

DATE	BY	CHKD	DATE
10/12/17	3	9	11/1/17

PHOTOMETRIC SUMMARY

HMLEDA_P2_40K_AW (44461 LUMENS, 295 W, 4000K)
 HMLEDA_P2_40K_FTA (40691 LUMENS, 295 W, 4000K)

Grid Label	ILLUMINANCE (fc)	AVG ILLUMINANCE (fc)	MAX ILLUMINANCE (fc)	MIN ILLUMINANCE (fc)	AVERAGE ILLUMINANCE (fc)	Veiling Luminance
L77NB	0.87	2.22	2.22	0.22	3.55	0.21
L77SB	0.85	2.08	2.08	0.25	2.93	0.30
RAMP TO L77NB	0.91	2.60	2.60	0.25	2.67	
RAMP TO L77SB	0.84	2.70	2.70	0.25	4.00	
RAMP TO SC5WB	0.97	2.85	2.85	0.25	3.09	
RAMP TO SC9WB	0.88	2.90	2.90	0.25	3.85	
SC5WB	1.61	2.55	2.55	0.30	3.22	0.16
SC9WB	1.42	2.59	2.59	0.64	2.42	0.28



PROPOSED HIGH MAST TOWER 120' MOUNTING HEIGHT WITH LED LUMINAIRE.
 LUMINAIRES SHALL BE (OR APPROVED EQUAL)
 - HOLOPHANE HMLEDA_P2_40K_FTA, 5 HEADS FACING SAME DIRECTION (40691 LUMENS, 295 W, 4000K)
 - SIGNIFY LUMEC HFL_138L-530-NW-52-3, 4 HEADS FACING SAME DIRECTION (39905 LUMENS, 286 W, 4000K)
 - GE CURRENT ERMH02_40C3740, 6 HEADS FACING SAME DIRECTION (49000 LUMENS, 280 W, 4000K)



PROPOSED HIGH MAST TOWER 120' MOUNTING HEIGHT WITH LED LUMINAIRE.
 LUMINAIRES SHALL BE (OR APPROVED EQUAL)
 - HOLOPHANE HMLEDA_P2_40K_AW, 5 HEADS @ 72 DEGREES (44461 LUMENS, 295 W, 4000K)
 - SIGNIFY LUMEC HFL_138L-530-NW-52-3, 4 HEADS @ 72 DEGREES (40691 LUMENS, 296 W, 4000K)
 - GE CURRENT ERMH02_40C3740, 6 HEADS @ 72 DEGREES (49000 LUMENS, 285 W, 4000K)



PROPOSED HIGH MAST TOWER 120' MOUNTING HEIGHT WITH LED LUMINAIRE.
 LUMINAIRES SHALL BE (OR APPROVED EQUAL)
 - HOLOPHANE HMLEDA_P2_40K_FTA, 4 HEADS FACING SAME DIRECTION (40691 LUMENS, 295 W, 4000K)
 - SIGNIFY LUMEC HFL_138L-530-NW-52-3, 4 HEADS FACING SAME DIRECTION (39905 LUMENS, 286 W, 4000K)
 - GE CURRENT ERMH02_40C3740, 4 HEADS FACING SAME DIRECTION (40000 LUMENS, 280 W, 4000K)

-PHOTOMETRIC DATA SHOWN IN PLANS ARE HOLOPHANE OPTION.

PHOTOMETRIC SUMMARY

HFL-138L-530-NW-52-3W (40691 LUMENS, 295 W, 4000K)
 HFL-138L-530L-W-52-3 (39905 LUMENS, 286 W, 4000K)

Grid Label	ILLUMINANCE (fc)	AVG ILLUMINANCE (fc)	MAX ILLUMINANCE (fc)	MIN ILLUMINANCE (fc)	AVERAGE ILLUMINANCE (fc)	Veiling Luminance
L77NB	0.89	1.85	0.32	2.78	0.24	
L77SB	0.87	1.77	0.25	3.35	0.23	
RAMP TO L77NB	0.84	2.09	0.25	3.38		
RAMP TO L77SB	1.09	2.52	0.28	3.88		
RAMP TO SC9WB	0.97	2.85	0.30	3.28		
RAMP TO SC5WB	1.05	2.72	0.25	4.20		
SC5WB	1.66	2.85	0.55	3.02	0.30	
SC9WB	1.50	2.85	0.61	2.46	0.27	

