

5/31/2019 12:13:07 PM C:\Users\sam2\Documents\20190118 Elec Central_sam2\XVCWG.rvt
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- ### GENERAL SHEET NOTES
- 1 CIRCUIT ALL EXIT SIGNS TO AN UNSWITCHED LEG OF THE EMERGENCY CIRCUIT INDICATED.
 - 2 PROVIDE FULL-RANGE DIMMING AND DIMMING SWITCHES OF ALL FIXTURES IN THE PROJECT. PROVIDE AUTOMATIC DIMMING OF ALL FIXTURES LOCATED IN THE DAYLIGHT ZONES IN RESPONSE TO THE PHOTOCELLS LOCATED ALONG THE SAME FACADE.
 - 3 THE EXISTING CORE WALLS AND SHAFTS ARE FIRE RATED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - 4 REFER TO THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL ON SHEET EE702 FOR ADDITIONAL REQUIREMENTS REGARDING DEVICE LOCATIONS.



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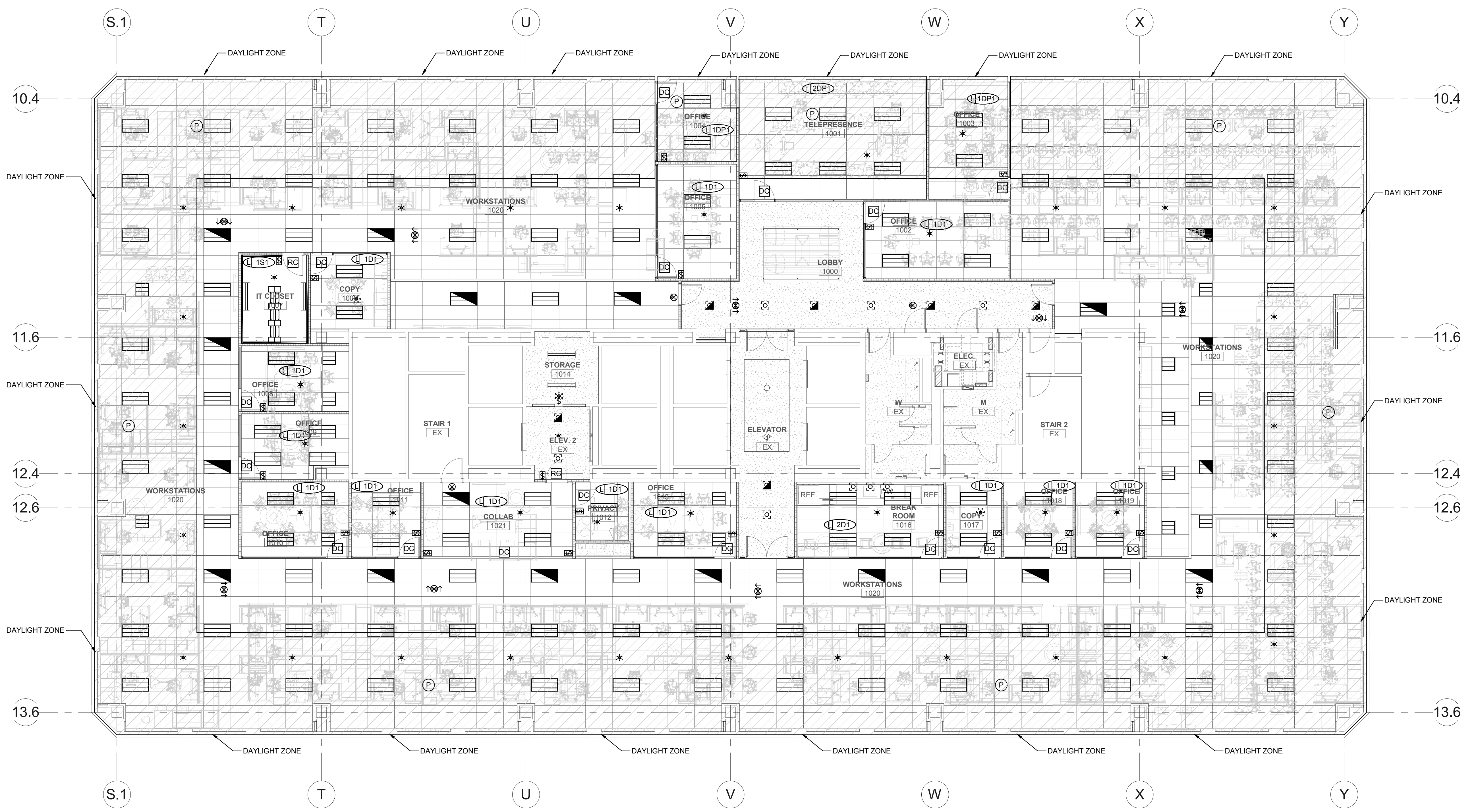


No. 8182456
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STATE OF UTAH
5/25/2019

ARCHITECT / CONSULTANT



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www.spectrum-engineers.com



PROJECT DESCRIPTION
**KEY BANK TOWER
LEVEL 10 AND 16 TI**

36 S STATE ST, SLC UT 84111
AHJ STAMP

SHEET NAME:
**LEVEL 10 LIGHTING
ZONE PLAN**

REVISIONS
MARK DATE DESCRIPTION

ISSUE DATE: 5/25/2019
ISSUE TYPE: PERMIT
DRAWN BY: DBS
CHECKED BY: TDS
PROJECT#: 1904.01

SHEET NUMBER:

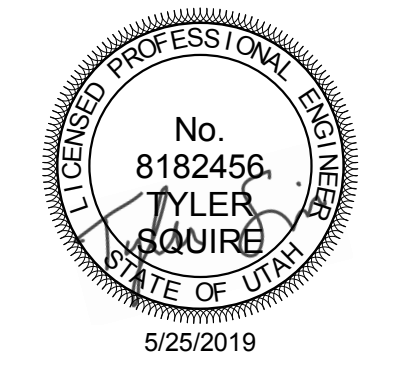
A1 LEVEL 10 LIGHTING ZONE PLAN
SCALE: 1/8" = 1'-0"

EL210

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**KEY BANK TOWER
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36 S STATE ST, SLC UT 84111
 AHJ STAMP

SHEET NAME:
**LEVEL 16 LIGHTING
 ZONE PLAN**

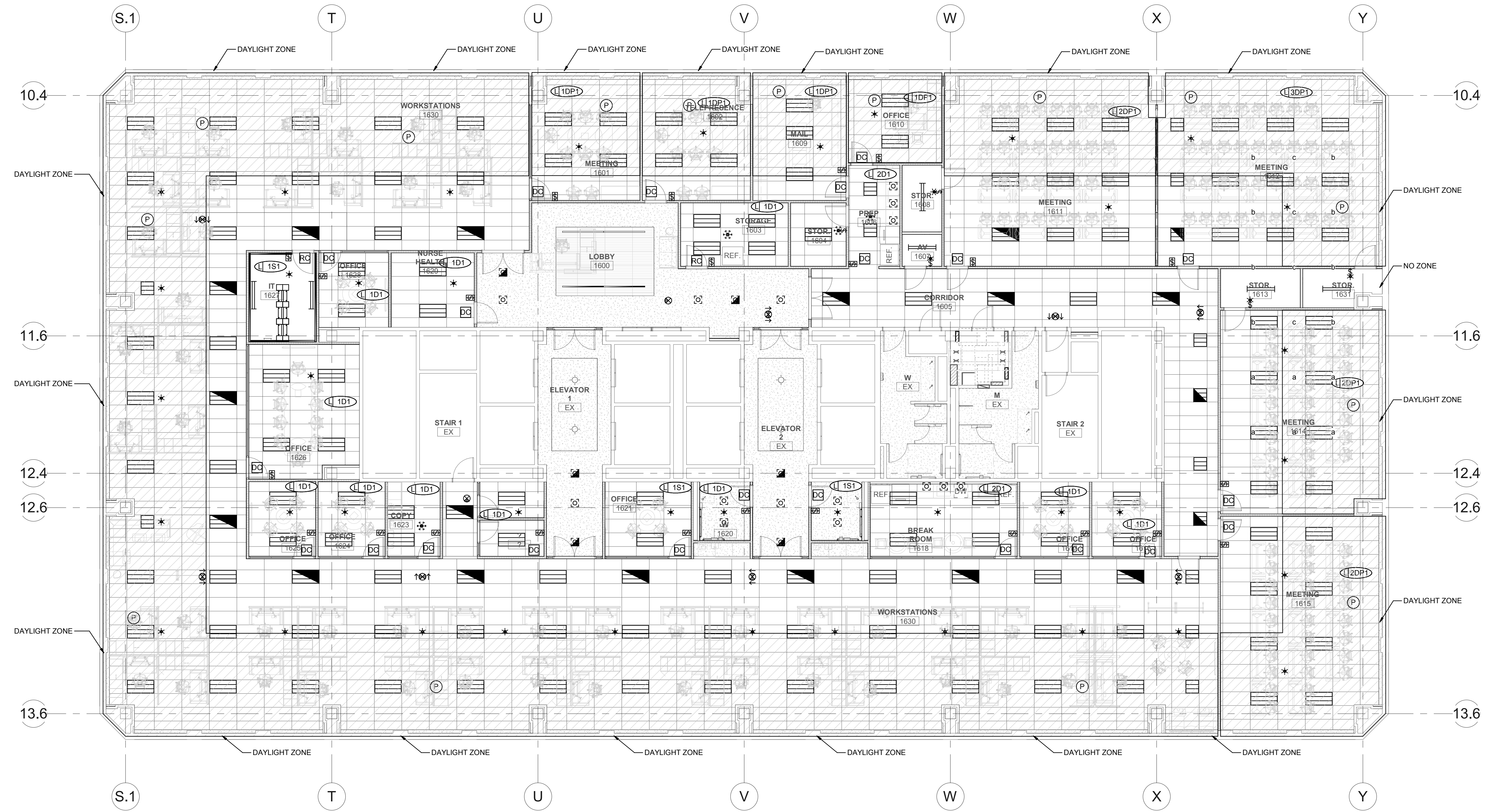
REVISIONS

MARK	DATE	DESCRIPTION

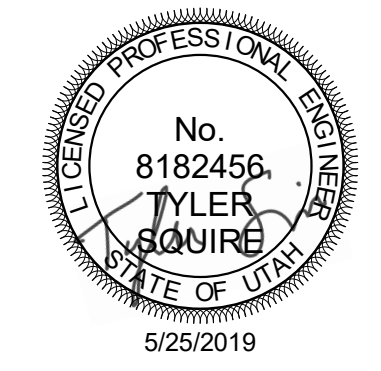
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(A1) LEVEL 16 LIGHTING ZONE PLAN
 SCALE: 1/8" = 1'-0"



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PROJECT DESCRIPTION KEY BANK TOWER LEVEL 10 AND 16 T

36 S STATE ST, SLC UT 84111 AHJ STAMP

SHEET NAME: INTERIOR LIGHTING FIXTURE SCHEDULE

REVISIONS MARK DATE DESCRIPTION 1 6/4/19 ADD #01

ISSUE DATE: 5/25/2019 ISSUE TYPE: PERMIT DRAWN BY: DBS CHECKED BY: TDS PROJECT#: 1904.01

SHEET NUMBER:

EL601

INTERIOR LIGHTING FIXTURE SCHEDULE ABBREVIATIONS

GENERAL NOTES

MOUNTING

- B - BASE C - CEILING F - FLANGE G - GRID P - PENDANT POLE R - RECESSED S - SURFACE W - WALL

LUMINAIRE OPTIONS

- ARHR - AIR RETURN AND HEAT REJECTION DL - DAMP LOCATION EGC - EARTHQUAKE CLIPS F - FUSING HLD - HINGED AND LATCHED DOOR HS - HOUSE SIDE SHIELD PS - PHOTOCCELL SWITCH QRS - QUARTZ RESTRIKE ST - STATIC WG - WIRE GUARD WL - WET LOCATION

FINISH

- MW - MATTE WHITE BL - BLACK SL - SILVER GL - GOLD CL - CLEAR PW - PAINTED WHITE AL - ALUMINUM S - STEEL GS - GALVANIZED STEEL C - CAST CBA - COLOR BY ARCHITECT SCBA - STANDARD COLOR BY ARCHITECT CCA - CUSTOM COLOR BY ARCHITECT FS - MEETS FEDERAL STANDARD 209D TP - THERMALLY PROTECTED FL - FLUSH R - REGRESS M - MITERED

DIFFUSER/LENS

- #A - ACRYLIC #THICK #OA - ACRYLIC #THICK (OPAL) CC - GLASS (CLEAR) GO - GLASS (OPAL) GF - GLASS (FROSTED) SGL - SOFT GLOW LENS HPL - HIGH PERFORMANCE LENS DO - DROP OPAL CGL - CONVEX GLASS LENS S - SATIN LENS

REFLECTOR

- OP - NONE/OPEN SP - SPECULAR SS - SEMI-SPECULAR D - DIFFUSE (WHITE ENAMEL) SC - SPECULAR (COLORED) PR - PRISMATIC FDR - FULL DEPTH REFLECTOR DS - DIFFUSE (SEMI SPECULAR) SILVER LI - LOW IRIDESCENT IR - IRIDESCENT SL - SILVER GL - GOLD CA - CLEAR ALZAK

- 1. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. 2. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED. CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. 3. SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING. THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING. 4. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES. 5. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION. 6. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. 7. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS. 8. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, DRIVERS, AND LAMPS. 9. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND USU

NOTES

1

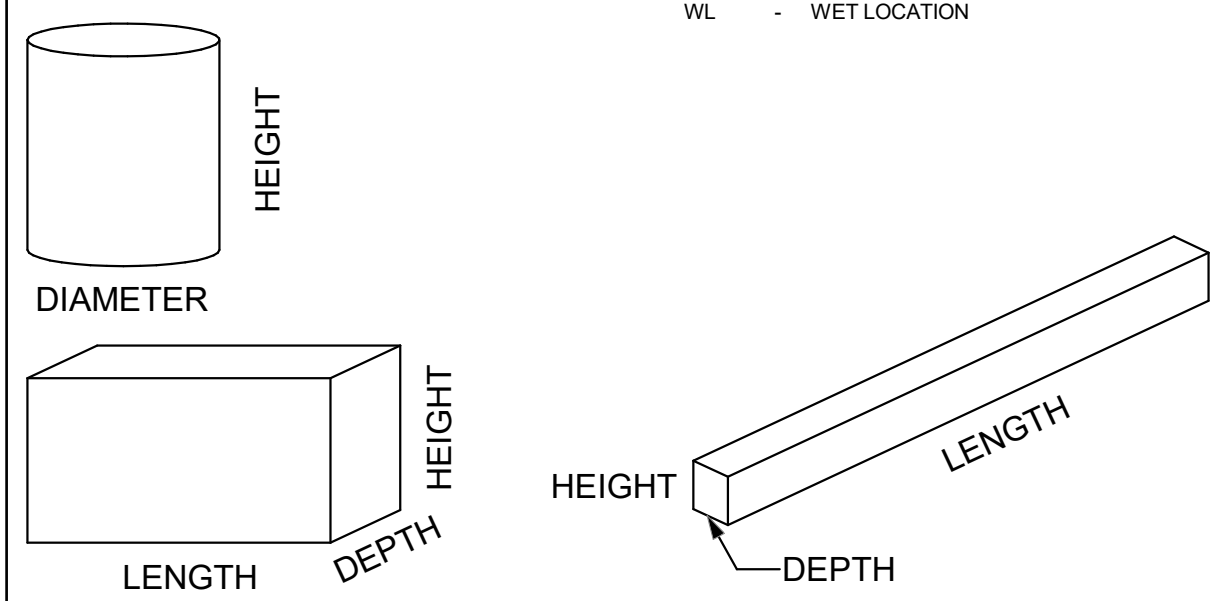


Table with columns: ID, DESCRIPTION, NOMINAL SIZE (LENGTH, DEPTH, HEIGHT), DIAMETER/APERTURE, MOUNTING, TYPE, COLOR TEMP, CRI, DRIVER CONFIGURATION, VOLTAGE, WATTS, FINISH, FIXTURE LUMENS, DIFFUSER/LENS, REFLECTOR, OPTIONS, MANUFACTURER (CATALOG SERIES) (OPTION 1, OPTION 2, OPTION 3)

LIGHTING RELAY PANEL SCHEDULE

PANEL NAME: R16 ACCESSORIES: INTEGRAL PROCESSOR LOCATION: ASTRONOMICAL TIMECLOCK SUPPLY VOLTAGE: LAN CONNECTIVITY AND CONTROL MOUNTING: SURFACE ENCLOSURE: NEMA 1

Table with columns: RELAY, DIMMING, PANEL..., DESCRIPTION, CHANNEL CONTROL (A-F), LOAD (WATTS), F, E, D, C, B, A, DESCRIPTION, PANEL..., DIMMING, RELAY

Table with columns: CHANNEL, DIMMING, CHANNEL DESCRIPTION, CHANNEL PROGRAMMING REQUIREMENTS

- GENERAL NOTES: 1. PROGRAMMING OF SYSTEM SHALL COMPLY WITH CURRENT IECC REQUIREMENTS. 2. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER. 3. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION. 4. ALL SPARE RELAYS AND CHANNELS SHALL BE INCLUDED WITH ORIGINAL SYSTEM INSTALLATION. 5. UPON LOSS OF NORMAL POWER, ALL EMERGENCY LIGHTING RELAYS SHALL TURN ON TO 100% UNTIL NORMAL POWER IS RESTORED, THEN GO BACK TO STANDARD MODE. ** CHANNEL SHALL BE PROGRAMMED WITH 10 MINUTE WARNING PRIOR TO TURNING LIGHTS OFF BY BLINKING THE LIGHTS OFF/ON/OFF/ON.

LIGHTING RELAY PANEL SCHEDULE

PANEL NAME: R10 ACCESSORIES: INTEGRAL PROCESSOR LOCATION: ELEC. EX SUPPLY VOLTAGE: LAN CONNECTIVITY AND CONTROL MOUNTING: SURFACE ENCLOSURE: NEMA 1

Table with columns: RELAY, DIMMING, PANEL..., DESCRIPTION, CHANNEL CONTROL (A-F), LOAD (WATTS), F, E, D, C, B, A, DESCRIPTION, PANEL..., DIMMING, RELAY

Table with columns: CHANNEL, DIMMING, CHANNEL DESCRIPTION, CHANNEL PROGRAMMING REQUIREMENTS

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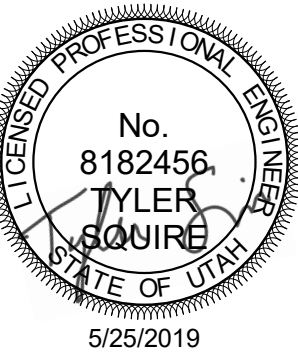
LIGHTING/SPACE CONTROL TYPE SCHEDULE

WIRING LEGEND	APPROVED MANUFACTURERS	LIGHTING CONTROL ID	GENERAL NOTES	GENERAL NOTES
_____ LINE VOLTAGE WIRING - - - - - 0-10V WIRING - - - - - CATSE CABLING _____ WIRING BY OTHERS ○ TWP SEGMENT ○ NETWORK CABLING	1. WATTSTOPPER (BASIS OF DESIGN) 2. NLIGHT 3. HUBBEL BUILDING AUTOMATION 4. GREENGATE	1. # = NUMBER OF ZONES 2. D = DIMMING, S = SWITCHING 3. P = DAYLIGHT PHOTOCELL 4. L = PLUG LOAD CONTROLLER 5. # = INSTANCE	1. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER. 2. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION. 3. PROVIDE CUSTOMIZED ENGRAVED PERMANENT BUTTON LABELS ON EACH SWITCH, LABEL TO MATCH BUTTON LABEL ID OR AS DIRECTED BY OWNER. 4. PART NUMBERS SHOWN ARE BASED ON WATTSTOPPER AS THE BASIS OF DESIGN. ALL APPROVED MANUFACTURERS ARE SUBJECT TO MEETING ALL FUNCTIONS AND CAPABILITIES OF THE BASIS OF DESIGN SYSTEM AND PRODUCTS. FAILURE TO MEET THESE SHALL REQUIRE THE CONTRACTOR TO PROVIDE A SYSTEM THAT DOES AT NOT ADDITIONAL COST.	5. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES. 6. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS. 7. WIRING MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED WIRING THAT WILL BOTH MEET THE MANUFACTURERS REQUIREMENTS AND MATCH WITH THE SHOWN SYSTEM. 8. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS INCLUDING OCCUPANCY SENSOR LAYOUT AND COVERAGE PATTERNS, PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR 100% COVERAGE OF SPACES WITH OCCUPANCY SENSOR CONTROL.

ID	DETAIL	LIGHTS ON CONTROL	LIGHTS OFF CONTROL	LIGHTING CONTROL TYPE	DAYLIGHT SENSOR SETTING (FC)	TIME DELAY TO OFF (MIN)	BAS AUX RELAY SIGNAL	PLUG LOAD CONTROLLER	NETWORKED CONTROLS	BUTTON_1	BUTTON_2	BUTTON_3	BUTTON_4	BUTTON_5	BUTTON_6	BUTTON_7	BUTTON_8	BUTTON_9	NOTES
1D1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP, "ON/RAISE" BOTTOM-"OFF"/LOWER	-	-	-	-	-	-	-	-	-
1DP1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	30	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP, "ON/RAISE" BOTTOM-"OFF"/LOWER	-	-	-	-	-	-	-	-	-
1S1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	ON/OFF	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS-ON PRESS-OFF LABEL ID: "ON/OFF"	-	-	-	-	-	-	-	-	-
2D1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	-	15	RELAY CLOSED ON OCCUPANCY	-	-	TOGGLE PRESS TOP-ON, PRESS BOTTOM-OFF, HOLD TOP-RAISE, HOLD BOTTOM-"OFF"/LOWER	FUNCTION: PRESS- PRESET SCENE #01 ZONE "a" 75% DIMMING LABEL ID: "PRE #1"	FUNCTION: PRESS- PRESET SCENE #02 ZONE "a" 0% ZONE "b" 75% DIMMING LABEL ID: "PRE #2"	FUNCTION: PRESS- SELECT ZONE "a" FOR DIMMING LABEL ID: "ZONE a"	FUNCTION: PRESS- SELECT ZONE "b" FOR DIMMING LABEL ID: "ZONE b"	-	-	-	-	-
2DP1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	30	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE, PRESS BOTTOM-OFF, HOLD BOTTOM-LOWER LABEL ID: TOP, "ON/RAISE" BOTTOM-"OFF"/LOWER	FUNCTION: PRESS- PRESET SCENE #01 ZONE "a" 75% DIMMING LABEL ID: "PRE #1"	FUNCTION: PRESS- PRESET SCENE #02 ZONE "a" 0% ZONE "b" 75% DIMMING LABEL ID: "PRE #2"	FUNCTION: PRESS- SELECT ZONE "a" FOR DIMMING LABEL ID: "ZONE a"	FUNCTION: PRESS- SELECT ZONE "b" FOR DIMMING LABEL ID: "ZONE b"	-	-	-	-	-



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**KEY BANK TOWER
LEVEL 10 AND 16 TI**

36 S STATE ST, SLC UT 84111
AHJ STAMP

SHEET NAME:
**LIGHTING CONTROL
SCHEDULES**

MARK	DATE	DESCRIPTION
1	6/4/19	ADD #01

ISSUE DATE: 5/25/2019
ISSUE TYPE: PERMIT
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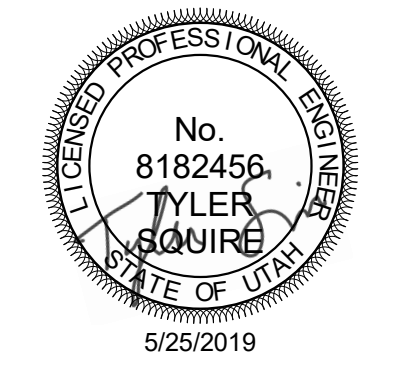
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3DP1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	30	15	RELAY CLOSED ON OCCUPANCY	-	-	TOGGLE PRESS TOP-ON, PRESS BOTTOM-OFF, HOLD TOP-RAISE, HOLD BOTTOM-LOW ER	PRESET SCENE #01 - ZONE "a" 0%, ZONE "b" 50%, ZONE "c" 100%	SELECT ZONE "a"	SELECT ZONE "b"	SELECT ZONE "c"	-	-	-	-	-	



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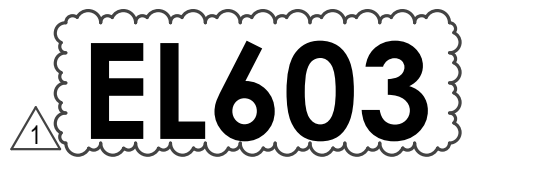
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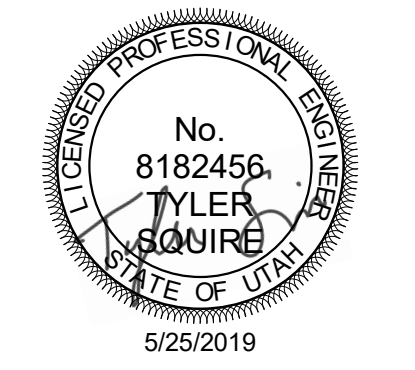
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SHEET KEYNOTES

1 COORDINATE EXACT TERMINATION LOCATION OF DATA DEVICE WITH ELECTRICAL INSTALLER.



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 LICENSED PROFESSIONAL ENGINEER
 STATE OF UTAH
 5/25/2019

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PROJECT DESCRIPTION
**KEY BANK TOWER
 LEVEL 10 AND 16 TI**

36 S STATE ST, SLC UT 84111
 AHJ STAMP

SHEET NAME:
**LEVEL 10 TELECOM
 PLAN**

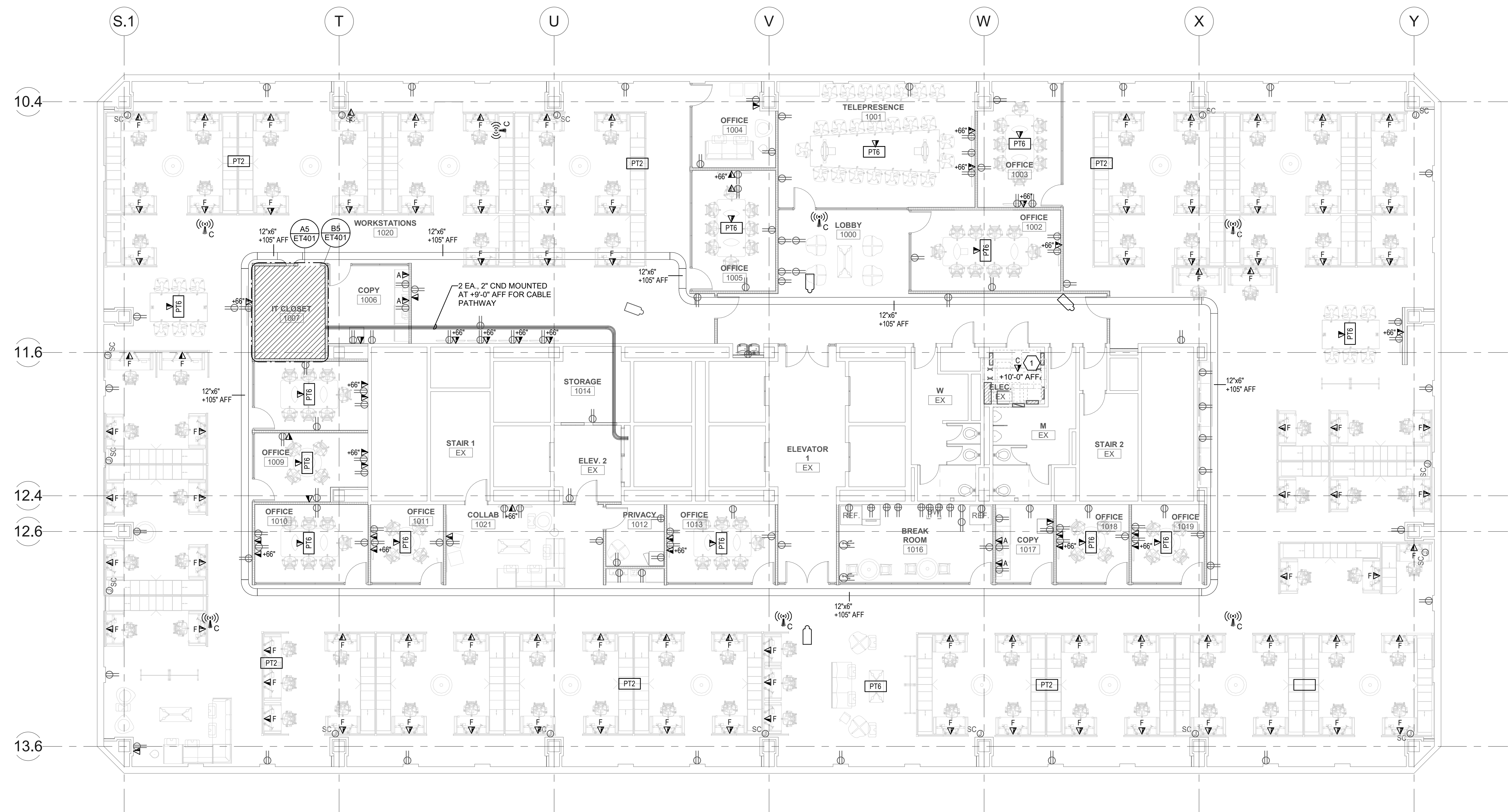
REVISIONS

MARK	DATE	DESCRIPTION

ISSUE DATE: 5/25/2019
 ISSUE TYPE: PERMIT
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 CHECKED BY: JDA
 PROJECT#: 1904.01

SHEET NUMBER:

ET110



(A1) LEVEL 10 TELECOM PLAN
 SCALE: 1/8" = 1'-0"

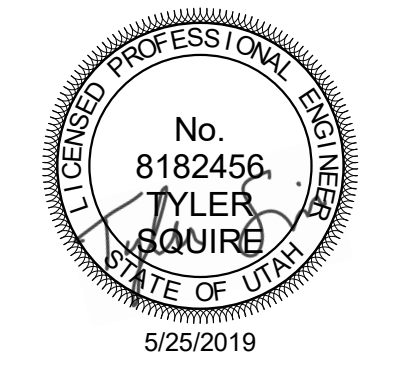
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SHEET KEYNOTES

1 COORDINATE EXACT TERMINATION LOCATION OF DATA DEVICE WITH ELECTRICAL INSTALLER.

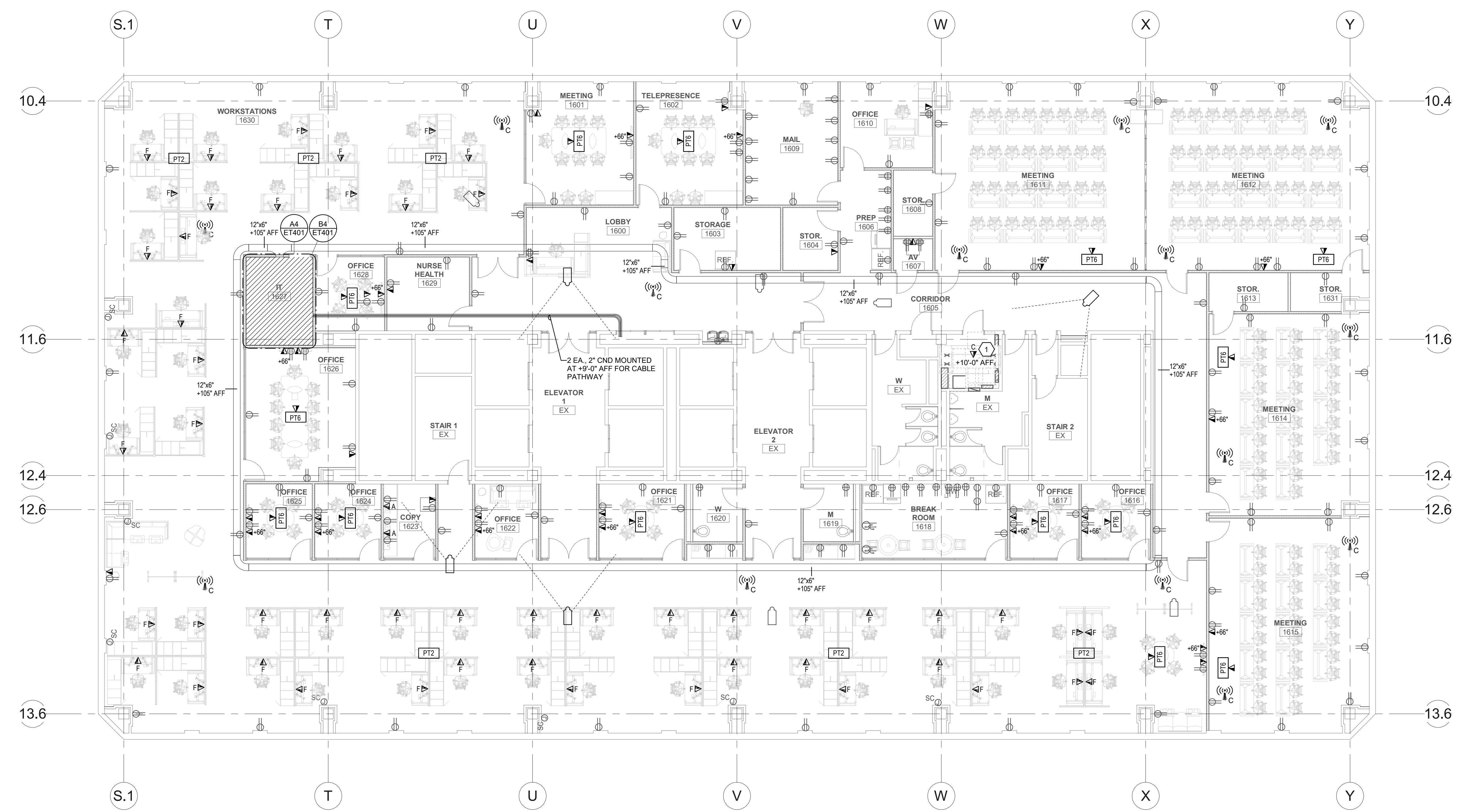
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PROJECT DESCRIPTION

**KEY BANK TOWER
 LEVEL 10 AND 16 TI**

36 S STATE ST, SLC UT 84111
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SHEET NAME:

**LEVEL 16 TELECOM
 PLAN**

REVISIONS

MARK	DATE	DESCRIPTION

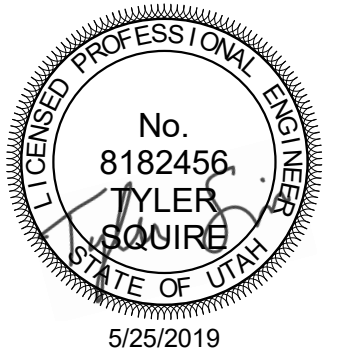
ISSUE DATE: 5/25/2019
 ISSUE TYPE: PERMIT
 DRAWN BY: SJT
 CHECKED BY: JDA
 PROJECT#: 1904.01

SHEET NUMBER:

A1 LEVEL 16 TELECOM PLAN
 SCALE: 1/8" = 1'-0"

ET116

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PROJECT DESCRIPTION

KEY BANK TOWER
 LEVEL 10 AND 16 TI

36 S STATE ST, SLC UT 84111

AHJ STAMP

SHEET NAME:

ENLARGED TELECOM
 PLANS

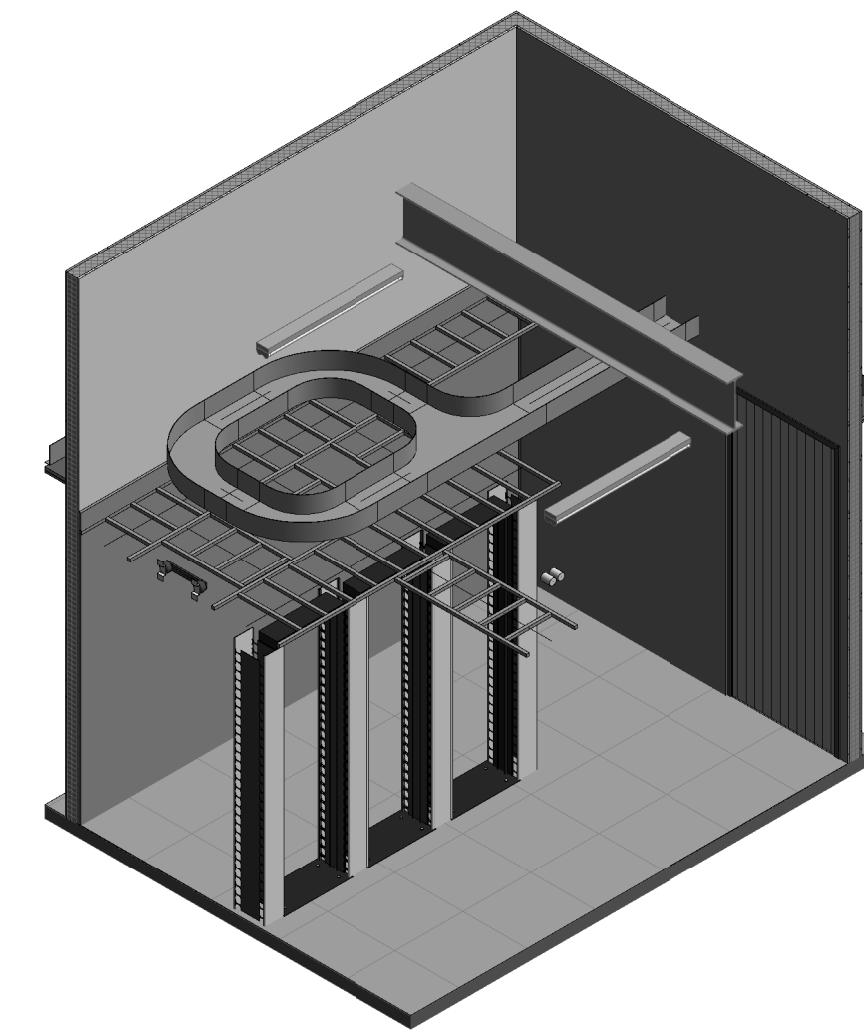
REVISIONS

MARK	DATE	DESCRIPTION

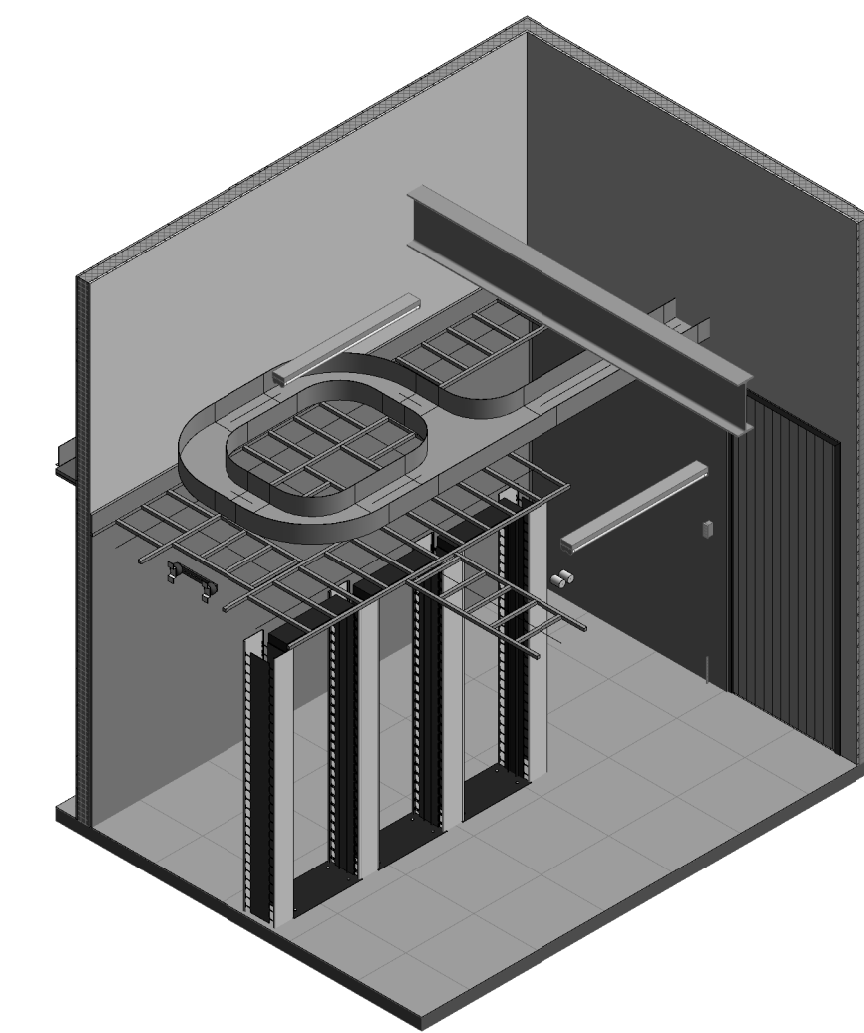
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 ISSUE TYPE: PERMIT
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 CHECKED BY: JDA
 PROJECT#: 1904.01

SHEET NUMBER:

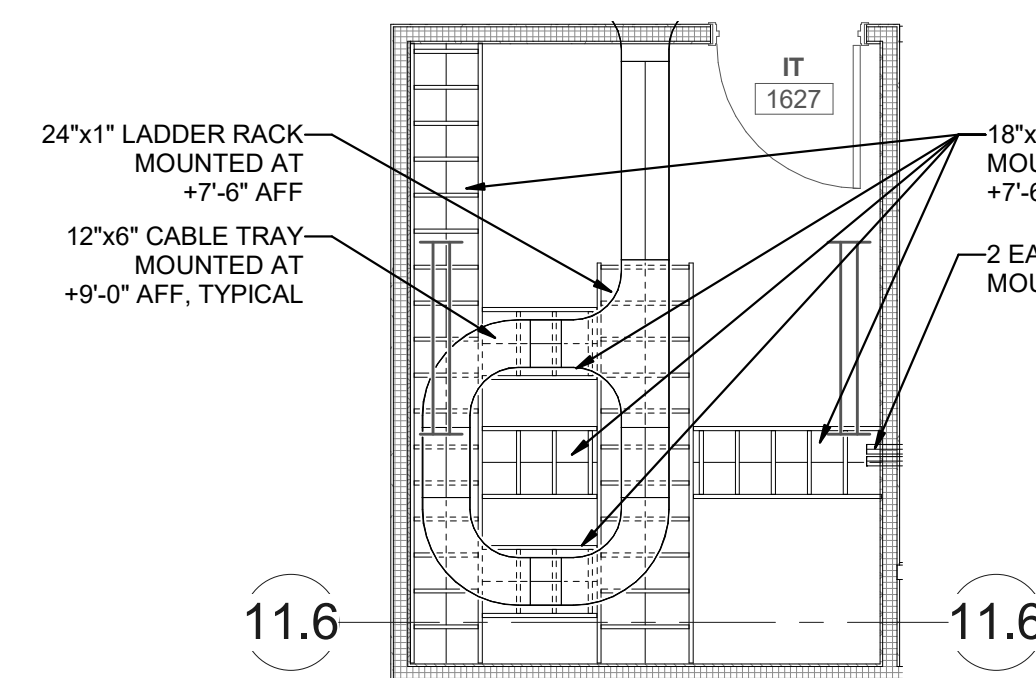
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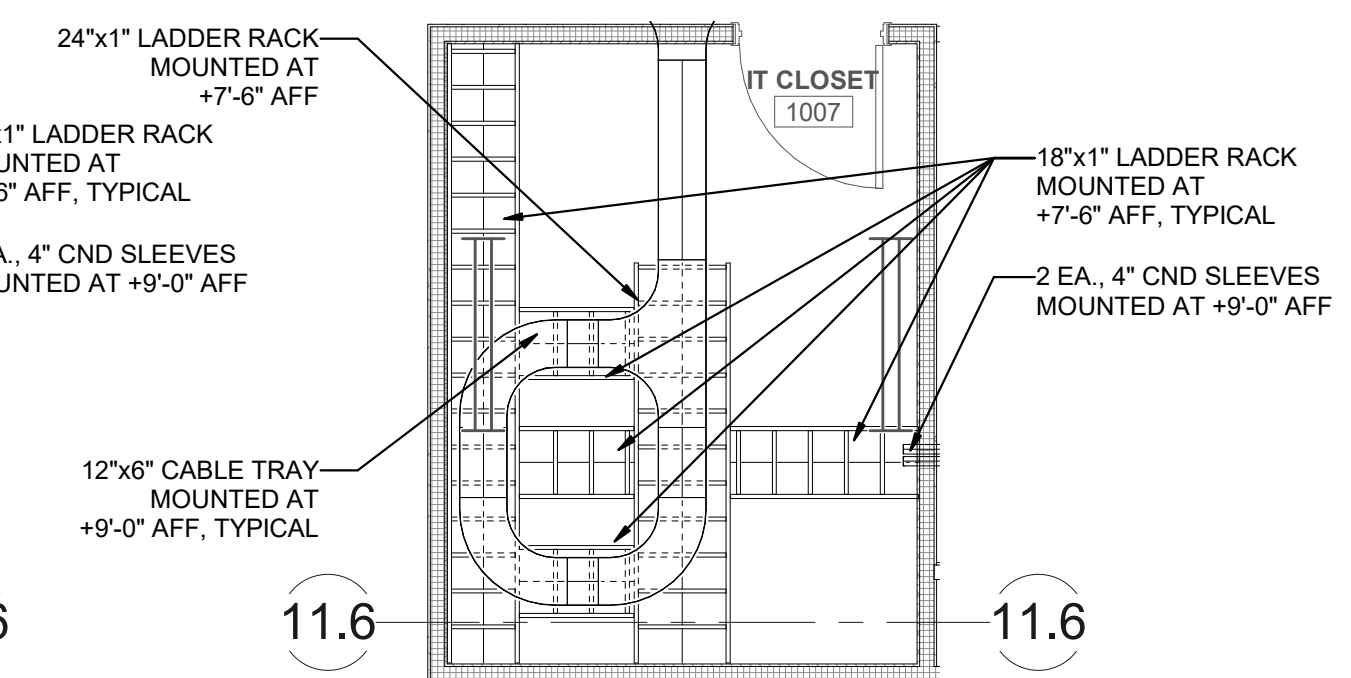
C4 ENLARGED IT CLOSET 1627
 ISOMETRIC PLAN
 SCALE:



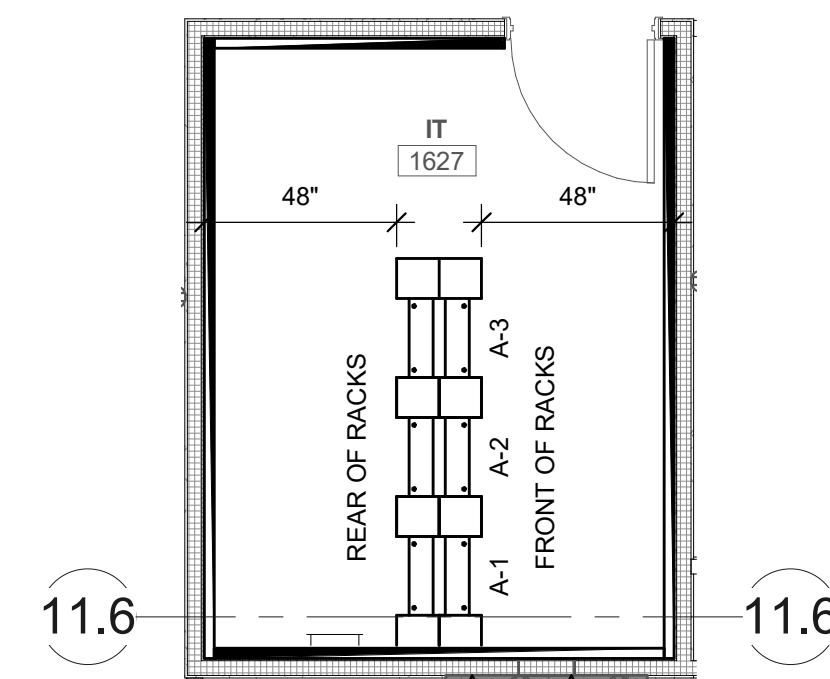
C5 ENLARGED IT CLOSET 1007
 ISOMETRIC PLAN
 SCALE:



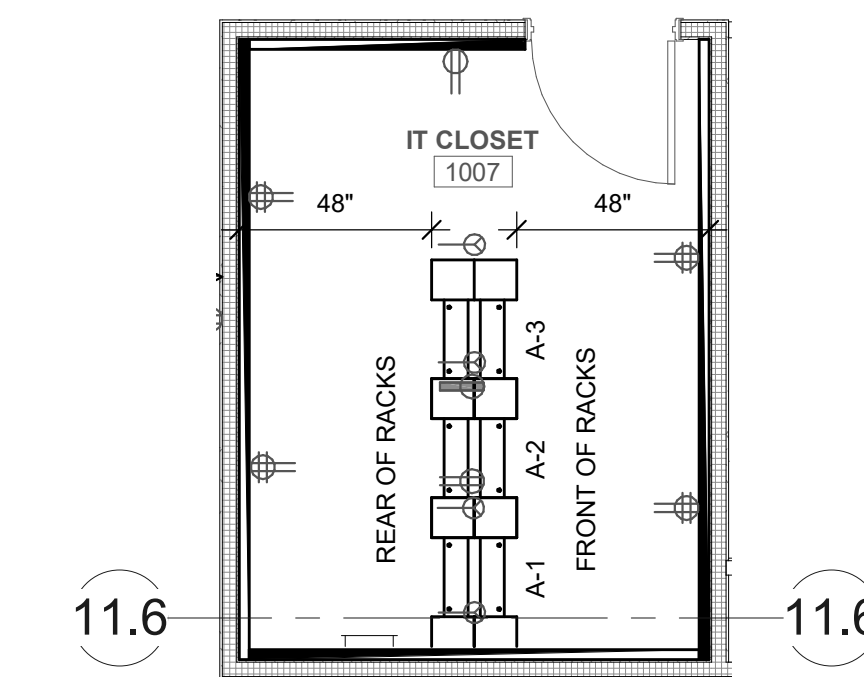
B4 ENLARGED IT CLOSET 1627
 LADDER RACK PLAN
 SCALE: 1/4" = 1'-0"



B5 ENLARGED IT CLOSET 1007
 LADDER RACK PLAN
 SCALE: 1/4" = 1'-0"



A4 ENLARGED IT CLOSET 1627
 EQUIPMENT RACK PLAN
 SCALE: 1/4" = 1'-0"

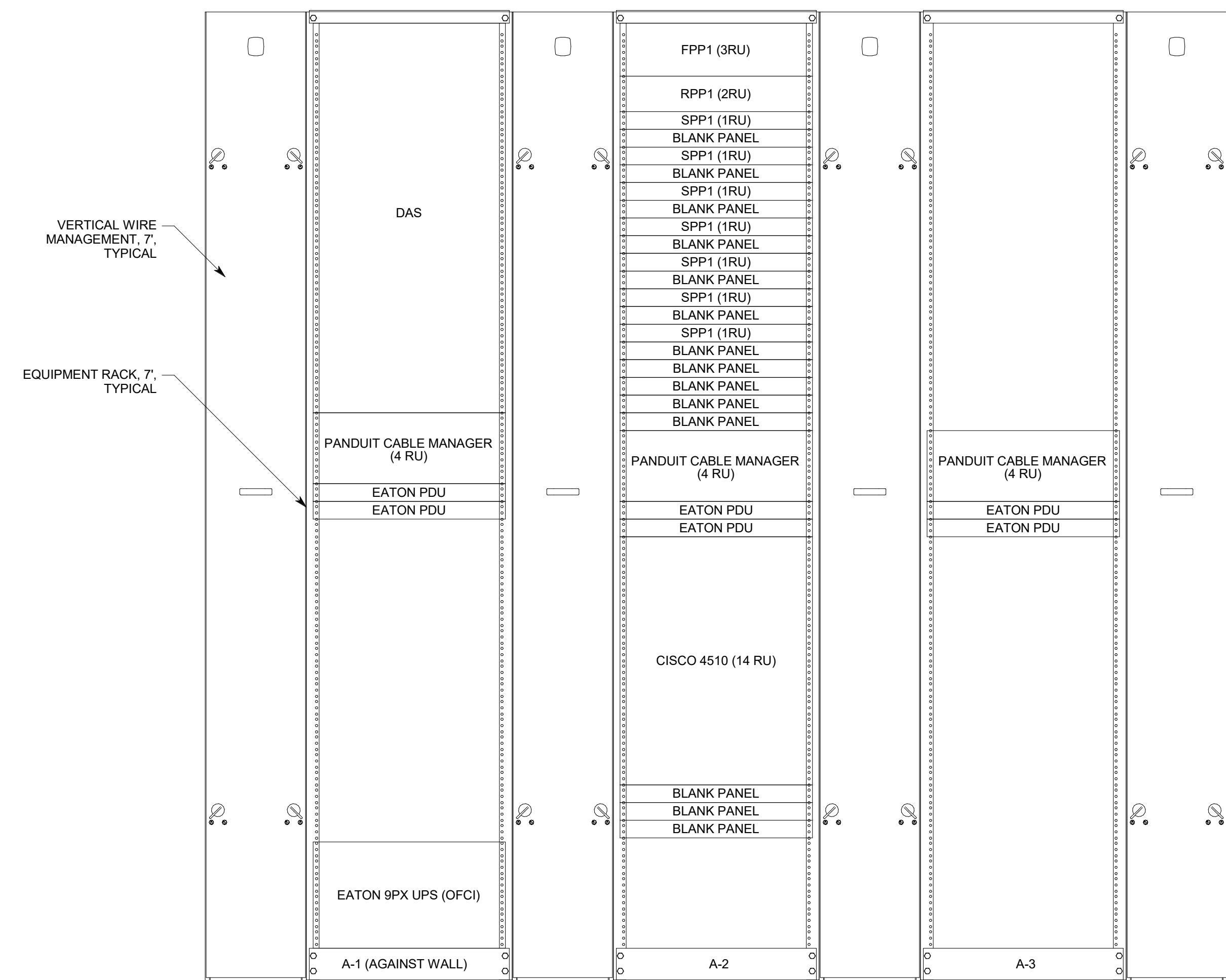


A5 ENLARGED IT CLOSET 1007
 EQUIPMENT RACK PLAN
 SCALE: 1/4" = 1'-0"

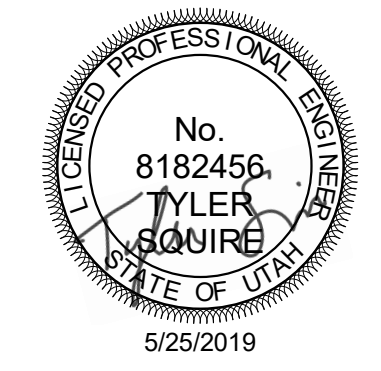
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DATA DEVICE DROP SCHEDULE - IT CLOSET 1007

DATA DEVICE TYPE	DETAIL LOCATION	COMM ROOM LOCATION	TOTAL BY FLOOR	# OF DROPS
LEVEL 10				
CEILING DATA (2-DROP)	SEE DETAIL C4/ET503	IT CLOSET 1007	1	2
CEILING DATA CAMERA (1-DROP)	SEE DETAIL B4/ET503	IT CLOSET 1007	3	3
CEILING WIRELESS ACCESS POINT (2-DROP)	SEE DETAIL C5/ET503	IT CLOSET 1007	7	14
FLOOR DATA (2-DROP)	SEE DETAIL A5/ET503	IT CLOSET 1007	13	26
FURNITURE DATA (2-DROP)	SEE DETAIL A4/ET503	IT CLOSET 1007	92	184
WALL DATA (2-DROP)	SEE DETAIL A5/ET503	IT CLOSET 1007	35	70
WALL DATA - ABOVE COUNTER (2-DROP)	SEE DETAIL A5/ET503	IT CLOSET 1007	4	8
Grand total			155	307



A3 TELECOM RACK ELEVATION DETAIL, LEVEL 10, IT CLOSET 1007
NO SCALE



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PROJECT DESCRIPTION
**KEY BANK TOWER
 LEVEL 10 AND 16 TI**

36 S STATE ST, SLC UT 84111
 AHJ STAMP

SHEET NAME:
**TELECOM EQUIPMENT
 RACK ELEVATIONS**

REVISIONS
 MARK DATE DESCRIPTION

ISSUE DATE: 5/25/2019
 ISSUE TYPE: PERMIT
 DRAWN BY: SJT
 CHECKED BY: JDA
 PROJECT#: 1904.01

SHEET NUMBER:

ET501

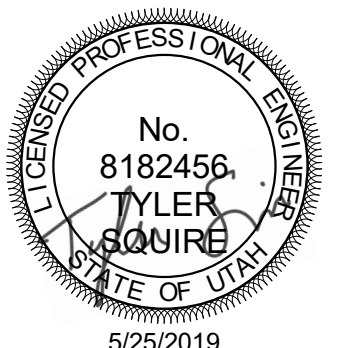
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DATA DEVICE DROP SCHEDULE - IT CLOSET 1627

DATA DEVICE TYPE	DETAIL LOCATION	COMM ROOM LOCATION	TOTAL BY FLOOR	# OF DROPS
LEVEL 16				
CEILING DATA (2-DROP)	SEE DETAIL C4/ET503	IT CLOSET 1627	1	2
CEILING DATA CAMERA (1-DROP)	SEE DETAIL B4/ET503	IT CLOSET 1627	4	4
CEILING WIRELESS ACCESS POINT (2-DROP)	SEE DETAIL C5/ET503	IT CLOSET 1627	14	28
FLOOR DATA (2-DROP)	SEE DETAIL A5/ET503	IT CLOSET 1627	14	28
FURNITURE DATA (2-DROP)	SEE DETAIL A4/ET503	IT CLOSET 1627	51	102
WALL DATA (2-DROP)	SEE DETAIL A5/ET503	IT CLOSET 1627	35	70
WALL DATA - ABOVE COUNTER (2-DROP)	SEE DETAIL A5/ET503	IT CLOSET 1627	2	4
Grand total			121	238



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PROJECT DESCRIPTION

**KEY BANK TOWER
LEVEL 10 AND 16 TI**

36 S STATE ST, SLC UT 84111

AHJ STAMP

SHEET NAME:

**TELECOM EQUIPMENT
RACK ELEVATIONS**

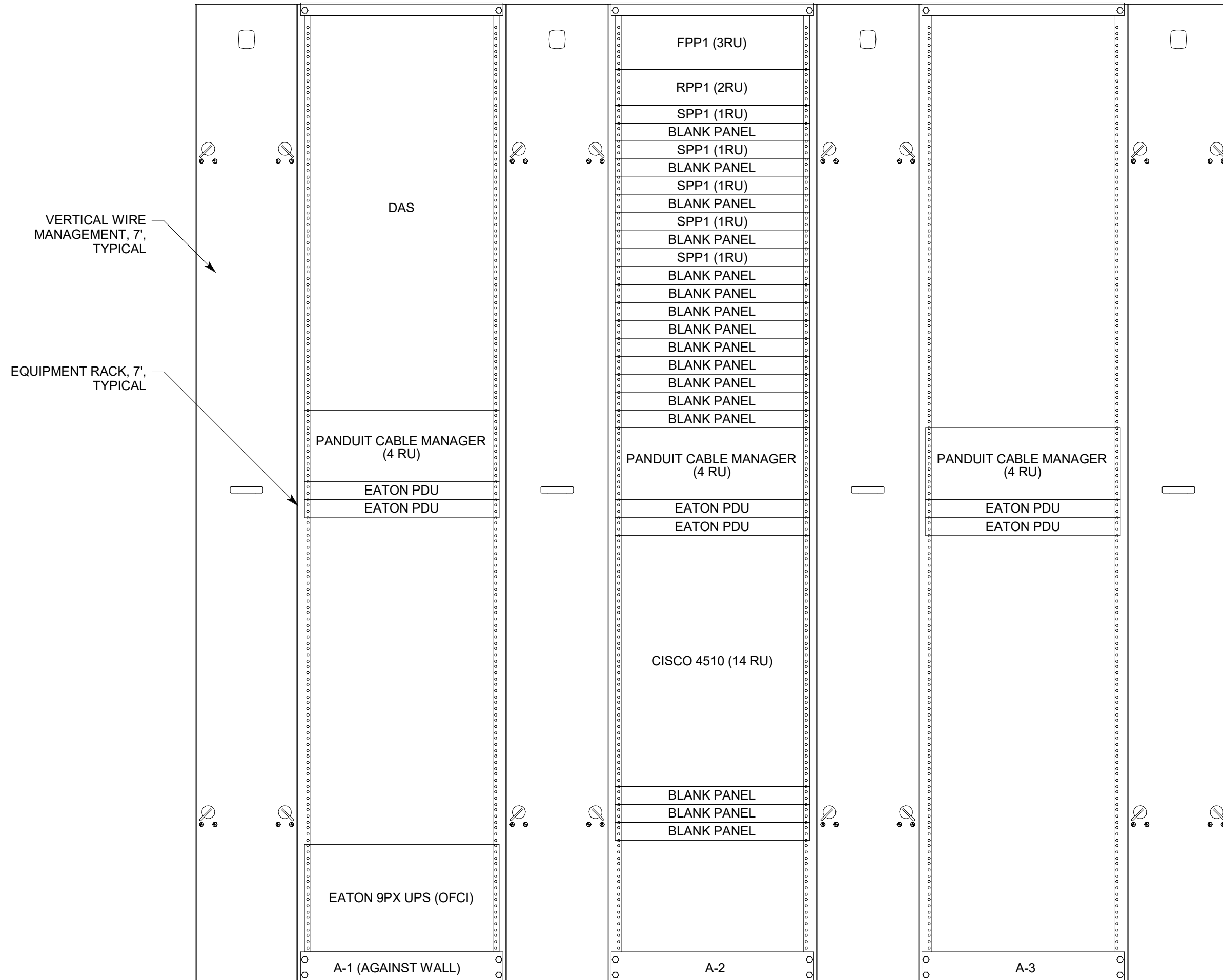
REVISIONS

MARK DATE DESCRIPTION

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ISSUE TYPE: PERMIT
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CHECKED BY: JDA
PROJECT#: 1904.01

SHEET NUMBER:

ET502



A3 TELECOM RACK ELEVATION DETAIL, LEVEL 16, IT CLOSET 1627

NO SCALE

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PROJECT DESCRIPTION
**KEY BANK TOWER
LEVEL 10 AND 16 TI**

36 S STATE ST, SLC UT 84111
AHJ STAMP

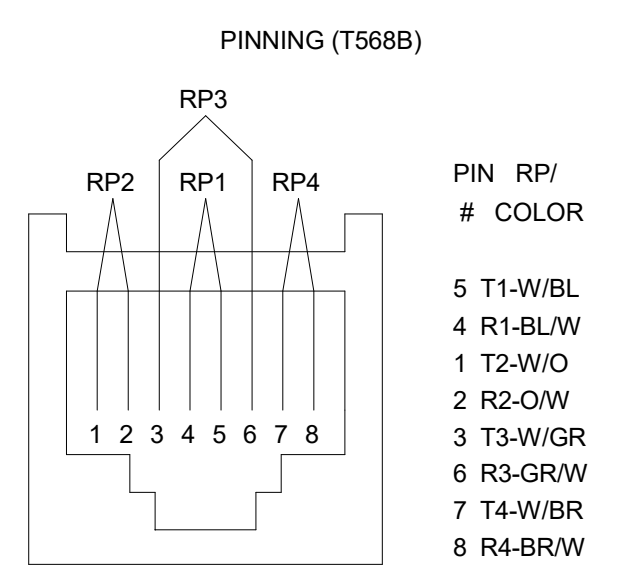
SHEET NAME:
TELECOM DETAILS

REVISIONS
MARK DATE DESCRIPTION

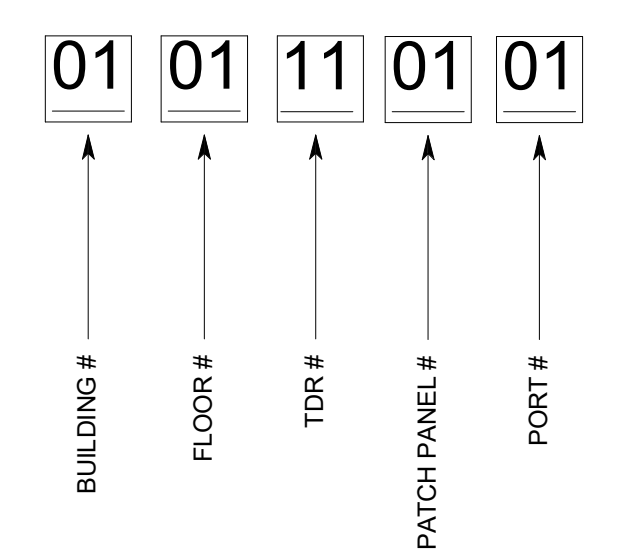
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PROJECT#: 1904.01

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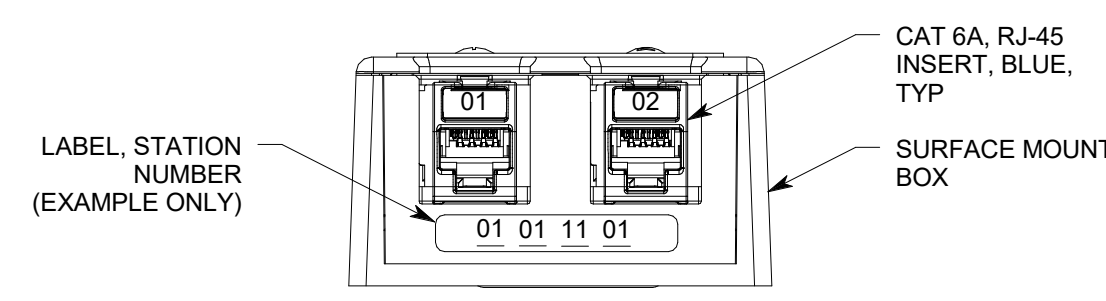
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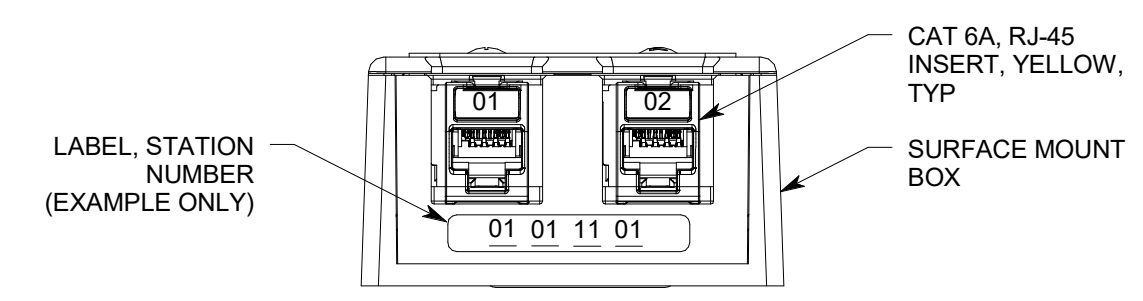
D4 TYPICAL VOICE-DATA OUTLET PINNING DETAIL
NO SCALE



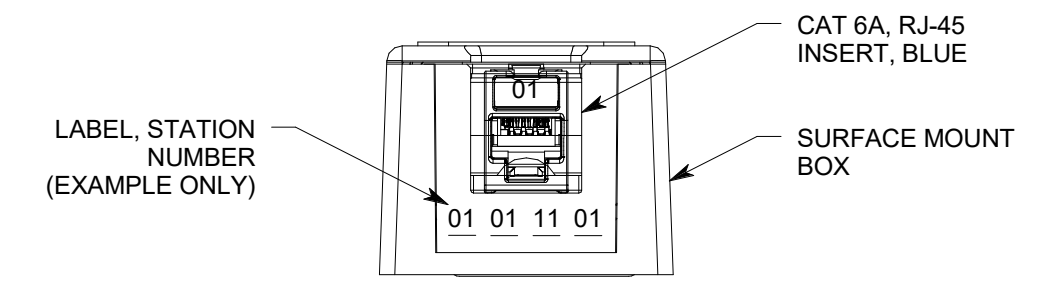
D5 CABLE ID EXAMPLE DETAIL
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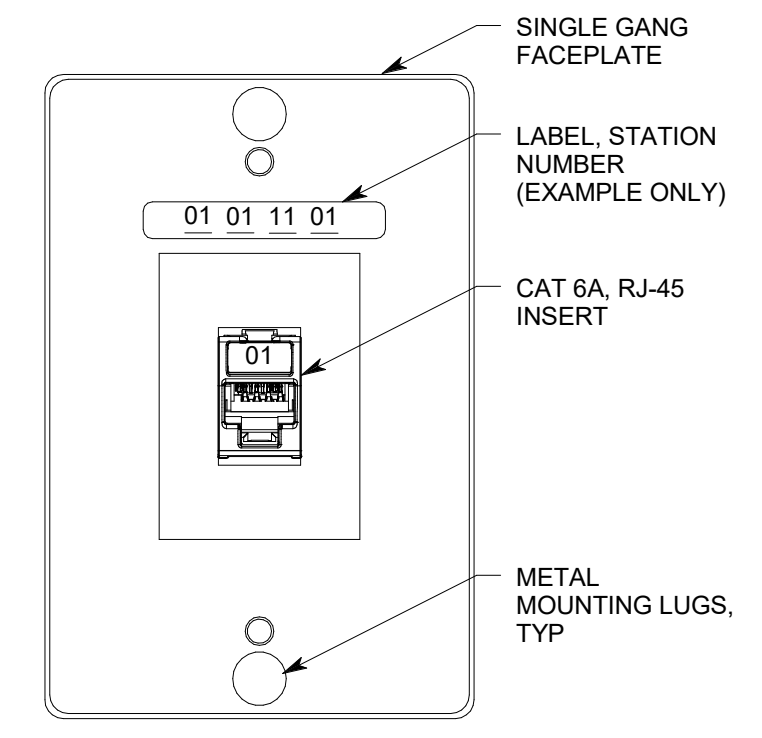
C4 TYPICAL 2-PORT DATA OUTLET
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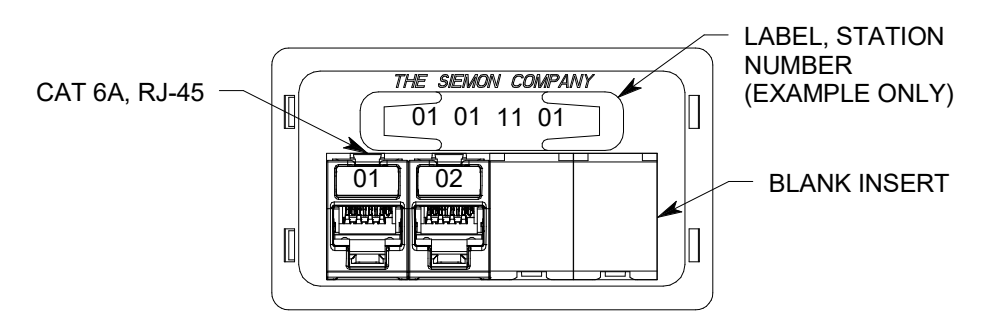
C5 TYPICAL 'WAP' DATA OUTLET
NO SCALE



