

NOTES:

REFERENCE POINT OF LIGHT POLES IS THE CENTER OF THE POLE

USE PHILIPS HADCO LED RL54, WIDE REFRACTIVE GLOBE. ALL NEW CARLYLES TO BE UNION METAL CORP. DESIGN NUMBER P874-730-B134-Y3.

USE UNION METAL CORP. DESIGN NUMBER N1059-Y1 ORNAMENTAL CAST ALUMINUM BLACK COLOR TWIN LUMINAIRE ARM.

*INCLUDES REMOVING POLE, REMOVING AND RESTORING POLE FOUNDATION, REMOVING AND RESTORING/INSTALLING 4 S.Y. SIDEWALK.

NOTE: SHEET F15.3 NOT USED

LUMINAIRE SCHEDULE						
DESCRIPTION	WATTS	LUMENS	POLE HEIGHT	COLOR OF POLES	LLF	
69 Watts, Arlington County Standard LED Carlyle Light	69	8641	16'	Black	0.95	

COLUMBIA PIKE PHOTOMETRIC (ILLUMINANCE IN FOOT CANDLES) COMPARISON FOR SEGMENT F						
FACILITY	TARGET		PROPOSED			REQUIREMENTS MET?
	AVG	MIN	AVG	MIN	AVG/MIN	
Signalized Intersections (Overall)	1.2	0.2	2.0	0.8	2.5	YES
Unsignalized Intersection (Overall)	1.2	0.2	2.0	1.3	1.5	YES
Crosswalk	1.4	0.3	2.2	0.7	3.1	YES
Sidewalk	1.3	0.2	1.7	0.3	5.5	YES
Roadway	1.3	0.2	1.6	0.4	3.9	YES

COLUMBIA PIKE SEGMENT F SERVICE POLES								
SERVICE POLE	SHEET NO.	SERVICE LOCATION	CIRCUIT BREAKER SIZE		WIRE SIZE		CIRCUIT	CARLYLE LIGHT POLES SERVED
			EXISTING	PROPOSED MIN.	EXISTING	PROPOSED MIN.		
SP14	F15.12	S. Thomas St.	(1) 10 amp	20 amp	3#8	3#6	A	LP100, LP101, LP102, LP104, LP106, LP107, LP111, LP112, LP113, LP114, LP116
				20 amp		3#6	B	LP167, LP168, LP169, LP172, LP173, LP174, LP178, LP179, LP180, LP181, LP182, LP183
SP11	F15.9	S. Quincy St.	(1) 40 amp	20 amp	3#4, 3#6, 3#8	3#6	A	LP185, LP119, LP120, LP121, LP122, LP124, LP126, LP129
				20 amp		3#6	B	LP159, LP160, LP161, LP162, LP163, LP165
SP10	F15.7	S. Oakland St.	(3) 20 amp	20 amp	3#8	3#6	A	LP131, LP132, LP133, LP135, LP136, LP138, LP141, LP142
				20 amp		3#6	B	LP146, LP147, LP150, LP152, LP153, LP155, LP156, LP144, LP143, LP184

ADDITION OF CIRCUIT BREAKERS AND MAIN BREAKERS AND THE COST OF CONNECTING TO EXISTING CIRCUIT BREAKERS AT THE SPECIFIED ELECTRIC SERVICE IS SUBSIDIARY TO THE INSTALLATION OF THE LIGHT POLES. CONTRACTOR SHALL FIELD-VERIFY ALL SERVICE DETAILS. EXISTING LIGHTING SYSTEM SHALL REMAIN OPERATIONAL TO THE EXTENT POSSIBLE DURING EACH CONSTRUCTION PHASE. EXISTING LIGHT POLES, SHOWN AS TO REMAIN IN THE FUTURE, SHALL REMAIN OPERATIONAL IN THE FUTURE.

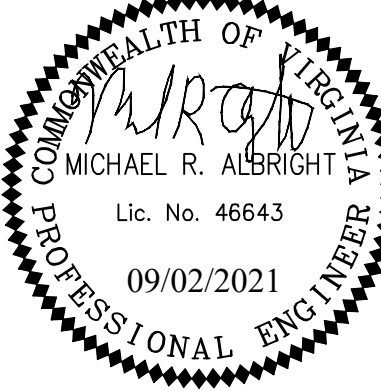


DEPARTMENT OF
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Seal



Approvals	Date
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Design Team Engineer Supervisor

Construction Management Supervisor

Water, Sewer, Streets Bureau Chi

Transportation Director

Project Manager

Revisions	Date
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Designed: DL
 Drawn: DL
 Checked: MRA
 Miss Utility Transmittal #

Filename: 010073-SEG_0-0.dwg
 Path: K:\NVA_RDWY\110010073_Columbia Pike Multimodal Production\Ta
 7.5 Final Design of Columbia Pike Segments\Segment F\7.5.2 - 100%
 Design\PlanSheets
 Plotted: September 02, 2021
 Plotted by: patrick.husted

SERVICE POLE 10 VOLTAGE DROP CALCULATIONS
PROJECT ELECTRICAL DESIGN DATA
SERVICE VOLTAGE: 120 VOLT
SYSTEM PHASES: 3 WIRE W/ GND
CONDUIT TYPE: RMC CONDUIT
POWER FACTOR: 0.9
MAXIMUM VOLTAGE DROP: 5 %

FEDER CONDUCTORS

REF #	FROM	TO	RUN#	DISTANCE (FT)	CONDUCTOR PROPERTIES				BRANCH FROM NODE				TOTAL		CURRENT (A)	NODE VOLTAGE DROP (V)	TOTAL VOLTAGE DROP (V)	NODE VOLTAGE	% VOLTAGE DROP	
					CONDUCTOR SIZE (AWG)	R/1000	X/1000	LINK R (OHM)	LINK X (OHM)	BRANCH	LUMINAIRE QUANTITY	VA	LUMINAIRE QUANTITY	VA						
1	SERVICE #10	CKT A	SE-0101R	50	6	0.491	0.064	0.049	0.006						18	1241.631	21.84	1.03	118.97	0.88%
2	SERVICE #10	CKT B								CKT A	18	1241.631	21.84		20	1379.69	11.50			
3	SERVICE #10	CKT C								CKT B	0	0	0.00		0	0	0.00			
4	SERVICE #10	CKT D								CKT C	0	0	0.00		0	0	0.00			
TOTAL															38	2621.221	33.34			

CIRCUIT: CKT A

REF #	FROM	TO	RUN#	DISTANCE (FT)	CONDUCTOR PROPERTIES				LINK R (OHM)	LINK X (OHM)	BRANCH FROM NODE		TOTAL		CURRENT (A)	NODE VOLTAGE DROP (V)	TOTAL VOLTAGE DROP (V)	NODE VOLTAGE	% VOLTAGE DROP
					CONDUCTOR SIZE (AWG)	R/1000	X/1000	LINK R (OHM)			LUMINAIRE QUANTITY	VA	LUMINAIRE QUANTITY	VA					
1	SERVICE #10	LP142		55	6	0.491	0.064	0.054	0.007	2	68.5	1241.631	10.35	0.53	18	118.44	0.45%		
2	GROUND BOX	LP141		40	6	0.491	0.064	0.020	0.003	2	68.5	1103.872	9.20	0.17	16	118.27	0.59%		
3	GROUND BOX	LP138		140	6	0.491	0.064	0.099	0.005	2	68.5	1103.872	9.20	0.35	16	117.92	0.88%		
4	LP141	LP138		210	6	0.491	0.064	0.206	0.027	2	68.5	865.713	8.05	1.59	2.64	118.33	2.20%		
5	LP138	LP135		140	6	0.491	0.064	0.142	0.019	2	68.5	827.754	6.90	0.94	3.08	118.39	2.88%		
6	LP135	LP132		90	6	0.491	0.064	0.098	0.012	2	68.5	689.795	5.75	0.49	4.07	114.91	3.39%		
7	LP132	LP131		120	6	0.491	0.064	0.118	0.016	2	68.5	551.836	4.80	0.52	4.99	114.39	3.87%		
8	LP131	LP130		90	6	0.491	0.064	0.098	0.012	2	68.5	413.877	3.45	0.29	4.88	114.10	4.00%		
9	LP130	LP129		105	6	0.491	0.064	0.130	0.013	2	68.5	275.918	2.30	0.23	5.10	113.87	4.28%		
10	LP129	LP128			6	0.491	0.064	0.090	0.000	2	68.5	217.859	1.15	0.00	5.10	113.87	4.28%		
TOTAL															38	2621.221	33.34		

CIRCUIT CKT A VOLTAGE DROP SUMMARY:

BRANCH A	MAX VOLTAGE DROP	%
	5.10	4.25%
		ACCEPTABLE

CIRCUIT: CKT B

REF #	FROM	TO	RUN#	DISTANCE (FT)	CONDUCTOR PROPERTIES				THIS NODE		BRANCH FROM NODE		TOTAL		VA	LUMINAIRE QUANTITY	VA	CURRENT (A)	NODE VOLTAGE DROP (V)	TOTAL VOLTAGE DROP (V)	NODE VOLTAGE	% VOLTAGE DROP							
					CONDUCTOR SIZE (AWG)	R/1000	X/1000	LINK R (OHM)	LUMINAIRE QUANTITY	LUMINAIRE WATTAGE	BRANCH	LUMINAIRE QUANTITY	VA	LUMINAIRE QUANTITY									VA						
BRANCH A																													
1	SERVICE #10	GROUND BOX		70	6	0.491	0.064	0.069	0.009				20	1379.69	11.50	0.76	0.76	118.22	0.63%										
2	GROUND BOX	LP146		60	6	0.491	0.064	0.059	0.008			B	6	413.877	2.00	0.10	0.10	118.22	0.20%										
3	GROUND BOX	LP146		60	6	0.491	0.064	0.059	0.008	2	68.5		14	967.713	8.05	0.45	1.86	117.17	1.52%										
4	LP146	LP147		115	6	0.491	0.064	0.113	0.015	2	68.5		10	827.754	6.90	0.75	2.60	118.37	2.17%										
5	LP147	LP150		120	6	0.491	0.064	0.123	0.016	2	68.5		10	689.795	5.75	0.68	3.28	115.70	2.73%										
6	LP150	LP152		130	6	0.491	0.064	0.128	0.017	2	68.5		8	551.836	4.80	0.56	3.84	115.13	3.20%										
7	LP152	LP153		90	6	0.491	0.064	0.098	0.012	2	68.5		4	413.877	3.45	0.29	4.13	114.84	3.44%										
8	LP153	LP155		120	6	0.491	0.064	0.118	0.016	2	68.5		4	275.918	2.30	0.39	4.39	114.68	3.86%										
9	LP155	LP156		90	6	0.491	0.064	0.098	0.012	2	68.5		0	217.859	1.15	0.10	4.48	114.49	3.74%										
10								0.122	0.048	0.000	0.000		0	0	0.00	0.00	4.48	114.49	3.74%										
TOTAL															38	2621.221	33.34												
BRANCH B																													
1	GROUND BOX	LP144		25	6	0.491	0.064	0.025	0.003	2	68.5		6	413.877	2.00	0.08	0.08	118.89	0.07%										
2	LP144	LP144		75	6	0.491	0.064	0.074	0.010	0.000	0.000		4	275.918	2.30	0.65	0.10	118.73	0.20%										
3	LP144	LP184		155	6	0.491	0.064	0.152	0.020	2	68.5		2	127.958	1.15	0.17	0.41	118.96	0.34%										

CIRCUIT CKT B VOLTAGE DROP SUMMARY:

BRANCH A	MAX VOLTAGE DROP	%
	4.49	3.74%
		ACCEPTABLE

SERVICE POLE 14 VOLTAGE DROP CALCULATIONS
PROJECT ELECTRICAL DESIGN DATA
SERVICE VOLTAGE: 120 VOLT
SYSTEM PHASES: 3 WIRE W/ GND
CONDUIT TYPE: RMC CONDUIT
POWER FACTOR: 0.9
MAXIMUM VOLTAGE DROP: 5 %

FEDER CONDUCTORS

REF #	FROM	TO	RUN#	DISTANCE (FT)	CONDUCTOR PROPERTIES					BRANCH FROM NODE				TOTAL				TOTAL SUMMARY				
					CONDUCTOR SIZE (AWG)	R/1000	X/1000	LINK R (OHM)	LINK X (OHM)	BRANCH	LUMINAIRE QUANTITY	VA	LUMINAIRE QUANTITY	VA	CURRENT (A)	NODE VOLTAGE DROP (V)	TOTAL VOLTAGE DROP (V)	NODE VOLTAGE	% VOLTAGE DROP			
1	SERVICE #14	CKT A CKT B CKT C CKT D	SE-0101R	50	6	0.491	0.064	0.049	0.006													
2	SERVICE #14		CKT A	22	1517.549	46	3173.097	26.44	1.24	124	118.76	1.04%										
3	SERVICE #14		CKT B	24	1955.508																	
4	SERVICE #14		CKT C	0	0.00																	
5	SERVICE #14		CKT D	0	0.00																	
TOTAL															46	3173.097	26.44					

CIRCUIT: CKT A

REF #	FROM	TO	RUN#	DISTANCE (FT)	CONDUCTOR PROPERTIES				LINK R (OHM)	LINK X (OHM)	BRANCH FROM NODE		TOTAL		CURRENT (A)	NODE VOLTAGE DROP (V)	TOTAL VOLTAGE DROP (V)	% VOLTAGE DROP				
					CONDUCTOR SIZE (AWG)	R/1000	X/1000	LUMINAIRE QUANTITY			VA	LUMINAIRE QUANTITY	VA									
BRANCH A	SERVICE #14	GROUND BOX		120	6	0.491	0.064	0.123	0.018					22	1517.549	12.85	1.49	149	117.27	1.24%		
	LP107	LP107		70	6	0.491	0.064	0.059	0.009	2	68.5	B	10	689.795	2.32	118.44	1.00%					
	LP108	LP108		90	6	0.491	0.064	0.099	0.012	2	68.5			2.60	118.33	2.86%						
	LP109	LP109		90	6	0.491	0.064	0.099	0.012	2	68.5			3.24	115.52	2.70%						
	LP110	LP110		90	6	0.491	0.064	0.099	0.012	2	68.5			3.84	115.13	3.20%						
	LP111	LP111		90	6	0.491	0.064	0.099	0.012	2	68.5			4.48	114.74	3.56%						
	LP112	LP112		90	6	0.491	0.064	0.099	0.012	2	68.5			5.12	114.35	3.92%						
	LP101	LP101		85	6	0.491	0.064	0.051	0.011	2	68.5			1.55	119.00	0.13%						
BRANCH B	GROUND BOX	LP111		250	6	0.491	0.064	0.358	0.037	2	68.5		10	895.76	5.75	1.57	117.10	1.31%				
	LP111	LP112		90	6	0.491	0.064	0.099	0.012	2	68.5			0.91	118.56	0.08%						
	LP112	LP113		90	6	0.491	0.064	0.099	0.012	2	68.5			1.82	118.02	0.16%						
	LP113	LP115		110	6	0.491	0.064	0.108	0.014	2	68.5		4	275.918	0.23	0.24	116.58	0.20%				
	LP115	LP116		90	6	0.491	0.064	0.099	0.012	2	68.5		2	127.059	0.11	0.12	116.58	0.11%				
	LP116	LP116		0	6	1.122	0.044	0.000	0.000	0	0.0		0	0.00	0.00	0.28	116.58	0.23%				
	TOTAL															48	3173.067	26.44				

CIRCUIT CKT A VOLTAGE DROP SUMMARY:

