

#### • Parks and Recreation •

JoEllen Grandy • Parks Planner Telephone: (801) 336-3926 Fax: (801) 336-3909



Project :	Layton City Welker Trailhead Improvements, Project 22-02 (2700 N. 2125 E. – Layton, UT 84041)
From:	JoEllen Grandy, Parks Planner Layton City Parks & Recreation 465 N. Wasatch Dr. Layton, UT 84041 801.336.3926 jgrandy@laytoncity.org
Date:	June 1, 2023
Re:	Request for Information

#### 1. The Parking Lot Lights are to be changed to the following model:

Lithonia DSX1 LED P3 40K T4M MVOLT SPA DBLXD 25 FT. SQUARE ALUMINUM HINGE BASE POLE DBLXD 100MPH + GUSTS WIND RATING. Mounting: Pole, Pole Base. Lamps LED (102W)

#### 2. Where is existing City power located? RMP generally requires 2- 4" conduits for a 400 AMP service, and are they providing the wire?

See the attached pdf for clarifications on Sheets ES101, ES601 and ES602. (Service is to be single phase.)

RMP will provide the wire from the transformer to the secondary box. Contractor is to install the 3" conduit from the transformer to the secondary box. Contractor is also responsible for installing the 2" conduit and wire from the secondary box to the meter.



## DEFERRED SUBMITTALS

Delegated Deferred Design Submittals to be provided by Contractor

OVERCURRENT PROTECTIVE DEVICE STUDY AND ARC-FLASH STUDY REPORT & LABELING.

Provide the following items listed below and comply with additional requirements as provided. See specifications.

- 1. Coordination-study input data, including completed computer |
- 2. Study and equipment evaluation reports. 3. Overcurrent protective device coordination study report; signed
- professional engineer. Overcurrent protection shall coordinate to to 0.1 seconds on emergency power.
- 4. Arc-flash study input data, including completed computer progr 5. Arc-flash study report; signed, dated, and sealed by a qualified
- a. Submit study report for action prior to receiving final approval equipment submittals. If formal completion of studies will cause equipment manufacturing, obtain approval from Architect for submittal of sufficient study data to ensure that the selection associated characteristics is satisfactory.

SEISMIC CONTROL FOR ELECTRICAL SYSTEMS

- Provide the following items listed below and comply with addition specifications.
- A. Product Data: For each type of product.
- 1. Illustrate and indicate style, material, strength, fastening provis size of seismic-restraint component used. a. Tabulate types and sizes of seismic restraints, complete with strength in tension and shear as evaluated by an agency accep jurisdiction.
- b. Annotate to indicate application of each product submitted a requirements. B. Delegated-Design Submittal: For each seismic-restraint devic
- 1. Include design calculations and details for selecting seismic re performance requirements, design criteria, and analysis data signation
- professional engineer responsible for their preparation. 2. Design Calculations: Calculate static and dynamic loading cau operation, and seismic and wind forces required to select seism designing vibration isolation bases.
- a. Coordinate design calculations with wind load calculations re mounted outdoors. Comply with requirements in other Sections outdoors.
- 3. Seismic-Restraint Details:
- a. Design Analysis: To support selection and arrangement of s calculations of combined tensile and shear loads.
- b. Details: Indicate fabrication and arrangement. Detail attachm restrained items and to the structure. Show attachment location Identify components, list their strengths, and indicate directions
- transmitted to the structure during seismic events. Indicate asso isolation devices. c. Coordinate seismic-restraint and vibration isolation details w
- required for equipment mounted outdoors. Comply with requirer equipment mounted outdoors. d. Preapproval and Evaluation Documentation: By an agency acceptable to authorities
- having jurisdiction, showing maximum ratings of restraint items and the basis for approval (tests or calculations).
- C. Deferred Submittals for the Authority Having Jurisdiction (AHJ) shall be as required by IBC 106.3.4.2.
- . Deferred submittals of seismic restraint of nonstructural components must be submitted to the AHJ a minimum of two weeks prior to the planned installation in order to allow for plan review and forwarding to inspectors. In the event that the submittal is deficient additional time may become necessary.
- 2. No deferred submittal element shall be installed until AHJ approval has been received.
- 3. If seismic restraints of nonstructural components are installed prior to receiving AHJ approval they shall not be covered or concealed until plan review and inspection approval. Further, installers are proceeding at their own risk until plan review and inspection approval occurs.
- 4. Deferred Submittals are required for: a. Electrical distribution equipment (switchboards, panelboards, transformers, ATS, MCC's
- b. Generators, batteries, UPS.
- c. Conduit racks.
- d. Cable trays. e. Lighting fixtures.
- f. Control Panels

#### GENERAL LABELING SCHEME

FIRST DIGIT - BUILDING LEVEL (1 OR 2) SECOND DIGIT - PANEL TYPE

- M MECHANICAL (120/208/277/380/480V)
- L or LCP LIGHTING (120/208/277/480V)
- P PLUG LOADS (120/208V) G - GENERAL LOADS (120/280V
- E EMERGENCY (277/480V)
- S STANDBY (SPECIFIED ON PANEL)
- U UPS (SPECIFIED ON PANEL)

THIRD DIGIT - BUILDING AREA (A, B, C, D, ECT.) FOURTH DIGIT - SEQUENCE # (1,2,3...)

program input data sheets.
ed, dated, and sealed by a qualified o 0.3 seconds on normal power and
gram input data sheets. ed professional engineer. al of the distribution se delay in or preliminary n of devices and
nal requirements as provided. See
vision, and finish for each type and
ith report numbers and rated ptable to authorities having
and compliance with
ce. restraints complying with signed and sealed by the qualified
aused by equipment weight, mic and wind restraints and for
required for equipment s for equipment mounted
seismic restraints. Include
ments of restraints to the ons, methods, and spacings. s and values of forces sociation with vibration
with wind-restraint details ements in other Sections for
acceptable to sutherities

## ABBREVIATIONS

	ABBREV	<u>IAT</u>
	NOTE: ALL ABBREVIAT	-
1P 1PH	SINGLE POLE SINGLE-PHASE	I/O IG
1WAY 2/C	ONE-WAY TWO-CONDUCTOR	IMC
2WAY 3/C	TWO-WAY THREE-CONDUCTOR	IN/IS IR
3WAY 4OUT		J-BOX
	OUTLET	kVA
	FOUR-POLE DOUBLE THROW FOUR-POLE SINGLE THROW	kVAR
4W 4WAY	FOUR-WIRE FOUR-WAY	kW kWh
	ABOVE COUNTER ARMORED CABLE	LED LFMC
ADA	AMERICANS WITH DISABILITIES ACT	LFNC
ADJ AFF	ADJACENT ABOVE FINISHED FLOOR	LPS
AFG AIC	ABOVE FINISHED GRADE AMPERE INTERRUPTING	LRA LTG
ALUM	CAPACITY ALUMINUM	LV MATV
AMP ANN	AMPERE ANNUNCIATOR	MAX
AP	ACCESS POINT (WIRELESS DATA)	MC MCA
AR ASC	AS REQUIRED AMPS SHORT CIRCUIT	MCB MCC
ATS	AUTOMATIC TRANSFER SWITCH	MCP
AV AWG	AUDIO VISUAL AMERICAN WIRE GAGE	MDP MG
BB XFMR	BUCK-BOOST TRANSFORMER	MH MIN
C CATV	CEILING MOUNTED COMMUNITY ANTENNA	MLO MOCP
СВ	TELEVISION CIRCUIT BREAKER	NA
ССВА	CUSTOM COLOR AS SELECTED BY ARCHITECT	NC NEC
CCTV	CLOSED CIRCUIT TELEVISION	NEMA
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	NFC NFPA
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	NIC
CKT CM	CIRCUIT CONSTRUCTION MANAGER	NL NO
CND CO	CONDUIT CONVENIENCE OUTLET	NTS OC
COR	CONTRACTING OFFICER'S REPRESENTATIVE	OCP
CP CT	CONTROL PANEL CURRENT TRANSFORMER	OF/CI
CTV CU	CABLE TELEVISION COPPER	OF/OI
dBA DPDT	UNIT OF SOUND LEVEL DOUBLE POLE, DOUBLE	OFP OH DF
DS	THROW DISCONNECT SWITCH	OL PB
EA EM	EACH EMERGENCY	PF PH
EMT	ELECTRICAL METALLIC TUBING	PNL PT
ENT	ELECTRIC NONMETALLIC TUBING	PTZ QTY
EPO EQUIP	EMERGENCY POWER OFF EQUIPMENT	R
EX F	EXISTING FURNITURE MOUNTED	RMC
FA FCP	FIRE ALARM FIRE ALARM CONTROL	RNC RPM
FLA	PANEL FULL LOAD AMPS	RR S/S
FMC FOB	FLEXIBLE METAL CONDUIT FREIGHT ON BOARD	SCA SCBA
FVNR	FULL VOLTAGE NON-REVERSING	SF
FVR G	FULL VOLTAGE REVERSING GROUND	SFBA
GEN GFCI	GENERATOR GROUND FAULT	SPDT
GFP	INTERRUPTER GROUND FAULT	SPEC SPST
HD	PROTECTION HEAVY DUTY	ST
HID HOA	HIGH INTENSITY DISCHARGE	SWBD SWGR
HP	HORSE POWER HIGH POWER FACTOR	TL TP
HPS	HIGH PRESSURE SODIUM HIGH VOLTAGE	TP TTB
HZ	HERTZ	TV
		UF
		UGND UPS
		V VA
		VA VFC/V D
1		

