

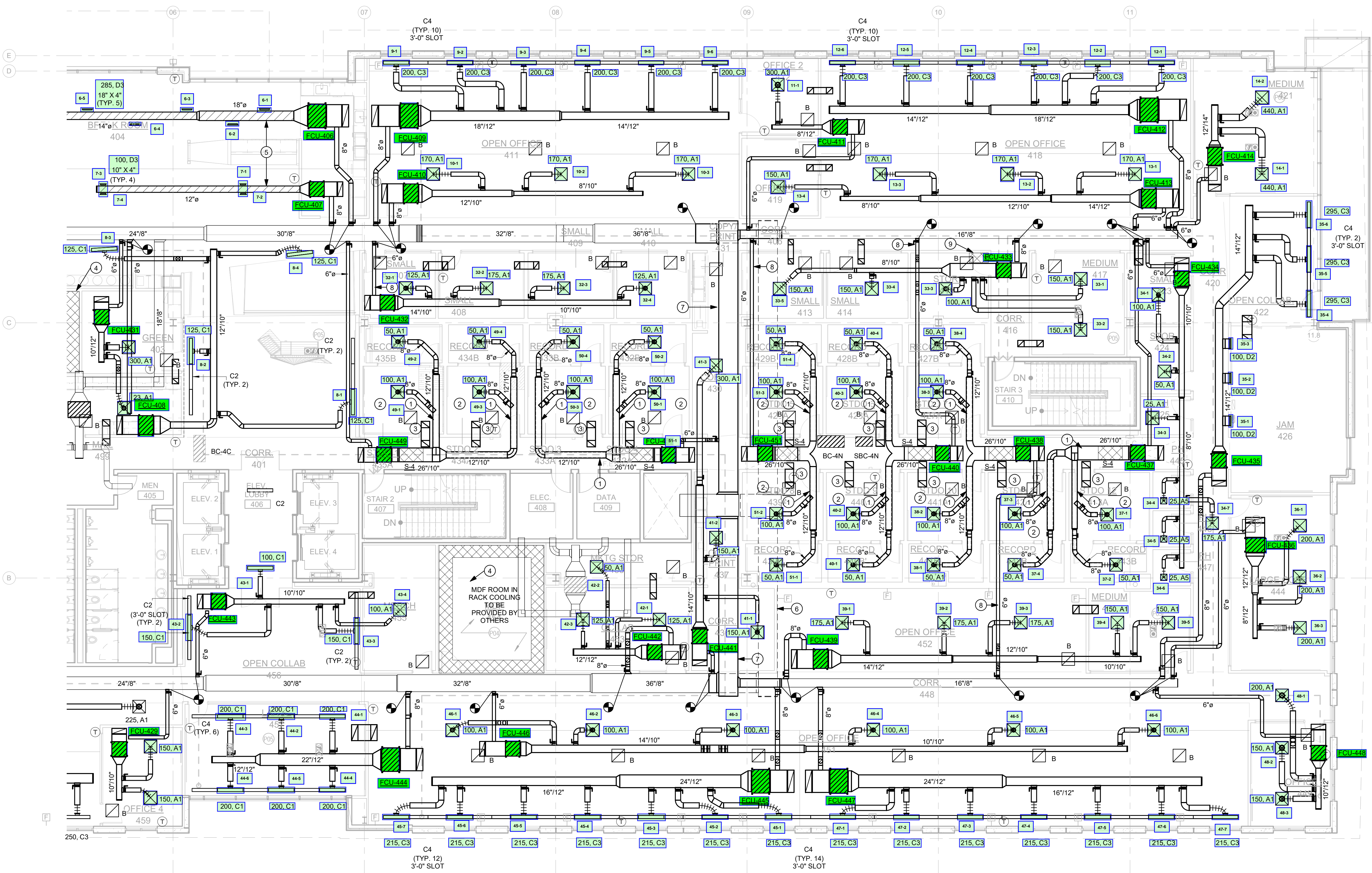
Sony Funimation – Dallas, Texas

Room	Noise Criteria (NC) Limit
Private Office	35
Open-Plan Office	40
Open Collaboration Area	35
Conference/Meeting Room	30
Voice Over Studio Control Room	20
Voice Over Studio (Recording)	15
Quality Control Studio	25
Edit Studio	25
Mix Studio	20
Screening Room	25
Quality Control Lab	25
Break Room	40

