REGULATORY AGENCIES & UTILITIES

ZONING DEPARTMENT:	CITY OF CROSS ROADS PERMITS & DEVELOPMENT 3201 US 380, STE 105 CROSS ROADS, TX 76227 CONTACT: RODNEY PATTERSON E: APPLICATIONS@CROSSROADSTX.GOV T: (940) 365-9693	BUILDING DEPARTMENT:	CITY OF CROSS ROADS PERMITS & DEVELOPMENT 3201 US 380, STE 105 CROSS ROADS, TX 76227 CONTACT: RODNEY PATTERSON E: APPLICATIONS@CROSSROADSTX.GOV T: (940) 365-9693	HEALTH DEPARTMENT:	CITY OF CROSS ROADS PERMITS & DEVELOPMENT 3201 US 380, STE 105 CROSS ROADS, TX 76227 CONTACT: RODNEY PATTERSON E:APPLICATIONS@CROSSROADSTX.GOV T: (940) 365-9693
FIRE DEPARTMENT:	FIRE & EMERGENCY MEDICAL SERVICES 3201 US 380, STE. 105 CROSSROADS, TX 76227 E: APPLICATIONS@CROSSROADSTX.GOV T: (214)975-0420	WATER UTILITY:	MUSTANG SPECIAL UTILITY DISTRICT 7985 FM 2931 AUBREY, TX 76227 CONTACT: EMILY SIMON T: (940) 440-9561 EXT. 500	SEWER UTILITY:	MUSTANG SPECIAL UTILITY DISTRICT 7985 FM 2931 AUBREY, TX 76227 CONTACT: EMILY SIMON T: (940) 440-9561 EXT. 500
NATURAL GAS UTILITY:	COSERV 7701 S. STEMMONS FWY CORINTH, TX 76210 E: DEVSERVICES@COSERV.COM T: (940) 321-7800	ELECTRICAL UTILITY:	COSERV 7701 S. STEMMONS FWY CORINTH, TX 76210 E: DEVSERVICES@COSERV.COM T: (940) 321-7800		

PROJECT INFORMATION

LANDLORD:	SAGE CROSSROADS, LLC 2410 POLK ST., SUITE 200 HOUSTON, TX 77003 CONTACT: ANDREA METZ E: ANDREAM@LOVETTCOMMERCIAL.COM T: (503)809-9149 O:(832) 533-5919	TENANT:	CHIPOTLE MEXICAN GRILL PO BOX 182566 COLUMBUS, OH 43218-2566 CONTACT: JENNIFER ABILEZ E: JABILEZ@CHIPOTLE.COM T: (210) 678-6672	ARCHITECT:	ROGUE ARCHITECTS 513 MAIN ST, #300 FORT WORTH, TX 76102 CONTACT: TAYLOR GRANDORF E: TAYLOR@ROGUEARCHITECTS.COM T: (817) 529-6882
MECHANICAL ELECTRICAL PLUMBING ENGINEER:	CASE ENGINEERING, INC 796 MERUS CT, ST. LOUIS, MO 63026 ELECTRICAL: BRIAN WOOD E: BWOOD@CASEENGINEERINGINC.COM T: (635) 349-1600 x376 MECHANICAL: JACK WIDIGER E: JWIDIGER@CASEENGINEERINGINC.COM T: (635) 349-1600 x349 PLUMBING: ANGELA KINDLE E: AKINDLE@CASEENGINEERINGINC.COM T: (635) 349-1600 x480			STRUCTURAL ENGINEER:	RUBIX CONSULTANTS 2216 W. LELAND AVE #1, CHICAGO, IL 60625 CONTACT: ASHIF PANAKKAT E: ASHIF@RUBIXC.COM T: (312) 602-5411

UTILITY COORDINATOR

NOTE to GC:
FOR ALL WATER, SEWER, NATURAL GAS, & ELECTRICITY UTILITIES CONTACT:

GAUCHER & ASSOCIATES INC.
SEASIDE, CA 93955
CONTACT: PAUL GAUCHER
E: PAUL@GAUCHERINC.COM
T: (831) 393-1760
F: (831) 393-2858

SIGN VENDOR

ADCON
3725 CANAL DRIVE
FORT COLLINS, CO 80524
CONTACT: KRISTI MARRIOTT
E: KMARRIOTT@ADCON-SIGNS.COM
T: (970) 472-2152

GRAPHIC SYMBOLS

- EXTERIOR ELEVATION MARKER (1 / A101 / 1)
- INTERIOR ELEVATION MARKER (1 / A101 / 1)
- SECTION MARKER (SIM / 1 / A101)
- SECTION / DETAIL (SIM / 1 / A101)
- VIEW LABEL (1 / A101 — View Name — View Scale)
- COLUMN GRID LABEL (0)
- ROOM NAME & NUMBER (Room name / 101)
- REVISION NUMBER (1)
- DOOR NUMBER (1i)
- MISCELLANEOUS EQUIPMENT NUMBER (XX.X)
- FURNITURE NUMBER (XX.X)
- KITCHEN EQUIPMENT NUMBER (XX.X)
- WASHROOM ACCESSORIES NUMBER (X)
- WALL TAG (W1)
- LEVEL TARGET
- NORTH ARROW
- DIMENSION TARGET
- FINISH TAG (P1)

ABBREVIATIONS

℄	CENTER LINE
(E)	EXISTING CONSTRUCTION
(N)	NEW CONSTRUCTION
@	AT
Ø	DIAMETER OR ROUND
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
ARCH	ARCHITECT(URAL)
ASS	ALARM SYSTEM SUPPLIER
BD	BOARD
BLDG	BUILDING
CMU	CONCRETE MASONRY UNIT
CO2	CO2 SUPPLIER
CO2AS	CO2 ALARM SUPPLIER
CS	CHEMICAL SUPPLIER
DIM	DIMENSION(S)
EA	EACH
EL	ELEVATION (VERTICAL HEIGHT)
ELEC	ELECTRIC(AL)
ELEV	ELEVATION
EQ	EQUAL
EXT	EXTERIOR
FC	FOR CONSTRUCTION
FRP	FIBERGLASS REINFORCED PANEL
FRT	FIRE RETARDANT-TREATED
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GYP	GYPSUM
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	HOOD SUPPLIER
HVAC	HEATING AND VENTILATING
ICP	INITIAL COST PROJECTION
IFP	IN FOR PERMIT
INT	INTERIOR
KES	KITCHEN EQUIPMENT SUPPLIER
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MSS	MUSIC SYSTEMS SUPPLIER
N.I.C.	NOT IN CONTRACT
NO	NUMBER
OC	ON CENTER
OSB	ORIENTED STRAND BOARD
POS	POINT OF SALE
PREP	PREPARATION
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
R	RADIUS
RTU	ROOF TOP UNITS
SIM	SIMILAR
SPS	SODA POP SUPPLIER
SS	SUPPORT SIGNAGE
STR	STRUCTURE
T	TENANT
TAB	TENANT'S TEST & BALANCE VENDOR
TBD	TO BE DETERMINED, SEE FIELD REFERENCE MANUAL
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
THS	TENANT'S HARDWARE SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TPS	TENANT PANELBOARD SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TS	TENANT'S SAFE SUPPLIER
TSS	TENANT'S SMART SAFE SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SUPPLIER
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SUPPLY
VAR	VARIES
VIF	VERIFY IN FIELD
W/	WITH
WA	WASHROOM ACCESSORIES
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	WATER HEATER SUPPLIER
WS	TENANT'S WINDOW SHADE SUPPLIER

STORE NUMBER: 5134

CROSS ROADS
11940 US HWY 380
CROSS ROADS, TX 76227

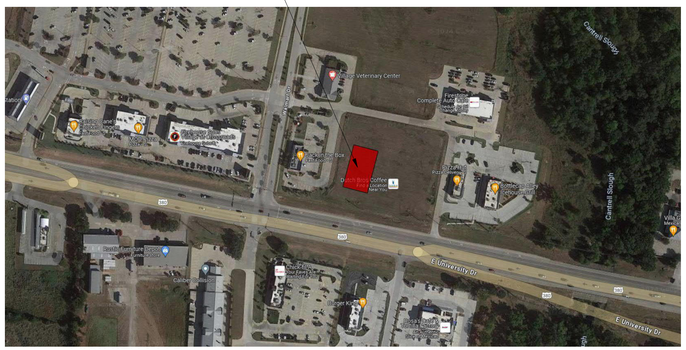
SCOPE OF WORK

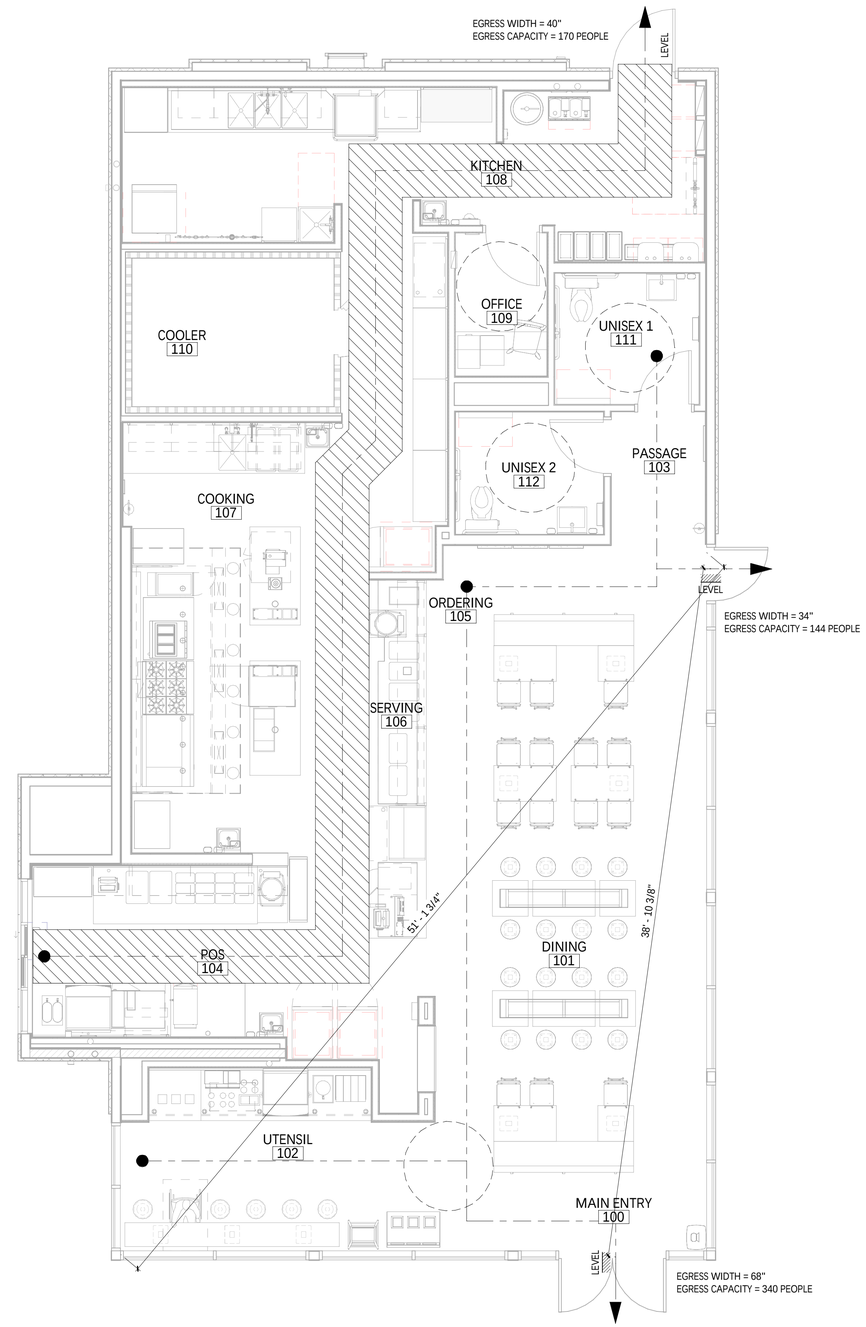
NEW FREESTANDING SHELL AND TENANT FINISH-OUT BUILDING

GROUP	TENANT	USE
PROPOSED USE:	CHIPOTLE MEXICAN GRILL	A-2

TDLR: TABS2024019584

VICINITY MAP


US HWY 380
E University Dr
Centred Slough
Dutch Bros Coffee
Chipotle Mexican Grill
Cross Roads Veterinary Center
Compass Pointe Apartments
Fairfield Inn & Suites
Cross Roads Dental Care
Cross Roads Family Dentistry
Cross Roads Family Practice
Cross Roads Pediatrics
Cross Roads Urgent Care
Cross Roads Eye Care
Cross Roads Chiropractic
Cross Roads Physical Therapy
Cross Roads Orthodontics
Cross Roads Medical Center
Cross Roads Surgery Center
Cross Roads Pharmacy
Cross Roads Fire Department
Cross Roads Post Office
Cross Roads Veterinary Clinic
Cross Roads Animal Hospital
Cross Roads Animal Clinic
Cross Roads Animal Care



1 G001 LIFE SAFETY PLAN
1/4" = 1'-0"

BUILDING CODE & ZONING DATA

1. OCCUPANCY GROUP: A-2
   OCCUPANCY SEPARATION REQUIRED: N/A
   OCCUPANCY SEPARATION PROVIDED: N/A
2. TYPE OF CONSTRUCTION: V-B
3. USE GROUP: A-2
   ALLOWABLE AREA: 6,000 S.F.
   AREA INCREASE W/ SPRINKLERS: N/A
   ACTUAL AREA: 2,325 S.F.
   TENANT LEASE AREA: 2,325 S.F.
4. ALLOWABLE NO. OF STORIES: 1
   ACTUAL NO. OF STORIES: 1
   ALLOWABLE BUILDING HEIGHT: 40'-0" MAXIMUM HEIGHT
   ACTUAL BUILDING HEIGHT: 20'-8"
5. CALCULATED OCCUPANT LOAD

DINING ROOM AND CIRCULATION	800 SF	/ 15 SF	=	54
KITCHEN-COMMERCIAL	1015 SF	/ 200 SF	=	6
RESTROOMS AND CIRCULATION	154 SF	/ 100 SF	=	2
TOTAL	1970 SF			61

POSTED OCCUPANT LOAD 99

SEATING:
INTERIOR: 42 SEATS
PATIO: 0 SEATS
TOTAL.: 42 SEATS

6. MEANS OF EGRESS REQUIRED: 2
   MEANS OF EGRESS PROVIDED: 3
7. FIRE SPRINKLERS: NONE
8. PLUMBING FIXTURES

	WATER CLOSETS		LAVORATORIES		URINALS	
	REQ'D	PROV'D	REQ'D	PROV'D	REQ'D	PROV'D
MEN'S:	1	1	1	1	0	0
WOMEN'S:	1	1	1	1	0	0

NOTE: RESTROOMS SHOWN AS UNISEX WITH TOTAL FIXTURE COUNTS MET.

CODE AUTHORITIES

BUILDING CODE:	2018 INTERNATIONAL BUILDING CODE
EXISTING BUILDING CODE:	2018 INTERNATIONAL EXISTING BUILDING CODE
MECHANICAL CODE:	2018 INTERNATIONAL MECHANICAL CODE
PLUMBING CODE:	2018 INTERNATIONAL PLUMBING CODE
ENERGY CODE:	2015 INTERNATIONAL ENERGY CONSERVATION CODE
FUEL GAS CODE:	2018 INTERNATIONAL FUEL GAS CODE
ELECTRICAL CODE:	2017 NATIONAL ELECTRIC CODE
FIRE CODE:	2018 INTERNATIONAL FIRE CODE
ACCESSIBLITY:	2012 TAS
FOOD/RESTAURANT CODE	2018 FOOD CODE

EGRESS SEPARATION NOTE

OVERALL DISTANCE:	51'-1 3/4"
REQUIRED SEPARATION:	25'-6 3/4" (NON-SPRINKLERED)
PROVIDED SEPARATION:	38'-10 3/8"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · TAYLOR R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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11940 US HWY 380
CROSS ROADS, TX 76227

Issue Record:
05/30/24 COMBINE PERMIT SET

Revisions:
1 07/14/24 REVISION 01

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

Contents:
PROJECT DATA & LIFE SAFETY PLAN

G001

CHAPTER 3: BUILDING BLOCKS

302 Floor or Ground Surfaces

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture.

Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed exposed edge. Carpet edge trim shall comply with 303.

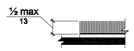


Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

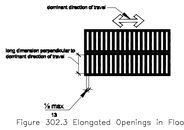


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.



Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

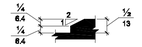


Figure 303.3 Beveled Change in Level

304 Turning Space

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

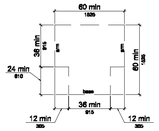


Figure 304.3.2 T-Shaped Turning Space

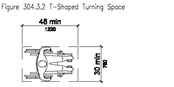


Figure 305.3 Clear Floor or Ground Space

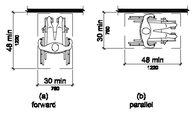


Figure 305.5 Position of Clear Floor or Ground Space

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

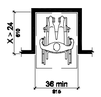


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

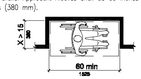


Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

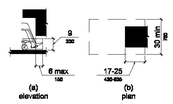


Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

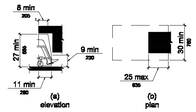


Figure 306.3 Knee Clearance

307 Protruding Objects

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

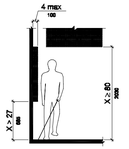


Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

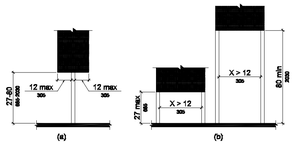


Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

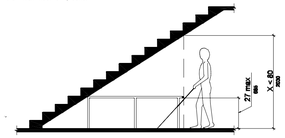


Figure 307.4 Vertical Clearance

308 Reach Ranges

Children's Reach Ranges

Forward or Side Reach	High (maximum)	Low (minimum)
Ages 3 and 4	36 in (915 mm)	20 in (510 mm)
Ages 5 through 8	40 in (1015 mm)	18 in (455 mm)
Ages 9 through 12	44 in (1120 mm)	16 in (405 mm)

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

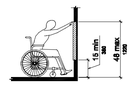


Figure 308.2.2 Obstructed High Forward Reach

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

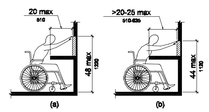
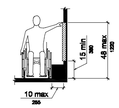


Figure 308.3.1 Unobstructed Side Reach

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.



308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

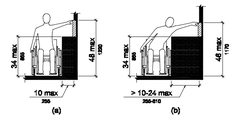


Figure 308.3.2 Obstructed High Side Reach

309 Operable Parts

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

CHAPTER 4: ACCESSIBLE ROUTES

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

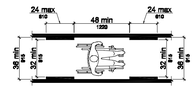


Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

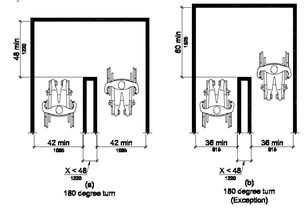


Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum.

404 Doors, Doorways, and Gates

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

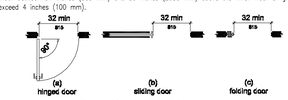


Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

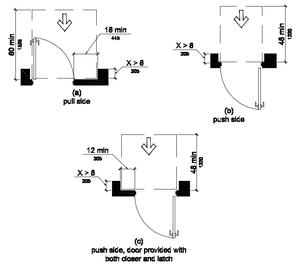


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

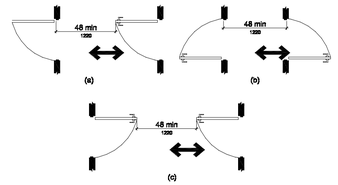


Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.

2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.

404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

405 Ramps

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

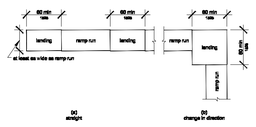


Figure 405.7 Ramp Landings

405.7.1 Slope. Landings shall have slope no steeper than 1:48. Changes in level are not permitted.

405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum.

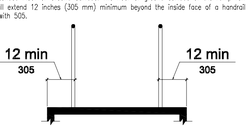
405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.

405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.

405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.



405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

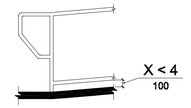


Figure 405.9.2 Curb or Barrier Edge Protection

406 Curb Ramps

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

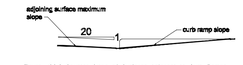


Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

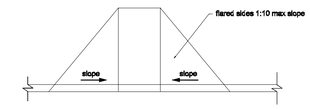


Figure 406.3 Sides of Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

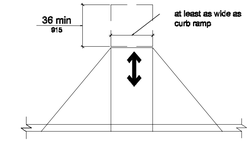


Figure 406.4 Landings at the Top of Curb Ramps

406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

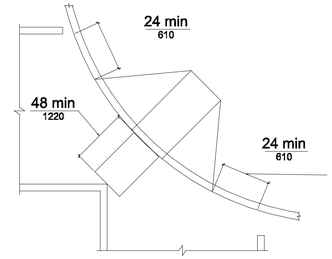


Figure 406.6 Diagonal or Corner Type Curb Ramps

406.7 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be permitted to overlap.

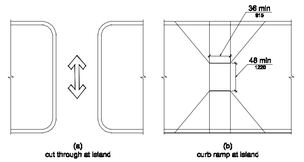
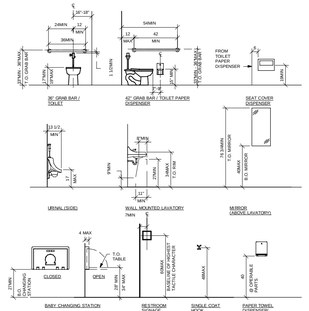


Figure 406.7 Islands in Crossings



ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · KEVIN R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

1	

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

Contents:
ACCESSIBILITY REQUIREMENTS

G002

EXHIBIT C

LANDLORD'S WORK

[NOTE: Tenant to provide remainder of Work Letter related to the drive-thru lane; Work Letter to be cleaned up prior to Lease execution]

EXHIBIT C – LANDLORD WORK LETTER

Landlord, at its sole cost and expense, shall provide the following items:

INTERIOR	
Selective Demolition [IF APPLICABLE – ONLY USE FOR AN EXISTING BUILDING]	NA
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Surface Prep [USE FOR NEW BUILDING]	**Surface Prep:** Prepare impacted areas and surfaces to a condition ready to receive Tenant's construction. Interior spaces shall be left in a "broom clean" condition.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Electrical Service: Acceptable ☐	Landlord shall furnish and install one code-compliant 800 amp, 120/208 volt, 3-phase, 4-wire metered service capable of supplying 280 KVA brought to 800 amp fused disconnect switch (to be NEMA 3R rain tight in exterior installations) or 800 amp circuit breaker. Any related electric utility company charges shall be paid by Landlord. Landlord shall provide one code-compliant set of 800A copper THHN conductors with a maximum overall voltage drop from transformer secondary of 2% from main disconnect to Tenant's panel board location within the Premises as determined by Tenant in accordance with Tenant's plans for the Premises. Electrical Conduits in Exposed Ceiling: All Landlord's base building wiring running through Tenant's exposed ceiling shall be encased in EMT or IMC conduit, run tight to the deck and be either parallel

	or perpendicular to the main entry storefront. There shall be no diagonal runs or and all conduits shall be in straight lines. There shall be no surface mounted conduit on walls.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Electrical: Acceptable ☐	**Electrical Panels:** Tenant shall supply and install Tenant's panels and Landlord shall provide a credit of: CREDIT SHOULD BE $33,000.00 **Metering:** Landlord shall provide **metered** service and disconnect for Tenant's use only. Landlord shall clearly identify and label Tenant's service meter w Tenant's name. Tenant service shall be metered; as required by local utility company and capable of recording instantaneous kilowatts, kilowatt-hours, and peak demand. The preferred location for the meter is on the exterior of the building adjacent to the delivery door, hidden from public view. **Temporary Power:** If permanent electrical service is not available on the delivery date as defined in the lease, temporary service shall be provided by the Landlord. Provide service required for construction operations, with branch wiring and distribution boxes located to allow service and lighting by means of construction-type power cords. Landlord shall provide additional temporary lighting for construction operations.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Fire Alarm: Acceptable ☐	If required by Code or local authority having jurisdiction for Tenant's intended use, the Landlord shall furnish and install one main Fire Alarm Control Panel per Tenant's plans and specifications for the shell building with sufficient capacity to serve the Tenant's needs (to be located in a shared dedicated common area within the shell building OR at a location otherwise approved by Tenant). The Landlord's main FACP shall be capable of accommodating and connecting to the Tenant's fire alarm system as required by the local jurisdiction for Tenant's use. Landlord shall provide a 1" min. EMT conduit (with pull string) to be routed from the main FACP to the Tenant's leased Premises at a location in accordance with the Tenant's plans. Landlord shall provide Tenant with monitoring company contact information or codes as needed to complete installation of Tenant's fire alarm system.

Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Fire Sprinkler: Acceptable ☐	If required by Code or local authority having jurisdiction, Landlord shall Furnish and install a fire sprinkler system to meet applicable governmental ordinances for the intended use of Tenant as anticipated by the Lease. Landlord to coordinate main and branch line locations so as not to conflict with Tenant's future roof mounted equipment, curbs, and penetrations. Sprinkler system riser assembly to be located in a dedicated common area within the shell building as approved by Tenant. System must be pressure tested, fully operational, inspected and approved by the local authority having jurisdiction. System must include flow and tamper devices, fire alarm disconnects, and back flow prevention as required. Modifications to said system shall be at Tenant's expense. All related tap, impact, system development, fixture and/or any similar charges or fees shall be paid by Landlord.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Water and Irrigation: Acceptable ☐	• Landlord shall furnish and install a separately metered and insulated 1.5" or greater dedicated domestic copper water supply line supplying minimum of 45 gallons per min at 60 psi, routed to a location within the Premises as determined by Tenant in accordance with Tenant's plans for the Premises. • Landlord shall provide proof of delivery pressure (gauge) at possession and provide and install a booster pump at Landlord's expense if water pressure is unable to be provided at minimum of 60 psi. Booster pump shall be located in a mutually agreed upon location where the unit can be properly maintained and serviced by Landlord. • Landlord shall furnish and install One [1] certified & tested backflow preventer with protective enclosure and shut-off ball valve for Tenant's Premises. Backflow prevention assembly shall provide maximum water pressure drop of 15 psig (pounds per square inch gauge). Landlord shall provide the BFP in a location approved by Tenant and shall include a locking cage if located on the exterior of the building. • All related tap, impact, system development, fixture and/or any similar charges or fees shall be paid by Landlord. • Any exposed water lines should be run tight to the bottom of roof deck.

	• Landlord shall furnish and install keyed, frost-free recessed exterior hose bibs per Tenant's design/construction documents, including a hose bib that is Tenant accessible on the roof.. The hose bib must be connected to 1/2" insulated copper pipe and run within the conditioned space. It must be exposed and visible for tenant's connection. • If permanent utility service is not available at the scheduled delivery date as defined in the Lease, temporary service must be provided by Landlord. • Furnish and install a separately metered 3/4" or greater dedicated irrigation water supply line to support irrigation system and landscape design. Irrigation equipment, including meters and backflow preventers, shall be located outside the demised premises where allowed by the jurisdiction.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Storm Water Management: Acceptable ☐	**System:** If required by local law, Landlord to provide a subsurface storm water retention system to accommodate Tenant's building configuration, site circulation, patio, site amenities, and jurisdictional requirements as defined in the Tenant's approved site plan. **Downspouts:** Coordinate location of roof and canopy downspouts with Tenant's approved site plan. No direct discharge to sidewalks, drive thru lanes, patio, or landscaping are permitted.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Sanitary Sewer: Acceptable ☐	Landlord shall furnish and install two (2) four-inch minimum PVC sanitary sewer lines with minimum invert elevation of 48 inches, one line leading to a code-compliant grease interceptor (which Landlord shall furnish and install with a minimum capacity of 1,500 gallons or sufficient to meet local code for Tenant's exclusive use) with invert elevation as necessary to accommodate grease interceptor installation requirements of Tenant, and one line bypassing the grease interceptor with minimum invert elevation of 48 inches that connects to the main sanitary sewer system for the building OR the local municipal system. Grease interceptor system to be vented as required by Code. Landlord to provide proof (including but not limited to camera scope, pressure test certification, etc.) that the system being provided is functional and free from defects (dips, cracks, clogs, etc.). Both sewer lines shall be brought to a location within the Premises, as determined by Tenant in accordance with Tenant's plans for the Premises. The grease interceptor installation shall be a minimum of 50-feet away from tenant's main entry doors and patio seating. All related tap, impact, system development, fixture and/or any similar charges or fees shall be paid by Landlord.

	Septic systems or similar drainage systems are not acceptable.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Telephone/IT: Acceptable ☐	Landlord shall provide the following: a. Landlord shall install a (two) 2" conduit with pull string routed from the property's joint telephone point of demarcation to a location within the Leased Premises in accordance with the Tenant's plans. b. Landlord shall install a 2" conduit with pull string routed from the property's joint ISP point of demarcation to a location within the Leased Premises in accordance with the Tenant's plans. c. If existing facilities from current telecom or data/ISP provider(s) are full, Landlord agrees to pay for the expansion of segregated facilities for Tenant's use. d. Landlord shall provide 12 pairs (16 pairs if the local jurisdiction requires dedicated Fire Alarm lines) run to building DMARC that are available for Tenant's sole use (tagged and reserved). e. Landlord shall provide one 120/208 duplex outlet to be located within 6 feet of the DEMARC block location. If DMARC is installed on the exterior of the building, a weatherproof outlet and cover shall be provided. f. Landlord shall provide electrical grounding components for the phone system per local Codes and the Local Exchange Carrier's requirements. g. Landlord shall provide appropriate infrastructure from common service entrance to Tenant's leased Premises in order for Tenant to provision high speed broadband access, per FCC guidelines (100M/10M). h. If there is no connectivity available, the Landlord will provide necessary infrastructure for the ISP of Tenant's choosing to install high speed broadband access to the leased Premises. i. The Landlord agrees to allow Tenant to install conduit and or other service entrance facilities to extend the external DMARC into Tenant's leased Premises. j. If, in the case that sufficient bandwidth is not present with existing telecom facilities, Landlord shall allow alternate ISP(s) to access Premises to provide high speed broadband access. k. If, in the future, Tenant deems an ISP change is necessary, the Landlord shall provide right of entry (ROE) for the installation of new circuits that meet the requirements of the Tenant. l. If new circuits are required for adequate connectivity, Landlord shall review and approve the SOW related to the addition with carrier and/or installer m. If the cellular backup signal is not sufficient in the space, the Landlord will allow Tenant to install additional cellular equipment or facilities for backup connectivity (i.e. - external cellular antenna, secondary ISP, etc.).
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Roof Screening: Acceptable ☐	Landlord shall furnish and install all required screening for Tenant's standard rooftop-mounted equipment sufficient to meet applicable local covenants, codes and ordinances for Tenant's intended use. Structural supports for roof screening (non-parapet), shall be coordinated with Tenant's plans, so as not to conflict with Tenant's roof-top equipment and curbs.

Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Roof Drains and Scuppers: Acceptable ☐	Landlord to furnish and install roof drains and scuppers for shell building so as not to conflict with Tenant's intended exits as located on Tenant's approved floor plan. Interior drain piping shall be insulated and be run as tight to roof deck as possible while maintaining required slope.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Roof Insulation: Acceptable ☐	Landlord shall furnish and install exterior roof insulation on the exterior side of the roof sheathing to meet local Codes for Tenant's intended use. Landlord to provide Tenant the name of Landlord's roofing contractor and warranty information when requested. Landlord to remove and patch roof for existing mechanical curbs not required for Tenant's use. Roof and/or shell must have insulation to meet local code for Tenant's use and specification per tenant's plans. Roof will be fully adhered thermoplastic membrane (PVC) system with rigid insulation.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Roof Access: Acceptable ☐	Landlord shall furnish and install a permanent, code compliant and OSHA-approved roof access system for Tenant's use (including extendable roof hatch pole as applicable to the design of the roof ladder). Landlord shall supply Tenant with a key and/or 24-hour access to such roof access system.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Trash and Waste: Acceptable ☐	Provide a convenient well lit (see "Site Lighting" requirements set forth below) area located within reasonable proximity to the Premises (the location of such area is to be shown on an exhibit to be attached to the lease) for a code compliant trash and waste enclosure to be constructed by Landlord for Tenant's exclusive use. There shall be a clear wheel-able path from the rear door to the trash enclosure without any obstructions or curbs. Said enclosure shall be constructed in accordance with applicable laws and comply with any access, height, drainage and/or other requirements of the jurisdictional zoning, sewer and waste removal authorities, as well as any access, vertical clearance (minimum 20'-6") and/or other requirements of the vendor(s) providing waste removal services for Tenant's trash and waste. Such area and enclosure shall be constructed by Landlord per attached exhibit (*which shall be an exhibit to the Lease) and meet at least the following criteria, or such additional criteria as may be required by applicable law: A.

	14'-0" deep x 20'-0" wide x 6'-8" high enclosure to house: (i) an eight (8) cubic yard trash dumpster for Tenant's exclusive use (such dumpster shall be no less than 6' x 6'): (ii) at least a 5'-0" x 4'-0" grease receptacle area for Tenant's exclusive use (such receptacle area shall be no less than 5'-0" x 4'-0"); (iii) an eight (8) cubic yard cardboard dumpster for Tenant's exclusive use (such dumpster area shall be no less than 6'-0" x 6'-0"; (iv) two recycle toters which area shall be no less than 2'-11" x 5'-0"; (v) three compost toters which area shall be no less than 2'-11" x 7'-8". Trash enclosure gates and hinge columns for trash enclosure shall not reduce or encroach on the applicable clear opening area. For trash enclosures housing multiple Tenants exclusive dumpsters, Landlord shall provide adequate signage indicating Chipotle's designated trash area.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Canopies: Acceptable ☐	Furnish and install all canopies per Tenant's prototypical plans and provided by American Products Inc. (API) or Tenant approved alternate supplier. Installation will include exterior building lighting integral to the canopies.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Storefront: Acceptable ☐	Furnish and install Charcoal Permafluor glazing system by Kawneer Aluminum or Tenant approved alternate supplier with clear insulated Low E glass (to meet local requirements) and wide stile, single-acting, insulated double entry doors (6'-0" x 7'-0") and one (1) wide stile, single-acting, insulated door (3'-0" x 7'-0") for egress or patio access. The final locations of the doors shall be in accordance with Tenant's approved floor plan for the Premises. All hardware for all exterior doors shall be in accordance with Tenant's specification for the project; including but not limited to: door hinges, panic hardware, threshold, sweeps, stops, and cylinder core. If an impact-rated glazing system is required by code, Landlord shall provide such system. Safety glazing will be installed as required per local adopted codes.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Walls: Acceptable ☐	Furnish and install all exterior wall assemblies to meet local code for tenant's use. All exterior and demising walls shall have insulation and 5/8" gypsum board Type (X) to meet all local codes. All walls shall be rated assemblies where required by local codes with the interior finished to Level 4 from floor to the underside of the roof deck ready to accept tenant finishes. If required by the local jurisdiction to obtain a certificate of occupancy, the Landlord shall complete the wall assembly by finishing the opposite side of the wall in accordance with

	applicable codes.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Rear Door: Acceptable ☐	Furnish and install a 3'-6" hollow-metal rear door with hardware in accordance with Tenant's plans and specifications for the Premises; including but not limited to hinges, threshold, panic devices, peep hole, sweep, weather stripping, drip edge, stop, and cylinder. The final location of the rear door and its hardware shall be in accordance with Tenant's approved floor plan for the Premises. There shall be a clear wheel-able path from the rear door to the trash enclosure without any obstructions or curbs.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Floor: Acceptable ☐	Landlord agrees to compact the exposed sub-grade of the Premises floor to a condition acceptable to Tenant and give Tenant a credit of $10 per square foot for the concrete slab. The credit includes costs related to the concrete, reinforcement materials, dowel connections to existing slab areas, sub-slab insulation to meet energy code , and vapor intrusion materials. Construction and installation of slab, and associated details, are to follow the drawings and details provided by the Landlord's shell architect. Compaction will be as follows: a. andlord shall complete compaction of the Premises in accordance with the appropriate engineering standards and building code requirements, so that the building pad shall be graded within 1/10 of a foot of the finished floor grade elevation of Tenant's Building [BASED UPON FINAL GRADING PLAN MINUS THE THICKNESS OF THE SUBGRADE AND FINISH MATERIALS], but in no event less than ninety-five percent (95%) of the modified proctor soil test for water content and compaction levels ("Modified Proctor"), so as to enable Tenant to construct its improvements in accordance with its plans, with spread footings and without necessity of pilings or other extraordinary foundation work. The premises soil shall have a minimum bearing capacity of 2,500 pounds per square foot. b. ll fill material shall be of select grade and sources for acquisition of fill material, as well as locations for cut material, must be identified. c. andlord shall at its expense have an independent professional soils engineering test laboratory monitor the preparation of the Premises and, upon completion of Landlord's work, Landlord shall furnish Tenant a written certification from such independent

ARCHITECT OF RECORD

ROGLIE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · WILSON R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182566
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STORE NO.: 5134
CROSS ROADS
11940 US HWY 380
CROSS ROADS, TX 76227

Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

Contents:
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G003

	laboratory verifying compliance with the foregoing requirements of this section. This certification shall include the results of all compaction and other tests performed prior to the date of such certification. A copy of such certification shall be delivered to the Tenant's construction representative.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
HVAC: Acceptable ☐	Landlord shall provide a CREDIT for: One (1) nominal ton of cooling capacity per 125 square feet in high efficiency, [gas – delete if no gas hookup/]electric RTU's with standard distribution and ducted return, programmable thermostats with locking covers at $2,200.00 per ton.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Mechanical Equipment: Acceptable ☐	Landlord agrees that Tenant shall have right to install Tenant's mechanical equipment and associated curbs per tenant's plans upon roof or at another functionally appropriate location on or about premises as is necessary and typical for restaurant use. The Landlords roof must be able to accommodate the following: i. VAC RTUs (2,500 lbs. each) ii. akeup Air Unit (800 lbs.) iii. rease Exhaust fan (400 lbs.) iv. rease Exhaust hood (1,400 lbs.) v. alk-In Condensing Unit (300 lbs.) vi. ce Machine Condensing Units (2 at 100 lbs. each) vii. estroom Fan (100 lbs.)
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Patio: Acceptable ☐	Furnish and install the concrete slab on a single plane for the patio in accordance with local code and Tenant's plans. The Patio shall have a 4' landscape buffer between itself and any driving surfaces. The patio shall be lit by a minimum of five (5) foot-candles by recessed or architecturally integrated building lights. When applicable Tenant will have the right to install additional pole mounted lights at the patio. The Landlord will coordinate the location of these lights with the Tenant ensuring appropriate conduit with pull string are supplied for future power by Tenant. Patio area will slope away from the Building with grade no less than 1.5% and no more than 2% with control joints every twelve (12) feet each direction. Landlord shall obtain Patio Permit if required by the local jurisdiction. Landlord shall purchase and install Tenant's patio railing per

	Tenant's plans.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Barrier Free Design: Acceptable ☐	Landlord's work outside of Tenant's limit line to comply with A.D.A. (and California Title 24 where applicable) for the entire site and shall make any and all improvements including ramps as may be required for compliance thereto at Landlord's expense. Landlord shall immediately remedy any deficiencies found which directly affect access to the Tenant's premises. Exiting, egress, and common pathways shall include exterior lighting to provide adequate and safe foot candle levels acceptable to Tenant at all locations (including the trash enclosure area) and shall meet all local Codes for Tenant's use.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Staging Area: Acceptable ☐	Landlord shall designate and allow to be fenced a construction staging area or other suitable arrangements as may be acceptable, adjacent to Tenant's premise and shall permit Tenant's Contractor at its expense to place a temporary trailer on site for the purpose of housing temporary construction office activities and storage facilities including space for a 40 yard dumpster and one temporary storage container to be used during the course of Tenant's construction activities.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Temporary Signs: Acceptable ☐	Landlord shall permit Tenant to place temporary signage or banners upon the building or site fencing to indicate the Tenant's impending occupancy of the premises, during the period from the commencement of construction of the Landlord's building shell until opening of the restaurant and grand opening signage from the Tenant's grand opening until 30 days after grand opening. All signage shall be in conformance with jurisdictional requirements and subject to Landlord's approval.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Directional Signage: Acceptable ☐	Landlord shall provide an area for Tenant's installation of pickup parking signs, at a location mutually approved by Landlord and Tenant.
Projected Complete:	**Actual Complete:**

Not Acceptable ☐	**Chipotle Comments:**
Monument/Pylon Signage: Acceptable ☐	Landlord shall furnish and install monument signage for Tenant's installation of Tenant's sign panels. Landlord shall provide the monument sign structure (frame, footings, and foundations as required), applicable sign finishes (including monument base materials), and power for the sign. Tenant shall obtain Landlord and local municipal approval for Tenant's sign panels.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Union Labor: Acceptable ☐	Landlord shall communicate any union labor requirements related to the building site to the Tenant during the lease negotiation process. In the instance of site related labor disputes between union and non-union forces outside of Tenant's control, Landlord shall provide a two gate system for site access.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Hazardous Materials: Acceptable ☐	Landlord shall test for and abate asbestos, lead based paint and /or any other hazardous material determined to be present. Said testing and abatement shall occur prior to Tenant's possession acceptance of Premises and Tenant shall receive a copy of any testing reports, as well as any abatement reports and disposal manifests for any abatement performed. Landlord shall immediately work to abate any additional asbestos and/or hazardous materials discovered during Tenant's construction activities, so as to minimize the impact upon the Tenant's construction schedule.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Shafts and Enclosures: Acceptable ☐	If necessary due to multi-level building, Landlord shall furnish and install a ductwork path and access thereto approved by Tenant for Tenant's kitchen hood exhaust system. Landlord shall cause any rated assemblies provided by Landlord to be permitted by appropriate jurisdiction and constructed in compliance with all applicable governmental codes for Tenant's intended use. If applicable, Landlord shall install a code compliant welded black iron duct with appropriate cleaning ports (in common areas and accessible by Landlord and Tenant), which shall be successfully water tested and certified to be leak-free by a company approved by Tenant prior to Possession. When applicable, Landlord shall assist Tenant in coordinating access to other building areas outside of the Tenant's premises for Tenant's construction activities related to black iron and other mechanical modifications or alterations.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**

Special Provisions: Acceptable ☐	a. andlord shall Treat for and exterminate any infestation of rodents, termites, carpenter ants or other insects or growths. b. andlord shall provide for repair of damage caused by any such infestation. c. andlord shall provide weekly progress updates and photos of Landlord's Work from ground break through completion of the same (provided, however, that no updates shall be necessary from and after the date of Tenant's entry to the Premises too begin Tenant's construction).
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
EXTERIOR	
Parking Area: Acceptable ☐	Furnish & install all site plan improvements in accordance with Landlord's plans as approved by Tenant & all jurisdictional requirements. Scope of work includes all required conditional use permits, variances, and drive-thru jurisdictional approvals when applicable. Furnish & install bollards per Chipotle's specifications and plans. Provide parking field striping, pavement markings, & directional wayfinding per jurisdictional requirements. Provide all required ADA markings & signage per jurisdictional requirements. Provide wheel stops at all parking spaces adjacent to the patio area or sidewalk. Furnish & install a bike rack for the premises as specified by Chipotle if required by local code. In locations where parking lots & striping exist, Landlord shall reconfigure traffic flow, field striping as needed for access.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Drives/Curbs/ Sidewalks: Acceptable ☐	Landlord shall provide & install all sidewalks & curbs as needed to allow circulation throughout the site for Tenant's use in accordance with Landlord's plans as approved by Tenant. Sidewalks should slope away from the building's entry / exit points & storefronts. All curbs & gutters are to be formed concrete. Landlord to provide all paving on the premises surrounding the building area per jurisdictionally approved civil engineering drawings.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Landscaping: Acceptable ☐	All proposed landscaped areas shall follow local jurisdictional requirements, should have proper drainage and be irrigated by an automated irrigation system. Landlord shall furnish and install an

	automated irrigation system that includes a dedicated master shut-off valve, a pressure regulator, a backflow prevention device, and a time-clock based controller with a moisture or rain sensor. Controls & valves must be accessible by Chipotle for any Chipotle dedicated landscaped areas. Irrigation system should be separately metered (refer to 'water' section for additional information)
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Building Shell: Acceptable ☐	When applicable, Landlord shall be responsible for the repair / replacement of any damaged structural building and/or site elements.
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
Other Site Work: Acceptable ☐	Landlord shall be responsible for all other site work outside of the building including but not limited to: curb and gutter, stone and asphalt paving, concrete trash enclosure pad & apron, parking lot striping, and parking stall wheel stops adjacent to sidewalks or patio. Site Lighting: Landlord shall be responsible for site lighting including but not limited to parking lot lighting illuminating the entire site and landscaping per specifications below: - Average maintained illumination level of not less than five (5) foot candles in areas surrounding pickup window and patio - Average maintained illumination level of not less than three (3) foot candles in trash enclosure - Average maintained illumination level of not less than one and a half (1.5) foot candles surrounding building - Average maintained illumination level of not less than one (1) foot candles in parking and drive aisles
Projected Complete:	**Actual Complete:**
Not Acceptable ☐	**Chipotle Comments:**
MISCELLANEOUS	
Base Building Certificate of Occupancy	☐ **YES** ☐ **NO**

Chipotle Comments:	

BUILDING POSSESSION & ACCEPTANCE

Section 1 - Chipotle ☐ DOES ☐ DOES NOT accept the Premises per the comments listed.

Chipotle Comments: _____

Section 2 - Chipotle ☐ DOES* ☐ DOES NOT agree to take Conditional Delivery to commence improvements in the Premises per the comments listed, however, this shall NOT be deemed "POSSESSION DATE" per the Lease and below. **[NOTE: this section is not applicable if the "Does" box is checked in Section 1]**

Chipotle Comments: _____

*** Landlord is hereby advised that Landlord's delivery obligations under the Lease have not been completed in accordance with the terms thereof. Therefore, while Chipotle is amenable to commencing its improvements in the Premises, Chipotle's commencement of such improvements shall not: (a) affect the timing of the occurrence of the Possession Date (or other comparable terminology as defined in the Lease); (b) be deemed to be Tenant's acceptance of the Premises; or (c) release Landlord from any of Landlord's obligations under the Lease, including but not limited to, Landlord's obligations with respect to Landlord's Work.**

Possession Date per Lease: _____ **Possession Date:** _____

IN THE EVENT OTHER DEFICIENCIES OR DEFECTS IN LANDLORD'S WORK ARE HEREAFTER DISCOVERED, CHIPOTLE RESERVES THE RIGHT TO MAKE ADDITIONS AND/OR REVISIONS TO THIS REPORT. FURTHER, BY COMPLETING THIS REPORT, CHIPOTLE IS NOT WAIVING ANY RIGHTS OR REMEDIES IT MAY HAVE AT LAW, IN EQUITY OR AS SET FORTH IN THE LEASE.

SIGNATURES

Landlord Agent: _____

Chipotle Representative: _____

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · TRAVIS R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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STORE NO.: 5134
CROSS ROADS
11940 US HWY 380
CROSS ROADS, TX 76227

Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

Contents:
WORKLETTER

G004

COMcheck Software Version 4.1.5.3
Envelope Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: CHIPOTLE #5134 CROSS ROADS, TX SHELL
Location: Aubrey, Texas
Climate Zone: 3a
Project Type: New Construction
Vertical Glazing / Wall Area: 24%

Construction Site:
1194O US HWY 380
CROSS ROADS, TX 76227

Owner/Agent:

Designer/Contractor:
TAYLOR GRANDORF
ROGUE ARCHITECTS
513 MAIN STREET
SUITE 300
FORT WORTH, TX 76102
817-529-6882
TAYLOR@ROGUEARCHITECTS.COM

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
High Performance SWH, 1.0 credit

Building Area	Floor Area
1-Dining: Cafeteria/Fast Food : Nonresidential	2349

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Floor 1: Slab-On-Grade:Unheated. [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (d)	227	---	---	0.730	0.730
Roof 1: Other Insulation Above Deck: High Albedo Roof Required, 3-Year-Aged Solar Reflectance Index = 88.00, Thermal Emittance = 0.75 (e), [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	2312	---	---	0.039	0.039
NORTH					
Exterior Wall 3: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	732	20.0	0.0	0.064	0.064
Window 3: Metal Frame:Fixed, Perf. Specs.: Product ID N/A, SHGC 0.33, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	8	---	---	0.500	0.460
Door 1: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	28	---	---	0.400	0.610
EAST					
Exterior Wall 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	1055	20.0	0.0	0.064	0.064
Window 5: Metal Frame:Fixed, Perf. Specs.: Product ID Kawneer 601T, SHGC 0.25, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	356	---	---	0.400	0.460
Door 3: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	22	---	---	0.830	0.770
SOUTH					

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Exterior Wall 2: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	536	20.0	0.0	0.064	0.064
Window 4: Metal Frame:Fixed, Perf. Specs.: Product ID Kawneer 601T, SHGC 0.25, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	274	---	---	0.500	0.460
Door 2: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	42	---	---	0.830	0.770
WEST					
Exterior Wall 4: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	1242	20.0	0.0	0.064	0.064
Window 1: Metal Frame:Operable, Perf. Specs.: Product ID QUIKSERV, SHGC 0.25, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	43	---	---	0.650	0.600
Window 2: Metal Frame:Fixed, Perf. Specs.: Product ID Kawneer 601T, SHGC 0.25, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	72	---	---	0.500	0.460

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) 'Other' components require supporting documentation for proposed U-factors.
(c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(d) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.
(e) High albedo roof requirement options: 1) 3-year aged solar reflectance index >= 55.0 thermal emittance >= 0.75, 2) 3-year aged solar reflectance index >= 64.0, 3) Initial year aged solar reflectance >= 0.70 thermal emittance >= 0.75, 4) Initial year aged solar reflectance index >= 82.0.

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in *COMcheck* Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Sharron Clark - PCII — Sharron Clark — 05/28/24
Name - Title — Signature — Date

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: CHIPOTLE 5134
Project Type: New Construction

Construction Site:
US Highway 380 & Walmart Dr
Cross Roads, Texas 76227

Owner/Agent:

Designer/Contractor:
Matthew Case
CASE ENGINEERING
796 MERUS CT.
ST. LOUIS 63026
636.349.1600
bwood@caseengineeringinc.com

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-KITCHEN (Common Space Types:Food Preparation)	552	1.21	668
2-DINING (Common Space Types:Dining Area - Family Restaurant)	852	0.89	758
3-OFFICE (Common Space Types:Office - Enclosed)	45	1.11	50
4-SERVING (Common Space Types:Food Preparation)	323	1.21	391
5-RESTROOMS (Common Space Types:Restrooms)	125	0.98	122
		Total Allowed Watts =	1989

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-KITCHEN (Common Space Types:Food Preparation)				
LED 6: A1: LED Panel 70W:	1	9	30	270
2-DINING (Common Space Types:Dining Area - Family Restaurant)				
LED 8 copy 4: B1: LED PAR 20W:	1	4	17	68
LED 8 copy 2: B2: LED PAR 20W:	1	2	17	34
LED 8 copy 3: B3: LED PAR 20W:	1	4	12	48
LED 1 copy 2: C2: LED Linear 8W:	1	4	12	48
LED 1 copy 3: C3: LED Linear 8W:	1	5	15	75
LED 1 copy 5: C4: LED Linear 8W:	1	12	18	216
Track lighting 1: TCL-05/TCL-2: Wattage based on current limiting device capacity	0	0	360	360
LED 12: P5: Other:	1	2	5	10
LED 12 copy 1: P6: Other:	3	3	48	144
3-OFFICE (Common Space Types:Office - Enclosed)				
LED 6 copy 1: A1: LED Panel 70W:	1	1	30	30
4-SERVING (Common Space Types:Food Preparation)				

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
5-RESTROOMS (Common Space Types:Restrooms)				
LED 8: B1: LED PAR 17W:	1	23	17	391
LED 1 copy 3: C2: LED Linear 8W:	1	1	12	12
LED 1 copy 4: C3: LED Linear 8W:	1	5	15	75
Compact Fluorescent 2: J4: Triple 4-pin 32W: Dimming:	1	1	9	9
5-RESTROOMS (Common Space Types:Restrooms)				
LED 8 copy 1: B1: LED PAR 17W:	1	6	17	102
			Total Proposed Watts =	1892

Interior Lighting PASSES: Design 5% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in *COMcheck* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Matt Case — Signa — 07/01/24
Name - Title — Date

COMcheck Software Version COMcheckWeb
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: CHIPOTLE 5134
Project Type: New Construction
Exterior Lighting Zone 2 (Residential mixed use area (LZ2))

Construction Site:
US Highway 380 & Walmart Dr
Cross Roads, Texas 76227

Owner/Agent:

Designer/Contractor:
Matthew Case
CASE ENGINEERING
796 MERUS CT.
ST. LOUIS 63026
636.349.1600
bwood@caseengineeringinc.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	5292 ft2	0.06	Yes	318
Drive-up windows/doors	1 windows	400	No	400
Driveway	4289 ft2	0.06	Yes	257
		Total Tradable Watts (a) =		575
		Total Allowed Watts =		975
		Total Allowed Supplemental Watts (b) =		600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Parking area (5292 ft2): Tradable Wattage				
LED 3: LED Roadway-Parking Unit 54W:	1	2	50	100
LED 2: LED Roadway-Parking Unit 106W:	2	2	101	202
Drive-up windows/doors (1 windows or doors): Non-tradable Wattage				
LED 1: LED Roadway-Parking Unit 54W:	1	1	50	50
Driveway (4289 ft2): Tradable Wattage				
LED 3 copy 1: LED Roadway-Parking Unit 54W:	1	1	50	50
LED 2 copy 1: LED Roadway-Parking Unit 106W:	2	1	101	101
			Total Tradable Proposed Watts =	453

Exterior Lighting PASSES: Design 0.0% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in *COMcheck* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Matt Case — Signatu — 05/28/24
Name - Title — Date

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Chipotle - Cross Roads, TX
Location: Mesquite (Dallas), Texas
Climate Zone: 3a
Project Type: New Construction

Construction Site:
US Hwy 380 & Walmart Dr
Cross Roads, Texas 76227

Owner/Agent:

Designer/Contractor:

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Enhanced Interior Lighting Controls, 1.0 credit

Mechanical Systems List

Quantity	System Type & Description
2	RTU-1,2 (Single Zone): Cooling: 1 each - Single Package DX Unit, Capacity = 118 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 11.20 EER, Required Efficiency = 11.20 EER Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 12.80 IEER Fan System: RTU-1,2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: RTU-1,2 Supply, Constant Volume, 4000 CFM, 2.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Fan array <= 5 total HP
2	HVAC System (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 250 kBtu/h Proposed Efficiency = 82.00% Et, Required Efficiency: 80.00 % Et Cooling: 1 each - Single Package DX Unit, Capacity = 118 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 11.20 EER, Required Efficiency = 11.00 EER Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 12.60 IEER Fan System: RTU-1,2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: RTU-1,2 Supply, Constant Volume, 4000 CFM, 2.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Fan array <= 5 total HP

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in *COMcheck* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Matthew R. Case — Signature — 07/03/2024
Name - Title — Date

ARCHITECT OF RECORD
ROGUE ARCHITECTS
513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REVISION 1 - 7/1/24

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Issue Record:
05/30/24 COMBINE PERMIT SET

Revisions:
1 07/14/24 REVISION 01

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

Contents:
COMCHECK

G005

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01100 - SUMMARY

1.1 Contract Documents:

A. Contractor shall use the following Tenant provided documents in the negotiation and execution of the Work. Contact Tenant's office for copies of these documents:
   1. Chipotle Instructions to Bidders.
   2. Construction Contract for Chipotle Mexican Grill.

B. Definitions:
   1. The term "Owner" used in these documents refers to the building Owner/Landlord.
   2. The term "Tenant" used in these documents refer to the restaurant Tenant, Chipotle Mexican Grill, Inc.
   3. The term "Contractor" used in these documents refers to the entity responsible for performing the Work under Construction Contract for Chipotle Mexican Grill.

1.2 Scope of Work:

A. The Work shall include construction of the site and building facilities as shown and specified in these Specifications and Drawings.

B. When required and necessary, the Tenant will provide a subsurface exploration report as an attachment the bidding documents.

SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

1.1 Coordination:

A. Immediately inform the Architect of discrepancies between the information indicated in the Contract Documents and existing project conditions, and of discrepancies between information indicated on the architectural, structural, mechanical, plumbing and electrical documents.

B. Prior to fabrication and installation of new components, field verify all existing and new dimensions and installation conditions that may affect the Work. Do not scale the drawings to establish locations of items that are not located using dimensions.
   1. All dimensions are to rough face of stud or centerline of structure, unless otherwise indicated.
   2. Verify that all Subcontractors have reviewed and coordinated locations of their equipment and furnishings exposed to view with the architectural drawings. Review questions with the Architect.

C. Coordinate new work indicated on the Contract Documents with new work that may be provided by the Owner and Tenant under separate contracts.

D. Coordinate the work of Vendors, Contractors and Subcontractors providing fixtures, furniture and equipment identified as "by Tenant" in these drawings and specifications.
   1. Notify the Tenant in timely fashion if any problems develop with the performance of these Vendors, Contractors or Subcontractors.

E. Coordinate the scheduling, sequencing, and the work of all trades and Subcontractors to assure efficient and orderly sequences of installation of interdependent construction elements.

F. Verify that the utility requirement characteristics of operating equipment are compatible with the building utility services. Coordinate work of the various specification sections having interdependent responsibilities for installing, connecting to, and placing in service such equipment.

G. Coordinate the installation and physical space requirements of plumbing, mechanical and electrical work that are indicated diagrammatically on the drawings. Follow routing shown for piping, ducts and conduit as closely as practical. Install runs parallel with and perpendicular to the line of the building. Utilize spaces as efficiently as possible to maximize accessibility for other work installation and for maintenance and for repair.
   1. Conceal piping, ducts and conduit within the construction, except as otherwise indicated.
   2. Coordinate locations of registers, fixtures and outlets with finish elements.

H. Coordinate completion and cleanup work of all trades and Subcontractors in preparation for Substantial Completion.

I. To minimize disruption of Tenant's activities after Tenant occupancy of the property, coordinate access to the property with the Tenant's Construction Manager for correction of defective work and work not in accordance with the Contract Documents.

1.2 Submittals:

A. Only when indicated in the specifications or drawings submit shop drawings, product data, and/or samples to the Architect, Design Manager, and Development Analyst for review. All submittals shall be made directly to the Architect by the general contractor. Only submittals for specified products will be accepted unless prior approval has been obtained for a substitution (refer to Section 01630).

Shop drawings: Submit electronic copies of each sheet of drawings. Shop drawings are original drawings prepared by the subcontractor or vendor for the purpose of conveying information to the Architect and/or Engineer on how a building element or product will be constructed in sufficient detail for the Architect and/or Engineer to determine compliance with the design intent.

In all cases one copy of the submittal shall be returned to the General Contractor. Electronic submittals for shop drawing or product data in either PDF or DWF format are acceptable for review. All submittals, regardless of format, must bear the General Contractor's stamp indicating the submittal has been reviewed and approved. Any submittal not meeting the requirements set forth will be rejected by the Architect.

Submittals shall be made with respect to the construction schedule to allow for adequate review time: allow (5) business days for review of submittals for any structural steel, canopies and trusses and allow (3) business days for review of submittals in all other divisions. Review timeline will commence from the time the submittal with General Contractor's approval stamp is received by the Architect, Design Manager, and Development Analyst.

1.3 Requests For Information

A. In the event that the general contractor, or a subcontractor, at any tier, determines that some portion of the drawings, specifications, or other contract documents requires a clarification or interpretation by the architect, the general contractor shall submit a Request For Information in writing to the architect in an electronic copy.

Requests for Information may only be submitted by the general contractor and may only be submitted to the architect. The general contractor shall clearly and concisely set forth the issue for which clarification or interpretation is sought and why a response is needed from the architect or the architect's consultants. In the Request for Information, the general contractor shall set forth an interpretation or understanding of the requirement along with an explanation of why such an understanding was reached.

B. The architect will review all Requests for Information to determine whether they are Requests for Information within the meaning of this term. If the architect determines that the document is not a request for information, it will be returned to the general contractor, un-reviewed as to content, for re-submittal in the proper form and in the proper manner.

Responses to Requests for Information shall be issued upon receipt, but no later that five (5) working days of receipt of the Request from the general contractor; unless the architect determines that a longer amount of time is necessary to provide an adequate response. If a longer amount of time is determined necessary by the architect, the architect will, within five (5) working days of receipt of the Request, notify the general contractor of the anticipated response time. If the general contractor submits a Request for Information on an activity with five (5) working days or less of float on the current project schedule the general contractor shall not be entitled to any time extension due to the time it takes the architect to respond to the Request provided that the architect responds within the parameters set forth above.

C. Responses to Requests for Information from the architect will not change any requirements of the contract documents. In the event that the general contractor believes that a response to a Request For Information will cause a change to the requirements of the contract documents, the general contractor shall immediately give written notice to the architect and the tenant stating that the general contractor considers the response to be a Change Order. Failure to give such written notice immediately shall waive the general contractor's (or any subcontractor's) right to seek additional time or cost under the Administrative Requirements of these contract documents.

SECTION 01400 - QUALITY REQUIREMENTS

1.1 Regulatory Requirements:

A. Perform all work in accordance with applicable local, state, and federal building codes, plumbing codes, mechanical codes, electrical codes, ordinances and rules and regulations governing food service establishments.

B. Comply with local, state and federal requirements governing accessibility.

C. Obtain all required demolition and erosion control permits required by authorities having jurisdiction.

1.2 Quality Control:

A. Maintain quality control over manufacturers, suppliers, products, services, site conditions and workmanship, to produce work of specified quality.

B. Comply with manufacturer's instructions and applicable trade standards.

C. Handle, install, connect, clean, condition and adjust products in strict accordance with manufacturer's instructions and complying with specified requirements.
   1. Request clarification from the Architect before proceeding, where manufacturer's instructions conflict with the Contract Documents.

D. Comply with specified standards as a minimum quality for the Work, except when more stringent tolerances, codes or specified requirements indicate higher standards or more precise workmanship.

E. Perform work by persons qualified to produce workmanship of the specified quality. Secure products in place with positive anchorage devices designed, sized and installed to withstand stress, vibration, physical distortion or disfigurement.

F. All dimensions shall be considered "hold-to" dimensions unless indicated otherwise (e.g. minimum or maximum dimensions.)

1.3 Testing:

A. Employ and pay for the services of an independent testing laboratory to perform inspections, tests and other services when required.

B. Include inspection and tests as indicated in the specification sections, drawings, and as required by authorities having jurisdiction.
   1. Test concrete in accordance with Section 03300 and drawing requirements.
   2. Test structural steel in accordance with Section 05110 and drawing requirements.

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

1.1 Provide temporary facilities and controls as shown and specified:

A. Codes and Standards: Provide temporary construction facilities and controls complying with all applicable local, State and Federal local laws, regulations and codes and utility company requirements.

B. Temporary Heating, Ventilating and Cooling:
   1. Provide, pay for and maintain all temporary heating, ventilating and cooling equipment and facilities required during the progress of the work to protect materials, finished work, and equipment against damage from low and high temperatures and humidity.
   2. Provide temporary heating, ventilating and cooling when the outside temperature and humidity is low/high enough to damage or affect in any way the performance or quality of material and product stored in the building, in any temporary storage area, or any material or product incorporated into the work.
   3. Provide temporary heating, ventilating and cooling when the outside temperature and humidity is low/high enough to significantly slow or hamper effectiveness of workers and to provide suitable working conditions.

C. Temporary Electrical Lighting and Power:
   1. Provide, pay for and maintain all temporary electrical service for lighting and power required during the progress of the work. Include all necessary wiring, fuses, disconnect switches, safety devices, junction boxes, panels, ground fault protections, and transformer if required. Include cost for providing temporary electric generators in the Contract Sum, if temporary electric service is not available for use during progress of the work.
   2. Temporary service and lighting and power items and installations shall conform to the requirements of the NFPA National Electric Code and OSHA Occupational Safety and Health Act of 1970.

D. Water: Provide, pay for and maintain all temporary water required during the progress of the work. Include all necessary storage tanks, piping, valves, fittings, hose and hose connections during construction and testing.

E. Temporary Toilets: Provide, pay for and maintain temporary toilet facilities for use by the Contractor, Contractor's employees and all Subcontractors and Subcontractors' employees. Comply with all local requirements for installation, use and maintenance of temporary toilet facilities.

F. Barriers and Enclosures:
   1. Provide temporary construction barriers in accordance with project requirements. Exercise all necessary precautions to protect adjacent properties, outside project contact limits, during progress of the work. Take special precautions to avoid damage to existing overhead and underground utilities and services owned or operated by the Owner or by public or private utility companies.
   2. Provide temporary weather-tight enclosures at exterior openings to provide acceptable working conditions and protection of materials and to allow for temporary heating, ventilating and cooling.

G. Field Office, Telephone and Email:
   1. Provide and maintain a temporary field office at the project site during progress of the work. A designated area within the existing building will be available for use as a temporary field office. Verify area size and location with the Tenant.
   2. Maintain copies of permits, approved shop drawings, specifications, addenda and record documents at field office.
   3. Provide temporary telephone service and internet service with email and photo capabilities to field office throughout progress of the work.
   4. Provide weekly photographic documentation of project progression to Tenant.

H. Safety and Security
   1. Provide and maintain all necessary safety provisions for protection and safety of the project work, workers and general public.
   2. Provide and maintain operable fire extinguishing devices in well-marked, accessible locations throughout the project. Provide types, quantities and locations in compliance with governing codes and ordinances.
   3. Provide all necessary security barriers and enclosures to protect the work and Tenant's operations from unauthorized entry of persons, vandalism and theft. Provide doors, when required, with self-closing hardware and locks.

I. Cleaning
   1. During Construction: Provide an approved on-site container for the use of all Contractors and Subcontractors for the collection of waste materials, debris and rubbish. Execute periodic cleaning to keep the work, the site and adjacent properties free from accumulations of waste materials, rubbish and windblown debris, resulting from construction operations. Remove crates and cartons in which materials, equipment, or fixtures are received to on-site containers daily.
      a. Maintain the property in a clean and orderly condition. Remove waste materials, debris and rubbish from the site on a daily basis and dispose of at legal disposal areas away from the site.
   2. Dust Control:
      a. Remove debris and rubbish from pipe chases, plenums and other similar closed or remote spaces prior to covering or enclosing the space.
      b. Sweep and vacuum clean interior surfaces before start of surface finishing and painting. Continue cleaning on an as-needed basis until finishing and painting is completed.
      c. Cleaning operations shall be acceptable to the Tenant's Construction Manager.

SECTION 01630 - SUBSTITUTIONS

1.1 General:

A. Products, including materials, equipment and systems described in the Contract Documents establish the standards of required function, dimension, appearance, quality and performance of the Work. Base all bids on the "Standards" indicated.

B. Requests by the Contractor for changes in products, manufacturers, fabricators, suppliers, installers, and methods of construction required by the Contract Documents are considered requests for "substitutions:" Substitutions will be considered only under the following conditions:
   1. The indicated "Standard" cannot be provided within the Contract Time
   2. The indicated "Standard" cannot receive necessary approval by the governing authority.
   3. A substantial advantage is offered the Owner, in terms of cost, time, energy conservation or other considerations of merit as determined by the Architect.

C. Submit each request for substitution to the Architect. Identify the product, manufacturer, fabricator, supplier, installer or the fabrication or installation method to be replaced in each request. Identify related Specification Section and Drawing numbers. Provide documentation as directed by the Architect.

D. Substitutions will not be considered when indicated on shop drawings or product data submittals without separate written request, when requested directly by subcontractor, manufacturer, fabricator, or supplier, or when acceptance will require substantial revision of the Contract Documents.

E. Substitute products, manufacturers, fabricators, suppliers, and installers shall not be used for the Project without Tenant and Architect's written acceptance.

SECTION 01700 - EXECUTION REQUIREMENTS

1.1 Preparation:

A. Protection of existing construction: Use all necessary care and appropriate means and methods to protect and prevent damage to existing construction and property not part of the Contract Work. Repair and refinish or replace construction an property damaged during construction work, at Contractor's expense.

1.2 Selective Demolition: Provide selective demolition as shown and specified.

A. Preparation:
   1. Coordinate work of this Section with work of various Contractors and Tenant's staff.
   2. Maintain protected access at all times.
   3. Erect and maintain weatherproof closures at exterior openings.
   4. Erect and maintain dust-proof interior partitions to prevent spread of dust or fumes.
   5. Erect and maintain barricades, enclosures, bracing, shoring, lights, warning signs and guards necessary for worker and public safety and protection of property.
   6. Disconnect, remove and cap designated utility services. Identify and mark locations of disconnected and capped utilities at the project site and on Project Record Documents.
   7. Notify and coordinate with the Tenant's Construction Manager and the building Owner for any demolition occurring outside the lease limit.
   8. Coordinate hours of operation and construction access with the Tenant's Construction Manager and the building Owner.

B. Selective Demolition
   1. Remove existing construction to accommodate new construction as indicated.
   2. Perform selective demolition in an orderly, systematic and careful manner with least possible disturbance to public and adjacent property. Use of explosives is prohibited.
   3. Immediately remove from the site and legally dispose of demolished materials, except as indicated otherwise. Do not burn or bury materials on the project site.

1.3 Cleaning

A. Final Cleaning: Perform final cleaning upon completion of project work.
   1. Remove waste and surplus materials, rubbish, tools, equipment and temporary construction facilities from the site.
   2. Clean exterior grounds; remove stains, spills and foreign materials from paved areas, power wash and sweep clean. Rake clean landscaped surfaces of the grounds.
   3. Remove temporary protection and labels not required to remain.
   4. Clean all finished surfaces. Remove grease, mastic, adhesives, dust, dirt, stains, fingerprints, labels and other foreign materials from exposed interior and exterior surfaces.
      a. Clean all plumbing, fire protection and electrical fixtures and equipment including ceiling area elevated ductwork and lighting fixtures.
      b. Clean permanent equipment filters and replace temporary disposable filters in mechanical units used during construction.
      c. Clean ducts, blowers and coils if mechanical units were operated without filters during construction.
   5. Clean interior and exterior glazing and mirrors, polish transparent and glossy surfaces and clean floors with appropriate materials and equipment.
   6. Remove waste, foreign material and debris from roofs, areaways and drainage systems.
   7. Before Tenant occupancy, conduct an inspection, with the Tenant, of exposed interior and exterior surfaces at all work areas, to verify that the entire work is clean.

1.4 Starting and Adjusting:

A. Prior to Substantial Completion, coordinate the start-up, test and balance, placement in operation and adjustment all systems, controls and equipment to verify proper operation. All systems shall be complete and operating prior to final inspection.

1.5 Contract Closeout:

A. Operation and Maintenance Data: Submit one operation and maintenance manual, bound in 8-1/2" x 11" text pages, three D side ring capacity expansion binders with durable plastic covers.
   1. Subdivide the binder contents internally with permanent dividers logically organized as described below. Provide tab titles clearly printed under reinforced laminated plastic tabs.
   2. Provide a table of contents with each product or system description identified.
   3. Provide a directory listing names, addresses, and telephone numbers of the project Architect/Engineer, Contractor, Subcontractors and major equipment suppliers.
   4. Prepare operations and maintenance instructions arranged by system and subdivided by specification section. Identify names, addresses, and telephone numbers of project Subcontractors and suppliers. For each category, identify the following:
      a. Significant design criteria.
      b. List of equipment.
      c. Parts list for each component.
      d. Operating instructions.
      e. Maintenance instructions for each equipment item and systems.
      f. Maintenance instructions for special finishes, including recommended cleaning methods and materials and special precautions for identifying detrimental agents.
   5. Submit operations and maintenance data to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

B. Record/As Built Documents:
   1. Prepare and maintain on site one set of the following record/as built documents:
      a. Contract Documents.
      b. Construction Documents.
      c. Change orders and other modifications to the Contract.
      d. Shop drawings, product data, and samples.
      e. Construction schedule.
   2. Store record/as built documents separate from documents used for construction.
   3. Record actual revisions to the Work, concurrently with construction progress.
   4. Legibly mark and record a description of actual products installed at each specification section, including the following:
      a. Manufacturer's name and product model and number.
      b. Approved product substitutions or alternates utilized.
      c. Changes made by addenda, change orders, and other modifications.
   5. Legibly mark each item to record actual construction, including the following:
      a. Measured depths of foundations in relation to finish first main floor datum.
      b. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
      c. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the work.
      d. Field changes of dimension and detail.
      e. Details not on original Contract Document drawings.
   6. Submit record/as built documents to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

C. Warranties and Bonds:
   1. Compile warranties and bonds required by the Contract Documents.
   2. Submit duplicate copies of warranties and bonds to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

D. Maintenance Materials and Spare Parts:
   1. Provide extra maintenance materials and spare parts in quantities indicated in the specification sections.
   2. Place in location as directed by the Tenant's Construction Manager.

DIVISION 2 - SITE CONSTRUCTION

1.1 General: Provide site construction work, including services, utilities, earthwork, paving and landscaping in accordance with the site construction work drawings and details.

2.1 Materials:

A. Stencils for pavement markings: Pavement Stencil Comapny, P: (800) 250-5547, stencils@pavementstencil.com

DIVISION 3 - CONCRETE

SECTION 03300 - CAST-IN-PLACE CONCRETE

1.1 General: Provide cast-in-place concrete work in accordance with the General Structural Notes, structural drawing and details. Follow shell building documents for specifications, joints and geotech.

A. Standards: Materials and construction shall conform to the following:
   1. ACI 117 "Standard Tolerances for Concrete Construction and Materials."
   2. ACI 301 "Structural Concrete for Buildings."
   3. ACI 305R "Recommended Practice for Hot Weather Concreting."
   4. ACI 306R "Recommended Practice for Cold Weather Concreting."
   5. ACI 315 "Details and Detailing of Concrete Reinforcement."
   6. ACI 318 "Building Code Requirements for Reinforced Concrete."

2.1 Materials:

A. Under Slab Vapor Retarder: Stego Industries LLC, 877-464-7834, internet www.stegoindustries.com high density polyethylene Stego Wrap (10 mil) Vapor Barrier meeting or exceeding ASTM E1745 performance criteria for Class C vapor retarders.
   1. Seam Tape: High density polyethylene tape with pressure sensitive adhesive.
   2. Pipe boots: Shop or site fabricated from vapor retarder material and seam tape.

B. Concrete:
   1. Portland Cement: ASTM C150, Type I
   2. Aggregate: ASTM C33.
   3. Water: Clean and potable.
   4. Reinforcement: When required, comply with drawings reinforcement requirements.
   5. Compressive Strength: Minimum 3000 psi at 28 days.
   6. Admixtures: All admixtures shall be approved by the Tenant's Construction Manager prior to placement in the concrete mix.

C. Topping Concrete: When required to suit installation conditions, Ardex Diama-Top of Ardex Engineered Cements (888) 512-7339, internet www.ardex.com
   1. ULTRAFLOR ARDEX DIAMA-TOP, self-leveling concrete repair material.
   2. Any pinholes that need to be filled shall be filled with ARDEX DIAMA-FILL filling compound for polished concrete, concrete terrazzo and other cementitious wear surfaces applied at the appropriate time during the polishing process.
   3. The primer for areas to receive ARDEX DIAMA-TOP will be ARDEX EP 2000 Substrate Preparation Epoxy.
   4. Installation shall be performed by factory-trained professional applicators in strict accordance with manufacturer's installation instructions.

3.1 Installation

A. Vapor Retarder: Place, protect and repair vapor retarder sheets in accordance with ASTM E1643 and manufacturer's installation instructions.
   1. Provide a single layer of vapor retarder material over level compacted slab base.
   2. Lap joints and seams 6 inches and seal with seam tape.
   3. Seal all penetrations and repair damaged areas before concrete placement.

B. Reinforcement Place and inspect all reinforcing steel before concrete is placed.

C. Concrete Placement:
   1. Place cast-in-place concrete in accordance with ACI 301 and ACI 305R and 306R recommended practices for hot weather and cold weather concreting. Do not place concrete when temperature is below 40 degrees F.
   2. Wet cure concrete in accordance with ACI 301, using moist curing or moisture-retaining covers

D. Finish: Except where additional floor finish is scheduled, provide a smooth steel trowel finish.
   1. Exposed concrete used as a finish floor surface shall have a smooth finished surface, uniform in texture and appearance and free of trowel marks and other defects affecting ease of maintenance.
   2. Grind smooth surface defects as directed by the Tenant's Construction Manager.

E. Testing: When required, comply with drawings and specification sections testing requirements.

F. Topping Concrete: Prepare concrete floor slab substrate surfaces, prime substrate surfaces, mix, install and finish topping concrete in accordance with manufacturer's application instructions.

SECTION 033600 - RESINOUS FLOORING

1.1 General: Section includes: Decorative resinous flooring systems.

1.2 System Description:

A. Performance Requirements: Provide resinous flooring that has been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.
B. Alternate Flooring Options as approved by CMG DM: AlFlooring TerraQuartz (color: salt & pepper) -or- AlFlooring TerraSeal (color: medium grey)

1.3 Quality Assurance:

A. Qualifications:
   1. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
      a. Installer shall be an established company with at least 3 years experience in the installation of polymer floors.
      b. Contractor shall demonstrate the ability to undertake and complete the required work and furnish documentation regarding the successful completion of projects of similar size and complexity.
   2. Manufacturer Qualifications: Manufacturer shall be capable of providing technical support, qualified applicators, and approval of application methods.

B. Pre-installation Meetings: Conduct a pre-installation meeting to verify flooring system specifications (color, texture, etc.), substrate analysis, and manufacturer's installation instructions.

C. Pre-installation Testing: Conduct pre-installation testing as follows:
   1. Water Vapor Transmission: Calcium Chloride tests should be conducted to determine the amount of water vapor coming through the slab. The results should be compared to limitations set forth by the manufacturer.
   2. Core Sample Testing: (optional) Core samples should be taken and analyzed if the installer believes there to be a problem with the integrity of the substrate that may affect flooring system performance.

1.4 Delivery, Storage & Handling:

A. Ordering: Comply with manufacturer's ordering procedures and allow for enough lead-time for custom blends so as not to interfere with construction schedules.

B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

C. Storage and Protection: Store materials where they are protected from direct sunlight and harmful weather conditions. Meet manufacturer's condition for temperature, humidity, etc.

1.5 Project Conditions:

A. Environmental Requirements/Conditions: Substrate and ambient air temperatures shall be in accordance with manufacturer's requirements.

B. Temperature Requirements: Maintain air temperature in spaces where products will be installed for time period before, during and after installation as recommended by manufacturer.

ARCHITECT OF RECORD

ROGLIE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · TAYLOR R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.: CMG5134

Contents:

ARCHITECTURAL SPECIFICATIONS

G010

2.1 Materials:

A. Resinous Flooring: Manufacturer: aiflooring
   1. Contact: 1218 West 41st Street, Suite B, Tulsa, Oklahoma 74107. Phone: 918-445-0627

2.1 Flooring System:

A. System Description: Clear, thin film system 18-22 mils thick with texture agent added for slip resistance.
   1. TerraPrime: A 2 component, 100% solids clear polyamide-cured epoxy coating.
   2. TerraThane Satin: A 2 component, 90% solids polyurea clear finish coat.
   3. TerraGrip: A graded, plastic aggregate added to finish coat for slip resistance.

2.3 Product Substitutions:

A. Substitutions: No substitutions permitted.

2.4 Source Quality:

A. Source Quality: Obtain resinous materials, including patching and leveling materials from a single manufacturer.

3.1 Manufacturer's Instructions:

A. Compliance: Comply with manufacturer's product data, including product technical data sheets and application instructions.

3.2 Examination:

A. Site Verifications of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.
   1. Before applying materials, inspect surfaces to receive new materials and report any unsatisfactory conditions. Absence of any such report shall constitute installer's acceptance of surfaces as satisfactory for installing materials.

3.3. Preparation:

A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.

B. Surface Preparation:
   1. Mechanical Cleaning: Concrete floor surfaces receiving polymer flooring systems shall be thoroughly cleaned and prepared by shotblasting and/or diamond grinding.
   2. Patching Damaged Substrate: Holes, voids, static cracks, and other substrate surface defects should be patched and repaired according to manufacturer's recommendations.
   3. Prepare and clean control joints well and fill with an appropriate elastomeric.

3.4 Installation:

A. Resinous Flooring Installation: The following are abbreviated guidelines that should provide for basic application steps for the installation of the systems. Detailed instructions should be obtained from the manufacturer.
   1. Patching: After substrate preparation, surface defects shall be patched according to manufacturer's recommendations.
   2. Priming: Apply aiflooring TerraPrime, 100% solids epoxy primer, at a rate of 125-150 square feet per gallon. Allow 6-12 hours (depending on temperatures) of cure before applying finish coat. Finish coat must be applied within 24 hours of TerraPrime application.
   3. Finish Coat: Apply aiflooring TerraThane Satin, 90% solids polyurea topcoat, at a rate of 200 square feet per gallon. TerraGrip should be added to the TerraThane mix at a rate of 1 pint per 3 gallon kit for slip resistance. Note that TerraThane Satin must be metered out by notched squeegee prior to rolling.

B. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris.

3.5 Protection:

A. Protection: Protect installed product and finish surfaces from damage during construction.

SECTION 03395 - CONCRETE SEALING AND POLISHING

1.1 General: Provide a sealed and polished concrete floor finish as shown and specified.

A. Standards
   1. American Society for Testing and Materials:
      a. ASTM-C779, Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces.
      b. ASTM G23-81, Ultraviolet Light & Water Spray
      c. ASTMC805, Impact Strength
   2. American Concrete Institute
      a. ACI 302. 1R-89, Guide for Concrete Floor and Slab Construction

B. Submittals: Provide the following:
   1. Manufacturer's product data, specifications and installation instructions. Include Material Safety Data Sheets (MSDS) and identify application requirements, curing time and safety requirements.
   2. Certified test reports, prepared by an independent testing laboratory, confirming compliance with performance criteria.
   3. Manufacturer's certification that installer is a certified applicator of special concrete floor finishes, and familiar with manufacturer's installation procedures and requirements for the specified sealed and polished concrete floor finish.
   4. Manufacturer's and installer's written acceptance of substrate surface and installation conditions.

C. Quality Assurance:
   1. Installer Qualifications:
      a. Use a certified installer and adequate number of skilled workmen who are thoroughly trained and experienced in the necessary craft.
      b. The special concrete finish manufacturer shall certify the applicator.
      c. Applicator shall be familiar with the specified requirements and the methods needed for proper performance of work of this section. Applicator shall have not less than three years successful experience installing sealed and polished floor finishes similar to those required for this project.
      d. Provide a letter of certification from special concrete finish manufacturer stating that installer is a certified applicator and is familiar with proper procedures and installation requirements required by the manufacturer.
   2. Protection: Contractor shall provide all necessary materials, means, methods and procedures acceptable to the floor finish manufacturer and required to protect the concrete floor surface and provide a suitable substrate for the installation of the specified sealed and polished concrete floor finish.

D. Project Conditions:
   1. Comply with the floor finish manufacturer's environmental limitations for substrate temperature and moisture content, ambient temperature, and humidity, ventilation and other conditions affecting the special floor finish performance.
      a. Concrete must have an average Floor Flatness rating of at least 40.
      b. Concrete must have an average Floor Levelness rating of at least 40.
      c. Concrete must be cured a minimum of 28 days or as directed by the manufacturer before application of RetroPlate can begin. Wet cure of the concrete is preferred. No concrete sealer is necessary.
      d. Application of RetroPlate shall take place prior to installation of equipment, thus providing a complete, uninhibited concrete slab for application.
   2. Before general sealer/hardener application, prepare and coat a jobsite test area of size acceptable to the Architect, to verify and approve proper surface preparation, application techniques and coverage rate.
   3. Close finished floor areas to traffic during floor finish application and after application for time period directed by the floor finish manufacturer.
   4. The completed RetroPlated slab will be covered to prevent damage by the other trades during store completion.

2.1 Materials

A. Hardening/ Sealing Agent
   1. RetroPlate 99 manufactured by Advanced Floor Products Inc. (801) 812-3420 www.retroplatesystem.com
   2. RetroGuard Stain Inhibitor
   3. Joint Filler: CreteFill Pro 75. Two component 100% solids non-staining Polyurea Elastomer.
   4. Spall Repair: Multiple minor surface defects and irregularities: Crete Fill Spall Repair: High Strength hybrid urethane, two part 100% solids.
   5. Coefficient of friction for Retroguard finish shall not be lower than .40.
   6. Manufacturer's Representative: Contact Scott Maxfield at RetroPlate for a list of Certified Applicators (888)942-3144 scott.maxfield@retroplatesystem.com

3.1 Installation

A. Surface Conditions
   1. Examine substrate, with installer present, for conditions affecting performance of finish. Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected.
   2. Verify that base slab meets finish and surface profile requirements in Division 3 Section "Cast-In-Place Concrete," and Project Conditions above.
   3. Prior to application, verify that floor surfaces are free of construction latents.

B. Application
The following RetroPlate process will be followed as listed below:
A concrete grinding machine must be used. Please proceed accordingly. The process is as follows:
   1. Floors should be started using 50, 80 or 100 grit diamond pucks depending on the condition of the slab.
   2. Clean the floor using automatic scrubber or comparable.
   3. Grind floor using 200 grit resin diamonds.
   4. Clean the floor using automatic scrubber or comparable.
   5. Apply RetroPlate 99 to floor at 200 sq. ft. per gallon, scrubbing product into the floor and allowing product to soak until turning slick. If it becomes sticky, apply water to the surface as necessary, leaving the product on the floor for at least 60 minutes.
   6. Grind floor using 400 grit resin diamonds.
   7. Clean the floor using automatic scrubber or comparable.
   8. Clean and remove any excess RetroPlate. Let the floor dry overnight.
   9. Continue the polishing process using 800 grit resin diamonds.
   10. Clean the floor using automatic scrubber or comparable.
   11. Alternately, depending on slab condition, grind floor using 1200-1500 grit resin diamonds.
   12. Clean the floor using automatic scrubber or comparable.
   13. The same process will be used for new floors as well as rehab floors. Floor prep for the rehab floors will be separate.
   14. Apply an even coat of RetroGuard Sealer with a brush, roller, or low-pressure sprayer, and when surface is dry, burnish the floor with a black burnishing pad. Apply a second coat of RetroGuard one hour after the initial application, and again burnish the floor with a black burnishing pad.
   15. Do not walk on surface for 12 hours, and do not introduce any water or moisture for at least 48 hours, allowing for proper drying and setting of RetroPlate and RetroGuard. Water will minimize the sealing properties of RetroPlate and RetroGuard.

C. Start any of the floor finish applications in presence of manufacturer's technical representative.

D. Sealing, Hardening and Polishing of Concrete Surface
   1. Concrete must be in place a minimum of 28 days or as directed by the manufacturer before application can begin.
   2. Application is to take place at least 10 days to the prior to racking and other in-store accessory installation, thus providing a complete, uninhibited concrete slab for application.
   3. Only a certified applicator shall apply RetroPlate 99. Procedures must be followed as recommended by the product manufacturer and as required to match approved test sample.
   4. Achieve waterproofing, hardening, dust-proofing, and abrasion resistance of the surface without changing the natural appearance of the concrete, except for the sheen.
   5. Polish to a level 2 shine.

E. Workmanship and Cleaning
   1. The premises shall be kept clean and free of debris at all times.
   2. Remove spatter from adjoining surfaces, as necessary.
   3. Repair damages to surface caused by cleaning operations.
   4. Remove debris from jobsite
      a. Dispose of materials in separate, closed containers in accordance with local regulations.

DIVISION 4 - MASONRY

SECTION 04810 - UNIT MASONRY ASSEMBLIES

1.1 General: Provide unit masonry assemblies as shown and specified.

A. Standards: Materials and construction shall conform to the following:
   1. ACI 530.1-02/ASCE 6-02/TMS 602-02 "Specifications for Masonry Structures."
   2. NCMA "TEK Bulletins."
   3. BIA "Technical Notes on Brick Construction."

2.1 Materials:

A. Concrete Masonry Units (CMU): Size and thickness as shown on drawings.
   1. ASTM C 90, load-bearing, normal weight, natural color CMU, properly cured at time of delivery, linear shrinkage not to exceed 0.065%.
   2. Provide special shapes where required.
   3. Provide exterior wall CMU containing an integral polymeric water-repellent admixture.
      a. Manufacturer: W. R. Grace "Dry-BlockR System Block Admix ".

B. Face Brick:
   1. Manufacturer:
      a. Endicott, (402) 729-3315, www.endicott.com (Iron Spot Brick), or as approved by architect
      b. Belden Brick Company, (330) 451-2031, www.beldenbrick.com (White Brick), or as approved by architect
   2. Type: "Face Brick C216" complying with ASTM C216, Grade SW, Type FBS. No efflorescence when tested in accordance with ASTM C67.
   3. Size: Modular size, laying three courses to 8" vertically.
   4. Color: "Alaska White Velour" or "Manganese Ironspot, Velour" as noted on Exterior Elevations
   5. Provide special shapes where required.

C. Mortar Materials:
   1. Portland cement: ASTM C150, Type I or III, natural color.
   2. Masonry cement: ASTM C91, Type indicated, natural color.
   3. Aggregate: ASTM C144, clean masonry sand.
   4. Water: Clean, fresh and potable.
   5. Provide all exterior wall masonry mortar containing an integral polymeric water-repellent admixture.
      a. Manufacturer W. R. Grace, "Dry-BlockR Integral Water-Repellent Mortar Admixture".

D. Unit Masonry Mortar Mixes: ASTM C270 proportions by volume.
   1. Face brick: Type N mortar.
   2. Dye:
      a. SGS #60A "White" by Solomon Grind Services (White)
      b. SM #750 "Silverstone" by Spec Mix (Iron Spot)

E. Reinforced Unit Masonry Grout Mixes
   1. Concrete fill: ASTM C94 3,000 psi concrete.

F. Joint Reinforcement, Wall Ties And Anchors: Finish, ASTM A-153 hot-dip galvanized
   1. Manufacturer: Hohman & Barnard, INC.
   2. Horizontal joint reinforcement: Welded ladder type with matching corners and Tee units.
      a. Single Wythe masonry: Standard single 9 gage side and cross rods. H&B - #220 Ladder-Mesh.
   3. Anchoring devices: Provide strap anchors, inserts, bolts and rods of type and size indicated.
      a. CMU to CMU: Strap anchors 1/4" x 1-1/4" x 24" steel with bent ends.
      b. CMU to structural steel: H&B - VBT - Vee Byne-Tie With Plain Steel (Tie) Used In Conjunction With H&B #359 Weld-on Ties (Anchor Rods).
   4. Masonry Veneer To Woof Framing: H&B - DW-10HS Veneer Anchor, With Adjustable 3/16" Cold-Drawn Steel Wire Tie Sections and 14 GA. Screw-On Attachment Plate.
      a. Fasteners: Self-Drilling, Self-Tapping Screws, 1-1/4" X #10, Corrosion-Resistant Coated. Provide Two (2) Screw Fasteners for each Attachment Plate.
   5. Seismic Masonry Veneer to Wood Framing: (When Required) H&B Seismic Plate Pintle HB-213S with HB-213 (T-Lok Tie)
      a. Fasteners: Seld-Drilling, Self-Tapping Screws, 1-1/4" X #10, Corrosion-Resistant Coated. Provide Two (2) Screw Fasteners For Each Attachment Plate.

G. Concealed Masonry Through-Wall Flashing: W. R. Grace "Perm-A-Barrier" self-adhering modified bituminous sheet, 40 mils thick.
   1. Termination Mastic: W.R. Grace "Bituthene Mastic."
   2. Primer: W.R. Grace "Bituthene P-300 Primer."
   3. Termination bars: Extruded aluminum or stainless steel, 1" wide and .098" thick pre-punched at 6" on center, secured with stainless steel drive pins.

H. Accessories
   1. Reinforcing bars: ASTM A615, Grade 60, deformed billet steel bars of sizes indicated.
   2. Wall weeps: Dur-O-Wal D/A 1006 "Cell Vent", clear flexible polypropylene co-polymer.
   3. Compressible joint material: Dur-O-Wal "Rapid Soft-Joint" D/A 2010.
   4. Bond breaker strips: ASTM D226 No. 15 asphalt saturated roofing felt.
   5. Cleaning agents:
      a. Face Brick and CMU: ProSoCo, Inc., "Sure Klean New Masonry Cleaners."
      b. ACMU: ProSoCo, Inc., "Sure Klean Burnished Custom Masonry Cleaner."
   6. Expansion/Control joint sealants: Polyurethane-based, elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements. Color matched to adjacent surfaces.

3.1 Installation

A. Preparation
   1. Wet absorbent face brick masonry units requiring wetting, in accordance with BIA recommendations.
   2. Lay concrete masonry units dry.
   3. Establish, lines, levels and coursing. Ensure ties, anchors and flashing are correctly installed
   4. Mix mortar cementitious materials and aggregate in a mechanical mixer. Add water in amount to provide satisfactory workable consistency of mortar. Retemper mortar as required within two hours of mixing to replace water lost be evaporation. Discard mortar after two and one-half hours of initial mixing. Do not use mortar after it has started to set.

B. Installation - General:
   1. Build walls and other masonry construction to the full thickness shown. Build single wythe walls to the actual thickness of the masonry units, using units of nominal thickness shown.
   2. Cut masonry units using motor-driven masonry saws to provide clean, sharp edges. Cut units to fit adjoining work neatly. Provide 100% solid units where cores would be exposed.
   3. Cold weather construction, hot weather construction, and masonry construction tolerances: Comply with unit masonry standard ACI 530.1/ASCE 6/TMS 602 requirements.

C. Laying Masonry
   1. Layout walls in advance to ensure accurate spacing of surface bond patterns, with uniform joint widths, and to properly locate openings, movement type joints, returns and offsets. Do not use less than half-size units at corners, jambs and other locations.
   2. Lay up walls plumb and true to comply with ACI 530.1 tolerances. Provide square corners and angles, except as otherwise indicated, with courses level, accurately spaced and coordinated with other work.
   3. Pattern bond: Running bond. Do not use units with less than 4" of horizontal face dimensions at corners or jambs.
   4. Lay hollow CMU/ACMU with full mortar coverage on horizontal and vertical face shells. Bed CMU webs in mortar in starting courses. Maintain uniform 3/8" joint widths.
   5. Lay face brick and solid CMU/ACMU with completely filled bed and head joints. Do not slush head joints. Maintain uniform 3/8" joint widths.
   6. Compress and cut joints flush for masonry walls below grade or covered by other materials.
   7. Tool joints in all exposed masonry work to a concave joint.
   8. Provide interlocking masonry bond in each course at corners and intersecting walls.
   9. As the work progresses, build in masonry accessories and related items. Fill in solidly with masonry around built-in items.
      a. Bed hollow metal frame anchors in mortar and fill space between hollow metal frames and masonry solid with fine mortar grout.
      b. Provide solid masonry bearing for all lintels, beams, joists, plates and load-bearing members.
      c. Take particular care to embed all conduits and pipes within concrete masonry without fracturing exposed shells and to fit units around switch, receptacle and other boxes set in walls. Where electric conduit, outlets, switch boxes and similar items occur, grind and cut units before building in services.
      d. Install anchors, plates and related work built into masonry work.
      e. Install reinforcing steel and concrete fill where indicated. Comply with drawing details.
   10. Horizontal joint reinforcing: Provide continuous joint reinforcing at all concrete masonry walls as follows:
      a. In every second block course, 16" on center vertically, full height of wall and every block course where shown on the drawings.
      b. Lap reinforcement a full width at the corners and at intersections or use special fabricated sections.
      c. Fully embed side rods in mortar.
   11. Anchoring masonry work: Provide anchoring devices of the type indicated or required.
   12. Provide vertical expansion, control and isolation joints in masonry where indicated.
      a. When not indicated, at maximum 30'-0" on center.
      b. Locate control joints at points of natural weakness in masonry and acceptable to Architect.
      c. Joint sealant color shall match masonry materials sealed.
   13. Lintels: Install loose steel lintels furnished under structural steel work where shown. Set lintels in full bed of mortar.
   14. Flashing and weeps:
      a. Install concealed through wall masonry flashing at all wall sills, masonry openings in exterior walls with masonry above head, over all horizontal steel members built into masonry and elsewhere as indicated. Provide "drainage wall system" masonry construction.
      b. Provide end dams and positive slope to drain. Extend flashing vertically at least 8" and built into or anchor to back-up with a termination bar for a complete watertight installation.
      c. Flexible Membrane Flashing:
         1.) Install membrane flashing in accordance with manufacturer's installation instructions.
         2.) Fully adhere flashing to substrate.
         3.) Lap flashing joints a minimum of 6", seal and roll with a hand roller.
         4.) Trim bottom edge 1/4" back from exposed face of masonry.
         5.) Seal edges, seams, cuts and penetrations with manufacturer's recommended mastic.
   15. Install weeps in head joints of final course of exterior masonry wythe above flashing. Space weeps maximum of 24" on center horizontally and located to avoid door openings. Install weeps at head joints with outside face of weep material held 1/8" from the finish face of masonry unit.
   16. Install compressible joint material at lintels and horizontal steel members. Build in joint fillers and seal with elastomeric joint sealant.

D. Masonry Veneer Walls:
   1. Metal framed walls: Tie exterior masonry veneer wythe to back-up wall with individual metal ties screwed to metal stud framing.
   2. Space ties 16" on center vertically and horizontally.
   3. Maintain veneer wall cavity free of mortar droppings during masonry installation.

E. Parging:
   1. Dampen masonry walls prior to parging.
   2. Scarify each parging coat to ensure full bond to subsequent coat.
   3. Parge masonry walls in two uniform coats of mortar to a total thickness of 3/4 inch (19mm).
   4. Steel trowel surface smooth abs flat with a maximum surface variation of 1/8 inch per foot (1mm/meter).

F. Architectural Concrete Masonry Units: Install ACMU in accordance with the manufacturer's installation instructions and the following:
   1. Draw ACMU from more than one pallet at a time during installation.

G. Reinforced Concrete Masonry
   1. Reinforce and fill CMU/ACMU wall and column masonry where indicated. Fill all cores solid with concrete fill. Comply with NCMA TEK Bulletins 3-2, 3-3A and 14-2 recommendations.
      a. Comply with drawing details for reinforcing steel size and spacing.
   2. Install bond beams where indicated. Reinforce and fill units solid with concrete fill. Comply with drawing details for reinforcing steel size and spacing.

H. Repair, Pointing and Cleaning
   1. In process cleaning: Wipe off excess mortar as the work progresses. Dry brush with bristle brushes exposed masonry at the end of each day's work. Remove mortar spatters and joint ridges.
   2. Clean all exposed masonry. Cleaning agents subject to Architect's approval. Before applying any cleaning agent to the entire wall, clean a sample wall area of approximately 20 square feet in a location acceptable to the Architect. Do not proceed with final cleaning until the sample area has been allowed to dry a minimum of 3 days and the test area cleaning approved. Protect all windows, doors, louvers, metal lintels and other corrodible parts. Damaged materials and work replaced at Contractor's expense.
   3. Dry clean exposed surfaces to remove large particles of mortar using hardwood wood paddles and scrapers. Metal tools not acceptable.
   4. Presoak exposed masonry surfaces by saturating with water and flush off loose mortar and dirt.
   5. Apply cleaning solutions and clean masonry in accordance with the cleaning material manufacturer's cleaning instructions.
   6. Muriatic acid cleaning of masonry not permitted.

I. Architectural Concrete Masonry:
   1. Keep ACMU walls clean during installation. Remove excess mortar on daily basis using brushes, rags or burlap squares.
   2. Clean completed walls with detergent masonry cleaner recommended by the ACMU manufacturer. Acid cleaning agents, abrasive cleaners, tools or powders and metal cleaning tools and brushes are not permitted.
   3. After final clean down and when walls are dry, apply ACMU acrylic finish coating in accordance with ACMU manufacturer's application instructions.

DIVISION 5 - METALS

SECTION 05120 - STRUCTURAL STEEL

1.1 General: Provide structural steel in accordance with the General Structural Notes and structural drawings and details.

A. Standards: Materials and construction shall conform to following:
   1. AISC "Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings."
   2. AISC "Code of Standard Practice."
   3. AWS "Structural Welding Code, D1.1-Steel."

2.1 Materials:

A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.

B. Structural Shapes: ASTM A36/A36M, 36 ksi steel.

C. Tubular Steel: ASTM A500, 46 ksi yield strength steel, cold-formed welded and seamless.

D. Structural pipe: ASTM A53, type and grade selected by the fabricator as required for design loading, standard finish, standard weight (Schedule 40) except as otherwise indicated.

E. Grout: ASTM C1107, pre-mixed, shrinkage resistant, non-metallic, non-corrosive, non-staining grout.

F. Shop paint primer: Refer to Section 09900 - Paints and Coatings.

G. Fabrication: Fabricate structural steel in accordance with AISC "Specification - Structural Steel for Buildings" and "Code of Standard Practice." Provide welded or bolted connections in accordance with the Structural Drawings connection requirements.
   1. Welding: Conform to AWS welding standards. Provide only continuous welds, spot welding is not acceptable. Grind all exposed welds smooth.
   2. Splicing: Material, if spliced, shall have maximum one splice per structural member. Perform splicing by full penetration butt-welding using AWS qualified welders and welding methods.
   3. Shop painting: Shop paint structural metal members, except members or portions of members to be embedded in concrete or masonry, surfaces and edges to be field welded and galvanized surfaces. Refer to Section 09900 - Paints and Coatings.

3.1 Installation:

A. Erection: Erect structural steel in accordance with AISC "Specification - Structural Steel for Buildings" and "Code of Standard Practice".
   1. Plumb, level and align base plates for structural members with steel shims.
   2. Grout structural steel base plates solid that bear on concrete or masonry surfaces.

B. Testing: When required, comply with drawings testing requirements.

SECTION 05400 - COLD-FORMED METAL FRAMING

1.1 General: Provide cold-formed metal framing in accordance with the General Structural Notes and structural drawings and details.

A. Standards: Materials and construction shall conform to following:
   1. AISI SG02.2-01 "Design of Cold-Formed Steel Structural Members."
   2. AWS "Structural Welding Codes, D1.3-Sheet Steel."

2.1 Materials:

A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.

B. Load-Bearing Cold-Formed Metal Framing: ASTM A1003, Gage, Grade and Type indicated.
   1. Components: Provide sizes and shapes indicated.
   2. Finish: Galvanized complying with ASTM A653, minimum G60 coating.

C. Fabrication:
   1. Cold-formed metal framing may be prefabricated into panels before erection. Fabricate panels plumb, square, true to line and braced against racking with joints welded.
      a. Provide one-piece full-length cold-formed metal framing members. Splicing not permitted.
   2. Attach and join other components by welding or screw fasteners, as indicated. Wire tying of framing components is not permitted.
   3. Cut framing to fit squarely for attachment to perpendicular members or as required for angular fit against abutting members. Hold members securely in position until properly fastened.
   4. Saw cut field cut framing. Torch cutting not acceptable.

3.1. Installation:

A. Erection: Erect cold-formed metal framing members of gage and at spacing indicated on the Structural Drawings. Align and secure studs to top and bottom runner tracks by welding or screw fasteners at both inside and outside flanges.

B. Tolerance Acceptance: Install cold-formed metal framing member as indicated on the plans. Install to 1/16" tolerance.

SECTION 05500 - METAL FABRICATIONS

1.1 General: Provide metal fabrications as shown and specified.

A. Submit shop drawings for the following:
   1. Patio Rail systems.
      a. Show thickness, size, construction and manner of assembling various members, joint locations and railing layout.
      b. Show true profiles, connections and relationship to adjoining work and methods of anchoring.

2.1 Materials

A. Materials compliance: When requested, submit acceptable data documenting materials compliance.

B. Steel Shapes: ASTM A36/A36M, 36 ksi steel.

C. Stainless Steel:
   1. Wall: 18 gage, ASTM A167, AISI Type 304 stainless steel, No. 4 finish.

D. Diamond Plate: Nominal 1/8" thick ASTM B209, Alloy 6061-T6, Aluminum Diamond Tread Plate.
   1. Wall: Bright reflective finish.
   2. Floor: Mil finish.

E. Patio Railing System
   1. Submit shop drawings including the following:
      a. Show thickness, size, construction and welding, as well as assembly drawings.
      b. Show true profiles, connections of all typical joint configurations
      c. Show installation (fastening) and proposed grout (non-gypsum base)
      d. Show gate detail and gate hardware manufacturer and model number
      e. Patio railing plan, with dimensions and panel assembly locations.
   2. Fabrication
      a. Patio rails and gate shall be fabricated from steel flat bar, 3/8" x 2 1/2", grade A36.
      b. Corner connector angles shall be 2 1/2" x 2 1/2" x 1/4" steel L angle.
      c. Gate hinges shall be a self-closing, adjustable tension type. Hinge installation shall be drilled and tapped. Permanently welded are unacceptable.
      d. Gate stop shall have a rubber cushion stop and be affixed to the active gate.
      e. All corners and joints shall be seal welded and outside joints ground smooth.
      f. All welding spatter shall be removed before sand blasting.
   3. Finish
      a. Patio railing shall be painted PPG Durethane, color 518-6 Knight's Armor. Refer to Section 09900 - Paints and Coatings for preparation.

F. Exposed Fasteners:
   1. Diamond Plate: #8 x 1" bevel headed stainless steel screw.
   2. Patio Railing:
      a. All fasteners shall be stainless steel and powder coated to match railing sections.
      b. Spacer washers separating railing sections shall be 1 1/2" diameter and 1/2" thick they shall be one piece thick washers and not comprised of stacking washers
      c. Spacer washers shall be used on all straight sections and when railing panels join at 90 degree corner angles.

G. Shop paint primer: Refer to Section 09900 - Paints and Coatings

ARCHITECT OF RECORD

ROGUE ARCHITECTS

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SEAL

REGISTERED ARCHITECT · TAYLOR R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.: CMG5134

Contents:

ARCHITECTURAL SPECIFICATIONS

G011

3.1 Installation: Comply with the Architectural Drawing details and the following:

A. Exposed Fasteners:
1. Flat Metal Panels: Provide 18" vertical and horizontal pattern or spaced equally if 18" pattern does not finish evenly. Exposed fasteners shall remain unpainted in natural factory supplied finish.
2. Diamond Plate: Provide counter sunk fasteners at perimeter of panels at 2'-0" on center maximum as well as fully adhering to surface.

B. Stainless Steel:
1. Wall:
a. Clean stainless steel panel with mineral spirits.
b. Install stainless steel panels with Henry 117 oil based adhesive applied to wall with 1/8" notch tooth trowel.
c. Trim seams as indicated on the Drawings. No exposed fasteners.

C. Diamond Plate:
1. Wall: Mount over plywood substrate w/ flush exposed fasteners.
2. Floor: Provide continuous bead of silicone sealant to back side perimeter of plate prior to installation.
3. Mount with exposed fasteners. Provide continuous bead of silicone sealant to perimeter of plate after installation.

D. Patio Railing System:
1. Railing posts shall be set 6" deep into a core drilled hole, 4"-6" diameter
2. Railing posts shall be grouted in using non gypsum quick set grout.
3. Railing posts shall be set in grout plumb and level, with a tolerance of 1/8" in 4 feet.

E. Hand-inspect all joints and edges of installed metal materials. Unless otherwise indicated, fit exposed connections accurately together to form tight hairline joints. Grind and ease exposed joints, and edges smooth and free of burrs.

DIVISION 6 - WOOD AND PLASTICS

SECTION 06100 - ROUGH CARPENTRY

1.1 General: Provide rough carpentry work as shown and specified.

A. Standards: Materials and construction shall conform to following:
1. NIST PS-1-95 "Construction and Industrial Plywood."
2. NIST PS-2-95 "Performance Standards for Wood-Based Structural-Use Panels."
3. NIST PS-20-99 "American Softwood Lumber Standard."
4. NF&PA NDS-97 "Wood Construction and Supplement."
5. AWPA "Wood Treatment Standards."

2.1 Materials:

A. Lumber: Factory grade-marked, dressed, seasoned dimension lumber, S4S, air-dried, maximum 19% moisture content complying with PS-20, dimensions indicated.
1. Blocking, nailers and similar members: Standard Grade Western Dimension Lumber or Southern Pine species.
a. Provide preservative treated lumber, where indicated.

B. Plywood: Factory grade-marked, complying with PS-1, square edge, 5/8" thick.
1. APA-RATED SHEATHING EXP1.
a. Provide Exterior Grade (EXT) plywood, where indicated.
b. Provide fire-retardant treated plywood, where required by Building Code.

C. Oriented Strand Board (OSB): Factory grade-marked, complying with PS-2, square edge, 5/8" thick

2.2 Wood Treatment:

A. Preservative Treatment: Comply with applicable requirements of AWPA Standards C2 (Lumber).
1. Pressure preservative treat lumber with water-borne preservatives, acceptable to authorities having jurisdiction, to a minimum retention of 0.25 pcf.
2. Treat wood blocking, nailers and similar members in connection with roofing and flashing.
3. Treat wood plates, blocking, furring and similar concealed members in contact with masonry or concrete.

B. Fire-Retardant Treatment: Comply with applicable requirements of AWPA Standards C27 (Plywood). Identify "fire-retardant-treated plywood" with appropriate UL classification marking.
1. Treated materials shall meet "Interior Type A" FR-S ratings of not more than 25 for flame spread, smoke developed and fuel contributed when tested in accordance with UL 723 or ASTM E84, with no increase in flame spread and evidence of significant progressive combustion upon continuation of test for additional 30 minutes.

C. Kiln-dry all treated lumber and plywood materials after treatment to maximum 15% moisture content.

3.1 Installation:

A. Lumber: Provide wood blocking, nailers and similar members where shown and where required for attachment of other work and surface applied items. Attach to substrate as required to support applied loading.
1. Use only sound, seasoned materials of longest practical lengths and sizes to minimize joints.
2. Use materials free of warp. Make tight connections between members.

SECTION 06210 - FINISH CARPENTRY AND MILLWORK

1.1 General: Provide finish carpentry and millwork as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. AWI "Architectural Woodwork Quality Standards - 1999."

B. Doors and door hardware: Install all door hardware furnished under Division 8 specification Sections.

C. Submit shop drawings for designated millwork.
1. Include complete details, materials lists and drawings showing fabrication of typical units, unit assemblies, locations and installation details.
2. List proposed cabinet hardware to suit indicated unit use or function.
3. Identify materials required to complete work ready for installation.
4. Obtain shop drawing approval before starting fabrication.

2.1 Materials:

A. Plywood: AWI Section 200
1. Concealed use substrates: CDX, D-3 Paint Grade hardwood plywood, with aspen veneer core, 5/8" thick. (OSB is an alternative as allowed by Chipotle CM)
2. Exposed to view finishes:
Random plank matched or slip and swing matched spalted maple veneer on 3/4" baltic birch core, with mill option sound grade hardwood backer. Spalted maple grain to run horizontally .5 sheen matte clear waterborne finish. Panels to be provided at 47" height, with widths varying from 24" to 95".

B. Millwork: Materials and construction as detailed on the Drawings.

C. Fabrication:
1. Millwork design and fabrication details shown on the drawings indicate design intent. Unless otherwise indicated, provide manufacturer's standard fabrication methods. Indicate all proposed variations from the drawing design and fabrication details on shop drawings.
2. Fabricate millwork in accordance with AWI "Custom Grade" requirements. Where details are not shown, comply with applicable Quality Standards or with alternate details acceptable to Architect as fabricator's option.
3. Fabricate finished work properly framed, closely fit and accurately set to required lines and levels and rigidly secured in place.
4. Fabricate work straight, plumb, level and in true alignment; neatly and accurately fit, scribed and thoroughly secured. Plane and sand miters and other joints. Ease all square edges. Provide millwork clean and free from warp, twist, open joints and other defects.
5. Provide finished woodwork dressed and sanded free from machine and tool marks, abrasions, raised grain or other defects on surfaces exposed to view in finished work.

D. Finish:
Sayerlack Hydroplus Waterborne Clear, 5 sheen for spalted veneer

3.1 Installation

A. Install finish carpentry and millwork products plumb, level, true and straight with no distortion. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level (including countertops) and with 1/16" maximum offset in flush adjoining surfaces, 1/8" maximum offsets in revealed adjoining surfaces.
1. Scribe and cut finish carpentry and millwork products to fit adjoining work.
2. Anchor finish carpentry and millwork items to built-in place blocking, furnished under Section 06100, or directly attach to substrate framing. Secure to grounds, blocking and nailers with countersunk, concealed fasteners and blind nailing as required for a complete installation.
3. For installation of prefinished millwork wall panels, use finish nails for exposed nailing, installed with pneumatic nailer as per the following guidelines:
a. Nailer to be set for countersunk head approximately 1/8" on the face.
b. Use 16 ga straight finish nails in 2" length
c. Provide "dab" of construction adhesive on backside of panels at regular intervals.
d. Random placement preferred, do NOT group nails together.
e. No nails closer than 2" from any edge.
f. All nails to be no greater than 16-18" apart in any direction.
4. Touch-up shop finished materials marred or damaged during delivery, storage and installation with custom blended polyurethane to equal Minwax "Wipe on Poly".

B. Install casework without distortion so that doors and drawers will fit openings properly and be accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation.

C. Install plastic laminate countertops, shelving and trim. Provide work level, true to alignment, accurately fit to wall conditions and securely fastened to base units and other support systems as indicated.

SECTION 06605 - FIBERGLASS REINFORCED PLASTIC PANELS

1.1 General: Provide fiberglass reinforced plastic panels as shown and specified.

2.1 Materials:

A. Manufacturer: Marlite, (330) 343-6621, internet www.marlite.com, Email: info@marlite.com

B. Panel System: 'P6' Per Finish Schedule, Series: Standard FRP - "Marlite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: P100 White, Class A, pebbled matte surface texture. USDA approved for incidental food contact.
1. Panel trim: Extruded PVC, color matching panel color. Provide 1/2" x 1/2" inside corners, edge trim, and division moldings as required to complete the installation.
a. Inside Corner - M350
b. Outside Corner - M360
c. Division - M365
d. Edge - M370
2. Panel trim: Stainless Steel, color matching panel color. Provide 1-1/2" x 1-1/2" outside corners as required to complete the installation.
3. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant.
4. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces.

C. Panel System: 'P2' Per Finish Schedule, Series: Standard FRP - "Marlite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: S100G White, smooth matte surface texture. USDA approved for incidental food contact.
1. Panel trim: Extruded PVC, color matching panel color. Provide division moldings as required to complete the installation.
a. Edge - M370
2. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant.
3. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces.

D. Alternate panel spec: Color: S100 S/2/S White, smooth matte surface texture

3.1 Installation

A. Install the FRP system products using panel adhesive in accordance with the manufacturer's instructions and layout as shown in drawings.
1. Install panels plumb, level, true and straight with no distortion; providing a continuous bead of silicone sealant in each joint and trim groove and between trim and adjacent construction.
2. Provide corner trim, closure trim at intersections of dissimilar materials and moldings at abutting panels.

SECTION 07210 - BUILDING INSULATION

1.1 General: Provide building insulation as shown and specified.

2.1 Materials:

A. Extruded polystyrene foam rigid board insulation: Dow Chemical Co., 866-583-2583, internet www.dowbuildingmaterials.com
1. Type: Dow "Styrofoam" Type IV, 1.6 pcf minimum density, 25 psi compressive strength complying with ASTM C 578, R-value equal 5 per inch of thickness. Provide lengths and widths as required to coordinate with space insulated.
2. Perimeter foundation walls: Styrofoam SE, R-value indicated.

B. Glass fiber batt/blanket insulation: Owens Corning Corp., (800) 438-7465, internet www.owenscorning.com.
1. Type: Owens Corning " Thermal Batt" Type I unfaced glass fibers and binders formed into flexible blankets or batts complying with ASTM C665,. Provide lengths and widths required to coordinate with spaces insulated.
2. Exterior walls: Unfaced, R-value/thickness indicated

C. Vapor barrier membrane: Polyethylene, minimum 6 mils thick, complying with ASTM D 4397, maximum permeance rating of 0.13 perm.
1. Joint tape: Pressure sensitive tape designed for sealing joints and penetrations of above and below grade vapor barrier sheets.
2. Mounting tape: Double-faced pressure sensitive tape suitable for mounting vapor barriers to steel framing.

3.1 Installation:

A. General:
1. Install insulation in accordance with manufacturer's recommendations for conditions of installation indicated. Install insulation in single layer of required thickness over entire area to be insulated. Cut and fit tightly around obstructions. Fill all voids.
2. Install exterior wall insulation continuous behind electrical boxes, conduit, piping and ductwork.

B. Foundation perimeter walls and slabs:
1. Install rigid foam insulation vertically from top of slab to frost line or horizontally under slabs, extending a minimum 36" in from exterior walls.
2. Protect insulation from displacement and damage during backfilling and slab placement

C. Exterior Walls:
1. Install batt/blanket insulation full height at exterior wall framing. Use blanket widths and lengths that fill cavities formed by framing members and provide a friction fit between edges of insulation and metal framing members.
2. Provide galvanized wire mesh or metal strapping to provide supplementary support when required to maintain insulation in permanent proper location.

D. Vapor Barriers:
1. Install a single layer of vapor barrier membrane over the interior of exterior metal wall framing after installation of insulation. Secure with double faced tape at wall framing.
2. Provide single unspliced material height. Horizontal joints not acceptable. Minimize vertical joints. Lap vertical joints and secure in place with joints taped. Provide tape sealed contact with door frames, window frames, piping, conduit, ductwork, registers and the vapor barrier.
3. Seal all cuts and penetrations of vapor barrier membrane with tape before installing surface finishes.

SECTION 07240 -EXTERIOR INSULATION AND FINISH SYSTEM (PB)

1.1 General: Provide the exterior insulation and finish system (EIFS) as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. EIMA (EIFS Industry Members Association) Standards and Publications.
a. 101.01, 101.02, 101.03, 101.86, 105.01, 200.02.
b. EIMA "Guideline Specification for Expanded Polystyrene (EPS) Insulation board."
B. Quality Assurance:
1. System components:
a. Produced by a single manufacturer or by manufacturers approved by the EIFS system manufacturer.
b. Fire performance: Flame spread of 25 or less, smoke developed of 450 or less when tested in accordance with ASTM E84.
2. Installer Qualifications: Performed by the system manufacturer or an applicator trained and approved by the system manufacturer. During application, the work shall be inspected by system manufacturer's representative.

C. Environmental conditions: Comply with manufacturer's requirements. Do not install materials during wet or freezing weather.

2.1 Materials

A. Manufacturer: STO Corp., P: (800) 221-2397, internet www.stocorp.com
Strategic Accounts Manager: Ray Redmond, P: (616) 437-2230, rredmond@stocorp.com

B. Exterior insulation and finish system: Sto Class PB "StoTherm ci" EIFS.
1. Air/Moisture barrier: Sto Guard system.
a. Sto RapidGuard for rough opening protection, sheathing joints and inside and outside corners.
b. Sto Guard Mesh: Coated glass fiber fabric reinforcing mesh.
c. Sto Gold Coat: Waterproof Fluid Applied Air/Moisture Barrier
2. Primer/adhesive and base coat: Sto Primer/Adhesive-B, one-component, polymer modified, cement -based factory blended primer/adhesive used to attach insulation board to prepared sheathing substrates and as a base coat in Essence claddings.
3. Insulation board: ASTM C578 Type 1, nominal 1.0 lb/ft³ expanded polystyrene meeting EIMA Guideline specifications for EPS insulation board.
4. Finish coating: Sto Essence DPR, ready-mixed 100% acrylic-based, textured wall coating.
a. Medium/Fine Sand Finish.
b. Color as indicated on the Architectural drawings from manufacturer's full color range or match custom color.
5. System warranty: 10 year labor and material.

C. Portland cement: ASTM C150, Type I or II, white or gray in color.

D. Water: Clean, potable and free of foreign matter.

E. Reinforcing mesh: Sto open-weave glass fiber fabric with alkaline resistant coating.
1. Standard mesh: Sto Mesh, nominal 4.5 oz/yd² fabric.
2. Ultra-High impact mesh: Sto Armor Mat, nominal 15 oz/yd² ultra-high impact fabric.
3. Specialty mesh:
a. Sto Detail Mesh, nominal 4.2 oz/yd² flexible, symmetrical, interlaced glass fiber fabric.
b. Sto Corner Mat, nominal 7.8 oz/yd² pre-creased, heavy-duty, glass fiber fabric.

F. Joint sealants: StoSeal STPE Sealant complying with ASTM C920 and Section 07900 requirements.
1. Adhesion: Evaluated in accordance with ASTM C1382.
2. Color: Matching EIFS finish coating color, and visually acceptable to the Architect.

G. Accessories: Provide plastic stops and trim where indicated. Materials shall be compatible with EIFS materials and acceptable to EIFS manufacturer.
1. Starter Track: Rigid PVC plastic track with weepholes and drip edge.

3.1 Mixing

A. Mix materials in accordance with manufacturer's published instructions.
1. Mix with a clean, rust-free high speed mixer to a uniform consistency.
2. No rapid binder, anti-freeze or accelerator additives permitted.

4.1 Installation

A. Preparation:
1. Coordinate installation of roofing membrane, windows, doors and other wall penetrations to provide a continuous exterior wall air/moisture barrier.
2. Coordinate installation of windows, doors and window and door flashing to provide continuous exterior wall air/moisture barrier.
3. Install copings and joint sealants immediately after installation of the EIFS, when EIFS coatings are dry.

B. Installation: Install Sto Guard air/moisture barrier system and exterior insulation and finish system (EIFS) in strict accordance with manufacturer's installation instructions, complying with governing regulations and industry standards applicable to the work.
1. Back wrap exposed board edges with mesh.
2. Provide double wrap or corner mat reinforcing at all inside and outside corners.
3. Provide expansion joints in accordance with manufacturer's recommendations for type of substrates and systems required, and visually acceptable to the Architect.
4. Provide drainable starter track horizontal edge trim as base of wall, above windows and doors openings and beneath windows with concealed flashing.

C. Insulation and adhesive application:
1. Install insulation board with long edge horizontal using running bond pattern. Off set insulation joints with substrate joints. Stagger joints and interlock joints at corners.
2. Apply adhesive to insulation board with a stainless steel trowel notched trowel, providing vertical uniform ribbons of adhesive when board is installed. Mount insulation board on substrate. Level, align and tamp insulation in place. Provide uniform contact and bond with joints tightly butted. Rasp edges and high areas as required to produce a level, plane surface.

D. Base coat and reinforcing mesh application:
1. Apply detail mesh at corners of windows, doors, and all penetrations through the EIFS.
2. Standard mesh: Apply base coat over insulation board to a uniform 1/8 inch thickness, including high impact mesh where indicated. Embed standard reinforcing mesh into wet adhesive, lap edges at seams. Smooth surface until mesh is not visible. Allow to base coat to dry.
3. Ultra-High impact mesh: Apply base coat over insulation board to a uniform 1/8 inch thickness. Fully embed ultra-high impact reinforcing mesh into wet adhesive, butt edges at seams. Smooth surface until mesh is not visible. Allow to base coat to dry. Locate at 4'-0" wide perimeter of the rear service door to 6'-0" above grade and as indicated on Architectural drawings.

E. Apply finish coating continuously in one operation to the entire wall surface Provide a uniform finished appearance. Level and texture to the specified finish texture.

F. Install joint sealants at perimeter joints and joints within the system using elastomeric joint sealants, in accordance with drawing details and sealant manufacturer's recommendations.

SECTION 07250 - WEATHER BARRIERS

1.1 Section Includes

A. Weather barrier membrane
B. Seam Tape
C. Flashing
D. Fasteners

1.2 References

A. ASTM International
1. ASTM C920; Standard Specification for Elastomeric Joint Sealants
2. ASTM C1193; Standard Guide for Use of Joint Sealants
3. ASTM D882; Test Method for Tensile Properties of Thin Plastic Sheeting
4. ASTM D1117; Standard Guide for Evaluating Non-woven Fabrics
5. ASTM E84; Test Method for Surface Burning Characteristics of Building Materials
6. ASTM E96; Test Method for Water Vapor Transmission of Materials
7. ASTM E1677; Specification for Air Retarder Material or System for Framed Building Walls.
8. ASTM E2178; Test Method for Air Permeance of Building Materials

B. AATCC - American Association of Textile Chemists and Colorists
1. Test Method 127 Water Resistance: Hydrostatic Pressure Test

C. TAPPI
1. Test Method T-410; Grams or Paper and Paperboard (Weight per Unit Area)
2. Test Method T-460; Air Resistance (Gurley Hill Method)

1.3 Quality Assurance

A. Qualifications
1. Installer shall have experience with installation of commercial weather barrier assemblies under similar conditions.
2. Installation shall be in accordance with weather barrier manufacturer's installation guidelines and recommendations.
3. Source Limitations: Provide commercial weather barrier and accessory materials produced by single manufacturer.

1.4 Delivery, Storage and Handling

A. Refer to Section 01400 Quality Requirements.
B. Deliver weather barrier materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.
C. Store weather barrier materials as recommended by weather barrier manufacturer.

1.5 Scheduling

A. Review requirements for sequencing of installation of weather barrier assembly with installation of windows, doors, louvers and flashings to provide a weather-tight barrier assembly.
B. Schedule installation of weather barrier materials and exterior cladding within 9 months of weather barrier assembly installation.

2.1 Manufacturer

A. DuPont Building Innovations; 4417 Lancaster Pike, Chestnut Run Plaza 721, Wilmington, D19805;
1.800.44TYVEK (8-9835); http://constructiontyvek.com
Alternate: STO Corp., P: (800) 221-2397, internet www.stocorp.com

2.2 Materials

A. Basis of Design: Hi-performance, spunbonded polyolefin, non-woven, non perforated, weather barrier is based upon DuPont Tyvek CommercialWrap and related assembly components.
Alternate: StoGuard System, See Section 07240

B. Performance Characteristics:
1. Air Penetration: 0.001 CFM/feet squared at 75 Pa, when tested in accordance with ASTM E2178. Type I per ASTM E1677.
2. Water Vapor Transmission: 28 perms, when tested in accordance with ASTM E96 Method B.
3. Water Penetration Resistance: 280 cm when tested in accordance with AATCC Test Method 127.
4. Basis Weight: 2.7 oz/yard squared, when tested in accordance with TAPPI Test Method T-410.
5. Air Resistance: Air infiltration at >1500 seconds, when tested in accordance with TAPPI Test Method T-460.
6. Tensile Strength: 38/35 lbs/inch, when tested in accordance with ASTM D882, Method A.
7. Tear Resistance: 12/10 lbs., when tested in accordance with ASTM D1117.
8. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E 84. Flame Spread: 10, Smoke Developed: 10.

2.3 Accessories

A. Seam Tape: 3 inch wide, DuPont Tyvek Tape for commercial applications.

B. Fasteners:
1. For steel frame construction - DuPont Tyvek Wrap Cap Screws, as manufactured by DuPont Building Innovations: 1-5/8" rust resistant screw with 2-inch diameter plastic cap or manufacturer approved 1-1/4" or 2" metal gasketed washer.
2. For wood frame construction - Tyvek Wrap Caps, as manufactured by DuPont Building Innovations: #4 nails with large 1-inch plastic cap fasteners.
3. For masonry construction - masonry tap-con fasteners with Tyvek Wrap Caps as manufactured by DuPont Building Innovations: 2 inch diameter plastic cap fasteners.

C. Adhesives:
1. Provide adhesive recommended by weather barrier manufacturer.
2. Products:
a. Liquid Nails LN-109
b. Polyglaze SM 5700
c. Denso Butyl Liquid
d. 3M High Strength 90
e. SIA 665
f. Adhesives recommended by the weather barrier manufacturer.

D. Primers:
1. Provide flashing manufacturer recommended primer to assist in adhesion between substrate and flashing.
2. Product:
a. 3M High Strength 90
b. Denso Butyl Spray
c. SIA 655
d. Permagrip 105
e. ITW TACC Sta' Put SPH
f. Primers recommended by the flashing manufacturer.

E. Flashing:
1. DuPont FlexWrap, as manufactured by DuPont Building Innovations: flexible membrane flashing materials for window openings and penetrations.
2. DuPont Straightflash, as manufactured by DuPont Building Innovations: straight flashing membrane materials for flashing windows and doors and sealing penetrations such as masonry ties, etc.
3. DuPont Straightflash VF, as manufactured by DuPont Building Innovations: dual-sided straight flashing membrane materials for brick mold and non-flanged windows and doors.

3.1 Examination
A. Verify substrate and surface conditions are in accordance with weather barrier manufacturer recommended tolerances prior to installation of weather barrier and accessories.

3.2 Installation - Weather Barrier
A. Install weather barrier per regional requirements in accordance with manufacturer recommendations.
B Install weather barrier prior to installation of windows and doors.
C. Start weather barrier installation at a building corner, leaving 6-12 inches of weather barrier extended beyond corner to overlap.
D. Install weather barrier in a horizontal manner starting at the lower portion of the wall surface with subsequent layers installed in a shingling manner to overlap lower layers. Maintain weather barrier plumb and level.
E. Sill Plate Interface: Extend lower edge of weather barrier over sill plate interface 3-6 inches. Secure to foundation with elastomeric sealant as recommended by weather barrier manufacturer.
F. Window and Door Openings: Extend weather barrier completely over openings.
G. Overlap weather barrier
1. Exterior corners: minimum 12 inches.
2. Seams: minimum 6 inches.
H. Weather barrier Attachment:
1. For steel or wood frame construction - Attach weather barrier to studs through exterior sheathing. Secure using weather barrier manufacturer recommended fasteners, space 12-18 inches vertically on center along stud line, and 24 inch on center, maximum horizontally.
2. For masonry construction - Attach weather barrier to masonry. Secure using weather barrier mfr recommended fasteners, spaced 12-18 inches vertically on center and 24 inches maximum horizontally. Weather barrier may be temporarily attached to masonry using recommended adhesive, placed in vertical strips spaced 24 inches o.c., when coordinated on the project site.
I. Apply 4 inch by 7 inch piece of DuPont StraightFlash to weather barrier membrane prior to the installation cladding anchors.

3.3 Seaming

A. Seal seams of weather barrier with seam tape at all vertical and horizontal overlapping seams.
B. Seal any tears or cuts as recommended by weather barrier manufacturer.

3.4 Opening Preparation (for use with non-flanged windows - all cladding types)

A. Flush cut weather barrier at edge of sheathing around full perimeter of opening.
B. Cut a head flap at 45-degree angle in the weather barrier at window head to expose 8 inches of sheathing. Temporarily secure weather barrier flap away from sheathing with tape.

3.5 Flashing (for use with non-flanged windows - all cladding types)

A. Cut 9-inch wide DuPont FlexWrap a min of 12 inches longer than width of sill rough opening. Apply primer as required by mfr.
B. Cover horizontal sill by aligning DuPont FlexWrap edge within side edge of sill. Adhere to rough opening across sill and up jambs a minimum of 6 inches. Secure flashing tightly into corners by working in along the sill before a adhering up the jambs.
C. Fan DuPont FlexWrap at bottom corners onto face of wall. Firmly press into place. Mechanically fasten fanned edges.
D. Apply 9-inch wide strips of DuPont StraightFlash at jambs. Align flashing with interior edge of jamb framing. Start DuPont StraightFlash at head of opening and lap sill flashing down to the sill. Spray-apply primer to top 6 inches of jambs and exposed sheathing.
E. Install DuPont FlexWrap at opening head using same installation procedures used at sill. Overlap jamb flashing min 2 inches.
F. Coordinate flashing with window installation.
G. On exterior, install backer-rod in joint between window frame and flashed rough framing. Apply sealant at jambs and head. leaving sill unsealed. Apply sealants in accordance with sealant manufacturer's instructions and ASTM C 1193.
H. Position weather barrier head flap across head flashing. Adhere using 4-inch wide DuPont StraightFlash over the 45-degree seams.
I. Tape top of window in accordance with manufacturer recommendations.
J. On interior, install backer rod in joint between frame of window and flashed rough framing. Apply sealant around entire window to create air seal. Apply sealant in accordance with sealant manufacturer's instructions and ASTM C 1193.

3.6 Protection
A. Protect installed weather barrier from damage.

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Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.: CMG5134

Contents: ARCHITECTURAL SPECIFICATIONS

G012

SECTION 07512 - ROOFING SYSTEM REPAIR

1.1 General: When penetration of the existing roofing system is required to accommodate new construction, perform necessary roofing system repair.

A. Coordination: Before starting work, verify with the Tenant's Construction Manager and the Owner the following:
1. Existing roof system materials and installation methods.
2. Repair work responsibilities and warranty requirements. To maintain original warranty, where provided use original roof contractor.

B. Qualifications: Repair work shall be performed only by an experienced roofing installer approved or licensed by the existing roofing system materials manufacturer; with not less than five years of successful experience installing and repairing roofing systems similar to this projects existing roofing system.

2.1 Materials:

A. Provide and install only materials approved and recommended by the roofing manufacturer for repairing the existing roofing system.

NOT USED

3.1 Installation:

A. Preparation: Inspect roof surface conditions with roof manufacturer's representative to verify extent and location of any other repairs required to ensure a watertight roofing system upon completion of the repair work.

B. Make necessary repairs. Match existing roof slope, insulation materials and roofing membrane materials, except as otherwise approved by the existing roofing system manufacturer to accommodate new construction and repair work.

C. Install curb flashing furnished by mechanical and electrical trades for new roof top equipment.

SECTION 07540 - THERMOPLASTIC MEMBRANE (PVC) ROOFING

1.1 General: Provide the thermoplastic membrane (PVC) roofing system as shown and specified.

A. Standards: Materials and construction shall conform to following:
1. ASTM D5036 "Application of Adhered Poly(Vinyl Chloride) Sheet Roofing."
2. FM 1-29 Loss Prevention Data Adhered or Mechanically Attached Single Ply Membrane Roof Systems."
3. NRCA "Single-Ply Roofing Membrane."
4. UL "790 - Tests for Fire Resistance of Roof Covering Materials."

B. Installer Qualifications: An experienced roofing installer approved by roofing system manufacturer and with not less than five years of successful experience installing membrane roofing systems similar to those required for this project.

C. Deliver, store and handle roof system materials in accordance with manufacturer's recommendations to avoid damage and deterioration.
1. Comply with manufacturer's recommendations for handling and protection during installation.

D. Install roofing work only when weather conditions are in compliance with manufacturer's specific environmental requirements and conditions will permit work to be performed in accordance with manufacturer's recommendations and warranty requirements.
1. Protect adjacent materials and surfaces from damage and soiling during roofing system installation.
2. Provide special protection on completed roofing work.
3. Protect paving and structure walls adjacent to hoists before starting work.
4. Do not overload the building structure with storage of materials or installation equipment on the substrate decking.

E. Warranty
1. Contractor and roof system installer shall jointly warrant roofing materials and installation for a period of two years from the date of Substantial Completion. Warranty shall include roofing membrane, flashing, roof insulation, roofing accessories and sheet metal work provided under Section 07600.
2. Manufacturer's warranty: Submit executed copy of roofing system manufacturer's 15 year total system warranty, including labor and materials for the entire roof system. Including perimeter edge metal, Section 07600 Flashing & Sheet Metal

2.1 Materials

A. Manufacturer: Duro-Last Roofing, Inc, (800)248-0280, Austin Russell, austin.russell@holcim.com, www.duro-last.com
1. Basis of Design Product Roofing System
a. Thermoplastic single ply membrane roofing system: DL Membrane (PVC) fully adhered, smooth surface, UL Class A fire-rated single ply membrane roofing system.
b. Thermoplastic fiber reinforced PVC membrane, not less than 40 mils (.040), complying with ASTM D4434 and membrane manufacturer's published physical properties.

B. Comparable Alternate Roof Manufacturers:
1. Versico Roofing Systems, (480) 528-6923, Jeff Kelly, jeff.kelly@versico.com
a. VersiFlex PVC Adhered System
2. Other comparable alternates can be considered when approved by Arch PM and Chipotle DM/CM.

C. The roof covering design must resist a wind load of 100 mph, Exposure C and shall resist impact damage based on results of tests based on the results of tests conducted in accordance with ASTM D 3746, ASTM D 4272, CGSB 37-GP-52M or FM 4470
1. Insulation cover board: Georgia-Pacific Corp. (800) 284-5347, internet www.gp.com, "Dens-Deck" nonstructural fiberglass- faced, silicone-treated gypsum core panels, 1/2"" thickness.
2. Roof insulation: Rigid closed cell polyisocyanurate boards approved by the membrane manufacturer; complying with ASTM C1289, Type II, minimum 20 psi compressive strength, aged R-value equal 5.6 per inch of thickness.
a. Provide a double layer installation. Minimum total R-value as indicated on plans.
b. Specified perimeter edge metal shall be compliant with International Building Code ANSI / SPRI ES-1, ER2 testing requirements.
3. Flashing: Roof system manufacturer's standard sheet flashing of same material, type, and color as sheet membrane. Specified perimeter edge metal will be compliant with International Building Code ANSI / SPRI ES-1, RE2 testing requirements.
4. Membrane Bonding Adhesive: Roof system manufacturer's standard membrane bonding adhesive.
5. Insulation and Cover Board Adhesive: Dow Chemical Company, (888) 868-1183, internet www.flexibeproducts.com, "INSTA-STIK Professional Roof Insulation Adhesive", a single component, moisture cured polyurethane adhesive.
6. Fasteners: Roof system manufacturer's standard fasteners for project conditions indicated.
7. Accessories: Roof system manufacturer's recommended pourable sealers, preformed penetration flashing, preformed corner flashing, seam caulk, termination bars and other accessories required for substrate surfaces and installation conditions indicated.
8. Traffic walkways: Duro-Last Roof Track II walkway pads.3.1 Installation

3.1 Installation

A. Preparation:
1. Clean substrate surfaces of debris and other substances detrimental to roofing installation.
2. Correct unsatisfactory conditions before starting roofing. Roof deck surface conditions shall comply with manufacturer's requirements and be acceptable to the roofing system installer.

B. Installation:
1. General: Provide roofing system materials and installation complying with roofing system manufacturer's instructions and governing codes and regulations.
a. Mix and apply roof insulation and cover board adhesive in strict accordance with the adhesive manufacturer's installation instructions. Dispense adhesive at manufacturer's recommended application rate using approved dispensing equipment.
2. Roof insulation.
a. Extend insulation full thickness over entire surface to be insulated. Cut and fit around obstructions; fill all voids with insulation. Provide saddles and tapered edges as required to provide positive proper drainage.
b. Install and secure in place with insulation adhesive, a double layer of insulation units of the required thickness. Run long joints of insulation in continuous straight lines, perpendicular to roof slope, with end joints staggered between rows. Stagger joints of each layer of insulation. Butt edges to moderate contact. Limit joints between adjacent units to maximum 1/4".
3. Insulation cover board: Install and secure in place with insulation adhesive a single layer of insulation cover board on installed roof insulation. Secure cover board in accordance with membrane manufacturer's recommendations. Stagger joints with joints of roof insulation.
4. Thermoplastic membrane: Comply with membrane manufacturer's instructions and recommendations for handling and installing single ply membrane roofing.
a. Unroll and position roofing sheet membrane without stretching. Align top sheet with pr-marked lines on bottom sheet. Allow membrane to "relax" for at least 30 minutes before adhering, splicing and flashing.
b. Adhere membrane to insulation cover board with bonding adhesive. Broom bonded membrane to achieve maximum contact.
c. Join membrane seams using approved heat welding equipment. Check all splices for voids and repair voids with heat gun and roller.
d. When required, mechanically fasten membrane at roof perimeter, curb flashing and similar penetrations in accordance with manufacturer's installation instructions.
e. Flash and make weathertight all equipment curbs, pipes, conduits, drains and other penetrations or projections through sheet roofing using roofing system manufacturer's recommended flashing materials, accessories and procedures.
5. Install roof accessories and traffic walkways in accordance with manufacturer's instructions.
6. Install sheet metal work furnished under section 07600.

SECTION 07600 - FLASHING AND SHEET METAL

General:

A. Standards: Materials and construction shall conform to following:
1. SMACNA "Architectural sheet Metal Manual- 1993."
B. Installation: Performed under Section 07540 work.

1.1 Pre-manufactured perimeter edge metal and accessories

Manufacturer: Duro-Last Roofing / Exceptional Metals, Inc, (800) 248-0280, Jason Dark, www.Duro-Last.com

A. Duro-Last / Exceptional Metals Snap Coping made of 24-gauge galvalume, cover provided with Kynar architectural finish providing a 35 year finish warranty. Meets ANSI/SPRI ES-1 2003 method RE-2 testing requirements. (Color - Refer to Exterior Elevations)
B. Duro-Last / Exceptional Metals Vinyl backed scupper. Scupper profile & size indicated Fig 1-20.

1.2 General: Miscellaneous sheet metal

A. Standards: Materials and construction shall conform to following:
1. SMACNA "Architectural sheet Metal Manual- 1993."
B. Installation: Performed under Section 07540 work.

2.1 Materials:

A. Galvanized steel: ASTM A653 commercial quality sheet steel with 0.2% copper, G90 hot-dip galvanized. Gage indicated.
1. Scuppers: Minimum 16 gage.
2. Coping/Wall caps: Minimum 18 gage.
B. Aluminum sheet: ASTM B209 alloy 3003, temper as required for forming and performance. Thickness indicated.
1. Conductor Boxes: Minimum 0.040"thickness.
2. Downspouts: Minimum 0.025"thickness.
C. Joint sealers: One-component silicone elastomeric joint sealant complying with ASTM C920. Color matched to sheet metal finish.
D. Metal accessories: Provide sheet metal fasteners, clips, straps, anchoring devices and similar accessory units as required for installation of work, matching or compatible with material installed, non-corrosive, size and gage as required for performance and acceptable to the Architect.
E. Fabrication: Shop fabricate sheet metal work to comply with profiles and sizes indicated and to comply with standard industry standards as shown by SMACNA in the "Architectural Sheet Metal Manual."
1. Conductor boxes: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated Fig 1-25.
2. Scuppers: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated Fig 1-20.
3. Downspouts: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated. Installation Fig. 1-31 with strap hanger Fig. 1-35.
4. Formed coping/wall caps: SMACNA Chapter 3 - Copings. Design Fig 3-1. Profile and size indicated with Fig. 3-3 butt joints and concealed back-up plates. Install formed copings with continuous cleat fasteners similar to Fig 3-1 at exposed face and screw fasteners with washers space maximum 24" on center at roof side.

3.1 Installation:

A. Preparation: Coordinate sheet metal work with other work for the correct sequencing of items which make up the entire roof system of weatherproofing and rain drainage:
B. Installation: Comply with SMACNA "Architectural Sheet Metal Manual" recommendations, drawing details and approved shop drawings for installation of the work.
1. Anchor sheet metal items securely in place by methods indicated, providing for thermal expansion. Conceal fasteners and expansion provisions whenever possible. Install joint sealants where required.
2. Set units true to lines and levels indicated. Install work with sealed laps, joints and seams that will be permanently watertight and weatherproof. Bed flanges of sheet metal work in thick coat of roofing cement or sealant compatible with roofing membrane.
3. Separate sheet metal work from dissimilar metals and treated wood materials. Provide rosin-sized paper slipsheet over treated wood.
4. Fabricate, support and anchor conductor boxes and downspouts to withstand thermal expansion, stresses and full loading by ice or water without damage, deterioration or leakage.

SECTION 076113 - SHEET METAL WALL PANELS

1.1 General:

A. Standards:
1. Furnish all labor, material, tools, equipment and services for all preformed fascia and wall panels as indicated, in accord with provisions of Contract Documents.
2. Completely coordinate with work of all other trades.
3. Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation.

B. Related work specified elsewhere:

1. Structural steel: Section 05100
2. Steel joists: Section 05200 or 05400
3. Flashing and sheet metal: Section 07600

1.2 Quality Assurance:

A. Applicable standards:
1. SMACNA: "Architectural Sheet Metal Manual" Sheet Metal and Air Conditioning Contractors National Association, Inc.
2. AISC:"Steel Construction Manual" American Institute of Steel Construction.
3. AISI: "Cold Form Steel Design Manual: American Iron and Steel Institute.
4. ASTM A792-83-AZ50: Specifications for steel sheet, aluminum-zinc alloy coated (galvanized) by the hot dip process, general requirements (Galvalume).

B. Manufacturer's qualifications:
1. Manufacturer has a minimum of three years experience in manufacturing metal wall systems of this nature. Panels specified in this section shall be produced in a factory environment (not job site roll formed) with fixed base roll forming equipment assuring the highest level of quality control. A letter from the manufacturer certifying compliance will accompany the product material submittals.

1.3 Product Delivery, Storage and Handling:

NOT USED

A. Delivery: Deliver metal wall system to job site properly packaged to provide protection against transportation damage.
B. Handling: Exercise extreme care in unloading, storing and erecting metal wall system to prevent bending, warping, twisting and surface damage.
C. Storage: Store all materials and accessories above ground on well skidded platforms. Store under waterproof covering. Provide proper ventilation of metal wall system to prevent condensation build up between each panel or trim/ flashing component.

2.1 Materials

A. Metal wall system profile:
1. Shadow Rib: 3 inch deep x 16 inch width with 1 1/2 inch deep x 5 1/4 inch wide fluting
B. Metal wall system style:
1. Fluted face
2. Concealed fasteners
C. Gauge: 24 gauge
D. Substrate: Per Plans
E. Texture: Smooth
F. Finish: Premium thermoset silicone polyester (20 year warranty)
G. Color: Polar White, to be painted per Exterior Elevations
H. Acceptable Manufacturer: MBCI Houston, Texas (281) 445-8555.

3.1 Surface Conditions

A. Examination:
1. Inspect installed work of other trades and verify that such work is complete to a point where this work may continue.
2. Verify that installation may be made in accordance with approved shop drawings and manufacturer's instructions.

3.2 Installation

A. Install metal wall system system so that it is weathertight, without waves, warps, buckles, fastening stresses or distortion.
B. Install metal wall system in accordance with manufacturer's instructions and shop drawings.
C. Provide concealed anchors at all panel attachment locations.
D. Install panels plumb, level and straight with seams parallel, conforming to design as indicated.

3.3 Cleaning, Protection

NOT USED

A. Dispose of excess materials and remove debris from site.
B. Clean work in accordance with manufacturer's recommendations.
C. Protect work against damage until final acceptance. Replace or repair to the satisfaction of the architect and work that becomes damaged prior to final acceptance.
D. Touch up minor scratches and abrasions.

3.4 Field Painting

A. Refer to section 09900 on G017
B. Follow manufacturer's technical bulletin for Precoated Signature 200 MBCI wall panels.

Section 07900 – JOINT SEALERS

1.1 General: Provide joint sealers as shown and specified.

A. Standards:Comply with ASTM C 920 requirements.

B. Application: Performed by skilled, experienced joint sealer applicators.

2.1 Materials:

A. Poly urethane sealants:
1. Tremco Commercial Sealants (800) 321-7906, internet www.tremcosealants.com,
a. "Dymonic FC" One component, fast skinning, Low Modulus Polyurethane.
b. "Dymeric 240 FC" Multi Component, gun grade, chemically curing, tintable fast setting polyurethane sealant.
2. Sonneborn, (724) 756-9582, internet www.sonneborn.com
a. Color pack for polyurethane multi component, gun grade chemically curing sealant.

B. Silicone Sealants:
1. General Electric Silicones, (800) 295-2392, internet www.gesilicones.com
a. "SCS1700 Sanitary – Mold/Mildew Resistant Silicone", one component 100% silicone, fungicidal based sealant.
b. "SCS2700 Silpruf Silicone" one component medium modulus, natural cure silicone all purpose sealant.
c. "Silglaze II SCS2800- Glazing Sealant" one component, 100% silicone based sealer.
d. "GE Paintable Silicone" one component paintable silicone.
e. "SCS1009 Silicone Sealant" one-component acetoxy silicone for general purpose sealing and bonding
2. Dow Corning Silicones, (989)496-4000, www.dowcorning.com
a. "Dow 795" – one component, medium modulus, natural cure silicone.

C. Firestopping Sealants: 3M Fire Protection Products, (800) 328-1687, internet www.3M.com/firstop
1. "3M Fire Barrier CP 25WB+ Caulk" or approved equal

D. Joint backing: Non-absorptive, non-staining compressible, non-gassing, polyethylene foam backer rod compatible with joint sealants.

3.1 Installation:

A. Preparation: Clean and prepare joints prior to installing sealers:
1. Wipe shipping oils from surfaces to be sealed. Remove protective films and/or install joint backer rod if joint is larger than ¼" in width.

B. Installation: Install joint sealant materials in strict accordance with manufacturer's installation instructions.
1. Apply sealants in a uniform, continuous bead without gaps or air pockets. Hand tool and finish all joints so that a smooth, small, lip free uniform line is created along the substrate being shot. Remove any excess materials from tooled edges and ends of joint.
2. Install joint sealants to a depth no more than ½ the width of the joint.
3. Install sealants by proven techniques that result in sealants directly contacting and fully wetting joint substrates, completely filling recesses provided for each joint configuration, and providing uniform, cross-sectional shapes and depths relative to joint widths which allow optimum sealant movement capability.
4. Immediately, after sealant application, and prior to time skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated to eliminate air pockets, and to ensure contact and adhesion of sealant with sides of joint. Remove excess sealants from surfaces adjacent to joint. Do not use tooling agents which discolor sealants or adjacent surfaces or are not approved by sealant manufacturer.
5. Clean off excess sealants or sealant smears adjacent to joints as work progresses by methods and with cleaning materials approved by manufacturers of joint sealers and of products in which joints occur.

