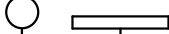


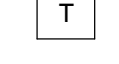
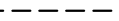
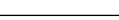
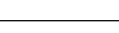
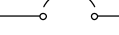
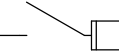
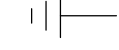
WIRING DEVICES

	DUPLEX RECEPTACLE
	FOUR PLEX RECEPTACLE
	SINGLE RECEPTACLE
	COMBO RECEPTACLE/SWITCH
	SWITCHED DUPLEX RECEPTACLE
	EMERGENCY POWERED DUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE
	FLOOR MOUNTED SPECIAL PURPOSE RECEPTACLE
	FLOOR MOUNTED RECEPTACLE DUPLEX/QUAD
	CEILING MOUNTED RECEPTACLE DUPLEX/QUAD
	SURFACE RACEWAY
	CLOCK RECEPTACLE
	JUNCTION BOX
	WALL MOUNTED J-BOX
	FLOOR MOUNTED JUNCTION BOX
	MOLDED CASE CIRCUIT BREAKER IN ENCLOSURE
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MAGNETIC CONTROLLER (STARTER)
	COMBINATION STARTER/DISCONNECT SWITCH
	MOTOR
	RELAY
	TIME CLOCK
	PHOTOCELL
	THERMAL OVERLOAD SWITCH
	SINGLE POLE SWITCH, LINE VOLTAGE
	3-WAY SWITCH, LINE VOLTAGE
	4-WAY SWITCH, LINE VOLTAGE
	KEY OPERATED SWITCH
	DIMMER SWITCH, LINE VOLTAGE
	RECESSED DOOR SWITCH
	LIGHTING CONTROL DEVICE, REFER TO DETAILS FOR CONTROL INTENT

LIGHTING FIXTURES

A1 _a	LUMINAIRE TYPE, REFERENCING LUMINAIRE SCHEDULE, TYPICAL ALL FIXTURES. SUBSCRIPT, IF SHOWN, REFERENCES WALL SWITCH OR RELAY / ZONE CONTROL
	WALL MOUNTED LUMINAIRE
	SURFACE OR PENDANT MOUNTED LUMINAIRE
	RECESSED LUMINAIRE
	RECESSED DOWNLIGHT LUMINAIRE
	SURFACE CEILING LUMINAIRE
	EXIT LUMINAIRE - SHADED INDICATES FACE / DIRECTIONAL ARROWS AS SHOWN
	BATTERY PACK EMERGENCY LUMINAIRE
	HATCH INDICATES EMERGENCY LUMINAIRE
	EXTERIOR AREA LIGHT

DISTRIBUTION AND RACEWAY

	MAIN DISTRIBUTION CENTER (MDC)
	SURFACE MTD PANEL BOARD
	RECESSED PANEL BOARD
	TRANSFORMER
	CONDUIT CONCEALED IN FLOOR OR UNDERGROUND
	CONDUIT EXPOSED OR CONCEALED IN WALL OR CEILING
	RACEWAY UP
	RACEWAY DOWN
	CAPPED CONDUIT
	CURRENT TRANSFORMER
	CIRCUIT BREAKER SWITCH
	FUSED SWITCH
	GROUNDING ELECTRODE CONDUCTOR
	METER
	GROUND FAULT PROTECTION

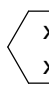
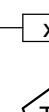
SYSTEMS

	TTB, MDF OR IDF SYSTEM BACKBOARD
	TELECOMMUNICATION OUTLET
	FLOOR MOUNTED TELECOMMUNICATION OUTLET
	TELEVISION OUTLET
	PUSH BUTTON

FIRE ALARM

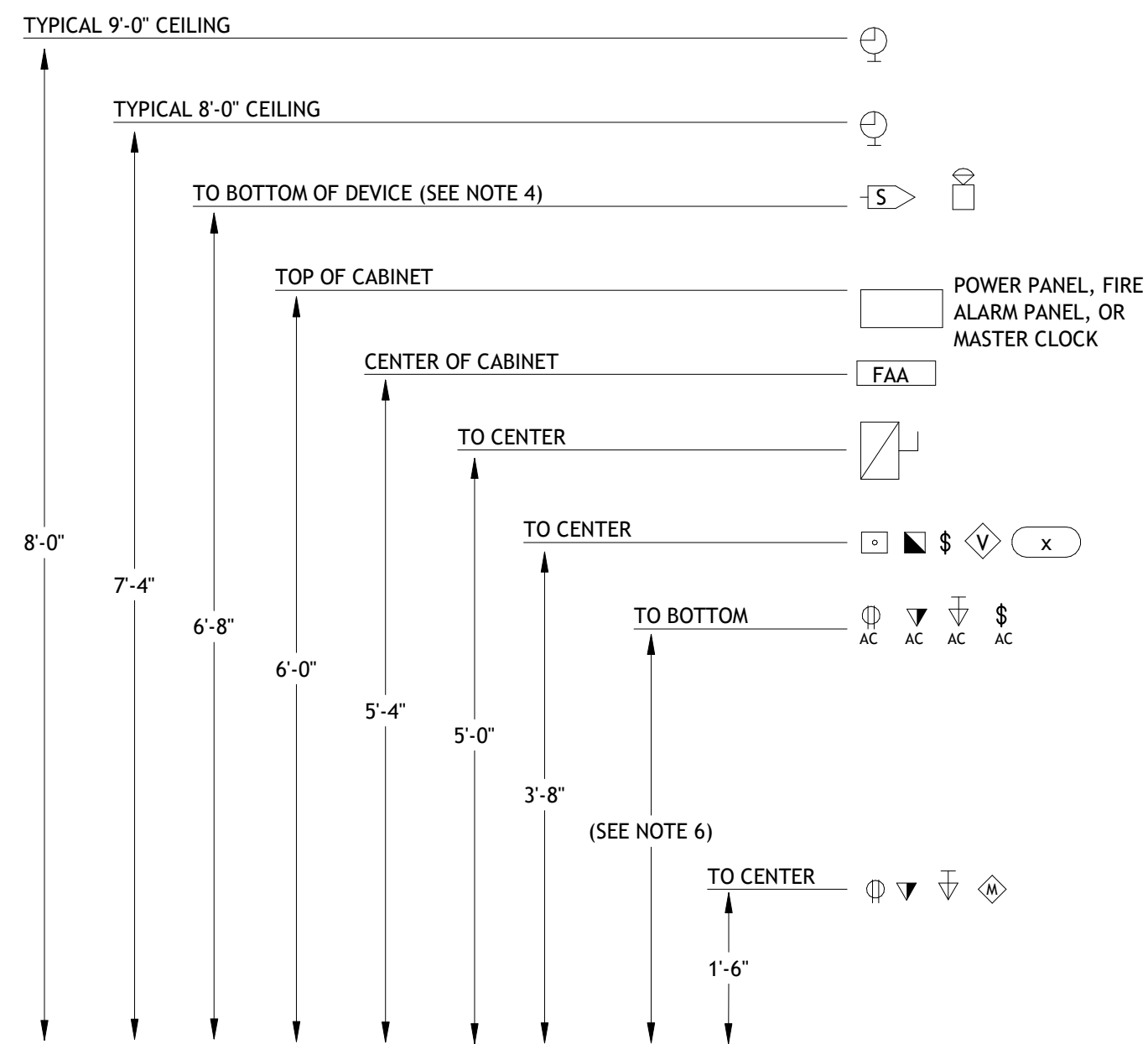
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR/GRAPHIC MAP
	FIRE ALARM REMOTE POWER SUPPLY
	CONTROL MODULE
	MONITOR MODULE
	MANUAL PULLDOWN STATION
	WALL MOUNTED ADA STROBE
	ADA HORN OR SPEAKER WITH STROBE
	MINI HORN / STROBE
	ELECTROMAGNETIC DOOR HOLD OPEN SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	THERMAL DETECTOR
	PHOTOELECTRIC SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	DUCT SMOKE DETECTOR, SUPPLY OR RETURN
	REMOTE INDICATING LIGHT (TEST SWITCH)
	120V, MOTORIZED SMOKE DAMPER
	RESCUE ASSISTANCE PHONE
	FIRE FIGHTERS PHONE JACK

ABBREVIATIONS AND SYMBOLS

A	AMPERE(S)
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERES INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
BFF	BELOW FINISHED FLOOR
BOF	BOTTOM OF FIXTURE
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CT	CURRENT TRANSFORMER
DED	DEDICATED CIRCUIT
DISC	DISCONNECT
DW	DISHWASHER
DWG(S)	DRAWING(S)
(E)	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
(ER)	EXISTING TO BE RELOCATED
EM	EMERGENCY
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
F	FUSE
FLA	FULL LOAD AMPS
FS	SPRINKLER FLOW SWITCH
G	GROUND
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HP	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FACILITY
IG	ISOLATED GROUND
ISC	SHORT CIRCUIT CURRENT
KVA	KILOVOLT AMPERE(S)
KW	KILOWATT(S)
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPERE(S)
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION CENTER
MDF	MAIN DISTRIBUTION FACILITY
ML0	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
MW	MICROWAVE
NC	NORMALLY CLOSED
NL	NIGHT LIGHT - SEE GENERAL NOTES
NO	NORMALLY OPEN
OAE	OR APPROVED EQUAL
OFH	OVERALL FIXTURE HEIGHT
OH	OVERHEAD
P	POLE
PART	PARTIAL CIRCUIT
PH	PHASE
PNL	PANEL
RCPT	RECEPTACLE
REF	REFRIGERATOR
RFD	RECESSED FIXTURE DEPTH
(R)	EXISTING TO BE REMOVED
(RL)	RELOCATED LOCATION
SPD	SURGE PROTECTION DEVICE
TS	SPRINKLER TAMPER SWITCH
UC	UNDER COUNTER/CABINET
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT(S)
W	WATT(S) OR WIRE
WFD	WALL FIXTURE DEPTH
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
	MECHANICAL EQUIPMENT SCHEDULE NOTATION
	DETAIL NOTE
	DELTA REVISION NOTE
	ELECTRICAL WIRE SIZE
	LIGHTING CONTROLS SEQUENCE OF OPERATION

