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SPECTRUM ENGINEERS Salt Lake City, UT 84111 800-678-7077 801-328-5151

ARCHITECT / CONSULTANT

324 S. State St., Suite 400 fax: 801-328-5155 www.spectrum-engineers.com

PROJECT DESCRIPTION

60 SOUTH TEMPLE, SALT LAKE CITY,

AHJ STAMP

PLUMBING DETAILS AND SCHEDULES

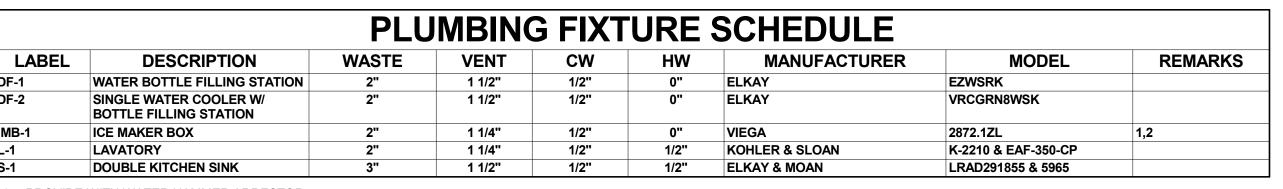
MARK DATE DESCRIPTION

01/19/2018 100% CD CLD

CHECKED BY: RHB 1750 PROJECT#:

SHEET NUMBER:

PE501

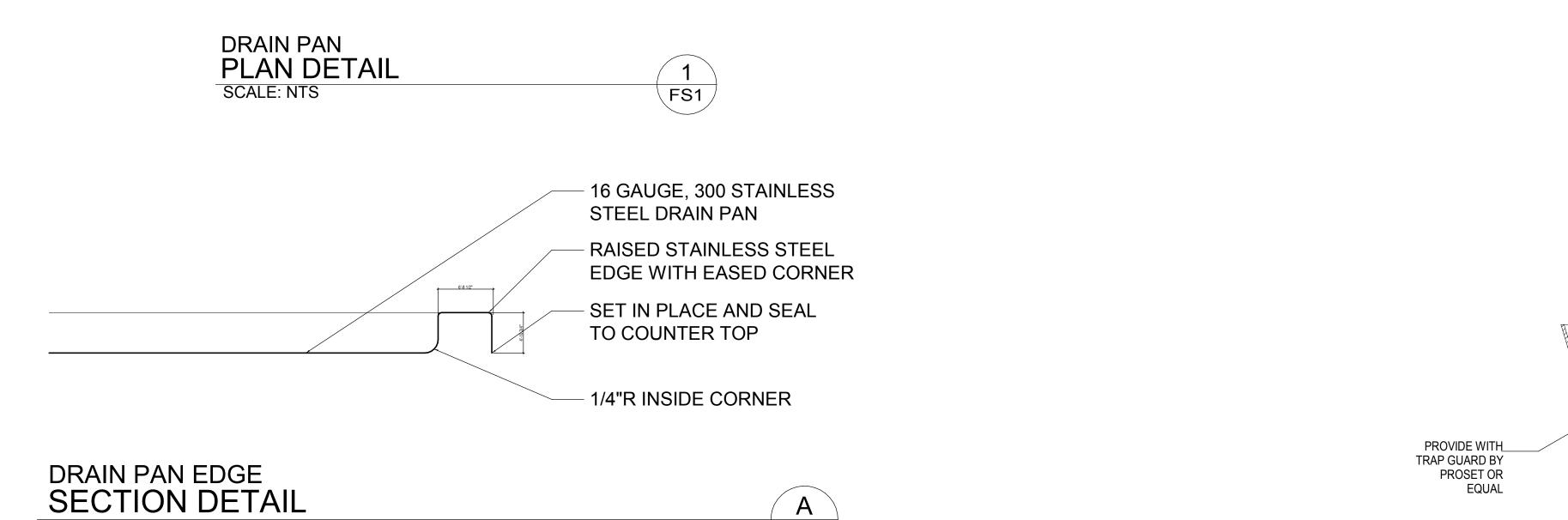


1. PROVIDE WITH WATER HAMMER ARRESTOR. 2. PROVIDE WITH SCOTSMAN SSM1-P OR PRIOR APPROVED WATER FILTER.

				W	ATER HE	ATER						
LABEL	LOCATION	TYPE	TEMP. RISE DEG. FARENHEIT	EFFICIENCY	MAX OPERATING PRESSURE	WEIGHT (LBS)	kW	AMPS	VOLTAGE	PHASE	MANUFACTURER	MODEL
WH-1	MOTHERS ROOM	INSTANTANEOUS TANKLESS	46	99%	150.00 psi	4	10	36 A	277 V	1	EEMAX	EX100T
WH-2	KITCHEN	INSTANTANEOUS TANKLESS	46	99%	150.00 psi	4	10	36 A	277 V	1	EEMAX	EX100T

CONDENSATE

- MAINTAIN 1" AIR GAP

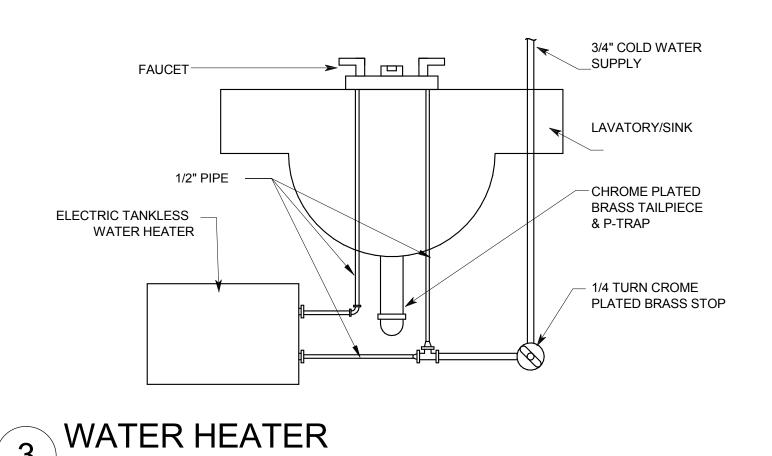


FS1

-1-1/4" NPT DRAIN

STEEL DRAIN PAN

16 GAUGE, 300 STAINLESS



CUSTOM STAINLESS STEEL COUNTERTOP DRAIN PAN

PROVIDE WITH 1-1/4" NPT DRAIN WELDED IN CENTER.

COUNTER. VERIFY DEPTH OF COUNTER TOP TO

SET IN PLACE ON COUNTER TOP WITH DRAIN THROUGH

NOTES:

SCALE: NTS

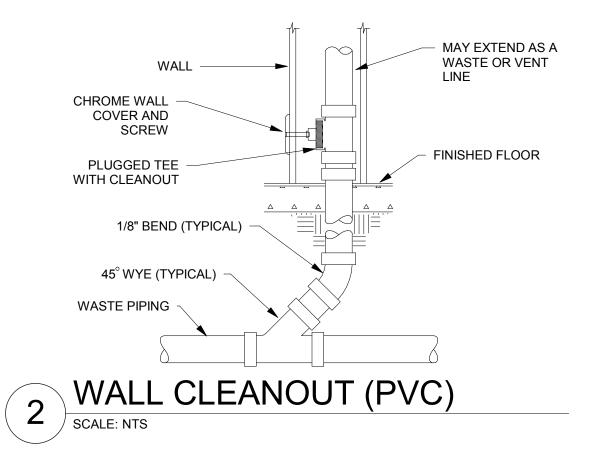
ICE MAKER BOX DRAIN PAN
SCALE: NTS

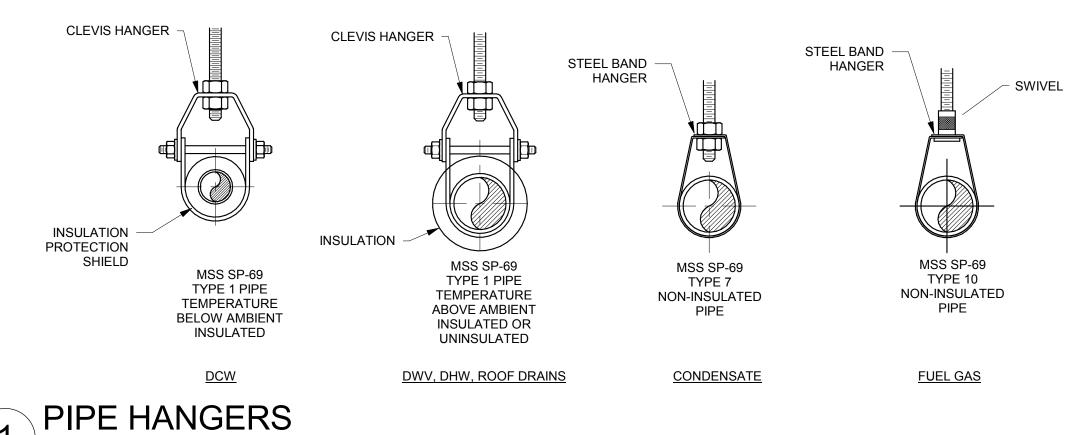
1. 1" WIDE SELF RIMMING EDGE.

FINISHED TOP AND SIDES.

16 GAUGE, 300 STAINLESS STEEL.

ACCOMMODATE DEPTH OF DRAIN





SINK

SCALE: NTS

FUNNEL DRAIN DETAIL
SCALE: NTS



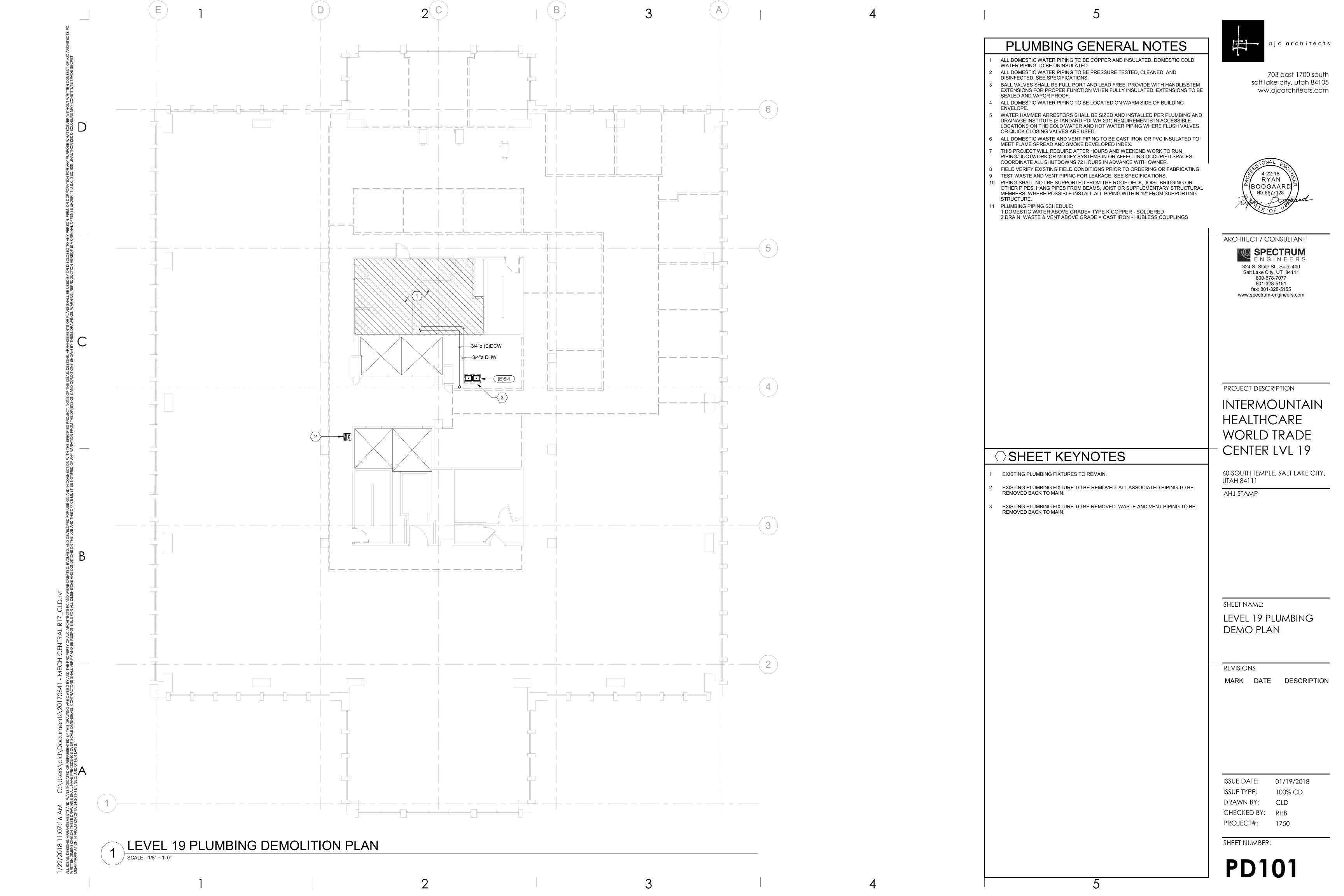
INTERMOUNTAIN HEALTHCARE WORLD TRADE — CENTER LVL 19

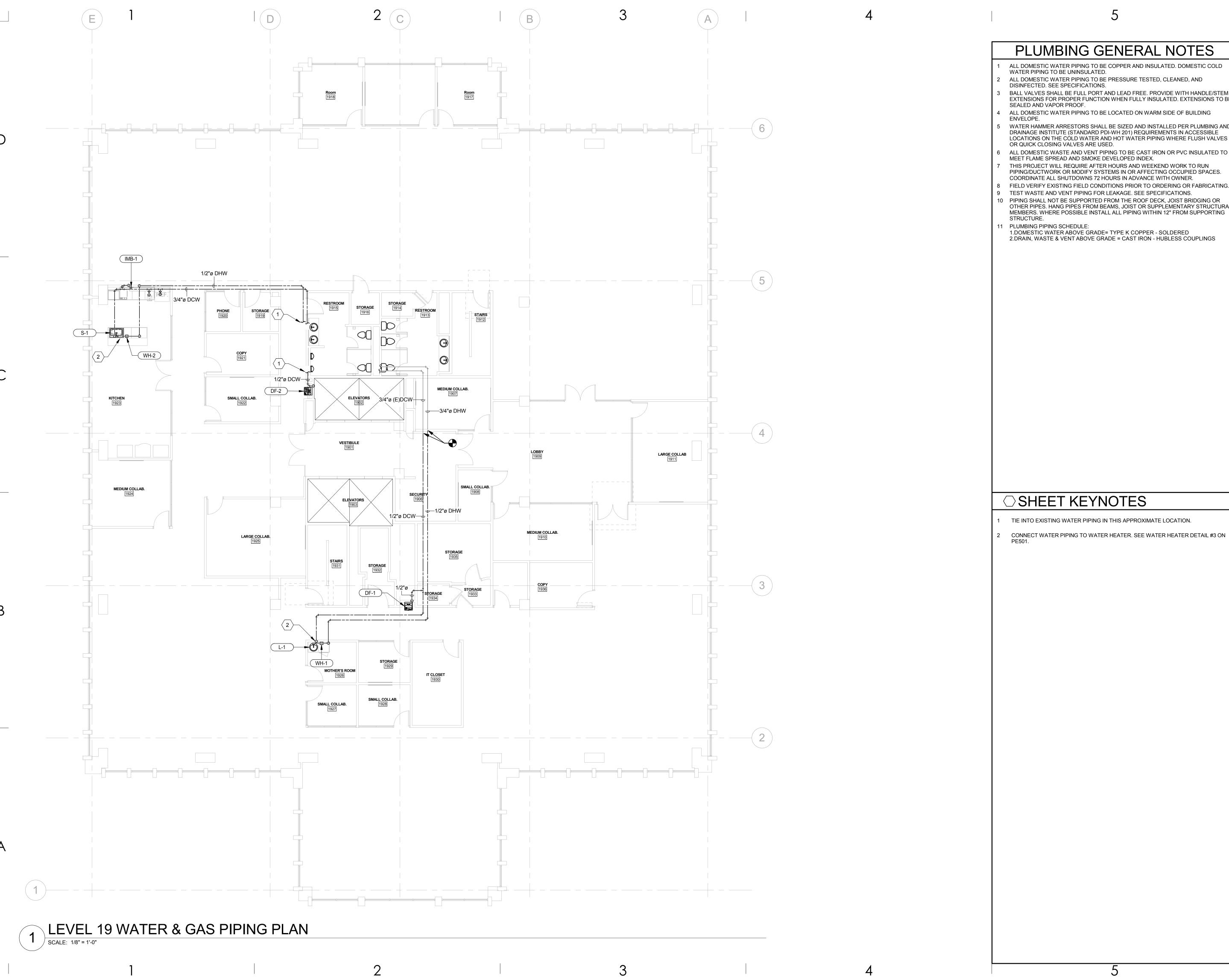
UTAH 84111

SHEET NAME:

REVISIONS

ISSUE DATE: DRAWN BY:





PLUMBING GENERAL NOTES

ALL DOMESTIC WATER PIPING TO BE COPPER AND INSULATED. DOMESTIC COLD

WATER PIPING TO BE UNINSULATED.

ALL DOMESTIC WATER PIPING TO BE PRESSURE TESTED, CLEANED, AND

DISINFECTED. SEE SPECIFICATIONS. BALL VALVES SHALL BE FULL PORT AND LEAD FREE. PROVIDE WITH HANDLE/STEM

EXTENSIONS FOR PROPER FUNCTION WHEN FULLY INSULATED. EXTENSIONS TO BE

ALL DOMESTIC WATER PIPING TO BE LOCATED ON WARM SIDE OF BUILDING

WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER PLUMBING AND DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER AND HOT WATER PIPING WHERE FLUSH VALVES OR QUICK CLOSING VALVES ARE USED.

ALL DOMESTIC WASTE AND VENT PIPING TO BE CAST IRON OR PVC INSULATED TO MEET FLAME SPREAD AND SMOKE DEVELOPED INDEX.

THIS PROJECT WILL REQUIRE AFTER HOURS AND WEEKEND WORK TO RUN PIPING/DUCTWORK OR MODIFY SYSTEMS IN OR AFFECTING OCCUPIED SPACES. COORDINATE ALL SHUTDOWNS 72 HOURS IN ADVANCE WITH OWNER.

FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. TEST WASTE AND VENT PIPING FOR LEAKAGE. SEE SPECIFICATIONS.

10 PIPING SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING WITHIN 12" FROM SUPPORTING STRUCTURE.

11 PLUMBING PIPING SCHEDULE:

1.DOMESTIC WATER ABOVE GRADE= TYPE K COPPER - SOLDERED 2.DRAIN, WASTE & VENT ABOVE GRADE = CAST IRON - HUBLESS COUPLINGS



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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LVL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

AHJ STAMP

SHEET NAME: LEVEL 19 WATER & GAS PIPING PLAN

REVISIONS

MARK DATE DESCRIPTION

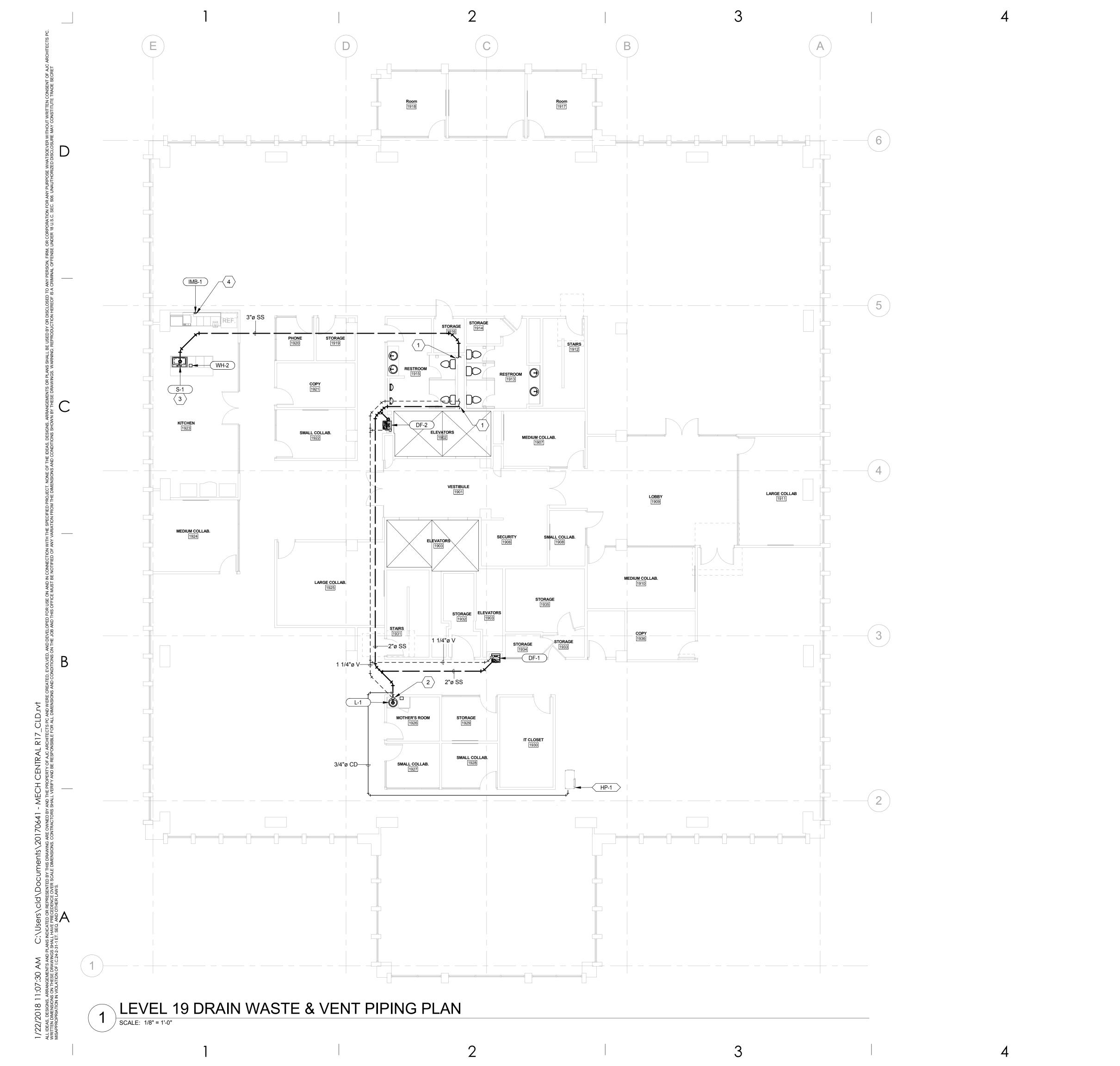
ISSUE DATE: 01/19/2018 100% CD

PROJECT#: 1750

DRAWN BY: CHECKED BY: RHB

SHEET NUMBER:

PL101



PLUMBING GENERAL NOTES

- ALL DOMESTIC WATER PIPING TO BE COPPER AND INSULATED. DOMESTIC COLD
- WATER PIPING TO BE UNINSULATED.
- ALL DOMESTIC WATER PIPING TO BE PRESSURE TESTED, CLEANED, AND DISINFECTED. SEE SPECIFICATIONS.
- BALL VALVES SHALL BE FULL PORT AND LEAD FREE. PROVIDE WITH HANDLE/STEM
- EXTENSIONS FOR PROPER FUNCTION WHEN FULLY INSULATED. EXTENSIONS TO BE SEALED AND VAPOR PROOF.
- ALL DOMESTIC WATER PIPING TO BE LOCATED ON WARM SIDE OF BUILDING
- WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER PLUMBING AND DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER AND HOT WATER PIPING WHERE FLUSH VALVES OR QUICK CLOSING VALVES ARE USED.
- ALL DOMESTIC WASTE AND VENT PIPING TO BE CAST IRON OR PVC INSULATED TO MEET FLAME SPREAD AND SMOKE DEVELOPED INDEX.
- THIS PROJECT WILL REQUIRE AFTER HOURS AND WEEKEND WORK TO RUN PIPING/DUCTWORK OR MODIFY SYSTEMS IN OR AFFECTING OCCUPIED SPACES. COORDINATE ALL SHUTDOWNS 72 HOURS IN ADVANCE WITH OWNER.
- FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. TEST WASTE AND VENT PIPING FOR LEAKAGE. SEE SPECIFICATIONS.
- 10 PIPING SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING WITHIN 12" FROM SUPPORTING STRUCTURE.
- 11 PLUMBING PIPING SCHEDULE:
- 1.DOMESTIC WATER ABOVE GRADE= TYPE K COPPER SOLDERED 2.DRAIN, WASTE & VENT ABOVE GRADE = CAST IRON - HUBLESS COUPLINGS



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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER LVL 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111

TIE INTO EXISTING WASTE AND VENT PIPING IN THIS APPROXIMATE LOCATION.

CONDENSATE TO RUN INTO SS PIPING. SEE FUNNEL DRAIN DETAIL #4 ON PE501.

PROVIDE WITH AIR ADMITTANCE VALVE.

○ SHEET KEYNOTES

PROVIDE WITH CUSTOM DRAIN PAN. SEE ICE MAKER BOX DRAIN PAN DETAIL ON PE501. ICE MAKER DRAINAGE TO TIE INTO SINK WASTE.

