



CLEARWATER TRAFFIC OPERATIONS BUILDING REMODEL

1650 N. ARCTURAS AVE,
CLEARWATER, FL 33765

100% CONSTRUCTION DOCUMENTS

L&A PROJECT NO. 24034

SEPTEMBER 24, 2024

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- E7.1 DETAILS
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PROJECT LOCATION

↑ REGIONAL MAP



PROJECT LOCATION

↑ LOCAL MAP



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TO THE BEST OF THE ARCHITECTS AND/OR ENGINEERS KNOWLEDGE THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS.

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COVER SHEET

G0.1

ABBREVIATIONS

A	AREA ANCHOR BOLT AIR CONDITIONING ALTERNATING CURRENT ACCESS FLOOR AMERICAN CONCRETE INSTITUTE ACOUSTICAL ACOUSTICAL CEILING TILE ADDITIONAL ADJUSTABLE ADJUTANT ADJUTANT AFF AHU AIA AISC AL ALM AMP AMT ANCD AP APT APP AR ARCH ASB ASHRAE ASME ASPH ASSOC ASTM AUTO AUX AVE AWI	AREA ANCHOR BOLT AIR CONDITIONING ALTERNATING CURRENT ACCESS FLOOR AMERICAN CONCRETE INSTITUTE ACOUSTICAL ACOUSTICAL CEILING TILE ADDITIONAL ADJUSTABLE ADJUTANT ADJUTANT AFF AHU AIA AISC AL ALM AMP AMT ANCD AP APT APP AR ARCH ASB ASHRAE ASME ASPH ASSOC ASTM AUTO AUX AVE AWI
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F	FA FACP FBRK FC FD FDC FDM FDR FE FEC FF FFE FG FH FHMS FHS FHW FJ FL FLG FLSHG FLR FP FPG FPM FPS FPL FOC FOF FOM FOS FR FRMG FRTL FS FT FTG FUR FV FZR	FIRE ALARM FIRE ALARM CONTROL PANEL FIRE BRICK FLANGE CONNECTION FLOOR DRAIN FIRE DEPARTMENT CONNECTION FOUNDATION FIRE DAMPER FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISHED FLOOR FINISHED FLOOR ELEVATION FROM FINISHED FLOOR FLANGED CONNECTION FIRE HYDRANT FLAT HEAD MACHINE SCREW FIRE HOSE STATION STEEL HEAD WOOD SCREW FINISH / FINISHED FLUSH JOINT FLOOR FLANGE FLASHING FLUORESCENT FIRE PROTECTION FIREPROOFING FEET PER MINUTE FEET PER SECOND FLAT FACE OF CONCRETE FACE OF FINISH FACE OF MASONRY FACE OF STUD FRAME FRAMING FIRE RETARDANT TREATED LUMBER FULL SIZE FEET FOOTING FURRING FLUSH VALVE FREEZER
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M	MAS MAT MAX MB MBF MC MD MECH MED MEZZ MFD MFR MFG MH MIL MIN MIR MISC MK ML MM MO MOD MOV MP MR MS MT MTD MTR MULL MW	BENDING MOMENT MASONRY MATERIAL MAXIMUM MARKER BOARD 1000 BOARD FEET MEDICINE CABINET MOTORIZED DAMPER MECHANICAL MEDIUM MEZZANINE MANUFACTURED MANUFACTURER MANUFACTURING MANHOLE MILITARY MINIMUM MIRROR MISCELLANEOUS MARK METAL LATH MILLIMETER(S) MASONRY OPENING MODEL MOVABLE MIDPOINT MOISTURE RESISTANT MOP SINK METAL THRESHOLD MOUNTED METAL METER MULLION MICROWAVE
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S	SANITARY SUPPLY AIR SOLID CORE SCHEDULE STRUCTURAL CLAY TILE SD SDN SEC SECT SERV SF SHT SHTG SIM SJJ SM SNDDP SPEC SPKR SPRKR SQ SQ FT SQ IN SQ YD SST STA STC STD STEEL STL STL JST STM STOR STRUC SUPPLY SUSP SW SY SYM SYMB SYS	SANITARY SUPPLY AIR SOLID CORE SCHEDULE STRUCTURAL CLAY TILE SMOKE DETECTOR STORM DRAIN SECONDARY SECTION SERVICE SQUARE FEET SHEET SHEATHING SIMILAR SAWCUT JOINT SMALL SOUNDPROOF SPEAKER SPRINKLER SQUARE SQUARE FEET SQUARE INCH SQUARE YARD STAINLESS STEEL STATION SOUND TRANSMISSION CLASS STANDARD STEEL STEEL JOIST STEAM STORAGE STRUCTURAL SUPPLY SUSPENDED SWITCH SYMBOL SYSTEM
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SYMBOL	DESCRIPTION
101	DOOR NUMBER, SEE SCHEDULE
A	WINDOW TYPE
A	PARTITION TYPE
1	ASSEMBLY TYPE
Number ASI # 88	REVISION TAG
1	NOTE TAG
888	EQUIPMENT TAG, SEE SCHEDULE
A99.9.9	INTERIOR ELEVATION
0	COLUMN CENTERLINE
1 A101	DETAIL
1 A101	SECTION
1 A101	EXTERIOR ELEVATION
FFE 135'-5 1/2"	FINISHED FLOOR ELEVATION
9'-0" AFF	FINISHED FLOOR ELEVATION

DIMENSIONING CONVENTIONS	
	ALIGN NEW PARTITION TO EXIST (VERIFY EXIST PARTITION CONSTRUCTION MATCHES NEW PARTITION CONSTRUCTION)
	TO/FROM THE FINISHED FACE OF NEW WALL CONSTRUCTION
	TO/FROM THE CENTER LINE OF NEW WALL CONSTRUCTION
	TO/FROM COLUMN CENTER LINES
	ALIGN / OF NEW PARTITION WITH / OF COLUMN
	ALIGN NEW PARTITION TO FINISH GWB FLUSH BOTH SIDES OF COLUMN
	ALIGN / OF NEW PARTITION TO / OF WINDOW MULLION

NOTES	
V	VOLTS
VA	VOLTS
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VEL	VELOCITY
VERT	VERTICAL
VF	VINYL FABRIC
VF	VERIFY IN FIELD
VIN	VINYL
VOL	VOLUME
VPR	VAPOR RETARDER
VT	VINYL TILE
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
W	WIDE(WIDTH)
W	WITH
W/O	WITHOUT
WANS	WAINSCOT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WD	WOOD
WF	WIDE FLANGE
WH	WALL HUNG
WIN	WINDOW
WP	WEATHER PROTECTED
WPT	WORK POINT
WT	WEIGHT
WTF	WALL TO WALL
WWF	WELODED WIRE FABRIC
X	TRANSFER
XFR	TRANSFER
XH	EXTRA HEAVY
XSTG	EXTRA STRONG
XXSTG	DOUBLE EXTRA STRONG
Y	
YD	YARD

MATERIALS LEGEND	
	CMU WALL, THICKNESS VARIES
	CMU WALL (RATED)
	BRICK VENEER
	STUD WALL, THICKNESS VARIES
	STUD WALL (RATED)
	EXISTING WALL TO REMAIN
	RIGID INSULATION
	CAVITY INSULATION
	INSULATION (BATT, BLANKET, OR FILL)
	WOOD (FINISHED)
	PLYWOOD (SMALL SECTION)
	PLYWOOD (LARGE SECTION)
	STEEL (LARGE SECTION)
	ROUGH LUMBER (CONTINUOUS)
	ROUGH LUMBER (INTERMITTENT)
	PRECAST CONC. OR CUT STONE
	CONCRETE
	COMPACTED FILL OR EARTH
	FINISHED GRADE

PARTITION TYPES	
	6" MTL STUDS @ 16" O.C., 5/8" GYP BOTH SIDES AND 3/4" PLYWOOD ONE SIDE, W/ 6" BATT INSULATION, 4" ABOVE CEILING
	3 5/8" MTL STUDS @ 16" O.C., 5/8" GYP BOTH SIDES, W/ 3 5/8" BATT INSULATION, TO CEILING
	3 5/8" MTL STUDS @ 16" O.C., 5/8" GYP BOTH SIDES, W/ 3 5/8" BATT INSULATION, 4" ABOVE CEILING

GENERAL NOTES	
A.	ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE GENERAL CONDITIONS OF THE CONTRACT AND THE PROJECT SPECIFICATIONS, INCLUDING THE REQUIREMENTS OF DIVISION ONE.
B.	ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FBC EIGHTH EDITION 2023 AND 2023 FLORIDA FIRE PREVENTION CODE.
C.	IN SOME CASES, THE REQUIREMENTS SET FORTH IN THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS EXCEED THE MINIMUM REQUIREMENTS OF THE CODE.
D.	THE CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL COORDINATE THE SEQUENCING AND EXECUTION OF ALL TRADES IN STRICT CONFORMANCE WITH THE REQUIREMENTS OF ALL CONSTRUCTION DRAWINGS AND CONTRACT DOCUMENTS.
E.	THE CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL MAINTAIN & PROTECT FROM DAMAGE ALL PORTIONS OF THE EXISTING FACILITY SCHEDULED TO REMAIN OR NOT INDICATED FOR DEMOLITION. ALL DAMAGED AREAS & ELEMENTS SHALL BE REPLACED TO MATCH EXISTING ADJACENT CONSTRUCTION IN ALL RESPECTS.
F.	PRIOR TO ANY DEMOLITION, THE CM, OWNER AND A/E SHALL WALK THROUGH THE PROJECT AND ESTABLISH A PUNCH LIST OF EXISTING CONDITIONS. ITEMS NOT IDENTIFIED AND LATER DAMAGED DUE TO CONSTRUCTION SHALL BE THE CONTRACTORS RESPONSIBILITY.
G.	FIELD VERIFY ALL DIMENSIONS PRIOR TO DEMOLITION WORK. COORDINATE AS REQ'D FOR NEW WORK.
H.	OWNER SHALL CAREFULLY REMOVE AND ABATE ASBESTOS.
I.	THE CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL PROTECT THE PUBLIC FROM CONSTRUCTION ACTIVITIES AND PROVIDE FOR A SECURE CONSTRUCTION SITE.

SYMBOL LEGEND	
	DETAIL
	SECTION
	EXTERIOR ELEVATION
	FINISHED FLOOR ELEVATION
	FINISHED FLOOR ELEVATION

PARTITION TYPES	
	6" MTL STUDS @ 16" O.C., 5/8" GYP BOTH SIDES AND 3/4" PLYWOOD ONE SIDE, W/ 6" BATT INSULATION, 4" ABOVE CEILING
	3 5/8" MTL STUDS @ 16" O.C., 5/8" GYP BOTH SIDES, W/ 3 5/8" BATT INSULATION, TO CEILING
	3 5/8" MTL STUDS @ 16" O.C., 5/8" GYP BOTH SIDES, W/ 3 5/8" BATT INSULATION, 4" ABOVE CEILING

NOTES	
CONFIRM VERTICAL STUD TO DECK @ 8'-0" O.C. TYP. BRACE AS REQ'D	PROVIDE LATERAL WALL BRACING AT 45° ANGLE TO ADJACENT WALLS PER MANUFACTURER RECOMMENDATIONS FOR LATERAL LOADS AS REQUIRED
BRACE TO ADJACENT WALL	CEILING
5/8" GYP BOARD CONT. EXPOSED PORTION	5/8" GYP BOARD
EXISTING WALL, SEE SECTION	3/4" PLYWOOD
TYPE D6	
TYPE C4	
TYPE B4	
TYPE E6	

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CLEARWATER TRAFFIC OPERATIONS BUILDING REMODEL

FOR
CITY OF CLEARWATER

1650 N. ARCTURUS AVE, CLEARWATER, FL 33765

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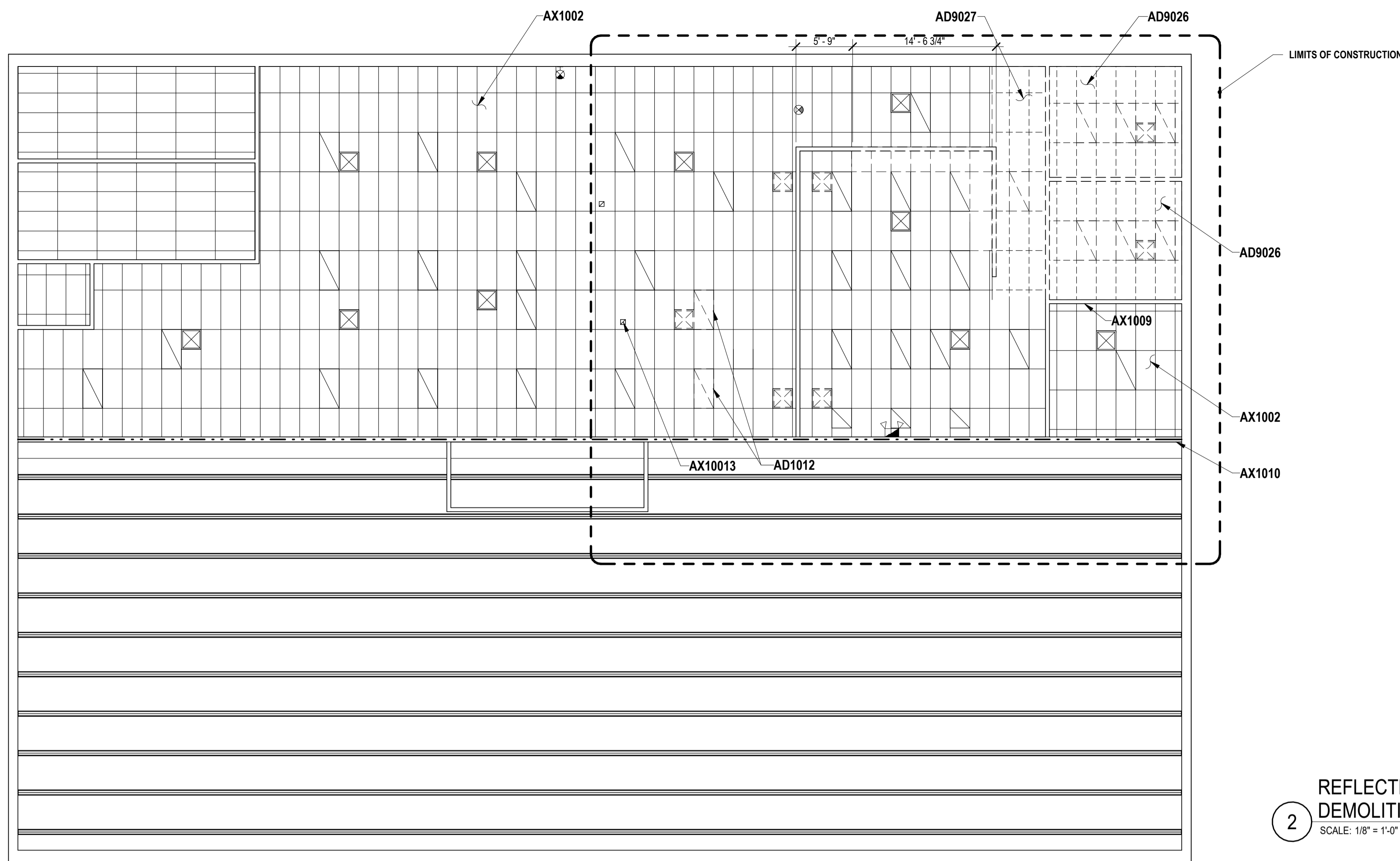
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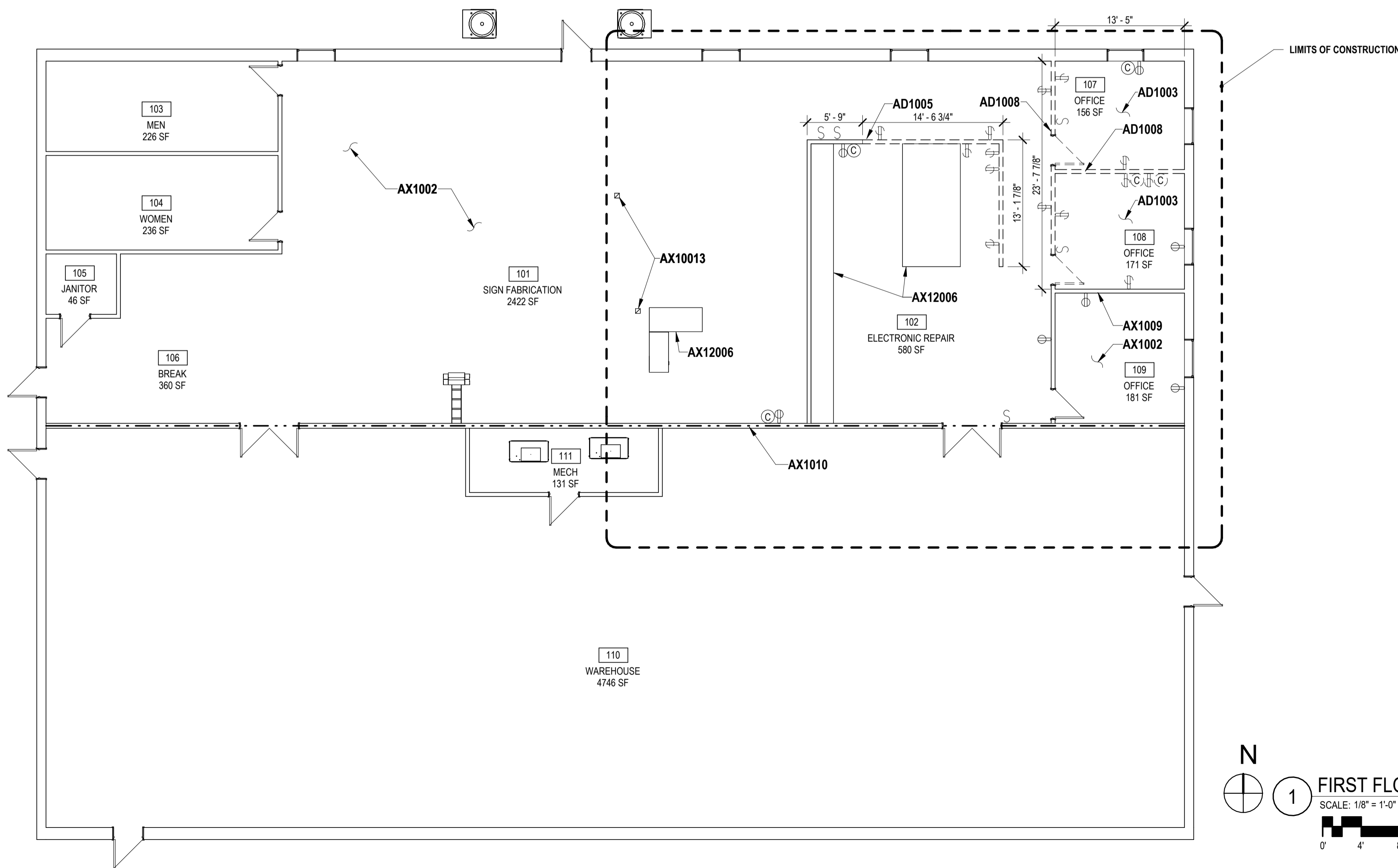
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ABBREVIATIONS, SYMBOL LEGEND, & MATERIALS LEGEND

G0.2



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



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

KEYNOTE LEGEND

NO.	DESCRIPTION
AD1003	CAREFULLY REMOVE EXISTING VCT FLOORING. CLEAN & CLEAR EXISTING FLOOR SLAB & PREPARE FOR NEW WORK
AD1005	CAREFULLY REMOVE PORTION OF EXISTING WALL & PREPARE FOR NEW WORK. PATCH EXISTING ADJACENT WALL. FINISH TO MATCH & SEE NEW WORK
AD1008	CAREFULLY REMOVE STUD WALL PARTITIONS, DOORS, FRAMES, & MISC ITEMS. FLOOR TO DECK & PREPARE SPACE FOR NEW WORK. TYPICAL AS SHOWN
AD1012	CAREFULLY REMOVE AND RETURN TO OWNER EXISTING LIGHT FIXTURES & PREPARE FOR NEW WORK. SEE ELECTRICAL DWGS
AD9026	CAREFULLY REMOVE EXISTING ACT SYSTEM & CEILING FIXTURES & PREPARE FOR NEW WORK. SEE ELECTRICAL & MECHANICAL DWGS
AD9027	CAREFULLY REMOVE PORTION OF EXISTING ACT SYSTEM AS REQUIRED & CEILING FIXTURES & PREPARE FOR NEW WORK. SEE ELECTRICAL & MECHANICAL DWGS
AX1002	EXISTING ROOMS TO REMAIN. NO NEW WORK IN AREA. PROTECT & MAINTAIN ROOM CONTENTS, HVAC, UTILITIES, ETC AS REQ'D
AX1009	PROTECT & MAINTAIN EXISTING WALL TO REMAIN. PATCH AS REQ'D TO MATCH
AX1010	EXISTING FIRE RATED PARTITION TO REMAIN. PROTECT & MAINTAIN
AX10013	EXISTING ELECTRICAL POWER POLE TO REMAIN. PROTECT & MAINTAIN. SEE ELECTRICAL DWGS
AX12006	EXISTING FURNITURE TO REMAIN. PROTECT AND MAINTAIN

REFLECTED CEILING PLAN LEGEND

⊙	CEILING VANCANCY SENSOR
□	TRANSFER GRILLE
⊠	EXHAUST FAN
⊞	SUPPLY AIR DIFFUSER
⊞	RECESSED FLUORESCENT 2x4 LIGHT FIXTURE
⊞	RECESSED FLUORESCENT 2x2 LIGHT FIXTURE
⊞	2x2' SUSPENDED CEILING GRID AND ACOUSTICAL PANEL
⊞	EXISTING POWER POLE
⊞	EXIT SIGN

DEMOLITION REFLECTED CEILING PLAN LEGEND

⊞	ACOUSTICAL GRID AND TILE CEILING SYSTEM TO BE DEMOLISHED
⊞	ACOUSTICAL GRID AND TILE CEILING SYSTEM TO REMAIN

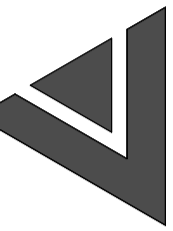
DRAWING KEY

⌣	NEW DOOR
—	NEW WALL
—	EXISTING WALL TO REMAIN
- - - - -	EXISTING WALL TO BE DEMOLISHED
⌣	EXISTING DOOR TO REMAIN
⌣	EXISTING DOOR TO BE DEMOLISHED
⌣	EXISTING WINDOW TO REMAIN
101	DOOR TAG
A	WALL TAG
101	EQUIPMENT / FURNITURE TAG
—	2-HR FIRE RATED WALL

CLEARWATER TRAFFIC OPERATIONS BUILDING REMODEL FOR CITY OF CLEARWATER

1650 N. ARCTURAS AVE, CLEARWATER, FL 33745

LONG & ASSOCIATES ARCHITECTS | ENGINEERS, INC



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FIRST FLOOR DEMOLITION PLAN & REFLECTED CEILING PLAN

AD1.1



N
 1 SITE PLAN
 SCALE: 1" = 30'-0"

**CLEARWATER TRAFFIC OPERATIONS
 BUILDING REMODEL**
 FOR
CITY OF CLEARWATER
 1650 N. ARCTURAS AVE, CLEARWATER, FL 33745

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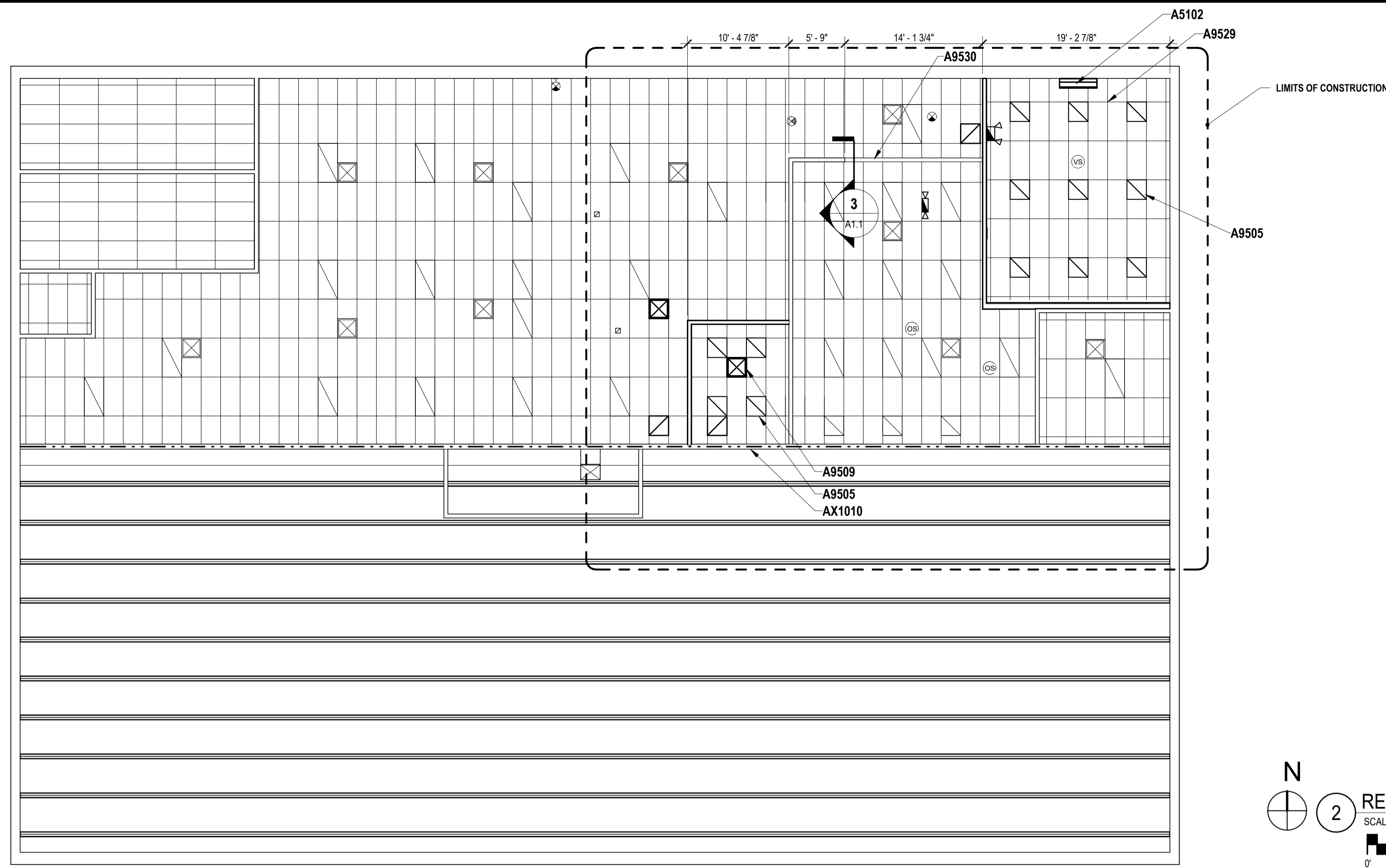
- GENERAL NOTES:**
1. THE CONTRACTOR SHALL RESTORE OR REPLACE ANY PUBLIC OR PRIVATE PROPERTY (SUCH AS HIGHWAY, DRIVEWAY, WALKWAY, AND LANDSCAPING), DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF CONSTRUCTION. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
 2. ALL UNPAVED SURFACES DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE GRADED, SODDED, & RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED BEFORE THE CONSTRUCTION.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF EXISTING PAVEMENT, PIPES, CONDUITS, SPRINKLER HEADS, CABLES, ETC., AND LANDSCAPED AREAS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS AND SHALL RESTORE AT NO ADDITIONAL COST.

