A New Retail Location for:

DOLLAR TREE®

1713 W Jefferson St
Springfield, IL 62702

PERMIT SET



PROJECT TEAM

CIVIL CONSULTANT:
RENAISSANCE INFRASTRUCTURE CONSULTING
8653 Penrose Lane
Lenexa, KS 66219
PHONE: 913-317-9500

ARCHITECT:
h | d Architecture, LLC
15225 Broadmoor Street
Overland Park, KS 66223
PHONE (816) 918-3364

STRUCTURAL CONSULTANT:
APEX ENGINEERS, INC.
1625 Locust Street
Kansas City, MO 64108
PHONE (816) 421-3222

MEP CONSULTANT:
5BY5 ENGINEERS, LLC
1100 Main Street, Floor 4
Kansas City, MO 64105
PHONE (913) 689-9449

ABBREVIATIONS

AC.	ACOUSTIC/ACOUSTICAL	FLOR.	FLUORESCENT	PTD.	PAINTED
ADD.	ADDENDUM	FTG.	FOOTING	PG.	PAGE
ADD'N.	ADDITION	FND.	FOUNDATION	PLAM.	PLASTIC LAMINATE
ABC	AGGREGATE BASE COURSE	FR.	FRAME	PR.	PAIR
AFF.	ABOVE FINISH FLOOR	F.H.C.	FIRE HOSE CAB.	PNL.	PANEL
AGG.	AGGREGATE	FV.	FIELD VERIFY	PTN.	PARTITION
A/C	AIR CONDITIONING			d	PENNY
AL.	ALUMINUM	GA.	GAUGE	PL.	PLATE
ALT.	ALTERNATE	GL.	GLASS / GLAZING	PLBG.	PLUMBING
A.B.	ANCHOR BOLT	GD.	GRADE	PLYWD.	PLYWOOD
&	AND	G.	GRAM		
ARCH.	ARCHITECT	GRIL.	GRILLE	PT.	POINT
ASP.	ASPHALT	GRD.	GRID	P.S.I.	POUNDS PER SQ. IN.
@	AT	GND.	GROUND	P.S.F.	POUNDS PER SQ. FT.
ACT	ACOUSTICAL CEILING TILE/PANEL	G.S.	GALVANIZED STEEL	P.C.	PRECAST
∠	ANGLE	GYP.	GYPSUM	P.L.	PROPERTY LINE
		GWB/G.B.	GYPSUM BOARD		
BLKG.	BLOCKING			R.	RISER, RISERS
BSMT.	BASEMENT	H.R.	HAND RAIL	RAD.	RADIUS
BM.	BEAM	HDN.	HARDENER	R.D.	ROOF DRAIN
B.M.	BENCHMARK	HDW.	HARDWARE	RB.	RESILIENT BASE
BD.	BOARD	HDWD.	HARDWOOD	RE.	REFER TO
B.O.	BOTTOM OF	HTR.	HEATER	REG.	REGISTER
BLDG.	BUILDING	HT.	HEIGHT	REQ'D.	REQUIRED
		H.P.	HIGH POINT	REV.	REVISION
CABT.	CABINET	H.M.	HOLLOW METAL	RF'G.	ROOFING
C.I.P.	CAST IN PLACE	HORIZ.	HORIZONTAL	RGH.	ROUGH
C.B.	CATCH BASIN	H.B.	HOSE BIB	RM.	ROOM
CLG.	CEILING	H.W.	HOT WATER	RND.	ROUND
CEM.	CEMENT/CEMENTITIOUS			R.O.	ROUGH OPENING
CG.	CENTIGRAM	IN.	INCH / INCHES		
CM	CENTIMETER	I.D.	INSIDE DIAMETER	SCHED.	SCHEDULE
CL.	CENTER LINE	INSUL.	INSULATION	S.C.	SEALED CONCRETE
CER.	CERAMIC	INT.	INTERIOR	SCR.	SCREW
C.T.	CERAMIC TILE	INV.	INVERT	SECT.	SECTION
CHAN.	CHANNEL			SEL.	SELECT
⊏	CHANNEL	JAN.	JANITOR	SHG.	SHEATHING
CLR.	CLEAR	JT.	JOINT	SHT.	SHEET
C.O.	CLEAN OUT	JST.	JOIST	SDG.	SIDING
CLOS.	CLOSET			SIM.	SIMILAR
COL.	COLUMN	K.P.	KICK PLATE	SLDG.	SLIDING
CONC.	CONCRETE			SM.	SMOOTH
CONN.	CONNECTION	LAM.	LAMINATED	SPEC.	SPECIFICATION
CONST.	CONSTRUCTION	LB.	POUND	SQ.	SQUARE
C.J.	CONTROL JOINT	LDG.	LANDING	ST.	STAINED
	CONSTRUCTION JOINT	LTH.	LATH	STD.	STANDARD
CONT.	CONTINUOUS	LAV.	LAVATORY	S.S. /	
CONTR.	CONTRACTOR	LG.	LENGTH	ST.STL.	STAINLESS STEEL
CORG.	CORRUGATED	LOC.	LOCATION	STRUC.	STRUCTURE
CTR.	COUNTER	LT.	LIGHT	SUSP.	SUSPENDED
CTSK.	COUNTERSUNK	L.W.C.	LIGHT WEIGHT CONCRETE	SW.BD.	SWITCHBOARD
C.M.U.	CONCRETE MASONRY UNIT	LVR.	LOUVER	SYS.	SYSTEM
		LOC.	LOCATION		
D.P.	DAMP PROOFING	M.O.	MASONRY OPENING	T.	TREAD
DB.	DECIBEL	MAT'L.	MATERIAL	T.C.	TOP OF CURB
DIAG.	DIAGONAL	MFR.	MANUFACTURER	T.G.	TEMPERED GLASS
DIAM.	DIAMETER	MB.	MARKER BOARD	T.O.	TOP OF
DIM.	DIMENSION	MAX.	MAXIMUM	T.S.D.	TOP OF STEEL DECK
DISP.	DISPENSER	MECH.	MECHANICAL	T.W.	TEACHERS WARDROBE
DWL.	DOWEL	MTL.	METAL	TYP.	TYPICAL
DN.	DOWN	M.L.	METAL LATH		
D.S.	DOWNSPOUT	M.	METER	U.O.N.	UNLESS OTHERWISE NOTED
DWG.	DRAWING	MIN.	MINIMUM		
		MLDG.	MOLDING	V.	VENT
EA.	EACH	MULL.	MULLION	VERT.	VERTICAL
ELEC.	ELECTRIC			V.G.	VERTICAL GRAIN
E.W.C.	ELECTRIC WATER COOLER	N.G.	NATURAL GRADE	VEST.	VESTIBULE
EL.	ELEVATION	NOM.	NOMINAL	V.C.T.	VINYL COMPOSITION TILE
ELEV.	ELEVATOR	N.I.C.	NOT IN CONTRACT	VCP	VITREOUS CLAY PIPE
EQ.	EQUAL	N.T.S.	NOT TO SCALE		
EQUIP.	EQUIPMENT	NO. / #	NUMBER	W.W.M.	WELDED WIRE MESH
EXH.	EXHAUST			W.C.	WATER CLOSET
EXPAN.	EXPANSION	OBS.	OBSCURE	W.H.	WATER HEATER
E.J.	EXPANSION JOINT	O.C.	ON CENTER	W.F.	WIDE FLANGE
EXIST.	EXISTING	OPN'G.	OPENING	W.	WITH
EXT.	EXTERIOR	O.A.	OVERALL	W/O	WITHOUT
		O.D.	OUTSIDE DIAMETER	WD.	WOOD
FT.	FEET / FOOT	O.F.S.	OVERFLOW SCUPPER	WDW.	WINDOW
FIN.	FINISH	O.F.D.	OVERFLOW DRAIN	W.W.	WINDOW WALL
FIXT.	FIXTURE	O.H.D.	OVERHEAD DOOR		
FL.	FLASHING				
FLR.	FLOOR				
F.D.	FLOOR DRAIN				

NATIONAL VENDORS

HVAC UNITS:	CARRIER	315-432-7942	DEBBIE JOBIN	DEBBIE.JOBIN@CARRIER.COM
	YORK	405-419-6498	WILLIAM PRATER	WILLIAM.ALBERT.PRATER@JCI.COM
DOORS AND HARDWARE:	COOK & BOARDMAN	757-532-9872	JILL FLORIO	JFLORIO@COOKANDBOARDMAN.COM
LIGHTS / ELECTRICAL EQUIPMENT EXTERIOR LIGHTS, EXIT SIGNS, EM LIGHTS, SWITCHGEAR, ELECTRICAL PANELS	NATIONAL ENERGY & LIGHT, INC.	603-718-1639	ALYSSA LANIGAN	ALANIGAN@NELCOMPANY.COM
FIRE MONITORING	ADT	509-310-3643	TED BROOKS	TBROOKS@ADT.COM
METAL BUILDING	WHIRLWIND STEEL	443-309-4068	MIKE BETZ	MIKE.BETZ@WHIRLWINDSTEEL.COM
CONSTRUCTION CAMERAS	OXBLUE CORPORATION	404-554-1461	JP SCHAAF	JPSCHAAF@OXBLUE.COM
SITE LIGHTING CALCULATIONS	NATIONAL ENERGY & LIGHT, INC.	603-718-1639	ALYSSA LANIGAN	ALANIGAN@NELCOMPANY.COM

DOLLAR TREE CONTACT
500 VOLVO PARKWAY
CHESAPEAKE VA, 23320
PHONE (757) 321-5830
STEVEN MCMAHON

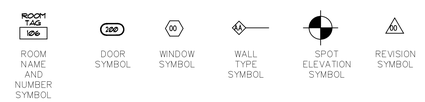
SYMBOLS LEGEND



DETAIL BUBBLE EXAMPLES



EXTERIOR ELEVATION SYMBOL | DETAIL SYMBOL | WALL AND BUILDING SECTION SYMBOL | SECTIONAL DETAIL SYMBOL | INTERIOR ELEVATION SYMBOL



ROOM NAME AND NUMBER SYMBOL | DOOR SYMBOL | WINDOW SYMBOL | WALL TYPE SYMBOL | SPOT ELEVATION SYMBOL | REVISION SYMBOL



NORTH ARROW SYMBOL | DETAIL NUMBER SYMBOL | KEYNOTE SYMBOL | KEYNOTE SYMBOL | KEYNOTE SYMBOL | KEYNOTE SYMBOL

PROJECT INFORMATION

(REFER TO GOVERNING AUTHORITY HAVING JURISDICTION OVER THE SITE SPECIFIC PROJECT FOR ALL APPLICABLE PROJECT SPECIFIC CODES PRIOR TO SUBMITTING PRICING TO DOLLAR TREE)

BUILDING CODE: 2012 IBC

PLUMBING CODE: 2012 ILL PC

BUILDING AREA (SQ. FT.) : 9,880 SF

BUILDING HEIGHT : 1 STORY
PARAPET HEIGHT A.F.F. 28'-0"

OCCUPANCY TYPE : BASED ON PROTOTYPE AREAS
NON-SEPARATED MIXED OCCUPANCY - GROUP M - MERCANTILE & GROUP S-1 - STORAGE
OCCUPANT LOAD - 1 PERSON PER 60 SF GROSS FOR SALES AREA, 1 PERSON 150 GROSS SQ. FT. FOR OFFICE
1 PERSON PER 300 GROSS SQ. FT. FOR MERCANTILE STORAGE

TYPE OF CONSTRUCTION: II-B

ALLOWABLE AREA (SQ.FT.) : 12,500 GROSS IBC 2012 TABLE 503, REFERENCE SECTION 506.2 FOR ALLOWABLE AREA MODIFICATIONS BASED ON FRONTAGE INCREASES

ALLOWABLE HEIGHT : 2 STORIES AND 55 FEET PER IBC 2012 TABLE 503

FIRE REQUIREMENTS : NONE REQUIRED PER IBC 2012 TABLE 601, NOTE: VERIFY FIRE SEPARATION DISTANCES PER IBC 2012 TABLE 602.
NOTE: SALE SUPPORT AREA SEPARATION NOTE: THE BASIS OF THIS DESIGN IS NON-SEPARATED MIXED-USE OCCUPANCY.
NOTE: THERE SHALL BE NO HIGH-PILED STORAGE AS DEFINED BY THE 2006 IFC.

EXITING : NUMBER OF EXITS PROVIDED: 3 (1 FROM SALES SUPPORT, 2 FROM OTHER AREAS)
PER A.D.A REQUIREMENTS - EACH EXIT SHALL PROVIDE A 32" OR GREATER CLEAR OPENING. MAXIMUM TRAVEL DISTANCE ALLOWED = 200 FT
MAXIMUM COMMON PATH OF TRAVEL = 75 FEET
MINIMUM EGRESS WIDTH PER IBC 2012 SECTION 1005.3.2 = 0.2 INCHES PER OCCUPANT
EXIT SIGNAGE TO COMPLY WITH 2012 IBC SECTION 1011

INTERIOR FINISHES: EXITWAYS TO HAVE A CLASS "A" FLAME SPREAD CLASSIFICATION (MIN)
EXIT CORRIDORS TO HAVE A CLASS "B" FLAME SPREAD CLASSIFICATION (MIN)
OTHER ROOMS TO HAVE A CLASS "C" FLAME SPREAD CLASSIFICATION (MIN)

CLASS A = 0-25 FLAME SPREAD INDEX; 0-450 SMOKE DEVELOPED INDEX
CLASS B = 26-75 FLAME SPREAD INDEX; 0-450 SMOKE DEVELOPED INDEX
CLASS C = 76-200 FLAME SPREAD INDEX; 0-450 SMOKE DEVELOPED INDEX

PLUMBING COUNT: OCCUPANT LOAD: 135 OCC
129 - SALES FLOOR
5 - STOCKROOM
1 - OFFICE

MERCANTILE: 135 OCC
WC = 1 per 500 — 2 WC PROVIDED
LAV = 1 per 750 — 2 LAV PROVIDED
DF = 1 per 1000 — 2 DF PROVIDED

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING PERMITS.
3. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES OR DISCREPANCIES WTH THE PROJECT DOCUMENTS. ACCESS TO THE SITE AND/OR SPACE UNDER CONSTRUCTION DURING BIDDING AND CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER.
4. DO NOT SCALE DRAWINGS.
5. THE WORD "ALIGN" AS USED IN THESE DOCUMENTS SHALL SUPERSEDE ANY DIMENSIONAL INFORMATION GIVEN.
6. TYPICAL DIMENSIONS ARE TO FACE OF CONCRETE, DRYWALL, CURTAIN WALL, ETC., OR TO COLUMN CENTERLINE. DIMENSIONS AT WINDOWS ARE TYPICALLY TO FACE OF FRAME. REFER TO PLAN DETAILS FOR ADDITIONAL INFORMATION.
7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. THE SUBSTRATE SHALL BE SMOOTH AND FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.
8. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP.
9. THE GENERAL CONTRACTOR SHALL INSPECT AND CHECK THE ADEQUACY AND INSTALLATION OF THROUGH-WALL FLASHING PRIOR TO COVERING WITH FINISH MATERIALS. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO INSPECTION AGAINST HOLES OR PENETRATIONS, APPROPRIATE LAPPING AND SEALING, AND OVERALL WORKMANSHIP IN CONFORMANCE WITH THE SPECIFICATIONS.

SHEET INDEX

A0.0 COVER

CIVIL
C0.0 TITLE SHEET
C0.1 GENERAL LAYOUT
C0.2 GENERAL NOTES
C1.0 EXISTING CONDITIONS
C2.0 SITE PLAN
C2.1 DIMENSION PLAN
C3.0 GRADING PLAN
C4.0 UTILITY PLAN
C5.0 STORM A - PLAN AND PROFILE
C5.1 STORM B - PLAN AND PRFILE
C5.2 DRAINAGE AREA MAP
C6.0 EROSION CONTROL PLAN PHASE I
C6.1 EROSION CONTROL PLAN PHASE II
C6.2 EROSION CONTROL PLAN PHASE III
C6.3 SEEDING PLAN
C6.4 EROSION CONTROL DETAILS
C7.0 STANDARD DETAILS I
C7.1 STANDARD DETAILS II

ARCHITECTURAL
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A2.1 REFLECTED CEILING PLAN & DETAILS
A2.2 ENLARGED PLANS & TOILET ROOM
A2.3 DETAILS TYPICAL EIFS DETAILS
A3.0 INTERIOR ELEVATIONS
A5.0 ELEVATIONS & BUILDING SECTION
A5.1 STOREFRONT ELEVATION & DETAILS
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A6.2 SECTION DETAILS

STRUCTURAL
S100 GENERAL NOTES AND SPECIFICATIONS
S200 FOUNDATION PLAN TYPICAL
S500 FOUNDATION DETAILS FOUNDATION
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PLUMBING, MECHANICAL, ELECTRICAL
M1.0 MECHANICAL HVAC PLAN
M2.0 MECHANICAL SCHEDULE AND DETAILS
P1.0 PLUMBING WASTE AND VENT PLAN
P1.1 PLUMBING WATER AND GAS PLAN
E0.1 ELECTRICAL SITE LIGHTING PLAN
E1.0 ELECTRICAL LIGHTING PLAN
E2.0 ELECTRICAL POWER PLAN
E3.0 ELECTRICAL SCHEDULES AND DETAILS
E4.0 PANELBOARD SCHEDULE & LIGHT FIXTURE SCHEDULE

h|d ARCHITECTURE
15225 Broadmoor Street
Overland Park, KS 66223
h|d Architecture, LLC

LICENSED ARCHITECT
GREGORY D. HIGHBARGER
001.026132
STATE OF ILLINOIS
8/15/2023

Architect - Gregory D. Highbarger
License - Illinois - 001.026132

The record copy of this drawing is on file at the offices of h|d Architecture, LLC, 15225 Broadmoor Street, Overland Park, Kansas. This electronic document is released for the purposes of reference, coordination, and/or facility management. This electronic document of modifications thereof shall not be used for construction.

CIVIL CONSULTANT
Renaissance Infrastructure Consulting
8653 Penrose Ln
Lenexa, KS, 66219
913-317-9500

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Kansas City, MO 64108
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5BY5 Engineers, LLC
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Kansas City, MO 64105
(913) 689-9449

PERMIT

A New Retail Location For:
DOLLAR TREE®
1713 W Jefferson St
Springfield, IL 62702

Date	08/15/2023
Job Number	20-003.12
Drawn By	JS
Checked By	GH
Type	3B-R-3

Revisions

Number	Date	Description

A0.0

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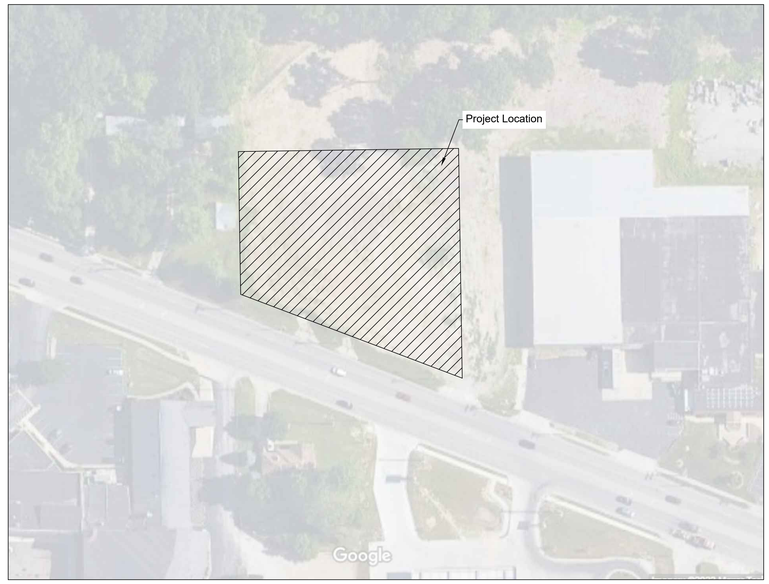
COVER SHEET

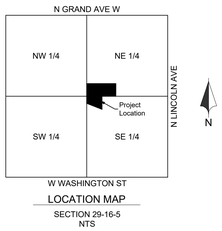
Dollar Tree

Springfield, Sangamon County, IL
Section 29, Township 16 N, Range 5 W

Construction Documents

TOTAL AREA: 1.23 ACRES





LOCATION MAP
SECTION 29-16-5
NTS

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Sheet Number	Sheet Title
C0.0	Title Sheet
C0.1	General Layout
C0.2	General Notes
C1.0	Existing Condition
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C3.0	Grading Plan
C4.0	Utility Plan
C5.0	Storm A - Plan & Profile
C5.1	Storm B - Plan & Profile
C5.2	Drainage Area Map
C6.0	Erosion Control Plan I
C6.1	Erosion Control Plan II
C6.2	Erosion Control Plan III
C6.3	Seeding Plan
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C7.0	Standard Details I
C7.1	Standard Details II

Floodplain Note:

According to the F.E.M.A. Flood Insurance Rate Map Number 08001C0319J, revised December 2, 2021, this tract graphically lies in OTHER AREAS, ZONE X, defined as areas determined to be outside the 0.2% annual chance floodplain.

Legal Description:

Beginning at the center corner of said Section 29, said corner being a found stone, thence North 00°57'17" West, along the West line of said Northeast Quarter as described in a deed recorded in Volume 9, Page 27 in the Sangamon County Recorder's Office, 47.00 feet to a set 1/2" x 24" rebar with cap stamped "035002713"; thence departing said West line, North 89°00'28" East, 251.25 feet to a set 1/2" x 24" rebar with cap stamped "035002713"; thence South 00°57'48" East, 47.00 feet to a set 1/2" x 24" rebar with cap stamped "035002713" on the South line of said Northeast Quarter as described in a deed recorded in Volume 9, Page 27 in the Sangamon County Recorder's Office, said point also being on the North line of said Southeast Quarter and the Northeast corner of a tract of land described in a deed recorded in Volume 9, Page 52 in the Sangamon County Recorder's Office; thence South 00°57'48" East, along the East line of a tract of land as described in a deed recorded in Volume 9, Page 52 in the Sangamon County Recorder's Office, 216.51 feet (216.52 feet deeded) to a corner point being 0.2' south and 1.2' east of a found 1/2" pipe, said corner point being the Southeast corner of said recorded deed and also being a point on the North right-of-way line of State Highway 97; thence departing said East line, North 69°22'57" West, along said North right-of-way line and the South line of a tract of land described in deeds recorded in Volume 9, Page 52 and Volume 3, Page 91 in the Sangamon County Recorder's Office, 270.27 feet to a corner point being 1.0' south and 0.3' west of a found 5/8" bar, said corner point also being the Southwest corner said recorded deed, 270.27 feet (270.36 feet deeded); thence departing said North right-of-way line, North 00°55'56" West, along the West line of a tract of land as described in a deed recorded in Volume 3, Page 91 in the Sangamon County Recorder's Office, 116.97 feet (116.98 feet deeded) to the Point of Beginning, containing 41,902 square feet, or 0.962 acre, more or less.

The information concerning locations of underground utilities shown hereon which are not visible from the surface, has been taken from the records and field locations of the various utility companies and has not been field verified by this company. These locations are not to be construed as accurate or exact.

Utilities

City of Springfield Water & Sewer Utility Dept.
1315 N Fifth St,
Springfield, IL 62702
Phone: 217-789-2414

City of Springfield-Fire Dept.
825 E Capitol Ave, Springfield,
IL 62701
Phone: 217-788-8474

City of Springfield-Police Dept.
200 s 9th St, Springfield, IL
62701
Phone: 217-753-6880

LEGEND

	Existing Section Line		Proposed Right-of-Way
	Existing Right-of-Way Line		Proposed Property Line
	Existing Lot Line		Proposed Lot Line
	Existing Easement Line		Proposed Easement
	Existing Curb & Gutter		Proposed Curb & Gutter
	Existing Sidewalk		Proposed Sidewalk
	Existing Storm Sewer		Proposed Storm Sewer
	Existing Storm Structure		Proposed Storm Structure
	Existing Waterline		Proposed Fire Hydrant
	Existing Gas Main		Proposed Waterline
	Existing Sanitary Sewer		Proposed Sanitary Sewer
	Existing Sanitary Manhole		Proposed Sanitary Manhole
	Existing Contour Major		Proposed Contour Major
	Existing Contour Minor		Proposed Contour Minor
			Future Curb and Gutter
U/E	Utility Easement		
SS/E	Sanitary Sewer Easement	A/E	Access Easement
D/E	Drainage Easement	T/E	Temporary Easement

Consultant:

Renaissance Infrastructure Consulting, LLC
Contact Person: Andy Gabbert
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(913) 333-3880

Prepared For:

USFP, LLC
Contact Person: Mike Belew
4706 Broadway, Suite 240
Kansas City, MO 64112
mbelew@usfpco.com
www.uspfco.com
(816) 645-8963

NORTH
1"=70'
0 35' 70'

Construction Documents
22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

Title Sheet

NO.	DATE	REVISION
1	8/16/23	For Submittal

DRAWN BY BW | CHECKED BY AG

Renaissance Infrastructure Consulting
913.317.9500
www.RIC-CONSULT.COM
8653 PENROSE LANE
LENEXA, KANSAS 66219

LICENSED PROFESSIONAL ENGINEER
PATRICK N CASSITY
062-069359
STATE OF ILLINOIS

Sheet
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tadams
Aug 14, 2023 - 3:17pm
ACAD Design\2022-0166\0 - Springfield II\Dwg\Sheets\CD\22-0166-09 CDS-TITLE.dwg

VOL. 3 PG. 69
P.N. 14-29.0-177-020

0.75" PVC PIPE

ADJOINING RESIDENCE

13.58'

10.04'

TRACT 1
P.N. 14-29.0-254-022

Proposed Dumpster Pad 12'x24'
Install 2 Bollards for Each Dumpster

Property Line

10' Setback Line

GRAVEL

38.74'

25' Setback Line

Proposed Detention Basin

ADJOINING RESIDENCE

4.70'

4.54'

Property Line

Proposed Building
10,046 SF

N/F
GREIG EDWARD PAUL &
BOYER JANET MARIE
VOL. 3 PG. 89
P.N. 14-29.0-327-001

Proposed ADA Sign

TRACT 3
P.N. 14-29.0-401-001

Proposed Parking Block

Proposed Hydrant

TRACT 2
P.N. 14-29.0-401-002

Proposed Gas Line

Proposed Underground Power Line

Proposed Telecom. Line

Proposed Sanitary Sewer Line

Proposed Water Line

N/F
D.E.R. JR LLC
VOL. 9 PG. 53
P.N. 14-29.0-401-003

Property Line

Property Line

217.22'

Proposed Riprap

Proposed Curb Inlet

CONCRETE CURB

20' Setback Line

Proposed Storm Sewer

Proposed Storm Pipe

Proposed Riprap

Proposed Curb Inlet

Proposed Curb Inlet

CONCRETE WALKOUT

Right of Way Line

Proposed Pylon Sign

83.57'

CONCRETE

CONCRETE CURB

60.77'
B.C.C.-B.C.C.

W. Jefferson St.

CONCRETE STEPS

8 F

CONCRETE

CONCRETE CURB

RAILROAD TIE & RIP-RAP

WEST JEFFERSON STREET (IL-97)
(VARIABLE WIDTH PUBLIC RIGHT-OF-WAY)
(ASPHALT PAVEMENT)

CONCRETE CURB

60.92'
B.C.C.-B.C.C.

NORTH

1"=20'
0 10' 20'

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

General Layout

NO.	DATE	REVISION
1	8/16/23	For Submittal

DRAWN BY BW | CHECKED BY AG

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STATE OF ILLINOIS

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tadams
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ADA ACCESSIBLE ROUTE NOTES

1. All Accessible route construction shall conform to the latest version of the ADA Standards for Accessible Design published by the Department of Justice and the Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way published by the United States Access Board.
2. Other than ramps and ramp runs, walking surfaces must have running slopes not steeper than 1:20.
3. The cross slope of walking surfaces shall not be steeper than 2%.
4. The minimum width for a linear segment of accessible route shall be 36 inches.
5. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches wide, clear width shall be 42 inches minimum approaching the turn, 48 inches minimum at the turn and 42 inches leaving the turn.
6. An accessible route with a clear width less than 60 inches shall provide passing spaces at intervals of 200 feet maximum. Passing spaces shall be 60 inch by 60 inch minimum.
7. Ramp runs shall have a running slope not steeper than 1:12.
8. Ramp runs with a rise greater than 6 inches shall have handrails.
9. Ramp landings with a maximum slope of 1:48 shall be provided before and after ramp runs.
10. The maximum rise of a ramp run shall be 30 inches.
11. The maximum counter slope between the pavement and the curb at a curb ramp shall be 1:20.
12. Curb ramp landings with a maximum slope of 1:48 shall be provided at the top of curb ramps with a clear width of 60 inches.
13. Detectable warning surfaces complying with the latest ADA Standards shall be provided at pedestrian street crossings and refuge islands.
14. Passenger loading zones shall be provided adjacent to any ADA Accessible stall and have a 2% maximum slope in all directions.
15. Contractor to field verify existing site conditions and contact the engineer if field conditions do not match plan prior to construction.

LAYOUT & PAVING NOTES

1. All construction shall conform to the City of Springfield minimum design standards.
2. Contractor shall keep a full set of City of Springfield Standard Details onsite at all times.
3. The contractor shall check existing grades, dimensions, and inverts in the field and report any discrepancies to the architect/engineer prior to beginning work.
4. The contractor shall verify the exact location of all existing utilities, take care to protect utilities that are to remain, and repair contractor caused damage according to current local standards and at the contractor's expense. Coordinate all construction with the appropriate utility company.
5. The contractor shall comply with all local codes, obtain all permits, and pay all fees prior to beginning work.
6. Prior to installing, constructing, or performing any work in the public right of way or on the public storm sewer line (including concrete pavement or connecting private drainage systems to the storm sewer), contact City Public Works at ############ for inspection of the work. Contact must be made at least 24 hours prior to start of the work.
7. Provide a smooth transition between existing pavement and new pavement. Field adjustment of final grades may be necessary. Adjust all utilities prior to installation of pavement.
8. The contractor shall protect all trees to remain, in accordance with the specifications. Do not operate or store heavy equipment, nor handle, nor store materials within the drip lines of trees or outside the limit of grading.
9. Concrete walks and pads shall have a broom finish. All concrete shall be 4,000 p.s.i. unless otherwise noted. Curb ramps, sidewalk slopes, and driveway ramps shall be constructed in accordance with all current local requirements. If applicable, the contractor shall request inspection of sidewalk and ramp forms prior to placement of concrete.
10. All damage to existing asphalt pavement to remain which results from new construction shall be replaced with like materials at contractor's expense.
11. Dimensions are to the back of curb, or edge of concrete, unless otherwise noted.
12. Maintain one set of as-built drawings on the job site for distribution to the engineer upon completion.
13. For all asphalt pavement, the contractor shall have no more than 30% recycled material in the base course and no recycled material in the surface course.

PAVEMENT MARKING AND SIGNAGE NOTES

1. Parking stall marking stripes shall be four inch (4") wide white stripes. Handicap stall marking shall be furnished at locations shown on plans.
2. Traffic control devices and pavement markings shall conform to the requirements of the "Manual of Uniform Traffic Control Devices."
3. Traffic control and pavement markings shall be painted with a white Sherwin Williams TM2125 HOTLINE Fast Dry or approved equal. The pavement marking shall be applied in accordance with manufacturers recommendations. Apply on a clean, dry surface and at a surface temperature of not less than 70°f and the ambient air temperature shall not be less than 60°f and rising. Two coats shall be applied.

WRITTEN SEQUENCING

1. Implement Pre-Construction Plan:
   All temporary structural BMP's shown on the BMP plan must be in place before any site disturbance. Clearing necessary to place temporary structural BMP's is the minimum required for installation. Coordinate clearing necessary to place temporary structural BMP's with local weather forecast so that clearing and placement may be completed within a forecast dry period. Stabilize all erosion control measures after installation. Temporary Barrier Fence shall be in Place, around areas not to be disturbed, prior to any construction activities. This area includes Stream Corridor.
2. Clear and Stabilize Work Areas:
   Grade contractor areas and place all-weather surface on contractor areas.
3. Clearing and Grubbing:
   After Phase I BMP's are installed, contractor may clear, grub, and demo required areas as necessary.

GRADING NOTES

1. All construction shall conform to the City's minimum design standards.
2. Spot Grades shown herein shall govern over finished grades.
3. The contractor shall provide evidence that his insurance meets the requirements of the Project.
4. All traffic control shall be in conformance with the Manual of Uniform Traffic Control Devices (MUTCD).
5. The contractor is responsible for the protection of all property corners and section corners. Any property corners and/or section corners disturbed or damaged by construction activities shall be reset by a Registered Land Surveyor licensed in the State of Kansas, at the contractor's expense.
6. The contractor shall be responsible for the restoration of the right-of-way and for damaged improvements such as curbs, driveways, sidewalks, streetlight and traffic signal junction boxes, traffic signal loop lead ins, signal poles, irrigation systems, etc. Damaged improvements shall be repaired in conformance with the latest City standards and to the City's satisfaction.
7. The contractor is responsible for providing erosion and sediment control BMPs to prevent sediment from reaching paved areas, storm sewer systems, drainage courses and adjacent properties. In the event the prevention measures are not effective, the contractor shall remove any debris, silt, or mud and restore the right-of-way, or adjacent properties to original or better condition.
8. The contractor shall sod all disturbed areas within the public street right-of-way unless otherwise noted on the plans or if specific written approval is granted by the City.
9. All public street sidewalk ramps constructed will be required to comply with the Americans with Disabilities Act (ADA).
10. Excavation for utility work in public street right-of-way requires a Right-of-Way Work Permit from the Public Works Department, in addition to all other permits.
11. All work shall be confined within easements and/or construction limits as shown on the plans.
12. Curb stakes and hubs shall be provided at all high points, low points, ADA ramp openings, and on each side of all curb inlets when setting string line.
13. All National Pollution Discharge Elimination System (NPDES) standards shall be met.
14. Public and Private utility facilities shall be moved or adjusted as necessary by the owners to fit the new construction unless otherwise noted on the plans. The Contractor is responsible for the cost of utility relocations unless otherwise indicated on the plans.

EARTHWORK NOTES:

1. CONTOURS AND ELEVATIONS: Existing and proposed contours are shown on plans at one feet (1') contour intervals, unless otherwise noted. Proposed contours and elevations shown represent approximate finish grade.
2. CLEARING AND GRUBBING: Prior to the start of grading and earthwork, the areas to be graded shall be stripped of all vegetation, organic matter, and topsoil, to a minimum depth of four inches (4") or as otherwise directed by the Geotechnical Engineer. Stripping materials shall not be incorporated into structural fills. Topsoil materials shall not be used in building and pavement areas.
3. TOPSOIL: Prior to the start of grading, the contractor shall strip all topsoil from areas to be graded and stockpile at a location on or adjacent to the site as directed by the owner. At completion of grading operations and related construction, the contractor will be responsible for redistribution of topsoil over all areas disturbed by the construction activities. Topsoil shall be placed to a minimum depth of six inches (6") and in accordance with specifications for landscaping. Subgrade below turf areas shall have a minimum 6" depth of soil free of rock larger than 3".
4. SUBGRADE PREPARATION: Prior to placement of new fill material, the existing subgrade shall be proof rolled and approved under the direction of the Geotechnical Engineer or his representative.
5. proof rolling: Prior to the placement of new fill material, the existing subgrade shall be proof rolled and approved under the direction of the Geotechnical Engineer. Unsuitable areas identified by the proof rolling areas shall be undercut and replaced with controlled structural fill or treated with fly ash per the Geotechnical report.
6. EARTHWORK:
   A. GEOTECHNICAL: All earthwork shall conform to the recommendations of the Geotechnical report.
   B. SURFACE WATER: Surface water shall be intercepted and diverted during the placement of fill.
   C. FILLS: All fills shall be considered controlled or structural fill and shall be free of vegetation, organic matter, topsoil, and debris. All fill required for project shall be provided by the Contractor. Material Shall be pre-approved by the Engineer prior to placement.
   D. EXISTING SLOPES: Where fill material is to be placed on existing slopes greater than 5:1 (horizontal to vertical), existing slope shall be benched providing a minimum vertical face of twelve inches (12"). Fill material shall be placed and compacted in horizontal lifts not exceeding nine inched (9") (loose fit measurement), unless otherwise approved by the Geotechnical Engineer.
   E. COMPACTION REQUIREMENTS: Earth fill material shall be placed and compacted to a minimum density of ninety five percent (95%) of the material's maximum dry density as determined by ASTM D698 (standard proctor compaction). The moisture content at the time of placement and compaction shall be within a range of -2% to 3% above the optimum moisture content as defined by the standard proctor compaction procedure. The moisture contents shall be maintained within this range until completion of the work. Where compaction of earth fill by a large roller is impractical or undesirable, the earth fill shall be hand compacted with small vibrating rollers or mechanical tampers.
7. TESTING AND INSPECTION: Testing and inspection services required to make tests required by the specifications and to observe the placement of fills and other work performed on this project shall be provided by a commercial testing laboratory (Geotechnical Engineer) selected by the owner. The cost of testing will be the owner's responsibility.
8. SEEDING: All areas disturbed by earthwork operations in the right-of-way shall be seeded.

SITE UTILITY 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 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to coordinate with and relocate and/or remove all existing utilities which conflict with the proposed improvements shown on the plans.
2. The construction of storm sewers on this project shall conform to the requirements of Sangamon, Springfield Technical Specifications and Design Criteria.
3. The contractor shall field verify the exact location and elevation of the existing storm sewer locations and the existing elevations at locations where the proposed storm sewer collects or releases to existing ground. If discrepancies are encountered from the information shown on the plans. The contractor shall contact the design engineer. No pipes shall be laid until direction is received from the design engineer.
4. It will be the contractors responsibility to field adjust the top of all manholes and boxes as necessary to match the grade of the adjacent area. Tops of existing manholes shall be raised as necessary to be flush with proposed pavement elevations, and to be 6-inches above finished ground elevations in non-paved areas. No separate or additional compensation will be made to the contractor for making final adjustments to the manholes and boxes.
5. Inlet locations, horizontal pipe information and vertical pipe information is shown to the center of the structure. Deflection angles shown for storm sewer pipes are measured from the center of the curb inlets and manholes. The contractor shall adjust the horizontal location of the pipes to go to the face of the boxes. All roof drains shall be connected to storm sewer structures. Provide cleanouts on roof drain lines at 100' max. spacing and at all bend points. Do not connect roof drains directly to storm sewer pipes.
6. The contractor shall be responsible for furnishing and installing all fire and domestic water lines, meters, back flow devices, pits, valves and all other incidentals required for a complete operable fire protection and domestic water system, if not furnished or installed by the Board of Public Utilities. Coordinate with the Board of Public Utilities. All costs associated with the complete water system for the building shall be the responsibility of the contractor. All work shall conform to the requirements of Sangamon, Springfield.
7. The contractor shall be responsible for furnishing and installing all sanitary sewer service lines from the building to the public line. The contractor shall refer to the architectural plans for specific locations and elevations of the service lines of the building connection. All work shall conform to the requirements of Springfield.
8. The contractor is responsible for securing all permits, bonds and insurance required by the contract documents, Springfield, and all other governing agencies (including local, county, state and federal authorities) having jurisdiction over the work proposed by the construction documents. The cost for all permit bonds and insurance shall be the contractors responsibility and shall be included in the bid for the work.
9. By the use of these construction documents the contractor hereby agrees that he/she shall be solely responsible for the safety of the construction workers and the public. The contractor agrees to hold the engineer and owner harmless for any and all injuries, claims, losses or damages related to the project.
10. The contractor shall be responsible for furnishing all materials, tools and equipment and installation of electrical power, telephone and gas service from a point of connection from the public utility lines to the building structure. This will include all conduits, service lines, meters, concrete pads and all other incidentals required for a complete and operational system as required by the owner and the public utilities. Refer to building plans for exact tie-in locations of all utilities. Contractor shall verify connection points prior to installation of utility line.
11. All fill material is to be in place, compacted, and consolidated before installation of proposed utilities. On-site geotechnical engineer shall provide written confirmation that this requirement has been met and that utilities may proceed in the fill areas. All utilities are to be placed in trench conditions.
12. Contractor shall notify the utility authorities inspectors 49 hours before connecting to any existing line.
13. Storm sewer roof drains(st) shall be as follows (unless otherwise shown on plans).
    -PVC SDR 35 per ASTM D3034, for pipes less than 12' deep.
    -PVC SDR 26 per ASTM D3034, for pipes 12' to 20' deep.
14. Waterlines shall be as follows (unless otherwise shown on plans):
    -for 8" and larger: ductile iron pipe per AWWA C150
    -between 2" and 6": copper tube Type "K" per ANSI 816.22 or ductile iron pipe per AWWA C150
    -For smaller than 2":copper tube Type "K" per ANSI 816.22
15. Fire line size is shown for reference only, fire protection engineer shall verify all sizes and fire flow demand prior to construction.
16. Minimum trench width shall be 2 feet.
17. Contractor shall maintain a minimum of 42" of cover on all waterlines. All water line joints are to be mechanical joints with thrust blocking as called out in specifications and construction plans. Water mains and service lines shall be constructed in accordance to the Board of Public Utilities specifications for commercial services.
18. All waterlines shall be kept ten feet (10') apart (parallel) from sanitary sewer lines or manholes. Or when crossing, an 18" vertical clearance (outside edge of pipe to outside edge of pipe) of the waterline above the sewer line is required.
19. Trench Drain shall be ACO S200K or approved equal.
20. Trench Drain shall be installed in accordance with the manufacturer's installation instructions and recommendations.
21. In the event of a vertical conflict between waterlines, sanitary lines, storm lines and gas lines (existing and proposed), the sanitary line shall be ductile iron pipe with mechanical joints at least 10 feet on both sides of the crossing (or encased in concrete the same distance), the waterline shall have mechanical joints with appropriate thrust blocking as required to provide a minimum of 18" clearance. Meeting requirements ANSI A21.10 or ANSI 21.11 (AWWA C151)(Class 50).
22. All underground storm, sanitary, water and other utility lines shall be installed, inspected and approved before backfilling. Failure to have inspection approval prior to backfill will constitute rejection of work.
23. All necessary inspections and/or certifications required by codes and/or utility service companies shall be performed prior to announced building possession and the final connection of service. Contractor shall coordinate with all utility companies for installation requirements and specifications.
24. refer to building plans for site lighting electrical plan, irrigation, parking lot security system and associated conduit requirements. Coordinate with Owner that all required conduits are in place and tested prior to paving.
25. When a building utility Connection from site utilities leading up to the building cannot be made immediately, temporarily mark all such utility terminations.

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

General Notes

NO.	DATE	REVISION
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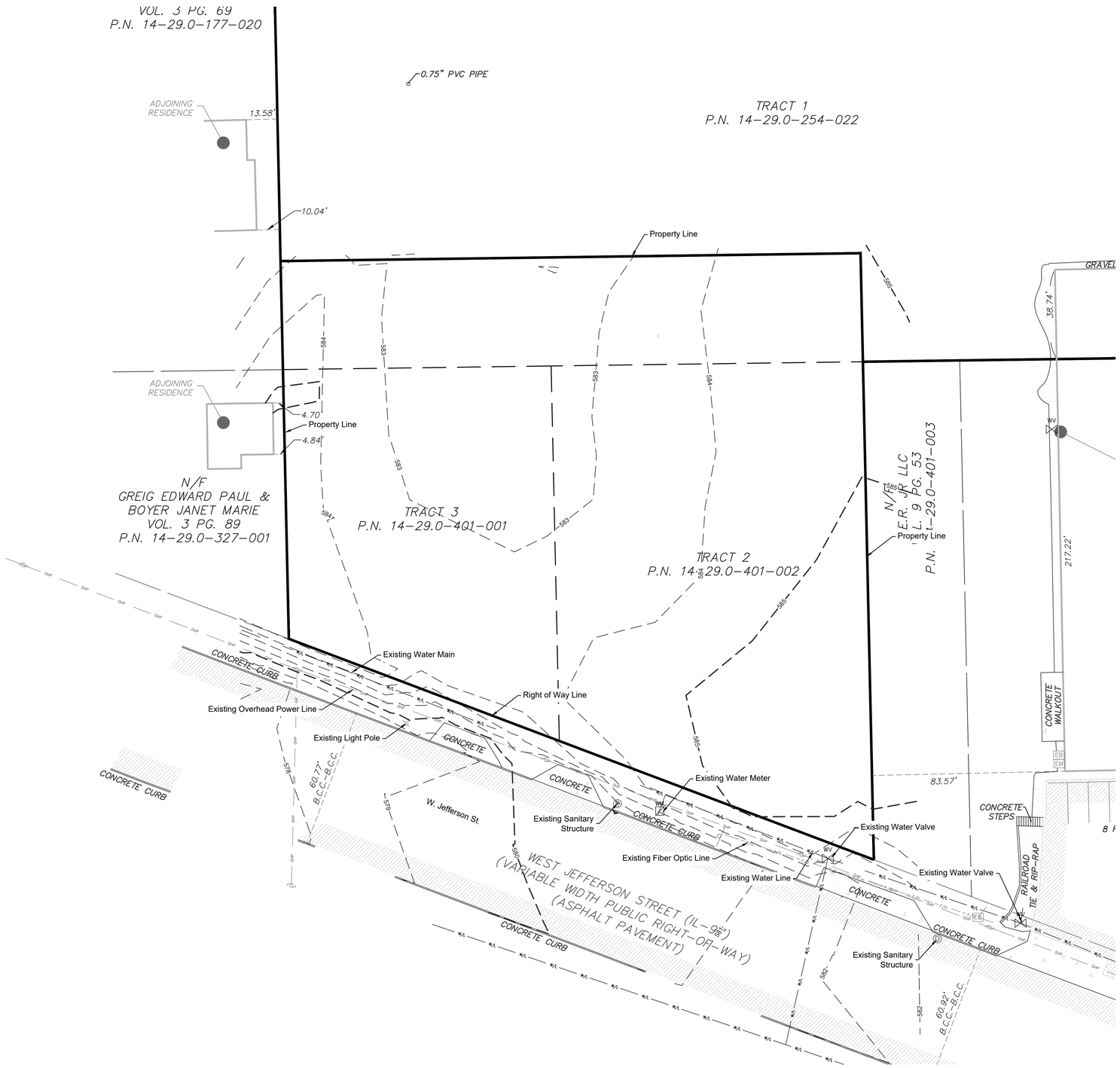
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NORTH

1"=20'

0 10' 20'

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

Existing Condition

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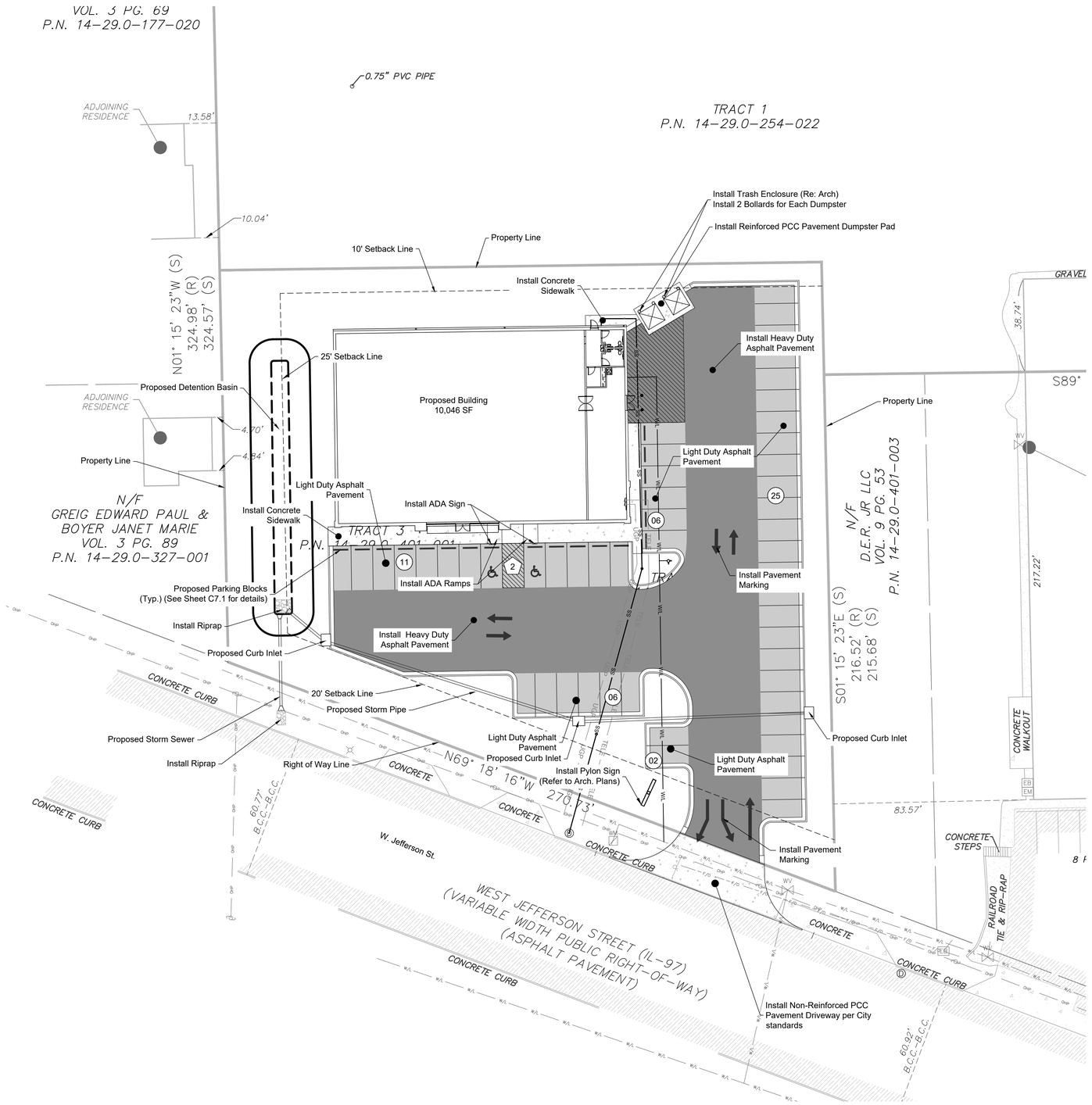
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LEGEND

3.5" Light Duty Asphalt (Parking Lot - Parking Stalls)

- 1.5" Wear Course (per iDOT standards)
- 2" Base Course (per iDOT standards)
- 8" Granular Base (per iDOT standards)
- Compacted Subgrade. (Refer to geotech)

4" Heavy Duty Asphalt (Parking Lot - Drive Aisles)

- 2" Wear Course (per iDOT standards)
- 2" Base Course (per iDOT standards)
- 10" Granular Base (per iDOT standards)
- Compacted Subgrade (Refer to geotech report)

5" Reinforced PCC Pavement (Dumpster Pad)

- #4 Rebar 12" O.C.E.W
- 5" Portland Cement Concrete
- 6" - Granular Base
- Compacted Subgrade (Refer to geotech report)

8" Non-Reinforced PCC Pavement (Drive Approach)

- 8" Portland Cement Concrete (per iDOT standards)
- 6" - Aggregate Base (per iDOT standards)
- Compacted Subgrade (Refer to geotech report)

5" Concrete Sidewalk

- 4" Portland Cement Concrete
- 6" - Granular Base
- Compacted Subgrade (Refer to geotech report)
- Compacted Subgrade (Refer to geotech report)

Pavement Sections Retail Store-Springfield, Illinois
By Kilo Project 23-1211- February 27, 2023.