COVERSHEET NOTES

1	THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY FOR A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM.
2	MATERIALS AND INSTALLATION SHALL COMPLY WITH CODES, LAWS AND ORDINANCES OF FEDERAL, STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
3	MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., ETL, CSA OR ANOTHER RECOGNIZED TESTING LAB.
4	ALL WORK REQUIRED FOR THE INSTALLATION AS SHOWN ON DRAWINGS INCLUDING LABOR, EQUIPMENT AND MATERIALS SHALL BE IN STRICT COMPLIANCE WITH THE BUILDING STANDARDS, EXCEPT AS NOTED OTHERWISE.
5	THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE ELECTRICAL WORK.
6	THE CONTRACTOR SHALL PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES AND UTILITY COMPANIES SHOP DRAWINGS, WHICH ARE REQUIRED BY THESE AGENCIES, FOR THEIR APPROVAL.
7	THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER/OWNER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
8	THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH THE BUILDING STANDARDS AND LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.
9	ALL MATERIALS, AND EQUIPMENT SHALL BE ERECTED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS AND RECOMMENDATIONS.
10	ALL CUTTING, DRILLING AND PATCHING OF MASONRY, STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ARCHITECT-DESIGNER OR THEIR REPRESENTATIVE.
11	E. C. IS TO REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ALL FIRE RATED PENETRATION INSTALLATION REQUIREMENTS. E. C. IS TO NOTIFY ENGINEER AND ARCHITECT PRIOR TO INSTALLING ANY FIXTURES WITHIN A FIRE RATED CEILING OR WALL. FIRE RATING MUST BE MAINTAINED FOR THIS TYPE OF INSTALLATION WITH DRYWALL TENTING.
12	SHOP DRAWINGS SHALL INCLUDE MANUFACTURERS NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT. SUBMITTALS SHALL BE IN LOGICAL GROUPS, FOR EXAMPLE, ALL LIGHTING FIXTURES, PARTIAL SUBMITTALS WILL NOT BE REVIEWED.
13	SUBMIT (3) COPIES OF THE FOLLOWING SHOP DRAWINGS FOR REVIEW. A. SWITCH BOARD, PANELBOARDS, AND METERING EQUIPMENT B. DISCONNECTS C. FIRE ALARM SYSTEMS D. LIGHT FIXTURES E. LIGHTING CONTROLS F. TRANSFORMERS G. PROVIDE "AS-BUILT" DRAWINGS AND SUBMIT TO ARCHITECT/DESIGNER.
14	PROVIDE THE FOLLOWING INFORMATION, PER IECC 2018 408.5.2 TO THE PARTY RESPONSIBLE FOR PROJECT COMMISSIONING PLAN (COMMISSIONING AGENT/ MECHANICAL ENGINEER) AND ELECTRICAL ENGINEER. A. CUTSHEETS FOR ALL INSTALLED LIGHTING AND LIGHTING CONTROLS. B. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF INSTALLED LIGHTING, REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING AND RECOMMENDED RELAMPING SHALL BE CLEARLY IDENTIFIED. C. SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS. INSPECTION OF ALL LIGHTING CONTROLS SHALL BE PERFORMED PRIOR TO ELECTRICAL ENGINEERS COMMISSIONING SITE VISIT. RECALIBRATION OF LIGHTING CONTROLS SHALL BE PERFORMED FOLLOWING SITE VISIT AND SHALL BE BASED UPON THE RECOMMENDATIONS OF THE ELECTRICAL ENGINEER.
15	ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW, UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED.
16	CONTRACTOR SHALL OBTAIN AND VERIFY EXISTING UTILITY COMPANY DRAWINGS AND REQUIREMENTS. ELECTRICAL CONTRACTOR IS TO SUBMIT A COMPLETE CONSTRUCTION DRAWING SET TO THE ELECTRICAL UTILITY COMPANY WITHIN 10 DAYS OF AWARD OF CONTRACT. COORDINATE TIMELINE OF THE REVIEW, APPROVAL, ALL ASSOCIATED DOWN TIME, CONSTRUCTION SCHEDULING, DELIVERY, AND INSTALLATION OF THE UTILITY TRANSFORMER. NOTIFY OWNER OF SCHEDULING CONFLICTS.
17	ALL NEW CIRCUIT BREAKERS FOR NEW OR EXISTING PANELBOARDS SHALL MATCH EXISTING BUILDING PANELBOARD MANUFACTURER AND BREAKER TYPE. THE CONTRACTOR SHALL PROVIDE NEW TYPE WRITTEN PANEL DIRECTORIES FOR ALL NEW PANELS AND EXISTING PANELS WHICH HAVE CHANGED. PANELBOARD SHALL BE MARKED WHERE THE SOURCE OF POWER SUPPLY ORIGINATES, AND IF SERIES COMBINATION SYSTEMS ARE UTILIZED AND THEIR LISTED AMPERE RATING.
18	DO NOT SHARE NEUTRAL CONDUCTORS FOR MULTI-WIRE BRANCH CIRCUITS. WHERE SHARED NEUTRAL CONDUCTORS ARE REQUIRED (SUCH AS POWERED FURNITURE SYSTEMS), HANDLE TIES SHALL BE PROVIDED ON THE CIRCUIT BREAKERS, WITH SHARED NEUTRALS, SUCH THAT IT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS. ALL HANDLE TIES ARE REQUIRED TO BE INDICATED ON THE PANELBOARD SHOP DRAWINGS.
19	SHOULD ACTUAL FIELD CONDITIONS REQUIRE INDICATED CIRCUIT DESIGNATIONS TO VARY, INDICATE THE CIRCUIT NUMBER USED ON THE "AS-BUILT" DRAWINGS.
20	ALL SERVICE EQUIPMENT (OTHER THAN IN DWELLING UNITS) SHALL BE LEGIBLY MARKED IN THE FIELD BY THE ELECTRICAL CONTRACTOR WITH THE MAXIMUM AVAILABLE FAULT CURRENT AS INDICATED WITHIN THESE DOCUMENTS. THE FIELD MARKING(S) SHALL COMPLY WITH ELECTRICAL SPECIFICATIONS FOR READABILITY AND DURABILITY.
21	PROVIDE COMPLETE METAL RACEWAY SYSTEMS AND ENCLOSURES FOR ALL WIRING THROUGHOUT THE EXTENT OF THE REQUIRED DISTRIBUTION SYSTEM. A. UTILIZE RIGID POLYVINYL CHLORIDE CONDUIT (PVC) IN THE FOLLOWING LOCATIONS: - UNDERGROUND B. UTILIZE ELECTRICAL METALLIC TUBING (EMT), MINIMUM SIZE OF 3/4", IN THE FOLLOWING LOCATIONS: - SERVICE & FEEDERS - POWER CIRCUIT MONITORING - BRANCH CIRCUITS IN CONCEALED OR EXPOSED LOCATIONS - TELEPHONE/DATA/CATV ROUGH-IN C. UTILIZE METAL-CLAD CABLE (MCC) IN THE FOLLOWING LOCATIONS: - BRANCH CIRCUITS IN CONCEALED LOCATIONS - FINAL CONNECTION TO RECESSED LIGHTING FIXTURES - FINAL CONNECTION TO STEP-DOWN TRANSFORMERS
22	ALL NEW CIRCUITS SHALL HAVE A GROUND WIRE INSTALLED.
23	ALL WIRING NOT INSTALLED IN CONDUIT AND INSTALLED IN THE CEILING SPACE SHALL BE PLENUM RATED.
24	ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SPECIAL OUTLET BOXES THAT MAY BE REQUIRED TO ENCLOSE RECEPTACLES.
25	EACH SWITCH, LIGHT, RECEPTACLE AND OTHER MISCELLANEOUS DEVICE SHALL BE PROVIDED WITH A GALVANIZED OR PRESSED STEEL OUTLET BOX OF THE KNOCKOUT TYPE, OF NOT LESS THAN NO. 14 U.S. GAUGE STEEL. CONDUITS SHALL BE FASTENED WITH LOCKWASHS AND BUSHINGS AND ALL UNUSED KNOCKOUTS MUST BE LEFT SEALED. THERE MUST BE SUFFICIENT ROOM FOR WIRES AND BUSHINGS AND DEEP BOXES SHALL BE INSTALLED WHERE REQUIRED. BOXES SHALL BE SECURELY AND ADEQUATELY SUPPORTED.
26	IN EXPOSED AND SUSPENDED CEILING APPLICATIONS, ROUTE CONDUIT AS CLOSE TO STRUCTURAL SLAB OR DECK AS POSSIBLE, AND SUPPORT CONDUIT AND JUNCTION BOXES DIRECTLY FROM THE STRUCTURAL SLAB, DECK, OR FRAMING PROVIDED FOR THAT PURPOSE. LIGHTING BRANCH CIRCUIT CONDUITS SHALL NOT BE CLIPPED TO THE CEILING SYSTEM HAS BEEN SPECIFICALLY DESIGNED FOR THAT PURPOSE.
27	ALL EXPOSED CONDUIT SHALL BE CONCEALED TO THE GREATEST EXTENT POSSIBLE, AND SHALL BE INSTALLED PARALLEL AND CLOSE TO STRUCTURAL MEMBERS. GENERAL CONTRACTOR SHALL PAINT CONDUIT TO MATCH ADJACENT FINISHES.
28	WHERE FLOOR FITTINGS REQUIRE PENETRATION OF THE FLOOR SLAB, THEY SHALL BE STANDARD DEVICE LISTED BY UL FOR THE PURPOSE AND HAVE A UL FIRE RATING EQUAL TO THE FLOOR RATING. FLOOR SERVICE BOXES SHALL BE MODULAR, ADJUSTABLE FLUSH TYPE, DUAL SERVICE UNITS SUITABLE FOR WIRING METHOD USED. COMPARTMENT BARRIERS SHALL SEPARATE POWER FROM LOW VOLTAGE CABLING. PROVIDE RECTANGULAR SERVICE PLATE WITH SATIN FINISH.
29	ALL RECEPTACLES SHALL BE SPECIFICATION GRADE NEMA 5-20R, UNLESS OTHERWISE NOTED.
30	ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE, QUOTER OPERATION RATED 120/277 VOLT, 20 AMPS, UNLESS OTHERWISE NOTED.
31	ALL FACE PLATE AND DEVICE COLORS SHALL BE APPROVED BY ARCHITECT OR OWNER/LEASEE.
32	PROVIDE LUMINAIRES SHOWN AS SHADED WITH EMERGENCY BATTERY BACKUP POWER. EMERGENCY LUMINAIRES SHALL BE NOTED UNWITTED POWER TO THE SPACE AND OPERATE AUTOMATICALLY UPON LOSS OF NORMAL POWER. ALL SHADED LUMINAIRES WITH LED SOURCES SHALL BE PROVIDED WITH 90 MINUTES OF BATTERY BACKUP POWER. ALL EMERGENCY LUMINAIRES SHALL HAVE INTEGRAL OR REMOTE TEST SWITCHES AS INDICATED IN THE FIXTURE SCHEDULE AND VISIBLE INDICATING LIGHTS. CONNECT THE EMERGENCY BATTERY BALLAST/DRIVER TO THE UN-SWITCHED LEG OF THE LIGHTING CIRCUIT INDICATED.
33	ALL BATTERY BACKUP EMERGENCY LIGHTING AND EXIT LIGHTS SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING, UON.
34	UNLESS OTHERWISE NOTED, LUMINAIRES DESIGNATED AS NIGHT LIGHT (NL) SHALL BE CONNECTED AHEAD OF LOCAL SWITCHING AND REMAIN ON 24 HOURS A DAY.
35	ALL DIMMED LIGHTING CIRCUITS ARE TO RECEIVE DEDICATED NEUTRALS. DO NOT SHARE NEUTRALS ON DIMMED LIGHTING CIRCUITS.
36	PROVIDE OWNER WITH A COMPLETE LISTING OF ALL LAMPS UTILIZED ON THE PROJECT INCLUDING MANUFACTURER AND CATALOG INFORMATION. PROVIDE A SUGGESTED SOURCE, INCLUDING CONTACT NAME AND PHONE NUMBER, FOR REORDERING.
37	THE CONTRACTOR SHALL VERIFY THE CEILING TYPE BEFORE ORDERING LIGHTING.
38	ROUGH-IN FOR MECHANICAL EQUIPMENT SHALL ONLY OCCUR AFTER MECHANICAL EQUIPMENT SUBMITTALS ARE THOROUGHLY REVIEWED FOR CHANGES. NOTIFY ENGINEER OF ANY DISCREPANCIES.
39	FINAL LAYOUT AND QUANTITY OF ALL FIRE ALARM DEVICES SUBJECT TO APPROVAL OF LOCAL AUTHORITY HAVING JURISDICTION.
40	THE POWER AND CONTROL REQUIREMENTS FOR ALL EQUIPMENT CONNECTIONS SHALL BE CONFIRMED WITH APPROVED SHOP DRAWINGS PRIOR TO ELECTRICAL ROUGH-IN. FINAL POWER REQUIREMENTS, DIMENSIONED ROUGH-IN LOCATIONS, LOW VOLTAGE SYSTEM CONNECTIONS, ETC. SHALL BE CONFIRMED AND MODIFIED AS REQUIRED.
41	ALL DEVICES IN OR ABOVE COUNTERS SHALL HAVE LOCATIONS AND MOUNTING HEIGHTS CONFIRMED WITH ARCHITECTURAL ELEVATIONS & OWNER PRIOR TO ROUGH-IN. ANY ADJUSTMENTS TO MOUNTING HEIGHTS REQUIRED BY LACK OF COORDINATION WILL BE AT THE CONTRACTORS EXPENSE.
42	ALL EXISTING ELECTRICAL SERVICES NOT SPECIFICALLY INDICATED TO BE REMOVED OR ALTERED SHALL REMAIN AS THEY PRESENTLY EXIST.
43	G.C. SHALL INCLUDE IN HIS COST THE REMOVAL OF ALL EXISTING ELECTRICAL DEVICES, CONDUITS, FIXTURES AND EQUIPMENT. TURN EQUIPMENT OVER TO OWNER AS INDICATED IN RECYCLE/DISCARD ALL EQUIPMENT AS REQUIRED. E.C. SHALL BE RESPONSIBLE FOR DISCONNECTING PRIMARY SERVICE AND TEMPORARY POWER.
44	CONTRACTOR TO CONDUCT FUNCTIONAL TESTING OF LIGHTING CONTROLS EQUIPMENT AS REQUIRED BY IECC 2018, SECTION 408.3. AFTER THIS TESTING IS OBSERVED AND COMPLETED, THE REGISTERED DESIGN PROFESSIONAL OR COMMISSIONING AUTHORITY SHALL PROVIDE DOCUMENTATION TO THE AHJ THAT CERTIFIES THAT THE INSTALLATION MEETS THE DOCUMENTED PERFORMANCE CRITERIA OF SECTION 405.
45	IDENTIFY EACH RECEPTACLE WITH PANELBOARD IDENTIFICATION AND CIRCUIT NUMBER. USE HOT, STAMPED, OR ENGRAVED MACHINE PRINTING WITH BLACK-FILLED LETTERING ON FACE OF PLATE, AND DURABLE WIRE MARKERS OR TAGS INSIDE OUTLET BOXES.
46	UNLESS OTHERWISE NOTED, ALL GFCI RECEPTACLES SHALL HAVE TEST/RESET SWITCHES INTEGRAL TO RECEPTACLE DEVICE.

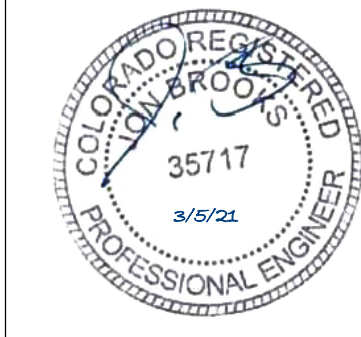


NOTES:

1. WHERE MULTIPLE LINE VOLTAGE DEVICES ARE SHOWN ADJACENT TO EACH OTHER, THEY ARE ALL TO SHARE THE SAME JUNCTION BOX, UP TO FOUR GANGS.
2. WHERE MORE THAN FOUR DEVICES ARE SHOWN ADJACENT TO EACH OTHER, DEVICES ARE TO STACK VERTICALLY ABOVE ONE ANOTHER IN TWO ROWS IN AS SMALL OF GANG BOXES AS POSSIBLE. I.E. SIX DEVICES WILL USE TWO THREE GANG BOXES, FIVE DEVICES WILL USE ONE THREE GANG AND ONE TWO GANG BOX. WHEN DIMMERS ARE GANGED TOGETHER, REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR DE-RATING.
3. SEPARATELY GANGED DEVICES ARE NOT ALLOWED TO BE INSTALLED ADJACENT TO ONE ANOTHER HORIZONTALLY WITHIN THE SAME STUD BAY.
4. AUDIBLE/VISUAL FIRE ALARM DEVICES SHOWN ARE TO BE MOUNTED AT 90° OR 6° BELOW CEILING, WHICHEVER IS LOWER. ADA STROBES TO BE MOUNTED AT 80° AFF OR 6° BELOW CEILING, WHICHEVER IS LOWER.
5. MAXIMUM ELEVATION FOR ALL LOAD CENTER CIRCUIT BREAKERS SHALL NOT EXCEED 48" AFF, WITHIN DWELLING UNITS.
6. THE E.C. SHALL REFER TO ARCHITECTURAL ELEVATIONS TO COORDINATE ALL COUNTER HEIGHTS. ALL "AC" DEVICES SHALL HAVE BOTTOM OF BACK-BOX MOUNTED 4" ABOVE THE BACK/SIDE SPLASH.

1 | DEVICE MOUNTING HEIGHT

E000	NTS
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NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex tasks. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the owner. The owner is to be held responsible for any misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall release the architect from any and all legal consequences arising out of such changes.

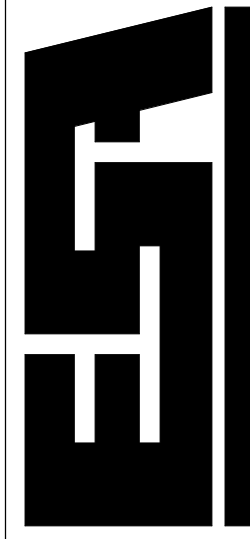
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REVISIONS

[illegible]

**STEAMBOAT GONDOLA
RELOCATION**
STEAMBOAT SPRINGS, CO



ERIC SMITH ASSOCIATES, P.C.
1919 SEVENTH STREET
BOULDER, COLORADO, 80302

Job Number:	20034
Date:	03/05/1
Drawn By:	BDJ, MAE
Checked By:	TPK

Project Phase

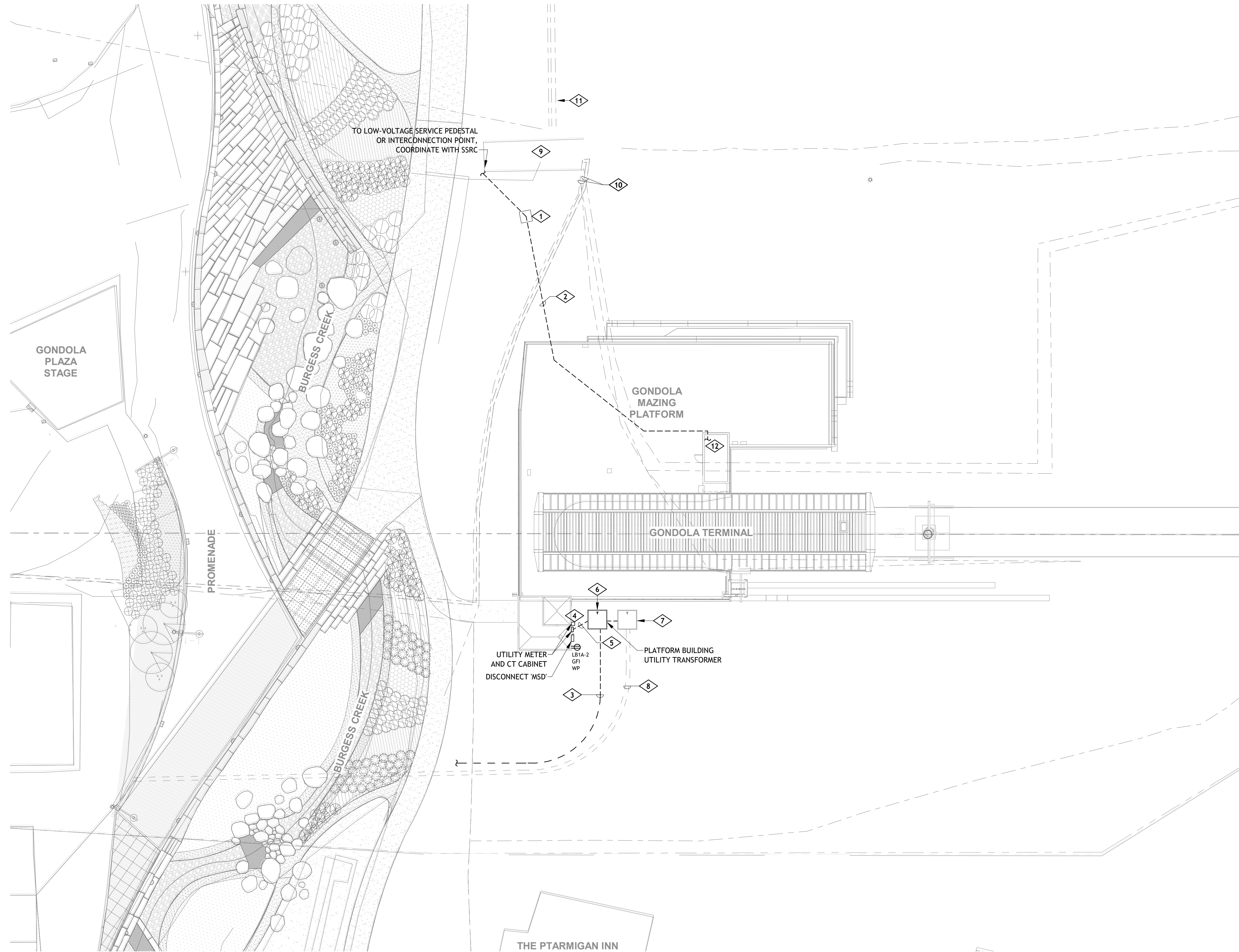
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Sheet Title

