



This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated **July 21, 2021** as noted below. Acknowledge receipt of this addendum in the space provided on the Official Bid Form. Failure to do so may subject the Bidder to disqualification.

SUBSTITUTION REQUESTS

APPROVED

1. Section: E1.01
Product: Lithonia, RSX1 Series
Paragraph: LED Area Light w/Motion Sensor.

Proposed Substitution

Manufacturer: Gardco ECF-S-32L-700-WW-G-AR-5-UNV-CS50-IMRI3-BZ
Description: LED Area Light W/Motion Sensor.

2. Section: E1.01
Product: Lithonia, SSS Series S5 Pole
Paragraph: 25' high x4" Square .18" thick steel pole with hand hole and bronze finish.

Proposed Substitution

Manufacturer: Nova Pole NSS430MD-DP1-DBZ
Description: 25' Straight Square Steel and 30' Pole Factory Cut 25'

REVISION TO DRAWINGS:

C0.01

- REVISE per clouded items, Delta 2.

C1.01

- REVISE per clouded items, Delta 2.

C1.02

- REVISE per clouded items, Delta 2.

C1.03

- REVISE per clouded items, Delta 2.

C1.04

- REVISE per clouded items, Delta 2.

PRE-BID MEETING SIGN IN SHEET

Please review the attached sign in sheet, if corrections are required, please send them to steve.earle@hmkco.org and anna.chamberlin@hmkco.org.

END OF ADDENDUM 1



503-226-3633 503-226-3733 fax

Submittal

Project: SCSD PARKING LOT UPGRADE

Description

ECF-S-32L-700-WW-G-AR-5-UNV-CS50-IMRI3-BZ

NSS430MD-DP1-DBZ

30' POLE FACTORY CUT TO 25'

Page 1 of 1

SUBSTITUTION REQUEST

TO:HOLST Architecture / PAE Consulting Engineering

PROJECT:OSU ARTS AND EDUCATION COMPLEX

SPECIFIED ITEM:Lithonia, RSX1 Series

Section: E1.01 **Type:** S5

PROPOSED SUBSTITUTION:Gardco, ECF-S-32L-700-WW-G-AR-5-UNV-CS50-IMRI3-BZ

Attached data includes product description, specifications, drawings, photographs, performance and test data adequate for evaluation of request including identification of applicable data portions.

Attached data also includes description of changes to Contract Documents and proposed substitution requires for proper installation.

Undersigned certifies following items, unless modified by attachments, are correct:

1. Proposed substitution does not affect dimensions shown on drawings.
2. Undersigned pays for changes to building design, including engineering design, detailing, and construction costs caused by proposed substitution.
3. Proposed substitution has no adverse effect on other trades, construction schedule, or specified warranty requirements.
4. Maintenance and service parts available locally or readily obtainable for proposed substitution.

Undersigned further certifies function, appearance, and quality of proposed substitution are equivalent or superior to specified item.

Undersigned agrees, if this page is reproduced, terms and conditions for substitutions found in Bidding Documents apply to this proposed substitution.

Submitted by:

Name (Printed or typed)

David Wray

David Wray

Signature

Firm Name: Northern Illumination Co. Inc.

Address: 17400 SW Upper Boones Ferry Rd. #270

City, State, Zip: Portland, OR 97224

Date: 8/3/2021

Tel: (503) 226-3633 Fax: (503) 226-3733

General Contractor (if after award of Contract)

For use by A/E

☐ Approved ☒ Approved as noted

☐ Not Approved ☐ Received too late

By Devon Lute, Landis Consulting

Date 2021-08-04

Remarks Provide integral photocell,
Project and arch/eng firm are incorrect on request form.

Soderstrom Architects

1200 NW Naito Parkway, Suite 410 Portland, Oregon 97209

- ☐ NO EXCEPTION TAKEN
☒ MAKE REVISIONS NOTED
☐ REVISE AND RESUBMIT
☐ REJECTED

This review is only for conformance with the design concept of the Project and compliance with the general intent of the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains to the fabrication processes and to techniques of construction, and for coordination of the work of all trades.

BY Emily Estes

DATE 8/6/2021

The Construction Specifications Institute
Northwest Region



Advancement
of Construction
Technology

	Description : ECF-S-32L-700-WW-G-AR-5-UNV-CS50-IMRI3-BZ Project Name: SCSD PARKING LOT UPGRADE Notes:	TYPE: <div>S5</div>
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Site & Area

EcoForm

ECF-S small area light



Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 27,800 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings. Includes Service Tag, our innovative way to provide assistance throughout the life of the product.

Project:	
Location:	
Cat.No:	
Type:	
Lamps:	Qty:
Notes:	

Ordering guide

example: ECF-S-64L-900-NW-G2-AR-5-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage	Options						Finish
							Dimming controls	Motion sensing lens	Photo-sensing	Electrical	Luminaire		
ECF-S													
ECF-S EcoForm site and area, small	32L 32 LEDs (2 modules)	365 365mA 530 530mA 700 700mA 1A 1050 mA 1.2A 1200 mA	WW-G2 Warm White 3000K, 70 CRI Generation 2 NW-G2 Neutral White 4000K, 70 CRI Generation 2 CW-G2 Cool White 5000K, 70 CRI Generation 2	AR Arm Mount (standard) ² <i>The following mounting kits must be ordered separately (See accessories)</i> SF Slip Fitter Mount ³ (fits to 2 3/8" O.D. tenon) WS Wall mount with surface conduit rear entry permitted RAM Retrofit arm mount kit ²	Type 2 2 Type 2 2-90 Rotated left 90° 2-270 Rotated right 270° Type 3 3 Type 3 3-90 Rotated left 90° 3-270 Rotated right 270° Type 4 4 Type 4 4-90 Rotated left 90° 4-270 Rotated right 270° Type 5 5 Type 5 5W Type 5W AFR Auto Front Row AFR-90 Auto Front Row, Rotated left 90° AFR-270 Auto Front Row, Rotated right 270°	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V (50/60Hz) HVV 347-480V (50/60Hz)	DD 0-10V External dimming (by others) ⁴ DCC Dual Circuit Control ^{4,5,6} FAWS Field Adjustable Wattage Selector ^{4,5} SW Interface module for SiteWise ^{4,6,7} LLC Integral wireless module ^{4,6,8,17} BL Bi-level functionality ^{4,17} DynaDimmer: Automatic Profile Dimming CS50 Safety 50% Dimming, 7 hours ^{4,8} CM50 Median 50% Dimming, 8 hours ^{4,8} CS30 Safety 30% Dimming, 7 hours ^{4,8} CM30 Median 30% Dimming, 8 hours ^{4,8}	IMRI3 Integral with #3 lens ¹⁵ IMRI7 Integral with #7 lens ¹⁶	PCB Photocontrol Button ^{4,9} TLRD5 Twist Lock Receptacle 5 Pin ¹⁰ TLRD7 Twist Lock Receptacle 7 Pin ¹⁰ TLRPC Twist Lock Receptacle w/ Photocell ^{9,11}	Fusing F1 Single (120, 277, 347VAC) ⁹ F2 Double (208, 240, 480VAC) ⁹ Pole Mount Fusing FP1 Single (120, 277, 347VAC) ⁹ FP2 Double (208, 240, 480VAC) ⁹ FP3 Canadian Double Pull (208, 240, 480VAC) ⁹ Surge Protection (10kA standard) SP2 Increased 20kA	Square Pole Adapter included in standard product TB Terminal Block ¹² RPA Round Pole Adapter (fits to 3"-3.9" O.D. pole) ¹³ HIS Internal Housing Side Shield ¹⁴	Textured BK Black WH White BZ Bronze DGY Dark Gray MGY Medium Gray Customer specified RAL Specify optional color or RAL (ex: RAL7024) CC Custom color (Must supply color chip for required factory quote)	

1. BL-IMRI3/7 equipped with out-boarded sensor housing when voltage is HVV (347-480V)
2. Mounts to a 4" round pole with adapter included for square poles.
3. Limited to a maximum of 45 degrees aiming above horizontal.
4. Not available with other dimming control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Available only in 120 or 277V.
8. Not available in 347 or 480V
9. Must specify input voltage.
10. Dimming will not be connected to NEMA receptacle if ordering with other control options.
11. Not available in 480V. Order photocell separately with TLRD5/7.
12. Not available with DCC.
13. Not available with SF and WS. RPAs provided with black finish standard.
14. HIS not available with Type 5 and 5W optics.
15. Not available with DD, DCC, and FAWS dimming control options.
16. Not available with DD, DCC, FAWS and LLC dimming control options.
17. Must specify a motion sensor lens.



	Description : ECF-S-32L-700-WW-G-AR-5-UNV-CS50-IMRI3-BZ Project Name: SCSD PARKING LOT UPGRADE Notes:	TYPE: S5
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ECF-S EcoForm small

Area luminaire

EcoForm Accessories (ordered separately, field installed)

Shielding Accessories

House Side shield

Standard optic orientation:

- HIS-32-H¹⁸ Internal House Side Shield for 32 LEDs (2 modules)
- HIS-48-H¹⁸ Internal House Side Shield for 48 LEDs (3 modules)
- HIS-64-H¹⁸ Internal House Side Shield for 64 LEDs (4 modules)

Optic at 90 or 270 orientation:

- HIS-32-V¹⁸ Internal House Side Shield for 32 LEDs (2 modules)
- HIS-48-V¹⁸ Internal House Side Shield for 48 LEDs (3 modules)
- HIS-64-V¹⁸ Internal House Side Shield for 64 LEDs (4 modules)

18. Not available with Type 5 or 5W optics

Luminaire Accessories

- ECF-BD-G2 Bird deterrent
- ECF-RAM-G2-(F) Retrofit Arm mount kit
- ECF-SF-G2-(F) Slip Fitter Mount (fits to 2 3/8" O.D. tenon)
- ECF-WS-G2-(F) Wall mount with surface conduit rear entry permitted

EcoForm PTF2
(pole top fitter fits 23/8-21/2" OD x 4" depth tenon)

- PTF2-ECF-S/L-1-90-(F) 1 luminaire at 90°
- PTF2-ECF-S/L-2-90-(F) 2 luminaires at 90°
- PTF2-ECF-S/L-2-180-(F) 2 luminaires at 180°
- PTF2-ECF-S/L-3-90-(F) 3 luminaires at 90°
- PTF2-ECF-S/L-4-90-(F) 4 luminaires at 90°
- PTF2-ECF-S/L-3-120-(F) 3 luminaires at 120°

(F) = Specify finish

EcoForm PTF3
(pole top fitter fits 3-31/2" OD x 6" depth tenon)

- PTF3-ECF-S/L-1-90-(F) 1 luminaire at 90°
- PTF3-ECF-S/L-2-90-(F) 2 luminaires at 90°
- PTF3-ECF-S/L-2-180-(F) 2 luminaires at 180°
- PTF3-ECF-S/L-3-90-(F) 3 luminaires at 90°
- PTF3-ECF-S/L-4-90-(F) 4 luminaires at 90°
- PTF3-ECF-S/L-3-120-(F) 3 luminaires at 120°

EcoForm PTF4
(pole top fitter fits 31/2-4" OD x 6" depth tenon)

- PTF4-ECF-S/L-1-90-(F) 1 luminaire at 90°
- PTF4-ECF-S/L-2-90-(F) 2 luminaires at 90°
- PTF4-ECF-S/L-2-180-(F) 2 luminaires at 180°
- PTF4-ECF-S/L-3-90-(F) 3 luminaires at 90°
- PTF4-ECF-S/L-4-90-(F) 4 luminaires at 90°
- PTF4-ECF-S/L-3-120-(F) 3 luminaires at 120°

