

7/31/2017 4:46:16 PM

**Incoming Electrical Service
Division of Responsibility**

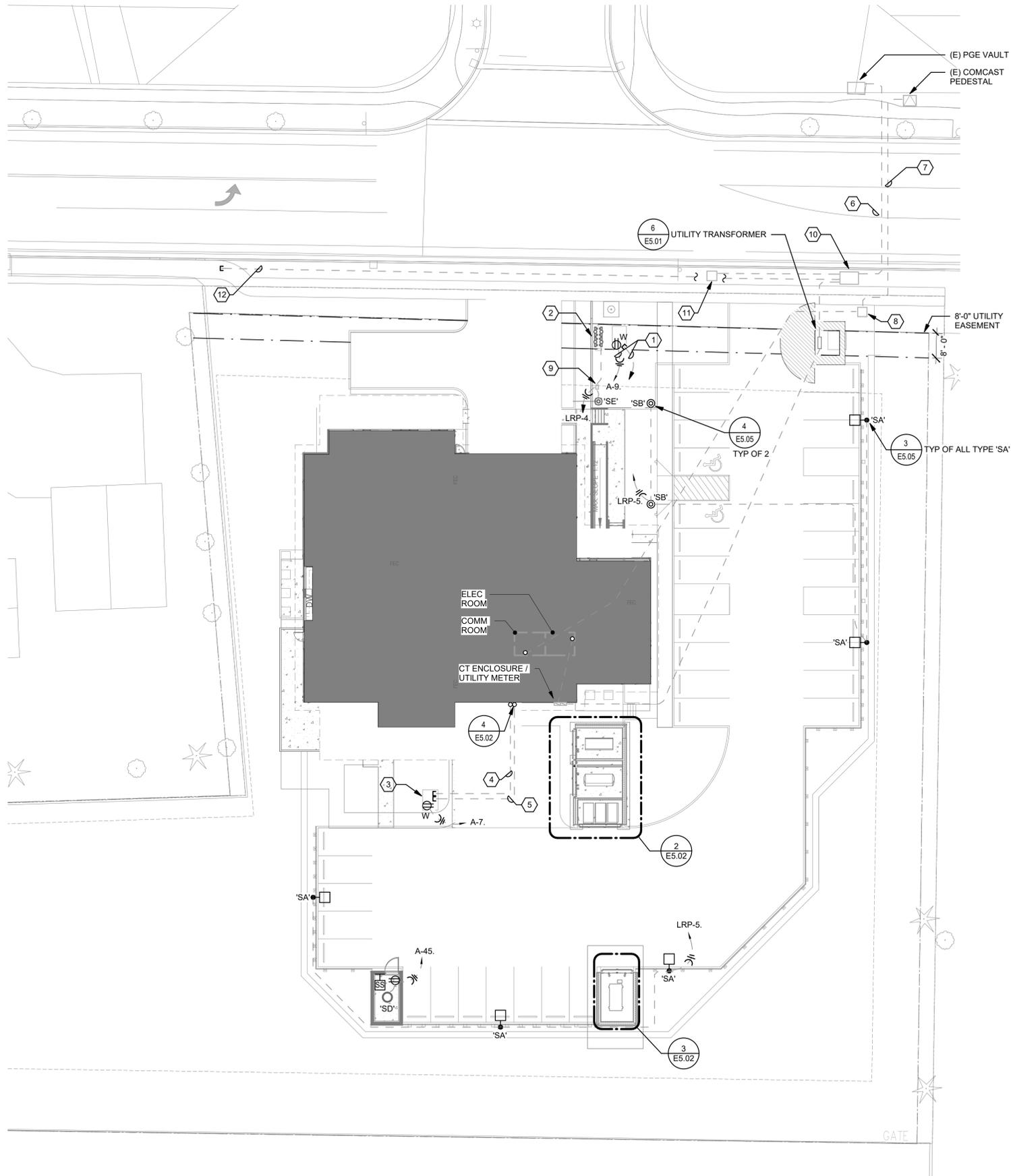
Contractor	Utility	Contacts:
Primary Conduit	X	Power Utility: Jeremy Sampson Portland General Electric Phone: (503) 672-5530 Work Order: M2217836
Primary Conductors	X	
Trenching and Backfill	X	Street Lighting: Jeff Wiese Portland General Electric Phone: (503) 742-8363 Email: Jeff.Wiese@pge.com Work Order: M2217945
Transformer	X	
Transformer Pad / Vault	X	
Bollards	X	
Transformer Connections	X	Telephone Utility: Ken Scullin CenturyLink Phone: (503) 242-0304 Email: Kenneth.Scullin@CenturyLink.com
Secondary Conduit	X	
Secondary Conductors	X	Cable T.V. Utility: Scott Sarber Comcast Phone: (503) 596-3767 Email: Scott_Sarber@cable.comcast.com
C/T Enclosure	X	
C/T's	X	
Meter Base	X	
Meter	X	
Electric Room Door Lock Box (obtain from power company)	X	