ELECTRICAL COVER SHEET

Sheet Number

E000



2	FIRST LEVEL-ELECTRICAL SITE PLAN
E010	1" = 20'-0"

SITE GENERAL NOTES

- A. ALL EXTERIOR LIGHTING CIRCUITS SHALL UTILIZE A MINIMUM WIRE SIZE OF #8AWG COPPER, UON.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	PROVIDE 48"x48"x24"D IN-GRADE TELECOMMUNICATIONS UTILITY ENTRANCE ENCLOSURE FOR FIBER OPTIC AND COMMUNICATIONS SERVICE CABLEING TO NEW GONDOLA PLATFORM BUILDING AS SHOWN. ASSEMBLY AND ALL COMPONENTS SHALL BE UL LISTED AND RATED FOR OUTDOOR LOCATIONS. PROVIDE HUBBELL QUAZITE PG SERIES, ANSI/SCTE-77 TIER 22 RATING WITH TIER 22 COVER AND COMMUNICATIONS LABEL ON COVER LID. COORDINATE EXACT LOCATION OF ENCLOSURE WITH EXISTING UNDERGROUND UTILITIES, EXISTING UNDERGROUND PIPING, AND OWNER PRIOR TO COMMENCING WORK.
2	PROVIDE (2) 3" CONDUITS FOR FIBER OPTIC AND COMMUNICATIONS SERVICE CABLEING TO OPERATORS CABIN. REFER TO CIVIL SITE UTILITY DRAWINGS FOR EXACT ROUTING AND SIZING REQUIREMENTS. REFER TO LOW-VOLTAGE RISER DIAGRAM, SHEET E660 , FOR ADDITIONAL INFORMATION.
3	APPROXIMATE ROUTING OF NEW UNDERGROUND UTILITY PRIMARY FROM NEW UTILITY TRANSFORMER TO UTILITY INTERCONNECTION POINT WITHIN EXISTING UTILITY EASEMENT. COORDINATE EXACT ROUTING AND REQUIREMENTS WITH ELECTRICAL UTILITY (YAMPA VALLEY ELECTRIC ASSOCIATION) AND GENERAL CONTRACTOR PRIOR TO COMMENCING WORK. COORDINATE FINAL ROUTING WITH ALL OTHER NEW/EXISTING UNDERGROUND UTILITIES INCLUDING FUTURE BASE BUILDING ELECTRICAL UTILITY PRIMARY/SECONDARY ROUTING PRIOR TO EXCAVATING.
4	THE EC SHALL FURNISH AND INSTALL THE REQUIRED METER HOUSING AS COORDINATED WITH YVEA. UTILITY SHALL FURNISH, INSTALL, AND CONNECT THE METER IN THAT HOUSING. ALL COSTS FOR WORK DESCRIBED ABOVE TO BE PERFORMED BY UTILITY AS PART OF THE PROJECT BUDGET AND SHALL BE PAID BY THE CONTRACTOR. TRANSFORMER CONCRETE PAD BY GC. COORDINATE PAD AND CLEARANCE REQUIREMENTS WITH UTILITY ELECTRICAL SERVICE INSTALLATION MANUAL.
5	APPROXIMATE ROUTING OF NEW UNDERGROUND ELECTRICAL SECONDARY FEEDER FROM UTILITY TRANSFORMER TO NEW BUILDING ELECTRICAL SERVICE CT CABINET AND MAIN DISCONNECT LOCATED ON BUILDING EXTERIOR. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MORE INFORMATION.
6	ANTICIPATED LOCATION OF NEW 480/277V, 3-PHASE PAD MOUNTED UTILITY TRANSFORMER. IT IS ANTICIPATED THAT UTILITY (YVEA - YAMPA VALLEY ELECTRIC ASSOCIATION) WILL PROVIDE BORING/TRENCHING FOR ALL PRIMARY CONDUIT BETWEEN UTILITY CONNECTION AT THE TRANSFORMER. UTILITY SHALL PROVIDE ALL PRIMARY CONDUIT AND WIRING TO THE TRANSFORMER, INCLUDING TRENCHING BETWEEN THE NEAREST UTILITY CONNECTION POINT AND THE PRIMARY CONNECTION AT THE TRANSFORMER. THE EC SHALL COORDINATE ROUTING AND TERMINATION IN THE FIELD AS TO ACHIEVE BUILDING POWER ACTIVATION. THE EC SHALL PERFORM ALL TRENCHING AND BACKFILLING ON THE SECONDARY SIDE OF THE TRANSFORMER. UTILITY SHALL MAKE ALL CONNECTIONS OF PRIMARY AND SECONDARY CABLEING AT THE TRANSFORMER LANDINGS.
7	APPROXIMATE LOCATION OF BASE BUILDING UTILITY TRANSFORMER TO BE LOCATED ADJACENT TO NEW PLATFORM BUILDING UTILITY TRANSFORMER (SHOWN FOR REFERENCE ONLY). REFER TO SEPARATE BASE BUILDING DESIGN DOCUMENTS AND PERMIT PACKAGE FOR ADDITIONAL INFORMATION AS NECESSARY.
8	APPROXIMATE ROUTING OF BASE BUILDING UTILITY PRIMARY AND SECONDARY UNDERGROUND DUCT BANK (SHOWN FOR REFERENCE ONLY). REFER TO SEPARATE BASE BUILDING DESIGN DOCUMENTS AND PERMIT PACKAGE FOR ADDITIONAL INFORMATION AS NECESSARY.
9	EXISTING SKI SCHOOL BLOCKHOUSE 1 ANTICIPATED TO BE DEMOLISHED TO ACCOMMODATE NEW GONDOLA PLATFORM CONSTRUCTION. EXISTING SNOW MAKING EQUIPMENT ANTICIPATED TO REMAIN.
10	EXISTING UNDERGROUND ELECTRICAL AND TELECOMMUNICATIONS CONDUITS AND CABLEING FROM BLOCKHOUSE TO DEMOLISHED SKI CARPET LIFT EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY BACK TO SOURCE AS REQUIRED TO ACCOMMODATE NEW PLATFORM BUILDING CONSTRUCTION.
11	EXISTING UNDERGROUND POWER AND TELECOMMUNICATIONS SERVICES (CONDUIT AND CABLEING) SUPPORTING BLOCKHOUSE FROM CHRISTIE PEAK CHAIR LIFT ANTICIPATED TO REMAIN.
12	PROVIDE LB FITTINGS (WADSWORTH ELECTRIC SMARTLB SERIES, OR APPROVED EQUIVALENT) SIZED FOR INTENDED COMMUNICATIONS CABLEING AND CABLEING BENDING RADII AT EXTERIOR WALL AS REQUIRED FOR TRANSITION AT CONDUIT PENETRATION INTO OPERATOR CABIN BUILDING. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.



NOTICE: DUTY OF COOPERATION

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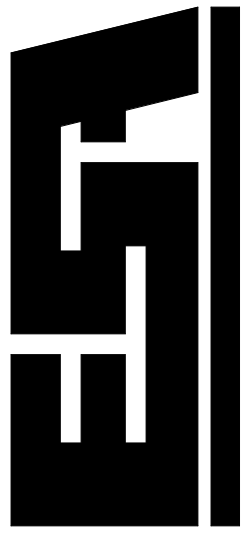
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Eric Smith Associates, P.C.

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**STEAMBOAT GONDOLA
RELOCATION**
STEAMBOAT SPRINGS, CO



ERIC SMITH ASSOCIATES, P.C.
1919 SEVENTH STREET
BOULDER, COLORADO, 80302
(303) 442-5458, (303) 442-4745 FAX

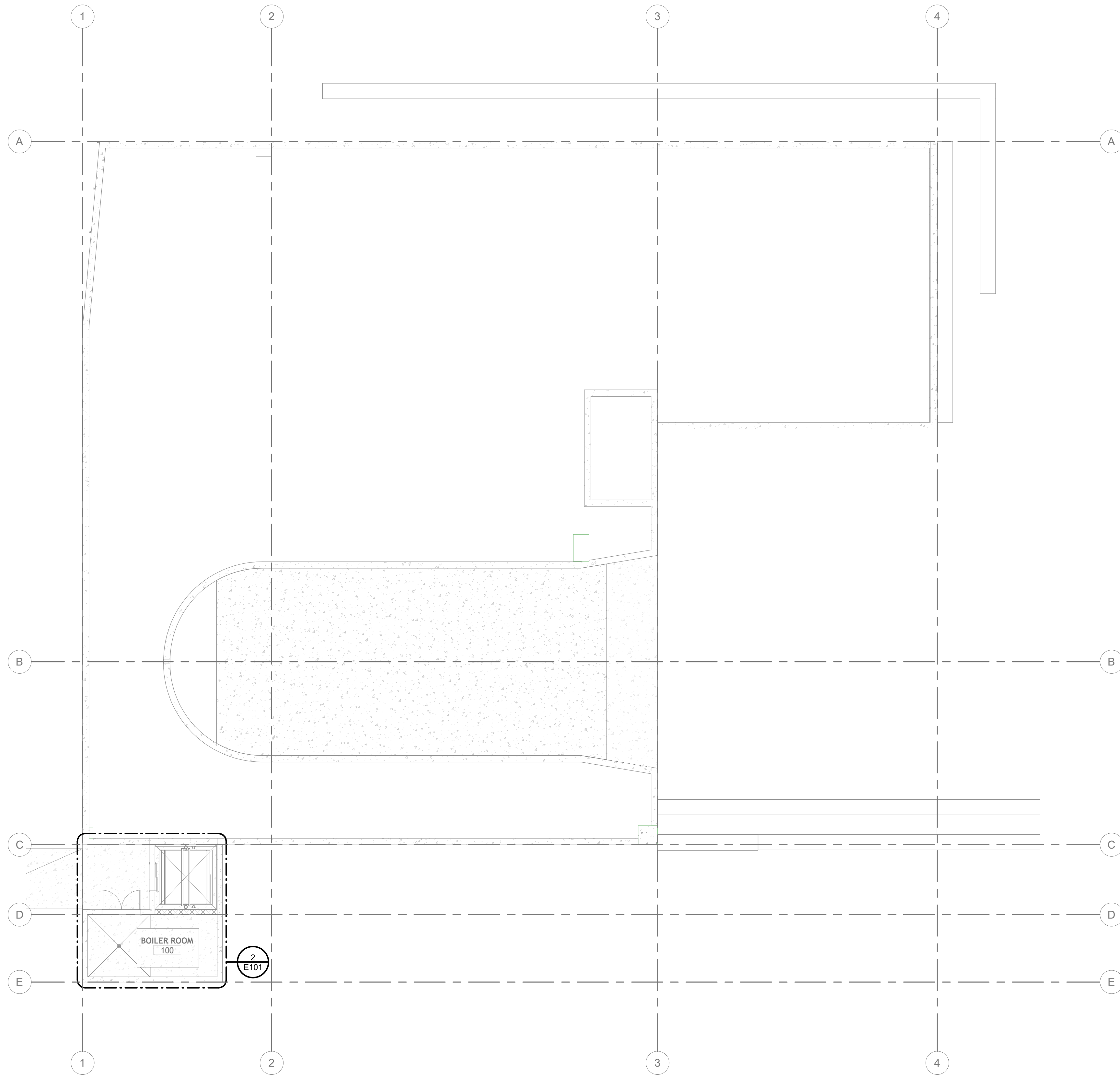
Job Number:	20034
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Checked By:	TPK

Project Phase
PERMIT SET

Sheet Title
ELECTRICAL SITE PLAN

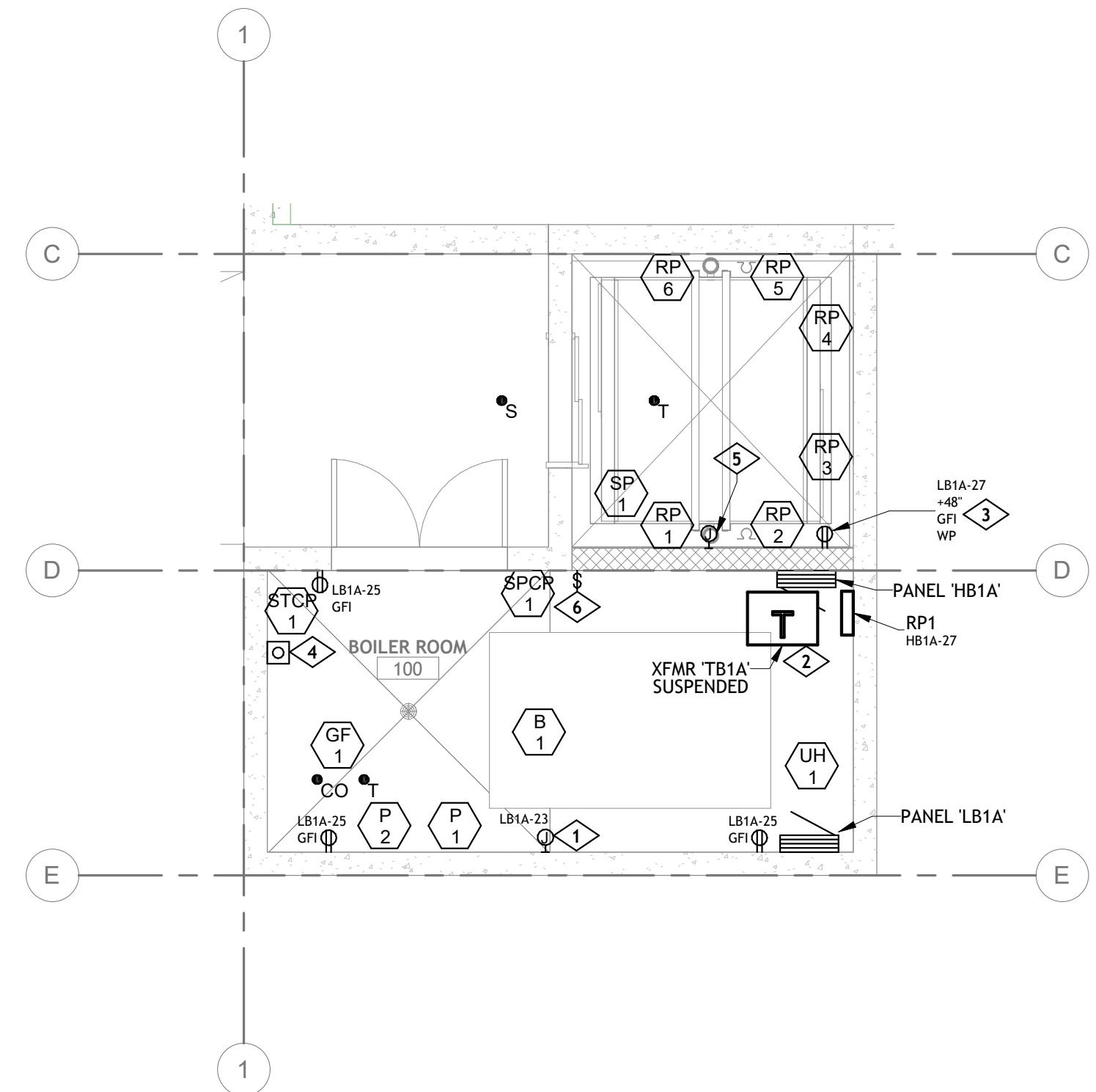
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E010