ATI	ONS
ONS MAY	NOT BE USED.
I/O	INPUT/ OUTPUT
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IN/IS	INSULATED/ ISOLATED
IR J-BOX	INFRARED JUNCTION BOX
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kvar	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWh LED	KILOWATT HOUR
	LIQUID TIGHT FLEXIBLE
	METAL CONDUIT LIQUID TIGHT FLEXIBLE
LFNC	NONMETALLIC CONDUIT
LPS	LOW PRESSURE SODIUM
LRA LTG	LOCKED ROTOR AMPS
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	
MCA MCB	MINIMUM CIRCUIT AMPS MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION
MDP	MAIN DISTRIBUTION PANEL
MG	MOTOR GENERATOR
MH MIN	MANHOLE MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIOANL ELECTRICAL
	MANUFACTURERS ASSOCIATION
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL NO	NIGHT LIGHT NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OCP	OVER CURRENT PROTECTION
OF/CI	OWNER FURNISHED/
OF/OI	CONTRACTOR INSTALLED OWNER FURNISHED/ OWNER
	INSTALLED
OFP OH DR	OBTAIN FROM PLANS OVERHEAD (COILING) DOOR
OL	OVERLOAD
PB	
PF PH	POWER FACTOR PHASE
PNL	PANEL
PT PTZ	POTENTIAL TRANSFORMER PAN/TILT/ZOOM
QTY	QUANTITY
R	REMOVE
RCP RMC	REFLECTED CEILING PLAN RIGID METAL CONDUIT
RNC	RIGID NONMETAL CONDUIT
RPM	REVOLUTIONS PER MINUTE
RR S/S	REMOVE AND RELOCATE START/STOP
SCA	SHORT CIRCUIT AMPS
SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
SF	SQUARE FOOT (FEET)
SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
SPDT	SINGLE POLE, DOUBLE
SPEC	THROW SPECIFICATION
SPST	SINGLE POLE, SINGLE
ST	THROW SINGLE THROW
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TL TP	TWIST LOCK TELEPHONE POLE
TP	TWISTED PAIR
ТТВ	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP	TYPICAL
UF	UNDERFLOOR
UGND UPS	UNDERGROUND UNINTERRUPTIBLE POWER
-	SUPPLY
V VA	VOLTS VOLT AMPERE
VA VFC/VF	VARIABLE FREQUENCY
D W/	MOTOR CONTROLLER
W/O	WITH WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER

#### DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESEN NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS O IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRA DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDU "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFE LIMITATION ON LOCATION IS INTENDED.

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

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

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

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

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

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

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

THIS SHEET SET IS CONTRACTUALLY REQUI **DIFFERENTIATING FEATURES THAT ARE DE** FAILURE TO PRINT THIS SHEET SET IN COLOR MAY RESULT IN

	GENERAL ELECTRICAL NOTES	
	GENERAL ELECTRICAL NOTES	
D. ENTATIONS, OR SCHEDULES TRACT DULED", AND EFERENCE, NO	1. 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	blu line designs
THE ENGINEER", ON WITH THE ATIONS, AND BILITIES AS ELIVER TO THE NSTALLATION,	<ul> <li>INTENT OF THE DOCUMENTS SHALL BE ENFORCED.</li> <li>2. 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.</li> <li>A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER</li> </ul>	8719 S. Sandy Parkway Sandy, UT 84070 p 801.679.3157 OWNER: LAYTON CITY 437 N WASATCH DR, LAYTON, UT 84041
AT PROJECT SITE ECTION, PLACING, ING, PROTECTING, , COMPLETE AND NGAGED BY THE	<ul> <li>FURNISHED THE MATERIALS OR EQUIPMENT.</li> <li>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.</li> </ul>	CONTACT: JOELLEN GRANDY PH: 801-336-3926
UB- RUCTION ACTIVITY, DPERATIONS. DNS THEY ARE SED TO DESCRIBE IAL SYSTEMS". ALL SYSTEMS ID SYSTEMS,	C. 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.	
TA CABLING	3. 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.	
	4. 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.	လ
	5. 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.	
	7 TAKE OFF QUANTITIES SHOWN IN SCHEDULE(S) ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OF THE DEVICES, FIXTURES, EQUIPMENT, RACEWAYS, CONDUCTORS, CABLING, ETC. SHOWN AND SPECIFIED IN THE CONTRACT DOCUMENTS INCLUDING THE EXTRA MATERIAL SPECIFIED.	SOVEI
	ELECTRICAL SHEET	MPR(
	EE001       ELEC COVER SHEET         ES101       ELECTRICAL SITE PLAN         ES505       SITE JUNCTION BOX DETAILS	

<b>NOTE TO CONTRACTORS:</b>
<b>RED TO BE PRINTED IN COLOR. THERE ARE</b>
SIGNATED THROUGHOUT BY THEIR COLOR.
A MISINTERPRETATION OF THE DRAWINGS.

ES601 ONE-LINE DIAGRAM

ES602 EXTERIOR LIGHTING FIXTURE SCHEDULE

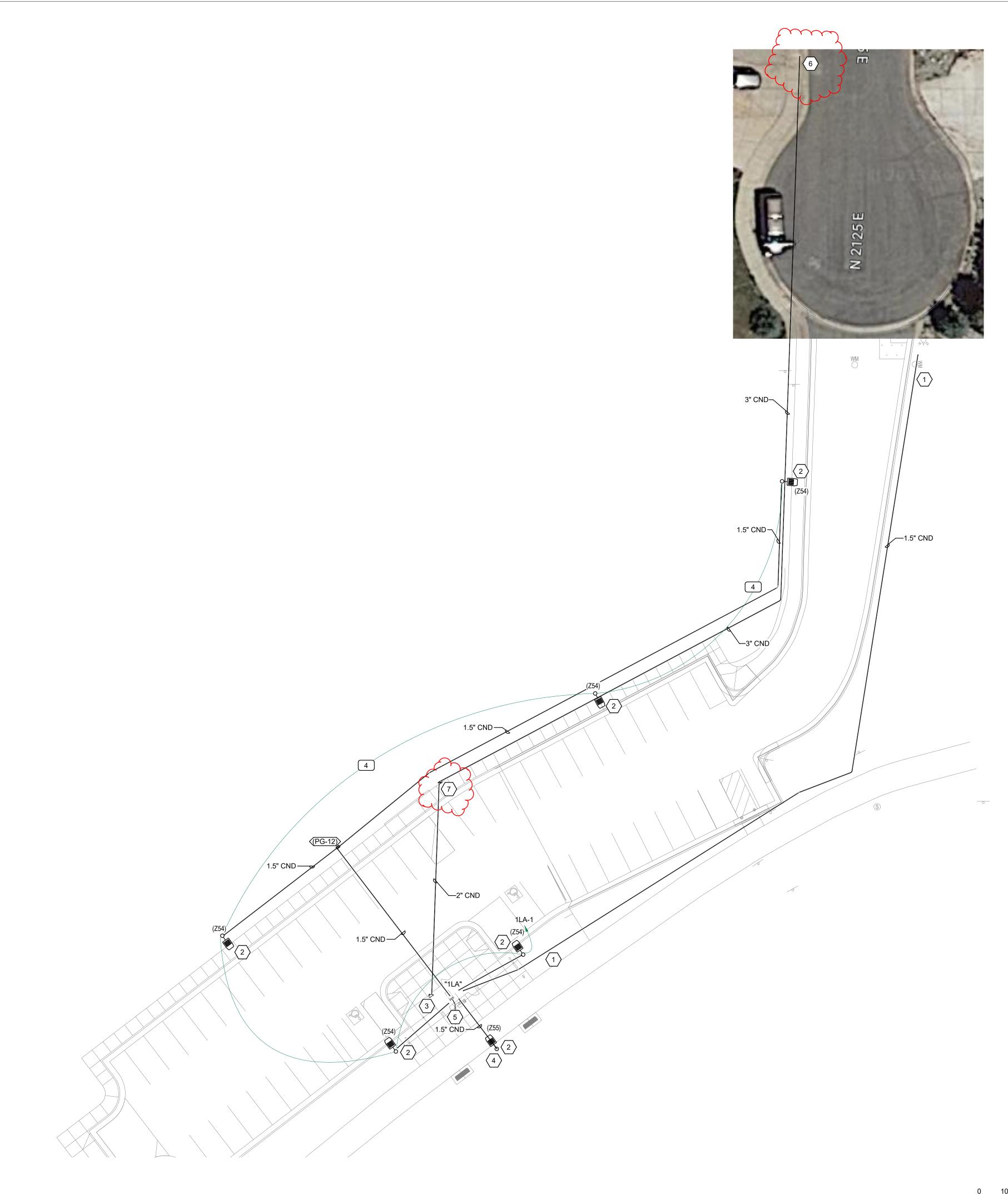
ES508 ELECTRICAL SITE LIGHTING DETAILS AND SCHEDULES