PCC Pavement - Bid Alternate

5" Non-Reinforced PCC Pavement

- 5" Portland Cement Concrete (4,000 PSI, AE)
- 4" Min. Aggregate Base Course
- Compacted Subgrade (Refer to geotech report)

Note: PCC pavement sections (per geotechnical recommendations) provided as acceptable alternative to heavy and light duty asphaltic concrete pavement sections.

Site Data Table:

Lot Area: 1.23 AC
Building Area: 10,046 SF
Zoning: C-1, General Business
Setbacks:
Front: 15'
Side: 0' (20' adj.to residence)
Rear: 10'

Parking Legend

(XX) Ada Stalls Count

(XX) Standard Stalls Count

Site Parking Table:

Proposed Building Area: 10,046 SF
Parking Required: 50 Stalls
Parking Provided: 50 Stalls +
2 ADA Stalls

NORTH
1"=20'
0 10' 20'

Construction Documents
22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

Site Plan

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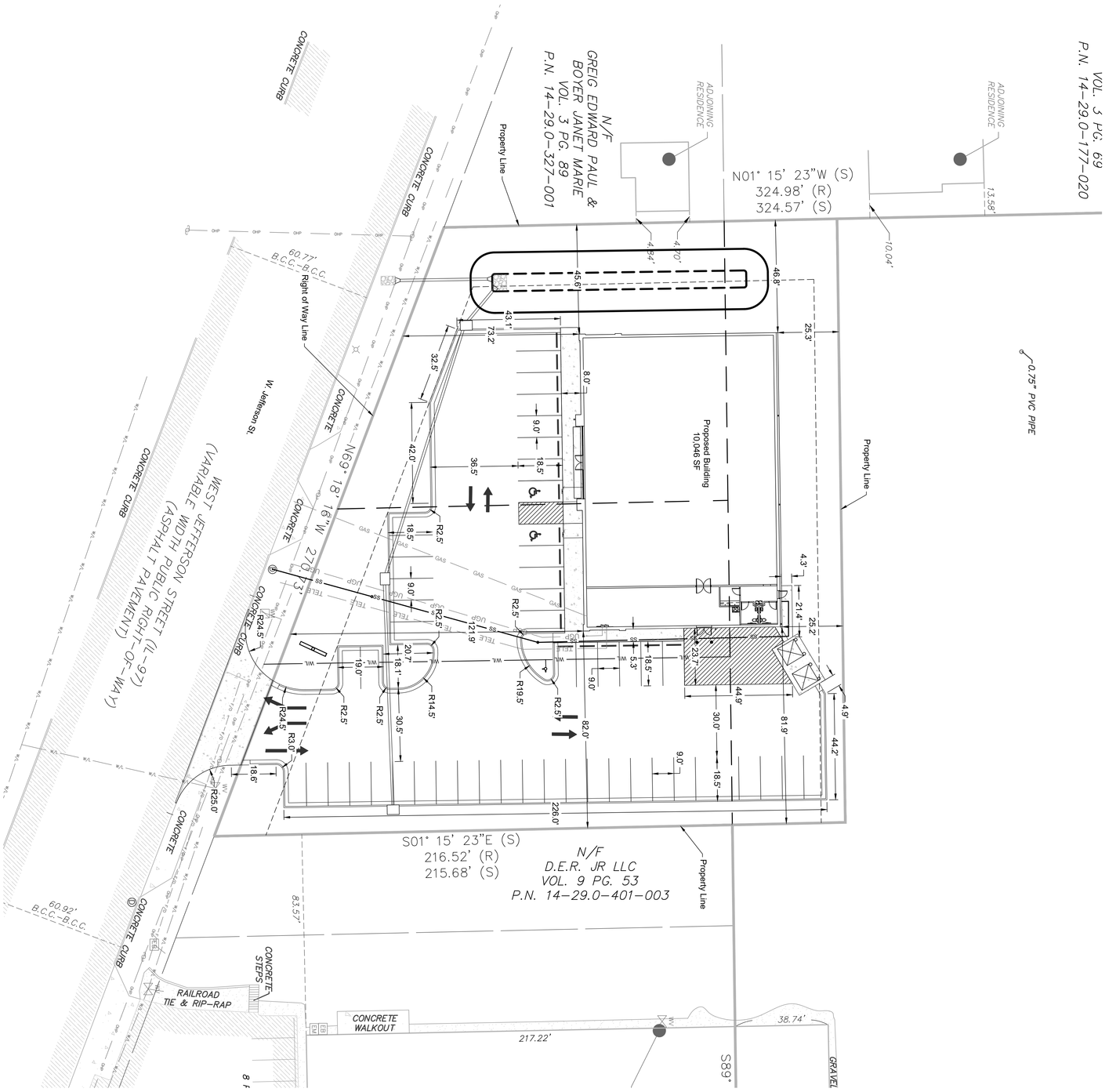
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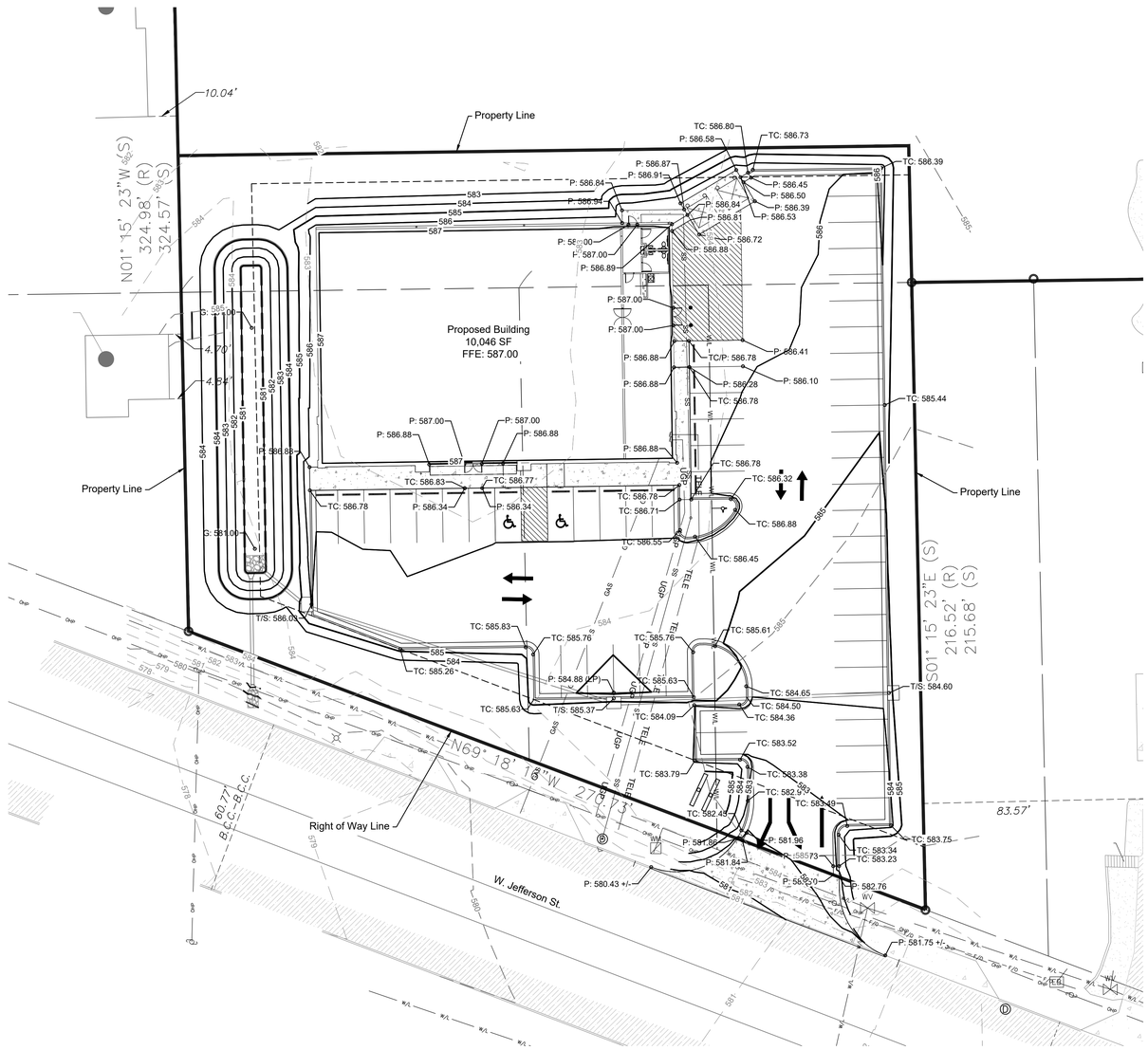
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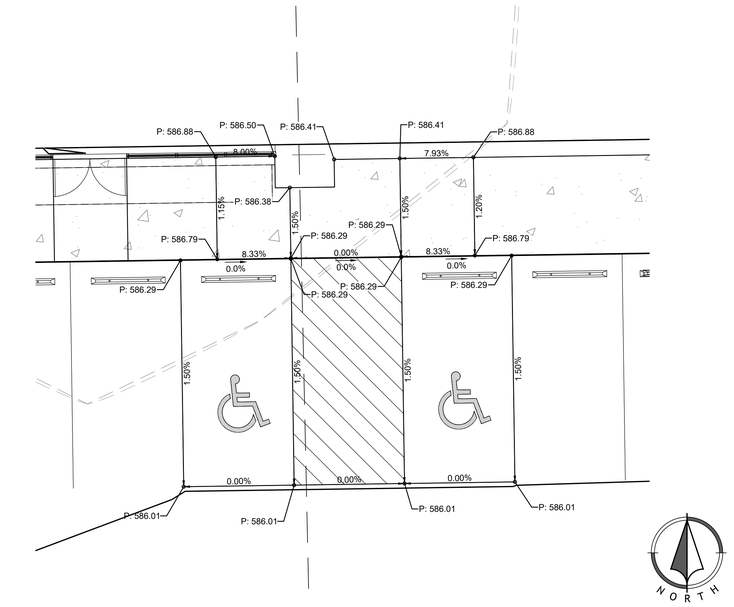
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Dimension Plan

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL





ADA GRADING DETAIL

LEGEND

TC:	Top of Curb
P:	Pavement
T/S:	Top of Structure
F/L:	Flowline of Pipe
G:	Ground
(HP)	High Point
(LP)	Low Point
TW:	Top of Wall
BW:	Bottom of Wall

- Existing Major Contour
- Existing Minor Contour
- Proposed Major Contour
- Proposed Minor Contour

Lot Size: 1.23 Acres
Total Disturbed Area: 1.04 Acres

Cut: 570.51 CY (Cut)
Fill: 3,155.06 CY (Fill)
Net: 2,584.56 CY Net (Fill)

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

Grading Plan

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VOL. 3 PG. 69
P.N. 14-29.0-177-020

0.75" PVC PIPE

ADJOINING RESIDENCE

13.58'

10.04'

Property Limit

Connect sanitary service line at building per MEP Plans

GRAVEL

38.74'

Install Sanitary Sewer Cleanout

ADJOINING RESIDENCE

4.70'

4.84'

Dollar Tree
10,046 SF

Install Electric Meter.
Refer to Electrical Plan.

Connect at building per MEP plans.

Connect at building per MEP plans.

Install 206.20 LF 1" Type K Copper Water Line.
Contract shall coordinate with Water Company on Meter Pit Installation, and Connection at Main

N/F
GREIG EDWARD PAUL &
BOYER JANET MARIE
VOL. 3 PG. 89
P.N. 14-29.0-327-001

Property Limit

Proposed Fire Hydrant
Install 9 LF 6" C900

N/F
S.E.R. 9 L.L.C
IL. 9 5 53
P.N. 14-29.0-401-003

Property Limit

217.22'

Install 137.53 LF Power Service Line.
Contractor shall coordinate with MEP and Power Company on size of conduits, and material of conduits.

Install Sanitary Sewer Cleanout

Install 131 LF Gas Line.
Contractor shall coordinate with Gas company for pipe material, size, and connection.

Install 236.30 LF 6" Sanitary Service Line

Proposed Curb Inlet

Existing Power Pole

CONCRETE CURB

Proposed Storm Line

Proposed Curb Inlet

Proposed Pylon Sign
RE: MEP for Electrical Requirements

Proposed Curb Inlet

CONCRETE WALKOUT

Right of Way Line

Proposed Storm Pipe

Existing Overhead Power Line

CONCRETE

CONCRETE CURB

60.27'
B.C.C.-B.C.C.

Install Sanitary Sewer Cleanout

CONCRETE

83.57'

CONCRETE STEPS

Install 148.50 LF Telecom. Line
Contractor shall coordinate with Fiber Optic company for pipe material, size and connection

Existing Sanitary Manhole, Contractor to verfify depth prior to construction and contact engineer if 1% slope cannot be achieved.

Existing Fiber Optic Line

Existing Overhead Power Line

Existing Water Line

CONCRETE

CONCRETE CURB

RAILROAD TIE & RIP-RAP

Existing Power Pole

WEST JEFFERSON STREET (VARIABLE WIDTH PUBLIC RIGHT-OF-WAY)
W. Jefferson St.
(ASPHALT PAVEMENT)

CONCRETE CURB

60.92'
B.C.C.-B.C.C.

NORTH

1"=20'

0 10' 20'

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

Utility Plan

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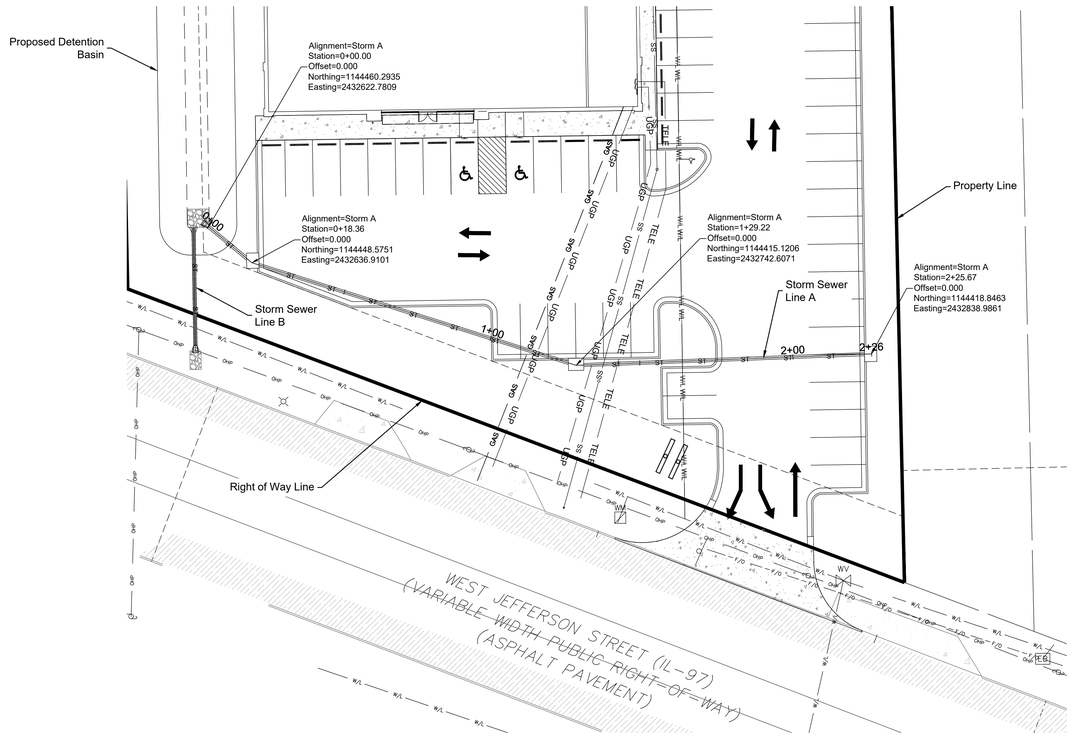
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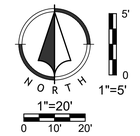
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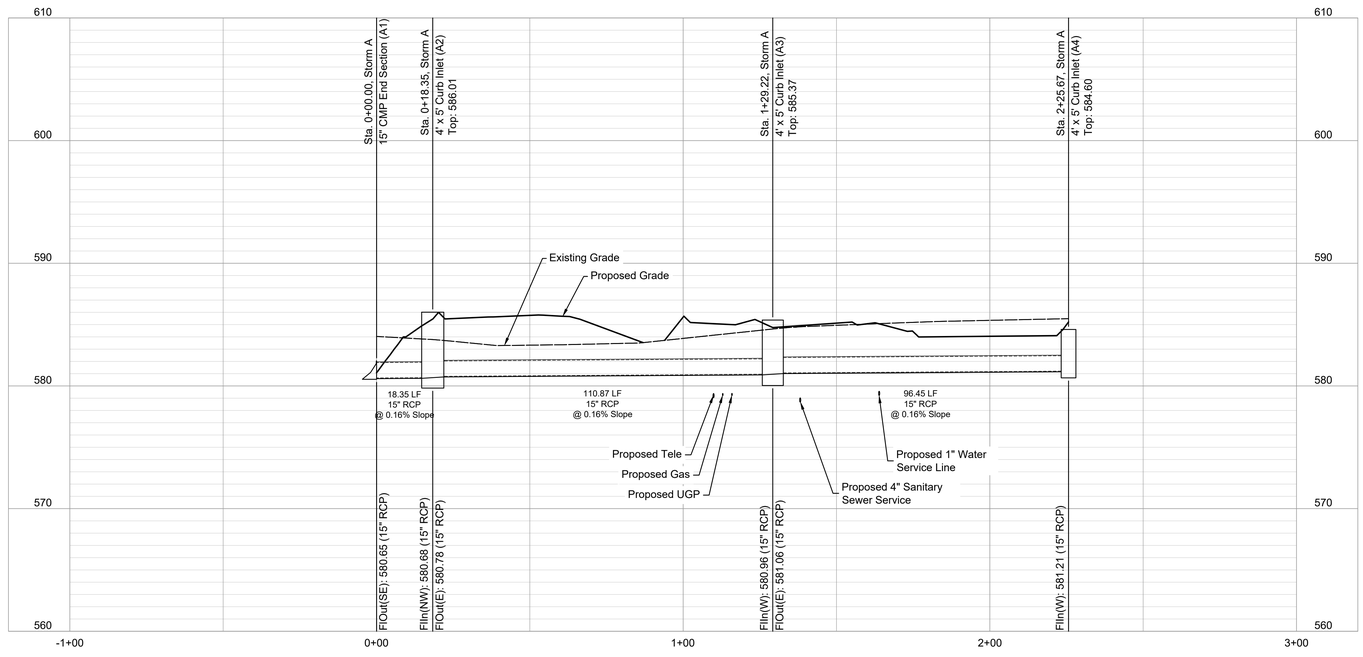
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Storm Sewer Line A

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

Storm A - Plan & Profile

NO.	DATE	REVISION
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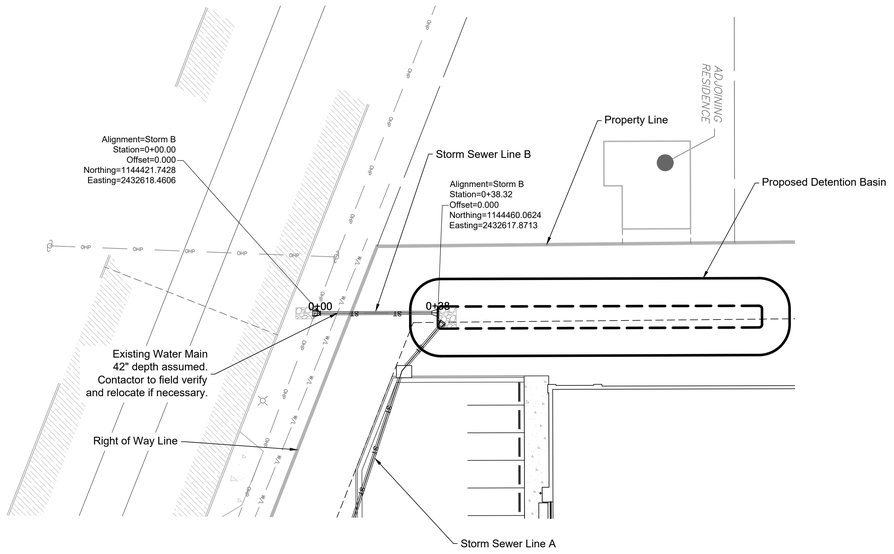
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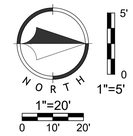
Renaissance Infrastructure Consulting
8653 Penrose Lane
Lenexa, Kansas 66219
913.317.9500
www.ric-consult.com

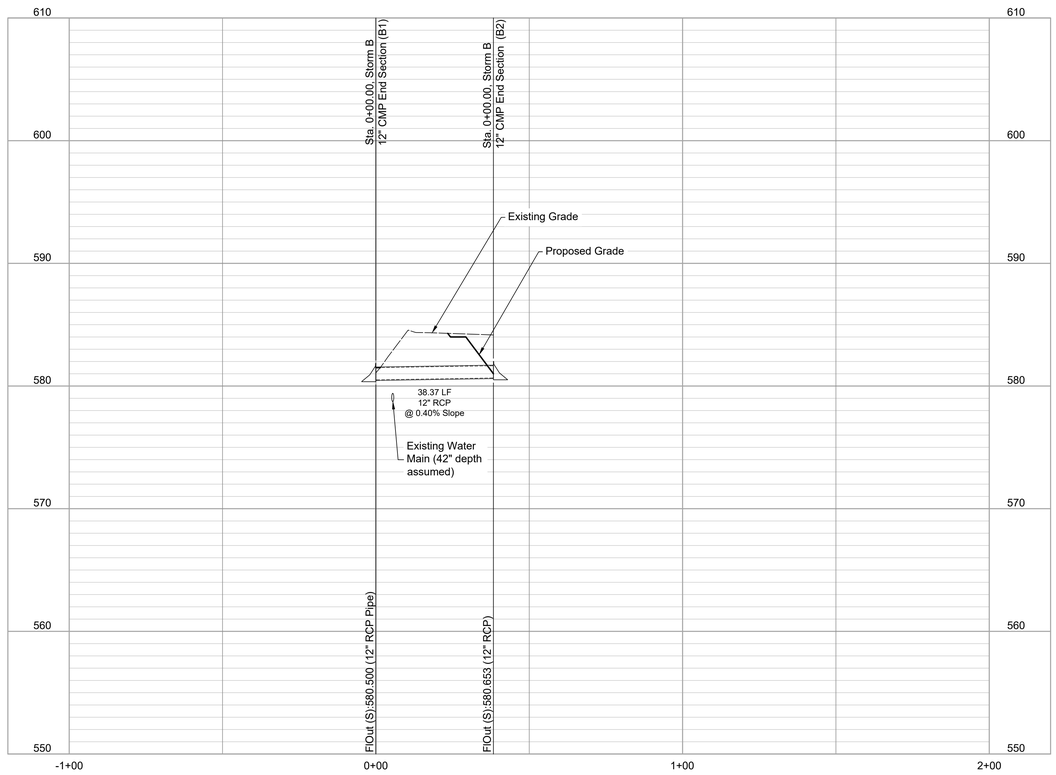
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Storm Sewer Line B

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

Storm B - Plan & Profile

NO.	DATE	REVISION
1	8/16/23	For Submittal

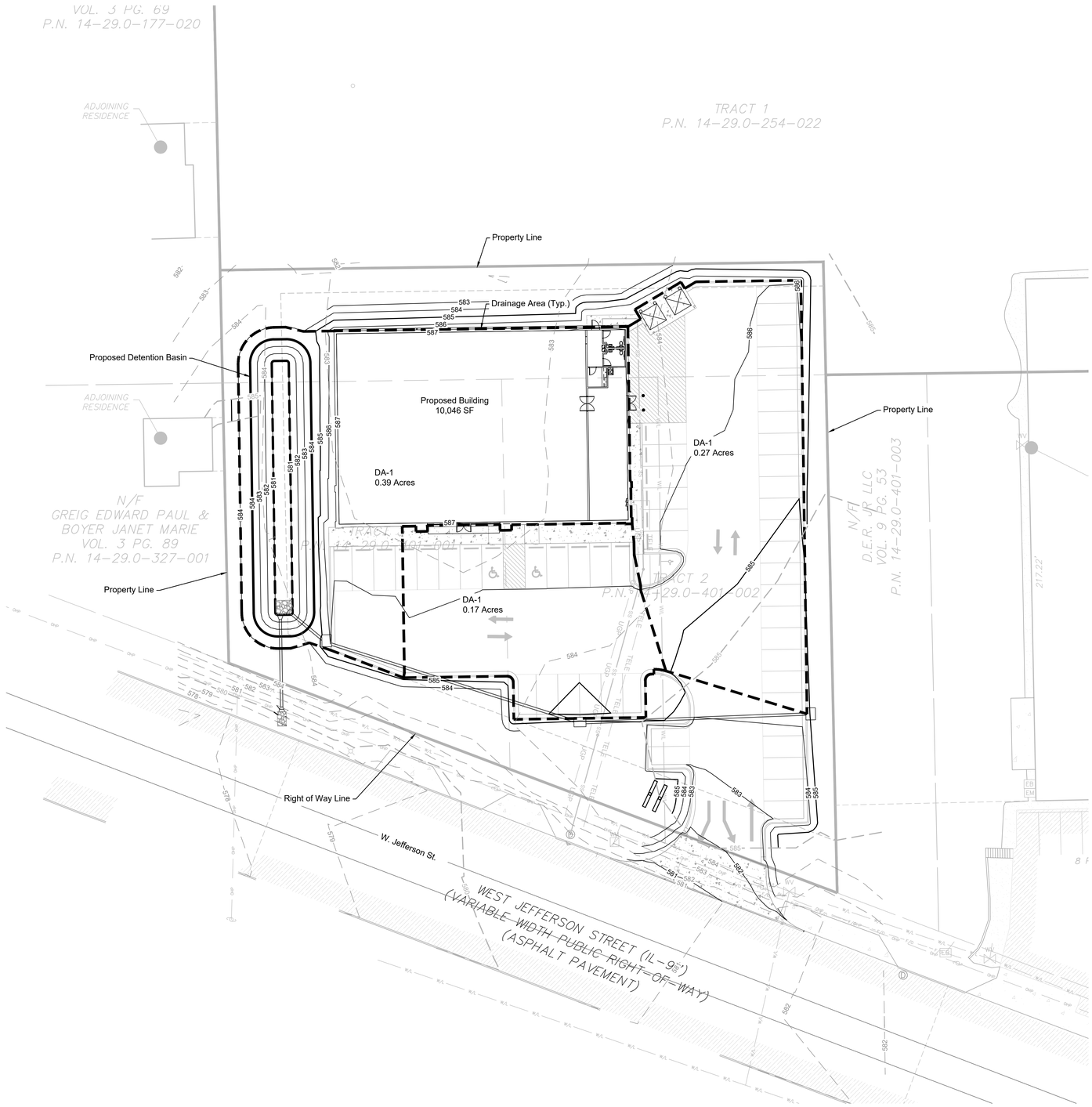
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Site Data Table:

Lot Size: 1.23 Acres
Building Area: 10,046 SF
Total Disturbed Area: 1.04 Acres
Paved Area: 2,245.27 SF
Percent Lot Covered: 77.55%
Percent Building Covered: 23.97%

Cut: 570.51 CY (Cut)
Fill: 3,155.06 CY (Fill)
Net: 2,584.56 CY Net (Fill)

NORTH

1"=20'
0 10' 20'

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

Drainage Area Map

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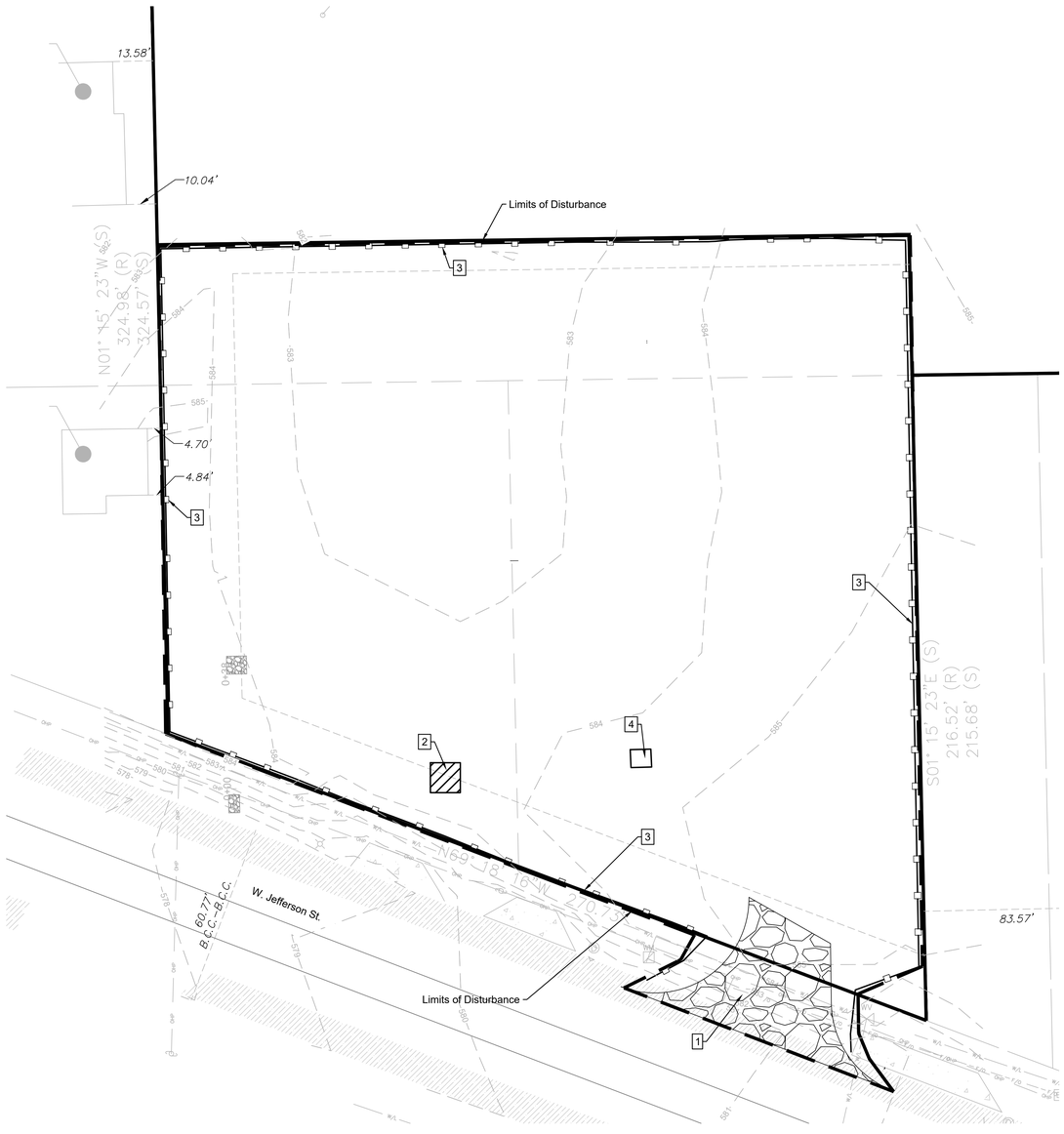
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Disturbed Area for Site Improvements : 1.04

EROSION CONTROL LEGEND

- Stabilized Construction Entrance
- Staging Area
- Concrete Washout
- Limits of Disturbance
- Perimeter Silt Fence
- Inlet Protection

EROSION CONTROL NOTES

1. Erosion control plan modifications shall be required if the plan fails to substantially control erosion and offsite sedimentation.
2. The retention of access controls and sediment controls shall be required for areas where seed has not established 70% cover.
3. The contractor shall temporarily seed and mulch all disturbed areas if soil disturbing activities cease and will not resume for more than 14 days. Stabilization activities must also be completed within 14 days.
4. Install "J' Hooks on silt fence every 100 LF
5. Any location that is being accessed by vehicles needs to have a construction entrance.
6. Contractor must keep a broom on site in order to clean up mud tracked on to the streets immediately.
7. Any contractor parking that is in a disturbed area must be rocked to prevent tracking of mud.

WRITTEN SEQUENCING

1. Implement Pre-Clearing Plan:
   All temporary structural BMP's shown on the pre-clearing plan must be in place before the general clearing operations. Clearing necessary to place temporary structural BMP's is the minimum required for installation. Coordinate clearing necessary to place temporary structural BMP's with local weather forecast so that clearing and placement may be completed within a forecast dry period. Stabilize all erosion control measures after installation. Temporary Barrier Fence shall be in Place, around areas not to be disturbed, prior to any construction activities. This area includes Stream Corridor.
2. Clear and Stabilize Work Areas:
   Grade contractor areas and place all-weather surface on contractor areas.
3. Clearing and Grubbing:
   After Phase I BMP's are installed, contractor may clear, grub, and demo required areas as necessary.

	PROJECT STAGE	PLAN REFERENCE NUMBER	BMP DESCRIPTION	REMOVE AFTER PHASE	NOTES
Phase I	A-Prior to Construction	1	Construction Entrance	II	Install Construction Entrance
		2	Staging Area	II	Install Staging Area
		3	Perimeter Silt Fence	III	Install Silt Fence
		4	Concrete Washout	II	Install Concrete Washout as Shown on Plans Prior to Pouring Any Concrete
Phase II	B - During Land Disturbance & Storm Infrastructure Installation	5	Inlet Protection	III	Install Filter Bags to trap sediment and debris during construction
Phase III	C-Final Stabilization	6	Establish Perennial Vegetation	N/A	Redistribute Topsoil and Seed and Mulch all Disturbed Area. Stabilization Complete when 100% of Disturbed Area is Established with Perennial Vegetation with a Density of 70%

Grading Legend

- Existing Major Contour
- Existing Minor Contour
- Proposed Major Contour
- Proposed Minor Contour

NORTH

1"=20'

0 10' 20'

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

Erosion Control Plan I

NO.	DATE	REVISION
1	8/16/23	For Submittal

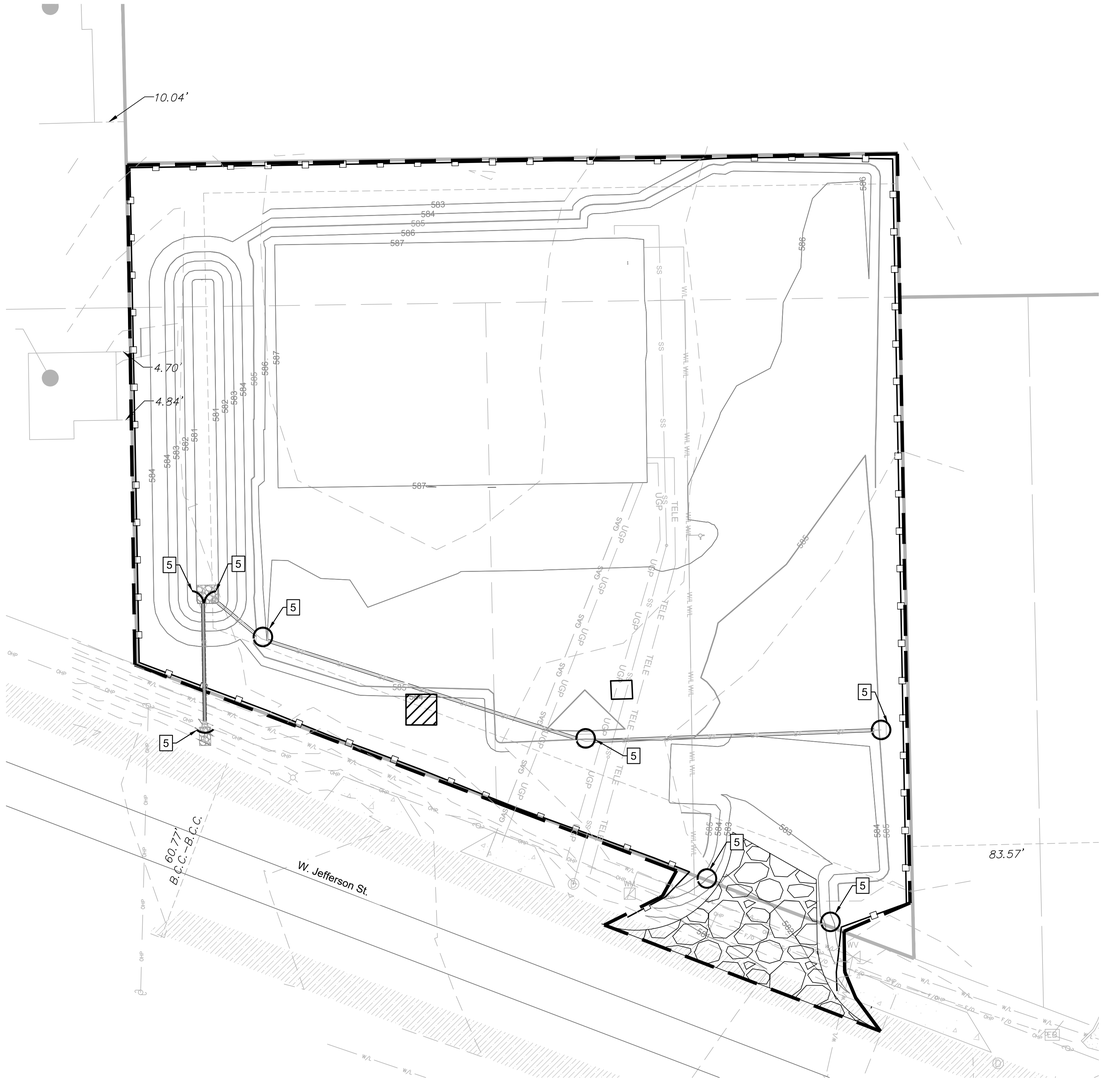
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WWW.RICONSULT.COM
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Disturbed Area for Site Improvements : 1.04 Acres

EROSION CONTROL LEGEND

- Stabilized Construction Entrance
- Staging Area
- Concrete Washout
- Limits of Disturbance
- Perimeter Silt Fence
- Inlet Protection

EROSION CONTROL NOTES

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5. Any location that is being accessed by vehicles needs to have a construction entrance.
6. Contractor must keep a broom on site in order to clean up mud tracked on to the streets immediately.
7. Any contractor parking that is in a disturbed area must be rocked to prevent tracking of mud.

WRITTEN SEQUENCING

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2. Clear and Stabilize Work Areas:
   Grade contractor areas and place all-weather surface on contractor areas.
3. Clearing and Grubbing:
   After Phase I BMP's are installed, contractor may clear, grub, and demo required areas as necessary.

	PROJECT STAGE	PLAN REFERENCE NUMBER	BMP DESCRIPTION	REMOVE AFTER PHASE	NOTES
Phase I	A-Prior to Construction	1	Construction Entrance	II	Install Construction Entrance
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Grading Legend

- Existing Major Contour
- Existing Minor Contour
- Proposed Major Contour
- Proposed Minor Contour

NORTH

1"=20'

0 10' 20'

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

Erosion Control Plan II

NO.	DATE	REVISION
1	8/16/23	For Submittal

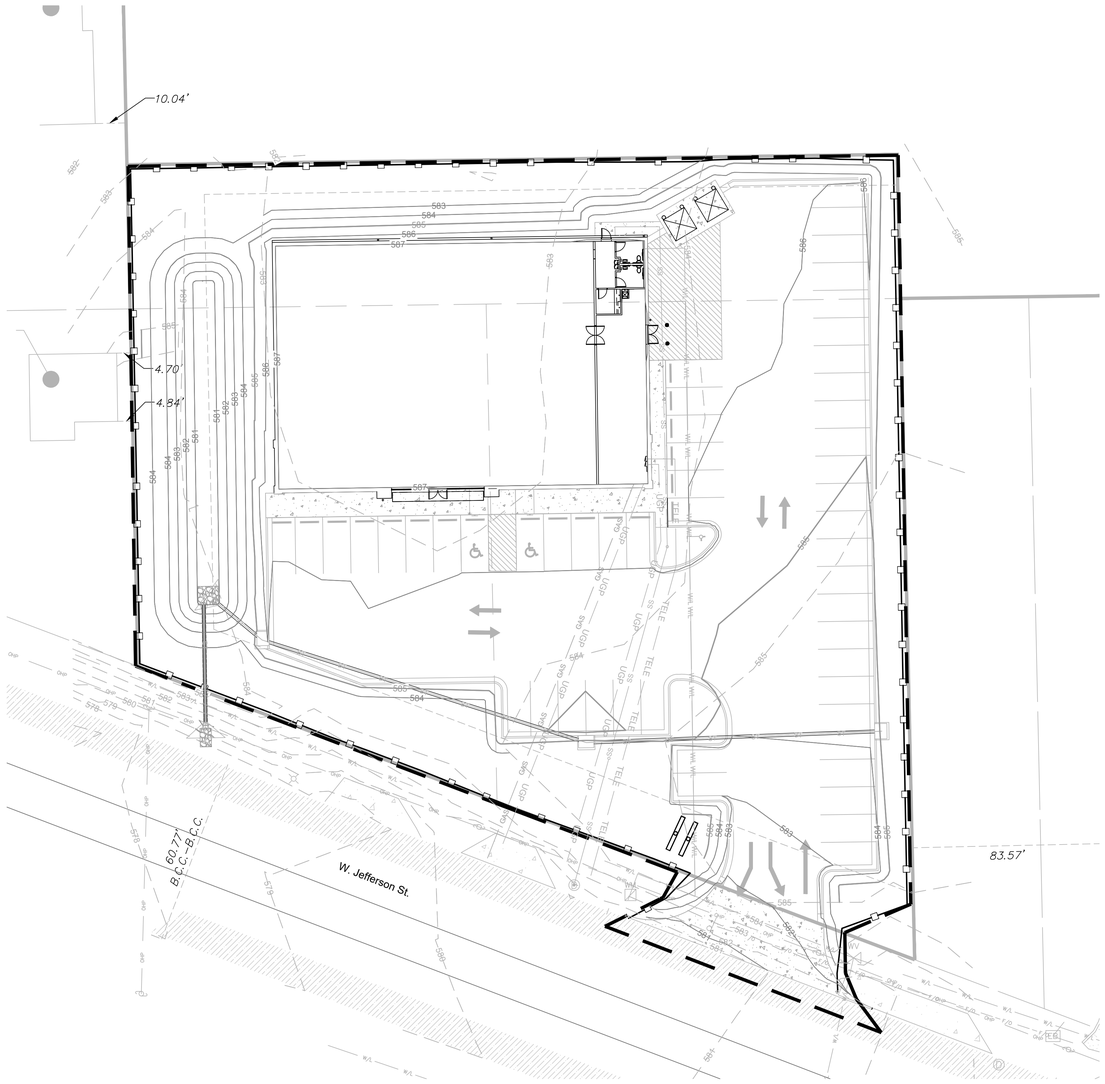
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8653 Penrose Lane
Lorena, Texas 76655
913.377.9500
www.ric-consult.com

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Disturbed Area for Site Improvements : 1.04 Acres

EROSION CONTROL LEGEND

- Stabilized Construction Entrance
- Staging Area
- Concrete Washout
- Limits of Disturbance
- Perimeter Silt Fence
- Inlet Protection

EROSION CONTROL NOTES

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5. Any location that is being accessed by vehicles needs to have a construction entrance.
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7. Any contractor parking that is in a disturbed area must be rocked to prevent tracking of mud.

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   Grade contractor areas and place all-weather surface on contractor areas.
3. Clearing and Grubbing:
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	PROJECT STAGE	PLAN REFERENCE NUMBER	BMP DESCRIPTION	REMOVE AFTER PHASE	NOTES
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		2	Staging Area	II	Install Staging Area
		3	Perimeter Silt Fence	III	Install Silt Fence
		4	Concrete Washout	II	Install Concrete Washout as Shown on Plans Prior to Pouring Any Concrete
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Grading Legend

- Existing Major Contour
- Existing Minor Contour
- Proposed Major Contour
- Proposed Minor Contour

NORTH

1"=20'

0 10' 20'

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

Erosion Control Plan III

NO.	DATE	REVISION
1	8/16/23	For Submittal

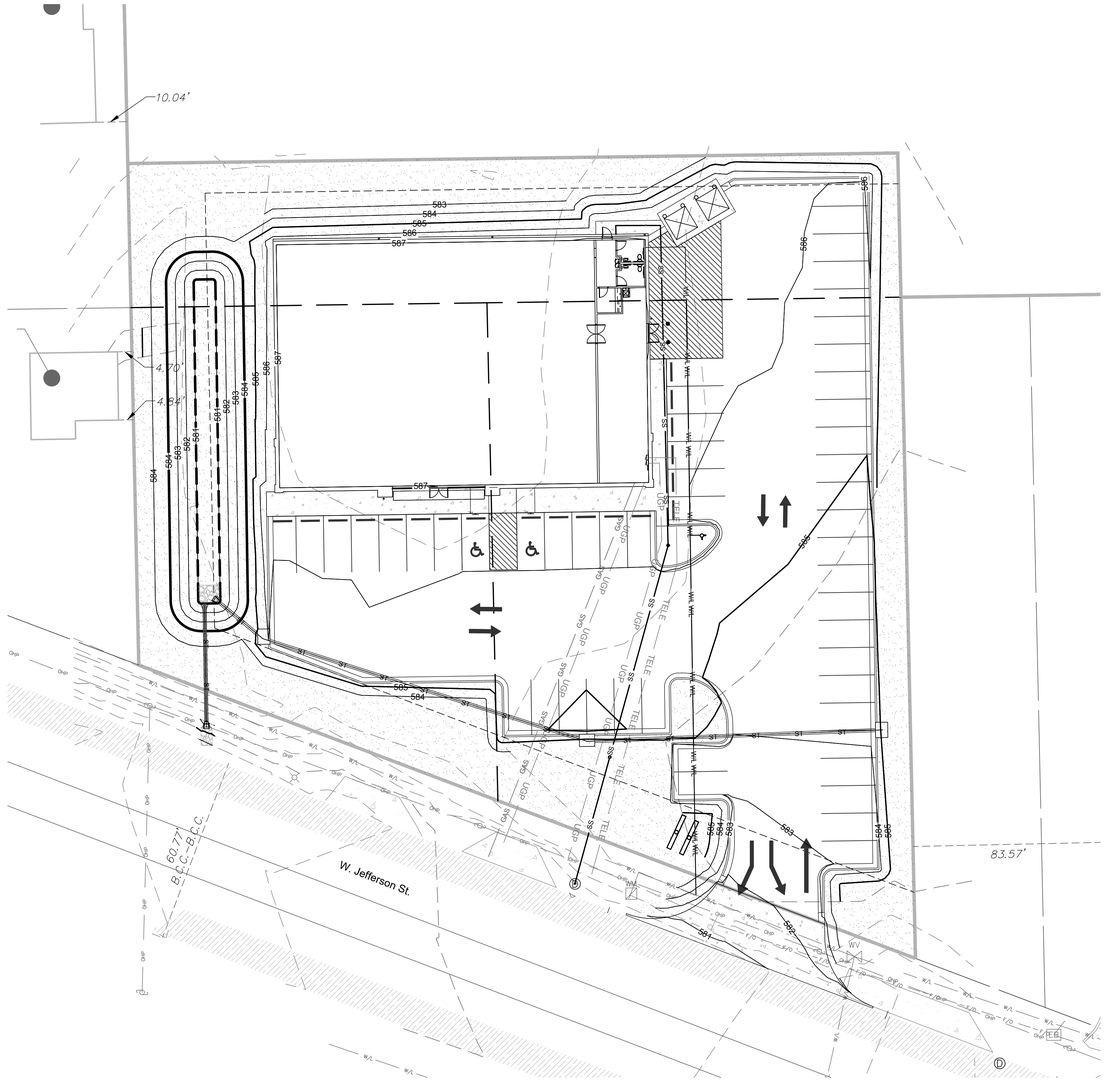
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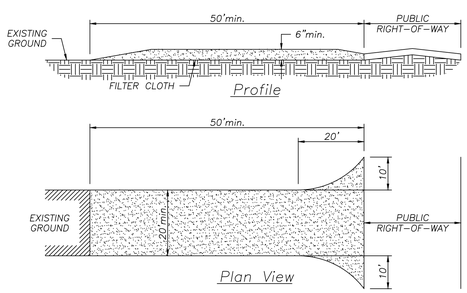
Renaissance Infrastructure Consulting
8653 Penrose Lane
Lakeside, Virginia 45659
913.317.9500
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10.04'
4.70'
4.94'
83.57'
60.77'
B.L.C.-B.L.C.
W. Jefferson St.
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
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D40

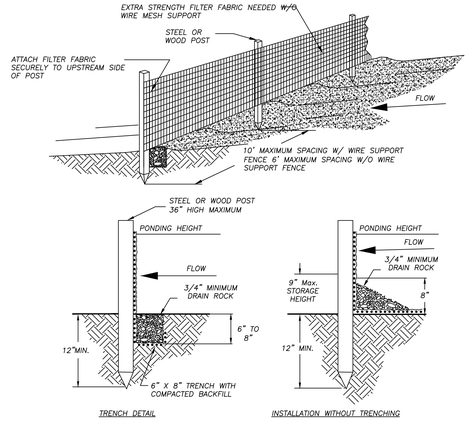


CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE – USE (2) INCH STONE, OR RECLAIMED OR RECYCLED EQUIVALENT.
2. LENGTH – AS REQUIRED, BUT NOT LESS THAN (50) FEET.
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AS NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

Temporary Construction Entrance

Not to Scale

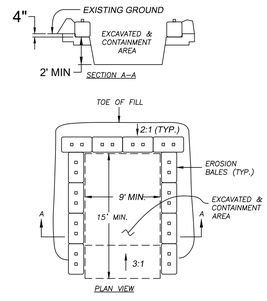


NOTES:

1. MUST BE INSTALLED PROPERLY TO AVOID NOTICE OF VIOLATION.
2. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE POUNDING EFFICIENCY.
3. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
4. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

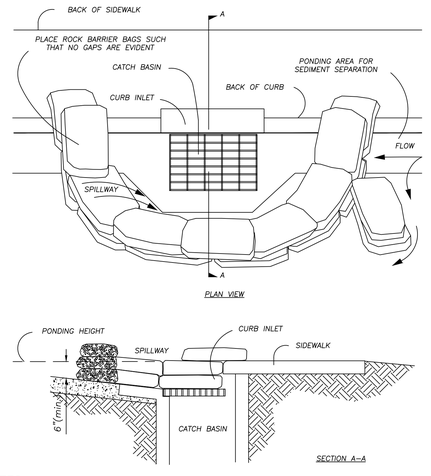
Filter Fabric Silt Fence

Not to Scale



Concrete Washout

Not to Scale



NOTES:

1. ALL ROCK BAG BARRIERS MUST AGREE WITH THE NOTES ON PREVIOUS PAGE.
2. PLACE CURB TYPE ROCK BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
3. BAGS OF WOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
4. LEAVE ONE SANDBAG GAP IN THE TOP ROW ON THE SIDE AWAY FROM FLOW, TO PROVIDE A SPILLWAY; OR IN THE CENTER IF PONDING IS NEEDED ON BOTH SIDES.
5. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY

Rock Bag Curb Inlet Barrier

Not to Scale

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

Erosion Control Detail

NO.	DATE	REVISION
1	8/16/23	For Submittal

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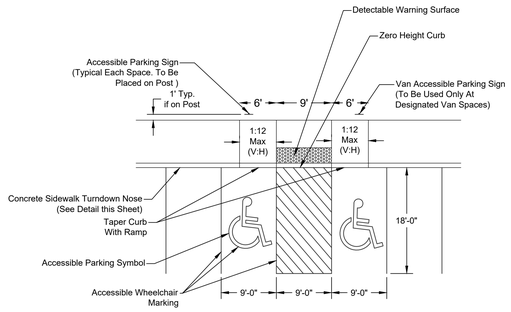
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913.317.9500
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8653 PENROSE LANE
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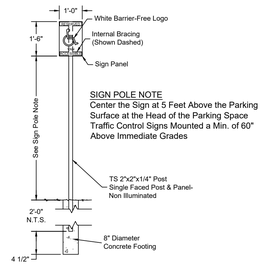
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Curb & Gutter Detail
Not to Scale

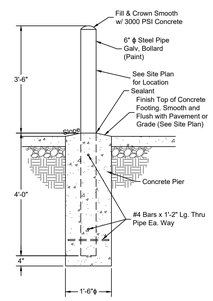


Note:
Accessible Parking Symbol and Signage Shall Comply with the Applicable Recommendations of the Manual of Uniform Traffic Control Devices (MUTCD)

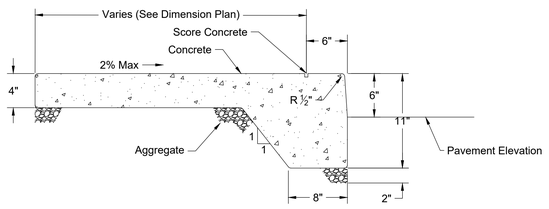
ACCESSIBLE PARKING DETAIL
Not to Scale



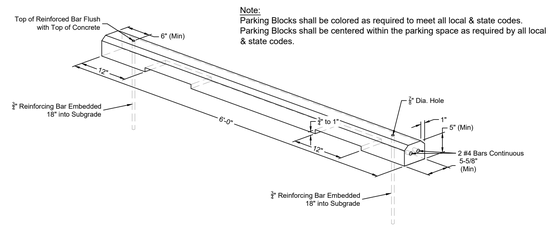
HANDICAP SIGNAGE
Not to Scale



BOLLARD DETAIL
Not to Scale

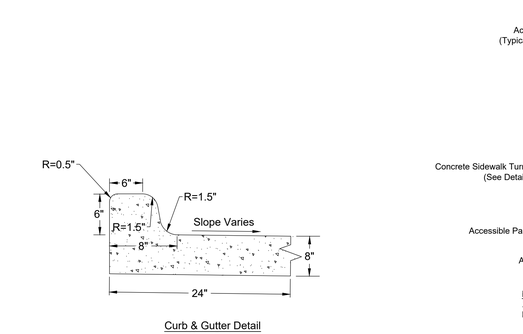


Integral Sidewalk - Curb Detail
Not to Scale

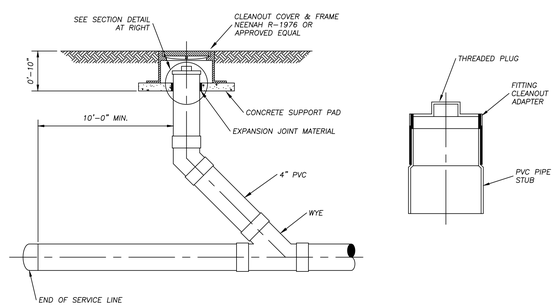


Note:
Parking Blocks shall be colored as required to meet all local & state codes.
Parking Blocks shall be centered within the parking space as required by all local & state codes.