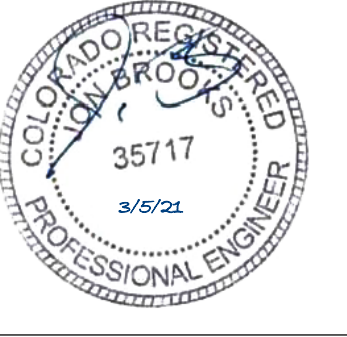


1	LOWER LEVEL - ELECTRICAL POWER PLAN
E101	1/8" = 1'-0"

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	PROVIDE 120V, 20-AMP CIRCUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT CONTRACTOR EQUIPMENT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN. RUN 2#12, 1#12G, 3/4"C.
2	EC SHALL SUSPEND TRANSFORMER FROM STRUCTURE. REFER TO DETAIL #1/E600 FOR MORE INFORMATION.
3	EC SHALL COORDINATE ELEVATOR SHAFT/PIT RECEPTACLE LOCATION WITH APPROVED MANUFACTURER'S ELEVATOR EQUIPMENT SHOP DRAWINGS PRIOR TO ROUGH-IN.
4	PROVIDE EPO SWITCH FOR SHUTDOWN OF MECHANICAL BOILER(S) AS REQUIRED. COORDINATE EXACT LOCATION IN-FIELD WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5	PROVIDE 24V THERMOSTAT WITH REMOTE SENSOR BY TCC WIRED TO POWER RELAY TERMINAL AT RADIANT HEATERS. MOUNT SENSOR IN SHAFT AT 54" AFF. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6	EC SHALL PROVIDE TOGGLE SWITCH WITH INSTANTANEOUS LIGHT FOR TRENCH DRAIN HEAT TRACE CONTROL. COORDINATE AND CONFIRM EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. REFER TO FIRST LEVEL POWER PLAN FOR ADDITIONAL HEAT TRACE INFORMATION.



2	ENLARGED ELECTRICAL POWER PLAN - BOILER ROOM
E101	1/4" = 1'-0"



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STEAMBOAT GONDOLA RELOCATION

STEAMBOAT SPRINGS, CO



ERIC SMITH ASSOCIATES, P.C.
1919 SEVENTH STREET
BOULDER, COLORADO, 80302
(303) 442-5458, (303) 442-4745 FAX

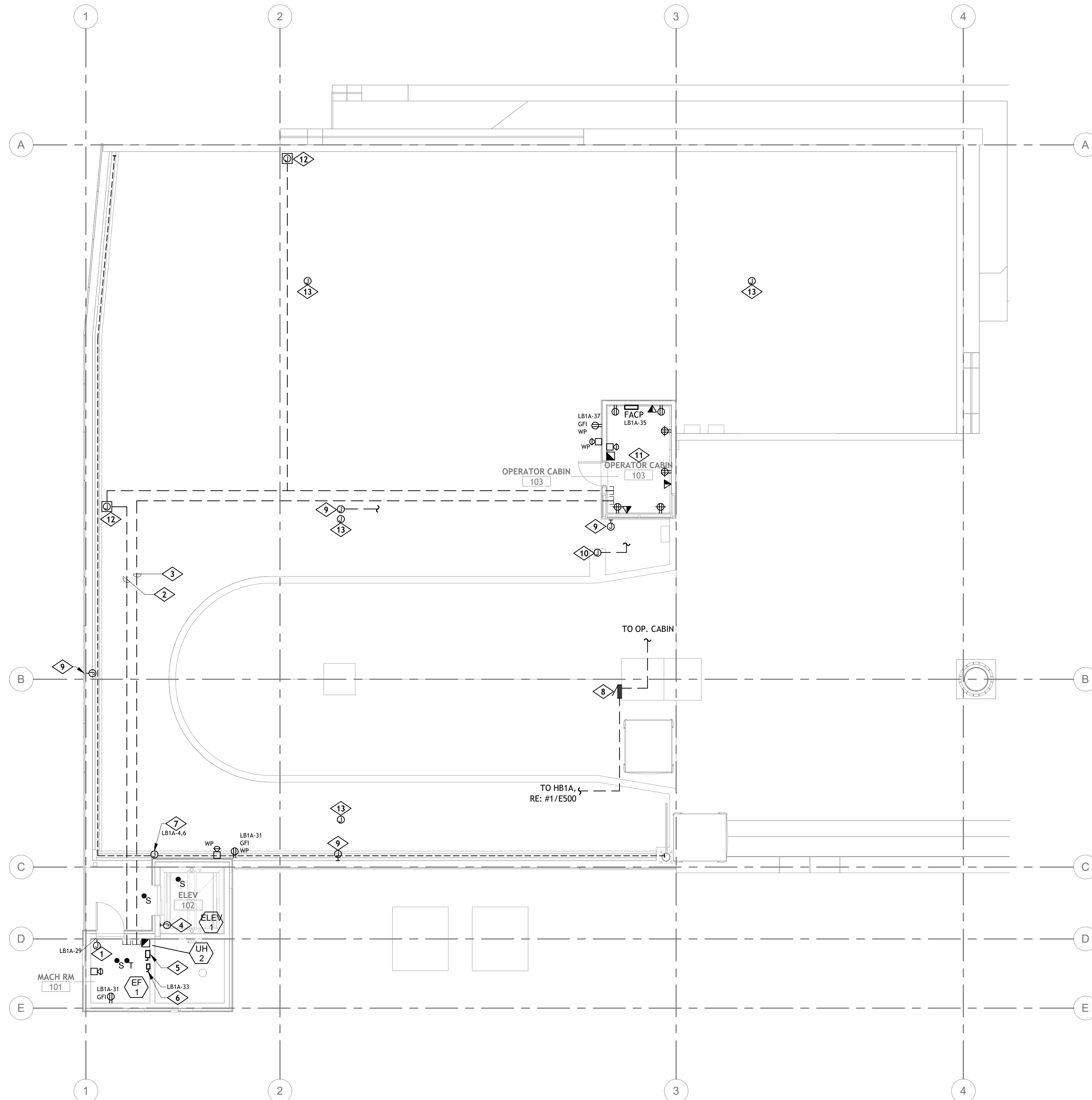
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Sheet Title
ELECTRICAL LOWER LEVEL
POWER PLAN

Sheet Number

E101



1 | FIRST LEVEL - ELECTRICAL POWER PLAN

E111	$1/8'' = 1'-0''$
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KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	PROVIDE 120V, 20-AMP CONNECTION FOR LINE VOLTAGE THERMOSTAT AND MOTORIZED DAMPER FOR EF-1. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION, INCLUDING EXACT CONNECTION REQUIREMENTS AND LOCATION. RUN 2#12, 1#12G, 3/4"C.
2	PROVIDE (2) 2"C ROUTED UP THROUGH CRAWL SPACE AS NECESSARY AND THEN ROUTED BELOW GRADE/FINISHED PAVERS BETWEEN PANEL LB1A IN LOWER LEVEL BOILER ROOM AND IT EQUIPMENT IN UPPER LEVEL OPERATOR CABIN FOR ENTRY GATE AND TICKET SCANNER POWER/DATA CABLING PATHWAY. CONDUIT SHALL BE ROUTED TO JUNCTION BOXES AS SHOWN FOR FINAL TERMINATIONS TO ENTRY GATE AND TICKET SCANNER EQUIPMENT. COORDINATE EXACT LOCATIONS AND ROUTING WITH OWNER PRIOR TO COMMENCING WORK.
3	PROVIDE (1) 2"C WITH PULL-STRING FOR DATA CABLING AND (2) SPARE 2"C WITH PULL-STRING FOR FUTURE POWER/DATA, ROUTED BELOW GRADE/FINISHED PAVERS FROM BOILER ROOM ON LOWER LEVEL TO OPERATOR CABIN FOR POWER/DATA CABLING PATHWAY(S). REFER TO LOW VOLTAGE RISER DIAGRAM, #2/E600, FOR MORE INFORMATION.
4	PROVIDE 3/4"C CONDUIT ROUTED FROM TELECOMMUNICATIONS HEAD END EQUIPMENT LOCATION TO ELEVATOR CONTROLLER FOR LOW-VOLTAGE TELEPHONE CABLING RACEWAY. CONTRACTOR SHALL PROVIDE (1) CAT6 CABLE FOR CONNECTION TO ELEVATOR CONTROL PANEL. EC SHALL COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH APPROVED ELEVATOR MANUFACTURER SHOP DRAWINGS PRIOR TO INSTALLATION.
5	PROVIDE ELEVATOR FUSED DISCONNECT EQUIPMENT IN ELEVATOR MACHINE ROOM. PROVIDE EATON ELEVATOR CONTROL SWITCH #ES SERIES WITH FIRE SAFETY INTERFACE RELAY, VOLTAGE MONITORING RELAY, AND AUXILIARY CONTACTS AS REQUIRED FOR FIRE ALARM SHUNT TRIP OPERATION OF ELEVATOR POWER. EC SHALL COORDINATE EXACT DISCONNECT LOCATION, SIZING AND FIRE ALARM RELAY SPECIFICATION WITH THE APPROVED ELEVATOR SUBMITTALS AND FIRE ALARM SYSTEM SUBMITTALS PRIOR TO ORDERING.
6	PROVIDE LOCAL 120V, 20-AMP CIRCUIT FOR POWER CONNECTION TO ELEVATOR CAB. EC SHALL COORDINATE EXACT LOCATION AND REQUIREMENTS WITH APPROVED MANUFACTURER'S SHOP DRAWINGS PRIOR TO GUE-IN.
7	EC SHALL PROVIDE 208V, SINGLE-PHASE, 20A/2P GFCI PROTECTED ELECTRICAL CONNECTION (2#12, 1#12G, 3/4"C) TO HEAT TRACE SYSTEM CONTROL PANEL LOCATED IN BOILER ROOM AND HEAT TRACE CABLING LOCATED WITHIN TRENCH DRAIN AS INDICATED WITH DASHED LINE. EC SHALL COORDINATE EXACT LOCATIONS AND INSTALLATION REQUIREMENTS OF HEAT TRACE CABLE, CONTROL PANEL, THERMOSTATS, SENSORS, POWER CONNECTION KITS, INDICATOR LIGHTS, AND OTHER ACCESSORIES WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK. REFER TO ENLARGED BOILER ROOM PLAN FOR CONTROLLER LOCATION. BASIS OF DESIGN SHALL BE RAYCHEM GM-2X CABLE, PROVIDED BY MECHANICAL CONTRACTOR. EC SHALL PROVIDE ANY ADDITIONAL ELECTRICAL BRANCH CIRCUIT POWER WIRING, CONDUIT, AND JUNCTION BOXES REQUIRED FOR A COMPLETE SYSTEM. EC SHALL COORDINATE EXACT ELECTRICAL CONNECTIONS AND REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND CONTROL SYSTEM REQUIREMENTS.
8	APPROXIMATE LOCATION OF NEW TERMINAL ELECTRICAL CABINET EQUIPMENT DMEC. PROVIDED BY DOPPELMAYR USA. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
9	NEW POC (CONTROL STATION). EC SHALL PROVIDE NEW 3/4"C FOR POWER AND 3/4"C FOR COMMUNICATIONS ROUTED UNDERGROUND FROM JUNCTION BOX TO OPERATORS CABIN FOR NEW POWER AND CONTROL WIRING. CONDUIT FOR POWER WIRING SHALL BE EXTENDED FROM OPERATORS CABIN TO NEW TERMINAL ELECTRICAL CABINET DMEC AS REQUIRED FOR FINAL CIRCUIT TERMINATIONS. EC SHALL COORDINATE EXACT CONDUIT INSTALLATION REQUIREMENTS, ROUTING, AND STUB-UP LOCATIONS WITH DOPPELMAYR PRIOR TO COMMENCING WORK.
10	NEW GATE EXACT CONTROL STATION. EC SHALL PROVIDE NEW 3/4"C FOR POWER AND 3/4"C FOR COMMUNICATIONS ROUTED UNDERGROUND FROM JUNCTION BOX TO OPERATORS CABIN FOR NEW POWER AND CONTROL WIRING. CONDUIT FOR POWER WIRING SHALL BE EXTENDED FROM OPERATORS CABIN TO NEW TERMINAL ELECTRICAL CABINET DMEC AS REQUIRED FOR FINAL CIRCUIT TERMINATIONS. EC SHALL COORDINATE EXACT CONDUIT INSTALLATION REQUIREMENTS, ROUTING, AND STUB-UP LOCATIONS WITH DOPPELMAYR PRIOR TO COMMENCING WORK.
11	ALL POWER DEVICES INCLUDING RECEPTACLES, HEATING, RETURN TERMINAL EQUIPMENT/CONTROLS, AND SMOKE DETECTORS WITHIN OPERATORS CABIN SHALL BE CIRCUITED TO THE TERMINAL ELECTRICAL CABINET DMEC, PROVIDED BY OTHERS. EC SHALL COORDINATE INSTALLATION REQUIREMENTS OF ALL ASSOCIATED CONDUIT AND WIRING FOR OPERATOR CABIN DEVICES WITH DOPPELMAYR PRIOR TO COMMENCING WORK.
12	PROVIDE 13X24X18"D HUBBELL QUAZITE PG SERIES IN-GRADE PULL-BOX WITH (2) PVC OUTDOOR RATED, WATER-TIGHT JUNCTION BOXES MOUNTED INSIDE PULL-BOX ENCLOSURE, (1) FOR POWER AND (1) FOR DATA CONNECTIONS TO NEW ENTRY GATE AND TICKET SCANNER EQUIPMENT. COORDINATE EXACT LOCATIONS WITH OWNER PRIOR TO ROUGH-IN. COORDINATE INSTALLATION WITHIN FINISHED PAVERS WITH GENERAL CONTRACTOR.
13	PROVIDE 3/4"C FROM SNOW/ICE DETECTOR TO BOILER ROOM SNOWMELT CONTROL PANEL FOR SENSOR CONTROL WIRING AS NECESSARY. COORDINATE EXACT ZONES/QUANTITIES, LOCATIONS AND INSTALLATION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.