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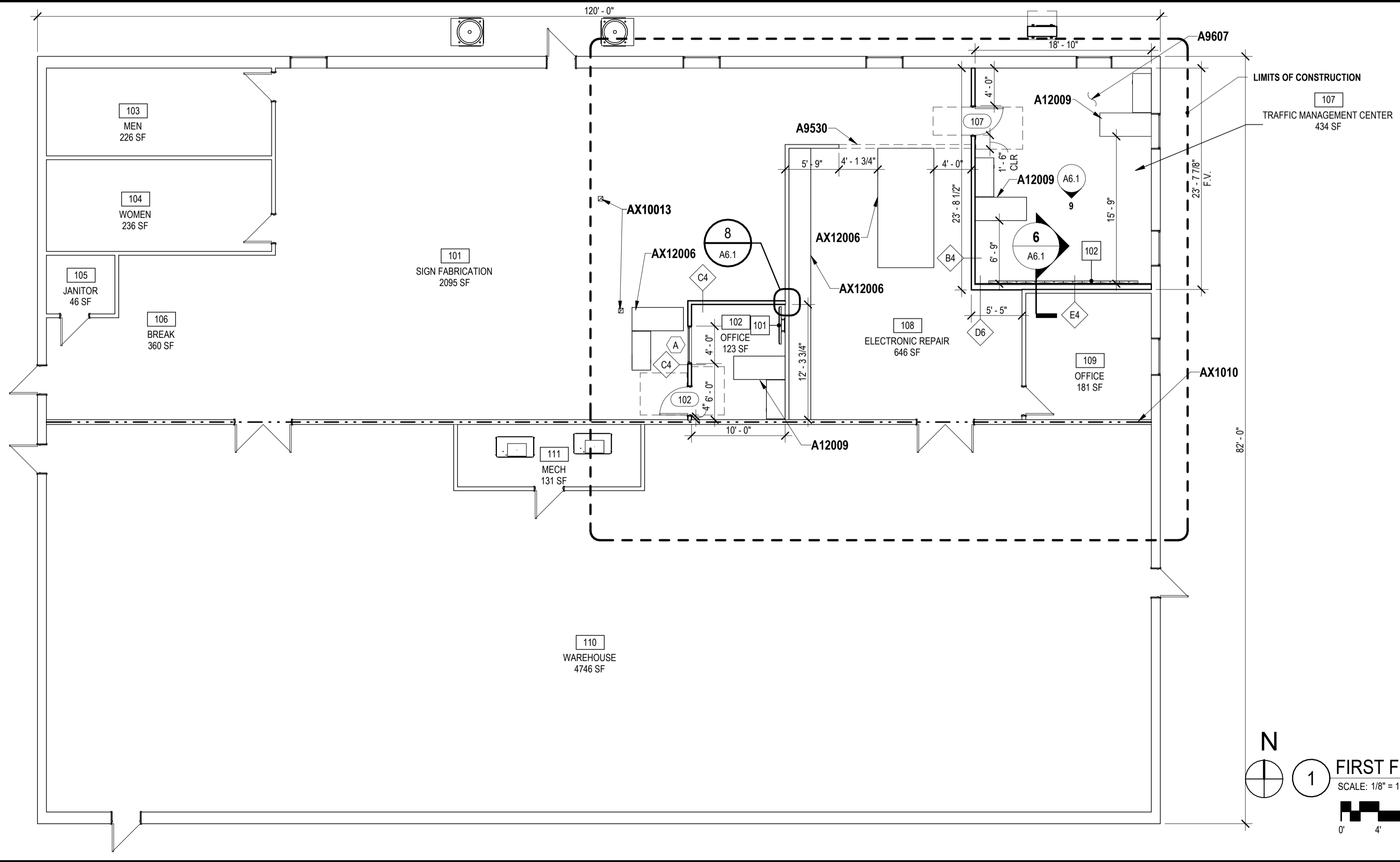
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SITE PLAN

A0.1

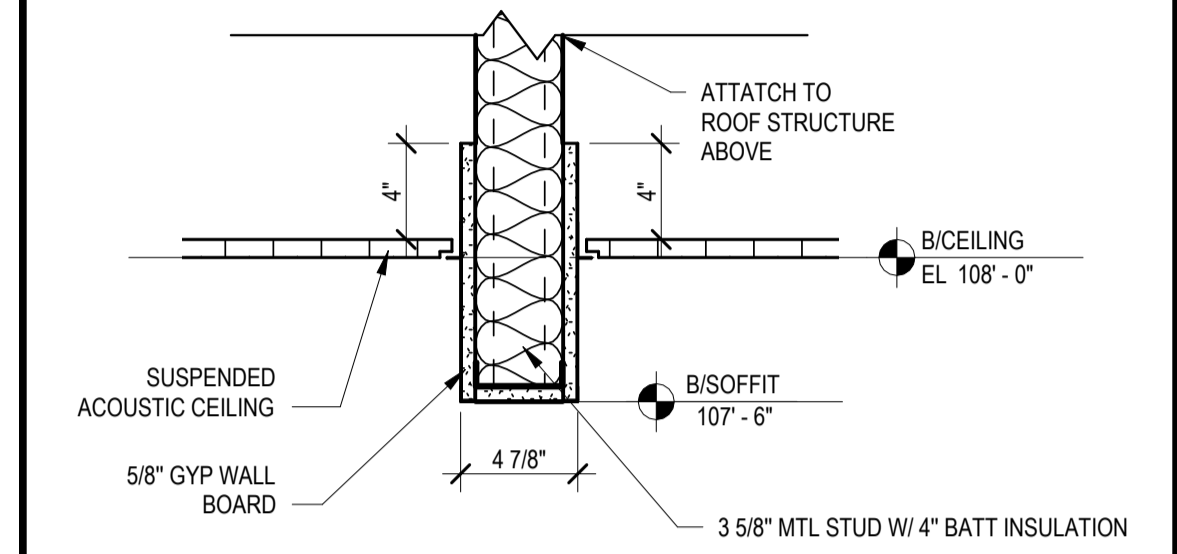


2 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'



1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

KEYNOTE LEGEND	
NO.	DESCRIPTION
A5102	NEW WALL MOUNTED AIR DEVICE, SEE MECH
A9505	NEW LAY-IN LIGHTING FIXTURE, SEE ELECTRICAL
A9509	MECHANICAL RETURN AIR GRILLES, REF MECHANICAL DRAWINGS
A9529	NEW 2'x4' SUSPENDED CEILING SYSTEM
A9530	NEW SOFFIT, SEE DETAIL
A9607	NEW CARPET, SEE FLOOR FINISH SCHEDULE
A12009	NEW FURNITURE, OWNER SUPPLIED
AX1010	EXISTING FIRE RATED PARTITION TO REMAIN, PROTECT AND MAINTAIN
AX10013	EXISTING ELECTRICAL POWER POLE TO REMAIN, PROTECT & MAINTAIN, SEE ELECTRICAL DWGS
AX12006	EXISTING FURNITURE TO REMAIN, PROTECT AND MAINTAIN



3 SOFFIT DETAIL
SCALE: 1 1/2" = 1'-0"

REFLECTED CEILING PLAN LEGEND	
VS	CEILING VANCANCY SENSOR
□	TRANSFER GRILLE
⊗	EXHAUST FAN
⊠	SUPPLY AIR DIFFUSER
▭	RECESSED FLUORESCENT 2'x4' LIGHT FIXTURE
▭	RECESSED FLUORESCENT 2'x2' LIGHT FIXTURE
▭	2'x2' SUSPENDED CEILING GRID AND ACOUSTICAL PANEL
⊞	EXISTING POWER POLE
⊙	EXIT SIGN

GENERAL EQUIPMENT LIST			
NO.	STATUS	DESCRIPTION	COMMENTS
101	B	WALL MOUNTED TV	
102	C	TVF Series LED Video Wall 9' X 16'	

ITEM STATUS LEGEND
 A - PROVIDED BY CONTRACTOR, INSTALLED BY CONTRACTOR
 B - PROVIDED BY OWNER, INSTALLED BY CONTRACTOR
 C - PROVIDED BY OWNER, INSTALLED BY OWNER

DRAWING KEY	
	NEW DOOR
	NEW WALL
	EXISTING WALL TO REMAIN
	EXISTING WALL TO BE DEMOLISHED
	EXISTING DOOR TO REMAIN
	EXISTING DOOR TO BE DEMOLISHED
	EXISTING WINDOW TO REMAIN
	DOOR TAG
	WALL TAG
	EQUIPMENT / FURNITURE TAG
	2-HR FIRE RATED WALL

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BUILDING REMODEL**
FOR
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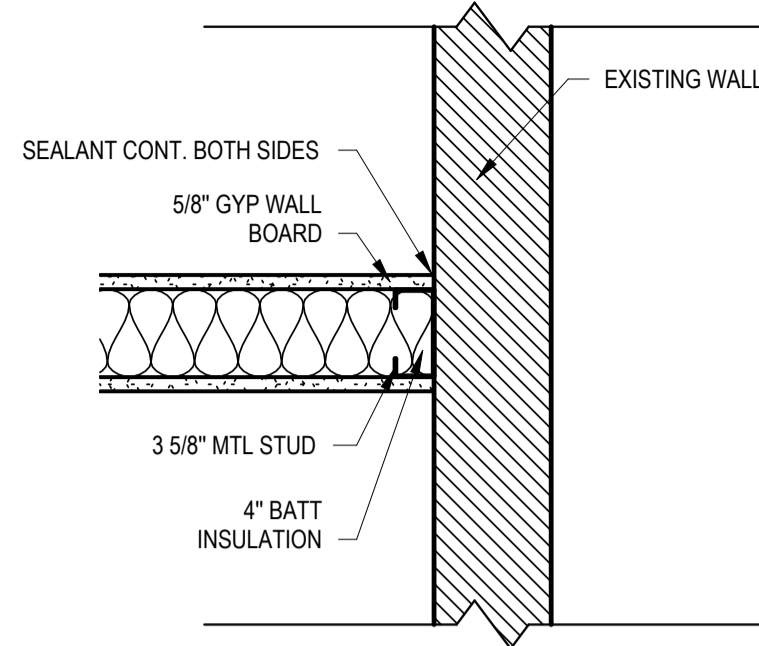
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**FIRST FLOOR PLAN &
REFLECTED CEILING PLAN**

A1.1



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

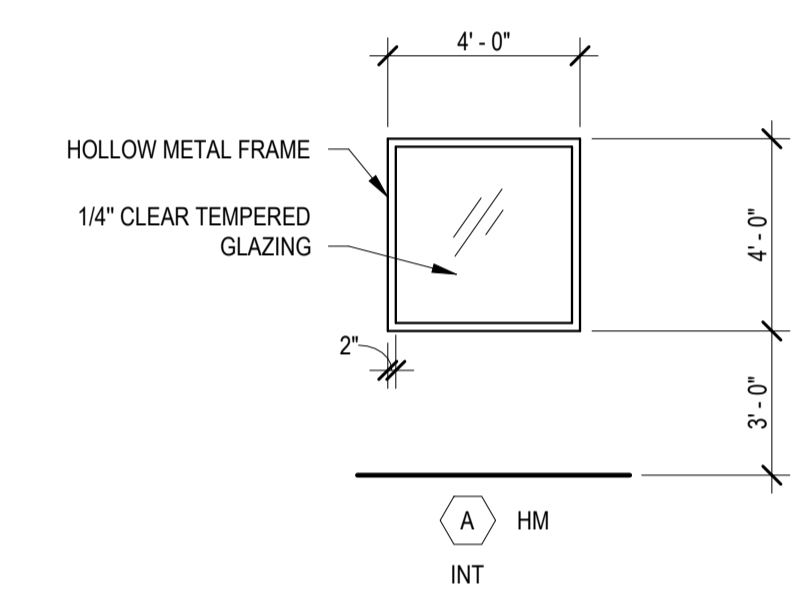
DOOR SCHEDULE													
DOOR					FRAME			DETAILS			REMARKS		
NO.	TYPE	PAIR	WIDTH	HEIGHT	MAT	RATING	FINISH	HW	TYPE	MAT		HEAD	JAMB
102	A		3'-0"	7'-0"	SCWD	N/A	NAT		1	HM	4/A6.1	3/A6.1	
107	A		3'-0"	7'-0"	SCWD	N/A	NAT		1	HM	4/A6.1	3/A6.1	6/A6.1

DOOR SCHEDULE LEGEND					DOOR HARDWARE						
ALUM	HM	MFR	NAT	P	PR	SCWD	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
ALUM	ALUMINUM										
HM	HOLLOW METAL						3	EA HINGE	3CB1 4.5 X 4.5	652	IVE
MFR	MANUFACTURER'S FINISH						1	EA WALL STOP	WS406 /407CCV	630	IVE
NAT	NATURAL FINISH						1	EA GASKETING	188SBK PSA	BK	ZER
P	PAINT										
PR	PAIR										
SCWD	SOLID CORE WOOD DOOR										

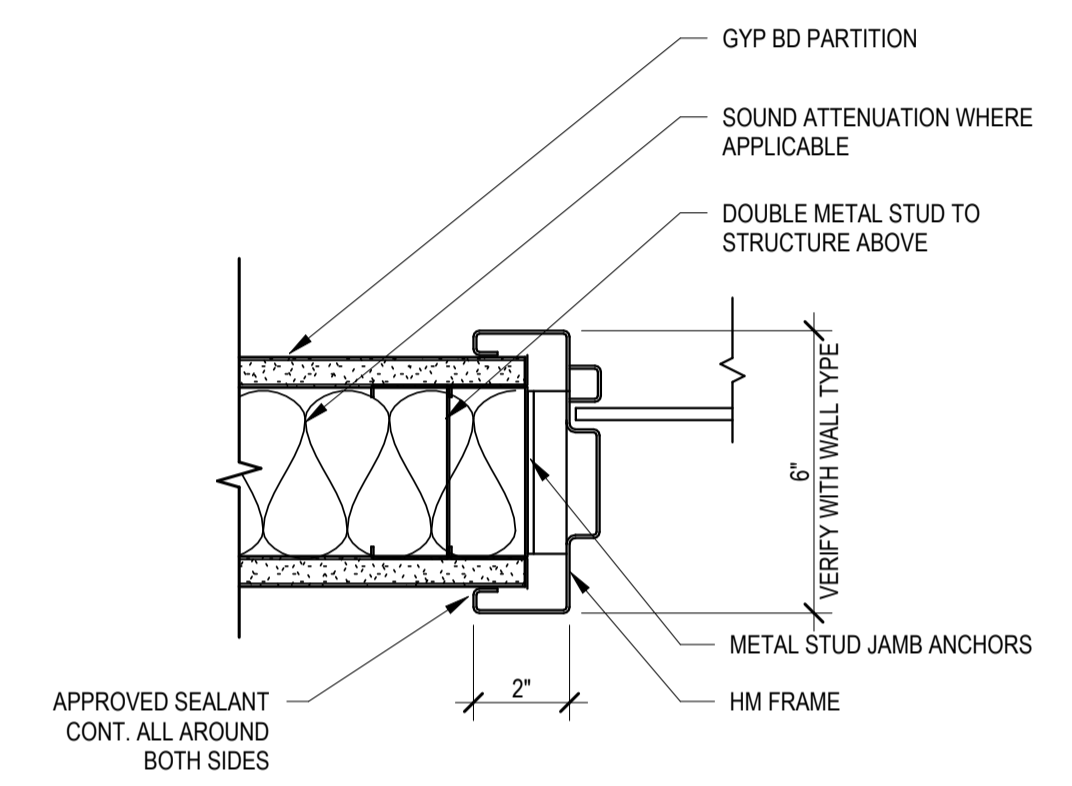
REUSE LOCK/LEVER HARDWARE FROM EXISTING REMOVED DOORS IN NEW DOORS

ROOM FINISH SCHEDULE										
NO.	NAME	FLOOR MAT/ FIN	BASE MAT	NORTH WALL MAT	EAST WALL MAT	SOUTH WALL MAT	WEST WALL MAT	CEILING		REMARKS
								MAT	HEIGHT	
101	SIGN FABRICATION	VCT EXST	EXST	EXST	EXST	EXST	EXST	ACT EXST	8'-0"	
102	OFFICE	VCT EXST	V	GYP/P	GYP EXST	GYP EXST	GYP/P	ACT EXST	8'-0"	
103	MEN	VCT EXST	EXST	EXST	EXST	EXST	EXST	ACT EXST	8'-0"	
104	WOMEN	VCT EXST	EXST	EXST	EXST	EXST	EXST	ACT EXST	8'-0"	
105	JANITOR	VCT EXST	EXST	EXST	EXST	EXST	EXST	ACT EXST	8'-0"	
106	BREAK	VCT EXST	EXST	EXST	EXST	EXST	EXST	ACT EXST	8'-0"	
107	TRAFFIC MANAGEMENT CENTER	CPT	V	GYP EXST	GYP EXST	GYP/P	GYP/P	ACT	14'-0"	COORDINATE CEILING HEIGHT WITH EXISTING STRUCTURE
108	ELECTRONIC REPAIR	VCT EXST	EXST	EXST	GYP/P	EXST	EXST	ACT EXST	8'-0"	
109	OFFICE	VCT EXST	EXST	EXST	EXST	EXST	EXST	ACT EXST	8'-0"	
110	WAREHOUSE									
111	MECH									

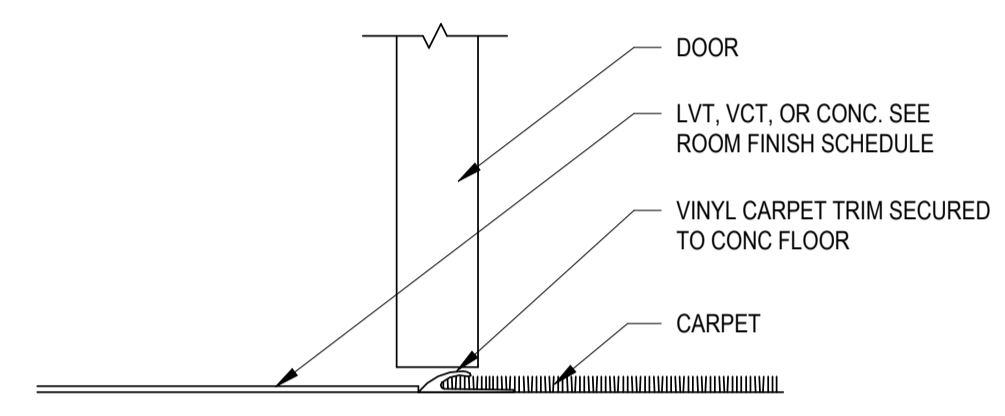
FINISH SCHEDULE LEGEND	
ACT	ACOUSTICAL CEILING TILE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
EXP	EXPOSED
EXST	EXISTING
GYP	GYPSUM WALL BOARD
P	PAINT
CPT	CARPET TILE
V	VINYL
VCT	VINYL COMPOSITION TILE



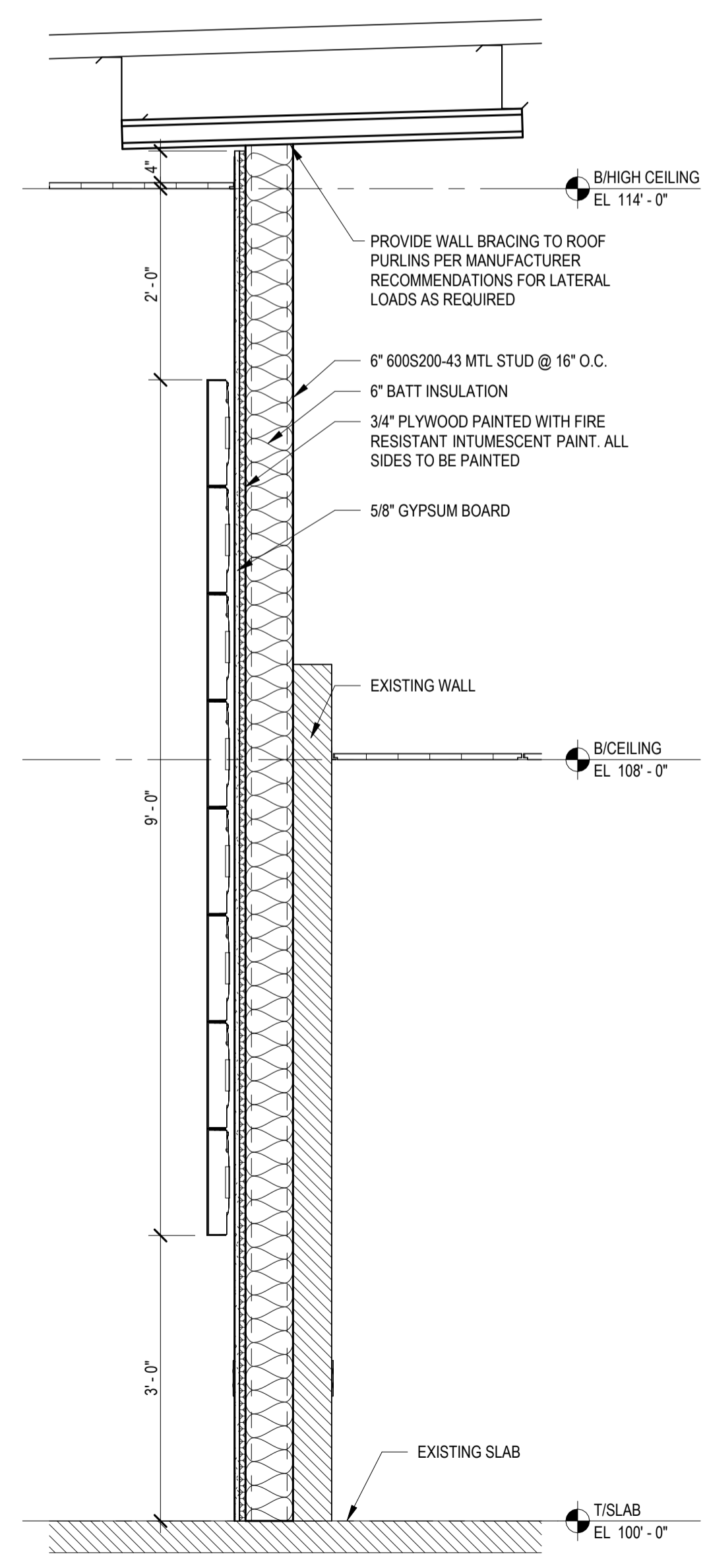
5 WINDOW TYPES
SCALE: 1/4" = 1'-0"