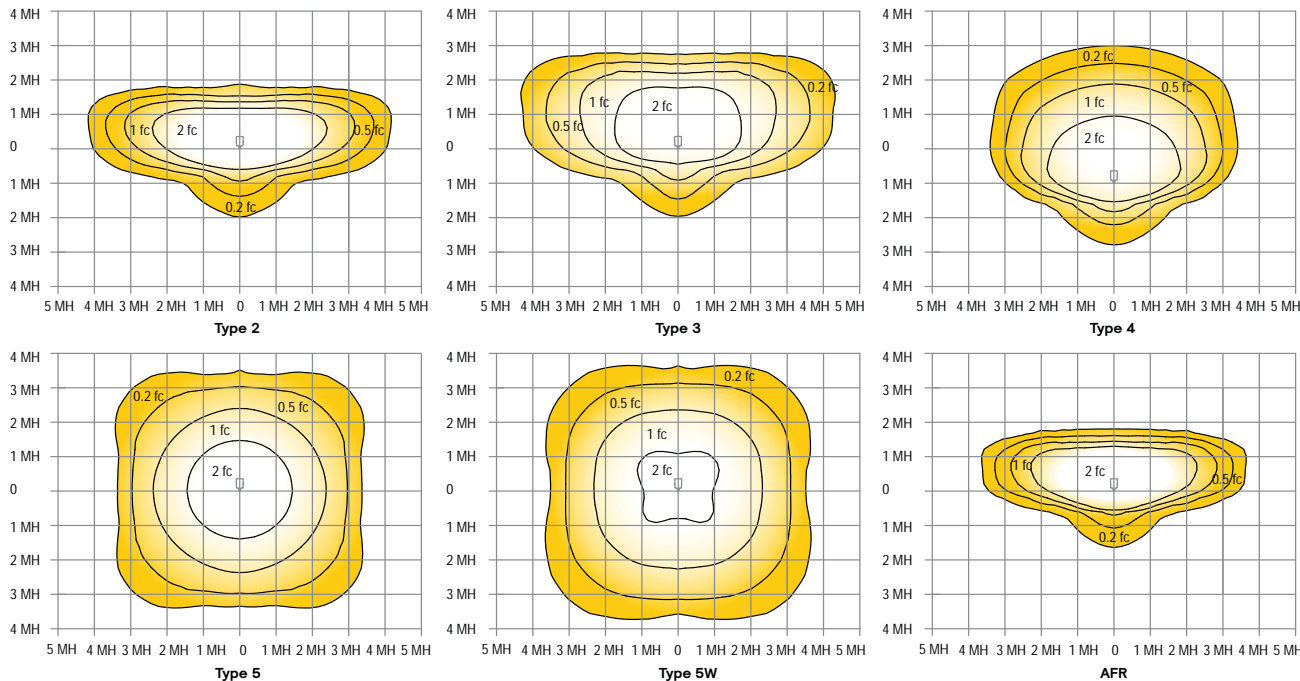
Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours

Ambient Temperature °C	Driver mA	Calculated L70 Hours	L70 per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 1200 mA	>100,000 hours	>60,000 hours	>88%

Optical distribution

Based on configuration ECF-S-48L-1A-NW-G2 (159W) mounted at 20ft.



	Description : ECF-S-32L-700-WW-G-AR-5-UNV-CS50-IMRI3-BZ Project Name: SCSD PARKING LOT UPGRADE Notes:	TYPE: S5
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ECF-S EcoForm small

Area luminaire

3000K LED Wattage and Lumen Values

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-WW-G2-x	32	365	3000	40	5,508	B1-U0-G1	138	5,428	B1-U0-G2	136	5,637	B1-U0-G2	141
ECF-S-32L-530-WW-G2-x	32	530	3000	56	7,159	B2-U0-G2	129	7,055	B1-U0-G2	127	7,327	B1-U0-G2	132
ECF-S-32L-700-WW-G2-x	32	700	3000	73	9,234	B2-U0-G2	127	9,034	B2-U0-G2	124	9,452	B2-U0-G2	130
ECF-S-32L-1A-WW-G2-x	32	1050	3000	106	13,001	B3-U0-G2	123	12,719	B2-U0-G2	120	13,306	B2-U0-G3	126
ECF-S-32L-1.2A-WW-G2-x	32	1200	3000	122	14,421	B3-U0-G3	119	14,108	B2-U0-G3	116	14,760	B2-U0-G3	121
ECF-S-48L-900-WW-G2-x	48	900	3000	135	17,115	B3-U0-G3	127	16,744	B3-U0-G3	124	17,518	B2-U0-G3	130
ECF-S-48L-1A-WW-G2-x	48	1050	3000	159	19,381	B3-U0-G3	122	18,960	B3-U0-G3	119	19,836	B3-U0-G4	125
ECF-S-48L-1.2A-WW-G2-x	48	1200	3000	183	21,515	B3-U0-G3	118	21,048	B3-U0-G4	115	22,020	B3-U0-G4	121
ECF-S-64L-900-WW-G2-x	64	900	3000	178	22,652	B3-U0-G3	127	22,161	B3-U0-G4	125	23,185	B3-U0-G4	130
ECF-S-64L-1A-WW-G2-x	64	1050	3000	206	25,520	B3-U0-G3	124	24,966	B3-U0-G4	121	26,120	B3-U0-G4	127

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type AFR			Type 5			Type 5W		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-WW-G2-x	32	365	3000	40	5,706	B2-U0-G1	143	5,790	B3-U0-G1	145	5,604	B3-U0-G1	140
ECF-S-32L-530-WW-G2-x	32	530	3000	56	7,417	B2-U0-G1	133	7,526	B3-U0-G2	135	7,284	B3-U0-G2	131
ECF-S-32L-700-WW-G2-x	32	700	3000	73	9,567	B2-U0-G2	131	9,707	B4-U0-G2	133	9,395	B4-U0-G2	129
ECF-S-32L-1A-WW-G2-x	32	1050	3000	106	13,467	B3-U0-G2	128	13,665	B4-U0-G2	129	13,227	B4-U0-G2	125
ECF-S-32L-1.2A-WW-G2-x	32	1200	3000	122	14,939	B3-U0-G2	123	15,158	B4-U0-G2	125	14,671	B4-U0-G2	121
ECF-S-48L-900-WW-G2-x	48	900	3000	135	17,731	B3-U0-G2	131	17,990	B4-U0-G2	133	17,413	B5-U0-G3	129
ECF-S-48L-1A-WW-G2-x	48	1050	3000	159	20,076	B3-U0-G2	127	20,372	B5-U0-G3	128	19,717	B5-U0-G3	124
ECF-S-48L-1.2A-WW-G2-x	48	1200	3000	183	22,288	B3-U0-G2	122	22,616	B5-U0-G3	124	21,888	B5-U0-G3	120
ECF-S-64L-900-WW-G2-x	64	900	3000	178	23,465	B3-U0-G2	132	23,810	B5-U0-G3	134	23,045	B5-U0-G3	130
ECF-S-64L-1A-WW-G2-x	64	1050	3000	206	26,437	B4-U0-G3	128	26,150	B5-U0-G3	127	25,964	B5-U0-G4	126

4000K LED Wattage and Lumen Values

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-NW-G2-x	32	365	4000	40	5,798	B1-U0-G1	145	5,713	B1-U0-G2	143	5,934	B1-U0-G2	148
ECF-S-32L-530-NW-G2-x	32	530	4000	56	7,536	B2-U0-G2	135	7,426	B1-U0-G2	133	7,713	B1-U0-G2	138
ECF-S-32L-700-NW-G2-x	32	700	4000	73	9,720	B2-U0-G2	133	9,509	B2-U0-G2	130	9,949	B2-U0-G2	136
ECF-S-32L-1A-NW-G2-x	32	1050	4000	106	13,685	B3-U0-G2	130	13,388	B2-U0-G3	127	14,006	B2-U0-G3	133
ECF-S-32L-1.2A-NW-G2-x	32	1200	4000	122	15,180	B3-U0-G3	125	14,851	B2-U0-G3	122	15,537	B2-U0-G3	128
ECF-S-48L-900-NW-G2-x	48	900	4000	135	18,016	B3-U0-G3	133	17,625	B3-U0-G3	130	18,440	B3-U0-G3	136
ECF-S-48L-1A-NW-G2-x	48	1050	4000	159	20,401	B3-U0-G3	129	19,958	B3-U0-G4	126	20,880	B3-U0-G4	132
ECF-S-48L-1.2A-NW-G2-x	48	1200	4000	183	22,647	B3-U0-G3	124	22,156	B3-U0-G4	121	23,179	B3-U0-G4	127
ECF-S-64L-900-NW-G2-x	64	900	4000	178	23,844	B3-U0-G3	134	23,327	B3-U0-G4	131	24,405	B3-U0-G4	137
ECF-S-64L-1A-NW-G2-x	64	1050	4000	206	26,863	B3-U0-G3	130	26,280	B3-U0-G4	128	27,495	B3-U0-G4	134

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type AFR			Type 5			Type 5W		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-NW-G2-x	32	365	4000	40	6,006	B2-U0-G1	150	6,094	B3-U0-G1	152	5,898	B3-U0-G2	147
ECF-S-32L-530-NW-G2-x	32	530	4000	56	7,807	B2-U0-G1	140	7,922	B3-U0-G2	142	7,667	B3-U0-G2	138
ECF-S-32L-700-NW-G2-x	32	700	4000	73	10,070	B2-U0-G2	138	10,218	B4-U0-G2	140	9,889	B4-U0-G2	136
ECF-S-32L-1A-NW-G2-x	32	1050	4000	106	14,176	B3-U0-G2	134	14,384	B4-U0-G2	136	13,923	B4-U0-G2	132
ECF-S-32L-1.2A-NW-G2-x	32	1200	4000	122	15,725	B3-U0-G2	129	15,956	B4-U0-G2	131	15,443	B4-U0-G2	127
ECF-S-48L-900-NW-G2-x	48	900	4000	135	18,664	B3-U0-G2	138	18,937	B4-U0-G3	140	18,329	B5-U0-G3	136
ECF-S-48L-1A-NW-G2-x	48	1050	4000	159	21,133	B3-U0-G2	133	21,444	B5-U0-G3	135	20,755	B5-U0-G3	131
ECF-S-48L-1.2A-NW-G2-x	48	1200	4000	183	23,461	B3-U0-G2	128	23,806	B5-U0-G3	130	23,040	B5-U0-G3	126
ECF-S-64L-900-NW-G2-x	64	900	4000	178	24,700	B3-U0-G2	139	25,063	B5-U0-G3	141	24,258	B5-U0-G4	136
ECF-S-64L-1A-NW-G2-x	64	1050	4000	206	27,828	B4-U0-G3	135	27,526	B5-U0-G3	134	27,330	B5-U0-G4	133

	Description : ECF-S-32L-700-WW-G-AR-5-UNV-CS50-IMRI3-BZ Project Name: SCSD PARKING LOT UPGRADE Notes:	TYPE: S5
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ECF-S EcoForm small