Reported Fault Current at Transformer:

Notes:

- Contact and coordinate all requirements and responsibilities with serving utility companies prior to submitting bid.
- All service installation work shall be in strict compliance with the requirements of the serving utilities.

Disclaimer: Interface Engineering, Inc. has contacted the utilities but has not received in writing the final requirements from the power utility or telephone utility. These drawings indicate our best estimation of their requirements. Prior to bid, contact the utilities and obtain in writing their requirements.



SHEET KEYNOTES

- PROVIDE 120V CONNECTION TO FDC VAULT FOR SUMP PUMP. PROVIDE (1) 1" C. FROM FACP IN ELECTRICAL ROOM TO FDC VAULT FOR LOW VOLTAGE WIRING TO TAMPER SWITCHES.
- TYPE 'SF' LUMINAIRES TO MOUNT TO PODIUM SIGNAGE. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
- PROVIDE 120V CONNECTION TO DIVERTER VALVE VAULT FOR SUMP PUMP. PROVIDE A FLOAT SWITCH IN VAULT TO ACTIVATE BEACON LIGHT AT BUILDING FACADE UPON VAULT FLOOD CONDITION. COORDINATE WITH OWNER FOR FLOAT LEVEL SWITCH SETTINGS.
- PROVIDE (1) 1" C. WITH PULLSTRING FROM DIVERTER VALVE CONTROL PANEL TO DIVERTER VAULT FOR ROUTING OF COMPRESSED AIR LINE.
- PROVIDE (1) 1" C. FROM DIVERTER VAULT TO INDICATOR BEACON LIGHT.
- PROVIDE (1) 4" C. FROM EXISTING PGE VAULT ON NORTH SIDE OF HIDDEN SPRINGS ROAD. BORE UNDERNEATH ROAD TO NEW PAD-MOUNT TRANSFORMER LOCATION. PATCH AND REPAIR (SIDEWALK, LANDSCAPE, ETC.) AS REQUIRED TO RESTORE TO PRECONSTRUCTION CONDITIONS. VERIFY CONDUIT LENGTH PRIOR TO BID.
- PROVIDE (1) 4" C. WITH PULLSTRING FROM EXISTING COMCAST PEDESTAL TO COMM ROOM. BORE ACROSS ROADWAY. PATCH AND REPAIR (SIDEWALK, LANDSCAPE, ETC.) AS REQUIRED TO RESTORE TO PRECONSTRUCTION CONDITIONS. VERIFY CONDUIT LENGTH PRIOR TO BID.
- PROVIDE TELECOM VAULT, OLDCASTLE PRECAST 3030-LA.
- PROVIDE ELECTRICAL PULLBOX, OLDCASTLE CHRISTY 10"x17" ENCLOSURE OR APPROVED.
- PROVIDE 660-PGE SWITCH VAULT.
- PROVIDE NEW CONCRETE MICROPAD FOR STREET LIGHTING TRANSFORMER. COORDINATE REQUIREMENTS WITH PGE, SEE SHEET E1.02.
- PROVIDE (1) 4" C. FROM 660-PGE SWITCH VAULT FOR FUTURE PER PGE REQUIREMENTS.