4.1 Sealant Schedule:

A. Kitchen Area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Ceiling grid to FRP wall panels
2. Base of FRP wall panels to T.O. specified base material.
3. Walk in cooler walls to FRP wall panels.
4. Stainless closure pieces at cooler walls to FRP wall panels.
5. FRP/stainless corner guards to FRP wall panels.
6. Ceiling tile pipe penetrations.
7. Wall pipe penetrations and/or escutcheons perimeters. (water & gas lines).
8. Mop sink stainless surround perimeter to walls.
9. FRP closure panel, at top of cooler, to cooler walls.
10. FRP wall panels to hollow metal door frames.
11. Coke line bundle to PVC cap.
12. FRP inside corner pieces to FRP wall panels. Both sides of corner piece.
13. Battery backup cover panel to FRP.
14. Faucet's to FRP wall panels.
15. FRP wall panels to quarry tile cove base.
16. FRP to aluminum plate at walk thru.
17. Menu board light bracket to ceiling.
18. Mop sink base at quarry tile.
19. All sinks (multi-compartment, hand, mop and prep) to FRP/tile walls.
20. Paper towel dispensers & soap dispensers to FRP/tile walls.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Stainless closer pieces, at sides of cooler walls - to cooler walls.
2. Stainless or aluminum plate closure pieces to diamond plate at cooler walls.
3. Diamond plate panel seam joints.
4. Diamond plate perimeter to cooler walls.
5. Base of diamond plate to quarry tile cove base.
6. Stainless closure panel, at top of cooler walls, to cooler walls.
7. Top of quarry tile cove base to cooler walls at inside of cooler.
8. Cooler wall/diamond plate penetrations.
9. Cooler door hinges and handles to diamond plate. DO NOT caulk door locking unit.
10. Stainless wrap at hollow metal door frame.
11. Stainless mop surround to stainless corners on mop sink.
12. Base of stainless corner pieces to schlutter strip at base.
13. Exit door threshold perimeters. To frame and floor, interior and exterior.

- Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
1. Base of hollow metal door jambs to quarry tile floor.

B. Managers Office:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Ceiling grid to FRP wall panels.
2. Perimeter of manager's desk to FRP wall panels.
3. Hollow metal door frame to FRP wall panels.
4. Top and ends of coat hanger bracket to FRP walls.
5. Base of FRP wall panels to quarry tile base.
6. Ceiling tile wire/pipe penetrations.
7. FRP inside corners to FRP wall panels. Both sides of corner piece.
8. Base of FRP wall panels to quarry tile.

- Provide a continuous bead of black or light bronze (use color of safe) GE SCS2000 silicone at the following locations:
1. Base of safe to floor.

C. Cooking Area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Top of wall tile to sheetrock ceiling.
2. Ceiling diffusers perimeters to sheetrock ceiling.
3. Ceiling pipe penetrations.
4. Wall tile to aluminum walk thru surround.
5. Tile wall penetrations/escutcheons perimeters.
6. FRP wall panels to sheetrock ceilings.
7. FRP wall panels to aluminum end wall plates.
8. FRP inside corners to FRP wall panels. Both sides of corner piece.
9. Sink to white wall tile.
10. Paper towel dispenser/soap dispenser to white tile.
11. POS/Serving counter to wall tile.
12. Stainless shelf behind grill to wall tile.
13. Faucets to ceramic wall tile.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Joint between hood and closure skirt.
2. Joint between hood support and hood. Both sides.
3. Connection joint between stainless shelf behind grill.
4. Hood to tile walls & sheetrock ceiling.
5. Hood gusset to wall tile on both sides.
6. Sink to bronze wall tile.
7. Paper towl dispenser/soap dispenser to bronze tile.
8. DML counter to bronze tile.

- Provide a continuous bead of dark gray GE SCS2000 at the following locations:
1. Base of equipment to concrete curbs/quarry tile.

- Provide a continuous bead of bronze GE SCS2097 at the following locations:
1. Ceramic tile inside corners.
2. Ceramic tile to aluminum end wall plates.

D. Restrooms:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Top of FRP to sheetrock ceiling or top of FRP trim to sheetrock wall.
2. Perimeter of toilets/urinals to floor or FRP.
3. Perimeter of mirror to FRP.
4. Sink to wall.
5. Perimeter of paper towel/garbage unit to wall.
6. Toilet paper/napkin disposals units to walls.
7. Stainless shelf to wall.
8. Wall penetrations under sink and or escutcheons to perimeters.
9. Hollow metal door frames to FRP.
10. Base of FRP wall panels to top of wall base.
11. FRP inside corners to FRP wall panels.

- Provide a continuous bead of black GE SCS2000 silicone at the following locations:
1. Base of black rubber wall base to floor.

- Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
1. Base of hollow metal door frames to floor.

E. Dining area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Wall tile to sheetrock walls.
2. Perimeter of aluminum storefront/windows/entrances to sheetrock walls.
3. Wainscot wall panels (Stonewood or other) to painted walls.
4. Diffuser/louvers perimeters to sheetrock walls.
5. Hollow metal door frames to painted walls - if needed.
6. Frame of service line counter to tile (joint to be caulked behind front face panels of counter).
7. Wall tile at serving line wall to POS counter.

- Provide a continuous bead of black GE SCS2000 silicone at the following locations:
1. Base of black rubber to floor (concrete or quarry tile) and gyp. bd. wall.
2. Wainscot (Stonewood or other) wall panels to sill of aluminum storefront/ windows.
3. Vertical joints of wainscot (Stonewood or other) wall panels to frames/painted walls/tile (ONLY if joint is uneven or plywood is showing).
4. Stonewood panels at serve line.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Base of garbage surround to floor.

- Provide a continuous bead of Dow 795 silicone at the following locations:
1. Sill of aluminum storefronts to concrete or tile floor. Color to be determined per store to match storefront (Charcoal/Anodized Aluminum/Dark Bronze).

F. Utensil Counter:
- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Stainless countertop to backsplash. Horizontal & vertical joints.
2. Base of Coke machine to countertop.
3. Perimeter of tea drain tray to countertop.
4. Stainless backsplash to white tile walls/painted walls.

- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Coke line bundle to PVC cap.

G. Fire Rated Walls:
- Provide a continuous bead of 3M 25WB+ at the following locations:
1. Wall/ceiling penetrations in rated walls.

H. Exterior Joints:
- Provide a continuous bead of Tremco Dymeric limestone urethane sealant at the following locations:
1. Sidewalk/concrete expansion joints.

- Provide a continuous bead of Dow 795 silicone or Tremco Dymeric 240 FC at the following locations:
1. Hollow metal door frames.
2. EIFS to abutting services.
3. Penetrations in EIFS.
4. Face brick or block control joints.
5. Perimeter of Aluminum Storefronts.
*Colors to be determined per store to match adjacent material colors. Verify with Chipotle Construction Manager and Architect.
- For "Fog" EIFS use Tremco - "Natural White"
- For "Knight's Armor" EIFS use Sonneborn - "Charcoal Gray" #276-U
- For white brick use Tremco - "China White"
- Provide a continuous bead of aluminum GE SCS1009 silicone at the following location:
1. CO2 fill port stainless box.
2. Faucet for hose. (Please note: color to be determined per store. Verify with Chipotle Construction Manager and Architect).

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REVISION 1 - 7/1/24

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Contents:
ARCHITECTURAL SPECIFICATIONS

G013

DIVISION 8 - DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

1.1 General: Tenant to provide steel doors and frames as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. ANSI A250.8-2009 "Specifications for Standard Steel Doors and Frames."
2. ANSI A250.11-01 "Erection Instructions for Steel Frames."
3. SDI 122-99 " Installation for Standard Steel doors and Frames.

B. Manufacturer: A member of the Steel Door Institute (SDI).

2.1 Materials:

A. Steel Doors:
1. Interior: Heavy-duty Level 2, physical performance B, Model 2 seamless construction, ASTM A1008, 18 gage cold-rolled steel face sheets, manufacturer's standard core.

2. Exterior: Extra heavy-duty Level 3, physical performance A, Model 2 seamless construction, ASTM A1008, 16 gage cold-rolled steel face sheets; tops and bottoms closed with flush galvanized steel caps, manufacturer's standard plastic foam insulating core.

B. Steel Frames: ASTM A1008, 16 gage cold-rolled steel.
1. Provide combination buck, jamb and trim type frames for 1-3/4" thick doors, unless otherwise indicated.
2. Interior and exterior frames: Set-up welded type with mitered corners, reinforced, fully seam welded with exposed welds ground smooth.

C. Door and frame fabrication:
1. Provide cutouts for mortised hardware, accurately located and made to fit hardware. Provide closer reinforcement for all doors with surface mounted door closers.
2. Punch frames and factory install rubber door silencers.
3. Provide minimum three anchors of suitable design for each jamb.
4. Provide floor clip on bottom of each jamb. Provide angle spreaders at bottom of each set-up frame.

D. Shop painting: Clean and paint exposed surfaces of steel door and frame units. Apply one baked-on shop coat of rust-inhibitive prime paint in accordance with ANSI A250.10, unless doors and frames are used at the restrooms or as indicated on door hardware and finish schedule. Provide a uniformly finished surface ready to receive finish paint.

3.1 Installation:

A. Install frames plumb, level, rigid, and in true alignment as recommended in ANSI A250.11.

B. Install doors plumb and in true alignment and fastened to achieve the maximum operational effectiveness and appearance as recommended in SDI 122.

SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

1.1 General: Provide aluminum entrances and storefronts as shown and specified.

1.2 Related Documents:

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this section.

B. Standards: Materials and construction shall conform to the following:
1. AAMA SFM-1-87 "Aluminum Storefront and Entrance Manual."

1.3 Summary:

A. Section Includes:
1. Kawneer Architectural Aluminum Storefront Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront units.
a. Types of Kawneer Aluminum Storefront include:
(1.) Trifab 601T Storefront System - 2" x 6" nominal dimension; Thermal; Center-Set
(2.) Trifab VG 451T Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set

2. Kawneer Aluminum Entrances, glass and glazing, and components
a. Types of Kawneer Aluminum Entrances include;
(1.) 500 Swing Door; Wide stile, 5" vertical face dimension, 1-3/4" depth, high traffic applications or as indicated on Drawings.

3. Kawneer Tube for Feature Exterior Slat Wall

4. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.
a. YKK
(1.) YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal
(2.) YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
b. Oldcastle
(1.) Series 6000XT Storefront System - 2" x 6" nominal dimension; Thermal
(2.) Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
c. US Aluminum
(1.) Series FT601 - 2" x 6" nominal dimension; Thermal
(2.) Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
d. EFCO
(1.) Series 406 (T) Storefront System - 2" x 6-1/2" nominal dimension; Thermal
(2.) Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal
e. Wausau
(1.) TU24650 Storefront System - 2" x 6-1/2" nominal dimension; Thermal
(2.) TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal

1.4 Performance Requirements:

A. General Performance: Aluminum-framed storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction;
1. Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 6.5, "Method 2-Analytical Procedure," based on mean roof heights above grade indicated on Drawings.
a. Basic Wind Speed (MPH): Determine to meet local codes listed on A000
b. Importance Factor: (1.00)
c. Exposure Category (A, B, C, D): Determine to meet local codes listed on A000

B. Storefront System Performance Requirements:
1. Wind loads: Provide storefront system; include anchorage, capable of withstanding inward and outward wind load design pressures meeting local codes listed on sheet A000.
2. Air Infiltration:
a. Air Infiltration for storefront frame system: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft. sq. at a static air pressure differential of 6.24 psf.
b. Air Infiltration for storefront entrances: For single acting offset pivot or butt hung entrances in the closed and locked position, the test specimen shall be tested in accordance with ASTM E 283 at a pressure differential of 6.24 psf (300 Pa) for single doors and 1.567 psf (75 PA) for pairs of doors. A single 3'0" x 7'0" entrance door and frame shall not exceed 0.50 cfm per square foot. A pair of 6'0" x 7'0" entrance doors and frame shall not exceed 1.0 cfm per square foot.
3. Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 8 psf as defined in AAMA 501.
4. Uniform Load: A static air design load of 20 psf shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no defection in excess of L/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.
5. Thermal Transmittance (U-factor): When tested to AAMA Specification 1503, the thermal transmittance (U-factor) shall be not more than:
a. Glass to Exterior - 0.47 (low-e)
6. Condensation Resistance (CRF): When tested to AAMA Specification 1503, the condensation resistance factor shall not be less than:
a. Glass to Exterior - 70 frame and 69 glass (low-e)
7. Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC): When tested to AAMA Specification 1801 and in accordance with ASTM E1425 and ASTM E90, the STC and OITC Rating shall not be less than:
a. Glass to Exterior - 38 (STC) and 31 (OITC)

1.5 Submittals:

A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of aluminum frame storefront system and storefront entrance doors indicated.

B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to work, operational clearances and installation details.

C. Samples for Initial Selection: For units with factory-applied color finishes including samples of hardware and accessories involving color section.

1.6 Quality Assurance

A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope

B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of rest reports, and calculations.

C. Source Limitations: Obtain aluminum framed storefront system and storefront entrance doors through one source from a single manufacturer.

D. Product Options: Drawings indicate size, profiles, and dimensional requirements of aluminum framed storefront system and are based on the specific system indicated. Do not modify size and dimensional requirements.
1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

1.7 Project Conditions:

A. Field Measurements: Verify actual dimensions of a aluminum framed storefront openings by field measurements before fabrication and indicate field measurements on Shop Drawings.

1.8 Warranty

A. Manufactures Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.
1. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.

2.1 Manufacturers:

A. Manufacturer: Kawneer Company Inc., Contact: Doug Hess, Phone: 317-771-9265; email:doug.hess@arconic.com

1. Basis-of-Design Product Storefront Framing:
a. Trifab 601T (thermal) Storefront System
i. 2" x 6" System Dimensions
ii. Glass: Exterior (Center-Set)
b. Trifab 451T (thermal) Storefront System
i. 2" x 4-1/2" System Dimensions
ii. Glass: Exterior (Front-Set)

2. Basis-of-Design Product Storefront Entrances:
a. The door stile and rail face dimensions of the 500-Wide Stile entrance door will be as follows or as indicated on Drawings: Door: 500; Vertical Stile: 5"; Top Rail: 5"; Bottom Rail: 10"
b. Major portions of the door members to be 0.125" nominal in thickness and glazing molding to be 0.05" thick.
c. Glazing gaskets shall be either EPDM elastometric extrusions or a thermoplastic elastomer.
d. Provide adjustable glass jacks to help center the glass in the door opening.

3. Basis-of-Design Product Feature Exterior Slat Wall:
a. Kawneer Tube #027881 (1" x 3"), capped at top and bottom
i. Alternate Exterior Slat Wall only when approved by Arch PM and Chipotle DM.
1. Architechural Fabrication

B. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.
1. YKK
a. YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal
b. YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
2.. Oldcastle
a. Series 6000XT Storefront System - 2" x 6" nominal dimension; Thermal
b. Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
3.. US Aluminum
a. Series FT601 - 2" x 6" nominal dimension; Thermal
b. Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
4. EFCO
a. Series 406 (T) Storefront System - 2" x 6-1/2" nominal dimension; Thermal
b. Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal
5. Wausau
a. TU24650 Storefront System - 2" x 6-1/2" nominal dimension; Thermal
b. TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal

2.2 Materials:

A. Provide aluminum entrances and storefront matching the existing building aluminum entrances and storefronts, unless otherwise indicated.

B. Aluminum Frame Extrusions: Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.070" wall thickness at any location for the main frame and complying with ASTM B 221: 6063-T6 alloy and temper.

C. Aluminum Storefront Entrance Extrusions:Alloy and temper recommended by aluminum-framed glass door manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.090" wall thickness at any location for the main frame and sash members.

D. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum window and door members, trim hardware, anchors, and other components.

E. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions, or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.

F. Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chrome-plated steel complying with ASTM B 456 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.

G. Sealant: For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.

H. Tolerances: Reference to tolerances for wall thickness and other cross-section dimensions of storefront members are nominal and in compliance with AA Aluminum Standard Data.

2.3 Storefront Framing System:

A. Thermal Barrier: Thermal Break shall be designed in accordance with AAMA TIR-A8 and tested in accordance with AAMA 505.
1. Kawneer IsoLock Thermal Break with a 1/4" separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.

B. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with non-staining, nonferrous shims for aligning system components.

C. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, non-staining, non-bearing fasteners and accessories compatible with adjacent materials. Where exposed shall be stainless steel.

D. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.

E. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

F. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle storefront material and components to avoid damage. Protect storefront material against damage from elements, construction activities, and other hazards before, during and after storefront installation.

2.4 Glazing Systems:

A. Glazing: As specified in Section 08800 - Glazing.

B. Glazing Gaskets: Manufacturer's standard compression types; replaceable, extruded EPDM rubber.

C. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.

D. Bond-Breaker Tape: Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.

E. Glazing Sealants: For structural-sealant-glazed systems, as recommended by manufacturer for joint type, and as follows:
1. Structural Sealant: ASTM C 1184, single-component neutral-curing silicone formulation that is compatible with system components with which it comes in contact, specifically formulated and tested for use as structural sealant and approved by a structural-sealant manufacturer for use in aluminum-framed systems indicated.
a. Color: Black
2. Weatherseal Sealant: ASTM C 920 for Type S, Grade NS, Class 25, Uses NT, G, A, and O; single-component neutral-curing formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and aluminum-framed-system manufacturers for this use.
a. Color: Matching structural sealant.

2.5 Entrance Door Systems:

A. Entrance Door Hardware: As specified in Section 08710 Door Hardware.

2.6 Accessory Materials:

A. Joint Sealants: For installation at perimeter of aluminum-framed systems, as specified in section 07900 - Joint Sealers

2.7 Storefront Framing Fabrication:

A. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:
1. Profiles that are sharp, straight, and free of defects or deformations.
2. Accurately fit joints; make joints flush, hairline and weatherproof.
3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.
4. Physical and thermal isolation of glazing from framing members.
5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
6. Provisions for field replacement of glazing.
7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.

B. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.

C. Structural-Sealant-Glazed Framing Members: Include accommodations for using temporary support device to retain glazing in place while structural sealant cures.

D. Storefront Framing: Fabricate components for assembly using manufacturers standard installation instructions.

E. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

2.8 Storefront Entrance Door Fabrication:

A. Fabricate aluminum-framed glass entrance doors in sizes indicated. Include a complete system for assembling components and anchoring doors.

B. Fabricate aluminum-framed glass doors that are reglazable without dismantling perimeter framing.
1. Door corner construction shall consist of mechanical clip fastening, SIGMA deep penetration plug welds and 1-1/8" long fillet welds inside and outside of all four corners. Glazing stops shall be hook-in type with EPDM glazing gaskets reinforced with non-stretchable cord.
2. Accurately fit and secure joints and corners. Make joints hairline in appearance.
3. Prepare components with internal reinforcement for door hardware.
4. Arrange fasteners and attachments to conceal from view.

C. Weather Stripping: Provide weather stripping locked into extruded grooves in door panels or frames as indicated on manufactures drawings and details.

2.9 Aluminum Finishes:

A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

B. Factory Finishing:
1. Kawneer Permafluor (70% PVDF), AAMA 2605, Fluoropolymer Coating (Color: Charcoal or as noted on Drawings)
2. Finishing for alternate storefront specifications to be verified by Arch PM and Chipotle DM
a. YKK "Charcoal" UC99477, Superior Painted Finishes
b. All others to be verified with samples and submittals to Arch PM

2.10 Brake Metal Trim:

A. Shop Drawings: Show layout and elevations, dimensions and thickness of panels, connections, details and location of joints, sealants and gaskets, method of anchorage, number of anchors, supports, reinforcement, trim, flashings, and accessories.
1. Show actual field measurements on shop drawings.
2. Differentiate between shop and field fabrication.
3. Indicate substrates and adjacent work with which the fabrications must be coordinated.
4. Include large-scale details of anchorages and connecting elements.
5. Include large-scale or schematic exploded or isometric diagrams to fully explain flashing at a scale of not less than 1-1/2 inches per 12 inches (1:10)

2.11 Formed Metal Fabrications - General:

A. Shop assembly: Preassemble items to greatest extent possible. Minimize field splices and field assembly. Disassemble only as necessary for transportation and handling. Mark items clearly for assembly and installation.

B. Coordinaton: Match dimensions and attachement of formed metal items to adjacent construction. Produce integrated assembles. Closely fit joints; align edges and flat surfaces unless indicated otherwise.

C. Forming: Profiles indicated. Maximize lenghts. Fold exposed edges to form hem indicated or ease edges to radius indicated with cocealed stiffener. Provide flat, flush surfaces without cracking or grain seperation at bends.

D. Reinforcement: Increase metal thickness; use concealed stiffeners, backing materials or both. Provide stretcher leveled standard of flatness and stiffness required to maintain flatness and hold adjacent items in flush alignment.

E. Anchors: Straps, plates and anchors as required to support and anchor items to adjacent construction.

F. Supports: Miscellaneous framing, mounting, clips, sleeves, fasteners and accessories required for installation.

G. Welding and brazing: Weld or braze joints continuously. Grind smooth, fill or dress to produce smooth, flush, exposed surfaces. Do not discolor metal. Grind Smooth, polish, and restore damaged finishes to required condition.
1. Ease exposed edges to small uniform radius.
2. Welded joints.
a. Carbon Steel: Perform welding in accordance with AWS D1.1/D1.1M.
b. Stainless Steel: Perform welding in accordance with AWS D1.6/D1.6M
3. Brass/Bronze Brazed Joints:
a. Perform torch brazing in accordance with AWS C3.4M/C3.4
b. Perform induction brazing in accordance with AWS C3.5M/C3.5
c. Perform resistance brazing in accordance with AWS C3.9M/C3.9

H. Performance requirements;
1. Thermal Movements:
a. Allow for thermal movements in exterior metal fabrications due to temperature changes. Prevent buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
b. Temperature Change Range: 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), on material surfaces.
2. Corrosion: Prevent galvanic action and other forms of corrosion by isolating metals and other materials from direct contact with incompatible materials.

2.12 Formed Metal Fabrications - Sheet Metal

A. Closures, Trim, and Fill Panels:
1. Form Closures from type and thickness of metal indicated.
2. Conceal fasteners when possible.
3. Drill and tap holes for securing to other surfaces.
4. Provide gaskets where indicated or needed for continuous seal at adjacent surfaces.
5. Miter or cope at corners and reinforce with bent metal plate. Form tigh joints.

2.13 Materials

A. Genaral: Provide sheet metal without pitting, seam marks, roller marks, stains, discolorations, or other imperfections exposed to view on finished units.
B. Galvanized Steel Sheet: ASTM A653/A653M, G90 (Z275) coating. 14 gauge min. thick base material.
C. Anchors, Clips, and Accessories: Use one of the following:
1. Stainless steel complying with ASTM A276/A276M, ASTM A480/A480M, or ASTM A666.
2. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A153/A153M.
3. Steel complying with ASTM A36/A36M and hot-dipped galvenized to ASTM A123/A123M Coating Grade 35
4. Interior locations: Carbon steel; zinc coated in accordance with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5.
5. Exterior Locations or in contact with Stainless Steel:
a. Bolts: Stainless steel; ASTM F593, Group 1 (A1)
b. Nuts: Stainless steel; ASTM F594.
6. Structural Anchors: Provide anchors where work is indicated to comply with design loads.
a. Type: Provide chemical or torque controled expansion anchors.
b. Capacity: When tested according to ASTM E488/E488M; four times the load imposed when installed in concrete.
7. Nonstructural Anchors: Provide powder-actuated fasteners where work is not indicated to comply wit design loads. Provide size and number required for load, installation, and as recommended by manufacturer, unless indicated otherwise.
D. Fasteners, General: Same basic metal and alloy as formed metal sheet unless indicated otherwise. Do not use metals incompatible with the materials joined.
E. Gaskets: As required to seal joints in decorative formed metal and remain airtight; as recommended in writing by decorative formed metal manufacturer.

2.14 Finishes

A. Finishes, General: Comply with NAAMM AMP 500-06
1. Complete mechanical finishes befor fabrication. After fabrication, finish joints, bends, abrasions and surface blemishes to match sheet.
2. Protect mechanical finishes on exposed surfaces from damage.
3. Apply organic and anodic finishes to formed metal after fabrication unless indicated otherwise.
4. Appearance: Limit variations in appearance of adjacent to one-half the range represented in approved samples. noticeable variations in the same piece are not acceptable. Install components in the range of approved samples to minimize contrast.
B. Galvanized Steel Finishes:
1. Repair Galvanized Surfaces: Clean welds and abraded areas and repair galvanizing to comply with ASTM A780/A780M
2. Color: As shown on the drawings.
3. Factory Prime: Apply shop primer to pepared surfaces of items where field painting after installation indicated, unless indicated otherwise. Comply with requirements in SSPC-PA1
4. High Performance Organic Coatings: AAMA 2604; multiple coats, thermally cured fluoropolymer system.

3.1 Examination:

A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weather tight framed aluminum storefront system installation.
1. Masonry Surfaces: Visibly dry and free of excessive moisture, sand, and other construction debris.
2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches of opening.
3. Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints.
4. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 Installation:

A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum framed storefront system, aluminum swing storefront entrance doors, accessories, and other components.

B. Install aluminum framed storefront system and storefront doors level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.

C. Set sill members and door threshold in bed of sealant or with gaskets, as indicated, for weather tight construction.

D. Install aluminum framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within sliding door to the exterior. Refer to section 07900 - Joint Sealers.

E. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

F. Install aluminum storefront framing system glass and glazing, in accordance with section 08800 and the manufacturer's requirements.

3.3 Adjusting, Cleaning, and Protection:

A. Clean aluminum surfaces immediately after installing aluminum framed storefronts. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.

B. Clean glass immediately after installation. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.

C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

SECTION 085619 - PASS-THRU WINDOW

1.1 General: Provide door hardware as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ASTM A240 - Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels.
2. ASTM A653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
3. ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate.
4. ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
5. ASTM B580 - Standard Specification for Anodic Oxide Coatings on Aluminum.
6. ASTM B680 - Standard Test Method for Seal Quality of Anodic Coatings on Aluminum by Acid Dissolution.
7. ASTM C1048 - Heat-Treated Flat Glass--Kind HS, Kind FT Coated and Uncoated Glass.
8. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass.
9. ASTM E774 - Standard Specification for Sealed Insulating Glass Units.
10. Aluminum Association AA DAF-45 - Designation System for Aluminum Finishes.

B. Quality Assurance:
1. Manufacturer Qualifications: Minimum of 25 years successful experience continuously manufacturing pass-thru windows.
2. Installer Qualifications: Installer shall have five years experience manufacturing and fabricating windows of similar type and scope as those specified in this section.

2.1 Materials:

A. Acceptable Manufacturers. Arch PM to verify required manufacturer per Tenant's assignment.
1. Quikserv; Toll Free: 1.800.388.8307; Email: sales@quikserv.com; Web: https://www.quikserv.com/
2. ReadyAccess; Toll Free: 1.800.621.5045; Email: ready@ready-access.com; Web: https://www.ready-access.com

B. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.

ARCHITECT OF RECORD

ROGLIE ARCHITECTS

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FORT WORTH, TEXAS 76102
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SEAL

REGISTERED ARCHITECT
TAYLOR R. GRANDORF
30533
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REVISION 1 - 7/1/24

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Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

Contents:
ARCHITECTURAL SPECIFICATIONS

G014

2.2 In-Line Side Sliding Automatic Window and Air Curtain

A. Standard Custom Side Sliding Windows – Arch PM to verify manufacturer with Tenant.
   a. GC to use specification called out on storefront details sheet and/or as directed by Tenant Arch PM.

   • Quikserv Custom Automatic Side Sliding Window (Model: SST-4035E-CHIPOTLE): 45 -1/2"W x 41-3/4"H window with 17-3/4" tall transom and (2) sidelights at 29 1/4"W x 41-3/4"H; Complete Unit Size 104"W x 59-1/2"H

   1. Service Opening: 19"W x 29-3/4"H
   2. Finish: Dark Bronze Anodized
   3. Glass: 1" Clear Tempered unit + Low E (Solarban 60e) for fixed and moving panel, sidelights and transom
   4. 'CHIPOTLE' package includes pre-wired air curtain with relay to sync operation with window.
      a. Arch PM to verify if heated or ambient air curtain is required per Tenant assignment. Air Curtain mounts to transom.
         i. Heated Air Curtain: Model: QSV1025EJ-040-BK
         ii. Ambient Air Curtain: Model: QSK1025AA-BK
   5. Refer to interior elevations (A700s) for direction of opening for ordering.

   • ReadyAccess Automatic Side Sliding Window: 47 -1/2"W x 43-1/2"H window with 16" tall transom and (2) sidelights at 28 1/4"W x 59-1/2"H; Complete Unit Size 104"W x 59-1/2"H

   1. Service Opening: 19"W x 35"H
   2. Finish: Dark Bronze Anodized
   3. Glass: 3/4" Clear Tempered unit + Low E (Solarban 70XL) for fixed & moving panel, sidelights and transom
   4. Arch PM to verify if heated or ambient air curtain is required per Tenant assignment.
      a. Heated Air Curtain: Model: AA300 (replaces transom)
      b. Ambient Air Curtain: Model: AA100 (split transom)
   5. Refer to exterior elevations (A300s) for direction of opening for ordering.

B. Alternate California Code Option

   1. ReadyAccess: Window 47-1/2" W x 35-3/4"H with double-split transom for air curtain and 10" and (2) sidelights at 28-1/4"W x 59-1/2"H; Complete Unit Size 104"W x 59-1/2"H
      a. Service Opening:15-1/4"W x 28"H, limited to meet CA code.
      b. Ambient Air Curtain, AA100, and relay switch kit included with the West Coast Window package.

   2. Quikserv Model: SS-4035-E-CHIPOTLE-CALI, same as above except as noted.
      a. Service Opening: 28"W x 15-3/8"H, limited to meet CA code.
      b. 'CHIPOTLE' package includes pre-wired ambient air curtain with relay to sync operation with window Model: QSK1025AA-BK. Air curtain mounts to transom.

C. Alternate Impact-Resistant and Florida Product Approved Option, Miami Dade Horizontal Bi-Parting Impact Slider

   1. Quikserv Model: BP-7241E-IP-CHIPOTLE, Complete Unit Size: 72"W x 41"H.
      a. Service Opening: 29-1/2"W x 27"H
      b. Rough Opening: 72-1/2"W x 41-1/2"H
      c. Glass: Impact Resistant Glass
      d. 'CHIPOTLE' package includes ambient air curtain
         i. Ambient Air Curtain: Model: QSK1025AA-BK, Part Number: 9345.
         ii. Do not mount directly to window, mount on wall above.
      e. Miami-Dade NOA #18-0814.02

2.3 Electrical Requirements

A. Quikserv Electrical Windows: 120V / 60 Hz, 20-amp branch circuit, single phase. Power supplied through base of window. Conforms to UL Standard 325 – Certified to CAN/CSA C22.2 NO. 247. Confirm with Electrical Drawings.

   1. Heated Air Curtain for Custom Side Sliding Window (Model: SS-4035-E-CHIPOTLE)
      a. Separate 208V circuit and Power Supply required for heated air curtain. Air curtain pre-wired through window frame with power supply routed to base of window. Confirm with Electrical Drawings.
   2. Ambient Air Curtain for Custom Side Sliding Window (Model: SS-4035-E-CHIPOTLE) and Alternate California Code Option: Model: SS-4035-E-CHIPOTLE-CALI
      a. Separate circuit not required. Window pre-wired to power and sync operation with air curtain.
   3. Ambient Air Curtain for Alternate Impact-Resistant and Florida Product Approved Option (Model: BP-7241E-IP-CHIPOTLE):
      a. Connect to main control board on window to power and synchronize operation with opening and closing of window.

B. ReadyAccess Electrical Windows: 115V / 60 Hz, 15-amp dedicated circuit required. Run power to header on fixed panel side.

   1. AA300 Heated Air Curtain
      a. Separate 208V /60 hz /40-amp single phase circuit required.
   2. AA100 Ambient Air Curtain (Standard and CA window)
      a. Separate 120V / 60hz / 15-amp single phase circuit required. Run power to center of window above header.

3.1 Installation

A. Install in accordance with manufacturer's instructions.
B. Install pass-thru windows plumb, level, square, true to line, and without warp or rack. Maintain dimensional tolerances and alignment with adjacent Work.
C. Install thermal isolation where components penetrate or disrupt building insulation. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
D. Install pass-thru window components weathertight.
E. Anchor pass-thru windows securely in place to supports. Use attachment methods permitting adjustment for construction tolerances, irregularities, alignment, and expansion and contraction.
F. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by Architect.
G. Coordinate installation of related sheet metal flashing as specified in Section 07 62 00 - Sheet Metal Flashing and Trim.
H. Install perimeter joint sealants as specified in Section 07 91 23 - Backer Rods.

SECTION 08710 - DOOR HARDWARE

1.1 General: Provide door hardware as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ANSI A117.1-2009 Accessible and Usable Buildings and Facilities.
   2. ANSI/BHMA A156 Series Builders Hardware

B. Quality Assurance:
   1. Codes and standards: Provide hardware complying with local Building Code requirements and the Tenant's standards for keying and security systems.
   2. Project scheduling: Performed by an Architectural Hardware Consultant (AHC).
   3. Package each item of hardware and each lockset, complete with all screws, anchors, installation instructions and templates. Identify package indexing with corresponding item number of the hardware schedule.
   4. After hardware schedule acceptance, provide necessary templates or physical hardware to required trades for cutting, reinforcing, or preparing their products to receive hardware. Furnish templates to metal door manufacturer's.

2.1 Materials:

A. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.

B. Review the keying system with the Tenant and provide the type required.

3.1 Installation

A. Install each hardware item in strict accordance with manufacturer's installation instructions and recommendations. Securely fasten all attached parts. Fit faces of mortised parts snug and flush. Verify operating parts move freely and smoothly without binding or sticking, without excessive clearance.

B. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as required for proper installation and operation. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

C. Mount hardware units at heights indicated in DHI "Recommended Locations for Builders Hardware", unless otherwise required to comply with requirements of governing codes and regulations. Conform to ANSI A117.1 and ADAGG guidelines for accessibility.
   1. Top Butts: 5 inches; top of butt from head of frame.
   2. Middle Butts: 3'-2", centerline from finish floor.
   3. Bottom Butts: 5 inches; finish floor to bottom of butt.
   4. Locks: centerline from finish floor per hardware schedule.
   5. Knobs: 3'-2", centerline from finish floor.
   6. Pulls: centerline from finish floor per hardware schedule.
   7. Pushes: centerline from finish floor per hardware schedule.

SECTION 08800 - GLAZING

1.1 General: Provide glass and glazing as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. CPSC 16 CFR Part 1201 (1-91)"Safety Standard for Architectural Glazing Materials."
   2. GANA "Glazing Manual - 1990."

B. Quality Assurance:
   1. Codes and standards: Provide type of glass and glazing products that comply with ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for category II materials. Comply with all applicable codes, standards and regulations that control safety glazing materials and installation.
   2. System Performance: Provide glass and glazing that has been produced, fabricated and installed to withstand normal thermal movement, wind loading and, where applicable, impact loading, without failure including loss or breakage of glass, failure of glazing sealants or gaskets to remain watertight and airtight, deterioration of glass and glazing materials and other defects in the work.
   3. Installation: Performed only by experienced glaziers.

C. Warranty:
   1. Insulating glass: Five years from date of installation against defects that materially obstruct vision through the glass or affect thermal and physical integrity.

2.1 Materials:

A. Glass:
   1. Float Glass (FG): 1/4" thick clear float glass.
   2. Tempered Glass (TG): 1/4" and 1/2" thick clear, tempered safety glass, free-of-tong marks.
   3. Insulating Glass (IGL): 1" thick clear, low-e tempered sealed glass; 1/4" thick interior and exterior glass lites with 1/2" aluminum desiccated dual sealed air space; with the following characteristics:
      a. Low-emissivity coating on #2 surface.
      b. Visible Light Transmittance: 64% - 70%
      c. Visible Light Reflectance - Outdoors: 9%-11%
      d. Solar Energy Transmittance: 32%-34%
      e. Solar Energy Reflectance-Outdoors: 30%-34%
      f. U-Value - Winter Night: 0.29
      g. U-value - Summer days: 0.28
      h. Solar Heat gain Coefficient: 0.25-0.39
      i. Shading Coefficient: 0.43-0.45
      j. Manufacturers/Products:
         i. AGC/Comfort Ti-AC40, or similar to meet code
         ii. Sun Guard/SN-68, or similar to meet code
         iii. PPG/Solarban 60, or similar to meet code
         iv. Viracon/VE1-2M, or similar to meet code
   4. Spandrel Glass (SG) 1/4" thick, Spandrel Ceramic Glass, (Color: GrayBlack or as noted on drawings) by Old Castle Building Envelope (419) 666-2000, Contact: Doug Dewar
   5. Frosted Window Film, 3M Dusted Crystal Translucent Window Film. Apply on the interior side of glazing.

B. Glazing Materials:
   1. Glazing Sealants: Provide elastomeric glazing sealants suitable for applications indicated; compatible with one another and with other materials they will contact, complying with ASTM C920.
   2. Glazing Tape: Provide preformed, non-staining and non-migrating elastomeric tape, as recommended by tape and glass manufacturers for application indicated, complying with ASTM C 1281.
   3. Glazing gaskets: Provide manufacturer's standard snap-on aluminum stops and neoprene, vinyl or EPDM glazing gaskets.
   4. Provide setting blocks, spacers and edge blocks of material, size, and shape complying with referenced glazing standard, and compatible with surfaces contacted in installation.

C. Fabrication: Factory fabricate and size all glass.

3.1 Installation

A. Preparation:
   1. Field verify measurements and conditions of installation.
   2. Examine all details. Provide proper fitting to details indicated.
   3. Glazing channel dimensions shown are intended to provide for necessary bite on glass, minimum edge clearance and adequate glazing materials thickness, with reasonable tolerances. Adjust as required by job conditions at time of installation.

B. Install glass and glazing in accordance with the GANA "Glazing Manual" and glass manufacturer's recommendations.
   1. Install insulating glass units to comply with recommendations by Sealed Insulating Glass Manufacturers Association (SIGMA).

C. Install setting blocks of proper size at quarter points of sill rabbet. Provide spacers as required.

D. Install glazing sealants, tapes and gaskets in accordance with manufacturer's recommendations. Set glass without springing and install securely to prevent rattling or breakage.

E. Protect glass from breakage during remaining construction. Do not remove non-permanent labels until final acceptance.

DIVISION 9 -- FINISHES

SECTION 09260 - GYPSUM BOARD SYSTEMS

1.1 General: Provide gypsum board systems as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. GA 214-90 "Levels of Gypsum Board Finish."
   2. GA-216 "Specifications for Application and Finishing of Gypsum Board."
   3. USG "SA923 Drywall/Steel Framed Systems."

2.1 Materials:

A. Manufacturer: United States Gypsum Co. (USG), (800) 874-4968, internet www.usg.com.

B. Metal framing: Comply with ASTM C 754 and ASTM C 645 for materials and sizes.
   1. Partition metal framing:
      a. Studs: Galvanized steel, C-shaped, sizes indicated, 20 gage "ST20"
      b. Runners: Match studs, type recommended by stud manufacturer for floor and ceiling support of studs. Provide flexible ceiling runners for full height metal stud framed partitions continuous from floor to underside of structural members or deck above.

C. Ceiling and Soffit metal framing/suspension systems:
   1. Small areas: Metal stud framing of appropriate size and gage for spans indicated.
   2. Large areas: Furring channel "Grillage" or "Direct Suspension System" designed for concealed support of gypsum board ceilings, of proper type for use indicated.
   3. Furring members: 20 gage, galvanized steel screw type, hat-shaped furring.

D. Gypsum board panels: USG "Sheetrock" complying with ASTM C1396, tapered edge face panels, 48" wide, in maximum lengths available to minimize end joint conditions, 5/8" thick.
   1. General use panels: Sheetrock Regular panels.
   2. Fire rated panels: Sheetrock Firecode Core panels.
   3. Water-resistant: panels: Sheetrock HUMITEX panels.

E. Cement board: USG DUROCK Cement Board, 5/8" thick x manufacturer's standard width, complying with ANSI A118.9, and in maximum lengths available to minimize end-to-end butt joints.

F. Fasteners: USG Type "S" bugle head screws for metal framing, USG Type "W" bugle head screws for wood framing, manufacturer's recommended length for panel thickness indicated.

G. Trim: Galvanized steel with knurled and perforated flanges. USG Dur-A-Bead corner bead, No. 200B casing bead metal trim, No. 093 Control Joint.

H. Joint treatment: USG Joint Treatment System, utilizing "Sheetrock Brand Joint Tape", and "Sheetrock Brand Setting-Type (DURABOND)" compound for tape bedding and topping.

I. Adhesives: USG "Sheetrock Brand Setting-Type (DURABOND) 210 or 90" compound for tape bedding and topping.

J. Acoustical sealant: USG Sheetrock Acoustical Sealant, water-base type, gunnable sealant for sealing sound-rated gypsum board systems.

K. Sound attenuation insulation: USG Thermafiber unfaced 3-1/2" thick, mineral fiber insulating batts/blankets; standard lengths and widths required to coordinate with spaces insulated.

3.1 Installation

A. Install metal wall and partition framing and ceiling suspension/ support systems in accordance with USG Bulletin SA 923 and complying with ASTM C754.
   1. Ceiling suspension/ support systems: Metal furring system/direct suspension or steel stud framing system.
   2. Wall and partition framing:
      a. Install steel studs per schedule or at spacing indicated with bottom and top runner tracks anchored to substrates. Provide flexible ceiling runner tracks at full height partitions.
      b. Terminate partition stud system 4" above ceilings, except where indicated to be extended to structural support or roof deck above. Brace tops of partition framing to structure or roof deck at maximum 4'-0" on center spacing.
      c. Frame openings more than 2'-0" wide with two 20 gage studs at each jamb.
      d. Coordinate the installation of supplementary blocking and nailers, provided under Section 06100 work, to support shelving, millwork, toilet accessories, and similar work that cannot be adequately supported by gypsum board alone.

B. Application and Finishing: Install and finish gypsum board to comply with ASTM C 840 and Gypsum Association GA 216 "Recommended Specifications for the Application and Finishing of Gypsum Board."
   1. Screw fasten all gypsum board panels.
   2. Metal Trim: Install metal corner beads at external corners of gypsum board work and metal trim wherever edge of gypsum board would be exposed. Use longest practical lengths.
   3. Control Joints: Locate and install control joints in accordance with USG Bulletin SA923 "Good Design Practice" recommendations.

C. Acoustical Treatment:
   1. Where sound-attenuation insulation is indicated, seal gypsum board construction at perimeters, control joints, junction boxes, openings and penetrations with a continuous bead of acoustical sealant including a bead at both faces of partitions.
   2. Install sound attenuation insulation at scheduled partitions and ceilings. Install insulation in single layer of required thickness. Extend full thickness over entire area to be insulated. Cut and fit tight around obstructions. Fill all voids.
   3. At openings and cutouts, fill open spaces between edges of gypsum board and fixtures, cabinets, ducts, and other flush or penetrating items, with continuous bead of acoustical sealant.
   4. Seal sides and backs of electrical boxes to completely close up openings and joints with a bead of acoustical treatment.

D. Finishing:
   1. Comply with manufacturer's instructions for mixing, handling, and application of materials. Apply treatment at joints both directions, at flanges of trim accessories, penetrations of gypsum board (electrical boxes, piping, and similar work), fastener heads, surface defects, and elsewhere as indicated. Apply in manner that will result in each of these items being concealed when applied decoration has been completed.
   2. Apply joint tape at joints between gypsum boards, except where trim accessories are indicated.
   3. Interior Exposed Gypsum Board Finish: Level 5 Finish.
      a. Locations: Typical for all walls and ceilings, unless otherwise indicated
      b. Finish interior gypsum board by applying the following joint compounds in four coats (not including prefill of openings in base), and sand between coats and after last coat:
      c. Embedding and First Coat: Setting-type joint or taping compound.
      d. Fill (Second) Coat: Setting-type topping compound.
      e. Fill (Third) Coat: Setting-type topping compound.
      f. Finish (Fourth) Coat: Skim coat entire surface.

   4. Interior Concealed Gypsum Board: Level 3 Partial Finishing.
      a. Finish concealed gypsum board construction that requires finishing same as exposed gypsum board construction, except the third coat and sanding can be omitted.

E. Cement Board: Install cement board as a 16" high base at all kitchen and kitchen cook line wall types as indicated on drawings.

SECTION 092816 - GLASS-MAT FACED GYPSUM BACKING BOARDS

1.1 General: Provide Fiberglass-mat faced, moisture resistant gypsum backer board as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ASTM C840 Standard Specification for Application and Finishing of Gypsum Board.
   2. ASTM C1002 Standard Specifiation for Steel Self Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs
   3. ASTM C1178 Standard Specification for Glass Mat Water-Resistant Gypsum Backing Panel
   4. ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
   5. ASTM D6329 Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers.
   6. ASTM E96 Standard Test Methods for Water Vapor Transmision of Materials
   7. Tile Council of North America, Inc. (TCNA): TCA Handbook for Ceramic Tile Installation, Current Edition.

2.1 Materials:

A. Manufacturer: Georgia-Pacific Gypsum LLC, (800) 225-6119, internet: www.buildgp.com

B. Fiberglass-Mat Faced Gypsum Backing Board: DensShield Fireguard Tile Backing Board complying with ASTM C1178, Type X, Square edges, 4' wide in maximum lengths available to minimize end joint conditions, 5/8" thick. Surfacing: Coated fiberglass mat on face, back and long edges.
   1. General use panels: 5/8" DensShield Fireguard Tile Backer, Georgia-Pacific Gypsum.

C. Fasteners: Screws meeting ASTM C1002, with corrosion resistant treatment. Size and type per manufactuer's recommendations:
   1. Walls (Steel Frame): Bungle head, fine thread, sharp point rust resistant drywall screw
   2. Walls (Walls Frame): Bungle head, coarse thread, sharp point rust resistant screw

D. Metal Framing, Trim, joint treatment, adhesives, acoustical sealant, and sound attenuation insulation: Refer to Section 09260 Gypsum Board Systems

3.1 Installation

A. Install DenShield at all tile walls excluding hood area as indicated on drawings.

B. General: Install in accordance with ASTM C840, manufacturer's recommendations and TCA Handbook for Ceramic Tile Installation.
   1. Manufacturers Recommendations: refer to Current "Product Catalog", Georgia Pacific Gypsum.
      a. Attach DensShield Tile Backer with grey side facing the interior. Tile should be applied on the grey coated side of DensShield Tile Backer. Cut panel to required size and make cutouts. Fit ends and dges closely. Do not leave gaps between panels.
      b. DensShield Tile Backer may be cut by using a utility knife to score, then snap, working from the grey face side.
      c. For walls, when used as a tile substrate a minimum 20-gauge steel or wood framing should be spaced no greater than 24" o.c. for 5/8" DensShield Tile Backer. Board can be applied horizontally or vertically.
      d. Fasteners shall be spaced 6" o.c. for walls for wood and steel framing. Do not countersink. Drive fasteners flush with grey coated surface. See manufacturer installation Fastener Guide for proper selection.
      e. In all corners, imbed with a bead of flexible sealant when installing panels into corner. Apply self-adhesive 2" wide fiberglass mesh tape and bed tape on all joints and corners with material used to set tiles.
      f. Caulk or seal fixture/plumbing penetrations and abutments to dissimilar materials.
      g. Do not use all purpose joint compound or tape in wet areas.
      h. Do not apply DensShield Tile Backer directly to concrete or masonry block. Framing or furring of the walls is necessary.
      i. DensShield Tile Backer should not be used for exterior installations.
      j. DensShield Tile Backer panels should not be used as a base for nailing and mechanical fastening.
      k. DensShield Tile Backer has a built in moisture barrier. Never install vapor retarders directly behind DensShield Tile Backer panels. In retrofit applications, some paints or other wall coverings may constitute a vapor barrier; remove or effectively penetrate these coverings prior to installing DensShield Tile Backer panels.

C. Refer to Section 09260 Gypsum Board Systems for additional installation and sound treatment instructions

SECTION 09330 - QUARRY TILE

1.1 General: Provide quarry tile flooring and base as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ANSI A137.1 "Ceramic Tile."
   2. TCA "Handbook for Ceramic Tile Installation."

2.1 Materials:

A. Manufacturers:
   1. Quarry Tile: Daltile, (877) 556-5728, internet: http://daltile.com
      a. For ordering purposes, email all orders to chipotle@daltile.com
   2. Waterproofing, Setting and Grouting Materials:
      a. Setting and Grouting Materials and Tile Base Membrane: Mapei
         i. For ordering purposes, email all orders to chipotle@daltile.com
         ii. For technical questions, contact Mapei, (800) 992-6273, internet: www.mapei.com

B. Quarry Tile: Daltile 6" x 6" x 1/2" Quarry Textures with 5" base as scheduled on finish plan and appropriate trim; Color: "Ashen Gray" 0T03
   1. Entire Kitchen Area: Provide non-abrasive finish quarry tile.
   2. Rest Rooms: Provide non-abrasive finish quarry tile.
   3. Outside Corner Cove Base (Kitchen): #QC-(L or R)-3565 5" x 6"
   4. Inside Corner Cove Base: #QB-3565 1" x 5"
   5. Bullnose Coveless Base: #Q-1665, 6" x 6"
   6. Bullnose Corner Coveless Base: #QCRL-1665, 6" x 6"

C. Waterproofing for elevated floor slabs: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane
D. Setting Adhesive: Mapei, Ultraflex 3, Color: Gray
E. Grout: Mapei, Kerapoxy IEG CQ, Color: #9, "Gray", 1/4" grout joints.
F. Quarry Tile Base Membrane: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane

3.1 Installation

A. Preparation: Clean substrate surfaces, scheduled to receive quarry tile, thoroughly and remove all coatings that may impair bond.
   1. Center tile fields both directions in each floor area. Adjust layout to minimize tile cutting. Avoid tile less than one-half size. Locate cuts to be least conspicuous.
   2. Maintain units uniformly "in plane." Provide straight, uniform joint widths and grout lines.

B. Elevated Floor Slabs: Install waterproofing membrane at elevated floor slab surfaces scheduled to receive quarry tile floor finish. Install membrane materials in accordance with manufacturer's installation instructions to produce a waterproof membrane of uniform minimum 30 mil thickness bonded securely to substrate.
   1. Extend waterproofing up vertical wall surfaces minimum 10" high.
   2. Extend membrane down into floor drain flanges to assure continuous waterproofing at drainage points.

C. Wet Areas: Install waterproofing membrane at all quarry tile wall base. Install membrane materials in accordance with manufacturer's installation instructions to produce a waterproof membrane of uniform minimum 30 mil thickness bonded securely to substrate.
   1. Extend waterproofing up all vertical wall surfaces receiving quarry tile base minimum 10" high. Extend waterproofing membrane 10" minimum horizontally from all vertical wall surfaces receiving quarry tile base.

D. Installation: Install, grout and clean ceramic tile in accordance with referenced TCA installation details and ANSI standard specifications for setting methods scheduled.
   1. Floors: Latex-portland cement mortar on concrete; TCA detail F113 and ANSI A108.5, grout ANSI A108.10.
   2. Base: Latex-portland cement mortar on cement board.

SECTION 09340 - CERAMIC TILE

1.1 General: Provide ceramic wall tile as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ANSI A137.1 "Ceramic Tile."
   2. TCA "Handbook for Ceramic Tile Installation."

2.1 Materials:

A. Manufacturers:
   1. Ceramic Tile and Accent Tile: Daltile, P: (877) 556-5728, internet: http://daltile.com
      a. For ordering purposes, email all orders to chipotle@daltile.com

B. Ceramic Tile:
   1. Kitchen Tile, or as noted in plans, Series - Finish Line Glazed Ceramic Tile:
      a. Color - White FL90, Semi-Gloss, Size - 4 x 16, Pattern - Stacked Bond
   2. Accent Tile, Series - Color Wheel Glazed Ceramic
      a. Color - Chipotle Brick Metallic 1.0 #9999710686, Size - 3 x 12, Pattern - Stacked Bond
      b. Alternate Accent Tile only when approved by Arch PM and Chipotle DM
         i. Series - Remedy, Color - Alchemy RD25, Size - 2 x 9, Pattern - Stacked Bond
         ii. Series - Marrazzi, Color - Artesen AT25, Size - 2 x 4, Pattern - Brickjoint Mosaic

C. Setting Adhesive: Thinset Mortar, Mapei, Ultraflex LFT - Gray

D. Grout:
   1. Kitchen Tile or as noted in plans
      a. Mapei, Series - Flexcolor CQ - Gray #09, 1/8" grout joints.
   2. Accent Tile
      a. Mapei, Series - Flexcolor CQ - Chocolate #07, 1/8" grout joints.

3.1 Installation

A. Preparation: Clean substrate surfaces scheduled to receive ceramic tile thoroughly and remove all coatings that may impair bond.
   1. Protect surrounding work from damage.
   2. Remove any curing compounds or other contaminates.
   3. Vacuum clean surfaces and damp clean.
   4. Install cementitious backer board or glass-mat faced gypsum backing board as indicated in drawings in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of dry-set mortar to a feather edge.
   5. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.

B. Kitchen:
   1. Install, grout and clean ceramic tile in accordance with referenced TCA installation details and ANSI standard specifications for setting methods scheduled.
   2. Lay tile in horizontal stack bond, following detail drawings for layout considerations. Horizontal rows of tile shall be full-height courses, unless noted otherwise.
   3. Arrange pattern so that a full tile or joint is centered on each wall horizontally and that no tile less than 1/2 width is used at the ends of the wall. Exception: when one end of the wall is a tile-to-gypsum board transition. Do not interrupt tile pattern through openings.
   4. Use specified stainless steel corner guards at tile-to-tile and tile-to-FRP outside corners.
   5. Use corner bead of 100% silicone sealant, color to match grout, at inside corners where tile meets tile.
   6. Use corner bead of 100% silicone sealant, white, at inside corners where tile meets paint gyp. board, tile meets FRP or tile meets aluminum.
   7. Cut and fit tile to penetrations through tile, leaving sealant joint space. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, escess mortar, or excess grout.
   8. Sound tile after setting. Replace hollow sounding units.
   9. Keep expansion joints free of adhesive or grout. Allow tile to set for a minimum of 48 hours prior to grouting. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes. Refer to section 07900 Joint Sealers.
   10. Clean tile and grout surfaces.

ARCHITECT OF RECORD

ROGUE ARCHITECTS

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SEAL

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REVISION 1 - 7/1/24

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Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.: CMG5134

Contents: ARCHITECTURAL SPECIFICATIONS

G015

SECTION 09510 - SUSPENDED CEILING SYSTEMS

1.1 General: Provide acoustical ceiling systems as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. CISCA "Acoustical Ceilings - Use and Practice."
2. ASTM C635.
3. ASTM C636.

B. Related Sections:
1. 09515 Cementitious Wood Fiber Acoustical Panels: Suspension system.

2.1 Materials:

A. Manufacturer:
1. USG Interiors, Inc., (800) 950-3839, www.usg.com
2. Pittcon Industries, (800) 637-7638, www.pittconindustries.com

B. Ceiling Panels: USG "Sheetrock Lay-In ClimaPlus No. 3270" ceiling panels with white, stipple texture, vinyl facing, 24" x 48" x 1/2".

C. Light Pocket: Pittcon "LP-700-800", White, Height of cove should be field verified by GC to end on a full tile height.
1. Light pocket can have up to 6 week lead time and should be ordered as soon as possible.
2. Light pocket endcap should only be installed when the end of the cove is not against a wall.

D. Suspension System: Provide intermediate duty, structural class, direct hung systems adequate to support light fixtures, ceiling diffusers and other normal accessories.
1. Exposed "Tee" Grid System for use with Lay-In Ceiling panels: USG "Donn DX System" non-fire rated with 15/16" exposed face, cold-rolled galvanized steel with aluminum face cap, white paint finish on exposed surfaces. Provide hemmed edge aluminum wall angles, 15/16" exposed leg, white paint finish matching exposed grid.
2. Concealed "Tee" Grid System for use with Painted Gypsum Board Ceilings & Soffits or with Cementitious Wood Fiber Acoustical Panels (Tectum): USG "DGLW" Heavy Duty Drywall Suspension System with 1 5/8" deep by 1 1/2" wide main tees and 1 1/2" deep by 1 1/2" wide cross tees.
3. Hanger Wire: No. 12 SWG galvanized steel wire.
4. Heavy Duty "Tee" Grid System for use with Felt Baffle Ceiling System: USG Donn Brand DX/DXL with 15/16" wide face tees, color: black

3.1 Installation

A. Install acoustical ceiling materials and suspension systems in strict accordance with manufacturer's recommendations, complying with governing regulations and industry standards applicable to the work.

B. Suspension system installation shall be laser leveled with a maximum surface leveling tolerance of 1/8" in 12'-0".

C. Install exposed Tee suspension systems with main tees nominally 12 ft long spaced 48 in O.C. and cross tees nominally 4 feet long spaced 24 in O.C.

D. Install concealed Tee suspension systems with main tees nominally 12 ft long spaced 24 inches O.C. and cross tees nominally 2 ft long spaced 48 in O.C.

E. Hanger wire shall be spaced 48" O.C. along main tees, at all four corners of light fixtures (where applicable), at midpoint of cross tees adjacent to light fixtures and duct outlets, and adjacent to main tee splices.

F. Secure wire hangers by looping and wire-tying either directly to building structure or to hangers that are secure and appropriate for substrate.

G. Provide edge trim molding at perimeter of acoustical ceiling installation and intermediate vertical surfaces. Use maximum lengths. Miter trim corners to Provide tight, accurate joints. Connect moldings securely to substrate surfaces.

SECTION 09653 - RUBBER WALL BASE

1.1 General: Provide resilient rubber wall base as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ASTM D 2240 Rubber - 85 Shore A

2.1 Materials:

A. Manufacturer: Johnsonite, Inc., (800) 899-8916, internet: www.johnsonite.com
1. Basis-of-Design Product Rubber Wall Base:
a. Resilient Rubber:
1. .125" (3.17 mm) Thickness
2. "Black" color
3. Straight (toeless) or coved as specified on finish plan
4. Inside and outside corners with 4" returns.

B. Alternate Wall Base only when approved by Arch PM and Chipotle DM.
1. Vinyl Wall Base
a. .125" (3.17 mm) Thickness
b. "Black" color
c. Straight (toeless) or coved as specified on finish plan
d. Inside and outside corners with 4" returns.

C. Setting Adhesive
1. For porous surface applications: Johnsonite 960 Acrylic Cove Base Adhesive
2. For non-porous surface applications: Johnsonite 946 Contact Bond Adhesive or polymer based alternative

3.1 Installation:

A. Preparation: Clean substrate surfaces scheduled to receive resilient rubber and vinyl wall base thoroughly and remove all coatings that may impair bond. A uniform temperature of at least 65 degrees Fahrenheit shall be maintained for 24 hours before, during and after the installation is completed. The wall base and adhesives shall be conditioned in the same manner. Coiled wall base shall be uncoiled and lay flat for at least 24 hours at 65 degrees Fahrenheit prior to installation. Floor and walls shall be clean, dry, and free of dust, all paints, wallpaper, and all other foreign material, which may affect proper adhesive bonding. Wall base may be installed on interior plaster, gypsum wall board, concrete, masonry, mineral-reinforced cement board or similar porous surfaces. Wall base shall not be installed on surfaces that will be exposed to drastic temperature changes or moisture.

B. Application: Use a 1/8" square notch trowel to apply adhesive. Allow adhesive to set up and then apply wall base in accordance with manufacturer's instructions.

SECTION 09770 - SPECIAL WALL SURFACING - PHENOLIC INTERIOR WALL PANELS

1.1 General: Provide Stonewood solid phenolic panels and accessories for interior walls and millwork as shown and specified.

1.2 Related Sections:

A. Section 05400 - Cold Formed Metal Framing

B. Section 06210 - Finish Carpentry and Millwork

C. Section 07900 - Joint Sealers

D. Section 09260 - Gypsum Board Systems

1.3 Standards: Materials and construction shall conform to the following:

A. ASTM D638 - 10 Standard Test Method for Tensile Properties of Plastics.

B. ASTM D790 - 10 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.

C. ASTM E84 - 12 Standard Test Method for Surface Burning Characteristics of Building Materials.

D. NEMA Standards Publication LD3-2005. High pressure decorative laminates.

1.4 Design/Performance Requirements:

A. Design and size of wall panel assemblies including wall panels, mounting system to support weight of panels.

B. Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on expected movement of material as defined in fabrication guidelines.

1.5 Quality Assurance:

A. Manufacturer's Qualifications:
1. Sufficient plant facilities to provide quality and quantity of materials as required without delaying progress of work.
2. Minimum of 40 years of experience in paper saturation of phenolic resin, and producing phenolic paper laminate.

B. Fabricator:
1. Fabricated by the manufacturer, and/or;
2. Contracted by the customer, minimum 5 years' experience in fabrication work for the size and complexity of the projects.

C. Installer
1. Proven professional installer with a minimum of 5 years of documented experience.
2. Approved by the manufacturer.

1.6 Delivery, Storage and Handling:

A. Refer to Section 01400 Quality Requirements.

B. Delivery: Deliver materials in manufacturer's original unopened containers/packages, with labels clearly identifying product name, manufacturer, color/texture and weight.

C. Storage:
1. Keep panels dry and stored indoors in original packaging until installation.
2. Store Stonewood panels on a smooth, dry, flat surface, making sure there are no bends or bowing in the load.
3. Do not store directly on cold concrete floors as moisture may migrate.
4. Do not store under heating units or air conditioning units.
5. Keep load stored within outer wrap until use. Remove pallet straps once load is moved to storage area.
6. Reseal plastic wrap if partial load is used.
7. Keep foam dividers in place.

D. Handling:
1. Handle materials in accordance with manufacturer's instructions.
2. Protect materials during handling to prevent damage.
3. When moving sheets, lift evenly to avoid dragging panels across each other and scratching the surface. PLEASE TAKE CARE NOT TO SCRATCH THE SURFACE OF THE PANEL DURING HANDLING, MACHINING AND INSTALLATION.

1.7 Warranty:

A. Limited Warranty: Fibbers warrants Stonewood for a period of 10 years. Refer to www.stonewoodpanels.com for details.

1.8 Project Conditions:

A. Environmental Limitations: Buildings are to be fully enclosed prior to installation with sufficient heat (70 degrees) and ventilation consistent with good working conditions for finish work.

B. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

C. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before composite wall panel fabrication and indicate field measurements on Shop Drawings.

2.1 Manufacturer:

A. Fiberesin Industries, Inc. PO Box 808, Oconomowoc, WI 53066. Phone: (262) 567-4427, Fax: (262) 567-4814, Web Site: www.stonewoodpanels.com Email: info@fiberesin.com

B. Made in the United States from materials sourced in the USA.

2.2 Application:

A. Apply Solid Phenolic Laminate Wall Panels at walls and other surfaces as indicated on the Drawings. Phenolic Wall Panels are architectural wall panels applied over a sheathed stud wall or other solid blocking per Drawings.

2.3 Interior Stonewood:

A. Material: Solid phenolic laminate panel w/o overlay.
B. Color: Black ND
C. Finish: Matte
D. Standard Size: 48"x96", fabricator to trim height to 47"
E. Panel Thickness: 5/16", 1/2"
F. Panel Core: HR Black

2.4 Minimum Material Properties

A. NEMA Requirements:

Description	NEMA Requirements	
Dimensional Change:	3.11	
Length (Machine Direction)	0.3% Maximum	0.25%
Width (Cross Direction)	0.7% Maximum	0.50%
Density (PCF)	82	

B. Mechanical Properties:

Property	NEMA Requirements	
Flexural Strength ASTM D-790		
MD (psi)	18,000	20,000
CD (psi)	12,000	16,000
Flexural Modulus ASTM D-790		
MD (psi)	1.6x10^6	2.0 x10^6
CD (psi)	1.4x10^6	1.5x10^6
Tensile Modulus ASTM D-638		
MD (psi)	18,000	18,000
CD (psi)	12,000	13,000

C. Fire Resistance:

	Class A (0.250")	Class B (0.250")
Flame Spread Index - ASTM E-84 (BLDG):	5	30
Smoke Developed Values - ASTM E-84 (BLDG):	5	105
Fire Rating (Standard Product is Class B):	A	B

D. Manufacturing Tolerance:

Thickness (.156 to .375)	+/- .020
Thickness (above .375 to 1.000)	+/- .030
CNC Shaped Size (Length - Width)	+/- .020
Drill Diameter	+/- .003
Drill Depth	+/- .020
CNC Hole to Hole	+/- .020
CNC Hole to Edge (1 Oper)	+/- .020
CNC Hole to Edge (2 Oper)	+/- .030
Routing - (Slots Width and Length)	+/- .015
Routing - (Slots Depth)	+/- .020

2.5 Accessories (Fasteners):

A. Panel Fasteners: #10 x 1-1/4" flat phillips head black oxide wood screws to be used with wood blocking and #10 x 1-1/4" flat phillips head black oxide sheet metal screws to be used with sheet metal blocking as recommended by the manufacturer.
B. Provide exposed fasteners with heads matching color of composite wall panels by means of factory-applied coating.
C. Fasteners shall by designed to withstand effects of dead load and accommodate hydrothermal expansion/contraction of panel.
D. Wall Panel Accessories: Provide components required for a complete composite wall panel assembly including trim, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of composite wall panels unless otherwise indicated.

3.1 Manufacturer's Execution Instructions:

A. Compliance: Comply with manufacturer's/fabricator's/supplier's product data, handling and installation instruction/manual, shop drawings, shipping container/package ticket identification, etc.

3.2 Examination:

A. Verify correct panels received including dimension, tolerance, color/texture.
B. Verify correct attachment system received for the specific project/job.
C. Verify all the documents including shop drawing and installation guidelines.
D. Verify installation conditions are satisfactory to receive work of this section before the commencement
E. Verify substrate installation is complete, flat, and true to plane.
F. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.3 Preparation:

A. Field Measurements: Verify prior to fabrication and installation of the cladding panel.
B. Protect surrounding areas and surfaces to preclude damage during work of this section.
C. Lay out work before beginning installation as necessary for true, plumb and aligned panel installations.
D. Verify locations of joints and panel lengths.

3.4 Installation:

A. Conform to manufacturer's instructions and provisions of shop drawings.
B. Install to allow hydro-thermal expansion/contraction.
C. Use appropriate techniques/tools to work with the panel.
D. Do not force to fit, do not bend, stretch/compress.
E. Make cutting and fitting neat, square, and true. Where required cut, de-burr edges, and clean filings from adjacent surfaces.
F. Do not install damaged or questionable panels.
G. Install solid phenolic wall panels plumb and level and accurately spaced.
H. Anchor panels and other components of the work securely in place, with provisions for thermal and structural movement.
I. Shim or otherwise plumb substrates receiving composite wall panels.
J. Do not use construction adhesives to apply wall panels directly to substrates or wall board. Use mechanical fasteners only.

3.5 Erection Tolerances:

A. Shim and align composite wall panel units within installed tolerance of 1/4 inch in 20 feet, non-accumulative, on level, plumb, and location lines as indicated and within 1/8 inch offset of adjoining faces and of alignment of matching profiles.

3.6 Field Quality Control:

A. Manufacturer's Field Service: Provide field services to ensure product installation is in accordance with manufacturer's/fabricator's /supplier's instructions and installation manual, shop drawings etc.

3.7 Adjusting:

A. Correct identified defects and irregularities.
B. Replace damaged soiled, and discolored work.

3.8 Cleaning:

A. Leave installation clean and free from residue and debris from work of this Section.
B. Panels best cleaned with warm soapy water and rinsed with clear water; allowed to dry fully.

SECTION 09900 - PAINTS AND COATINGS

1.1 General: Provide paints and coatings as shown and specified.

A. Provide surface preparation, prime, intermediate and finish coatings for interior and exterior and existing scheduled surfaces and items.

B. Provide Tenant-selected finishes and colors for all exposed surfaces, unless otherwise indicated.

1.2 Related Documents:

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

1.3 Summary:

A. This section includes surface preparation and field painting of the following:
1. Exposed exterior items and surfaces.
2. Exposed interior items and surfaces.
3. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other Sections.

1.4 Quality Assurance:

A. Applicator Qualifications: Engage an experienced applicator that has completed painting system applications similar in material and extent to that indicated for this Project with a record of successful in-service performance.

B. Source Limitations: Obtain block fillers, primers and undercoat materials for each coating system from the same manufacturer as the finish coats.

C. Provide lead free prime and finish coatings. All top coatings shall be mold and mildew resistant.

1.5 Delivery, Storage and Handling:

A. Deliver materials to the Project Site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information:
1. Product name or tile of material.
2. Product description (generic classification or binder type).
3. Manufacturer's stock number and date of manufacture.
4. Contents by volume, for pigment and vehicle constituents.
5. Thinning instructions.
6. Application instructions.
7. Color name and number.
8. VOC content

B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 degrees F (7 degrees C). Maintain containers used in storage in a clean condition, free of foreign materials and residue.
1. Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing and application.

1.6 Project Conditions

A. Apply water-based paints only when the temperatures of surfaces to be painted and surrounding air temperatures are between 50 and 90 degrees F (10 and 32 degrees C) unless otherwise stated on the technical data bulletin.

B. Apply solvent-thinned paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 45 and 95 degrees F (7.2 and 35 degrees C).

C. Do not apply paint in snow, rain, fog, or mist, or when the relative humidity exceeds 85 percent, or at temperatures less than 5 degrees F (3 degrees C) above the dew point, or to damp or wet surfaces.
1. Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.

2.1 Manufacturers:

A. Products: Subject to compliance with requirements, provide one of the products in the paint schedules.

B. Manufacturers Names: The following manufacturer is referred to in the paint schedule by use of shortened versions of the name, which is shown below:
1. PPG Industries, Inc.
2. Materials - No substitutions allowed.

2.2 Paint Materials, General

A. Material Compatibility: Provide block fillers, primers, undercoats, and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

B. Material Quality: Provide manufacturer's best-quality "professional" paint material of the various coating types specified. Paint-material containers not displaying manufacturer's product identification will not be acceptable.

Colors: Color guided selected by owner and will be strictly adhered too, unless otherwise noted.

C. Exterior Coatings:

Exterior Ferrous Metals:

Preparation: Remove all visible oil, grease, soil, rust and all other soluble contaminates from steel surface. Uniformly roughen surface with 150-grit paper. Remove all dust before solvent cleaning by the use of stiff bristle brush.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Application: Conventional or HVLP (high volume low pressure)

Exterior and Interior Gas Piping:

Preparation: Remove all visible oil, grease, soil, rust and all other soluble contaminates from pipe surface. Remove all dust before solvent cleaning by the use of stiff bristle brush.
Prime: (1) Coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) Coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils
Application: Conventional or HVLP (high volume low pressure)

Exterior Patio Railing:

Preparation: Remove all visible oil, grease, soil, loose paint, rust and all other soluble contaminates from steel surface. Remove all dust before solvent cleaning SSPC-SP1 by the use of stiff bristle brush. SSPC-SP3 may be required as a more aggressive preparation to remove loose mill scale, loose rust, loose paint and other loose detrimental foreign matter from the surface. Performance is better with more aggressive preparation.
Prime: (1) coat PPG; 95-3300 Durathane DTM Urethane Mastic (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Finish: (1) coat PPG; 95-3300 Durathane DTM Urethane Mastic (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

Exterior Prefinished Metal Wall Panels:

Preparation: Before applying primer or other surface treatments, clean galvanized metal surface to SSPC-SP1 that could impair bond of the various coatings. Remove oil, grease and soap film before priming use of Krud Kutter Metal Clean & Etch may be required on bare or new galvanized. Surface must be clean, dry and free of contaminants, including salt deposits. Additional prep may be needed to SSPC-SP2. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

Note: Some selected areas of bare concrete surfaces will require (1) coat of Perma Crete 4-603XI Alkali Resistant Concrete Primer before steel installation over all concrete surfaces.

Owner Option 1:
Prime: (1) coat XIM Primer Bond - Applied at a dry film thickness of not less than 1.5 to 2.0 mils.
Finish: (2) coats PPG; 90-1110 Series Pitt-Tech Satin DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 2:
Prime: (1) coat PPG; 97-245 Pitt-Guard DTR Epoxy Mastic Primer (263 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 7.0 mils.
Finish: (2) coats PPG; 95-3300 Durathane Urethane Mastic (240 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 3 (Low VOC):
Prime: (1) coat PPG; Amerlock 2 Fast Dry VOC Compliant Epoxy (84 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 6.0 mils.
Finish: (2) coats PPG; Amershield VOC Aliphatic Urethane (84 g/L VOC): Applied at a dry film thickness of not less than 5.0 to 8.0 mils.

Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

Exterior Galvanized Metal:

Preparation: Before applying primer or other surface treatments, clean galvanized metal surface to SSPC-SP1 that could impair bond of the various coatings. Remove oil, grease and soap film before priming use of Krud Kutter Metal Clean & Etch may be required on bare or new galvanized. Surface must be clean, dry and free of contaminants, including salt deposits. Additional prep may be needed to SSPC-SP2. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

Note: Some selected areas of bare concrete surfaces will require (1) coat of Perma Crete 4-503 Concrete Primer before steel installation over all concrete surfaces.

Owner Option 1:
Prime: (1) coat PPG; 6-209 SpeedHide Galvanized Metal Primer (400 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Finish: (2) coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 2:
Prime: (1) coat PPG; 97-245 Pitt-Guard DTR Epoxy Mastic Primer (263 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 7.0 mils.
Finish: (2) coats PPG; 95-3300 Durathane Urethane Mastic (240 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 3 (Low VOC):
Prime: (1) coat PPG; Amerlock 2 Fast Dry VOC Compliant Epoxy (84 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 6.0 mils.
Finish: (2) coats PPG; Amershield VOC Aliphatic Urethane (84 g/L VOC): Applied at a dry film thickness of not less than 5.0 to 8.0 mils.

Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

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REVISION 1 - 7/1/24

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Issue Record:
05/30/24 COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

Contents:
ARCHITECTURAL SPECIFICATIONS

G016

Exterior CMU Primer:

CMU Preparation: Mortar should cure for at least 30 days and preferably 90 days prior to priming. Fill block with an appropriate block filler. Surfaces previously coated with water thinned cement-based paint must be prepared with extra care. If the material appears to be adhering tightly, a masonry sealer may be applied to seal the surface. Check adhesion by applying a piece of masking tape. If the sealer peels off and has loose particles, remove all chalking or crumbling material, re-seal and re-check adhesion.

Field Preparation: Surfaces to be coated must be dry, clean, sound, and free from all contamination including loose and peeling paint, dirt, grease, oil, wax, concrete curing agents and bond breakers, chalk, efflorescence, mildew, rust, product fines, and dust. Remove loose paint, chalk, and efflorescence by wire brushing, scraping, sanding, and/or pressure washing. Putty all nail holes and caulk all cracks and open seams. Sand all glossy, rough, and patched surfaces. Feather back all rough edges to sound surface by sanding.

Prime: (2) Coats PPG; Speedhide Interior/Exterior Masonry Hi Fill Latex Block Filler

Application: Brush, Roll or Spray

Exterior Stucco/EIFS Surfaces (including wet areas):

Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat PPG; 4-603 Perma-Crete Alkali Resistant Primer (100 g/L VOC): Applied at a dry film thickness of not less than 1.2 to 1.9 mils.
Finish: (2) coats PPG; 4-22 Perma-Crete Hi-Build Acrylic (100 g/L VOC): Applied at a dry film thickness of not less than 3.2 to 5.8 mils.
Application: Airless spray with back roll using 3/4" nap roller.

Exterior Wood:

Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat PPG; 17-921 Seal Grip Primer Sealer (100 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) coats PPG; 70-501 Manor Hall Exterior Semi-Gloss or PPG Acri-Shield Semi-Gloss PP649 (50 g/L VOC): Applied at a dry film thickness of not less than 1.5 to 3.0 mils.
Application: Brush, Roll or Spray

D. Interior Coatings:

Interior Metals: (Doors, door frames, where indicated)
Preparation: Remove all visible rust, oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. (Repaints only require spot prime on bare metal surfaces.)
Finish: (2) coats PPG; V-50-410 Breakthrough Semi-gloss Sheen Acrylic (250 g/L VOC): Applied at a dry film thickness of not less than 1.4 to 2.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Metals: (Metal Deck if indicated on Finish Plan)
Preparation: Remove all visible rust, oil, grease, soil and all other foreign substances with cleaning solutions and allow to dry before priming.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. (Primer only required on unpainted decking or to spot prime bare areas in decking.)
Finish: (2) coats PPG; 90-1110 Pitt-Tech Plus Satin Acrylic (100 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Gyp. Bd.:
Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions. Fill hairline cracks, holes and other defects with filler compatible with finish coats. Sand smooth all areas filled and/or areas to make a smooth overall finish.
Prime: (1) coat PPG; 9-900 Pure Performance Acrylic Primer (0 g/L VOC): Applied at a dry film thickness of not less than 1.4 to 2.0 mils. (Spot prime required only on repaint projects.)
Finish: (2) coats PPG; Pure Performance Zero VOC Eggshell 9-500 Series, sheen as shown on finish plan: Applied at a dry film thickness of not less than 1.5 to 2.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Wood Trim and Plywood - Clear Polyurethane Finish:
(Plywood finishes shall be shop applied in a controlled environment)

Shop Preparation: Scuff sand between coats.

Shop Finish: (2) coat, ML Campbell Krystal conversion varnish, Clear Dull Sheen
Application: Spray

Field Preparation: All cuts in field are to be sanded smooth. Scuff sand between coats.

Field Finish: (2) coat, ML Campbell High Performance Pre-Cat Lacquer, Clear Dull Sheen
Application: Wipe on with t-shirt rag.

Exterior Traffic Safety Marking.:
Preparation: All surfaces must be clean, dry and free from oil, grease, antifreeze, loose sand, aggregate and chipping/peeling existing striping. Any curing compounds used on new concrete must be mechanically abraded off prior to striping. When striping on freshly sealed surfaces use caution as some sealers can affect the curing and adhesion of traffic paint. When in doubt, always test adhesion.

For complete drying and minimum dirt retention when striping parking lots, the lots should be closed to traffic for two hours minimum after painting. New asphalt and concrete should be allowed to cure for a minimum of 14 days to maximize adhesion and durability.

Owner Option 1:
Finish: (1) coat PPG; A-2886B Type II, White Zone Marking - Applied at a dry film thickness of not less than 8.6 mils.

Owner Option 2:
Finish: (1) coat PPG; A-2886B Type II, Yellow Zone Marking - Applied at a dry film thickness of not less than 8.6 mils

Application: Applying a test strip to determine dry to no- pickup time when the humidity is higher than 65%. Cone whenever necessary.
- Do not heat paint in striping system above 60 C.
- Do not apply when temperatures are below 3 C.
- Do not apply when rain is forecast.
- Do not apply when temperatures are near or below the dew point or rain is forecast within 1 hour.
- Do not thin more than 5% with acetone and then use immediately.
- Do not apply if temperature is expected to fall below freezing for 6 hours after application of paint.

Application Equipment: Apply with a high quality brush, roller, or by airless spray equipment.

Airless Spray: Pressure 2000 psi, tip 0.015" - 0.021"Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coating s into the skin by airless equipment may cause serious injury.
Brush: Polyester/Nylon Brush
Roller: All-purpose nap roller cover.

E. Color Guide: Refer to Finish Plan and drawings for exact location of all colors.

WHERE	WHAT	COLOR	SHEEN	FINISH TAG
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG White Zone Marking	Satin	N/A
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG Yellow Zone Marking	Satin	N/A
Exterior Galvanized Metal, Flashing and Prefinished Metal Wall Panels	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1001-6 "Knight's Armor"	Satin	N/A
Exterior (Roof Mounted) Gas Piping	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	Yellow	Semi-Gloss	N/A
Exterior and Interior Gas Piping, Where Exposed	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	Match surrounding finishes/verify with architect	Semi-Gloss	N/A
Exterior CMU Primer	PPG Speedhide Interior/Exterior Masonry Hi Fill Latex Block Filler	White	Flat	N/A
Exterior CMU	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Ferrous Metals	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Wood	PPG Manor Hall Acrylic Semi-Gloss 70-501 Series or PPG Acri-Shield Acrylic Semi-Gloss PP649 Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1001-6 "Knight's Armor"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1010-2 "Fog"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1058-7 "Autumn Ridge"	Flat	N/A
Interior Doors, Door Frames, Rails and Rail Frames, Where Specified	PPG Breakthrough 50 Acrylic Satin	PPG V52-90 Black	Satin	D1
Interior Ferrous Metals, Where Specified	PPG Breakthrough 250 Acrylic Eggshell V50-410 Series	PPG 1013-5 "Victorian Pewter"	Eggshell	N/A
Dining Room and Hallway Gyp. Bd.	PPG Pure Performance Zero VOC Semi-Gloss 9-500 as indicated on finish plan	PPG 1001-3 "Thin Ice"	Semi-Gloss	P4
Dining Room and Hallway Gyp. Bd.	PPG Pure Performance Zero VOC Eggshell 9-310 as indicated on finish plan	PPG 1001-3 "Thin Ice"	Eggshell	P3
Dining Room and Hallway Gyp. Bd. Ceiling	PPG Pure Performance Zero VOC Flat 9-100 Series or PPG Speedhide 6-4110XI Flat	PPG 1041-1 "Moonlit Snow"	Flat	C3
Restroom, Cooking, Kitchen and Serving Area Soffit Gyp. Bd.	PPG Pure Performance Zero VOC Eggshell 9-500 Series	PPG 1041-1 "Moonlit Snow"	Eggshell	C3
Interior Metal Roof Deck and Metal Columns	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1013-5 "Victorian Pewter"	Satin	C1
Patio Railing	Durethane DTM Urethane 95-3300 Series	PPG 1001-6 "Knight's Armor"	Gloss	N/A

3.1 Installation:

A. Examination:
1. Verify that site environmental conditions are appropriate for application of coatings specified.
2. Immediately prior to coating application, ensure that surfaces to receive coatings are dry.
3. Ensure that moisture-retaining substrates to receive coatings have moisture content within tolerances allowed by coating manufacturer, using moisture measurement techniques recommended by coating manufacturer.
4. Immediately prior to coating application, examine surfaces to receive coatings for surface imperfections and for contaminants which could impair performance or appearance of coatings, including but not limited to, loose primer, rust, scale, oil, grease, mildew, algae, or fungus, stains or marks, cracks, indentations, or abrasions.
5. Correct the above conditions and any other conditions which could impair performance or appearance of coatings in accordance with specified surface preparation procedures before proceeding with coating application.

B. Preparation:
1. Do not start work until surfaces to be finished are in proper condition to produce finished surfaces of uniform, satisfactory appearance.
2. Stains and Marks: Remove completely, if possible, using materials and methods recommended by coating manufacturer; seal with shellac or other coating acceptable to paint manufacturer stains and marks that might bleed through paint finishes which cannot be completely removed.
3. Remove or protect hardware, electrical plates, mechanical grilles and louvers, lighting fixture trim, and other items not indicated to receive coatings which are adjacent to surfaces to receive coatings.
4. Remove mildew from impervious surfaces by scrubbing with solution of disodium phosphate and bleach. Rinse with clean water and allow substrate to thoroughly dry.
5. For specific substrate preparation, see individual specifications.
6. Provide necessary staging, ladders, shield, protective coverings and drop cloths. Protect floors, walls and adjacent work and materials. Remove and properly replace temporary protection and coverings removed from any part of the work or finish. Repair damage at Contractor's expense.

C. Application:
1. General: Mix, prepare and apply paint according to manufacturer's written instructions.
   a. Use applicators and techniques best suited for substrate and type of material being applied.
   b. Do not apply high-performance coatings over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to forming a durable coating film.
   c. Coating surface treatments, and finishes are indicated in the coating system descriptions.
   d. Provide finish coats compatible with primers used.
   e. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, grilles, covers for finned-tube radiation, and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection.
2. Application Procedures: Apply coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
   a. The number of coats and film thickness required is the same regardless of application method.
   b. Completed Work: Match approved Samples for color, texture, and coverage. Remove, refinish, or recoat work that does not comply with specified requirements as directed by Tenant. Paints and coatings work is subject to acceptance by the Tenant.
   c. Keep brushes and rollers clean, free from contamination and suitable for the finish required.
   d. Unless otherwise indicated, allow exterior paints to dry for 48 hours and interior paints to dry for 24 hours between coats.
   e. Sand lightly and remove dust between coats to achieve required finish.
   f. Finished surfaces shall be uniform in finish and color and free of brush marks, sagging, holidays, corduroy and other imperfections. Coverage and hide shall be complete.
   g. Edges of paint or finish adjoining other materials or colors shall be sharp and clean without overlapping. Cut paint in neatly around glass or other edges.
   h. Paints and coatings work is subject to acceptance by the Tenant. Correct unsatisfactory work not complying with these specifications as directed by the Tenant.

D. Cleaning:
1. After completing painting, clean glass and paint spattered surfaces. Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces.

E. Protection:
1. Protect work of other trades, whether being painted or not, against damage from painting. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Architect / Tenant.

2. Provide "Wet Paint" signs to protect newly painted finishes. After completing painting operations, remove temporary protective wrappings provided by others to protect their work.

3. After work of other trades is complete, touch up and restore damaged or defaced painted surfaces.

F. Maintenance: Furnish extra paint materials from the same production run as the materials applied in the quantities described below. Package paint materials in unopened, factory-sealed containers for storage and identify with labels describing contents. Deliver extra materials to the Tenant.
1. Provide one gallon of paint and wood stain of each type and color required for maintenance purposes. Provide original, unopened, labeled containers with color samples and a list of project use.

DIVISION 10 - SPECIALTIES

SECTION 10522 - PORTABLE FIRE EXTINGUISHES

1.1 General: Provide portable fire extinguishers as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. NFPA 10 "Standard for Portable Fire Extinguishers.

2.1 Materials:

A. Provide minimum 10 lb. capacity fire extinguishers in quantity and type complying with local code and fire regulations requirements.
1. Provide new fire extinguishers fully loaded, tested, UL and FM labeled and listed and ready for use.
2. Provide manufacturer's recommended mounting brackets and hardware.

3.1 Installation:

A. Install fire extinguishers in accordance with manufacturer's installation instructions, at heights and locations acceptable to the local fire regulations enforcement authority

SECTION 10700 - EXTRUDED ALUMINUM CANOPY

1.1 General: Provide canopies as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. AWS, D1.1 - Structural Welding Code - Steel
2. AMMA, Aluminum Finishes AAMA 2604 (FGIA 2604) - Powder Coat

B. Quality Assurance
1. Shop Drawings: To be created under the guidance of a professional engineer. Site Specific stamped drawing may be required by the manufacturer based on location. Drawings must indicate size, material and finish. Include plan, elevations and sections to clearly outline the canopy locations. Include installation procedures, details of joints, attachments and clearances.
   a. Submit within 15 days after contract award.
2. Color charts showing manufacturer's full range of colors from standard line including Chipotle's custom "charcoal" color match to prototypical window mullion system.

2.1 Manufacturers:

A. Architectural Fabrication, Inc. -- Manufacturer is located at 2100 E. Richmond Avenue, Fort Worth, TX 76104. P: (800) 962-8027. E: chipotle@arch-fab.com, W: www.arch-fab.com
B. Substitutions are acceptable assuming they comply with this specification, are submitted based on Quality Assurance and Division1 - Section 01100 requirements and have minimum 10 years experience, and only when approved by Arch PM and Chipotle DM.
1. Awnex, Contact: Katie Dicks, P: 770-704-7140 x151, E: katie@awnexinc.com
2. Uni-Structures, Contact: Dana Fredericks, P: 678-974-1773
3. API, Contact: Jade Moore-Esposito, P: 813-925-0144, E: jesposito@americanproducts.com

2.2 Materials:

A. Specifications are based on Architectural Fabrication, Inc. - Helios Canopy Patent #9,976,310
1. Framing: Gutter fascia, tube, angles: 6063-T6 alloy extruded aluminum. Gutter to be notched in the back to allow steel support arms to pass through.
2. Decking: Extruded aluminum 8" wide deck pan in 6063-T6 or 6063-T5 alloy (Roll form is not acceptable)
3. Steel Support Arms: 3" x 3" x .250" Steel tube support arms w/ 8" w x 5"h x 1/2" thick steel plate welded to the back. Must manufacture steel arm in manner to leave room for LED enclosure at back of canopy.
4. Hardware and Fasteners: Nuts, bolts, washers, clevis pins, screws, anchors and pipe spacers to be zinc plated or galvanized steel required to suit application and per pre-engineered canopy load requirements. Typical wall anchors are minimum ½" diameter. Touch up paint must be provided for each canopy to allow for potential repairs in the field.
5. Flashing: Shall be minimum 0.040-inch aluminum, fabricated to prevent leakage and sealed with Novaflex metal roof sealant in custom color match. Another equivalent sealant is acceptable.
6. LED Enclosure: Each canopy is to have a preformed aluminum LED enclosure along the back edge of the canopy finished in the same powder coat as the canopy. 1" nominal inside width, and a minimum aluminum sheet thickness of .063".
7. Scuppers: Drainage for canopy is (2) aluminum scuppers located at the front of the canopy per drawings. See finish below for details.
8. Finish: All aluminum shall be powder coat finish per FGIA 2604 (aka AAMA 2604). Steel shall be commercially blasted, then coated with a zinc rich primer, and finally the top coat of super polyester powder (2604 compliant) applied.

3.1 Installation:

1. Install canopies per manufacturer's written instructions and videos, and as indicated on architectural drawings
2. Locate and place canopies level, plumb and at indicated alignment with adjacent work.
3. Use concealed anchors where possible.
4. Repair damaged finishes so no evidence remains of corrective work. Return items to the factory that cannot be refinished in the field. Make required alterations and refinish entire unit or provide new units.
5. Protect galvanized and nonferrous-metal surfaces from corrosion or galvanic action by applying a coating of bituminous paint or elastomeric coating on surfaces that will be in contact with concrete, masonry or dissimilar metals.

DIVISION 11- NOT APPLICABLE

DIVISION 12- FURNISHINGS

SECTION 12495 - WINDOW SHADES

1.1 General: Provide window shades as shown and specified.

A. Standards: Shade fabric material shall meet the requirements of the following:
1. NFPA 701 Flame Test and California US Title 19 for flame retardant materials.

B. Field measure window openings and verify installation conditions prior to window shade fabrication

C. Warranty:
1. 5 years against defects in materials and workmanship.
2. 1 year for service call repairs and adjustments.

2.1 Materials:

A. Manufacturer: Insolroll Window Shading Systems, Inc. (800) 447-5534, internet www.insolroll.com

B. Window Shades: Insolroll 2000 Solar Screen Shades, manual operation.
1. Solar Screen Shade Fabric: Insolroll woven fiberglass yarn, 5% openness, Charcoal/Bronze color.
2. Provide manufacturer's recommended mounting brackets and hardware.

C. Fabrication: Unless otherwise indicated, fabricate window shade units to completely fill existing window openings from jamb to jamb and from head to 42" AFF or the nearest horizontal mullion from 40"-44" AFF.
1. Adjustment system controlled by plastic bead chain on polyester cord. Multi-banded steel spring clutches keep shade in desired position.
2. Roller tube 2" extruded aluminum, sized to minimize deflection.
3. Fabric attached to roller tube using two-sided adhesive tape.
4. Fabric bottom hem RF heat sealed pocket with enclosed hem bar.

3.1 Installation:

A. Install window shades level and plumb in accordance with manufacturer's installation instructions and drawing details. Provide units securely anchored in place with recommended hardware and accessories to provide smooth operation without binding.

DIVISIONS 13 - 14 - NOT APPLICABLE

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · KEVIN R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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CHIPOTLE MEXICAN GRILL

CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182566
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TELEPHONE: 614.318.2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5134
CROSS ROADS
11940 US HWY 380
CROSS ROADS, TX 76227

Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.: CMG5134

Contents:

ARCHITECTURAL SPECIFICATIONS

G017

CIVIL CONSTRUCTION PLANS FOR

CHIPOTLE

11940 U.S. HIGHWAY 380

TOWN OF CROSS ROADS
DENTON COUNTY, TEXAS

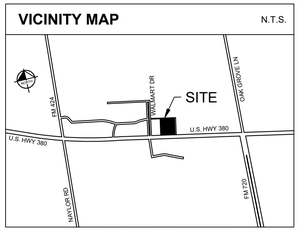
DUTCH BROS COFFEE - 069225635

GOVERNMENT/UTILITY CONTACTS

BUILDING OFFICIAL CONTACT: RODNEY PATTERSON	TOWN OF CROSS ROADS R.PATTERSON@CROSSROADSTX.GOV (940) 365-9693
FIRE DEPARTMENT	LITTLE ELM FIRE DEPARTMENT 100 W. ELDORADO PARKWAY LITTLE ELM, TX 75068 NON-EMERGENCY: 214-975-0420
WATER/WASTEWATER DEPARTMENT CONTACT: EMILY SIMON	MUSTANG SPECIAL UTILITY DISTRICT 7985 FM 2931 AUBREY, TX 76227 (940) 440-5081
STORM DEPARTMENT CONTACT: LEIGH HOLLIS, P.E	TOWN OF CROSSROADS 1401 FM 424 CROSSROADS, TX 76227 (940) 365-9693
ENVIRONMENTAL AGENCY	TCEQ 12100 PARK 35 CIRCLE AUSTIN, TX 78753 (512) 239-1000
ELECTRIC COMPANY CONTACT: JARROD QUALLS	COSERV ELECTRIC JQUALLS@COSERV.COM (940) 391-7545
GAS COMPANY CONTACT: LUIS CONTREAS	COSERV ELECTRIC LCONTRERAS@COSERV.COM (940) 321-7800
TELEPHONE COMPANY CONTACT: PATRICK CLARK	AT&T 2301 RIDGEVIEW DR PLANO, TX 75025 SW9516@ATT.COM (214) 500-1245

VICINITY MAP

N.T.S.



SITE LOCATION MAP
(NOT TO SCALE)

INDEX OF SHEETS

SHEET NO.	DESCRIPTION	DATE	REVISION
C-1.0	COVER SHEET	07/25/2024	--
1 OF 2	REPLAT	JULY 2021	
2 OF 2	REPLAT	JULY 2021	
C-1.2	TECHNICAL SITE PLAN	07/25/2024	--
C-2.0	GENERAL NOTES	07/25/2024	--
C-3.0	EROSION CONTROL PLAN	07/25/2024	--
C-3.1	EROSION CONTROL DETAILS	07/25/2024	--
C-4.0	DEMOLITION PLAN	07/25/2024	--
C-5.1	DIMENSION CONTROL PLAN	07/25/2024	--
C-5.2	STRIPING AND SIGNAGE PLAN	07/25/2024	--
C-5.3	PAVING PLAN	07/25/2024	
C-6.0	GRADING PLAN	07/25/2024	--
C-6.1	EXISTING DRAINAGE AREA MAP	07/25/2024	--
C-6.2	PROPOSED DRAINAGE AREA MAP	07/25/2024	--
C-6.3	STORM PLAN	07/25/2024	--
C-6.4	STORM PROFILES	07/25/2024	--
C-6.5	STORM CALCULATIONS	07/25/2024	--
C-7.0	UTILITY PLAN	07/25/2024	--
C-8.0 - C-8.1	CONSTRUCTION DETAILS	07/25/2024	--
C-9.0 - C-9.5	MUSTANG SPECIAL UTILITY DETAILS	07/25/2024	--
L1.01 - L1.04	LANDSCAPE PLAN	07/25/2024	--
L2.01 - L2.03	IRRIGATION PLAN	07/25/2024	--

NOTES:
1. THE SITEWORK FOR THE PROJECT SHALL MEET OR EXCEED THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR THE NCTCOG - NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (LATEST EDITION), THE TOWN STANDARDS, AND ANY SPECIAL PROVISIONS ADOPTED BY THE TOWN. TOWN STANDARDS GOVERN OVER NCTCOG IN THE EVENT OF A CONFLICT.
2. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO CONTRACT COMPLETION AND THE FINAL CONNECTION OF SERVICES.
3. IF REPRODUCED, THE SCALES SHOWN ON THESE PLANS ARE BASED ON A 24" X 36" SHEET.

PLANS SUBMITTAL/REVIEW LOG

NO.	DESCRIPTION	DATE	MILESTONE
1	1ST TECHNICAL SITE PLAN & CIVIL CONSTRUCTION DOCUMENTS SUBMITTAL	04/08/2024	NOT FOR CONSTRUCTION
2	2ND TECHNICAL SITE PLAN & CIVIL CONSTRUCTION DOCUMENTS SUBMITTAL	05/03/2024	NOT FOR CONSTRUCTION
3	1ST MUSTANG UTILITY PRELIMINARY SUBMITTAL	06/11/2024	NOT FOR CONSTRUCTION
4	2ND MUSTANG UTILITY SUBMITTAL	07/25/2024	NOT FOR CONSTRUCTION

811 Know what's below. Call before you dig.

CAUTION!!
CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

ARCHITECT

ROGUE ARCHITECTS
513 MAIN ST, SUITE 300
FORT WORTH, TX 76102
PH. (817) 820-0433
CONTACT: TAYLOR GRANDORF, AIA, NCARB

OWNER

SAGE CROSSROADS, LLC
1520 OLIVER ST.
HOUSTON, TEXAS 77007
PH. (713) 293-6901
CONTACT: ANDREA METZ

ENGINEER

Kimley»Horn

100 W. OAK STREET
SUITE 203
DENTON, TEXAS 76201
PH. (972) 335-3580
CONTACT: MACK MATTKE, P.E.

STATE OF TEXAS
REGISTRATION NO. F-928

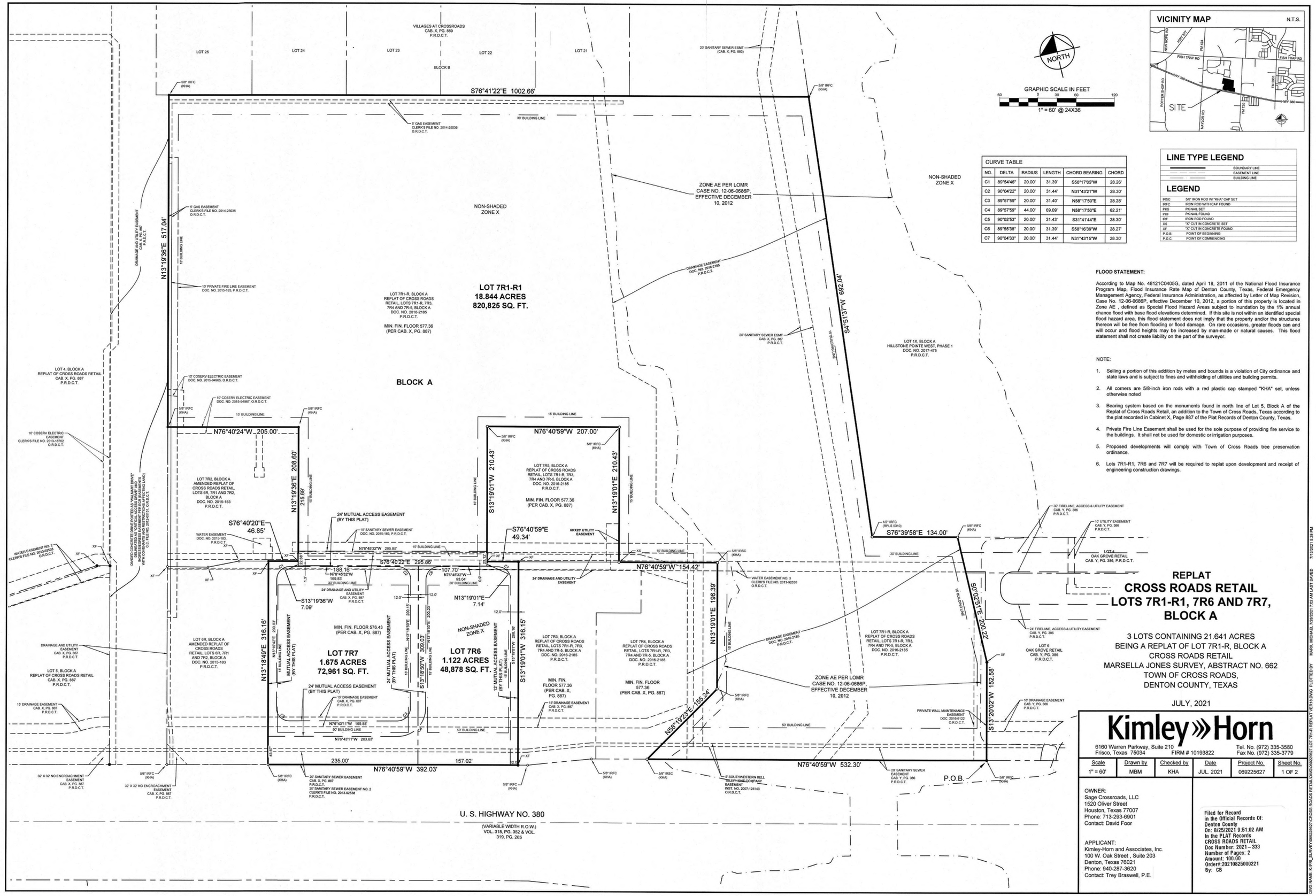
JULY 2024

STATE OF TEXAS
MACKENZIE M. MATTKE
140083
LICENSED
PROFESSIONAL ENGINEER
07/25/2024

APPROVAL:
Ken Skillman 1AUG2024
MUSTANG S.U.D. DATE

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN ACCEPTING THESE PLANS, MUSTANG SPECIAL UTILITY DISTRICT MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

Plotted By: Mukendi Zoe Sheet Set: Chipotle Layout: COV July 25, 2024 03:48:47pm K:\DNT_Civil\069225635 - Dutch Bros OKC\Cad\PlanSheets\Chipotle\C-Cover-Chipotle.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



NORTH

GRAPHIC SCALE IN FEET
60 0 30 60 120
1" = 60' @ 24X36

VICINITY MAP

N.T.S.

CURVE TABLE					
NO.	DELTA	RADIUS	LENGTH	CHORD BEARING	CHORD
C1	89°54'46"	20.00'	31.39'	S58°17'05"W	28.26'
C2	90°04'22"	20.00'	31.44'	N31°43'21"W	28.30'
C3	89°57'59"	20.00'	31.40'	N58°17'50"E	28.28'
C4	89°57'59"	44.00'	69.09'	N58°17'50"E	62.21'
C5	90°02'53"	20.00'	31.43'	S31°41'44"E	28.30'
C6	89°55'38"	20.00'	31.39'	S58°16'39"W	28.27'
C7	90°04'33"	20.00'	31.44'	N31°43'15"W	28.30'

LINE TYPE LEGEND

———	BOUNDARY LINE
— — — —	EASEMENT LINE
— — — —	BUILDING LINE

LEGEND

IRSC	5/8" IRON ROD W/ "KHA" CAP SET
IRFC	IRON ROD WITH CAP FOUND
PKS	PK NAIL SET
PKF	PK NAIL FOUND
IRF	IRON ROD FOUND
XS	"X" CUT IN CONCRETE SET
XF	"X" CUT IN CONCRETE FOUND
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCING

FLOOD STATEMENT:

According to Map No. 48121C0405G, dated April 18, 2011 of the National Flood Insurance Program Map, Flood Insurance Rate Map of Denton County, Texas, Federal Emergency Management Agency, Federal Insurance Administration, as affected by Letter of Map Revision, Case No. 12-06-0686P, effective December 10, 2012, a portion of this property is located in Zone AE , defined as Special Flood Hazard Areas subject to inundation by the 1% annual chance flood with base flood elevations determined. If this site is not within an identified special flood hazard area, this flood statement does not imply that the property and/or the structures thereon will be free from flooding or flood damage. On rare occasions, greater floods can and will occur and flood heights may be increased by man-made or natural causes. This flood statement shall not create liability on the part of the surveyor.

NOTE:

1. Selling a portion of this addition by metes and bounds is a violation of City ordinance and state laws and is subject to fines and withholding of utilities and building permits.
2. All corners are 5/8-inch iron rods with a red plastic cap stamped "KHA" set, unless otherwise noted
3. Bearing system based on the monuments found in north line of Lot 5, Block A of the Replat of Cross Roads Retail, an addition to the Town of Cross Roads, Texas according to the plat recorded in Cabinet X, Page 887 of the Plat Records of Denton County, Texas.
4. Private Fire Line Easement shall be used for the sole purpose of providing fire service to the buildings. It shall not be used for domestic or irrigation purposes.
5. Proposed developments will comply with Town of Cross Roads tree preservation ordinance.
6. Lots 7R1-R1, 7R6 and 7R7 will be required to replat upon development and receipt of engineering construction drawings.

REPLAT
CROSS ROADS RETAIL
LOTS 7R1-R1, 7R6 AND 7R7, BLOCK A

3 LOTS CONTAINING 21.641 ACRES
BEING A REPLAT OF LOT 7R1-R, BLOCK A
CROSS ROADS RETAIL
MARSELLA JONES SURVEY, ABSTRACT NO. 662
TOWN OF CROSS ROADS,
DENTON COUNTY, TEXAS

JULY, 2021

Kimley»Horn
6160 Warren Parkway, Suite 210
Frisco, Texas 75034
Tel. No. (972) 335-3580
FIRM # 10193822
Fax No. (972) 335-3779

Scale	Drawn by	Checked by	Date	Project No.	Sheet No.
1" = 60'	MBM	KHA	JUL. 2021	069225627	1 OF 2

OWNER:
Sage Crossroads, LLC
1520 Oliver Street
Houston, Texas 77007
Phone: 713-293-6901
Contact: David Foor

APPLICANT:
Kimley-Horn and Associates, Inc.
100 W. Oak Street , Suite 203
Denton, Texas 76021
Phone: 940-287-3620
Contact: Trey Braswell, P.E.

Filed for Record
in the Official Records Of:
Denton County
On: 8/25/2021 9:51:02 AM
In the PLAT Records
CROSS ROADS RETAIL
Doc Number: 2021 – 333
Number of Pages: 2
Amount: 100.00
Order#:20210825000221
By: CB

DWG NAME: K:\FRI_SURVEY\069225627-CROSS ROADS RETAIL\DWG\069225627 LOT 7R1-R REPLAT VER1.DWG PLOTTED BY: MARX, MICHAEL 7/29/2021 7:52 AM LAST SAVED: 7/13/2021 5:28 PM

OWNERS CERTIFICATE

STATE OF TEXAS §

COUNTY OF DENTON §

WHEREAS SAGE CROSSROADS, LLC, is the owner of a tract of land situated in the Marsella Jones Survey, Abstract No.662, Town of Cross Roads, Denton County, Texas and being all of Lot 7R1-R, Block A of Replat of Cross Roads Retail, Lots 7R1-R, 7R3, 7R4 and 7R5, Block A, an Addition to the Town of Cross Roads, according to the Map or Plat, recorded in Document No. 2016-2185 of the Plat Records of Denton County, Texas, and being more particularly described by metes and bounds as follows:

BEGINNING at a 5/8-inch iron rod with a plastic cap, stamped "KHA" found for the easterly, southeast corner of said Lot 7R1-R, same being the southwest corner of Lot 6 of Oak Grove Retail, an Addition to the Town of Cross Roads, according to the Map or Plat, recorded in Cabinet Y, Page 386 of the Plat Records of Denton County, Texas, same also being on the northerly right of way line of U. S. Highway No. 380, a variable width right of way;

THENCE North 76°40'59" West, along the southerly line of said Lot 7R1-R and the northerly right of way line of said U. S. Highway No. 380, a distance of 532.30 feet to a 5/8-inch iron rod with a plastic cap, stamped "KHA" set for a southwest corner of said Lot 7R1-R, same being the southeast corner of Lot 7R4, Block A of aforesaid Replat of Cross Roads Retail, Lots 7R1-R, 7R3, 7R4 and 7R5, Block A;

THENCE North 58°19'23" East, departing the northerly right of way line of said U. S. Highway No. 380, along a westerly line of said Lot 7R1-R and the easterly line of said Lot 7R4, a distance of 155.24 feet to a 5/8-inch iron rod with a plastic cap, stamped "KHA" found for corner;

THENCE North 13°19'01" East, continuing along a westerly line of said Lot 7R1-R and the easterly line of said Lot 7R4, a distance of 196.39 feet to a 5/8-inch iron rod with a plastic cap, stamped "KHA" found for northeast corner of said Lot 7R4;

THENCE North 76°40'59" West, along a southerly line of said Lot 7R1-R, the northerly line of said Lot 7R4 and the northerly line of Lot 7R3, Block A of said Replat of Cross Roads Retail, Lots 7R1-R, 7R3, 7R4 and 7R5, Block A, a distance of 154.42 feet to an "X" cut set for a southwest corner of said Lot 7R1-R, same being the southeast corner of Lot 7R5, Block A of said Replat of Cross Roads Retail, Lots 7R1-R, 7R3, 7R4 and 7R5, Block A;

THENCE North 13°19'01" East, along a westerly line of said Lot 7R1-R and the easterly line of said Lot 7R5, a distance of 210.43 feet to a 5/8-inch iron rod with a plastic cap, stamped "KHA" found for the northeast corner of said Lot 7R5;

THENCE North 76°40'59" West, along a southerly line of said Lot 7R1-R and the northerly line of said Lot 7R5, a distance of 207.00 feet to a 5/8-inch iron rod with a plastic cap, stamped "KHA" found for the northwest corner of said Lot 7R5;

THENCE South 13°19'01" West, along an easterly line of said Lot 7R1-R and the westerly line of said Lot 7R5, a distance of 210.43 feet to an "X" cut found for the southwest corner of said Lot 7R5;

THENCE South 76°40'59" East, along a northerly line of said Lot 7R1-R and the southerly line of said Lot 7R5, a distance of 49.34 feet to an "X" cut found for the northwest corner of aforesaid Lot 7R3, Block A;

THENCE South 13°19'01" West, along an easterly line of said Lot 7R1-R and the westerly line of said Lot 7R3, distance of 316.15 feet to an "X" cut found for a southeast corner of said Lot 7R1-R and the southwest corner of said Lot 7R3, same being on the northerly right of way line of aforesaid U. S. Highway No. 380;

THENCE North 76°40'59" West, along the southerly line of said Lot 7R1-R and the northerly right of way line of said U. S. Highway No. 380, a distance of 392.03 feet to a 5/8-inch iron rod with a plastic cap, stamped "KHA" found for the southerly, southwest corner of said Lot 7R1-R, same being the southeast corner of Lot 6R, Block A of Amended Plat of Cross Roads Retail, Lots 6R, 7R1 and 7R2, Block A, an Addition to the Town of Cross Roads, according to the Map or Plat, recorded in Document No. 2015-183 of the Plat Records of Denton County, Texas;

THENCE North 13°18'49" East, departing the northerly right of way line of said U. S. Highway No. 380, along a westerly line of said Lot 7R1-R and the easterly line of said Lot 6R, a distance of 316.16 feet to an "X" cut found for the northeast corner of said Lot 6R, same being on the southerly line of Lot 7R2 of said Amended Plat of Cross Roads Retail, Lots 6R, 7R1 and 7R2, Block A;

THENCE South 76°40'20" East, along a northerly line of said Lot 7R1-R and the southerly line of said Lot 7R2, a distance of 46.85 feet to an "X" cut found for the southeast corner of said Lot 7R2;

THENCE North 13°19'36" East, along a westerly line of said Lot 7R1-R and the easterly line of said Lot 7R2, a distance of 208.60 feet to a point for the northeast corner of said Lot 7R2;

THENCE North 76°40'24" West, along a southerly line of said Lot 7R1-R and the northerly line of said Lot 7R2, a distance of 205.00 feet to a 5/8-inch iron rod with a plastic cap, stamped "KHA" found for the westerly, southwest corner of said Lot 7R1-R and the northwest corner of said Lot 7R2, same being on the easterly line of Lot 4, Block A of the Replat of Cross Roads Retail, an Addition to the Town of Cross Roads, according to the Map or Plat, recorded in Cabinet X, Page 887 of the Plat Records of Denton County, Texas;

THENCE North 13°19'36" East, along the westernmost line of said Lot 7R1-R and the easterly line of said Lot 4, a distance of 517.04 feet to a 5/8-inch iron rod with a plastic cap, stamped "KHA" found for the northwest corner of said Lot 7R1-R and the easterly, northeast corner of said Lot 4, same being on the southerly line of Block b of the Villages at Crossroads, an Addition to the Town of Cross Roads, according to the Map or Plat, recorded in Cabinet X, Page 889 of the Plat Records of Denton County, Texas;

THENCE South 76°41'22" East, along the northerly line of said Lot 7R1-R and the southerly line of said Block b, a distance of 1002.66 feet to a 5/8-inch iron rod with a plastic cap, stamped "KHA" found for northeast corner of said Lot 7R1-R and the southeast corner of said Block b, same being on the westerly line of Lot 1X, Block A of Hillstone Pointe West, Phase 1, an Addition to the Town of Cross Roads, according to the Map or Plat, recorded in Document No. 2017-475 of the Plat Records of Denton County, Texas;

THENCE South 04°51'37" West, along the easterly line of said Lot 7R1-R and the westerly line of said Lot 1X, a distance of 692.04 feet to a 1/2-inch iron rod with a plastic cap, stamped "RPLS 5310" found for the southwest corner of said Lot 1X;

THENCE South 76°39'58" East, along a northerly line of said Lot 7R1-R and the southerly line of said Lot 1X, a distance of 134.00 feet to a 5/8-inch iron rod with a plastic cap, stamped "KHA" found for easterly, northeast corner of said Lot 7R1-R, same being the northwest corner of aforesaid Lot 6 of Oak Grove Retail;

THENCE South 00°02'51" East, along the common line of said Lot 7R1-R and said Lot 6, a distance of 200.22 feet to an "X" cut found for corner;

THENCE South 13°20'02" West, continuing along the common line of said Lot 7R1-R and said Lot 6, a distance of 152.58 feet to the **POINT OF BEGINNING** and containing 21.641 acres (942,664 square feet) of land, more or less.

NOW THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

That SAGE CROSSROADS, LLC ("Owner"), acting herein by and through its duly authorized officer, does hereby adopt this plat designating the herein described property as **REPLAT OF CROSS ROADS RETAIL, LOTS 7R1-R1, 7R6 AND 7R7, BLOCK A**, an addition to the Town of Cross Roads, Texas (the "Town"), and does hereby dedicate to the Town:

(i) easements for the purposes shown on this plat and for the mutual benefit, use, and accommodation of all public utility entities including the Town providing services to the addition created hereby and desiring to use or using the same.

No buildings or structures shall be constructed or placed upon, or across the easements dedicated herein. The Town and public utility entities shall have the right to remove and keep removed all or parts of any buildings or structures which may in any way endanger or interfere with their respective easements.

This plat approved subject to all platting ordinances, rules, regulations, and resolutions of the Town of Cross Roads, Texas.

WITNESS MY HAND at 11:05 AM, this 5th day of August 2021.

SAGE CROSSROADS, LLC

By: David Foor

DAVID FOOR VP
Print Name and Title

STATE OF TEXAS §

COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, a Notary Public in and for said county and state, on this day personally appeared David Foor, VP of Sage Crossroads, LLC, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and consideration therein expressed.

Given under my hand and seal of office this the 5th day of August, 2021.

NOTARY PUBLIC in and for the STATE OF TEXAS

SUNNY FARRILL
Notary Public, State of Texas
Comm. Expires 07-10-2023
Notary ID 124176729

SURVEYOR'S CERTIFICATE

KNOW ALL MEN BY THESE PRESENTS:
I, Michael B. Marx, a Registered Professional Land Surveyor in the State of Texas, do hereby certify that I have prepared this plat from an actual on the ground survey of the land, and that the corner monuments shown thereon were properly placed under my personal supervision in accordance with Platting Rules and Regulations of the Town of Cross Roads, Denton County, Texas.

Michael B. Marx, R.P.L.S. 5181
KIMLEY-HORN AND ASSOCIATES, INC.
6160 Warren Pkwy., Suite 210
Frisco, Texas 75034
Phone: (972) 335-3580

STATE OF TEXAS
REGISTERED
MICHAEL B. MARX
5181
PROFESSIONAL
LAND SURVEYOR

STATE OF TEXAS §

COUNTY OF COLLIN §

BEFORE ME, the undersigned Authority, A Notary Public in and for said county and state, on this day personally appeared Michael B. Marx, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and consideration thereof expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE
THIS 20th DAY OF JULY, 2021.

NOTARY PUBLIC in and for the STATE OF TEXAS

JENNIFER MALONE
Notary Public, State of Texas
Comm. Expires 05-09-2023
Notary ID 11611213

Recommended for Approval

Chairperson, Planning and Zoning Commission — Date: 8/12/21

Town of Cross Roads, Texas

Approved For Construction

Mayor, Town of Cross Roads — Date: 8/5/2021

The undersigned, the Town Secretary, of the Town of Cross Roads, Texas, hereby certifies that the foregoing replat of Cross Roads Retail, Lots 7R1-R1, 7R6 and 7R7, Block A, an Addition to the Town of Cross Roads was submitted to the Town Council on the 21st day of June, 2021, and the Council, by formal action, then and there accepted the dedication of streets, alleys, parks, easements, public parks, and water and sewer lines, as shown set forth in and upon said plat, and said Council further authorizes the Mayor to note the acceptance thereof for construction by signing his/her name as herein above described.

Witness my hand this 12th day of August, AD, 2021

Town Secretary, Town of Cross Roads — Date: August 10, 2021

TOWN OF CROSS ROADS
CROSS ROADS, TEXAS

REPLAT
CROSS ROADS RETAIL
LOTS 7R1-R1, 7R6 AND 7R7, BLOCK A

3 LOTS CONTAINING 21.641 ACRES
BEING A REPLAT OF LOT 7R1-R, BLOCK A
CROSS ROADS RETAIL
MARSELLA JONES SURVEY, ABSTRACT NO. 662
TOWN OF CROSS ROADS,
DENTON COUNTY, TEXAS

JULY, 2021

Kimley»Horn
6160 Warren Parkway, Suite 210
Frisco, Texas 75034
FIRM # 10193822
Tel. No. (972) 335-3580
Fax No. (972) 335-3779

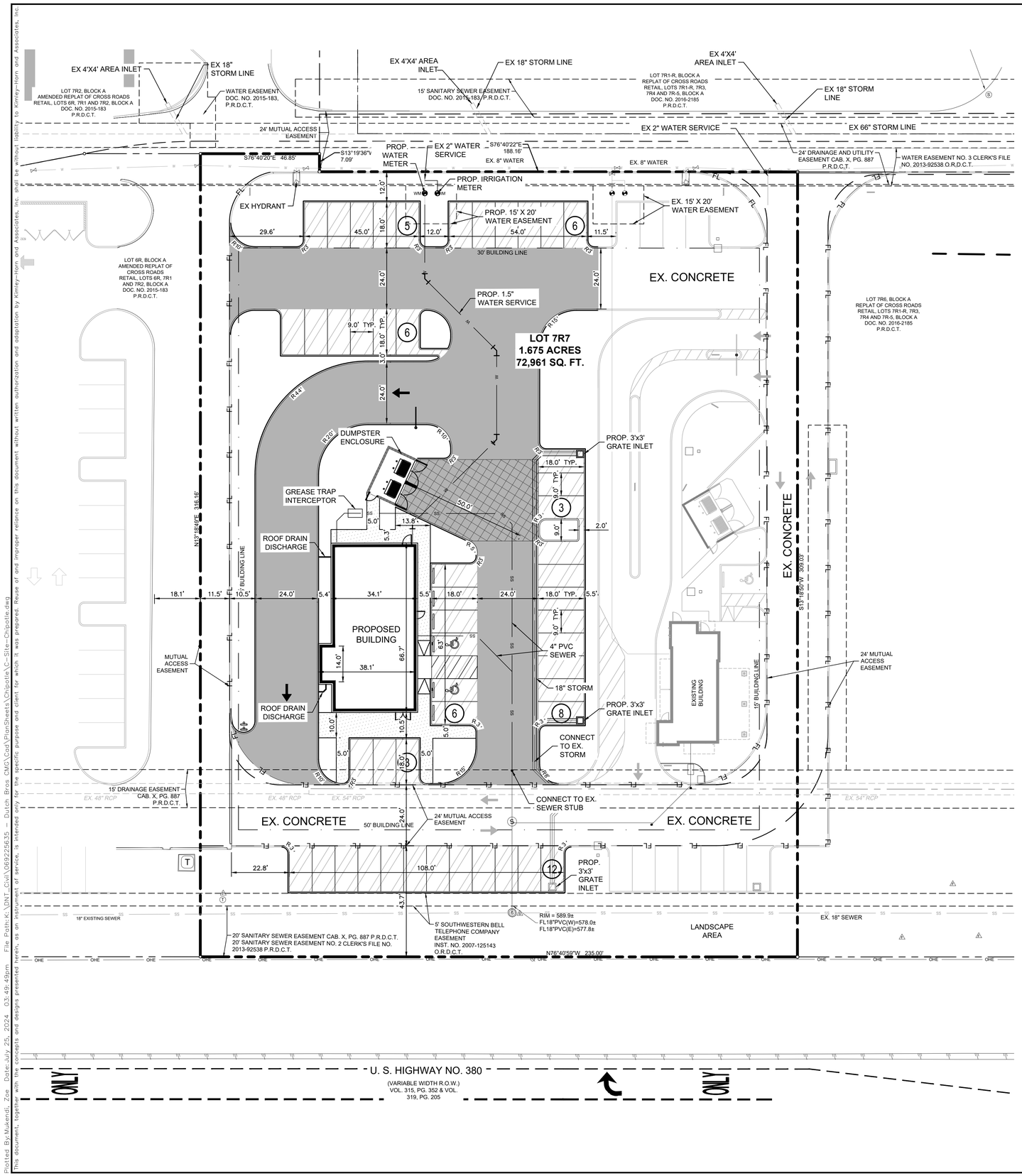
Scale	Drawn by	Checked by	Date	Project No.	Sheet No.
-	MBM	KHA	JUL. 2021	069225627	2 OF 2

OWNER:
Sage Crossroads, LLC
1520 Oliver Street
Houston, Texas 77007
Phone: 713-293-6901
Contact: David Foor

APPLICANT:
Kimley-Horn and Associates, Inc.
100 W. Oak Street , Suite 203
Denton, Texas 76021
Phone: 940-287-3620
Contact: Trey Braswell, P.E.

Filed for Record
in the Official Records Of:
Denton County
On: 8/25/2021 9:51:02 AM
In the PLAT Records
CROSS ROADS RETAIL
Doc Number: 2021 – 333
Number of Pages: 2
Amount: 100.00
Order#:20210825000221
By: CB

DWG NAME: K:\FRI_SURVEY\069225627-CROSS ROADS RETAIL\DWG\069225627 LOT 7R1-R REPLAT TERR1.DWG PLOTTED BY: MARX, MICHAEL 7/30/2021 7:02 AM LAST SAVED: 7/19/2021 5:29 PM



PARKING / SITE DATA		
LOT 7R7 (WEST BUILDING)		
EXISTING ZONING	PD	
PROPOSED USE	RESTAURANT W/ DRIVE-THRU	
LOT AREA	72,961 SF / 1.675 AC	
BUILDING AREA	2,393 SF	
FINISHED FLOOR ELEVATION	592.5 FT	
PAVEMENT AREA	23,838 SF	
	REQUIRED	PROVIDED
TOTAL PARKING (TOWN)	20 SPACES	46 SPACES
ACCESSIBLE	1 SPACE	2 SPACES
SEATING AREA	-	58 SEATS
DRIVE-THRU STACKING	6 SPACES	6 SPACES
FLOOR AREA RATIO	0.40 MAX	-
BUILDING HEIGHT	26' MAX	19' 4"
LOT COVERAGE	N/A	N/A
OPEN SPACE	N/A	N/A

PARKING REQUIRED FOR DRIVE-THRU RESTAURANT:
1 SPACE PER EVERY 3 SEATS UNDER MAX SEATING
42 INTERIOR SEATS, 16 EXTERIOR SEATS = 58 SEATS
58 SEATS / 3 = 20 PARKING STALLS REQUIRED

EX. PARKING / SITE DATA		
LOT 7R7 (EAST BUILDING)		
EXISTING ZONING	PD	
EXISTING USE	RESTAURANT W/ DRIVE-THRU	
LOT AREA	72,961 SF / 1.675 AC	
BUILDING AREA	956 SF	
FINISHED FLOOR ELEVATION	590.0 FT	
PAVEMENT AREA	26,299 SF	
	REQUIRED	PROVIDED
TOTAL PARKING (TOWN)	8 SPACES	12 SPACES
ACCESSIBLE	1 SPACE	1 SPACES
SEATING AREA	-	-
DRIVE-THRU STACKING	6 SPACES	16 SPACES
FLOOR AREA RATIO	0.40 MAX	-
BUILDING HEIGHT	26' MAX	24'
LOT COVERAGE	N/A	N/A
OPEN SPACE	N/A	N/A

PARKING REQUIRED FOR DRIVE-THRU RESTAURANT:
TOWN/PD PARKING: 8.00/1000 S.F. OF SEATING AREA

DETENTION NOTE

ACCORDING TO RECORD DRAWINGS DATED JANUARY 16, 2008 FOR THE VILLAGE AT CROSS ROADS (COMMERCIAL) BY KIMLEY-HORN, THE PROPOSED DEVELOPMENT IS SIZED FOR DEVELOPED CONDITIONS.

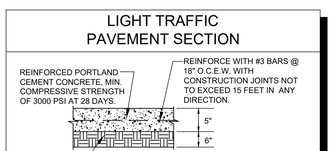
FLOODPLAIN NOTE

ACCORDING TO FEMA FLOOD INSURANCE RATE MAP (FIRM) MAP NO. 48121C0405G DATED APRIL 18, 2011 BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FOR DENTON COUNTY, TEXAS, LOT 7R6 & 7R7 ARE LOCATED WITHIN NON-SHADED ZONE X.

TOWN OF CROSS ROADS SITE PLAN NOTES

1. BUILDINGS WITH AN AGGREGATE SUM OF 5,000 SQUARE FEET OR GREATER ON A LOT SHALL HAVE AUTOMATIC FIRE SPRINKLERS INSTALLED THROUGHOUT ALL STRUCTURES. ALTERNATIVE FIRE PROTECTION MEASURES MAY BE APPROVED BY THE FIRE DEPARTMENT.
2. ALL SIGNAGE IS SUBJECT TO BUILDING INSPECTION DIVISION APPROVAL.
3. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
4. ALL RADII ARE 3' OR 10' UNLESS NOTED OTHERWISE.
5. ALL FIRE LANE RADII ARE A MINIMUM OF 30'.
6. ALL CURBS SHALL BE 6" STANDARD EXCEPT WHERE OTHERWISE NOTED ON PLANS.

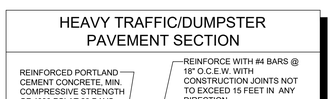
LIGHT TRAFFIC PAVEMENT SECTION



HEAVY TRAFFIC/FIRE LANE PAVEMENT SECTION



HEAVY TRAFFIC/DUMPSTER PAVEMENT SECTION



BENCHMARKS

BM#301 "X" SET ON TOP OF THE NORTHEAST CORNER OF A TRANSFORMER PAD CORNER LOCATED 80' NORTH OF THE NORTH CURB LINE OF HIGHWAY 380, AND 2,100' EAST OF MAYLOR ROAD. ELEV = 593.38'

BM#204 "X" SET ON THE NORTH SIDE OF A CONCRETE DRIVE, 370' NORTH OF THE NORTH EDGE OF HIGHWAY 380, AND 385' EAST OF THE CENTER OF A DIVIDED CONCRETE DRIVE POSTED AS "WALMART DRIVE". ELEV = 592.91'

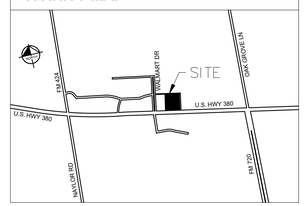
CAUTION!!
THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION . IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE. CALL 811 AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN VICINITY.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

VICINITY MAP

N.T.S.



LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- PROPOSED CONCRETE CURB
- EXISTING CURB
- FL — PROPOSED FIRE LANE & MUTUAL ACCESS EASEMENT
- EXISTING TREE
- 3 — PROPOSED PARKING COUNT
- PROPOSED WATER METER
- EXISTING FIRE HYDRANT
- 5" LIGHT TRAFFIC PAVEMENT SECTION. REFERENCE CONSTRUCTION DETAILS
- 6" HEAVY TRAFFIC/FIRE LANE PAVEMENT SECTION. REFERENCE CONSTRUCTION DETAILS
- 7" HEAVY TRAFFIC/DUMPSTER PAVEMENT SECTION. REFERENCE CONSTRUCTION DETAILS
- 4" STANDARD DUTY CONCRETE FOR SIDEWALKS. REFERENCE CONSTRUCTION DETAILS
- PROPOSED LANDSCAPE AREA
- EXISTING PAVEMENT
- SS — PROPOSED SANITARY SEWER
- SS — EXISTING SANITARY SEWER
- W — PROPOSED WATER
- W — EXISTING WATER
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- PROPOSED STORM INLET
- FIRE HOSE LAY LENGTH

Know what's below. Call before you dig.

ACTION

	APPROVED	DENIED
STAFF	Date	Initials
P&Z	Date	Initials
MAYOR	Date	Initials

Neighborhood # ____

See the Staff Approval Letter or P&Z Results Memo for any conditions associated with the approval of the project.

SITE PLAN FOR LOT 7R7
LOTS 7R7, BLOCK A

MARSELLA JONES SURVEY, ABSTRACT NO. 662
TOWN OF CROSS ROADS,
DENTON COUNTY, TEXAS

OWNER:
SAGE CROSSROADS, LLC
1520 OLIVER ST
HOUSTON, TX 77007-6035
CONTACT: ANDREA METZ
PHONE: 713-293-6901

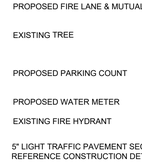
APPLICANT/ENGINEER:
KIMLEY-HORN & ASSOCIATES
100 W. OAK STREET, SUITE 203
DENTON, TEXAS 76201
CONTACT: MACK MATTKE, P.E.
PHONE: 972-335-3580

DATE PREPARED:05/03/2024

No.	REVISIONS	DATE

Kimley»Horn

© 2024 KIMLEY-HORN AND ASSOCIATES, INC.
100 WEST OAK STREET, SUITE 203, DENTON, TX 76201
PHONE: 940.287.3620
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928



SCALE: AS SHOWN
DESIGNED BY MMM
DRAWN BY CBM
CHECKED BY MMM

TECHNICAL SITE PLAN

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE 07/25/2024
PROJECT NO. 069225635
SHEET NUMBER C-1.2

Plotted By:Mukendi, Zoe Date:July 25, 2024 03:49:49pm File Path:K:\DNT_Civil\069225635 - Dutch Bros CWG\Cad\PlanSheets\Chipotle\C-Site-Chipotle.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

KH GENERAL NOTES

OVERALL:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE PLANS, CITY (OR TOWN) STANDARD DETAILS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION AND DETAIL SHALL BE FOLLOWED.
2. THE CONTRACTOR SHALL COMPLY WITH CITY (OR TOWN) "GENERAL NOTES" FOR CONSTRUCTION, IF EXISTING AND REQUIRED BY THE CITY. FOR INSTANCES WHERE THEY CONFLICT WITH THESE KH GENERAL NOTES, THEN THE MORE RESTRICTIVE SHALL APPLY.
3. THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE AUTHORITIES' SPECIFICATIONS AND REQUIREMENTS.
4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.
5. THE EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE TOPOGRAPHIC SURVEY PREPARED BY THE PROJECT SURVEYOR, AND ARE BASED ON THE BENCHMARKS SHOWN. THE CONTRACTOR SHALL REFERENCE ALL PRIMARY POINTS TO THE SAME BENCHMARKS.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING TOPOGRAPHIC SURVEY SHOWN ON THE PLANS REPRESENTS EXISTING FIELD CONDITIONS PRIOR TO CONSTRUCTION, AND SHALL REPORT ANY DISCREPANCIES FOUND TO THE OWNER AND ENGINEER IMMEDIATELY.
7. IF THE CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHIC SURVEY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY AT THEIR OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO THE OWNER AND ENGINEER FOR REVIEW.
8. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING.
9. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL, INCLUDING BENCHMARKS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS. PROPERTY LINES AND CORNERS SHALL BE HELD AS THE HORIZONTAL CONTROL.
10. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ARCHITECT, ENGINEER, AND IF APPLICABLE THE CITY AND OWNER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE CITY, ENGINEER, AND OWNER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
11. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA AND BECOME COMMONLY KNOWN WITH THEM LOCATE THEIR EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
13. CONTRACTOR SHALL CALL TEXAS 811 AN ADEQUATE AMOUNT OF TIME PRIOR TO COMMENCING CONSTRUCTION OR ANY EXCAVATION.
14. CONTRACTOR SHALL USE EXTREME CAUTION AS THE SITE CONTAINS VARIOUS KNOWN AND UNKNOWN PUBLIC AND PRIVATE UTILITIES.
15. THE LOCATIONS, ELEVATIONS, DEPTH, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY RECORDS AND ARE CONSIDERED APPROXIMATE AND NOT COMPLETE. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THE PRESENCE, LOCATION, ELEVATION, DEPTH, AND DIMENSION OF EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE ENGINEER SHALL BE NOTIFIED WHEN A PROPOSED IMPROVEMENT CONFLICTS WITH AN EXISTING UTILITY.
16. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY ADJUSTMENTS AND RELOCATIONS OF EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, ADJUSTING EXISTING MANHOLES TO MATCH PROPOSED GRADE, RELOCATING EXISTING POLES AND GUY WIRES THAT ARE LOCATED IN PROPOSED DRIVEWAYS, ADJUSTING THE HORIZONTAL OR VERTICAL ALIGNMENT OF EXISTING UNDERGROUND UTILITIES TO MATCH PROPOSED GRADE OR CROSSING WITH A PROPOSED UTILITY, AND ANY OTHERS THAT MAY BE ENCOUNTERED THAT ARE UNKNOWN AT THIS TIME AND NOT SHOWN ON THESE PLANS.
17. CONTRACTOR SHALL ARRANGE FOR OR PROVIDE, AT ITS EXPENSE, ALL GAS, TELECOMMUNICATIONS, CABLE, OVERHEAD AND UNDERGROUND POWER LINE, AND UTILITY POLE ADJUSTMENTS NEEDED.
18. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF FRANCHISE UTILITIES THAT ARE NECESSARY FOR ON-SITE AND OFF-SITE CONSTRUCTION, AND SERVICE TO THE PROPOSED DEVELOPMENT.
19. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTORS' FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF UTILITIES OR STRUCTURES. IF IT IS NECESSARY TO TEMPORARILY REMOVE, SHORING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
20. BRACING OF UTILITY POLES MAY BE REQUIRED BY THE UTILITY COMPANIES WHEN TRENCHING OR EXCAVATING IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR, WITH NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE PAY ITEM.
21. CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, FEDERAL AND UTILITY OWNER REGULATIONS PERTAINING TO WORK SETBACKS FROM POWER LINES.
22. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS, APPROVALS, AND BONDS PRIOR TO CONSTRUCTION.
23. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, GEOTECHNICAL REPORT AND ADDENDA, PROJECT AND CITY SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.
24. ALL SHOP DRAWINGS AND OTHER DOCUMENTS THAT REQUIRE ENGINEER REVIEW SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF CONSTRUCTION OF THAT ITEM, SO THAT NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSE IS AVAILABLE.
25. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES, AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO USE OF THE FACILITY AND THE FINAL CONNECTION OF SERVICES.
26. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
27. CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
28. ALL SYMBOLS SHOWN ON THESE PLANS (E.G. FIRE HYDRANT, METERS, VALVES, INLETS, ETC…) ARE FOR PRESENTATION PURPOSES ONLY AND ARE NOT TO SCALE. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS WITH APPROPRIATE CITY INSPECTOR.
29. THE SCOPE OF WORK FOR THE CIVIL IMPROVEMENTS SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. REFERENCE THE BUILDING PLANS (E.G. ARCHITECTURAL, STRUCTURAL, MEP) FOR AREAS WITHIN 5-FEET OF THE BUILDING AND WITHIN THE BUILDING FOOTPRINT.
30. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL FINAL BUILDING DIMENSIONS.
31. THE PROPOSED BUILDING FOOTPRINT(S) SHOWN IN THESE PLANS WAS PROVIDED TO KIMLEY-HORN AND ASSOCIATES, INC. (KH) BY THE PROJECT ARCHITECT AT THE TIME THESE PLANS WERE PREPARED. IT MAY NOT BE THE FINAL CORRECT VERSION BECAUSE THE BUILDING DESIGN WAS ONGOING. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING THE FINAL CORRECT VERSION OF THE BUILDING FOOTPRINT WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO LAYOUT. DIMENSIONS AND/OR COORDINATES SHOWN ON THESE PLANS WERE BASED ON THE ABOVE STATED ARCHITECTURAL FOOTPRINT, AND ARE THEREFORE A PRELIMINARY LOCATION OF THE BUILDING. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY WHAT PART OF THE BUILDING THE ARCHITECT'S FOOTPRINT REPRESENTS (E.G. SLAB, OUTSIDE WALL, MASONRY LEDGE, ETC….) AND TO CONFIRM ITS FINAL POSITION ON THE SITE BASED ON THE FINAL ARCHITECTURAL FOOTPRINT, CIVIL DIMENSION CONTROL PLAN, SURVEY BOUNDARY AND/OR PLAT. ANY DIFFERENCES FOUND SHALL BE REPORTED TO KH IMMEDIATELY.
32. ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING SUBSEQUENT ADDENDA.
33. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL MATERIALS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND COMPLY WITH CITY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING MATERIALS. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR MATERIALS TESTING.
34. ALL COPIES OF MATERIALS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY.
35. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE MATERIALS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.
36. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.
37. ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS OUTSIDE OF THE WORK AREA WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR.
38. THE CONTRACTOR SHALL PROTECT ALL STRUCTURES, UTILITIES, MONUMENTS, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/PEDESTALS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
39. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY OR PUBLIC IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO: FENCES, WALLS, SIGNS, PAVEMENT, CURBS, UTILITIES, SIDEWALKS, GRASS, TREES, LANDSCAPING, AND IRRIGATION SYSTEMS, ETC… TO ORIGINAL CONDITION OR BETTER AT NO COST TO THE OWNER.
40. ALL AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, INCLUDING AS NECESSARY GRADING, LANDSCAPING, CULVERTS, AND PAVEMENT.
41. THE CONTRACTOR SHALL SALVAGE ALL EXISTING POWER POLES, SIGNS, WATER VALVES, FIRE HYDRANTS, METERS, ETC… THAT ARE TO BE RELOCATED DURING CONSTRUCTION.
42. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES.
43. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.
44. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.
45. SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
46. THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE ENGINEER'S SEAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY PROCEDURES AND PROGRAMS.
47. SIGNS RELATED TO SITE OPERATION OR SAFETY ARE NOT INCLUDED IN THESE PLANS.
48. CONTRACTOR OFFICE AND STAGING AREA SHALL BE AGREED ON BY THE OWNER AND CONTRACTOR PRIOR TO BEGINNING OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING REQUIREMENTS FOR THE CONSTRUCTION OFFICE, TRAILER, STORAGE, AND STAGING OPERATIONS AND LOCATIONS.
49. LIGHT POLES, SIGNS, AND OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN ACCESSIBLE ROUTES.
50. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
51. TOP RIM ELEVATIONS OF ALL EXISTING AND PROPOSED MANHOLES SHALL BE COORDINATED WITH TOP OF PAVEMENT OR FINISHED GRADE AND SHALL BE ADJUSTED TO BE FLUSH WITH THE ACTUAL FINISHED GRADE AT THE TIME OF PAVING.
52. CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED VALVES, FIRE HYDRANTS, AND OTHER UTILITY APPURTENANCES TO MATCH ACTUAL FINISHED GRADES AT THE TIME OF PAVING.
53. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SEQUENCING AND PHASING, AND SHALL CONTACT THE APPROPRIATE CITY OFFICIALS, INCLUDING BUILDING OFFICIAL, ENGINEERING INSPECTOR, AND FIRE MARSHALL TO LEARN OF ANY REQUIREMENTS.
54. CONTRACTOR IS RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND APPROVAL BY THE CITY OF A TRAFFIC CONTROL PLAN PRIOR TO THE START OF CONSTRUCTION, AND THEN THE IMPLEMENTATION OF THE PLAN.
55. CONTRACTOR SHALL KEEP A NEAT AND ACCURATE RECORD OF CONSTRUCTION, INCLUDING ANY DEVIATIONS OR VARIANCES FROM THE PLANS.
56. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO THE ENGINEER AND CITY IDENTIFYING ALL DEVIATIONS AND VARIATIONS FROM THESE PLANS MADE DURING CONSTRUCTION.

EROSION CONTROL:

1. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL AND WATER QUALITY REQUIREMENTS, LAWS, AND ORDINANCES THAT APPLY TO THE CONSTRUCTION SITE LAND DISTURBANCE.
2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE "TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 150000".
3. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE.
4. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT.
5. CONTRACTOR IS SOLELY RESPONSIBLE FOR INSTALLATION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL EROSION CONTROL DEVICES, BEST MANAGEMENT PRACTICES (BMPS), AND FOR UPDATING THE EROSION CONTROL PLAN DURING CONSTRUCTION AS FIELD CONDITIONS CHANGE.
6. CONTRACTOR SHALL DOCUMENT THE DATES OF INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL FOR EACH BMP EMPLOYED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE.
7. AS STORM SEWER INLETS ARE INSTALLED ON-SITE, TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED AT EACH INLET PER APPROVED DETAILS.
8. THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE AREA IT PROTECTS HAS BEEN PERMANENTLY STABILIZED.
9. CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL DEVICES NEEDED DUE TO PROJECT PHASING.
10. CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND MAKE FIELD ADJUSTMENTS AND MODIFICATIONS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE. IF THE EROSION CONTROL DEVICES DO NOT EFFECTIVELY CONTROL EROSION AND PREVENT SEDIMENTATION FROM WASHING OFF THE SITE, THEN THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
11. OFF-SITE SOIL BORROW, SPOIL, AND STORAGE AREAS (IF APPLICABLE) ARE CONSIDERED AS PART OF THE PROJECT SITE AND MUST ALSO COMPLY WITH THE EROSION CONTROL REQUIREMENTS FOR THIS PROJECT. THIS INCLUDES THE INSTALLATION OF BMP'S TO CONTROL EROSION AND SEDIMENTATION AND THE ESTABLISHMENT OF PERMANENT GROUND COVER ON DISTURBED AREAS PRIOR TO FINAL APPROVAL OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AND EROSION CONTROL PLAN TO INCLUDE BMPS FOR ANY OFF-SITE THAT ARE NOT ANTICIPATED OR SHOWN ON THE EROSION CONTROL PLAN.
12. ALL STAGING, STOCKPILES, SPOIL, AND STORAGE SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. PROTECTIVE MEASURES SHALL BE PROVIDED IF NEEDED TO ACCOMPLISH THIS REQUIREMENT, SUCH AS COVERING OR ENCIRCLING THE AREA WITH AN APPROPRIATE BARRIER.
13. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES, BMPS, DISTURBED AREAS, AND VEHICLE ENTRY AND EXIT AREAS WEEKLY AND WITHIN 24 HOURS OF ALL RAINFALL EVENTS OF 0.5 INCHES OR GREATER, AND KEEP A RECORD OF THIS INSPECTION IN THE SWPPP BOOKLET IF APPLICABLE, TO VERIFY THAT THE DEVICES AND EROSION CONTROL PLAN ARE FUNCTIONING PROPERLY.
14. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF EGRESS IN ACCORDANCE WITH CITY SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE STABILIZED ENTRANCE AT ALL TIMES FOR ALL INGRESS/EGRESS.
15. SITE ENTRY AND EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING AND FLOWING OF SEDIMENT AND DIRT ONTO OFF-SITE ROADWAYS. ALL SEDIMENT AND DIRT FROM THE SITE THAT IS DEPOSITED ONTO AN OFF-SITE ROADWAY SHALL BE REMOVED IMMEDIATELY
16. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS FROM THE AFFECTED OFF-SITE ROADWAYS THAT ARE A RESULT OF THE CONSTRUCTION, AS REQUESTED BY OWNER AND CITY. AT A MINIMUM, THIS SHOULD OCCUR ONCE PER DAY FOR THE OFF-SITE ROADWAYS.
17. WHEN WASHING OF VEHICLES IS REQUIRED TO REMOVE SEDIMENT PRIOR TO EXITING THE SITE, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP BMP.
18. CONTRACTOR SHALL INSTALL A TEMPORARY SEDIMENT BASIN FOR ANY ON-SITE DRAINAGE AREAS THAT ARE GREATER THAN 10 ACRES, PER TCEQ AND CITY STANDARDS. IF NO ENGINEERING DESIGN HAS BEEN PROVIDED FOR A SEDIMENTATION BASIN ON THESE PLANS, THEN THE CONTRACTOR SHALL ARRANGE FOR AN APPROPRIATE DESIGN TO BE PREPARED.
19. ALL FINES IMPOSED FOR SEDIMENT OR DIRT DISCHARGED FROM THE SITE SHALL BE PAID BY THE RESPONSIBLE CONTRACTOR.
20. WHEN SEDIMENT OR DIRT HAS CLOGGED THE CONSTRUCTION ENTRANCE VOID SPACES BETWEEN STONES OR DIRT IS BEING TRACKED ONTO A ROADWAY, THE AGGREGATE PAD MUST BE WASHED AND PAVING SURFACE REPLACED. RUNOFF FROM THE WASH-DOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL SEDIMENTATION. PERIODIC RE-GRADING OR NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE CONSTRUCTION ENTRANCE.
21. TEMPORARY EROSION AND SEDIMENT CONTROL VEGETATION SHALL BE INITIATED WITHIN 14 DAYS OF THE LAST DISTURBANCE OF ANY AREA, UNLESS ADDITIONAL CONSTRUCTION IN THE AREA IS EXPECTED WITHIN 21 DAYS OF THE LAST DISTURBANCE.
22. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING CONSTRUCTION, ALWAYS CLEANING UP DIRT, LOOSE MATERIAL, AND TRASH AS SOON AS POSSIBLE.
23. UPON COMPLETION OF FINE GRADING, ALL SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. STABILIZATION IS ACHIEVED WHEN THE AREA IS EITHER COVERED BY PERMANENT IMPERVIOUS STRUCTURES, SUCH AS BUILDINGS, SIDEWALK, PAVEMENT, PATIO, AND/OR CONSTRUCTED, UNIFORM VEGETATION.
24. AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE DREDGED, AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS.