Area luminaire

5000K LED Wattage and Lumen Values

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-CW-G2-x	32	365	5000	40	5,798	B1-U0-G1	145	5,713	B1-U0-G2	143	5,934	B1-U0-G2	148
ECF-S-32L-530-CW-G2-x	32	530	5000	56	75,36	B2-U0-G2	135	7,426	B1-U0-G2	133	7,713	B1-U0-G2	138
ECF-S-32L-700-CW-G2-x	32	700	5000	73	9,720	B2-U0-G2	133	9,509	B2-U0-G2	130	9,949	B2-U0-G2	136
ECF-S-32L-1A-CW-G2-x	32	1050	5000	106	13,685	B3-U0-G2	130	13,388	B2-U0-G3	127	14,006	B2-U0-G3	133
ECF-S-32L-1.2A-CW-G2-x	32	1200	5000	122	15,180	B3-U0-G3	125	14,851	B2-U0-G3	122	15,537	B2-U0-G3	128
ECF-S-48L-900-CW-G2-x	48	900	5000	135	18,016	B3-U0-G3	133	17,625	B3-U0-G3	130	18,440	B3-U0-G3	136
ECF-S-48L-1A-CW-G2-x	48	1050	5000	159	20,401	B3-U0-G3	129	19,958	B3-U0-G4	126	20,880	B3-U0-G4	132
ECF-S-48L-1.2A-CW-G2-x	48	1200	5000	183	22,647	B3-U0-G3	124	22,156	B3-U0-G4	121	23,179	B3-U0-G4	127
ECF-S-64L-900-CW-G2-x	64	900	5000	178	23,844	B3-U0-G3	134	23,327	B3-U0-G4	131	24,405	B3-U0-G4	137
ECF-S-64L-1A-CW-G2-x	64	1050	5000	206	26,863	B3-U0-G3	130	26,280	B3-U0-G4	128	27,495	B3-U0-G4	134

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type AFR			Type 5			Type 5W		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-CW-G2-x	32	365	5000	40	6,006	B2-U0-G1	150	6,094	B3-U0-G1	152	5,898	B3-U0-G2	147
ECF-S-32L-530-CW-G2-x	32	530	5000	56	7,807	B2-U0-G1	140	7,922	B3-U0-G2	142	7,667	B3-U0-G2	138
ECF-S-32L-700-CW-G2-x	32	700	5000	73	10,070	B2-U0-G2	138	10,218	B4-U0-G2	140	9,889	B4-U0-G2	136
ECF-S-32L-1A-CW-G2-x	32	1050	5000	106	14,176	B3-U0-G2	134	14,384	B4-U0-G2	136	13,923	B4-U0-G2	132
ECF-S-32L-1.2A-CW-G2-x	32	1200	5000	122	15,725	B3-U0-G2	129	15,956	B4-U0-G2	131	15,443	B4-U0-G2	127
ECF-S-48L-900-CW-G2-x	48	900	5000	135	18,664	B3-U0-G2	138	18,937	B4-U0-G3	140	18,329	B5-U0-G3	136
ECF-S-48L-1A-CW-G2-x	48	1050	5000	159	21,133	B3-U0-G2	133	21,444	B5-U0-G3	135	20,755	B5-U0-G3	131
ECF-S-48L-1.2A-CW-G2-x	48	1200	5000	183	23,461	B3-U0-G2	128	23,806	B5-U0-G3	130	23,040	B5-U0-G3	126
ECF-S-64L-900-CW-G2-x	64	900	5000	178	24700	B3-U0-G2	139	25063	B5-U0-G3	141	24258	B5-U0-G4	136
ECF-S-64L-1A-CW-G2-x	64	1050	5000	206	27828	B4-U0-G3	135	27526	B5-U0-G3	134	27330	B5-U0-G4	133

	Description : ECF-S-32L-700-WW-G-AR-5-UNV-CS50-IMRI3-BZ Project Name: SCSD PARKING LOT UPGRADE Notes:	TYPE: <div>S5</div>
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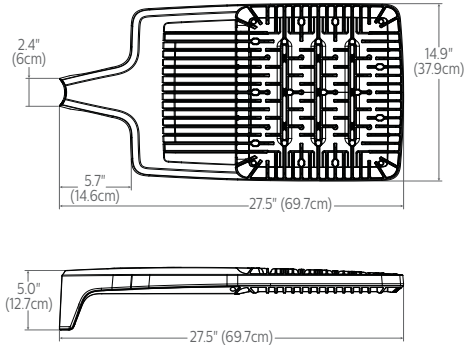
ECF-S EcoForm small

Area luminaire

Dimensions

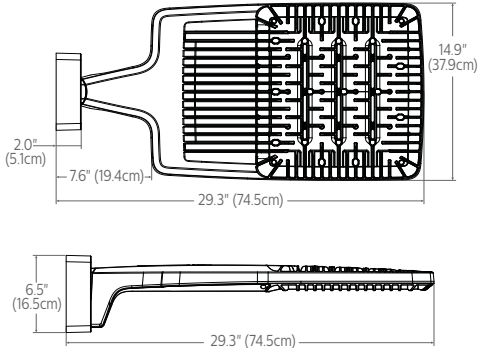
Standard Arm (AR)

Weight: 22 Lbs (9.9 Kg) EPA: 0.21ft² (.019m²)



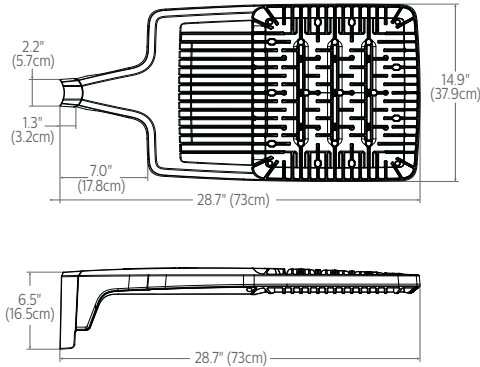
Wall (WS)

Weight: 27 Lbs. (12. 2Kg)EPA: 0.27ft² (.025m²)



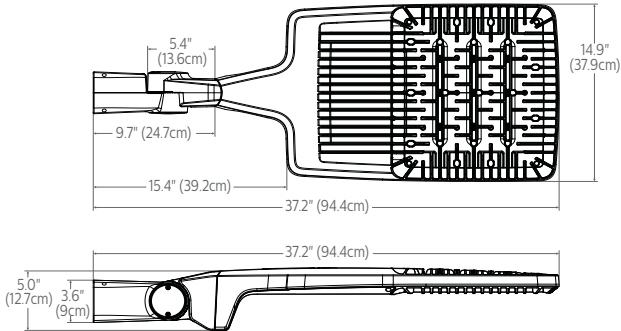
Retrofit Arm (RAM)

Weight: 24 Lbs (10.9 Kg) EPA: 0.24ft² (.022m²)

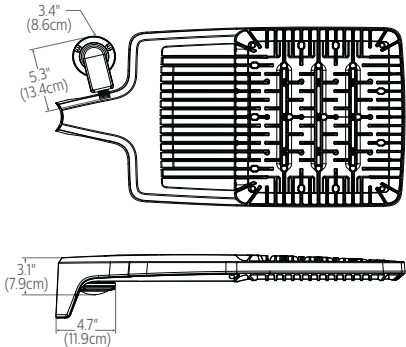


Slip fitter (SF)

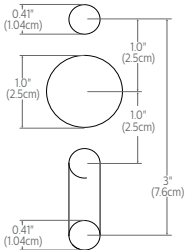
Weight: 27 Lbs (12.2 Kg) EPA: 0.33ft² (.031m²)



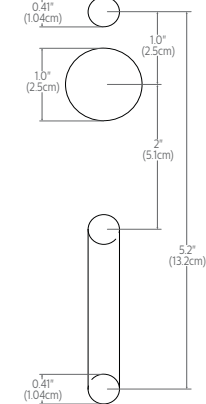
Outboard IMR-HVU sensor



Standard Arm (AR) drill pattern



Retrofit Arm (RAM) drill pattern



	Description : ECF-S-32L-700-WW-G-AR-5-UNV-CS50-IMRI3-BZ Project Name: SCSD PARKING LOT UPGRADE Notes:	TYPE: <div>S5</div>
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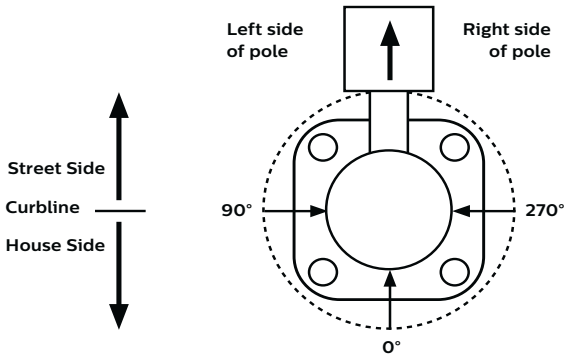
ECF-S EcoForm small

Area luminaire

Optical Orientation Information

Standard Optic Position

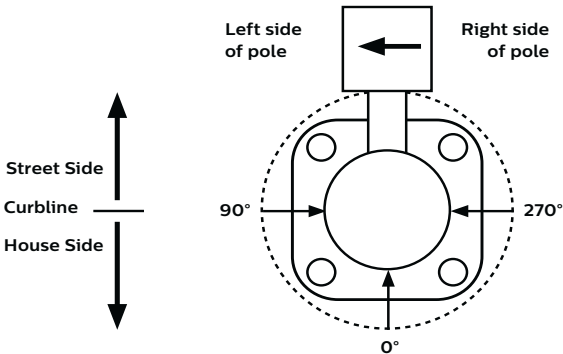
Luminaires ordered with asymmetric optical systems in the standard optic position will have the optical system oriented as shown below:



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Left (90°) Optic Position

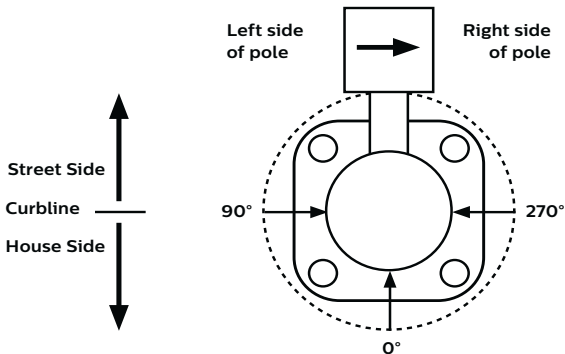
Luminaires ordered with optical systems in the Optic Rotated Left (90°) optic position will have the optical system oriented as shown below (Type 5 and 5W optics are not available with factory set rotatable optics):



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Right (270°) Optic Position

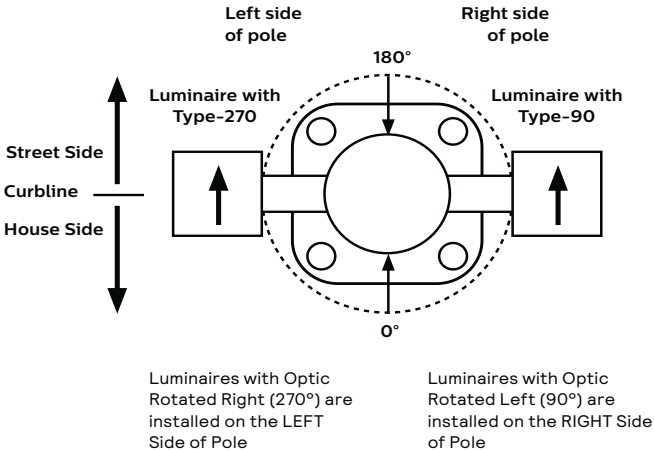
Luminaires ordered with optical systems in the Optic Rotated Right (270°) optic position will have the optical system oriented as shown below (Type 5 and 5W optics are not available with factory set rotatable optics):



Note: The hand hole will normally be located on the pole at the 0° point.

Twin Luminaire Assemblies with Type-90/Type-270 Rotated Optical Systems

Twin luminaire assemblies installed with rotated optical systems are an excellent way to direct light toward the interior of the site (Street Side) without additional equipment. It is important, however, that care be exercised to insure that luminaires are installed in the proper location.