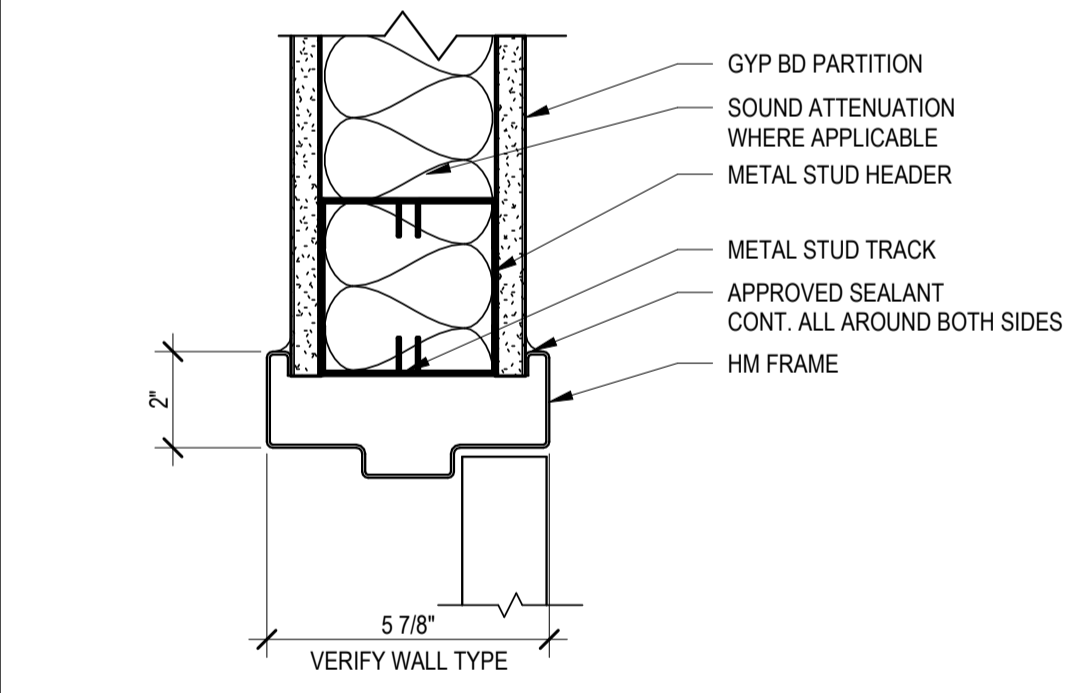
11 HM WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



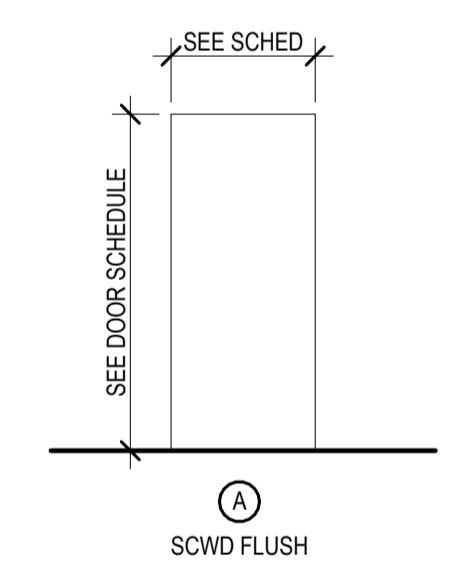
7 THRESHOLD DETAIL
SCALE: 3" = 1'-0"



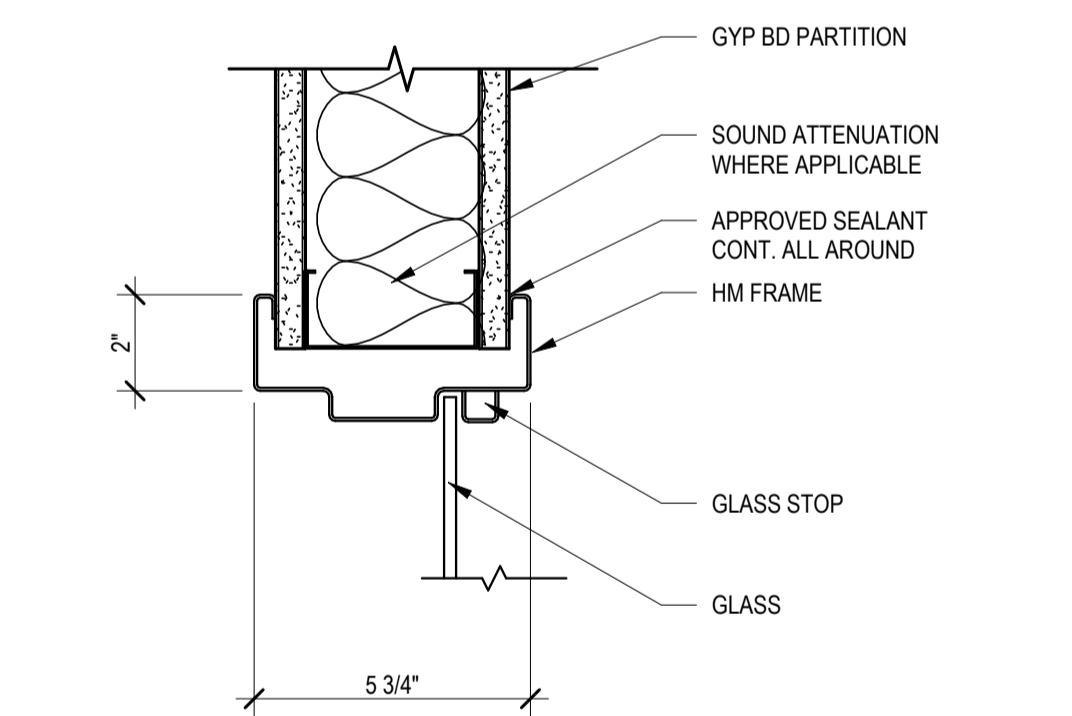
6 WALL SECTION
SCALE: 3/4" = 1'-0"



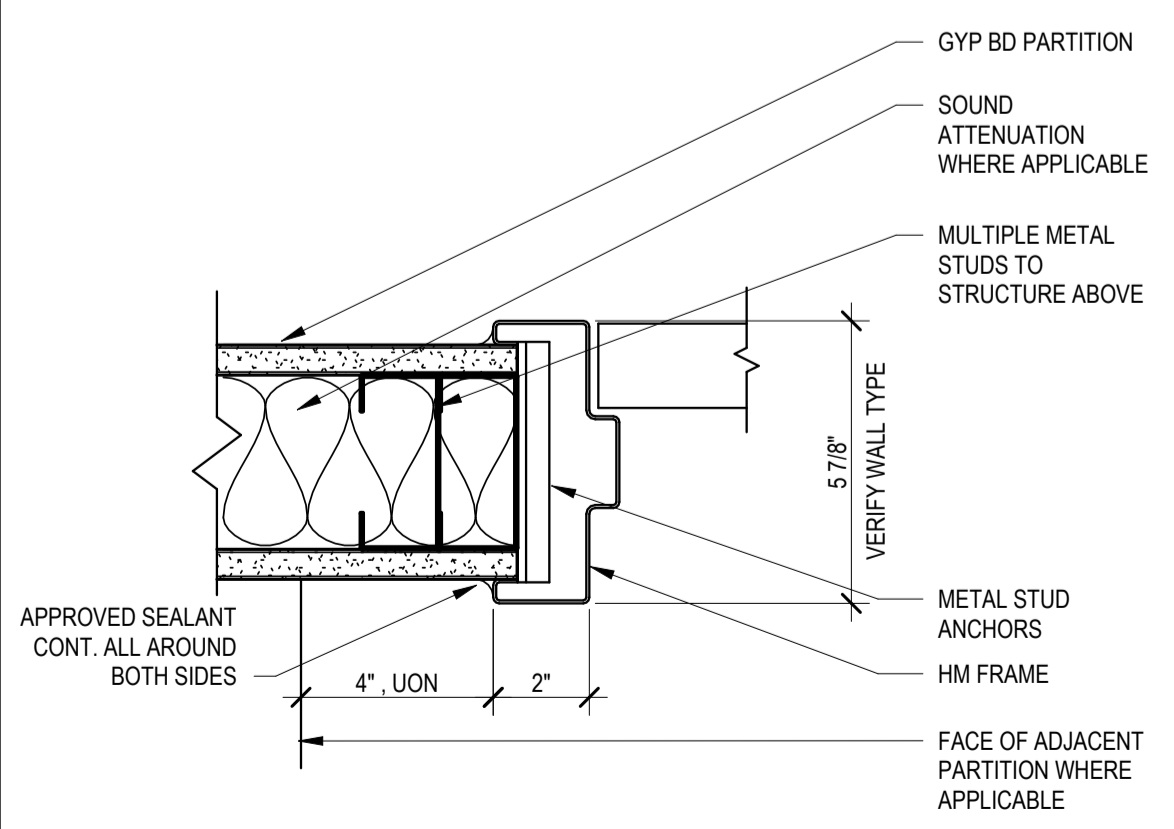
4 HEAD DETAIL
SCALE: 3" = 1'-0"



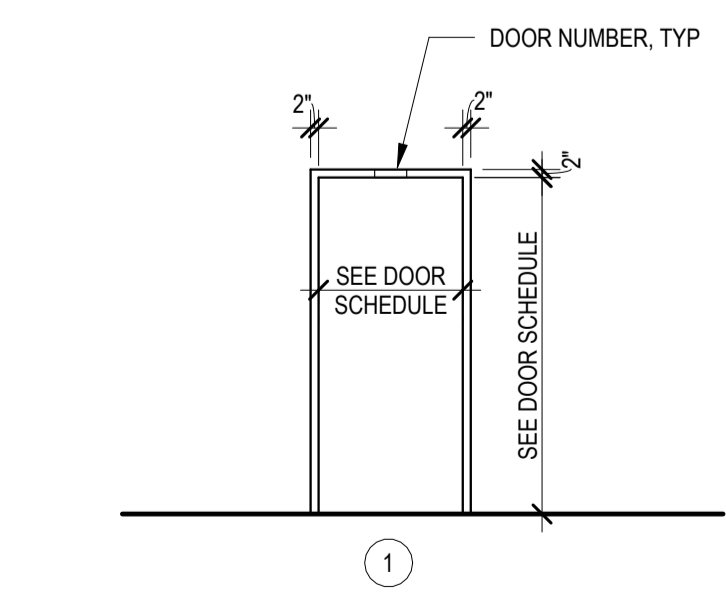
2 DOOR TYPES
SCALE: 1/4" = 1'-0"



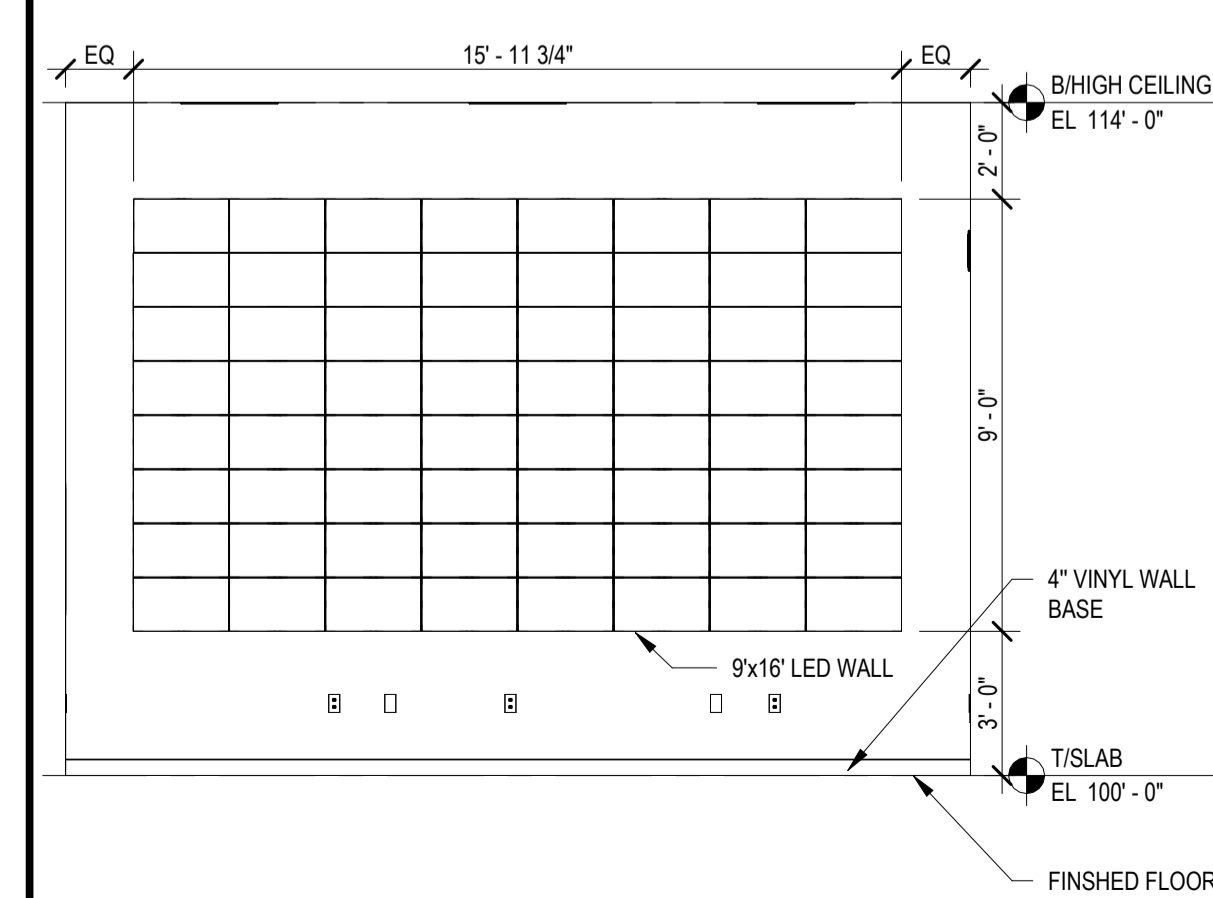
10 HM WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



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



1 DOOR FRAME TYPES
SCALE: 1/4" = 1'-0"



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

**CLEARWATER TRAFFIC OPERATIONS
BUILDING REMODEL**
FOR
CITY OF CLEARWATER

1650 N. ARCTURAS AVE, CLEARWATER, FL 33765

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Edward Smith, State of Florida, Registered Architect, License No. AR 101138
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EDWARD SMITH, A.A., AR 101138

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Phase: 100% CONSTRUCTION DOCUMENTS
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 Checked By: ES
 Job No: 24034
 Date: SEPTEMBER 24, 2024
 9/24/2024 9:43:36 AM

SCHEDULES AND DETAILS

CODE COMPLIANCE
THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023)

DESIGN CONDITIONS	
TEMPERATURES	SUMMER - OUTDOORS: 91°DB, 80°WB SUMMER - INDOORS: 75°DB, 62.5°WB (50% RH) WINTER - OUTDOORS: 32°DB WINTER - INDOORS: 70°DB
FRESH AIR	OFFICE SPACE - 5.0 CFM / PERSON + 0.06 CFM / FT² WORKSPACE - 7.5 CFM / PERSON + 0.12 CFM / FT²

HVAC GENERAL NOTES:

- A. ALL HVAC WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND NFPA REGULATIONS.
- B. DUCTWORK SHALL BE GALVANIZED STEEL. CONSTRUCT AND INSTALL PER ASHRAE AND SMACNA STANDARDS AND RECOMMENDATIONS.
- C. ALL RETURN AND EXHAUST DUCTWORK SHALL BE LOW PRESSURE (1" NEGATIVE), SEAL CLASS A.
- D. BEFORE FABRICATION, VERIFY AND COORDINATE ALL DIMENSIONS IN FIELD.
- E. SEE SMACNA STDS FOR WEIGHT, BRACING, REQUIREMENTS, ETC. OF DUCTWORK.
- F. ALL DUCTS SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS.
- G. FURNISH BUILDING ACCESS PANELS FOR ACCESS TO DEFLECTING AND BALANCING DEVICES IN DUCTS, FIRE DAMPERS, CONTROLS, ETC.
- H. DUCT SIZES AND OPENINGS THRU ROOFS, SLABS AND WALL PARTITIONS SHALL SUIT EQUIPMENT FURNISHED.
- I. COORDINATE DIFFUSER AND REGISTER LOCATIONS WITH BUILDING STRUCTURE, LIGHTING LAYOUT AND CEILING PLAN.
- J. DUCTWORK LOCATIONS AND CLEARANCES SHALL BE COORDINATED WITH ALL OTHER TRADES. PREPARE SHOP AND COORDINATION DRAWINGS AT A 1/4" = 1'-0" SCALE.
- K. ALL EQUIPMENT, DUCTWORK, ETC. SHALL BE SUPPORTED AS REQUIRED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE VIBRATION-FREE, RIGID INSTALLATION.
- L. ALL DUCT SIZES SHOWN ARE CLEAR INSIDE (SHEET METAL) DIMENSIONS. ALLOW CLEARANCES FOR INSULATION REFER TO SPECIFICATIONS FOR INSULATION THICKNESSES.
- M. INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS OR DIFFUSERS SHALL BE PAINTED FLAT BLACK.
- N. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, TRANSITIONS, DROPS, ETC. THAT MAY BE REQUIRED TO AVOID ALL OTHER BUILDING ELEMENTS. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED. OFFSETS IN DUCTS AND PIPING (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. IN GENERAL KEEP ALL DUCTWORK AS HIGH AS POSSIBLE. PREPARE COMPLETE COORDINATION AND SHOP DRAWINGS AS SPECIFIED.
- O. REFER TO MANUFACTURERS RECOMMENDATIONS REGARDING INSTALLATION OF EQUIPMENT.
- P. CONDENSATE DRAINS FROM AIR HANDLERS AND COILS SHALL BE COORDINATED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED. PROVIDE FULL SIZE DRAIN & TRAP FOR EACH UNIT.
- Q. ACCESS DOORS IN DUCTWORK & CEILINGS SHALL BE FURNISHED WHERE REQUIRED FOR OPERATION & MAINTENANCE OF ALL FANS, DAMPERS AND MECHANICAL EQUIPMENT.
- R. PROVIDE FIRE DAMPERS AND ACCESS DOORS IN ALL DUCTS THRU RATED WALLS OR SLABS.
- S. COORDINATE LOCATIONS OF HOLES IN WALLS, SLABS AND FLOOR SLAB WITH GENERAL CONTRACTOR. INSURE THAT DUCTS PENETRATING FLOORS ARE PLACED WITHIN THE CLEAR SPACE BETWEEN JOISTS BELOW.
- T. ALL TAPS FOR MEDIUM PRESSURE DUCTS RUNOUTS SHALL BE CONICAL OR BELLMOUTH (WITHOUT DAMPERS).
- U. ALL TAPS FOR LOW PRESSURE DUCT RUNOUTS SHALL BE AS INDICATED IN DRAWINGS AND DETAILS.
- V. ALL TAPS IN LOW PRESSURE DUCTS FOR DIFFUSERS AND DUCTWORK BRANCH TAKEOFFS SHALL HAVE AN ADJUSTABLE VOLUME DAMPER.
- W. PROVIDE DAMPERS IN EACH SUPPLY, RETURN, AND EXHAUST BRANCH FOR BALANCING.
- X. ALL RECTANGULAR ELBOWS SHALL HAVE DOUBLE THICKNESS TURNING VANES.
- Y. PROVIDE AUXILIARY SUPPORT CHANNELS FOR HEATERS, DUCTS, VAV BOXES, AND OTHER SUSPENDED EQUIPMENT.
- Z. ALL EXPOSED PIPING & DUCTWORK IN FINISHED SPACES SHALL BE FIELD PAINTED.
- AA. ALL LOW VOLTAGE AUTOMATIC TEMPERATURE CONTROL AND EMCS WIRING SHALL BE CONCEALED IN CONDUIT.
- BB. INSTALLATION OF AUTOMATIC TEMPERATURE CONTROL AND EMCS COMMUNICATIONS CONDUIT SYSTEM WITHIN BUILDINGS (WHERE REQUIRED) SHALL BE THE RESPONSIBILITY OF DIVISION 23. INSTALLATION OF AUTOMATIC TEMPERATURE CONTROL AND EMCS COMMUNICATION WIRING SHALL BE THE RESPONSIBILITY OF DIVISION 23.
- CC. ALL RETURN GRILLES SHALL BE PROTECTED BY FILTERS UNTIL TEST AND BALANCE IS DONE.
- DD. LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS SHOWN ON THE DRAWINGS ARE REFERENCE LOCATIONS ONLY. THE FINAL PLACEMENT OF THE DETECTOR IN THE DUCTWORK SHALL MEET THE REQUIREMENTS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A PRESSURE DIFFERENTIAL TEST AND THE MANUFACTURER'S TEST KIT. A COPY OF ALL TEST DATA WILL BE MADE AVAILABLE AT THE FINAL INSPECTION. PROVIDE READILY ACCESSIBLE DUCT ACCESS DOOR FOR INSPECTION AND SERVICING THE DETECTOR. DIVISION 28 SHALL PROVIDE ALL WORK ASSOCIATED WITH THE INSTALLATION OF THIS DETECTOR.
- EE. MECHANICAL CONTRACTOR SHALL SIZE AND INSTALL REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. REFRIGERANT PIPING SHALL BE TYPE "ADR" COPPER WITH BRAZED JOINTS. APPLY 3/4" CLOSED CELL INSULATION ON COMPRESSOR SUCTION LINE.
- FF. LOCATE THERMOSTATS 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED, IN ACCORDANCE WITH ADA.
- GG. ALL 3-PHASE MECHANICAL EQUIPMENT SHALL HAVE PHASE OUT DEVICES INSTALLED WITH AUTOMATIC RESET TO PROTECT THE UNITS IN THE EVENT POWER WERE TO SINGLE PHASE.
- HH. ALL DUCTS SHALL BE METAL EXTERIOR WRAPPED WITH FOIL-FACED BLANKET. LINED DUCT SHALL NOT BE USED. EXPOSED AREAS SEALED WITH MASTIC, DUCT BOARD, TAPE AND STAPLED EVERY EIGHT (8) INCHES.
- II. ALL OUTDOOR EQUIPMENT IS TO BE TIED DOWN / ANCHORED TO MEET COMPONENT CLADDING PRESSURES INDICATED ON THE DRAWINGS. PROVIDE SIGNED AND SEALED CALCULATIONS BY A SPECIALTY ENGINEER CURRENTLY REGISTERED IN THE STATE OF FLORIDA DURING THE SHOP REVIEW.