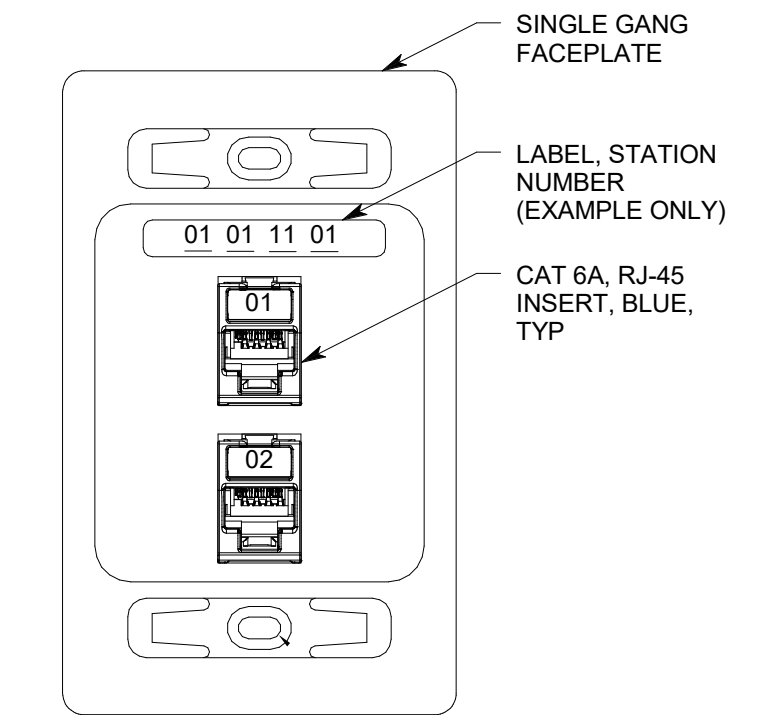
B4 TYPICAL 1-PORT CAMERA DATA OUTLET
NO SCALE



B5 TYPICAL WALL PHONE OUTLET
NO SCALE



A4 TYPICAL 2-PORT FURN DATA OUTLET
NO SCALE



A5 TYPICAL 2-PORT DATA OUTLET
NO SCALE

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D

C

B

A

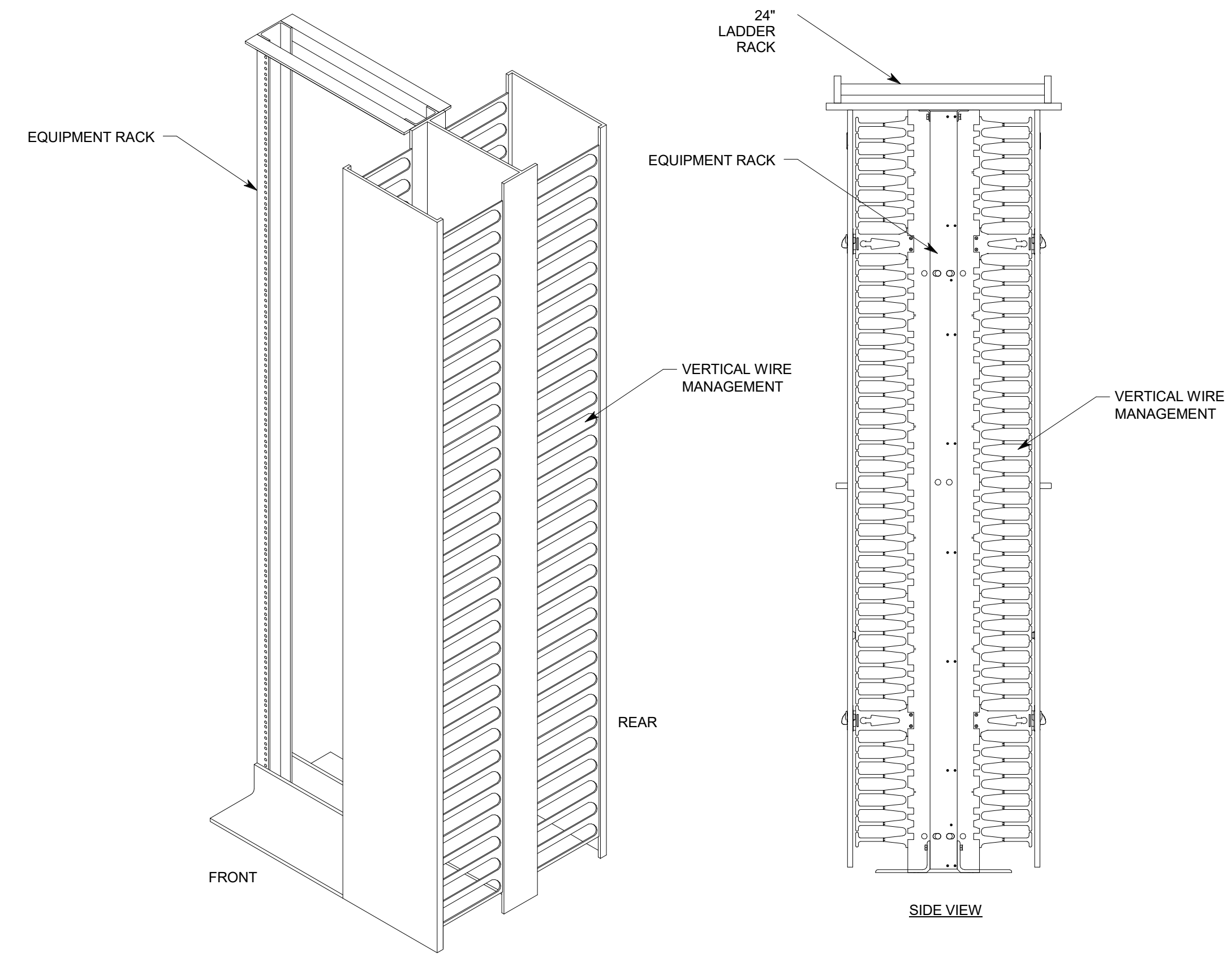
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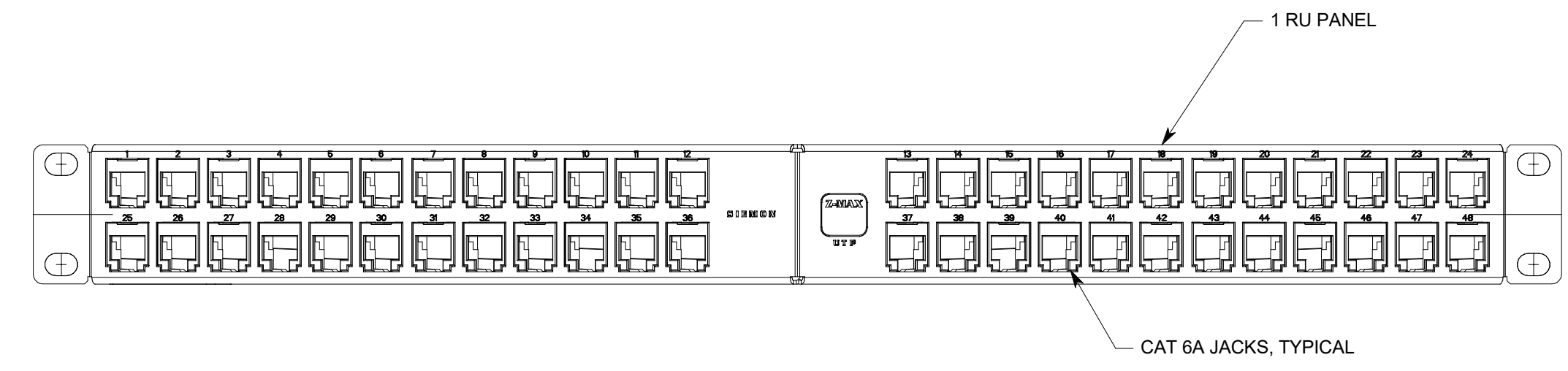
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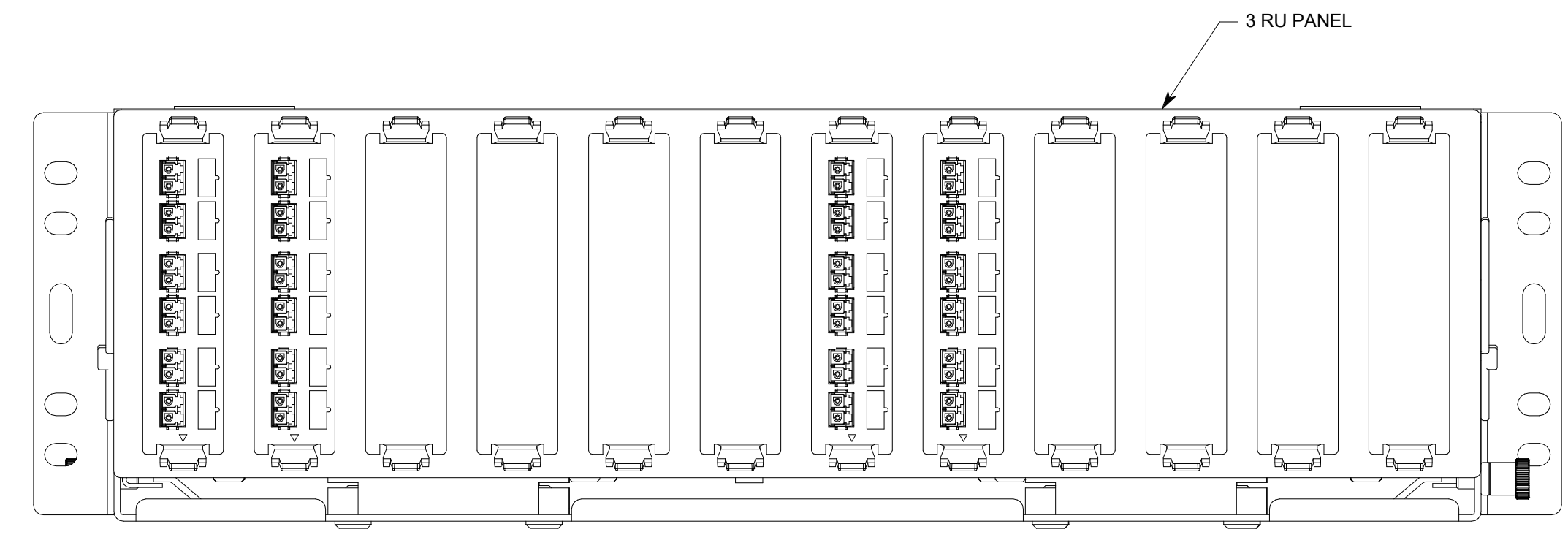
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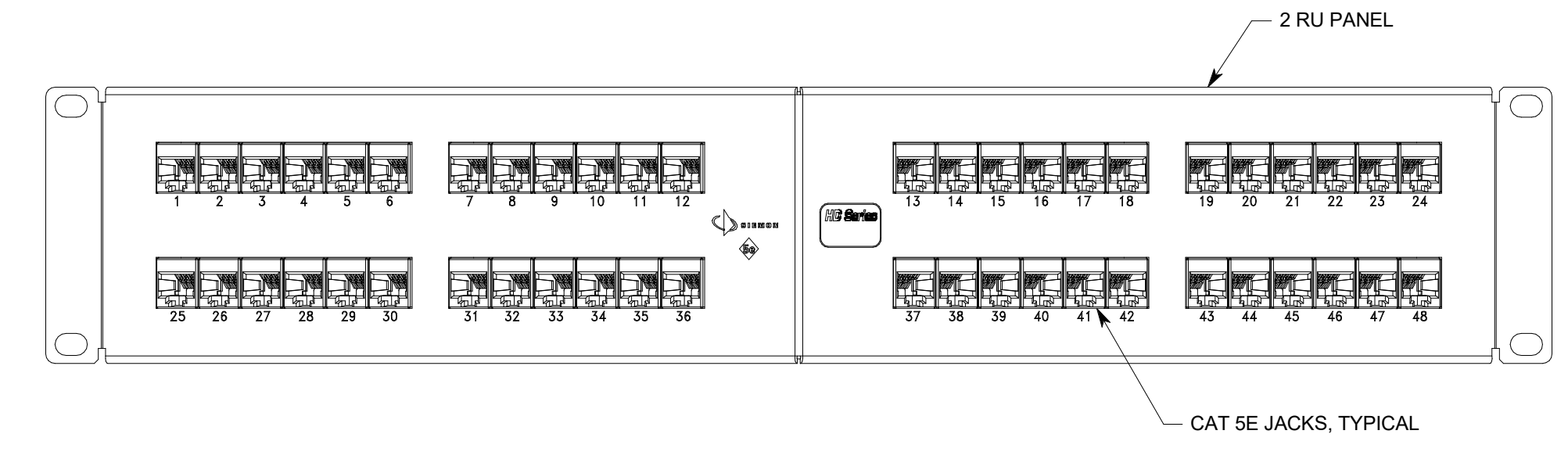
A2 EQUIPMENT RACK/RACEWAY MOUNTING
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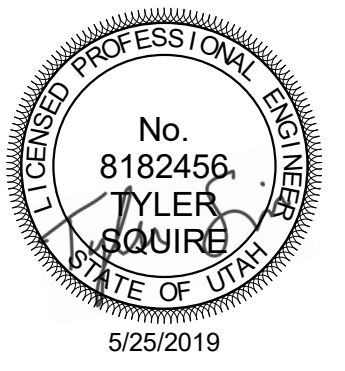
C4 STATION PATCH PANEL, (SPP1), TDR
NO SCALE



B4 FIBER PATCH PANEL, (FPP1), TDR
NO SCALE



A4 RISER PATCH PANEL, (RPP1), TDR, TEC/TSER
NO SCALE



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SHEET NAME:
TELECOM DETAILS

REVISIONS

MARK	DATE	DESCRIPTION

ISSUE DATE: 5/25/2019
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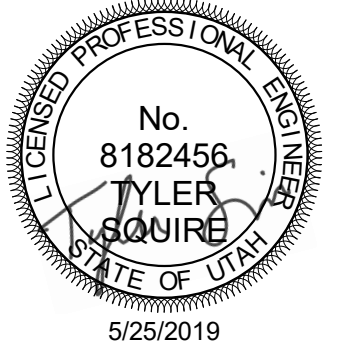
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3

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5

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AHJ STAMP

SHEET NAME:

TELECOM DETAILS

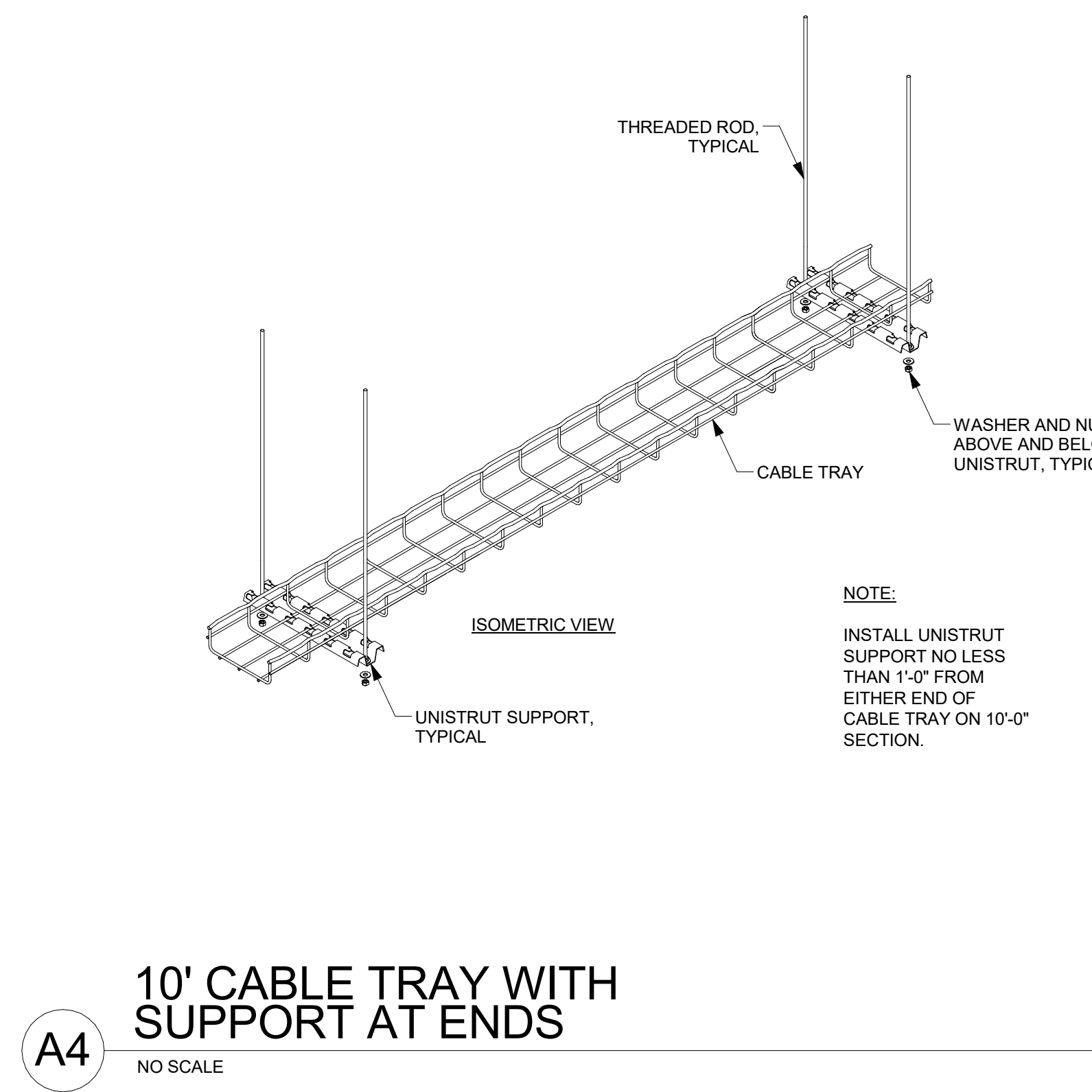
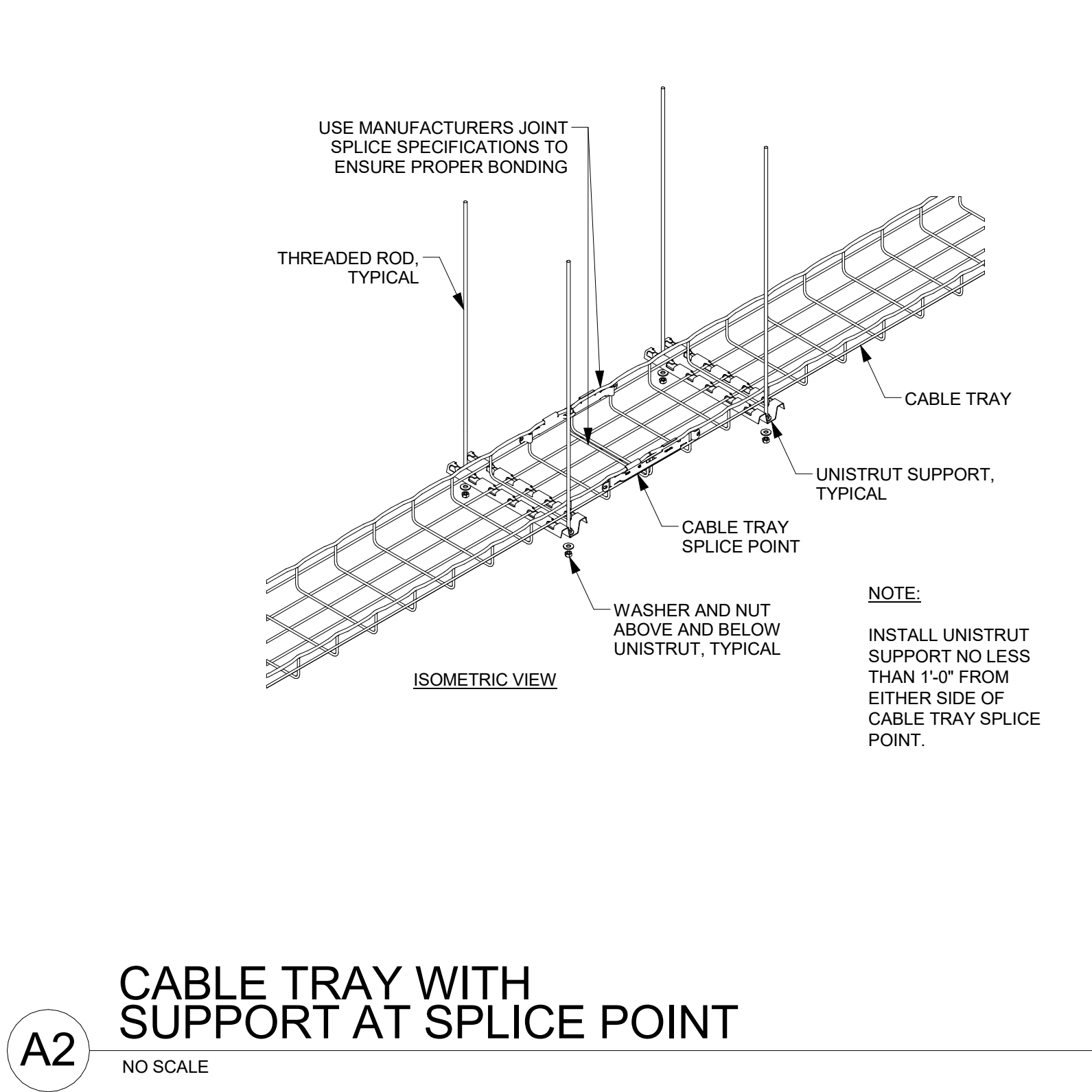
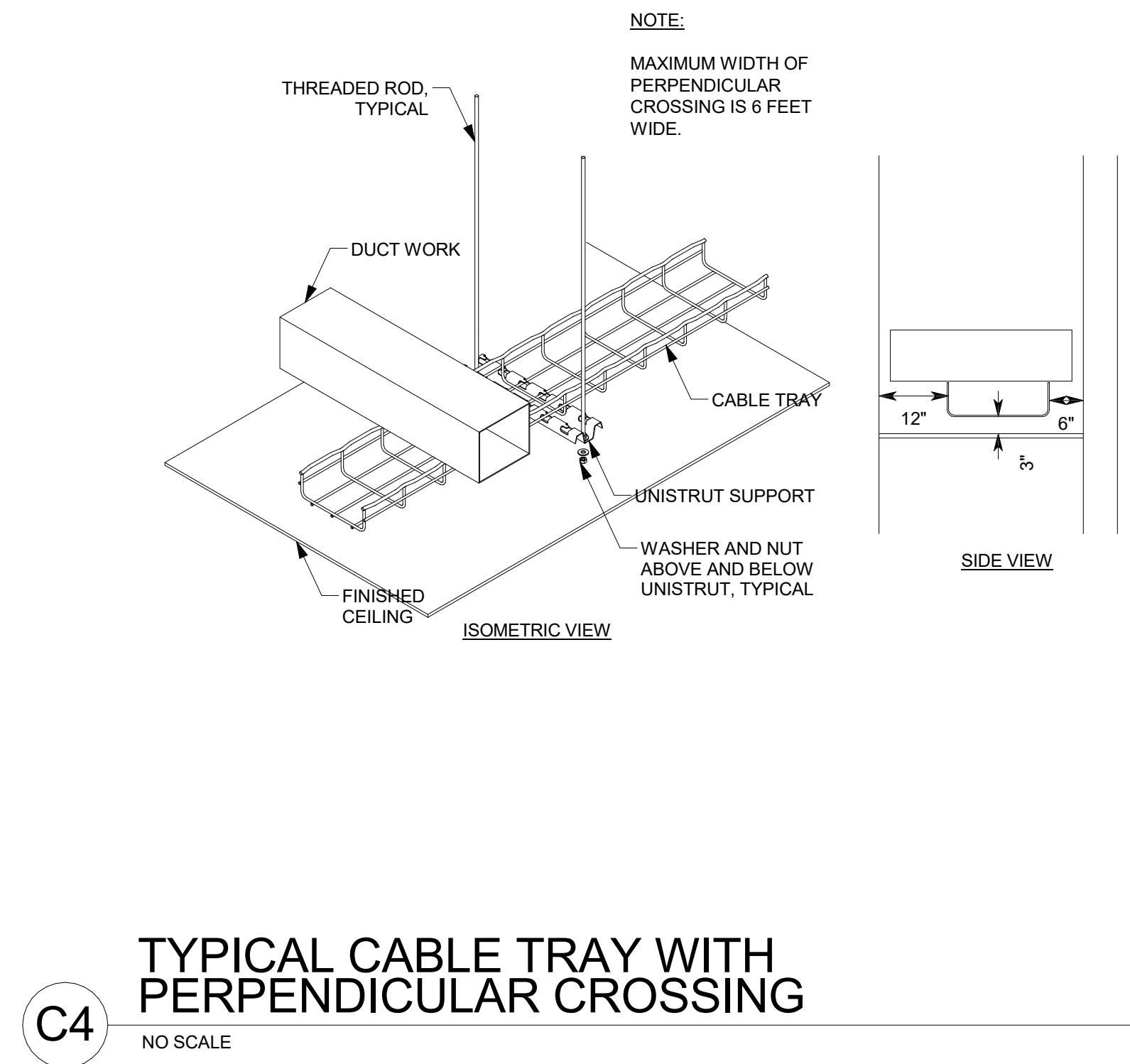
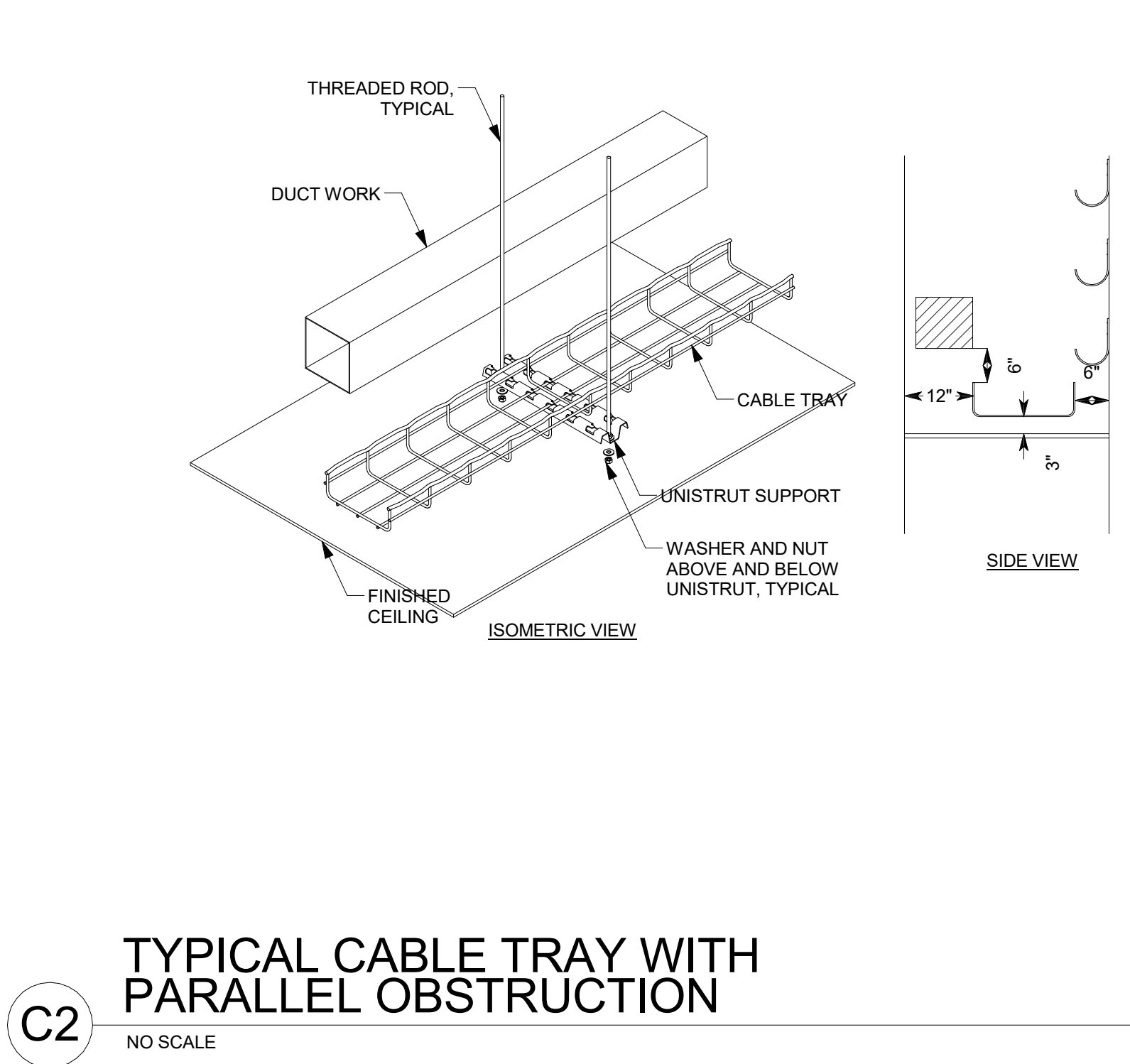
REVISIONS

MARK	DATE	DESCRIPTION
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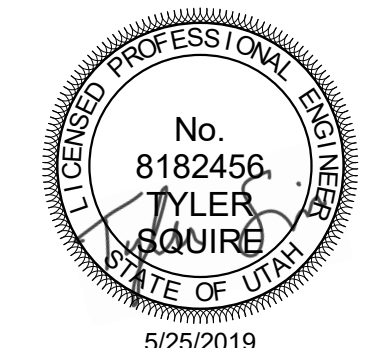
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 ISSUE TYPE: PERMIT
 DRAWN BY: SJT
 CHECKED BY: JDA
 PROJECT#: 1904.01

SHEET NUMBER:

ET505



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PROJECT DESCRIPTION
**KEY BANK TOWER
 LEVEL 10 AND 16 TI**

36 S STATE ST, SLC UT 84111
 AHJ STAMP

SHEET NAME:
TELECOM DETAILS

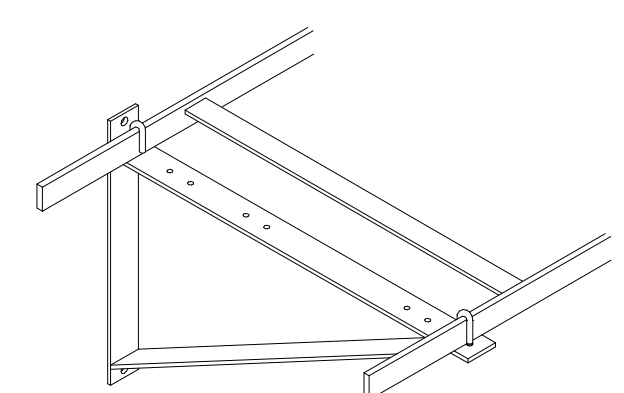
REVISIONS

MARK	DATE	DESCRIPTION

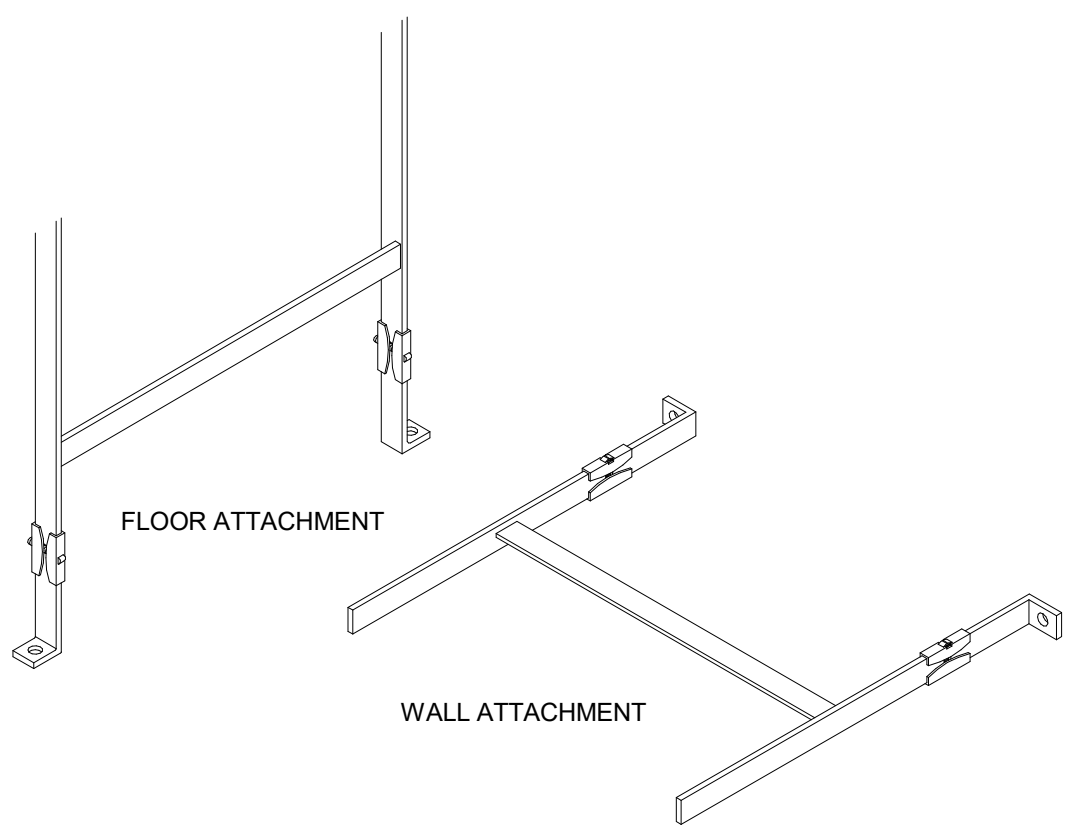
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 ISSUE TYPE: PERMIT
 DRAWN BY: SJT
 CHECKED BY: JDA
 PROJECT#: 1904.01

SHEET NUMBER:

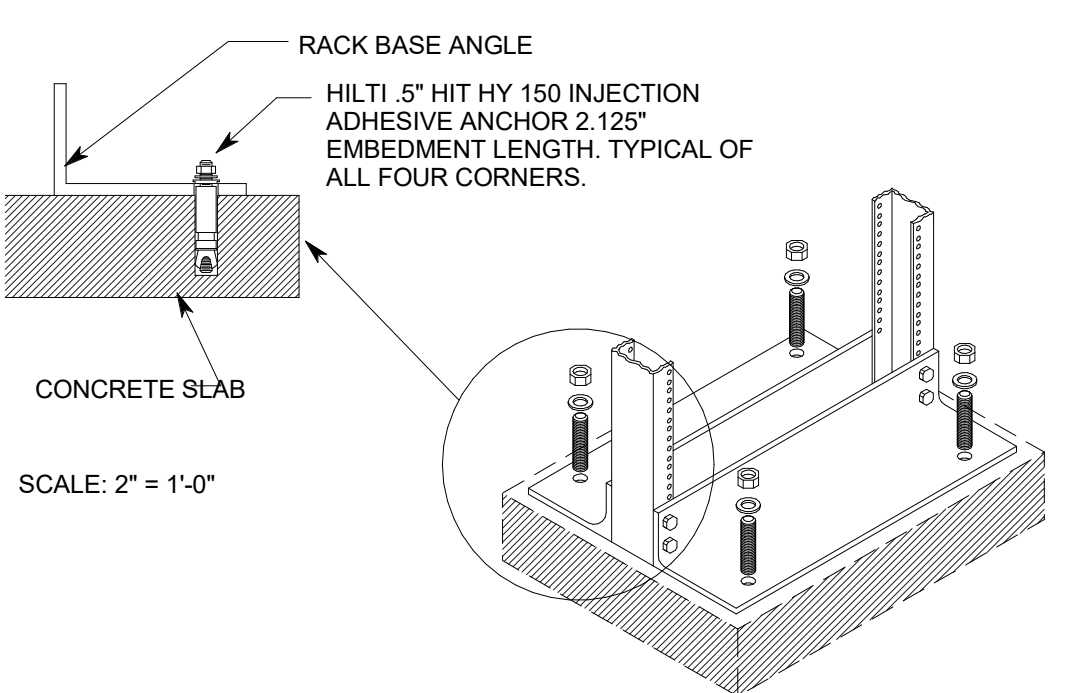
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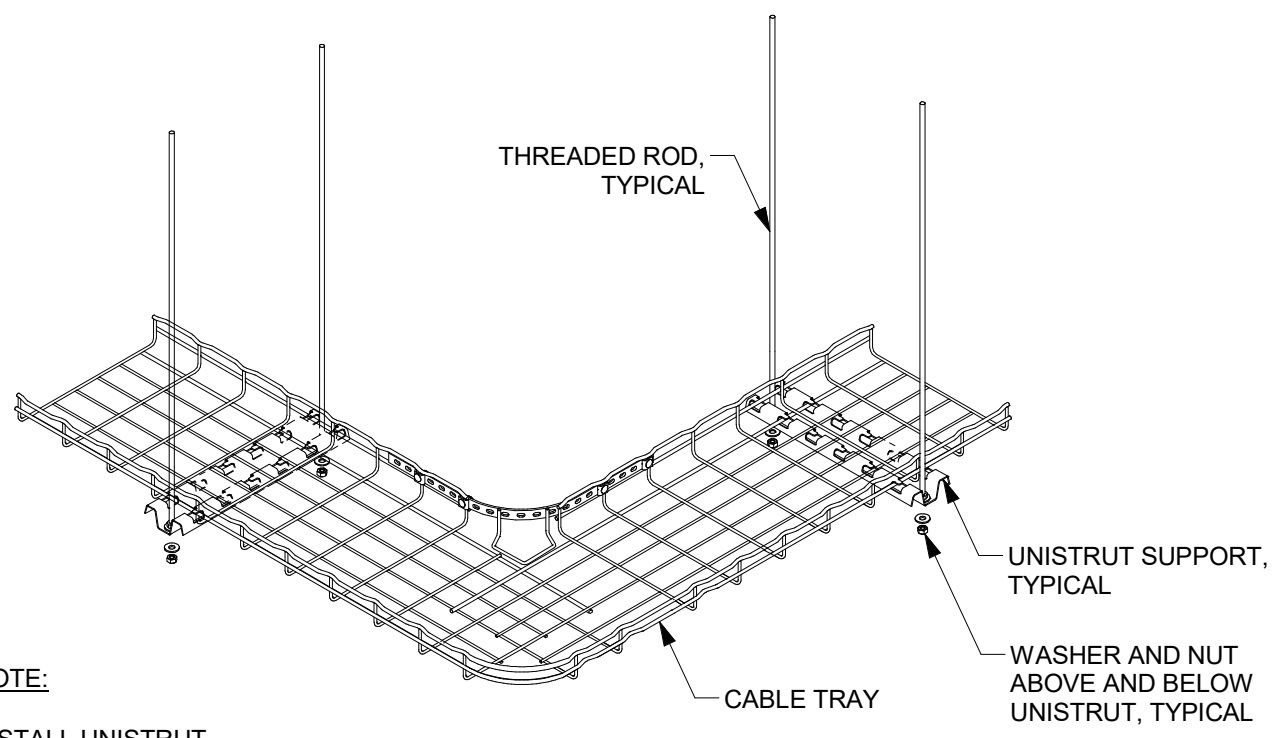
C1 TRIANGLE BRACKET DETAIL
 NO SCALE



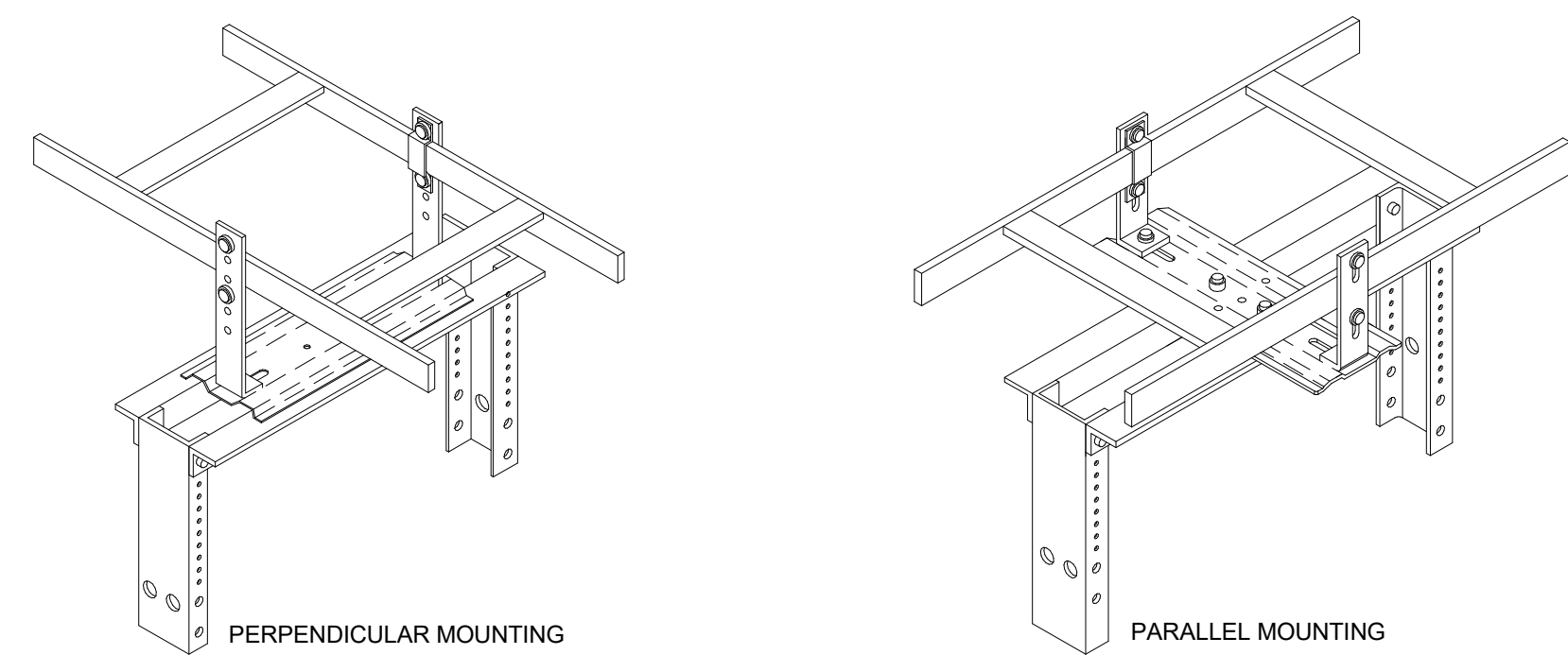
B1 FLOOR/WALL ATTACHMENT DETAIL
 NO SCALE



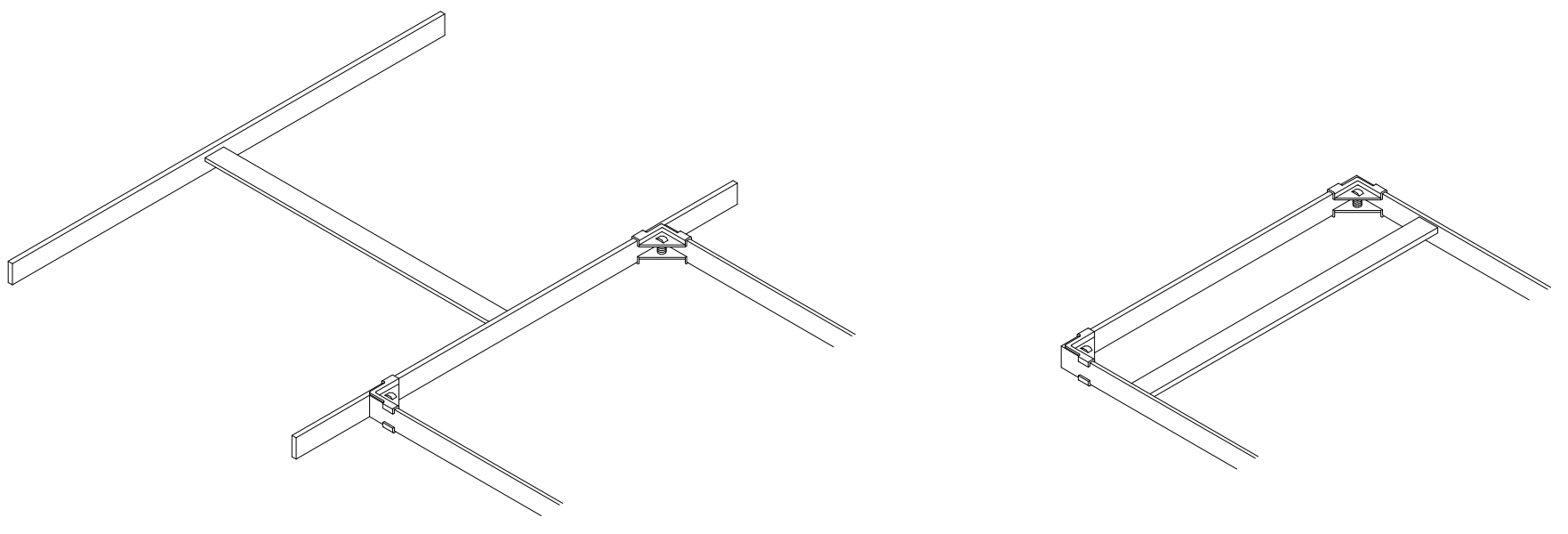
A1 EQUIPMENT RACK/
 ENCLOSED CABINET
 ANCHORAGE DETAIL
 NO SCALE



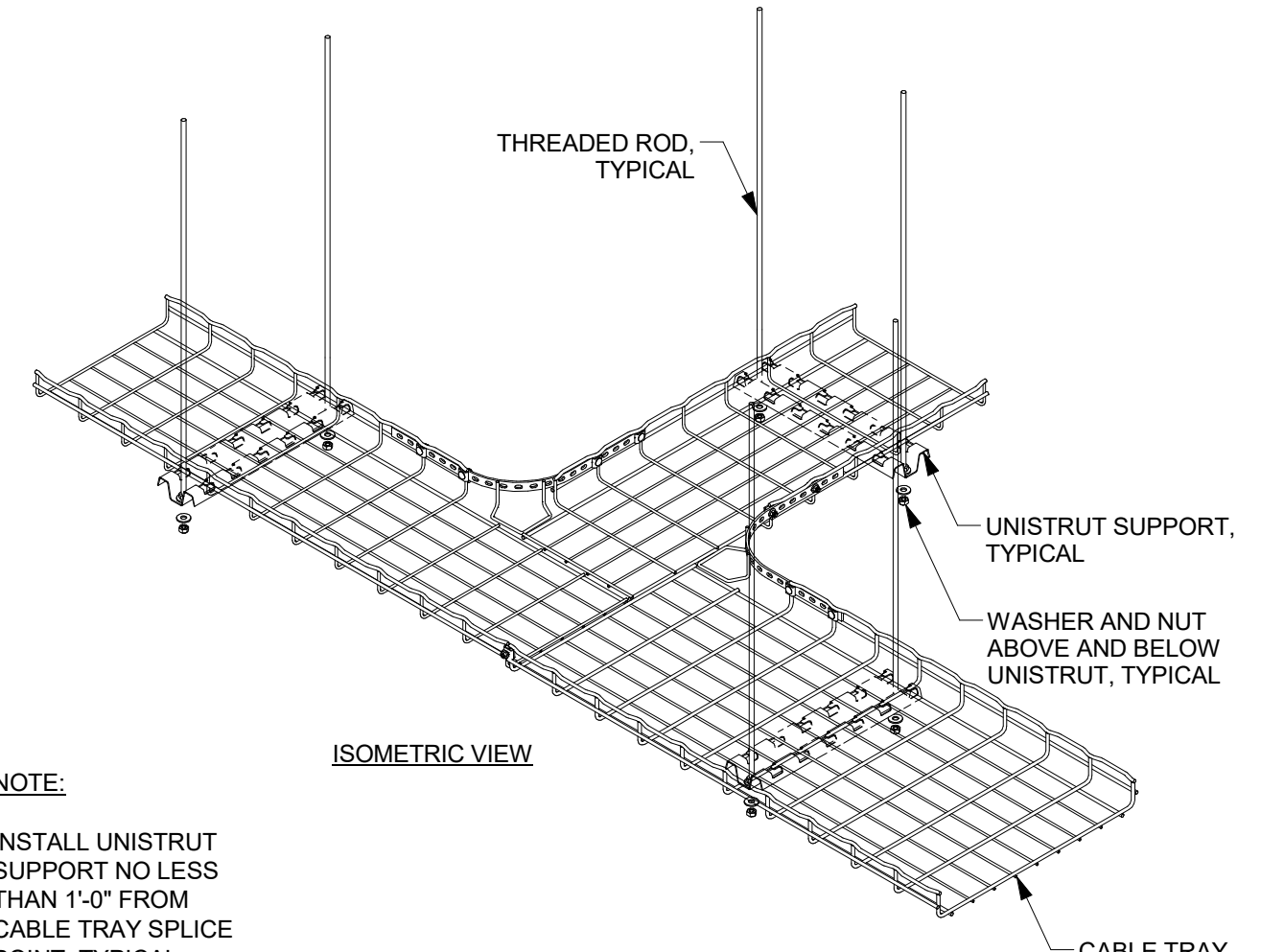
C2 CABLE TRAY 90 DEGREE
 BEND WITH SUPPORTS
 NO SCALE



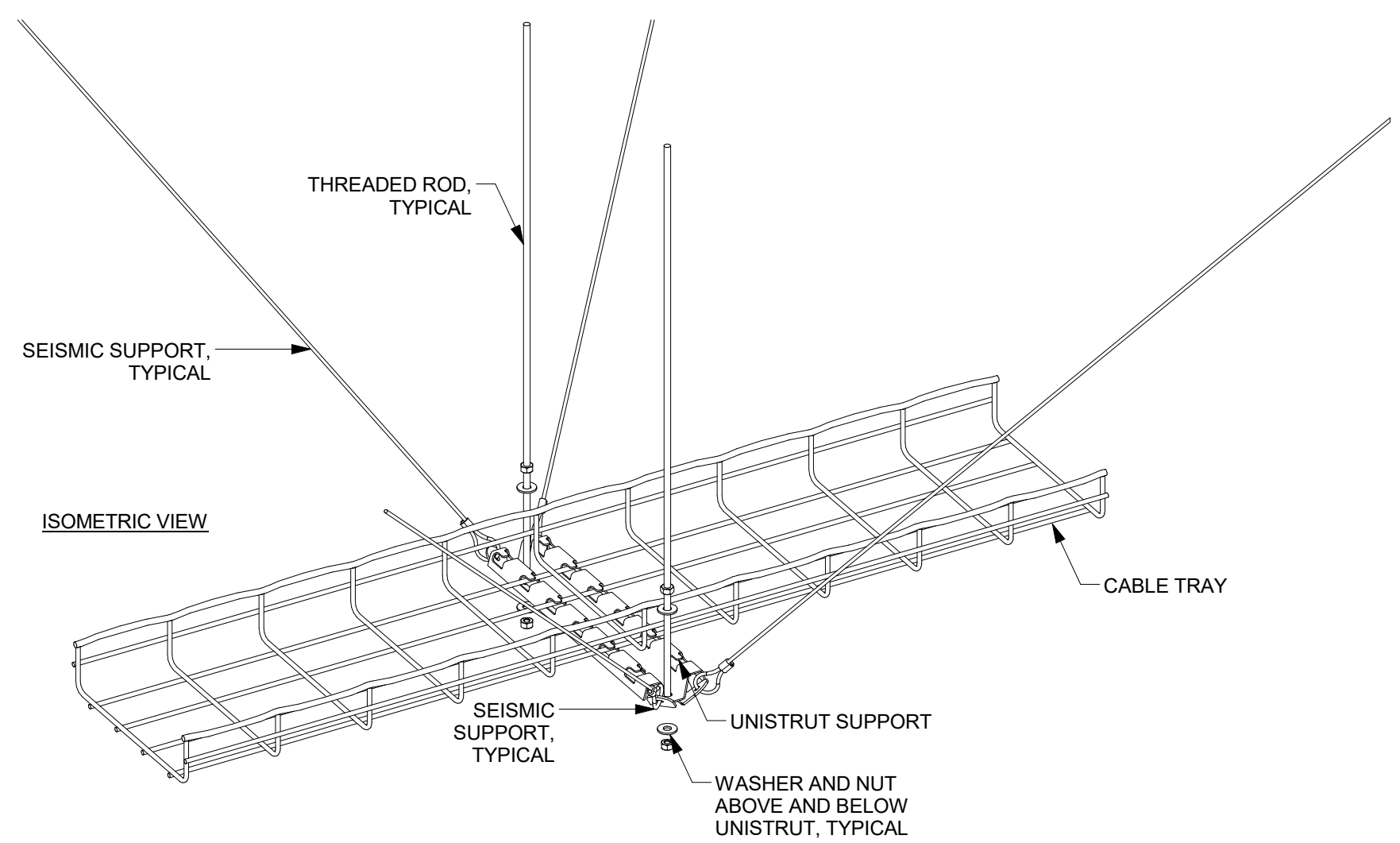
B2 6" CHANNEL RACK-TO-RUNWAY MOUNTING PLATE
 NO SCALE



A2 CABLE RUNWAY END/
 CLOSING SPLICE DETAIL
 NO SCALE



C4 CABLE TRAY INTERSECTION
 WITH SUPPORTS
 NO SCALE

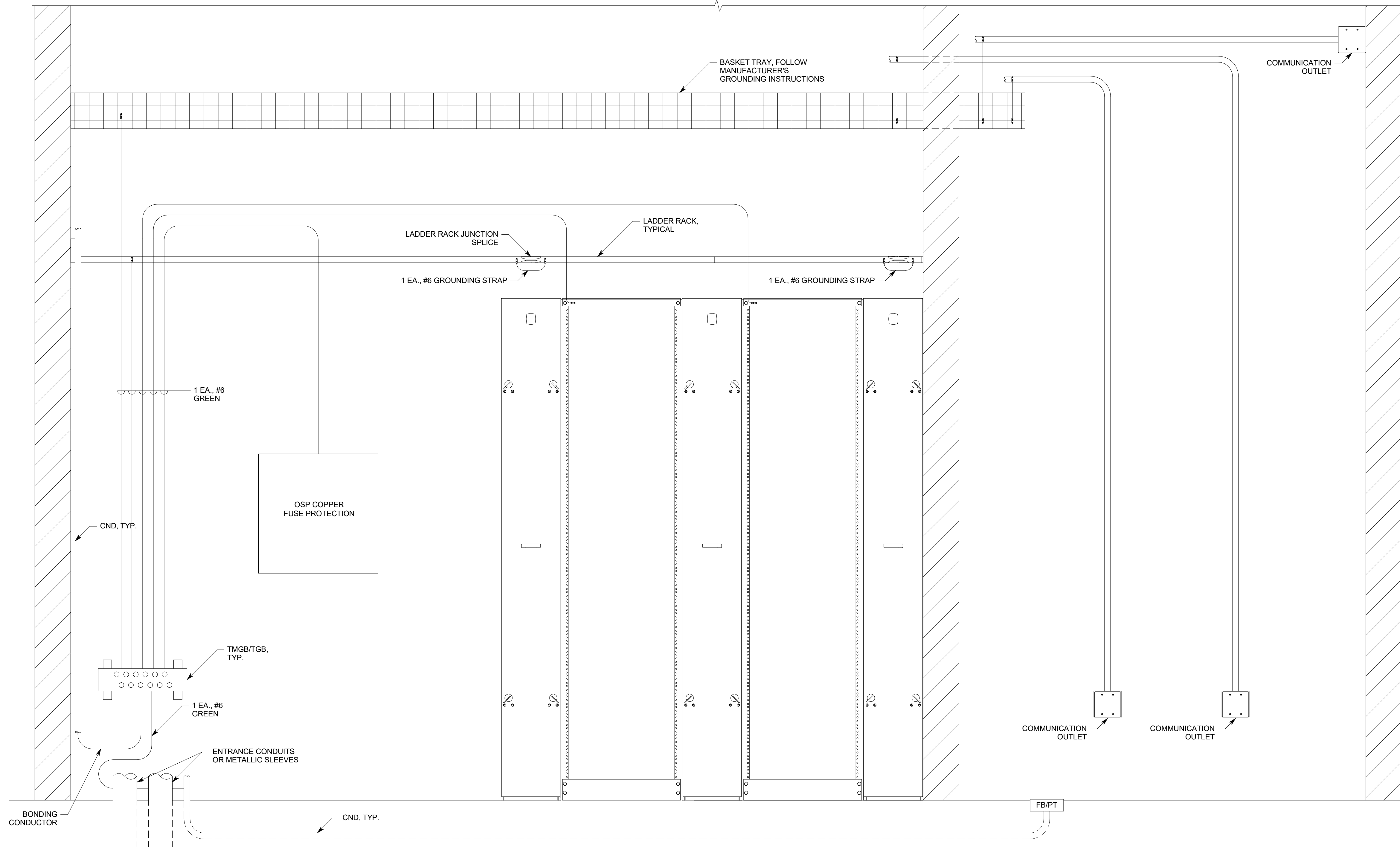


A4 CABLE TRAY WITH SEISMIC SUPPORTS
 NO SCALE

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GENERAL NOTES:

- ALL LOW VOLTAGE COMMUNICATIONS CONDUIT SHALL BE GROUNDED TO BASKET TRAY OR TELECOMMUNICATIONS GROUNDING BUS BAR.
- "TMGB" SHOULD BE 1/2"x4"x24". PANDUIT PART NUMBER GB481028TPI-1, OR EQUAL.
- "TGB" SHOULD BE 1/2"x2"x24". PANDUIT PART NUMBER GB280514TPI-1, OR EQUAL.
- EMT CONDUIT GROUNDING CLAMP SHOULD BE ELECTROLYTIC CAST BRONZE. PANDUIT PART NUMBER GPL-"X"-X", OR EQUAL.
- RIGID CONDUIT GROUND CLAMP SHOULD BE O-Z/GEDNEY BLG-XXXX, OR HBLG-XXXX, OR EQUAL.
- GROUNDING LUGS SHOULD BE TWO HOLE LONG BARREL LUGS. PANDUIT PART NUMBER LCC6, OR EQUAL.



A1 TYPICAL GROUNDING RISER DETAIL
NO SCALE



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PROJECT DESCRIPTION
**KEY BANK TOWER
 LEVEL 10 AND 16 TI**

36 S STATE ST, SLC UT 84111
 AHJ STAMP

SHEET NAME:
**TELECOM EQUIPMENT
 RACK GROUNDING
 DETAIL**

MARK	DATE	DESCRIPTION

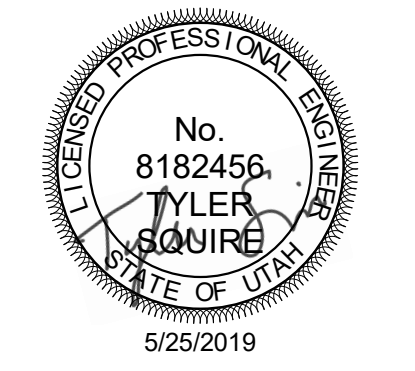
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 PROJECT#: 1904.01

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GENERAL SHEET NOTES

1. PROVIDE CABLE TRAYS ABOVE CEILINGS IN CORRIDORS LEADING TO THE TDR PER INTERMOUNTAIN HEALTHCARE STRUCTURED CABLING STANDARDS.



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PROJECT DESCRIPTION
KEY BANK TOWER
LEVEL 10 AND 16 TI

36 S STATE ST, SLC UT 84111
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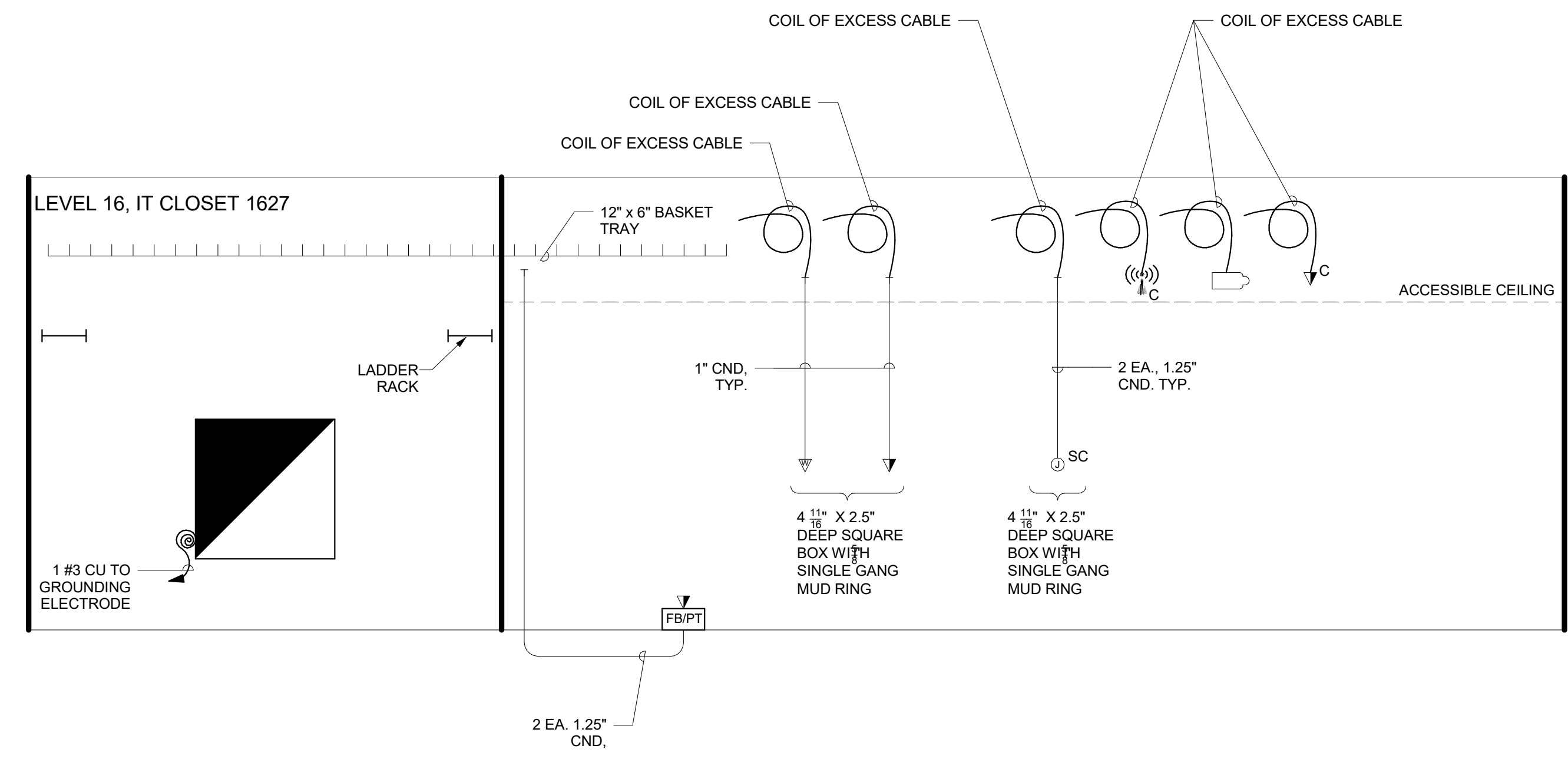
SHEET NAME:
TELECOM CONDUIT
RISER DIAGRAMS

REVISIONS	MARK	DATE	DESCRIPTION

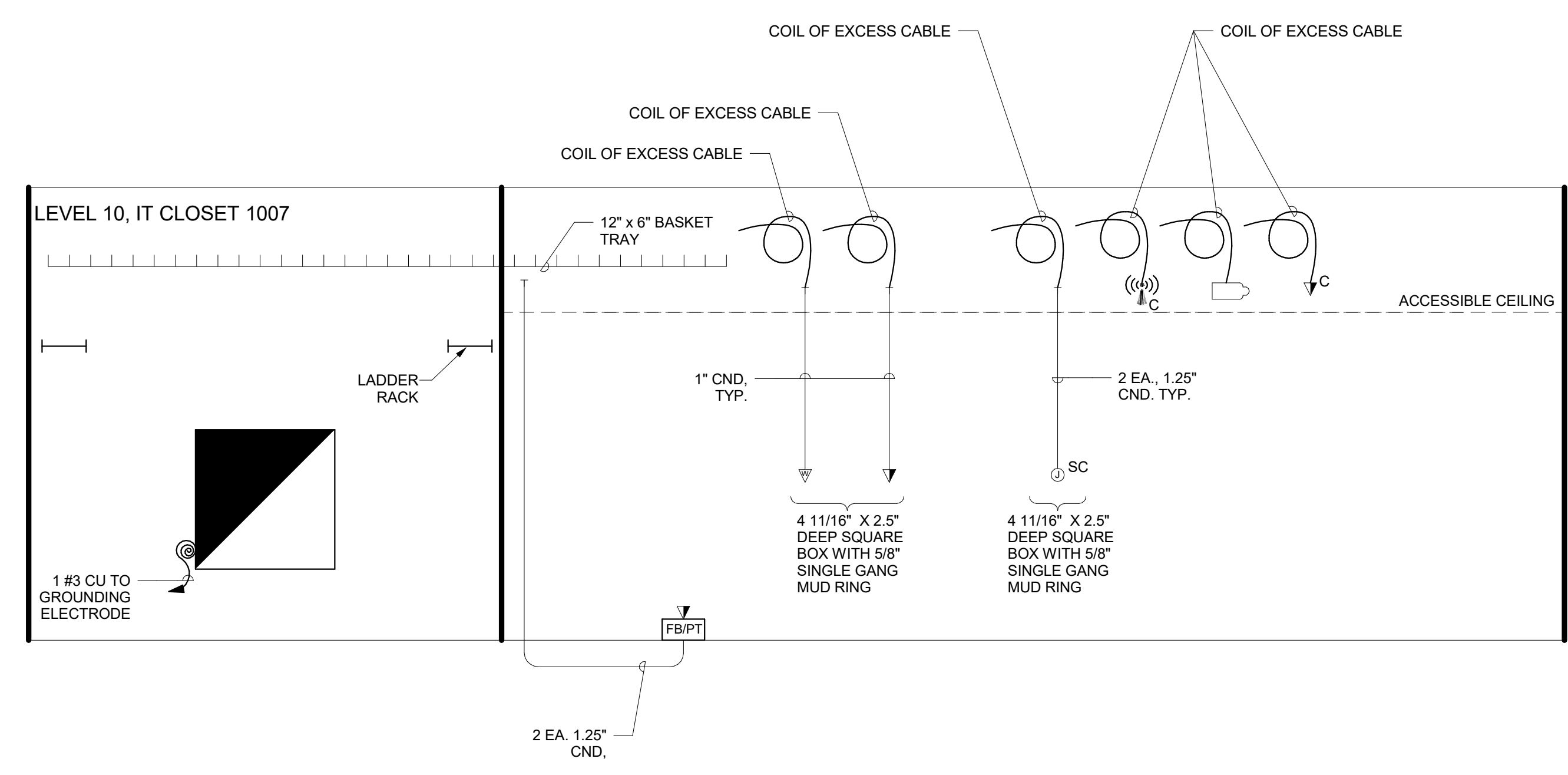
ISSUE DATE: 5/25/2019
 ISSUE TYPE: PERMIT
 DRAWN BY: SJT
 CHECKED BY: JDA
 PROJECT#: 1904.01

SHEET NUMBER:

ET601



C1 TELECOM CABLING CONDUIT RISER DIAGRAM (LEVEL 16)
 NO SCALE



A1 TELECOM CABLING CONDUIT RISER DIAGRAM (LEVEL 10)
 NO SCALE

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1

2

3

4

5

GENERAL SHEET NOTES

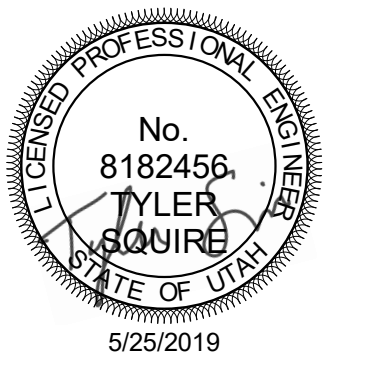
- PROVIDE CABLE TRAYS ABOVE CEILINGS IN CORRIDORS LEADING TO THE TDR PER INTERMOUNTAIN HEALTHCARE STRUCTURED CABLING STANDARDS.



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SHEET KEYNOTES

- EXTEND 50 PAIR CAT 3 PLENUM CABLE TO COMM CLOSET. TERMINATE 50 PAIR ON EXISTING 66 BLOCKS ON WALL. USE THE CABLE COUNT 1301-1350. TEST ALL COPPER PAIRS AFTER TERMINATION.
- EXTEND 12 STRAND PLENUM SINGLE-MODE CABLE TO COMM CLOSET. SPLICE TO EXISTING 12 STRAND SINGLE MODE FIBER THAT EXTENDS TO 9TH FLOOR DATA CENTER. TEST ALL FIBER AFTER SPLICING AND TERMINATION.