CONCRETE PARKING BLOCK DETAIL
Not to Scale



FLUME DETAIL
Not to Scale



CLEANOUT
Not to Scale

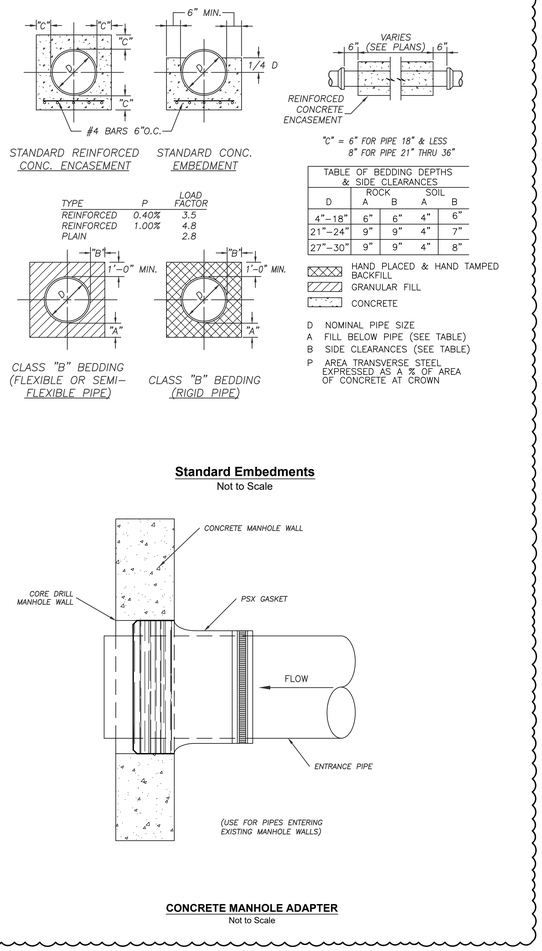


TABLE OF BEDDING DEPTHS & SIDE CLEARANCES

	ROCK		SOIL	
D	A	B	A	B
4"–18"	6"	6"	4"	6"
21"–24"	9"	9"	4"	7"
27"–30"	9"	9"	4"	8"

Standard Embedments
Not to Scale

CONCRETE MANHOLE ADAPTER
Not to Scale

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

Standard Details I

NO.	DATE	REVISION
1	8/16/23	For Submittal

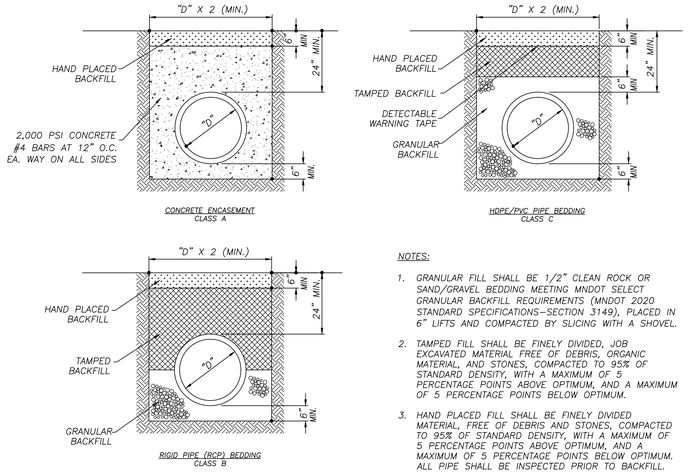
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8653 Penrose Lane
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PATRICK N CASSITY
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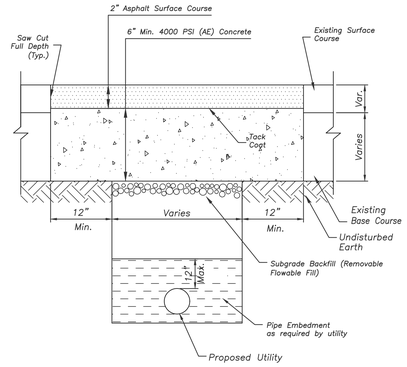
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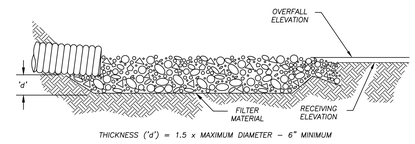
NOTES:

1. GRANULAR FILL SHALL BE 1/2" CLEAN ROCK OR SAND/GRAVEL BEDDING MEETING MNDOT SELECT GRANULAR BACKFILL REQUIREMENTS (MNDOT 2020 STANDARD SPECIFICATIONS-SECTION 3149), PLACED IN 6" LIFTS AND COMPACTED BY SLICING WITH A SHOVEL.
2. TAMPED FILL SHALL BE FINELY DIVIDED, JOB EXCAVATED MATERIAL FREE OF DEBRIS, ORGANIC MATERIAL, AND STONES, COMPACTED TO 95% OF STANDARD DENSITY, WITH A MAXIMUM OF 5 PERCENTAGE POINTS ABOVE OPTIMUM, AND A MAXIMUM OF 5 PERCENTAGE POINTS BELOW OPTIMUM.
3. HAND PLACED FILL SHALL BE FINELY DIVIDED MATERIAL, FREE OF DEBRIS AND STONES, COMPACTED TO 95% OF STANDARD DENSITY, WITH A MAXIMUM OF 5 PERCENTAGE POINTS ABOVE OPTIMUM, AND A MAXIMUM OF 5 PERCENTAGE POINTS BELOW OPTIMUM. ALL PIPE SHALL BE INSPECTED PRIOR TO BACKFILL.
4. ALL PIPE COVERED PRIOR TO INSPECTION SHALL BE UNCOVERED AT THE CONTRACTORS EXPENSE.

Pipe Bedding
Not to Scale

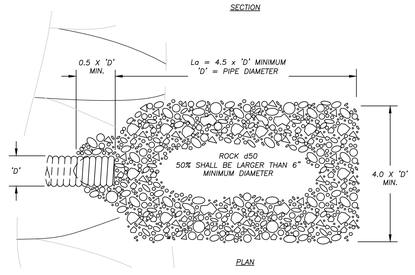


Asphaltic Concrete Street Repair
Not to Scale



THICKNESS ('d') = 1.5 x MAXIMUM DIAMETER - 6" MINIMUM

SECTION



PLAN

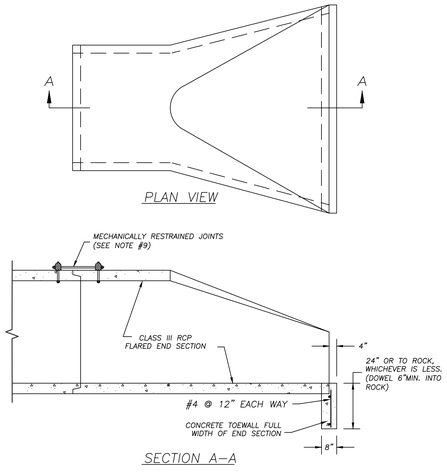
NOTES:

1. 'La' = LENGTH OF APRON. DISTANCE 'La' SHALL BE OF SUFFICIENT LENGTH TO DISSIPATE ENERGY.
2. APRON SHALL BE AT A ZERO GRADE AND ALIGNED STRAIGHT.
3. FILTER MATERIAL SHALL BE FILTER FABRIC OR 6" THICK MINIMUM GRADED GRAVEL LAYER.
4. SIDE SLOPES SHALL BE 4:1 UNLESS NOTED OTHERWISE.
5. ROCK SHALL CONFORM TO MNDOT SECTION 3601 FOR RIPRAP MATERIAL.

Energy Dissipater (Riprap Outlet)
Not to Scale

NOTES:

1. ALL CONCRETE SHALL BE 4000 psi.
2. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 60 AS PER ASTM A615, AND SHALL BE BENT COLD.
3. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS, 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF +/- 1/8" SHALL BE PERMITTED.
4. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
5. ALL CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR CONSTRUCTION, MINNESOTA DEPARTMENT OF TRANSPORTATION, LATEST EDITION, AND SPECIAL PROVISIONS.
6. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
7. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
8. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND CONTRACTING OFFICER PRIOR TO CONSTRUCTION.
9. THE LAST THREE JOINTS OF RCP, INCLUDING THE END SECTION, SHALL BE MECHANICALLY RESTRAINED WHERE DISCHARGING INTO UNIMPROVED SYSTEMS.



End Section w/Toe Wall
Not to Scale

Construction Documents

22-0166-9
Dollar Tree
Springfield, Sangamon County, IL

Standard Details II

NO.	DATE	REVISION
1	8/16/23	For Submittal

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WALL TYPES

1. PRE-ENGINEERED METAL BUILDING (PEMB) STRUCTURE WITH 4" / 8" SPLIT FACED CMU VENEER BELOW 3'-8" AFF. EIFS ABOVE 3'-8". 5/8" GWB TO 12'-0" A.F.F. FINISHED PER SCHEDULE SHEET A2.0.
2. PARTITION WALL: 6" (20 GAGE) METAL STUDS @ 16" OC WITH ONE LAYER 5/8" GWB EACH SIDE TO UNDERSIDE OF STRUCTURE ABOVE. BRACE WALL TO STRUCTURE 4'-0" O.C. ABOVE CEILING. FINISH PER SCHEDULE SHEET A2.0.
3. PARTITION WALL: 6" (20 GAGE) METAL STUDS @ 16" OC WITH ONE LAYER 5/8" GWB TO UNDERSIDE OF STRUCTURE ABOVE ON STOCKROOM SIDE AND TO FINISH CEILING ON TOILET / HALLWAY SIDE. WALLS ON INTERIOR OF TOILET ROOMS & ADJACENT TO MOP SINK SHALL HAVE WATER RESISTANT GWB. FINISHED PER SCHEDULE SHEET A2.0.
4. PLUMBING PARTITION: 6" (20 GAGE) METAL STUDS @ 16" OC WITH ONE LAYER 5/8" GWB EACH EXPOSED SIDE TO FINISHED CEILING. PLUMBING WALLS ON INTERIOR OF TOILETS SHALL HAVE WATER RESISTANT GWB. FINISHED PER SCHEDULE SHEET A2.0.
5. PARTITION WALL: 3 5/8" (20 GAGE) METAL STUDS @ 16" OC WITH ONE LAYER 5/8" GWB EXPOSED SIDE TO 6" ABOVE FINISHED CEILING. FINISH PER FINISH SCHEDULE SHEET A2.0.
6. PARTITION WALL: 3 5/8" (20 GAGE) METAL STUDS @ 16" OC WITH ONE LAYER 5/8" GWB TO UNDERSIDE OF STRUCTURE ABOVE ON STOCKROOM SIDE AND TO FINISH CEILING ON TOILET / HALLWAY / OFFICE ROOM SIDE. WALLS ON INTERIOR OF TOILET ROOMS AND ADJACENT TO DRINKING FOUNTAIN SHALL HAVE WATER RESISTANT GWB. FINISHED PER SCHEDULE SHEET A2.0.
7. PARTITION WALL: 3 5/8" (20 GAGE) METAL STUDS @ 16" OC WITH ONE LAYER 5/8" GWB EACH SIDE TO 8'-0" AFF. FINISH PER FINISH SCHEDULE SHEET A2.0.
8. PARTITION WALL: FIRE RETARDANT 2X4 WOOD STUDS @ 16" OC WITH ONE LAYER 3/4" MDO PLYWOOD (FIRE RETARDANT) EACH SIDE TO 4'-0" AFF. FINISH PER FINISH SCHEDULE SHEET A2.0.
9. PARTITION WALL: FIRE RETARDANT 2X4 WOOD STUDS @ 16" OC WITH ONE LAYER 3/4" MDO PLYWOOD (FIRE RETARDANT) EACH SIDE TO 8'-0" AFF. FINISH PER FINISH SCHEDULE SHEET A2.0.

GENERAL NOTES:

SIGN FOR GROUND UP STORES - BY TENANT

THIS IS A
TOBACCO FREE CAMPUS
FOR THE HEALTH OF OUR EMPLOYEES, VENDORS AND VISITORS
SMOKING IS NOT PERMITTED ON THIS CAMPUS
THIS INCLUDES ALL BUILDINGS, PARKING LOTS AND GROUNDS

SMOKE FREE NOTE: PROVIDE SIGNAGE AT EVERY ENTRY POINT ON EXTERIOR WALL INTO THE BUILDING PER THE GROUND UP OR IN-LINE STORE TYPE ABOVE. SIGNS MUST BE 10"HX7W" IN SIZE. THE MATERIAL IS PREFERRED TO BE ALUMINUM. SIGNS MAY BE FOUND AT WWW.complIancesIgns.com

CERTIFICATE OF OCCUPANCY

THE CONTRACTOR IS RESPONSIBLE FOR THE "CERTIFICATE OF OCCUPANCY" FOR THE BUILDING.

KNOX BOX NOTE:
IF A KNOX BOX ENTRY SYSTEM IS REQUIRED BY THE CODES GOVERNING THE CONSTRUCTION OF THE PROJECT, PROVIDE RECESSED KNOX BOX PROVIDED BY THE GC PRIOR TO THE COMPLETION OF THE PROJECT. LOCATE PER LOCAL CODE REQUIREMENTS. KNOX BOX CONTACT - 866-625-4563

MAILBOX

CONTRACTOR SHALL PROVIDE AND INSTALL A MAIL BOX IF LOCAL POST OFFICE REQUIRES. COORDINATE WITH DOLLAR TREE FOR MAIL BOX SIZE REQUIREMENTS.

CONSTRUCTION CAMERAS

ALL PROJECTS ARE REQUIRED TO HAVE A JOBSITE MONITORING SYSTEM WITH NECESSARY POWER FOR THE DURATION OF THE CONSTRUCTION, INCLUDING ANY SITE WORK.
(IF CAMERA IS NOT ACTIVE AFTER 1 WEEK OF CONSTRUCTION START, DOLLAR TREE MAY ELECT TO CONTRACT DIRECTLY WITH OX BLUE FOR SAID CAMERA AND BILL LANDLORD BACK THE COST OF THE CAMERA FOR THE DURATION OF CONSTRUCTION.)

NOTE : ALLOW 4 WEEKS FOR ORDERING & DELIVERY OF CAMERAS

FINISH SCHEDULE

ROOM #	SPACES	FLOORS	BASES	WALLS	CEILING	NOTES
101	SALES	CONCRETE READY FOR TENANTS FLOOR FINISH	---	GWB W/ LEVEL 4 FINISH READY FOR TENANTS PAINT	ACT-1 AT 11'-10" AFF	
102	OFFICE	CONCRETE READY FOR TENANTS FLOOR FINISH	---	GWB W/ LEVEL 4 FINISH READY FOR TENANTS PAINT	EXPOSED (SEE 3B,4B,5B)	
103	HALLWAY	CONCRETE READY FOR TENANTS FLOOR FINISH	---	GWB W/ LEVEL 4 FINISH READY FOR TENANTS PAINT	ACT-1 AT 8'-0" AFF	
104	TOILET	SHEET VINYL	SV-1	FRP-1 TO 8'-0" AFF	WATER RESISTANT GWB AT 8'-0" AFF. PAINT 1	3
105	TOILET	SHEET VINYL	SV-1	FRP-1 TO 8'-0" AFF	EXPOSED NO PAINT	3
106	STOCKROOM	CONCRETE READY FOR TENANTS FLOOR FINISH	---	GWB W/ LEVEL 4 FINISH READY FOR TENANTS PAINT	EXPOSED NO PAINT	12
107	EMPLOYEE AREA	CONCRETE READY FOR TENANTS FLOOR FINISH	---	GWB W/ LEVEL 4 FINISH READY FOR TENANTS PAINT	EXPOSED NO PAINT	1

FINISH NOTES

1. DO NOT PROVIDE SEAL CHEMS SPEC HARDENER (OR EQUIVALENT) ONTO CONCRETE FLOORS IN STOCKROOM THAT WILL RECEIVE CLEAR ACRYLIC SEALER.
2. EXTERIOR SIDE OF HOLLOW METAL DOORS AND FRAMES TO BE PRIMED & PAINTED IN FIELD WITH 1 COAT PRIMER AND 2 COATS SEMI-GLOSS, COLOR PER EXTERIOR FINISH SCHEDULE.
3. ELIASON DOORS TO BE FACTORY FINISHED PER DOOR SCHEDULE.
4. HOLLOW METAL FRAMES AND WOOD RESTROOM DOORS TO BE PRIMED & PAINTED IN FIELD WITH 1 COAT PRIMER AND 2 COATS SEMI-GLOSS, COLOR WHITE.

FINISHES

FLOOR	SHEET VINYL	SHEET VINYL: MANUFACTURER: MANNINGTON COMMERCIAL, COLLECTION: BIOSPEC CO|CES; STYLE: BIOSPEC MD1 COLOR: LINEN (15420) OR SIMILAR. CONTACT DOLLAR TREE CPM FOR ALTERNATE APPROVAL.
BASE	SV-1	SHEET VINYL BASE: INTEGRAL, 3/8" RADIUS, 6" HIGH COVED BASE W/ COVE STICK AND EXTRUDED ALUMINUM CAP TRIM.
WALLS	FRP-1	INSTALL FRP (GLASSBORD # 85 - WHITE W/ PEBBLED EMBOSSED FINISH, BY CRANE COMPOSITES OR EQUAL) (FORMALLY KEMLITE) TO 8'-0" AFF. ON ALL WALL SURFACES IN THE RESTROOMS. INSTALL FRP TO 8'-0" AFF. BEHIND THE MOP SINK AND 4'-0" AFF. BEHIND THE WATER COOLER A MINIMUM OF 1 FT TO EACH SIDE. COMPLETE FRP W/ TRIP CAP ON TOP, SIDES, CORNERS AND JOINTS, INCLUDING CAULKING AS REQD. BY MFG. VERIFY LOCAL CODE FOR ADDITIONAL APPLICATION IF REQD.
CEILING	ACT-1	2'-0" X 4'-0" SUSPENDED LAY-IN CEILING TILE BY ARMSTRONG "CORTEGA" SQUARE EDGE #769-COLOR WHITE IN WHITE METAL TEE GRID.
	PAINT-1	(2 COATS) SUPER HIDE ZERO VOC LATEX INTERIOR SEMI-GLOSS #358 COLOR-WHITE

DOOR SCHEDULE

DOORS #	W	H	T	MATERIAL	DETAILS TYPE	HEAD	JAMB	SILL	FR	HDW SET	DOOR NOTES
100	3'-0"	6'-8"	1 3/4"	SOLID CORE WOOD	C	-	-	-	-	100A	2
200	PR 3'-0"	7'-0"	1 3/4"	18 GA HOLLOW METAL	D	-	-	-	-	200A	2
300	3'-0"	6'-8"	1 3/4"	SOLID CORE WOOD	C	-	-	-	-	300C	2
400	PR 3'-0"	7'-0"	1 3/4"	18 GA HOLLOW METAL	E	-	-	-	-	400A	2
401	3'-0"	7'-0"	1 3/4"	18 GA HOLLOW METAL	B	-	-	-	-	400B	2
500	PR 3'-0"	7'-0"	1 3/4"	ALUM STOREFRONT	A	-	-	-	-	500A	12,3

DOOR NOTES

1. PROVIDE A SIGN POSTED ON THE EGRESS SIDE, ON OR ADJACENT TO THE DOOR STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED." THE SIGN SHALL BE IN LETTERS 1" HIGH ON A CONTRASTING BACKGROUND.
2. REFER TO FINISH NOTES 2 & 4 FOR PAINTING OF DOOR AND FRAMES. REFER TO FINISH NOTES 3 FOR ELIASON DOOR.
3. PROVIDE CLEAR ANODIZED ALUMINUM STOREFRONT SYSTEM WITH 4 1/2" x 2" CENTER SET PROFILE AND THERMALLY BROKEN FRAMES. DESIGNER OF RECORD SHALL DETERMINE IF LOCAL CODES REQUIRE HIGH IMPACT GLAZING AND FRAMES PER LOCAL CODES.

GENERAL HARDWARE NOTES

1. REINFORCE JAMBS WITH WOOD BLOCKING.
2. WHERE EGRESS DOORS ARE USED IN PAIRS, THE UNLATCHING OF THE LEAF SHALL NOT REQUIRE MORE THAN ONE (1) OPERATION AS MENTIONED IN GENERAL HARDWARE NOTE 3 ABOVE.
3. CONTROLS AND OPERATING MECHANISMS SHALL BE LEVER-TYPE (OR EQUAL) PROVIDING OPERATION WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS OF INTERIOR DOORS SHALL BE NO GREATER THAN 5 POUNDS (22.2 N).
4. INSTALL TENANT SUPPLIED ACCESSIBLE SIGN ON OUTSIDE ADJACENT WALL SURFACE.
5. THRESHOLDS AT EGRESS DOORS SHALL BE NO MORE THAN 1/2" (MAX) HEIGHT AFF.

DOOR HARDWARE SETS

HDW # 100A
1 1/2 PAIR HINGES, STANDARD WEIGHT
1 MECHANICAL PUSH BUTTON LOCKSET WITH LEVER HANDLE
1 CLOSER
1 FLOOR STOP

HDW # 200A
3 PAIR HINGES, 4 1/2" HEAVY WEIGHT, BALL BEARING PINS
2 CLOSERS
1 COORDINATOR
1 PUSH - PULL LATCH SET
1 DUSTPROOF STRIKE

FIRE RATED STOCKROOM DOOR:
HDW # 200B
3 PAIR HINGES, 4 1/2" HEAVY WEIGHT, BALL BEARING PINS
2 CLOSERS
1 COORDINATOR
1 PUSH - PULL LATCH SET
1 SET AUTOMATIC FLUSH BOLTS (ON INACTIVE LEAF)
1 DUSTPROOF STRIKE
1 STEEL ASTRAGAL
1 THRESHOLD (1/4" MAXIMUM HEIGHT)
1 SMOKE SEAL

HDW # 300C
1 1/2 PAIR HINGES, STANDARD WEIGHT
1 PRIVACY SET WITH LEVER HANDLE
1 CLOSER
FLOOR/WALL STOP

FOR RISK CLASS 4:
1 STOREROOM LOCKSET WITH LEVER HANDLE (2 KEYS)

HDW # 400A
3 PAIR HINGES, 4 1/2" HEAVY WEIGHT, NON- REMOVABLE PINS
1 NON-ALARMED, NON-KEYED PANIC BAR DEVICE
2 OVERHEAD HOLDERS/STOPS
2 FLUSH BOLTS (ON INACTIVE LEAF)
1 DUST PROOF STRIKE
1 PEEP HOLE TO VIEW OUT, MOUNT AT 4'-3" AFF
1 ALUM THRESHOLD (1/2" MAX HEIGHT)
2 SWEEPS
1 WEATHER STRIP
1 RAIN DRIP
1 ASTRAGAL

HDW # 400B
1 1/2 PAIR HINGES, 4 1/2" HEAVY WEIGHT, NON- REMOVABLE PINS
1 NON-ALARMED, NON-KEYED PANIC BAR DEVICE; WITH STAND ALONE ALARM REFER TO DOOR ALARM MOUNTING DETAIL.
1 CLOSER
1 PEEP HOLE TO VIEW OUT, MOUNT AT 4'-3" AFF
1 ALUM THRESHOLD (1/2" MAX HEIGHT)
1 SWEEP
1 WEATHER STRIP
1 RAIN DRIP

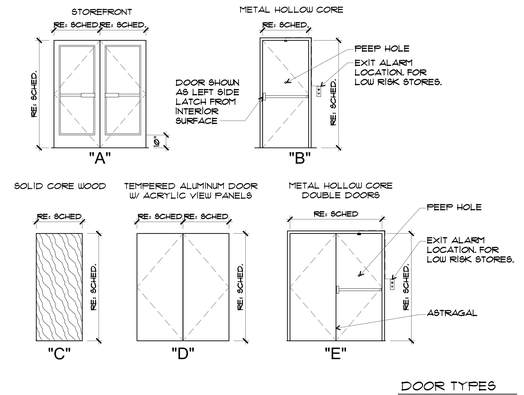
HDW # 500A
CONTINUOUS HINGES PER STOREFRONT MANUFACTURER (BY GENERAL CONTRACTOR)
1 ALUM THRESHOLD (1/2" MAX HEIGHT)
2 CLOSERS WITH STOP ARM AND DROP PLATE
2 PUSH PLATES
2 PULL HANDLES
1 KABA CYLINDER
1 SWEEP
1 WEATHER STRIP
1 COMMERCIAL GRADE DEADLOCK W/ THUMB TURN ON SALES SIDE

NOTE: CLOSER SHALL NOT HAVE A HOLD-OPEN FEATURE.

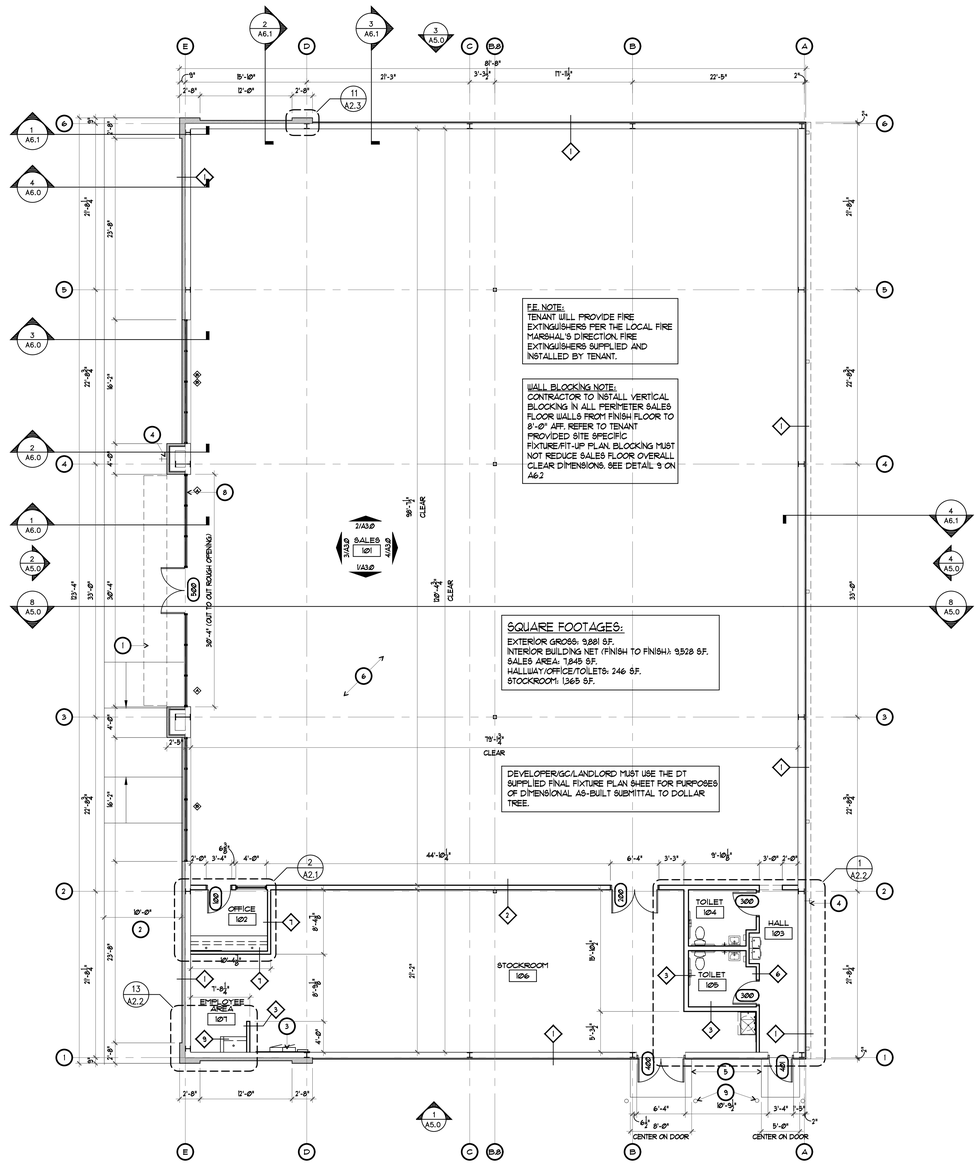
KEYED NOTES

1. CANOPY FURNISHED AND INSTALLED BY TENANT.
2. CONCRETE SIDEWALK SEE SITE PLAN FOR LIMITS - MIN 10'-0" WIDE.
3. PROVIDE ELECTRICAL SERVICE AND ELECTRICAL ITEMS PER THE ELECTRICAL DRAWINGS WITH 3/4" PLYWOOD BACKING BOARD.
4. PROVIDE LOCKABLE RECESSED FREEZE PROOF HOSE BIBB PER PLUMBING DRAWING.
5. PROVIDE 4" (MIN) THICK CONCRETE PAD OR AS REQUIRED BY GEO TECH REPORT
6. PROVIDE 4" (MIN) THICK CONCRETE FLOOR SLAB PER THE STRUCTURAL DRAWINGS. SLAB FLATNESS VARIATION-NOT MORE THAN ONE-QUARTER INCH (1/4") IN TEN FEET (10'-0") FLOOR SHALL MEET A MIN. OF 100 LBS/SQFT. ALL REQUIRED EXPANSION AND CONTROL JOINTS SHALL BE PROPERLY INSTALLED. FLOOR SHALL HAVE FUNCTIONING VAPOR BARRIER INSTALLED BENEATH THE SLAB.
7. VESTIBULE-IF REQUIRED BY CODE. REFER TO VESTIBULE DETAILS ON SHEET A-3.IV. DOOR HARDWARE TO MATCH DOOR SCHEDULE # 500.
8. REFER TO STOREFRONT ELEVATIONS AND DETAILS ON SHEET A5.1
9. PROVIDE (2) 6" DIAM PIPE BOLLARDS AT FREIGHT DOOR AND EGRESS DOOR - FILL WITH CONCRETE AND PAINT SAFETY RED.
10. ROOF LADDER (IF REQUIRED)

NOTE: ALL CONCRETE SUCH AS FLOOR PAD, EXTERIOR PAD(S), SIDEWALKS, ETC. SHALL BE PER GEO TECH AND STRUCTURAL DRAWINGS



DOOR TYPES
1/4" = 1'-0"



1 FLOOR PLAN
SCALE: 1/8" = 1'-0" NORTH

PLAN LEGEND
- ELEVATION CALL-OUT
- DETAIL CALL-OUT
- SECTION CALL-OUT
- DOOR NUMBER
- WALL TYPE

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8/15/2023

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PERMIT

DOLLAR TREE®

A New Retail Location For:
1713 W Jefferson St
Springfield, IL 62702

Date	08/15/2023
Job Number	20-003.12
Drawn By	JS
Checked By	GH
Type	3B-R-3

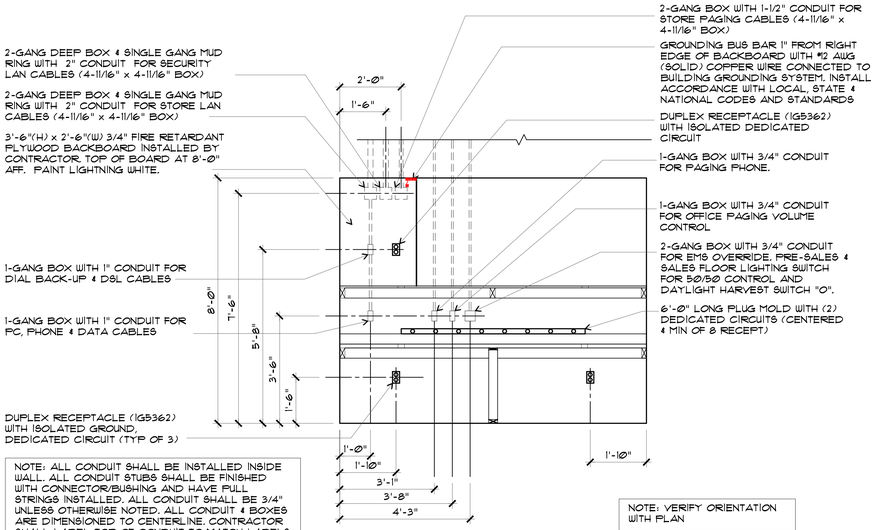
Revisions

Number	Date	Description

A2.0

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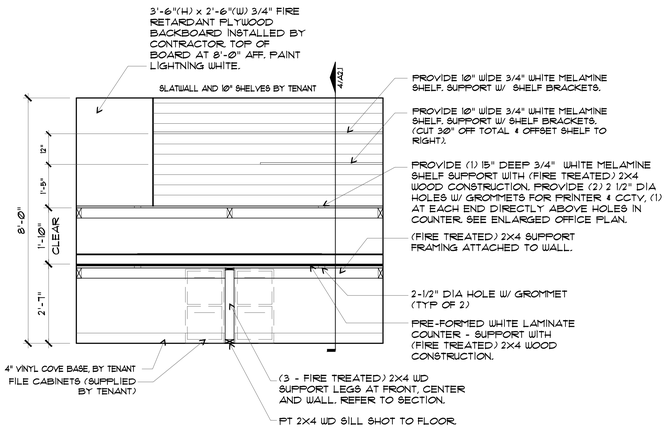
FLOOR PLAN, DOOR SCHEDULE



NOTE: ALL CONDUIT SHALL BE INSTALLED INSIDE WALL. ALL CONDUIT STUBS SHALL BE FINISHED WITH CONNECTOR/BUSHING AND HAVE PULL STRINGS INSTALLED. ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED. ALL CONDUIT & BOXES ARE DIMENSIONED TO CENTERLINE. CONTRACTOR SHALL LABEL TOP OF CONDUIT TO MATCH LABELS ON JACKS/JUNCTIONS BELOW.

NOTE: VERIFY ORIENTATION WITH PLAN

ELECTRICAL AND DATA



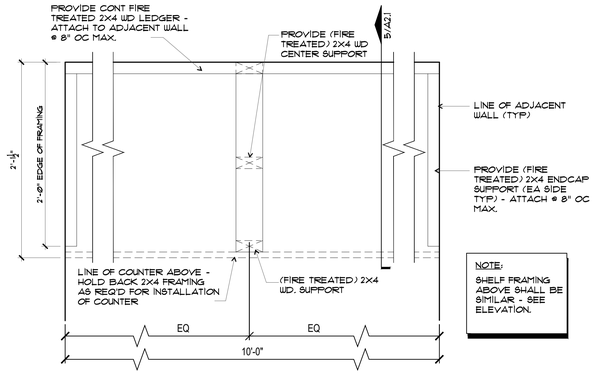
FINISHES, SHELVING AND CONSTRUCTION

RCP KEYED NOTES

1. CENTER GRID ON SALES FLOOR
2. CENTER GRID IN ROOM.
3. CENTER LIGHTS IN ROOM.
4. RE: ELECTRICAL FOR LIGHT LOCATIONS

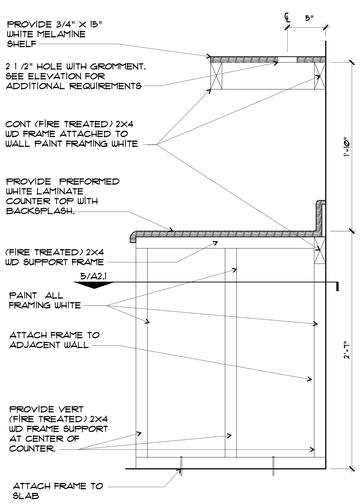
REFLECTED CEILING PLAN LEGEND

- 2'x4' LAY IN CEILING TILE AND TEE GRID SYSTEM. REFER TO P/N. SOH PROVIDE SEISMIC CLIPS AS REQUIRED.
- 5/8" MOISTURE RESISTANT GYP. BD. ON 3-5/8" MTL. STUDS @ 16"o.c. REFER TO P/N. BOH.
- 4' LIGHT FIXTURE SURFACE MOUNTED TO ACT CEILING.
- 8'-0" STRIP LED LIGHT FIXTURE. SURFACE MOUNTED TO ACT/GYP CEILING. HANG AT 11'-6" AFF SALES AREA AND 10'-0" AFF STOCKROOM
- EXIT SIGN W/ BATTERY BACK-UP. CENTER OVER DOOR.
- WALL MOUNTED LIGHT SCONCE. REFER TO ELECT. DRWGS. FOR TYP. AND EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS.
- WALL PACK EXTERIOR LIGHT FIXTURE.

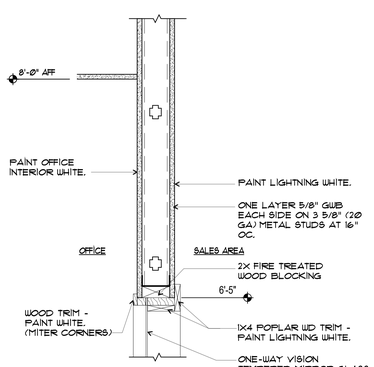


NOTE:
SHELF FRAMING ABOVE SHALL BE SIMILAR - SEE ELEVATION.

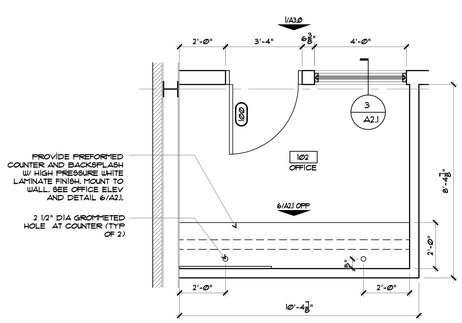
5 OFFICE COUNTER PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



4 OFFICE SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

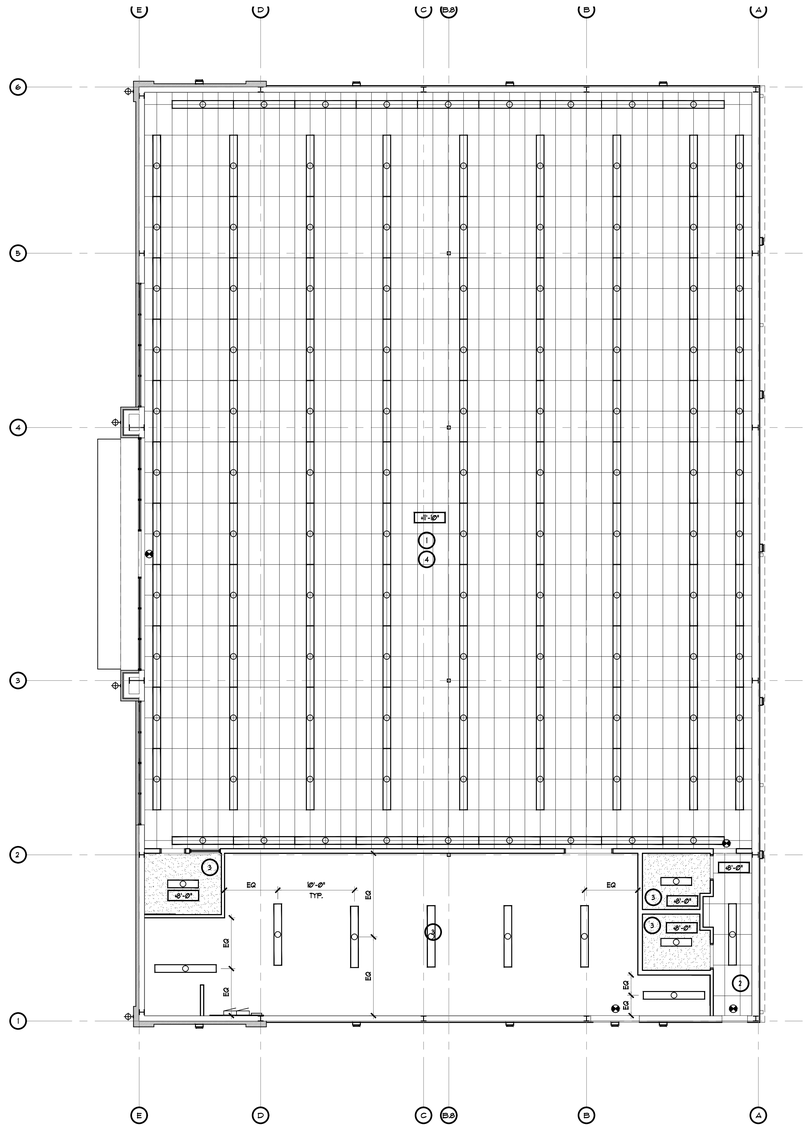


3 HEAD / JAMB DETAIL
SCALE: 1" = 1'-0"



2 ENLARGED OFFICE PLAN
SCALE: 3/8" = 1'-0"

6 OFFICE ELEVATION
SCALE: 1/2" = 1'-0"



1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"
NORTH

h|d ARCHITECTURE
15225 Broadmoor Street
Overland Park, KS 66223
h|d Architecture, LLC

LICENSED ARCHITECT
GREGORY D. HIGHBARGER
001.026132
STATE OF ILLINOIS
8/15/2023

Architect - Gregory D. Highbarger
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REFLECTED CEILING PLAN
OFFICE DETAILS

ACCESSIBLE SIGNAGE LOCATIONS:

WHERE A SIGN CONTAINING RAISED CHARACTERS AND BRAILLE IS PROVIDED AT A DOOR, THE SIGN SHALL BE ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A SIGN CONTAINING RAISED CHARACTERS AND BRAILLE IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THE SIGN SHALL BE PLACED TO THE RIGHT OF THE RIGHT HANDED DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR TO THE RIGHT SIDE OF A DOUBLE DOOR, SIGNAGE SHALL BE ON THE NEAREST ADJACENT WALL. SIGNAGE CONTAINING RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED SO THAT A CLEAR FLOOR AREA 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE RAISED CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN CLOSED POSITION AND 45 DEGREES OPEN POSITION (NOTE: SIGNS CONTAINING RAISED CHARACTERS AND BRAILLE SHALL BE PERMITTED TO BE MOUNTED ON THE PUSH SIDE OF A DOOR LEAF WITH AN AUTOMATIC DOOR CLOSER AND WITHOUT A HOLD OPEN DEVICE.)



PICTOGRAM FIELD DEPICTING THE APPROPRIATE MALE OR FEMALE CHARACTER OF CONTRASTING COLOR TO BACKGROUND: PICTOGRAM FIELD SHALL HAVE A 6" MINIMUM HEIGHT AT RESTROOMS AND WHERE REQUIRED.

6" X 9" PLAQUE W/ 4" ACCESSIBLE PICTOGRAM, 3/4" COPY, GRADE II BRAILLE. MOUNT ON WALL @ 9" MIN. FROM THE STRIKE SIDE DOOR JAMB.

TACTILE LETTERING, APPROPRIATE TO THE REQUIREMENTS OF THE GIVEN SIGN, RAISED 1/32" ABOVE THE BACKGROUND, CHARACTERS SHALL BE UPPERCASE, SANS SERIF FONT, BETWEEN 5/8" AND 2" IN HEIGHT, WIDTH SHALL BE BASED ON THE LETTER "O" AND SHALL BE BETWEEN 55% AND 110% OF THE OF THE THE HEIGHT OF THE LETTER "I". STROKE WIDTH SHALL BE BETWEEN BETWEEN 10% AND 30% BASED ON THE LETTER "I" HAVE SHARPLY DEFINED EDGES, AND SHALL BE OF A CONTRASTING COLOR TO THE BACKGROUND.

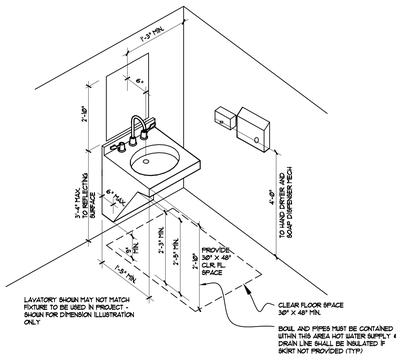
EXIT SIGNS AT EXIT DOORS SHALL INCLUDE RAISED BRAILLE IN ACCORDANCE WITH 2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN SECTION 703 AND 1004 AND FOLLOW LOCAL AND STATE CODES. MOUNT PER INTERIOR SIGN HEIGHT NOTES ABOVE.

GRADE 2 BRAILLE SHALL ACCOMPANY ALL ALPHABETIC / NUMERIC CHARACTERS

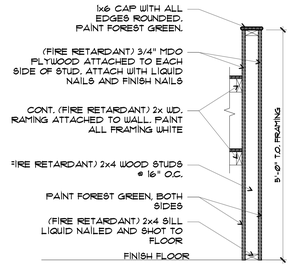
ALL PARTS OF THE SIGN SHALL HAVE A NON-GLARE FINISH.

NOTE: PROVIDE ADDITIONAL SIGNS FOR ACCESSIBILITY AS REQUIRED BY THE ADA AND THE GOVERNING JURISDICTION(S) SUCH AS PUBLIC USE SAFETY DEVICES (SUCH AS FIRE ALARM STATIONS, FIRE EXTINGUISHERS, MANUAL MECHANISMS FOR ACTIVATING EMERGENCY SIGNAL DEVICES, ETC.).

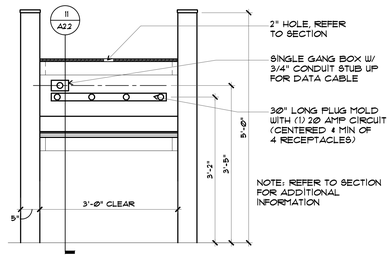
8 ACCESSIBLE SIGNAGE NOTES
N.T.S.