STORM WATER DISCHARGE AUTHORIZATION:

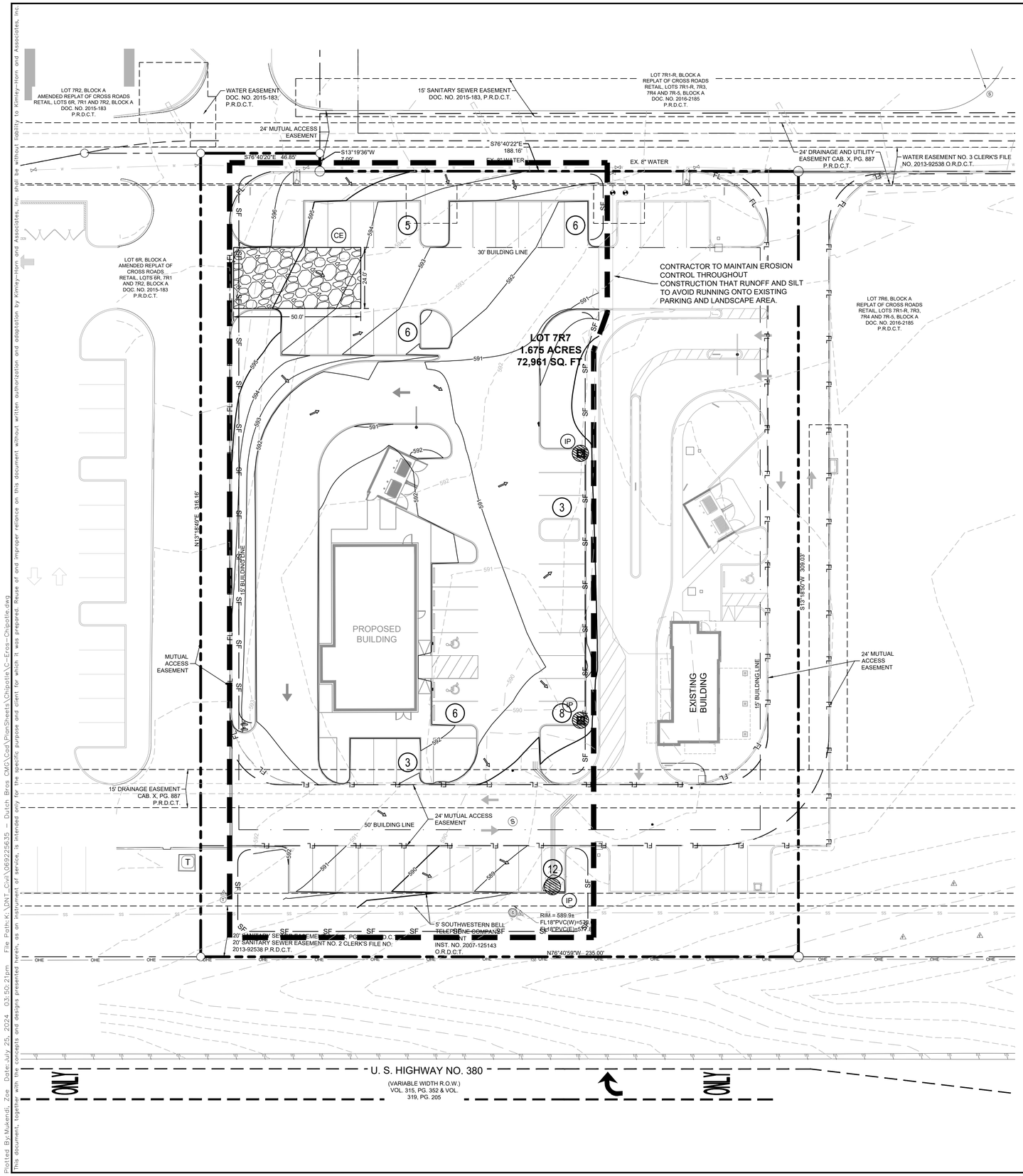
1. CONTRACTOR SHALL COMPLY WITH ALL TCEQ AND EPA STORM WATER POLLUTION PREVENTION REQUIREMENTS.
2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 150000.
3. THE CONTRACTOR SHALL ENSURE THAT ALL PRIMARY OPERATORS SUBMIT A NOI TO TCEQ AT LEAST SEVEN DAYS PRIOR TO COMMENCING CONSTRUCTION (IF APPLICABLE), OR IF UTILIZING ELECTRONIC SUBMITTAL PRIOR TO COMMENCING CONSTRUCTION. ALL PRIMARY OPERATORS SHALL PROVIDE A COPY OF THE SIGNED NOI TO THE OPERATOR OF ANY MS4 (TYPICALLY THE CITY) RECEIVING DISCHARGE FROM THE SITE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE, INCLUDING POSTING SITE NOTICE, INSPECTIONS, DOCUMENTATION, AND SUBMISSION OF ANY INFORMATION REQUIRED BY THE TCEQ AND EPA (E.G. NOI).
5. ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN THE REQUIRED CONTRACTOR CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPPP.
6. A COPY OF THE SWPPP, INCLUDING NOI, SITE NOTICE, CONTRACTOR CERTIFICATIONS, AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY BY THE RESPONSIBLE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.
7. A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO TCEQ BY ANY PRIMARY OPERATOR WITHIN 30 DAYS AFTER ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, TRANSFER OF OPERATIONAL CONTROL HAS OCCURRED, OR THE OPERATOR HAS OBTAINED ALTERNATIVE AUTHORIZATION UNDER A DIFFERENT PERMIT. A COPY OF THE NOT SHALL BE PROVIDED TO THE OPERATOR OF ANY MS4 RECEIVING DISCHARGE FROM THE SITE.

DEMOLITION:

1. KH IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS PRELIMINARY DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACT THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE.
2. KH DOES NOT WARRANT OR REPRESENT THAT THE PLAN, WHICH WAS PREPARED BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY, OR THAT THE UTILITIES SHOWN ARE ALL THE UTILITIES THAT EXIST. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ITS OWN SITE RECONNAISSANCE TO SCOPE ITS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF THEIR FACILITIES.
3. THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR, NOTHING MORE. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. REMOVAL OR PRESERVATION OF IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
4. CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW THE FOLLOWING REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THE DEMOLITION PLAN:
   a. ENVIRONMENTAL SITE ASSESSMENT PROVIDED BY THE OWNER,
   b. ASBESTOS BUILDING INSPECTION REPORT PROVIDED BY THE OWNER,
   c. GEOTECHNICAL REPORT PROVIDED BY THE OWNER.
   d. OTHER REPORTS THAT ARE APPLICABLE AND AVAILABLE.
5. CONTRACTOR SHALL CONTACT THE OWNER TO VERIFY WHETHER ADDITIONAL REPORTS OR AMENDMENTS TO THE ABOVE CITED REPORTS HAVE BEEN PREPARED AND TO OBTAIN/REVIEW/AND COMPLY WITH THE RECOMMENDATION OF SUCH STUDIES PRIOR TO STARTING ANY WORK ON THE SITE.
6. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS, AND COMPLY.
7. KH DOES NOT REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE SHOWING ALL ITEMS THAT WILL NEED TO BE DEMOLISHED AND REMOVED.
8. SURFACE PAVEMENT INDICATED MAY OVERLAY OTHER HIDDEN STRUCTURES, SUCH AS ADDITIONAL LAYERS OF PAVEMENT, FOUNDATIONS OR WALLS, THAT ARE ALSO TO BE REMOVED.

GRADING:

1. THE CONTRACTOR AND GRADING SUBCONTRACTOR SHALL VERIFY THE SUITABILITY OF EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE CIVIL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
2. CONTRACTOR SHALL OBTAIN ANY REQUIRED GRADING PERMITS FROM THE CITY.
3. UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREA REFLECT TOP OF PAVEMENT SURFACE. IN LOCATIONS ALONG A CURB LINE, ADD 6-INCHES (OR THE HEIGHT OF THE CURB) TO THE P



EROSION CONTROL NOTES

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
2. CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.
3. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS.
4. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. SEE PHASING SCHEDULE THIS SHEET.
5. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
6. CONTRACTOR TO PROVIDE INLET PROTECTION IN PUBLIC ROW ONLY DURING EARTH MOVING ACTIVITIES . CONTRACTOR TO ENSURE PONDING DOES NOT OCCUR IN PUBLIC ROW OR ON ADJACENT PROPERTIES AT ANY TIME DURING CONSTRUCTION.
7. CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, THE CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PARKING LOT CONSTRUCTION.
8. CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR ANY AFFECTED INLETS DOWNSTREAM OF THE PROPOSED IMPROVEMENTS, IF NEEDED..
9. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO INCLUDE BMP'S FOR ANY OFF-SITE MATERIAL WASTE, BORROW OR EQUIPMENT STORAGE AREAS.
10. CONTRACTOR IS RESPONSIBLE FOR SUBMITTAL OF NOI, NOT, POSTING OF SITE NOTICES, AND ANY ADDITIONAL INFORMATION OR SUBMITTALS REQUIRED BY TCEQ, EPA, OR LOCAL JURISDICTION.
11. COORDINATE EXISTING TREES TO REMAIN WITH LANDSCAPE PLANS. ALL EXISTING TREES TO REMAIN ARE TO RECEIVE TREE PROTECTION AROUND THE CRITICAL ROOT ZONE IN ORDER TO PREVENT DAMAGE DURING CONSTRUCTION. TREE PROTECTION SHOULD BE INSTALLED PRIOR TO ANY DEMOLITION OR EARTH DISTURBING ACTIVITIES.

SITE MAP GENERAL NOTES

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
2. CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.
3. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS AND/OR SLOPES.
4. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
5. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
6. SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.

SITE DATA

LOT AREA	1.67± AC
TOTAL ONSITE DISTURBED AREA	1.10± AC
TOTAL OFFSITE DISTURBED AREA	0.00± AC
TOTAL DISTURBED AREA	1.10± AC
PRE-DEVELOPMENT RUNOFF COEFFICIENT	0.35
POST-DEVELOPMENT RUNOFF COEFFICIENT	0.85

BENCHMARKS

BM#301 "X" SET ON TOP OF THE NORTHEAST CORNER OF A TRANSFORMER PAD CORNER LOCATED 80' NORTH OF THE NORTH CURB LINE OF HIGHWAY 380, AND 2,100' EAST OF MAYLOR ROAD. ELEV = 593.38'

BM#204 "X" SET ON THE NORTH SIDE OF A CONCRETE DRIVE, 370' NORTH OF THE NORTH EDGE OF HIGHWAY 380, AND 385' EAST OF THE CENTER OF A DIVIDED CONCRETE DRIVE POSTED AS "WALMART DRIVE". ELEV = 592.91'

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

LEGEND

- PROPERTY LINE
- 475 PROPOSED CONTOUR
- 475 EXISTING CONTOUR
- SF SILT FENCE
- LIMITS OF DISTURBANCE
- IP INLET PROTECTION
- CE CONSTRUCTION ENTRANCE
- FS FILTER SOCK

EROSION CONTROL SCHEDULE AND PHASING

THE PROJECT SHALL GENERALLY CONFORM TO THE FOLLOWING PHASING SCHEDULE. REFERENCE THE SWPPP BOOK AND TPDES GENERAL PERMIT FOR DETAILED REQUIREMENTS.

PHASE 1 - DEMOLITION
- A. INSTALL PERIMETER BMPs INCLUDING THE CONSTRUCTION ENTRANCE/EXIT, SWPPP SIGNAGE, SILT FENCE, AND ALL OTHER NECESSARY BMPs ACCORDING TO THE LOCATION SHOWN ON THE EROSION CONTROL PLAN. CLEAR ONLY THE MINIMUM AREA REQUIRED TO INSTALL BMPs.
- B. SET THE PROJECT OFFICE TRAILER AND PREPARE TEMPORARY PARKING AND STORAGE AREAS.
- C. DENOTE DATES OF BMP INSTALLATION AND MAINTENANCE ON SITE-MAPS.
- D. BEGIN DEMOLITION AND CLEARING OF THE SITE.
- E. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WHENEVER CLEARING, GRADING, OR EARTH DISTURBING ACTIVITIES HAVE CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED AND WILL NOT RESUME WITHIN 14 DAYS PER GENERAL PERMIT REQUIREMENTS.

PHASE 2 - GRADING
- A. ENSURE APPROPRIATE BMPs ARE IN PLACE DOWNSTREAM OF SITE WORK OR WHERE RUNOFF MAY EXIT THE SITE.
- B. BEGIN GRADING THE SITE.
- C. SEED AND RE-VEGETATE SLOPES AS AREAS ARE BROUGHT TO GRADE OR STOCKPILES THAT WILL REMAIN INACTIVE FOR 14 DAYS PER GENERAL PERMIT REQUIREMENTS.

PHASE 3 - UTILITIES
KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.
- A. INSTALL UTILITIES, STORM DRAINS, CURB AND GUTTERS.
- B. INSTALL INLET PROTECTION AS SPECIFIED ON PLAN SHEETS AS STORM STRUCTURES ARE INSTALLED.
- C. TEMPORARILY STABILIZE, THROUGHOUT CONSTRUCTION, ANY DISTURBED AREAS THAT ARE LIKELY TO REMAIN INACTIVE FOR 14 DAYS.

PHASE 4 - PAVING
- A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.
- B. STABILIZE SUBGRADE.
- C. PAVE PARKING LOT AND SIDEWALKS AS SPECIFIED ON PLAN SHEETS.

PHASE 5 - LANDSCAPING AND DEVELOPMENT
- A. INSTALL LANDSCAPING PER THE LANDSCAPE PLANS AND DETAILS.
- B. REMOVE EROSION CONTROL DEVICES WHEN FINAL STABILIZATION IS ACHIEVED PER THE TPDES GENERAL PERMIT.
- C. STABILIZE ANY AREAS DISTURBED BY REMOVAL OF BMPs.

Know what's below. Call before you dig.

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No.	REVISIONS	DATE

Kimley»Horn
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TEXAS REGISTERED ENGINEERING FIRM F-928

07/25/2024

SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
AS SHOWN	MMM	CBM	MMM

EROSION CONTROL PLAN

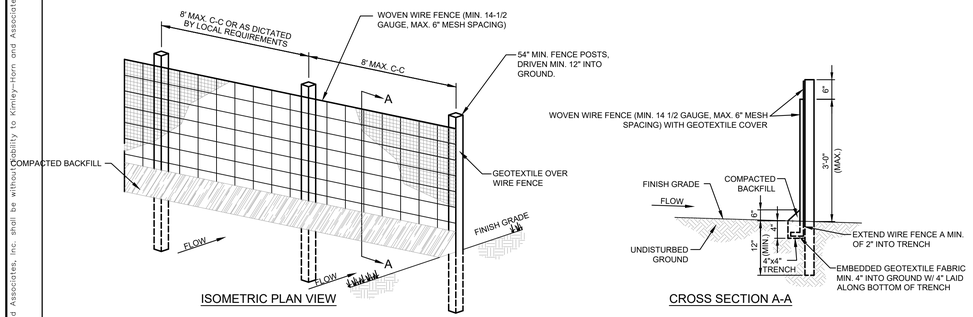
CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE 07/25/2024

PROJECT NO. 069225635

SHEET NUMBER C-3.0

Plotted By:Mukendi, Zoe Date:July 25, 2024 03:50:21pm File Path:K:\DNT_Civil\069225635 - Dutch Bros CMG\Cad\PlanSheets\Chipotle\C-Eros-Chipotle.dwg
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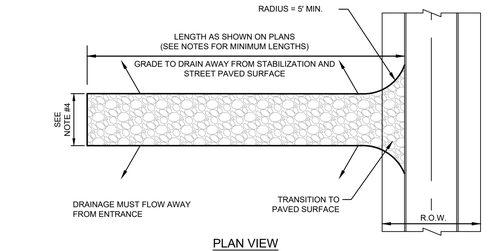
ISOMETRIC PLAN VIEW

CROSS SECTION A-A

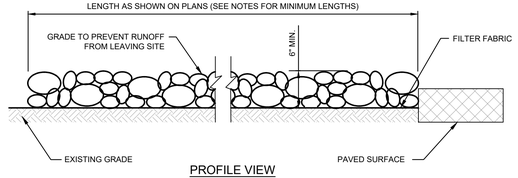
NOTE:
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
2. GEOTEXTILE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN.
5. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
6. ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS INDICATED OTHERWISE

POSTS: STEEL EITHER T OR U TYPE.
FENCE: WOVEN WIRE, 14-1/2 GA. 6" MAX. MESH OPENING
FABRIC: 1. AMOCO 1198
2. BELTECH 810
3. MIRAFI 130X
4. LING GTF 190
5. SI 915 SC

E-16 — SILT FENCE DETAIL
N.T.S.
M:\-STND\DETAILS\CIVIL\EROSION\E-16.dwg 10/2008



PLAN VIEW



PROFILE VIEW

NOTES:
1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE.
2. LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 30 FEET FOR LOTS WHICH ARE LESS THAN 150 FEET FROM EDGE OF PAVEMENT. THE MINIMUM DEPTH IN ALL OTHER CASES SHALL BE 50 FEET.
3. STONE LAYER THICKNESS SHALL NOT BE LESS THAN 6
4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS. INCHES.
5. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.
7. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

E-29 — STABILIZED CONSTRUCTION ENTRANCE DETAIL
N.T.S.
M:\-STND\DETAILS\CIVIL\EROSION\E-15.dwg 10/2008

SILT DIKE

DIKE PLAN VEIW

NOTES:
1. INSTALLED SILT DIKE UNIT SHALL HAVE CONTINUOUS AND FIRM CONTACT WITH PAVEMENT.

2. ADHESIVES SHALL BE LIQUID NAIL OR APPROVED EQUAL FOR CONCRETE PAVEMENT APPLICATIONS AND EMULSIFIED ASPHALT FOR ASPHALT APPLICATIONS.
ADHESIVE SHALL BE PLACED WHERE THE UNITS OVERLAP AND A 20" STRIP ALONG BOTH EDGES.

SILT DIKE
(ON EXISTING PAVEMENT)
N.T.S.
SDP

DETAIL OF INLET SEDIMENT CONTROL DEVICE

PROJECT:		DR. BY:
CITY/STATE:	DATE:	DR. NO:

AREA INLET PROTECTION FILTER BARRIER	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 202.14	
		DATE AUG '23	STANDARD DRAWING NO. 1190

IP — GRATE INLET PROTECTION
N.T.S.

NOTE:
TOWN OF CROSSROADS DETAILS TAKE PRECEDENCE IN CITY R.O.W. AND EASEMENTS

Know what's **below.** **Call** before you dig.

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TEXAS REGISTERED ENGINEERING FIRM F-928

REGISTERED PROFESSIONAL ENGINEER
MARK M. MCCALLUM
140083
LICENSED
07/25/2024

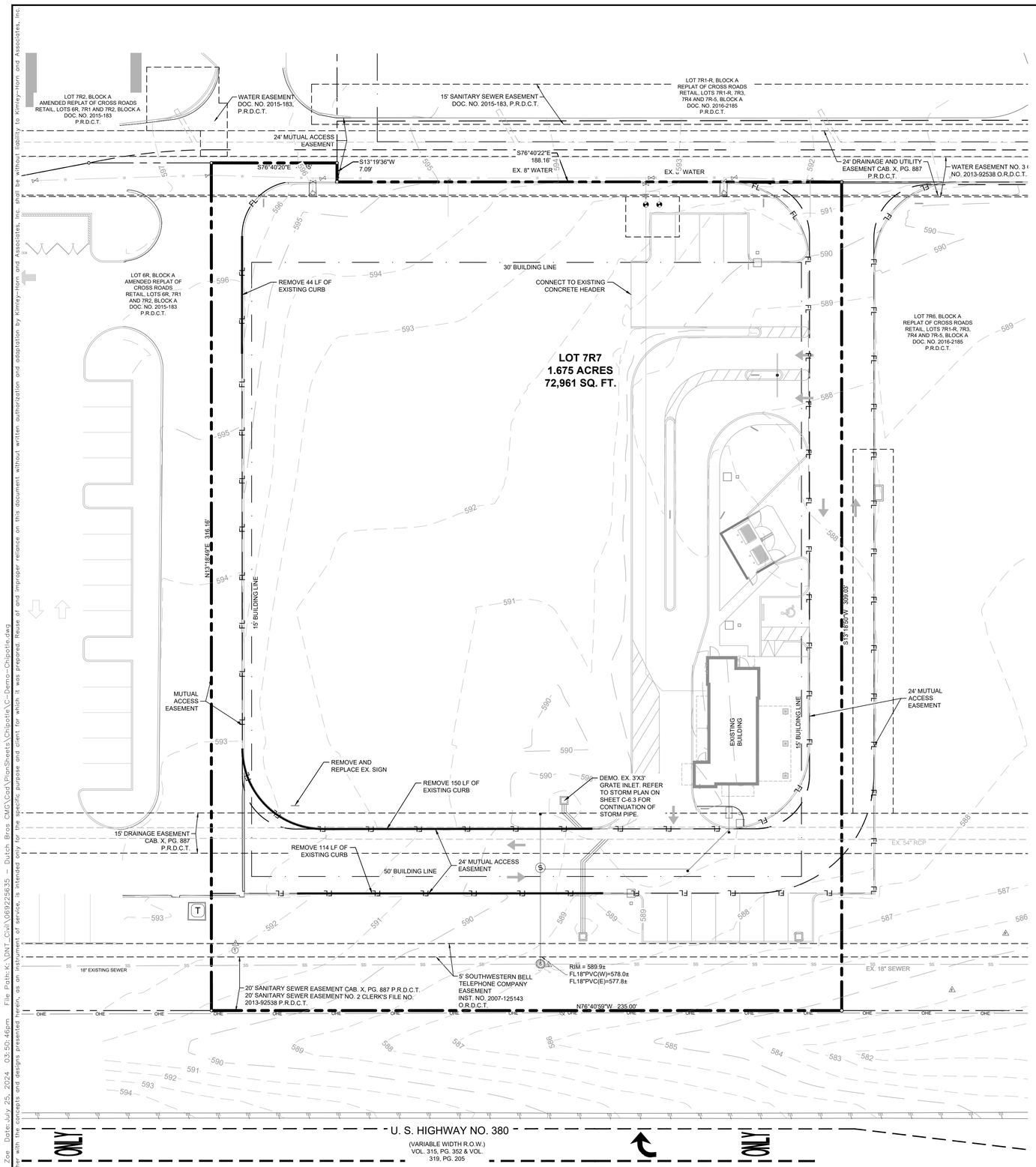
SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
AS SHOWN	MMM	CBM	MMM

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

EROSION CONTROL DETAILS

DATE 07/25/2024
PROJECT NO. 069225535
SHEET NUMBER C3.1

Plotted By:Mukendi, Zoe Date:July 25, 2024 03:50:30pm File Path:K:\DNT_Civ\069225635 - Dutch Bros CMC\Cad\PlanSheets\Chipotle\C-Eros-Detl-Chipotle.dwg
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DEMOLITION NOTES

1. INSTALL ALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS REQUIRED TO CONTROL SEDIMENT FROM LEAVING THE SITE PRIOR TO COMMENCING DEMOLITION WORK ON SITE.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE PROPOSED PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
3. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY THEMSELVES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
5. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR MARKING ONSITE LOCATIONS OF EXISTING UTILITIES.
6. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
7. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
8. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY CITY AND OWNER.
9. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE EXISTING FACILITIES TO REMAIN, THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/ STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN, ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.
10. CONTRACTOR SHALL LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS, BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IT'S REMOVAL AND REPAIR.
11. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPT. AND THE MUSTANG WATER DISTRICT TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO EXISTING BUILDINGS TO REMAIN AND SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH THE CITY/COUNTY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATER MAIN SHUT OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.
12. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTORS' EXPENSE.
13. CONCRETE/ASPHALT/BRICK, ETC. CAN BE CRUSHED (ON SITE OR OFFSITE) AND REUSED AS BASE MATERIAL FOR FUTURE PAVING AND BUILDING AREAS AS LONG AS IT MEETS REQUIRED GRADATION PER PLANS, CITY/NCTCOG REQUIREMENTS AND GEOTECH REPORT.
14. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
15. CONTRACTOR SHALL REFERENCE THE LANDSCAPE PLAN FOR THE LOCATION OF THE TREES THAT ARE ALLOWED TO REMAIN/TO BE REMOVED ONCE A TREE REMOVAL PERMIT IS OBTAINED BY THE CONTRACTOR.
16. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
17. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, AND EROSION CONTROL PLANS AND INSPECTION REPORTS (SWPPP).
18. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
19. CONTRACTOR IS RESPONSIBLE FOR PREPARING AND IMPLEMENTING A TRAFFIC CONTROL PLAN AND THE INSTALLATION OF TRAFFIC CONTROL DEVICES FOR ANY STREET WORK.
20. ALL DEMOLITION WORK OR CONSTRUCTION VEHICLE TRAFFIC WITHIN 10 FEET OF THE CANOPY OF ANY TREE TO BE SAVED SHALL CLOSELY COORDINATED WITH TREE PRESERVATION ACTIVITIES.
21. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
22. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
23. ANY RECYCLED MATERIAL TO BE STOCKPILED ON THE SITE SHALL BE STORED IN AS SMALL AN AREA AS PRACTICAL AND THE LOCATION OF ANY STOCKPILE SHALL BE WELL CLEAR OF THE BUILDING PAD AREA AND THE LOCATION MUST BE PRE-APPROVED BY THE ENGINEER AND OWNER PRIOR TO STOCKPILING.
24. CONTRACTOR TO PULL ALL TREE REMOVAL PERMITS FOR ANY REQUIRED TREE REMOVAL.
25. ALL IRRIGATION ON-SITE NOT TO BE RE-USED SHOULD BE REMOVED. REFER TO IRRIGATION PLAN.
26. REMOVE AND/OR PLUG EXISTING UTILITIES SUCH AS STORM DRAINAGE, SANITARY SEWER, WATER, GAS, ELECTRIC, AND TELEPHONE AS SHOWN OR AS NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING EACH UTILITY COMPANY TO COORDINATE REMOVAL OF ALL UTILITIES AND FOR DETERMINING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO COMMENCING WORK.
27. QUANTITIES SHOWN HERE ARE APPROXIMATE AND ARE PROVIDED FOR CONVENIENCE ONLY AND NOT FOR BID PURPOSES. CONTRACTOR SHALL VERIFY QUANTITIES NECESSARY TO DEMO FACILITIES SHOWN.
28. REFERENCE ALTA SURVEY FOR TREE SIZE AND SPECIES INFO.
29. REFERENCE PHASE I ESA BY TERRACON FOR ENVIRONMENTAL CONDITIONS THAT MAY BE PRESENT ON SITE.
30. PRIOR TO DEMOLITION, CONTRACTOR IS TO FIELD VERIFY LOCATION OF ELECTRIC SERVICE LINE TO EXISTING WALMART'S PYLON SIGN. THE CONTRACTOR IS TO ENSURE POWER TO THE SIGN IS MAINTAINED AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO EXISTING FACILITIES TO REMAIN IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE, AT THEIR OWN EXPENSE.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

DEMOLITION LEGEND

- EXISTING PAVEMENT, BUILDING, AND APPURTENANCES TO BE REMOVED
- EXISTING CURB TO BE REMOVED
- BOUNDARY LINE
- EASEMENT LINE
- BUILDING LINE
- W — WATER LINE
- SS — SANITARY SEWER LINE
- STORM SEWER LINE
- GAS — UNDERGROUND GAS LINE
- OHP — OVERHEAD UTILITY LINE
- UGE — UNDERGROUND ELECTRIC LINE
- UGT — UNDERGROUND TELEPHONE LINE
- OHE — OVERHEAD ELECTRIC LINE
- FENCE
- CONCRETE PAVEMENT
- ASPHALT PAVEMENT

BENCHMARKS

BM#301 "X" SET ON TOP OF THE NORTHEAST CORNER OF A TRANSFORMER PAD CORNER LOCATED 80' NORTH OF THE NORTH CURB LINE OF HIGHWAY 380, AND 2,100' EAST OF MAYLOR ROAD. ELEV = 593.38'

BM#204 "X" SET ON THE NORTH SIDE OF A CONCRETE DRIVE, 370' NORTH OF THE NORTH EDGE OF HIGHWAY 380, AND 385' EAST OF THE CENTER OF A DIVIDED CONCRETE DRIVE POSTED AS "WALMART DRIVE". ELEV = 592.91'

Know what's **below.** **Call** before you dig.

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No.	REVISIONS	DATE

Kimley»Horn

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WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

07/25/2024

SCALE: AS SHOWN
DESIGNED BY: MMM
DRAWN BY: CBM
CHECKED BY: MMM

DEMOLITION PLAN

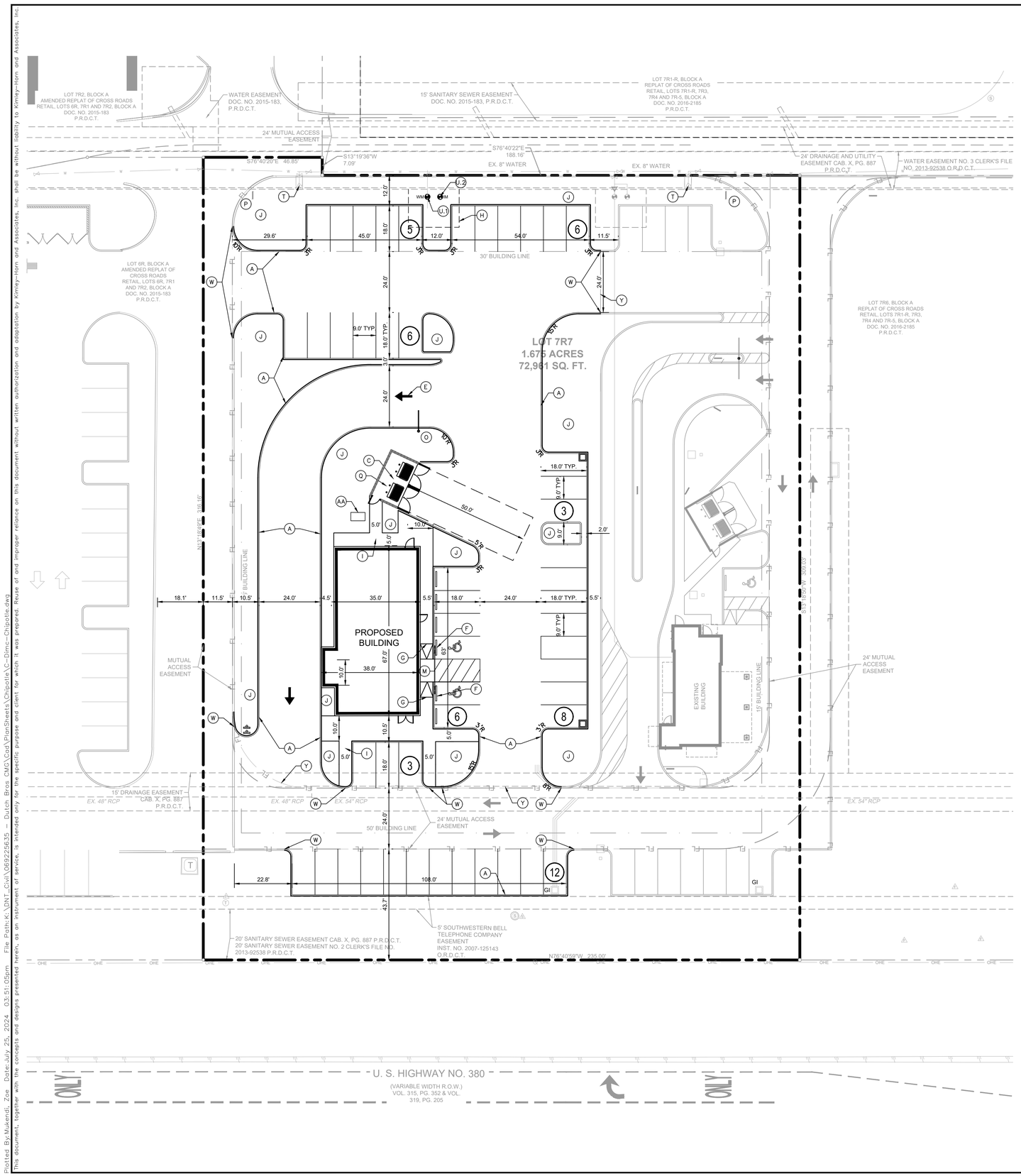
CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE
07/25/2024

PROJECT NO.
069225635

SHEET NUMBER
C-4.0

Plotted By:Mukendi, Zoe Date:July 25, 2024 03:50:46pm File Path:K:\DNT_Civil\069225635 — Dutch Bros CMO\Cad\PlanSheets\Chipotle\C-Demo-Chipotle.dwg
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SITE KEYNOTES

A	TYPE "A" CURB & GUTTER. SEE DETAIL SHEET.
C	RECYCLING/TRASH DUMPSTER LOCATION. REFER TO ARCHITECTURAL PLANS FOR DETAILS OF SCREENING, GATES, BOLLARDS AND MASONRY.
D	MENU BOARD. REFERENCE SHEET C5.2 - STRIPING AND SIGNAGE PLAN FOR TYPE.
E	DIRECTIONAL PAVEMENT MARKING. REFERENCE SHEET C5.2 - STRIPING AND SIGNAGE PLAN.
F	WHEEL STOPS. SEE DETAIL SHEET.
G	BARRIER FREE RAMP. SEE CONSTRUCTION DETAILS.
H	PROP. WATER 15' X 20' EASEMENT
I	CONCRETE SIDEWALK. SEE DETAIL SHEET.
J	LANDSCAPE AREA. REFERENCE LANDSCAPE PLANS.
K	SITE LIGHTING. REFER TO ARCHITECTURAL PLANS FOR DETAIL.
L	ACCESSIBLE PARKING SIGN WITH SIGN POST IN BOLLARD. SIGN TO BE LOCATED IN CURB. REFERENCE SHEET C5.2 - STRIPING AND SIGNAGE PLAN.
M	VAN ACCESSIBLE PARKING SIGN WITH SIGN POST IN BOLLARD. SIGN TO BE LOCATED IN CURB. REFERENCE SHEET C5.2 - STRIPING AND SIGNAGE PLAN.
O	DRIVE THRU ORDER BOARD, PRE-ORDER BOARD OR HEIGHT DETECTOR. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
P	STOP SIGN OR EXIT ONLY. REFER TO ARCHITECTURAL PLANS FOR DETAILS
Q	TRASH PAD. REFER TO ARCHITECTURAL SITE DETAILS.
R	PAVEMENT STRIPING. REFERENCE SHEET C5.2 - STRIPING AND SIGNAGE PLAN.
T	EXISTING FIRE HYDRANT. REFER TO SHEET C7.0 - UTILITY PLAN.
U.1	PROPOSED DOMESTIC WATER METER. REFER TO SHEET C7.0 - UTILITY PLAN.
U.2	PROPOSED IRRIGATION WATER METER. REFER TO SHEET C7.0 - UTILITY PLAN.
W	TIE PROPOSED CURB & GUTTER TO EXISITNG CURB & GUTTER WITH SMOOTH, CONTINUOUS TRANSITION.
X	PROPOSED BOLLARD.
Y	CONNECT TO EXISTING HEADER
Z	BOLLARD IN CURB. REFER TO ARCHITECUTRAL PLANS FOR DETAILS.
AA	PROPOSED GREASE TRAP. REFER TO ARCH/MEP PLANS FOR DETAILS.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

LEGEND

- PROPERTY LINE
- SETBACK LINE
- PROPOSED EASEMENT
- FL — EXISTING FIRE LANE
- OHP — EXISTING OVERHEAD POWER LINE
- CBL — EXISTING CABLE LINE
- GAS — EXISTING GAS LINE
- W — EXISTING WATER LINE
- SS — EXISTING SANITARY SEWER LINE
- PROPOSED FIRE HYDRANT (FH)
- PROPOSED FIRE DEPARTMENT CONNECTION (FDC)
- BARRIER FREE RAMP (BFR)
- T — PROPOSED TRANSFORMER LOCATION
- (10) — NUMBER OF PARKING SPACES PER ROW
- EXISTING POWER POLE
- EXISTING LIGHT POLE
- EXISTING FIRE HYDRANT
- (D) — EXISTING STORM MANHOLE
- (S) — EXISTING SAN. SWR. MANHOLE
- EXISTING SIGN

SITE NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL/MEP PLANS FOR SITE LIGHTING & ELECTRICAL PLAN.
3. REFERENCE ARCHITECTURAL PLANS FOR DUMPSTER ENCLOSURE DETAILS.
4. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COSTS SHALL BE INCLUDED IN BASE BID. REFERENCE DEMOLITION PLAN.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COSTS SHALL BE INCLUDED IN BASE BID.
6. SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION TAKEN FROM A SURVEY BY KIMLEY-HORN AND ASSOCIATES, INC. DATED FEBRUARY 2022.
7. TOTAL LAND AREA IS 1.675 ACRES.
8. ALL PROPOSED PAVING IN CITY R.O.W. AND EASEMENTS TO CONFORM TO TOWN OF CROSS ROADS STANDARDS.
9. CONTRACTOR SHALL ADJUST EXISTING VALVES, MANHOLE RIMS, ETC. AS NECESSARY TO MATCH FINISHED GRADE.
10. REFERENCE LANDSCAPE PLANS FOR PROPOSED BUFFERS, SCREENING, AND PLANTING.
11. PER FEMA MAP NUMBER 48232C0405GK DATED APRIL 18, 2014, THIS SITE IS NOT WITHIN A FLOODPLAIN.

BENCHMARKS

BM#301 "X" SET ON TOP OF THE NORTHEAST CORNER OF A TRANSFORMER PAD CORNER LOCATED 80' NORTH OF THE NORTH CURB LINE OF HIGHWAY 380, AND 2,100' EAST OF MAYLOR ROAD. ELEV = 593.38'

BM#204 "X" SET ON THE NORTH SIDE OF A CONCRETE DRIVE, 370' NORTH OF THE NORTH EDGE OF HIGHWAY 380, AND 385' EAST OF THE CENTER OF A DIVIDED CONCRETE DRIVE POSTED AS "WALMART DRIVE". ELEV = 592.91'

Know what's **below.**
Call before you dig.

CAUTION!!
THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION . IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE. CALL 811 AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN VICINITY.

No.	REVISIONS	DATE

Kimley»Horn

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PHONE: 940.287.3020
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

REGISTERED PROFESSIONAL ENGINEER
MARK M. MAKENDI
140082
LICENSED
07/25/2024

SCALE	AS SHOWN
DESIGNED BY	MMM
DRAWN BY	CBM
CHECKED BY	MMM

DIMENSION CONTROL PLAN

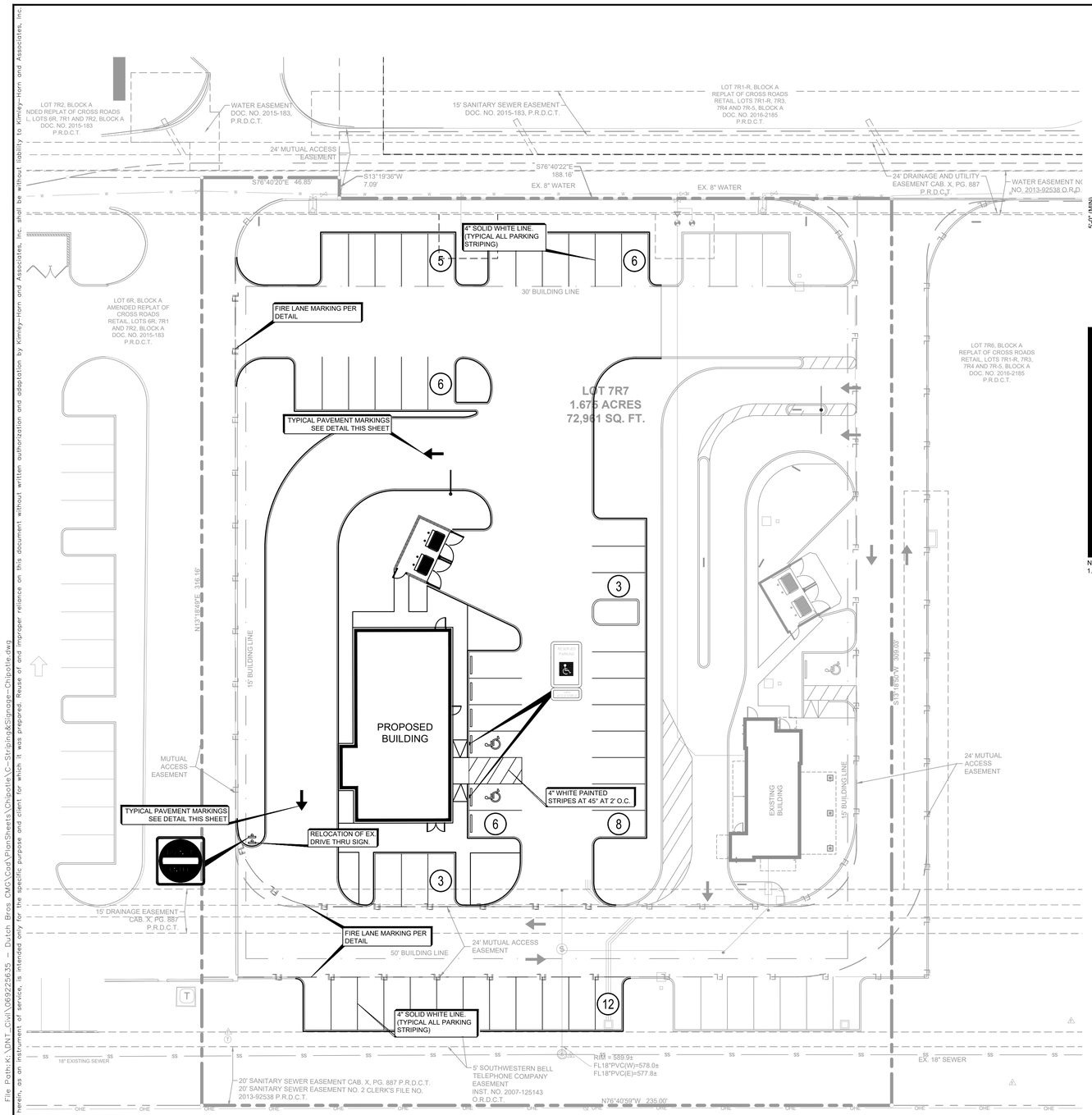
CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

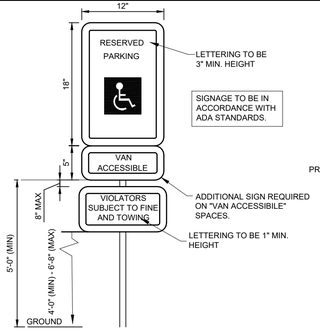
DATE
07/25/2024

PROJECT NO.
069225635

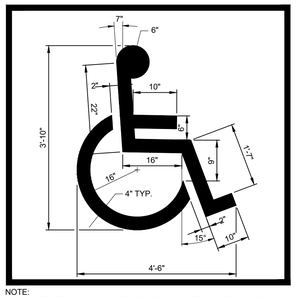
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C-5.1

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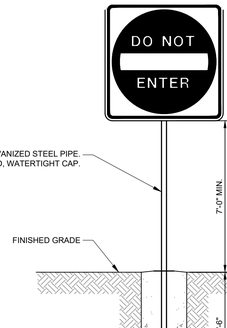


ADA SIGN DETAIL
(TO BE INSTALLED W/ 6" BOLLARD)
N.T.S.



NOTE:
1. ALL TRAFFIC MARKINGS TO BE YELLOW LATEX AS PER DIMENSIONS SHOWN.

HANDICAPPED PARKING SYMBOL DETAIL
N.T.S.



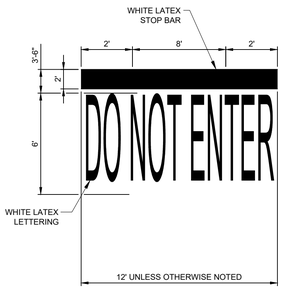
SIGN POST DETAIL
N.T.S.

GRAPHIC SCALE IN FEET
0 10 20 40

NORTH

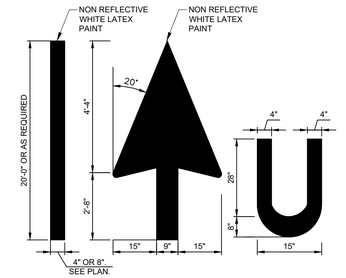
SITE LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- PROPOSED CONCRETE CURB
- EXISTING CURB



NOTE:
1. ALL TRAFFIC MARKINGS TO BE WHITE LATEX AS PER DIMENSIONS SHOWN.

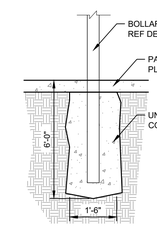
STOP BAR DETAIL
N.T.S.



TYPICAL PAVEMENT STRIPING | TRAFFIC ARROW | TYPICAL LETTER

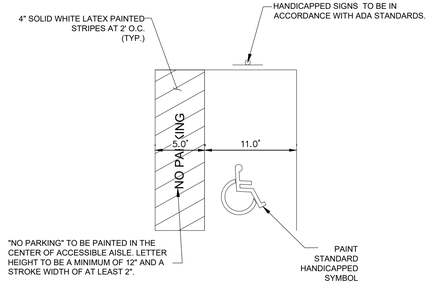
NOTE:
PAINT SHALL BE APPLIED AT A THICKNESS OF 22 WET MILS AND 15 DRY MILS.

TYPICAL PAVEMENT MARKINGS
N.T.S.



NOTES
1. CAST-IN-PLACE CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
2. ALL REINFORCING SHALL MEET ASTM A615, GRADE 60, BAR LAP, DETAILS AND SUPPORTS SHALL BE IN ACCORDANCE WITH ACI DETAILING MANUAL AND BUILDING CODE.

TYPICAL BOLLARD FOOTING DETAIL
SCALE: NTS



NOTES:
1. DIMENSIONS MAY VARY REFER TO SITE GEOMETRICS PLAN.
2. SIGNAGE AND MARKINGS TO BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

ACCESSIBLE PARKING DETAIL
N.T.S.



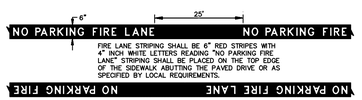
STANDARD 30X30 RED STOP SIGN "J" 30"x30" | STANDARD RED AND WHITE LATEX SIGN R5-1 30"x30" | "E1" 18"x24" | "E2" 18"x24" | "R3-5R" 24"x30"

STANDARD PARKING LOT SIGNS
N.T.S.

BENCHMARKS

BM#301 "X" SET ON TOP OF THE NORTHEAST CORNER OF A TRANSFORMER PAD CORNER LOCATED 80' NORTH OF THE NORTH CURB LINE OF HIGHWAY 380, AND 2,100' EAST OF MAYLOR ROAD. ELEV = 593.38'

BM#204 "X" SET ON THE NORTH SIDE OF A CONCRETE DRIVE, 370' NORTH OF THE NORTH EDGE OF HIGHWAY 380, AND 385' EAST OF THE CENTER OF A DIVIDED CONCRETE DRIVE POSTED AS "WALMART DRIVE", ELEV = 592.91'



FIRE LANE STRIPING SHALL BE 6" RED STRIPES WITH 4" INCH WHITE LETTERS READING "NO PARKING FIRE LANE". STRIPING SHALL BE PLACED ON THE TOP EDGE OF THE SIDEWALK ABUTTING THE PAVED DRIVE OR AS SPECIFIED BY LOCAL REQUIREMENTS.

FIRE LANE MARKING
N.T.S.

811 Know what's below. Call before you dig.

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PHONE: 940.287.3020
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

STATE OF TEXAS
MARK M. MAYFIELD
140083
LICENSED PROFESSIONAL ENGINEER
07/25/2024

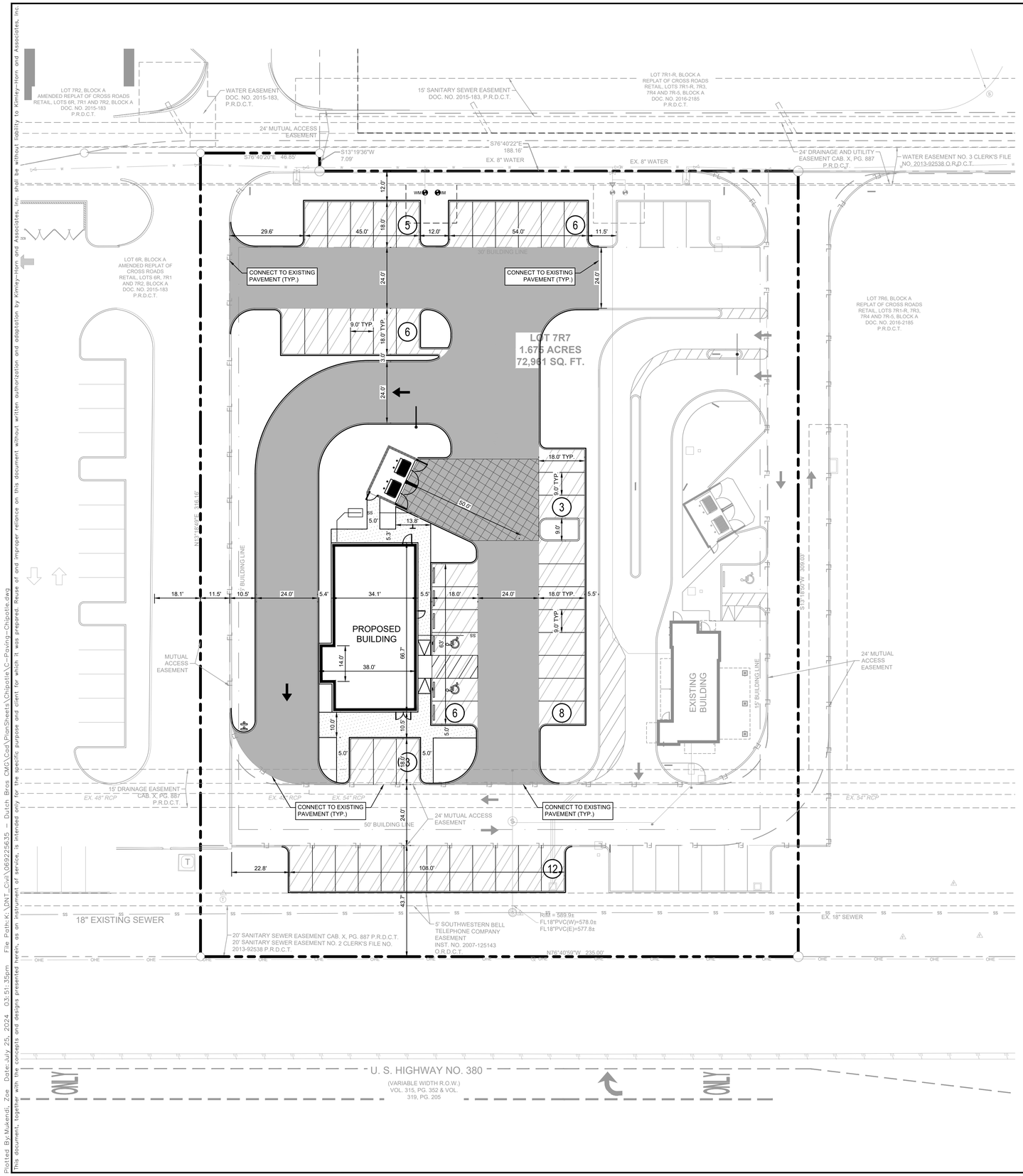
SCALE: AS SHOWN
DESIGNED BY MMM
DRAWN BY CBM
CHECKED BY MMM

STRIPING AND SIGNAGE PLAN

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS
TEXAS

DATE 07/25/2024
PROJECT NO. 069225635
SHEET NUMBER C-5.2

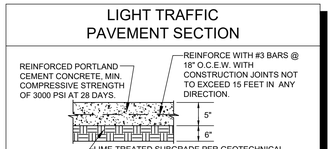
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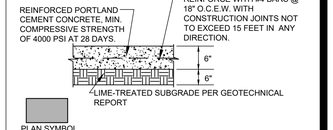
PAVING NOTES

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2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COSTS SHALL BE INCLUDED IN BASE BID.
3. ALL PROPOSED PAVING IN CITY R.O.W. TO CONFORM TO TOWN OF CROSSROADS STANDARDS.
4. CONTRACTOR SHALL ADJUST EXISTING VALVES, MANHOLE RIMS, ETC. AS NECESSARY TO MATCH FINISHED GRADE.
5. CONTRACTOR TO EXTEND ALL PAVING JOINTS THROUGH CURBS. JOINTS SHALL BE PERPENDICULAR TO CURBS.
6. EXPANSION JOINTS SHALL BE PLACE BETWEEN BUILDING AND CURB.
7. CONCRETE SHALL FOLLOW THE SPECIFICATIONS OF THE GEOTECHNICAL REPORT.
8. MAXIMUM CONTROL JOINT SPACING SHALL NOT EXCEED 10' FOR STANDARD DUTY CONCRETE, 12' FOR MEDIUM DUTY, AND 14' FOR HEAVY DUTY CONCRETE.
9. EXPANSION JOINTS SHOULD BE USED WHEREVER THE PAVEMENT WILL ABUT A STRUCTURAL ELEMENT, E.G. (LIGHT POLES, RETAINING WALLS, EXISTING PAVEMENT, BUILDING WALLS OR MANHOLES) AND SEALED WITH POLYURETHANE SEALANT.
10. EXPANSION JOINTS SHALL BE SPACED 60' MAX AND SEALED TO MINIMIZE MOISTURE INFILTRATION.
11. SAW-CUT CONTROL JOINTS WITHIN 12 HOURS OF POUR.
12. EXPANSION AND CONSTRUCTION JOINTS SHOULD HAVE 24" LONG NO. 3 DOWEL BARS SPACED 18" ON CENTER.
13. REFER TO SITE LIGHTING/ ELECTRICAL PLAN FOR LOCATION OF CONDUIT FOR SITE LIGHTING.
14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT PERMANENT PAVEMENT IS NOT PLACED UNTIL ALL REQUIRED CONDUITS AND SLEEVING FOR IRRIGATION, UTILITIES, LIGHTING, ETC HAS BEEN PROPERLY INSTALLED.
15. ALL EARTHWORK, PAVING, AND JOINTING SHALL CONFORM TO THE GEOTECH REPORT.
16. REFER TO SITE LIGHTING AND ELECTRICAL PLANS FOR CONDUIT LOCATION FOR SITE LIGHTING.
17. REFER TO IRRIGATION PLAN FOR EXACT IRRIGATION SLEEVE LOCATIONS.
18. CONDUIT FOR COMMUNICATIONS TO SITE SIGNAGE SHALL BE INSTALLED WITH BENDS THAT ARE NO LESS THAN 45° ANGLED. IF A 90° BEND IS REQUIRED, A SWEEPING BEND SHOULD BE INSTALLED.

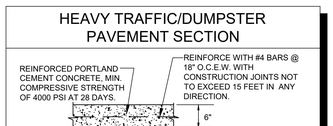
LIGHT TRAFFIC PAVEMENT SECTION



HEAVY TRAFFIC/FIRE LANE PAVEMENT SECTION



HEAVY TRAFFIC/DUMPSTER PAVEMENT SECTION



BENCHMARKS

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NORTH

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0 10 20 40

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- PROPOSED CONCRETE CURB
- EXISTING CURB
- FL — EXISTING FIRE LANE & MUTUAL ACCESS EASEMENT
- (3) PROPOSED PARKING COUNT
- PROPOSED WATER METER
- EXISTING FIRE HYDRANT
- 5" LIGHT TRAFFIC PAVEMENT SECTION. REFERENCE CONSTRUCTION DETAILS
- 6" HEAVY TRAFFIC/FIRE LANE PAVEMENT SECTION. REFERENCE CONSTRUCTION DETAILS
- 6" HEAVY TRAFFIC/DUMPSTER PAVEMENT SECTION. REFERENCE CONSTRUCTION DETAILS
- 4" STANDARD DUTY CONCRETE FOR SIDEWALKS. REFERENCE CONSTRUCTION DETAILS

Know what's **below.** **Call** before you dig.

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PHONE: 940.287.3020
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

LICENSED PROFESSIONAL ENGINEER
MARK M. MAYLOR
140083
07/25/2024

SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
AS SHOWN	MMM	CBM	MMM

PAVING PLAN

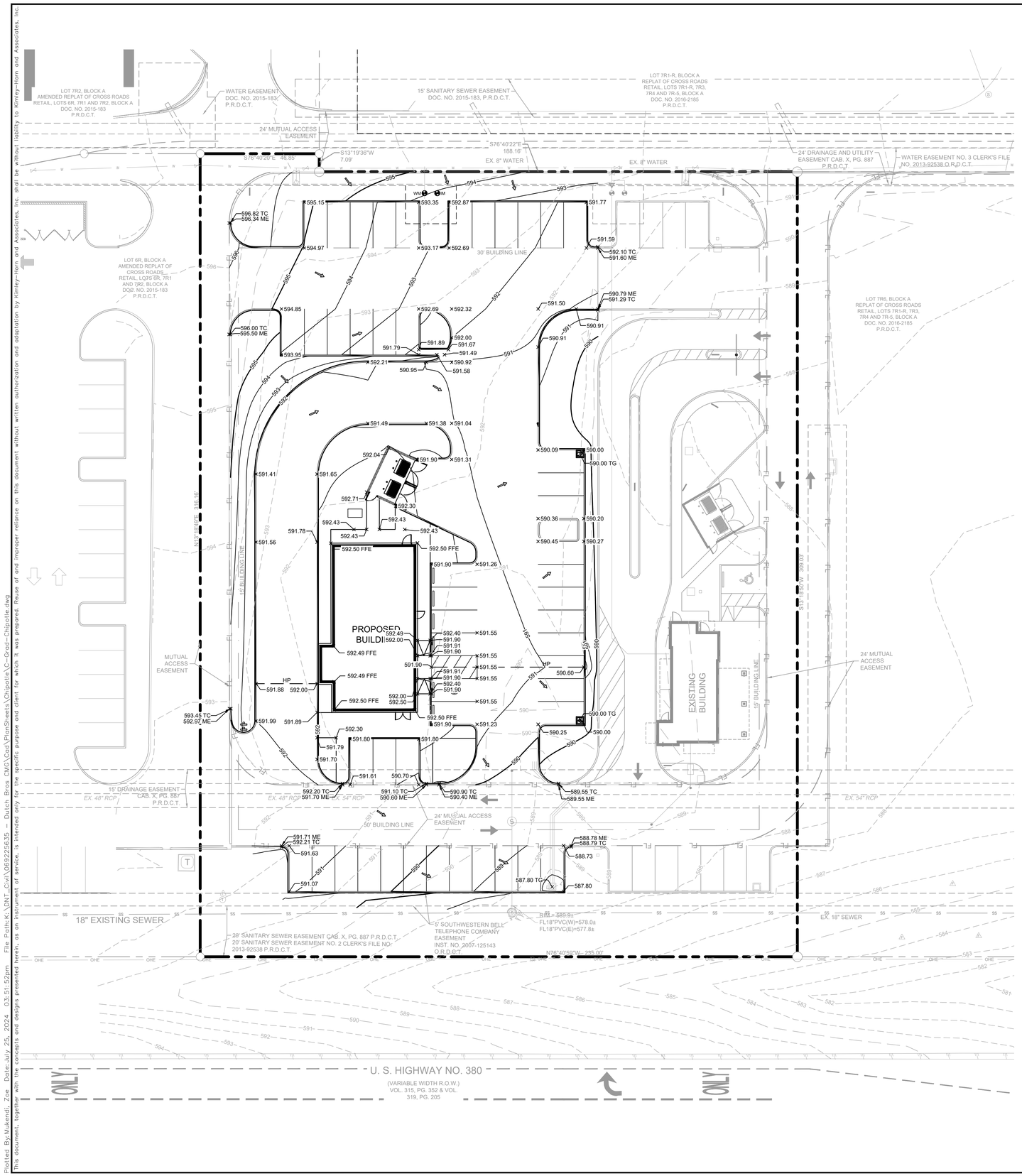
CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE 07/25/2024

PROJECT NO. 069225635

SHEET NUMBER C-5.3

Plotted By:Mukendi, Zoe Date:July 25, 2024 03:51:35pm File Path:K:\DNT_Civil\069225635 – Dutch Bros CMO\Cad\PlanSheets\Chipotle\C-Paving-Chipotle.dwg
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GRADING NOTES

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS AND THE TOWN/AHJ STANDARDS AND SPECIFICATIONS.
2. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
3. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. MINOR ADJUSTMENTS TO FINISH GRADE TO ACCOMPLISH SPOT DRAINAGE ARE ACCEPTABLE, IF NECESSARY, UPON PRIOR APPROVAL OF ENGINEER. PAVING INSTALLED SHALL "FLUSH OUT" AT ANY JUNCTURE WITH EXISTING PAVING.
4. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
5. ALL CUT OR FILL SLOPES SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
7. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
8. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
9. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING FOOTPRINT DIMENSIONS.
10. CONTRACTOR SHALL REFER TO FINAL GEOTECH REPORT FOR BUILDING SUBGRADE AND SITE PREPARATION REQUIREMENTS.
11. CONTRACTOR SHALL ADJUST EXISTING VALVES, MANHOLE RIMS, ETC. AS NECESSARY TO MATCH FINISHED GRADE.
12. ALL ELEVATIONS ARE TOP OF PAVEMENT UNLESS NOTED OTHERWISE. TO GET TOP OF CURB ELEVATIONS ADD 6" TO THE ELEVATION SHOWN.
13. GRADING FOR ALL SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS SHALL CONFORM TO ADA STANDARDS. SLOPES SHALL NOT EXCEED 5% LONGITUDINAL SLOPE OR 2% CROSS SLOPE. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET AT ANY LOCATION.
14. ANY PROPOSED CONTOURS SHOWN ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES.
15. REFER TO EROSION CONTROL PLAN FOR EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING GRADING OPERATIONS.
16. ALL FILL TO BE PLACED SHALL BE IN ACCORDANCE WITH THE CURRENT APPLICABLE GEOTECHNICAL REPORT RECOMMENDATIONS.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

LEGEND

	PROPERTY LINE
475	PROPOSED CONTOUR
475	EXISTING CONTOUR
< <	PROPOSED VALLEY
	PROPOSED RIDGE
X 500.00	PROPOSED SPOT ELEVATION
TC	PROPOSED TOP OF CURB ELEVATION
TP	PROPOSED TOP OF PAVEMENT ELEVATION

GRADING NOTES

1. TOP OF WALL AND BOTTOM OF WALL GRADE SPOT SHOTS ARE FOR GRADING PURPOSES ONLY. CONTRACTOR TO PROVIDE COMPLETE DESIGN FOR RETAINING WALLS. DESIGN SHALL BE SUBMITTED TO ENGINEER AND OWNER FOR REVIEW.
2. SPOT ELEVATIONS ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR SUBGRADE PREPARATIONS SPECIFICATIONS FOR ALL PROPOSED BUILDINGS.
4. ALL FILL MATERIAL SHALL BE COMPACTED PER GEOTECH RECOMMENDATION. REFER TO PAVING SECTION DETAILS FOR SUBGRADE PREPARATION REQUIREMENTS UNDER ALL PAVED AREAS. (REFER TO GEOTECH REPORT)
5. CONTRACTOR SHALL VERIFY ALL SIDEWALKS HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% AND A MAXIMUM CROSS SLOPE OF 2%. IF THE CONTRACTOR IDENTIFIES SLOPES GREATER, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO CONSTRUCTION.
6. SPOT ELEVATIONS IDENTIFIED AS "MATCH EXISTING" SHALL BE FIELD VERIFIED. CONTRACTOR SHALL NOTIFY CIVIL ENGINEERING CONSULTANT (CEC) OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH GRADING ACTIVITIES.

BENCHMARKS

BM#301 "X" SET ON TOP OF THE NORTHEAST CORNER OF A TRANSFORMER PAD CORNER LOCATED 80' NORTH OF THE NORTH CURB LINE OF HIGHWAY 380, AND 2,100' EAST OF MAYLOR ROAD. ELEV = 593.38'

BM#204 "X" SET ON THE NORTH SIDE OF A CONCRETE DRIVE, 370' NORTH OF THE NORTH EDGE OF HIGHWAY 380, AND 385' EAST OF THE CENTER OF A DIVIDED CONCRETE DRIVE POSTED AS "WALMART DRIVE". ELEV = 592.91'

Know what's **below.** **Call** before you dig.

CAUTION!!!
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No.	REVISIONS	DATE

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TEXAS REGISTERED ENGINEERING FIRM F-928

STATE OF TEXAS
MARK M. MCCULLOUGH
140083
LICENSED PROFESSIONAL ENGINEER
07/25/2024

SCALE AS SHOWN
DESIGNED BY MMM
DRAWN BY CBM
CHECKED BY MMM

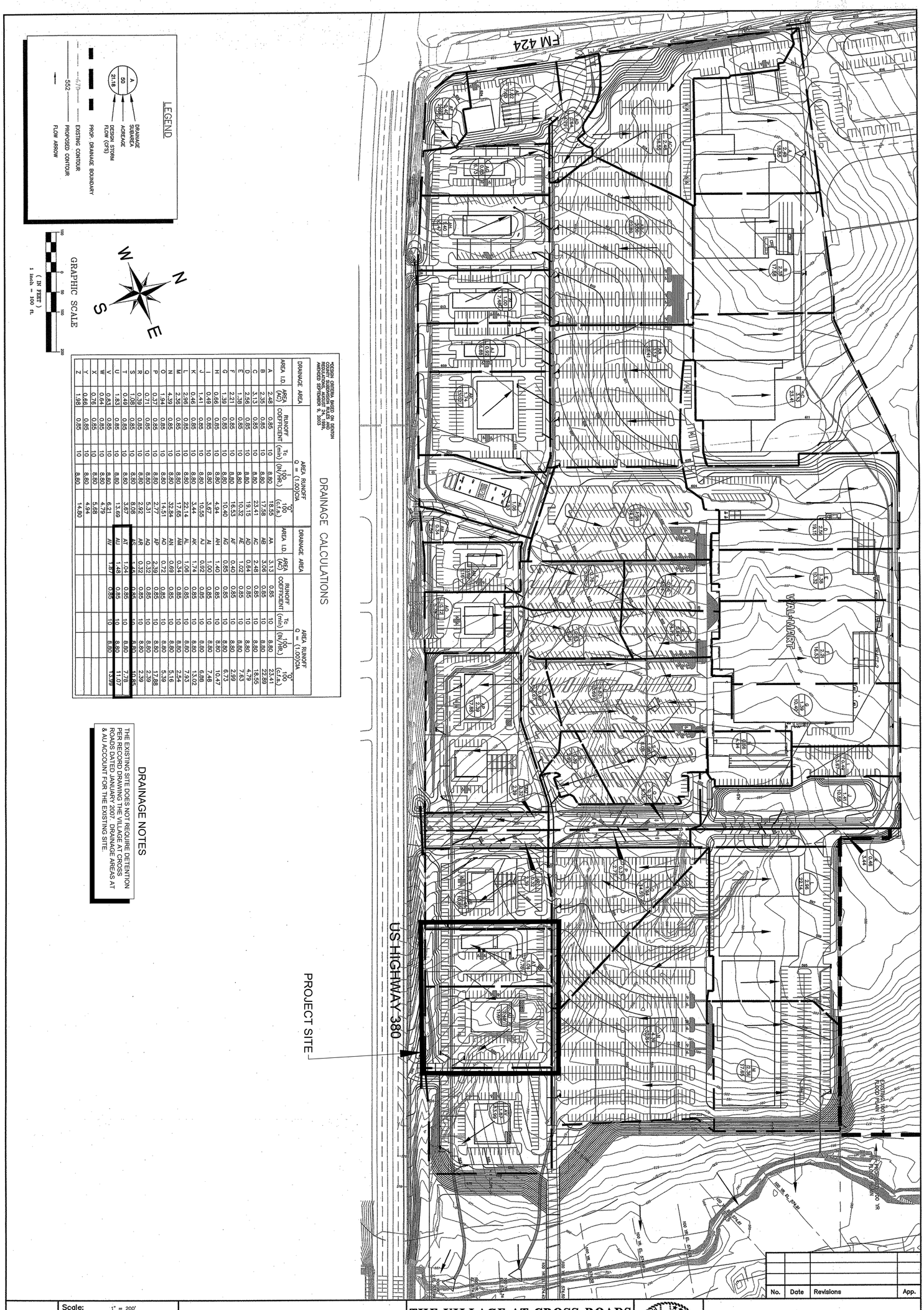
GRADING PLAN

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE 07/25/2024
PROJECT NO. 069225635
SHEET NUMBER C-6.0

Plotted By:Mukendi, Zoe Date:July 25, 2024 03:51:52pm File Path:K:\DNT_Civil\069225635 - Dutch Bros CMO\Cad\PlanSheets\Chipotle\C-Grad-Chipotle.dwg
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DRAINAGE CALCULATIONS

RESIDENTIAL CRITERIA MANUAL FOR DENTON COUNTY SUBDIVISION RULES AND REGULATIONS AMENDED SEPTEMBER 9, 2003

DRAINAGE AREA		RUNOFF COEFFICIENT	Tc (min)	AREA RUNOFF Q = (1.00)CIA 100 (cfs)	DRAINAGE AREA		RUNOFF COEFFICIENT	Tc (min)	AREA RUNOFF Q = (1.00)CIA 100 (cfs)	DRAINAGE AREA		RUNOFF COEFFICIENT	Tc (min)	AREA RUNOFF Q = (1.00)CIA 100 (cfs)
AREA I.D.	AREA (AC)				AREA I.D.	AREA (AC)				AREA I.D.	AREA (AC)			
A	2.48	0.85	10	18.55	AA	3.13	0.85	10	23.41	AU	1.48	0.85	10	11.07
B	2.35	0.85	10	17.58	AB	2.48	0.85	10	18.55	AV	1.87	0.85	10	13.99
C	3.13	0.85	10	23.41	AC	0.64	0.85	10	4.79					
D	2.48	0.85	10	18.55	AD	1.02	0.85	10	7.63					
E	1.38	0.85	10	10.32	AE	1.02	0.85	10	7.63					
F	2.21	0.85	10	16.53	AF	0.40	0.85	10	2.99					
G	1.39	0.85	10	10.40	AG	0.85	0.85	10	6.36					
H	0.69	0.85	10	5.16	AH	1.00	0.85	10	7.48					
J	1.41	0.85	10	10.55	AJ	0.92	0.85	10	6.88					
K	0.46	0.85	10	3.44	AK	1.74	0.85	10	13.02					
L	2.96	0.85	10	22.14	AL	1.06	0.85	10	7.93					
M	4.35	0.85	10	32.54	AM	0.88	0.85	10	5.16					
N	4.35	0.85	10	32.54	AN	0.88	0.85	10	5.16					
O	1.94	0.85	10	14.51	AO	0.72	0.85	10	5.39					
P	0.37	0.85	10	2.77	AP	2.39	0.85	10	17.88					
Q	0.71	0.85	10	5.31	AQ	0.32	0.85	10	2.39					
R	0.71	0.85	10	5.31	AR	0.32	0.85	10	2.39					
S	1.08	0.85	10	8.08	AS	0.48	0.85	10	3.59					
T	0.49	0.85	10	3.67	AT	1.04	0.85	10	7.78					
U	1.83	0.85	10	13.69	AU	1.48	0.85	10	11.07					
V	0.83	0.85	10	6.21	AV	1.87	0.85	10	13.99					
W	0.76	0.85	10	5.68										
X	0.76	0.85	10	5.68										
Y	0.66	0.85	10	4.94										
Z	1.98	0.85	10	14.80										

DRAINAGE NOTES

THE EXISTING SITE DOES NOT REQUIRE DETENTION PER RECORD DRAWING THE VILLAGE AT CROSS ROADS (DRAINAGE AREA AU & AV). DRAINAGE AREAS AT & AU ACCOUNT FOR THE EXISTING SITE.

No.	Date	Revisions	App.

Scale:	1" = 200'
Designed by:	-
Drawn by:	KHA
Checked by:	KHA
Date:	JANUARY 2007
Project No.	064012000

SHEET C-9

DRAINAGE AREA MAP

THE VILLAGE AT CROSS ROADS
NEC OF U.S. 380 AND F.M. 424
CROSS ROADS, TEXAS

MATT MOORE 85813 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS

Kimley-Horn and Associates, Inc.
12700 Park Central Drive, Suite 1800
Dallas, Texas 75251
Tel. No. (972) 770-1300
Fax No. (972) 239-3820

dan.cabaltera – 1/24/2007 3:39pm
File: G:\DWL\064012000\200DAM-commercial.dwg – [Large Comm]
Xrefs: skarney ebrten base xtop xtb X2430 xconture X2430old sys4-commercial XSTM-commercial xsite-commercial

C-6.1 SHEET NUMBER

DATE 07/25/2024
PROJECT NO. 069225635

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

EXISTING DRAINAGE AREA MAP

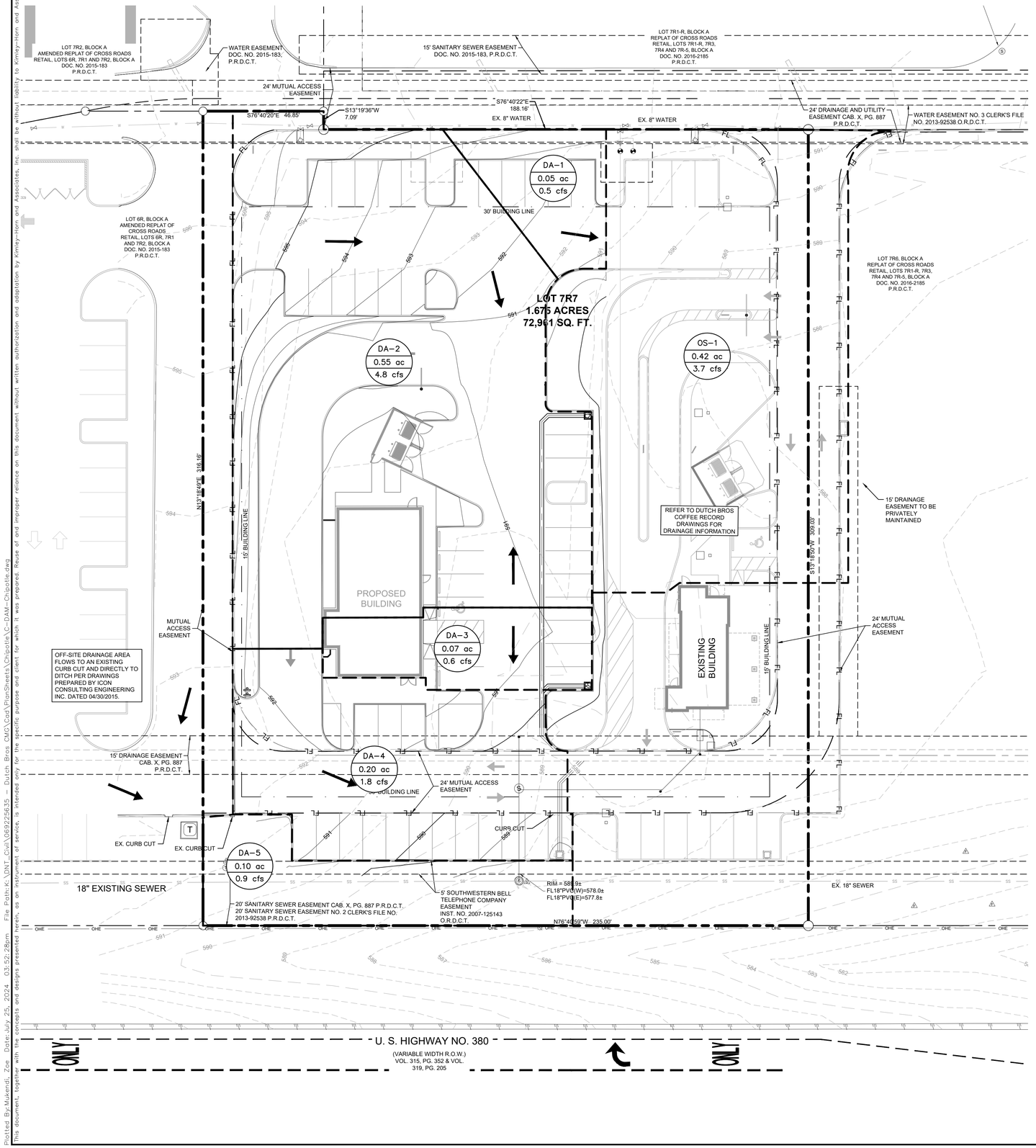
SCALE	AS SHOWN
DESIGNED BY	MMM
DRAWN BY	CBM
CHECKED BY	MMM

MATT MOORE 85813 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS 07/25/2024

Kimley»Horn

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PHONE: 940-287-3620
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

No.	REVISIONS	DATE



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NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

LEGEND

BASIN / AREA / FLOW
BASIN NAME
ACRES
100 YR FLOW (CFS)
DRAINAGE AREA
FLOW ARROW
425 PROPOSED CONTOUR
425 EXISTING CONTOUR
PROPOSED STORM SEWER LINE
SS EXISTING SANITARY SEWER LINE
W EXISTING WATER LINE
PROPERTY LINE
EXISTING STORM LINE

DRAINAGE NARRATIVE:

ALL PROPOSED DRAINAGE AREAS WILL BE ROUTED TO EXISTING STORM IN PLACE. DA1-DA5 WILL BE ROUTED TO EXISTING STORM AS INSTALLED AND INDICATED ON THE VILLAGE AT CROSS ROADS RECORD DRAWINGS DATED 01/25/2007.

DRAINAGE AREA DA-5 WILL BE ROUTED TO THE EXISTING DITCH RUNNING ALONG THE SITE.

ALL PROPOSED DRAINAGE AREAS WILL NOT ADVERSELY AFFECT THE DOWNSTREAM PEAK FLOW AS ACCORDING TO THE VILLAGE AT CROSS ROADS PLAN PREPARED BY KIMLEY-HORN IN 2007.

DRAINAGE AREA MAP NOTES:

1. DRAINAGE CRITERIA FOR THIS DRAINAGE AREA MAP IS BASED ON SURVEY AND CITY DRAINAGE REQUIREMENTS.

	PROPOSED ON-SITE
TC =	10 MIN
C =	0.95
I100 =	9.24 IN/HR
A =	DRAINAGE AREA (ACRES)
Q100 =	C*I100*A (CFS)

DRAINAGE AREA TABLE

DRAINAGE AREA NO.	AREA (ac)	RUNOFF COEFFICIENT "C"	TIME OF CONCENTRATION (minutes)	RAINFALL INTENSITY "I"100 (in/hr)	TOTAL FLOW Q100 (cfs)	COLLECTION POINT
DA-1	0.05	0.95	10	9.24	0.5	EX. CURB INLET. REFER TO DUTCH BROS COFFEE PLANS
DA-2	0.55	0.95	10	9.24	4.8	PROP. 3'X3' GRATE INLET
DA-3	0.07	0.95	10	9.24	0.6	PROP. 3'X3' GRATE INLET
DA-4	0.20	0.95	10	9.24	1.8	PROP. 3'X3' GRATE INLET
DA-5	0.10	0.95	10	9.24	0.9	EX. DITCH
OS-1	0.42	0.95	10	9.24	3.7	EX. CURB INLET. REFER TO DUTCH BROS COFFEE PLANS

BENCHMARKS

BM#301 "X" SET ON TOP OF THE NORTHEAST CORNER OF A TRANSFORMER PAD CORNER LOCATED 80' NORTH OF THE NORTH CURB LINE OF HIGHWAY 380, AND 2,100' EAST OF MAYLOR ROAD. ELEV = 593.38'

BM#204 "X" SET ON THE NORTH SIDE OF A CONCRETE DRIVE, 370' NORTH OF THE NORTH EDGE OF HIGHWAY 380, AND 385' EAST OF THE CENTER OF A DIVIDED CONCRETE DRIVE POSTED AS "WALMART DRIVE". ELEV = 592.91'

Know what's below. Call before you dig.

CAUTION!!
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No.	REVISIONS	DATE

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WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

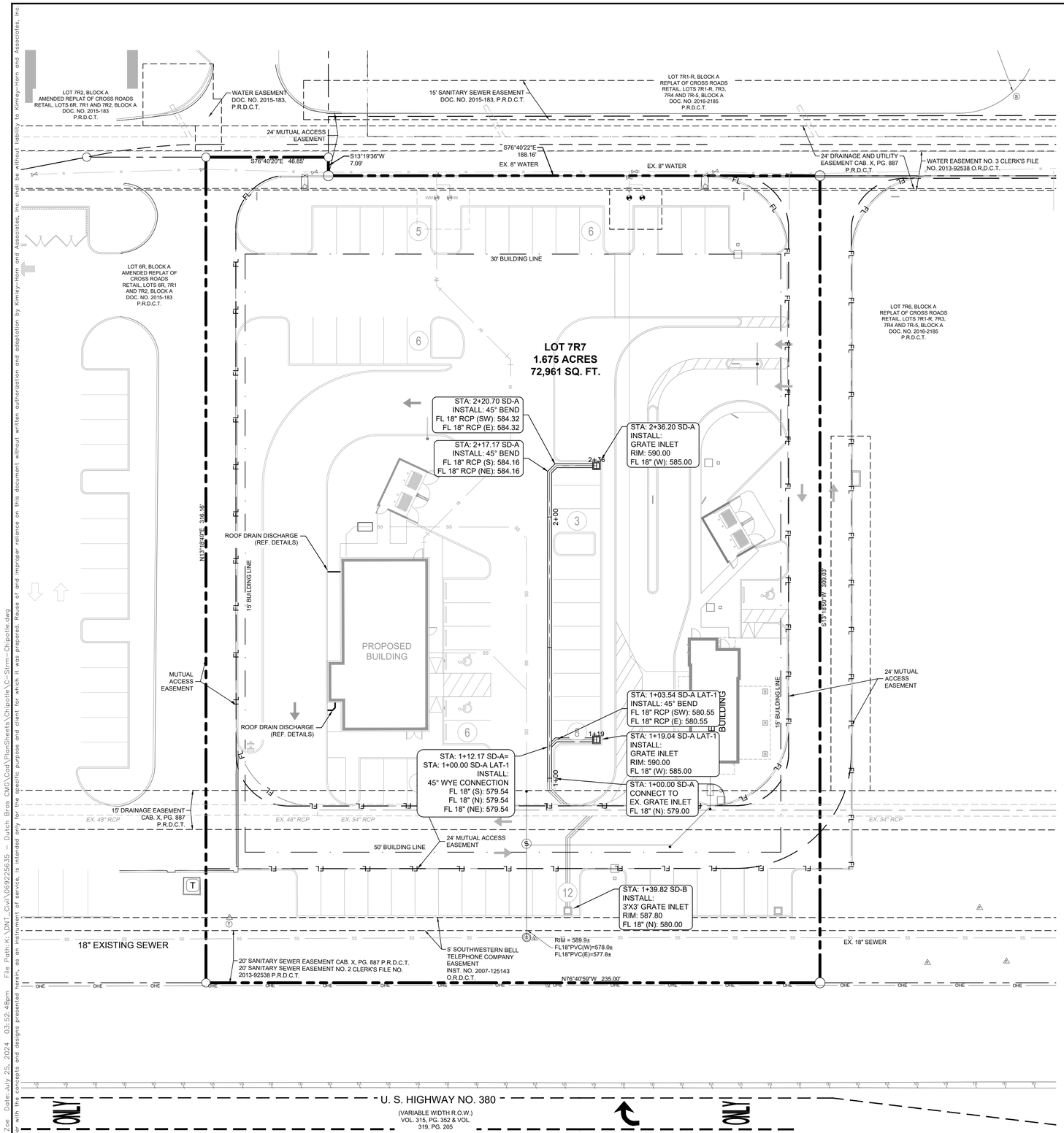
REGISTERED PROFESSIONAL ENGINEER
MUKENDI MUTOMBO
140083
LICENSED
07/25/2024

SCALE AS SHOWN
DESIGNED BY MMM
DRAWN BY CBM
CHECKED BY MMM

PROPOSED DRAINAGE AREA MAP

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE 07/25/2024
PROJECT NO. 069225635
SHEET NUMBER C-6.2



NORTH

GRAPHIC SCALE IN FEET

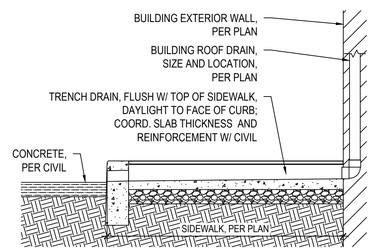
0 10 20 40

LEGEND

- PROPERTY LINE
- PROPOSED STORM LINE
- EXISTING STORM LINE
- OHP — EXISTING OVERHEAD ELECTRIC
- W — EXISTING WATER LINE
- SS — EXISTING SEWER LINE

STORM DRAINAGE NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
2. CONTRACTOR SHALL FIELD VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES IN FIELD PRIOR TO COMMENCING CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
3. STORM PIPE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
   A) RCP - ASTM C76 CLASS III - REQUIRED IN PUBLIC RIGHT OF WAY AND AT CONNECTION POINTS TO PUBLIC STORM SEWER.
   B) DUCTILE IRON PIPE - ASTM A746
   C) HDPE - AASHTO M252 TYPE S , M294 TYPE S R ASTM F 2306 SMOOTH WALL
   D) PVC - ASTM D 3034 SDR35
4. ALL EXISTING AND PROPOSED PIPES AND STRUCTURES ARE TO BE CLEANED OUT AT THE COMPLETION OF CONSTRUCTION TO REMOVE ALL SILT AND DEBRIS.
5. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
6. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
7. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.



DOWNSPOUT DISCHARGE DETAILS, TYP.

N.T.S.

* REFER TO ARCH/MEP FOR DOWNSPOUT/ROOF DRAIN LOCATION DETAILS

BENCHMARKS

BM#301 "X" SET ON TOP OF THE NORTHEAST CORNER OF A TRANSFORMER PAD. CORNER LOCATED 80' NORTH OF THE NORTH CURB LINE OF HIGHWAY 380, AND 2,100' EAST OF MAYLOR ROAD. ELEV = 593.38'

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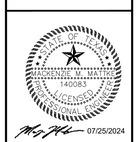
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No.	REVISIONS	DATE

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WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928



SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
AS SHOWN	MMM	CBM	MMM

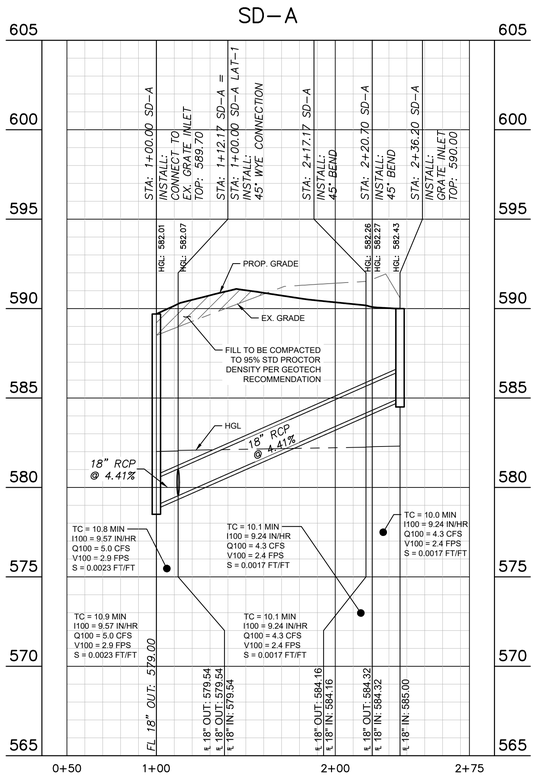
STORM PLAN

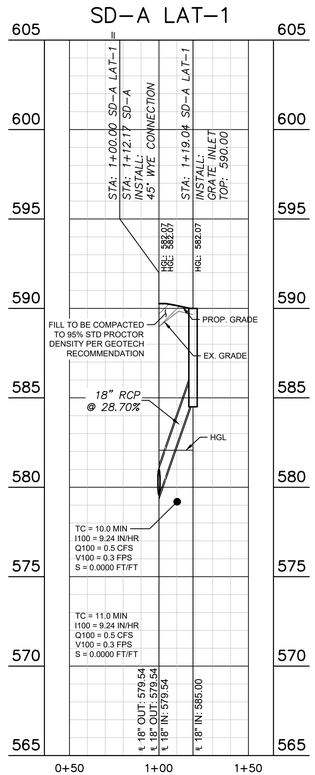
CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

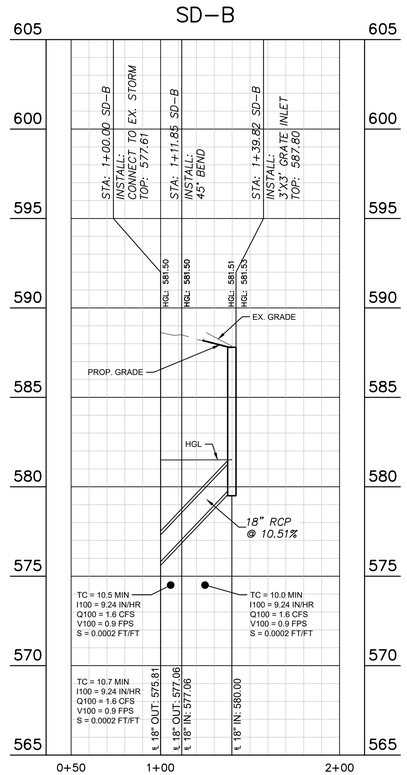
DATE
07/25/2024

PROJECT NO.
069225635

SHEET NUMBER
C-6.3







GRAPHIC SCALE IN FEET
0 20 40 80
HORZ. 1" = 40'
VERT. 1" = 4'

No.	REVISIONS	DATE

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TEXAS REGISTERED ENGINEERING FIRM F-928



SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
AS SHOWN	MMM	CBM	MMM

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STORM PROFILES

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE 07/25/2024
PROJECT NO. 069225635
SHEET NUMBER C-6.4

Plotted By:Mukendi Zoe Date:July 25, 2024 03:52:58pm File Path:K:\DNT_Civil\069225635 – Dutch Bros CMC\Civil\PlanSheets\Chipotle\C-Storm-Prof-Chipotle.dwg
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RUNOFF COLLECTION POINT INFORMATION			DRAINAGE AREA INFORMATION						Time at Up-Stream STA	Design Storm Freq-unecy	Rainfall Intensity "I"	Storm Water Runoff "Q"	Hydra-ulic Grade Slope "S"	No. of Barrels	RCP	RCB		Velocity "V"	WYE JUNCTIONS							Trunk Through Angle	Head Loss Coeffi-cient "Kj"	Velocity Head Loss at Up-stream STA	Flow Time Between STA	Flow Time at Down-stream STA	HYDRAULIC GRADIENT ELEVATIONS		TC	T/C-HG
Up-stream STA	Down-stream STA	Distance Between STA	Area ID	Interc-epted Area "A"	Frequency Factor "K"	Runoff Coeff. "C"	Incre-mental "KCA"	Accum-ulated "KCA"							Pipe Dia.	Box Span	Box Rise		Struct-ure Type	Lateral Junction Angle	Lateral Head Loss Coeff. "Kj"	Rainfall Intensity in Lateral	Flow in Lateral "Ql"	Lateral Dia.	Velocity in Lateral "Vl"						Up-stream	Down-stream		
(FT)	(FT)	(FT)		(AC)					(MIN)	(YRS)	(IN/HR)	(CFS)	(FT/FT)	(EA)	(IN)	(IN)	(FT)	(FPS)		(DEG)		(IN/HR)	(CFS)	(IN)	(FPS)	(DEG)		(FT)	(MIN)	(MIN)	(FT)	(FT)		
LINE SD-A																																582.53		
2+36.20	2+20.70	15.50	DA-2	0.55	1.00	0.95	0.52	0.52	10.0	100	9.24	4.8	0.0021	1	18	0	0	2.7	INLET	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.25	0.14	0.1	10.1	582.39	582.35	590.00	7.47
2+20.70	2+17.17	3.53					0.00	0.52	10.1	100	9.24	4.8	0.0021	1	18	0	0	2.7	BEND	N/A	N/A	N/A	N/A	N/A	N/A	45.0	0.15	0.02	0.0	10.1	582.33	582.33	590.10	7.75
2+17.17	1+12.17	105.00					0.00	0.52	10.1	100	9.24	4.8	0.0021	1	18	0	0	2.7	BEND	N/A	N/A	N/A	N/A	N/A	N/A	45.0	0.15	0.02	0.6	10.7	582.31	582.08	590.20	7.87
1+12.17	1+00.00	12.17	DA-3	0.07	1.00	0.95	0.07	0.59	10.7	100	9.57	5.6	0.0029	1	18	0	0	3.2	WYE	45.00	N/A	9.24	0.6	18.00	0.3	N/A	N/A	0.04	0.1	10.8	582.05	582.01	590.30	8.22
LINE SD-B																																581.53		
1+39.82	1+11.85	27.97	DA-4	0.20	1.00	0.95	0.19	0.19	10.0	100	9.24	1.8	0.0003	1	18	0	0	1.0	INLET	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.25	0.02	0.5	10.5	581.51	581.51	588.10	6.57
1+11.85	1+00.00	11.85				0.95	0.00	0.19	10.5	100	9.24	1.8	0.0003	1	18	0	0	1.0	BEND	N/A	N/A	N/A	N/A	N/A	N/A	45.0	0.15	0.00	0.2	10.7	581.50	581.50	587.80	6.29
LINE SD-A LAT A-1																																582.09		
1+19.04	1+03.54	15.50	DA-3	0.07	1.00	0.95	0.07	0.07	10.0	100	9.24	0.6	0.0000	1	18	0	0	0.3	INLET	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.25	0.00	0.7	10.7	582.09	582.09	590.00	7.91
1+03.54	1+00.00	3.54					0.00	0.07	10.7	100	9.24	0.6	0.0000	1	18	0	0	0.3	BEND	N/A	N/A	N/A	N/A	N/A	N/A	45.0	0.15	0.00	0.2	10.9	582.09	582.08	590.30	8.21

	Inlet						Sag Grate Calculations								Sag Curb Inlet Calculations										Design		
							Orifice $Q = C_o A(2gd_o)^{0.5}$					Weir $Q = C_w P d^{1.5}$				Orifice $Q = C_o hL(2gd_o)^{0.5}$					Weir $Q = C_w(L+1.8W)y^{1.5}$							
INLET	Drainage Area Inlet	Area	Runoff "C"	Tc	100-Yr. Intensity	100-Yr. Runoff	Coefficient C_o	Allowable Head	Width	Length	Q_{CAP}	Coefficient C_w	Allowable Head	Perimeter	Q_{CAP}	Coefficient C_o	h	d_O	Length (L)	Q_{CAP}	Coefficient C_w	Width (W)	Length (L)	y	Q_{CAP}	Q_{CAP}	Q_{100}	Inlet Type
		acre		min.	in/hr	cfs		ft	ft	ft	cfs		ft	ft	cfs		ft	ft	ft	cfs		ft	ft	ft	cfs	cfs	cfs	
DA-2	DA-2	0.55	0.95	10	9.24	4.8	0.67	0.5	3	3	30.8	3	0.5	9	9.5											9.5	4.8	36" Grate Inlet
DA-3	DA-3	0.07	0.95	10	9.24	0.6	0.67	0.5	3	3	30.8	3	0.5	9	9.5											9.5	0.6	36" Grate Inlet
DA-4	DA-4	0.20	0.95	10	9.24	1.8	0.67	0.5	3	3	30.8	3	0.5	9	9.5											9.5	1.8	36" Grate Inlet
EXISTING	DA-1, OS-1	0.47	0.95	10	9.24	4.1	0.67	0.5	3	3	30.8					0.7	0.5	0.5	5	8.9	3	0	5	0.5	5.3	5.3	4.1	5' Curb Inlet

Know what's below. Call before you dig.

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TEXAS REGISTERED ENGINEERING FIRM F-928

No.	REVISIONS	DATE

07/25/2024

SCALE: AS SHOWN | DESIGNED BY: MMM | DRAWN BY: CBM | CHECKED BY: MMM

STORM CALCULATIONS

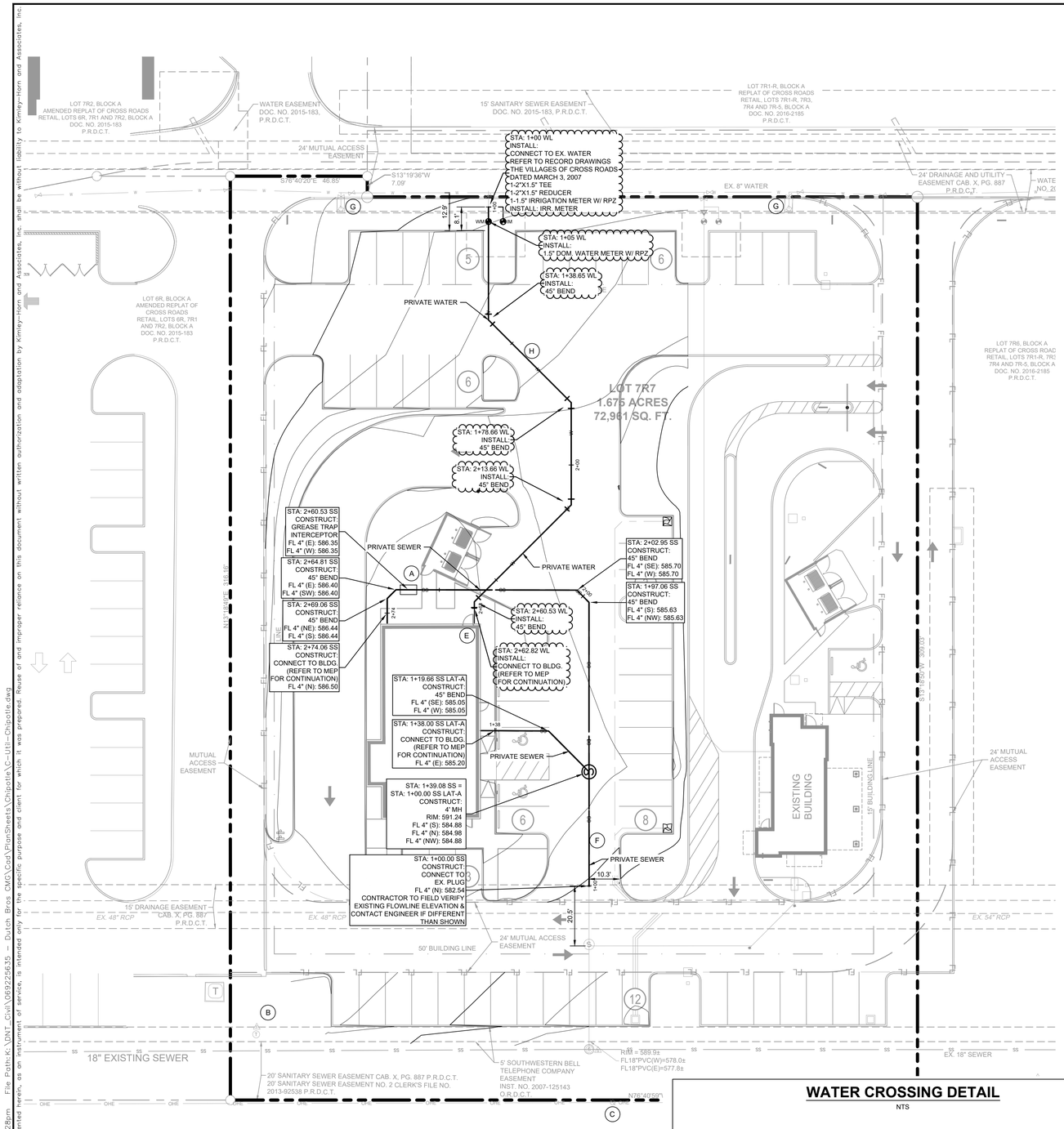
CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE 07/25/2024

PROJECT NO. 069225635

SHEET NUMBER C-6.5

Plotted By: Mukendi, Zoe Date: July 25, 2024 03:53:03pm File Path: K:\DNT_Civil\069225635 – Dutch Bros CMD\Cad\PlanSheets\Chipotle\C-Strm-Calcs-Chipotle.dwg
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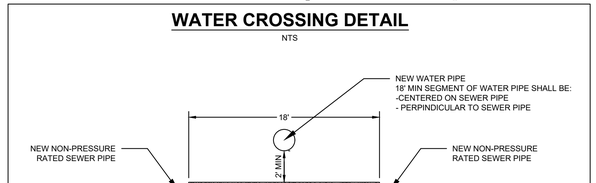


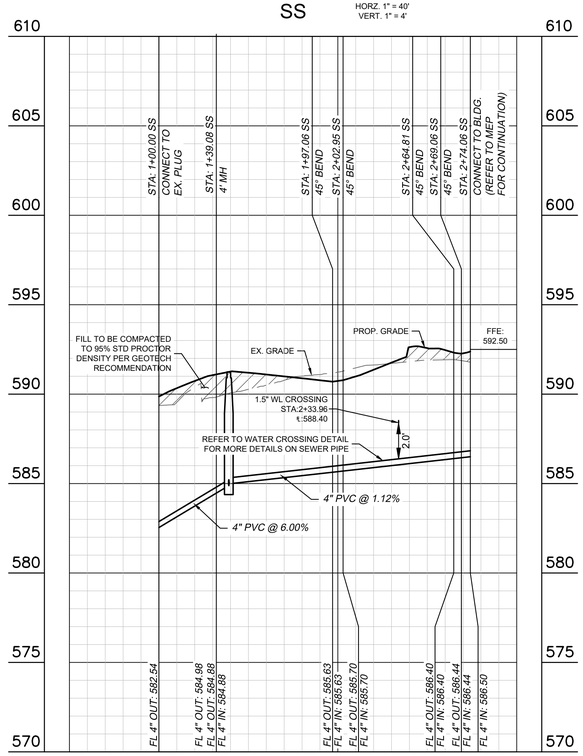
UTILITY KEYNOTE LEGEND

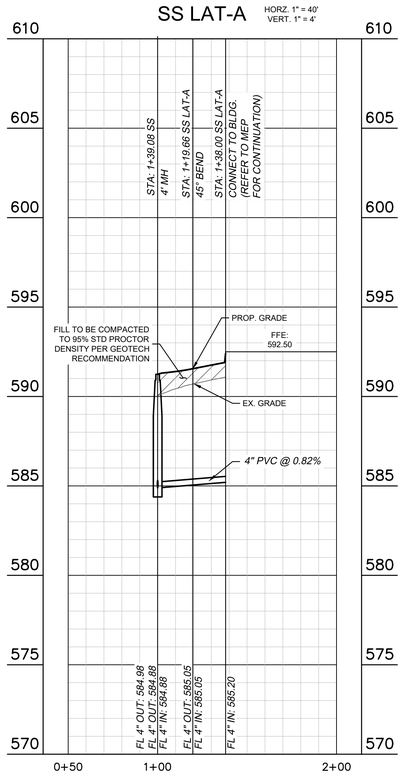
(A)	PROPOSED GREASE TRAP. REFERENCE ARCHITECTURAL/MEP PLANS.
(B)	PROPOSED TELEPHONE AND INTERNET LOCATION. REFERENCE ELECTRICAL PLANS FOR CONNECTION.
(C)	EXISTING POWER POLE. CONNECT WITH POLE MOUNTED TRANSFORMER OR COORDINATE ALTERNATIVE CONNECTION WITH COSERV.
(D)	PROPOSED ELECTRIC SERVICE LOCATION. REFERENCE ELECTRICAL PLANS.
(E)	PROPOSED 1.5" DOMESTIC WATER SERVICE LOCATION. REFERENCE MEP PLANS.
(F)	PROPOSED 4" SANITARY SEWER SERVICE.
(G)	EXISTING FIRE HYDRANT.
(H)	PROPOSED 1.5" DOMESTIC WATER SERVICE

WATER CROSSING DETAIL

NTS







NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

LEGEND

- PROPERTY LINE
- SETBACK LINE
- PROPOSED EASEMENT
- SS PROPOSED SANITARY SEWER LINE
- W PROPOSED WATER LINE
- PROPOSED STORM SEWER LINE
- EXISTING STORM SEWRLINE
- FL PROPOSED FIRE LANE
- OHP EXISTING OVERHEAD POWER LINE
- CBL EXISTING CABLE LINE
- GAS EXISTING GAS LINE
- W EXISTING WATER LINE
- SS EXISTING SANITARY SEWER LINE
- PROPOSED SANITARY SEWER MANHOLE (SS MH)
- PROPOSED DOUBLE CLEAN-OUT
- PROPOSED CLEAN-OUT
- PROPOSED FIRE HYDRANT (FH)
- PROPOSED FIRE DEPARTMENT CONNECTION (FDC)
- PROPOSED WATER METER
- PROPOSED WATER VALVE
- PROPOSED TEE
- PROPOSED BEND
- PROPOSED REDUCER
- PROPOSED LIGHT POLE
- EXISTING POWER POLE
- EXISTING LIGHT POLE
- EXISTING FIRE HYDRANT
- EXISTING STORM MANHOLE
- EXISTING SAN. SWR. MANHOLE
- EXISTING SIGN

UTILITY NOTES

1. SEE MEP PLANS FOR ALL UTILITY CONNECTIONS INTO BUILDING.
2. WATER AND SEWER LINES SHALL STUB 5 FEET FROM BUILDING FOR SERVICE CONNECTIONS UNLESS OTHERWISE NOTED.
3. A FIVE FOOT CLEARANCE SHALL BE MAINTAINED AROUND ALL FIRE HYDRANTS.
4. REFER TO DETAILS FOR WATER METER, METER BOX, FIRE HYDRANTS, VALVES, VALVE BOXES AND SERVICE INSTALLATION.
5. REFER TO DETAILS FOR SANITARY SEWER MANHOLE REQUIREMENTS.
6. REFER TO DETAILS FOR TRENCHING, BEDDING, BACK FILL, AND TRENCH COMPACTION REQUIREMENTS.
7. WATER AND SANITARY SEWER PIPE SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, ASBESTOS-CEMENT PRESSURE PIPE, PRETREATED CONCRETE PIPE, OR PVC PIPE.
8. PVC SLEEVES SHALL CONSIST OF 2 - 4" SCHEDULE 40 PVC CONDUITS, BURIED 2' MIN. BELOW FINISHED GRADE. SLEEVES SHALL EXTEND A MINIMUM OF 2' BEYOND PAVING.
9. REFER TO ARCH/MEP PLANS FOR MORE DETAILS ON 1" DOMESTIC & 4" SEWER CONNECTION.
10. DOMESTIC AND IRRIGATION SERVICE TO HAVE RPZ BACKFLOW PREVENTION AS REQUIRED BY MUSTANG UTILITY DISTRICT.
11. PROPOSED BUILDING IS LASS THAN 5,000 SF, NOT SPRINKLED & NO FIRE SERVICE CONNECTION IS REQUIRED.

BENCHMARKS

BM#301 "X" SET ON TOP OF THE NORTHEAST CORNER OF A TRANSFORMER PAD CORNER LOCATED 80' NORTH OF THE NORTH CURB LINE OF HIGHWAY 380, AND 2,100' EAST OF MAYLOR ROAD. ELEV = 593.38'

BM#204 "X" SET ON THE NORTH SIDE OF A CONCRETE DRIVE, 370' NORTH OF THE NORTH EDGE OF HIGHWAY 380, AND 385' EAST OF THE CENTER OF A DIVIDED CONCRETE DRIVE POSTED AS "WALMART DRIVE". ELEV = 592.91'

Know what's **below.** **Call** before you dig.

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TEXAS REGISTERED ENGINEERING FIRM F-928

STATE OF TEXAS — MARK M. MCCARTHY — 140083 — LICENSED PROFESSIONAL ENGINEER
07/25/2024

SCALE AS SHOWN
DESIGNED BY MMM
DRAWN BY CBM
CHECKED BY MMM

UTILITY PLAN

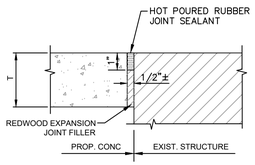
CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE 07/25/2024

PROJECT NO. 069225635

SHEET NUMBER C-7.0

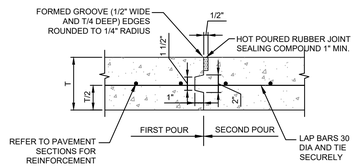
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T=PAVEMENT THICKNESS

ISOLATION JOINT DETAIL

N.T.S.

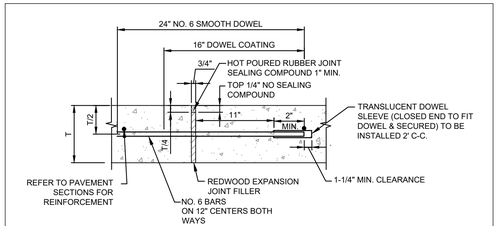


T=PAVEMENT THICKNESS

NOTE:
REFER TO GEOTECH REPORT FOR FURTHER INFORMATION.

CONSTRUCTION JOINT DETAIL

N.T.S.



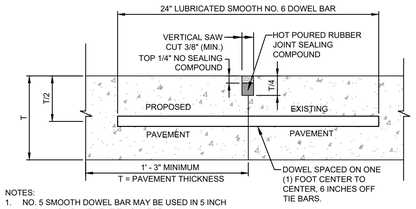
T=PAVEMENT THICKNESS

NOTE:
REFER TO GEOTECH REPORT FOR FURTHER INFORMATION.

DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE.

TRANSVERSE EXPANSION JOINT DETAIL

N.T.S.



NOTES:
1. NO. 5 SMOOTH DOWEL BAR MAY BE USED IN 5 INCH AND 6 INCH PAVEMENT THICKNESS.
2. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.
3. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.
4. DRILLING BY HAND IS NOT ACCEPTABLE, PUSHING DOWEL BARS INTO GREEN CONCRETE NOT ACCEPTABLE.

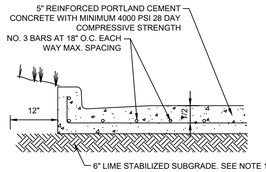
T=PAVEMENT THICKNESS

NOTE:
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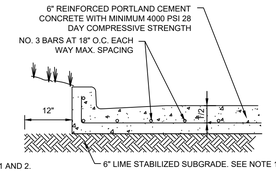
LONGITUDINAL BUTT JOINT DETAIL

N.T.S.

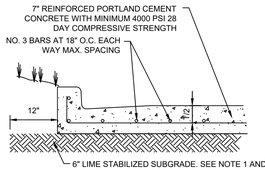
STANDARD DUTY CONCRETE PAVING



MEDIUM CONCRETE PAVING



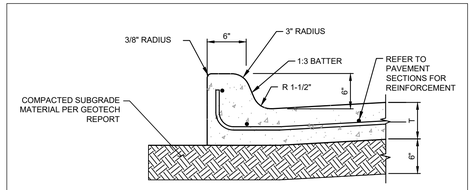
HEAVY DUTY CONCRETE PAVING



NOTE:
1. THE TOP 6 INCHES OF THE SUBGRADE SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE STANDARD EFFORT (ASTM D698) MAXIMUM DRY DENSITY AT A MOISTURE CONTENT BETWEEN 0 TO 3 PERCENT WET OF THE OPTIMUM MOISTURE CONTENT.
2. THE PAVEMENT SUBGRADE SHOULD BE TREATED WITH LIME IN ACCORDANCE WITH TXDOT 2004 STANDARD SPECIFICATIONS ITEM 260. APPROXIMATELY 6 PERCENT LIME BY DRY WEIGHT SHOULD BE USED FOR ESTIMATING AND PLANNING. THE ACTUAL QUANTITY OF LIME SHOULD BE DETERMINED AT THE TIME OF CONSTRUCTION BASED ON LIME DETERMINATION TESTS CONDUCTED USING BULK SAMPLES OF THE SUBGRADE SOILS.
3. CONCRETE SHOULD CONTAIN A MINIMUM OF 5±1 PERCENT OF ENTRAINED AIR AND 1" MAX AGGREGATE SIZE.
4. PAVEMENT CAN BE PLACED ON 6" COMPACTED SUBGRADE IN LIEU OF LIME STABILIZED SUBGRADE. FOR THIS ALTERNATIVE DESIGN, CONCRETE PAVEMENT SECTION THICKNESS SHOULD BE INCREASED BY 1 INCH.
5. PAVEMENT SECTION PROVIDED FROM GEOTECH REPORT NO. 94205353

CONCRETE PAVEMENT SECTION

N.T.S.

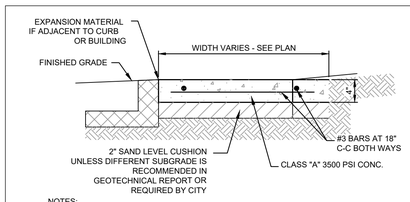


T=PAVEMENT THICKNESS

NOTE:
REFER TO GEOTECH REPORT FOR FURTHER INFORMATION.

TYPE "A" INTEGRAL CURB DETAIL

N.T.S.



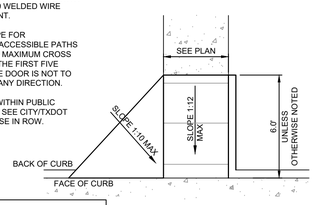
NOTES:
1. PROVIDE BITUMINOUS EXPANSION MATERIAL WHERE WALK ABUTS EXISTING IMPROVEMENTS AND AT ALL CHANGES IN GRADE
2. SPACE CONTROL JOINT UNIFORMLY AT INTERVALS EQUAL TO THE WALK WIDTH OR AS SHOWN ON ARCHITECTURAL PLANS.
3. PLACE PREMOLDED EXPANSION JOINT MATERIAL AROUND ALL STRUCTURES IN NEW WALK ALONGSIDE ALL ADJACENT BUILDINGS AND ABUTTING STRUCTURES TO THE NEW CONCRETE SIDEWALK
4. SEAL EXPANSION & CONTRACTION JOINTS WITH AN APPROVED TYPE SEALANT.
5. SIDEWALK PAVEMENT WHERE PATIO FURNITURE IS TO BE PLACED MUST BE 4000 PSI.

NOTE:
REFER TO GEOTECH REPORT FOR FURTHER INFORMATION.

CONCRETE SIDEWALK DETAIL

N.T.S.

NOTES:
1. RAMP SHALL HAVE A LIGHT BROOM SWEPT FINISH PER ADA/TAS REQUIREMENTS.
2. TAPERED CURB AND GUTTER SECTION. MAINTAIN GUTTER FLOWLINE AS REQUIRED.
3. RAMP SHALL BE CONSTRUCTED OF 4" THICK, 3500 PSI CONCRETE WITH 6"x6" W2.9xW2.9 WELDED WIRE REINFORCEMENT.
4. MAXIMUM SLOPE FOR HANDICAPPED ACCESSIBLE PATHS ARE 5% WITH A MAXIMUM CROSS SLOPE OF 2%. THE FIRST FIVE FEET FROM THE DOOR IS NOT TO EXCEED 2% IN ANY DIRECTION.
5. NOT FOR USE WITHIN PUBLIC RIGHT OF WAY. SEE CITY/TXDOT DETAILS FOR USE IN ROW.

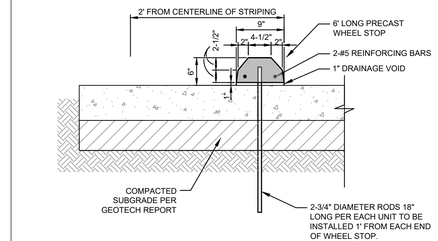


PLAN VIEW

NOTE:
ALL ACCESSIBLE ROUTES AND BARRIER FREE RAMPS MUST COMPLY WITH TEXAS ACCESSIBILITY STANDARDS, LATEST EDITION.

BARRIER FREE RAMP DETAIL

N.T.S.



NOTE:
1. PRE-CAST CONCRETE OR PLASTIC WHEEL STOPS MAY BE USED WITH CANE'S CONSTRUCTION MANAGERS APPROVAL.

PRECAST CONCRETE WHEEL STOP DETAIL

N.T.S.

NOTE:
TOWN OF CROSSROADS DETAILS TAKE PRECEDENCE IN CITY R.O.W. AND EASEMENTS

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PHONE: 940.287.3620
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

MARK M. MCCULLOUGH 140363 LICENSED PROFESSIONAL ENGINEER
07/25/2024

SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
AS SHOWN	MMM	CBM	MMM

CONSTRUCTION DETAILS

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

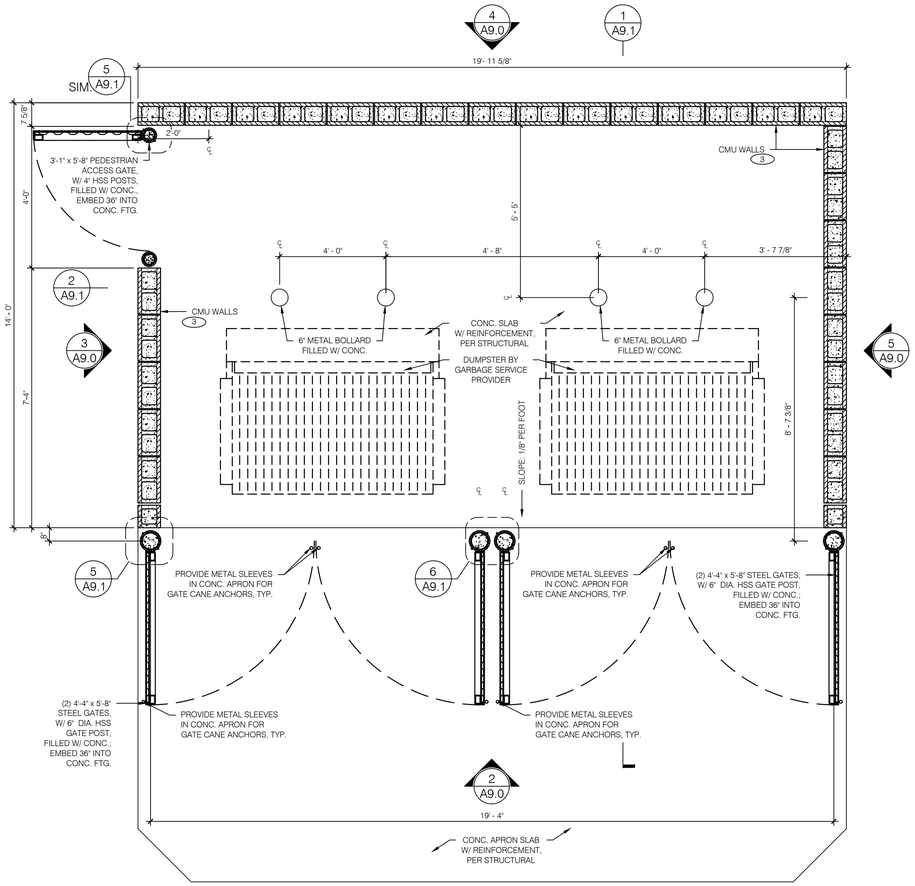
DATE
07/25/2024

PROJECT NO.
069225635

SHEET NUMBER
C-8.0

Plotted By:Mukendi, Zoe Date:July 25, 2024 03:53:35pm File Path:K:\DNT_Civil\069225635 - Dutch Bros CMC\Cad\PlanSheets\Chipotle\C-Const-Det-Chipotle.dwg
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TRASH ENCLOSURE MATERIALS				
ID	MATERIAL	MANUFACTURER	COLOR	NOTES
3	CMU BLOCK	WILLAMETTE-GRAYSTONE	CHARCOAL	SPLIT FACE, 8x16x8; 8x8x8 AS NECESARY
	CMU CAP	WILLAMETTE-GRAYSTONE	CHARCOAL	12x16x2
PT-2	PAINT	SHERWIN-WILLIAMS	-	BLDG DB DARK GRAY; GATES BODY
PT-3	PAINT	SHERWIN-WILLIAMS	-	BLDG DB BLUE, GATE FRAMES & POSTS



1 TRASH ENCLOSURE PLAN

NOT TO SCALE

NOTE:
TOWN OF CROSSROADS DETAILS TAKE PRECEDENCE IN CITY R.O.W. AND EASEMENTS

Know what's **below.** **Call** before you dig.

CAUTION!!

THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION . IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE. CALL 811 AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN VICINITY.

No.	REVISIONS	DATE

Kimley»Horn
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PHONE: 940.287.3920
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

REGISTERED PROFESSIONAL ENGINEER
MARK M. MUKENDI
140083
LICENSED
07/25/2024

SCALE
AS SHOWN
DESIGNED BY
MMM
DRAWN BY
CBM
CHECKED BY
MMM

CONSTRUCTION DETAILS

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE
07/25/2024

PROJECT NO.
069225635

SHEET NUMBER
C-8.1

Plotted By:Mukendi, Zoe Date:July 25, 2024 03:53:40pm File Path:K:\DNT_Civil\069225635 - Dutch Bros CMC\Cad\PlanSheets\Chipotle\C-Const-Detl-Chipotle.dwg
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MSUD GENERAL NOTES

1. All construction shall be in accordance with the standard specifications of Mustang Special Utility District, which has also adopted the latest edition of the "Standard Specifications For Public Works Construction - North Central Texas" herein referred to as "NCTCOG" specifications. Copies may be obtained from the North Central Texas Council of Governments, 616 Six Flags Drive, Suite 200, Arlington, Texas 76011.
2. Where specified name brands are indicated, products of equal or better may be considered for approval upon submittal of all supporting data to the MSUD Engineer for review.
3. The contractor shall provide for temporary 3" Cold Mix Asphaltic Concrete as per NCTCOG Item 302.3 to be placed over all vehicular traveled areas until the final repairs/improvements are made.
4. All newly installed pipes and fittings must conform to American National Standards Institute/National Sanitation Foundation (ANSI/NSF) Standard 61 and must be certified by an organization accredited by ANSI.
5. The existence and locations of all underground utilities shown on the drawings were obtained from available records and are approximate. Neither the owner nor the engineer assumes any responsibility for utilities not shown or not in the location shown. The contractor shall determine the depth and location of existing underground utilities prior to trenching and shall be required to take any precautionary measures to protect all lines shown and/or any other underground utilities not of record or not shown on the plans.
6. Any contractor/subcontractor performing work on this project shall familiarize himself with the site and shall be solely responsible for any damage to existing facilities resulting directly or indirectly from operations. Said existing improvements shall include but not be limited to berms, ditches, fences, plants, irrigation. Any removal or damage to existing improvements shall be replaced or repaired by the contractor at his expense and shall be approved by the engineer.
7. Contractor shall shore all trenches and conduct all construction and operations in accordance with Occupation Safety and Health Administration (OSHA) requirements.
8. All construction and materials shall comply with Mustang SUD specifications. Any construction and/or materials not covered in Mustang SUD specifications shall be in accordance with NCTCOG specifications or the AWWA.
9. It shall be the contractor's responsibility to provide adequate record drawings to the engineer/Mustang SUD immediately after construction.
10. It shall be contractor's responsibilities to verify location, elevation and dimensions of adjacent and/or conflicting utilities in advance of construction in order that adjustments can be made to provide adequate clearance, if required. The contractor shall preserve and protect public utilities at all times during construction. Any damage to utilities resulting from the contractor's operation shall be restored at his expense. The engineer shall be notified when proposed facility's grades conflict with existing utility's grades.
11. All materials for water and wastewater shall be domestic. Any exceptions made will be at Mustang's or the Engineer's discretion.

MSUD WATER NOTES:

GENERAL:

1. All water lines and appurtenances shall be constructed in accordance with TCEQ requirements Chapter 290.
2. All water lines shall be designed, manufactured, and installed in accordance with current Mustang SUD water standards details.
3. All pipes and appurtenances shall conform to American National Standards Institute/National Sanitation Foundation (ANSI/NSF) Standard 61 and must be certified by ANSI.
4. All pipes and appurtenances shall be installed in accordance with manufacturer's instruction.
5. Contractor to provide a curve in waterline to avoid storm drain inlets at all locations.
6. Franchise Utility Note: Other utilities such as gas, electric, telephone, cable, etc. shall not be installed in the same trench as water service lines.

PIPE:

7. All PVC water pipe shall be BLUE in color for potable and PURPLE in color for non-potable.
8. All PVC pipe shall be installed with metallic detector tape.
9. Water mains up to and including 12" diameter shall be AWWA C900-16 DR18 (Pressure Class 235). Mustang SUD reserves the right to require AWWA C900-16 DR14 (Pressure Class 305) for higher pressure applications as determined by Mustang SUD's Engineer. Water mains greater than 12" diameter may be AWWA C900-16 DR18 (Pressure Class 235) OR one of the following:
   9.1. Reinforced Concrete Cylinder Pipe (RCCP) C303 pressure class 150 or greater as specified by the Engineer.
   9.2. Ductile Iron pipe with Polywrap and cement mortar lining (AWWA C104), thickness class 51 or greater.
10. Embedment: For Pipe sizes 12" and smaller, the Embedment shall be as per the MSUD "Pipe Embedment Detail".
11. Cover
    11.1. The following minimum covers over the waterline is required:
    11.1.1. 48" of cover over waterlines up to and including 12" diameter.
    11.1.2. 60" to 72" of cover over waterlines larger than 12" in diameter.
    11.2. Water mains buried with over 72" of cover shall be approved by the MSUD Engineer.
    11.3. The minimum cover over all Water mains is 4 feet, unless approved otherwise by the MSUD Engineer. Approved mains with less than 3.5 feet of cover shall be capped as per the MSUD "Cap Detail".
12. Storage: PVC water pipe is allowed to be stored a maximum of six (6) months without cover. Thereafter all pipe should be covered or kept away from sunlight and to be protected from other elements.
13. The Contractor is responsible to install the pipe in a way that the writing on the pipe is installed on the side up and is readable from the top of the ditch.
17. All ductile iron pipe, fittings and restraints shall be manufactured domestically.
18. All ductile iron pipe, fittings, valves, etc. shall be encased with polyethylene wrap 8 mils thick.
19. The pipe shall have beveled or chamfered ends according to manufacturer recommendations when using in MJ fittings.
20. When PVC water pipe is installed in casing, casing spacers must be used to prevent damage to the pipe and bell during installation. PVC pipe shall not rest on the Bells. Plastic spacers such as RACI or approved equal shall be used.
21. Pipe shall be handled so as to protect pipe and pipe joints and carefully bedded to provide continuous bearing and prevent uneven settlement. Pipe shall be protected against flotation at all times. Open ends of installed pipe shall be sealed at all times when construction is not in progress.

FITTINGS:

22. The Contractor shall use cast iron or ductile iron fittings, complete with Polywrap.
23. All fittings shall be MJ unless specified otherwise.
24. All fittings shall be blocked per the MSUD Water Standard Details.
25. Tapping sleeves shall be ductile iron and manufactured by Mueller, Tyler Union or approved equal.
26. Please also refer to NCTCOG Item 502.5.2 specifications.
27. The use of 90° bends in water mains is prohibited without approval of MSUD Engineer. Two 45° bends are allowed.
28. Install 12"X12"X3" concrete block under fittings installed on PVC pipe.
29. Restrained joints such as Mega-Lug or equal are required at all fittings.
30. All ductile iron fittings and restraints shall manufactured domestically.

VALVES:

31. Valves installed on waterlines 12" in diameter or less shall be vertical gate valves.
32. Valves installed on waterlines larger than 12" in diameter shall be butterfly valves. An offset vault shall be installed at the butterfly valve operator.
33. All gate valves shall have non-rising stems and resilient sealed wedge.
34. All potable-water pipe air release valve stabilization poles shall be painted blue in color.
35. All valves and fire hydrants shall be in line with the property line, where possible.
36. All valve locations shall be marked with "V" stamped or cut on the curb.
37. Install 12"x12"x3" concrete block under valves installed on PVC pipe.
38. Contractor to provide extensions for all valve stacks and fire hydrant leads/risers for all water lines deeper than 48" depth.

TESTING:

39. Hydrostatic test as per NCTCOG Item 506.5 specifications shall be performed
40. Water system shall be disinfected in accordance with American Water Works Association (AWWA) C651 (current edition) and then flushed and sampled before being placed in service. Samples shall be collected in accordance with Mustang SUD testing requirements.
41. All temporary test points to have corporation stops at the main. All temporary testing & chlorination points shall be removed at the corporation stop prior to final acceptance.
42. The Contractor shall take a sample of water from a tap on a sterilized main in the presence of a MSUD Representative and submit the sample(s) to an approved Testing Laboratory for analysis. After receiving approved sample, the Contractor, along with MSUD Representative, shall place sterilized lines into service.
43. All fire hydrants shall be flow and pressure tested and marked (tag and color coded paint) in accordance with NFPA 291 "Recommended Practice for Fire Flow Testing and Marking of Hydrants", latest edition. Copies of each test report for each fire hydrant, including a map showing the location of the fire hydrant being flow tested and the location of the pressure hydrant, shall be provided to Mustang SUD prior to acceptance of the system and the beginning of service. See WATER STANDARD DETAILS (1 OF 2) for Fire Hydrant Flow Test Report form.

MSUD WASTEWATER NOTES:

GENERAL:

1. All wastewater lines and appurtenances shall be constructed in accordance with TCEQ requirements Chapter 217.
2. All wastewater lines shall be designed, manufactured, and installed per Mustang SUD wastewater standard details.
3. All pipes and appurtenances shall be installed in accordance with manufacturer's instruction.
4. Wastewater system shall be tested in accordance with TCEQ for allowable leakage and pipe deflection before being placed in service. Test results shall be provided to Mustang SUD.
5. All wastewater manholes, drop manholes, wet wells, and force-main-to-gravity transition manholes shall be lined with Raven 405 or Quadex Structure Guard.
6. All force main ductile iron pipe and fittings shall be lined with Protecto 401 (P401) ceramic epoxy or approved equal.
7. All curvature shall be accomplished by the manual bending of the pipe lengths in the trench. Mechanical means will not be allowed to accomplish design radii. No deflection of joints will be allowed.
8. All ductile iron pipe, fittings, valves, etc. shall be encased with polyethylene wrap 8 mils thick.
9. All ductile iron pipe, fittings and restraints shall be manufactured domestically.
10. All gravity main fittings shall be rubber gasket push on type.
11. Franchise Utility Note: Other utilities such as gas, electric, telephone, cable, etc. may share the wastewater service line trench provided such utilities are offset a minimum of 5' from the wastewater service line.

PIPE:

12. All PVC pipe shall be installed with metallic detector tape.
13. All PVC gravity or pressure wastewater pipe shall be green in color.
14. Wastewater mains shall be Polyvinyl Chloride PVC SDR-35 for depths of burial up to 11.5'. Wastewater mains placed deeper than 11.5' shall be PVC SDR-26 unless specified and approved otherwise by the MSUD Engineer.
15. Nominal diameter for sanitary sewer pipeline shall be 8" minimum. Residential and commercial service lines are excluded from this requirement.
16. Embedment shall be as per the "Wastewater Pipe Embedment Detail" on this sheet.
17. The minimum cover over all Wastewater mains is 4 feet, unless approved otherwise by the MSUD Engineer. Approved mains with less than 3.5 feet of cover shall be capped as per the "Concrete Cap" Detail.
18. Clay cut-off walls shall be constructed as per the "Clay Cut Off Wall" Detail.
19. PVC wastewater pipe is allowed to be stored a maximum of six (6) months without cover. Thereafter all pipe should be covered or kept away from sunlight and protected from other elements.
20. When PVC wastewater pipe is installed in casing, casing spacers shall be used to prevent damage to the pipe and bell during installation. PVC pipe shall not rest on the bells. Plastic spacers such as RACI or approved equal shall be used.
21. Pipe shall be handled so as to protect pipe and pipe joints and carefully bedded to provide continuous bearing and prevent uneven settlement. Pipe shall be protected against flotation at all times. Open ends of installed pipe shall be sealed at all times when construction is not in progress.

WASTEWATER SERVICE NOTES:

22. All property corners shall be staked with iron pins prior to the installation of any wastewater services. The locations of the wastewater service shall be staked according to the plans.
23. Wastewater services to be marked with "I" stamped or cut in the curb and painted green.
24. Contractor shall install locator pads or balls on the end of sewer services.

TESTING:

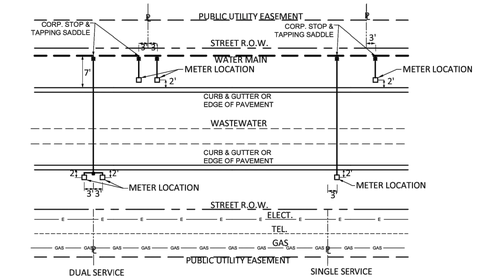
The following tests shall be performed and a written report provided to Mustang SUD:

25. Televising as per NTCOG Item 507.5.2 specifications. Camera shall pan around to show service connections.
26. Low pressure air testing as per TCEQ 31 TAC 217.57.
27. Mandrel deflection test as per TCEQ 31 TAC 217.57
28. Infiltration/Exfiltration test as per TCEQ 31 TAC 217.57.
29. Manholes shall be tested per TCEQ 31 TAC 217.58.
30. Provide final air test and clean prior to project acceptance or final walk-through.

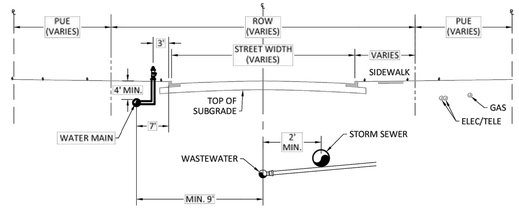
SYSTEM DESIGN VALUES:

WATER:
Average Day Demand = 288 GPD/Connection
Maximum Day Demand = 0.6 gpm
Peak Hour Demand = 1.032 gpm
Single-family Residential = 3.2 people per unit
Multi-family Residential = 2.25 people per unit

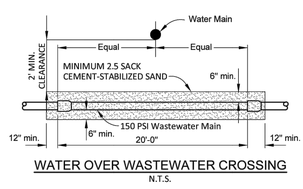
WASTEWATER:
SF Average Day Generation = 250 gpd/connection
MF Average Day Generation = 175 gpd/connection
SF Maximum Day Generation = 1000 gpd/connection
MF Maximum Day Generation = 700 gpd/connection
Single-family Residential = 3.2 people per unit
Multi-family Residential = 2.25 people per unit



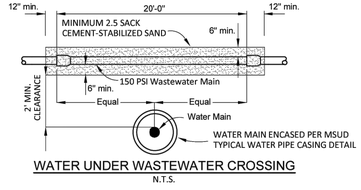
TYPICAL WATER LINE/SERVICE LOCATION LAYOUT DETAIL
N.T.S



TYPICAL UTILITY PROFILE
CURB & GUTTER ROAD SECTION
N.T.S.



WATER OVER WASTEWATER CROSSING
N.T.S.



WATER UNDER WASTEWATER CROSSING
N.T.S.

NOTES:
1. WHERE A WATER MAIN CROSSES A WASTEWATER MAIN OR LATERAL AND NINE-FOOT SEPARATION CANNOT BE ACHIEVED, A FULL JOINT (20') OF PRESSURE-RATED PVC PIPE (150 PSI MIN.) SHALL BE USED ON THE WASTEWATER MAIN OR LATERAL, CENTERED ABOUT THE WATER MAIN.
2. ADDITIONALLY, WHERE A WASTEWATER MAIN CROSSES OVER A WATER MAIN, AND NINE-FOOT SEPARATION CANNOT BE ACHIEVED, THE WATER MAIN SHALL BE ENCASED IN AN 18-FOOT (OR LONGER) SECTION OF PIPE CENTERED ABOUT THE WASTEWATER MAIN.

NO.	REVISION	BY	DATE

MUSTANG SPECIAL UTILITY DISTRICT

APPROVED BY MSUD
GENERAL MANAGER: C. BOYD DATE: 2020-09-14

GENERAL NOTES

CERTIFICATION:
THIS MUSTANG SPECIAL UTILITY DISTRICT STANDARD DETAIL SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THIS ENGINEER IS ALSO CERTIFYING THAT THE CONTENT OF THE DETAILS AND NOTES ON THIS SHEET HAVE NOT BEEN ALTERED FROM THAT RECEIVED FROM MUSTANG SPECIAL UTILITY DISTRICT.

NOTE:
TOWN OF CROSSROADS DETAILS TAKE PRECEDENCE IN CITY R.O.W. AND EASEMENTS

Know what's **below.**
Call before you dig.

CAUTION!!
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100 WEST OAK STREET, SUITE 300, DENTON, TX 76201
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WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

STATE OF TEXAS — MARK M. MCCULLOUGH — 140083 — LICENSED PROFESSIONAL ENGINEER
07/25/2024

SCALE: AS SHOWN
DESIGNED BY: MMM
DRAWN BY: CBM
CHECKED BY: MMM

MUSTANG SPECIAL UTILITY DETAILS

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

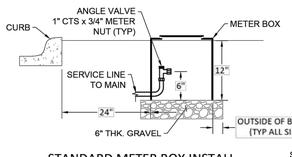
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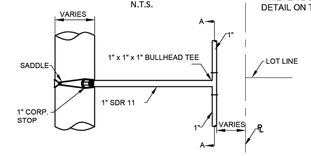
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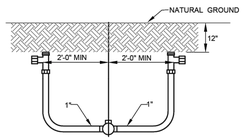
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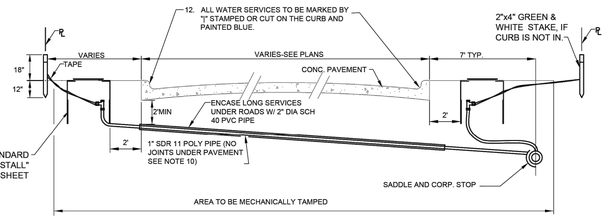
STANDARD METER BOX INSTALL
N.T.S.



1" SERVICE WITH BULLHEAD TEE

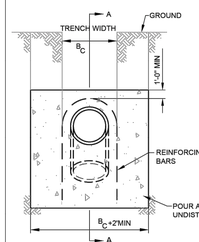


SECTION 'A - A' (ROTATED 90°)

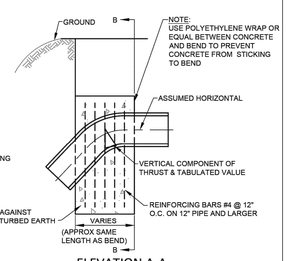


WATER SERVICE DETAIL
N.T.S.

WATER SERVICE NOTES:
1. ALL PROPERTY CORNERS SHALL BE STAKED WITH IRON RODS PRIOR TO THE INSTALLATION OF WATER SERVICES. THE LOCATIONS OF SERVICES SHALL BE STAKED ACCORDING TO THE PLANS.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL THE CORPORATION STOP, WATER SERVICE PIPE, ANGLE VALVE, CONNECTOR PIPE, AND METER BOX AS PER THE DETAILS ON THIS SHEET.
3. DIRECT TAPS ARE NOT ALLOWED. STAINLESS STEEL EPOXY COATED TAP SADDLES WITH IP THREADS SHALL BE USED FOR 1" TO 2" TAPS.
5. ALL TAPS LARGER THAN 2" SHALL BE MADE USING TAPPING TEES.
6. CUTTER FOR TAPS TO BE OF THE DOUBLE SLOTTED TYPE.
7. 1" TO 2" TAPS SHALL BE A MINIMUM OF 1' APART WITH TAPS NO CLOSER THAN 1' FROM THE END OF THE PIPE.
8. HOUSE SERVICES ON COMMON LOT LINES SHALL BE 1" WITH BULLHEAD.
9. CONTRACTOR MAY USE EITHER FLARED OR COMPRESSION FITTINGS WITH RESTRAINED UNIONS.
10. NO SPLICES OF WATER SERVICES SHALL BE PERMITTED UNDER PAVEMENT UNLESS APPROVED BY THE MSUD ENGINEER.
11. METER BOX SHALL BE SET 2 FT BEHIND CURB, OUTSIDE OF DRIVEWAYS AND PAVED AREAS.
12. ALL METERS 2" AND SMALLER SHALL HAVE A BFP INSTALLED WITH THE METER ASSEMBLY. ALL WATER METER ASSEMBLIES ARE SUPPLIED BY MSUD.
13. SERVICE TO BE STAKED BEFORE PAVING. METER BOX TO BE STAKED AFTER PAVING.
14. ALL RESIDENTIAL METERS SHALL BE BADGER E SERIES.
15. ALL SERVICE BRASS COMPONENTS SHALL BE FORD WATER PRODUCTS (OR APPROVED EQUAL) AND 150-PSI PRESSURE RATED.
16. ALL RESIDENTIAL METER BOXES SHALL BE DFW37C-12-1F.
17. METER BOX REQUIREMENTS:
    17.1. ¾"-1" IN THE NEW STANDARD DFW37C-12-1F (METER BOX SUPPLIED AND INSTALLED BY DEVELOPER; METER SUPPLIED AND INSTALLED BY MSUD).
    17.2. 1.5" IN A 1730C-18-1F (METER BOX SUPPLIED AND INSTALLED BY DEVELOPER; METER SUPPLIED AND INSTALLED BY MSUD).
    17.3. 2"+ IN A 5X5 VAULT UNLESS SPACE IS LIMITED. (2" METER SUPPLIED BY MSUD ANYTHING LARGER BY DEVELOPER, VAULT BY DEVELOPER).



ELEVATION B-B

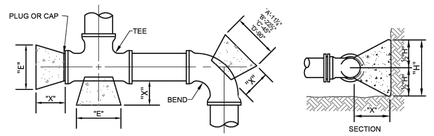


ELEVATION A-A

Δ	11¼°	22½°	45°
I.D. (IN.)	VOL. C.Y.	VOL. C.Y.	VOL. C.Y.
4	0.3	0.5	1.0
6	0.6	1.1	2.1
8	1.0	2.0	3.6
10	1.5	2.9	5.4
12	2.1	4.2	7.7
14	2.8	5.6	10.3
16	3.7	7.2	13.3
18	4.6	9.1	16.8
20	5.7	11.1	20.6
24	8.1	15.9	29.3
30	9.3	18.3	33.9
36	13.4	26.2	48.5

VERTICAL THRUST BLOCK NOTES:
1. CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 P.S.I. FOR 24" I.D. PIPE AND SMALLER AND 150 P.S.I. ON 30" I.D. AND LARGER.
2. CALCULATIONS ARE BASED ON WEIGHT OF CONCRETE OF 140 LBS PER CUBIC FOOT, SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING VALUE OF 2,500 POUNDS PER SQUARE FOOT.
3. VOLUMES OF VERTICAL BEND THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THRUST ON THE VERTICAL BEND.
4. CONCRETE FOR BLOCKING SHALL BE 2500 P.S.I. CONCRETE AT 28 DAYS.
5. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
6. ALL CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED TRENCH WALLS.
7. KEEP CONCRETE CLEAR OF ALL JOINTS & ACCESSORIES. INSTALL 12 MIL POLYETHYLENE SHEETING AROUND FITTINGS. SECURE ENDS TO PREVENT INFILTRATION OF SOIL BETWEEN SHEETING AND PIPE FITTING PRIOR TO POURING THRUST BLOCK. PROTECT MECHANICAL JOINTS, FOLLOWERS, AND BOLTS FROM CONCRETE WITH TEMPORARY FORMS AND POLYETHYLENE.
8. ALL CONCRETE THRUST BLOCKS SHALL CONSIST OF A MIXTURE OF 1:2:6 OF CEMENT TO WASHED SAND TO GRAVEL AND SHALL BE CURED A MINIMUM OF 24 HOURS.

VERTICAL THRUST BLOCKS AT FITTINGS



PIPE SIZE	"X" FT.	"H" FT.	11¼° "A" FT.	11¼° MIN. AREA	22½° "B" FT.	22½° MIN. AREA	45° "C" FT.	45° MIN. AREA	90° "D" FT.	90° MIN. AREA	TEE & PLUG "E" FT.	TEE & PLUG MIN. AREA
4"	1.5	1.2	1.2	1.4	1.2	1.4	1.2	1.4	1.9	2.3	1.4	1.7
6"	1.5	1.3	1.3	1.7	1.3	1.7	2.0	2.6	3.7	4.8	2.6	3.4
8"	1.5	1.3	1.3	1.7	1.8	2.3	3.4	4.4	6.3	8.2	4.5	5.9
10"	1.5	1.4	1.4	2.0	2.4	3.4	4.8	6.7	8.8	12.3	6.2	8.7
12"	1.5	1.6	1.6	2.6	3.0	4.8	5.9	9.4	10.9	17.4	7.7	12.3
14"	1.5	1.8	1.8	3.2	3.6	6.5	7.1	12.8	13.0	23.4	9.2	16.5
16"	2.0	2.1	2.1	4.4	4.0	8.4	7.8	16.4	14.5	30.5	10.2	21.4
18"	2.0	2.3	2.3	5.3	4.6	10.6	9.0	20.7	16.5	38.0	11.7	26.9
20"	2.0	2.6	2.6	6.8	5.0	13.0	9.7	25.2	18.0	46.8	12.7	33.0
24"	2.0	3.1	3.1	9.6	6.0	18.6	11.6	36.0	21.2	65.7	15.2	47.1
30"	2.5	3.8	3.8	14.4	7.5	28.5	14.6	55.5	27.0	102.6	19.1	72.6
36"	2.5	4.5	4.5	20.3	9.0	40.5	17.7	79.7	32.6	146.7	23.1	104.0

HORIZONAL THRUST BLOCK NOTES:
1. RETAINER GLANDS OR OTHER RESTRAINING DEVICES MAY BE REQUIRED AS NEEDED.
2. CALCULATIONS ARE BASED ON A TEST PRESSURE OF 150 PSI, WEIGHT OF CONCRETE OF 140 LBS PER CUBIC FOOT, SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING VALUE OF 2,500 POUNDS PER SQUARE FOOT. FOR OTHER PRESSURES AND SOIL STRENGTHS, AREAS AND VOLUMES MUST BE ADJUSTED ACCORDINGLY.
3. 2500 PSI CONCRETE AT 28 DAYS SHALL BE USED FOR ALL BLOCKING.
4. ALL MINIMUM AREAS ARE IN SQUARE FEET.
5. ALL CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED TRENCH WALLS. THE DISTANCE FROM PIPE FITTINGS TO TRENCH WALL SHALL BE A MINIMUM OF 12" AT THRUST BLOCK.
6. KEEP CONCRETE CLEAR OF ALL JOINTS & ACCESSORIES. INSTALL 12 MIL POLYETHYLENE SHEETING AROUND FITTINGS. SECURE ENDS TO PREVENT INFILTRATION OF SOIL BETWEEN SHEETING AND PIPE FITTING PRIOR TO POURING THRUST BLOCK. PROTECT MECHANICAL JOINTS, FOLLOWERS, AND BOLTS FROM CONCRETE WITH TEMPORARY FORMS AND POLYETHYLENE.
7. ALL CONCRETE THRUST BLOCKS SHALL CONSIST OF A MIXTURE OF 1:2:6 OF CEMENT TO WASHED SAND TO GRAVEL AND SHALL BE CURED A MINIMUM OF 24 HOURS.
8. ALL JOINTS SHALL BE TEMPORARILY JACKED WHEN POURING THRUST BLOCKS.
9. CONCRETE THRUST BLOCKS SHALL APPLY TO ALL PIPE FITTINGS.

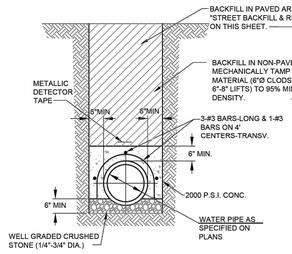
HORIZONTAL THRUST BLOCKS AT FITTINGS

TYPICAL PIPE EMBEDMENT
N.T.S.

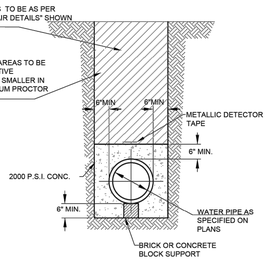
TABLE OF DIMENSIONS FOR WIDTH OF TRENCH AND PAVEMENT REPLACEMENT

NORMAL SIZE OF PIPE IN INCHES	O.D. OF PIPEBELL IN INCHES (PVC-DR18)	MINIMUM TRENCH WALL CLEARANCE "A" IN INCHES	WIDTH OF TRENCH ('X') MAXIMUM ** IN INCHES	WIDTH OF TRENCH ('X') MINIMUM ** IN INCHES	WIDTH OF PVMT. REPLACEMENT * (W) CONC& ASPHALT **
6	6.9	6	24	19	48
8	9.05	6	24	21	48
10	11.10	6	28	24	48
12	13.20	6	30	26	50
16+	VARIES	8	*	*	*

NOTE: * REFER TO THE PLANS FOR SPECIFIED WIDTH OF REPLACEMENT.
** RECOMMENDED WIDTHS - VARIES BASED ON DEPTH. AND SOIL MATERIAL.

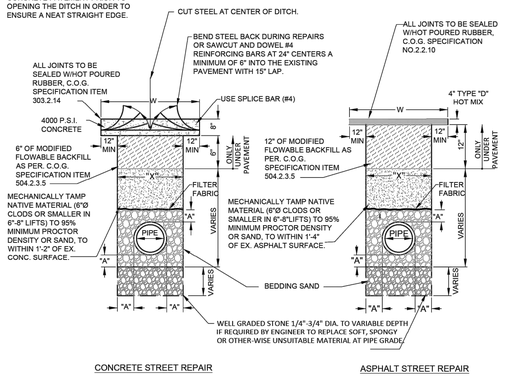


CONCRETE CAP DETAIL
N.T.S.

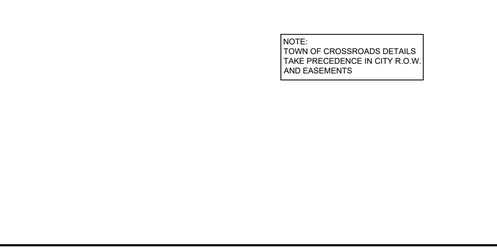


CONCRETE ENCASEMENT DETAIL
N.T.S.

NOTE:
SAWCUT TO REPAIR ASPHALT OR CONCRETE PAVEMENT PRIOR TO OPENING THE DITCH IN ORDER TO ENSURE A NEAT STRAIGHT EDGE.

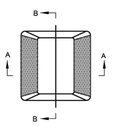


STREET BACKFILL AND REPAIR
N.T.S.

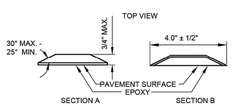


STANDARD FIRE HYDRANT DETAIL
N.T.S.

FIRE HYDRANT NOTES:
1. FIRE HYDRANTS SHALL BE LOCATED 3' OFF BACK OF CURB IN RESIDENTIAL, & 4' OFF BACK OF CURB IN INDUSTRIAL.
2. FIRE HYDRANTS SHALL BE COATED WITH KEM-LUSTRAL OR AN EQUIVALENT COATING.
3. FIRE HYDRANT LOCATION WILL BE MARKED BY PLACING A TYPE II PAVEMENT MARKER REFLECTORIZED BLUE 4" OFF OF THE TRAFFIC LANE BUTTONS. THE MARKER WILL BE IN THE LANE NEAREST TO THE FIRE HYDRANT. ALL MARKERS AT INTERSECTIONS SHOULD BE 10 FEET BACK FROM THE INTERSECTION. HYDRANT MARKERS SHOULD BE PLACED 4" OFF THE CENTER STRIPE OR OTHER TRAFFIC BUTTONS AS PER DRAWINGS.
4. FIRE HYDRANT LEAD SHALL BE NO LONGER THAN 10' IN LENGTH.
5. FIRE HYDRANT SHALL BE POWDER COATED SILVER WITH THE EXCEPTION OF THE BONNET AND CAPS, WHICH SHALL BE PRIMER COATED BASED ON FLOW.
6. FIRE HYDRANTS SHALL INCLUDE STORZ ADAPTER WITH CAP.
7. FIRE HYDRANT FLOW TESTING TO BE COMPLETED BY THIRD PARTY (NOT MUSTANG SUD).



