



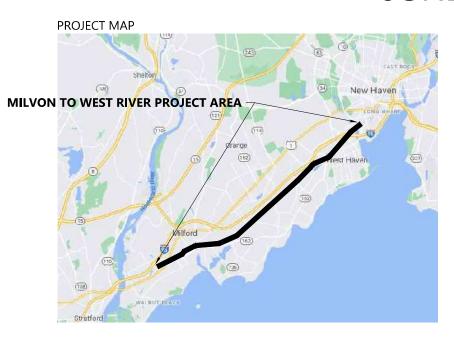
## **DEVELOPMENT & MANAGEMENT PLAN**

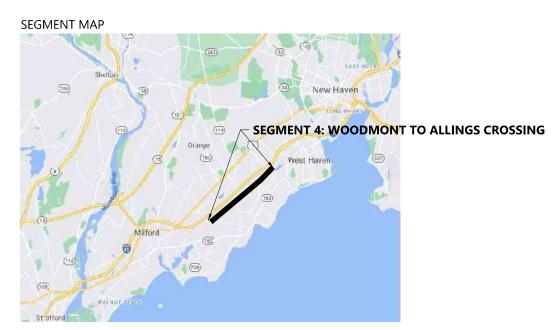
MILVON TO WEST RIVER RAILROAD TRANSMISSION LINE 115-kV REBUILD PROJECT (CONNECTICUT SITING COUNCIL DOCKET NO. 508)

SEGMENT 4: WOODMONT SUBSTATION TO ALLINGS CROSSING SUBSTATION CITY OF MILFORD, TOWN OF ORANGE, CITY OF WEST HAVEN NEW HAVEN COUNTY, CONNECTICUT

VOLUME 2: MAPS, DRAWINGS AND RESOURCE SPECIFICATIONS
JUNE 2024

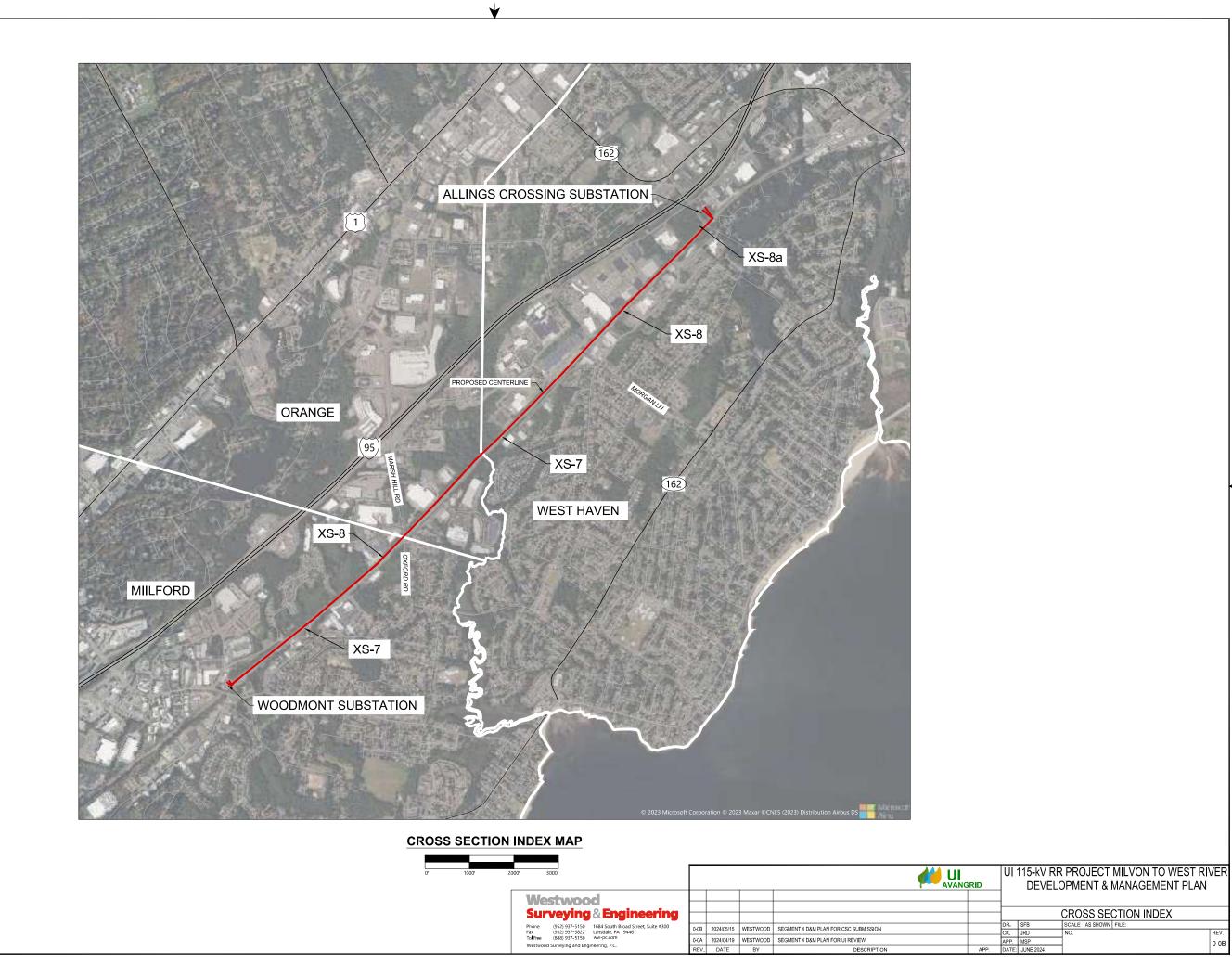
	SHEET INDEX
	CROSS SECTIONS
NUMBER	DESCRIPTION
XS INDEX 1 OF 1	CROSS SECTION INDEX
XS 1 OF 2	CROSS SECTION 7
XS 2 OF 2	CROSS SECTION 8
XS 3 OF 3	CROSS SECTION 8a
	MAPSHEETS
NUMBER	DESCRIPTION
MAPSHEET INDEX 1 OF 1	MAPSHEET INDEX
MAPSHEETS 1 TO 12	D&M PLAN MAPSHEETS AND STRUCTURE NOTE
SUB WORK INDEX 1 OF 1	SUBSTATION WORK PLAN INDEX
SUB 1 OF 2	WOODMONT SUBSTATION
SUB 2 OF 2	ALLINGS CROSSING SUBSTATION
	DETAIL SHEETS
NUMBER	DESCRIPTION
DETAIL INDEX 1 OF 1	DETAIL INDEX
DET 1 OF 2	EROSION & SEDIMENT CONTROL DETAILS
DET 2 OF 2	CONSTRUCTION DETAILS
STRUCTURE INDEX 1 OF 1	STRUCTURE INDEX
STR 1 OF 2	TYPICAL STRUCTURE CONFIGURATIONS
STR 2 OF 2	TYPICAL FOUNDATION & GROUNDING DETAILS

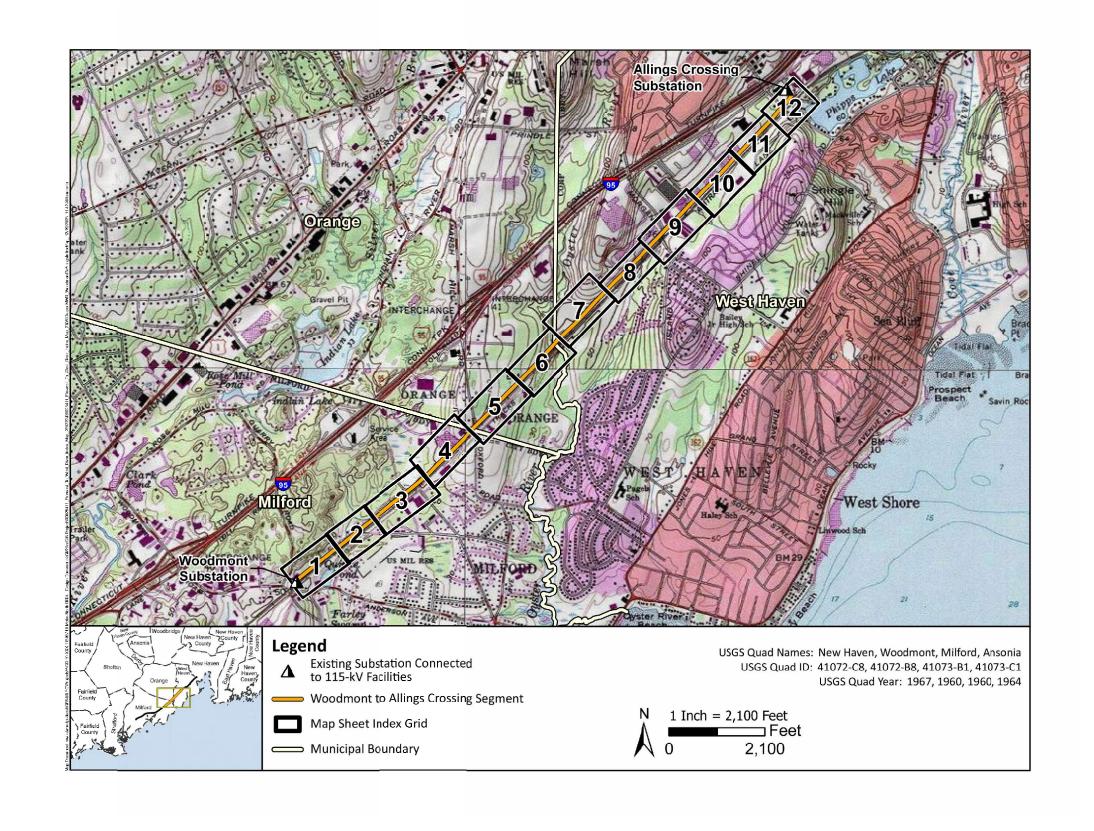




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Surveying & Engineering									COVER	
Phone (952) 937-5150 1684 South Broad Street, Suite #300	0-0B	2024/05/15	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION			DR.	SFB	SCALE AS SHOWN FILE:	
Fax (952) 937-5822 Lansdale, PA 19446	0-00						CK.	JRD	NO.	REV.
Tol Free (888) 937-5150 ww-pc.com	0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW			APP.	MSP		0-0B
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			•	UI AVANG		UI <sup>·</sup>		I PROJECT MILVON TO WEST R DPMENT & MANAGEMENT PLAN	
+								MAPSHEET INDEX	
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)A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW				MSP	INO.	0-0B
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P959N         7         81.5         144         20         124         -           P960N         7         86         143         25         118         -           P961N         7         111         119         25         94         -           P962N         7         117         96         29         67         -           P963N         7         117         79         29         50         -           P964N         7         106         61         28         33         -           P965N         7         112         61         28         33         -           P966N         7         112         61         28         33         -           P966N         7         116.5         96         30         66         -           P968N         7         117         96         32         64         -           P969N         7         112         96         33         63         -           P970N         7         101         56         23         33         -           P977N         7         112         96         2	STRUCTURE NO.	CROSS SECTION #	STRUCTURE HEIGHT (FT)	A (ft)	B (ft)	C (ft)	D (ft)
P86IN         7         111         119         25         94         -           P962N         7         117         96         29         67         -           P963N         7         117         79         29         50         -           P964N         7         106         61         28         33         -           P965N         7         112         61         28         33         -           P966AN         7         116.5         96         30         66         -           P968N         7         117         96         32         64         -           P968N         7         112         96         33         63         -           P970N         7         101         56         23         33         -           P971N         7         106         56         23         33         -           P971N         7         112         96         30         66         -           P978N         7         91         96         30         66         -           P979N         7         81         96         30 <td>P959N</td> <td>7</td> <td>81.5</td> <td>144</td> <td>20</td> <td>124</td> <td>-</td>	P959N	7	81.5	144	20	124	-
P962N         7         117         96         29         67         -           P963N         7         117         79         29         50         -           P964N         7         106         61         28         33         -           P965N         7         112         61         28         33         -           P966N         7         1165         96         30         66         -           P968N         7         117         96         32         64         -           P969N         7         112         96         33         63         -           P970N         7         101         56         23         33         -           P971N         7         106         56         23         33         -           P971N         7         112         96         30         66         -           P978N         7         91         96         30         66         -           P979N         7         81         96         30         66         -           P980N         7         81         96         25	P960N	7	86	143	25	118	-
P963N         7         117         79         29         50         -           P964N         7         106         61         28         33         -           P966N         7         112         61         28         33         -           P966N         7         1165         96         30         66         -           P968N         7         117         96         32         64         -           P969N         7         112         96         33         63         -           P970N         7         101         56         23         33         -           P971N         7         106         56         23         33         -           P977N         7         112         96         22         74         -           P978N         7         91         96         30         66         -           P979N         7         81         96         30         66         -           P980N         7         81         96         25         71         -           P981N         7         86         76         25	P961N	7	111	119	25	94	-
P964N         7         106         61         28         33         -           P965N         7         112         61         28         33         -           P966N         7         116.5         96         30         66         -           P968N         7         117         96         32         64         -           P969N         7         112         96         33         63         -           P970N         7         101         56         23         33         -           P971N         7         106         56         23         33         -           P97NN         7         112         96         22         74         -           P97NN         7         112         96         22         74         -           P97NN         7         81         96         30         66         -           P97NN         7         81         96         30         66         -           P98NN         7         81         96         25         71         -           P981N         7         86         76         25	P962N	7	117	96	29	67	-
P965N         7         112         61         28         33         -           P966AN         7         116.5         96         30         66         -           P968N         7         117         96         32         64         -           P969N         7         112         96         33         63         -           P970N         7         101         56         23         33         -           P971N         7         106         56         23         33         -           P978N         7         112         96         22         74         -           P978N         7         91         96         30         66         -           P979N         7         81         96         30         66         -           P980N         7         81         96         25         71         -           P981N         7         86         76         25         51         -           P982N         7         96         77         26         51         -           P983N         7         106,5         76         42	P963N	7	117	79	29	50	-
P966AN         7         116.5         96         30         66         -           P968N         7         117         96         32         64         -           P969N         7         112         96         33         63         -           P970N         7         101         56         23         33         -           P971N         7         106         56         23         33         -           P977N         7         112         96         22         74         -           P978N         7         91         96         30         66         -           P979N         7         81         96         30         66         -           P980N         7         81         96         25         71         -           P980N         7         86         76         25         51         -           P982N         7         96         77         26         51         -           P983N         7         106,5         76         42         34         -           P986N         7         96         76         28	P964N	7	106	61	28	33	-
P968N         7         117         96         32         64         -           P969N         7         112         96         33         63         -           P97ON         7         101         56         23         33         -           P971N         7         106         56         23         33         -           P971N         7         112         96         22         74         -           P978N         7         91         96         30         66         -           P980N         7         81         96         30         66         -           P980N         7         81         96         25         71         -           P981N         7         96         76         25         51         -           P983N         7         106.5         76         42         34         -           P985N         7         106         76         42         34         -           P987AN/NN         7         96         76         28         48         -           P987AN/NN         7         96         76         35 </td <td>P965N</td> <td>7</td> <td>112</td> <td>61</td> <td>28</td> <td>33</td> <td>-</td>	P965N	7	112	61	28	33	-
P969N         7         112         96         33         63         -           P970N         7         101         56         23         33         -           P971N         7         106         56         23         33         -           P977N         7         112         96         22         74         -           P978N         7         91         96         30         66         -           P979N         7         81         96         30         66         -           P980N         7         81         96         25         71         -           P981N         7         86         76         25         51         -           P982N         7         96         77         26         51         -           P983N         7         106,5         76         42         34         -           P985N         7         91         76         34         34         -           P987ANINN         7         96         76         28         48         -           P987ANINN         7         96         76         35 <td>P966AN</td> <td>7</td> <td>116.5</td> <td>96</td> <td>30</td> <td>66</td> <td>-</td>	P966AN	7	116.5	96	30	66	-
P970N         7         101         56         23         33         -           P971N         7         106         56         23         33         -           P977N         7         112         96         22         74         -           P978N         7         91         96         30         66         -           P979N         7         81         96         30         66         -           P980N         7         81         96         25         71         -           P981N         7         86         76         25         51         -           P982N         7         96         77         26         51         -           P983N         7         106,5         76         42         34         -           P985N         7         106         76         42         34         -           P987ANNN         7         91         76         34         42         -           P987ANNN         7         96         76         28         48         -           P987ANNN         7         96         76         35 <td>P968N</td> <td>7</td> <td>117</td> <td>96</td> <td>32</td> <td>64</td> <td>-</td>	P968N	7	117	96	32	64	-
P971N         7         106         56         23         33         -           P977N         7         112         96         22         74         -           P978N         7         91         96         30         66         -           P979N         7         81         96         30         66         -           P980N         7         81         96         25         71         -           P981N         7         86         76         25         51         -           P982N         7         96         77         26         51         -           P983N         7         106.5         76         42         34         -           P985N         7         106         76         42         34         -           P987ANNN         7         96         76         28         48         -           P987ANNN         7         96         76         35         41         -           P987ANNN         7         96         76         35         41         -           P988N         7         96         76         35 <td>P969N</td> <td>7</td> <td>112</td> <td>96</td> <td>33</td> <td>63</td> <td>-</td>	P969N	7	112	96	33	63	-
P977N         7         112         96         22         74         -           P978N         7         91         96         30         66         -           P980N         7         81         96         30         66         -           P980N         7         81         96         25         71         -           P981N         7         86         76         25         51         -           P982N         7         96         77         26         51         -           P983N         7         106,5         76         42         34         -           P986N         7         91         76         34         42         -           P987ANNN         7         96         76         28         48         -           P988N         7         96         76         35         41         -           P989N         7         91         76         40         36         -           P999N         7         86         76         40         36         -           P991N         7         96.5         76         24	P970N	7	101	56	23	33	-
P978N         7         91         96         30         66         -           P979N         7         81         96         30         66         -           P980N         7         81         96         25         71         -           P981N         7         86         76         25         51         -           P982N         7         96         77         26         51         -           P983N         7         106.5         76         42         34         -           P985N         7         106         76         42         34         -           P987AN/NN         7         96         76         28         48         -           P988N         7         96         76         35         41         -           P989N         7         91         76         40         36         -           P999N         7         86         76         40         36         -           P991N         7         96.5         76         28         48         -           P992N         7         96.5         76         24	P971N	7	106	56	23	33	-
P979N         7         81         96         30         66         -           P980N         7         81         96         25         71         -           P981N         7         86         76         25         51         -           P982N         7         96         77         26         51         -           P983N         7         106.5         76         42         34         -           P985N         7         106         76         42         34         -           P986N         7         91         76         34         42         -           P987AN/NN         7         96         76         28         48         -           P988N         7         91         76         40         36         -           P990N         7         86         76         40         36         -           P991N         7         91         76         28         48         -           P991N         7         96.5         76         24         52         -           P993N         7         96.5         76         24	P977N	7	112	96	22	74	-
P980N         7         81         96         25         71         -           P981N         7         86         76         25         51         -           P982N         7         96         77         26         51         -           P983N         7         106.5         76         42         34         -           P985N         7         106         76         42         34         -           P987ANINN         7         91         76         34         42         -           P988N         7         96         76         28         48         -           P989N         7         91         76         40         36         -           P990N         7         86         76         40         36         -           P991N         7         91         76         28         48         -           P992N         7         96.5         76         24         52         -           P993N         7         106         76         25         51         -           P993N         7         106         76         25	P978N	7	91	96	30	66	-
P981N         7         86         76         25         51         -           P982N         7         96         77         26         51         -           P983N         7         106,5         76         42         34         -           P985N         7         106         76         42         34         -           P986N         7         91         76         34         42         -           P987ANINN         7         96         76         28         48         -           P988N         7         96         76         35         41         -           P989N         7         91         76         40         36         -           P990N         7         86         76         40         36         -           P991N         7         91         76         28         48         -           P992N         7         96.5         76         24         52         -           P993N         7         106         76         25         51         -           P994N         7         121         76         25	P979N	7	81	96	30	66	-
P982N         7         96         77         26         51         -           P983N         7         106,5         76         42         34         -           P986N         7         106         76         42         34         -           P986N         7         91         76         34         42         -           P987ANNN         7         96         76         28         48         -           P988N         7         96         76         35         41         -           P989N         7         91         76         40         36         -           P990N         7         86         76         40         36         -           P991N         7         91         76         28         48         -           P992N         7         96.5         76         24         52         -           P993N         7         106         76         25         51         -           P994N         7         121         76         25         51         -	P980N	7	81	96	25	71	-
P983N         7         106.5         76         42         34         -           P985N         7         106         76         42         34         -           P986N         7         91         76         34         42         -           P987AN/NN         7         96         76         28         48         -           P988N         7         96         76         35         41         -           P989N         7         91         76         40         36         -           P990N         7         86         76         40         36         -           P991N         7         91         76         28         48         -           P992N         7         96.5         76         24         52         -           P993N         7         106         76         25         51         -           P994N         7         121         76         25         51         -	P981N	7	86	76	25	51	-
P985N         7         106         76         42         34         -           P986N         7         91         76         34         42         -           P987AN/NN         7         96         76         28         48         -           P988N         7         96         76         35         41         -           P989N         7         91         76         40         36         -           P990N         7         86         76         40         36         -           P991N         7         91         76         28         48         -           P992N         7         96.5         76         24         52         -           P993N         7         106         76         25         51         -           P994N         7         121         76         25         51         -	P982N	7	96	77	26	51	-
P986N         7         91         76         34         42         -           P987AN/NN         7         96         76         28         48         -           P988N         7         96         76         35         41         -           P989N         7         91         76         40         36         -           P990N         7         86         76         40         36         -           P991N         7         91         76         28         48         -           P992N         7         96.5         76         24         52         -           P993N         7         106         76         25         51         -           P994N         7         121         76         25         51         -	P983N	7	106.5	76	42	34	-
P987AN/NN         7         96         76         28         48         -           P988N         7         96         76         35         41         -           P989N         7         91         76         40         36         -           P990N         7         86         76         40         36         -           P991N         7         91         76         28         48         -           P992N         7         96.5         76         24         52         -           P993N         7         106         76         25         51         -           P994N         7         121         76         25         51         -	P985N	7	106	76	42	34	-
P988N         7         96         76         35         41         -           P989N         7         91         76         40         36         -           P990N         7         86         76         40         36         -           P991N         7         91         76         28         48         -           P992N         7         96.5         76         24         52         -           P993N         7         106         76         25         51         -           P994N         7         121         76         25         51         -	P986N	7	91	76	34	42	-
P889N         7         91         76         40         36         -           P990N         7         86         76         40         36         -           P991N         7         91         76         28         48         -           P992N         7         96.5         76         24         52         -           P993N         7         106         76         25         51         -           P994N         7         121         76         25         51         -	P987AN/NN	7	96	76	28	48	-
P990N         7         86         76         40         36         -           P991N         7         91         76         28         48         -           P992N         7         96.5         76         24         52         -           P993N         7         106         76         25         51         -           P994N         7         121         76         25         51         -	P988N	7	96	76	35	41	-
P991N         7         91         76         28         48         -           P992N         7         96.5         76         24         52         -           P993N         7         106         76         25         51         -           P994N         7         121         76         25         51         -	P989N	7	91	76	40	36	-
P992N         7         96.5         76         24         52         -           P993N         7         106         76         25         51         -           P994N         7         121         76         25         51         -	P990N	7	86	76	40	36	-
P993N         7         106         76         25         51         -           P994N         7         121         76         25         51         -	P991N	7	91	76	28	48	-
P994N 7 121 76 25 51 -	P992N	7	96.5	76	24	52	-
	P993N	7	106	76	25	51	-
P1008WN 7 101 71 39 32 -	P994N	7	121	76	25	51	-
	P1008WN	7	101	71	39	32	-