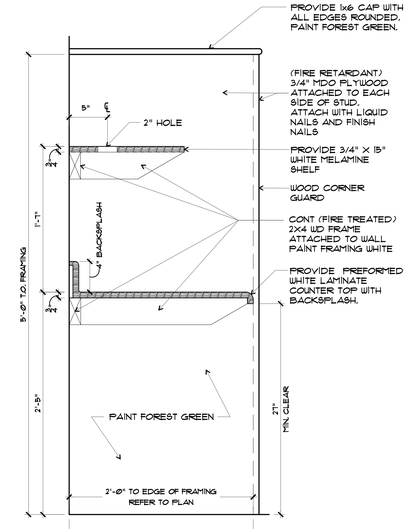
7 LAVATORY CLEARANCES
SCALE: NTS



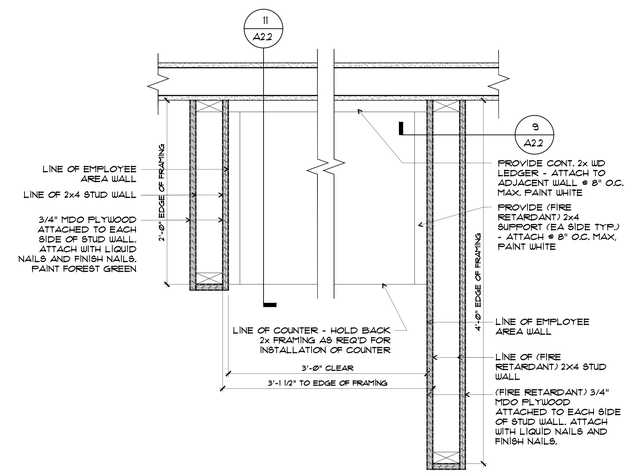
9 EMPLOYEE AREA SECTION
SCALE: 3/4" = 1'-0"



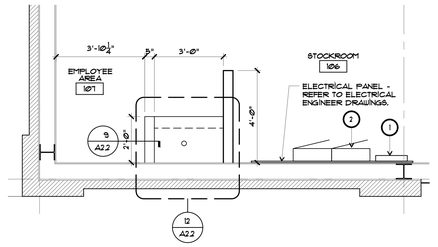
10 TRAINING DESK ELEVATION
SCALE: 3/4" = 1'-0"



11 TRAINING DESK SECTION
SCALE: 1 1/2" = 1'-0"

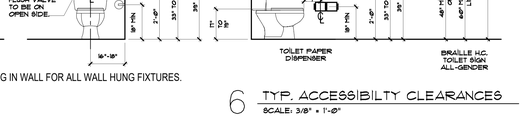


12 TRAINING DESK PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



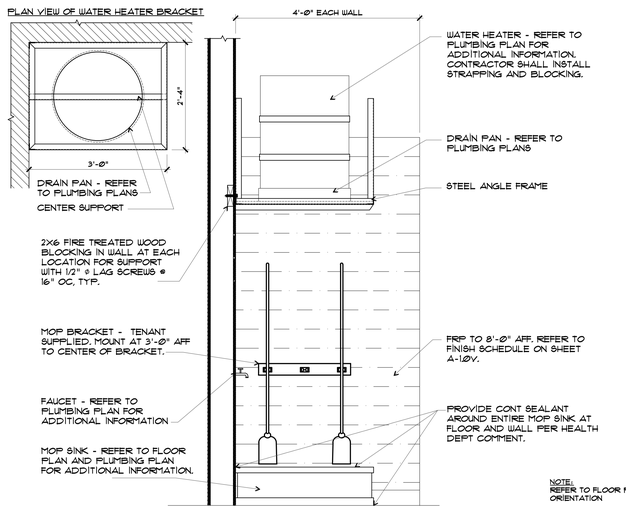
13 EMPLOYEE AREA PLAN
SCALE: 3/8" = 1'-0"

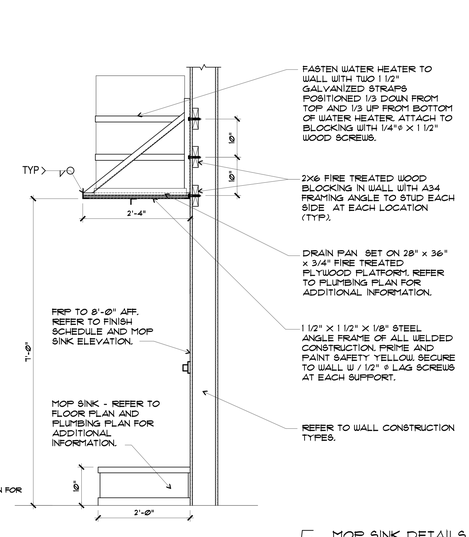




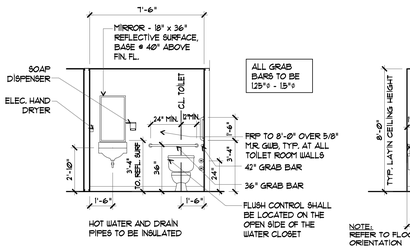
NOTE: PROVIDE BLOCKING IN WALL FOR ALL WALL HUNG FIXTURES.

6 TYP. ACCESSIBILTY CLEARANCES
SCALE: 3/8" = 1'-0"



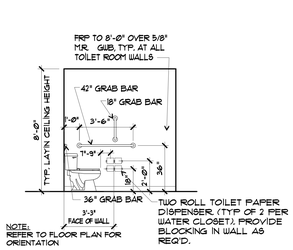


5 MOP SINK DETAILS
SCALE: 3/4" = 1'-0"

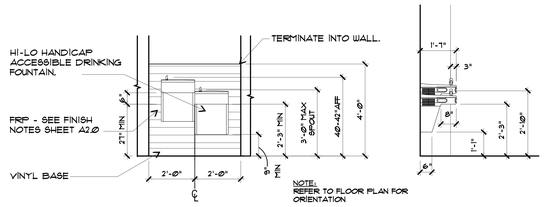


ALL GRAB BARS TO BE 1'25"ø - 1'5"ø

4 TOILET ELEVATION
SCALE: 1/4" = 1'-0"



3 TOILET ELEVATION
SCALE: 1/4" = 1'-0"



2 EWC ELEVATIONS
SCALE: 3/8" = 1'-0"

KEYED NOTES (xx)

1. COMMUNICATION BOARD: PROVIDE 8IM, FIRE RETDNT.AL CLASS, PLYWD. BOARD-¾"x4'wx8'h MOUNTED 24" AFF. SECURE TO FRAMING SO IT HOLDS 225 LBS.
2. 600 AMP ELECT PANELS AND VENSTAR (EMS) INSTALLED ON ¾"x4'x8' FIRE RETARDANT PLYWOOD WITH A UL CLASSIFICATION STAMP THAT MEETS OR EXCEEDS THE REQUIREMENTS FOR CLASS 1 OR CLASS A FLAMESPREAD RATING (IBC 2012 SECT.2303.2) SECURED TO FEMB GIRT FRAME. REFER TO ELECTRICAL DRWGS. FOR ADDITIONAL NOTES.

GENERAL REST ROOM NOTES:

1. LAYOUT OF TOILET ROOM FACILITIES SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES, INCLUDING ALL ADA REQUIREMENTS. SUBMIT ANY MODIFIED LAYOUTS TO DOLLAR TREE FOR THEIR REVIEW AND APPROVAL.
2. TOILET ROOMS SHALL INCLUDE THE FOLLOWING ACCESSORIES:

   18"X36" WALL MIRROR WITH CONCEALED MOUNTING CENTERED OVER EACH LAVATORY. INSTALL W/ BASE OF REFLECTIVE SURFACE @ 40" AFF. PER ADA REQUIREMENTS SHOWN ON THIS SHEET.

   DUAL ROLL TOILET TISSUE DISPENSER, 18 GA. CHROME PLATED STEEL OR APPROVED EQUAL. INSTALL PER ADA REQUIREMENTS SHOWN ON THIS SHEET.

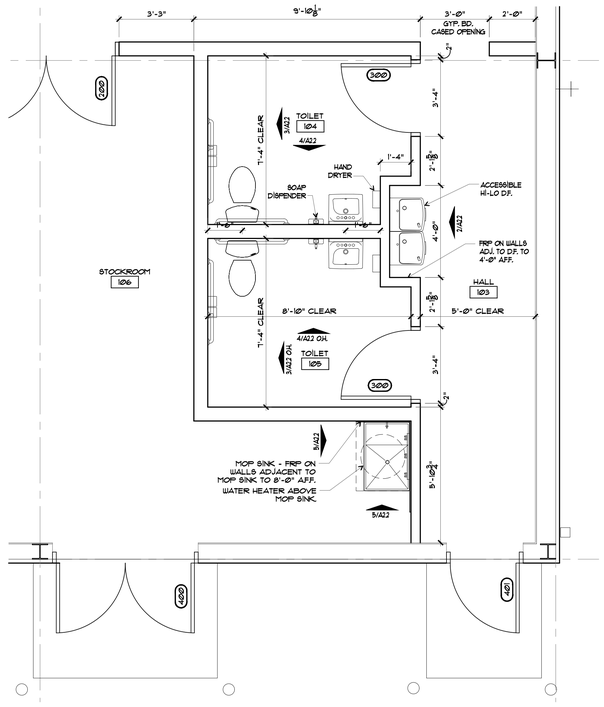
   STN. STL. COAT HOOK MOUNTED TO DOOR FACE OR APPROVED EQUAL. INSTALL HOOK @ 4'-0" AFF. MAX.

   1 1/4" ø x 36" & 42" & 18" STN. STL. CODE APPROVED GRAB BARS MOUNTED TO WALL. INSTALL GRAB BARS PER ADA REQUIREMENTS SHOWN ON THIS SHEET.

   PROVIDE JUNCTION BOX PER ELECTRICAL DRWGS. FOR TENANT SUPPLIED AND INSTALLED HAND DRYER.

   SOAP DISPENSER MOUNTED PER ADA REQUIREMENTS SHOWN ON THIS SHEET.

   CODE APPROVED ROOM IDENTIFICATION SIGN INSTALLED ADJACENT TO STRIKE JAMB/LATCH SIDE OF DOOR W/ HORIZONTAL CENTERLINE @ 60" AFF.
3. INSTALL CONTINUOUS FIRE RETARDANT TREATED 2x6 BLOCKING BETWEEN STUDS FOR ALL HANDRAILS, GRAB BARS, FIXTURES, BRACKETS, ACCESSORIES, CABINETRY, AND MISC. SPECIALTIES AS REQUIRED, UNLESS NOTED OTHERWISE.
4. USE 5/8" MOISTURE RESISTANT G.W.B. (GREENBOARD) FOR TOILET ROOM WALLS.
5. DOOR HARDWARE MUST BE MOUNTED BETWEEN 34 (MIN) & 48 INCHES (MAX.)
6. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.



1 ENLARGED RESTROOM PLAN
SCALE: 3/4" = 1'-0" NORTH

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15225 Broadmoor Street
Overland Park, KS 66223
h|d Architecture, LLC

LICENSED ARCHITECT
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001.026132
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8/15/2023

Architect - Gregory D. Highbarger
License - Illinois - 001.026132

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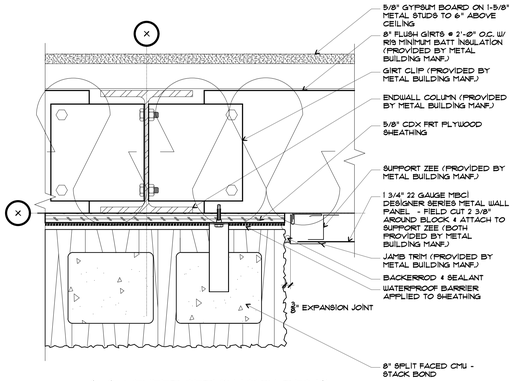
Revisions

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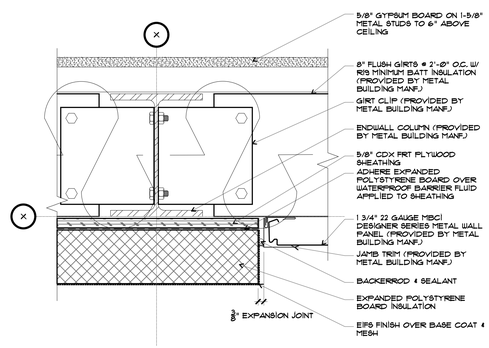
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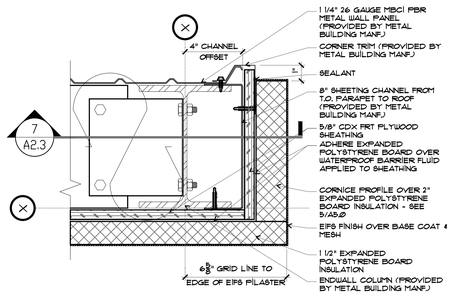
ENLARGED PLANS
RESTROOM DETAILS AND ELEVATIONS



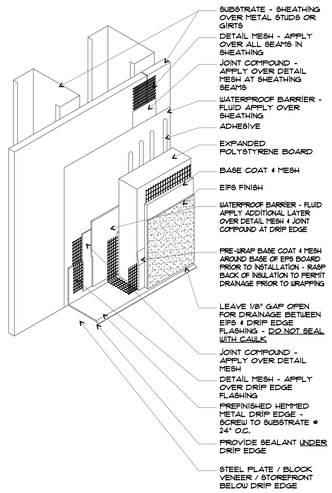
11 VENEER TERMINATION DETAIL
SCALE: 3" = 1'-0"



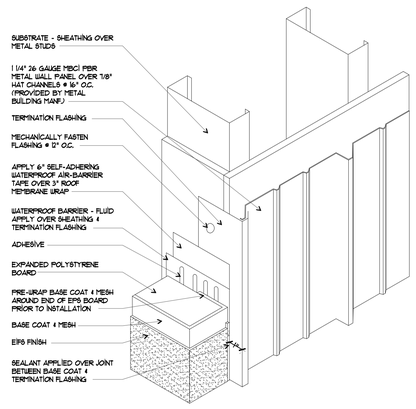
10 EIFS TERMINATION DETAIL
SCALE: 3" = 1'-0"



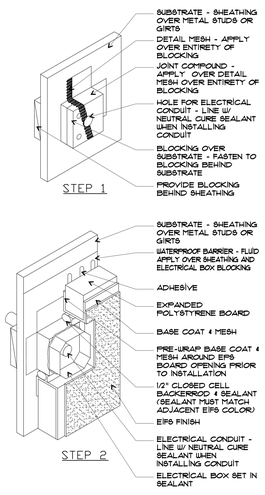
9 EIFS TERMINATION DETAIL
SCALE: 3" = 1'-0"



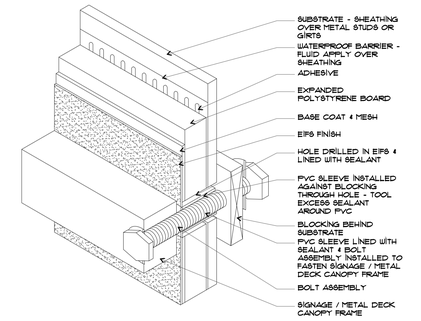
8 EIFS DRIP EDGE / ATTACHMENT DETAIL
SCALE: 3" = 1'-0"



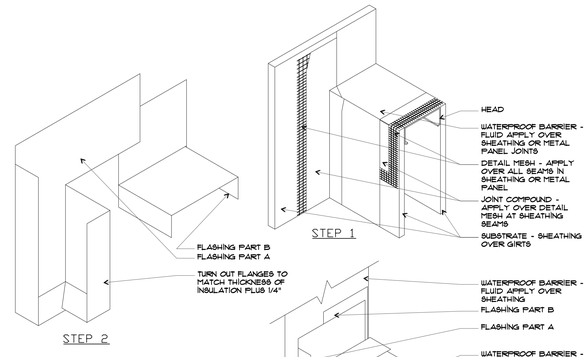
7 EIFS TERMINATION DETAIL
SCALE: 3" = 1'-0"



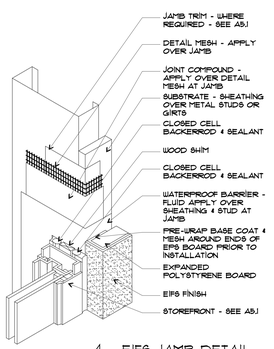
5 EIFS ELECTRICAL BOX DETAIL
SCALE: 3" = 1'-0"



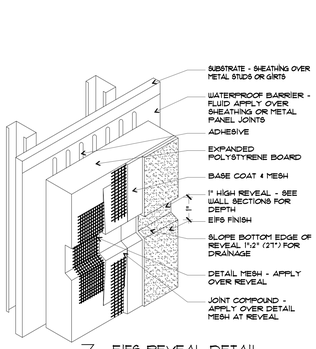
5 EIFS SIGNAGE/MTL CANOPY ANCHORAGE DETAIL
SCALE: 3" = 1'-0"



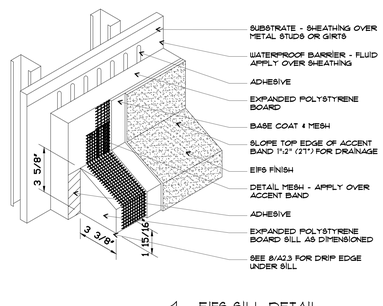
2 EIFS SADDLE FLASHING & PARAPET CAP DETAIL
SCALE: 3" = 1'-0"



4 EIFS JAMB DETAIL
SCALE: 3" = 1'-0"



3 EIFS REVEAL DETAIL
SCALE: 3" = 1'-0"



1 EIFS SILL DETAIL
SCALE: 3" = 1'-0"

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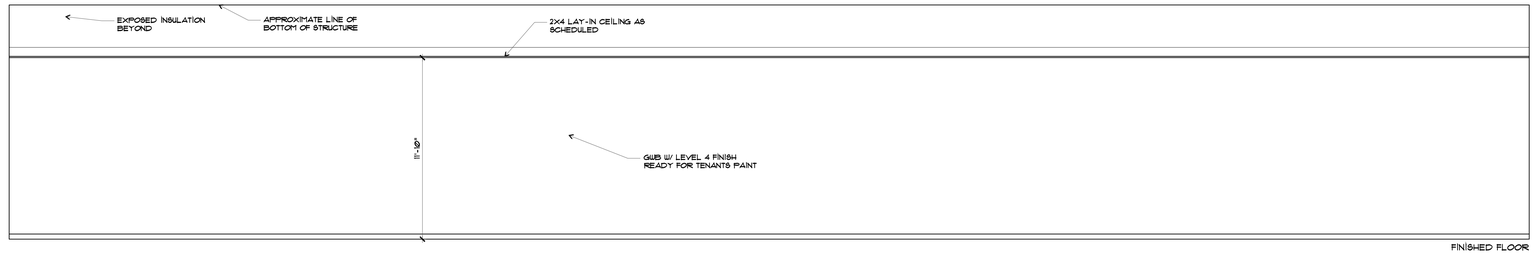
Revisions

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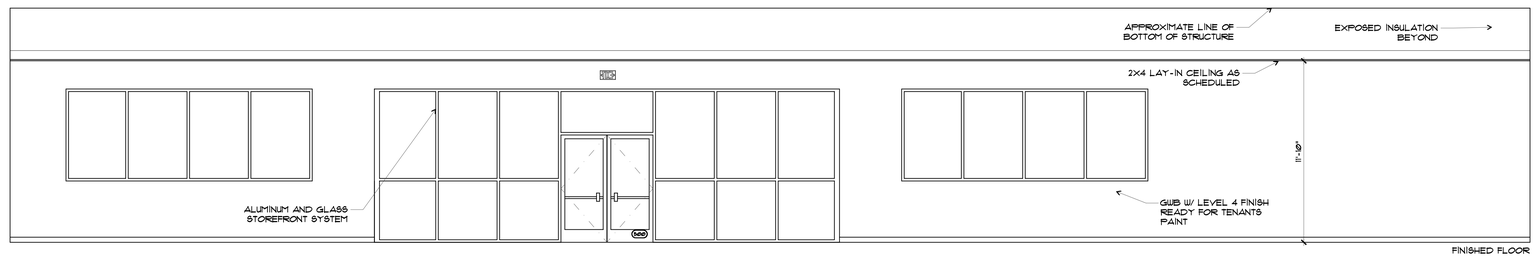
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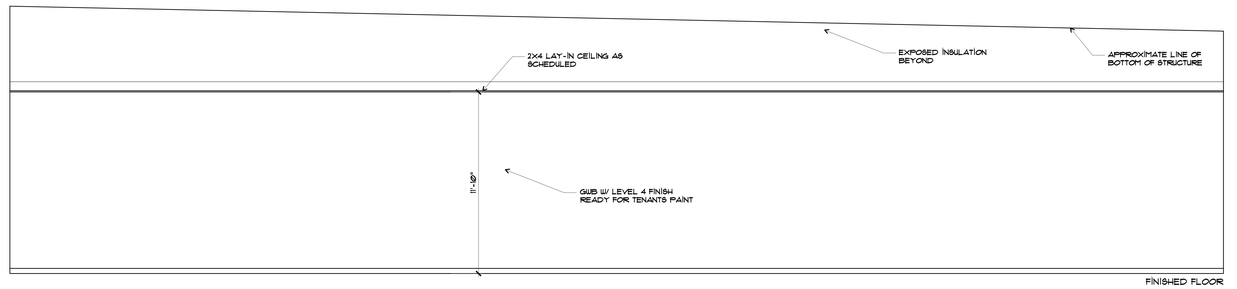
TYPICAL EIFS DETAILS



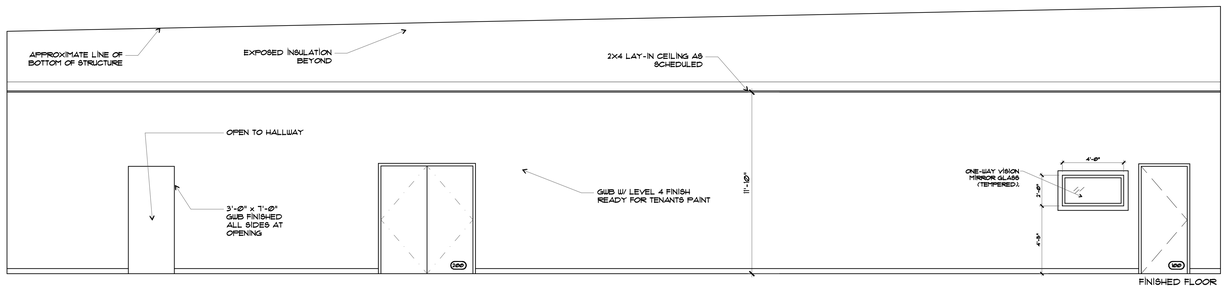
4 SALES AREA INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



3 SALES AREA INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



2 SALES AREA INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



1 SALES AREA INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

ARCHITECTURE

15225 Broadmoor Street
Overland Park, KS 66223

h|d Architecture, LLC

LICENSED ARCHITECT
GREGORY D. HIGHBARGER
001.026132
STATE OF ILLINOIS

8/15/2023

Architect - Gregory D. Highbarger
License - Illinois - 001.026132

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PERMIT

A New Retail Location For:

DOLLAR TREE

1713 W Jefferson St
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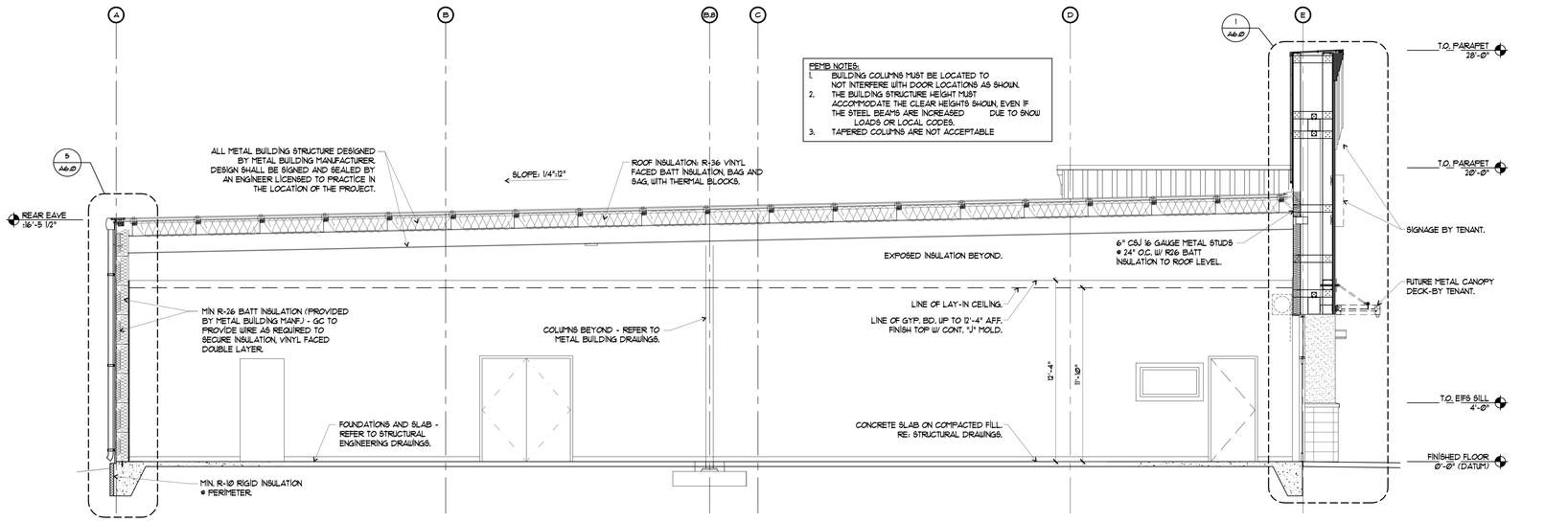
Revisions

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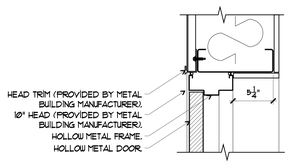
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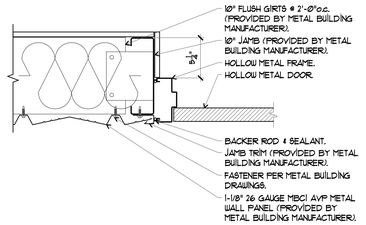
INTERIOR ELEVATIONS



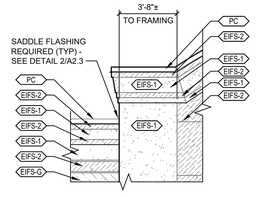
8 BUILDING SECTION
SCALE: 1/4" = 1'-0"



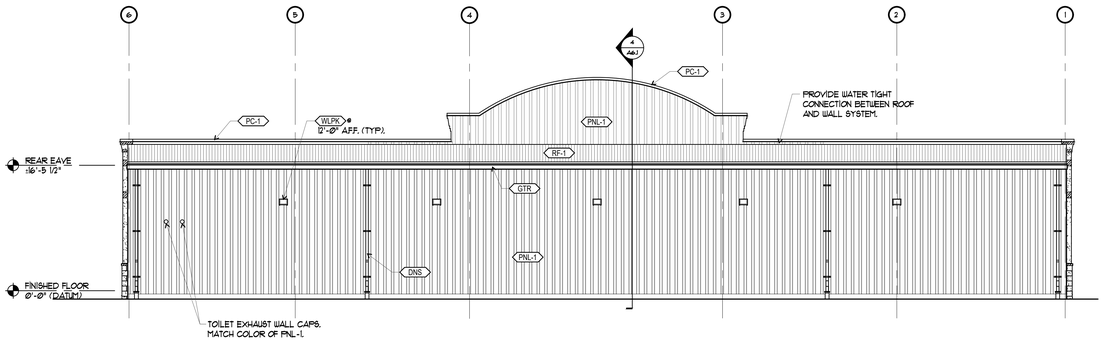
7 HEAD @ DOORS 400 & 401
SCALE: 1 1/2" = 1'-0"



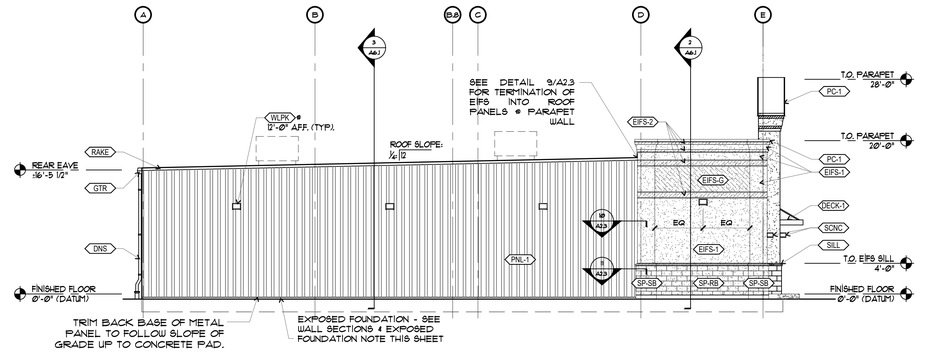
6 JAMB @ DOORS 400 & 401
SCALE: 1 1/2" = 1'-0"



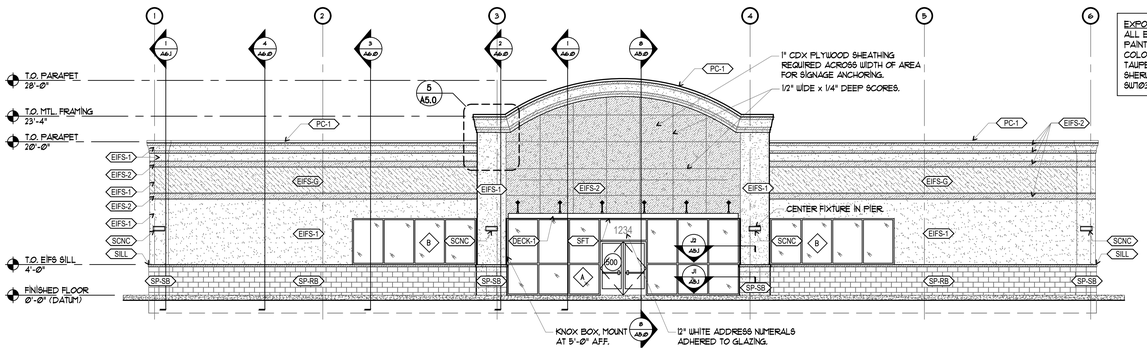
5 ELEVATION DETAIL
SCALE: 1/4" = 1'-0"



4 REAR ELEVATION
SCALE: 1/8" = 1'-0"

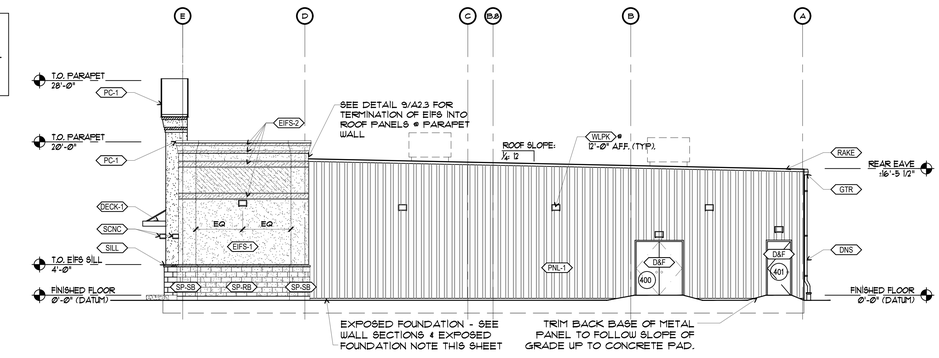


3 SIDE ELEVATION
SCALE: 1/8" = 1'-0"



EXPOSED FOUNDATION NOTE:
ALL EXPOSED FOUNDATION SHALL BE PAINTED TO MATCH ABOVE SURFACE COLOR. USE SHERWIN WILLIAMS "VIRTUAL TAUPE" - SW7039 BELOW BLOCK AND SHERWIN WILLIAMS "BALANCED BEIGE" SW7037 BELOW PANELS

2 FRONT ELEVATION
SCALE: 1/8" = 1'-0"



1 SIDE ELEVATION
SCALE: 1/8" = 1'-0"

ELEVATION LEGEND

KEYNOTE	HATCH	DESCRIPTION	COLOR
SP-RB		SPLIT FACED CMU VENEER - RUNNING BOND	SHERWIN WILLIAMS - "VIRTUAL TAUPE" - SW7039
SP-SB		SPLIT FACED CMU VENEER - STACKED BOND	SHERWIN WILLIAMS - "VIRTUAL TAUPE" - SW7039
EIFS-1		EIFS - COLOR 1 (FINISH - PRODUCT STO 310)	STO "SANDSTONE" 93860 (NA10-0052)
EIFS-2		EIFS - COLOR 2 (FINISH - PRODUCT STO 310)	STO "SMOKED PUTTY" 93240 (NA10-0053)
EIFS-G		EIFS - ACCENT COLOR (FINISH - PRODUCT STOLIT 130D)	STO SW "ENVY" SW6925 (NA10-0054)
PNL-1		1 1/8" 26 GAUGE MBCI AVP METAL WALL PANEL (PROVIDED BY METAL BUILDING MANF.)	MBCI SIGNATURE 200 - "LIGHT STONE"
RF-1		3"-24 GAUGE DOUBLE LOK GALVALUME METAL ROOF SYSTEM	SOLAR WHITE
SILL		3 3/8" x 3 5/8" EIFS SILL W/ BEVEL - SEE DETAIL 1/A2.3	STO "SMOKED PUTTY" 93240 (NA10-0053)
RAKE		SCULPTURED RAKE TRIM (PROVIDED BY METAL BUILDING MANF.)	MBCI SIGNATURE 200 - "LIGHT STONE"
PC-1	N/A	24 GAUGE KYNAR COATED METAL COPING (PROVIDED BY METAL BUILDING MANF.)	SHERWIN WILLIAMS "ENVY" SW6925 LVR 18%
DNS	N/A	GALVANIZED METAL DOWNSPOUT (SIZED & PROVIDED BY METAL BUILDING MANF.)	MBCI SIGNATURE 200 - "LIGHT STONE"
GTR	N/A	GALVANIZED METAL GUTTER (SIZED & PROVIDED BY METAL BUILDING MANF.)	MBCI SIGNATURE 200 - "LIGHT STONE"
DECK-1	N/A	3'-0" METAL DECK CANOPY - HANGER ROD SUPPORTED W/ 8" FASCIA - SUPPLIED & INSTALLED BY SIGN VENDOR - CONTRACTOR TO PROVIDE & INSTALL WALL BOLTS (SEE A6.0)	SHERWIN WILLIAMS "ENVY" SW6925 LVR 18%
SCNC		LSI LED PATRIOT WALL SCONCE @ 8'-8" A.F.F. (SEE ELECTRICAL)	BRZ - "BRONZE"
WLPK		LED EXTERIOR WALL PAK LIGHT @ 12'-0" F.F.F. (SEE ELECTRICAL)	
D&F	N/A	STEEL DOOR & HOLLOW METAL FRAME	SHERWIN WILLIAMS "BALANCED BEIGE" SW7037
XX	STOREFRONT TYPE (REFER TO SHEET A2.0)	PAINTING NOTES: CMU - (DUMPSTER ENCLOSURE) (1) COAT OF S-W LOXON BLOCK SURFACER A24W200 (OR EQUAL). (2) COATS OF S-W CONFLEX XL ELASTOMERIC HIGH BUILD COATING, A5-400 SERIES (OR EQUAL)	
XXX	DOOR NUMBER (REFER TO SHEET A2.0)	METAL - (2) COATS OF S-W METALATEX ACRYLIC SEMI-GLOSS (B42 SERIES)	
		LINTELS - PAINT STOREFRONT LINTELS PER "METAL" NOTE ABOVE WITH SHERWIN WILLIAMS "BALANCED BEIGE" SW7037 AFTER PRIMING WITH (1) COAT OF S-W PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER (B66-310 SERIES)	

GENERAL NOTES:

1. METAL PANELS, SOFFITS, GUTTERS, AND DOWNSPOUTS ARE TO BE MBCI OR EQUAL. SUBSTITUTED COLORS ARE TO MATCH PROTOTYPE STANDARDS.

2. ALL EXPOSED FOUNDATION SHALL BE PAINTED TO MATCH ABOVE SURFACE COLOR. USE SHERWIN WILLIAMS - "VIRTUAL TAUPE" - SW7039 BELOW BLOCK & SHERWIN WILLIAMS "BALANCED BEIGE" SW7037 BELOW METAL PANELS.

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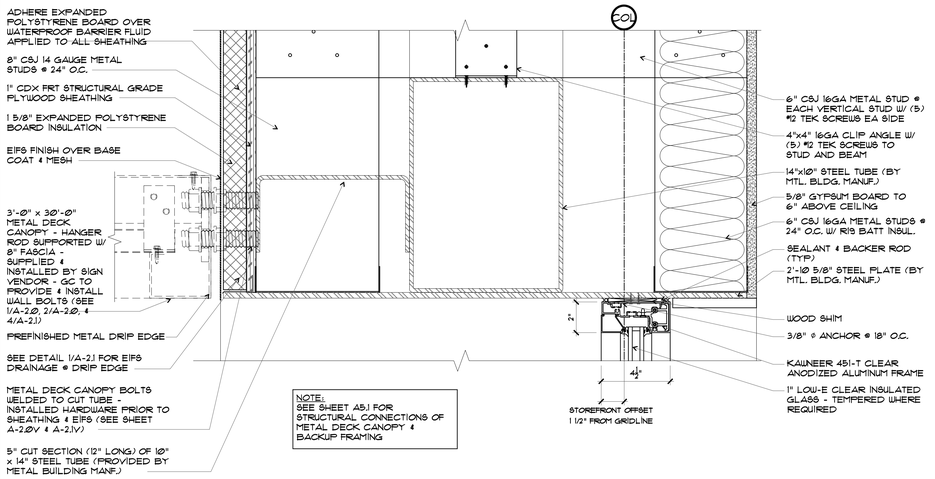
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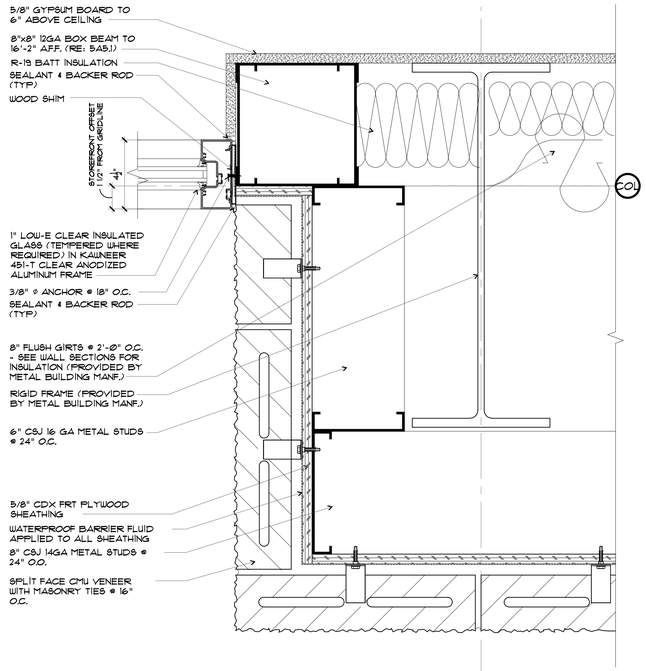
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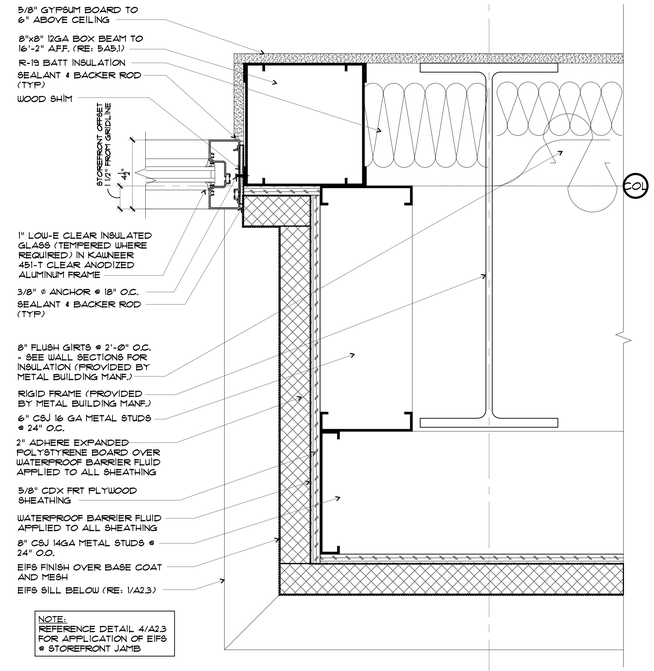
EXTERIOR ELEVATIONS & BUILDING SECTION



H1 HEAD DETAIL
SCALE: 3" = 1'-Ø"



J1 JAMB @ VENEER
SCALE: 3" = 1'-Ø"



J2 JAMB @ EIFS
SCALE: 3" = 1'-Ø"

H2 HEAD
SCALE: 3" = 1'-Ø"

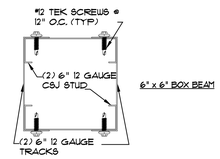
J4 SF JAMB
SCALE: 3" = 1'-Ø"

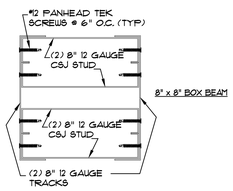
M1 SF MULLION
SCALE: 3" = 1'-Ø"

M2 SF MULLION
SCALE: 3" = 1'-Ø"

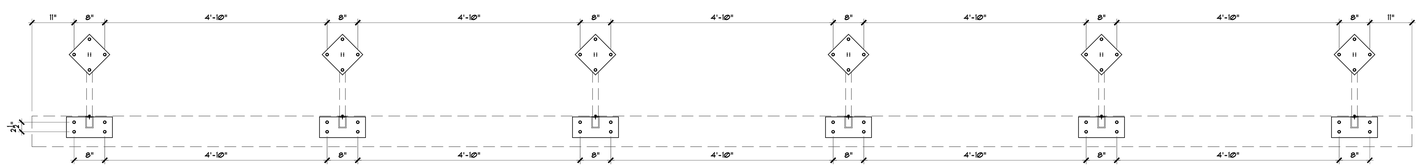
S1 SF SILL
SCALE: 3" = 1'-Ø"

T1 THRESHOLD
SCALE: 3" = 1'-Ø"





5 CANOPY BLOCKING
SCALE: 3" = 1'-Ø"



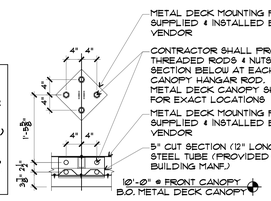
NOTE: BACK VIEW (BOLT LOCATION)

COORDINATE CANOPY DIMENSIONS WITH TENANT PROVIDED BRAND BOOK

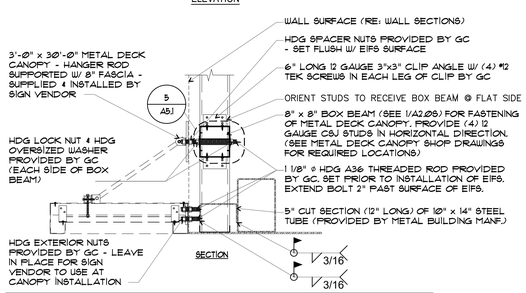
CANOPY/SIGNAGE NOTE: BOLT LOCATIONS AND DIMENSIONS ARE FOR REFERENCE ONLY. COORDINATE LOCATIONS WITH SIGNAGE VENDOR

3 CANOPY DETAIL
SCALE: 3/4" = 1'-Ø"

NOTE: ELEVATION SHOWS TYPICAL CONNECTION POINTS AT EACH HANGAR ROD ON FRONT CANOPY. CONNECTIONS AT REAR CANOPY (IF APPLICABLE) ARE SIMILAR. GC SHALL OBTAIN METAL DECK CANOPY SHOP DRAWINGS FOR EXACT LOCATION OF HANGAR RODS



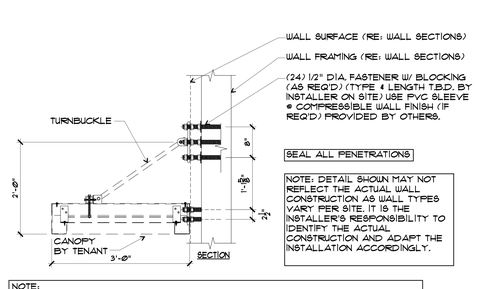
ELEVATION



SECTION

NOTE: ALL GC PROVIDED HARDWARE FOR METAL DECK CANOPY TO BE SET PRIOR TO INSTALLATION OF FACADE MATERIAL

4 CANOPY DETAIL
SCALE: 3/4" = 1'-Ø"



SECTION

SEAL ALL PENETRATIONS

NOTE: DETAIL SHOWN MAY NOT REFLECT THE ACTUAL WALL CONSTRUCTION AS WALL TYPES VARY PER SITE. IT IS THE INSTALLER'S RESPONSIBILITY TO IDENTIFY THE ACTUAL CONSTRUCTION AND ADAPT THE INSTALLATION ACCORDINGLY.