BRANCH A	MAX VOLTAGE DROP	%
	3.99	3.99%
		ACCEPTABLE

CIRCUIT: CKT B

REF #	FROM	TO	RUN#	DISTANCE (FT)	CONDUCTOR PROPERTIES				LINK R (OHM)	LINK X (OHM)	BRANCH FROM		TOTAL		CURRENT (A)	NODE VOLTAGE DROP (V)	TOTAL VOLTAGE DROP (V)	% VOLTAGE DROP		
					CONDUCTOR SIZE (AWG)	R/1000	X/1000	LINK R (OHM)			LUMINAIRE QUANTITY	LUMINAIRE WATTAGE	VA	LUMINAIRE QUANTITY					VA	
BRANCH A																				
1	SERVICE #14	GROUND BOX		120	6	0.491	0.064	0.123	0.018					24	1665.508	13.80	1.62	117.14	1.30%	
2	GROUND BOX	LP117		65	6	0.491	0.064	0.064	0.008	2	68.5	0	0	2.46	118.29	2.00%				
3	GROUND BOX	LP118		100	6	0.491	0.064	0.162	0.024	2	68.5	0	0	3.66	115.10	3.00%				
4	LP117	LP120		90	6	0.491	0.064	0.167	0.024	2	68.5	0	0	4.69	114.07	3.91%				
5	LP120	LP122		90	6	0.491	0.064	0.099	0.012	2	68.5	0	0	5.46	113.86	4.25%				
6	LP122	LP125		140	6	0.491	0.064	0.137	0.019	2	68.5	0	0	5.93	113.23	4.61%				
7	LP125	LP126		110	6	0.491	0.064	0.104	0.014	2	68.5	0	0	6.70	112.99	4.61%				
8	LP126	LP127		60	6	0.491	0.064	0.059	0.008	2	68.5	0	0	5.83	112.92	4.66%				
TOTAL															48	3173.067	26.44			
BRANCH B																				
1	GROUND BOX	LP119		10	6	0.491	0.064	0.010	0.001	2	68.5	0	0	12	877.394	0.98	0.08	168.89	0.08%	
2	LP119	LP121		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
3	LP121	LP123		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
4	LP123	LP124		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
5	LP124	LP125		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
6	LP125	LP126		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
7	LP126	LP127		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
8	LP127	LP128		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
9	LP128	LP129		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
10	LP129	LP130		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
11	LP130	LP131		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
12	LP131	LP132		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
13	LP132	LP133		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
14	LP133	LP134		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
15	LP134	LP135		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
16	LP135	LP136		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
17	LP136	LP137		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
18	LP137	LP138		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
19	LP138	LP139		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
20	LP139	LP140		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
21	LP140	LP141		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
22	LP141	LP142		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
23	LP142	LP143		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
24	LP143	LP144		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
25	LP144	LP145		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
26	LP145	LP146		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
27	LP146	LP147		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
28	LP147	LP148		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
29	LP148	LP149		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
30	LP149	LP150		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
31	LP150	LP151		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
32	LP151	LP152		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
33	LP152	LP153		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
34	LP153	LP154		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
35	LP154	LP155		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
36	LP155	LP156		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
37	LP156	LP157		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
38	LP157	LP158		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
39	LP158	LP159		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
40	LP159	LP160		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
41	LP160	LP161		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
42	LP161	LP162		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
43	LP162	LP163		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
44	LP163	LP164		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
45	LP164	LP165		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
46	LP165	LP166		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
47	LP166	LP167		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
48	LP167	LP168		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
49	LP168	LP169		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
50	LP169	LP170		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
51	LP170	LP171		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
52	LP171	LP172		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
53	LP172	LP173		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
54	LP173	LP174		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
55	LP174	LP175		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
56	LP175	LP176		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
57	LP176	LP177		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
58	LP177	LP178		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
59	LP178	LP179		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
60	LP179	LP180		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
61	LP180	LP181		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
62	LP181	LP182		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
63	LP182	LP183		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
64	LP183	LP184		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
65	LP184	LP185		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
66	LP185	LP186		100	6	0.491	0.064	0.098	0.012	2	68.5	0	0	689.795	0.95	0.95	116.21	0.46%		
67	LP186																			

CIRCUIT CKT B VOLTAGE DROP SUMMARY:

BRANCH A	MAX VOLTAGE DROP	%
	5.83	4.86%
		ACCEPTABLE

SERVICE POLE 11 VOLTAGE DROP CALCULATIONS
PROJECT ELECTRICAL DESIGN DATA
SERVICE VOLTAGE

SHEET DELETED
DO NOT APPROVE



DEPARTMENT OF
ENVIRONMENTAL SERVICES

Facilities & Engineering Division
Engineering Bureau
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Seal



Approvals Date

Design Team Engineer Supervisor

Construction Management Supervisor

Water, Sewer, Streets Bureau Chief

Transportation Director

Project Manager

Revisions	Date

Designed: DL
Drawn: DL
Checked: MRA
Miss Utility Transmittal #:

Filename: 010073-SEG_0-2.dwg
Path: K:\VA_RDW\11001073 Columbia Pike Multimodal Production\Task
Design\Drawings
Plotted: September 02, 2021
Plotted by: patrick.husted

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

LIGHTING SUMMARIES
COLUMBIA PIKE - ROUTE 244
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS
SEGMENT F

SCALE: HOR. N/A VERT. N/A SHEET: F15.3 of F15.13.3



DEPARTMENT OF
ENVIRONMENTAL SERVICES



LUIS ARAYA
BUREAU CHIEF, DES. DEVELOPMENT SERVICES

10/19/2021
APPROVAL DATE

GENERAL NOTES

1. ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE CURRENT "ARLINGTON COUNTY, DEPARTMENT OF ENVIRONMENTAL SERVICES (DES), CONSTRUCTION STANDARDS AND SPECIFICATIONS," "ARLINGTON COUNTY, DEPARTMENT OF ENVIRONMENTAL SERVICES LIGHTING SPECIFICATIONS", "ARLINGTON COUNTY, DEPARTMENT OF ENVIRONMENTAL SERVICES TRAFFIC SIGNAL SPECIFICATIONS" AND ANY SPECIAL PROVISIONS AND SPECIAL DESIGN AS PROVIDED ON THESE PLANS OR IN THE BID PROPOSAL. COPIES OF THE "CONSTRUCTION STANDARDS AND SPECIFICATIONS" MANUAL MAY BE DOWNLOADED AT NO COST AT:
http://www.building.arlingtonva.us/resources/design--standrads--guidelines/

2. OVERHEAD LINES ARE LOCATED WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL MEET THE NATIONAL ELECTRICAL SAFETY CODE (NESC) CLEARANCE REQUIREMENTS. FIELD CHECK CLEARANCES AND LOCATE LIGHT POLES WITH COUNTY'S APPROVAL. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), UNLESS OTHERWISE SPECIFIED IN THE PLANS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL MATERIALS ACCORDING TO ESTABLISHED ENVIRONMENTAL REQUIREMENTS. THE CONTRACTOR SHALL SALVAGE EXISTING LIGHT POLE ASSEMBLIES, INCLUDING FIXTURES, ARMS, POLES, INCIDENTAL MOUNTING/WIRING EQUIPMENT FOR LIGHT POLES SHOWN AS REMOVED IN THE PLANS AND/OR DIRECTED BY THE PROJECT OFFICER.

4. INSTALL PROPOSED LED ASSEMBLIES IN EACH GLOBE. USE BLACK COLOR ATTACHMENTS, INCLUDING BLACK COLOR DOUBLE ARM BRACKETS ON 16 FEET TALL BLACK COLOR CARLYLE LIGHT POLES. LUMINAIRE MOUNTING HEIGHT IS APPROXIMATELY 18 FEET.

5. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (I.e., WATER, SEWER, GAS, TELEPHONE, ELECTRIC, CABLE TV) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR SHALL IDENTIFY AND PROTECT ALL UTILITIES, INCLUDING ALL OTHER UTILITY LINES FOUND IN THE WORK SITE AREA BELONGING TO OWNERS THAT ARE NOT MEMBERS OF "MISS UTILITY."

6. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM BEST AVAILABLE RECORDS AND MUST BE CONSIDERED TO BE APPROXIMATE. WHEN CONSTRUCTION ACTIVITY REACHES IN PROXIMITY TO EXISTING UTILITIES, THE TRENCH(ES) SHALL BE OPENED A SUFFICIENT DISTANCE AHEAD OF THE WORK OR TEST PITS SHALL BE MADE TO VERIFY THE EXACT LOCATION AND INVERTS OF THE UTILITY TO ALLOW FOR POSSIBLE CHANGES IN THE LINE OR GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES AND THE RELATED STRUCTURES. ALL EXISTING UTILITY SYSTEMS SHALL BE PROTECTED TO PREVENT DAMAGE DURING THE CONTRACTOR'S OPERATIONS. ANY SYSTEM DAMAGED SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.

7. ALL CONCRETE ON THIS PROJECT SHALL BE CLASS "A" AIR ENTRAINED CONCRETE UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL USE A CURING COMPOUND TO TREAT ALL EXPOSED CONCRETE.

8. THE RESTORATION OR REMOVAL COST OF ANY EXISTING PAVEMENT, CURB AND GUTTER, SIDEWALKS, APRONS, LANDSCAPING, ETC. IS SUBSIDIARY TO THE REMOVAL OF EXISTING LIGHT POLES INSTALLATION OF THE LIGHT POLES. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY ITEM TO REMAIN BUT DAMAGED BY THE CONTRACTOR'S OPERATION AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE COUNTY ENGINEER.

9. ANY SIDEWALKS IMPACTED SHALL BE CONSTRUCTED IN ACCORDANCE WITH DES STANDARD SPECIFICATION SECTION NO. 02611 'CONCRETE WALKS AND CONCRETE DRIVEWAY ENTRANCE' AND CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH DES STANDARD SPECIFICATION SECTION NO. 02750 'CURB AND GUTTERS'.

10. THE CONTRACTOR SHALL TAKE MEASURES TO PRESERVE THE EXISTING LANDSCAPING. WHEN TRENCHING IN EARTH THE CONTRACTOR SHALL CAREFULLY REMOVE THE EXISTING SOD AND THEN PLACE THE EXISTING SOD INTO PLACE WHEN THE WORK IS COMPLETE. THE CONTRACTOR SHALL PLACE ALL EARTH THAT HAS BEEN DUG UP ON A PLASTIC SHEET TO PROTECT THE EXISTING LANDSCAPE.

11. THE CONTRACTOR SHALL COMPLETELY RESTORE THE TRENCH AT THE END OF EVERY WORKING DAY. THIS RESTORATION INCLUDES BACK-FILLING, COMPACTION, AND PLACING THE SOD. ALL ACTIVITIES RELATED TO TRENCHING SHALL BE INCLUDED IN THE UNIT COST FOR TRENCHING CONDUIT.

