



TREANORHL

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Issued For: IFC
Date: 07/03/2024

REVISIONS		
NO.	DESCRIPTION	DATE

FP101
LEVEL 3 FLOOR PLAN - FIRE PROTECTION
TreanorHL NO. HE0696.2402.00

FIRE PROTECTION LEGEND

- MODIFY EXISTING SPRINKLER SYSTEM AS REQUIRED TO SERVE THE RENOVATED PROJECT AREA
- AREA NOT IN PROJECT SCOPE

FIRE PROTECTION GENERAL NOTES

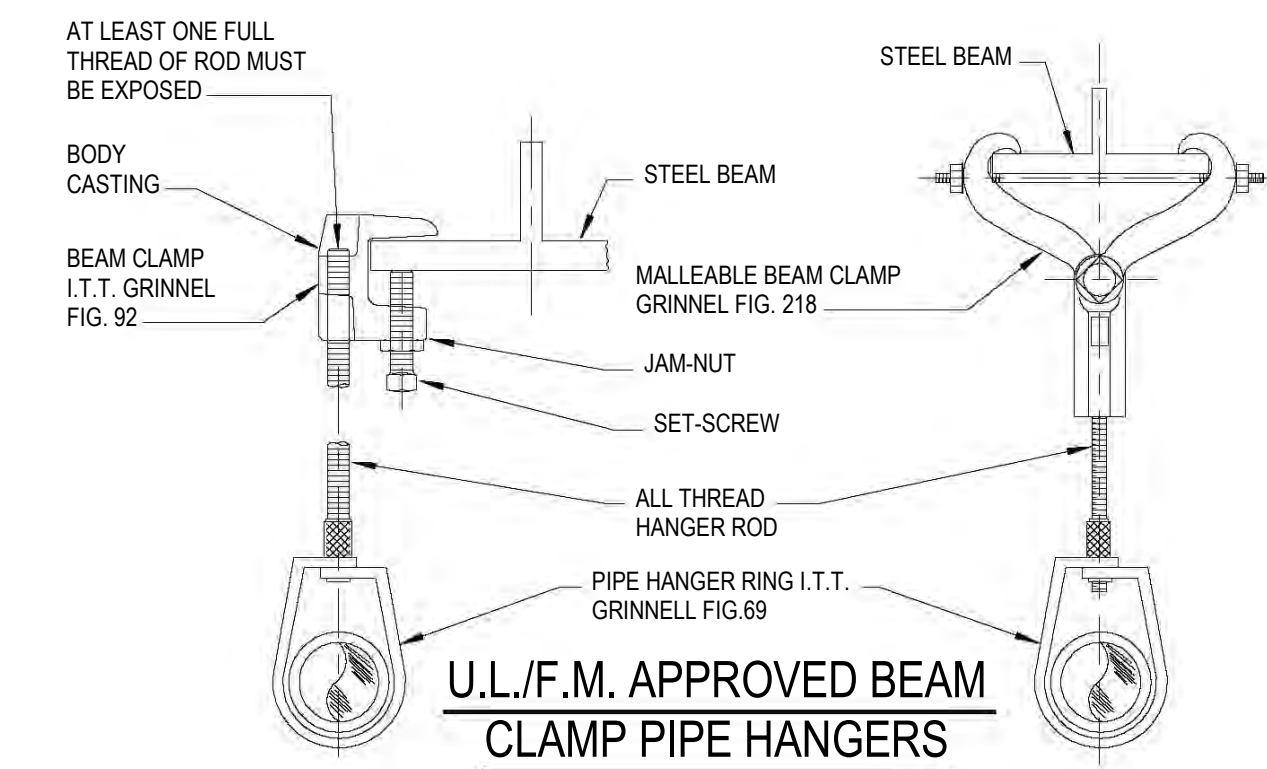
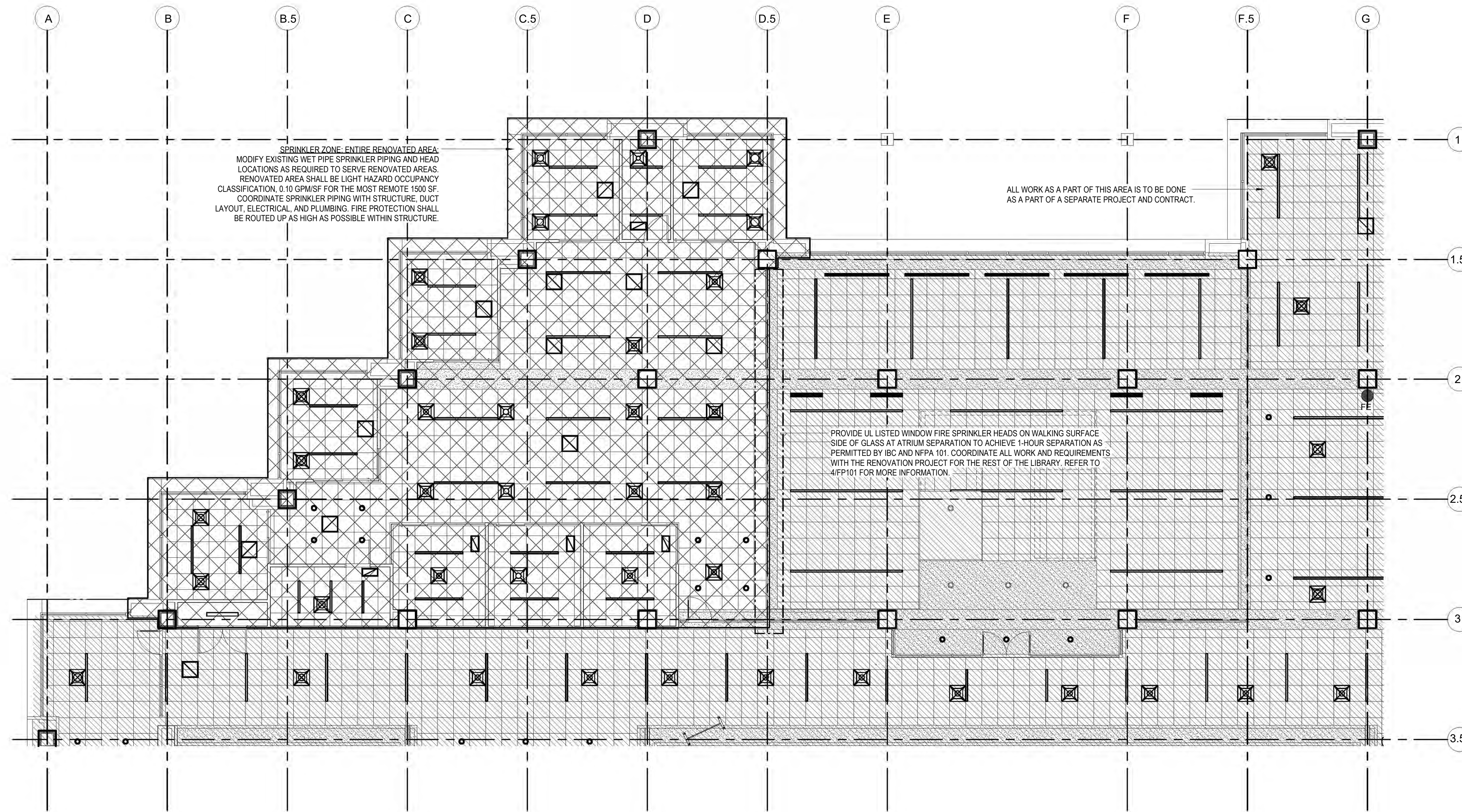
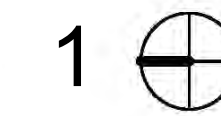
- THE WORK COVERED UNDER THIS SECTION CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND PERFORMING ALL OPERATIONS IN CONNECTION WITH MODIFYING THE EXISTING FIRE PROTECTION SYSTEM TO PROVIDE A COMPLETE, HYDRAULICALLY DESIGNED, WET AUTOMATIC FIRE SPRINKLER SYSTEM AS SPECIFIED, FOR THE ENTIRE RENOVATED PROJECT AREA. THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - COMPLETE DESIGN AND WORKING DRAWINGS MEETING APPLICABLE REQUIREMENTS
 - SPRINKLER HEADS (WET PIPE)
 - PIPING
 - VALVES
- THE FIRE PROTECTION SYSTEM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE CITY FIRE DEPARTMENT. THE SYSTEM SHALL COMPLY WITH ALL APPLICABLE CITY, STATE, AND NATIONAL CODES AND ORDINANCES, AND THE CODES, ORDINANCES AND REGULATIONS OF ALL OTHER RULING AUTHORITIES HAVING JURISDICTION, INCLUDING, BUT NOT LIMITED TO:
 - NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS
 - NFPA 14, STANDPIPE
- CONTRACTOR SHALL ARRANGE SPRINKLER HEADS REFERENCED TO ROOM CENTERLINES AND AXES TO ESTABLISH A PATTERN COMPLIMENTARY TO THE FINISHED CEILING. COORDINATE EXACT HEAD LOCATION AND PIPE ROUTING WITH THE ARCHITECT PRIOR TO INSTALLATION.
- SPRINKLER PIPING SHALL BE CONCEALED TO THE EXTENT POSSIBLE IN ALL BUT STRICTLY MECHANICAL UTILITY AREAS. ALL LAYOUTS OF SPRINKLER PIPING SHALL BE REVIEWED BY AND COORDINATED WITH THE ARCHITECT. FINAL APPROVAL OF PIPING LAYOUT, HEAD PLACEMENT, ETC. SHALL BE BY ARCHITECT. ALL EXPOSED TO VIEW PIPING SHALL BE PAINTED PER ARCHITECT'S DIRECTION. SPRINKLER HEADS SHALL NOT BE PAINTED.
- SPRINKLER HEADS SHALL BE FULLY RECESSED IN AREAS WITH FINISHED CEILING WHERE PIPING CAN BE CONCEALED. POP-OFF COVERS SHALL BE PAINTED TO MATCH FINISHED CEILING PAINT COLORS. SPRINKLER HEADS IN UTILITY OR MECHANICAL AREAS SHALL BE STANDARD CHROME FINISH, SIDE WALL, PENDANT OR UPRIGHT HEADS AS REQUIRED.
- ALL THREADED PIPING SHALL BE SCHEDULE 40 BLACK STEEL, NO EXCEPTIONS.
- FURNISH AND INSTALL ALL VALVES AND ACCESSORIES REQUIRED BY AUTHORITY HAVING JURISDICTION.
- SYSTEM TEST AND DRAIN VALVES SHALL BE COORDINATED WITH THE OWNER BY SPECIFICALLY CALLING TO THE OWNER'S ATTENTION THE LOCATION OF THESE SYSTEMS.
- SYSTEM SHALL BE THOROUGHLY CLEANED BY FLUSHING OUT WITH WATER UNTIL IT IS FREE FROM SAND, OIL, OR OTHER FOREIGN MATTER, PRIOR TO THE INSTALLATION OF HEADS AND ORIFICES.
- UPON AWARD OF THE CONTRACT FOR THE FIRE PROTECTION SYSTEM, THE CONTRACTOR SHALL PREPARE PRELIMINARY DRAWINGS AND SECURE THE APPROVAL OF THE OWNER AND ARCHITECT. ON APPROVAL OF THE OWNER AND ARCHITECT, THE CONTRACTOR SHALL PREPARE DETAILED WORKING DRAWINGS FOR THE SYSTEM AND SECURE THE APPROVAL OF THE UTILITY SYSTEM MARSHAL, THE OWNER'S INSURANCE CARRIER, AND ANY OTHER APPROVALS REQUIRED. A COPY OF THE APPROVAL LETTERS SHALL BE DELIVERED TO THE ARCHITECT PRIOR TO COMMENCING WORK.
- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PREPARE A LETTER OF GUARANTEE, WHICH SHALL GUARANTEE THE WORK AGAINST DEFECTS IN MATERIALS AND INSTALLATION AS OUTLINED UNDER THE GENERAL CONDITIONS. SECURE THE APPROVAL OR SEAL OF THE STATE RATING BUREAU AND PROVIDE THIS DOCUMENT TO THE ARCHITECT AND THE OWNER.
- THE FIRE PROTECTION PIPING SYSTEM SHALL BE HYDRAULICALLY CALCULATED BASED UPON 80 PERCENT RESIDUAL PRESSURE AVAILABLE PER A CONTRACTOR-PROVIDED FLOW TEST AT SITE, USING NFPA 13, SPRINKLER SYSTEMS CRITERIA.
- THE ARCHITECT SHALL HAVE THE FINAL AUTHORITY OVER ROUTING OF SPRINKLER RISER PIPING, SPRINKLER HEAD LOCATIONS, ETC. THE DESIGN OF THE AUTOMATIC FIRE SYSTEM SHALL BE CAREFULLY COORDINATED WITH THE ARCHITECT PRIOR TO SUBMISSION OF SHOP DRAWINGS AND SYSTEM INSTALLATION.
- THE USE OF UL LISTED FLEXIBLE TYPE HEAD ASSEMBLIES ARE PERMITTED. ANY FLEXIBLE HEAD ASSEMBLIES USED SHALL BE FACTORY PRE-ASSEMBLED EQUAL TO ANVIL FLEXHEAD. FIELD ASSEMBLED FLEXIBLE HEAD ASSEMBLIES ARE NOT ALLOWED.
- FIRE PROTECTION PLANS SHOWING ALL SPRINKLER HEAD LOCATIONS SHALL BE DESIGNED BY THE RESPECTIVE LICENSED CONTRACTOR. REFER TO SPECIFICATIONS FOR MORE INFORMATION AND REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR DESIGNING, FURNISHING, AND INSTALLING THE SYSTEM TO COMPLY WITH ALL STATE, ADA, TAS, NEC, AND NFPA CODES AND REQUIREMENTS IN ADDITION TO THOSE OF THE CITY OF FORT WORTH.

SHEET NOTES:

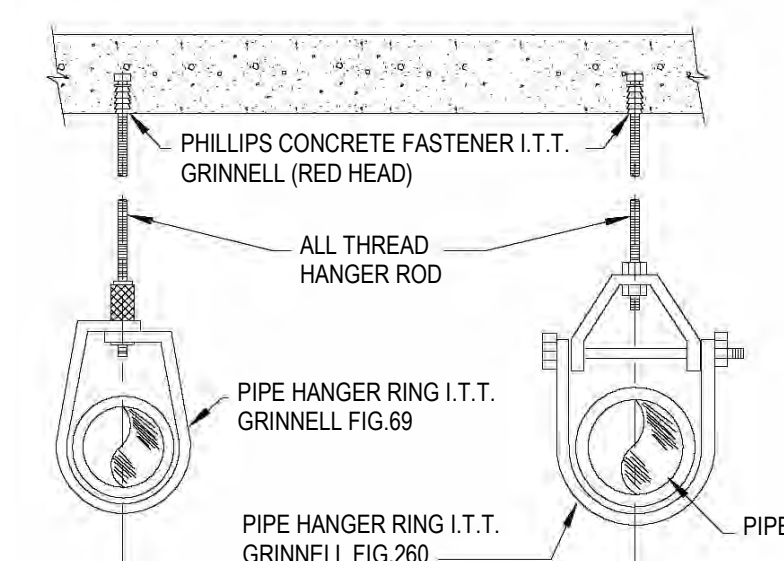
- THIS BUILDING WILL BE OCCUPIED DURING THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL CAREFULLY COORDINATE AND SCHEDULE ANY REQUIRED SHUTDOWNS WITH THE UNIVERSITY TO MINIMIZE DISTURPTIONS TO BUILDING OCCUPANTS.

LEVEL 3 FLOOR PLAN - FIRE PROTECTION

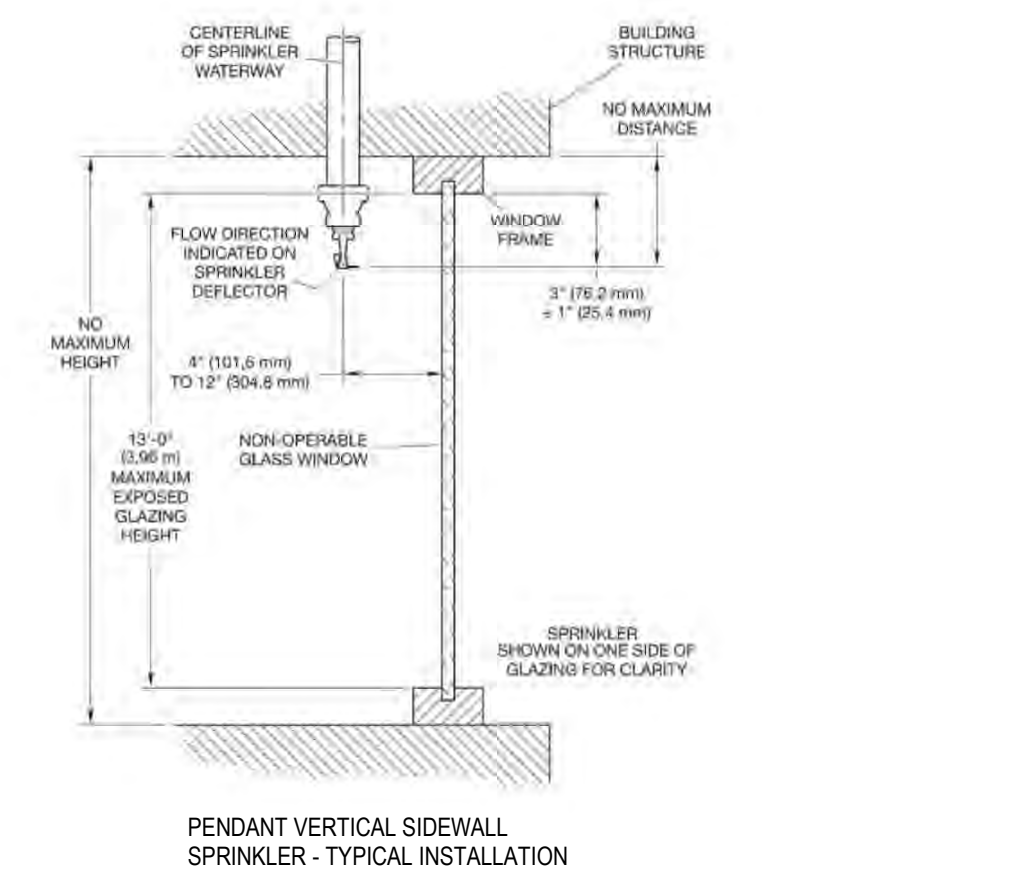
1/8" = 1'-0"



BEAM CLAMP HANGER NOT TO SCALE 2



CONCRETE INSERT HANGER NOT TO SCALE 3



- NOTES:
- FIRE SPRINKLER HEADS WILL BE REQUIRED ON THE WALKING SURFACE SIDES OF THE GLASS TO ACHIEVE 1-HOUR SEPARATION AS PERMITTED BY IBC AND NFPA 101. SPRINKLER HAS BEEN SHOWN ON ONLY ONE SIDE OF GLAZING IN THIS DETAIL FOR CLARITY.
 - DO NOT PLACE BLINDS, CURTAINS, OR OTHER WINDOW COVERINGS BETWEEN SPRINKLER AND GLAZING SURFACE.
 - DISTANCE BETWEEN SPRINKLER HEADS SHALL BE 6 FEET.
 - CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH UNITS FIRE MARSHAL.