PHOTOMETRIC SUMMARY

ERMH02_40VW740 (40000 LUMENS, 280 W, 4000K)
 ERMH02_40C3740 (40000 LUMENS, 305 W, 4000K)

Grid Label	ILLUMINANCE (fc)	AVG ILLUMINANCE (fc)	MAX ILLUMINANCE (fc)	MIN ILLUMINANCE (fc)	AVERAGE ILLUMINANCE (fc)	Veiling Luminance
L77NB	0.83	2.11	0.29	2.79	0.21	
L77SB	0.78	2.07	0.27	2.89	0.29	
RAMP TO L77NB	0.86	2.41	0.28	3.43		
RAMP TO L77SB	1.13	2.77	0.30	3.77		
RAMP TO SC5WB	1.01	3.97	0.24	4.21		
RAMP TO SC9WB	1.10	3.15	0.25	4.40		
SC5WB	1.54	3.17	0.80	3.58	0.30	
SC9WB	1.42	3.77	0.44	3.27	0.38	

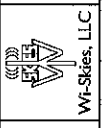
Luminaire Schedule

Symbol	Qty	Label	Arrangement	LF	Description
4	4	HMLEDA P2 40K AW - 5	5 @ 72 DEGREES	0.900	HMLEDA P2 40K XXXXX AW
1	1	HMLEDA P2 40K FTA 4	JH4	0.300	HMLEDA P2 40K XXXXX FTA
2	2	HMLEDA P2 40K FTA 6	6 SAME FACING DIRE	0.900	HMLEDA P2 40K XXXXX FTA

LIGHTING DESIGN CRITERIA:
 PER AASHTO DESIGN GUIDE 2016 - TABLE 3.5A:
 - INTERSTATE 77: EAVG = 0.6 FC, EAVGMIN = 0.2 FC, EAVGMAX = 41.1 LV MAX = 0.3
 - RAMP: EAVG = 0.9 EAVGMIN = 0.47
 - SC 9: EAVG = 1.2 FC, EAVGMIN = 41.1 LV MAX = 0.3

2					
3					
2					
1					
0					
0					

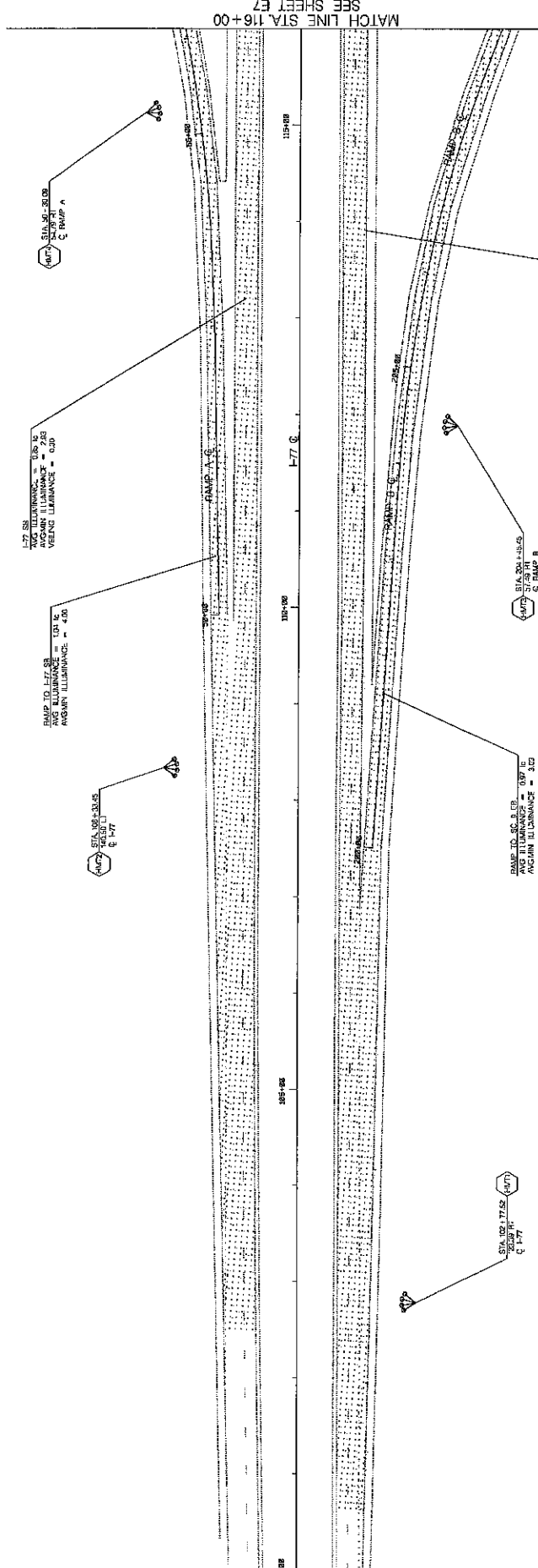
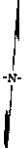
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
 I-77 & SC 9 (LANCASTER HWY)
 CHESTER COUNTY
 EXIT 65 HIGH MAST LIGHTING
 PHOTOMETRIC SUMMARY