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**STEAMBOAT GONDOLA
RELOCATION**
STEAMBOAT SPRINGS, CO



ERIC SMITH ASSOCIATES, P.C.
1919 SEVENTH STREET
BOULDER, COLORADO, 80302
(303) 442-5458, (303) 442-4745 FAX

Job Number:	20034
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Drawn By:	BDJ, MAE
Checked By:	TPK

Project Phase
PERMIT SET

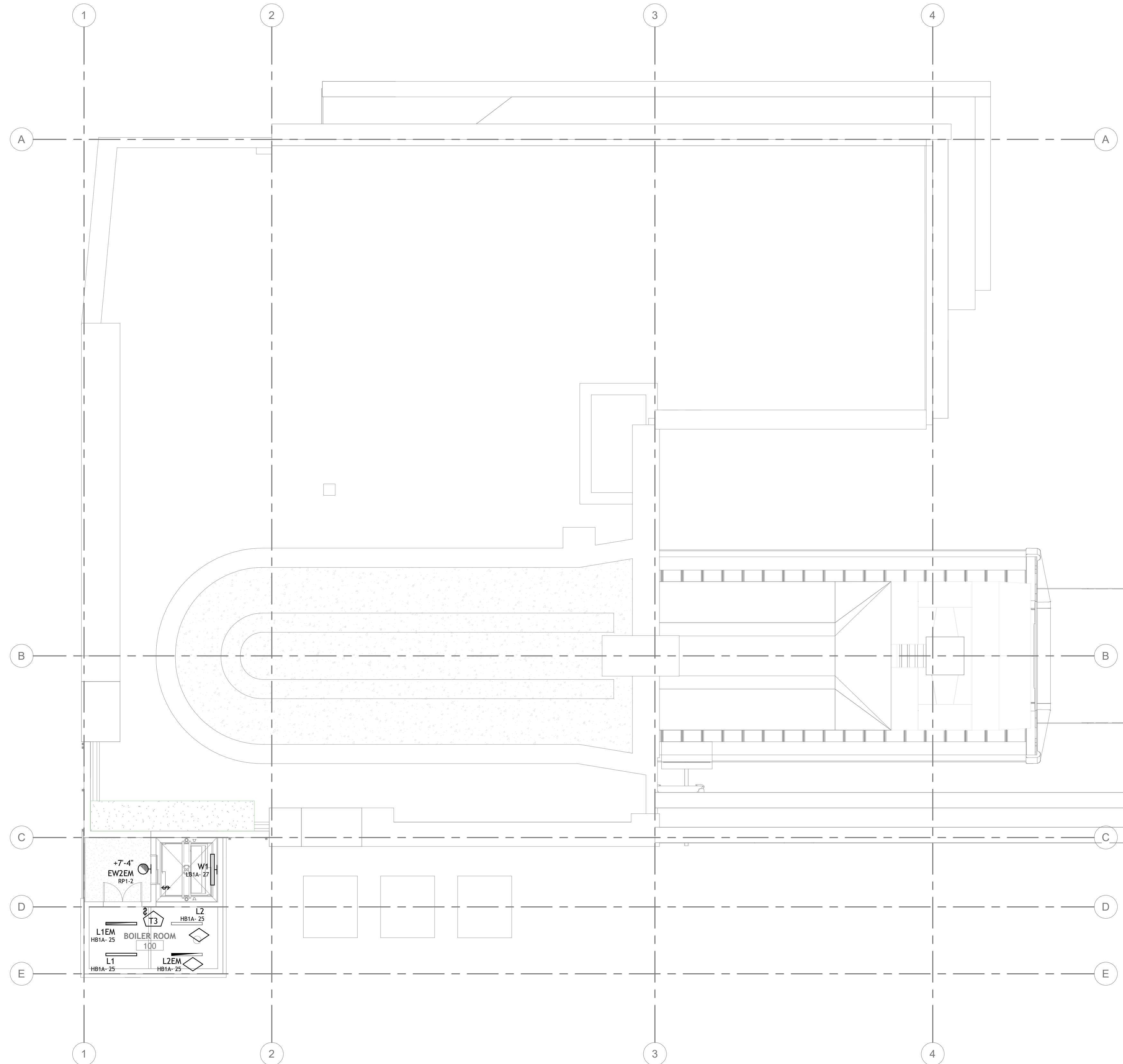
Sheet Title
ELECTRICAL FIRST LEVEL POWER PLAN

Sheet Number

E111

AE DESIGN 
Integrated Lighting and Electrical Solutions
1900 Wazee Street #205 | Denver, CO 80202 | 303.296.3034
aedesign-inc.com Project #: 5155.00

PERMIT SUBMITTAL 03/05/21



LIGHTING GENERAL NOTES

- | | |
|----|---|
| A. | ALL FIXTURES WITH HATCHING AND/OR DESIGNATED AS 'EM' SHALL BE PROVIDED WITH INTEGRAL BATTERY BACKUP. BATTERY SHALL ENGAGE ONLY AFTER COMPLETE LOSS OF POWER TO THE CIRCUIT. |
| B. | CIRCUIT ALL EMERGENCY LIGHTING UNITS AND EXIT SIGNS TO NEAREST LINE VOLTAGE CIRCUIT, AHEAD OF ALL SWITCH LEGS. |

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
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**STEAMBOAT GONDOLA
RELOCATION**
STEAMBOAT SPRINGS, CO



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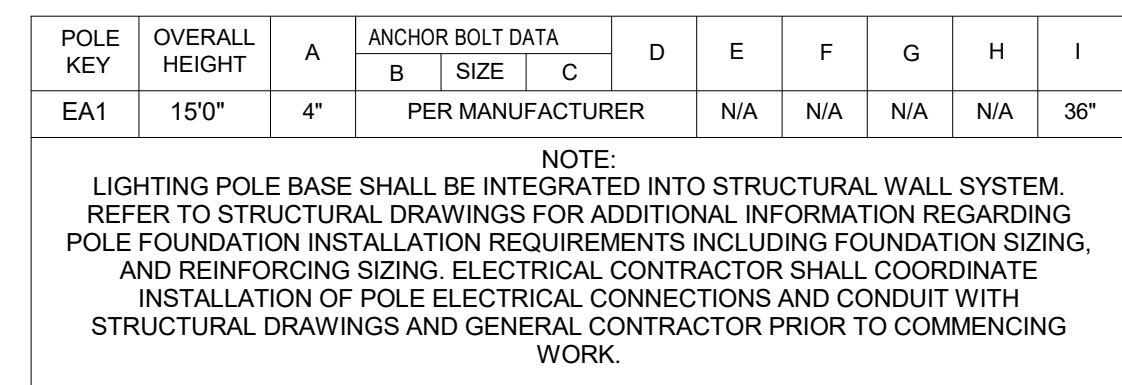
ELECTRICAL LOWER LEVEL
LIGHTING PLAN

Sheet Number

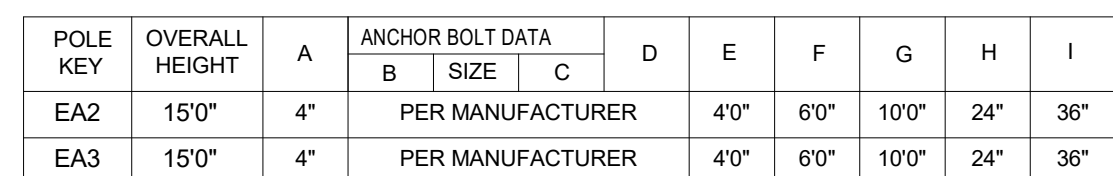
E201

LIGHTING GENERAL NOTES	
A.	ALL FIXTURES WITH HATCHING AND/OR DESIGNATED AS 'EM' SHALL BE PROVIDED WITH INTEGRAL BATTERY BACKUP. BATTERY SHALL ENGAGE ONLY AFTER COMPLETE LOSS OF POWER TO THE CIRCUIT.
B.	CIRCUIT ALL EMERGENCY LIGHTING UNITS AND EXIT SIGNS TO NEAREST LINE VOLTAGE CIRCUIT, AHEAD OF ALL SWITCH LEGS.

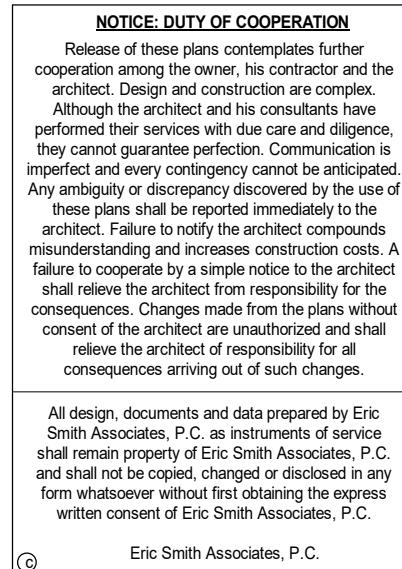
KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	LIGHT POLE TO BE MOUNTED IN CONCRETE RETAINING WALL. COORDINATE MOUNTING WITH STRUCTURAL DRAWINGS.
2	TYPE 'ED1' SURFACE MOUNTED DOWNLIGHT FIXTURE SHALL BE MOUNTED TO UNDERSIDE OF TERMINAL CANOPY STRUCTURE AND DIRECTED DOWNWARD.
3	EC SHALL COORDINATE INSTALLATION REQUIREMENTS OF ALL ASSOCIATED CONDUIT AND WIRING FOR OPERATOR CABIN LIGHTING FIXTURES AND LIGHTING CONTROL DEVICES WITH DOPPELMAYR PRIOR TO COMMENCING WORK.



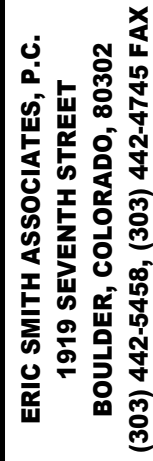
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E211	N.T.S.
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TEAMBOAT GONDO RELOCATION STEAMBOAT SPRINGS, CO



Project Phase
PERMIT SET

Sheet Number

E211

GENERAL GROUNDING NOTES	
1.	ALL CABLES TO BE TERMINATED ONTO BUS BAR WITH TWO HOLE COMPRESSION LUGS AND ATTACHED TO BUS BAR WITH TAB COMPRESSION BELLEVILLE WASHERS AND TORK BOLT ASSEMBLY.
2.	ALL GROUND CONNECTORS SHALL BE STRANDED.
3.	ALL BUS BARS SHALL BE ATTACHED TO SURFACE WITH NON-CONDUCTIVE STAND-OFFS.
4.	GROUND BUS BAR AND GROUNDING SYSTEM SHALL BE UL LISTED AND COMPLY WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.

1.	METAL UNDERGROUND WATER PIPE - MAKE CONNECTION TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10' OR AND ELECTRICALLY CONTINUOUS TO THE POINTS OF CONNECTION TO THE GROUNDING ELECTRODE CONDUCTOR AND BONDING CONDUCTORS. CONNECTION POINT TO BE AT A MAXIMUM OF 5' OF THE POINT OF ENTRANCE ON THE INTERIOR OF THE BUILDING.
2.	BUILDING STEEL - THE METAL FRAME OF THE BUILDING OR STRUCTURE, WHERE ANY OF THE FOLLOWING METHODS ARE USED TO MAKE AN EARTH CONNECTION: A. AT LEAST ONE STRUCTURAL METAL MEMBER THAT IS IN DIRECT CONTACT WITH THE EARTH FOR 10' OR MORE, WITH OR WITHOUT CONCRETE ENCASEMENT. B. HOLD-DOWN BOLTS SECURING THE STRUCTURAL STEEL COLUMN THAT ARE CONNECTED TO A CONCRETE ENCASED ELECTRODE THAT COMPLIES WITH 250.52(A)(3) AND IS LOCATED IN THE SUPPORT FOOTING OR FOUNDATION. THE HOLD-DOWN BOLTS SHALL BE CONNECTED TO THE CONCRETE-ENCASED ELECTRODE BY WELDING, EXOTHERMIC WELDING, THE USUAL STEEL TIE WIRES, OR OTHER APPROVED MEANS.
3.	UFER GROUND (CONCRETE-ENCASED ELECTRODE) - AN ELECTRODE ENCASED BY AT LEAST 2" OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH EARTH, CONSISTING OF AT LEAST 20 OF ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2" IN DIAMETER, OR CONSISTING OF AT LEAST 20 OF BARE COPPER CONDUCTOR NOT SMALLER THAN NO. 4 AWG. REINFORCING BARS SHALL BE PERMITTED TO BE BONDED TOGETHER BY THE USUAL STEEL TIE WIRES OR OTHER EFFECTIVE MEANS.
4.	GROUND ROD - ROD IS TO BE 8FT IN LENGTH AND SHALL BE MADE OF IRON OR STEEL AT LEAST 5/8" DIAMETER. INSTALLATION METHODS FOR GROUND ROD SHALL BE IN COMPLIANCE WITH THE NEC SUCH THAT AT LEAST 8' OF LENGTH IS IN CONTACT WITH THE EARTH.



E4.0 SCALE: NTS

KVA RATING	PRIMARY FLA	SECONDARY FLA	PRIMARY PROTECTION	PRIMARY FEEDER	SECONDARY PROTECTION	SECONDARY FEEDER	GROUNDING ELECTRODE CONDUCTOR (GEC)	TRANSFORMER IMPEDANCE	APPROX. DIMENSIONS HIGH WIDE DEEP	APPROX. WEIGHT	SPECIFIC NOTES
3	3.6	8.3	15A/3P	3#1/2, 1#12G, 3/4"C	15A/3P	4#12, 1#8G, 3/4"C	1#8, 3/4"C	4.57%	15 15 11	140LBS	1,2
6	7.2	16.7	15A/3P	3#1/2, 1#12G, 3/4"C	20A/3P	4#12, 1#8G, 3/4"C	1#8, 3/4"C	4.57%	15 15 11	145LBS	1,2
9	10.8	25.0	15A/3P	3#1/2, 1#12G, 3/4"C	30A/3P	4#10, 1#8G, 3/4"C	1#8, 3/4"C	4.57%	20 20 20	155LBS	1,2
15	18.1	41.7	25A/3P	3#1/0, 1#10G, 3/4"C	50A/3P	4#6, 1#8G, 1-1/4"C	1#8, 3/4"C	2.88%	26 21.88 17.75	250LBS	
30	36.1	83.3	45A/3P	3#6, 1#10G, 1"C	100A/3P	4#1, 1#6G, 1-1/2"C	1#6, 3/4"C	2.56%	36.88 24.88 21.13	415LBS	
45	54.2	125.0	70A/3P	3#4, 1#8G, 1-1/4"C	150A/3P	4#1/0, 1#6G, 2"C	1#6, 3/4"C	3.44%	36.88 24.88 21.13	478LBS	
60	72.3	166.7	100A/3P	3#1, 1#6G, 1-1/2"C	250A/3P	4#2, 1#6G, 2"C	1#4, 3/4"C	3.44%	41 30.54 24.88	564LBS	
112.5	135.4	312.5	175A/3P	3#2, 1#6G, 2"C	400A/3P	21#4/3/0, 21#2, 1-1/2"C	1#2G, 3/4"C	3.63%	51 34.5 31.5	1263LBS	
150	180.5	416.7	225A/3P	3#4/0, 1#4G, 2"C	500A/3P	21#4/250MCB, 1#1/0G, 3"C	1#1/0G, 3/4"C	3.39%	51 34.5 31.5	1410LBS	
225	270.8	625.0	350A/3P	3#5/0DCB, 1#3G, 3"C	800A/3P	21#4/500MCB, 1#2/0G, 3-1/2"C	1#2/0G, 3/4"C	4.34%	60 38 33.5	1745LBS	
300	361.3	833.3	450A/3P	3#5/0A, 1#2G, 3"C	1200A/3P	31#4/400MCB, 1#3/0G, 3-1/2"C	1#3/0G, 3/4"C	4.40%	62 42 38	2140LBS	
500	601.7	1388.9	750A/3P	21#3/500MCB, 1#1/0G, 3"C	1600A/3P	51#4/400MCB, 1#3/0G, 3-1/2"C	1#3/0G, 3/4"C	4.57%	60 56 36	3450LBS	1,2
750	902.5	2083.3	1200A/3P	31#3/500MCB, 1#3/0G, 3"C	2500A/3P	71#4/500MCB, 31#3/0G, 3-1/2"C	1#3/0G, 3/4"	4.57%	74 56 41	3950LBS	1,2