UL LISTED WINDOW FIRE SPRINKLER HEAD DETAIL NOT TO SCALE 4



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BHB Project # 2023-029-010



7/2/2024

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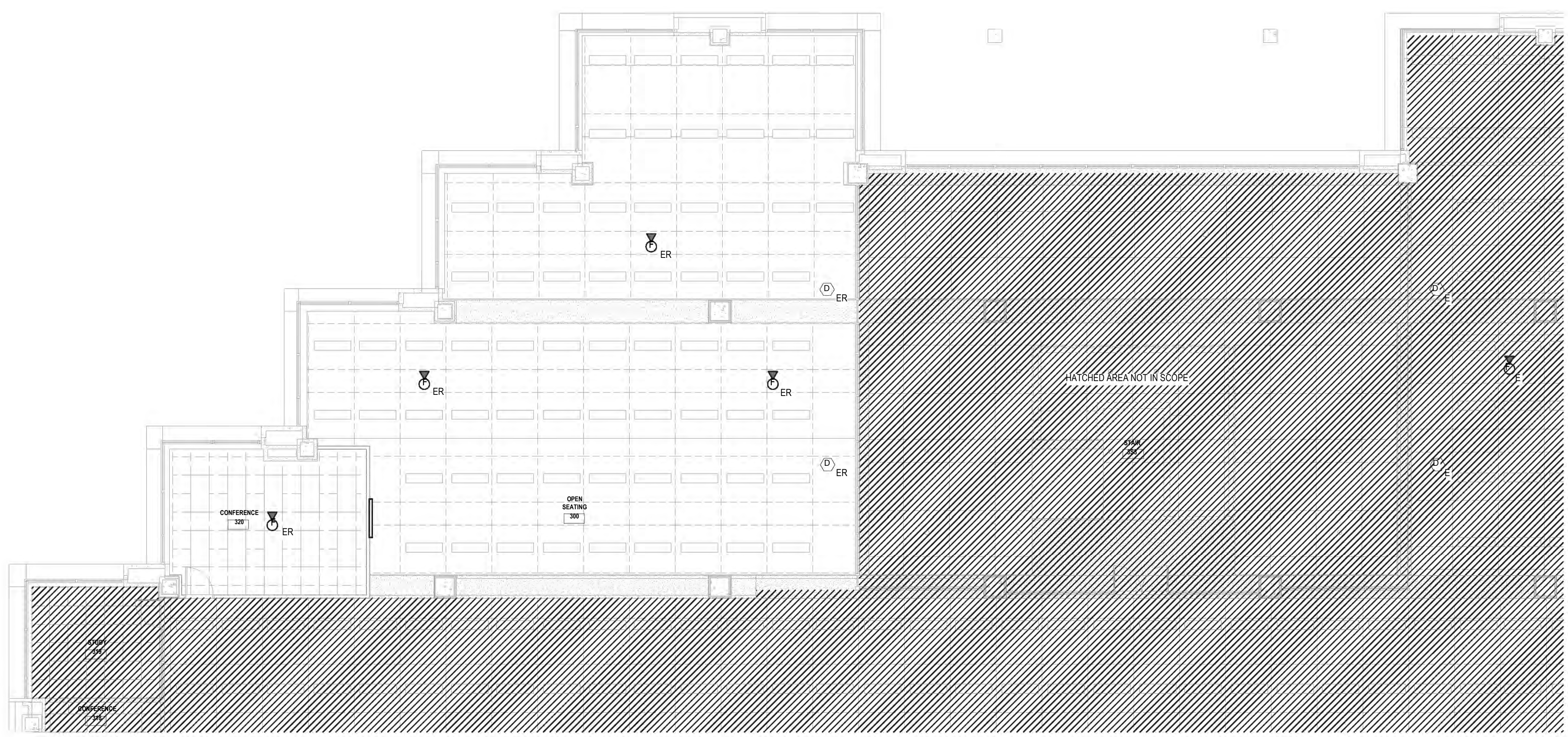
LEVEL 3 FLOOR PLAN - FIRE ALARM DEMOLITION

TreanorHL NO. RE0698-2402.00

ELECTRICAL SYMBOL LIST	
SYMBOL	DESCRIPTION
	FIRE ALARM STROBEHORN UNIT
	FIRE ALARM STROBE ONLY
	CEILING MTD SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
ER	INDICATES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED
E	INDICATES EXISTING DEVICE OR EQUIPMENT TO REMAIN

SHEET NOTES:

1. FIRE ALARM DEVICES INDICATED ON PLANS ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR DESIGNING, FURNISHING, AND INSTALLING THE SYSTEM TO COMPLY WITH ALL STATE, ADA, TAS, NEC, AND NFPA CODES AND REQUIREMENTS IN ADDITION TO THOSE OF THE CITY OF FORT WORTH.



LEVEL 3 FLOOR PLAN - FIRE ALARM DEMOLITION 1

1/8" = 1'-0"



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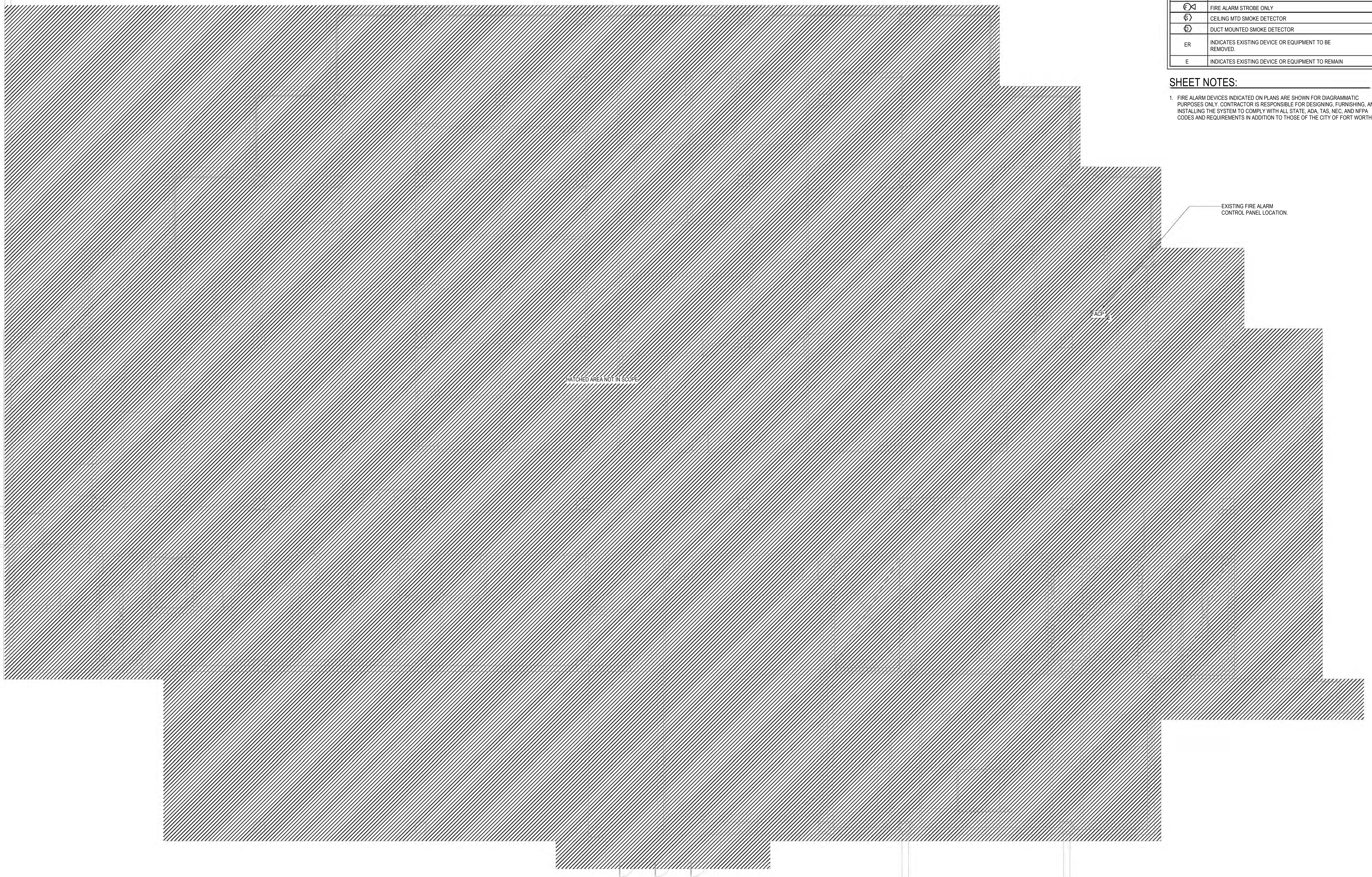
LEVEL 1 FLOOR PLAN - FIRE ALARM

TreanorHL NO. HE0698-2402-00

ELECTRICAL SYMBOL LIST	
SYMBOL	DESCRIPTION
	FIRE ALARM STROBE HORN UNIT
	FIRE ALARM STROBE ONLY
	CEILING MTD SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
ER	INDICATES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED.
E	INDICATES EXISTING DEVICE OR EQUIPMENT TO REMAIN

SHEET NOTES:

1. FIRE ALARM DEVICES INDICATED ON PLANS ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR DESIGNING, FURNISHING, AND INSTALLING THE SYSTEM TO COMPLY WITH ALL STATE, ADA, TAS, NEC, AND NFPA CODES AND REQUIREMENTS IN ADDITION TO THOSE OF THE CITY OF FORT WORTH.



LEVEL 1 FLOOR PLAN - FIRE ALARM 1

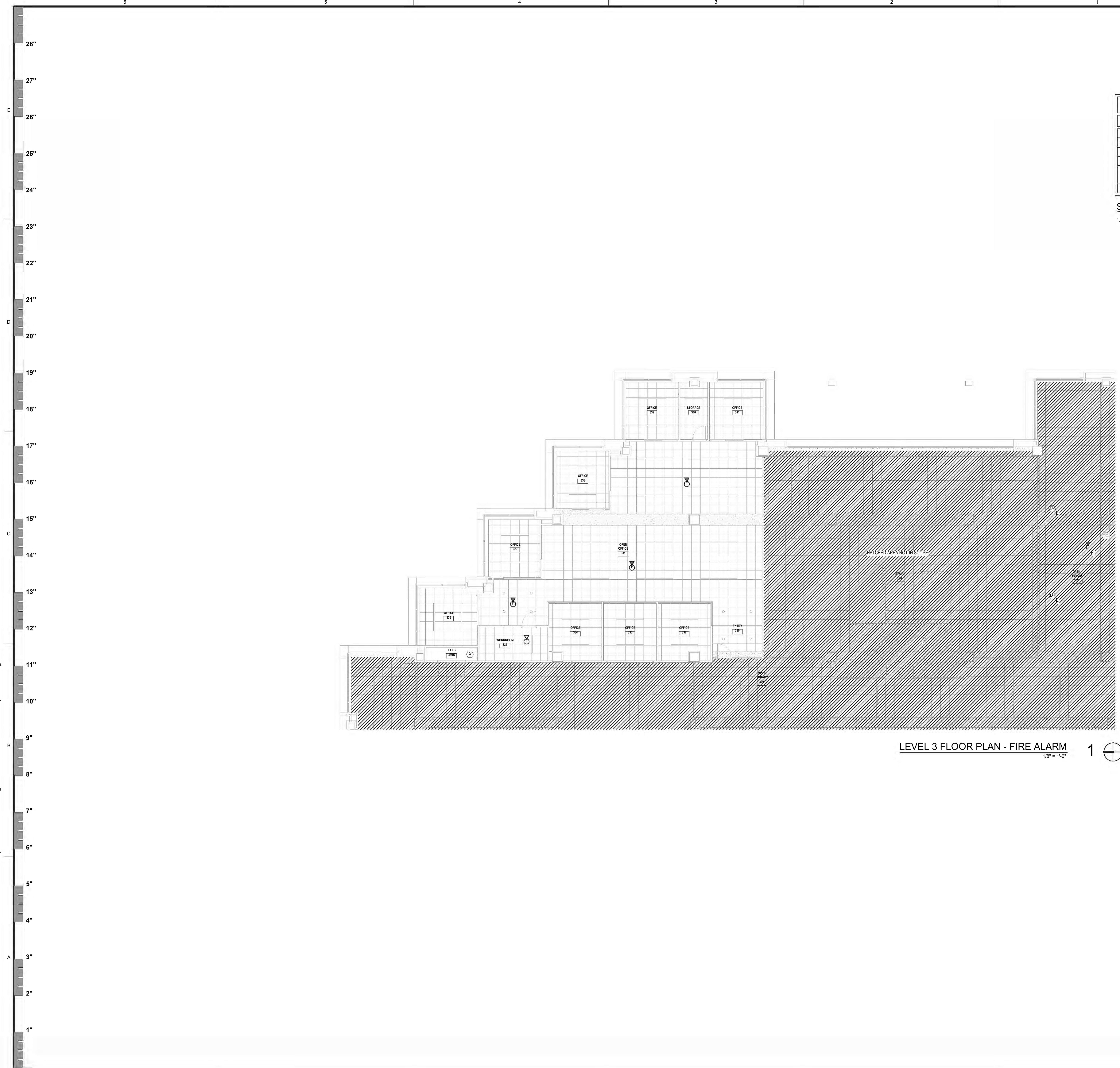
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LEVEL 3 FLOOR PLAN - FIRE ALARM 1

ELECTRICAL SYMBOL LIST	
SYMBOL	DESCRIPTION
	FIRE ALARM STROBEHORN UNIT
	FIRE ALARM STROBE ONLY
	CEILING MTD SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
ER	INDICATES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED
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FA102

LEVEL 3 FLOOR PLAN - FIRE ALARM

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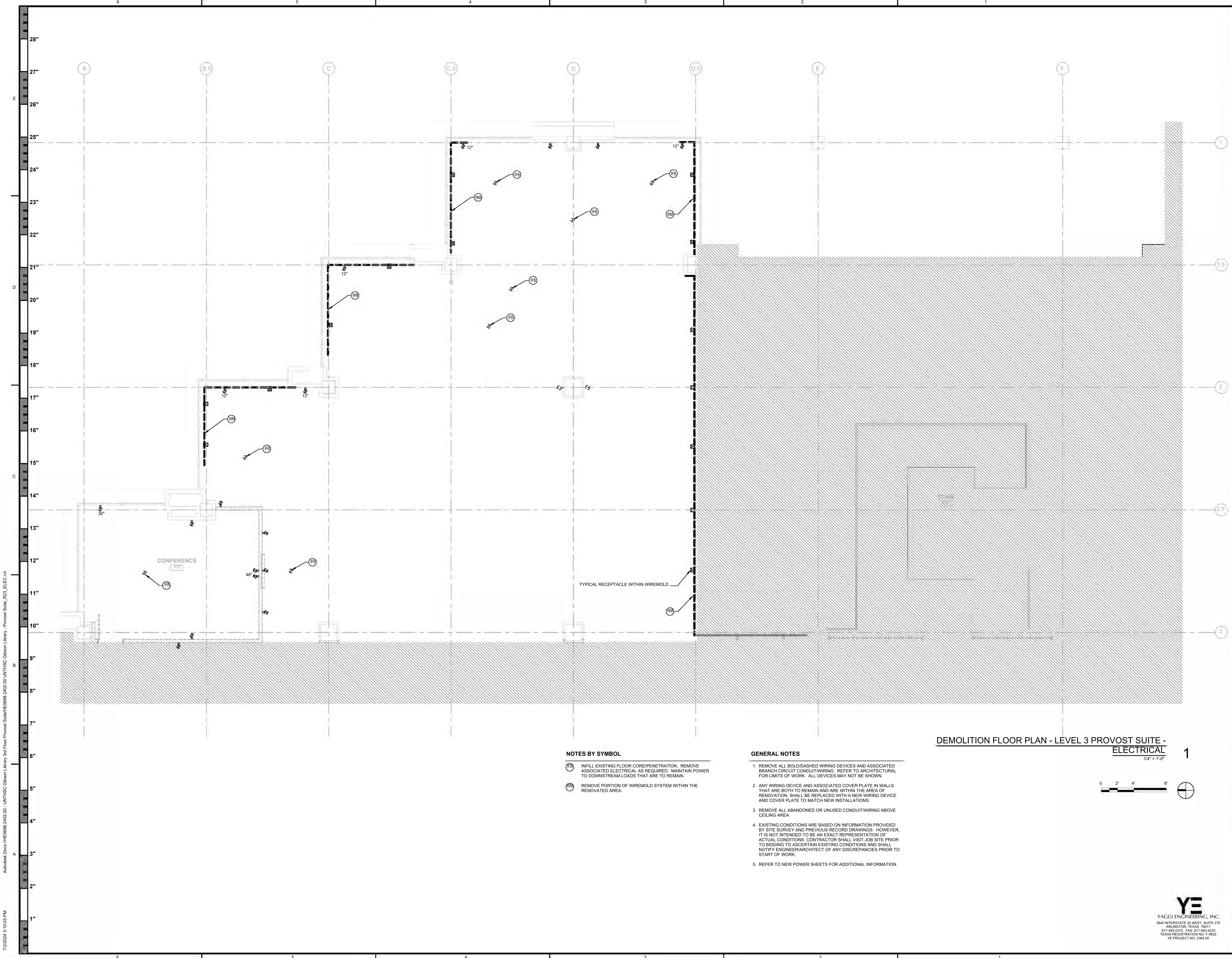
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DEMOLITION FLOOR PLAN - LEVEL 3 PROVOST SUITE - ELECTRICAL

TreanorHL NO. HE0698 2402 00



NOTES BY SYMBOL

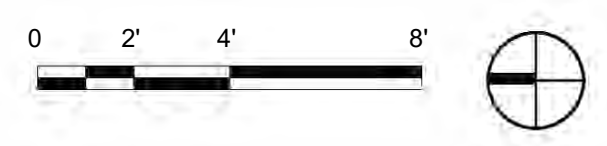
(FB) INFILL EXISTING FLOOR CORE/PENETRATION. REMOVE ASSOCIATED ELECTRICAL AS REQUIRED. MAINTAIN POWER TO DOWNSTREAM LOADS THAT ARE TO REMAIN.