Note: The hand hole location will depend on the drilling configuration ordered for the pole.

	Description : ECF-S-32L-700-WW-G-AR-5-UNV-CS50-IMRI3-BZ Project Name: SCSD PARKING LOT UPGRADE Notes:	TYPE: <div>S5</div>
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ECF-S EcoForm small

Area luminaire

Specifications

Housing

One-piece die cast aluminum housing with integral arm and separate, self-retained hinged, one-piece die cast door frame. Luminaire housing rated to IP66, tested in accordance to Section 9 of IEC 60598-1.

Vibration resistance

Luminaire is tested and rated 3G over 100,000 cycles conforming to standards set forth by ANSI C136.31-2010. Testing includes vibration in three axes, all performed on the same luminaire.

Light engine

Light engine comprises of a module of 16-LED aluminum metal clad board fully sealed with optics offered in multiples of 2, 3, and 4 modules or 32, 48, and 64 LEDs. Module is RoHS compliant. Color temperatures: 3000K +/-125K, 4000K, 5000K +/- 200K. Minimum CRI of 70. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

Energy saving benefits

System efficacy up to 133 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

Type 2, 3, 4, 5, 5W, and AFR distributions available. Internal Shield option mounts to LED optics and is available with Type 2, 3, 4, and AFR distributions. Types 2, 3, 4, and AFR when specified and used as rotated, are factory set only. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Standard luminaire arm mounts to 4" O.D. round poles. Can also be used with 5" O.D. poles. Square pole adapter included with every luminaire. Round Pole Adapter (RPA) required for 3-3.9" poles. EcoForm features a retrofit arm kit. When specified with the retrofit arm (RAM) option, EcoForm seamlessly simplifies site conversions to LED by eliminating the need for additional pole drilling on most existing poles. RAM will be boxed separately. Also optional are slipfitter and wall mounting accessories. Note that only fixed mounts (AR, RAM, WS) are required to meet IDA compliance. SF mounting will not meet IDA.

Control options

0-10V dimming (DD): Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

Dual Circuit Control (DCC): Luminaire equipped with the ability to have two separate circuits controlling drivers and light engines independently. Permits separate switching of separate modules controlled by use of two sets of leads, one for each circuit. Not recommended to be used with other control options, motion response, or photocells.

SiteWise (SW): SiteWise system includes a controller fully integrated in the luminaire that enables the luminaires to communicate with a dimming signal transmitter cabinet located on site using patented central dimming technology. A locally accessible mobile app allows users to access the system and set functionalities such as ON/OFF, dimming levels and scheduling. SiteWise is available with motion response options in order to bring the light back to 100% when motion is detected. Cannot be used with other control options or photocell options. Additional functionalities are available such as communication with indoor lighting and connection to BMS systems. Complete information on the control system can be found on the SiteWise website at philips.com/sitewise.

Automatic Profile Dimming (CS/CM/CE/CA): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic diming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM – 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM – 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 1 or 2 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

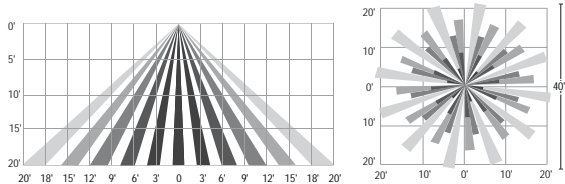
Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: Typical value accuracy +/- 5%

Wireless system (LLC): Optional wireless controller integral to luminaire ready to be connected to a Limelight system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high-density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Equipped with motion response with #3 lens for 8-25' mounting heights. Also available with remote pod accessory where pod is mounted separate from luminaire to pole or wall.

LLC wireless controller with #3 lens



Motion response options

Bi-Level Infrared Motion Response (BL-IMRI): Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSR-100 Wireless Remote Programming Tool (contact Technical Support for details).

ECF-S EcoForm small

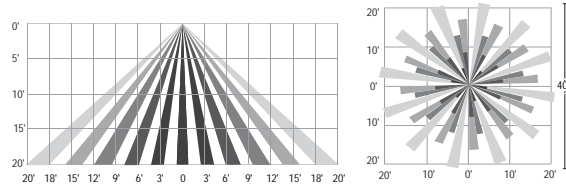
Area luminaire

Specifications

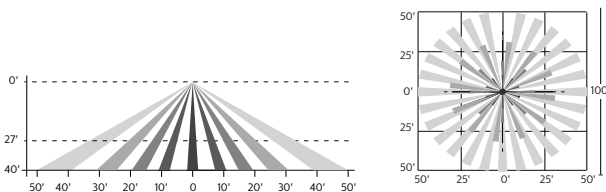
Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile and SiteWise), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

Infrared Motion Response Lenses (IMRI3/IMRI7): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #3 (IMRI3) is designed for mounting heights up to 20' with a 40' diameter coverage area. Lens #7 is designed for higher mounting heights up to 40' with larger coverage areas up to 100' diameter coverage area. See charts for approximate detection patterns:

IMRI3 Luminaire or remote mount controller with #3 lens



IMRI7 Luminaire or remote mount controller with #7 lens



Electrical

Twist-Lock Receptacle (TLRD5/TLRD7/ TLRPC): Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering Twist-lock receptacle (TLRD5 or TLRD7), photocell or shorting cap is not included. TLRPC is shipped standard with 5 pin.

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant.

Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

Surge protection (SP1/SP2): Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA. 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

Listings

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most EcoForm configurations are qualified under Premium and Standard DesignLights Consortium® categories. Consult DLC Qualified Products list to confirm your specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Approved.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: signify.com

Warranty

EcoForm luminaires feature a 5-year limited warranty. See signify.com/warranties for complete details and exclusions.



SUBSTITUTION REQUEST

TO:HOLST Architecture / PAE Consulting Engineering

PROJECT:OSU ARTS AND EDUCATION COMPLEX

SPECIFIED ITEM:Lithonia, SSS Series

Section: E1.01 **Type:** S5-POLE

PROPOSED SUBSTITUTION:Nova Pole, NSS430MD-DP1-DBZ

Attached data includes product description, specifications, drawings, photographs, performance and test data adequate for evaluation of request including identification of applicable data portions.

Attached data also includes description of changes to Contract Documents and proposed substitution requires for proper installation.

Undersigned certifies following items, unless modified by attachments, are correct:

1. Proposed substitution does not affect dimensions shown on drawings.
2. Undersigned pays for changes to building design, including engineering design, detailing, and construction costs caused by proposed substitution.
3. Proposed substitution has no adverse effect on other trades, construction schedule, or specified warranty requirements.
4. Maintenance and service parts available locally or readily obtainable for proposed substitution.

Undersigned further certifies function, appearance, and quality of proposed substitution are equivalent or superior to specified item.

Undersigned agrees, if this page is reproduced, terms and conditions for substitutions found in Bidding Documents apply to this proposed substitution.

Submitted by:

Name (Printed or typed)

David Wray



Signature

Firm Name: Northern Illumination Co. Inc.

Address: 17400 SW Upper Boones Ferry Rd. #270

City, State, Zip: Portland, OR 97224

Date: 8/3/2021

Tel: (503) 226-3633 Fax: (503) 226-3733

General Contractor (if after award of Contract)

For use by A/E

☐ Approved ☒ Approved as noted

☐ Not Approved ☐ Received too late

By **Devon Lute, Landis Consulting**

Date **2021-08-04**

Remarks **Project and arch/eng firm are incorrect on request form.**

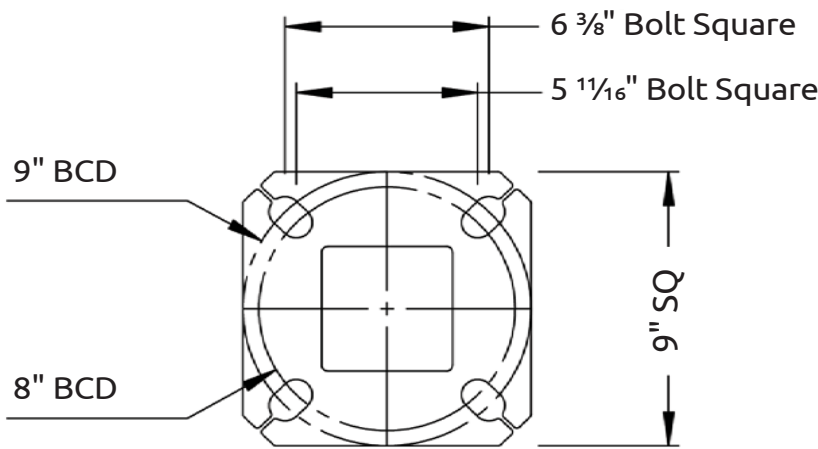
The Construction Specifications Institute
Northwest Region



Advancement
of Construction
Technology

	Description : NSS430MD-DP1-DBZ Project Name: SCSD PARKING LOT UPGRADE Notes:	TYPE: S5-POLE
--	--	-------------------------

4" Straight Square Steel



NSS Type A
 (3/4" x 24" Anchor Bolts)

- If supplied, the festoon box is installed at 5m height. Notify Nova Pole if different mounting height is required.
 - Hand hole ring mounting height is 12" to centre and comes with (3"x5") hand hole cover
 - Wind speeds (mph) in the table denote the maximum wind gust speed at the project site (i.e. gust factor included).
 - Maximum EPA rating includes fixture(s) and supporting arm(s) and is for standard pole installation on concrete bases/footings.
- All poles are supplied with nut covers, shims and top plastic cap.
 - Pole designs based on AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals.
 - Contact Sales Team for custom sizes and/or applications.
 - Specific information and details may be subject to change without notice.
 - Please see [Warranty](#) and [Terms & Conditions](#).



	Description :	NSS430MD-DP1-DBZ	TYPE:	S5-POLE
	Project Name:	SCSD PARKING LOT UPGRADE		
	Notes:			



4" Straight Square Steel

CATALOGUE #						FIXTURE INFO			
PROJECT NAME						QUANTITY			
CITY						EPA (sq.ft.)			
PREPARED BY					DATE	WEIGHT (lbs)			
COMMENTS									

Catalogue #	Pole Height (ft)	Pole Weight (lbs)	Pole Type	Anchor Bolt Size	Base Plate Type	Maximum EPA (sq.ft.)			
						80MPH	90MPH	100MPH	110MPH
NSS410LD	10	80	LD	3/4" x 24"	A	32.0	26.0	21.0	17.0
NSS412LD	12	93	LD	3/4" x 24"	A	27.0	21.5	17.0	14.0
NSS416LD	16	118	LD	3/4" x 24"	A	20.0	15.5	12.0	9.5
NSS418LD	18	131	LD	3/4" x 24"	A	16.5	13.0	10.0	7.5
NSS420LD	20	144	LD	3/4" x 24"	A	14.0	10.5	8.0	6.0
NSS420MD	20	205	MD	3/4" x 24"	A	22.0	17.0	13.0	10.5
NSS424LD	24	170	LD	3/4" x 24"	A	10.0	7.0	5.0	3.5
NSS424MD	24	242	MD	3/4" x 24"	A	16.5	12.0	9.0	7.0
NSS430MD	30	299	MD	3/4" x 24"	A	10.0	7.0	4.5	3.0