TYPE II



PAVEMENT MARKERS (REFLECTORIZED) TYPE II

NOTE:
TOWN OF CROSSROADS DETAILS TAKE PRECEDENCE IN CITY R.O.W. AND EASEMENTS

Sample Fire Hydrant Flow Test Report

Fire Hydrant Flow Test Report (NFPA 291)

Location_____ Date_____

Test Performed By_____ Time_____M.

Representative of_____

Mustang SUD Witness_____

Purpose of Test_____

If Pumps Affect Test, Indicate Pumps Operating_____

Fire Hydrant	A_1	A_2	A_3	A_4
Nozzle Size				
Pitot Reading				
Elev. Difference from Test Hydrant (ft)				
Discharge Coeff				
Flow (gpm)				

Static B_____psi Residual B_____psi

Projected Results @ 20 psi Residual _____gpm; or @ _____ psi Residual _____ gpm

Remarks_____

Location map: Show line sizes and distance to next distribution system intersection. Show valves and hydrant branch size. Indicate north. Show flowing hydrants – Label A_1, A_2, A_3, A_4. Show location of static and residual – Label B.

Indicate B Hydrant_____ Sprinkler_____ Other (identify)_____

NOTE: Mail, hand-deliver or otherwise provide this completed report to the Mustang Special Utility District prior to acceptance of the system and beginning of service.

NO.	REVISION	BY	DATE

MUSTANG SPECIAL UTILITY DISTRICT

APPROVED BY MSUD
GENERAL MANAGER: C. BOYD DATE: 2020-09-14

WATER DETAILS (1 OF 2)

CERTIFICATION:
THIS MUSTANG SPECIAL UTILITY DISTRICT STANDARD DETAIL SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THIS ENGINEER IS ALSO CERTIFYING THAT THE CONTENT OF THE DETAILS AND NOTES ON THIS SHEET HAVE NOT BEEN ALTERED FROM THAT RECEIVED FROM MUSTANG SPECIAL UTILITY DISTRICT.

Know what's below. Call before you dig.

CAUTION!!
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No.	REVISIONS	DATE

Kimley»Horn
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100 WEST OAK STREET, SUITE 200, DENTON, TX 76201
PHONE: 940.387.3020
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928



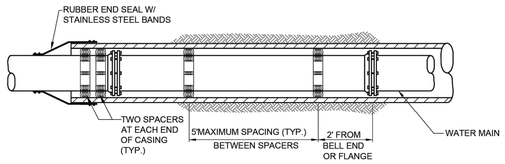
SCALE: AS SHOWN
DESIGNED BY: MMM
DRAWN BY: CBM
CHECKED BY: MMM

MUSTANG SPECIAL UTILITY DETAILS

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE: 07/25/2024
PROJECT NO. 069225635
SHEET NUMBER: C-9.1

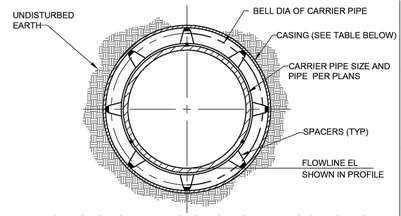
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CASING NOTES:

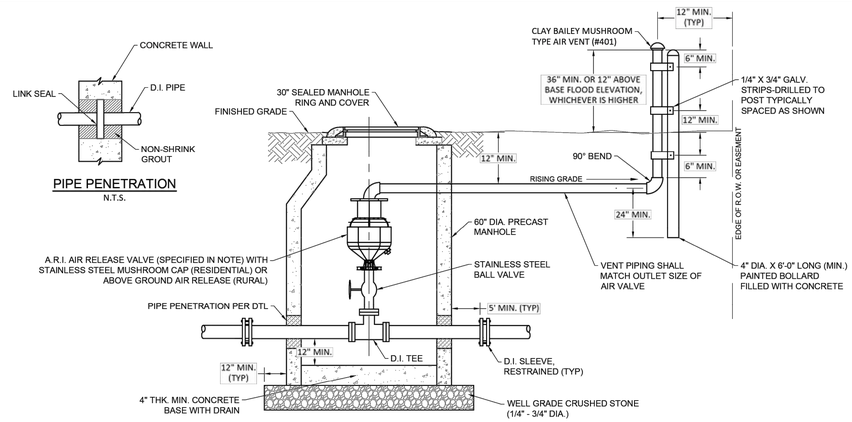
1. CASING MATERIAL SHALL BE STEEL PER TxDOT REQUIREMENTS AT ALL TxDOT ROAD CROSSINGS.
2. CASING MATERIAL SHALL BE SDR-26/PS115 PVC AT ALL OTHER CROSSINGS UNLESS SPECIFICALLY REQUIRED BY MSUD ENGINEER.
3. CASING SIZE SHALL BE PER THE TABLE PROVIDED HEREON.
4. CASING SPACERS SHALL BE USED TO INSTALL CARRIER PIPE INSIDE THE ENCASEMENT PIPE. TO PROVIDE SUPPORT AROUND THE PERIPHERY OF THE PIPE SHOULD THE PIPE TWIST AS IT IS PUSHED THROUGH THE CASING, THE SPACERS SHALL BE OF A PROJECTION TYPE THAT HAS A MINIMUM NUMBER OF PROJECTIONS AROUND THE CIRCUMFERENCE TOTALING THE NUMBER OF DIAMETER INCHES. FOR EXAMPLE, 8" PIPE SHALL HAVE A MINIMUM OF 8 PROJECTIONS AND 18" PIPE SHALL HAVE A MINIMUM NUMBER OF 18 PROJECTIONS.
5. CASING SPACERS SHALL HAVE A MAXIMUM SPACING SPAN OF 5 FEET. THE SPAN BETWEEN SPACERS SHOULD RESULT IN CONSERVATIVE LONG-TERM SAFETY FACTOR PROVIDED TOTAL LOAD PER SPACERS DOES NOT EXCEED THE MAXIMUM LOAD FOR PIPE FULL OF LIQUID PER SPACER LISTED IN THE LITERATURE FOR CLASS SPACER USED. SPACERS SHALL HAVE A MINIMUM HEIGHT THAT CLEARS THE PIPE BELL OR AS OTHERWISE INDICATED ON PLANS. CASING SPACERS SHALL USE DOUBLE BACKED TAPE PROVIDED WITH THE SPACERS, TO FASTEN TIGHTLY ONTO THE CARRIER PIPE, SO THAT THE SPACERS DO NOT MOVE DURING INSTALLATION.
6. SPACERS SHALL BE RACI HIGH DENSITY POLYETHYLENE OR AS APPROVED BY MSUD ENGINEER.

TYPICAL WATER PIPE CASING DETAIL
(AT ROADWAYS AND/OR STORM DRAIN CROSSINGS)
N.T.S.



TYPICAL SECTION WITH CASING INSULATING SPACERS
N.T.S.

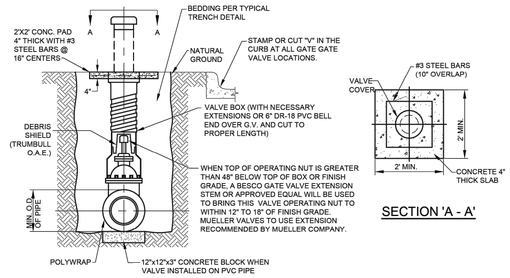
CASING SCHEDULE	
WATER LINE NOMINAL SIZE (IN)	CASING NOMINAL SIZE (IN)
2	4
4	8
6	10
8	16
10	18
12	24
14 & 16	24
18	30
20	30
24	36
27	36
30	42
36	48



NOTES:

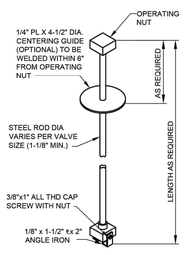
1. VENT PIPING SHALL BE GALVANIZED STEEL.
2. RIM ELEVATION SHALL BE SET 12" ABOVE FINISHED GRADE UNLESS INSTALLED IN PAVED AREA
3. DETAIL APPLIES TO WATER MAINS AND SANITARY SEWER FORCE MAIN.
4. FOR FORCE MAIN APPLICATIONS, DUCTILE IRON PIPE AND FITTINGS SHALL BE PROTECTOR P401 LINED.
5. A.R.I. D-040-C AIR RELEASE VALVE WITH IRON BODY REQUIRED

COMBINATION AIR RELEASE VALVE AND VAULT DETAIL
N.T.S.

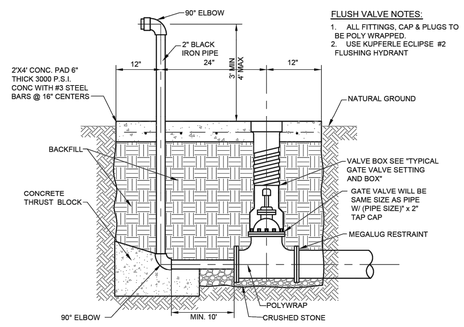


TYPICAL VALVE SETTING AND BOX
N.T.S.

SECTION 'A - A'



VALVE EXTENSION STEM
N.T.S.



FLUSH VALVE NOTES:

1. ALL FITTINGS, CAP & PLUGS TO BE POLY WRAPPED.
2. USE KUPFERLE ECLIPSE #2 FLUSHING HYDRANT

END-OF-LINE/TEMPORARY, RESIDENTIAL, & MAIN LINE FLUSH VALVES
N.T.S.

NO.	REVISION	BY	DATE

MUSTANG SPECIAL UTILITY DISTRICT

APPROVED BY MSUD
GENERAL MANAGER: C. BOYD DATE: 2020-09-14

WATER DETAILS (2 OF 2)

CERTIFICATION:
THIS MUSTANG SPECIAL UTILITY DISTRICT STANDARD DETAIL SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THIS ENGINEER IS ALSO CERTIFYING THAT THE CONTENT OF THE DETAILS AND NOTES ON THIS SHEET HAVE NOT BEEN ALTERED FROM THAT RECEIVED FROM MUSTANG SPECIAL UTILITY DISTRICT.

NOTE:
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DATE | REVISIONS | No.

Kimley»Horn

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WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928



SCALE: AS SHOWN
DESIGNED BY: MMM
DRAWN BY: CBM
CHECKED BY: MMM

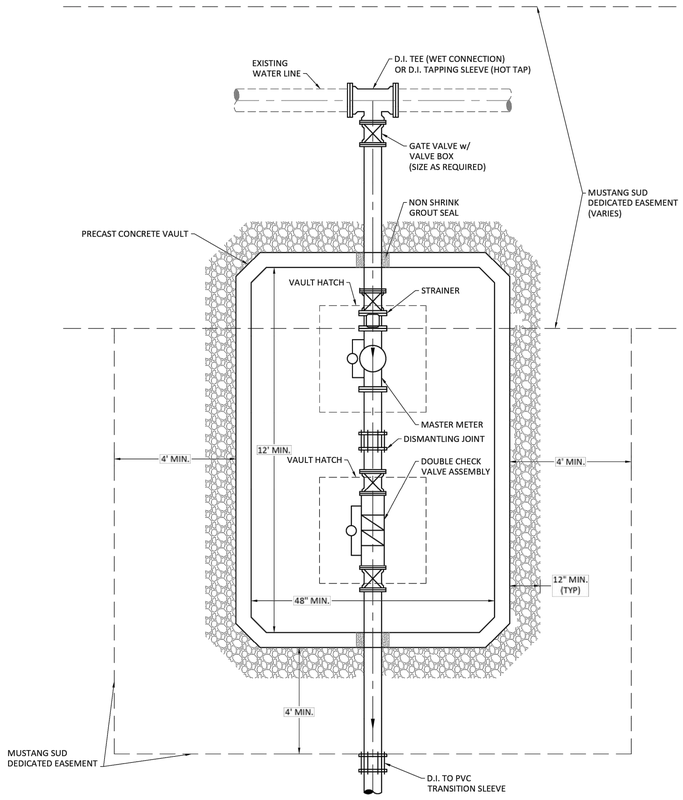
MUSTANG SPECIAL UTILITY DETAILS

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE: 07/25/2024
PROJECT NO.: 069225635
SHEET NUMBER: C-9.2

Plotted By:Mukendi, Zoe Date:July 25, 2024 03:54:00pm File Path:K:\DNT_Civil\069225635 - Dutch Bros CMG\Cad\PlanSheets\Chipotle\C-Const-Detl-Chipotle.dwg
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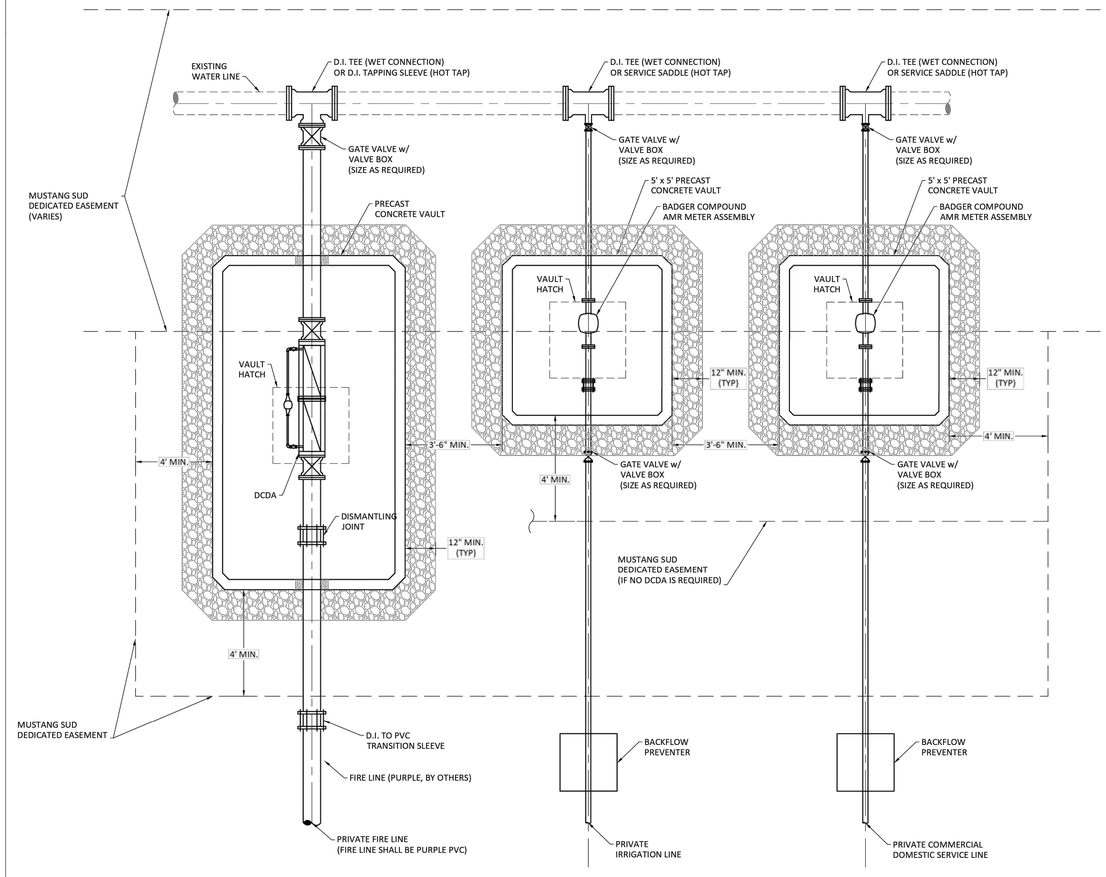
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NOTES:

1. ALL WORK NOT SPECIFICALLY IDENTIFIED AS BEING SUPPLIED BY MUSTANG S.U.D. SHALL BE COMPLETED AT OWNER'S EXPENSE.
2. SIZE ON SIZE HOT TAPS SHALL NOT BE ALLOWED.
3. CONCRETE VAULTS SHALL BE EQUAL TO THAT AS DESIGNED AND MANUFACTURED BY CAPITAL PRECAST, INC.
4. CONCRETE VAULT LID AND HATCHES SHALL BE TRAFFIC RATED.
5. VAULT HATCHES SHALL BE 42"x42" ALUMINUM WITH LIFT ASSIST, SLAM LOCK AND SAFETY NET/GRATE.
6. MASTER METER SHALL BE BADGER RECORDALL.
7. MASTER METER SHALL BE EQUIPPED WITH AN AMR/AMI REMOTE METER READING SYSTEM AS MANUFACTURED BY BADGER METER COMPATIBLE FOR USE WITH THE SPECIFIED METER. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, ELECTRICAL AND SERVICE REQUIRED FOR A COMPLETE, OPERATING SYSTEM.
8. DOUBLE CHECK VALVE ASSEMBLY SHALL BE WATTS 775 OR APPROVED EQUAL.
9. CONCRETE VAULT SHALL HAVE NO BOTTOM.
10. VAULT SHALL BE SET ON 12" OF 1"-2"Ø WASHED GRAVEL.
11. VAULT SHALL BE MINIMUM 72" DEEP AND INCLUDE AN ALUMINUM OR STAINLESS STEEL LADDER WITH SAFETY EXTENSION.
12. VAULTS LIDS SHALL BE 6" TO 12" ABOVE FINISHED GRADE IN UNPAVED AREAS.
13. CLEARANCE BETWEEN PIPING AND VAULT FLOOR SHALL BE 12" MINIMUM.
14. ADJUSTABLE PIPE SUPPORTS SHALL BE PROVIDED UNDER THE MASTER METER AND CHECK VALVE ASSEMBLY.
15. ALL MECHANICAL JOINT FITTINGS SHALL BE MECHANICALLY RESTRAINED WITH MEGA-LUG OR EQUAL.
16. ALL PIPING THROUGH THE VAULT SHALL BE DUCTILE IRON.

MASTER METER WITH DOUBLE CHECK INSTALLATION
N.T.S.



NOTES:

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2. CONCRETE VAULTS SHALL BE EQUAL TO THAT AS DESIGNED AND MANUFACTURED BY CAPITAL PRECAST, INC.
3. VAULT SIZE MAY VARY DEPENDING UPON METER SIZE.
4. MUSTANG S.U.D. SHALL SUPPLY METERS UP TO 2".
5. MUSTANG S.U.D. SHALL SUPPLY A CHECK VALVE FOR RESIDENTIAL METERS ONLY.
6. MUSTANG S.U.D. DOES NOT SUPPLY ANY TYPE OF DOUBLE CHECK DETECTOR ASSEMBLY (DCDA).
7. DCDA SHALL BE WATTS 774 OR 757 OR APPROVED EQUAL.
8. ALL MECHANICAL JOINT FITTINGS SHALL BE MECHANICALLY RESTRAINED WITH MEGA-LUG OR EQUAL.
9. SIZE ON SIZE HOT TAPS SHALL NOT BE ALLOWED.
10. VAULT HATCHES SHALL BE 42"x42" ALUMINUM WITH LIFT ASSIST, SLAM LOCK AND SAFETY NET/GRATE.
11. VAULTS LIDS SHALL BE 6" TO 12" ABOVE FINISHED GRADE IN UNPAVED AREAS.
12. CLEARANCE BETWEEN PIPING AND VAULT FLOOR SHALL BE 12" MINIMUM.
13. DCDA VAULT SHALL BE MINIMUM 72" DEEP AND INCLUDE AN ALUMINUM OR STAINLESS STEEL LADDER WITH SAFETY EXTENSION.
14. CONCRETE VAULTS SHALL HAVE NO BOTTOM.
15. VAULT SHALL BE SET ON 12" OF 1"-2" Ø WASHED GRAVEL.
16. ALL PIPING THROUGH DCDA VAULT SHALL BE DUCTILE IRON.
17. SUMP-HOLE REQUIRED FOR PUMPING OUT VAULTS AS NEEDED
18. METERS SHALL BE BADGER E-SERIES.

DOUBLE CHECK DETECTOR ASSEMBLY, IRRIGATION AND COMMERCIAL DOMESTIC METER INSTALLATION
N.T.S.

NO.	REVISION	BY	DATE

MUSTANG SPECIAL UTILITY DISTRICT

APPROVED BY MSUD
GENERAL MANAGER: C. BOYD DATE: 2020-09-14

COMMERCIAL AND DCDA DETAILS

CERTIFICATION:
THIS MUSTANG SPECIAL UTILITY DISTRICT STANDARD DETAIL SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THIS ENGINEER IS ALSO CERTIFYING THAT THE CONTENT OF THE DETAILS AND NOTES ON THIS SHEET HAVE NOT BEEN ALTERED FROM THAT RECEIVED FROM MUSTANG SPECIAL UTILITY DISTRICT.

NOTE:
TOWN OF CROSSROADS DETAILS TAKE PRECEDENCE IN CITY R.O.W. AND EASEMENTS

Know what's **below.**
Call before you dig.

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THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION . IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE. CALL 811 AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN VICINITY.

No.	REVISIONS	DATE

Kimley»Horn
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100 WEST OAK STREET, SUITE 103, DENTON, TX 76201
PHONE: 940.287.3620
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928



SCALE
AS SHOWN
DESIGNED BY
MMM
DRAWN BY
CBM
CHECKED BY
MMM

MUSTANG SPECIAL UTILITY DETAILS

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

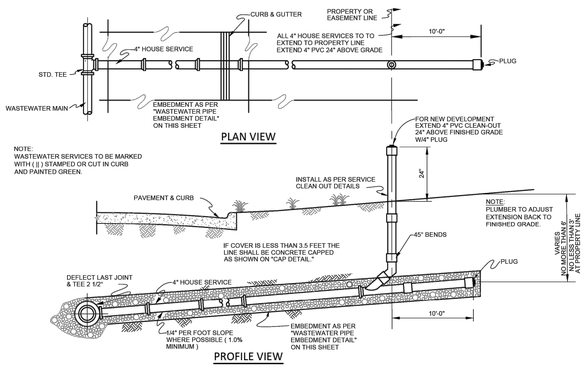
DATE
07/25/2024

PROJECT NO.
069225635

SHEET NUMBER
C-9.3

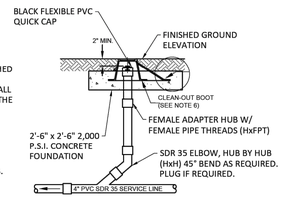
Plotted By: Mukendi Zoe Date: July 25, 2024 03:54:09pm File Path: K:\DNT_Civil\069225635 - Dutch Bros CMC\Cad\PlanSheets\Chipotle\C-Const-Det-Chipotle.dwg
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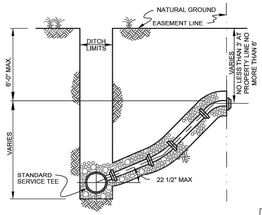


STANDARD WASTEWATER SERVICE CONNECTION
N.T.S.

WASTEWATER SERVICE CLEAN-OUT NOTES:
1. FOR NEW DEVELOPMENT EXTEND 4" PVC CLEAN-OUT 24" ABOVE FINISHED GRADE WITH 4" PLUG.
2. AT THE TIME OF SERVICE CONNECTION THE CLEAN-OUT EXTENTION SHALL BE ADJUSTED AND THE APPROPRIATE CLEAN-OUT BOOT INSTALLED AT THE FINISHED GROUND ELEVATION.
3. ALL FITTINGS SHALL BE SOLVENT WELD
4. ALL FITTINGS SHALL BE PVC SDR 35 OR SCHEDULE 40
5. CENTER LINE OF CLEAN-OUTS TO BE PLACED 6 INCHES INSIDE CITY RIGHT-OF-WAY LINE UNLESS SPECIFIED OTHERWISE.
6. USE CAST IRON SANITARY CLEAN-OUT BOOT UNDER PAVED SURFACES ONLY. USE POLYPROPYLENE CLEAN-OUT BOOT UNDER UNPAVED AREAS.

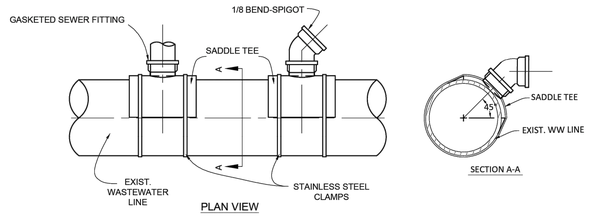


WASTEWATER SERVICE CLEAN-OUT DETAIL
N.T.S.



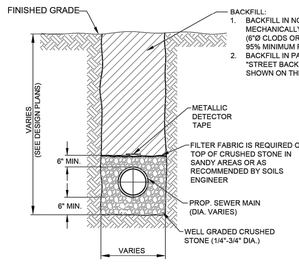
NOTE:
THE EXTENSION TO THE PROPERTY/EASEMENT LINE SHALL BE AS PER THE STANDARD "WASTEWATER SERVICE CONNECTION" DETAIL, ON THIS SHEET.

STANDARD DEEP CUT CONNECTION
N.T.S.



NOTES:
1. FLEXIBLE SADDLE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
2. SADDLE TEE SHALL BE ORIENTATED 45° TO MAIN.
3. EXCAVATE AROUND EXISTING 8-INCH PIPE, EXPOSING SUFFICIENT ROOM FOR S.S. CLAMPS.
4. THOROUGHLY CLEAN AND DRY THE MATING SURFACE WITH RAG OR PAPER TOWEL MAKE SURE THEY ARE FREE OF DUST AND MOISTURE.
5. MARK THE SIZE OF THE HOLE TO BE CUT USING THE GASKET SKIRT OR THE SADDLE ITSELF AS THE TEMPLATE.
6. SAW OUT THE SECTION OF THE PIPE WHERE THE SADDLE WILL BE LOCATED, WITH A SABER OR KEY HOLE SAW.
7. TEST TO MAKE SURE SADDLE FITS HOLE PROPERLY.
8. SERVICE PIPE SHALL NOT EXTEND MORE THAN ONE-HALF INCH INTO THE MAIN.
9. PLACE GASKET SKIRT AND SADDLE OVER OPENING AND TIGHTEN BAND CLAMPS EVENLY UNTIL SADDLE IS FIRMLY ATTACHED TO THE PIPE. APPLY PRESSURE ON THE SADDLE AGAINST THE PIPE WHILE TIGHTENING THE CLAMPS AS INDICATED ABOVE. DO NOT OVER TIGHTEN, DO NOT STRIP THREAD.
10. REPLACE THE BEDDING AND BACKFILL IN ACCORDANCE WITH THE TRENCH EMBEDMENT DETAIL.

GASKETED SEWER FITTING FOR SEWER SERVICE CONNECTIONS TO EXISTING MAINS
N.T.S.



TYPICAL PIPE EMBEDMENT
N.T.S.

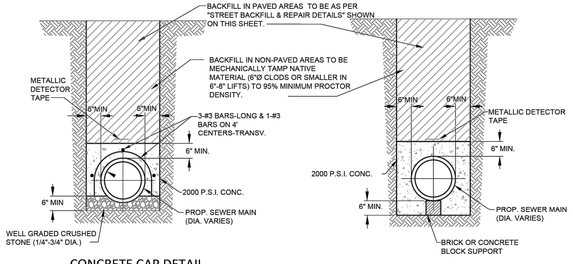
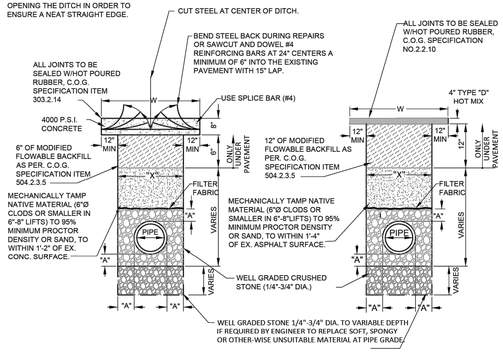


TABLE OF DIMENSIONS FOR WIDTH OF TRENCH AND PAVEMENT REPLACEMENT

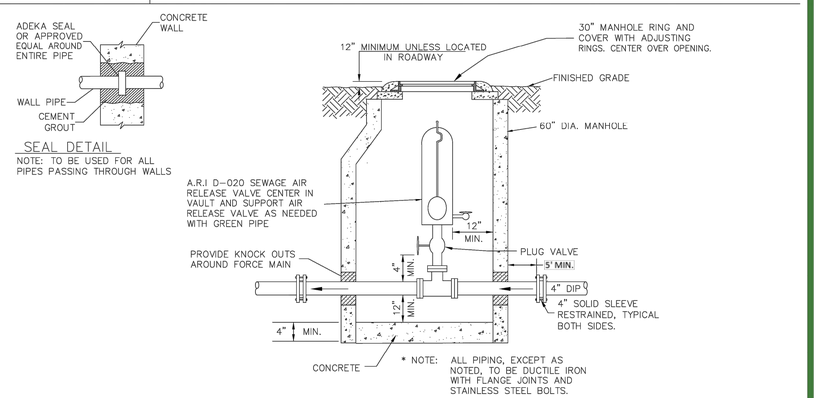
NORMAL SIZE OF PIPE IN INCHES	O.D. OF PIPEBELL IN INCHES (PVC-DR18)	MINIMUM TRENCH WALL CLEARANCE "A" IN INCHES	WIDTH OF TRENCH ('X')		WIDTH OF PVMT. REPLACEMENT *
			MAXIMUM ** IN INCHES	MINIMUM ** IN INCHES	('W') CONC& ASPHALT **
6	6.9	6	24	19	48
8	9.05	6	24	21	48
10	11.10	6	28	24	48
12	13.20	6	30	26	50
16+	VARIES	8	*	*	*

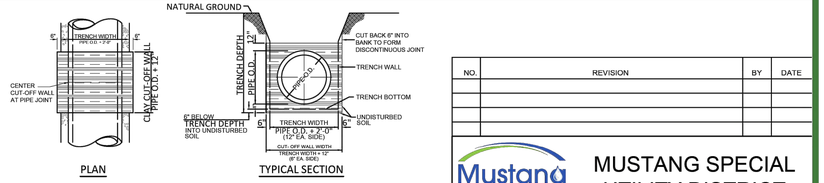
NOTE: * REFER TO THE PLANS FOR SPECIFIED WIDTH OF REPLACEMENT.
** RECOMMENDED WIDTHS - VARIES BASED ON DEPTH. AND SOIL MATERIAL.

NOTE:
SAWCUT TO REPAIR ASPHALT OR CONCRETE PAVEMENT PRIOR TO OPENING THE DITCH IN ORDER TO ENSURE A NEAT STRAIGHT EDGE.



STREET BACKFILL AND REPAIR
N.T.S.





CLAY CUT-OFF WALL
N.T.S.

CLAY CUT-OFF WALL NOTES:
1. CLAY CUT-OFF WALLS SHALL BE CONSTRUCTED AT 250 FOOT INTERVALS ALONG ALL WASTEWATER MAIN INSTALLATIONS BETWEEN MANHOLES.
2. THE CLAY CUT-OFF WALL SHALL BE PLACED AT THE MID POINT OF THE LENGTH OF THE PIPE BEING PLACED, BUT NOT AT A LOCATION WHERE A LATERAL OR SERVICE CONNECTS TO THE MAIN. THE MINIMUM CLEARING IS 10 FEET.
3. MATERIAL FOR CLAY CUT-OFF WALL TO BE CLEAN MATERIAL WITH NO LUMPS LARGER THAN 3". CLAY TO HAVE P.I. OF 30 TO 40. MATERIAL TO BE PLACED IN 6" LIFTS, MOISTENED TO OPTIMUM MOISTURE CONTENT AND COMPACTED WITH HAND HELD MECHANICAL TAMPERS, WITHOUT DAMAGING THE PIPE.

NOTE:
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NO.	REVISION	BY	DATE

MUSTANG SPECIAL UTILITY DISTRICT

APPROVED BY MSUD
GENERAL MANAGER: C. BOYD DATE: 2020-09-14

WASTEWATER DETAILS (1 OF 2)

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WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

07/25/2024

SCALE AS SHOWN
DESIGNED BY MMM
DRAWN BY CBM
CHECKED BY MMM

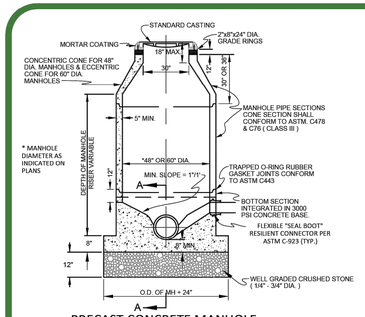
MUSTANG SPECIAL UTILITY DETAILS

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE 07/25/2024
PROJECT NO. 069225635
SHEET NUMBER C-9.4

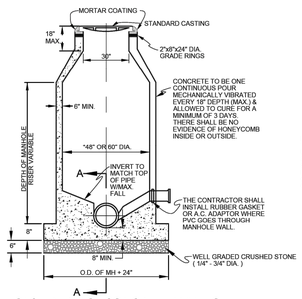
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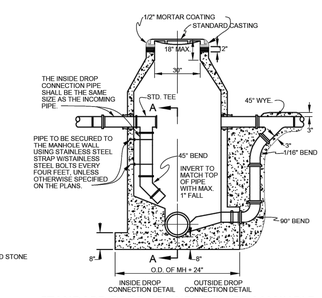
PRECAST CONCRETE MANHOLE

N.T.S.



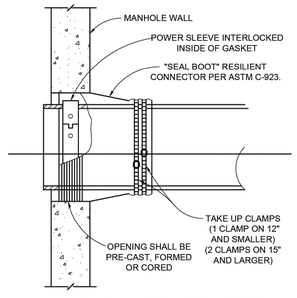
CAST IN PLACE CONCRETE MANHOLE

N.T.S.



STANDARD DROP CONNECTION TO MANHOLE

N.T.S.



FLEXIBLE "SEAL BOOT" CONNECTOR

N.T.S.

CONCRETE MANHOLE:

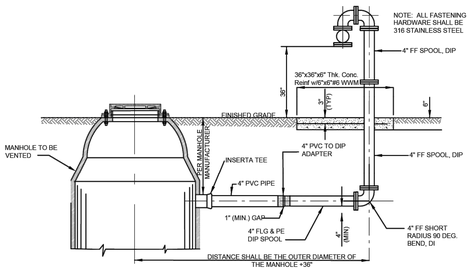
1. CONCRETE FOR ALL PRECAST AND POURED IN PLACE MANHOLES SHALL BE 6.5 SACK, 4200 P.S.I. SULPHATE RESISTANT CONCRETE.
2. THE DIAMETER OF THE CONCRETE BASE SHALL NOT BE LESS THAN THE OUTSIDE DIAMETER OF THE MANHOLE PLUS 2 FT.
3. STEPS SHALL NOT BE I NSTALLED IN MANHOLE.
4. ALL NEW MANHOLES SHALL BE MARKED WITH "MH" STAMPED OR CUT IN THE CURB.
5. USE DROP CONNECTIONS WHEN CONNECTING LINE EXCEEDS 24" ABOVE THE MANHOLE FLOWLINE.
6. USE OUTSIDE DROP CO NNECTIONS ON ALL NEW MANHOLES.
7. USE INSIDE DROP CONNECTION ON EXISTING MANHOLES ONLY.
8. PROVIDE RAIN PANS INTEGRATED WITH RIM.
9. MANHOLES IN OFFSITE/UNPAVED AREAS SHALL BE SET WITH TOP OF MANHOLE 12" ABOVE FINISHED GRADE (CANNOT BE ACHIEVED WITH GRADE RINGS)
10. MANHOLES IN OFFSITE/UNPAVED AREAS ALL SHALL HAVE SEALED RING AND COVER AND MAINTAIN MINIMUM 12" CLEARANCE WITHOUT GRADE RINGS.

MANHOLE INVERT:

1. INVERT CHANNELS TO BE CONSTRUCTED FOR SMOOTH FLOW WITH NO OBSTRUCTIONS.
2. SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS PROVIDING FOR SMOOTH FLOW.
3. CHANNELS FOR FUTURE CONSTRUCTIONS (STUBS) SHALL BE CONSTRUCTED, FILLED WITH SAND, AND COVERED WITH 1" OF MORTAR.
4. SLOPE MANHOLE ITSELF WITH A 1:2 SLOPE FROM MANHOLE WALL TO CHANNEL.
5. INVERT SHALL BE A MINIMUM OF 1/2 THE DIAMETER OF THE LARGEST PIPE OR 4" DEEP.

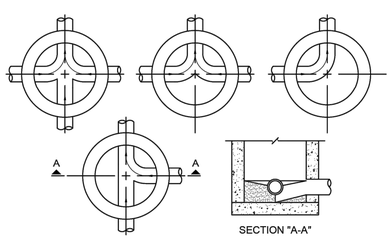
MANHOLE RING AND COVER:

1. MANHOLE LIDS SHALL HAVE PICK SLOTS ONLY.
2. MH RING & COVERS SHALL BE HEAVY DUTY LOAD RATED CONFORMING TO AASHTO M-306.



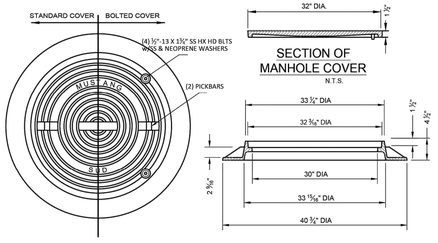
MANHOLE VENT DETAIL

N.T.S.



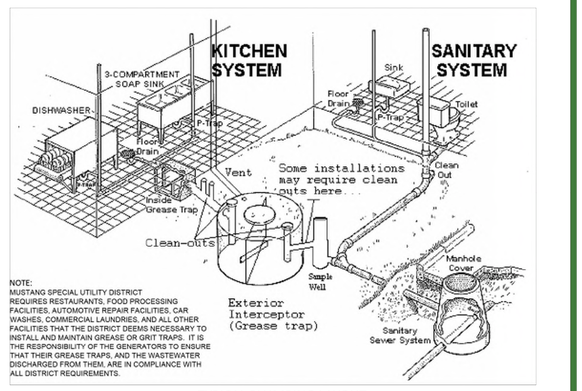
MANHOLE FLOOR PLAN

N.T.S.



MANHOLE RING AND COVER

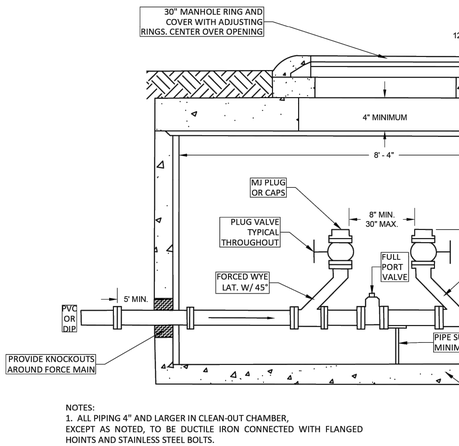
N.T.S.



NOTE:
MUSTANG SPECIAL UTILITY DISTRICT REQUIRES RESTAURANTS, FOOD PROCESSING FACILITIES, AUTOMOTIVE REPAIR FACILITIES, CAR WASHES, COMMERCIAL LAUNDRIES, AND ALL OTHER FACILITIES THAT THE DISTRICT DEEMS NECESSARY TO INSTALL AND MAINTAIN GREASE OR GRIT TRAPS. IT IS THE RESPONSIBILITY OF THE GENERATORS TO ENSURE THAT THEIR GREASE TRAPS, AND THE WASTEWATER DISCHARGED FROM THEM, ARE IN COMPLIANCE WITH ALL DISTRICT REQUIREMENTS.

TYPICAL PLUMBING LAYOUT

N.T.S.

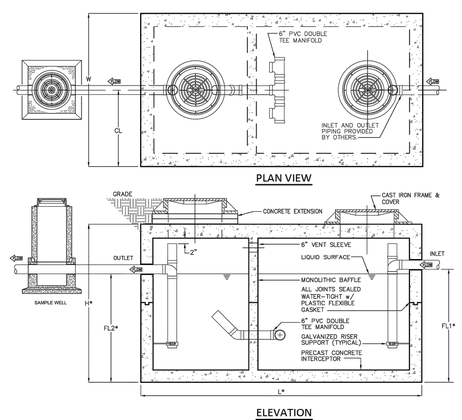


NOTES:
1. ALL PIPING 4" AND LARGER IN CLEAN-OUT CHAMBER, EXCEPT AS NOTED, TO BE DUCTILE IRON CONNECTED WITH FLANGED HOINTS AND STAINLESS STEEL BOLTS.

2. ALL VAULTS DEEPER THAN 5' MUST HAVE STAINLESS STEEL LADDER BOLTED IN PLACE.

TWO WAY FORCE MAIN CLEAN-OUT

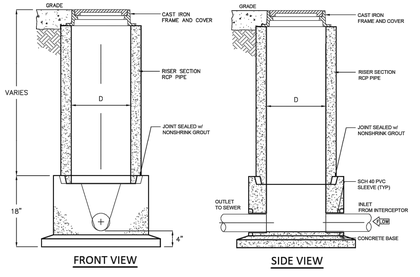
N.T.S.



* DIMENSIONS DETERMINED BY MANUFACTURER BASED ON FLOW REQUIREMENTS

TYPICAL GREASE TRAP AND SAMPLE WELL DETAILS

N.T.S.



NO.	REVISION	BY	DATE

MUSTANG SPECIAL UTILITY DISTRICT

APPROVED BY MSUD
GENERAL MANAGER: C. BOYD DATE: 2020-09-14

WASTEWATER DETAILS (2 OF 2)

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TEXAS REGISTERED ENGINEERING FIRM F-928

LICENSED PROFESSIONAL ENGINEER
MARK M. MAKENDI
140083
07/25/2024

SCALE: AS SHOWN
DESIGNED BY: MMM
DRAWN BY: CBM
CHECKED BY: MMM

MUSTANG SPECIAL UTILITY DETAILS

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE
07/25/2024

PROJECT NO.
069225635

SHEET NUMBER
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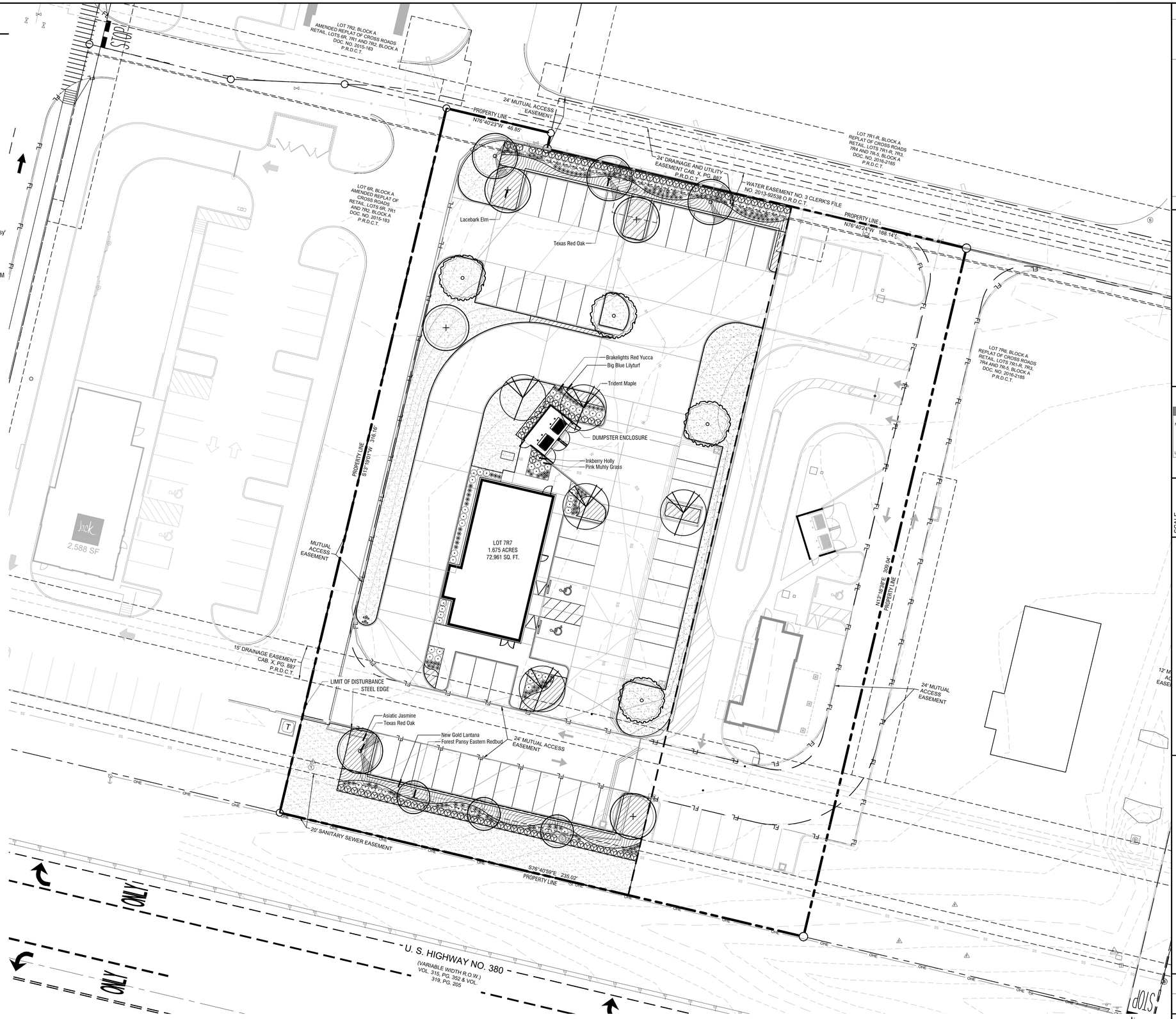
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PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME
TREES	
	Cedar Elm / Ulmus crassifolia
	Lacebark Elm / Ulmus parvifolia
	Texas Red Oak / Quercus texana
	Trident Maple / Acer buergerianum
ORNAMENTAL TREES	
	Forest Pansy Eastern Redbud / Cercis canadensis 'Forest Pansy'
SHRUBS	
	Brakelights Red Yucca / Hesperaloe parviflora `Brakelights` TM
	Inkberry Holly / Ilex glabra
	Pink Muhly Grass / Muhlenbergia capillaris

SYMBOL	COMMON / BOTANICAL NAME
GROUND COVERS	
	Asiatic Jasmine / Trachelospermum asiaticum
	Bermuda Grass / Cynodon dactylon
	Big Blue Lilyturf / Liriope muscari `Big Blue`
	New Gold Lantana / Lantana x 'New Gold'

SYMBOL	COMMON/ BOTANICAL NAME
MISCELLANEOUS	
	Shredded Hardwood Mulch
	Steel Edge



PLANTING PLAN

Scale: 1" = 20'-0"

A

No.	REVISIONS	DATE

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P.L.A.
MARIE E. ROBIRDS
L.A. No. 3369 Date 6/13/2024

SCALE
AS SHOWN
DESIGNED BY
MMS
DRAWN BY
MMS
CHECKED BY
MER

PLANTING PLAN

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS
TEXAS

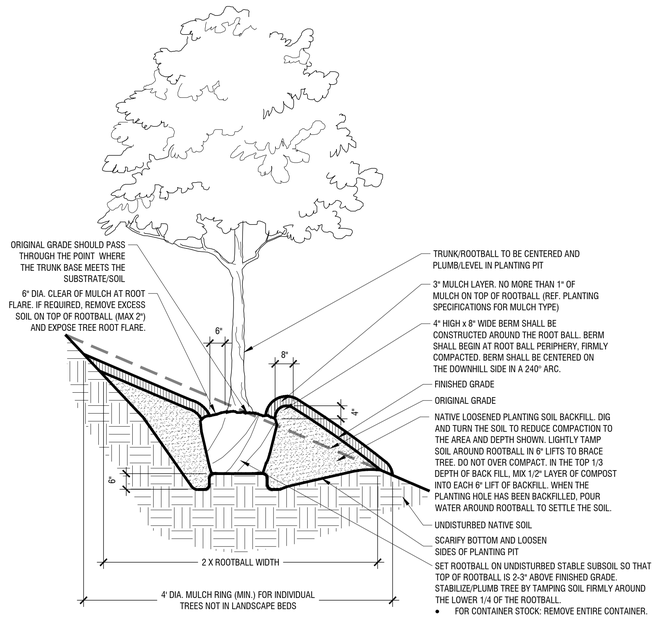
DATE
06/04/2024

PROJECT NO.
069225635

SHEET NUMBER
L1.01

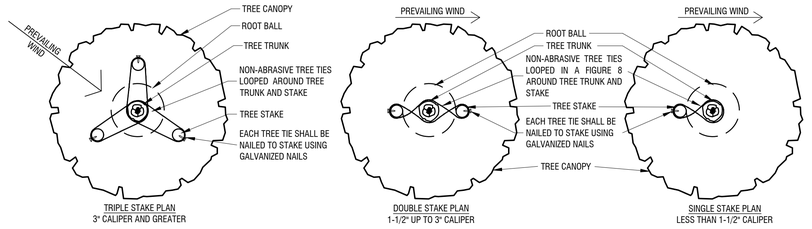
Plotted By:Coup, Sam Date:June 13, 2024 04:08:43pm File Path:K:\WAN_LA\PA_Projects\069225635 - Dutch Bros CMG Chipotle\CAD\Sheets\CIVIL\L1.01 Planting Plans.dwg
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NOTES:
1. REF. PLANTING AND PLANTING SOIL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. REF. TREE STAKING DETAIL THIS SHEET.

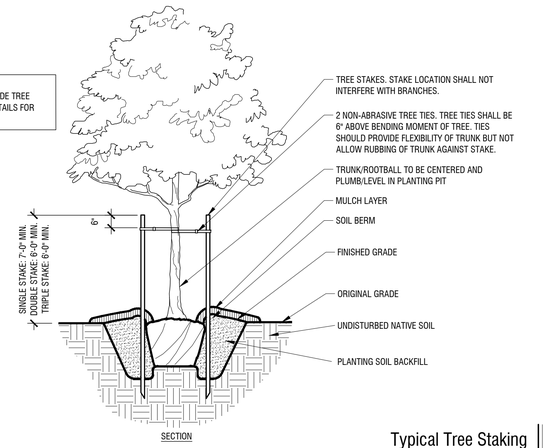


Tree Planting On 5-25% Slopes (20:1 to 4:1 Slopes) **D**

Scale: NTS



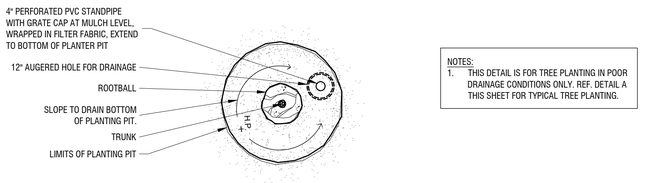
NOTES:
1. THIS DETAIL IS FOR ABOVE GRADE TREE STAKING ONLY. REF. OTHER DETAILS FOR TYPICAL TREE PLANTING.



SECTION

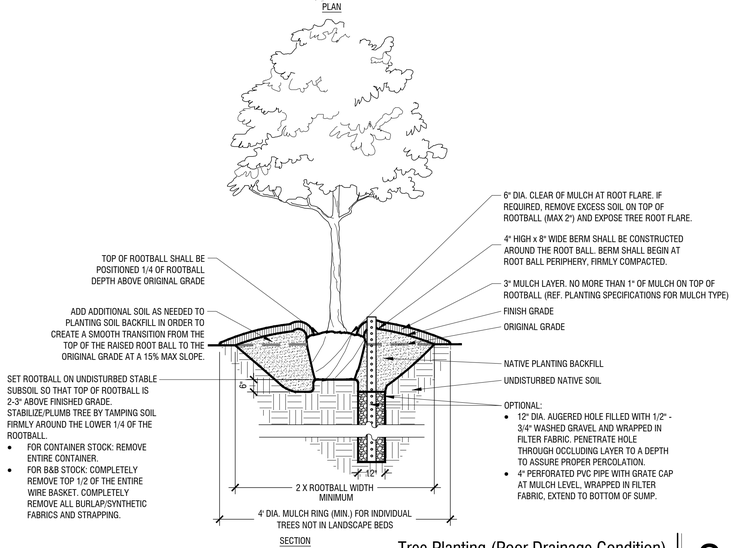
Typical Tree Staking **B**

Scale: NTS



PLAN

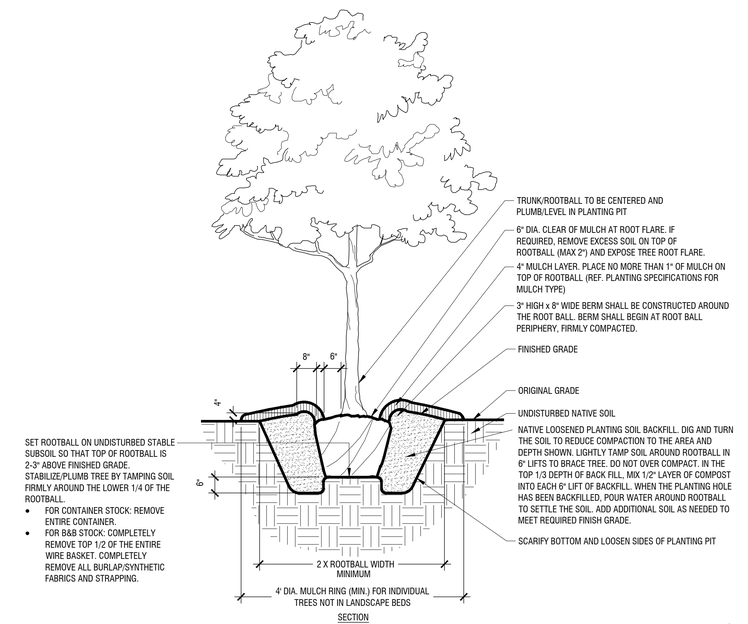
NOTES:
1. THIS DETAIL IS FOR TREE PLANTING IN POOR DRAINAGE CONDITIONS ONLY. REF. DETAIL A THIS SHEET FOR TYPICAL TREE PLANTING.



SECTION

Tree Planting (Poor Drainage Condition) **C**

Scale: NTS



SECTION

Typical Tree Planting (Up to 3" Caliper) **A**

Scale: NTS

No.	REVISIONS	DATE

Kimley»Horn
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TEXAS REGISTERED ENGINEERING FIRM F-928

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Kimley»Horn
P.E.A.: MARIE E. ROBURDS
L.A. No. 3369 Date 6/13/2024

SCALE AS SHOWN
DESIGNED BY MMS
DRAWN BY MMS
CHECKED BY MER

PLANTING DETAILS

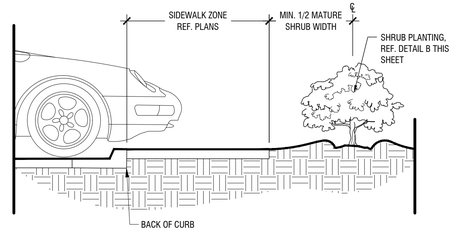
CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE 06/04/2024
PROJECT NO. 069225635
SHEET NUMBER L1.02

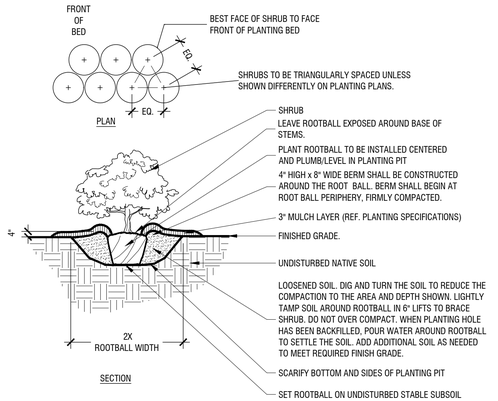
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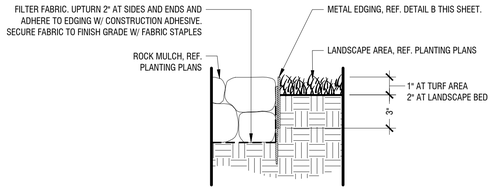
NOTES:
1. REF. PLANTING AND PLANTING SOIL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. REF. PLANTING SCHEDULE AND PLANTING PLANS FOR SPACING/LAYOUT
3. WHEN SHRUBS ARE MASSED TOGETHER WITH GROUNDCOVER BEDS, ALL SOIL IN BED TO BE AMENDED. (REF. PLANTING SPECIFICATIONS)



Shrub Planting at Sidewalk | F
Scale: NTS

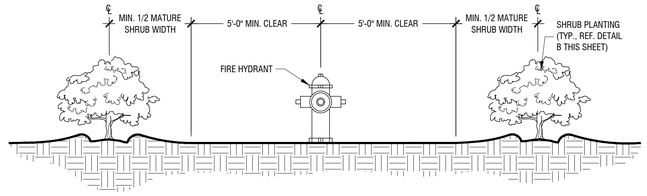


Typical Shrub Planting | B
Scale: NTS

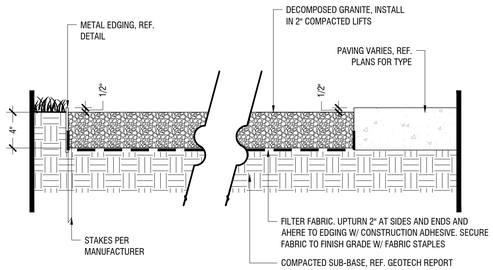


NOTES
1. EDGING SHALL NOT BE INSTALLED ADJACENT TO SIDEWALKS.
2. WHERE EDGING TERMINATES AT A SIDEWALK, BEVEL OR RECESS ENDS TO PREVENT TRIP HAZARDS.

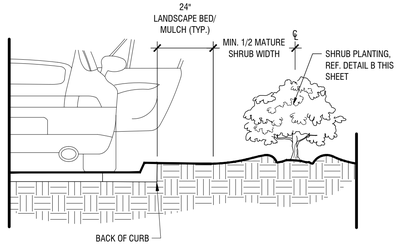
METAL EDGING (AT ROCK COBBLE BED) | J
Scale: 1 1/2" = 1'-0"

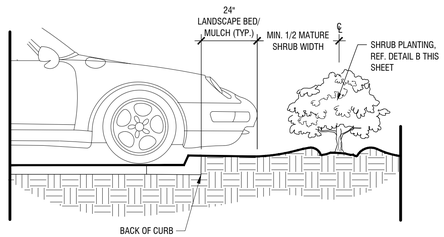


Shrub Planting at Fire Hydrant | E
Scale: NTS

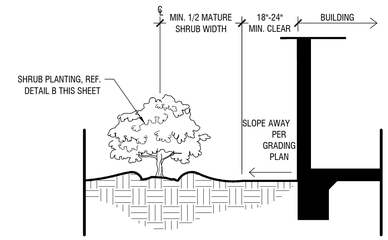


Decomposed Granite | I
Scale: 1 1/2"=1'-0"

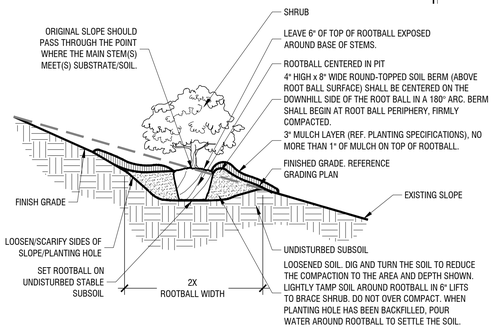




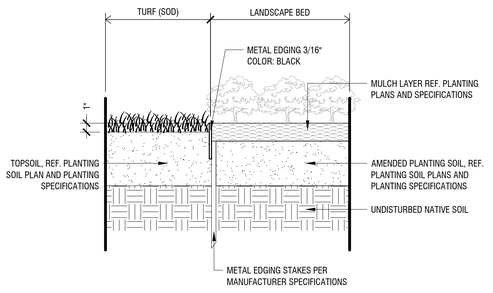
Shrub Planting at Curb | G
Scale: NTS



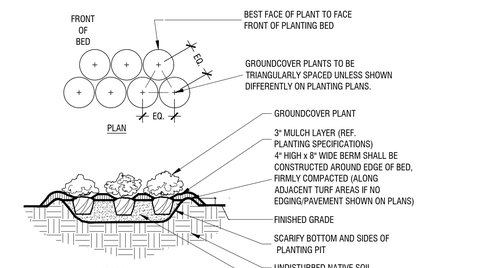
Shrub Planting at Building Edge | D
Scale: NTS



Shrub Planting On 5-50% (20:1 TO 2:1) Slope | C
Scale: NTS



METAL EDGING (AT TURF & LANDSCAPE BED) | H
Scale: 1 1/2" = 1'-0"



Typical Groundcover Planting | A
Scale: NTS

No.	REVISIONS	DATE

Kimley»Horn
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MARIE E. ROBORDS
P.L.A. _____ Date _____ 6/13/2024
L.A. No. 3369

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PLANTING DETAILS

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS
TEXAS

DATE
06/04/2024
PROJECT NO.
069225635
SHEET NUMBER
L1.03

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.	SIZE	SPACING	QTY	REMARKS
TREES						
	Cedar Elm / Ulmus crassifolia	3" cal	12`-14`		4	B&B, NURSERY GROWN, MATCHED, FULL, WELL-BRANCHED, STRONG CENTRAL LEADER
	Lacebark Elm / Ulmus parvifolia	3" cal	14`-16`		4	B&B, NURSERY GROWN, MATCHED, FULL, WELL-BRANCHED
	Texas Red Oak / Quercus texana	3" cal	14`-16` ht		4	B&B, NURSERY GROWN, MATCHED, FULL, WELL-BRANCHED, STRONG CENTRAL LEADER
	Trident Maple / Acer buergerianum	3" cal	12`-14` ht		5	B&B, NURSERY GROWN, MATCHED, FULL, WELL-BRANCHED, STRONG CENTRAL LEADER
ORNAMENTAL TREES						
	Forest Pansy Eastern Redbud / Cercis canadensis 'Forest Pansy'	3" cal	8`-10` ht		3	CONTAINER, NURSERY GROWN, MATCHED, FULL, WELL-BRANCHED
SHRUBS						
	Brakelights Red Yucca / Hesperaloe parviflora `Brakelights` TM	3 gal	18" h X 18" w	24" OC	161	CONTAINER, NURSERY GROWN, MATCHED AND WELL ROOTED
	Inkberry Holly / Ilex glabra	3 gal	24" h x 18" w	36" OC	105	CONTAINER, NURSERY GROWN, MATCHED AND WELL ROOTED
	Pink Muhly Grass / Muhlenbergia capillaris	3 gal	24" h x 18" w	30" OC	84	CONTAINER, NURSERY GROWN, MATCHED AND WELL ROOTED

SYMBOL	COMMON / BOTANICAL NAME	CONT.	SIZE	SPACING	QTY	REMARKS
GROUND COVERS						
	Asiatic Jasmine / Trachelospermum asiaticum	1 gal	12" h x 12" w	18" o.c.	466	CONTAINER, NURSERY GROWN, MATCHED AND WELL ROOTED
	Bermuda Grass / Cynodon dactylon	sod			8,712 sf	REFER TO SPECIFICATIONS
	Big Blue Lilyturf / Liriope muscari `Big Blue`	1 gal	12" h x 12" w	18" o.c.	170	CONTAINER, NURSERY GROWN, MATCHED AND WELL ROOTED
	New Gold Lantana / Lantana x 'New Gold'	1 gal	12" h x 12" w	18" o.c.	458	CONTAINER, NURSERY GROWN, MATCHED AND WELL ROOTED

SYMBOL	COMMON/ BOTANICAL NAME	REMARKS
MISCELLANEOUS		
	Shredded Hardwood Mulch	Min. 3" depth, trees in sod to receive 4' dia. mulch ring, dark brown in color
	Steel Edge	3/16", black

NOTE: PLANT QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. IN THE CASE OF A DISCREPANCY, THE DRAWING SHALL TAKE PRECEDENCE.

NOTE: PLANTS ARE SPECIFIED BY HEIGHT, SPREAD, AND CONTAINER SIZE. ALL PLANTINGS ARE EXPECTED TO MEET ALL SPECIFICATIONS PROVIDED.

CROSSROADS, TX CODE:

Chipotle - Crossroads, TX Landscape Requirement and Calculation		
Site Data	**AC**	**SF**
Total Site Area	1.7	72,963
Area of Disturbance	1.1	48,684
Landscape Area Requirements	**Required**	**Provided**
At least 15% of total site are must be landscaped	15%	19%
	10945 sf	13,887 sf
Perimeter Landscaping Requirements	**Required**	**Provided**
Parking lot/shared parking lots to include 10' wide landscape edge in areas adjacent to any street right of way and adjacent non residental property	Yes	Yes
North Landscape Edge 1 Tree/500SF = 3 Trees (1,397SF)	3	3
South Landscape Edge 1 Tree/500Sf = 3 Trees (1,341SF)	3	3
Interior Landscaping Requirements	**Required**	**Provided**
At least 7% of each Parking lot containing more than 20 spaces shall be landscaped, & at least one tree shall be planted in each interior landscape area	14	14
Tree Requirements	**Required**	**Provided**
Trees shall be planted no closer than 5' from paved surface	Yes	Yes
Trees shall not be planted within 15' or intersections, within 10' of private drives, fire hydrants, or utility poles; or within 20' of light standards		
Large Trees shall be at least 3" DBH and at least 60% of the required trees shall be large trees.	60% Large	82% Large
Screening Requirements	**Required**	**Provided**
Off street service & loading areas must be screened from view by at least one of the following	Yes	Yes (screen wall and vegetattive screening)
1. A masonry wall at least 6' high plus 1 Tree/ 30 LF of landscape edge		
2. Vegetative screening that will be at least 6' high in 2 years		
3. A berm and planting that will create a solid 6' high screen in years		

PLANTING NOTES:

1. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES, AND LINE RUNS IN THE FIELD PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE THE LANDSCAPE ARCHITECT OF ANY CONDITION FOUND ON THE SITE WHICH PROHIBITS INSTALLATION AS SHOWN ON THESE DRAWINGS.
3. ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY AND GROWING CONDITION AND MUST BE REPLACED WITH PLANT MATERIAL OF SAME VARIETY AND SIZE IF DAMAGED, DESTROYED, OR REMOVED.
4. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING AND REMOVAL OF DEBRIS PRIOR TO PLANTING IN ALL AREAS.
5. FINAL FINISH GRADING SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL TOPSOIL REQUIRED TO CREATE A SMOOTH CONDITION PRIOR TO PLANTING.
6. ALL PLANT QUANTITIES LISTED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE FULL COVERAGE IN ALL PLANTING AREAS AS SPECIFIED IN THE PLANT SCHEDULE AND VERIFY ALL QUANTITIES.
7. LANDSCAPE CONTRACTOR TO PROVIDE STEEL EDGING (REFER TO MATERIALS PAGE) BETWEEN ALL PLANTING BEDS AND LAWN AREAS.
8. ALL PLANT MATERIAL SHALL CONFORM TO THE SPECIFICATIONS AND SIZES GIVEN IN THE PLANT LIST AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK. LATEST EDITION AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS. ANY PLANT SUBSTITUTION SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PURCHASE.
9. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ANY COORDINATION WITH OTHER CONTRACTORS ON SITE AS REQUIRED TO ACCOMPLISH ALL PLANTING OPERATIONS.
10. ALL NEW PLANTING AREAS TO BE AMENDED PER SPECIFICATIONS.
11. ANY PLANT MATERIAL THAT DOES NOT SURVIVE SHALL BE REPLACED WITH AN EQUIVALENT SIZE AND SPECIES WITHIN THIRTY (30) DAYS.
12. PLANT MATERIAL SHALL BE PRUNED AS NECESSARY TO CONTROL SIZE BUT NOT TO DISRUPT THE NATURAL GROWTH PATTERN OR CHARACTERISTIC FORM OF THE PLANT EXCEPT AS NECESSARY TO ACHIEVE HEIGHT CLEARANCE FOR VISIBILITY AND PEDESTRIAN PASSAGE OR TO ACHIEVE A CONTINUOUS OPAQUE HEDGE IF REQUIRED.
13. LANDSCAPED AREAS SHALL BE KEPT FREE OF TRASH, WEEDS, DEBRIS, AND DEAD PLANT MATERIAL.
14. ALL LIME STABILIZED SOIL & INORGANIC SELECT FILL FOR BUILDING SHOULD BE REMOVED FROM PLANTING AREAS TO A DEPTH OF 24" & REPLACED WITH ORGANIC IMPORTED TOPSOIL FILL.
15. TREES OVERHANGING PEDESTRIAN WALKWAYS AND PARKING SHALL HAVE A 7' MINIMUM CLEAR TRUNK HEIGHT TO MEET ACCESSIBILITY STANDARDS. TREES OVERHANGING PUBLIC STREETS, DRIVE AISLES, AND FIRE LANES SHALL HAVE A 14' MINIMUM CLEAR TRUNK HEIGHT
16. CONTRACTOR TO PROVIDE 18 MONTH WARRANTY AFTER ALL CONSTRUCTION IS COMPLETE.

GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.

2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL PLANTING AREAS OF THIS CONTRACT UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, AND OTHER ITEMS OF CONSTRUCTION AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THIS CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS OPERATION OF EQUIPMENT, STOCKPILING OF MATERIALS, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE OR THE SPILLING OF OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED WHERE THE HEAT WILL DAMAGE ANY PLANT. TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/ OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS ($100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PER CENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

D. MATERIALS

1. GENERAL

SAMPLES OF MATERIALS AS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON THE SITE OR AS OTHERWISE DETERMINED BY THE OWNER. UPON APPROVAL OF SAMPLES, DELIVERY OF MATERIALS MAY BEGIN.

MATERIALS	SAMPLES
MULCH	ONE (1) CUBIC FOOT
TOPSOIL	ONE (1) CUBIC YARD
PLANTS	ONE (1) OF EACH VARIETY

2. PLANT MATERIALS

A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS AS STATED IN THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN. ALL PLANTS SHALL BE FRESHLY DUG, SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY UPON THE APPROVAL OF THE OWNER.

B. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

C. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER AS TO QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. TOPSOIL

1. ASTM D5268, NATURAL, FRIABLE, FERTILE, FINE LOAMY SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE TOPSOIL IN THE VICINITY THAT PRODUCES HEAVY GROWTH. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 7.4 PERCENT, FREE FROM SUBSOIL, OBJECTIONABLE WEEDS, LITTER, SODS, STIFF CLAY, STONES LARGER THAN 1-INCH IN DIAMETER, STUMPS, ROOTS, TRASH, HERBICIDES, TOXIC SUBSTANCES, OR ANY OTHER MATERIAL WHICH MAY BE HARMFUL TO PLANT GROWTH OR HINDER PLANTING OPERATIONS. TOP SOIL SHALL CONTAIN A MINIMUM OF THREE PERCENT ORGANIC MATERIAL.
2. SALVAGED OR EXISTING TOPSOIL: REUSE SUITABLE TOPSOIL STOCKPILED ON-SITE OR EXISTING TOPSOIL UNDISTURBED BY GRADING OR EXCAVATION OPERATIONS, CLEAN TOPSOIL OF ROOTS, PLANTS, SOD, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
3. VERIFY AMOUNT OF SUITABLE TOPSOIL STOCKPILED IF ANY, AND SUPPLY ADDITIONAL IMPORTED TOPSOIL AS NEEDED. FOUR (4) INCHES OF TOPSOIL TO BE PROVIDED FOR ALL TURF AREAS. TWENTY FOUR (24) INCHES OF TOPSOIL TO BE PROVIDED FOR ALL PLANTING AREAS WITHIN INTERIOR LANDSCAPE ISLANDS AND FOUNDATION PLANTINGS. FOR ALL OTHER PLANTING AREAS, TWELVE (12) INCHES OF TOPSOIL MINIMUM TO BE PROVIDED.
4. IMPORTED TOPSOIL: SUPPLEMENT SALVAGED TOPSOIL WITH IMPORTED TOPSOIL FROM OFF-SITE SOURCES WHEN EXISTING QUANTITIES ARE INSUFFICIENT.
5. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 6 INCHES DEEP; DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS, OR MARSHES.
6. VERIFY BORROW AND DISPOSAL SITES ARE PERMITTED AS REQUIRED BY STATE AND LOCAL REGULATIONS. OBTAIN WRITTEN CONFIRMATION THAT PERMITS ARE CURRENT AND ACTIVE.
7. OBTAIN PERMITS REQUIRED BY STATE AND LOCAL REGULATIONS FOR TRANSPORTING TOPSOIL. PERMITS SHALL BE CURRENT AND ACTIVE.
8. AMEND EXISTING AND IMPORTED TOPSOIL AS INDICATED BELOW.
   a. ORGANIC SOIL AMENDMENTS
      1. MANURE: WELL-ROTTED, UNLEACHED, STABLE OR CATTLE MANURE CONTAINING NOT MORE THAN 25 PERCENT BY VOLUME OF STRAW, SAWDUST, OR OTHER BEDDING MATERIALS; FREE OF TOXIC SUBSTANCES, STONES, STICKS, SOIL, WEED SEED, AND MATERIAL HARMFUL TO PLANT GROWTH.
      2. BACK TO NATURE COTTON BURR COMPOST OR APPROVED EQUIVALENT.
      3. COMPOST: DECOMPOSED ORGANIC MATERIAL INCLUDING LEAF LITTER, MANURE, SAWDUST, PLANT TRIMMINGS AND/OR HAY, MIXED WITH SOIL.
      4. PECAN HULLS: COMPOSTED PECAN HULLS FOR LOCAL SOURCE.
      5. BIOSOLIDS: USE GRADE 1 CONTAINING LOWER PATHOGEN LEVELS.
      6. WORM CASTINGS: EARTHWORMS.
   b. INORGANIC SOIL AMENDMENTS
      1. LIME: ASTM C602, CLASS O AGRICULTURAL LIMESTONE CONTAINING A MINIMUM OF 80 PERCENT CALCIUM CARBONATE EQUIVALENT WITH A MINIMUM OF 95 PERCENT PASSING NO. 8 SIEVE AND MINIMUM OF 55 PERCENT PASSING NO. 60 SIEVE.
      2. SULFUR: GRANULAR, BIODEGRADABLE, CONTAINING A MINIMUM OF 90 PERCENT SULFUR, WITH A MINIMUM OF 99 PERCENT PASSING NO. 6 SIEVE AND A MAXIMUM OF 10 PERCENT PASSING NO. 40 SIEVE.
      3. IRON SULFATE: GRANULATED FERROUS SULFATE CONTAINING A MINIMUM OF 20 PERCENT IRON AND 10 PERCENT SULFUR.
      4. AGRICULTURAL GYPSUM: FINELY GROUND, CONTAINING A MINIMUM OF 90 PERCENT CALCIUM SULFATE.
      5. SAND: CLEAN, WASHED, NATURAL OR MANUFACTURED, FREE OF TOXIC MATERIALS.
   c. PLANTING SOIL MIX
      1. PLANTING MIX MAY BE PROVIDED BY LIVING EARTH OR MINICK MATERIALS OR APPROVED EQUAL.
      2. PLANTING MEDIUM CONTAINING 75 PERCENT SPECIFIED TOPSOIL MIXED WITH 15 PERCENT ORGANIC SOIL AMENDMENTS AND 10 PERCENT SHARP WASHED SAND. INSTALL TO DEPTHS PER PLANTING DETAILS (12" MIN.) FINISHED GRADES OF PLANTING BEDS TO BE 2" BELOW FINISHED GRADE OF ADJACENT PAVING OR AS SHOWN ON GRADING PLAN.
      2. SOD/SEED AREA TOPSOIL
         ALL SOD AREAS TO RECEIVE 4" DEPTH (MIN) TOPSOIL PRIOR TO INSTALLATION. TOPSOIL SHALL BE NATURAL FRIABLE, FERTILE, WITH 25% (MIN.) ORGANIC MATERIAL, AND FREE OF TRASH, DEBRIS, STONES, WEEDS, AND TWIGS/BRANCHES. THE PARTICLE SIZES SHALL BE SUCH THAT 98.5% OF THE TOPSOIL WILL PASS THROUGH A 1/2 INCH SCREEN, AND 99% MORE SHALL PASS THROUGH A 3/4 INCH SCREEN. TOPSOIL SHALL BE REVIEWED/APPROVED BY OWNER/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. CONTRACTOR TO SUBMIT SAMPLES IN 1 GAL (MIN.) CONTAINER.

I. WATER

WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE GROWTH OF PLANTS AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SUCH SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

J. COMMERCIAL FERTILIZER

COMMERCIAL FERTILIZER SHALL BE A COMPLETE FORMULA; IT SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING. THIS FERTILIZER SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED CONTAINERS, EACH BEARING THE MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS.

FIFTY PERCENT (50%) OF THE NITROGEN SHALL BE DERIVED FROM NATURAL ORGANIC SOURCES. THE FOLLOWING FERTILIZERS SHALL BE USED AND APPLIED AT RATES AS SUGGESTED BY MANUFACTURER'S SPECIFICATIONS:

1. SHRUBS AND TREES - MILORGANITE, OR APPROVED EQUAL
2. ANNUALS AND GROUNDCOVERS - OSMOCOTE/BERRA BLEND 14-14-14
3. SOD - 8-8-8 FERTILIZER

IN ADDITION TO SURFACE APPLIED FERTILIZERS, ALL CONTAINER GROWN AND FIELD GROWN PLANT MATERIAL SHALL RECEIVE "AGRIFORM" PLANTING TABLETS 24-10-5 FORMULA, 21 GRAM OR EQUAL. THESE TABLETS SHALL BE PLACED AT A DEPTH OF ROOT BALL AT THE RATE AS SPECIFIED BY MANUFACTURER.

K. MULCH

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF 3 INCHES. SEE PLANT LIST FOR TYPE OF MATERIAL AND GRADE.

L. DIGGING AND HANDLING

1. PROTECT ROOTS OR BALLS OF PLANTS AT ALL TIMES FROM SUN AND DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT BREAKAGE AND DRYING OUT DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTI-TRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.

3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. THE ROOTS SHALL NOT BE CUT FROM THE MINIMUM SPREAD SPECIFIED IN THE PLANT LIST. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT IN MOVING AND PRIOR TO PLANTING.

4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER DETAIL.

5. EXCAVATION OF TREE PITS SHALL BE DONE USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB- BASES.

M. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.

2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.

3. PLANT ROOTS BOUND IN CONTAINERS SHALL NOT BE ACCEPTABLE.

4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NOT BE PERMITTED UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE OWNER AND LANDSCAPE ARCHITECT.

N. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED ON THE PLANT LIST SCHEDULE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

O. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY REESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

P. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE BIDDERS TAKE OFF AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO THE SUBMISSION OF BIDS. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE

Q. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, UNLESS OTHERWISE NOTED.

2. THE LANDSCAPE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS.

R. PLANTING PROCEDURES

1. CLEANING-UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN UP WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OR OWNER. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.

2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER LINES, CABLE AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES.

3. SUBGRADE EXCAVATION: SITE CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36". SITE CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY SITE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, LANDSCAPE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT OR OWNER.

4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.

5. GENERAL: COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. PLANTS SHALL BE PROTECTED UPON ARRIVAL AT THE SITE BY BEING THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS SHALL NOT REMAIN UNPROTECTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE THE PLANTING WITH THE IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION ITEMS AND PLANTS.

7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL AS SPECIFIED HEREIN BEFORE (SECTION H). TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE PLANTING DETAIL THAT ADDRESSES THIS CONDITION. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURE AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.

8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.

9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION H OF THESE SPECIFICATIONS. IN ADDITION, EACH PLANTING PIT SHALL RECEIVE 21-GRAM "AGRIFORM" PLANTING TABLETS PER MANUFACTURER'S SPECIFICATIONS OR AS FOLLOWS:

- TWO (2) TABLETS PER 1 GAL. PLANT
- THREE (3) TABLETS PER 3 GAL. PLANT
- FOUR (4) TABLETS PER 10 GAL. PLANT
- LARGER MATERI

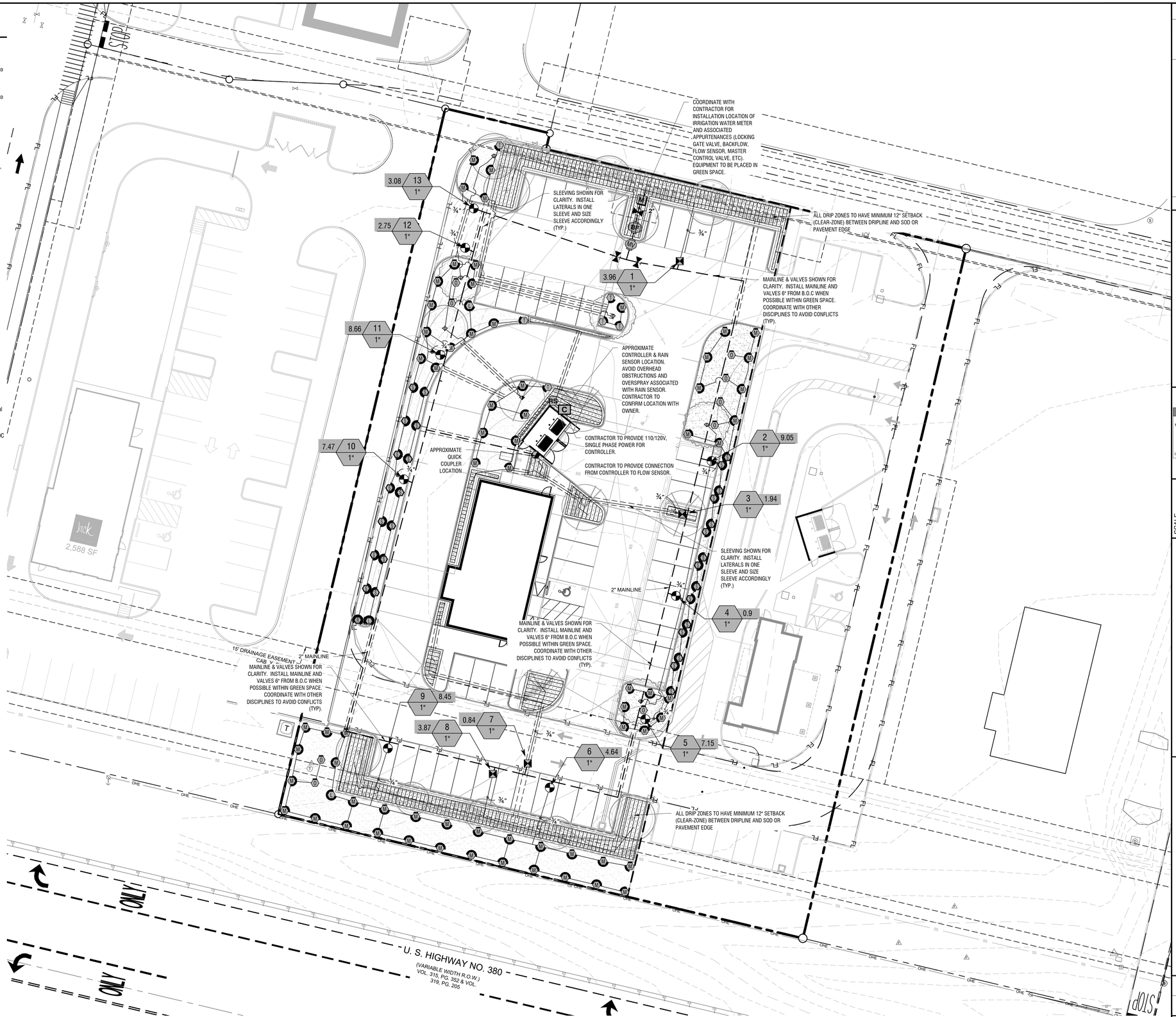
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP Corner PROS-04-PRS40-CV Turf Rotator, 4" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle. T=Turquoise adj arc 45-105 on PRS40 body.
LST SST RST	Hunter MP Strip PROS-04-PRS40-CV Turf Rotator, 4" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip.
	Hunter MP1000 PROS-04-PRS40-CV Turf Rotator, 4" pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
25 50 10 20	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICZ-101-25 Drip Control Zone Kit. 1in. ICV Globe Valve with 1in. HY100 filter system. Pressure Regulation: 25psi. Flow Range: 2 GPM to 20 GPM. 150 mesh stainless steel screen.
	Area to Receive Dripline Netafim TLCV-04-18 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.4 GPH emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. 17mm.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G 1in., 1-1/2in., 2in., and 3in. Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Toro 100-SLVLC One-Piece, 1" Single Lug Quick Coupler Valve with Vinyl Locking Cover.
	Shut Off Valve
MV	Hunter ICV-G 2" 1in., 1-1/2in., 2in., and 3in. Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
BF	Febco 825Y 2" Reduced Pressure Backflow Preventer
C	Hunter I2C-1600-PL 16 Station Outdoor Modular Controller. With one ICM-800 Module. Commercial Use. Plastic Cabinet.
RS	Hunter WR-CLIK Rain Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted.
M	Water Meter 2"
	Irrigation Lateral Line: PVC Class 200 SDR 21
	Irrigation Mainline: PVC Class 200 SDR 21
	Pipe Sleeve: PVC Schedule 40

Valve Callout



Kimley»Horn
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PHONE: 940.287.3020
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

No.	REVISIONS	DATE

PRELIMINARY
FOR REVIEW ONLY
Not for construction or permit purposes.
Kimley»Horn
P.L.A. MARIE E. ROBURDS
L.A. No. 3369 Date 6/13/2024

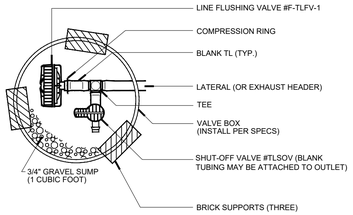
SCALE
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IRRIGATION PLAN

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS
TEXAS

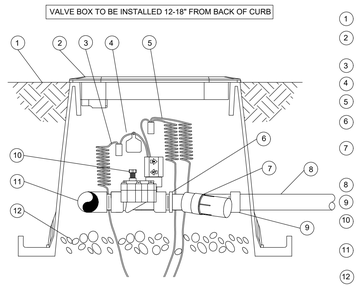
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06/04/2024
PROJECT NO.
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SHEET NUMBER
L2.01

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Line Flushing Valve (W/ Shut-off Valve) K

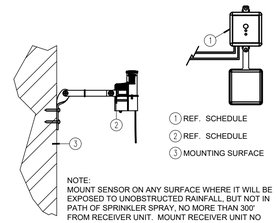
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1. FINISH GRADE
2. STANDARD VALVE BOX WITH COVER
3. WATERPROOF CONNECTION
4. VALVE ID TAG
5. 30-INCH LINEAR LENGTH OF WIRE, COILED
6. 1" X ¾" REDUCING COUPLING
7. PRESSURE REGULATING FILTER
8. LATERAL PIPE
9. PVC SCH 40 FEMALE ADAPTOR OR REDUCER
10. REMOTE CONTROL VALVE
11. PVC SCH 40 TEE OR ELL TO MANIFOLD
12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

Drip Control Zone Kit H

Scale: N.T.S.

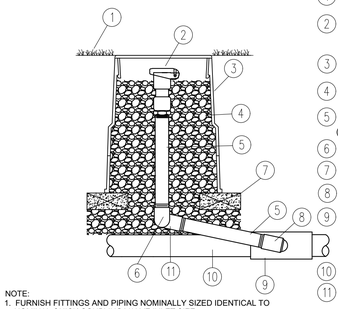


1. REF. SCHEDULE
2. REF. SCHEDULE
3. MOUNTING SURFACE

NOTE:
MOUNT SENSOR ON ANY SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN PATH OF SPRINKLER SPRAY, NO MORE THAN 300' FROM RECEIVER UNIT. MOUNT RECEIVER UNIT NO FURTHER THAN 6' FROM CONTROLLER.

Wireless Rain/Freeze Sensor D

Scale: N.T.S.

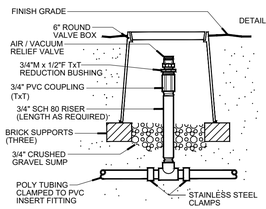


1. FINISH GRADE
2. QUICK-COUPLING VALVE TWO-PIECE BODY WITH 1 INCH INLET AND 1 INCH KEY OUTLET
3. VALVE BOX WITH COVER
4. 3/4" MINUS WASHED GRAVEL
5. PVC SCH 80 NIPPLE-1" (LENGTH AS REQUIRED)
6. PVC SCH 40 STREET ELL-1"
7. BRICK SUPPORTS (2)
8. PVC SCH 40 STREET ELL-1"
9. PVC SCH 40 TEE OR ELL X 1"
10. PVC MAINLINE PIPE
11. PVC SCH 40 ELL-1"

NOTE:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

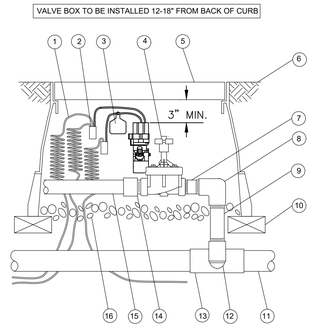
Quick Coupling Valve N

Scale: N.T.S.



Air/Vacuum Relief (Plumbed to Poly) J

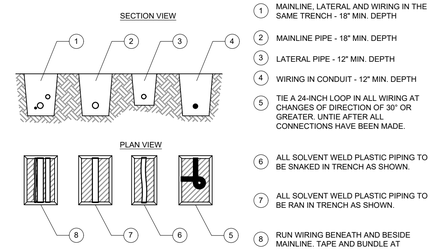
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1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION SPLICE-1 (1 OF 2)
3. ID TAG
4. REF. SCHEDULE
5. VALVE BOX WITH COVER
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

Electric Remote Control Valve G

Scale: N.T.S.

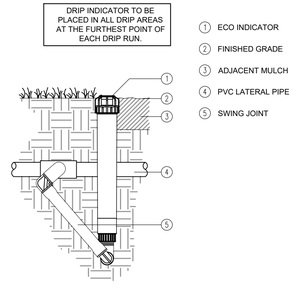


1. MAINLINE, LATERAL AND WIRING IN THE SAME TRENCH - 18" MIN. DEPTH
2. MAINLINE PIPE - 18" MIN. DEPTH
3. LATERAL PIPE - 12" MIN. DEPTH
4. WIRING IN CONDUIT - 12" MIN. DEPTH
5. TIE A 24-INCH LOOP IN ALL WIRING AT CHANGES OF DIRECTION OF 30° OR GREATER. UNTIE AFTER ALL CONNECTIONS HAVE BEEN MADE.
6. ALL SOLVENT WELD PLASTIC PIPING TO BE SNAKED IN TRENCH AS SHOWN.
7. ALL SOLVENT WELD PLASTIC PIPING TO BE RAN IN TRENCH AS SHOWN.
8. RUN WIRING BENEATH AND BESIDE MAINLINE. TAPE AND BUNDLE AT 10-FOOT INTERVALS.

NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCHD. 40 PVC TWICE THE DIAMETER OF THE PIPE OR WITH BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.

Pipe and Wire Trenching C

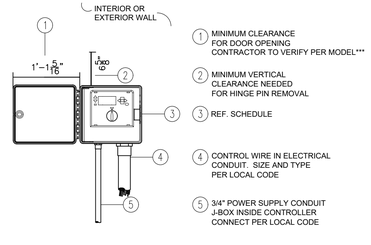
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1. ECO INDICATOR
2. FINISHED GRADE
3. ADJACENT MULCH
4. PVC LATERAL PIPE
5. SWING JOINT

ECO INDICATOR - SWING JOINT M

Scale: N.T.S.

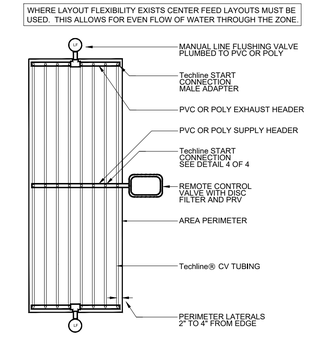


1. MINIMUM CLEARANCE FOR DOOR OPENING CONTRACTOR TO VERIFY PER MODEL***
2. MINIMUM VERTICAL CLEARANCE NEEDED FOR HINGE PIN REMOVAL
3. REF. SCHEDULE
4. CONTROL WIRE IN ELECTRICAL CONDUIT. SIZE AND TYPE PER LOCAL CODE
5. 3/4" POWER SUPPLY CONDUIT J-BOX INSIDE CONTROLLER CONNECT PER LOCAL CODE

NOTE
MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL
CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 or 220 VAC SOURCE.

Controller L

Scale: N.T.S.



ALL BARBED FITTINGS TO UTILIZE EITHER STAINLESS STEEL HOSE CLAMPS, STEEL CRIMP, OR COMPRESSION RING.

TECHLINE CV-MAXIMUM LENGTH OF A SINGLE LATERAL (FEET)												
TECHLINE DRIPPER SPACING	12"				18"				24"			
DRIPPER FLOW RATE (GPH)	0.26	0.4	0.6	0.9	0.26	0.4	0.6	0.9	0.6	0.9		
INLET PRESSURE (PSI)												
20	331	242	190	144	468	344	270	204	342	260		
25	413	302	238	180	584	429	338	257	430	326		
35	518	380	299	227	737	540	426	323	542	412		
45	594	436	343	260	845	620	489	371	622	472		
55	655	480	378	287	932	684	539	410	686	522		
60	681	580	393	298	969	713	561	426	716	544		

Techline CV Center Feed Layout I

Scale: N.T.S.



1. BUBBLER HEAD AS SPECIFIED
2. MALE ADAPTER
3. 9" LONG (12 GAUGE) WIRE STAPLE
4. 1/2" FLEX POLY (18" - 24" LONG) TO EXTEND TO TRUNK OF EACH TREE
5. REDUCER BUSHING AS REQUIRED
6. SCHEDULE 40 PVC TEE (S X S X S)
7. LATERAL LINE (CLASS 200 PVC)

Bubbler Assembly F

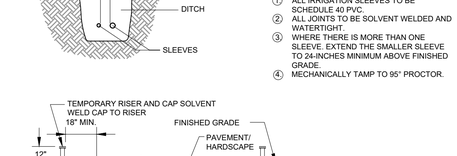
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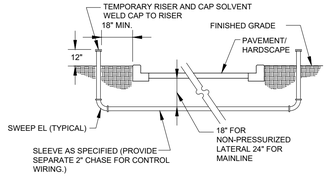
1. FINISH GRADE
2. REF. SCHEDULE
3. LATERAL TEE OR ELL
4. LATERAL PIPE
5. SWING JOINT: HUNTER PRO-FLEX" TUBING, HSBE-050 ELBOWS (2), & MARLEX STREET ELBOW (1)

MP Rotator Sprinkler E

Scale: N.T.S.



NOTES:
1. ALL IRRIGATION SLEEVES TO BE SCHEDULE 40 PVC.
2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
3. WHERE THERE IS MORE THAN ONE SLEEVE. EXTEND THE SMALLER SLEEVE TO 24-INCHES MINIMUM ABOVE FINISHED GRADE.
4. MECHANICALLY TAMP TO 95° PROCTOR.



Sleeve Detail B

Scale: N.T.S.

PVC PIPE SIZE	SOLVENT WELD SCH. 40 FITTINGS	BELL AND GASKET FITTINGS	SOCKETED PIPE
1/2"	2"	--	2"
3/4"	2"	--	2"
1"	2 1/2"	--	2 1/2"
1 1/4"	3"	--	3"
1 1/2"	3"	3"	3"
2"	4"	4"	4"
2 1/2"	6"	6"	6"
3"	6"	6"	6"
4"	8"	8"	8"

Sleeve Schedule A

Scale: N.T.S.

Plotted By:Cody, Sam Date:June 13, 2024 04:12:34pm File Path:K:\WKN_LALP_Projects\069225635 - Dutch Bros CMG Chipotle\CAD\Sheets\CIVIL\L2.02 Irrigation Details.dwg
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No.	REVISIONS	DATE

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Lic. MARIE E. ROBIRDS
Lic. No. 00226541 Date 6/13/2024

SCALE AS SHOWN
DESIGNED BY MMS
DRAWN BY MMS
CHECKED BY MER

IRRIGATION DETAILS

CHIPOTLE
CROSS ROADS RETAIL
LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

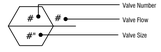
DATE 06/04/2024
PROJECT NO. 069225635
SHEET NUMBER L2.02

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter MP Corner PROS-04-PRS40-CV Turf Rotator, 4" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle. T=Turquoise adj arc 45-105 on PRS40 body.	6
LST SST RST	Hunter MP Strip PROS-04-PRS40-CV Turf Rotator, 4" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip.	31
M L R	Hunter MP1000 PROS-04-PRS40-CV Turf Rotator, 4" pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	78
25 50 10 20	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.	7

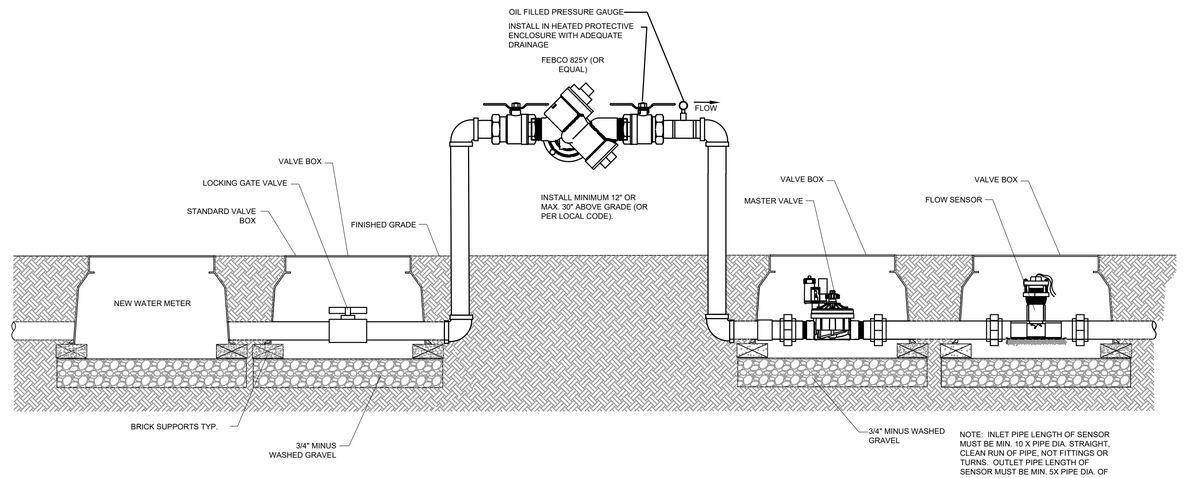
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICZ-101-25 Drip Control Zone Kit. 1in. ICV Globe Valve with 1in. HY100 filter system. Pressure Regulation: 25psi. Flow Range: 2 GPM to 20 GPM. 150 mesh stainless steel screen.	4
HOA AND CONTRACTOR	Area to Receive Dripline Netafim TLCV-04-18 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.4 GPH emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. 17mm.	2,373 l.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G 1in., 1-1/2in., 2in., and 3in. Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	9
	Toro 100-SLVLC One-Piece, 1" Single Lug Quick Coupler Valve with Vinyl Locking Cover.	1
	Shut Off Valve	3
MV	Hunter ICV-G 2" 1in., 1-1/2in., 2in., and 3in. Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	1
BF	Febco 825Y 2" Reduced Pressure Backflow Preventer	1
C	Hunter I2C-1600-PL 16 Station Outdoor Modular Controller. With one ICM-800 Module. Commercial Use. Plastic Cabinet.	1
RS	Hunter WR-CLIK Rain Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted.	1
M	Water Meter 2"	1
	Irrigation Lateral Line: PVC Class 200 SDR 21	2,539 l.f.
	Irrigation Mainline: PVC Class 200 SDR 21	829.1 l.f.
	Pipe Sleeve: PVC Schedule 40	614.7 l.f.



IRRIGATION NOTES

1. IRRIGATION CONTRACTOR SHALL TEST EXISTING STATIC PRESSURE ON SITE PRIOR TO CONSTRUCTION. SHOULD EXISTING SITE PRESSURE BE BELOW 65 PSI, CONTRACTOR SHALL CONTACT THE IRRIGATION DESIGNER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. COORDINATE IRRIGATION INSTALLATION WITH PLANTING PLAN AND SITE CONDITIONS TO PROVIDE COMPLETE 100% COVERAGE WITH MINIMUM OVERSPRAY. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE PROPER COVERAGE AT NO ADDITIONAL COST TO THE OWNER.
3. ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS PRIOR TO COMMENCEMENT OF OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR.
4. LATERAL PIPE SHALL BE INSTALLED AT A MINIMUM DEPTH OF 12 INCHES. MAINLINE PIPE AND WIRES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 18 INCHES.
5. ELECTRICAL POWER SHALL BE PROVIDED WITHIN 5 FEET OF CONTROLLER LOCATION BY GENERAL CONTRACTOR. LICENSED IRRIGATION CONTRACTOR TO PROVIDE FINAL HARD WIRE TO CONTROLLER.
6. 24 VOLT VALVE WIRE SHALL BE A MINIMUM OF 14 GAUGE, U.L. APPROVED FOR DIRECT BURIAL, SINGLE CONDUCTOR "IRRIGATION WIRE". CONTRACTOR TO CONFIRM WIRE SIZE PRIOR TO INSTALLATION. WIRE SPLICES SHALL BE ENCASED IN A WATERPROOF WIRE CONNECTOR UL APPROVED AND FILLED WITH SILICONE.
7. IRRIGATION VALVES AND VALVE BOXES SHALL BE LOCATED IN LANDSCAPE BEDS OR GROUNDCOVER AREAS WHENEVER POSSIBLE. ALL REMOTE VALVE BOXES SHALL BE SET FLUSH WITH FINISHED GRADE AND CONTAIN ONE CUBIC FOOT OF CLEAN GRAVEL BENEATH VALVE. LABEL REMOTE BOXES WITH ONE-INCH ALPHA NUMERIC NOTATION CORRESPONDING TO THE APPLICABLE ALPHA CONTROLLER AND NUMERIC STATION. USE 10" ROUND VALVE BOXES FOR ELECTRIC VALVES AND QUICK COUPLING VALVES. USE 15" X 9.5" RECTANGULAR BOX FOR DRIP VALVES UNLESS NOTED OTHERWISE. DOUBLE CHECK ASSEMBLY SHALL BE BOXED ACCORDING TO LOCAL CODES.
8. USE PVC SWING JOINT ASSEMBLIES TO CONNECT ALL SPRAY AND ROTOR HEADS.
9. CONTRACTOR IS TO CONTACT APPROPRIATE AUTHORITIES AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, AND UTILITY LOCATIONS PRIOR TO BEGINNING WORK.
10. SLEEVES SHALL BE INSTALLED BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED. SLEEVE MATERIAL SHALL BE PVC, SCHD. 40. CONTRACTOR SHALL EXTEND SLEEVES 18 INCHES BEYOND EDGE OF ALL PAVEMENT. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES. SEE SLEEVING DETAIL. ALL PRESSURE MAINLINES UNDER ASPHALT PAVEMENT SHALL BE PLACED WITHIN SLEEVES AS NOTED.
11. DRIP LINE SHALL BE PLACED A MINIMUM OF 2" UNDER MULCH.
12. LICENSED IRRIGATION CONTRACTOR SHALL ADJUST SPRAY NOZZLES FOR "HEAD-TO-HEAD" COVERAGE AND ADJUST FOR MINIMUM OVERSPRAY ONTO PAVEMENT. NO OVERSPRAY IS PERMITTED ONTO STREETS OR SIDEWALKS.
13. IRRIGATION CONTRACTOR SHALL SUPPLY AND CONSTRUCT IRRIGATION SYSTEM WITH ALL MATERIALS AND PER MANUFACTURER SPECIFICATIONS SHOWN ON THIS PLAN. IF CONTRACTOR PREFERS MATERIALS THAT DIFFER FROM THE THIS PLAN, THEY SHALL BE APPROVED BY THE IRRIGATION DESIGNER PRIOR TO CONSTRUCTION.
14. VERIFY CONTROLLER AND RAIN SENSOR LOCATION AND MAINLINE POINT OF CONNECTION AT PROJECT SITE WITH OWNER.
15. EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN THE CRITICAL ROOT ZONE OF ANY TREE.
16. IRRIGATION LATERAL LINES, MAIN LINES AND EQUIPMENT MAY BE SHOWN OUTSIDE PROPERTY LINES ON THIS PLAN, ALL IRRIGATION LINES AND EQUIPMENT ARE TO BE WITHIN AND INSTALLED WITHIN THE LIMITS OF THE PROPERTY LINE.
17. SUPPLY LINE AND METER TO BE PROVIDED BY GENERAL CONTRACTOR. BACKFLOW PREVENTER TO BE PROVIDED BY IRRIGATION CONTRACTOR. IRRIGATION CONTRACTOR'S POINT OF CONNECTION TO BEGIN AFTER THE IRRIGATION WATER METER.
18. IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH OWNERS REPRESENTATIVE.
19. ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANUALLY WATERED/IRRIGATED TO KEEP MOIST UNTIL PLANTED.
20. MAINLINE, VALVES, AND WIRING ARE SHOWN ON DRAWINGS FOR CLARITY, SHOULD BE LOCATED IN ACCESSIBLE GREEN SPACE. CONTRACTOR TO COORDINATE WITH ALL DISCIPLINES TO AVOID CONFLICTS WITH UTILITIES/ STRUCTURES, ETC.
21. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.
22. SET SPRAY HEADS 4" FROM BACK OF CURB OR 24" IF PAVEMENT HAS NO CURB.
23. CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT. "AS-BUILT" DRAWINGS TO BE COLOR CODED BY ZONE ON 8.5" X 11", LAMINATED, AND PLACED IN CONTROLLER.
24. ALL DRIP ZONES SHALL BE INSTALLED WITH A SELF-FLUSHING DISC FILTER, OR APPROVED EQUAL.
25. INSTALL ALL IRRIGATION COMPONENTS AS PER MANUFACTURERS REQUIREMENTS.
26. IRRIGATION HEADS AND COMPONENTS SHALL BE LOCATED A MINIMUM OF 24" FROM ALL BUILDINGS TO AVOID ADVERSE PERFORMANCE OF FOUNDATIONS AND SLABS.
27. NO LATERALS LESS THAN 3/4" DIAMETER.



RPZ Assembly Backflow Preventer with Flow Sensor

Scale: N.T.S.

A

GENERAL IRRIGATION SPECIFICATIONS AND NOTES

A. EXTENT:

INCLUDES FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT FOR THE PROPER INSTALLATION OF THE IRRIGATION SYSTEM. THE WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING: (1) TRENCHING AND BACKFILL, (2) AUTOMATICALLY CONTROLLED LOW VOLUME IRRIGATION SYSTEM, (3) TEST ALL SYSTEMS AND MAKE OPERATIVE, (4) "AS-BUILT" DRAWINGS.

B. GENERAL:

1. PERMITS AND FEES: OBTAIN ALL PERMITS AND PAY REQUIRED FEES TO ANY GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THE WORK. INSPECTIONS REQUIRED BY LOCAL ORDINANCES DURING THE COURSE OF CONSTRUCTION SHALL BE ARRANGED AS REQUIRED. ON COMPLETION OF THE WORK, SATISFACTORY EVIDENCE SHALL BE FURNISHED TO THE OWNERS CONSTRUCTION REPRESENTATIVE TO SHOW THAT ALL WORK HAS BEEN INSTALLED IN ACCORDANCE WITH THE STATE AND LOCAL BUILDING/ PLUMBING CODE AND ALL OTHER CODE REQUIREMENTS.

2. APPROVAL: WHEREVER THE TERMS "APPROVE" OR "APPROVED" ARE USED IN THE SPECIFICATIONS, THEY SHALL MEAN THE APPROVAL OF THE OWNER'S CONSTRUCTION REPRESENTATIVE IN WRITING.

3. BEFORE ANY WORK IS STARTED, A CONFERENCE SHALL BE HELD BETWEEN THE CONTRACTOR AND THE OWNER'S CONSTRUCTION REPRESENTATIVE CONCERNING THE WORK UNDER THIS CONTRACT.

4. COORDINATION: COORDINATE AND COOPERATE WITH OTHER CONTRACTORS TO ENABLE THE WORK TO PROCEED AS RAPIDLY AND EFFICIENTLY AS POSSIBLE

5. INSPECTION OF SITE:

A. CONTRACTOR SHALL ACQUAINT THEMSELVES WITH ALL SITE CONDITIONS. SUBMISSION OF THEIR PROPOSAL SHALL BE CONSIDERED EVIDENCE THAT THE EXAMINATION HAS BEEN CONDUCTED. SHOULD UTILITIES NOT SHOWN ON THE PLANS BE FOUND DURING EXCAVATIONS, CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S CONSTRUCTION REPRESENTATIVE FOR INSTRUCTIONS AS TO FURTHER ACTION. FAILURE TO DO SO WILL MAKE CONTRACTOR LIABLE FOR ANY AND ALL DAMAGE THERETO ARISING FROM HIS OPERATIONS SUBSEQUENT TO DISCOVERY OF SUCH UTILITIES NOT SHOWN IN PLANS.

B. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS IN THE LAYOUT AS MAY BE REQUIRED TO CONNECT TO EXISTING STUBOUTS, SHOULD SUCH STUBS NOT BE LOCATED EXACTLY AS SHOWN, AND AS MAY BE REQUIRED TO WORK AROUND EXISTING WORK AT NO INCREASE IN COST TO THE OWNER'S CONSTRUCTION REPRESENTATIVE.

6. PROTECTION OF EXISTING PLANTS AND SITE CONDITIONS: THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT SITE CONDITIONS TO REMAIN. SHOULD DAMAGE BE INCURRED, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

7. THE OWNER RESERVES THE RIGHT TO SUBSTITUTE, ADD, OR DELETE ANY MATERIAL OR WORK AS THE WORK PROGRESSES. ADJUSTMENTS TO THE CONTRACT PRICE SHALL BE NEGOTIATED IF DEEMED NECESSARY BY THE OWNER ON A PER DIEM BASIS.

8. THE OWNER RESERVES THE RIGHT TO REJECT MATERIAL OR WORK WHICH DOES NOT CONFORM TO THE CONTRACT DOCUMENTS. REJECTED WORK SHALL BE REMOVED OR CORRECTED AT THE EARLIEST TIME POSSIBLE.

9. WORK SCHEDULE: WITHIN 10 DAYS AFTER AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE OWNER A WORK SCHEDULE.

10. "AS-BUILT" IRRIGATION DRAWINGS: PREPARE AN "AS-BUILT" DRAWING ON A FULL-SIZE PLAN SET WHICH SHALL SHOW DEVIATIONS FROM THE BID DOCUMENTS MADE DURING CONSTRUCTION AFFECTING THE MAIN LINE PIPE, CONTROLLER LOCATIONS, REMOTE CONTROL VALVES AND QUICK COUPLING VALVES. THE DRAWINGS SHALL ALSO INDICATE AND SHOW APPROVED SUBSTITUTIONS OF SIZE, MATERIAL AND MANUFACTURERS NAME AND CATALOG NAME AND CATALOG NUMBER. THE DRAWINGS SHALL BE DELIVERED TO THE TENANT'S CONSTRUCTION REPRESENTATIVE BEFORE FINAL ACCEPTANCE OF WORK.

11. FINAL ACCEPTANCE: FINAL ACCEPTANCE OF THE WORK MAY BE OBTAINED FROM THE OWNER'S CONSTRUCTION REPRESENTATIVE UPON THE SATISFACTORY COMPLETION OF ALL WORK.

12. GUARANTEE: ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE AGAINST ALL DEFECTS IN MATERIAL, EQUIPMENT AND WORKMANSHIP. GUARANTEE SHALL ALSO COVER REPAIR OF DAMAGE TO ANY PART OF THE PREMISES RESULTING FROM LEAKS OR OTHER DEFECTS IN MATERIAL, EQUIPMENT AND WORKMANSHIP TO THE SATISFACTION OF THE TENANT'S CONSTRUCTION REPRESENTATIVE. REPAIRS, IF REQUIRED, SHALL BE DONE PROMPTLY AT NO COST TO THE OWNER.

13. A LAMINATED PLAN (8 1/2 X 11) SHOWING THE DIFFERENT IRRIGATION ZONES IN COLOR, PREPARED BY THE IRRIGATION CONTRACTOR, SHALL BE POSTED IN THE MECHANICAL ROOM OR WITHIN CONTROLLER CABINET.

C. MATERIALS:

1. GENERAL: ALL MATERIALS THROUGHOUT THE SYSTEM SHALL BE NEW AND IN PERFECT CONDITION.

2. PLASTIC PIPING: ALL MAIN LINES AND LATERAL LINES SHALL BE CLASS 200 POLYVINYL CHLORIDE (PVC) PIPE AND SHALL COMPLY WITH ONE OF THE FOLLOWING STANDARDS: ASTM D 1785, ASTM D-2241, AWWA C-900, OR AWWA C-905. SDR-PR PIPE SHALL HAVE A MINIMUM WALL THICKNESS AS REQUIRED BY SDR-26. PVC GASKETS FITTINGS SHALL CONFORMING TO ASTM D 3139. GASKETS SHALL CONFORM TO ASTM F 477. SOLVENT-WELD PVC FITTINGS SHALL MEET THE REQUIREMENTS OF SCHEDULE 40 AS SET FORTH IN ASTM D 2466. THREADED PVC PIPE FITTINGS SHALL MEET THE REQUIREMENTS OF SCHEDULE 40 AS SET FORTH IN ASTM D 2466. CONFORMING TO ASTM D-1784 AND D-2241

3. PLASTIC FITTINGS: ALL SOLVENT-WELD PVC FITTINGS SHALL MEET THE REQUIREMENTS OF SCHEDULE 40 AS SET FORTH IN ASTM D 2466. SCHEDULE 40 SOLVENT-WELD, POLYVINYL CHLORIDE (PVC) STANDARD WEIGHT AS MANUFACTURED BY SLOANE, LASCO, OR APPROVED EQUAL.

4. SOLVENT CEMENT: PVC CEMENT SHALL MEET ASTM D 2564 AND PVC CLEANER-TYPE SHALL MEET ASTM F 656.

5. SPRINKLER HEAD RISERS: SCHEDULE 40 PVC FOR RISERS. PIPE SHALL BE CUT WITH A STANDARD PIPE CUTTING TOOL WITH SHARP CUTTERS. REAM ONLY TO FULL DIAMETER OF PIPE AND CLEAN ALL ROUGH EDGES OR BURRS. CUT ALL THREADS ACCURATELY WITH SHARP DIES. NOT MORE THAN THREE(3) FULL THREADS SHALL SHOW BEYOND FITTINGS WHEN PIPE IS MADE UP. ASSEMBLIES SHALL BE AS DETAILED.

6. AUTOMATIC CONTROLLER: SEE LEGEND

7. REMOTE CONTROL VALVES: SEE LEGEND

8. CONTROL WIRING: CONVENTIONAL SYSTEMS TO USE 24 VOLT SOLID UL APPROVED FOR DIRECT BURIAL IN GROUND. MINIMUM WIRE SIZE: 14 GAUGE. ALL SPLICES SHALL BE MADE WITHIN VALVE BOX. TWO-WIRE SYSTEMS TO UTILIZE CONTROL WIRING PER MANUFACTURER STANDARDS.

9. SLEEVES FOR CONTROL WIRING: UNDER ALL WALKS AND PAVED AREAS AND WHERE INDICATED ON DRAWINGS. MINIMUM PVC SCHEDULE 40 PLASTIC PIPE.

10. SPRINKLER HEADS/ DRIP LINE: SEE LEGEND

11. QUICK COUPLING VALVES: SHALL BE NOTED ON DRAWINGS.

D. WORKMANSHIP:

1. LAY OUT WORK AS ACCURATELY AS POSSIBLE TO THE DRAWINGS. THE DRAWINGS, THOUGH CAREFULLY DRAWN, ARE GENERALLY DIAGRAMMATIC TO THE EXTENT THAT SWING JOINTS, OFFSETS, AND ALL FITTINGS ARE NOT SHOWN.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL AND COMPLETE COVERAGE OF ALL IRRIGATED AREAS AND SHALL MAKE ANY NECESSARY MINOR ADJUSTMENTS AT NO ADDITIONAL COST TO THE OWNER'S CONSTRUCTION REPRESENTATIVE.

3. ANY MAJOR REVISIONS TO THE IRRIGATION SYSTEM MUST BE SUBMITTED AND ANSWERED IN WRITTEN FORM, ALONG WITH ANY CHANGE IN CONTRACT PRICE.

E. INSTALLATION:

1. EXCAVATION AND TRENCHING:

A. PERFORM ALL EXCAVATIONS AS REQUIRED FOR THE INSTALLATION OF THE WORK INCLUDING UNDER THIS SECTION, INCLUDING SHORING OF EARTH BANKS TO PREVENT CAVE-INS. RESTORE ALL SURFACES, EXISTING UNDERGROUND INSTALLATIONS, ETC., DAMAGED OR CUT AS A RESULT OF THE EXCAVATIONS TO AND IN A MANNER APPROVED BY THE OWNER.

B. TRENCHES SHALL BE MADE WIDE ENOUGH TO ALLOW A MINIMUM OF 6 INCHES BETWEEN PARALLEL PIPE LINES. TRENCHES FOR PIPE LINES SHALL BE MADE OF SUFFICIENT DEPTHS TO PROVIDE THE MINIMUM COVER FROM FINISH GRADE AS FOLLOWS:

1) 24" MINIMUM BELOW BOTTOM PAVEMENT PER SLEEVING INSTALLATION DETAIL FOR MAIN LINE.18" MINIMUM FOR NON-PRESSURIZED LATERALS.
2) MINIMUM COVER OVER IRRIGATION LINES TO HEADS/ DRIPLINE EXCEPT VEHICLE TRAFFIC AREAS ARE AS FOLLOWS:
12" COVER OVER LATERALS
18" COVER OVER MAINLINE

C. MAINTAIN ALL WARNING SIGNS, SHORING, BARRICADES, FLARES AND RED LANTERNS AS REQUIRED BY THE SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY AND LOCAL ORDINANCES.

2. PIPE LINE ASSEMBLY:

A. INSTALL REMOTE CONTROL VALVES WHERE SHOWN AND GROUP TOGETHER WHERE PRACTICAL. PLACE NO CLOSER THAN 12-18 INCHES TO WALK EDGES, WALLS, AND OTHER PAVEMENTS. PLACE A MINIMUM OF 24" FROM BUILDINGS.

B. PLASTIC PIPE AND FITTINGS SHALL BE SOLVENT WELDED USING SOLVENTS AND METHODS RECOMMENDED BY MANUFACTURER OF THE PIPE, EXCEPT WHERE SCREWED CONNECTIONS ARE REQUIRED. PIPE AND FITTINGS SHALL BE THOROUGHLY CLEANED OF DIRT, DUST AND MOISTURE BEFORE APPLYING SOLVENT WITH A NON-SYNTHETIC BRISTLE BRUSH.

C. PIPE MAY BE ASSEMBLED AND WELDED ON THE SURFACE. SNAKE PIPE FROM SIDE TO SIDE OF TRENCH BOTTOM TO ALLOW FOR EXPANSION AND CONTRACTION.

D. MAKE ALL CONNECTIONS BETWEEN PLASTIC PIPE AND METAL VALVES OR STEEL PIPE WITH THREADED FITTINGS USING PLASTIC MALE ADAPTERS.

E. JOINTS:

1. PIPE SIZES 2 1/2 INCH OR SMALLER SHALL HAVE BELL AND SOCKET JOINTS.
2. PIPE SIZES LARGER THAN 2 1/2 INCH SHALL HAVE SNAP CONNECTIONS WITH RUBBER GASKET JOINTS.
3. THRUST BLOCKING SHALL BE REQUIRED WHEN PIPE SIZE IS 4 " OR GREATER.

3. SPRINKLER HEADS/ DRIPLINE:

A. INSTALL ALL SPRINKLERS/ DRIPLINE AS DETAILED ON DRAWINGS.
B. DO NOT SCALE PLANS FOR EXACT HEAD LOCATION.

4. CLOSING OF PIPE AND FLUSHING LINES:

A. CAP OR PLUG ALL OPENINGS AS SOON AS LINES HAVE BEEN INSTALLED TO PREVENT THE ENTRANCE OF MATERIALS THAT WOULD OBSTRUCT THE PIPE. LEAVE IN PLACE UNTIL REMOVAL IS NECESSARY FOR COMPLETION OF INSTALLATION.

B. THOROUGHLY FLUSH OUT ALL WATER LINES BEFORE INSTALLING HEADS, DRIPLINE, VALVES AND OTHER HYDRANTS.

C. TEST IN ACCORDANCE WITH PARAGRAPH ON HYDROSTATIC TESTS.

D. UPON COMPLETION OF THE TESTING, THE CONTRACTOR SHALL COMPLETE ASSEMBLY AND ADJUST SPRINKLER HEADS FOR PROPER DISTRIBUTION.

5. INSPECTIONS:

A. SPRINKLER/ DRIPLINE LAYOUT AND SPACING INSPECTION: VERIFICATION THAT THE IRRIGATION DESIGN IS ACCURATELY INSTALLED IN THE FIELD. IT WILL ALSO PROVIDE FOR ALTERATION OR MODIFICATION OF THE SYSTEM TO MEET FIELD CONDITIONS. SPACING SHOULD BE WITHIN 5% OF THE DESIGN SPACING.

B. PIPE INSTALLATION DEPTH INSPECTION: ALL PIPES IN THE SYSTEM SHALL BE INSTALLED TO DEPTHS AS PREVIOUSLY DESCRIBED IN SECTION 'E' OF THESE SPECIFICATIONS.

C. OPEN TRENCH INSPECTION: THE TRENCH AND ALL JOINTS AND EVERY TRANSITION IN PIPE SIZE, WILL BE OPEN WHERE OPEN TRENCH INSPECTION IS REQUIRED.

D. INSPECTIONS WILL BE PERFORMED THROUGHOUT THE DURATION OF THE INSTALLATION. INSPECTION MAY BE MADE BY THE GOVERNING AGENCY/ OWNER TO ENSURE COMPLIANCE WITH DESIGN INTENT, SPECIFICATIONS, AND THE IRRIGATION CODES.

6. HYDROSTATIC TESTS:

A. REQUEST THE PRESENCE OF THE OWNER AND/OR OWNERS REPRESENTATIVE IN WRITING AT LEAST 48 HOURS IN ADVANCE OF TESTING.

B. TESTING TO BE ACCOMPLISHED AT THE EXPENSE OF THE CONTRACTOR AND IN THE PRESENCE OF THE OWNER.

C. CENTER LOAD PIPING WITH SMALL AMOUNT OF BACKFILL TO PREVENT ARCHING OR SLIPPING UNDER PRESSURE.

D. APPLYING A CONTINUOUS AND STATIC WATER PRESSURE OF 125 PSI WHEN WELDED PLASTIC JOINTS HAVE CURED AT LEAST 3 HOURS AND WITH THE RISERS CAPPED AS FOLLOWS:

1) MAIN LINES AND SUBMAINS TO BE TESTED FOR 2 HOURS.
2) NO PRESSURE LOSS IS ALLOWED FOR SOLVENT WELD MAINLINE/ PIPE.

E. FOR PVC AND O-RING GASKET PIPE THE ALLOWABLE LEAKAGE SHALL NOT EXCEED THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FOLLOWING FORMULA:

$$L=NPD\sqrt{P}/1,850$$

IN WHICH: L=ALLOWABLE LEAKAGE, IN GALLONS PER HOUR
N=NUMBER OF JOINTS
D=PIPE DIAMETER IN INCHES
P=AVERAGE TEST PRESSURE IN PSI GAUGE

F. REPAIR LEAKS RESULTING FROM TESTS.

7. AUTOMATIC CONTROLLERS:

A. CONNECT REMOTE CONTROL VALVES TO CONTROLLER IN A CLOCKWISE SEQUENCE TO CORRESPOND WITH STATION SETTING BEGINNING WITH STATIONS 1, 2, 3, ETC.

8. AUTOMATIC CONTROL WIRING:

A. INSTALL CONTROL WIRING, SPRINKLER MAINS AND LATERALS IN COMMON TRENCHES WHEREVER POSSIBLE.

B. INSTALL CONTROL WIRES AT LEAST 18" BELOW FINISHED GRADE AND SNAKE WIRE SIDE TO SIDE IN TRENCH BELOW MAIN LINE. EXPANSION CURLS SHALL BE PROVIDED WITHIN THREE (3') FEET OF EACH WIRE CONNECTION TO SOLENOID AND AT LEAST EVERY THREE HUNDRED (300') FEET IN LENGTH. (EXPANSION CURLS ARE FORMED BY WRAPPING AT LEAST FIVE (5) TURNS OF WIRE AROUND A ROD OR PIPE 1" OR MORE IN DIAMETER, THEN WITHDRAWING THE ROD).

C. CONTROL WIRE SPLICES WILL BE ALLOWED ONLY RUNS OVER 1000 FT. CONNECTIONS SHALL BE IN VALVE BOX AND LOCATION TO BE SHOWN ON AS-BUILT PLANS.

D. ALL WIRING PASSING UNDER EXISTING OR FUTURE PAVING, CONSTRUCTION, ETC., SHALL BE ENCASED IN PLASTIC OR GALVANIZED STEEL CONDUIT EXTENDING AT LEAST 24" BEYOND EDGES OF PAVING OR CONSTRUCTION.

E. CONTRACTOR SHALL RUN TWO SPARE WIRES IN EACH DIRECTION FROM CONTROLLER TO FARTHEST VALVE TO SERVE AS BACKUP WIRES.

9. BACKFILL AND COMPACTING:

A. AFTER SYSTEM IS OPERATING AND REQUIRED TESTS AND INSPECTIONS HAVE BEEN MADE, BACKFILL EXCAVATIONS AND TRENCHES WITH CLEAN SOIL, FREE OF RUBBISH. INITIAL BACKFILL MATERIAL TO 6 INCHES ABOVE THE TOP OF PIPE SHALL BE FREE OF ROCKS OR STONES LARGER THAN ONE INCH IN DIAMETER FINAL BACKFILL MATERIAL SHALL BE FREE OF ROCKS OR STONES LARGER THAN 3 INCHES IN DIAMETER.

B. BACKFILL FOR ALL TRENCHES, REGARDLESS OF THE TYPE OF PIPE COVERED, SHALL BE COMPACTED TO MINIMUM 90% DENSITY.

C. COMPACT TRENCHES IN AREAS TO BE PLANTED BY THOROUGHLY FLOODING THE BACKFILL. JETTING PROCESS MAY BE USED IN THOSE AREAS.

D. DRESS OFF ALL AREAS TO FINISH GRADES.

10. PROTECTIVE RADIUS OF EXISTING TREES:

A. AN AUGER IS TO BE USED TO TUNNEL UNDER EXISTING TREES IF IRRIGATION IS INSTALLED WITHIN THE PROTECTIVE RADIUS OF EXISTING TREES AND ONLY IF THERE IS NO OTHER OPTION OR TO DO SO CREATES AN UNREASONABLE HARDSHIP.

F. CLEAN-UP:

1. REMOVE FROM THE SITE ALL DEBRIS RESULTING FROM WORK OF THIS SECTION.

No.	REVISIONS	DATE

Kimley»Horn
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PHONE: 940.387.3020
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

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Kimley»Horn
Lic. MARIE E. ROBROS
Lic. No. 00265441 Date 6/13/2024

SCALE AS SHOWN
DESIGNED BY MMS
DRAWN BY MMS
CHECKED BY MER

IRRIGATION DETAILS

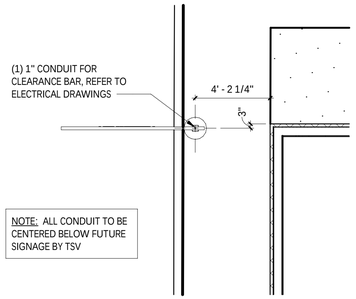
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LOTS 7R6 & 7R7, BLOCK A
CROSS ROADS TEXAS

DATE 06/04/2024
PROJECT NO. 069225635
SHEET NUMBER L2.03

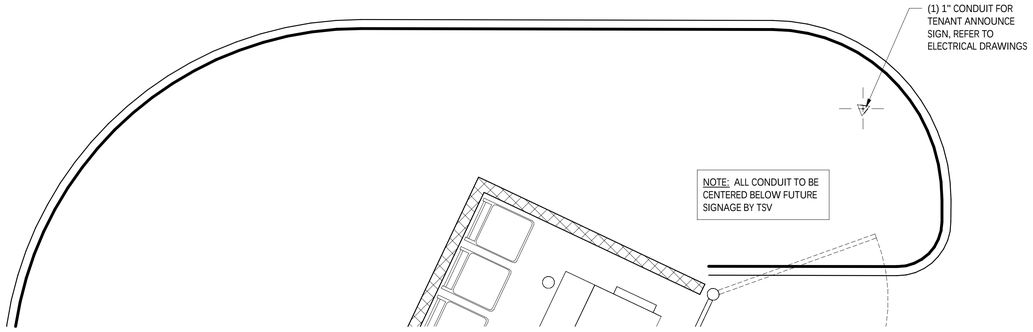
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GENERAL NOTES

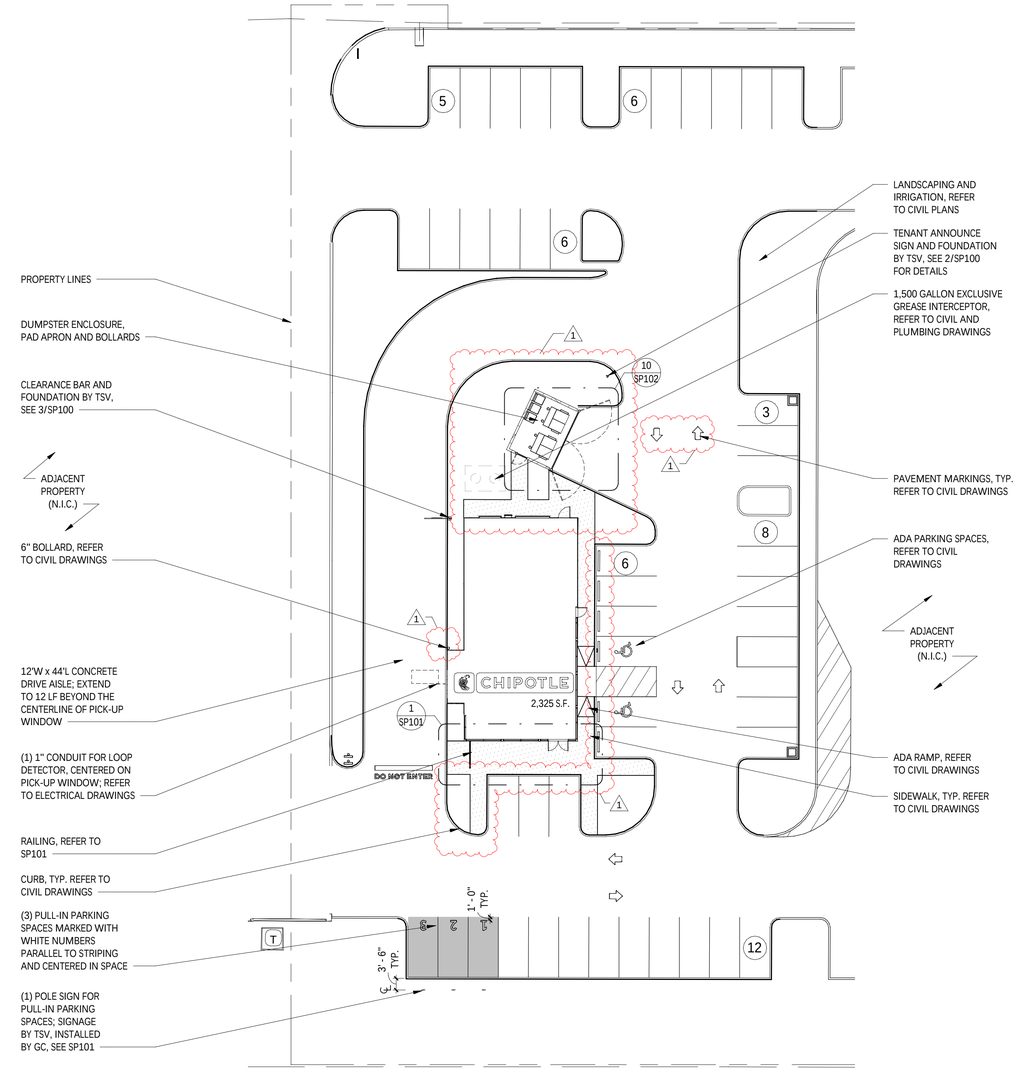
1. STENCILS FOR PARKING MARKINGS AVAILABLE FROM PAVEMENT STENCIL COMPANY, PHONE: (800) 250-5547, EMAIL: STENCILS@PAVEMENTSTENCIL.COM
2. NOTE: ARCHITECTURAL SITE PLAN IS FOR REFERENCE ONLY. GC TO BUILD FROM CIVIL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN ARCHITECTURE AND CIVIL, CONTACT ARCHITECT IMMEDIATELY.
3. ALL SITE WORK INCLUDING PAVING, CURBING, PARKING, PARKING LOT LIGHTING, SIDEWALKS, LANDSCAPING AND DUMPSTER ENCLOSURE ARE EXISTING U.N.O.



3 SP100 ARCHITECTURAL SITE PLAN DIMENSIONED
1/4" = 1'-0"



2 SP100 ARCHITECTURAL SITE PLAN DIMENSIONED
1/4" = 1'-0"



1 SP100 ARCHITECTURAL SITE PLAN
3/64" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · TAYLOR R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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CROSS ROADS
11940 US HWY 380
CROSS ROADS, TX 76227

Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

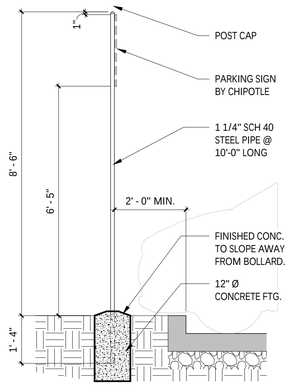
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Checked: T. GRANDORF

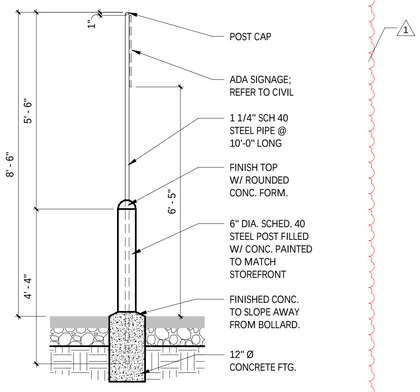
Project No.
CMG5134

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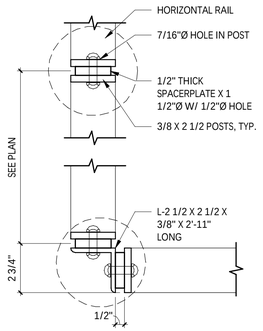
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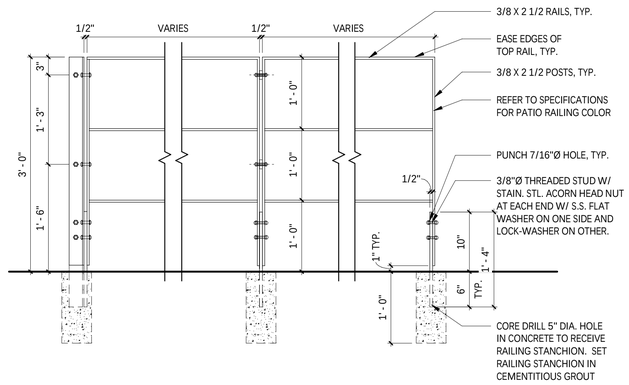
4 SP101 PULL UP PARKING SIGN POST DETAIL
1/2" = 1'-0"



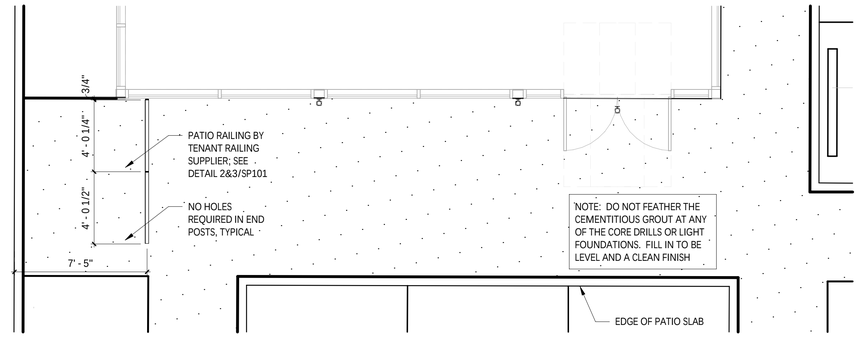
5 SP101 PULL UP PARKING SIGN POST DETAIL
1/2" = 1'-0"



3 SP101 RAILING PLAN DETAIL
3" = 1'-0"



2 SP101 RAILING MOUNTING DETAIL
1" = 1'-0"



1 SP101 PATIO PLAN
1/4" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

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1	07/14/24	REVISION 01

Drawn: S. CLARK
Checked: T. GRANDORF

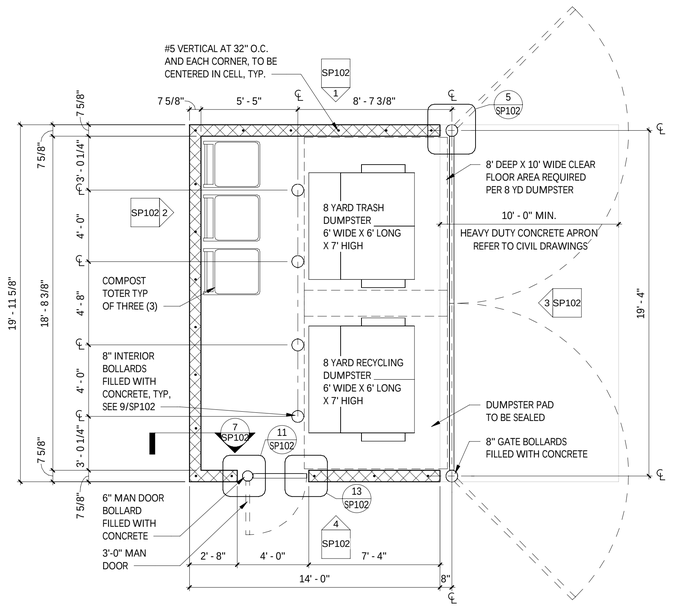
Project No.
CMG5134

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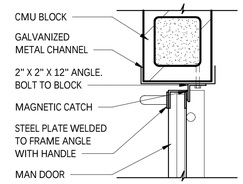
SP101

DUMPSTER ENCLOSURE FINISH SCHEDULE

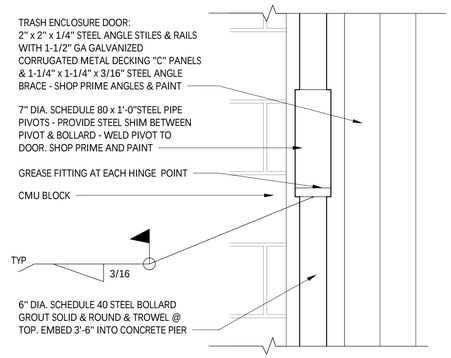
MATERIAL	COLOR/FINISH
CMU - PRIMER	REFER TO PAINT SPECIFICATIONS, COLOR 'WHITE'
CMU	REFER TO PAINT SPECIFICATIONS
METAL COPING	PREFINISHED TO MATCH CMU
CORRUGATED METAL & DOOR FRAMES	PAINTED 'KNIGHTS ARMOR' PPG 1001-6



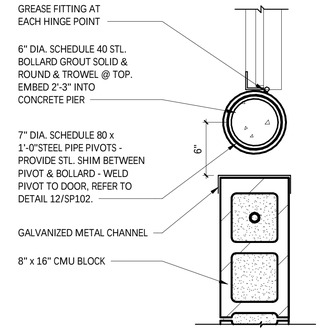
10 SP102 DUMPSTER PLAN
1/4" = 1'-0"



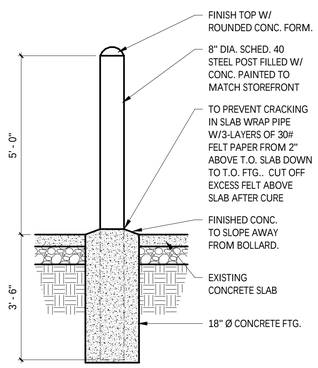
13 SP102 MAN DOOR LATCH DETAIL
1 1/2" = 1'-0"



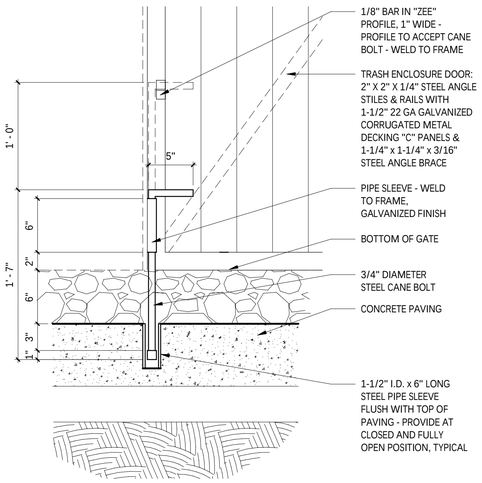
12 SP102 MAN DOOR PIVOT
1 1/2" = 1'-0"



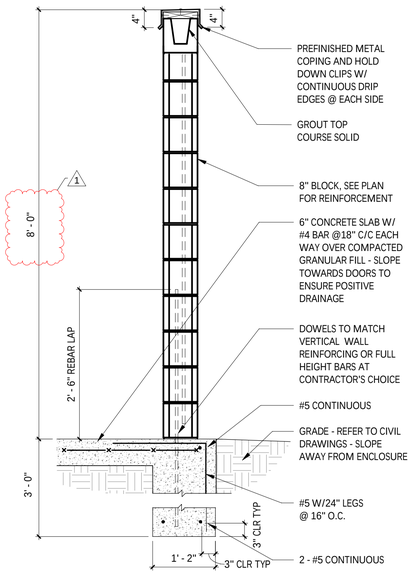
11 SP102 MAN DOOR PIVOT DETAIL
1 1/2" = 1'-0"



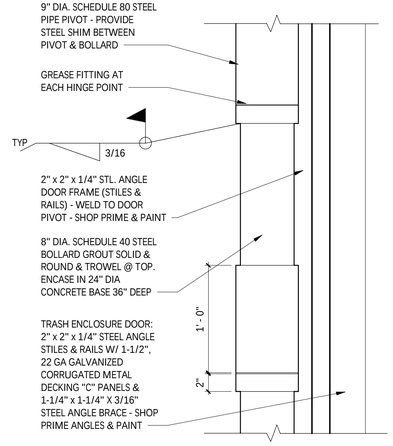
9 SP102 TYP. BOLLARD DETAIL
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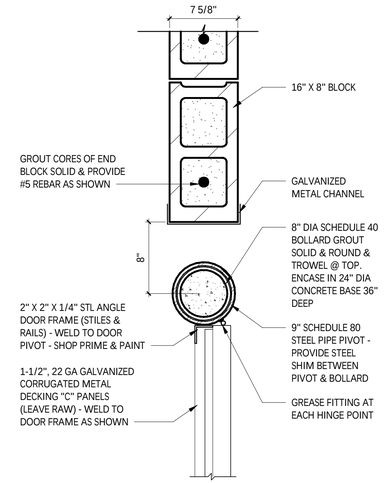
8 SP102 TYPICAL CANE BOLT DETAIL
1 1/2" = 1'-0"



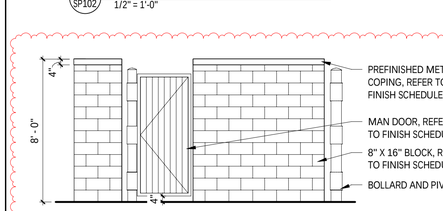
7 SP102 DUMPSTER DETAIL
3/4" = 1'-0"



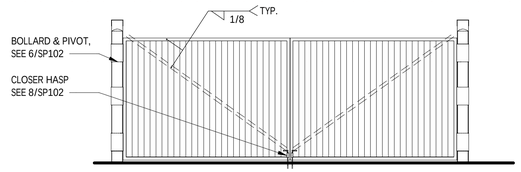
6 SP102 DUMPSTER DOOR PIVOT
1 1/2" = 1'-0"



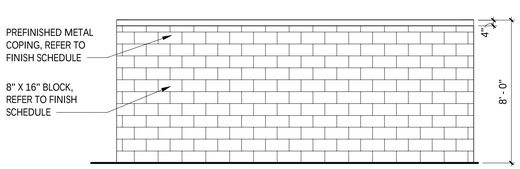
5 SP102 DUMPSTER WALL DETAIL
1 1/2" = 1'-0"



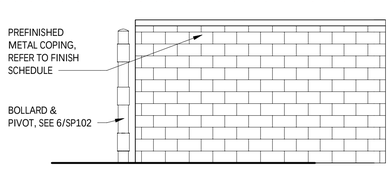
4 SP102 DUMPSTER ELEVATION
1/4" = 1'-0"



3 SP102 DUMPSTER ELEVATION
1/4" = 1'-0"



2 SP102 DUMPSTER ELEVATION
1/4" = 1'-0"



1 SP102 DUMPSTER ELEVATION
1/4" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · KELSON R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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CROSS ROADS, TX 76227

Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

1	07/14/24	REVISION 01

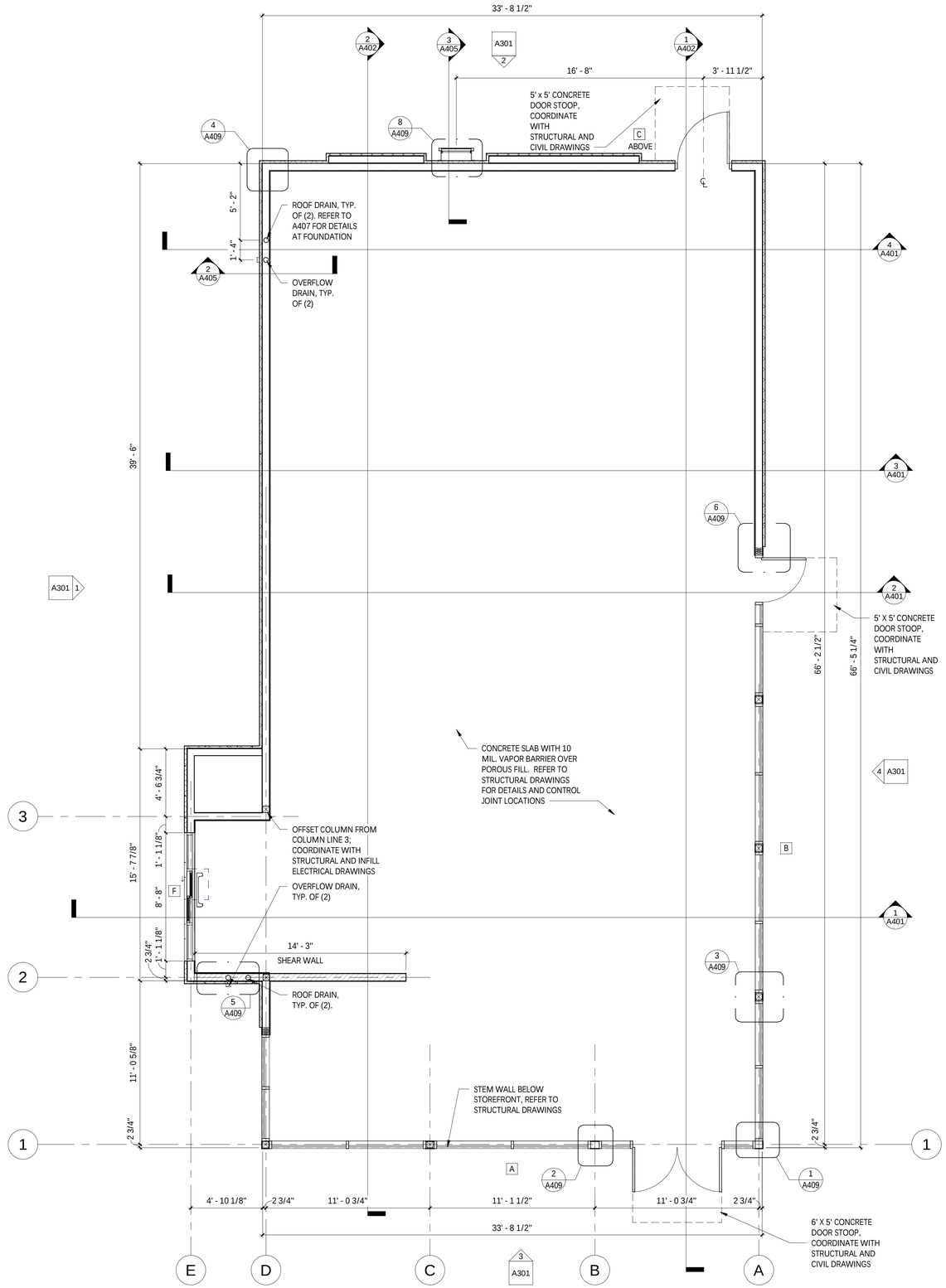
Drawn: S. CLARK
Checked: T. GRANDORF

Project No.: CMG5134

Contents:

DUMPSTER PLAN & DETAILS

SP102



1 A100 ARCHITECTURAL SHELL PLAN
1/4" = 1'-0"

CONSTRUCTION NOTES

1. REFER TO A601 FOR DOOR INFORMATION & A602 FOR STOREFRONT DIMENSIONS.
2. ALL DIMENSIONS ARE TO FACE OF FRAMING (STUD WALL) OR CENTERLINE OF STRUCTURE UNLESS NOTES OTHERWISE.
3. SEE STRUCTURAL SHEETS FOR ALL STUD FRAMING CONFIGURATIONS, SIZES, SPACING AND GAUGES.
4. ALL EXTERIOR WOOD BLOCKING TO BE MOISTURE RESISTANT PRESERVATIVE TREATED (P.T.)
5. TAPE SEALANT AT ALL ANCHOR LOCATIONS.
6. ALL FLASHING AND SEAMS BETWEEN SHEATHING IN COMPOSITE WOOD STUD WALL CONSTRUCTION CONDITIONS TO BE TAPED AND SEALED WITH TAPE SEALANT.
7. LAP ALL WEATHER RESISTANT BARRIERS AND THRU-WALL FLASHING IN A WATER SHEDDING FASHION. TAPE ALL EXPOSED EDGES.
8. EXTEND ALL THRU-WALL FLASHING TO 1/4 INCH PAST THE EXTERIOR FACE OF WALL.
9. PROVIDE CONTINUOUS ANCHORAGE FOR ALL THRU-WALL FLASHING.
10. EXTEND FLASHING VERTICALLY A MINIMUM OF 8 INCHES ABOVE THE BASE OF THE FLASHING.
11. APPLY SEALANT TO ALL SHEATHING JOINTS AND FASTENER PENETRATIONS.
12. PROVIDE FULLY ADHERED FLASHING AT ALL WINDOW AND DOOR OPENING HEADS, SILLS AND JAMBS.