PRELIMINARY
 NOT FOR CONSTRUCTION

NO SCALE

1	2	3	4	5	6	7	8	9	10	11	12
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00



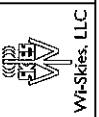
MATCH LINE STA. 16+00
SEE SHEET E7



SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
I-77 & SC 9 (LANCASTER HWY)
CHESTER COUNTY
EXIT 65 HIGH MAST LIGHTING
PLAN SHEET

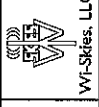
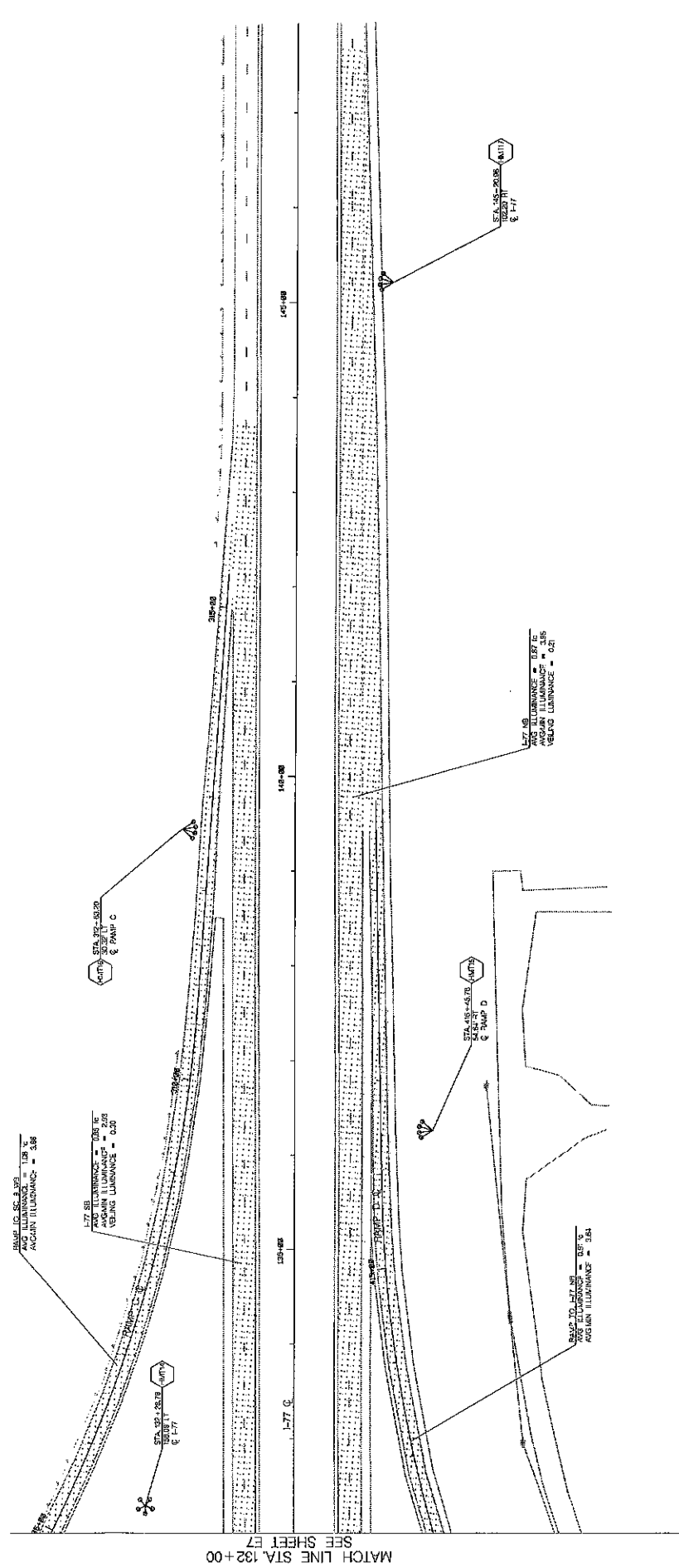
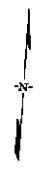
4			
3			
2			
1			
0			
R.O.			