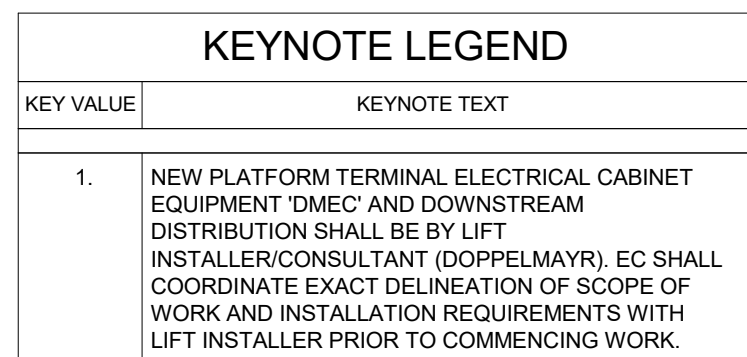
A. ALL TRANSFORMERS ARE 480V, 3PHASE, DELTA PRIMARY AND 208Y/120V, 3PHASE SECONDARY.
B. ALL CONDUCTORS ARE THWN, COPPER, SEE PLANS FOR INCREASED CONDUCTOR SIZE DUE TO VOLTAGE DROP.
C. BONDING AND GROUNDING CONDUCTORS ARE TO BE INSTALLED PER NEC 250.30 - GROUNDING SEPERATELY DERIVED ALTERNATING CURRENT SYSTEMS.
D. WEIGHT SHOWN FOR REFERENCE ONLY, AND MAY VARY BY MANUFACTURER.

A. TRANSFORMER IMPEDANCE IS THE ASSUMED VALUE AND IS USED FOR FAULT-CURRENT CALCULATIONS. IF SUBMITTED TRANSFORMER IS OF A DIFFERENT VALUE, REVISED CALCULATIONS MAY BE REQUIRED.

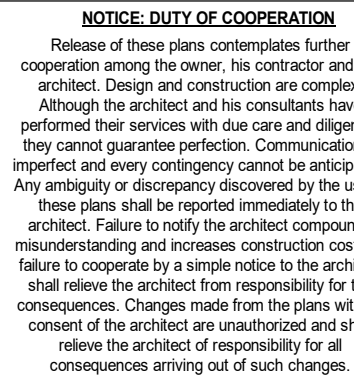
B. EC TO FIELD VERIFY WEIGHTS OF NON DOE 2016 AS THEY MAY VARY BY MANUFACTURER.

NOTES:

1. ALL CALCULATIONS WERE DONE USING GUSSMAN "POINT-TO-POINT" METHOD.
2. REFER TO PLANS FOR ASSUMED UTILITY TRANSFORMER SIZE UTILIZED FOR CALCULATIONS. EXACT TRANSFORMER SIZE, IMPEDANCE, AND AVAILABLE SHORT CIRCUIT CURRENT SHALL BE VERIFIED WITH UTILITY PRIOR TO ORDERING ELECTRICAL EQUIPMENT. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.
3. DISTRIBUTION TRANSFORMER IMPEDANCES USED IN THE CALCULATIONS WERE TAKEN FROM EATONS PUBLISHED IMPEDANCES FOR DOE 2016 DRY-TYPE TRANSFORMERS.
4. CONDUCTOR LENGTHS INDICATED IN THIS SCHEDULE ARE FOR THE PURPOSES OF FAULT CURRENT CALCULATIONS ONLY. THESE LENGTHS ASSUME WORST CASE SHORTEST DISTANCE CONDITIONS AND SHOULD NOT BE UTILIZED BY THE ELECTRICAL CONTRACTOR FOR BIDDING PURPOSES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ESTIMATING AND MEASURING ACTUAL FIELD CONDITION LENGTHS AS PART OF THE BID PROCESS.



E500	NO SCALE
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[illegible]

STEAMBOAT GONDOLA RELOCATION



Job Number:	20034
Date:	03/05/21
Drawn By:	BDJ, MAE
Checked By:	TPK

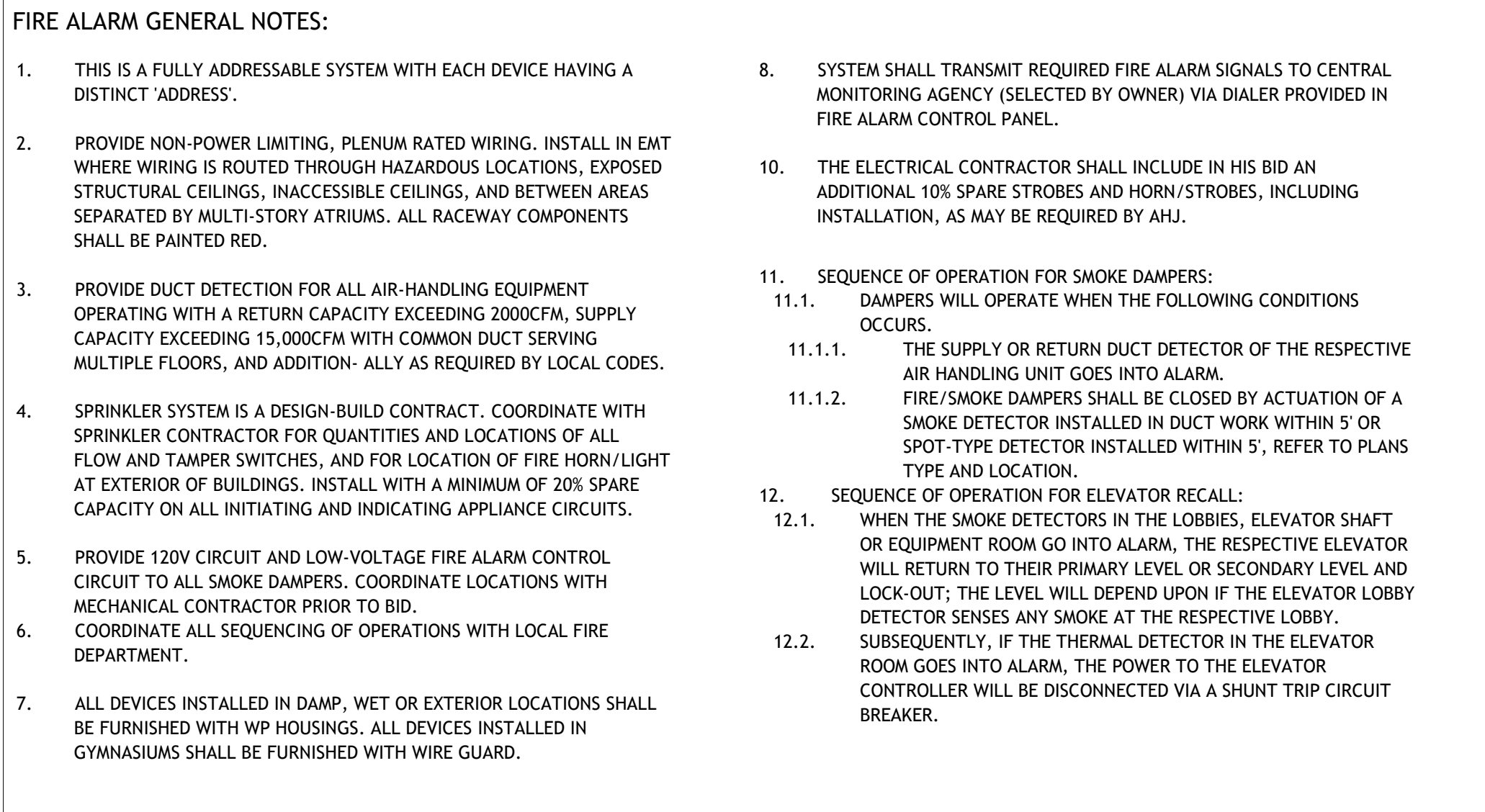
PERMIT SET

ELECTRIC,
DIAGRAM

E500

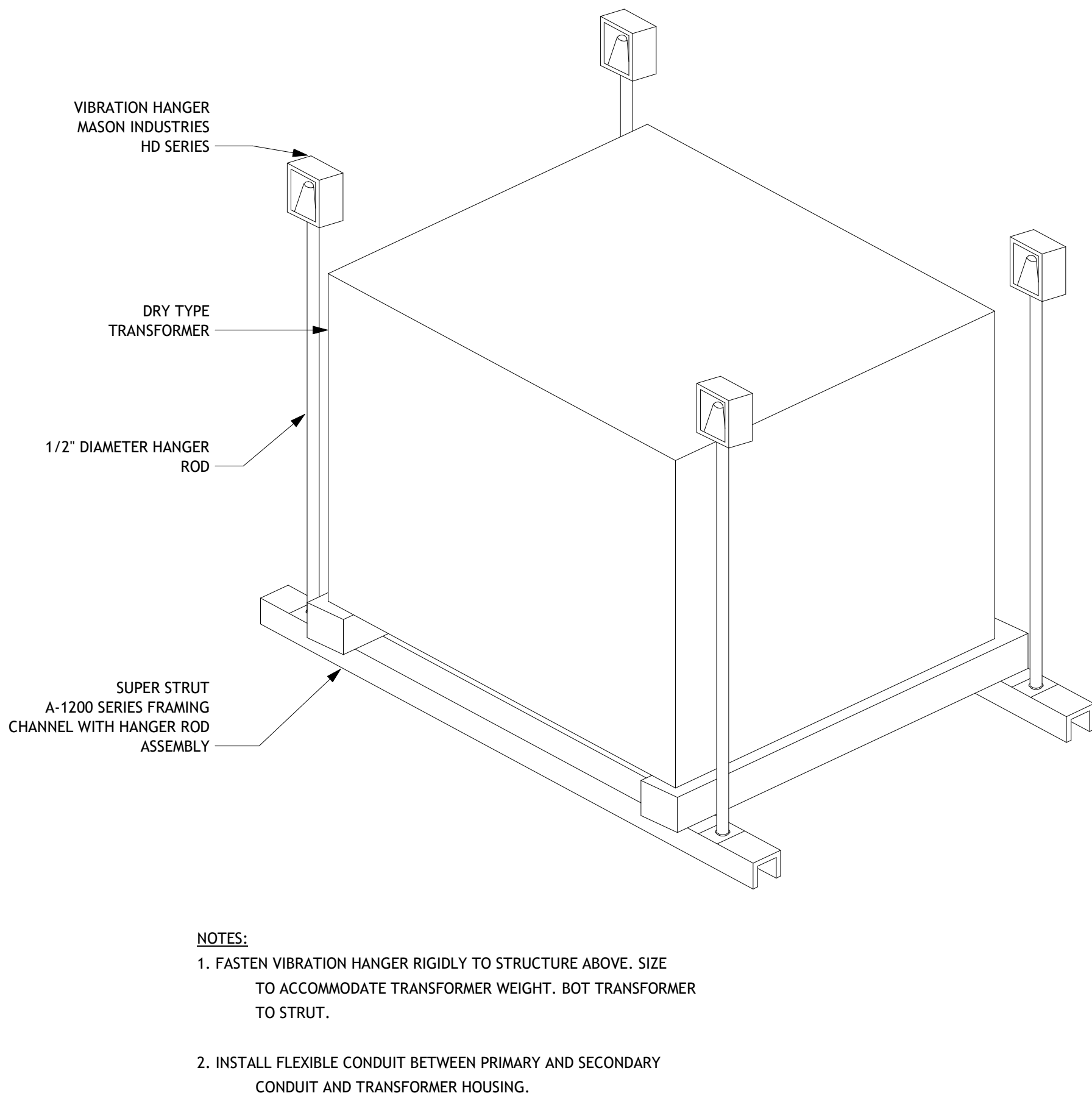


500	$1/8" = 1'-0"$
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KEY VALUE	KEYNOTE TEXT
1.	NEW (1) 3" PVC CONDUIT ROUTED 30" BELOW GRADE FOR CONNECTION TO SITE TELEPHONE SERVICE POINT. ELECTRICAL CONTRACTOR SHALL VERIFY CONDUIT SIZING AND QUANTITY WITH SERVICE PROVIDER PRIOR TO INSTALLATION. REFER TO ELECTRICAL SITE PLAN FOR MORE INFORMATION.
2.	NEW (1) 3" PVC CONDUIT ROUTED 30" BELOW GRADE FOR CONNECTION TO SITE FIBER OPTIC SERVICE POINT. ELECTRICAL CONTRACTOR SHALL VERIFY CONDUIT SIZING AND QUANTITY WITH SERVICE PROVIDER PRIOR TO INSTALLATION. REFER TO ELECTRICAL SITE PLAN FOR MORE INFORMATION.
3.	MAIN TELECOMMUNICATIONS DEMARC POINT AND OWNER (SSRC) IT/MDF EQUIPMENT. EC SHALL PROVIDE MAIN TELEPHONE TERMINAL BOARD (MTTB) AS NECESSARY AND REQUIRED BY OWNER (SSRC). IF REQUIRED, TELEPHONE BOARD SHALL CONSIST OF 3/4" FIRE-RETARDANT TREATED PLYWOOD INSTALLED IN ROOM. EC SHALL COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH OWNER (SSRC) AND IT INSTALLER PRIOR TO COMMENCING WORK. ALL RECEPTACLE DEVICES SHOWN IN BACKBOARD ON PLANS SHALL BE FLUSH MOUNT, UON.
4.	PROVIDE #6AWG GREEN COPPER GROUNDING CONDUCTOR (TYPICAL) BETWEEN GROUNDING BUSES AS INDICATED.
5.	ROUTE (1) 1/2" CONDUIT FOR FIRE ALARM CONTROL PANEL COMMUNICATIONS CABLING RACEWAY.
6.	ROUTE (1) 1/2" CONDUIT FOR SECURITY ALARM CONTROL PANEL COMMUNICATIONS CABLING RACEWAY.
7.	PROVIDE (2) 2" CONDUIT FROM OPERATOR CABIN TO BOILER ROOM FOR OPTICAL FIBER AND COPPER CABLING RACEWAY.
8.	PROVIDE (1) 3/4" C/W WITH PULL WIRE TO ELEVATOR CONTROL PANEL FOR ELEVATOR COMMUNICATIONS CABLING RACEWAY. CABLING SHALL BE FURNISHED BY OTHERS.
9.	PRINCIPAL GROUND POINT NEAR ELECTRICAL SERVICE EQUIPMENT.
10.	TELECOMMUNICATIONS MAIN GROUNDING BAR (TCMGB) FUNCTIONING AS INTERSYSTEM BONDING TERMINATION DEVICE, COMPLYING WITH NEC 250.94.
11.	NEW TYPICAL WORK AREA COMMUNICATIONS OUTLET FOR STRUCTURED CABLE TERMINATIONS. PROVIDE 2" DEEP, 2-GANG BOX WITH 1-GANG PLASTER RING. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING AND BUSH END. RECEPTACLE FACEPLATE, JACK, CABLING, AND TERMINATIONS BY OTHERS.