## **EXISTING**

(VIEW FACING EAST)

A THE WIDTH OF THE EXISTING CT DOT CORRIDOR IN THE PROJECT AREA IS HIGHLY VARIABLE. REFER TO PROJECT MAPS AND DRAWINGS, FOR CT DOT CORRIDOR BOUNDARIES.

<sup>B</sup> THIS DISTANCE AVERAGES TO BE 29'-6" BUT RANGES FROM 20'-0" TO 42'-0". REFER TO TABLE ABOVE FOR EXACT DISTANCES.

 $^{\rm C}$  The distance between the proposed 115-KV DOUBLE-CIRCUIT STRUCTURES AND THE EXISTING CT DOT CORRIDOR NORTHERN BOUNDARY VARIES. REFER TO TABLE ABOVE FOR EXACT DISTANCES.

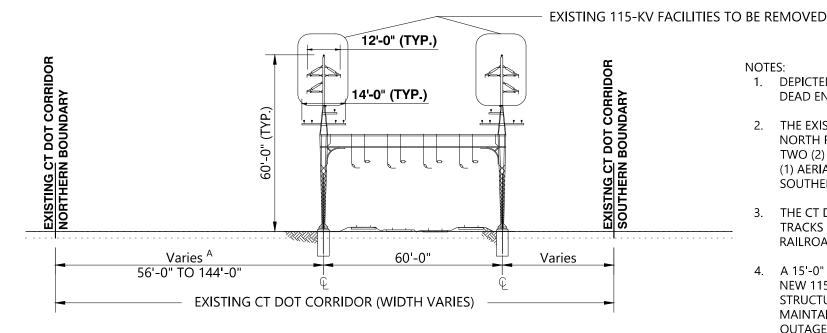
<sup>F</sup> THE HEIGHT OF THE NEW 115-KV DOUBLE-CIRCUIT STRUCTURES VARIES. REFER TO TABLE ABOVE FOR EXACT STRUCTURE HEIGHTS.

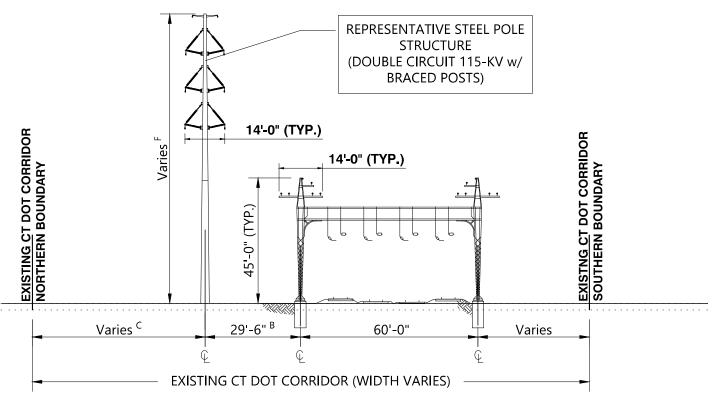
**PROPOSED** 

(VIEW FACING EAST)

## **CROSS SECTION 7**

**WOODMONT SUBSTATION TO ALLINGS CROSSING SUBSTATION:** STR P959N (MILFORD) TO STR P971N (MILFORD) - 0.74 MILES, STR P977N (ORANGE) TO STR P994N (WEST HAVEN) - 1.14 MILES





#### NOTES:

- DEPICTED STRUCTURES ARE STEEL TANGENT STRUCTURES. DEAD END STRUCTURES WILL DIFFER.
- 2. THE EXISTING CATENARY STRUCTURES SUPPORT METRO NORTH RAILROAD ELECTRICAL FACILITIES CONSISTING OF TWO (2) SIGNAL WIRES, 2 OR 3 FEEDER WIRES, AND ONE (1) AERIAL GROUND WIRE, BOTH ON THE NORTHERN AND SOUTHERN CATENARY SUPPORT COLUMNS.
- THE CT DOT CORRIDOR CONTAINS FOUR (4) RAILROAD TRACKS IN THIS AREA OPERATED BY METRO NORTH RAILROAD.
- 4. A 15'-0" CLEARANCE MUST BE MAINTAINED BETWEEN THE NEW 115-KV CONDUCTORS AND THE EXISTING CATENARY STRUCTURES SO THAT METRO NORTH RAILROAD CAN MAINTAIN THEIR EQUIPMENT WITHOUT REQUIRING AN OUTAGE ON THE 115-KV FACILITIES.
- EXISTING VEGETATION WITHIN THE CT DOT CORRIDOR VARIES BY LOCATION. REFER TO PROJECT MAPS AND DRAWINGS, FOR LOCATIONS OF PROPOSED TREE REMOVAL.
- TO COMPLY WITH UI STANDARD TRANSMISSION VEGETATION MANAGEMENT PLANS, UI REQUIRES VEGETATION MANAGEMENT IN THE AREA THAT IS 32'-0" FROM EACH STRUCTURE CENTER (25'-0" FROM CONDUCTOR ATTACHMENT POINT). IN LOCATIONS WHERE THE CT DOT CORRIDOR NORTHERN BOUNDARY IS GREATER THAN 32'-0" FROM THE PROPOSED STRUCTURE LOCATION, UI WILL NOT NEED ANY PERMANENT EASEMENT FROM ADJACENT LANDOWNERS TO ACHIEVE THESE CLEARANCES.
- DISTANCE FROM SOUTHERN CATENARY STRUCTURE TO CT DOT CORRIDOR SOUTHERN BOUNDARY WILL REMAIN UNCHANGED FROM EXISTING CONDITIONS.

					UI AVANO		UI <sup>·</sup>			MILVON TO WEST RI	
Westwood Surveying & Engineering									•	XS-7	
Phone (952) 937-5150 1684 South Broad Street, Suite #300 Fax (952) 937-5822 Lansdale, PA 19446 Tol Free (888) 937-5150 ww-pc.com	0-0B 0-0A	2024/05/15		SEGMENT 4 D&M PLAN FOR CSC SUBMISSION SEGMENT 4 D&M PLAN FOR UI REVIEW			CK.	SFB JRD MSP	SCALE AS SHOWN NO.		REV.
Westwood Surveying and Engineering, P.C.	REV.	DATE	BY	DESCRIPTION		APP.	DATE:	JUNE 2024	1 ,	1010	0-01

STRUCTURE NO.	CROSS SECTION #	STRUCTURE HEIGHT (FT)	A (ft)	B (ft)	C (ft)	D (ft)
P972N	8	101	45	27	18	14
P973AN/NN	8	96	43	23	20	13
P974N	8	106	56	25	31	1
P975EN	8	101	55	30	25	7
P996N	8	111	36	31	5	27
P997N	8	101	36	28	8	24
P998N	8	91	36	31	5	27
P999N	8	91	37	29	8	21
P1000N	8	91	37	29	8	20
P1001N	8	91	37	25	12	20
P1002N	8	91	36	26	10	22
P1003N	8	91	36	25	11	21
P1004N	8	81	36	32	4	28
P1005N	8	76	36	32	4	28
P1006N	8	86.5	37	26	11	21

**EXISTING** (VIEW FACING EAST)

A THE WIDTH OF THE EXISTING CT DOT CORRIDOR IN THE PROJECT AREA IS HIGHLY VARIABLE. REFER TO PROJECT MAPS AND DRAWINGS, FOR CT DOT CORRIDOR BOUNDARIES.

B THIS DISTANCE AVERAGES TO BE 28'-0" BUT RANGES FROM 23'-0" TO 32'-0". REFER TO TABLE ABOVE FOR EXACT DISTANCES.

<sup>C</sup> THE DISTANCE BETWEEN THE PROPOSED 115-KV DOUBLE-CIRCUIT STRUCTURES AND THE EXISTING CT DOT CORRIDOR NORTHERN BOUNDARY VARIES. REFER TO TABLE ABOVE FOR EXACT DISTANCES.

<sup>D</sup> THE WIDTH OF UI'S REQUIRED NEW PERMANENT EASEMENT VARIES. REFER TO TABLE ABOVE.

<sup>E</sup> REFER TO PROJECT MAPS AND DRAWINGS, FOR PROPOSED EASEMENT BOUNDARY LIMITS.

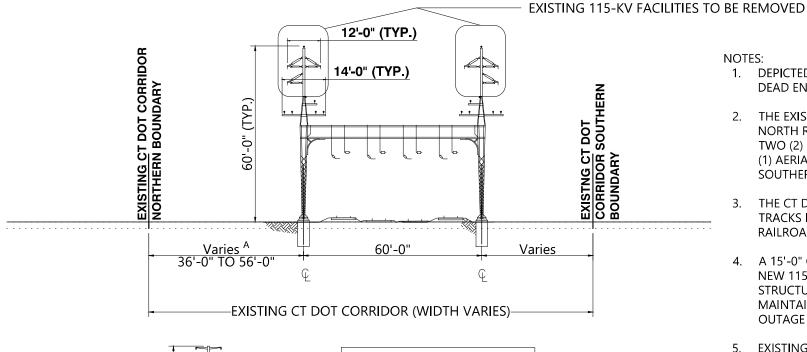
F THE HEIGHT OF THE NEW 115-KV DOUBLE-CIRCUIT STRUCTURES VARIES. REFER TO TABLE ABOVE FOR EXACT STRUCTURE HEIGHTS.