(WM) REMOVE PORTION OF WIREMOLD SYSTEM WITHIN THE RENOVATED AREA.

GENERAL NOTES

1. REMOVE ALL BOLD/DASHED WIRING DEVICES AND ASSOCIATED BRANCH CIRCUIT CONDUIT/WIRING. REFER TO ARCHITECTURAL FOR LIMITS OF WORK. ALL DEVICES MAY NOT BE SHOWN.
2. ANY WIRING DEVICE AND ASSOCIATED COVER PLATE IN WALLS THAT ARE BOTH TO REMAIN AND ARE WITHIN THE AREA OF RENOVATION, SHALL BE REPLACED WITH A NEW WIRING DEVICE AND COVER PLATE TO MATCH NEW INSTALLATIONS.
3. REMOVE ALL ABANDONED OR UNUSED CONDUIT/WIRING ABOVE CEILING AREA.
4. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND PREVIOUS RECORD DRAWINGS. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK.
5. REFER TO NEW POWER SHEETS FOR ADDITIONAL INFORMATION.

DEMOLITION FLOOR PLAN - LEVEL 3 PROVOST SUITE - ELECTRICAL



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TEXAS REGISTRATION NO. F-9622
YE PROJECT NO. 2364.00

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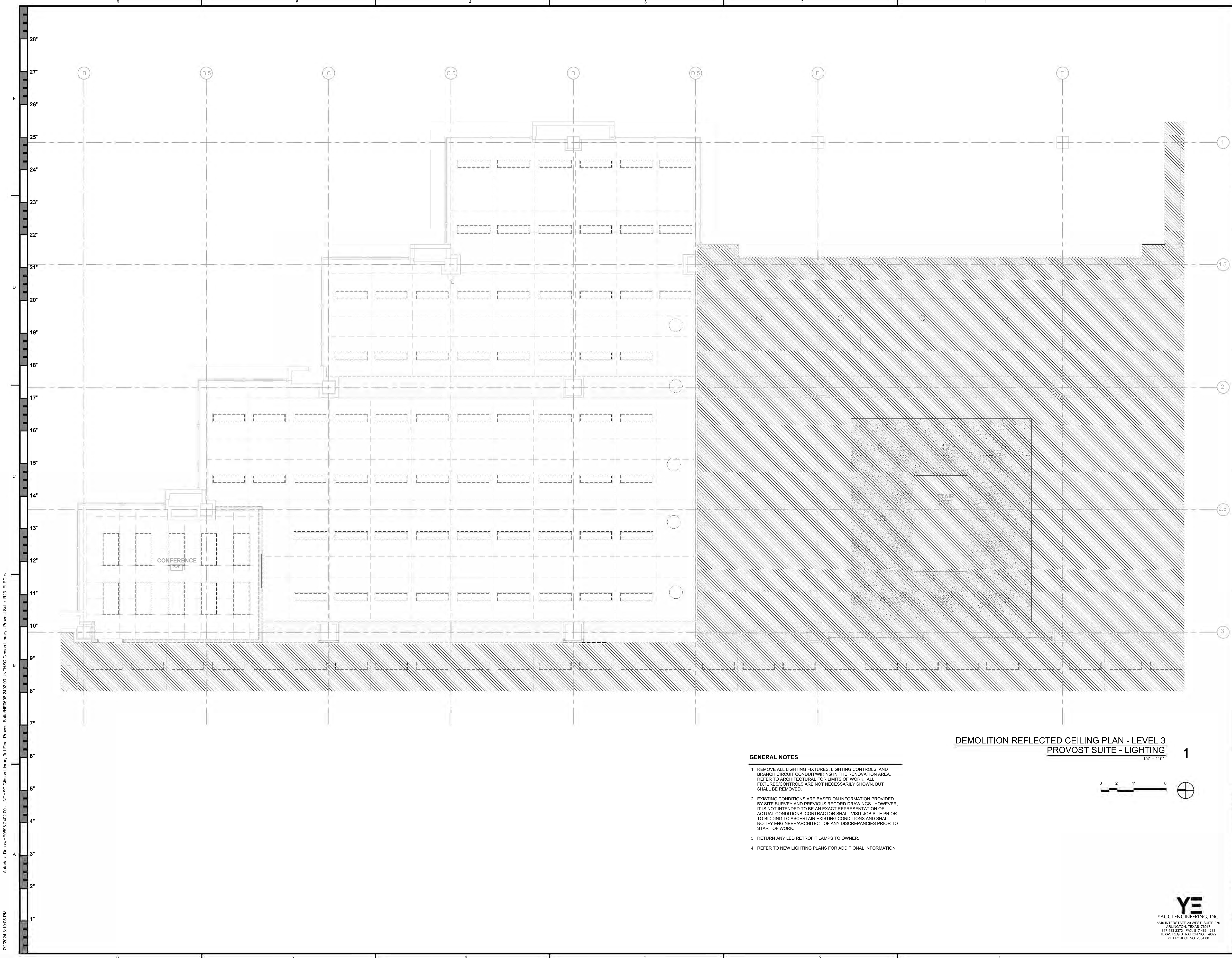
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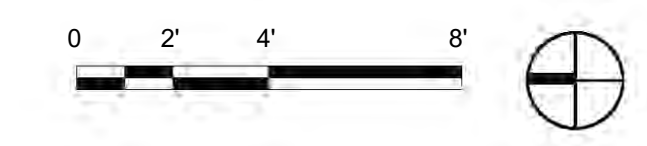
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NO.	DESCRIPTION	DATE

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DEMOLITION REFLECTED
CEILING PLAN - LEVEL 3
PROVOST SUITE -
LIGHTING
TreanorHL NO. RE0698 2402 00



DEMOLITION REFLECTED CEILING PLAN - LEVEL 3
PROVOST SUITE - LIGHTING 1
1/4" = 1'-0"



GENERAL NOTES

1. REMOVE ALL LIGHTING FIXTURES, LIGHTING CONTROLS, AND BRANCH CIRCUIT CONDUIT/WIRING IN THE RENOVATION AREA. REFER TO ARCHITECTURAL FOR LIMITS OF WORK. ALL FIXTURES/CONTROLS ARE NOT NECESSARILY SHOWN, BUT SHALL BE REMOVED.
2. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND PREVIOUS RECORD DRAWINGS. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK.
3. RETURN ANY LED RETROFIT LAMPS TO OWNER.
4. REFER TO NEW LIGHTING PLANS FOR ADDITIONAL INFORMATION.



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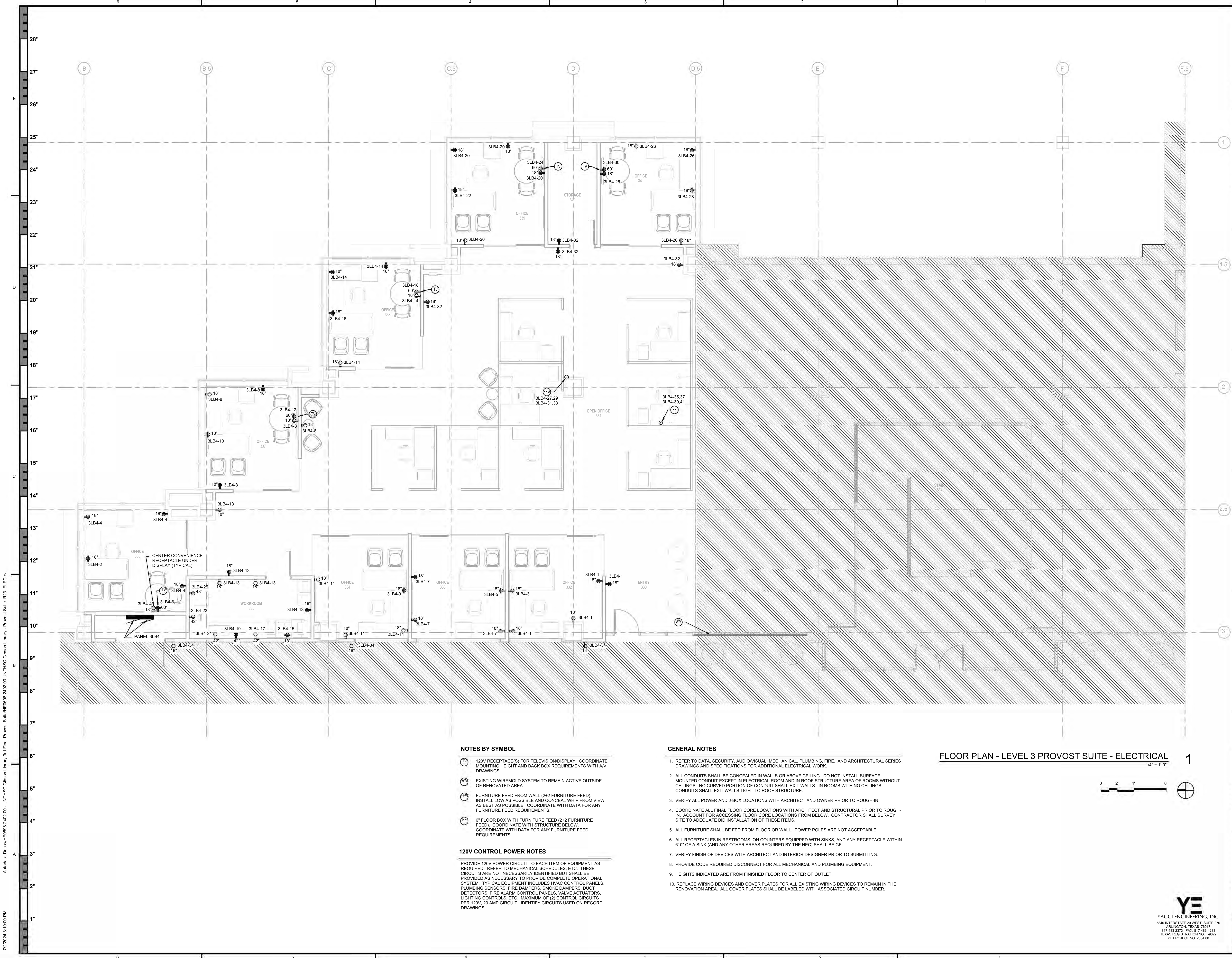


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E101
FLOOR PLAN - LEVEL 3
PROVOST SUITE -
ELECTRICAL
TreanorHL NO. HE0698-2402-00



NOTES BY SYMBOL

- 120V RECEPTACLE(S) FOR TELEVISION/DISPLAY. COORDINATE MOUNTING HEIGHT AND BACK BOX REQUIREMENTS WITH A/V DRAWINGS.
- EXISTING WIREMOLD SYSTEM TO REMAIN ACTIVE OUTSIDE OF RENOVATED AREA.
- FURNITURE FEED FROM WALL (2+2 FURNITURE FEED). INSTALL LOW AS POSSIBLE AND CONCEAL WHIP FROM VIEW AS BEST AS POSSIBLE. COORDINATE WITH DATA FOR ANY FURNITURE FEED REQUIREMENTS.
- 8" FLOOR BOX WITH FURNITURE FEED (2+2 FURNITURE FEED). COORDINATE WITH STRUCTURE BELOW. COORDINATE WITH DATA FOR ANY FURNITURE FEED REQUIREMENTS.

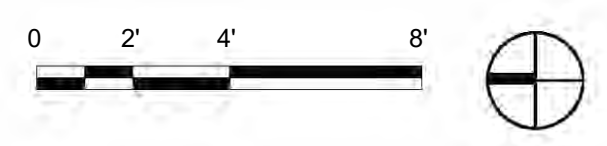
120V CONTROL POWER NOTES

PROVIDE 120V POWER CIRCUIT TO EACH ITEM OF EQUIPMENT AS REQUIRED. REFER TO MECHANICAL SCHEDULES, ETC. THESE CIRCUITS ARE NOT NECESSARILY IDENTIFIED BUT SHALL BE PROVIDED AS NECESSARY TO PROVIDE COMPLETE OPERATIONAL SYSTEM. TYPICAL EQUIPMENT INCLUDES HVAC CONTROL PANELS, PLUMBING SENSORS, FIRE DAMPERS, SMOKE DAMPERS, DUCT DETECTORS, FIRE ALARM CONTROL PANELS, VALVE ACTUATORS, LIGHTING CONTROLS, ETC. MAXIMUM OF (2) CONTROL CIRCUITS PER 120V, 20 AMP CIRCUIT. IDENTIFY CIRCUITS USED ON RECORD DRAWINGS.

GENERAL NOTES

1. REFER TO DATA, SECURITY, AUDIOVISUAL, MECHANICAL, PLUMBING, FIRE, AND ARCHITECTURAL SERIES DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ELECTRICAL WORK.
2. ALL CONDUITS SHALL BE CONCEALED IN WALLS OR ABOVE CEILING. DO NOT INSTALL SURFACE MOUNTED CONDUIT EXCEPT IN ELECTRICAL ROOM AND IN ROOF STRUCTURE AREA OF ROOMS WITHOUT CEILINGS. NO CURVED PORTION OF CONDUIT SHALL EXIT WALLS. IN ROOMS WITH NO CEILINGS, CONDUITS SHALL EXIT WALLS TIGHT TO ROOF STRUCTURE.
3. VERIFY ALL POWER AND J-BOX LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
4. COORDINATE ALL FINAL FLOOR CORE LOCATIONS WITH ARCHITECT AND STRUCTURAL PRIOR TO ROUGH-IN. ACCOUNT FOR ACCESSING FLOOR CORE LOCATIONS FROM BELOW. CONTRACTOR SHALL SURVEY SITE TO ADEQUATE BID INSTALLATION OF THESE ITEMS.
5. ALL FURNITURE SHALL BE FED FROM FLOOR OR WALL. POWER POLES ARE NOT ACCEPTABLE.
6. ALL RECEPTACLES IN RESTROOMS, ON COUNTERS EQUIPPED WITH SINKS, AND ANY RECEPTACLE WITHIN 6'-0" OF A SINK (AND ANY OTHER AREAS REQUIRED BY THE NEC) SHALL BE GFI.
7. VERIFY FINISH OF DEVICES WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO SUBMITTING.
8. PROVIDE CODE REQUIRED DISCONNECT FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.
9. HEIGHTS INDICATED ARE FROM FINISHED FLOOR TO CENTER OF OUTLET.
10. REPLACE WIRING DEVICES AND COVER PLATES FOR ALL EXISTING WIRING DEVICES TO REMAIN IN THE RENOVATION AREA. ALL COVER PLATES SHALL BE LABELED WITH ASSOCIATED CIRCUIT NUMBER.