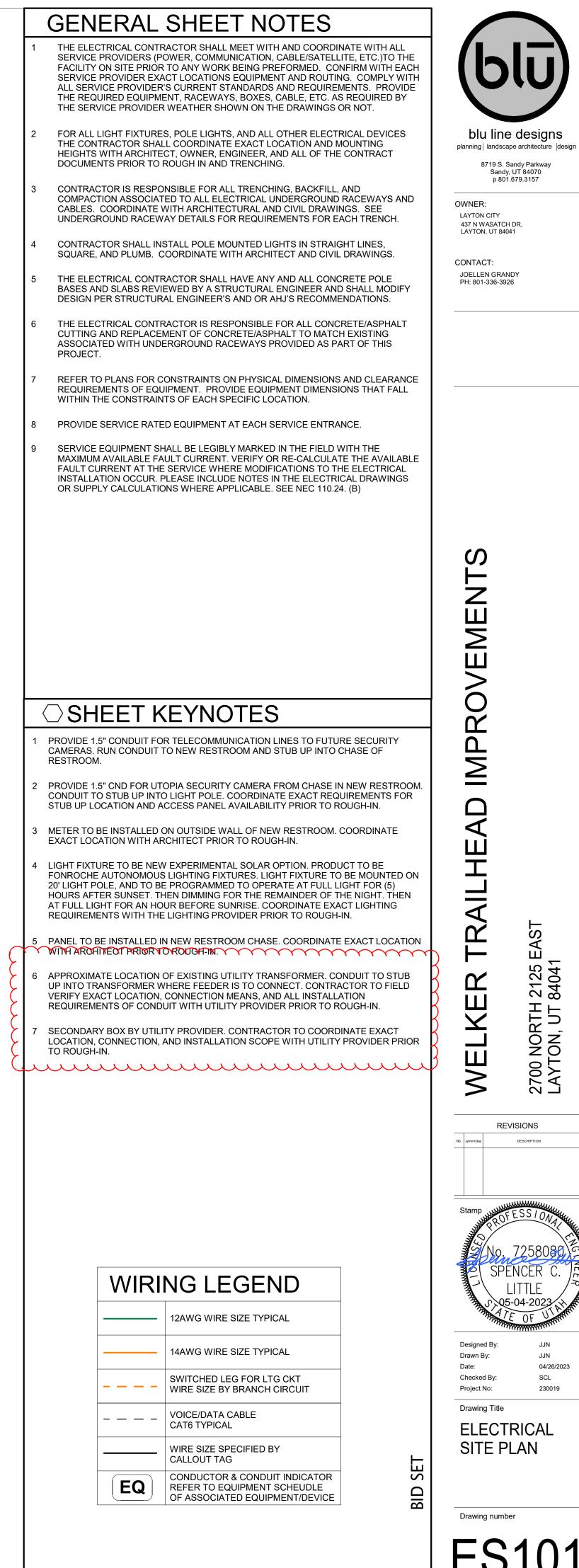
SET

BID

 $\square$ 

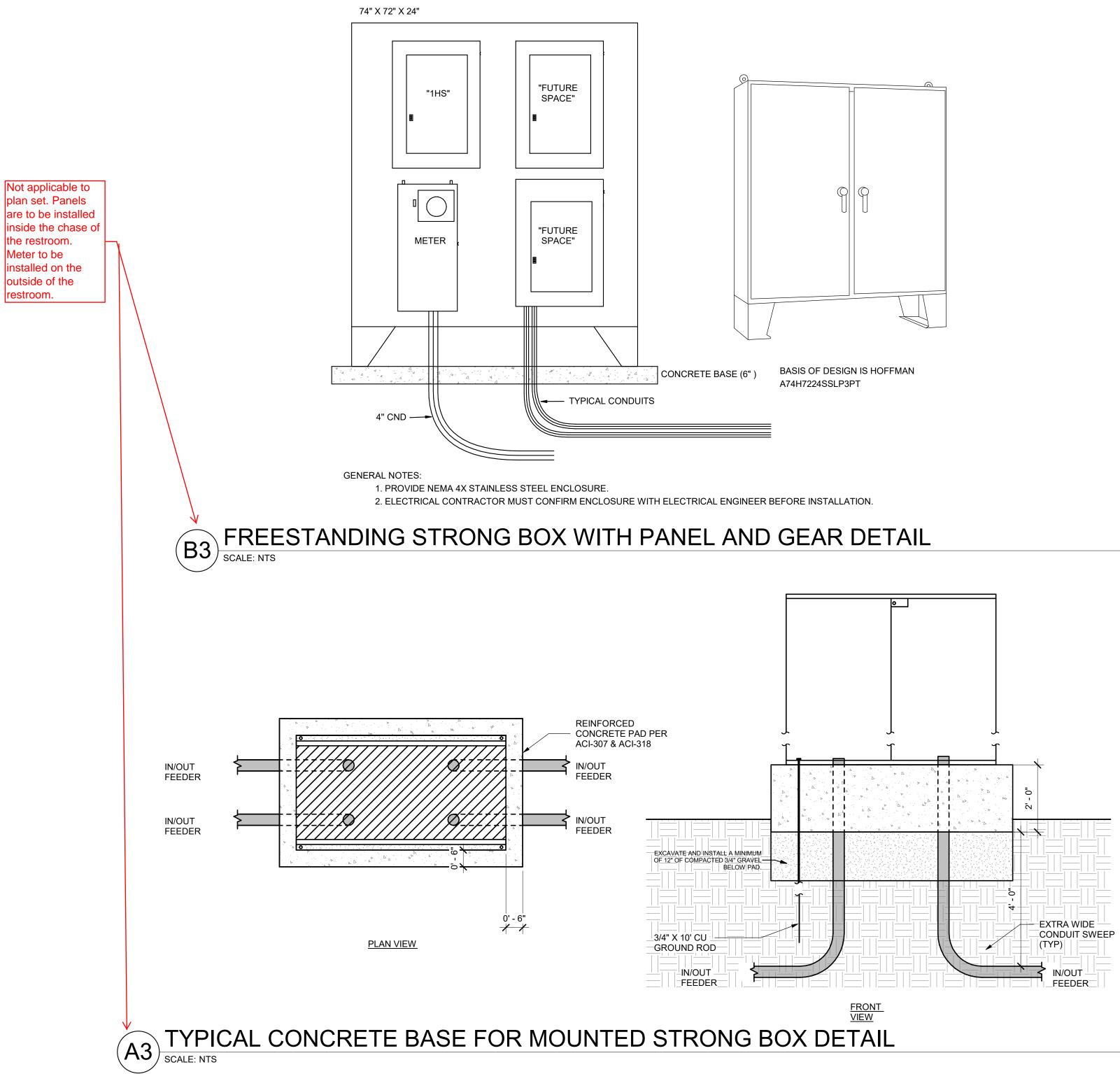






**ES101** 





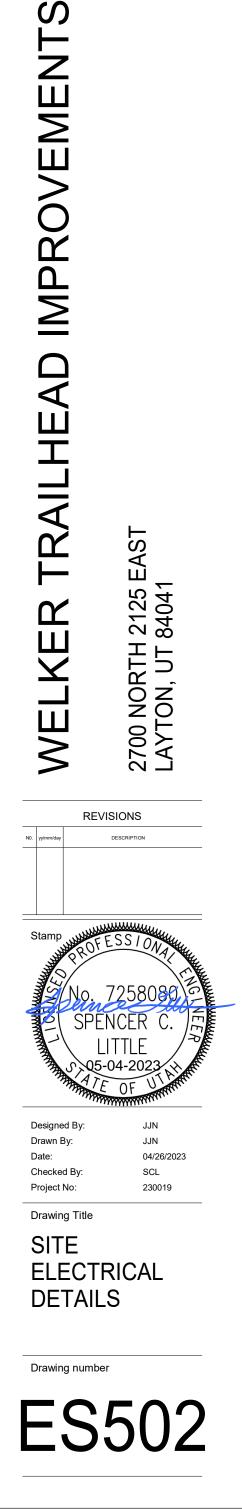


8719 S. Sandy Parkway Sandy, UT 84070 p 801.679.3157

OWNER: LAYTON CITY 437 N WASATCH DR, LAYTON, UT 84041

-

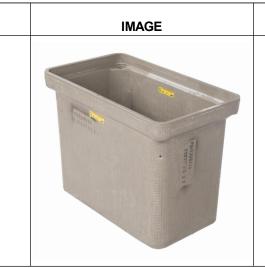
CONTACT: JOELLEN GRANDY PH: 801-336-3926



