

FINISH FLOOR PLAN, FIRST LEVEL

NEW STEM FACILITY

149 SE COLLEGE PL., LAKE CITY, FL 32025

FLORIDA GATEWAY COLLEGE

BID DOCUMENTS

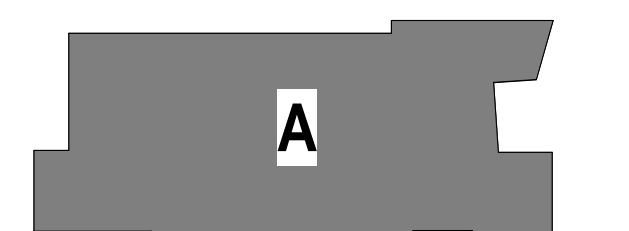
36-17116-00
12/11/2020
Revisions
A003: 1/08/2021

- INTERIOR FINISH PLAN GENERAL NOTES**
- INTERIOR PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
 - NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS. SEE ROOM FINISH SCHEDULE AND ELEVATIONS FOR FLOOR AND WALL FINISHES NOT NOTED.
 - FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
 - FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THAN ONE-HALF OF A TILE AT ROOM PERIMETER.
 - REFER TO A12.0 FOR MATERIAL LIST.
 - REFER TO ELEVATIONS FOR WALL MATERIAL INSTALLATION HEIGHT.

FLOOR FINISH LEGEND

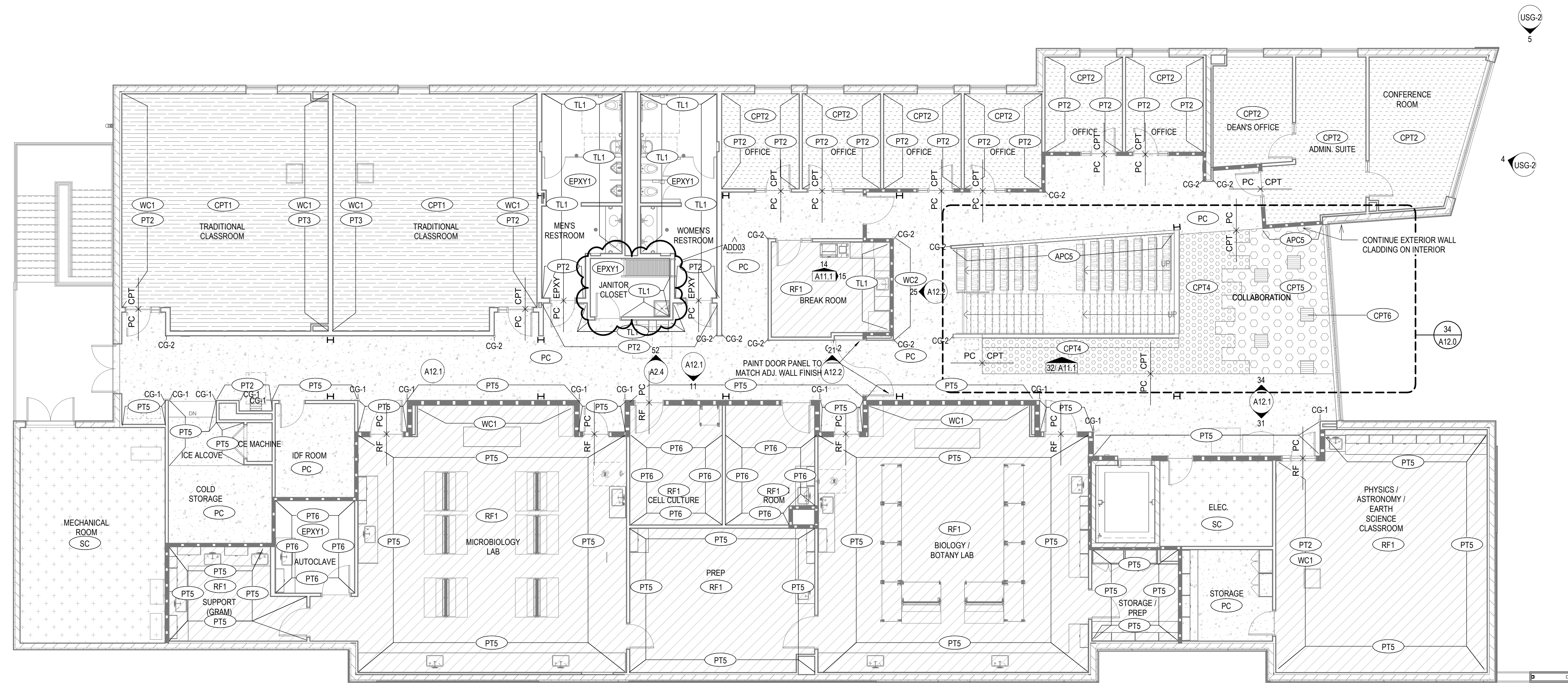
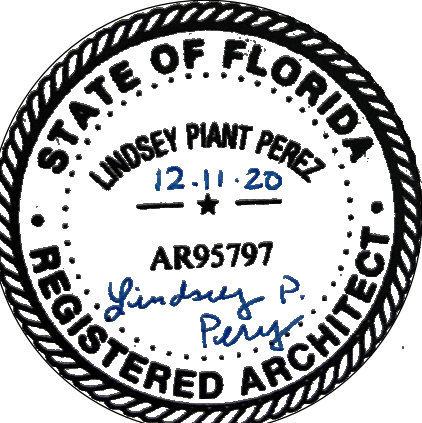
	CPT1		CPT7
	CPT2		RF1
	CPT3		EPXY1
	CPT4		PC
	CPT5		SC
	CPT2		

KEY PLAN



FINISH FLOOR PLAN, FIRST LEVEL

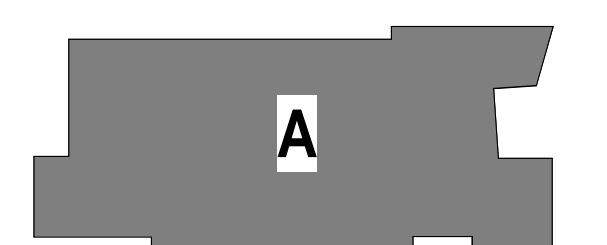




FINISH FLOOR PLAN - SECOND LEVEL

- INTERIOR FINISH PLAN GENERAL NOTES**
- A. INTERIOR PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
 - B. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS. SEE ROOM FINISH SCHEDULE AND ELEVATIONS FOR FLOOR AND WALL FINISHES NOT NOTED.
 - C. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
 - D. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THAN ONE-HALF OF A TILE AT ROOM PERIMETER.
 - E. REFER TO A12.0 FOR MATERIAL LIST.
 - F. REFER TO ELEVATIONS FOR WALL MATERIAL INSTALLATION HEIGHT.

KEY PLAN



NEW STEM FACILITY

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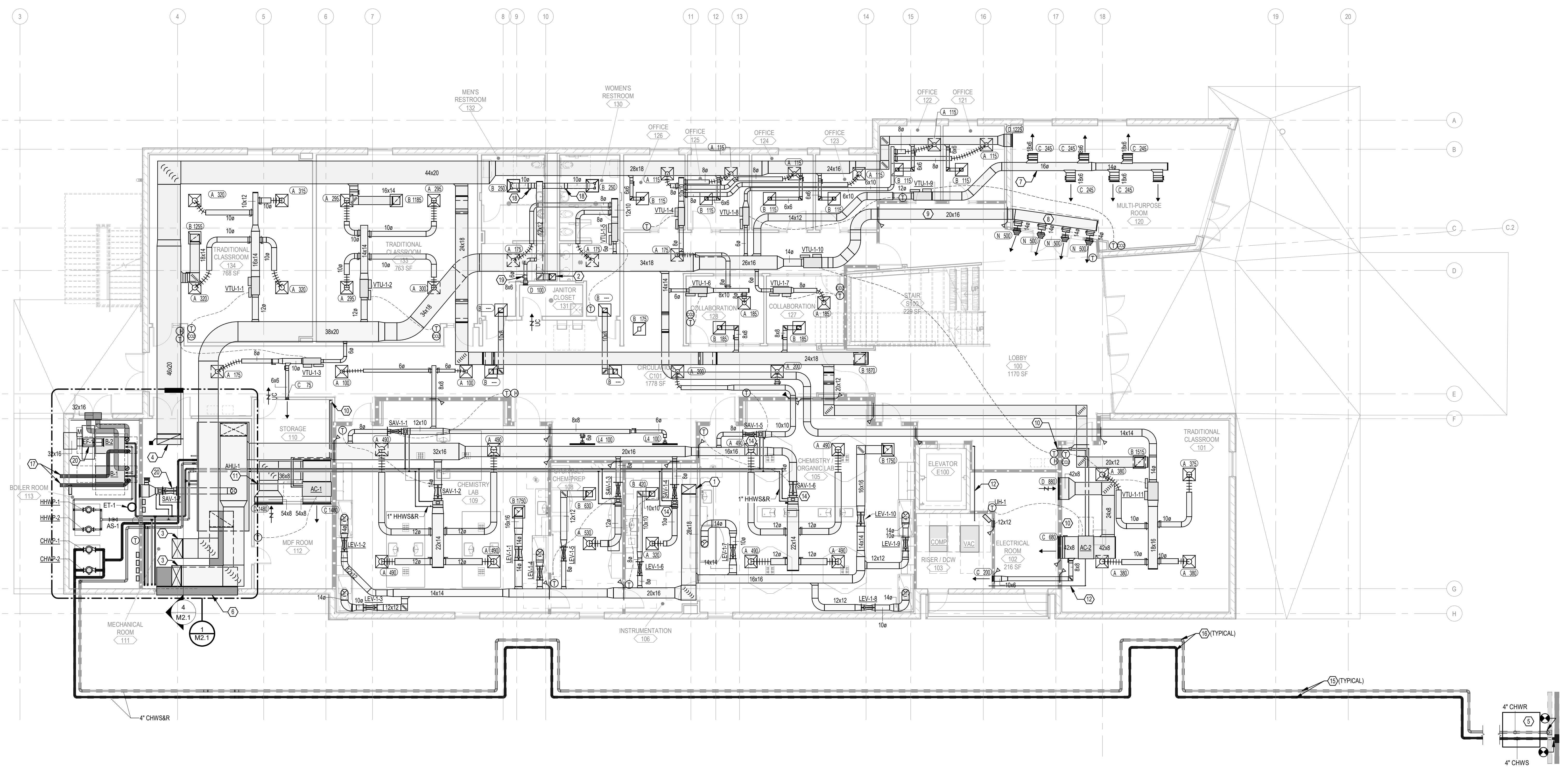
FLORIDA GATEWAY COLLEGE

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12/11/2020
Revisions
ADD03: 1/08/2021

FINISH FLOOR PLAN, SECOND LEVEL

A13.2



1 HVAC FLOOR PLAN - FIRST LEVEL
1/8" = 1'-0"

GENERAL NOTES:

1. ALL HEATING HOT WATER TAKEOFFS TO LAB SUPPLY AIR VALVE HEATING COILS SHALL BE 3/4" HHWS&R PIPING UNLESS NOTED OTHERWISE ON PLANS.
2. PROVIDE DOUBLE WALL DUCTWORK FOR ALL DUCTWORK THAT IS EXPOSED.
3. CONTRACTOR SHALL PROVIDE AN INDEPENDENT FUME HOOD CERTIFICATION COMPANY TO FIELD CERTIFY ALL FUME HOODS IN THE BUILDING. FUME HOOD CERTIFICATION SHALL BE IN ACCORDANCE WITH ANSI/ASHRAE 110 (INCLUDING BUT NOT LIMITED TO: FACE VELOCITY MEASUREMENTS, SMOKE VISUALIZATION, TRACER GAS CONTAINMENT, AIRFLOW MONITOR AND ALARM CALIBRATION). REFER TO FLOOR PLANS AND LAB DRAWINGS FOR FUME HOOD QTY AND LOCATIONS.
4. CONTRACTOR SHALL PROVIDE AN INDEPENDENT LAMINAR FLOW HOOD CERTIFICATION COMPANY TO FIELD CERTIFY ALL LAMINAR HOODS IN THE BUILDING. LAMINAR HOOD CERTIFICATION SHALL BE IN ACCORDANCE WITH NSF/ANSI 49 BY NSF ACCREDITED CERTIFIERS, INCLUDING BUT NOT LIMITED TO: DOWNFLOW VELOCITY TEST, FLOW VELOCITY TEST, AIRFLOW SMOKE PATTERNS TEST, HEPA FILTER LEAK TEST, CABINET INTEGRITY TEST, FACE VELOCITY MEASUREMENTS, SMOKE VISUALIZATION, TRACER GAS CONTAINMENT, AIRFLOW MONITOR AND ALARM CALIBRATION. REFER TO FLOOR PLANS AND LAB DRAWINGS FOR FUME HOOD QTY AND LOCATIONS.
5. CONTRACTOR SHALL PROVIDE AN INDEPENDENT BIOLOGICAL SAFETY CABINET (BSC) CERTIFICATION COMPANY TO FIELD CERTIFY ALL BSCS IN THE BUILDING. CERTIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH NSF/ANSI 49 BY NSF ACCREDITED CERTIFIERS, INCLUDING BUT NOT LIMITED TO: DOWNFLOW VELOCITY TEST, FLOW VELOCITY TEST, AIRFLOW SMOKE PATTERNS TEST, HEPA FILTER LEAK TEST, CABINET INTEGRITY TEST, FACE VELOCITY MEASUREMENTS, SMOKE VISUALIZATION, TRACER GAS CONTAINMENT, AIRFLOW MONITOR AND ALARM CALIBRATION. REFER TO FLOOR PLANS AND LAB DRAWINGS FOR FUME HOOD QTY AND LOCATIONS.