Order Entry Info					
HEIGHT (ft)	MOUNTING TYPE <i>(See Note 1)</i>	FINISH TYPE	PC COLOUR	OPTIONS <i>(Click descriptions to view product)</i>	
10 (LD)	TOP TENON MOUNT TT238 - 2 3/8" x 5" tenon TT278 - 2 7/8" x 5" tenon TT350 - 3 1/2" x 5" tenon	PC - Powder Coated	WHT - White (RAL-9003)	<input type="checkbox"/> DUPR - 1110 Box Provision (Festoon Box) <input type="checkbox"/> DUPRGFI - 1110 Box Provision c/w 15A 120V GFI Receptacle and Weatherproof Cover <input checked="" type="checkbox"/> BCP - Type 4 Plastic Base Cover <input checked="" type="checkbox"/> BCCS - Type 4 Cast Square Base Cover <input type="checkbox"/> HHSS - Hand Hole Security System <input checked="" type="checkbox"/> FBA1 - Flower Basket Arm One Side <i>(See Note 2)</i> <input checked="" type="checkbox"/> FBA2 - Flower Basket Arm Dual <i>(See Note 2)</i> <input checked="" type="checkbox"/> BA1 - Banner Arms One Side <i>(See Note 3)</i> <input checked="" type="checkbox"/> BA2 - Banner Arms Dual <i>(See Note 3)</i> <input type="checkbox"/> AB - Anchor Bolts <input type="checkbox"/> BH - Bullhorns Select Bullhorn <input type="checkbox"/> N - None	
12 (LD)		NTPC - Nova Tuff Powder Coated <i>(Colour Chart)</i>	BLK - Black (BK50)		
16 (LD)		GALV - Galvanized	DBZ - Dark Bronze (RAL-8019)		
18 (LD)	SIDE TENON MOUNT <i>Dimensions: 2 3/8" dia. x 5" long</i> ST1 - Single Head ST2180 - 2 Heads at 180 ST290 - 2 Heads at 90 ST390 - 3 Heads at 90 ST490 - 4 Heads at 90	GALVPC - Galvanized and Powder Coated	GRY - Grey (RAL-7040)		
20 (LD)		GALVNT - Galvanized and Nova Tuff Powder Coated	GRN - Green (RAL-6005)		
20 (MD)		DRILL PATTERN DP1 - Single Head DP2180 - 2 Heads at 180 DP290 - 2 Heads at 90 DP390 - 3 Heads at 90 DP490 - 4 Heads at 90	<i>For PC or GALVPC, please select Colour from next column</i>		CC - Custom Colour (RAL-) <i>(Additional charges may apply)</i>
24 (LD)			N - None		
24 (MD)			<i>For Nova Tuff, please provide RAL# under CC</i>		
30 (MD)		N - None			
Height	Mounting	Finish Type	PC Colour		Options
NSS4 Select	Select Mounting	Select Finish	Select PC Colour		

Pole Type: LD = Light Duty, MD = Medium Duty, HD = Heavy Duty

Sample Catalogue #: NSS416LD-ST1-GALVPC-BLK-HHSS-BA1

Note 1: Please provide fixture cutsheet.

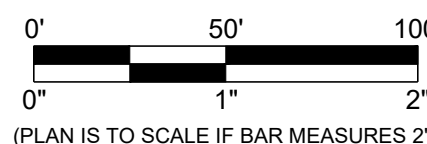
Note 2: Please provide basket weight, arm length and mounting height.

Note 3: Please provide banner size and mounting height.


Reset Order Entry Form

RESET

Sheet No
C0.01



Revisions		
No.	Description	Date
1	ADDENDUM #1	07/21/2021
2	ADDENDUM #2	08/06/2021



Stamp

REGISTERED PROFESSIONAL
ENGINEER
16,650
DIGITAL SIGNATURE
OREGON
JULY 20, 1993
GREG D. LOCKE

EXPIRES: 12-31-2022

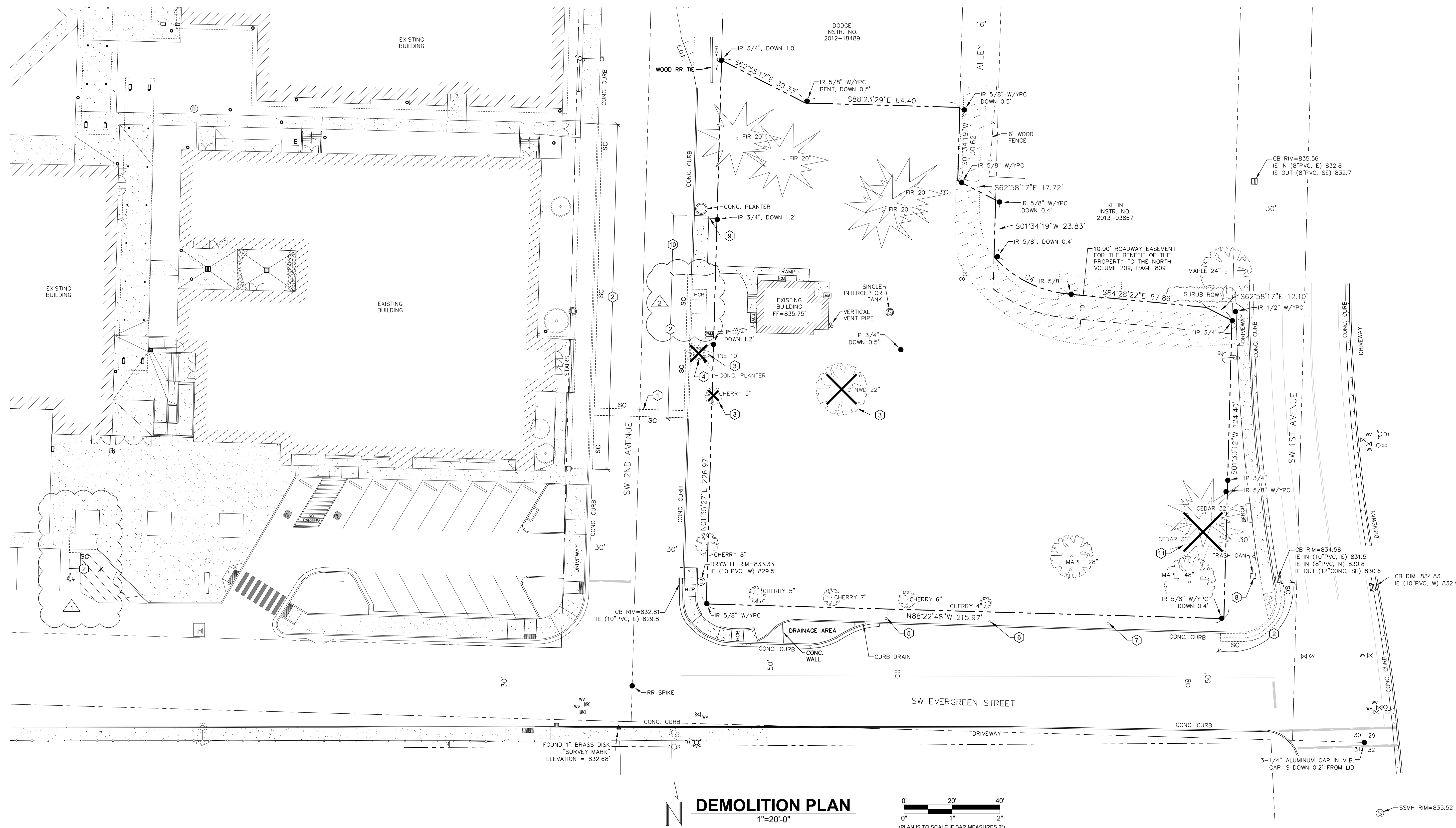
Only the electronic version of this document with a digital signature per OAR 820-010-0620(5) is an original. Contact Engineer of Record for electronic file. An authentic document is not needed or authenticity is in question.

Issuance	
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Date
07/09/2021Project Number
19056.006

Drawing Title
DEMOLITION PLAN

Sheet No
C1.01

KEYED DEMOLITION PLAN NOTES :

GENERAL
DEMOLITION NOTES SPECIFICALLY CALLED OUT ON PLAN ARE IN ADDITION TO ANY INCIDENTAL OR OTHER DEMOLITION NECESSARY TO PERFORM THE REQUIRED WORK. NOT ALL REQUIRED DEMOLITION WORK MAY HAVE BEEN IDENTIFIED. SEE DEMO PLANS OF ARCHITECT AND OTHER CONSULTANTS FOR OTHER ITEMS OF DEMOLITION NOT RELATED TO CIVIL DESIGN.

REMOVAL OF AC IN SOME AREAS MAY ALSO REQUIRE REMOVAL OF BASE ROCK IN ORDER TO ACHIEVE THE PROPER FINISH ROCK ELEVATION PRIOR TO PAVING. LOCATION OF SAWCUTS AND EXTENTS OF PAVEMENT REMOVAL IS SCHEMATIC AND NOT NECESSARILY THE FULL EXTENT NEEDED TO PERFORM THE WORK. CONTRACTOR IS RESPONSIBLE TO INCLUDE WITHIN HIS BID, THE EXTENTS HE FEELS IS NEEDED TO PROPERLY COMPLETE THE WORK.

PROTECT EXISTING SIDEWALKS AND PAVED AREAS FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. CONTRACTOR SHALL REPAIR DAMAGED SURFACES SCHEDULED TO REMAIN AT THEIR OWN EXPENSE.

EXISTING UTILITIES ARE TO REMAIN FUNCTIONAL DURING ENTIRE PROJECT. LOCATIONS AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND BASED ON FIELD SURVEY. ARCHIVE PLANS AND AVAILABLE RECORDS. TAKE PRECAUTIONS TO LOCATE AND PROTECT UTILITIES AGAINST DAMAGE. IDENTIFY AND MARK LOCATION OF WATER SHUTOFF VALVES WITH OWNER PRIOR TO START OF EXCAVATION.

1. SAWCUT EDGES OF AFFECTED ASPHALT AREA, EXCAVATE AND REMOVE AC IN PREPARATION FOR UTILITY TRENCHING AND INLAY OF NEW AC PATCH. AREA INDICATED ON PLAN IS APPROXIMATE IN SIZE AND LOCATION. VERIFY EXTENTS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
2. SAWCUT AND REMOVE SECTION OF EXISTING CURB, SIDEWALK AND 18" WIDE SECTION OF ADJACENT EXISTING ASPHALT. VERIFY EXTENTS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS. TAKE STEPS TO PROTECT ADJACENT EXISTING IMPROVEMENTS TO REMAIN.
3. REMOVE AND DISPOSE OF EXISTING TREE AND/OR STUMP. CLEAR AND GRUB ROOT BALL ACCORDING TO SPECIFICATIONS.
4. REMOVE EXISTING CONCRETE PLANTER AND CONTAINED SOIL.
5. REMOVE EXISTING "SCHOOL CROSSING" SIGN AND POST. SALVAGE FOR REINSTALLATION.
6. REMOVE EXISTING "SPEED BUMPS AHEAD" SIGN AND POST. SALVAGE TO CITY OF MILL CITY PUBLIC WORKS DEPARTMENT.
7. REMOVE EXISTING "SCHOOL SPEED" SIGN AND POST. SALVAGE FOR REINSTALLATION.
8. REMOVE EXISTING TRASH CAN DURING CONSTRUCTION OF STORMWATER IMPROVEMENTS IN VACUITY. RECONSTRUCT PAD TO MATCH EXISTING CONDITION IF IT IS DAMAGED DURING CONSTRUCTION. COORDINATE WITH CITY OF MILL CITY PUBLIC WORKS STAFF.
9. AT THE COMPLETION OF PARKING LOT CONSTRUCTION REMOVE EXISTING ACCESSIBLE PARKING SIGN AND POST. SALVAGE TO CITY OF MILL CITY PUBLIC WORKS DEPARTMENT.
10. AT THE COMPLETION OF PARKING LOT CONSTRUCTION OBLITERATE HANDICAP SYMBOL AND BLUE CURB PAINT.
11. REMOVE AND DISPOSE OF DEAD TREE. GRIND STUMP PER SPECIFICATIONS.