FLOOR PLAN - LEVEL 3 PROVOST SUITE - ELECTRICAL 1



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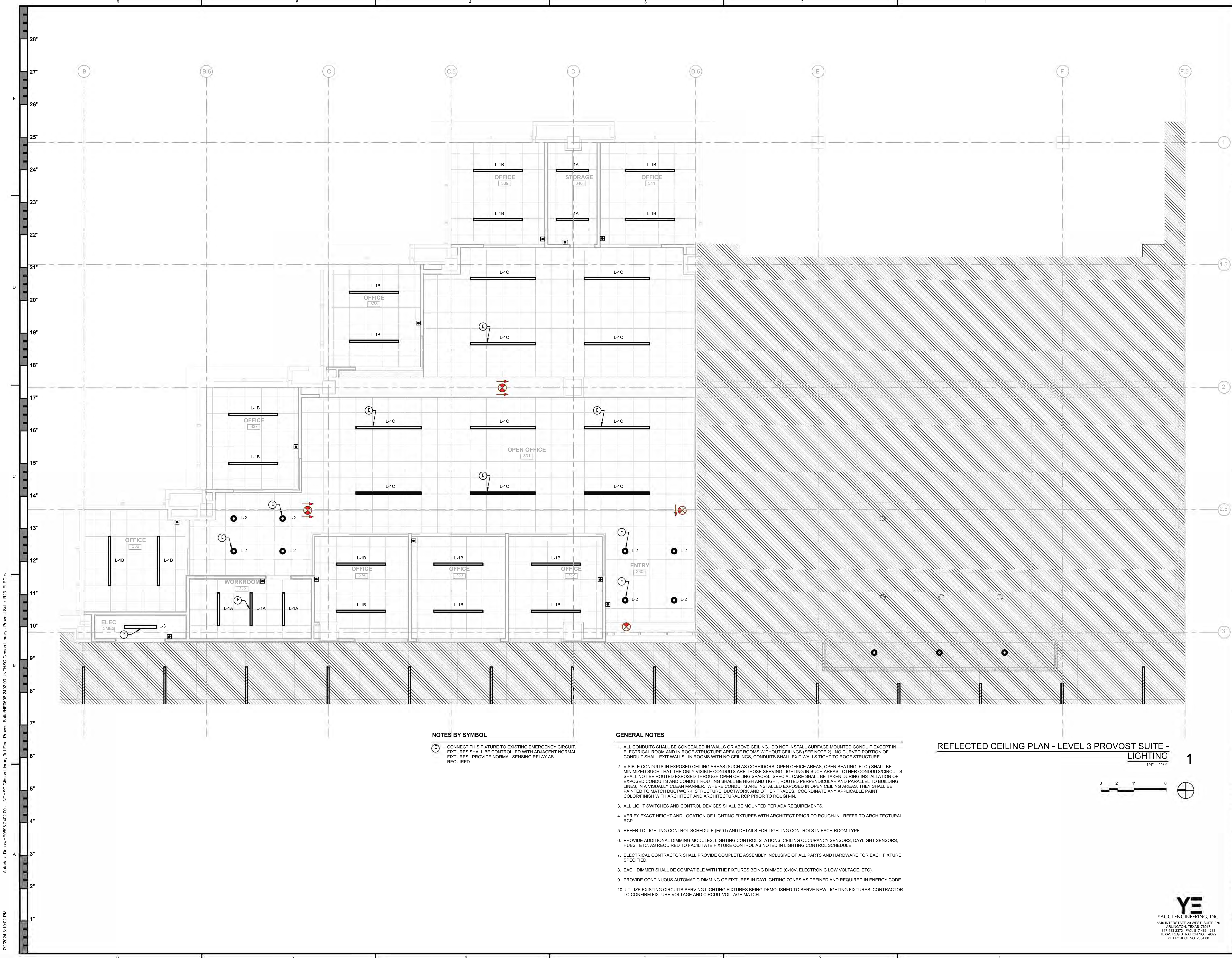
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Date: 06/03/2024

REVISIONS		
NO.	DESCRIPTION	DATE

E102

REFLECTED CEILING PLAN - LEVEL 3 PROVOST SUITE - LIGHTING

TreanorHL NO. HE0698-2402-00



NOTES BY SYMBOL
E CONNECT THIS FIXTURE TO EXISTING EMERGENCY CIRCUIT. FIXTURES SHALL BE CONTROLLED WITH ADJACENT NORMAL FIXTURES. PROVIDE NORMAL SENSING RELAY AS REQUIRED.

- GENERAL NOTES**
1. ALL CONDUITS SHALL BE CONCEALED IN WALLS OR ABOVE CEILING. DO NOT INSTALL SURFACE MOUNTED CONDUIT EXCEPT IN ELECTRICAL ROOM AND IN ROOF STRUCTURE AREA OF ROOMS WITHOUT CEILINGS (SEE NOTE 2). NO CURVED PORTION OF CONDUIT SHALL EXIT WALLS. IN ROOMS WITH NO CEILINGS, CONDUITS SHALL EXIT WALLS TIGHT TO ROOF STRUCTURE.
 2. VISIBLE CONDUITS IN EXPOSED CEILING AREAS (SUCH AS CORRIDORS, OPEN OFFICE AREAS, OPEN SEATING, ETC.) SHALL BE MINIMIZED SUCH THAT THE ONLY VISIBLE CONDUITS ARE THOSE SERVING LIGHTING IN SUCH AREAS. OTHER CONDUITS/CIRCUITS SHALL NOT BE ROUTED EXPOSED THROUGH OPEN CEILING SPACES. SPECIAL CARE SHALL BE TAKEN DURING INSTALLATION OF EXPOSED CONDUITS AND CONDUIT ROUTING SHALL BE HIGH AND TIGHT, ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES, IN A VISUALLY CLEAN MANNER. WHERE CONDUITS ARE INSTALLED EXPOSED IN OPEN CEILING AREAS, THEY SHALL BE PAINTED TO MATCH DUCTWORK, STRUCTURE, DUCTWORK AND OTHER TRADES. COORDINATE ANY APPLICABLE PAINT COLOR/FINISH WITH ARCHITECT AND ARCHITECTURAL RCP PRIOR TO ROUGH-IN.
 3. ALL LIGHT SWITCHES AND CONTROL DEVICES SHALL BE MOUNTED PER ADA REQUIREMENTS.
 4. VERIFY EXACT HEIGHT AND LOCATION OF LIGHTING FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL RCP.
 5. REFER TO LIGHTING CONTROL SCHEDULE (E501) AND DETAILS FOR LIGHTING CONTROLS IN EACH ROOM TYPE.
 6. PROVIDE ADDITIONAL DIMMING MODULES, LIGHTING CONTROL STATIONS, CEILING OCCUPANCY SENSORS, DAYLIGHT SENSORS, HUBS, ETC. AS REQUIRED TO FACILITATE FIXTURE CONTROL AS NOTED IN LIGHTING CONTROL SCHEDULE.
 7. ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE OF ALL PARTS AND HARDWARE FOR EACH FIXTURE SPECIFIED.
 8. EACH DIMMER SHALL BE COMPATIBLE WITH THE FIXTURES BEING DIMMED (0-10V, ELECTRONIC LOW VOLTAGE, ETC).
 9. PROVIDE CONTINUOUS AUTOMATIC DIMMING OF FIXTURES IN DAYLIGHTING ZONES AS DEFINED AND REQUIRED IN ENERGY CODE.
 10. UTILIZE EXISTING CIRCUITS SERVING LIGHTING FIXTURES BEING DEMOLISHED TO SERVE NEW LIGHTING FIXTURES. CONTRACTOR TO CONFIRM FIXTURE VOLTAGE AND CIRCUIT VOLTAGE MATCH.

REFLECTED CEILING PLAN - LEVEL 3 PROVOST SUITE - LIGHTING
1/4" = 1'-0"
0 2' 4' 8'
1



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BRANCH CIRCUIT WIRE SIZE SCHEDULE

DEVICE SERVED BY	CONDUIT/CONDUCTORS
1P-20A	2#12 & 1#12 GRD IN 1/2" C
2P-15A	2#12 & 1#12 GRD IN 1/2" C
2P-20A	2#12 & 1#12 GRD IN 1/2" C
3P-20A	3#12 & 1#12 GRD IN 1/2" C
3P-25A	3#10 & 1#10 GRD IN 3/4" C
1P-30A	2#10 & 1#10 GRD IN 3/4" C
2P-30A	2#10 & 1#10 GRD IN 3/4" C
3P-30A	3#10 & 1#10 GRD IN 3/4" C
3P-35A	3#8 & 1#10 GRD IN 3/4" C
2P-40A	2#8 & 1#10 GRD IN 3/4" C
3P-40A	3#8 & 1#10 GRD IN 3/4" C
2P-50A	2#6 & 1#10 GRD IN 1" C
3P-50A	3#6 & 1#10 GRD IN 1" C
2P-60A	2#4 & 1#10 GRD IN 1-1/4" C
3P-60A	3#4 & 1#10 GRD IN 1-1/4" C
2P-70A	2#4 & 1#8 GRD IN 1-1/4" C
3P-70A	3#4 & 1#8 GRD IN 1-1/4" C
2P-80A	2#3 & 1#8 GRD IN 1-1/4" C
3P-80A	3#3 & 1#8 GRD IN 1-1/4" C
2P-90A	2#2 & 1#8 GRD IN 1-1/2" C
3P-90A	3#2 & 1#8 GRD IN 1-1/2" C
2P-100A	2#1 & 1#8 GRD IN 1-1/2" C
3P-100A	3#1 & 1#8 GRD IN 2" C
3P-110A	3#1/0 & 1#8 GRD IN 1-1/2" C
3P-150A	3#1/0 & 1#8 GRD IN 1-1/2" C
3P-200A	3#3/0 & 1#8 GRD IN 2" C

NOTE: WIRE/CONDUIT SIZE SHOWN IS MINIMUM AND SHALL BE INCREASED IF SHOWN OTHERWISE ON DRAWINGS AND AS REQUIRED BY SPECIFICATIONS. PROVIDE NEUTRAL CONDUCTOR TO ROOFTOP HVAC UNITS WITH INTEGRAL RECEPTACLE.

INTERIOR LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER AND MODEL (OR APPROVED EQUAL)	MOUNTING	LED	LUMEN OUTPUT	VOLTAGE
L-1A	LINEAR 4'-0" LONG, 4" APERTURE, FLUSH LENS, SATIN LENS DISTRIBUTION, 0-10V DIMMABLE, WHITE FINISH, STANDARD OUTPUT, SEAMLESS LENS	PRUDENTIAL BIONICPRO4	RECESSED	7.8 WATTS/LF 4000K 80 CRI	925/LF	VERIFY EXISTING LIGHTING CIRCUIT VOLTAGE
L-1B	SAME AS TYPE L-1A EXCEPT 6'-0" LONG.	PRUDENTIAL BIONICPRO4	RECESSED	7.8 WATTS/LF 4000K 80 CRI	925/LF	VERIFY EXISTING LIGHTING CIRCUIT VOLTAGE
L-1C	SAME AS TYPE L-1A EXCEPT 8'-0" LONG.	PRUDENTIAL BIONICPRO4	RECESSED	7.8 WATTS/LF 4000K 80 CRI	925/LF	VERIFY EXISTING LIGHTING CIRCUIT VOLTAGE
L-2	4" DIAMETER ROUND DOWNLIGHT, 0-10V DIMMABLE TO 10%, DOWNLIGHT TRIM, CLEAR TRIM, MATTIE DIFFUSE TRIM FINISH.	LITHONIA LDW SERIES	RECESSED	17.5 WATTS 4000K 80 CRI	1500	VERIFY EXISTING LIGHTING CIRCUIT VOLTAGE
L-3	LINEAR STRIP, 48" LENGTH, STANDARD EFFICIENCY, NO LOUVER, FLAT DIFFUSE LENS, GENERAL DISTRIBUTION, 0-10V DIMMING, WHITE FINISH	LITHONIA CLX	SUSPENDED CHAIN HUNG	19 WATTS 4000K 80 CRI	3000	VERIFY EXISTING LIGHTING CIRCUIT VOLTAGE
EXIT	EXIT LIGHT, AC ONLY, ON EMERGENCY CIRCUIT, GREEN ON CLEAR MIRROR, BRUSHED ALUMINUM FINISH, # FACES AND DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS FOR EACH LOCATION.	LITHONIA LNP W/ ELA US12 STEM KIT AS REQUIRED	RECESSED/STEM REFER TO DWGS AND CONFIRM EACH WITH ARCHITECT	1.1 WATT		VERIFY EXISTING LIGHTING CIRCUIT VOLTAGE

NOTES:
1. LIGHTING SUBCONTRACTOR TO SUBMIT UNIFIED PHOTOMETRIC CALCULATIONS FOR ALL INTERIOR SPACES FOR APPROVAL INCLUDE WITH LIGHTING FIXTURE SUBMITTALS.
2. ALL FIXTURE FINISHES AND COLORS SHALL BE AS SELECTED BY ARCHITECT.
3. ALL FIXTURE HEIGHTS, LENGTHS, AND MOUNTING TYPES SHALL BE AS COORDINATED WITH ARCHITECT.
4. ALL FIXTURES SHALL BE PROVIDED WITH DIMMING DRIVERS.

ELECTRICAL SYMBOLS

	LIGHT FIXTURE - LETTER DENOTES TYPE		DISCONNECT SWITCH OR BREAKER
	STRIP LIGHT FIXTURE (SURFACE OR SUSPENDED) LETTER DENOTES TYPE		MOTOR CONTROLLER OR STARTER
	LIGHT FIXTURE - LETTER DENOTES TYPE		MOTOR
	WALL MOUNTED LIGHT FIXTURE - LETTER DENOTES TYPE		TELEPHONE/DATA OUTLET (REFER TO DATA DRAWINGS)
	REPLACEMENT OF EXIT LIGHT - ARROW AS INDICATED		MOTOR CIRCUIT SWITCH
	NEW EXIT LIGHT (COLORED RED) - ARROW AS INDICATED		WEATHERPROOF
	JUNCTION BOX		A.B.F. ABOVE FINISHED FLOOR
	CONDUIT CONCEALED IN CEILING OR WALL		G.F.I. GROUND FAULT INTERRUPTER
	CONDUIT CONCEALED BELOW GRADE OR BELOW FLOOR - SEE SPECS		LIGHTING CONTROL STATION (REFER TO LIGHTING CONTROL SCHEDULE)
	CONDUIT HOMERUN		POKE-THRU FLOOR BOX
			SINGLE POLE KEYED SWITCH
			DUPLEX RECEPTACLE
			QUADRAPLEX RECEPTACLE
			SPECIAL PURPOSE OUTLET

ALL SYMBOLS SHOWN IN SYMBOL LIST ARE NOT NECESSARILY USED.

INTERIOR LIGHTING CONTROL SCHEDULE

LIGHTING CONTROL TYPE	ROOM TYPE	VACANCY SENSORS	OCCUPANCY SENSORS	POWER PACK OR RELAY MODULE	0-10V DIMMING CONTROL	PRESET SCENE CONTROL	ON FUNCTION	OFF FUNCTION	ZONE 1	ZONE 2	ZONE 3	NOTES
1	ENTRY		X	X	X	X	AUTO TO 50% MANUAL TO 100% PROGRAMMABLE	AUTO (20 MIN) OR MANUAL				PROVIDE AUTOMATIC CONTINUOUS DIMMING OF FIXTURES IN DAYLIGHTING ZONES WHERE APPLICABLE PER ENERGY CODE.
	OPEN OFFICE		X	X	X	X			(6) L-1C (FRONT 2 ROWS)	(4) L-1C (BACK 2 ROWS)	(4) L-2	
	WORKROOM		X	X	X	X						
2	PRIVATE OFFICE	X		X	X	X	MANUAL TO 100%	AUTO (20 MIN) OR MANUAL				ALL FIXTURES
	STORAGE	X		X	X	X						
MANUAL	ELECTRICAL						MANUAL TO 100%	MANUAL				ALL FIXTURES

NOTES:
1. THIS CONTROL SCHEDULE INCLUDES TYPICAL ROOMS AND DOES NOT INCLUDE ALL SPACES TO BE CONTROLLED BY LOW VOLTAGE LIGHTING CONTROL SYSTEMS. ALL SPACES IN PROJECT SHALL BE CONTROLLED BY LIGHTING CONTROL SYSTEMS EXCEPT ROOMS SPECIFICALLY LISTED AS "MANUAL SWITCHES" TYPE. INCLUDE ALL BUILDING SPACES EVEN THOUGH NOT NECESSARILY INCLUDED IN THIS SCHEDULE.
2. "ALL FIXTURES" DENOTES THAT ALL FIXTURES IN ROOM SHALL BE CONTROLLED.
3. VARIOUS ROOM TYPES ARE TYPICAL. REFER TO FLOOR PLANS FOR QUANTITY OF ROOMS.
4. REFER TO FLOOR PLANS FOR QUANTITY OF LOW VOLTAGE CONTROL STATIONS.
5. PROVIDE QUANTITY OF SENSORS TO ACHIEVE 100% ROOM COVERAGE FOR ROOMS WITH VACANCY/OCCUPANCY SENSORS.
6. SUBMIT PHOTOMETRIC CALCULATIONS FOR ALL INTERIOR SPACES. INCLUDE IN FIXTURE SUBMITTALS.

LIGHTING CONTROLS BASIS OF DESIGN IS WIRED ACUITY LIGHT. CONFIRM IF BUILDING HAS ANY EXISTING LIGHT GATEWAYS, AND IF NOT, THEN PROVIDE GATEWAYS AS REQUIRED.

PROVIDE ALL REQUIRED COMPONENTS FOR NETWORKED LIGHTING CONTROL SYSTEM.