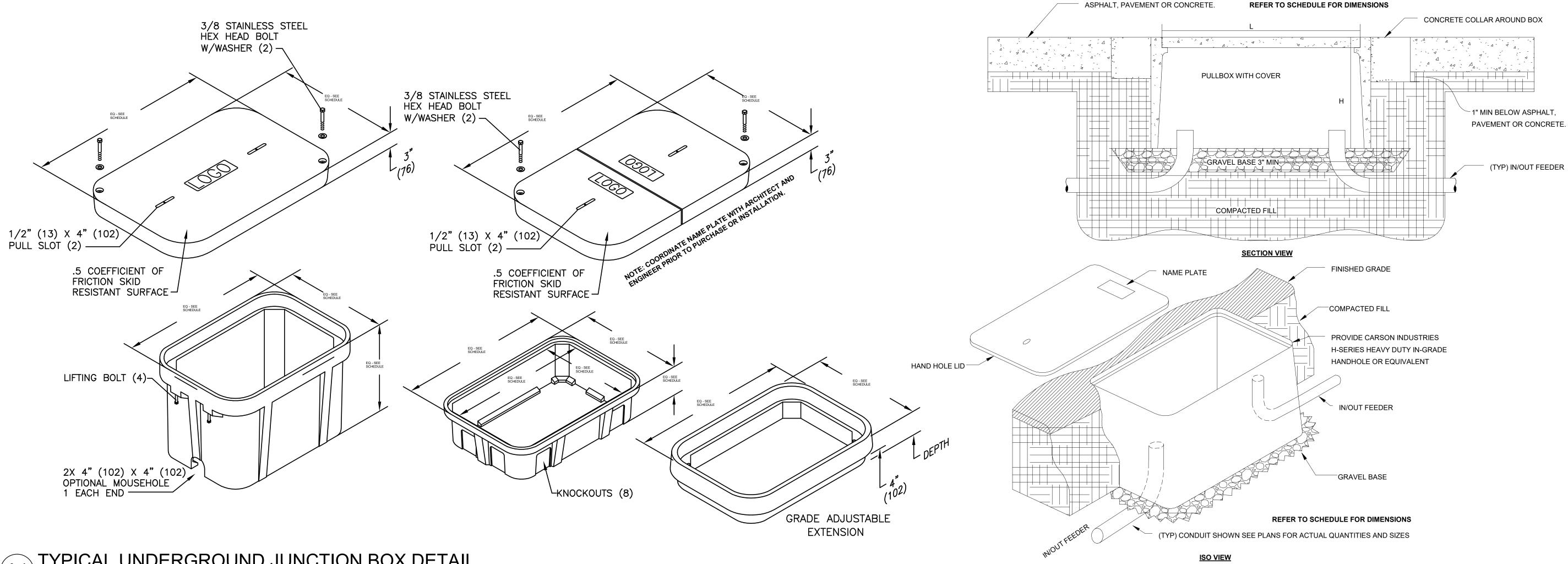
SET

BID

APPLICATION TIERS	TYPE	DESCRIPTION	BOX OPTIONS	DESCRIPTION	COVER OPTIONS	DESCRIPTION	SYMBOLS LEGEND		FIXTURE STYLES
LIGHT DUTY	VERTICAL	PEDESTRIAN TRAFFIC ONLY.	ВА	BOX WITH OPEN BOTTOM	CA	BOLT DOWN COVER	PG-34 PG-22 PG-23 PG-22	STYLE	DESCRIPTION IMAGES
	VEITTOXE		BB	BOX WITH MOUSE HOLES	WA	STANDARD WITH NO BOLTS		NAME	STRAIGHT SIDES ALLOW FOR EASY ASJUSTMENT OF BOX SHOULD
TIER 5	VERTICAL	SIDEWALK APPLICATIONS WITH A SAFTEY	BC	DIVIDED BOX	LR	CAST IRON 6 4-1/2" X 7-1/2" LID	PG-12	PG	THE GRADE LEVEL CHANGE. USED FOR A VARIETY OF PURPOSES, SUCH AS A SPLICE BOX, PULL BOX, EQUIPMENT ENCLOSURE, OR FOR ANY APPLICATION REQUIRING EASY ACCESS TO AN UNDERGROUND SERVICE. PG BOXES ARE STACKABLE FOR INCREASED DEPTH.
HER S	LATERAL	FACTOR FOR OCCCASIONAL ACCIDENTAL VEHICULAR TRAFFIC.	BG	GASKETED BOX WITH OPEN BOTTOM	LP	CAST IRON 6"X12" LID	NOTES: 1. CONTRACTOR SHALL PROVIDE A SUBMITTAL ON ALL	PC	STRAIGHT SIDES ALLOW FOR EASY ASJUSTMENT OF BOX SHOULD THE GRADE LEVEL CHANGE. ALL PC BOXES ARE STACKABLE AND ARE AVAILABLE WITH GASKETING.
	VERTICAL	SIDEWALK APPLICATIONS WITH A SAFTEY	DA	BOX WITH SOLID BOTTOM	LQ	CAST IRON 9"X12" LID	UNDERGROUND ENCLOSURES FOR THIS PROJECT. 2. ALL ENCLOSURES SHALL BE UL LISTED		
TIER 8	LATERAL	FACTOR FOR OCCCASIONAL ACCIDENTAL VEHICULAR TRAFFIC.	DG	GASKETED BOX WITH SOLID BOTTOM	LK	POLYMER CONCRETE 6"X9" DROP-IN LID	3. CONTRACTOR SHALL COORDINATE THE TIER RATING WITH CIVIL ENGINEER AND ARCHITECT IN THE	PX	PX STYLES ARE EXCELLENT FOR SERVICE BOX ASSEMBLIES AND OFFER FLARED DESIGN TO PREVENT FROST HEAVE. PX BOXES ARE ALSO NESTABLE FOR COMPACT STORAGE.
	VERTICAL	DRIEVEWAY, PARKING LOT, AND OFF ROAD	JA	FOOTED BOX	LL	POLYMER CONCRETE 7" X 13" DROP-IN LID	SUBMITTAL PROCESS. 4. CONTRACTOR SHALL ADJUST THE SIZE OF THE		THE FLARED DESIGN PREVENTS FROST HEAVE AND COVERS ARE
TIER 15	LATERAL	APPLICATIONS SUBJECT TO OCCASIONAL NON-DELIBERATE VEHICULAR TRAFFIC.	EA	EXTENSION	LS	THROUGH SLOT (NO METER LID)	ENCLOSURE AS REQUIRED FOR INSTALLATION. SUBMIT AN RFI OR PROVIDE SOME OTHER DOCUMENTATION SO THAT THE DESIGN TEAM AND OWNER UNDERSTAND	РТ	INTERCHANGABLE WITH MANY PRECAST CONCRETE PARTS. PT BOXES ARE ALSO NESTABLE FOR COMPACT STORAGE.
TIER 22	VERTICAL	DRIVEWAY, PARKING LOT, AND OFF ROAD APPLICATIONS SUBJECT TO	RA	SOLID BASE EXTENSION	02	OPENS UNDER 90°	THAT THE DESIGN TEAM AND OWNER UNDERSTAND THIS MODIFICATION PRIOR TO MOVING FORWARD WITH ADJUSTED SIZE OF ENCLOSURE.		THESE ENCLOSURES FEATURE A 1 DEGREE FLARE FOR MAXIMUM STRENGTH. FLARED DESIGN OPTIMIZES INTERNAL VOLUME AND
	LATERAL	NON-DELIBERATE HEAVY VEHICULAR TRAFFIC.			00	USED WITH DROP-IN LID	5. PROVIDE BASIS OF DESIGN (BOD) ENCLOSURE OR PRE-APPROVED EQUAL.	PD	MINIMIZES FROST HEAVE.





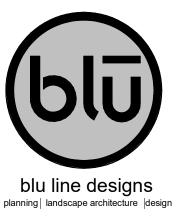


(A1) TYPICAL UNDERGROUND JUNCTION BOX DETAIL

#### UNDER GROUND ENCLOSURE SCHEDULE

BOX DESCRIPTION	LENGTH	WIDTH	DEPTH	ABOVE GRADE HEIGHT	BASIS OF DESIGN MANUFACTURE PART NO.	BOX OPTIONS	COVER LOGO	COVER OPTIONS	STYLE	TRAFFIC TIER NO.
UNDERGROUND ENCLOSURE; PRECAST POLYMER CONCRETE WITH REINFORCED WITH FIBER GLASS. PROVIDE WITH BOLT ON COVER.	0' - 11"	1' - 6"	1' - 6"	INSTALL FLUSH WITH GRADE	QUAZITE (PG1324-18)	BA - BOX WITH OPEN BOTTOM	"ELECTRICAL"	WITH TWO BOLTS AND A SINGLE LOGO	PG	TIER 15



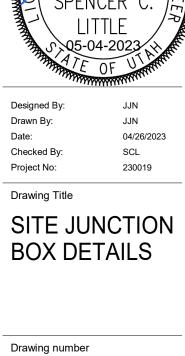


8719 S. Sandy Parkway Sandy, UT 84070 p 801.679.3157

OWNER: LAYTON CITY 437 N WASATCH DR, LAYTON, UT 84041

CONTACT: JOELLEN GRANDY PH: 801-336-3926

**IMPROVEMENTS** AD TRAILHE 2700 NORTH 2125 EAST LAYTON, UT 84041 WELKER REVISIONS N0. yy/mm/day DESCRIPTION Stam SPENCER



ES505

SET

BID

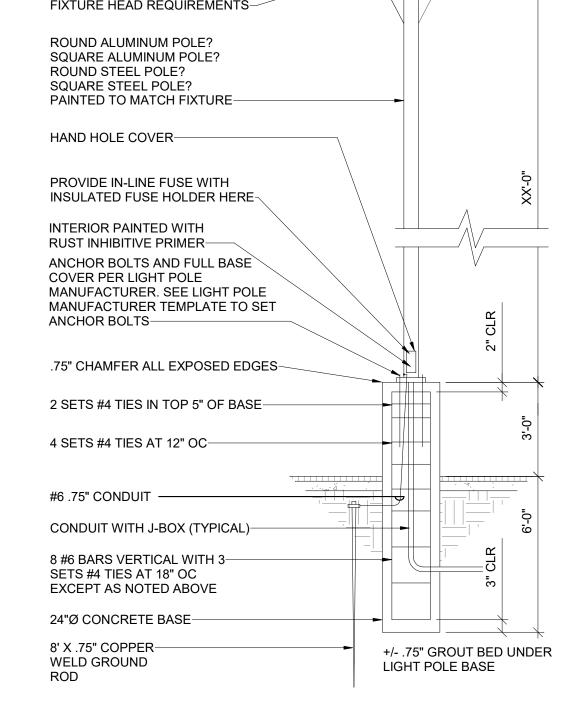
LEGEN
Xx
WIND SPEED (mph)
120
120
120
120
120
120
120
120
120
120
120
120
120
120
120
NOTE: 1. CONTRA
2. SCHEDL
3. EXCEED
4. TOP SO

2



## TYPICAL LIGHT POLE FOOTING SCHEDULE

#### PARKING LOT LIGHT POLE BASE DETAIL SCALE: NTS



# AFTER CONCRETE HAS CURED A MINIMUM OF 7 DAYS **GRADE ELEVATION**— TOP SOIL 3" COVER MIN-CONCRETE PIER AUGURED AGAINST UNDISTURBED SOIL. NOTE THAT FOR GRAVEL SOILS OR HIGH WATER TABLES STEEL CASING MAY BE REQUIRED VERTICAL BARS SPACED-EQUAL, SEE SCHEDULE

SONOTUBE OR EQUAL, TO----MATCH FOOTING DIAMETER. SONOTUBE SHALL BE REMOVED

3/4" CHAMFERED EDGE-----

(MIN)

TOP OF PIER SHALL SLOPE AWAY-FROM BASE PLATE 1/8 PER FT

PER MANUFACTURER. INSIDE SHALL BE PAINTED WITH RUST INHIBITIVE PRIMER

HAND COVER, CONNECTION-

PAINT POLE TO MATCH-FIXTURE HEAD

SEE FIXTURE SCHEDULE— FOR HEAD REQUIREMENTS

A. 3000 PSI **B. TYPE II PORTLAND CEMENT** C. WATER TO CEMENT RATIO = 0.5% D. AIR ENTRAINMENT = 5% E. MAX AGGREGATE SIZE= 1" F. CONCRETE EXPOSURE CLASS= F2, S0, C1 G. 4" SLUMP BEFORE ADDITION OF PLASTICIZER

SEE FIXTURE SCHEDULE FOR

5. SECTION VIEW IS FOR VISUAL REPRESENTATION ONLY. VERIFY BAR QUANTITY WITH SCHEDULE60,000 PSI REBAR YIELD STRENGTH 6. CONCRETE MIX SHALL BE FOR EXTERIOR CONCRETE SUBJECT TO FREEZE THAW CONATIONS WITH THE MINIMUM PROPERTIES.