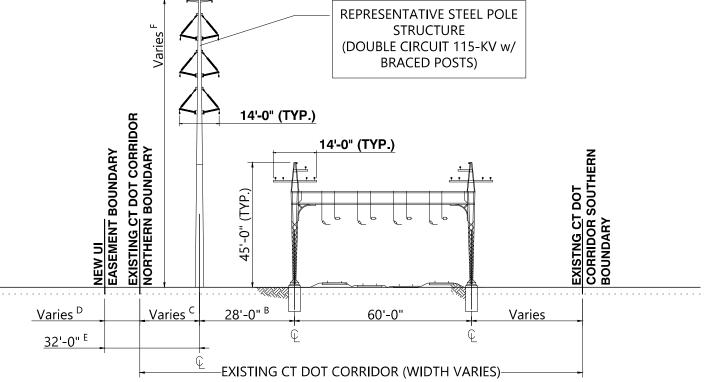
**PROPOSED** 

(VIEW FACING EAST)

## **CROSS SECTION 8**

**WOODMONT SUBSTATION TO ALLINGS CROSSING SUBSTATION:** STR P972N (MILFORD) TO STR P975EN (MILFORD) - 0.36 MILES, STR P996N (WEST HAVEN) TO STR P1006N (WEST HAVEN) - 0.61 MILES

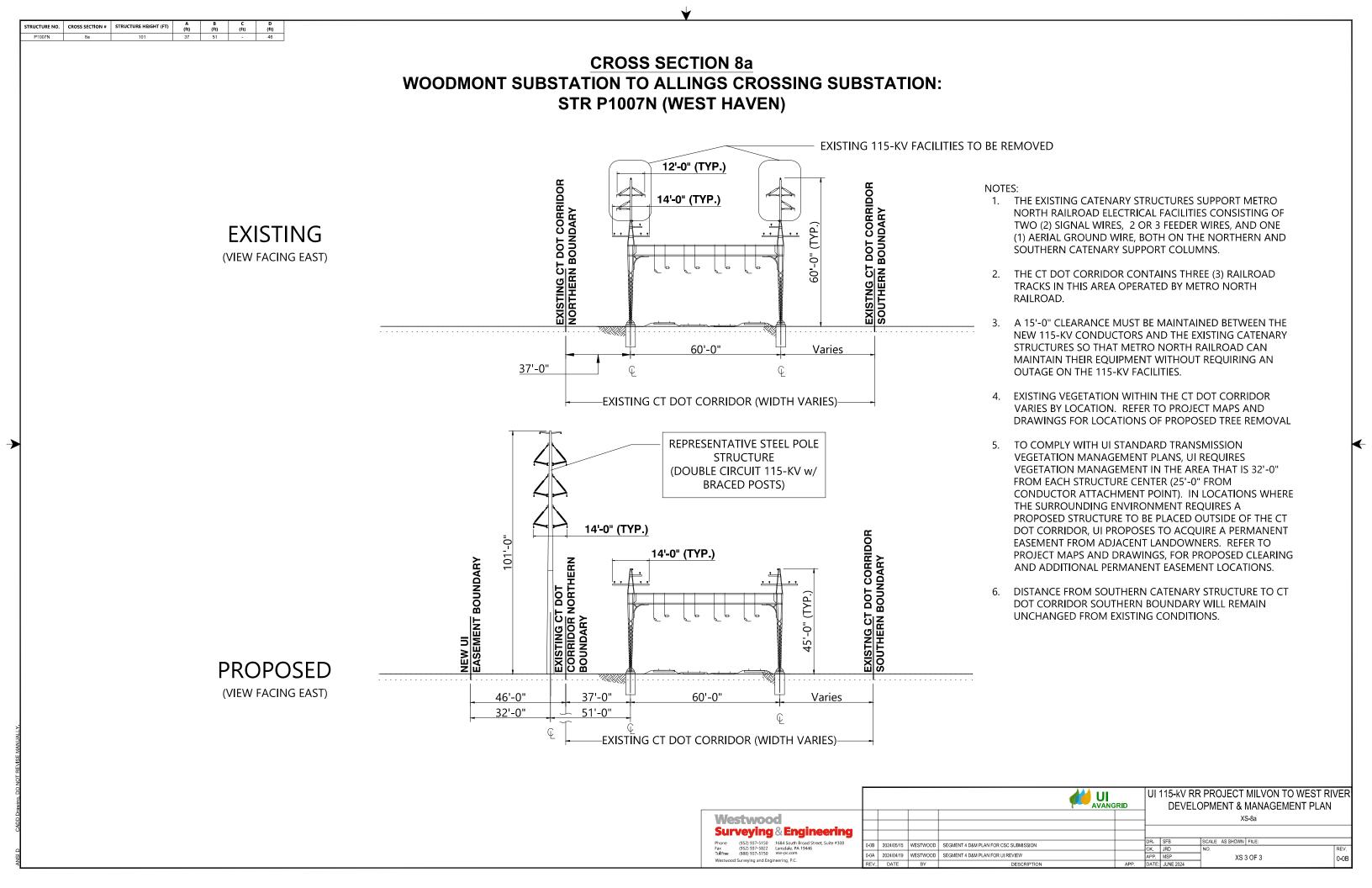


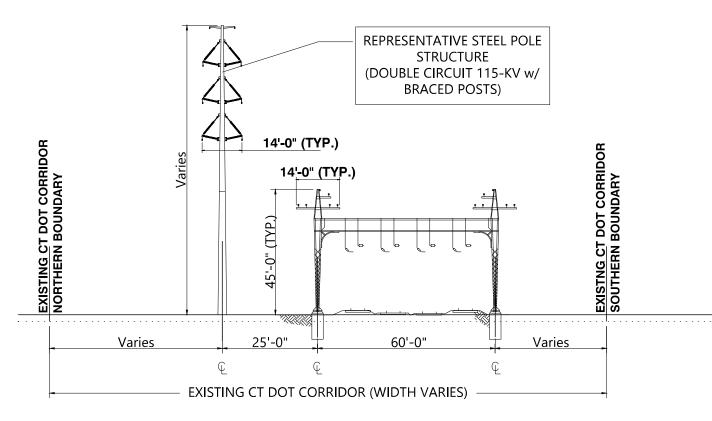


#### NOTES:

- DEPICTED STRUCTURES ARE STEEL TANGENT STRUCTURES. DEAD END STRUCTURES WILL DIFFER.
- 2. THE EXISTING CATENARY STRUCTURES SUPPORT METRO NORTH RAILROAD ELECTRICAL FACILITIES CONSISTING OF TWO (2) SIGNAL WIRES, 2 OR 3 FEEDER WIRES, AND ONE (1) AERIAL GROUND WIRE, BOTH ON THE NORTHERN AND SOUTHERN CATENARY SUPPORT COLUMNS.
- THE CT DOT CORRIDOR CONTAINS FOUR (4) RAILROAD TRACKS IN THIS AREA OPERATED BY METRO NORTH RAILROAD.
- A 15'-0" CLEARANCE MUST BE MAINTAINED BETWEEN THE NEW 115-KV CONDUCTORS AND THE EXISTING CATENARY STRUCTURES SO THAT METRO NORTH RAILROAD CAN MAINTAIN THEIR EQUIPMENT WITHOUT REQUIRING AN OUTAGE ON THE 115-KV FACILITIES.
- EXISTING VEGETATION WITHIN THE CT DOT CORRIDOR VARIES BY LOCATION. REFER TO PROJECT MAPS AND DRAWINGS, FOR LOCATIONS OF PROPOSED TREE REMOVAL.
- TO COMPLY WITH UI STANDARD TRANSMISSION VEGETATION MANAGEMENT PLANS, UI REQUIRES VEGETATION MANAGEMENT IN THE AREA THAT IS 32'-0" FROM EACH STRUCTURE CENTER (25'-0" FROM CONDUCTOR ATTACHMENT POINT). IN LOCATIONS WHERE THE CT DOT CORRIDOR NORTHERN BOUNDARY IS LESS THAN 32'-0" FROM THE PROPOSED STRUCTURE LOCATION. UI PROPOSES TO ACQUIRE A PERMANENT EASEMENT FROM ADJACENT LANDOWNERS. REFER TO PROJECT MAPS AND DRAWINGS, FOR PROPOSED ADDITIONAL PERMANENT EASEMENT LOCATIONS.
- 7. DISTANCE FROM SOUTHERN CATENARY STRUCTURE TO CT DOT CORRIDOR SOUTHERN BOUNDARY WILL REMAIN UNCHANGED FROM EXISTING CONDITIONS.

				Ą	UI AVANG		UI		R PROJECT MILVON TO WEST F DPMENT & MANAGEMENT PLA	
Westwood							-		XS-8	
Surveying & Engineering										
Phone (952) 937-5150 1684 South Broad Street, Suite #300	0-0B	2024/05/45	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION			DR.	SFB	SCALE AS SHOWN FILE:	
Fax (952) 937-5822 Lansdale, PA 19446	0-06	2024/03/13	WESTWOOD	SEGMENT 4 DAM FLAN FOR CSC SUBMISSION			CK.	JRD	NO.	REV.
Tol Free (888) 937-5150 ww-pc.com	0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW			APP.	MSP	1 XS 2 OF 3	0-0B
Westwood Surveying and Engineering, P.C.	REV.	DATE	BY	DESCRIPTION		APP.	DATE:	JUNE 2024		0 00





STRUCTURE NO.	STRUCTURE TYPE	CROSS SECTION	HEIGHT (FT)	FOUNDATION
P958ES	DEADEND	N/A*	81	CONCRETE DRILLED PIER
P959WS	DEADEND	N/A*	81	CONCRETE DRILLED PIER
P959S	DEADEND	N/A*	81.5	CONCRETE DRILLED PIER
P959N	DEADEND	XS-7	81.5	CONCRETE DRILLED PIER
P960N	TANGENT	XS-7	86	CONCRETE DRILLED PIER
P961N	TANGENT	XS-7	111	CONCRETE DRILLED PIER
P962N	TANGENT	XS-7	117	CONCRETE DRILLED PIER
*THESE STRUC		MENTS ARE NON- E DRAWINGS FOR	•	DJECT PLAN AND

## STRUCTURE DETAIL TABLE

## **GENERAL NOTES**

#### GENERAL WORK DESCRIPTION

- NEW STEEL MONOPOLES P958ES, P959WS, P959N, P959S, P960N, P961N, AND P962N WILL BE INSTALLED.
- BONNETS B959S, B960N/S, B960AN/S, B961N/S, B961AN/S, AND B962AN/S WILL BE REMOVED.
- HARDWARE AND INSULATORS ON THE TERMINATION STRUCTURES ASSOCIATED WITH LINES 89005B-1, 8804A, AND 8904B AT WOODMONT SUBSTATION WILL BE REPLACED.
- EXISTING STEEL POLES P958N AND P958S OUTSIDE AND ADJACENT TO WOODMONT SUBSTATION WILL REMAIN; HARDWARE AND INSULATORS WILL BE REPLACED.
- EXISTING STEEL STRUCTURES ACROSS THE TRACKS FROM THE WOODMONT SUBSTATION WILL BE REMOVED.
- ONE EXISTING STEEL POLE (P959AN) TO BE REMOVED.
- EXISTING WOOD POLES FROM P962N TO P963N TO BE REMOVED.
- PROJECT ACTIVITIES INCLUDE: VEGETATION CLEARING, REMOVAL OF EXISTING 115-kV EQUIPMENT, AND INSTALLATION OF ACCESS ROADS, WORK PADS, FOUNDATIONS, STEEL MONOPOLES, AND CONDUCTOR.
- EROSION AND SEDIMENT CONTROLS TO BE INSTALLED ON SITE UNDER THE SUPERVISION OF AN ENVIRONMENTAL INSPECTOR IN ACCORDANCE WITH CT DEEP GUIDELINES AND THE PROJECT SWPCP.
- EROSION AND SEDIMENT CONTROLS ARE SHOWN IN GENERAL LOCATIONS ON THE PLANS BUT MAY BE MODIFIED BASED ON SITE FIELD CONDITIONS.
- CONCRETE WASHOUTS ARE SHOWN IN GENERAL LOCATIONS AND ARE TO BE UTILIZED IN ACCORDANCE WITH CT DEEP EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- TEMPORARY ACCESS AND PADS WITH NO MATTING ARE ON EXISTING PAVEMENT OR GRAVEL. ACCESS ROUTES THROUGH PAVEMENT AND GRAVEL AREAS ARE SUBJECT TO CHANGE BASED ON ACCESS AGREEMENTS WITH LANDOWNER.
- NO STUMP REMOVAL, GRADING, MECHANIZED PUSHING, DRAGGING, TEMPORARY SIDE-CASTING OF EXCAVATED MATERIAL OR OTHER SIMILAR ACTIVITIES TO BE CONDUCTED IN WETLANDS UNLESS OTHERWISE DEPICTED.

#### CT DOT CORRIDOR/PROJECT WORK AREA DESCRIPTION

#### WETLANDS, WATERCOURSES, WATERWAYS AND SENSITIVE AREAS

- WETLAND M-W10
- WETLAND M-W11
- WATERCOURSE M-WC6
- WATERCOURSE M-WC7
- QUIRKS POND
- PORTION OF SHEET WITHIN NDDB AREA. COORDINATE WITH ENVIRONMENTAL INSPECTOR/SPECIES
   PROTECTION SPECIALIST REGARDING WORK IN NDDB AREAS

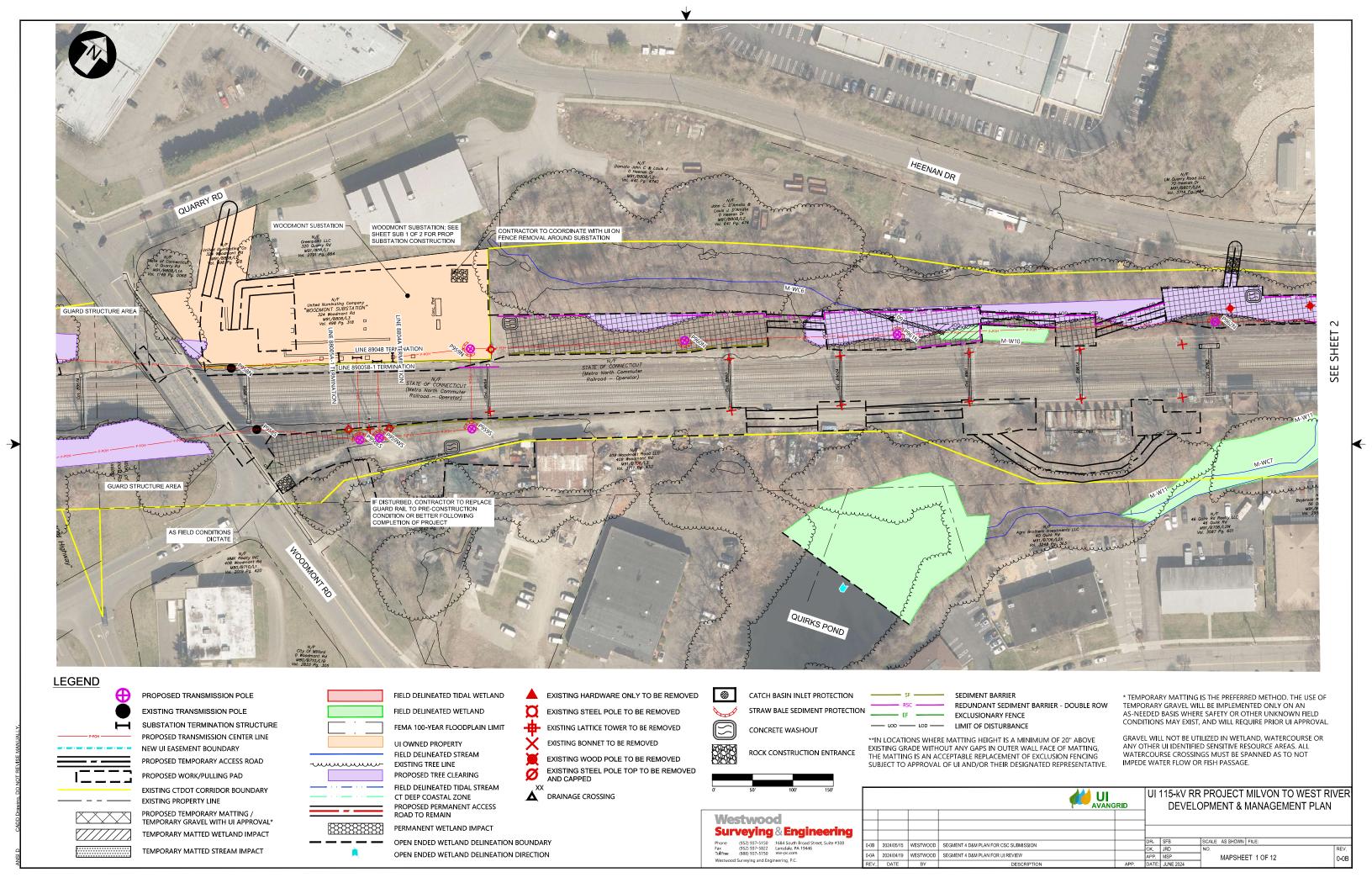
#### **ROAD CROSSINGS**

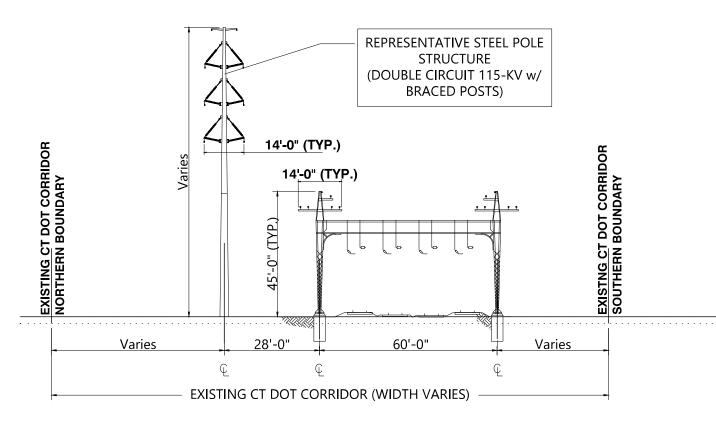
NONE

Drainage ID	Watercourse ID	Status	Crossing type/Culvert size	Closest Structure
09	M-WC6	Temporary	Mat bridge	P961N