6720 SW MACADAM AVENUE, SUITE 100
PORTLAND, OR 97219
T 503.245.7100

1505 5TH AVE, SUITE 300
SEATTLE, WA 98101

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TVFR STATION 55 - ROSEMONT

20790 Hidden Springs Rd
West Linn, OR 97068

Tualitan Valley Fire & Rescue

REVISION	DATE	REASON FOR ISSUE
1	04/17/17	Addendum 3
3	07/18/17	RFI 27.1



**SITE PLAN -
ELECTRICAL**

CONSTRUCTION SET

DATE	REVISION
06/16/17	3
PROJECT NUMBER	SHEET NUMBER
160420	E1.01
SCALE	
As indicated	

PROJECT 2016-0204
CONTACT Jeffrey Glanville

100 SW Main St.
Suite 1600
Portland, OR 97204
TEL 503.382.2266
FAX 503.382.2262
www.interfaceengineering.com

1 SITE PLAN - ELECTRICAL

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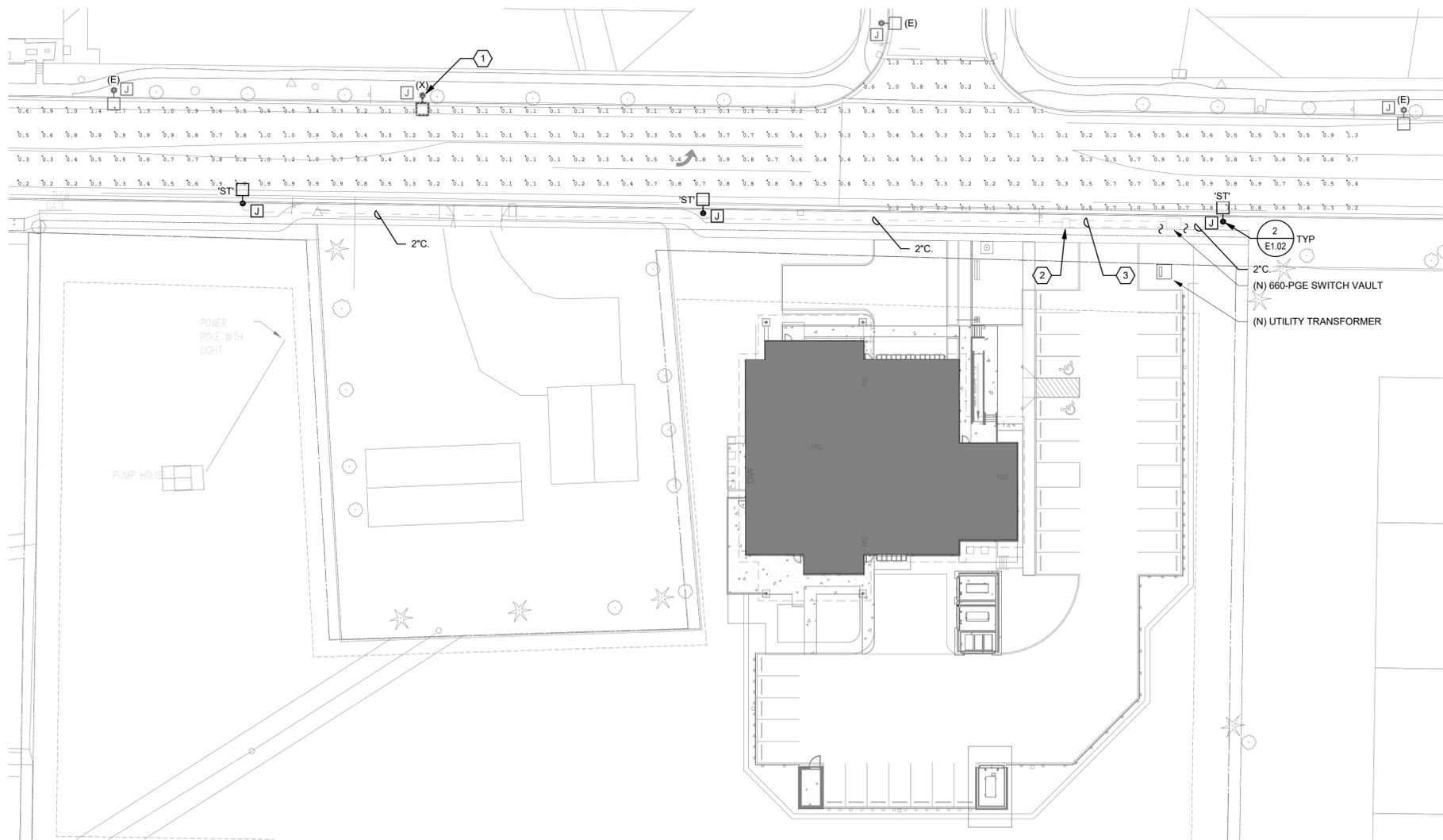
CALCULATION SUMMARY

AREA	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
HIDDEN SPRINGS ROAD	FC	0.48	1.7	0.1	4.8	17