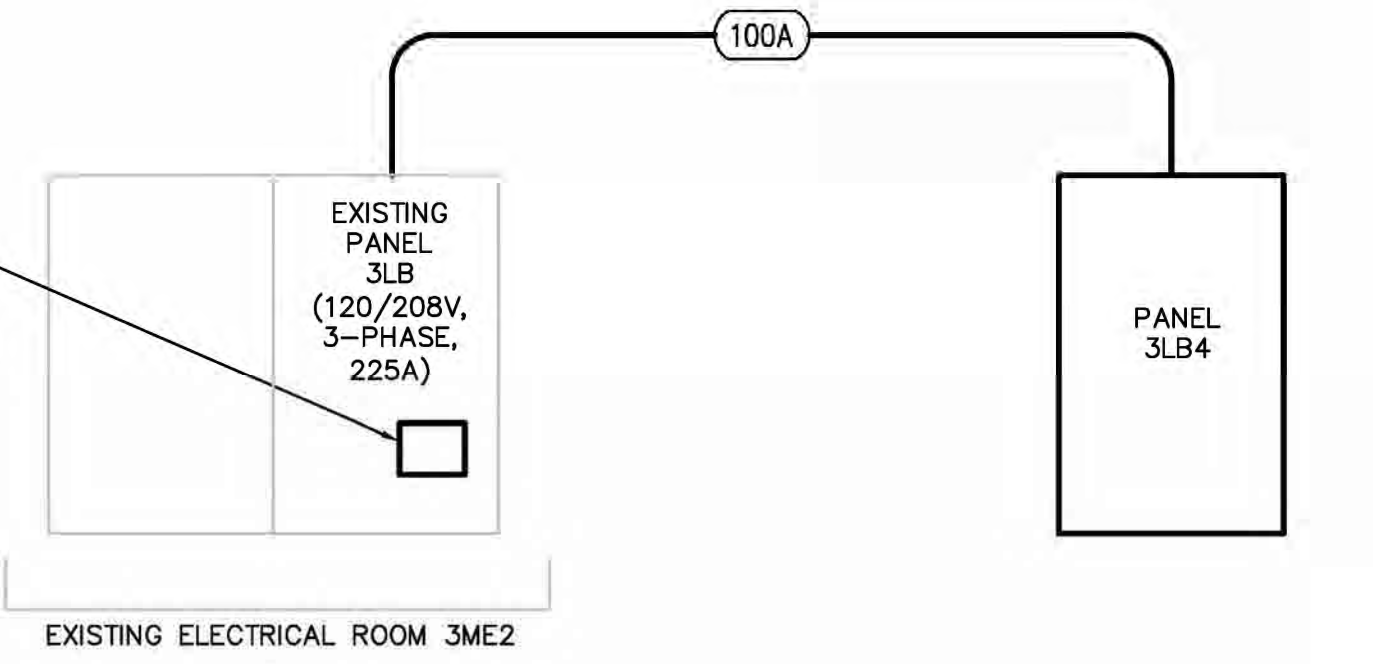
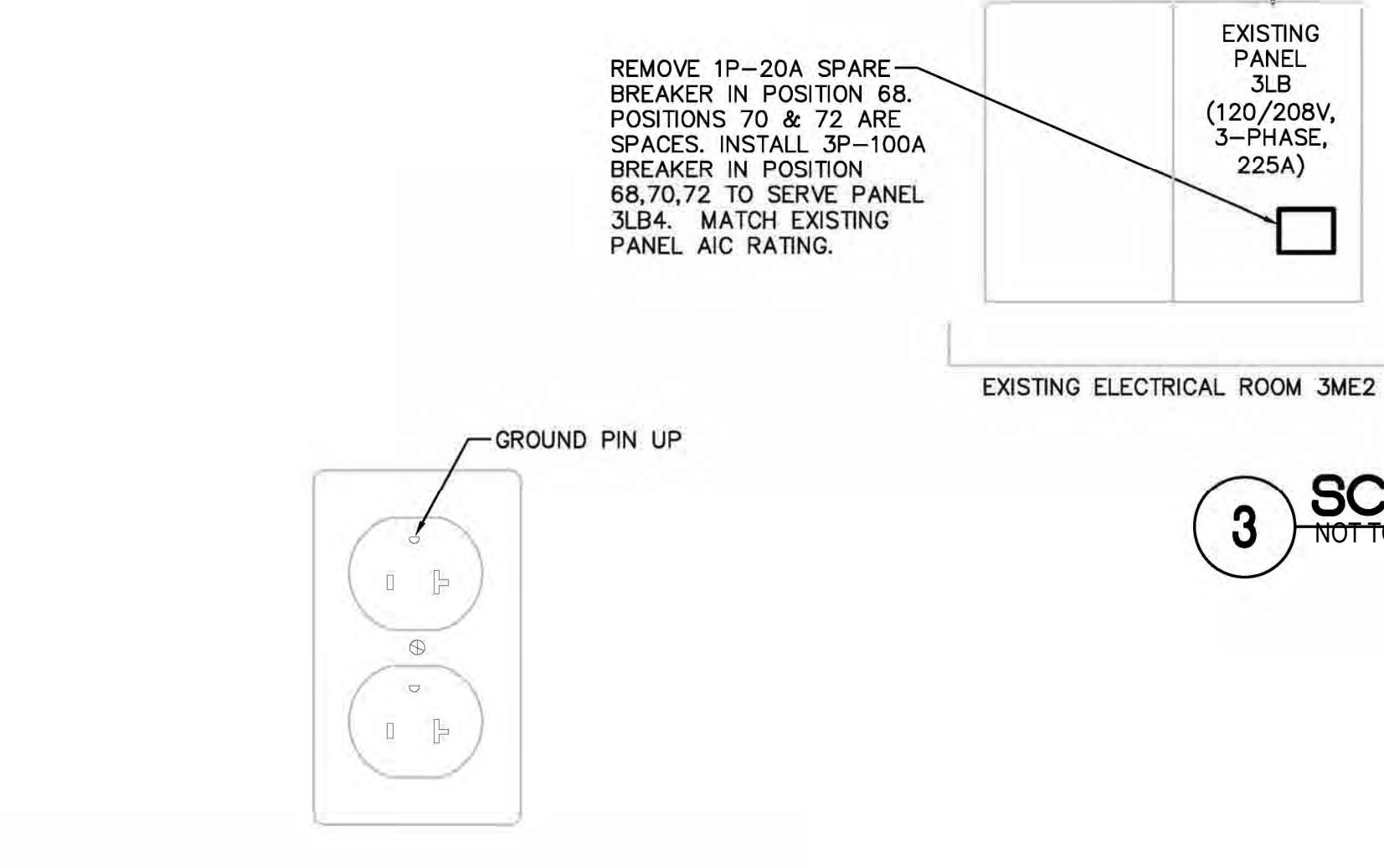
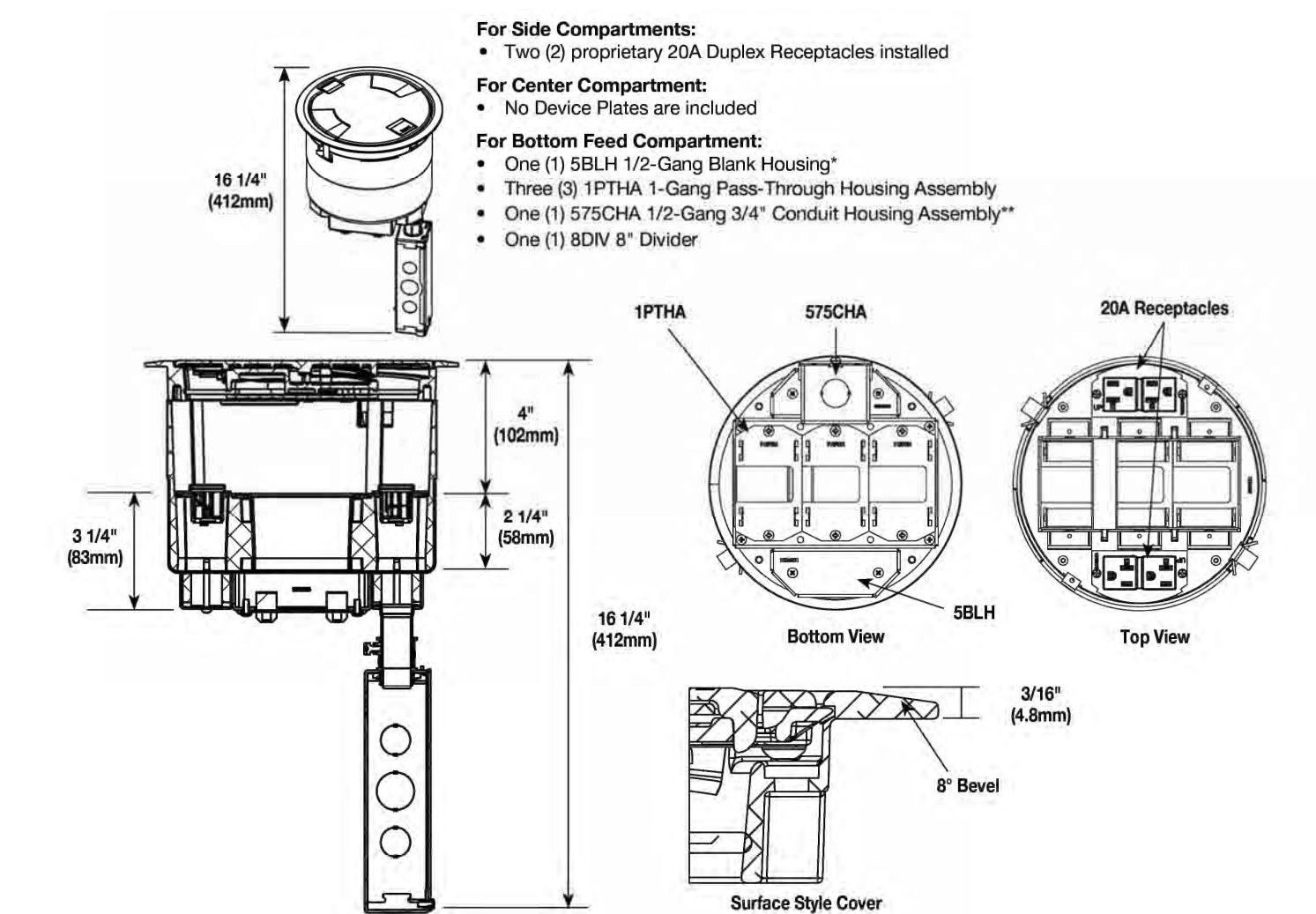
PANEL 3LB4

DESCRIPTION	LOAD (KVA)	BKR AMPS	BKR # POLES	CKT #	CKT # POLES	BKR AMPS	BKR # POLES	LOAD (KVA)	DESCRIPTION
OFFICE 332 RECEPTACLE	0.5	1	20	1	2	1	20	0.5	OFFICE 336 RECEPTACLE
OFFICE 332 RECEPTACLE	0.5	1	20	3	4	1	20	0.5	OFFICE 336 RECEPTACLE
OFFICE 333 RECEPTACLE	0.5	1	20	5	6	1	20	0.5	OFFICE 338 TV
OFFICE 333 RECEPTACLE	0.5	1	20	7	8	1	20	0.7	OFFICE 337 RECEPTACLE
OFFICE 334 RECEPTACLE	0.5	1	20	9	10	1	20	0.5	OFFICE 337 RECEPTACLE
OFFICE 334 RECEPTACLE	0.5	1	20	11	12	1	20	0.5	OFFICE 337 TV
WORKROOM RECEPTACLE	0.7	1	20	13	14	1	20	0.5	OFFICE 338 RECEPTACLE
COPYER/PRINTER	1.0	1	20	15	16	1	20	0.5	OFFICE 338 RECEPTACLE
COUNTERTOP RECEPT	0.4	1	20	17	18	1	20	0.5	OFFICE 338 TV
COUNTERTOP ICE MAKER	1.0	1	20	19	20	1	20	0.5	OFFICE 339 RECEPTACLE
MICROWAVE	1.0	1	20	21	22	1	20	0.5	OFFICE 339 RECEPTACLE
COFFEE MACHINE	1.0	1	20	23	24	1	20	0.5	OFFICE 339 TV
REFRIGERATOR	1.0	1	20	25	26	1	20	0.5	OFFICE 341 RECEPTACLE
FURNITURE FEED	2.0	2	20	27	28	1	20	0.5	OFFICE 341 RECEPTACLE
FURNITURE FEED	-	-	20	29	30	1	20	0.5	OFFICE 341 TV
FURNITURE FEED	2.0	2	20	31	32	1	20	0.5	STORAGE/GENERAL
FURNITURE FEED	2.0	2	20	33	34	1	20	0.5	GENERAL RECEPTACLE
FURNITURE FEED	2.0	2	20	35	36	1	20	0.5	SPARE
FURNITURE FEED	2.0	2	20	37	38	1	20	0.5	SPARE
FURNITURE FEED	2.0	2	20	39	40	1	20	0.5	SPARE
FURNITURE FEED	2.0	2	20	41	42	1	20	0.5	SPARE

CONN. N.E.C. LOAD MULT. (KVA) (KVA)

LIGHTING MOTOR HEATING RECEPTACLE MISCELLANEOUS SPARE TOTAL

80 CONN. LOAD (AMPS)
56 N.E.C. MULT. (AMPS)
10 PERCENT SPARE
1.00 KITCHEN MULTIPLIER
1.00 MISC. MULTIPLIER



FEEDER SCHEDULE

NOMINAL AMPERE RATING	REFERENCE TAG	CONDUIT AND WIRE SIZES
100	100A	4#1, 1#8 G IN 1-1/2" C

PRESTON L'ECUYER
124961
07-03-2024

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E501
ELECTRICAL SCHEDULES AND DETAILS

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Data Device Schedule - SEC	
Description	Data count
CAM	1

LEGEND

NOT IN SCOPE

KEYED NOTES

1 PROVIDE WIRELESS ACCESS POINT AND CEILING GRID MOUNT. VERIFY MODEL INFORMATION WITH OWNER PRIOR TO PURCHASE. COORDINATE ACCESS POINT CONFIGURATION WITH HSC IT PRIOR TO INSTALLATION.

GENERAL NOTES



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ISSUED FOR: HPC
 Date: 07/03/24

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NO.	DESCRIPTION	DATE

T153
 TELECOM REFLECTED
 CEILING PLAN - LEVEL 3
 TreanorHL No. HE0686.2402.00

LEVEL 3 - TELECOM RCP A1

AUDIOVISUAL SYMBOL LEGEND

SYMBOL	TAG	DESCRIPTION	POWER REQUIREMENTS	DATA REQUIREMENTS	CONDUIT REQUIREMENTS	NOTES
	AV2	AUDIOVISUAL WALL PLATE (INPUT/OUTPUT)	CONVENIENCE POWER WITHIN 12"	REFER TO TELECOM PLANS.	2-GANG BOX WITH (2) 1-1/4" CONDUIT STUBBING UP TO ACCESSIBLE CEILING.	INSTALL AT 1' - 6" AFF TO CENTER OF BOX UNLESS OTHERWISE NOTED.
	BP	BUTTON PANEL INTERFACE	N/A	REFER TO TELECOM PLANS.	3-GANG BOX WITH 1-1/4" CONDUIT STUBBING UP TO ACCESSIBLE CEILING.	INSTALL AT 3' - 8" AFF TO CENTER OF BOX UNLESS OTHERWISE NOTED. PROVIDE CLEARANCE ZONE OF 2" ABOVE/BELOW AND 2" LEFT/RIGHT OF 3-GANG BOX.
	XX* FPD	FLAT PANEL DISPLAY	(4) 120VAC/15A OUTLET INSTALLED WITHIN BACK BOX POWER KIT.	REFER TO TELECOM PLANS.	(2) 1-1/4" CONDUIT TERMINATED TO BACK BOX STUBBING UP TO ACCESSIBLE CEILING.	N/A

GENERAL NOTES

- THE ARCHITECTURAL PLANS, ARCHITECTURAL SPECIFICATIONS, GENERAL CONDITIONS, DIVISION SPECIFICATIONS, AND SUPPLEMENTARY DOCUMENTATION SHALL APPLY TO THE AUDIOVISUAL CONTRACTOR - POTENTIALLY REQUIRING COORDINATION WITH THE ARCHITECT, GENERAL CONTRACTOR AND/OR OTHER TRADES.
- AUDIOVISUAL CONTRACTOR WILL PROVIDE ALL MATERIALS (EQUIPMENT, ACCESSORIES, TOOLS, ETC.), TRANSPORTATION, AND LABOR TO INSTALL A COMPLETE AUDIOVISUAL SYSTEM AS DESCRIBED IN THE ASSOCIATED DIVISION 27 40 00 SPECIFICATIONS AND FOLLOWING AUDIOVISUAL DRAWING SET.
- EXAMINATION OF THE SITE (AND IT'S CONDITIONS) ALONG WITH THE CONTRACT DOCUMENTS WILL BE REQUIRED TO DETERMINE THE TOTAL AMOUNT OF MATERIALS, TRANSPORTATION, AND LABOR REQUIRED TO DELIVER A COMPLETE AUDIOVISUAL SYSTEM.
- AUDIOVISUAL CONTRACTOR WILL NOTE AND REPORT TO THE GENERAL CONTRACTOR ANY WORK PERFORMED BY THE ELECTRICAL CONTRACTOR (OR ANY OTHER TRADE) THAT IS INTENDED TO SUPPORT THE AUDIOVISUAL SYSTEMS BUT DOES NOT COMPLY WITH DIVISION SPECIFICATIONS AND DESIGN DRAWINGS.
- AUDIOVISUAL CONTRACTOR WILL TAKE REASONABLE (AND NECESSARY) STEPS TO PROTECT AUDIOVISUAL SYSTEM COMPONENTS ON SITE FROM DAMAGE (BY THEMSELVES OR OTHERS) BEFORE AND DURING THE PROJECT'S CONSTRUCTION PHASE. ONLY AFTER ACCEPTANCE AND FINAL TURN-OVER OF THE AUDIOVISUAL SYSTEM BY THE OWNER/GENERAL CONTRACTOR WILL THE AUDIOVISUAL CONTRACTOR BE RELIEVED OF RESPONSIBILITY.
- AUDIOVISUAL CONTRACTOR WILL OBTAIN WRITTEN PERMISSION FROM THE OWNER/GENERAL CONTRACTOR PRIOR TO EXECUTING ANY WORK THAT REQUIRES CUTTING INTO OR THROUGH ANY PART OF THE BUILDING STRUCTURE INCLUDING (BUT NOT LIMITED TO) GIRDERS, BEAMS, CONCRETE FLOORS, TILE FLOORS, PARTITIONS AND CEILINGS.
- AUDIOVISUAL CABLING SHALL BE ROUTED TO THE ASSOCIATED AUDIOVISUAL OUTLET VIA CONDUIT, CABLE TRAY AND/OR J-HOOKS.
- AUDIOVISUAL CONTRACTOR WILL PROVIDE APPROPRIATELY SIZED MECHANICAL SLEEVES (STI EZ-PATH OR HILTI SPEED SLEEVE) THAT MATCH THE RATING OF THE WALL INTENDED FOR PENETRATION AND COORDINATE WITH THE GENERAL CONTRACTOR FOR ANY FRAMING OR IN-WALL PREPARATIONS THAT ARE REQUIRED TO SUPPORT THE PENETRATION.
- CONTRACT DOCUMENTS, DIVISION SPECIFICATIONS, AND DESIGN DRAWINGS WILL BE REGARDED COLLECTIVELY AND IN WHOLE FOR THE PURPOSE OF BID SUBMISSION, CONTRACT AWARD, INSTALLATION, AND TURN-OVER OF THIS PROJECT.
- AUDIOVISUAL CONTRACTOR WILL REFER TO AND ADHERE TO DIVISION SPECIFICATIONS FOR BID RESPONSE INFORMATION, PRICING, AND FORMATTING REQUIREMENTS.
- INFORMATION RELATED TO CONTRACT DOCUMENTS, DIVISION SPECIFICATIONS, DESIGN DRAWINGS, AND/OR FIELD CONDITIONS THAT IS BELIEVED TO BE MISSING OR IN CONFLICT WILL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER/GENERAL CONTRACTOR AND OFFICIALLY SUBMITTED VIA A REQUEST FOR INFORMATION OR REQUEST FOR CLARIFICATION FORM.