## **DRAINAGE CROSSING TABLE**

					UI AVANG		UI			MILVON TO WEST RI MANAGEMENT PLAN	
Westwood Surveying & Engineering								MAPSHE	ET 1 STRU	CTURES AND NOTES	3
Phone (952) 937-5150 1684 South Broad Street, Suite #300	0-0B	2024/05/45	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION			DR.	SFB	SCALE AS SHOWN	FILE:	
Fax (952) 937-5822 Lansdale, PA 19446	0-08						CK.	JRD	NO.		REV.
Tol Free (888) 937-5150 ww-pc.com	0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW			APP.	MSP			0-0B
Westwood Surveying and Engineering, P.C.	REV.	DATE	BY	DESCRIPTION		APP.	DATE:	JUNE 2024			0 00





**XS-7 (FACING EAST)** 

STRUCTURE NO.	STRUCTURE TYPE	CROSS SECTION	HEIGHT (FT)	FOUNDATION
P963N	TANGENT	XS-7	117	CONCRETE DRILLED PIER
P964N	TANGENT	XS-7	106	CONCRETE DRILLED PIER
P965N	TANGENT	XS-7	112	CONCRETE DRILLED PIER

## STRUCTURE DETAIL TABLE

## **GENERAL NOTES**

#### **GENERAL WORK DESCRIPTION**

- NEW STEEL MONOPOLES P963N, P964N, AND P965N WILL BE INSTALLED.
- BONNETS B962AN/S, B963N/S, B963AN/S, B964N/S, B964AN/S, B965N/S, AND B965AN/S WILL BE REMOVED.
- EXISTING WOOD POLES FROM P962N TO P963N TO BE REMOVED, TWO WOOD POLES NEAR P964N TO BE REMOVED.
- PROJECT ACTIVITIES INCLUDE: VEGETATION CLEARING, REMOVAL OF EXISTING 115-kV EQUIPMENT, AND INSTALLATION OF ACCESS ROADS, WORK PADS, FOUNDATIONS, STEEL MONOPOLES, AND CONDUCTOR.
- EXCLUSIONARY FENCING TO BE COORDINATED WITH UI IN ACCORDANCE WITH THE SPECIES PROTECTION PLAN.
- EROSION AND SEDIMENT CONTROLS TO BE INSTALLED ON SITE UNDER THE SUPERVISION OF AN ENVIRONMENTAL INSPECTOR IN ACCORDANCE WITH CT DEEP GUIDELINES AND THE PROJECT SWPCP.
- EROSION AND SEDIMENT CONTROLS ARE SHOWN IN GENERAL LOCATIONS ON THE PLANS BUT MAY BE MODIFIED BASED ON SITE FIELD CONDITIONS.
- CONCRETE WASHOUTS ARE SHOWN IN GENERAL LOCATIONS AND ARE TO BE UTILIZED IN ACCORDANCE WITH CT DEEP EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- TEMPORARY ACCESS AND PADS WITH NO MATTING ARE ON EXISTING PAVEMENT OR GRAVEL. ACCESS ROUTES THROUGH PAVEMENT AND GRAVEL AREAS ARE SUBJECT TO CHANGE BASED ON ACCESS AGREEMENTS WITH LANDOWNER.
- NO STUMP REMOVAL, GRADING, MECHANIZED PUSHING, DRAGGING, TEMPORARY SIDE-CASTING OF EXCAVATED MATERIAL OR OTHER SIMILAR ACTIVITIES TO BE CONDUCTED IN WETLANDS UNLESS OTHERWISE DEPICTED.

#### CT DOT CORRIDOR/PROJECT WORK AREA DESCRIPTION

#### WETLANDS, WATERCOURSES, WATERWAYS AND SENSITIVE AREAS

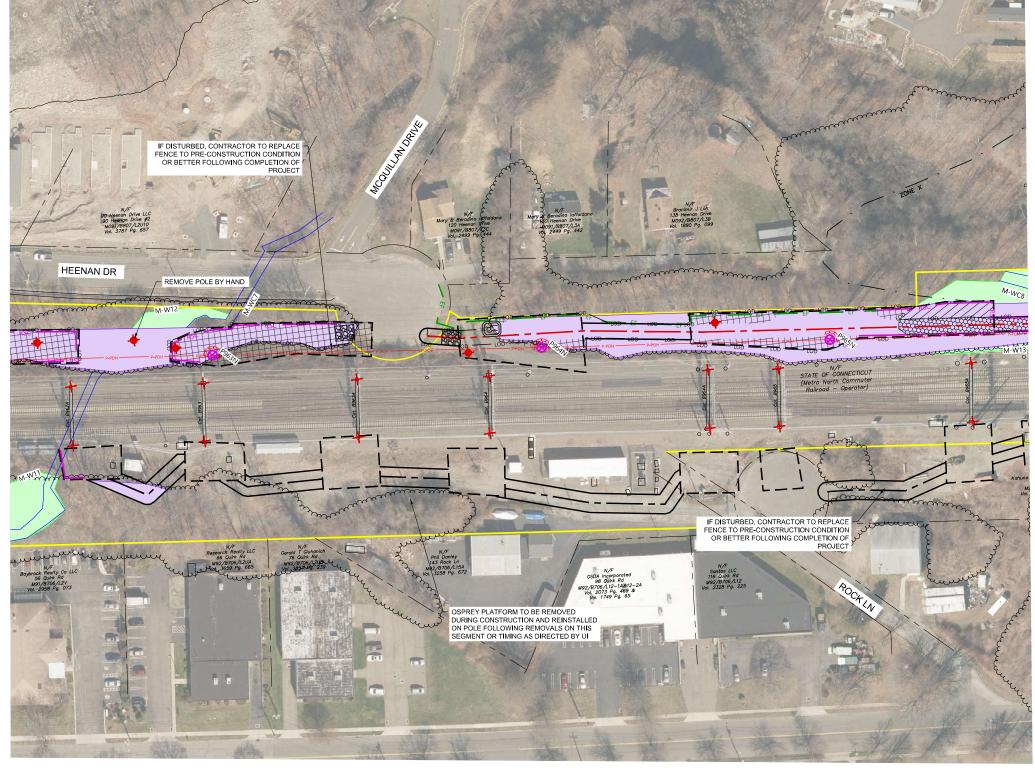
- WETLAND M-W11
- WETLAND M-W12
- WETLAND M-W13
- WATERCOURSE M-WC7
- WATERCOURSE M-WC8
- MAJORITY OF SHEET WITHIN NDDB AREA. COORDINATE WITH ENVIRONMENTAL INSPECTOR/SPECIES PROTECTION SPECIALIST REGARDING WORK IN NDDB AREAS
- PORTION OF SHEET CONTAINS FEMA MAPPED 100-YEAR FLOODPLAIN
- OSPREY NEST SOUTH OF EXISTING CATENARY STRUCTURE B963A, SEE MAPSHEET 2.

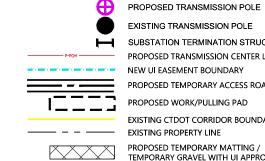
#### **ROAD CROSSINGS**

NONE

				•	UI AVANG				MILVON TO WEST RIN MANAGEMENT PLAN	/ER
Westwood Surveying & Engineering							MAPSHE	FT 2 STRUC	CTURES AND NOTES	
Phone (952) 937-5150 1684 South Broad Street, Suite #300								SCALE AS SHOWN F		_
Fax (952) 937-5822 Lansdale, PA 19446	0-0B	2024/05/15	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION			CK. JRD	NO.		REV.
Tol Free (888) 937-5150 ww-pc.com	0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW			APP. MSP	1		0-0B
Westwood Surveying and Engineering, P.C.	REV.	DATE	BY	DESCRIPTION		APP.	DATE: JUNE 2024	1		U UD







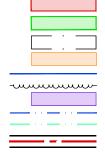
LEGEND

EXISTING TRANSMISSION POLE SUBSTATION TERMINATION STRUCTURE PROPOSED TRANSMISSION CENTER LINE **NEW UI EASEMENT BOUNDARY** PROPOSED TEMPORARY ACCESS ROAD PROPOSED WORK/PULLING PAD

**EXISTING CTDOT CORRIDOR BOUNDARY** EXISTING PROPERTY LINE

PROPOSED TEMPORARY MATTING / TEMPORARY GRAVEL WITH UI APPROVAL\* TEMPORARY MATTED WETLAND IMPACT

TEMPORARY MATTED STREAM IMPACT



SEE SHEET

FIELD DELINEATED TIDAL WETLAND FIELD DELINEATED WETLAND

FEMA 100-YEAR FLOODPLAIN LIMIT

UI OWNED PROPERTY FIELD DELINEATED STREAM EXISTING TREE LINE PROPOSED TREE CLEARING FIELD DELINEATED TIDAL STREAM CT DEEP COASTAL ZONE

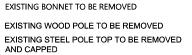
PROPOSED PERMANENT ACCESS ROAD TO REMAIN PERMANENT WETLAND IMPACT

OPEN ENDED WETLAND DELINEATION BOUNDARY OPEN ENDED WETLAND DELINEATION DIRECTION



EXISTING HARDWARE ONLY TO BE REMOVED ⊗





▲ DRAINAGE CROSSING



CATCH BASIN INLET PROTECTION



CONCRETE WASHOUT



\*\*IN LOCATIONS WHERE MATTING HEIGHT IS A MINIMUM OF 20" ABOVE EXISTING GRADE WITHOUT ANY GAPS IN OUTER WALL FACE OF MATTING, THE MATTING IS AN ACCEPTABLE REPLACEMENT OF EXCLUSION FENCING SUBJECT TO APPROVAL OF UI AND/OR THEIR DESIGNATED REPRESENTATIVE.

SEDIMENT BARRIER

EXCLUSIONARY FENCE

— LOD — LOD — LIMIT OF DISTURBANCE

\* TEMPORARY MATTING IS THE PREFERRED METHOD. THE USE OF TEMPORARY GRAVEL WILL BE IMPLEMENTED ONLY ON AN REDUNDANT SEDIMENT BARRIER - DOUBLE ROW AS-NEEDED BASIS WHERE SAFETY OR OTHER UNKNOWN FIELD CONDITIONS MAY EXIST, AND WILL REQUIRE PRIOR UI APPROVAL.

SHEET

GRAVEL WILL NOT BE UTILIZED IN WETLAND, WATERCOURSE OR ANY OTHER UI IDENTIFIED SENSITIVE RESOURCE AREAS. ALL WATERCOURSE CROSSINGS MUST BE SPANNED AS TO NOT

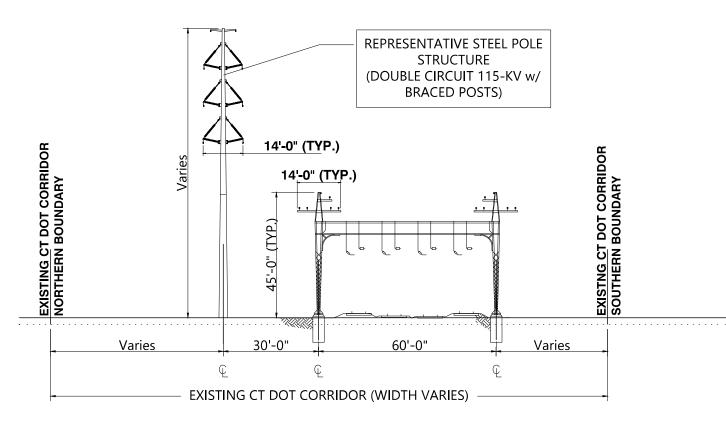


Westwood Surveying and Engineering, P.C

IMPEDE WATER FLOW OR FISH PASSAGE.

	stwoo veying	d & Engineering
Phone Fax Tol Free	(952) 937-5150 (952) 937-5822 (888) 937-5150	1684 South Broad Street, Suite #300 Lansdale, PA 19446 ww-pc.com

			WI AVAN	UI 115-kV RR PROJECT MILVON TO WEST RIVER DEVELOPMENT & MANAGEMENT PLAN					
						l orn	Look E. AO GLOWN LEVE		
0-1	B 2024/05/15	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION		DR. CK.	JRD JRD	SCALE AS SHOWN FILE: NO.	REV.	
0-1	A 2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW		APP.		MAPSHEET 2 OF 12	0-0B	
Б	V DATE	DV/	DECORIDATION	ADD	DATE	ILINE OCCA	1	1 2 2 2	



STRUCTURE NO.	STRUCTURE TYPE	CROSS SECTION	HEIGHT (FT)	FOUNDATION
P966AN	DEADEND	XS-7 116.5		CONCRETE DRILLED PIER
P968N	TANGENT	XS-7	117	CONCRETE DRILLED PIER
P969N	TANGENT	XS-7	112	CONCRETE DRILLED PIER
P970N	TANGENT	XS-7	101	CONCRETE DRILLED PIER

## STRUCTURE DETAIL TABLE

## **GENERAL NOTES**

#### **GENERAL WORK DESCRIPTION**

- NEW STEEL MONOPOLES P966AN, P968N, P969N AND P970N WILL BE INSTALLED.
- BONNETS B966N/S, B966AN/S, B967N/S, B969N/S, B969AN/S, B970N/S AND B970AN/S WILL BE REMOVED.
- THREE EXISTING WOOD POLES NEAR P966AN, 3 WOOD POLES NEAR P969N TO BE REMOVED.
- EXISTING STEEL POLE P968AN TO BE REMOVED.
- EXISTING STEEL POLE TOP AT EXISTING STRUCTURE P968AS TO BE REMOVED AND CAPPED.
- PROJECT ACTIVITIES INCLUDE: VEGETATION CLEARING, REMOVAL OF EXISTING 115-kV EQUIPMENT, AND INSTALLATION OF ACCESS ROADS, WORK PADS, FOUNDATIONS, STEEL MONOPOLES, AND CONDUCTOR.
- EXCLUSIONARY FENCING TO BE COORDINATED WITH UI IN ACCORDANCE WITH THE SPECIES PROTECTION PLAN.
- EROSION AND SEDIMENT CONTROLS TO BE INSTALLED ON SITE UNDER THE SUPERVISION OF AN ENVIRONMENTAL INSPECTOR IN ACCORDANCE WITH CT DEEP GUIDELINES AND THE PROJECT SWPCP.
- EROSION AND SEDIMENT CONTROLS ARE SHOWN IN GENERAL LOCATIONS ON THE PLANS BUT MAY BE MODIFIED BASED ON SITE FIELD CONDITIONS.
- CONCRETE WASHOUTS ARE SHOWN IN GENERAL LOCATIONS AND ARE TO BE UTILIZED IN ACCORDANCE WITH CT DEEP EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- TEMPORARY ACCESS AND PADS WITH NO MATTING ARE ON EXISTING PAVEMENT OR GRAVEL. ACCESS ROUTES THROUGH PAVEMENT AND GRAVEL AREAS ARE SUBJECT TO CHANGE BASED ON ACCESS AGREEMENTS WITH LANDOWNER.
- NO STUMP REMOVAL, GRADING, MECHANIZED PUSHING, DRAGGING, TEMPORARY SIDE-CASTING OF EXCAVATED MATERIAL OR OTHER SIMILAR ACTIVITIES TO BE CONDUCTED IN WETLANDS UNLESS OTHERWISE DEPICTED.