AHJ STAMP

SHEET NAME:

LEVEL 19 DRAIN, WASTE, & VENT PIPING PLAN

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATE: 01/19/2018 100% CD DRAWN BY:

CHECKED BY: RHB PROJECT#: 1750

SHEET NUMBER:

PL102

		SYMBOLS LEGEND
	SYMBOL	DESCRIPTION CE AND LINE SYMBOLS
	REFERENC	LE AND LINE STIMBOLS
	A5 E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	A5 E-201	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
\Box	ROOM NAME	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
D	(1)	KEYNOTE INDICATOR.
	1	REVISION INDICATOR.
	X-X XMDP	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
		BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING
	\sim	BREAK, ROUND
	MATCH LINE SEE XX/X-XXX	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
		NEW LINE: MEDIUM LINE.
		HIDDEN FEATURES LINE: HIDDEN, THIN LINE
		EXISTING TO REMAIN LINE: THIN LINE.
		DEMOLITION LINE: DASHED, MEDIUM LINE
		PROPERTY LINE: DASHED, WIDE LINE.
		CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.
\subset	XXX EF-X	ELECTRICAL EQUIPMENT INDICATOR. "XXX" INDICATES TYPE OF EQUIPMENT OR EQUIPMENT ID. "EF-X" IDENTIFIES MECHANICAL EQUIPMENT BEING SERVED. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	WIRING ME	THODS
		WIRING.
	0	WIRING TURNED UP OR TOWARDS OBSERVER.
	0	WIRING TURNED DOWN OR AWAY FROM OBSERVER.
	A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
	A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
	~~	FLEXIBLE WIRING.
В	— x —	WIRING AND/OR RACEWAY: THIN LINE. WHERE "X" = : CATV = CABLE TELEVISION NC = NURSE CALL CCTV = CLOSED CIRCUIT P = POWER TELEVISION RC = RIGID CONDUIT FA = FIRE ALARM S = SOUND FO = FIBER OPTICS T = TELEPHONE I = INTERCOM TV = TELEVISION OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED.
		LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
	+	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
	1	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
	Ф	JUNCTION BOX.
	⊕ _{SC}	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.
	<u> </u>	EARTH GROUND (ONE-LINE DIAGRAM).
	Фс	JUNCTION BOX, CEILING.
		LADDER RACK.
	LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS)
	(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
	(W-3)	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
Α	EM	EMERGENCY.
- \	NL	NIGHT LIGHT: DO NOT SWITCH.
	↑	EGRESS DIRECTION ARROW (EXIT SIGNS).
	LV	LOW VOLTAGE LIGHTING TRANSFORMER.
	8	EXIT SIGN: SINGLE FACE; CEILING MOUNTED

0) m == =	SYMBOLS LEGEND
	DESCRIPTION
WIRING DE	1
	RECEPTACLE, DUPLEX: NEMA 5-20R.
	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
<u></u>	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R. RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT
∯ DF	INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
d	RECEPTACLE, DUPLEX ON EMERGENCY POWER: NEMA 5-20R.
\bigoplus	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
#	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.
+	RECEPTACLE, QUADRAPLEX ON EMERGENCY POWER: NEMA 5-20R.
6	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
FB#	FLUSH FLOOR BOX. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
PT#	FLUSH FIRE RATED POKE THRU. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
Ф	SWITCH, DIMMER.
* *	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).
X \$3	SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).
\$P	SWITCH, PILOT LIGHT.
\$Т	SWITCH, TIMER OPERATED.
\$WP	SWITCH, WEATHERPROOF.
₩.	RECEPTACLE, SINGLE PLEX, WITH USB OUTLET
STRUCTU	RED CABLING
Δx	TELEPHONE, WALL MOUNTED ("X" INDICATES QUANTITY OF CABLES).
((👣))	DATA CONNECTION: WIRELESS ACCESS POINT (WAP). REQUIRES (2) DATA DROPS PER DEVICE
Δ_{M}	TELEPHONE, WALL MOUNTED: WALL PHONE.
▼X	OUTLET, DATA COMMUNICATION ("X" INDICATES QUANTITY OF CABLES).
4	OUTLET, BUILDING STANDARD COMBINATION TELEPHONE/ DATA COMMUNICATION.
▼	TWO-WAY EMERGENCY COMMUNICATION DEVICE PER IBC, WALL MOUNTED IN RECESSED BOX. TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED.
	LAN RACK, FLOOR STANDING.
D	DATA CABLE, CATEGORY 5 (ONE-LINE DIAGRAM).
V	VOICE CABLE, CATEGORY 3 (ONE-LINE DIAGRAM).
LIGHTING	CONTROL
* <	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
 -	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
<u> </u>	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
	OCCUPANCY SENSOR CONTROL RELAY.
*	VACANCY SENSOR, DUAL TECHNOLOGY,
<u> </u>	OMNI-DIRECTIONAL, CEILING. VACANCY SENSOR, DUAL TECHNOLOGY, WALL.
—————————————————————————————————————	PHOTOCELL.
SP	OCCUPANCY SENSOR, SWITCH PACK.
<u> </u>	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALI
**************************************	SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
** *	DIMMER SWITCH/OCCUPANCY SENSOR COMBO,
·	DUAL TECHNOLOGY, WALL. DIMMER SWITCH/VACANCY SENSOR
***	COMBO, DUAL TECHNOLOGY, WALL. LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER
a,b ⑤	"a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS)
DC	DIGITAL LIGHTING DIMMING CONTROLLER
LC	DIGITAL PLUG LOAD CONTROLLER
	-

DIGITAL LIGHTING ROOM CONTROLLER

SCHEDULE / DIAGRAM.

LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE

SYMBOLS LEGEND SYMBOL | DESCRIPTION ELECTRICAL POWER AND DISTRIBUTION VFC VFD VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM). \Box DISCONNECT SWITCH, FUSED. DISCONNECT SWITCH, UNFUSED. lacksquareSTARTER, COMBINATION WITH DISCONNECT SWITCH. STARTER OR MOTOR CONTROLLER. • PUSHBUTTON. PUSHBUTTONS, MOTOR CONTROL. PANELBOARD CABINET, FLUSH MOUNTED. PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION. PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION. DISTRIBUTION PANEL OR SWITCHBOARD. DP# FIRE ALARM FIRE ALARM CONTROL PANEL, SEMI-RECESSED. FIRE ALARM NOTIFICATION POWER SUPPLY. FTR FIRE ALARM TRANSPONDER OR TRANSMITTER. AUTOMATIC DOOR CLOSERS: DOOR CLOSERS SHALL BE FURNISHED WITH DOOR HARDWARE AND CONNECTED TO BY FIRE ALARM INSTALLERS. CONTROL MODULE. MONITOR MODULE. FIRE ALARM MANUAL PULL STATION. SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A MAGNETIC DOOR HOLDER DETECTOR, SMOKE. DETECTOR, SMOKE WITH AUXILIARY CONTACT. DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE. DETECTOR, HEAT. INDICATOR LAMP. STROBE. SUBSCRIPT INDICATES CANDELA RATING. SPEAKER, EVACUATION. SPEAKER, EVACUATION, COMBINATION STROBE. DETECTOR, FLOW SWITCH: FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS. DETECTOR, TAMPER SWITCH WITH VALVE: TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS SMOKE DAMPER.

		4	
	ABBREV	ΊΑΤΙ	IONS
	NOTE: ALL ABBREVIAT		
1P	SINGLE POLE	kV	KILOVOLT
1PH	SINGLE-PHASE	kVA	KILOVOLT AMPERE
1WAY 2/C	ONE-WAY TWO-CONDUCTOR	kVAR kW	KILOVOLT AMPERE REACTIVE KILOWATT
2WAY	TWO-WAY	kWh	KILOWATT HOUR
3/C	THREE-CONDUCTOR	LED	LIGHT EMITTING DIODE
3WAY	THREE-WAY	LFMC	LIQUID TIGHT FLEXIBLE METAL
4OUT	QUADRUPLE RECEPTACLE OUTLET	LFNC	CONDUIT LIQUID TIGHT FLEXIBLE
4PDT	FOUR-POLE DOUBLE THROW		NONMETALLIC CONDUIT
4PST	FOUR-POLE SINGLE THROW	LPS	LOW PRESSURE SODIUM
4W	FOUR-WIRE	LRA	LOCKED ROTOR AMPS
4WAY	FOUR-WAY	LTG LV	LIGHTING LOW VOLTAGE
A AC	ABOVE COUNTER ARMORED CABLE	MATV	MASTER ANTENNA TELEVISION
ADA	AMERICANS WITH DISABILITIES		SYSTEM
	ACT	MAX	MAXIMUM
ADJ	ADJACENT	MC	METAL CLAD
AFF	ABOVE FINISHED CRADE	MCA MCB	MINIMUM CIRCUIT AMPS MAIN CIRCUIT BREAKER
AFG AIC	ABOVE FINISHED GRADE AMPERE INTERRUPTING	MCC	MOTOR CONTROL CENTER
7110	CAPACITY	MCP	MOTOR CIRCUIT PROTECTION
ALUM	ALUMINUM	MDP	MAIN DISTRIBUTION PANEL
AMP	AMPERE	MG	MOTOR GENERATOR
ANN AP	ANNUNCIATOR ACCESS POINT (WIRELESS	MH MIN	MANHOLE MINIMUM
AF	DATA)	MLO	MAIN LUGS ONLY
AR	AS REQUIRED	MOCP	MAXIMUM OVERCURRENT
ASC	AMPS SHORT CIRCUIT		PROTECTION
ATS	AUTOMATIC TRANSFER SWITCH	NA	NOT APPLICABLE
AV	AUDIO VISUAL	NC NEC	NORMALLY CLOSED NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAGE	NEMA	NATIONAL ELECTRICAL
BB	BUCK-BOOST TRANSFORMER		MANUFACTURERS
XFMR C	CEILING MOUNTED	NFC	ASSOCIATION NATIONAL FIRE CODE
CATV	COMMUNITY ANTENNA	NFPA	NATIONAL FIRE CODE NATIONAL FIRE PROTECTION
0, 1, 1	TELEVISION		ASSOCIATION
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NL	NIGHT LIGHT
CCTV	CLOSED CIRCUIT TELEVISION	NO NTS	NORMALLY OPEN NOT TO SCALE
CF/CI	CONTRACTOR FURNISHED/	OC	ON CENTER
	CONTRACTOR INSTALLED	OCP	OVER CURRENT PROTECTION
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	OF/CI	OWNER FURNISHED/
CFBA	CUSTOM FINISH AS SELECTED	OE/O!	CONTRACTOR INSTALLED
	BY ARCHITECT	OF/OI	OWNER FURNISHED/ OWNER INSTALLED
CKT	CIRCUIT	OFP	OBTAIN FROM PLANS
CM CND	CONSTRUCTION MANAGER CONDUIT	OH DR	OVERHEAD (COILING) DOOR
CND	CONDUIT CONVENIENCE OUTLET	OL	OVERLOAD
COR	CONTRACTING OFFICER'S	PB PF	PUSHBUTTON POWER FACTOR
	REPRESENTATIVE	PF PH	PHASE
CP	CONTROL PANEL	PNL	PANEL
CT CTV	CURRENT TRANSFORMER CABLE TELEVISION	PT	POTENTIAL TRANSFORMER
CU	COPPER	PTZ	PAN/TILT/ZOOM
dBA	UNIT OF SOUND LEVEL	QTY	QUANTITY
DPDT	DOUBLE POLE, DOUBLE	R RCP	REMOVE REFLECTED CEILING PLAN
DC	THROW	RMC	RIGID METAL CONDUIT
DS EA	DISCONNECT SWITCH EACH	RNC	RIGID NONMETAL CONDUIT
EM	EACH EMERGENCY	RPM	REVOLUTIONS PER MINUTE
EMT	ELECTRICAL METALLIC TUBING	RR	REMOVE AND RELOCATE
ENT	ELECTRIC NONMETALLIC	S/S	START/STOP
EDC.	TUBING	SCA SCBA	SHORT CIRCUIT AMPS STANDARD COLOR AS
EPO EQUIP	EMERGENCY POWER OFF EQUIPMENT	3004	SELECTED BY ARCHITECT
FX	EQUIPMENT	SF	SQUARE FOOT (FEET)

GENERAL ELECTRICAL NOTES

CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS. CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC. SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.

A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.

B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.

THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.

SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.

REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

6. ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE **WORLD TRADE CENTER FLOOR 19**

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111-AHJ STAMP

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.

DEFINITIONS

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

ABBREVIATIONS, AND **GENERAL NOTES**

SHEET NAME:

SHEET INDEX,

REVISIONS

DESCRIPTION

ELECTRICAL SHEET INDEX

ET503 | TELECOM DETAILS ET504 TELECOM DETAILS ET505 | TELECOM DETAILS ET506 | TELECOM DETAILS ET601 | TELECOM DIAGRAMS

EY119 LEVEL 19 AUXILIARY PLAN

EJ119 LEVEL 19 AUDIO-VIDEO ROUGH-IN PLAN EJ501 AUDIO-VIDEO ROUGH-IN DETAILS EJ601 AUDIO-VIDEO ROUGH-IN SCHEDULES, NOTES, AND RISER DIAGRAMS

TM001 SOUND MASKING SYSTEM DETAILS, DIAGRAM, NOTES, AND SCHEDULE

ISSUE DATE: 1/19/2018 ISSUE TYPE: 100% CD DRAWN BY: CHECKED BY: TDS

PROJECT#:

SHEET NUMBER:

ELECTRICAL SHEET INDEX

STANDARD FINISH AS

SPEC SPECIFICATION

SWBD SWITCHBOARD

SWGR SWITCHGEAR

SINGLE THROW

TWIST LOCK

TWISTED PAIR

TELEVISION

SUPPRESSER

UNDERFLOOR

VOLT AMPERE

CONTROLLER

WEATHERPROOF

UGND UNDERGROUND

SUPPLY

WITHOUT

XFMR TRANSFORMER

VOLTS

TELEPHONE POLE

SELECTED BY ARCHITECT

SURGE PROTECTIVE DEVICE

SINGLE POLE, DOUBLE THROW

SINGLE POLE, SINGLE THROW

TELEPHONE TERMINAL BOARD

TRANSIENT VOLTAGE SURGE

UNINTERRUPTIBLE POWER

VFC/VF VARIABLE FREQUENCY MOTOR

SFBA

SPST

TTB

TVSS

UPS

W/O

EX

FOB

FVNR

GEN

GFCI

GFP

HD

HID

HOA

HPF

HPS

HV

HZ

IG

IN/IS

EXISTING

FIRE ALARM

FULL LOAD AMPS

FULL VOLTAGE

GROUND

GENERATOR

HEAVY DUTY

HORSE POWER

HIGH VOLTAGE

INPUT/ OUTPUT

ISOLATED GROUND

INTERMEDIATE METAL

INSULATED/ ISOLATED

HERTZ

CONDUIT

INFRARED

J-BOX JUNCTION BOX

NON-REVERSING

FREIGHT ON BOARD

FURNITURE MOUNTED

FIRE ALARM CONTROL PANEL

FLEXIBLE METAL CONDUIT

FULL VOLTAGE REVERSING

GROUND FAULT INTERRUPTER

GROUND FAULT PROTECTION

HIGH INTENSITY DISCHARGE

HAND-OFF-AUTOMATIC

HIGH POWER FACTOR

HIGH PRESSURE SODIUM

EE001	SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES
EE501	ELECTRICAL DETAILS
EE701	TYPICAL MOUNTING HEIGHT DETAILS
EE702	TYPICAL MOUNTING HEIGHT DETAILS
ED119	LEVEL 19 DEMOLITION PLAN
EP119	LEVEL 19 POWER PLAN
EP601	EQUIPMENT SCHEDULE
EL119	LEVEL 19 LIGHTING PLAN
EL219	LIGHTING ZONE PLAN
EL601	INTERIOR LIGHTING FIXTURE SCHEDULE
EL602	LIGHTING CONTROL SCHEDULES
ET001	TELECOM SCHEDULES AND NOTES
ET119	LEVEL 19 TELECOM PLAN
ET501	TELECOM ELEVATIONS
ET502	TELECOM DETAILS

EE001	SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES
EE501	ELECTRICAL DETAILS
EE701	TYPICAL MOUNTING HEIGHT DETAILS
EE702	TYPICAL MOUNTING HEIGHT DETAILS
ED119	LEVEL 19 DEMOLITION PLAN
EP119	LEVEL 19 POWER PLAN
EP601	EQUIPMENT SCHEDULE
EL119	LEVEL 19 LIGHTING PLAN
EL219	LIGHTING ZONE PLAN
EL601	INTERIOR LIGHTING FIXTURE SCHEDULE
EL602	LIGHTING CONTROL SCHEDULES
ET001	TELECOM SCHEDULES AND NOTES
ET119	LEVEL 19 TELECOM PLAN

FIRE AND SMOKE DAMPER.

INDICATES CANDELA RATING.

CANDELA RATING.

ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED.

ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES

ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT

SUBSCRIPT INDICATES CANDELA RATING.

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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE — CENTER FLOOR 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111— AHJ SIAMP

SHEET NAME:

ELECTRICAL DETAILS

DESCRIPTION

REVISIONS

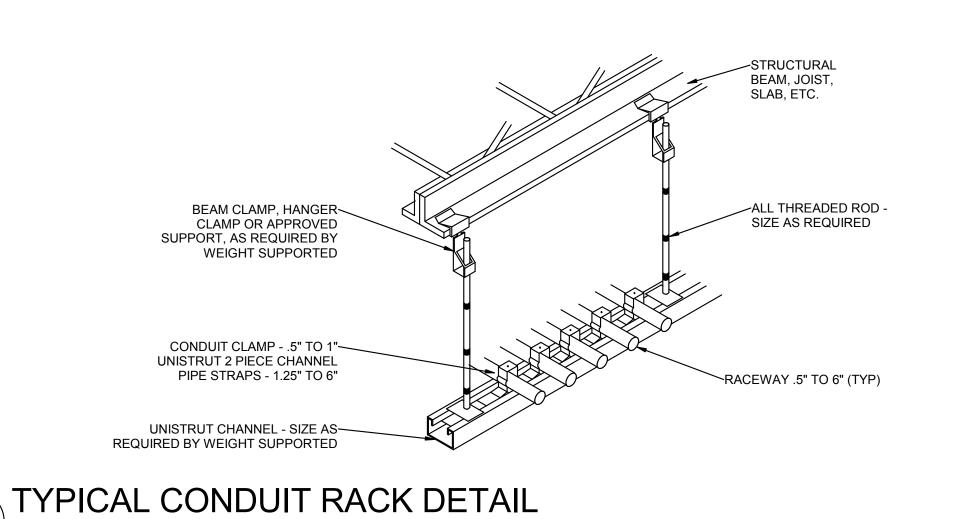
ISSUE DATE: 02/24/15

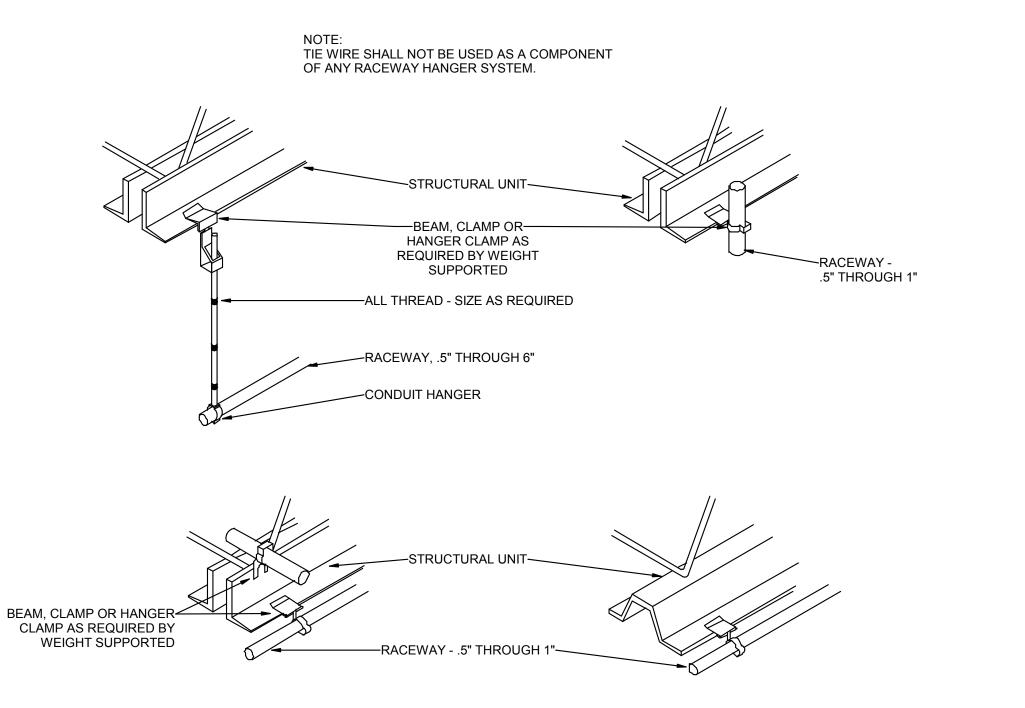
ISSUE TYPE: 100% CD DRAWN BY: Author CHECKED BY: Checker

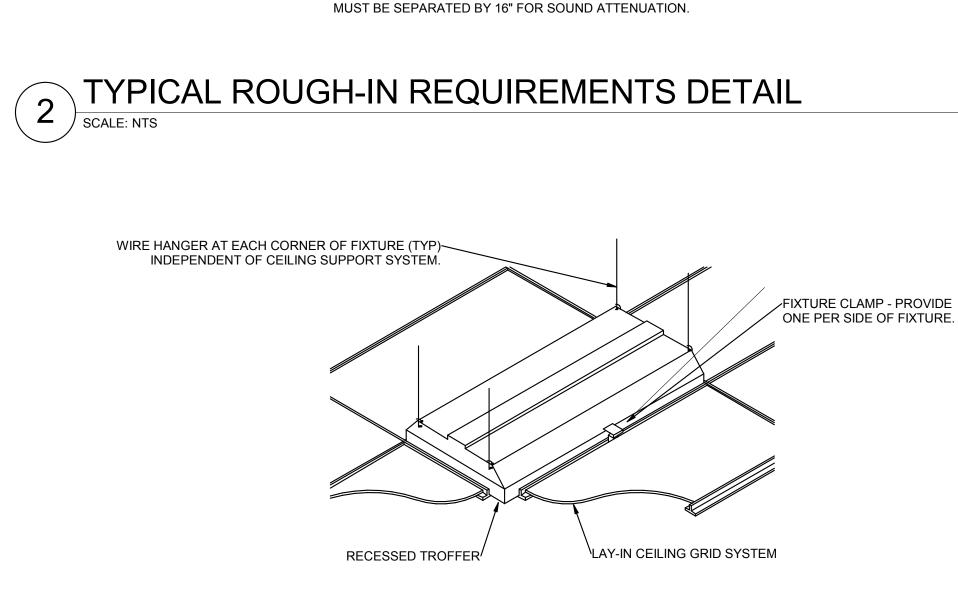
PROJECT#: 1750

SHEET NUMBER:

EE501







BAR STRAPS

NOTES:

—PROVIDE CONDUIT SUPPORTS IN ACCORDANCE WITH NEC SPACING REQUIREMENTS FOR TYPE OF RACEWAY REQUIRED.

[√]BAR STRAPS

AS REQUIRED FOR TYPE OF CONSTRUCTION.

TYPICAL \$
OUTLET BOX

—BAR STRAPS

TYPICAL— OUTLET BOX

3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.

4. IN ACCORDANCE WITH IBC 714.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY A MINIMUN OF 24" HORIZONTAL DISTANCE.

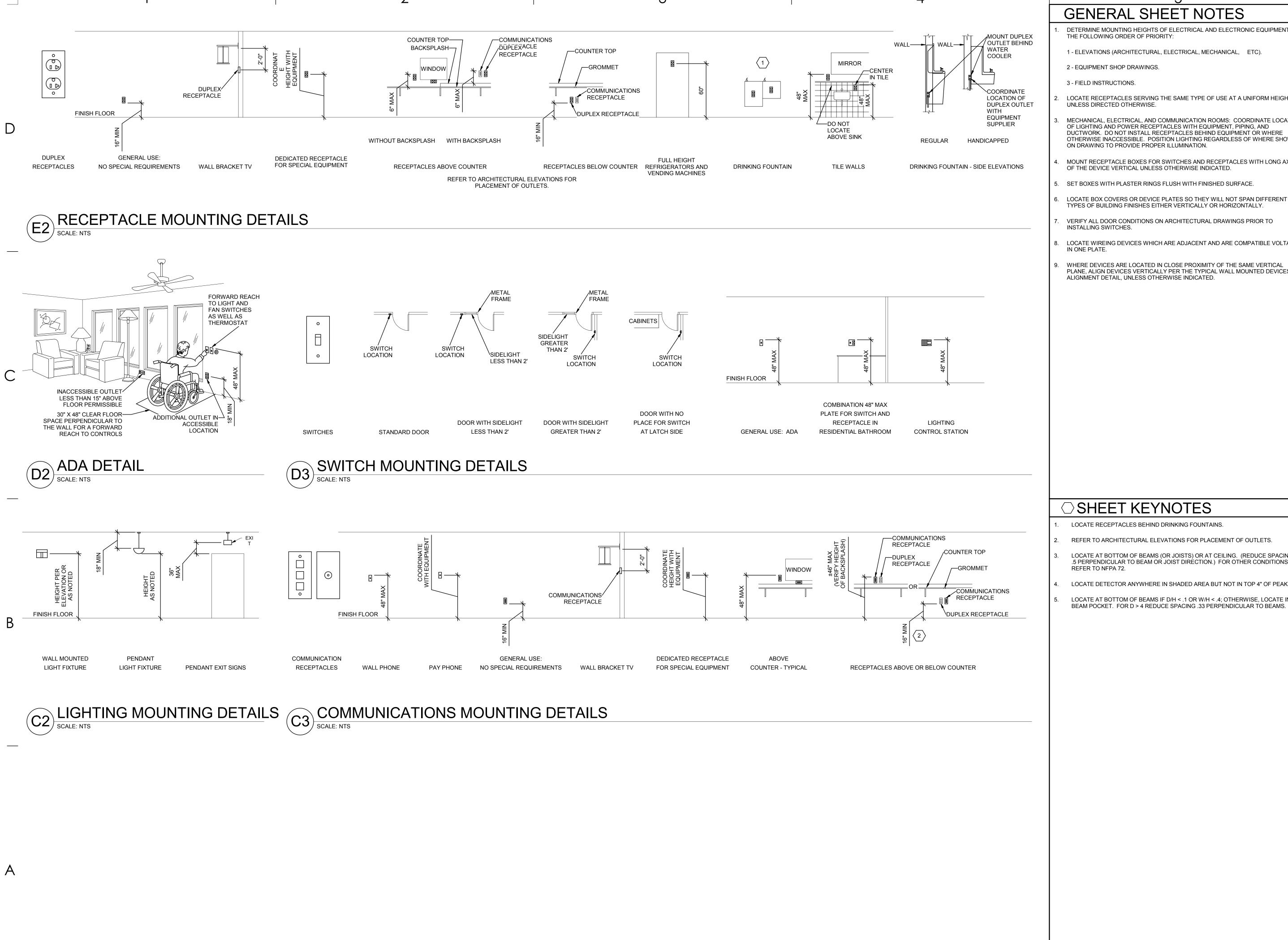
5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS

1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.

2. PLASTER RINGS NOT SHOWN.

TYPICAL RACEWAY SUPPORT METHODS DETAIL

RECESSED FIXTURE MOUNTING DETAIL



DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN

1 - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).

LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT

MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.

MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.

5. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.

LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.

VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO

LOCATE WIREING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES

WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE **WORLD TRADE** CENTER FLOOR 19

○ SHEET KEYNOTES

LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS

LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING B) .5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS,

LOCATE DETECTOR ANYWHERE IN SHADED AREA BUT NOT IN TOP 4" OF PEAK.