COORDINATION NOTES

- AUDIOVISUAL DRAWINGS CONTAIN INFORMATION RELATED TO MULTIPLE TRADES (FRAMING, ELECTRICAL, ETC.) AND MAY REQUIRE COORDINATION BETWEEN THE AUDIOVISUAL CONTRACTOR, GENERAL CONTRACTOR, AND THE RELATED TRADE.
- AUDIOVISUAL CONTRACTOR SHALL COORDINATE FINISH SELECTIONS (FOR AUDIOVISUAL DEVICES WHICH OFFER MULTIPLE OR CUSTOM OPTIONS) WITH THE ARCHITECT.
- AUDIOVISUAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING FINAL INSTALLTION LOCATION(S) FOR ALL AUDIOVISUAL SYSTEM DEVICES THAT ARE REPRESENTED IN THE DESIGN DRAWING (AND SCHEMATICS) WITH ASSOCIATED AND EFFECTED TRADES INCLUDING (BUT NOT LIMITED TO) MECHANICAL, ELECTRICAL AND PLUMBING.
- AUDIOVISUAL CONTRACTOR WILL INSTALL CEILING MOUNTED, AUDIOVISUAL SYSTEM DEVICES ON CENTER OF THE APPROPRIATE CEILING TILE LOCATION.
- AUDIOVISUAL CONTRACTOR WILL COORDINATE WITH THE OWNER/GENERAL CONTRACTOR ON FINAL INSTALLATION LOCATION(S) FOR AUDIOVISUAL SYSTEM COMPONENTS INCLUDING (BUT NOT LIMITED TO) CONTROL PANELS, ROOM SCHEDULERS, AND WALL PLATES.
- WHERE WALL MOUNTED DISPLAYS ARE SHOWN IN THE DESIGN DRAWINGS AS MOUNTED ON OPPOSITE SIDES OF A SINGLE WALL, THE GENERAL CONTRACTOR WILL PROVIDE FRAMING FOR EACH DISPLAY'S ASSOCIATED IN-WALL STORAGE BOXES TO FIT BACK-TO-BACK WITHIN THAT SINGLE WALL.
- AUDIOVISUAL CONTRACTOR WILL REFER TO THE AUDIOVISUAL RESPONSIBILITY MATRIX FOR CLARIFICATION ON WHICH PARTS OF THE AUDIOVISUAL PROJECT SCOPE WILL BE HANDLED BY THE GENERAL CONTRACTOR, AUDIOVISUAL CONTRACTOR, AND OWNER. SCOPE ITEMS DESCRIBED AS THE GENERAL CONTRACTOR'S OR OWNER'S RESPONSIBILITY MAY STILL REQUIRE COORDINATION FROM THE AUDIOVISUAL CONTRACTOR.
- DATA AND FIBER OPTIC CABLING TO THE OWNER'S NETWORK WILL BE INSTALLED, TERMINATED, TESTED, AND DOCUMENTED BY THE TELECOMMUNICATIONS CONTRACTOR.
- AUDIOVISUAL CABLES SHALL NOT BE PAINTED.
- AUDIOVISUAL CABLING PLACED IN CABLE TRAY WILL BE PLACED BY THE TELECOMMUNICATIONS CONTRACTOR.
- GENERAL CONTRACTOR WILL PROVIDE 3/4" PLYWOOD BLACKING (BEHIND THE WALL FINISH AND AT THE PROPOSED INSTALLATION LOCATION) FOR ALL WALL MOUNTED DISPLAYS.

ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR WILL REVIEW ALL DOCUMENTS RELATED TO THE AUDIOVISUAL SYSTEM (INCLUDING BUT NOT LIMITED TO DIVISION 27 SPECIFICATIONS AND DESIGN DRAWINGS) TO EXECUTE THE PROJECT SCOPE OUTLINED THEREIN AND PROVIDE A COMPLETE (AND FUNCTIONAL) AUDIOVISUAL SYSTEM.
- ELECTRICAL CONTRACTOR WILL PROVIDE ALL MATERIALS (EQUIPMENT, ACCESSORIES, TOOLS, ETC.), TRANSPORTATION, AND LABOR REQUIRED TO PROVIDE COMPLETE (AND FUNCTIONAL) COMMUNICATIONS CABLING PATHWAYS, ELECTRICAL POWER DISTRIBUTION AND GROUNDING SYSTEM AS SET FORTH IN THE COMMUNICATIONS CABLING, AUDIOVISUAL SYSTEM, AND ELECTRICAL DIVISION SPECIFICATIONS AND DESIGN DRAWINGS.
- ALL ELECTRICAL OUTLETS FOR AUDIOVISUAL DEVICES WILL BE ON THE SAME PHASE AND WILL NOT SHARE CIRCUITS WITH MOTORS.
- ALL AUDIOVISUAL DEVICES LOCATED IN OPEN OR INACCESSIBLE CEILINGS WILL REQUIRE CONDUIT BACK TO THE NEAREST ACCESSIBLE CEILING OR CORRIDOR SPACE.
- ALL AUDIOVISUAL WALL PLATES, IN-WALL STORAGE BOXES, AND PLENUM CEILING BOXES WILL REQUIRE A CONDUIT ROUT BACK TO THE NEAREST ACCESSIBLE CEILING OR CORRIDOR SPACE.
- ALL AUDIOVISUAL FLOOR BOXES AND POKE-THRU SHALL WILL CONDUIT ROUTED UP TO THE LEVEL BEING SERVED AT THE NEAREST ACCESSIBLE CEILING OR CORRIDOR SPACE.

AUDIOVISUAL RESPONSIBILITY MATRIX

ITEM	GC	AV CONTRACTOR	OWNER
3/4" PLYWOOD BLOCKING (FOR WALL MOUNTED AV DEVICES)	X		
NETWORK (LAN) CABLING	X		
NETWORK (LAN) SWITCHES & PATCH PANELS	X		
AUDIOVISUAL NETWORK (AVN) CABLING		X	
AUDIOVISUAL NETWORK (AVN) SWITCHES & PATCH PANELS		X	
CONDUITS	X		
ELECTRICAL & JUNCTION BOXES	X		
POWER > 24VDC	X		
FLOOR BOXES & POKE THRU	X		
OVERFLOOR RACEWAY & CABLE PATHWAY SYSTEMS	X		
ACCESS PANELS	X		
FURNITURE (CONFERENCE TABLES, STUDENT DESKS, CREDENZAS, ETC.)			X
INSTRUCTIONAL/TEACHING LECTERNS & PODIUMS		X	
DISPLAY BACK BOXES (PROCUREMENT)		X	
DISPLAY BACK BOXES (INSTALLATION)	X		
CRESTRON/EXTRON CABLE CUBBY SYSTEMS (PROCUREMENT & INSTALLATION)		X	
FURNITURE MODIFICATION & MILLWORK	X		
COMPUTERS, DESKTOP MONITORS, KEYBOARDS, MICE, & ACCESSORIES			X
VIDEO PROJECTORS & MOUNTING SYSTEMS		X	
PROJECTION SCREENS & CONTROL SWITCHES		X	
PLENUM CEILING BOXES & SCISSOR LIFTS		X	
DIGITAL SIGNAGE/WAYFINDING MEDIA PLAYERS			X
DIGITAL SIGNAGE/WAYFINDING CONTENT & SCHEDULING			X
DIGITAL SIGNAGE/WAYFINDING DISPLAYS & MOUNTS		X	
FLAT PANEL DISPLAYS & MOUNTS/CARTS		X	
DIRECT VIEW LED & LCD VIDEO WALL SYSTEMS & MOUNTS		X	
LOUDSPEAKERS (8Ω/70V/IP) & AUDIO AMPLIFIERS		X	
AUDIO TRANSMITTERS, ADAPTERS, & CONVERTERS		X	
AUDIO SYSTEM SIGNAL PROCESSORS & EXPANDERS		X	
CONTROL SYSTEM PROCESSORS & EXPANDERS		X	
CONFERENCING CAMERAS, BARS, & MOUNTING SYSTEMS		X	
DOCUMENT CAMERAS & VISUALIZERS		X	
HDMI, USB, & PRESENTATION SWITCHERS		X	
HDMI, USB & CONTROL SIGNAL EXTENDERS/CONVERTERS		X	
AV-OVER-IP ENCODERS, DECODERS, & SYSTEM MANAGERS		X	
WIRELESS PRESENTATION GATEWAYS & ACCESSORIES		X	
ACTIVE LEARNING GATEWAYS & LICENSES		X	
MICROPHONE & ANTENNA SYSTEMS (WIRED/WIRELESS)		X	
ASSISTIVE LISTENING & ANTENNA SYSTEMS (IR/RF)		X	
TOUCH PANELS, BUTTON PANELS, & ROOM SCHEDULERS		X	
AV WALL PLATES & KEYSTONES		X	
AV EQUIPMENT RACKS (FLOOR, WALL, CREDENZA, & LECTERN)		X	
AV EQUIPMENT RACK ACCESSORIES (SHELVES, LACING BARS, SCREWS, ETC.)		X	
AV EQUIPMENT RACK HORIZONTAL & VERTICAL POWER DISTRIBUTION UNITS		X	
AV EQUIPMENT RACK UNINTERRUPTABLE POWER SUPPLIES			X

AUDIOVISUAL SHEET LIST

TA000	AUDIOVISUAL INDEX
TA103	AUDIOVISUAL FLOOR PLAN - LEVEL 3
TA153	AUDIOVISUAL REFLECTED CEILING PLAN - LEVEL 3
TA501	AUDIOVISUAL SCHEMATICS
TA701	AUDIOVISUAL ELEVATIONS



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TA000

AUDIOVISUAL INDEX

TreanorHL No. HE06862402-00

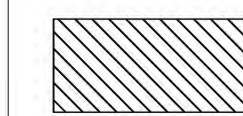
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AUDIOVISUAL SCHEDULE

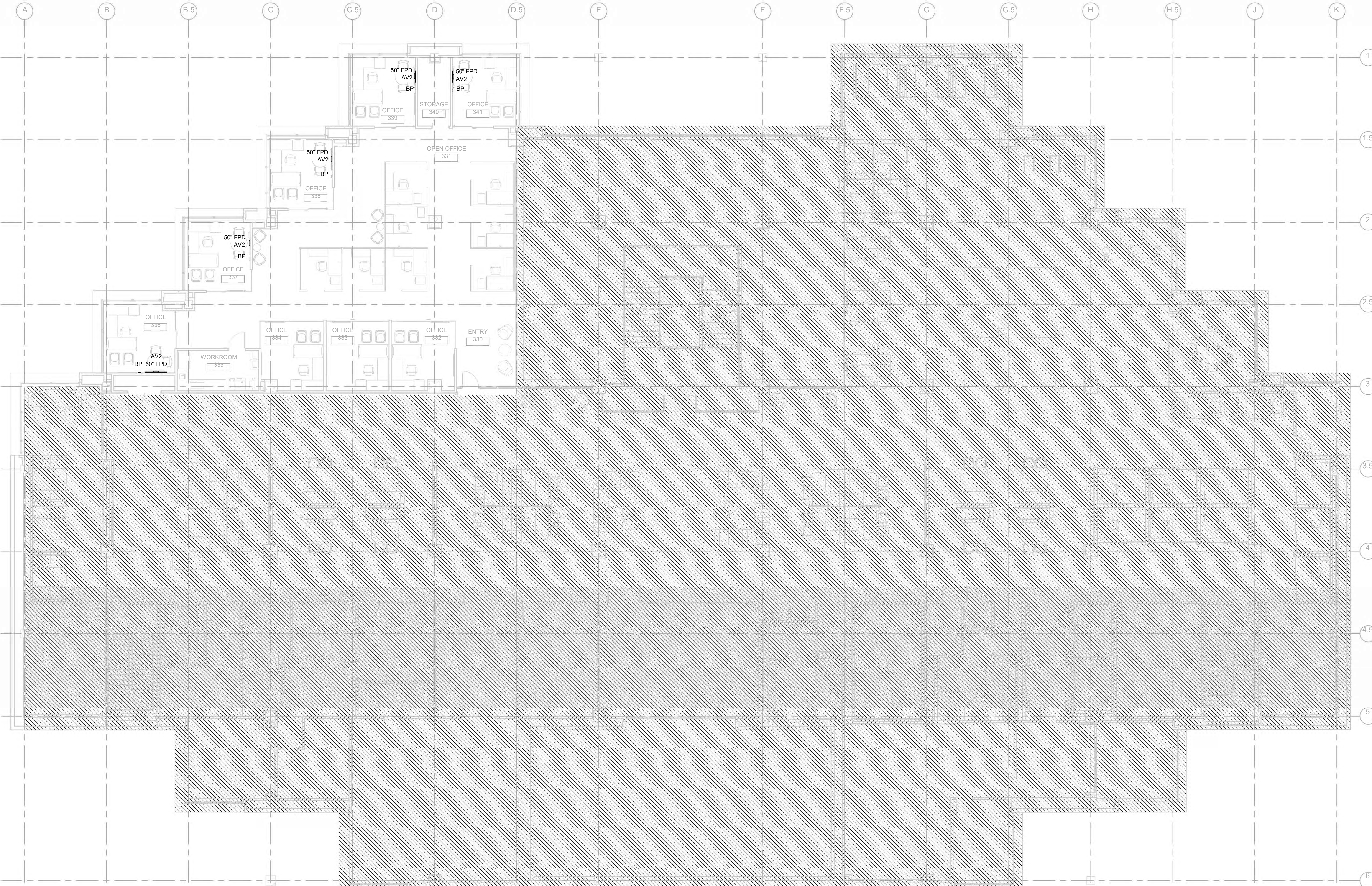
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337	OFFICE	TA501/A1	TA701/A1
338	OFFICE	TA501/A1	TA701/A1
339	OFFICE	TA501/A1	TA701/A1
341	OFFICE	TA501/A1	TA701/A1

LEGEND

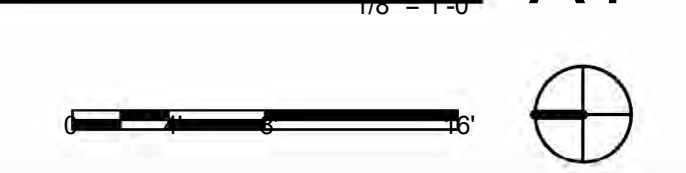
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KEYED NOTES

GENERAL NOTES



LEVEL 3 - AUDIOVISUAL A1



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TA103

AUDIOVISUAL FLOOR PLAN - LEVEL 3

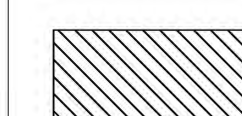
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LEGEND