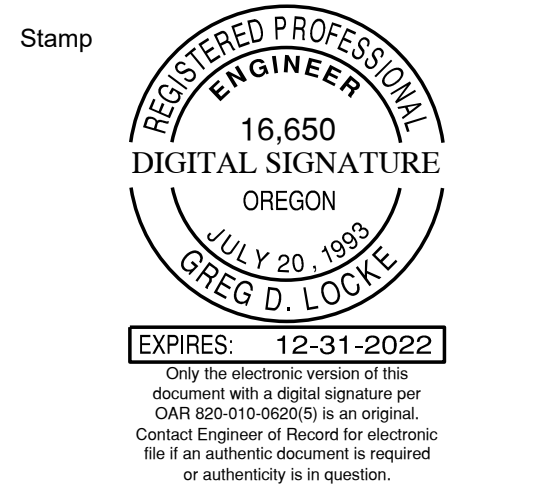
GENERAL
SITE PLAN NOTES SPECIFICALLY CALLED OUT ON PLAN ARE IN ADDITION TO ANY INCIDENTAL WORK NECESSARY TO PERFORM THE REQUIRED WORK. NOT ALL REQUIRED WORK MAY HAVE BEEN IDENTIFIED. SEE ARCHITECTURAL, PLUMBING AND ELECTRICAL PLANS FOR ADDITIONAL SITE WORK REQUIREMENTS.

2. EXISTING TREE TO REMAIN. PROTECT IN ACCORDANCE WITH LANDSCAPE PLANS.
3. EXISTING GRAVEL DRIVEWAY TO REMAIN. COORDINATE WITH NEIGHBORS FOR TEMPORARY CLOSURE DURING CONSTRUCTION.
3. EXISTING BUILDINGS AND ACCESSORY INFRASTRUCTURE TO REMAIN WITH CLOSE PROXIMITY TO PROPOSED IMCVENTS. PROTECT DURING CONSTRUCTION. COORDINATE WITH OWNER FOR TEMPORARY DISCONTINUATION OF ACCESS OR UTILITY SERVICE.
4. CONSTRUCT REPLACEMENT CURB AND SIDEWALK BETWEEN RECENTLY IMPROVED ZONES PER DETAIL 12 ON SHEET C5.01. MATCH EXISTING TOP OF CURB GRADES PER GRADING PLAN ON SHEET C1.03. TAKE CARE TO EXISTING STEPS TO REMAIN TO MATCH EXISTING TREAD DIMENSION AT LOWEST STEP. MATCH EXISTING CURB EXPOSURE TO MAINTAIN DRAINAGE PATH TO SOUTH.
5. A CITY OF MILL CITY PAVEMENT IMPROVEMENT PROJECT WILL REPLACE AND/OR REHAB THE ASPHALT BETWEEN SW 2ND AVENUE. COORDINATE WITH CITY OF MILL CITY PUBLIC WORKS STAFF TO PERFORM T MATCH EXISTING SIDEWALK REPLACEMENT WORK BEFORE THE CITY PROJECT IF POSSIBLE.
5. CONSTRUCT DRIVEWAY APPROACH PER OPTION N FULLY "LOWED SIDEWALK" OF OREGON STANDARD DRAWING RD750 ON SHEET C5.11. PATCH ASPHALT PER DETAIL 12 ON C5.01.
6. A CITY OF MILL CITY PAVEMENT IMPROVEMENT PROJECT WILL REPLACE AND/OR REHAB THE ASPHALT BETWEEN SW 2ND AVENUE. COORDINATE WITH CITY OF MILL CITY PUBLIC WORKS STAFF TO PERFORM T MATCH EXISTING SIDEWALK REPLACEMENT WORK BEFORE THE CITY PROJECT IF POSSIBLE.
6. CONSTRUCT SIDEWALK ADJACENT TO EXISTING CONCRETE CURB PER OREGON STANDARD DRAWING RD720 ON SHEET C5.11. MATCH EXISTING TOP OF CURB UNLESS NOTED OTHERWISE.
7. CONSTRUCT "TYPE C" CONCRETE CURB PER DETAIL 10 ON SHEET C5.01 ADJARKING LOT PERIMETER.
8. CONSTRUCT "TYPE A" CONCRETE CURB PER DETAIL 10 ON SHEET C5.01 PARKING LOT TO PARKING LOT INTERIOR SWALE.
9. CONSTRUCT 18" WIDE SWALE INLET CURB OPENINGS PER DETAIL 11 ON SHEET C5.01. LOCATE AT VES END OF SWALE, AT EACH VALLEY LOW POINT, AND AT 18' O.C. IN BETWEEN AS SHOWN.
10. INSTALL WHEEL STOP AT EACH PARKING SPACE ADJACENT TO LIGHT POLE BASE, (4) TOTAL WHEEL STOP LOCATIONS.
11. CONSTRUCT CONCRETE SIDEWALK SIMILAR TO DETAIL 10 ON SHEET C5.01.
12. REINSTALL "SCHOOL CROSSING" SIGN ON NEW POST PER DETAIL 8 ON SHEET C5.01.
13. REINSTALL "SCHOOL SPEED" SIGN ON NEW POST PER DETAIL 8 ON SHEET C5.01.
14. UTILITY TRENCH ASPHALT PATCH PER DETAIL 1, ON C5.02.
15. PARKING SPACE STRIPE TO BE 4' WHITE LINE MEETING THE REQUIREMENTS OF THE PROJECT TECHNICAL SPECIFICATIONS.
16. FLAT-BOTTOMED STORMWATER COLLECTION SWALE, SEE SWALE SECTION, C ON SHEET C2.01.
17. CONSTRUCT ASPHALT PAVEMENT SECTION "TYPE A" PER DETAIL 9 ON SHEET C5.01.

19. CONSTRUCT REPLACEMENT CURB AND SIDEWALK SIMILAR TO DETAIL 12 ON SHEET CS.01. SET GRADE PER GRADING PLANS ON SHEET C1.03.
20. RESTRIPE PARKING SPACE LINES DISTURBED BY CONSTRUCTION. PARKING SPACE STRIPE TO BE A WHITE LINE MEETING THE REQUIREMENTS OF THE PROJECT TECHNICAL SPECIFICATIONS.
21. PAINT CURB TOP AND CURB FACE RED. PAINTED ZONE TO BE 30' LONG WITH NORTH EDGE OF PAINTED ZONE DIRECTLY EAST OF EXISTING GYM STAIR NORTH EDGE. PAINT MINIMUM 4" TALL WHITE BLOCK FONT LETTERS READING "NO PARKING FIRE LANE" ON TOP FACE OF CURB AT EACH END OF PAINTED ZONE.
22. CONSTRUCT REPLACEMENT CURB AND SIDEWALK PER DETAIL 12 ON SHEET CS.01. MATCH EXISTING T CURB GRADUES PER GRADING PLANS ON SHEET C1.03. MATCH EXISTING CURB EXPOSURE TO MAINTAIN DRAINAGE PATH TO SOUTH.
- A CITY OF MILL CITY PAVEMENT IMPROVEMENT PROJECT WILL REPLACE AND/OR REHAB THE ASPHALT DRIVE SW AND AVENUE SW AND COORDINATE WITH CITY OF MILL CITY PUBLIC WORKS STAFF TO PERFORM T CURB AND SIDEWALK REPLACEMENT WORK BEFORE THE CITY PROJECT IF POSSIBLE.



Revisions	No.	Description	Date
	1	ADDENDUM #1	07/21/2021
	2	ADDENDUM #2	08/06/2021



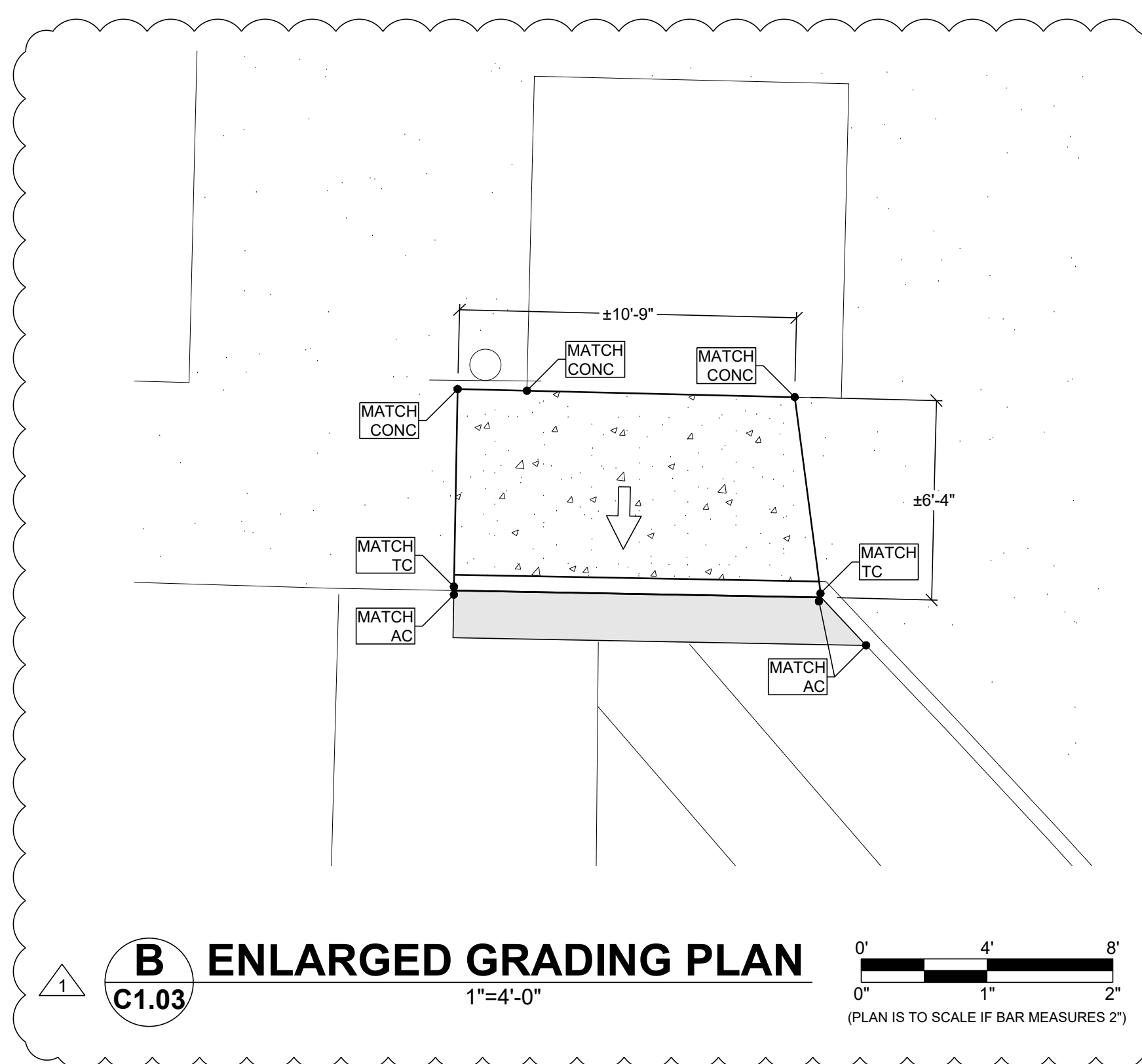
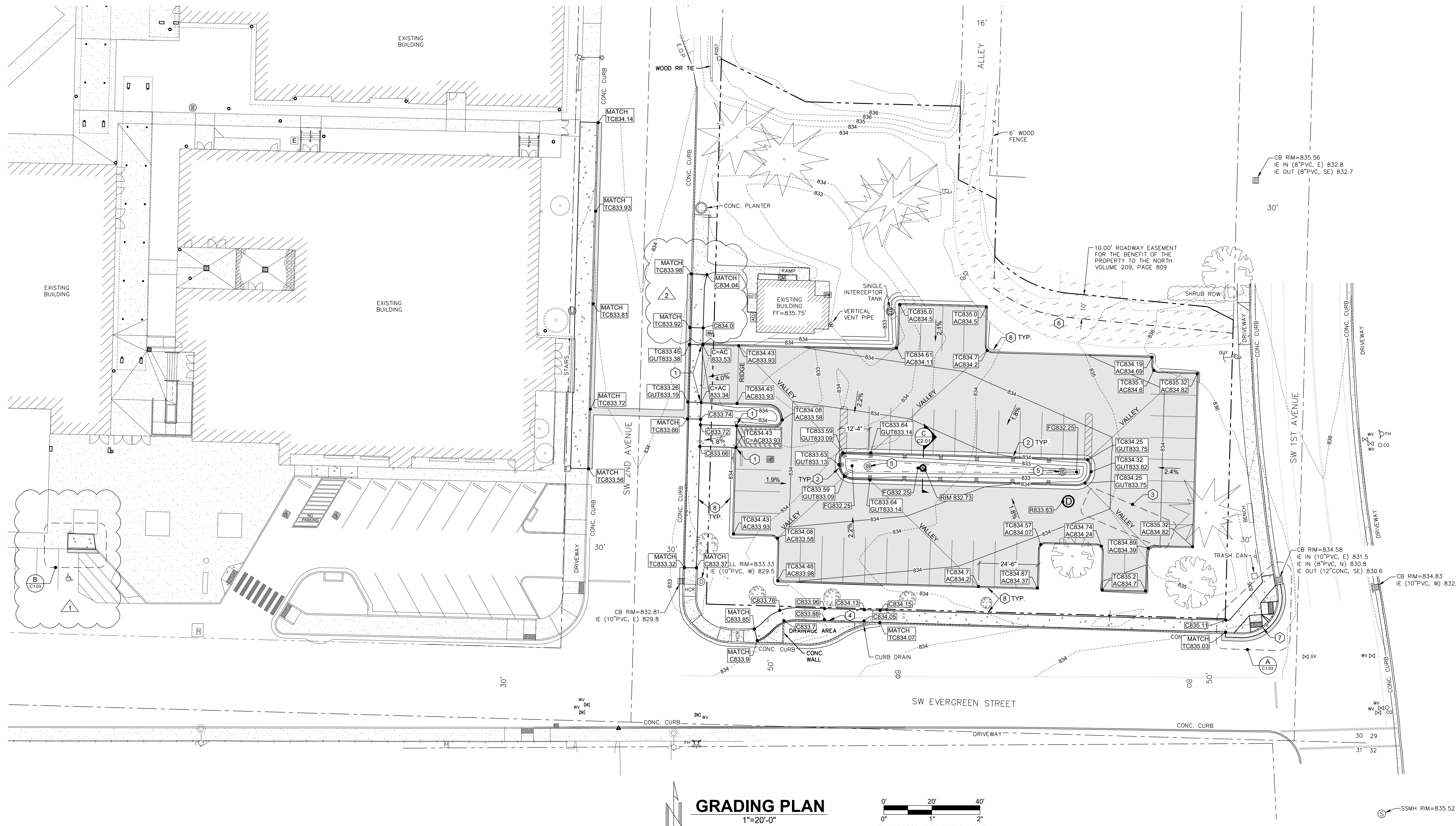
Issuance