4. TOP SOIL SHALL NOT BE USED TO RESIST LATERAL LOAD IN FOOTING. THE EMBED DEPTH IN THE TABLE SHALL BE BEGIN BELOW THE BASE OF THE TOP SOIL AS SHOWN IN THE ELEVATION.

EEDS THE MAXIMUM BEARING CAPACITY OF 1500 PSF. VERIFY ALLOWABLE SOIL BEARING WITH SOILS REPORT.

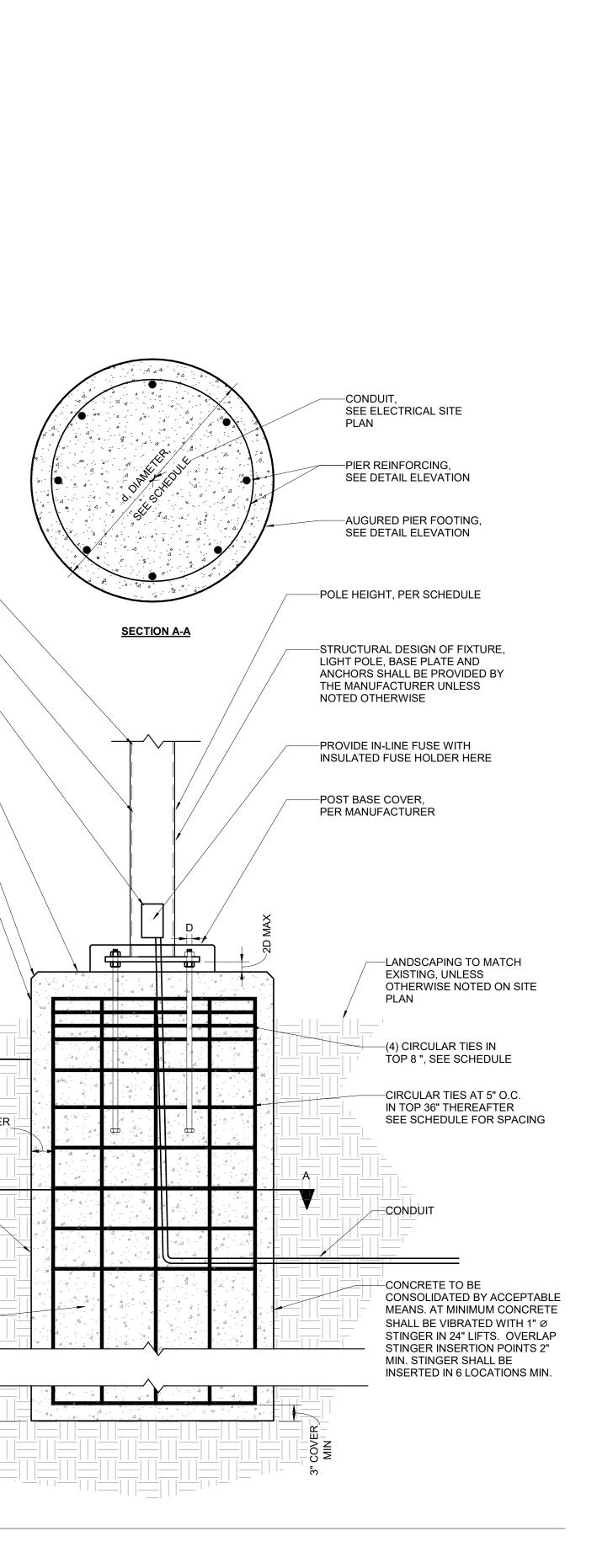
TRACTOR SHALL SUBMIT DEFERRED SUBMITTAL FOR LIGHT POST FOOTING TO ENGINEER OF RECORD. SCHEDULE ABOVE IS FOR BIDDING PURPOSES ONLY. EDULE ABOVE ASSUMES CLAY OR SILT SOIL CONDITIONS WITH SEISMIC CLASS D AND DEFAULT SOIL PARAMETERS FROM IBC SECTION 1806.2

2	15	8	18	5'-0"	#5	5	#4	12" O.C.
2	10	8	18	4'-6"	#5	5	#4	12" O.C.
2	30 <sup>3</sup>	6	16	-	-	-	-	-
2	25 <sup>3</sup>	6	16	-	-	-	-	-
2	20	6	16	6'-6"	#5	4	#4	12" O.C.
2	15	6	16	5'-6"	#5	4	#4	12" O.C.
2	10	6	16	4'-6"	#5	4	#4	12" O.C.
	1		1		1			

у – N	-Sl	JPERSCRIPT, SEE ORRESPONDING N	IOTE							
) D )	MAX EPA (FT <sup>2</sup> )	LIGHT POLE HEIGHT (ft)	LIGHT POLE DIA (in) max	FOOTING DIAMETER,d (in)	h=MIN FOUNDATION <sup>2</sup> EMBED. (ft)	VERTICAL REINF. BAR SIZE	VERTICAL BAR QUANTITY	CIRC.TIE BAR SIZE	CIRC. TIE SPACING (in)	
	2	30	8	24	7'-6"	#5	8	#4	12" O.C.	
	2	25	8	24	6'-6"	#5	8	#4	12" O.C.	
	2	20	8	24	6'-0 "	#5	8	#4	12" O.C.	
	2	15	8	24	5'-0"	#5	8	#4	12" O.C.	
	2	10	8	24	4'-6"	#5	8	#4	12" O.C.	
	2	30 <sup>3</sup>	8	18	-	-	-	-	-	
	2	25 <sup>3</sup>	8	18	-	-	-	-	-	
	2	20	8	18	6'-0"	#5	5	#4	12" O.C.	
	2	15	8	18	5'-0"	#5	5	#4	12" O.C.	
	2	10	8	18	4'-6"	#5	5	#4	12" O.C.	
	2	30 <sup>3</sup>	6	16	-	-	-	-	-	
	2	25 <sup>3</sup>	6	16	-	-	-	-	-	
	2	20	6	16	6'-6"	#5	4	#4	12" O.C.	
	2	15	6	16	5'-6"	#5	4	#4	12" O.C.	