A.	PROVIDE ENT FOR ALL CABLING ROUTED THROUGH AREAS WITH EXPOSED STRUCTURAL CEILINGS AND THROUGH INACCESSIBLE CEILINGS, COORDINATE CONDUIT SIZE REQUIREMENTS WITH CABLE INSTALLER.
B.	ALL EXPOSED CONDUIT SHALL BE CONCEALED TO THE GREATEST EXTENT POSSIBLE, AND SHALL BE INSTALLED PARALLEL AND CLOSE TO STRUCTURAL MEMBERS, PAINT CONDUIT TO MATCH ADJACENT FINISHES.
C.	PROVIDE PULLCORD FOR ALL CONDUIT INSTALLED FOR CABLE.
D.	PROVIDE PULLBOXES AS REQUIRED BY CABLE INSTALLER FOR RUNS EXCEEDING MAXIMUM PULL DISTANCE, AS IDENTIFIED BY CABLE INSTALLER.
E.	FOR ALL FREELY RUN ARMORED METALLIC FIBER OPTIC CABLING, CONTRACTOR SHALL GROUND CABLING ARMOR TO THE NEAREST PBB OR SDB.
F.	PROVIDE SLEEVES AND CONDUIT BETWEEN FLOORS FOR ROUTING OF CABLE. COORDINATE CONDUIT SIZE WITH CABLE INSTALLER. COORDINATE LOCATION OF RACEWAY WITH ARCHITECT AND CABLE INSTALLER.
G.	ALL CONDUIT AND CABLING IN CRAWL SPACE IS TO BE SUPPORTED BY AND TIGHT TO STRUCTURE ABOVE WHERE CONDUIT TRANSITIONS FROM BEING SUPPORTED BY STRUCTURE INTO SOIL. ADD LOOP AND/OR FLEXIBLE CONDUIT FOR ANTICIPATED SOIL MOVEMENT.
H.	NOTE THAT ALL UNDERGROUND CONDUIT BENDS ARE TO BE GALVANIZED RIGID CONDUIT. UNDERGROUND CONDUIT EXTENDING ABOVE SLAB IS ALSO TO BE GALVANIZED RIGID CONDUIT. REFER TO SPECIFICATIONS FOR FULL CONDUIT REQUIREMENTS.



E600	NTS
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ESF

ERIC SMITH ASSOCIATES, P.C.
1919 SEVENTH STREET
BOULDER, COLORADO, 80302
(303) 442-5456, (303) 442-4745 FAX

Project Phase
PERMIT SET
Sheet Title
ELECTRICAL DIAGRAMS
Sheet Number
E600

MECHANICAL EQUIPMENT SCHEDULE									
KEY	EQUIPMENT DESCRIPTION	LOAD	ELECTRICAL	MOCP/MFS	FEEDER	DISCONNECT	PANEL	CIRCUIT	NOTES
B 1	HEATING WATER BOILER	30.2 FLA	208 V/3-10881 VA	40A	3#8, 1#10G, 1°C	60A/3P		LB1A 1,3,5	
EF 1	EXHAUST FAN	818 W	120 V/1-818 VA	20A	2#12, 1#12G, 3/4°C	30A/1P		LB1A 7	1
ELEV 1	ELEVATOR	25 HP 34 FLA	480 V/3-28266 VA	70A	3#4, 1#8G, 1-1/4°C	100A/3P		HB1A 1,3,5	
GF 1	GLYCOL FEEDER	50 W	120 V/1-50 VA	20A	2#12, 1#12G, 3/4°C	NEMA 5-20R		LB1A 11	2
P 1	PUMP	7.5 HP 11 FLA	480 V/3-9144 VA	20A	3#12, 1#12G, 3/4°C	30A/3P		HB1A 7,9,11	
P 2	PUMP	7.5 HP 11 FLA	480 V/3-9144 VA	20A	3#12, 1#12G, 3/4°C	30A/3P		HB1A 13,15,17	
RP 1	RADIANT CEILING PANEL	750 W	120 V/1-750 VA	20A	2#12, 1#12G, 3/4°C	20A/1P		LB1A 17	3
RP 2	RADIANT CEILING PANEL	750 W	120 V/1-750 VA	20A	2#12, 1#12G, 3/4°C	20A/1P		LB1A 17	3
RP 3	RADIANT CEILING PANEL	750 W	120 V/1-750 VA	20A	2#12, 1#12G, 3/4°C	20A/1P		LB1A 19	3
RP 4	RADIANT CEILING PANEL	750 W	120 V/1-750 VA	20A	2#12, 1#12G, 3/4°C	20A/1P		LB1A 19	3
RP 5	RADIANT CEILING PANEL	750 W	120 V/1-750 VA	20A	2#12, 1#12G, 3/4°C	20A/1P		LB1A 21	3
RP 6	RADIANT CEILING PANEL	750 W	120 V/1-750 VA	20A	2#12, 1#12G, 3/4°C	20A/1P		LB1A 21	3
SP 1	PLUMBING PUMP	4/10 HP	120 V/1-1176 VA	20A	2#12, 1#12G, 3/4°C	30A/1P		LB1A 9	
SPCP 1	SUMP PUMP CONTROL PANEL	3 FLA	120 V/1-360 VA	20A	2#12, 1#12G, 3/4°C	20A/1P TOGGLE		LB1A 11	
STCP 1	STORAGE TANK CONTROL PANEL	3 FLA	120 V/1-360 VA	20A	2#12, 1#12G, 3/4°C	20A/1P TOGGLE		LB1A 11	
UH 1	UNIT HEATER	7.5 KW 9.0 FLA	480 V/3-7482 VA	20A	3#12, 1#12G, 3/4°C	30A/3P		HB1A 19,21,23	
UH 2	UNIT HEATER	5.0 KW 6.0 FLA	480 V/3-4989 VA	20A	3#12, 1#12G, 3/4°C	30A/3P		HB1A 19,21,23	

MECHANICAL EQUIPMENT GENERAL NOTES	
A.	REFER TO MECHANICAL PLANS FOR SPECIFIC EQUIPMENT LOCATIONS AND REQUIREMENTS.
B.	PRIOR TO ROUGH-IN, COORDINATE ALL MECHANICAL EQUIPMENT POWER AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR'S FINAL SHOP DRAWINGS.
C.	PROVIDE ALL 120V CONTROL WIRING, REFER TO SPECIFICATIONS FOR FURTHER CONTROL WIRING CLARIFICATION.
D.	FOR ANY VAV SYSTEM COORDINATE POWER REQUIREMENTS WITH MECHANICAL CONTRACTOR AND PROVIDE 120V CONNECTIONS AT EACH VAV BOX, OR AT CENTRAL CONTROL PANEL LOCATION(S) AS REQUIRED. IF EXACT QUANTITIES AND LOCATIONS FOR CONTROL PANELS ARE NOT KNOWN AT BID TIME, E.C. IS TO INCLUDE ONE 120V CONNECTION AT EACH VAV DEVICE IN THE BASE BID PRICE AND PROVIDE A CREDIT DURING CONSTRUCTION IF LESS CONNECTIONS ARE REQUIRED.
E.	EXTERIOR DISCONNECT SWITCHES ARE TO BE PROVIDED AS NEMA 3R EQUIPMENT UNLESS OTHERWISE NOTED.
F.	PROVIDE WEATHERPROOF 120 VOLT GFCI RECEPTACLES WITHIN 25' OF ALL ROOFTOP HEATING, VENTILATING, AND AIR CONDITIONING EQUIPMENT. CIRCUIT TO SPARE CIRCUIT ON NEAREST 120V PANELBOARD OR AS INDICATED ON PLANS.
G.	PROVIDE DUCT DETECTION ON ALL RETURN AIR SYSTEMS OF 2,000 CFM OR GREATER, AND FOR ALL SUPPLY AIR SYSTEMS 15,000 CFM OR GREATER, INCLUDING THOSE SYSTEMS SERVING MULTIPLE FLOORS. PROVIDE ADDITIONAL DUCT DETECTORS AND INSTALL REMOTE INDICATOR LIGHTS AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
H.	FOR ANY BOILER MECHANICAL SYSTEM, E.C. IS TO PROVIDE AN EMERGENCY PUSHBUTTON OFF AND ANY CONTROL WIRING REQUIRED. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR AND EQUIPMENT PRIOR TO INSTALLATION.
I.	EC TO PROVIDE HAND/OFF/AUTO STARTERS FOR ALL MOTORS WHEN NOT INDICATED AS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR ON THE MECHANICAL PLANS. SIZE OF STARTER TO BE BASED UPON SIZE OF MOTOR HORSEPOWER INDICATED.
MECHANICAL EQUIPMENT SPECIFIC NOTES	
1.	VERIFY THAT ELECTRICAL DISCONNECT IS PROVIDED BY MANUFACTURER AND INSTALL IN ACCESSIBLE LOCATION.
2.	EC SHALL PROVIDE DEDICATED 120V DUPLEX GFCI RECEPTACLE WITHIN 3 FEET OF AND BEHIND UNIT. RECEPTACLE TO BE CIRCUITED PER MECHANICAL EQUIPMENT SCHEDULE.
3.	MOUNT RADIANT PANEL IN ELEVATOR SHAFT WITH BOTTOM OF PANEL AT 18" ABOVE BOTTOM OF PIT. CONFIRM ALL MOUNTING LOCATIONS WITH ELEVATOR INSTALLER.

PANEL: HB1A																	
LOCATION: BOILER ROOM 100					VOLTS: 480/277 Wye					A.I.C. RATING: 65K AIC FULLY RATED							
SUPPLY FROM:					PHASES: 3					MAINS TYPE: MLO							
MOUNTING: SURFACE					WIRES: 4					MAINS RATING: 400 A							
ENCLOSURE: NEMA 1										MCB RATING: N/A							
Notes:																	
CKT	CCT TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	CCT TYPE	CKT
1	M	ELEVATOR 'ELEV-1'	70	3		9422	0						--	--	BUSSED SPACE	--	2
3	--	--	--	--				9422	0				--	--	BUSSED SPACE	--	4
5	--	--	--	--						9422	0		--	--	BUSSED SPACE	--	6
7	M	PUMP (P-1)	20	3		3048	0						--	--	BUSSED SPACE	--	8
9	--	--	--	--				3048	0				--	--	BUSSED SPACE	--	10
11	--	--	--	--						3048	0		--	--	BUSSED SPACE	--	12
13	M	PUMP (P-2)	20	3		3048	0						--	--	BUSSED SPACE	--	14
15	--	--	--	--				3048	0				--	--	BUSSED SPACE	--	16
17	--	--	--	--						3048	0		--	--	BUSSED SPACE	--	18
19	E	UNIT HEATERS (UH-1, UH-2)	20	3		4157	0						--	--	BUSSED SPACE	--	20
21	--	--	--	--				4157	0				--	--	BUSSED SPACE	--	22
23	--	--	--	--						4157	0		--	--	BUSSED SPACE	--	24
25	L	PLATFORM AND BOH LTG	20	1		834	0						--	--	BUSSED SPACE	--	26
27	E	LTG CONTROL RELAY PANEL 'RP1'	20	1				500	0				--	--	BUSSED SPACE	--	28
29	--	SPARE	20	1						0	0		--	--	BUSSED SPACE	--	30
31	--	SPARE	20	1		0	32333						3	150	DOPPELMAYR PANEL	E; M	32
33	--	BUSSED SPACE	--	--				0	32333				--	--	--	--	34
35	--	BUSSED SPACE	--	--						0	32333		--	--	--	--	36
37	--	BUSSED SPACE	--	--		0	7205						3	45	PANEL 'LB1A' VIA XFMR 'TB1A'	L; E; R...	38
39	--	BUSSED SPACE	--	--				0	8721				--	--	--	--	40
41	--	BUSSED SPACE	--	--						0	8597		--	--	--	--	42
Total Load:						60047 VA		61229 VA		60605 VA							
Total Amps:						217 A		221 A		219 A							
CB TYPE LEGEND															CIRCUIT PHASE CODE LEGEND N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER. N2. NEW LOAD ON EXISTING CIRCUIT BREAKER. N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.		
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER																	
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT																	
AFCI: ARC FAULT CIRCUIT INTERRUPTER																	
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER																	
HC-(ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION																	
HT#: HANDLE TIE WITH GROUPING #																	
ST: SHUNT TRIP																	
LOCK: PERMANENTLY LOCKABLE BREAKER																	
CCT TYPE:						LOAD		DEMAND LOAD		PANEL TOTALS							
LIGHTING:						872 VA		1090 VA									
RECEPTACLE:						1440 VA		1440 VA		TOTAL CONN. LOAD: 181882 VA							
MOTOR:						54872 VA		61939 VA		TOTAL EST. LOAD: 189167 VA							
EQUIPMENT:						124698 VA		124698 VA		TOTAL CONN.: 219 A							
KITCH EQUIP:										TOTAL EST. DEMAND: 228 A							
NOTES:																	

PANEL: LB1A																	
LOCATION: BOILER ROOM 100					VOLTS: 120/208 Wye					A.I.C. RATING: 10K AIC FULLY RATED							
SUPPLY FROM: TB1A					PHASES: 3					MAINS TYPE: MCB							
MOUNTING: SURFACE					WIRES: 4					MAINS RATING: 100 A							
ENCLOSURE: NEMA 1																	
Notes:																	
CKT	CCT TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	CCT TYPE	CKT
1	E	BOILER (B-1)	40	3		3627	180						1	20	UTILITY YARD RECEPT	R	2
3	--	--	--	--				3627	1200			GFEP	2	20	HEAT TRACE SYSTEM	E	4
5	--	--	--	--						3627	1200		--	--	--	--	6
7	M	EXHAUST FAN (EF-1)	20	1		818	0						1	20	SPARE	--	8
9	E	PLUMBING PUMP (SP-1)	20	1				1176	0				1	20	SPARE	--	10
11	E	CTRL PANELS AND GLYCOL FEEDER	20	1						770	0		1	20	SPARE	--	12
13	--	SPARE	20	1		0	0						1	20	SPARE	--	14
15	--	SPARE	20	1				0	0				1	20	SPARE	--	16
17	E	RP-1, RP-2	20	1						1500	0		1	20	SPARE	--	18
19	E	RP-3, RP-4	20	1		1500	0						1	20	SPARE	--	20
21	E	RP-5, RP-6	20	1				1500	0				1	20	SPARE	--	22
23	E	MECHANICAL CONTROLS	20	1						500	0		1	20	SPARE	--	24
25	R	BOILER ROOM RECEPTS	20	1		540	0						1	20	SPARE	--	26
27	L; R	ELEVATOR SHAFT RECEPT	20	1				218	0				1	20	SPARE	--	28
29	M	THERMOSTAT AND MOTOR DAMPER	20	1						500	0		1	20	SPARE	--	30
31	R	MACHINE ROOM RECEPT	20	1		360	0						--	--	BUSSED SPACE	--	32
33	E	ELEVATOR CAB CONNECTION	20	1				1000	0				--	--	BUSSED SPACE	--	34
35	E	FIRE ALARM CONTROL PANEL	20	1						500	0		--	--	BUSSED SPACE	--	36
37	R	OPERATOR CABIN RECEPTS	20	1		180	0						--	--	BUSSED SPACE	--	38
39	--	SPARE	20	1				0	0				--	--	BUSSED SPACE	--	40
41	--	SPARE	20	1						0	0		--	--	BUSSED SPACE	--	42
Total Load:						7205 VA		8721 VA		8597 VA							
Total Amps:						60 A		74 A		73 A							
CB TYPE LEGEND															CIRCUIT PHASE CODE LEGEND N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER. N2. NEW LOAD ON EXISTING CIRCUIT BREAKER. N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.		
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER																	
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT																	
AFCI: ARC FAULT CIRCUIT INTERRUPTER																	
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER																	
HC-(ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION																	
HT#: HANDLE TIE WITH GROUPING #																	
ST: SHUNT TRIP																	
LOCK: PERMANENTLY LOCKABLE BREAKER																	
CCT TYPE:															PANEL TOTALS		
LIGHTING:															TOTAL CONN. LOAD: 24523 VA		
RECEPTACLE:															TOTAL EST. LOAD: 24737 VA		
MOTOR:															TOTAL CONN.: 68 A		
EQUIPMENT:															TOTAL EST. DEMAND: 69 A		
KITCH EQUIP:																	
NOTES:																	