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PROJECT DESCRIPTION

KEY BANK TOWER LEVEL 10 AND 16 TI

36 S STATE ST, SLC UT 84111

AHJ STAMP

SHEET NAME:

TELECOM CABLE RISER DIAGRAMS

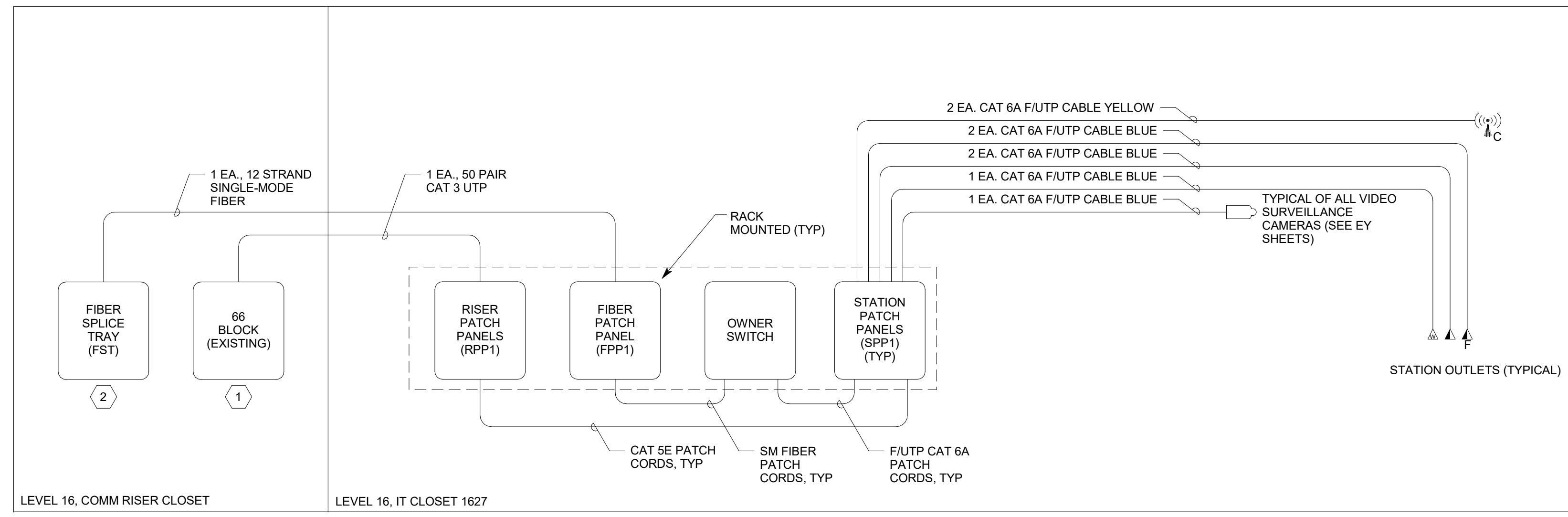
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MARK	DATE	DESCRIPTION
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ISSUE DATE: 5/25/2019
 ISSUE TYPE: PERMIT
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SHEET NUMBER:

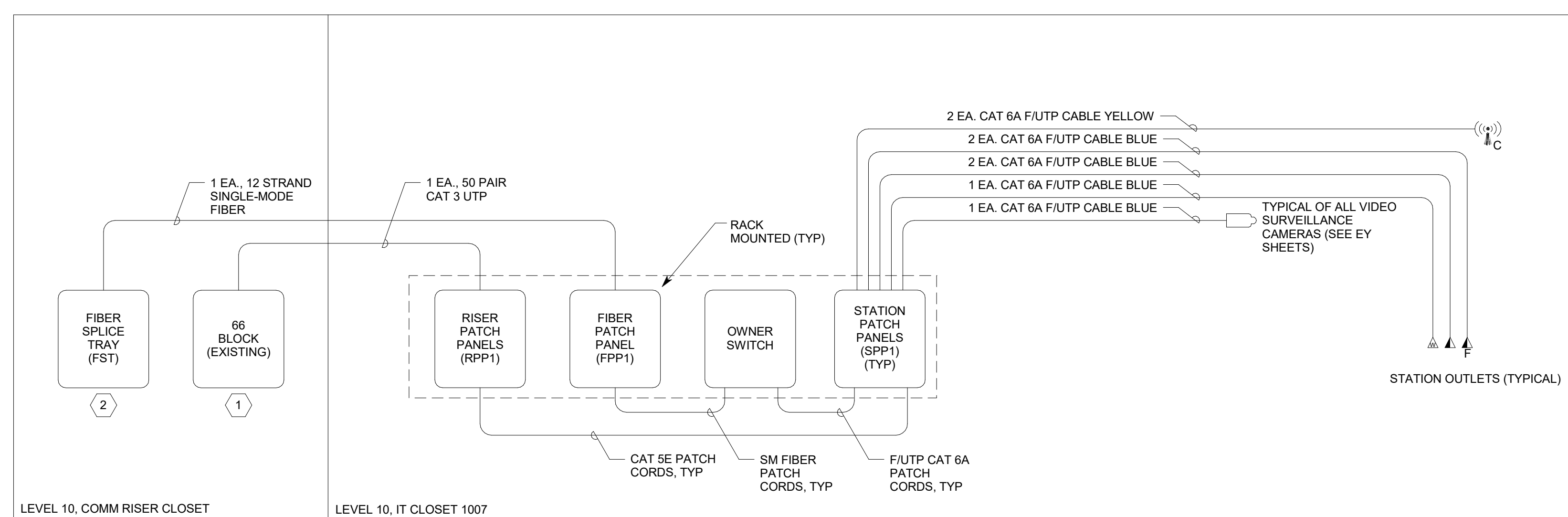
ET602



C1

TELECOM CABLING RISER DIAGRAM (LEVEL 16)

NO SCALE



A1

TELECOM CABLING RISER DIAGRAM (LEVEL 10)

NO SCALE

1

2

3


4

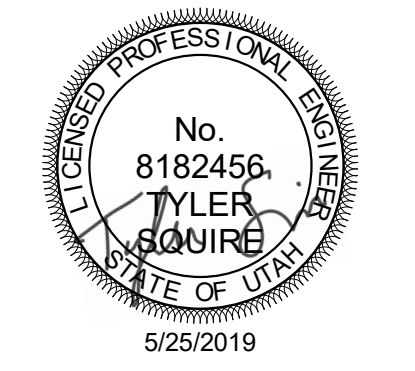
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4 SHEET KEYNOTES	

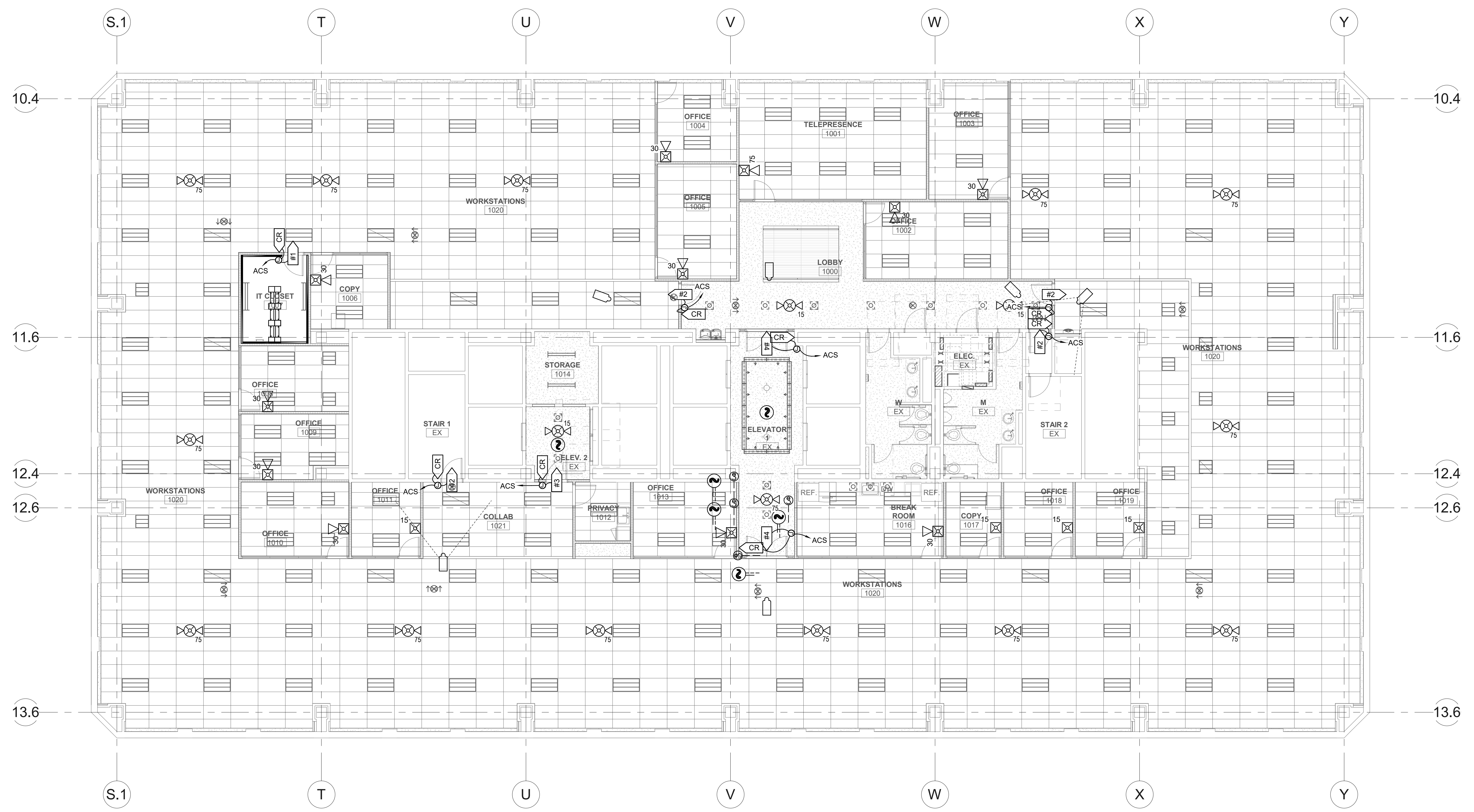
5 GENERAL SHEET NOTES	
	1 LOCATE CARD READERS. COORDINATE WITH ARCHITECTURAL PLANS. CONNECT EXISTING CARD READERS IN STAIRS TO NEW DOOR HARDWARE. 2 COORDINATE WITH ARCHITECT FOR FIRE RATED CONSTRUCTION 3 PROVIDE CLASS A FIRE ALARM SYSTEM. 4 THE EXISTING CORE WALLS AND SHAFTS ARE FIRE RATED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. 5 REFER TO THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL ON SHEET EE702 FOR ADDITIONAL REQUIREMENTS REGARDING DEVICE LOCATIONS.


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PROJECT DESCRIPTION
**KEY BANK TOWER
 LEVEL 10 AND 16 TI**

36 S STATE ST, SLC UT 84111
 AHJ STAMP

SHEET NAME:
**LEVEL 10 AUXILIARY
 PLAN**

REVISIONS		
MARK	DATE	DESCRIPTION

ISSUE DATE: 5/25/2019
 ISSUE TYPE: PERMIT
 DRAWN BY: DBS
 CHECKED BY: TDS
 PROJECT#: 1904.01

SHEET NUMBER:


(A1) LEVEL 10 AUXILIARY PLAN
 SCALE: 1/8" = 1'-0"

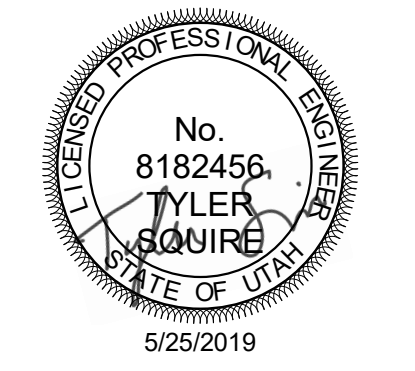
EY110

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4	
SHEET KEYNOTES	
1	ACCESS CONTROL SYSTEM SHALL BE RACK MOUNTED EQUIPMENT.
2	VIDEO SURVEILLANCE CAMERA CABLING SHALL BE TERMINATED ON A RACK MOUNTED PATCH PANEL. COORDINATE EXACT LOCATION WITH OWNER I.T.
3	CIRCUIT TO EXISTING 120V EMERGENCY CIRCUIT PREVIOUSLY FEEDING FIRE/SMOKE DAMPERS ON THIS FLOOR.

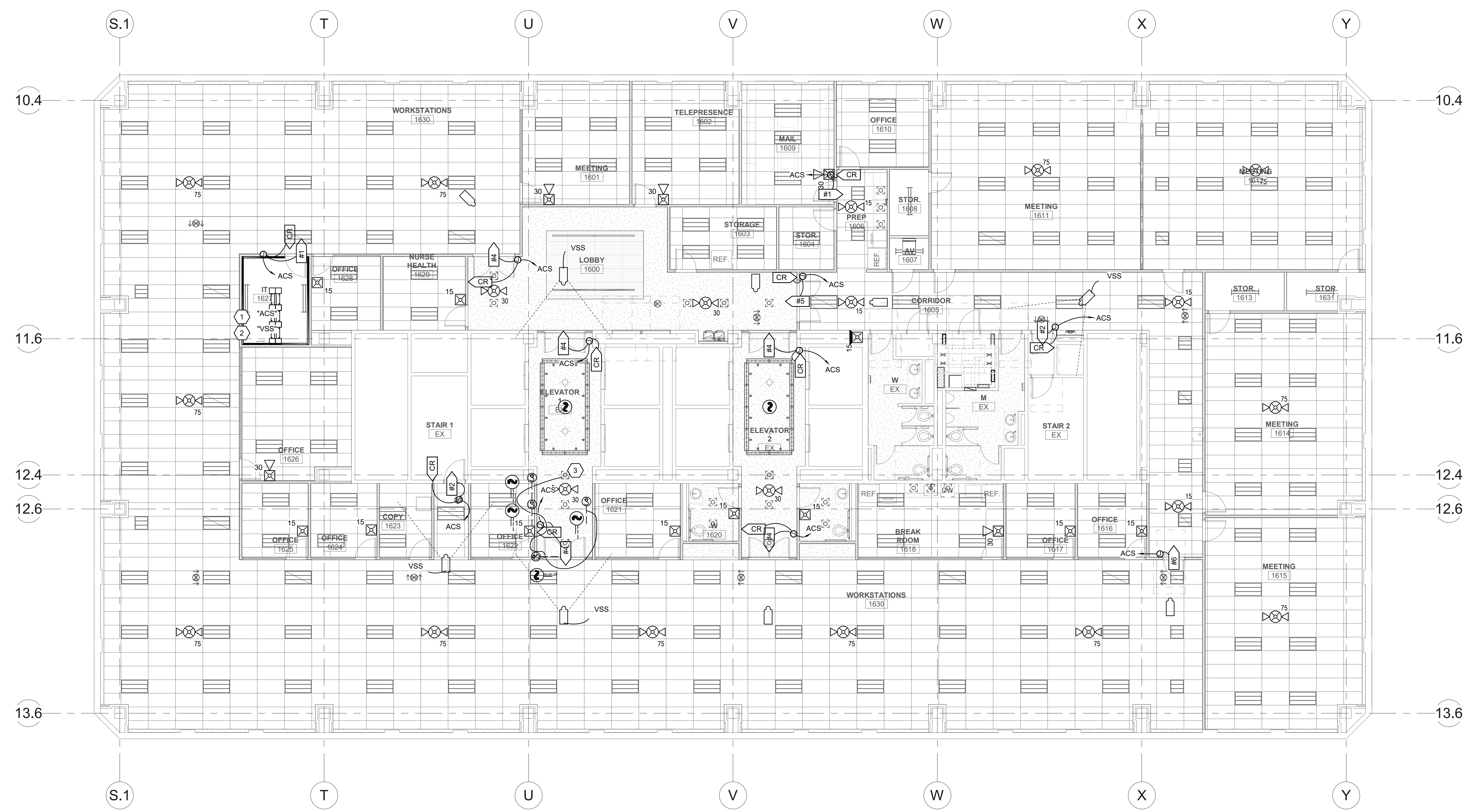
5	
GENERAL SHEET NOTES	
1	LOCATE CARD READERS. COORDINATE WITH ARCHITECTURAL PLANS. CONNECT EXISTING CARD READERS IN STAIRS TO NEW DOOR HARDWARE.
2	COORDINATE WITH ARCHITECT FOR FIRE RATED CONSTRUCTION
3	PROVIDE CLASS A FIRE ALARM SYSTEM.
4	THE EXISTING CORE WALLS AND SHAFTS ARE FIRE RATED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
5	REFER TO THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL ON SHEET EE702 FOR ADDITIONAL REQUIREMENTS REGARDING DEVICE LOCATIONS.


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PROJECT DESCRIPTION
**KEY BANK TOWER
 LEVEL 10 AND 16 TI**

36 S STATE ST, SLC UT 84111
 AHJ STAMP

SHEET NAME:
**LEVEL 16 AUXILIARY
 PLAN**

REVISIONS
 MARK DATE DESCRIPTION

ISSUE DATE: 5/25/2019
 ISSUE TYPE: PERMIT
 DRAWN BY: DBS
 CHECKED BY: TDS
 PROJECT#: 1904.01

SHEET NUMBER:

(A1) LEVEL 16 AUXILIARY PLAN
 SCALE: 1/8" = 1'-0"

EY116

NOTES

1. PROVIDE RACEWAY AND EQUIPMENT AS INDICATED FOR CARD ACCESS DOOR TYPE INDICATED. REFER TO SECTION 281300 AND CARD ACCESS LOCK CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE CONCEALED .75" C TYPICAL FOR LINES SHOWN TO DEVICE BOXES ON PROTECTED SIDE AND UNPROTECTED SIDE ELEVATIONS.
3. CONFIRM CORRECT CARD ACCESS DOOR RACEWAY, LOCK VOLTAGE, AND EXIT SWITCH CURRENT RATING (2 AMPS MIN.) WITH DIV. 8 FURNISHED CARD ACCESS DOOR HARDWARE PER DIV. 8 DOOR HARDWARE SPECIFICATIONS.
4. LOCATE CARD READER BOX AS INDICATED ON FLOOR PLANS. RACEWAY AND BOXES BY DIV. 26. REFER TO 281300 FOR CARD ACCESS SYSTEM REQUIREMENTS.
5. DOUBLE 4SQ J-BOX ON PROTECTED SIDE OF DOORWAY (SIDE OPPOSITE OF CARD READER) ABOVE ACCESSIBLE CEILING OR IN OTHER ACCESSIBLE LOCATION. PROVIDE COVER FOR J-BOX.
6. ELECTRIC LOCKING HARDWARE (MAG LOCKS, ELECTRIC STRIKES, POWER TRANSFER HINGES, ETC.) BY DIV 8. REVIEW DOOR HARDWARE FURNISHED AND VERIFY LOCK VOLTAGES AND OPERATIONAL FUNCTIONALITY OF LOCKS. CONTACT ENGINEER WITH QUESTIONS OR CONCERNS.

ABBREVIATIONS

DBL	=	DOUBLE
DIR	=	DIRECTION
HDWR	=	HARDWARE
C	=	CONDUIT
4SQ	=	FOUR SQUARE
W/	=	WITH
1G	=	1 GANG
PWR	=	POWER
ACC	=	ACCESSIBLE
OCC	=	OCCUPANCY
TYP	=	TYPICAL
L/PS	=	LOCK POWER SUPPLY
CR	=	CARD READER
CI	=	DOOR CONTACT INDICATOR
EPT	=	ELECTRIC POWER TRANSFER
ES	=	ELECTRIC STRIKE
ED	=	EXIT DEVICE
ML	=	ELECTROMAGNETIC LOCK
KS	=	KEY SWITCH
ACS	=	ACCESS CONTROL SYSTEM
EL	=	ELECTRIC LOCKSET
MD	=	MOTION DETECTOR
TLC	=	TIME/SYSTEM LOCK CONTROL
ELC	=	EMERGENCY LOCK CONTROL
IDS	=	INTRUSION DETECTION SYSTEM
ADA	=	AUTO DOOR OPENER
REX	=	REQUEST TO EXIT
FA	=	FIRE ALARM SYSTEM
OFP	=	OBTAIN FROM PLANS
A/R	=	AS REQUIRED
EED	=	ELECTRIC EXIT DEVICE (SEE SECTION 87100)
AEL	=	ACCESS ELECTRIC LOCKSET (SEE SECTION 87100)
FH	=	FRAME HARNESS
DH	=	DOOR HARNESS
EH	=	ELECTRIC HINGE
LA	=	ELECTROLYNX ADAPTOR
CNT	=	CONTROLLER
HO	=	ELECTROMAGNETIC HOLDER
PTE	=	PUSH TO EXIT BUTTON (MAGLOCK)
RTO	=	REQUEST TO OPEN

CARD ACCESS DOOR TYPE SCHEDULE

DOOR TYPE #	SYMBOL	DESCRIPTION	PROTECTED SIDE ELEVATION	UNPROTECTED SIDE ELEVATION	LOCK TYPE(S)	DIVISION OF WORK AND COMMENTS
TYPE 1		SINGLE DOOR, 1 CARD READER (FREE EGRESS)			ELECTRIC STRIKE W/LOCKSET	SECURITY CONTRACTOR PROVIDES: • CR, LPS, CI, MD HARDWARE CONTRACTOR PROVIDES: • ES LOCK CONTROLLED BY: • CR
TYPE 2		SINGLE DOOR, 1 CARD READER (FREE EGRESS)			ELECTRIC EXIT DEVICE	SECURITY CONTRACTOR PROVIDES: • CR, LPS, CI HARDWARE CONTRACTOR PROVIDES: • EED, EPT LOCK CONTROLLED BY: • CR, FA
TYPE 3		SINGLE DOOR, 1 CARD READER W/ AUTO OPENER			ELECTRIC STRIKE WITH EXIT DEVICE	SECURITY CONTRACTOR PROVIDES: • CR, LPS, CI HARDWARE CONTRACTOR PROVIDES: • FH, EL LOCK CONTROLLED BY: • CR
TYPE 4		DOUBLE DOOR, 1 CARD READER W/ AUTO OPENER			ELECTRIC EXIT DEVICE	SECURITY CONTRACTOR PROVIDES: • CR, CI, LPS HARDWARE CONTRACTOR PROVIDES: • EED, EPT LOCK CONTROLLED BY: • CR, ADA, RTO, TLC
TYPE 5		DOUBLE DOOR, 1 CARD READER			ELECTRIC LOCKSET	SECURITY CONTRACTOR PROVIDES: • CR, CI, LPS HARDWARE CONTRACTOR PROVIDES: • EL, EPT LOCK CONTROLLED BY: • CR

TYPE #	SYMBOL	DESCRIPTION	PROTECTED SIDE ELEVATION	UNPROTECTED SIDE ELEVATION	LOCK TYPE(S)	DIVISION OF WORK AND COMMENTS
TYPE 6		SINGLE DOOR, ALARMED (FREE EGRESS)			ELECTRIC EXIT DEVICE	SECURITY CONTRACTOR PROVIDES: • LPS, CI HARDWARE CONTRACTOR PROVIDES: • EED, EPT LOCK CONTROLLED BY: • FA

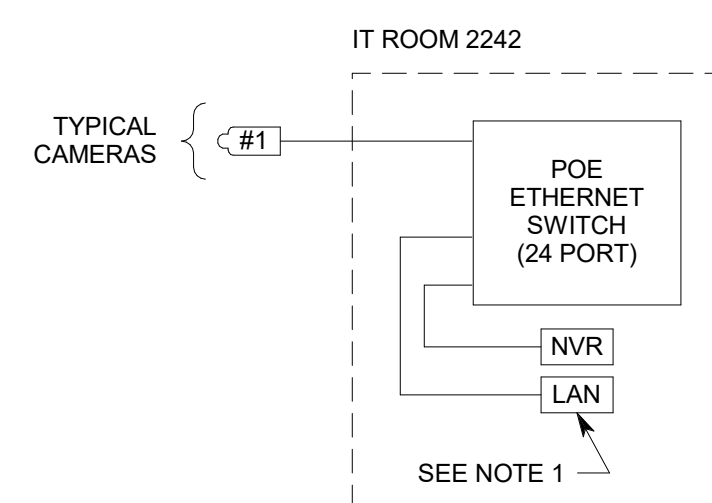
VSS CAMERA SCHEDULE

TYPE	INTERIOR (INT)/ EXTERIOR (EXT)	DESCRIPTION	AXIS MODEL #
1	INT	FIXED DOME, VARIFOVAL, CEILING MOUNT	P3374

SECURITY EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING *	ROUGH-IN	QTY	ACCEPTABLE TYPES
CR	CARD READER	40"	4SQ W/ 1G RING	OFP	SEE SECTION 281300
#1	CARD ACCESS DOOR TYPE, TYPICAL. REFER TO CARD ACCESS DOOR TYPE SCHEDULE.	SEE SCHEDULE	SEE SCHEDULE	OFP	REFER TO CARD ACCESS DOOR TYPE SCHEDULE & SECTION 281300
#1	VSS CAMERA/ENCLOSURE TYPE, TYPICAL. REFER TO VSS CAMERA/ENCLOSURE TYPE SCHEDULE.	SEE SCHEDULE	SEE SCHEDULE	OFP	SEE VSS CAMERA/ENCLOSURE TYPE SCHEDULE
ACS	CARD ACCESS CONTROLLERS & PWR SUPPLIES	72"	4"x4" GUTTER & STUBS A/R	A/R	SEE SECTION 281300

* COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS BEFORE INSTALLATION.

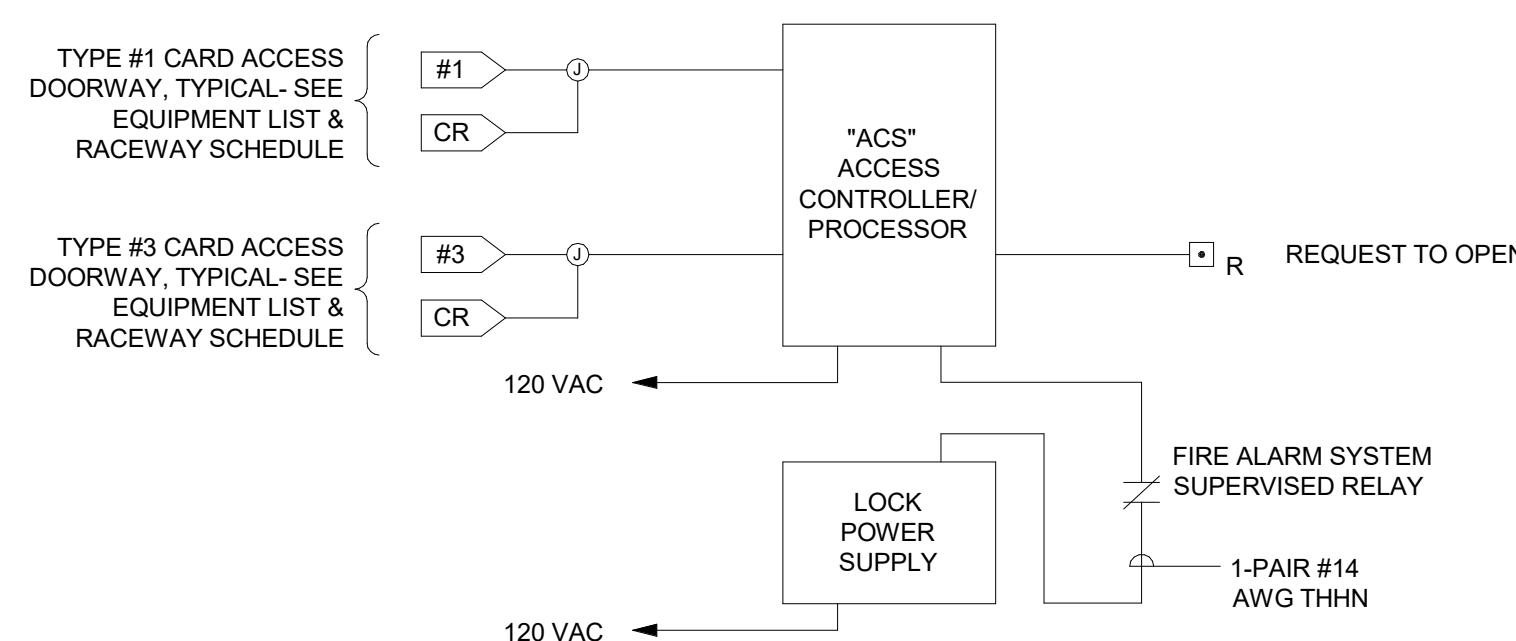


NOTES:

1. IP CONNECTION TO BUILDING LAN SHALL BE DETERMINED BY OWNER. (REQUIRED FOR REMOTE VIEWING OF CAMERAS ON OTHER PCS.)

VIDEO SURVEILLANCE SYSTEM (VSS) RISER DIAGRAM

NO SCALE



NOTES:

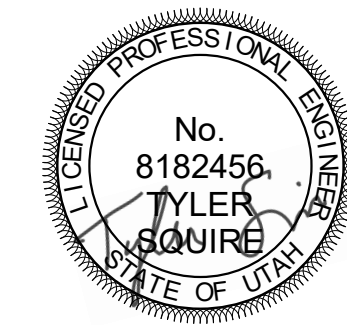
1. ACCESS CONTROL SYSTEM BASED UPON MULTIPLE CARD READERS PER ACCESS CONTROLLER/PROCESSOR. ALTERNATE CONFIGURATIONS ACCEPTABLE PROVIDED CONTRACTOR ALLOWS FOR ANY INCREASED WIRING OR EQUIPMENT AND PROVIDES SUBMITTAL DRAWINGS SHOWING NEW CONFIGURATION.
2. ACCESS CONTROLLER "ACS" INDICATED SHALL INCLUDE ANY ISOLATION MODULES, BUFFER MODULES, EXTERNAL POWER SUPPLIES, INPUT/OUTPUT MODULES, OR FORMAT CONVERTER MODULES (NOT SHOWN) REQUIRED TO SUPPORT CARD READER OR KEYPAD TYPES INDICATED, FOR COMPLETE AND FUNCTIONING CARD READER AND DOOR CONTROL.
3. PROVIDE SEPARATE WIRE PAIRS FOR REQUEST TO EXIT AND DOOR CONTACT INDICATOR, FROM ACCESS DOOR TO ACCESS CONTROLLER "ACS" PANEL. SINGLE PAIR, FROM ACCESS DOOR TO CONTROLLER PANEL, FOR REQUEST TO EXIT AND DOOR CONTACT INDICATOR, NOT ACCEPTABLE.
4. REQUEST TO EXIT AND DOOR CONTACT INDICATOR CIRCUITS SHALL BE SUPERVISED FOR OPEN CIRCUIT OR SHORT CIRCUIT FAULTS BETWEEN THE DEVICE CONTACTS AND ACCESS CONTROLLER.

ACCESS CONTROL SYSTEM (ACS) DIAGRAM

NO SCALE



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PROJECT DESCRIPTION

KEY BANK TOWER
LEVEL 10 AND 16 TI

36 S STATE ST, SLC UT 84111

AHJ STAMP

SHEET NAME:

AUXILIARY RISER
DIAGRAMS

REVISIONS

MARK	DATE	DESCRIPTION

ISSUE DATE: 5/25/2019

ISSUE TYPE: PERMIT

DRAWN BY: DBS

CHECKED BY: TDS

PROJECT#: 1904.01

SHEET NUMBER:

EY601

5/24/2019 6:33:53 PM E:\Autodesk\2019\20190118 Elec Central.tds_spectrum-engineers_com.rvt
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 INAPPROPRIATE IN VIOLATION OF 12-282-31-1ET, SEC. AND OTHER LAWS.

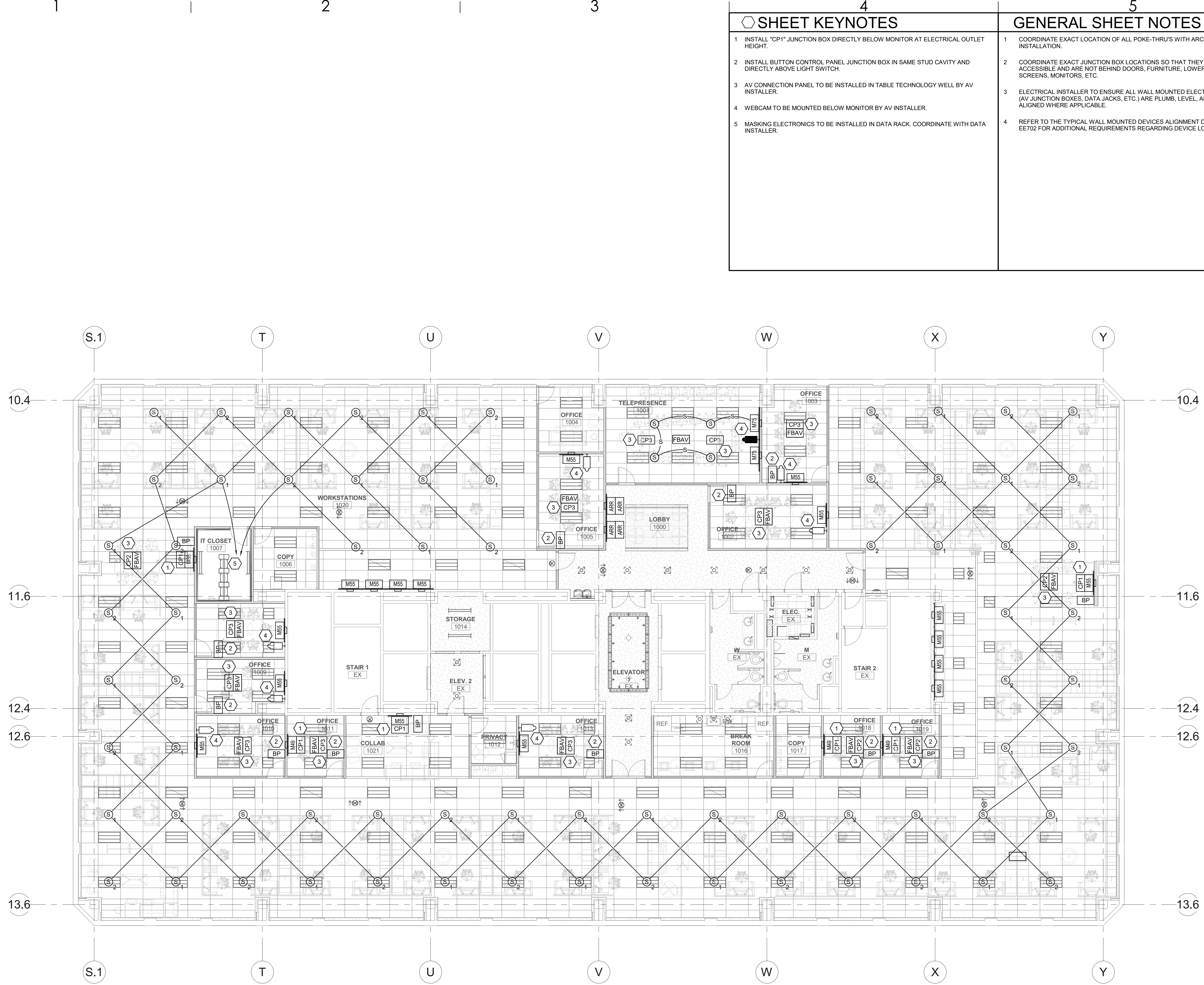
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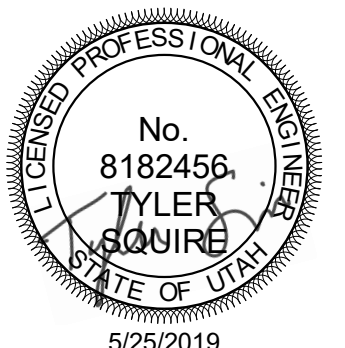


SHEET KEYNOTES	
1	INSTALL "CP1" JUNCTION BOX DIRECTLY BELOW MONITOR AT ELECTRICAL OUTLET HEIGHT.
2	INSTALL BUTTON CONTROL PANEL JUNCTION BOX IN SAME STUD CAVITY AND DIRECTLY ABOVE LIGHT SWITCH.
3	AV CONNECTION PANEL TO BE INSTALLED IN TABLE TECHNOLOGY WELL BY AV INSTALLER.
4	WEBCAM TO BE MOUNTED BELOW MONITOR BY AV INSTALLER.
5	MASKING ELECTRONICS TO BE INSTALLED IN DATA RACK. COORDINATE WITH DATA INSTALLER.

GENERAL SHEET NOTES	
1	COORDINATE EXACT LOCATION OF ALL POKE-THRU'S WITH ARCHITECT PRIOR TO INSTALLATION.
2	COORDINATE EXACT JUNCTION BOX LOCATIONS SO THAT THEY ARE EASILY ACCESSIBLE AND ARE NOT BEHIND DOORS, FURNITURE, LOWERED PROJECTION SCREENS, MONITORS, ETC.
3	ELECTRICAL INSTALLER TO ENSURE ALL WALL MOUNTED ELECTRICAL DEVICES (AV JUNCTION BOXES, DATA JACKS, ETC.) ARE PLUMB, LEVEL, AND VERTICALLY ALIGNED WHERE APPLICABLE.
4	REFER TO THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL ON SHEET EE702 FOR ADDITIONAL REQUIREMENTS REGARDING DEVICE LOCATIONS.



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PROJECT DESCRIPTION
**KEY BANK TOWER
LEVEL 10 AND 16 TI**

36 S STATE ST, SLC UT 84111
AHJ STAMP

SHEET NAME:
**LEVEL 10 AUDIO-VIDEO
ROUGH-IN PLAN**

REVISIONS		
MARK	DATE	DESCRIPTION

ISSUE DATE: 5/25/2019
ISSUE TYPE: PERMIT
DRAWN BY: Author
CHECKED BY: Checker
PROJECT#: 1904.01

SHEET NUMBER:

A1 LEVEL 10 AUDIO-VIDEO ROUGH-IN PLAN
SCALE: 1/8" = 1'-0"

EJ110

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SHEET KEYNOTES	
1	INSTALL "CP1" JUNCTION BOX DIRECTLY BELOW MONITOR AT ELECTRICAL OUTLET HEIGHT.
2	INSTALL BUTTON CONTROL PANEL JUNCTION BOX IN SAME STUD CAVITY AND DIRECTLY ABOVE LIGHT SWITCH.
3	AV CONNECTION PANEL TO BE INSTALLED IN TABLE TECHNOLOGY WELL BY AV INSTALLER.
4	MASKING ELECTRONICS TO BE INSTALLED IN DATA RACK. COORDINATE WITH DATA INSTALLER.
5	INSTALL JUNCTION BOX SO THAT SENSOR CAN DETECT IF PARTITION IS OPEN OR CLOSED WITHOUT IMPEDING PARTITION OPERATION.
6	CONNECTION TO BE INSTALLED IN FLOOR BOX/POKE-THRU.