REFERENCED NOTES:

1. LAB EXHAUST DUCTWORK UP TO SECOND LEVEL.
2. 12" X 12" GENERAL EXHAUST DUCTWORK UP TO SECOND LEVEL.
3. SUPPLY AIR DUCTWORK UP TO SECOND LEVEL.
4. RETURN AIR DUCTWORK UP TO SECOND LEVEL.
5. NEW UNDERGROUND CHILLED WATER CONNECTION TO EXISTING UNDERGROUND CAMPUS CHILLED WATER LOOP WITH ISOLATION VALVES AND NEW PRECAST VALVE VAULT. PROVIDE FREEZE PLUGS AND CUT IN NEW FULL SIZE TEE FITTINGS FOR ASSOCIATED NEW TAKEOFF. PROVIDE NEW ISOLATION VALVES AT TAKEOFFS CONSTRUCTED WITH ALL STAINLESS STEEL CONSTRUCTION IN NEW VALVE VAULT. REFER TO VALVE VAULT DETAIL. CONTRACTOR SHALL COORDINATE FINAL VAULT LOCATION WITH EXISTING AND NEW UNDERGROUND UTILITIES. FIELD VERIFY EXISTING CHW MAINS LOCATION AND PIPE ROUTING, AS MAIN LOCATION IS DIAGRAMATIC ONLY.
6. 156" X 66" OUTDOOR AIR INTAKE WALL LOUVER (AMCA 540/550), MIN. 45% FREE AREA.
7. PROVIDE DOUBLE WALL ROUND SPIRAL DUCTWORK WHERE EXPOSED.
8. ROUTE DUCTWORK IN FIRE RATED ARCHITECTURAL SOFFIT.
9. SUPPLY AIR DUCTWORK ROUTED IN ARCHITECTURAL SOFFIT.
10. REFRIGERANT LIQUID AND SUCTION PIPING DOWN FROM ROOF TO ASSOCIATED MECHANICAL EQUIPMENT.
11. CONDENSATE DRAIN PIPING, ROUTE TO HUB DRAIN IN MECHANICAL ROOM. REFER TO PLUMBING FOR EXACT LOCATION OF DRAIN.
12. CONDENSATE DRAIN PIPING, ROUTE TO HUB DRAIN IN DOMESTIC WATER RISER ROOM. REFER TO PLUMBING FOR EXACT LOCATION OF DRAIN.
13. NOT USED.
14. INDICATED LAB SUPPLY VALVE OR VTU SHALL BE PROVIDED WITH A 3-WAY HYDRONIC HOT WATER CONTROL VALVE. REFER TO DETAIL FOR REQUIREMENTS.
15. UNDERGROUND CHILLED WATER PIPING SHALL BE: PRE-ENGINEERED PRE-INSULATED HDPE/HDPE FUSION WELDED CHW SYSTEM RATED FOR THE ANTICIPATED PRESSURE AND TEMPERATURES (MINIMUM 150 PSI RATED OPERATING PRESSURE), POLYPROPYLENE PIPING SYSTEM BY THERMACOR® OR APPROVED EQUAL UNDERGROUND CHILLED WATER PIPING WITH FUSION WELDED HDPE INNER CARRIER PIPE AND FUSION WELDED HDPE OUTER CARRIER. PROVIDE PRE-ENGINEERED PIPING SUBMITTED FOR REVIEW COMMENT. CHILLED WATER PIPING SHALL NOT BE ROUTED BELOW ANY EQUIPMENT AND FINAL COORDINATION/FITTING LAYOUT SHALL BE COORDINATED BY THE CONTRACTOR AND UNDERGROUND UTILITIES, AS ADDITIONAL OFFSETS WILL BE REQUIRED. PROVIDE PRE-ENGINEERED PIPING SUBMITTAL FOR REVIEW COMMENT.
16. PROVIDE EXPANSION LOOPS AND THRUST BLOCKS, AND PIPE ANCHORS IN ACCORDANCE WITH THE PRE-ENGINEERED PIPING MANUFACTURE INSTALLATION GUIDELINES.
17. BOILER FLUE VENT SIDEWALL WALL CAP TERMINATION, PER MANUFACTURERS INSTALLATION GUIDELINES.
18. PROVIDE 10" ROUND CONSTANT VOLUME REGULATOR, BASIS OF DESIGN YOUNG REGULATOR CVR-10M OR EQUIVALENT. SET CONSTANT VOLUME REGULATOR TO 250 CFM.
19. PROVIDE 8" ROUND CONSTANT VOLUME REGULATOR, BASIS OF DESIGN YOUNG REGULATOR CVR-8M OR EQUIVALENT. SET CONSTANT VOLUME REGULATOR TO 100 CFM.

REFERENCED NOTES:

20. BOILER ROOM TEMPERATURE CONTROL ECM EXHAUST FAN IS TO MODULATE TO MAINTAIN SPACE TEMPERATURE COOLING SET-POINT, AND SUPPLY AIR VALVE IS TO FLOW TRACK TO MAINTAIN BOILER SPACE SLIGHTLY POSITIVE AT ALL TIMES DURING ALL TIMES WHEN CALLING FOR COOLING. WHEN SPACE IS CALLING FOR HEATING, SUPPLY AIR VALVE SHALL MAINTAIN ITS HEATING COIL LAT SET-POINT FOR HEATING (85 DEGREES ADJ.), AND MODULATE FROM MINIMUM VALUE UPWARD TOWARD MAX VALUE TO MAINTAIN HEATING SET-POINT OF 85 DEGREES IN THE SPACE. BOILER ROOM EF SHALL FLOW TRACK TO MAINTAIN SPACE SLIGHTLY POSITIVE TO AMBIENT. COOLING SET-POINT SHALL BE 85 DEG F (ADJ.). (CONTROLS SHALL OPEN EF ISOLATION DAMPER PRIOR TO MODULATING DAMPER AND PROVIDE AN ALARM IF IT DOES NOT OPEN, OR IF FAN FAILS TO OPERATE VIA CURRENT SENSING TRANSMITTER STATUS INPUT. DAMPER SHALL BE CLOSED WHEN EF IS NOT ON; PROVIDE DEAD-BAND BETWEEN HEATING, FLOW TRACKING SHALL BE BASED ON FIELD TESTING DURING TAB).

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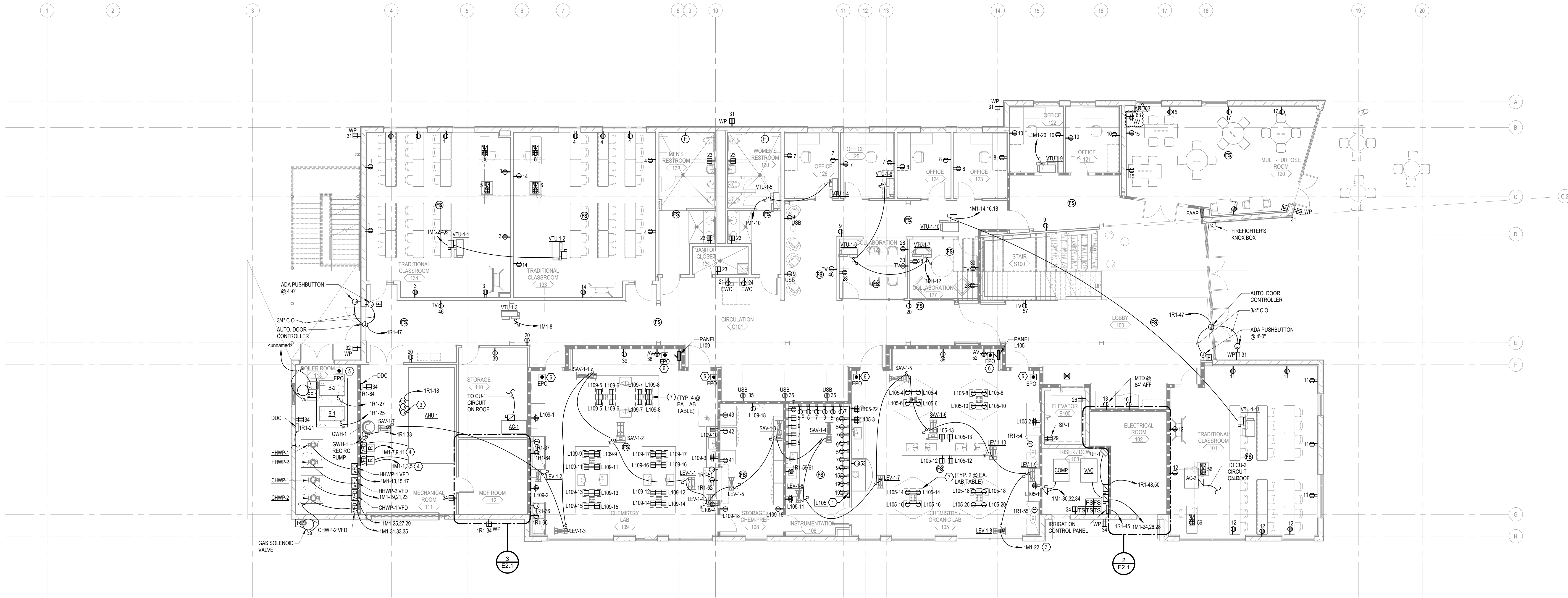
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MECHANICAL FLOOR PLAN - FIRST LEVEL

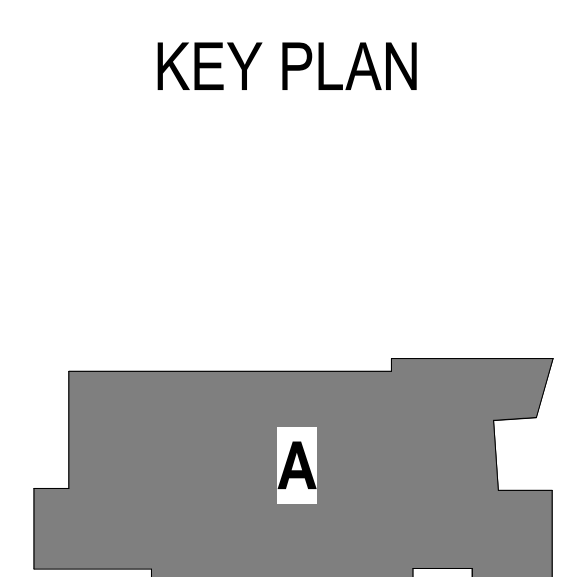
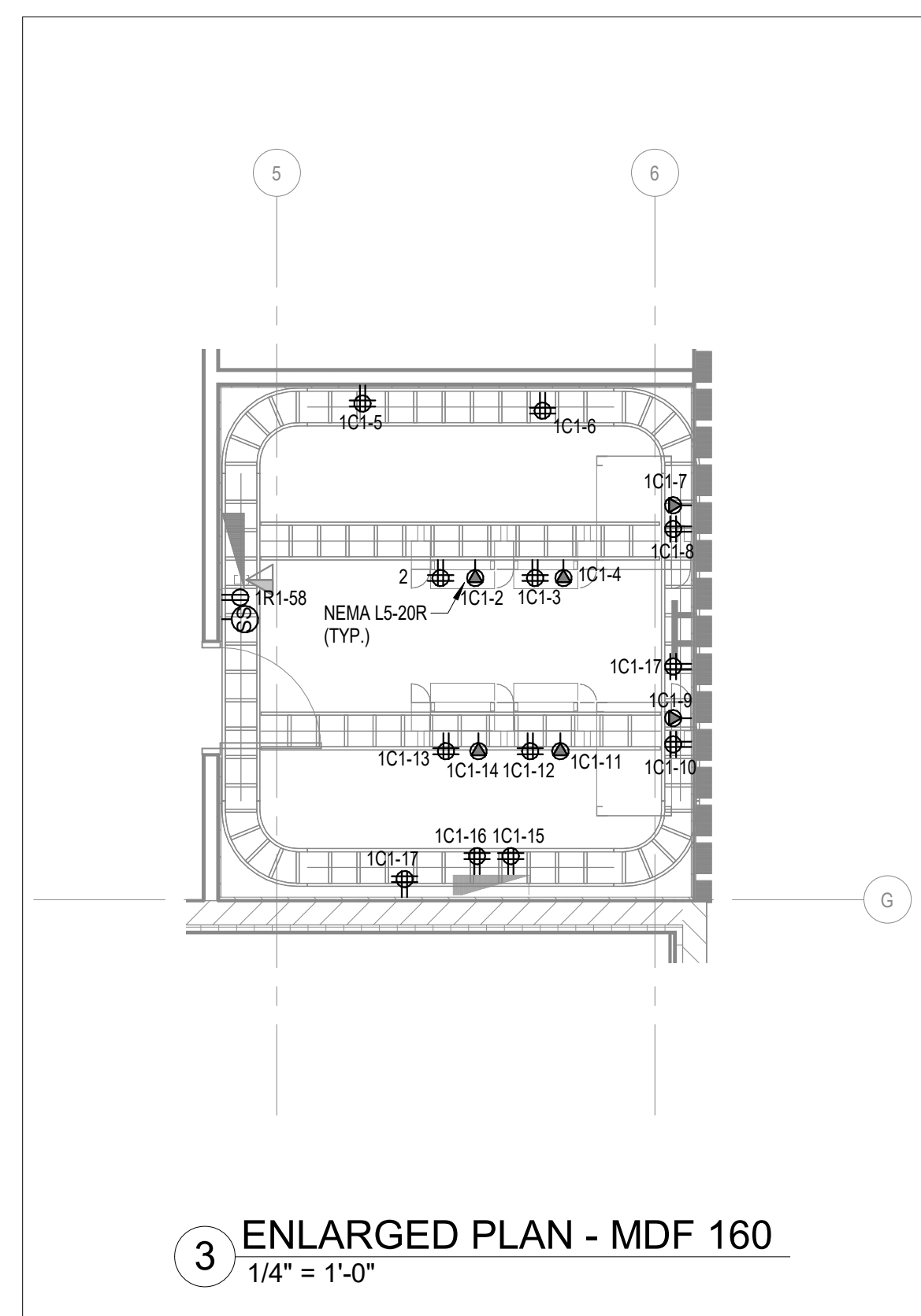
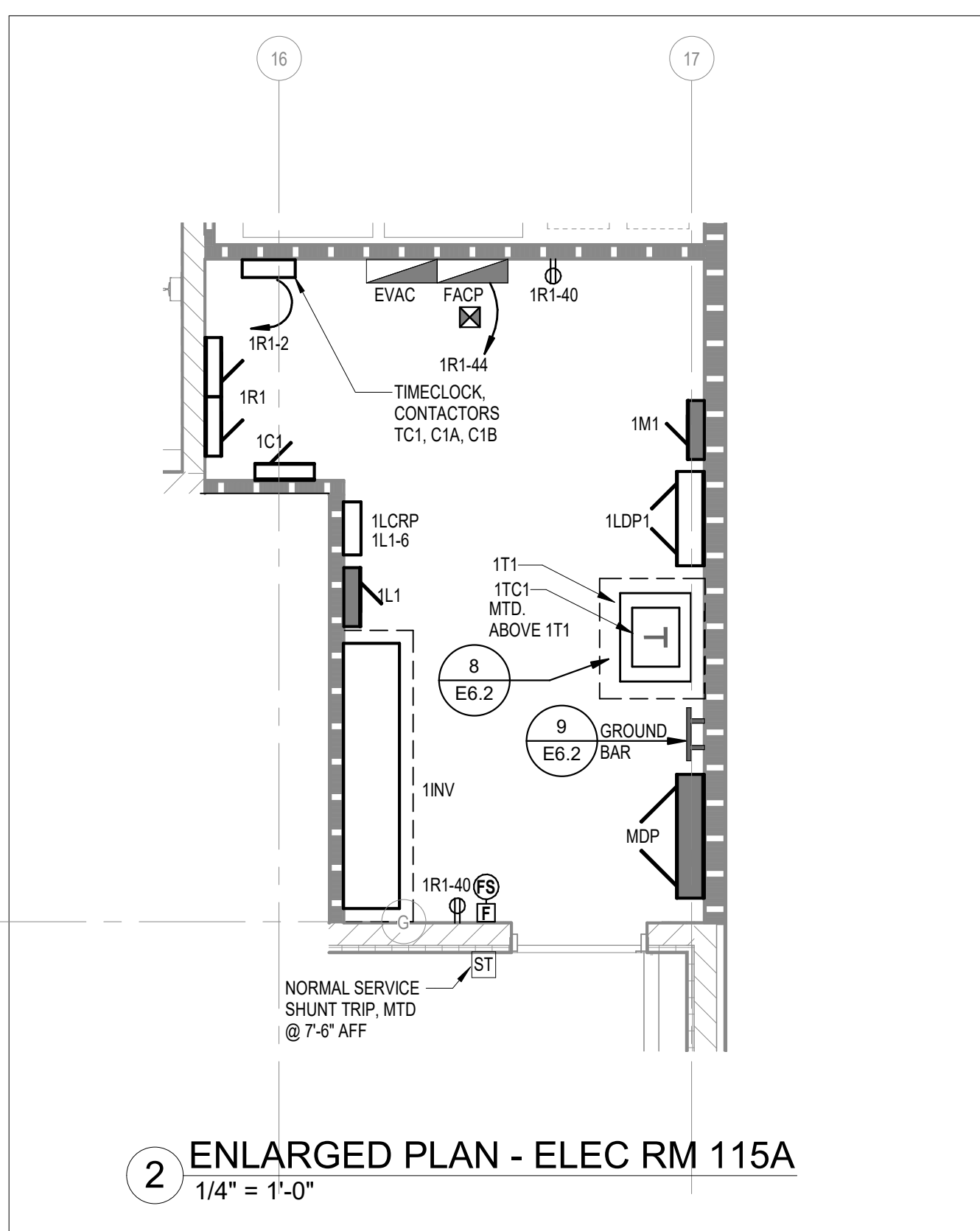
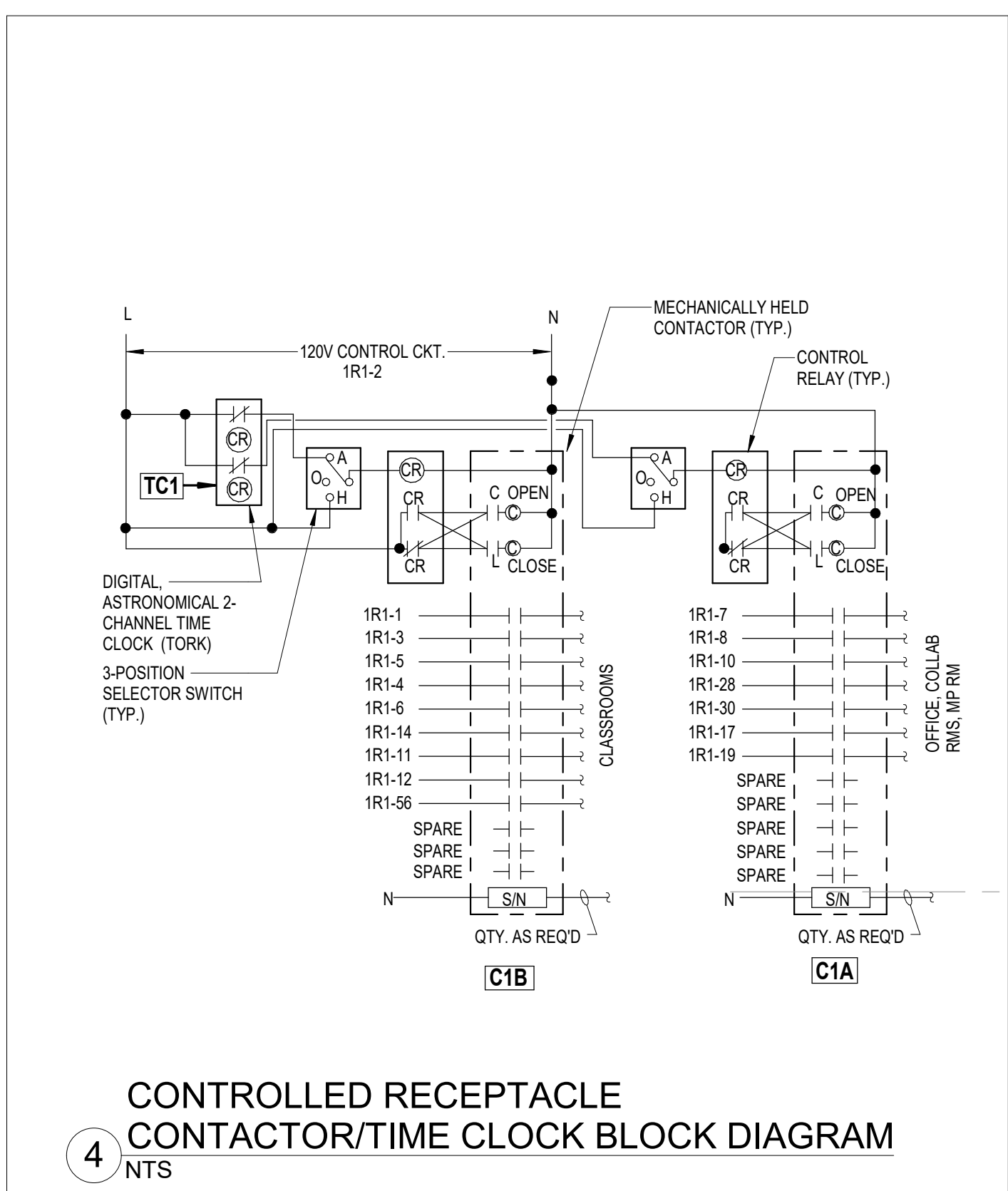
M1.1