LEGEND

	DOMESTIC COLD WATER	BTU/H	BRITISH THERMAL UNITS PER HOUR
	REFRIGERANT SUCTION	CD	CEILING DIFFUSER
	REFRIGERANT LIQUID	CENT	CENTRIFUGAL
	REFRIGERANT HOT GAS	CFM	CUBIC FEET PER MINUTE
	GATE VALVE	COMPR	COMPRESSOR
	CHECK VALVE	CLG	CEILING
	RELIEF VALVE	CO	CLEANOUT
	UNION (DIELECTRIC IF REQUIRED)	CU	CONDENSING UNIT
	TEMPERATURE SENSOR WELL	DB	DRY BULB (°F)
	THERMO WELL	DL	DOOR LOUVER
	FLOW METER	DN	DOWN
	THERMOMETER IN SEPARABLE WELL	DP	DIFFERENTIAL PRESSURE
	PRESSURE GAUGE WITH NEEDLE VALVE	DX	DIRECT EXPANSION
	PRESSURE SENSOR TAP	EA	EACH
	BALL VALVE	EF	EXHAUST FAN
	STRAINER	EFF	EFFICIENCY
	GLOBE VALVE	EL	ELEVATION
	MANUAL BUTTERFLY VALVE	EMCS	ENERGY MGMT & CONTROL SYSTEM
	PUMP	ES	END SWITCH
	MOTORIZED DAMPER, OPPOSED BLADE	EXT	EXTERNAL
	MANUAL VOLUME DAMPER	°F	DEGREES FAHRENHEIT
	MOTORIZED DAMPER, PARALLEL BLADE	FC	FORWARD CURVE
	HOSE END DRAIN VALVE	FD	FIRE DAMPER
	FLEX DUCT	FD-X	FLOOR DRAIN
	90 ELBOW WITH TURNING VANES	FT	FEET
	SUPPLY AIR DIFFUSER OR GRILLE	FPM	FEET PER MINUTE
	RETURN/TRANSFER AIR REGISTER OR GRILLE	GPM	GALLONS PER MINUTE
	EXHAUST REGISTER OR GRILLE	GR	GRILLE
	SUPPLY DUCT SECTION	HB	HOSE BIBB
	EXHAUST AIR DUCT SECTION	HP	HORSEPOWER
	RETURN AIR DUCT SECTION	HZ	CYCLE
	DIRECTION OF BLOW 1-WAY, 2-WAY, 3-WAY OR 4-WAY	IN	INCHES
	FLEX DUCT CONNECTOR	KW	KILOWATTS
	FIRE DAMPER - VERTICAL	MAX	MAXIMUM
	DIFFERENTIAL PRESSURE	MBH	1,000 BRITISH THERMAL UNITS PER HOUR
	CURRENT SENSING RELAY	MFG	MANUFACTURER
	SWITCH (KEYED) - NIGHT OVERRIDE	MD	MOTORIZED DAMPER
	SWITCH - TIMER	MCB	MAIN CIRCUIT BREAKER
	SMOKE DETECTOR	NC	NOISE CRITERIA
	HUMIDISTAT	NK	NECK
	THERMOSTAT	NTS	NOT TO SCALE
	TEMPERATURE SENSOR, AVERAGING TYPE	OA	OUTSIDE AIR
	TEMPERATURE SENSOR, IMMERSION TYPE	OBD	OPPOSED BLADE DAMPER
	HUMIDITY SENSOR, DUCT MOUNTED	Δ P	DIFFERENCE IN PRESSURE
	CO2 SENSOR, DUCT MOUNTED	PL	PLACES
	VIBRATION SWITCH	PRV	POWER ROOF VENT
	MANUAL VOLUME DAMPER	PSI	POUND PER SQUARE INCH (GAUGE)
	ROUND, DIAMETER	RA	RETURN AIR
	FLAT OVAL	REG	REGISTER
	PHASE	RM	ROOM
	DOOR LOUVER (12x12 UON)	RPM	REVOLUTIONS PER MINUTE
	UNDERCUT DOOR (1" UON)	RS	ROOM SENSOR
	ACCESS DOOR (DUCT AND EQUIPMENT)	SA	SUPPLY AIR
	AIR DEVICE NO "X"	SD	SMOKE DETECTOR
	ABOVE FINISHED FLOOR	SP	STATIC PRESSURE
	AUTOMATIC TEMPERATURE CONTROL	SS	STAINLESS STEEL
	MOTORIZED SMOKE DAMPER, PARALLEL BLADE	SW	SWITCH
		TEMP	TEMPERATURE
		TYP	TYPICAL
		UC	UNDERCUT DOOR
		UON	UNLESS OTHERWISE NOTED
		V	VOLTS
		VAV	VARIABLE AIR VOLUME
		VD	VOLUME DAMPER (MANUAL)
		VTR	VENT THRU ROOF
		WB	WET BULB (°F)
		WG	WATER GAUGE
		XFR	TRANSFER
		BDD	BACKDRAFT DAMPER
		BOD	BOTTOM OF DUCT

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ARCHITECTS | ENGINEERS, INC

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CLEARWATER TRAFFIC OPERATIONS
BUILDING REMODEL

FOR
CITY OF CLEARWATER

1650 N. ARCURIAS AVE, CLEARWATER, FL 33765

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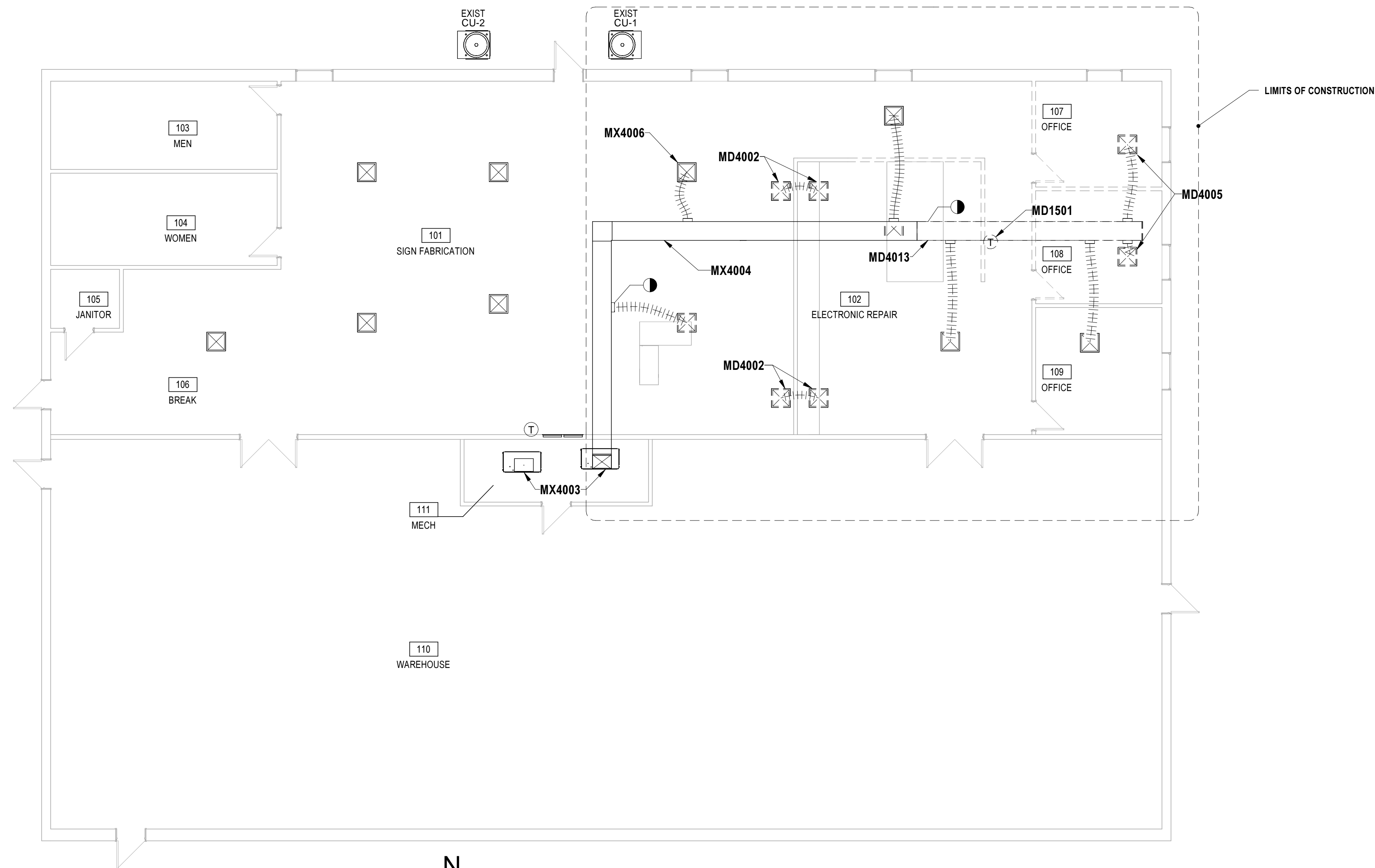
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GENERAL NOTES, LEGEND & DETAILS

M0.1



N
 1 DEMOLITION FLOOR PLAN
 SCALE: 1/8" = 1'-0"
 0 4 8 16'

KEYNOTE LEGEND

NO.	DESCRIPTION
MD1501	CAREFULLY REMOVE WALL MOUNTED THERMOSTAT. PROTECT AND SAVE FOR INSTALLATION AT NEW LOCATION.
MD4002	REMOVE EXISTING TRANSFER GRILLS AND FLEX DUCT.
MD4005	EXISTING SUPPLY AIR DEVICE TO BE DEMOLISHED (TYP.) REMOVE ALL ASSOCIATED DUCTWORK TO POINTS INDICATED. PREPARE FOR NEW WORK.
MD4013	REMOVE EXISTING OVERHEAD DUCTWORK TO POINTS INDICATED (TYP.) PREPARE FOR INSTALLATION OF NEW DUCTWORK.
MX4003	EXISTING AHU TO REMAIN.
MX4004	EXISTING DUCT TO REMAIN.
MX4006	EXISTING AIR DEVICE TO REMAIN (TYP.)

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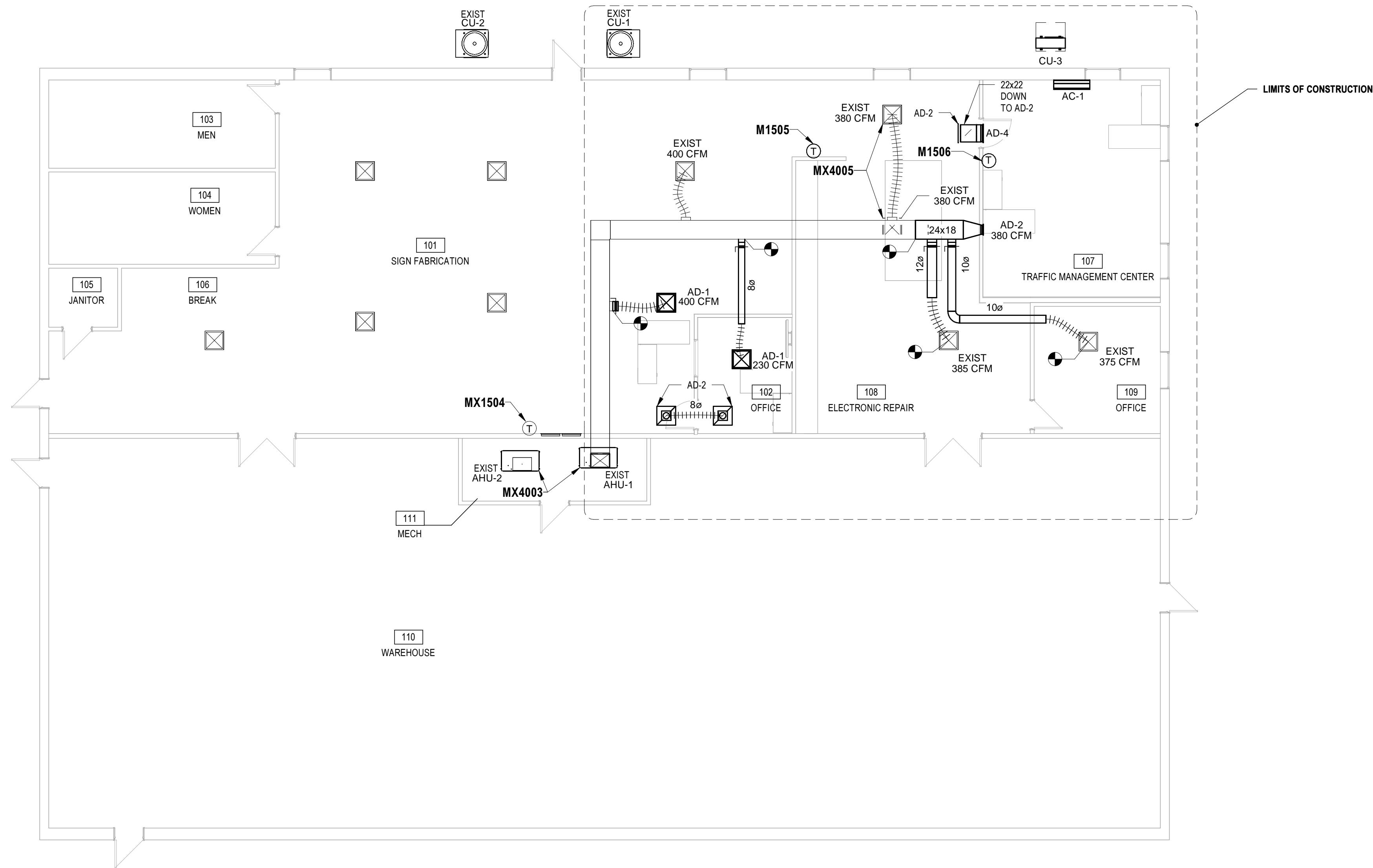
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DEMOLITION FLOOR PLAN

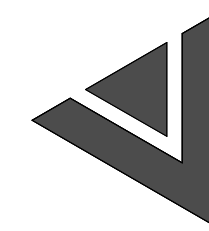
MD1.1



KEYNOTE LEGEND

NO.	DESCRIPTION
M1505	REINSTALLED WALL MOUNTED THERMOSTAT AT NEW LOCATION, COORDINATE WITH OWNER.
M1506	WALL MOUNTED THERMOSTAT, COORDINATE LOCATION WITH OWNER.
MX1504	EXISTING TEMPERATURE CONTROL THERMOSTAT TO REMAIN. PROTECT DURING CONSTRUCTION.
MX4003	EXISTING AHU TO REMAIN.
MX4005	EXISTING LAY-IN DIFFUSER. BALANCE TO CFM INDICATED IN PLANS (TYP).

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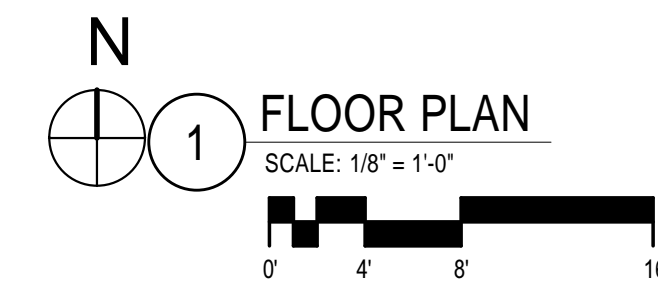
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FOR
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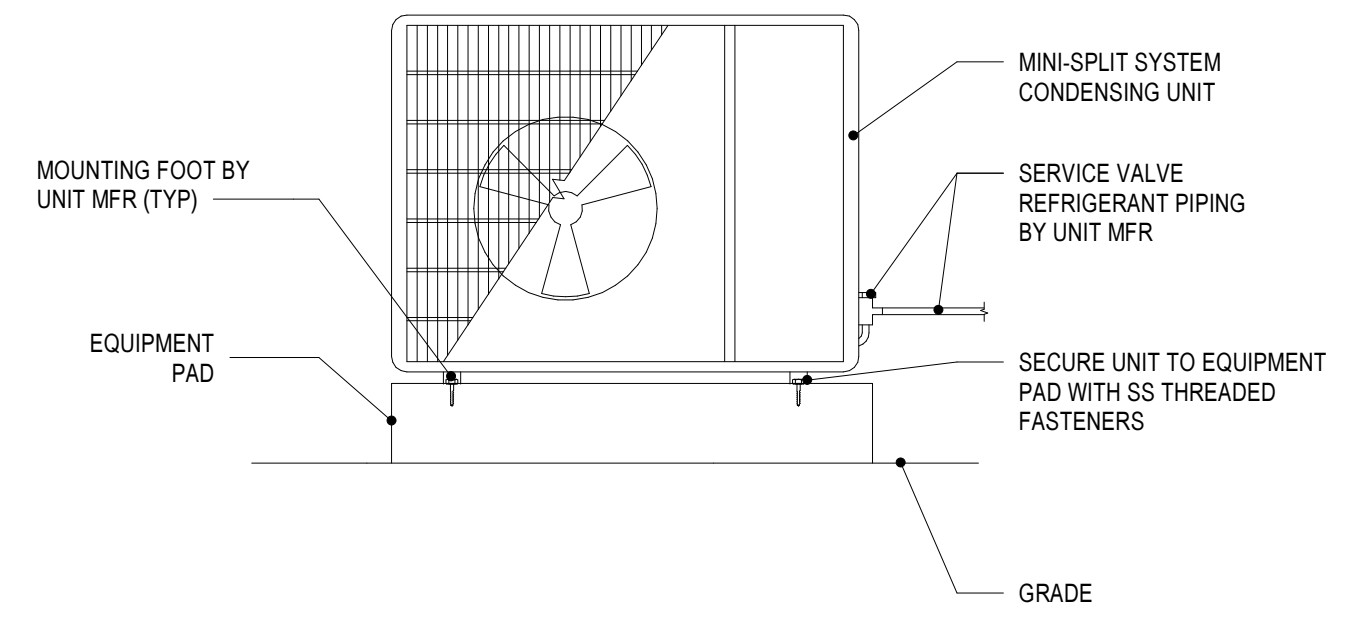
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FLOOR PLAN

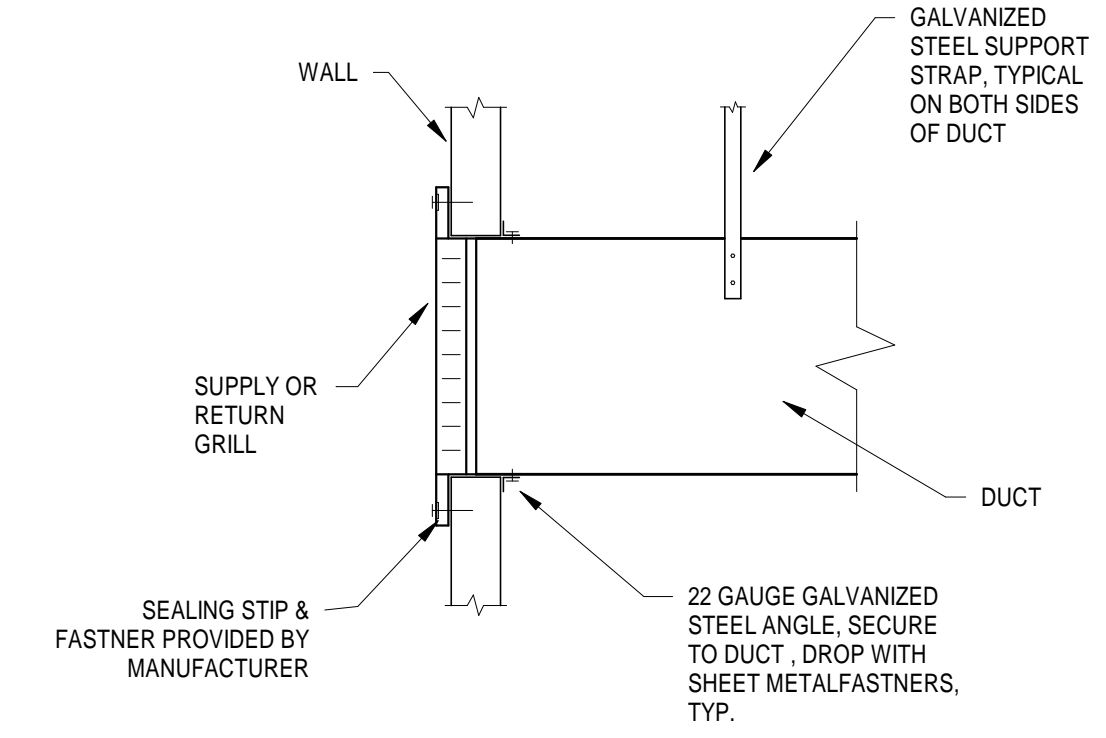
M1.1

NOTE: ANCHOR UNIT TO PAD TO WITHSTAND WIND LOADS AS INDICATED ON DRAWINGS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

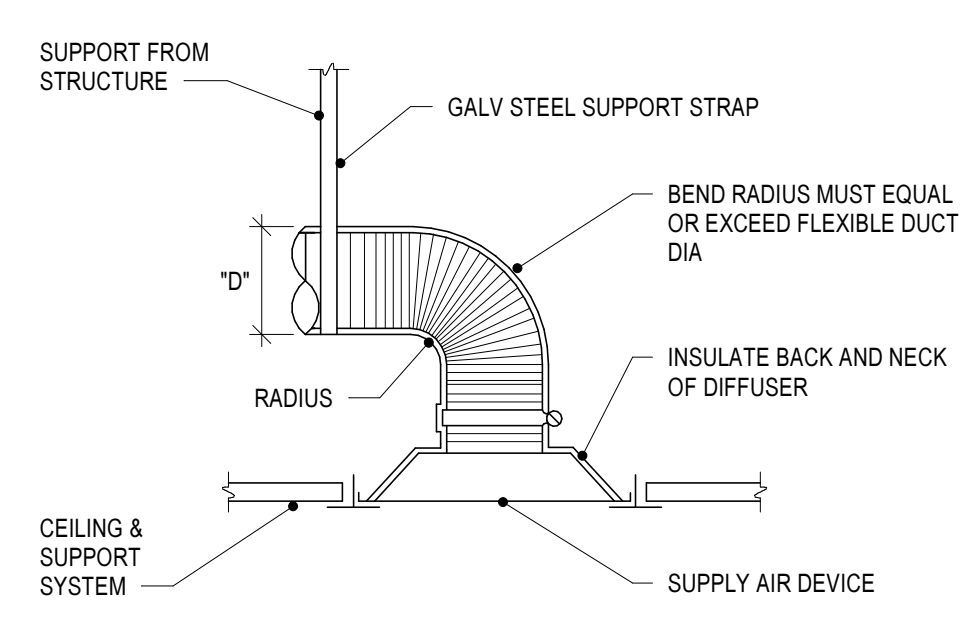
NOTE: ROUTE REFRIGERANT PIPING UP THE EXTERIOR OF THE WALL AND THROUGH TO THE WALL-MOUNTED EVAPORATOR. PROVIDE REFRIGERANT LINE INSULATION PER MFR. RECOMMENDATIONS. PROVIDE PAINTED, GALVANIZED SHEET METAL COVER FOR PIPING AND WIRING.