GENERAL SHEET NOTES	
1	COORDINATE EXACT LOCATION OF ALL POKE-THRU'S WITH ARCHITECT PRIOR TO INSTALLATION.
2	COORDINATE EXACT JUNCTION BOX LOCATIONS SO THAT THEY ARE EASILY ACCESSIBLE AND ARE NOT BEHIND DOORS, FURNITURE, LOWERED PROJECTION SCREENS, MONITORS, ETC.
3	ELECTRICAL INSTALLER TO ENSURE ALL WALL MOUNTED ELECTRICAL DEVICES (AV JUNCTION BOXES, DATA JACKS, ETC.) ARE PLUMB, LEVEL, AND VERTICALLY ALIGNED WHERE APPLICABLE.
4	REFER TO THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL ON SHEET EE702 FOR ADDITIONAL REQUIREMENTS REGARDING DEVICE LOCATIONS.



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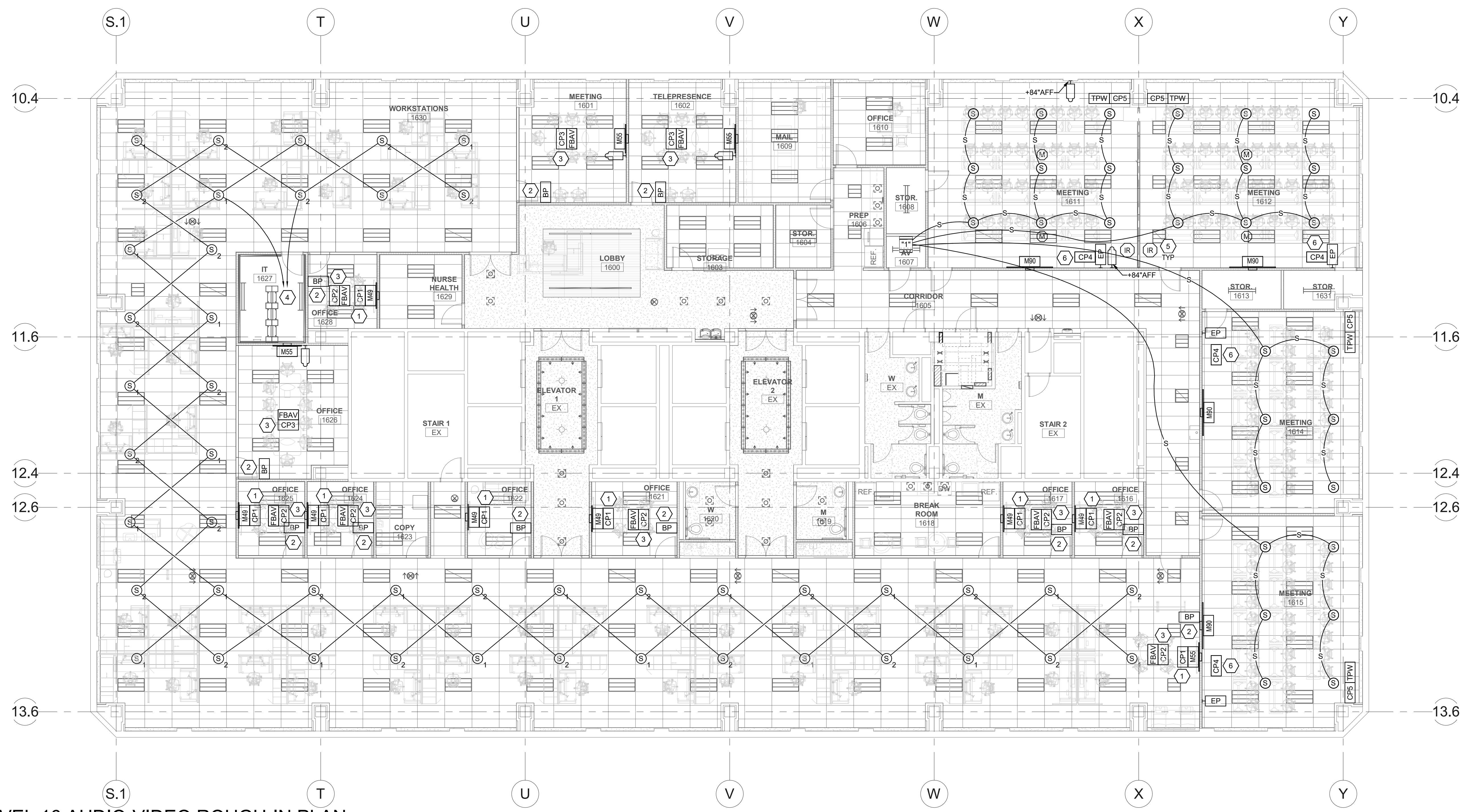
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PROJECT DESCRIPTION
**KEY BANK TOWER
 LEVEL 10 AND 16 TI**

36 S STATE ST, SLC UT 84111
 AHJ STAMP

SHEET NAME:
**LEVEL 16 AUDIO-VIDEO
 ROUGH-IN PLAN**

REVISIONS		
MARK	DATE	DESCRIPTION

ISSUE DATE: 5/25/2019
 ISSUE TYPE: PERMIT
 DRAWN BY: SJT
 CHECKED BY: AWA
 PROJECT#: 1904.01

SHEET NUMBER:

A1 LEVEL 16 AUDIO-VIDEO ROUGH-IN PLAN
 SCALE: 1/8" = 1'-0"

EJ116

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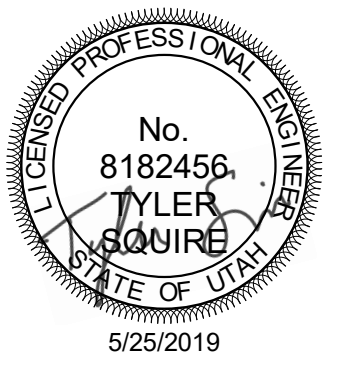
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PROJECT DESCRIPTION
**KEY BANK TOWER
 LEVEL 10 AND 16 TI**

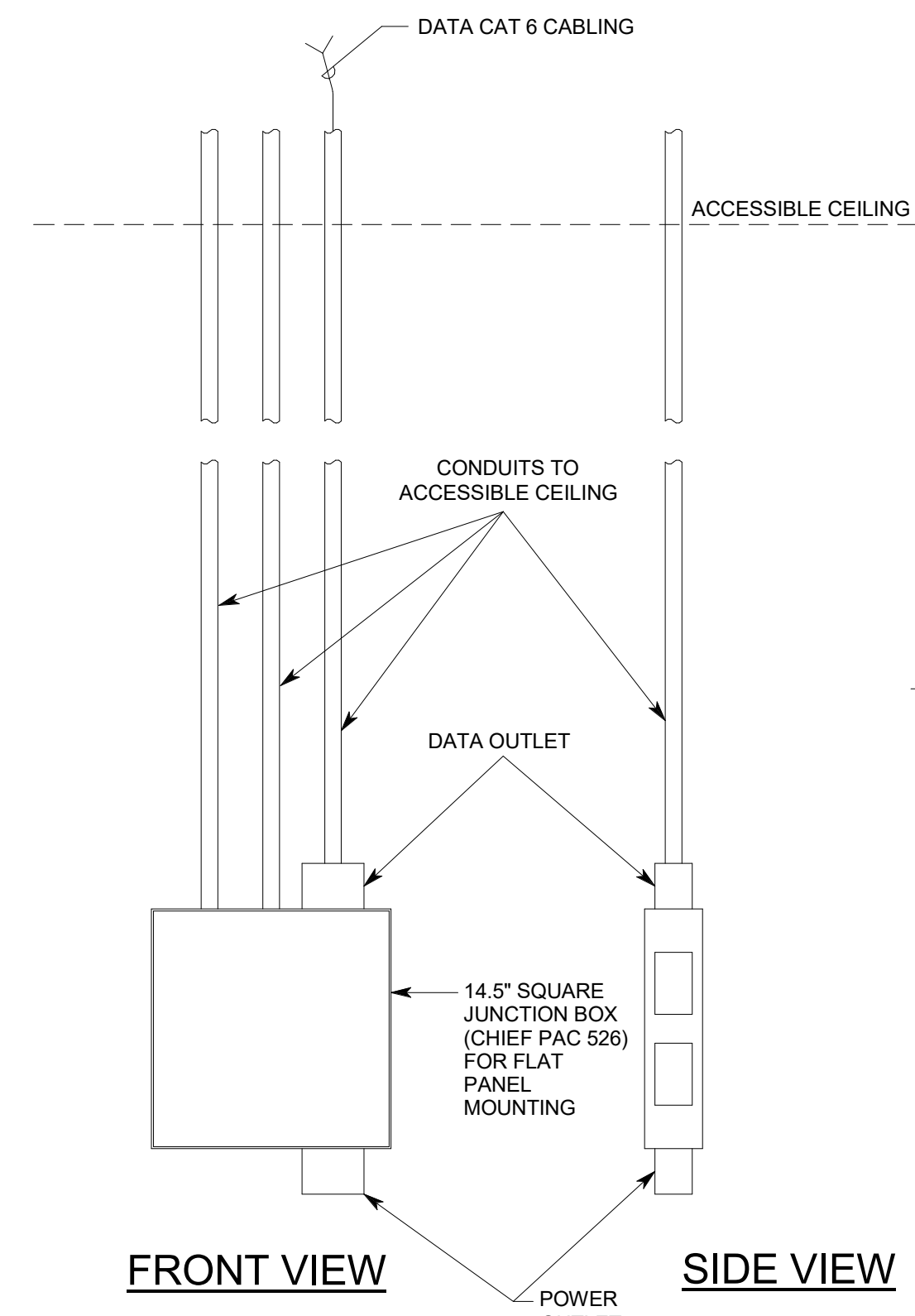
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SHEET NAME:
**AUDIO-VIDEO
 ROUGH-IN DETAILS**

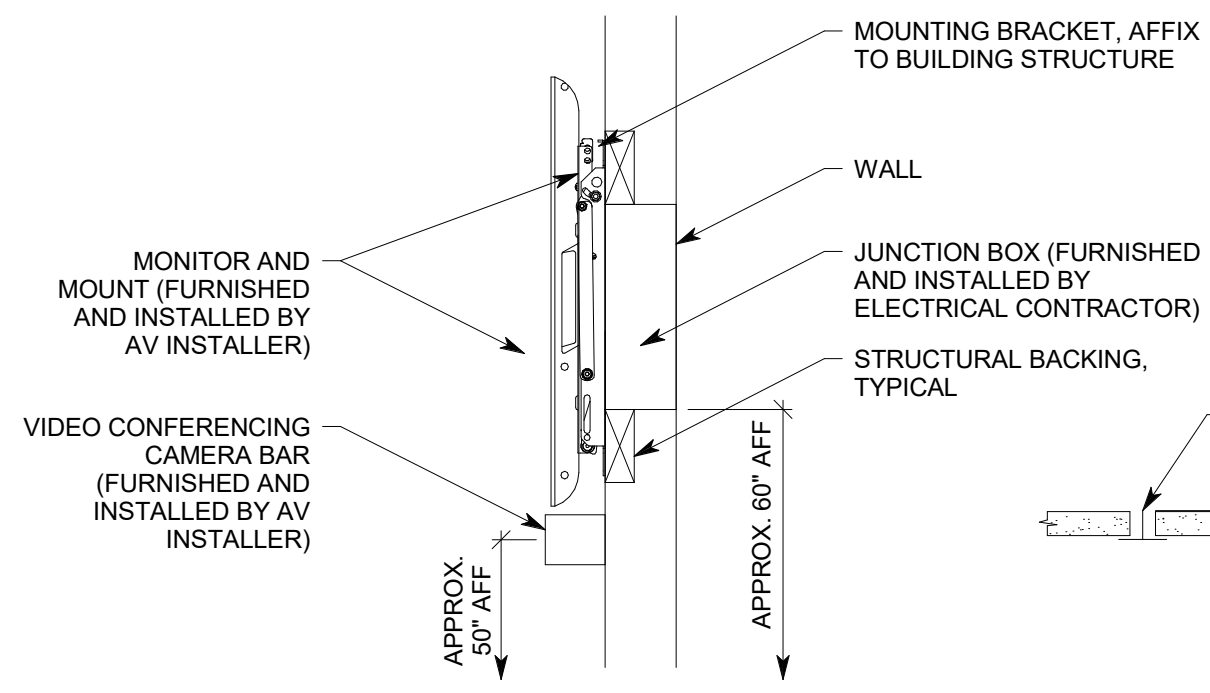
REVISIONS
 MARK DATE DESCRIPTION

ISSUE DATE: 5/25/2019
 ISSUE TYPE: PERMIT
 DRAWN BY: SJT
 CHECKED BY: AWA
 PROJECT#: 1904.01

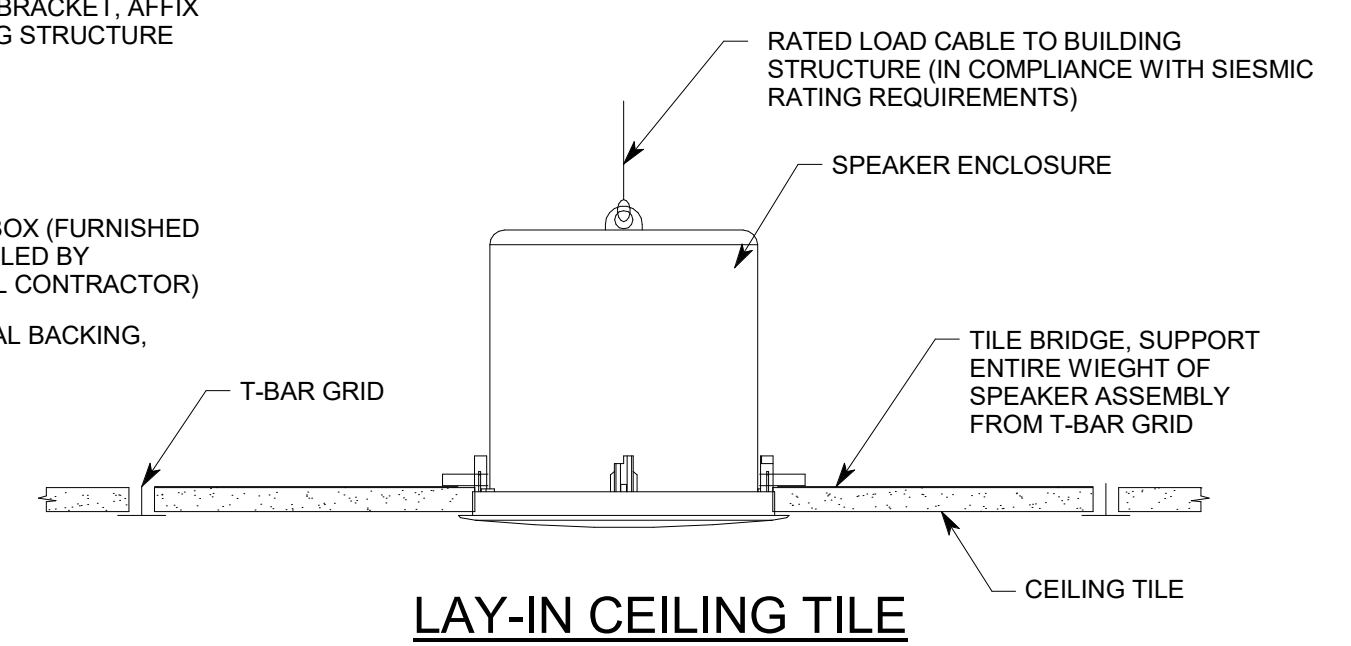
SHEET NUMBER:
EJ501



B5 FLAT PANEL WIRING DETAIL
 NO SCALE
 MON



A4 FLAT PANEL INSTALLTION DETAIL
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 MON



A5 CEILING SPEAKER INSTALLATION DETAIL
 NO SCALE
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5/24/2019 6:31:43 PM E:\Autodesk\2019\20190118 Elec Central_tds_spectrum-engineers_com.rvt
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3 AUDIO-VIDEO ROUGH-IN SYSTEMS SCHEDULE

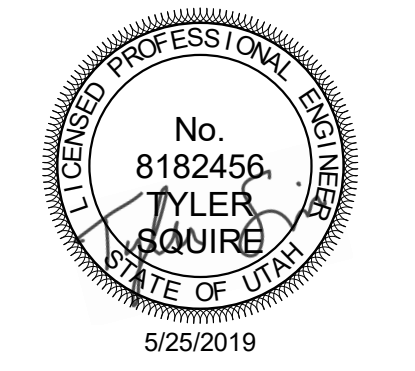
SYMBOL	DESCRIPTION	MOUNTING	SPECIAL INSTRUCTIONS
CP1 CP5	JUNCTION BOX, 4-11/16" BOX W/ 2-GANG MUD RING, MINIMUM 3" DEEP	FLUSH IN THE WALL AT ELECTRICAL OUTLET HEIGHT, EXCEPT WHERE NOTED ON THE DRAWINGS	
CP2	TABLETOP CONNECTION PANEL	IN TABLE	FURNISHED AND INSTALLED BY AV INSTALLER
CP4 FBAV	FLOOR BOX OR POKE-THRU	FLOOR	REFER TO 'EP' SHEETS FOR TYPE AND LOCATION
BP	BUTTON CONTROL PANEL, JUNCTION BOX, 4-11/16" SQUARE BOX W/ 2-GANG MUD RING	FLUSH IN WALL DIRECTLY ABOVE LIGHT SWITCH	ATTACH JUNCTION BOX TO SAME SIDE OF STUD AS LIGHT SWITCH
EP	IR EMITTER PANEL LOCATION, JUNCTION BOX, 4-11/16" SQUARE BOX W/ 1-GANG MUD RING	FLUSH IN WALL 12" BELOW FINISHED CEILING	
TP	TOUCH CONTROL PANEL, JUNCTION BOX, 4-11/16" SQUARE BOX W/ 2-GANG MUD RING	FLUSH IN WALL AT ELECTRICAL SWITCH HEIGHT	
IR	INFRARED SENSOR, JUNCTION BOX, 4-11/16" SQUARE BOX W/ 1-GANG MUD RING	FLUSH IN HEADER PER SHEET KEYNOTE	
M	MICROPHONE	FLUSH IN FINISHED CEILING	FURNISHED AND INSTALLED BY AV INSTALLER
S _{1,2}	MASKING SPEAKER	ABOVE CEILING	FURNISHED AND INSTALLED BY AV INSTALLER
S	SPEAKER LOCATION	FLUSH IN FINISHED CEILING	SPEAKER FURNISHED AND INSTALLED BY AV INSTALLER, TRIM RING INSTALLED BY ELECTRICAL, SEE DETAIL A5EJ501
Camera Icon	CAMERA LOCATION	BELOW MONITOR	FURNISHED AND INSTALLED BY AV INSTALLER
Camera Icon	CAMERA LOCATION	BELOW MONITOR	FURNISHED AND INSTALLED BY AV INSTALLER
MXJ	FLAT PANEL MONITOR JUNCTION BOX, CHIEF PAC 526FCW	FLUSH IN THE WALL AT APPROXIMATELY +60" AFF TO BOTTOM OF BOX, OR AS NOTED ON PLAN SHEETS	COORDINATE WITH STRUCTURAL BACKING, AND COORDINATE EXACT ELEVATION WITH ARCHITECTURAL ELEVATIONS, SEE DETAILS A4/EJ501 AND B5/EJ501
RT	EQUIPMENT RACK #1, 14-1/2" SQUARE JUNCTION BOX AT +18" AFF TO CENTER OF BOX, CHIEF PAC 526FCW	FLUSH IN WALL BEHIND EQUIPMENT RACK	
Conduit	CONDUIT, 3/4" MINIMUM	CONCEALED BEHIND FINISHED SURFACES, UNLESS OTHERWISE NOTED	REFER TO RISER DIAGRAMS FOR EXACT SIZES & QUANTITIES.

5 GENERAL SHEET NOTES

- INSTALL ALL CONDUIT IN A CONCEALED FASHION. SURFACE MOUNTED CONDUIT WILL NOT BE ACCEPTED. CONDUITS AND BOXES ABOVE CEILING HEIGHT MAY BE INSTALLED EXPOSED AND PAINTED TO MATCH SURROUNDING EQUIPMENT.
- MAINTAIN MAXIMUM SEPARATION BETWEEN AV SYSTEM CONDUIT AND ALL POWER CONDUIT. MINIMUM SEPARATION REQUIREMENTS IS 24".
- INSTALL NYLON PULL STRINGS IN ALL AV SYSTEM CONDUIT.
- INSTALL ALL EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, SEISMIC CODES, AND INDUSTRY WIDE ACCEPTED RIGGING PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM STRUCTURE. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.
- IF THE BOXES, ENCLOSURES, & CABINETS SPECIFIED ARE NOT PROVIDED FROM THE MANUFACTURER WITH THE REQUIRED KNOCK OUTS FOR THE SPECIFIED CONDUIT, FIELD CUT ALL REQUIRED KNOCK OUTS TO TERMINATE THE QUANTITY AND SIZES OF THE SPECIFIED CONDUITS.
- THE ROUGH-IN LOCATIONS FOR PROJECTORS SHOWN ON THE FLOOR PLAN DRAWINGS ARE APPROXIMATE. COORDINATE WITH AV CONTRACTOR FOR ACTUAL PROJECTION DISTANCES. LOCATE ROUGH-IN FOR PROJECTORS IN COMPLIANCE WITH THE DISPLAY DEVICE SCHEDULE.
- ALL ROUGH-IN SHALL BE IN COMPLIANCE WITH ANSIA/TIA/EIA 568-B WHICH INCLUDES, BUT IS NOT LIMITED TO, ALL CONDUITS HAVING NO MORE THAN TWO 90 DEGREE BENDS.
- ALL CONDUIT FOR AV ROUGH-IN SHALL BE EMT.
- ALL CONNECTION PANELS SHALL BE WITHIN 12" OF POWER AND DATA OUTLETS. NOTIFY ENGINEER IF DISCREPANCY IS FOUND.
- ALL AV CONDUITS SHALL BE INSTALLED USING SHORTEST RUNS POSSIBLE. THERE SHOULD BE NO UNNECESSARY BENDS IN CONDUIT RUNS.
- CONDUITS AND JUNCTION BOXES SHOWN NO RISER DIAGRAMS ARE TYPICAL FOR EACH DEVICE IN ROOM.
- COVER ALL JUNCTION BOXES WITH A BLANK NYLON COVER PLATE.



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DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS, WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE. NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" ARE DIRECTED BY THE ENGINEER, "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

PROJECT DESCRIPTION

KEY BANK TOWER LEVEL 10 AND 16 TI

36 S STATE ST, SLC UT 84111
 AHJ STAMP

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

*A" AMP OR AMPS	*IG" INSULATED GROUND
*ADJ" ADJACENT	*IMC" INTERMEDIATE METAL CND
*AFF" ABOVE FINISHED FLOOR	*INIS" INSULATED/ISOLATED
*AL" ALUMINUM	*KVA" KILO VOLT AMPERES
*C" CONDUIT	*KW" KILOWATTS
*CB"/"CB" CIRCUIT BREAKER	*LFMC" LIQUID TIGHT FLEXIBLE METAL CONDUIT
*CKT" CIRCUIT	*LFNC" LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
*CO" CONVENIENCE OUTLET	*MCA" MINIMUM CIRCUIT AMPS
*C.O.R." CONTRACTING OFFICER'S REPRESENTATIVE	*MLO" MAIN LUGS ONLY
*CU" COPPER	*N.C." NORMALLY CLOSED
*EA" EACH	*N.I.C." NOT IN CONTRACT
*ELEC" ELECTRICAL	*N.O." NORMALLY OPEN
*EM" EMERGENCY	*O.C." ON CENTER
*EMT" ELECTRICAL METALLIC TUBING	*OCP" OVER CURRENT PROTECTION
*ENT" ELECTRICAL NONMETALLIC TUBING	*QTY" QUANTITY
*EQUIP" EQUIPMENT	*R" REMOVE
*EX" EXISTING	*RMC" RIGID METAL CONDUIT
*FA" FIRE ALARM	*RNC" RIGID NONMETALLIC CONDUIT
*FACP" FIRE ALARM CONTROL PANEL	*RR" REMOVE AND RELOCATE
*FLA" FULL LOAD AMPS	*TYP" TYPICAL
*FMC" FLEXIBLE METAL CONDUIT	*UF" UNDER FLOOR
*F.O.B." FREIGHT ON BOARD	*UG" UNDER GROUND
*GFI" GROUND FAULT INTERRUPTER	*W" WITH
*GR" GROUND	*WP" WEATHER PROOF
*HOA" HAND-OFF-AUTO	*XFMR" TRANSFORMER
*HP" HORSE POWER	

REVISIONS

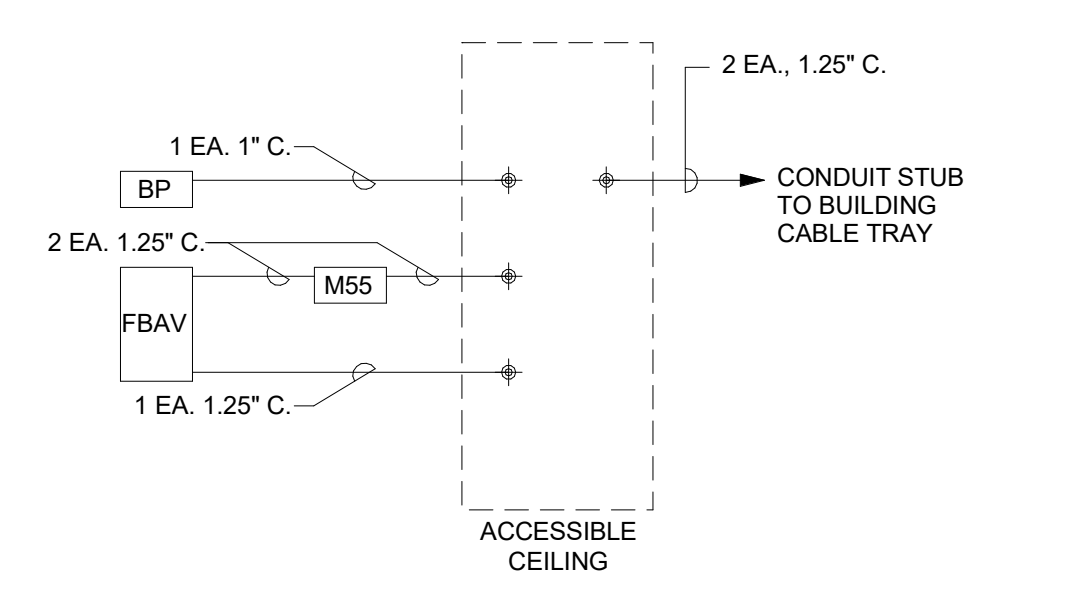
MARK	DATE	DESCRIPTION

SHEET NAME:
AUDIO-VIDEO ROUGH-IN SCHEDULES, NOTES, AND RISER DIAGRAMS

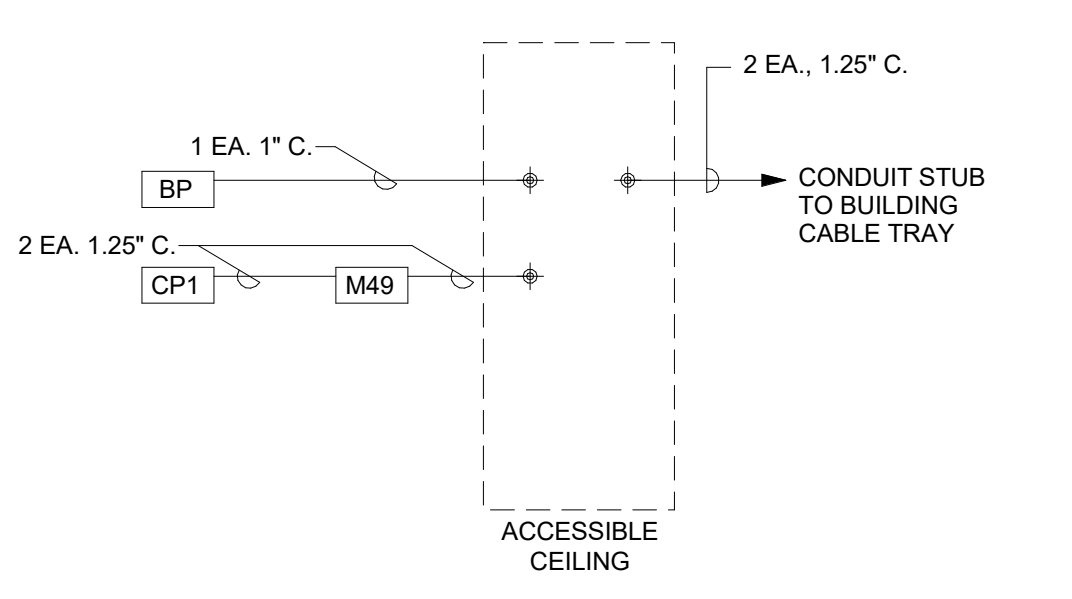
ISSUE DATE: 5/25/2019
 ISSUE TYPE: PERMIT
 DRAWN BY: SJT
 CHECKED BY: AWA
 PROJECT#: 1904.01

SHEET NUMBER: EJ601

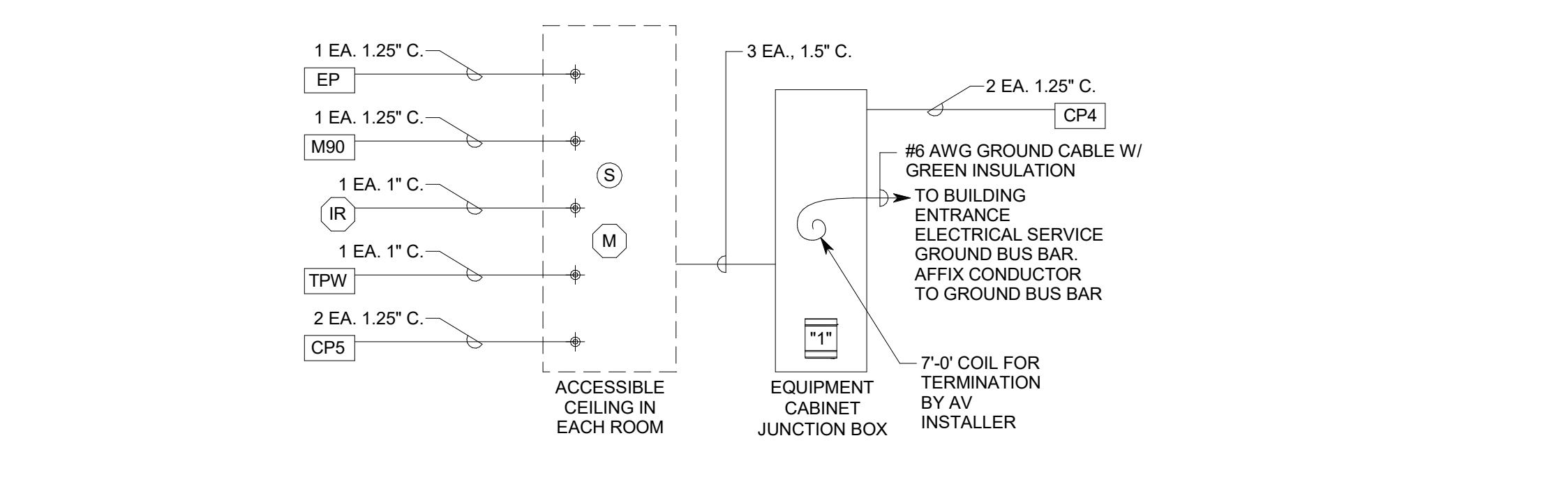
C1 MEDIUM COLLAB. ROOMS AV CONDUIT RISER DIAGRAM
NO SCALE



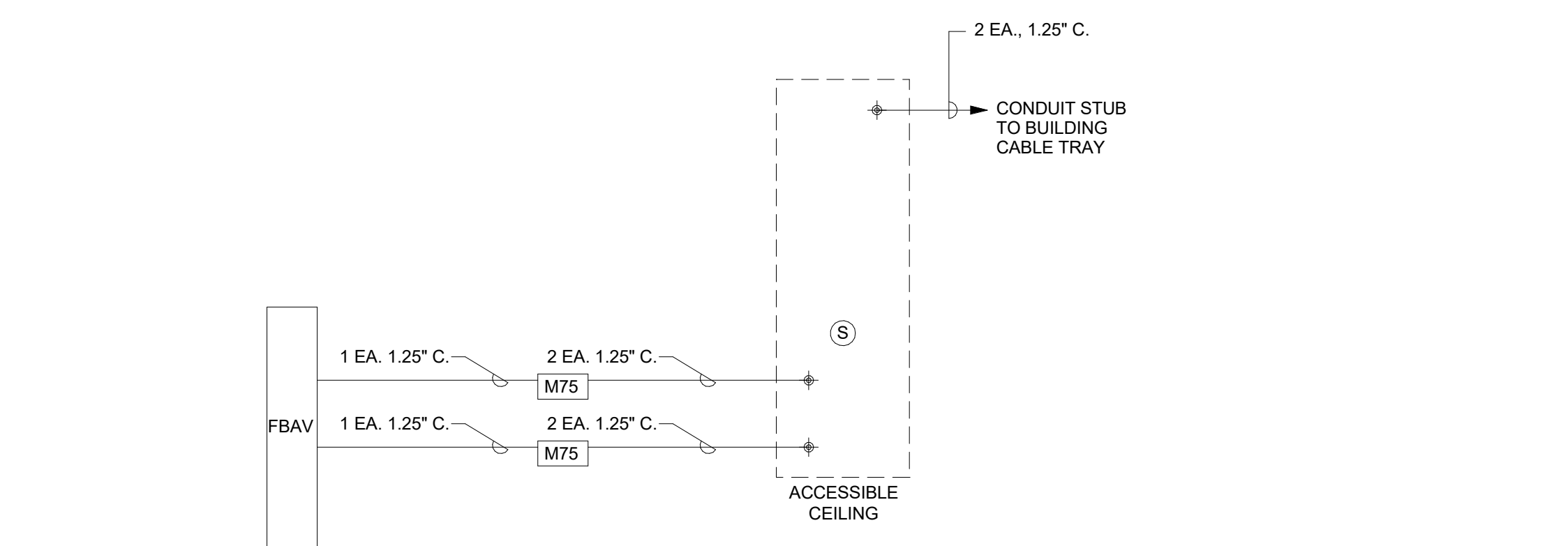
C2 SMALL COLLAB. ROOMS AV CONDUIT RISER DIAGRAM
NO SCALE