LOCATE AT BOTTOM OF BEAMS IF D/H < .1 OR W/H < .4; OTHERWISE, LOCATE IN

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111-AHJ STAMP

SHEET NAME:

TYPICAL MOUNTING HEIGHT DETAILS

REVISIONS

DESCRIPTION

ISSUE DATE: 07/30/09 100% CD DRAWN BY: CHECKED BY: Checker

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PROJECT#: 1750



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PROJECT DESCRIPTION

INTERMOUNTAIN
HEALTHCARE
WORLD TRADE
CENTER FLOOR 19

SHEET NAME:

TYPICAL MOUNTING HEIGHT DETAILS

DESCRIPTION

REVISIONS

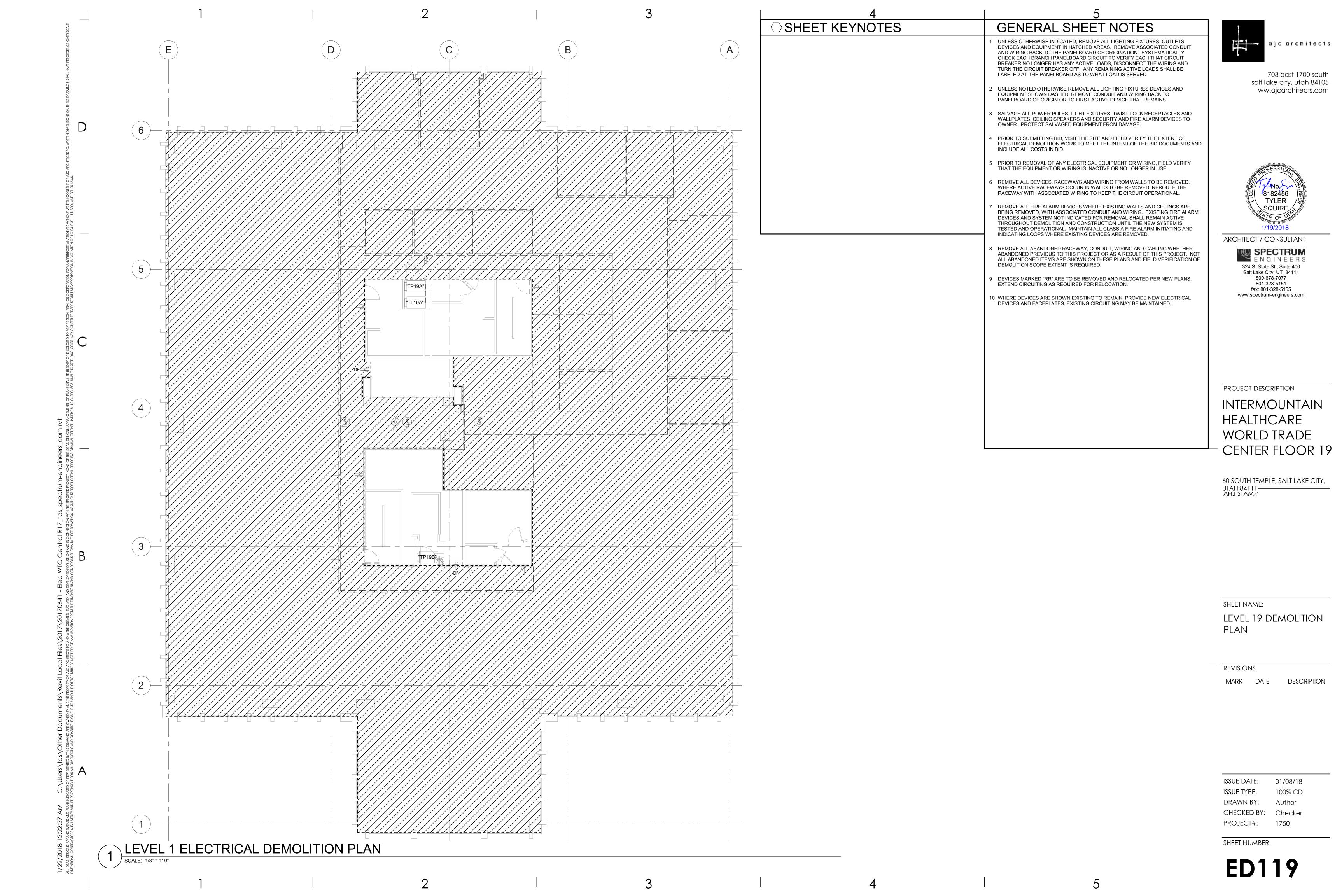
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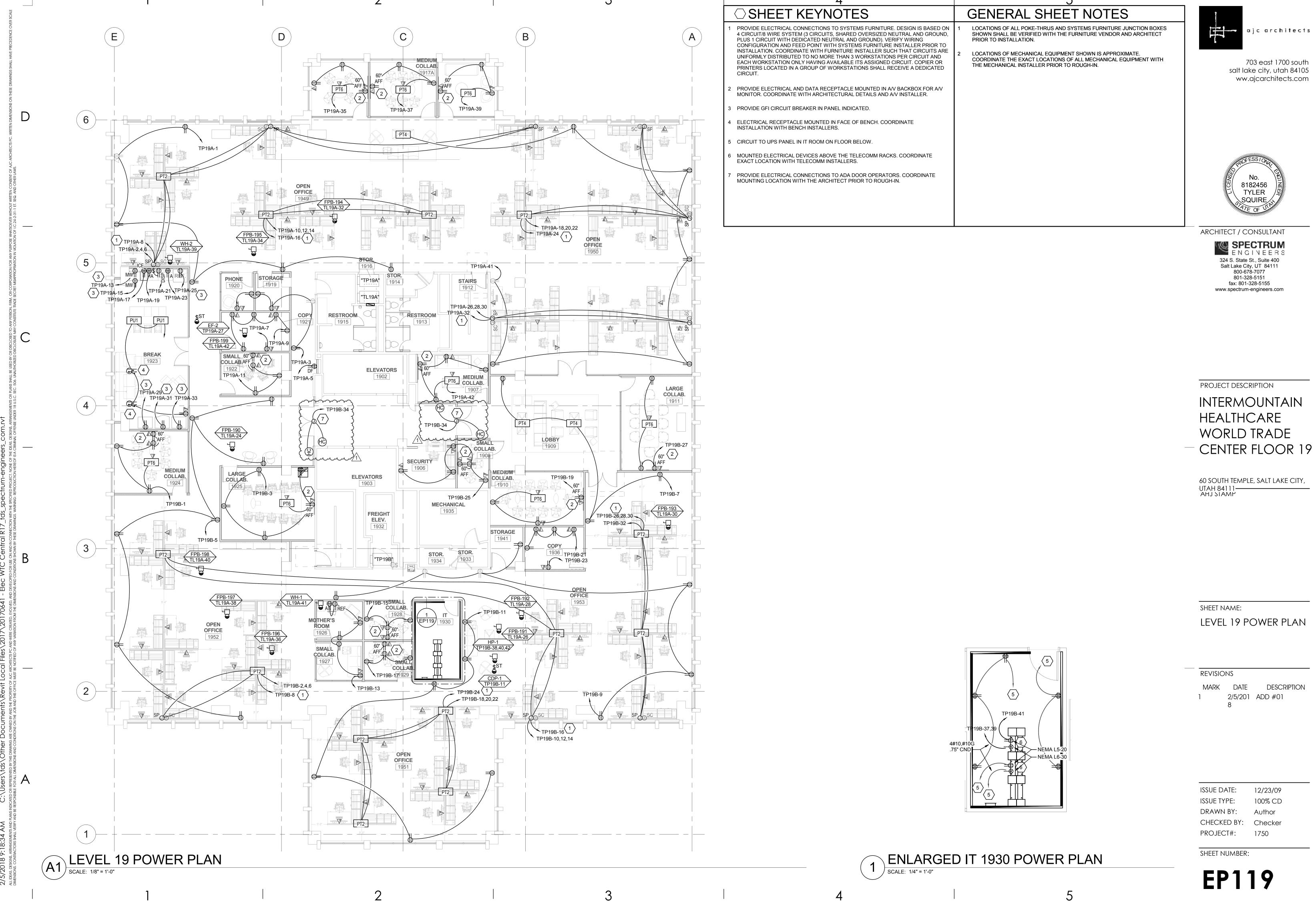
ISSUE DATE: 10/26/17
ISSUE TYPE: 100% CD
DRAWN BY: Author

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SHEET NUMBER:

EE702





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EQUIPMENT SCHEDULE

EQUIPMENT SCHEDULE KEY

E - DIVISION 26

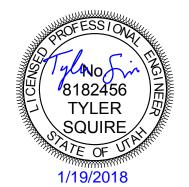
Q - FURNISHED WITH EQUIPMENT - COORDINATE WITH THE DIVISION 23 TEMPERATURE CONTROL INSTALLER

** - AUTOMATIC CONTROL WIRING BY DIVISION 23

					LOA	AD DA	TA					OVERCURI PROTECT			DISCONN	ECT				S	TARTER	₹				
MARK	QTY	ITEM DESCRIPTION	НР	kW	MCA	FLA	VOL T	PH	Hz	WIRE AND CONDUIT SIZE	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	SIZES	SELECTOR SWITCH		NORMALLY OPEN CONTACT	NORMALLY CLOSED CONTACT	PHASE FAILURE RELAY	NOTES	MARK
CDP-1	1	CONDENSATE PUMP	1/6	-	-	10	120	1	60	2 #12, #12 GR 0.75" CND	Е	20/1 CB	TP19B	Е	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		CDP-1
EF-2	1	EXHAUST FAN	1/6	-	-	10	120	1	60	2 #12, #12 GR 0.75" CND	Е	20/1 CB	TP19A	Е	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		EF-2
FPB-190	1	FAN POWERED BOX	-	-	-	6.8	277	1	60	2 #12, #12 GR 0.75" CND	Е	20/1 CB	TL19A	Е	30A/1P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		FPB-190
FPB-191	1	FAN POWERED BOX	-	-	-	6.8	277	1	60	2 #12, #12 GR 0.75" CND	Е	20/1 CB	TL19A	Е	30A/1P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		FPB-191
FPB-192	1	FAN POWERED BOX	-	-	-	6.8	277	1	60	2 #12, #12 GR 0.75" CND	E	20/1 CB	TL19A	Е	30A/1P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		FPB-192
FPB-193	1	FAN POWERED BOX	-	-	-	6.8	277	1	60	2 #12, #12 GR 0.75" CND	E	20/1 CB	TL19A	Е	30A/1P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		FPB-193
FPB-194	1	FAN POWERED BOX	-	-	-	6.8	277	1	60	2 #12, #12 GR 0.75" CND	E	20/1 CB	TL19A	Е	30A/1P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		FPB-194
FPB-195	1	FAN POWERED BOX	-	-	-	6.8	277	1	60	2 #12, #12 GR 0.75" CND	E	20/1 CB	TL19A	Е	30A/1P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		FPB-195
FPB-196	1	FAN POWERED BOX	-	-	-	6.8	277	1	60	2 #12, #12 GR 0.75" CND	Ш	20/1 CB	TL19A	Е	30A/1P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		FPB-196
FPB-197	1	FAN POWERED BOX	-	-	-	6.8	277	1	60	2 #12, #12 GR 0.75" CND	Ш	20/1 CB	TL19A	E	30A/1P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		FPB-197
FPB-198	1	FAN POWERED BOX	-	-	-	6.8	277	1	60	2 #12, #12 GR 0.75" CND	Ш	20/1 CB	TL19A	Е	30A/1P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		FPB-198
FPB-199	1	FAN POWERED BOX	-	-	-	6.8	277	1	60	2 #12, #12 GR 0.75" CND	E	20/1 CB	TL19A	Е	30A/1P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		FPB-199
HP-1	1	WATER SOURCE HEAT PUMP	3	-	-	13	208	3	60	3 #12, #12GR 0.75" CND	E	20/3 CB	TP19B	Е	30A/3P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		HP-1
WH-1	1	WATER HEATER	-	10	-	36	277	1	60	2 #4, #8 GR 1" CND	E	60/1 CB	TL19A	Е	60A/1P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		WH-1
WH-2	1	WATER HEATER	-	10	-	36	277	1	60	2 #4, #8 GR 1" CND	Е	60/1 CB	TL19A	Е	60A/1P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		WH-2

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PROJECT DESCRIPTION INTERMOUNTAIN HEALTHCARE **WORLD TRADE**

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111— AHJ SIAMP

CENTER FLOOR 19

SHEET NAME: EQUIPMENT SCHEDULE

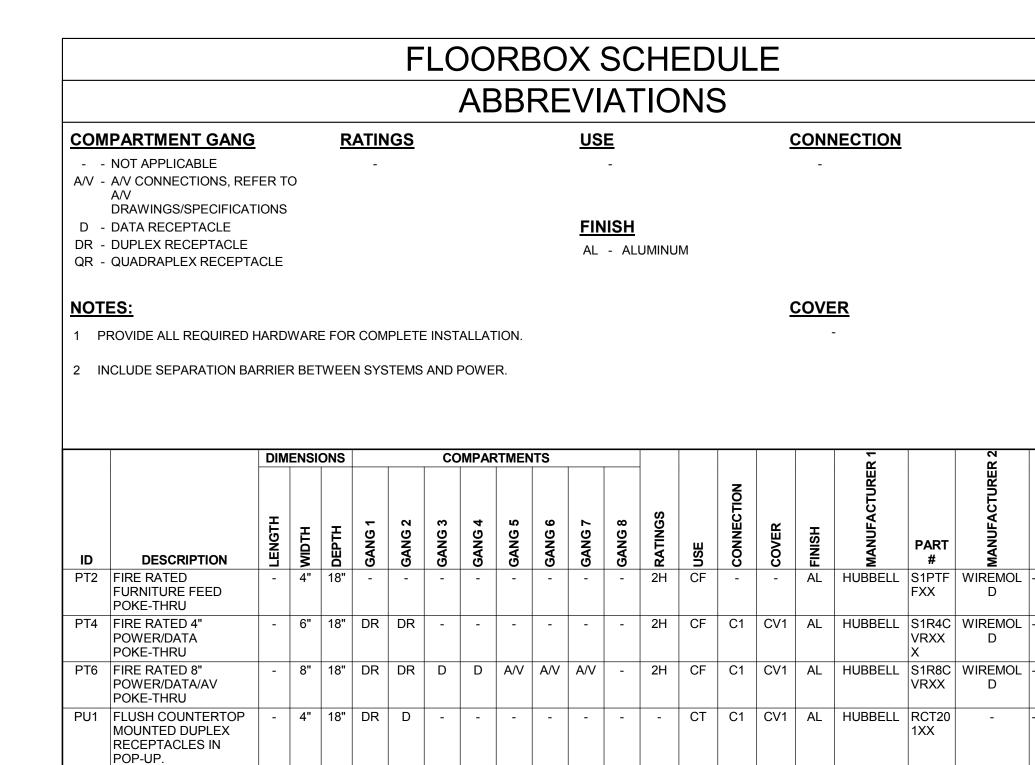
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ISSUE DATE: 10/25/13 ISSUE TYPE: 100% CD DRAWN BY: Author CHECKED BY: Checker PROJECT#: 1750

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EP601

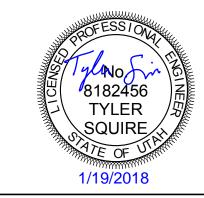


	EXISTING PANEL: "TP19A"																			
						EXIST	ING PA	<u> </u>	ΙE	<u>L:</u>	<u>'''</u>	ſΡ	19)A"						
VOLT	S/PHA	SE/WIR	E: F	PANEL	SIZE	& TYPE:	MAIN SIZE AND	ГҮРЕ	:		LOC	ATIO	N:	CABINET:		N	OTES) :		
120/20	08V, 3 I	PH 4 WI	RE 2	22" W x	6" D,	BOLT-ON	225 AMPERE MA	IN LU	JGS		STO	R. 19	16	SURFACE						
ACCE	SSOR	IES:	F	PANEL	DIRE	CTORY, IDENTIFICA	ATION, GROUNDIN	NG B	AR					Ald	RATI	NG : 0				
СКТ	О	СР	LC	AD (k	VA)				Р	HASE	LOA	D			LC	AD (k\	/A)	OC	P	СКТ
NO	AMP	POLE	LTG	PWR	СО	DESCRI	PTION		Α	E	3	(2	DESCRIPTION	СО	PWR	LTG	POLE	AMP	NO
1	20	1	0.0	0.0	1.1	CO: OPEN O	FFICE 1949	1.1	1.1					PWR: NORTH WORKSTATIONS	0.3	2.9	0.0	3	20	2
3	20	1	0.0	0.0	1.1	CO: PHONE	/STORAGE			1.1	1.1									4
5	20	1	0.0	0.7	0.0	PWR: DRINKIN	IG FOUNTAIN					0.7	1.1							6
7	20	1	0.0	1.0	0.0	PWR: COPY 1	921 COPIER	1.0	1.0					PWR: NORTH WORKSTATIONS	0.3	0.7	0.0	1	20	8
9	20	1	0.0	0.0	0.9	CO: COF	Y 1921			0.9	0.8			PWR: NORTH WORKSTATIONS	2.4	0.0	0.0	3	20	10
11	20	1	0.0	0.3	0.5	CO: SMALL C	OLLAB. 1922					0.8	0.8							12
13	20	1	0.0	1.1	0.0	PWR: BREA	K 1923 MW	1.1	0.8											14
15	20	1	0.0	1.1	0.0	PWR: BREA	K 1923 MW			1.1	0.8			PWR: NORTH WORKSTATIONS	0.8	0.0	0.0	1	20	16
17	20	1	0.0	0.8	0.0	PWR: BREAK 192	3 ICE MACHINE					0.8	0.8	PWR: NORTH WORKSTATIONS	2.4	0.0	0.0	3	20	18
19	20	1	0.0	0.0	0.2	CO: BRE	AK 1923	0.2	0.8											20
21	20	1	0.0	0.8	0.0	PWR: BREAK 19	923 DISPOSAL			0.8	0.8									22
23	20	1	0.0	0.0	0.2	CO: BRE	AK 1923					0.2	0.8	PWR: NORTH WORKSTATIONS	0.8	0.0	0.0	1	20	24
25	20	1	0.0	0.8	0.0	PWR: BREAK	1923 FRIDGE	0.8	1.0					PWR: NORTH WORKSTATIONS	0.0	2.9	0.0	3	20	26
27	20	1	0.0	0.1	0.4	CO: BRE	AK 1923			0.5	1.0								-	28
29	20	1	0.0	0.8	0.0	PWR: BREAK 1	923 VENDING					0.8	1.0							30
31	20	1	0.0	0.8	0.0	PWR: BREAK 1	923 VENDING	0.8	0.7					PWR: NORTH WORKSTATIONS	0.0	0.7	0.0	1	20	32
33	20	1	0.0	0.8	0.0	PWR: BREAK 1	923 VENDING			0.8	0.0			SPARE				1	20	34
35	20	1	0.0	0.3	0.5	CO: SMALL C	OLLAB. 1918					0.8	0.0	SPARE				1	20	36
37	20	1	0.0	0.3	0.5	CO: MEDIUM C	OLLAB. 1917A	8.0	0.0					SPARE				1	20	38
39	20	1	0.0	0.3	0.5	CO: SMALL C	OLLAB. 1917			0.8	0.0			SPARE				1	20	40
41	20	1	0.0	0.0	1.3	CO: OPEN O	FFICE 1949					1.3	1.0	CO: MEDIUM COLLAB. 1907	0.7	0.3	0.0	1	20	42
TOTA	LS:					CONNECTED	kVA PER PHASE	1	1	1	0	1	1	CONNEC	TED TO	OTAL k	VA =	32		
						CONNECTED A	MPS PER PHASE	9	3	8	7	9	1	AVERAGE CONNECTED AM	PS PE	R PHA	SE =	90		
NEC [DIVERS	SIFIED L	OAD	CALC	ULAT	TIONS														
LIGH	ITING 8	& CONT				14.9 kVA @ 83% =	- 100 ⁰ 12.5 kVA - FIRS													
	ALL C	THER I	_OAD	S @ 1	00% :	17.5 kVA								. OTHER LOADS WITH ② 125% PER NEC						

VOLT	S/PHAS	SE/WIR	E: F	PANEL	SIZE	EXISTING P					ATIO		CABINET:		N	IOTES			
			_			BOLT-ON 225 AMPERE					R. 19		SURFACE		-				
	SSORI					CTORY, IDENTIFICATION, GROUN				010	14. 15	10		· DAT	ING: 0				
						CTORT, IDENTIFICATION, GROOM	I DING						AI				0.0	<u> </u>	
CKT	00			AD (k)		DE00DIDE01	_		HASE			\dashv	25021251011		DAD (k	, ,	00		CKT
NO		POLE				DESCRIPTION LTG: NORTH & WEST ROOMS	1 1	A	-	3	(,	DESCRIPTION	CO	+	_	POLE	AMP	NO
1 3	20	1	1.4	0.0	0.0	LTG: NORTH & WEST ROOMS	1.4	2.0	1.3	0.4			LTG: 19R-1, 2, 3, 4, 5 & 6 LTG: 19R-7	0.0	0.0	0.4	1	20	4
<u> </u>	20	1		0.0		SPARE			1.3	0.4	0.0	2.6	LTG: 19R-7 LTG: 19R-8, 9, 10, 11, 12, 13 & 14		0.0	2.6	1	20	6
ე 7	-	1				SPARE	0.0	0.0			0.0	2.0	SPARE	0.0			1		
9	20	1				SPARE	0.0	0.0	0.0	0.0			SPARE				1	20	8 10
11	20	1				SPARE			0.0	0.0	0.0	0.0	SPARE	 			1	20	12
13	20	1				SPARE	0.0	0.0			0.0	0.0	SPARE				1	20	14
15	20	1				SPARE	0.0	0.0	0.0	0.0			SPARE				1	20	16
17	20	1				SPARE			0.0	0.0	0.0	0.0	SPARE	 			1	20	18
19	20	1				SPARE	0.0	0.0			0.0	0.0	SPARE	+			1	20	20
21	20	1				SPARE	0.0	0.0	0.0	0.0			SPARE				1	20	22
23	20	1				SPARE			0.0	0.0	0.0	1.9	PWR: FPB-190	0.0	1.9	0.0	1	20	24
25	20	1				SPARE	0.0	1.9			0.0	1.0	PWR: FPB-191	0.0	1.9	0.0	1	20	26
27	20	1				SPARE		1.0	0.0	1.9			PWR: FPB-192	0.0	1.9	0.0	1	20	28
29	20	1				SPARE			10.0		0.0	1.9	PWR: FPB-193	0.0	1.9	0.0	1	20	30
31	20	1				SPARE	0.0	1.9					PWR: FPB-194	0.0	1.9	0.0	1	20	32
33	20	1				SPARE			0.0	1.9			PWR: FPB-195	0.0	1.9	0.0	1	20	34
35	20	1				SPARE					0.0	1.9	PWR: FPB-196	0.0	1.9	0.0	1	20	36
37	20	1				SPARE	0.0	1.9					PWR: FPB-197	0.0	1.9	0.0	1	20	38
39	60	1	0.0	10.0	0.0	PWR: WH-2			10.0	1.9			PWR: FPB-198	0.0	1.9	0.0	1	20	40
41	20	1	0.0	10.0	0.0	PWR: WH-1					10.0	1.9	PWR: FPB-199	0.0	1.9	0.0	1	20	42
ГОТА	LS:				<u> </u>	CONNECTED kVA PER PHA	SE	9	1	7	2	0	CONNEC	TED T	OTAL k	VA =	46		
						CONNECTED AMPS PER PHA	SE	32	6	7	7	7	AVERAGE CONNECTED AM	IPS PE	R PHA	SE =	56		
VEC I	DIVERS	IFIED L	OAD	CALC	ULAT	IONS													
LIGH	ITING 8	CONT	INUO	US LO	ADS:	7.7 kVA @ 125% = 9.6 kVA - 1	100% C	ONNE	CTED	LOA	D PLI	JS 25%	% DIVERSIF	IED TO	OTAL k	XVA =	51		
				EPTAC			IDQT 1	0k \/Δ	<u>ത</u> 100	۱% D	ΕΝΛΔΙ	NDED	a @ 50% AVERAGE AM	DS DE	:р рна	SE =	61		
			NEU	LFIAC	LLO.				_				_	JFE	лгпА	.GL -	V I		
	ALL O	THER	OAD	S @ 10	00% :								OTHER LOADS WITH 2 125% PER NEC						



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ARCHITECT / CONSULTANT

SPECTRUM ENGINEERS 324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE — CENTER FLOOR 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111-AHJ SIAMP

SHEET NAME:

PANEL SCHEDULES

REVISIONS

DESCRIPTION

ISSUE DATE: 01/05/10 100% CD DRAWN BY: Author

CHECKED BY: Checker PROJECT#: 1750

SHEET NUMBER:

EXISTING PANEL: "TP19B"

FREIGHT ELEV. 1932

1.3 | 1.1

0.8 0.8

1.2 | 1.0

PHASE LOAD

A B C

| 1.0 | 1.1 | | | 1.4 | 1.1

1.3 | 1.0 |

0.8 | 0.7 |

0.7 0.8

| | | | 1.0 | 0.8 |

0.8 1.0 0.0 1.0

0.0 0.0 0.0 0.0

12

- 100% CONNECTED LOAD PLUS 25%

MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

1.0 1.8

1.7 | 1.0 |

1.7 0.8

2.0 | 1.0 |

0.0 0.7

1.0 | 1.8 |

SURFACE

CO: SOUTH WORKSTATIONS

SPARE

PWR: HP-1

AIC RATING: 0

LOAD (kVA) OCP CKT

CO PWR LTG POLE AMP NO

0.0 3.2 0.0 3 20 2

0.0 | 1.1 | 0.0 | 1 | 20 | 8

0.0 | 2.9 | 0.0 | 3 | 20 | 10

-- -- -- 12 -- -- -- 14

0.0 0.7 0.0 1 20 16

2.4 | 0.0 | 0.0 | 3 | 20 | 18

-- -- 20 -- -- -- 22

0.8 0.0 0.0 1 20 24

0.0 | 2.9 | 0.0 | 3 | 20 | 26

-- -- 28 -- -- -- -- 30

0.0 0.7 0.0 1 20 32

-- | -- | -- | 1 | 20 | 34

-- -- 1 20 36

0.0 | 5.4 | 0.0 | 3 | 20 | 38

-- -- -- 40 -- -- -- -- 42

CONNECTED TOTAL kVA = 39

DIVERSIFIED TOTAL kVA = 38

AVERAGE AMPS PER PHASE = 106

AVERAGE CONNECTED AMPS PER PHASE = 108

-- -- 4 -- -- -- 6

MAIN SIZE AND TYPE:

PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

DESCRIPTION

CO: MEDIUM COLLAB. 1924

CO: LARGE COLLAB. 1925

CO: OPEN OFFICE 1952

CO: LOBBY 1909

CO: OPEN OFFICE 1953

CO: OPEN OFFICE 1951

CO: MOTHER'S ROOM

CO: SMALL COLLAB. 1928

CO: SMALL COLLAB. 1929

CO: MEDIUM COLLAB. 1910

CO: COPY 1936

PWR: COPY 1936 COPER

CO: ROOM 1908, 1906

CO: LARGE COLLAB. 1911

SPARE

SPARE

SPARE

SPARE

PWR: IT 1930 RACK

CO: IT 1930 RACK

CONNECTED kVA PER PHASE 16

RECEPTACLES: **14.0 kVA @ 86% = 12.0 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50%

CONNECTED AMPS PER PHASE 133

225 AMPERE MAIN LUGS

VOLTS/PHASE/WIRE: PANEL SIZE & TYPE:

OCP LOAD (kVA)