#### CT DOT CORRIDOR/PROJECT WORK AREA DESCRIPTION

#### WETLANDS, WATERCOURSES, WATERWAYS AND SENSITIVE AREAS

- WETLAND M-W13
- WETLAND M-W14
- WETLAND M-W15
- WATERCOURSE M-WC8
- ENTIRETY OF SHEET WITHIN NDDB AREA. COORDINATE WITH ENVIRONMENTAL INSPECTOR/SPECIES PROTECTION SPECIALIST REGARDING WORK IN NDDB AREAS
- PORTION OF SHEET CONTAINS FEMA MAPPED 100-YEAR FLOODPLAIN

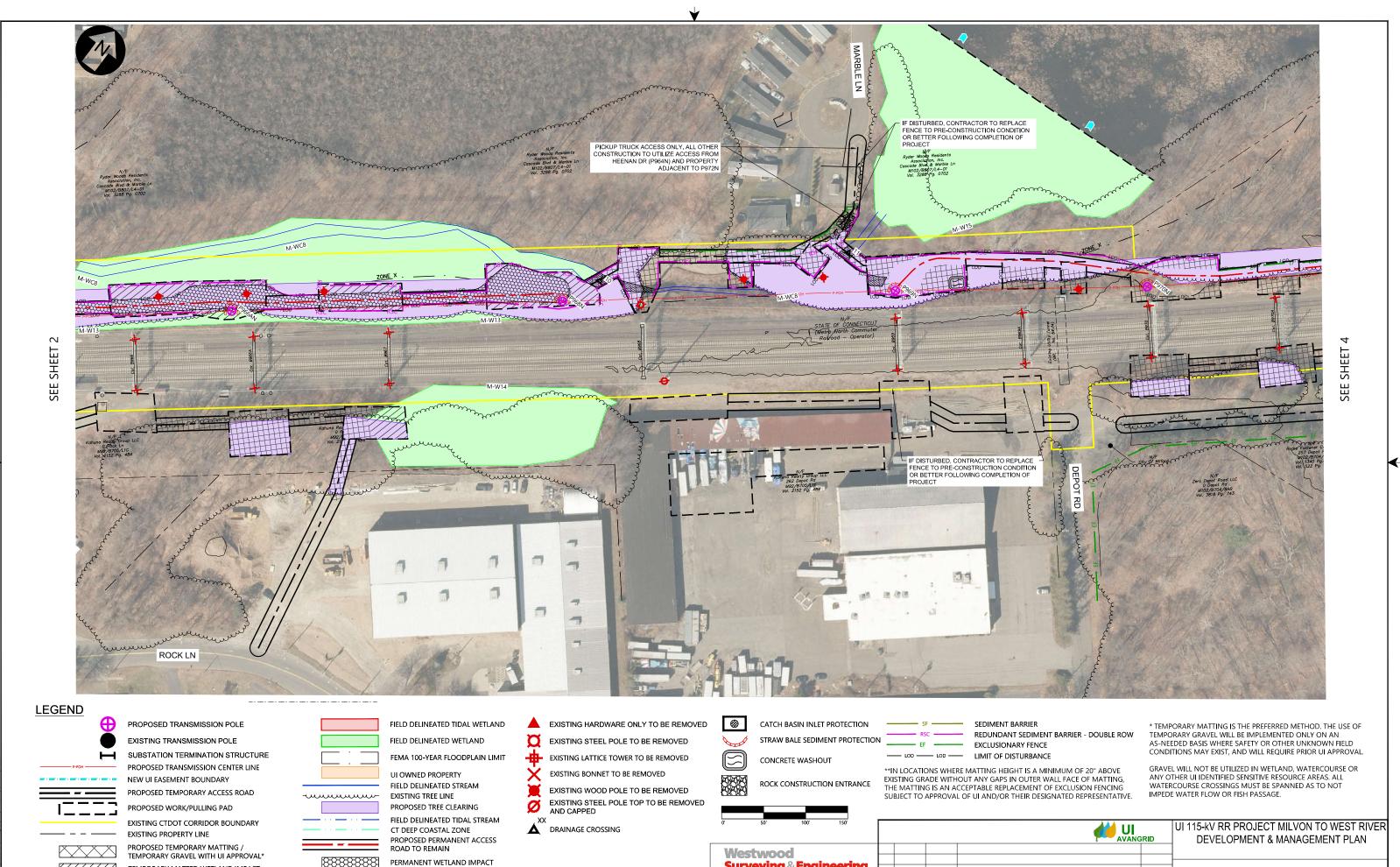
#### **ROAD CROSSINGS**

NONE

Drainage ID	Watercourse ID	Status	Crossing type/Culvert size	Closest Structure
10	M-WC8	Temporary	Culvert - size to channel dimensions	P968N
11	M-WC8	Temporary	Culvert - size to channel dimensions	P969N

## DRAINAGE CROSSING TABLE

					UI AVANG		UI ′		PROJECT MILVO PMENT & MANA		
Westwood								144 50115	ET A OTBUOTUB	EO AND NOTES	
Surveying & Engineering									<u>ET 3 STRUCTUR</u>	ES AND NOTES	
Phone (952) 937-5150 1684 South Broad Street, Suite #300	0-0B	2024/05/45	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION			DR.	SFB	SCALE AS SHOWN FILE:		
Fax (952) 937-5822 Lansdale, PA 19446	0-00						CK.	JRD	NO.		REV.
Tol Free (888) 937-5150 ww-pc.com	0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW			APP.	MSP			0-0B
Westwood Surveying and Engineering, P.C.	REV	DATE	BY	DESCRIPTION		APP	DATE:	JUNE 2024			0-00



Surveying & Engineering

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(952) 937-5150 1684 South Broad Street, Suite #300 (952) 937-5822 (888) 937-5150 ww-pc.com

0-0B | 2024/05/15 | WESTWOOD | SEGMENT 4 D&M PLAN FOR CSC SUBMISSION

MAPSHEET 3 OF 12

0-0A 2024/04/19 WESTWOOD SEGMENT 4 D&M PLAN FOR UI REVIEW

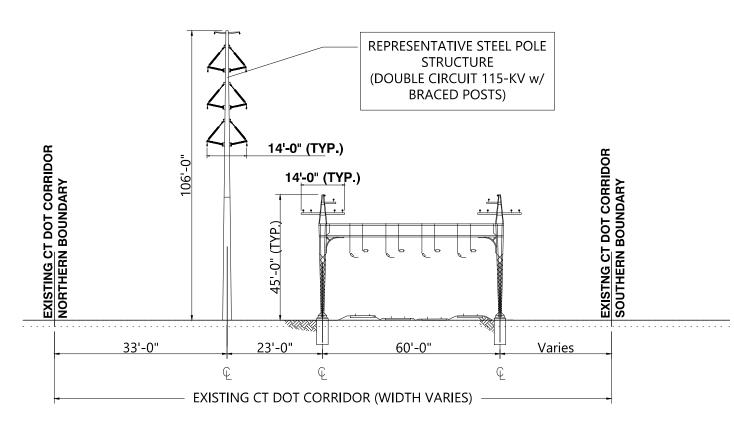
SID CADD Drawing, DO NOT REVISE MANUALI

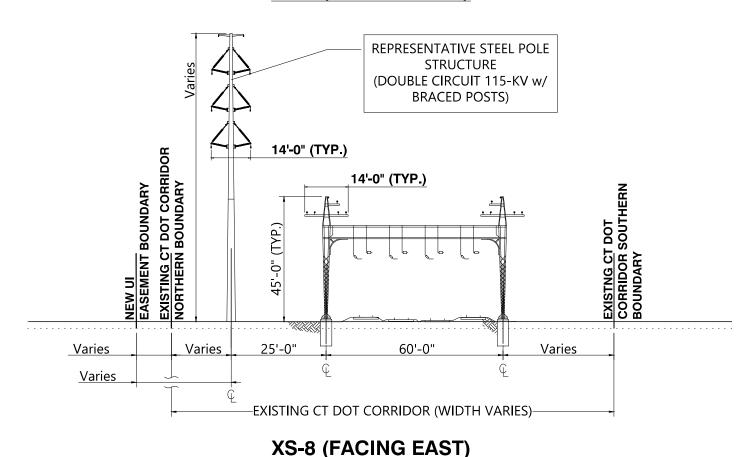
TEMPORARY MATTED WETLAND IMPACT

TEMPORARY MATTED STREAM IMPACT

OPEN ENDED WETLAND DELINEATION BOUNDARY

OPEN ENDED WETLAND DELINEATION DIRECTION





### **GENERAL NOTES**

#### **GENERAL WORK DESCRIPTION**

- NEW STEEL MONOPOLES P971N, P972N, P973NN, AND P974N WILL BE INSTALLED.
- BONNETS B971N/S, B971AN/S, B972N/S, B972AS, B973S, B974N/S, AND B975N/S WILL BE REMOVED.
- EXISTING STEEL POLE P973AN WILL REMAIN; HARDWARE AND INSULATORS WILL BE REPLACED.
- PROJECT ACTIVITIES INCLUDE: VEGETATION CLEARING, REMOVAL OF EXISTING 115-kV EQUIPMENT, AND INSTALLATION OF ACCESS ROADS, WORK PADS, FOUNDATIONS, STEEL MONOPOLES, AND CONDUCTOR.
- EXCLUSIONARY FENCING TO BE COORDINATED WITH UI IN ACCORDANCE WITH THE SPECIES PROTECTION PLAN.
- EROSION AND SEDIMENT CONTROLS TO BE INSTALLED ON SITE UNDER THE SUPERVISION OF AN ENVIRONMENTAL INSPECTOR IN ACCORDANCE WITH CT DEEP GUIDELINES AND THE PROJECT SWPCP.
- EROSION AND SEDIMENT CONTROLS ARE SHOWN IN GENERAL LOCATIONS ON THE PLANS BUT MAY BE MODIFIED BASED ON SITE FIELD CONDITIONS.
- CONCRETE WASHOUTS ARE SHOWN IN GENERAL LOCATIONS AND ARE TO BE UTILIZED IN ACCORDANCE WITH CT DEEP EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- TEMPORARY ACCESS AND PADS WITH NO MATTING ARE ON EXISTING PAVEMENT OR GRAVEL. ACCESS
  ROUTES THROUGH PAVEMENT AND GRAVEL AREAS ARE SUBJECT TO CHANGE BASED ON ACCESS
  AGREEMENTS WITH LANDOWNER.
- NO STUMP REMOVAL, GRADING, MECHANIZED PUSHING, DRAGGING, TEMPORARY SIDE-CASTING OF EXCAVATED MATERIAL OR OTHER SIMILAR ACTIVITIES TO BE CONDUCTED IN WETLANDS UNLESS OTHERWISE DEPICTED.

#### CT DOT CORRIDOR/PROJECT WORK AREA DESCRIPTION

#### WETLANDS, WATERCOURSES, WATERWAYS AND SENSITIVE AREAS

- WETLAND M-W16
- WETLAND M-W17
- WATERCOURSE M-WC9
- WATERCOURSE M-WC10
- MAJORITY OF SHEET WITHIN NDDB AREA. COORDINATE WITH ENVIRONMENTAL INSPECTOR/SPECIES PROTECTION SPECIALIST REGARDING WORK IN NDDB AREAS
- PORTION OF SHEET WITHIN CT DEEP COASTAL ZONE

#### **ROAD CROSSINGS**

NONE

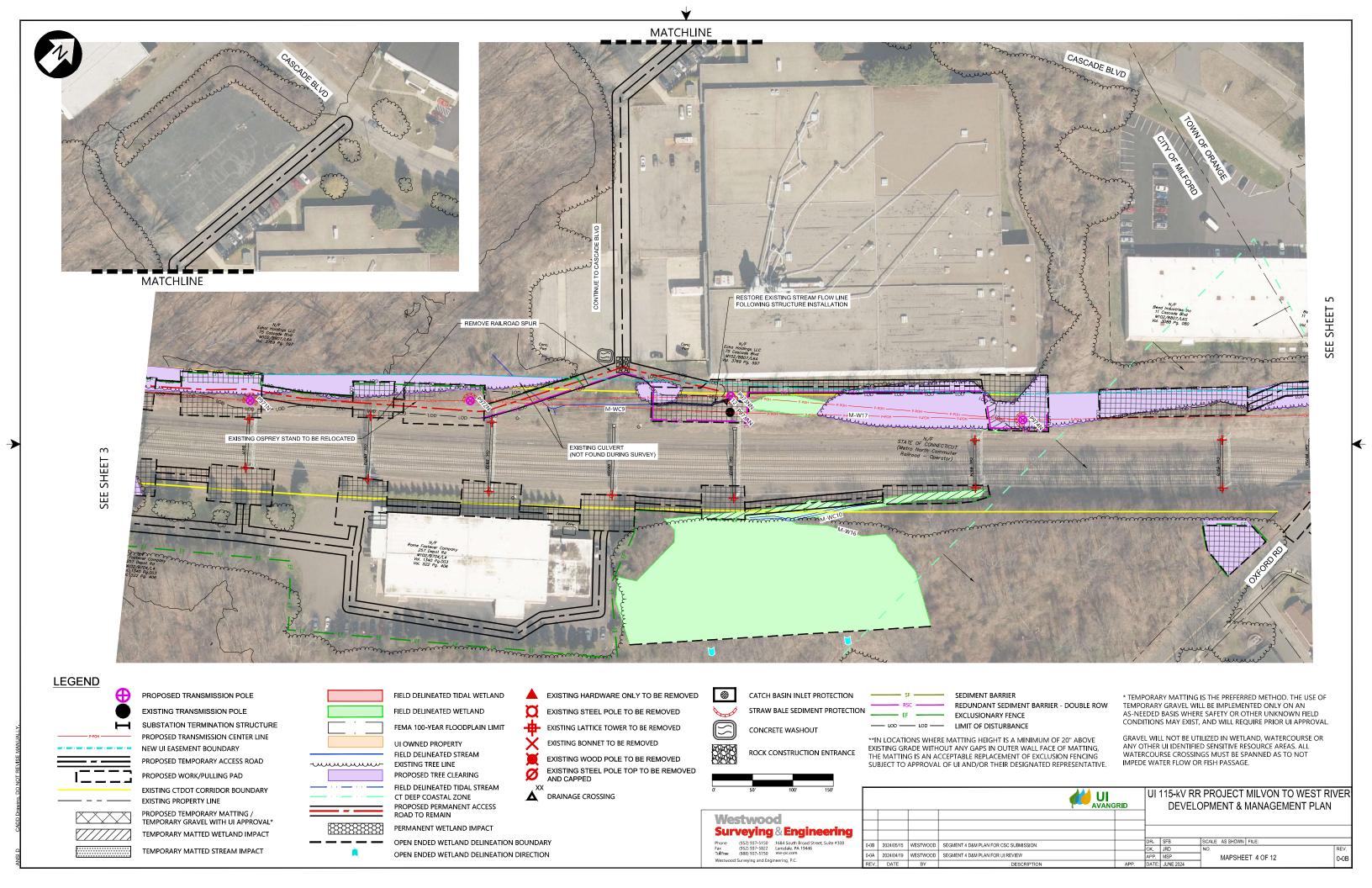
Drainage ID	e ID Watercourse ID Status		Crossing type/Culvert size	Closest Structure		
12	M-WC9	Temporary	Mat bridge	P973NN/AN		

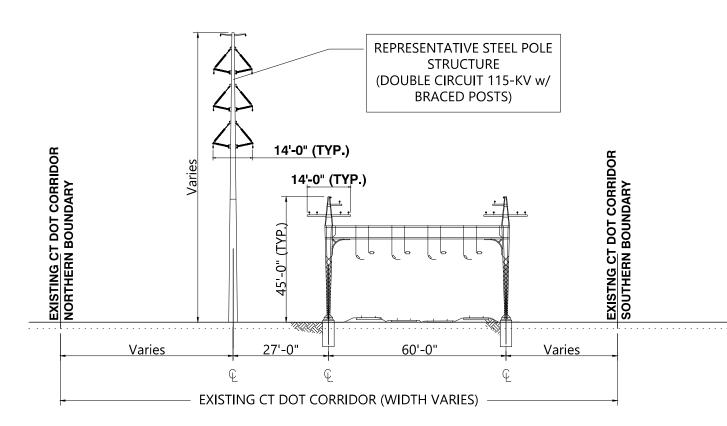
## DRAINAGE CROSSING TABLE

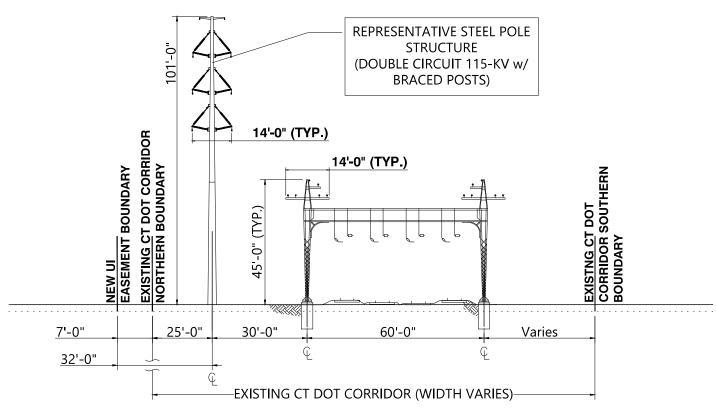
STRUCTURE NO.	STRUCTURE TYPE	CROSS SECTION	HEIGHT (FT)	FOUNDATION
P971N	TANGENT	XS-7	106	CONCRETE DRILLED PIER
P972N	TANGENT	XS-8	101	CONCRETE DRILLED PIER
P973NN	TANGENT	XS-8	96	CONCRETE DRILLED PIER
P974N	TANGENT	XS-8	106	CONCRETE DRILLED PIER