General Guidelines for Duct Air Velocities to Mitigated Generated Noise
 Sony Funimation – Dallas, Texas

Noise Criteria (NC)	Duct Air Velocity (fpm)							
	@ Terminal		Within 10 feet		Within 20 feet		Within 30 feet	
	Rect. Duct	Rnd. Duct	Rect. Duct	Rnd. Duct	Rect. Duct	Rnd. Duct	Rect. Duct	Rnd. Duct
NC-15 (Supply)	250	425	300	500	350	600	425	725
NC-15 (Return)	300	500	350	600	425	725	500	850
NC-20 (Supply)	300	500	350	600	425	725	550	950
NC-20 (Return)	350	600	425	725	500	850	650	1,100
NC-25 (Supply)	350	600	425	725	550	925	700	1,200
NC-25 (Return)	425	725	500	850	650	1,100	800	1,350
NC-30 (Supply)	425	725	500	850	700	1,200	850	1,450
NC-30 (Return)	500	850	600	1,025	800	1,350	950	1,625
NC-35 (Supply)	500	850	600	1,025	800	1,350	1,000	1,700
NC-35 (Return)	600	1,025	700	1,200	900	1,550	1,150	2,000
NC-40 (Supply)	550	950	625	1,075	900	1,550	1,250	2,125
NC-40 (Return)	650	1,100	750	1,275	1,000	1,700	1,350	2,300

- KEYED NOTES M02-04A**
- SUPPLY DUCT TO BE INTERNALLY LINED FOR SOUND MITIGATION.
 - DUCT WORK OVER SIZED TO REDUCE AIRSPEED AND NOISE. SEE CHART ON THIS SHEET REGARDING MAX AIR VELOCITIES AND NOISE CRITERIA
 - LINED TRANSFER AIR DUCT FOR RETURN AIR PATH.
 - NO DUCT WORK, OR PIPING TO BE ROUTED ABOVE IDF ROOM.
 - PROVIDE INTERNALLY LINED SPIRAL DUCT. TO BE PAINTED PER ARCHITECTURAL REQUIREMENTS.
 - EXISTING OA DUCT TO BE REMOVED AND SHIFTED PLAN WEST OUT OF RECORDING STUDIO'S.
 - RELOCATED NEW OA DUCT IN CORRIDOR.
 - PROVIDE ACOUSTICAL DUCT LAGGING (1"PSF) FOR OA SUPPLY DUCT THROUGH RECORDING STUDIO. LAGGING SHALL BE PROVIDED FOR ENTIRE BRANCH LENGTH FROM TAP TO FCU RETURN CONNECTION.
 - NO DUCT WORK, OR PIPING TO BE ROUTED ABOVE ELECTRICAL PANEL LOCATED IN WALL.



ISSUES

1	09/04/2020	PRICING SET
2	11/06/2020	ISSUE FOR CONSTRUCTION
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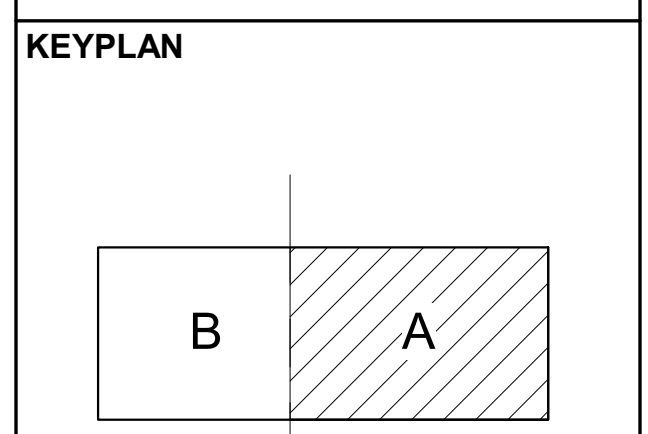
REVISIONS