ARCHITECT OF RECORD

ROGUE ARCHITECTS

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SEAL

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BRYAN R. GRANDORF
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STORE NO.: 5134
CROSS ROADS
11940 US HWY 380
CROSS ROADS, TX 76227

Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

Contents:
ARCHITECTURAL SHELL PLAN

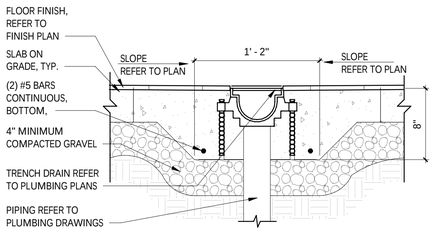
A100

PLUMBING LEGEND

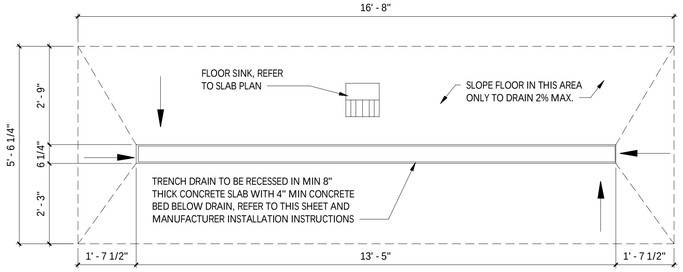
	FLOOR SINK
⊕	FLOOR DRAIN
	TRENCH DRAIN

GENERAL NOTES

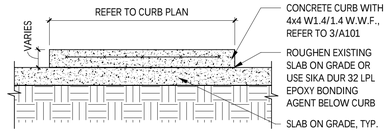
1.	VERIFY OVERALL INTERIOR DIMENSIONS, INTERIOR COLUMN PLACEMENTS, AND EXTERIOR WALL PENETRATIONS IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2.	ALL DIMENSIONS ARE TO THE INSIDE FACE OF EXTERIOR WALLS.
3.	ALL DIMENSIONS ARE TO THE CENTERLINE OF FIXTURE UNLESS OTHERWISE NOTED.
4.	GC TO REVIEW ELECTRICAL PLANS FOR LIGHTING OR POWER STUB LOCATIONS PRIOR TO POURING SLAB.
5.	REFER TO "03300 - CAST-IN-PLACE CONCRETE" IN SPECIFICATIONS FOR CONCRETE PATCHING OR INSTALLATION INFORMATION.
6.	VERIFY PERIMETER FOUNDATION INSULATION IS EXISTING IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7.	ALL TILED FLOOR TO MAINTAIN POSITIVE SLOPE TO ALL FLOOR DRAINS OF NOT GREATER THAN 2% SLOPE FOR A 4'X4' AREA U.N.O.



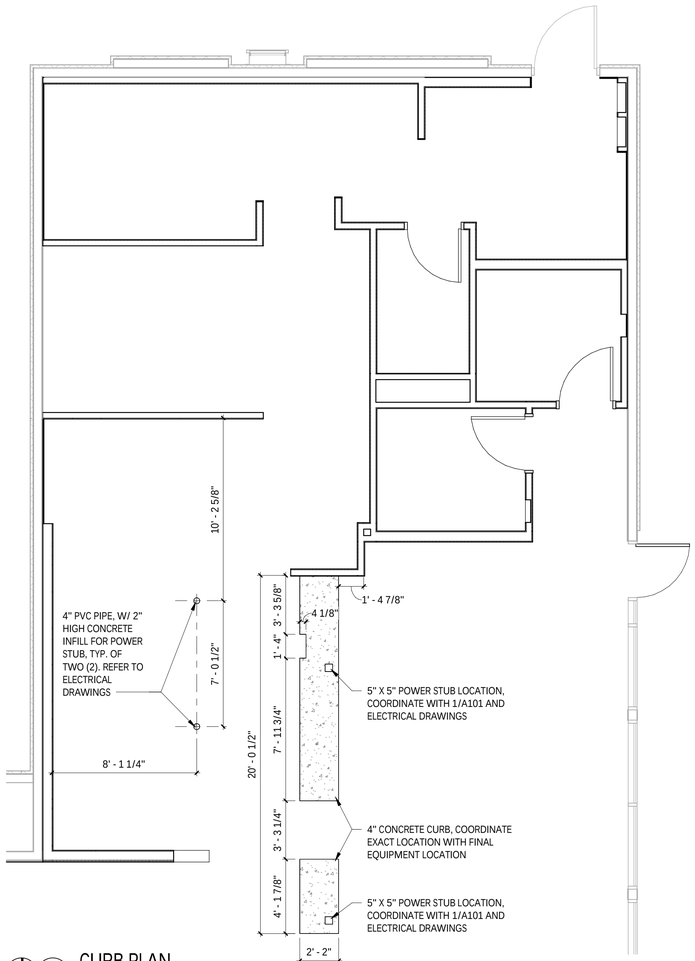
6 A101 TRENCH DRAIN DETAIL
1 1/2" = 1'-0"



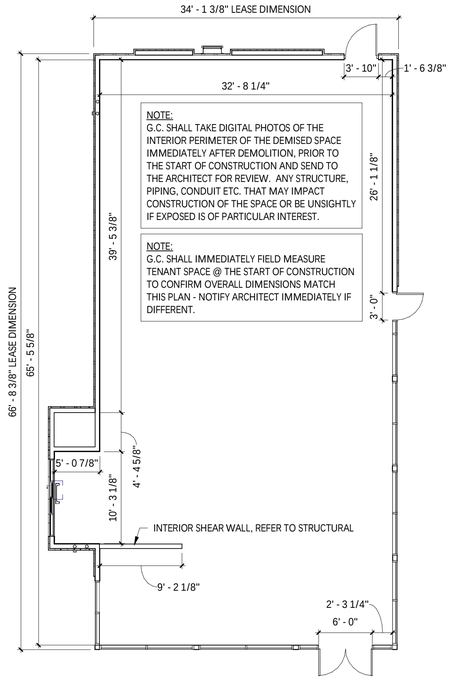
5 A101 TRENCH DRAIN PLAN DETAIL
1/2" = 1'-0"



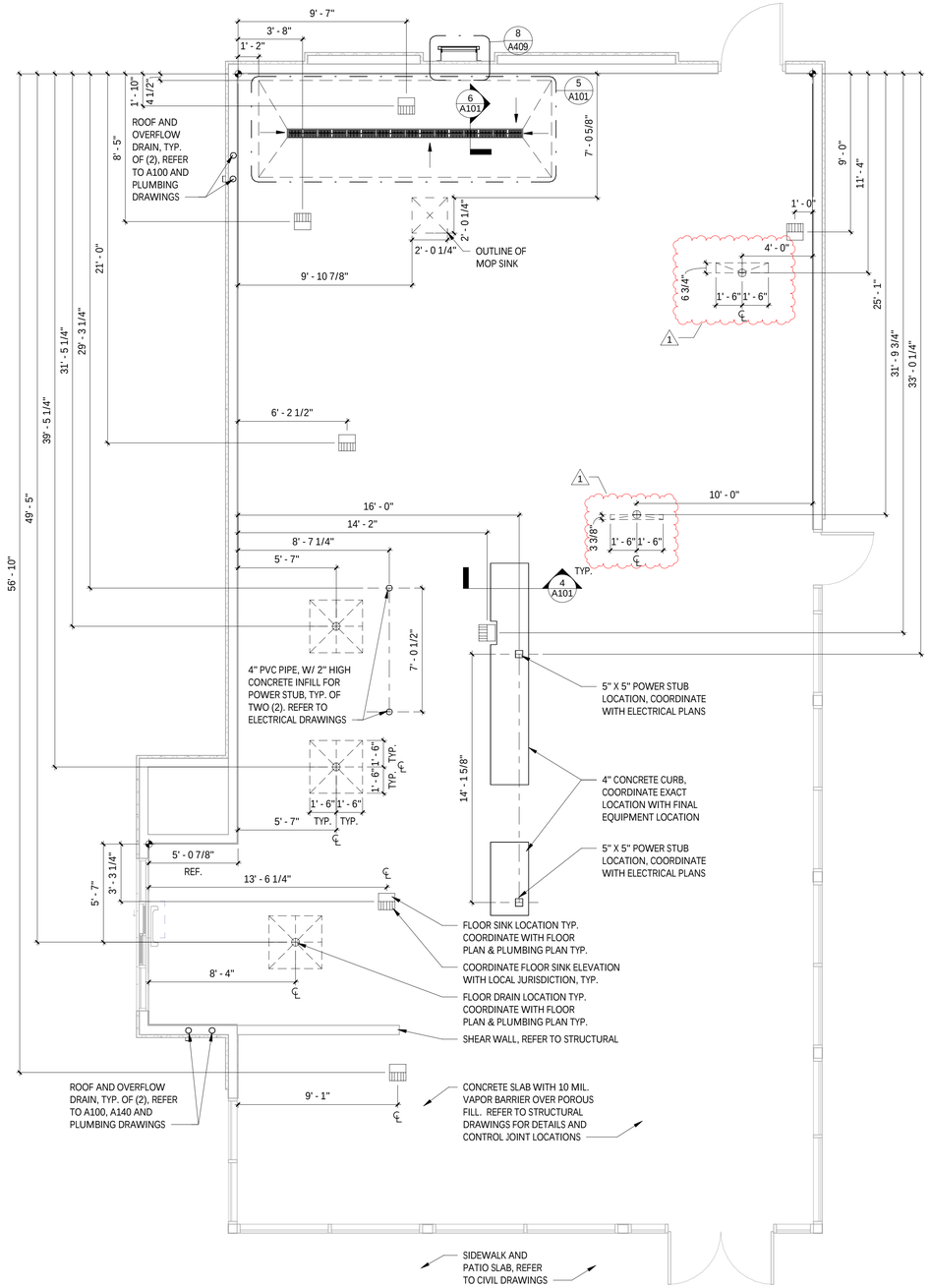
4 A101 CONCRETE CURB DETAIL
3/4" = 1'-0"



3 A101 CURB PLAN
1/4" = 1'-0"



2 A101 DEMISED PREMISES PLAN
1/8" = 1'-0"



1 A101 SLAB WORK PLAN
1/4" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · ALLISON R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

1 07/14/24	REVISION 01

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

Contents:
SLAB WORK PLAN

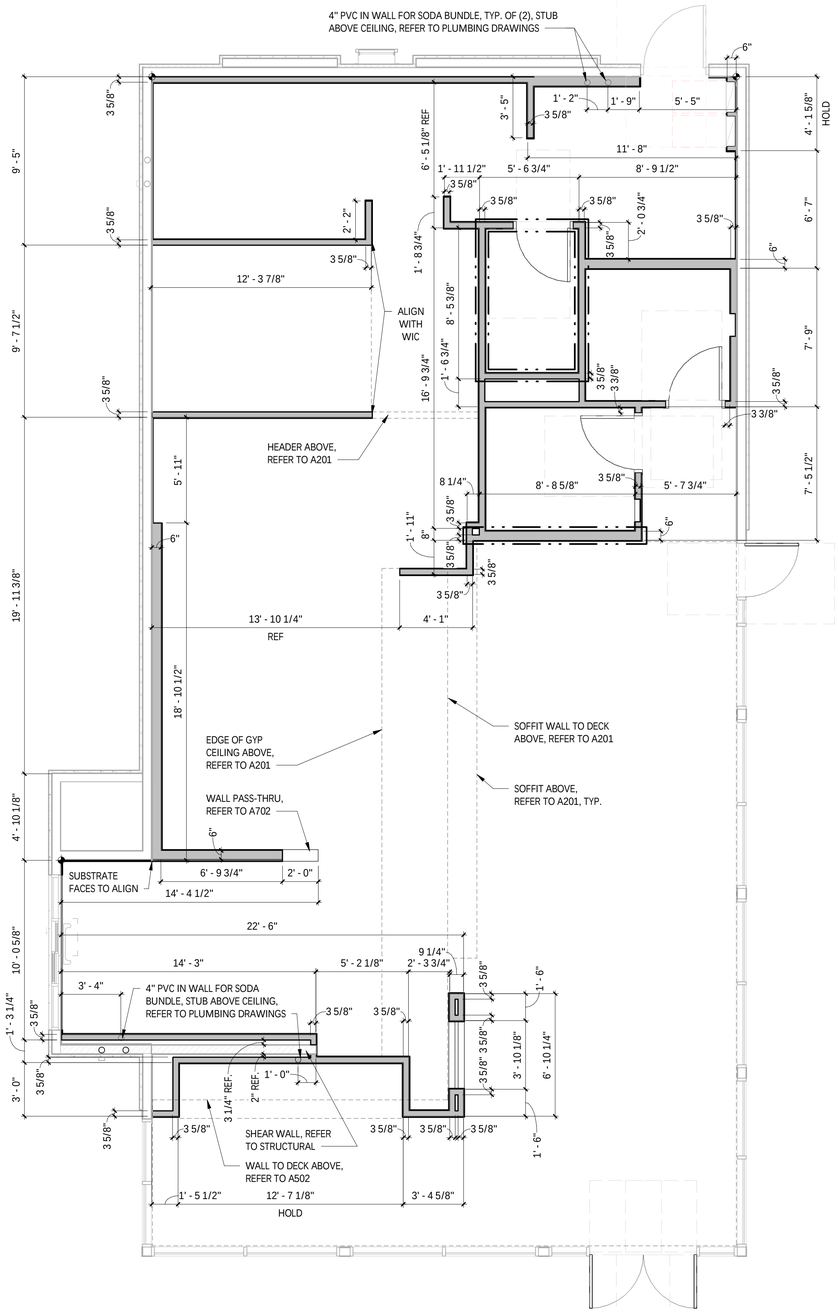
A101

WALL TYPE LEGEND

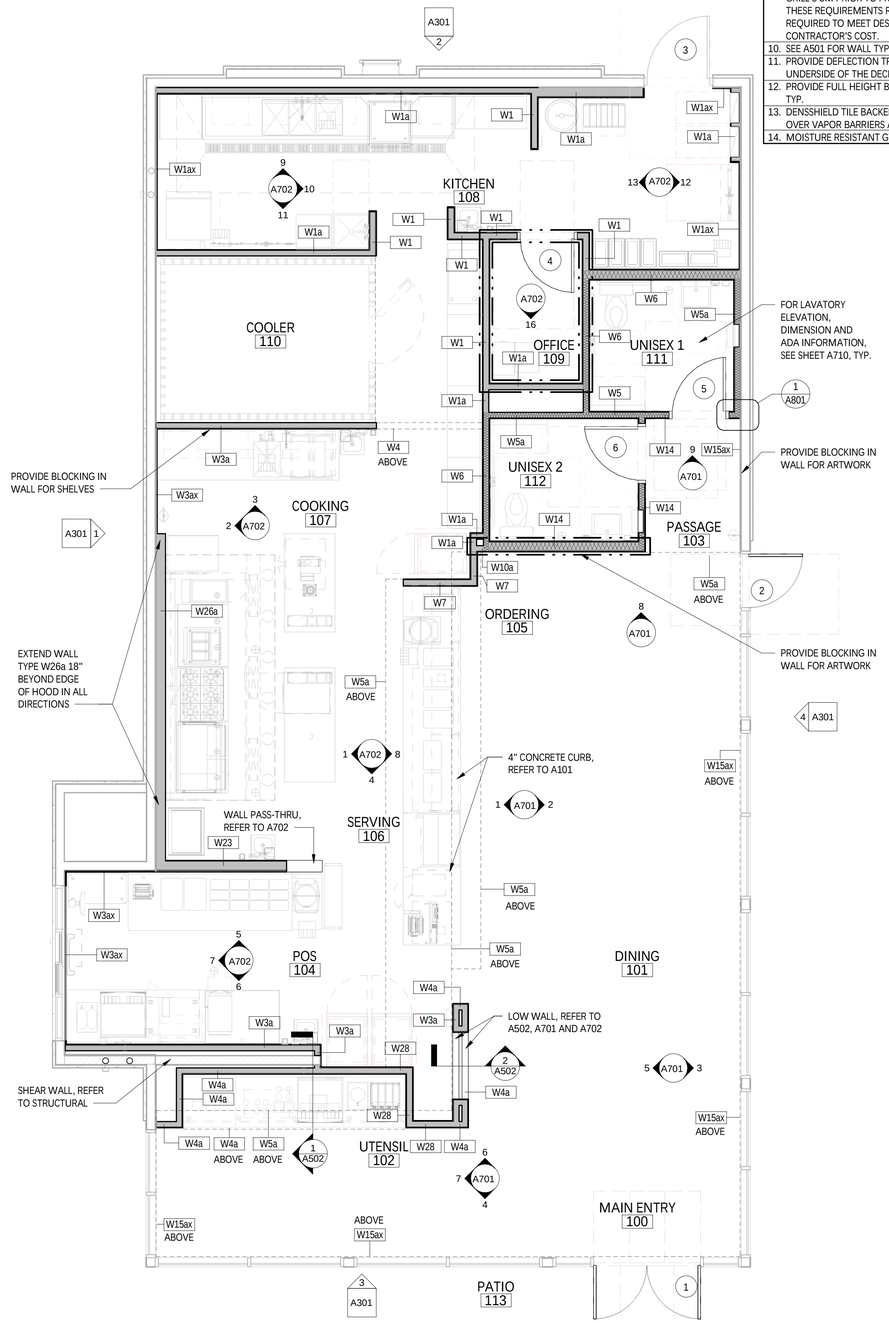
INTERIOR WALL CONSTRUCTION	
EXTERIOR WALL CONSTRUCTION	
INTERIOR WALL CONSTRUCTION WITH SOUND BATT INSULATION	
WALK-IN COOLER	
DESIGNATES WALLS & SHEATHING TO EXTEND TO DECK	

GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF FRAMING, OR CENTERLINE OF STRUCTURE UNLESS NOTED OTHERWISE.
2. DASHED CIRCLE IN RESTROOM INDICATES 5'-0" TURNING DIAMETER REQUIRED BY ADA.
3. REFER TO WALL FINISH SCHEDULE ON A120.
4. STUD SIZES AS INDICATED ON PLAN.
5. INTERIOR DOORS ARE 4" OFF OF PERPENDICULAR WALL U.N.O.
6. IN SITUATIONS WHERE TENANT'S G.C. IS TO PROVIDE TYPE 'X' GYP. BD. FOR A RATED ASSEMBLY, THE TYPE 'X' GYP. BD. IS REQUIRED TO GO BENEATH THE SHEATHING AND FINISHES.
7. SEE SHEET A801 FOR ADDITIONAL SHEATHING BEHIND CERTAIN WALL FINISHES.
8. SEE A601 FOR DOOR TYPES.
9. TENANT'S G.C. TO PERFORM LAYOUT OF ENTIRE SPACE PRIOR TO STARTING FRAMING AND REPORT ANY DESCREPANCIES IN NOTED DIMENSIONS TO ARCHITECT AND CHIPOTLE MEXICAN GRILL'S CM PRIOR TO PROCEEDING. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTOR'S COST.
10. SEE A501 FOR WALL TYPES.
11. PROVIDE DEFLECTION TRACKS AT WALLS WHICH GO TO THE UNDERSIDE OF THE DECKING, REFER TO DETAIL 3/A501
12. PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELVING, TYP.
13. DENSSHIELD TILE BACKER BOARD SHALL NOT BE INSTALLED OVER VAPOR BARRIERS AT EXTERIOR WALLS
14. MOISTURE RESISTANT GYP. BD. SHALL BE USED IN RESTROOMS.



2 A110 ARCHITECTURAL FLOOR PLAN - DIMENSIONS
1/4" = 1'-0"



1 A110 ARCHITECTURAL FLOOR PLAN
1/4" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

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REVISION 1 - 7/1/24

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Contents:

ARCHITECTURAL FLOOR PLAN

A110

CODED NOTES

1	1-1/2" X 1-1/2" STAINLESS STEEL CORNER GUARDS TO 10'-0" AFF
2	SCHLUTER-QUADEC METAL CORNER, REFER TO 10&11/A802 & 11/A801.
3	ALUMINUM ENDCAPS, REFER TO 12/A802. FOR WINDOWS, REFER TO 12&13/A802
4	PROVIDE STAINLESS STEEL ON WALL TO 24" ABOVE TOP OF MOP SINK. FLASH BOTTOM EDGE OVER MOP SINK RIM. BEND STAINLESS STEEL AT INSIDE CORNER SO THERE IS NO JOINT, REFER TO 17/A801.
5	NOT USED
6	COOLER WALL PANELS AS PROVIDED BY THE COOLER MANUFACTURER HAVE A 26-GAUGE COATED AND EMBOSSED STEEL FINISH.
7	G.C. TO PROVIDE 18 GAUGE STAINLESS STEEL SHROUD AROUND EXPOSED LINES AT THE ICE MAKER.
8	PROVIDE WATERPROOFING MEMBRANE, REFER TO 4&5/A802. PROVIDE ON INTERIOR OF ALL RESTROOM WALLS, REFER TO 18/A801.
9	PROVIDE QUARRY TILE ON TOP OF CURB FOR SMART SAFE. PROVIDE BULLNOSE TILE TO LAP OVER TOP CUT EDGE OF BASE TILE, REFER TO SHEET 1/802. G.C. TO COORDINATE EXTENT OF QUARRY TILE WITH KES PRIOR TO INSTALLATION.
10	FRP CLOSURE AT COOLER AIR GAP, REFER TO 14/A801
11	NOT USED
12	OUTSIDE CORNER GUARD BY TMS, REFER TO 13/A801
13	ALIGN LOW EDGE OF RENO RAMP WITH FRONT EDGE OF EQUIPMENT CURB AND FACE OF ADJACENT WALL BASE FINISH
14	NOT USED
15	PROVIDE TOP CORNER AT TRANSITION FROM GYP BD CEILING TO FRP WALL REFER TO 9/A210
16	4" PVC PIPE, WITH 2" HIGH CONCRETE INFILL FOR POWER STUB, TYP. OF TWO (2). REFER TO ELECTRICAL DRAWINGS
17	CONCRETE CURB FOR EQUIPMENT, WITH QUARRY TILE BASE AT EXPOSED EDGES
18	EXTENT OF QUARRY TILE FROM KITCHEN, ALIGN TILE WITH EDGE OF DOOR THRESHOLD
19	EXTENT OF RESINOUS FLOORING FROM RESTROOM

GENERAL NOTES

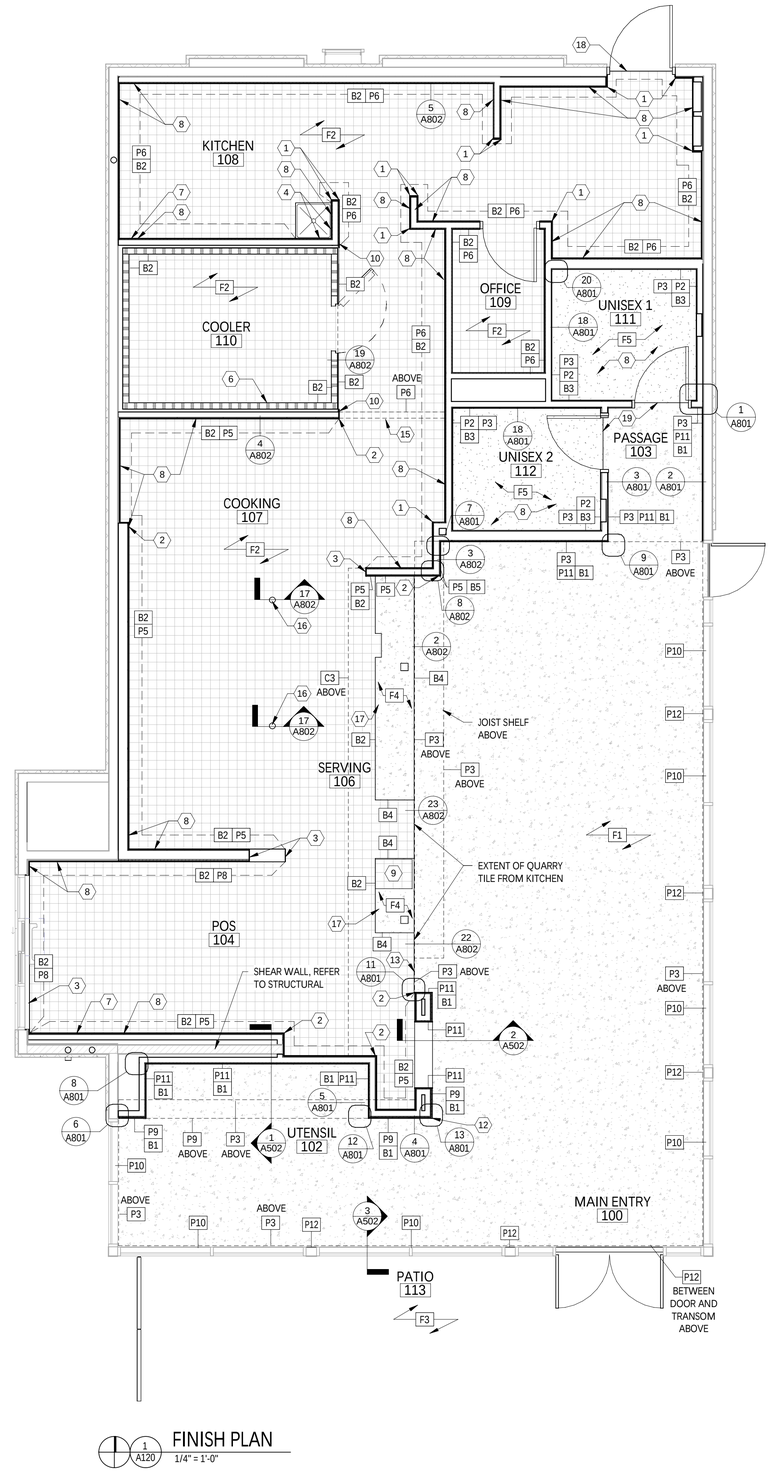
1. STONEWOOD WALL PANELS AND WAINSCOT PROVIDED BY TMS, INSTALL BY GC.
2. SPALTED MAPLE PANELS PROVIDED BY TMS, INSTALLED BY GC.
3. GC IS RESPONSIBLE FOR SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES).

FINISH LEGEND

FLOOR FINISHES		WALL BASE FINISHES		WALL FINISHES		CEILING/DECK FINISHES		DOOR FINISHES	
LGD. #		LGD. #		LGD. #		LGD. #		LGD. #	
F1	POLISHED CONCRETE	B1	BLACK RUBBER, COVELESS	P1	PLYWOOD, VERTICAL GRAIN	C1	OPEN TO STRUCTURE, UNPAINTED	D1	PAINT "BLACK"
F2	QUARRY TILE	B2	QUARRY TILE, COVE	P2	FIBERGLASS REINFORCED PANELS TO 4'-0" AFF (SMOOTH FINISH)	C2	STONEWOOD	D2	PAINT "KNIGHT'S ARMOR"
F3	EXTERIOR CONCRETE	B3	BLACK RUBBER, COVE	P3	GYP BD; PAINT "THIN ICE", EGGSHELL, REFER TO A701 AND A710	C3	GYP BD; PAINT "MOONLIT SNOW"		
F4	SEALED CONCRETE	B4	QUARRY TILE, COVELESS	P4	NOT USED	C4	2X4 VINYL-FACED LAY-IN		
F5	RESINOUS FLOORING	B5	CERAMIC TILE	P5	CERAMIC TILE - WHITE				
				P6	FIBERGLASS REINFORCED PANELS (PEBBLED FINISH)				
				P7	NOT USED				
				P8	CERAMIC TILE - BRONZE ACCENT 3" x 12"				
				P9	SPALTED MAPLE WALL PANEL, HORIZONTAL GRAIN				
				P10	STOREFRONT				
				P11	STONEWOOD WALL PANEL				
				P12	PREFINISHED BRAKE METAL				

ROOM FINISH SCHEDULE

100	MAIN ENTRY	F1	B1	REFER TO PLAN FOR WALL FINISHES	C1	STR	SEE SHEET A701 AND SPECIFICATION SHEETS
101	DINING	F1	B1		C1	STR	SEE SHEET A701 AND SPECIFICATION SHEETS
102	UTENSIL	F1	B1		C2	±8'-1 3/4" / ±9'-1 3/4"	SEE SHEET A701 AND SPECIFICATION SHEETS
103	PASSAGE	F1	B1		C3	10'-0"	SEE SHEET A701 AND SPECIFICATION SHEETS
104	POS	F2	B2/B4		C3 /C4	±9'-0" / ±9'-4"	SEE SHEET A702 AND SPECIFICATION SHEETS
105	ORDERING	F1	B1/B4/B5		C1/C3	STR / ±9-0"	SEE SHEET A701 AND SPECIFICATION SHEETS
106	SERVING	F2	B2		C3	±9'-0"	SEE SHEET A702 AND SPECIFICATION SHEETS
107	COOKING	F2	B2		C3 /C4	±9'-0" / ±9'-4"	SEE SHEET A702 AND SPECIFICATION SHEETS
108	KITCHEN	F2	B2		C4	10'-0"	SEE SHEET A702 AND SPECIFICATION SHEETS
109	OFFICE	F2	B2		C4	9'-0"	EXTEND SHEATHING TO STRUCTURE
110	COOLER	F2	B2		STR	STR	CEILING HEIGHT & FINISHES PER MANUFACTURER
111	UNISEX 1	F5	B3		C3	8'-0"	SEE SHEET A710 AND SPECIFICATION SHEETS
112	UNISEX 2	F5	B3		C3	8'-0"	SEE SHEET A710 AND SPECIFICATION SHEETS
113	PATIO	F3	-		-	-	-



1 A120 FINISH PLAN
1/4" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
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(817) 820-0433

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REGISTERED ARCHITECT · TAYLOR R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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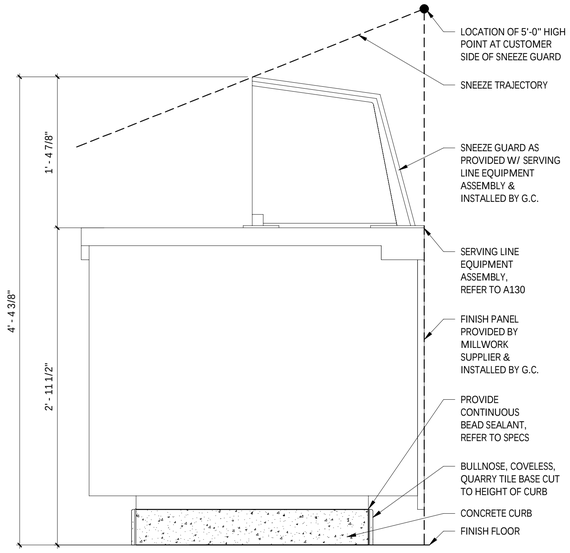
FINISH PLAN

A120

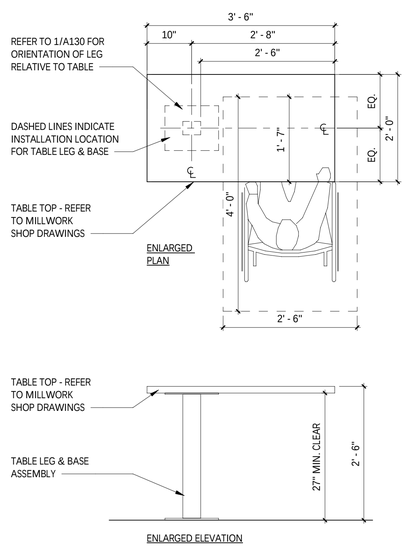
AREA & SEAT COUNT		CHIPOTLE CUSTOMER COUNT
INSIDE	2,325 S.F.	44
PATIO	500 S.F.	20
TOTAL	2,825 S.F.	64

GENERAL NOTES - FF&E

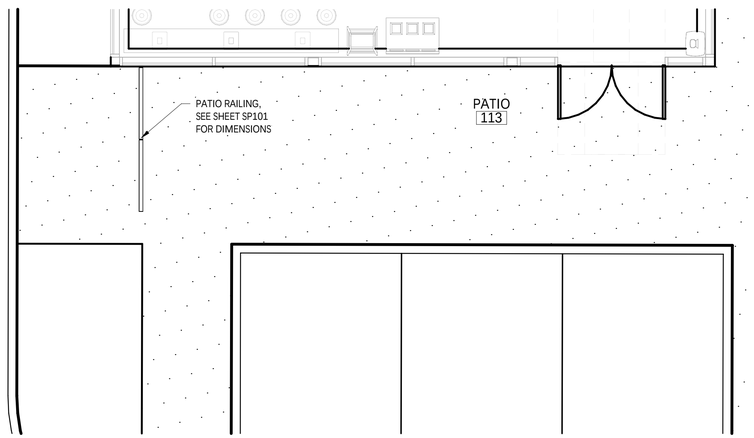
1. REFER TO SHEETS A131 AND A132 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. ALL DIMENSIONS ARE TO FACE OF FRAMING, EDGE OF EQUIPMENT OR CENTERLINE OF EQUIPMENT UNLESS NOTED OTHERWISE.
3. ALL FURNITURE TO BE SQUARE/PARALLEL TO TENANT SPACE/WALLS AS SHOWN ON PLANS



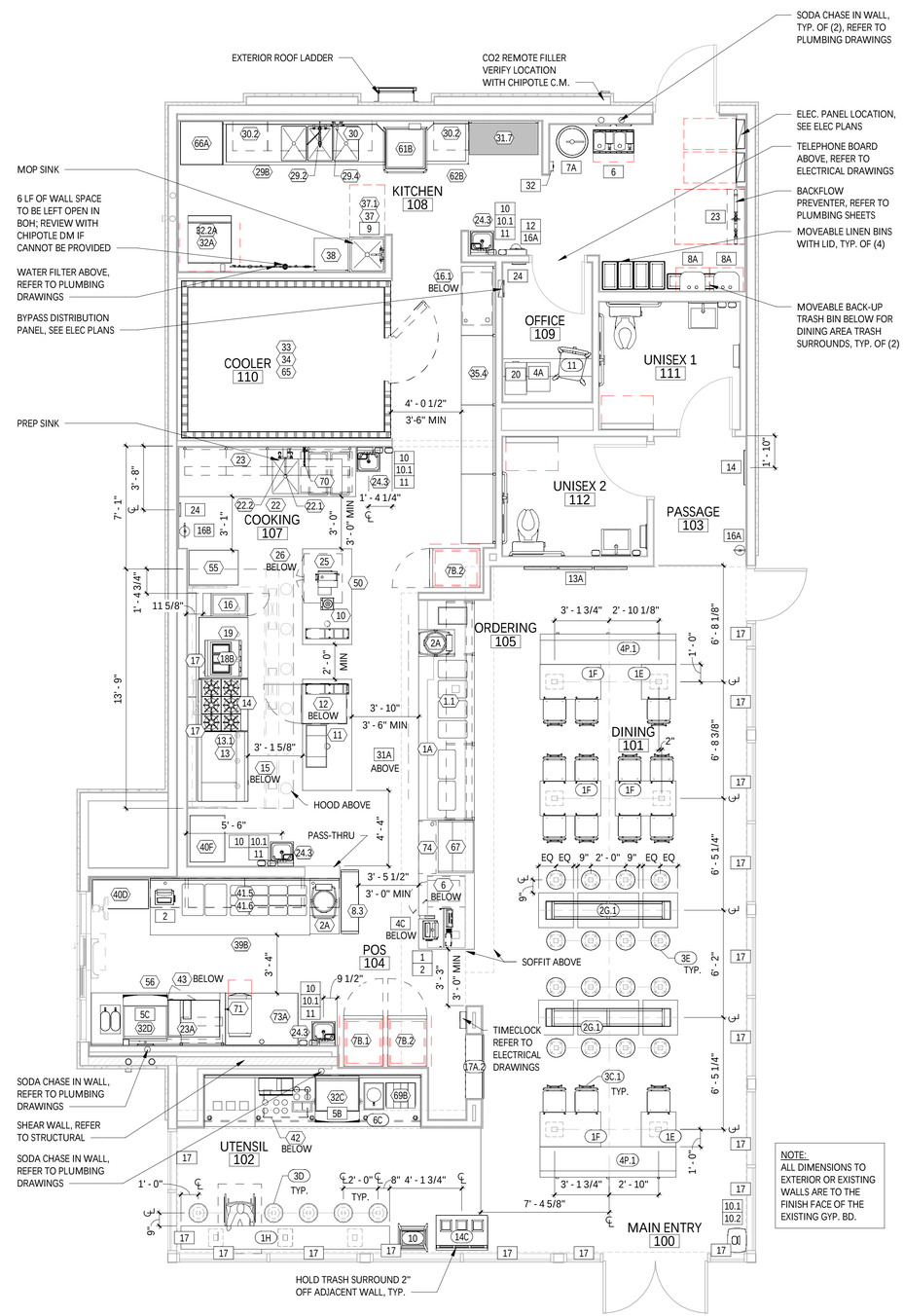
4 A130 DETAIL @ SERVE LINE SNEEZE GUARD
1 1/2" = 1'-0"



3 A130 DETAIL @ ACCESSIBLE TABLE
3/4" = 1'-0"



2 A130 FURNITURE, FIXTURE & EQUIPMENT PATIO PLAN
1/4" = 1'-0"



1 A130 FURNITURE, FIXTURE & EQUIPMENT PLAN
1/4" = 1'-0"

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Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.: CMG5134

Contents:

FF&E PLAN

A130

KITCHEN EQUIPMENT LIST

ITEM #	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
							ELEC	GAS	WATER	SEWER	
1.1	Sneeze Guard Serve Line 12 Pan (Right)	BSI	Custom-R	1	TMS	TMS/GC					
1A	Front Serve Line - 12 Pan - RTD - POS Right	Delfield	12 Pan Serve Line POS RTD_241x38.5in (Right)	1	KES	KES; GC	●			●	Installed On Concrete Curb
2A	Tortilla Warmer	Caliente Industries	A2	2	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
6	Cup Dispenser	Dispense-Rite	CHIP-ECL-3B	1	KES	KES; GC					Installed At POS Counter
7B.1	Upright Beverage Cooler, Single Door, Hinge Left	Varies	Varies - Solid Door	1	KES	KES	●				
7B.2	Upright Beverage Cooler, Single Door, Hinge Right	Varies	Varies - Solid Door	2	KES	KES	●				
8.3	M4.5 Chip Shelf	Trimark	Custom	1	KES	KES					
10	Blender	Vitamix	748	1	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
11	Carving Station - 77x34in - Horizontal Well - Right	Delfield	77x34in Carving Station-RT	1	KES	KES	●				
12	Undercounter Refrigerator	Varies	Varies	1	KES	KES	●				
13	Grill 48in - Natural Gas - Divider Left	Woodstone	WS-PL-48-36-4-CT-Left	1	KES	KES	●	●			
13.1	Woodstone Grease Splash Guard	Nationwide Fab; Marlo Mfg	CHP-GCG-GSG	1	KES	KES					Verify If Required
14	Range 6 Burner - Natural Gas	Garland	U36-6S	1	KES	KES		●			
15	Woodstone Grill Stand 48x31in - Divider Left	Woodstone	000-PL-STAND-CASTER	1	KES	KES					
16	Fryer - Gas - Standard Efficiency	Varies	Varies	1	KES	KES	●	●			Mounted On Legs, G.C. To Pin Front Legs To Floor
16.1	Grease Caddy	Varies	Chipotle Grease Caddy - RH	1	KES	KES					
17	Cook Line Stand Off - 72x6	Nationwide Fab; Marlo Mfg	CHP-72WS-6	2	KES	KES					Mount Top of Flat Surface at 33" AFF, Install Screws at Each Stud Location, Provide Blocking To Mount To Wall
18B	Gas Rice Cooker	Woodstone	WS-GRC-60	1	KES	GC	●	●			Final Connection by GC. RE:Mechanical Drawings
19	Rice Cooker Stand - Left	Nationwide Fab; Marlo Mfg	CHP-RCS-42ES-34	1	KES	KES					
22	Prep Sink - Corner - Left	Trimark	S1-122x34-US-FF-L	1	KES	GC				●	
22.1	Prep Sink Faucet Big Flow Faucet	T&S	B-0293-01	1	KES	GC			●		
22.2	Prep Sink Vegetable Wash Faucet	T&S	B-0730	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
22.3	Prep Sink Drain Assembly	T&S	B-3950	1	KES	KES; GC				●	
23	4 Shelves - 120in Prep Sink	Amco	CHPPS120	1	KES	KES					Mount Bottom Of Standard At 50" AFF. Provide Plywood Blocking To Mount To Wall.
23A	2 Shelves - 30in	Amco	Custom	1	KES	KES					Mount Bottom Of Standard At 50" AFF. Provide Plywood Blocking To Mount To Wall.
24.3	Hand Sink Wall Mounted - Splash Both	Universal Stainless	EHS-1RL-NF	4	KES	GC				●	Provided with B-0199-06-F10, 1.0 GPM Aerator, Provide Plywood Blocking To Mount To Wall
24.5	Kitchen Hand Sink Faucet Splash Mount	T&S	B-1146-04	4	KES	GC			●		
25	Rice Prep Table Island 66x34	Nationwide Fabrication; Marlo Mfg	Custom Table 66x34in	1	KES	KES					
26	Hot Holding Cabinet - Double Door (Rice)	Food Warming Equipment (FWE)	HLC-1220-8-8-CHP	1	KES	KES	●				
29.2	Dish Sink Add-A-Faucet w/ Pre-Rinse	T&S	B-1033-12CRBJSK Substitute Sprayer B-0107-J-SWV	1	KES	GC			●		
29.3	Dish Sink Drain Assembly	T&S	B-3950	3	KES	KES; GC				●	
29.4	Dish Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
29B	3 Comp Sink - 18x24in Bowls - 111 3/4in	Nationwide Fabrication; Marlo Mfg	S3-30x111.75x36.5-FF	1	KES	GC				●	
30	Shelving System - 3 Comp Sink	Amco	WST1879S	1	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking
30.2	Shelving System - Dish Table	Amco	WST1879S	2	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking. Mount Tight To Dish Machine
31.7	Drying Racks 23x48x85in - With Vented Aluminum Covers	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall
32.1A	Ice Maker - Remote Condenser	Hoshizaki	URC-5FZ	1	KES	KES	●				Condensing Units To Be Secured To The Roof Per Code By GC
32.1B	Ice Maker - Remote Condenser	Hoshizaki	URC-9FZ	1	KES	KES	●				Condensing Units To Be Secured To The Roof Per Code By GC
32.2A	Ice Maker - Storage Bin	Hoshizaki	B500SF	1	KES	KES				●	
32.3	Icemaker- Filter	Cuno	Bev 190	3	KES	KES			●		
32.4	Ice Maker - Scale Inhibitor	Cuno	CFS440-HT	3	KES	KES			●		
32A	Ice Maker For B.O.H. Ice Bin (Shorter)	Hoshizaki	KML-700MRJZ	1	KES	KES	●		●		Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
32C	Ice Maker Mounted On Soda Machine - Air Cooled	Hoshisaki	KMD-530MAJ	1	KES	KES	●		●	●	Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
32D	Ice Maker Mounted On Soda Machine - Remote Air Cooled	Hoshisaki	KMD-530MRJZ	1	KES	KES	●		●	●	Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
33	Walk In Cooler 9x12x9ft 6in - Standard	Manitowoc/Norlake	CHP912SR-RS	1	WCS	GC	●			●	Refer To Plumbing and Mechanical Drawings; Refrigeration By Tenant; Remote Exterior Compressor Unit To Be Secured To Roof Per Code By GC
34	Walk-In Cooler Shelving System - 9x12x9	Cambro (Camshelving)	CHP912ER	1	KES	KES					
35.4	Dry Storage Racks 23x192x85in	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
37	Mop Sink Faucet	T&S	B-0660-BSTR	1	KES	GC			●		
37.1	Mop Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
38	6 Shelves - Chemical Storage Rack	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
39B	DML 2.0 130in – Right – W/POS & Cash Drawer	Franke/Delfield	DML 2.0_RT-130x39	1	KES	KES	●			●	
39B.1	DML 2.0 Wall Trim Package	Franke/Delfield	DML 2.0 Trim Kit	1	KES	KES					
40D	Holding Shelf	Trimark	TGS-39X20X80-B	1	KES	KES	●				
40F	M4.5 - Filler Stand At Range	Select Stainless	24x32x36	1	KES	KES					
41.5	DML 2.0 Shelving - 130in - Top Shelf	Franke/Delfield	CH000A32	1	KES	KES					Mount Bottom Of Shelf At 74 1/2" AFF. Provide Plywood Blocking To Mount To Wall.
41.6	DML 2.0 Shelving - 130in - Bottom Shelf	Franke/Delfield	CH000A34	1	KES	KES					Mount Bottom Of Lowest Portion Of Shelf At 54 1/2" AFF. Provide Plywood Blocking To Mount To Wall.
42	Shelving System Under Counter Beverage Station	ISS	WST1810CLR	1	KES	KES					Mounted on (4) casters, All casters to be swivel type, Front (2) casters to have brake, Located under utensil counter
43	Beverage Cooler Backbar 36in	Glasstender	LP36X-SS(X)	1	KES	KES	●				
50	Food Processor	Sammic	CA-31	1	KES	KES					
55	Filler Table - 24x34in	Trimark	TS-24x34x36-US-C	1	KES	KES					
56	Beverage Table - Chipotlane	Trimark	TS-36x92.5x36	1	KES	GC	●			●	
61B	Dish Machine (w/Pump)	Hobart	AM16SCB	1	KES	KES	●		●	●	
62B	Dish Table 30x30	Trimark	CDT-30X30X36.5-B	1	KES	GC					
65	Utility Cart (Not Shown)	Select Stainless	30SU-22-14-C4-TUBS-CUSTOM	1	KES	GC					Provided As Part Of The WIC Shelving
66A	Drop-Off Table - 29x30in	Trimark	TS-29x30x31-US-C	1	KES	KES					
67	Refrigerated Counter Case, Self-Serve	Structural Concepts	CO3324R-UC	1	KES	KES					
69B	M4.0 - Simplicity Bubbler Mini-Quad	Crathco	CS-4E-16	1	KES	GC	●			●	
70	Speed Fill Faucet	T&S	B-0432 MOD	1	KES	GC			●		
71	Quesadilla Press	Turbochef	Sota Touch	1	KES	KES	●				
73A	50" TurboChef Table	Trimark	50X36X36	1	KES	KES					
74	Shelving - Under Counter - 12x36x29in	Metro	Custom	1	KES	KES					

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Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.: CMG5134

Contents:

EQUIPMENT SCHEDULE

A131

MISC EQUIPMENT LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1	Point of Sale Display	1	TMS	GC					Installed at POS Station
2	Point-Of-Sale System	2	T	TCC					Coordinate Requirements With Tenant and Elec. Drawings
4A	B-Rate (Standard Safe)	1	TS	GC					Installed in Office
4C	Smart Safe	1	TSS	TSS	●				To Be Installed On Curb Under Serveline, Bolt to Curb Under Serveline POS
5B	Soda Dispenser - With Air-Cooled Ice Maker	1	SPS	SPS	●			●	Drain to Floor Sink, Tenant Millwork Supplier to Provide (2) Adjustable Legs to Support Dispenser From Under The Utensil Counter
5C	Soda Dispenser - With Remote Air-Cooled Ice Maker	1	SPS	SPS	●			●	Drain to Floor Sink, Tenant Millwork Supplier to Provide (2) Adjustable Legs to Support Dispenser From Under The Utensil Counter
6	Soda System Syrup Rack with Carbonator on Stainless Steel Shelf	1	SPS	SPS	●		●		
7A	Bulk CO2 Tank	1	CO2	CO2	●				GC To Secure Cylinders To Wall With Grade 30 Galvanized Steel Chain At 2/3 The Height Of The Cylinder. Attach To Wall With Stainless Steel Quick Link And Screw Eye
8A	Gas Tankless Water Heater	2	GC	GC		●	●	●	Refer to MEP Drawings
9	Mop Sink, See Plumbing Drawings	1	GC	GC			●	●	See Plumbing Drawings
10	Touch-Free Soap Dispenser	4	WA	GC					
10.1	Hand Sanitizer Dispenser	5	WA	GC					
10.2	Hand Sanitizer Stand	1	WA	GC					
11	Paper Towel Dispenser, Bobrick B262	4	WA	GC					Provide Plywood Blocking to Mount to Wall
12	First Aid Kit	1	T	GC					Confirm Location With Chipotle CM Prior To Installation
13A	M4.0 - Artwork Panel - Plaster 2Hx, Start Pattern At Column 1	1	TAS	GC					Provide Plywood Blocking to Mount to Wall
14	License Frame	1	T	GC					Provide Plywood Backing In Wall At License Frame Location, Refer To Arch. Floor Plans And Elevations For License Frame Location.
16A	Fire Extinguisher Type ABC - B456	2	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
16B	Fire Extinguisher Type K	1	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
17	Window Shades	16	WS	WS					See Sheet A130 For Location & Size (When Used)
19	Hat & Coat Strips (Not Shown)	1	WA	GC					Provide Plywood Blocking to Mount to Wall
20	2-Drawer File Cabinet, By Tenant	1	T	T					By Tenant
23	Backflow Preventer	1					●	●	See MEP Sheets for Details
24	iPAD Wall Station	2	T	GC	●				Tablet By Tenant, Refer to Electrical Drawings
28	Mop Strip (Not Shown)	1	T	GC					Provide Plywood Backing To Mount To Wall, 2 Hole At Mop Basin and 6 Hole In Kitchen
31A	21inx31in Menu System	1	TMB	GC					
32	CO2 Alarm	1	CO2AS	GC	●				Refer to Electrical Drawings for Additional Details
33A	M4.0 - Pick-Up Sign - Single Faced - Flush Mounted - Face	1	TSV	GC					

FURNITURE LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1E	M4.0 - Table 24x24in - Rectangular Base	2	TMS	GC					
1F	M4.0 - Table 24x42in, Rectangular Base (Accessible)	4	TMS	GC					See Detail On A130
1H	M4.0 - Community Table - Low - Window - Length Varies	1	TMS	GC					
2G.1	M4.0 - Bar Height Table 8-Top, With Footrest	2	TMS	GC					One Coat Hook Per Two Seats, Confirm Mounting Location With Shop Drawings
3C.1	M4.0 - Dining Room Chair	14	TMS	GC					
3D	M4.0 - Marshmallow Stool - Fixed	5	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
3E	M4.0 - Bar Stool - Fixed	16	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
4P.1	Banquette Bench (Black) - Floor Mount	2	TMS	GC					
6C	M4.0 - Beverage Counter - With Trash - 4" Splash - 149"	1	TMS	GC				●	Coordinate Floor Drain Installation with Utensil Counter Installation, Bins and Sign Hooks Provided by Tundra in Smallwares Package, Install Hooks on Back of Doors
10	Child's High Chair	1	T	GC					
11	Office Chair, By Tenant	1	T	T					By Tenant
14C	M4.0 - 3 Bin Trash/Recycling Surround - Interior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
17A.2	MOPUS Shelving - 44"	1	TMS	GC					GC To Provide Blocking In Walls At The Ends Of The MOPUS Shelf To Secure Shelves, Wood Edge Of The Shelves To Face The Dining Room

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Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

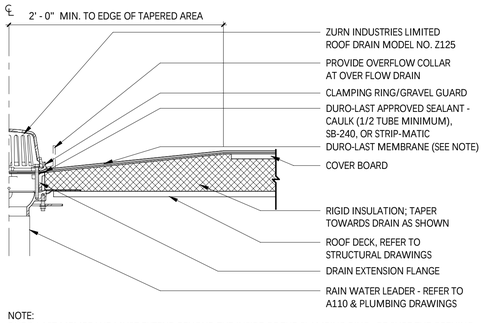
Drawn: S. CLARK
Checked: T. GRANDORF

Project No.: CMG5134

Contents:

EQUIP. & FURNITURE SCHEDULE

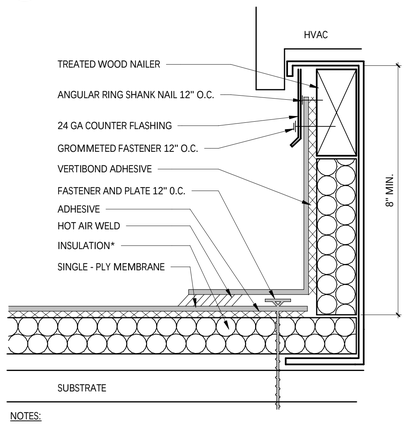
A132



NOTE:
DURO-LAST MEMBRANE MUST EXTEND BEHOND THE INSIDE OF THE CLAMPING RING. BE SURE THE OPENING WHERE WATER PASSES THROUGH THE MEMBRANE IS NOT SMALLER THAN THE OPENING OF THE DRAIN.

4 A140 ROOF DRAIN DETAIL

1 1/2" = 1'-0"

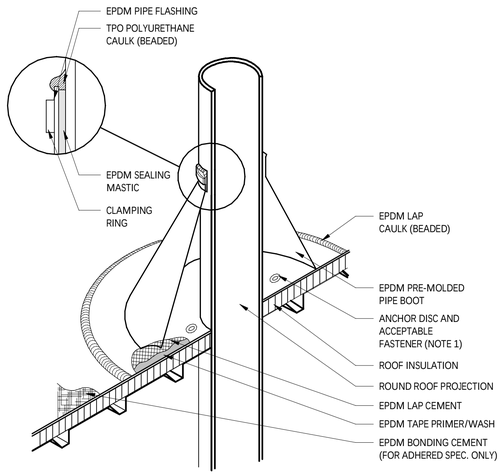


NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. USE PREFABRICATED OUTSIDE CORNERS.
4. INSULATION MUST BE SECURELY FASTENED.
5. *GLASS - FACED POLYISO INSULATION IS OPTIONAL AND MAY NOT BE REQUIRED ON EVERY PROJECT. IF INSULATION IS NOT REQUIRED, THE MEMBRANE MUST BE ADHERED TO AN APPROVED SURFACE.

3 A140 CURB FLASHING

1/2" = 1'-0"



NOTE:

1. WITH MECHANICALLY FASTENED OR BALLASTED SPECIFICATIONS, MEMBRANE MUST BE MECHANICALLY ATTACHED WITH 2" (50 mm) ANCHOR DISC AND ACCEPTABLE FASTENERS (MINIMUM OF 4 PER PIPE).
2. DO NOT OVERLAP THE FLANGES FROM ADJACENT PIPE FLASHINGS.
3. ANY SEAM UNDER BOOT FLANGE TO BE TREATED AS T-JOINT.
4. BOTH SURFACES TO BE MATED MUST BE CLEANED WITH TAPE PRIMER/WASH. EPDM TAPE PRIMER/WASH MUST BE COMPLETELY DRY AND TACK FREE BEFORE APPLYING EPDM LAP CEMENT.

2 A140 BOOT DETAIL

1/2" = 1'-0"

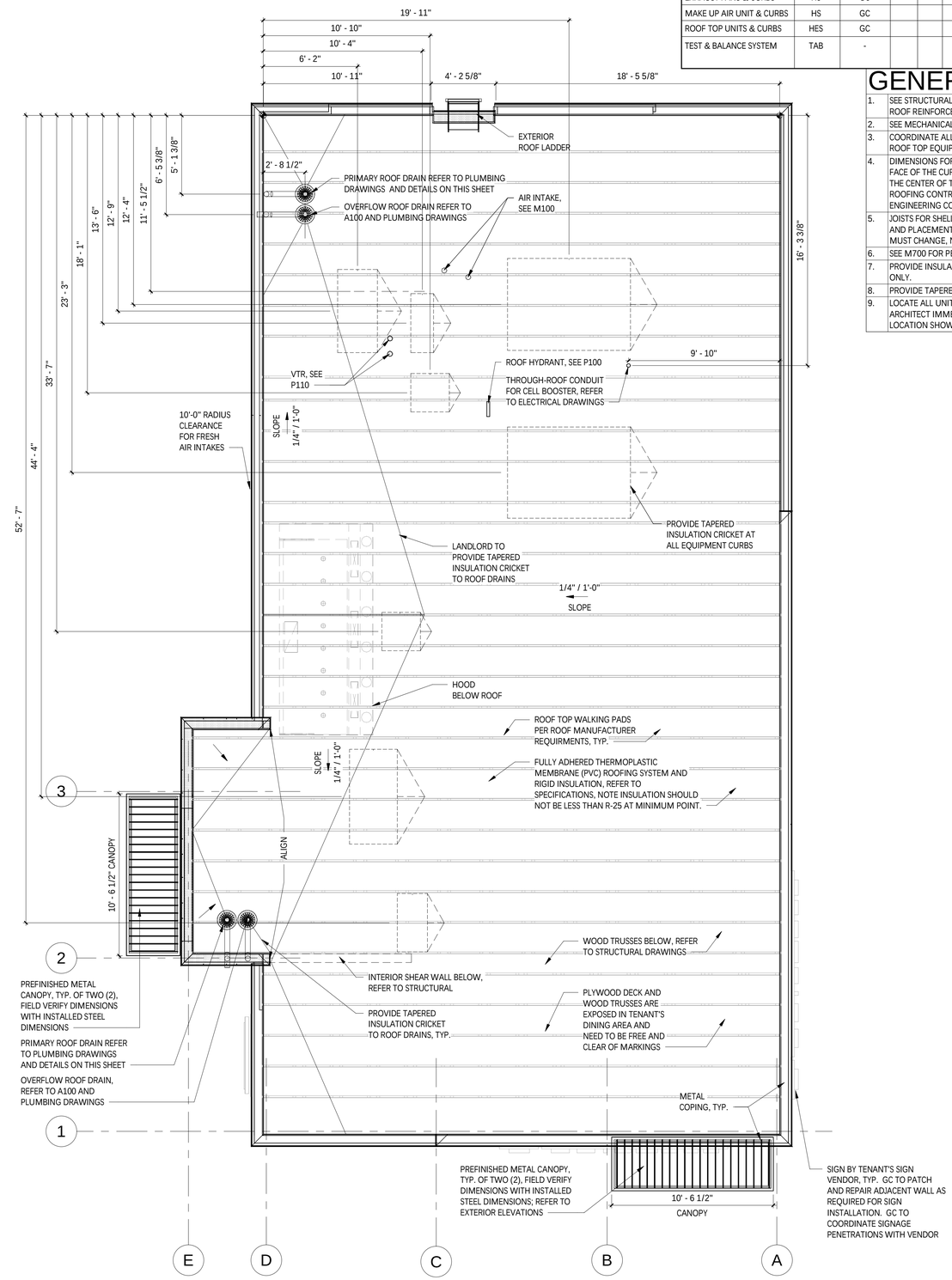
HVAC EQUIPMENT

NOTE: UTILITIES BY GC, REFER TO MECHANICAL DRAWINGS.

DESCRIPTION	SUPPLIED BY	INSTALLED BY	UTILITY ELEC	UTILITY GAS	UTILITY WATER	UTILITY SEWER	REMARKS
EXHAUST FANS & CURBS	HS	GC					CURB FURNISHED BY HS, INSTALLED BY GC
MAKE UP AIR UNIT & CURBS	HS	GC					CURB FURNISHED BY HS, INSTALLED BY GC
ROOF TOP UNITS & CURBS	HES	GC					CURB FURNISHED BY HS, INSTALLED BY GC
TEST & BALANCE SYSTEM	TAB	-					FURNISH HVAC TEST & BALANCE PER TENANT'S NATIONAL ACCOUNT PROGRAM.

GENERAL ROOF NOTES

1.	SEE STRUCTURAL DRAWINGS FOR LOCATIONS AND SIZE OF STRUCTURAL ROOF REINFORCEMENTS.
2.	SEE MECHANICAL PLANS FOR ROOF TOP EQUIPMENT.
3.	COORDINATE ALL ROOF PENETRATIONS, FLASHING, AND REPAIR W/ TENANT ROOF TOP EQUIPMENT PRIOR TO COMMENCEMENT OF WORK.
4.	DIMENSIONS FOR ROOF TOP EQUIPMENT WITH CURBS IS TO THE OUTSIDE FACE OF THE CURB. DIMENSIONS FOR EQUIPMENT WITHOUT CURBS ARE TO THE CENTER OF THE UNIT. ALL DIMENSIONS ARE FOR REFERENCE ONLY. ROOFING CONTRACTOR TO ADJUST AS NECESSARY IN FIELD. CONTACT ENGINEERING CONSULTANTS FOR ANY MAJOR MODIFICATIONS TO LAYOUT.
5.	JOISTS FOR SHELL BUILDING ARE TO BE DESIGNED FOR THE RTU WEIGHTS AND PLACEMENT EXHIBITED. IF LOCATION OR ORIENTATION OF A UNIT MUST CHANGE, NOTIFY ARCHITECT IMMEDIATELY.
6.	SEE M700 FOR PENETRATION DETAILS AT RTUS AND THE EXHAUST FAN.
7.	PROVIDE INSULATED CURBS FOR ALL EQUIPMENT IN EXPOSED DECK AREA ONLY.
8.	PROVIDE TAPERED INSULATION CRICKET AT ALL EQUIPMENT CURBS.
9.	LOCATE ALL UNITS SO DUCT DROPS BETWEEN TRUSS JOISTS. NOTIFY ARCHITECT IMMEDIATELY IF ANY UNITS NEED TO SHIFT FROM PLAN LOCATION SHOWN.



1 A140 ROOF PLAN

1/4" = 1'-0"

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Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.: CMG5134

Contents:

ARCHITECTURAL ROOF PLAN

A140

RCP GENERAL NOTES

1.	ALL INTERIOR LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER.
2.	ALL INTERIOR LIGHT FIXTURES AND LAMPS INSTALLED BY GC. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
3.	KITCHEN EXHAUST HOOD PROVIDED BY HS AND INSTALLED BY GC. GC TO COORDINATE PRESSURE TEST AND VIRO GUARD WITH ENVIROMATIC, INC.
4.	ANSUL BOX & FIRE SUPPRESSION SYSTEM PROVIDED BY AND INSTALLED BY HS. HOOD INTERLOCK BY GC. ELECTRICAL CONNECTION BY GC, RE: ELEC.
5.	MENU BOARD ASSEMBLY PROVIDED BY TMB, INSTALLED BY G.C.
6.	PROVIDE BLOCKING ABOVE MENU BOARD ASSEMBLY FOR INSTALLATION.
7.	REFER TO "09900 PAINTING - GENERAL" IN SPECIFICATIONS FOR FINISHES AT EXPOSED CEILING AREAS IN ADDITION TO NOTES LISTED ON THIS SHEET AND A120.
8.	UNISTRUT TO BE LEFT UNPAINTED. PROVIDE MATCHING CLOSER STRIPS AND END CAPS. CLOSER STRIP TO BE APPLIED TO THE UNDERSIDE OF THE UNISTRUT.
9.	ALL HEIGHTS ARE TO BOTTOM OF FIXTURE UNLESS NOTED OTHERWISE.
10.	LIGHT DETAILS ARE LOCATED ON SHEET A210. FIXTURE AND LAMP SPECIFICATIONS ARE LOCATED ON E100.
11.	ALL UNISTRUT SUPPORTING CEILING ELEMENTS AND/ OR DUCT WORK SHALL NOT CONTAIN ANY ELECTRICAL CONDUIT. ALL ELECTRICAL CONDUIT MUST RUN IN SEPARATE UNISTRUT.
12.	ALL UNISTRUT, CONDUIT, SPRINKLER & WATER LINES SHALL BE INSTALLED TIGHT TO THE BOTTOM OF THE DECK OR AS SHOWN IN DETAILS AND LEFT UNPAINTED
13.	ALL WATER LINES AND EXPOSED PVC SHALL BE INSTALLED IN TRUSS SPACE AND PAINTED VICTORIAN PEWTER.
14.	ALL DIMENSIONS ARE TO FACE OF FRAMING, OR CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
15.	SEE ELECTRICAL DRAWINGS FOR SHATTER RESISTANT LAMP LOCATIONS.
16.	ALL EMERGENCY FIXTURES, LIGHTS AND STROBES SHALL BE ALIGNED OR CENTERED ON WALLS.
17.	FULL CERAMIC TILE COURSING SHALL TAKE PRECEDENT OVER ANY CEILING/HEADER DIMENSION INDICATED IN THE PLAN, REFER TO A120.
18.	ALL CONDUIT AND PIPE PENETRATIONS OF THE SERVING LINE SOFFIT ARE TO BE HELD TIGHT TO THE DECK. PLEASE CONSULT WITH THE CHIPOTLE CM SHOULD ANY CONFLICTS ARISE.
19.	BATT INSULATION TO BE INSTALLED ABOVE THE RESTROOM CEILING.
20.	ALL LAY-IN CEILING PENETRATIONS TO BE HELD TIGHT TO WALLS. REFER TO 4/A210 AND PLUMBING DRAWINGS FOR DETAILS.
21.	REFER TO STRUCTURAL DRAWINGS FOR HOOD SUSPENSION DETAILS.
22.	ALL EXTERIOR BUILDING MOUNTED AND PATIO LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER, U.N.O.
23.	ALL EXTERIOR PARKING LOT LIGHT FIXTURES AND LAMPS PROVIDED BY AND INSTALLED BY G.C. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
24.	ALL EXTERIOR BUILDING MOUNTED AND PATIO LIGHT FIXTURES AND LAMPS INSTALLED BY G.C. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
25.	SECURITY CAMERA LOCATIONS ARE ONLY APPROXIMATE LOCATIONS. FOR GUIDANCE ON THE SPECIFIC LOCATION/ORIENTATION OF THESE CAMERAS, REFER TO THE ENVYSION INSTALLATION GUIDE
26.	REFER TO A120 FOR FINISH SCHEDULE

SECURITY SYSTEM

*REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

SECURITY MONITOR	1	SSS	SSS	●				
SECURITY ALARM - MOTION DETECTORS	1	T.B.D.	T.B.D.	●				GC RESPONSIBLE FOR COORDINATING SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES)
72 HR SECURITY DVR	1	SSS	SSS	●				
CLOSED CIRCUIT T.V. CAMERA - OUTDOOR	2	SSS	SSS	●				INSTALL AT 9'-6" U.N.O.
CLOSED CIRCUIT T.V. CAMERA - INDOOR	6	SSS	SSS	●				

CONDUIT GUIDELINES

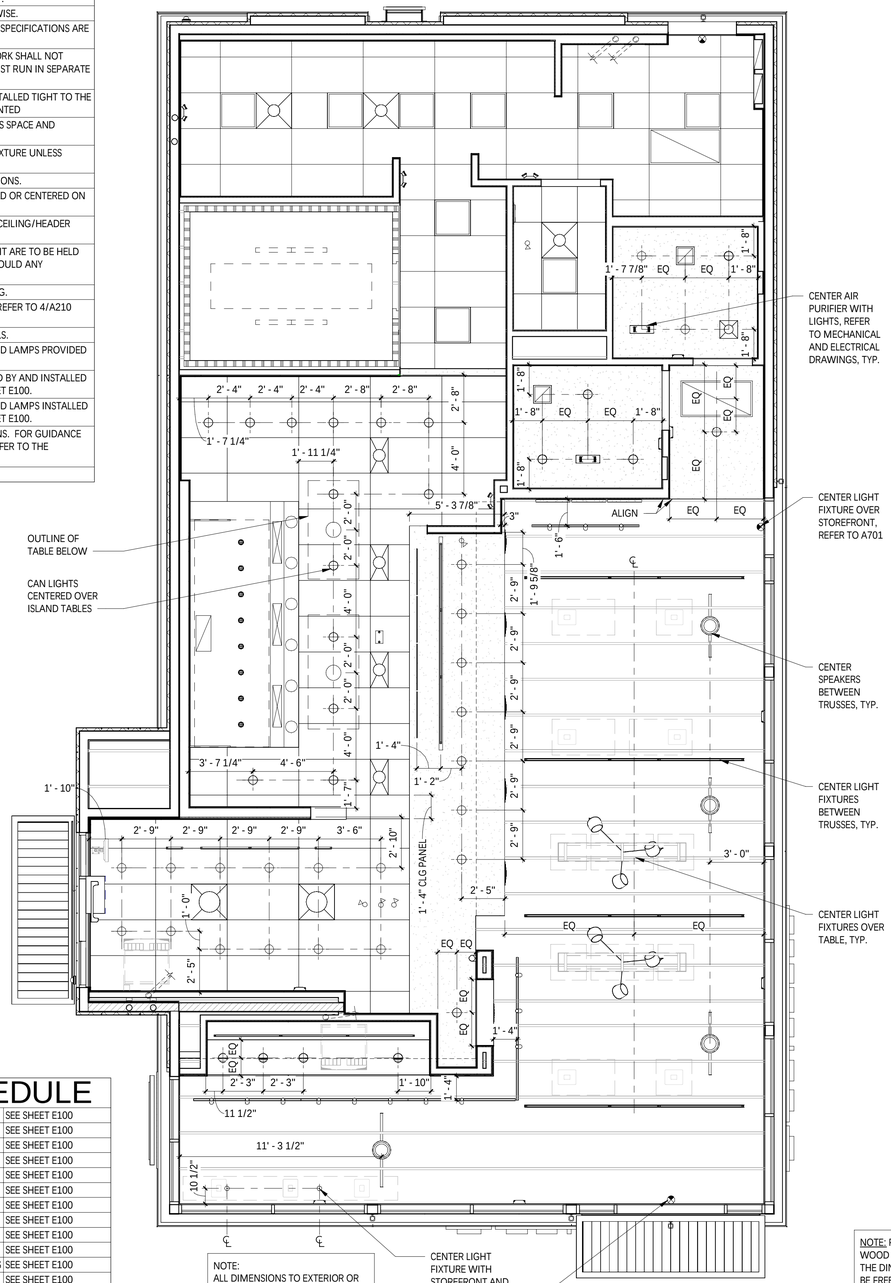
SEE ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS. METAL CLAD CABLE AND FLEXIBLE METAL CONDUIT SHALL NOT BE INSTALLED IN AREAS EXPOSED TO VIEW UNLESS SPECIFICALLY NOTED OTHERWISE.

SPEAKER SCHEDULE

SP1	4	DINING ROOM SPEAKER	BLACK	SUSPENDED	REFER TO A201 & E110 FOR DETAILS

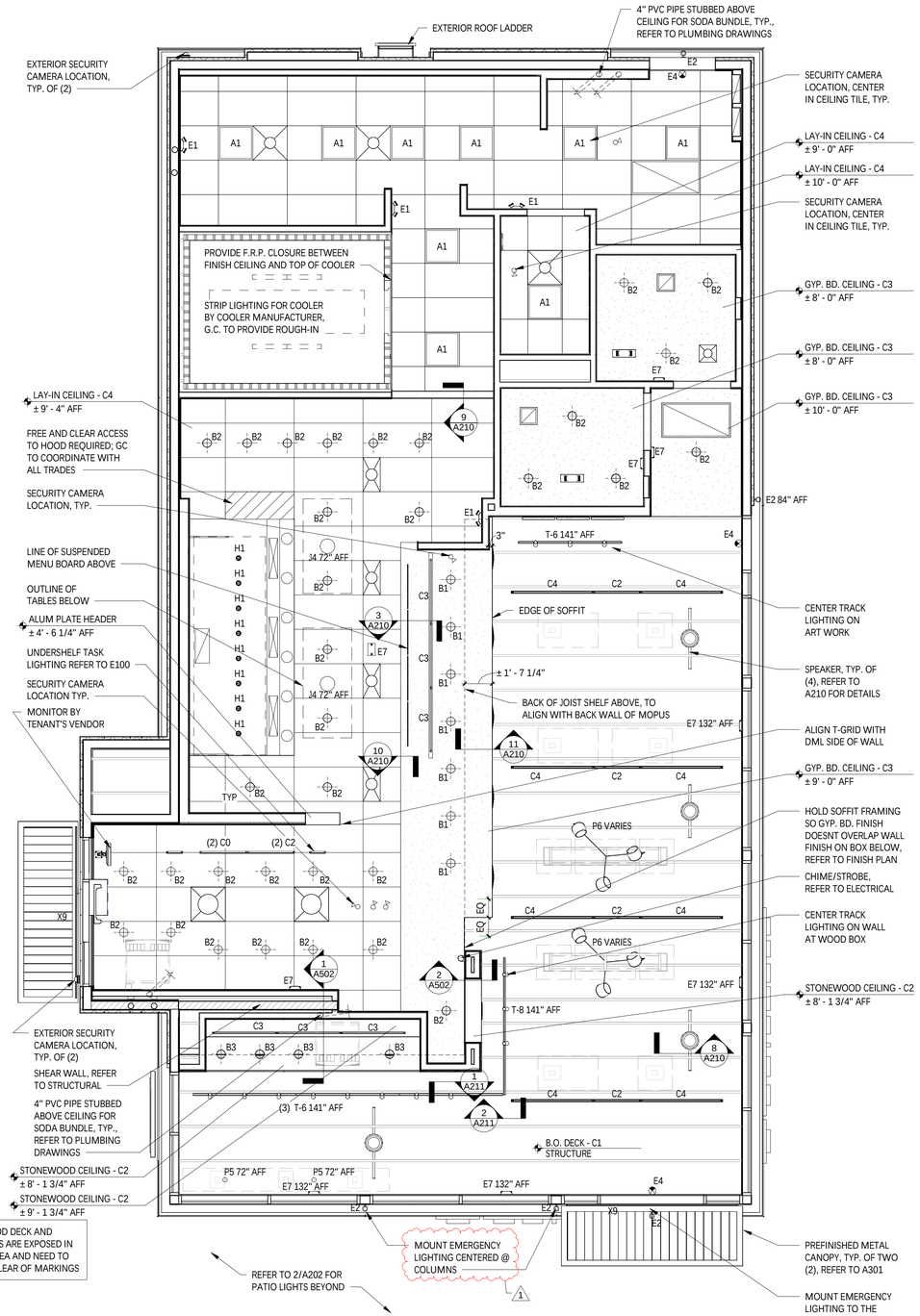
LIGHT FIXTURE SCHEDULE

A1	9	LAY-IN	2x2 LENSED TROFFER	SEE SHEET E100
B1	7	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B2	33	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B3	4	CEILING	M4.0 - RECESSED 6IN CAN LIGHT (BLACK)	SEE SHEET E100
C0	2	SURFACE	LOW PROFILE LED 1FT	SEE SHEET E100
C2	6	SURFACE	LOW PROFILE LED 3FT	SEE SHEET E100
C3	6	SURFACE	LOW PROFILE LED 4FT	SEE SHEET E100
C4	8	SURFACE	LOW PROFILE LED 5FT	SEE SHEET E100
E1	4	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
E2	5	VARIOUS	EMERGENCY LIGHT - SINGLE HEAD	SEE SHEET E100
E4	3	VARIOUS	WHITE EXIT LIGHT - STANDARD RED LETTERS	SEE SHEET E100
E7	9	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
H1	8	SURFACE	VAPOR PROOF HOOD LIGHT	SEE SHEET E100
J4	2	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P5	2	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P6	2	PENDANT	M4.0 - MULTI-PENDANT LIGHT	SEE SHEET E100 & A701
T1	14	TRACK	TRACK LIGHTING HEAD	SEE SHEET E100
T-6	4	SUSPENDED	M4.0 - TRACK 6'	SEE SHEET E100
T-8	1	SUSPENDED	M4.0 - TRACK 8'	SEE SHEET E100
X9	2	SURFACE	LED CHANNEL LIGHT	SEE SHEET E100



NOTE:
ALL DIMENSIONS TO EXTERIOR OR EXISTING WALLS ARE TO THE FINISH FACE OF THE EXISTING GYP. BD.

2 A201 DIMENSIONED REFLECTED CEILING PLAN
1/4" = 1'-0"



NOTE: PLYWOOD DECK AND WOOD TRUSSES ARE EXPOSED IN THE DINING AREA AND NEED TO BE FREE AND CLEAR OF MARKINGS

1 A201 REFLECTED CEILING PLAN
1/4" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · TAYLOR R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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STORE NO.: 5134
CROSS ROADS
11940 US HWY 380
CROSS ROADS, TX 76227

Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

1	07/14/24	REVISION 01

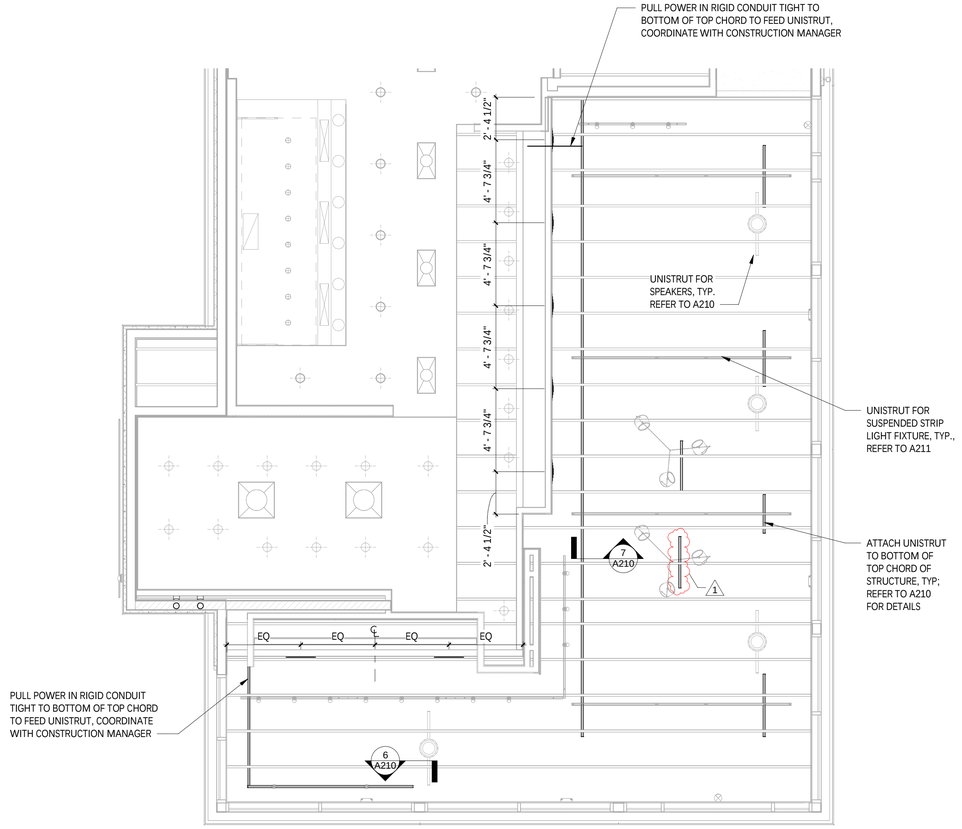
Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

Contents:
REFLECTED CEILING PLAN

A201

REFER TO A201 FOR GENERAL NOTES



1 A202 UNISTRUT AND DUCTWORK LAYOUT
1/4" = 1'-0"

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ROGUE ARCHITECTS

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30533
STATE OF TEXAS

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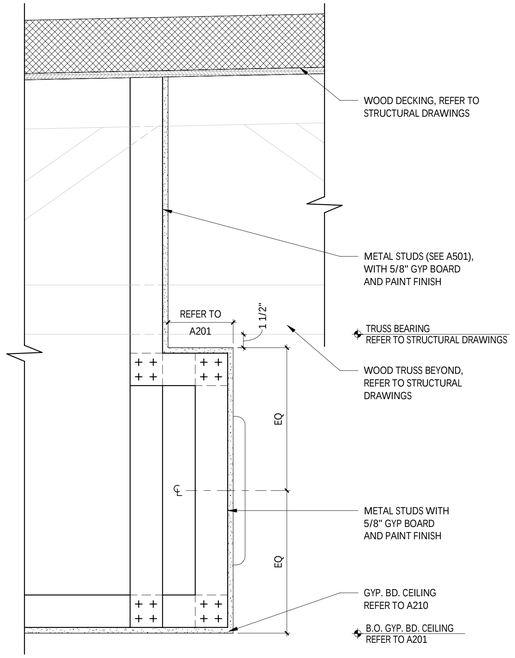
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Drawn: S. CLARK
Checked: T. GRANDORF

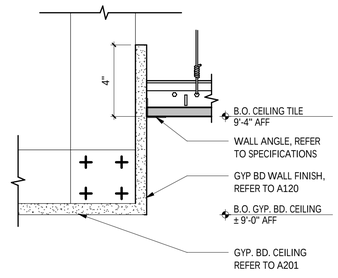
Project No.
CMG5134

Contents:
REFLECTED CEILING & UNISTRUT PLAN

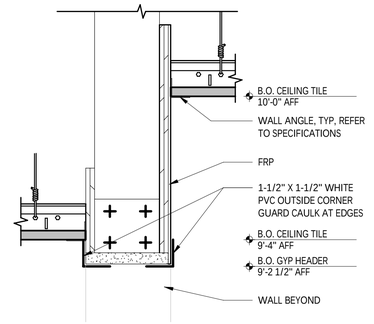
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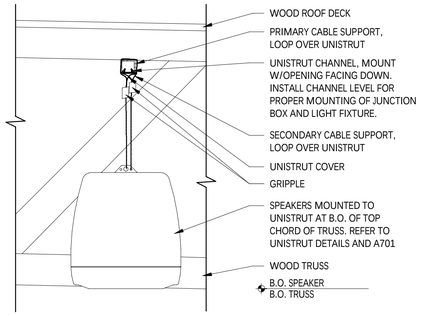
11 A210 JOIST SHELF DETAIL
1 1/2" = 1'-0"



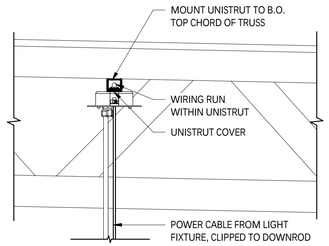
10 A210 KITCHEN CEILING TRANSITION
3" = 1'-0"



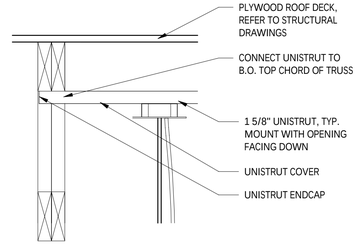
9 A210 KITCHEN CEILING TRANSITION
3" = 1'-0"



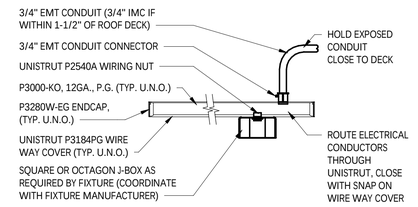
8 A210 SPEAKER INSTALLATION
1 1/2" = 1'-0"



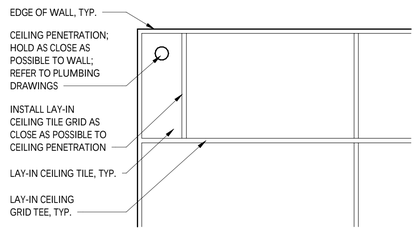
7 A210 UNISTRUT DETAIL
1 1/2" = 1'-0"



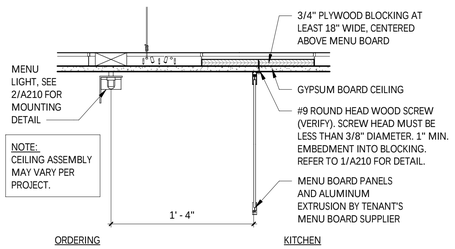
6 A210 TYP. UNISTRUT MOUNTING DETAIL
1 1/2" = 1'-0"



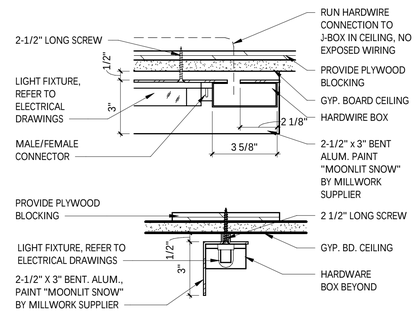
5 A210 UNISTRUT MOUNTING DETAIL
1 1/2" = 1'-0"



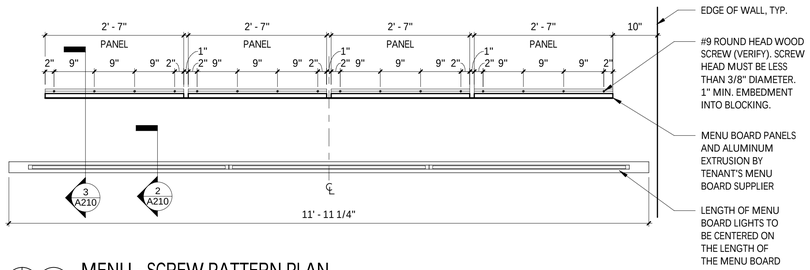
4 A210 LAY-IN CEILING PENETRATION - PLAN DETAIL
3/4" = 1'-0"



3 A210 MENU BOARD DETAIL
1 1/2" = 1'-0"



2 A210 MENU BOARD / ACCENT LIGHT DETAILS
3" = 1'-0"



1 A210 MENU - SCREW PATTERN PLAN
3/4" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

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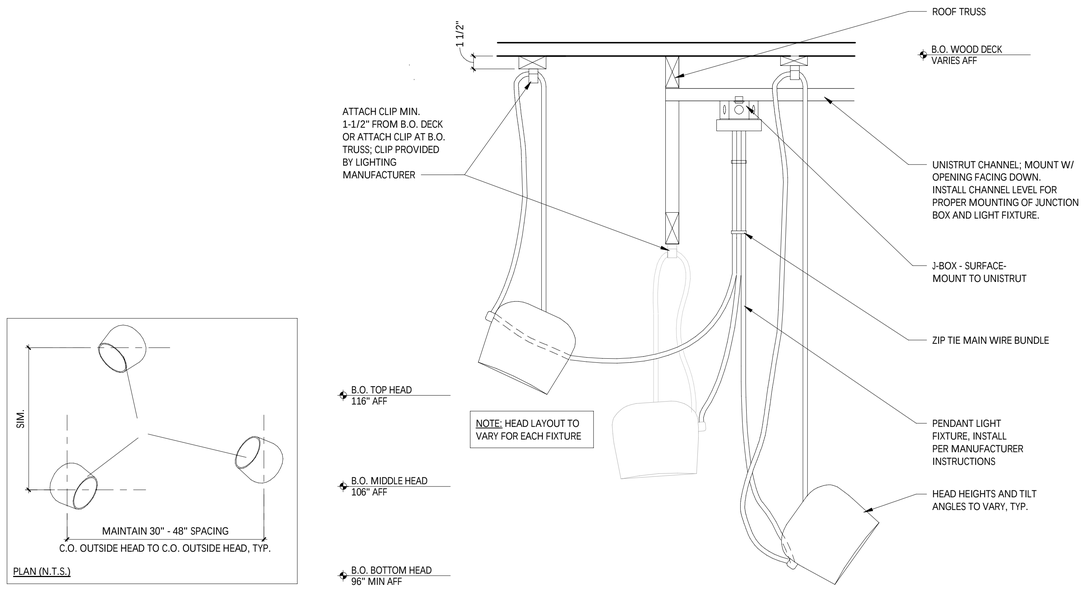
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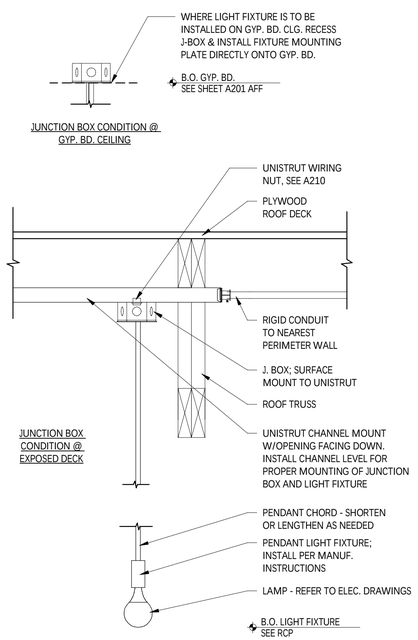
Project No.
CMG5134

Contents:
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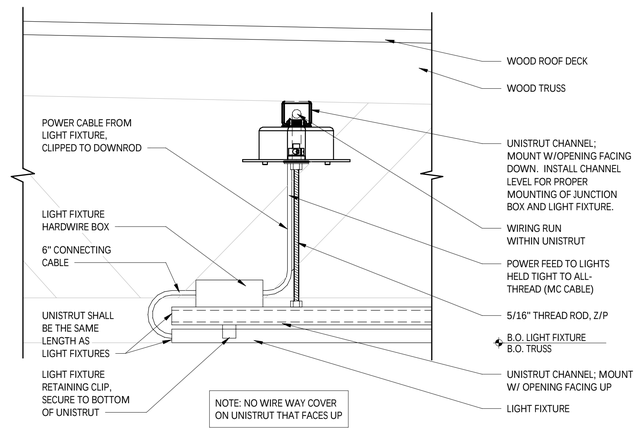
A210



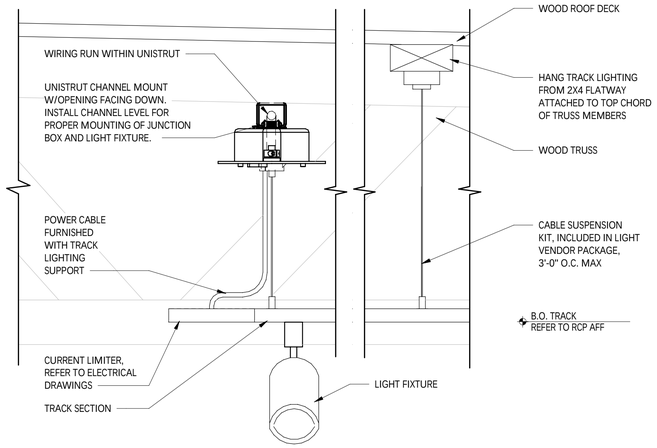
4 / A211 SUSPENDED LIGHT FIXTURE
1 1/2" = 1'-0"



3 / A211 PENDANT LIGHT FIXTURE
1 1/2" = 1'-0"



2 / A211 SUSPENDED STRIP LIGHT CONNECTION DETAIL
3" = 1'-0"



1 / A211 SUSPENDED TRACK LIGHT CONNECTION DETAIL
3" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

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30533
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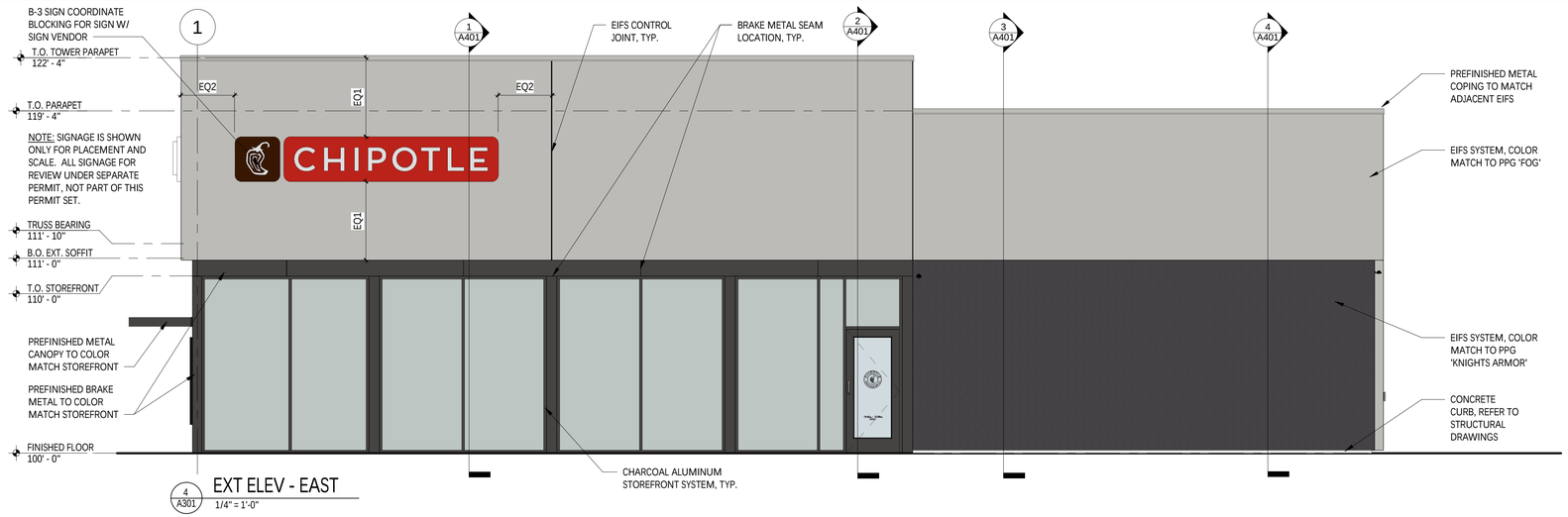
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Contents:
LIGHTING DETAILS

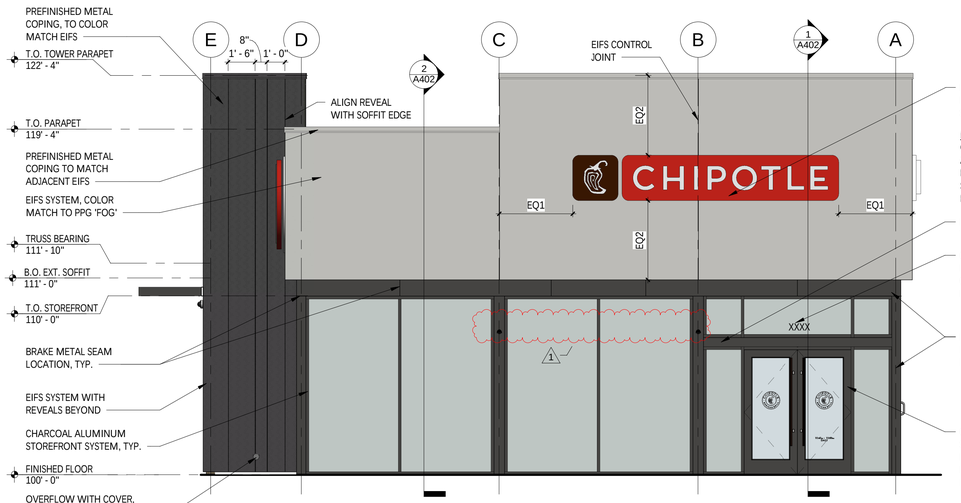
A211

EXT ELEV GENERAL NOTES

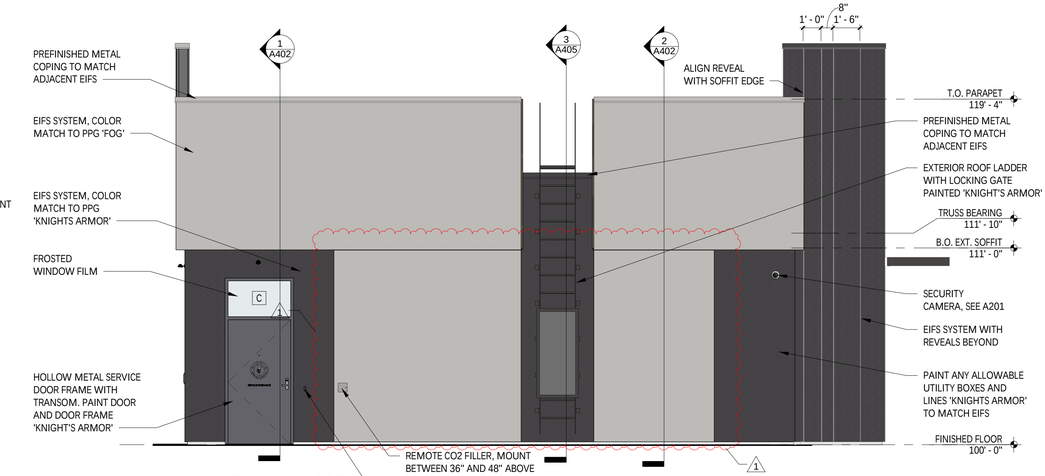
1. REFER TO EXTERIOR ELEVATIONS THIS SHEET FOR EXTERIOR SIGNAGE LOCATIONS, SIZES & DESCRIPTIONS.
2. EXTERIOR SIGNAGE PROVIDED BY TSV AND INSTALLED BY TSV. GC TO MAKE FINAL CONNECTION.



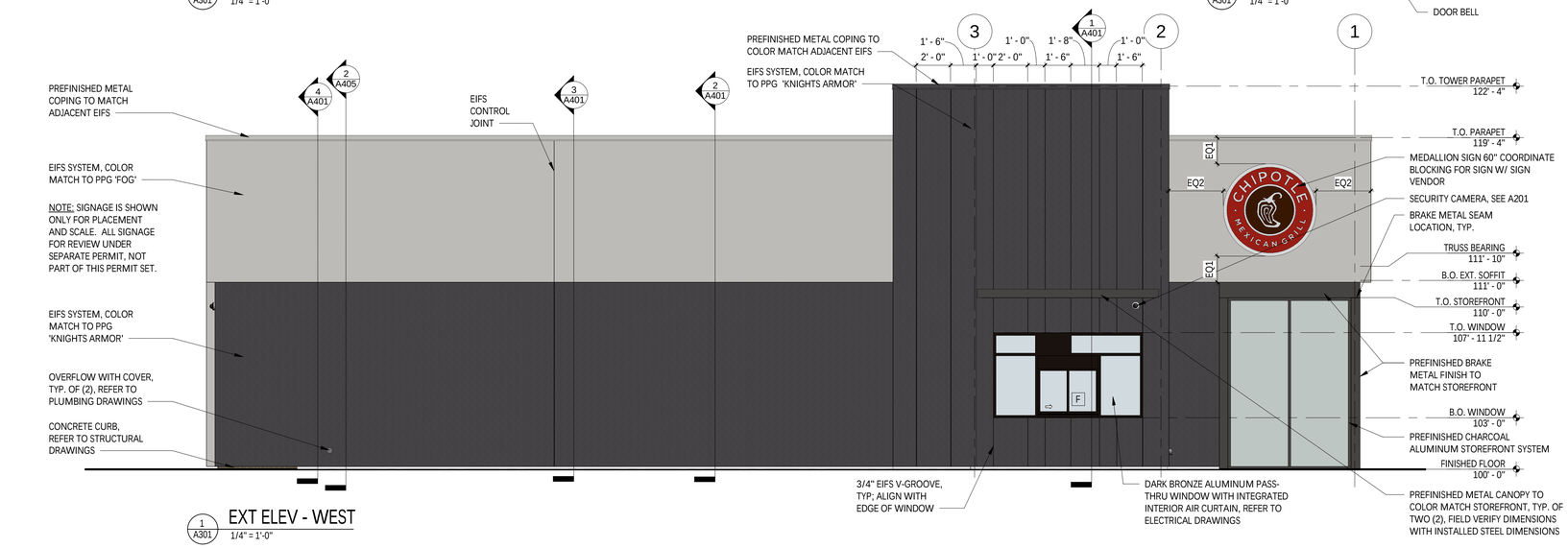
4 A301 EXT ELEV - EAST
1/4" = 1'-0"



3 A301 EXT ELEV - SOUTH
1/4" = 1'-0"



2 A301 EXT ELEV - NORTH
1/4" = 1'-0"



1 A301 EXT ELEV - WEST
1/4" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

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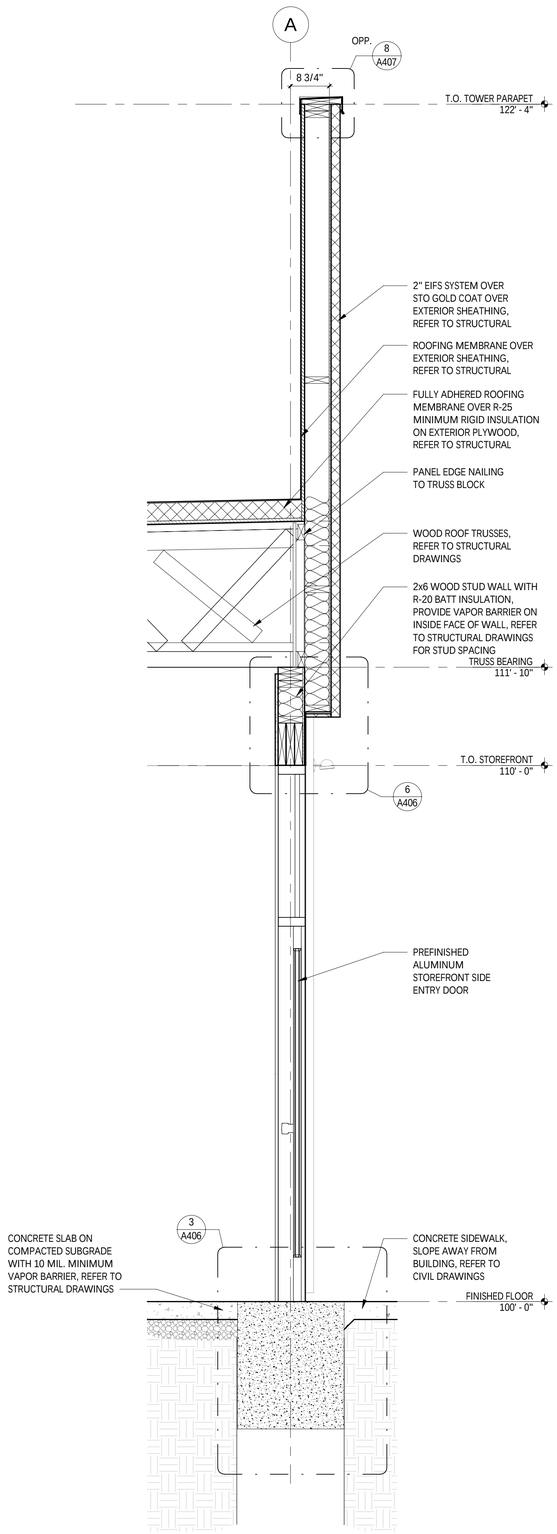
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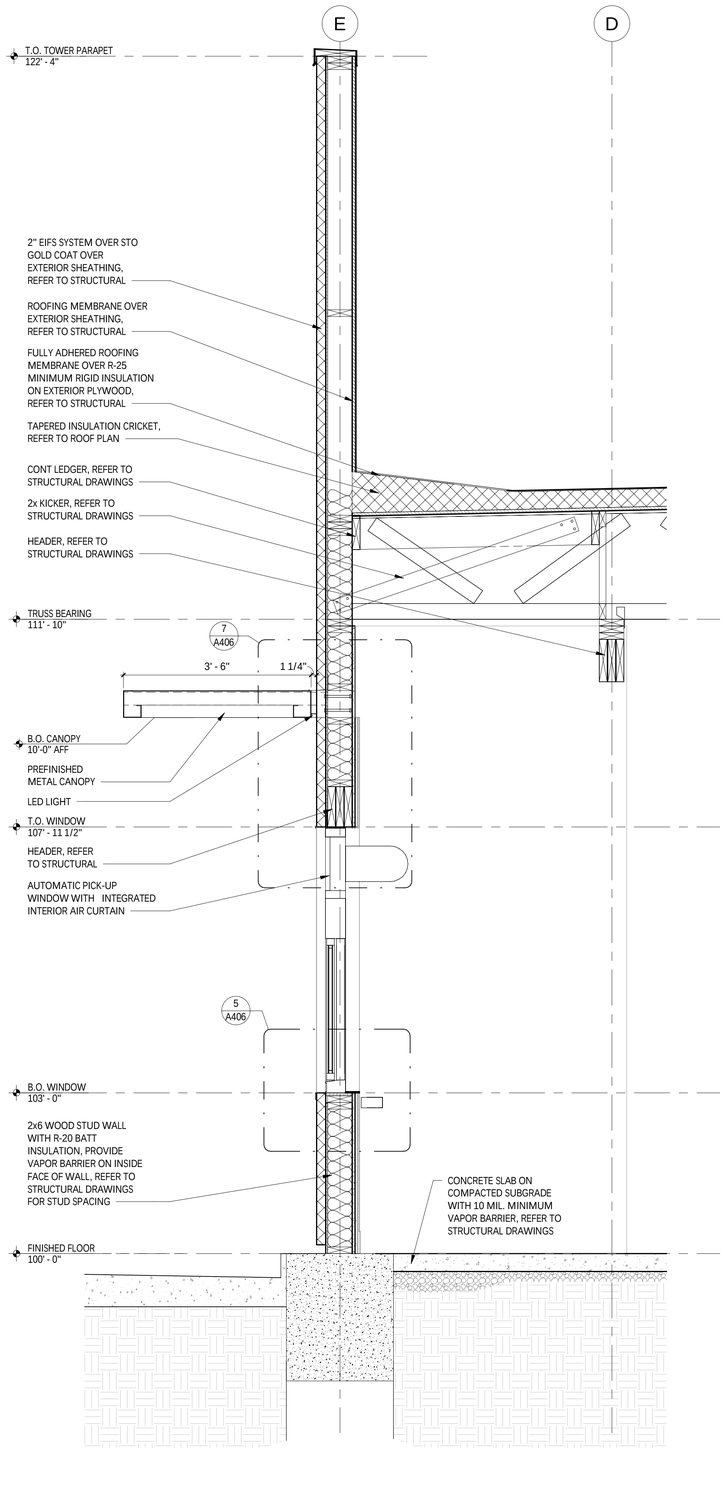
Project No.
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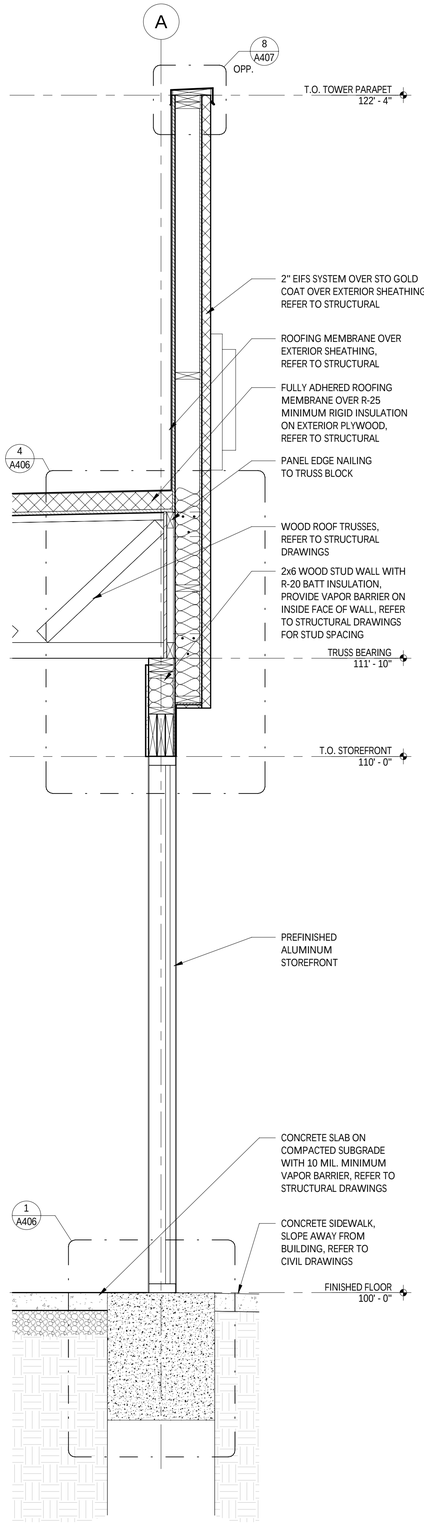
A301



3 A403 WALL SECTION
3/4" = 1'-0"



2 A403 WALL SECTION
3/4" = 1'-0"



1 A403 WALL SECTION
3/4" = 1'-0"

ARCHITECT OF RECORD

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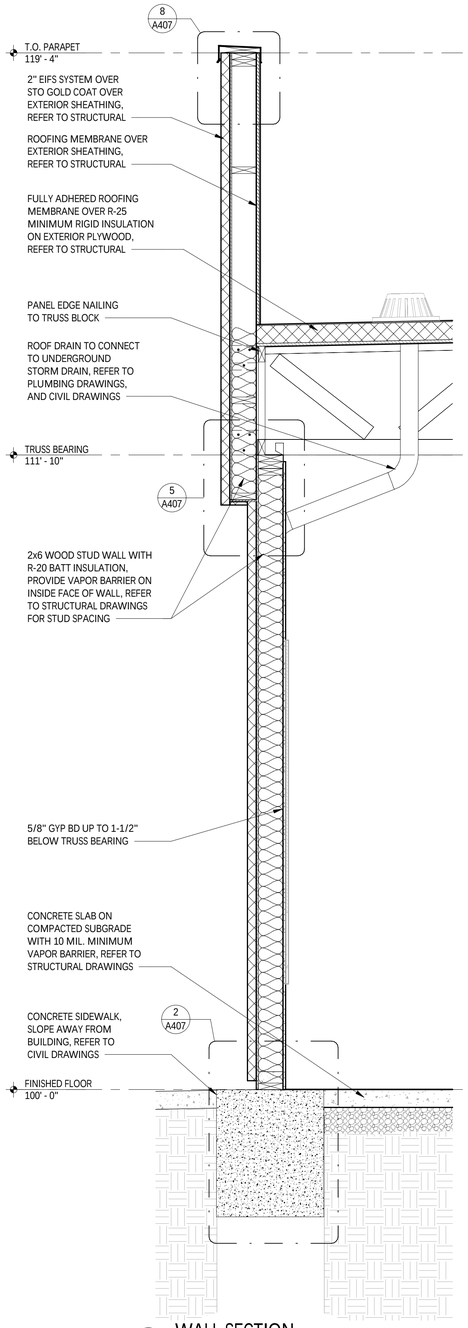
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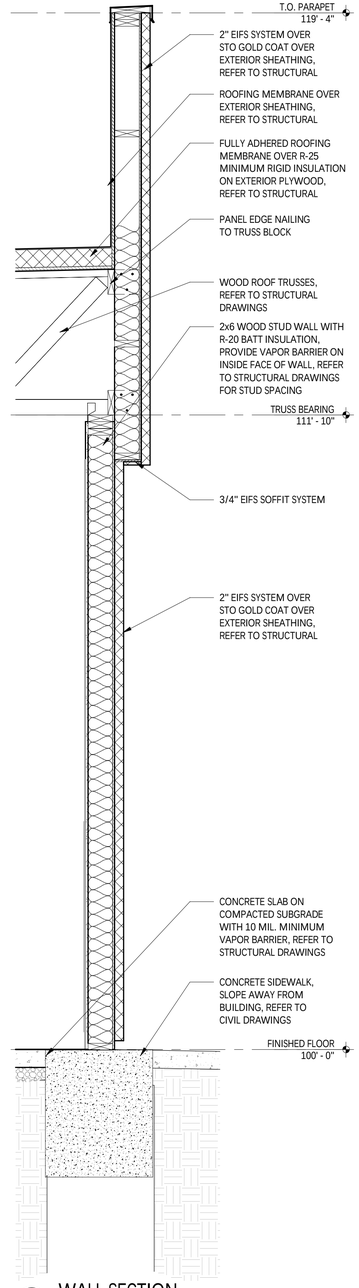
Project No.
CMG5134

Contents:
WALL SECTIONS

A403



4 A404 WALL SECTION
3/4" = 1'-0"



2 A404 WALL SECTION
3/4" = 1'-0"

1 A404 NOT USED
N.T.S.

ARCHITECT OF RECORD

ROGUE ARCHITECTS

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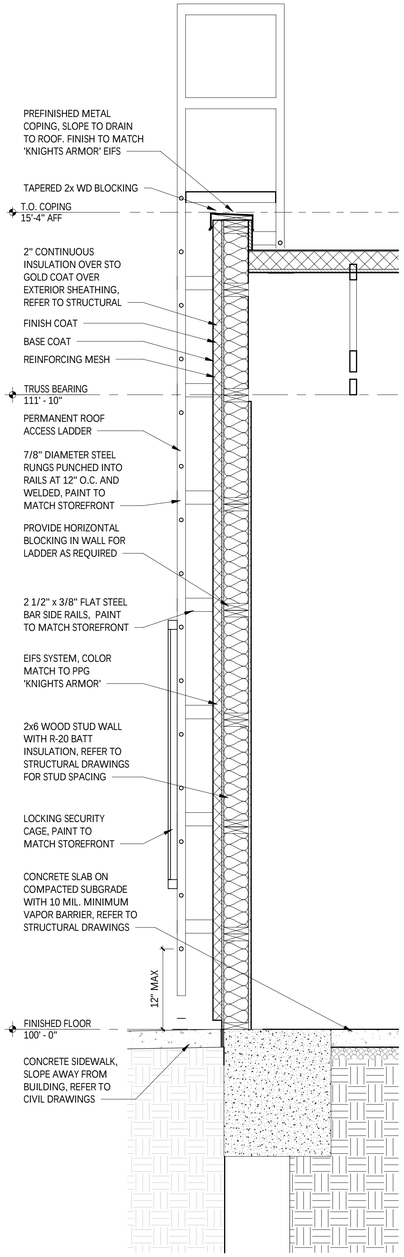
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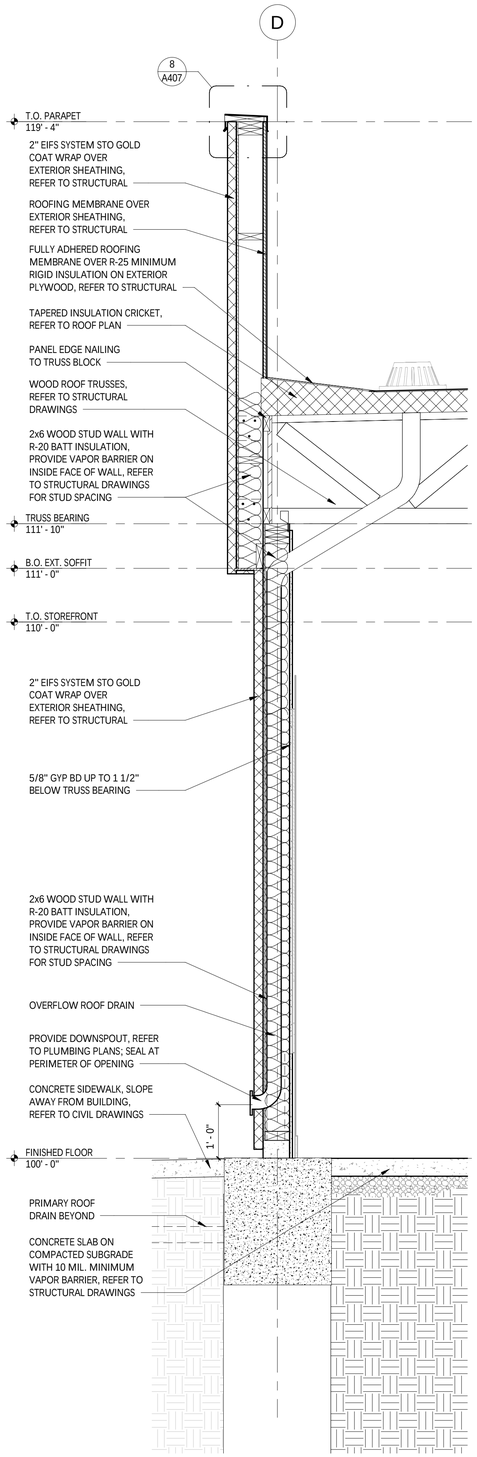
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WALL SECTIONS

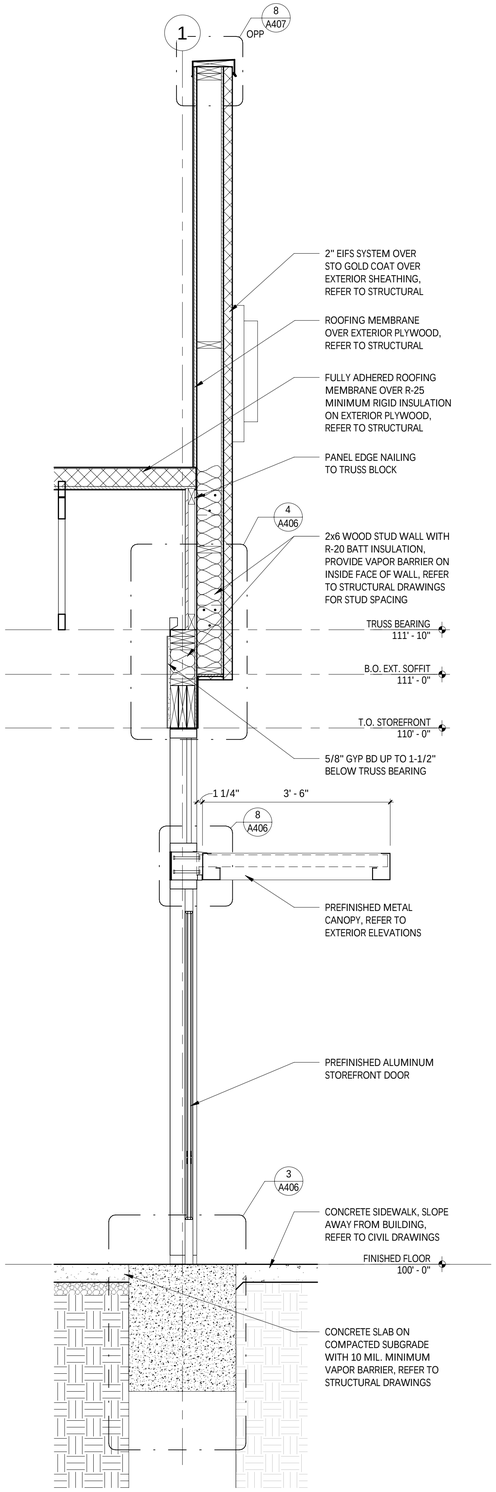
A404



3 A405 WALL SECTION @ ROOF LADDER
3/4" = 1'-0"



2 A405 WALL SECTION
3/4" = 1'-0"



1 A405 WALL SECTION
3/4" = 1'-0"

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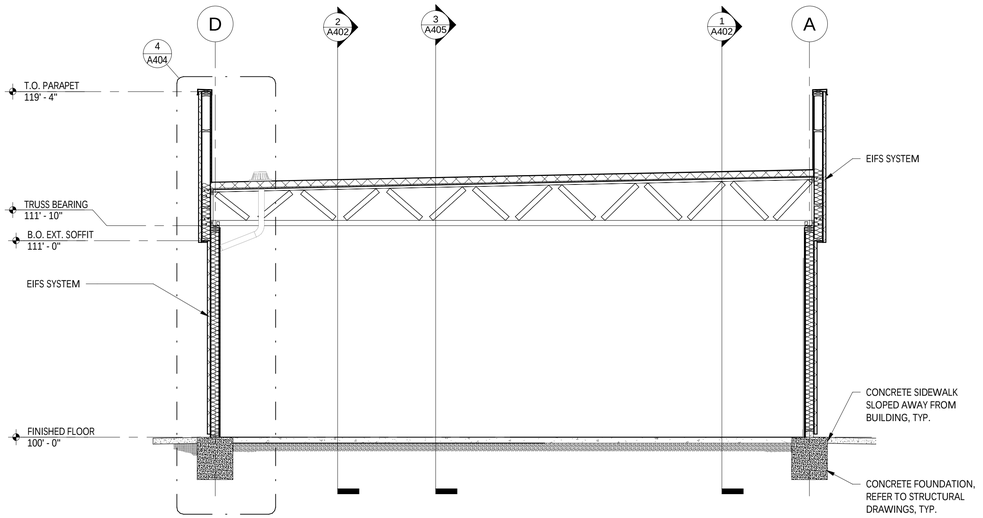
Drawn: S. CLARK
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Project No.: CMG5134

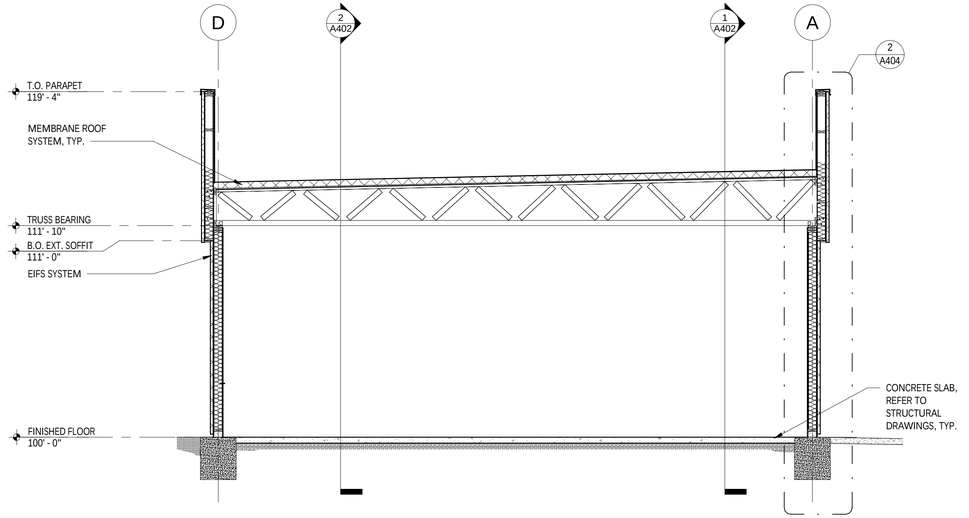
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WALL SECTIONS

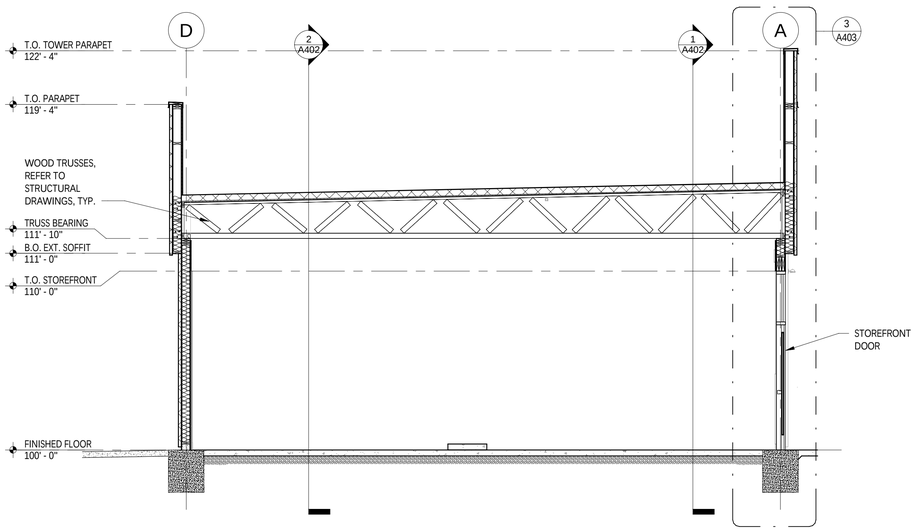
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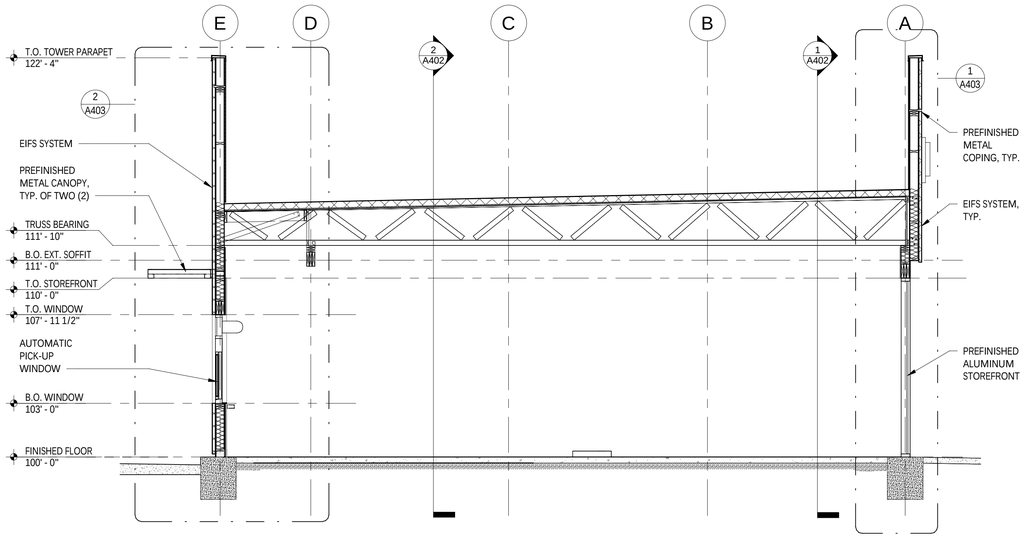
4 A401 BUILDING SECTION
1/4" = 1'-0"



3 A401 BUILDING SECTION
1/4" = 1'-0"



2 A401 BUILDING SECTION
1/4" = 1'-0"



1 A401 BUILDING SECTION
1/4" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · ALLISON R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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COLUMBUS, OH 43218-2566
TELEPHONE: 614.318.2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5134
CROSS ROADS
11940 US HWY 380
CROSS ROADS, TX 76227

Issue Record:

05/30/24	COMBINE PERMIT SET

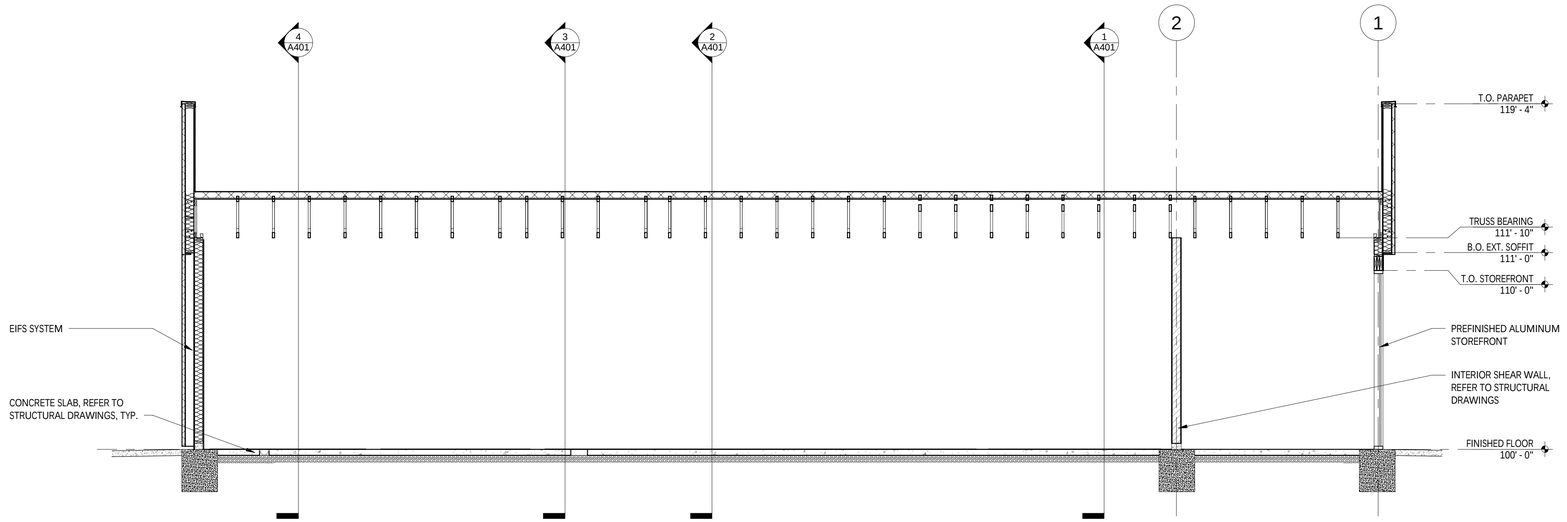
Revisions:

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Checked: T. GRANDORF

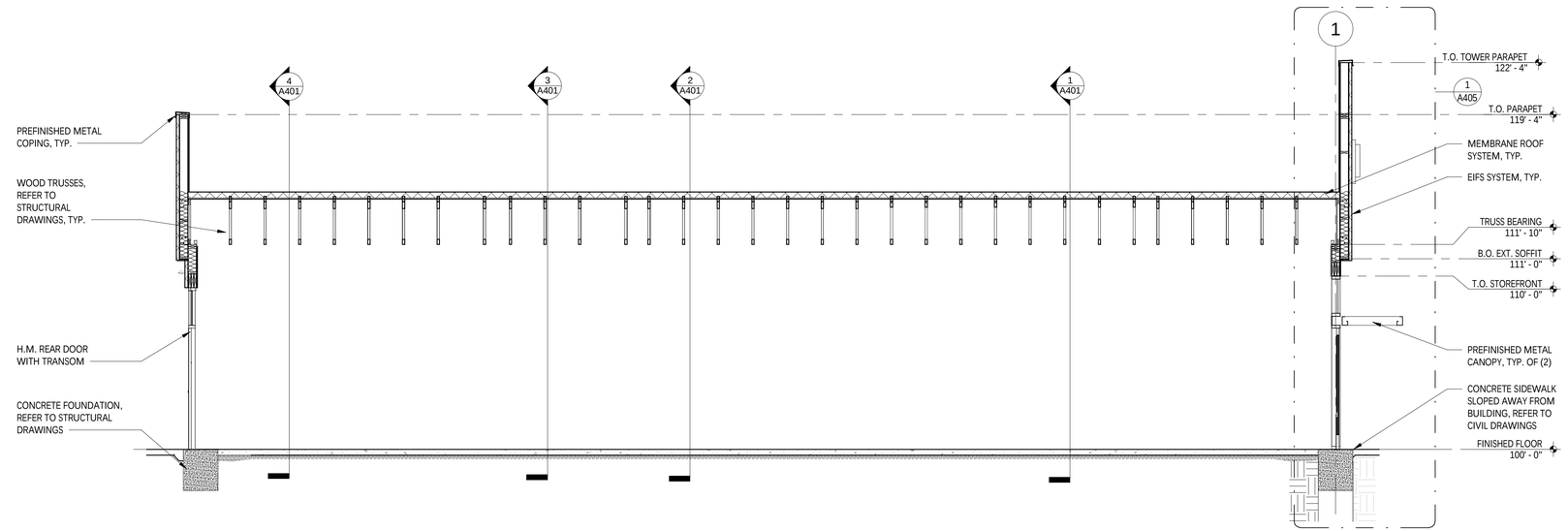
Project No.
CMG5134

Contents:
BUILDING SECTIONS

A401



2 A402 BUILDING SECTION
1/4" = 1'-0"



1 A402 BUILDING SECTION
1/4" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
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REGISTERED ARCHITECT
TAYLOR R. GRANDORF
30533
STATE OF TEXAS

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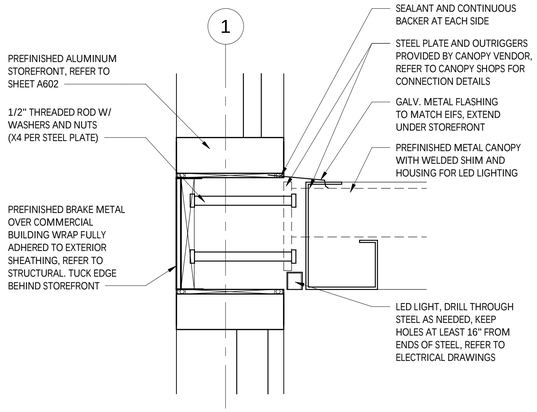
Revisions:

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Checked: T. GRANDORF

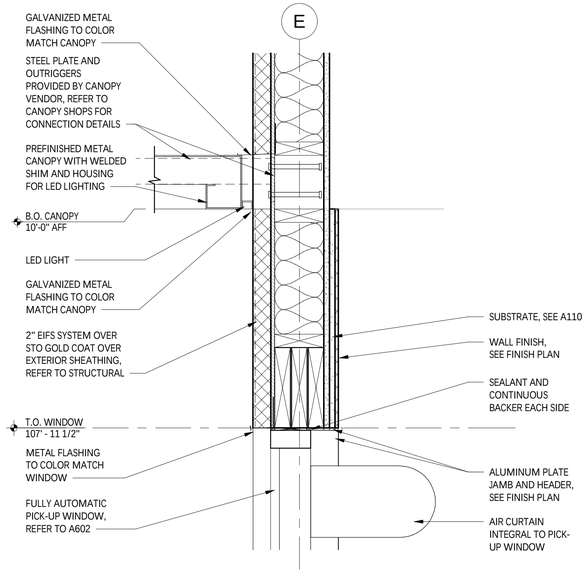
Project No.
CMG5134

Contents:
BUILDING SECTIONS

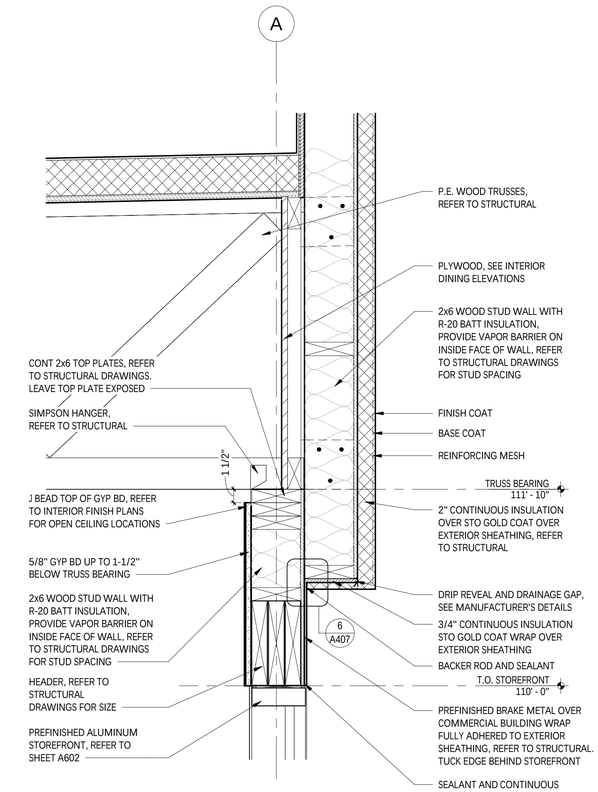
A402



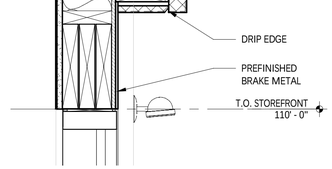
8 A406 CANOPY DETAIL
3" = 1'-0"



7 A406 HEAD DETAIL - PICK-UP WINDOW
1 1/2" = 1'-0"

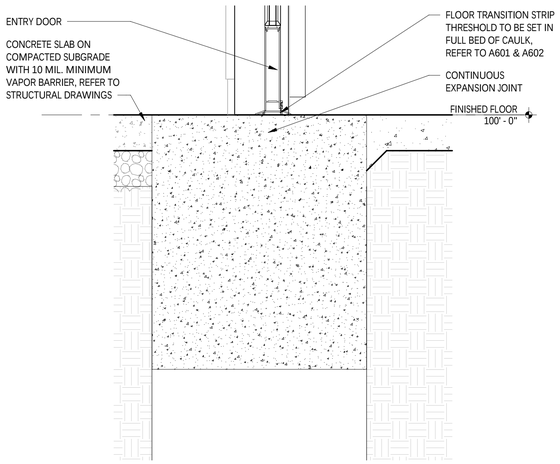


4 A406 SOFFIT DETAIL @ STOREFRONT
1 1/2" = 1'-0"



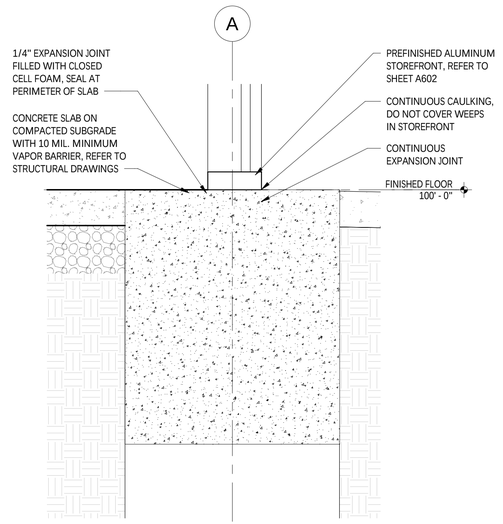
6 A406 SOFFIT DETAIL
1 1/2" = 1'-0"

5 A406 SILL DETAIL @ PICK-UP WINDOW
1 1/2" = 1'-0"



3 A406 FOUNDATION DETAIL @ STOREFRONT DOOR
1 1/2" = 1'-0"

2 A406 NOT USED
N.T.S.



1 A406 FOUNDATION DETAIL @ STOREFRONT
1 1/2" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
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CROSS ROADS, TX 76227

Issue Record:

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Revisions:

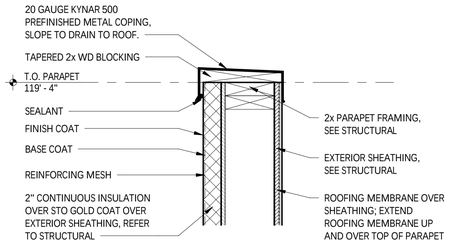
Drawn: S. CLARK
Checked: T. GRANDORF

Project No.: CMG5134

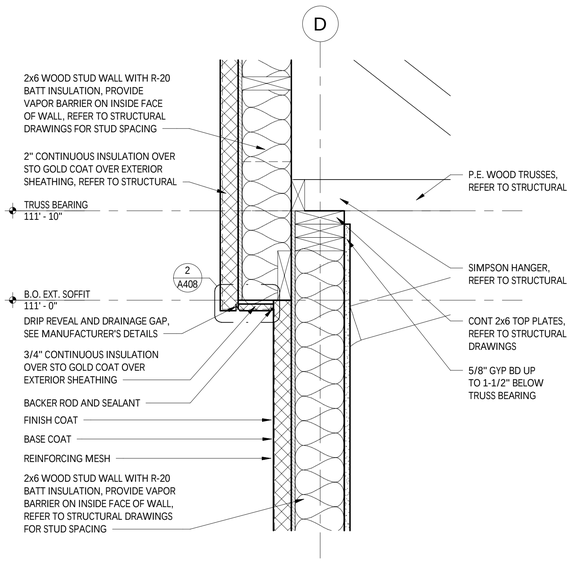
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SECTION DETAILS

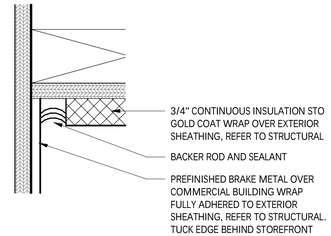
A406



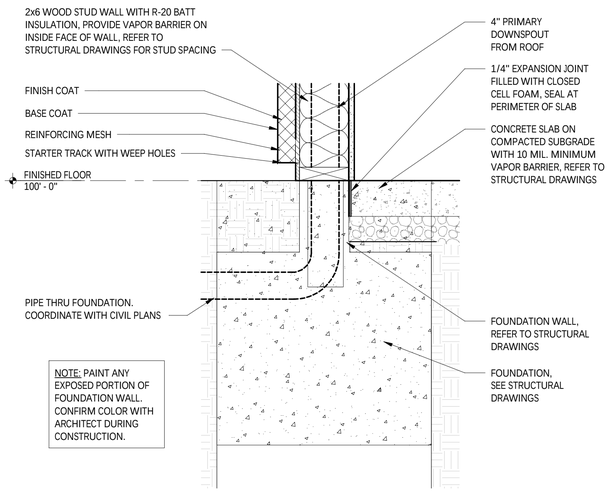
8 / A407 PARAPET DETAIL
1 1/2" = 1'-0"



5 / A407 SOFFIT DETAIL
1 1/2" = 1'-0"



6 / A407 SEALANT DETAIL @ INSIDE CORNER
6" = 1'-0"



2 / A407 FOUNDATION DETAIL
1 1/2" = 1'-0"

3 / A407 NOT USED
N.T.S.

1 / A407 NOT USED
N.T.S.

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
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11940 US HWY 380
CROSS ROADS, TX 76227

Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
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Project No.: CMG5134

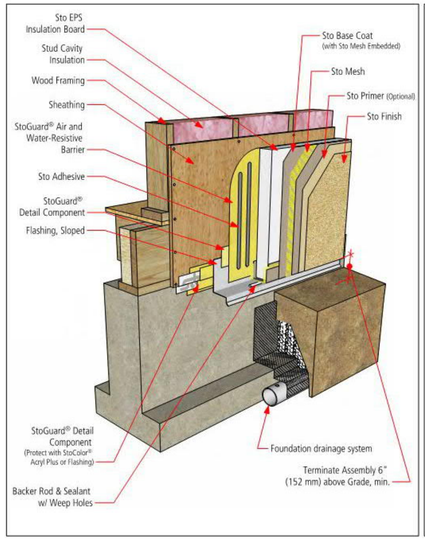
Contents:

SECTION DETAILS

A407

StoTherm® ci over Wood-Frame
Termination at Grade - Sheathing Overlapping Foundation

Detail No.: 52w.03B
Date: July 2022



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

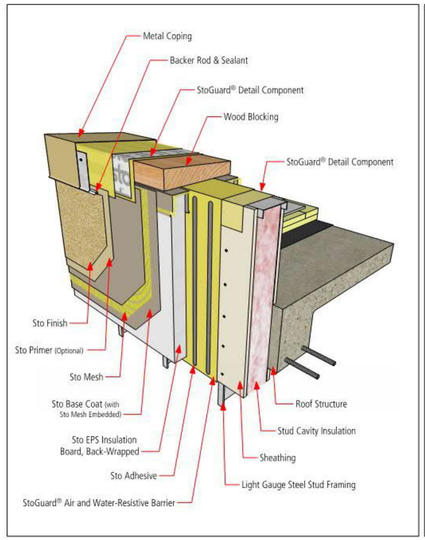
2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

4 A408 EIFS TERMINATION AT GRADE
1 1/2" = 1'-0"

StoTherm® ci
Termination at Parapet - Front

Detail No.: 52s.60A
Date: June 2022



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

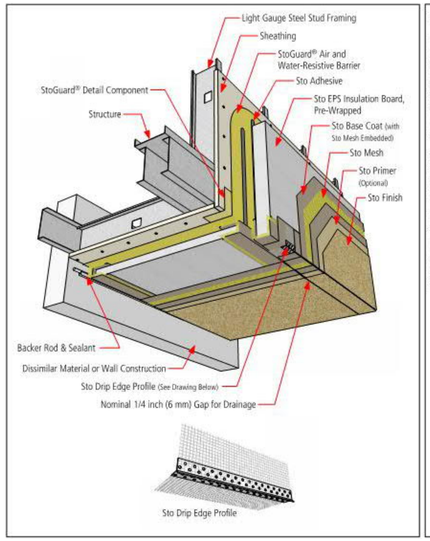
2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

3 A408 EIFS TERMINATION AT PARAPET
1 1/2" = 1'-0"

StoTherm® ci
Soffit: Insulated and Unvented

Detail No.: 52s.30
Date: June 2022



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

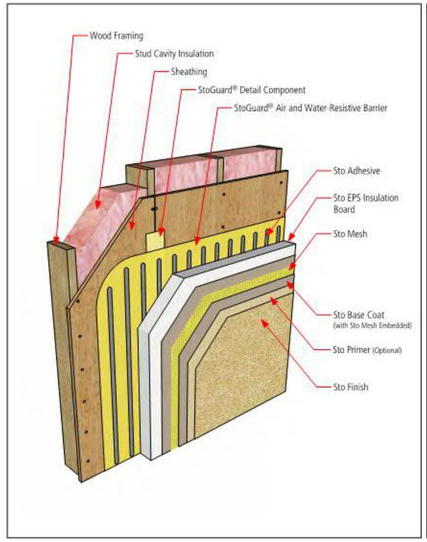
2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

2 A408 EIFS UNVENTED INSULATED SOFFIT (WITHOUT STARTER TRACK)
1 1/2" = 1'-0"

StoTherm® ci over Wood Frame
System Components with Sto Textured Finish

Detail No.: 52w.00
Date: July 2022



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

1 A408 EIFS SYSTEM COMPONENTS
1 1/2" = 1'-0"

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Sto details are illustrations of construction for the EIFS (exterior insulation finish system). They are guidelines to assist in developing project specific details for the finish system. Components noted in the details outside of the EIFS will vary within projects. Refer to construction set for wall system and building details. Refer to the appropriate Sto specification for EIFS design requirements. And refer to local building code for any special requirements.

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · TAYLOR R. GRANDORF · 30533 · STATE OF TEXAS

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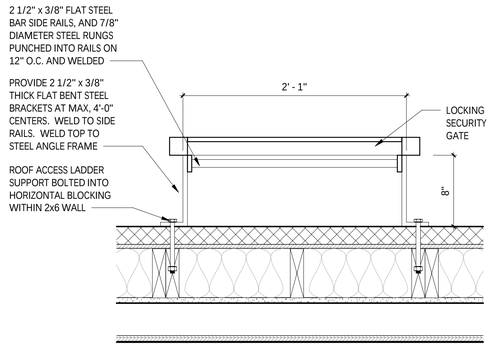
Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

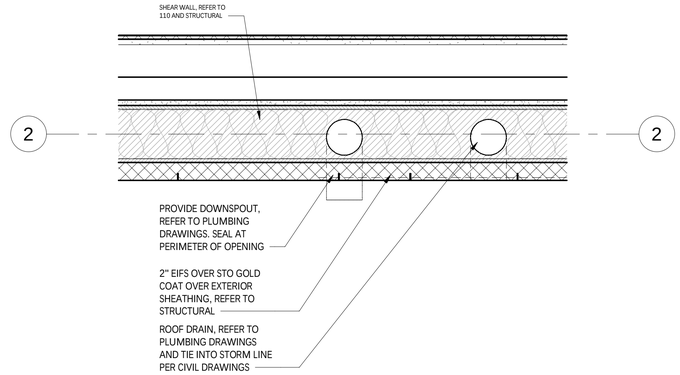
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EIFS DETAILS

A408

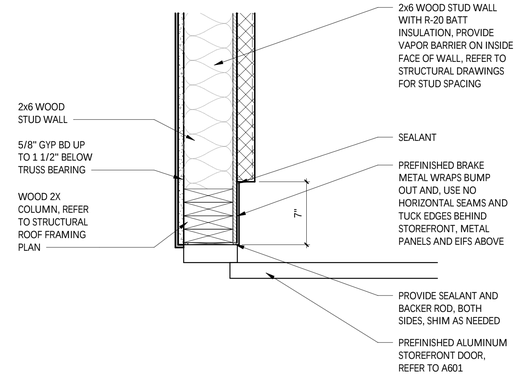


8 A409 PLAN DETAIL - EXTERIOR ROOF LADDER
1 1/2" = 1'-0"

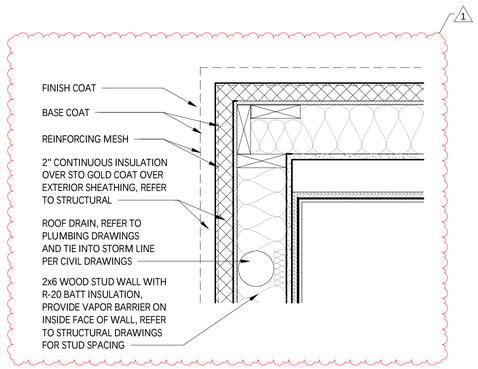
7 A409 NOT USED
N.T.S.