Date
07/09/2021

Project Number
19056.006

Drawing Title
GRADING PLAN

Sheet No.
C1.03



KEYED GRADING PLAN NOTES

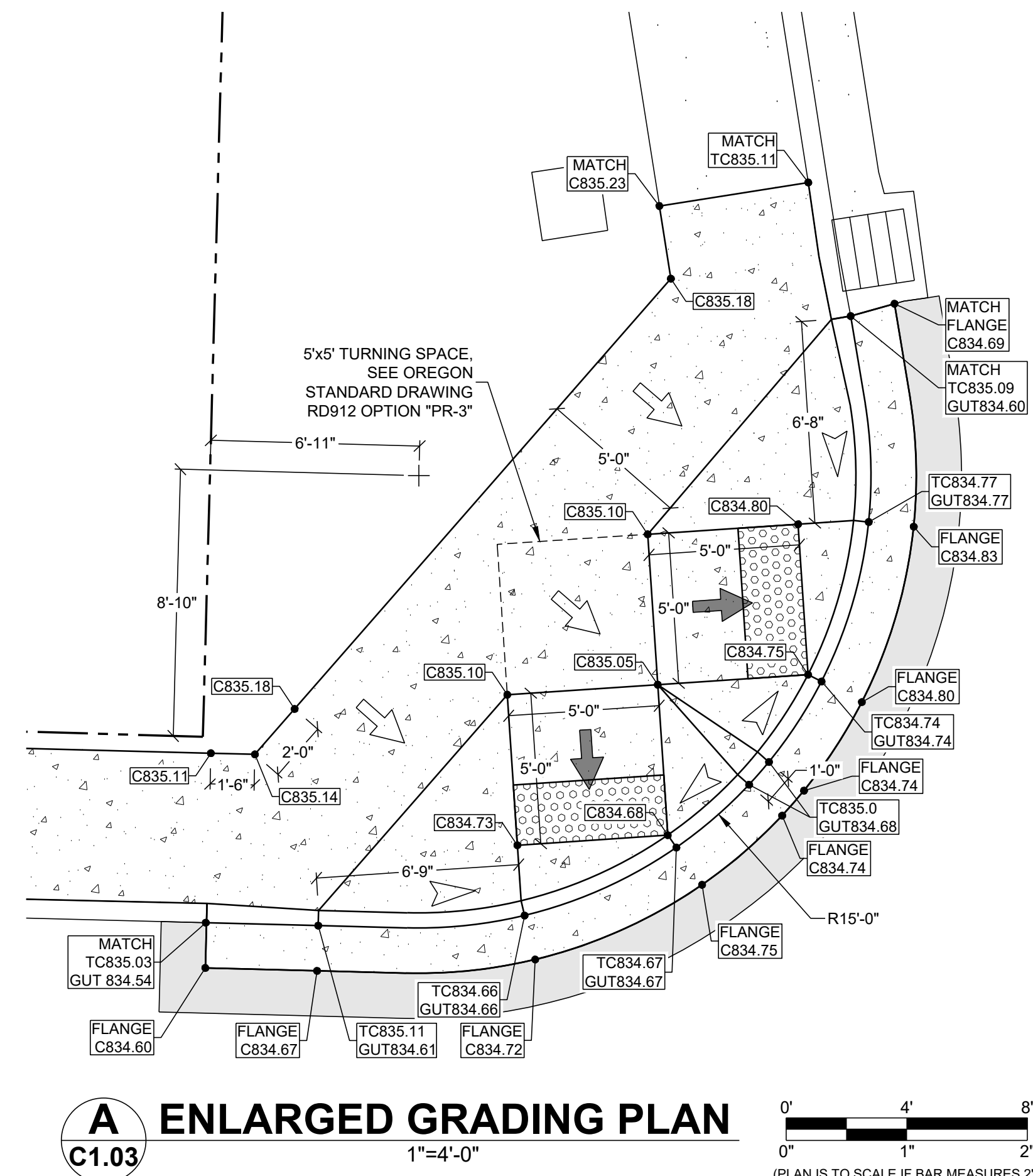
- GENERAL GRADING PLAN NOTES SPECIFICALLY CALLED OUT ON PLAN ARE IN ADDITION TO ANY INCIDENTAL OR OTHER GRADING NECESSARY TO PERFORM THE REQUIRED WORK. NOT ALL REQUIRED GRADING MAY HAVE BEEN IDENTIFIED. SEE PLANS OF ARCHITECT AND OTHER CONSULTANTS FOR OTHER ITEMS NOT RELATED TO CIVIL DESIGN.
1. TAPER CURB EXPOSURE FROM STANDARD 6" EXPOSURE TO 0" OVER 6" OF CURB LENGTH.
 2. AT SWALE INLET CURB OPENINGS TAPER CURB EXPOSURE FROM STANDARD 6" EXPOSURE TO 0" OVER 12" OF CURB LENGTH. SEE SITE PLAN FOR NUMBER AND LOCATION OF OPENINGS.
 3. APPROXIMATE EXTENTS OF UNDERGROUND STORMWATER STORAGE GALLERY. FOLLOW MANUFACTURER'S REQUIREMENTS FOR PLACEMENT OF GEOGRID, MINIMUM COVER, LOCATION AND CONSTRUCTION OF MAINTENANCE PORTS, AND CONSTRUCTION OF PAVEMENT SECTION OVER GALLERY. SEE UNDERGROUND STORMWATER STORAGE GALLERY SECTIONS AND DETAILS ON SHEET C2.01.
 4. CUT 4" WIDE DRAINAGE NOTCHES IN EXISTING PLANTER WALL AT SIDEWALK LOW POINT AND AT 6' O.C. TO EAST. DO NOT CUT DRAINAGE NOTCHES WEST OF EXISTING CONCRETE WALL IN PLANTER SEPARATING LANDSCAPED ZONE FROM DRAIN ROCK ZONE. DEPRESS INVERT OF NOTCH 1" BELOW LEVEL OF SIDEWALK EDGE SLOPE TOWARD RAINGARDEN SURFACE.
 5. LIGHT POLE BASE. SEE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
 6. EXISTING GRAVEL DRIVEWAY TO REMAIN.
 7. CONSTRUCT NEW CURB RAMP PER OREGON STANDARD DETAIL, RD912, OPTION "PR-3", SEE ENLARGED GRADING PLAN A ON THIS SHEET FOR MORE INFORMATION.
 8. GROUND SLOPES BEHIND CURBS AND WALKS WHERE TIEING INTO EXISTING GROUND TO BE CONSTRUCTED PER DETAIL 10 ON SHEET C5.01.

LEGEND	
	SLOPE 7.5% TYP. (MAX. 8.3% FINISHED SURFACE SLOPE)
	SLOPE 1.5% TYP. (MAX. 2.0% FINISHED SURFACE SLOPE)
	FLARE SLOPE (MAX. 10% FINISHED SURFACE SLOPE)
	DETECTABLE WARNING SURFACE PER OREGON STANDARD DRAWINGS RD902 TO RD908

ADA NOTE FOR SIDEWALK, CURB, DRIVEWAY

ALL SIDEWALK CURB RAMP FORMS NEED TO BE VERIFIED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION OF THE RAMP.

CONTRACTOR SHALL EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ALL SIDEWALKS, SIDEWALK CURB RAMP, AND DRIVEWAY APPROACHES. SIDEWALK, SIDEWALK CURB RAMP, AND DRIVEWAY APPROACH CONSTRUCTION SHALL FULLY COMPLY WITH LOCAL, STATE, AND FEDERAL AMERICANS WITH DISABILITY ACT (ADA) ACCESSIBILITY GUIDELINES, CODES, AND REGULATIONS, OR SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.