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SONY FUNIMATION

3501 OLYMPUS BLVD
 CYPRESS WATERS
 IRVING, TX 75019



**LEVEL 4
 MECHANICAL
 PLAN - SEGMENT
 A**

JOB 20093.0000
DATE 11.06.2020
SHEET

M02-04A

11/06/2020 9:11:43 AM M02-04A LEVEL 4 MECHANICAL PLAN - SEGMENT A

Purdy - McGuire
 Mechanical - Electrical Engineers
 1700 North Dallas Parkway
 Suite 2000
 Dallas, TX 75249-1147
 Firm Registration # F-1511
 Tel: 972-258-5357
 Fax: 972-258-9251
 www.purdy-mcguire.com

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 PURDY - MCGUIRE
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 PROJECT NAME: SONY FUNIMATION
 SHEET: M02-04A
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 Sony Funimation - Dallas, Texas

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NC-30 (Return)	500	850	600	1,025	800	1,350	950	1,625
NC-35 (Supply)	500	850	600	1,025	800	1,350	1,000	1,700
NC-35 (Return)	600	1,025	700	1,200	900	1,550	1,150	2,000
NC-40 (Supply)	550	950	625	1,075	900	1,550	1,250	2,125
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KEYED NOTES M02-04B

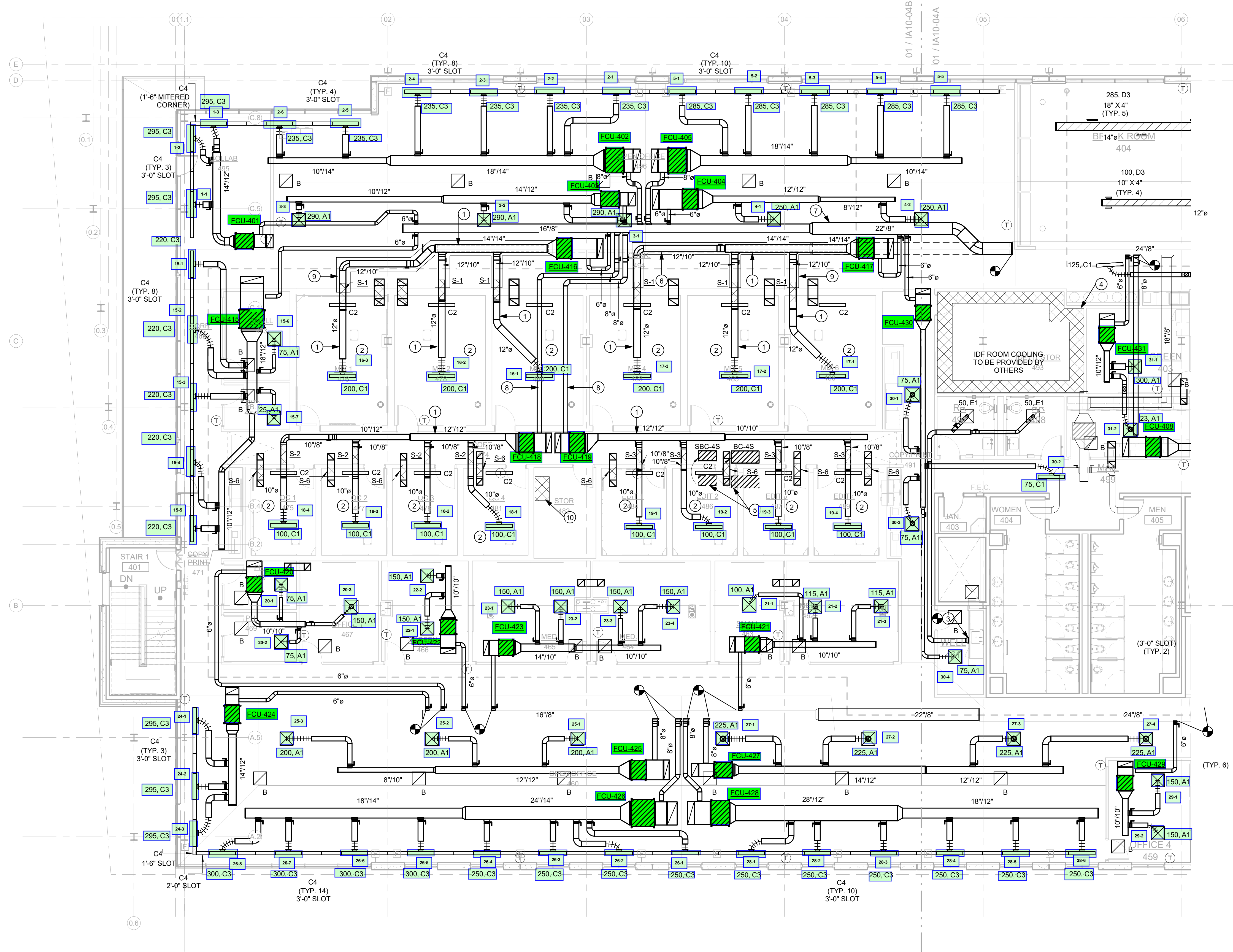