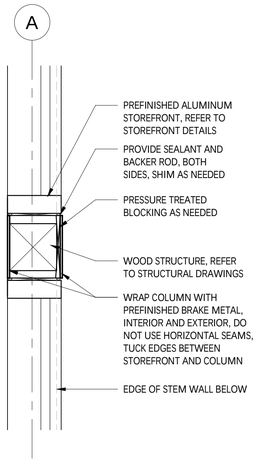
5 A409 PLAN DETAIL
1 1/2" = 1'-0"



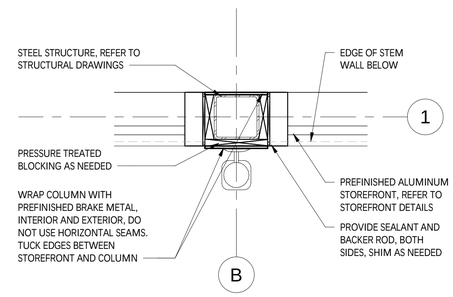
6 A409 PLAN DETAIL
1 1/2" = 1'-0"



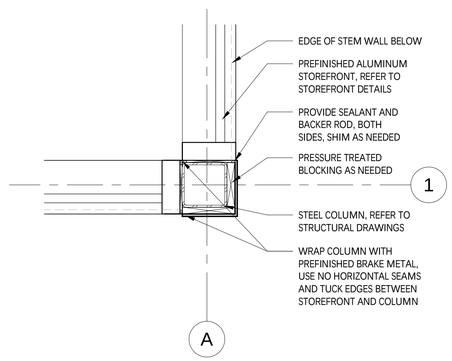
4 A409 PLAN DETAIL
1 1/2" = 1'-0"



3 A409 PLAN DETAIL
1 1/2" = 1'-0"



2 A409 PLAN DETAIL
1 1/2" = 1'-0"



1 A409 PLAN DETAIL
1 1/2" = 1'-0"

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Revisions:

1	07/14/24	REVISION 01

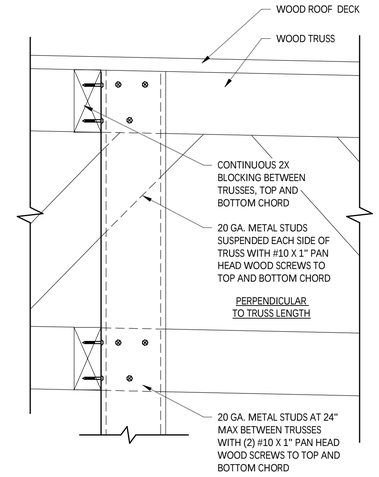
Drawn: S. CLARK
Checked: T. GRANDORF

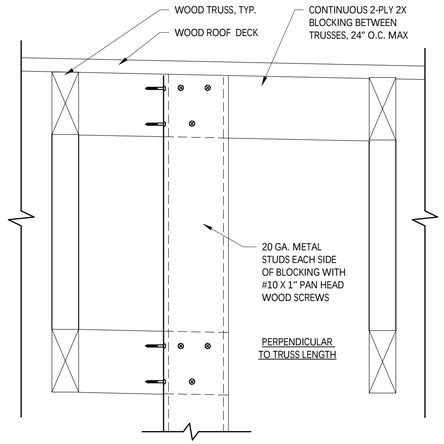
Project No.
CMG5134

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PLAN DETAILS

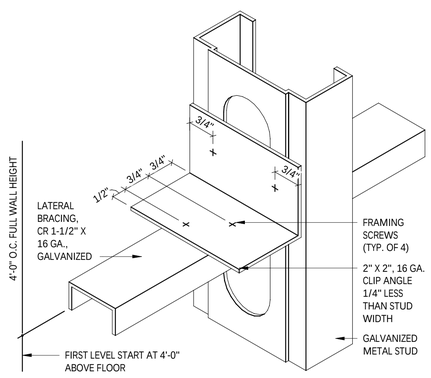
A409

3 A501 DEFLECTION TRACK DETAIL @ PARTITION
6" = 1'-0"





2 A501 SOFFIT HANGING DETAIL
3" = 1'-0"

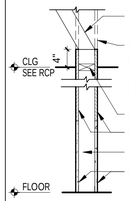


1 A501 LATERAL BRACING DETAIL @ PARTITION
NOT TO SCALE

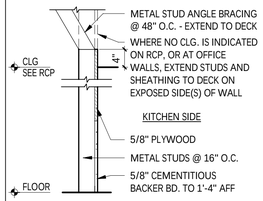
WALL TYPES

1. G.C. SHALL PROVIDE SOLID BLKG. IN WALLS AS NEEDED
2. REFER TO ARCHITECTURAL FLOOR PLAN FOR ALL STUD SIZES
3. REFER TO A120 FOR ALL WALL FINISHES

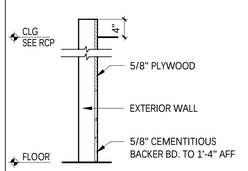
NOTE: ALL CONCEALED
WOOD TO BE FRT RATED



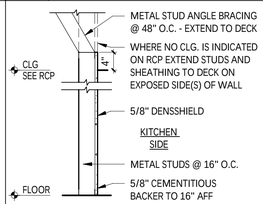
W1 INTERIOR PARTITION



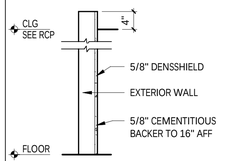
W1a INTERIOR PARTITION



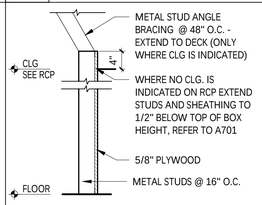
W1ax INTERIOR PARTITION



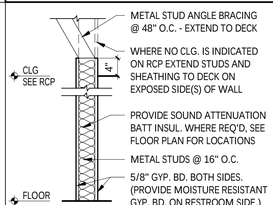
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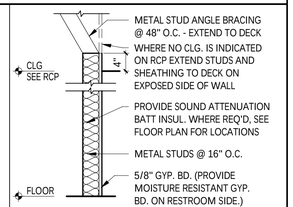
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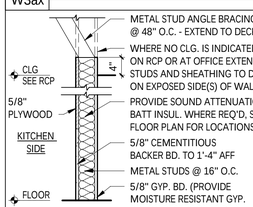
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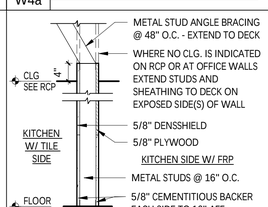
W5 INTERIOR PARTITION



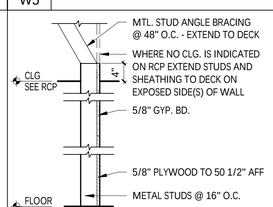
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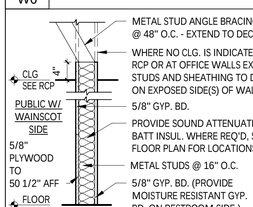
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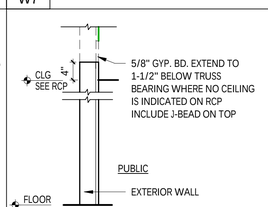
W7 INTERIOR PARTITION



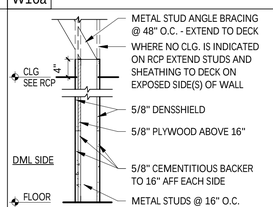
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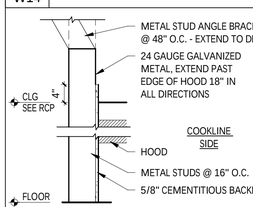
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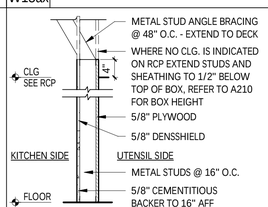
W15ax INTERIOR PARTITION



W23 INTERIOR PARTITION



W26a INTERIOR PARTITION



W28 INTERIOR PARTITION

GENERAL NOTES

REFER TO FINISH SCHEDULE AND CERAMIC TILE WALL FINISHES KEY PLAN ON SHEET A120 FOR WALL FINISHES, REFER TO FLOOR PLAN ON A110 FOR METAL STUD SIZE.

STUD SCHEDULE & NOTES

SIZE/TYPE	W/O HUNG SHELVING	W/ HUNG SHELVING
362S125-18	UP TO 12'-0"	
362S137-33	UP TO 16'-0"	UP TO 12'-0"
600S137-33	UP TO 22'-0"	UP TO 16'-0"
600S162-43	UP TO 26'-0"	UP TO 22'-0"

1. ALL HEIGHTS REFER TO UN-BRACED HEIGHTS.
2. ALL HEIGHTS BASED ON 16" O.C. SPACING.
3. BOTTOM TRACK TO BE SAME GAUGE AS STUD.
4. TOP TRACK TO BE ONE GAUGE HIGHER.

PARTITION NOTES

1. ALL METAL STUDS TO CONFORM TO LOCAL BUILDING CODES.
2. ALL STUD WALLS AND PARTITIONS REQUIRE GYP. BOARD ON BOTH SIDES FOR THE FULL HEIGHT OF THE STUDS UNLESS SPECIFICALLY DETAILED OTHERWISE.
3. ALL SUSPENDED WALLS SHALL HAVE GYP. BOARD WHICH EXTENDS 4" ABOVE THE SUSPENDED CEILING UNLESS SHOWN AND/OR NOTED OTHERWISE BY THE ARCHITECT.
4. FIRE RETARDANT PLYWOOD MAY SUBSTITUTE FOR GYP. BOARD WHERE SO DIRECTED BY THE ARCHITECT.
5. ALL STUD WALLS AND PARTITIONS SHALL HAVE CONTINUOUS LINES OF BRIDGING SPACED AT 4'-0" MAXIMUM ON CENTER. THE BRIDGING SHALL BE SECURELY FASTENED TO THE STUDS WITH EITHER SCREWS OR WELDS. REFER TO DETAILS THIS SHEET.
6. ALL STUDS SHALL BE "CEE" STUDS WITH FLANGE STIFFENERS.
7. THE MATERIALS AND DETAILS SHOWN ARE FOR TYPICAL INSTALLATIONS. WHERE THE STUD MANUFACTURER'S RECOMMENDATIONS OR LOCAL ORDINANCES ARE MORE RESTRICTIVE, THEY SHALL APPLY.
8. TYPICAL FASTENER:

A. STEEL STUDS TO STEEL STUDS OR TRACKS:
   - 20 GAUGE - #8 - 18 X 1/2" TEKS WITH PHILIPS PAN HEAD - MIN. 2 PER CONNECTION
   - 18/16 GAUGE - #10 - 16 X 3/4" TEKS WITH PHILIPS PAN HEAD - MIN. 3 PER CONNECTION

B. STEEL STUDS OR TRACKS TO WOOD PURLINS, GIRDERS AND BEAMS:
   - #14 - 10 X 1-1/2" H.W.H. TYPE "S" METAL-TO-WOOD TEKS AT 12" O.C., 2" FROM EACH END

C. STEEL STUDS OR TRACKS TO STRUCTURAL STEEL (TUBE/WIDE FLANGE COL'S, BM'S, GIRDER'S, ETC.)
   - 0.145" DIA. HILTI X-EDNI FASTENERS, 5/8" MIN, LENGTH AND MIN. OF 2 PER CONNECTION, OR 2 ROWS AT 16" O.C. FOR CONTINUOUS APPLICATIONS SUCH AS TRACKS, U.N.O.

D. PLYWOOD TO STEEL STUDS:
   - #10 - 24 X 1-1/4" TEKS/3 (PLYMETALTEKS) WITH THIN WAFER HEAD - 24" O.C. FILED, 12" O.C. PERIMETER

E. GYPSUM BOARD TO STEEL STUDS:
   - #7 X 1-1/4" HI-LOW TYPE "S" BUGLE HEAD SCREWS FOR 3/8" TO 5/8" GYP. BD. TO 25 GAUGE OR 20 GAUGE STUDS
   - #6 X 1-1/4" TYPE S-12 BUGLE HEAD SCREWS FOR 3/8" TO 5/8" TO 18 GAUGE OR 16 GAUGE STUDS OR TRACKS
   - FIELD - 12" O.C. CEILINGS, 24" O.C. WALLS
   - BUTT JOINTS 12" O.C.

F. STEEL STUDS OR TRACKS TO CONCRETE:
   - 0.145" DIA. HILTI X-DNI FASTENER, 1" MIN. LENGTH, 2 ROWS AT 16" O.C.

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · TAYLOR R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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CROSS ROADS, TX 76227

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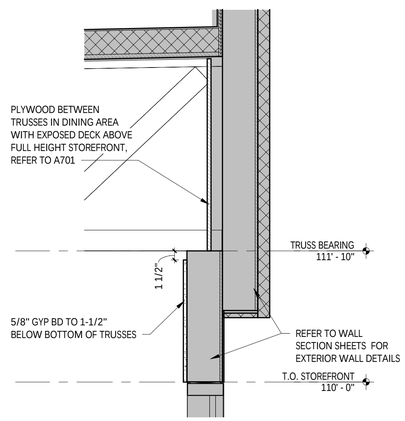
Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

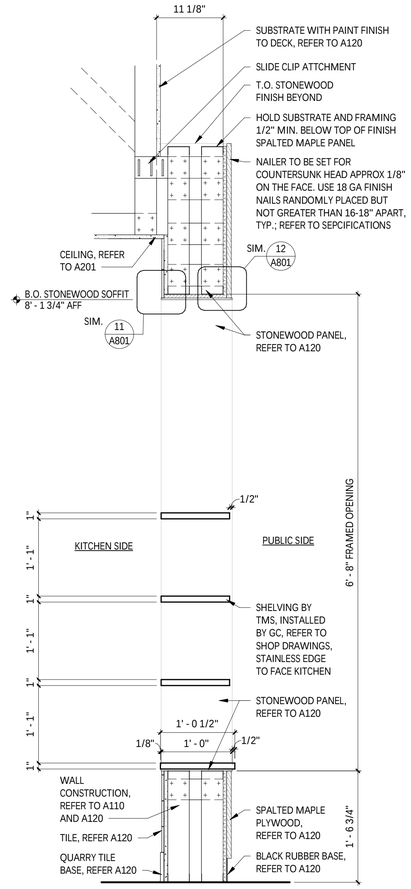
Project No.
CMG5134

Contents:
ARCHITECTURAL WALL TYPES

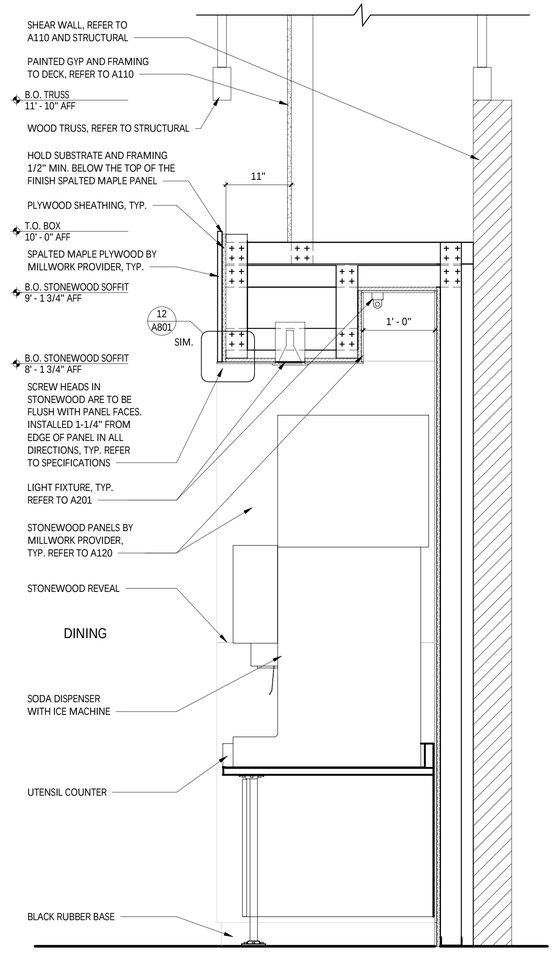
A501



3 A502 SOFFIT DETAIL
1" = 1'-0"



2 A502 MOPUS SECTION - PASS THRU
1" = 1'-0"



1 A502 UTENSIL SECTION
1" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

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FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT
TAYLOR R. GRANDORF
30533
STATE OF TEXAS

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05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

Contents:
INTERIOR SECTIONS

A502

DOOR SCHEDULE

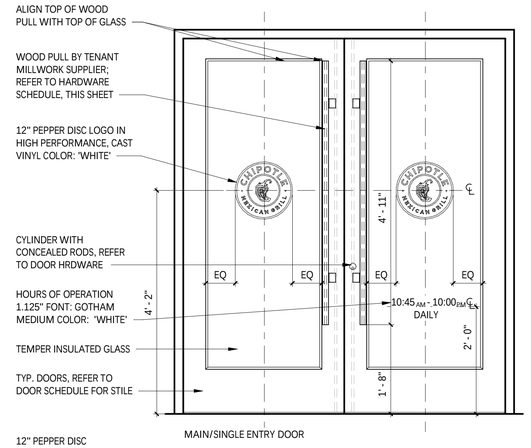
TAG	ROOM	DOOR STATUS *	FRAME STATUS	DOOR DESCRIPTION	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	STILE	HARDWARE SET	HARDWARE STATUS*	FIRE RATING	REMARKS
1	MAIN ENTRY	NEW	NEW	DOUBLE STOREFRONT (WIDE STILE, WOOD PULL/PUSH)	6' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	1	NEW		1,2,4,5
2	DINING	NEW	NEW	SINGLE STOREFRONT (WIDE STILE, NON-OFFSET, PANIC)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2A	NEW		1,3,4,5
3	KITCHEN	NEW	NEW	HM REAR KITCHEN (STANDARD)	3' - 6"	7' - 0"	0' - 1 3/4"	D	D1/D2 (SEE A120)	2	H.M.	-	3	NEW		1,4,6
4	OFFICE	NEW	NEW	MANAGER'S OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	C	D1 (SEE A120)	1	H.M.	-	4	NEW		
5	UNISEX 1	NEW	NEW	UNISEX 2 RESTROOM (SINGLE-OCCUPANT, STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	5	NEW		
6	UNISEX 2	NEW	NEW	UNISEX 1 RESTROOM (SINGLE-OCCUPANT, STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	6	NEW		

REMARK NOTES

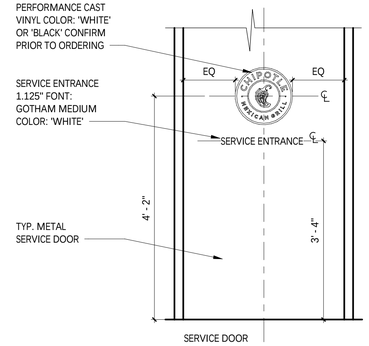
1. DOORS WITH REMARK #1 TO BE KEYED THE SAME
2. EXIT INDICATOR ARRIVES WITH SIGNS STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" AND "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED". VERIFY REQUIRED SIGN WORDING WITH LOCAL JURISDICTION PRIOR TO INSTALLATION. ONE SIGN IS TO BE PLACED IN A VISIBLE LOCATION ABOVE THE DOORS.
3. THERE IS TO BE NO EXTERIOR HOLE OR CYLINDER
4. USE NON-SHRINK STRUCTURAL GROUT BED UNDER THRESHOLD
5. BLACK DOOR SWEEP TO BE USED WITH CHARCOAL, BLACK OR BRONZE STOREFRONT. LIGHT GRAY DOOR SWEEP TO BE USED WITH CLEAR ANODIZED ALUMINUM STOREFRONT
6. REAR KITCHEN DOOR TO BE PAINTED 'BLACK' ON INTERIOR AND 'KNIGHT'S ARMOR' ON EXTERIOR U.N.O.

*IF STATUS IS "EXISTING" G.C TO DETERMINE CONDITION OF EXISTING HADWARE. IF HARDWARE IS IN POOR CONDITION, PROVIDE HARDWARE IN HARDWARE SCHEDULE. CONFIRM REPLACEMENT WITH CHIPOTLE CM.

TYPICAL EXTERIOR DOOR TYPES



MAIN/SINGLE ENTRY DOOR



HARDWARE SETS

SET 1 - MAIN ENTRY - PAIR - WOOD PULL/PUSH

(2)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(2)	MORTISE CYLINDER	SCHLAGE, MODEL 80-103, BRUSHED CHROME; C.O. CYLINDER AT 34" MIN. FROM BOTTOM OF DOOR
(2)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE, (BRUSHED CHROME)
(2)	PUSH HARDWARE	1 1/2" DIAMETER WOOD PUSH, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(2)	PULL HARDWARE	1 1/2" DIAMETER WOOD PULL, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(1)	DEADBOLT	ADAMS RITE, MODEL MS1850S-310-628
(1)	EXIT INDICATOR	ADAMS RITE, MODEL 4089-00-130
(1)	HEADER BOLT	ADAMS RITE, MODEL 4016-30-01
(1)	THRESHOLD BOLT	ADAMS RITE, MODEL 4015-18-1B
(2)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(2)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)
(2)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-SP28 (ALUMINUM)
(2)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S424A-72 (SIZE 72")
(2)	SMOKE SEAL	REESE, MODEL 797B-21
(2)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR),OWNER FURNISHED

SET 2A - ENTRY - SINGLE - NON-OFFSET - PANIC HARDWARE

(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE	ADAMS RITE, MODEL 8801-36-628 (ALUMINUM FINISH, 36" DOOR); C.O. EXIT DEVICE AT 38" FROM BOTTOM OF DOOR
(1)	PULL HARDWARE	HAGER, MODEL 4G US32D (8" CTC), CENTER ON DOOR STILE
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-US32D (ALUMINUM)
(1)	THRESHOLD	REESE, MODEL S424A-36 (SIZE 36")
(1)	SMOKE SEAL	REESE, MODEL 797B-21
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR), OWNER FURNISHED
(1)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)

SET 3 - REAR EXIT - SINGLE

(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE	FALCON, MODEL 25-R-EO-4'-US28 (SIZE 42")
(1)	PULL HARDWARE	FALCON, MODEL 510L-DANE-LHR-US26D, ALUMINUM (EXTERIOR SIDE)
(1)	RIM CYLINDER	GLS, MODEL RCIC-7-LZ-626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), ALUMINUM
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S239A-42, (SIZE 42") 1
(1)	WEATHERSTRIP	REESE, MODEL DS75C-4070
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-42 (42" DOOR) (BLACK) OWNER FURNISHED
(1)	DOOR VIEWER	IVES, MODEL U698B26D, C.O. VIEWER AT 60" FROM BOTTOM OF DOOR
(1)	DOOR SILENCERS	IVES, MODEL SR64
(1)	DOOR BUZZER	TRINE, MODEL 240
(1)	KICKPLATE	HIAWATHA, MODEL KP834-US32D

SET 4 - MANAGER'S OFFICE

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	LOCKSET	SCHLAGE, MODEL L9453L-06A-626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	DOOR STOP	DON-JO, MODEL 1407-630, STAINLESS STEEL
(3)	DOOR SILENCERS	IVES, MODEL SR64
(1)	SECURITY WINDOW	AIR LOUVERS, MODEL VSL1212TEMPPAK SLIMLINE 12" X 12" X 1/4" LITE KIT (10" X 10" GLASS VISIBLE)

SET 5 - UNISEX 1 RESTROOM - SINGLE OCCUPANT - STANDARD

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL AL40S-NEP-626
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	COAT HOOK	MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

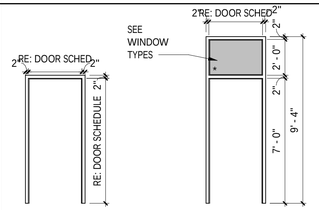
SET 6 - UNISEX 2 RESTROOM - SINGLE OCCUPANT - STANDARD

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL AL40S-NEP-626
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	COAT HOOK	MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

DOOR NOTES

1. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
2. LATCHES, HANDLES, PANIC BARS AND ALL DOOR HARDWARE WILL COMPLY WITH SECTION 7.2 OF NFPA 101 PER THE SPECIFICATIONS.
3. THE MANAGER HAS A KEY TO UNLOCK RESTROOM DOORS, FROM THE OUTSIDE IN CASE OF AN EMERGENCY.
4. ALL DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS.
5. SEE THIS SHEET FOR EXTERIOR DOOR SIGNAGE INFO.
6. MAXIMUM EFFORT TO OPERATE EXTERIOR OR INTERIOR DOORS WITH CLOSERS SHALL NOT EXCEED 5 POUNDS. THIS MAY BE INCREASED TO 15 POUNDS FOR FIRE-RATED DOORS.
7. ALL FRAMES, DOORS AND HARDWARE TO BE FURNISHED BY TENANT HARDWARE SUPPLIER AND INSTALLED BY TENANT G.C. CALL PETE KLIMEK WITH TWIN CITY HARDWARE AT 763-535-4660 TO ARRANGE DELIVERY. STOREFRONT DOORS ARE TO BE PROVIDED BY G.C., STOREFRONT HARDWARE PROVIDED BY TENANT HARDWARE SUPPLIER.
8. THE BOTTOM 10 INCHES OF ALL DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
9. ALL SUPPORT SIGNAGE PROVIDED BY TENANT'S SUPPORT SIGNAGE SUPPLIER.
10. ALL SUPPORT SIGNAGE INSTALLED BY G.C.
11. ALL HARDWARE SHALL MATCH STOREFRONT, VERIFY WITH ARCHITECT PRIOR TO ORDERING

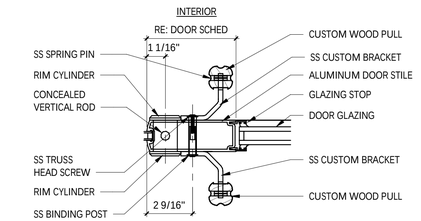
DOOR FRAMES



NOTE: GC TO VERIFY THE WALL THICKNESS PRIOR TO ORDERING DOOR FRAMES.

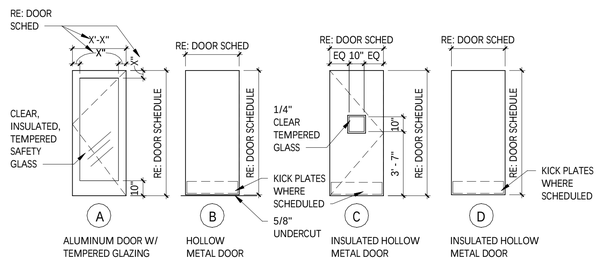
NOTE: GC TO VERIFY THE WALL THICKNESS PRIOR TO ORDERING DOOR FRAMES.

CUSTOM WOOD PULL

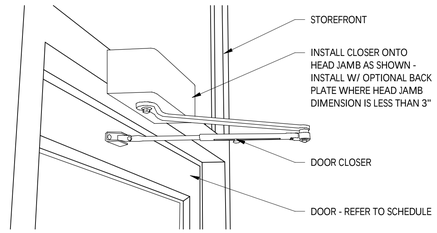


EXTERIOR

DOOR TYPES



DOOR CLOSER



TOP JAMB MOUNT INSTALLATION. (NOTE THAT BACKPLATE IS MISSING IN THIS INSTALLATION BECAUSE HEAD JAMB IS OF ADEQUATE HEIGHT TO RECEIVE ALL MOUNTING SCREWS WITHOUT IT.) WHEN IN DOUBT ABOUT THE HEAD JAMB DIMENSION OR STABILITY, ORDER THE BACKPLATE.

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · TAYLOR R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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STORE NO.: 5134
CROSS ROADS
11940 US HWY 380
CROSS ROADS, TX 76227

Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

1	07/14/24	REVISION 01

Drawn: S. CLARK
Checked: T. GRANDORF

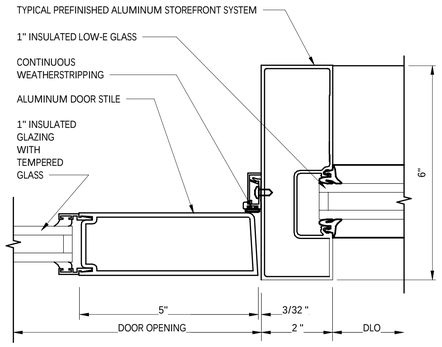
Project No.: CMG5134

Contents:

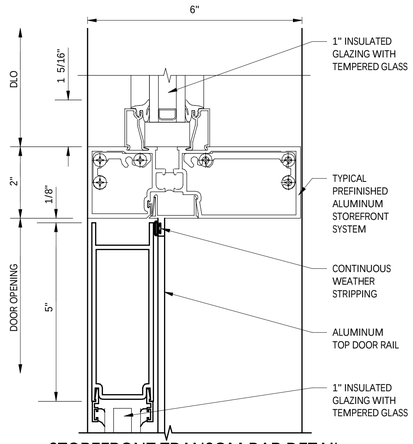
DOOR & HARDWARE SCHEDULE

A601

STOREFRONT DETAILS

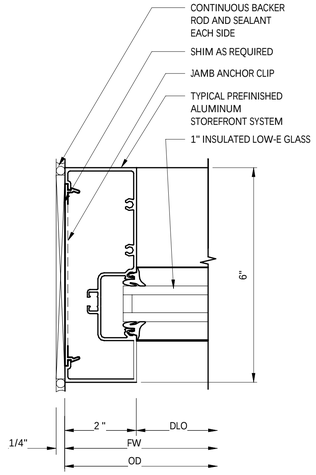


9 A602 STOREFRONT DOOR JAMB DETAIL
6" = 1'-0"

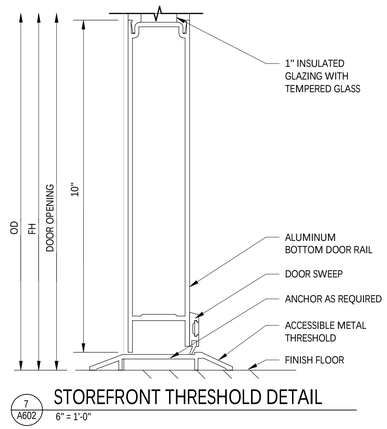


8 A602 STOREFRONT TRANSOM BAR DETAIL
6" = 1'-0"

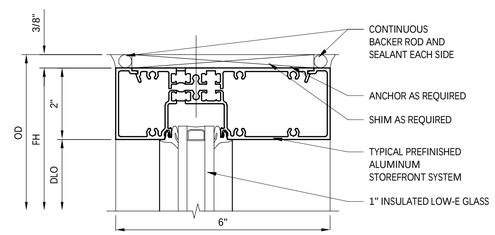
6 A602 STOREFRONT DOOR JAMB DETAIL
6" = 1'-0"



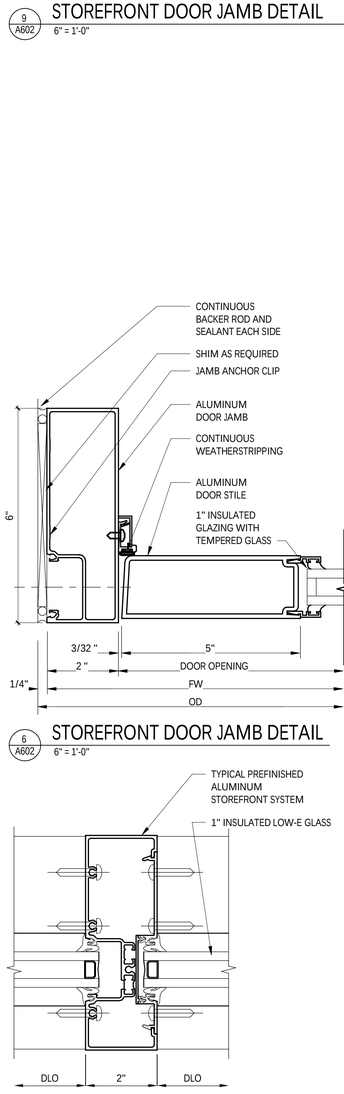
5 A602 STOREFRONT JAMB DETAIL
6" = 1'-0"



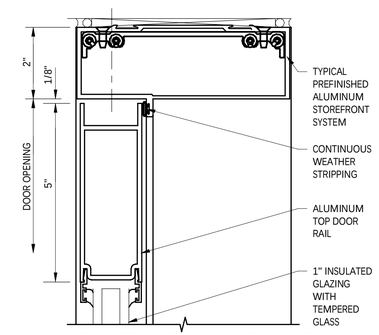
7 A602 STOREFRONT THRESHOLD DETAIL
6" = 1'-0"



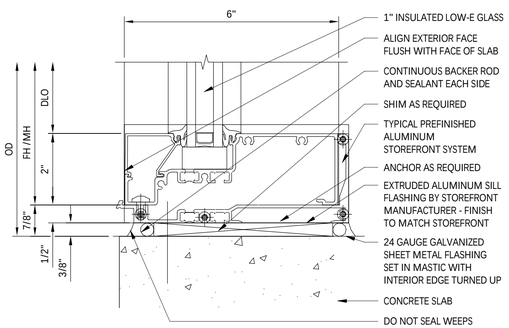
4 A602 STOREFRONT HEAD DETAIL
6" = 1'-0"



3 A602 STOREFRONT MULLION DETAIL
6" = 1'-0"



2 A602 STOREFRONT DOOR HEAD DETAIL
6" = 1'-0"



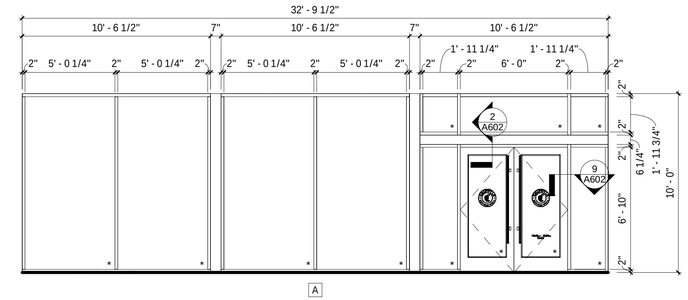
1 A602 STOREFRONT SILL DETAIL
6" = 1'-0"

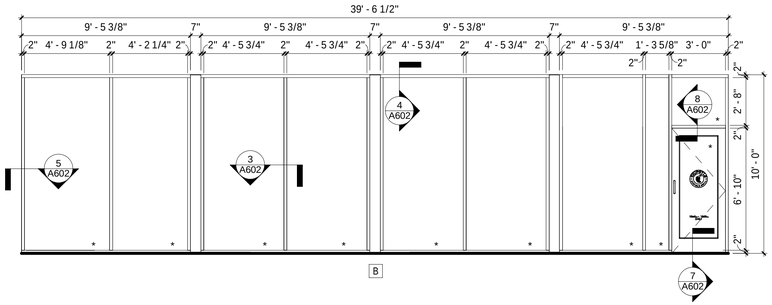
GENERAL NOTES

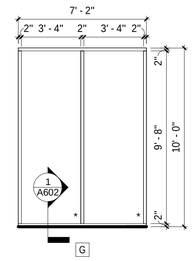
1. ALL WINDOW AND DOOR GLAZING IS TO BE CLEAR / INSULATED UNLESS NOTED OTHERWISE.
2. WINDOW AND DOOR GLAZING TO BE TEMPERED AT LOCATIONS INDICATED WITH "*".
3. NEW STOREFRONT FRAMING SYSTEM TO BE SUPPLIED BY G.C. G.C. TO VERIFY FRAMING OPENING SIZES AND MATERIALS WITH ARCHITECT AND/OR CHIPOTLE CONSTRUCTION MANAGER PRIOR TO FABRICATION.
4. STOREFRONT GLAZING DESIGN IS BASED ON KAWNEER PREFINISHED ALUMINUM STOREFRONT WITH 1" INSULATED GLAZING, REFER TO SPECIFICATIONS.
5. STOREFRONT SYSTEM IS 2" x 6" NOMINAL DIMENSION; CENTER SET, U.N.O.

STOREFRONT TYPES

NOTE: ALL VIEWS FROM THE EXTERIOR

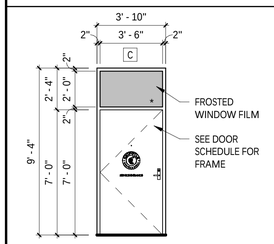


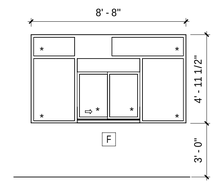




WINDOW TYPES

NOTE: ALL VIEWS FROM THE EXTERIOR





NOTE:
FULLY AUTOMATIC ELECTRIC PASS-THRU WINDOW BASED UPON QUIKSERV WINDOW DESIGN, NOTIFY ARCHITECT IF NOT USING A QUIKSERV WINDOW.

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
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SEAL

REGISTERED ARCHITECT · TAYLOR R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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CROSS ROADS, TX 76227

Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.: CMG5134

Contents: STOREFRONT DETAILS

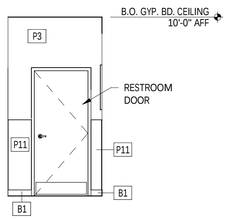
A602

ELEVATION LEGEND

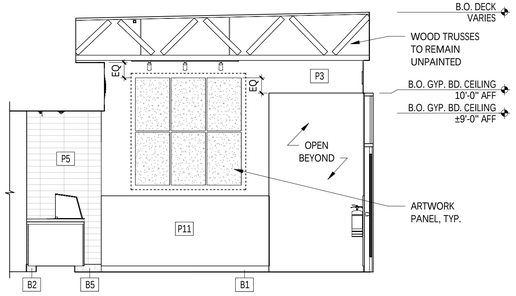
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

INT ELEV GENERAL NOTES

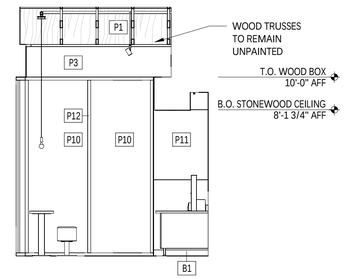
1	REFER TO SHEET A131 AND A132 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2	REFER TO A120 FOR FINISH SCHEDULE.
3	REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.



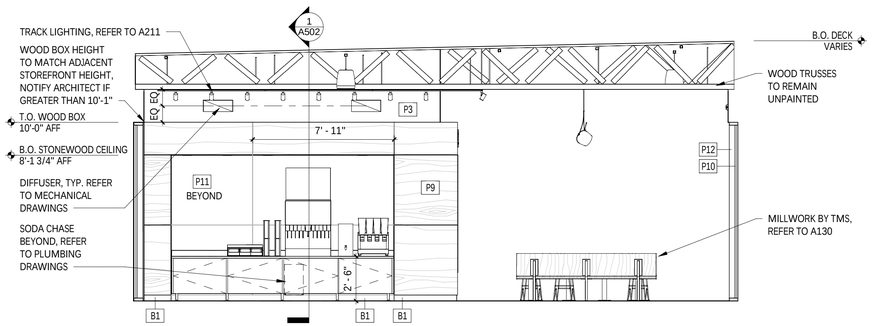
9 A701 INT ELEV - DINING
1/4" = 1'-0"



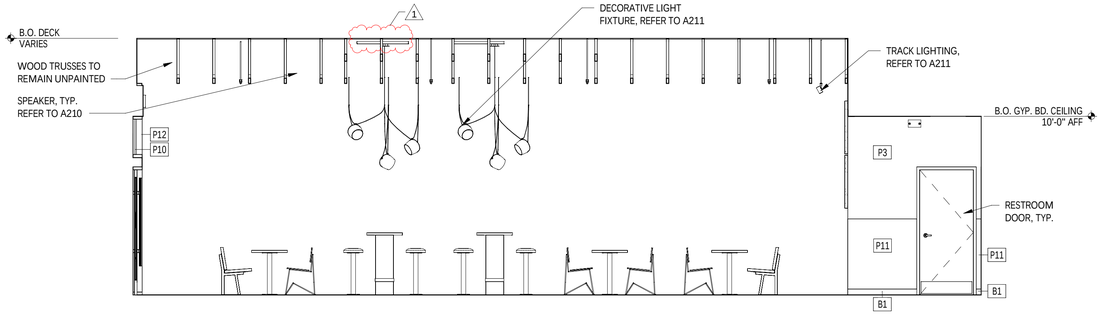
8 A701 INT ELEV - DINING
1/4" = 1'-0"



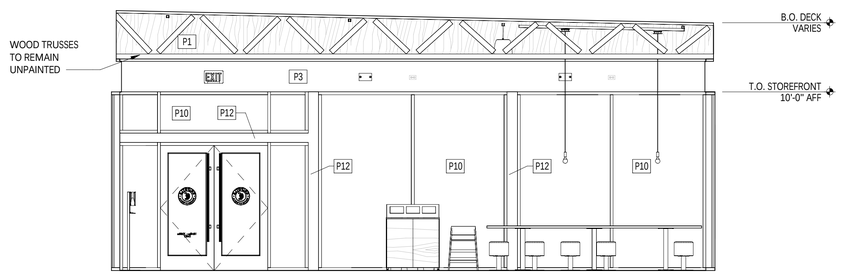
7 A701 INT ELEV - DINING
1/4" = 1'-0"



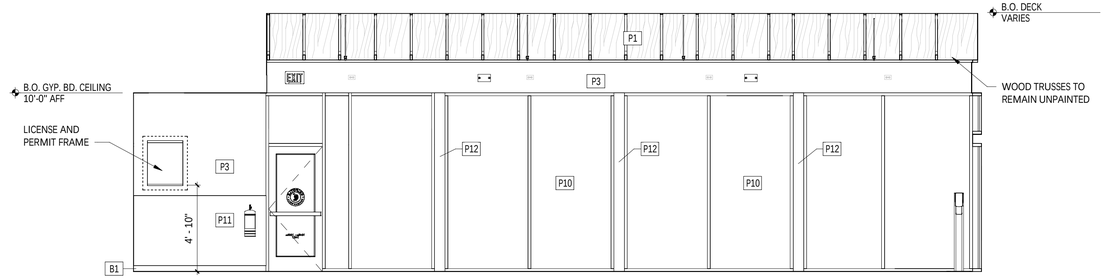
6 A701 INT ELEV - DINING
1/4" = 1'-0"



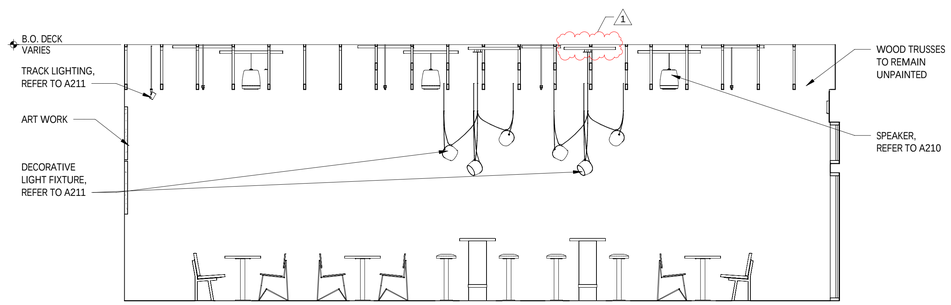
5 A701 INT ELEV - DINING
1/4" = 1'-0"



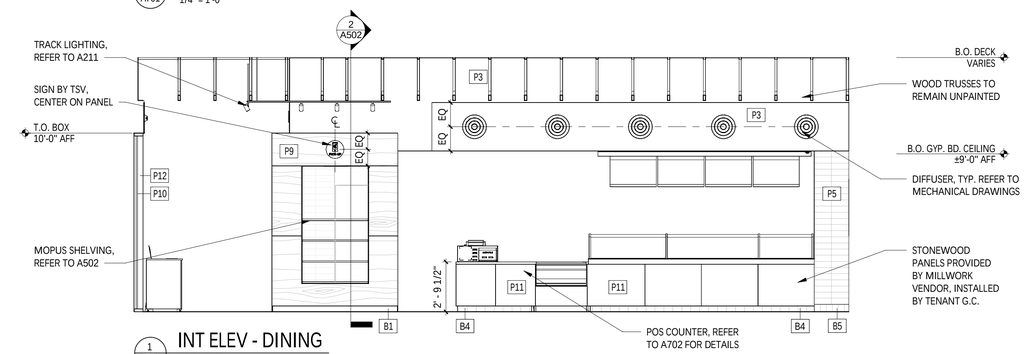
4 A701 INT ELEV - DINING
1/4" = 1'-0"



3 A701 INT ELEV - DINING
1/4" = 1'-0"



2 A701 INT ELEV - DINING
1/4" = 1'-0"



1 A701 INT ELEV - DINING
1/4" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

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SEAL

REGISTERED ARCHITECT
BRYAN R. GRANDORF
30533
STATE OF TEXAS

REVISION 1 - 7/1/24

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Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

1	07/14/24	REVISION 01

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

Contents:
ELEVATIONS - INTERIOR DINING

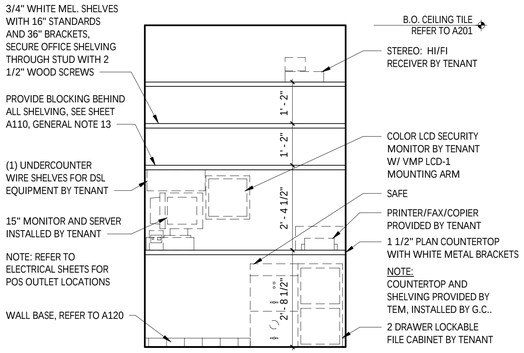
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ELEVATION LEGEND

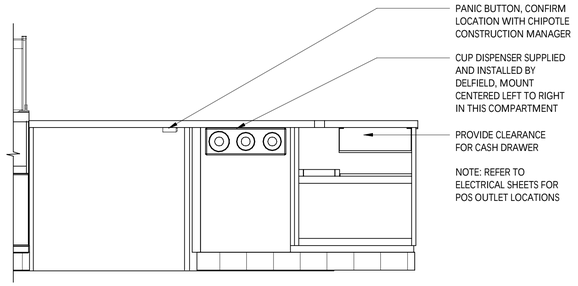
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

GENERAL NOTES

1. REFER TO SHEET A131 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELVING, TYP.
3. REFER TO A120 FOR FINISH SCHEDULE
4. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

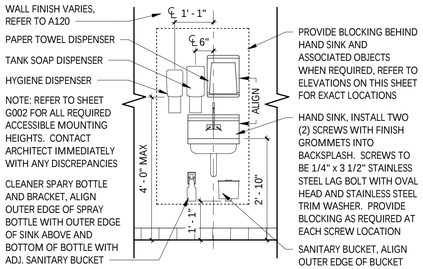


16 A702 TYP ELEV - OFFICE SHELVING
1/2" = 1'-0"

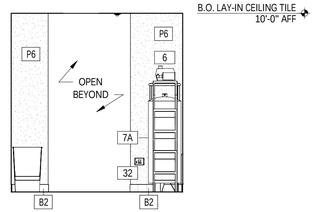


15 A702 TYP. ELEV - POS
3/4" = 1'-0"

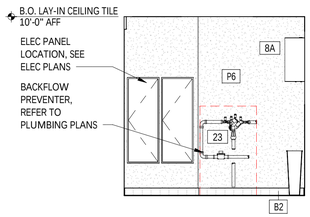
*THIS DETAIL IS FOR HANDSINK ACCESSORY DIMENSIONS ONLY. FOR ACTUAL ORIENTATION OF HAND SINK AND ACCESSORIES, REFER TO KITCHEN ELEVATIONS



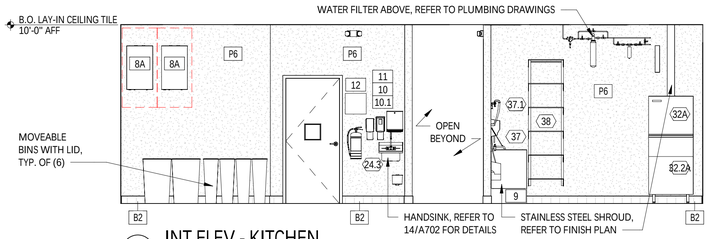
14 A702 TYP ELEV - HAND SINK
1/2" = 1'-0"



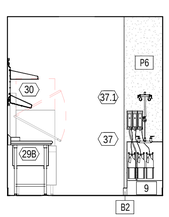
13 A702 INT ELEV - KITCHEN
1/4" = 1'-0"



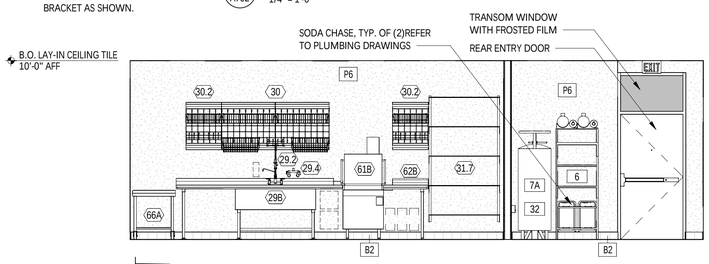
12 A702 INT ELEV - KITCHEN
1/4" = 1'-0"



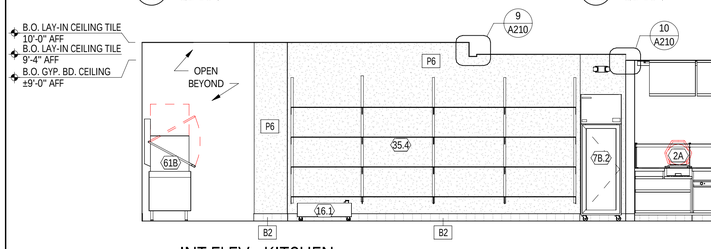
11 A702 INT ELEV - KITCHEN
1/4" = 1'-0"



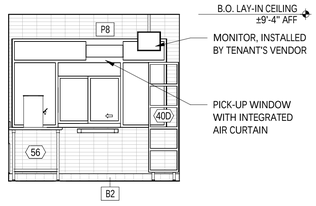
10 A702 INT ELEV - KITCHEN
1/4" = 1'-0"



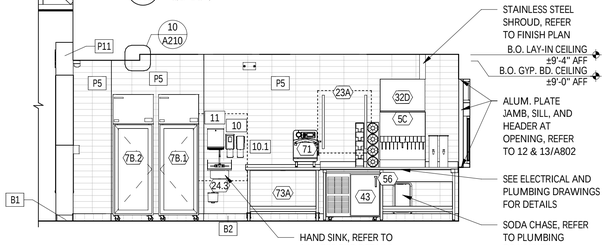
9 A702 INT ELEV - KITCHEN
1/4" = 1'-0"



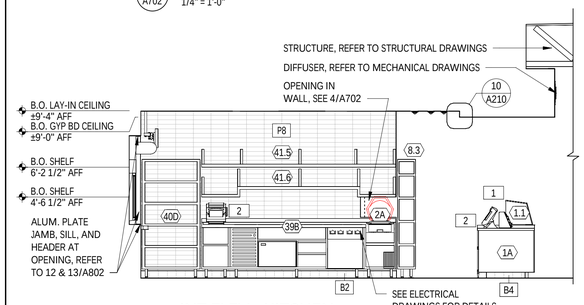
8 A702 INT ELEV - KITCHEN
1/4" = 1'-0"



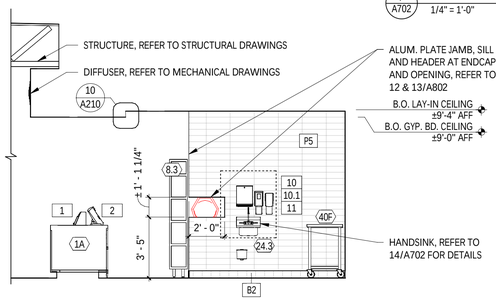
7 A702 INT ELEV - KITCHEN
1/4" = 1'-0"



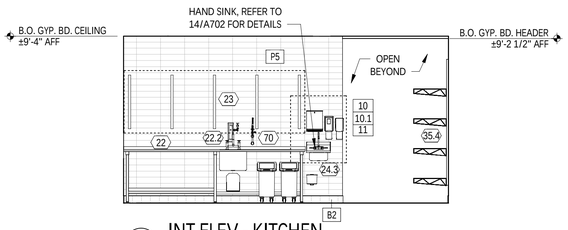
6 A702 INT ELEV - KITCHEN
1/4" = 1'-0"



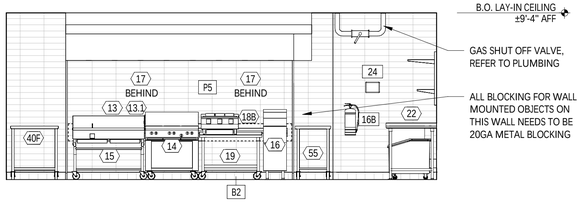
5 A702 INT ELEV - KITCHEN
1/4" = 1'-0"



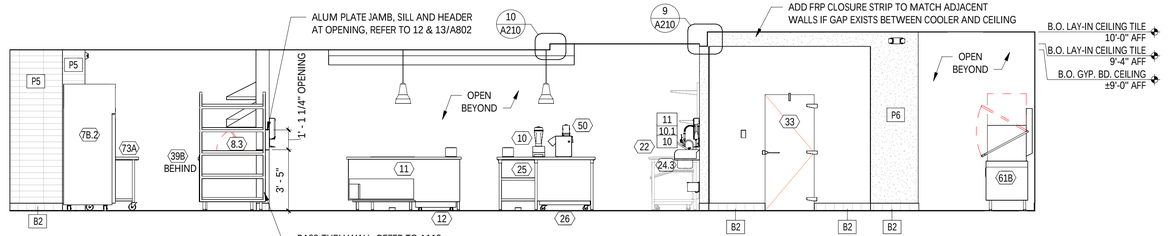
4 A702 INT ELEV - KITCHEN
1/4" = 1'-0"



3 A702 INT ELEV - KITCHEN
1/4" = 1'-0"



2 A702 INT ELEV - KITCHEN
1/4" = 1'-0"



1 A702 INT ELEV - KITCHEN
1/4" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · BRYAN R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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CHIPOTLE MEXICAN GRILL

CHIPOTLE MEXICAN GRILL, INC.
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COLUMBUS, OH 43218-2566
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STORE NO.: 5134
CROSS ROADS
11940 US HWY 380
CROSS ROADS, TX 76227

Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.: CMG5134

Contents:

ELEVATIONS - INTERIOR KITCHEN

A702

RESTROOM ACCESSORY SCHEDULE

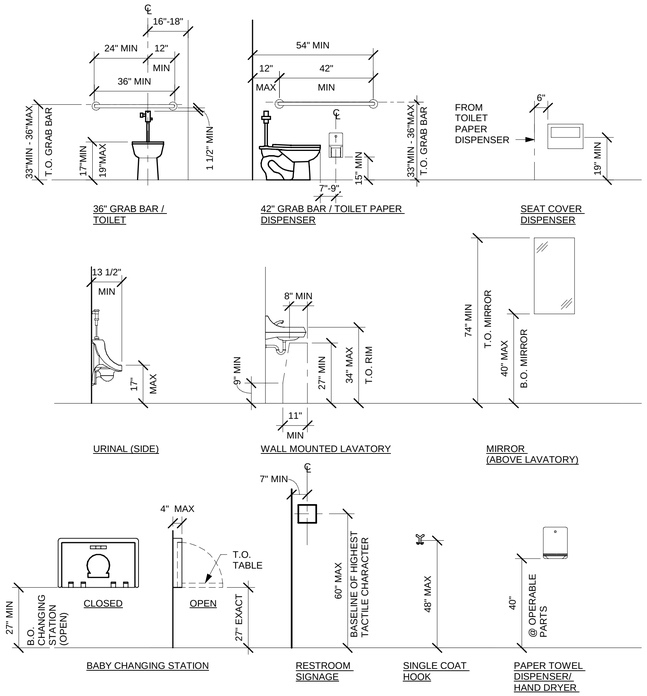
ITEM #	DESCRIPTION	MANUF	MODEL	QTY	PROVIDED BY	INSTALLED BY	UTILITY				MOUNTING HEIGHT	REMARKS
							ELEC	GAS	WATER	SEWER		
1A	Grab Bar - 36in	ASI	3501-36	2	WA	GC					36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
1C	Grab Bar - 18in	ASI	3501-18	2	WA	GC					40" AFF to Centerline of Bottom Return	Provide Plywood Blocking to Mount to Wall
1D	Grab Bar - 48in	ASI	3501-48	2	WA	GC					36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
3	Vandal Proof Mirror	Sentry Mirror	20" x 30" Vandal Proof Mirror	2	TS	GC					Bottom Edge of Reflecting Surface at 40" AFF	Provide Plywood Blocking to Mount to Wall
5	Touch-Free Soap Dispenser	Purell	CS8	2	WA	GC					47 1/2" AFF to Top of Unit	
7	Recessed Toilet Paper Dispenser	ASI	0031	2	WA	GC					29" AFF to Top of Unit	Recess Mounted in Wall - Rough Opening: 6 1/4"W X 12 1/4"H X 3 3/8"D Top of Rough Opening: 29 1/4" AFF
9	Recessed Convertible Paper Towel Dispenser and Waste Receptacle, Recess Mounted in Wall	Bobrick	B-3944	2	WA	GC					Bottom of Unit at Top of Base, Bottom of Dispenser to be at 40" AFF, Recess Mounting In Wall	Rough Opening: 16"W x 54 3/4"H x 4" D. Provide Plywood Blocking to Mount to Wall
12	Napkin Disposal - Recessed	ASI	0473	2	WA	GC					Top of Rough Opening @ 29" AFF	Recess Mounted in Wall - Rough Opening: 11 1/4"W X 15 3/4"H X 4"D
14	Restroom Hand Sink	SEE MEP	SEE MEP	2	GC	GC				•	Mount Bottom of Front Edge Of The Sink At Exactly 29" AFF	
14.1	Restroom Hand Sink Faucet	T&S	EC-3102-TMV-LF-05	2	KES	GC			•			To Be Furnished With .5 GPM Aerator Installed. Thermostatic mixing valve is also included.
15	Hand Sanitizer Dispenser	Purell	ES8	2	WA	GC					Align T.O. Unit With T.O. Soap Dispenser	
16A	Surface Mounted Horizontal Baby Changing Station	Koala Care	KB300-05	2	WA	GC					Mount Bottom of Open Changing Bed at Exactly 27" AFF	GC to Provide adequate blocking to support the baby changing equipment. Blocking shall be installed in such a manner to not damage or compromise the rated assembly of the existing wall construction

GENERAL NOTES

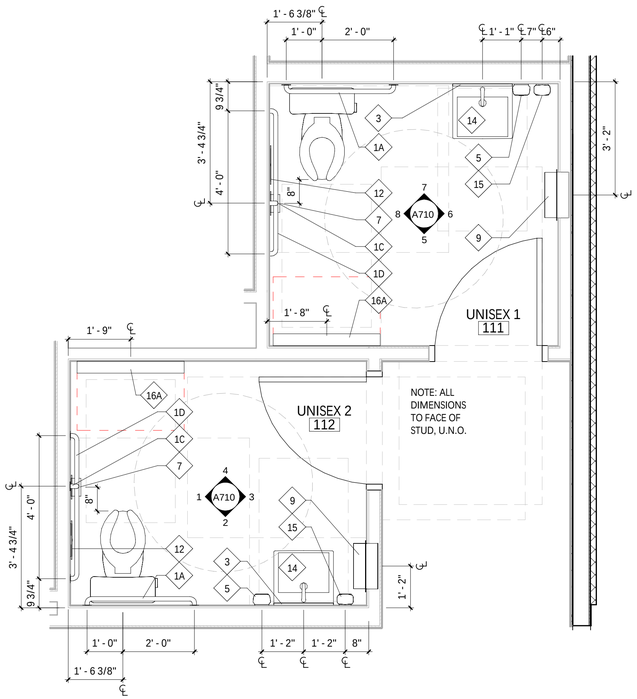
1. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTES.
2. REFER TO A802 FOR TILE NOTES.
3. ALL ACCESSORIES SHALL BE AS MANUFACTURED BY AMERICAN SPECIALTIES INC OR TENANT APPROVED EQUIVALENT UNLESS DESIGNATED OTHERWISE. PROVIDE SOLID FRT WOOD BLOCKING AS NECESSARY FOR INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. SEE SHEET G002 FOR ACCESSIBILITY GUIDELINES & MOUNTING HEIGHT REQUIREMENTS.
4. REFER TO A120 FOR FINISH SCHEDULE.
5. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

ELEVATION LEGEND

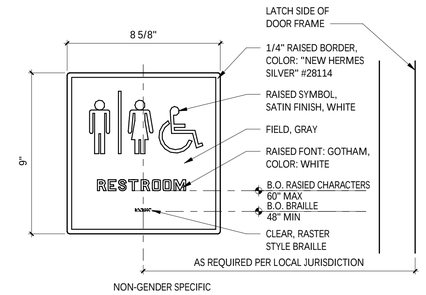
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.



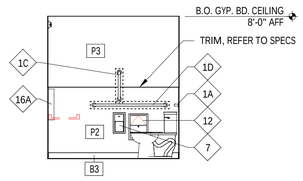
11 A710 ACCESSIBLE FIXTURE MOUNTING
3/8" = 1'-0"



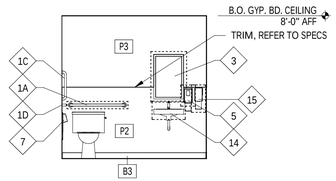
9 A710 ENLARGED PLAN
1/2" = 1'-0"



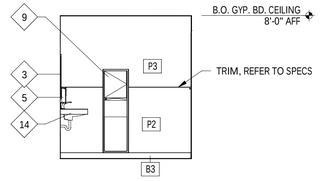
10 A710 TYP WASHROOM SIGN
3" = 1'-0"



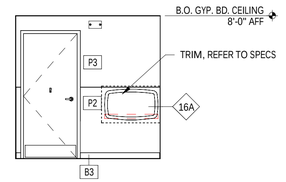
8 A710 UNISEX 1 RESTROOM - ELEV
1/4" = 1'-0"



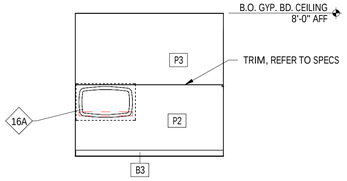
7 A710 UNISEX 1 RESTROOM - ELEV
1/4" = 1'-0"



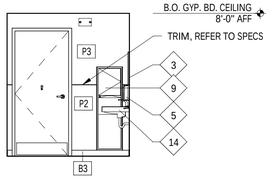
6 A710 UNISEX 1 RESTROOM - ELEV
1/4" = 1'-0"



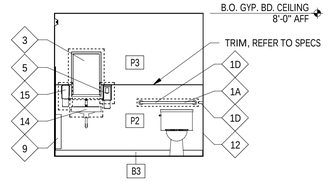
5 A710 UNISEX 1 RESTROOM - ELEV
1/4" = 1'-0"



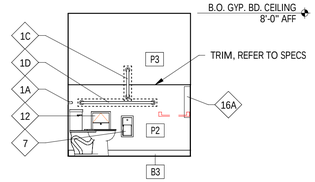
4 A710 UNISEX 2 RESTROOM - ELEV
1/4" = 1'-0"



3 A710 UNISEX 2 RESTROOM - ELEV
1/4" = 1'-0"



2 A710 UNISEX 2 RESTROOM - ELEV
1/4" = 1'-0"



1 A710 UNISEX 2 RESTROOM - ELEV
1/4" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

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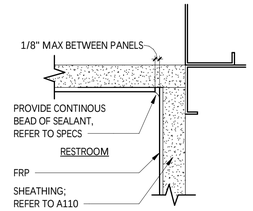
Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

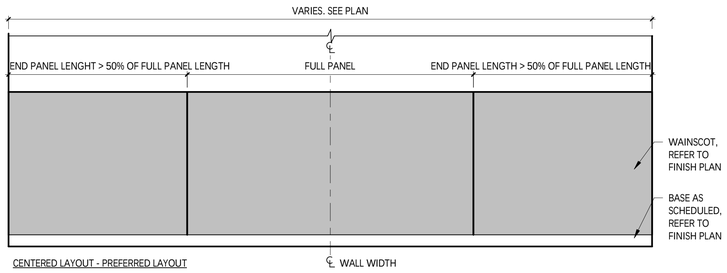
Contents:
RESTROOM DETAILS

A710

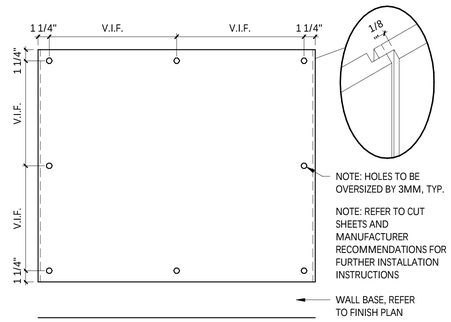
NOTE: ALL CONCEALED WOOD TO BE FRT RATED



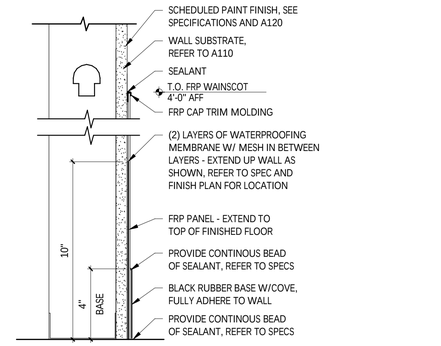
20 A801 PLAN - RR FRP INSIDE CORNER
6" = 1'-0"



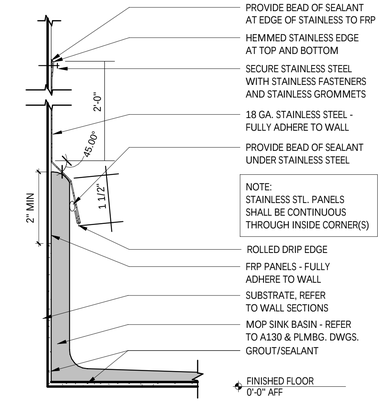
16 A801 WAINSCOT LAYOUT
1/2" = 1'-0"



19 A801 WAINSCOT DETAILS
1 1/2" = 1'-0"

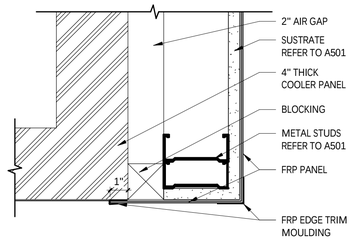


18 A801 SECTION @ RR FRP WAINSCOT W/RUBBER BASE
3" = 1'-0"

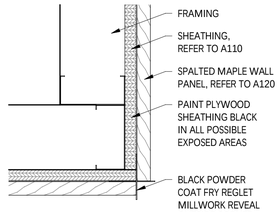


17 A801 SECTION @ MOP SINK
6" = 1'-0"

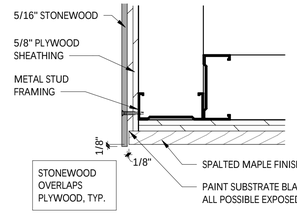
15 A801 NOT USED
N.T.S.



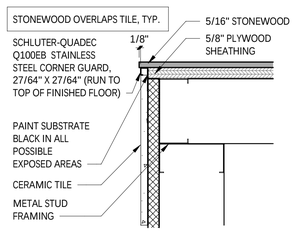
14 A801 PLAN - FRP CLOSER @ COOLER
3" = 1'-0"



13 A801 PLAN - WOOD TO WOOD CORNER
3" = 1'-0"

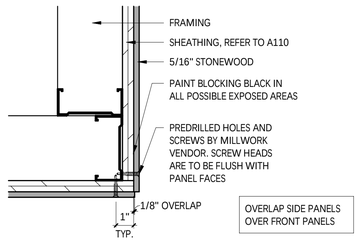


12 A801 PLAN - WOOD TO STONEWOOD CORNER
3" = 1'-0"

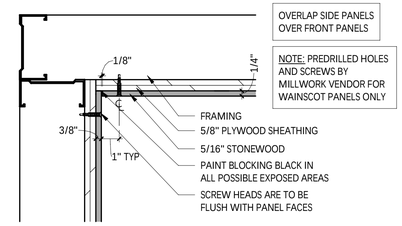


11 A801 PLAN - STONEWOOD TO TILE CORNER
3" = 1'-0"

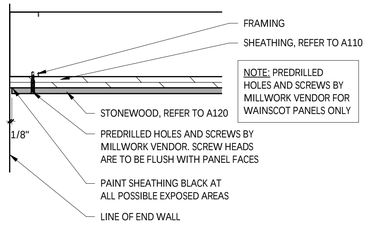
10 A801 NOT USED
N.T.S.



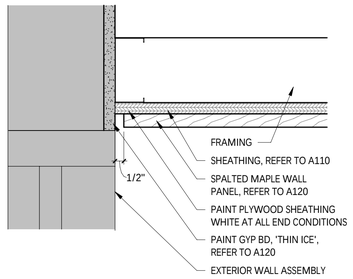
9 A801 PLAN - STONEWOOD CORNER @ WAINSCOT
3" = 1'-0"



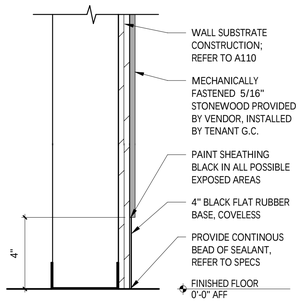
8 A801 PLAN - STONEWOOD INSIDE CORNER
3" = 1'-0"



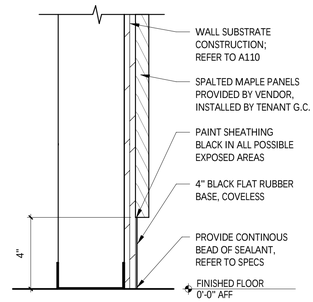
7 A801 PLAN - STONEWOOD END CONDITION
3" = 1'-0"



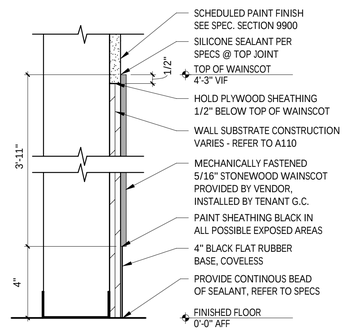
6 A801 PLAN - WOOD END CONDITION
3" = 1'-0"



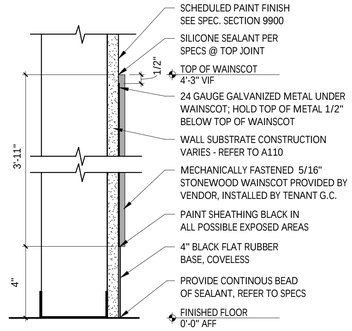
5 A801 SECTION @ STONEWOOD
3" = 1'-0"



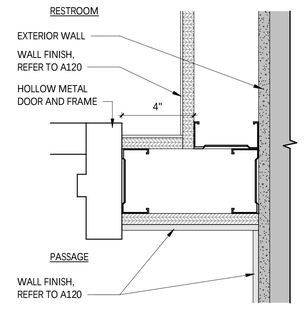
4 A801 SECTION @ SPALTED MAPLE
3" = 1'-0"



3 A801 SECTION @ WAINSCOT
3" = 1'-0"



2 A801 SECTION @ WAINSCOT
3" = 1'-0"



1 A801 PLAN - DOOR JAMB
3" = 1'-0"

ARCHITECT OF RECORD

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REGISTERED ARCHITECT · TAYLOR R. GRANDORF · 30533 · STATE OF TEXAS

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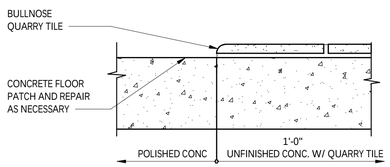
Contents:

FINISH DETAILS

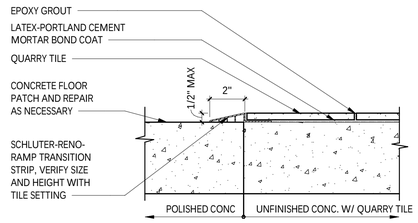
A801

GENERAL NOTES

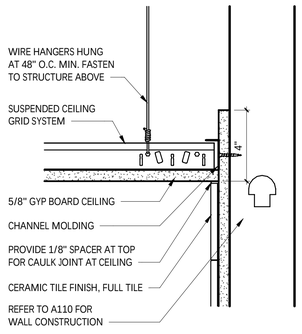
1.	TILE INSTALLER SHALL COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE LAYOUT OF ALL WALL TILE PRIOR TO INSTALLATION. GENERAL CONTRACTOR SHALL PREPARE WALLS AS TO NOT HAVE ANY CUT TILES IN EITHER DIRECTION (HORIZONTALLY OR VERTICALLY) ON ANY WALLS. LAYOUT SHALL BE APPROVED BY CHIPOTLE CM PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS FOR DIRECTION PRIOR TO INSTALLATION. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTOR'S COST.
2.	IF REQUIRED TO CUT TILES, CONTRACTOR TO MEASURE OVERALL WALL WIDTH AND DETERMINE WHICH SOLUTION WILL ALLOW FOR THE GREATER THAN 25% TILE WIDTH AT WALL TERMINATIONS.
3.	UNLESS OTHERWISE NOTED, ALL WALL TILES SHOULD BE CENTERED ON THE WIDTH OF THE WALL PER DETAIL 1 OR 2.
4.	THERE SHOULD NEVER BE ANY CUT TILES VERTICALLY BETWEEN THE BASE AND THE CEILING. REFER TO A120 AND A201.



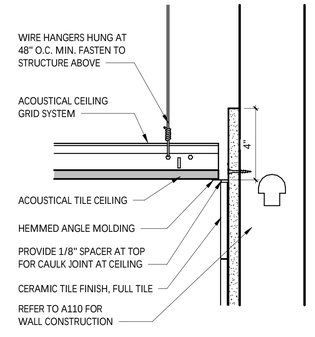
23 A802 FLOOR TRANSITION @ READY TO DRINK
3" = 1'-0"



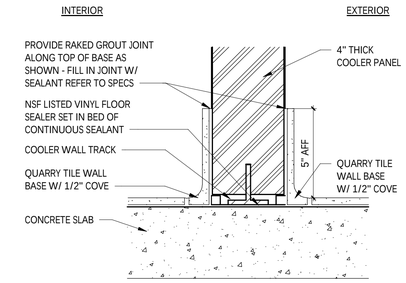
22 A802 FLOOR TRANSITION W/ RAMP
3" = 1'-0"



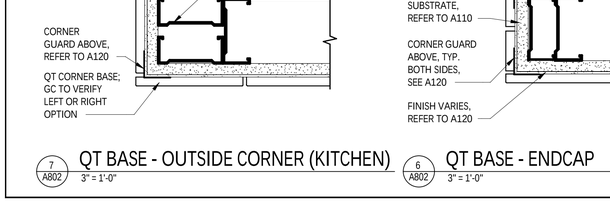
21 A802 TILE DETAIL @ GYP BD CEILING
3" = 1'-0"



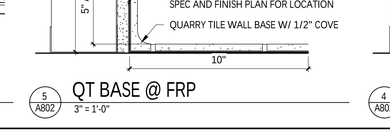
20 A802 TILE DETAIL @ SUSPENDED CEILING
3" = 1'-0"



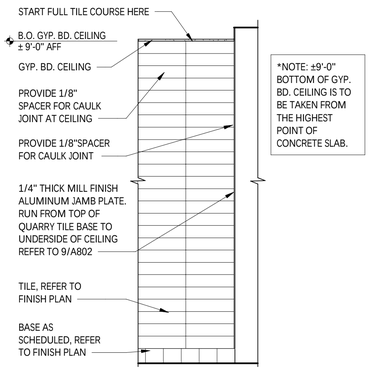
19 A802 COOLER WALL @ QT
3" = 1'-0"



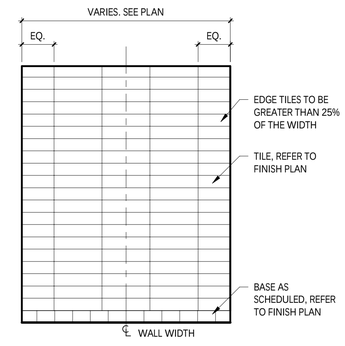
18 A802 TYPICAL QT FLOOR DRAIN/SINK DETAIL
3" = 1'-0"



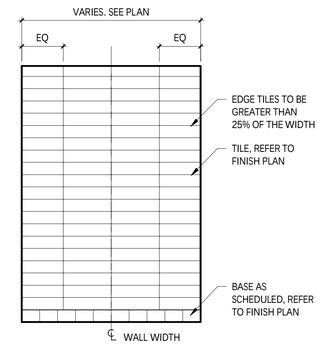
17 A802 STUB SECTION DETAIL UNDER TABLES
3" = 1'-0"



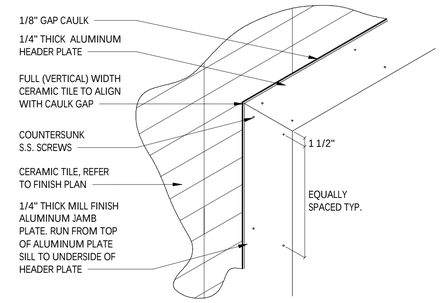
16 A802 KITCHEN WALL ENDCAP TILE LAYOUT
1/2" = 1'-0"



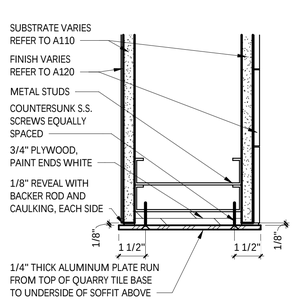
15 A802 TILE CENTERED LAYOUT
1/2" = 1'-0"



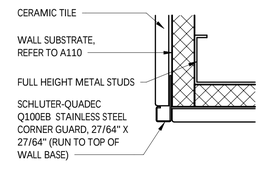
14 A802 JOINT CENTERED LAYOUT
1/2" = 1'-0"



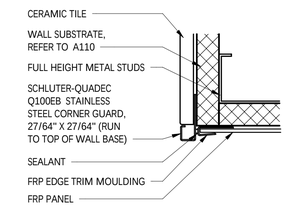
13 A802 TILE DETAIL @ ALUMINUM PLATE HEADER
1" = 1'-0"



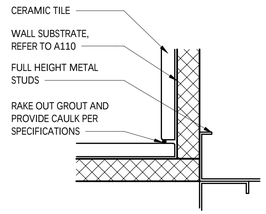
12 A802 ALUMINUM PLATE @ JAMB/HEAD/SILL
3" = 1'-0"



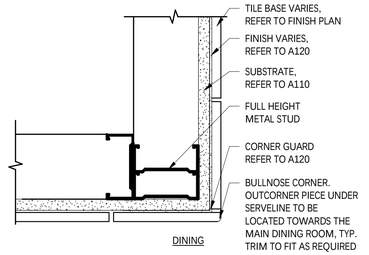
11 A802 TILE TO TILE OUTSIDE CORNER
6" = 1'-0"



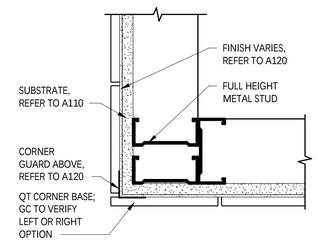
10 A802 TILE TO FRP OUTSIDE CORNER
6" = 1'-0"



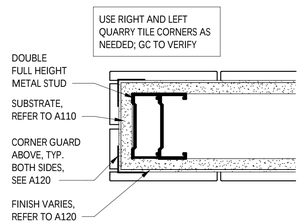
9 A802 TILE TO TILE INSIDE CORNER
6" = 1'-0"



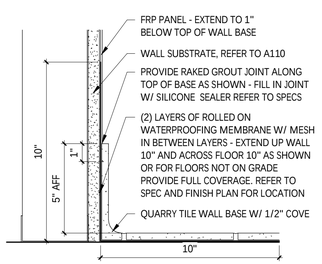
8 A802 TILE BASE - OUTSIDE CORNER (DINING)
3" = 1'-0"



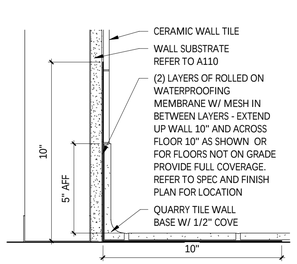
7 A802 QT BASE - OUTSIDE CORNER (KITCHEN)
3" = 1'-0"



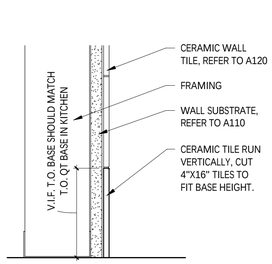
6 A802 QT BASE - ENDCAP
3" = 1'-0"



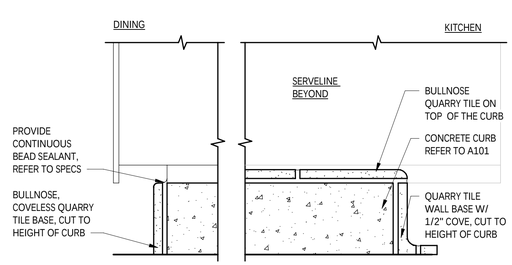
5 A802 QT BASE @ FRP
3" = 1'-0"



4 A802 QT BASE @ CERAMIC TILE
3" = 1'-0"



3 A802 CERAMIC TILE BASE
3" = 1'-0"



2 A802 QT @ CURB
3" = 1'-0"

1 A802 QT @ CURB
3" = 1'-0"

ARCHITECT OF RECORD

ROGUE ARCHITECTS

513 MAIN STREET, SUITE 300
FORT WORTH, TEXAS 76102
(817) 820-0433

SEAL

REGISTERED ARCHITECT · BRYAN R. GRANDORF · 30533 · STATE OF TEXAS

REVISION 1 - 7/1/24

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Issue Record:

05/30/24	COMBINE PERMIT SET

Revisions:

Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

Contents:
TILE DETAILS

A802



4 A900 INTERIOR PERSPECTIVE



3 A900 INTERIOR PERSPECTIVE



2 A900 INTERIOR PERSPECTIVE



1 A900 INTERIOR PERSPECTIVE

ARCHITECT OF RECORD

ROGUE ARCHITECTS

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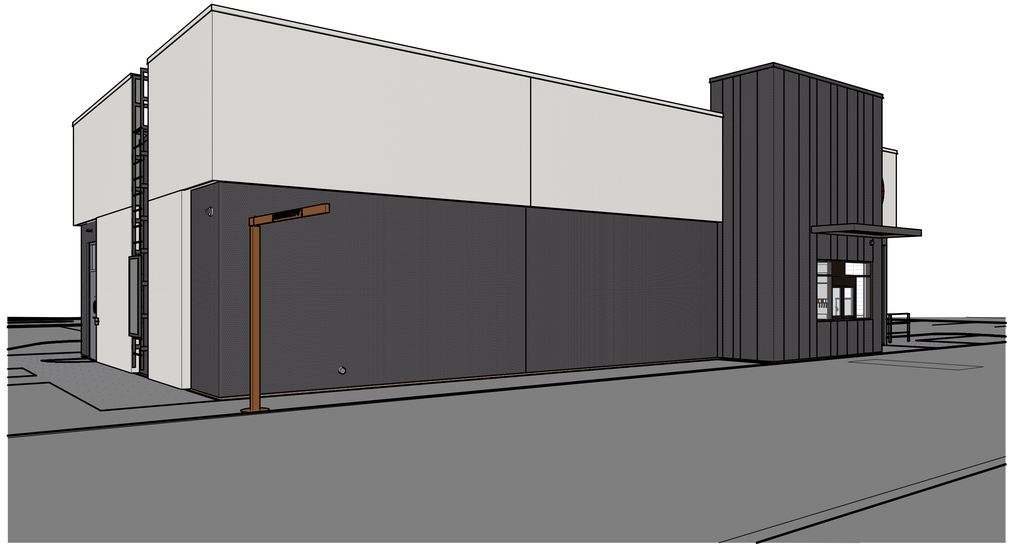
Contents:

INTERIOR PERSPECTIVES

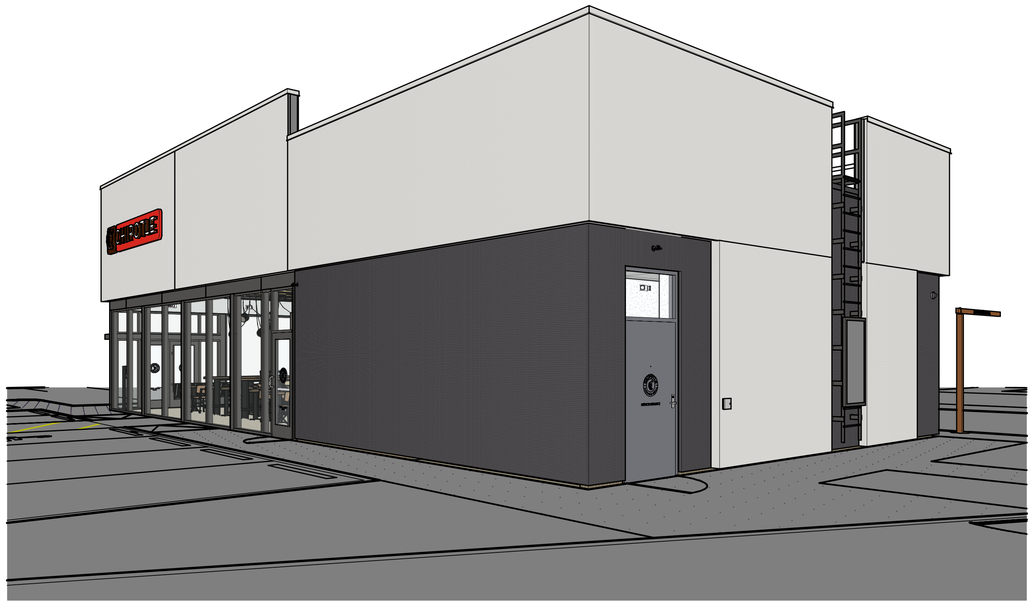
A900



4 A901 EXTERIOR PERSPECTIVE



3 A901 EXTERIOR PERSPECTIVE



2 A901 EXTERIOR PERSPECTIVE



1 A901 EXTERIOR PERSPECTIVE

ARCHITECT OF RECORD

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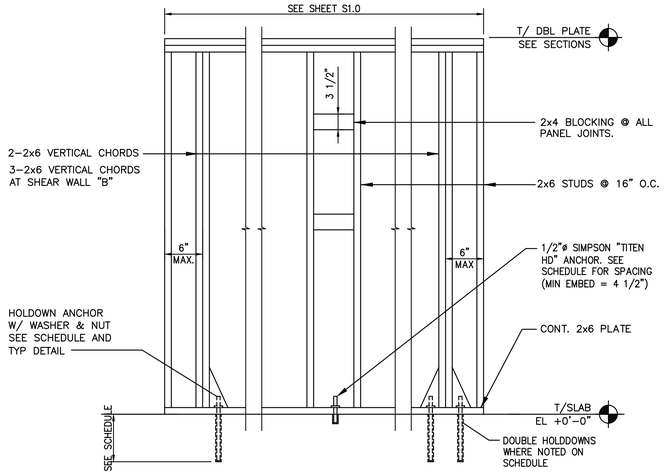
Drawn: S. CLARK
Checked: T. GRANDORF

Project No.
CMG5134

Contents:
EXTERIOR PERSPECTIVES

A901

SHEAR WALL SCHEDULE



MARK	SHEATHING	SHEATHING NAIL SIZE	SHEATHING NAIL** SPACING @ PANEL EDGES	HOLDOWN* ANCHORS	ANCHOR BOLT SPACING	REMARKS
A	1-15/32"	8d	4"	1-HDU8-SDS2.5 1"ø ASTM A449 (HS)	48"	Holdown Anchors should have a Min. Emb. of 18" (SEE DETAIL B)
B	2-15/32"	10d	4"	1-HDU8-SDS2.5 1"ø ASTM A449 (HS)	48"	Holdown Anchors should have a Min. Emb. of 18" (SEE DETAIL B)

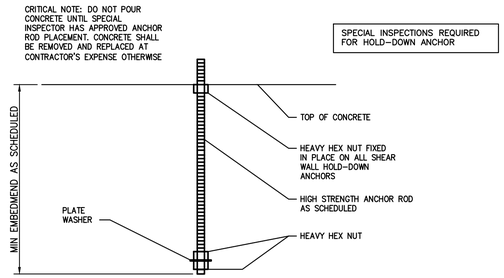
NOTES:

1. SHEATHING PANELS MAY BE LAID UP HORIZONTALLY. NO VERTICAL PANEL EDGES ON VERTICAL CHORDS.
2. WIND LOADS GOVERN OVER SEISMIC LOADS UNLESS AS NOTED IN THE REMARKS COLUMN.
3. ALL MEMBERS TO BE DOUGLAS-FIR-LARCH NO.1 OR BETTER, U.N.O.
4. NAIL ALL SHEATHING TO INTERMEDIATE SUPPORTS @ 12" O.C.
5. SCREW HOLDOWN ANCHORS TO VERTICAL MEMBER W/ 20-"SDS1/4x2 1/2" SCREWS EACH
6. IF SILL PLATE OR TOP PLATES ARE NOT CONTINUOUS, CONTACT THE ENGINEER OF RECORD FOR SOLUTION.

** SEE GENERAL NOTES FOR ROOF AND WALL SHEATHING AND ATTACHMENT DETAILS.

SPECIAL INSPECTIONS REQUIRED FOR HOLD-DOWN ANCHOR

(A) SHEAR WALL SCHEDULE
NTS



(B) TYPICAL SHEAR WALL HOLD-DOWN ANCHORS
NTS

SCHEDULE OF SPECIAL INSPECTIONS

ITEM	TASK	PERIODIC INSPECTION
SOILS	VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE DESIRED BEARING CAPACITY	X
	VERIFY CLASSIFICATION, TESTING, LEFT THICKNESS AND PLACEMENT OF CONTROLLED FILL MATERIALS	X
	OBSERVE SITE GRADE AND SITE PREPARATION PRIOR TO PLACEMENT OF CONTROLLED FILL	X
	OBSERVE SITE GRADE AND SITE PREPARATION PRIOR TO PLACEMENT OF CONTROLLED FILL	X
CONCRETE	INSPECTION OF REINFORCING STEEL SIZE, GRADE AND PLACEMENT	X
	VERIFY APPROVED MIX DESIGN IS BEING UTILIZED	X
	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF CONCRETE MEMBERS BEING FORMED	X
	INSPECT EMBED PLATES, BOLTS, AND POST INSTALLED ANCHORS INSTALLED IN CONCRETE FOR SIZE, NUMBER AND LOCATIONS	X
STRUCTURAL STEEL	INSPECTION FABRICATOR'S FABRICATION, QUALITY CONTROL PROCEDURES, AND CERT OF COMPLIANCE FOR ALL MATERIALS	X
	INSPECTION OF HIGH STRENGTH BOLTING	X
	INSPECTION OF WELDING (IN FIELD)	X
	INSPECTION OF CONNECTION DETAILS FOR COMPLIANCE WITH APPROVED SHOP DRAWINGS	X
WOOD	VERIFY GRADE AND THICKNESS OF WALL AND ROOF SHEATHING	X
	SPOT-CHECK NOMINAL SIZE OF FRAMING MEMBERS	X
	VERIFY WALL AND ROOF SHEATHING FASTENER SIZE, SPACING AND PENETRATION	X

TRUSS LOADING SCHEDULE

TRUSS LOADING

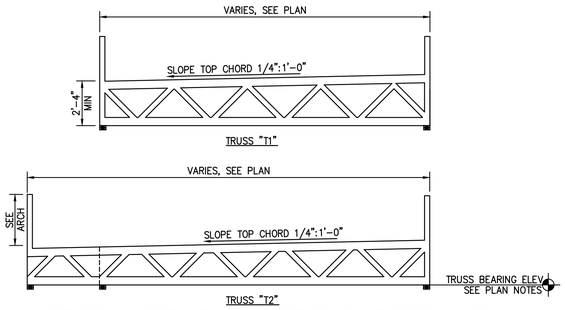
UNIFORM WIND (ALL TRUSSES)
COMPUTE PRESSURES PER ASCE-7 INCLUDING ON VERTICAL EXTENSION

UNIFORM LIVE, FLAT ROOF SNOW (ALL TRUSSES)
SEE GENERAL NOTES

UNIFORM DEAD

20 PSF (FOR NON-UPLIFT LC)
12 PSF (FOR UPLIFT LC)

NOTE: ALL STANDARD LOADS NOTED ABOVE ARE IN ADDITION CONCENTRATED LOADS FROM RTU'S



TRUSS MANUF NOTE: CEILING HEIGHTS BASED ON TRUSS DEPTH NOT EXCEEDING NOTED DEPTHS

TRUSS PROFILES AND LOADING SCHEDULE
NTS

STRUCTURAL GENERAL NOTES:

DESIGN AND LOADING

THE STRUCTURAL DESIGN OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA:

1. BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE
2. FLOOR LIVE LOAD: 100 PSF
3. ROOF LIVE LOAD: 25 PSF
   ROOF DEAD LOAD: 20 PSF (NON UPLIFT LOAD CASES) 17 PSF (UPLIFT LOAD CASES)
4. BASIC WIND SPEED: 106 MPH (3 SEC GUST)
   RISK CATEGORY CATEGORY: II
   WIND EXPOSURE: C
   PRESSURES PER ASCE 7-16
5. SEISMIC OCCUPANCY CATEGORY: II
   IMPORTANCE FACTOR: 1.00
   SITE CLASS: D (ASSUMED)
   Ss = 0.122g, S1= 0.058g; Sds = 0.13g, Sd1 = 0.093g
   DESIGN CATEGORY: B
   ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
6. GROUND SNOW LOAD: 5 PSF
   IMPORTANCE FACTOR: 1.0
   MINIMUM FLAT ROOF SNOW LOAD: 5 PSF

FOUNDATION NOTES

1. ALLOWABLE SOIL BEARING CAPACITY = 2000 PSF FOR FOOTINGS INSTALLED IN SELECT FILL (AT DEPTHS INDICATED ON DRAWINGS) AS RECOMMENDED BY GEOSCIENCE ENGINEERS LLC. IN THEIR REPORT NO: 20-D65337 DATED NOVEMBER 2020.
2. ALL SLABS ON GRADE SHALL BE POURED ON MINIMUM COMPACTED STRUCTURAL FILL MATERIAL AS NOTED ON GEOTECHNICAL REPORT.
3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IMMEDIATELY IN THE EVENT THAT ANY SOFT SPOTS OR PREVIOUS FILL MATERIAL ARE ENCOUNTERED WHILE EXCAVATING.
4. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY A SOILS TESTING LABORATORY PRIOR TO PLACEMENT OF CONCRETE.
5. A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING FIRM SHALL CONFIRM THAT ADEQUATE BEARING DEPTH REQUIREMENTS FOR THE FOOTINGS HAVE BEEN MET PRIOR TO POURING CONCRETE.

CONCRETE AND REINFORCING

1. ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) LATEST EDITIONS.
2. ALL NORMAL WEIGHT CONCRETE (145 PCF) SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI (3500 PSI FOR SLABS).
3. ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED AS RECOMMENDED BY ACI 318 OR ACI 301.
4. TEST CYLINDERS SHALL BE MADE AND TESTED AS OUTLINED IN CHAPTER 16 OF ACI 301.
5. MAXIMUM WATER CEMENT RATIO = 0.5
6. REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. ALL REINFORCING AND ACCESSORIES SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI STANDARD 315 AND 315R.
7. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN ON THE PLANS AND DETAILS. PLASTIC COATED ACCESSORIES SHALL BE USED IN ALL EXPOSED CONCRETE WORK.
8. THE GENERAL CONTRACTOR SHALL CHECK WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND THE SUB-CONTRACTORS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR PROPER LOCATION.

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "STEEL CONSTRUCTION MANUAL", 13TH EDITION.

STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

ANCHOR RODS	F1554 GRADE 36
HIGH STRENGTH STRUCTURAL BOLTS	A325-N U.N.O.
STRUCTURAL SHAPES (W)	A992
STRUCTURAL SHAPES (M, S, C, MC, PLATES)	A36
STRUCTURAL SHAPES (HP)	A572
STRUCTURAL TUBING (HSS)	A500 GRADE B
STRUCTURAL ANGLES	A36

ALL WELDING ELECTRODES SHALL BE E70-XX. ALL SHOP AND FIELD WELDING SHALL BE MADE IN ACCORDANCE WITH A.W.S. D1.1 "CODE FOR WELDING IN BUILDING CONSTRUCTION" AND SHALL BE MADE BY CERTIFIED WELDERS.

ENGINEERED WOOD TRUSSES

SHOP DRAWINGS FOR ALL TRUSSES SHALL BE MANUFACTURED BY A REGISTERED MANUFACTURER.

TRUSS DESIGN SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF IDAHO AND SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION, INCLUDING ALL CONNECTIONS AND HANGERS FOR CONNECTIONS BETWEEN TRUSSES.

TRUSSES SHALL BE DESIGNED FOR THE LOADS INDICATED. TRUSSES SHALL BE DESIGNED FOR THOSE LOADS INDICATED AS WELL AS FOR ANY UNBALANCED SNOW LOADS, NOT ACTING SIMULTANEOUSLY, REQUIRED BY THE BUILDING CODE. DEAD LOADS SHALL BE 10 PSF AT THE TOP CHORD AND 10 PSF AT THE BOTTOM CHORD FOR GRAVITY LOADS. FOR WIND UPLIFT LOAD CASES, THE TOP AND BOTTOM CHORD DEAD LOADS SHALL BE NO MORE THAN 10 PSF EACH.

ALL ROOF TRUSSES SHALL BE "SHAPED" AS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS.

ALL TRUSSES MUST BE SECURELY BRACED BOTH DURING ERECTION AND AFTER PERMANENT INSTALLATION IN ACCORDANCE WITH "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS" BY THE TPI. ERECTION BRACING SHALL HOLD TRUSSES STRAIGHT AND PLUMB AND IN A SAFE CONDITION UNTIL DECKING AND PERMANENT TRUSS BRACING HAVE BEEN FASTENED FORMING A STRUCTURALLY SOUND FRAMING SYSTEM. ALL ERECTION AND PERMANENT BRACING SHALL BE INSTALLED AND ALL TRUSSES PERMANENTLY FASTENED BEFORE APPLICATION OF ANY LOADS. PERMANENT STRUCTURAL CROSS-BRACING SHALL BE IN ACCORDANCE WITH ARCHITECTURAL, ENGINEERING AND MANUFACTURER'S DRAWINGS. MATERIALS USED IN BRACING SHALL BE FURNISHED BY ERECTION CONTRACTOR.

EACH END OF EACH TRUSS SHALL BE SECURED TO THE SUPPORTING MEMBER BY EITHER A JOIST HANGER OR A HURRICANE/SEISMIC ANCHOR, AS APPROPRIATE WITH SUPPORT CONDITIONS.

MEMBERS OF INDIVIDUAL TRUSSES SHALL NOT BE CUT OR REMOVED NOR SHALL HOLES BE MADE IN TRUSS MEMBERS WITHOUT PRIOR WRITTEN APPROVAL OF THE TRUSS MANUFACTURER AND ITS ENGINEER. M.E.P. .

SAWN LUMBER

ALL GRADES OF LUMBER SHALL BE RATED BY THE SOUTHERN PINE INSPECTION BUREAU (SPIB), OR THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). LUMBER GRADES SHALL BE AS FOLLOWS, WITH A MAXIMUM MOISTURE CONTENT OF 19%:

- SOUTHERN PINE NO. 1.
- DOUGLAS FIR-LARCH NO. 1.
- HEM-FIR NO. 1

BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.

MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE OR TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE IF NO OTHER CRITERIA IS GIVEN.

CONNECTORS SHOWN ON THE DETAILS ARE MANUFACTURED BY SIMPSON. WRITTEN APPROVAL BY ENGINEER REQUIRED FOR SUBSTITUTIONS.

ROOF & WALL SHEATHING

ALL SHEATHING SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION (APA) DESIGN SPECIFICATIONS, LATEST EDITION. SHEATHING SHALL BE CONTINUOUS OVER THREE ADJACENT SPANS MINIMUM.

WALL SHEATHING SHALL BE 15/32" (1/2" NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 32/16. ALL WALL SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/ 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES (BOUNDARY NAILING) AND 12" O.C. AT INTERMEDIATE SUPPORTS, U.N.O. SEE SHEAR WALL SCHEDULE ON THIS SHEET FOR ADD'L REQUIREMENTS AT SHEAR WALL.

ROOF SHEATHING SHALL BE 23/32" (3/4" NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 48/24, UNO. ALL ROOF SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/10d COMMON NAILS @ 6" O.C. AT PANEL EDGES (BOUNDARY NAILING), AND 12" O.C. AT INTERMEDIATE SUPPORTS. U.N.O.

SHOP DRAWINGS

SHOP DRAWING SUBMITTALS SHALL CONSIST OF A MINIMUM OF 2 COPIES OF EACH DRAWING.

SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR TO VERIFY THAT SUBMITTAL IS COMPLETE PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.

DRAWINGS CREATED BY THE ENGINEER OF RECORD CANNOT BE REPRODUCED AND/OR USED AS A SHOP DRAWING SUBMITTAL.

SHOP DRAWING SUBMITTALS SHALL INCLUDE THE FOLLOWING:
1. CONCRETE MIX DESIGN
2. FOUNDATION REINFORCING BARS
3. STRUCTURAL STEEL
4. STRUCTURAL MASONRY
5. OPEN WEB JOISTS AND CALCULATIONS
6. ROOF SHEATHING
7. TRELLIS SYSTEM & CALCULATIONS
8. PARALLEL STRAND LUMBER (PSL)
9. LAMINATED VENEER LUMBER (LVL)
10. LAMINATED STRAND LUMBER (LSL)
11. SAWN LUMBER AND CONNECTORS

MISCELLANEOUS

ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.

THE CONTRACTOR SHALL ASSUME RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES, AND FOR SAFE CONDITIONS ON THE JOB SITE.

DO NOT SCALE THE DRAWINGS.

LAMINATED VENEER LUMBER (LVL)

ALL BEAMS SHALL BE MANUFACTURED WITH LAMINATED VENEER LUMBER AND WATERPROOF ADHESIVES.

SIZE, MANUFACTURER & SERIES OF ALL LVL MEMBERS SHALL BE AS MANUFACTURED BY RED-BUILT, INC AND SHOWN ON DRAWINGS.
Fb = 2600 PSI, Fv = 285 PSI, & E = 1,900,000 PSI MINIMUM.

ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ENGINEER OR ARCHITECT OF RECORD.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1704 OF IBC AND THE OWNER OR LANDLORD SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1704. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED 2015 IBC SECTIONS/LOCATIONS:

1. SOILS - SECTION 1704.7 PER TABLE 1704.7.
2. CONCRETE - SECTION 1704.4 PER TABLE 1704.4.
3. STEEL - SECTION 1704.3 PER TABLE 1704.3.
4. MASONRY - SECTION 1704.5 PER TABLE 1704.5.1.
5. WOOD - SECTION 1704.6.

VENEER TIE REQUIREMENTS:

PROVIDE VENEER TIES W/ WIRE SIZE (W2.8 OR 3/16"ø) SPACED 16" O.C. VERTICALLY AND 24" HORIZONTALLY. ADDITIONAL TIES ALONG ALL OPENINGS GREATER THAN 16" ARE REQUIRED TO BE LOCATED WITHIN 12" OF OPENING AND SPACED 24" O.C. MAX. AROUND OPENING PERIMETER. (DUR-O-WALL DA700 WITH DA 210 OR EQUAL). PROVIDE A CONTINUOUS WIRE SIZE (W2.8 OR 3/16"ø) SPACED 16" O.C. VERTICALLY WITHIN VENEER MORTAR JOINT TO ENGAGE VENEER TIES. (DUR-O-WALL DA8706 AND DA700QT WITH DA210 OR EQUAL)

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03/08/2021	COMBINED PROTO RELEASE

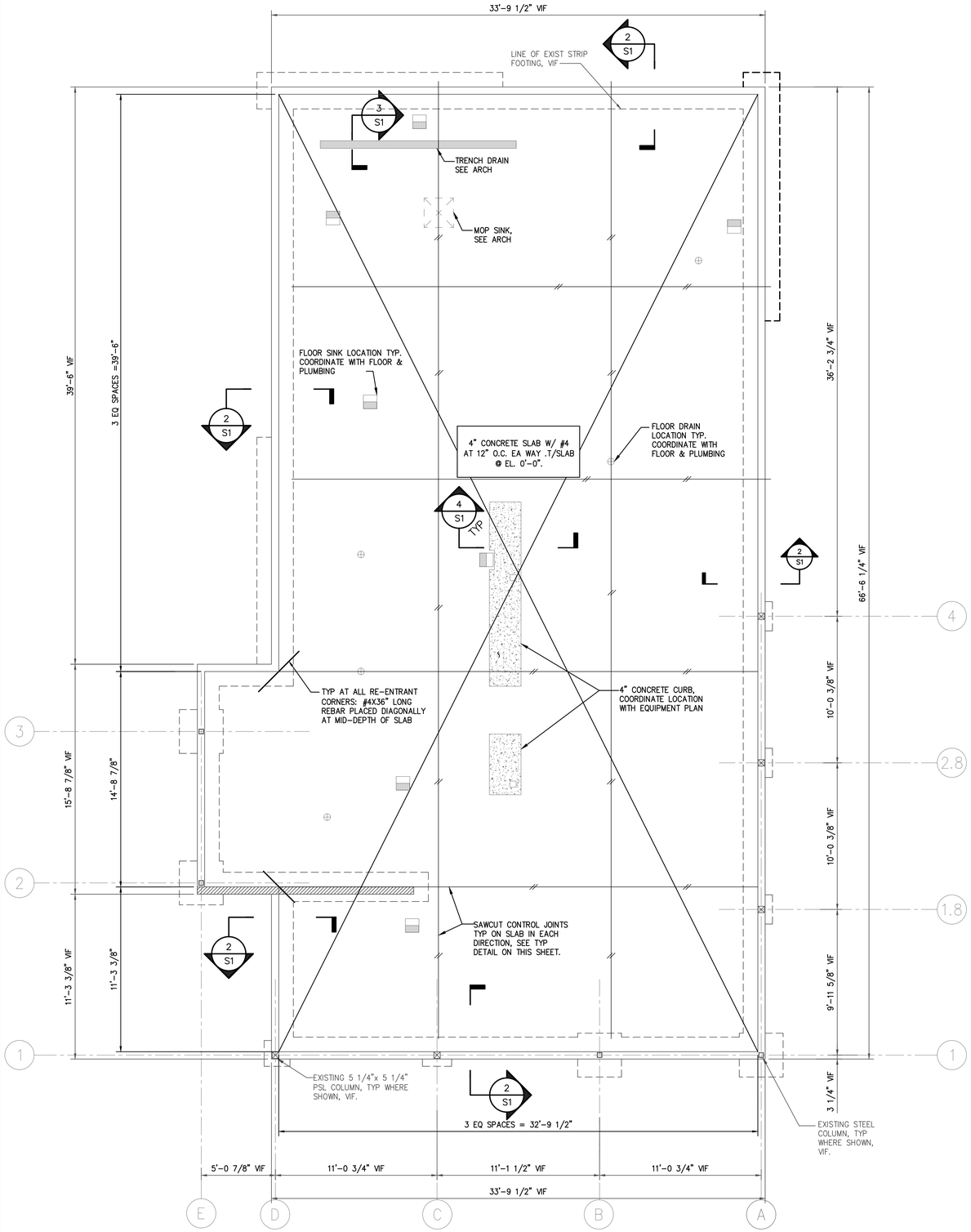
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Drawn: SP
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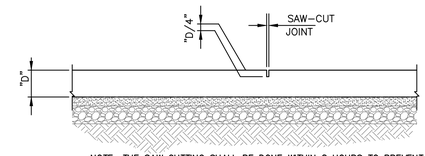
Project No.: CMG5134

Contents:
STRUCTURAL GENERAL NOTES

S000

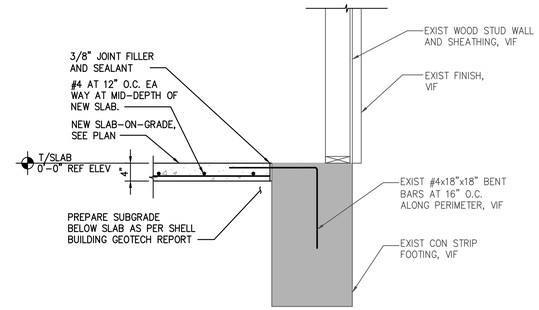


SLAB ON GRADE PLAN
1/4"=1'-0"

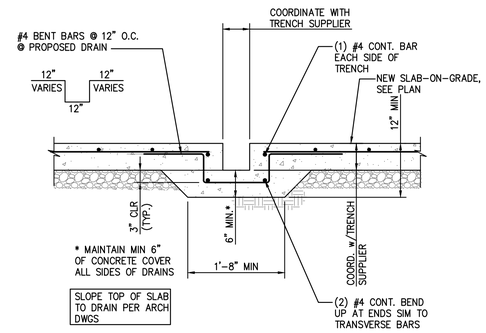


NOTE: THE SAW CUTTING SHALL BE DONE WITHIN 8 HOURS TO PREVENT UNCONTROLLED CRACKING OF THE SLAB. WHEN THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIPPING, SPALLING OR TEARING

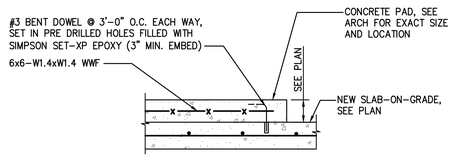
1 TYP. CONTROL JOINT
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



3 TYP TRENCH DRAIN DETAIL
3/4" = 1'-0"



4 SECTION AT CONCRETE PAD
3/4" = 1'-0"

GENERAL STRUCTURAL NOTES

1. GOVERNING CODE: 2018 INTERNATIONAL BUILDING CODE.
2. LOADS:
   A. FLOOR LIVE LOAD – 100 PSF
3. FIELD VERIFY ALL DIMENSIONS PRIOR TO FINAL DETAILING AND FABRICATION. IF ANY EXIST. CONDITION IS NOT AS SHOWN, CONTACT A/E BEFORE PROCEEDING WITH WORK.
4. EXISTING STRUCTURE IS ASSUMED TO BE IN GOOD CONDITION. NOTIFY STRUCTURAL ENGINEER IF ANY STRUCTURAL MEMBERS ARE FOUND TO BE DAMAGED IN ANY WAY BEFORE PROCEEDING WITH ANY WORK ON DAMAGED MEMBER.
5. CONTRACTOR SHALL SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED TO INSTALL NEW WORK. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE EXISTING BUILDING DURING CONSTRUCTION.
6. SPECIAL INSPECTIONS SERVICES SHALL BE PROVIDED BY A QUALIFIED AGENCY ON ALL ITEMS REQUIRED BY THE LOCAL BUILDING CODE.
7. EXISTING STRUCTURAL INFORMATION HAS BEEN TAKEN FROM STRUCTURAL DRAWINGS AND HAS NOT BEEN VERIFIED IN FIELD. VERIFY ALL EXISTING CONDITIONS THAT AFFECT NEW CONSTRUCTION IN FIELD PRIOR TO BID.

CONSTRUCTION AND SAFETY

1. ERECTOR SHALL PROVIDE TEMPORARY BRACING FOR THE ENTIRE STRUCTURE UNTIL PERMANENT BRACING IS INSTALLED AND FUNCTIONING AS THE DESIGNED UNIT.
2. THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR.
3. THE ERECTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY.

FOUNDATIONS

1. THE FOUNDATION DESIGN OF THIS BUILDING ADDITION WAS BASED ON THE FOLLOWING CRITERIA:
   A. MINIMUM ALLOWABLE SOIL BEARING CAPACITY = 2000 PSF AS RECOMMENDED BY GEO SCIENCE ENGINEERS LLC. IN THEIR REPORT NO 20-DG5337 DATED NOVEMBER, 2020.
2. ALL SLABS ON GRADE SHALL BE POURED ON MINIMUM COMPACTED STRUCTURAL FILL MATERIAL AS NOTED ON GEOTECHNICAL REPORT.

CONCRETE CONSTRUCTION

1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF:
   A. AMERICAN CONCRETE INSTITUTE CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO, ACI 301 (AS MODIFIED IN THE PROJECT MANUAL), ACI 305.1, ACI 315, ACI 318 AND SP-15.
   B. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE".
2. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS: (SUBMIT CONCRETE MIXES FOR APPROVAL IN ACCORDANCE WITH ACI301 BEFORE PLACING ANY CONCRETE)
3. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615, A-616, A-617 GRADE 60.
4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 DELIVERED IN FLAT SHEETS.
5. CONTRACTOR SHALL REVIEW ALL DRAWINGS FOR SIZE AND LOCATION OF EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, OPENINGS, ETC. REQUIRED BY OTHER TRADES. RECONCILE THEIR EXACT SIZES AND LOCATIONS BEFORE PROCEEDING WITH THE WORK. ALL ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE. SECURE THE APPROVAL OF THE STRUCTURAL ENGINEER PRIOR TO PLACING OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
6. COMPLY WITH ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF SPECIAL FINISHES OR TREATMENTS TO EXPOSED CONCRETE.
7. PROVIDE #4x3'-0" AT MID DEPTH PERPENDICULAR TO ANY DISCONTINUOUS CONTROL JOINTS.

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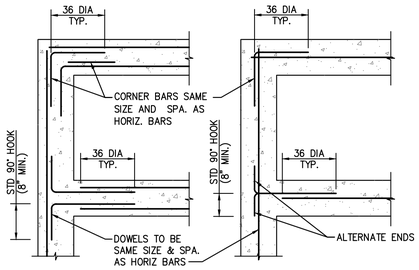
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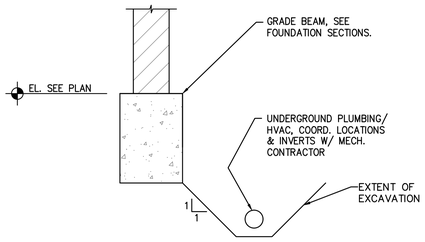
Contents:

SLAB ON GRADE PLAN & DETAILS

S1



TYP. CORNER BARS FOR CONCRETE WALL AND FOOTING CONSTRUCTION



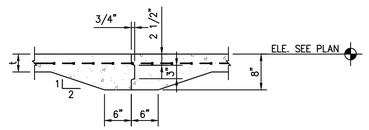
TYPICAL EXCAVATION CLEARANCE REQUIREMENTS

1 SECTION
3/4" = 1'-0"

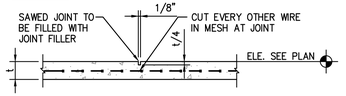
2 SECTION
3/4" = 1'-0"

3 NOT USED

4 NOT USED

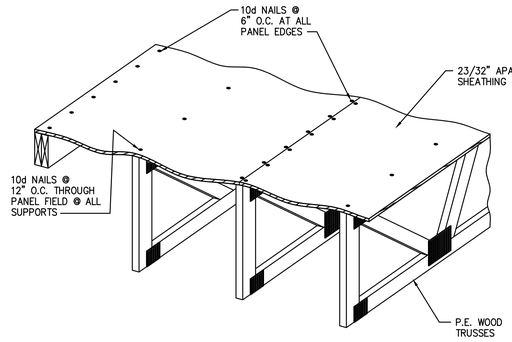


TYPICAL FLOOR CONSTRUCTION JOINT



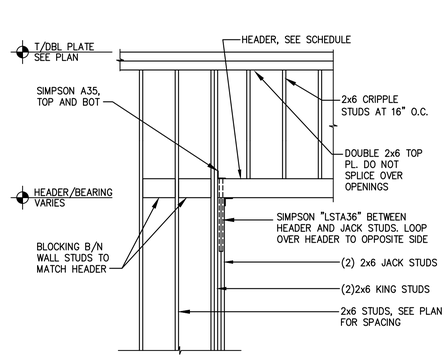
TYPICAL FLOOR CONTROL JOINT

5 SECTION
3/4" = 1'-0"

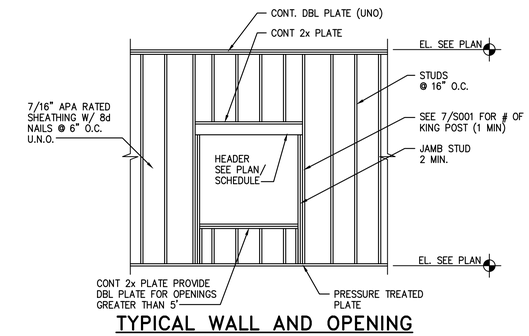


TYPICAL DIAPHRAGM NAILING

6 SECTION
3/4" = 1'-0"

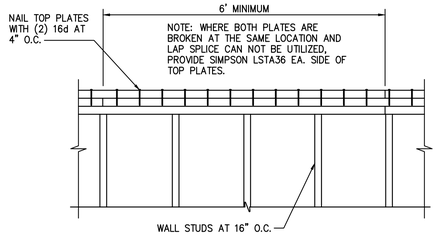


7 SECTION
3/4" = 1'-0"



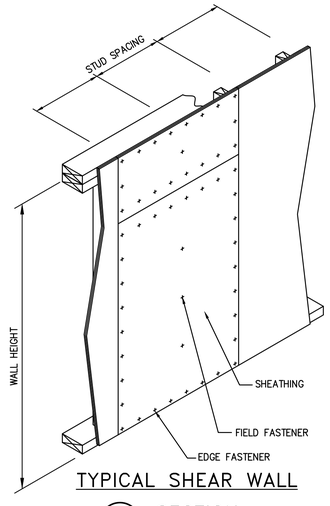
TYPICAL WALL AND OPENING CONSTRUCTION

8 SECTION
3/4" = 1'-0"



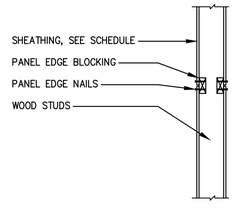
TYPICAL SHEARWALL – TOP PLATE SPLICE

9 SECTION
3/4" = 1'-0"



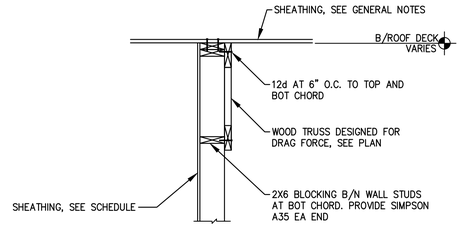
TYPICAL SHEAR WALL

10 SECTION
3/4" = 1'-0"



TYPICAL SHEARWALL – PANEL EDGE BLOCKING

11 SECTION
3/4" = 1'-0"



12 SECTION
3/4" = 1'-0"

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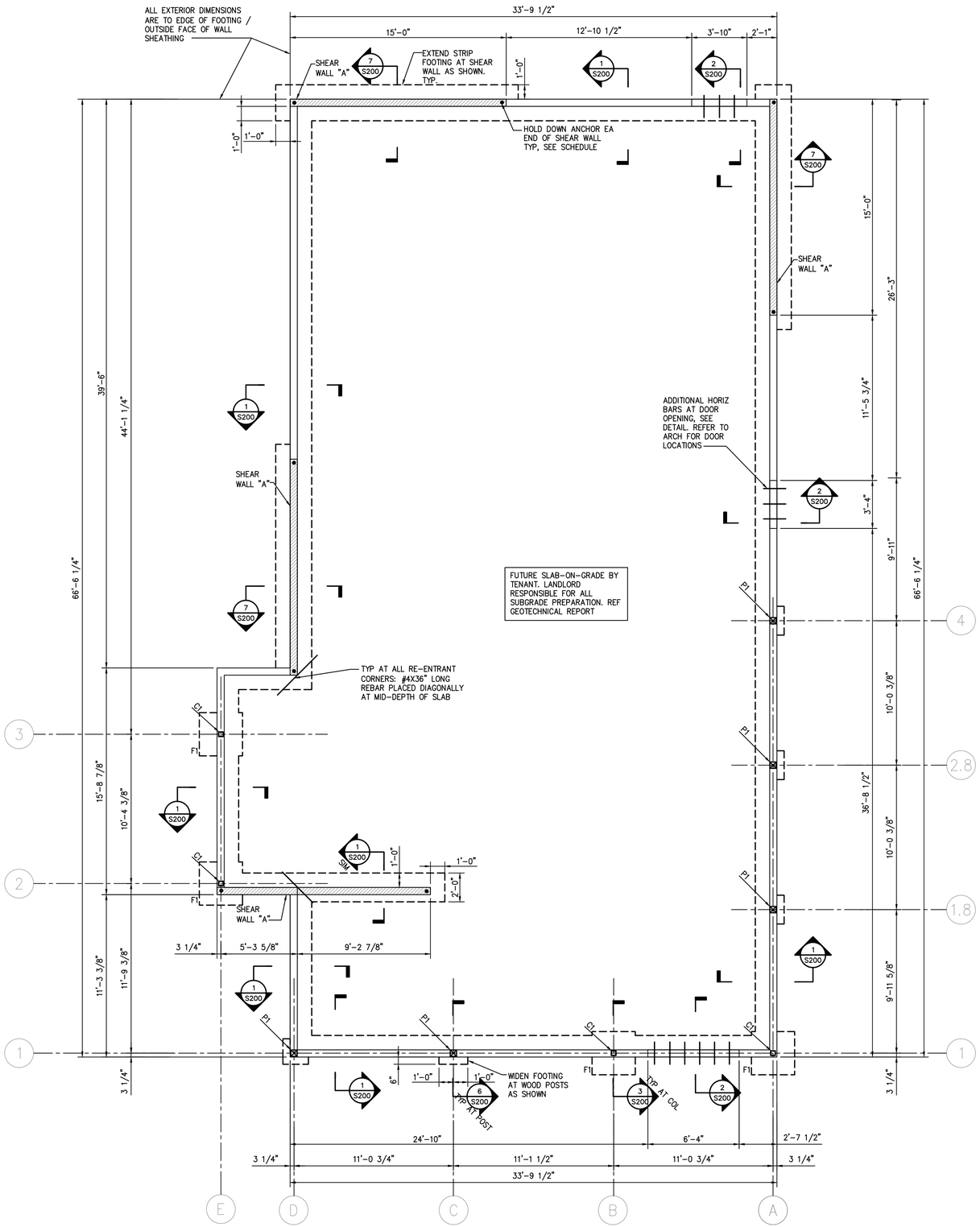
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Project No.: CMG5134

Contents:

TYPICAL DETAILS

S001



FOUNDATION PLAN
1/4"=1'-0"

NOTES:
1. TOP OF MAIN BUILDING SLAB REFERENCE ELEVATION = 100'-0" UNO. SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION
2. BOT OF STRIP FOOTING AT EL. (96'-6") UNLESS NOTED OTHERWISE. FINISH GRADE ADJACENT TO BUILDING SHALL BE A MAXIMUM OF 8" BELOW TOP OF SLAB.
3. SEE SHEET S000 FOR GENERAL STRUCTURAL NOTES.
4. SEE TYPICAL CORNER BAR AND CONTROL JOINT DETAILS ON SHEET S001.
5. MINIMUM REQUIREMENTS FOR SILL PLATE CONNECTION TO FOUNDATION:
   MINIMUM # OF BOLTS = 2 PER PIECE OF SILL
   MAXIMUM DISTANCE FROM END OF SILL TO ANCHOR = 12"
   MINIMUM DISTANCE FROM END OF SILL TO ANCHOR = 4"
6. WHERE SILL PLATES ARE NOT CONTINUOUS AT ALL LOCATIONS EXCEPT SHEAR WALLS, USE SIMPSON "RPS222" TIE FOR NOTCH < 5 1/2", USE SIMPSON "RPS282" FOR NOTCH < 12", W/ 16d NAILS INTO SILL PLATE ENDS. (MAX. SPACING BETWEEN STUDS = 16" O.C.)
7. WHERE SILL PLATES ARE NOT CONTINUOUS AT SHEAR WALLS, CONTACT ENGINEER OF RECORD FOR RESPONSE.
8. "C1" INDICATES STEEL COLUMN: HSS4x4x¼
9. "P1" INDICATES REDLAM POST: 5 ¼"x 5 ¼"

INDICATES FRAME SHEAR WALL. SEE S000 FOR SHEAR WALL INFORMATION

FOOTING SCHEDULE

MARK	SIZE	DEPTH	T/FTG	REINFORCING
F1	3'-0"x3'-0"	2'-10"	-0'-8"	(4)#4 EA WAY TOP & BOT

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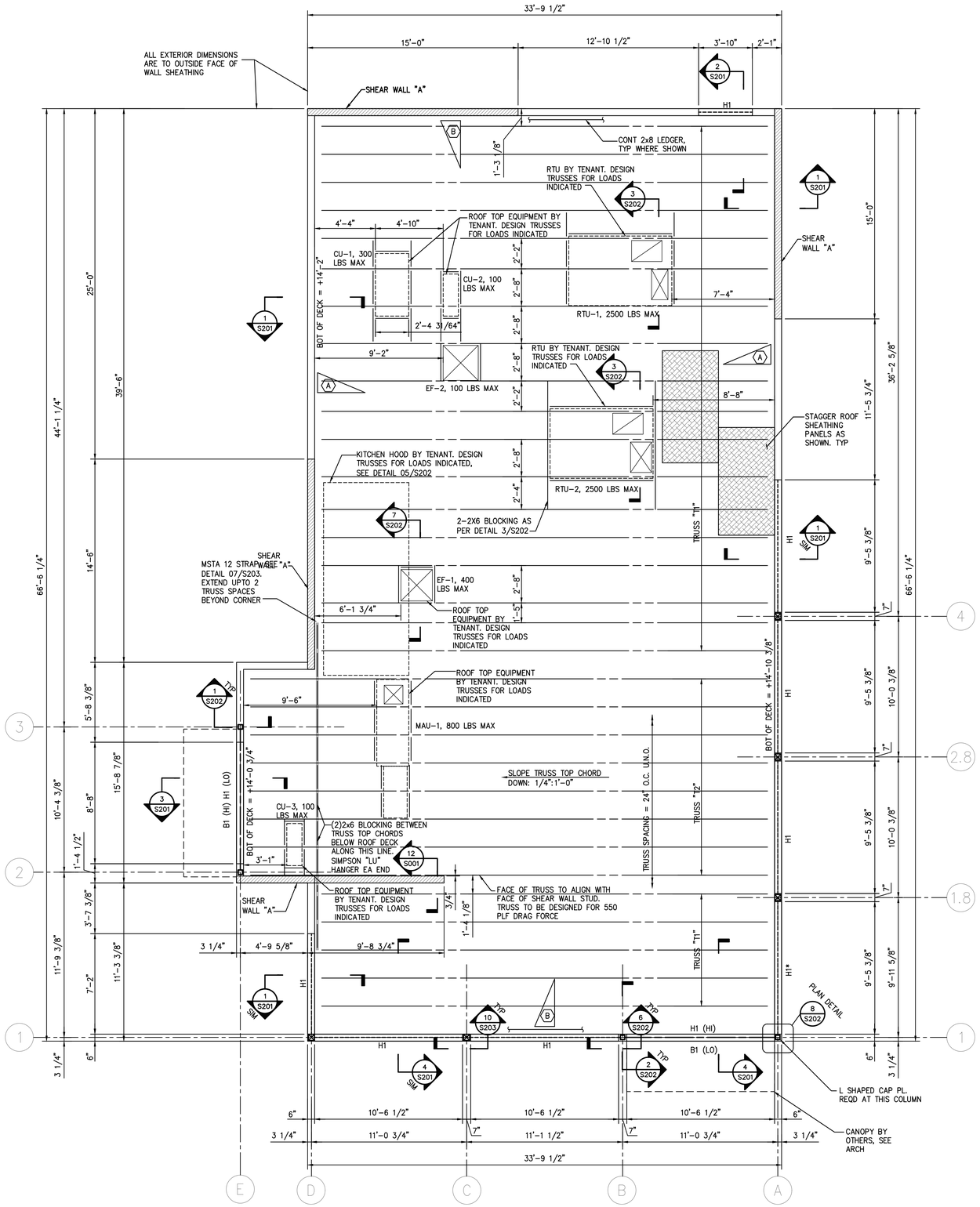
Revisions:

Drawn: SP
Checked: AP

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Contents: FOUNDATION PLAN

S100



ROOF FRAMING PLAN
1/4"=1'-0"

ROOF FRAMING NOTES

1. ROOF DESIGN LOADS: ROOF LIVE LOAD – 20 PSF, ROOF DEAD LOAD – 20 PSF (NON–UPLIFT) AND 12 PSF (UPLIFT)
2. TRUSS BOT CHORD BEARING ELEVATION = 111'–10" U.N.O. SLOPE TOP CHORD AS INDICATED ON PLAN. BOT OF DECK ELEVATIONS AS NOTED ON PLAN.
3. WOOD TRUSS DESIGN BY OTHERS. SEE TRUSS SCHEDULE AND GENERAL NOTES ON S000 FOR PRE–ENGINEERED WOOD TRUSS REQUIREMENTS
4. REFERENCES: GENERAL STRUCTURAL NOTES – S000; FOUNDATION PLAN AND ADDITIONAL DIMENSIONS S100, HEADER SCHEDULE ON THIS SHEET. SHEAR WALL SCHEDULE S000 AND TRUSS SCHEDULE ON S000.
5. ⟍——⟋INDICATES DECK BEARING LEDGER, SEE DETAILS
6. ORIENTED STRAND BOARD AT ROOF AND WALL SHEATHING:

- OSB SHALL BE IN ACCORDANCE WITH THE AMERICAN PLYWOOD ASSOCIATION (APA) SPECIFICATIONS.
- OSB DECKING SHALL BE CONTINUOUS OVER TWO OR MORE SPANS WITH GRAIN OF FACE PLIES ACROSS SUPPORTS.
- ATTACH OSB SHEATHING AT 6 INCHES ON CENTER AT EDGES AND 12 INCHES ON CENTER ON INTERMEDIATE SUPPORTS, LEAVING SPACES BETWEEN PANELS AS RECOMMENDED BY THE APA. SEE SHEAR WALL SCHEDULE FOR ATTACHMENT AT SHEAR WALLS
- FASTENING SHALL BE IN ACCORDANCE WITH "FASTENING SCHEDULE" PER THE INTERNATIONAL BUILDING CODE.
- "B1" INDICATES STEEL BEAM : HSS 6x6x3/8

INDICATES FRAME SHEAR WALL. SEE S000 FOR SHEAR WALL INFORMATION

HEADER SCHEDULE

MARK	MEMBER	BEARING DETAIL	REMARKS
H1	5 1/4" x 9 1/2" LVL	TYPICAL DETAIL SEE 7/S001	
H1*	3 1/2" x 9 1/2" LVL	TYPICAL DETAIL SEE 7/S001	SEE DETAIL 9/S202

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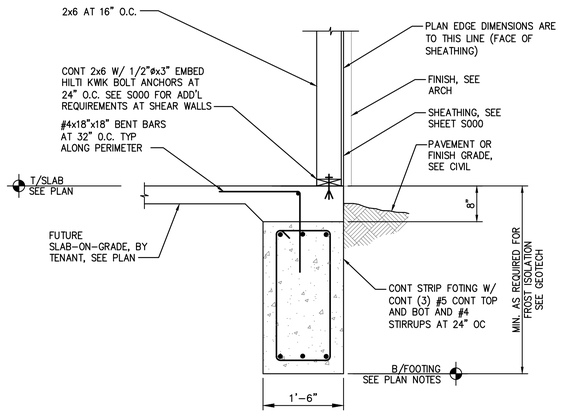
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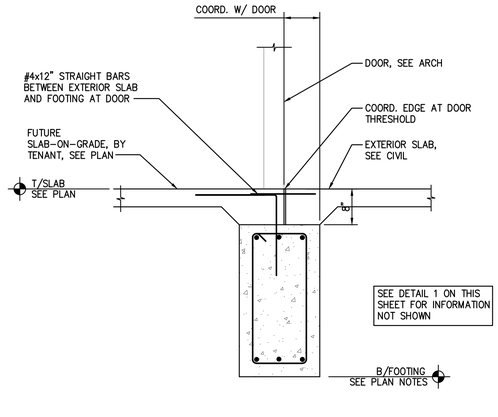
Project No.
CMG5134

Contents:
ROOF FRAMING PLAN

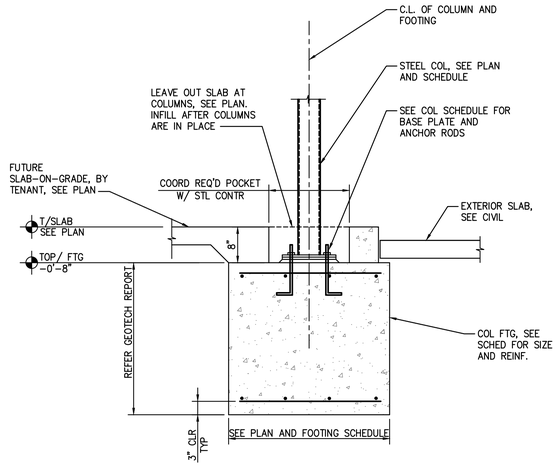
S110



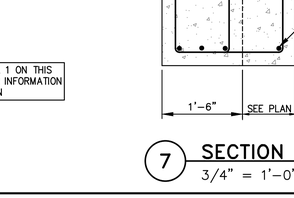
1 SECTION
3/4" = 1'-0"



2 SECTION AT DOOR
3/4" = 1'-0"



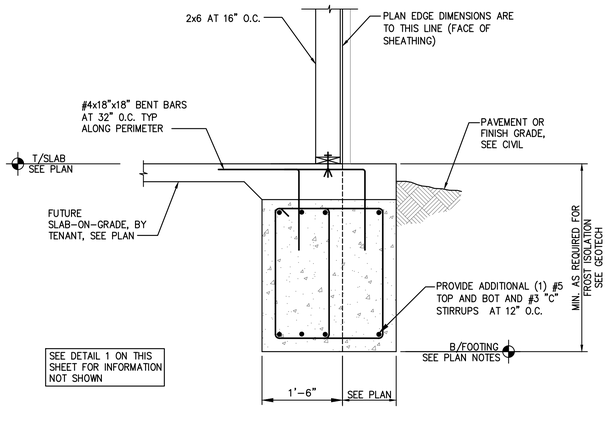
3 EXTERIOR COL DETAIL
3/4" = 1'-0"



4 TYP BASE PLATE DETAIL
3/4" = 1'-0"

5 TYP EQUIPMENT PAD DETAIL
3/4" = 1'-0"

6 SECTION
3/4" = 1'-0"



7 SECTION AT SHEAR WALL
3/4" = 1'-0"

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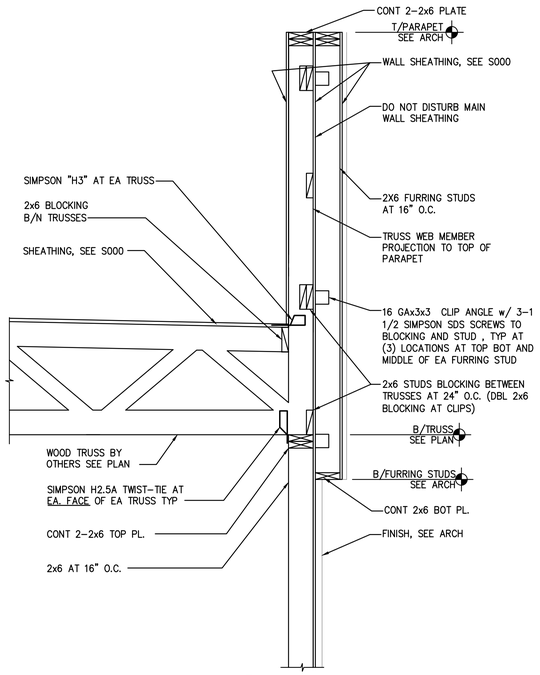
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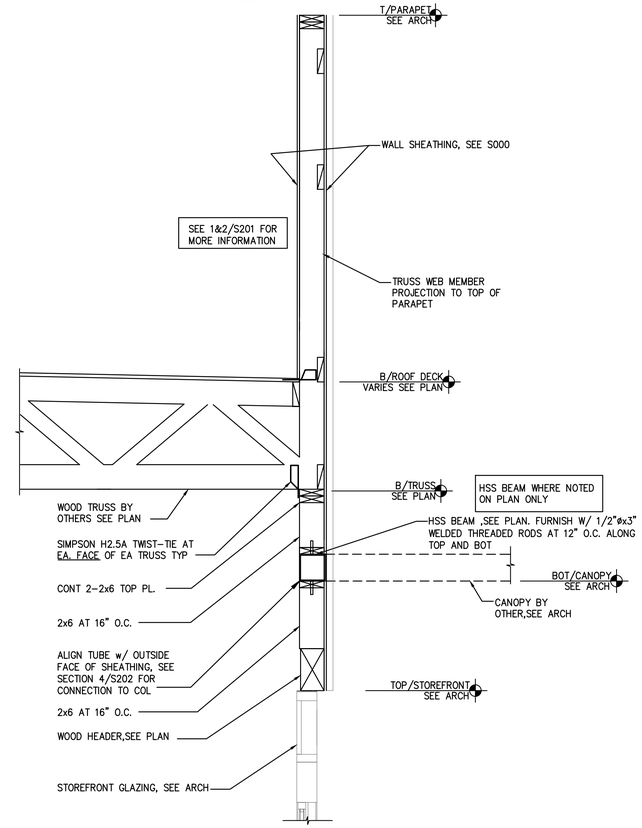
Project No.: CMG5134

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FOUNDATION DETAILS

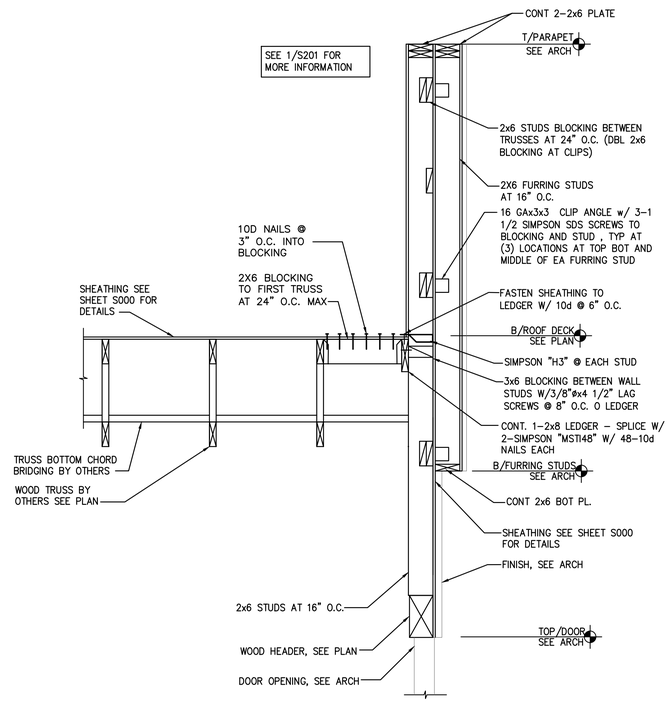
S200



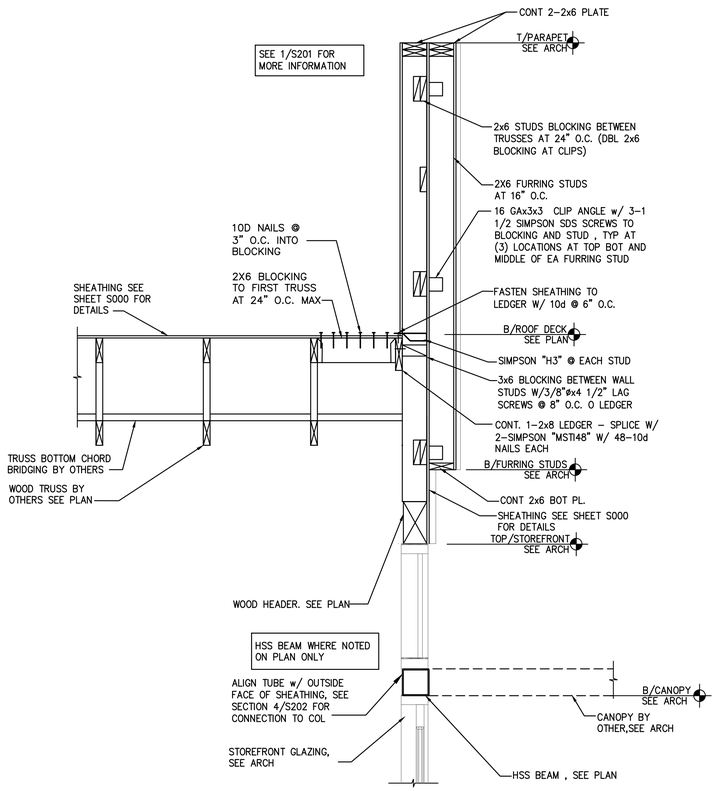
1 SECTION
3/4"=1'-0"



3 SECTION
3/4"=1'-0"



2 SECTION
3/4"=1'-0"



4 SECTION
3/4"=1'-0"

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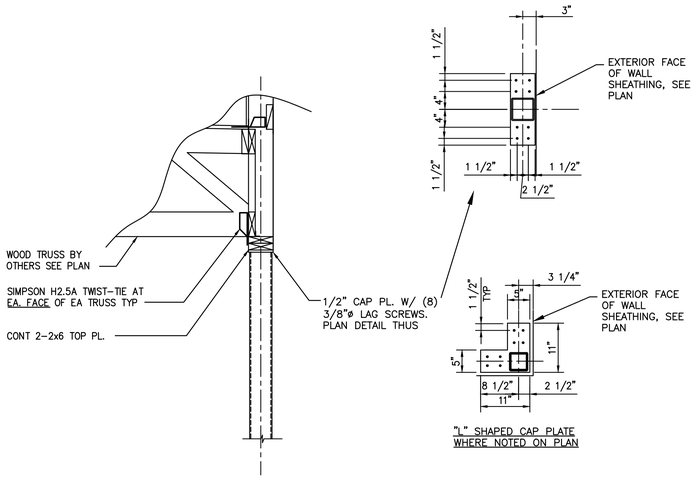
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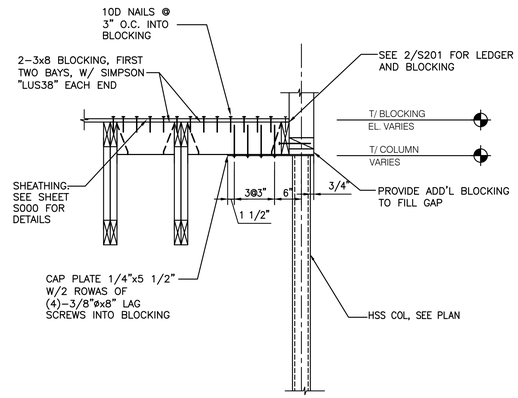
Project No.
CMG5134

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FRAMING DETAILS

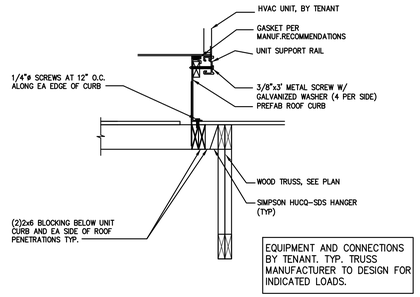
S201



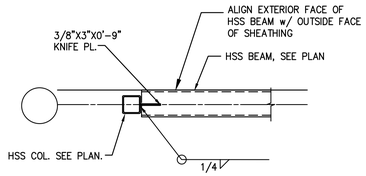
1 SECTION
3/4"=1'-0"



2 SECTION
3/4"=1'-0"



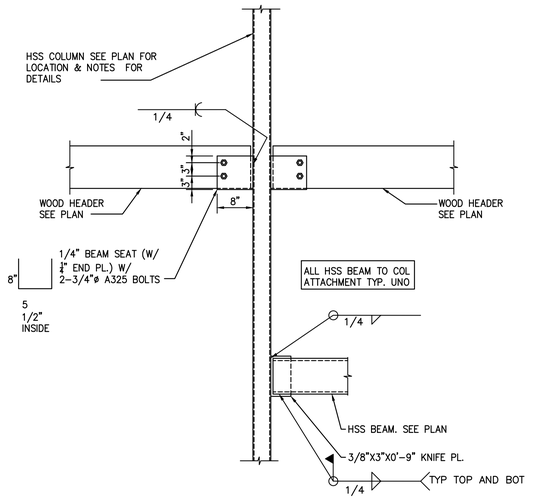
3 TYP ROOF TOP EQUIP. ANCHORAGE
N.T.S.



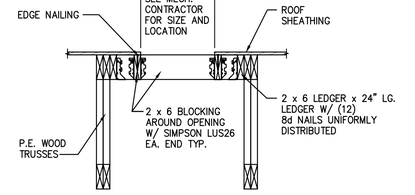
4 PLAN DETAIL
3/4"=1'-0"

5 VENT HOOD SECTION
N.T.S.

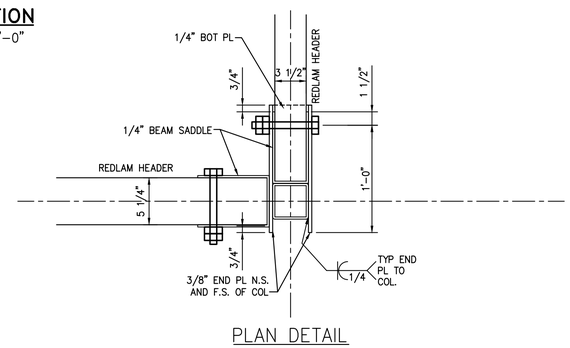
EQUIPMENT AND CONNECTIONS BY TENANT. TYP. TRUSS MANUFACTURER TO DESIGN FOR INDICATED LOADS.



6 SECTION
3/4"=1'-0"



7 TYP ROOF PENETRATION DETAIL
3/4"=1'-0"



8 SECTION
1 1/2"=1'-0"

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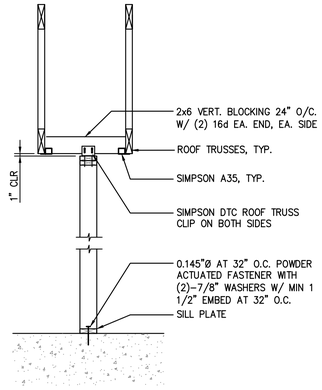
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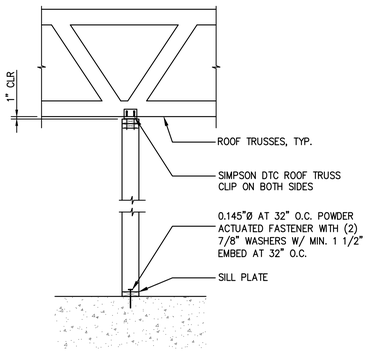
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FRAMING DETAILS

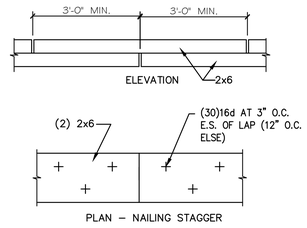
S202



1 WALL SUPPORT PARALLEL TO TRUSS
3/4"=1'-0"

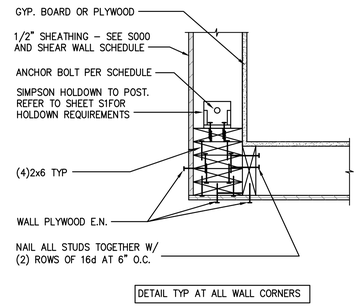


2 WALL SUPPORT PERPENDICULAR TO TRUSS
3/4"=1'-0"



TYPICAL - ALL DOUBLE PLATE CONDITIONS - U.N.O

3 PLATE SPLICE DETAIL
3/4"=1'-0"



DETAIL TYP AT ALL WALL CORNERS

4 HOLD-DOWN PLAN DETAIL AT CORNER
3/4"=1'-0"

DETAIL TYP AT BASE OF ALL TRIMMERS/KING STUDS AT HEADER BEARING

5 HOLD-DOWN PLAN DETAIL AT END
3/4"=1'-0"

NOTE:
HANGERS SHALL BE "SIMPSON" STANDARD "U" AT ROOF. DBL. JOIST OR RAFTERS SHALL BE JOINED TOGETHER AS FOLLOWS:

1. 10" OR LESS NOM. DEPTH - 16d AT 12" O.C. STAGGERED
2. MORE THAN 10" - (2)16d AT 12" O.C.

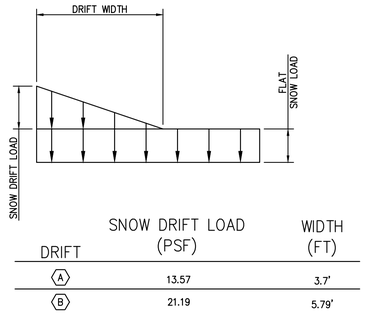
6 TYP PLAN DETAIL AT ROOF OPENING
NTS

7 STRAP ATTACHMENT DETAIL
NTS

8 ROOF DECK BLOCKING DETAIL
3/4"=1'-0"

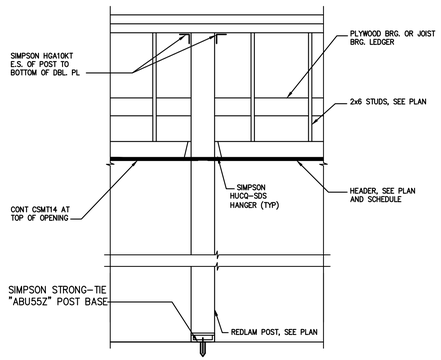
MEMBER	NAILING:
1. JOIST TO SILL OR GIRDER, TOENAIL	(3-8d)
2. BRIDGING TO JOIST, TOENAIL EACH END	(2-8d)
3. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL EXCEPTION:	(16d AT16" O.C.)
4. SOLE PLATE TO JOIST OR BLOCKING, AT BRACED W. PANELS	(3-16d PER 16")
5. TOP PLATE TO STUD, END NAIL	(2-16d)
6. STUD TO SOLE PLATE	(2-16d END NAIL)
7. DOUBLE STUDS, FACE NAIL	(16d AT 12", O.C.)
8. DOUBLE TOP PLATES, TYPICAL FACE NAIL	(16d AT 13" O.C.)
9. DOUBLE TOP PLATES, LAP SPLICE	SEE 15-S4.1
10. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	(3-8d)
11. RIM JOIST TO TOP PLATE, TOENAIL	(8d AT 6" O.C.)
12. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	(2-16D)
13. CONTINUOUS HEADER, TWO PIECES	(16d AT 8" O.C. TOP & BOTTOM)
14. CEILING JOISTS TO PLATE, TOENAIL	(3-8d)
15. CONTINUOUS HEADER TO STUD, TOENAIL	(4-8d)
16. CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL	(3-16d)
17. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3-16d)
18. RAFTER TO PLATE, TOENAIL	(3-8d)
19. 1" (25MM) BRACE TO EACH STUD AND PLATE, FACE NAIL	(2-8d)
20. 1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	(2-8d)
21. WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL	(3-8d)
22. BUILT-UP CORNER STUDS	(16d AT 12" O.C.)