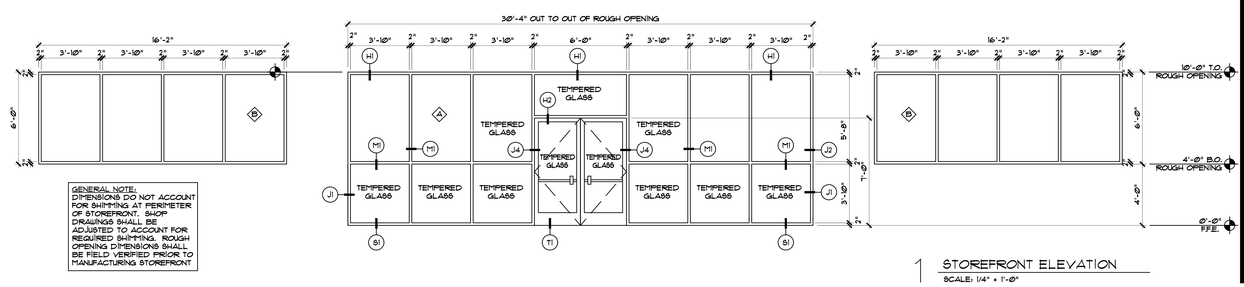
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CANOPY/SIGNAGE NOTE: BOLT LOCATIONS AND DIMENSIONS ARE FOR REFERENCE ONLY. COORDINATE LOCATIONS WITH SIGNAGE VENDOR

2 CANOPY DETAIL
SCALE: 3/4" = 1'-Ø"

STOREFRONT SCHEDULE

MRK	QTY.	MANUF.	FINISH	GLASS
				GLAZING ASSEMBLY
A	1	KAWNEER 451T OR EQUAL	CLEAR ANODIZED	1" INSULATED, 2 LAYERS - 1/4" SOLARBAN 60 w/LOW-E COATING, ARGON MIX FILLED, SHGC 0.338, VT 0.616
B	2	KAWNEER 451T OR EQUAL	CLEAR ANODIZED	1" INSULATED, 2 LAYERS - 1/4" SOLARBAN 60 w/LOW-E COATING, ARGON MIX FILLED, SHGC 0.338, VT 0.616



GENERAL NOTE: DIMENSIONS DO NOT ACCOUNT FOR SHIMMING AT PERIMETER OF STOREFRONT. SHOP DRAWINGS SHALL BE ADJUSTED TO ACCOUNT FOR REQUIRED SHIMMING. ROUGH OPENING DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO MANUFACTURING STOREFRONT

1 STOREFRONT ELEVATION
SCALE: 1/4" = 1'-Ø"

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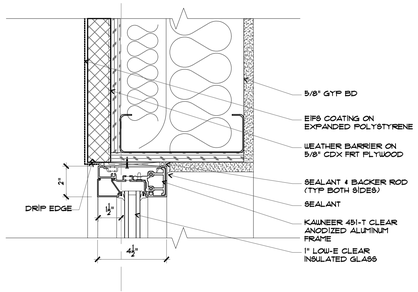
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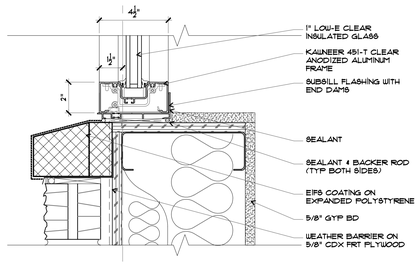
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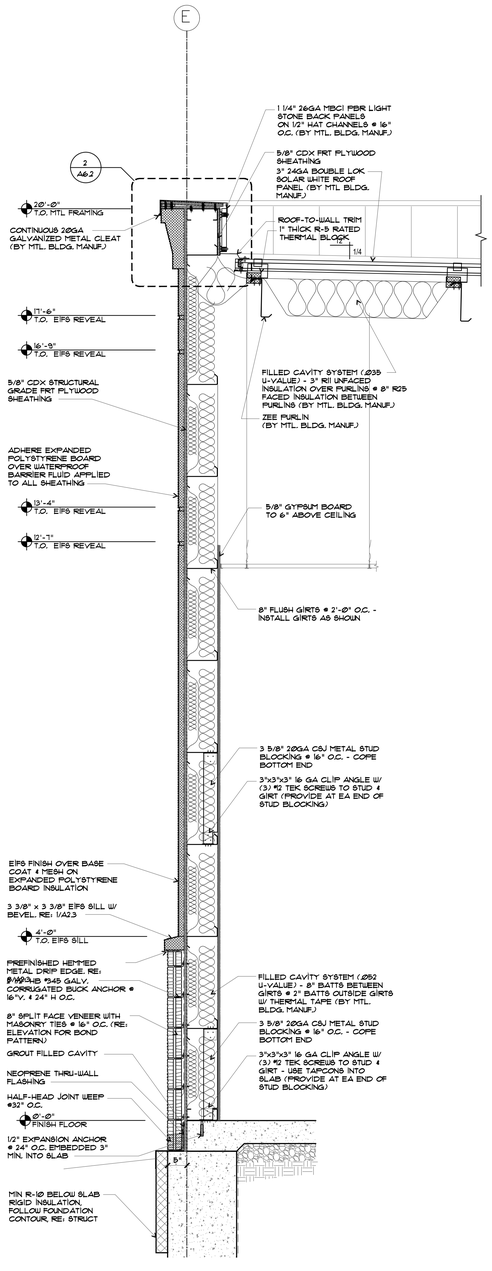
STOREFRONT ELEVATIONS AND DETAILS



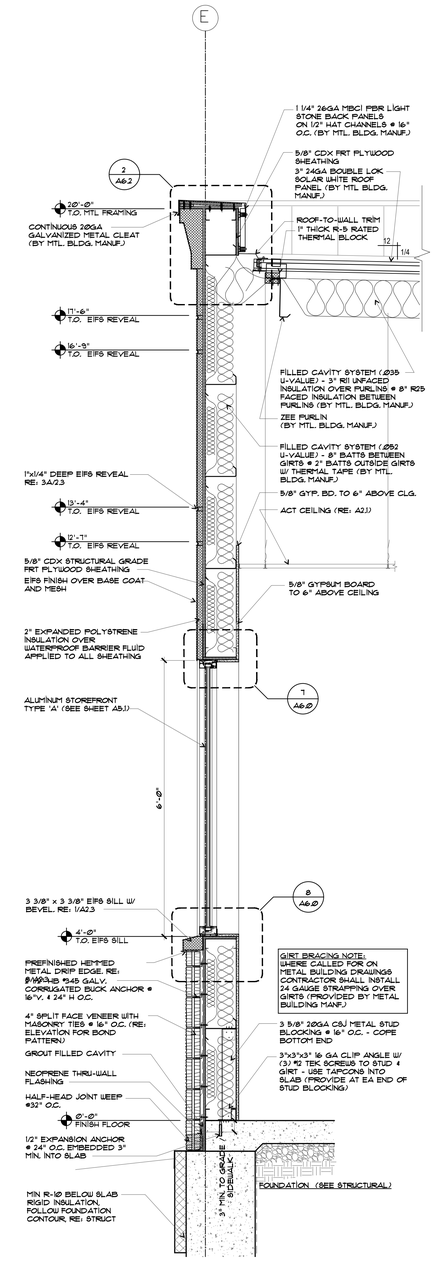
7 WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



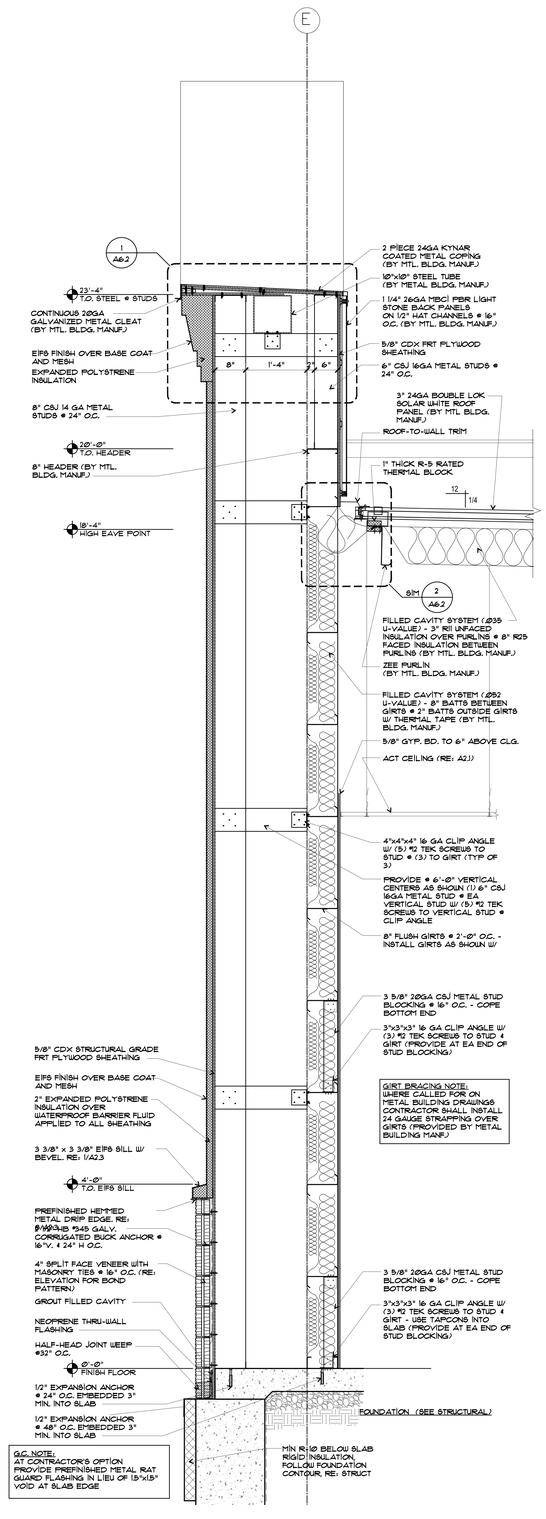
8 WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



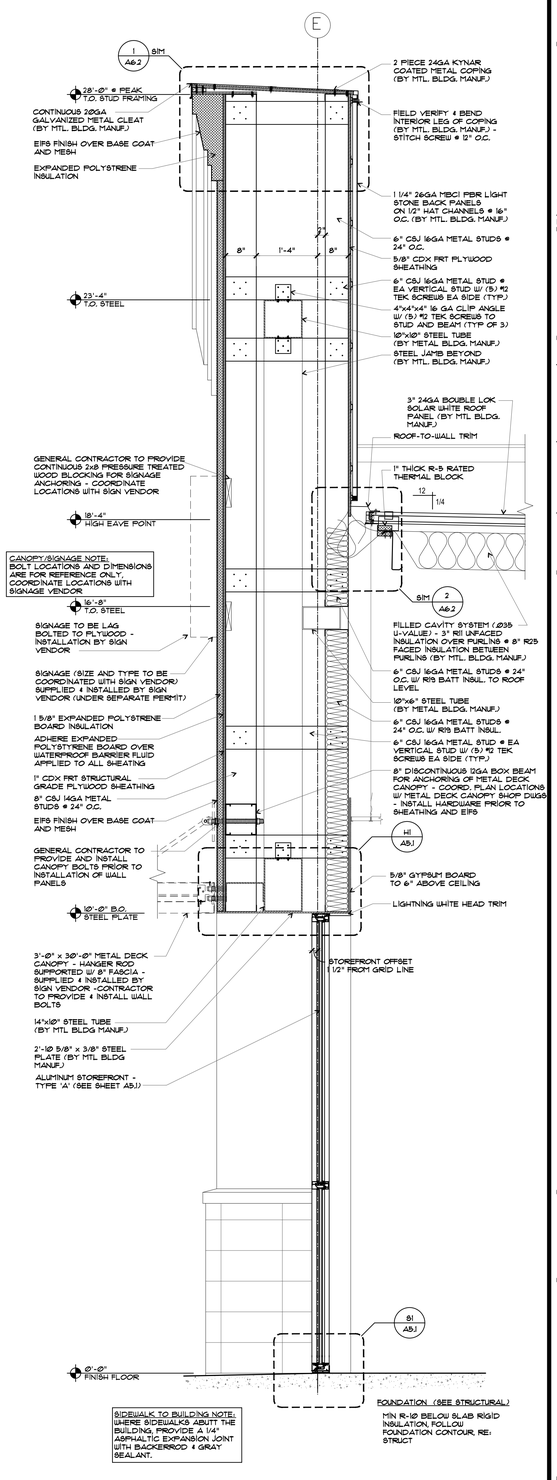
4 WALL SECTION
SCALE: 3/4" = 1'-0"



3 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"



1 WALL SECTION
SCALE: 3/4" = 1'-0"

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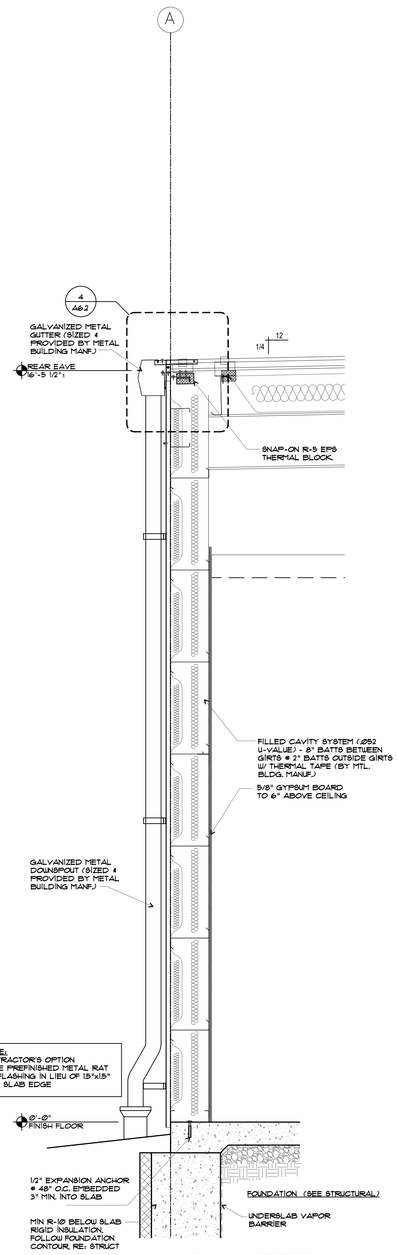
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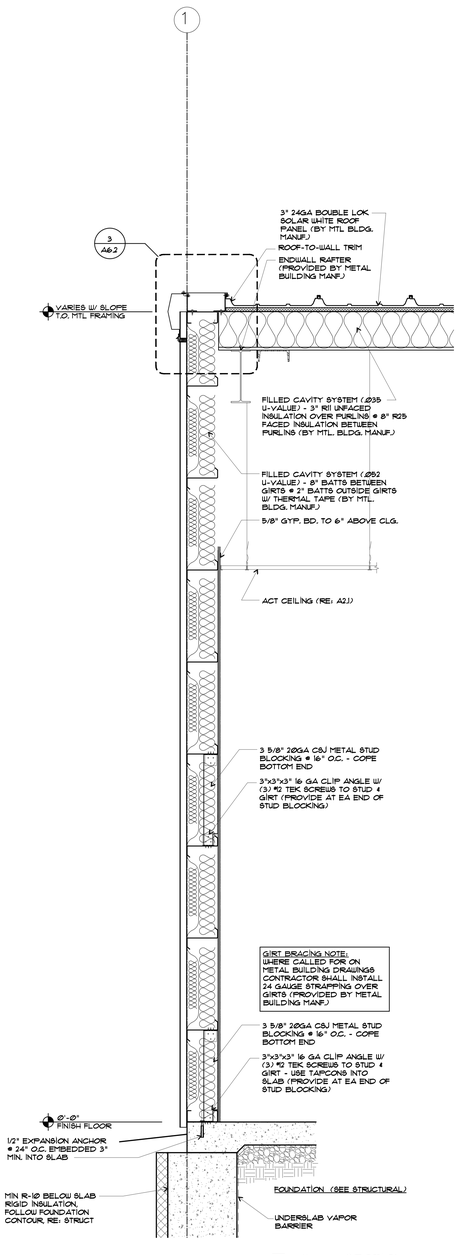
A6.0

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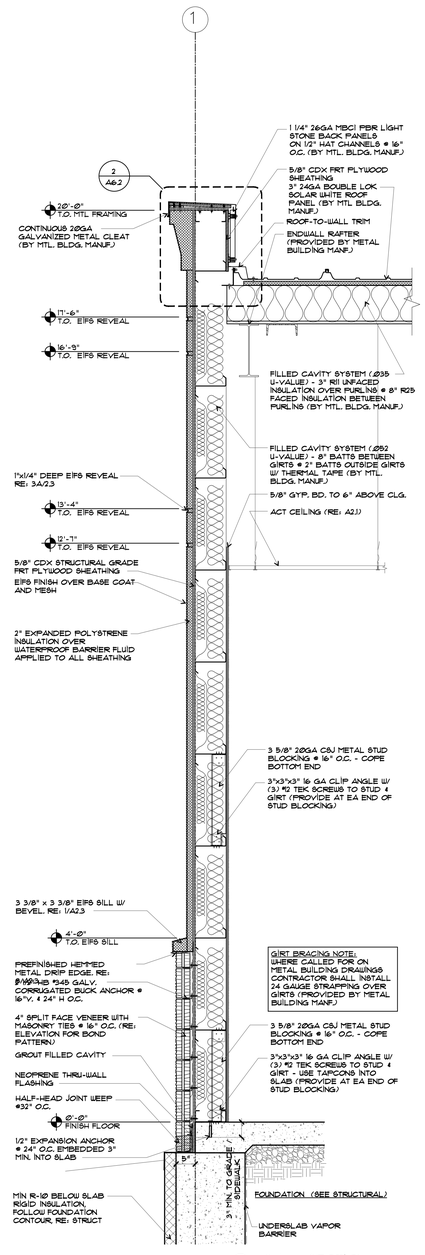
WALL SECTIONS



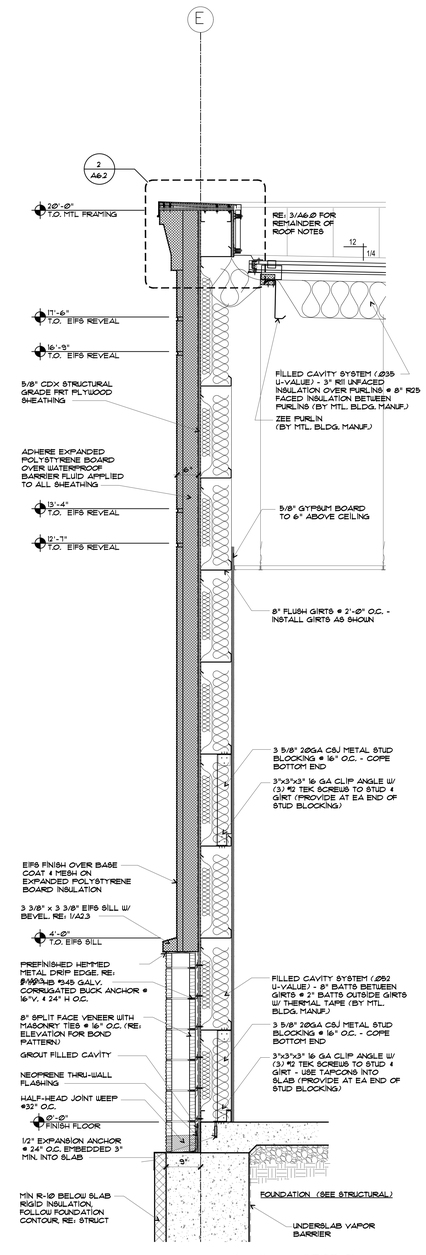
4 WALL SECTION
SCALE: 3/4" = 1'-0"



3 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"



1 WALL SECTION
SCALE: 3/4" = 1'-0"

h|d
ARCHITECTURE
15225 Broadmoor Street
Overland Park, KS 66223
h|d Architecture, LLC

LICENSED ARCHITECT
GREGORY D. HIGHBARGER
001.026132
STATE OF ILLINOIS

8/15/2023

Architect - Gregory D. Highbarger
License - Illinois - 001.026132

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CIVIL CONSULTANT

Renaissance Infrastructure Consulting
8653 Penrose Ln
Lenexa, KS, 66219
913-317-9500

STRUCTURAL CONSULTANT

Apex Engineers, Inc
1625 Locust St
Kansas City, MO 64108
816-421-3222

MEP CONSULTANT

5BY5 Engineers, LLC
1100 Main Street, Floor 4
Kansas City, MO 64105
(913) 689-9449

PERMIT

DOLLAR TREE

A New Retail Location For:
1713 W Jefferson St
Springfield, IL 62702

Date	08/15/2023
Job Number	20-003.12
Drawn By	JS
Checked By	GH
Type	3B-R-3

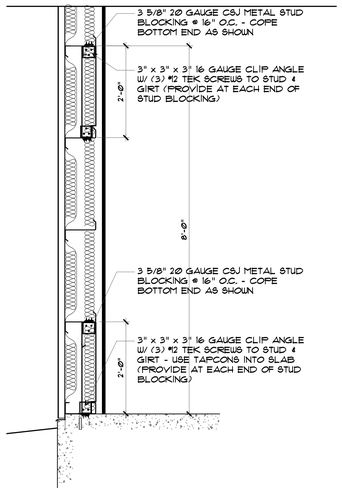
Revisions

Number	Date	Description

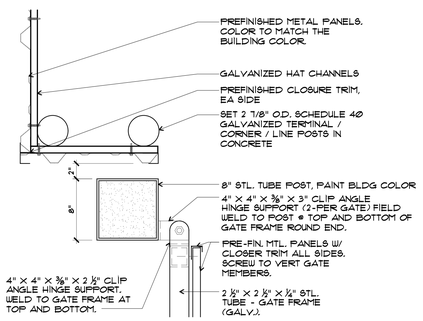
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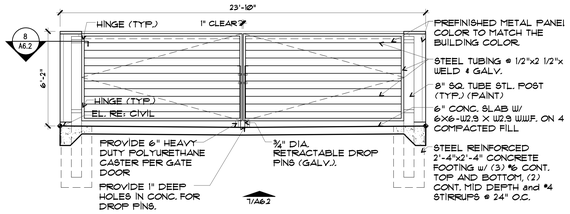
WALL SECTIONS



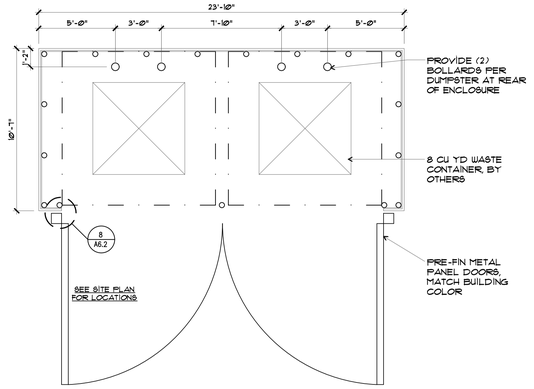
9 BLOCKING DETAIL
SCALE: 3/4" = 1'-0"



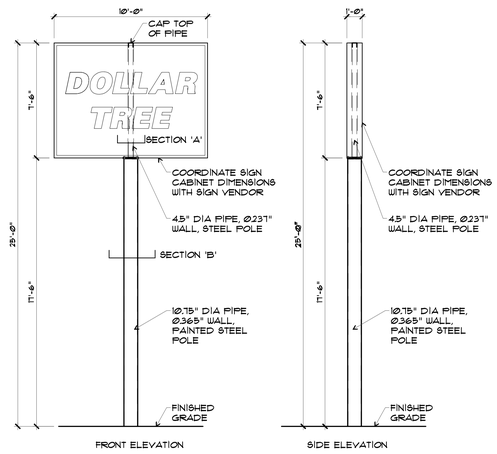
8 TRASH ENCLOSURE DETAIL
SCALE: 1 1/2" = 1'-0"



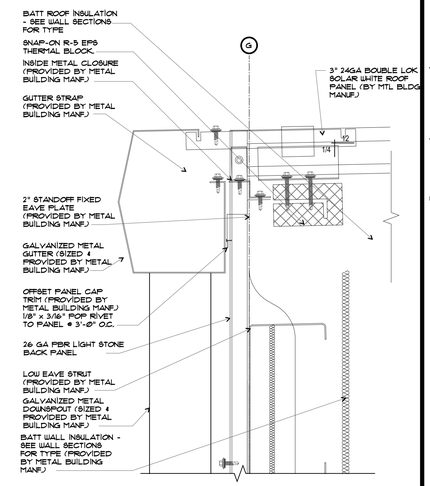
7 TRASH ENCLOSURE ELEVATION
SCALE: 1/4" = 1'-0"



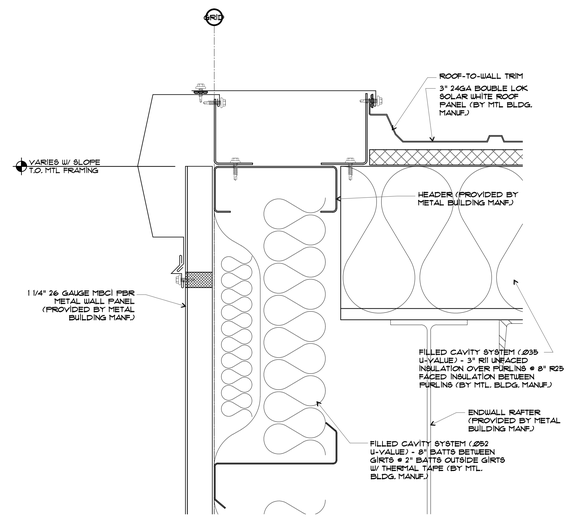
6 TRASH ENCLOSURE PLAN
SCALE: 1/4" = 1'-0"



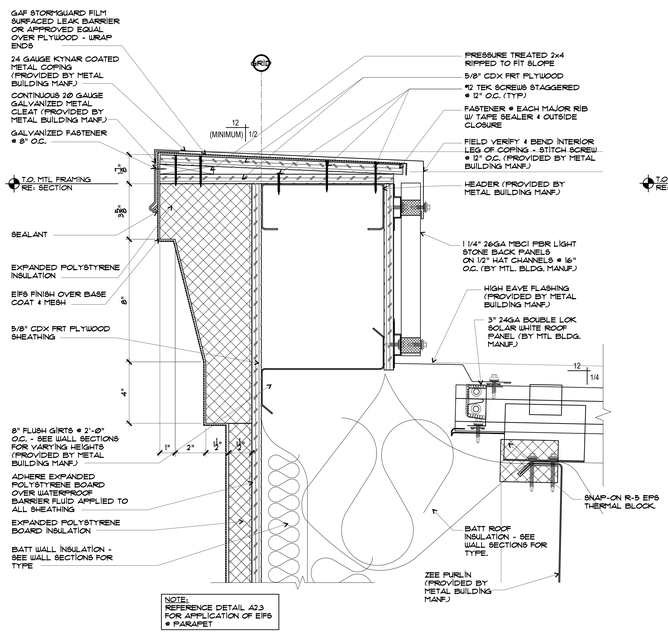
5 PYLON SIGN DETAILS
SCALE: 1/4" = 1'-0" RE: SITE PLAN FOR LOCATION



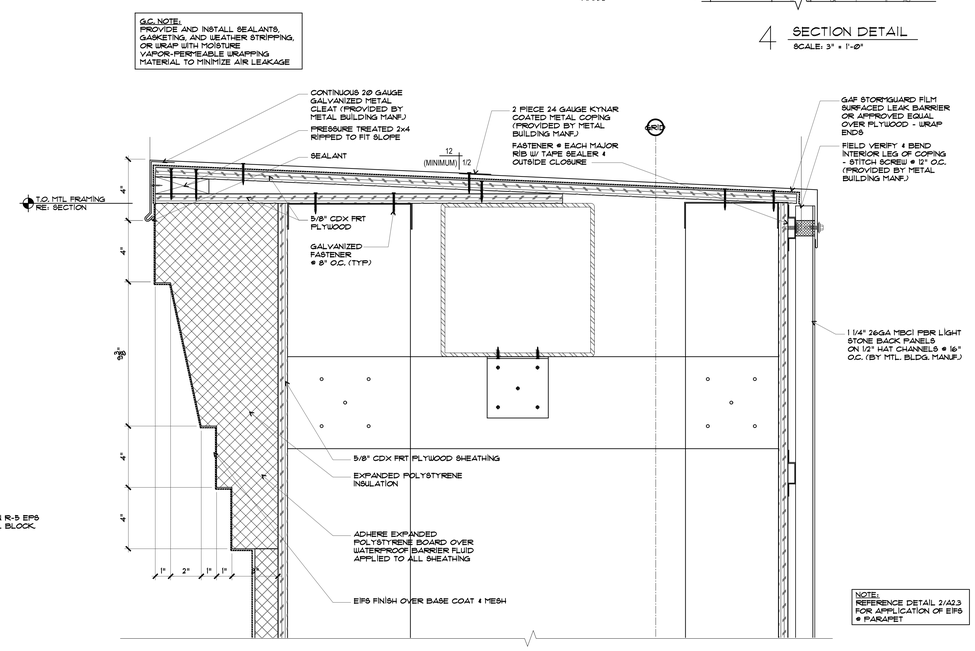
4 SECTION DETAIL
SCALE: 3" = 1'-0"



3 SECTION DETAIL
SCALE: 3" = 1'-0"



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SCALE: 3" = 1'-0"



1 SECTION DETAIL
SCALE: 3" = 1'-0"

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Revisions

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A6.2

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SECTION DETAILS
PYLON SIGN

NOTES - DEFERRED SUBMITTALS

1. THE ARCHITECT OR ENGINEER OF RECORD SHALL LIST THE DEFERRED SUBMITTALS ON THE PLANS FOR REVIEW BY THE BUILDING OFFICIAL.
2. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN THE GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING.
3. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
4. DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION AND THAT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITH A SPECIFIED PERIOD.
5. DEFERRAL OF ANY SUBMITTAL ITEMS SHALL HAVE THE PRIOR APPROVAL OF THE BUILDING OFFICIAL.
6. SUBMITTALS SHALL INCLUDE DETAILED DRAWINGS OF EACH MEMBER AND ITS CONNECTIONS ALONG WITH SUPPORTING CALCULATIONS PREPARED UNDER THE SUPERVISION, BEARING THE SEAL AND SIGNATURE, OF A LICENSED PROFESSIONAL ENGINEER IN THE PROJECT JURISDICTION.
7. DEFERRED SUBMITTAL ITEMS:

• PRE-MANUFACTURED CANOPIES AND AWNINGS
• PRE-ENGINEERED METAL BUILDINGS

NOTES - PEMB STRUCTURES

1. DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE METAL BUILDING MANUFACTURES ASSOCIATION METAL BUILDING SYSTEMS MANUAL AND IN ACCORDANCE WITH LOCAL BUILDING CODES.
2. THE METAL BUILDING DESIGNER SHALL DETERMINE AND DESIGN THE STEEL STRUCTURE FOR ALL APPLICABLE MINIMUM DESIGN LOADS AS DETERMINED BY ASCE 7 INCLUDING, BUT NOT LIMITED TO, DEAD, COLLATERAL, LIVE, SNOW, WIND, AND SEISMIC LOADS. SNOW LOADS SHALL BE INCREASED AS REQUIRED FOR SNOW DRIFT AND SLIDING LOADS. REFERENCE DESIGN INFORMATION FOR SITE CRITERIA; IT IS THE RESPONSIBILITY OF THE DESIGNER TO VERIFY DESIGN CRITERIA FOR THE DESIGN OF THE STEEL STRUCTURE.
3. THE METAL BUILDING DESIGNER SHALL DESIGN THE STRUCTURE FOR ALL MECHANICAL, ELECTRICAL, AND PLUMBING SUPERIMPOSED LOADS AS REQUIRED PER THE MEP ENGINEER'S CONTRACT DOCUMENTS. SECONDARY FRAMING FOR MEP EQUIPMENT SHALL BE DESIGNED BY THE BUILDING MANUFACTURER AND COORDINATED WITH THE EQUIPMENT MANUFACTURER.
4. LATERAL BUILDING DRIFT AT EAVE SHALL BE LIMITED TO EAVE-HEIGHT/100 UNDER LATERAL LOADS AS DETERMINED BY THE DESIGNER.
5. STEEL COLUMNS SHALL BE DESIGNED FOR ZERO MOMENT AT THE BASE.
6. STRUCTURAL FRAMING AND BRACING SHALL NOT INTERFERE WITH ANY OF THE FUNCTIONS OF THE BUILDING and Its CONTENTS.
7. FOUNDATION SHOWN FOR METAL BUILDING ARE PRELIMINARY, BASED ON ESTIMATED LOADS AND ASSUMED FRAMING CONDITIONS. PRIOR TO ANY CONSTRUCTION OR FABRICATION RELATED TO FOUNDATION WORK THE CONTRACTOR SHALL SUBMIT METAL BUILDING SHOP DRAWINGS INDICATING COMPLETE VERTICAL AND HORIZONTAL REACTIONS. AND PERTINENT DIMENSIONS AND DETAILS FOR DESIGN TEAM REVIEW. DRAWING REVISIONS MAY BE REQUIRED AND ANY CONSTRUCTION PRIOR TO THE FINAL SHOP DRAWING REVIEW/APPROVAL AND/OR DRAWING REVISIONS WILL BE AT THE CONTRACTOR'S RISK.
8. THE METAL BUILDING DESIGNER SHALL SUBMIT LAYOUT PLANS AND CALCULATIONS FOR THE STEEL STRUCTURE. THE CALCULATIONS AND DRAWINGS ARE TO BEAR A LICENSED PROFESSIONAL ENGINEER'S SEAL IN THE STATE OF WHICH THE PROJECT IS LOCATED. CALCULATIONS ARE TO SHOW LOADINGS, SPACINGS, STRESSES, CONFIGURATIONS, CONNECTIONS, GRADE OF MATERIAL, AND DEFLECTIONS.

NOTES - GENERAL

1. THESE DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
4. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
6. UNLESS OTHERWISE NOTED, FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.
7. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS SHOWN ON PLANS.
8. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS HE HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT/ ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
9. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT/ENGINEER BEFORE THE AFFECTED WORK PROCEEDS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION AND INSTALLATION. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS IN THE FIELD NECESSARY TO VERIFY OR SUPPLEMENT DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS AND HE SHALL VERIFY THAT ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS ARE COORDINATED WITH THE DIMENSIONS AND REQUIREMENTS OF THE CONTRACT DRAWINGS. REVIEW OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLETING THE WORK SUCCESSFULLY IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
11. SUBMIT PRINTS OR ELECTRONIC COPIES OF EACH SHOP DRAWINGS. REPRODUCIBLE COPIES OF CONTRACT DOCUMENTS SHALL NOT BE USED AS SHOP DRAWINGS. SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMISSION. CONTRACTOR STAMP SHOP DRAWINGS ACCEPTING RESPONSIBILITY FOR COORDINATION OF DIMENSIONS SHOWN IN THE CONTRACT DOCUMENTS, QUANTITIES AND COORDINATION WITH OTHER TRADES. DRAWINGS NOT BEARING CONTRACTOR'S STAMP MAY BE REJECTED AT THE DISCRETION OF THE ARCHITECT OR STRUCTURAL ENGINEER.
12. REVIEW AND RETURN OF SHOP DRAWINGS SHALL BE BASED ON A MINIMUM OF TEN (10) WORKING DAYS IN THE STRUCTURAL ENGINEER'S OFFICE FROM RECEIPT OF SUBMISSION TO RETURN TO THE NEXT PARTY FOR THEIR ACTION. SHOP DRAWINGS SHOULD BE SUBMITTED INCREMENTALLY AS APPROPRIATE PACKAGES ARE PREPARED TO EQUALIZE THE WORKLOAD FOR REVIEW OF THE DRAWINGS. SUBMISSION OF A LARGE VOLUME OF SHOP DRAWINGS AT ONE TIME MAY RESULT IN REVIEW TIMES WHICH WILL EXCEED THOSE NOTED ABOVE. DEFINITION OF A "LARGE VOLUME" OF SHOP DRAWINGS IS SUBJECT TO INTERPRETATION.

NOTES - COLD-FORMED METAL FRAMING

1. ALL COLD FORMED STEEL MEMBERS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE GOVERNING EDITION FOR THE SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS BY THE AISI "AMERICAN IRON AND STEEL INSTITUTE".
2. SPLICES IN AXIALLY LOADED STUDS SHALL NOT BE PERMITTED.
3. ALL CONNECTIONS SHALL BE MADE PER THE MANUFACTURER'S RECOMMENDATIONS AND ADEQUATE PER THE TYPE, SIZE, AND NUMBER OF MEMBERS BEING CONNECTED. STUDS SHALL BE PLUMBED, ALIGNED, AND SECURELY ATTACHED TO THE FLANGE OR WEBS OF BOTH UPPER AND LOWER TRACKS (PROVIDE FULL BEARING AGAINST THE INSIDE OF THE TRACK WEB, 1/16" MAX GAP).
4. ALL STUDS GALVANIZED WITH MINIMUM G60 COATING.
5. DEFLECTION CONDITIONS SHALL ALLOW FOR FRICTIONLESS, VERTICAL MOVEMENT. ALL CONNECTIONS REQUIRE A VALID ICC ES REPORT EQUIVALENT COMPLYING WITH ICC ACCEPTANCE CRITERIA (AC261).

NOTES - CONCRETE

1. ALL CONCRETE CONSTRUCTION TO CONFORM TO ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", THE GOVERNING EDITION OF THE ACI 318, AND ACI "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI 301, UNLESS NOTED OTHERWISE.
2. WATER REDUCING ADD MIXTURES ARE ALLOWED IN CONCRETE MIX DESIGNS.
3. SYNTHETIC MICRO-FIBERS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THESE DRAWINGS.
4. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT THE EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.
5. REFERENCE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETS, MASONRY, ANCHORS, BRICK LEDGE ELEVATIONS AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.
6. REFERENCE ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.
7. REFERENCE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DRAINS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC.
8. CONTACT APEX ENGINEERS, INC. IF HOUSE KEEPING PADS OR INERTIA BASES ARE REQUIRED BEYOND WHAT IS SHOWN IN THE STRUCTURAL CONTRACT DOCUMENTS.
9. ALL REINFORCING STEEL TO BE DETAILED IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES."
10. REINFORCING SHALL BE CONTINUOUS WHEREVER POSSIBLE. SPLICES AND LAPS TO CONFORM TO ACI 318. REFER TO CONCRETE REBAR SCHEDULE.
11. DOWELS IN FOOTING, WALLS, AND DRILLED PIERS MUST BE IN POSITION BEFORE PLACING CONCRETE WHENEVER POSSIBLE.
12. REFERENCE TYPICAL FOUNDATION DETAILS FOR INFORMATION ON REINFORCING REQUIREMENTS AT WALL AND SLAB OPENINGS.
13. REFERENCE TYPICAL FOUNDATION DETAILS FOR INFORMATION ON REINFORCING REQUIREMENTS AT CORNER AND TEE INTERSECTIONS.
14. PROVIDE VERTICAL CONTROL JOINTS ON ALL POURED CONCRETE WALLS AND BASEMENT WALLS. SPACE JOINTS AT 3 X WALL HEIGHT FOR WALLS LESS THAN 10 FT AND WALL HEIGHT FOR TALLER WALLS. PROVIDE ADDITIONAL JOINT WITHIN 10 FT OF CORNERS.
15. OPENINGS IN SLAB OF 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFERENCE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.

NOTES - SHALLOW FOUNDATIONS

1. CONTRACTOR SHALL BE FULLY FAMILIAR WITH ALL ASPECTS OF THE SOILS REPORT BEFORE BEGINNING CONSTRUCTION.
2. CONTRACTOR SHALL USE THE SOILS REPORT FOR SPECIFICATIONS AND DETAILS FOR PLACEMENT OF PERIMETER DRAINS, UNDER-SLAB DRAINS, AND ANY OTHER SOILS RELATED ITEMS.
3. CONTRACTOR SHALL REFER TO THE SOILS REPORT FOR ALL SOIL CONDITIONING REQUIREMENTS PRIOR TO PLACING BUILDING FOUNDATIONS.
4. ALL FOOTING EXCAVATIONS TO BE APPROVED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE.
5. ALL FOOTINGS SHALL EXTEND BELOW FROST DEPTH, REFER TO DESIGN INFORMATION

STATEMENT OF SPECIAL INSPECTION

IBC CODE REFERENCE	CONSTRUCTION TYPE	FREQUENCY CONT.	FREQUENCY PER.
1705.2	**STRUCTURAL STEEL**		
1. SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360. (**REFER TO AISC CHARTS ON THIS SHEET**)			
1705.2	**OTHER THAN STRUCTURAL STEEL**		
1. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:			
	A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVE CONSTRUCTION DOCUMENTS.		X
	B. MANUFACTURER'S CERTIFIED TEST REPORTS.		X
2. INSPECTION OF WELDING:			
	A. COLD-FORMED STEEL DECK:		
	1. FLOOR AND ROOF DECK WELDS.		X
	B. REINFORCING STEEL:		
	1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.		X
	2. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	
	3. SHEAR REINFORCEMENT.	X	
	4. OTHER REINFORCING STEEL.		X
1705.3	**REINFORCED CONCRETE**		
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.			X
2. INSPECTION OF REINFORCING STEEL WELDING:			
	A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.		X
	B. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	
	C. SHEAR REINFORCING.	X	
	D. OTHER REINFORCING STEEL.		X
3. INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR SD IS USED.		X	
4. INSPECTION OF ANCHOR INSTALLED IN HARDENED CONCRETE.			X
5. VERIFYING USE OF REQUIRED MIX DESIGN			X
6. AT THE TIME FRESH CONCRETE IS SAMPLED, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPORATURE OF THE CONCRETE.		X	
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.		X	
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.			X
9. INSPECTION OF PRESTRESSED CONCRETE:			
	A. APPLICATION OF PRESTRESSING FORCES.	X	
	B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X	
10. ERECTION OF PRECAST CONCRETE MEMBERS.			X
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORING.			X
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.			X
SPECIAL INSPECTION AGENCY TO PERFORM TESTS AT SEVEN (7) DAYS AND AT TWENTY EIGHT (28) DAYS. A STRENGTH TEST SHALL BE THE AVERAGE OF THE STRENGTHS OF AT LEAST TWO (2) 6"x12" CYLINDERS OR AT LEAST THREE (3) 4"x8" CYLINDERS MADE FROM THE SAME SAMPLE OF CONCRETE. HOLD ONE ADDITIONAL CYLINDER IN RESERVE UNTIL PROJECT IS COMPLETED. TESTING LABORATORY IS TO FURNISH ARCHITECT/ENGINEER WITH TEST RESULTS PROMPTLY.			
FREQUENCY OF TESTING IS TO BE IN ACCORDANCE WITH ACI 318:			
	A. ONCE EACH DAY A GIVEN CLASS IS PLACED, NOR LESS THAN		
	B. ONCE FOR EACH 150 CUBIC YDS OF EACH CLASS PLACED EACH DAY. NOR LESS THAN		
	C. ONCE FOR EACH 5000 SQ/FT OF SLAB WALL OR SURFACE AREA PLACED EACH DAY.		
1705.6	**SOILS**		
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.			X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.			X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.			X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.		X	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.			X

SCHEDULE - CONCRETE REBAR

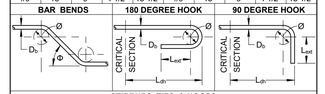
DEVELOPMENT LENGTHS - L_d

	f'c = 3000 PSI				f'c = 4000 PSI			
BAR SIZE	STD. L_d TOP	STD. L_d TOP	CLASS B TYP.	CLASS B TOP	BAR SIZE	STD. L_d TOP	STD. L_d TOP	CLASS B TYP.	CLASS B TOP
#4	22"	29"	29"	38"	#4	19"	25"	25"	33"
#5	28"	36"	37"	47"	#5	24"	31"	32"	41"
#6	33"	43"	43"	56"	#6	29"	37"	38"	49"
#7	48"	63"	63"	82"	#7	42"	54"	55"	71"
#8	55"	72"	72"	94"	#8	48"	62"	63"	81"
#9	62"	81"	81"	106"	#9	54"	70"	71"	91"

STANDARD HOOKS & BAR BENDS

	f'c = 3000 PSI				f'c = 4000 PSI			
BAR SIZE	L_{dh}	"Ø"	L_{ext} 180	L_{ext} 90	BAR SIZE	L_{dh}	"Ø"	L_{ext} 180	L_{ext} 90
#4	6"	3"	2 1/2"	6"	#4	6"	3"	2 1/2"	6"
#5	10"	3 3/4"	2 1/2"	7 1/2"	#5	9"	3 3/4"	2 1/2"	7 1/2"
#6	12"	4 1/2"	3"	9"	#6	10"	4 1/2"	3"	9"
#7	14"	5 1/4"	3 1/2"	10 1/2"	#7	12"	5 1/4"	3 1/2"	10 1/2"
#8	16"	6"	4"	12"	#8	14"	6"	4"	12"
#9	18"	9"	4 1/2"	13 1/2"	#9	15"	9"	4 1/2"	13 1/2"

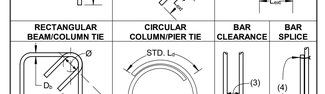
BAR BENDS | 180 DEGREE HOOK | 90 DEGREE HOOK



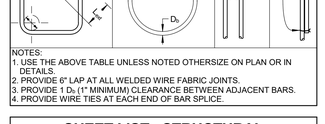
STIRRUPS, TIES, & HOOPS

BAR SIZE	Ø	L_{ext} 90	L_{ext} 135	L_{ext} 180	BAR SIZE	Ø	L_{ext} 90	L_{ext} 135	L_{ext} 180
#3	1 1/2"	3"	3"	2 1/2"	#6	4 1/2"	9"	4 1/2"	3"
#4	2"	3"	3"	2 1/2"	#7	5 1/4"	10 1/2"	5 1/4"	3 1/2"
#5	2 1/2"	3 3/4"	3 3/4"	2 1/2"	#8	6"	12"	6"	4"

90 DEGREE HOOK | 135 DEGREE HOOK | 180 DEGREE HOOK



RECTANGULAR BEAM/COLUMN TIE | CIRCULAR COLUMN/PIER TIE | BAR CLEARANCE | BAR SPLICE



NOTES:
1. USE THE ABOVE TABLE UNLESS NOTED OTHERSIZE ON PLAN OR IN DETAILS.
2. PROVIDE 6" LAP AT ALL WELDED WIRE FABRIC JOINTS.
3. PROVIDE 1 D_b (1" MINIMUM) CLEARANCE BETWEEN ADJACENT BARS.
4. PROVIDE WIRE TIES AT EACH END OF BAR SPLICE.

SHEET LIST - STRUCTURAL

SHEET NUMBER	SHEET NAME
S100	GENERAL NOTES AND SPECIFICATIONS
S200	FOUNDATION PLAN
S500	TYPICAL FOUNDATION DETAILS
S501	FOUNDATION DETAILS

DESIGN INFORMATION

BUILDING CODE:			
2012 INTERNATIONAL BUILDING CODE AS ADOPTED AND/OR AMENDED BY LOCAL BUILDING CODES			
SOILS INFORMATION:			
SOILS ENGINEER		KILO ENGINEERING	
REPORT NO.	23-1211	REPORT DATE	02.27.2023
FROST DEPTH			36"
MINIMUM PAD FOOTING DIMENSION			2' - 6"
MINIMUM CONTINUOUS FOOTING WIDTH			1' - 6"
MAXIMUM ISOLATED PAD BEARING PRESSURE			1500 psf
MAXIMUM CONTINUOUS FOOTING PRESSURE			1500 psf
WIND DESIGN INFORMATION: PEMB BY OTHERS SHALL BE DESIGNED USING THE FOLLOWING WIND DESIGN INFORMATION:			
ULTIMATE WIND SPEED (3 SECOND GUST), V			115 mph
WIND EXPOSURE CATEGORY			C
OCCUPANCY CATEGORY			II
INTERNAL PRESSURE COEFFICIENT, GCpi			+/-0.18
DIRECTIONALITY FACTOR, Kd			0.85
VELOCITY PRESSURE COEFFICIENT, Kh			0.87
TOPOGRAPHICAL FACTOR, Kzt			1.00
EDGE REGION, a			6' - 9"
VELOCITY PRESSURE, qz			25.0 psf
COMPONENTS AND CLADDING LOADS		**POSITIVE (+)**	**NEGATIVE (-)**
ROOF ZONE 1 (AREA =50 SF)		16.0 psf	28.0 psf
ROOF ZONE 2 (AREA =50 SF)		16.0 psf	37.0 psf
ROOF ZONE 3 (AREA =50 SF)		16.0 psf	45.0 psf
WALL ZONE 4 (AREA =50 SF)		26.0 psf	29.0 psf
WALL ZONE 5 (AREA =50 SF)		26.0 psf	33.0 psf
SEISMIC DESIGN SITE SPECIFIC INFORMATION:			
SEISMIC ANALYSIS PROCEDURE		EQUIVALENT LATERAL FORCE	
SPECTRAL RESPONSE COEFFICIENTS			S_s = 0.207 S_1 = 0.105
SEISMIC RISK CATEGORY			II
SITE CLASS (PER SOILS REPORT)			D
DESIGN SPECTRAL RESPONSE ACCELERATIONS		F_a = 1.60 F_v = 2.38	S_{DS} = 0.221 S_{D1} = 0.167
SEISMIC DESIGN CATEGORY			C
SNOW LOAD INFORMATION: PEMB BY OTHERS SHALL BE DESIGNED TO A GROUND SNOW LOAD OF 20 PSF.			

MATERIAL SPECIFICATIONS

STEEL MATERIAL SPECIFICATIONS

STEEL MEMBERS	MATERIAL
WIDE FLANGE SHAPES (W)	ASTM A992
CHANNELS (C), ANGLES (L)	ASTM A36
PLATES	ASTM A36
HOLLOW STRUCTURAL SHAPES (HSS)	ASTM A500, GRADE C
HIGH STRENGTH BOLTS	ASTM F3125, GRADE A325
ANCHOR BOLTS (HEX-HEAD UNO)	ASTM F1554 (55 ksi) "S1"
EPOXY ANCHOR RODS	ASTM A36
STEEL DECK, PLAIN STEEL	ASTM A1008, (33 ksi)
STEEL DECK, GALVANIZED	ASTM A653, (33 ksi)
NON-SHRINK GROUT, COL. BASES	5000 psi (28 DAY STRENGTH)

CONCRETE & REINFORCING STEEL SPECIFICATIONS

MATERIAL	SPECIFICATION
REINFORCING BARS	ASTM A615, GRADE 60
WELDED WIRE FABRIC	ASTM A1064
PORTLAND CEMENT	ASTM C 150
FLY ASH	ASTM C 618, 15% MAX
CONCRETE AGGREGATES	ASTM C 33, 3/4" MAX AGG. SIZE.
EPOXY - THREADED ROD ANCHORS	HILTI HIT-HY 200 A OR SIMPSON SET XP
EPOXY - REINFORCING BARS	HILTI HIT-HY 200 R OR SIMPSON SET XP

REBAR CONDITION	MINIMUM CONCRETE COVER
FORMED SURFACES EXPOSED TO GROUND OR WEATHER	2"
UNFORMED SURFACE IN CONTACT WITH THE GROUND	3"
WALLS AND SLABS NOT EXPOSED TO GROUND OR WEATHER	1"
INTERIOR BEAMS AND COLUMNS (TO TIES OF STIRRUPS)	1 1/2"

CONCRETE MIX DESIGN REQUIREMENTS

CONCRETE USE	WEIGHT	28 DAY f'c	CEMENT TYPE	MAX W/C RATIO	SLUMP (+/- 1")	% AIR
FOOTINGS/PIERS	NW	3500 psi	I/II	0.55	5"	6% MAX
FOUNDATION WALLS	NW	3500 psi	I/II	0.50	4"	6% +/- 1%
INT. SLAB-ON-GRADE	NW	4000 psi	I/II	0.45	5"	3% MAX
ELEVATED SLABS	NW	5000 psi	I/II	0.45	5"	1.5% +/-
EXTERIOR SLAB	NW	4000 psi	I/II	0.45	4"	6% +/- 1%

CONCRETE SLAB SPECIFICATIONS

FLOOR FLATNESS, F_F	SOV: 35 | MLV: 25
FLOOR LEVELNESS, F_L	SOV: 24 | MLV: 17

COLD FORMED STEEL MATERIAL SPECIFICATIONS

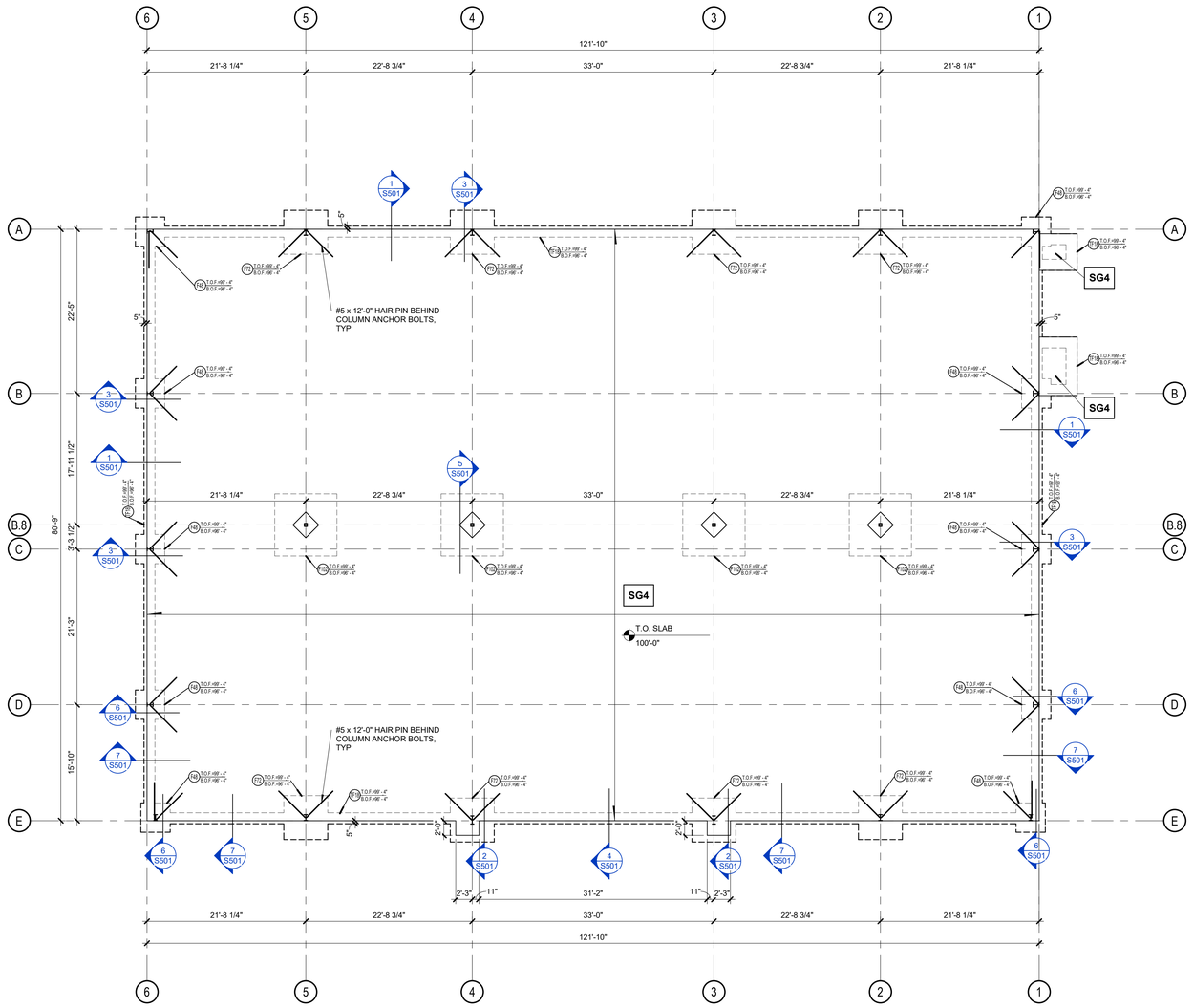
COLD FORMED MATERIAL	SPECIFICATION
18 GAUGE MEMBERS AND LIGHTER	ASTM A-653, GRADE 33
16 GAUGE MEMBERS AND HEAVIER	ASTM A-653, GRADE 50

SYMBOLS & ABBREVIATIONS

X SX.X	DETAIL ON SHEET SHEET NUMBER	DETAILS, SECTIONS, AND ELEVATIONS
T.O.W. = XXX' - XX" B.O.W. = XXX' - XX"	ELEVATION (TOP) ELEVATION (BOTTOM)	FOUNDATION WALLS AND LEDGES (SIM)
T.O.X XXX' - XX"	ELEVATION MARK	LEVELS, SPOT ELEVATIONS & PLAN ELEVATIONS
X	REVISION MARK	SHEET REVISIONS

ABV	DEFINITION	ABV	DEFINITION
ARCH	ARCHITECT	LLV	LONG LEG VERTICAL
BO	BOTTOM OF	LONG	LONGITUDINAL
BOF	BOTTOM OF FOOTING	MECH	MECHANICAL
BOS	BOTTOM OF STEEL	MEP	MECH, ELECTRICAL, PLUMBING
BOT | [B]	BOTTOM	MFR	MANUFACTURER
BOW	BOTTOM OF WALL	NA	NOT APPLICABLE
BRG	BEARING	NS	NEAR SIDE
CTR | [C]	CENTER	NTS	NOT TO SCALE
CGS	CENTER OF GRAVITY STRAND	OC	ON CENTER
CIP	CAST-IN-PLACE	OPP	OPPOSITE
CJ	CONTRACTION/CONTROL JOINT	PAF	POWDER ACTUATED FASTENER
CL	CENTERLINE	PARL	PARALLEL
CLR	CLEAR	PERP	PERPENDICULAR
COL	COLUMN	PI	POST-INSTALLED
CONT	CONTINUOUS	PT	POST-TENSION
DIA	DIAMETER	RAD	RADIUS
DT	DRAG TRUSS	REF	REFERENCE
EA	EACH	RTU	ROOF TOP UNIT
EL	ELEVATION	SIM	SIMILAR
EOD	EDGE OF DECK	SOG	SLAB ON GRADE
EOR	ENGINEER OF RECORD	STD	STANDARD
EOS	EDGE OF STEEL	[T]	TOP
EQ	EQUAL	T&B	TOP AND BOTTOM
EW	EACH WAY	TO	TOP OF
[E]	EXISTING	TOC	TOP OF CONCRETE
EXT	EXTERIOR	TOD	TOP OF DECK
FS	FAR SIDE	TOF	TOP OF FOOTING
FRT	FIRE RETARDANT TREATED	TOL	TOP OF LEDGE
FV	FIELD VERIFY	TOM	TOP OF MASONRY
GA	GAUGE	TOS	TOP OF STEEL
GC	GENERAL CONTRACTOR	TOW	TOP OF WALL
GT	GRIDER TRUSS	TR	TREATED
HAS	HEADED ANCHOR STUD	TRANS	TRANSVERSE
HORZ	HORIZONTAL	TYP	TYPICAL
INT	INTERIOR	UNO	UNLESS NOTED OTHERWISE
ISO	ISOMETRIC	VERT	VERTICAL
LLH	LONG LEG HORIZONTAL	WP	WORK POINT

APEX ENGINEERS INC.
1625 LOCUST ST.
KANSAS



FOUNDATION PLAN
1/8" = 1'-0"

PLAN NOTES - FOUNDATIONS

1. PROVIDE CONTROL JOINTS (1/4 SLAB DEPTH) AT 10'-0" OC BOTH WAYS, NOT SHOWN FOR CLARITY. DO NOT SAW CUT SLAB REINFORCING.
2. CONTRACTOR TO VERIFY ALL FOUNDATION ELEVATIONS AND STEPS PER SITE CONDITIONS.
3. TOP OF SLAB ELEVATION SHOWN IN PLAN IS FOR REFERENCE ONLY.
4. REFERENCE ARCHITECTURAL DRAWINGS FOR WALL OPENING DIMENSIONS, EXTERIOR FINISHES AND ADDITIONAL NOTES.
5. REFERENCE GENERAL NOTES SHEET FOR ADDITIONAL FOUNDATION SPECIFICATIONS.
6. CONTRACTOR TO CONTACT APEX ENGINEERS, INC AT LEAST 48 HRS IN ADVANCE OF ANY CONCRETE POUR.