1 POWER FLOOR PLAN - FIRST LEVEL
1/8" = 1'-0"

- GENERAL NOTES:**
- CIRCUIT NUMBERS ADJACENT TO DEVICES ARE TO PANEL, 1R1 UNLESS OTHERWISE NOTED.
 - PROVIDE ONE DEDICATED 277V CIRCUIT FOR ALL EACH SUPPLY EXHAUST VALVES AND LAB EXHAUST VALVES INDICATED ON MECHANICAL SCHEDULE WITH CONTROL POWER TRANSFORMER ONLY (NO HEAT OR FAN). PROVIDE A MOTOR RATED SWITCH AT EACH WAB BOX FOR DISCONNECTING MEANS FOR THE CONTROL TRANSFORMER. CONNECT ALL WAB BOX CONTROL POWER TRANSFORMERS TO CIRCUIT 1M1-17.
 - COORDINATE EXACT LOCATIONS AND CONNECTION REQUIREMENTS WITH LAB EQUIPMENT VENDOR PRIOR TO ROUGH-IN.

- PLAN NOTES:**
- PROVIDE WIREMOLD RACEWAY ABOVE COUNTER TOPS. BASIS OF DESIGN IS WIREMOLD ALSO. ALL CIRCUITS NUMBERS ADJACENT TO DEVICES IN THIS WIREMOLD ARE TO PANEL INDICATED UNLESS OTHERWISE NOTED.
 - PROVIDE INTERCONNECTION WIRING FOR FUME HOOD RECEPTACLE, LIGHTING, AND SWITCH.
 - SEPARATE CONNECTIONS TO UNIT LIGHTS, UNIT RECEPTACLES UV LIGHTS OR BIO. FILTER. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF CONNECTIONS PRIOR TO ROUGH IN.
 - TO PANEL AND CIRCUIT INDICATED. SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE, SHEET E5.1, FOR CONDUIT, WIRING & ASSOCIATED ELECTRICAL EQUIPMENT.
 - EMERGENCY POWER OFF PUSHBUTTON STATION, RED MUSHROOM PUSHBUTTON UNDER LEAN COVER @ 48" AFF. FOR SHUT OFF OF POWER & GAS TO GAS-FIRED BOILERS. PROVIDE SIGNAGE TO READ 'EMERGENCY BOILER GAS & POWER SHUT OFF'.
 - EMERGENCY POWER OFF (EPO) PUSHBUTTON STATION, RED MUSHROOM PUSHBUTTON UNDER LEAN COVER @ 48" AFF. FOR SHUT OFF OF PANEL IN THIS ROOM. CONNECT TO SHUNT TRIP COIL OF MAIN BREAKER, LABEL EPO 'EMERGENCY POWER OFF'.
 - LAB BENCH PEDESTAL TABLE BOX, 2-GANG, CLEAR ANODIZED ALUMINUM, WITH (2) 20A DUPLEX RECEPTACLES (STANDARD OR GFCI PER SYMBOL SHOWN). COORDINATE EXACT LOCATION OF BOX WITH LAB CASEWORK PRIOR TO ROUGH IN. UL 111 LISTED, BASIS OF DESIGN: LEGRAND #LBP, HUBBELL EQUAL.



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POWER FLOOR PLAN - FIRST LEVEL

E2.1



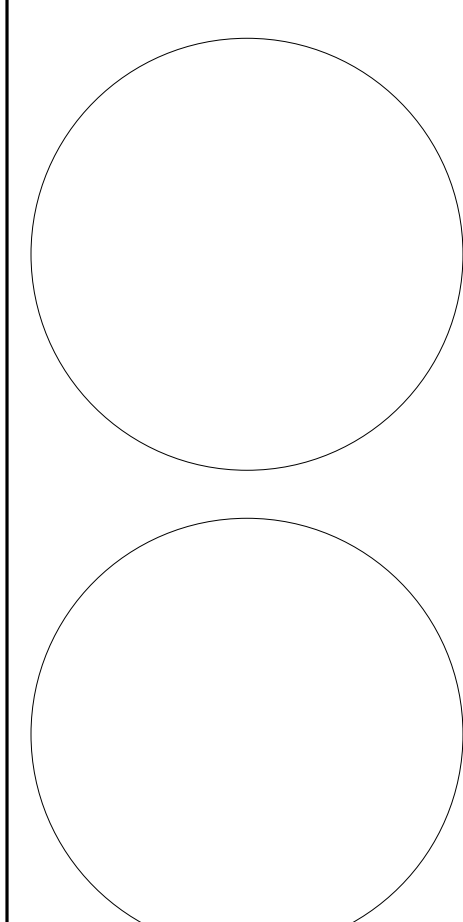
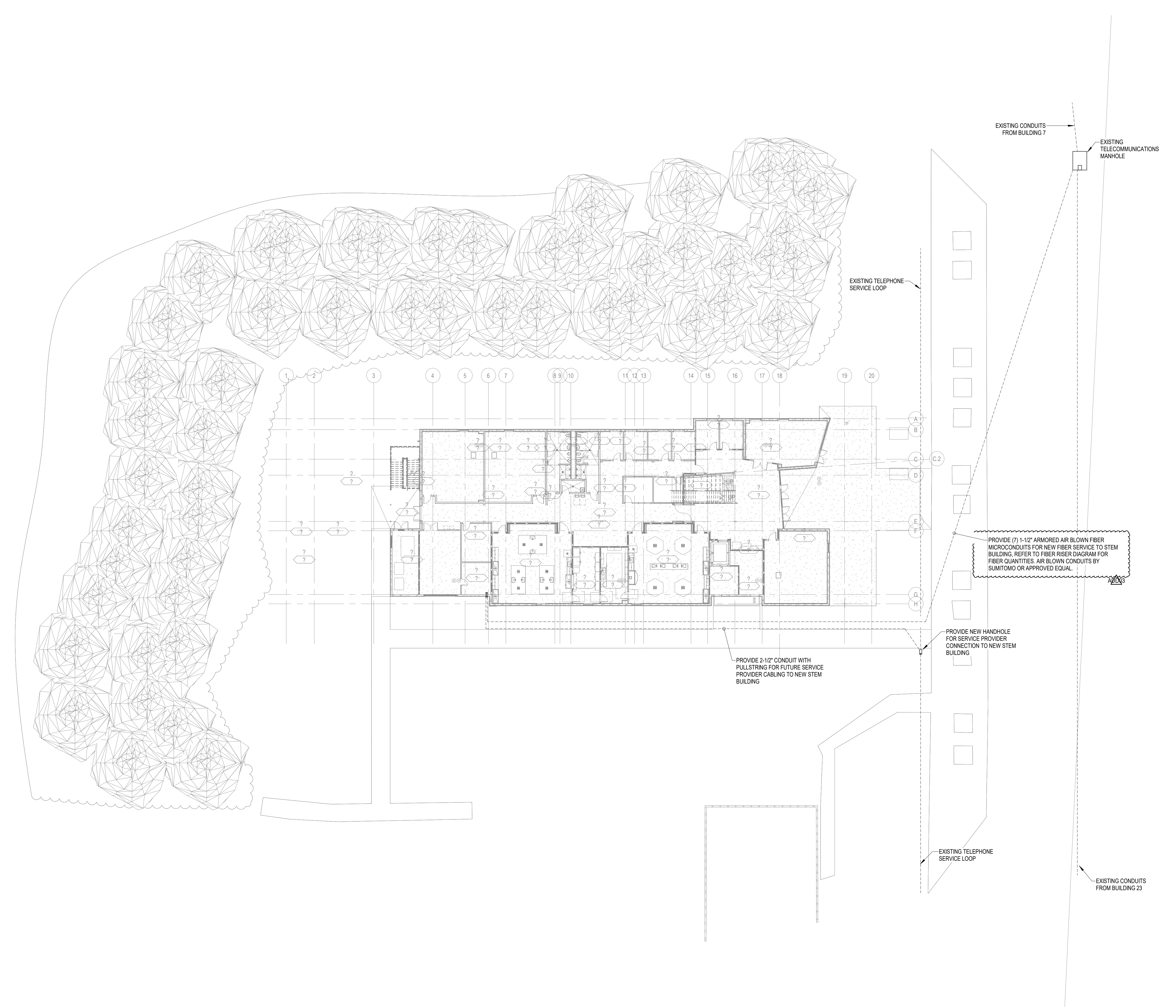
Branch Panel: 1C1
Location: ELECTRICAL ROOM 102
Supply From: 1TC1
Mains Type: MCB
Main Rating: 100 A
Enclosure: Type 1
Notes:

Ltg Inverter: 1INV
Location: ELECTRICAL ROOM 102
Supply From: MDP
Mains Type: MLO
Main Rating: 100 A
Notes:

Branch Panel: 2R1
Location: STORAGE / PREP 251
Supply From: 2LDP1
Mains Type: MCB
Main Rating: 250 A
Enclosure: Type 1
Notes:

Branch Panel: 1R1
Location: ELECTRICAL ROOM 102
Supply From: 1LDP1
Mains Type: MCB
Main Rating: 250 A
Enclosure: Type 1
Notes:

Summary table with columns: 1C1, 2R1, 1R1, 1INV, ---



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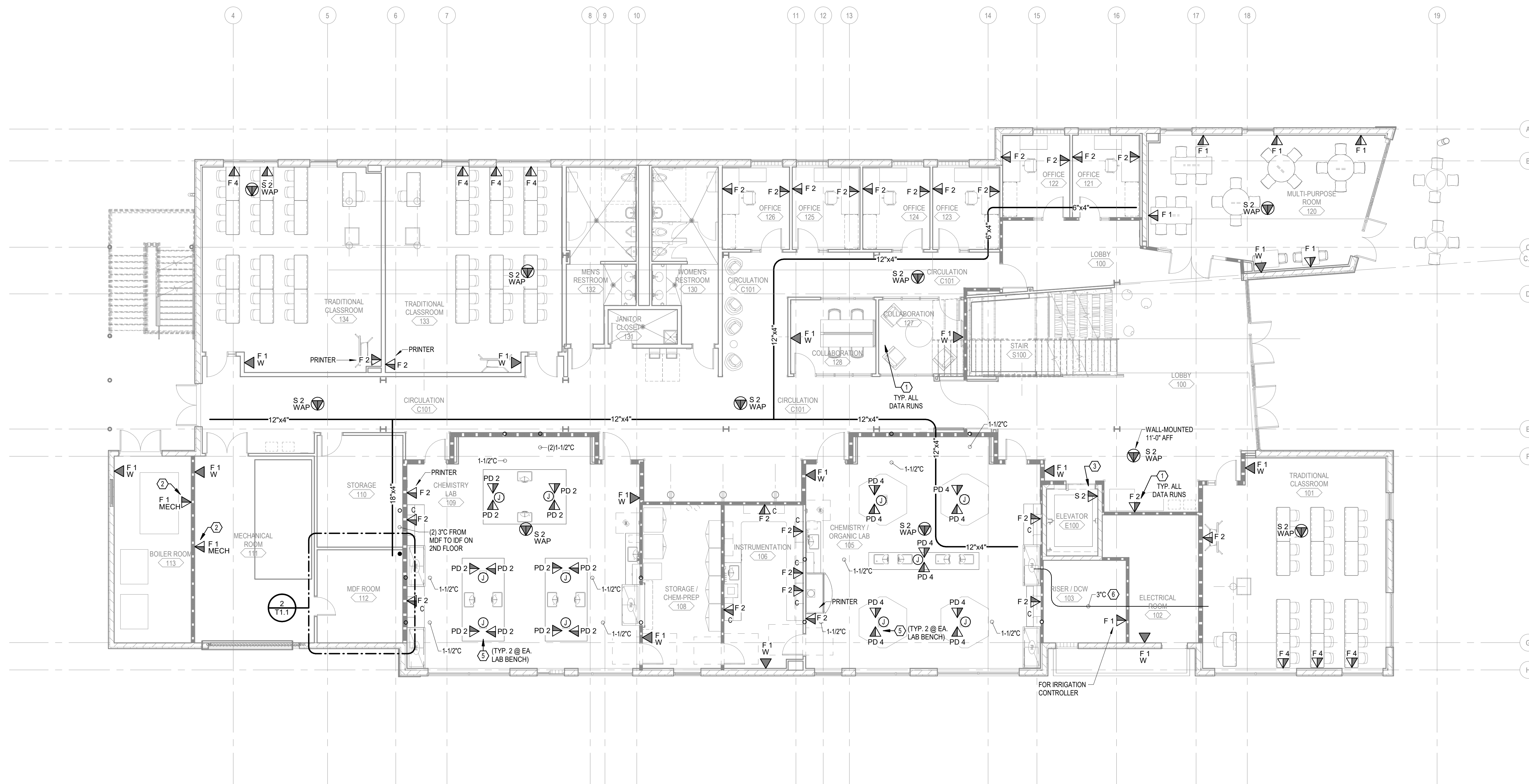
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TECHNOLOGY SITE PLAN

T1.0

1 TECHNOLOGY SITE PLAN
1" = 20'-0"

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1 VOICE DATA FLOOR PLAN - FIRST LEVEL
1/8" = 1'-0"

TECHNOLOGY GENERAL NOTES:

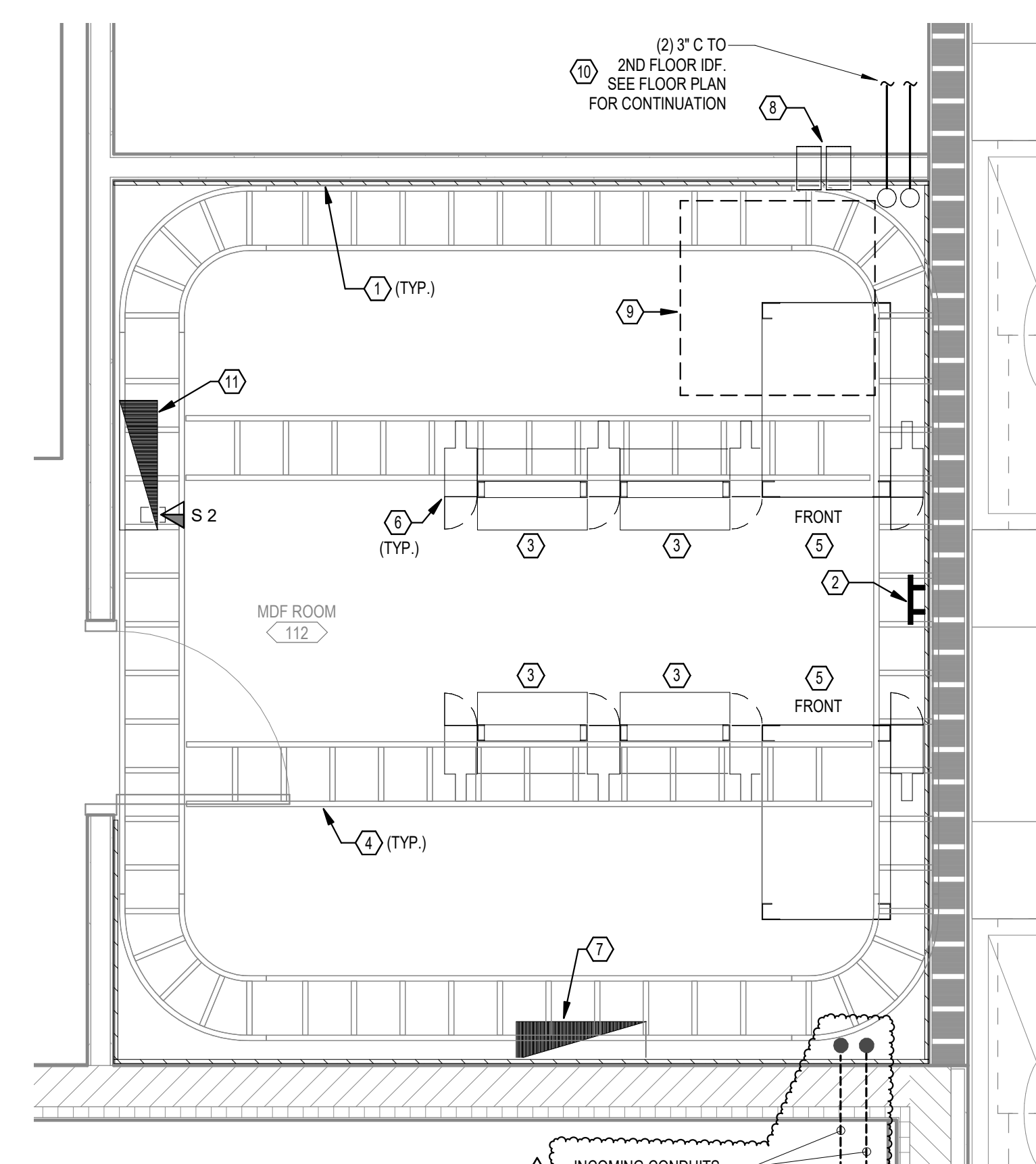
1. ALL CABLE TRAY AND CONDUIT RUNS SHOWN ARE FOR DIAGRAMMATIC PURPOSES ONLY AND ARE ONLY SHOWN TO CONVEY INTENTION OF ROUTING, COORDINATIONS AND STUBBING. CONTRACTOR SHALL ADAPT ACCORDING TO ACTUAL FIELD CONDITIONS.
2. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES WITH ARCHITECTURAL AND CASEWORK ELEVATION DRAWINGS.
3. TECHNOLOGY CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING FOR INSTALLATION OF ALL TECHNOLOGY WORK. ALL CONDUITS SHALL BE RUN CONCEALED IN WALLS AND CEILING. SURFACE RACEWAY OR EXPOSED CONDUITS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. TECHNOLOGY CONTRACTOR TO PROVIDE ACCESS PANELS IN WALLS AND CEILING AS REQUIRED. MATCH ALL EXISTING CONDITIONS.
4. OPENINGS AROUND CONDUITS OR IN SLEEVES FOR CONDUITS PENETRATING FIRE-RATED FLOOR SLABS, WALLS, PARTITIONS, CEILING OR SMOKE PARTITIONS SHALL BE SEALED AT BOTH SIDES OF THE PENETRATION. INSULATION SHALL NOT EXTEND THROUGH SLEEVES. PACK OPENINGS WITH CALCIUM SILICATE BLOCK, DOW CORNING 3-6548 RTV SILICON FOAM, 3M CP25 CAULK, OR 303 PUTTY FIRE BARRIER SYSTEM, OR MATERIAL HAVING THE SAME FIRE-RATING AS THE FLOOR OR WALL PENETRATED. FIBERGLASS IS NOT ACCEPTABLE.
5. WIRELESS ACCESS POINT LOCATIONS SHALL BE VERIFIED BY OWNER PROVIDED WIFI SURVEY. WIRELESS ACCESS POINTS FURNISHED AND INSTALLED BY OWNER.
6. NOT ALL TECHNOLOGY ROUGHS AND DATA DROP LOCATIONS ARE SHOWN ON THIS SHEET. SEE SHEET T2.1 FOR ADDITIONAL LOCATIONS.

VOICE DATA FLOOR PLAN KEY NOTES:

1. HOME-RUN NEW COMMUNICATIONS CABLING TO NEW TELECOM ROOM (MDF 158). SEE LOCATION ON THIS SHEET. PROVIDE CAT-6 PATCH PANELS AS REQUIRED IN TR FOR TERMINATION OF NEW DATA CABLES.
2. FOR BUILDING AUTOMATION SYSTEM. COORDINATE OUTLET LOCATION WITH MECHANICAL CONTRACTOR.
3. PRIOR TO ROUGH-IN, VERIFY EXACT DISPLAY SIZES, MOUNTING BRACKETS, MOUNTING HEIGHTS AND BACKBOX LOCATIONS SO THAT OUTLETS ARE HIDDEN BEHIND DISPLAY. COORDINATE WITH OWNER/ARCHITECT/GENERAL CONTRACTOR AS REQUIRED.
4. VOICE DATA OUTLETS FOR ELEVATOR CONTROLS AND CAB PHONE. LOCATE IN ELEVATOR CONTROL ROOM AND COORDINATE INSTALLATION WITH ELEVATOR INSTALLER.
5. DATA OUTLETS INSTALLED IN LAB BENCH PEDESTAL TABLE BOX, 2-GANG, CLEAR ANODIZED ALUMINUM. INSTALL ADJACENT TO TABLE BOX WITH RECEPTACLES. COORDINATE EXACT LOCATION OF BOX WITH LAB CASEWORK PRIOR TO ROUGH IN. UL 111 LISTED. BASIS OF DESIGN: LEGRAND #LBP2, HUBBELL EQUAL.
6. RUN CONDUITS 11'-0" AFG. COORDINATE CONDUIT PATH WITH FIRE PROTECTION EQUIPMENT IN RISER ROOM AND ELECTRICAL EQUIPMENT IN ELECTRICAL ROOM PER NEC 110.26(E).

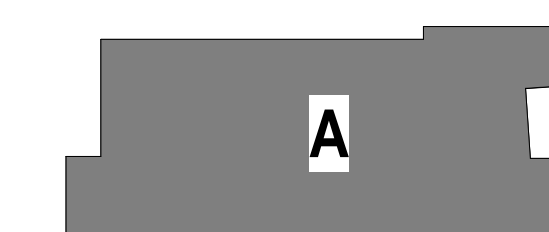
ENLARGED PLAN KEY NOTES:

1. PROVIDE PLYWOOD BACKBOARD, 8'-0" HIGH X FULL LENGTH OF WALL, MOUNTED WITH BOTTOM AT 6" ABOVE FINISH FLOOR. ALL ELECTRICAL OUTLETS ROUGHED INTO WALL BEHIND BACKBOARD FOR FLUSH MOUNT INSTALLATION OF FACEPLATES. BACKBOARDS ARE 3/4" THICK AC EXTERIOR GRADE PLYWOOD. ALL SCREWS COUNTERSUNK. PRIME WITH 2 COATS 'KILZ' PRIMER, SANDED SMOOTH AFTER EACH COAT. FINISHED WITH TWO COATS SEMI-GLOSS FIRE RETARDANT ENAMEL PAINT. COLOR BATTLESHIP GRAY. FINAL SURFACE IS UNIFORMLY SMOOTH AND EVEN. TOUCHED UP AT END OF PROJECT. COORDINATE WITH ELECTRICAL CONTRACTOR TO ENSURE THAT POWER RECEPTACLES ARE PROPERLY LOCATED AND WITH FACEPLATES FLUSH ON FACE OF BACKBOARD.
2. PROVIDE TELECOMMUNICATIONS MAIN GROUND BAR (TMGB) WITH TWO ROWS OF 7/16" ON CENTER HOLES AT 1" SPACING EACH WAY. ALL CONNECTIONS MADE WITH TWO HOLE LUG BARREL COMPRESSION LUGS AND BONDED TO BUSBAR WITH TWO 3/8" ON CENTER STAINLESS STEEL HEX HEAD CAP SCREWS WITH STAINLESS STEEL LOCKING NUTS. ROUTE 3/4" EMT CONDUIT TO MAIN ELECTRICAL PANEL FOR GROUNDING CONDUCTOR WITH INSULATED GROUNDING BUSHINGS.
3. PROVIDE 84"x19" FLOOR MOUNTED EQUIPMENT RACK.
4. PROVIDE 12" WIDE CABLE RUNWAY, CHATSWORTH 10250-712 OR EQUAL. COLOR BLACK. PROVIDE BUTT-SPLICE KIT TO BUTT-SPLICE SECTIONS OF CABLE RUNWAY (PAINT BEFORE INSTALLING AND TOUCH UP AFTER INSTALLATION). INSTALL ALL NEW CABLE RUNWAY, FITTINGS, AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.
5. PROVIDE 4- POST FLOOR MOUNTED EQUIPMENT CABINET.
6. PROVIDE 6" VERTICAL CABLE MANAGER.
7. SPACE RESERVED FOR SERVICE PROVIDERS.
8. PROVIDE (4) 4" CONDUIT PATHWAYS. PROVIDE E2-PATH OR APPROVED EQUAL FIRE RATED OPENINGS AT EACH LOCATION.
9. PROVIDE 36" X 36" SUSPENDED CABLE SLACK TRAY 12" ABOVE HORIZONTAL CABLE LADDER.
10. STUB CONDUITS 12" ABOVE CABLE LADDER IN MDF.
11. SPACE RESERVED FOR ACCESS CONTROL PANEL. COORDINATE DATA DROP LOCATION WITH SECURITY VENDOR.