12. CONTRACTOR SHALL NOT DISTURB OR REMOVE ANY TRAFFIC CONTROL SIGNS, PARKING METERS OR ANY OTHER TRAFFIC CONTROL DEVICE WITHOUT PRIOR PERMISSION FROM THE TRANSPORTATION DIVISION AT 703--228--0652.

13. FOR REMOVING EXISTING LIGHT POLE FOUNDATIONS, EXCAVATE AND REMOVE LIGHT POLE FOUNDATION TO A MINIMUM OF 2 FEET BELOW FINISHED GRADE, FILL THE VOID LEFT BY THE STRUCTURE WITH SAND OR #57 AGGREGATE MATERIAL. IF THE LIGHT POLE IS WITHIN THE LIMITS OF THE SIDEWALK AREA, PLACE PREMOLDED EXPANSION JOINT AROUND THE POLE FOR THE FULL DEPTH OF THE CONCRETE. CONCRETE CURB AND GUTTER, AND SIDEWALKS, SHALL BE RESTORED AS REQUIRED TO MATCH EXISTING CONSTRUCTION. REPLACE DAMAGED SECTIONS WITH COMPLETE NEW SECTIONS OR SQUARES; PATCHING OF DAMAGED SECTIONS WILL NOT BE PERMITTED. THE PRICE FOR ABOVE SHALL BE SUBSIDIARY TO THE REMOVAL OF EXISTING LIGHT POLES.

14. THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE SITE AS DIRECTED BY ARLINGTON COUNTY AT ALL TIMES DURING CONSTRUCTION AND SHALL ENSURE THE SAFETY OF PEDESTRIANS FROM TRAFFIC AND CONSTRUCTION HAZARDS. MAINTENANCE OF TRAFFIC IS SUBSIDIARY TO AND SHALL BE INCLUDED IN THE VARIOUS UNIT BID PRICES FOR THE VARIOUS BID ITEMS OF WORK ON THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COUNTY APPROVAL FOR ANY MODIFICATIONS TO THE MOT PLANS, INCLUDING SIDEWALK AND ROAD CLOSURE PERMITS.

15. AT EXISTING STREET LIGHT DISCONNECT/METER LOCATIONS SHOWN ON THE PLANS, THE CONTRACTOR SHALL BE REQUIRED TO ADD OR MODIFY THE SIZE OF MAIN DISCONNECT OR BRANCH CIRCUIT BREAKERS. ALL SUCH WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH DES STANDARDS AND NEC REQUIREMENTS AND IS SUBSIDIARY TO THE INSTALLATION OF THE LIGHT POLES. THE COST OF CONNECTING TO EXISTING CIRCUIT BREAKERS AT THE SPECIFIED ELECTRIC SERVICES SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE INSTALLATION OF LIGHT POLES.

16. AFTER THE STREETLIGHT INSTALLATION IS COMPLETE, COUNTY STAFF WILL TEST/PROGRAM THE RADIO INSIDE THE STREETLIGHT BY COMMUNICATING WITH A HANDHELD DEVICE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING SUCH RADIOS WHICH MANUFACTURER USUALLY SUPPLY UNDER WARRANTY.

17. QUAZITE BOXES SHALL BE 13"X24" QUAZITE PT1324HA00 (LID) AND PT1324BA18 (BOX). THE COVER SHALL BE MARKED "STREET LIGHT." A 5/8"X8" COPPER CLAD GROUNDING ROD SHALL BE INSTALLED IN EACH QUAZITE BOX.

18. ANY CONSTRUCTION NOISE ACTIVITIES WHICH PRODUCE NOISE LEVELS EXCEEDING ARLINGTON COUNTY'S ESTABLISHED MAXIMUM PERMISSIBLE NOISE LEVELS SHALL BE PERMITTED ONLY DURING THE DAYTIME. ALL FEASIBLE PROCEDURES SHALL BE UNDERTAKEN TO MINIMIZE NOISE GENERATED BY CONSTRUCTION ACTIVITIES. IN NO INSTANCE SHALL NOISE LEVELS ORIGINATING FROM CONSTRUCTION SITES EXCEED NINETY (90) DBA.

19. MAINTAIN EXISTING CIRCUITS IN WORKING CONDITION WITHIN PROJECT LIMITS AND LIGHT POLES OUTSIDE THE PROJECT LIMITS TO REMAIN. SPLICE CONDUIT AND CONDUCTORS AS NECESSARY, PER NEC STANDARDS TO MAINTAIN CONTINUITY. CHECK VOLTAGE DROP CALCULATIONS BEFORE SPLICING. ALL THESE ITEMS WILL NOT BE PAID FOR DIRECTLY BUT ARE SUBSIDIARY TO THE REMOVAL OF EXISTING LIGHT POLES.

20. SIGNS CURRENTLY ATTACHED TO EXISTING LIGHT POLES TO BE REMOVED, SHALL BE PERMANENTLY ATTACHED TO THE ADJACENT, PROPOSED LIGHT POLES AS DIRECTED BY THE COUNTY ENGINEER. THIS IS SUBSIDIARY TO THE INSTALLATION OF THE LIGHT POLES.

21. THE PROPOSED CIRCUIT CONDUCTORS ARE NOT INTENDED TO REPLACE THE EXISTING CIRCUIT CONNECTIONS BETWEEN THE SERVICE AND THE REMAINING LIGHT POLES/CIRCUITS TO REMAIN.

22. PROPOSED LIGHTING CONDUIT SHALL BE INSTALLED AT 2' - 2.5' DEPTH.

23. CONTRACTOR SHALL PROVIDE THE COUNTY WITH AS-BUILT DRAWINGS IN ACCORDANCE WITH COUNTY STANDARDS.

NOTE: SHEET F15.3 NOT USED



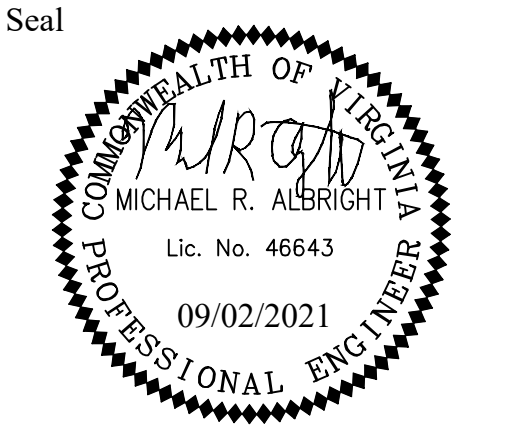
DEPARTMENT OF ENVIRONMENTAL SERVICES

Facilities & Engineering Division
Engineering Bureau
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Approvals Date

Design Team Engineer Supervisor

Construction Management Supervisor

Water, Sewer, Streets Bureau Chief

Transportation Director

Project Manager

Revisions	Date

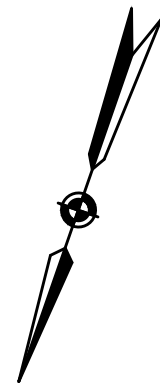
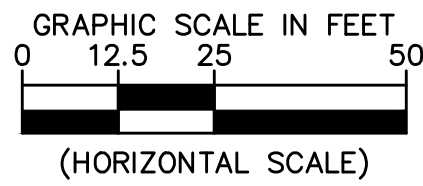
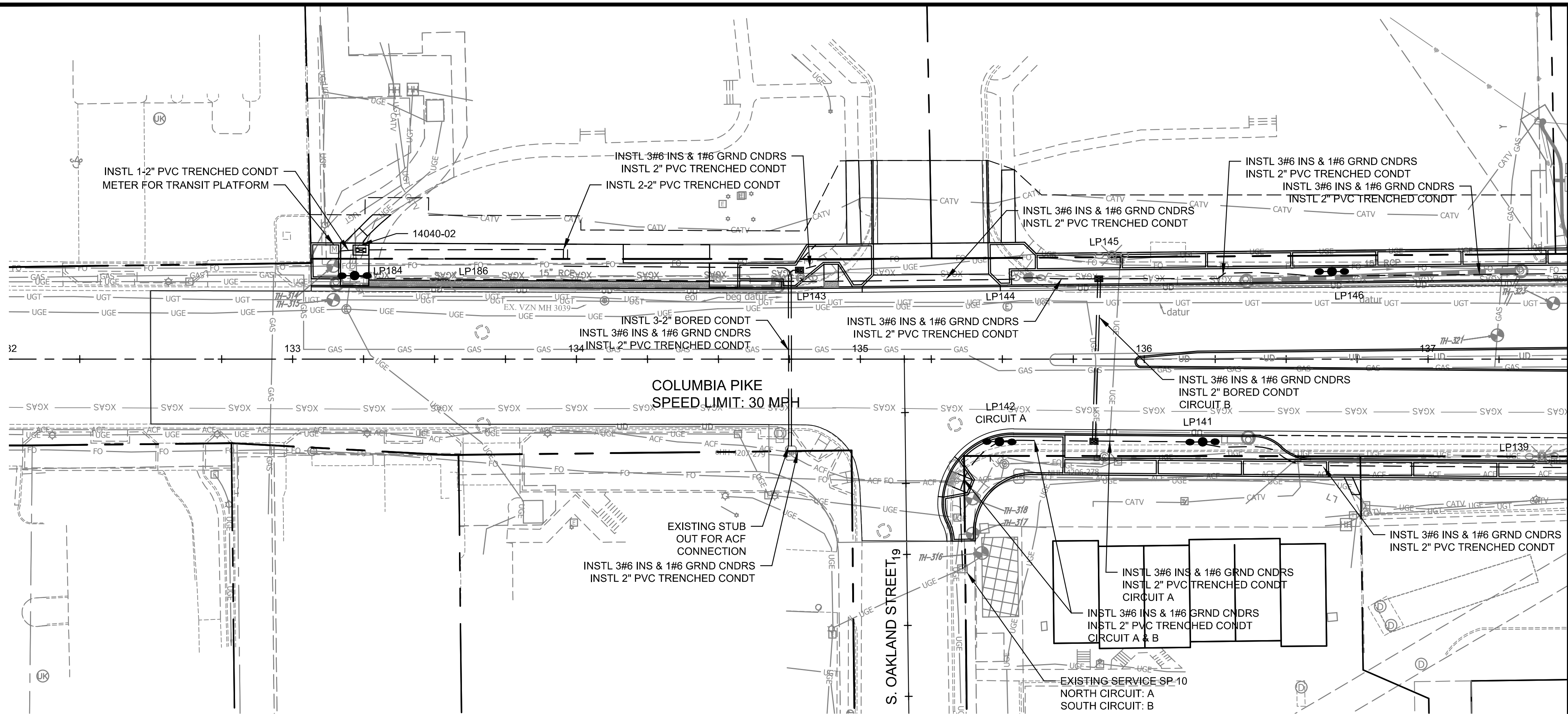
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Drawn: DL
Checked: MRA
Miss Utility Transmittal #:

Filename: 010073-SEG 0-3.dwg
Path: C:\NVA_KORV\1100\0073 Columbia Pike Multimodal Production\Task
1 - 2 Final Design of Columbia Pike Segment Segment F15.3 - 100%
Design\PlatSheet
Plotted: September 02, 2021
Plotted by: patrick.husted

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

LIGHTING GENERAL NOTES
COLUMBIA PIKE - ROUTE 244
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS
SEGMENT F

SCALE: HOR. N/A VERT. N/A SHEET: F15.4 of F15.13.3



GENERAL NOTES:

1. PROPOSED LEDS ON PED POLES ARE QUANTIFIED IN TRAFFIC SIGNAL PLANS.
2. LUMINAIRES ON TRAFFIC SIGNAL POLES ARE QUANTIFIED IN TRAFFIC SIGNAL PLANS.
3. PROVIDE SINGLE POLE 30A FRAME SERVICE DISCONNECT SWITCH FUSED AT 20A. NEMA 3R ENCLOSURE. THE DISCONNECT SWITCH SHALL BE MOUNTED TO METER FRAME.
4. FOR PROPOSED LP 132, LP133, LP134, CONTRACTOR TO INSTALL FOUNDATIONS AND POLES SUCH THAT A MIN. CLEARANCE OF 3 FEET FROM EXISTING RETAINING WALL TO NEAREST EDGE OF LIGHT POLE BASE IS MAINTAINED.
5. OFFSET OF PROPOSED LIGHTING CONDUIT MAY BE REQUIRED FOR PROPOSED IMPROVEMENTS.

LEGEND

- Proposed Double Carlyle LED on New Light Pole
 - Existing Double Carlyle LED on Relocated Pole
 - Existing Double Carlyle LED to Remain
 - Proposed LED on PED Pole
 - Existing Carlyle Light Pole to be Removed/Relocated
 - EM Existing Single Phase Electrical Service
 - JB Proposed Quazite Junction Box
 - SM Proposed Service Meter
 - E Existing Junction Box
 - Proposed 2" SCHD 40 PVC Conduit
 - == Proposed 2" Bored Conduit
 - Existing Conduit
 - Existing/Proposed Luminaire on Traffic Signal Pole
- See Sheet 14.6.4, detail 1, for streetlight conduit location.



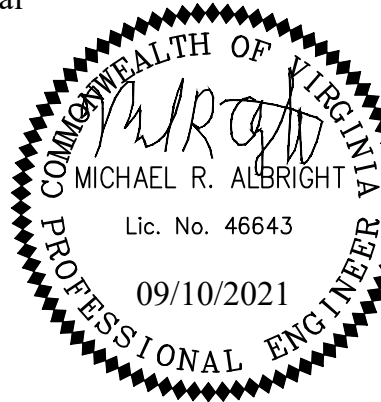
DEPARTMENT OF
ENVIRONMENTAL SERVICES

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Seal



Approvals _____ Date _____

Design Team Engineer Supervisor _____

Construction Management Supervisor _____

Water, Sewer, Streets Bureau Chief _____

Transportation Director _____

Project Manager _____

Revisions	Date

Designed: DL
Drawn: DL
Checked: MRA
Miss Utility Transmittal #:

Filename: 010073-F-LITE.dwg
Path: C:\Users\KORVY\OneDrive\Documents\Columbia Pike Multimodal\Production\Task
132+00 to 137+50\Drawings\Columbia Pike Multimodal\Segment F\15.1 - 100%
Design\Drawings
Plotted: September 10, 2021
Plotted by: patrick.husted

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

STREET LIGHTING PLAN
COLUMBIA PIKE - ROUTE 244
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS
SEGMENT F
STA. 132+00 TO STA. 137+50

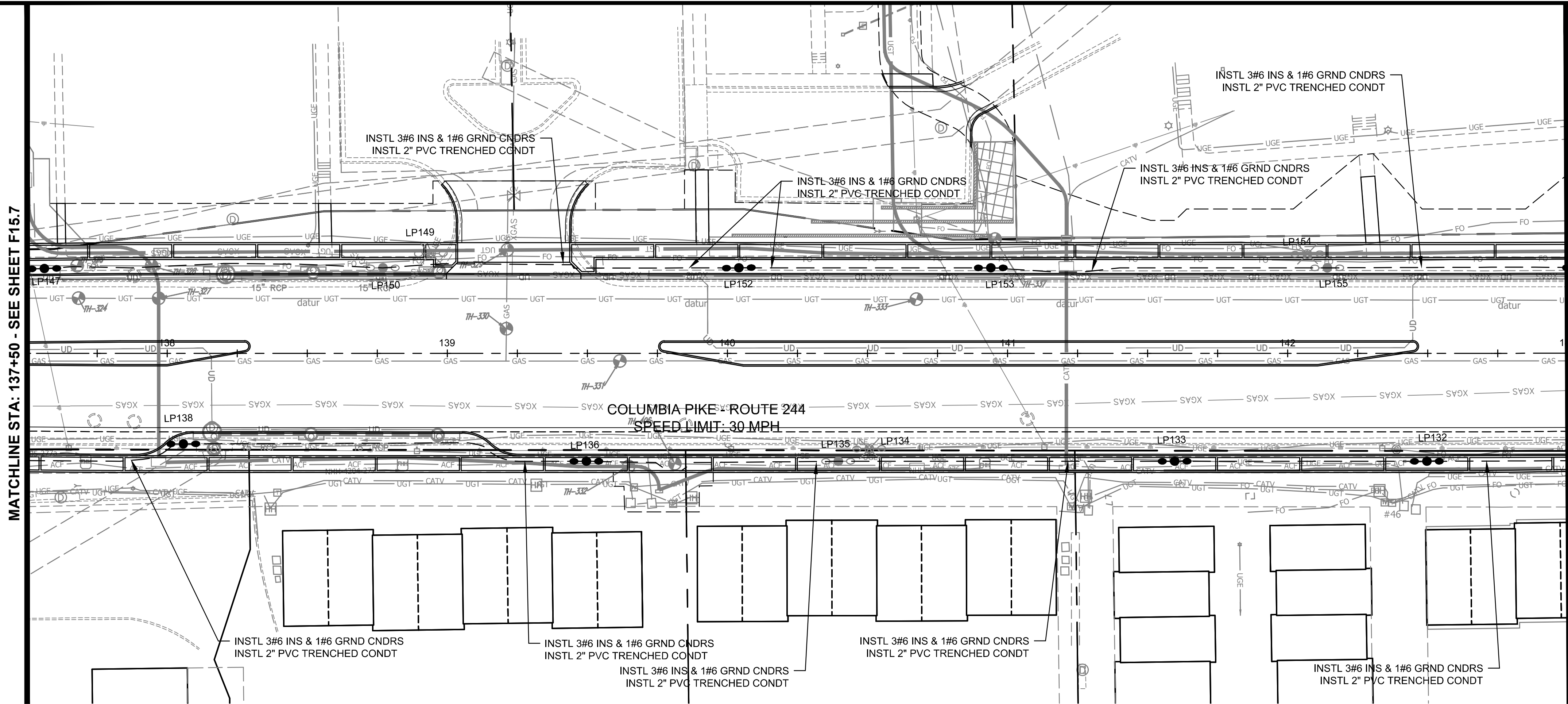
SCALE: HOR. 1" = 25' VERT. N/A SHEET: F15.7 of F15.13.3