PRELIMINARY
NOT FOR CONSTRUCTION



DATE: 08/14/2014
DRAWN BY: J. W. SMITH
CHECKED BY: J. W. SMITH
SCALE: 1" = 50'

NO.	DATE	BY	DESCRIPTION
1	08/14/18	JL	ISSUED FOR PERMITS
2	08/14/18	JL	REVISED PER COMMENTS
3	08/14/18	JL	REVISED PER COMMENTS
4	08/14/18	JL	REVISED PER COMMENTS

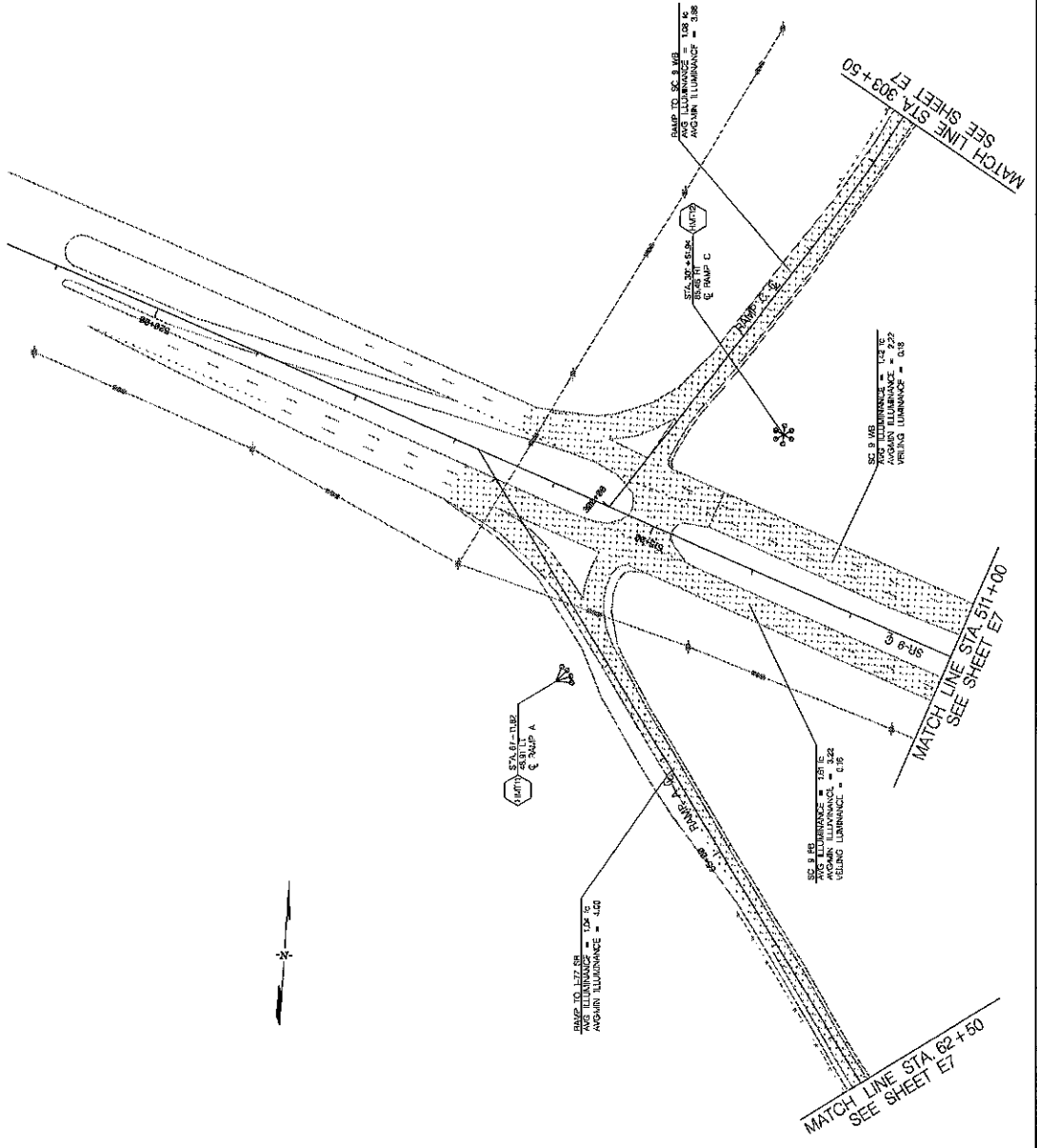


PRELIMINARY
NOT FOR CONSTRUCTION

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20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
I-77 & SC 9 (LANCASTER HWY)
CHESTER COUNTY
EXIT 65 HIGH MAINT LIGHTING
PLAN SHEET

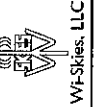
DATE	BY	CHKD BY	APP'D BY
5/22/19	WJ	WJ	WJ



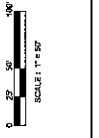
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION			
I-77 & SC 8 (LANCASTER HWY)			
CHESTER COUNTY			
EXIT 65 HIGH MAST LIGHTING			
PLAN SHEET			