# LIGHT POLE PIER FOOTING SCHEDULE<sup>1</sup>

BEND





8719 S. Sandy Parkway Sandy, UT 84070 p 801.679.3157

OWNER: LAYTON CITY 437 N WASATCH DR. LAYTON, UT 84041

CONTACT: JOELLEN GRANDY PH: 801-336-3926

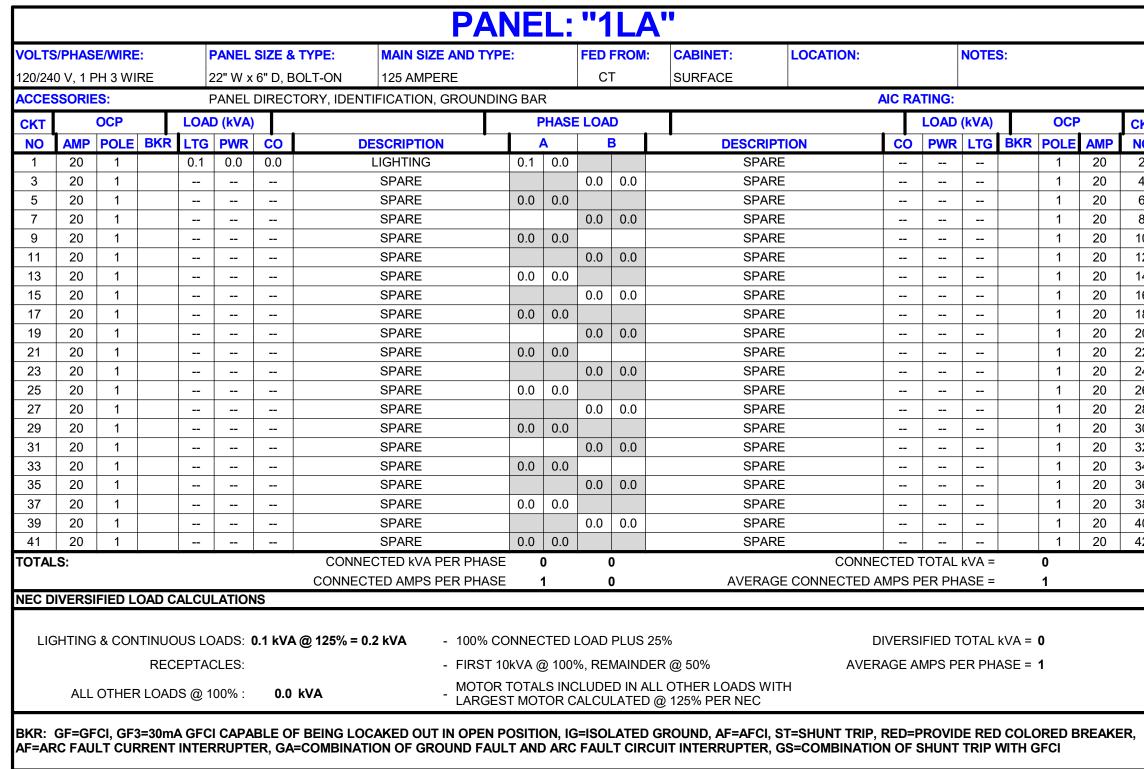
S

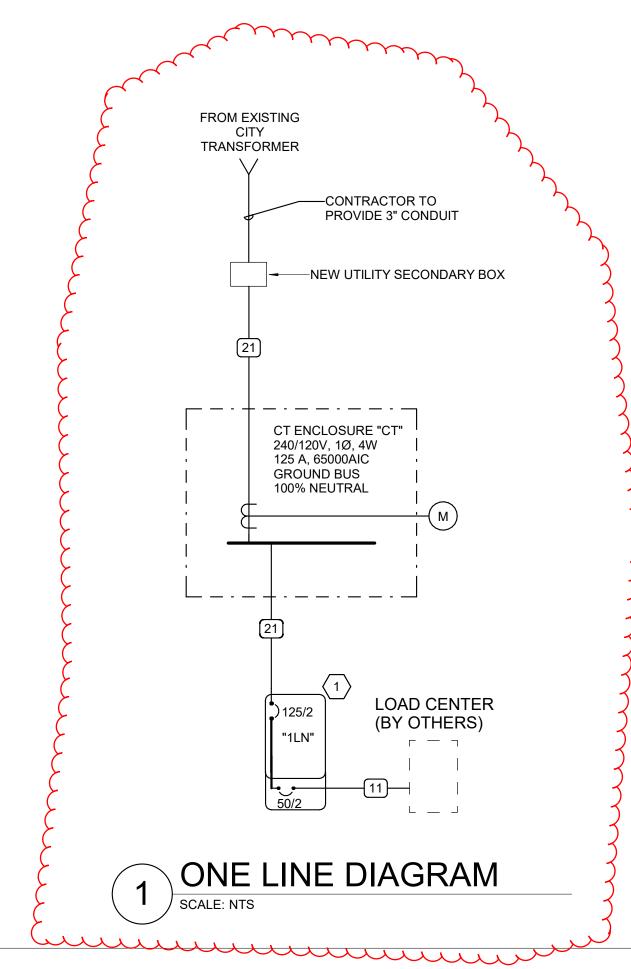


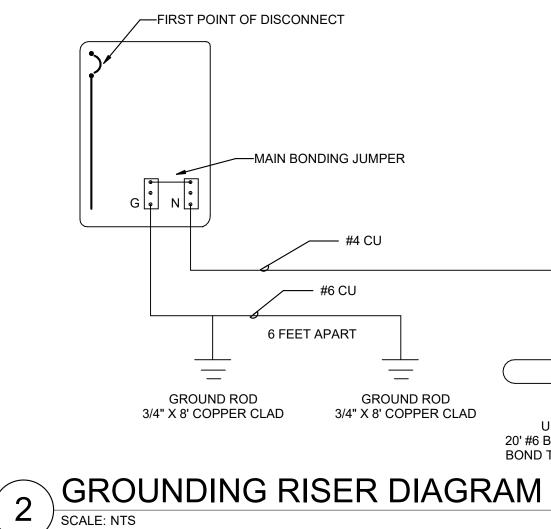


SET

BID







	NOTES	S:			
G:					
AD	(kVA)		OCP		СКТ
NR	LTG	BKR	POLE	AMP	NO
			1	20	2
			1	20	4
			1	20	6
			1	20	8
			1	20	10
			1	20	12
			1	20	14
			1	20	16
			1	20	18
			1	20	20
			1	20	22
			1	20	24
			1	20	26
			1	20	28
			1	20	30
			1	20	32
			1	20	34
			1	20	36
			1	20	38
			1	20	40
			1	20	42
AL	kVA =		0		
PH/	ASE =		1		

EQUI	PMENT NAMEP SCHEDULE	LAT	E		C			PER CONDU ONDUIT SC					
EQUIPMENT ID SCHEME	FIRST DIGIT - BUILDING LEVEL (0, 1 SECOND DIGIT - PANEL TYPE M - MECHANICAL	, 2, ETC)	**		SCHE	DULE NUMI CRIPT (NOT	BER						
	H - (277/480) L - (120/208)					НН	CONDUIT	CONDU	JCTOR (I	TON			
	E - EMERGENCY			SYM	AMP	AMPS		QTY	SIZE 12	$\square$			
	S - STANDBY Q - EQUIPMENT			1 2	20 20	-	.75	2 3	12	-			
	U - UPS			3	20	24	.75	4	12				
	K - KITCHEN (120/208) THIRD DIGIT - BUILDING AREA (A, B			4	30 30	-	.75 .75	2	10 10	-			
	FOURTH DIGIT - SEQUENCE # (1,2,3,	,		6	30	32	.75	4	10				
LABEL FORMAT	[NAME]			78	40 40	-	1	2	8 8	-			
	[SYSTEM] [VOLTAGE]			9	40	44	1	4	8	-			
	[FED FROM]			10	55	-	1	2	6				
	[SOURSE(S)	-		11 12	55 55	- 60	1 1.25	3	6 6	+			
LABEL EXAMPLE	PANEL "4LA1 STANDBY POW		13	70	-	1	2	4					
	120/208V FED FROM			14 15	70 70	- 76	1.25 1.25	3 4	4	-			
	BUS-A / XFMR	4TA		16	85	-	1.25	2	3				
BUSWAY	LABEL BUSWAY EVERY 6' WHERE EX		VIEW AND	17 (18)	85 85	-	1.25	3	3	-			
	EVERY 15' WHERE NOT EXPOSED TO	VIEW		(19)	95	92	1.25 1.25	3	2	+			
OTHER			20	95	104	1.50	4	2					
				21 22	130 130	- 116	1.50 1.50	3 4	1	+			
(	COLOR SCHEM	_		23	150	-	2	3	1/0				
				24) 25)	150 175	136	2	4	1/0 2/0	-			
		NAMEPL	ATE COLOR	26	175	- 156	2	4	2/0	+			
SYSTEM	EQUIPMENT	TEXT	BACKGROUND	27	200	-	2	3	3/0	_			
NORMAL POWER	ALL GEAR NOT INCLUDED BELOW	WHITE	BLACK	28 29	200 230	180	2.50 2.50	4	3/0 4/0	-			
				30	230	208	2.50	4	4/0				
STANDBY POWER	MDPS1 AND ALL DOWNSTREAM GEA	R, WHITE	ORANGE	31 32	255 255	- 232	2.50 2.50	3	250 250	-			
	EXCEPT UPS GEAR AS NOTED			33	310	-	2.50	3	350	$\vdash$			
EMERGENCY POWER	GDP1, GDP2, ATS-E AND ALL	WHITE	RED	34	310	280	3	4	350				
	DOWNSTREAM GEAR			35 36	380 380	- 344	3.50 4	3	500 500	+			
LEGALLY-REQUIRED	ATS-S AND ALL DOWNSTREAM	RED	WHITE	37	400	-	2 EA 2	3	3/0				
STANDBY POWER	GEAR			38 39	400 510	360	2 EA 2.50 2 EA 2.50	4	3/0 250	-			
UPS "A" POWER	UPSA AND ALL DOWNSTREAM	WHITE	BLUE	40	510	464	2 EA 3	4	250	-			
	GEAR			41	620	-	2 EA 3	3	350				
UPS "B" POWER	UPSB AND ALL DOWNSTREAM	BLACK	YELLOW	42 43	620 760	560 -	2 EA 3 2 EA 3.50	4	350 500	+			
	GEAR			44	760	688	2 EA 4	4	500	-			
				45	855	-	3 EA 3	3	300 300				
					855	768	3 = 4 3			1 1			
BRANC	H CIRUIT COND	UCT	OR	46 47	855 1000	768 -	3 EA 3 3 EA 3.50	3	400				
_			_	46 47 48	1000 1000	- 912	3 EA 3.50 3 EA 3.50	3 4	400 400				
AND C	ONDUIT SIZING	TAE	_	46 47 48 49	1000	-	3 EA 3.50	3	400				
_			_	46 47 48 49 50 51	1000 1000 1140 1140 1240	- 912 - 1032 -	3 EA 3.50 3 EA 3.50 3 EA 4 3 EA 4 4 EA 3	3 4 3 4 3	400 400 500 500 350				
	ONDUIT SIZING		BLE	40 47 48 99 50 50 50 50 50 50 50 50 50 50 50 50 50	1000 1000 1140 1140 1240 1240	- 912 - 1032 - 1120	3 EA 3.50 3 EA 3.50 3 EA 4 3 EA 4 4 EA 3 4 EA 3	3 4 3 4 3 4 3 4	400 400 500 350 350				
CIRCUIT MPACITY/VOLTAGE 20A/120V	ONDUIT SIZING CIRCUIT LENGTH 0' - 60' CONDUCTOR S (PHASE, NEUTRAL) #12 AWG		CONDUIT SIZE	46 47 48 49 50 51	1000 1000 1140 1140 1240	- 912 - 1032 -	3 EA 3.50 3 EA 3.50 3 EA 4 3 EA 4 4 EA 3	3 4 3 4 3	400 400 500 500 350				
CIRCUIT AMPACITY/VOLTAGE 20A/120V 20A/120V 20A/120V 20A/120V 20A/120V 20A/120V 20A/277V 20A/277V	CIRCUIT LENGTH         CONDUCTOR S (PHASE, NEUTRAL)           0' - 60'         #12 AWG           0' - 60'         #10 AWG           95' - 150'         #8 AWG           150' - 240'         #6 AWG           0' - 140'         #12 AWG           140' - 220'         #10 AWG		BLE <u>conduit size</u> 0.75" Ø 0.75" Ø 1.25" Ø 0.75" Ø 0.75" Ø	46 47 49 50 51 52 53 54 55 53 54 55	1000 1000 1140 1240 1240 1675 2010 2660	- 912 - 1032 - 1120 1520 1824 2408	3 EA 3.50 3 EA 3.50 3 EA 4 3 EA 4 4 EA 3 4 EA 3 5 EA 4 6 EA 4 7 EA 4	3 4 3 4 3 4 4 4 4 4	400 400 500 350 350 400 400 500	3			
CIRCUIT AMPACITY/VOLTAGE 20A/120V 20A/120V 20A/120V 20A/120V 20A/120V 20A/120V 20A/120V	CONDUIT SIZING           CIRCUIT LENGTH         CONDUCTOR S (PHASE, NEUTRAL)           0' - 60'         #12 AWG           60' - 95'         #10 AWG           95' - 150'         #8 AWG           150' - 240'         #6 AWG           0' - 140'         #12 AWG		<b>BLE</b> <u>conduit size</u> 0.75" Ø 0.75" Ø 1" Ø 1.25" Ø 0.75" Ø	49 47 49 10 10 10 10 10 10 10 10 10 10 10 10 10	1000 1000 1140 1140 1240 1240 1675 2010	- 912 - 1032 - 1120 1520 1824 2408 2752	3 EA 3.50 3 EA 3.50 3 EA 4 3 EA 4 4 EA 3 4 EA 3 5 EA 4 6 EA 4 7 EA 4 8 EA 4	3 4 3 4 3 4 4 4 4	400 400 500 350 350 400 400				
CIRCUIT AMPACITY/VOLTAGE 20A/120V 20A/120V 20A/120V 20A/120V 20A/120V 20A/27TV 20A/27TV 20A/27TV 20A/27TV	CIRCUIT LENGTH         CONDUCTOR S (PHASE, NEUTRAL)           0' - 60'         #12 AWG           60' - 95'         #10 AWG           95' - 150'         #8 AWG           150' - 240'         #6 AWG           0' - 140'         #12 AWG           140' - 220'         #10 AWG           220' - 350'         #8 AWG		BLE <u>conduit size</u> 0.75" Ø 0.75" Ø 1.25" Ø 0.75" Ø 0.75" Ø 1.75" Ø 1.75" Ø 1.75" Ø 1.75" Ø	46 47 49 50 51 52 53 54 55 53 54 55	1000 1000 1140 1240 1240 1675 2010 2660 3040	- 912 - 1032 - 1120 1520 1824 2408	3 EA 3.50 3 EA 3.50 3 EA 4 3 EA 4 4 EA 3 4 EA 3 5 EA 4 6 EA 4 7 EA 4	3 4 3 4 3 4 4 4 4 4 4 4 4	400 400 500 350 350 400 400 500 500				