DEPARTMENT OF
ENVIRONMENTAL SERVICES

10/19/2021
APPROVAL DATE

MATCHLINE STA: 137+50 - SEE SHEET F15.7



MATCHLINE STA: 143+00 - SEE SHEET F15.9

LEGEND

Proposed Double Carlyle LED on New Light Pole

Existing Double Carlyle LED on Relocated Pole

Existing Double Carlyle LED to Remain

Proposed LED on PED Pole

Existing Carlyle Light Pole to be Removed/Relocated

Existing Single Phase Electrical Service

Proposed Quazite Junction Box

Proposed Service Meter

Existing Junction Box

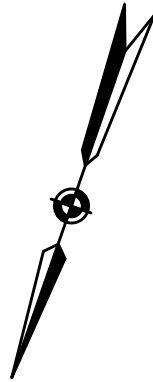
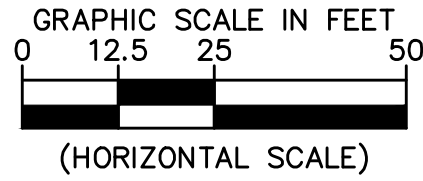
Proposed 2" SCHD 40 PVC Conduit

Proposed 2" Bored Conduit

Existing Conduit

Existing/Proposed Luminaire on Traffic Signal Pole

See Sheet 14.6.4, detail 1, for streetlight conduit location.



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Seal



Approvals Date

Design Team Engineer Supervisor

Construction Management Supervisor

Water, Sewer, Streets Bureau Chief

Transportation Director

Project Manager

Revisions	Date

Designed: DL
Drawn: DL
Checked: MRA
Miss Utility Transmittal #:

Filename: 010073-F-LITE.dwg
Path: C:\Users\KORVY11010073\Columbia Pike Multimodal Production\Task
13.7 Final Design of Columbia Pike Segment Segment F 15.2 - 100%
Design Plans\Drawings
Plotted: September 10, 2021
Plotted by: Patrick.Husted

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

STREET LIGHTING PLAN
COLUMBIA PIKE - ROUTE 244
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS
SEGMENT F
STA. 137+50 TO STA. 143+00

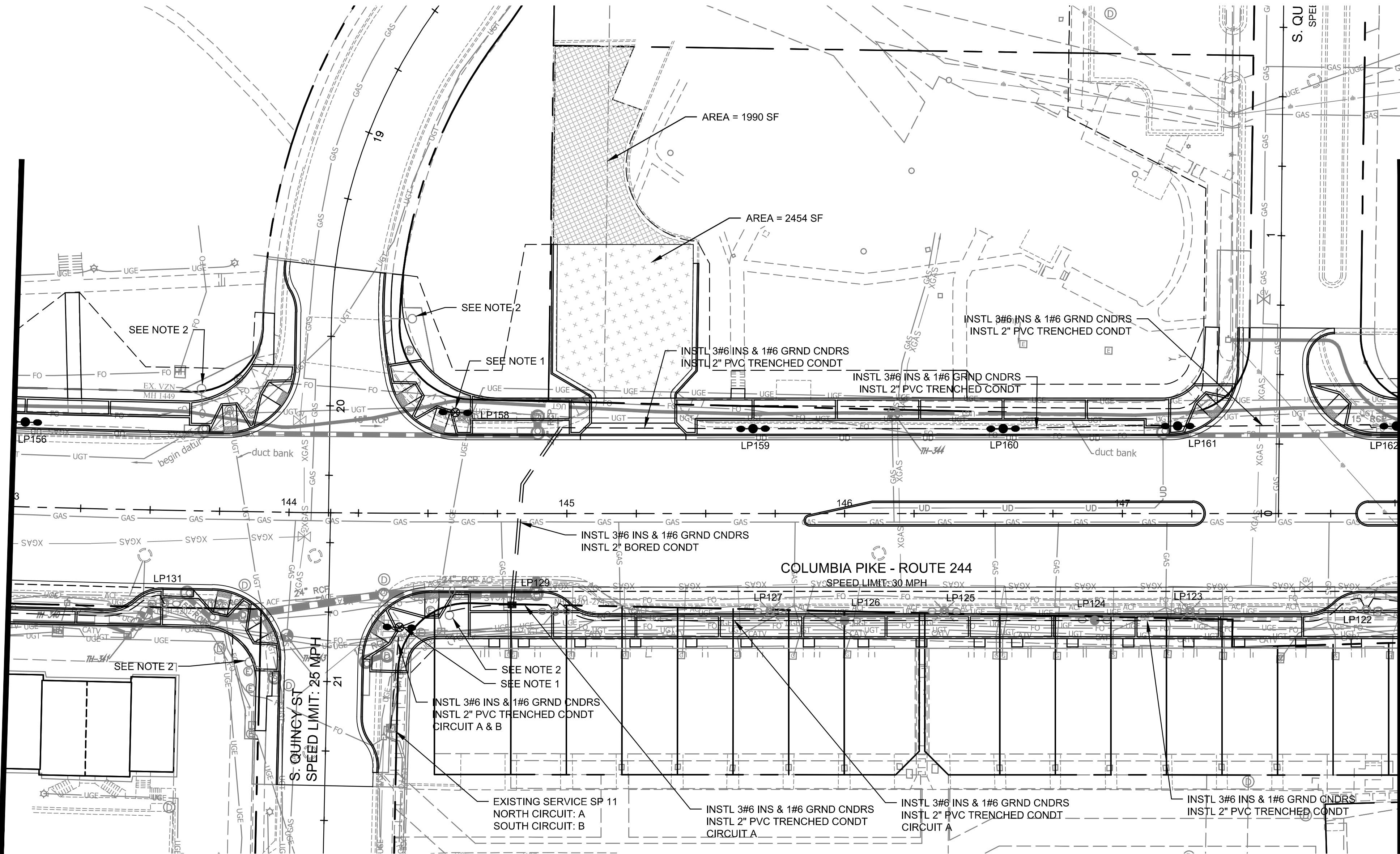
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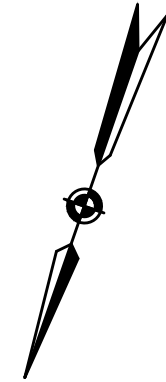
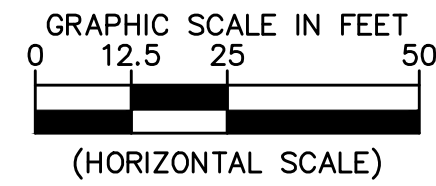
DEPARTMENT OF ENVIRONMENTAL SERVICES

10/19/2021
APPROVAL DATE

MATCHLINE STA: 143+00 - SEE SHEET F15.8



MATCHLINE STA: 148+00 - SEE SHEET F15.10



LEGEND

- Proposed Double Carlyle LED on New Light Pole
 - Existing Double Carlyle LED on Relocated Pole
 - Existing Double Carlyle LED to Remain
 - Proposed LED on PED Pole
 - Existing Carlyle Light Pole to be Removed/Relocated
 - Existing Single Phase Electrical Service
 - Proposed Quazite Junction Box
 - Proposed Service Meter
 - Existing Junction Box
 - Proposed 2" SCHD 40 PVC Conduit
 - Proposed 2" Bored Conduit
 - Existing Conduit
 - Existing/Proposed Luminaire on Traffic Signal Pole
- See Sheet 14.6.4, detail 1, for streetlight conduit location.

GENERAL NOTES:

- PROPOSED LEDS ON PED POLES ARE QUANTIFIED IN TRAFFIC SIGNAL PLANS.
- LUMINAIRES ON TRAFFIC SIGNAL POLES ARE QUANTIFIED IN TRAFFIC SIGNAL PLANS.
- PROVIDE SINGLE POLE 30A FRAME SERVICE DISCONNECT SWITCH FUSED AT 20A. NEMA 3R ENCLOSURE. THE DISCONNECT SWITCH SHALL BE MOUNTED TO METER FRAME.
- FOR PROPOSED LP 132, LP133, LP134, CONTRACTOR TO INSTALL FOUNDATIONS AND POLES SUCH THAT A MIN. CLEARANCE OF 3 FEET FROM EXISTING RETAINING WALL TO NEAREST EDGE OF LIGHT POLE BASE IS MAINTAINED.
- OFFSET OF PROPOSED LIGHTING CONDUIT MAY BE REQUIRED FOR PROPOSED IMPROVEMENTS.