NO AMP POLE LTG PWR CO

1 20 1 0.0 0.3 0.7

3 20 1 0.0 0.3 1.1

5 20 1 0.0 0.0 1.3

7 | 20 | 1 | 0.0 | 0.0 | 0.9 |

9 20 1 0.0 0.0 1.3

11 20 1 0.0 0.1 1.1

13 | 20 | 1 | 0.0 | 0.8 | 0.9 |

15 20 1 0.0 0.3 0.5

17 20 1 0.0 0.3 0.5

19 20 1 0.0 1.3 0.4

21 | 20 | 1 | 0.0 | 0.0 | 0.7 |

23 | 20 | 1 | 0.0 | 1.0 | 0.0 |

25 20 1 0.0 1.3 0.7

27 | 20 | 1 | 0.0 | 0.3 | 0.5 |

29 20 1 -- -- --

31 20 1 -- -- --

33 20 1 -- -- --35 20 1 -- -- --

37 30 2 0.0 2.1 0.0 39 -- -- -- -- --

41 20 1 0.0 0.0 0.2

LIGHTING & CONTINUOUS LOADS:

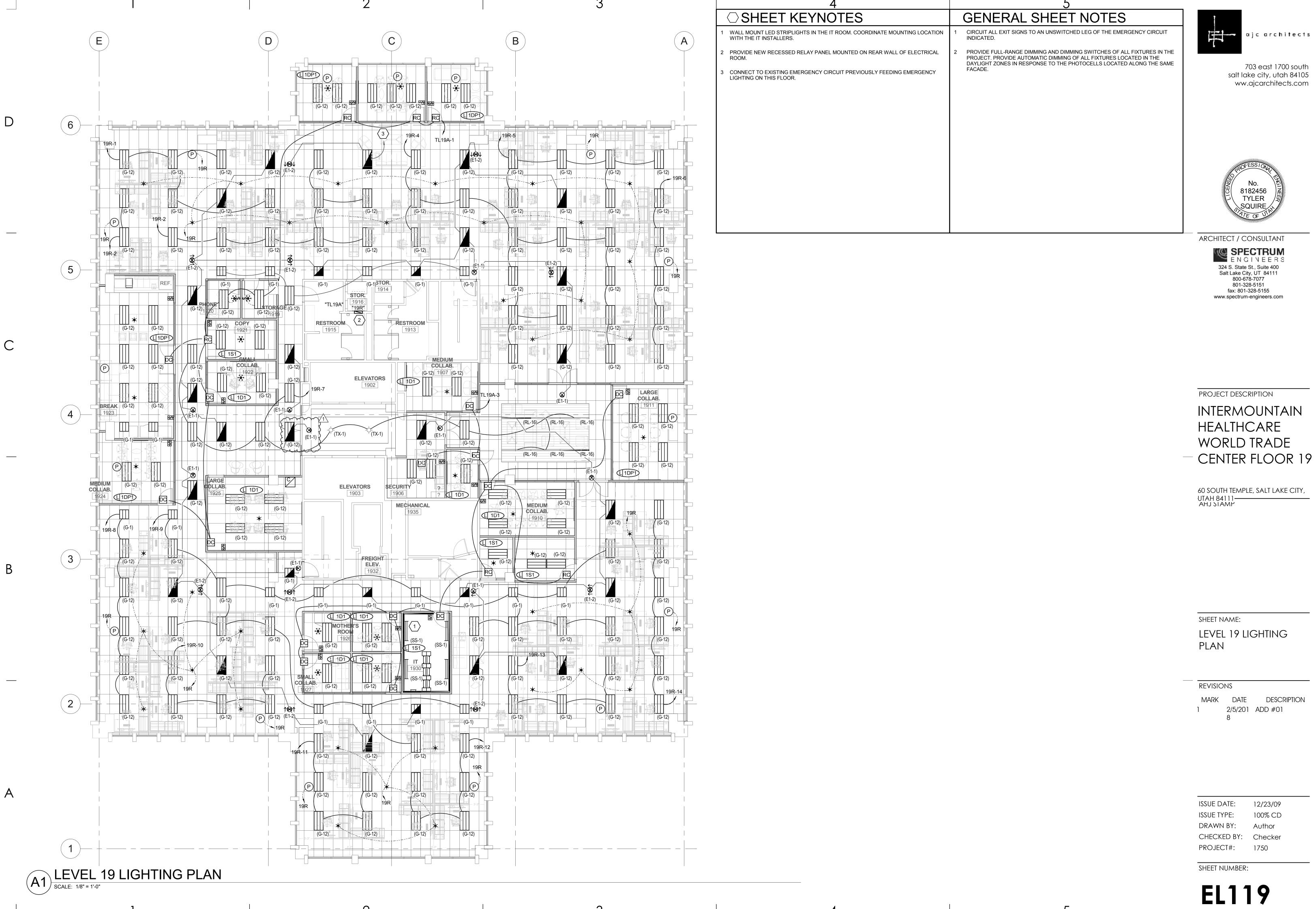
NEC DIVERSIFIED LOAD CALCULATIONS

ALL OTHER LOADS @ 100% : 26.3 kVA

TOTALS:

120/208V, 3 PH 4 WIRE | 22" W x 6" D, BOLT-ON

EP602



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8182456

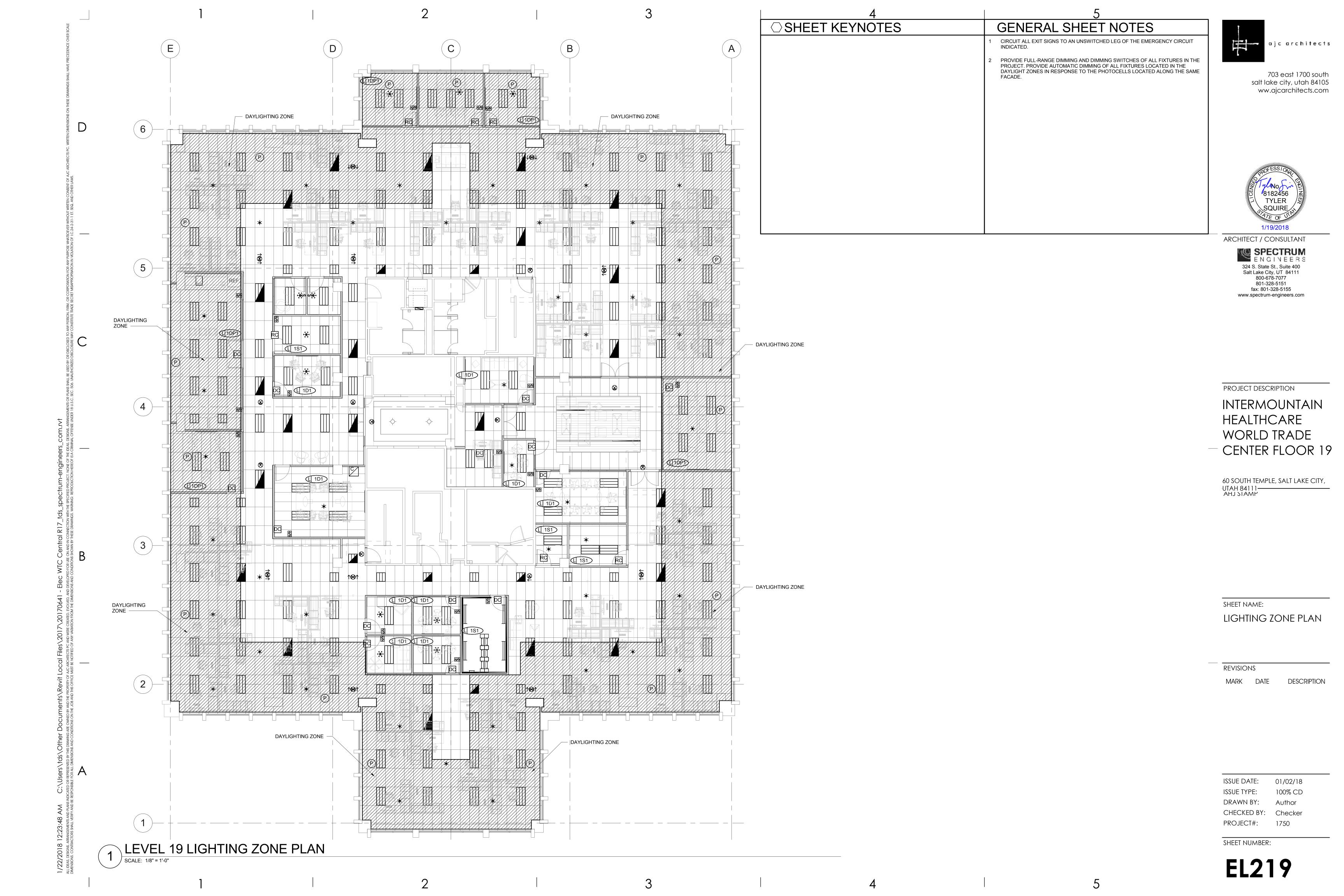
DESCRIPTION

12/23/09

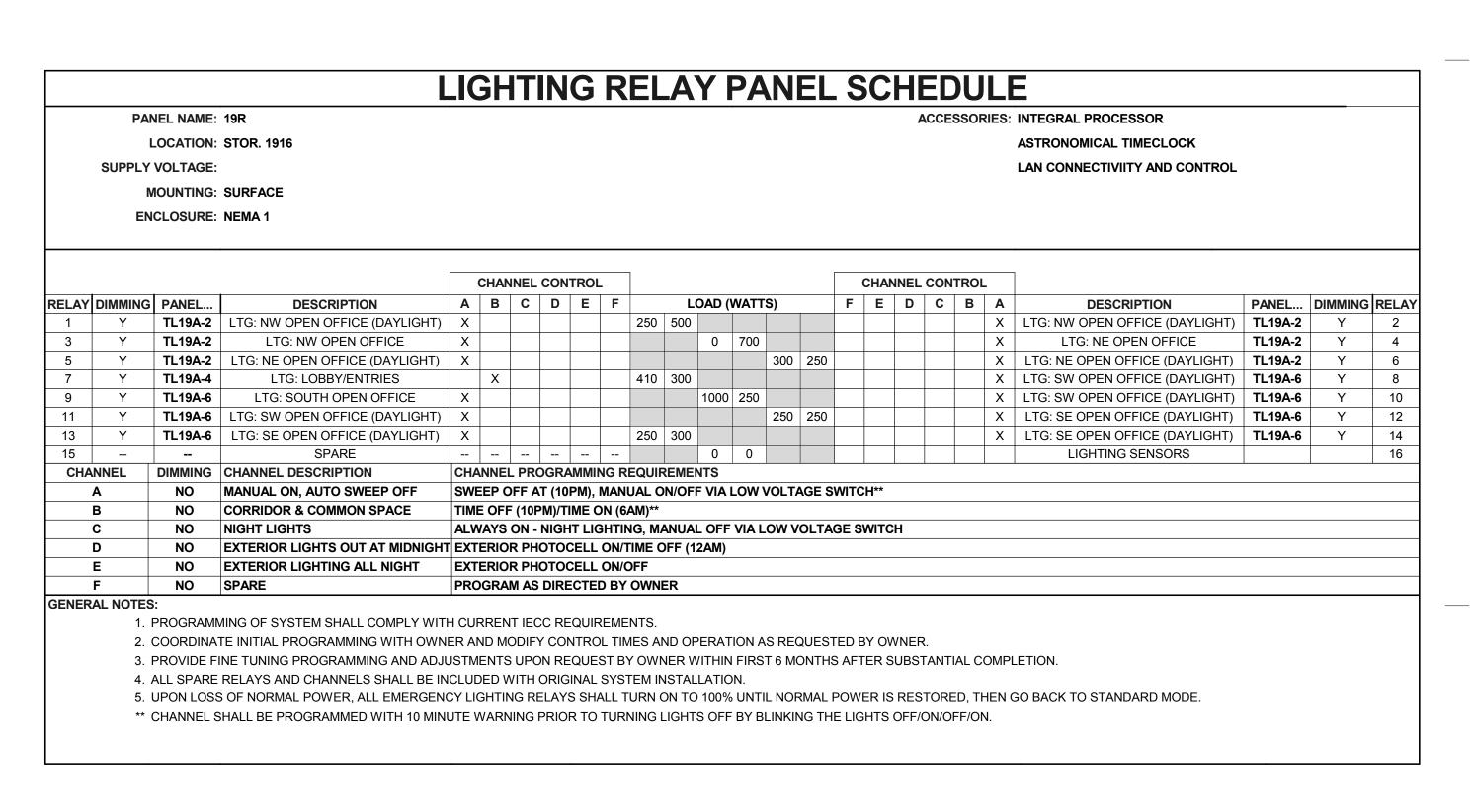
Author

100% CD

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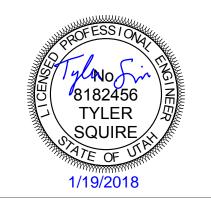


							LKI			ITING F	IXIU	<u> </u>	<u> 3СП</u>		JLC	•					
				Α	BBR	EVI	ATI	ONS	3										GENER	RAL NOTE	S
POUNTII BASE CEILI FLAN FOR PEND FOR P	ARHR - DL - EQC - F - HLD - HS - SSED PS - ACE QRS - ST - WG - WL - HEIGHT	AIR RETUR DAMP LOCA EARTHQUA FUSING HINGED AN HOUSE SID PHOTOCEL QUARTZ RE STATIC WIRE GUAF WET LOCA	RN AND HEAT ATION AKE CLIPS ND LATCHED DE SHIELD LL SWITCH ESTRIKE	REJECTIO			FINISH MW - BL - SL - GL - CL - EA - S - S - CCA - CCBA - SCCBA - SCCBA - TCCA -		HITE ALUMINUM O STEEL RCHITECT COLOR BY OLOR BY ERAL 209D	DIFFUSER/LI #A - ACRYLIC # #OA - ACRYLIC # GC - GLASS (OF GF - GLASS (FF SGL - SOFT GLO HPL - HIGH PERF DO - DROP OPA CGL - CONVEX G S - SATIN LEN	ETHICK ETHICK (OPAL) LEAR) PAL) ROSTED) W LENS FORMANCE LEI AL GLASS LENS	NS	PEF OP SP SS D SC PR FDR DS LI IR SL CA	- DIFFUS - SPECU - PRISM. - FULL D - DIFFUS	OPEN JLAR SPECULAR SE (WHITE JLAR (COL ATIC DEPTH REF SE (SEMI S RIDESCEN SCENT R	EENAMEL) ORED) FLECTOR SPECULAF	R) SILVER	FOR EACH FAILURE AND EMILINSTALL INSTALL 2. CONTRA SPECIFII ALLOWA AND DO 3. SUBSTIT BIDDING PRIOR T 4. SAMPLE PRIOR T 5. ALL FIXT LOCATIO 6. VERIFY INSTALL 7. COMPLY 8. REFER TILIGHTING	E UNIT PRICES AND FIXTURE CH FIXTURE TYPES SHOWN W TO COMPLY WITH THIS REQ POWER THE ENGINEER TO D ATION CHANGES, WITHOUT F ER. CTOR ALLOWANCE PRICES A ED, CONTRACTOR AND ELEC INCE AND REPORT ANY PROB INCE PRICE MAY OR MAY NO NOT INCLUDE ANY TAXES. TUTIONS AND/OR EQUAL FIXT THEY MUST BE SUBMITTED O BID OPENING. S MUST BE PROVIDED FOR A O RELEASING FIXTURES.	BRAND SELECTED FOR VITHIN 48 BUSINESS HOW PUIREMENT MAY DISQUARTERMINE FAIR VALUE FURTHER INPUT FROM TARE ACCURATE WHEN TRICAL DISTRIBUTOR SELEMS TO THE ENGINE TO THE ENGINE FOR THE ENGINE FOR THE ENGINEER NOW ANY AND ALL FIXTURES APPROVED FOR THEIR SECONTROLOGATION ON THE DRAW ING" SECTION OF THE SECONTROLOGAL RELAMPS.	ADD/DELETE CHANGE PURS OF THE BID DATE. ALIFY THE PRODUCTS FOR FIXTURE AND THE CONTRACTOR OR THIS JOB WAS CHALL VERIFY THIS ER BEFORE THE BID. FREIGHT AS NOTED, APPROVAL PRIOR TO LESS THAN 2 WEEKS UPON A/E REQUEST INTENDED USE AND FACILITATE WINGS. PECIFICATIONS.
LE	NGTH OF DEPTI	<u>'</u>	NOMINI	AL SIZE						_	Т		<u> </u>					APPROV	ED BY ARCHITECT/ENGINEER	R AND USU. FACTURER (CATALOG S	EDIES)
ID	DESCRIPTION	LENGTH	DЕРТН	HEIGHT	DIAMETER/ APERTURE	MOUNTING	ТҮРЕ	COLOR TEMP	CRI	DRIVER CONFIGURATION	VOLTAGE	WATTS	FINISH	FIXTURE LUMENS	DIFFUSER/LENS	REFLECTOR	OPTIONS	NOTES	OPTION 1	OPTION 2	OPTION 3
(E1-1) (E1-2)	LED EDGE-LIT EXIT SIGN, SINGLE FACE LED EDGE-LIT EXIT SIGN, DOUBLE FACE					C				LED DRIVER	UNV	0	AL	0					CHLORIDE (CA-6-GC-A-1) CHLORIDE (CA-6-GM-A-2)		
G-1)	RECESSED VOLUMETRIC TROFFER, DOUBLE BASKET.	2'	2'	5"		C,R	LED	3500K	80	LED DRIVER (0-10V DIMMING)	UNV	36		3300					LITHONIA (2RTL2-33L-EZ1-LP835)		
-12)	RECESSED VOLUMETRIC TROFFER, DOUBLE BASKET.	4'	2'	5"		C,R	LED	3500K	80	LED DRIVER (0-10V DIMMING)	UNV	47		4800					LITHONIA (2RTL4-48L-EZ1-LP835)		
16)	NARROW RECESSED LINEAR LED FIXTURE. SURFACE MOUNT FIXTURE BETWEEN WOOD SLATS.	6'	1 1/2"	3"		C,R	LED	3500K	90+	LED DRIVER (0-10V DIMMING)	UNV	33	MW	3000					AXIS (SCS-500-90-35-FL-6-W-U NV-DP)		
SS-1)	GENERAL PURPOSE LED STRIP	48"	9"	5"	-	CS,P	LED	4000K		LED DRIVER	120/240	53		5000			-		COLUMBIA (LR0-4-40-ML-E-U)		
TX-1)	DECORATIVE ELEVATOR LOBBY PENDANT. EXACT	CORATIVE ELEVATOR LOBBY PENDANT. EXACT FIXTURE TBD.										0		0					CONTRACTOR ALLOWANCE - \$1,500 EA.		





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PROJECT DESCRIPTION

INTERMOUNTAIN
HEALTHCARE
WORLD TRADE
CENTER FLOOR 19

SHEET NAME:

INTERIOR LIGHTING FIXTURE SCHEDULE

REVISIONS

RK DATE DESCRIPTION

ISSUE DATE: 01/05/10

100% CD

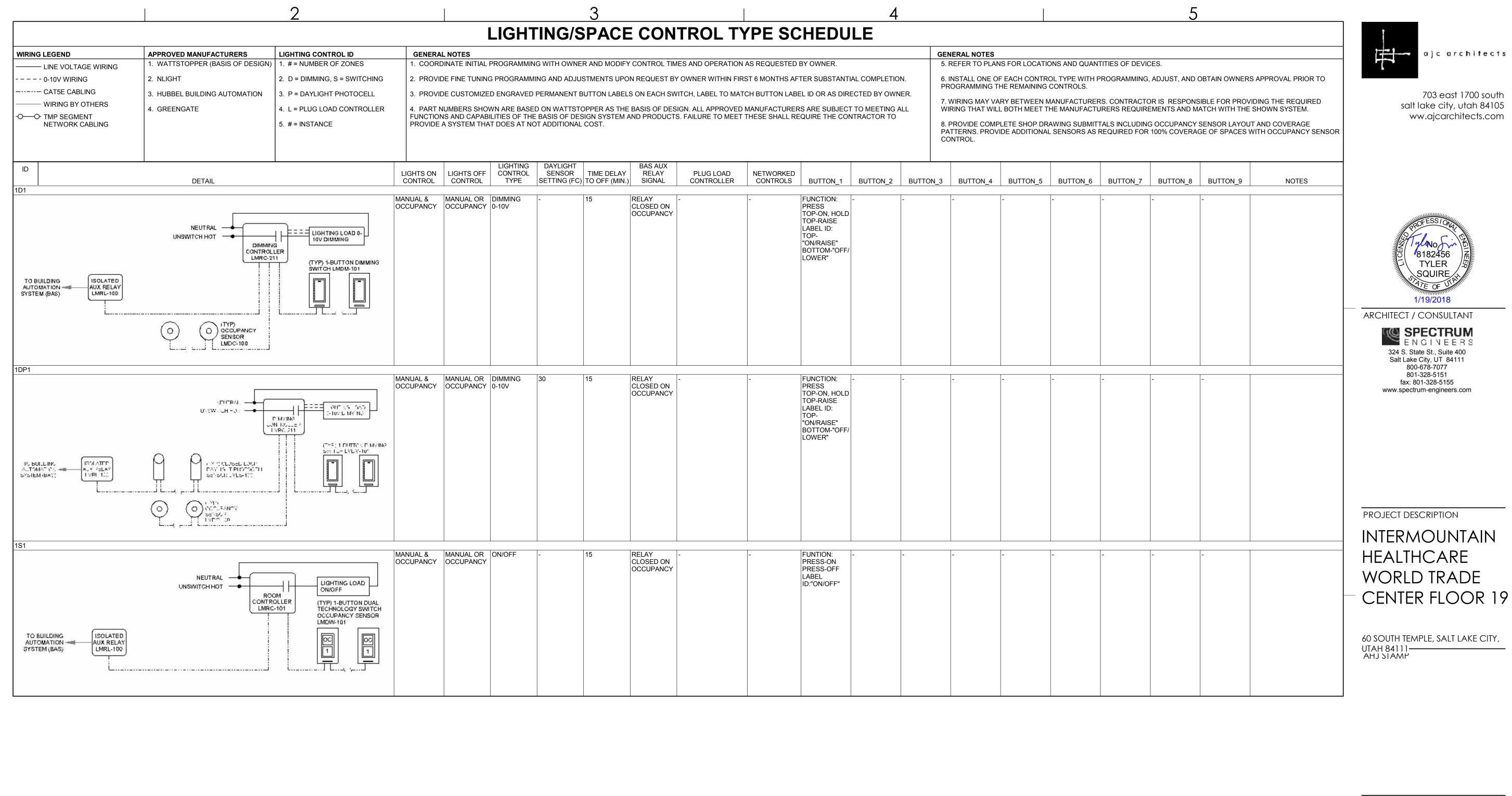
DRAWN BY: Author
CHECKED BY: Checker
PROJECT#: 1750

SHEET NUMBER:

ISSUE TYPE:

EL601

3



703 east 1700 south salt lake city, utah 84105

SHEET NAME:

LIGHTING CONTROL **SCHEDULES**

DESCRIPTION

REVISIONS

ISSUE DATE: 12/22/16 ISSUE TYPE: 100% CD DRAWN BY: Author CHECKED BY: Checker PROJECT#: 1750

SHEET NUMBER:

EL602

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

AUGMENTED

CATEGORY

ENHANCED

GIGA HERTZ

PLENUM

TYPICAL

PAIR

EQUIPMENT ROOM

NOT IN CONTRACT

POWER SUPPLY RISER PATCH PANEL

OWNER ELECTRONICS

STATION PATCH PANEL

VERTICAL WIRE MANAGEMENT

FIBER PATCH PANEL

HORIZONTAL WIRE MANAGEMENT

TELECOMMUNICATIONS DISTRIBUTION ROOM

FACH

CAT

EΑ

ER

FPP

HWM

OE

PNM

PR

PS

SPP

TDR

TYP

VWM

2. PROVIDE PLENUM RATED CABLE IN ALL AIR PLENUMS. IF A PLENUM RATED CABLE IS NOT SPECIFIED, PROVIDE THE PLENUM RATED EQUIVALENT TO THE SPECIFIED CABLE.

3. LABEL ALL CABLE INSTALLED UNDER THIS CONTRACT REGARDLESS OF LENGTH.

4. THE EQUIPMENT LABELING IDENTIFIED ON DETAILS IN THESE DRAWINGS ARE EXAMPLES ONLY OF THE ACTUAL LABELING WHICH IS REQUIRED AS PART OF THIS CONTRACT. PRIOR TO FABRICATION. SUBMIT THE NOMENCLATURE FOR ALL LABELS TO THE OWNER FOR REVIEW. THIS REQUIREMENT INCLUDES BUT IS NOT LIMITED TO ALL CABLE LABELING, AND ALL EQUIPMENT LABELING.

5. IF OUTLET IS TERMINATED IN CEILING SPACE, LABEL THE T-BAR GRID WITH THE OUTLET NUMBER FOR EASY LOCATION AND IDENTIFICATION.

6. GROUND ALL EQUIPMENT RACKS INSTALLED UNDER THIS CONTRACT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.

PROVIDE THE QUANTITY OF PATCH PANELS REQUIRED +20% FOR THE TOTAL DATA OUTLETS SHOWN ON FLOOR PLANS FOR THE PARTICULAR LEVEL.

8. RACK SPACE ALLOCATION SHOULD BE FOLLOWED PER DRAWINGS. IF YOU HAVE A SYSTEM THAT HAS NO RACK SPACE ALLOCATED PLEASE CALL BOE SAUSEDO AT 801-707-3805

9. ENSURE ALL BASKET TRAY AND COMMUNICATIONS CONDUITS HAVE BEEN GROUNDED TO THE TEC/TDR, USING A MINIMUM #6 CU.

10. CONTRACTOR TO LOOSELY BUNDLE ALL CABLES TOGETHER BY FLOOR OR

11. FOR EVERY CABLE PULL SPECIFIED, COIL 15' OF EXCESS CABLE AT THE STATION END FOR FUTURE USE AND 3'-0" OF EXCESS CABLE AT THE TDR END. NEATLY COIL AND SECURE CABLE ABOVE THE CEILING OR BELOW FLOOR WHERE APPLICABLE.