Project

Consultant

Locke CIVIL & STRUCTURAL
ENGINEERS

289 E Ellendale Avenue, Suite 703
Dallas, Oregon 97338

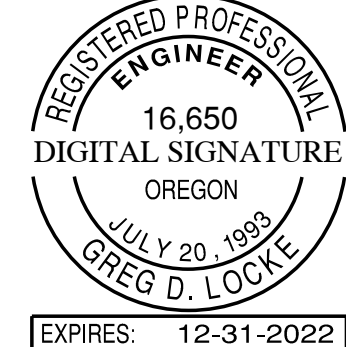
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LockeEngineers.com
J.O. 19035-1AS1

Revisions

No.	Description	Date
1	ADDENDUM #1	07/21/2021
2	ADDENDUM #2	08/06/2021

Stamp



Issuance

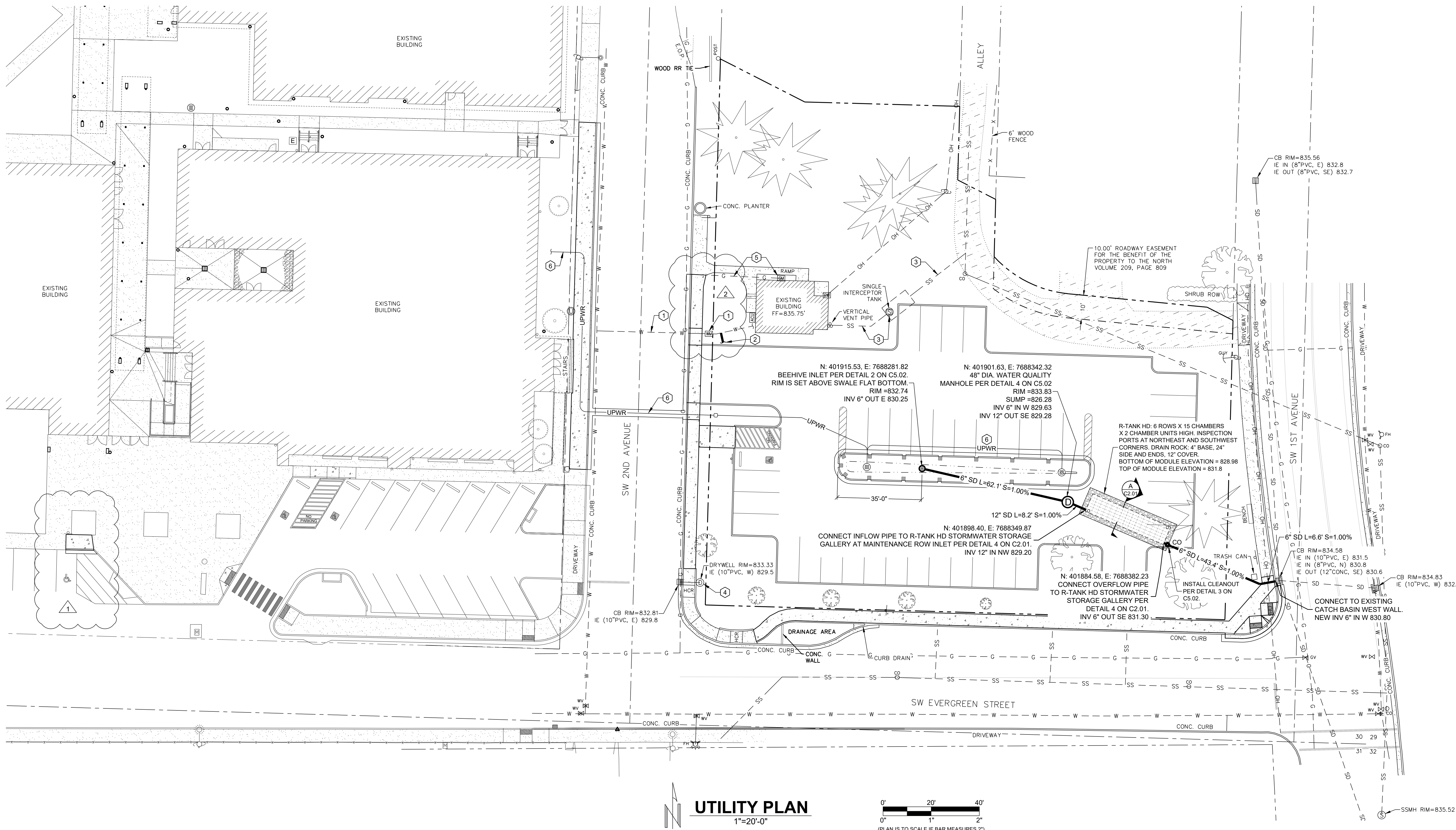
Date
07/09/2021

Project Number
19056.006

Drawing Title
UTILITY PLAN

Sheet No

C1.04



GENERAL UTILITY PLAN NOTES

- ALL CONSTRUCTION IN A PUBLIC RIGHT-OF-WAY OR EASEMENT SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTIONS STANDARD CONSTRUCTION SPECIFICATIONS AND ANY SPECIAL PROVISIONS INCLUDED AS A PART OF THE APPROVED PLANS.
- OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0100. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER, THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 503-232-1987.
- SEE SITE PLANS FOR DIMENSIONS, PARKING LAYOUTS, SIDEWALK WIDTHS, AND SIMILAR INFORMATION.
- VERIFY EXACT POSITIONS OF UTILITY INSTALLATIONS AND SERVICE ENTRY POINTS WITH LANDSCAPE AND ELECTRICAL PLANS, DESIGNED BY OTHERS.
- CONSTRUCT PRIVATE UTILITY TRENCH BEDDING AND BACKFILL PER DETAIL 1 ON C5.02.
- STORM DRAIN PIPE MATERIAL:
 - WITHIN 5' OF A BUILDING FOUNDATION:
 - USE ASTM 1785 SCHEDULE 40 PVC PIPE WHERE COVER IS 12 INCHES OR GREATER.
 - USE ANSI CLASS 50 DUCTILE IRON PIPE WHERE COVER IS LESS THAN 12 INCHES.
 - BEYOND 5' OF A BUILDING FOUNDATION:
 - USE ASTM D3034 SDR35 PVC PIPE WHERE COVER IS 24 INCHES OR GREATER.
 - USE ASTM 1785 SCHEDULE 40 PVC PIPE WHERE COVER IS 12 INCHES OR GREATER.
 - USE ANSI CLASS 50 DUCTILE IRON PIPE WHERE COVER IS LESS THAN 12 INCHES.
- STORM DRAIN PIPE SIZE AND SLOPE
 - ALL STORM DRAIN PIPE SLOPES TO BE 0.01'/FT. MINIMUM UNLESS NOTED OTHERWISE.
 - ALL STORM DRAIN SIZING PER OPSC DESIGN METHOD UNLESS PIPE IS MARKED WITH A SLOPE LESS THAN 0.01'/FT.
 - PIPE SLOPES INDICATED ARE APPROXIMATE MINIMUM SLOPES BASED ON THE STATED INVERTS. INSTALL PIPES ACCORDING TO INVERTS NOTED ON PLAN AND IN STRUCTURE SCHEDULE.
 - UNLESS NOTED OTHERWISE ALL FITTINGS ARE TO BE CONCENTRIC. PIPE INVERT ELEVATIONS NOTED AT FITTINGS ARE CALCULATED FOR THE LARGEST DIAMETER PIPE CONNECTED TO THAT FITTING. TEES TO BE SANITARY TEE OR WYE WITH 1/8 TH BEND.
- CLEANOUTS ON STORM DRAIN PIPING TO BE SPACED MAXIMUM OF 100 FEET APART. CLEANOUTS ARE REQUIRED FOR EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING 135 DEGREES (OPSC 707).
 - FOR 4" RISER PIPE, COVER ON SANITARY SEWER AND STORM DRAIN CLEANOUT TO BE TYPICALLY 18" TALL CAST IRON 910 VALVE BOX AND COVER, AT SHALLOW PIPE DEPTH, 10" CAST IRON 950 VALVE BOX AND COVER IS ACCEPTABLE. INSTALL FLUSH WITH FINISHED GRADE. SEE DETAIL 9 ON C5.03. ALTERNATE CONCRETE BROOKS VALVE BOX IS ACCEPTABLE.
 - FOR 6" RISER PIPE, USE 8" INSIDE DIAMETER EXTENSION AND 10"x12" CONCRETE BODY WITH CAST IRON RING AND CAST IRON TRAFFIC COVER, MODEL 3-RT AS MANUFACTURED BY BROOKS PRODUCTS, INC., OR APPROVED EQUAL. FOR SHALLOW PIPE DEPTH, USE 10"x12" CONCRETE BODY WITH CAST IRON RING AND CAST IRON TRAFFIC COVER, MODEL 3-RT AS MANUFACTURED BY BROOKS PRODUCTS, INC., OR APPROVED EQUAL.

KEYED UTILITY PLAN NOTES (K):

- GENERAL UTILITY NOTES SPECIFICALLY CALLED OUT ON PLAN ARE IN ADDITION TO ANY INCIDENTAL WORK NECESSARY TO PERFORM THE REQUIRED WORK. NOT ALL REQUIRED UTILITY WORK MAY HAVE BEEN IDENTIFIED. SEE ARCHITECTURAL, PLUMBING AND ELECTRICAL PLANS FOR ADDITIONAL UTILITY WORK.
- EXISTING UTILITIES ARE TO REMAIN FUNCTIONAL DURING ENTIRE PROJECT. LOCATIONS AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND BASED ON FIELD SURVEY, ARCHIVE PLANS AND AVAILABLE RECORDS. TAKE PRECAUTIONS TO LOCATE AND PROTECT UTILITIES AGAINST DAMAGE. IDENTIFY AND MARK LOCATION OF WATER SHUTOFF VALVES WITH OWNER PRIOR TO START OF EXCAVATION.
- EXISTING DOMESTIC WATER SERVICE AND METER TO REMAIN, PROTECT DURING CONSTRUCTION.
 - IRRIGATION POINT OF CONNECTION, SEE LANDSCAPE PLANS FOR CONTINUATION.
 - EXISTING SANITARY SEWER SERVICE PIPE AND INTERCEPTOR TANK TO REMAIN, PROTECT DURING CONSTRUCTION. RAISE INTERCEPTOR TANK ACCESS TO NEW FINISH GRADE.
 - EXISTING DRYWELL ACCEPTING STORMWATER RUNOFF FROM EXISTING 2ND STREET CATCH BASIN TO REMAIN, PROTECT DURING CONSTRUCTION. PROTECT INLET PER NOTES ON GRADING PLAN.
 - EXISTING NATURAL GAS SERVICE PIPE AND METER TO REMAIN, PROTECT DURING CONSTRUCTION.
 - APPROXIMATE LOCATION OF NEW ELECTRICAL CONDUIT FOR SERVICE TO NEW PARKING LOT LIGHTING, SEE ELECTRICAL SITE PLAN FOR DESIGN DETAILS.



SANTIAM CANYON SCHOOL DISTRICT
SANTIAM CANYON JR/SR HIGH SCHOOL
PARKING LOT UPGRADE PROJECT
PRE-BID MEETING
SIGN IN
JULY 28, 2021

Company: Knife River Contact: Brodie Harvey
Address: 32260 Old Hwy 34, Tangent, OR 97389
Email: brodie.harvey@kniferiver.com
Phone: 503-764-6435 Cell: _____

Company: North Santiam Paving Contact: Reid Highberger
Address: PO BOX 516, Stayton, OR 97383
Email: quotes@nspor.com
Phone: 503-769-3436 Cell: _____

Company: River Bend Construction Contact: James Kerr
Address: PO Box 12095, Salem, OR 97309
Email: james.kerr@rbmaterials.com
Phone: _____ Cell: 503-932-0315

Company: Siegmund Excavation & Construction Contact: Andrew
Address: PO Box 840, Stayton, OR 97383
Email: andrew@siegmundcompanies.com
Phone: 506-769-6280 Cell: 503-932-3888