PLAN NOTES - PEMB ANCHOR BOLTS

1. USE ANCHOR BOLT, SIZE, LOCATION, QUANTITY, AND PROJECTION AS SPECIFIED ON MANUFACTURER SUPPLIED LAYOUT AND DETAILS.
2. ANCHOR BOLTS TO BE CAST-IN-PLACE 3/4" DIA ASTM F1554 GRADE 36 ANCHOR BOLTS WITH MINIMUM 12" EMBED INTO FOUNDATION, NOTIFY APEX ENGINEERS, INC. IF PEMB MANUFACTURER SPECIFIES ALTERNATE DESIGN.
3. ALL ANCHOR BOLTS SHALL BE FURNISHED WITH A NUT LOCATED 2" FROM BOTTOM OF THE ANCHOR. THE NUT SHALL BE TACK WELDED TO ANCHOR BOLT AND THE THREADS BELOW THE NUT SHALL BE DAMAGED, REF TYPICAL ANCHOR BOLT DETAIL.

PLAN NOTES - PEMB COLUMN LOADS

1. ALL REACTIONS ARE ASSUMED PENDING FINAL SHOP DRAWINGS PER PEMB MANUFACTURER.
2. PEMB FINAL SHOP DRAWINGS TO BE REVIEWED BY EOR PRIOR TO CONSTRUCTION.
3. DRAWING REVISIONS MAY BE REQUIRED AND ANY CONSTRUCTION PRIOR TO FINAL SHOP DRAWING REVIEW/APPROVAL AND/OR DRAWING REVISIONS WILL BE AT CONTRACTOR'S RISK.

SCHEDULE - CONTINUOUS FOOTING

MARK	WIDTH	DEPTH	LONG BARS	TRANS BARS
TF18	1' - 6"	36"	(4) #5 CONT [(2) AT T&B]	#3 TIES AT 24" OC

SCHEDULE - PAD FOOTING

MARK	LENGTH	WIDTH	DEPTH	REINFORCING
F48	4' - 0"	4' - 0"	3' - 0"	(12) #5 EACH WAY [(6) AT T&B]
F72	6' - 0"	6' - 0"	3' - 0"	(16) #5 EACH WAY [(8) AT T&B]
F102	8' - 6"	8' - 6"	3' - 0"	(22) #5 EACH WAY [(11) AT T&B]

SCHEDULE - SLAB ON GRADE

MARK	SLAB PROPERTIES	SLAB REINFORCING	ADDITIONAL REQUIREMENTS
SG4	4" (TOTAL DEPTH) NW CONCRETE	#4 AT 18"OC EA WAY [M]	10 MIL. VAPOR BARRIER ON 4" OF 3/4" CLEAN, GRADED ROCK.

ARCHITECTURE
15225 Broadmoor Street
Overland Park, KS 66223
h|d Architecture, LLC

MATTHEW L. UMBERGER
081.008324
EXPIRES: 11/30/2024
Name - Matthew L. Umberger
License - Illinois

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Renaissance Infrastructure Consulting
8653 Penrose Ln
Lenexa, KS 66219
913-317-9500

STRUCTURAL CONSULTANT

Apex Engineers, Inc
1625 Locust St
Kansas City, MO 64108
816-421-3222

MEP CONSULTANT

5BY5 Engineers, LLC
1100 Main Street, Floor 4
Kansas City, MO 64105
(913) 689-9449

PERMIT

DOLLAR TREE

A New Retail Location for:
1713 W Jefferson St
Springfield, IL 62702

Date	08/15/2023
Job Number	20-003.12
Drawn By	APEX
Checked By	BDC
Type	38-R-3

Revisions

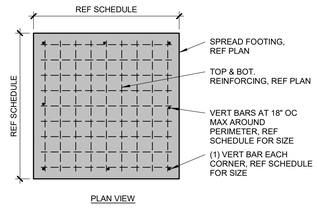
Number	Date	Description

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1625 LOCUST ST
KANSAS CITY, MO 64108
816.421.3222
www.apex-engineers.com

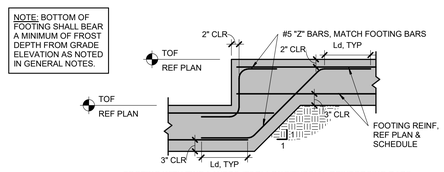
S200

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FOUNDATION PLAN

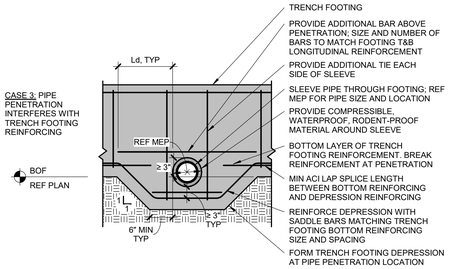


7 TYP DEEP SPREAD FOOTING VERTICAL REINFORCING
S500 | 3/4" = 1'-0"

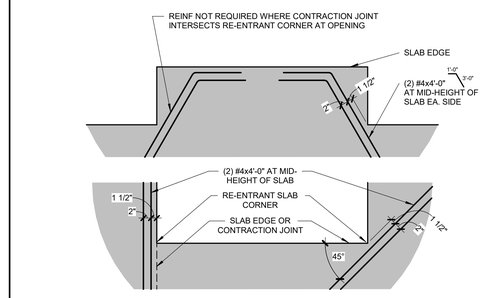


FOOTING WITH TWO LAYERS (T&B) LONGITUDINAL REINFORCING BARS

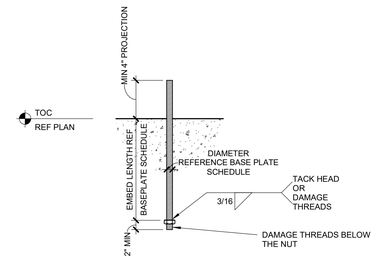
6 TYPICAL FOOTING STEP
S500 | 3/4" = 1'-0"



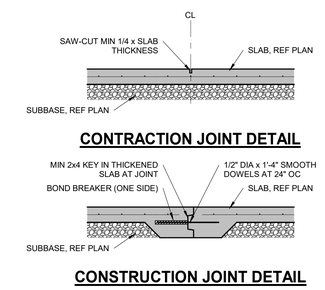
3 TRENCH FOOTING AT PIPE PENETRATION
S500 | 3/4" = 1'-0"



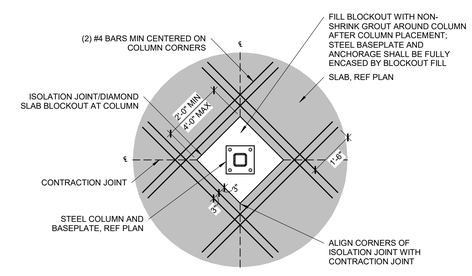
9 TYP RE-ENTRANT CORNER IN CONCRETE SLAB
S500 | 3/4" = 1'-0"



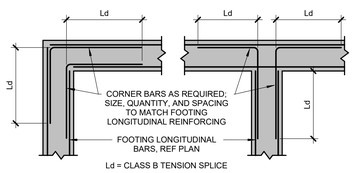
5 TYPICAL ANCHOR BOLT
S500 | 1 1/2" = 1'-0"



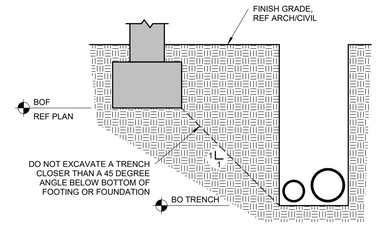
2 SLAB ON GRADE CONTROL JOINT
S500 | 3/4" = 1'-0"



8 TYPICAL STEEL COLUMN ISOLATION JOINT
S500 | 1/2" = 1'-0"



4 TYPICAL FOUNDATION CORNER DETAIL
S500 | 3/4" = 1'-0"



1 MAXIMUM SLOPE BETWEEN FOUNDATION AND TRENCH
S500 | 3/4" = 1'-0"

h|d
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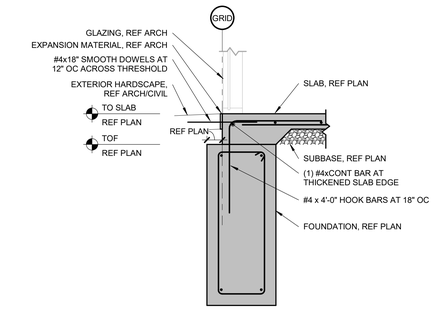
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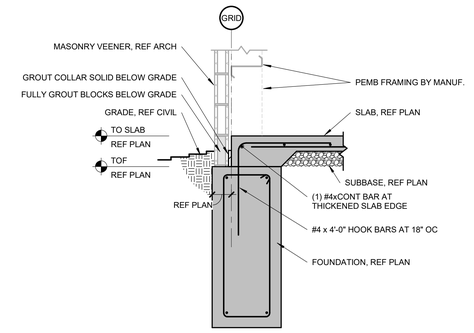
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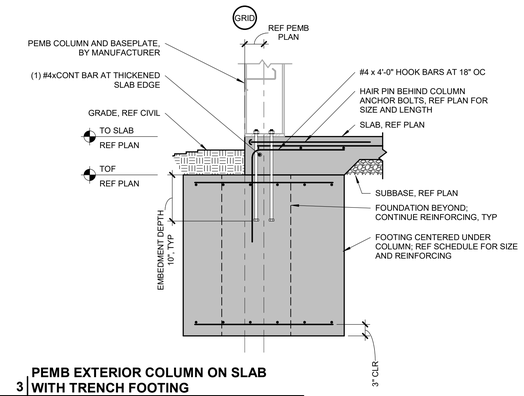
TYPICAL FOUNDATION DETAILS



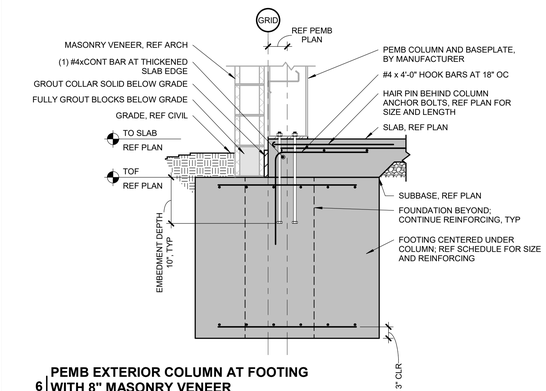
4 | S501 THRESHOLD AT TRENCH FOOTING
3/4" = 1'-0"



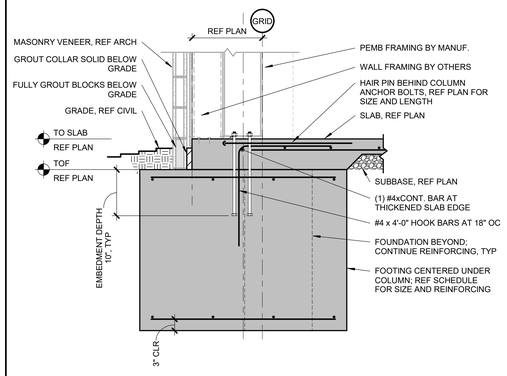
7 | S501 TYP PEMB FRAMING WITH 4" MAONSRY VEENER ON TRENCH FOOTING
3/4" = 1'-0"



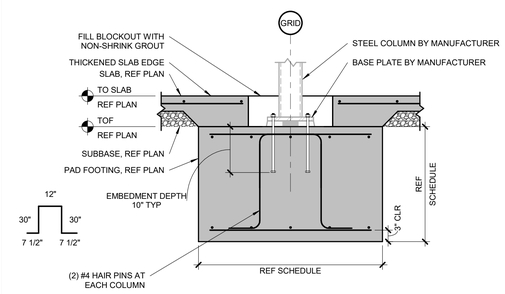
3 | S501 PEMB EXTERIOR COLUMN ON SLAB WITH TRENCH FOOTING
3/4" = 1'-0"



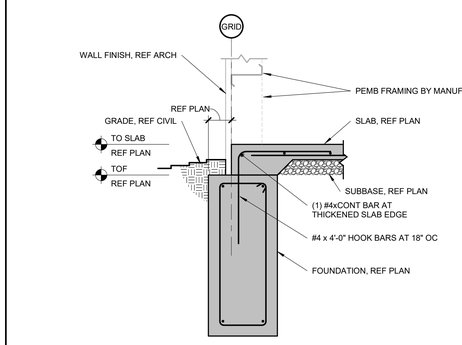
6 | S501 PEMB EXTERIOR COLUMN AT FOOTING WITH 8" MASONRY VENEER
3/4" = 1'-0"



2 | S501 CFS FRAMING ON TRENCH FOOTING
3/4" = 1'-0"



5 | S501 TYP INTERIOR SPREAD FOOTING
3/4" = 1'-0"



1 | S501 TYP PEMB FRAMING ON TRENCH FOOTING
3/4" = 1'-0"

h|d ARCHITECTURE
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081.008324
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License - Illinois

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MEP CONSULTANT

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PERMIT

DOLLAR TREE®

A New Retail Location for:
1713 W Jefferson St
Springfield, IL 62702

Date	08/15/2023
Job Number	20-003.12
Drawn By	APEX
Checked By	BDC
Type	3B-R-3

Revisions

Number	Date	Description

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816.421.3222
www.apex-engineers.com

S501

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FOUNDATION DETAILS

LINETYPES LEGEND:

- NEW
- NEW – ON ROOF
- EXISTING
- EXISTING – ON ROOF
- DEMOLITION

DUCTWORK LEGEND:

- DUCT (SINGLE LINE)
- DUCT (DOUBLE LINE)
- ROUND O/A OR S/A DOWN
- ROUND O/A OR S/A UP
- ROUND E/A OR R/A DOWN
- ROUND E/A OR R/A UP
- RECTANGULAR O/A OR S/A DOWN
- RECTANGULAR O/A OR S/A UP
- RECTANGULAR E/A OR R/A DOWN
- RECTANGULAR E/A OR R/A UP
- O/A OR S/A DIFFUSER
- E/A OR R/A GRILLE
- AIR DEVICE WITH FLEX DUCT CONNECTION
- AIR DEVICE WITH HARD DUCT CONNECTION
- FLEXIBLE CONNECTION TO EQUIPMENT
- DUCT BREAK/CONTINUATION
- MANUAL BALANCING DAMPER
- MOTOR-OPERATED DAMPER
- BACKDRAFT DAMPER
- FIRE DAMPER
- FIRE/SMOKE DAMPER
- SMOKE DAMPER

ANNOTATION LEGEND:

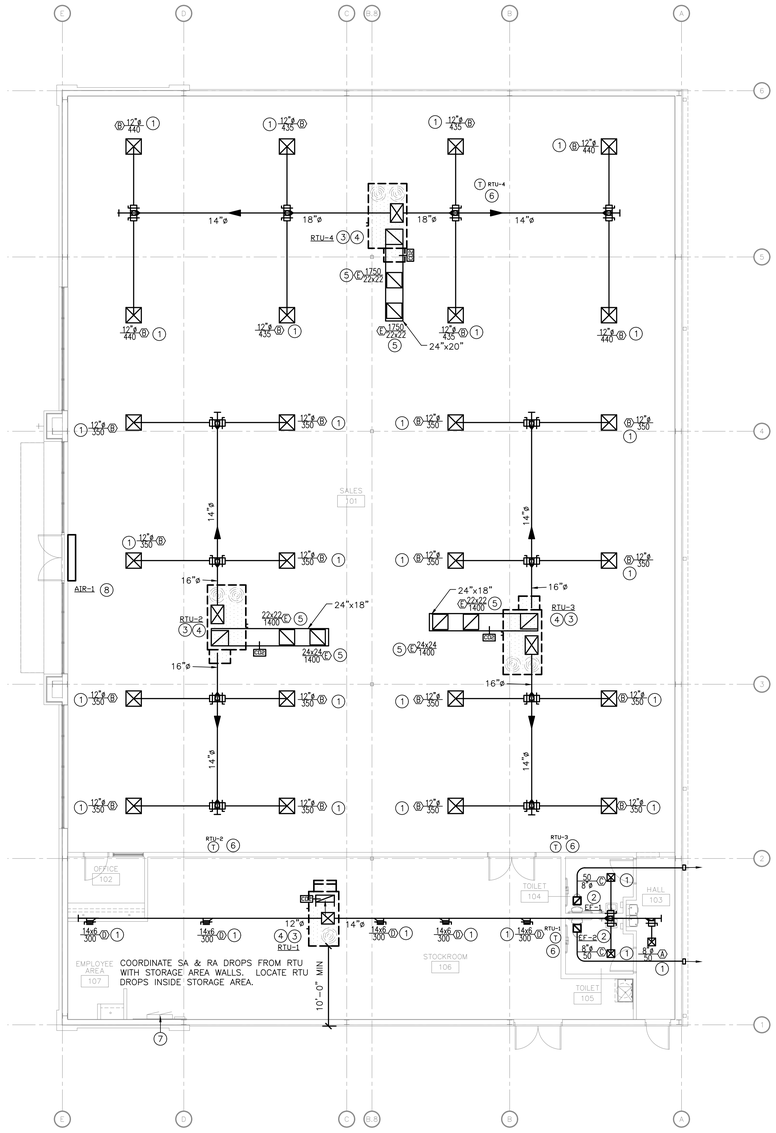
- ABC-1 EQUIPMENT / FIXTURE TAG
- PLAN NOTE
- CONNECT TO EXISTING
- AIR FLOW DIRECTION
- SIZE / AIRFLOW — G/R/D TAG / TYPE

ABBREVIATIONS LEGEND:

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
ATU	AIR TERMINAL UNIT
AV	ANALOG VIRTUAL
BAS	BUILDING AUTOMATION SYSTEM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CAV	CONSTANT AIR VOLUME
CFM	CUBIC FEET PER MINUTE
CFH	CUBIC FEET PER HOUR
CU	CONDENSING UNIT
DDC	DIRECT DIGITAL CONTROL
DN	DOWN
(E)	EXISTING
E	ELECTRONIC
E/A	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FACP	FIRE ALARM CONTROL PANEL
FC	FAIL CLOSED
FCU	FAN COIL UNIT
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FIP	FAIL IN PLACE
FO	FAIL OPEN
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FT.WG	FEET WATER GAUGE
GPM	GALLONS PER MINUTE
HC	HEATING CAPACITY
HP	HORSEPOWER
HUM	HUMIDIFIER
IFB	INTEGRAL FACE AND BYPASS
IN.WG	INCHES WATER GAUGE
LAT	LEAVING AIR TEMPERATURE
MAX	MAXIMUM
MBH	1,000 BTUH
MIN	MINIMUM
NC	NOISE CRITERIA
O/A	OUTDOOR AIR
P	PNEUMATIC
P	PRESSURE
QTY	QUANTITY
R/A	RETURN AIR
RE/A	RELIEF AIR
REFR	REFRIGERANT
RF	RETURN FAN
RG	RETURN GRILLE
RH	REHEAT
RTU	ROOFTOP UNIT
S/A	SUPPLY AIR
SC	SENSIBLE COOLING CAPACITY
SD	SUPPLY DIFFUSER
STM	STEAM
TC	TOTAL COOLING CAPACITY
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TRA	TO ROOF ABOVE
TSP	TOTAL STATIC PRESSURE
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
WPD	WATER PRESSURE DROP

MECHANICAL GENERAL NOTES:

- MECHANICAL WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. REFER TO ARCHITECTURAL CODE PLANS FOR SPECIFIC CODE REFERENCES.
- COORDINATE MECHANICAL WORK WITH ALL OTHER PROJECT TRADES (E.G. ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, ETC.).
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR REQUIRED ELECTRICAL POWER WIRING. PROVIDE ALL CONTROL WIRING AND FINAL CONTROL DEVICE (E.G. THERMOSTATS).
- COORDINATE ALL AUDIO/VISUAL ALARMS REQUIRED WITH THE ELECTRICAL CONTRACTOR.
- FABRICATE AND INSTALL DUCTWORK PER SMACNA RECOMMENDATIONS FOR THE PRESSURE CLASSIFICATIONS ENCOUNTERED.
  - ** LOW PRESSURE SUPPLY AIR: +2.0 IN.WG
  - ** RETURN AIR: –1.0 IN.WG
  - ** EXHAUST AIR (DOWNSTREAM OF FAN): +1.0 IN.WG
- PROVIDE ALL CONDENSATE DRAINS FOR EQUIPMENT THAT GENERATES CONDENSATE. COORDINATE WITH PLUMBING CONTRACTOR.
- PROVIDE DUCT WRAP INSULATION FOR ALL ROUND AND RECTANGULAR SUPPLY AIR DUCTWORK. DUCT WRAP INSULATION SHALL BE 2" THICK, MINIMUM R–5.0 FIBERGLASS WITH VAPOR BARRIER.
- PROVIDE INTERNAL LINER INSULATION FOR ALL RECTANGULAR RETURN AIR DUCTWORK. INTERNAL LINER INSULATION SHALL BE A MINIMUM OF 1" THICK AND 1½ PCF FIBERGLASS, NEOPRENE COATED, AND ADHERED WITH AN APPROVED ADHESIVE WITH 100% COVERAGE AND STICK CLIPS ON 12" CENTERS. INTERNALLY LINED INSULATION SHALL MEET BACTERIOLOGICAL STANDARD ASTM C 665. DUCT DIMENSIONS SHOWN ON THE PLANS INDICATE THE FREE AREA DIMENSIONS. INCREASE SHEET METAL DIMENSIONS AS REQUIRED TO MEET FREE AREA DIMENSIONS WITH LINER INSTALLED.
- FLEXIBLE DUCTWORK SHALL HAVE 2" THICK, MINIMUM R–5,0 INSULATION. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'–0" IN LENGTH FOR SUPPLY AIR APPLICATIONS AND 3'–0" IN LENGTH FOR RETURN AIR AND EXHAUST AIR APPLICATIONS.
- PROVIDE BALANCING DAMPERS IN DUCT TAKE–OFFS TO AIR DEVICES IN LAY–IN CEILINGS, IN THE NECKS OF AIR DEVICES IN GYP BOARD CEILINGS, AND IN THE NECKS OF SIDE WALL AIR DEVICES FOR PROPER AIR BALANCING.
- TOILET ROOM EXHAUST FANS SHALL BE AS SCHEDULED. PROVIDE A MINIMUM OF 75 CFM EXHAUST PER FLUSH FIXTURE.
- COORDINATE ALL REQUIRED ROOF PENETRATIONS WITH ROOFING CONTRACTOR TO AVOID ROOF WARRANTY CONFLICTS.
- VERIFY AVAILABLE SPACE ABOVE ALL CEILINGS PRIOR TO FABRICATION OR INSTALLATION OF ANY DUCTWORK. COORDINATE DUCT INSTALLATION WITH OTHER TRADES.
- ALL DIMENSIONS SHOWN ON PLAN ARE IN INCHES, UNLESS EXPLICITLY LABELED OTHERWISE.
- PROVIDE A COMPLETE TEST AND BALANCE BY A NEBB CERTIFIED TEST AND BALANCE AGENCY.
- PROVIDE ACCESS PANELS AND ADEQUATE CLEARANCE FOR ACCESS OF ALL EQUIPMENT, VALVES, DAMPERS AND DEVICES.
- ALL PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE FLASHED AND COUNTERFLASHED IN A WATERPROOF MANNER. (COLOR TO MATCH EXTERIOR)
- ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FORM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.
- INSTALL CONTROL DEVICES, INCLUDING THERMOSTATS AND SWITCHES 4'–0" ABOVE FINISHED FLOOR. PROVIDE THE REQUIRED DEVICES FOR ALL SYSTEM WHETHER LOCATED ON PLANS OR NOT.
- PROVIDE A 1 YEAR WARRANTY ON ALL EQUIPMENT AND A 5 YEAR WARRANTY ON ALL COMPRESSORS.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL WALL CAPS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL PAINT ALL VENT CAPS. CONFIRM COLOR WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.



1 MECHANICAL HVAC PLAN
SCALE: 1/8" = 1'-0"

MECHANICAL PLAN NOTES:

1. PROVIDE SUPPLY AIR DEVICE PER SCHEDULE WHERE SHOWN. COORDINATE FINISH WITH ARCHITECT AND OWNER. COORDINATE WITH REFLECTED CEILING PLAN.
2. PROVIDE EXHAUST FAN PER SCHEDULE. ROUTE 6"ø EXHAUST DUCT FROM EXHAUST FAN THROUGH WALL AS SHOWN. PROVIDE WALL PENETRATION AND VENT CAP EQUAL TO GREENHECK WC–6 WITH BUILT IN BIRDSCREEN AND BACKDRAFT DAMPER. LOCATE DISCHARGE AT MINIMUM OF 10'–0" FROM ANY BUILDING OPENINGS, OUTDOOR AIR INTAKES OR FIRE SEPARATIONS.
3. PROVIDE RTU, WITH CONTROLS AND ACCESSORIES FOR A FULLY FUNCTIONING SYSTEM. REFERENCE RTU SCHEDULE. LOCATE RTU WHERE SHOWN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. DISCHARGE CONDENSATE DRAIN ON ROOF.
4. EXTEND SUPPLY AND RETURN AIR DROPS FROM RTU'S TO BELOW STRUCTURE. EXTEND SUPPLY DUCT HORIZONTALLY TO FEED THE ZONE IT SERVES. PROVIDE A RETURN AIR ELBOW FULL–SIZE OF RTU OPENING FOR PLENUM RETURN.
5. PROVIDE RETURN AIR DEVICE PER SCHEDULE. COORDINATE FINISH WITH ARCHITECT AND OWNER. PROVIDE BALANCING DAMPER IN TAKE OFF ABOVE ACCESSIBLE CEILING OR AT FACE OF DEVICE IN AN INACCESSIBLE CEILING.
6. CONTRACTOR TO PROVIDE STANDARD THERMOSTAT FOR INITIAL COMMISSIONING OF EQUIPMENT. LOCATE ON CEILING GRID/WALL/OR COLUMN AS SHOWN. PROVIDE WITH 50' EXTRA CONTROL WIRING. VENSTAR WILL REPLACE WITH THEIR THERMOSTAT AT TIME OF FAMILY DOLLAR UPFIT.
7. FUTURE ENERGY MANAGEMENT SYSTEM TO BE PROVIDED AT TIME OF FAMILY DOLLAR UPFIT.
8. LOCATE NEW AIR CURTAIN ON WALL WHERE SHOWN. INSTALL ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS, MINIMUM 8'–0" AFF.

SEQUENCES OF OPERATION:

ROOFTOP UNITS RTU–1, RTU–2, RTU–3, RTU–4:
UNIT SHALL OPERATE SUBJECT TO MANUFACTURER'S STANDARD SEQUENCES AND SAFETIES VIA FACTORY–INSTALLED CONTROLLER AND CONTROL DEVICES. THE 7–DAY PROGRAMMABLE THERMOSTAT SHALL PROVIDE RTU CONTROLLER WITH HEATING/COOLING COMMAND, OCCUPIED/UNOCCUPIED SCHEDULE, AND FAN CONTROL INPUTS.

SET POINTS:
- OCCUPIED MODE: 70°F HEATING, 75°F COOLING
- UNOCCUPIED MODE: 55°F HEATING, 85°F COOLING
- ECONOMIZER MODE ENABLE: O/A TEMPERATURE < 65°F

SUPPLY FAN CONTROL:
- OCCUPIED MODE: MUTLI–STAGE FAN SHALL OPERATE CONTINUOUSLY. FAN STAGE TO BE DETERMINED BY MANUFACTURER'S STANDARD SEQUENCE.
- UNOCCUPIED MODE: FAN SHALL CYCLE WITH HEATING AND COOLING COMMANDS.

OUTDOOR AIR DAMPER:
- OCCUPIED MODE: OUTDOOR AIR DAMPER SHALL OPEN TO SCHEDULED MINIMUM OUTDOOR AIR FLOW POSITION. OUTDOOR AIR DAMPER MINIMUM POSITION SHALL BE DETERMINED DURING TESTING AND BALANCING.
- DCV OCCUPIED MODE: OUTDOOR AIR DAMPER SHALL OPEN TO SCHEDULED DCV MINIMUM OUTDOOR AIR FLOW POSITION. DCV MINIMUM OUTDOOR AIR DAMPER POSITION SHALL BE DETERMINED DURING TESTING AND BALANCING.
- UNOCCUPIED MODE: OUTDOOR AIR DAMPER SHALL BE CLOSED, UNLESS UNIT IS IN COOLING MODE AND OUTDOOR AIR TEMPERATURES ARE SUITABLE FOR ECONOMIZER OPERATION.

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LICENSED PROFESSIONAL ENGINEER
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062–072160
08/16/2023
STATE OF ILLINOIS
LICENSE #: 062–072160
THOMAS J ELLIS JR EXP. 11/30/2023

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M1.0
MECHANICAL HVAC PLAN

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ROOFTOP UNIT SCHEDULE

TAG	AREA SERVED	MANUFACTURER	SERIES	SUPPLY FAN				O/A FLOW		COOLING COIL (DX)											HEATING COIL (NATURAL GAS)						ELECTRICAL			WEIGHT	NOTES
				FAN CONTROL	S/A FLOW (CFM)	MOTOR (BHP)	ESP (IN.WG)	MIN (CFM)	DCV MIN (CFM)	NOM TONS	REFR TYPE	TC (MBH)	SC (MBH)	EAT		LAT		MIN EFF		STAGES (QTY)	NOM INPUT (CFH)	HC (MBH)	EAT (°F DB)	LAT (°F DB)	MIN EFF (%)	STAGES (QTY)	V/PH	MCA	MOCP	(LBS)	
														(°F DB)	(°F WB)	(°F DB)	(°F WB)	(EER)	(SEER)											
RTU-1	STORAGE	CARRIER	48GCE	CAV	1,750	1.4	1.00	150	150	5	R-410A	54.9	38	74.4	63.6	53.0	52.0	12.5	16.1	1	110	88.0	55.0	101.3	80	2	208/3	31	45	821	A-N
RTU-2	WEST SALES	CARRIER	48FCE	MSAV	2,800	2.4	1.00	650	350	7.5	R-410A	84.5	63	78.5	67.1	53.0	52.0	11.2	15 IEER	2	180	144.0	43.0	90.4	80	2	208/3	39	50	1,065	A-N
RTU-3	EAST SALES	CARRIER	48FCE	MSAV	2,800	2.4	1.00	650	350	7.5	R-410A	84.5	63	78.5	67.1	53.0	52.0	11.2	15 IEER	2	180	144.0	43.0	90.4	80	2	208/3	39	50	1,065	A-N
RTU-4	SOUTH SALES	CARRIER	48FCE	MSAV	3,500	3.0	1.00	775	400	10	R-410A	115.7	86	78.2	66.9	53.0	52.0	11.0	15 IEER	2	224	179.2	43.8	91.0	80	2	208/3	45	60	1,600	A-N

NOTES:
A. PROVIDE WITH CONTROLLER AND CONTROL DEVICES BY MANUFACTURER. REFER TO SEQUENCES OF OPERATION.
B. PROVIDE WITH MANUFACTURERS STANDARD 7-DAY PROGRAMMABLE THERMOSTAT.
C. PROVIDE WITH INTEGRATED ENTHALPY TYPE ECONOMIZER ASSEMBLY.
D. PROVIDE WITH MANUFACTURER'S BAROMETRIC RELIEF DAMPER.
E. PROVIDE WITH MANUFACTURER'S STANDARD INSULATED ROOF CURB WITH 1'-2" MINIMUM HEIGHT.
F. PROVIDE WITH DUCT-MOUNTED CARBON DIOXIDE SENSOR FOR DEMAND CONTROL VENTILATION (DCV) SEQUENCE.
G. PROVIDE WITH NON-POWERED WEATHER-PROOF DUPLEX RECEPTACLE.
H. PROVIDE WITH 2" THICK, MINIMUM MERV-8 FILTERS.
I. PROVIDE WITH FACTORY-MOUNTED RETURN AIR SMOKE DETECTOR.
J. PROVIDE WITH LOUVERED CONDENSER COIL GUARDS.
K. PROVIDE WITH FACTORY DISCONNECT SWITCH.
L. UNIT SIZED FOR 100°F AMBIENT CONDENSING TEMPERATURE.
M. UNIT PROVIDED WITH MULTISTAGE FAN COOLING SHALL BE PROVIDED WITH MULTISTAGE FAN CONTROL.
N. PROVIDE WITH MANUFACTURER APPROVED CURB-MOUNTED ROOF SCREEN SYSTEM. COORDINATE EXACT LOUVER TYPE AND COLOR WITH ARCHITECT AND/OR OWNER PRIOR TO PURCHASE.

AIR CURTAIN SCHEDULE

TAG	MANUFACTURER	MODEL	LOCATION	LENGTH	CFM	MOTOR HP	HEAT CAPACITY	ELECTRICAL			WEIGHT	NOTES
								V / PH	AMPS	MOCP		
AIR-1	POWERED AIRE	EVE-2-72	FRONT ENTRY	72"	1968	1/4 HP (2)	NONE	120 / 1	4.4	15	100 LBS	1-9

NOTES:
A. UNIT SHALL MEET IECC BUILDING CODE WHICH ALLOWS AMCA CERIFIED AIR CURTAIN AS AN ALTERNATE TO VESTIBULES.
B. PROVIDE WITH MAGNETIC DOOR SWITCH FOR ACTIVATION. ONE PER EACH DOOR FOR TOTAL OF TWO.
C. PROVIDE WITH 24V TRANSFORMER AND BUILT-IN TIME DELAY RELAY.
D. PROVIDE WITH REMOTE MOUNTED VARIABLE SPEED SWITCH.
E. PROVIDE WITH UNIT MOUNTED NON-FUSED DISCONNECT SWITCH.
F. PROVIDE WITH CLEANABLE WIRE MESH FILTERS.
G. FINISH SHALL BE WHITE OR AS SELECTED BY ARCHITECT.
H. MOUNT BOTTOM OF AIR CURTAIN AT 7'-2" ABOVE FINISHED FLOOR.
I. AIR CURTAIN SHALL BE BY POWERED AIRE AS SCHEDULED OR APPROVED EQUAL.

OUTSIDE AIR CALCULATIONS

TAG	OCCUPANCY CLASSIFICATION	AREA (FT^2)	OCCUPANTS (QTY)	R_p (CFM/PERSON)	MIN OCCUPANT O/A (CFM)	R_A (CFM/FT^2)	MIN AREA O/A (CFM)	MIN REQUIRED O/A (CFM)	PROVIDED
RTU-1	STORAGE	1185	0	0	0	0.12	142	142	150
RTU-2	SALES	2780	42	7.5	315	0.12	334	649	650
RTU-3	SALES	2780	42	7.5	315	0.12	334	649	650
RTU-4	SALES	3260	49	7.5	367.5	0.12	391	759	775
								REQ'D	PROVIDED
CALCULATIONS PER ASHRAE 62.1								2,198	2,225

FAN SCHEDULE

TAG	MANUFACTURER	MODEL	MOUNTING	SERVES	CFM	ESP (IN)	MOTOR POWER	VOLTAGE	NOTES
EF-1	GREENHECK	SP-B110	CEILING	RESTROOM	75	0.25	80 WATTS	120/1/60	ALL
EF-2	GREENHECK	SP-B110	CEILING	RESTROOM	75	0.25	80 WATTS	120/1/60	ALL

NOTES:
A. PROVIDE WITH MANUFACTURER'S STANDARD HANGING KIT AND CEILING MOUNT TRIM.
B. PROVIDE WITH DISCONNECT SWITCH.
C. PROVIDE WITH BACKDRAFT DAMPER.
D. PROVIDE WITH ROOF DISCHARGE CAP FOR EXHAUST THROUGH THE ROOF. COMBINE EXHAUST OF ALL EXHAUST FANS FOR A SINGLE DISCHARGE.
E. INTERLOCK FAN WITH ASSOCIATED RESTROOM LIGHT SWITCH

GRILLES, REGISTERS AND DIFFUSERS

TAG	SERVICE	MANUFACTURER	MODEL	MATERIAL	MOUNTING	FACE SIZE	MAX NC	MAX DP	NOTES
A	SUPPLY	METALAIRE	5700	ALUMINUM	LAY IN	12x12	30	0.1	A,B,C,F,G
B	SUPPLY	METALAIRE	5700	ALUMINUM	LAY IN	24x24	30	0.1	A,B,C,F
C	SUPPLY	METALAIRE	5700	ALUMINUM	SURFACE	SEE PLAN	30	0.1	A,B,C,F,G
D	SUPPLY	METALAIRE	V400D	ALUMINUM	DUCT	12x12	30	0.1	A,C,D,E,F,G
E	RETURN	METALAIRE	CC1	ALUMINUM	LAY IN	24x24	30	0.1	C,F
F	TRANSFER	METALAIRE	DG DF	ALUMINUM	DOOR	SEE PLANS	30	0.1	C,F
G	TRANSFER	METALAIRE	RH	ALUMINUM	WALL	SEE PLANS	30	0.1	C,F

NOTES:
A. NECK SIZE SHOWN ON PLANS.
B. 4 WAY THROW UNLESS INDICATED OTHERWISE ON PLANS.
C. BAKED ENAMEL FINISH, WHITE TO MATCH CEILING/WALL COLOR. VERIFY WITH ARCHITECT PRIOR TO ORDER.
D. FRONT BLADES PARALLEL TO HORIZONTAL DIMENSION. VERIFY WITH PLANS.
E. PROVIDE DOUBLE DEFLECTION BARS THAT ARE ADJUSTABLE.
F. FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
G. PROVIDE OPPOSED BLADE DAMPER THAT IS ADJUSTABLE FROM THE FACE OF THE DEVICE.

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LICENSED PROFESSIONAL ENGINEER — THOMAS J ELLIS JR — 062-072160 — 08/16/2023 — STATE OF ILLINOIS
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M2.0
MECHANICAL SCHEDULES AND DETAILS

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PLUMBING GENERAL NOTES:

- DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). PRIOR TO BID, CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION AS WELL AS COORDINATION REQUIREMENTS. COORDINATE ALL MECHANICAL WORK WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS AND OTHER TRADES PRIOR TO BID OR START OF WORK.
- PLUMBING WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. REFER TO ARCHITECTURAL CODE PLANS FOR SPECIFIC CODE REFERENCES.
- PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER PROJECT TRADES (E.G. ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND FIRE SPRINKLER).
- EXACT LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO ANY INSTALLATION OF CONNECTIONS THEREOF. ALL CONNECTIONS TO EXISTING UTILITIES (E.G. DOMESTIC WATER, SEWER, VENT, AND NATURAL GAS) SHALL BE MADE WITH APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND THE RESPECTIVE UTILITY COMPANIES.
- SANITARY WASTE, AND VENT SHALL BE SCHEDULE 40 PVC WITH SOLVENT–WELDED JOINTS.
- SANITARY WASTE, AND VENT, SHALL BE NO–HUB CAST IRON IN RETURN AIR PLENUM APPLICATIONS. PVC OR ABS PIPING CAN BE USED IN AREAS OTHER THAN RETURN AIR PLENUMS AS ALLOWED BY CODE.
- SLOPE SANITARY PIPING AS FOLLOWS: 1/4" PER FOOT FOR PIPE SIZES 2–1/2" AND SMALLER, AND 1/8" PER FOOT FOR PIPE SIZES 3" AND LARGER.
- COORDINATE ALL CONDENSATE DRAIN REQUIREMENTS WITH THE HVAC CONTRACTOR AND OTHER TRADES.
- CONDENSATE DRAIN PIPING SHALL BE TYPE M COPPER PIPING WITH WROUGHT FITTINGS AND SOLDERED JOINTS IN RETURN AIR PLENUM APPLICATIONS. PVC CAN BE USED IN AREAS OTHER THAN RETURN AIR PLENUMS AS ALLOWED BY CODE.
- SLOPE CONDENSATE DRAIN PIPING AS FOLLOWS: 1/8" PER FOOT FOR ALL PIPE SIZES.
- PROVIDE WATER SUPPLY SHUT–OFF VALVES ON EACH TOILET ROOM GROUP AND TO MISCELLANEOUS EQUIPMENT.
- PROVIDE SIZE "A" WATER HAMMER ARRESTORS ON SUPPLY TO ALL PLUMBING FIXTURES.
- PROVIDE STOP VALVES ON ALL INDIVIDUAL PLUMBING FIXTURE SUPPLIES.
- COORDINATE SELECTION OF ALL PLUMBING FIXTURES WITH ARCHITECT AND OWNER, ALL HANDICAPPED FIXTURES (WHERE REQUIRED) SHALL COMPLY WITH A.D.A. REQUIREMENTS.
- DOMESTIC WATER PIPING BELOW GRADE SHALL BE TYPE K SOFT COPPER WITH FLARED FITTINGS OR TYPE K HARD COPPER WITH WROUGHT FITTINGS AND SOLDERED JOINTS.
- DOMESTIC WATER PIPING ABOVE GRADE SHALL BE TYPE L COPPER WITH WROUGHT FITTINGS AND SOLDERED JOINTS.
- WHERE ALLOWED BY CODE, CROSS–LINKED POLYETHYLENE (PEX) PIPING MAY BE USED IN LIEU OF COPPER PIPING. ADJUST SIZING OF PIPING FOR REDUCED FREE AREA OF PEX PIPING. ALL PEX PIPE ROUTED IN RETURN AIR PLENUMS MUST MEET THE FLAME SPREAD RATING AND SMOKE DEVELOPED RATING FOR SUCH APPLICATIONS.
- INSULATE NEW DOMESTIC COLD WATER, HOT WATER, HOT WATER RECIRCULATION, INTERIOR CONDENSATE DRAIN, AND STORM PIPING WITH MINIMUM 1" FIBERGLASS INSULATION (MINIMUM R–4.0) WITH PAPER COVERING.
- ALL NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE FITTINGS. SUPPORT PIPING AT INTERVALS NOT TO EXCEED THOSE LISTED IN TABLE 415.1 OF THE INTERNATIONAL FUEL GAS CODE.
- PAINT ALL NATURAL GAS PIPING LOCATED EXTERIOR TO THE BUILDING AS REQUIRED BY CODE.
- PROVIDE A.G.A. APPROVED GAS COCKS AND DIRT LEGS AT CONNECTIONS TO ALL GAS–FIRED EQUIPMENT.
- INSTALL ALL PLUMBING EQUIPMENT, FIXTURES, VALVES, ETC. PER MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE ADDITIONAL APPURTENANCES PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- INSTALL CLEANOUTS AT EVERY END OF SANITARY PIPING RUNS, AT MINIMUM OF EVERY 100'–0" OF SANITARY PIPING, AND AT EVERY CHANGE IN DIRECTION GREATER THAN 45°. REFER TO SECTION 708 OF THE INTERNATIONAL PLUMBING CODE FOR ADDITIONAL REQUIREMENTS.
- ALL FLOOR DRAINS SHALL HAVE A 2" THROAT AND P–TRAP UNLESS NOTED OTHERWISE.
- PLUMBING CONTRACTOR SHALL INSPECT ALL PLUMBING EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.
- CONTRACTOR SHALL LABEL ALL PIPING, VALVES AND EQUIPMENT WITH MANUFACTURER STANDARD LABELING SYSTEMS. COORDINATE WITH OWNER FOR FINAL EQUIPMENT DESIGNATIONS.

PLUMBING FIXTURE SCHEDULE:

INFORMATION BELOW IS FOR GENERAL FIXTURE REQUIREMENTS ONLY. PLUMBING CONTRACTOR SHALL COORDINATE WITH OWNER AND ARCHITECT FOR EXACT FIXTURE REQUIRED FOR THE PROJECT. COORDINATE WITH OWNER FOR INFORMATION ON PROCURING FIXTURES AND ASSOCIATED COSTS. CONTRACTOR SHALL BE CLEAR AS TO WHAT FIXTURES ARE INCLUDED IN THEIR PROPOSED COSTS.

FIXTURES IN THIS SCHEDULE, OR THE APPROVED EQUIVALENT, SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER REQUIREMENTS.

ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH ALL ACCESSORIES, HANGERS, VALVES, STOPS, TAILPIECES, TRAPS, FAUCETS, STRAINERS, ETC. PROVIDE ISOLATION VALVES AT ALL PLUMBING FIXTURES AND EQUIPMENT.

REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATIONS OF ALL PLUMBING FIXTURES AND EQUIPMENT.

DF
- DRINKING FOUNTAIN (ADA ACCESSIBLE): WALL–MOUNTED, MODULAR, BARRIER FREE, STAINLESS STEEL, BI–LEVEL BOWLS AND WALL PLATE.
- TRIM: FRP BACKSPLASH AT SURROUNDING WALLS TO 8'–0" AFF. QUARTER–TURN BALL TYPE ANGLE STOP VALVE WITH RISER AND ESCUTCHEON, 1–1/4" 17–GAUGE TUBULAR CHROME PLATED BRASS ADJUSTABLE P–TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON.
- MOUNT TO MEET ADA REQUIREMENTS. REFERENCE ARCHITECTURAL DRAWINGS.

ET
- EXPANSION TANK: 150 PSIG MAXIMUM WORKING PRESSURE, 4.5–GALLON CAPACITY, 0.45 MAXIMUM ACCEPTANCE FACTOR, AND 3/4" PIPE CONNECTION. SET THE AIR CHARGE PRESSURE TO MATCH EXISTING WATER SYSTEM PRESSURE.

FCO
- FLOOR CLEANOUT: ZURN MODEL Z1454. CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, SCORIATED DURA–COATED CAST IRON TOP WITH MEMBRANE FLASHING FLANGE. INSTALL PER MANUFACTURER'S REQUIREMENTS BASED ON FLOORING TYPE USED. PROVIDE ACCESSORIES AS REQUIRED FOR PROPER INSTALLATION. COORDINATE FINISH TYPE WITH ARCHITECTURAL PLANS.

FD
- FLOOR DRAIN: CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS, AND 6" NICKEL BRONZE STRAINER WITH VANDAL–PROOF SCREWS. PROVIDE P–TRAP AND WASTE ARM SIZED AS INDICATED ON PLAN.

FPHB
- WOODFORD B65 NON FREEZE WALL HYDRANT. FULLY RECESSED BOX, CAST BRASS, INTEGRAL VACUUM BREAKER, ¾" INLET AND OUTLET

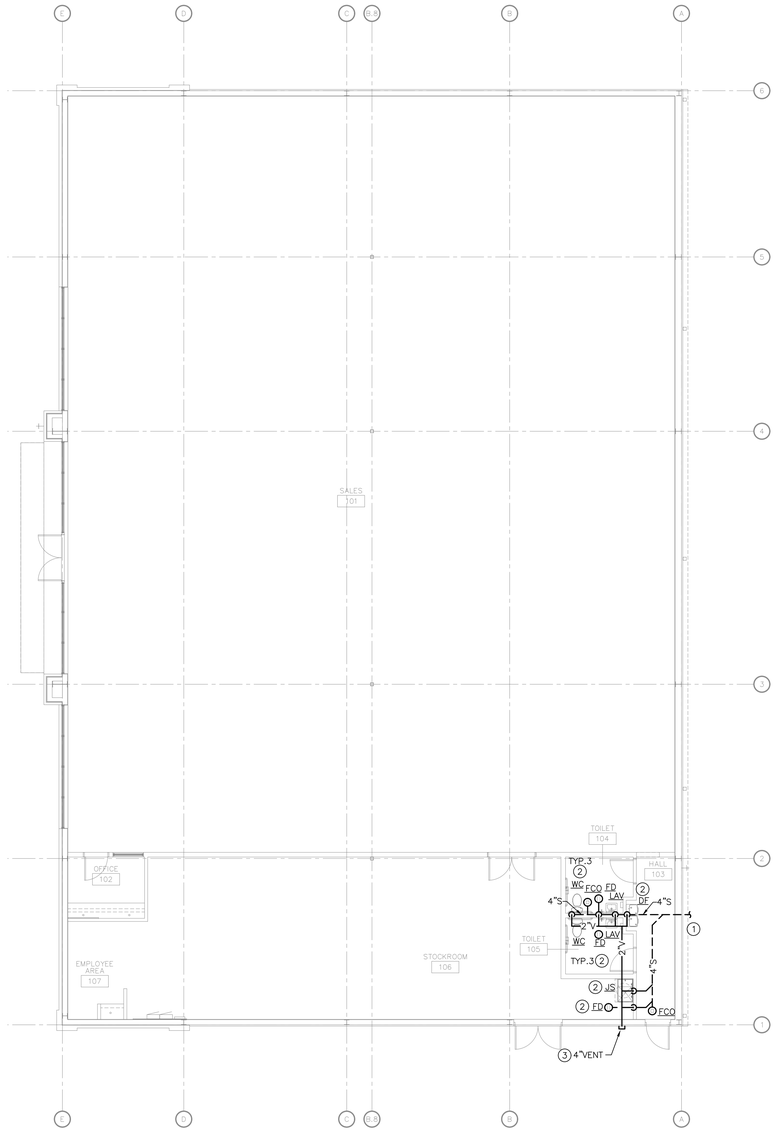
JS
- JANITOR'S SINK: 36" x 24" x 10" HIGH MOLDED FIBER BASIN WITH INTEGRAL STAINLESS STEEL DRAIN BODY.
- FAUCET: FAUCET WITH WALL BRACE, INTEGRAL VACUUM BREAKER, PAIL HOOK, AND 3/4" MALE HOSE THREADED OUTLET. SECURE FAUCET IN WALL WITH BACKBOARD.
- TRIM: FRP BACKSPLASH SURROUNDING WALLS TO 8'–0"AFF, THREE FOOT LONG REINFORCED HOSE WITH 3/4" CHROME COUPLING AND WALL HOOK, EXTRUDED VINYL BUMPER GUARD, AND 24" STAINLESS STEEL MOP HANGER.