LIGHTING CONTROL NOTES	
GENERAL CONTROL NOTES	
G1	THE LIGHTING CONTROL SYSTEM CONSISTS OF THE FOLLOWING: a. STAND-ALONE CONTROLS b. ROOM CONTROLLER CONTROLS c. NETWORKED RELAY BASED LIGHTING CONTROL PANEL SYSTEM - OR d. NETWORKED DISTRIBUTED LIGHTING CONTROLS - OR e. NETWORKED WIRELESS DISTRIBUTED LIGHTING CONTROLS
G2	ALTERNATE MANUFACTURER'S WILL BE REVIEWED ACCORDING TO THE NOTES PROVIDED IN THE LIGHTING FIXTURE SCHEDULE.
G3	ALL WIRING DIAGRAMS WITHIN THESE DRAWINGS ARE PROVIDED TO COMMUNICATE THE DESIGN INTENT. SYSTEM SHALL BE WIRED ACCORDING TO THE APPROVED SHOP DRAWINGS.
G4	ALL STRUCTURED CABLE WIRING SHOWN ON RISER DIAGRAM IS INTENDED TO BE BY CONTRACT MANUFACTURER APPROVED STANDARD STRUCTURED CABLING, UNLESS OTHERWISE NOTED. EC SHALL PROVIDE ALL CABLING WITHIN THE LIGHTING CONTROL SYSTEM, CABLING BETWEEN THE NETWORKED HEAD-END AND THE BUILDINGS COMMUNICATION NETWORK SHALL BE PROVIDED BY THE LOW VOLTAGE CONTRACTOR/OWNER.
G5	ALL MANUALLY DIMMED LIGHT LOADS SHALL BE CAPABLE OF DIMMING LIGHTS TO OFF SETTING. DIMMING COMPATIBILITY BETWEEN THE CONTROLS AND LIGHT FIXTURES SHALL BE COORDINATED BY THE EC TO ENSURE THAT LIGHTING IS ABLE TO DIM TO LEVEL NOTED ON LIGHTING FIXTURE SCHEDULE.
G6	LIGHTING CONTROL SYSTEM SHALL INCLUDE A MINIMUM OF (4) HOURS OF MANUFACTURER'S REPRESENTATIVE TIME ON SITE FOR SYSTEM CHECK-OUT AND OWNER TRAINING. ELECTRICAL CONTRACTOR SHALL VIDEO RECORD TRAINING SESSION AND PROVIDE COPY OF VIDEO TO OWNER AS PART OF PROJECT COMPLETION SUBMITTALS.
G7	ALL DIGITAL SWITCHES FOR OVERRIDE CONTROL OF LIGHTING CONTROL SYSTEM(S) SHALL HAVE A MAXIMUM SETTING OF 2 HOURS PER IECC REQUIREMENTS.
G8	FINAL OCCUPANCY AND DAYLIGHT SENSOR LOCATION SHALL BE PROVIDED BY MANUFACTURER AND LOCATED PER APPROVED SHOP DRAWINGS AND DEVICE REQUIREMENTS. LOCATIONS INDICATED IN THESE DRAWINGS SHALL BE REVIEWED AND ALTERED AS NECESSARY FOR CORRECT OPERATION BY MANUFACTURER. IF OPERATIONS OF SENSORS DOES NOT MEET THE INTENT OUTLINED IN THESE DOCUMENTS THE MANUFACTURER REPRESENTATIVE SHALL PROVIDE FIELD RECTIFICATION SERVICES AS NECESSARY IN ORDER TO RECONFIGURE SYSTEM TO MEET OUTLINED INTENT.
STANDALONE LIGHTING CONTROL GENERAL NOTES	
S1	APPROVED STANDALONE LIGHTING CONTROLS TO BE PROVIDED BY ONE OF THE FOLLOWING PRE-APPROVED MANUFACTURERS: a. LEVITON b. nLIGHT/SENSORSWITCH c. LUTRON d. GREENGATE e. WATTSTOPPER f. DOUGLAS
ROOM CONTROLLER GENERAL NOTES	
R1	APPROVED ROOM CONTROLLER LIGHTING CONTROLS TO BE PROVIDED BY ONE OF THE FOLLOWING PRE-APPROVED MANUFACTURERS: a. CRESTRON b. nLIGHT c. LUTRON d. GREENGATE e. WATTSTOPPER f. DOUGLAS
R2	REFER TO ELECTRICAL LIGHTING LAYOUTS FOR LAYOUT OF DEVICES CONNECTED TO ROOM CONTROLLERS. ROOM CONTROLLER COMPONENTS ARE INDICATED IN THE "LIGHTING CONTROL DEVICE" SCHEDULE. THESE COMPONENTS START WITH THE DESIGNATION "R".
R3	ROOM CONTROLLER HEAD END EQUIPMENT LOCATIONS ARE INDICATED IN SPACES, HOWEVER DRAWINGS ARE DIAGRAMMATIC AND EXACT QUANTITY OF ROOM CONTROLLER HEAD END EQUIPMENT PIECES VARIES FROM MANUFACTURER TO MANUFACTURER BASED ON DIMMING UTILIZATION, QUANTITY OF RELAYS, NUMBER OF INPUT DEVICES, QUANTITY OUTPUT ZONES AND RECEPTACLE CONTROL.

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMP QUAN.	LAMP WATTAGE	LAMP / CCT / CRI	MAX WATTAGE	LUMEN OUTPUT	DIMMING	FIXTURE FINISH	LOCATION	BOF/RFD/O FH	NOTES
EA1	AREA TYPE IV LED POLE	HUBBELL	ALT4-P70-96L-3K-277-BL	277 V	1	224 W	3000K 80 CRI LED	224 VA	19582	--	BLACK	POLE	15'-0" OFH	1,2
EA2	AREA TYPE V LED POLE	HUBBELL	ALT5-P35-96L-3K-277-BL	277 V	1	104 W	3000K 80 CRI LED	104 VA	11644	--	BLACK	POLE	15'-0" OFH	1,2
EA3	EXTERIOR LED AREA POLE LIGHT, SINGLE HEAD TYPE II	HUBBELL	ALT4-P35-96L-3K-277-BL	277 V	1	104 W	3000K 80 CRI LED	104 VA	9902	--	BLACK	POLE	15'-0" OFH	1,2
ED1	15" X 15" SQUARE LED CANOPY DOWNLIGHT	CREE	CPY250-DM-F-C-UL-BK-30K-DIM	277 V	1	31 W	3000K 80 CRI LED	31 VA	4210	--	BLACK	CANOPY SURFACE	2" RFD	1,2
EW2EM	9" WIDE LED WALL MOUNT	LITHONIA	WDGE1 LED-P1-30K-80CRI-VM-MVOL T-E4WH-DBLXD	277 V	1	10 W	3000K 80 CRI LED	10 VA	1163	--	BLACK	SURFACE WALL	SEE PLANS	1
L1	4' LED STRIP LIGHT	LITHONIA	CLX-L48-3000LM-SEF-L/LENS -MVOLT-GZ10-30K-80CRI-W H	277 V	1	20 W	3000K 80 CRI LED	20 VA	2631	0-10V	WHITE	SURFACE CEILING	1" RFD	1
L1EM	4' LED STRIP LIGHT WITH EMERGENCY	LITHONIA	CLX-L48-3000LM-SEF-L/LENS -MVOLT-GZ10-30K-80CRI-E1 0WLCP-WH	277 V	1	20 W	3000K 80 CRI LED	20 VA	2631	0-10V	WHITE	SURFACE CEILING	1" RFD	1
L2	4' LED STRIP LIGHT	LITHONIA	CLX-L48-3000LM-SEF-L/LENS -MVOLT-GZ10-30K-80CRI-W H-ZACVH	277 V	1	20 W	3000K 80 CRI LED	20 VA	2631	0-10V	WHITE	SUSPENDED	1" RFD	1
L2EM	4' LED STRIP LIGHT WITH EMERGENCY	LITHONIA	CLX-L48-3000LM-SEF-L/LENS -MVOLT-GZ10-30K-80CRI-W H-ZACVH-E10WLCP	277 V	1	20 W	3000K 80 CRI LED	20 VA	2631	0-10V	WHITE	SUSPENDED	1" RFD	1
S1	6" SURFACE MOUNT CYLINDER	LITHONIA	LDN6CYL-30/10-L06-BR-LSS-MVOLT	277 V	1	11 W	3000K 80 CRI LED	11 VA	950	--	BLACK	SURFACE CEILING	9'-0" BOF	1
W1	4' LED STRIP LIGHT ELEVATOR SHAFT	CREE	C-STRIP-A-LIN4-22L-30K-WH	120 V	1	19 W	3000K 80 CRI LED	19 VA	2200	--	--	SURFACE WALL	6'-0" OFH	1

LIGHTING FIXTURE GENERAL NOTES	
A.	ALL FRONT OF HOUSE LED LAMPS TO BE 3000K COLOR TEMPERATURE AND A MINIMUM OF 90CRI, UON.
B.	ALL REFLECTOR LAMPS TO BE PROVIDED AS WIDE FLOOD DISTRIBUTION, UON.
C.	LUMENS LISTED ARE DELIVERED LUMENS, NOT INITIAL.
D.	FOR ALL SPECIFIED LUMINAIRES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MOUNTING HARDWARE, ACCESSORIES, COMPONENTS, LEADER/JUMPER CABLES, WIRE FEED, CONNECTORS, END CAPS, REMOTE POWER SUPPLIES, AND ANY OTHER NECESSARY COMPONENT AS REQUIRED FOR INSTALLING A SECURE AND FULLY FUNCTIONAL SYSTEM.
E.	THE CONTRACTOR SHALL VERIFY THE CEILING TYPE BEFORE ORDERING LIGHT FIXTURES TO ENSURE COMPATIBILITY WITH SPECIFIED FIXTURES. NOTIFY SPECIFIER OF ANY DISCREPANCIES.
F.	ALL FINISH SELECTIONS SHALL BE VERIFIED BE ARCHITECT/INTERIOR DESIGNER/OWNER AS PART OF THE SUBMITTAL PROCESS. UNLESS OTHERWISE NOTED, EC SHALL ASSUME STANDARD LUMINAIRE FINISH OPTION FOR PRICING.
G.	ALL MOUNTING HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL ELEVATIONS PRIOR TO ANY ROUGH-IN.

LIGHTING FIXTURE SPECIFIC NOTES	
1.	ARCHITECT TO VERIFY COLOR FINISH PRIOR TO ORDERING.
2.	OVERALL FIXTURE HEIGHT DTERMINED FROM PLATFORM LEVEL ELEVATION (LEVEL 1) TO BOTTOM OF FIXTURE LENS. COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

LIGHTING CONTROLS

NAMING CONVENTION

SYSTEM TYPE

N = NETWORK
R = ROOM CONTROLLER
(THE ABSENCE OF LETTERS ABOVE UNDER 'SYSTEM TYPE'
INDICATE A STANDALONE SYSTEM)

AUTOMATIC MEANS OF SHUTOFF

L = LIGHT LEVEL (VIA PHOTOCELL)
M = MANUAL
O = OCCUPANCY
T = TIMECLOCK
V = VACANCY

DEVICES

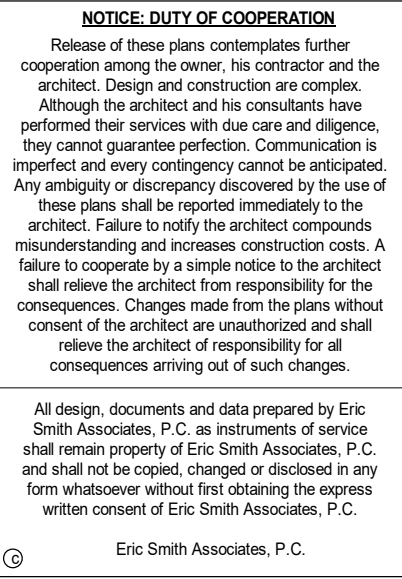
C = CONTROLLED RECEPTACLE
D = DIMMER
E = EXTERIOR
P = PHOTOCELL
S = SENSOR
U = UNIQUE DEVICE TYPE
W = SWITCH CONTROLLED DEVICE

NUMBERING

1, 2, 3, ... = QUANTITY AS REQUIRED FOR
DIFFERENT PROGRAMMING SCENARIOS, DEVICE
CHARACTERISTICS OR MOUNTING CONVENTIONS

LIGHTING SEQUENCE OF OPERATION								
CONTROL SEQUENCE	ON	OFF	SENSOR TYPE	TIME OUT	DIMMING	DAYLIGHT HARVESTING	TARGET ILLUMINANCE (FC)	NOTES
T1	TIMECLOCK AUTOMATIC ON 30 MINUTES PRIOR TO BUSINESS HOURS	TIMECLOCK AUTOMATIC OFF 30 MINUTES AFTER CLOSE OF BUSINESS	NONE	N/A	N/A	NO	--	
T2	TIMECLOCK AUTOMATIC ON 30 MINUTES PRIOR TO BUSINESS HOURS	TIMECLOCK AUTOMATIC OFF 30 MINUTES AFTER CLOSE OF BUSINESS	NONE	N/A	SWITCHING	NO	--	
T3	MANUAL ON	MANUAL OFF	NONE	N/A	0-10V	NO	--	

LIGHTING RELAY SCHEDULE - RP1					
RELAY ID	RELAY DESCRIPTION	DIMMING / SWITCHING	VOLTAGE	PANEL-CIRC UIT	CONTROL SEQUENCE
RP1-1	PLATFORM POLES	--	277 V	HB1A-25	TIMECLOCK
RP1-2	WALL/ELEVATOR SCONCES	--	277 V	HB1A-25	TIMECLOCK
RP1-3	GONDOLA DOWNLIGHTS	--	277 V	HB1A-25	TIMECLOCK
RP1-4	SPARE				
RP1-5	SPARE				
RP1-6	SPARE				
RP1-7	SPARE				
RP1-8	SPARE				

[illegible]

STEAMBOAT GONDOLA
RELOCATION
STEAMBOAT SPRINGS, CO



Job Number:	20034
Date:	03/05/21
Drawn By:	BDJ, MAE
Checked By:	TPK

Project Phase
PERMIT SET

Sheet Title

ELECTRICAL LIGHTING SCHEDULES

Sheet Number

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