## STRUCTURE DETAIL TABLE

					UI AVANG		UI		PROJECT MILVON TO WEST R PPMENT & MANAGEMENT PLAN	
Westwood Surveying & Engineering								MAPSHE	ET 4 STRUCTURES AND NOTES	
Phone (952) 937-5150 1684 South Broad Street, Suite #300							DR.		SCALE AS SHOWN FILE:	_
Fax (952) 937-5822 Lansdale, PA 19446	0-0B	2024/05/15	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION			CK.	JRD	NO.	REV.
Tol Free (888) 937-5150 ww-pc.com	0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW			APP.	MSP		0-0B
Westwood Surveying and Engineering, P.C.		DATE	BY	DESCRIPTION		APP.	DATE:	JUNE 2024		1000







## XS-8 (FACING EAST)

## **GENERAL NOTES**

#### **GENERAL WORK DESCRIPTION**

- NEW STEEL MONOPOLES P975EN, P977N, P978N, P979N AND P980N WILL BE INSTALLED.
- BONNETS B975EN/S, B976WN/S, B976N/S, B977N/S, B978N/S, B979N/S AND B980N/S WILL BE REMOVED.
- BONNETS B975EN/S AND B976WN/S NEAR MARSH HILL ROAD SHALL BE ACCESSED AND REMOVED UTILIZING THE ROAD.
- PROJECT ACTIVITIES INCLUDE: VEGETATION CLEARING, REMOVAL OF EXISTING 115-kV EQUIPMENT, AND INSTALLATION OF ACCESS ROADS, WORK PADS, FOUNDATIONS, STEEL MONOPOLES, AND CONDUCTOR.
- EXCLUSIONARY FENCING TO BE COORDINATED WITH UI IN ACCORDANCE WITH THE SPECIES PROTECTION PLAN.
- EROSION AND SEDIMENT CONTROLS TO BE INSTALLED ON SITE UNDER THE SUPERVISION OF AN ENVIRONMENTAL INSPECTOR IN ACCORDANCE WITH CT DEEP GUIDELINES AND THE PROJECT SWPCP.
- EROSION AND SEDIMENT CONTROLS ARE SHOWN IN GENERAL LOCATIONS ON THE PLANS BUT MAY BE MODIFIED BASED ON SITE FIELD CONDITIONS.
- CONCRETE WASHOUTS ARE SHOWN IN GENERAL LOCATIONS AND ARE TO BE UTILIZED IN ACCORDANCE WITH CT DEEP EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- TEMPORARY ACCESS AND PADS WITH NO MATTING ARE ON EXISTING PAVEMENT OR GRAVEL. ACCESS ROUTES THROUGH PAVEMENT AND GRAVEL AREAS ARE SUBJECT TO CHANGE BASED ON ACCESS AGREEMENTS WITH LANDOWNER.
- NO STUMP REMOVAL, GRADING, MECHANIZED PUSHING, DRAGGING, TEMPORARY SIDE-CASTING OF EXCAVATED MATERIAL OR OTHER SIMILAR ACTIVITIES TO BE CONDUCTED IN WETLANDS UNLESS OTHERWISE DEPICTED.
- GUARD STRUCTURE WORK SPACES TO BE UTILIZED ON AN AS-NEEDED BASIS FOR WIRE PULLING ACTIVITIES. SCHEDULE AND WORK AREA PROTECTION TO BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH MUTCD GUIDELINES AND APPROPRIATELY COORDINATED WITH MUNICIPALITY AND CT DOT.

#### CT DOT CORRIDOR/PROJECT WORK AREA DESCRIPTION

WETLANDS, WATERCOURSES, WATERWAYS AND SENSITIVE AREAS

- WATERCOURSE O-WC1
- MAJORITY OF SHEET WITHIN NDDB AREA. COORDINATE WITH ENVIRONMENTAL INSPECTOR/SPECIES PROTECTION SPECIALIST REGARDING WORK IN NDDB AREAS
- PORTION OF SHEET WITHIN CT DEEP COASTAL ZONE

#### **ROAD CROSSINGS**

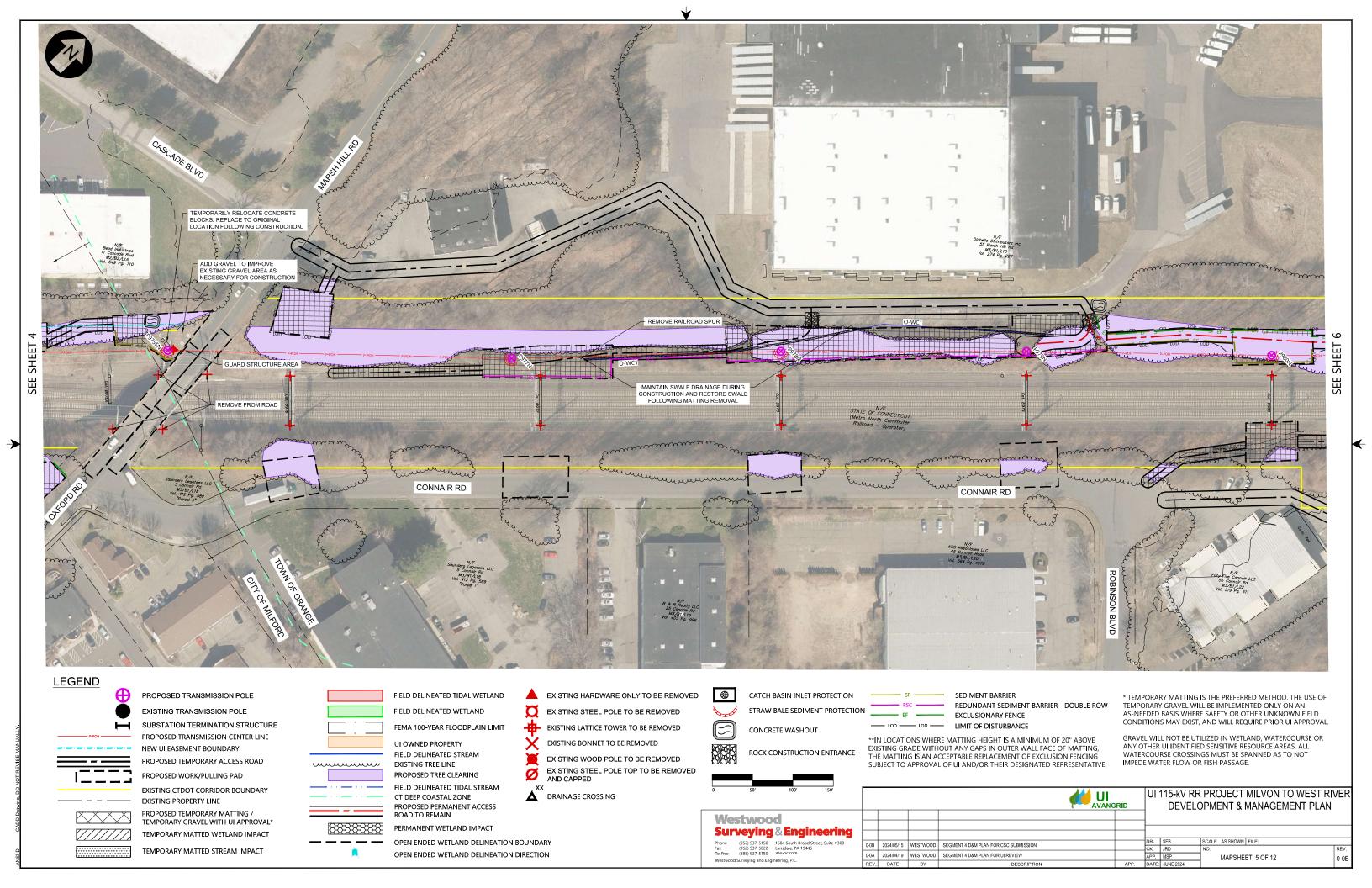
MARSH HILL RD

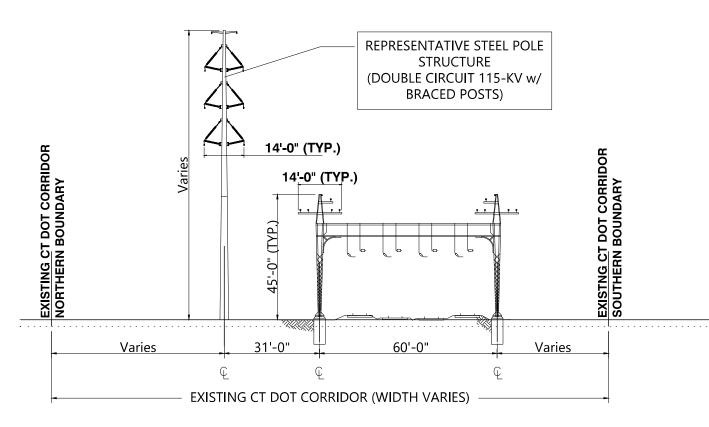
Westv Survey Phone (952) 9 Fax (952) 9 Tol Free (888) 9

STRUCTURE NO.	STRUCTURE TYPE	CROSS SECTION	HEIGHT (FT)	FOUNDATION
P975EN	TANGENT	XS-8	101	CONCRETE DRILLED PIER
P977N	TANGENT	XS-7	112	CONCRETE DRILLED PIER
P978N	TANGENT	XS-7	91	CONCRETE DRILLED PIER
P979N	TANGENT	XS-7	81	CONCRETE DRILLED PIER
P980N	TANGENT	XS-7	81	CONCRETE DRILLED PIER

## STRUCTURE DETAIL TABLE

					<b>W</b> UI		UI ′		PROJECT MILVON TO WEST		
wood					AVANG	עואי		DEVELO	DPMENT & MANAGEMENT PL	AIN	
eying & Engineering								MAPSHE	ET 5 STRUCTURES AND NOT	ES	
2) 937-5150 1684 South Broad Street, Suite #300 2) 937-5822 Lansdale, PA 19446	0-0B	2024/05/15	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION			DR. CK.	JRD JRD	SCALE AS SHOWN FILE:	REV.	
B) 937-5150 ww-pc.com eying and Engineering, P.C.	0-0A REV.	2024/04/19 DATE	WESTWOOD BY	SEGMENT 4 D&M PLAN FOR UI REVIEW  DESCRIPTION		APP.	-	MSP JUNE 2024		0-0B	





STRUCTURE NO.	STRUCTURE TYPE	CROSS SECTION	HEIGHT (FT)	FOUNDATION
P981N	TANGENT	XS-7	86	CONCRETE DRILLED PIER
P982N	TANGENT	XS-7	96	CONCRETE DRILLED PIER
P983N	TANGENT	XS-7	116.5	CONCRETE DRILLED PIER

## STRUCTURE DETAIL TABLE

## **GENERAL NOTES**

#### GENERAL WORK DESCRIPTION

- NEW STEEL MONOPOLES P981N, P982N AND P983N WILL BE INSTALLED.
- BONNETS B981N/S, B982N/S, B983N/S AND B984N/S WILL BE REMOVED.
- THREE EXISTING WOOD POLES AROUND P983N TO BE REMOVED
- PROJECT ACTIVITIES INCLUDE: VEGETATION CLEARING, REMOVAL OF EXISTING 115-kV EQUIPMENT, AND INSTALLATION OF ACCESS ROADS, WORK PADS, FOUNDATIONS, STEEL MONOPOLES, AND CONDUCTOR.
- EXCLUSIONARY FENCING TO BE COORDINATED WITH UI IN ACCORDANCE WITH THE SPECIES PROTECTION PLAN
- EROSION AND SEDIMENT CONTROLS TO BE INSTALLED ON SITE UNDER THE SUPERVISION OF AN ENVIRONMENTAL INSPECTOR IN ACCORDANCE WITH CT DEEP GUIDELINES AND THE PROJECT SWPCP.
- EROSION AND SEDIMENT CONTROLS ARE SHOWN IN GENERAL LOCATIONS ON THE PLANS BUT MAY BE MODIFIED BASED ON SITE FIELD CONDITIONS.
- CONCRETE WASHOUTS ARE SHOWN IN GENERAL LOCATIONS AND ARE TO BE UTILIZED IN ACCORDANCE WITH CT DEEP EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- TEMPORARY ACCESS AND PADS WITH NO MATTING ARE ON EXISTING PAVEMENT OR GRAVEL. ACCESS ROUTES THROUGH PAVEMENT AND GRAVEL AREAS ARE SUBJECT TO CHANGE BASED ON ACCESS AGREEMENTS WITH LANDOWNER.
- NO STUMP REMOVAL, GRADING, MECHANIZED PUSHING, DRAGGING, TEMPORARY SIDE-CASTING OF EXCAVATED MATERIAL OR OTHER SIMILAR ACTIVITIES TO BE CONDUCTED IN WETLANDS UNLESS OTHERWISE DEPICTED.

#### CT DOT CORRIDOR/PROJECT WORK AREA DESCRIPTION

#### WETLANDS, WATERCOURSES, WATERWAYS AND SENSITIVE AREAS

- WETLAND O-W1
- WETLAND O-W2
- WATERCOURSE O-WC2
- WATERCOURSE O-WC3
- WATERCOURSE WH-WC1
- PORTION OF SHEET WITHIN NDDB AREA. COORDINATE WITH ENVIRONMENTAL INSPECTOR/SPECIES
  PROTECTION SPECIALIST REGARDING WORK IN NDDB AREAS
- PORTION OF SHEET CONTAINS FEMA MAPPED 100-YEAR FLOODPLAIN

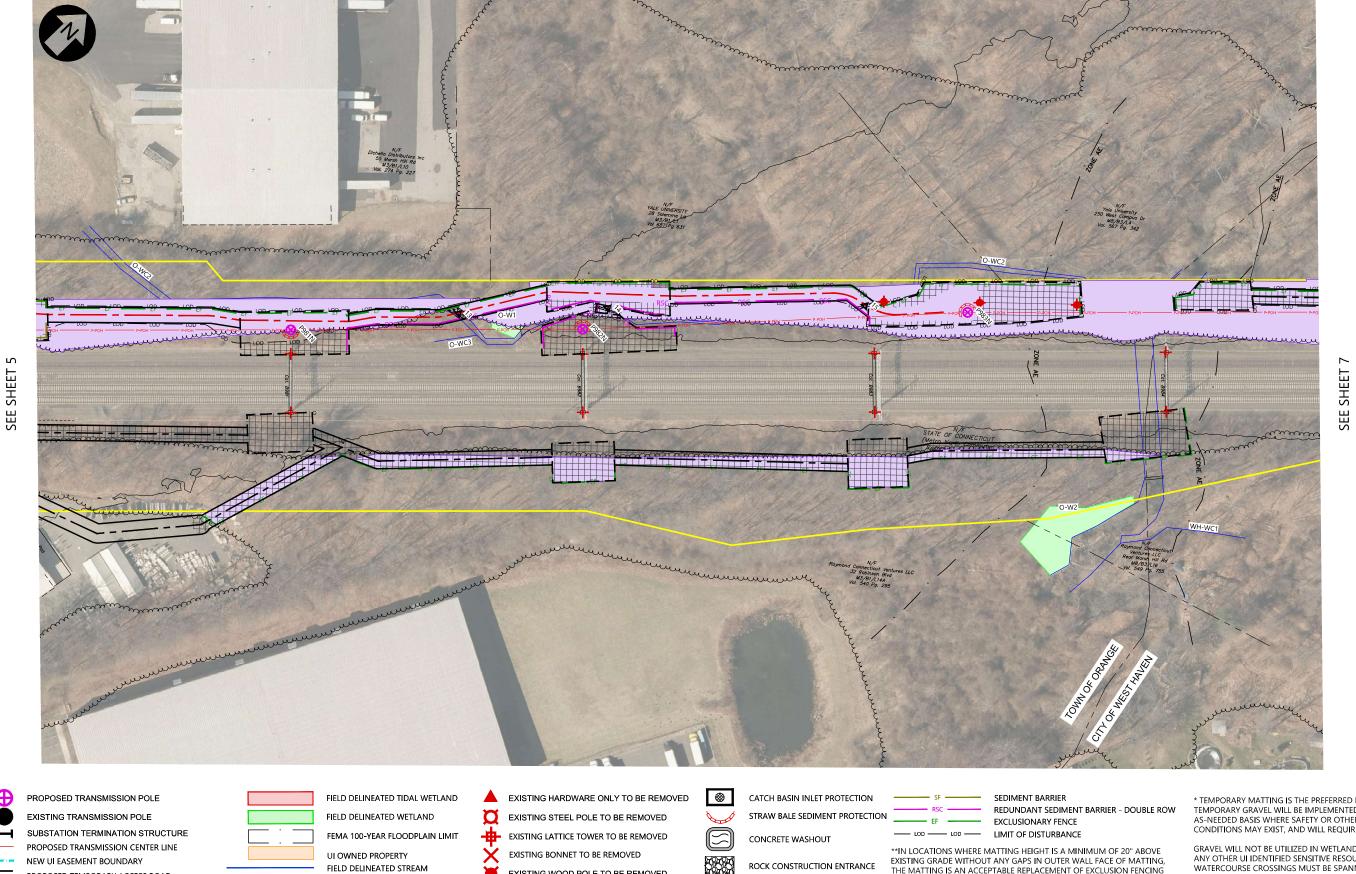
#### **ROAD CROSSINGS**

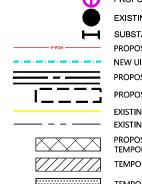
NONE

Drainage ID	Watercourse ID	ourse ID Status Crossing type/Culvert size			
13	O-WC2	Permanent	1-54"; 2-42"; 3-36	P982N	
14	O-WC2	Temporary	Culvert - size to channel dimensions	P982N	
15	O-WC2	Permanent	1-54"; 2-42"; 3-36"	B983N	