3 MINI-SPLIT CONDENSING UNIT MOUNTING
SCALE: NTS

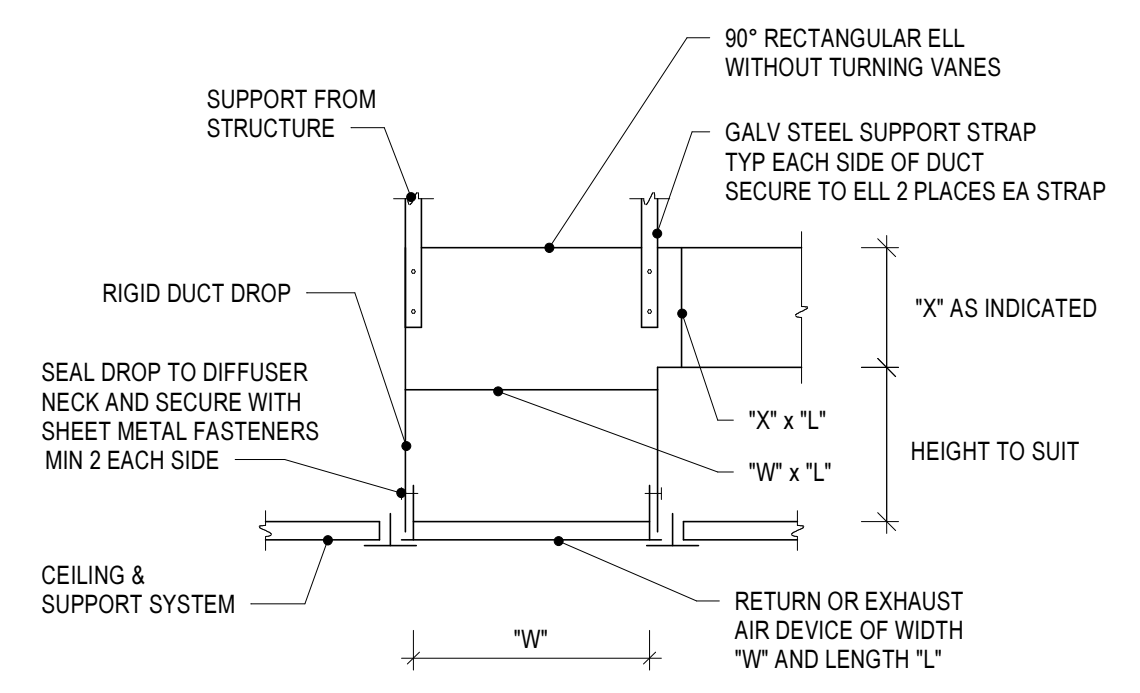


2 WALL MOUNTED GRILLE
SCALE: NTS



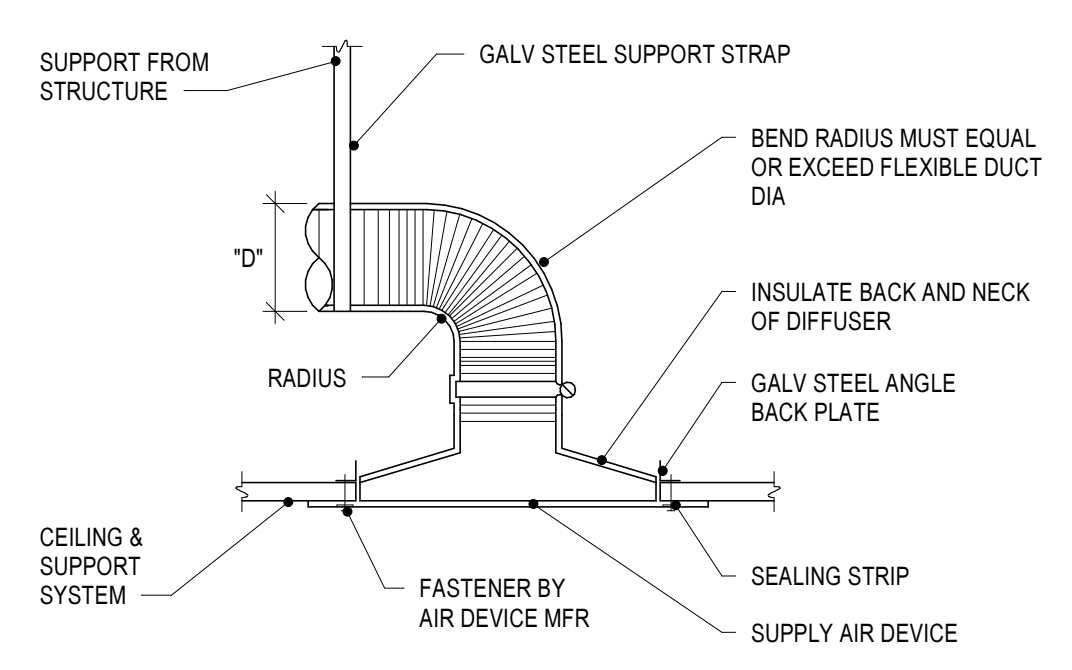
LAY-IN AND PANEL MOUNTED SUPPLY AIR DEVICES

NOTE:
PROVIDE RIGID DUCT CONNECTIONS FOR DUCTS LOCATED ABOVE INACCESSIBLE CEILINGS



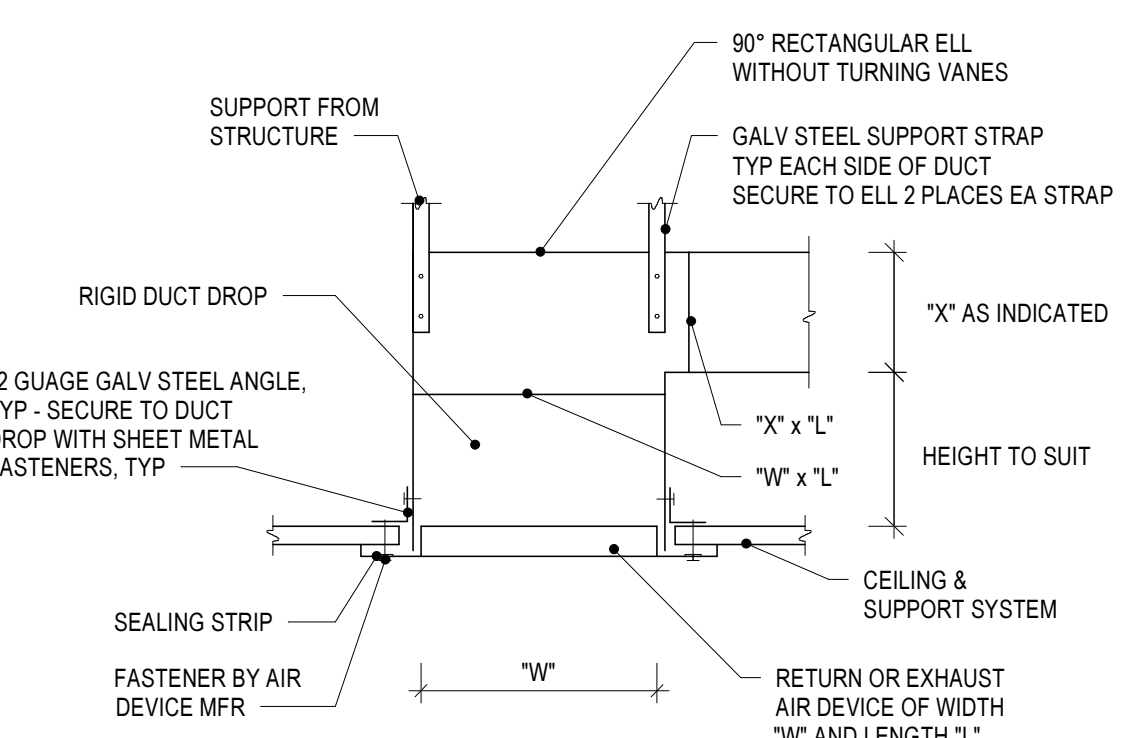
LAY-IN AND PANEL MOUNTED RETURN OR EXHAUST AIR DEVICES

NOTES:
1. INSULATION OMITTED FOR CLARITY.
2. PAINT INSIDE OF DUCTWORK THAT IS VISIBLE THROUGH AIR DEVICE FLAT BLACK.



SURFACE MOUNTED SUPPLY AIR DEVICES

NOTE:
PROVIDE RIGID DUCT CONNECTIONS FOR DUCTS LOCATED ABOVE INACCESSIBLE CEILINGS



SURFACE MOUNTED RETURN OR EXHAUST AIR DEVICES

NOTES:
1. INSULATION OMITTED FOR CLARITY.
2. PAINT INSIDE OF DUCTWORK THAT IS VISIBLE THROUGH AIR DEVICE FLAT BLACK.

1 AIR DEVICE CONNECTION DETAILS
SCALE: NTS

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DETAILS

M3.1

DUCTLESS SPLIT SYSTEM SCHEDULE												
TAG	COOLING	MAX COIL AIRFLOW	SEER	FAN FLA	COMP RLA	COMP MCA	MOCp	VOLTS	PHASE	MANUFACTURER	MODEL	NOTES
AC-1/ CU-3	30,000 BTU/HR	775	20.0	0.4	7.0	19	26	208/230	1	MITSUBISHI	PKA-A30KA/ PUY-A30-NHA7	ALL

NOTES:

- PROVIDE WITH SINGLE POINT POWER, INTEGRAL THERMOSTAT AND PERMANENT CLEANABLE FILTER.
- DISCONNECT BY DIVISION 26.
- PROVIDE WITH HURRICANE RATED EQUIPMENT PAD.
- STARTUP AND FIRST YEAR WARRANTY BY THE MANUFACTURER. 2ND THRU 5TH YEAR WARRANTY ON PARTS AND REFRIGERANT ONLY.
- ROUTE CONDENSATE PIPING AND ROUTE TO DRAIN AT EXTERIOR OF BUILDING IN GRASS AREA.

AIR DEVICE SCHEDULE													
MARK	SERVICE	TYPE FACE	BORDER	FACE SIZE	NECK SIZE	AIR VOLUME	MAX SP LOSS	MAX NC	MATERIAL	FINISH	MFR	MODEL	REMARKS
AD-1	SUPPLY	SQUARE CONE	LAY-IN	24x24	SEE PLANS	SEE PLANS	0.10	20	ALUMINUM	WHITE	PRICE	ASCD	1, 2
AD-2	TRANSFER	EGG CRATE	LAY-IN	24x24	SEE PLANS	SEE PLANS	0.10	20	ALUMINUM	WHITE	PRICE	80	1, 2
AD-3	SUPPLY	LOUVERED FACE	WALL MOUNTED	12x8	SEE PLANS	SEE PLANS	0.10	20	ALUMINUM	WHITE	PRICE	620	1, 2, 3
AD-4	TRANSFER	LOUVERED FACE	WALL MOUNTED	24x16	SEE PLANS	SEE PLANS	0.10	20	ALUMINUM	WHITE	PRICE	630	1, 2, 3

SCHEDULE NOTES:

- FLEX DUCT SIZE TO MATCH NECK SIZE. MINIMUM LENGTH OF FLEX SHALL BE 6'-0" TO A MAXIMUM OF 10'-0". BALANCE OF DUCT SHOWN ON PLAN SHALL BE RIGID STEEL DUCT SAME AS NECK SIZE. EXTERNALLY INSULATED.
- PROVIDE RUNOUT BRANCH DUCT TO AIR DEVICE SAME SIZE AS AIR DEVICE NECK UNLESS OTHERWISE NOTED ON PLANS.
- FURNISH WITH OPPOSED BLADE DAMPERS FOR SIDEWALL OR DUCT MOUNTED APPLICATIONS.

AIR DEVICE GENERAL NOTES:

- ALL UNITS FOR LAY-IN T-BAR GRILLE SHALL BE PROVIDED WITH TYPE 3 BORDER CEILING MODULE (24X24).
- ALL AIR DEVICES SHALL HAVE PAINTED WHITE FINISH.
- ALL 24X24 FACE AIR DEVICES INSTALLED IN HARD CEILINGS SHALL BE PROVIDED WITH T-BAR FRAME FOR PLASTER OR GYPSUM CEILINGS.
- PROVIDE SQUARE TO ROUND TRANSITIONS AS REQUIRED FOR COORDINATION OF DUCT AND AIR DEVICE NECK.
- COORDINATE FRAME TYPE WITH LATEST ARCHITECTURAL REFLECTED CEILING PLAN.
- INSULATE THE TOPS OF ALL SUPPLY AIR DEVICES, REFER TO SPECIFICATIONS.
- AIR DEVICES LOCATED IN HARD CEILINGS SHALL BE EQUIPPED WITH AN OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE OF DEVICE.
- ALL DIFFUSERS 4-WAY THROW UNLESS OTHERWISE NOTED.
- AIR DEVICES USED FOR THE TRANSFER OF AIR DO NOT REQUIRE O.B.D. OR FILTER.

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BUILDING REMODEL**
FOR
CITY OF CLEARWATER

1650 N. ARCTURAS AVE, CLEARWATER, FL 33765

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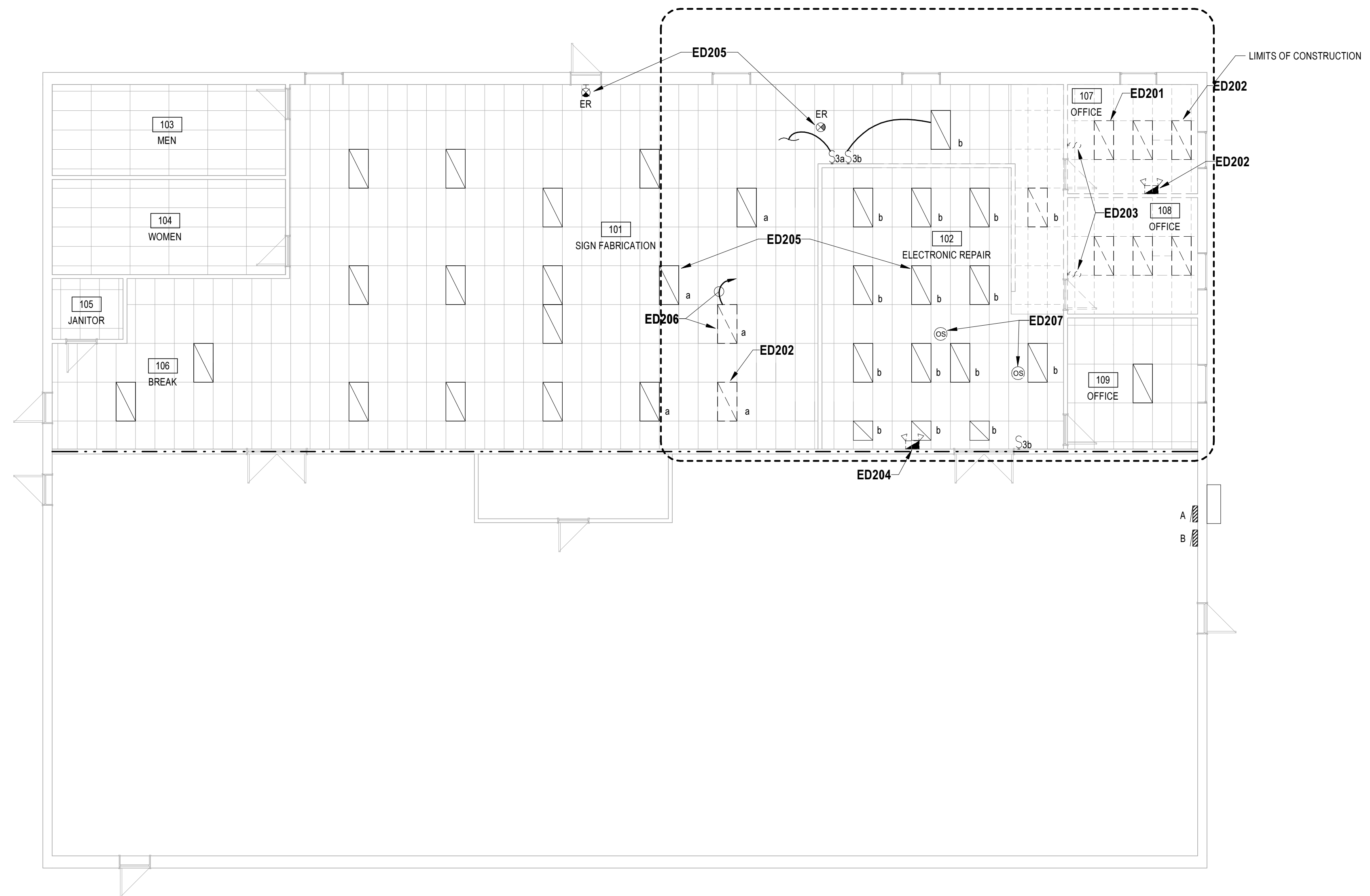
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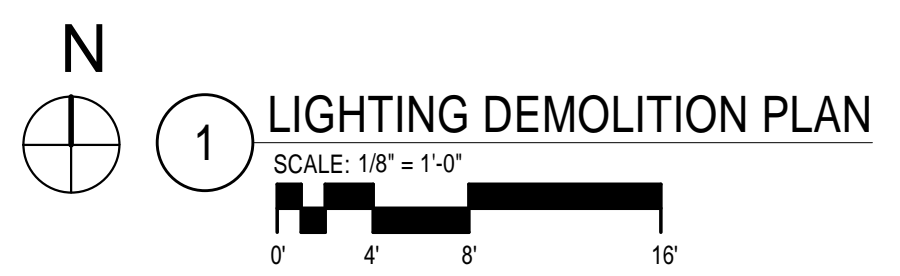
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SCHEDULES

M4.1



----- DENOTES FIXTURE TO BE REMOVED



LIGHTING GENERAL NOTES

- A. EXTEND EXISTING LOCAL LIGHTING BRANCH CIRCUIT TO SERVE NEW LIGHTS AS REQUIRED.
- B. RELOCATE EXISTING OBSTRUCTIONS ABOVE CEILING AS REQUIRED TO INSTALL LIGHT FIXTURES WERE SHOWN ON LIGHTING PLAN. FIELD VERIFY WORK SCOPE.
- C. LEGALLY DISPOSE OF ALL NON-USED LIGHT FIXTURES.
- D. RE-WORK EXISTING LIGHT BRANCH CIRCUITS AS REQUIRED TO MAINTAIN CIRCUITS FOR EXISTING LIGHTS TO REMAIN IN OPERATION. (CIRCUITING.)
- E. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF INSTALLATION AND DEMOLITION WORK WITH OTHER TRADES TO AVOID CONFLICTS. ELECTRICAL EQUIPMENT SCHEDULED FOR DEMOLITION SHALL BE PRESENTED TO OWNER FIRST RIGHT OF REFUSAL. SHOULD OWNER REFUSE, ALL EQUIPMENT SHALL BE DISPOSED OF IN SAFE LEGAL MANNER.
- F. DEMOLITION DRAWINGS ARE BASED ON FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO THE ENGINEER BEFORE DISTURBING EXISTING INSTALLATION. FIELD VERIFY.
- G. REMOVE ALL CONDUIT AND CONDUCTORS SUPPLYING DEMOLISHED EQUIPMENT TO PANEL OF ORIGIN.
- H. ALL EXISTING TO REMAIN CIRCUITRY SHALL BE MAINTAINED AFTER THE DEMOLITION OF EQUIPMENT. PROVIDE CONDUIT, JUNCTION BOXES, CONDUCTORS, ETC. TO MAINTAIN CIRCUITS TO EXISTING TO REMAIN DEVICES AND EQUIPMENT.
- I. SUPPORT ALL EXISTING CONDUITS ABOVE CEILING THAT ARE NOT SUPPORTED. WHEN CEILINGS ARE REMOVED, AND NEW CEILINGS ARE INSTALLED, FIELD VERIFY WORK SCOPE.
- J. RE-WORK ALL EXISTING BRANCH CIRCUITS AS REQUIRED TO MAINTAIN CIRCUITS OUTSIDE OF REMODELED AREA. PATCH/PAINT WALLS AS REQUIRED.
- K. UPDATE PANELBOARD DIRECTORY CARD TO REFLECT LOADS REMOVED.

KEYNOTE LEGEND

NO.	DESCRIPTION
ED201	TYP. LIGHT FIXTURE BRANCH CIRCUITS ARE CIRCUITED TO PANEL "A". FIELD VERIFY CIRCUITING, AND UPDATE PANELBOARD DIRECTORY CARD ACCORDINGLY.
ED202	TYP. REMOVE FIXTURE AND CONTROL CIRCUIT BACK TO SOURCE. PROTECT AND MAINTAIN EXISTING BRANCH CIRCUIT FOR SUBSEQUENT EXTENSION TO NEW FIXTURES IN ROOM.
ED203	REMOVE LIGHT SWITCH, OUTLET BOX AND CONDUIT.
ED204	REMOVE EXISTING EMERGENCY LIGHT FIXTURE AND INSTALL NEW FIXTURE IN SAME LOCATION. SEE DWG E2.1 FOR NEW FIXTURE REQUIREMENTS.
ED205	TYP. EXISTING TO REMAIN LIGHT FIXTURES IN ROOM. PROTECT AND MAINTAIN IN OPERATION. UON.
ED206	RELOCATE LIGHT FIXTURE WHERE SHOWN. EXTEND BRANCH CIRCUIT AS REQUIRED.
ED207	PROTECT AND MAINTAIN EXISTING LIGHTING CONTROL OCCUPANCY SENSORS. FIELD VERIFY SENSOR LOCATIONS.

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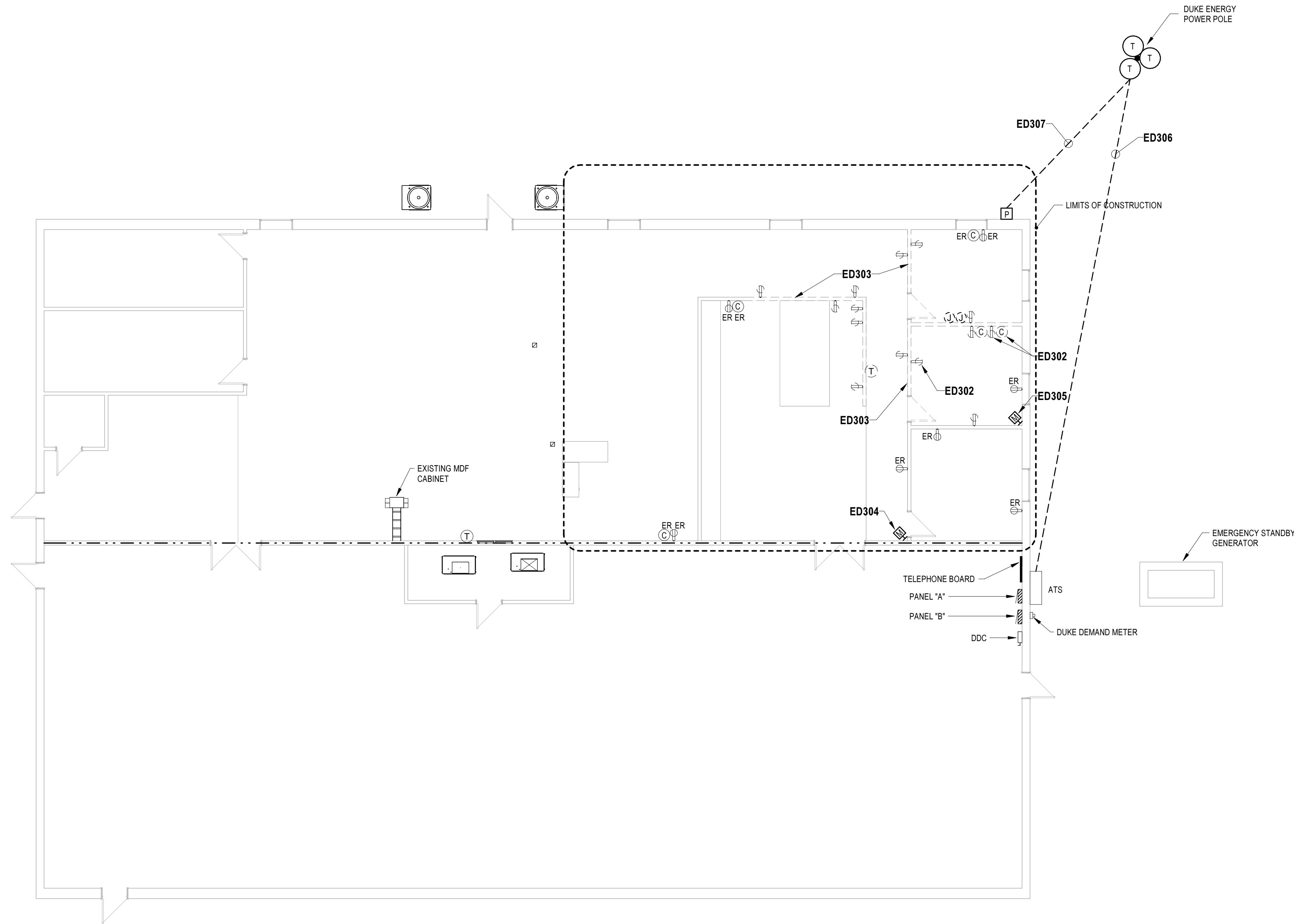
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LIGHTING DEMOLITION PLAN

ED2.1

1650 N. ARCTURAS AVE., CLEARWATER, FL 33765



N
 1
POWER AND SIGNAL DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"
 0 4 8 16

POWER GENERAL NOTES

- A. COORDINATE ALL ROUGH-IN LOCATIONS WITH ARCHITECTURAL ELEVATIONS AND DRAWINGS, SHOP DRAWINGS AND OTHER TRADES.
- B. VERIFY ALL COUNTER HEIGHTS PRIOR TO ROUGH-IN.
- C. GENERAL ELECTRICAL NOTES ON DRAWING E0.1 APPLY TO THIS DRAWING.
- D. ALL RECEPTACLES LOCATED WITHIN SIX FEET OF SINKS SHALL BE GFCI TYPE WHETHER NOTED OR OTHERWISE.
- E. 120V BRANCH CIRCUITS EXCEEDING 100 FEET SHALL BE #10 AWG THROUGHOUT LENGTH OF CIRCUIT.
- F. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT SUCH AS, EXHAUST FANS, VAV UNITS, ETC.
- G. COORDINATE ALL WORK WITH OTHER TRADES AND THE PROJECT SCHEDULE.
- H. UL-LISTED ASSEMBLIES SHALL BE INSTALLED AT ALL PENETRATIONS OF RATED WALLS. JUNCTION BOXES LOCATED WITHIN RATED WALLS SHALL BE WRAPPED WITH FIRE STOP PUTTY PADS. ALL WORK SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- I. ALL RECEPTACLES SHALL BE LABELED WITH PANELBOARD NAME AND CIRCUIT NUMBER.
- J. COORDINATE POWER CONNECTIONS AND FIELD WIRING REQUIREMENTS TO EQUIPMENT WITH EQUIPMENT SHOP DRAWINGS, SUBMITTALS AND INSTALLERS.
- K. COORDINATE CONDUIT ROUTING AND OUTLET BOX INSTALLATION IN CASEWORK WITH SHOP DRAWINGS.
- L. TYP. INSTALL FLUSH OUTLET BOXES FOR NEW DEVICES AND FISH-IN FLEXIBLE METAL CONDUIT IN WALLS FROM CEILING SPACE TO OUTLETS WHERE POSSIBLE. IF NOT POSSIBLE PROVIDE SURFACE RACEWAY SYSTEM TO ACCOMMODATE DEVICES AND WIRING. PAINT RACEWAYS TO MATCH WALL COLOR WHERE SYSTEM IS INSTALLED.
- M. EXISTING EQUIPMENT, DEVICE AND CIRCUITING SHOWN ARE BASED ON OWNER'S AS-BUILT DRAWINGS PROVIDED TO A/E. FIELD VERIFY EQUIPMENT AND DEVICE LOCATIONS AND CIRCUITING. NOT ALL DEVICES ARE SHOWN. FIELD VERIFY QUANTITY.