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KEYED NOTES

GENERAL NOTES



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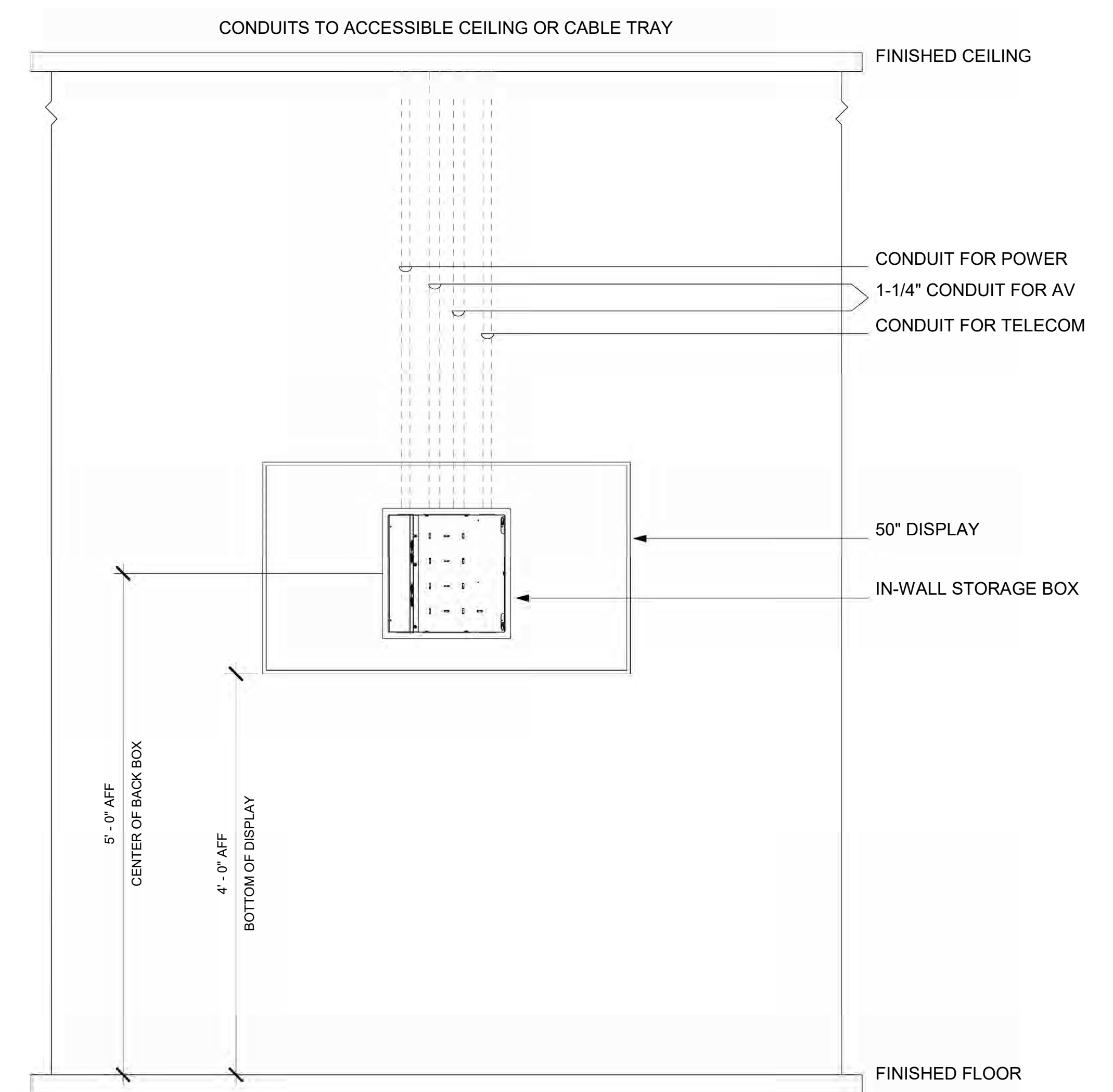
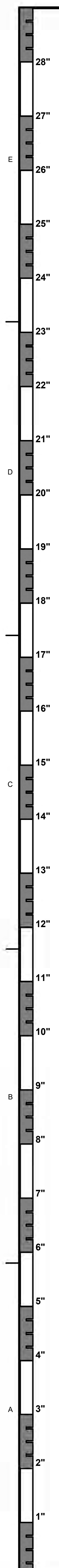
TA153

AUDIOVISUAL REFLECTED CEILING PLAN - LEVEL 3

Revision No. HE0686.2402.00

LEVEL 3 - AUDIOVISUAL RCP A1
1/8" = 1'-0"





50" FPD A1



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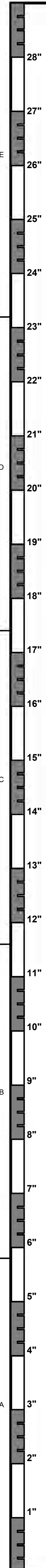
TA701

AUDIOVISUAL ELEVATIONS

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GENERAL NOTES

- THE GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, SPECIFICATIONS AND REQUIREMENTS OF OTHER DIVISIONS REQUIRE COORDINATION AND SHALL APPLY TO THE DIVISION 28 CONTRACTOR. ANY CONTRADICTING INFORMATION NEEDING CLARIFICATION SHALL BE SUBMITTED VIA A "REQUEST FOR INFORMATION" (RFI) TO THE GC.
- PROVIDE ALL MATERIALS, COMPONENTS, TOOLS AND LABOR TO INSTALL A COMPLETE VIDEO SURVEILLANCE AND ACCESS CONTROL SYSTEM AS SHOWN IN THE SAFETY AND SECURITY SYSTEM DIVISIONS 27/28 SPECIFICATIONS, "TY" DRAWINGS AND "E" DRAWINGS.
- CAREFULLY EXAMINE THE SITE CONDITIONS TO DETERMINE THE EXTENT OF WORK AND CONDITIONS UNDER WHICH IT WILL NEED TO BE DONE.
- REVIEW AND VERIFY CONTRACT DOCUMENTS IN RELATION TO FIELD CONDITIONS TO VERIFY ACCURACY, CONFIRMING WITH OWNER, OR THEIR DESIGNATED REPRESENTATIVE, THAT RELATED WORK HAS BEEN COMPLETED PRIOR TO PROCEEDING WITH INSTALLATION.
- DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER, OR THEIR DESIGNATED REPRESENTATIVE, FOR CLARIFICATION.
- REFER TO SECURITY CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS AS A WHOLE, IN THE BIDDING AND INSTALLATION OF THIS PROJECT.
- NOTE AND REPORT TO THE GC, ANY WORK PERFORMED BY OTHERS, INTENDED FOR THE SECURITY SYSTEM, IF IT DOES NOT COMPLY WITH ELECTRONIC SAFETY AND SECURITY SYSTEM SPECIFICATIONS AND DRAWINGS.
- TAKE NECESSARY MEANS TO PROTECT SECURITY SYSTEM COMPONENTS FROM MECHANICAL DAMAGE, DUST AND DIRT BEFORE, DURING AND AFTER CONSTRUCTION.
- ALL COMPONENTS AND DEVICES SHOWN ON THESE DRAWINGS ARE FOR APPROXIMATE LOCATION AND POSITIONING ONLY. VERIFY EXACT LOCATIONS WITH THE OWNER OR GC PRIOR TO INSTALLATION.
- REFERENCE DIVISION 28 SPECIFICATIONS FOR ITEMIZED PRICING REQUIREMENTS.

SECURITY PATHWAYS

- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUITS, PULL STRINGS, CORES AND JUNCTION BOXES AS REQUIRED ON THE "TY" DRAWINGS.
- CONDUIT RUNS SHALL NOT CONTAIN MORE THAN TWO (2) SWEEPING 90 DEGREE BENDS AND NOT EXCEED 100 FEET. IF THESE CONDITIONS CANNOT BE MET, A J-BOX MUST BE PLACED IN THE RUN WITH THE ABILITY TO ACCESS THROUGH THE CEILING.
- PROPERLY FIRE STOP AND LABELED ALL SECURITY PATHWAY CONDUITS AND UNUSED "SECURITY INTENDED USE CONDUITS" PRIOR TO SUBSTANTIAL COMPLETION.
- CONDUIT SIZES INDICATED ON THE DRAWINGS AND HOME RUN SIZES SHOWN ON DETAIL SHEETS ARE TO BE CONSIDERED THE MINIMUM SIZE TO BE INSTALLED. PROVIDE LARGER OR ADDITIONAL CONDUIT IF REQUIRED. CONDUIT SIZES INDICATE DEDICATED HOME RUNS BUT MAY BE COMBINED WITH OTHER LOCATIONS BY SYSTEM TYPE (VIDEO SURVEILLANCE, INTERCOM AND ACCESS CONTROL) AS LONG AS NEC MAXIMUM FILL REQUIREMENTS ARE MAINTAINED.
- FURNISH AND INSTALL CABLE SUPPORT, CABLE MANAGEMENT AND ASSOCIATED CEILING MOUNTING HARDWARE WHERE REQUIRED FOR CABLING INSTALLED BY SECURITY CONTRACTOR.
- ALL DOOR PREP TO INCLUDE CONDUIT, PULL STRINGS, PROTECTIVE BUSHINGS AND JUNCTION BOXES AS SHOWN ON THE "TY" DRAWINGS PRIOR TO THE SECURITY INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL READ, IN THEIR ENTIRETY, ALL SECTIONS OF THE ELECTRONIC SAFETY AND SECURITY SYSTEM DOCUMENTS AND APPLY THEM AS APPROPRIATE FOR WORK IN THIS SECTION. REFERENCE DIVISION 28 SPECIFICATIONS AND "TY" DRAWINGS
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, COMPONENTS, TOOLS AND LABOR REQUIRED TO COMPLETE SECURITY CABLING PATHWAY, ELECTRICAL POWER DISTRIBUTION AND GROUNDING SYSTEM AS SET FORTH IN THE ELECTRONIC SAFETY AND SECURITY SYSTEM DOCUMENTS AND THE ELECTRICAL DOCUMENTS, SPECIFICATIONS AND DRAWINGS.

COMMUNICATIONS ROOMS

- RACK ELEVATIONS AND NETWORK EQUIPMENT ARE SHOWN FOR COORDINATION AND INFORMATIONAL PURPOSES ONLY.
- FURNISH AND INSTALL CABLE SUPPORT, CABLE MANAGEMENT AND ASSOCIATED HARDWARE WITHIN TELECOMMUNICATIONS ROOMS.

ELECTRICAL

- FOR SPECIFIC POWER AND RECEPTACLE REQUIREMENTS, REFERENCE ELECTRICAL DOCUMENTS AND VERIFY WITH SECURITY DOCUMENTS. REPORT ANY DISCREPANCIES TO THE GC PRIOR TO PURCHASE OR INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL INSTALL NORMAL AND GENERATOR BACK-UP POWER AS REQUIRED BY THE SECURITY SYSTEM AND COORDINATED BY THE SECURITY CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL PROVIDE 120V AC FOR ELECTRIC LOCK POWER SUPPLIES, SECURITY DEVICE POWER SUPPLIES AND CAMERA POWER SUPPLIES AS REQUIRED. SECURITY AND DOOR CONTRACTORS SHALL IDENTIFY LOCATIONS ON SUBMITTALS.

GROUNDING & BONDING

- ADHERE TO ALL GROUNDING AND BONDING REQUIREMENTS SET FORTH IN THE ANSI-J-STD-607-B COMMERCIAL GROUNDING AND BONDING STANDARDS.
- PREPARE SURFACES TO PROVIDE A PROPER PATH TO GROUND. ANY SURFACE TO BE GROUNDED MUST BE FREE OF PAINT OR OTHER COATING THAT MIGHT PREVENT AN EFFECTIVE GROUND. PAINT SHOULD BE SCRAPED AWAY UNTIL METALLIC SURFACE HAS BEEN EXPOSED BEFORE THE ATTACHMENT OF GROUNDING OR BONDING CONNECTOR.

VIDEO SURVEILLANCE

- PROVIDE ALL REQUIRED DEVICES, MOUNTS, HARDWARE AND PERIPHERAL COMPONENTS AS SHOWN ON "TY" DRAWINGS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- PROVIDE CAMERAS AT THE HEIGHT ABOVE GRADE OR ABOVE FINISHED FLOOR (AFF) AS INDICATED ON THE "TY" PLANS.
- COORDINATE LOCATION OF CAMERAS WITH ALL CEILING MOUNTED ARCHITECTURAL AND MEP EQUIPMENT.
- LOCATE CAMERAS AND CONFIGURE LENS SETTINGS TO OPTIMIZE CAMERA VIEWS.
- VERIFY THERE ARE NO PHYSICAL OBSTRUCTIONS TO THE INTENDED CAMERA VIEWS PRIOR TO INSTALLATION. SHOULD ANY OBSTRUCTIONS BE PRESENT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER AND ADJUST THE CAMERA POSITIONS AS NEEDED.
- COORDINATE WITH THE COMMUNICATIONS CONTRACTOR WHO IS RESPONSIBLE FOR THE INSTALLATION OF ALL CABLING FOR IP CAMERAS.
- PROVIDE SECURITY CAMERA POWER INJECTOR AS REQUIRED FOR PAN/TILT/ZOOM (PTZ) CAMERAS TO CONTROL PTZ FUNCTIONS. CONTRACTOR IS RESPONSIBLE FOR CAMERA LICENSES, SOFTWARE REVISIONS, NETWORK VIDEO RECORDERS (NVR) AND CAMERA FIELD OF VIEWS AS WELL AS COORDINATION AND TRAINING WITH THE OWNER TO LEARN THE VIEWING AND RECORDING SYSTEM.
- PROVIDE NETWORK STORAGE CALCULATIONS AS PART OF THE SUBMITTAL PACKAGES.
- CONFIGURE MOTION DETECTION WINDOWS WITH THE INVOLVEMENT OF THE OWNER IN ORDER TO MINIMIZE FALSE MOTION EVENTS.

ACCESS CONTROL

- DOOR CONTRACTOR SHALL PROVIDE ALL ELECTRIC LOCKS AS SHOWN ON "TY" DRAWINGS AND COMPLY WITH BUILDING HARDWARE SCHEDULE.
- DOOR CONTRACTOR PROVIDE EXTERIOR KEY-BYPASS OPTION ON ALL ELECTRIC LOCK DOORS TO ALLOW MANUAL ENTRY. LOCKS TO BE THE SAME MANUFACTURER AS REQUIRED BY BUILDING HARDWARE SCHEDULE.
- DOOR CONTRACTOR SHALL PROVIDE ALL ELECTRICAL TRANSFER HINGES AS SHOWN ON "TY" DRAWINGS AND COMPLY WITH BUILDING HARDWARE SCHEDULE.
- FIRE ALARM CONTRACTOR SHALL PROVIDE FIRE ALARM SIGNAL INTERFACES AS REQUIRED AND COORDINATED BY THE SECURITY CONTRACTOR FOR RELEASE OF SECURITY CONTROLLED DOORS PER CURRENT LIFE SAFETY CODES.
- HOME-RUN ALL SECURITY COMPOSITE CABLING TO DESIGNATED SECURITY PANEL PER FLOOR AND LEAVE 24-INCH SERVICE LOOP ABOVE DOOR AND ABOVE THE DESIGNATED SECURITY PANEL.
- ALL DOORS ARE SET TO FAIL SECURE WITH PUSH BAR OR HANDLE ACTIVATED "REQUEST TO EXIT" EGRESS AND KEY LOCK INGRESS.
- SIZE DOOR CONTROLLERS, ENCLOSURES, BOARDS AND POWER SUPPLIES TO ALLOW FOR A MINIMUM OF 20 PERCENT FUTURE GROWTH.
- PROVIDE THE FOLLOWING:
 - CARD READERS
 - SUPERVISED RESISTORS
 - DOOR POSITION SWITCH
 - BOARD ENCLOSURE
 - CONTROLLER
 - EXPANSION BOARDS
 - POWER SUPPLIES
 - INTERCOM - MASTER STATION AND REMOTE STATION
 - LOW VOLTAGE CABLE
 - PROJECT MANAGEMENT AND CUSTOMER TRAINING.
- COORDINATE WITH OWNER TO ENSURE SUCCESSFUL TIE INTO OWNERS ACCESS CONTROL SYSTEM.

SECURITY SYMBOL LEGEND

	FIXED MEGAPIXEL DOME CAMERA
	CARD READER - LOCATIONS INCLUDE READER, DOOR CONTACT, REX, AND POWER FOR ELECTRIC STRIKE. ELECTRIC STRIKE PROVIDED BY DOOR CONTRACTOR.

SECURITY RESPONSIBILITY MATRIX

ITEM	GC	SEC	DOOR HARDWARE	OWNER
NETWORK CABLING TO IDF	X			
CONDUITS	X			
J-BOXES	X			
POWER-24VDC	X			
FLOOR BOXES/POKE-THRU'S	X			
DISPLAY BACK BOXES/BACKING	X			
ACCESS PANELS	X			
SECURITY CABLING (NON IP)		X		
SECURITY PANELS		X		
CAMERAS		X		
CARD READERS		X		
DOOR CONTACTS		X		
DOOR LOCKS AND HARDWARE			X	
REX (INTEGRATED)			X	
REX (PIR)		X		
LOW VOLTAGE POWER DISTRIBUTION PANELS AND CABLING		X		
NETWORK VIDEO RECORDERS		X		
SECURITY SYSTEM LICENSES		X		
PROPRIETARY REMOTE LOCKDOWN PANELS				X
COMPUTERS				X

SECURITY ABBREVIATIONS

ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
APS	ACCESS CONTROL POWER SUPPLY
AWG	AMERICAN WIRE GAUGE
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CH	CHANNEL
CON	CONDUCTOR
CPS	CAMERA POWER SUPPLY
CPU	CENTRAL PROCESSING UNIT
CRT	CATHODE RAY TUBE
DB	DECIBEL
DGP	DATA GATHERING PANEL
DVR	DIGITAL VIDEO RECORDER
EL	ELECTRONIC LOCKSET
ESS	ELECTRONIC SAFETY & SECURITY
FC	FOOT CANDLE
FOV	FIELD OF VIEW
FPS	FRAMES PER SECONDS
FSD	FLAT SCREEN DISPLAY
GC	GENERAL CONTRACTOR
IDF	INTERMEDIATE DISTRIBUTION FRAME
IP	INTERNET PROTOCOL
IR	INFRARED
JPEG	JOINT PHOTOGRAPHIC EXPERTS GROUP
LPS	LOCK POWER SUPPLY
MDF	MAIN DISTRIBUTION FRAME
MPEG	MOTION PICTURE EXPERTS GROUP
NTSC	NATIONAL TELEVISION STANDARDS COMMITTEE
NVR	NETWORK VIDEO RECORDER
PIR	PASSIVE INFRARED
POE	POWER OVER ETHERNET
PP	PATCH PANEL
PPF	PIXELS PER FOOT
PTZ	PAN-TILT-ZOOM
REX	REQUEST TO EXIT
SMS	SOFTWARE MANAGEMENT SYSTEM
TP	TERMINATION POINT
TR	TELECOM ROOM
TS	TRADE SIZE
TY	SECURITY DISCIPLINE DESIGNATOR
UM	MICRON
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
VMS	VIDEO MANAGEMENT SOFTWARE
WDR	WIDE DYNAMIC RANGE