4				
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24.15				

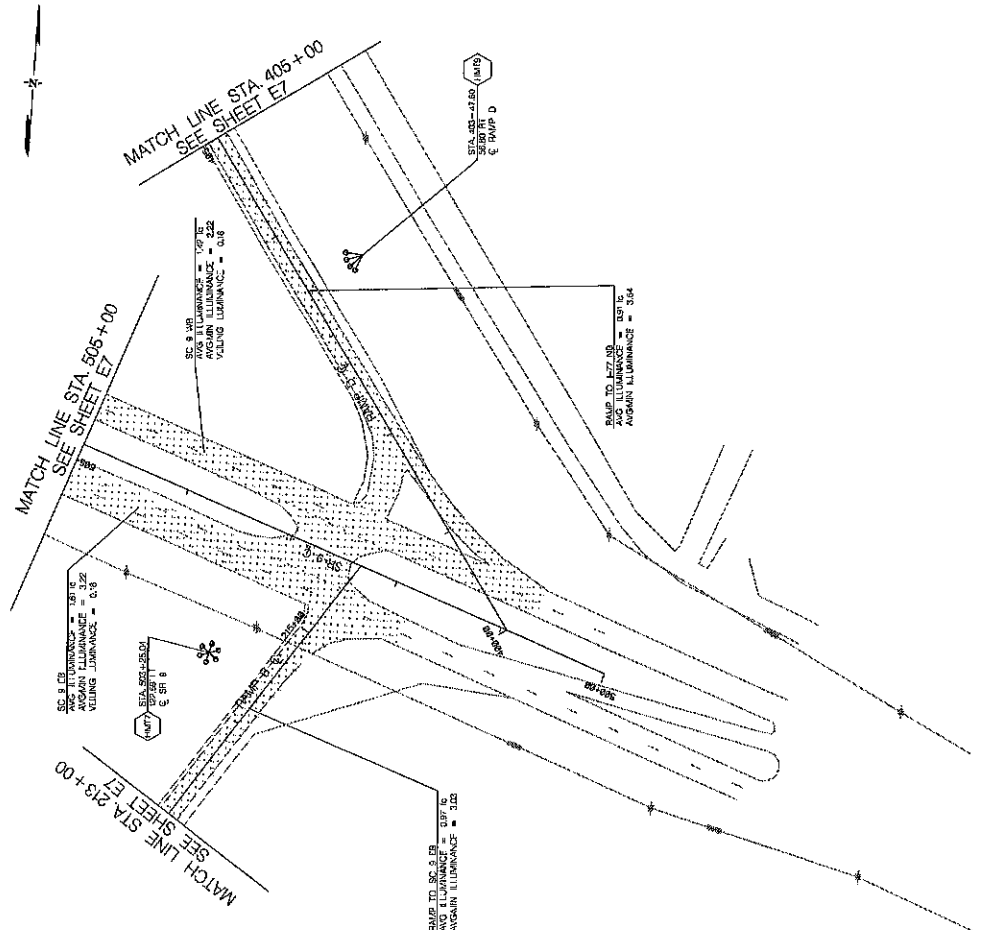
PRELIMINARY
NOT FOR CONSTRUCTION



WF-Stiles, LLC



DATE	BY	CHK'D	APP'D
11/11/11	WJ	WJ	WJ



SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
 I-77 & SC 9 (LANCASTER HWY)
 CHESTER COUNTY
 EXIT 65 HIGH MAST LIGHTING
 PLAN SHEET

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0			
0.5			

PRELIMINARY
 NOT FOR CONSTRUCTION



WF-SIGRES, LLC
 2550 W. 10TH ST.
 SUITE 100
 CHARLOTTE, NC 28203



11/11/11
 WJ
 WJ
 WJ



Certified Bid Tabulation
CHESTER COUNTY HIGH MAST LIGHTING PROJECT
RFB 20-46.12
Thursday, February 23, 2023, 2:30 PM

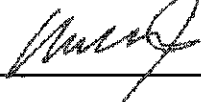


ITEM	DESCRIPTION	QUANTITY	UNIT	COMPANY NAME		COMPANY NAME	
				AOS Specility Contractors, Inc		Traffic Control Devices, LLC	
				UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE
1	Bonds and Insurance	1	LS	\$22,200.00	\$22,200.00	\$7,500.00	\$7,500.00
2	Mobilization	1	LS	\$15,500.00	\$15,500.00	\$61,500.00	\$61,500.00
3	Traffic Control	1	LS	\$88,100.00	\$88,100.00	\$61,000.00	\$61,000.00
4	Electric Service Connections	2	EA	\$18,450.00	\$36,900.00	\$21,825.00	\$43,650.00