KEYNOTE LEGEND

NO.	DESCRIPTION
ED302	TYPICAL. REMOVE POWER/DATA OUTLETS. REMOVE DATA CABLING BACK TO SOURCE. REMOVE RECEPTACLE BRANCH CIRCUITS BACK TO LOCAL J-BOX ABOVE CEILING FOR SUBSEQUENT EXTENSION TO NEW DEVICES.
ED303	TYPICAL. EXISTING WALL TO BE REMOVED. REMOVE ALL ELECTRICAL DEVICES, OUTLET BOXES, WIRING AND CONDUIT BACK TO SOURCE. REMOVE ALL DATA CABLING BACK TO SOURCE. PROTECT AND MAINTAIN BRANCH CIRCUITS FOR SUBSEQUENT EXTENSION TO NEW DEVICES AS SHOWN ON CONSTRUCTION POWER & SIGNAL PLAN. FOR BRANCH CIRCUITS NOT USED, REMOVE WIRING BACK TO SOURCE PANEL, TURN-OFF BREAKER AND UPDATE PANEL DIRECTORY CARD TO READ "SPARE". FIELD VERIFY WORK SCOPE.
ED304	PROTECT AND MAINTAIN SECURITY SYSTEM MOTION DETECTOR.
ED305	REMOVE AND STORE SECURITY MOTION DETECTOR. RE-INSTALL DETECTOR NEAR SAME LOCATION WHEN NEW CEILING IS INSTALLED. COORDINATE INSTALLATION WITH OWNER.
ED306	APPROXIMATE ROUTING OF EXISTING BLDG SERVICE LATERAL CIRCUIT. FIELD VERIFY. PROTECT AND MAINTAIN.
ED307	EXISTING CIRCUIT. FIELD VERIFY CIRCUIT ROUTING AND SIZE.

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POWER AND SIGNAL DEMOLITION PLAN

ED3.1

LUMINAIRE SCHEDULE						
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMP	MOUNTING	REMARKS
A, A1	2X2' LED TROFFER	COOPER LIGHTING	22-CGTX-35-L840	LED 3422 LUMENS 3500K 80 CRI, 27.9 WATTS	RECESSED	2X2 FLAT PANEL, 3422 LUMENS, 120,000 HOUR L70 RATED LIFE, 5 YEAR WARRANTY. FIXTURE TYPE "A1" SAME AS "A" EXCEPT IT HAS 2001 LUMENS (22CGTX-20-L840) OPTION.
N	EMERGENCY LUMINAIRE	COOPER LIGHTING	SELHP-100-R3	2 LED HEADS 580 LUMENS 2.4 WATTS	WALL OR CEILING MOUNT	EMERGENCY UNIT EQUIPMENT, 2 HEAD FULLY ADJUSTABLE 580 LUMENS/HEAD, WHITE THERMOPLASTIC HOUSING
X1	EXIT SINGLE FACE	COOPER LIGHTING	APC-7-RG	LED 80 CRI, 2.01 WATTS	UNIVERSAL	THERMOPLASTIC UL924 CODE COMPLIANT, RED/GREEN FIELD SELECTABLE LETTERS, NICAD EMERGENCY BATTERY.

LIGHT FIXTURE SCHEDULE NOTES:

ALL FIXTURES SHALL BE FUSED.
VERIFY ALL CATALOG NUMBERS TO CONFIRM TRIM REQUIREMENTS AND DESCRIPTION.
PROVIDE ALL HANGER BARS, ALL-THREAD RODS AND ACCESSORIES FOR A COMPLETE INSTALLATION.
PROVIDE OWNER WITH TWO SPARE LED FIXTURE DRIVERS FOR FIXTURE TYPE A.

LEGEND	
SYMBOL	DESCRIPTION
	JUNCTION BOX.
	208/120V PANELBOARD.
	QUADRUPLEX RECEPTACLE, NEMA TYPE 5-20R, CENTERLINE MOUNTED 18" AFF IN FINISHED AREAS AND 42" AFF IN UNFINISHED AREAS UON.
	CONDUIT CONCEALED IN FINISHED AREAS OR EXPOSED IN UNFINISHED AREAS. SHORT SLASH LINES INDICATE UNGROUNDED CONDUCTORS. LONG SLASH LINES INDICATE NEUTRAL CONDUCTOR. X MARK INDICATE GROUNDING CONDUCTOR. NO SLASH LINES OR MARKS INDICATES A MINIMUM OF THREE (3) CONDUCTORS IN A RACEWAY. CONDUCTOR SIZE INDICATED IF OTHER THAN #12 AWG.
	HOMERUN TO PANELBOARD (i.e. PANELBOARD LD3 CIRCUITS 1 AND 3 OR POLE SPACES 1 AND 3).
	CONDUIT CONCEALED IN OR BELOW FLOOR SLAB OR CONDUIT CONCEALED 36" MINIMUM BELOW FINISHED GRADE.
	GROUNDING ELECTRODE.
	CONDUIT STUB-OUT WITH CAP.
	FLAT PANEL LED LIGHT FIXTURE. CAPITAL LETTER INDICATES FIXTURE TYPE.
	SURFACE OR RECESSED LED LIGHT FIXTURE.
	WALL MOUNTED EMERGENCY LIGHT. LETTER INDICATES FIXTURE TYPE.
	CEILING MOUNTED EMERGENCY LIGHT. LETTER INDICATES FIXTURE TYPE.
	WALL MOUNTED ILLUMINATED EXIT SIGN. SHADED QUADRANT INDICATES FACE SIDE.
	CEILING MOUNTED ILLUMINATED EXIT SIGN. SHADED QUADRANT INDICATES FACE SIDE. LETTER INDICATES FIXTURE TYPE.
	VACANCY SENSOR/WALL SWITCH, OFF - AUTO - ON. MOUNT 42" AFF. SEE SPECIFICATIONS.
	CEILING MOUNTED LIGHTING VACANCY SENSOR.
	CEILING MOUNTED LIGHTING OCCUPANCY SENSOR.
	SINGLE POLE SWITCH CENTERLINE MOUNTED 42" AFF. SMALL LETTER INDICATES CONTROLLED OUTLET. SWITCH CONNECTED TO THE EMERGENCY POWER SYSTEM SHALL HAVE RED BODY COLOR.
	DIMMER SWITCH MOUNTED 42" AFF. SEE SPECIFICATION.
	THREE WAY SWITCH CENTERLINE MOUNTED 42" AFF.
	ABOVE FINISHED FLOOR
	CEILING, MOUNTED FLUSH
	CONDUIT
	EQUIPMENT GROUNDING CONDUCTOR
	EXISTING TO REMAIN.
	MOUNTED
	SURGE PROTECTION DEVICE
	WEATHERPROOF, OUTDOOR
	UNLESS OTHERWISE NOTED

NOTE:
NOT ALL SYMBOLS SHOWN IN THIS LEGEND MAY NECESSARILY APPEAR IN THESE DOCUMENTS. ADDITIONAL SYMBOLS MAY BE DEFINED ELSEWHERE IN SPECIFIC DRAWINGS.

- GENERAL NOTES:**
- METHODS, MATERIALS, AND PROVISIONS OF DIVISION 26 SPECIFICATIONS, GENERAL CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS ARE AN INTEGRAL PART OF THE BID AND CONSTRUCTION DOCUMENTS AND MUST BE RIGIDLY ADHERED TO.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2023 EDITION. IN SOME CASES, PROJECT DRAWINGS AND SPECIFICATIONS EXCEED MINIMUM CODE REQUIREMENTS.
 - PROVIDE CONSTRUCTION POWER AND LIGHTING FROM BUILDING SOURCE. MEET OR EXCEED NFPA AND OSHA STANDARDS FOR ELECTRICAL DISTRIBUTION AND SAFETY ON CONSTRUCTION SITES.
 - ALL WIRE AND CABLE SHALL BE COPPER WITH THW/THHN, 600 VOLTS INSULATION. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG FOR POWER AND LIGHTING CIRCUITS, AND MINIMUM #14 FOR SIGNAL CIRCUITS. BRANCH & FEEDER ABOVE GROUND - THHN (90 DEGREES C) BRANCH & FEEDER BELOW GROUND - THWN (75 DEGREES C)
 - #10 AWG AND SMALLER WIRE CONNECTORS SHALL BE 600 VOLTS ELECTRICAL SPRING CONNECTORS (IDEAL 451/452) OR (3M E12/512). #8 AWG AND LARGER WIRE CONNECTORS SHALL BE THE SPLIT BOLT TYPE WITH INSULATION OF VINYL MASTIC PADS AND VINYL PLASTIC TAPE (3M 2200/2210 AND SUPER 334).
 - TYPICAL, ALL POWER AND LINE VOLTAGE WIRE AND CABLE SHALL BE INSTALLED IN CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 1/2" AND CONDUIT SHALL BE CONCEALED IN FINISHED AREAS AND PROTECTED IN UNFINISHED AREAS. SEE SPECIFICATIONS FOR LOW VOLTAGE REQUIREMENTS.
 - ELECTRICAL METALLIC TUBING SHALL BE USED IN FINISHED AREAS WITH STEEL COMPRESSION COUPLINGS AND FITTINGS. E.M.T. MAY ALSO BE USED IN UNFINISHED AREAS WHERE PROTECTED IN COLUMN WEBS OR UP IN JOIST SPACE.
 - RIGID GALVANIZED STEEL CONDUIT SHALL BE INSTALLED WHERE CONDUITS ARE SUSCEPTIBLE TO PHYSICAL DAMAGE AND RIGID ALUMINUM CONDUIT SHALL BE INSTALLED IN ALL EXTERIOR LOCATIONS ABOVE GROUND.
 - STEEL BONDING TYPE LOCKNUTS SHALL BE INSTALLED WHERE CONDUITS ENTER PANELBOARD, ENCLOSURES, WIREWAYS, STARTERS, SWITCH ENCLOSURES, JUNCTION BOXES AND ALL METALLIC ENCLOSURE ALL METALLIC ENCLOSURE BOXES. ALL E.M.T. FITTINGS SHALL BE COMPRESSION TYPE.
 - INSTALL INTUMESCENT FIRE SEAL AT ALL SLEEVE/CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS TO MAINTAIN RATING OF WALLS.
 - GREEN COLORED INSULATED GROUNDING CONDUCTOR(S) SHALL BE INCLUDED IN ALL RACEWAY AND RACEWAY SYSTEMS. SIZES UP THROUGH #6 SHALL BE SOLID COLOR.
 - CIRCUIT DIRECTORIES FOR PANELBOARD SHALL BE MACHINE PRINTED. HAND WRITTEN SHALL BE UNACCEPTABLE.
 - ALL J-BOX COVERS SHALL BE MARKED WITH BRANCH CIRCUIT NUMBERS CONTAINED THEREIN. SIGNAL SYSTEM JUNCTION BOXES SHALL BE COLOR CODED.
 - UL LISTED ASSEMBLIES SHALL BE INSTALLED AT ALL PENETRATIONS OF RATED WALLS. JUNCTION BOXES AND OUTLET BOXES LOCATED WITHIN RATED WALLS SHALL BE WRAPPED WITH FIRE STOP PUTTY PADS. INCLUDE PUTTY PADS IN SHOP DRAWINGS SUBMITTALS. SEE ARCHITECTURAL DRAWINGS FOR WALL RATINGS.

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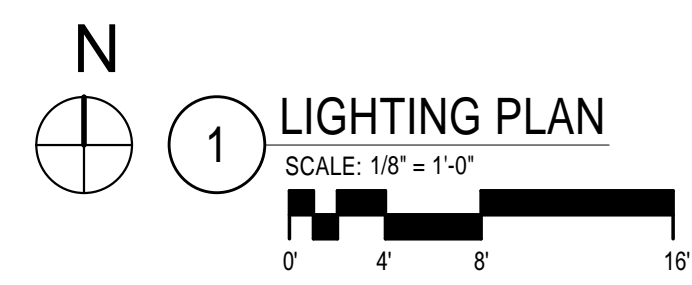
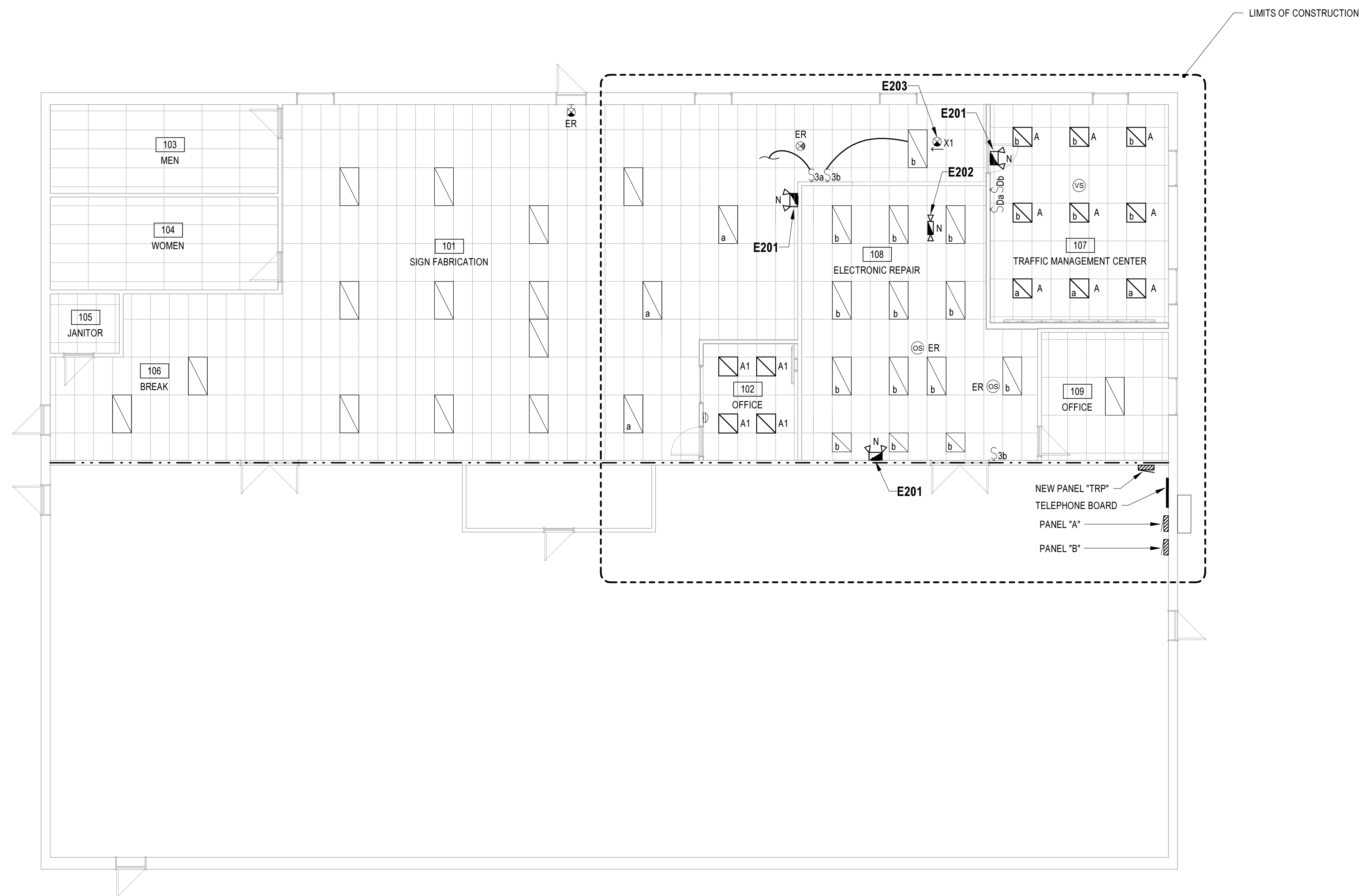
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LEGEND, DETAILS & GENERAL NOTES

E0.1



LIGHTING GENERAL NOTES

- A. EXTEND EXISTING LOCAL LIGHTING BRANCH CIRCUITS TO SERVE NEW LIGHTS AS REQUIRED.
- B. RELOCATE EXISTING OBSTRUCTIONS ABOVE CEILING AS REQUIRED TO INSTALL LIGHT FIXTURES WERE SHOWN ON LIGHTING PLAN. FIELD VERIFY WORK SCOPE.
- C. RE-WORK EXISTING LIGHT BRANCH CIRCUITS AS REQUIRED TO MAINTAIN CIRCUITS OUTSIDE OF REMODELED AREA.
- D. SWITCH DEVICE COLOR AND COVERPLATES SHALL MATCH EXISTING.
- E. PAINT/PATCH WALLS AS REQUIRED TO CONCEAL NEW FLUSH MOUNTED OUTLET BOXES AND CONCEALED CONDUITS IN EXISTING WALLS.
- F. NEW LIGHTING SHALL BE LED WITH VACANCY SENSOR CONTROLS IN ACCORDANCE WITH FLORIDA 2023 BUILDING CODE 8TH EDITION.
- G. EXISTING EQUIPMENT, DEVICE AND CIRCUITING SHOWN ARE BASED ON OWNERS AS-BUILT DRAWINGS PROVIDED TO A/E. FIELD VERIFY EQUIPMENT AND DEVICE LOCATIONS AND CIRCUITING.
- H. REFER TO THE SPECIFICATIONS, LEGEND AND GENERAL NOTES ON LIGHT FIXTURE SCHEDULE DRAWINGS E0.1 AND E0.2.
- I. COORDINATE ALL WORK WITH THE PROJECT AND PHASING SCHEDULES, OTHER TRADES AND THE OWNER.
- J. U.L. LISTED ASSEMBLIES SHALL BE INSTALLED AT ALL PENETRATIONS OF RATED WALLS. JUNCTION BOXES LOCATED WITHIN RATED WALLS SHALL BE WRAPPED WITH FIRE STOP PUTTY PADS.
- K. ALL WORK SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- L. TYPICAL LIGHT FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM THE OVERHEAD STRUCTURE BY CEILING GRID TYPE WIRES CONNECTED TO TWO OPPOSITE CORNERS.
- M. FIXTURE WHIPS SHALL NOT LAY ON THE CEILING TILES.
- N. PROVIDE JUNCTION BOXES AS REQUIRED. PROVIDE ADDITIONAL FLEX WHIPS ABOVE JUNCTION BOXES TO EACH INDIVIDUAL FIXTURE. FLEX SHALL NOT EXCEED 6'-0" AND SHALL HAVE #12 AWG CONDUCTORS. FIXTURES SHALL NOT BE DAISY CHAINED. PROVIDE #10 AWG HOMERUN CONDUCTORS FOR ALL 120 VOLT BRANCH CIRCUITS EXCEEDING 100 FEET IN LENGTH TO MINIMIZE VOLTAGE DROP.
- O. EXTEND AN UNSWITCHED CONDUCTOR TO FIXTURES WITH EMERGENCY BATTERIES AND TO EXIT LIGHTS.
- P. ALL CONTROL AND DEVICES AND POWER SUPPLIES SHALL BE LOCATED ABOVE THE CEILING DIRECTLY OVER THE CONTROL SWITCHES WHICH SHALL BE LABELED WITH ASSOCIATED FUNCTIONS.

KEYNOTE LEGEND

NO.	DESCRIPTION
E201	TYP. PROVIDE NEW WALL MOUNTED EMERGENCY FIXTURE.
E202	PROVIDE CEILING MOUNTED EMERGENCY LIGHT FIXTURE.
E203	PROVIDE NEW EXIT LIGHT.

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 FOR
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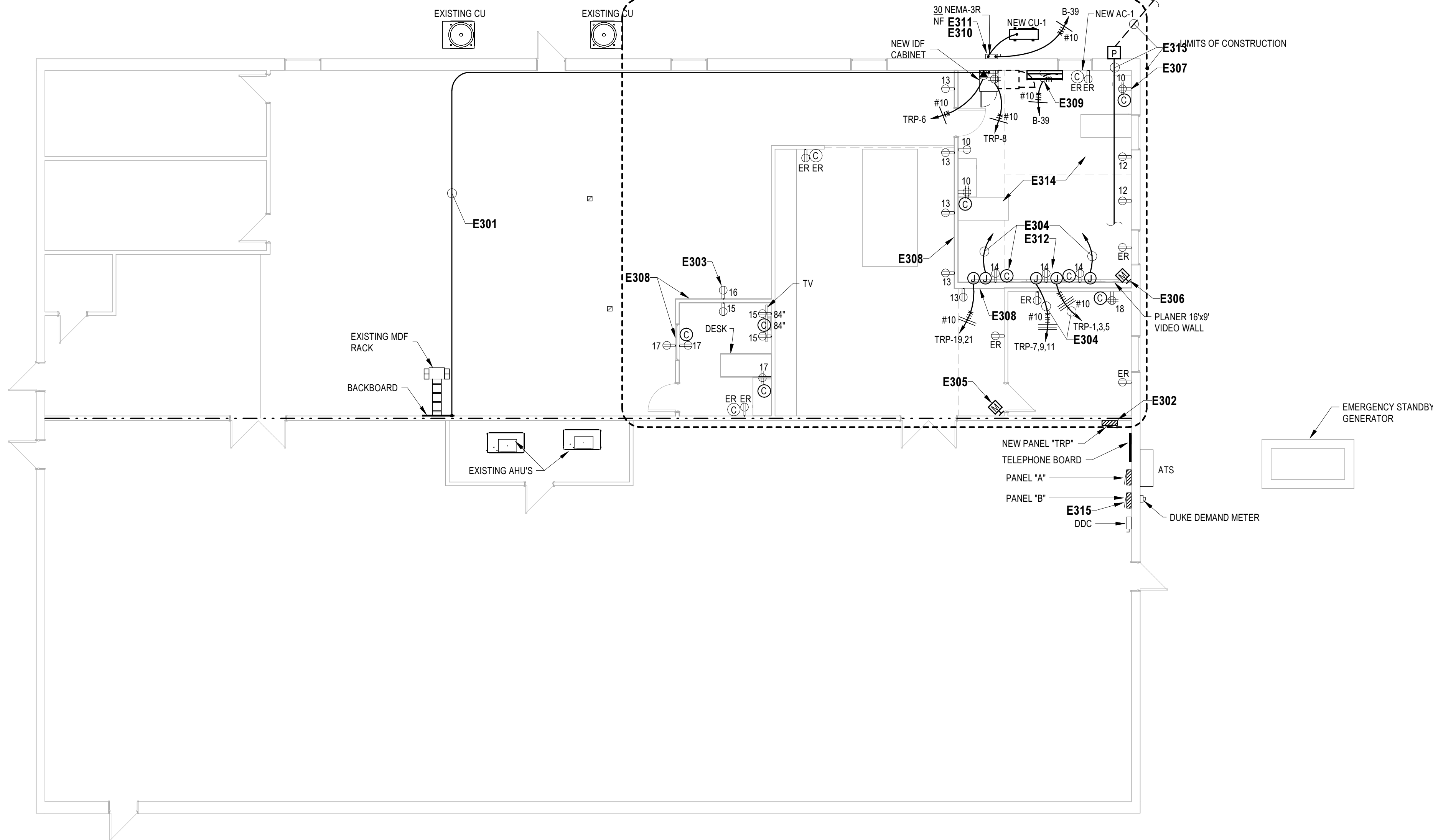
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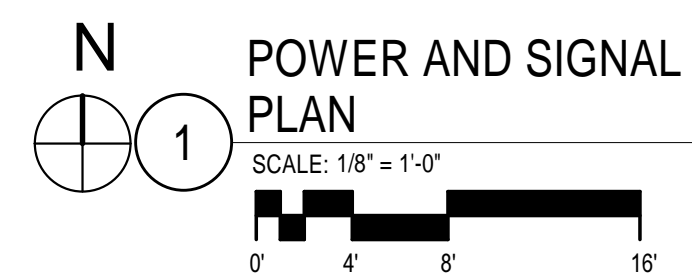
LIGHTING PLAN

E2.1

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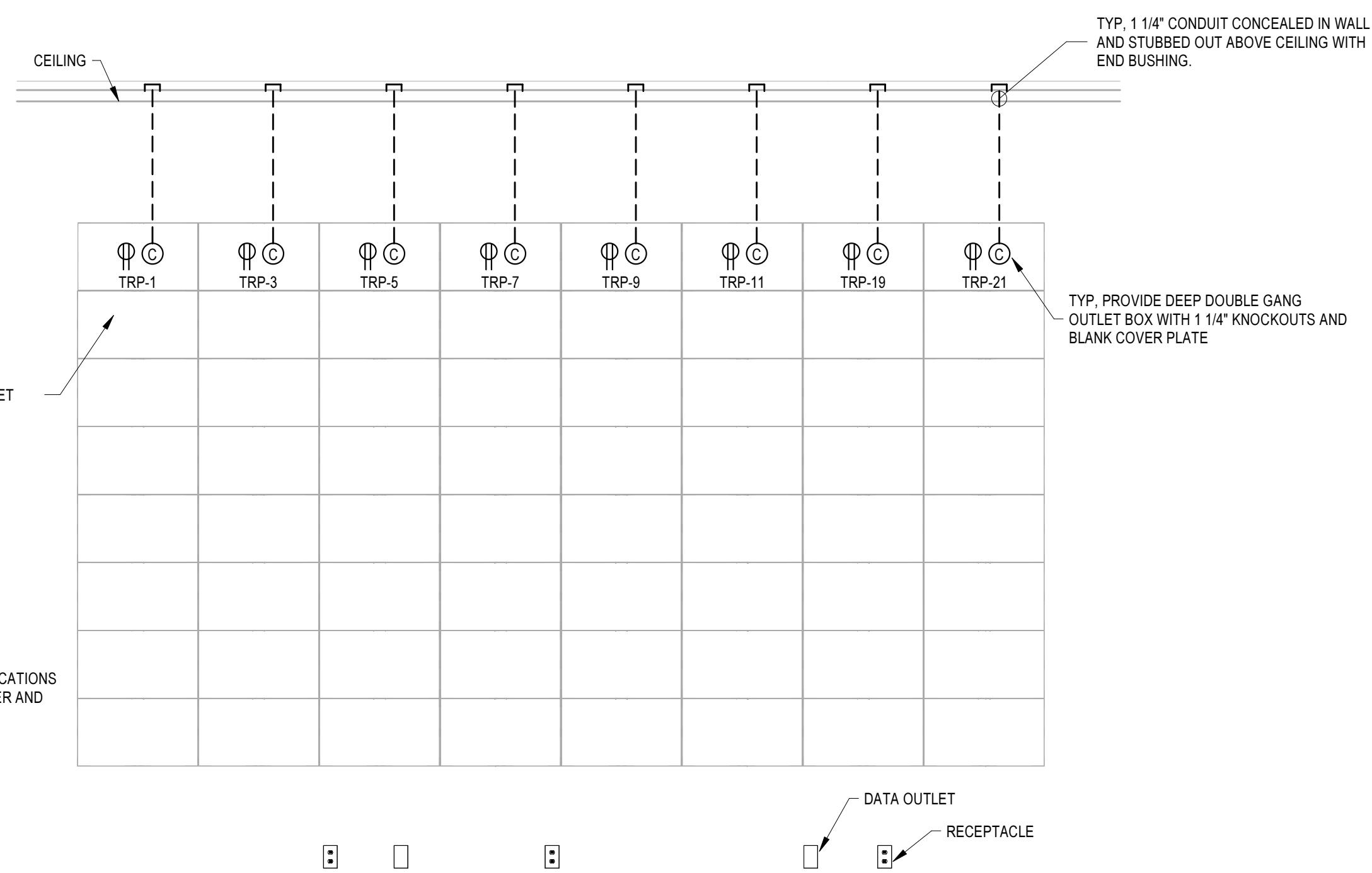


NOTE:
ALL NEW DEVICES ARE CIRCUITED TO
PANELBOARD "TRP", UON.