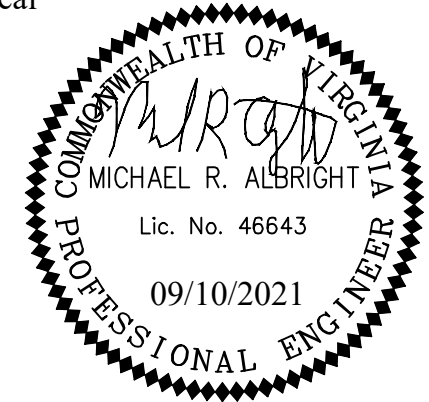
DEPARTMENT OF
ENVIRONMENTAL SERVICES

Facilities & Engineering Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3629
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and Associates, Inc.

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Phone: 703-674-1500
Fax: 703-674-1500

Seal



Approvals _____ Date _____

Design Team Engineer Supervisor _____

Construction Management Supervisor _____

Water, Sewer, Streets Bureau Chief _____

Transportation Director _____

Project Manager _____

Revisions _____ Date _____

Designed: DL
Drawn: DL
Checked: MRA
Miss Utility Transmittal #:

Filename: 010073-F-LITE.dwg
Path: \\S:\A\KOR\Y110610073 Columbia Pike Multimodal Production\Task
11 - Final Design of Columbia Pike Segment Segment F 15.1 - 100%
Design\PlatSheets
Plotted: September 10, 2021
Plotted by: patrick.husted

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

STREET LIGHTING PLAN
COLUMBIA PIKE - ROUTE 244
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS
SEGMENT F
STA. 143+00 TO STA. 148+00

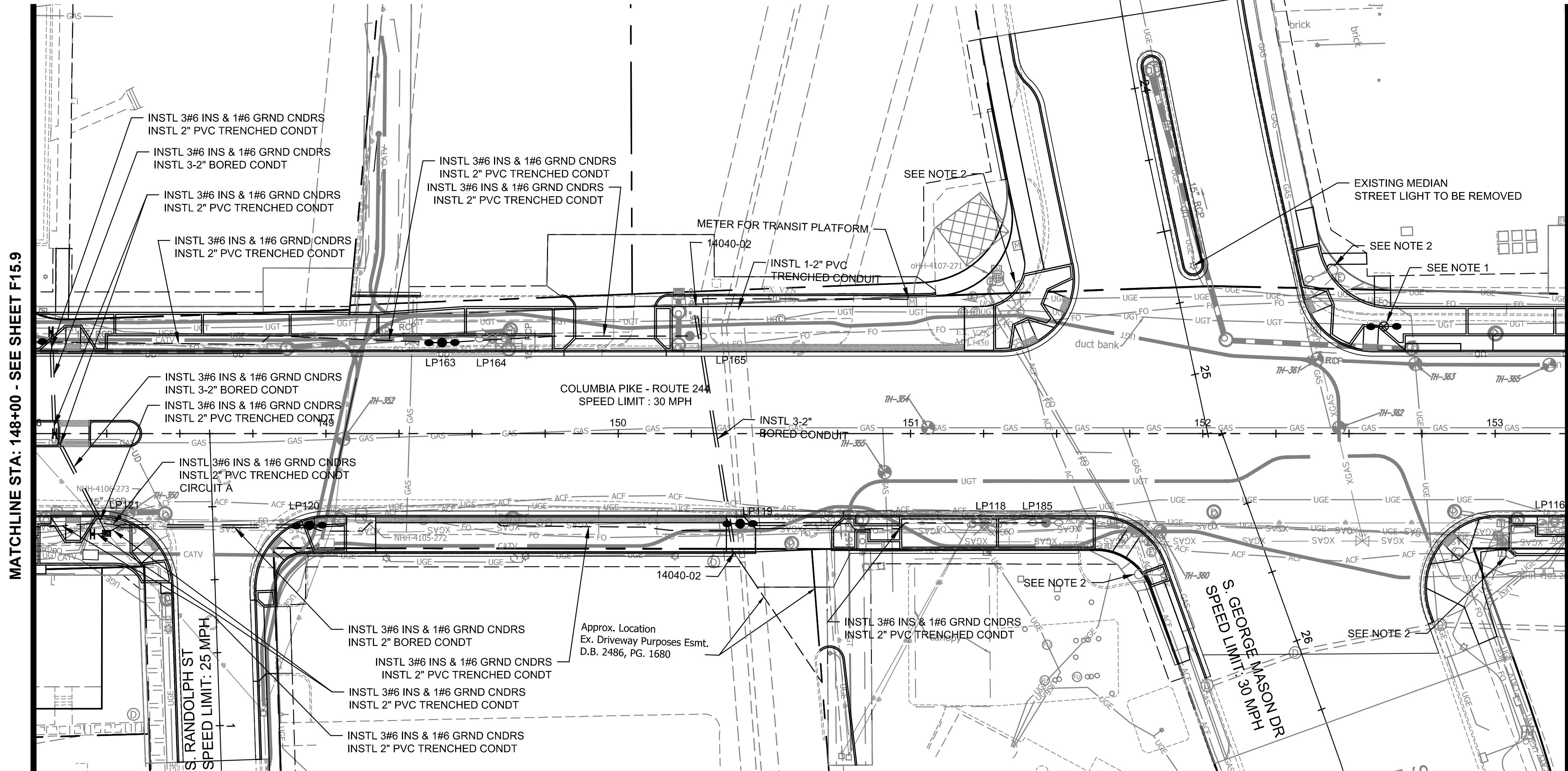
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DEPARTMENT OF
ENVIRONMENTAL SERVICES

10/19/2021

APPROVAL DATE



LEGEND

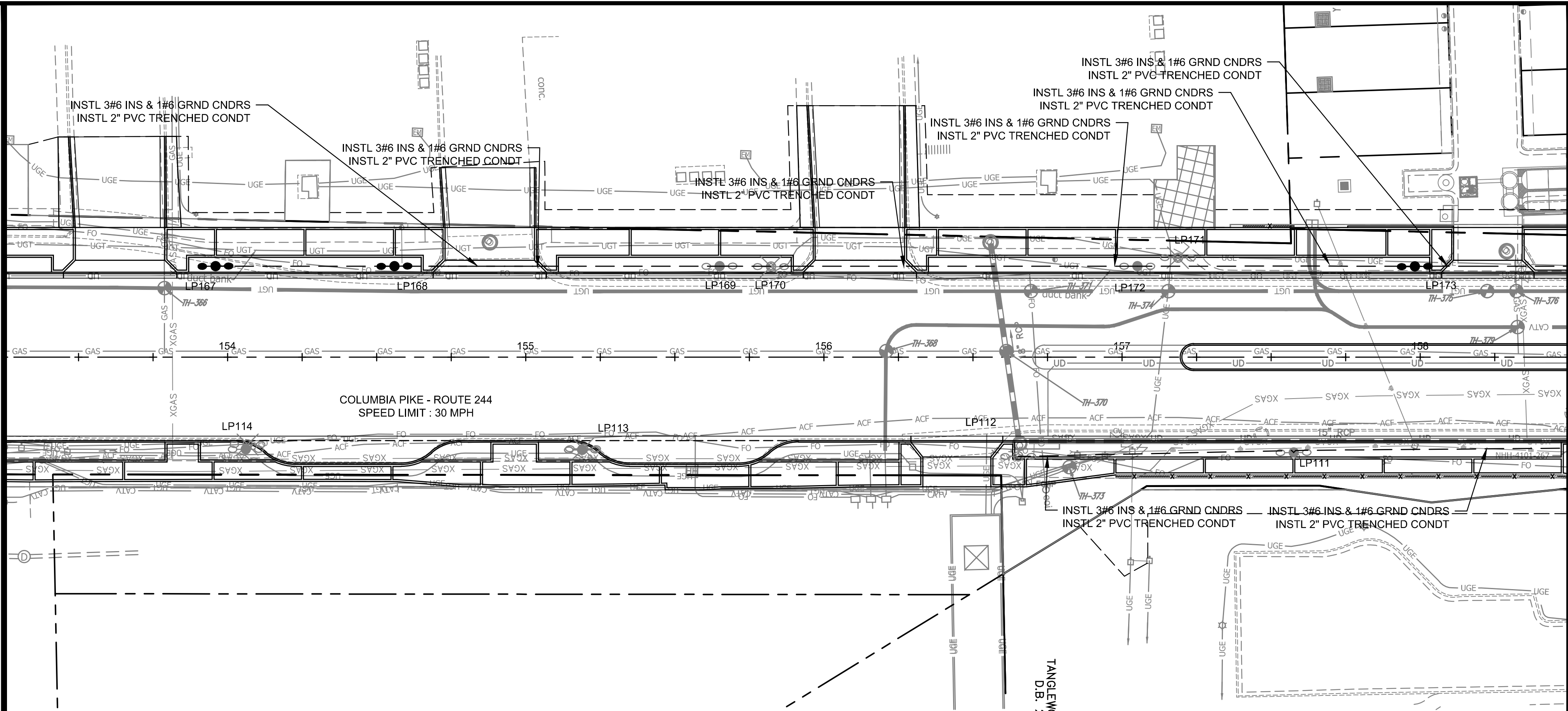
- Proposed Double Carlyle LED on New Light Pole
- Existing Double Carlyle LED on Relocated Pole
- Existing Double Carlyle LED to Remain
- Proposed LED on PED Pole
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- Existing Conduit
- Existing/Proposed Luminaire on Traffic Signal Pole

See Sheet 14.6.4, detail 1, for streetlight conduit location.