2 VOICE DATA ENLARGED PLAN - FIRST LEVEL - MDF ROOM
1/2" = 1'-0"

KEY PLAN



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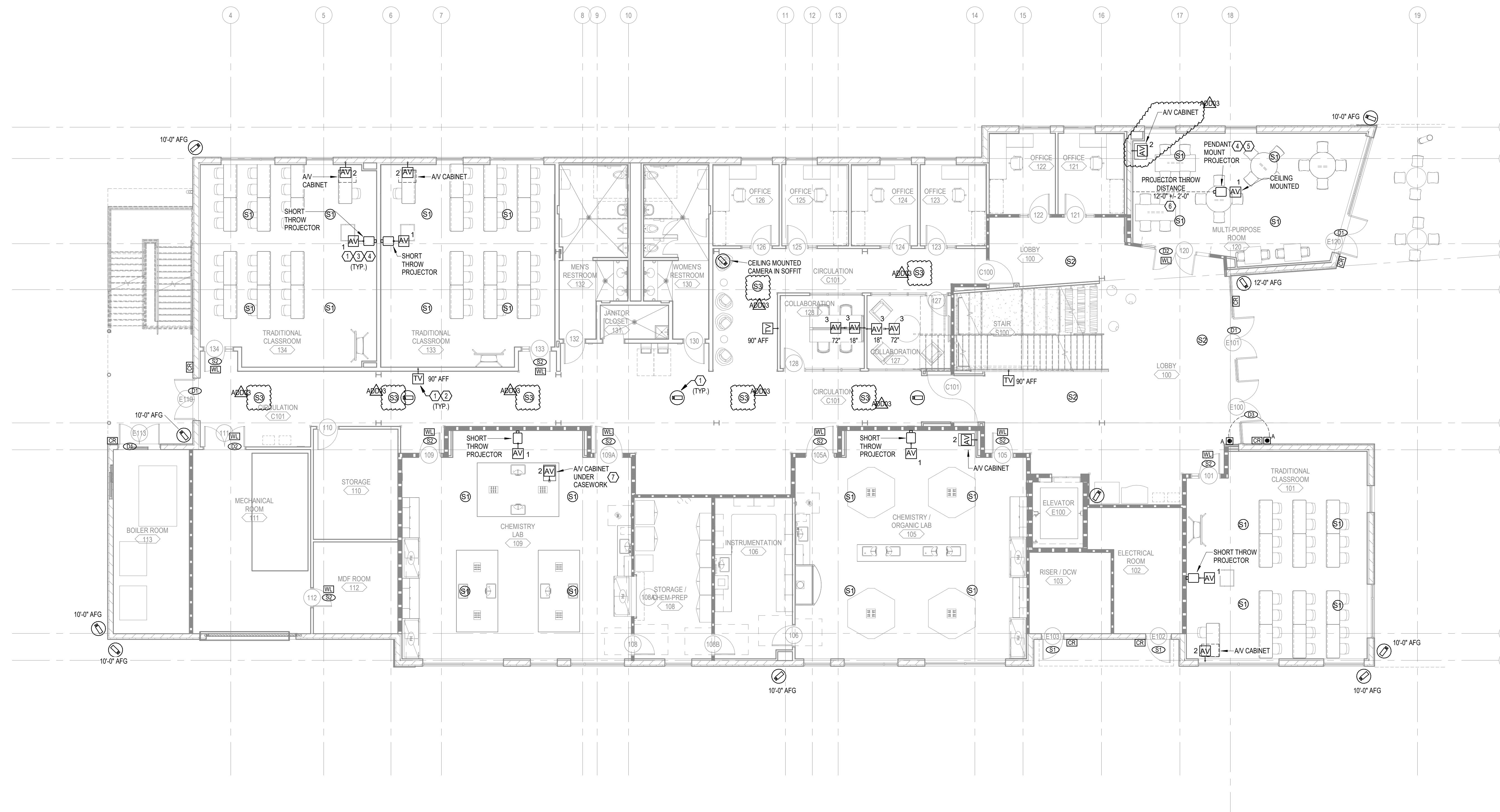
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VOICE DATA FLOOR PLAN - FIRST LEVEL

T1.1



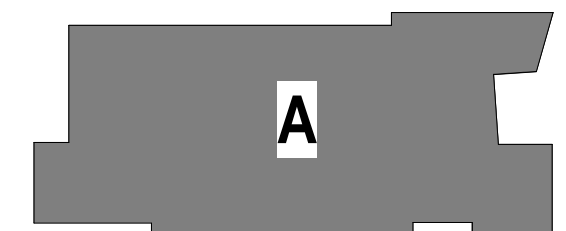


1 AUDIO VIDEO & SECURITY FLOOR PLAN - FIRST LEVEL
1/8" = 1'-0"

GENERAL NOTES:
1. NOT ALL TECHNOLOGY ROUGH-INS AND DATA DROP LOCATIONS ARE SHOWN ON THIS SHEET. SEE SHEET T1.1 FOR ADDITIONAL LOCATIONS.

- FLOOR PLAN KEY NOTES:**
- ① HOME-RUN NEW COMMUNICATIONS CABLE TO NEW TELECOM ROOM (10F 261). SEE LOCATION ON THIS SHEET. PROVIDE CAT-6 PATCH PANELS AS REQUIRED IN TR FOR TERMINATION OF NEW DATA CABLES.
 - ② PRIOR TO ROUGH-IN, VERIFY EXACT DISPLAY SIZES, MOUNTING BRACKETS, MOUNTING HEIGHTS AND BACKBOX LOCATIONS SO THAT OUTLETS ARE HIDDEN BEHIND DISPLAY. COORDINATE WITH OWNER/ARCHITECT/GENERAL CONTRACTOR AS REQUIRED.
 - ③ MOUNTING HEIGHTS FOR AV OUTLET AND POWER RECEPTACLE AT SHORT THROW PROJECTOR SHALL BE DETERMINED BY TECHNOLOGY CONTRACTOR. SEE SHORT THROW PROJECTOR DETAIL ON SHEET T6.4 FOR ADDITIONAL INFORMATION. PRIOR TO ROUGH-IN CONTRACTOR SHALL COORDINATE PROJECTION SURFACE MOUNTING HEIGHTS WITH ARCHITECT.
 - ④ IMAGE SHALL BE PROJECTED UPON PRESENTATION WALL COVERING SURFACE (WALLTALKER PROJECT-RITE OR SIMILAR), F.B.O. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
 - ⑤ PROVIDE CEILING PENDANT MOUNT FOR PROJECTOR (CHIEF RPA SERIES) AND VIBRATION ISOLATING COUPLER (CHIEF CMA348) FOR OWNER PROVIDED PROJECTOR. PROVIDE 1.5" NPT MOUNTING POST FOR MOUNTING HEIGHT TO CLEAR ROOM LIGHTING FIXTURES AS REQUIRED FOR AN UNOBSTRUCTED SCREEN IMAGE.
 - ⑥ PROJECTOR THROW DISTANCES BASED ON EPSON POWERLITE L610U PROJECTOR, F.B.O. PRIOR TO ROUGH-IN, CONTRACTOR SHALL VERIFY WITH OWNER THE PROJECTOR MAKE/MODEL TO BE USED AND ADJUST PROJECTOR THROW DISTANCE AS REQUIRED TO OBTAIN APPROXIMATE IMAGE SIZE OF 54" x 88" W.
 - ⑦ COORDINATE AV OUTLET CONNECTIONS IN CASEWORK WITH ARCHITECTURAL ELEVATIONS.

KEY PLAN



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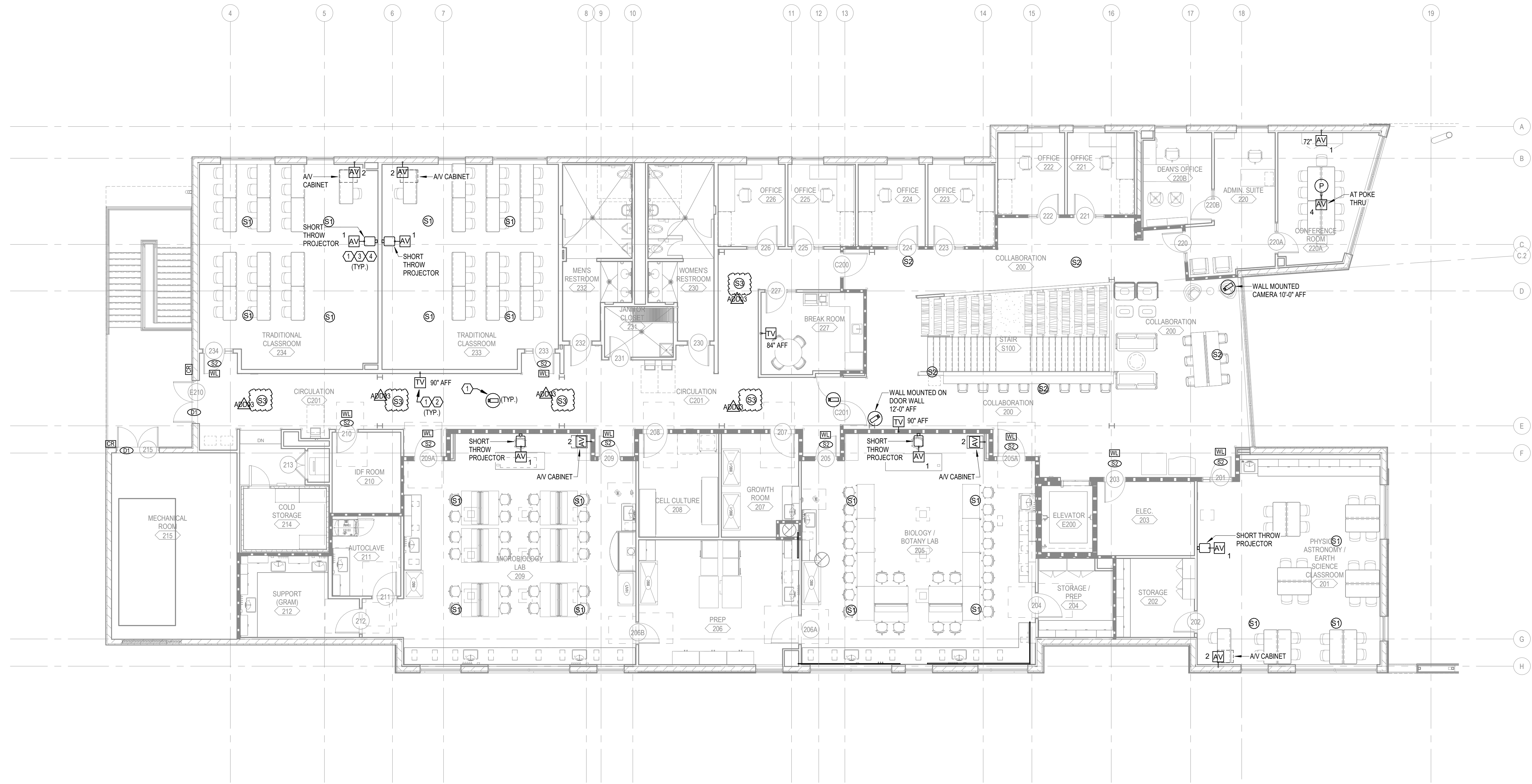
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AUDIO VIDEO & SECURITY FLOOR PLAN - FIRST LEVEL

T2.1





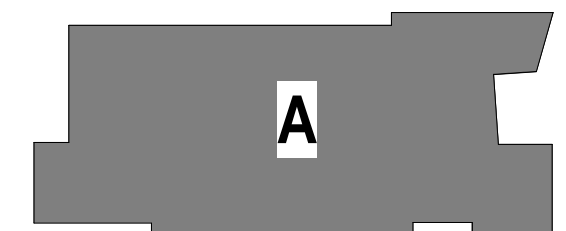
AUDIO VIDEO & SECURITY FLOOR PLAN - SECOND LEVEL
1/8" = 1'-0"

GENERAL NOTES:
1. NOT ALL TECHNOLOGY ROUGH-INS AND DATA DROP LOCATIONS ARE SHOWN ON THIS SHEET. SEE SHEET T1.2 FOR ADDITIONAL LOCATIONS.

FLOOR PLAN KEY NOTES:

1. HOME-RUN NEW COMMUNICATIONS CABLING TO NEW TELECOM ROOM (IDF 261). SEE LOCATION ON THIS SHEET. PROVIDE CAT-6 PATCH PANELS AS REQUIRED IN TR FOR TERMINATION OF NEW DATA CABLES.
2. PRIOR TO ROUGH-IN, VERIFY EXACT DISPLAY SIZES, MOUNTING BRACKETS, MOUNTING HEIGHTS AND BACKBOX LOCATIONS SO THAT OUTLETS ARE HIDDEN BEHIND DISPLAY. COORDINATE WITH OWNER/ARCHITECT/GENERAL CONTRACTOR AS REQUIRED.
3. MOUNTING HEIGHTS FOR AV OUTLET AND POWER RECEPTACLE AT SHORT THROW PROJECTOR SHALL BE DETERMINED BY TECHNOLOGY CONTRACTOR. SEE SHORT THROW PROJECTOR DETAIL ON SHEET T5.4 FOR ADDITIONAL INFORMATION. PRIOR TO ROUGH-IN CONTRACTOR SHALL COORDINATE PROJECTION SURFACE MOUNTING HEIGHTS WITH ARCHITECT.
4. IMAGE SHALL BE PROJECTED UPON PRESENTATION WALL COVERING SURFACE (WALL TALKER PROJECT-RITE OR SIMILAR). F.B.O. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.