12. COORDINATE WITH ALL SUBS TO ENSURE THAT ALL CABLES ARE PROTECTED FROM ANY DIRECT PAINT OR INCIDENTAL OVERSPRAY.

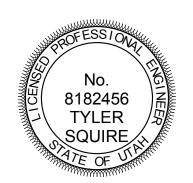


salt lake city, utah 84105

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703 east 1700 south



ARCHITECT / CONSULTANT



PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111-AHJ STAMP

SHEET NAME:

TELECOM SCHEDULES AND NOTES

REVISIONS

DESCRIPTION 2/5/201 ADD #01

ISSUE DATE: 1/19/2018 ISSUE TYPE: 100% CD

SHEET NUMBER:

PROJECT#:

EQUIPMENT/CABLE 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 CABLING 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. **ACCEPTABLE TYPES** STATION CABLE, DATA - CATEGORY 6A FUTP PLENUM, BLUE, DATA SIEMON 9A6P4-A5-06-R1A STATION CABLE, DATA - CATEGORY 6A FUTP PLENUM, YELLOW, WIRELESS DATA SIEMON 9A6P4-A5-05-R1A STATION CABLE, DATA - CATEGORY 6A FUTP PLENUM, GREEN VENDOR NETWORK SIEMON 9A6P4-A5-07-R1A 25 PAIR CATEGORY 3 RISER CABLE, GRAY GENERAL CABLE 2133033 OR EQUAL FIBER OPTIC CABLE, SINGLE-MODE, 12 STRAND, ARMORED, PLENUM CABLE, YELLOW SIEMON 9BC8P012LE205A LC CONNECTOR, SIMPLEX SINGLE-MODE SIEMON FC1-LC-SM-B02 VOICE OUTLET, SINGLE GANG FACEPLATE, WHITE W/WALL HUNG PHONE SIEMON MX-WP-Z6AS-SS MOUNTING STUDS, ONE POSITION W/CATEGORY 6A INSERT SIEMON 10GMX-FPS02-02 DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 2 POSITION CATEGORY 6A JACK - DATA, BLUE SIEMON Z6A-S06 DATA OUTLET, FURNITURE FACEPLATE, BLACK SIEMON MX-UMA-01 CATERGPRU 6A JACK - DATA, BLUE SIEMON Z6A-S06 BLANK MODULE, BLACK SIEMON MX-BL-01 DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION SIEMON MX-SMZ2-02 CATEGORY 6A JACK - DATA, YELLOW SIEMON Z6A-S05 DATA OUTLET, SURFACE MOUNT BOX, WHITE, 1 POSITION SIEMON MX-SMZ1-02 CATEGORY 6A JACK - DATA, BLUE SIEMON Z6A-S06 48 PORT, 1RU ANGLE PATCH PANEL WITH OUTLETS SIEMON Z6AS-PA-48 48 PORT, 2RU ANGLE PATCH PANEL, 110 STYLE SIEMON HD5-48A SIEMON RIC3-48-01 FIBER PATCH PANEL, 3RU SIX POSITION FIBER ADAPTOR PANEL, LC SIEMON RIC-F-LCU12-01C BLANK ADAPTER PLATE, BLACK SIEMON RIC-F-BLNK-01 HORIZONTAL WIRE MANAGERS, 4RU PANDUIT NCMHAEF4 VWM VERTICAL WIRE MANAGERS, DOUBLE SIDED, BLACK **CHATSWORTH 40096-703** EQUIPMENT RACK, 7' x 19", 45RU, BLACK **CHATSWORTH 55053-703** CABLE RUNWAY - 24", BLACK WITH ALL REQUIRED MOUNTING ACCESSORIES CHATSWORTH 10250-724 CABLE RUNWAY - 18", BLACK WITH ALL REQUIRED MOUNTING ACCESSORIES CHATSWORTH 10250-718 BUTT SPLICE KIT. BLACK CHATSWORTH 11301-701 JUNCTION SPLICE KIT, BLACK CHATSWORTH 11302-701 FOOT KIT, BLACK CHATSWORTH 11309-701 6" CHANNEL RACK TO RUNWAY, BLACK **CHATSWORTH 12409-724** TRIANGLE BRACKETS, BLACK CHATSWORTH 11746-724 END CLOSING KIT, CABLE RUNWAY, BLACK **CHATSWORTH 11700-724** WALL ANGLE SUPPORT KIT, CABLE RUNWAY, BLACK CHATSWORTH 11421-724 CABLE RUNWAY ELEVATION KIT, 6" **CHATSWORTH 10506-706** CABLE RUNWAY RADIUS DROP CHATSWORTH 12100-712 STATION PATCH CABLE, CAT 6A SHIELDED, BLUE, 5 SIEMON ZM6A-S0506 STATION PATCH CABLE, CAT 6A SHIELDED, BLUE, 7 SIEMON ZM6A-S0706 STATION PATCH CABLE, CAT 6A SHIELDED, BLUE, 10' SIEMON ZM6A-S1006 STATION PATCH CABLE, CAT 5E, BLUE, 5' SIEMON MC5-8T-05-B06C STATION PATCH CABLE, CAT 5E, BLUE, 7 SIEMON MC5-8T-07-B06C STATION PATCH CABLE, CAT 5E, BLUE, 10' SIEMON MC5-8T-10-B06C PATCH CABLE, FIBER, SINGLEMODE DUPLEX W/ LC CONNECTORS, YELLOW, 3 METER J2-LCLCP-03 PATCH CABLE, FIBER, SINGLEMODE DUPLEX W/ LC CONNECTORS, YELLOW, 5 METER J2-LCLCP-05 PLYWOOD BACKBOARD, 4' X 8', GRADE AC, FIRE TREATED & PAINTED TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TELECOMMUNICATIONS GROUNDING BUS BAR NOTE: ALL RACKS, LADDER, PATCH PANELS AND ACCESSORIES SHALL BE BLACK IN COLOR.

C	ABLE/OUTLET COLOR SCHEDULE
COLOR	TYPE
BLACK	TV COAX
BLUE	ANALOG PHONE
BLUE	DATA
BLUE	IP SECURITY CAMERAS
GREY	SECURITY CARD READERS
ORANGE	CLINICAL ENGINEERING / NURSE CALL
RED	FIRE SYSTEMS
RED	FORESEER
WHITE	PUBLIC ADDRESS
YELLOW	WIRELESS
GREEN	VENDOR NETWORK

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" MEAN "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.

ELECTRONIC SYSTEMS: THE TERM "ELECTRONIC 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...

Designed Furnished Installed Ву Notes Telecomm Raceways, Conduit/Cable Tray/J-Hooks Design Team Contractor Backbone Fiber Design Team Contractor Fiber Termination Shelves (FPP1, FPP2) Design Team Contractor Copper Backbone Cabling Design Team Contractor Riser Patch Panels (RPP1) Design Team Contractor Fuse Protection for Backbone Cabling Design Team Contractor Cat 6A Horizontal Cable Design Team Contractor Design Team Patch Panels/Inserts SPP, WPP Contractor Horizontal Wire Manager (1RU, 2RU) Design Team Contractor Vertical Wire Manager Design Team Contractor RJ45 Inserts, Faceplates, Surface Mount Boxes Contractor Faceplate color to be coordinated with architect and owner

DRAWN BY: CHECKED BY: JDA

System Responsibility Matrix

Contractor Boxes, Raceways, Cabletray, ect. Contractor | Qualified Contractors: IES, CVE, Data Tech Professionals Contractor | Qualified Contractors: IES, CVE, Data Tech Professionals Contractor | Qualified Contractors: IES, CVE, Data Tech Professionals

Contractor | Qualified Contractors: IES, CVE, Data Tech Professionals Contractor | Qualified Contractors: IES, CVE, Data Tech Professionals Contractor | Qualified Contractors: IES, CVE, Data Tech Professionals Contractor | Qualified Contractors: IES, CVE, Data Tech Professionals

Fiber optic, Cat 6 and Cat 6A Patch Cords Owner Owner Patch cord quantities and lengths to be identified by owner Building MDF/IDF Racks Design Team Contractor

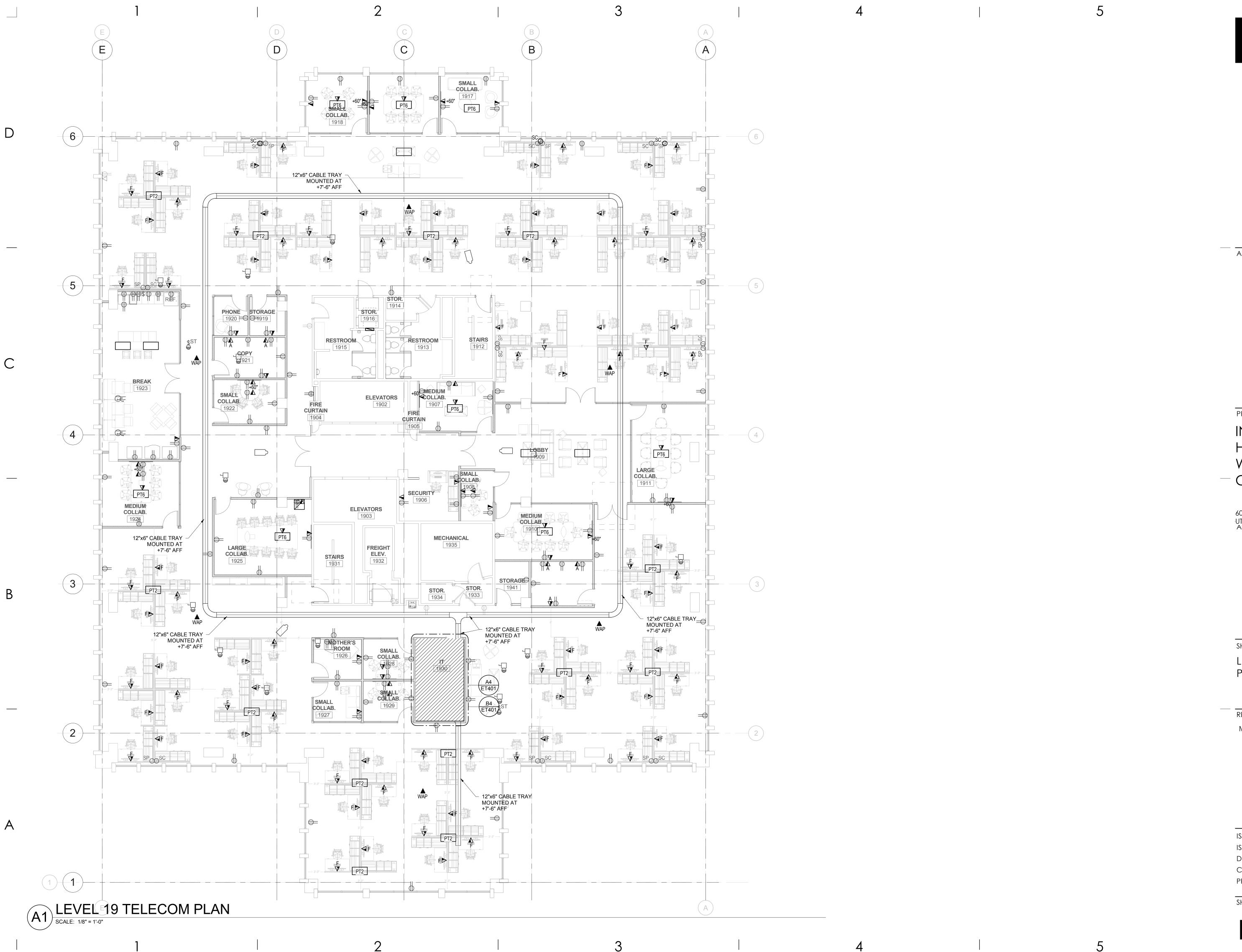
Building MDF/IDF Ladder Rack Design Team Contractor Active Network Electronics Owner Owner

Owner

Contractor | Qualified Contractors: IES, CVE, Data Tech Professionals Contractor | Qualified Contractors: IES, CVE, Data Tech Professionals

Contractor | Qualified Contractors: IES, CVE, Data Tech Professionals Contractor | Qualified Contractors: IES, CVE, Data Tech Professionals Contractor Wireless AP's, L2/L3 network switches, etc.

Design Team Contractor





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PROJECT DESCRIPTION

INTERMOUNTAIN
HEALTHCARE
WORLD TRADE
CENTER FLOOR 19

SHEET NAME:

LEVEL 19 TELECOM PLAN

REVISIONS

K DATE DESCRIPTION

ISSUE DATE: 1/19/2018
ISSUE TYPE: 100% CD
DRAWN BY: SJT
CHECKED BY: JDA

PROJECT#: 1750

SHEET NUMBER:

ET119

ENLARGED IT 1930 ISOMETRIC PLAN SCALE: 12"x6" CABLE TRAY MOUNTED AT +11'-0" AFF, TYPICAL 18"x1" LADDER RACK -MOUNTED AT +7'-6" AFF **IT** 1930 - 24"x1" LADDER RACK MOUNTED AT +7'-6" AFF B4 ENLARGED IT 1930 LADDER RACK PLAN SCALE: 1/4" = 1'-0"



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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE — CENTER FLOOR 19

60 SOUTH TEMPLE, SALT LAKE CITY,
UTAH 84111
AHJ SIAMP

SHEET NAME:

ENLARGED TELECOM PLANS

REVISIONS

DESCRIPTION

ISSUE DATE: 1/19/2018

100% CD DRAWN BY: CHECKED BY: JDA

PROJECT#: 1750

SHEET NUMBER:

ET401

ENLARGED IT 1930 EQUIPMENT RACK PLAN

SCALE: 1/4" = 1'-0"

IT 1930

DATA DEVICE	DROP SC	JHEDULE	= - 1	930
DATA DEVICE TYPE	DETAIL LOCATION	COMM ROOM LOCATION	TOTAL BY FLOOR	# OF DROPS
LEVEL 1		1	1	1
CEILING WIRELESS ACCESS POINT (2-DROP)	SEE DETAIL C5/ET502	IT 1930	6	12
FLOOR DATA (2-DROP)	SEE DETAIL A5/ET502	IT 1930	7	14
FURNITURE DATA (2-DROP)	SEE DETAIL A4/ET502	IT 1930	88	176
WALL DATA (2-DROP)		IT 1930	31	62
WALL DATA ABOVE COUNTER (2-DROP)	SEE DETAIL A5/ET502	IT 1930	5	10
Grand total		-	137	274



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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE **WORLD TRADE** — CENTER FLOOR 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111— AHJ SIAMP

SHEET NAME:

TELECOM ELEVATIONS

REVISIONS

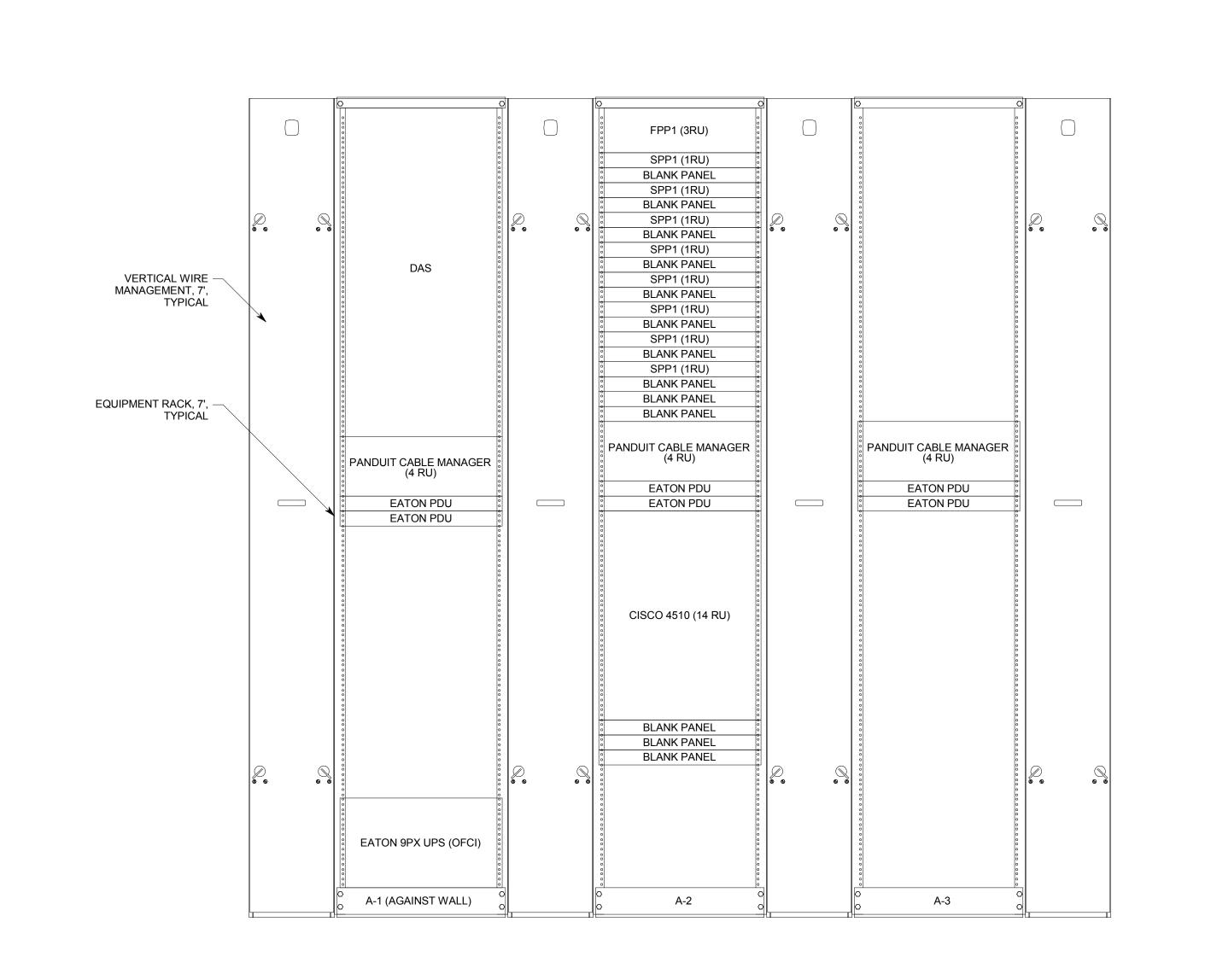
DESCRIPTION

1/19/2018 ISSUE DATE: 100% CD

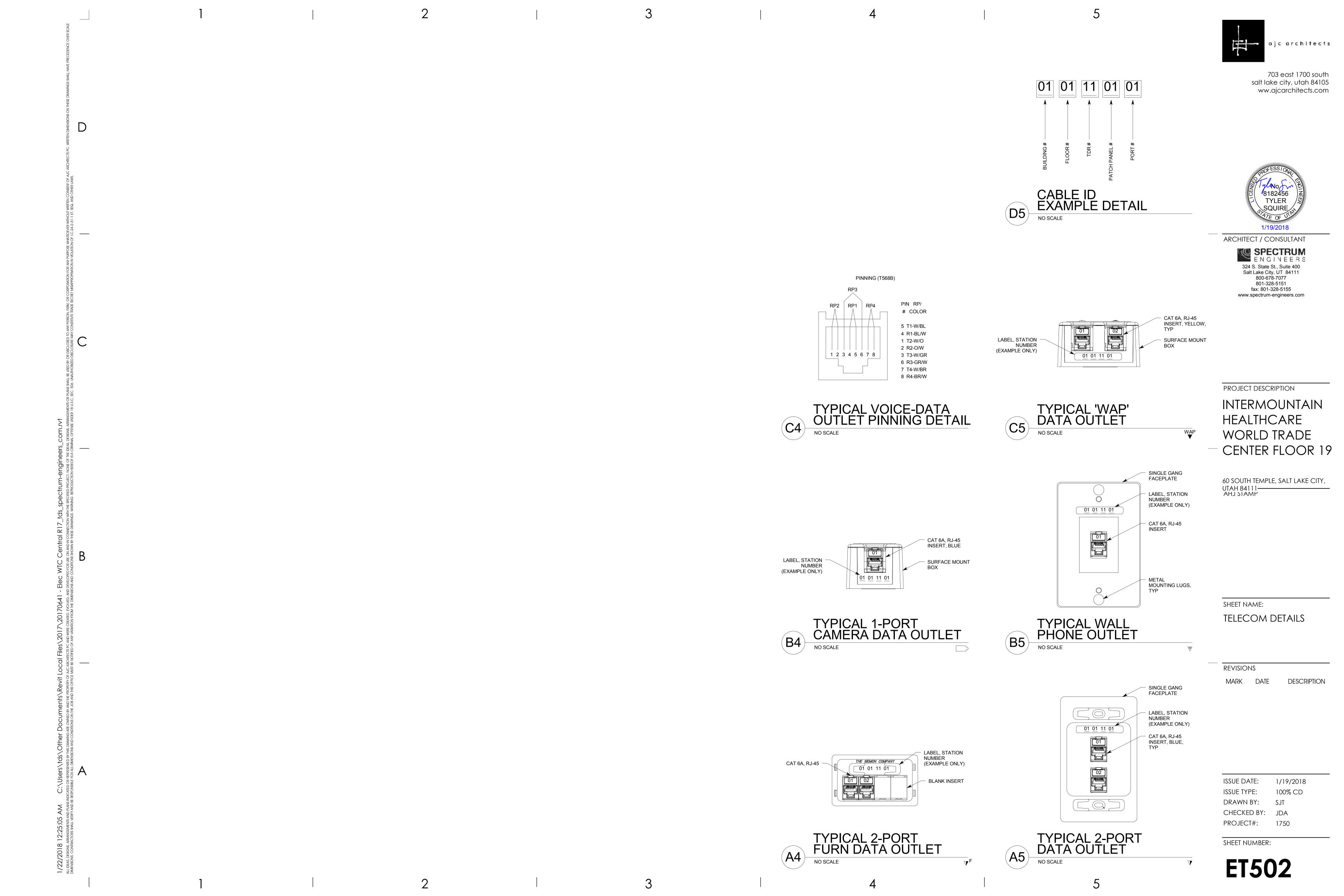
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SHEET NUMBER:

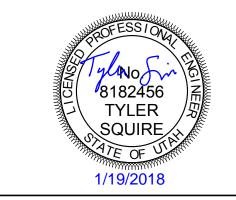
ET501



TELECOM RACK ELEVEVATION DETAIL, LEVEL 19, IT 1930







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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER FLOOR 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111— AHJ SIAMP

SHEET NAME:

TELECOM DETAILS

REVISIONS

DESCRIPTION

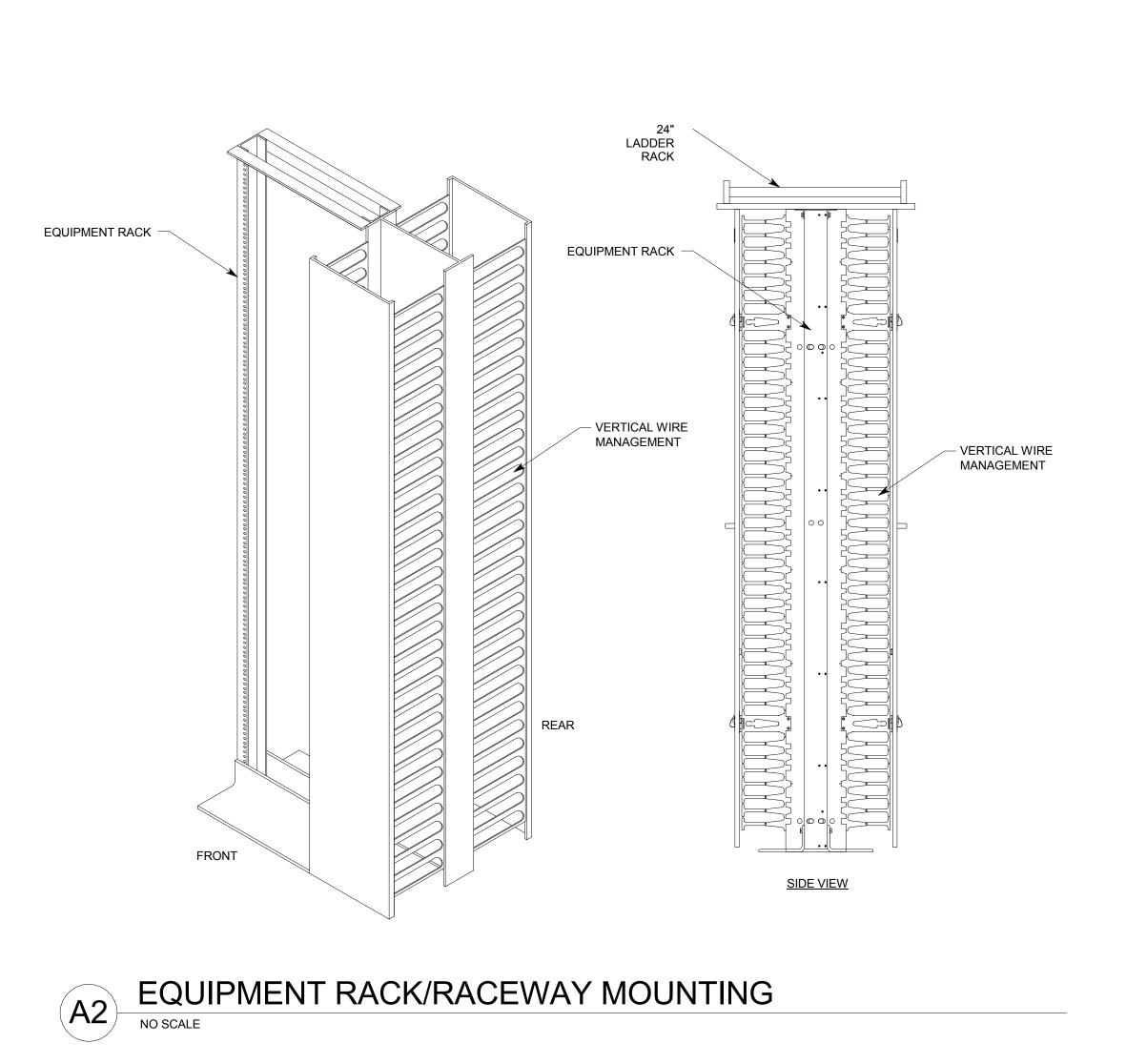
ISSUE DATE: 1/19/2018

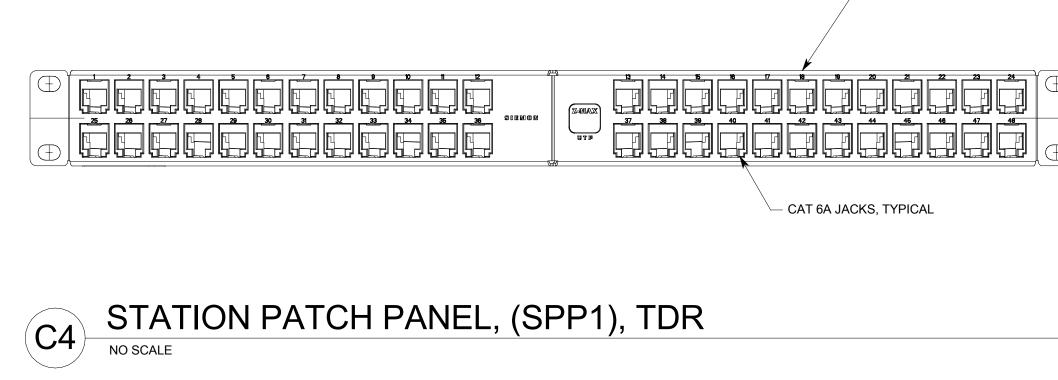
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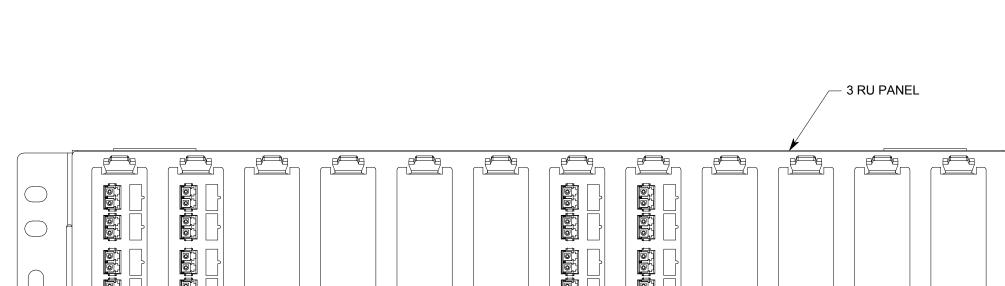
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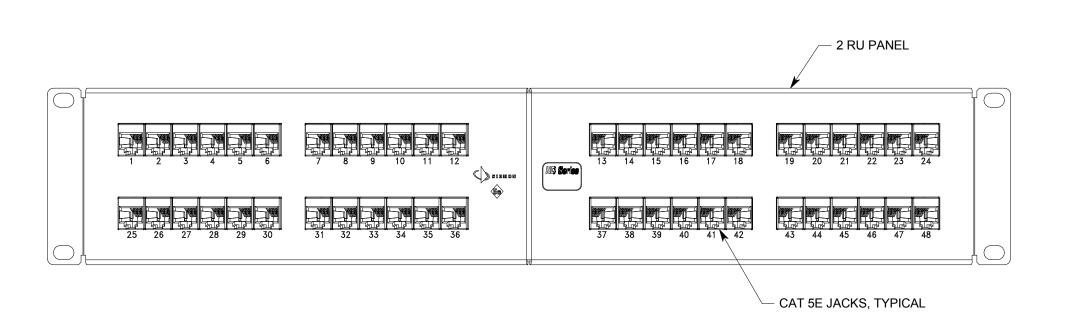
ET503