SECURITY SHEET LIST

TY000	SECURITY INDEX
TY103	SECURITY FLOOR PLAN - LEVEL 3
TY153	SECURITY REFLECTED CEILING PLAN - LEVEL 3
TY501	SECURITY DETAILS
TY-C501	SECURITY CAMERA DETAILS
TY-C502	SECURITY CAMERA DETAILS
TY-C503	SECURITY CAMERA DETAILS
TY-C504	SECURITY CAMERA DETAILS
TY-C505	SECURITY CAMERA DETAILS
TY-D501	SECURITY DOOR DETAILS
TY-D502	SECURITY DOOR DETAILS
TY-D503	SECURITY DOOR DETAILS
TY-D504	SECURITY DOOR DETAILS
TY-D505	SECURITY DOOR DETAILS
TY-D506	SECURITY DOOR DETAILS
TY-D507	SECURITY DOOR DETAILS
TY-D508	SECURITY DOOR DETAILS
TY-SE01	SECURITY ACCESS CONTROL DETAILS
TY-SE02	SECURITY CAMERA DETAILS UH SPECIFIC



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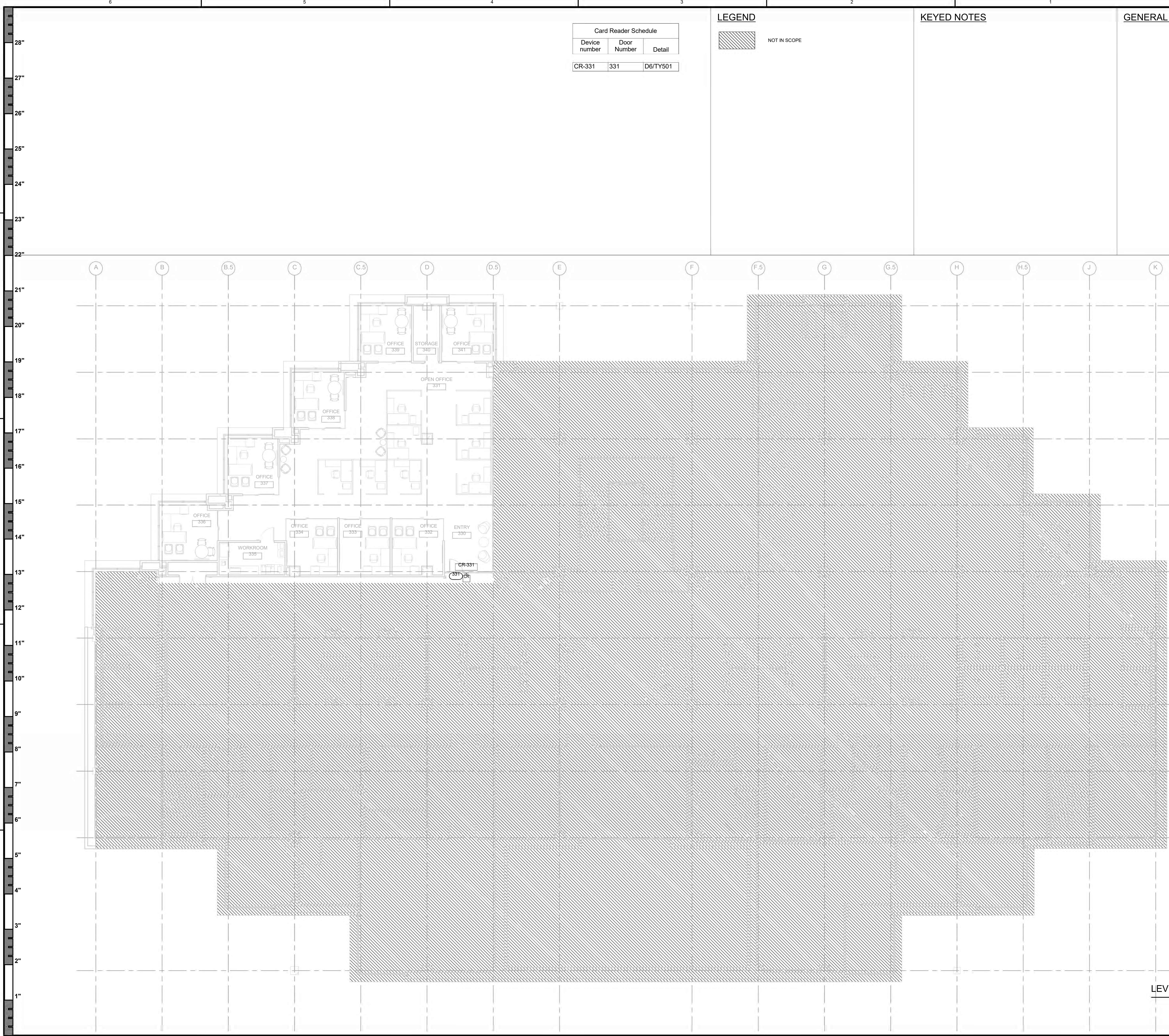
REVISIONS		
NO.	DESCRIPTION	DATE

TY000

SECURITY INDEX

Revision No. HE06982.2402.00

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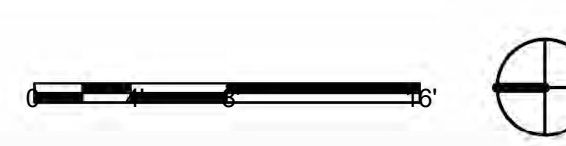
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KEYED NOTES

GENERAL NOTES

LEVEL 3 - SECURITY PLAN A1



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TY103

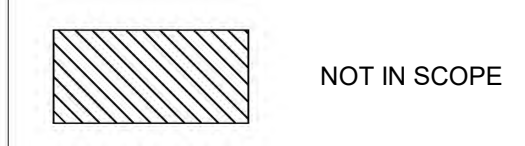
SECURITY FLOOR PLAN - LEVEL 3

Project No. HE0686.2402.00

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Camera Schedule			
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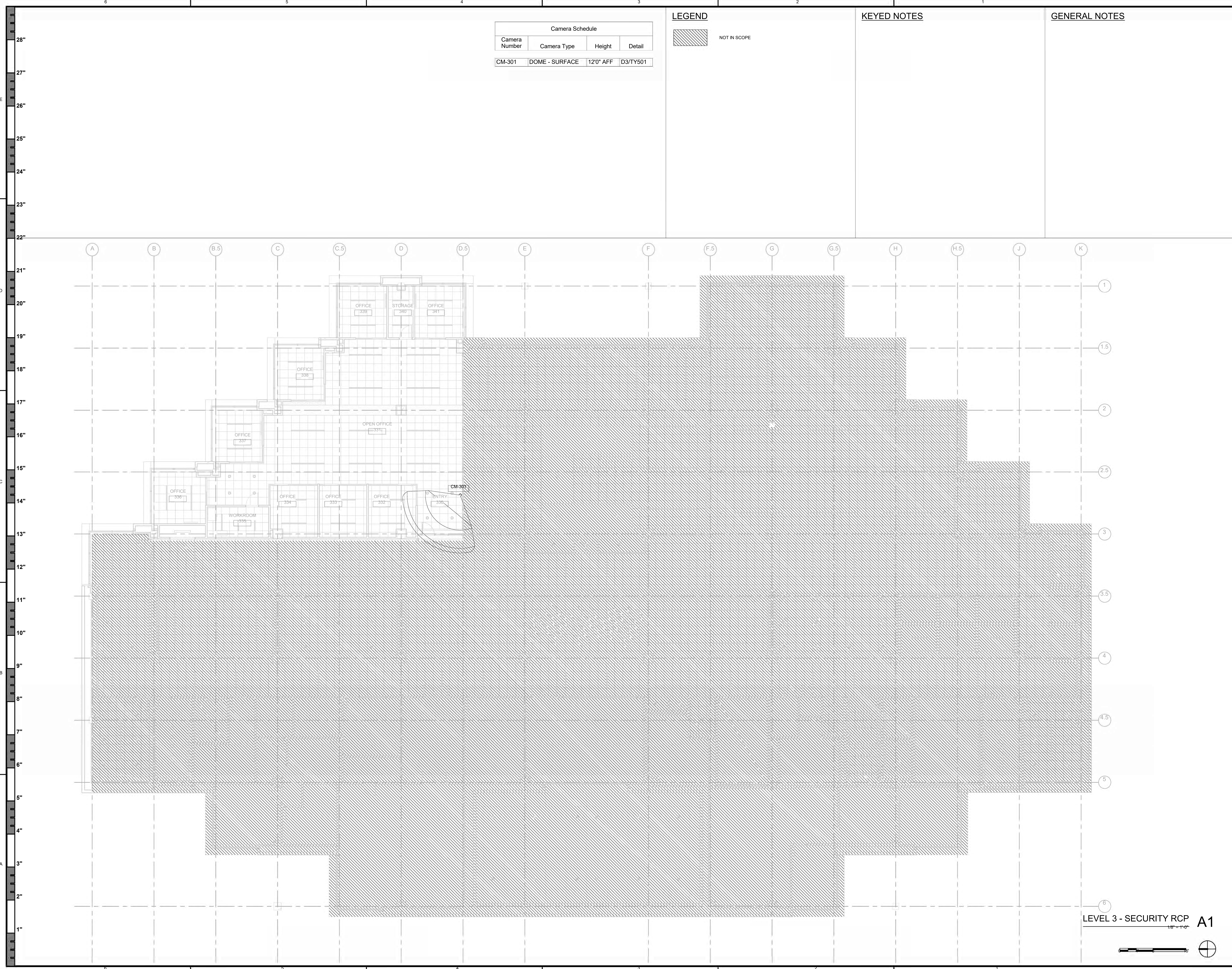
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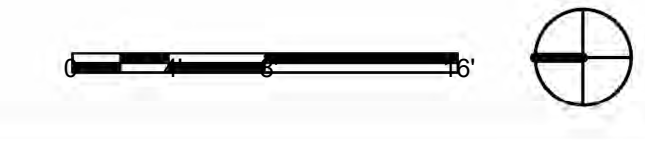
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GENERAL NOTES



LEVEL 3 - SECURITY RCP A1
1/8" = 1'-0"



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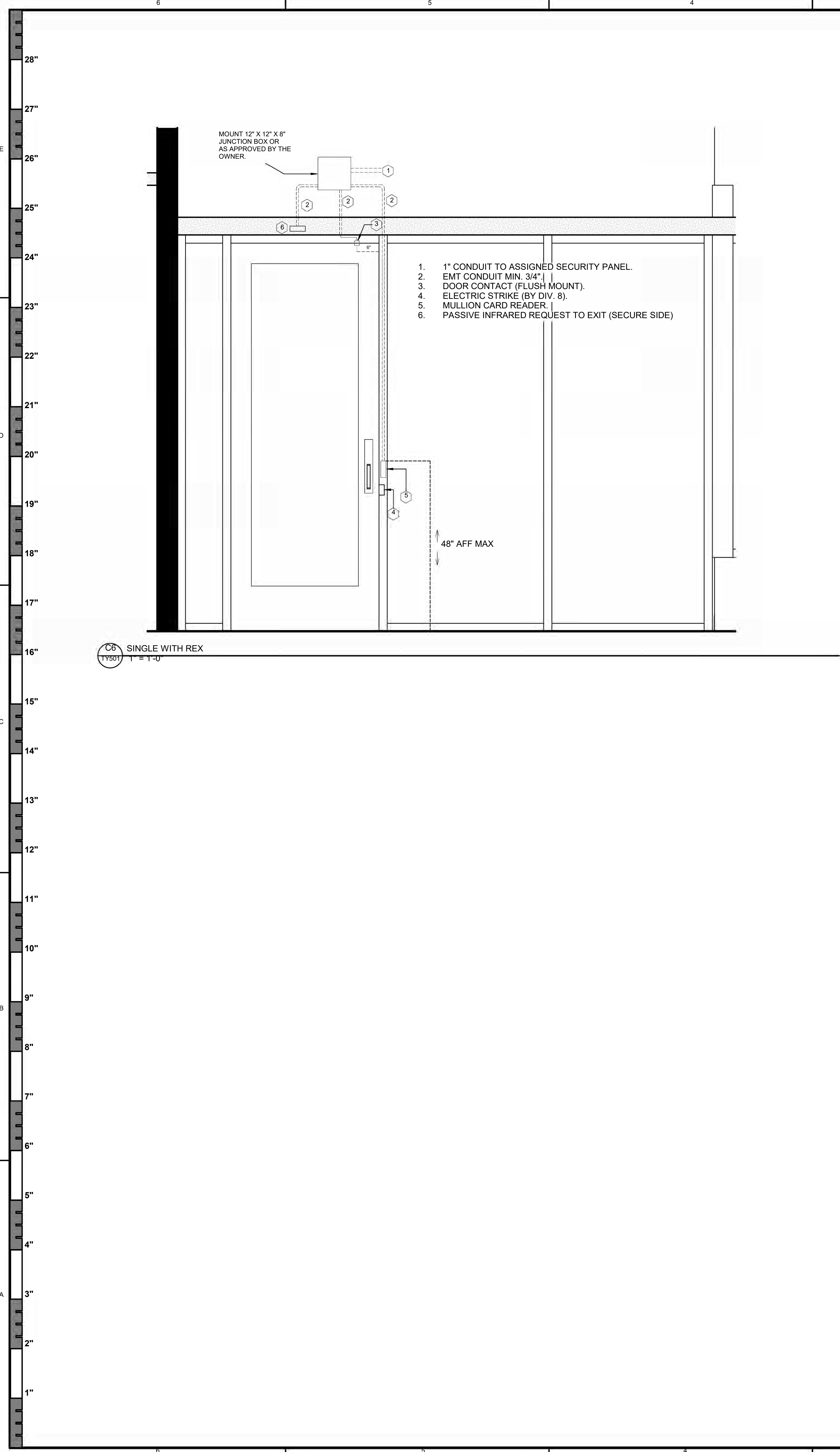
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TY153

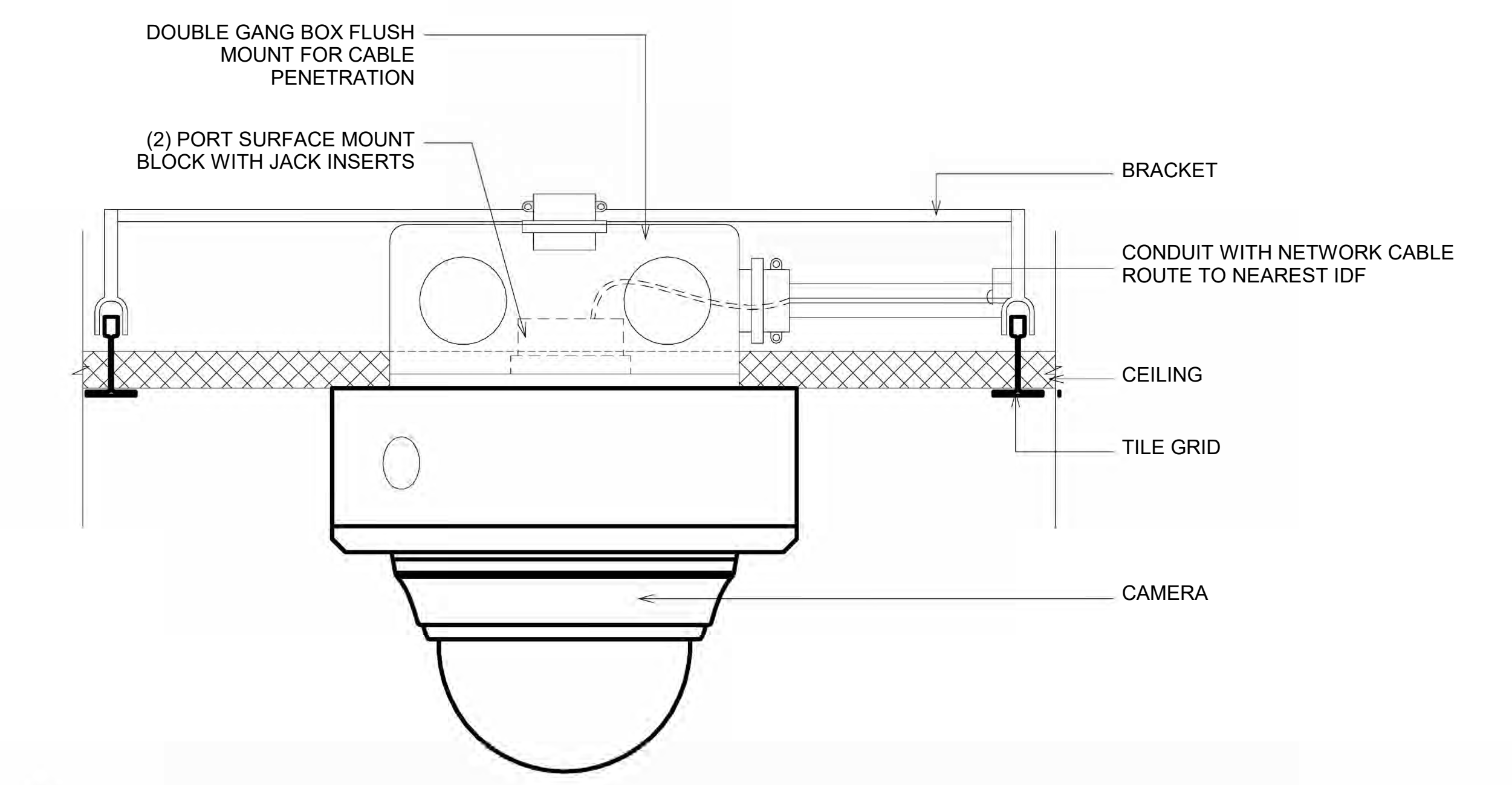
SECURITY REFLECTED
CEILING PLAN - LEVEL 3

Project No. HE0686.2402.00

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C3 SINGLE WITH REX
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C3 CAMERA DETAIL - CEILING MOUNT
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