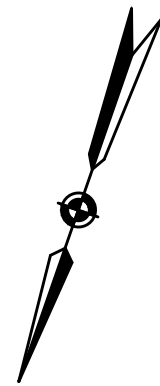
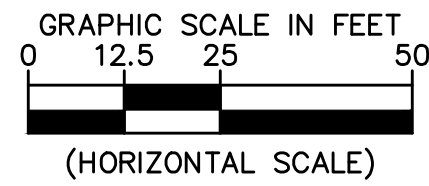
GENERAL NOTES:

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MATCHLINE STA: 153+25 - SEE SHEET F15.10



MATCHLINE STA: 158+50 - SEE SHEET F15.12



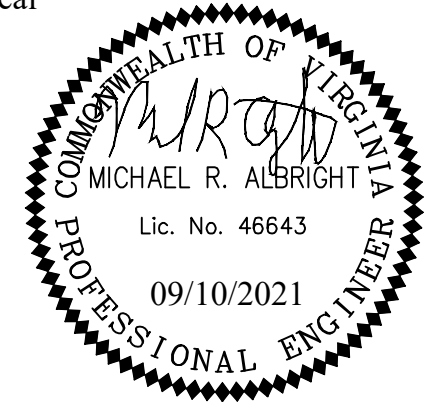
DEPARTMENT OF ENVIRONMENTAL SERVICES

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Seal



Approvals _____ Date _____

Design Team Engineer Supervisor _____

Construction Management Supervisor _____

Water, Sewer, Streets Bureau Chief _____

Transportation Director _____

Project Manager _____

Revisions	Date

Designed: DL
Drawn: DL
Checked: MRA
Miss Utility Transmittal #:

Filename: 010073-F-LITE.dwg
Path: \\F:\Projects\010073-F-LITE.dwg
Plotted: September 10, 2021
Plotted by: patrick.husted

GENERAL NOTES:

1. PROPOSED LEDS ON PED POLES ARE QUANTIFIED IN TRAFFIC SIGNAL PLANS.
2. LUMINAIRES ON TRAFFIC SIGNAL POLES ARE QUANTIFIED IN TRAFFIC SIGNAL PLANS.
3. PROVIDE SINGLE POLE 30A FRAME SERVICE DISCONNECT SWITCH FUSED AT 20A. NEMA 3R ENCLOSURE. THE DISCONNECT SWITCH SHALL BE MOUNTED TO METER FRAME.
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ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

STREET LIGHTING PLAN
COLUMBIA PIKE - ROUTE 244
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS
SEGMENT F
STA. 153+25 TO STA. 158+50

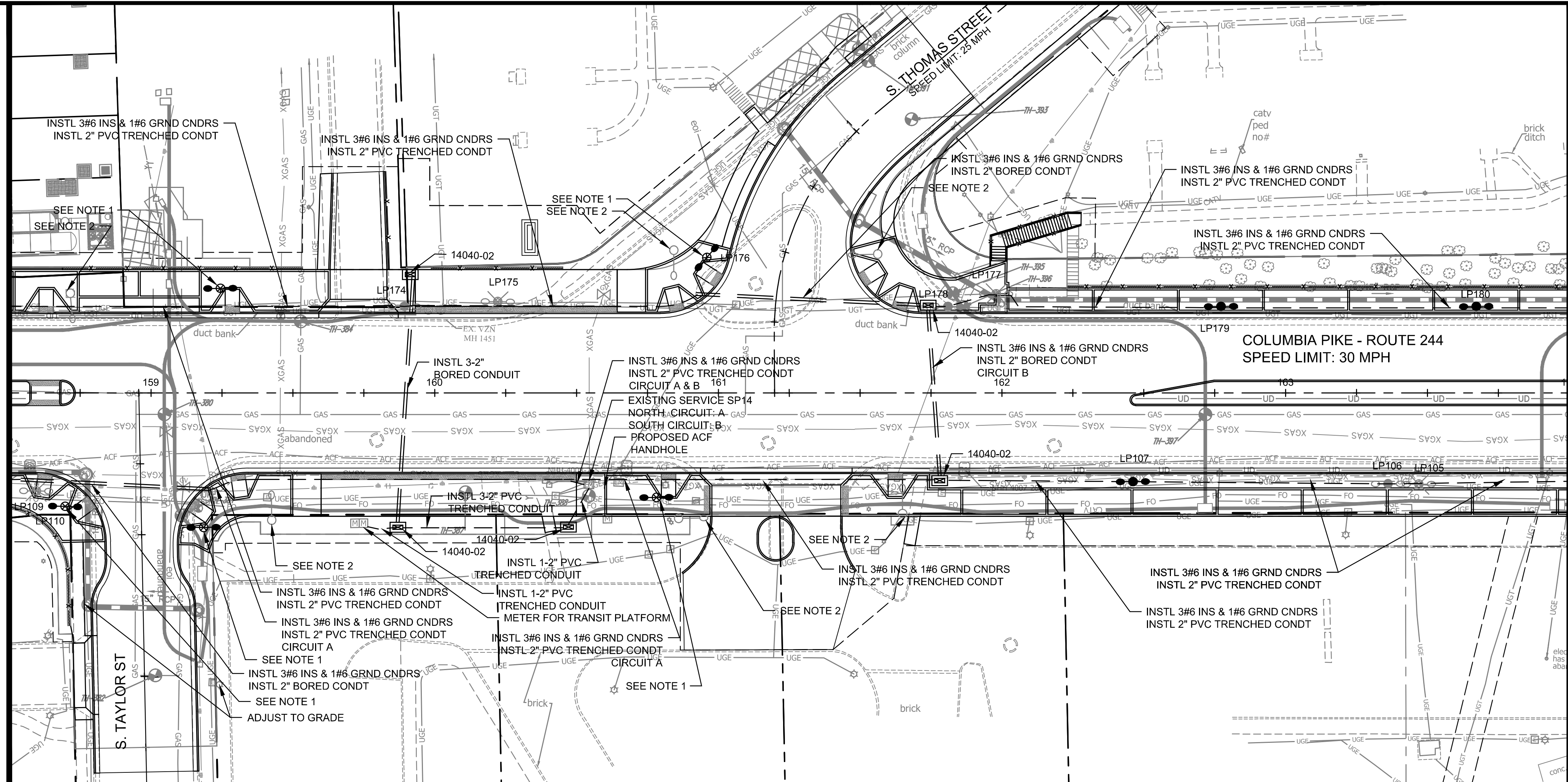
SCALE: HOR. 1" = 25' VERT. N/A SHEET: F15.11 of F15.13.3



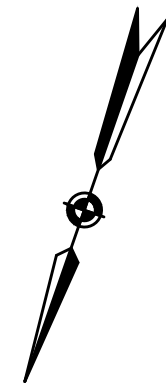
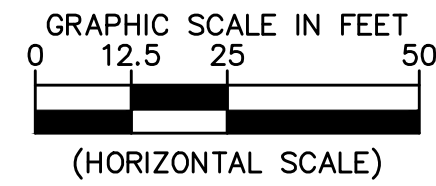
DEPARTMENT OF ENVIRONMENTAL SERVICES

10/19/2021
APPROVAL DATE

MATCHLINE STA: 158+50 - SEE SHEET F15.11



MATCHLINE STA: 164+00 - SEE SHEET F15.13



DEPARTMENT OF ENVIRONMENTAL SERVICES

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Fax: 703-674-1500



Approvals _____ Date _____

Design Team Engineer Supervisor _____

Construction Management Supervisor _____

Water, Sewer, Streets Bureau Chief _____

Transportation Director _____

Project Manager _____

Revisions	Date

Designed: DL
Drawn: DL
Checked: MRA
Miss Utility Transmittal #:

Filename: 010073-F-LITE.dwg
Path: Z:\Projects\Design\010073 Columbia Pike Multimodal\Production\Task
Design\TaskSheet
Plotted: September 10, 2021
Plotted by: patrick.husted

LEGEND

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ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

STREET LIGHTING PLAN
COLUMBIA PIKE - ROUTE 244
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS
SEGMENT F
STA. 158+50 TO STA. 164+00

SCALE: HOR. 1" = 25' VERT. N/A SHEET: F15.12 of F15.13.3



DEPARTMENT OF ENVIRONMENTAL SERVICES

10/19/2021
APPROVAL DATE