INDICATED VOLATAGE, ASSUMED TO BE 80% LOAD (16A), WITH MAXIMUM VOLTAGE

DROP OF 3% AT THE LOAD.

2. DOWN-SIZE WIRE AT DEVICE/LOAD AS REQUIRED AND TERMINATE CONDUCTORS IN A SAFE AND CODE COMPLIANT MANNER.

3. CONDUIT SIZE IS BASED ON A MAXIMUM OF 3 CIRCUITS PER CONDUIT, EACH WITH A SEPARATE NEUTRAL CONDUCTOR.

CONDUIT AND CONDUCTO CONDUCTORS SHOWN ARE SHOWN FOR EACH CO

IN NOTE 5. ALL CONDUCTORS SHOWN ARE THW PROVIDE EQUIPMENT GROUND CONDUCTORS PE BREAKERS ARE SIZED GREATER THAN AMPERE

PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCI GROUND (G) CONDUCTOR MAY BE DELETED ON SYMBOL SUBSCRIPTS:

"2N": INCLUDE TWO NEUTRAL CONDUCTO FOR PHASED AND NEUTRAL CONDU

"FG" FULL SIZE GROUND, SIZE EQUIPME TO BE SAME SIZE AS THE PHASE CO

"HH": NEUTRAL CURRENTS EXIST DUE TO H LOADS. CURRENT CARRYING CONDU ACCORDINGLY. PROVIDE THE IG/HH

GROUNDING CONDUCTOR. "IG": INCLUDE IG (INSULATED/ISOLATED ( SCHEDULED ALONG WITH THE GRO CONDUCTOR.

"SE": SUBSTITUTE "SE" CONDUCTOR FOR WHICH IS SIZED FOR THE GROUNDIN THE SEPARATELY DERIVED SYSTEM

6. RACEWAY ONLY. CONDUCTORS PROVIDED BY U

— GROUND ROD 3/4" X 8' COPPER CLAD UFER 20' #6 BARE CU & BOND TO REBAR

NI	אור	СТО	RA	ND	GENERAL SHEET NOTES		
		EDI			1 CONTRACTOR IS RESPONSIBLE FOR ALL LINE VOLTAGE AS PART OF THIS PROJECT. PROVIDE LINE VOLTAGE REQUIRED TO ALL SYSTEMS PROVIDED AS PART OF THIS PROJECT. COORDINATE WITH ALL OTHER DISCIPLINES AND		lū)
	(E.C	G.) <u>5</u> IG			<ul> <li>DRAWINGS.</li> <li>2 CONTRACTOR IS RESPONSIBLE FOR ALL DEVICES, GEAR, CABLE, CONDUCTORS, TERMINATIONS, OVERCURRENT PROTECTION DEVICES, AND HEAD END</li> </ul>	6	5
IZE 12 12	NOTE 1) G 12 12	IG/HH 12 12	SE 8 8	NOTES 2 2,3	<ul> <li>EQUIPMENT AS PART OF THIS PROJECT.</li> <li>3 PROVIDE ELECTRICAL CONNECTION TO MOTORIZED DOORS WITH ALL POWER AND CONTROL WIRING PER MANUFACTURES WRITTEN INSTRUCTIONS. COORDINATE OPERATION OF DOORS WITH SECURITY, FIRE, AND SMOKE CONTROL SEQUENCES</li> </ul>	planning   landsca 8719 S. S	e designs ape architecture  desig Sandy Parkway
12 10 10 10	12 10 10 10 10	12 10 10 10 8	8 8 8 8	2,3 2 2 2 2 2 2	<ul> <li>OF OPERATION.</li> <li>4 ELECTRICAL CONDUIT CONNECTIONS MADE TO EXPOSED JUNCTION BOXES ON UNITS SHOULD BE MADE ON THE BOTTOM OF THE BOX. INSTALLATION SHOULD COMPLY WITH LOCAL CODE REQUIREMENTS. THE INSTALLATION SHOULD BE MADE</li> </ul>	p 801 OWNER: LAYTON CITY	/, UT 84070 1.679.3157
8 8 8 6	10 10 10	8 8 8	6 6 6 4	2 2 2	WATERTIGHT. 5 WHERE AN EXTERNAL ELECTRICAL JUNCTION BOX IS NOT USED, WATERTIGHT FITTINGS SHOULD BE USED AT THE PANEL JOINT. IF ELECTRICAL CONDUIT PASSES	437 N WASATCH LAYTON, UT 840 CONTACT:	
6 6 4 4	10 10 8 8	8 8 4 4	4 4 2 2	2 2 2 2 2	<ul> <li>THROUGH A HOLE IN THE PANEL, THAT JOINT SHOULD BE MADE WATERTIGHT.</li> <li>INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEC "NATIONAL ELECTRICAL CODE."</li> </ul>	JOELLEN GRAN PH: 801-336-392	
4 3 3 3	8 8 8 8	4 3 3 3	2 2 2 2	2 2 2 2 2	7 PROVIDE GFCI, HEAVY-DUTY, WEATHER RESISTANT OUTLET WITHIN 25' OF ALL EQUIPMENT. FIELD VERIFY EXISTING CONDITIONS AND PROVIDE ADDITIONAL DEVICE(S) AND CIRCUITING AS REQUIRED.		
2 2 1	8 8 6	2 2 2	2 2 2	2 2 2	<ul> <li>8 ALL EXTERIOR OUTLETS SHALL BE CONTROLLED WITH RELAY TO TRUN POWER ON AND OFF FOR RESERVED FUNCTIONS.</li> </ul>		
1 1/0 1/0 2/0	6 6 6 6	2 2 2 2 2	2 1/0 1/0 2/0	2 2 2 2 2			
2/0 3/0 3/0 1/0	6 6 6 4	2 2 2 2	2/0 2/0 2/0 2/0	2 2 2 2			
1/0 250 250	4 4 4	2 1 1	2/0 2/0 2/0	2 2 2			
50 50 500 500	3 3 3 3	1/0 1/0 3/0 3/0	3/0 3/0 3/0 3/0	2 2 2 2 2		TS	
3/0 3/0 250	3 3 1 1	3/0 3/0 4/0 4/0	3/0 3/0 3/0	2 2 2 2 2		И Ш	
50 50 50 50 600	1/0 1/0 1/0	4/0 4/0 4/0 4/0	3/0 3/0 3/0 3/0	2,4 2,4 2,4		Ы	
500 500 500 500	1/0 2/0 2/0 2/0	4/0 4/0 4/0 4/0	3/0 3/0 3/0 3/0	2,4 2,4 2,4 4		ROVEMENTS	
00 600 600	2/0 3/0 3/0	4/0 4/0 4/0	3/0 3/0 3/0	4 4 4		PR	
50 50 00 00	3/0 3/0 4/0 250	4/0 4/0 4/0 250	3/0 3/0 4/0 250	4 4 4 4 4		IMPI	
500 500 500	350 500 500	350 500 500	350 500 500 -	4 4 4 6		EAD	
-	-	-	-	6 6	<ul> <li>PROVIDE PANEL WITH GROUNDING AND MAIN BONDING JUMPER. REFER TO DETAIL (C1) ON SAME SHEET FOR MORE INFORMATION.</li> </ul>	Ë	
EACH RE TH TORS MPER BRA	H CONDUIT IWN UNLES PER TABL E RATING NCH CIRCU	SS OTHER\ LE 250-122 ' SHOWN IN UITS SERVI	DIFICATION WISE NOTI WHEN CIR I TABLE. ING COMP	CUIT UTERS.		TRAII	EAST
NDU		E ENTRANO		CTORS.			2125 84041
QUIP		OUNDING C	ONDUCTC	R		LK	NORTH ON, UT
NG CO	ONDUCTOR	HARMONIC RS DERATE FOR THE E	ED			NE NE	2700 N LAYTC
THE G	ROUND OI	ND CONDUC F EQUIPME	ENT GROU	ND		RE	VISIONS
ROUI SYS	NDING OF	THE SECO				N0. yyimnidey	DESCRIPTION
							ESSIONAL
						No.	7258080 NCER C.
						5.147 5.147	LITTLE 5-04-2023 E OF UTAN
						Designed By: Drawn By: Date: Checked By:	JJN JJN 04/26/2023 SCL
						Project No: Drawing Title ONE-L	230019
					SET	DIAGR	
					BID	Drawing numb	per
						ES	601