B1 16TH FLOOR MEETING ROOMS AV CONDUIT RISER DIAGRAM
NO SCALE



A1 LARGE COLLAB. ROOM AV CONDUIT RISER DIAGRAM
NO SCALE



2 AUDIO AND VIDEO SYSTEM EQUIPMENT LIST

THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE ELECTRONIC SYSTEMS INSTALLATION. WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE, FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SYMBOL	DESCRIPTION	QUANTITY	ACCEPTABLE TYPES
MOD EP	ASSISTED LISTENING SYSTEM, INFRARED, W/ RECEIVERS AS REQUIRED BY ADA	OFF	LISTEN LT-82
		OFF	LISTEN LA-140 W/ WALL MOUNT BRACKET
		A/R	LISTEN LR-42/ LA-363/ LA-350
WR	WIRELESS MICROPHONE SYSTEM WITH BODY WORN AND HANDHELD TRANSMITTER, LAVALIER MICROPHONE	OFF	SHURE ULX-D SYSTEM W/ 1, 2, OR 4-CHANNEL RECEIVER, ULXD2/SM88 HANDHELD TRANSMITTER, ULXD1 BODYPAK TRANSMITTER AND WL183 LAPEL MIC
		OFF	COUNTRYMAN E6i
		A/R	SHURE UA844/JA870/JA8100
MIC	MICROPHONE, LECTERN, 18" GOOSENECK	OFF	SHURE MX418/C
TPW	WALL MOUNTED TOUCH SCREEN CONTROL PANEL, 7", PoE	OFF	CRESTRON TSW-760-W-S
TPT	TOUCH SCREEN CONTROL PANEL, 7", PoE W/ TABLETOP KIT	OFF	CRESTRON TSW-760 W/ TSW-760-TTK-B-S
CS	CONTROL SYSTEM CENTRAL PROCESSOR W/RS-232, IR, RELAYS & ETHERNET CARD, SEE NOTES #14,15	OFF	CRESTRON PRO3/ C3COM-3
M90	FLAT PANEL DISPLAY, 90", LCD, MINIMUM 1080p	OFF	LG 86UM3C, OR AS APPROVED
	FIXED WALL MOUNT W/ MONITOR MATING PLATE	OFF	CHIEF LSA1U W/ ALL NECESSARY ACCESSORIES
MON	MONITOR LED 23", NATIVE RESOLUTION, 1920x1280, BLACK IN COLOR	OFF	NEC EX231W HP 2311X1 OR AS APPROVED
DRXS	TWISTED PAIR DIGITAL VIDEO RECEIVER, HDMI OUT, 8G+ W/ SCALER AND MOUNTING HARDWARE	OFF	CRESTRON DM-RMC-4K-SCALER-C
	LECTERN, MULTIMEDIA W/ FRONT DOORS, REMOVABLE BACK, AND SIDE SHELF	4	DWI ENTERPRISES DM400SE-2, W/ EXTRON CABLE CUBBY 500, AND EQUIPMENT AS DETAILED, ARCHITECT TO SELECT FINISH
WVR	EQUIPMENT RACK #1, WALL MOUNTED, PIVOTING, ENCLOSED E/ FRONT AND REAR RAILS, FRONT DOOR, ZERO CLEARANCE LATCH AND FANS	OFF	MIDDLE ATLANTIC SR40-32/ VFD-40/ DWR-RR40/ QFANFANCORD, OR APPROVED EQUIVALENT, NOTE #15
WVR	WIRELESS VIDEO RECEIVER/ COLLABORATION GATEWAY	OFF	EXTRON SHARELINK 250 W
UPS	UNINTERRUPTIBLE POWER SUPPLY, 20 AMP	OFF	MIDDLE ATLANTIC UPS-2200R
DMS	DIGITAL MATRIX SWITCHER, CARD FRAME W/INPUT AND OUTPUT CARDS, FRAME SIZE AND I/O CARDS AS REQUIRED	OFF	CRESTRON DM-MD 16X16
	ONE TWISTED PAIR INPUT CARD, 8G+	A/R	CRESTRON DMC-4K-C-HDCP2
	ONE HDMI INPUT CARD	A/R	CRESTRON DMC-4K-HD-HDCP2
	OUTPUT CARDS (HDMI, TWISTED PAIR & MM FIBER)	A/R	CRESTRON DMCO
STR	RECORDING / H.264 STREAMING PROCESSOR	OFF	EXTRON SMP 351
CPE	CONTROL PORT EXPANSION MODULE	A/R	CRESTRON C2N-IO
COD2	VIDEO CONFERENCING CODEC	1	CISCO WEBEX CODEC PRO W/ ALL REQUIRED ACCESSORIES AND LICENSES
CRX	CAMERA AND CAMERA CONTROL UNIT, PTZ, TP CONNECTIVITY, 20X ZOOM	OFF	VADDIO ROBOSHOT 20 UHD 999-9950-000 W/ ONELINK INTERFACE AND WALL MOUNT
	POWER AMPLIFIER, 2-CHANNEL, 100 WATTS PER CHANNEL	OFF	CRESTRON AMP-2100-70
M	CEILING MICROPHONE, STEARABLE, DANTE	OFF	SHURE MXA910W
ASP	AUDIO DIGITAL SIGNAL PROCESSOR, OPEN ARCHITECTURE W/ AEC AND VOIP INTERFACE	OFF	BIAMP TESIRA SERVER-IO AVB W/ TESIRA DAN-A, TESIRA FORTE AVB VR, SEC-4, SOC-4

4 AUDIO AND VIDEO SYSTEM EQUIPMENT LIST

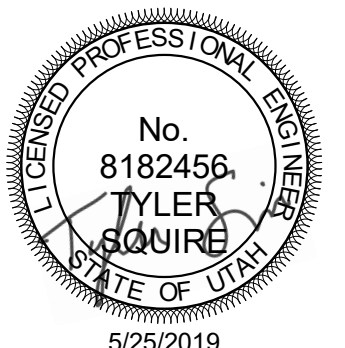
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SYMBOL	DESCRIPTION	QUANTITY	ACCEPTABLE TYPES
S	SPEAKER, 6.5", CEILING MOUNTED, W/ GRILLE AND TILE RAILS	OFF	COMMUNITY D6 W/ REQUIRED ACCESSORIES
NS	NETWORK SWITCH, POE, GIGABIT, MANAGED	A/R	CISCO SG30028PP
DPP	DATA PATCH PANEL, CAT6, 24-PORT	1	
DTX DRX	TWISTED PAIR DIGITAL VIDEO TRANSMITTER/ RECEIVER PAIR IN, W/ MOUNTING HARDWARE	OFF	EXTRON HC 404
UTX URX	TWISTED PAIR USB TRANSMITTER/ RECEIVER PAIR, W/ MOUNTING HARDWARE	OFF	IOGEAR GUCE64
	POWER AMPLIFIER, 70V, MONO, 60 WATT	OFF	EXTRON MPA 601
CP#	CONNECTION PANELS #1, #4, #5	OFF	PLATE W/ CUSTOM CONNECTIONS AND ENGRAVING AS DETAILED, SEE DETAILS ON SHEET TA501.
CP2 CP3	CONNECTION PANELS #2, #3	OFF	EXTRON AAP PLATES, SEE DETAILS B5/TA501 AND A4/TA501
M49	FLAT PANEL DISPLAY, 49", LCD, MINIMUM 1080p	OFF	LG 49LV640S, OR AS APPROVED
	FIXED WALL MOUNT, LANDSCAPE	OFF	CHIEF MSTU W/ ALL NECESSARY ACCESSORIES, INCLUDING CAMERA SHELF
M55	FLAT PANEL DISPLAY, 55", LCD, MINIMUM 1080p	OFF	LG 55LV640S, OR AS APPROVED
	FIXED WALL MOUNT, LANDSCAPE	OFF	CHIEF MSTU W/ ALL NECESSARY ACCESSORIES, INCLUDING CAMERA SHELF
M75	FLAT PANEL DISPLAY, 80", LCD, MINIMUM 1080p	OFF	LG 75UH5C, OR AS APPROVED
	FIXED WALL MOUNT W/ MONITOR MATING PLATE	OFF	CHIEF LSA1U
	WEB CONFERENCING SOUND BAR WITH INTEGRATED CAMERA	OFF	AMX ACV-5100
COD CTRL POEI	VIDEO CONFERENCING/ COLLABORATION SYSTEM, INCLUDING TRACKING CAMERA, AND CONTROL TOUCH PANEL	OFF	CISCO WEBEX ROOM KIT PLUS W/ CISCO WALL MOUNT AND PoE INJECTOR
MIC	VIDEO CONFERENCING MICROPHONE	OFF	CISCO TABLE MICROPHONE 20
BP	BUTTON CONTROL PANEL	OFF	EXTRON MLC PLUS 100, LABELED PER DETAIL. SEE DETAIL B4/TA501.
CPU	SMALL FORMAT COMPUTER, OWNER FURNISHED AND INSTALLED	0	
	CONNECTORS, SEE NOTE 5	A/R	
	POWER SUPPLIES, MISC. TRANSFORMERS, SIGNAL SENSORS, PROTOCOL CONVERTERS, SEE NOTES 4, 7, 8	A/R	
	PATCH CORDS, SEE NOTE 6	A/R	
	ADAPTER CABLES, SEE NOTE 9	A/R	
	CABLE, SEE AUDIO-VIDEO SYSTEMS CABLE SCHEDULE	A/R	
	HDMI CONNECTOR SUPPORT BRACKETS	A/R	EXTRON LOCKIT
	NYLON BRAIDED EXPANDABLE SLEEVING	A/R	TECH FLEX FLEXPET
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR AT MONITORS	OFF	SURGEX SA82 OR TRIPP LITE ISOBAR6
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR, 20 AMP, RACK MOUNT	OFF	TRIPP LITE IBAR12-20ULTRA

A/R = AS REQUIRED, OFF = OBTAIN FROM PLANS, OFCI = OWNER FURNISHED CONTRACTOR INSTALLED



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PROJECT DESCRIPTION

KEY BANK TOWER LEVEL 10 AND 16 TI

36 S STATE ST, SLC UT 84111
AHJ STAMP

SHEET NAME:
AUDIO-VIDEO SYSTEMS
EQUIPMENT LIST

REVISIONS

MARK	DATE	DESCRIPTION

ISSUE DATE: 5/25/2019
ISSUE TYPE: PERMIT
DRAWN BY: SJT
CHECKED BY: AWA
PROJECT#: 1904.01

SHEET NUMBER:
TA002

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D

C

B

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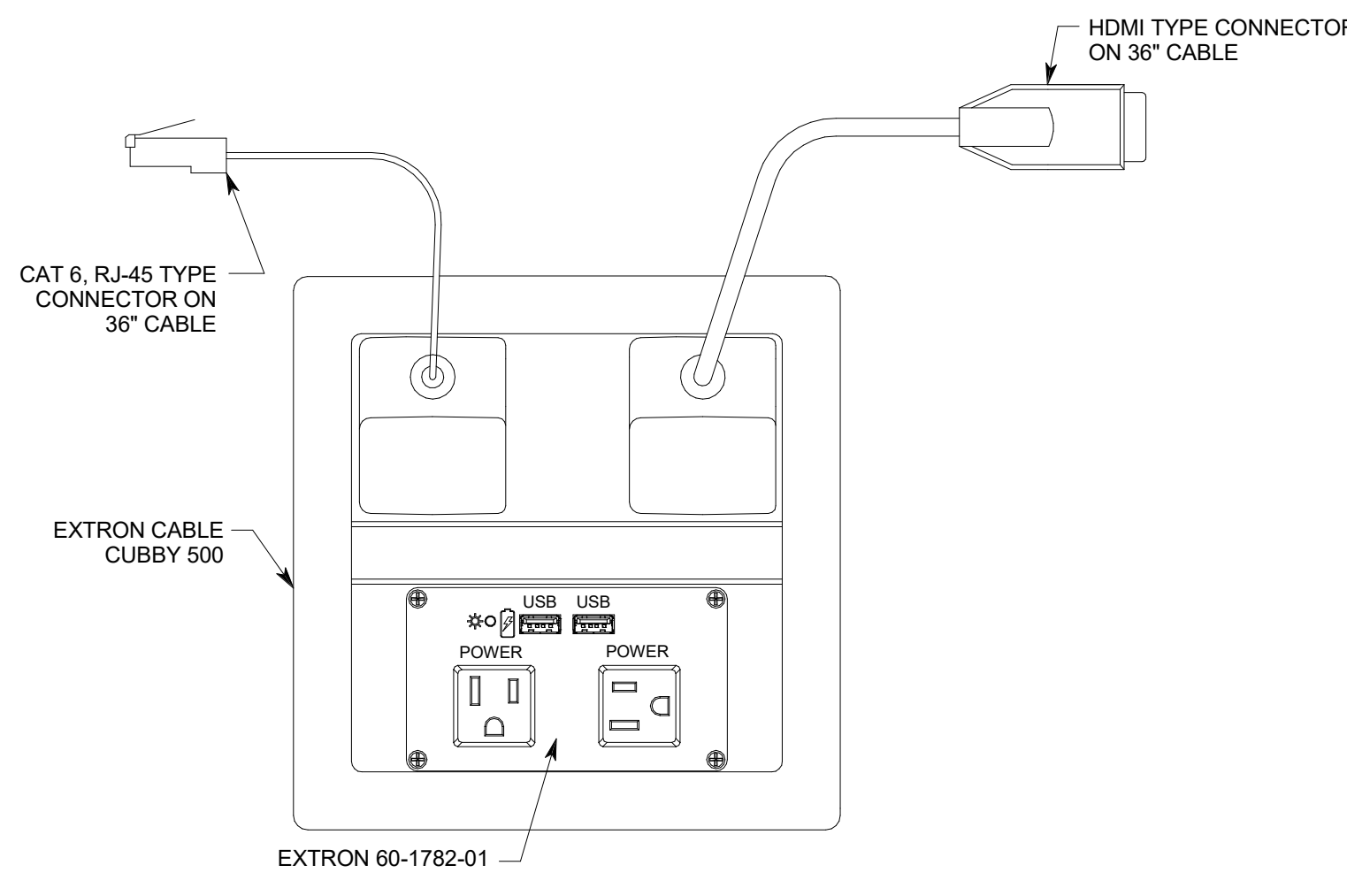
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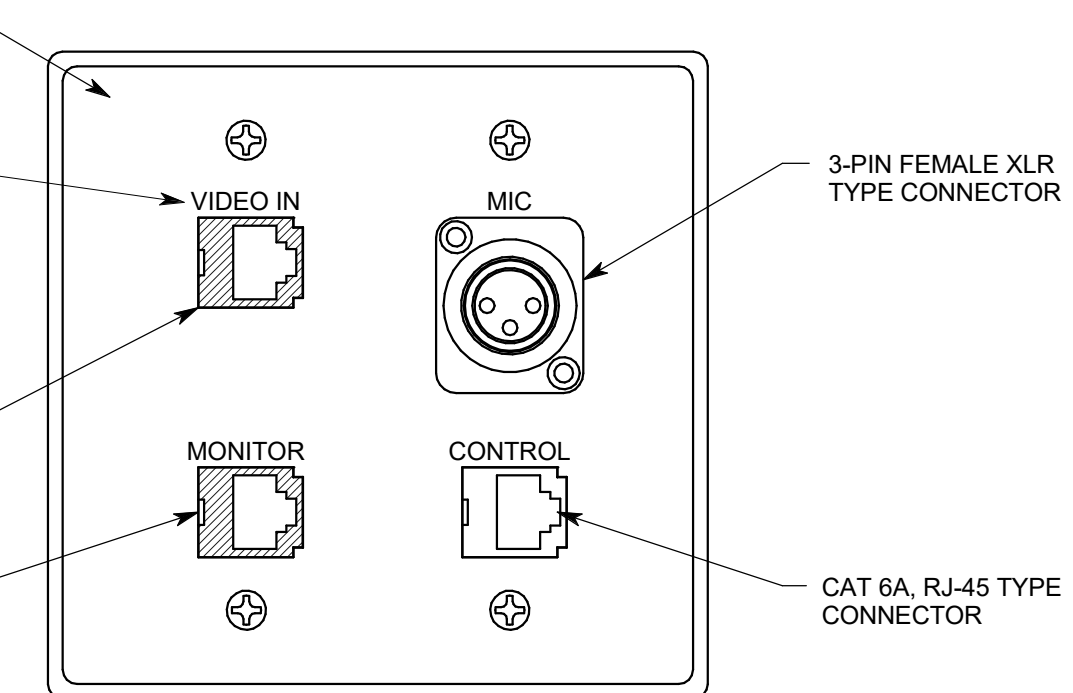
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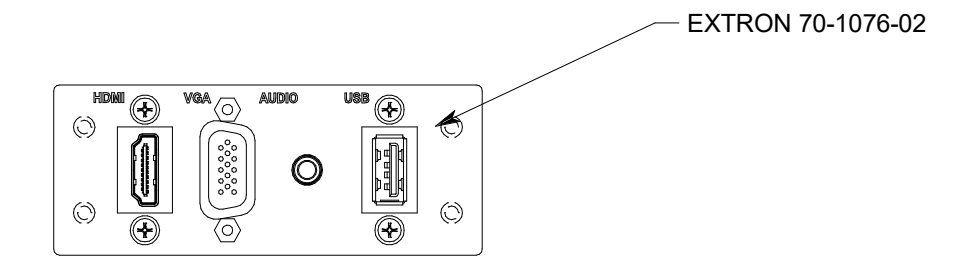
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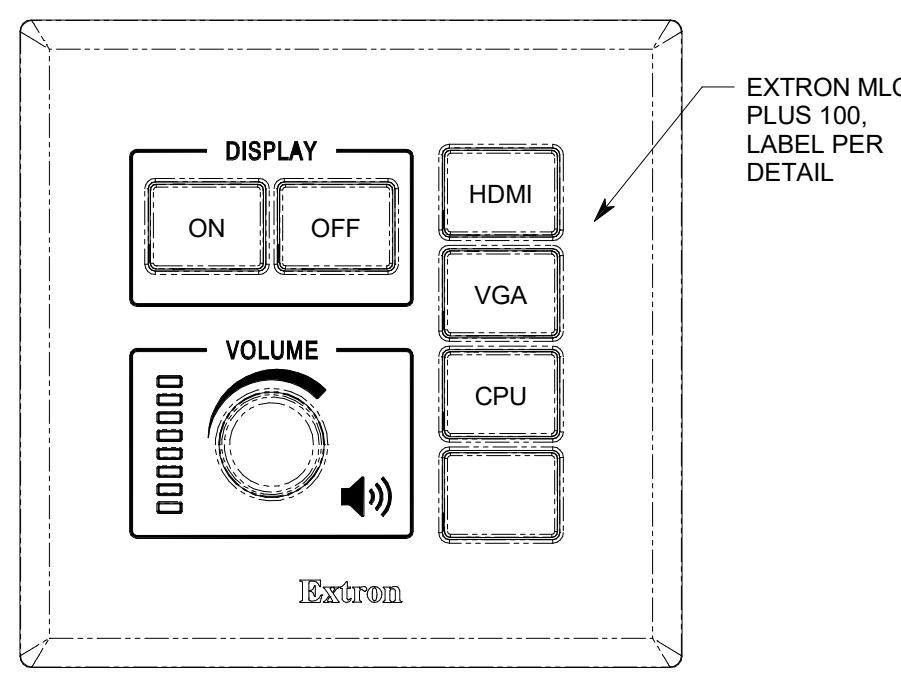
C3 CONNECTION PANEL #8 DETAIL
NO SCALE



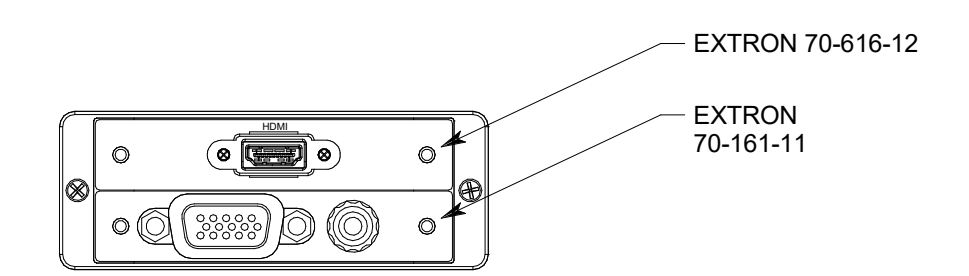
D5 CONNECTION PANEL #4 DETAIL
NTS CP4



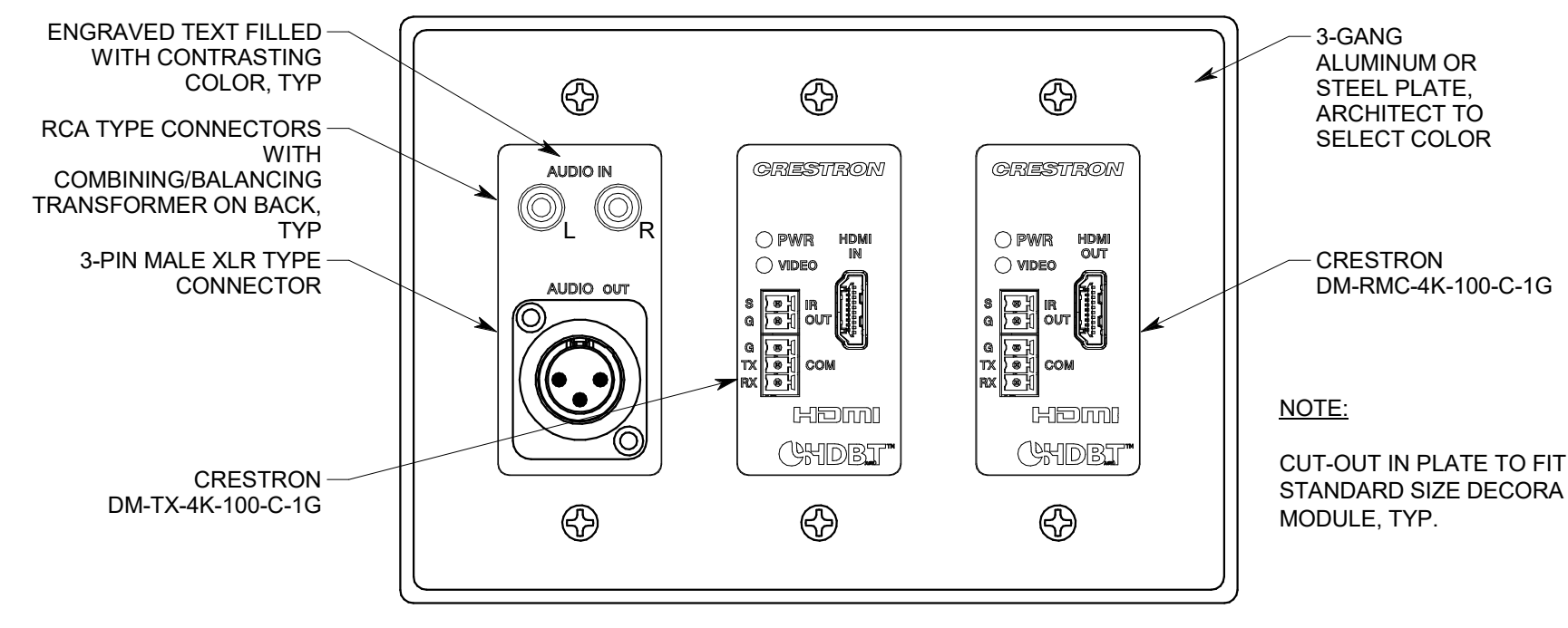
C5 CONNECTION PANEL #3 DETAIL
NO SCALE CP3



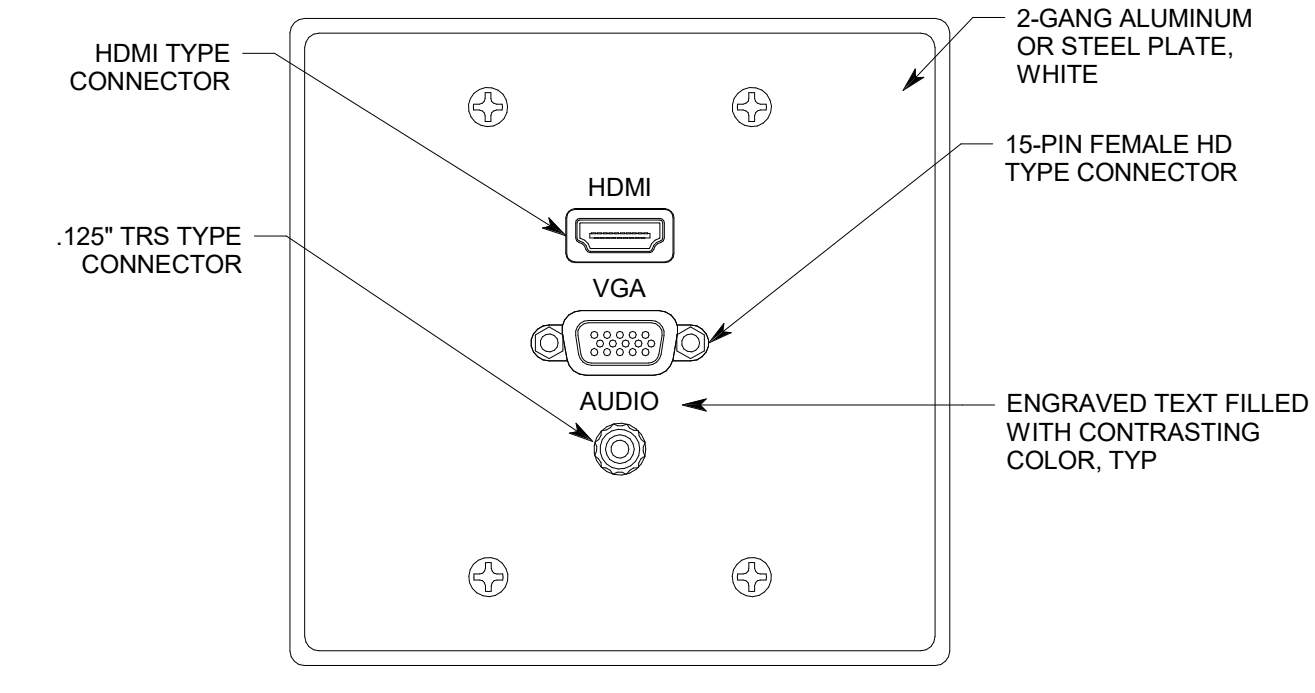
B3 BUTTON CONTROL PANEL DETAIL
NO SCALE (TYPICAL OF CONFERENCE ROOMS) BP



B5 CONNECTION PANEL #2 DETAIL
NO SCALE CP2

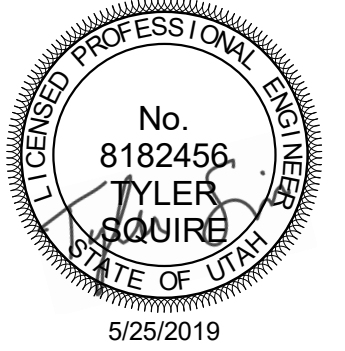


A3 CONNECTION PANEL #5 DETAIL
NTS CP5



A5 CONNECTION PANEL #1 DETAIL
NTS CP1

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 801-328-5151
 fax: 801-328-5155
 www.spectrum-engineers.com

PROJECT DESCRIPTION

**KEY BANK TOWER
 LEVEL 10 AND 16 TI**

36 S STATE ST, SLC UT 84111

AHJ STAMP

SHEET NAME:

**AUDIO-VIDEO SYSTEMS
 DIAGRAMS**

REVISIONS

MARK	DATE	DESCRIPTION
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ISSUE DATE: 5/25/2019
 ISSUE TYPE: PERMIT
 DRAWN BY: SJT
 CHECKED BY: AWA
 PROJECT#: 1904.01

SHEET NUMBER:

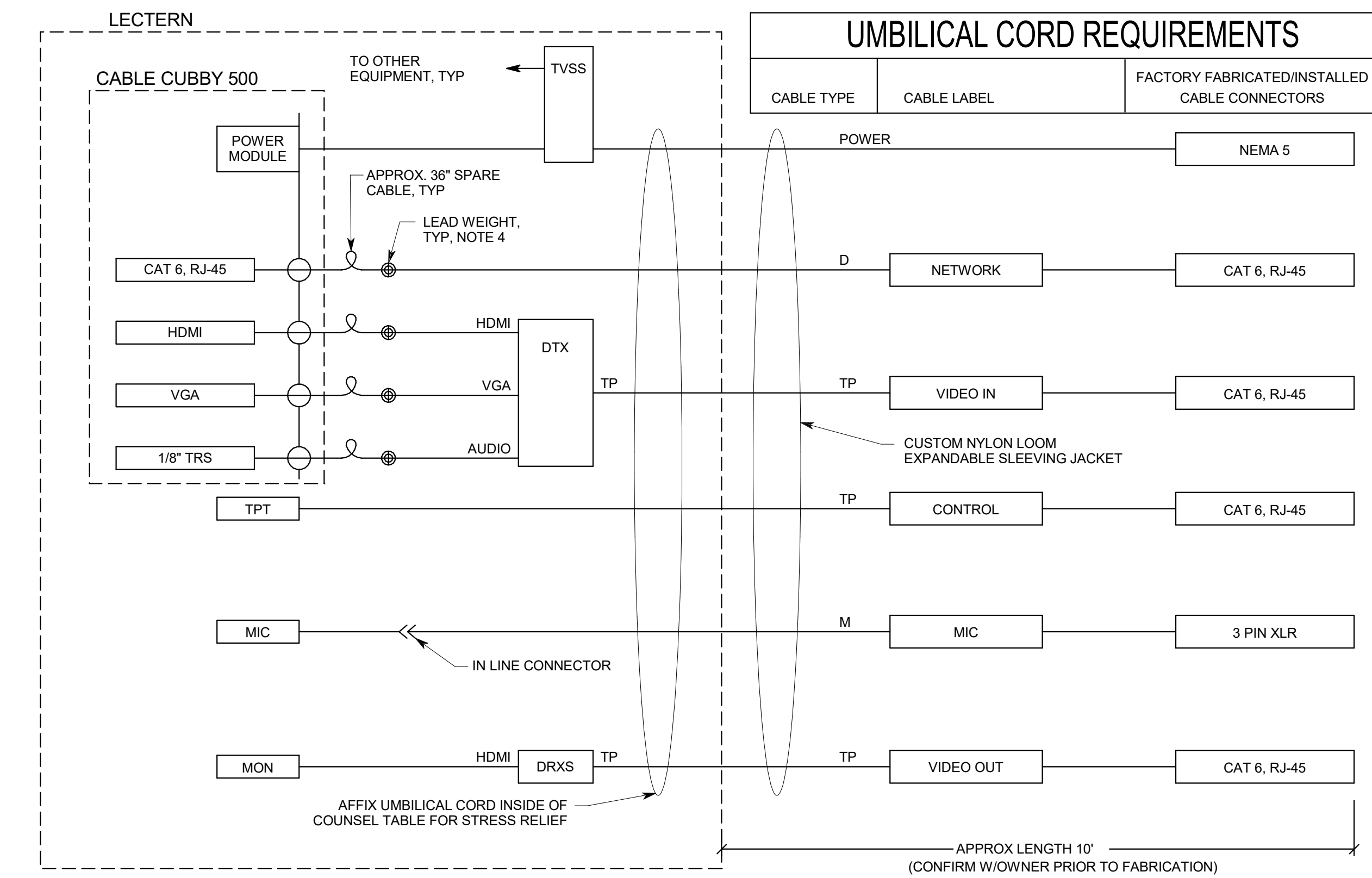
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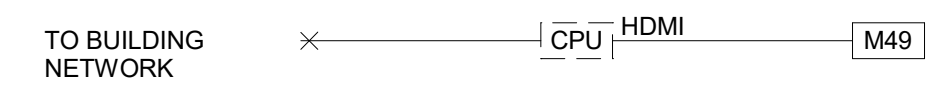
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A1 LECTERN EQUIPMENT & UMBILICAL CORD DETAIL

NO SCALE

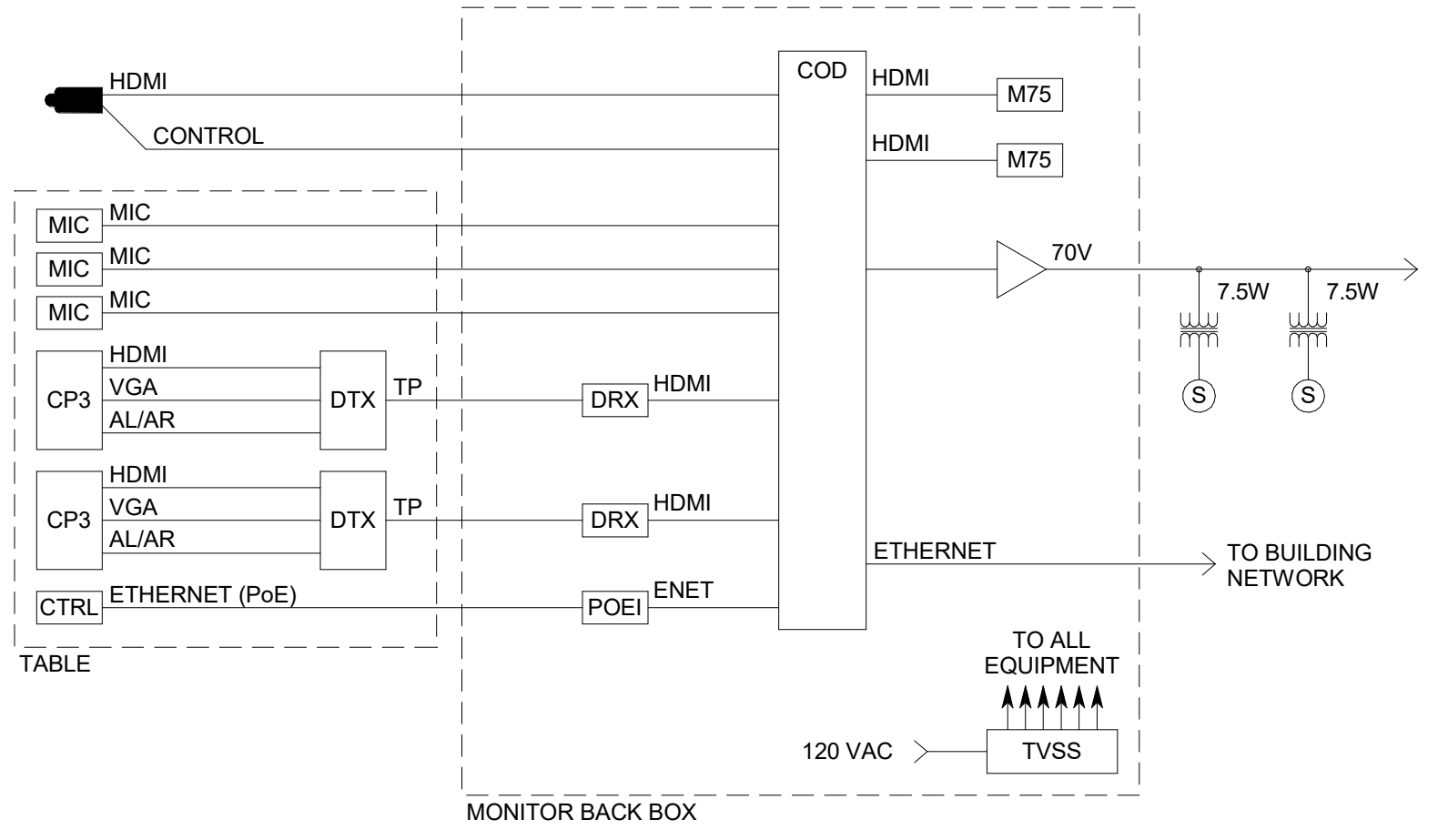


C3 DIGITAL SIGNAGE SYSTEM RISER DIAGRAM

NTS

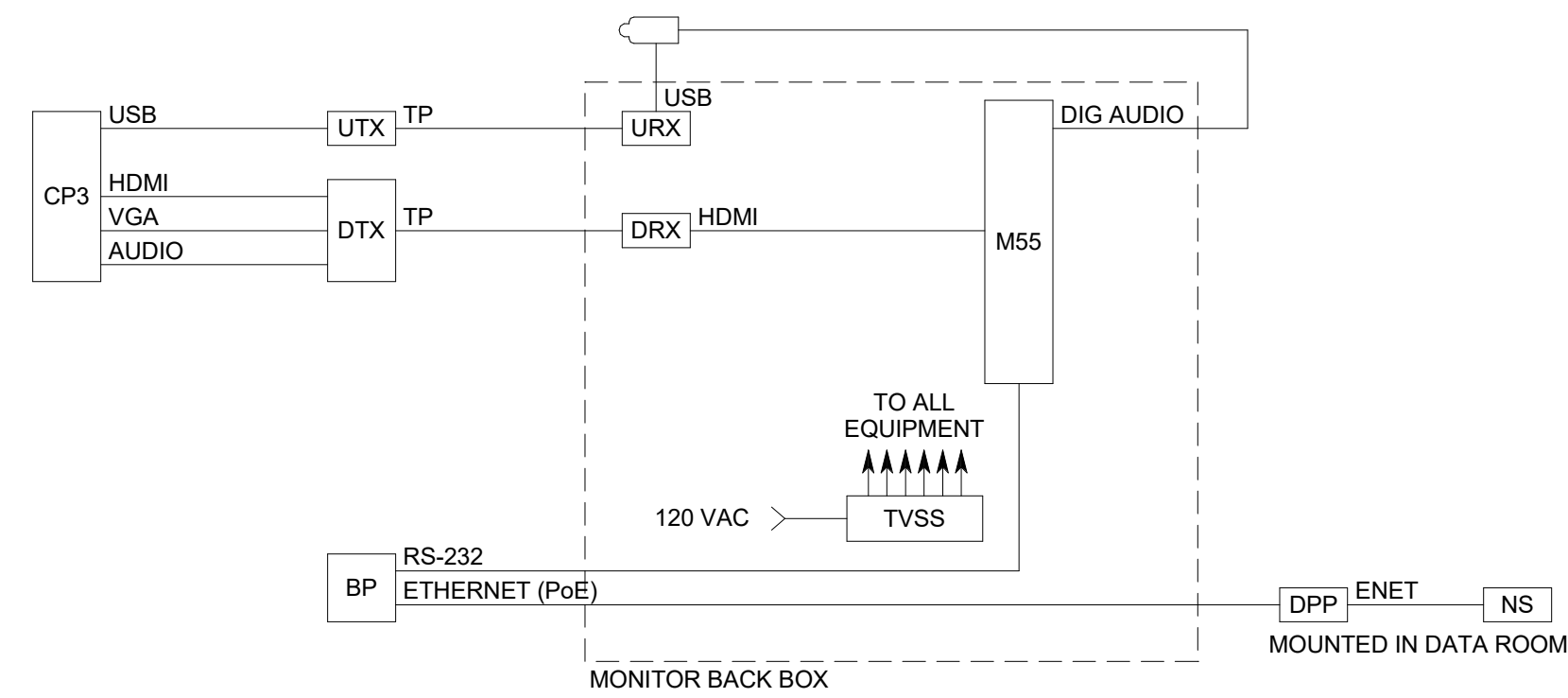
C4 TELEPRESENCE ROOM 1001 AV SYSTEM RISER DIAGRAM