- SUPPLY DUCT TO BE INTERNALLY LINED FOR SOUND MITIGATION.
- DUCT WORK OVER SIZED TO REDUCE AIRSPEED AND NOISE. SEE CHART ON THIS SHEET REGARDING MAX AIR VELOCITIES AND NOISE CRITERIA.
- CONNECT NEW EXHAUST DUCT TO EXISTING SHELL EXHAUST SYSTEM.
- NO DUCT WORK, OR PIPING TO BE ROUTED ABOVE IDF ROOM.
- RELOCATE EXISTING BCU CONTROLLER. REROUTE AND REPIPE REFRIGERANT LINES AS REQUIRED.
- EXISTING OA DUCT TO BE REMOVED AND SHIFTED PLAN NORTH TO MAKE ROOM FOR FCUS.
- NEW OA DUCT WORK.
- PROVIDE ACOUSTICAL DUCT LAGGING (1"PSF) FOR OA SUPPLY DUCT THROUGH RECORDING STUDIO. LAGGING SHALL BE PROVIDED FOR ENTIRE BRANCH LENGTH FROM TAP-TO FCU RETURN CONNECTION.
- PROVIDE ACOUSTICAL DUCT LAGGING (1"PSF) FOR SUPPLY AIR DUCT FROM FAN COIL.
- NO DUCT WORK, OR PIPING TO BE ROUTED ABOVE ELECTRICAL PANEL.

ISSUES

NO.	DATE	DESCRIPTION
1	09/04/2020	PRICING SET
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REVISIONS

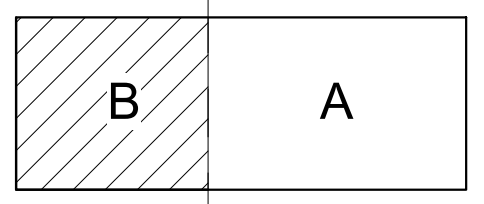
NO.	DATE	DESCRIPTION



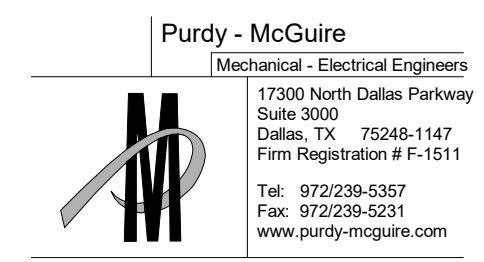
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KEYPLAN



LEVEL 4 MECHANICAL PLAN - SEGMENT B



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