- NAILING SCHEDULE
NTS



DRIFT	SNOW DRIFT LOAD (PSF)	WIDTH (FT)
A	13.57	3.7'
B	21.19	5.79'

9 SNOW DRIFT SCHEDULE
NTS



10 INTERMEDIATE POST DETAIL
3/4"=1'-0"

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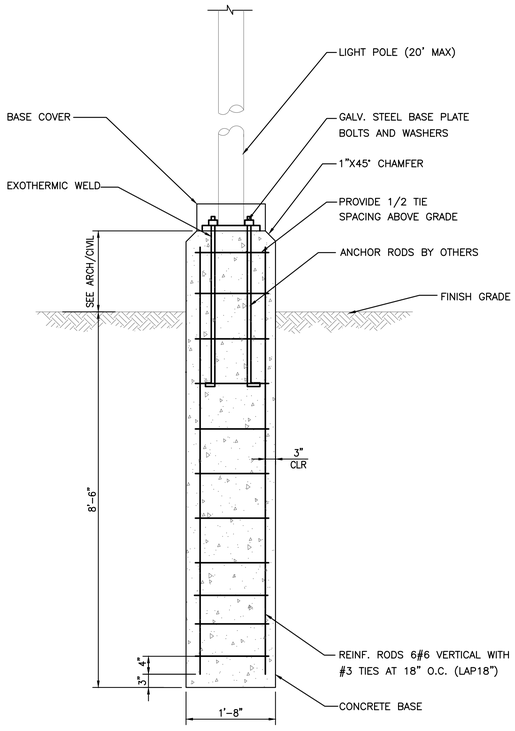
Revisions:

Drawn: SP
Checked: AP

Project No.: CMG5134

Contents:
FRAMING DETAILS

S203



1 FOUNDATION FOR LIGHT POLE
3/4"=1'-0"

- SEE SHEET S000 FOR FOUNDATION, CONCRETE AND STRUCTURAL STEEL GENERAL NOTES
- DESIGN CRITERIA:
  - AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, FIFTH EDITION, 2009
- FOUNDATION DESIGN PARAMETERS:
  - MAXIMUM LIGHT POLE BASE REACTIONS:
  - BASE MOMENT = 16,845 lbs-ft
  - BASE SHEAR = 978 lbs
- 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
- THIS FOUNDATION DESIGN SHALL NOT BE USED IN LOCATIONS WHICH ARE CLOSER THAN 8ft FROM A RETAINING WALL.
- THIS FOUNDATION DESIGN SHALL NOT BE USED AT LOCATIONS WHERE THE GROUND SLOPE EXCEEDS 4 INCHES PER FOOT
- DETAILS AND STRUCTURAL MEMBERS NOT SHOWN DESIGNED BY OTHERS

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Contents:
SITE
FOUNDATION
DETAILS

S204

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
- A. SUBMITTALS: PRODUCT DATA AND SHOP DRAWINGS.
- B. COMPLY WITH ASHRAE 15.
- C. EER: EQUAL TO OR GREATER THAN PRESCRIBED BY THE ENERGY CODE ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
- D. WARRANTIES: SUBMIT A WRITTEN WARRANTY, SIGNED BY THE MANUFACTURER, AGREEING TO THE REPAIR OR REPLACEMENT OF COMPONENTS THAT FAIL WITHIN 5 YEARS OF SUBSTANTIAL COMPLETION.

PART 2 – PRODUCTS
2.1 PACKAGED UNITS, 5 TO 20 TONS
- A. FACTORY ASSEMBLED AND TESTED, CONSISTING OF COMPRESSORS, CONDENSERS, EVAPORATOR COILS, CONDENSER AND EVAPORATOR FANS, REFRIGERATION AND TEMPERATURE CONTROLS, FILTERS, AND DAMPERS.
  1. REFER TO ROOFTOP HEATING/COOLING UNIT SCHEDULE ON DRAWING M600 FOR CAPACITIES, AND MANUFACTURERS.
  2. EVAPORATOR FANS: BELT OR DIRECT DRIVEN, FORWARD CURVED CENTRIFUGAL.
  3. EXHAUST/RELIEF FANS: DIRECT DRIVE, FORWARD CURVED CENTRIFUGAL OR PROPELLER.
  4. CONDENSER FANS: DIRECT DRIVE PROPELLER.
  5. REFRIGERANT COILS: ALUMINUM FINS AND COPPER COIL.
  6. COMPRESSORS: SERVICEABLE HERMETIC OR FULLY HERMETIC, WITH SAFETY CONTROLS, HOT GAS BYPASS, AND TIMED OFF CONTROLS.
  7. HEAT EXCHANGERS: GAS FIRED, WITH GAS CONTROLS, ELECTRONIC IGNITION, HIGH LIMIT CUTOUT, AND FORCED DRAFT PROVING SWITCH.
  8. ECONOMIZER CONTROLS (COMPARATIVE ENTHALPY, 100% CAPACITY).
  9. SMOKE DETECTORS: PHOTOELECTRIC IN SUPPLY AND/OR RETURN AS CALLED FOR IN SCHEDULE ON SHEET M600.
  10. OPERATING CONTROLS: TWO STAGE HEATING AND TWO STAGE COOLING ON UNITS 7-1/2 TONS AND OVER.
  11. ROOF CURB.
  12. CONTROL WIRING FROM T-STAT TO ROOFTOP UNIT: SHALL BE 18GA / 7 CONDUCTOR, RATED FOR PLENUM APPLICATIONS.
  13. CONTROL WIRING FROM T-STAT TO REMOTE SENSOR: SHALL BE A SEPARATE 18GA / 2 CONDUCTOR SHIELDED, RATED FOR PLENUM APPLICATIONS.

PART 3 – EXECUTION
3.1 INSTALLATION
- A. INSTALL UNITS LEVEL AND PLUMB AND FIRMLY ANCHORED.
- B. CONNECT GAS PIPING TO BURNER WITH PIPE SAME SIZE AS GAS TRAIN INLET, AND PROVIDE UNION WITH SUFFICIENT CLEARANCE FOR BURNER REMOVAL AND SERVICE.
- C. INSTALL DUCTS TO TERMINATION IN ROOF MOUNTING FRAMES. TERMINATE DUCTS THROUGH ROOF STRUCTURE.
- D. CONNECT UNITS TO WIRING SYSTEMS AND TO GROUND.

END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
- A. SUBMITTALS: PRODUCT DATA FOR FIRE AND SMOKE DAMPERS.
- B. COMPLY WITH NFPA 90A FOR SYSTEMS SERVING SPACES MORE THAN 25,000 CU. FT. IN VOLUME OR BUILDING TYPES II, IV, AND V CONSTRUCTION MORE THAN 3 STORIES IN HEIGHT.
- C. COMPLY WITH NFPA 90B FOR SYSTEMS SERVING SPACES IN 1 OR 2 FAMILY DWELLINGS OR SERVING SPACES LESS THAN 25,000 CU. FT..
- D. COMPLY WITH NFPA 96, "VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS," FOR KITCHEN HOOD DUCTS.
- E. COMPLY WITH UL 181 AND UL 181A FOR DUCTS AND CLOSURES.
- F. TESTING, ADJUSTING, AND BALANCING AGENCY QUALIFICATIONS: AABC CERTIFIED (TO BE FURNISHED BY OWNER).

PART 2 – PRODUCTS
2.1 DUCTS
- A. SPIRAL DUCT: SPIRAL LOCK SEAM, WITHOUT INSULATION, G90 GALVANIZED FINISH, ASTM A-653/924
  1. BASIS OF DESIGN MANUFACTURERS: LINDAB SPIROSAFE, ALTERNATES TO THE BASIS OF DESIGN MUST BE SUBMITTED FOR REVIEW.
  2. FITTINGS: FACTORY PRODUCED STANDING SEAM CONSTRUCTION WITH INTERNAL SEALING. FITTINGS WITH A MAJOR AXIS OF 36" OR SMALLER SHALL BE 20 GAUGE. FITTINGS WITH A MAJOR AXIS OF 37"-48" SHALL BE 18 GAUGE.
- B. GALVANIZED STEEL SHEET: FORMING STEEL, ASTM A 653/653M, G90 COATING DESIGNATION.
- C. DUCT LINER: ASTM C 1071, TYPE II, WITH AN AIRSTREAM SURFACE COATED WITH A TEMPERATURE RESISTANT COATING. THICKNESS: 1-1/2 INCH. R-VALUE : 8.
  1. ADHESIVE: ASTM C 916, TYPE I.
  2. MECHANICAL FASTENERS: GALVANIZED STEEL PIN, LENGTH AS REQUIRED TO PENETRATE LINER PLUS A 1/8 INCH PROJECTION MAXIMUM INTO THE AIRSTREAM.
- D. JOINT AND SEAM TAPE: COMPLY WITH UL 181A.
- E. JOINT AND SEAM SEALANT: COMPLY WITH UL 181A.
- F. RECTANGULAR METAL DUCT FABRICATION: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARD" FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, TIE ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS.

2.2 ACCESSORIES
- A. VOLUME-CONTROL DAMPERS: FACTORY FABRICATED VOLUME CONTROL DAMPERS, COMPLETE WITH REQUIRED HARDWARE AND ACCESSORIES. SINGLE BLADE AND MULTIPLE OPPOSED BLADE, STANDARD LEAKAGE RATING, AND SUITABLE FOR HORIZONTAL OR VERTICAL APPLICATIONS.
- B. FIRE DAMPERS: FACTORY-FABRICATED FIRE DAMPERS, COMPLETE WITH REQUIRED HARDWARE AND ACCESSORIES. UL LABELED ACCORDING TO UL 555, "FIRE DAMPERS".
- C. FLEXIBLE CONNECTORS: FLAME RETARDANT OR NONCOMBUSTIBLE FABRICS, COATINGS, AND ADHESIVES COMPLYING WITH UL 181, CLASS 1.
- D. FLEXIBLE DUCTS: FACTORY FABRICATED, INSULATED, ROUND DUCT, WITH AN OUTER JACKET ENCLOSING 2 INCH THICK, GLASS FIBER INSULATION, R-VALUE: 6.0, AROUND A CONTINUOUS INNER LINER.

PART 3 – EXECUTION
3.1 INSTALLATION
- A. DUCT SYSTEM PRESSURE CLASS: CONSTRUCT AND INSTALL EACH DUCT SYSTEM WITH 2 INCH POSITIVE AND NEGATIVE DUCT PRESSURE CLASSIFICATIONS.
- B. CONCEAL DUCTS FROM VIEW IN FINISHED AND OCCUPIED SPACES. EXCEPT WHERE NOTED AS EXPOSED.
- C. AVOID PASSING THROUGH ELECTRICAL EQUIPMENT SPACES AND ENCLOSURES.
- D. SUPPORT AND CONNECT METAL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARD".
- E. INSTALL DUCT ACCESSORIES ACCORDING TO APPLICABLE PORTIONS OF DETAILS OF CONSTRUCTION AS SHOWN IN SMACNA STANDARDS.
- F. INSTALL LINER AND/OR INSULATION ON DUCTWORK PER THE MATERIAL SCHEDULE ON SHEET M010.
- G. INSTALL VOLUME CONTROL DAMPERS IN LINED DUCT WITH METHODS TO AVOID DAMAGE TO LINER AND TO AVOID EROSION OF DUCT LINER.
- H. INSTALL FIRE AND SMOKE DAMPERS ACCORDING TO MANUFACTURER'S UL APPROVED WRITTEN INSTRUCTIONS.
- I. INSTALL FUSIBLE LINKS IN FIRE DAMPERS.
- J. PROVIDE SADDLE TAPS AT TEES FOR EXPOSED DUCTWORK.

3.2 TESTING, ADJUSTING, AND BALANCING
- A. THE OWNER WILL SUPPLY AN INDEPENDENT BALANCE AGENT TO TO BALANCE AND ADJUST THE HVAC INSTALLATION. THE BALANCE AGENT WILL BE RESPONSIBLE FOR ANY PULLEY OR BELT CHANGES REQUIRED.
- B. THE GC IS TO HAVE TRAINED STAFFED AVAILABLE DURING THE BALANCING TO CORRECT ISSUES NOTED BY THE BALANCE AGENT.
- C. THE BALANCE AGENT IS TO BALANCE AIRFLOW WITHIN DISTRIBUTION SYSTEMS, INCLUDING SUBMAINS, BRANCHES, AND TERMINALS TO INDICATED QUANTITIES +/- 10%. THE HOOD EXHAUST SYSTEM SHALL BE BALANCED TO A TOLERANCE OF: -0+10% AND THE MAKE-UP AIR SYSTEM TO A TOLERANCE OF -10+0%.
- D. THE BALANCE AGENT IS TO SUPPLY A COPY OF THE BALANCE REPORT TO THE OWNER, ENGINEER AND GENERAL CONTRACTOR FOR REVIEW.

END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1 – GENERAL
1.1 SECTION REQUIREMENTS
- A. SUBMITTALS: NONE.

PART 2 – PRODUCTS
2.1 OUTLETS AND INLETS
- A. DIFFUSERS:
  1. REFER TO GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE FOR EQUIPMENT SCHEDULE
  2. MANUFACTURER: AS SCHEDULED (NO SUBSTITUTIONS)
  3. MATERIAL: AS SCHEDULED.
  4. FINISH: AS SCHEDULED.
  5. MOUNTING: AS SCHEDULED.
- B. WALL AND CEILING REGISTERS:
  1. REFER TO GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE FOR EQUIPMENT SCHEDULE
  2. MANUFACTURER: AS SCHEDULED (NO SUBSTITUTIONS)
  3. MATERIAL: AS SCHEDULED.
  4. FINISH: AS SCHEDULED.
  5. MOUNTING: COUNTERSUNK SCREW.
- C. WALL AND CEILING GRILLES:
  1. REFER TO GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE FOR EQUIPMENT SCHEDULE
  2. MANUFACTURER: AS SCHEDULED (NO SUBSTITUTIONS)
  3. MATERIAL: AS SCHEDULED.
  4. FINISH: AS SCHEDULED.
  5. MOUNTING: COUNTERSUNK SCREW OR LAY IN DEPENDING LOCATION.

PART 3 - EXECUTION
3.1 INSTALLATION
- A. COORDINATE LOCATION AND INSTALLATION WITH DUCT INSTALLATION AND INSTALLATION OF OTHER CEILING AND WALL MOUNTED ITEMS.
- B. LOCATE CEILING DIFFUSERS, REGISTERS, AND GRILLES, AS INDICATED ON THE ARCHITECTURAL "REFLECTED CEILING PLANS." UNLESS OTHERWISE INDICATED, LOCATE UNITS IN CENTER OF ACOUSTICAL CEILING PANELS.

END OF SECTION 15855

HVAC GENERAL NOTES

A. GENRAL NOTES APPLY TO HVAC SHEETS.

B. WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE SHEET G000 FOR THE PREVAILING CODES.

C. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.

D. COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.

E. DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

F. DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.

G. PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.

H. COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

I. UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.

J. REPLACE AIR FILTERS WITH NEW, CLEAN MERV 8 AIR FILTERS AT TURNOVER.

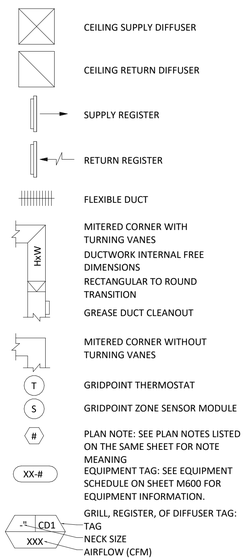
K. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

L. PROVIDE LABELING CALLED FOR IN THE HVAC DRAWINGS USING ENGRAVED PHENOLIC PLATES.
M. PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.

HVAC ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
CD	CONDENSATE
CU	CONDENSING UNIT
EF	EXHAUST FAN
EXT'G	EXISTING
HD	HOOD
MUA	MAKEUP AIR UNIT
OPD	OPPOSED BLADE DAMPER
RG	RETURN GRILLE
RTU	ROOFTOP UNIT
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
TDC	TENANT DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

HVAC SYMBOLS



CEILING SUPPLY DIFFUSER
CEILING RETURN DIFFUSER
SUPPLY REGISTER
RETURN REGISTER
FLEXIBLE DUCT
MITERED CORNER WITH TURNING VANES
DUCTWORK INTERNAL FREE DIMENSIONS
RECTANGULAR TO ROUND TRANSITION
GREASE DUCT CLEANOUT
MITERED CORNER WITHOUT TURNING VANES
GRIDPOINT THERMOSTAT
GRIDPOINT ZONE SENSOR MODULE
PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION.
GRILL, REGISTER, OF DIFFUSER TAG:
TAG
NECK SIZE
AIRFLOW (CFM)

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REVISION 1 - 7/1/24

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Issue Record:

5/30/2024	COMBINE PERMIT SET

Revisions:
1

Drawn: JW
Checked: JV

Project No.
CMG5134

Contents:
MECHANICAL SHELL SPECIFICATIONS

M001

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. SUBMITTALS: PRODUCT DATA AND SHOP DRAWINGS.
B. COMPLY WITH ASHRAE 15.
C. EER: EQUAL TO OR GREATER THAN PRESCRIBED BY THE ENERGY CODE ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
D. WARRANTIES: SUBMIT A WRITTEN WARRANTY, SIGNED BY THE MANUFACTURER, AGREEING TO THE REPAIR OR REPLACEMENT OF COMPONENTS THAT FAIL WITHIN 5 YEARS OF SUBSTANTIAL COMPLETION.

PART 2 – PRODUCTS

2.1 PACKAGED UNITS, 5 TO 20 TONS

A. FACTORY ASSEMBLED AND TESTED, CONSISTING OF COMPRESSORS, CONDENSERS, EVAPORATOR COILS, CONDENSER AND EVAPORATOR FANS, REFRIGERATION AND TEMPERATURE CONTROLS, FILTERS, AND DAMPERS.
   1. REFER TO ROOFTOP HEATING/COOLING UNIT SCHEDULE ON DRAWING M600 FOR CAPACITIES, AND MANUFACTURERS.
   2. EVAPORATOR FANS: BELT OR DIRECT DRIVEN, FORWARD CURVED CENTRIFUGAL.
   3. EXHAUST/RELIEF FANS: DIRECT DRIVE, FORWARD CURVED CENTRIFUGAL OR PROPELLER.
   4. CONDENSER FANS: DIRECT DRIVE PROPELLER.
   5. REFRIGERANT COILS: ALUMINUM FINS AND COPPER COIL.
   6. COMPRESSORS: SERVICEABLE HERMETIC OR FULLY HERMETIC, WITH SAFETY CONTROLS, HOT GAS BYPASS, AND TIMED OFF CONTROLS.
   7. HEAT EXCHANGERS: GAS FIRED, WITH GAS CONTROLS, ELECTRONIC IGNITION, HIGH LIMIT CUTOUT, AND FORCED DRAFT PROVING SWITCH.
   8. ECONOMIZER CONTROLS (COMPARATIVE ENTHALPY, 100% CAPACITY).
   9. SMOKE DETECTORS: PHOTOELECTRIC IN SUPPLY AND/OR RETURN AS CALLED FOR IN SCHEDULE ON SHEET M600.
   10. OPERATING CONTROLS: TWO STAGE HEATING AND TWO STAGE COOLING ON UNITS 7-1/2 TONS AND OVER.
   11. ROOF CURB.
   12. CONTROL WIRING FROM T-STAT TO ROOFTOP UNIT: SHALL BE 18GA / 7 CONDUCTOR, RATED FOR PLENUM APPLICATIONS.
   13. CONTROL WIRING FROM T-STAT TO REMOTE SENSOR: SHALL BE A SEPARATE 18GA / 2 CONDUCTOR SHIELDED, RATED FOR PLENUM APPLICATIONS.

PART 3 – EXECUTION

3.1 INSTALLATION

A. INSTALL UNITS LEVEL AND PLUMB AND FIRMLY ANCHORED.
B. CONNECT GAS PIPING TO BURNER WITH PIPE SAME SIZE AS GAS TRAIN INLET, AND PROVIDE UNION WITH SUFFICIENT CLEARANCE FOR BURNER REMOVAL AND SERVICE.
C. INSTALL DUCTS TO TERMINATION IN ROOF MOUNTING FRAMES. TERMINATE DUCTS THROUGH ROOF STRUCTURE.
D. CONNECT UNITS TO WIRING SYSTEMS AND TO GROUND.

END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. SUBMITTALS: PRODUCT DATA FOR FIRE AND SMOKE DAMPERS.
B. COMPLY WITH NFPA 90A FOR SYSTEMS SERVING SPACES MORE THAN 25,000 CU. FT. IN VOLUME OR BUILDING TYPES II, IV, AND V CONSTRUCTION MORE THAN 3 STORIES IN HEIGHT.
C. COMPLY WITH NFPA 90B FOR SYSTEMS SERVING SPACES IN 1 OR 2 FAMILY DWELLINGS OR SERVING SPACES LESS THAN 25,000 CU. FT..
D. COMPLY WITH NFPA 96, "VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS," FOR KITCHEN HOOD DUCTS.
E. COMPLY WITH UL 181 AND UL 181A FOR DUCTS AND CLOSURES.
F. TESTING, ADJUSTING, AND BALANCING AGENCY QUALIFICATIONS: AABC CERTIFIED (TO BE FURNISHED BY OWNER).

PART 2 – PRODUCTS

2.1 DUCTS

A. SPIRAL DUCT: SPIRAL LOCK SEAM, WITHOUT INSULATION, G90 GALVANIZED FINISH, ASTM A-653/924
   1. BASIS OF DESIGN MANUFACTURERS: LINDAB SPIROSAFE, ALTERNATES TO THE BASIS OF DESIGN MUST BE SUBMITTED FOR REVIEW.
   2. FITTINGS: FACTORY PRODUCED STANDING SEAM CONSTRUCTION WITH INTERNAL SEALING. FITTINGS WITH A MAJOR AXIS OF 36" OR SMALLER SHALL BE 20 GAUGE. FITTINGS WITH A MAJOR AXIS OF 37"-48" SHALL BE 18 GAUGE.

B. GALVANIZED STEEL SHEET: FORMING STEEL, ASTM A 653/653M, G90 COATING DESIGNATION.
C. DUCT LINER: ASTM C 1071, TYPE II, WITH AN AIRSTREAM SURFACE COATED WITH A TEMPERATURE RESISTANT COATING. THICKNESS: 1-1/2 INCH. R-VALUE : 8.
   1. ADHESIVE: ASTM C 916, TYPE I.
   2. MECHANICAL FASTENERS: GALVANIZED STEEL PIN, LENGTH AS REQUIRED TO PENETRATE LINER PLUS A 1/8 INCH PROJECTION MAXIMUM INTO THE AIRSTREAM.

D. JOINT AND SEAM TAPE: COMPLY WITH UL 181A.
E. JOINT AND SEAM SEALANT: COMPLY WITH UL 181A.
F. RECTANGULAR METAL DUCT FABRICATION: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARD" FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, TIE ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS.

2.2 ACCESSORIES

A. VOLUME-CONTROL DAMPERS: FACTORY FABRICATED VOLUME CONTROL DAMPERS, COMPLETE WITH REQUIRED HARDWARE AND ACCESSORIES. SINGLE BLADE AND MULTIPLE OPPOSED BLADE, STANDARD LEAKAGE RATING, AND SUITABLE FOR HORIZONTAL OR VERTICAL APPLICATIONS.
B. FIRE DAMPERS: FACTORY-FABRICATED FIRE DAMPERS, COMPLETE WITH REQUIRED HARDWARE AND ACCESSORIES. UL LABELED ACCORDING TO UL 555, "FIRE DAMPERS".
C. FLEXIBLE CONNECTORS: FLAME RETARDANT OR NONCOMBUSTIBLE FABRICS, COATINGS, AND ADHESIVES COMPLYING WITH UL 181, CLASS 1.
D. FLEXIBLE DUCTS: FACTORY FABRICATED, INSULATED, ROUND DUCT, WITH AN OUTER JACKET ENCLOSING 2 INCH THICK, GLASS FIBER INSULATION, R-VALUE: 6.0, AROUND A CONTINUOUS INNER LINER.

PART 3 – EXECUTION

3.1 INSTALLATION

A. DUCT SYSTEM PRESSURE CLASS: CONSTRUCT AND INSTALL EACH DUCT SYSTEM WITH 2 INCH POSITIVE AND NEGATIVE DUCT PRESSURE CLASSIFICATIONS.
B. CONCEAL DUCTS FROM VIEW IN FINISHED AND OCCUPIED SPACES. EXCEPT WHERE NOTED AS EXPOSED.
C. AVOID PASSING THROUGH ELECTRICAL EQUIPMENT SPACES AND ENCLOSURES.
D. SUPPORT AND CONNECT METAL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARD".
E. INSTALL DUCT ACCESSORIES ACCORDING TO APPLICABLE PORTIONS OF DETAILS OF CONSTRUCTION AS SHOWN IN SMACNA STANDARDS.
F. INSTALL LINER AND/OR INSULATION ON DUCTWORK PER THE MATERIAL SCHEDULE ON SHEET M010.
G. INSTALL VOLUME CONTROL DAMPERS IN LINED DUCT WITH METHODS TO AVOID DAMAGE TO LINER AND TO AVOID EROSION OF DUCT LINER.
H. INSTALL FIRE AND SMOKE DAMPERS ACCORDING TO MANUFACTURER'S UL APPROVED WRITTEN INSTRUCTIONS.
I. INSTALL FUSIBLE LINKS IN FIRE DAMPERS.
J. PROVIDE SADDLE TAPS AT TEES FOR EXPOSED DUCTWORK.

3.2 TESTING, ADJUSTING, AND BALANCING

A. THE OWNER WILL SUPPLY AN INDEPENDENT BALANCE AGENT TO TO BALANCE AND ADJUST THE HVAC INSTALLATION. THE BALANCE AGENT WILL BE RESPONSIBLE FOR ANY PULLEY OR BELT CHANGES REQUIRED.
B. THE GC IS TO HAVE TRAINED STAFFED AVAILABLE DURING THE BALANCING TO CORRECT ISSUES NOTED BY THE BALANCE AGENT.
C. THE BALANCE AGENT IS TO BALANCE AIRFLOW WITHIN DISTRIBUTION SYSTEMS, INCLUDING SUBMAINS, BRANCHES, AND TERMINALS TO INDICATED QUANTITIES +/- 10%. THE HOOD EXHAUST SYSTEM SHALL BE BALANCED TO A TOLERANCE OF: -0+10% AND THE MAKE-UP AIR SYSTEM TO A TOLERANCE OF -10+0%.
D. THE BALANCE AGENT IS TO SUPPLY A COPY OF THE BALANCE REPORT TO THE OWNER, ENGINEER AND GENERAL CONTRACTOR FOR REVIEW.

END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1 – GENERAL

1.1 SECTION REQUIREMENTS

A. SUBMITTALS: NONE.

PART 2 – PRODUCTS

2.1 OUTLETS AND INLETS

A. DIFFUSERS:
   1. REFER TO GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE FOR EQUIPMENT SCHEDULE
   2. MANUFACTURER: AS SCHEDULED (NO SUBSTITUTIONS)
   3. MATERIAL: AS SCHEDULED.
   4. FINISH: AS SCHEDULED.
   5. MOUNTING: AS SCHEDULED.
B. WALL AND CEILING REGISTERS:
   1. REFER TO GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE FOR EQUIPMENT SCHEDULE
   2. MANUFACTURER: AS SCHEDULED (NO SUBSTITUTIONS)
   3. MATERIAL: AS SCHEDULED.
   4. FINISH: AS SCHEDULED.
   5. MOUNTING: COUNTERSUNK SCREW.
C. WALL AND CEILING GRILLES:
   1. REFER TO GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE FOR EQUIPMENT SCHEDULE
   2. MANUFACTURER: AS SCHEDULED (NO SUBSTITUTIONS)
   3. MATERIAL: AS SCHEDULED.
   4. FINISH: AS SCHEDULED.
   5. MOUNTING: COUNTERSUNK SCREW OR LAY IN DEPENDING LOCATION.

PART 3 - EXECUTION

3.1 INSTALLATION

A. COORDINATE LOCATION AND INSTALLATION WITH DUCT INSTALLATION AND INSTALLATION OF OTHER CEILING AND WALL MOUNTED ITEMS.
B. LOCATE CEILING DIFFUSERS, REGISTERS, AND GRILLES, AS INDICATED ON THE ARCHITECTURAL "REFLECTED CEILING PLANS." UNLESS OTHERWISE INDICATED, LOCATE UNITS IN CENTER OF ACOUSTICAL CEILING PANELS.

END OF SECTION 15855

HVAC GENERAL NOTES

A. GENRAL NOTES APPLY TO HVAC SHEETS.

B. WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE SHEET G000 FOR THE PREVAILING CODES.

C. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.

D. COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.

E. DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

F. DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.

G. PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.

H. COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

I. UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.

J. REPLACE AIR FILTERS WITH NEW, CLEAN MERV 8 AIR FILTERS AT TURNOVER.

K. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

L. INSTALL LABELING CALLED FOR IN THE MECHANICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING).

M. PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.

HVAC MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
DUCT	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED GENERAL EXHAUST	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED GENERAL EXHAUST	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, TYPE I HOOD EXHAUST.	RECT. 16 GA. BLACK IRON W/WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP. (SUBMIT SHOP DRAWINGS FOR FACTORY- MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL.)

HVAC ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
CD	CONDENSATE
CU	CONDENSING UNIT
EF	EXHAUST FAN
EXT'G	EXISTING
HD	HOOD
MUA	MAKEUP AIR UNIT
OPD	OPPOSED BLADE DAMPER
RG	RETURN GRILLE
RTU	ROOFTOP UNIT
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
TDC	TENANT DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

HVAC SYMBOLS

- CEILING SUPPLY DIFFUSER
- CEILING RETURN DIFFUSER
- SUPPLY REGISTER
- RETURN REGISTER
- FLEXIBLE DUCT
- MITERED CORNER WITH TURNING VANES
- DUCTWORK INTERNAL FREE DIMENSIONS (H x W)
- RECTANGULAR TO ROUND TRANSITION
- GREASE DUCT CLEANOUT
- MITERED CORNER WITHOUT TURNING VANES
- GRIDPOINT THERMOSTAT (T)
- GRIDPOINT ZONE SENSOR MODULE (S)
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING (#)
- EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION. (XX-#)
- GRILL, REGISTER, OF DIFFUSER TAG: (CD1 / XXX)
  - TAG
  - NECK SIZE
  - AIRFLOW (CFM)

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REVISION 1 - 7/1/24

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Issue Record:

5/30/2024	COMBINE PERMIT SET

Revisions:

Drawn: JW | Checked: JV

Project No.: CMG5134

Contents:

HVAC SPECIFICATIONS

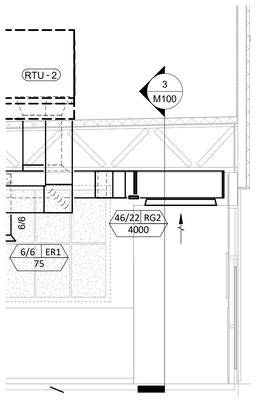
M010

HVAC PLAN NOTES

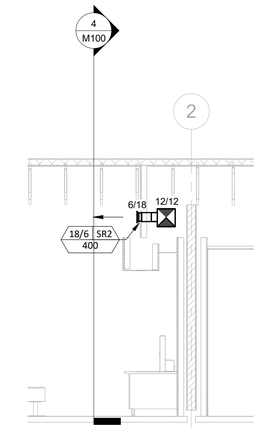
1. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
2. PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
3. PENATRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE REACTION. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.
4. 26/14 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
5. 26/18 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
6. 26/14 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
7. 26/18 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
8. 16/16 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
9. 10/15 DUCTS UP FROM HOOD TO 20/15 DUCT THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
10. 8/6 DUCT UP THROUGH ROOF TO EF-2.
11. 36/10 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3.
12. 8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
13. INSTALL SINGLE-GANG VERTICAL J-BOX FOR GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
14. INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 84" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO RTU-1 THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
15. INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 60" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO RTU-2 THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
16. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO RTU-1 THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
17. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO RTU-2 THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
18. INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 84" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.

HVAC PLAN NOTES

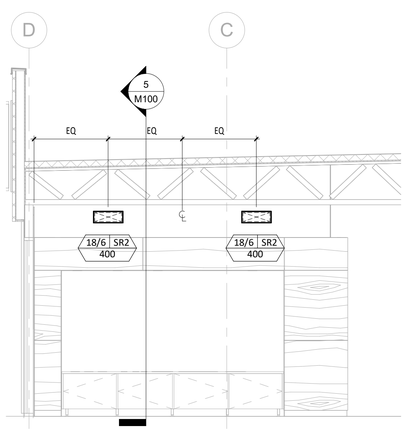
19. INSTALL KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2 AND 4/M700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
20. INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
21. INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
22. INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
23. INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
24. PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.
25. PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
26. INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
27. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER FLUE TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLUE AND COMBUSTION AIR TERMINATIONS.
28. ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.
29. ALL ROOFTOP MECHANICAL EQUIPMENT SHOULD BE SCREENED FROM VIEW. SEE ARCHITECTUAL SHEETS.



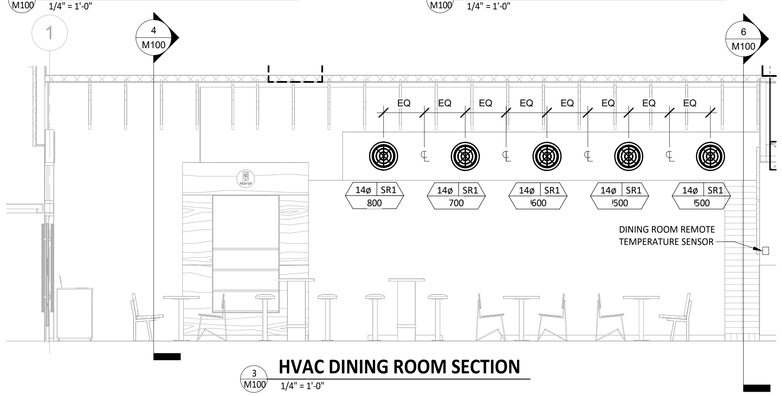
6 M100 **HVAC DINING ROOM RETURN SECITON**
1/4" = 1'-0"



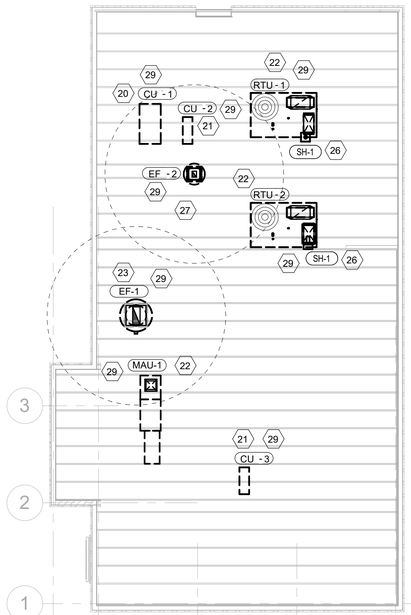
5 M100 **HVAC DINING ROOM SECTION**
1/4" = 1'-0"



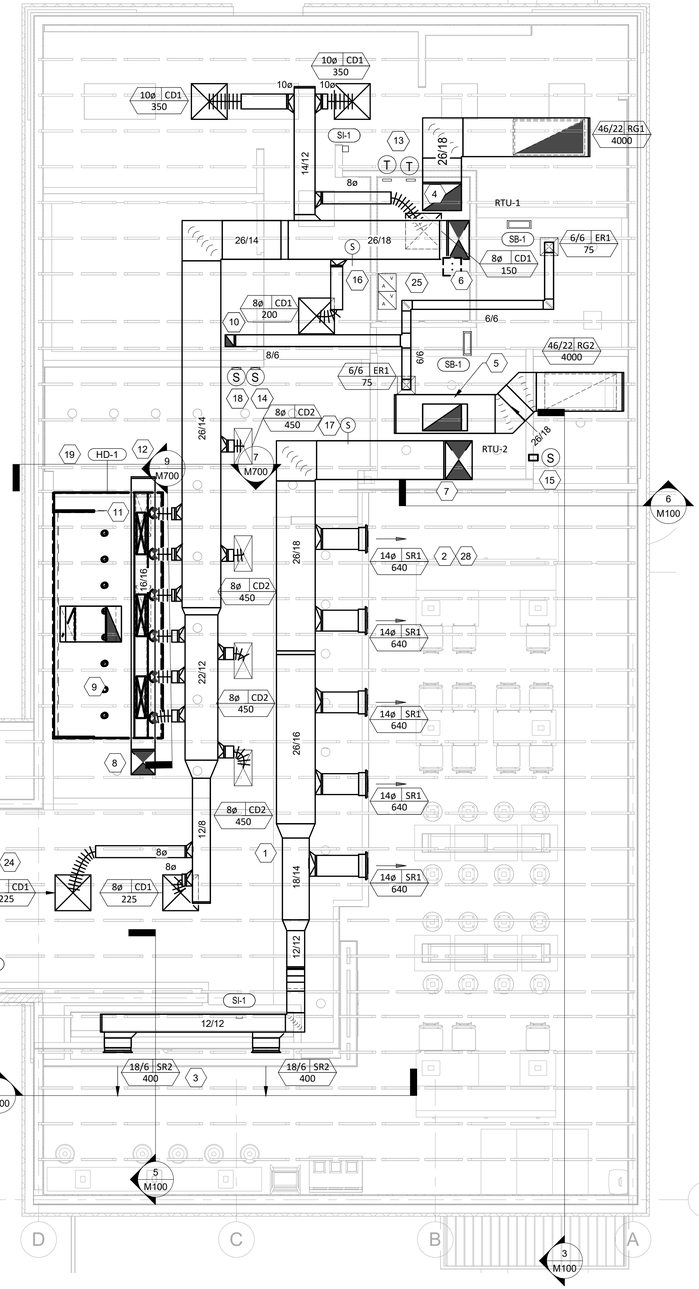
4 M100 **HVAC DINING ROOM SECTION**
1/4" = 1'-0"



3 M100 **HVAC DINING ROOM SECTION**
1/4" = 1'-0"



1 2 M100 **HVAC ROOF PLAN**
1/8" = 1'-0"



1 1 M100 **HVAC FLOOR PLAN**
1/4" = 1'-0"

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Issue Record:
5/30/2024 COMBINE PERMIT SET

Revisions:
1 07/03/24 CITY COMMENTS

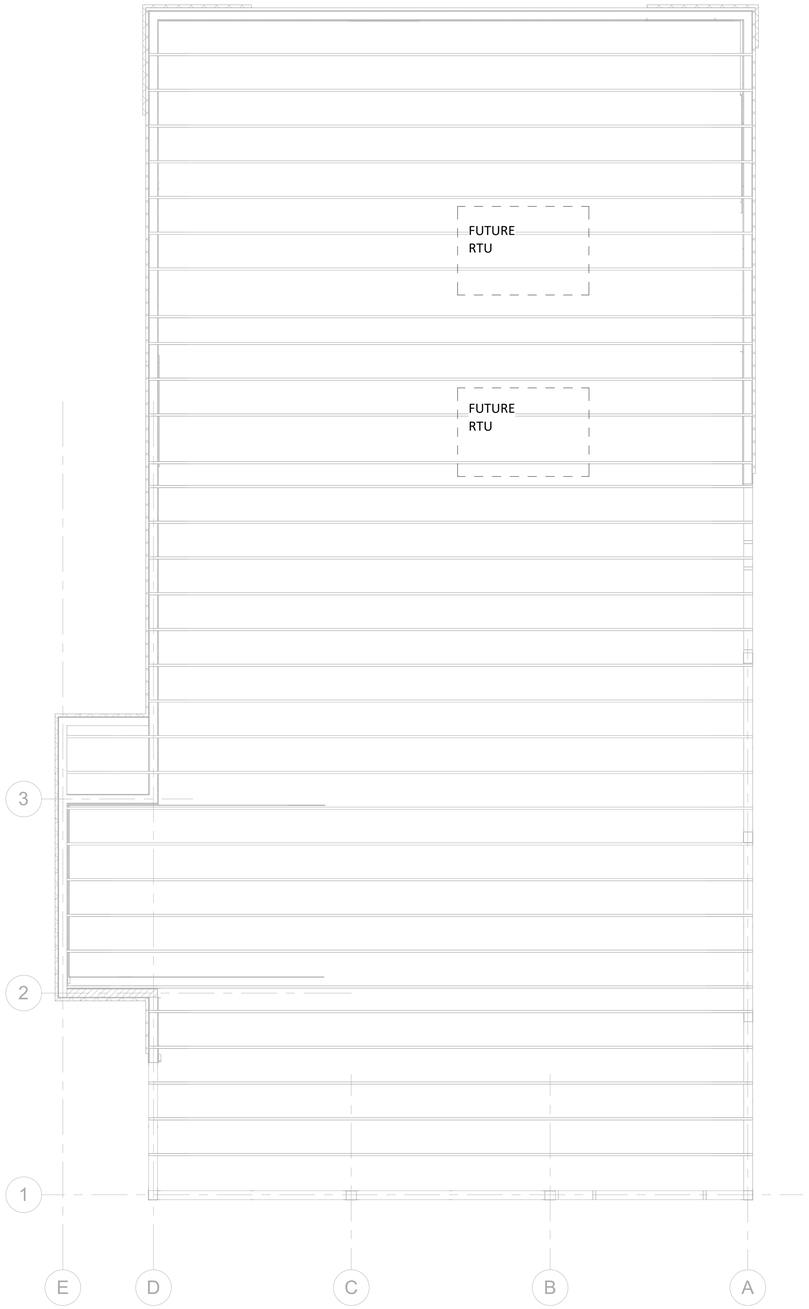
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CMG5134

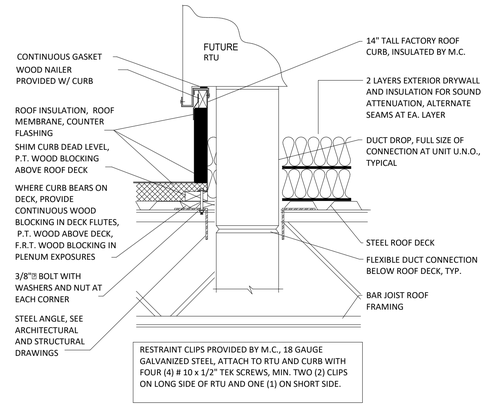
Contents:
HVAC PLAN

M100

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1 M101 **SHELL HVAC PLAN**
1/4" = 1'-0"



2 **RTU CURB DETAIL**
SCALE: 1" = 1'-0"

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Issue Record:

5/30/2024	COMBINE PERMIT SET

Revisions:

Drawn: JW
Checked: JV

Project No.
CMG5134

Contents:
MECHANICAL SHELL PLAN

M101

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SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MANUFACTURER	MODEL	
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SH-1	2	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 6/M700 FOR INSTALLATION INFORMATION.
SI-1	3	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

FAN SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	UPBLAST DU180HFA EXHAUST FAN	2,550 CFM	1.45 in-wg	183 lb	2 hp	208/3/60	HS	GC	CAPTIVE-AIRE	DU180HFA	DIRECT DRIVE DU180HFA UPBLAST EXHAUST FAN FURNISHED WITH WEATHERPROOF DISCONNECT AND VENTED ROOF CURB
EF-2	DOWNBLAST RESTROOM EXHAUST FAN	150 CFM	0.60 in-wg	100 lb	0.18 hp	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	DIRECT DRIVE DOWNBLAST RESTROOM EXHAUST FAN FURNISHED WITH INTEGRAL DISCONNECT, SPEED CONTROL, BACKDRAFT DAMPER, AND CURB

VIROGUARD SCHEDULE

TAG	COUNT	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER
VG-1	1	VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	16" X 16"	CAPTIVE-AIRE DU180HFA	TDC	GC	ENVIROMATIC

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	NUMBER OF		REFRIGERANT		WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
			COMPRESSORS	CIRCUITS	TYPE	CHARGE		MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
CU-1	CONDENSING UNIT - WALK-IN COOLER		1	1	R-404A	10.4 lb	250 lb	15 A	9 A	208/1/60	WCS	GC	RUSSELL DOE	RFO060M4SDAALNT	FURNISHED WITH WALK-IN COOLER
CU-2	REMOTE CONDENSER - LOW CAPACITY ICE MAKER		0	1	R-404A	11.46 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-9F	FURNISHED WITH ICE MAKER
CU-3	REMOTE CONDENSER - SODA MACHINE ICE MAKER		0	1	R-404A	3.86 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-5F	FURNISHED WITH ICE MAKER

MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	HEATING			WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
				INPUT	OUTPUT	EAT		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1,300 CFM	0.50 in-wg	70,942 Btu/h	65,267 Btu/h	21 °F	495 lb	2 hp	208/3/60	HS	GC	CAPTIVE-AIRE	A1-D.250-15D	12.5:1 MAX TURNDOWN. FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM						PERFORATED SUPPLY PLENUMS									NO. OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					DUCT COLLARS						MAU PLENUM				AC PLENUM									
												DUCT COLLARS			DUCT COLLARS								
			AIRFLOW	E.S.P.	NO.	WIDTH	LENGTH	LENGTH	WIDTH	LENGTH	WIDTH	AIRFLOW	NO.	WIDTH	LENGTH	AIRFLOW	NO.	DIAMETER					MANUFACTURER	MODEL	
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600 °F	2,550 CFM	0.96 in-wg	1	10"	24"	13' - 9"	4' - 3"	54"	19"	1,300 CFM	3	6"	2' - 4"	696 CFM	8	8"	8	1,029 lb	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACPSP-F	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH QUARTER END PANELS, VAPORPROOF INCANDESCENT LIGHT FIXTURES, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, ANSUL SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	EER	AIRFLOW			NET COOLING CAPACITY					HEATING CAPACITY			NUMBER OF		REFRIGERANT	WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
									EAT																	
				TOTAL	OA	E.S.P.	TOTAL	SENSIBLE	DB	WB	COND. EAT	INPUT	OUTPUT	EAT	COMPRESSORS	CIRCUITS	TYPE		MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
RTU-1	KITCHEN ROOFTOP UNIT	10 ton	12	4,000 CFM	500 CFM	1.0 in-wg	118,000 Btu/h	91,000 Btu/h	80 °F	67 °F	80 °F	250,000 Btu/h	205,000 Btu/h	65 °F	2	2	R-410A	1,445 lb	60 A	58 A	208/3/60	CMG	GC	CARRIER	48FCFN12	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, HOT GAS REHEAT & UNIT-MOUNTED CONVENIENCE RECEPTACLE
RTU-2	DINING ROOM ROOFTOP UNIT	10 ton	12	4,000 CFM	1,000 CFM	1.0 in-wg	118,000 Btu/h	91,000 Btu/h	80 °F	67 °F	80 °F	250,000 Btu/h	205,000 Btu/h	65 °F	2	2	R-410A	1,445 lb	60 A	58 A	208/3/60	CMG	GC	CARRIER	48FCFN12	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, HOT GAS REHEAT & UNIT-MOUNTED CONVENIENCE RECEPTACLE

AIR BALANCE SCHEDULE

TAG	SUPPLY FLOW	RETURN FLOW	EXHAUST FLOW	SUBTOTAL
EF-1	0 CFM	0 CFM	2,550 CFM	-2,550 CFM
EF-2	0 CFM	0 CFM	150 CFM	-150 CFM
MAU-1	1,300 CFM	0 CFM	0 CFM	1,300 CFM
RTU-1	4,000 CFM	3,500 CFM	0 CFM	500 CFM
RTU-2	4,000 CFM	3,000 CFM	0 CFM	1,000 CFM
NET PRESSURIZATION				100 CFM

AIR TERMINAL SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES
								MANUFACTURER	MODEL	
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD
CD2	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD, REMOVE 4-WAY DEFLECTORS
CD3	PERFORATED CEILING DIFFUSER	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4320A TYPE S	PROVIDE WITH INTEGRAL OBD
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
RG2	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	BLACK	WALL	GC	GC	AIR CONCEPTS	M-AD-SR1	PROVIDE WITH CONCEALED MOUNTING AND FACE-ACCESSIBLE OBD
SR2	ARCHITECTURAL GRILLE	18"x6"	ALUMINUM	BLACK	WALL	GC	GC	AIR CONCEPTS	RGDD-F	PROVIDE WITH CONCEALED MOUNTING AND FACE-ACCESSIBLE OBD

CONTROL FUNCTIONS

A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

ARCHITECT OF RECORD
ROGUE ARCHITECTS
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SEAL



REVISION 1 - 7/1/24

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Issue Record:
5/30/2024 COMBINE PERMIT SET

Revisions:

Drawn: JW
Checked: JV

Project No.
CMG5134

Contents:
MECHANICAL SCHEDULES

M600

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CERTIFICATE OF AUTHORITY NO. F-20080

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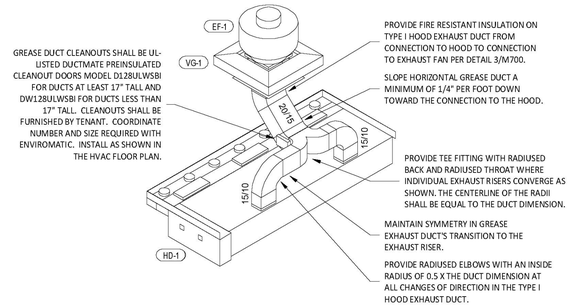
Revisions:

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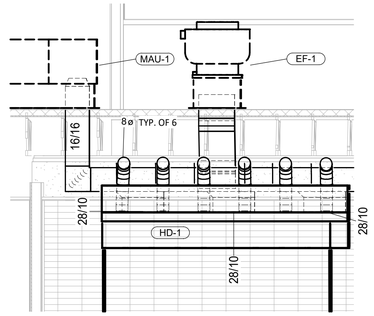
Project No.
CMG5134

Contents:
MECHANICAL DETAILS

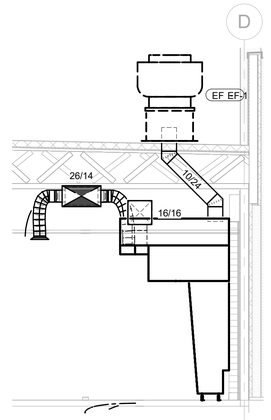
M700



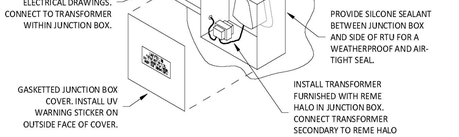
8 M700 **HOOD EXHAUST ISOMETRIC** N.T.S.



9 M700 **HOOD ELEVATION** 1/4" = 1'-0"

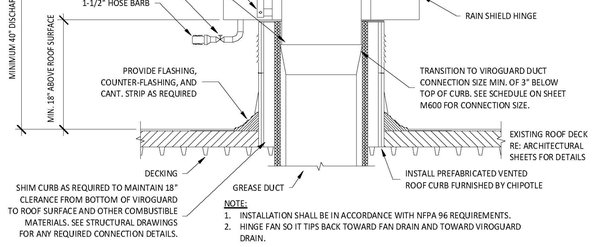


7 M700 **DUCT SECTION AT HOOD** 1/4" = 1'-0"



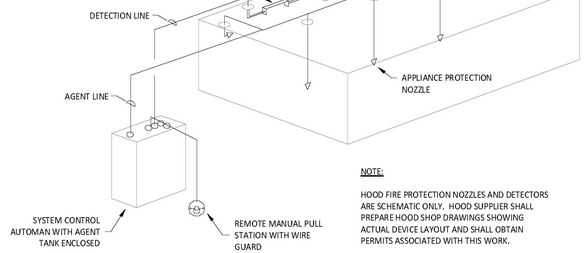
INSTALLATION LOCATION
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:
TRANE: INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.
YORK: INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.

6 M700 **UV AIR PURIFIER INSTALLATION** N.T.S.



NOTE:
1. INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96 REQUIREMENTS.
2. HINGE FAN SO IT TIPS BACK TOWARD FAN DRAIN AND TOWARD VIROGUARD DRAIN.

5 M700 **GREASE EXHAUST FAN** N.T.S.

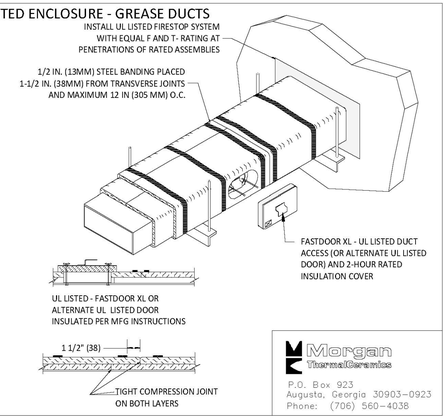


NOTE:
HOOD FIRE PROTECTION NOZZLES AND DETECTORS ARE SCHEMATIC ONLY. HOOD SUPPLIER SHALL PREPARE HOOD SHOP DRAWINGS SHOWING ACTUAL DEVICE LAYOUT AND SHALL OBTAIN PERMITS ASSOCIATED WITH THIS WORK.

4 M700 **FIRE SUPPRESSION SYSTEM SCHEMATIC** N.T.S.

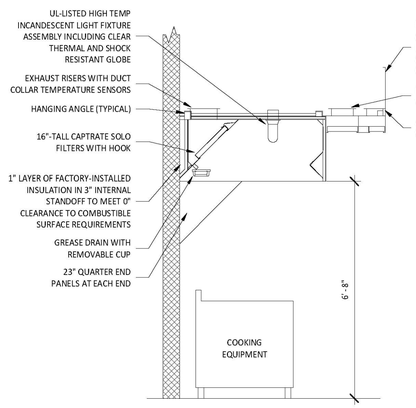
FIRE RATED ENCLOSURE - GREASE DUCTS

1. THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT.G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2-HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479). ICC CODE EVALUATION PER REPORT UL ER 14229-01.
2. COMPLIANT TO THE FOLLOWING CODES:
   NFPA 96
   INTERNATIONAL MECHANICAL CODES
   UNIFORM MECHANICAL CODE.
   CALIFORNIA MECHANICAL CODE
3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
4. MINIMUM 16 GAUGE CARBON STEEL (OR 18 GAGE STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT
5. INSTALL UL LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL ACCESS DOORS, OR ALTERNATE DOOR UL LISTED PER UL1978, AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 20 FT ON HORIZONTAL RUNS.
6. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM OF 3/8 IN. DIAMETER AND SUPPORTS ARE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
7. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ONTO THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.
8. THERMAL CERAMICS ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.

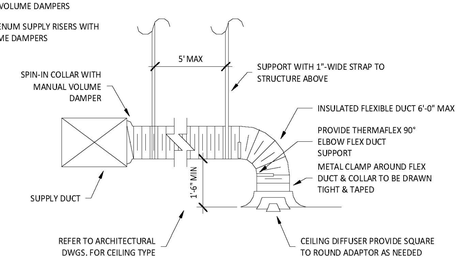


Morgan Thermal Ceramics
P.O. Box 923
Augusta, Georgia 30903-0923
Phone: (706) 560-4038

3 M700 **FIREMASTER DUCT WRAP - UL HNKT-G18** N.T.S.



2 M700 **HOOD SECTION VIEW** N.T.S.



NOTE:
1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.

1 M700 **DIFFUSER CONNECTION** N.T.S.

PLUMBING SPECIFICATIONS

SECTION 15055 -COMMON PIPING REQUIREMENTS
PART 1 - GENERAL
A. SECTION REQUIREMENTS
1. COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE AND THE LOCAL AUTHORITY HAVING JURISDICTION.
PART 2 - PRODUCTS
2.1 SUPPORTING DEVICES
A. HANGER AND PIPE ATTACHMENTS: FACTORY FABRICATED WITH GALVANIZED COATINGS; NONMETALLIC COATED FOR HANGERS IN DIRECT CONTACT WITH COPPER TUBING..
B. BUILDING ATTACHMENTS: POWDER ACTUATED TYPE, DRIVE PIN ATTACHMENTS WITH PULLOUT AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS; UL LISTING AND FM APPROVAL FOR FIRE PROTECTION SYSTEMS.
C. MECHANICAL ANCHOR FASTENERS: INSERT-TYPE ATTACHMENTS WITH PULLOUT AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS; UL LISTING AND FM APPROVAL FOR FIRE PROTECTION SYSTEMS.
PART 3 - EXECUTION
3.1 INSTALLATION
A. INSTALL PIPING FREE OF SAGS AND BENDS.
B. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.
C. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR AND ROOF SLABS.
D. EXTERIOR WALL, PIPE PENETRATIONS: MECHANICAL SLEEVE SEALS INSTALLED IN STEEL OR CAST IRON PIPES FOR WALL SLEEVES.
E. FIRE BARRIER PENETRATIONS: SEAL PIPE PENETRATIONS WITH THROUGH-PENETRATION FIRESTOP SYSTEMS.
F. INSTALL UNIONS ADJACENT TO EACH VALVE AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT
G. INSTALL DIELECTRIC UNIONS AND FLANGES TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS IN GAS PIPING.
H. INSTALL DIELECTRIC COUPLING AND NIPPLE FITTINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS IN WATER PIPING.
I. PROVIDE FULL RING ESCUTCHEONS AT PLUMBING PENETRATIONS THROUGH WALLS OR CEILINGS. TIGHTLY SEAL ESCUTCHEONS TO THE ADJACENT SURFACE.
3.2 HANGERS AND SUPPORTS
A. INSTALL BUILDING ATTACHMENTS WITHIN CONCRETE OR TO STRUCTURAL STEEL. INSTALL ADDITIONAL ATTACHMENTS AT CONCENTRATED LOADS, INCLUDING VALVES, FLANGES, GUIDES, STRAINERS, EXPANSION JOINTS, AND AT CHANGES IN DIRECTION OF PIPING.
B. INSTALL POWDER ACTUATED DRIVE PIN FASTENERS IN CONCRETE AFTER CONCRETE IS CURED. DO NOT USE IN LIGHTWEIGHT CONCRETE OR IN SLABS LESS THAN 4 INCHES THICK.
C. INSTALL MECHANICAL ANCHOR FASTENERS IN CONCRETE AFTER CONCRETE IS CURED. DO NOT USE IN LIGHTWEIGHT CONCRETE OR IN SLABS LESS THAN 4 INCHES THICK.
D. SUPPORT FIRE PROTECTION SYSTEM PIPING INDEPENDENT OF OTHER PIPING.
E. LOAD DISTRIBUTION: INSTALL HANGERS AND SUPPORTS SO PIPING LIVE AND DEAD LOADING AND STRESSES FROM MOVEMENT WILL NOT BE TRANSMITTED TO CONNECTED EQUIPMENT
END OF SECTION 15055

SECTION 15080-MECHANICAL INSULATION
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: NONE.
B. QUALITY ASSURANCE: LABELED WITH MAXIMUM FLAME-SPREAD RATING OF 25 AND MAXIMUM SMOKE DEVELOPED RATING OF 50 ACCORDING TO ASTM E 84.
PART 2 - PRODUCTS
2.1 PIPE INSULATION
A. PREFORMED GLASS FIBER PIPE INSULATION: ASTM C 547, CLASS 1, WITH FACTORY APPLIED, ALL PURPOSE, VAPOR RETARDER JACKET
B. POLYOLEFIN PIPE INSULATION: UNICELLULAR POLYETHYLENE, PREFORMED PIPE INSULATION. COMPLY WITH ASTM C 534, TYPE I, EXCEPT FOR DENSITY.
PART 3 - EXECUTION
3.1 INSTALLATION
A. INSTALL VAPOR BARRIERS ON INSULATED PIPES WITH SURFACE OPERATING TEMPERATURES BELOW 60 DEG F.
B. INSULATE FITTINGS, VALVES, AND SPECIALTIES.
C. SEAL VAPOR BARRIER PENETRATIONS FOR HANGERS, SUPPORTS, ANCHORS, AND OTHER PROJECTIONS.
D. COAT GLASS FIBER PIPE INSULATION ENDS WITH VAPOR BARRIER COATING.
E. ROOF PENETRATIONS: APPLY INSULATION FOR INTERIOR APPLICATIONS TO A POINT EVEN WITH THE TOP OF THE ROOF FLASHING.
F. EXTERIOR WALL PENETRATIONS: FOR PENETRATIONS OF BELOW GRADE EXTERIOR WALLS, TERMINATE INSULATION FLUSH WITH MECHANICAL SLEEVE SEAL.
G. INTERIOR WALLS AND PARTITIONS PENETRATIONS: APPLY INSULATION CONTINUOUSLY THROUGH WALLS AND PARTITIONS, EXCEPT FIRE RATED WALLS AND PARTITIONS.
H. FIRE RATED WALLS AND PARTITIONS PENETRATIONS: TERMINATE INSULATION AT PENETRATIONS THROUGH FIRE RATED WALLS AND PARTITIONS. SEAL AROUND PENETRATION WITH THROUGH PENETRATION FIRESTOP SYSTEMS.
I. FLOOR PENETRATIONS: TERMINATE INSULATION AT THE UNDERSIDE OF THE FLOOR ASSEMBLY AND AT THE FLOOR SUPPORT AT TOP OF FLOOR. SEAL AROUND PENETRATION WITH THROUGH PENETRATION FIRESTOP SYSTEMS.
J. GLASS FIBER INSULATION INSTALLATION: BOND INSULATION TO PIPE WITH ADHESIVE. SEAL SEAMS AND JOINTS WITH VAPOR BARRIER COMPOUND.
K. INTERIOR PIPING SYSTEM APPLICATIONS: INSULATE THE FOLLOWING PIPING SYSTEMS:
1. DOMESTIC COLD, HOT, AND RECIRCULATION WATER PIPES.
2. EXPOSED SANITARY DRAINS AND WATER SUPPLY PIPES FOR PUBLIC HAND SINKS.
3. REFRIGERANT PIPING.
L. DO NOT APPLY INSULATION TO THE FOLLOWING SYSTEMS, MATERIALS, AND EQUIPMENT
1. FLEXIBLE CONNECTORS.
2. FIRE PROTECTION PIPING SYSTEMS.
3. SANITARY DRAINAGE AND VENT PIPING.
4. CHROME PLATED PIPES AND FITTINGS, EXCEPT FOR PLUMBING FIXTURES FOR THE DISABLED.
5. PIPING SPECIALTIES, INCLUDING AIR CHAMBERS, UNIONS, STRAINERS, CHECK VALVES, PLUG VALVES, AND FLOW REGULATORS.
M. PIPE INSULATION THICKNESS APPLICATION SCHEDULE: INSULATE PIPING WITH THE FOLLOWING MATERIALS AND THICKNESSES:
1. DOMESTIC HOT AND RECIRCULATION WATER PIPES: 1-INCH PREFORMED GLASS FIBER PIPE INSULATION.
2. DOMESTIC COLD WATER: 1-1/2-INCH PREFORMED GLASS FIBER PIPE INSULATION.
3. P-TRAP AND FIXTURE SUPPLIES FOR PUBLIC HAND SINKS: ADA-COMPLIANT PRE-FORMED INSULATION.
END OF SECTION 15080

SECTION 15110-VALVES
PART 1 -GENERAL (NOT APPLICABLE)
PART 2 - PRODUCTS
2.1 GENERAL DUTY VALVES
A. END CONNECTIONS: THREADS SHALL COMPLY WITH ANSI B1.20.1. FLANGES SHALL COMPLY WITH ANSI B16.1 FOR CAST IRON VALVES AND ANSI B16.24 FOR BRONZE VALVES. SOLDER-JOINT CONNECTIONS SHALL COMPLY WITH ANSI B16.18.
B. BALL VALVES: RATED FOR 150 PSIG SATURATED STEAM PRESSURE, 400 PSIG WOG PRESSURE; 2 PIECE CONSTRUCTION; WITH BRONZE BODY, STANDARD (OR REGULAR) PORT, CHROME PLATED BRASS BALL, REPLACEABLE "TEFLON" OR "TFE" SEATS AND SEALS, BLOWOUT PROOF STEM, AND VINYL COVERED STEEL HANDLE.
C. PLUG VALVES: RATED AT 150 PSIG WOG; BRONZE BODY, WITH STRAIGHTAWAY PATTERN, SQUARE HEAD, AND THREADED ENDS.
D. SWING CHECK VALVES: CLASS 125, CAST BRONZE BODY AND CAP; WITH HORIZONTAL SWING, Y-PATTEM, AND BRONZE DISC.
E. VALVES FOR COPPER TUBE: SOLDER ENDS, EXCEPT PROVIDE THREADED ENDS FOR HEATING HOT WATER AND LOW PRESSURE STEAM SERVICE.
F. VALVES FOR STEEL PIPE: THREADED ENDS.
PART 3 - EXECUTION
3.1 INSTALLATION
A. USE GATE AND BALL VALVES FOR SHUTOFF DUTY AND BALL FOR THROTTLING DUTY.
B. LOCATE VALVES FOR EASY ACCESS AND PROVIDE SEPARATE SUPPORT WHERE NECESSARY.
C. INSTALL ACCESSIBLE VALVES FOR EACH FIXTURE AND ITEM OF EQUIPMENT
D. INSTALL VALVES IN HORIZONTAL PIPING WITH STEM AT OR ABOVE CENTER OF PIPE.
E. INSTALL VALVES IN A POSITION TO ALLOW FULL STEM MOVEMENT
INSTALL CHECK VALVES FOR PROPER DIRECTION OF FLOW IN HORIZONTAL POSITION WITH HINGE PIN LEVEL.
END OF SECTION 15110

SECTION 15140 - DOMESTIC WATER PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. PERFORMANCE REQUIREMENTS: UNLESS OTHERWISE INDICATED MINIMUM PRESSURE REQUIREMENTS FOR WATER PIPING ARE AS FOLLOWS:
1. SERVICE ENTRANCE PIPING: 100 PSIG.
2. DOMESTIC WATER PIPING: 80 PSIG.
B. COMPLY WITH NSF 14 "PLASTIC PIPING COMPONENTS AND MATERIALS."
C. COMPLY WITH NSF 61 "DRINKING WATER SYSTEM COMPONENTS-HEALTH EFFECTS."
PART 2 - PRODUCTS
2.1 PIPES AND TUBES (SEE MATERIAL SCHEDULE ON SHEET P010 FOR WHERE THESE MATERIALS ARE TO BE USED)
A. HARD COPPER TUBE: ASTM B 88, TYPES L, WATER TUBE, DRAWN TEMPER.
B. PVC PLASTIC, WATER PIPE: ASTM D 1785, SCHEDULE 80, PLAIN ENDS.
2.2 FITTINGS
A. WROUGHT COPPER, SOLDER JOINT PRESSURE FITTINGS: ASME B 16.22.
B. CAST COPPER ALLOY, SOLDER JOINT PRESSURE FITTINGS: ASME B 16.18.
C. BRONZE FLANGES: ASME B 16.24, CLASSES 150 AND 300.
D. COPPER UNIONS: ASME B 16.18, CAST COPPER ALLOY BODY, HEXAGONAL STOCK, WITH BALL AND SOCKET JOINT, METAL TO METAL SEATING SURFACES, AND SOLDER JOINT, THREADED, OR SOLDER JOINT AND THREADED ENDS. THREADS COMPLYING WITH ASME B 1.20.1.
E. PVC PLASTIC, SCHEDULE 80, SOCKET TYPE PIPE FITTINGS: ASTM D 2467.
2.3 JOINING MATERIALS
A. SOLDER FILLER METAL: ASTM B 32, LEAD FREE.....
B. BRAZING FILLER METALS: AWS A5.8, ALLOYS TO SUIT SYSTEM REQUIREMENTS.
C. SOLVENT CEMENTS: AS RECOMMENDED BY MANUFACTURER.
D. PLASTIC PIPE SEALS: ASTM F 477, ELASTOMERIC GASKET
PART 3 - EXECUTION
3.1 VALVE APPLICATIONS
A. INSTALL GATE VALVES CLOSE TO MAIN ON EACH BRANCH AND RISER SERVING TWO OR MORE PLUMBING FIXTURES OR EQUIPMENT CONNECTIONS AND WHERE INDICATED.
B. INSTALL GATE OR BALL VALVES ON INLET TO EACH PLUMBING EQUIPMENT ITEM, ON EACH SUPPLY TO EACH PLUMBING FIXTURE NOT HAVING STOPS ON SUPPLIES, AND ELSEWHERE AS INDICATED.
C. INSTALL DRAIN VALVE AT BASE OF EACH RISER, AT LOW POINTS OF HORIZONTAL RUNS, AND WHERE REQUIRED TO DRAIN WATER DISTRIBUTION PIPING SYSTEM.
D. INSTALL SWING CHECK VALVE ON DISCHARGE SIDE OF EACH PUMP AND ELSEWHERE AS INDICATED.
E. INSTALL BALL VALVES IN EACH HOT WATER CIRCULATING LOOP AND DISCHARGE SIDE OF EACH PUMP.
3.2 PIPING INSTALLATIONS
A. INSTALL HANGERS AND SUPPORTS AT INTERVALS INDICATED IN THE APPLICABLE PLUMBING CODE AND AS RECOMMENDED BY PIPE MANUFACTURER.
B. SUPPORT VERTICAL PIPING AT EACH FLOOR.
3.3 INSPECTING AND CLEANING
A. INSPECT AND TEST PIPING SYSTEMS FOLLOWING PROCEDURES OF AUTHORITIES HAVING JURISDICTION.
B. CLEAN AND DISINFECT WATER DISTRIBUTION PIPING FOLLOWING PROCEDURES OF AUTHORITIES HAVING JURISDICTION.
END OF SECTION 15140

SECTION 15150-SANITARY WASTE AND VENT PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. MINIMUM PRESSURE REQUIREMENT FOR SOIL, WASTE AND VENT 10 FEET HEAD.
B. COMPLY WITH NSF 14 "PLASTIC PIPING COMPONENTS AND RELATED MATERIALS".
PART 2 - PRODUCTS
2.1 PIPES AND TUBES
A. PVC PLASTIC, *DWV* PIPE: ASTM D 2665, SCHEDULE 40, PLAIN ENDS.
2.2 FITTINGS
A. PVC PLASTIC, DWV PIPE FITTINGS: ASTM D 2665, MADE TO ASTM D 3311; SOCKET TYPE; DRAIN, WASTE, AND VENT PIPE PATTERNS.
PART 3 - EXECUTION
3.1 PIPING INSTALLATION
A. INSTALL CLEANOUT AND EXTENSION TO GRADE AT CONNECTION OF BUILDING SANITARY DRAIN AND BUILDING SANITARY SEWER.
B. LOCATE DRAINAGE PIPING RUNOUTS AS CLOSE AS POSSIBLE TO BOTTOM OF FLOOR SLAB SUPPORTING FIXTURES OR DRAINS.
3.2 INSPECTION
A. INSPECT AND TEST PIPING SYSTEMS FOLLOWING PROCEDURES OF AUTHORITIES HAVING JURISDICTION.
END OF SECTION 15150

SECTION 15198-NATURAL GAS PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. QUALITY ASSURANCE: COMPLY WITH NFPA 54 AND THE PLUMBING CODE.
PART 2 - PRODUCTS
2.1 PIPE, TUBE, AND SPECIAL TIES
A. STEEL PIPE: ASTM A 53, TYPE S (SEAMLESS), GRADE B, SCHEDULE 40, PLAIN ENDS.
B. MALLEABLE IRON THREADED FITTINGS: ASME B16.3, CLASS 150.
C. MANUAL VALVES: COMPLY WITH STANDARDS LISTED OR, IF APPROPRIATE, TO ANSI Z21.15.
D. GAS STOPS: AGA CERTIFIED, BRONZE-BODY, PLUG TYPE WITH BRONZE PLUG, FOR2-PSIG OR LESS NATURAL GAS. INCLUDE AGA STAMP, FLAT OR SQUARE HEAD OR LEVER HANDLE, AND THREADED ENDS COMPLYING WITH ASME B1.20.1.
E. GAS VALVES: 150-PSIG WOG, CAST-IRON OR BRONZE BODY, BRONZE PLUG, STRAIGHTAWAY PATTERN, SQUARE HEAD, TAPERED-PLUG TYPE.
F. GAS PRESSURE REGULATORS: ANSI Z21.18, SINGLE STAGE, STEEL JACKETED, CORROSION RESISTANT PRESSURE REGULATORS. INCLUDE ATMOSPHERIC VENT, ELEVATION COMPENSATOR. REGULATOR PRESSURE RATINGS, INLET AND OUTLET PRESSURES, AND FLOW VOLUME IN CUBIC FEET PER HOUR OF NATURAL GAS AT SPECIFIC GRAVITY ARE AS INDICATED.
1. LINE GAS PRESSURE REGULATORS: INLET PRESSURE RATING NOT LESS THAN SYSTEM PRESSURE.
G. FLEXIBLE CONNECTORS: ANSI Z21.24, COPPER ALLOY.
H. STRAINERS: BRONZE BODY, Y-PATTEM, FULL SIZE OF CONNECTING PIPING. INCLUDE STAINLESS-STEEL SCREENS WITH 3164 INCH PERFORATIONS AND A PRESSURE RATING OF 125-PSIG- MINIMUM, WOG WORKING PRESSURE.
PART 3 - EXECUTION
3.1 INSTALLATION
A. CLOSE EQUIPMENT SHUTOFF VALVES BEFORE TURNING OFF GAS TO PREMISES OR SECTION OF PIPING. PERFORM LEAKAGE TEST AS SPECIFIED TO DETERMINE THAT ALL EQUIPMENT IS TURNED OFF IN AFFECTED PIPING SECTION.
B. INSTALL SHUTOFF VALVE, DOWNSTREAM FROM GAS METER, OUTSIDE BUILDING AT GAS SERVICE ENTRANCE.
C. INSTALL GAS STOPS FOR SHUTOFF TO APPLIANCES WITH NPS 2" OR SMALLER LOW PRESSURE GAS SUPPLY.
D. DRIPS AND SEDIMENT TRAPS: INSTALL DRIPS AT POINTS WHERE CONDENSATE MAY COLLECT. INCLUDE OUTLETS OF GAS METERS. LOCATE WHERE READILY ACCESSIBLE TO PERMIT CLEANING AND EMPTYING. DO NOT INSTALL WHERE CONDENSATE WOULD BE SUBJECT TO FREEZING.
E. INSTALL GAS PIPING AT UNIFORM SLOPE OF 0.1 PERCENT UPWARD TOWARD RISERS.
F. CONNECT BRANCH PIPING FROM TOP OR SIDE OF HORIZONTAL PIPING.
G. INSTALL STRAINERS ON SUPPLY SIDE OF EACH CONTROL VALVE, GAS PRESSURE REGULATOR, SOLENOID VALVE, AND ELSEWHERE AS INDICATED.
H. INSTALL VALVES IN ACCESSIBLE LOCATIONS, PROTECTED FROM DAMAGE.
I. INSTALL GAS VALVE UPSTREAM FROM EACH GAS PRESSURE REGULATOR. WHERE TWO GAS-PRESSURE REGULATORS ARE INSTALLED IN SERIES, VALVE IS NOT REQUIRED AT SECOND REGULATOR.
J. CONNECT GAS PIPING TO EQUIPMENT AND APPLIANCES WITH SHUTOFF VALVES AND UNIONS. INSTALL GAS VALVE UPSTREAM FROM AND WITHIN 36 INCHES OF EACH APPLIANCE USING GAS. INSTALL UNION OR FLANGED CONNECTION DOWNSTREAM FROM VALVE.
K. INSPECT, TEST, AND PURGE PIPING ACCORDING TO NFPA 54, PART 4, "GAS PIPING INSPECTION, TESTING, AND PURGING", AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
END OF SECTION 15198

SECTION 15410-PLUMBING FIXTURES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: NONE.
B. COMPLY WITH REQUIREMENTS OF PUBLIC LAW 102-486, "ENERGY POLICY ACT", REGARDING WATER FLOW RATE AND WATER CONSUMPTION OF PLUMBING FIXTURES.
C. COMPLY WITH APPLICABLE STANDARDS BELOW:
1. ENAMELED, CAST IRON FIXTURES: ASMEA112.19.1M.
2. NATIONAL SANITATION FOUNDATION CONSTRUCTION: NFS2.
3. PORCELAIN ENAMELED FIXTURES: ASME A112.19.4M.
4. SLIP RESISTANT BATHING SURFACES: ASTM F 462.
5. STAINLESS STEEL FIXTURES: ASME A112.19.3M.
6. VITREOUS CHINA FIXTURES: ASME A112.19.2M.
PART 2 - PRODUCTS
2.1 REFER TO THE FIXTURE SCHEDULE ON DRAWING P600
PART 3 - EXECUTION
3.1 INSTALLATION
A. INSTALL FIXTURES WITH FLANGES AND GASKET SEALS.
B. INSTALL FLUSHOMETER VALVES FOR ACCESSIBLE WATER CLOSETS AND URINALS WITH HANDLE MOUNTED ON WIDE SIDE OF COMPARTMENT INSTALL OTHER ACTUATORS IN LOCATIONS THAT ARE EASY FOR THE DISABLED TO REACH.
C. FASTEN WALL HANGING PLUMBING FIXTURES SECURELY TO SUPPORTS ATTACHED TO BUILDING SUBSTRATE WHEN SUPPORTS ARE SPECIFIED, AND TO BUILDING WALL CONSTRUCTION WHERE NO SUPPORT IS INDICATED.
D. FASTEN FLOOR MOUNTED FIXTURES TO SUBSTRATE. WITH FIXTURES HAVING HOLES FOR SECURING FIXTURE TO WALL CONSTRUCTION, FASTEN TO REINFORCEMENT BUILT INTO WALLS.
E. FASTEN WALL MOUNTED FITTINGS TO REINFORCEMENT BUILT INTO WALLS.
F. FASTEN COUNTER MOUNTED PLUMBING FIXTURES TO CASEWORK.
G. SECURE SUPPLIES TO SUPPORTS OR SUBSTRATE WITHIN PIPE SPACE BEHIND FIXTURE.
H. SET MOP BASINS IN LEVELING BED OF CEMENT GROUT
I. INSTALL INDIVIDUAL SUPPLY INLETS, SUPPLY STOPS, SUPPLY RISERS, AND TUBULAR BRASS TRAPS WITH CLEANOUTS AT FIXTURE.
J. INSTALL WATER SUPPLY STOP VALVES IN ACCESSIBLE LOCATIONS.
K. INSTALL TRAPS ON FIXTURE OUTLETS. OMIT TRAPS ON FIXTURES HAVING INTEGRAL TRAPS. OMIT TRAPS ON INDIRECT WASTES, UNLESS OTHERWISE INDICATED OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
L. INSTALL FULL-RING ESCUTCHEONS AT WALL, FLOOR, AND CEILING PENETRATIONS IN EXPOSED, FINISHED LOCATIONS AND WITHIN CABINETS AND MILLWORK. USE DEEP PATTERN ESCUTCHEONS WHERE REQUIRED TO CONCEAL PROTRUDING PIPE FITTINGS.
M. INSTALL PIPING CONNECTIONS BETWEEN PLUMBING FIXTURES AND PIPING SYSTEMS AND PLUMBING EQUIPMENT INSTALL INSULATION ON SUPPLIES AND DRAINS OF FIXTURES FOR THE DISABLED.
N. GROUND EQUIPMENT. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO UL 486AAND UL 486B.
END OF SECTION 15410

SECTION 15554 - FLUES AND VENTS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: NONE.
PART 2 - PRODUCTS
2.1 GAS VENTS
A. VENT/AIR INTAKE FOR HIGH EFFICIENCY DOMESTIC WATER HEATER. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR SIZING AND MATERIAL.
B. ACCESSORIES: TEES, ELBOWS, INCREASERS, DRAFT HOOD CONNECTORS, METAL CAP WITH BIRD BARRIER, ADJUSTABLE ROOF FLASHING, STORM COLLAR, SUPPORT ASSEMBLY, THIMBLES, FIRESTOPPING SPACERS, AND FASTENERS; FABRICATED OF SIMILAR MATERIALS AND DESIGNS AS VENT-PIPE STRAIGHT SECTIONS.
PART 3 - EXECUTION
3.1 INSTALLATION
A. INSTALL VENTS ACCORDING TO STIPULATED MINIMUM CLEARANCES FROM COMBUSTIBLES.
B. SEAL BETWEEN SECTIONS OF POSITIVE PRESSURE VENTS USING ONLY SEALANTS RECOMMENDED BY MANUFACTURER.
C. SUPPORT VENTS AT INTERVALS TO SUPPORT THE WEIGHT OF THE VENT AND ALL ACCESSORIES, WITHOUT EXCEEDING LOADING OF APPLIANCES.
END OF SECTION 15554

PLUMBING GENERAL NOTES

A. GENERAL NOTES APPLY TO PLUMBING SHEETS.
B. PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE PLUMBING CODE, LOCAL HEALTH DEPARTMENT STANDARDS, AND THE AUTHORITY HAVING JURISDICTION. SEE SHEET G001 FOR THE PREVAILING CODES.
C. PIPING LAYOUTS ON DRAWINGS ARE SCHEMATIC. EXACT LOCATIONS ARE TO BE COORDINATED WITH THE EXISTING CONDITIONS AND THE WORK OF OTHER TRADES.
D. CONCEAL PIPING UNLESS NOTED OTHERWISE. WATER SUPPLY PIPES SHALL BE INSTALLED LEVEL.
E. PROVIDE SHUT-OFF VALVES FOR ISOLATION OF FIXTURE GROUPS AS SHOWN ON DRAWINGS IN ADDITION TO STOP VALVES AT EACH FIXTURE.
F. PROVIDE STOP VALVES AT FIXTURES.
G. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS AS SHOWN ON SHEET P100.
H. WHERE THE WATER OR GAS SUPPLY LINE SIZE SHOWN IN THE PLUMBING DIAGRAMS DIFFERS FROM THE FIXTURE OR EQUIPMENT CONNECTION SIZE, PROVIDE LINE SIZE PIPE TO WITHIN 6" OF THE FIXTURE OR EQUIPMENT BEFORE TRANSITIONING TO THE CONNECTION SIZE.
I. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED BETWEEN THE INSULATION AND THE INTERIOR WALL FINISHING MATERIAL
J. INSULATE THE HOT AND COLD WATER, CONDENSATE DRAINAGE, AND STORM PIPING PER THE SPECIFICATIONS AND DETAIL 8/P700.
K. PROVIDE GAS SHUT-OFF VALVES AT EACH PIECE OF EQUIPMENT. PROVIDE ACCESSIBLE DIRT LEG AT THE BOTTOM OF VERTICAL SECTIONS OF GAS PIPE AND AT THE CONNECTION TO EACH PIECE OF EQUIPMENT.
L. PLUMBING FIXTURES, ACCESSORIES, AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE LEAD FREE
M. PRIOR TO TURNOVER PERFORM A VIDEO INSPECTION OF THE SANITARY AND GREASE LINES FROM THE MAIN LINES WITHIN THE TENANT SPACE TO THE MAIN SEWER TO VERIFY THAT THE SANITARY WASTE SYSTEM IS CONNECTED, CLEAN, AND FREE OF SAGS, BELLIES, BREAKS, AND DEBRIS. DELIVER A REPORT AND COPY OF THE VIDEO TO THE TENANT'S CONSTRUCTION MANAGER PRIOR TO TURNOVER.
N. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
O. PRIOR TO CONNECTION TO ANY EXISTING SEWER SYSTEM PERFORM A DIE TEST TO VERIFY THE TYPE OF SYSTEM AND THE DIRECTION OF FLOW. REPORT ANY DEVIATION FROM THE CONSTRUCTION DOCUMENTS TO THE TENANT'S CONSTRUCTION MANAGER.
P. PROVIDE SANITARY AND GREASE WASTE PIPES AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS NOTED OTHERWISE.
Q. PERFORM A FLOW TEST ON THE DOMESTIC WATER SERVICE AT POSSESSION. IF THE STATIC WATER PRESSURE IS OVER 80 PSI THEN COORDINATE WITH CHIPOTLE CONSTRUCTION MANAGER TO PROVIDE A PRESSURE REGULATOR (WATTS LFUSB-Z3 OR EQUAL). PROVIDE RESULTS OF THE FLOW TEST TO THE ENGINEER FOR CONFIRMATION OF ADEQUATE CAPACITY.

PLUMBING SYMBOLS

- ELBOW UP
- ELBOW DOWN
- DOMESTIC COLD WATER
- DOMESTIC FILTERED COLD WATER
- DOMESTIC HOT WATER (110 DEGREES)
- DOMESTIC HOT WATER RECIRC.
- GAS
- GAS (ON ROOF)
- SANITARY WASTE
- GREASE WASTE
- SANITARY VENT
- CONDENSATE DRAIN
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER
- WATER METER
- GAS METER
- EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET P200 FOR EQUIPMENT INFORMATION
- VALVE
- SOLENOID-OPERATED VALVE
- WALL HYDRANT/ROOF HYDRANT
- CHECK VALVE
- CIRCUIT-SETTER BALANCE VALVE RATED FOR POTABLE WATER
- FLOOR DRAIN
- FLOOR SINK
- CLEANOUT

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
EX	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GCO	GRADE CLEANOUT
CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

PLUMBING MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
WATER SUPPLY PIPE	ABOVE GRADE	TYPE L COPPER TUBE
NATURAL GAS PIPE	CONCEALED	SCHED. 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS
	EXPOSED	SCHED. 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS, PAINTED
SANITARY WASTE & VENT PIPE	ABOVE GROUND, CONCEALED	PVC PLASTIC DWV PIPE AND FITTINGS
	ABOVE GROUND PREP SINK AND WARE WASHING SINK DRAINS	PVC PLASTIC DWV PIPE AND FITTINGS
	ABOVE GROUND HAND SINK DRAINS	BRASS WITH CHROME FINISH
	BELOW GROUND	PVC PLASTIC DWV PIPE AND FITTINGS

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Issue Record:

05/30/2024	COMBINE PERMIT SET
07/01/2024	REVISION 1

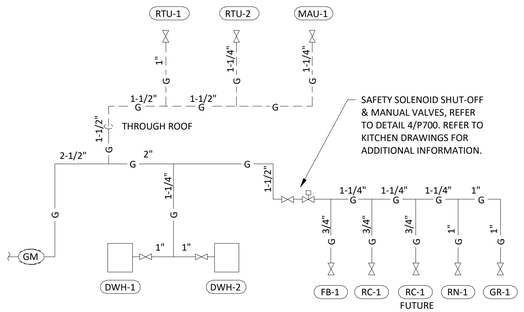
Revisions:

Drawn: AK
Checked: NH
Project No.: CMG5134
Contents: PLUMBING SPECIFICATIONS

P010

CONNECTED GAS LOAD			
FIXTURE	TAG	MBH	EQUIVALENT LENGTH FROM METER [FT]
WATER HEATER	DWH-1	199	50
WATER HEATER	DWH-2	199	50
FRYER	FB-1	95	85
GRIDDLE	GR-1	107	95
MAKEUP AIR UNIT	MAU-1	225	100
RICE COOKER	RC-1	35	90
RICE COOKER (FUTURE)	RC-1	35	90
RANGE	RN-1	192	95
KITCHEN ROOFTOP UNIT	RTU-1	180	50
DINING ROOM ROOFTOP UNIT	RTU-2	240	65
Grand total		1507	MAX: 100

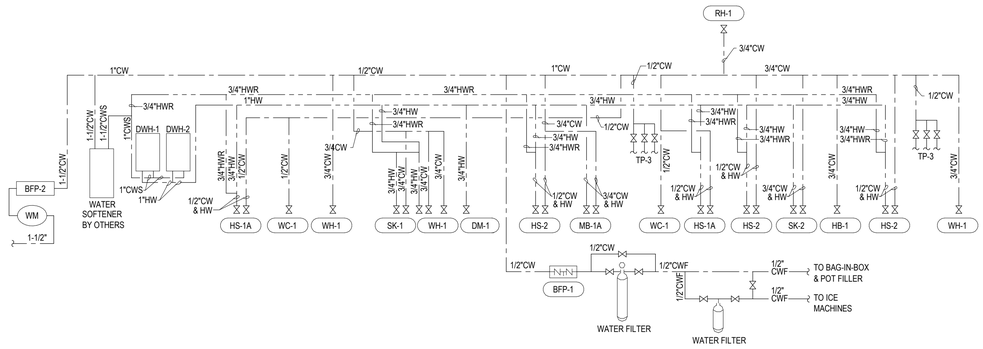
NOTES:
1. PRESSURE REQUIRED AFTER METER: 7" W.C.
2. DISTANCES ARE APPROXIMATE



3 P100 GAS DISTRIBUTION DIAGRAM
NOT TO SCALE

PLUMBING SUPPLY PLAN NOTES

1. SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 1-1/2" DOMESTIC WATER SERVICE.
2. PROVIDE 1/2" FILTERED WATER TO THE BAG-IN-BOX SODA CARBONATOR AT 102" AFF. SODA CARBONATOR SHALL HAVE AN INTEGRAL ASSE 1022-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.
3. PROVIDE WATER HEATERS DWH-1 AND DWH-2 PER DETAIL 1/P700.
4. PROVIDE WATER FILTERS MOUNTED TO WALL PER DETAIL 11/P700. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE MAKER AND SODA CARBONATOR AS SHOWN.
5. PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 56" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
6. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE MOP BASIN FAUCET AT 36" AFF. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 64" AFF DIRECTLY ABOVE THE MOP BASIN FAUCET. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
7. PROVIDE NEW GAS METER. SEE CIVIL UTILITY PLAN FOR ON-SITE GAS ROUTING.
8. PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PRE DETAIL 7/P700.
9. SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL 5/P700. WOOD BLOCKING IS NOT AN ACCEPTABLE METHOD OF SUPPORTING THE GAS PIPE.
10. PROVIDE ACCESSIBLE LINE-SIZED GAS VALVE, DIRT LEG, AND UNION AT GAS CONNECTION TO THE EQUIPMENT.
11. REFER TO ARCHITECTURAL DRAWINGS FOR PAINTING OF INTERIOR AND EXTERIOR EXPOSED GAS PIPE.
12. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
13. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE VICTORY WASH DISPENSER FAUCET (HB-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
14. PROVIDE ROUGH-INS TO RESTROOM HAND SINKS AS SHOWN IN DETAIL 14/P700.
15. PROVIDE KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAIL 4/P700.
16. CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 10/P700.
17. PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS LFUSG-B, ON WATER SUPPLY TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW SINK, FASTEN MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION FROM ANGLE STOPS TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET USING BRAIDED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A DISCHARGE TEMPERATURES OF APPROXIMATELY 110°F.
18. PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE AS SHOWN.
19. PROVIDE GAS CONNECTION TO THE RICE COOKER PER DETAIL 6/P700. ADD EXTRA GAS STUB FOR FUTURE RICE COOKER CONNECTION.
20. PROVIDE GAS ROUGH-IN TO FRYER BEHIND RICE COOKER TABLE SO THAT VALVES AND DIRT LEG ARE ACCESSIBLE ONCE FRYER IS SECURED INTO PLACE.
21. PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 24" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
22. INSTALL RGF IMSD ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS.
23. PROVIDE 3/4" DOMESTIC HOT AND COLD WATER ROUGH-INS FOR THE PREP SINK (SK-2) FAUCET AT 24" AFF TO ALLOW FOR THE VICTORY WAS CHEMICAL DOCK TO BE INSTALLED DIRECTLY BELOW THE PREP SINK BASIN.
24. PROVIDE 3/4" HOT WATER TO THE DISH MACHINE, MAKING FINAL CONNECTION USING 3/4" COPPER PIPE ONCE DISH MACHINE IS IN ITS FINAL LOCATION (FLEXIBLE CONNECTION IS NOT ACCEPTABLE). PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE. PROVIDE AN ACCESSIBLE SHUTOFF VALVE AND UNION BELOW THE DISH MACHINE AND INSTALL THE STRAINER AND PRESSURE REDUCING VALVE FURNISHED WITH THE DISH MACHINE IN AN ACCESSIBLE LOCATION AT THE CONNECTION TO THE UNIT.
25. PROVIDE ROOF HYDRANT RH-1 WITH BOTTOM OF NOZZLE INSTALLED 24" ABOVE THE BOTTOM OF ROOF DECK. PROVIDE ACCESSIBLE ISOLATION VALVE IN WATER SUPPLY TO ROOF HYDRANT. SUPPORT ROOF HYDRANT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
26. PROVIDE FILTERED DOMESTIC WATER ROUGH-IN FOR THE SPEED FILL POT FILLER FAUCET (PF-1) AT 40" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
27. PROVIDE WATER SERVICE ENTRY PER DETAIL 16/P700.
28. INSTALL RGF IMSB ICE MAKE SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS. LOCATE IMSB BELOW UTENSIL COUNTER IN A LOCATION THAT DOES NOT INTERFERE WITH THE ROLLING RACK BELOW THE UTENSIL COUNTER.
29. PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
30. PROVIDE ACCESSIBLE TRAP PRIMER ABOVE LAY-IN CEILING AS SHOWN. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH A SERVICE VALVE AT THE TRAP PRIMER INLET. PROVIDE 1/2" DISTRIBUTION PIPE(S) TO FLOOR DRAIN TRAP PRIMER CONNECTION(S) AS SHOWN. HORIZONTAL DISTRIBUTION PIPING SHALL HAVE CONTINUOUS SLOPE TO THE FLOOR DRAIN(S).
31. GAS DOWN TO KITCHEN EQUIPMENT. PROVIDE AUTOMATIC EMERGENCY FUEL SHUT-OFF VALVE IN RISER, EMERGENCY SHUT-OFF INTERLOCKED TO HOOD FIRE SUPPRESSION SYSTEM. COORDINATE EXACT LOCATION WITH THE KITCHEN HOOD VENDOR AND LOCAL AHJ REQUIREMENTS.

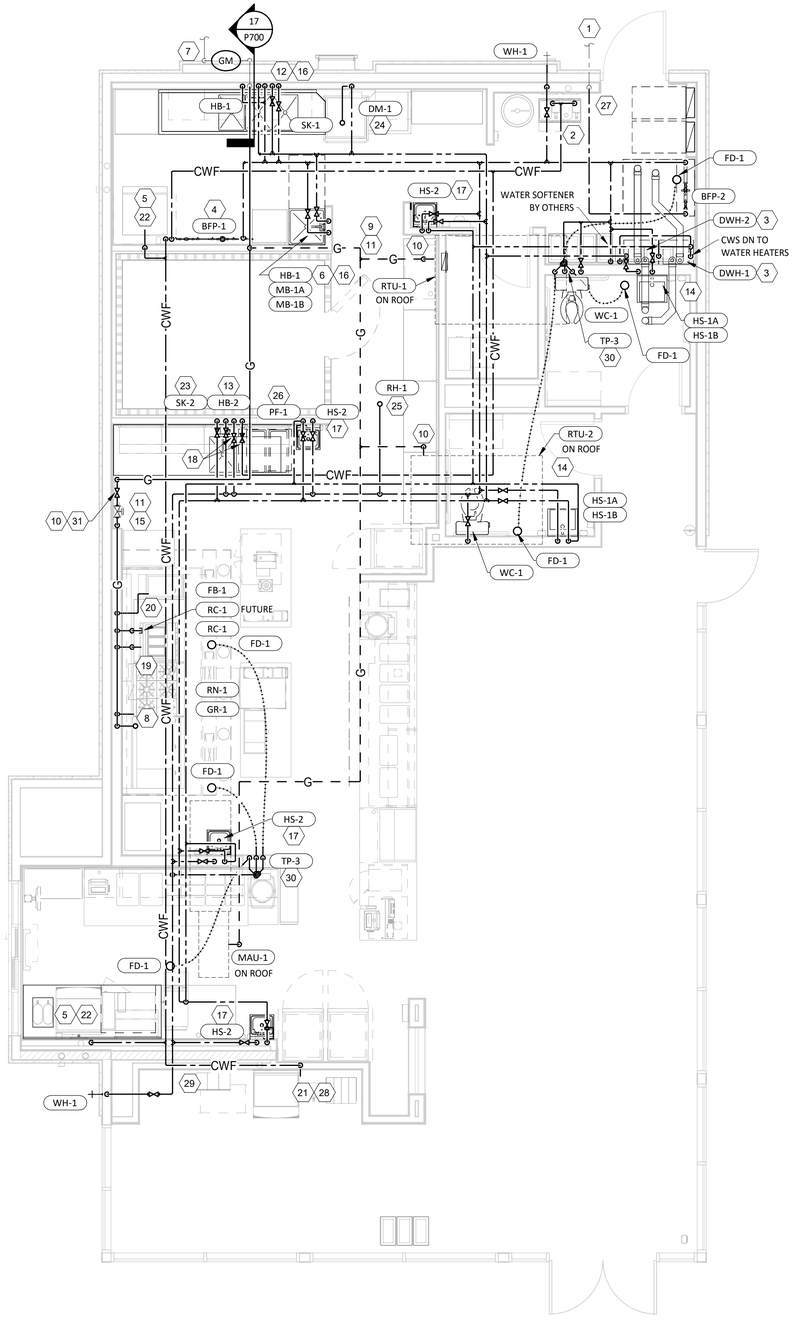


2 P100 PLUMBING SUPPLY DIAGRAM
NOT TO SCALE

NOTE:
ENSURE ALL TRAP PRIMERS ARE ACCESSIBLE. DO NOT LOCATE ABOVE ANY LARGE PIECES OF EQUIPMENT.

NOTE:
COORDINATE ALL PLUMBING LOCATIONS WITH ELECTRICAL LOCATIONS. WATER LINES NOT TO BE INSTALLED ABOVE RECEPTACLES.

NOTE:
PLUMBING CONTRACTOR SHALL PROVIDE JOMAR VALVE RECIRCSETTER™AUTOMATIC VARIABLE SET POINT BALANCING VALVE OR EQUIVALENT AT EACH HOT WATER CIRCULATION CONNECTION TO THE HOT WATER SYSTEM. ENSURE VALVES ARE INSTALLED IN AN ACCESSIBLE LOCATION FOR ADJUSTMENT AND SERVICE. SYSTEM SHALL BE SET FOR A 5 DEGREE TEMPERATURE DIFFERENCE FROM WATER HEATER SET POINT. CONSULT WITH THE CIRCULATING PUMP MANUFACTURER FOR ADDITIONAL CONTROLS AND BALANCING INSTRUCTION.



PLUMBING SUPPLY PLAN
1 P100 1/4" = 1'-0"

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Issue Record:

05/30/2024	COMBINE PERMIT SET
07/01/2024	REVISION 1

Revisions:

1	07/01/24	CITY COMMENTS

Drawn: AK
Checked: NH

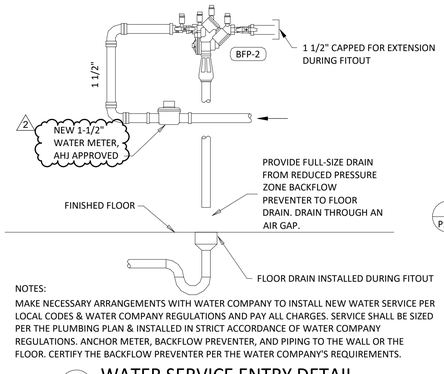
Project No.: CMG5134

Contents:
PLUMBING PLAN
WATER & GAS

P100

PLUMBING FIXTURE / EQUIPMENT SCHEDULE

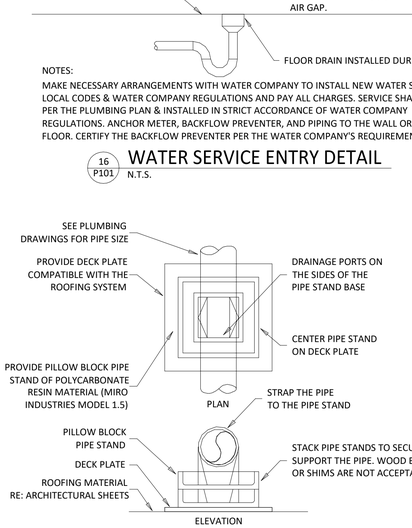
TAG	FIXTURE	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL NUMBER	DESCRIPTION	CONNECTION SIZES			QUANTITY
							HW	CW	WASTE	
BFP-2	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-207	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE AND AIR GAP FITTING	--	1-1/2"	--	1
DN-1	DOWNSPOUT NOZZLE	GC	GC	WATTS	RD-940	CAST NICKEL BRONZE COW'S TONGUE DOWNSPOUT NOZZLE	--	--	3"	4
RD-1	ROOF DRAIN	GC	GC	WATTS	RD-103	EPOXY COATED CAST IRON ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL GRAVEL STOP, SELF-LOCKING POLYETHYLENE DOME, AND NO HUB OUTLET	-	-	3"	2
RD-2	ROOF DRAIN	GC	GC	WATTS	RD-103-W	EPOXY COATED CAST IRON OVERFLOW ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL 4 IN. (102MM) HIGH INTERNAL STANDPIPE, SELF-LOCKING POLYETHYLENE DOME, AND NO HUB OUTLET	-	-	3"	2
WH-1	FROST PROOF WALL HYDRANT	GC	GC	WOODFORD	MODEL 65	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER. PROVIDE WITH STEM LONG ENOUGH TO REACH INSIDE THE THERMAL ENVELOPE OF THE BUILDING.	--	3/4"	--	2



NOTES:
MAKE NECESSARY ARRANGEMENTS WITH WATER COMPANY TO INSTALL NEW WATER SERVICE PER LOCAL CODES & WATER COMPANY REGULATIONS AND PAY ALL CHARGES. SERVICE SHALL BE SIZED PER THE PLUMBING PLAN & INSTALLED IN STRICT ACCORDANCE OF WATER COMPANY REGULATIONS. ANCHOR METER, BACKFLOW PREVENTER, AND PIPING TO THE WALL OR THE FLOOR. CERTIFY THE BACKFLOW PREVENTER PER THE WATER COMPANY'S REQUIREMENTS.

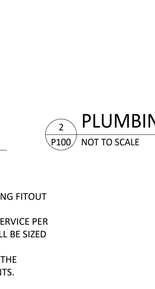
16 P101 WATER SERVICE ENTRY DETAIL
N.T.S.

2 P100 PLUMBING SUPPLY DIAGRAM
NOT TO SCALE

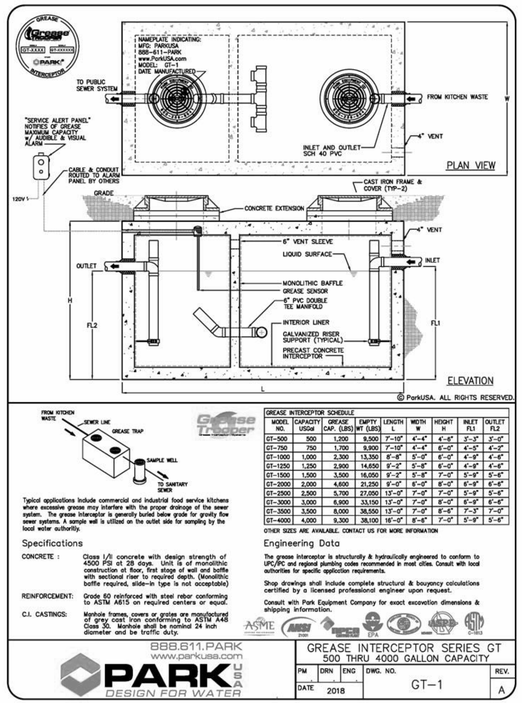


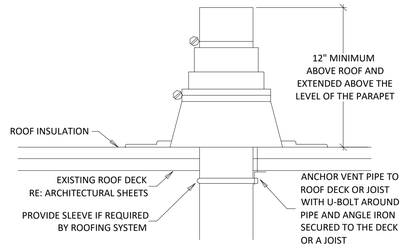
PROVIDE PIPE STANDS AS SHOWN FOR STEEL PIPE FROM 1/2" TO 1-1/2" DIAMETER. SUPPORT SPACING FOR PIPE SIZE: 1/2"=6'; 3/4"-1"=8'; 1 1/4" AND LARGER=10'; PROVIDE DECK PLATES ON ROOFING AND SET PIPE STAND FREE ON DECK PLATES. STACK PIPE STAND WHERE REQUIRED TO ELEVATE PIPING. INSTALL GAS PIPE TO ALLOW FOR EXPANSION AND CONTRACTION.

5 P101 ROOFTOP PIPING SUPPORT
N.T.S.



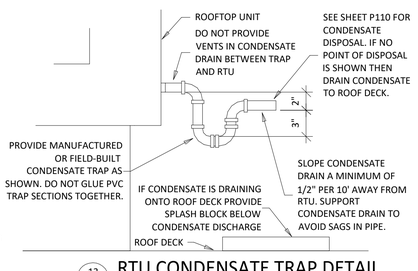
17 P101 GAS METER SECTION
N.T.S.





REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. FLASHING AND COUNTER FLASHING ARE TO BE COMPATIBLE WITH THE ROOFING SYSTEM.

3 P101 VENT THROUGH ROOF
N.T.S.

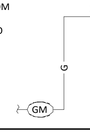


13 P101 RTU CONDENSATE TRAP DETAIL
N.T.S.

FUTURE CONNECTED GAS LOAD

FIXTURE	TAG	MBH	EQUIVALENT LENGTH FROM METER [FT]
WATER HEATER	DWH-1	199	50
WATER HEATER	DWH-2	199	50
FRYER	FB-1	95	85
GRIDDLE	GR-1	107	95
MAKEUP AIR UNIT	MAU-1	225	100
RICE COOKER	RC-1	35	90
RANGE	RN-1	192	95
KITCHEN ROOFTOP UNIT	RTU-1	180	50
DINING ROOM ROOFTOP UNIT	RTU-2	240	65
Grand total		1472	MAX: 100

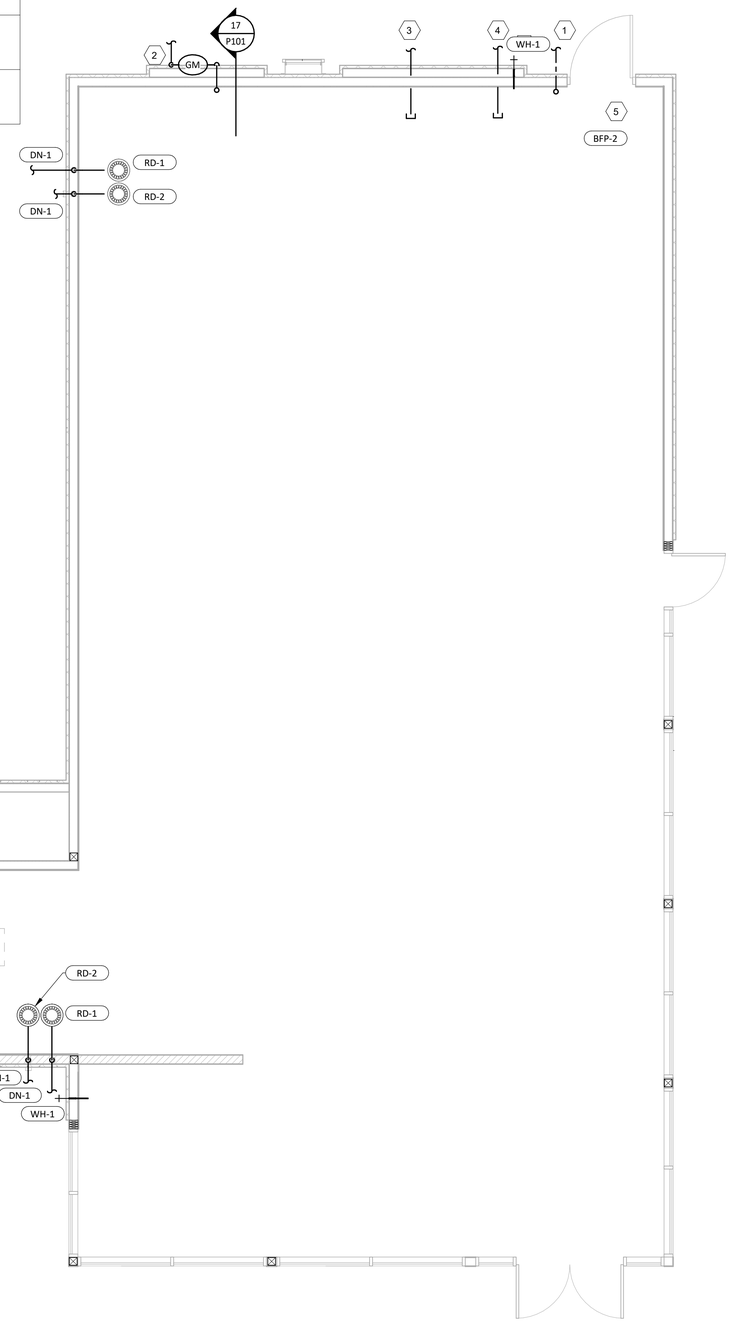
NOTES:
1. PRESSURE REQUIRED AFTER METER: 7" W.C.
2. DISTANCES ARE APPROXIMATE



3 P100 GAS DISTRIBUTION DIAGRAM
NOT TO SCALE

PLUMBING SHELL PLAN NOTES

1. SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 1-1/2" DOMESTIC WATER SERVICE.
2. PROVIDE NEW GAS METER. SEE CIVIL UTILITY PLAN FOR ON-SITE GAS ROUTING.
3. PROVIDE CAPPED 4" GREASE WASTE LINE AT THIS LOCATION WITH AN INVERT ELEVATION OF 48" BELOW FINISHED FLOOR. CONTRACTOR SHALL PROVIDE GT-1 1,500 GALLON CONCRETE GRAVITY GREASE INTERCEPTOR AND SAMPLING MANHOLE. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
4. PROVIDE CAPPED 4" SANITARY WASTE LINE AT THIS LOCATION WITH AN INVERT ELEVATION OF 48" BELOW FINISHED FLOOR. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
5. PROVIDE WATER SERVICE ENTRY PER DETAIL 16/P101. DOMESTIC WATER SYSTEM TO SUPPLY A MINIMUM OF 45 GALLONS PER MINUTE AT 60 PSI. IF PSI OVER 80 PSI CONTRACTOR SHALL SUPPLY A PRESSURE REDUCING VALVE . IF PRESSURE BELOW 60 PSI CONTRACTOR SHALL FURNISH AND INSTALL BOOSTER SYSTEM TO MEETING DOMESTIC WATER REQUIREMENTS. BOOSTER PUMP LOCATION SHALL BE COORDINATED WITH LANDLORD AND TENANT PRIOR TO INSTALLATION.



1 PLUMBING SHELL PLAN
SCALE: 1/4" = 1'-0"

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PERMIT - 05/30/2024

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Issue Record:

05/30/2024	COMBINE PERMIT SET
07/01/2024	REVISION 1

Revisions:

1	07/01/24	CITY COMMENTS
2	08/12/24	CONSTR. BULLETIN A

Drawn: AK
Checked: NH

Project No.: CMG5134

Contents:
PLUMBING SHELL PLAN

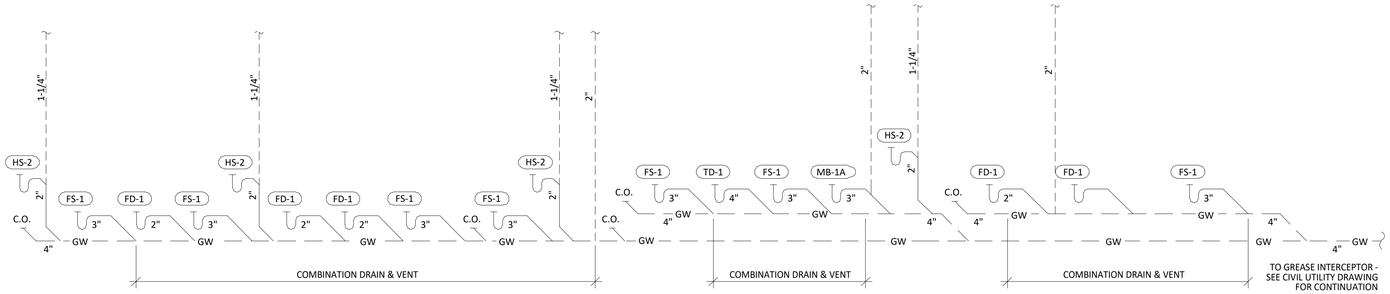
P101

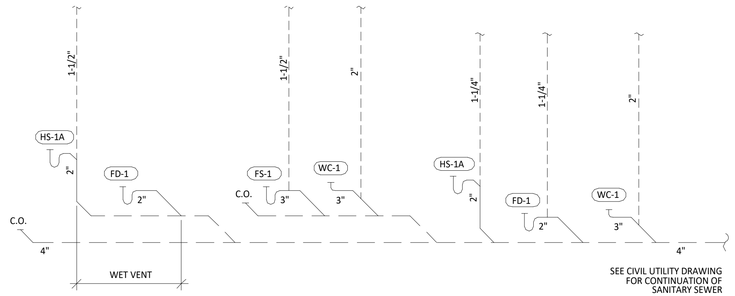
DRAINAGE FIXTURE UNITS FOR GREASE WASTE			
FIXTURE	DRAINAGE FIXTURE UNITS	NUMBER OF FIXTURES	TOTAL DRAINAGE FIXTURE UNITS
2" FLOOR DRAINS	3	4	12
3" FLOOR SINK	4	5	20
4" TRENCH DRAIN	5	1	5
MOP BASIN	3	1	3
HAND SINKS	2	4	8
	TOTAL DRAINAGE FIXTURE UNITS		48

GRAVITY GREASE INTERCEPTOR SIZING	
DFU'S	INTERCEPTOR VOLUME
8	500 GALLONS
21	750 GALLONS
36	1,000 GALLONS
90	1,250 GALLONS
172	1,500 GALLONS

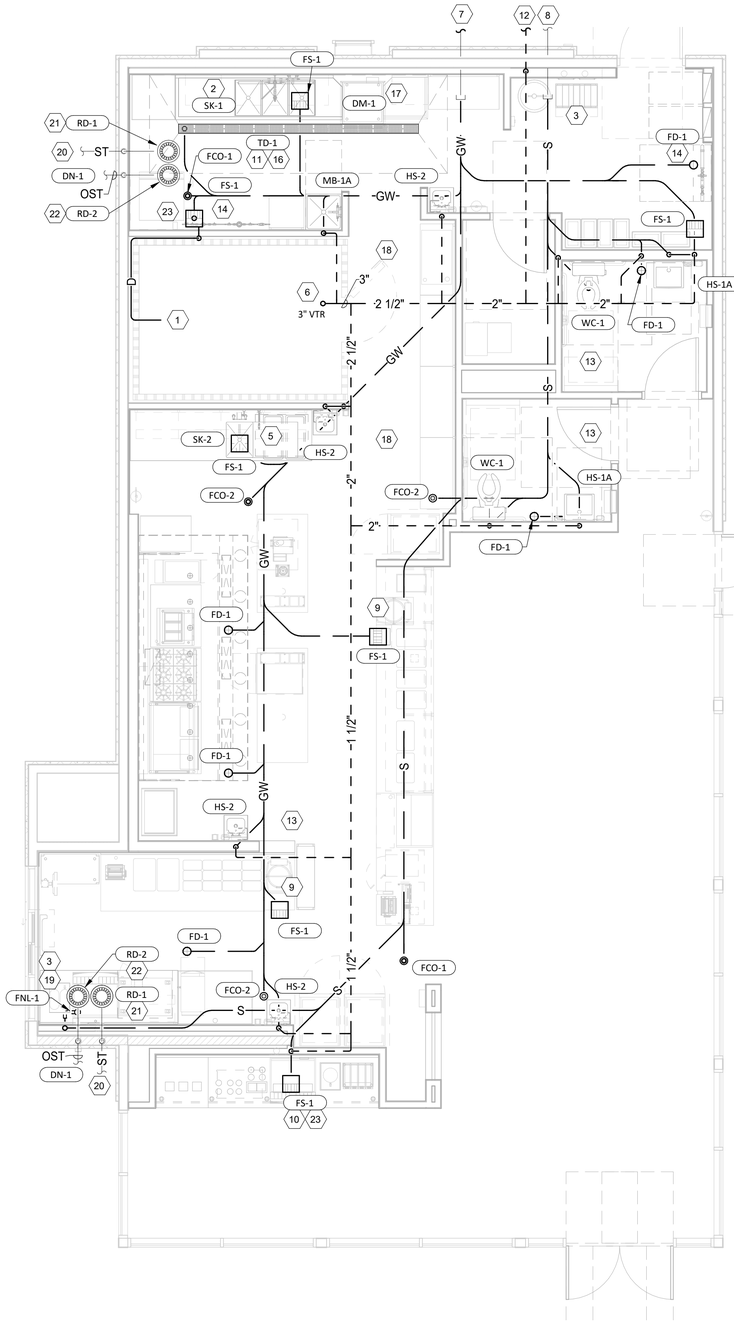
PLUMBING WASTE AND VENT PLAN NOTES

1. PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR SINK BELOW THE ICE MAKER AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP. MAKE FINAL CONNECTION TO EVAPORATOR INSIDE WALK-IN COOLER USING A UNION. CONDENSATE DRAIN SHOULD PENETRATE WALL BEHIND ICE MAKER AT 8" AFF AND BE SECURED TO FLOOR UNDER ICE MAKER.
2. PROVIDE DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAIL 2/P700.
3. COORDINATE ROUTING OF SODA BUNDLES WITH COCA-COLA TECHNICIAN FROM BAG-IN-BOX AREA TO EACH SODA FOUNTAIN. OTHER THAN WITHIN THE WALLS DOWN TO THE DRYER BOX THE SODA BUNDLE SHALL BE ROUTED OVERHEAD WITHOUT CONDUIT. COORDINATE SUPPORT AND ROUTING OF THE SODA LINE BUNDLES WITH COCA-COLA TECHNICIAN DURING ROUGH IN AND PROVIDE NECESSARY SUPPORTS. SEE ARCHITECTURAL DRAWINGS FOR SODA BUNDLE TERMINATION LOCATION AND PROVIDE TERMINATION PER DETAIL 12/P700.
4. NOT USED.
5. PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.
6. PROVIDE A 3" VENT THROUGH THE ROOF PER DETAIL 3/P700.
7. PROVIDE GREASE INTERCEPTOR GI-1. SEE CIVIL UTILITY PLAN FOR GI-1 LOCATIN AND FOR CONTINUATION OF 4" GREASE WASTE PIPE TO GI-1.
8. SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 4" SANITARY SEWER.
9. PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
10. PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP. HOLD TEA TRAY DRAIN AS HIGH AS POSSIBLE AND SECURE BELOW THE UTENSIL COUNTER.
11. TRIM TENCH DRAIN ENDS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION SO THAT GRATE FITS WITHOUT GAPS. INSTALL TRENCH DRAIN WITH SLIGHT POSITIVE SLOPE TOWARD THE DRAIN CONNECTION TO AVOID STANDING WATER IN TRENCH DRAIN.
12. PROVIDE 2" VENT TO GREASE INTERCEPTOR GI-1. SEE CIVIL UTILITY PLAN FOR GI-1 LOCATION.
13. DO NOT PROVIDE WALL CLEANOUTS ON TILE OR PUBLICALY-VISIBLE WALLS. IF A WALL CLEANOUT IS REQUIRED ON THESE SURFACE COORDINATE THE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER.
14. PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
15. PROVIDE DRAIN FROM WATER FILTER BFP TO FLOOR DRAIN CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
16. PROVIDE TRENCH DRAIN AS SHOWN PER DETAIL 15/P700.
17. INSTALL DRAIN HOSE FURNISHED WITH DISH MACHINE FROM DISH MACHINE OUTLET TO FLOOR SINK. HOLD DRAIN HOSE TIGHT TO WALL AND SECURE TO 3-COMP SINK DRAIN TO MAINTAIN AN AIR GAP AT THE FLOOR SINK.
18. PROVIDE CONDENSATE TRAP ON RTU PER DETAIL 13/P700.
19. PROVIDE INSULATED COPPER DRAIN LINES FOR THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN. ROUTE TEA TRAY AND SODA MACHINE DRAINS BEHIND THE SHELF AND COLD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
20. SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 4" STORM SEWER.
21. PROVIDE 3" STORM DRAIN CONDUCTOR FROM PRIMARY ROOF DRAIN RD-1 DOWN IN WALL TO 4" STORM DRAIN BELOW GRADE. INTERIOR HORIZONTAL STORM DRAIN CONDUCTORS SHALL BE SLOPED A MINIMUM OF 1/2" PER FOOT.
22. PROVIDE 3" STORM DRAIN CONDUCOR FROM SECONDARY ROOF DRAIN RD-2 TO DOWNSPOUT NOZZLE DN-1 MOUNTED AT 24" AFG. INTERIOR HORIZONAL STORM DRAIN CONDCUTORS SHALL BE SLOPED A MINIMUM OF 1/2" PER FOOT.
23. PROVIDE PVC DRAIN PIPES FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK. SECURE ICE MAKER DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.





2 P110 SANITARY WASTE & VENT DIAGRAM
NOT TO SCALE



1 P110 SANITARY WASTE & VENT PLAN
1/4" = 1'-0"

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Issue Record:

05/30/2024	COMBINE PERMIT SET
07/01/2024	REVISION 1

Revisions:

1	07/01/24	CITY COMMENTS

Drawn: AK
Checked: NH

Project No.
CMG5134

Contents:
PLUMBING PLAN
WASTE & VENT

P110

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	CONNECTION SIZE			WATER SUPPLY FIXTURE UNITS			DRAINAGE FIXTURE UNITS
				MANUFACTURER	MODEL		CW	HW	WASTE	CW	HW	TOTAL	
BFP-1	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	40-200-T2S	STAINLESS STEEL REDUCED PRESSURE ZONE ASSEMBLIES LEAD FREE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE (OR APPROVED EQUAL)	1/2"			0	0	0	
BFP-2	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-207	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE AND AIR GAP FITTING	1 1/2"			0	0	0	
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	KES	GC	SEE ARCH	--	CHEMICAL SANITIZING DISH MACHINE WITH INTEGRAL ELECTRIC BOOSTER HEATER AND PUMPED OUTLET	0"	3/4"	5/8"	0	3	3	7
DN-1	DOWNSPOUT NOZZLE	GC	GC	WATTS	RD-940	CAST NICKEL BRONZE COW'S TONGUE DOWNSPOUT NOZZLE			3"				
ET-1	EXPANSION TANK	GC	GC	AMTROL	ST-5	2 GALLON CAPACITY	3/4"			0		0	
FB-1	GAS FRYER	KES	GC	SEE ARCH	--								
FCO-1	FLOOR CLEANOUT (3")	GC	GC	SIOUX CHIEF	852-3PNR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)			3"				0
FCO-2	FLOOR CLEANOUT (4")	GC	GC	SIOUX CHIEF	852-4PNR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)			4"				0
FD-1	FLOOR DRAIN	GC	GC	SIOUX CHIEF	842-2-PNR	ADJUSTABLE FLOOR DRAIN WITH PVC BODY, ROUND POLISHED METAL RING AND STRAINER, AND TRAP PRIMER PORT	1/2"		2"				2
FNL-1	FUNNEL DRAIN	GC	GC	JAY R. SMITH	3823T	FUNNEL DRAIN WITH CAST BRONZE BODY AND THREADED OUTLET			2"				2
FS-1	FLOOR SINK	GC	GC	SIOUX CHIEF	861-3PU2	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC GRATE			3"				5
GI-1	GREASE INTERCEPTOR	GC	GC	CUSTOM	--	1,500 GALLON PRECAST GREASE INTERCEPTOR			4"				0
GR-1	GAS GRIDDLE	KES	GC	SEE ARCH	--								
HB-1	CHEMICAL DISPENSER HOSE BIB	KES	GC	SEE ARCH	--	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT-OFF STOP AND CHECK VALVE. FAUCET HAS FEMALE NPT INLETS.	1/2"	1/2"		2.25	2.25	3	
HB-2	VEGETABLE WASH HOSE BIB	KES	GC	SEE ARCH	--	SILL FAUCET WITH NPT FEMALE INLET	1/2"			1.5		1.5	
HS-1A	RESTROOM HAND SINK	GC	GC	KOHLER	K-2084	ADA-ACCESSIBLE, WALL-MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1231-D FOR BACK-TO-BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL.			2"				1
HS-1B	RESTROOM HAND SINK FAUCET	KES	GC	SEE ARCH	--	PLUG-IN AUTOMATIC FAUCET WITH 0.5 GPM AERATOR AND THERMOSTATIC MIXING VALVE. ADJUST FAUCET CONTROLS FOR 10 SECOND SHUTOFF DELAY AND 30 SECOND TIME-OUT DELAY.	1/2"	1/2"		1.5	1.5	2	
HS-2	KITCHEN HAND SINK	KES	GC	SEE ARCH	--	STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET AND BACKSPLASH MOUNTED FAUCET WITH SWIVEL GOOSENECK	1/2"	1/2"	2"	1.5	1.5	2	1
IM-1	ICE MAKER - BOH	KES	KES	SEE ARCH	--	BACK OF HOUSE ICE MAKER WITH BIN	1/2"			1		1	
IM-2	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MACHINE	1/2"			1		1	
MB-1A	MOP BASIN	GC	GC	FIAT	MSB2424	PROVIDE 24"x24"x10" MOLDED-STONE MOP BASIN. INSTALL MOP BASIN IN A BED OF GROUT SO THERE ARE NO VOIDS BETWEEN THE MOP BASIN AND THE SLAB.			3"				2
MB-1B	MOP SINK FAUCET	KES	GC	SEE ARCH	--	SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, WALL BRACE, AND NPT FEMALE INLETS	1/2"	1/2"		2.25	2.25	3	
PF-1	SPEED FILL FAUCET	KES	GC	SEE ARCH	--	WALL-MOUNTED POT FILLER W/ SELF-CLOSING FILLER VALVE AND NPT FEMALE INLET	3/8"			1.5		1.5	
RC-1	RICE COOKER	KES	GC	SEE ARCH	--								
RD-1	ROOF DRAIN (PRIMARY)	GC	GC	WATTS	RD-103	EPOXY COATED CAST IRON ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL GRAVEL STOP, SELF-LOCKING POLYETHYLENE DOME, AND NO HUB OUTLET			3"				
RD-2	ROOF DRAIN (OVERFLOW)	GC	GC	WATTS	RD-103-W	EPOXY COATED CAST IRON OVERFLOW ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL 4 IN. (102MM) HIGH INTERNAL STANDPIPE, SELF-LOCKING POLYTHYLENE DOME, AND NO HUB OUTLET			3"				
RH-1	FREEZE PROOF ROOF HYDRANT	GC	GC	HOEPTNER	2131R	AUTOMATIC DRAINING, FREEZELESS ROOF HYDRANT WITH ANTI-SIPHON VACUUM BREAKER HOEPTNER PRODUCTS (408) 847-7615	3/4"			1		1	
RN-1	6 BURNER RANGE	KES	GC	SEE ARCH	--								
SC-1	BAG-IN-BOX SODA RACK WITH CARBONATORS	SPS	SPS	SEE ARCH	--	SODA CARBONATOR(S) SHALL HAVE AN INTEGRAL ASSE 1022-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.	1/2"			1		1	
SK-1	THREE COMPARTMENT SINK	KES	GC	SEE ARCH	--	THREE-COMPARTMENT WARE-WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD-ON FAUCET	1/2"	1/2"	2"	3	3	4	0
SK-2	PREP SINK	KES	GC	SEE ARCH	--	STAINLESS STEEL PREP TABLE WITH INTEGRAL PREP SINK. FURNISHED WITH "BIG FLO" FAUCET	3/4"	3/4"	2"	3	3	4	0
TD-1	TRENCH DRAIN	GC	GC	ZURN	Z886 8601 8602	6" X 160" HDPE TRENCH DRAIN (SLOPED FROM 3.50" TO 4.70") WITH (2) CLOSED END CAPS, (1) 4" NO-HUB BOTTOM OUTLET, AND CLASS-A HEEL-PROOF POLYETHYLENE GRATES. SEE DETAIL ON SHEET P700 FOR REDUCTION TO 2" DRAIN CONNECTION.			2"				2
TP-2	TRAP PRIMER (TWO FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P2-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	1/2"			0		0	
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P1-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	1/2"			0		0	
WC-1	WATER CLOSET	GC	GC	KOHLER	K-3519 W/ SEAT K-4666-C	WHITE HIGHLINE 1.0 GPF, 17-1/8"-HIGH, ADA ACCESSIBLE, PRESSURE ASSIST WATER CLOSET WITH OPEN-FRONT SEAT. INSTALL TRIP LEVER ON THE TANK TO THE OPEN SIDE OF THE STALL (ADD -RA TO THE MODEL #FOR RIGHT HAND TRIP LEVER).	1/2"		3"	2		2	4
WH-1	FREEZE PROOF WALL HYDRANT	GC	GC	WOODFORD	MODEL 65	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER. PROVIDE WITH STEM LONG ENOUGH TO REACH INSIDE THE THERMAL ENVELOPE OF THE BUILDING.	3/4"			1		1	

WATER HEATER SCHEDULE

TAG	DESCRIPTION	NATURAL GAS		ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		INPUT	CONNECTION SIZE	FLA	V/P/H			MANUFACTURER	MODEL	
DWH-1	WATER HEATER (GAS TANKLESS)	199,000 Btu/h	3/4"		120/1/60	GC	GC	NAVIEN	NPE-240A2	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 96% PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVIEN AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVIEN.COM TO LOCATE AUTHORIZED DISTRIBUTOR).
DWH-2	WATER HEATER (GAS TANKLESS)	199,000 Btu/h	3/4"		120/1/60	GC	GC	NAVIEN	NPE-240A2	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 96% PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVIEN AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVIEN.COM TO LOCATE AUTHORIZED DISTRIBUTOR).

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PERMIT - 05/30/2024

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Issue Record:

05/30/2024	COMBINE PERMIT SET
07/01/2024	REVISION 1

Revisions:

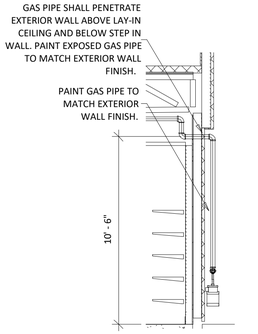
1	07/01/24	CITY COMMENTS

Drawn: AK
Checked: NH

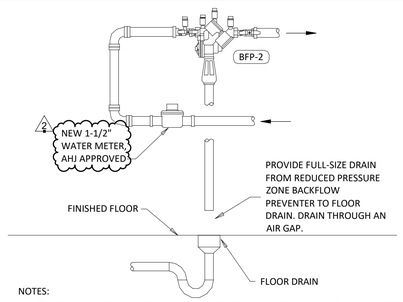
Project No.
CMG5134

Contents:
PLUMBING SCHEDULES

P600

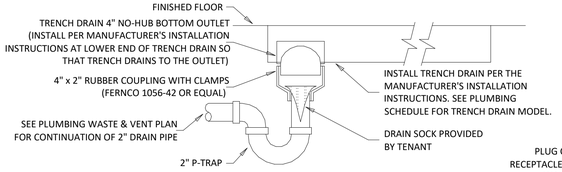


17 P700 GAS METER SECTION
N.T.S.

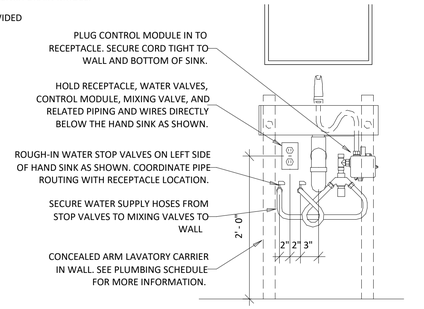


NOTES:
MAKE NECESSARY ARRANGEMENTS WITH WATER COMPANY TO INSTALL NEW WATER SERVICE PER LOCAL CODES & WATER COMPANY REGULATIONS AND PAY ALL CHARGES. SERVICE SHALL BE SIZED PER THE PLUMBING PLAN & INSTALLED IN STRICT ACCORDANCE OF WATER COMPANY REGULATIONS. ANCHOR METER, BACKFLOW PREVENTER, AND PIPING TO THE WALL OR THE FLOOR. CERTIFY THE BACKFLOW PREVENTER PER THE WATER COMPANY'S REQUIREMENTS.

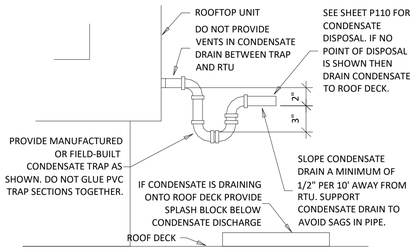
16 P700 WATER SERVICE ENTRY DETAIL
N.T.S.



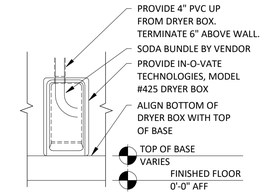
15 P700 TRENCH DRAIN DETAIL
N.T.S.



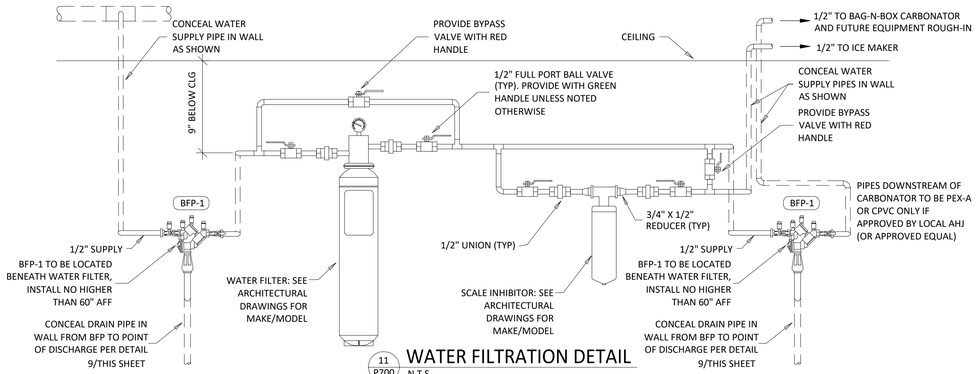
14 P700 RESTROOM HAND SINK DETAIL
N.T.S.



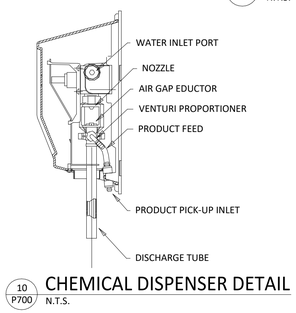
13 P700 RTU CONDENSATE TRAP DETAIL
N.T.S.



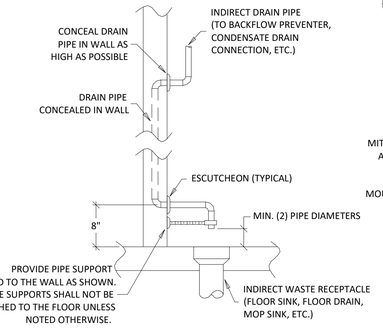
12 P700 SODA TERMINATION DETAIL
N.T.S.



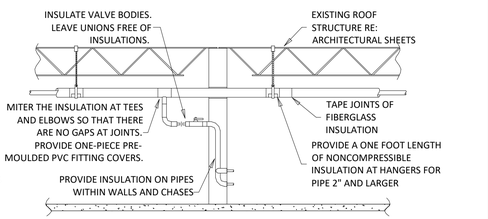
11 P700 WATER FILTRATION DETAIL
N.T.S.



10 P700 CHEMICAL DISPENSER DETAIL
N.T.S.

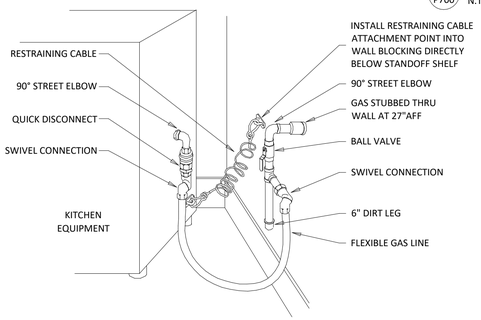


9 P700 INDIRECT WASTE PIPING DETAIL
N.T.S.



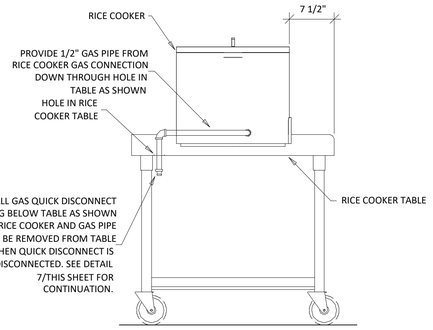
PROVIDE INSULATION ON INTERIOR COLD AND HOT WATER PIPING, CONDENSATE DRAIN PIPE, AND STORM PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD WATER AND CONDENSATE PIPING BY MEANS OF SEALANT AND TAPE. FLAME SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC. PROVIDE PREFORMED GLASS FIBER PIPE INSULATION WITH PRE-MOLDED PVC JACKETS, SLEEVES, AND FITTING COVERS ON EXPOSED WATER PIPE SO THAT EXPOSED WATER PIPE IS COVERED ENTIRELY WITH PVC INSULATION COVERS.

8 P700 PIPE INSULATION DETAIL
N.T.S.

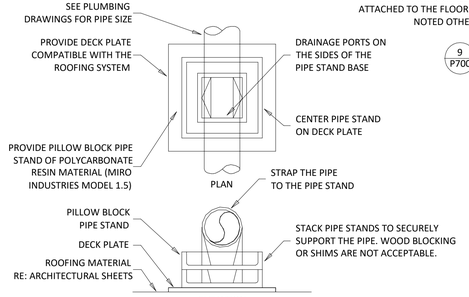


ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS/JOINTS IN ANY CONCEALED, UNSLEEVED LOCATION.

7 P700 KITCHEN GAS EQUIPMENT DETAIL
N.T.S.

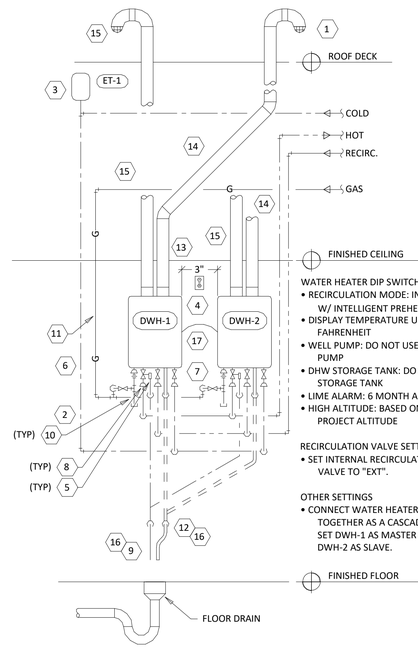


6 P700 RICE COOKER GAS CONNECTION DETAIL
N.T.S.



PROVIDE PIPE STANDS AS SHOWN FOR STEEL PIPE FROM 1/2" TO 1-1/2" DIAMETER. SUPPORT SPACING FOR PIPE SIZE: 1/2"=6'; 3/4"-1"=8'; 1 1/4" AND LARGER=10'; PROVIDE DECK PLATES ON ROOFING AND SET PIPE STAND FREE ON DECK PLATES. STACK PIPE STAND WHERE REQUIRED TO ELEVATE PIPING. INSTALL GAS PIPE TO ALLOW FOR EXPANSION AND CONTRACTION.

5 P700 ROOFTOP PIPING SUPPORT
N.T.S.



WATER HEATER DIP SWITCH SETTINGS
- RECIRCULATION MODE: INTERNAL W/ INTELLIGENT PREHEATING
- DISPLAY TEMPERATURE UNIT: FAHRENHEIT
- WELL PUMP: DO NOT USE WELL PUMP
- DHW STORAGE TANK: DO NOT USE STORAGE TANK
- LIME ALARM: 6 MONTH ALERT
- HIGH ALTITUDE: BASED ON PROJECT ALTITUDE

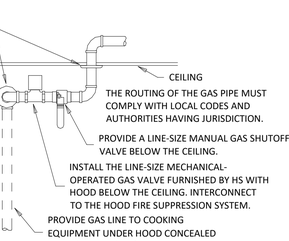
RECIRCULATION VALVE SETTING
- SET INTERNAL RECIRCULATION VALVE TO "EXT".

OTHER SETTINGS
- CONNECT WATER HEATERS TOGETHER AS A CASCADE SYSTEM. SET DWH-1 AS MASTER AND DWH-2 AS SLAVE.

WATER HEATER DETAIL NOTES
1. PROVIDE TWO 90° ELBOWS AND A SCREEN FOR THE FLUE TERMINATION THROUGH THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. ROUGH-IN COLD, HOT, AND RECIRC PIPES AT 64" AND GAS PIPE AT 61" BELOW THE FINISHED CEILING.
3. PROVIDE EXPANSION TANK ET-1 AS SHOWN. SUPPORT TANK FROM WALL OR STRUCTURE ABOVE.
4. PROVIDE WATER HEATER RECEPTACLE WITHIN 12" OF THE FINISHED CEILING. FASTEN CORD TIGHT TO THE WALL.
5. PROVIDE PRESSURE RELIEF VALVE. PIPE PRESSURE RELIEF VALVE TO POINT OF DISCHARGE.
6. CONCEAL WATER PIPING WITHIN THE WALL AS SHOWN. INSULATE EXPOSED AND CONCEALED WATER PIPING TO WITHIN 3" OF THE WATER HEATER.
7. INTALL "PLUMB EASY VALVE SET" EXPOSED AT THE COLD AND HOT WATER CONNECTIONS TO THE WATER HEATER AS SHOWN.
8. IF THE PIPE SIZES AS SHOWN ON THE PLUMBING PLANS IS LARGER THAN THE WATER HEATER CONNECTIONS SIZES, PROVIDE REDUCERS WITHIN 6" OF THE WATER HEATER.
9. PIPE PRESSURE RELIEF VALVE DISCHARGE AND FLUE CONDENSATE DRAIN TO THE POINT OF DISCHARGE. DRAIN THROUGH AN AIR GAP.
10. PROVIDE AN EXPOSED DRIP LEG AND LINE-SIZE GAS VALVE ON THE GAS SERVICE TO THE WATER HEATER.
11. CONCEAL GAS PIPING IN THE WALL AS SHOWN.
12. PROVIDE 1/2" PVC PIPE FROM THE FLUE CONDENSATE CONNECTION TO THE FLOOR DRAIN OR MOP BASIN. DRAIN THROUGH AN AIR GAP.
13. INSTALL THE TANKLESS WATER HEATER WITH THE TOP OF THE WATER HEATER WITHIN 12" OF THE FINISHED CEILING.
14. PROVIDE A 3"Ø PVC PIPE FROM THE TANKLESS WATER HEATER TO THE POINT OF DISCHARGE. SLOPE HORIZONTAL SECTION OF THE FLUE 1/4" PER FOOT TOWARDS THE WATER HEATER.
15. PROVIDE A SCREENED AIR INTAKE WITH TWO 90° ELBOWS ABOVE THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
16. CONCEAL DRAIN LINES IN WALL PER DETAIL 9/THIS SHEET.
17. PROVIDE COMMUNICATION CABLE CONCEALED IN WALL BETWEEN WATER HEATERS.
18. IF WATER HEATERS ARE INSTALLED WITH A COMMON VENT SYSTEM THEN PROVIDE THE NAVIEN COMMON VENT COLLAR KIT WITH BACK-DRAFT DAMPER PER THE MANUFACTURER'S INSTALLATION MANUAL.

WATER HEATER GENERAL NOTES
A. CLEAN INLET STRAINERS AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO TURNOVER OF THE BUILDING TO THE TENANT.
B. INSTALL PIPING WITH AS FEW ELBOWS AS POSSIBLE.
C. MAINTAIN REQUIRED CLEARANCE TO COMBUSTIBLE MATERIALS.
D. ADJUST WATER HEATER TO A SETPOINT OF 120° F.

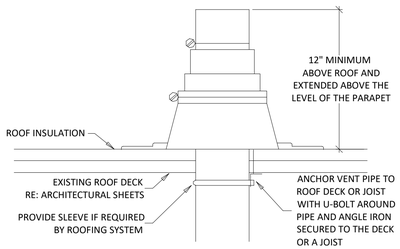
1 P700 WATER HEATER DETAIL
N.T.S.



SEQUENCE OF OPERATIONS
NORMAL MODE:
- DURING NORMAL OPERATION THE GAS SHUT-OFF VALVE SHALL BE OPEN.

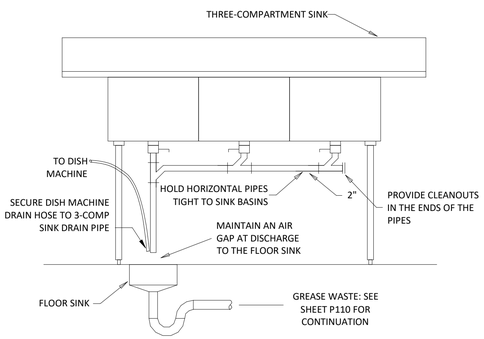
EMERGENCY MODE:
- UPON ACTUATION OF THE HOOD FIRE SUPPRESSION SYSTEM THE GAS SHUT-OFF VALVE SHALL CLOSE.

4 P700 KITCHEN GAS SHUTOFF DETAIL
N.T.S.



REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. FLASHING AND COUNTER FLASHING ARE TO BE COMPATIBLE WITH THE ROOFING SYSTEM.

3 P700 VENT THROUGH ROOF
N.T.S.



2 P700 WARE-WASHING SINK DETAIL
N.T.S.

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CERTIFICATE OF AUTHORITY NO. F-20080

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MATTHEW RICHARD CASE
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Issue Record:

05/30/2024	COMBINE PERMIT SET
07/01/2024	REVISION 1

Revisions:

1	07/01/24	CITY COMMENTS
2	08/12/24	CONSTR. BULLETIN A

Drawn: AK
Checked: NH

Project No.
CMG5134

Contents:
PLUMBING DETAILS

P700

ELECTRICAL SPECIFICATIONS

SECTION 16011 TEMPORARY & PERMANENT ELECTRICAL SERVICE PART 1 GENERAL

1. DEFINITIONS
   - A. GFCI: Ground fault current interrupter.
   - B. RMS: Root Mean Square
   - C. SPDT: Single Pole, Double Throw
2. USE CHARGES

B. Permanent Service: Coordinate with building owner and utility company to establish permanent service upon completion of the project. Contractor shall pay for all permits, aid-to-construction charges, and related fees associated with the new service.

1.3 NOTIFICATION

A. Coordinate with owner to provide 72 hour written notification to other tenants of any power interruptions. Notification shall state the estimated time and duration of the electrical outage.

1. QUALITY ASSURANCE
   - A. Standards: Comply with ANSI A10.6, NECA's "Temporary Electrical Facilities," and NFPA 241.
     1. Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with trade regulations and union jurisdictions.
     2. Electric Service: Comply with NECA, NEMA and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
     3. Comply with OSHA standards and regulations.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Electrical Outlets: Properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-V plugs into higher-voltage outlets; equipped with ground-fault circuit interrupters, reset button, and pilot light.
- B. Power Distribution System Circuits: Where permitted and overhead and exposed for surveillance, wiring circuits, not exceeding 12S-V ac, 20-A rating, and lighting circuits may be nonmetallic sheathed cable.
- C. Main panelboard with disconnect.
- D. Temporary lighting.
- E. 120 volt receptacles with overcurrent protection.
- F. Enclosures. NEMA AB 1 and NEMA KS 1 to meet environmental conditions of installed location.

1. Outdoor Locations: NEMA 250, Type 3R.

G. All material shall be UL Listed.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, and overload-protected disconnecting means.
  1. Install power distribution wiring overhead and rise vertically where least exposed to damage.
- B. Electric Distribution: Provide receptacle outlets adequate for connection of power tools and equipment.
  1. Provide waterproof connectors to connect separate lengths of electrical power cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio.
  2. Provide metal conduit, tubing, or metallic cable for wiring exposed to possible damage. Provide rigid steel conduits for wiring exposed on grades, floors, decks, or other traffic areas.
  3. Provide metal conduit enclosures or boxes for wiring devices.
  4. Provide 4-gang outlets, spaced so 1 DO-foot (30-m) extension cord can reach each area for power hand tools and task lighting. Provide a separate 125-V ac, 20-A circuit for each outlet.
- C. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction

2. Provide one 100-W incandescent lamp (or equivalent) every 50 feet (15 m) in traffic areas.
3. Install exterior-yard site lighting that will provide adequate illumination for construction operations, parking and traffic conditions, and signage visibility when the Work is being performed.