5	S.L.T. SD. 40"AL. 12" TR. Arm Ground Mount	35	EA	\$17,400.00	\$609,000.00	\$11,000.00	\$385,000.00
6	High Mast Light Standard-120'(Galv. Steel) T.L. Low Dev.	4	EA	\$88,725.00	\$354,900.00	\$79,900.00	\$319,600.00
7	Portable Drive Motor for High Mast Lowering Device	1	EA	\$14,167.00	\$14,167.00	\$5,231.85	\$5,231.85
8	2.0" Schedule 80 PVC Conduit	10935	LF	\$20.00	\$218,700.00	\$12.10	\$132,313.50
9	2.0" Schedule 80 PVC Conduit - Direct Bored	660	LF	\$20.00	\$13,200.00	\$20.20	\$13,332.00
10	No. 2 Copper Wire, Conductor, 600V Type RHH, RHW, USE	26635	LF	\$2.40	\$63,924.00	\$4.50	\$119,857.50
11	No. 4 Bare Copper Wire Ground	8785	LF	\$1.75	\$15,373.75	\$3.35	\$29,429.75
12	No. 6 Copper Wire, Conductor, 600V Type RHH, RHW, USE	10005	LF	\$1.45	\$14,507.25	\$3.10	\$31,015.50
13	No. 8 Copper Wire, Conductor, 600V Type RHH, RHW, USE	3335	LF	\$1.00	\$3,335.00	\$2.10	\$7,003.50
14	17"x30"x18" D. Elec. Flush Under Grd. Enclosure - (Str.Poly Conc) HD	6	EA	\$1,000.00	\$6,000.00	\$1,542.00	\$9,252.00
15	Permanent Construction Signs (Ground Mounted)	672	SF	\$21.50	\$14,448.00	\$15.70	\$10,550.40
				TOTAL	\$1,490,255.00	TOTAL	\$1,236,236.00
				Ranking	4	Ranking	3