SAWCUT/PATCH/PAINT WALL AS
REQUIRED TO INSTALL FLUSH OUTLET
BOXES AND CONCEALED CONDUITS

NOTE:
COORDINATE OUTLET ROUGH-IN LOCATIONS
WITH PLANAR VIDEO WALL INSTALLER AND
EQUIPMENT SHOP DRAWINGS



2
PLANAR VIDEO WALL
ELEVATION
SCALE: 1/2" = 1'-0"

POWER GENERAL NOTES

- A. COORDINATE ALL ROUGH-IN LOCATIONS WITH ARCHITECTURAL ELEVATIONS AND DRAWINGS, SHOP DRAWINGS AND OTHER TRADES.
- B. VERIFY ALL COUNTER HEIGHTS PRIOR TO ROUGH-IN.
- C. GENERAL ELECTRICAL NOTES ON DRAWING E0.1 APPLY TO THIS DRAWING.
- D. ALL RECEPTACLES LOCATED WITHIN SIX FEET OF SINKS SHALL BE GFCI TYPE WHETHER NOTED OR OTHERWISE.
- E. 120V BRANCH CIRCUITS EXCEEDING 100 FEET SHALL BE #10 AWG THROUGHOUT LENGTH OF CIRCUIT.
- F. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
- G. COORDINATE ALL WORK WITH OTHER TRADES AND THE PROJECT SCHEDULE.
- H. UL-LISTED ASSEMBLIES SHALL BE INSTALLED AT ALL PENETRATIONS OF RATED WALLS. JUNCTION BOXES LOCATED WITHIN RATED WALLS SHALL BE WRAPPED WITH FIRE STOP PUTTY PADS. ALL WORK SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- I. ALL RECEPTACLES SHALL HAVE STAINLESS STEEL COVERPLATE AND ENGRAVED WITH PANELBOARD NAME AND CIRCUIT NUMBER. SEE SPECIFICATIONS FOR REQUIREMENTS.
- J. COORDINATE POWER CONNECTION TO EQUIPMENT WITH EQUIPMENT SUBMITTALS. COORDINATE CONDUIT ROUTING AND OUTLET BOX INSTALLATION IN CASEWORK WITH SHOP DRAWINGS.
- K. COORDINATE POWER CONNECTION TO ELECTRICAL EQUIPMENT WITH EQUIPMENT SUBMITTALS.
- L. SEE ARCHITECTURAL DRAWINGS FOR SIGNAGE REQUIREMENTS.
- M. VERIFY EQUIPMENT BRANCH CIRCUIT REQUIREMENTS WITH OWNER. UPGRADE BRANCH CIRCUITS AND BREAKERS AS REQUIRED TO SUPPORT EQUIPMENT LOAD.

KEYNOTE LEGEND

NO.	DESCRIPTION
E301	PROVIDE 2" CONDUIT ROUTED ABOVE CEILING FROM BACKBOARD BEHIND EXISTING MDF RACK TO NEW IDF CABINET AS SHOWN. COORDINATE ROUTING OF CONDUIT ABOVE CEILING WITH EXISTING OBSTRUCTIONS. PROVIDE PULLSTRING IN CONDUIT.
E302	NEW PANELBOARD. SEE RISER, DWG E6.1 AND SEE NEW PANELBOARD SCHEDULE FOR REQUIREMENTS.
E303	TYP. PROVIDE NEW DEVICES AND CIRCUITS AS SHOWN.
E304	PROVIDE ALL POWER AND SIGNAL DEVICE OUTLET BOXES, DEVICES, CONDUIT PATHWAYS AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL VIDEO WALL SYSTEM. COORDINATE FIELD WIRING REQUIREMENTS WITH VIDEO WALL SHOP DRAWINGS AND INSTALLER.
E305	PROTECT AND MAINTAIN SECURITY MOTION DETECTOR.
E306	RE-INSTALL EXISTING SECURITY MOTION DETECTOR.
E307	TYP. SAWCUT/PATCH/PAINT WALL AS REQUIRED TO INSTALL DEVICE FLUSH OUTLET BOXES AND CONCEALED CONDUITS IN EXISTING WALL.
E308	TYP. REMOVE, RELOCATE AND RECONNECT EXISTING ELECTRICAL POWER AND SIGNAL CIRCUITS ABOVE CEILINGS AS REQUIRED TO ALLOW FOR NEW WALL INSTALLATION. FIELD VERIFY WORK SCOPE.
E309	PROVIDE MOTOR RATED SWITCH AND IN-LINE FUSE FOR CIRCUIT SERVING NEW AC FAN CONDENSATE PUMP. COORDINATE FUSE SIZE FIELD WIRING REQUIREMENTS FOR PUMP WITH PUMP SHOP DRAWINGS AND INSTALLER. LABEL SWITCH ACCORDINGLY.
E310	PROVIDE NEMA-3R HEAVY DUTY, 30 AMP NON-FUSED DISCONNECT SWITCH TO SERVE NEW AC UNIT. PROVIDE ENGRAVED PLASTIC LABEL ON SWITCH. PROVIDE ENGRAVED PLASTIC LABEL ON SWITCH. PROVIDE FINAL CONNECTION TO UNIT WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT PAINT EXPOSED CONDUIT TO MATCH WALL COLOR. ALL EXTERIOR EXPOSED CONDUIT ON WALL SHALL BE ALUMINUM. COORDINATE INSTALLATION WITH UNIT FIELD WIRING DRAWINGS AND INSTALLER. PROVIDE ALL WIRING AND CONDUIT AS REQUIRED. PROVIDE UNISTRUT SUPPORTS AS REQUIRED.
E311	TYPICAL. FIELD LOCATE DISCONNECT, POWER AND CONTROL ROUGH-IN LOCATIONS WITH EQUIPMENT SHOP DRAWINGS FOR CONDENSING UNIT PANEL. SEAL ALL CONDUIT.
E312	SEE PLANAR VIDEO WALL ELEVATION FOR ADDITIONAL REQUIREMENTS. ALL PLANAR WALL SIGNAL CABLES ROUTED BETWEEN WALL AND IDF CABINET SHALL BE SUPPORTED FROM J-HOOKS EVERY 4' AND CABLE BUNDLES WRAPPED WITH VELCRO STRAPS EVERY 2'.
E313	EXISTING ELECTRICAL CIRCUIT. RELOCATE CONDUIT AND CIRCUIT ABOVE RAISED CEILING AS REQUIRED. EXTEND CIRCUIT AS REQUIRED. FIELD VERIFY CIRCUIT SIZE AND WORK SCOPE. COORDINATE POWER OUTAGES REQUIRED FOR CIRCUIT WORK WITH OWNER.
E314	THE CEILING IN THIS ROOM IS BEING RAISED FROM 9' TO 14' ABOVE FINISHED FLOOR. RELOCATE AND SUPPORT ALL ELECTRICAL CIRCUITS AND CABLES ABOVE NEW CEILING AS REQUIRED. EXTEND POWER, LIGHTING AND SIGNAL CIRCUITS AS REQUIRED. PROVIDE NEW CABLING AS REQUIRED TO MAINTAIN EXISTING DEVICES AND SYSTEMS IN OPERATION. FIELD VERIFY WORK SCOPE.
E315	PROVIDE NEW 25/2 CB IN EXISTING PANEL TO SERVE NEW CU-1. UPDATE PANELBOARD DIRECTORY CARD ACCORDINGLY. VERIFY CB AND BRANCH CIRCUIT SIZE WITH EQUIPMENT SHOP DRAWINGS.

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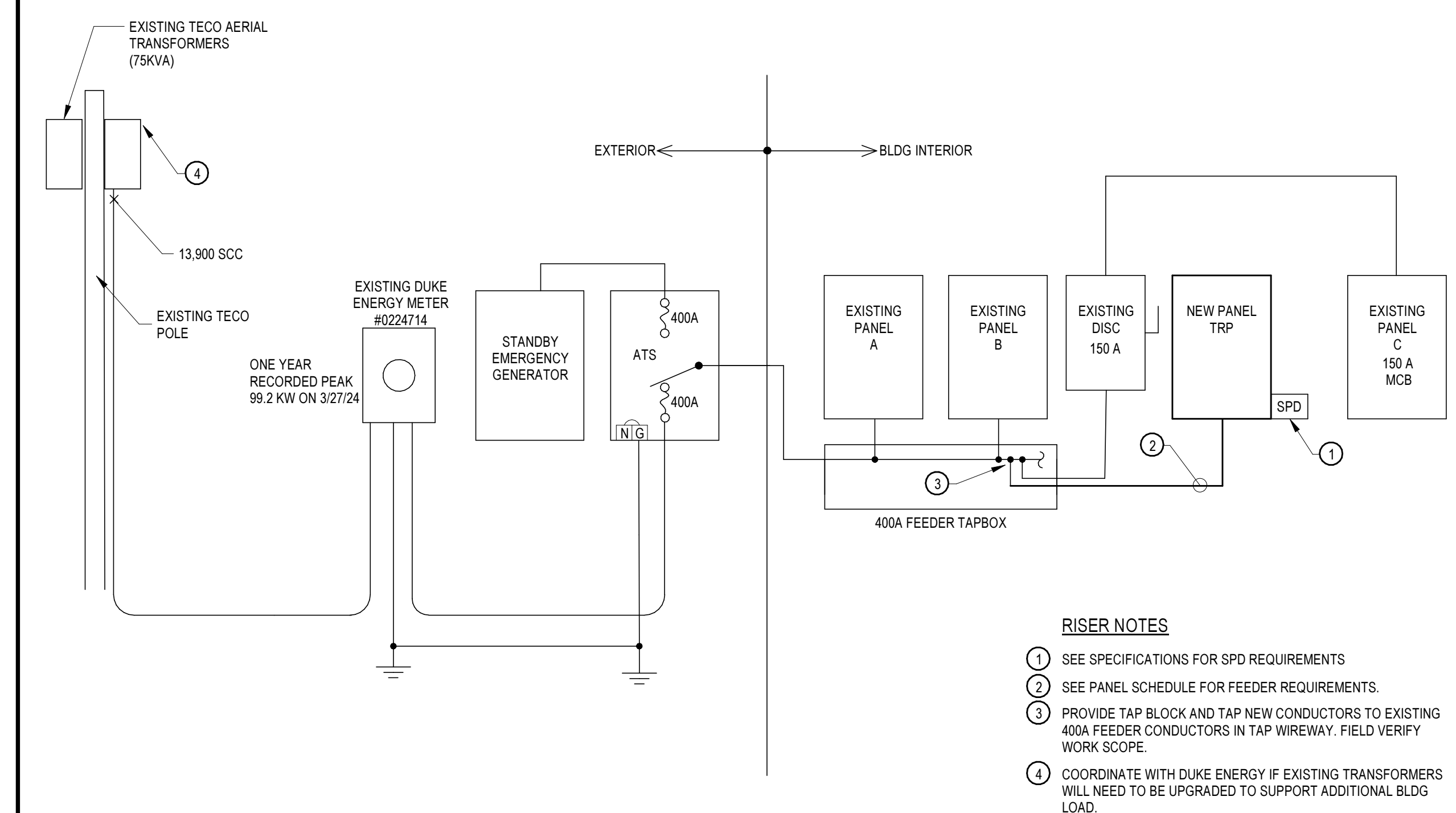
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POWER AND SIGNAL
PLAN

E3.1

120/208 VOLTS 3PH 4W SURFACE MTD 14 KAIC		NEW PANEL "TRP"						■ MCB: 100 AMPS MLO: --- AMPS		
BRANCH LOAD	AMPS	CB/P	A	B	C	CB/P	AMPS	BRANCH LOAD		
VIDEO WALL RECEPT	8.0	20/1	1	2	20/1			SPARE		
VIDEO WALL RECEPT	8.0	20/1	3	4	20/1			SPARE		
VIDEO WALL RECEPT	8.0	20/1	5	6	30/1		8	DATA CABINET		
VIDEO WALL RECEPT	8.0	20/1	7	8	20/1	3.0		DATA CABINET RECEPT		
VIDEO WALL RECEPT	8.0	20/1	9	10	20/1		7.5	RECEPTACLES		
VIDEO WALL RECEPT	8.0	20/1	11	12	20/1		3.0	RECEPTACLES		
RECEPTACLES	7.5	20/1	13	14	20/1	4.5		RECEPTACLES		
RECEPTACLES	4.5	20/1	15	16	20/1	4.5		RECEPTACLES		
RECEPTACLES	6.0	20/1	17	18	20/1		3.0	RECEPTACLES		
VIDEO WALL RECEPT	8.0	20/1	19	20	20/1			SPARE		
VIDEO WALL RECEPT	8.0	20/1	21	22	20/1			SPARE		
SPARE		20/1	23	24	20/1			SPARE		
SPARE		20/1	25	26	20/1			SPARE		
SPARE		20/1	27	28	20/1			SPARE		
SPARE		20/1	29	30	20/1			SPARE		
SPARE		20/1	31	32	20/1			SPARE		
SPARE		20/1	33	34	20/1			SPARE		
SPARE		20/1	35	36	20/1			SPARE		
SPACE		-/1	37	38	30/3			SURGE SUPPRESSOR		
SPACE		-/1	39							
SPACE		-/1	41							
TOTAL AMPS:	A PH = 39	B PH = 40.5	C PH = 36							
LOADS	CONN KVA	FACTOR	DMD KVA	DIVERSITY	DES KVA	REMARKS:				
LIGHTING	-	x	**	=	11.9	x	1.00	=	-	SQUARE D TYPE NOOB
RECEPT	13.9	x	1.00	=	-	x	1.00	=	-	
COOLING	-	x	1.00	=	-	x	1.00	=	-	
HEATING	-	x	1.00	=	-	x	1.00	=	-	
MISC EQUIP	-	x	1.00	=	-	x	1.00	=	-	
EXH FANS	-	x	1.25	=	-	x	1.00	=	-	
WATER HEAT	-	x	1.00	=	-	x	1.00	=	-	
FUTURE (25%)	-	x	1.00	=	-	x	1.00	=	3.0	
TOTALS	13.9 KVA		16.2 KVA		14.9 KVA					
■ EQUIPMENT GROUND BAR										
FEEDER: 4-#1, #6 EGC, IN 1 1/2" CND. * NEC 220.12 ** NEC 220.44 *** NONCOINCIDENT NEC 220.60										

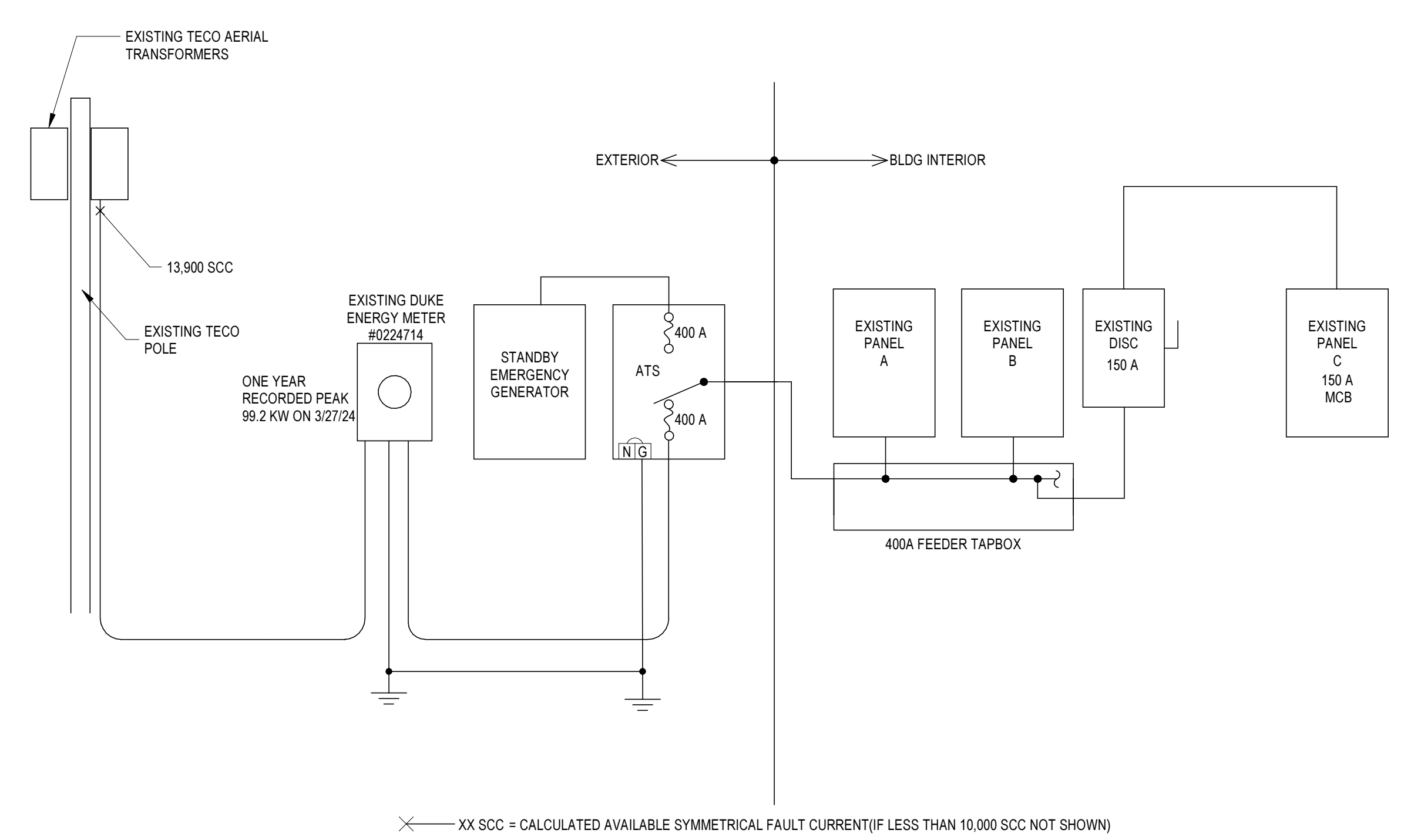


DUKE ENERGY BLDG SERVICE LOAD SUMMARY	
DUKE ENERGY 1 YEAR RECORDED PEAK	*110.2 KVA
LOAD ADDED	13.4 KVA
TOTAL :	123.6 KVA
* 99.2 KW 0.9 PF _v = 110.2 KVA	

EXISTING 400A FEEDER TAPBOX LOAD SUMMARY	
LOAD	DEMAND KVA
EXISTING LOAD	110.2
LOAD ADDED TO PANEL	13.4
TOTAL LOAD ADDED TO PANEL	123.6
123.6 KVA = 343.1 AMPS 208 V X 1.73	

- RISER NOTES**
- SEE SPECIFICATIONS FOR SPD REQUIREMENTS
 - SEE PANEL SCHEDULE FOR FEEDER REQUIREMENTS.
 - PROVIDE TAP BLOCK AND TAP NEW CONDUCTORS TO EXISTING 400A FEEDER CONDUCTORS IN TAP WIREWAY. FIELD VERIFY WORK SCOPE.
 - COORDINATE WITH DUKE ENERGY IF EXISTING TRANSFORMERS WILL NEED TO BE UPGRADED TO SUPPORT ADDITIONAL BLDG LOAD.