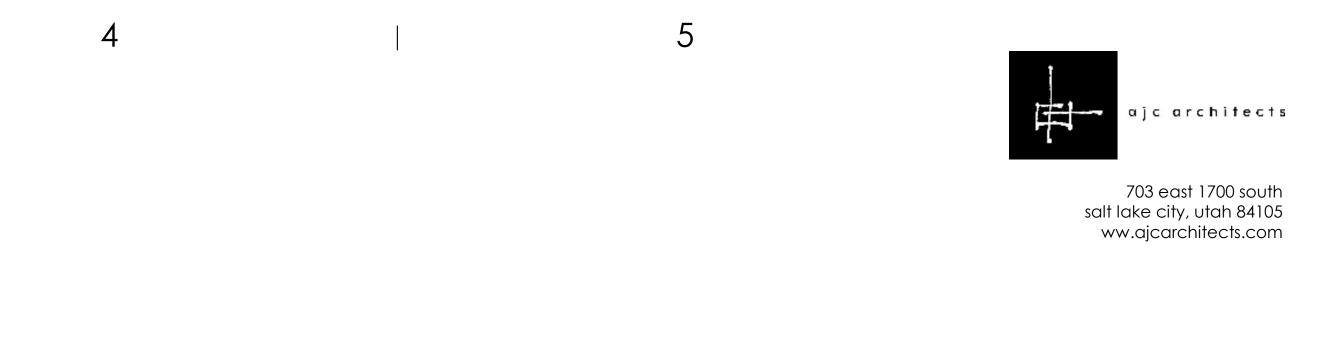


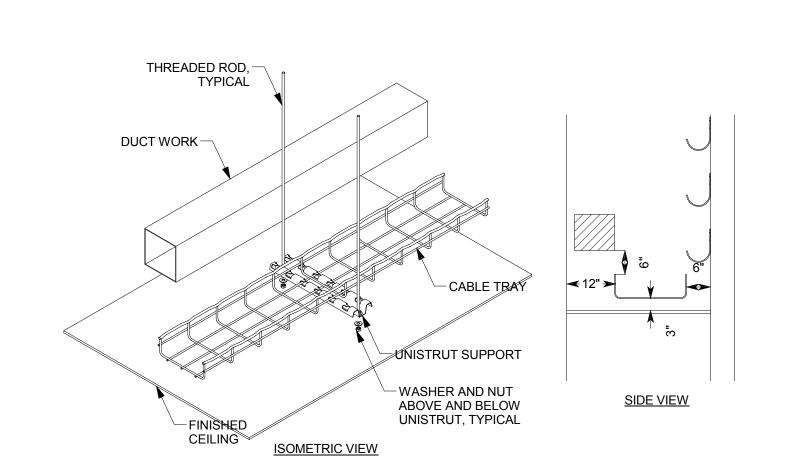


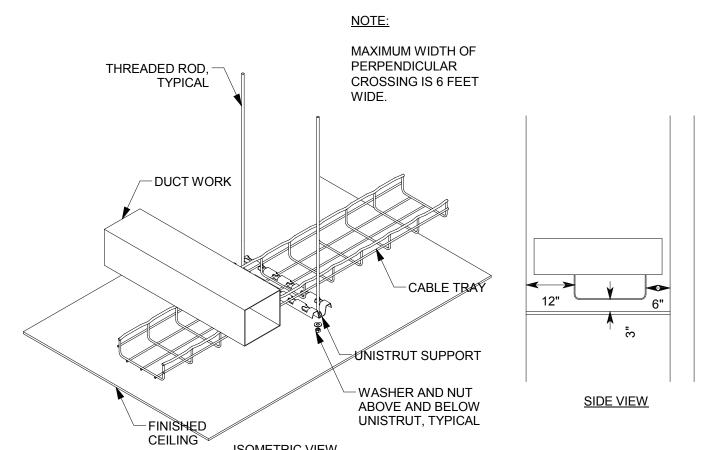
FIBER PATCH PANEL, (FPP1), TDR



RISER PATCH PANEL, (RPP1), TDR, TEC/TSER (A4)









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TYPICAL CABLE TRAY WITH PARALLEL OBSTRUCTION

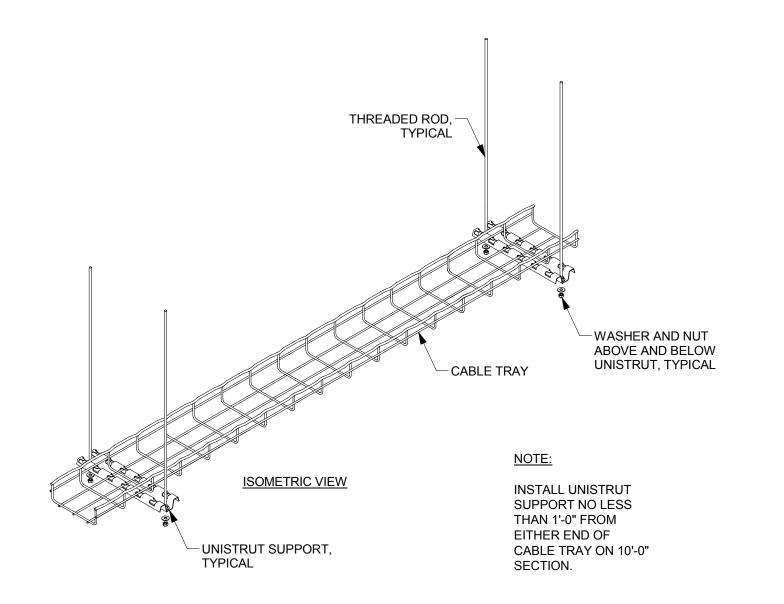
TYPICAL CABLE TRAY WITH PERPENDICULAR CROSSING

ISOMETRIC VIEW

PROJECT DESCRIPTION INTERMOUNTAIN HEALTHCARE WORLD TRADE — CENTER FLOOR 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111— AHJ SIAMP

USE MANUFACTURERS JOINT — SPLICE SPECIFICATIONS TO ENSURE PROPER BONDING THREADED ROD, -TYPICAL -UNISTRUT SUPPORT, TYPICAL CABLE TRAY
SPLICE POINT - WASHER AND NUT ABOVE AND BELOW INSTALL UNISTRUT SUPPORT NO LESS THAN 1'-0" FROM UNISTRUT, TYPICAL ISOMETRIC VIEW EITHER SIDE OF CABLE TRAY SPLICE



REVISIONS

DESCRIPTION

TELECOM DETAILS

SHEET NAME:

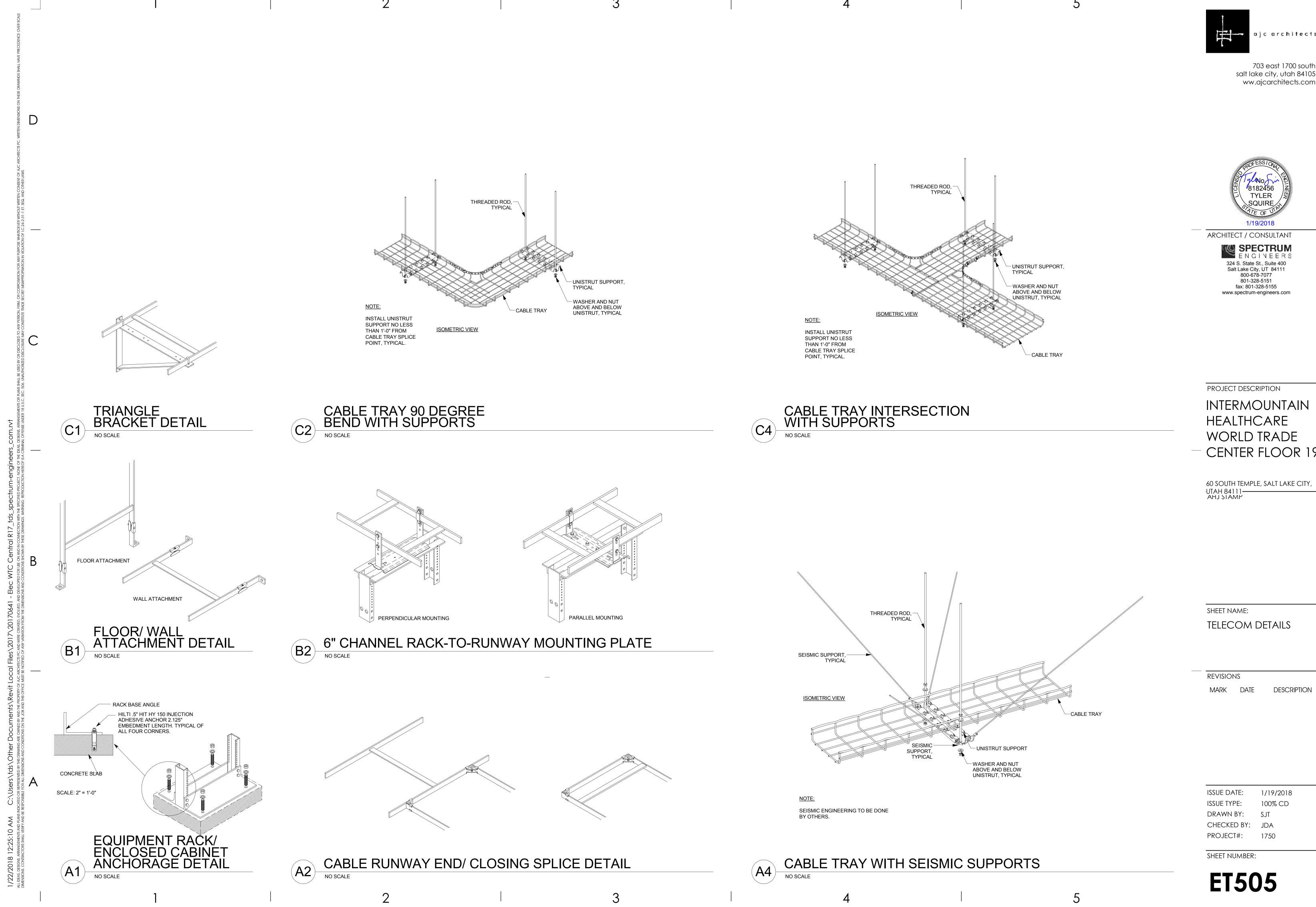
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SHEET NUMBER:

ET504

CABLE TRAY WITH SUPPORT AT SPLICE POINT

10' CABLE TRAY WITH SUPPORT AT ENDS



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INTERMOUNTAIN CENTER FLOOR 19

60 SOUTH TEMPLE, SALT LAKE CITY,

GENERAL NOTES:

- 1. ALL LOW VOLTAGE COMMUNICATIONS CONDUIT SHALL BE GROUNDED TO BASKET TRAY OR TELECOMMUNICATIONS GROUNDING BUS BAR.
- 2. "TMGB" SHOULD BE $\frac{1}{4}$ "x4"x24". PANDUIT PART NUMBER GB4B1028TPI-1, OR EQUAL.
- 3. "TGB" SHOULD BE $\frac{1}{4}$ "x2"x24". PANDUIT PART NUMBER GB2B0514TPI-1, OR EQUAL.
- 4. EMT CONDUIT GROUNDING CLAMP SHOULD BE ELECTROLYTIC CAST BRONZE. PANDUIT PART NUMBER GPL-"X"-"X", OR EQUAL.
- 5. RIGID CONDUIT GROUND CLAMP SHOULD BE O-Z/GEDNEY BLG-XXXX, OR HBLG-XXXX, OR EQUAL.
- 6. GROUNDING LUGS SHOULD BE TWO HOLE LONG BARREL LUGS. PANDUIT PART NUMBER LCC6, OR EQUAL.

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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE **WORLD TRADE** — CENTER FLOOR 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111— AHJ SIAMP

SHEET NAME:

TELECOM DETAILS

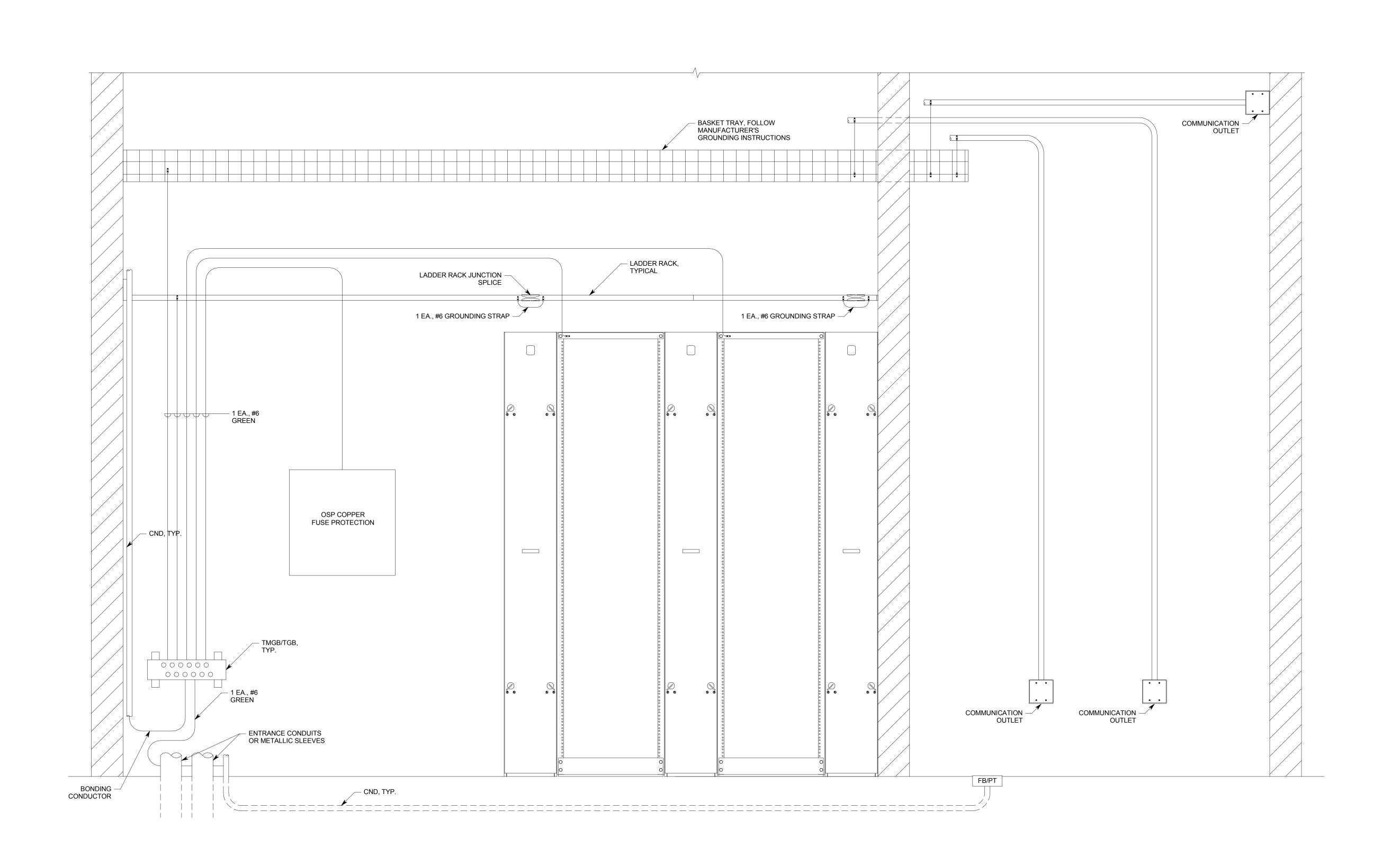
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PROJECT#: 1750

SHEET NUMBER:

ET506



TYPICAL GROUNDING RISER DETAIL

2 EA. CAT 6A F/UTP CABLE YELLOW 2 EA. CAT 6A F/UTP CABLE BLUE 2 EA. CAT 6A F/UTP CABLE BLUE 1 EA. CAT 6A F/UTP CABLE BLUE TYPICAL OF ALL VIDEO

SURVEILLANCE 1 EA. CAT 6A F/UTP CABLE BLUE -RACK MOUNTED (TYP) CAMERAS (SEE EY SHEETS) STATION **FIBER** PATCH PATCH OWNER **PANELS** PANEL SWITCH (SPP1) (TYP) (FPP1) STATION OUTLETS (TYPICAL) - SM FIBER F/UTP CAT 6A PATCH CORDS, TYP PATCH CORDS, TYP LEVEL 19, IT 1930 — 1 EA 12 STRAND SINGLE MODE FIBER TO IT ROOM ON LEVEL 16 BELOW

TELECOM CABLING RISER DIAGRAM

COIL OF EXCESS CABLE

A1 TELECOM CABLING CONDUIT RISER DIAGRAM

3

_

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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☐ SHEET KEYNOTES

 EXTEND 12 STRAND SINGLE-MODE FIBER TO LEVEL 16 IT ROOM. SPLICE TO EXISTING 96 STRAND FIBER FROM KEY BANK TOWER. USE EXISTING RACK MOUNTED FIBER SHELF.



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PROJECT DESCRIPTION

INTERMOUNTAIN
HEALTHCARE
WORLD TRADE
— CENTER FLOOR 19

SHEET NAME:

TELECOM DIAGRAMS

REVISIONS

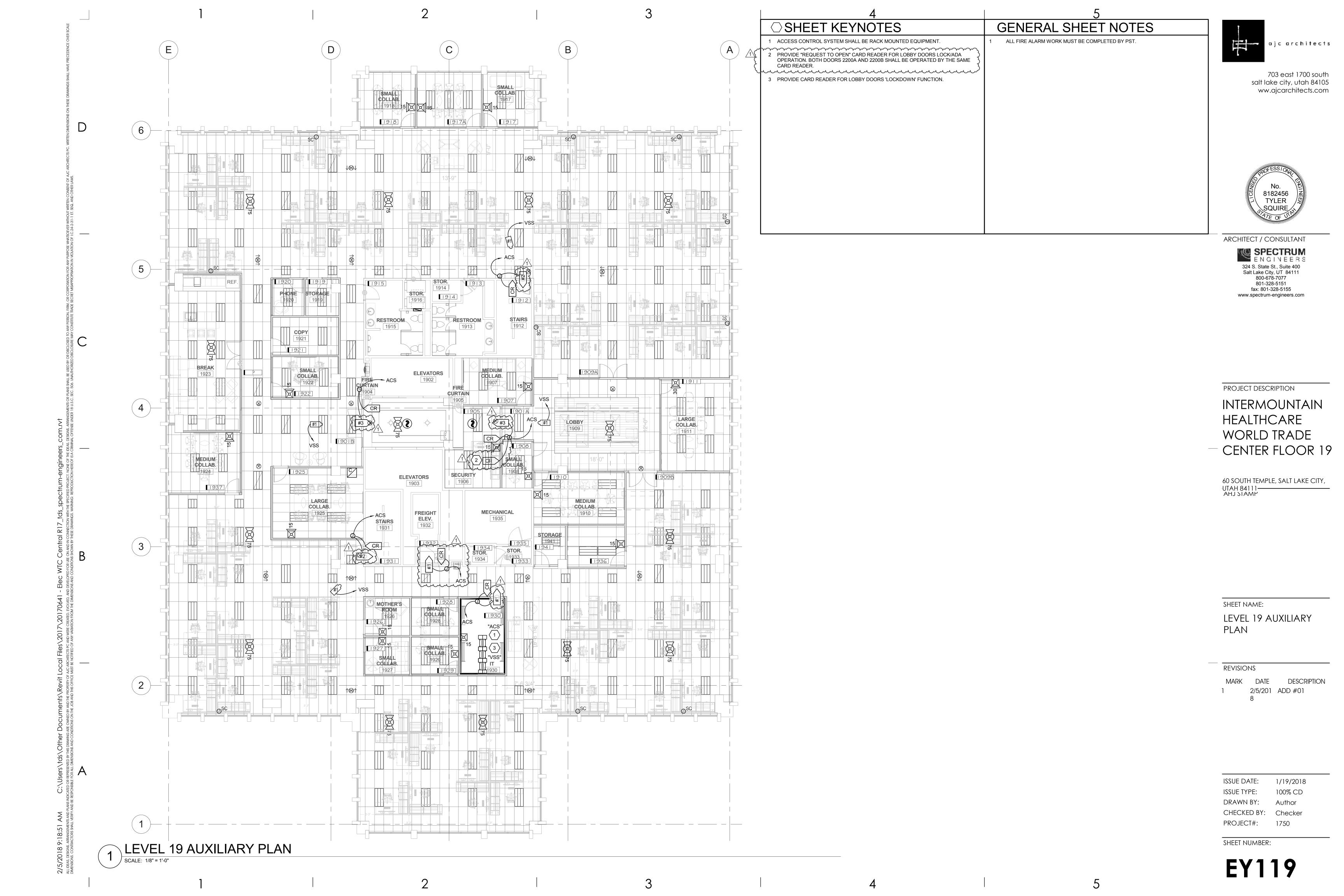
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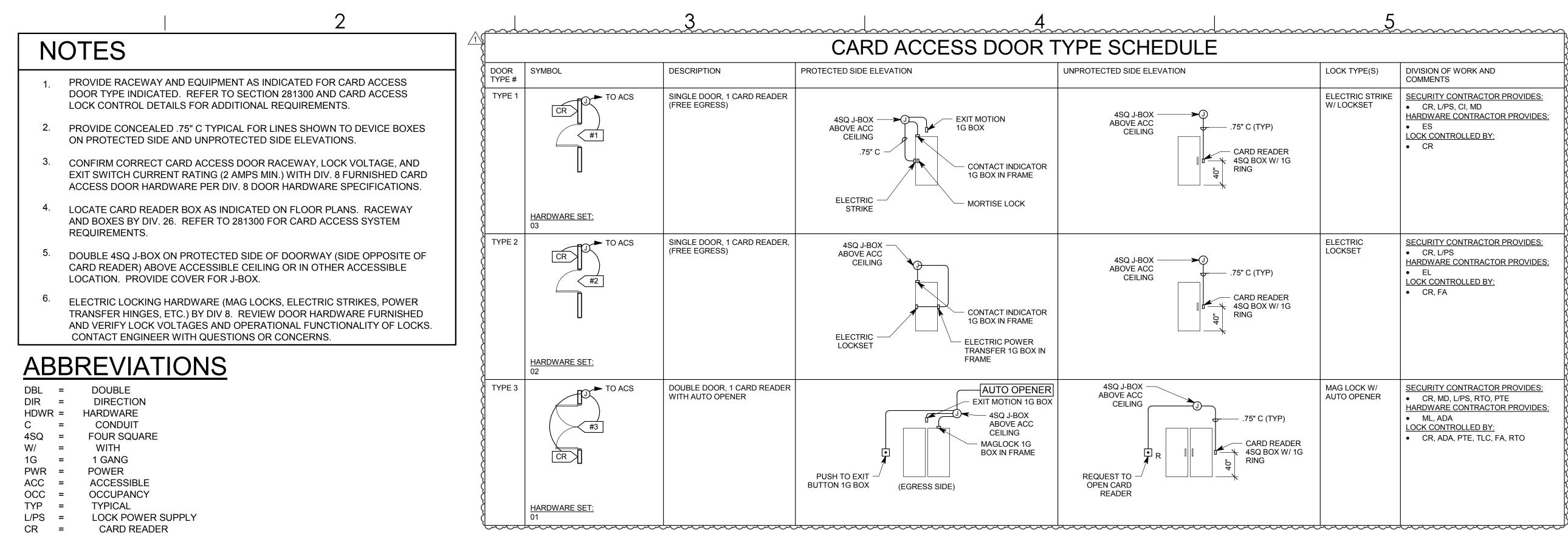
ISSUE DATE: 1/19/2018
ISSUE TYPE: 100% CD
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CHECKED BY: JDA
PROJECT#: 1750

SHEET NUMBER:

ET601





DOOR CONTACT INDICATOR ELECTRIC POWER TRANSFER

ELECTROMAGNETIC LOCK

ACCESS CONTROL SYSTEM

TIME/SYSTEM LOCK CONTROL

INTRUSION DETECTION SYSTEM

ELECTRIC EXIT DEVICE (SEE SECTION 87100)

ACCESS ELECTRIC LOCKSET (SEE SECTION 87100)

EMERGENCY LOCK CONTROL

ELECTRIC LOCKSET

MOTION DETECTOR

AUTO DOOR OPENER REQUEST TO EXIT

AS REQUIRED

CONTROLLER

DOOR HARNESS **ELECTRIC HINGE**

REQUEST TO OPEN

ELECTROLYNX ADAPTOR

~HO~~=~~~ELECTROMAGNETICHOLDER~~~~~ PUSH TO EXIT BUTTON (MAGLOCK)