							A	ABBRE	EVIAT	ION	S														
DL - DAM EQC - EAR F - FUS HLD - HINO HS - HOU PS - PHO QRS - QUA ST - STA WG - WIR	RETURN AND HEAT IP LOCATION THQUAKE CLIPS ING GED AND LATCHED ISE SIDE SHIELD TOCELL SWITCH RTZ RESTRIKE			EMERGENCY NE - NORMAL AND EN EB - EMERGENCY BA ET - EMERGENCY TR		ΓIONS	F	JUDRE	<u>. v 1/4 1</u>	BALLA IS - I PS - I PSMH - I PPLF - I LVTM - I LVTE - I	<b>ST</b> INSTANT STAF RAPID START PROGRAM ST PULSE START PROVIDE POW LOW VOLTAGI	T TART, PARA T METAL H/ WER LINE F BE TRANSF BE TRANSF	ALLEL LAMP OPERA ALLIDE (CWA OR ELE FILTER ORMER (MAGNETIC) ORMER (ELECTRON	BL - 10 NSL - CC RGDNIC) - CL - PW - C) EA - S - GS - CBA - SCBA - SCBA - SCBA - CCA -	MATTE W BLACK SILVER GOLD CLEAR PAINTED EXTRUDI STEEL GALVANI CAST COLOR E STANDAR ARCHITE CUSTOM ARCHITE	WHITE ED ALUMIN ZED STEEL BY ARCHITE RD COLOR CT COLOR BY CT	#OA - GC - GO - GF - SGL - DO - CGL - S - S - S - BY REFI	ACRYLIC ; ACRYLIC ; GLASS (C GLASS (O GLASS (FI SOFT GLC HIGH PER DROP OP, CONVEX ( SATIN LEP <b></b>	#THICK (OP/ LEAR) PAL) ROSTED) DW LENS FORMANCE AL GLASS LENS	LENS	JTION	B - 1 C - 0 F - 1 P - 1 PL 1 R - 1 S - 5 W - 7 <b>POLE</b> RS - RT -	BASE CEILING FLANGE GRID PENDANT POLE RECESSED SURFACE WALL ROUND STRAIGHT ROUND TAPERED	CONFIGURAT BA - BANNER AR BH - BULL HORN DL - 2 "L" SHAPE DS - 2 @ 180 PT - INLINE POST Q - QUAD SH SHEPHERDS HOOK SL - SINGLE T - 3 "T" SHAPE	T TOP
2. COMPLY 3. REFER 1	WITH THE "EX	OUNTING KITS OR ACCESSORIES TO FAC TERIOR LIGHTING" SECTION OF THE SPEC ONS FOR IMPORTANT TECHNICAL REQUI E APPROVED BY UL OR ANOTHER ACCEP	CIFICATIONS. REMENTS FOR LIGH	ITING FIXTURES, BALLAST	S, AND LAMPS.				BALLAST	D4 - DD -	3 WIRE DIMME 4 WIRE DIMME DIGITAL DIMM STEP DIMMEF	1ER MER	DIFFU	R - M -	MEETS F STANDAF THERMA PROTEC FLUSH REGRES MITERED	RD 209D LLY TED S	IV - VSQ - SA - SR - BW# - BW# - FC - SC - NC -	NEMA BE	LUMINUM TED REFLEC AM WIDTH ? ASSIFIC TOFF = TOFF OFF	1 THRU 7			SQUARE STRAIGHT SQUARE TAPERED		MANU
ID	IMAGE	TYPE	BUG RATING BYCK BYCK BYCK BYCK	LENGTH WIDTH DEPTH	DIAMETER	COLOR	TYPE	MENAIRE LUMENS	PUT ANSI	HOUSING		OTHER	FINISH FINISH	CONFIGURATION		HSIN	ICIENCY	TYPE CONFIGURATION			WIND RATING	OPTIONS	OPTIC	ON 1	
(Z54)		MODERN STYLE, LED POLE LIGHT. 20' POLE		26"	14"	4000K	LED	12000	120	SCBA	SCBA	SCBA			V		0		3' - 0"	20' - 0"			SUPERIOR		ENER
(Z55)	NO I A G E AVALABLE	MODERN STYLE, LED POLE LIGHT, 20' POLE, DIRECT BURIAL.		26"	14"	4000K	LED	15000 2	77 120	SCBA	SCBA	SCBA			FTW		0		3' - 0"	20' - 0"			FONROCH	HE (CK16)	-

Change light to the following: Lithonia DSX1 LED P3 40K T4M MVOLT SPA DBLXD 25 FT. SQUARE ALUMINUM HINGE BASE POLE DBLXD 100MPH + GUSTS WIND RATING. Mounting: Pole, Pole Base. Lamps LED (102W)

#### EXTERIOR LIGHTING FIXTURE SCHEDULE ABBREVIATIONS

#### NOTES

ATION ARMS RN APE OST TOP	1.	ADD/DELETE CHANGES 48 BUSINESS HOURS OF THIS REQUIREMENT MA EMPOWER THE ENGINE	AND FIXTURE BRAND SELECTED FOR FOR EACH FIXTURE TYPES SHOWN WI THE BID DATE. FAILURE TO COMPLY Y DISQUALIFY THE PRODUCTS AND ER TO DETERMINE FAIR VALUE FOR TION CHANGES, WITHOUT FURTHER IN PR OR INSTALLER.	WITH
RDS	2.	JOB WAS SPECIFIED, CO SHALL VERIFY THIS ALLO THE ENGINEER BEFORE	NCE PRICES ARE ACCURATE WHEN TH ONTRACTOR AND ELECTRICAL DISTRIB OWANCE AND REPORT ANY PROBLEM: THE BID. ALLOWANCE PRICE MAY OR OR FREIGHT AS NOTED, AND DO NOT	UTOR S TO
ΜΔΝΙ	IFAC	TURER (CATALOG SERIES	S)	
		OPTION_2	OPTION 3	ALLOWANCE
ENER	GY (I	HALO150)	ALCON (11410-D)	
-			-	

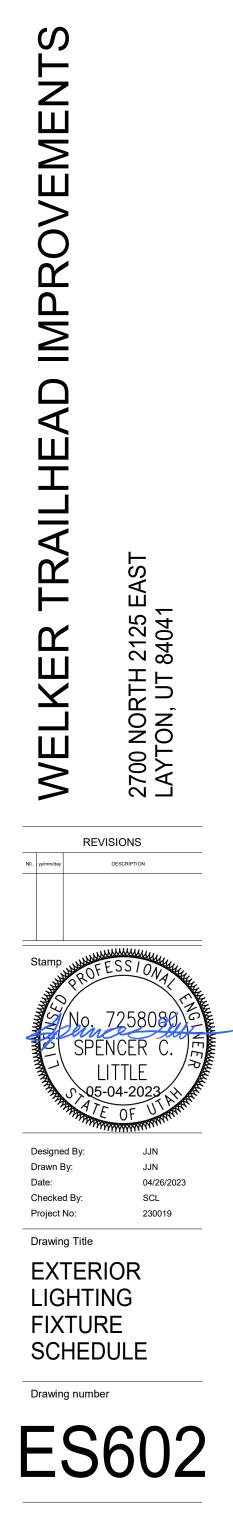


8719 S. Sandy Parkway Sandy, UT 84070 p 801.679.3157

OWNER: LAYTON CITY 437 N WASATCH DR, LAYTON, UT 84041

-----

CONTACT: JOELLEN GRANDY PH: 801-336-3926



**BID SET**