END OF SECTION 16011

SECTION 16060 - GROUNDING AND BONDING PART 1 - GENERAL

1. SUMMARY
   - A. This Section includes grounding of electrical systems and equipment. Grounding requirements specified in this Section may be supplemented by special requirements of systems described in other Sections.
2. QUALITY ASSURANCE
   - A. Testing Agency Qualifications: Testing agency as defined by OSHA in 29 CFR 1910.7 or a member company of the International Electrical Testing Association and that is acceptable to authorities having jurisdiction.
     1. Testing Agency's Field Supervisor: Person currently certified by the International Electrical Testing Association to supervise on-site testing specified in Part 3.
   - B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
     1. Comply with UL 467.

PART 2 – PRODUCTS

2.1 GROUNDING CONDUCTORS

1. For insulated conductors, comply with Division 16 Section "Wiring Methods."
2. Material: Copper.
3. Equipment Grounding Conductors: Insulated with green-colored insulation.
4. Grounding Electrode Conductors: Stranded cable.
5. Bare Copper Conductors: Comply with the following:
6. Solid Conductors: ASTM B 3.
7. Assembly of Stranded Conductors: ASTM B 8.

2.2 CONNECTOR PRODUCTS

A. Comply with IEEE 837 and UL 467; listed for use for specific types, sizes, and combinations of conductors and connected items.

PART 3 - EXECUTION

3.1

Revisions:

1. APPLICATION
   - A. Use only copper conductors.
   - B. In raceways, use insulated equipment grounding conductors.
   - C. Equipment Grounding Conductor Terminations: Use bolted pressure clamps.
   - D. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated.
     1. Use insulated spacer; space 1 inch from wall and support from wall 6 inches above finished floor, unless otherwise indicated.
     2. At doors, route the bus up to the top of the door frame, across the top of the doorway, and down to the specified height above the floor.
2. EQUIPMENT GROUNDING CONDUCTORS
   - A. Comply with NFPA 70, Article 250, for types, sizes, and quantities of equipment grounding conductors, unless specific types, larger sizes, or more conductors than required by NFPA 70 are indicated.
3. INSTALLATION
   - A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.
4. CONNECTIONS
   - A. General: Make connections so galvanic action or electrolysis possibility is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
   - B. Equipment Grounding Conductor Terminations: For No. 8 AWG and larger, use pressure-type grounding lugs. No. 10 AWG and smaller grounding conductors may be terminated with winged pressure-type connectors.
   - C. Tighten screws and bolts for grounding and bonding connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A.
   - D. Compression-Type Connections: Use hydraulic compression tools to provide correct circumferential pressure for compression connectors. Use tools and dies recommended by connector manufacturer. Provide embossing die code or other standard method to make a visible indication that a connector has been adequately compressed on grounding conductor.

END OF SECTION 16060

SECTION 16100 - WIRING METHODS PART 1 - GENERAL

1. SECTION REQUIREMENTS
   - A. Summary: Building wire and cable and associated splices, connectors, and terminations for wiring systems rated 600 V and less, and twisted-pair cable; and raceways and boxes.

PART 2 - PRODUCTS

2.1 WIRES AND CABLES

- A. Connectors and Splices: Wiring connectors of size, ampacity rating, material, and type and class for application and for service indicated.

1. RACEWAYS

2.3 ENCLOSURES

- A. Hinged-Cover Enclosures: NEMA 250, steel enclosure with continuous hinge cover and flush latch. Finish inside and out with manufacturer's standard enamel.
- B. Cabinets: NEMA 250, Type 1, unless otherwise indicated. PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install wires and cables according to the NECA's "Standard of Installation.
- B. Wiring at Outlets: Install with at least 12 inches of slack conductor at each outlet.
- C. Conceal wiring, unless otherwise indicated, within finished walls, ceilings, and floors.
- D. Boxes and Enclosures: In damp or wet locations use NEMA 250, Type 4, stainless steel.
- E. Use raceway fittings compatible with raceway and suitable for use and location. For intermediate metal conduit, use threaded rigid steel conduit fittings, unless otherwise indicated.
- F. Raceways Embedded in Slabs: Install in middle third of the slab thickness where practical, and leave at least 1 -inch concrete cover.
- G. Install exposed raceways parallel to or at right angles to nearby surfaces or structural members, and follow the surface contours as much as practical.
- H. Join raceways with fittings designed and approved for the purpose and make joints tight. Use bonding bushings or wedges at connections subject to vibration. Use bonding jumpers where joints cannot be made tight. Use insulating bushings to protect conductors.
- I. Install pull wires in empty raceways. Use No. 14 AWG zinc-coated steel or monofilament plastic line having not less than 200-lb tensile strength. Leave not less than 18 inches of slack at each end of the pull wire.
- J. Install raceway sealing fittings where required by the NEC and at wiring entrances to refrigerated spaces. Locate at suitable, approved, accessible locations and fill them with UL-listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces.
- K. Stub-up Connections for Equipment: Extend conductors to equipment with rigid metal conduit; flexible metal conduit may be used 3 inches above the floor.
- L. Install a separate green ground conductor in surface metal raceway from the junction box supplying the raceway to receptacle and fixture ground terminals.

3.2 IDENTIFICATION MATERIALS AND DEVICES

- A. Install at locations for most convenient viewing without interference with operation and maintenance of equipment.
- B. Coordinate names, abbreviations, colors, and other designations used for electrical identification with corresponding designations indicated in the Contract Documents or required by codes and standards. Use consistent designations throughout Project.
- C. Identify raceways and cables with color banding as follows:
  1. Bands: Pretensioned, snap-around, colored plastic sleeves or colored encircling conduit, and place adjacent bands of two-color markings in contact, side by side.
  2. Band Locations: At changes in direction, at penetrations of walls and floors, at 50-foot maximum intervals in straight runs, and at 25-foot maximum intervals in congested areas.
  3. Colors: As follows:
     a. Telecommunication System: Green and yellow.
- D. Color-code System secondary service, feeder, and branch-circuit conductors throughout the secondary electrical system as follows:

	208V	480V
Phase A:	Black	Brown
Phase B:	Red	Orange
Phase C:	Blue	Yellow
Neutral:	White	Gray
Ground:	Green	Green

END OF SECTION 16100

SECTION 16140 - WIRING DEVICES PART 1 - GENERAL

1. SECTION REQUIREMENTS
   - A. Submittals: None.
   - B. Comply with NEMA WD 1.
   - C. Comply with NFPA 70. PART 2 - PRODUCTS

2.1 DEVICES

- A. General: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- B. Color: Per Material Schedule on sheet E010.
- C. Receptacles: Heavy- Duty grade, NEMA WD6, Configuration 5-20R unless otherwise indicated.
- D. Ground-Fault Circuit Interrupter Receptacles: integral duplex receptacle; for installation in box without an adapter. Feed-through type, with a 2-3/4-inch- deep outlet
- E. Isolated-Ground Receptacles: Equipment grounding contacts connected only to the green grounding screw terminal of the device with inherent electrical isolation from mounting strap.

A. Snap Switches: Heavy-duty, quiet type.
B. Wall Plate: Per Material Schedule on sheet E010.
C. Floor Service Fittings: Modular, above-floor, dual-service units suitable for wiring method used.
PART 3 – EXECUTION

3.1 INSTALLATION

- A. Install devices and assemblies plumb and secure.
- B. Mount devices flush with long dimension vertical unless otherwise indicated.
- C. Protect devices and assemblies during painting.
- D. Install wall plates when painting is complete and paint is cured.

END OF SECTION 16140

SECTION 16442 - PANELBOARDS PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: None.
B. Comply with NFPA 70.
C. Comply with NEMA PB 1. PART 2 - PRODUCTS

2.1 PANELBOARDS AND LOAD CENTERS

- A. Manufacturers: Subject to compliance with requirement, provide products by one of the following:
  1. Panelboards, Overcurrent Protective Devices, Controllers, Contactors, and Accessories:
     a. Square D Co.
     b. Eaton Corp.; Cutler-Hammer Products.
     c. General Electric Co.; Electrical Distribution & Control Div.
     d. Siemens Energy & Automation.
- B. Recessed, NEMA PB 1, Type 1.
  1. Load Center Capacity: as shown on drawings.
  2. Front: Secured to box with concealed trim clamps.
  3. Doors: With concealed hinges, flush catches, and tumbler locks, all keyed alike.
  4. Bus: Hard drawn copper of 98 percent conductivity.
- C. Molded-Case Circuit Breakers: NEMA AB 1, plug-in type, Single-handle for multipole circuit breakers. Appropriate for application, including Type SWD for repetitive switching lighting loads and Type HACR for heating, air-conditioning, and refrigerating equipment.
- D. Contactors: NEMA ICS 2, Class A combination contactors.
- D. PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install panelboards and accessory items according to NEMA PB 1.1. Provide typed, permanently-mounted English and Spanish circuit directories showing the panel schedules as installed in each panelboard.
- B. Mounting Heights: Top of trim 74 inches above finished floor, unless otherwise indicated.
- C. Future Circuit Provisions at Flush Panel boards: Stub four empty 3/4-inch conduits from panelboard into accessible or designated ceiling space.
- D. Wiring in Panelboard Gutters: Arrange conductors into groups, bundle and wrap with wire ties according to NEC guidelines
- E. Tighten electrical connectors and terminals, including grounding connections, according to manufacturer's published torque-tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A.
- F. Perform visual and mechanical inspections and electrical tests stated In NETA ATS.

END OF SECTION 16442

SECTION 16500 - LIGHTING PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: None.
B. Fixtures, Emergency Lighting Units, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
C. Coordinate ceiling-mounted luminaires with ceiling construction, mechanical work, and security and fire-prevention features mounted In ceiling space and on ceiling.

PART 2 - PRODUCTS

2.1 FIXTURES AND FIXTURE COMPONENTS, GENERAL

. C. Lenses, Diffusers, Covers, and Globes: 100 percent virgin acrylic plastic or annealed crystal glass, unless otherwise indicated

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Set units level, plumb, and square with ceiling and walls, and secure.
- B. Support for Recessed and Semi-recessed Grid-Type Fluorescent Fixtures: Install ceiling support system rods or wires at a minimum of 4 rods or wires for each fixture, located not more than 6 inches from fixture corners.
- C. Support for Suspended Fixtures: Support according to manufacturers' recommendations.
- D. Lamping: Where specific lamp designations are not indicated, lamp units according to manufacturer's written instructions.

END OF SECTION 16500

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPT
IG	ISOLATED GROUND
JB	JUNCTION BOX
NL	NIGHT LIGHT
S	SURFACE MOUNTED
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF
CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

GENERAL NOTES:

1. GENERAL NOTES APPLY TO ELECTRICAL SHEETS.
2. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE ELECTRICAL CODE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE SHEET G000 FOR THE PREVAILING CODES.
3. WIRING SHALL BE (2)#12, #12 G IN 3/4" C UNLESS NOTED OTHERWISE.
4. INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.
5. CIRCUIT EMERGENCY LIGHTS, ILLUMINATED EXIT SIGNS, AND NIGHT LIGHTS AHEAD OF LOCAL SWITCHING.
6. INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 18" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.
7. INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.
8. PROVIDE 1" CONDUIT WITH PULL STRING FROM EACH J-BOX FOR TELEPHONE OR DATA JACKS TO ABOVE OFFICE CEILING. SEE MATERIAL SCHEDULE FOR ALLOWABLE CONDUIT MATERIALS. PROVIDE CONDUITS WITH MINIMAL ELBOWS AND TERMINATE CONDUITS ABOVE OFFICE CEILING WITH CONDUIT BUSHING.
9. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSIONS, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
10. DIMENSIONS SHOWN IN ELECTRICAL ELEVATIONS ARE FROM THE WALL FRAMING UNLESS NOTED OTHERWISE.
11. PROVIDE LABELING CALLED FOR IN THE ELECTRICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING).

ELECTRICAL SYMBOL

CONDUIT CONCEALED ABOVE THE CEILING, IN WALL OR IN A RACEWAY

CONDUIT CONCEALED BELOW THE SLAB

A-23 → HOMERUN TO PANELBOARD
CIRCUIT NUMBER SHOWN

① PLAN NOTE:
SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING

DISCONNECT SWITCH:
X = SWITCH RATING
Y = FUSE SIZE (NF = NON-FUSED)
Z = NUMBER OF POLES

Ⓙ JUNCTION BOX

ELECTRICAL PANELBOARD

$ GENERAL PURPOSE 1-POLE SWITCH

$M MANUAL STARTER WITH PILOT LIGHT

$OS OCCUPANCY SENSOR ACTIVATED WALL SWITCH

$D WALL MOUNTED DIMMER SWITCH

NEMA 5-20R 1- RECEPTACLE

NEMA 5-20R DUPLEX RECEPTACLE

NEMA 5-20R DOUBLE DUPLEX RECEPTACLE

NEMA 5-20R DUPLEX COMBINATION ISOLATED GROUND / GFI RECEPTACLE (PASS & SEYMOUR MODEL #2095IGTRGRY (GRAY))

OTHER RECEPTACLE - SEE PLAN FOR RATING AND TYPE

JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.

DOUBLE GANG JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.

JUNCTION BOX FOR RJ-11 TELEPHONE OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.

KP SECURITY SYSTEM KEYPAD:
PROVIDE A RECESSED JB WITH A 1/2" CONDUIT TO ABOVE THE DROP TILE CEILING IN THE OFFICE AREA AND TERMINATE WITH A CONDUIT BUSHING.

ELECTRICAL MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALOWABLE MATERIAL
CONDUCTORS	#10 AWG AND SMALLER	SOLID CU, TYPE THHN/THWN OR XHHW
	#8 AWG AND LARGER	STRANDED CU, TYPE THHN/THWN OR XHHW
CONDUITS	OUTDOOR, EXPOSED OR CONCEALED	INTERMEDIATE METAL CONDUIT
	OUTDOOR OR INDOOR DAMP LOCATIONS, CONNECTION TO VIBRATING EQUIPMENT	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
	INDOOR, EXPOSED	ELECTRICAL METALLIC TUBING U.N.O.
	INDOOR, WITHIN 1-1/2" OF ROOF DECK	INTERMEDIATE METAL CONDUIT
	INDOOR, CONCEALED	ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT OR METAL CLAD CABLE
	LOW VOLTAGE, INDOOR, ABOVE GROUND	ELECTRICAL METALLIC TUBING
	LOW VOLTAGE, BELOW GRADE	RIGID NONMETTALIC CONDUIT (SCHEDULE 40 PVC)
WIRING DEVICES	IN KITCHEN, OFFICE OR NON-PUBLIC SPACES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	IG OR IG/GFCI RECEPTACLES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	ON DRYWALL IN DINING ROOM	WHITE DEVICE WITH WHITE COVER PLATE
	ON HOT ROLLED STEEL OR RICHLITE	BLACK DEVICE WITH BLACK COVER PLATE
	IN RESTROOMS	WHITE DEVICE WITH WHITE COVER PLATE

LANDLORD PROVISIONS

ELECTRICAL SERVICE

FURNISH AND INSTALL ONE CODE-COMPLIANT 400 AMP, 120/208 VOLT, 3-PHASE, 4-WIRE METERED SERVICE CAPABLE OF SUPPLYING 120 KVA BROUGHT TO 400 AMP FUSED DISCONNECT
SWITCH (TO BE NEMA 3R RAIN TIGHT IN EXTERIOR INSTALLATIONS) OR 400 AMP CIRCUIT BREAKER.
ANY RELATED ELECTRIC UTILITY COMPANY CHARGES SHALL BE PAID BY LANDLORD. LANDLORD SHALL PROVIDE ONE SET 400A COPPER THHN CONDUCTORS, TO BE 4-500 KCMIL, #1/0 G IN 3-1/2" C.
FOR CONDUCTOR LENGTHS UP TO 250 FEET OR 4-600 KCMIL, #1/0 G IN 4" C. FOR CONDUCTOR LENGTHS OVER 250 FEET, FROM MAIN DISCONNECT TO TENANT'S PANEL BOARD SUPPLIED BY LANDLORD IN A LOCATION WITHIN THE PREMISES AS ETERMINED BY TENANT IN ACCORDANCE WITH TENANT'S PLANS FOR THE PREMISES. LANDLORD TO PROVIDE TEMPORARY POWER VIA HOUSE PANEL UNTIL TENANT'S METER IS INSTALLED.

ELECTRICAL CONDUITS IN EXPOSED CEILING: ALL LANDLORD'S BASE BUILDING WIRING RUNNING THROUGH TENANT'S EXPOSED CEILING SHALL BE ENCASED IN EMT OR IMC CONDUIT, RUN TIGHT TO THE DECK AND BE EITHER PARALLEL OR PERPENDICULAR TO THE MAIN ENTRY STOREFRONT. THERE SHALL BE NO DIAGONAL RUNS OR AND ALL CONDUITS SHALL BE IN STRAIGHT LINES. THERE SHALL BE NO SURFACE MOUNTED CONDUIT ON WALLS.

FIRE ALARM

THE LL SHALL FURNISH AND INSTALL ONE MAIN FIRE ALARM CONTROL PANEL PER TENANT'S PLANS AND SPECIFICATIONS FOR THE SHELL BUILDING WITH SUFFICIENT CAPACITY TO SERVE THE TENANT'S NEEDS (TO BE LOCATED IN A SHARED DEDICATED COMMON AREA WITHIN THE SHELL BUILDING OR AT A LOCATION OTHERWISE APPROVED BY TENANT). THE LL'S MAIN FACP SHALL BE CAPABLE OF ACCOMMODATING AND CONNECTING TO THE TENANT'S FIRE ALARM SYSTEM AS REQUIRED BY THE LOCAL JURISDICTION FOR TENANT'S USE. LL SHALL PROVIDE A 1" MIN. EMT CONDUIT (WITH PULL STRING) TO BE ROUTED FROM THE MAIN FACP TO THE TENANT'S LEASED PREMISES AT A LOCATION IN ACCORDANCE WITH THE TENANT'S PLANS.
LANDLORD SHALL PROVIDE TENANT WITH MONITORING COMPANY CONTACT INFORMATION OR CODES AS NEEDED TO COMPLETE INSTALLATION OF TENANT'S FIRE ALARM SYSTEM.

TELEPHONE/IT GENERAL NOTES

A. LL SHALL INSTALL A 2" CONDUIT WITH PULL STRING ROUTED FROM THE PROPERTY'S JOINT TELEPHONE POINT OF DEMARCATION TO A LOCATION WITHIN THE LEASED PREMISES IN ACCORDANCE WITH THE TENANT'S PLANS.
B. LL SHALL INSTALL TWO 2" CONDUITS WITH PULL STRING ROUTED FROM THE PROPERTY'S JOINT ISP POINT OF DEMARCATION TO A LOCATION WITHIN THE LEASED PREMISES IN ACCORDANCE WITH THE TENANT'S PLANS. ONE CONDUIT SHALL REMAIN EMPTY, FOR FUTURE USE.
C. IF EXISTING FACILITIES FROM CURRENT TELECOM OR DATA/ISP PROVIDER(S) ARE FULL, LL AGREES TO PAY FOR THE EXPANSION OF SEGREGATED FACILITIES FOR TENANT'S USE.
D. LANDLORD SHALL PROVIDE 12 PAIRS (16 PAIRS IF THE LOCAL JURISDICTION REQUIRES DEDICATED FIRE ALARM LINES) RUN TO BUILDING DMARC THAT ARE AVAILABLE FOR TENANT'S SOLE USE (TAGGED AND RESERVED)
I. LL SHALL PROVIDE ONE 120/208 DUPLEX OUTLET TO BE LOCATED WITHIN 6 FEET OF THE DEMARC BLOCK LOCATION. IF DMARC IS INSTALLED ON THE EXTERIOR OF THE BUILDING, A WEATHERPROOF OUTLET AND COVER SHALL BE PROVIDED.
II. LL SHALL PROVIDE ELECTRICAL GROUNDING COMPONENTS FOR THE PHONE SYSTEM PER LOCAL CODES AND THE LOCAL EXCHANGE CARRIER'S REQUIREMENTS.
E. LL SHALL PROVIDE APPROPRIATE INFRASTRUCTURE FROM COMMON SERVICE ENTRANCE TO TENANT'S LEASED PREMISES IN ORDER FOR TENANT TO PROVISION HIGH SPEED BROADBAND ACCESS, PER FCC GUIDELINES (25M/3M).
F. IF THERE IS NO CONNECTIVITY AVAILABLE, THE LL WILL PROVIDE NECESSARY INFRASTRUCTURE FOR THE ISP OF TENANT'S CHOOSING TO INSTALL HIGH SPEED BROADBAND ACCESS TO THE LEASED PREMISES.
G. THE LL AGREES TO ALLOW TENANT TO INSTALL CONDUIT AND OR OTHER SERVICE ENTRANCE FACILITIES TO EXTEND THE EXTERNAL DMARC INTO TENANT'S LEASED PREMISES.
H. IF, IN THE CASE THAT SUFFICIENT BANDWIDTH IS NOT PRESENT WITH EXISTING TELECOM FACILITIES, LANDLORD SHALL ALLOW ALTERNATE ISP(S) TO ACCESS PREMISES TO PROVIDE HIGH SPEED BROADBAND ACCESS.
I. IF, IN THE FUTURE, TENANT DEEMS AN ISP CHANGE IS NECESSARY, THE LL SHALL NOT PROHIBIT THE INSTALLATION OF NEW CIRCUITS THAT MEET THE REQUIREMENTS AS DEEMED NECESSARY BY THE TENANT.
J. IF THE CELLULAR BACKUP SIGNAL IS NOT SUFFICIENT IN THE SPACE, THE LL WILL ALLOW TENANT TO INSTALL ADDITIONAL CELLULAR EQUIPMENT OR FACILITIES FOR BACKUP CONNECTIVITY (I.E. - EXTERNAL CELLULAR ANTENNA, SECONDARY ISP, ETC.).

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Issue Record:

5/30/2024	COMBINE PERMIT SET

Revisions:

Drawn: JJV
Checked: BW

Project No.: CMG5134

Contents:

ELECTRICAL SPECIFICATIONS

E001

ELECTRICAL SPECIFICATIONS

SECTION 16011 TEMPORARY & PERMANENT ELECTRICAL SERVICE PART 1 GENERAL

1. DEFINITIONS
   - A. GFCI: Ground fault current interrupter.
   - B. RMS: Root Mean Square
   - C. SPDT: Single Pole, Double Throw
2. USE CHARGES

B. Permanent Service: Coordinate with building owner and utility company to establish permanent service upon completion of the project. Contractor shall pay for all permits, aid-to-construction charges, and related fees associated with the new service.

1.3 NOTIFICATION

- A. Coordinate with owner to provide 72 hour written notification to other tenants of any power interruptions. Notification shall state the estimated time and duration of the electrical outage.

1. QUALITY ASSURANCE
   - A. Standards: Comply with ANSI A10.6, NECA's 'Temporary Electrical Facilities," and NFPA 241.
     1. Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with trade regulations and union jurisdictions.
     2. Electric Service: Comply with NECA, NEMA and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
     3. Comply with OSHA standards and regulations.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Electrical Outlets: Properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-V plugs into higher-voltage outlets; equipped with ground-fault circuit interrupters, reset button, and pilot light.
- B. Power Distribution System Circuits: Where permitted and overhead and exposed for surveillance, wiring circuits, not exceeding 12S-V ac, 20-A rating, and lighting circuits may be nonmetallic sheathed cable.
- C. Main panelboard with disconnect.
- D. Temporary lighting.
- E. 120 volt receptacles with overcurrent protection.
- F. Enclosures. NEMA AB 1 and NEMA KS 1 to meet environmental conditions of installed location.

1. Outdoor Locations: NEMA 250, Type 3R.

G. All material shall be UL Listed.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, and overload-protected disconnecting means.
  1. Install power distribution wiring overhead and rise vertically where least exposed to damage.
- B. Electric Distribution: Provide receptacle outlets adequate for connection of power tools and equipment.
  1. Provide waterproof connectors to connect separate lengths of electrical power cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio.
  2. Provide metal conduit, tubing, or metallic cable for wiring exposed to possible damage. Provide rigid steel conduits for wiring exposed on grades, floors, decks, or other traffic areas.
  3. Provide metal conduit enclosures or boxes for wiring devices.
  4. Provide 4-gang outlets, spaced so 1 DO-foot (30-m) extension cord can reach each area for power hand tools and task lighting. Provide a separate 125-V ac, 20-A circuit for each outlet.
- C. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction

2. Provide one 100-W incandescent lamp (or equivalent) every 50 feet (15 m) in traffic areas.

3. Install exterior-yard site lighting that will provide adequate illumination for construction operations, parking and traffic conditions, and signage visibility when the Work is being performed.

END OF SECTION 16011

SECTION 16060 - GROUNDING AND BONDING PART 1 - GENERAL

1. SUMMARY
   - A. This Section includes grounding of electrical systems and equipment. Grounding requirements specified in this Section may be supplemented by special requirements of systems described in other Sections.
2. QUALITY ASSURANCE
   - A. Testing Agency Qualifications: Testing agency as defined by OSHA in 29 CFR 1910.7 or a member company of the International Electrical Testing Association and that is acceptable to authorities having jurisdiction.
     1. Testing Agency's Field Supervisor: Person currently certified by the International Electrical Testing Association to supervise on-site testing specified in Part 3.
   - B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
     1. Comply with UL 467.

PART 2 – PRODUCTS

2.1 GROUNDING CONDUCTORS

1. For insulated conductors, comply with Division 16 Section "Wiring Methods."
2. Material: Copper.
3. Equipment Grounding Conductors: Insulated with green-colored insulation.
4. Grounding Electrode Conductors: Stranded cable.
5. Bare Copper Conductors: Comply with the following:
6. Solid Conductors: ASTM B 3.
7. Assembly of Stranded Conductors: ASTM B 8.

2.2 CONNECTOR PRODUCTS

A. Comply with IEEE 837 and UL 467; listed for use for specific types, sizes, and combinations of conductors and connected items.

PART 3 - EXECUTION

3.1

\# Revisions:

1. APPLICATION
   - A. Use only copper conductors.
   - B. In raceways, use insulated equipment grounding conductors.
   - C. Equipment Grounding Conductor Terminations: Use bolted pressure clamps.
   - D. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated.
     1. Use insulated spacer; space 1 inch from wall and support from wall 6 inches above finished floor, unless otherwise indicated.
     2. At doors, route the bus up to the top of the door frame, across the top of the doorway, and down to the specified height above the floor.
2. EQUIPMENT GROUNDING CONDUCTORS
   - A. Comply with NFPA 70, Article 250, for types, sizes, and quantities of equipment grounding conductors, unless specific types, larger sizes, or more conductors than required by NFPA 70 are indicated.
3. INSTALLATION
   - A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.
4. CONNECTIONS
   - A. General: Make connections so galvanic action or electrolysis possibility is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
   - B. Equipment Grounding Conductor Terminations: For No. 8 AWG and larger, use pressure-type grounding lugs. No. 10 AWG and smaller grounding conductors may be terminated with winged pressure-type connectors.
   - C. Tighten screws and bolts for grounding and bonding connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A.
   - D. Compression-Type Connections: Use hydraulic compression tools to provide correct circumferential pressure for compression connectors. Use tools and dies recommended by connector manufacturer. Provide embossing die code or other standard method to make a visible indication that a connector has been adequately compressed on grounding conductor.

END OF SECTION 16060

SECTION 16100 - WIRING METHODS PART 1 - GENERAL

1. SECTION REQUIREMENTS
   - A. Summary: Building wire and cable and associated splices, connectors, and terminations for wiring systems rated 600 V and less, and twisted-pair cable; and raceways and boxes.

PART 2 - PRODUCTS

2.1 WIRES AND CABLES

- A. Connectors and Splices: Wiring connectors of size, ampacity rating, material, and type and class for application and for service indicated.

1. RACEWAYS

2.3 ENCLOSURES

- A. Hinged-Cover Enclosures: NEMA 250, steel enclosure with continuous hinge cover and flush latch. Finish inside and out with manufacturer's standard enamel.
- B. Cabinets: NEMA 250, Type 1, unless otherwise indicated. PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install wires and cables according to the NECA's "Standard of Installation.
- B. Wiring at Outlets: Install with at least 12 inches of slack conductor at each outlet.
- C. Conceal wiring, unless otherwise indicated, within finished walls, ceilings, and floors.
- D. Boxes and Enclosures: In damp or wet locations use NEMA 250, Type 4, stainless steel.
- E. Use raceway fittings compatible with raceway and suitable for use and location. For intermediate metal conduit, use threaded rigid steel conduit fittings, unless otherwise indicated.
- F. Raceways Embedded in Slabs: Install in middle third of the slab thickness where practical, and leave at least 1 -inch concrete cover.
- G. Install exposed raceways parallel to or at right angles to nearby surfaces or structural members, and follow the surface contours as much as practical.
- H. Join raceways with fittings designed and approved for the purpose and make joints tight. Use bonding bushings or wedges at connections subject to vibration. Use bonding jumpers where joints cannot be made tight. Use insulating bushings to protect conductors.
- I. Install pull wires in empty raceways. Use No. 14 AWG zinc-coated steel or monofilament plastic line having not less than 200-lb tensile strength. Leave not less than 18 inches of slack at each end of the pull wire.
- J. Install raceway sealing fittings where required by the NEC and at wiring entrances to refrigerated spaces. Locate at suitable, approved, accessible locations and fill them with UL-listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces.
- K. Stub-up Connections for Equipment: Extend conductors to equipment with rigid metal conduit; flexible metal conduit may be used 3 inches above the floor.
- L. Install a separate green ground conductor in surface metal raceway from the junction box supplying the raceway to receptacle and fixture ground terminals.

3.2 IDENTIFICATION MATERIALS AND DEVICES

- A. Install at locations for most convenient viewing without interference with operation and maintenance of equipment.
- B. Coordinate names, abbreviations, colors, and other designations used for electrical identification with corresponding designations indicated in the Contract Documents or required by codes and standards. Use consistent designations throughout Project.
- C. Identify raceways and cables with color banding as follows:
  1. Bands: Pretensioned, snap-around, colored plastic sleeves or colored encircling conduit, and place adjacent bands of two-color markings in contact, side by side.
  2. Band Locations: At changes in direction, at penetrations of walls and floors, at 50-foot maximum intervals in straight runs, and at 25-foot maximum intervals in congested areas.
  3. Colors: As follows:
     a. Telecommunication System: Green and yellow.
- D. Color-code System secondary service, feeder, and branch-circuit conductors throughout the secondary electrical system as follows:

	208V	480V
Phase A:	Black	Brown
Phase B:	Red	Orange
Phase C:	Blue	Yellow
Neutral:	White	Gray
Ground:	Green	Green

END OF SECTION 16100

SECTION 16140 - WIRING DEVICES PART 1 - GENERAL

1. SECTION REQUIREMENTS
   - A. Submittals: None.
   - B. Comply with NEMA WD 1.
   - C. Comply with NFPA 70. PART 2 - PRODUCTS

2.1 DEVICES

- A. General: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- B. Color: Per Material Schedule on sheet E010.
- C. Receptacles: Heavy- Duty grade, NEMA WD6, Configuration 5-20R unless otherwise indicated.
- D. Ground-Fault Circuit Interrupter Receptacles: integral duplex receptacle; for installation in box without an adapter. Feed-through type, with a 2-3/4-inch- deep outlet
- E. Isolated-Ground Receptacles: Equipment grounding contacts connected only to the green grounding screw terminal of the device with inherent electrical isolation from mounting strap.

A. Snap Switches: Heavy-duty, quiet type.
B. Wall Plate: Per Material Schedule on sheet E010.
C. Floor Service Fittings: Modular, above-floor, dual-service units suitable for wiring method used.
PART 3 – EXECUTION

3.1 INSTALLATION

- A. Install devices and assemblies plumb and secure.
- B. Mount devices flush with long dimension vertical unless otherwise indicated.
- C. Protect devices and assemblies during painting.
- D. Install wall plates when painting is complete and paint is cured.

END OF SECTION 16140

SECTION 16442 - PANELBOARDS PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: None.
B. Comply with NFPA 70.
C. Comply with NEMA PB 1. PART 2 - PRODUCTS

2.1 PANELBOARDS AND LOAD CENTERS

- A. Manufacturers: Subject to compliance with requirement, provide products by one of the following:
  1. Panelboards, Overcurrent Protective Devices, Controllers, Contactors, and Accessories:
     a. Square D Co.
     b. Eaton Corp.; Cutler-Hammer Products.
     c. General Electric Co.; Electrical Distribution & Control Div.
     d. Siemens Energy & Automation.
- B. Recessed, NEMA PB 1, Type 1.
  1. Load Center Capacity: as shown on drawings.
  2. Front: Secured to box with concealed trim clamps.
  3. Doors: With concealed hinges, flush catches, and tumbler locks, all keyed alike.
  4. Bus: Hard drawn copper of 98 percent conductivity.
- C. Molded-Case Circuit Breakers: NEMA AB 1, plug-in type, Single-handle for multipole circuit breakers. Appropriate for application, including Type SWD for repetitive switching lighting loads and Type HACR for heating, air-conditioning, and refrigerating equipment.
- D. Contactors: NEMA ICS 2, Class A combination contactors.
- D. PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install panelboards and accessory items according to NEMA PB 1.1. Provide typed, permanently-mounted English and Spanish circuit directories showing the panel schedules as installed in each panelboard.
- B. Mounting Heights: Top of trim 74 inches above finished floor, unless otherwise indicated.
- C. Future Circuit Provisions at Flush Panel boards: Stub four empty 3/4-inch conduits from panelboard into accessible or designated ceiling space.
- D. Wiring in Panelboard Gutters: Arrange conductors into groups, bundle and wrap with wire ties according to NEC guidelines
- E. Tighten electrical connectors and terminals, including grounding connections, according to manufacturer's published torque-tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A.
- F. Perform visual and mechanical inspections and electrical tests stated In NETA ATS.

END OF SECTION 16442

SECTION 16500 - LIGHTING PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: None.
B. Fixtures, Emergency Lighting Units, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
C. Coordinate ceiling-mounted luminaires with ceiling construction, mechanical work, and security and fire-prevention features mounted In ceiling space and on ceiling.
PART 2 - PRODUCTS

2.1 FIXTURES AND FIXTURE COMPONENTS, GENERAL

. C. Lenses, Diffusers, Covers, and Globes: 100 percent virgin acrylic plastic or annealed crystal glass, unless otherwise indicated

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Set units level, plumb, and square with ceiling and walls, and secure.
- B. Support for Recessed and Semi-recessed Grid-Type Fluorescent Fixtures: Install ceiling support system rods or wires at a minimum of 4 rods or wires for each fixture, located not more than 6 inches from fixture corners.
- C. Support for Suspended Fixtures: Support according to manufacturers' recommendations.
- D. Lamping: Where specific lamp designations are not indicated, lamp units according to manufacturer's written instructions.

END OF SECTION 16500

ELECTRICAL SYMBOLS

- CONDUIT CONCEALED ABOVE THE CEILING, IN WALL OR IN A RACEWAY
- CONDUIT CONCEALED BELOW THE SLAB
- A-6 — HOMERUN TO PANELBOARD, CIRCUIT NUMBER SHOWN
- (1) — PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- DISCONNECT SWITCH: X = SWITCH RATING, Y = FUSE SIZE (NF = NON-FUSED), Z = NUMBER OF POLES
- (J) — JUNCTION BOX
- ELECTRICAL PANELBOARD
- $ — GENERAL PURPOSE 1-POLE SWITCH
- $M — MANUAL STARTER WITH PILOT LIGHT
- $OS — OCCUPANCY SENSOR ACTIVATED WALL SWITCH
- $D — WALL MOUNTED DIMMER SWITCH
- NEMA 5-20R 1- RECEPTACLE
- NEMA 5-20R DUPLEX RECEPTACLE
- NEMA 5-20R DOUBLE DUPLEX RECEPTACLE
- NEMA 5-20R DUPLEX COMBINATION ISOLATED GROUND / GFI RECEPTACLE (PASS & SEYMOUR MODEL #2095IGTRGRY (GRAY))
- OTHER RECEPTACLE - SEE PLAN FOR RATING AND TYPE
- JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- DOUBLE GANG JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- JUNCTION BOX FOR RJ-11 TELEPHONE OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- KP — SECURITY SYSTEM KEYPAD: PROVIDE A RECESSED JB WITH A 1/2" CONDUIT TO ABOVE THE DROP TILE CEILING IN THE OFFICE AREA AND TERMINATE WITH A CONDUIT BUSHING.

CASE Engineering Inc.
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CERTIFICATE OF AUTHORITY NO. F-20080

ELECTRICAL MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALOWABLE MATERIAL
CONDUCTORS	#10 AWG AND SMALLER	SOLID CU, TYPE THHN/THWN OR XHHW
	#8 AWG AND LARGER	STRANDED CU, TYPE THHN/THWN OR XHHW
CONDUITS	INDOOR, EXPOSED	ELECTRICAL METALLIC TUBING U.N.O.
	INDOOR, WITHIN 1-1/2" OF ROOF DECK	INTERMEDIATE METAL CONDUIT
	INDOOR, CONCEALED ABOVE GRADE	ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT, OR METAL CLAD CABLE
	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED WET OR DAMP LOCATIONS)	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED INDOOR DRY LOCATIONS)	FLEXIBLE METAL CONDUIT
	OUTDOOR, ABOVE GRADE, EXPOSED OR CONCEALED	INTERMEDIATE METAL CONDUIT
	LOW VOLTAGE, INDOOR, ABOVE GROUND	ELECTRICAL METALLIC TUBING
	LOW VOLTAGE, BELOW GRADE	RIGID NONMETTALIC CONDUIT (SCHEDULE 40 PVC)
WIRING DEVICES	IN KITCHEN, OFFICE OR NON-PUBLIC SPACES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	IG OR IG/GFCI RECEPTACLES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	ON DRYWALL IN DINING ROOM	WHITE DEVICE WITH WHITE COVER PLATE
	ON HOT ROLLED STEEL OR RICHLITE	BLACK DEVICE WITH BLACK COVER PLATE
	IN RESTROOMS	WHITE DEVICE WITH WHITE COVER PLATE

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPT
IG	ISOLATED GROUND
JB	JUNCTION BOX
NL	NIGHT LIGHT
S	SURFACE MOUNTED
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF
CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

GENERAL NOTES:

A. GENERAL NOTES APPLY TO ELECTRICAL SHEETS.

B. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE ELECTRICAL CODE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE SHEET G000 FOR THE PREVAILING CODES.

C. WIRING SHALL BE (2)#12, #12 G IN 3/4" C UNLESS NOTED OTHERWISE.

D. INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.

E. CIRCUIT EMERGENCY LIGHTS, ILLUMINATED EXIT SIGNS, AND NIGHT LIGHTS AHEAD OF LOCAL SWITCHING.

F. INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 18" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.

G. INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.

H. PROVIDE 1" CONDUIT WITH PULL STRING FROM EACH J-BOX FOR TELEPHONE OR DATA JACKS TO ABOVE OFFICE CEILING. SEE MATERIAL SCHEDULE FOR ALLOWABLE CONDUIT MATERIALS. PROVIDE CONDUITS WITH MINIMAL ELBOWS AND TERMINATE CONDUITS ABOVE OFFICE CEILING WITH CONDUIT BUSHING.

I. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSIONS, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

J. DIMENSIONS SHOWN IN ELECTRICAL ELEVATIONS ARE FROM THE WALL FRAMING UNLESS NOTED OTHERWISE.

K. PROVIDE LABELING CALLED FOR IN THE ELECTRICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING).

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MATTHEW RICHARD CASE
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REVISION 1 - 7/1/24

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Issue Record:

5/30/2024	COMBINE PERMIT SET

Revisions:

Drawn: JJV
Checked: BW

Project No.: CMG5134

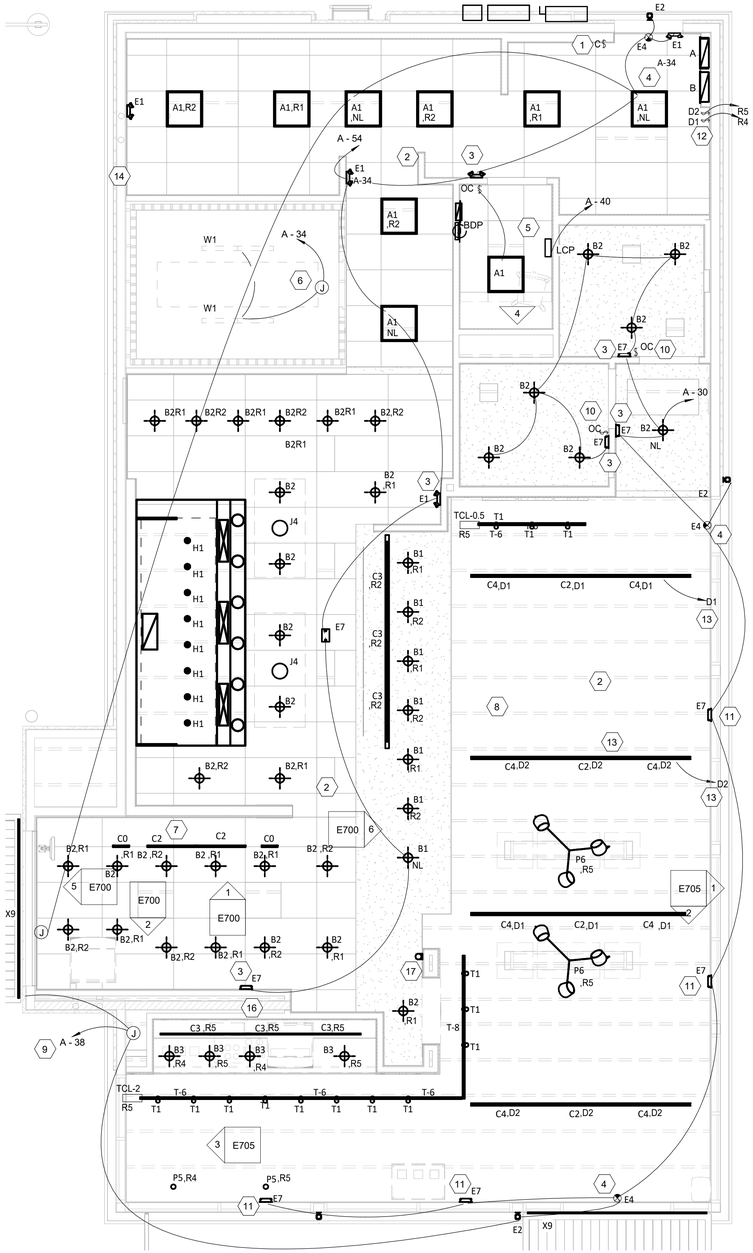
Contents:

ELECTRICAL SPECIFICATIONS

E010

LIGHTING CONTROL COMPONENTS SCHEDULE

	DESCRIPTION	QUANTITY	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
LCP	nLIGHT LIGHTING CONTROL PANEL	1	TLS	GC	ACUITY	ARP INTENC08 8SPR MVOLT FM DTC	8 RELAY PANEL FOR DIMMING CONTROL WITH FLUSH MOUNT ENCLOSURE, AND DIGITAL TIME CLOCK
$ C	WALL-MOUNTED CHELSEA SWITCH	1	TLS	GC	ACUITY	CHELSEA	SEE LIGHTING CONTROL DIAGRAM FOR SWITCH CONFIGURATION
$ D	WALL-MOUNTED DIMMER SWITCH	2	TLS	GC	COOPER	SAL06P-W E1	SLIDE DIMMER COMPATIBLE WITH UP TO 300W LED LIGHTING. SET AT 50%. IF DINING ROOM LIGHTS FLICKER AT THIS DIMMER SETTING THEN GC SHALL PROVIDE LUTRON DVCL-253P DIMMER AS REPLACEMENT.
$ OC	WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR	3	TLS	GC	HUBBELL	LHMTS 1-N-WH	WHITE DUAL TECHNOLOGY SINGLE RELAY WITH 1 BUTTON AND NEUTRAL WIRING



1 E100 **LIGHTING FLOOR PLAN**

1/4" = 1'-0"

ELECTRICAL LIGHTING PLAN NOTES

1. INSTALL LC&D CHELSEA SWITCH AND CONNECT TO BLUE BOX AS SHOWN IN DETAIL 6/E710.
2. FOR UNCIRCUITED LIGHT FIXTURES, CONNECT TO RELAY CIRCUIT INDICATED NEXT TO THE FIXTURE TAG THROUGH THE LIGHTING CONTROL PANEL (LCP) UNLESS NOTED OTHERWISE.
3. WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING UNLESS NOTED OTHERWISE.
4. VERIFY MOUNTING HEIGHT OF EXIT SIGN PRIOR TO ROUGH IN. EXIT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED. SEE ARCHITECTURAL ELEVATIONS FOR FURTHER INFORMATION.
5. PROVIDE DOUBLE-POLE SINGLE-THROW LIGHT SWITCH IN OFFICE FOR CONTROL OF OFFICE LIGHT AND RESTROOM EXHAUST FAN.
6. INSTALL LIGHT FIXTURES FURNISHED WITH THE WALK-IN COOLER. PROVIDE UNSWITCHED CONDUCTOR FROM LIGHTING CIRCUIT TO WALK-IN COOLER LIGHTING J-BOX AND FROM J-BOX TO LIGHT FIXTURES AS SHOWN. CONDUIT BETWEEN LIGHT FIXTURES SHALL BE ROUTED ON THE INTERIOR OF THE WALK-IN COOLER. SEAL INTERIOR AND EXTERIOR OF CONDUITS WHERE THEY PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.
7. PROVIDE (2) GFCI RECEPTACLES FOR UNDERSHELF LIGHTING AS SHOWN. CONNECT TO SWITCHED LEG OF THE KITCHEN LIGHTING CIRCUIT. SEE ELEVATIONS ON SHEET E700 FOR RECEPTACLE LOCATIONS, HEIGHTS, AND CIRCUITING. INSTALL RECEPTACLES IN A HORIZONTAL ORIENTATION.
8. PROVIDE UNISTRUT AS SHOWN ON THE ARCHITECTURAL RCP PER THE ARCHITECTURAL UNISTRUT DETAIL. TYPICAL.
9. CONNECT EXTERIOR LIGHTING CIRCUIT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL PER DETAIL 5/E710.
10. INSTALL WALL-MOUNTED OCCUPANCY SENSOR FURNISHED BY LIGHTING SUPPLIER AT 42" AFF. ADJUST OCCUPANCY SENSOR TO PROVIDE AUTOMATIC ON/AUTOMATIC OFF OPERATION WITH A FIXED TIMER OF 30 MINUTES AND WITH BOTH THE PASSIVE INFRARED AND ULTRASONIC SENSORS ENABLED.
11. WALL MOUNT THE EMERGENCY LIGHT FIXTURE AS SHOWN IN THE DINING ROOM INTERIOR ELEVATIONS ON SHEET E110.
12. INSTALL WALL-MOUNTED DIMMERS ABOVE PANELBOARDS 6" ABOVE LAY-IN CEILING FOR CONTROL OF DINING ROOM OVERHEAD SQUARE LED. CONNECT DIMMERS TO RELAYS SHOWN THROUGH THE LIGHTING CONTROL PANEL. SET DIMMERS AT 50%.
13. CONNECT DINING ROOM (RELAY CIRCUITS R4, AND R5) SQUARE LED LIGHTS TO THE RELAY INDICATED THROUGH THE CORRESPONDING WALL-MOUNTED DIMMER INSTALLED ABOVE THE PANELBOARDS.
14. INSTALL LIGHTING CONTROL SYSTEM PER DETAIL 6/E710.
15. NOT USED.
16. PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
17. INSTALL CHIME/STROBE FURNISHED WITH VEHICLE DETECTION SYSTEM ON WALL 12" BELOW CEILING AND CONNECT TO VEHICLE DETECTOR SYSTEM PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

LIGHTING CONTROL PANEL SCHEDULE: LCP

RELAY	PANEL	CIRCUIT	AREA SERVED	CONTROL	TIME ON	TIME OFF	DIMMER CONTROL	NOTES
R1	A	32	KITCHEN A	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R2	A	34	KITCHEN B	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R3			SPARE					SINGLE POLE (NC)
R4	A	30	DINING ROOM A	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R5	A	30	DINING ROOM B	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R6	A	30	DINING ROOM DL	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R7	A	28	RR EXHAUST FAN	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R8	A	36	EXT. LIGHTING/SIGNAGE	TIMECLOCK	SUNSET -1HR	12:00:00 AM	N/A	SINGLE POLE (NC)

LIGHTING FIXTURE SCHEDULE

TAG	QUANTITY	TYPE	MOUNT	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	LAMP(S)	VOLTS	WATTS	SPECIAL REQUIREMENTS
A1	9	2x2 LED LENSED TROFFER	LAY-IN	TLS	GC	NORA LIGHTING	NPDBL-E22/334 W	(1) 3000K LED	120	30	COMPATIBLE WITH 0-10V DIMMING, FACTORY LOCKED TO 3000K
B1	8	RECESSED 6IN CAN LIGHT	CEILING	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL with NTM-57W/M1 Trim	(1) 17W ECOSTORY ECO-PAR38C -17-GU24-27K-25D LED (25°-2700K) W/ GU 24 BASE	120	17	
B2	31	RECESSED 6IN CAN LIGHT W/ LED TRIM	CEILING	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC-65130WW LED TRIM	INTEGRAL 3000K LED	120	17	LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
B3	4	RECESSED 6IN CAN LIGHT W/BLACK LED TRIM	CEILING	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC2-65127BB LED TRIM	INTEGRAL 3000K LED	120	12	BLACK LED TRIM FURNISHED WITH GU24 SOCKET
C0	2	LOW PROFILE LED - 1 FT	SURFACE	TLS	GC	NORA LIGHTING	EL/LED/12/WW	INTEGRAL 3000K LED	120	5	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C1	4	LOW PROFILE LED - 2 FT	SURFACE	TLS	GC	NORA LIGHTING	EL/LED/22/WW	INTEGRAL 3000K LED	120	9	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C2	10	LOW PROFILE LED - 3 FT	SURFACE	TLS	GC	NORA LIGHTING	EL/LED/34/WW	INTEGRAL 3000K LED	120	12	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C3	11	LOW PROFILE LED - 4 FT	SURFACE	TLS	GC	NORA LIGHTING	EL/LED/46/WW	INTEGRAL 3000K LED	120	15	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C4	7	LOW PROFILE LED - 5 FT	SURFACE	TLS	GC	NORA LIGHTING	EL/LED/59/WW	INTEGRAL 3000K LED	120	18	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
E1	4	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	TLS	GC	EXITRONIX	LED-90	(2) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP
E2	3	EXTERIOR REMOTE EMERGENCY LIGHT	VARIOUS	TLS	GC	EXITRONIX	CLED-BL-WP WITH PMC-B-1 MOUNTING PLATE	(1) SPECIAL LED	4	1	LOW VOLTAGE REMOTE EMERGENCY LIGHT POWERED BY REMOTE-CAPABLE EXIT SIGN
E4	3	WHITE EXIT SIGN WITH EMERGENCY LIGHT - STANDARD RED LETTERS	VARIOUS	TLS	GC	EXITRONIX	CLED-U-WH	(1) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
E7	9	EMERGENCY LIGHT	VARIOUS	TLS	GC	DUAL-LITE	EV2	(2) 1W INTEGRAL LED	120	1	90 MINUTE BATTERY BACKUP
H1	8	HOOD LIGHT	SURFACE	THS/TLS	THS	FIXTURE FURNISHED WITH HOOD	FURNISHED WITH HOOD	(1) TCP L16A19N1527K	120	23	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
HAB2	9	DECORATIVE PENDANT	SURFACE	TLS	GC	CRETE	12397GYPC	11W LED E26 PAR 30	120	11	CONCRETE PENDANT
HAB4	30	SQUARE LED DOWNLIGHT	RECESSED	TLS	GC	DIGIFABSHOP	CUSTOM	3W/FT LED STRIP	120	36	SYSTEM PROVIDED WITH (4) POWER SUPPLIES
T1	14	TRACK HEAD	TRACK	TLS	GC	JUNO	R605L 30K 90CRI PDIM WFL BL	INTEGRAL LED	120	10	BLACK CYLINDER TRACK HEAD W/ UNIVERSAL 120V TRAC ADAPTER AND WIDE FLOOD BEAM
T-6	4	TRACK (6 FEET)	SUSPENDED	TLS	GC	JUNO	T 6FT BK	N/A	120	0	SINGLE CIRCUIT, BLACK FINISH
T-8	1	TRACK (8 FEET)	SUSPENDED	TLS	GC	JUNO	T 8FT BK	N/A	120	0	SINGLE CIRCUIT, BLACK FINISH
X9	2	LED CHANNEL LIGHT	SUSPENDED	TLS	GC	PARADIGM LED	PL-AMC-2415 W/ OPAL LENS AND END CAPS	PL-FLEXSR590-WW-WP-3000K	120		FURNISHED W/ REMOTE-MOUNTED NEMA 3R DIMMABLE PL-PS-M100-DIM-24 LED DRIVER. SEE PLAN FOR LENGTHS.
TCL-1.0	1	CURRENT LIMITER (60W)	SURFACE	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 2A BLCK	N/A	120	0	BLACK CURRENT LIMITING END FEED
TCL-2	0	CURRENT LIMITER (240W)	SURFACE	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 2A BLCK	N/A	120	0	BLACK CURRENT LIMITING END FEED

LIGHTING FIXTURE SCHEDULE NOTES
A. FLUORESCENT LAMPS NOT INCLUDED WITH THE FIXTURES RE TO BE MANUFACTURED BY SYLVANIA UNLESS OTHERWISE NOTED. PHILIPS FLUORESCENT LAMPS WILL BE AN ACCEPTABLE ALTERNATE.
B. SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT LOCATIONS.
C. SEE THE ARCHITECTURAL LIGHTING DETAILS FOR FIXTURE CONSTRUCTION DETAILS.

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REVISION 1 - 7/1/24

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Issue Record:

5/30/2024	COMBINE PERMIT SET

Revisions:

Drawn: JJV
Checked: BW

Project No.
CMG5134

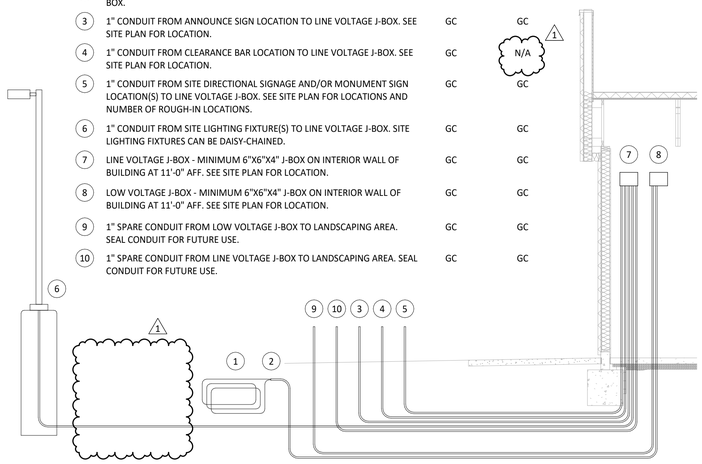
Contents:
ELECTRICAL LIGHTING PLAN

E100

GENERAL NOTES

A. WORK AND MATERIALS SHALL BE COMPLIANT WITH THE NEC AND REQUIREMENTS OF THE AHJ.
B. CONDUCTORS AND CONNECTIONS BELOW GRADE, EVEN WHERE WITHIN CONDUITS OR ENCLOSURES, SHALL BE SUITABLE FOR WET LOCATIONS.
C. PROVIDE PULL STRING IN EMPTY CONDUITS.
D. SEAL ENDS OF CONDUITS STUBBED UP ABOVE GRADE TO PROTECT FROM THE ELEMENTS.

TAG	DESCRIPTION	RESPONSIBILITY: DEVICE OR CONDUIT	RESPONSIBILITY: CONNECTION OR CONDUCTORS
1	VEHICLE DETECTOR LOOP - 6'x4' WITH 4 TURNS (EMX PR-46-XX). VERIFY LENGTH OF LEAD-IN WIRE PRIOR TO ORDERING TO ALLOW WIRE TO REACH VEHICLE DETECTOR WITHOUT SPLICING. SEE SITE PLAN FOR LOCATION(S).	GC	GC
2	1" CONDUIT FROM VEHICLE DETECTOR LOOP LOCATION TO LOW VOLTAGE J-BOX.	GC	GC
3	1" CONDUIT FROM ANNOUNCE SIGN LOCATION TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATION.	GC	GC
4	1" CONDUIT FROM CLEARANCE BAR LOCATION TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATION.	GC	N/A
5	1" CONDUIT FROM SITE DIRECTIONAL SIGNAGE AND/OR MONUMENT SIGN LOCATION(S) TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATIONS AND NUMBER OF ROUGH-IN LOCATIONS.	GC	GC
6	1" CONDUIT FROM SITE LIGHTING FIXTURE(S) TO LINE VOLTAGE J-BOX. SITE LIGHTING FIXTURES CAN BE DAISY-CHAINED.	GC	GC
7	LINE VOLTAGE J-BOX - MINIMUM 6"X6"X4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. SEE SITE PLAN FOR LOCATION.	GC	GC
8	LOW VOLTAGE J-BOX - MINIMUM 6"X6"X4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. SEE SITE PLAN FOR LOCATION.	GC	GC
9	1" SPARE CONDUIT FROM LOW VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.	GC	GC
10	1" SPARE CONDUIT FROM LINE VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.	GC	GC



SITE CONDUIT DETAIL

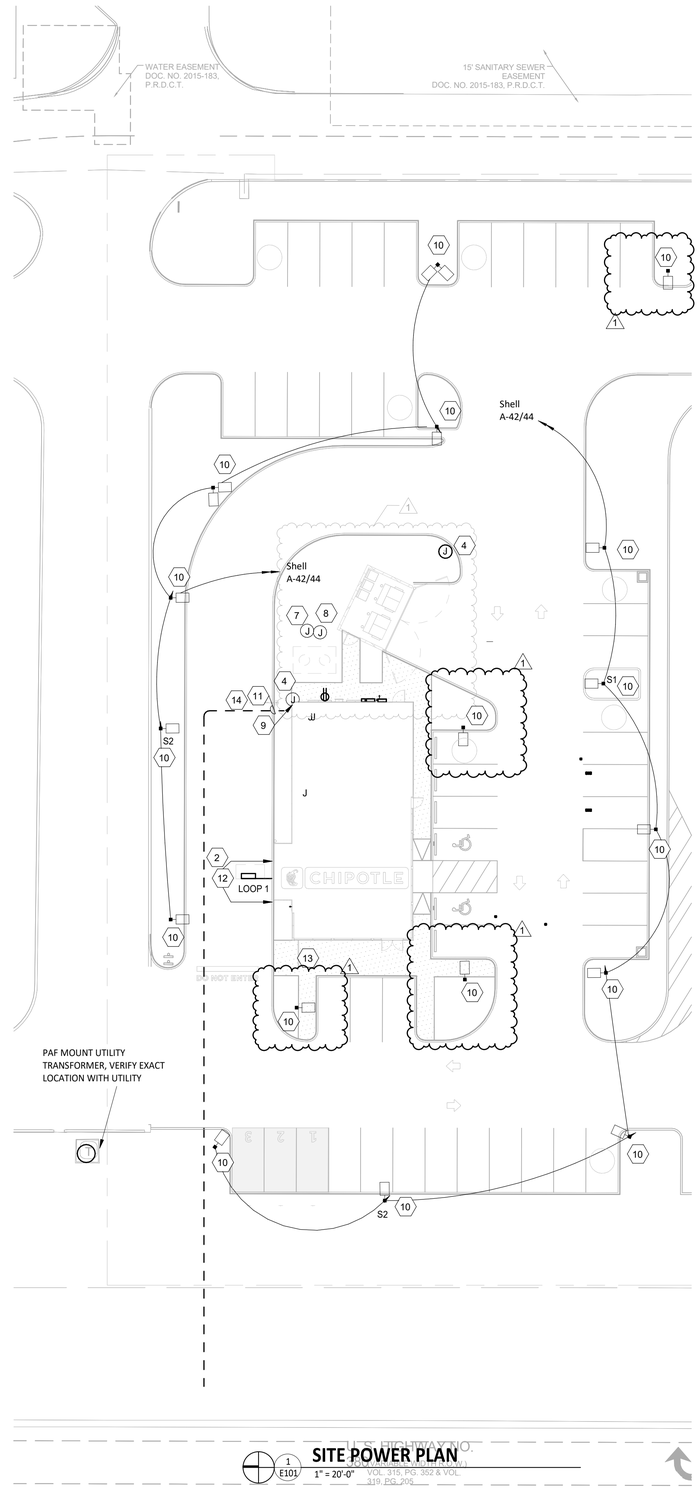
2 / E101 — 1/4" = 1'-0"

Lighting Fixture Schedule SITE

E-Fixture Type-Schd	Manufacturer	Model	Lamp	Comments
S1	LITHONIA	RSX1 LED 40K AFR MVOLT-HS	LED	PROVIDE WITH POLE, MOUNT AT 20' AFG
S2	LITHONIA	RSX1 LED 40K AFR MVOLT-HS	LED	PROVIDE WITH POLE, MOUNT AT 20' AFG

ELECTRICAL SITE PLAN NOTES

1. NOT USED.
2. PROVIDE CONDUIT WITH PULL STRING FOR VEHICLE DETECTION LOOP PER DETAIL 2/THIS SHEET AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALIGN DETECTOR LOOP TO BE CENTERED ON THE PICK-UP WINDOW.
3. MARKETING BOARD, PROVIDE CONDUIT WITH PULLSTRING TO PANEL. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
4. DIRECTIONAL SIGN. PROVIDE CONDUIT WITH PULLSTRING TO PANEL. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
5. NOT USED.
6. NOT USED.
7. PROVIDE 1" SPARE LOW VOLTAGE CONDUIT. SEE DETAIL 2/ THIS SHEET FOR MORE INFORMATION.
8. PROVIDE 1" SPARE LOW VOLTAGE CONDUIT. SEE DETAIL 2/ THIS SHEET FOR MORE INFORMATION.
9. INTERIOR J-BOXES AT 11'-0" AFF FOR LINE VOLTAGE AND LOW VOLTAGE SITE WIRING. SEE DETAIL 3/THIS SHEET FOR MORE INFORMATION.
10. PROVIDE SITE LIGHTING POLE BASE, POLE AND LIGHT FIXTURE. SEE PHOTOMETRIC PLAN.
11. PROVIDE 2" CONDUIT AND CONDUCTORS FROM TELECOMMUNICATION PROVIDERS POINT OF CONNECTION ROUTED TO MANAGERS OFFICE, SEE SHEET E102. COORDINATE EXACT STUB UP LOCATION WITH CONSTRUCTION MANAGER PRIOR TO ROUGHIN. REFER TO LANDLORD PROVISIONS SECTION TELEPHONE/IT FOR ADDITIONAL INFORMATION. FIELD VERIFY UTILITY CONNECTION POINT WITH CIVIL/UTILITY PRIOR TO ROUGH-IN.
12. LL SHALL FURNISH AND INSTALL (2) EXTERIOR, TENANT SPECIFIED LIGHTS LOCATED ADJACENT TO THE DRIVE-THROUGH WINDOW PER TENANT'S DESIGN/CONSTRUCTION DOCUMENTS. ILLUMINATION LEVELS WHEN MEASURED AT GRADE AROUND BUILDING PERIMETER, INCLUDING BUT NOT LIMITED TO THE PICK-UP LANE SPECIFICALLY, SHALL BE NO LESS THAN 5 FOOTCANDLES OR PER ALL APPLICABLE LOCAL CODES.
13. LL SHALL FURNISH AND INSTALL EMPTY CONDUIT WITH PULL STRING LABELED 'FUTURE PATIO LIGHTING' TO ELECTRICAL PANEL LOCATION.
14. PROVIDE ADDITIONAL 2" CONDUIT WITH PULL STRING FROM TELECOMMUNICATION PROVIDERS POINT OF CONNECTION ROUTED TO BUILDING DEMARCATION POINT FOR FUTURE USE. COORDINATE EXACT STUB UP LOCATION WITH CONSTRUCTION MANAGER PRIOR TO ROUGHIN. REFER TO LANDLORD PROVISIONS SECTION (B) TELEPHONE/IT FOR ADDITIONAL INFORMATION. FIELD VERIFY UTILITY CONNECTION POINT WITH CIVIL/UTILITY PRIOR TO ROUGH-IN.


WATER EASEMENT
DOC. NO. 2015-183,
P.R.D.C.T.
15' SANITARY SEWER
EASEMENT
DOC. NO. 2015-183, P.R.D.C.T.
Shell
A-42/44
Shell
A-42/44
LOOP 1
CHIPOTLE
DO NOT ENTER
PAF MOUNT UTILITY
TRANSFORMER, VERIFY EXACT
LOCATION WITH UTILITY
S1
S2
S2
J
J
J



D-Series Size 1
LED Area Luminaire

d^series

DLC DLC PREMIUM DLC PREMIUM FLEX

Buy American

Catalog Number

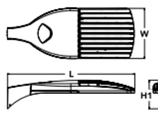
Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	1.01 ft² (0.09 m²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height H1:	7-1/2" (19.0 cm)
Height H2:	3-1/2"
Weight (max):	27 lbs (12.2 kg)



Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

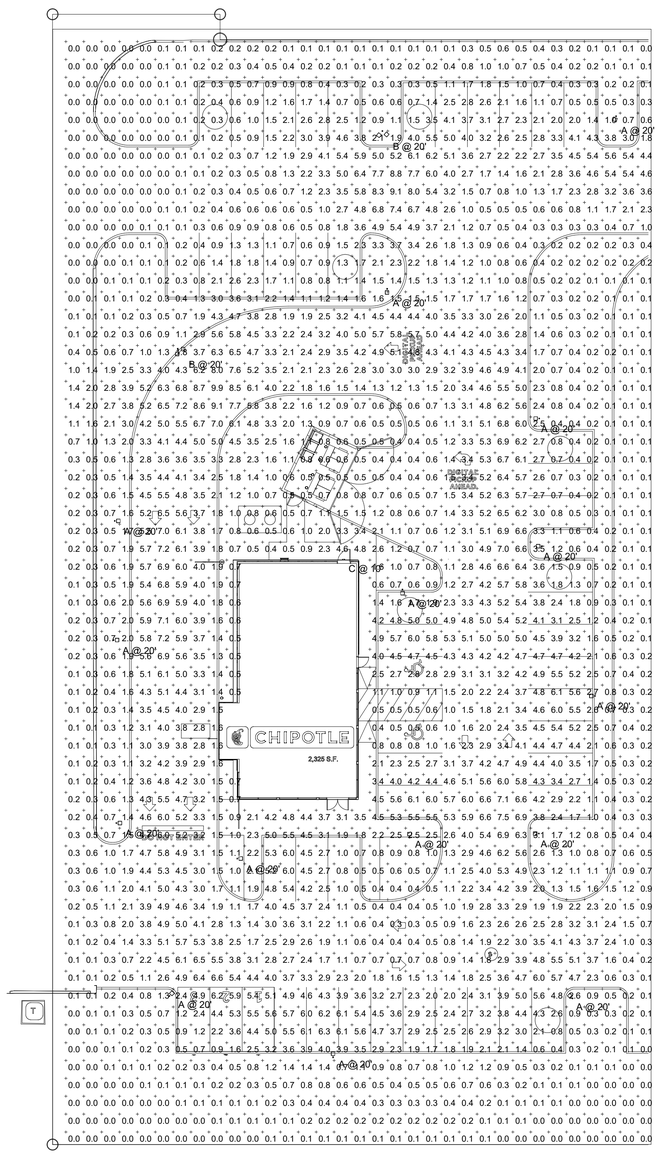
EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

Series	LEDs	Color temperature	Distribution		Voltage	Mounting
DSX1 LED	**Forward optics** P1 P4[1] P7[1] P2 P5[1] P8 P3 P6[1] P9[1] **Rotated optics** P10[1] P12[1] P11[1] P13[1,2]	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short (Automotive) T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium	T5VS Type V very short[1] T5S Type V short[1] T5M Type V medium[1] T5W Type V wide[1] BLC Backlight control[3] LCCO Left corner cutoff[3] RCCO Right corner cutoff[3]	MVOLT[1] XVOLT (277V-480V)[4,5,6] 120[7] 208[7] 240[7] 277[7] 347[7] 480[7]	**Shipped included** SPA Square pole mounting RPA Round pole mounting[8] WBA Wall bracket SPUMBA Square pole universal mounting adaptor[8] RPUMBA Round pole universal mounting adaptor[8] **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)[9]

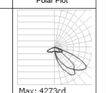
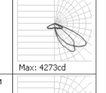
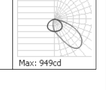
Control options		Other options		Finish (required)	
Shipped installed		**Shipped installed**		DDBXD	Dark bronze
NLTAIR2 nLight AIR generation 2 enabled[10]	PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[10,11]	HS House-side shield[12]		DBLXD	Black
PIRHN Network, high/low motion/ambient sensor[10]	PIRH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[10,11]	SF Single fuse (120, 277, 347V)[13]		DNAXD	Natural aluminum
PER NEMA twist-lock receptacle only (controls ordered separate)[14]	PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[10,11]	DF Double fuse (208, 240, 480V)[13]		DWHXD	White
PERS Five-pin receptacle only (controls ordered separate)[14,15]	PIRHFC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[10,11]	L90 Left rotated optics[3]		DDBTXD	Textured dark bronze
PER7 Seven-pin receptacle only (controls ordered separate)[14,16]	FAO Field adjustable output[10,17]	R90 Right rotated optics[3]		DBLBXD	Textured black
DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[5]		HA 50°C ambient operation[5]		DNATXD	Textured natural aluminum
DS Dual switching[18,19,20]		BAA Buy American Act Compliant		DWHGXD	Textured white
		Shipped separately			
		BS Bird spikes[18]			
		EGS External glare shield			

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Plan View
Scale - 1" = 20ft

Schedule

Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power	Polar Plot
	A		15	Lithonia Lighting	RSX1 LED P1 40K AFR HS	RSX LED Area Luminaire Size 1 P1 Lumen Package 4000K CCT Type AFR Distribution with HS shield	1	5384	1	51.34	 Max: 4273cd
	B		2	Lithonia Lighting	RSX1 LED P1 40K AFR HS	RSX LED Area Luminaire Size 1 P1 Lumen Package 4000K CCT Type AFR Distribution with HS shield	1	5384	1	102.68	 Max: 4273cd
	C		1	Lithonia Lighting	ARC1 LED P1 40K	ARC1 LED WITH P1 - PERFORMANCE PACKAGE, 4000K	1	1454	1	10.8751	 Max: 949cd

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	2.0 fc	9.9 fc	0.0 fc	N/A	N/A

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Issue Record:

5/30/2024	COMBINE PERMIT SET

Revisions:

Drawn: Author
Checked: Checker

Project No.: CMG5134

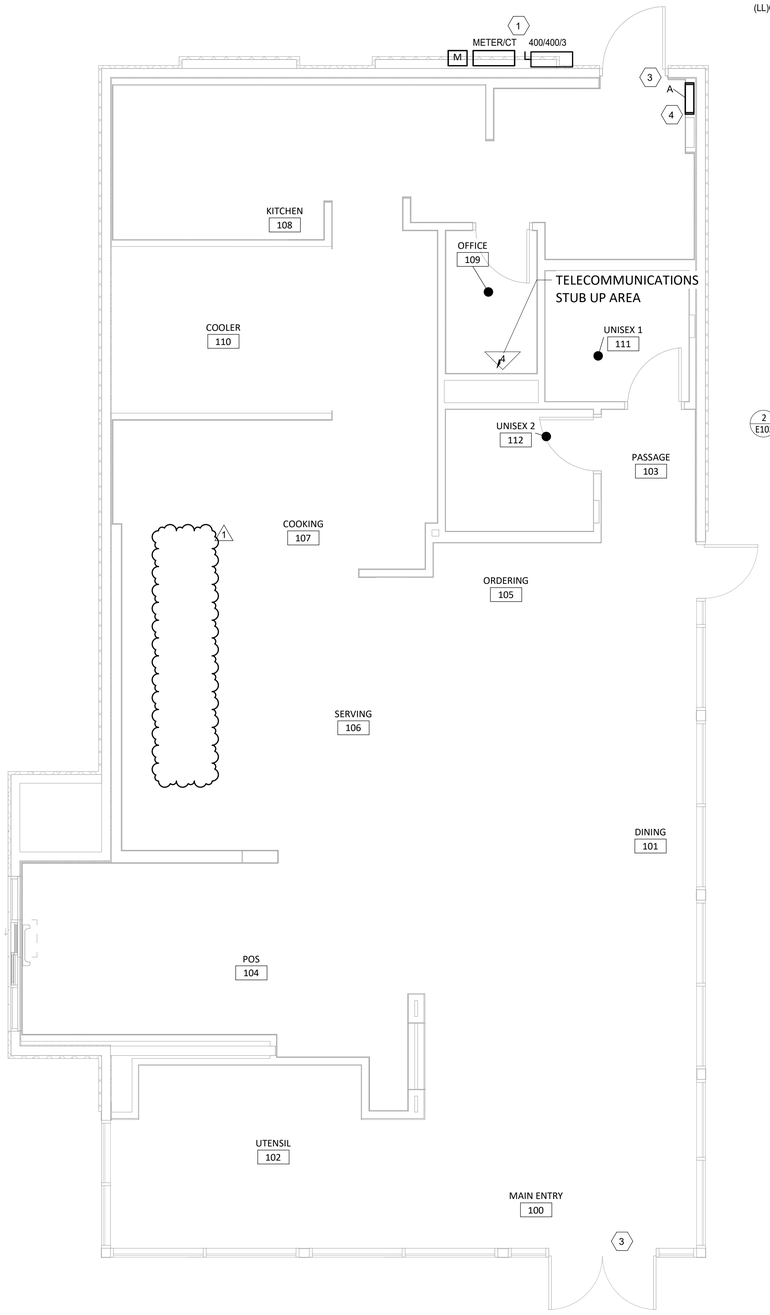
Contents:

SITE PHOTOMETRIC PLAN

E102

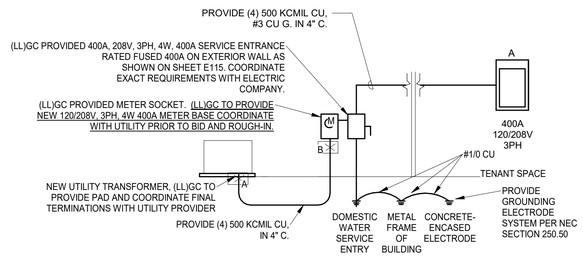
ELECTRICAL POWER PLAN NOTES

1. NEW ELECTRICAL DISTIBUTION EQUIPMENT BY LANDLORD. REFER TO 2/E102 FOR ADDITIONAL INFROMATION.
2. NOT USED.
3. CONNECT EXIT SIGN WITH REMOTE EGRESS DUAL HEAD FIXTURE AHEAD OF ALL LIGHTING CONTROLS OF GENERAL LIGHTING CIRCUIT SERVING THIS AREA.
4. NEW PANEL, PROVIDED BY TENANT. SEE PANEL SCHEDULE.



ELECTRICAL SHELL PLAN

1 / E103 — 1/4" = 1'-0"



REFER TO LANDLORD PROVISIONS BELOW FOR CLARIFICATION REGARDING RESPONSIBILITIES.

LANDLORD BE SHALL FURNISH AND INSTALL ONE CODE-COMPLIANT 400 AMP, 120/208 VOLT, 3-PHASE, 4-WIRE METERED SERVICE CAPABLE OF SUPPLYING 120 KVA BROUGHT TO 400 AMP FUSED DISCONNECT SWITCH (TO BE NEMA 3R RAIN TIGHT IN EXTERIOR INSTALLATIONS) OR 400 AMP CIRCUIT BREAKER. ANY RELATED ELECTRIC UTILITY COMPANY CHARGES SHALL BE PAID BY LANDLORD. LANDLORD SHALL PROVIDE ONE SET 400A COPPER THHN CONDUCTORS, TO BE 4-500 KCMIL, #1/0 G IN 3-1/2" C. FOR CONDUCTOR LENGTHS UP TO 250 FEET OR 4-600 KCMIL, #1/0 G IN 4" C. FOR CONDUCTOR LENGTHS OVER 250 FEET, FROM MAIN DISCONNECT TO TENANT'S PANEL BOARD SUPPLIED BY TENANT IN A LOCATION WITHIN THE PREMISES AS DETERMINED BY TENANT IN ACCORDANCE WITH TENANT'S PLANS FOR THE PREMISES. LANDLORD TO PROVIDE TEMPORARY POWER VIA HOUSE PANEL UNTIL TENANT'S METER IS INSTALLED.

MAIN DISTRIBUTION DIAGRAM

2 / E103 — NOT TO SCALE

JOB NAME:

PANELBOARD: shell A

VOLTS :	120/208 Wye	**MOUNTING:**	Recessed	**BUS MATERIAL:**	CU
PHASE :	3	**TYPE:**	Type 1	**TOP OR BOTTOM FEED:**	
WIRES:	4	**FEED THRU LUGS(Y/N):**	Y	**GROUND BUS:**	
MLO:		**SERIES RATED(Y/N):**		**BRANCH BREAKERS:**	
MCB:	400	**SHUNT TRIP MAIN:**		**S.E. RATED(Y/N):**	N
SOURCE:		**MINIMUM AIC RATING:**	22KAIC	**NEUTRAL RATING(%):**	

CKT#	AMP	Pole	TYPE	Load Name	KVA	A	B	C	KVA	Load Name	TYPE	Pole	AMP	CKT#
1	--	1	--	SPACE	--	0 VA / 0 VA			--	SPACE	--	1	--	2
3	--	1	--	SPACE	--		0 VA / 0 VA		--	SPACE	--	1	--	4
5	--	1	--	SPACE	--			0 VA / 0 VA	--	SPACE	--	1	--	6
7	--	1	--	SPACE	--	0 VA / 0 VA			--	SPACE	--	1	--	8
9	--	1	--	SPACE	--		0 VA / 0 VA		--	SPACE	--	1	--	10
11	--	1	--	SPACE	--			0 VA / 0 VA	--	SPACE	--	1	--	12
13	--	1	--	SPACE	--	0 VA / 0 VA			--	SPACE	--	1	--	14
15	--	1	--	SPACE	--		0 VA / 0 VA		--	SPACE	--	1	--	16
17	--	1	--	SPACE	--			0 VA / 0 VA	--	SPACE	--	1	--	18
19	--	1	--	SPACE	--	0 VA / 0 VA			--	SPACE	--	1	--	20
21	--	1	--	SPACE	--		0 VA / 0 VA		--	SPACE	--	1	--	22
23	--	1	--	SPACE	--			0 VA / 0 VA	--	SPACE	--	1	--	24
25	--	1	--	SPACE	--	0 VA / 0 VA			--	SPACE	--	1	--	26
27	--	1	--	SPACE	--		0 VA / 0 VA		--	SPACE	--	1	--	28
29	--	1	--	SPACE	--			0 VA / 0 VA	--	SPACE	--	1	--	30
31	--	1	--	SPACE	--	0 VA / 0 VA			--	SPACE	--	1	--	32
33	--	1	--	SPACE	--		0 VA / 0 VA		--	SPACE	--	1	--	34
35	--	1	--	SPACE	--			0 VA / 0 VA	--	SPACE	--	1	--	36
37	--	1	--	SPACE	--	0 VA / 0 VA			--	SPACE	--	1	--	38
39	--	1	--	SPACE	--		0 VA / 0 VA		--	SPACE	--	1	--	40
41	--	1	--	SPACE	--			0 VA / 0 VA	0.0 kVA	-LTG		2	20 A	42,44
43	--	1	--	SPACE	--	0 VA / 0 VA								
45	--	1	--	SPACE	--		0 VA / 0 VA							46
47	--	1	--	SPACE	--			0 VA / 0 VA						48
49	--	1	--	SPACE	--	0 VA / 0 VA			--	SPACE	--	1	--	50
51	--	1	--	SPACE	--		0 VA / 0 VA		--	SPACE	--	1	--	52
53	--	1	--	SPACE	--			0 VA / 0 VA	--	SPACE	--	1	--	54
55	--	1	--	SPACE	--	0 VA / 0 VA			--	SPACE	--	1	--	56
57	--	1	--	SPACE	--		0 VA / 0 VA		--	SPACE	--	1	--	58
59	--	1	--	SPACE	--			0 VA / 0 VA	--	SPACE	--	1	--	60
				CONNECTED LOAD:	0.0 kVA	0.0 kVA		0.0 kVA						
				CONNECTED AMPS:	0.0 A	0.0 A		0.0 A						

				**PANEL TOTALS` **	
LIGHTING	0 VA		0 VA		
RECEPTACLE					
KITCHEN					
MOTOR				**TOTAL CONNECTED LOAD:**	0 A
WATER HEATER				**TOTAL ESTIMATED DEMAND:**	0 VA
HVAC				**TOTAL EST. DEMAND CURRENT:**	0 A

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Issue Record:
5/30/2024 COMBINE PERMIT SET

Revisions:
1 07/03/24 CITY COMMENTS

Drawn: Author
Checked: Checker

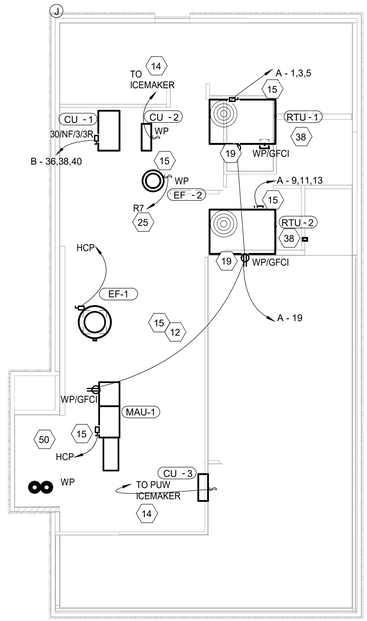
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Contents:
ELECTRICAL SHELL PLAN

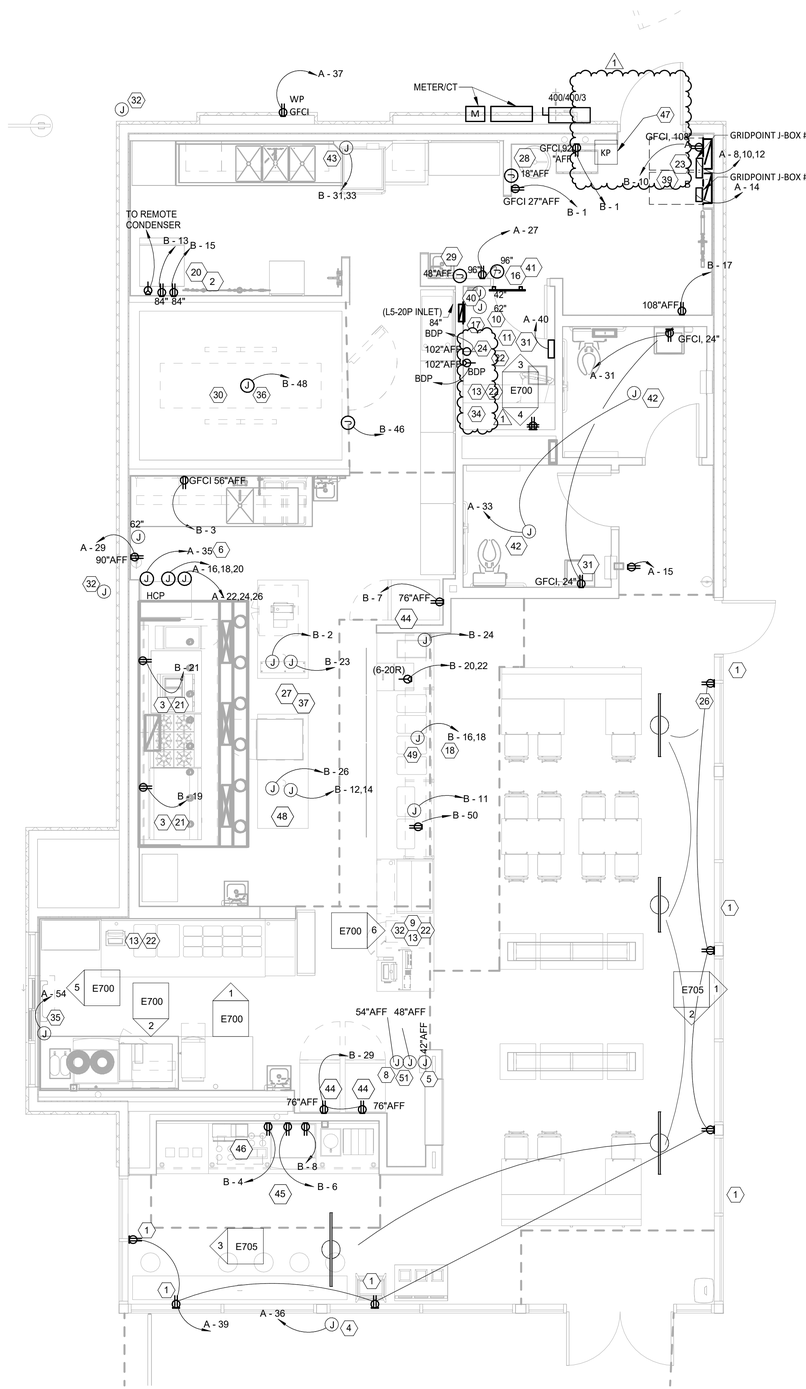
E103

ELECTRICAL POWER PLAN NOTES

1. SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRYWALL IMMEDIATELY ABOVE THE MAIN STORE-FRONT WINDOW AND AS SHOWN IN THE DINING ROOM ELECTRICAL ELEVATIONS ON SHEET E705.
2. ICE MACHINE ELECTRICAL TIE-IN. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE L5-20P FLANGED INLET WIRED TO THE REMOTE CONDENSER. PROVIDE 48" CORDS, ONE WITH 6-20P END AND ONE WITH L5-20R END, FROM ICE MAKER TO RECEPTACLE AND FLANGED INLET.
3. CONNECT RECEPTACLES SERVING EQUIPMENT BELOW THE KITCHEN HOOD TO THE CIRCUITS SHOWN THROUGH THE CONTACTOR INTEGRAL TO THE HOOD CONTROL PANEL. INTEGRAL CONTACTOR SHALL BE INTERLOCKED TO HOOD FIRE PROTECTION SYSTEM SO THAT RECEPTACLES ARE DE-ENERGIZED UPON ACTIVATION OF HOOD FIRE PROTECTION SYSTEM.
4. JUNCTION BOX FOR EXTERIOR SIGN LIGHTING. COORDINATE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER AND THE SIGN INSTALLER PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 5/E710.
5. PROVIDE 4" OCTAGONAL JUNCTION BOX WITH SCREW THREADS SET AT THE 2 & 8 O'CLOCK POSITIONS FOR THE ANSUL PULL STATION. PROVIDE A 1/2" CONDUIT FROM THE J-BOX TO 6" ABOVE THE CEILING AND TERMINATE WITH A CONDUIT BUSHING. COORDINATE EXACT LOCATION WITH THE ANSUL SYSTEM INSTALLER AND THE FIRE MARSHALL PRIOR TO ROUGH-IN.
6. HOOD CONTROL PANEL AND ANSUL CABINET SHALL BE LOCATED WITHIN THE INTEGRAL HOOD UTILITY CABINET. PROVIDE FINAL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
7. NOT USED.
8. PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL THE CAT5 VOLUME CONTROL WIRE FURNISHED BY THE TENANT FROM THE J-BOX TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END.
9. COORDINATE DATA/POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN.
10. PROVIDE ROUGH-IN FOR LAUNCHPORT AS NOTED AND INSTALL LAUNCHPORT FURNISHED BY CHIPOTLE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH THE WALLSTATION AT 62" AFF. PROVIDE A 4" X 2-1/8" DEEP OCTAGON J-BOX WITH 1-1/2" EXTENSION RING AT 62" AFF FOR THE WALLSTATION INSTALLATION WITH A 1" CONDUIT WITH PULL STRING FROM THE J-BOX TO ABOVE THE OFFICE CEILING..
11. PROVIDE AN EMPTY 2" CONDUIT WITH PULL STRING FROM THE BASE BUILDING'S TELEPHONE SERVICE ENTRANCE LOCATION TO THE SPACE ABOVE THE OFFICE CEILING.
12. PROVIDE A SUITABLE LENGTH OF LIQUID-TIGHT CONDUIT TO THE EXHAUST FAN EF-1 TO ALLOW THE EXHAUST FAN TO HINGE COMPLETELY OPEN WHEN THE VIROGUARD SYSTEM IS INSTALLED.
13. AFTER THE FAX LINE, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF RECEPTACLE COVERS ON UNUSED IG RECEPTACLES AT THE FAX LINE, POS, AND OFFICE.
14. PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSER CU-2.
15. UNIT SHALL HAVE AN INTEGRAL NON-FUSED DISCONNECT SWITCH.
16. INSTALL DOOR CHIME AT 96" AFF. SEE ARCHITECTURAL DOOR EQUIPMENT FOR EQUIPMENT INFORMATION.
17. INSTALL THE BYPASS DISTRIBUTION PANEL (BDP) FURNISHED BY THE TENANT. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAIL 3/E710.
18. ROUGH-INS TO SERVE LINE AND POS EQUIPMENT ARE UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
19. ROOFTOP UNIT SHALL HAVE AN INTEGRAL UNIT-MOUNTED GFCI RECEPTACLE. PROVIDE CONNECTION TO CIRCUIT SHOWN.
20. ICE MAKER RECEPTACLES SHALL BE CONCEALED BEHIND THE ICE MAKER. COORDINATE LOCATION WITH ACTUAL WIDTH OF ICE MAKER.
21. PROVIDE VERTICAL METAL DIE CAST WEATHERPROOF WHILE IN USE OUTLET COVER ON RECEPTACLES AT COOK LINE AND NEXT TO PREP TABLE. COVER SHALL BE INTERMATIC WP1010MXD FOR SINGLE GANG BOXES AND WP1030MXD FOR DOUBLE GANG BOXES. NO SUBSTITUTIONS SHALL BE ACCEPTED.
22. LABEL BATTERY-PROTECTED RECEPTACLES "BATTERY-PROTECTED: DISCONNECT AT PANEL BDP".
23. LABEL MAIN DISCONNECT SWITCH AND PANEL A "WARNING: BATTERY-PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL BDP."
24. PROVIDE A NEMA 5-20P FLANGED INLET (LEVITON MODEL #15378-C) AND A SINGLE NEMA 5-20R RECEPTACLE IN OFFICE FOR CONNECTION TO A CENTRAL UPS SYSTEM. CONNECT THE FLANGED INLET AND THE SINGLE RECEPTACLE TO THE TERMINAL BLOCK IN THE BDP PER THE MANUFACTURER'S INSTRUCTIONS. PROVIDE FINAL CONNECTION FROM FLANGED INLET TO THE OUTPUT OF THE UPS USING A 2'-LONG 20A EXTENSION CORD. PLUG THE UPS INTO THE SINGLE RECEPTACLE.
25. CONNECT RESTROOM EXHAUST FAN TO CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL PANEL (LCP).
26. INSTALL 16/2 SPEAKER WIRE FURNISHED BY OWNER. INSTALL SPEAKER WIRE BETWEEN SPEAKERS IN THE DINING ROOM AS SHOWN AND TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END. THERE SHALL BE TWO SPEAKER WIRE HOMERUNS WITH TWO SPEAKERS ON EACH HOMERUN. SEE ARCHITECTURAL PLANS FOR SPEAKER LOCATIONS. ADJUST EACH SPEAKER 70V TAP SETTING TO BE 15 WATTS..
27. PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTACLES IN TWO J-BOXES INTEGRAL TO PREP TABLE FOR HOT HOLDING CABINET AND GENERAL RECEPTACLE.
28. PROVIDE GFCI RECEPTACLE AND J-BOX AND INSTALL CO2 ALARM FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.
29. PROVIDE J-BOX AND INSTALL CO2 ALARM REMOTE DISPLAY UNIT FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.
30. INSTALL WALK-IN-COOLER EXTERNAL READOUT THERMOMETER REMOTE PROBE ON WALL OPPOSITE FROM DOOR AS SHOWN. ROUTE TEMPERATURE PROBE WIRE ABOVE WALK-IN COOLER CEILING PANELS, SEAL PENETRATIONS THROUGH THE CEILING PANELS, AND SECURE VERTICAL PROBE WIRE TIGHT TO WALLS. NO EXCESS PROBE WIRE SHALL BE WITHIN THE WALK-IN COOLER.
31. PROVIDE RECEPTACLE FOR RESTROOM HAND SINK FAUCET AS SHOWN IN DETAIL 14/P700.
32. PROVIDE 4" SQUARE J-BOX ON EXTERIOR WALL FOR MOUNTING OF EXTERIOR CAMERA. SEE ARCHITECTURAL ELEVATION FOR EXACT HEIGHT AND LOCATION. PROVIDE 3/4" CONDUIT WITH PULLSTRING FROM J-BOX TO ABOVE LAY-IN CEILING AREA IN KITCHEN. J-BOX SHALL NOT BE SURFACE MOUNTED. BASE OF CAMERA SHALL BE MOUNTED FLUSH TO EXTERIOR WALL FINISH.
33. PROVIDE 1" CONDUITS FROM LOW-VOLTAGE J-BOXES AT POS COUNTER CONCEALED WITHIN THE SERVE LINE WIRING CHASE TO THE WALL, THEN CONCEALED WITHIN THE WALL AND ABOVE THE CEILING TO ABOVE THE OFFICE CEILING.
34. PROVIDE WIRING FOR AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATORS . WIRE UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.. COORDINATE WITH MC FOR DETAILS.
35. INSTALL VEHICLE DETECTOR SYSTEM FURNISHED BY TLS SURFACE-MOUNTED ON WALL 12" BELOW CEILING AND CONNECT TO STROBE/CHIME AND DETECTOR LOOPS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAKE FINAL ADJUSTMENTS TO LOOP SENSITIVITY PER THE MANUFACTURER'S INSTRUCTIONS. ONCE ALL COMPONENTS ARE INSTALLED AND OPERATIONAL THE CHIME/STROBE LIGHT SHOULD STAY ILLUMINATED AND THERE SHOULD BE A SINGLE CHIME WHEN A VEHICLE DRIVES OVER OR STOPS ON EITHER LOOP.
36. SEAL INTERIOR AND EXTERIOR OF CONDUITS THAT PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.
37. PROVIDE ISLAND PREP TABLE FOOD WARMER RECEPTACLE WITH GROUND PIN TOWARDS THE BOTTOM OF THE RECEPTACLE.
38. INSTALL TRANSFORMER FURNISHED BY TUV WITH THE REME HALO AIR PURIFIER IN THE JUNCTION BOX ON THE EXTERIOR OF THE RTU PER DETAIL 6/M700. CONNECT LINE SIDE OF THE TRANSFORMER TO THE RTU SERVICE RECEPTACLE CIRCUIT SO THAT REME HALO RUNS CONTINUOUSLY. CONNECT THE LOW VOLTAGE SIDE OF THE TRANSFORMER TO THE REME HALO USING THE INCLUDED BARREL PLUG.
39. PROVIDE (2) 10"X10"X4" JUNCTION BOXES (J-BOX #1/J-BOX #2) ON THE WALL ABOVE PANELBOARDS 6" BELOW THE LAY-IN CEILING AND MOUNTED ADJACENT TO EACH. PROVIDE CONDUITS AND WIRING SHOWN IN DETAIL 8/E710. TEMS SHALL PROVIDE GRIDPOINT 3 PHASE METER AND TRANSFORMER WITHIN J-BOX #1 AND GRIDPOINT IOM/HUB WITHIN J-BOX #2. SEE GRIDPOINT INSTALLATION SHEET FOR DETAILS.
40. PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION. PROVIDE CONDUITS AND WIRING AS SHOWN IN DETAIL 8/E710.
41. INSTALL WIRED DOOR BUZZER AT 96" AFF. SEE ARCHITECTURAL DOOR EQUIPMENT FOR EQUIPMENT INFORMATION. CONNECT TO CIRCUIT SHOWN THROUGH THE TRANSFORMER FURNISHED WITH THE DOOR BUZZER. PROVIDE WIRING TO A BUTTON ADJACENT TO THE SERVICE DOOR AND CONNECT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
42. CONNECT BATHROOM SANITIZER TO CIRCUIT SHOWN SO THAT IT IS ENERGIZED AT ALL TIMES.
43. PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO DISH SANITIZING MACHINE PER DETAIL 7/E710. CONNECT THE DETERGENT DISPENSER TO THE DISH MACHINE USING THE INCLUDED WIRING HARNESS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
44. PROVIDE RECEPTACLE FOR 2-DOOR AND 1-DOOR REFRIGERATORS WITH GROUND PINS TOWARDS THE BOTTOM OF THE RECEPTACLE.
45. PROVIDE CORD AND NEMA 5-20P PLUG FROM UTENSIL COUNTER ICE MAKER, THROUGH UTENSIL COUNTER, TO ICE MAKER RECEPTACLE.
46. LABEL UTENSIL COUNTER RECEPTACLES "TRACTOR BEVERAGE", "ICE MAKER/IMSB", AND "SODA FOUNTAIN".
47. LABEL RECEPTACLE "UV INSECT TRAP".
48. PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTACLE IN THE J-BOX INTEGRAL TO PREP TABLE FOR UNDERCOUNTER REFRIGERATOR. PROVIDE FINAL CONNECTION TO CARVING STATION HEATER.
49. IF NEUTRAL CONDUCTOR IS NOT NEEDED FOR SERVE LINE HOT FOOD SERVER TERMINATE NEUTRAL IN JUNCTION BOX.
50. PROVIDE A TWO-CONDUCTOR LOW VOLTAGE WIRE FROM MAU-1 TO THE HOOD CONTROL PANEL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
51. PROVIDE SINGLE-GANG J-BOX FOR DATA JACK AS SHOWN FOR KRONOS TIME CLOCK.



2 E110 **POWER ROOF PLAN**
1/8" = 1'-0"



1 E110 **POWER FLOOR PLAN**
1/4" = 1'-0"

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CERTIFICATE OF AUTHORITY NO. F-20080

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REVISION 1 - 7/1/24

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Issue Record:

5/30/2024	COMBINE PERMIT SET

Revisions:

1	07/03/24	CITY COMMENTS

Drawn: JJV
Checked: BW

Project No.: CMG5134

Contents:

ELECTRICAL POWER PLAN

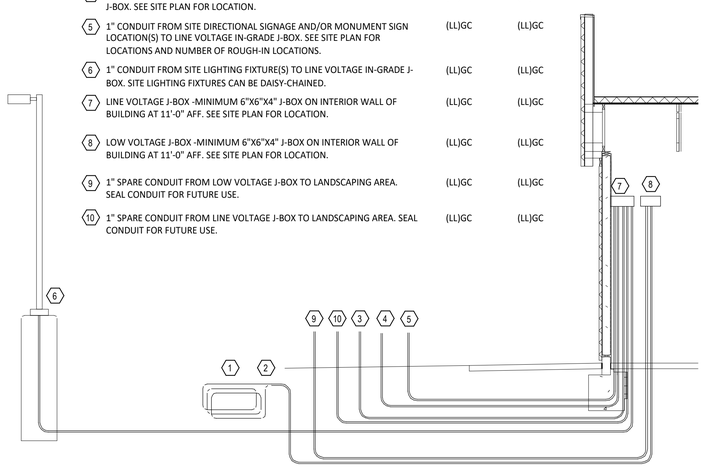
E110

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CERTIFICATE OF AUTHORITY NO. F-20080

TAG	DESCRIPTION	RESPONSIBILITY: DEVICE OR CONDUIT	RESPONSIBILITY: CONNECTION OR CONDUCTORS
1	VEHICLE DETECTOR LOOP - 6'x4' WITH 4 TURNS (EMX PR-46-XX). VERIFY LENGTH OF LEAD-IN WIRE PRIOR TO ORDERING TO ALLOW WIRE TO REACH VEHICLE DETECTOR WITHOUT SPLICING. SEE SITE PLAN FOR LOCATIONS.	(LL)GC	(LL)GC
2	1" CONDUIT FROM VEHICLE DETECTOR LOOP LOCATION TO VEHICLE DETECTOR IN-GRADE J-BOX.	(LL)GC	(LL)GC
3	1" CONDUIT FROM MARKETING BOARD LOCATION TO LINE VOLTAGE IN-GRADE J-BOX. SEE SITE PLAN FOR LOCATION.	(LL)GC	(LL)GC
4	1" CONDUIT FROM CLEARANCE BAR LOCATION TO LINE VOLTAGE IN-GRADE J-BOX. SEE SITE PLAN FOR LOCATION.	(LL)GC	(LL)GC
5	1" CONDUIT FROM SITE DIRECTIONAL SIGNAGE AND/OR MONUMENT SIGN LOCATION(S) TO LINE VOLTAGE IN-GRADE J-BOX. SEE SITE PLAN FOR LOCATIONS AND NUMBER OF ROUGH-IN LOCATIONS.	(LL)GC	(LL)GC
6	1" CONDUIT FROM SITE LIGHTING FIXTURE(S) TO LINE VOLTAGE IN-GRADE J-BOX. SITE LIGHTING FIXTURES CAN BE DAISY-CHAINED.	(LL)GC	(LL)GC
7	LINE VOLTAGE J-BOX -MINIMUM 6"X6"X4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. SEE SITE PLAN FOR LOCATION.	(LL)GC	(LL)GC
8	LOW VOLTAGE J-BOX -MINIMUM 6"X6"X4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. SEE SITE PLAN FOR LOCATION.	(LL)GC	(LL)GC
9	1" SPARE CONDUIT FROM LOW VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.	(LL)GC	(LL)GC
10	1" SPARE CONDUIT FROM LINE VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.	(LL)GC	(LL)GC

GENERAL NOTES

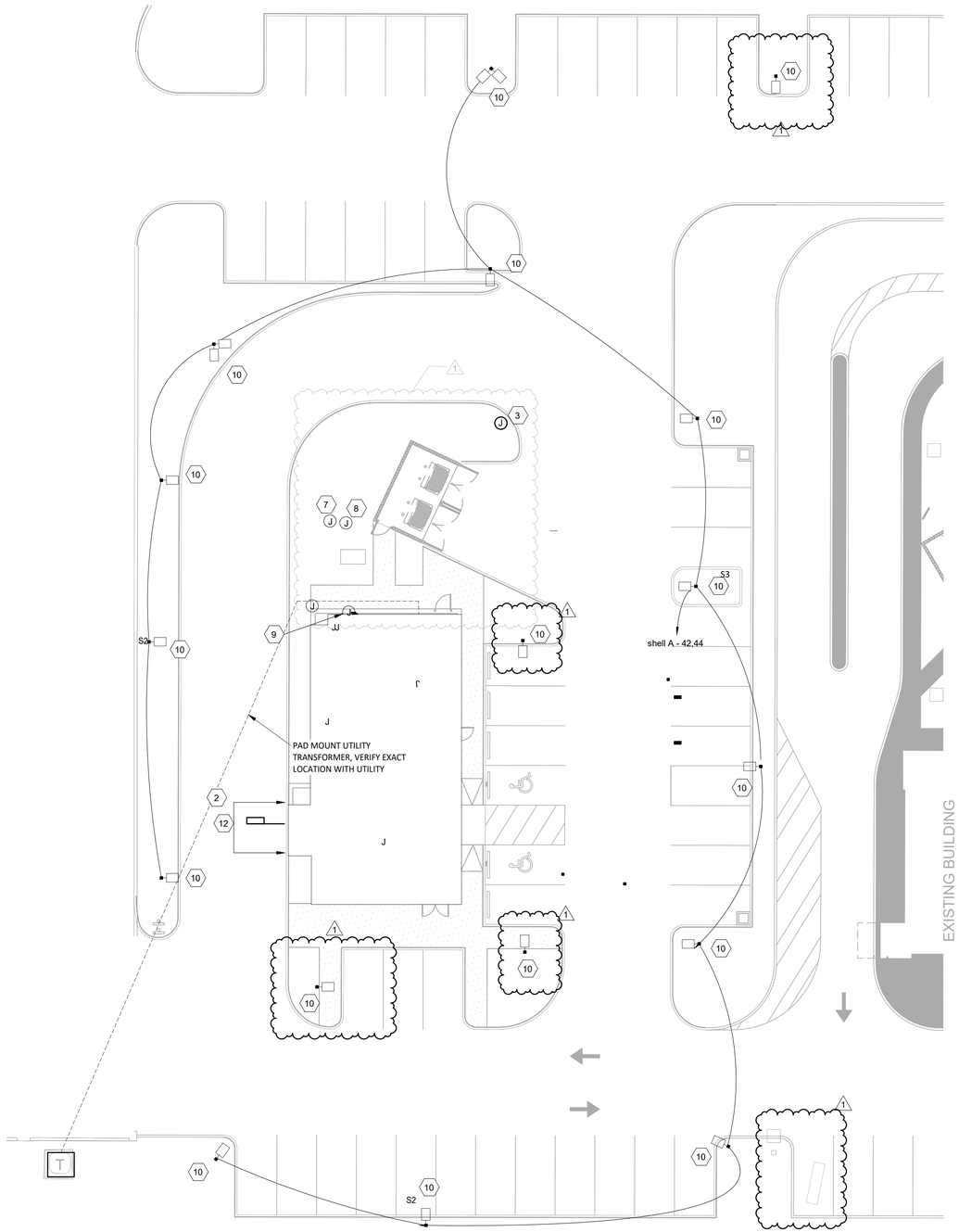
A. WORK AND MATERIALS SHALL BE COMPLIANT WITH THE NEC AND REQUIREMENTS OF THE AHJ.
B. CONDUCTORS AND CONNECTIONS BELOW GRADE, EVEN WHERE WITHIN CONDUITS OR ENCLOSURES, SHALL BE SUITABLE FOR WET LOCATIONS.
C. PROVIDE PULL STRING IN EMPTY CONDUITS.
D. SEAL ENDS OF CONDUITS STUBBED UP ABOVE GRADE TO PROTECT FROM THE ELEMENTS.



2 / E115 **SITE CONDUIT DETAIL**
NTS

ELECTRICAL POWER PLAN NOTES

1. NOT USED.
2. INSTALL VEHICLE DETECTION LOOP FURNISHED BY TLS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALIGN DETECTOR LOOP TO BE CENTERED ON THE PICK-UP WINDOW.
3. CONNECT ANNOUNCE SIGN TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 5/E710. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
4. CONNECT DIRECTIONAL SIGN TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 5/E710. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
5. NOT USED.
6. NOT USED..
7. EXISTING 1" SPARE LOW-VOLTAGE CONDUIT. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
8. EXISTING 1" SPARE LINE-VOLTAGE CONDUIT. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
9. INTERIOR J-BOXES AT 11'-0" AFF FOR LINE VOLTAGE AND LOW VOLTAGE SITE WIRING. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
10. SITE LIGHTING, LL TO PROVIDE FIXTURE, POLE, AND BASE. EC TO CIRCUIT AS INDICATED. ROUTE CIRCUIT THRU LIGHTING CONTROL SYSTEM, REFER TO DETAIL 5/E710.



1 **SITE POWER PLAN**
SCALE: 1" = 15'-0"

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REVISION 1 - 7/1/24

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Issue Record:

05/30/2024	COMBINE PERMIT SET

Revisions:

1	07/03/24	CITY COMMENTS

Drawn: JJV
Checked: BW

Project No.: CMG5134

Contents:

ELECTRICAL SITE POWER PLAN

E115

Branch... BDP

Location: | **Volts:** 120 | **A.I.C. Rating:**
Supply From: | **Phases:** 1 | **Mains Type:** Lugs
Mounting: | **Wires:** 2 | **Mains...** 20
Enclosure:

Notes:

CKT	Circuit Description	TYPE	Trip	Pole	Load
1	POS		15 A	1	500 VA
2	DML POS		15 A	1	500 VA
3	DML ORDERING SYSTEM		15 A	1	720 VA
4	OFFICE NETWORK GEAR		15 A	1	500 VA
5	OFFICE COMPUTER		15 A	1	360 VA
6	OFFICE DVR/ISP	GFCI	15 A	1	360 VA
				CH	1000 VA
				Total...	

Legend:

Notes:

JOB NAME:

PANELBOARD: A

VOLTS : 120/208 Wye
PHASE : 3
WIRES: 4
MLO: 400
MCB: 400
SOURCE:

MOUNTING: Recessed
TYPE: Type 1
FEED THRU LUGS(Y/N): Y
SERIES RATED(Y/N):
SHUNT TRIP MAIN:
MINIMUM AIC RATING: 65KAIC

BUS MATERIAL: CU
TOP OR BOTTOM FEED:
GROUND BUS:
BRANCH BREAKERS:
S.E. RATED(Y/N):
NEUTRAL RATING(%):

CKT#	AMP	Pole	TYPE	Load Name	KVA	A	B	C	KVA	Load Name	TYPE	Pole	AMP	CKT#
1,3,5						5040 VA / 0 VA								2,4,6
	60 A	3	HAC R	AIR CONDITIONER - KITCHEN (RTU-1) (3-#6, #8 G. in 1" C.) SHUNT TRIP	15.1 kVA		5040 VA / 0 VA		0.0 kVA	TVSS (4-#6, #10 G. IN 1" C.)		3	60 A	
								5040 VA / 0 VA						
7	--	1	--	SHUNT TRIP	--	0 VA / 0 VA								8,10,12
9,11,13							5880 VA / 0 VA		0.0 kVA	GRIDPOINT 3 PHASE METE (4-#12, #12 G. IN 3/4" C.)		3	20 A	
	60 A	3	HAC R	AIR CONDITIONER - DINING ROOM (RTU-2) (3-#6, #8 G. in 1" C.)	17.6 kVA			5880 VA / 0 VA						
						5880 VA / 200 VA			0.2 kVA	GRIDPOINT TRANSFORMER		1	20 A	14
15	20 A	1		RECEPTACLES - DINING	0.5 kVA		500 VA / 1200 VA							16,18,20
17	20 A	1		BDP	0.0 kVA			0 VA / 1200 VA	3.6 kVA	HOOD EXHAUST FAN (EF□1) (3□#10, #10 G. IN 3/4" C)		3	30 A	
19	20 A	1		CONV REC	1.5 kVA	1500 VA / 1200 VA								
21	20 A	1		REC POS	1.5 kVA		1500 VA / 708 VA							22,24,26
23	20 A	1		AUDIO	0.5 kVA			500 VA / 708 VA	2.1 kVA	HOOD MAKEUP AIR FAN (MAU□1) (3□#12, #12 G. IN 3/4" C)		3	15 A	
25	20 A	1		SECURITY/	0.5 kVA	500 VA / 708 VA								
27	20 A	1	GFCI	OFFICE REC	1.2 kVA		1220 VA / 0 VA		0.0 kVA	RESTROOM FAN		1	20 A	28
29	20 A	1	GFCI	RECEPTACLES - DML	1.2 kVA			1220 VA / 505 VA	0.5 kVA	DINING LTG		1	20 A	30
31	20 A	1		RESTROOM REC	1.0 kVA	1000 VA / 561 VA			0.6 kVA	KITCHEN LTG	GFCI	1	20 A	32
33	20 A	1		BATHROOM SANITIZER	1.0 kVA		1000 VA / 684 VA		0.7 kVA	KITCHEN BOH LTG		1	20 A	34
35	15 A	1		HD-1 CONTOL AND LIGHTS	0.1 kVA			100 VA / 500 VA	0.5 kVA	STOREFRONT SIGN		1	20 A	36
37	20 A	1		IRRIGATION CONTROLLER	0.5 kVA	500 VA / 1060 VA			1.1 kVA	EXTERIOR LTG		1	20 A	38
39	20 A	1		SHOW WINDOW REC	3.0 kVA		3000 VA / 100 VA		0.1 kVA	LCP		1	20 A	40
41	20 A	1	--	SPARE	--			0 VA / 500 VA	0.5 kVA	PICKUP WINDOW	GFCI	1	20 A	42
43	20 A	1	--	SPARE	--	0 VA / 250 VA			0.5 kVA	PUW AIR CURTAIN (2-#10, #10 G. IN 3/4" C.)	GFCI	2	20 A	44,46
45	20 A	1	--	SPARE	--		0 VA / 250 VA							
47	20 A	1	--	SPARE	--			0 VA / 0 VA						48
49	20 A	1	--	SPARE	--	0 VA / 0 VA								50
51	20 A	1	--	SPARE	--		0 VA / 0 VA							52
53	20 A	1	--	SPARE	--			0 VA / 674 VA	0.7 kVA	EMERGENCY/EGRESS/NIGHT LIGHTS		1	20 A	54
55	20 A	1	--	SPARE	--	0 VA / 0 VA			--	SPARE	--	1	20 A	56
57	20 A	1	--	SPARE	--		0 VA / 0 VA		--	SPARE	--	1	20 A	58
59	20 A	1	--	SPARE	--			0 VA / 0 VA	--	SPARE	--	1	20 A	60
					CONNECTED LOAD:	39.5 kVA	34.8 kVA	34.9 kVA						
					CONNECTED AMPS:	328.9 A	290.2 A	290.6 A						

				PANEL TOTALS`	
LIGHTING	5682 VA		7103 VA		
RECEPTACLE	3900 VA		3900 VA		
KITCHEN	61380 VA		39897 VA		
MOTOR	2124 VA		2655 VA	**TOTAL CONNECTED LOAD:**	302 A
WATER HEATER				**TOTAL ESTIMATED DEMAND:**	89317 VA
HVAC	32760 VA		32760 VA	**TOTAL EST. DEMAND CURRENT:**	248 A

JOB NAME:

PANELBOARD: B

VOLTS : 120/208 Wye
PHASE : 3
WIRES: 4
MLO: 400
MCB:
SOURCE:

MOUNTING: Recessed
TYPE: Type 1
FEED THRU LUGS(Y/N): --
SERIES RATED(Y/N):
SHUNT TRIP MAIN:
MINIMUM AIC RATING: 65KAIC

BUS MATERIAL: CU
TOP OR BOTTOM FEED:
GROUND BUS:
BRANCH BREAKERS:
S.E. RATED(Y/N):
NEUTRAL RATING(%):

CKT#	AMP	Pole	TYPE	Load Name	KVA	A	B	C	KVA	Load Name	TYPE	Pole	AMP	CKT#
1	20 A	1	GFCI	CARBONATOR/CO2 ALARM	1.0 kVA	1000 VA / 1400 VA			1.4 kVA	FOOD PREP TABLE (ISLAND)		1	20 A	2
3	20 A	1		FOOD PREP TABLE	0.5 kVA		500 VA / 500 VA		0.5 kVA	SODA SYSTEM DISPENSER	GFCI	1	20 A	4
5								0 VA / 500 VA	0.5 kVA	ICE MAKER - UTENSIL COUNTER	GFCI	1	20 A	6
7	20 A	1	GFCI	REACH-IN REFRIGERATOR	0.5 kVA	500 VA / 500 VA			0.5 kVA	BUBBLER	GFCI	1	20 A	8
9	20 A	1	GFCI	READY TO DRINK	0.5 kVA		500 VA / 500 VA		0.5 kVA	UV INSECT LIGHT TRAP	GFCI	1	20 A	10
11	20 A	1		COLD TOP (SERVE LINE)	1.4 kVA			1400 VA / 1000 VA	2.0 kVA	CARVING STATION		2	20 A	12,14
13	20 A	1	GFCI	ICE MAKER SANITIZER	0.5 kVA	500 VA / 1000 VA								
15	20 A	1	GFCI	ICE MAKER	0.5 kVA		500 VA / 2100 VA		4.2 kVA	HOT FOOD SERVER (SERVE LINE) (2□#10, #10 N, #10 G. in 3/4" C.)		2	30 A	16,18
17	20 A	1	GFCI	WATER HEATERS	0.5 kVA			500 VA / 2100 VA						
19	20 A	1	GFCI	GAS GRIDDLE	0.5 kVA	500 VA / 1400 VA			2.8 kVA	TORTILLA PRESS (SERVE LINE) (2-#10, #10 G. in 3/4" C.)	GFCI	2	20 A	20,22
21	20 A	1	GFCI	GAS FRYER	0.5 kVA		500 VA / 1400 VA							
23	15 A	1		FOOD WARMER (RICE TABLE	1.5 kVA			1500 VA / 800 VA	0.8 kVA	FUTURE EQUIPMENT		1	20 A	24
25,27	20 A	2	GFCI	TORTILLA PRESS (DML) (2-#10, #10 G. IN 3/4" C.)	2.6 kVA	1300 VA / 300 VA			0.3 kVA	REFRIGERATOR (COOK LINE)		1	20 A	26
								1300 VA / 1040 VA	2.1 kVA	HOT FOOD SERVER (DML) (2□#10, #10 N, #10 G. in 3/4" C.)	GFCI	2	20 A	28,30
29	20 A	1	GFCI	UPRIGHT REFRIGERATOR	1.0 kVA			1000 VA / 1040 VA						
31,33	30 A	2		DISH MACHINE (2-#10, #10 G. IN 3/4" C.)	6.0 kVA	3000 VA / 1404 VA			1.4 kVA	FOODWARMER (DML)	GFCI	1	20 A	32
							3000 VA / 500 VA		0.5 kVA	COLD TOP (DML)	GFCI	1	20 A	34
35,37	30 A	2	GFCI	QUESADILLA MAKER (2-#10, #10 G. IN 3/4" C.)	5.8 kVA			2900 VA / 900 VA	2.7 kVA	CU-1 (3-#10, #10 G. IN 3/4" C.)		3	15 A	36,38,40
						2900 VA / 900 VA								
39	20 A	1	GFCI	UNDER COUNTER COOLER	0.5 kVA		500 VA / 900 VA							
41,43	30 A	2	GFCI	QUESADILLA MAKER (2-#10, #10 G. IN 3/4" C.)	5.8 kVA			2900 VA / 1500 VA	1.5 kVA	ICE MACHINE	GFCI	1	20 A	42
						2900 VA / 500 VA			0.5 kVA	SODA MACHINE	GFCI	1	20 A	44
45	20 A	1	--	SPARE	--		0 VA / 0 VA		0.0 kVA	WIC - DOOR		1	20 A	46
47	20 A	1	--	SPARE	--			0 VA / 0 VA	0.0 kVA	WIC - EVAPORATOR		1	20 A	48
49	20 A	1	--	SPARE	--	0 VA / 1056 VA			1.1 kVA	READY TO DRINK REFRIGERATOR	GFCI	1	20 A	50
51	20 A	1	--	SPARE	--		0 VA / 0 VA		--	SPARE	--	1	20 A	52
53	20 A	1	--	SPARE	--			0 VA / 0 VA	--	SPARE	--	1	20 A	54
					CONNECTED LOAD:	21.1 kVA	13.7 kVA	18.0 kVA						
					CONNECTED AMPS:	181.0 A	114.5 A	155.8 A						

				PANEL TOTALS`	
LIGHTING	0 VA		0 VA		
RECEPTACLE					
KITCHEN	52840 VA		34346 VA		
MOTOR				**TOTAL CONNECTED LOAD:**	147 A
WATER HEATER				**TOTAL ESTIMATED DEMAND:**	34346 VA
HVAC				**TOTAL EST. DEMAND CURRENT:**	95 A

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SEAL

STATE OF TEXAS
MATTHEW RICHARD CASE
128362
LICENSED PROFESSIONAL ENGINEER

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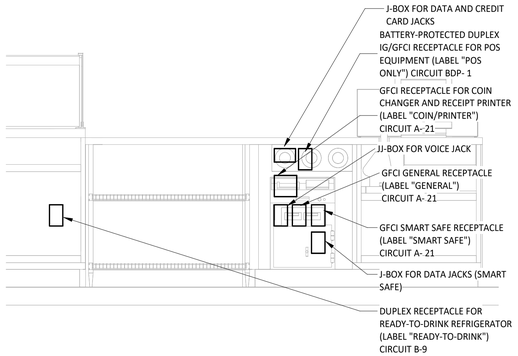
Revisions:

Drawn: JJV
Checked: BW

Project No.
CMG5134

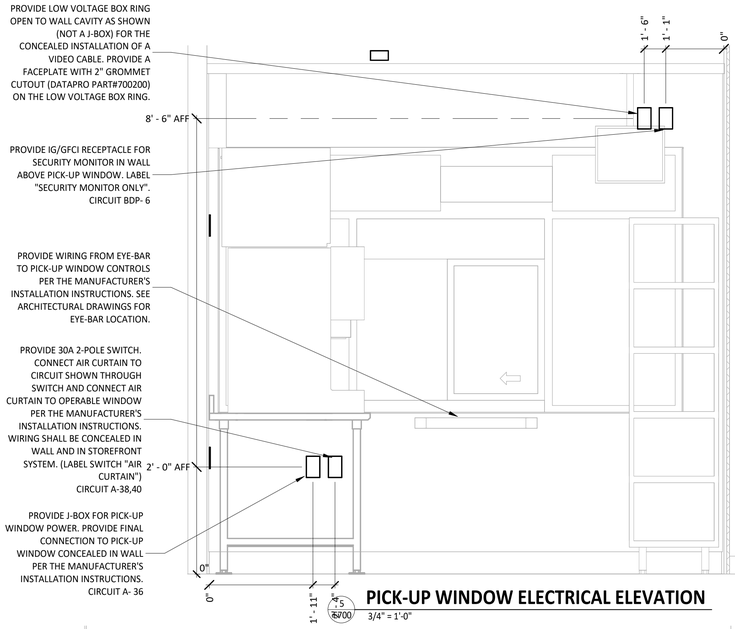
Contents:
ELECTRICAL SCHEDULES

E600



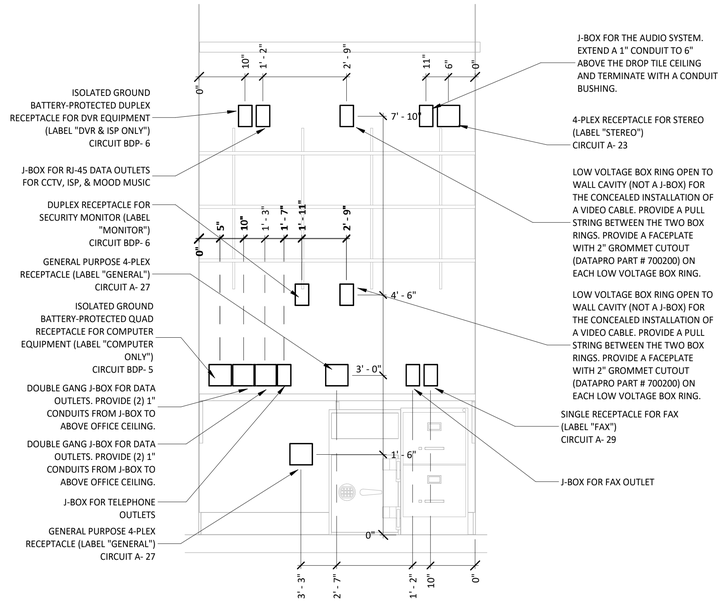
6 E700 POS COUNTER ELECTRICAL ELEVATION

3/4" = 1'-0"



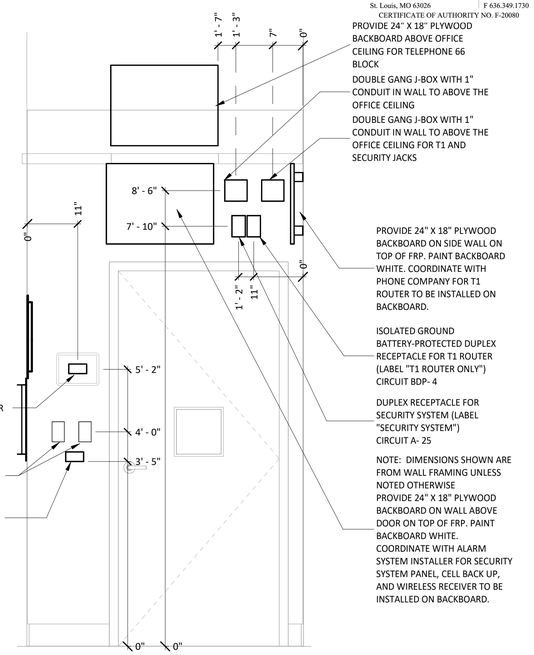
PICK-UP WINDOW ELECTRICAL ELEVATION

3/4" = 1'-0"



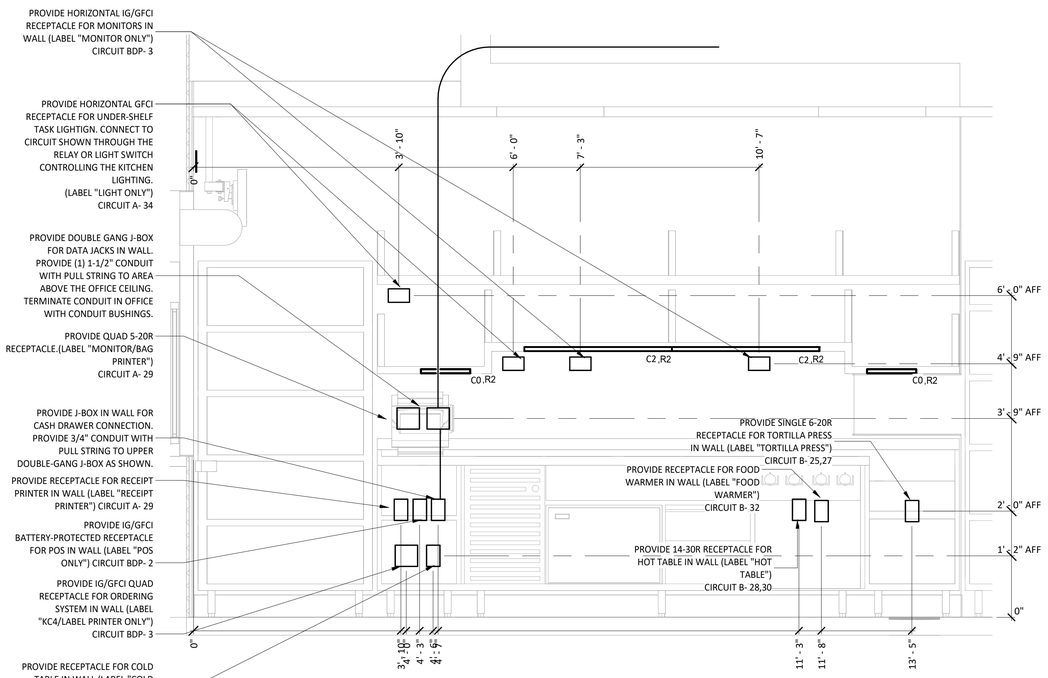
4 E700 OFFICE DESK ELECTRICAL ELEVATION

3/4" = 1'-0"



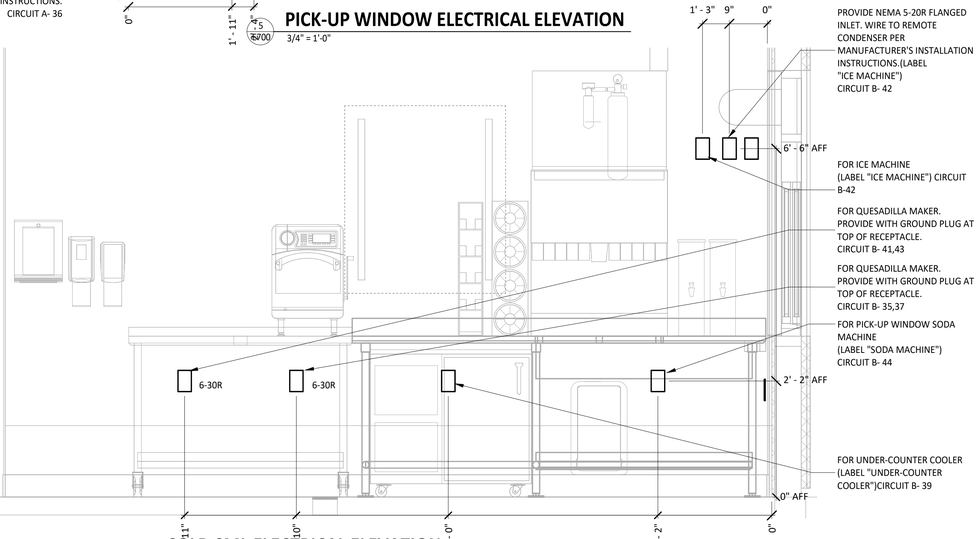
3 E700 OFFICE DOOR ELECTRICAL ELEVATION

3/4" = 1'-0"



1 E700 DML ELECTRICAL ELEVATION

3/4" = 1'-0"



2 E700 COLD SML ELECTRICAL ELEVATION

3/4" = 1'-0"

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Issue Record:

5/30/2024	COMBINE PERMIT SET

Revisions:

Drawn: JJV
Checked: BW

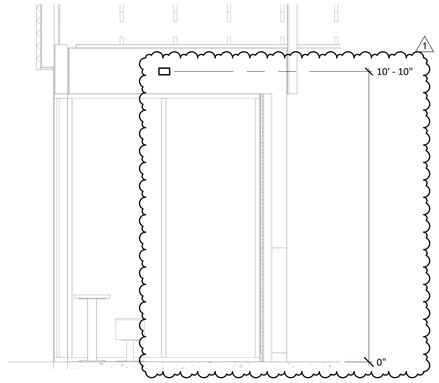
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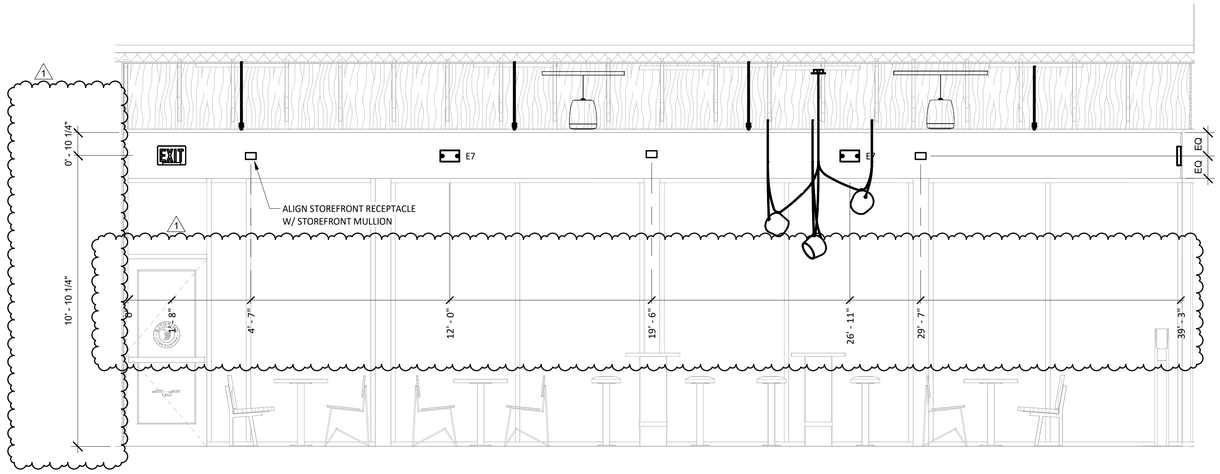
ELECTRICAL INTERIOR ELEVATIONS

E700

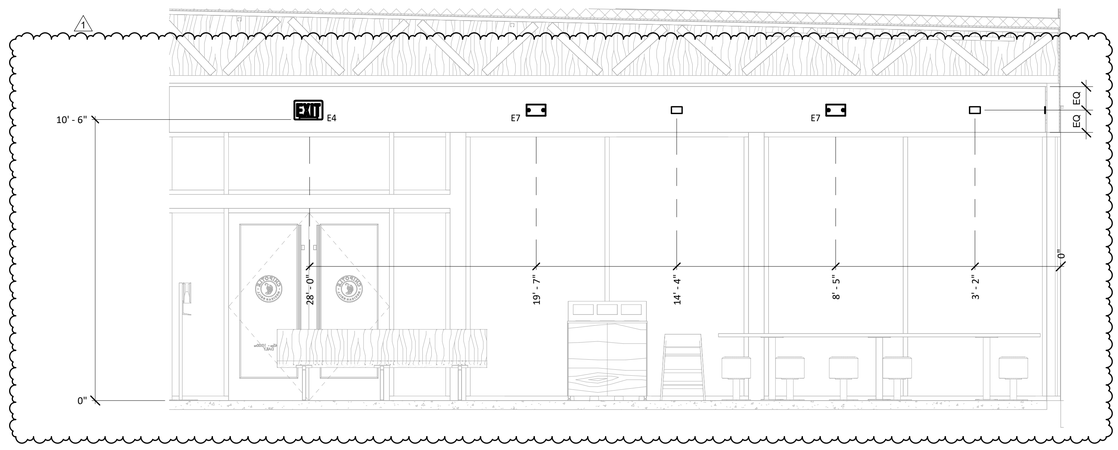
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3 E705 **DINING ROOM ELECTRICAL ELEVATION**
3/8" = 1'-0"



1 E705 **DINING ROOM ELECTRICAL ELEVATION**
3/8" = 1'-0"



2 E705 **DINING ROOM ELECTRICAL ELEVATION**
3/8" = 1'-0"

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Issue Record:
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Revisions:
1 07/03/24 CITY COMMENTS

Drawn: JJV
Checked: BW

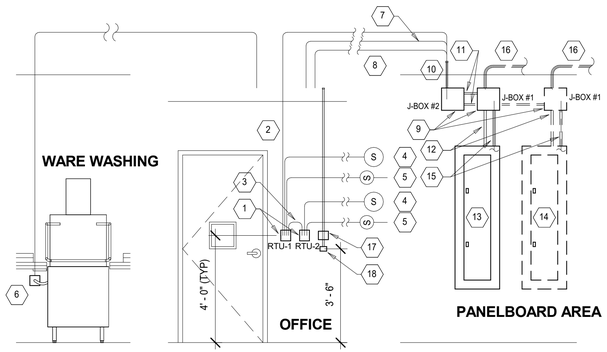
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CMG5134

Contents:
ELECTRICAL INTERIOR ELEVATIONS

E705

GRIDPOINT DIAGRAM NOTES

1. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2. PROVIDE THERMOSTAT WIRING FROM EACH THERMOSTAT TO THE CORRESPONDING ROOFTOP UNIT.
2. PROVIDE CAT5E CABLE FROM RTU-1 THERMOSTAT TO J-BOX #2 ABOVE ELECTRICAL PANELS (LEAVE 16" OF CABLE COILED UP INSIDE OF J-BOX #2 AND 16" BEHIND WALL OF THERMOSTAT FOR FINAL CONNECTION TO THE EMS SYSTEM BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTATS".
3. PROVIDE CAT5E CABLE(S) BETWEEN THERMOSTATS (LEAVE 16" OF CABLE BEHIND WALL OF EACH THERMOSTAT FOR FINAL CONNECTION BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTAT JUMPER". SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
4. INSTALL GRIDPOINT ZONE SENSOR MODULES FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO CORRESPONDING THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
5. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO CORRESPONDING THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
6. PROVIDE 3/4" LIQUIDTIGHT CONDUIT FROM DISH SANITIZING MACHINE TO LOW-VOLTAGE JUNCTION BOX OR TRIM RING FLUSH MOUNTED TO WALL. PROVIDE CONTINUOUS (NOT SPLICED) CAT5E CABLE FROM DISH SANITIZING MACHINE TO OFFICE (ABOVE LAY-IN CEILING) WITH 54" SLACK WITHIN THE DISH MACHINE AND 10' SLACK ABOVE THE LAY-IN CEILING. PROVIDE RJ-12 PLUG ON CABLE AT DISH MACHINE END WITH BLUE WIRE CONNECTED TO PIN 3 AND BLUE/WHITE WIRE CONNECTED TO PIN 4. LABEL CABLE ON BOTH ENDS WITH "DISHWASHER".
7. PROVIDE CAT5 CABLE FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "RS-485 COMMS" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
8. PROVIDE CABLE (18-24AWG SHIELDED TWISTED PAIR) FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "EMS POWER" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
9. PROVIDE SURFACE MOUNT 10" X 10" X 4" NEMA 1 ENCLOSURES ABOVE PANELBOARDS AND 6" BELOW CEILING.
10. PROVIDE 3/4" CONDUIT WITH INSULATING BUSHING ON END CONCEALED IN WALL FROM J-BOX #2 TO 6" ABOVE LAY-IN CEILING.
11. PROVIDE 3/4" CONDUIT(S) FROM J-BOX #1 TO J-BOX #2
12. PROVIDE EMPTY 1" CONDUIT(S) FROM PANELBOARD(S) TO J-BOX #1 FOR FUTURE CT WIRING BY TEMS.
13. FIRST PANELBOARD FED FROM ELECTRICAL SERVICE. PROVIDE WITH (1) 20A/3-POLE CIRCUIT BREAKER (FOR GRIDPOINT 3 PHASE METER). IF PANELBOARD HAS 120V CIRCUITS AVAILABLE THEN ALSO PROVIDE (1) 20/1-POLE CIRCUIT BREAKER (FOR GRIDPOINT TRANSFORMER)
14. IF SPACE HAS MULTIPLE ELECTRICAL SERVICES THEN PROVIDE A "J-BOX #1" AND ASSOCIATED BREAKERS, CONDUITS, AND CONDUCTORS ON THE FIRST PANELBOARD FED FROM EACH ELECTRICAL SERVICE.
15. FOR EACH ELECTRICAL SERVICE PROVIDE (1) SET OF [(4) #12, #12 G.] FROM 3-POLE GRIDPOINT CIRCUIT BREAKER AND, IF THE PANELBOARD HAS 120V CIRCUITS AVAILABLE, (1) SET OF [(2) #12, #12 G.] FROM 1-POLE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
16. IF THE PANELBOARD DOES NOT HAVE 120V CIRCUITS AVAILABLE PROVIDE A 1-POLE 120V 20A CIRCUIT BREAKER IN A PANEL WITH A 120V CIRCUIT AVAILABLE. PROVIDE (1) SET OF [(2) #12, #12 G.] FROM THE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
17. GRIDPOINT CONTROLLER PROVIDED BY TEMS
18. PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION AS SHOWN. PROVIDE 3/4" CONDUIT WITH PULL STRING AND INSULATING BUSHING FROM J-BOX TO 6" ABOVE OFFICE LAY-IN CEILING.

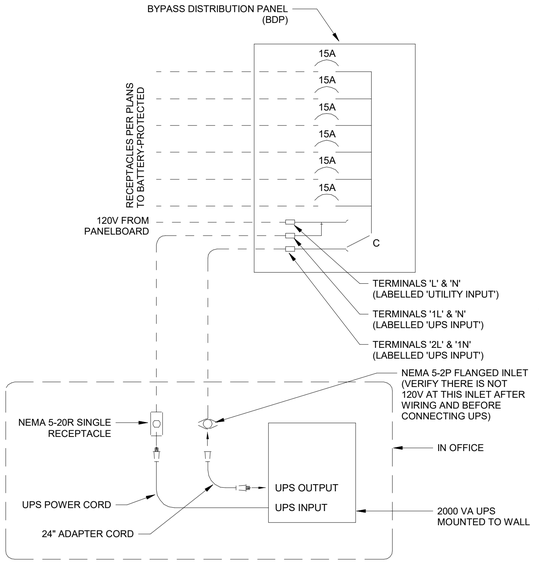


GRIDPOINT WIRING DIAGRAM

8 / E710 — NTS

3 Phase Short Circuit Calculation

A_x	I_{sc} at Source	65000	f =	2.1976	
	Conductor C Value	19703	M =	0.3127	
	#. of Conductor/Phase	1	I_{sc}	20328	B_x
	Length of Feeder	80			
	Line to Line Voltage	208			

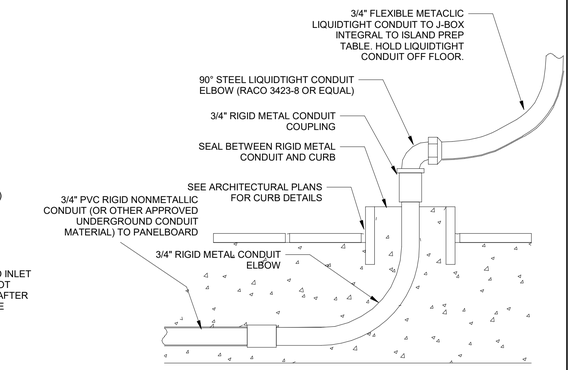


LEGEND
PREWIRED CONDUCTOR
FIELD-WIRED CONDUCTOR

NOTE:
REVIEW BDP PANEL INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION

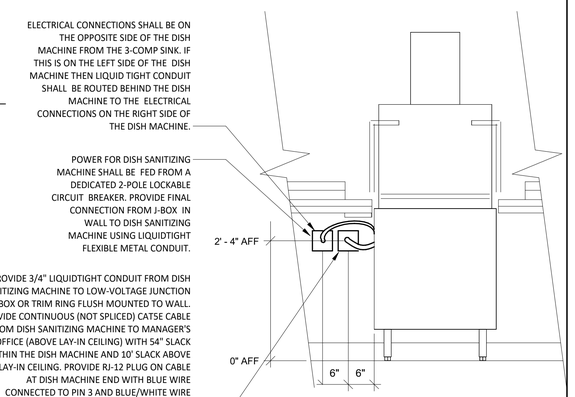
BYPASS DISTRIBUTION PANEL WIRING DIAGRAM

3 / E710 — 12" = 1'-0"



PEDESTAL OUTLET DETAIL

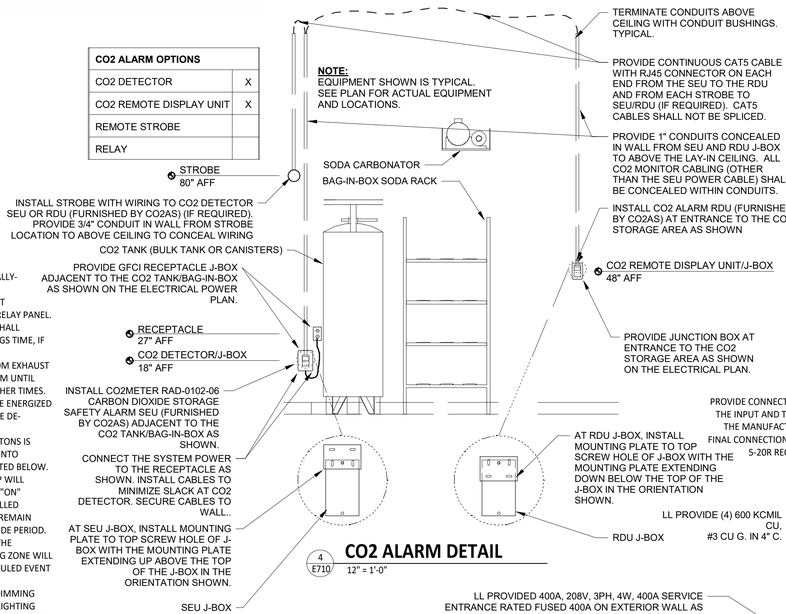
2 / E710 — 12" = 1'-0"



DISH SANTIZING MACHINE ELECTRICAL DETAIL

7 / E710 — NTS

CO2 ALARM OPTIONS	
CO2 DETECTOR	X
CO2 REMOTE DISPLAY UNIT	X
REMOTE STROBE	
RELAY	

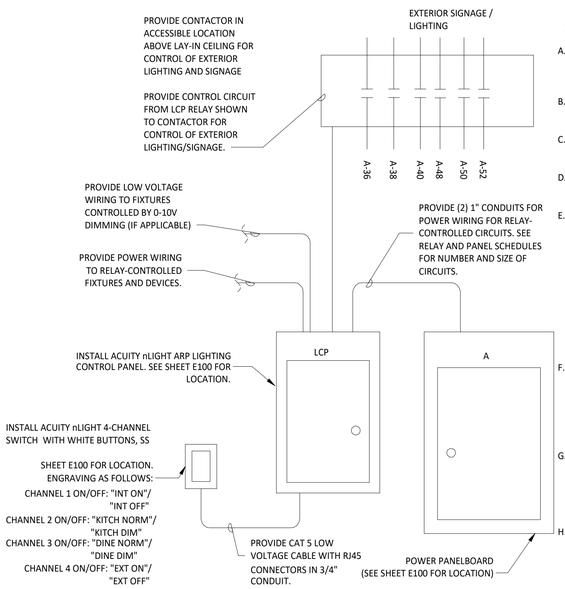


CO2 ALARM DETAIL

4 / E710 — 12" = 1'-0"

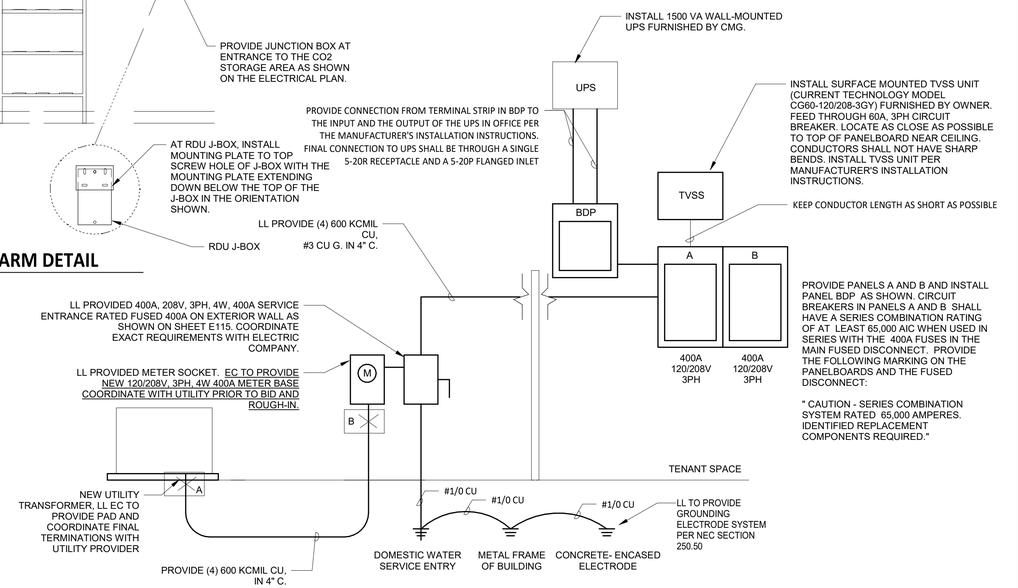
SEQUENCE OF OPERATIONS

A. EMERGENCY LIGHT FIXTURES, EXIT SIGNS, LOCALLY-SWITCHED FIXTURES, AND FIXTURES DESIGNATED AS NIGHT LIGHTS ARE NOT CONTROLLED THROUGH THE RELAY PANEL.
B. ALL TIMES NOTED SHALL BE LOCAL TIME AND SHALL AUTOMATICALLY ADJUST FOR DAYLIGHT SAVINGS TIME, IF APPLICABLE.
C. ALL KITCHEN LIGHTING CIRCUITS AND RESTROOM EXHAUST FAN CIRCUIT SHALL BE ENERGIZED FROM 7:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
D. ALL DINING ROOM LIGHTING CIRCUITS SHALL BE ENERGIZED FROM 10:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
E. OVERRIDES: WHEN ONE OF THE OVERRIDE BUTTONS IS PRESSED (BUTTONS 1-2) THE SYSTEM WILL GO INTO OVERRIDE MODE FOR ONE (1) HOUR OR AS NOTED BELOW. DURING THIS TIME THE CORRESPONDING LAMP WILL ILLUMINATE ON THE OVERRIDE BUTTON. IF AN "ON" BUTTON IS PRESSED THEN ALL OF THE CONTROLLED FIXTURES IN THE CORRESPONDING ZONE WILL REMAIN ENERGIZED FOR THE DURATION OF THE OVERRIDE PERIOD. IF AN "OFF" BUTTON IS PRESSED THEN ALL OF THE CONTROLLED FIXTURES IN THE CORRESPONDING ZONE WILL REMAIN DE-ENERGIZED UNTIL THE NEXT SCHEDULED EVENT OR "ON" OVERRIDE ENERGIZES THE ZONE.
F. DINING DIMMING: WHEN THE DINING ROOM DIMMING BUTTON (BUTTON 3) IS PRESSED HALF OF THE LIGHTING CIRCUITS IN THE DINING ZONE AND ANY LIGHTING CIRCUITS IN THE DAYLIGHT ZONE SHALL BE DE-ENERGIZED AND THE OTHER HALF OF THE LIGHTING CIRCUITS IN THE DINING ZONE WILL BE ENERGIZED FOR A DURATION OF ONE (1) HOUR.
G. KITCHEN DIMMING: WHEN THE KITCHEN DIMMING BUTTON (BUTTON 4) IS PRESSED HALF OF THE LIGHTING CIRCUITS IN THE KITCHEN ZONE SHALL BE DE-ENERGIZED AND THE OTHER HALF OF THE LIGHTING CIRCUITS IN THE KITCHEN ZONE WILL BE ENERGIZED FOR A DURATION OF ONE (1) HOUR.
H. VERIFY THAT TIME AND TIME ZONE ARE SET CORRECTLY ON BLUE BOX. VERIFY WITH STORE OPERATIONS THAT THE ON/OFF TIMES ARE COMPATIBLE WITH THE STORE OPERATING HOURS PRIOR TO TURNOVER.



INTERIOR LIGHTING CONTROL DIAGRAM

6 / E710 — 12" = 1'-0"



MAIN DISTRIBUTION DIAGRAM

1 / E710 — NTS

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Issue Record:

5/30/2024	COMBINE PERMIT SET

Revisions:

Drawn: JJV
Checked: BW

Project No.: CMG5134

Contents: ELECTRICAL DETAILS

E710