FIRE ALARM SYSTEM **OBTAIN FROM PLANS**

ELECTRIC STRIKE

EXIT DEVICE

KEY SWITCH

ES

ED

ML

KS

EL

MD

TLC

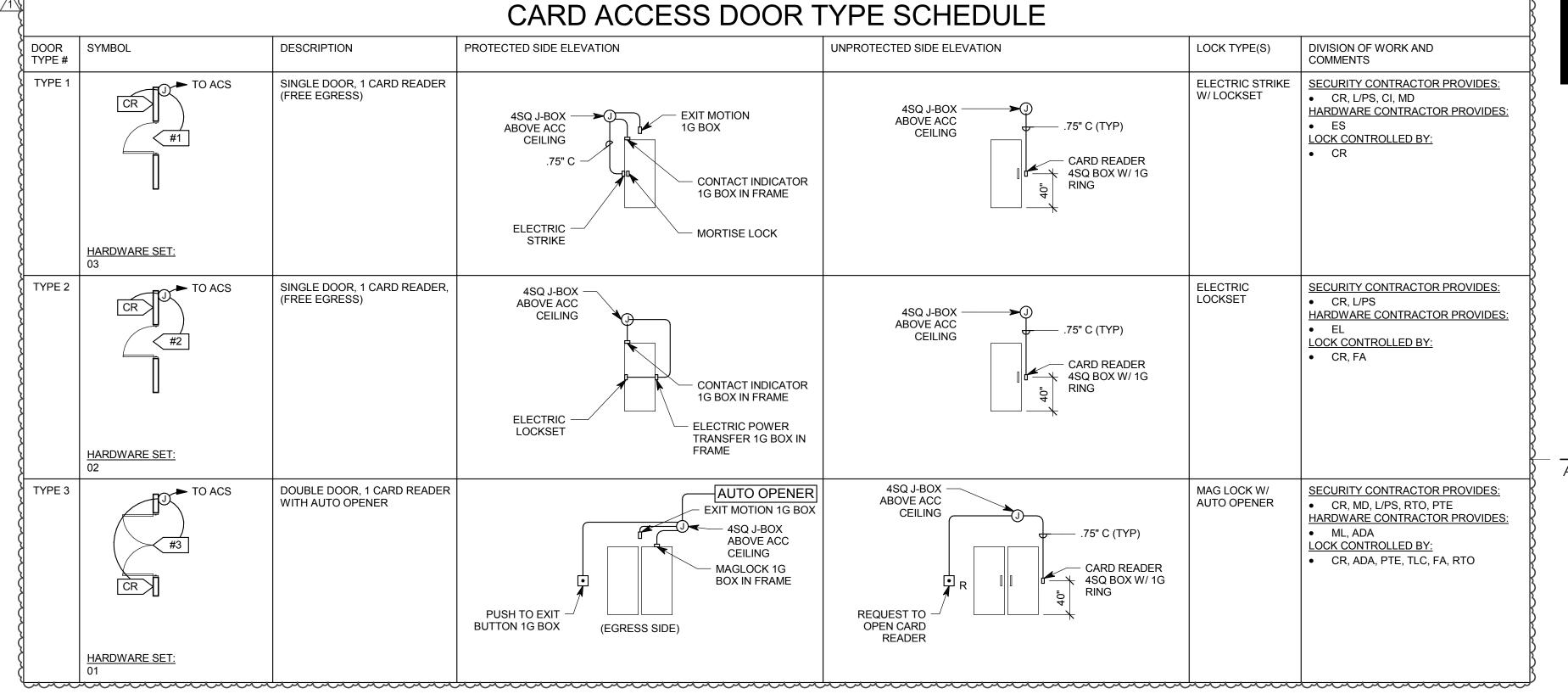
ELC

IDS

ADA

OFP A/R

LA





	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	

VSS CAMERA SCHEDULE

DESCRIPTION

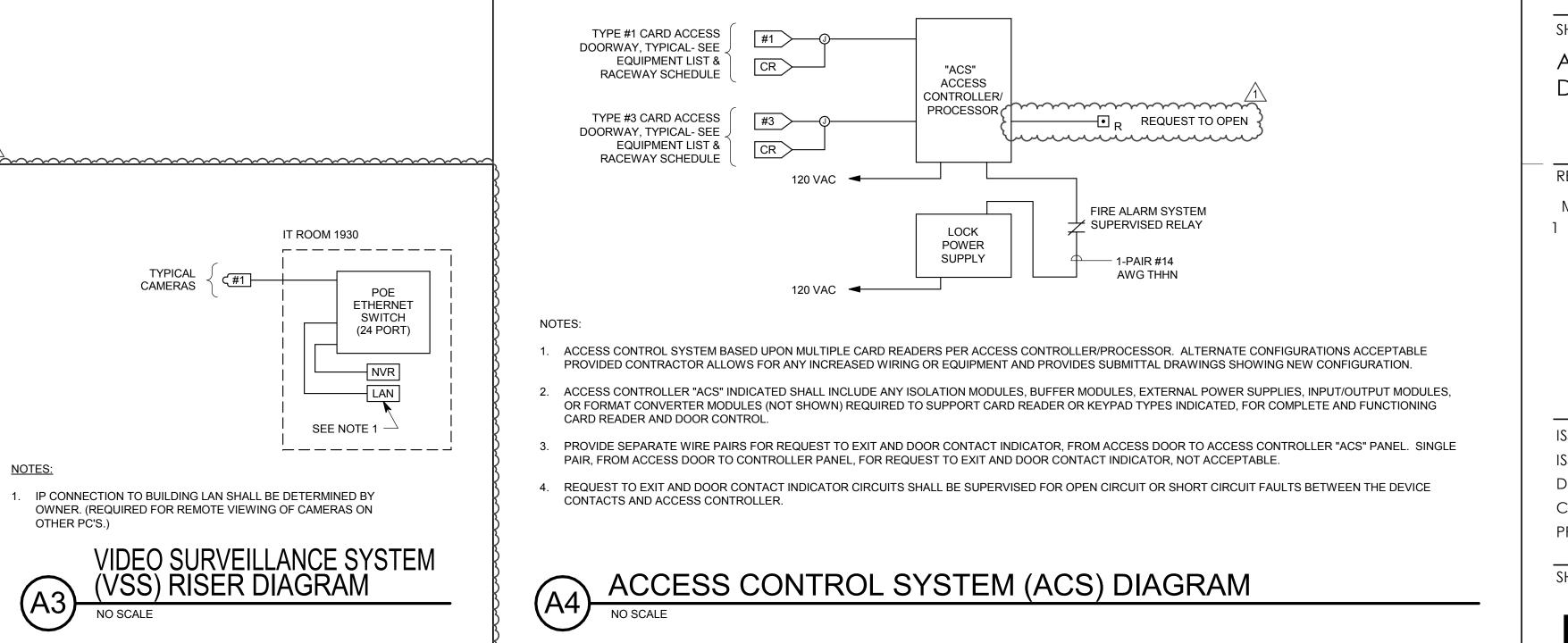
FIXED DOME, VARIFOCAL, CEILING MOUNT

* COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS BEFORE INSTALLATION.

INTERIOR (INT)/

EXTERIOR (EXT)

TYPE



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SPECTRUM SPECING... ENGINEERS 324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111-AHJ STAMP

SHEET NAME:

AUXILIARY RISER DIAGRAMS

REVISIONS

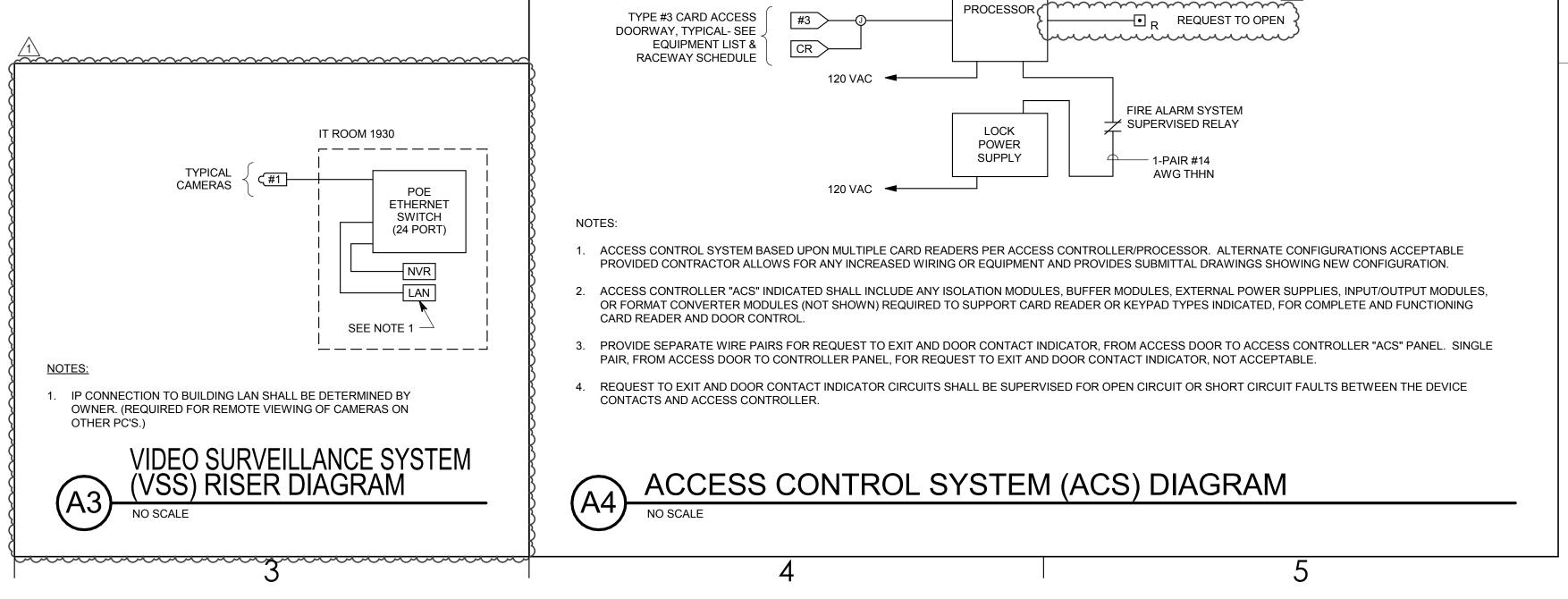
DESCRIPTION 2/5/201 ADD #01

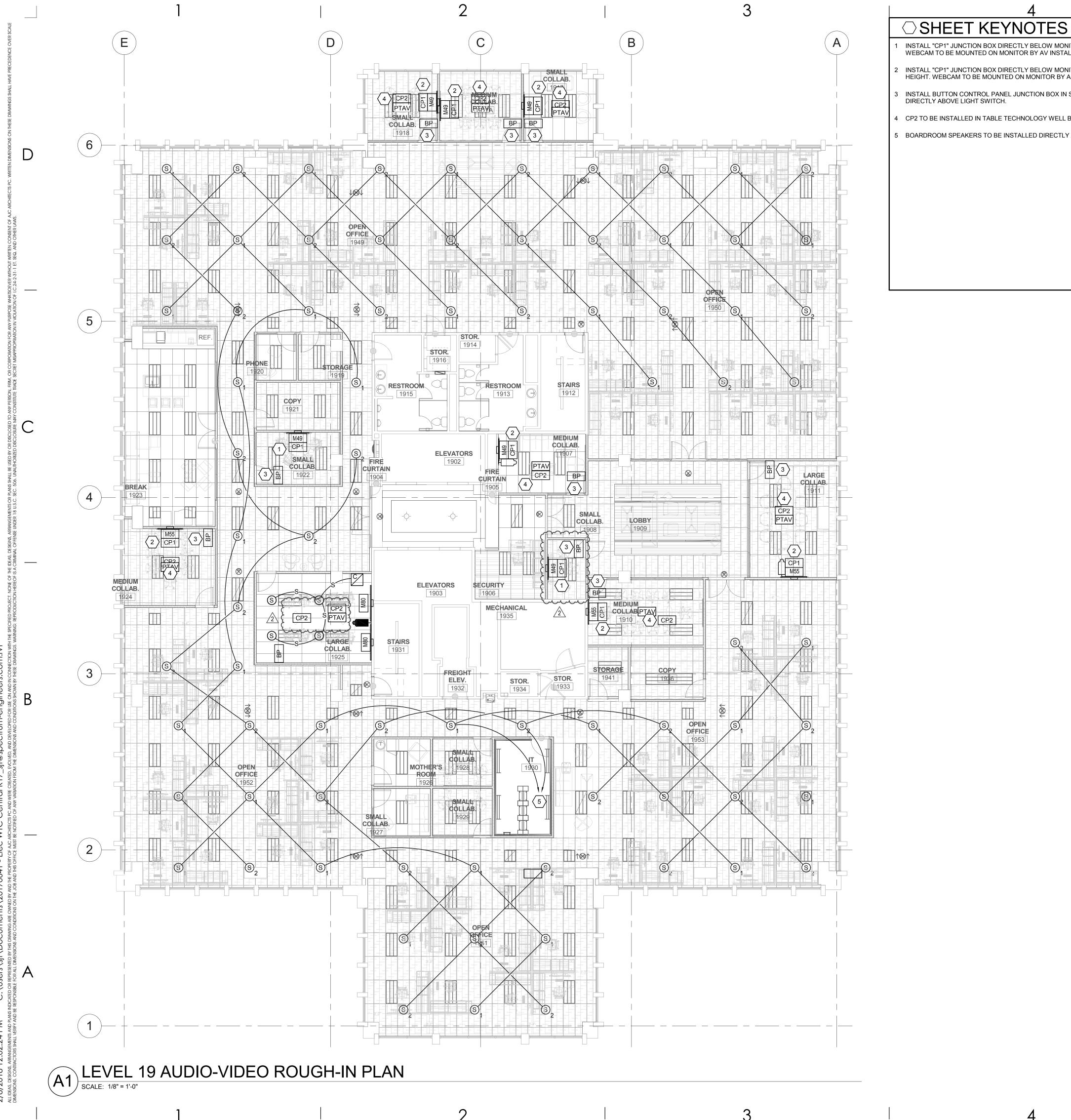
ISSUE DATE: 1/19/2018 ISSUE TYPE: 100% CD DRAWN BY: Author

CHECKED BY: Checker PROJECT#: 1750

SHEET NUMBER:

EY601





GENERAL SHEET NOTES

INSTALL "CP1" JUNCTION BOX DIRECTLY BELOW MONITOR ABOVE TABLETOP HEIGHT. WEBCAM TO BE MOUNTED ON MONITOR BY AV INSTALLER.

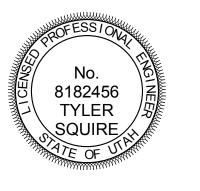
- INSTALL "CP1" JUNCTION BOX DIRECTLY BELOW MONITOR AT ELECTRICAL OUTLET HEIGHT. WEBCAM TO BE MOUNTED ON MONITOR BY A INSTALLER.
- INSTALL BUTTON CONTROL PANEL JUNCTION BOX IN SAME STUD CAVITY AND DIRECTLY ABOVE LIGHT SWITCH.
- CP2 TO BE INSTALLED IN TABLE TECHNOLOGY WELL BY AV INSTALLER.
- 5 BOARDROOM SPEAKERS TO BE INSTALLED DIRECTLY ABOVE VENTWOOD CEILING.

COORDINATE EXACT JUNCTION BOX LOCATIONS SO THAT THEY ARE EASILY ACCESSIBLE AND ARE NOT BEHIND DOORS, FURNITURE, MONITORS, ETC.



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ARCHITECT / CONSULTANT

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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE — CENTER FLOOR 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111— AHJ SIAMP

SHEET NAME:

LEVEL 19 AUDIO-VIDEO ROUGH-IN PLAN

REVISIONS

DESCRIPTION 2/8/201 ADD #02

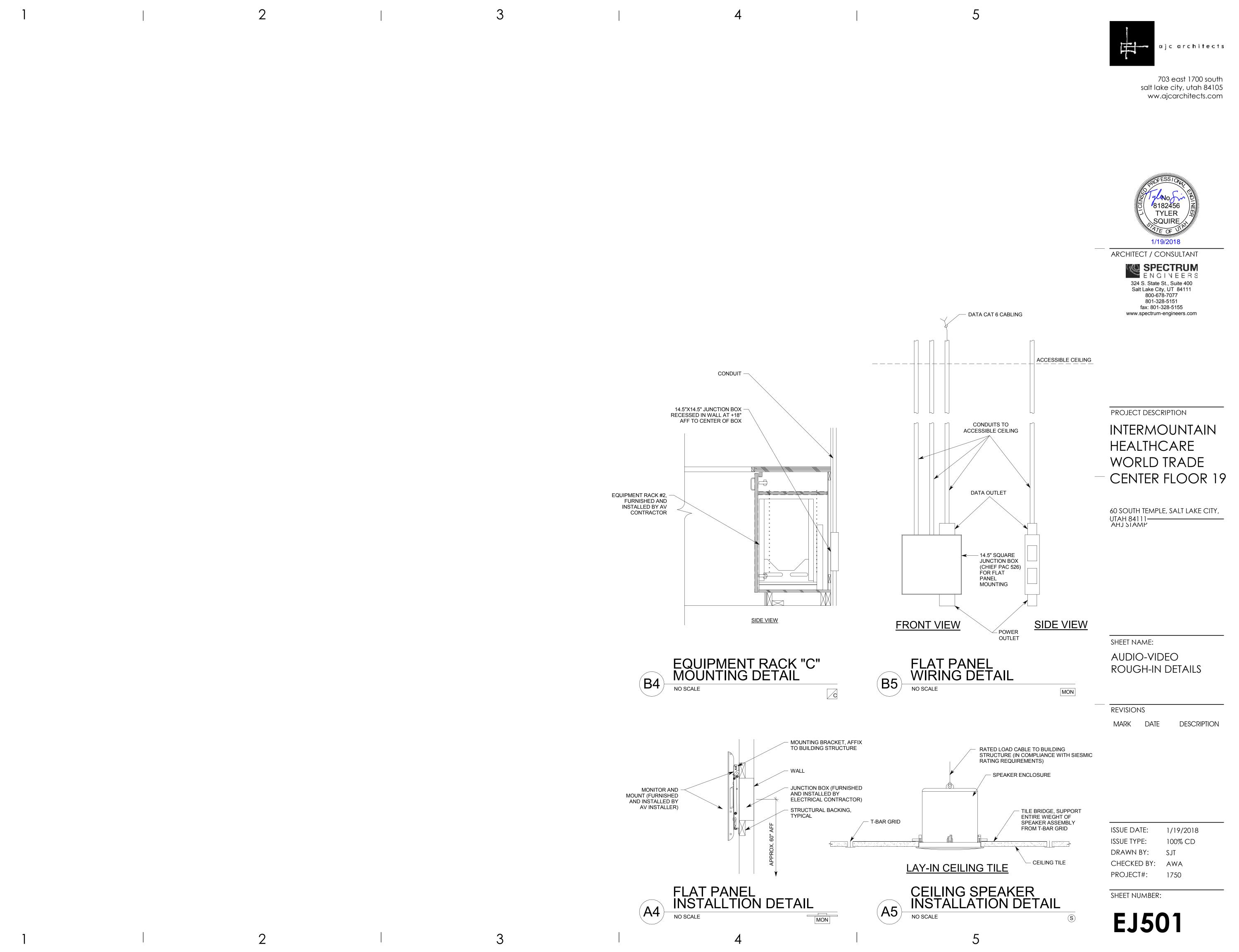
ISSUE DATE: 1/19/2018 100% CD

DRAWN BY: CHECKED BY: AWA

PROJECT#: 1750

SHEET NUMBER:

EJ119



3 4 ALIDIO VIDEO DOLICH IN SYSTEMS SCHEDLILE

PAC 526FCW

CONDUIT, 3/4" MINIMUM

YMBOL	DESCRIPTION	MOUNTING	SPECIAL INSTRUCTIONS
CP1	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
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
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 A5/EJ501
	CAMERA LOCATION	ABOVE MONITOR	FURNISHED AND INSTALLED BY AV INSTALLER
•	CAMERA LOCATION	ABOVE MONITOR	FURNISHED AND INSTALLED BY AV INSTALLER
MXX	FLAT PANEL MONITOR JUNCTION BOX, CHIEF PAC 526FCW	FLUSH IN THE WALL AT APPROXIMATELY +66" AFF TO CENTER 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
C	EQUIPMENT CABINET 'C', 14.5" SQUARE JUNCTION BOX AT +18" AFF TO CENTER OF BOX, CHIEF	WALL BEHIND EQUIPMENT RACK	SEE DETAIL B4/EJ501

CONCEALED BEHIND FINISHED

NOTED

SURFACES, UNLESS OTHERWISE

REFER TO RISER DIAGRAMS FOR EXACT

SIZES & QUANTITIES.

GENERAL SHEET NOTES

- 1. 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.
- 2. MAINTAIN MAXIMUM SEPARATION BETWEEN A/V SYSTEM CONDUIT AND ALL POWER CONDUIT. MINIMUM SEPARATION REQUIREMENTS IS 24".
- 3. INSTALL NYLON PULL STRINGS IN ALL A/V SYSTEM CONDUIT.
- 4. 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.
- 5. 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.
- 6. 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 ANSI/TIA/EIA 569-B WHICH INCLUDES, BUT IS NOT LIMITED TO, ALL CONDUITS HAVING NO MORE THAN TWO 90 DEGREE BENDS.
- 8. ALL CONDUIT FOR AV ROUGH-IN SHALL BE EMT.
- 9. ALL CONNECTION PANELS SHALL BE WITHIN 12" OF POWER AND DATA OUTLETS. NOTIFY ENGINEER IF DISCREPANCY IS FOUND.
- 10. ALL AV CONDUITS SHALL BE INSTALLED USING SHORTEST RUNS POSSIBLE. THERE SHOULD BE NO UNNECESSARY BENDS IN CONDUIT RUNS.
- 11. CONDUITS AND JUNCTION BOXES SHOWN NO RISER DIAGRAMS ARE TYPICAL FOR EACH DEVICE IN ROOM.
- 12. COVER ALL JUNCTION BOXES WITH A BLANK NYLON COVER PLATE.

DEFINITIONS

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DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "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."

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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...

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

\"	AMP OR AMPS	"IG"	INSULATED GROUND
ADJ"	ADJACENT	"IMC"	INTERMEDIATE METAL CND
NFF"	ABOVE FINISHED FLOOR	"IN/IS"	INSULATED/ISOLATED
۸L"	ALUMINUM	"KVA"	KILO VOLT AMPERES
) "	CONDUIT	"KW"	KILOWATTS
CB","C/B"	CIRCUIT BREAKER	"LFMC"	LIQUID TIGHT FLEXIBLE
CKT"	CIRCUIT		METAL CONDUIT
CO"	CONVENIENCE OUTLET	"LFNC"	LIQUID TIGHT FLEXIBLE
C.O.R."	CONTRACTING OFFICER'S		NONMETALLIC CONDUIT
	REPRESENTATIVE	"MCA"	MINIMUM CIRCUIT AMPS
CU"	COPPER	"MLO"	MAIN LUGS ONLY
A"	EACH	"N.C."	NORMALLY CLOSED
LEC"	ELECTRICAL	"N.I.C."	NOT IN CONTRACT
EM"	EMERGENCY	"N.O."	NORMALLY OPEN
EMT"	ELECTRICAL METALLIC TUBING	"O.C."	ON CENTER
NT"	ELECTRICAL NONMETALLIC TUBING	"OCP"	OVER CURRENT PROTECTION
QUIP"	EQUIPMENT	"QTY"	QUANTITY
X"	EXISTING	"R"	REMOVE
A"	FIRE ALARM	"RMC"	RIGID METAL CONDUIT
ACP"	FIRE ALARM CONTROL PANEL	"RNC"	RIGID NONMETALLIC CONDUIT
LA"	FULL LOAD AMPS	"RR"	REMOVE AND RELOCATE
MC"	FLEXIBLE METAL CONDUIT	"TYP"	TYPICAL
O.B."	FREIGHT ON BOARD	"UF"	UNDER FLOOR
GFI"	GROUND FAULT INTERRUPTER	"UG"	UNDER GROUND
SR"	GROUND	"W/"	WITH
HOA"	HAND-OFF-AUTO	"WP"	WEATHER PROOF
ŀP"	HORSE POWER	"XFMR"	TRANSFORMER



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PROJECT DESCRIPTION

INTERMOUNTAIN
HEALTHCARE
WORLD TRADE
CENTER FLOOR 19

SHEET NAME:

AUDIO-VIDEO ROUGH-IN SCHEDULES, NOTES, AND RISER DIAGRAMS

REVISIONS

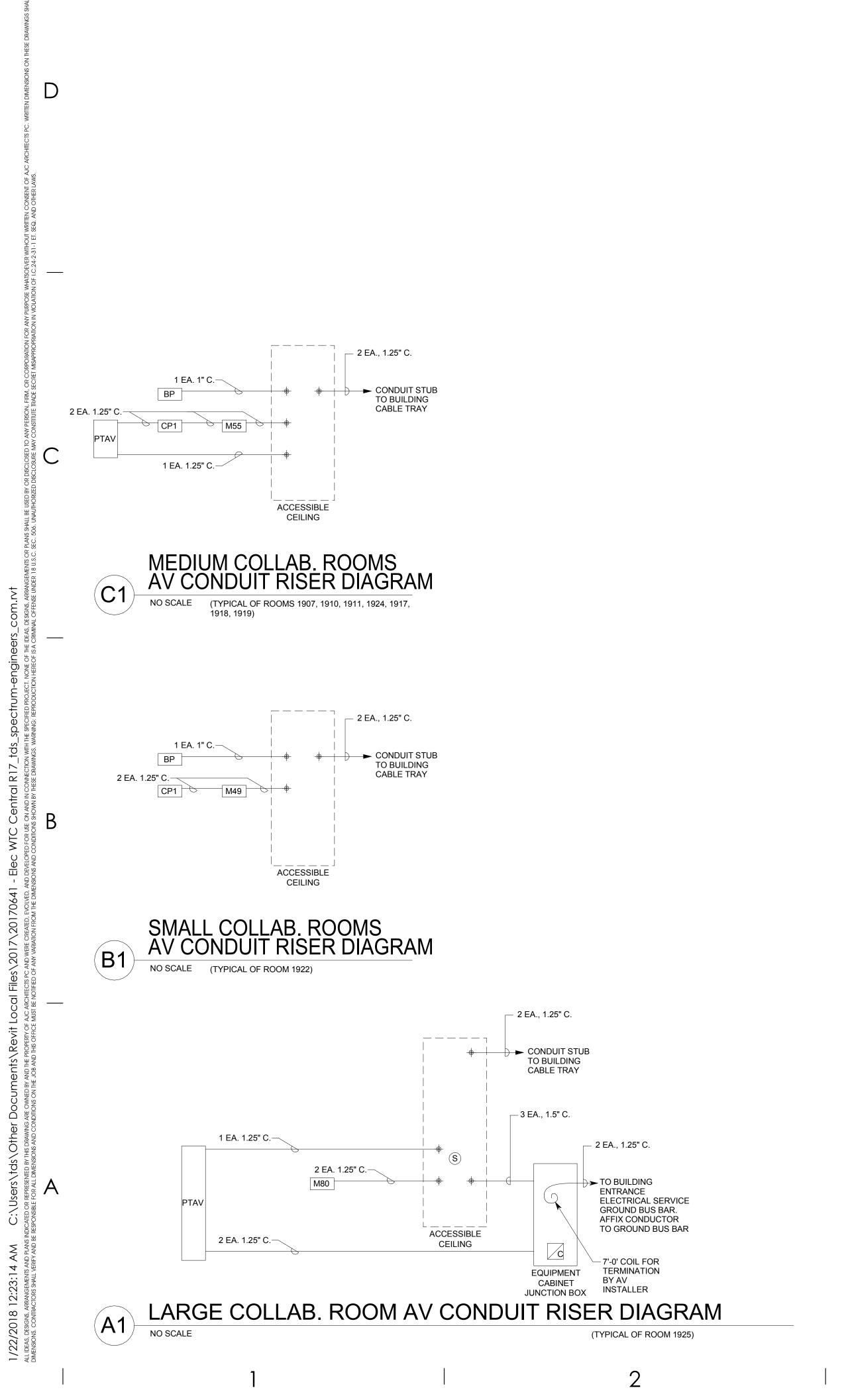
C DATE DESCRIPTION

ISSUE DATE: 1/19/2018
ISSUE TYPE: 100% CD
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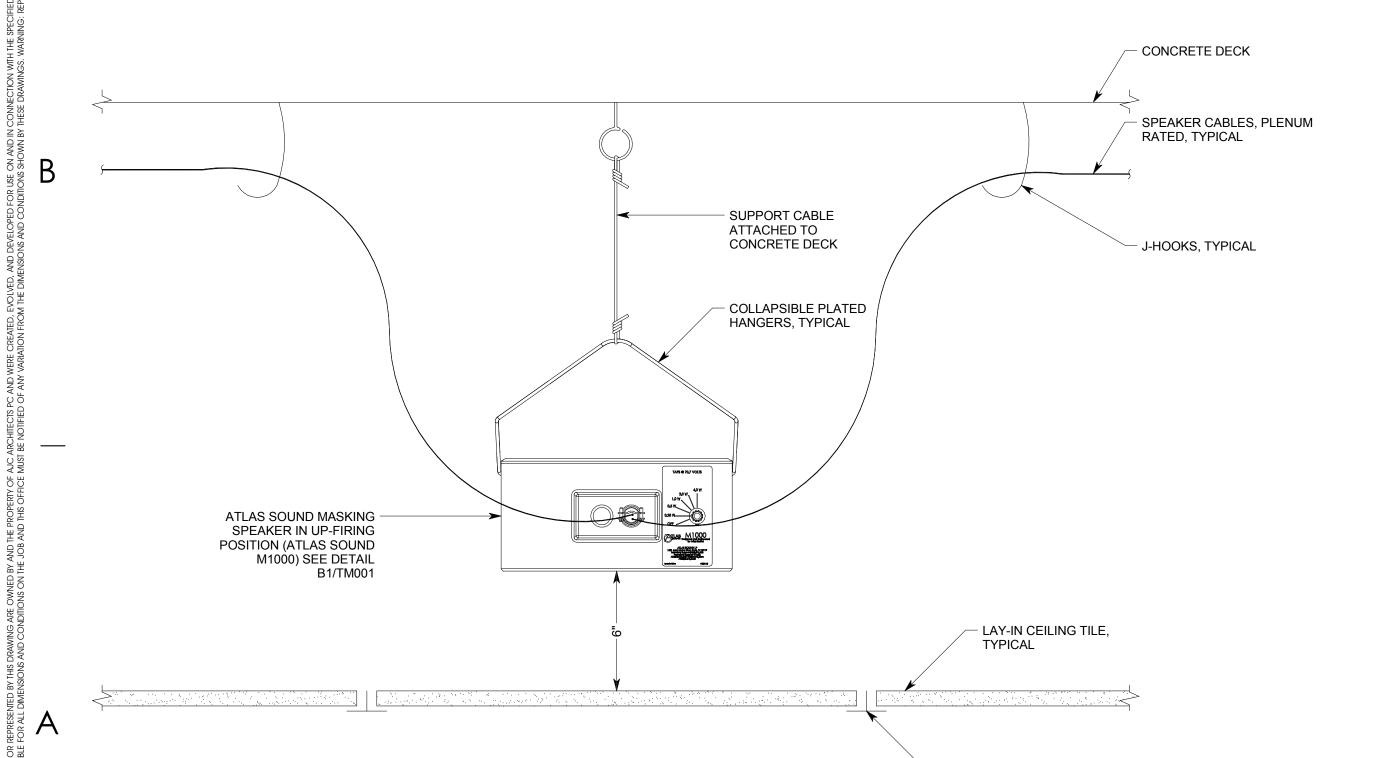
DRAWN BY: SJT
CHECKED BY: AWA
PROJECT#: 1750

SHEET NUMBER:

EJ601



— 11.63" —



SOUND MASKING SPEAKER INSTALLATION DETAIL

T-BAR GRID, TYPICAL

SOUND MASKING SPEAKER DETAIL (ATLAS SOUND M1000)

SOUND MASKING 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 DESCRIPTIONS.

SYMBOL	DESCRIPTION	QUANTITY	ACCEPTABLE TYPES
NG	MASKING NOISE GENERATOR, MULTI-CHANNEL W/ EQUALIZATION	1	ATLAS SOUND ASP-MG24 TDB
(S) _{1,2}	MASKING SPEAKER ASSEMBLY, UPWARD RADIATING W/ 8" SPEAKER, SUSPENSION CHAIN, AND ROTARY TAP SELECTION	OFP	ATLAS SOUND M1000, SEE DETAIL B1/TM001
PA	POWER AMPLIFIER, 4-CHANNEL, 70V, MINIMUM 200 WATTS PER CHANNEL	OFP	CROWN DCi 4-300 QSC-CX204V
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR, 20 AMP	OFP	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 25226B

- MASKING

SPEAKER ARRAY 19TH FLOOR

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

SOUND MASKING NOTES

1. 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.

2. 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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INTERMOUNTAIN
HEALTHCARE
WORLD TRADE
CENTER FLOOR 19

60 SOUTH TEMPLE, SALT LAKE CITY,
UTAH 84111
AHJ SIAMP

SHEET NAME:

SOUND MASKING SYSTEM DETAILS, DIAGRAM, NOTES, AND SCHEDULE

DESCRIPTION

REVISIONS

MARK DATE

ISSUE DATE: 1/19/2018
ISSUE TYPE: 100% CD
DRAWN BY: SJT

CHECKED BY: AWA PROJECT#: 1750

SHEET NUMBER:

TM001



TO ALL EQUIPMENT

120 VAC > TVSS

EQUIPMENT RACK

EXTRON

VGA CABLE

ER = EQUIPMENT RACK

AUDIO-VIDEO SYSTEM CABLE INSTALLATION REQUIREMENTS SCHEDULE				
ORIGIN	DESTINATION	CABLE TYPE	QUANTITY	SPECIAL INSTRUCTIONS
		Н	1	
CP1	ER OR DISPLAY	R	1	
	3.01.27.1	L	2	
		Н	1	
CP2	DISPLAY	R	1	
		L	2	
S	ER	S	1	CIRCUIT TO ALL SPEAKERS AS SHOWN ON PLAN SHEETS
LARGE		Р	2	
COLLAB.	ER	M	2	
TABLE		D	1	
	- FD	Р	1	
	ER	С	1	
M80	ER	Р	1	
		D	1	
BP	DISPLAY	С	3	
		S	1	USE 'S' CABLE FOR POWER AS NEEDED

CABLE INSTALLATION REQUIREMENTS APPLY TO EVERY DEVICE LOCATION SHOWN IN EVERY ROOM.

4

AUDIO-VIDEO SHEET INDEX SHEET NO SHEET TITLE TA001 AUDIO-VIDEO SYSTEMS SCHEDULES AND NOTES TA002 AUDIO-VIDEO SYSTEMS EQUIPMENT LIST TA501 AUDIO-VIDEO SYSTEMS DETAILS TA601 AUDIO-VIDEO SYSTEMS DIAGRAMS

AUDIO-VIDEO SIGNAL TYPE ABBREVIATIONS SCHEDULE

ABBREVIATION	SIGNAL TYPE
AL	AUDIO, LEFT, (LINE LEVEL)
AR	AUDIO, RIGHT, (LINE LEVEL)
AA	ANALOG AUDIO
F	OPTICAL FIBER
V	VIDEO, COMPOSITE-STANDARD RESOLUTION ANALOG VIDEO
YC	S-VIDEO-STANDARD RESOLUTION ANALOG VIDEO
YUV	COMPONENT VIDEO-STANDARD RESOLUTION ANALOG VIDEO
RGBHV	RED, GREEN, BLUE, HORIZONTAL & VERTICAL SYNC-HIGH RESOLUTION ANALOG VIDEO
XGA/VGA	EXTENDED GRAPHICS ARRAY/VIDEO GRAPHICS ARRAY-HIGH RESOLUTION ANALOG VIDEO
DVI	DIGITAL VIDEO INTERFACE-HIGH RESOLUTION DIGITAL VIDEO
HDMI	HIGH DEFINITION MULTIMEDIA INTERFACE-HIGH RESOLUTION DIGITAL VIDEO
DP	DISPLAY PORT-HIGH RESOLUTION DIGITAL VIDEO
TP	TWISTED PAIR
IP	INTERNET PROTOCOL
SDI	SERIAL DIGITAL INTERFACE
	I .

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

GENERAL AUDIO-VIDEO SYSTEMS NOTES

- 1. CONDUCT AN RF FREQUENCY AUDIT OF THE SITE PRIOR TO SELECTION OF WIRELESS RF OPERATING FREQUENCIES. SELECT FREQUENCIES TO ASSURE INTERFERENCE FREE OPERATION. INSTALL ANTENNAS/TRANCEIVERS OUTSIDE OF THE EQUIPMENT RACK, AT AN ARCHITECT APPROVED LOCATION, WHERE THE BEST SYSTEM PERFORMANCE IS ACHIEVED.
- 2. FILL ALL UNUSED RACK SPACE WITH BLANK/VENT PANELS.
- 3. INSTALL/SUSPEND ALL EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS, SEISMIC SPECIFICATION SECTION, AND INDUSTRY WIDE ACCEPTED RIGGING PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM STRUCTURE ABOVE CEILINGS. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.
- 4. PROVIDE MANUFACTURER RECOMMENDED POWER SUPPLIES AND/OR TRANSFORMERS FOR ALL SPECIFIED EQUIPMENT.
- 5. FURNISH AND INSTALL ALL CABLE AND CONNECTORS REQUIRED FOR ALL AUDIO AND VIDEO SYSTEMS TO COMPLETE MANUFACTURER RECOMMENDED CABLE TO EQUIPMENT TERMINATION TO FORM A COMPLETE AND FULLY FUNCTIONAL SYSTEM AS SHOWN. SELECT CONNECTORS WHICH PASS FULL BANDWIDTH CAPABILITY OF SPECIFIED CABLE. PROVIDE CABLE TYPES AS IDENTIFIED IN THE AUDIO/VIDEO CABLE SCHEDULE.
- 6. PROVIDE PATCH CABLES TO FULLY INTERCONNECT ALL SPECIFIED AND/OR OWNER FURNISHED EQUIPMENT WITH THE SPECIFIED CONNECTION PANELS, SYSTEM INTERFACES, AND MISCELLANEOUS EQUIPMENT.
- 7. PROVIDE MANUFACTURER RECOMMENDED, AND INDUSTRY STANDARD, SIGNAL LEVELS AND COMMUNICATION PROTOCOLS THROUGHOUT ENTIRE SYSTEM REGARDLESS OF CABLE LENGTHS. PROVIDE ALL REQUIRED DISTRIBUTION AND PROCESSING EQUIPMENT, INCLUDING BUT NOT LIMITED TO SIGNAL DISTRIBUTION AMPLIFIERS, LINE AMPLIFIERS, LINE DRIVERS, EQUALIZING AMPLIFIERS, GROUND/HUM ISOLATORS, MATCHING/ISOLATION TRANSFORMERS, CONTROL BUS DEVICES, COMMUNICATIONS CONVERTERS, ETC..., WHETHER SHOWN IN THE SINGLE LINE DIAGRAMS OR NOT.
- 8. PROVIDE POWER, CURRENT, AND/OR SIGNAL SENSORS FOR ALL EQUIPMENT WHERE IT IS NECESSARY FOR CORRECT CONTROL SYSTEM OPERATION.
- 9. PROVIDE PRE-MANUFACTURED ADAPTER CABLES WHERE REQUIRED FOR MATING CABLE TO CONNECTORS. THESE WILL INCLUDE, BUT ARE NOT LIMITED TO, ADAPTERS WHICH MATE DVI OR DISPLAY PORT TO HDMI, STEREO AUDIO TO MONO AUDIO, CONNECTORS, AND OTHER SIMILAR TERMINATION AND MATING REQUIREMENTS.
- 10. PROVIDE RACK MOUNT KITS FOR ALL RACK MOUNTED EQUIPMENT. WHERE MANUFACTURERS DO NOT PROVIDE RACK MOUNT KITS, PROVIDE CUSTOM RACK MOUNT KITS AS SPECIFIED.
- 11. WHERE ANY CABLE IS INSTALLED IN A FASHION WHERE EXPOSED TO PUBLIC VIEW, INSTALL CABLE INSIDE THE SPECIFIED BRAIDED EXPANDABLE SLEEVING. EXAMPLES OF SUCH LOCATIONS INCLUDE, BUT ARE NOT LIMITED TO EQUIPMENT ITEMS ON LECTERNS AND CEILING MOUNTED PROJECTORS.
- 12. PROVIDE PERMANENT, MECHANICALLY PRODUCED LABELS ON ALL CABLES AT CONNECTORS AND TERMINATION POINTS.
- 13. CONTROL SPECIFIED DEVICES UTILIZING THE MOST SOPHISTICATED COMMUNICATIONS PROTOCOL AVAILABLE ON THE DEVICE TO BE CONTROLLED. ALWAYS USE RS-232 OR ETHERNET WHEN AVAILABLE.
- COVER JUNCTION BOXES WITH NO SPECIFIED AV DEVICES WITH BLANK NYLON COVER PLATE. COLOR TO MATCH ELECTRICAL DEVICES.
- 15. PROVIDE THE SPECIFIED ETHERNET NETWORK SWITCHES IN ALL CONTROL SYSTEMS WHERE REQUIRED TO COMPLY WITH THE CONTROL SYSTEM SINGLE LINE DIAGRAMS SHOWN IN THE DRAWINGS, AND THE PROGRAMMING OUTLINE. CONNECT EVERY CONTROL SYSTEM PROCESSOR, TO THE OWNER'S ETHERNET NETWORK AND COMPLY WITH ALL PROGRAMING REQUIREMENTS.
- 16. CONNECT ALL SPECIFIED AV EQUIPMENT TO 120 VAC VIA A SPECIFIED TRANSIENT VOLTAGE SURGE SUPPRESSOR INCLUDING ALL MONITORS AND PROJECTORS.
- 17. SET EDID MINDERS FOR ALL EDID CAPABLE DEVICES TO A RESOLUTION DESIGNATED BY THE OWNER/DESIGNER DURING THE SYSTEM COMMISSIONING
- 18. SET ALL PLAYBACK DEVICES (DVD, TUNERS, ETC...) TO RGB COLOR SPACE.
- 19. PROVIDE THE PLENUM RATED EQUIVALENT CABLE IF CABLE IS INSTALLED IN AN AIR PLENUM.
- 20. VERY CAREFULLY SUPPORT THE WEIGHT OF ALL HDMI CABLES CONNECTED TO RACK MOUNTED EQUIPMENT USING LOCKIT CABLE LACING BRACKETS AND RACK MOUNTED LACING BARS. PROFESSIONALLY DRESS, LACE, AND STRAIN RELIEF CABLES SO THAT NO WEIGHT FROM INDIVIDUAL HDMI CABLES IS TRANSFERRED TO INDIVIDUAL HDMI CONNECTORS. INSTALL THE SPECIFIED HDMI CABLE LACING BRACKETS ON ALL HDMI CONNECTORS IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 21. SEE "EJ" SHEETS FOR AUDIO-VIDEO ROUGH-IN AND DEVICE LOCATIONS.



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PROJECT DESCRIPTION

INTERMOUNTAIN
HEALTHCARE
WORLD TRADE
CENTER FLOOR 19

SHEET NAME:

AUDIO-VIDEO SYSTEMS SCHEDULES AND NOTES

REVISIONS

MARK DATE DESCRIPTION
2 2/8/201 ADD #02

ISSUE DATE: 1/19/2018
ISSUE TYPE: 100% CD
DRAWN BY: SJT

DRAWN BY: SJT
CHECKED BY: AWA
PROJECT#: 1750

SHEET NUMBER:

TAMM

3

5

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
<u>(S)</u>	SPEAKER, 6.5", CEILING MOUNTED, W/ GRILLE AND TILE RAILS	OFP	COMMUNITY D6 W/ REQUIRED ACCESSORIES
NS	NETWORK SWITCH, POE, GIGABIT, MANAGED	A/R	CISCO OR EQUAL
DTX	TWISTED PAIR DIGITAL VIDEO TRANSMITTER, HDMI IN, W/MOUNTING HARDWARE	OFP	EXTRON DTP HDMI 4K 230 Tx
DRX	TWISTED PAIR DIGITAL VIDEO RECEIVER, HDMI OUT, W/MOUNTING HARDWARE	OFP	EXTRON DTP HDMI 4K 230 Rx
	POWER AMPLIFIER, 70V, MONO, 200 WATT	OFP	EXTRON XPA2001
DT3	TWISTED PAIR DIGITAL VIDEO TRANSMITTER AND 3X1 HDMI/ VGA SWITCHER, W/ MOUNTING HARDWARE	OFP	EXTRON DTP T DSW 4K 233
CP1	CONNECTION PANEL #1	OFP	2-GANG PLATE W/ CUSTOM CONNECTIONS AND ENGRAVING AS DETAILED
CP2	CONNECTION PANEL #2	OFP	EXTRON W/ AAP100 MOUNTING FRAME, HDMI AND VGA AAP PLATES
VSW	VGA SWITCHER, 2X1	OFP	EXTRON VSW 2VGA A
M49	FLAT PANEL DISPLAY, 49", LCD, MINIMUM 1080p	OFP	LG 49LW540S, OR AS APPROVED
IVI43	FIXED WALL MOUNT, LANDSCAPE	OFP	CHIEF MSTU W/ ALL NECESSARY ACCESSORIES, INCLUDING CAMERA SHELF
M55	FLAT PANEL DISPLAY, 55", LCD, MINIMUM 1080p	OFP	LG 55LW540S, OR AS APPROVED
14100	FIXED WALL MOUNT, LANDSCAPE	OFP	CHIEF MSTU W/ ALL NECESSARY ACCESSORIES, INCLUDING CAMERA SHELF
M80	FLAT PANEL DISPLAY, 80", LCD, MINIMUM 1080p	OFP	SHARP LC-80LE661U, OR AS APPROVED
	FIXED WALL MOUNT W/ MONITOR MATING PLATE	OFP	CHIEF LSA1U
CM H	CAMERA, PTZ, USB CONNECTIVITY, 10X ZOOM AND MIC CONNECTION	OFP	VADDIO CONFERENCE SHOT AV BUNDLE - INTEGRATOR 1 (WITHOUT SPEAKER), 999-9995-800
COD CTRL	VIDEO CONFERENCING/ COLLABORATION SYSTEM, INCLUDING TRACKING CAMERA, TABLE MICROPHONES, AND CONTROL TOUCH PANEL	OFP	CISCO SPARK ROOM KIT PLUS W/ CISCO TABLE MICROPHONE AND PoE INJECTOR
ВР	BUTTON CONTROL PANEL	OFP	EXTRON MLC PLUS 100, LABELED PER DETAIL
CPU	RESIDENT COMPUTER	0	OWNER FURNISHED
HEQ	HDMI CABLE EQUALIZER	OFP	EXTRON HD 4K 101 PLUS
HSW	HDMI SWITCHER, AUTO, 4x1	OFP	CRESTRON HD-MD4X1-4K-E
C	CREDENZA MOUNTED EQUIPMENT RACK	OFP	MIDDLE ATLANTIC C5-FF27-1 MODERNO, OWNER TO SELECT COLOR
	CUSTOM RACK MOUNT KITS, SEE NOTE 10	A/R	MIDDLE ATLANTIC RSH SERIES
	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 FLEXO PET
	TRANSIENT VOLTAGE SURGE SUPPRESSOR, PROJECTORS	OFP	SURGEX SA82 OR
TVSS	AND MONITORS		TRIPP LITE ISOBAR6

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



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PROJECT DESCRIPTION

INTERMOUNTAIN
HEALTHCARE
WORLD TRADE
CENTER FLOOR 19

60 SOUTH TEMPLE, SALT LAKE CITY,
UTAH 84111
AHJ STAMP

SHEET NAME:

AUDIO-VIDEO SYSTEMS EQUIPMENT LIST

REVISIONS

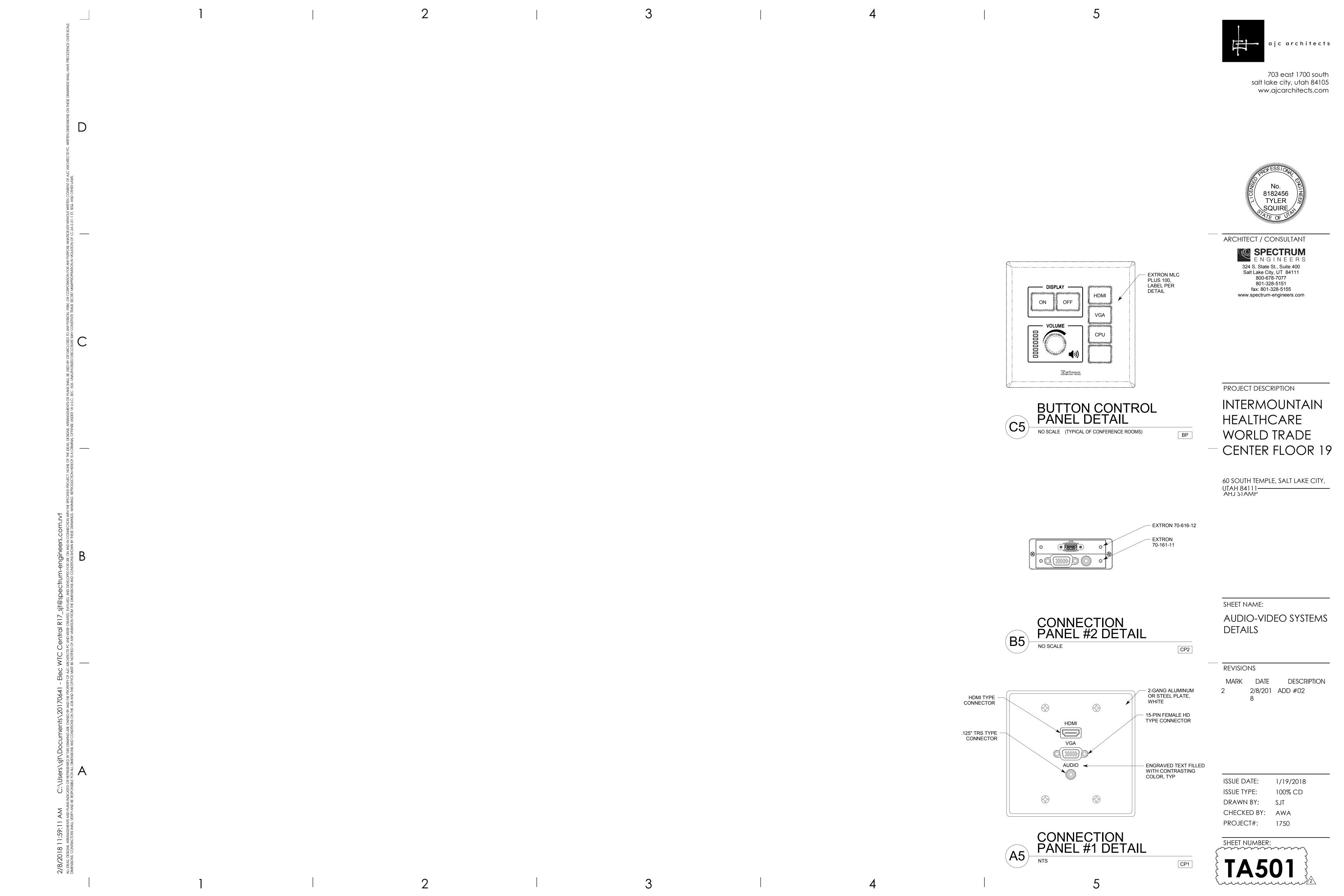
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2 2/8/201 ADD #02

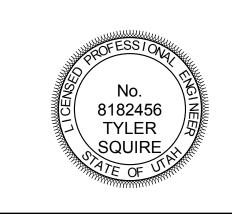
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PROJECT DESCRIPTION

INTERMOUNTAIN HEALTHCARE WORLD TRADE CENTER FLOOR 19

60 SOUTH TEMPLE, SALT LAKE CITY, UTAH 84111— AHJ SIAMP

SHEET NAME:

AUDIO-VIDEO SYSTEMS DIAGRAMS

REVISIONS

(TYPICAL OF ROOMS 1907, 1911)

DESCRIPTION 2/8/201 ADD #02

ISSUE DATE: 1/19/2018 100% CD DRAWN BY:

CHECKED BY: AWA 1750 PROJECT#:

SHEET NUMBER:

CP2 HDMI VGA AUDIO RS-232 BP ETHERNET (PoE) TO BUILDING NETWORK **EQUIPMENT** 120 VAC > TVSS MONITOR BACK BOX

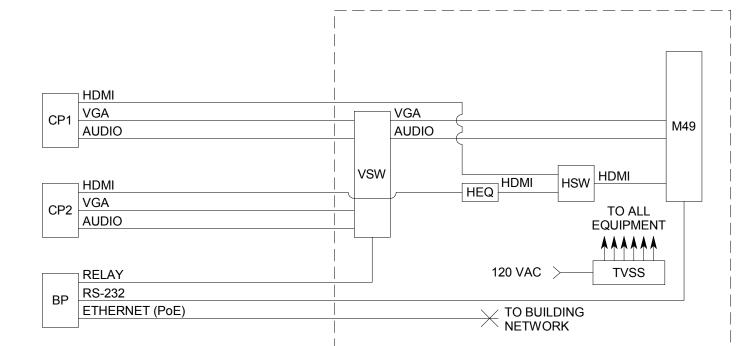
COLLABORATION/OPEN OFFICE AREA AV SYSTEM RISER DIAGRAM

(TYPICAL OF ROOMS 1908, 1922)

CPU HDMI CM CP1 HDMI VGA AUDIO AUDIO CP2 HDMI VGA TO ALL EQUIPMENT AUDIO TVSS BP RELAY RS-232 ETHERNET (PoE) 120 VAC > TO BUILDING NETWORK

MONITOR BACK BOX

MEDIUM COLLABORATION ROOM AV SYSTEM RISER DIAGRAM



SMALL/MEDIUM COLLABORATION ROOM AV SYSTEM RISER DIAGRAM

COD HDMI

-DRX HDMI

— DRX HDMI

POEI ENET

LARGE COLLABORATION ROOM AV SYSTEM RISER DIAGRAM

DTX TP

70V

TO ALL EQUIPMENT

120 VAC > TVSS

7.5W

TO BUILDING NETWORK

7.5W

CONTROL

MIC MIC MIC MIC

CP2 VGA

CTRL ETHERNET (PoE)

(TYPICAL OF ROOMS 1910, 1917, 1918, 1919, 1924)