ITEM	DESCRIPTION	QUANTITY	UNIT	COMPANY NAME		COMPANY NAME	
				W M Roebuck, Inc.		MB Haynes Corporation	
				UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE
1	Bonds and Insurance	1	LS	\$20,900.00	\$20,900.00	\$7,500.00	\$7,500.00
2	Mobilization	1	LS	\$10,000.00	\$10,000.00	\$55,000.00	\$55,000.00
3	Traffic Control	1	LS	\$40,000.00	\$40,000.00	\$55,000.00	\$55,000.00
4	Electric Service Connections	2	EA	\$2,500.00	\$5,000.00	\$34,000.00	\$68,000.00
5	S.L.T. SD. 40"AL. 12" TR. Arm Ground Mount	35	EA	\$9,000.00	\$315,000.00	\$9,300.00	\$325,500.00
6	High Mast Light Standard-120'(Galv. Steel) T.L. Low Dev.	4	EA	\$60,000.00	\$240,000.00	\$65,000.00	\$260,000.00
7	Portable Drive Motor for High Mast Lowering Device	1	EA	\$10,000.00	\$10,000.00	\$5,250.00	\$5,250.00
8	2.0" Schedule 80 PVC Conduit	10935	LF	\$12.50	\$136,687.50	\$18.50	\$202,297.50
9	2.0" Schedule 80 PVC Conduit - Direct Bored	660	LF	\$20.00	\$13,200.00	\$32.00	\$21,120.00
10	No. 2 Copper Wire, Conductor, 600V Type RHH, RHW, USE	26635	LF	\$6.00	\$159,810.00	\$5.00	\$133,175.00
11	No. 4 Bare Copper Wire Ground	8785	LF	\$5.00	\$43,925.00	\$4.00	\$35,140.00
12	No. 6 Copper Wire, Conductor, 600V Type RHH, RHW, USE	10005	LF	\$5.00	\$50,025.00	\$3.00	\$30,015.00
13	No. 8 Copper Wire, Conductor, 600V Type RHH, RHW, USE	3335	LF	\$5.00	\$16,675.00	\$3.00	\$10,005.00
14	17"x30"x18" D. Elec. Flush Under Grd. Enclosure - (Str.Poly Conc) HD	6	EA	\$750.00	\$4,500.00	\$900.00	\$5,400.00
15	Permanent Construction Signs (Ground Mounted)	672	SF	\$30.00	\$20,160.00	\$34.00	\$22,848.00
				TOTAL	\$1,085,892.50	TOTAL	\$1,236,250.50
				Ranking	1	Ranking	2

The signature below certifies that the bids tabulated herein are an accurate summary of the bids received and that any discrepancies have been identified, corrected in tabulations and are identified below. Based on the bid tabulations herein, *WM Roebuck, Inc.*, is the lowest responsive

1. MB Haynes had an extension error on Line Item 4.

Signature 

William L. Coleman, Jr.
Project Manager

Date 2/24/2023