LAV
- WALL–MOUNTED LAVATORY (ADA ACCESSIBLE): 20–1/2" X 18–1/4" RECTANGULAR WALL MOUNTED WHITE VITREOUS CHINA FIXTURE WITH FAUCET LEDGE AND FRONT OVERFLOW.
- FAUCET: FAUCET WITH 4" CENTERSET, VANDAL RESISTANT, FAUCET WITH LEVER HANDLES AND 0.5 GPM AERATOR.
- TRIM: GRID DRAIN WITH TAILPIECE, QUARTER–TURN BALL TYPE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, 1–1/4" 17–GAUGE TUBULAR CHROME PLATED BRASS ADJUSTABLE P–TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, AND INSULATION KIT FOR WATER AND WASTE PIPES.
- MOUNT TO MEET ADA REQUIREMENTS. REFERENCE ARCHITECTURAL DRAWINGS.

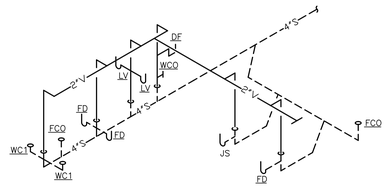
TMV
- THERMOSTATIC MIXING VALVE: SOLID BRASS BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 2.2 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.5 GPM. MAXIMUM TEMPERATURE STOP SET FOR 110 DEGREES. MOUNT BELOW THE PLUMBING FIXTURE WHERE INDICATED ON PLANS.

WC
- FLOOR–MOUNTED WATER CLOSET (ADA ACCESSIBLE): TANK TYPE WHITE VITREOUS CHINA FIXTURE WITH ELONGATED BOWL, 1.6 GALLON PER FLUSH, SIPHON FLUSH ACTION, AND CLOSE–COUPLED TANK WITH TRIP LEVER ON THE WIDE SIDE OF THE STALL.
- TRIM: WHITE OPEN–FRONT CONTOURED, SOLID PLASTIC, HEAVY–DUTY, SEAT–LESS–COVER WITH SELF–SUSTAINING HINGES AND STAINLESS STEEL BOLTS; QUARTER–TURN BALL TYPE ANGLE STOP VALVE WITH RISER AND CHROME–PLATED ESCUTCHEON.
- MOUNT TO MEET ADA REQUIREMENTS. REFERENCE ARCHITECTURAL DRAWINGS.

WH
- WATER HEATER: ELECTRIC, 10 GALLON, 1.5 kW INPUT, 8 GALLON PER HOUR RECOVERY AT 80°F TEMPERATURE RISE AND 120°F OPERATING TEMPERATURE. PROVIDE ALL WATER CONNECTIONS, VALVES, AND SPECIALS PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- ELECTRICAL REQUIREMENTS: 120–VOLT, SINGLE PHASE, 13 FULL LOAD AMPS.
- BASIS OF DESIGN: A.O. SMITH MODEL # DEL–10S.



1 PLUMBING WASTE AND VENT PLAN
SCALE: 1/8" = 1'–0"



NOTES:
1. REFERENCE PLANS AND FIXTURE CONNECTION SCHEDULE FOR SIZES.

2 WASTE AND VENT ISOMETRIC
SCALE: NTS

PLUMBING PLAN NOTES:

1. 4" SANITARY SEWER INTO BUILDING. FIELD COORDINATE ROUTING WITH LOCAL UTILITY PLANS PRIOR TO CONSTRUCTION.
2. PROVIDE PLUMBING FIXTURE, SANITARY UP TO PLUMBING FIXTURE, AND VENT PIPING AS SHOWN. REFERENCE PLUMBING FIXTURE SCHEDULE AND PLUMBING CONNECTION SCHEDULE FOR MORE INFORMATION.
3. EXTEND VENT THRU WALL. DO NOT PENETRATE ROOF. TERMINATE VENT THRU WALL 6" FROM EXTERIOR FACE OF WALL AND MINIMUM 10'–0" ABOVE AVERAGE GRADE LEVEL. VENT SHALL BE LOCATED A MINIMUM OF 10'–0" FROM ANY BUILDING OPENINGS OR FRESH AIR INTAKES. SEAL, CAULK AND PAINT TO MATCH THE EXTERIOR. COVER WITH WIRE MESH SCREEN.

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THOMAS J ELLIS JR EXP. 11/30/2023

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Checked By	GH
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Revisions

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P1.0
PLUMBING WASTE AND VENT PLAN

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LINETYPES LEGEND:

- NEW – ABOVE SLAB
- NEW – BELOW SLAB
- EXISTING – ABOVE SLAB
- EXISTING – BELOW SLAB
- DEMOLITION

PIPING LEGEND:

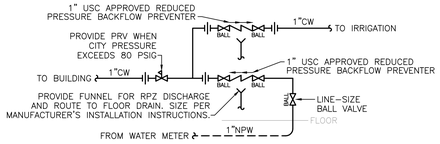
- ELBOW DOWN
- ELBOW UP
- P–TRAP
- TEE DOWN
- ELBOW UP
- SHUT–OFF VALVE (GENERIC)
- BALL VALVE
- GLOBE VALVE
- BUTTERFLY VALVE
- GATE VALVE
- CHECK VALVE
- BALANCING VALVE
- PRESSURE REDUCING VALVE
- GAS COCK
- WYE–STRAINER
- UNION
- FLANGE
- RELIEF VALVE
- AIR VENT (MANUAL / AUTOMATIC)
- FLOW DIRECTION
- PIPE BREAK / CONTINUATION
- FLOOR DRAIN
- FLOOR SINK
- FLOOR CLEANOUT
- HOSE BIBB

ANNOTATION LEGEND:

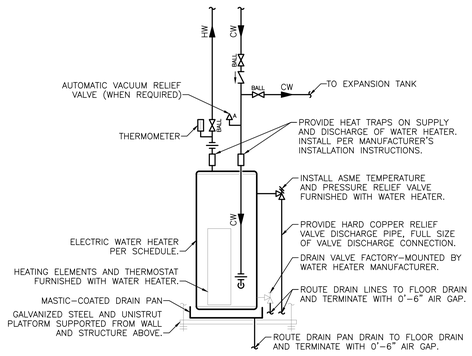
- ABC–1 EQUIPMENT / FIXTURE TAG
- PLAN NOTE
- CONNECT TO EXISTING

ABBREVIATIONS LEGEND:

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BOP	BOTTOM OF PIPE
BT	BATHTUB
CFH	CUBIC FEET PER HOUR
CO	CLEANOUT
CW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DN	DOWN
DSN	DOWNSPOUT NOZZLE
(E)	EXISTING
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWS	EYE WASH STATION
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FS	FLOOR SINK
GI	GREASE INTERCEPTOR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HWR	HOT WATER RECIRCULATION
IE	INVERT ELEVATION
IN.WG	INCHES WATER GAUGE
JS	JANITOR SINK
LI	LINT INTERCEPTOR
LS	LAUNDRY SINK
LV	LAVATORY
MAX	MAXIMUM
MB	MOP BASIN
MBH	1,000 BTUH
MIN	MINIMUM
NG	NATURAL GAS
NHB	NON–FREEZE HOSE BIBB
NRH	NON–FREEZE ROOF HYDRANT
OD	OVERFLOW ROOF DRAIN
PW	PUMPED WASTE
QTY	QUANTITY
RD	ROOF DRAIN
RP	RECIRCULATION PUMP
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
S	SANITARY WASTE
SH	SHOWER
SK	SINK
SS	SERVICE SINK
SWP	SEWAGE PUMP
TD	TRENCH DRAIN
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TMV	THERMOSTATIC MIXING VALVE
TRA	TO ROOF ABOVE
TSP	TOTAL STATIC PRESSURE
UR	URINAL
V	VENT
WC	WATER CLOSET
WH	WATER HEATER
WCO	WALL CLEANOUT
WPD	WATER PRESSURE DROP



2 WATER SERVICE ENTRANCE DETAIL
SCALE: NTS



NOTES:

- STRUCTURE AND PLATFORM SHALL BE DESIGNED TO HOLD THE MAXIMUM WEIGHT OF THE WATER HEATER. CONFIRM CAPACITY OF SHELF WITH MANUFACTURER PRIOR TO INSTALLATION.

3 WATER HEATER DETAIL
SCALE: NTS

FIXTURE CONNECTION SCHEDULE

FIXTURE	WASTE	VENT	COLD	HOT	NOTES
DRINKING FOUNTAIN	2"	1-1/2"	1/2"		
LAVATORY - PUBLIC	2"	1-1/2"	1/2"	1/2"	TMV
JANITOR'S SINK	3"	1-1/2"	1/2"	1/2"	VB
WATER CLOSET - TANK	4"	2"	1/2"	-	
FLOOR DRAIN	2"	2"	-	-	
HOSE BIBS	-	-	1/2"		VB

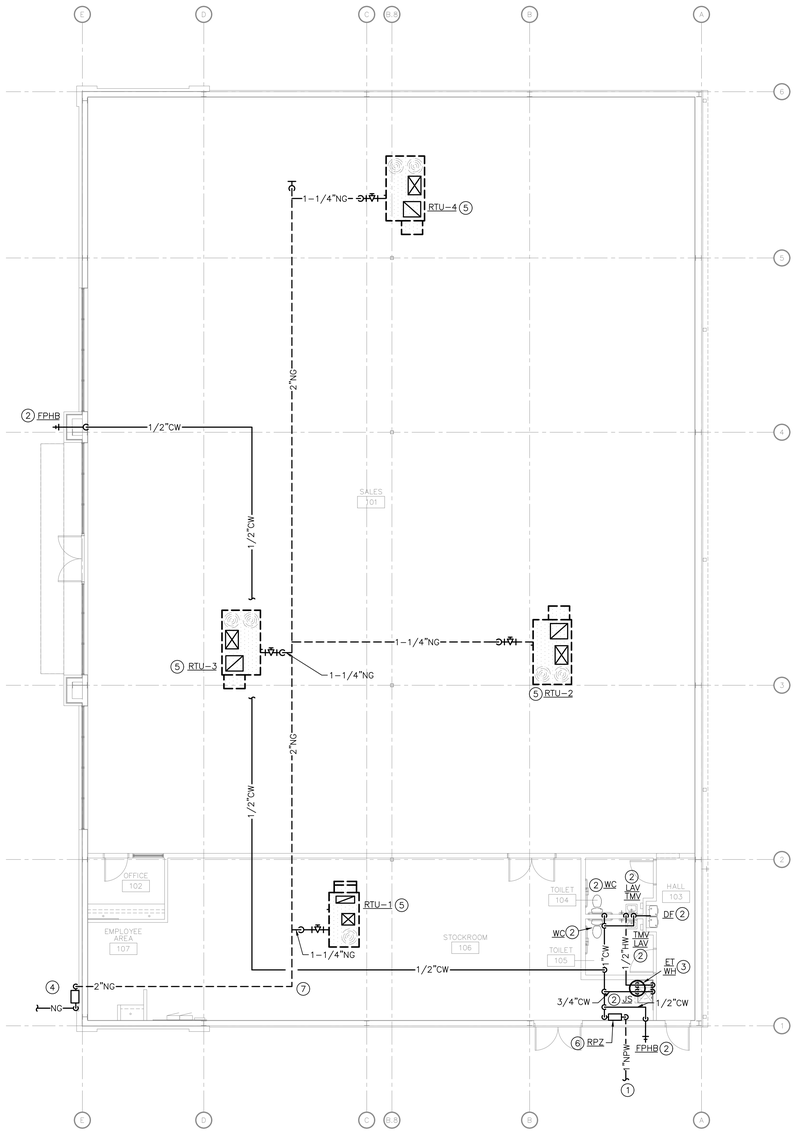
NOTES:
RP - REDUCED PRESSURE PRINCIIPLE BACKFLOW PREVENTION ASSEMBLY, LINE SIZED, CONFORMING TO ASSE 1013.
DCV - DOUBLE CHECK VALVE ASSEMBLY, LINE SIZED, CONFORMING TO ASSE 1015
DCVB - DOUBLE CHECK VALVE ASSEMBLY, LINE SIZED, CONFORMING TO ASSE 1022
VB - ATMOS TYPE VACUUM BREAKER CONFORMING TO ASSE 1020
TMV - POINT OF USE TYPE THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070
AG - AIR GAP FITTING AS PROVIDED BY MANUFACTURER
TMVS - SCALD PROTECTION SHOWER/TUB VALVE, CONFORMING TO ASSE 1016

INSTALL BACKFLOW PREVENTION DEVISES ON EQUIPMENT AND FIXTURES PER LOCAL WATER COMPANY REQUIREMENTS.
ALL BACKFLOW PREVENTERS SHALL BE IN AN ACCESSIBLE LOCATION FOR PERIODIC INSPECTION AND TESTING.

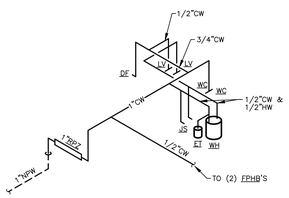
NATURAL GAS LOAD SCHEDULE

EQUIPMENT TAG	QTY	DESCRIPTION	CFH INPUT (EACH)	TOTAL CFH
RTU-1	1	ROOFTOP UNIT	115	115
RTU-2	1	ROOFTOP UNIT	180	180
RTU-3	1	ROOFTOP UNIT	180	180
RTU-4	1	ROOFTOP UNIT	224	224
			SYSTEM TOTAL =	699

NOTES:
A. METER DISCHARGE PRESSURE: 11 IN.WG.
B. TOTAL DEVELOPED LENGTH: 115 FT.
C. DESIGN NATURAL GAS PIPING SYSTEM PRESSURE DROP: 0.5 IN.WG
D. INLET PRESSURE FOR ALL GAS-FIRED EQUIPMENT: 7 TO 11 IN.WG.



1 PLUMBING WATER AND GAS PLAN
SCALE: 1/8" = 1'–0"



2 DOMESTIC WATER ISOMETRIC
SCALE: NTS

PLUMBING GENERAL NOTES:

- SEE SHEET P1.0 FOR PLUMBING GENERAL NOTES.

PLUMBING PLAN NOTES

1. NEW 1" DOMESTIC WATER SERVICE ENTRANCE. REFER TO DETAIL 1 AND TO CIVIL PLANS FOR CONTINUATION OUTSIDE OF BUILDING. SEE CIVIL PLANS FOR SEPARATE IRRIGATION WATER SERVICE NOT TO EXTEND INTO BUILDING.
2. PROVIDE PLUMBING FIXTURE AND WATER SUPPLY TO PLUMBING FIXTURE AS SHOWN. REFER TO PLUMBING FIXTURE SCHEDULE AND PLUMBING FIXTURE CONNECTION SCHEDULE ON SHEET P1.0
3. PROVIDE WATER HEATER ABOVE JANITORS SINK. OFFSET ON PLANS FOR CLARITY. REFERENCE DETAIL 2 ON P1.1 FOR MORE INFORMATION. INSTALL PER MANUFACTURER'S REQUIREMENTS.
4. PROVIDE NATURAL GAS SERVICE WHERE SHOWN. SIZE SERVICE FOR 11" W.C. WITH 11S' DEVELOPED LENGTH AT A MINIMUM OF 0.5" PRESSURE LOSS. TOTAL CONNECTED LOAD IS 699 MBH. REFER TO CIVIL PLANS FOR CONTINUATION OUTSIDE OF BUILDING.
5. EXTEND NATURAL GAS ALONG ROOF TO HVAC EQUIPMENT AS SHOWN. PROVIDE DIRT LEG AND GAS COCK AT EQUIPMENT CONNECTION. REFER TO HVAC EQUIPMENT INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.
6. PROVIDE 1" RPZ AFTER BUILDING RPZ FOR IRRIGATION SYSTEM. REFERENCE WATER SERVICE ENTRANCE DETAIL. STACK IRRIGATION RPZ WITH WATER SERVICE RPZ.
7. COORDINATE EXACT ROUTING OF GAS MAIN IN FIELD.

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Springfield, IL 62702

Date	08/15/2023
Job Number	20-003.12
Drawn By	JS
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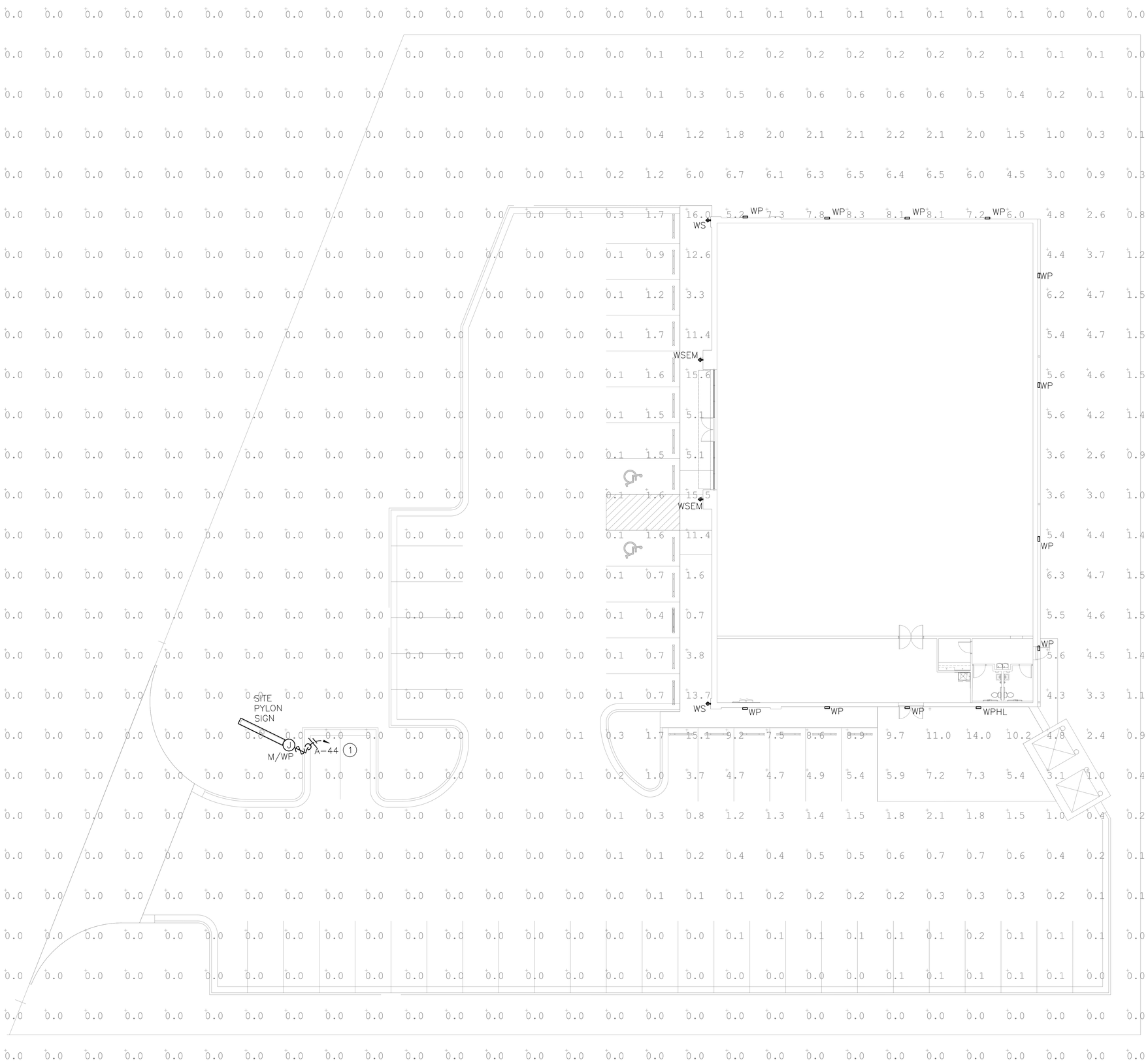
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P1.1
PLUMBING WATER AND GAS PLAN

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1 ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"

ELECTRICAL PLAN NOTES:

1. CONTRACTOR SHALL PROVIDE A WEATHERPROOF JUNCTION BOX FOR FUTURE PYLON SIGN. MOUNT TO SIGN PEDESTAL OR POLE. CONTRACTOR SHALL RUN (3) #8 WIRE IN 1" CONDUIT UNDERGROUND TO PYLON SIGN LOCATION. PYLON SIGN CIRCUIT SHALL BE CIRCUITED VIA TERMINAL STRIP ENCLOSURE. PROVIDE ADDITIONAL 12'-0" FEET OF CONDUCTORS COILED UP ABOVE ELECTRICAL PANEL AT CEILING FOR FUTURE USE.

ELECTRICAL GENERAL NOTES:

- REFERENCE SHEET E3.0 FOR ELECTRICAL GENERAL NOTES.

ELECTRICAL "VANILLA BOX" GENERAL NOTES:

- REFERENCE SHEET E3.0 FOR ELECTRICAL "VANILLA BOX" GENERAL NOTES.
- REFERENCE SHEET E1.0 FOR EXTERIOR LIGHTING SCHEDULE.

Calculation Summary					
Description	Symbol	Units	Avg	Max	Min
Entire Site (less Bldg.)	+	Fc	0.63	16.0	0.0

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Overland Park, KS 66223
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062-072160
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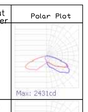
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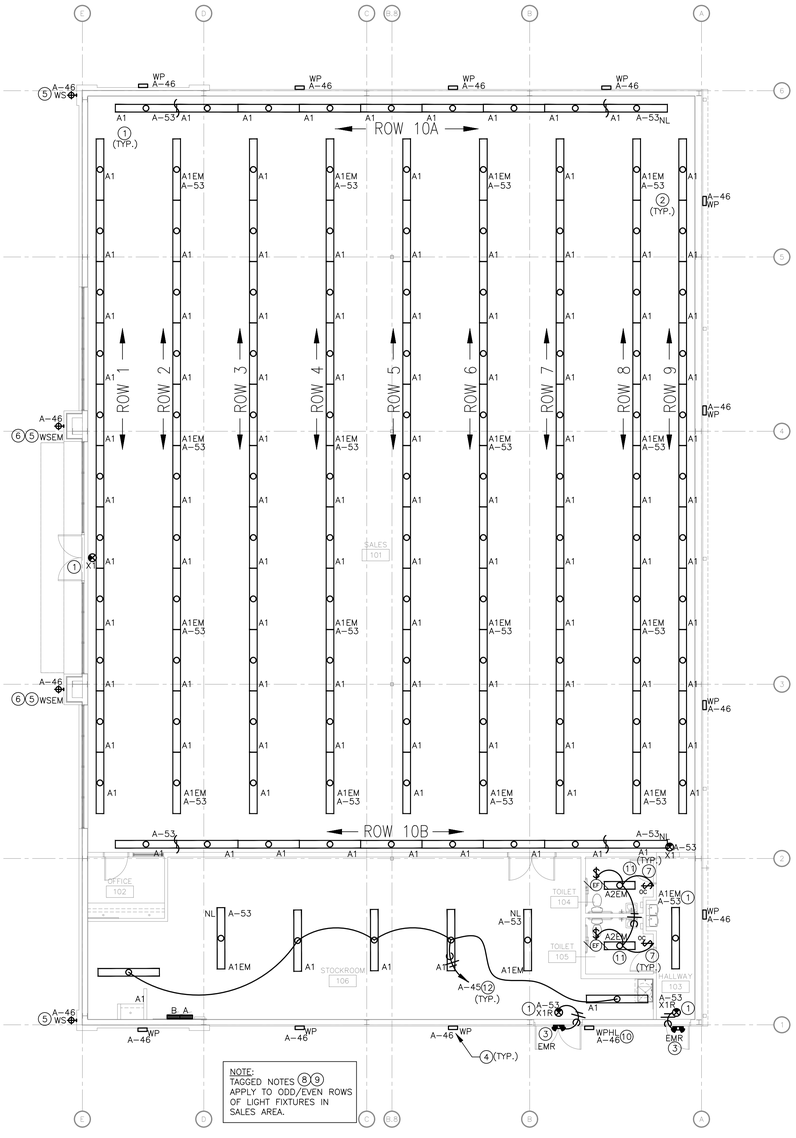
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E0.1
ELECTRICAL SITE LIGHTING PLAN

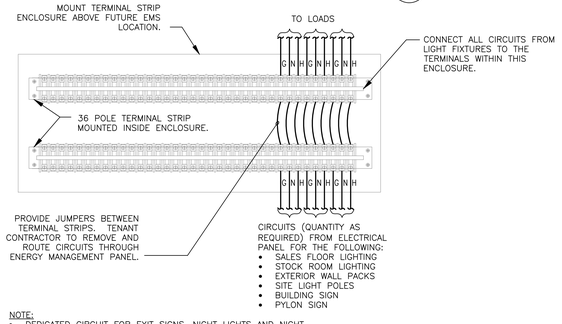
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Schedule

Symbol	Label	QTY	Manufacturer	Catalog	Description	LED SOURCE	LUMEN OUTPUT	LLF	Input Power	Polar Plot
☐	WP	14	H.E. WILLIAMS	WPCS-L44-840-BZ	BUILDING MOUNTED LUMINAIRE WITH A MOUNTING HEIGHT OF 12'. FIXTURE SHALL BE FULL CUT-OFF AND FULLY SHIELDED AT 90 DEGREES AND ABOVE.	YES	4,454	0.9	42	 Max: 2431cd
☐	WPHL	1	H.E. WILLIAMS	WPCL-L97-840-BZ	BUILDING MOUNTED LUMINAIRE WITH A MOUNTING HEIGHT OF 12'. FIXTURE SHALL BE FULL CUT-OFF AND FULLY SHIELDED AT 90 DEGREES AND ABOVE.	YES	9,702	0.9	93	 Max: 4408cd
☐	WS	4	LSI INDUSTRIES	XPWS3-WT-LED-48-350-NW-UE	BUILDING MOUNTED LUMINAIRE WITH A MOUNTING HEIGHT OF 10'. FIXTURE SHALL BE FULL CUT-OFF AND FULLY SHIELDED AT 90 DEGREES AND ABOVE.	YES	4,789	0.9	55	 Max: 2776cd



1 ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"



NOTE:
- DEDICATED CIRCUIT FOR EXIT SIGNS, NIGHT LIGHTS AND NIGHT LIGHTS WITH EMERGENCY BATTERY PACK SHALL BE CIRCUITED DIRECTLY TO ELECTRICAL PANEL AND NOT VIA TERMINAL STRIP ENCLOSURE.
- HOT LEG FOR EMERGENCY BATTERY BACKUP FOR INTERIOR AND EXTERIOR LIGHTING SHALL BE CIRCUITED DIRECTLY TO ELECTRICAL PANEL AND NOT VIA TERMINAL STRIP ENCLOSURE.

2 TERMINAL STRIP ENCLOSURE DETAIL
NO SCALE

ELECTRICAL LIGHTING PLAN NOTES:

1. ALL EXIT SIGNS, NIGHT LIGHTS, AND NIGHT LIGHTS WITH EMERGENCY BATTERY BACKUP SHALL BE CIRCUITED TO DEDICATED CIRCUIT WITH BREAKER LOCK.
2. WIRE EMERGENCY BATTERY BALLAST TO HOT LEG, AHEAD OF ANY LOCAL SWITCHING, INCLUDING FUTURE ENERGY MANAGEMENT SYSTEM CONTRACTORS.
3. EXTERIOR EMERGENCY LIGHT (2 HEADS) MOUNTED CENTERED ABOVE DOOR AT 7'6". EXTERIOR EMERGENCY LIGHT SHALL BE CONNECTED TO EMERGENCY EXIT LIGHT HI-OUTPUT BATTERY BACKUP.
4. EXTERIOR LED WALLPACK. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHT AND LOCATION.
5. EXTERIOR WALL SCONCE. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHT AND LOCATION. STOREFRONT REQUIRED FOOTCANDLE LEVELS PER FAMILY DOLLAR ARE 10fc MINIMUM AT SURFACE LEVEL.
6. EXTERIOR LED LIGHT FIXTURE WITH EMERGENCY BATTERY. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHT AND LOCATION.
7. PROVIDE OCCUPANCY SENSOR/SWITCH.
8. ONLY ODD NUMBERED ROW OF LIGHT FIXTURES SHALL BE ON THE SAME LIGHTING CIRCUIT(S) AND SHALL BE WIRED SUCH THAT THE CIRCUIT(S) CAN BE RE-WIRED THRU FUTURE ENERGY MANAGEMENT SYSTEM AT TIME OF FUTURE TENANT UPFIT. REFERENCE TERMINAL STRIP DETAIL ON THIS SHEET AND PANELBOARD SCHEDULE ON SHEET E4.0 FOR FURTHER INFORMATION.
9. ONLY EVEN NUMBERED ROW OF LIGHT FIXTURES SHALL BE ON THE SAME LIGHTING CIRCUIT(S) AND SHALL BE WIRED SUCH THAT THE CIRCUIT(S) CAN BE RE-WIRED THRU FUTURE ENERGY MANAGEMENT SYSTEM AT TIME OF FUTURE TENANT UPFIT. REFERENCE TERMINAL STRIP DETAIL ON THIS SHEET AND PANELBOARD SCHEDULE ON SHEET E4.0 FOR FURTHER INFORMATION.
10. EXTERIOR LED WALLPACK HIGH LUMEN OUTPUT. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHT AND LOCATION.
11. EXHAUST FAN AND RESTROOM LIGHT FIXTURE SHALL BE CONTROLLED BY WALL MOUNTED OCCUPANCY SENSOR.
12. ROUTE LIGHTING CIRCUIT THROUGH TERMINAL STRIP. REFERENCE DETAIL 2 ON THIS SHEET FOR FURTHER INFORMATION.

ELECTRICAL GENERAL NOTES:

- CONTRACTOR SHALL INSTALL ADDITIONAL WIRE TIE SUPPORTS FROM THE CEILING GRID TO THE STRUCTURE ABOVE FOR SUPPORT OF THE LIGHT FIXTURES CLIPPED ON THE GRID.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL LIGHT FIXTURES AND CONTROLS PER IECC 2012. COORDINATE WITH FINAL TENANT PACKAGE PRIOR TO INSTALL. LIGHTING CONTROLS SHALL BE PROVIDED BY TENANT. SHOULD BUILDING SHELL BE COMPLETED PRIOR TO TENANT INSTALLATION, TIMECLOCK AND PHOTOCELL SHALL BE REQUIRED PER IECC 2012. TIMECLOCK SHALL BE REMOVED ONCE TENANT'S CONTRACTOR HAS MADE LIGHT CIRCUIT CONNECTIONS TO EMS PANEL PER IECC REQUIREMENTS.
- REFERENCE SHEET E3.0 FOR ADDITIONAL ELECTRICAL GENERAL NOTES.

ELECTRICAL "VANILLA BOX" GENERAL NOTES:

- REFERENCE SHEET E3.0 FOR ELECTRICAL "VANILLA BOX" GENERAL NOTES.

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PERMIT

DOLLAR TREE

A New Retail Location For:
1713 W Jefferson St
Springfield, IL 62702

Date	08/15/2023
Job Number	20-003.12
Drawn By	JS
Checked By	GH
Type	3B-R-3

Revisions

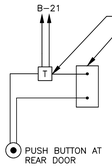
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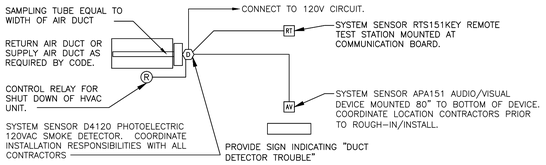
E1.0
ELECTRICAL LIGHTING PLAN

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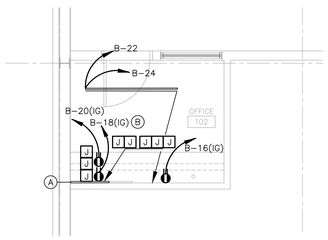
- ALL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE LATEST LOCAL CODES.
- CONTRACTOR SHALL PROVIDE, WIRE AND TEST OPERATION OF DUCT SMOKE DETECTORS, REMOTE TEST STATIONS AND NOTIFICATION DEVICES.
- INSTALL/WIRE DUCT SMOKE DETECTORS, REMOTE TEST STATIONS AND NOTIFICATION DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.



2 DOOR CHIME SCHEMATIC DIAGRAM
DIAGRAMMATIC ONLY



3 DUCT DETECTOR MOUNTING DETAIL
DIAGRAMMATIC ONLY



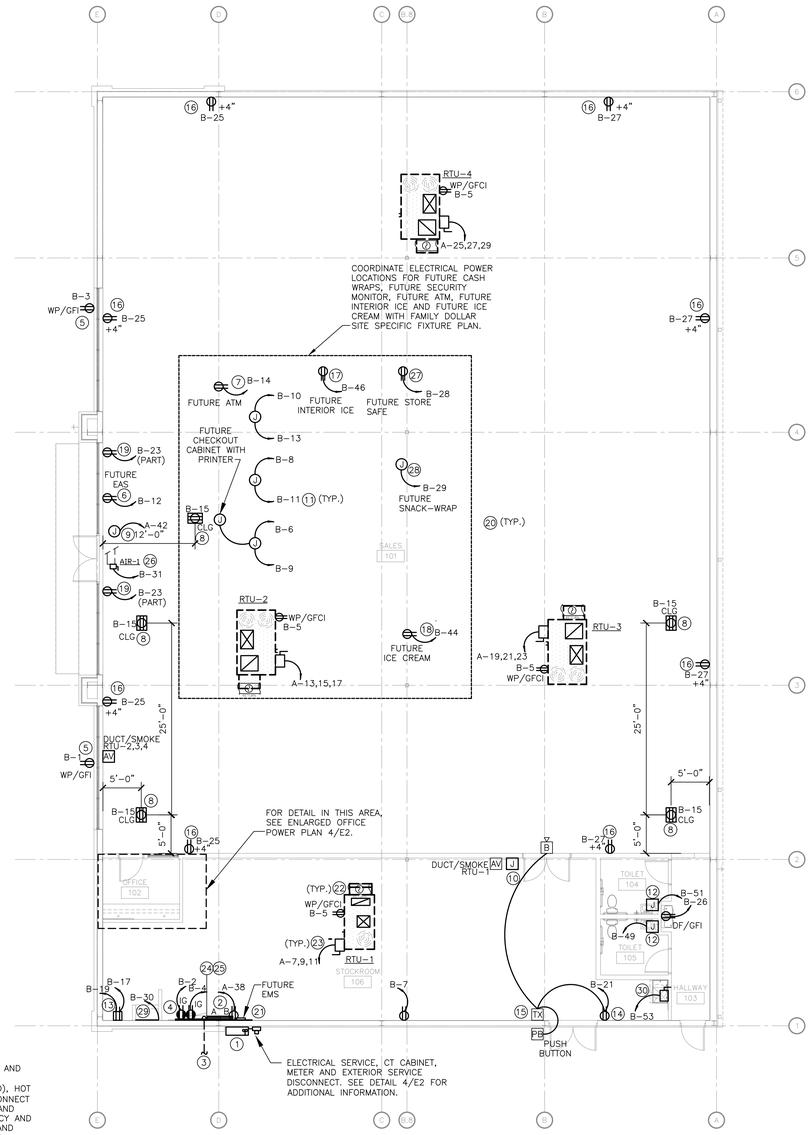
4 ENLARGED OFFICE POWER PLAN
SCALE: 1/4" = 1'-0"

ENLARGED OFFICE/RR PLAN NOTES:

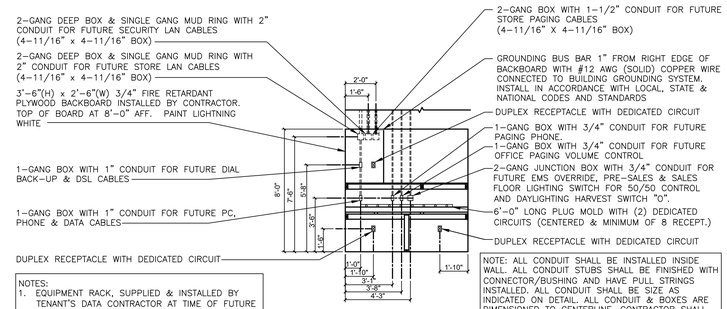
A. DVR BOARD: PROVIDE 3'-6"(H) x 2'-6"(W) 3/4" FIRE RETARDANT PLYWOOD WITH A UL CLASSIFICATION STAMP THAT MEETS OR EXCEEDS THE REQUIREMENTS FOR CLASS I OR CLASS A FLAMESPREAD RATING (IBC 2012 SECTION 2303.2). MOUNT DVR BOARD WITH BRACING AND FASTENERS RATED TO SUPPORT UP TO 250 LBS OF WEIGHT. MOUNT TOP OF DVR BOARD 8'-0" A.F.F. WITH EDGE OF DVR BOARD TIGHT AGAINST ADJACENT WALL.

B. SEE DETAIL 5 ON THIS SHEET FOR ADDITIONAL ELECTRICAL INFORMATION.

NOTE:
COORDINATE WITH ARCHITECTURAL, PLUMBING, MECHANICAL AND SITE PLANS FOR POWER REQUIREMENTS TO PLUMBING EQUIPMENT. HVAC EQUIPMENT, AUTOMATIC DOORS (IF USED), HOT BOX (IF USED), SITE LIGHT POLES, PYLON SIGN, ETC. CONNECT ALL PLUMBING, MECHANICAL AND ELECTRICAL EQUIPMENT AND FIXTURES, INCLUDING BUT NOT LIMITED TO EXIT, EMERGENCY AND SITE LIGHTING AND IRRIGATION SYSTEM. ALL EQUIPMENT AND FIXTURES SHALL BE COMPLETELY CONNECTED, TESTED AND FULLY OPERATIONAL PRIOR TO DELIVERY DATE.



1 ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"



5 OFFICE ELEVATION
SCALE: NTS

ELECTRICAL GENERAL NOTES:

- REFERENCE SHEET E3.0 FOR ELECTRICAL GENERAL NOTES.

ELECTRICAL "VANILLA BOX" GENERAL NOTES:

- REFERENCE SHEET E3.0 FOR ELECTRICAL "VANILLA BOX" GENERAL NOTES.

ELECTRICAL POWER PLAN NOTES:

1. PROVIDE MINIMUM 600A, 208Y/120V, 3PH, 4WIRE ELECTRICAL SERVICE TO BUILDING. PROVIDE A SERVICE DISCONNECT SWITCH ON EXTERIOR OF BUIDLING. A LARGER SERVICE MAY BE REQUIRED IF HVAC UNITS WITH ELECTRIC HEAT OR HEAT PUMPS WITH SUPPLEMENTAL ELECTRIC HEAT ARE USED. SERVICE LOAD CALCULATIONS AND PANEL LOAD CALCULATIONS SHALL INCLUDE A FUTURE REFRIGERATION LOAD OF 30kW. ALTERNATE SERVICE VOLTAGES AND/OR PHASES REQUIRE PRIOR WRITTEN APPROVAL FROM FAMILY DOLLAR PRIOR TO BEGINNING CONSTRUCTION AND WILL NOT BE ACCEPTED OTHERWISE. SEE ELECTRICAL RISER DIAGRAM ON SHEET E3.0 FOR FURTHER INFORMATION.
2. ELECTRICAL PANEL LOCATION PER FAMILY DOLLAR APPROVED FLOOR PLAN. SEE ELECTRICAL RISER DIAGRAM ON SHEET E3.0 FOR FURTHER INFORMATION. ALTERNATE LOCATIONS REQUIRE PRIOR WRITTEN APPROVAL FROM FAMILY DOLLAR PRIOR TO BEGINNING CONSTRUCTION AND WILL NOT BE ACCEPTED OTHERWISE.
3. CONTRACTOR SHALL PROVIDE 2" EMPTY CONDUIT, SCHEDULE 40 PVC, WITH NYLON PULLWIRE FOR INCOMING TELEPHONE SERVICE. CONTRACTOR SHALL ROUTE TELEPHONE CONDUIT TO PHONE PEDESTAL, PROPERTY LINE, OR POINT AS COORDINATED WITH LOCAL TELEPHONE COMPANY. STUB CONDUIT BELOW COMMUNICATION BOARD LOCATION. TELEPHONE COMPANY DMARC SHALL BE INSTALLED INSIDE ON COMMUNICATION BOARD. DO NOT INSTALL CONDUIT OR DMARC EXPOSED ON FACE OF EXTERIOR WALL. THESE MUST BE LOCATED INSIDE.
4. PROVIDE 4' X 6' PLYWOOD COMMUNICATION BACKBOARD NEXT TO ELECTRICAL PANELS MOUNTED 12" A.F.F. PROVIDE TELCO GROUND BAR AND #8 GROUNDING CONDUCTOR TO SERVICE GROUND. PROVIDE (2) DEDICATED 20A 120V IG CIRCUITS TO (2) DEDICATED IG RECEPTACLES SUFACE MOUNTED ON COMMUNICATION BACKBOARD. MOUNT RECEPTACLES AT 6'-0" A.F.F. ON RIGHT SIDE OF COMMUNICATION BOARD.
5. PROVIDE DEDICATED 120V, 20A CIRCUIT TO GFCI, WEATHERPROOF EXTERIOR RECEPTACLE RECESSED IN WALL 18" A.F.F. WITH FACE FLUSH WITH EXTERIOR WALL. PROVIDE WITH "IN-USE" COVERS. DO NOT LOCATE RECEPTACLE ADJACENT TO HANDICAP ACCESS AREAS/RAMPS.
6. PROVIDE DEDICATED 120V, 20A CIRCUIT TO FLUSH MOUNTED IG RECEPTACLE IN WALL 6" BELOW FINISHED CEILING HEIGHT FOR FUTURE EAS POWER SUPPLY. RECEPTACLE SHALL BE MOUNTED DIRECTLY ABOVE DOOR MULLION CLOSEST TO FUTURE CHECKOUT STATIONS. CONFIRM SIDE TO MOUNT RECEPTACLE WITH FD SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION. FUTURE EAS SHALL BE FURNISHED AND INSTALLED BY EAS VENDOR AT TIME OF FD UPFIT.
7. PROVIDE DEDICATED 120V, 20A DUPLEX RECEPTACLE AND CIRCUIT FOR FUTURE ATM. CONFIRM RECEPTACLE LOCATION WITH FD SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION.(INSTALL POWER AND CONDUIT WITH PULL STRING -- PRICE AS ELECTRICAL ALTERNATE.)
8. PROVIDE FLUSH MOUNTED RECEPTACLE IN CEILING FOR FUTURE SECURITY MONITORS. PROVIDE ONE 120V, 20A CIRCUIT FOR ALL RECEPTACLES.
9. FURNISH AND INSTALL 120V, 20A DEDICATED CIRCUIT TO JUNCTION BOX ABOVE CEILING FOR FUTURE EXTERIOR BUILDING SIGNS. CIRCUIT SHALL BE TERMINATED AT A JUNCTION BOX(ES) LOCATED MINIMUM 13'-0" AFF. BUILDING SIGN CIRCUIT SHALL BE CIRCUITED VIA TIMECLOCK. PROVIDE ADDITIONAL 6'-0" FEET OF SLACK ABOVE ELECTRICAL PANEL. COORDINATE ACTUAL NUMBER OF BUILDING MOUNTED SIGNS WITH ARCHITECTURAL ELEVATIONS AND FDS PROJECT MANAGER PRIOR TO CONSTRUCTION. COORDINATE REQUIRED JUNCTION BOX QUANTITIES AND LOCATION WITH ARCHITECTURAL ELEVATIONS AND SIGN SUPPLIER PRIOR TO ELECTRICAL ROUGH-IN.
10. PROVIDE SINGLE GANG JUNCTION BOX MOUNTED NEXT TO STOCK ROOM DOOR FOR FUTURE PAGING PHONE.. E.C. SHALL MOUNT JUNCTION BOX IN WALL AT 48" A.F.F. WITH 3/4" CONDUIT WITH PULL STRING UP IN WALL TO 6" ABOVE SALES FLOOR CEILING. PAGING SYSTEM SHALL BE PROVIDE BY FD VENDOR AT TIME OF FUTURE TENANT UPFIT.
11. PROVIDE (6) SIX DEDICATED 120V, 20A CIRCUITS FOR FUTURE CASH STATIONS. CIRCUITS SHALL BE TERMINATED TO JUNCTION BOXES SECURED TO STRUCTURE. CONFIRM LOCATION OF JUNCTION BOXES WITH FD SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION. FUTURE POWER POLES FOR CASH STATIONS SHALL BE FURNISHED AND INSTALLED AT TIME OF FUTURE FD UPFIT. JUNCTION BOXES SHALL BE LOCATED WITHIN 3' OF FUTURE POWER POLE LOCATIONS. LABEL ALL JUNCTION BOXES WITH CIRCUIT NUMBER AND DESCRIPTION AS SHOWN ON PANEL SCHEDULE. ALL CIRCUTIS SHALL HAVE DEDICATED NEUTRALS. DO NOT SHARE NEUTRALS. PROVIDE ADDITIONAL JUNCTION BOX ABOVE CEILING FOR FUTURE CHECKOUT CABINET AND CIRCUIT TO NEAREST CASH STATION JUNCTION BOX.
12. PROVIDE DEDICATED 120V, 20A CIRCUIT FOR FUTURE HAND DRYER. CIRCUIT SHALL BE TERMINATED TO JUNCTION BOX IN WALL. CONFIRM MOUNTING HEIGHT AND LOCATION WITH ARCHITECTURAL ENLARGED RESTROOM PLAN.
13. PROVIDE QUAD RECEPTACLE MOUNTED AT 18" A.F.F. IN EMPLOYEE BREAK AREA. PROVIDE TWO (2) DEDICATED 120V, 20A CIRCUITS. ONE CIRCUIT SHALL FEED THE LEFT DUPLEX RECEPTACLE AND THE SECOND CIRCUIT SHALL FEED THE RIGHT DUPLEX RECEPTACLE. CONFIRM RECEPTACLE LOCATION WITH FD SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION.
14. PROVIDE DEDICATED 120V, 20A CIRCUIT TO FLUSH MOUNTED RECEPTACLE IN WALL 18" A.F.F. IN STOCK ROOM NEAR FREIGHT DOOR.
15. PROVIDE DOOR BELL, PUSH BUTTON AND LOW VOLTAGE TRANSFORMER. MOUNT DOOR BELL ABOVE STOCK ROOM DOOR ON SALES SIDE. WIRE TO CIRCUIT FOR STOCK ROOM RECEPTACLE.
16. PROVIDE RECEPTACLES ON SALES FLOOR APPROXIMATELY 50' APART ON EACH WALL MOUNTED 4" A.F.F. MINIMUM TWO (2) RECEPTACLES PER WALL EXCEPT THAT WALL WITH REFRIGERATION CASES ONLY GETS ONE (1). PROVIDE TWO (2) 120V, 20A CIRCUITS FOR THE RECEPTACLES.
17. PROVIDE DEDICATED 120V, 20A CIRCUIT TO FLUSH MOUNTED RECEPTACLE IN WALL 18" A.F.F. FOR FUTURE INTERIOR ICE. CONFIRM RECEPTACLE LOCATION WITH FD SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION.
18. PROVIDE DEDICATED 120V, 20A CIRCUIT TO FLUSH MOUNTED RECEPTACLE IN WALL 18" A.F.F. FOR FUTURE ICE CREAM BUNKER. PROVIDE PULL STRING. CONFIRM RECEPTACLE LOCATION WITH FD SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION. (PRICE AS ELECTRICAL ALTERNATE.)
19. PROVIDE DUPLEX RECEPTACLE FOR "SHOW WINDOW" LIGHTING. MOUNT ABOVE WINDOW IN WALL OR CEILING, BUT WITHIN 18" OF TOP OF WINDOW. PROVIDE ONE (1) 120V, 20A CIRCUIT FOR ALL RECEPTACLES.
20. MC CABLE IS ALLOWED AS BUILDING STANDARD WHERE LOCAL CODE JURISDICTION WILL ALLOW. ALL MC CABLE SHALL BE RUN OVERHEAD, AND IN A NEAT AND ORGANIZED FASHION. WHERE CODE DOES NOT ALLOW MC CABLE, EMT SHALL BE USED. ALL EXPOSED CABLE AND CONDUIT SHALL BE RUN TIGHT TO CEILING CONSTRUCTION AND CONCEALED FROM VIEW WHEREVER POSSIBLE.
21. FUTURE ENERGY MANAGEMENT SYSTEM (EMS). FUTURE EMS SHALL BE PROVIDED BY EMS VENDOR AT TIME OF FUTURE FD UPFIT.
22. PROVIDE DUCT MOUNTED SMOKE DETECTOR IN RETURN AIR MAIN. MOUNT REMOTE TEST STATION IN ACCESSIBLE LOCATION. COORDINATE WITH AHJ AND ARCHITECT. REFERENCE 3/E2.0 FOR FURTHER INFORMATION.
23. RTU SHALL BE PROVIDED WITH INTEGRAL DISCONNECT SWITCH AND NON-POWERED DUPLEX CONVENIENCE RECEPTACLE INSTALLED ON MECHANICAL EQUIPMENT AT THE FACTORY. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR. REFERENCE SHEET E4.0 PANEL SCHEDULES AND MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
24. PROVIDE AND INSTALL (7) CONDUITS BACK TO LEFT SIDE OF PANEL "A" FOR COOLERS. MOUNT BOXES AT 100"A.F.F. INSTALL PULL STRINGS. (PRICE AS ELECTRICAL ALTERNATE.) CONFIRM SIZE AND LOCATIONS WITH FAMILY DOLLAR CONSTRUCTION MANAGER.
25. PROVIDE AND INSTALL (2) CONDUITS BACK TO LEFT SIDE OF PANEL "A" FOR FREEZERS. MOUNT BOXES AT 100" A.F.F. INSTALL PULL STRINGS. (PRICE AS ELECTRICAL ALTERNATE.) CONFIRM SIZE AND LOCATIONS WITH FAMILY DOLLAR CONSTRUCTION MANAGER.
26. PROVIDE POWER TO NEW AIR CURTAIN WHERE SHOWN. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
27. PROVIDE DEDICATED 120V DUPLEX RECEPTACLE AND 20A CIRCUIT FOR FUTURE STORE SAFE. CONFIRM RECEPTACLE LOCATION WITH FD SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION.
28. PROVIDE DEDICATED 120V, 20A CIRCUIT IN JUNCTION BOX AT STRUCTURE FOR FOR FUTURE SNACK-WRAP LOCATION. CONFIRM LOCATION WITH FD SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION.
29. PROVIDE AND INSTALL 30" PLUGMOLD WITH (1) 120V, 20A DEDICATED CIRCUIT AND A MINIMUM OF FIVE RECEPTACLES. COORDINATE MOUNTING LOCATION WITH ARCHITECTURAL PLANS. PROVIDE AND INSTALL (1) SINGLE-GANG DATA BOX MOUNTED IN HORIZONTAL CONFIGURATION WITH 3/4" STUB-UP.
30. SINGLE PHASE /120V CONNECTION FOR ELECTRIC WATER HEATER. PROVIDE NEMA 3R DISCONNECT SWITCH WITH RATINGS AS INDICATED FOR WATER HEATER. COORDINATE ALL WORK WITH PLUMBING CONTRACTOR AND ENSURE NEC CLEARANCES ARE MAINTAINED. ROUTE CIRCUIT TO DISCONNECT AND FROM DISCONNECT TO WATER HEATER. REFERENCE PLUMBING SHEET FOR ADDITIONAL INFORMATION.