NTS



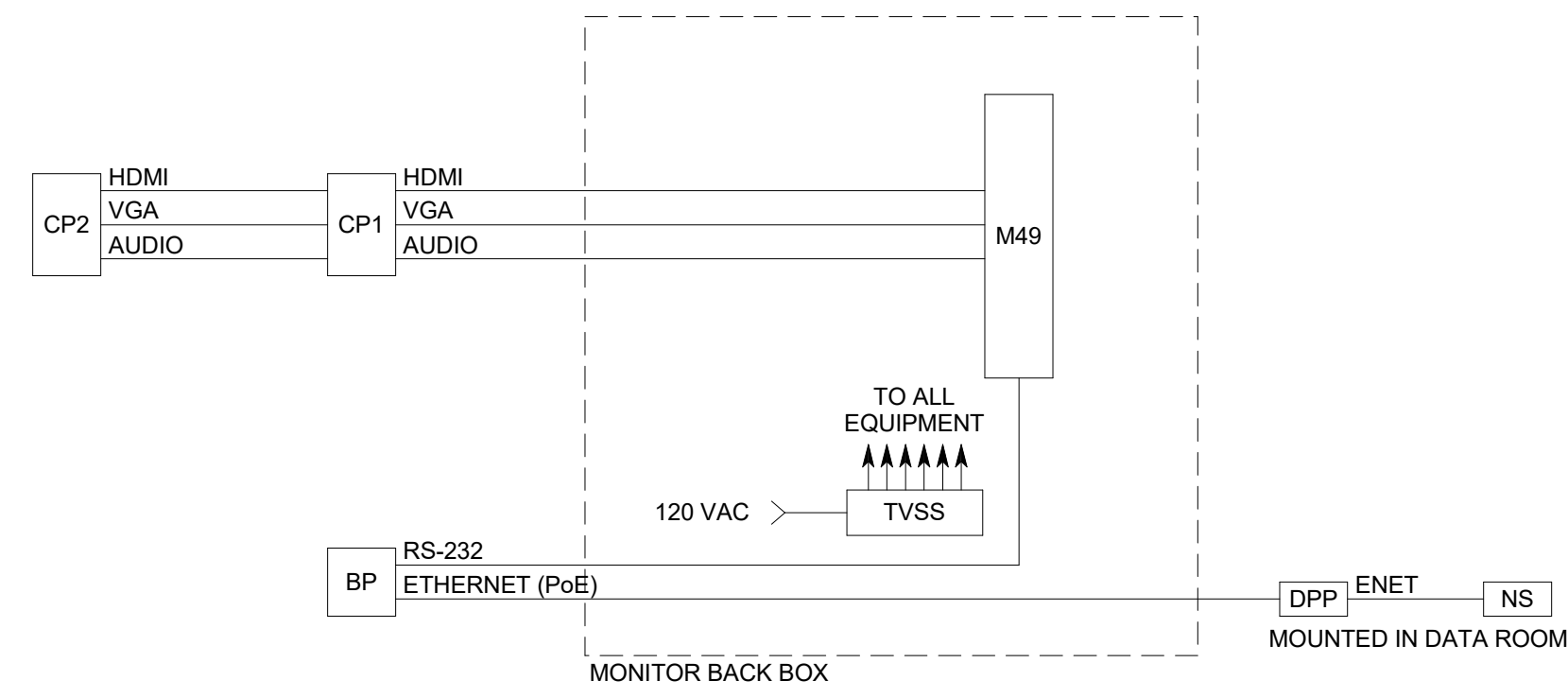
B4 MEDIUM COLLABORATION ROOM AV SYSTEM RISER DIAGRAM

NTS



A4 SMALL/MEDIUM COLLABORATION ROOM AV SYSTEM RISER DIAGRAM

NTS



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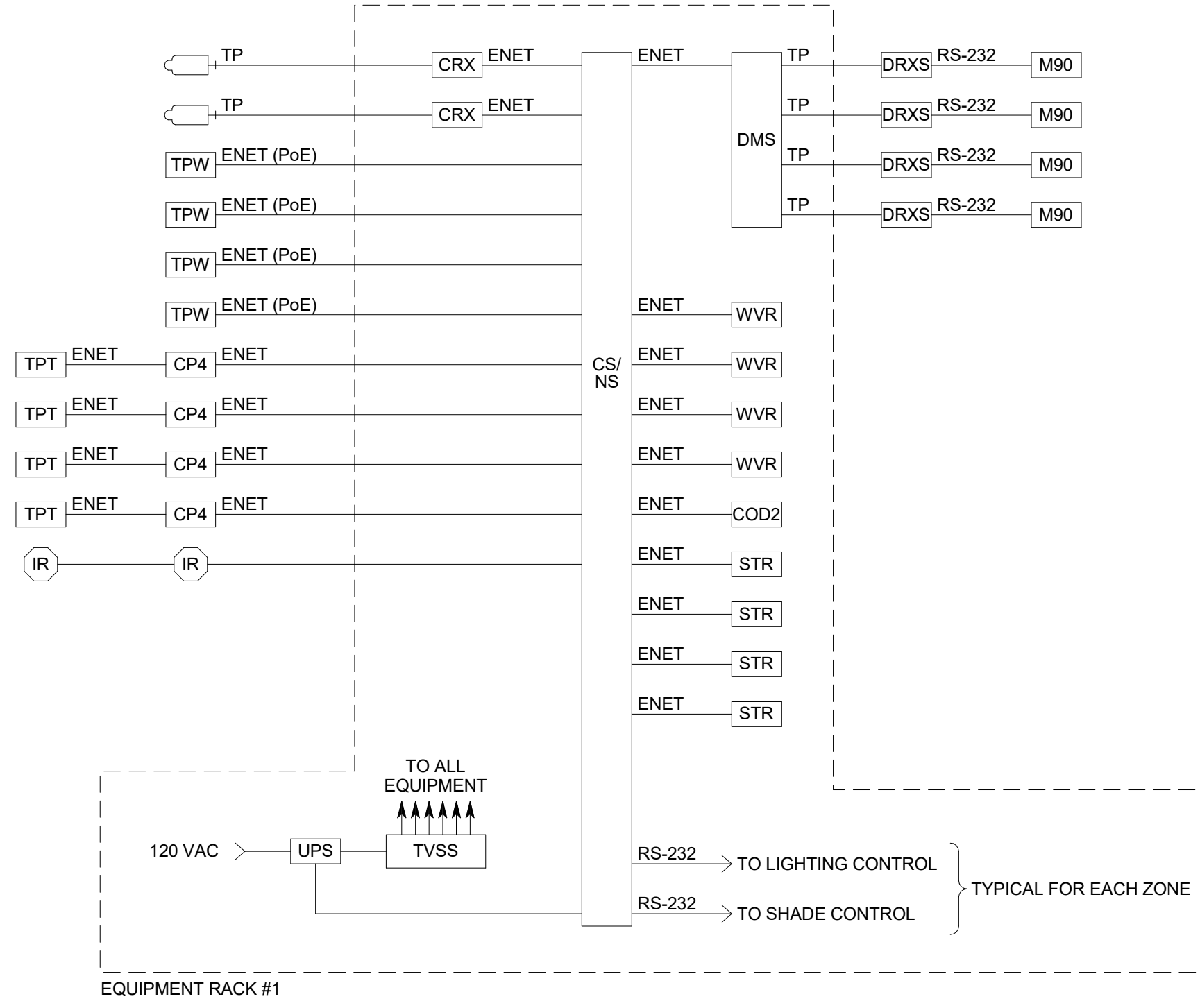
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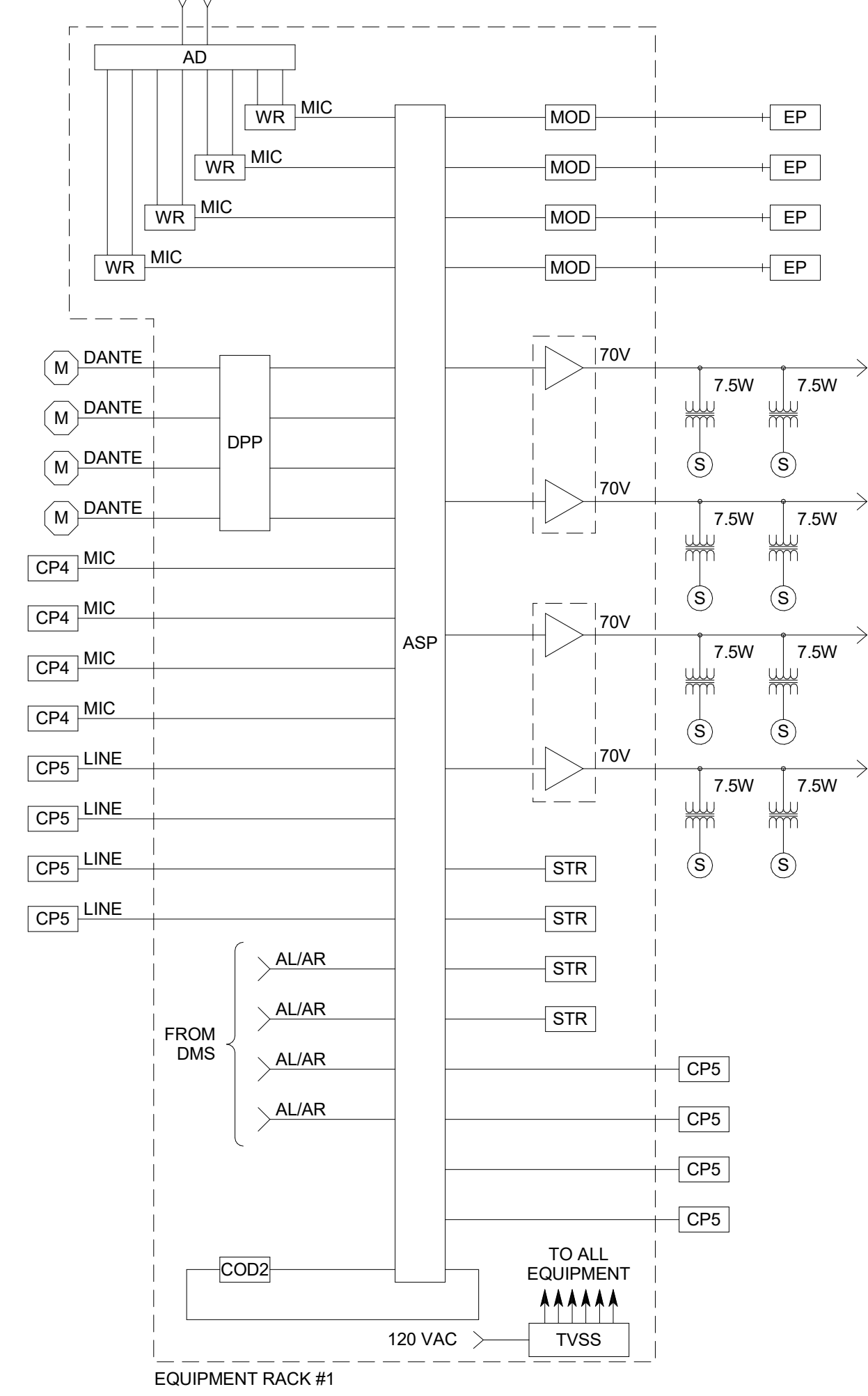
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16TH FLOOR MEETING ROOMS CONTROL SYSTEM RISER DIAGRAM
NO SCALE



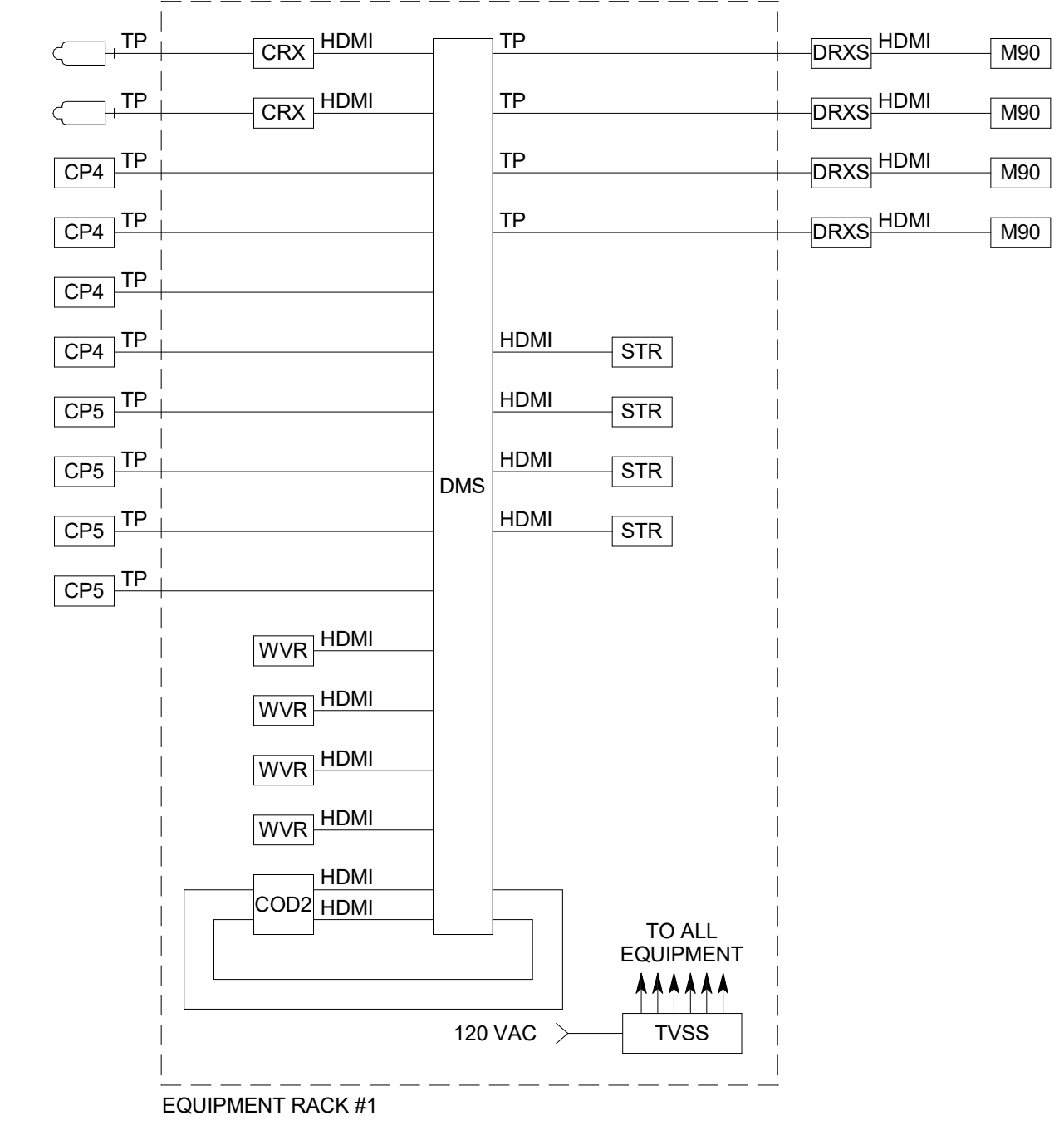
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16TH FLOOR MEETING ROOMS AUDIO SYSTEM RISER DIAGRAM
NO SCALE

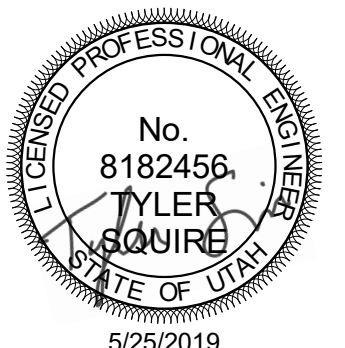


C4

16TH FLOOR MEETING ROOMS VIDEO SYSTEM RISER DIAGRAM
NO SCALE



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PROJECT DESCRIPTION

KEY BANK TOWER
LEVEL 10 AND 16 TI

36 S STATE ST, SLC UT 84111

AHJ STAMP

SHEET NAME:

AUDIO-VIDEO SYSTEMS
DIAGRAMS

REVISIONS

MARK	DATE	DESCRIPTION
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ISSUE DATE: 5/25/2019

ISSUE TYPE: PERMIT

DRAWN BY: JDA

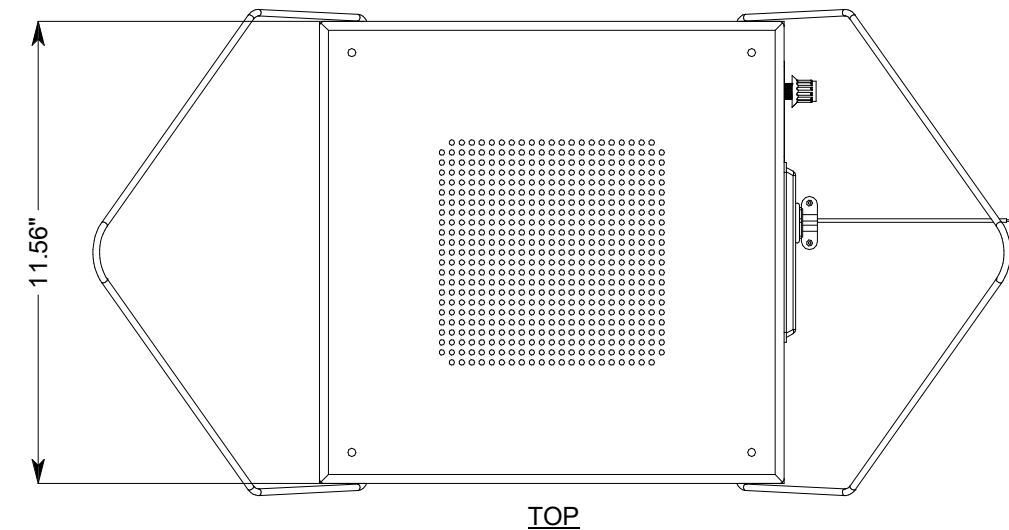
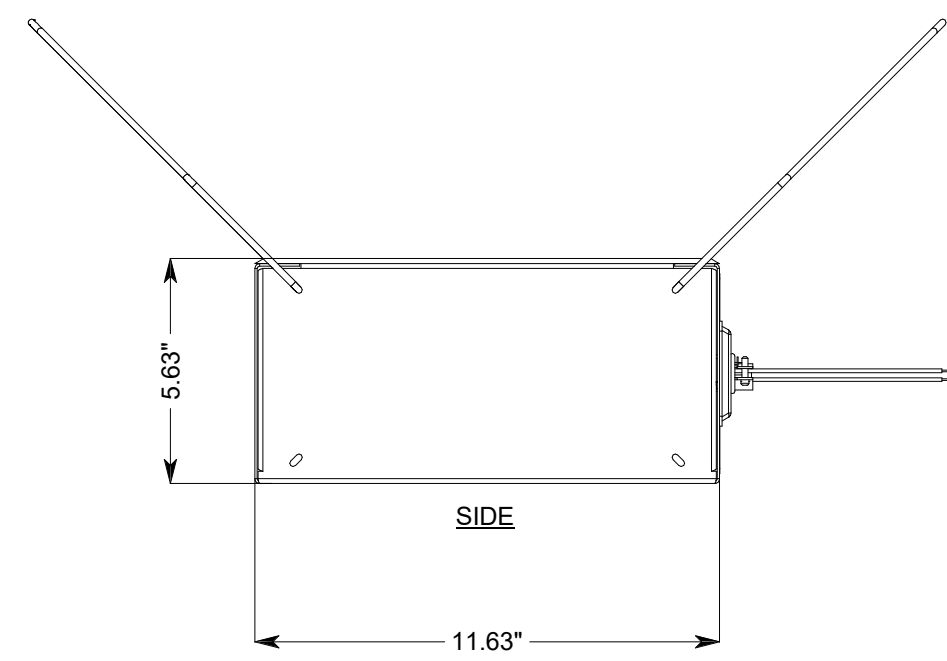
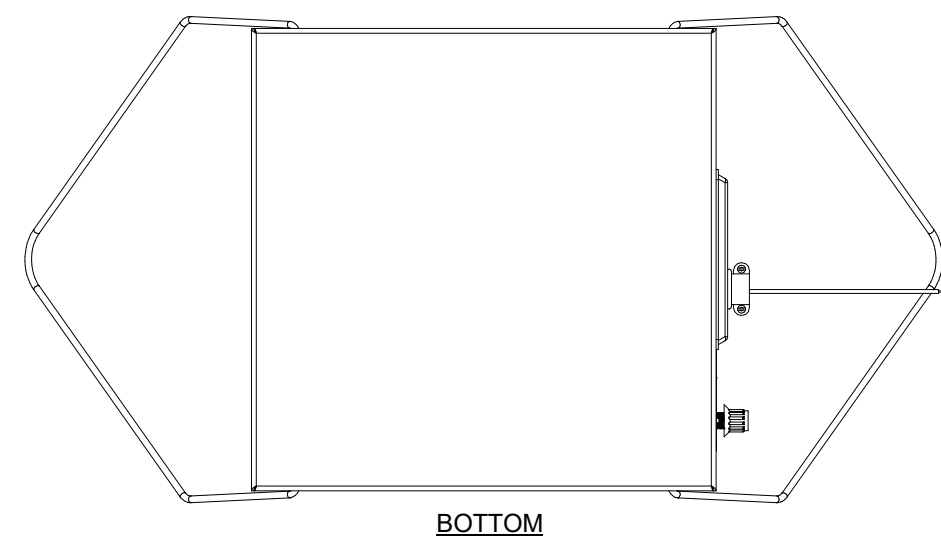
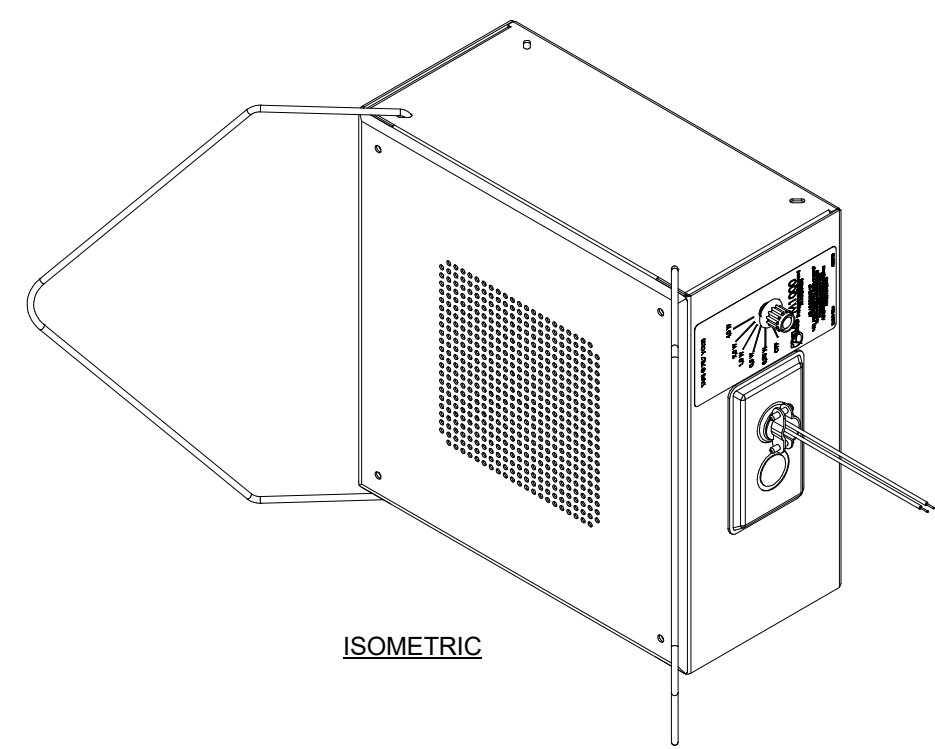
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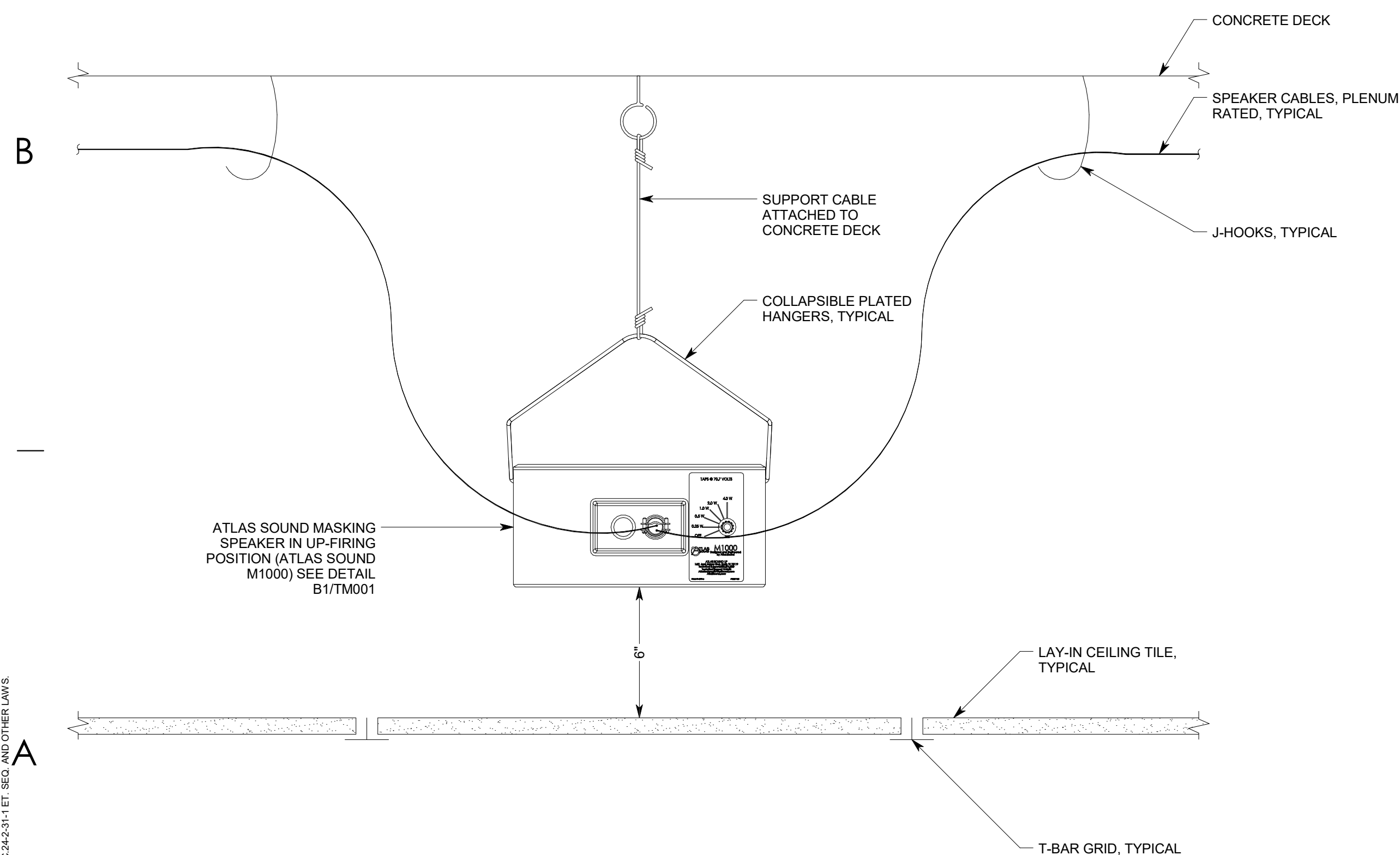
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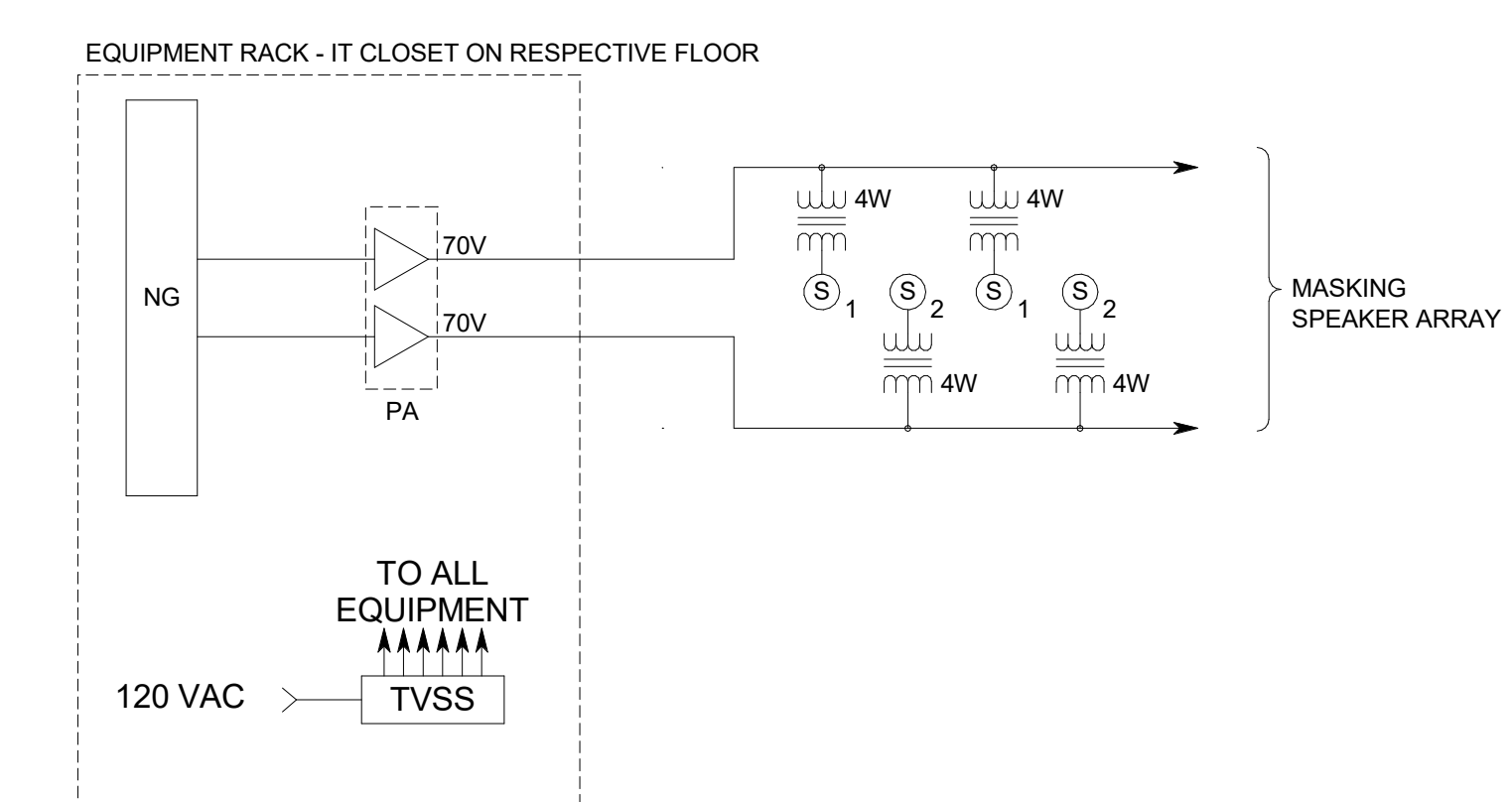
C1 SOUND MASKING SPEAKER DETAIL (ATLAS SOUND M1000)
NTS



A1 SOUND MASKING SPEAKER INSTALLATION DETAIL
NTS

SOUND MASKING SYSTEM EQUIPMENT LIST			
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SYMBOL	DESCRIPTION	QUANTITY	ACCEPTABLE TYPES
NG	MASKING NOISE GENERATOR, MULTI-CHANNEL W/ EQUALIZATION	0FP	ATLAS SOUND ASP-MG24 TDB
S _{1,2}	MASKING SPEAKER ASSEMBLY, UPWARD RADIATING W/ 8" SPEAKER, SUSPENSION CHAIN, AND ROTARY TAP SELECTION	0FP	ATLAS SOUND M1000, SEE DETAIL B1/TM001
PA	POWER AMPLIFIER, 4-CHANNEL, 70V, MINIMUM 200 WATTS PER CHANNEL	0FP	CROWN DCI 4-300 QSC-CX204V
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR, 20 AMP	0FP	TRIPP LITE IBAR12-20ULTRA
	J-HOOKS, SEE DETAIL D1/TM001	A/R	CADDY HILTI
	SPEAKER CABLE, PLENUM RATED, 16AWG, TWISTED PAIR	A/R	BELDEN 6200UE WEST PENN 252268

A/R = AS REQUIRED 0FP = OBTAIN FROM PLANS RMK = RACK MOUNT KIT



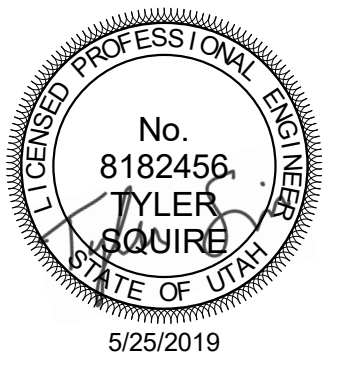
A3 SOUND MASKING SYSTEM RISER DIAGRAM
NTS (TYPICAL OF 10TH AND 16TH FLOORS)

SOUND MASKING NOTES

- CABLE SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/TIA/EIA 569-A, WHICH INCLUDES, BUT IS NOT LIMITED TO, THE SEPARATION OF THE CABLE TYPES AND THE USE OF J-HOOKS SPACED AT A MAXIMUM OF 5'-0" INTERVALS. SUPPORT J-HOOKS DIRECTLY FROM THE BUILDING STRUCTURE, NOT FROM OTHER BUILDING SYSTEM SUPPORT WIRES OR CABLES.
- INSTALL ALL EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, SEISMIC CODES, AND INDUSTRY-WIDE ACCEPTED RIGGING PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM STRUCTURE. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.



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PROJECT DESCRIPTION
KEY BANK TOWER
LEVEL 10 AND 16 TI

36 S STATE ST, SLC UT 84111
AHJ STAMP

SHEET NAME:
SOUND MASKING
DETAILS, DIAGRAMS,
NOTES, AND SCHEDULE

REVISIONS
MARK DATE DESCRIPTION

ISSUE DATE: 5/25/2019
ISSUE TYPE: PERMIT
DRAWN BY: SJT
CHECKED BY: AWA
PROJECT#: 1904.01

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