KEY PLAN



NEW STEM FACILITY
149 SE COLLEGE PL,
LAKE CITY, FL 32025

FLORIDA GATEWAY COLLEGE

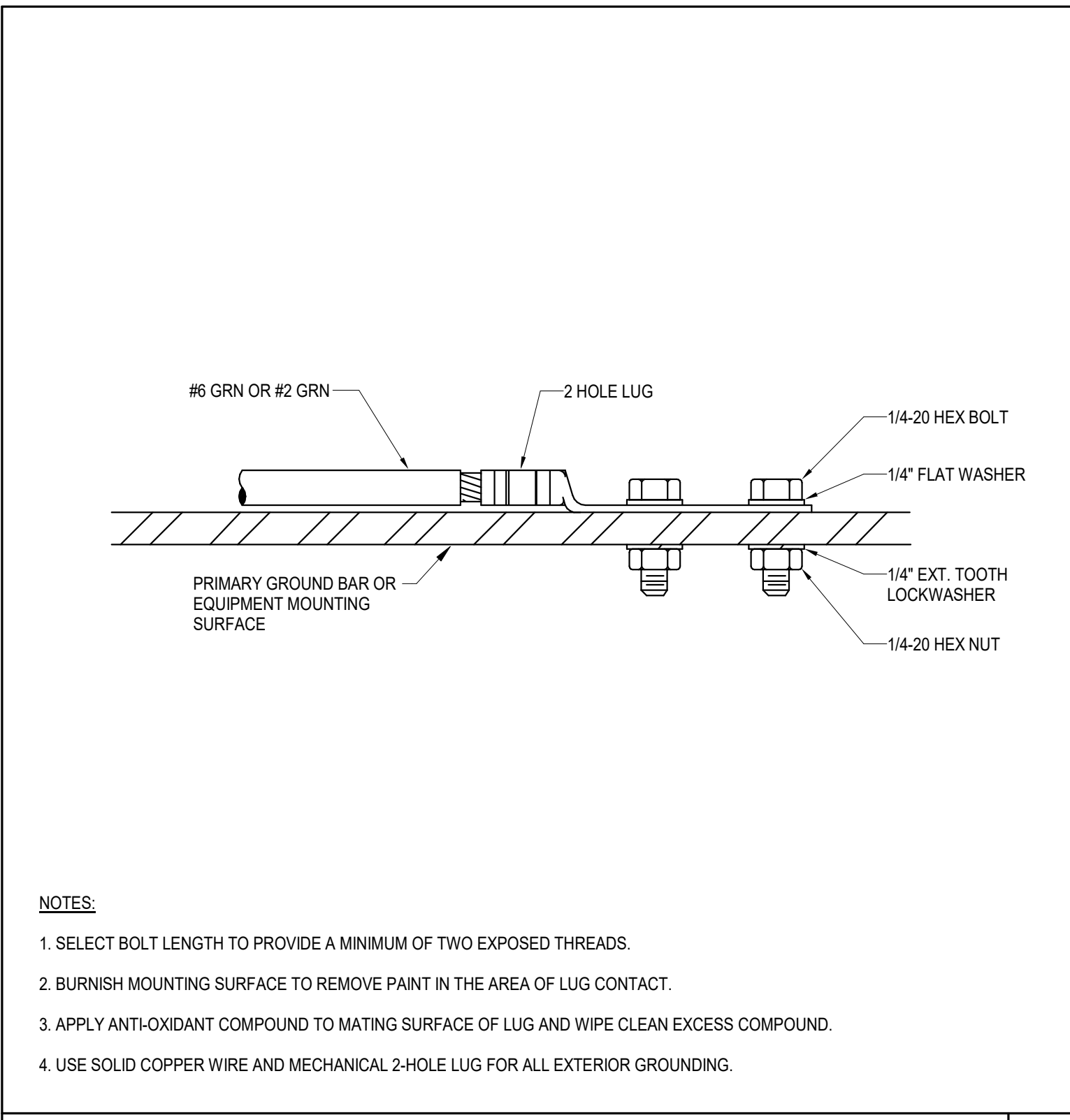
BID DOCUMENTS

36-17116-00
12/11/2020
Revisions:
ADD03: 1/08/2021

AUDIO VIDEO & SECURITY FLOOR PLAN - SECOND LEVEL

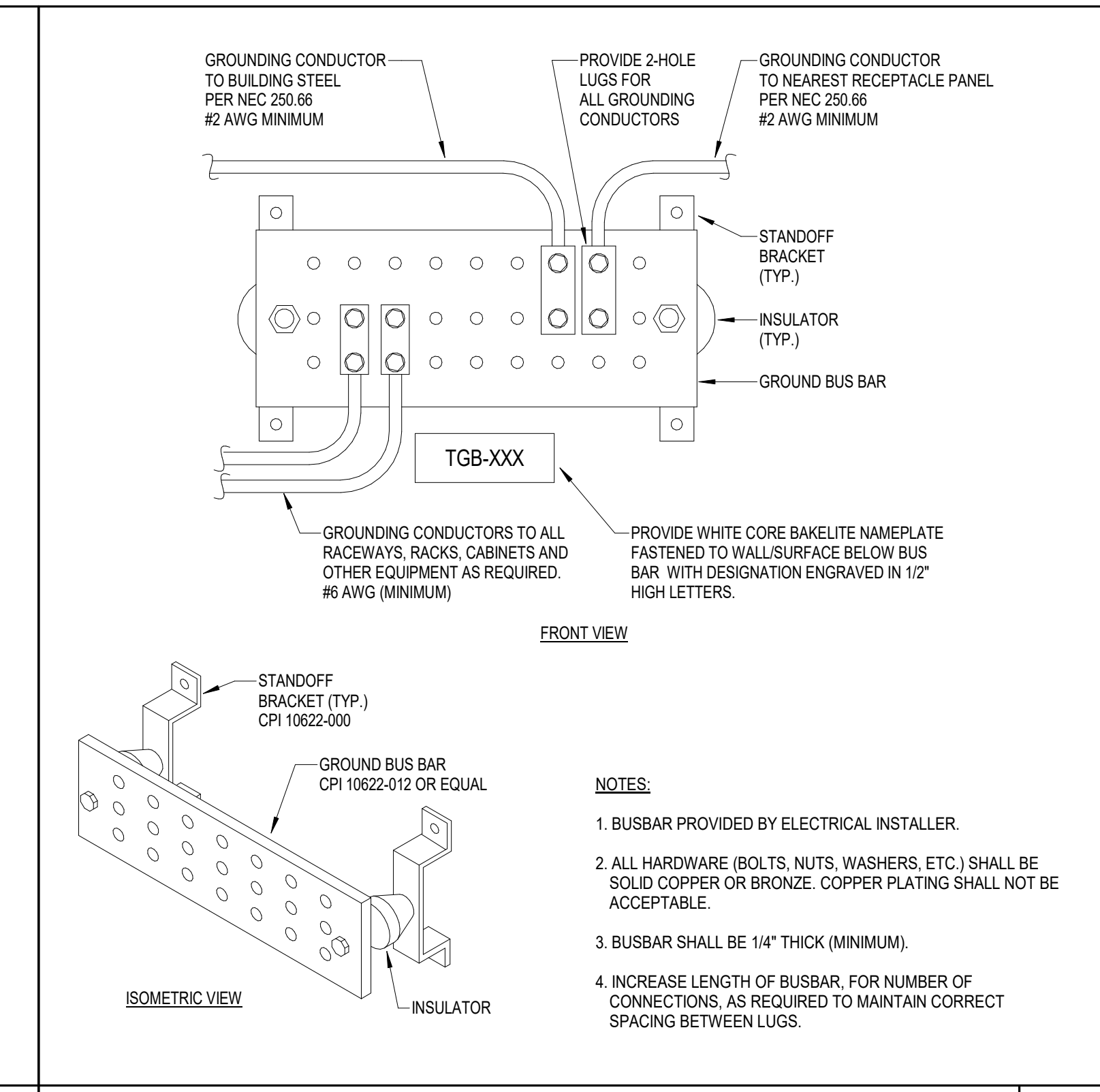
T2.2





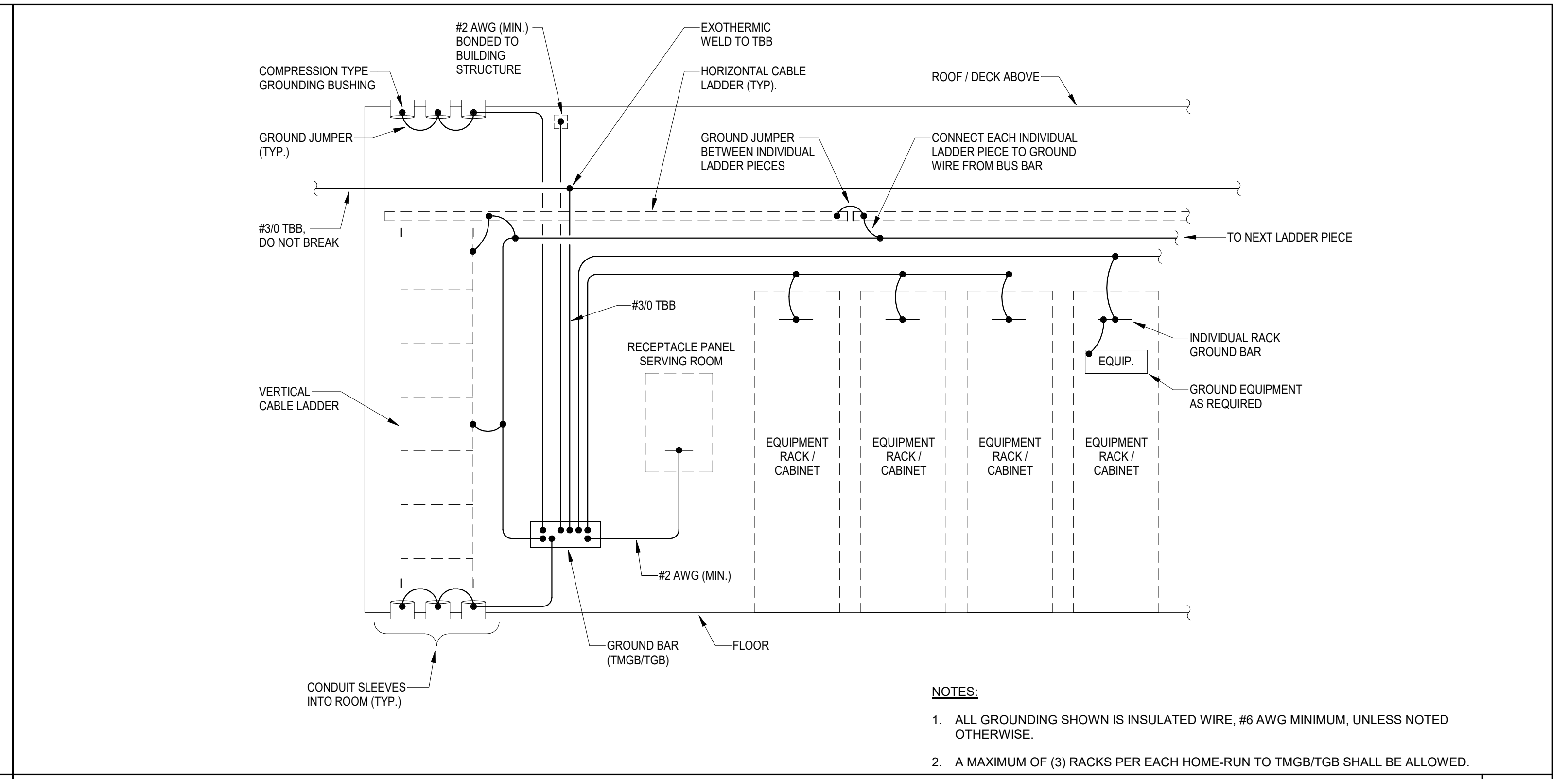
- NOTES:**
1. SELECT BOLT LENGTH TO PROVIDE A MINIMUM OF TWO EXPOSED THREADS.
 2. BURNISH MOUNTING SURFACE TO REMOVE PAINT IN THE AREA OF LUG CONTACT.
 3. APPLY ANTI-OXIDANT COMPOUND TO MATING SURFACE OF LUG AND WIPE CLEAN EXCESS COMPOUND.
 4. USE SOLID COPPER WIRE AND MECHANICAL 2-HOLE LUG FOR ALL EXTERIOR GROUNDING.

GROUNDING DETAIL, 2-HOLE LUG TERMINATION
No Scale



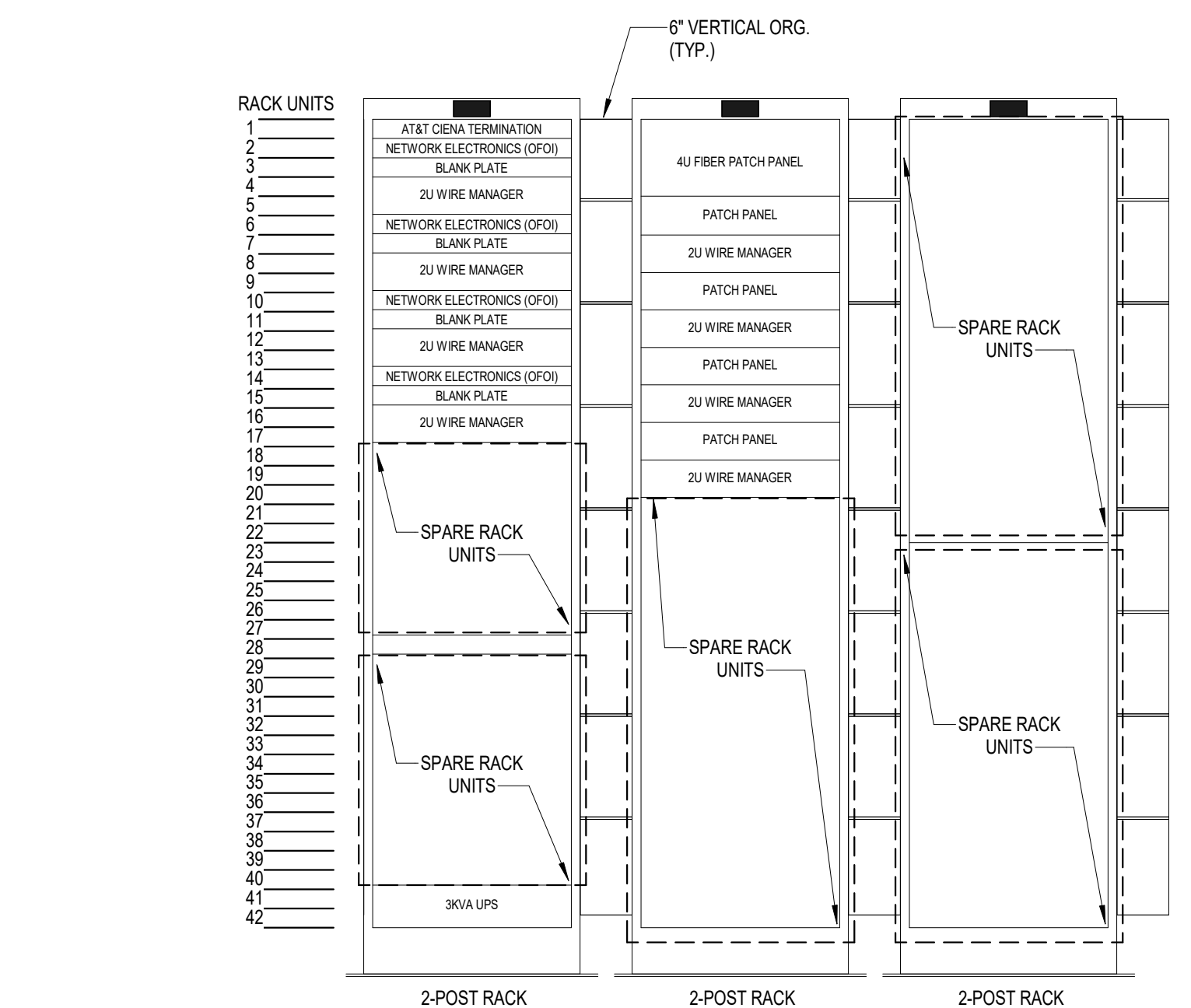
- NOTES:**
1. BUSBAR PROVIDED BY ELECTRICAL INSTALLER.
 2. ALL HARDWARE (BOLTS, NUTS, WASHERS, ETC.) SHALL BE SOLID COPPER OR BRONZE. COPPER PLATING SHALL NOT BE ACCEPTABLE.
 3. BUSBAR SHALL BE 1/4" THICK (MINIMUM).
 4. INCREASE LENGTH OF BUSBAR, FOR NUMBER OF CONNECTIONS AS REQUIRED TO MAINTAIN CORRECT SPACING BETWEEN LUGS.