## **DRAINAGE CROSSING TABLE**

					UI AVANG		UI 115-kV RR PROJECT MILVON TO W DEVELOPMENT & MANAGEMEN			
Westwood Surveying & Engineering							MAPSHEET 6 STRUCTURES AND NOTES		ES	
Phone (952) 937-5150 1684 South Broad Street, Suite #300	0-0B	2024/05/45	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION			DR.		SCALE AS SHOWN FILE:	
Fax (952) 937-5822 Lansdale, PA 19446 Tol Free (888) 937-5150 ww-pc.com	0-08		WESTWOOD					JRD	NO.	REV.
Westwood Surveying and Engineering, P.C.	REV.	2024/04/19 DATE	BY	DESCRIPTION		APP.		MSP JUNE 2024	-	0-0B





LEGEND

PROPOSED TEMPORARY ACCESS ROAD

PROPOSED WORK/PULLING PAD

**EXISTING CTDOT CORRIDOR BOUNDARY** EXISTING PROPERTY LINE

PROPOSED TEMPORARY MATTING / TEMPORARY GRAVEL WITH UI APPROVAL\* TEMPORARY MATTED WETLAND IMPACT

TEMPORARY MATTED STREAM IMPACT

EXISTING TREE LINE PROPOSED TREE CLEARING FIELD DELINEATED TIDAL STREAM CT DEEP COASTAL ZONE PROPOSED PERMANENT ACCESS ROAD TO REMAIN

PERMANENT WETLAND IMPACT

OPEN ENDED WETLAND DELINEATION BOUNDARY OPEN ENDED WETLAND DELINEATION DIRECTION

EXISTING WOOD POLE TO BE REMOVED EXISTING STEEL POLE TOP TO BE REMOVED AND CAPPED

▲ DRAINAGE CROSSING



\* TEMPORARY MATTING IS THE PREFERRED METHOD. THE USE OF TEMPORARY GRAVEL WILL BE IMPLEMENTED ONLY ON AN AS-NEEDED BASIS WHERE SAFETY OR OTHER UNKNOWN FIELD CONDITIONS MAY EXIST, AND WILL REQUIRE PRIOR UI APPROVAL.

GRAVEL WILL NOT BE UTILIZED IN WETLAND, WATERCOURSE OR ANY OTHER UI IDENTIFIED SENSITIVE RESOURCE AREAS. ALL WATERCOURSE CROSSINGS MUST BE SPANNED AS TO NOT

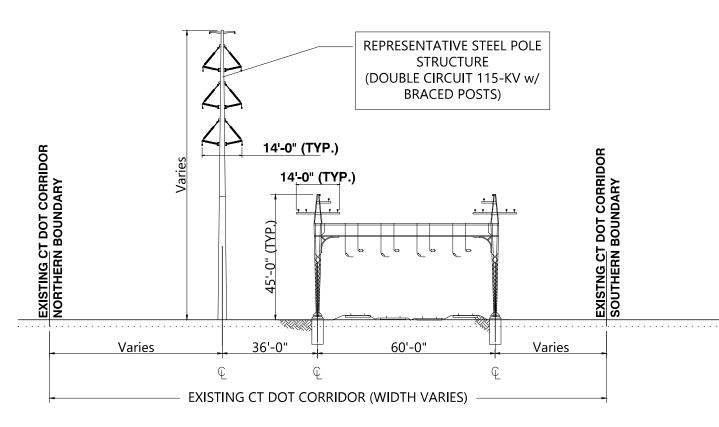


Westwood Surveying and Engineering, P.C.

EXISTING GRADE WITHOUT ANY GAPS IN OUTER WALL FACE OF MATTING, THE MATTING IS AN ACCEPTABLE REPLACEMENT OF EXCLUSION FENCING SUBJECT TO APPROVAL OF UI AND/OR THEIR DESIGNATED REPRESENTATIVE. IMPEDE WATER FLOW OR FISH PASSAGE.

Westwood Surveying & Engine	ering
Phone (952) 937-5150 1684 South Broad Street, 5 Fax (952) 937-5822 Lansdale, PA 19446 Tol Free (888) 937-5150 ww-pc.com	Suite #300

			+	WI AVANG	UI <sup>·</sup>				MILVON TO WEST RI MANAGEMENT PLAN	
0-0B	2024/05/45	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION		DR.	SFB	SCALE	AS SHOWN	FILE:	
0-00	2024/03/10	WESTWOOD	SEGMENT 4 DAM TEANTON COC SOCIMICOTON		CK.	JRD	NO.			REV.
0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW		APP.	MSP		MAPSHE	ET 6 OF 12	0-0B



STRUCTURE NO.	STRUCTURE TYPE	CROSS SECTION	HEIGHT (FT)	FOUNDATION
P985N	TANGENT	XS-7	106	CONCRETE DRILLED PIER
P986N	TANGENT	XS-7	91	CONCRETE DRILLED PIER
P987NN	TANGENT	XS-7	95	CONCRETE DRILLED PIER
P988N	TANGENT	XS-7	96	CONCRETE DRILLED PIER
P989N	TANGENT	XS-7	91	CONCRETE DRILLED PIER

## STRUCTURE DETAIL TABLE

## **GENERAL NOTES**

#### **GENERAL WORK DESCRIPTION**

- NEW STEEL MONOPOLES P985N, P986N, P987NN, P988N AND P989N WILL BE INSTALLED.
- BONNETS B985N/S, B986N/S, B987S, B988N/S AND B989N/S WILL BE REMOVED.
- EXISTING STEEL POLE P987AN WILL REMAIN; HARDWARE AND INSULATORS WILL BE REPLACED.
- PROJECT ACTIVITIES INCLUDE: VEGETATION CLEARING, REMOVAL OF EXISTING 115-kV EQUIPMENT, AND INSTALLATION OF ACCESS ROADS, WORK PADS, FOUNDATIONS, STEEL MONOPOLES, AND CONDUCTOR.
- EXCLUSIONARY FENCING TO BE COORDINATED WITH UI IN ACCORDANCE WITH THE SPECIES PROTECTION PLAN.
- EROSION AND SEDIMENT CONTROLS TO BE INSTALLED ON SITE UNDER THE SUPERVISION OF AN ENVIRONMENTAL INSPECTOR IN ACCORDANCE WITH CT DEEP GUIDELINES AND THE PROJECT SWPCP.
- EROSION AND SEDIMENT CONTROLS ARE SHOWN IN GENERAL LOCATIONS ON THE PLANS BUT MAY BE MODIFIED BASED ON SITE FIELD CONDITIONS.
- CONCRETE WASHOUTS ARE SHOWN IN GENERAL LOCATIONS AND ARE TO BE UTILIZED IN ACCORDANCE WITH CT DEEP EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- TEMPORARY ACCESS AND PADS WITH NO MATTING ARE ON EXISTING PAVEMENT OR GRAVEL. ACCESS ROUTES THROUGH PAVEMENT AND GRAVEL AREAS ARE SUBJECT TO CHANGE BASED ON ACCESS AGREEMENTS WITH LANDOWNER.
- NO STUMP REMOVAL, GRADING, MECHANIZED PUSHING, DRAGGING, TEMPORARY SIDE-CASTING OF EXCAVATED MATERIAL OR OTHER SIMILAR ACTIVITIES TO BE CONDUCTED IN WETLANDS UNLESS OTHERWISE DEPICTED.

#### CT DOT CORRIDOR/PROJECT WORK AREA DESCRIPTION

#### WETLANDS, WATERCOURSES, WATERWAYS AND SENSITIVE AREAS

- WETLAND WH-W1
- WATERCOURSE WH-WC2
- WATERCOURSE WH-WC3
- WATERCOURSE WH-WC4
- NO NDDB AREA WITHIN SHEET

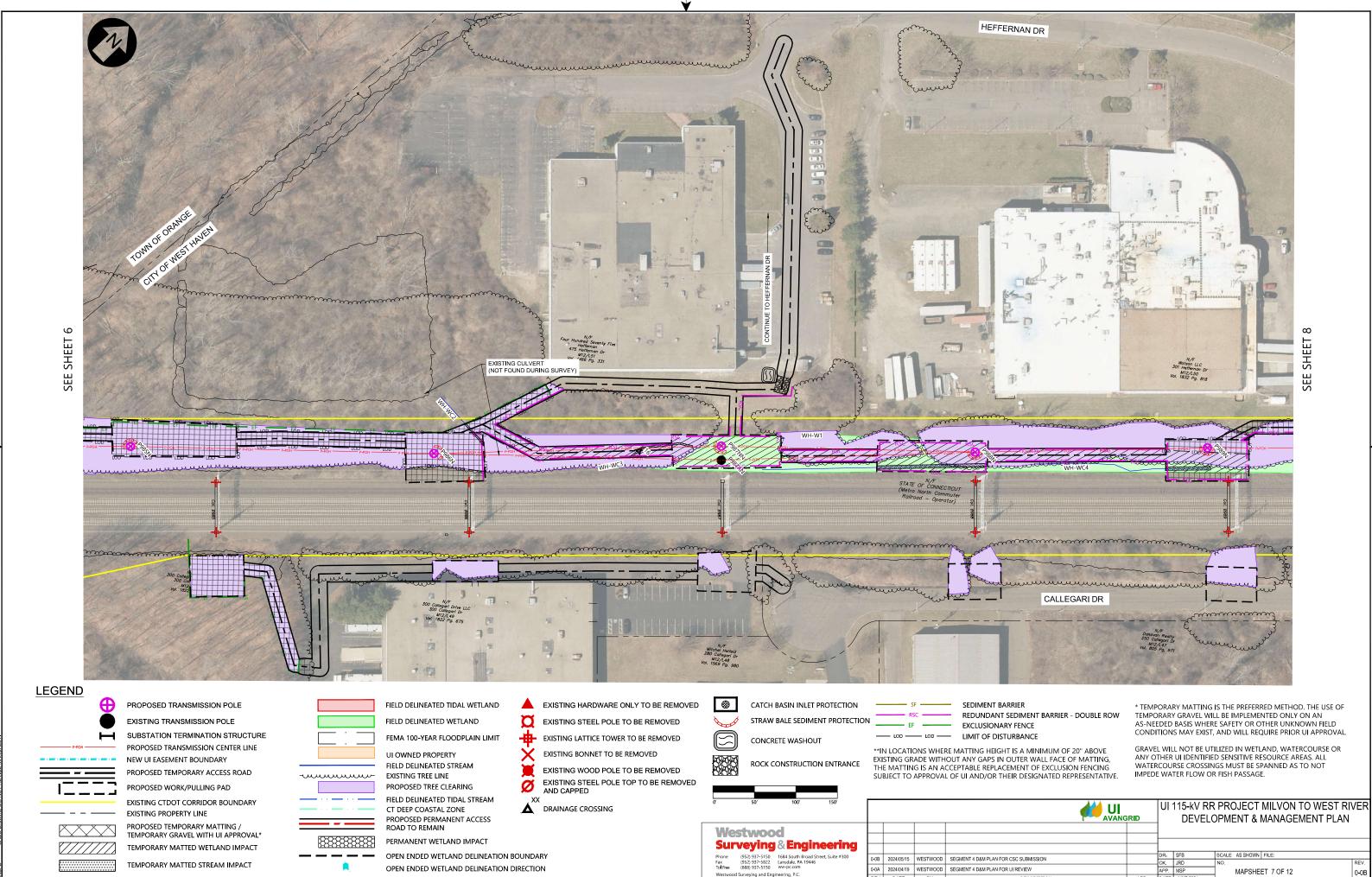
#### **ROAD CROSSINGS**

NONE

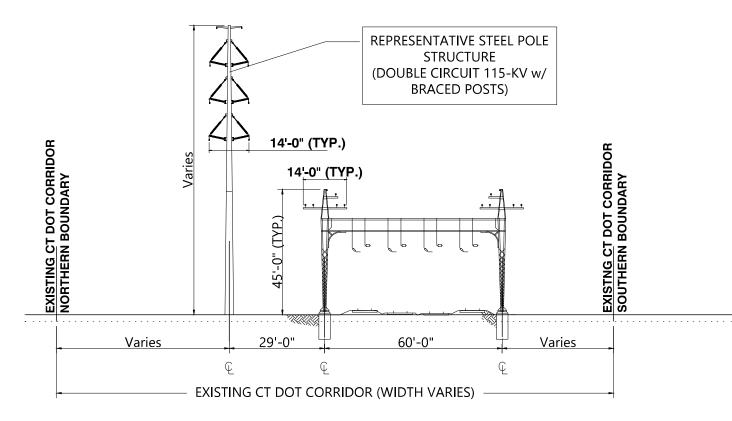
Drainage ID	Watercourse ID	Status	Crossing type/Culvert size	Closest Structure
16	WH-WC3	Temporary	Mat bridge	P987NN/AN

## **DRAINAGE CROSSING TABLE**

					UI AVANG		UI 1			VON TO WEST RINGEMENT PLAN	
Westwood Surveying & Engineering								MADQUE	ET 7 STDLICTI	JRES AND NOTES	
							DR.		SCALE AS SHOWN FILE:		<u>'</u>
Phone (952) 937-5150 1684 South Broad Street, Suite #300 Fax (952) 937-5822 Lansdale, PA 19446	0-0B	2024/05/15	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION			CK.	JRD	NO		REV.
Tol Free (888) 937-5150 ww-pc.com	0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW			APP.	MSP			0-0B
Westwood Surveying and Engineering, P.C.	REV.	DATE	BY	DESCRIPTION		APP.	DATE:	JUNE 2024			0 00



CADD Deswing DO NOT BEVISE MANILL



STRUCTURE NO.	STRUCTURE TYPE	CROSS SECTION	HEIGHT (FT)	FOUNDATION
P990N	TANGENT	XS-7	86	CONCRETE DRILLED PIER
P991N	DEADEND	XS-7	91	CONCRETE DRILLED PIER
P992N	TANGENT	XS-7	96.5	CONCRETE DRILLED PIER
P993N	TANGENT	XS-7	106	CONCRETE DRILLED PIER

## STRUCTURE DETAIL TABLE

## **GENERAL NOTES**

#### **GENERAL WORK DESCRIPTION**

- NEW STEEL MONOPOLES P990N, P991N, P992N AND P993N WILL BE INSTALLED.
- BONNETS B990N/S, B991N/S, B992N/S AND B993N/S WILL BE REMOVED.
- PROJECT ACTIVITIES INCLUDE: VEGETATION CLEARING, REMOVAL OF EXISTING 115-kV EQUIPMENT, AND INSTALLATION OF ACCESS ROADS, WORK PADS, FOUNDATIONS, STEEL MONOPOLES, AND CONDUCTOR.
- EROSION AND SEDIMENT CONTROLS TO BE INSTALLED ON SITE UNDER THE SUPERVISION OF AN ENVIRONMENTAL INSPECTOR IN ACCORDANCE WITH CT DEEP GUIDELINES AND THE PROJECT SWPCP.
- EROSION AND SEDIMENT CONTROLS ARE SHOWN IN GENERAL LOCATIONS ON THE PLANS BUT MAY BE MODIFIED BASED ON SITE FIELD CONDITIONS.
- CONCRETE WASHOUTS ARE SHOWN IN GENERAL LOCATIONS AND ARE TO BE UTILIZED IN ACCORDANCE WITH CT DEEP EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- TEMPORARY ACCESS AND PADS WITH NO MATTING ARE ON EXISTING PAVEMENT OR GRAVEL. ACCESS ROUTES THROUGH PAVEMENT AND GRAVEL AREAS ARE SUBJECT TO CHANGE BASED ON ACCESS AGREEMENTS WITH LANDOWNER.
- NO STUMP REMOVAL, GRADING, MECHANIZED PUSHING, DRAGGING, TEMPORARY SIDE-CASTING OF EXCAVATED MATERIAL OR OTHER SIMILAR ACTIVITIES TO BE CONDUCTED IN WETLANDS UNLESS OTHERWISE DEPICTED.