STREET LIGHTING LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	HOUSING	DISTRIBUTION	MOUNTING	FINISH	UL/IP RATING	BALLAST	LAMP(S)	INPUT WATTS	MFG/CATALOG #	NOTES
ST	POLE MOUNTED LED STREET LIGHT	ALUMINUM	TYPE II MEDIUM	POLE MOUNTED WITH HORIZONTAL TENON	BRONZE	WET	INTEGRAL ELECTRONIC DRIVER	4550 LUMENS, 3X10 LED, 525mA, 4000K	53	CREE LEEDWAY	PROVIDE WITH 30'-FOOT HIGH POLE (FIXTURE AT 25-FEET) AND 8-FOOT MAST. PROVIDE WITH NEMA PHOTOCELL RECEPTACLE AND UTILITY OPTION.

NOTES:
 1 THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.
 2 PROVIDE POLE AND MAST ARM TO PGE REQUIREMENTS, FINISH TO BE BRONZE.



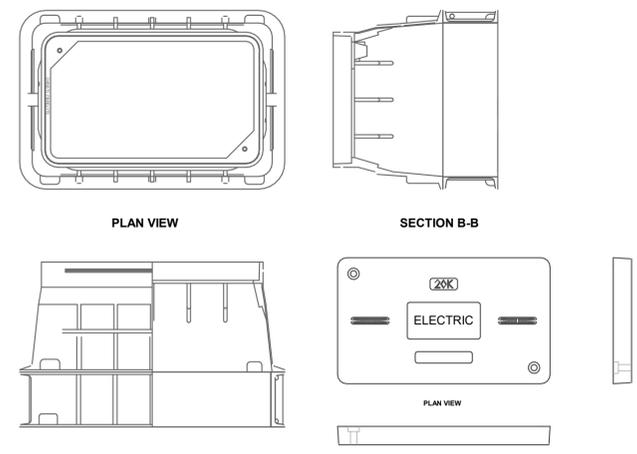
1 SITE PLAN - STREET LIGHTING
 0' 30' 60'
 1" = 30'-0"

SHEET KEYNOTES

- EXISTING POLE MOUNTED SHOEBOX HID STREET LIGHT TO BE REMOVED. CONTRACTOR TO COORDINATE REMOVAL OF STREET LIGHT WITH PGE.
- COORDINATE INSTALLATION REQUIREMENTS OF 120/240V 25KV STREET LIGHTING TRANSFORMER WITH PGE.
- PROVIDE 2"C. BETWEEN NEW 660-PGE SWITCH VAULT AND MICROPAD FOR STREET LIGHTING TRANSFORMER.