GROUNDING DETAIL, TELECOM GROUND BUS BAR
No Scale

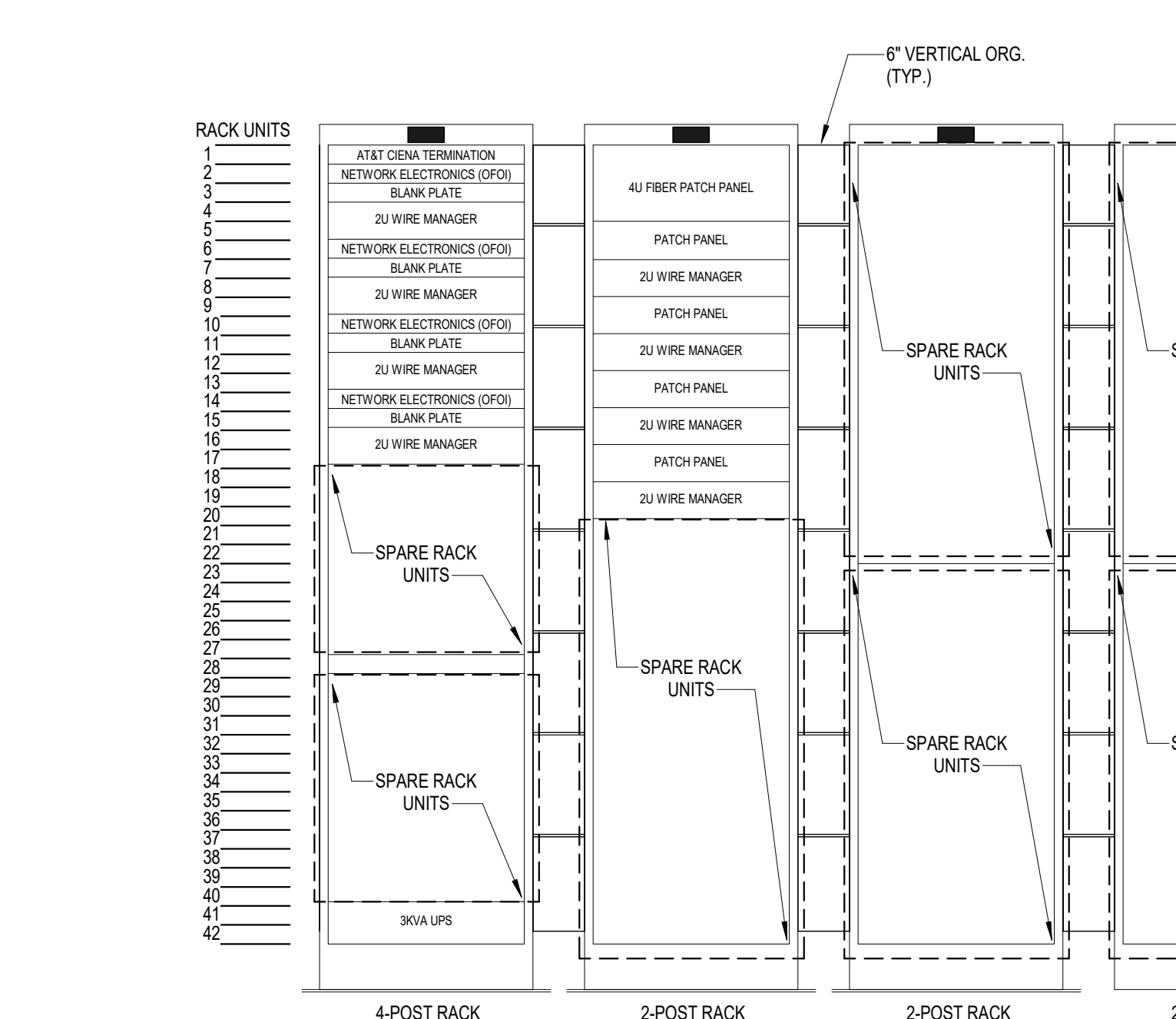
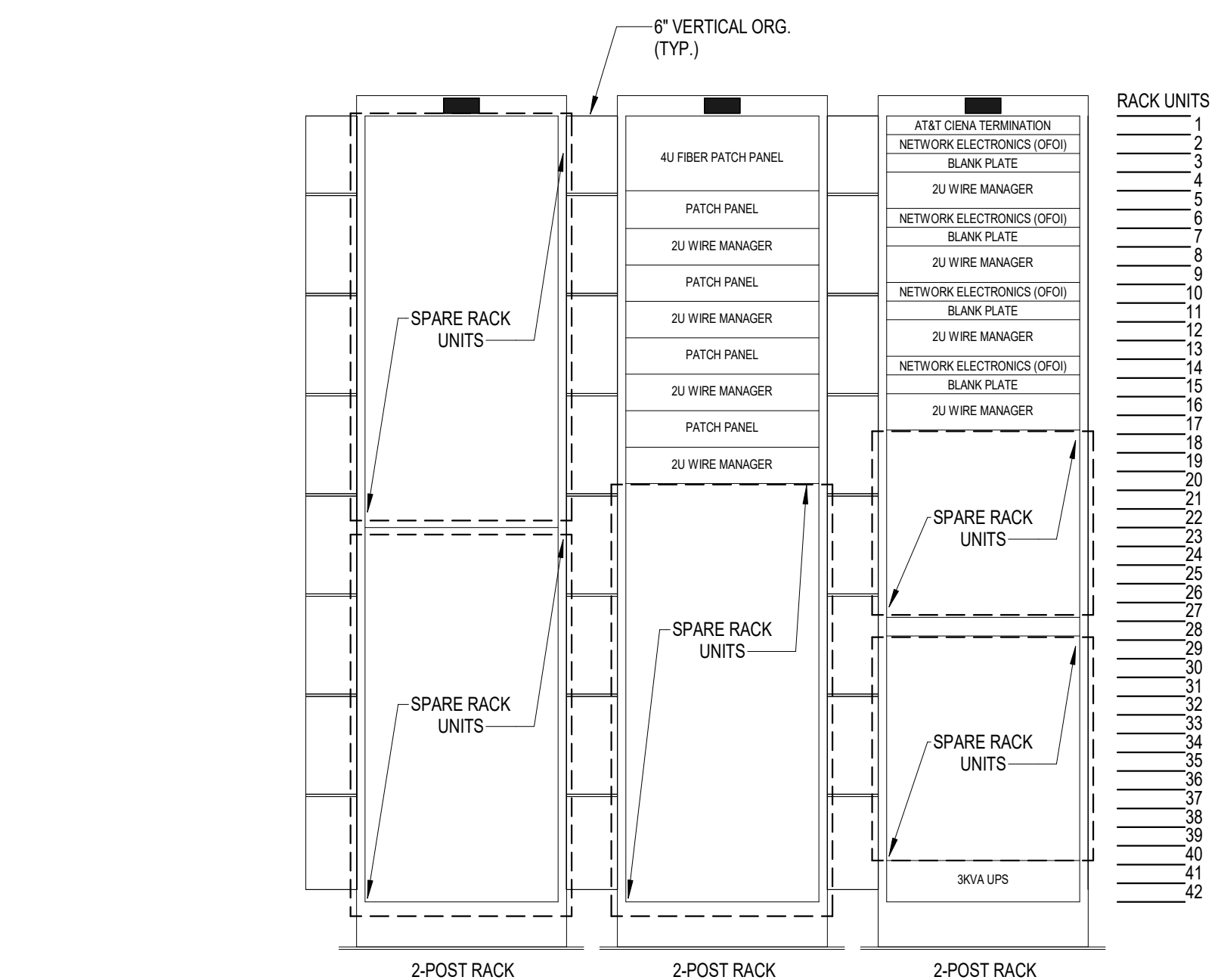


- NOTES:**
1. ALL GROUNDING SHOWN IS INSULATED WIRE, #6 AWG MINIMUM, UNLESS NOTED OTHERWISE.
 2. A MAXIMUM OF (3) RACKS PER EACH HOME-RUN TO TMGB/TGB SHALL BE ALLOWED.

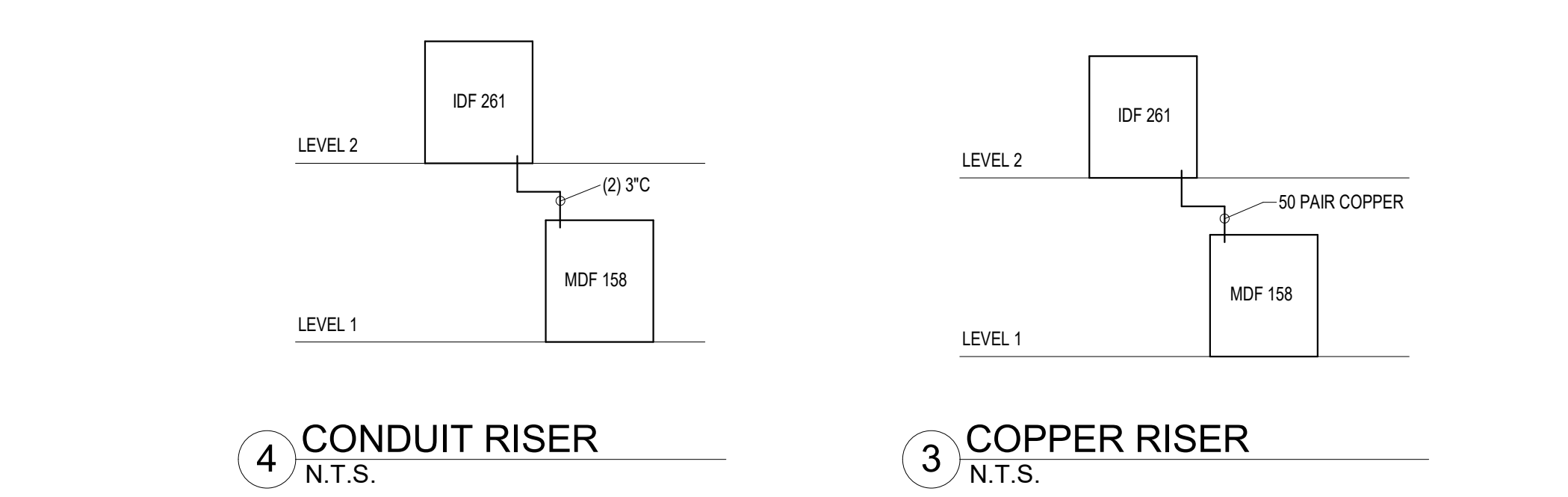
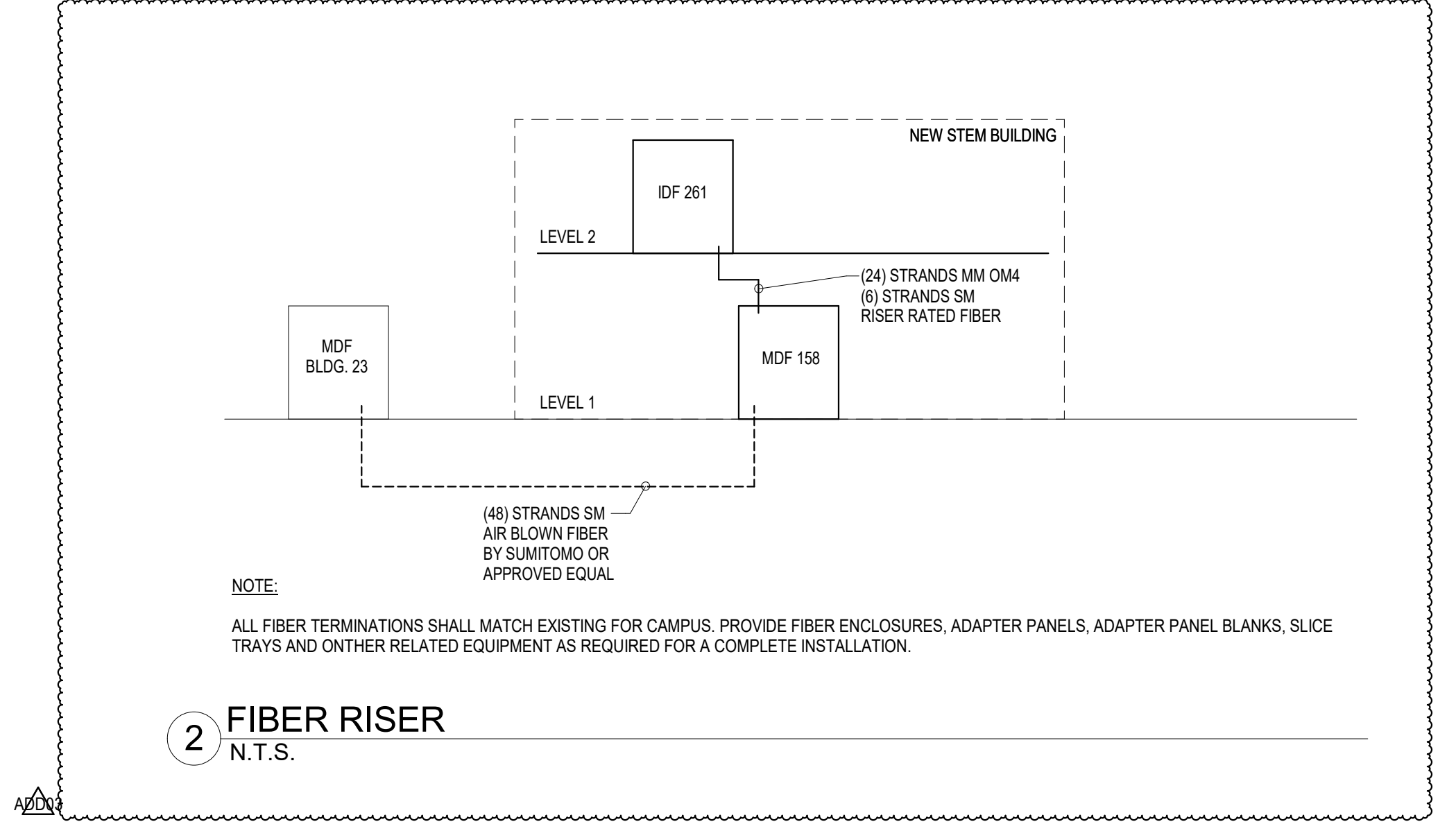
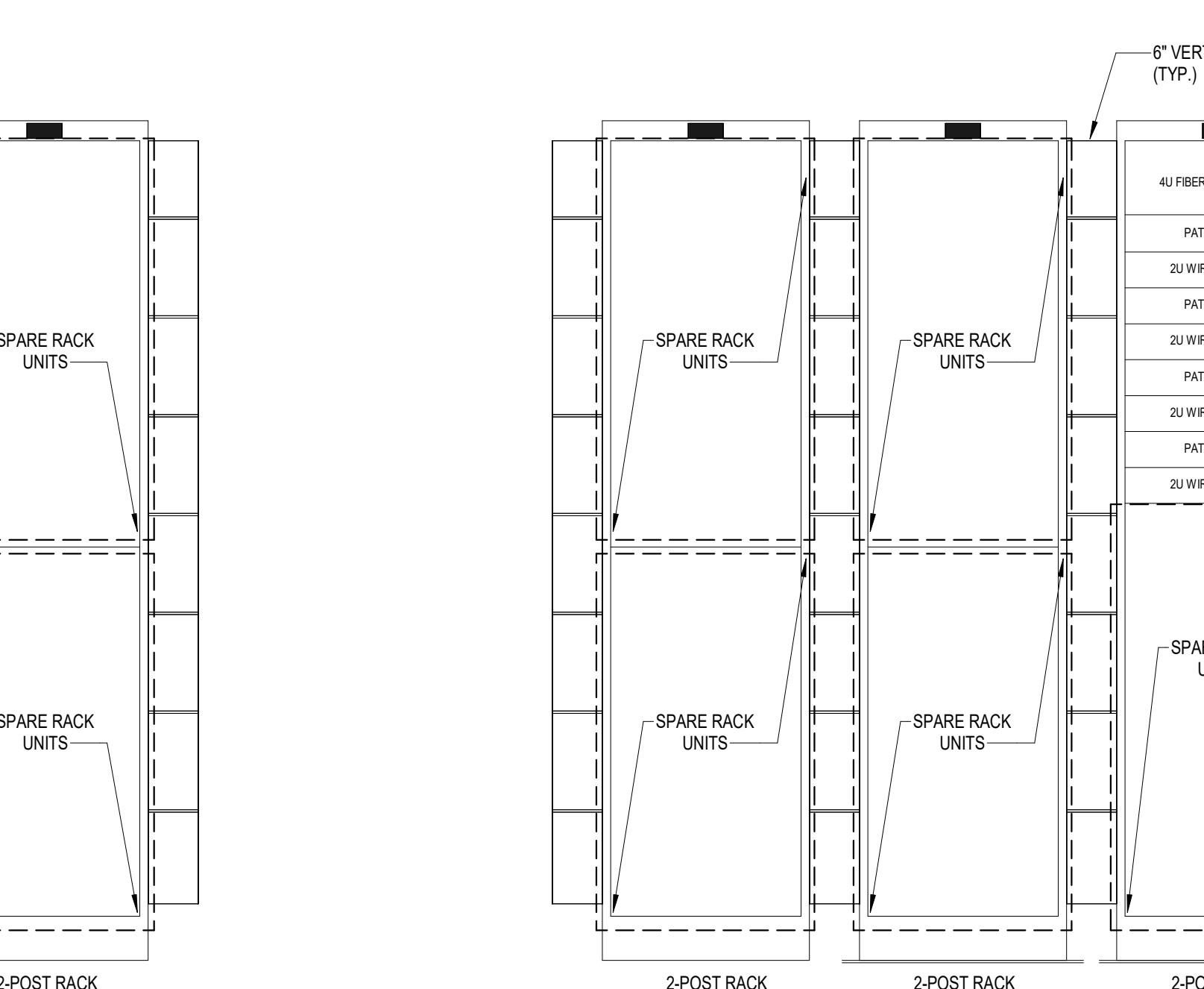
GROUNDING DETAIL, TELECOMMUNICATIONS ROOM
No Scale



