



ADDENDUM TO THE CONTRACT

for the

**MELVIN PARK LIGHTING UPGRADE
Contract No. BE23-022**

ADDENDUM NO.: ONE

CURRENT DEADLINE FOR BIDS:

January 11, 2023

PREVIOUS ADDENDA: NONE

ISSUED BY:

City and Borough of Juneau
ENGINEERING DEPARTMENT
155 South Seward Street
Juneau, Alaska 99801

DATE ADDENDUM ISSUED:

January 9, 2023

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Public Purchase webpage at: <https://www.publicpurchase.com/gems/juneau.ak/buyer/public/home>

DRAWINGS:

Item 1 Drawing E-13 titled "FOOTING & JUNCTION BOX", **Delete and Replace** with attached Drawing labeled "ADDENDUM 1".

Digitally signed by Greg
Smith
Date: 2023.01.09
08:33:47 -09'00'

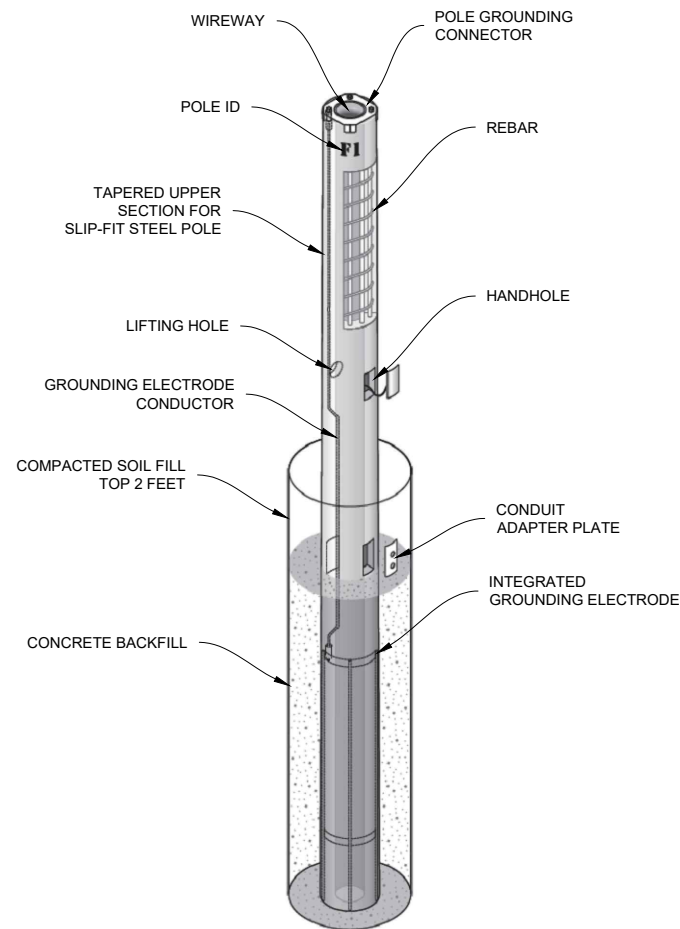
By: Greg Smith
Greg Smith,
Contract Administrator

Total number of pages contained within this Addendum:



PRECAST CONCRETE FOOTING DETAIL:

1. BACKFILL WITH CONCRETE AROUND FOOTING.
2. GROUNDING CONDUCTOR INTEGRAL TO PRECAST CONCRETE BASE.
3. CONCRETE SHALL BE PER CITY AND BOROUGH OF JUNEAU SPEC SECTION 03302.
4. PRECAST CONCRETE BASES AND POLES ARE A MATCHED SET THAT JOIN TOGETHER WITH A SLIP-FIT. PROVIDE PRECAST BASES FROM POLE MANUFACTURER.



1 PRECAST CONCRETE FOOTING DETAIL

POLE FOUNDATION SCHEDULE						
POLE DESIGNATION	FORCES (1)			DRILLED PIER		
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS	DIAMETER INCHES	EMBEDMENT DEPTH	CONCRETE BACKFILL YD ³ (2)
A1, A2	74,417	1,769	1,991	30	14'-0"	1.6
B1	127,317	2,567	3,248	30	16'-0"	1.7
B2	125,919	2,529	3,188	30	16'-0"	1.7
C1, C2	87,657	1,902	2,015	30	14'-0"	1.6
D1, D2	111,710	2,263	2,954	30	16'-0"	1.7

1. ASD LOAD COMBINATION D + 0.6W.
VERTICAL FORCE IS WEIGHT OF DRESSED POLE (DOES NOT INCLUDE PRECAST BASE WEIGHT).
2. MINIMUM CONCRETE BACKFILL VOLUME, SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL.

PRECAST BASE IDENTIFICATION					
PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT	OUTSIDE DIAMETER
4B	3,490 LBS	22'-0"	8'-0"	14'-0"	15.75"
5B	4,580 LBS	23'-11"	7'-11"	16'-0"	18.25"

POLE IDENTIFICATION				
POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER XARM)	FIXTURE AND ACCESSORIES EPA (FT ²)
A1, A2	LSS70C	4B	5 (4)	12.3
B1	LSS80B	5B	8 (6)	20.5
B2	LSS80B	5B	7 (6)	19.2
C1, C2	LSS80A	4B	5 (4)	10.7
D1, D2	LSS90A	5B	4 (3)	9.0

- POLE B1 HAS (1) MUSCO LED FIXTURE AT 50'-0" AGL INCLUDED ABOVE.
- EACH POLE HAS (1) MUSCO LED FIXTURES AT 15'-6" AGL INCLUDED ABOVE.

DESIGN PARAMETERS:
WIND: $V_{dir} = 130$ MPH, $V_{avg} = 101$ MPH (EXPOSURE C, RISK CATEGORY II) PER INTERNATIONAL BUILDING CODE, 2012 EDITION (ASCE 7-10). DESIGN WIND PARAMETERS ARE AS NOTED, ACTUAL EXPOSURE MUST BE VERIFIED FOR THE SITE BY THE PROPER GOVERNING OFFICIAL.

GEOTECHNICAL PARAMETERS:
ALLOWABLE END BEARING SOIL PRESSURE: 1,500 PSF OR SKIN FRICTION: 250 PSF
ALLOWABLE LATERAL SOIL BEARING PRESSURE:
100 PSF/FT (GRADE TO -2'-0"); 200 PSF/FT (BELOW -2'-0")
IN ACCORDANCE WITH THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE, CHAPTER 18. SEE TABLE 1806.2, SOIL MATERIAL CLASS 5 & SECTION 1806.3.4.

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

CONCRETE:
CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH AT 28 DAYS OF 3,000 PSI. 3,000 PSI CONCRETE SPECIFIED FOR EARLY POLE ERECTION, ACTUAL REQUIRED MINIMUM ALLOWABLE CONCRETE STRENGTH IS 1,000 PSI. ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM UNDISTURBED SOIL.

GENERAL NOTES:
FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN / NEAR ANY SLOPES STEEPER THAN 3H : 1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.

MELVIN PARK LIGHTING UPGRADE
 CBJ CONTRACT No. BE23-022
FOOTING & JUNCTION BOX
 JUNEAU, AK

1	1/23		
2			
3			
4			
5			
6			



ENGINEER: VAM	CHECKED BY: BR
JOB #: J000777	DRAWN BY: PP
SCALE: N/A	DATE: 03/07/2022

DRAWING #:
E-13
SHEET
13 OF 13