STREET LIGHTING NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO PORTLAND GENERAL ELECTRIC (PGE) OPTION 'A' SPECIFICATIONS. ALL MATERIALS AND INSTALLATIONS SHALL BE APPROVED BY PGE.
- EQUIPMENT INSTALLATION SHALL COMPLY WITH LATEST EDITION OF THE PGE STATEMENT OF STREETLIGHT INSTALLATION RESPONSIBILITIES. OBTAIN LATEST EDITION FROM PGE. AMONG THE ITEMS LISTED IN THIS DOCUMENT, SOME HIGHLIGHTS ARE:
 - DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR ALL TRENCH EXCAVATION AND BACKFILLING, CONDUITS, ELBOWS, VAULTS, JUNCTION BOXES, LANDSCAPE RESTORATION, AND ASSOCIATED PERMITS.
 - TRENCHES ARE TO BE 48" DEEP WHEN SHARED WITH OTHER UTILITIES, AND OTHERWISE AT LEAST 36" DEEP.
 - AN ON-SITE PRECONSTRUCTION MEETING IS REQUIRED.
 - ALL CONDUCTORS ARE TO BE INSTALLED IN CONDUIT.
 - ALL CONDUITS MUST BE GRAY, ELECTRICAL GRADE SCHEDULE 40 PVC. FLEXIBLE CONDUIT IS NOT ALLOWED.
 - ALL ELBOWS MUST BE FACTORY MADE.
 - A MINIMUM OF 12" WORKING SPACE IS TO BE PROVIDED BETWEEN THE TOP TO ELBOWS AND THE JUNCTION BOX LID TO ALLOW BENDING UP TO 4/0 ALUMINUM GAUGE WIRE WITH DAMAGE TO WIRE.
 - ELBOWS ARE TO BE CLUSTERED AT ONE END OF JUNCTION BOX.
 - WHERE JUNCTION BOXES ARE INSTALLED, THE CONTRACTOR SHALL RUN CONTINUOUS #10 CU 3-CONDUCTOR STREETLIGHT WIRE FROM THE LUMINAIRE TO THE JUNCTION BOX. PGE WILL RUN CONDUCTOR FROM THE SOURCE TO THE JUNCTION BOX.
 - STREETLIGHT WIRE SHALL BE #10 AWG, 600-VOLT, 3-CONDUCTOR, CLASS B STRANDING, TYPE TC, WITH SUNLIGHT-RESISTANT 45-MIL PVC JACKET, SUITABLE FOR DIRECT BURIAL INSTALLATIONS. INSULATION TO BE BLACK, RED AND GREEN PER NEMA WC-7 FOR NEC APPLICATIONS (TFN, THWN, THHN), WITH FILLERS OR BINDING TAPE ADDED TO PRODUCE ROUND OUTER JACKET, RATED 90-DEGREE CELSIUS DRY AND 75-DEGREE CELSIUS WET, 1000-FOOT NR REELS. JACKET TO DISPLAY SEQUENTIAL FOOTAGE MARKINGS, 2 REEL LABELS, ONE ATTACHED TO THE OUTSIDE FLANGE SURFACE, ONE ATTACHED TO THE DRUM WRAPPING, EACH TO DETAIL TOTAL FOOTAGE, INSIDE OR STARTING FOOTAGE.
 - TAMPED 3/4-INCH MINUS CRUSHED ROCK BACKFILL IS REQUIRED AROUND ALL POLES AND FOOTINGS, REGARDLESS OF SOIL CONDITION.
 - ALL METAL POLES MUST BE GROUND PER NESC 215.C AND NESC SECTION 9, USING A 5/8-INCH X 8-FOOT GALVANIZED ROD, CONNECTED TO THE GROUNDING LUGS INSIDE THE POLE USING SOLID #6 CU BSD WIRE (STRANDED WIRE IS NOT ACCEPTABLE). GROUND ROD IS TO BE DRIVEN INTO UNDISTURBED SOIL NEAR THE POLE.
- POWER SOURCE FOR NEW STREET LIGHTS TO BE EXISTING STREET LIGHTING JUNCTION BOX LOCATED ACROSS HIDDEN SPRINGS ROAD. COORDINATE WITH PGE. REFERENCE PGE STREET LIGHTING CONTACT INFORMATION AND WORK ORDER NUMBER ON SHEET E1.01.
- JUNCTION BOXES ARE TO BE PROVIDED TO FOLLOWING PGE SPECIFICATION:
 - CONCRETE POLYMER LID, FIBERGLASS REINFORCED POLYMER FLARED SIDES, 18" DEEP, NO FLOOR, WITH SKID RESISTANT COVER ATTACHED BY TWO CAPTIVE STAINLESS STEEL, 3/8-INCH PENTA-HEAD BOLTS, GRAY COLOR PER PGE T&D SPECIFICATION.
 - OLDCASTLE 13241617, ARMOSTCAST A6001946TAX18-PGE, QUAZITE A42132418A017, HIGHLINE CHA132418HE1 OR APPROVED.
- OWNER IS RESPONSIBLE FOR COST OF EXISTING STREET LIGHT REMOVAL, CONSISTING OF THE ESTIMATED ORIGINAL COST, LESS DEPRECIATION, LESS SALVAGE VALUE, PLUS REMOVAL COST.



2 STREET LIGHTING JUNCTION BOX
 NO SCALE

PROJECT 2016-0204
 CONTACT Jeffrey Glanville

INTERFACE ENGINEERING

100 SW Main St.
 Suite 1600
 Portland, OR 97204
 TEL 503.382.2266
 FAX 503.382.2262
 www.interfaceengineering.com

Ankrom Moisan

38 NW DAVIS ST, SUITE 300
 PORTLAND, OR 97209
 T 503.245.7100

1505 5TH AVE, SUITE 300
 SEATTLE, WA 98101
 T 206.576.1600

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1	04/17/17	Addendum 3
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SITE PLAN - STREET LIGHTING

CONSTRUCTION SET

DATE 06/16/17	REVISION 3
PROJECT NUMBER 160420	SHEET NUMBER E1.02
SCALE As indicated	