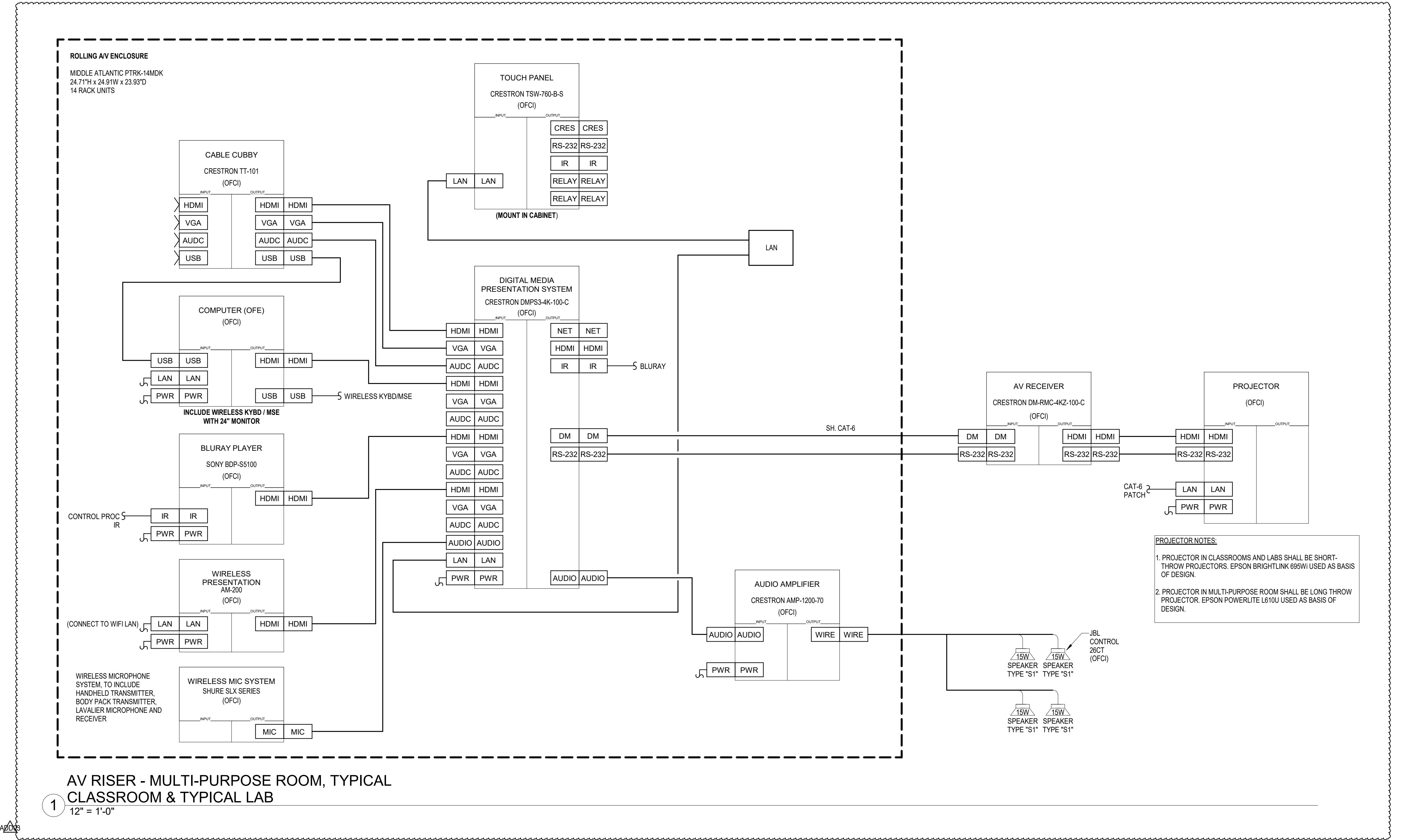
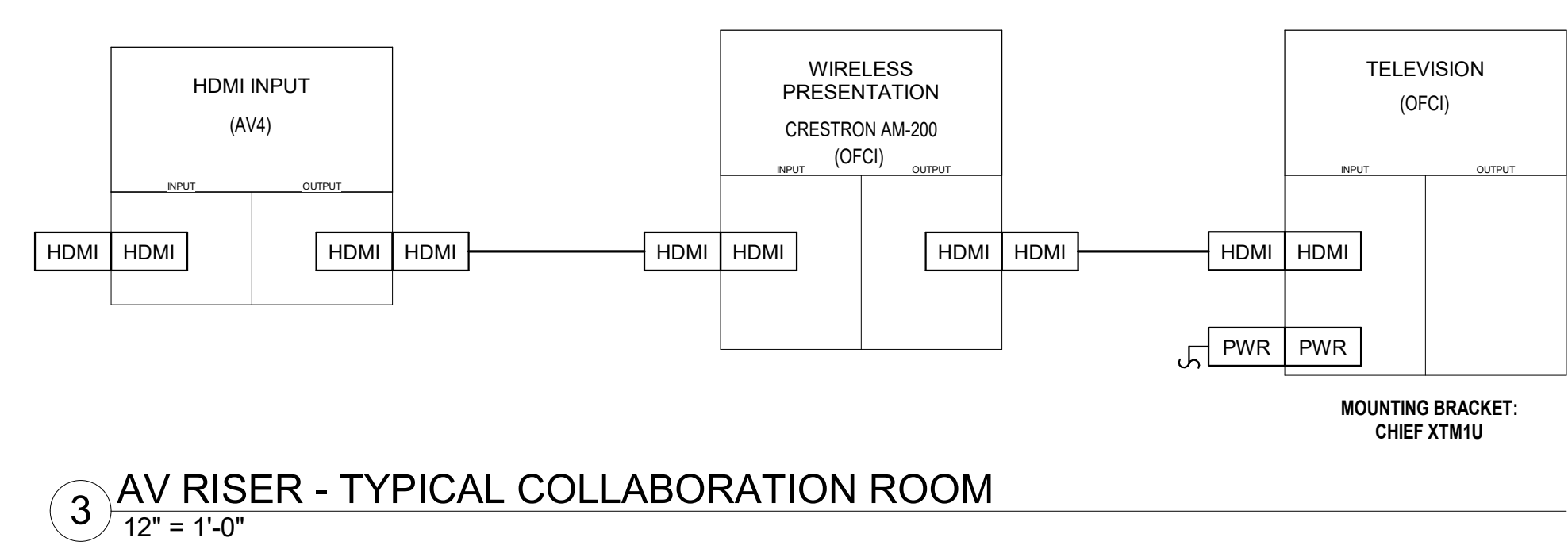
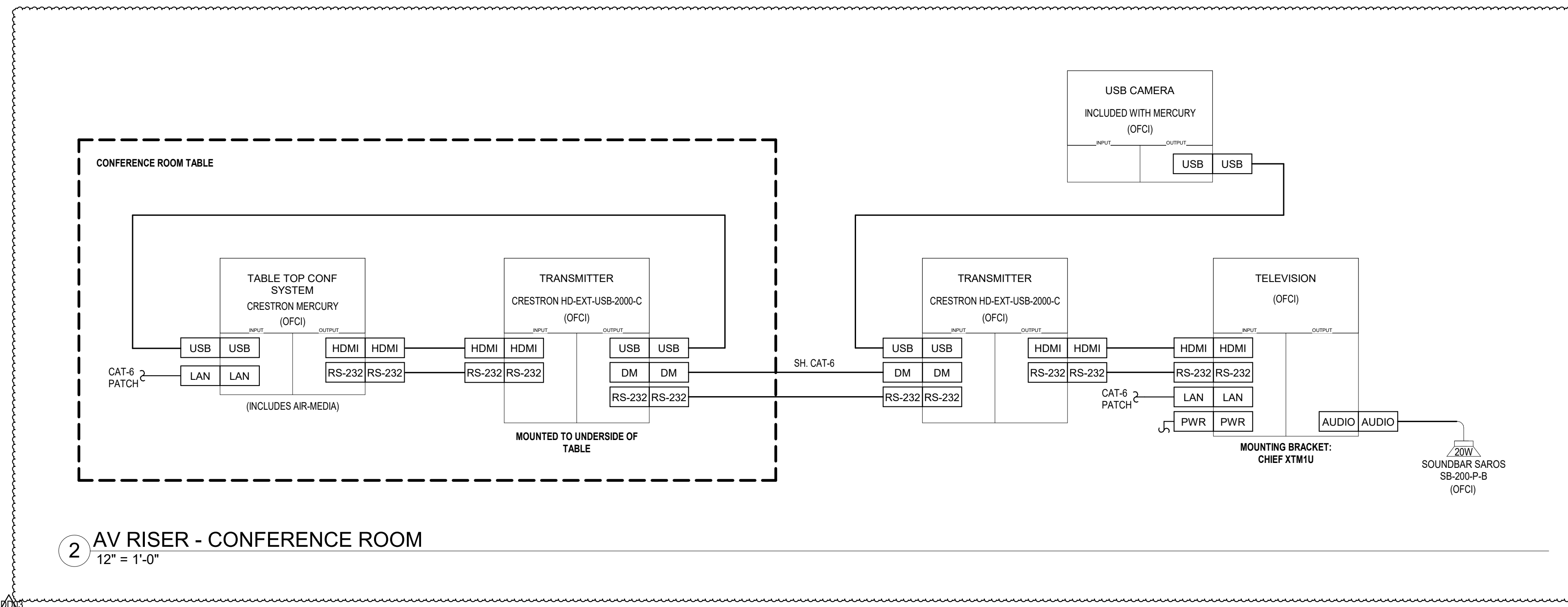
5 RACK ELEVATION - LEVEL 2 IDF
12" = 1'-0"



6 RACK ELEVATION - LEVEL 1 MDF
N.T.S.



4 CONDUIT RISER N.T.S. **3 COPPER RISER** N.T.S.



PROJECTOR NOTES:

1. PROJECTOR IN CLASSROOMS AND LABS SHALL BE SHORT-THROW PROJECTORS. EPSON BRIGHTLINK 6590I USED AS BASIS OF DESIGN.
2. PROJECTOR IN MULTI-PURPOSE ROOM SHALL BE LONG-THROW PROJECTOR. EPSON POWERLITE L610U USED AS BASIS OF DESIGN.

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AV LINE DIAGRAMS