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h|d Architecture, LLC

LICENSE EXPIRATION DATE: NOVEMBER 30, 2023
THOMAS J ELLIS JR
062-072160
08/16/2023
STATE OF ILLINOIS

LICENSE #: 062-072160
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PERMIT

DOLLAR TREE®

A New Retail Location For:
1713 W Jefferson St
Springfield, IL 62702

Date	08/15/2023
Job Number	20-003.12
Drawn By	JS
Checked By	GH
Type	3B-R-3

Revisions

Number	Date	Description

E2.0
ELECTRICAL POWER PLAN

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POWER LEGEND:

- INDICATES ABOVE COUNTER (TYP)
- DUPLEX RECEPTACLE MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48"AFF (UNO).
- DUPLEX ISOLATED GROUND RECEPTACLE MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48"AFF (UNO).
- DUPLEX RECEPTACLE ON STAND-BY GENERATOR POWER, MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN ABOVE COUNTER SHALL BE +48"AF (UNO).
- FOURPLEX RECEPTACLE MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN TO BE ABOVE COUNTER SHALL BE +48"AFF (UNO)
- FOURPLEX ISOLATED GROUND RECEPTACLE MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN TO BE ABOVE COUNTER SHALL BE +48"AFF (UNO)
- FLOOR-MOUNTED DUPLEX OR FOURPLEX RECEPTACLE MOUNTED IN PVC FLOORBOX, OR POKE-THRU
- "GFCI" INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE
  "WP" INDICATES WEATHERPROOF WITH "IN-USE" COVER.
  "IC" INDICATES ISOLATED GROUND RECEPTACLE WITH ISOLATED GROUND WIRE AND DEDICATED NEUTRAL HUBBELL #IG-5262
- WEATHERPROOF PUSH BUTTON FOR DOORBELL SYSTEM MOUNTED 46" A.F.G. TO CENTER. EDWARDS MODEL #690-W WITH EDWARDS MODEL #147-1 MOUNTING PLATE.
- DOOR CHIME FOR DOORBELL SYSTEM MOUNTED ABOVE CEILING. CONNECT TO DOOR CHIME TRANSFORMER. EDWARDS MODEL #338-G5 (24VAC, 12VA)
- LOW VOLTAGE STEP DOWN TRANSFORMER FOR DOORBELL SYSTEM. EDWARDS MODEL #592 PROVIDE WITH EDWARDS MODEL #593 TRANSFORMER MOUNTING PLATE. MOUNT 9'-0" A.F.F. IN SUPPORT ROOM.
- SINGLE POLE WALL MOUNT TOGGLE SWITCH. MOUNT AT +46" AFF TO CENTER OF SWITCH. "M" INDICATES 120V, 20A MOTOR RATED TOGGLE SWITCH.
- OCCUPANCY SENSOR SWITCH WITH OVERRIDE SWITCH, MOUNTED 46" A.F.F. TO CENTER. PROVIDE SENSOR SWITCH MODEL ACUITY #WSX-WH.
- CEILING MOUNT LINE VOLTAGE OCCUPANCY SENSOR, MOUNTED CEILING. PROVIDE OCC. SENSOR MODEL ACUITY #CMR-WH.
- TELEPHONE OUTLET, 18" A.F.F. TO CENTER OR AT HEIGHT INDICATED ON PLANS. PROVIDE SINGLE GANG DATA BOX WITH 5" CONDUIT WITH PULL STRING TO 6" ABOVE LAY-IN CEILING OR TO 12' A.F.F. IN AREAS WITH NO CEILING. CAT5E CABLING AND COVERPLATE SHALL BE INSTALLED BY FD'S LOW VOLTAGE CONTRACTOR AT TIME OF FUTURE TENANT UPFIT.
- DATA OUTLET, 18" A.F.F. TO CENTER OR AT HEIGHT INDICATED ON PLANS. PROVIDE SINGLE GANG DATA BOX WITH 5" CONDUIT WITH PULL STRING TO 6" ABOVE LAY-IN CEILING OR TO 12' A.F.F. IN AREAS WITH NO CEILING. CAT5E CABLING AND COVERPLATE SHALL BE INSTALLED BY FD'S LOW VOLTAGE CONTRACTOR AT TIME OF FUTURE TENANT UPFIT.
- GENERAL DUTY FUSIBLE/NON-FUSIBLE DISCONNECT SWITCH, NUMBERS INDICATE FRAME SIZE, NUMBER OF POLES AND FUSING. PROVIDE NEMA 1 ENCLOSURE INSIDE. PROVIDE NEMA 3 ENCLOSURE FOR ALL SWITCHES LOCATED OUTSIDE.
  "FPN" INDICATES FUSE PER EQUIPMENT NAMEPLATE.
  "NF" INDICATES NON-FUSED.
- ELECTRICAL PANEL BOARD, FLUSH OR SURFACE MOUNT
- JUNCTION BOX WALL OR CEILING MOUNTED
  NOTE: LINE THROUGH DEVICE INDICATES TO BE MOUNTED ABOVE COUNTERTOP OR CABINET. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS IF NOT INDICATED ON POWER PLAN.
- FAN, FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. PROVIDE DISCONNECTING MEANS AS REQUIRED.

WIRING LEGEND:

- HOMERUN TO PANELBOARD WITH NUMBER AND SIZE OF CONDUCTORS INDICATED ON PLANS.
- GROUNDED CONDUCTOR.
- CONDUIT OR CIRCUIT BREAK/CONTINUATION.
- CONDUIT WITH ENDCAP FOR FUTURE USE.
- GROUNDING SOURCE.

LINETYPES LEGEND:

- NEW
- EXISTING OR BY OTHERS
- DEMOLITION

LIGHTING LEGEND:

- 8'-0" INDUSTRIAL STRIP FIXTURE
- 8'-0" INDUSTRIAL STRIP FIXTURE WITH EMERGENCY BATTERY BACKUP (EM)
- 4'-0" INDUSTRIAL STRIP FIXTURE
- 4'-0" INDUSTRIAL STRIP FIXTURE WITH EMERGENCY BATTERY BACKUP (EM)
- EXTERIOR LED WALL MOUNTED LIGHT FIXTURE
- EXTERIOR LED WALL MOUNTED LIGHT FIXTURE WITH BATTERY BACKUP (EM)
- SINGLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.
- SINGLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE. HIGH OUTPUT BATTERY BACKUP. (HO)
- EXTERIOR EMERGENCY FIXTURE REMOTE HEADS (EMR)
- INTERIOR EMERGENCY FIXTURE
- EXTERIOR POLE MOUNTED FIXTURE
- EXTERIOR WALL PACK (WP)
- EXTERIOR HIGH LUMEN WALL PACK (WPHL)

NOTE: REFER TO LIGHT FIXTURE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS.

FIRE ALARM LEGEND:

- SMOKE DETECTOR
- COMBINATION AUDIO/VISUAL DEVICE, +80"AFF
- VISUAL DEVICE, +80"AFF
- PULL STATION, +48"AFF
- FIRE ALARM BELL, 120V
- FIRE ALARM RELAY (R)
- DUCT SMOKE DETECTOR AUDIO/VISUAL DEVICE MOUNTED 80" AFF TO BOTTOM OF DEVICE. COORDINATE INSTALLATION RESPONSIBILITIES WITH ALL CONTRACTORS. SEE WIRING DIAGRAM 3/E-2 FOR DETAILS. (AV)
- DUCT SMOKE DETECTOR REMOTE TEST STATION MOUNTED AT COMMUNICATION BOARD. SEE DETAIL 1/E4.0 FOR EXACT LOCATION. COORDINATE INSTALLATION RESPONSIBILITIES WITH ALL CONTRACTORS. SEE WIRING DIAGRAM 3/E-2 FOR DETAILS. (RT)
- SUPPLY DUCT/PLENUM MOUNTED SMOKE DETECTOR, CONNECT TO 120V CIRCUIT INDICATED. COORDINATE INSTALLATION RESPONSIBILITIES WITH ALL CONTRACTORS. SEE WIRING DIAGRAM 3/E-2 FOR DETAILS.
- RETURN DUCT/PLENUM MOUNTED SMOKE DETECTOR, CONNECT TO 120V CIRCUIT INDICATED. COORDINATE INSTALLATION RESPONSIBILITIES WITH ALL CONTRACTORS. SEE WIRING DIAGRAM 3/E-2 FOR DETAILS.
- FACP FIRE ALARM CONTROL PANEL
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FS FIRE ALARM STROBE POWER SUPPLY
- DH FIRE ALARM DOOR HOLD
- DR FIRE ALARM DOOR RELEASE
- DACT FIRE SPRINKLER FLOW/TAMPER SUPVERVISORY PANEL. PROVIDE (2) DEDICATED PHONE LINES AS REQUIRED.

ABBREVIATIONS LEGEND:

AFF	ABOVE FINISHED FLOOR
ED	EXISTING TO BE DEMOLISHED
EM	EMERGENCY
ER	EXISTING TO BE RELOCATED
ETR	EXISTING TO REMAIN
GFI	GROUND FAULT INTERRUPTER
NL	NIGHT LIGHT
UNO	UNLESS NOTED OTHERWISE

ELECTRICAL "VANILLA BOX" GENERAL NOTES:

- ELECTRICAL SERVICE CONNECTION: CONTRACTOR SHALL INSTALL ALL MAIN DISTRIBUTION PANEL(S) (MDP), ELECTRICAL PANEL(S), METER AND METER BASE., BREAKERS, TRANSFORMER(S) BASED ON FAMILY DOLLAR (FD) GENERAL ELECTRICAL SERVICE REQUIREMENTS. ALL ELECTRICAL PANELS MUST BE INSTALLED IN LOCATIONS SHOWN ON FD'S FINAL PLANS. CONTRACTOR SHALL INSTALL PANEL SCHEDULES INSIDE EACH ELECTRICAL PANEL GIVING DESCRIPTION FOR EACH CIRCUIT USED. IF SITE HAS A DIFFERENT SERVICE VOLTAGE CONFIGURATION, CONTRACTOR MUST NOTIFY ENGINEER/FD TO DETERMINE APPROPRIATE SERVICE SIZE.
- ELECTRICAL – SIGNAGE: CONTRACTOR SHALL INSTALL FD'S SIGNAGE CIRCUIT CONSISTING OF (1) 20A, 110V CIRCUIT. TERMINATE CIRCUIT IN JUNCTION BOX AT THE STOREFRONT AND IN THE TERMINAL STRIP ENCLOSURE PER PLANS AND DESCRIBED IN ELECTRICAL–LIGHTING PARAGRAPH BELOW NEAR ELECTRICAL PANELS. THIS WILL PROVIDE AN INTERFACE POINT FOR FD'S FUTURE ENERGY MANAGEMENT SYSTEM. (EMS)
- ELECTRICAL – CHECKOUTS: CONTRACTOR SHALL INSTALL (1) JUNCTION BOX CONSISTING OF (1) DEDICATED CIRCUIT AND (1) ISOLATED DEDICATED CIRCUIT FOR EACH CHECKOUT. JUNCTION BOX SHALL BE LOCATED ABOVE THE CEILING ABOVE EACH CHECKOUT. REFER TO FD'S PLANS FOR QUANTITY AND LOCATION
- ELECTRICAL – DUPLEX RECEPTACLES: CONTRACTOR SHALL INSTALL (1) CEILING MOUNTED DUPLEX RECEPTACLE CENTERED ON STOREFRONT DOORS AND 12'-0" FROM FRONT WALL. SALES AREA – A MINIMUM OF (3) CIRCUITS SHALL BE USED TO FEED THE SALES AREA RECEPTACLES WITH THE CIRCUIT LOADS BALANCED AS BEST AS POSSIBLE. CONTRACTOR SHALL INSTALL (1) CEILING MOUNTED DUPLEX CENTERED ON STOREFRONT DOORS AND 12'-0" FROM FRONT WALL. STOCKROOM – CONTRACTOR SHALL INSTALL STANDARD DUPLEX RECEPTACLE AT 0'-18" A.F.F. AND SPACED NO MORE THAN 40'-0" APART ON THE STOCK ROOM PERIMETER WALL UNLESS OTHERWISE REQUIRED BY CODE.
- ELECTRICAL – ABOVE STOREFRONT DOOR: CONTRACTOR SHALL INSTALL ISOLATED DEDICATED DUPLEX RECEPTACLE ABOVE STOREFRONT DOORS BETWEEN 10'-0" AND 12'-0" A.F.F.
- ELECTRICAL – DOORBELL: CONTRACTOR SHALL INSTALL DOORBELL BUTTON ON EXTERIOR LATCH SIDE OF THE FREIGHT DOOR AND A DOORBELL CHIME ON THE SALES SIDE OF STOCKROOM WALL ABOVE THE STOCKROOM DOORS.
- ELECTRICAL – EMPLOYEE AREA: CONTRACTOR SHALL INSTALL FD'S EMPLOYEE ELECTRICAL/DATA PACKAGE TO INCLUDE BUT NOT LIMITED TO JUNCTION BOXES, CONDUIT WITH PULL STRINGS, ELECTRICAL DEVICES, FACE PLATES, ETC. PER FD'S PLANS.
- ELECTRICAL – ATM (FAMILY DOLLAR ONLY): CONTRACTOR SHALL INSTALL ISOLATED DEDICATED DUPLEX RECEPTACLE AT 0'-18" A.F.F.
- ELECTRICAL – COMMUNICATION BOARD (FAMILY DOLLAR ONLY): CONTRACTOR SHALL INSTALL (2) ISOLATED DEDICATED DUPLEX RECEPTACLES.
- ELECTRICAL – FUTURE VENDING (FAMILY DOLLAR ONLY): CONTRACTOR SHALL INSTALL (2) WATERPROOF GFI RECEPTACLES ON STOREFRONT EXTERIOR, (1) ON EACH SIDE OF STOREFRONT ENTRANCES.
- ELECTRICAL – LIGHTING: CONTRACTOR SHALL INSTALL AN ENCLOSURE (WITH TERMINAL STRIPS) PER FD'S PLANS ADJACENT TO ELECTRICAL PANELS. CONTRACTOR SHALL CONNECT ALL CIRCUITS FROM THE LIGHT FIXTURES TO THE TERMINALS WITHIN THIS ENCLOSURE. EACH ROW OF LIGHT FIXTURES SHALL BE ON AN INDIVIDUAL CIRCUIT ON THE ELECTRICAL PANEL FOR SEPARATION OF CONTROL. FAMILY DOLLAR WILL INSTALL AN ENERGY MANAGEMENT SYSTEM (EMS) AT A LATER DATE AND WILL USE THIS ENCLOSURE AS THE INTERFACE POINT FOR CONTROLLING THE LIGHTING CIRCUITS. NIGHT LIGHTS AND EXIT SIGNS SHALL BE WIRED DIRECTLY TO ELECTRICAL PANEL. CONTRACTOR SHALL HAVE ALL LIGHTS COMPLETELY CONNECTED, TESTED AND READY TO ENERGIZE PRIOR TO DELIVERY DATE.
- ELECTRICAL – INTERIOR LIGHTING – GENERAL LIGHTING: IN THE AREA OF SALES AREA, OFFICE, STOCKROOM, EMPLOYEE AREA, EGRESS, AND RESTROOM HALLWAYS, CONTRACTOR SHALL INSTALL (8'-0") LIGHT FIXTURES. LIGHT FIXTURES SHALL BE CONNECTED END-TO-END TO FORM A CONTINUOUS ROW (NO SPACE BETWEEN FIXTURES IN ROW) AND AS INDICATED ON FD'S REFLECTED CEILING PLAN. FIXTURES ARE TO HAVE (2) 4'-0" 18W LED LAMPS. LAMPS ARE TO BE LED 4000KELVIN COLOR TEMP.
- ELECTRICAL – INTERIOR LIGHTING – INFILL LIGHTING: CONTRACTOR SHALL INSTALL 4'-0" STRIP LIGHT FIXTURES. LIGHT FIXTURES SHALL BE CONNECTED END-TO-END TO FORM A CONTINUOUS ROW (NO SPACE BETWEEN FIXTURES IN ROW) AND AS INDICATED ON FD'S REFLECTED CEILING PLAN. FIXTURES ARE TO HAVE (1) 4'-0" 18W LED LAMP. LAMPS ARE TO BE LED 4000K COLOR TEMP.
- ELECTRICAL – INTERIOR LIGHTING – EMERGENCY/NIGHT LIGHTS: CONTRACTOR SHALL INSTALL LED INTERIOR EMERGENCY/NIGHT LIGHTING BALLASTS IN THE SAME FIXTURE AS GENERAL LIGHTING WHERE ALLOWED BY CODE. IN JURISDICTIONS THAT DO NOT ALLOW THIS, STAND-ALONE EMERGENCY LIGHTING UNITS SHALL BE USED AND SHALL BE CEILING MOUNTED (NO LIGHTS MOUNTED ON INTERIOR PERIMETER WALLS). QUANTITY AND LOCATIONS WILL BE DICTATED BY LOCAL AND NATIONAL CODES.
- ELECTRICAL – INTERIOR LIGHTING – EXIT LIGHTS: CONTRACTOR SHALL INSTALL LED EXIT LIGHT FIXTURES WITH BATTERY BACK-UP. QUANTITY AND LOCATIONS WILL BE DICTATED BY LOCAL AND NATIONAL CODES. EXIT SIGNS MUST BE CEILING MOUNTED TO AVOID CONFLICT WITH FD'S WALL GRAPHICS.
- ELECTRICAL – EXTERIOR LIGHTING – WALL PACKS: CONTRACTOR SHALL INSTALL LED LIGHT FIXTURES ABOVE EVERY EXTERIOR DOOR TO THE PREMISE. THESE FIXTURES SHALL BE A MINIMUM OF 70 WATTS U.N.O. ON LIGHTING PLAN.
- ELECTRICAL – EXTERIOR LIGHTING – EMERGENCY EXIT: CONTRACTOR SHALL INSTALL LED EXTERIOR EGRESS LIGHTING AT EACH EXTERIOR DOOR FROM THE PREMISE. THESE EXTERIOR FIXTURES SHALL HAVE REMOTE BATTERIES MOUNTED JUST INSIDE FD'S SPACE.

ELECTRICAL GENERAL NOTES:

- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS, NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMITTING BID.
- ALL WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE INDUSTRY STANDARDS.
- COORDINATE EXACT LOCATIONS OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWING AND OTHER TRADES PRIOR TO ROUGH-IN. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRE TO PROPERLY INSTALL ALL SYSTEMS.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC/SCHEMATIC IN NATURE AND REPRESENT THE GENERAL SCOPE OF WORK.
- COORDINATE RECEPTACLES AND COVER PLATE TYPES WITH ARCHITECT AND OWNER, PRIOR TO ORDER.
- INSTALL PULL STRING IN ALL EMPTY CONDUIT/RACEWAY. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING.
- COLOR FOR RECEPTACLES, SWITCHES, NETWORK DEVICES AND COVER PLATES SHALL MATCH. COLOR SHALL MATCH AND BE SELECTED AS BRIGHT WHITE UNLESS NOTED OTHERWISE. CONFIRM EXACT COLOR WITH ARCHITECT PRIOR TO ORDERING MATERIAL.
- ALL EXTERIOR PENETRATIONS SHALL BE SEALED WEATHER TIGHT.
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL AND STATE CODES.
- ALL MATERIAL, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITER'S LABORATORIES, INC., AND THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.
- ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR. DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE ONLY THE GENERAL ARRANGEMENT. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, DO NOT SCALE PLANS.
- ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY THE OWNER.
- ELECTRICAL CONTRACTOR SHALL MAKE ALL ELECTRICAL POWER CONNECTIONS TO HVAC, PLUMBING AND OTHER EQUIPMENT AS REQUIRED.
- A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.
- ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- CONDUCTORS SHALL BE COPPER RATED AT NOT LESS THAN 600 VOLTS. MINIMUM SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID, UNLESS OTHERWISE NOTED. BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE THHN/THWN OR XHHW AS REQ'D.
- ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH NEC. TYPE MC CABLE IS THE PREFERRED WIRING METHOD, USE EMT WHERE MC IS PROHIBITED. USE RIGID STEEL CONDUIT WHERE EXPOSED OUTDOORS, USE LIQUID TIGHT FMC FOR ALL CONNECTIONS TO MOTORS AND CONDENSING UNITS. MINIMUM CONDUIT SIZE TO BE 3/4". EC TO RUN ALL ELECTRICAL OVERHEAD IN A NEAT AND ORGANIZED FASHION.
- PROVIDE A PULLWIRE IN ALL EMPTY CONDUITS.
- PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES, WHITE LETTERS ON BLACK BACKGROUND.
- FUSES 0 – 600 AMPS SHALL BE UL CLASS "RK-1" LOW PEAK DUAL ELEMENT TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMANN, UNLESS NOTED OTHERWISE.
- ALL TERMINALS/LUGS SHALL BE 75° RATED. ALL TERMINALS, SPLICING CONNECTORS, LUGS, ETC SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (CU/AL) OF THE CONDUCTOR AND SHALL BE PROPERLY INSTALLED.
- VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION OF INCOMING ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO PROJECT START-UP. NOTIFY ENGINEER OF ANY CHANGES AS MAY BE REQUIRED.
- ALL ELECTRICAL DEVICES (SWITCHES AND OUTLETS) SHALL BE "WHITE" WITH WHITE NYLON UNBREAKABLE WALL COVER PLATES EXCEPT THAT IG OUTLETS SHALL BE "ORANGE".
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ELECTRICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.).
- DRAWINGS ARE DESIGNED FOR THE MANUFACTURER'S MATERIALS, EQUIPMENT OR SERVICES NAMED ON PLANS. ANY CHANGES AND ASSOCIATED COSTS REQUIRED TO ACCOMODATE OTHER APPROVED EQUIVALENT MATERIAL OR EQUIPMENT AS WELL AS SPACE REQUIREMENTS FOR THE OTHER APPROVED EQUIVALENT MATERIAL OR EQUIPMENT MUST BE ASSUMED BY THE CONTRACTOR.
- PENETRATIONS OF REQUIRED SMOKE PARTITIONS SHALL BE SEALED USING METHODS APPROVED UNDER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO INSURE THAT THIS SMOKE STOPPING IS ACCOMPLISHED.
- WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, TELEVISION, OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, THE OPENING AROUND THE RACEWAY SHALL BE FIRE STOPPED PER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO INSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED. USE APPROVED U.L. OR EQUIVALENT ASSEMBLIES.
- IN REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. COORDINATE CLOSELY WITH THE GENERAL CONTRACTOR TO INSURE THAT THE INTEGRITY OF THE U.L. RATING IS MAINTAINED.
- WHERE A HOME RUN IS SHOWN THE CIRCUIT SHALL BE INSTALLED IN A DEDICATED CONDUIT, DO NOT COMBINE WITH OTHER CIRCUITS. WHERE A CIRCUIT HOMERUN IS NOT SHOWN, THE CONTRACTOR SHALL COMBINE CIRCUITS AS FOLLOWS: A MAXIMUM OF THREE 20A BRANCH CIRCUITS MAY BE COMBINED IN A COMMON HOMERUN WITH SEPARATE NEUTRALS FOR A MAXIMUM TOTAL OF SIX CURRENT CARRYING CONDUCTORS. ALL BRANCH CIRCUITS LARGER THAN 20A SHALL BE SEPARATELY HOMERUN TO THE PANEL.
- EACH DISCONNECT SHALL BE EQUIPPED WITH A GROUND BAR.
- PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR WITH ALL FEEDER AND BRANCH CIRCUITS.
- DEVICE HEIGHTS INDICATED ARE TO THE CENTER OF THE DEVICE OR EQUIPMENT UNLESS NOTED OTHERWISE. RECEPTACLE AND DATA/TELEPHONE OUTLETS SHOWN ADJACENT ON DRAWINGS SHALL BE MOUNTED 6" APART ON CENTER HORIZONTALLY.
- COORDINATE ALL DEVICES AND OUTLETS ABOVE OR BELOW WITH CASEWORK INSTALLATION AND FDS IN ORDER TO POSITION AT THE PROPER LOCATION AND HEIGHT.
- ALL EXTERIOR FIXTURES AND DEVICES SHALL BE RATED FOR OPERATION AT 0° AND SHALL BE DAMP OR WET LABELED AS REQUIRED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. IN ACCORDANCE WITH LOCAL SEISMIC CODE REQUIREMENTS. PROVIDE SEISMIC RESTRAINTS, ACCESSORIES AND INSTALLATION DETAIL AS REQUIRED.
- THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL DETAILS OF THE WORK AND WORKING CONDITIONS. VERIFY ALL FIELD CONDITIONS INCLUDING LOCATION OF UTILITY LINES, STRUCTURES AND ADVISE THE ENGINEER OF ANY DISCREPANCY THAT MAY PREVENT OR HINDER THE SPECIFIED WORK FROM BEING COMPLETED.
- THE CONTRACTOR SHALL STUDY THE STRUCTURE AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE THE WORK ACCORDINGLY. THE CONTRACTOR SHALL PROVIDE ALL ACCESSORIES, HANGERS, AND ANCHORS AS NECESSARY TO MEET SUCH CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER.
- PRIOR TO ACCOMPLISHING ANY WORK IN ANY AREA, ALL WORK SHALL BE PLANNED AND COORDINATED WITH OTHER TRADES AND THE OWNER. THE CONDUIT ROUTING SHALL BE COORDINATED WITH DUCTWORK AND OTHER OBSTACLES SO AS TO PROVIDE THE MOST EFFICIENT AND AESTHETICALLY PLEASING INSTALLATIONS.
- PROPERLY SUPPORT ALL WORK AND EQUIPMENT INSTALLED UNDER THIS CONTRACT. STUDY ALL DRAWINGS, MANUFACTURER'S INSTRUCTIONS, AND CATALOG DATA TO DETERMINE HOW EQUIPMENT ACCESSORIES, AND RELATED ITEMS ARE TO BE SUPPORTED, MOUNTED OR SUSPENDED. PROVIDE ALL BOLTS, INSERTS, BRACKETS, STRUCTURAL SUPPORTS, AND ACCESSORIES FOR PROPER SUPPORT OF EQUIPMENT BEING FURNISHED UNDER THIS CONTRACT.

ELECTRICAL RISER NOTES:

A. FAMILY DOLLAR REQUIRES MINIMUM 600A, 208Y/120V, 3PH, 4 WIRE ELECTRICAL SERVICE TO BUILDING. A LARGER SERVICE MAY BE REQUIRED IF HVAC UNITS WITH ELECTRIC HEAT OR HEAT PUMPS WITH SUPPLEMENTAL ELECTRIC HEAT ARE USED. SERVICE LOAD CALCULATIONS AND PANEL LOAD CALCULATIONS SHALL INCLUDE A FUTURE REFRIGERATION LOAD OF 30KW. ALTERNATE SERVICE VOLTAGES AND/OR PHASE REQUIRE PRIOR WRITTEN APPROVAL FROM FAMILY DOLLAR PRIOR TO BEGINNING CONSTRUCTION AND WILL NOT BE ACCEPTED OTHERWISE.

B. PANELS A & B SHALL BE 54 CIRCUITS. PANELS WITH SMALLER NUMBER OF CIRCUITS WILL NOT BE ACCEPTED BY FAMILY DOLLAR. ALTERNATE PANEL DESIGN REQUIRES PRIOR WRITTEN APPROVAL FROM FAMILY DOLLAR PRIOR TO BEGINNING CONSTRUCTION AND WILL NOT BE ACCEPTED OTHERWISE.

C. CONTRACTOR SHALL PROVIDE #6 CU GROUND TO SERVICE GROUND BAR (7 TERMINALS) AS REQUIRED FOR GROUNDING OF COMMUNICATION EQUIPMENT. PROVIDE 10' LOOP OF #6 GROUND WIRE TERMINATED WITH LUG. NETWORK INTERFACE DEVICE (DEMARC) WITH TEST PLUGS SHALL BE INSTALLED INSIDE MOUNTED AT THE COMMUNICATION BOARD. DO NOT INSTALL ON EXTERIOR OF BUILDING.

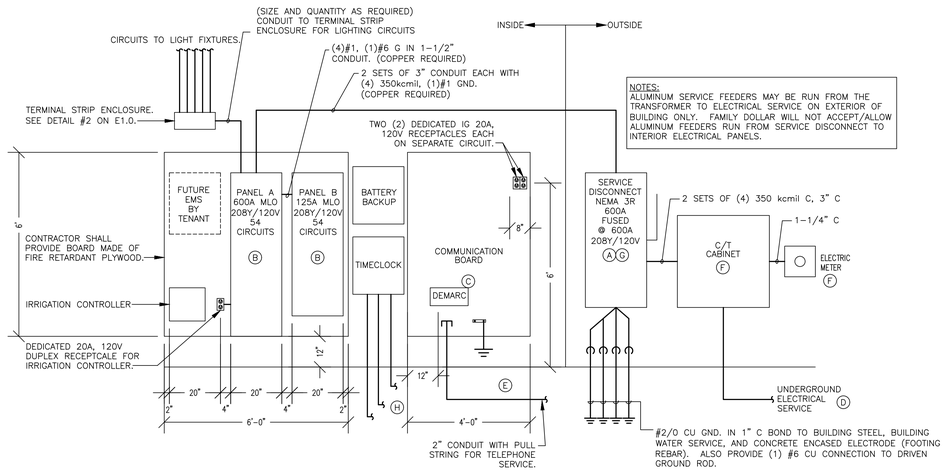
D. CONTRACTOR SHALL CONFIRM WITH UTILITY IF SERVICE TRANSFORMER IS POLE MOUNTED OR PAD MOUNTED PRIOR TO ANY INSTALLATION. CONTRACTOR SHALL CONFIRM WITH UTILITY IF PAD IS TO BE PROVIDED BY CONTRACTOR AS WELL AS LOCATION REQUIRED IF SERVICE IS FROM A PAD MOUNTED TRANSFORMER. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY IF UTILITY CONDUIT IS REQUIRED TO EXTEND 4" TO PROPERTY LINE. IT IS ASSUMED UTILITY WILL SERVE PROJECT WITH A 112.5 OR 150KVA TRANSFORMER MAXIMUM. WITH THIS ASSUMPTION FAULT CURRENT AT THE UTILITY TRANSFORMER LUGS WILL BE APPROXIMATELY 20,645A.

E. CONTRACTOR SHALL COORDINATE WITH TELECOMMUNICATION SERVICE IF TELECOM CONDUIT SHALL RUN TO PROPERTY LINE.

F. SIZE METER AND CT CABINET PER UTILITY REQUIREMENTS.

G. SERVICE DISCONNECT SHALL BE SERVICE ENTRANCE RATED AND LOCKABLE.

H. PROVIDE (1) 1" CONDUIT FOR SITE LIGHTING, (1) 1" CONDUIT FOR MONUMENT SIGN AND (1) 1" CONDUIT FOR SPARE. (STUB UP AND CAP ON EXTERIOR SIDE OF BUILDING ABOVE SLAB.) PROVIDE WITH PULL STRING.



1 ELECTRICAL RISER DIAGRAM
DIAGRAMMATIC ONLY

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05/16/2023
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LICENSE #: 062-072160
THOMAS J ELLIS JR EXP. 11/30/2023

The record copy of this drawing is on file at the offices of h|d Architecture, LLC

COMMERCIAL LOAD SUMMARY

BUILDING AREA: 10,500 SQ. FT VOLTAGE: 208Y/120V, 3PH, 4W

LOAD DESCRIPTION		CONNECTED LOAD (VA)		DEMAND FACTOR		DEMAND LOAD (VA)
LIGHTING						
	INTERIOR LIGHTING	5,276	x	125%	=	0
	EXTERIOR LIGHTING	985	x	125%	=	1,231
	SIGNAGE	2,400	x	125%	=	3,000
	MINIMUM GENERAL LIGHTING PER NEC-220 x 125%					24,938
	MINIMUM TRACK LIGHTING/SHOW WINDOW PER NEC-220 x 125%					0
POWER & HVAC						
	EXISTING	0	x	100%	=	0
	RECEPTACLES	4,940	x	100%;50%	=	4,940
	MISCELLANEOUS EQUIPMENT	4,960	x	100%	=	4,960
	REFRIGERATION EQUIPMENT	29,988	x	100%	=	29,988
	KITCHEN	0	x	100%	=	0
	HVAC - SUMMER	54,414	x	100%	=	54,414
	HVAC - WINTER	0	x	100%	=	0
	SUPP. ELECTRIC HEAT	0	x	100%	=	0
	MOTORS	2,160	x	100%	=	2,160
	LARGEST MOTOR	0	x	25%	=	0
	SUB-TOTAL (VA)	105,123		SUB-TOTAL (VA)		125,631
	SUB-TOTAL (AMPS)	292		SUB-TOTAL (AMPS)		349
				SERVICE SIZE (AMPS)		600
				SPARE CAPACITY (AMPS)		251

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER & MODEL #	DESCRIPTION	VOLTS	WATTS	MINIMUM LUMEN OUTPUT	NUMBER AND TYPE OF LAMPS	COLOR TEMP	DIMMABLE	FINISH	MOUNTING	SCHEDULE NOTES	NOTES
A1	STANDARD INDUSTRIAL STRIP BY LSI, HE WILLIAMS, LITHONIA OR EQUAL	8'-0" STRIP LIGHT	120	36	2200/LAMP	(2) 18W LED LINEAR T8 TUBES	4000	0-10V / 10%	WHITE	SUSPENDED	INTERIOR/EXTERIOR STRIP.	A,B,C,D,E,F
A1EM	STANDARD INDUSTRIAL STRIP BY LSI, HE WILLIAMS, LITHONIA OR EQUAL WITH BATTERY BACKUP	8'-0" STRIP LIGHT (EMERGENCY LIGHT)	120	36	2200/LAMP	(2) 18W LED LINEAR T8 TUBES	4000	0-10V / 10%	WHITE	SUSPENDED	INTERIOR/EXTERIOR STRIP. PROVIDE WITH INTEGRAL 90 MINUTE BATTERY BACKUP	A,B,C,D,E,F
A2	STANDARD INDUSTRIAL STRIP BY LSI, HE WILLIAMS, LITHONIA OR EQUAL	4'-0" STRIP LIGHT	120	18	2200/LAMP	(1) 18W LED LINEAR T8 TUBES	4000	0-10V / 10%	WHITE	SUSPENDED	INTERIOR/EXTERIOR STRIP	A,B,C,D,E,F
A2EM	STANDARD INDUSTRIAL STRIP BY LSI, HE WILLIAMS, LITHONIA OR EQUAL WITH BATTERY BACKUP	4'-0" STRIP LIGHT (EMERGENCY LIGHT)	120	36	2200/LAMP	(2) 18W LED LINEAR T8 TUBES	4000	0-10V / 10%	WHITE	SUSPENDED	EMERGENCY LIGHT WITH INTEGRAL 90 MINUTE BATTERY BACKUP	A,B,C,D,E,F
EMR	SURELITES SRP60D OR EQUAL	EMERGENCY LIGHT (EXTERIOR)	120	2.5	500	INTEGRAL LEDS	4000	0-10V / 10%	WHITE	SURFACE	EXTERIOR EMERGENCY LIGHT REMOTE HEADS CONNECT TO EXIT SIGN HI-OUTPUT BATTERY BACKUP.	A,B,D
EM	SURELITES AP2SQLED OR EQUAL	EMERGENCY LIGHT (INTERIOR)	120	2	-	INTEGRAL LEDS	4000	0-10V / 10%	WHITE	SURFACE	INTERIOR EMERGENCY LIGHT (2 HEADS) WITH INTEGRAL 90 MINUTE BATTERY BACKUP	A,B,D
SL1	LSI SLM-LED-24L-SIL-FT-40-70CRI OR EQUAL	POLE MOUNTED LIGHT FIXTURE	UNV	189	24,000	INTEGRAL LEDS	4000	0-10V / 10%	DARK BRONZE	POLE	PROVIDE WITH 20'-0" STEEL SQUARE POLE.	A,B,D
WP	HE WILLIAMS WPCS LED FULL CUTOFF WALL PACK WPCS-L44-8-40-BZ-PC-UNV OR EQUAL	EXTERIOR WALL PACK	120	42	4400	INTEGRAL LEDS	4000	0-10V / 10%	DARK BRONZE	WALL	STANDARD FULL CUT OFF WALL PACK.	A,B,D,G
WPHL	HE WILLIAMS WPCL LED FULL CUTOFF WALL PACK WPCL-L97-8-40-BZ-UNV OR EQUAL	EXTERIOR WALL PACK	120	93	9700	INTEGRAL LEDS	4000	0-10V / 10%	DARK BRONZE	WALL	HIGH LUMEN FULL CUT OFF WALL PACK.	A,B,D,G,H
WS	LSI LED PATRIOT XPWS3-WT-LED-48-350-NW-UE	EXTERIOR BUILDING MOUNTED FIXTURE	120	55	4800	INTEGRAL LEDS	4000	0-10V / 10%	DARK BRONZE	WALL	-	A,B,D,G
WSEM	LSI LED PATRIOT XPWS3-WT-LED-48-350-NW-UE-BB	EXTERIOR BUILDING MOUNTED FIXTURE	120	55	4800	INTEGRAL LEDS	4000	0-10V / 10%	DARK BRONZE	WALL	EXTERIOR BUILDING MOUNTED FIXTURE WITH INTEGRAL 90 MINUTE BATTERY BACKUP	A,B,D,G
X1	SURELITES APC OR EQUAL	EXIT LIGHT	120	5	-	INTEGRAL LEDS	4000	0-10V / 10%	WHITE	CEILING	LED SINGLE-FACE EXIT SIGN W/ 90 MINUTE EMERGENCY BATTERY BACKUP	A,B,D
X1R	SURELITES APCH OR EQUAL	EXIT LIGHT	120	5	-	INTEGRAL LEDS	4000	0-10V / 10%	WHITE	CEILING	EXIT SIGN WITH SINGLE FACE WITH INTEGRAL 90 MINUTE HI-OUTPUT BATTERY BACKUP. CONNECT TO EXTERIOR REMOTE HEADS.	A,B,D

LIGHT FIXTURE SCHEDULE NOTES:
A ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LED LAMPS.
B. CONTRACTOR SHALL COORDINATE VOLTAGE OF LIGHT FIXTURE WITH CIRCUIT VOLTAGE.
C. LIGHT FIXTURES DENOTED BY "NIGHT LIGHT" OR "NL" SHALL REMAIN ON 24/7.
D CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORT HARDWARE AND ADAPTERS FOR EACH LIGHT FIXTURE UNLESS NOTED OTHERWISE.
E. COORDINATE LIGHT FIXTURE MOUNTING WITH CEILING TYPE. REFER TO ARCHITECTURAL PLANS.
F. LIGHT FIXTURES IN SALES AREA SHALL BE SURFACE MOUNTED TO BOTTOM OF LAY-IN CEILING AT 11'-10". LIGHT FIXTURES IN THE STOCK ROOM SHALL BE SUSPENDED FROM STRUCTURE USING CADDY SPEED LINK. PENTAIR CADDY SPEED LINK UNIVERSAL SUPPORT SYSTEM INCLUDES LOCKING DEVICE, WIRE ROPE AND SPECIALTY END FITTING. CADDY SPEED LINK SUPPORT SYSTEM SHALL BE FURNISHED WITH LIGHT FIXTURES. FOR STOCK ROOM, SUSPEND BOTTOM OF LIGHT FIXTURE TO 10'-0" A.F.F. FOR RESTROOMS, OFFICE AND HALL, LIGHT FIXTURES SHALL BE SURFACE MOUNTED TO BOTTOM OF CEILING. FOR LIGHT FIXTURES SURFACE MOUNTED TO LAY-IN CEILING, ATTACH LIGHT FIXTURE TO T-BAR PER NEC 410-36.
G COORDINATE LIGHT FIXTURE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS PRIOR TO INSTALL.
H WALL PACK SHALL BE INSTALLED BETWEEN RECEIVING DOOR AND BACK SALES DOOR ONLY. (UNO)

PANELBOARD A

BUS AMPS: 600A | LOCATION: ELECTRICAL ROOM | GROUND BUS: YES
MAIN SIZE / TYPE: MLO | NEMA RATING: NEMA 1 | ISOL. GROUND BUS: NO
VOLTS/PHASE: 208Y/120V, 3PH, 4W | AFC VALUE: TBD | FEED THRU LUGS: NO
MOUNTING: SURFACE | AIC RATING: 65,000 | SECTIONS: 1 OF 1

CKT #	CIRCUIT DESCRIPTION	BREAKER AMPS	P	WIRE SIZE	NOTES	LOAD (VA)	CONNECTED PER PHASE (VA) A	B	C	LOAD (VA)	NOTES	WIRE SIZE	BREAKER P	AMPS	CIRCUIT DESCRIPTION	CKT #
1						4,605	5,805			1,200	BL, #1		2	15	REACH-IN COOLER (FUTURE)	2
3	PANEL B	125	3	O.L.		3,690		4,890		1,200						4
5						4,780			5,980	1,200	BL, #1		2	15	REACH-IN COOLER (FUTURE)	6
7						2,883	4,083			1,200						8
9	RTU-1	30	3	#10	#2	2,883		4,083		1,200	BL, #1		2	15	REACH-IN COOLER (FUTURE)	10
11						2,883			4,083	1,200						12
13						4,685	7,355			2,670	BL, #1		2	40	REACH-IN FREEZER (FUTURE)	14
15	RTU-2	50	3	#8	#2	4,685		7,355		2,670						16
17						4,685			7,355	2,670	BL, #1		2	40	REACH-IN FREEZER (FUTURE)	18
19						4,685	7,355			2,670						20
21	RTU-3	50	3	#8	#2	4,685		7,355		2,670	BL, #1		2	40	REACH-IN FREEZER (FUTURE)	22
23						4,685			7,355	2,670						24
25						5,885	8,555			2,670	BL, #1		2	40	REACH-IN FREEZER (FUTURE)	26
27	RTU-4	60	3	#6	#2	5,885		8,555		2,670						28
29						5,885			5,885	0			1	20	SPARE	30
31	SPARE	20	1			0	0			0						32
33	SPARE	20	1			0		0		0	BL		3	20	SPARE (RESERVED FOR FUTURE EMS PHASE MONITOR)	34
35	SPARE	20	1			0			0	0						36
37	LTS - RR'S/OFFICE EF-1 / EF-2	20	1	#12	TS	268	268			0	BL		1	20	RESERVED FOR FUTURE EMS	38
39	LTS - SALES (EVEN ROWS)	20	1	#12	TS	600		600		0			1	20	SPARE	40
41	LTS - SALES (EVEN ROWS)	20	1	#12	TS	600			1,800	1,200	TS	#8	1	20	BUILDING SIGN	42
43	LTS - SALES (EVEN ROWS)	20	1	#12	TS	600	1,800			1,200	TS	#4	1	20	PYLON SIGN	44
45	LTS - STOCK	20	1	#12	TS	198		994		796	TS	#10	1	20	EXT. LIGHTS BLDG	46
47	LTS - SALES (ODD ROWS)	20	1	#12	TS	744			933	189	TS	#12	1	20	SITE LIGHTING	48
49	LTS - SALES (ODD ROWS)	20	1	#12	TS	744	744			0			1	20	RESERVED FOR ADD. LTG	50
51	LTS - SALES (ODD ROWS)	20	1	#12	TS	744		744		0			1	20	RESERVED FOR ADD. LTG	52
53	LTS - NL/EXIT/EMERG.	20	1	#12	BL,TS	938			938	0			1	20	RESERVED FOR ADD. LTG	54
						PER PHASE SUB-TOTALS	35,965	34,576	34,329	LEGEND:						

PANEL BUS BARS SHALL BE ALUMINUM
TOTAL CONNECTED PANELBOARD (VA) 104,870
TOTAL CONNECTED PANELBOARD (AMPS) 291
TOTAL PANELBOARD DEMAND (VA) 107,035
TOTAL PANELBOARD DEMAND (AMPS) 297

TS - VIA TERMINAL STRIP (TEMP.) TO EMS (IN FUTURE)
GF - GROUND FAULT INTERRUPTER IG - ISOLATED GROUND
BL - BREAKER LOCKING DEVICE OL - RE: ONE-LINE DIAGRAM

PANEL SCHEDULE NOTES:
#1. PROVIDE CIRCUIT BREAKERS ONLY FOR FUTURE REFRIGERATION EQUIPMENT BY TENANT.
#2. COORDINATE BREAKER AND WIRE SIZING REQUIREMENTS WITH MECHANICAL DRAWINGS

PANELBOARD B

BUS AMPS: 125A | LOCATION: ELECTRICAL ROOM | GROUND BUS: YES
MAIN SIZE / TYPE: MLO | NEMA RATING: NEMA 1 | ISOL. GROUND BUS: YES
VOLTS/PHASE: 208Y/120V, 3PH, 4W | AFC VALUE: TBD | FEED THRU LUGS: NO
MOUNTING: SURFACE | AIC RATING: 22K | SECTIONS: 1 OF 1

CKT #	CIRCUIT DESCRIPTION	BREAKER AMPS	P	WIRE SIZE	NOTES	LOAD (VA)	CONNECTED PER PHASE (VA) A	B	C	LOAD (VA)	NOTES	WIRE SIZE	BREAKER P	AMPS	CIRCUIT DESCRIPTION	CKT #
1	RECPT - EXT.	20	1	#12		180	380			200	BL,IG	#12	1	20	RECPT - COMM BOARD	2
3	RECPT - EXT.	20	1	#12		180		380		200	BL,IG	#12	1	20	RECPT - COMM BOARD	4
5	RECPT - RTU UNITS	20	1	#12	GF,WP	720			1,120	400	BL	#12	1	20	CHECKOUT STATION #1 POS	6
7	RECPT - IRRIGATION	20	1	#12	GF,WP	200	600			400	BL	#12	1	20	CHECKOUT STATION #2 POS	8
9	CHECKOUT STATION (DIRTY #1)	20	1	#12		400		800		400	BL	#12	1	20	CHECKOUT STATION #3 POS	10
11	CHECKOUT STATION (DIRTY #2)	20	1	#12		400			600	200	BL,IG	#12	1	20	RECPT - FUTURE EAS	12
13	CHECKOUT STATION (DIRTY #3)	20	1	#12		400	600			200	BL,IG	#12	1	20	RECPT - FUTURE ATM	14
15	RECPT - FUTURE MONITOR	20	1	#12		180		360		180	IG	#12	1	20	RECPT - OFFICE	16
17	RECPT - BREAK AREA	20	1	#12		180			360	180	IG	#12	1	20	RECPT - OFFICE	18
19	RECPT - BREAK AREA	20	1	#12		180	360			180	IG	#12	1	20	RECPT - OFFICE	20
21	RECPT - STOCK ROOM	20	1	#12		180		360		180	IG	#12	1	20	RECPT - OFFICE PLUG MOLD	22
23	RECPT - WINDOW	20	1	#12		360			540	180	IG	#12	1	20	RECPT - OFFICE PLUG MOLD	24
25	RECPT - SALES	20	1	#12		540	1,140			600	GF	#12	1	20	RECPT - DRINKING FOUNTAIN	26
27	RECPT - SALES	20	1	#12		540		790		250		#12	1	20	RECPT - FUTURE SAFE	28
29	J-BOX - FUTURE SNACK-WRAP	20	1	#12		400			850	450		#12	1	20	PLUG MOLD DESK AREA	30
31	AIR CURTAIN 'AIR-1'	20	1	#12		525	525			0			1	20	SPARE	32
33	SPARE	20	1			0		0		0			1	20	SPARE	34
35	SPARE	20	1			0			0	0			1	20	SPARE	36
37	SPARE	20	1			0	0			0			1	20	SPARE	38
39	SPARE	20	1			0		0		0			1	20	SPARE	40
41	SPARE	20	1			0			0	0			1	20	SPARE	42
43	SPARE	20	1			0	0			0		#12	1	20	RECPT. - FUTURE ICE CREAM	44
45	SPARE	20	1			0		0		0		#12	1	20	RECPT. - FUTURE INT. ICE	46
47	SPARE	20	1			0			0	0			1	20	SPARE	48
49	FUTURE HAND DRYER	20	1	#12	GF	1,000	1,000			0			1	20	SPARE	50
51	FUTURE HAND DRYER	20	1	#12	GF	1,000		1,000		0			1	20	SPARE	52
53	WATER HEATER	20	1	#12		1,560			1,760	200		#12	1	20	DUCT DETECTORS	54
						PER PHASE SUB-TOTALS	4,605	3,690	5,230							

PANEL BUS BARS SHALL BE ALUMINUM
TOTAL CONNECTED PANELBOARD (VA) 13,525
TOTAL CONNECTED PANELBOARD (AMPS) 38
TOTAL PANELBOARD DEMAND (VA) 13,525
TOTAL PANELBOARD DEMAND (AMPS) 38

LEGEND:
TS - VIA TIME SWITCH ST - SHUNT TRIP
GF - GROUND FAULT INTERRUPTER LCK - LOCKING TAB
BL - BREAKER LOCKING DEVICE IG - ISOLATED GROUND
WP - WEATHER PROTECTED OL - RE: ONE-LINE DIAGRAM

h|d ARCHITECTURE
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THOMAS J ELLIS JR EXP. 11/30/2023

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Revisions

Number	Date	Description

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E4.0
PANELBOARD SCHEDULES AND LIGHT FIXTURE SCHEDULE

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