2 MODIFIED BLDG ELECTRICAL RISER
SCALE: NTS



XX SCC = CALCULATED AVAILABLE SYMMETRICAL FAULT CURRENT (IF LESS THAN 10,000 SCC NOT SHOWN)

1 EXISTING BLDG ELECTRICAL RISER
SCALE: NTS

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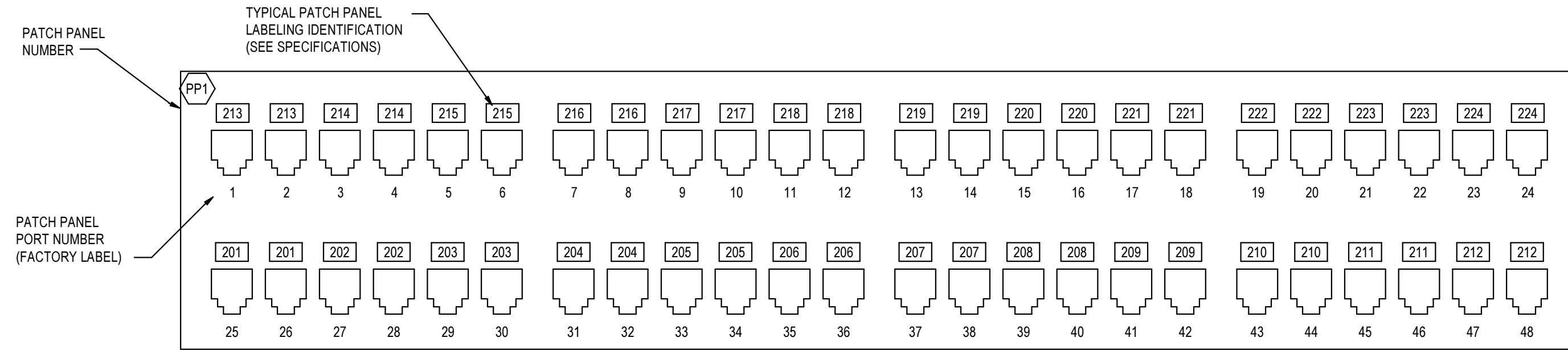
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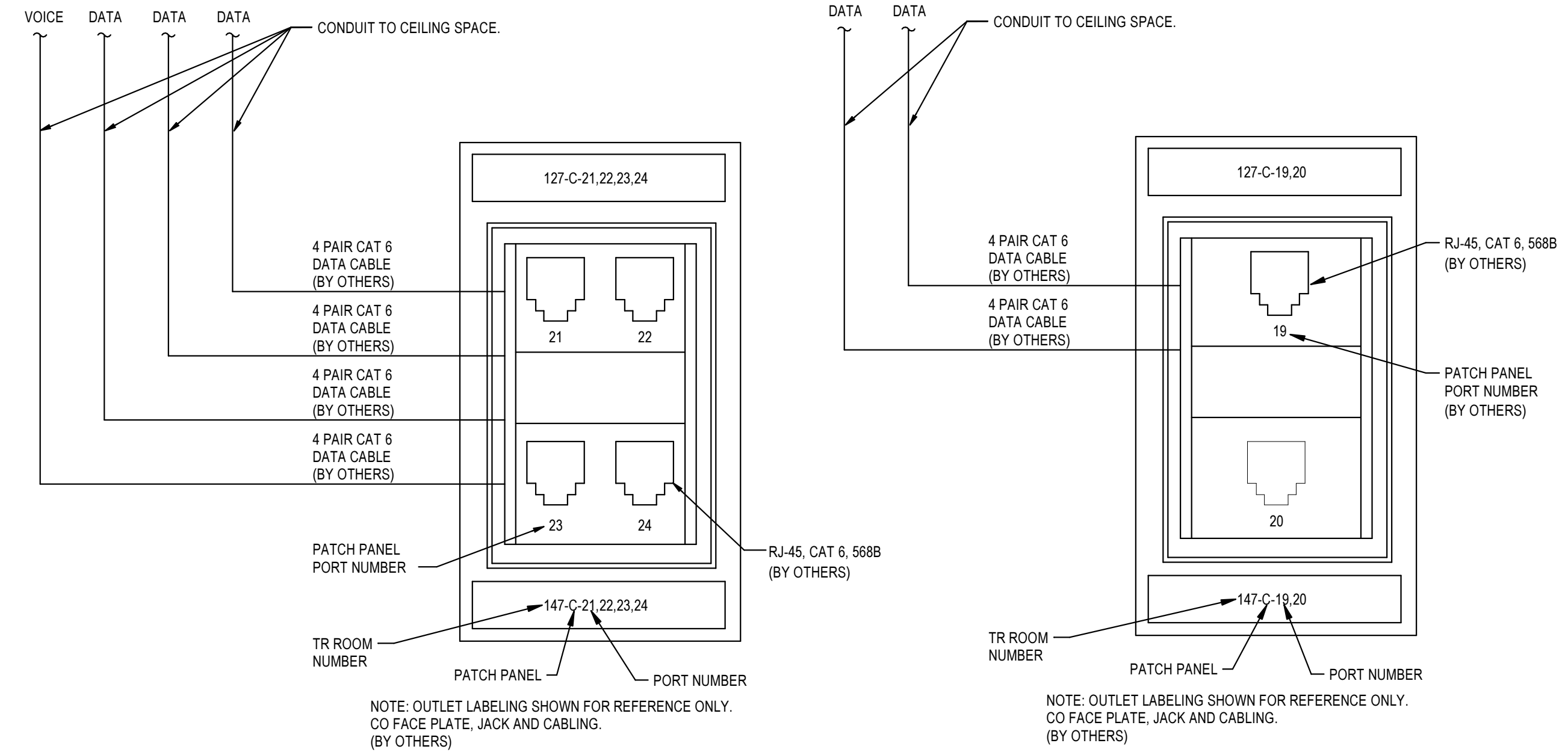
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ELECTRICAL RISERS AND PANEL SCHEDULES

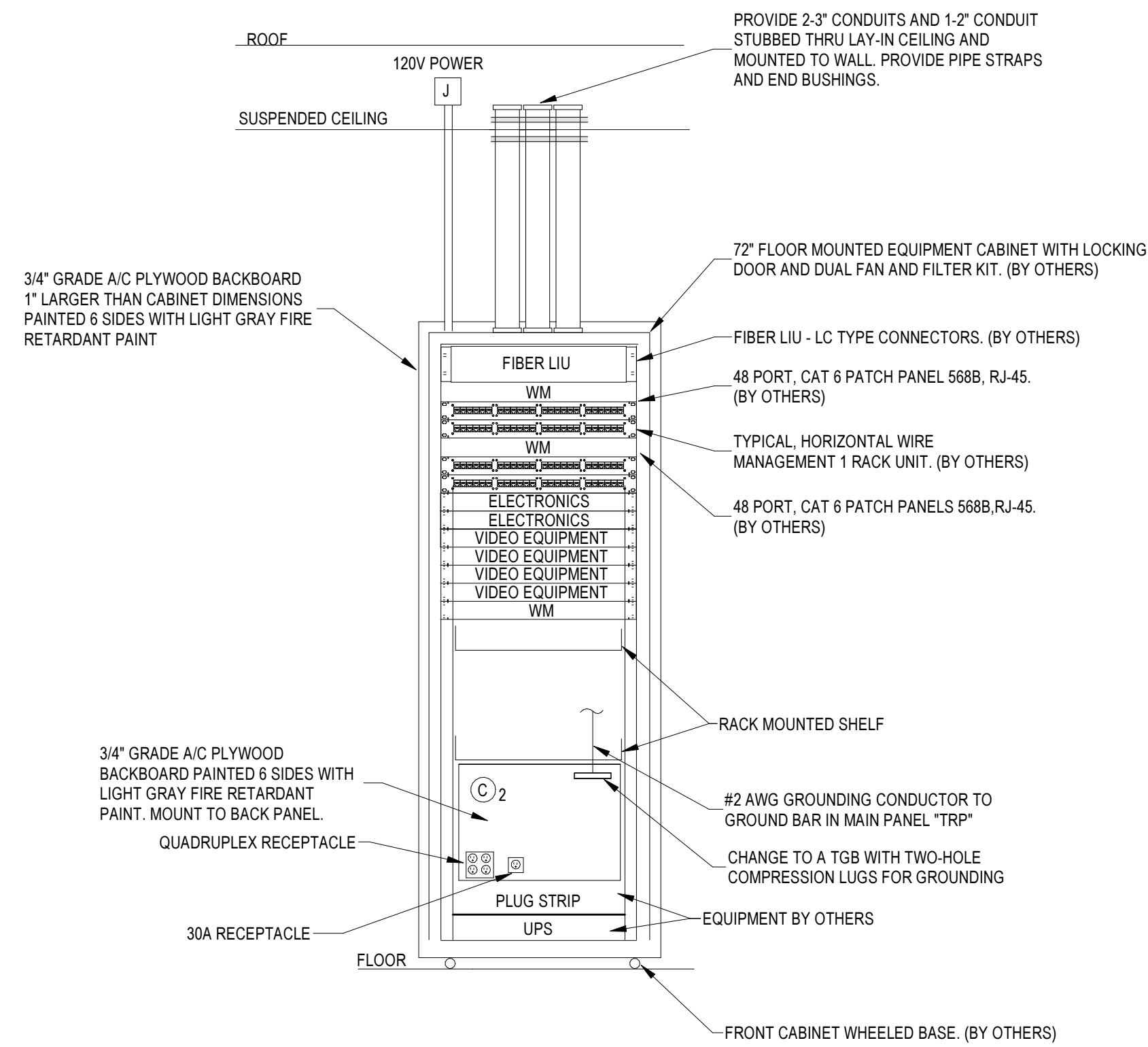


NOTE: PATCH PANEL LABELING SHOWN FOR REFERENCE ONLY. PATCH PANEL BY OTHERS.

5 LABELING PATCH PANELS DETAIL
SCALE: NTS

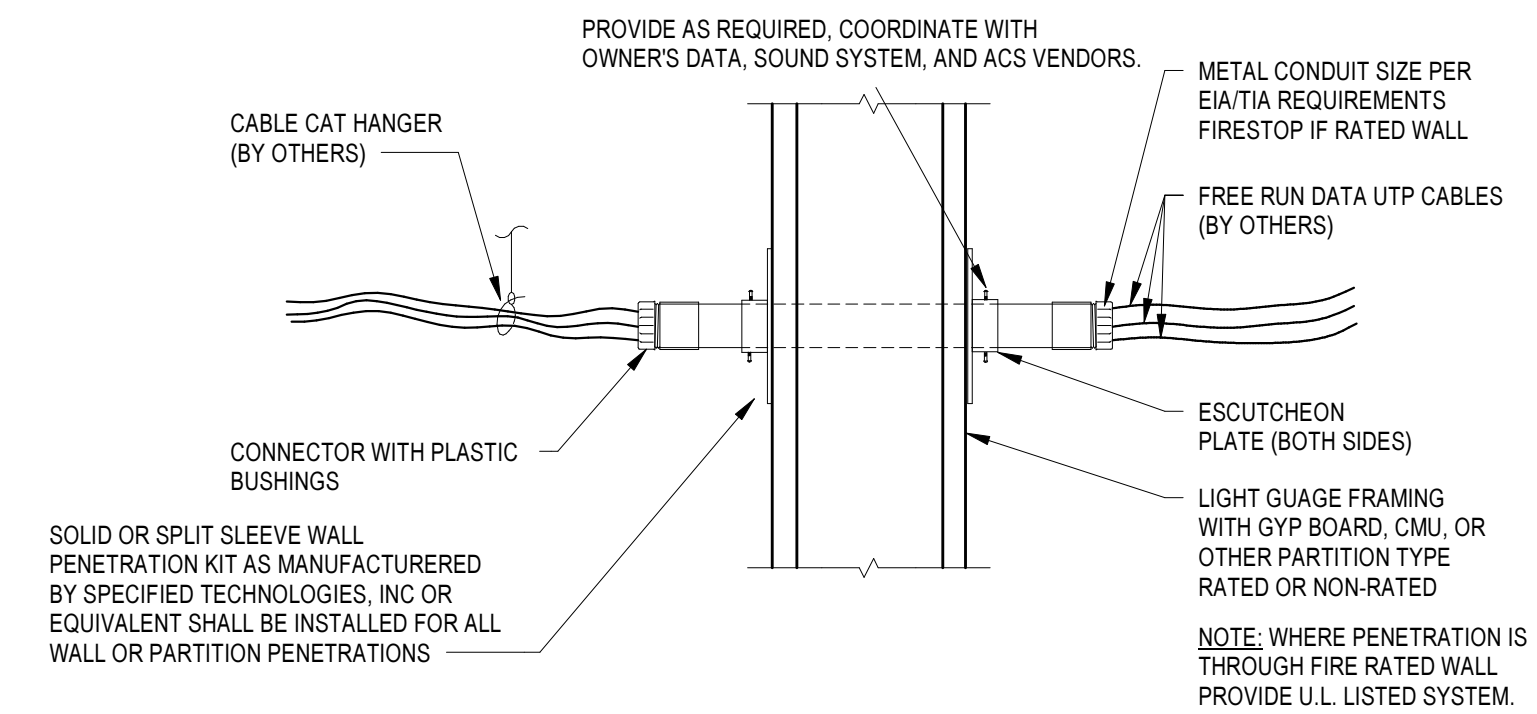


3 TYPICAL DUPLEX & QUAD COMMUNICATIONS OUTLET DETAIL
SCALE: NTS

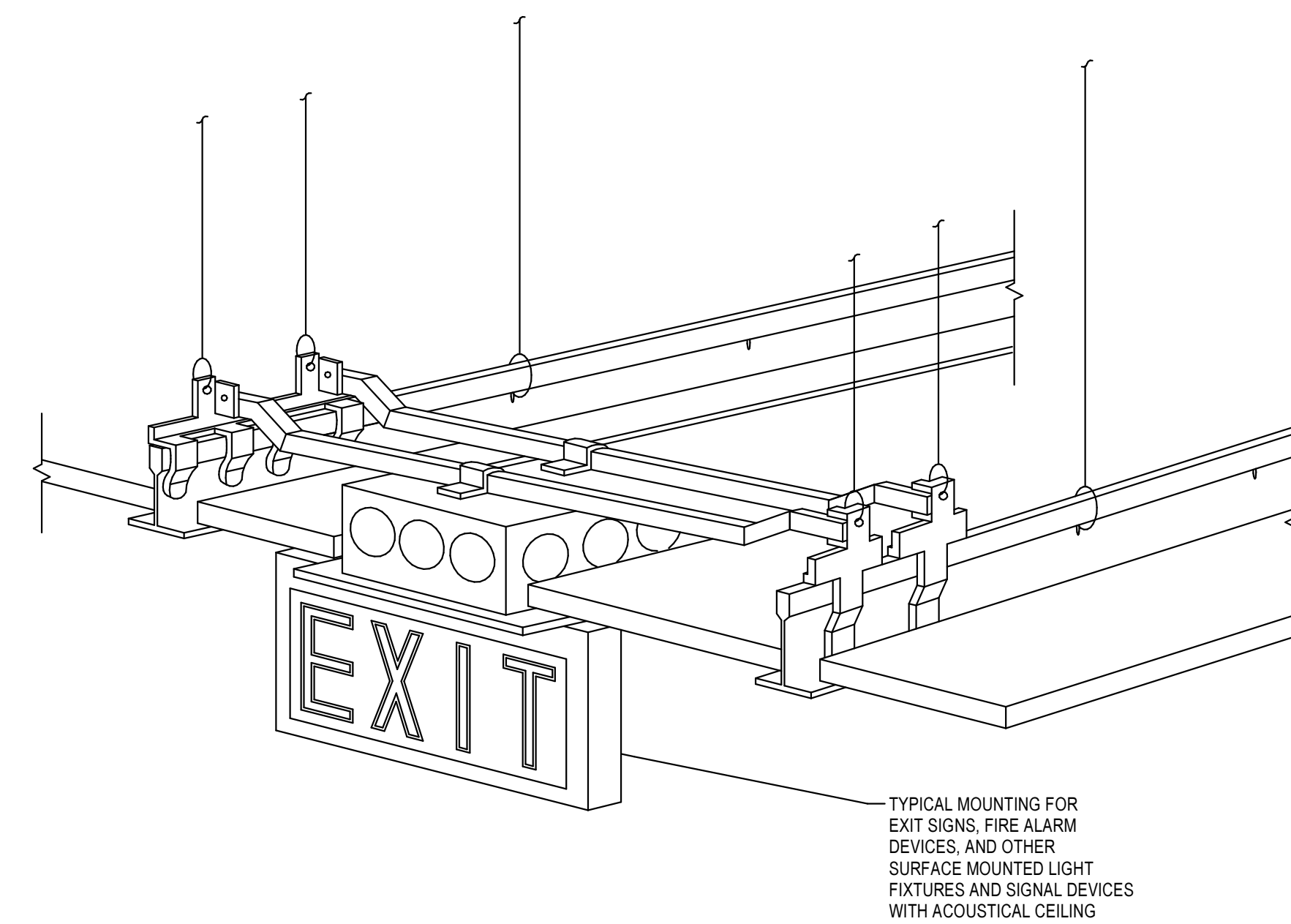


NOTE: DATA CABINET ELEVATION IS SHOWN FOR REFERENCE. DATA CABINET, LIU, WIRE MANAGEMENT PATCH PANELS, UPS, PLUG STRIP, SHELVES, CABLING, ETC. ARE PROVIDED BY OTHERS. UON, CONDUITS RECEPTACLES, OUTLETS, GROUNDBAR, PLYWOOD BACKBOARD AND GROUNDING CIRCUIT SHALL BE PROVIDED BY ELECTRICAL SUBCONTRACTOR.

4 TRAFFIC VIDEO ROOM IDF CABINET ELEVATION
SCALE: NTS



2 ELECTRICAL WALL PENETRATION TYPICAL SECTION
SCALE: NTS



1 GRID CEILING MOUNTING DETAIL
SCALE: NTS

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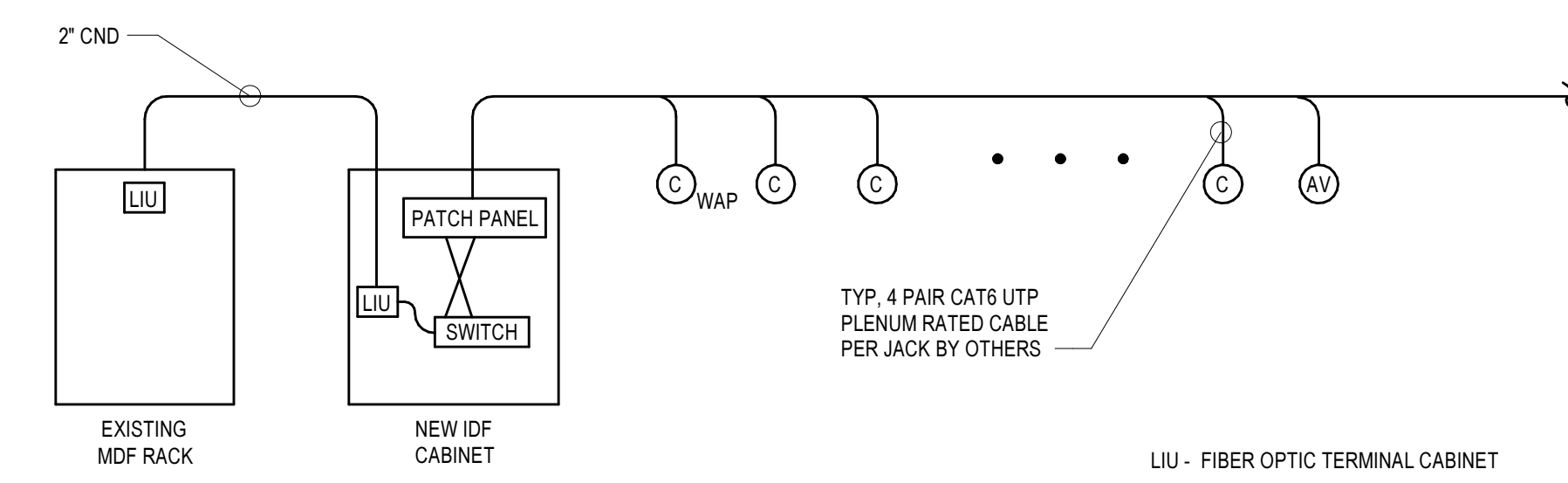
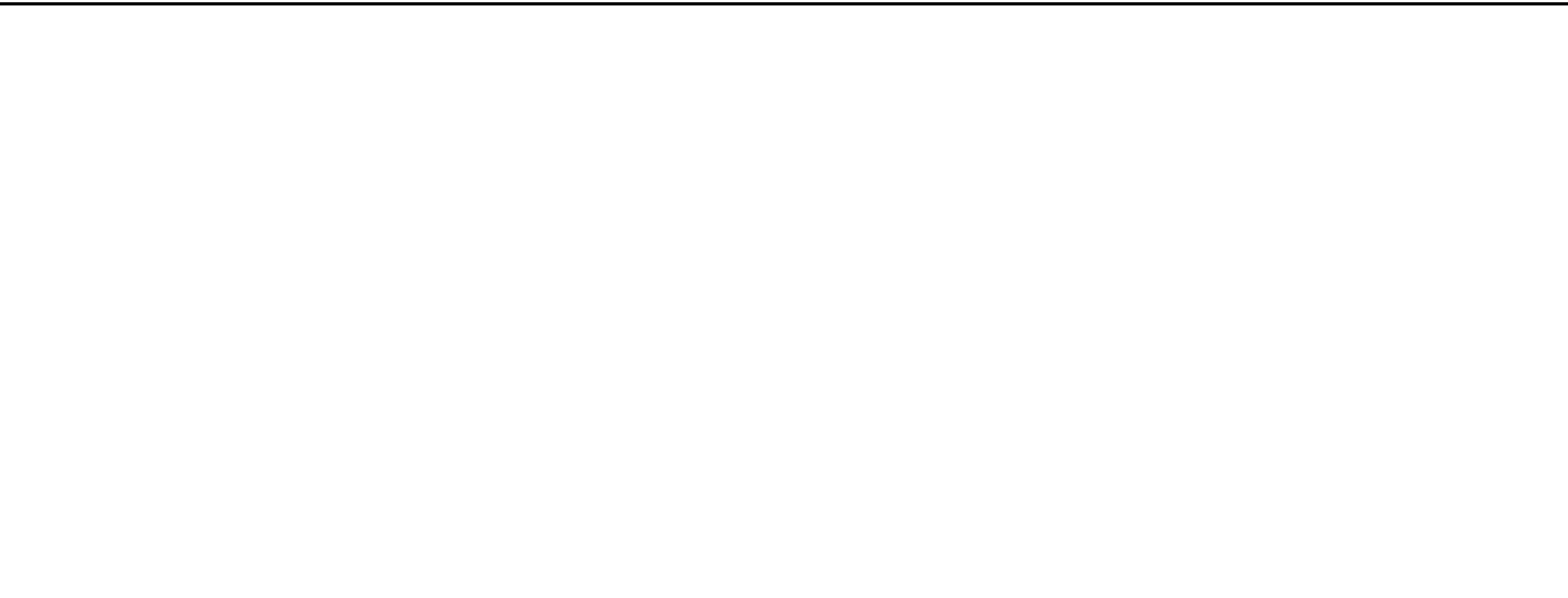
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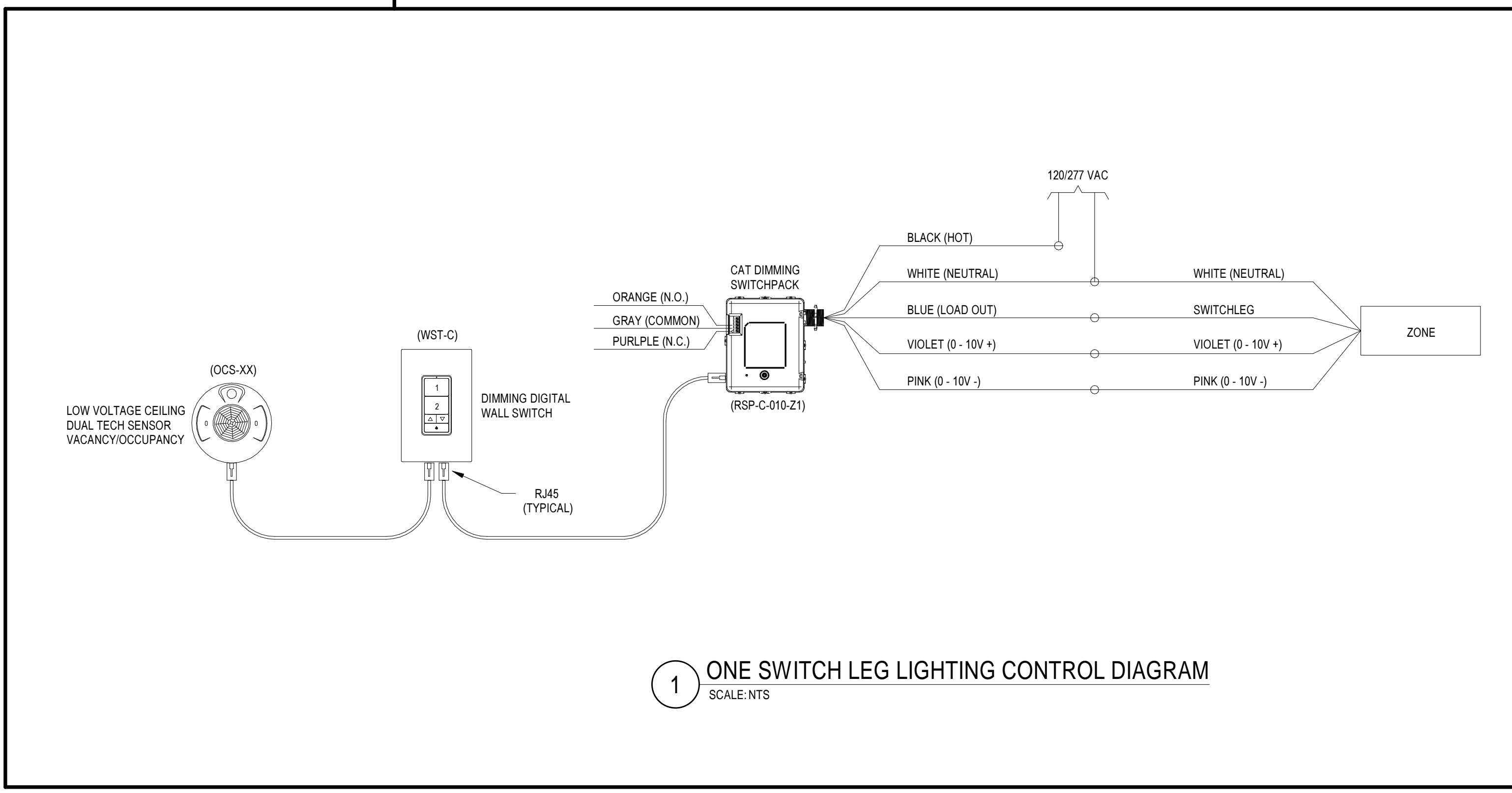
DETAILS

E7.1



NOTES:
 1. DATA RISER IS FOR REFERENCE ONLY. CONFIRM OUTLET QUANTITIES AND LOCATIONS WITH BUILDING PLANS AND SPECIFICATIONS.
 2. THIS RISER IS FOR REFERENCE ONLY. SIGNAL SYSTEM DEVICES, CABLING AND EQUIPMENT IS BY OWNER. CONTRACTOR SHALL PROVIDE ALL DEVICE OUTLET BOXES AND CONDUIT PATHWAYS TO SUPPORT SYSTEM. COORDINATE REQUIREMENTS WITH SIGNAL SYSTEM SHOP DWGS AND INSTALLER.

2 PARTIAL DATA RISER
 SCALE: NTS



1 ONE SWITCH LEG LIGHTING CONTROL DIAGRAM
 SCALE: NTS

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DETAILS

E7.2