#### CT DOT CORRIDOR/PROJECT WORK AREA DESCRIPTION

WETLANDS, WATERCOURSES, WATERWAYS AND SENSITIVE AREAS

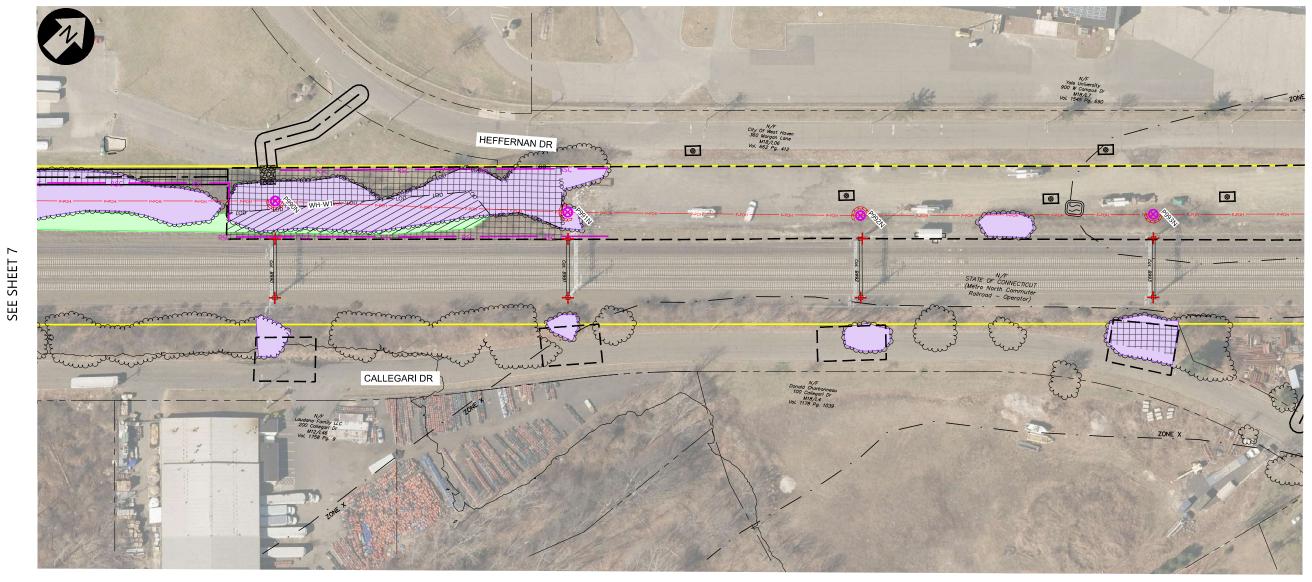
- WETLAND WH-W1
- NO NDDB AREA WITHIN SHEET
- PORTION OF SHEET CONTAINS FEMA MAPPED 100-YEAR FLOODPLAIN

#### ROAD CROSSINGS

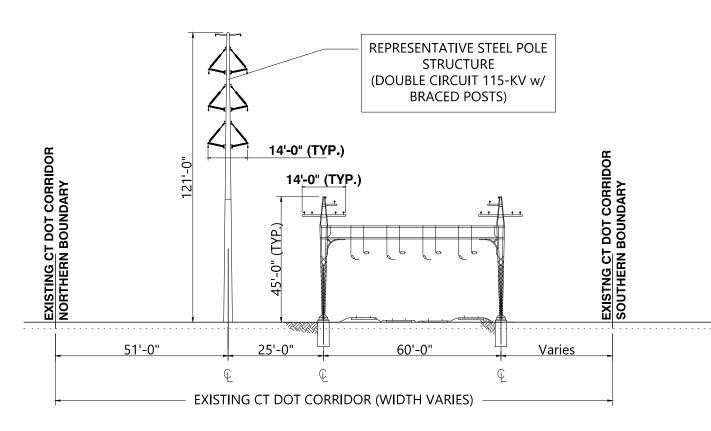
NONE

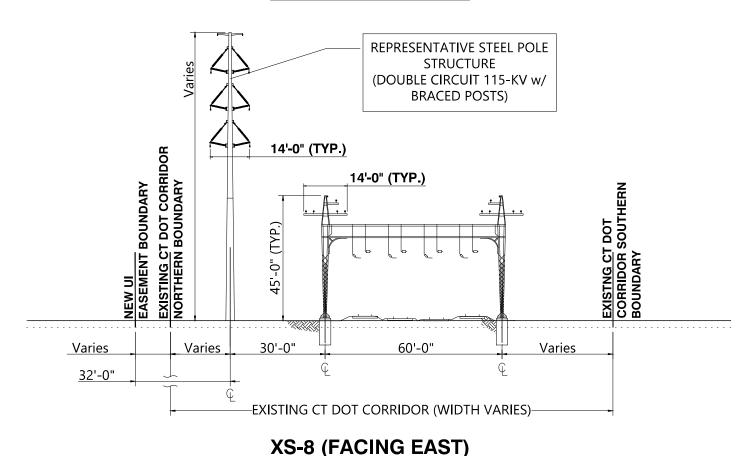
					UI AVANG	UI 115-kV RR PROJECT MILVON TO WEST RIV DEVELOPMENT & MANAGEMENT PLAN					
Westwood Surveying & Engineering								MADSHE	ET 8 STRII	CTURES AND NOTES	
Phone (952) 937-5150 1684 South Broad Street, Suite #300							DR.		SCALE AS SHOWN		—
Fax (952) 937-5822 Lansdale, PA 19446	0-0B		WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION			CK.	JRD	NO.		REV.
Tol Free (888) 937-5150 ww-pc.com Westwood Surveying and Engineering, P.C.	0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW			APP.	MSP			0-0B
westwood surveying and Engineering, F.C.	REV.	DATE	BY	DESCRIPTION		APP.	DATE	JUNE 2024			0.02











## **GENERAL NOTES**

#### GENERAL WORK DESCRIPTION

- NEW STEEL MONOPOLES P994N, P996N, P997N AND P998N WILL BE INSTALLED.
- BONNETS B994N/S, B995N/S, B996N/S, B997N/S AND B998N/S WILL BE REMOVED.
- EXISTING WOOD POLES FROM P997N TO P998N WILL BE REMOVED.
- PROJECT ACTIVITIES INCLUDE: VEGETATION CLEARING, REMOVAL OF EXISTING 115-kV EQUIPMENT, AND INSTALLATION OF ACCESS ROADS, WORK PADS, FOUNDATIONS, STEEL MONOPOLES, AND CONDUCTOR.
- EROSION AND SEDIMENT CONTROLS TO BE INSTALLED ON SITE UNDER THE SUPERVISION OF AN ENVIRONMENTAL INSPECTOR IN ACCORDANCE WITH CT DEEP GUIDELINES AND THE PROJECT SWPCP.
- EROSION AND SEDIMENT CONTROLS ARE SHOWN IN GENERAL LOCATIONS ON THE PLANS BUT MAY BE MODIFIED BASED ON SITE FIELD CONDITIONS.
- CONCRETE WASHOUTS ARE SHOWN IN GENERAL LOCATIONS AND ARE TO BE UTILIZED IN ACCORDANCE WITH CT DEEP EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- TEMPORARY ACCESS AND PADS WITH NO MATTING ARE ON EXISTING PAVEMENT OR GRAVEL. ACCESS ROUTES
  THROUGH PAVEMENT AND GRAVEL AREAS ARE SUBJECT TO CHANGE BASED ON ACCESS AGREEMENTS WITH
  LANDOWNER.
- NO STUMP REMOVAL, GRADING, MECHANIZED PUSHING, DRAGGING, TEMPORARY SIDE-CASTING OF EXCAVATED MATERIAL OR OTHER SIMILAR ACTIVITIES TO BE CONDUCTED IN WETLANDS UNLESS OTHERWISE DEPICTED.
- GUARD STRUCTURE WORK SPACES TO BE UTILIZED ON AN AS-NEEDED BASIS FOR WIRE PULLING ACTIVITIES.
   SCHEDULE AND WORK AREA PROTECTION TO BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH MUTCD GUIDELINES AND APPROPRIATELY COORDINATED WITH MUNICIPALITY AND CT DOT.

#### CT DOT CORRIDOR/PROJECT WORK AREA DESCRIPTION

#### WETLANDS, WATERCOURSES, WATERWAYS AND SENSITIVE AREAS

- WETLAND WH-W2
- WATERCOURSE WH-WC5
- WATERCOURSE WH-WC6
- WATERCOURSE WH-WC7
- NO NDDB AREA WITHIN SHEET
- PORTION OF SHEET CONTAINS FEMA MAPPED 100-YEAR FLOODPLAIN

#### **ROAD CROSSINGS**

MORGAN LN

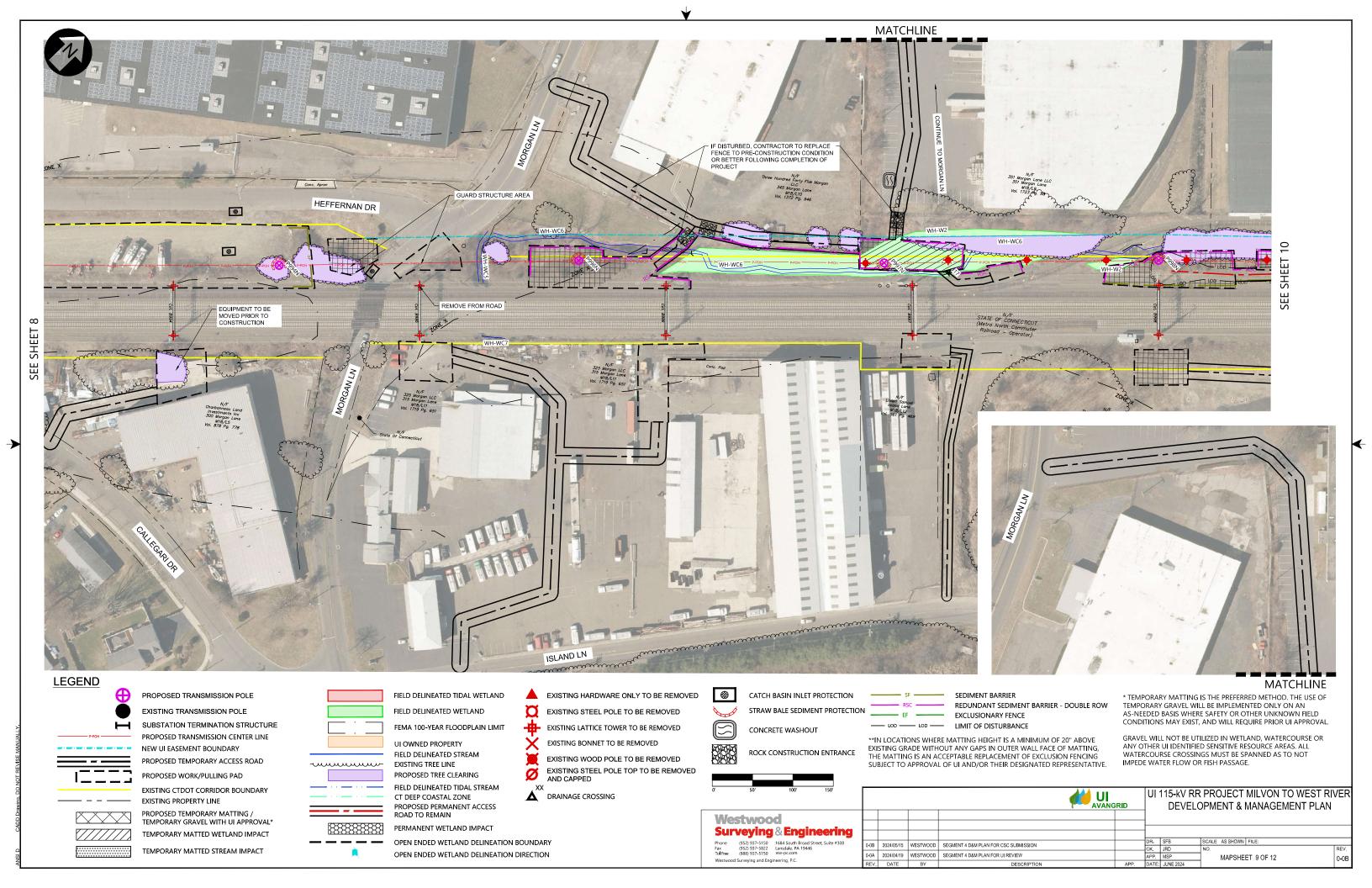
				1
STRUCTURE NO.	STRUCTURE TYPE	CROSS SECTION	HEIGHT (FT)	FOUNDATION
P994N	TANGENT	XS-7	121	CONCRETE DRILLED PIER
P996N	TANGENT	XS-8	111	CONCRETE DRILLED PIER
P997N	TANGENT	XS-8	101	CONCRETE DRILLED PIER
P998N	TANGENT	XS-8	91	CONCRETE DRILLED PIER

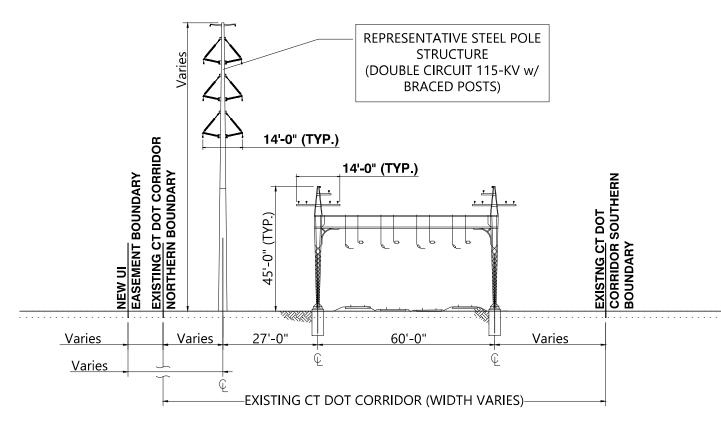
## STRUCTURE DETAIL TABLE

Drainage ID	Watercourse ID	Status	Crossing type/Culvert size	Closest Structure
17	WH-WC6	Temporary	Culvert - size to channel dimensions	P997N

## **DRAINAGE CROSSING TABLE**

					UI AVANG		UI 115-kV RR PROJECT MILVON TO WEST RIV DEVELOPMENT & MANAGEMENT PLAN			
Westwood Surveying & Engineering								MADSHE	ET 9 STRUCTURES AND NOTE	
							DD		SCALE AS SHOWN FILE:	
Phone (952) 937-5150 1684 South Broad Street, Suite #300 Fax (952) 937-5822 Lansdale, PA 19446	0-0B	2024/05/15	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION			CK.		NO	REV.
Tol Free (888) 937-5150 ww-pc.com	0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW			APP.	MSP		0-0B
Westwood Surveying and Engineering, P.C.	REV.	DATE	BY	DESCRIPTION		APP.	DATE:	JUNE 2024		0-06





**>** 

STRUCTURE NO.	STRUCTURE TYPE	CROSS SECTION	HEIGHT (FT)	FOUNDATION
P999N	TANGENT	XS-8	91	CONCRETE DRILLED PIER
P1000N	TANGENT	XS-8	91	CONCRETE DRILLED PIER
P1001N	TANGENT	XS-8	91	CONCRETE DRILLED PIER
P1002N	TANGENT	XS-8	91	CONCRETE DRILLED PIER

### STRUCTURE DETAIL TABLE

### **GENERAL NOTES**

#### **GENERAL WORK DESCRIPTION**

- NEW STEEL MONOPOLES P999N, P1000N, P1001N AND P1002N WILL BE INSTALLED.
- BONNETS B999N/S, B1000N/S, B1001N/S AND B1002N/S WILL BE REMOVED.
- EXISTING WOOD POLES ON THE NORTH SIDE OF THE RAILROAD TRACKS TO BE REMOVED.
- PROJECT ACTIVITIES INCLUDE: VEGETATION CLEARING, REMOVAL OF EXISTING 115-kV EQUIPMENT, AND INSTALLATION OF ACCESS ROADS, WORK PADS, FOUNDATIONS, STEEL MONOPOLES, AND CONDUCTOR.
- EROSION AND SEDIMENT CONTROLS TO BE INSTALLED ON SITE UNDER THE SUPERVISION OF AN ENVIRONMENTAL INSPECTOR IN ACCORDANCE WITH CT DEEP GUIDELINES AND THE PROJECT SWPCP.
- EROSION AND SEDIMENT CONTROLS ARE SHOWN IN GENERAL LOCATIONS ON THE PLANS BUT MAY BE MODIFIED BASED ON SITE FIELD CONDITIONS.
- CONCRETE WASHOUTS ARE SHOWN IN GENERAL LOCATIONS AND ARE TO BE UTILIZED IN ACCORDANCE WITH CT DEEP EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- TEMPORARY ACCESS AND PADS WITH NO MATTING ARE ON EXISTING PAVEMENT OR GRAVEL. ACCESS ROUTES THROUGH PAVEMENT AND GRAVEL AREAS ARE SUBJECT TO CHANGE BASED ON ACCESS AGREEMENTS WITH LANDOWNER.
- NO STUMP REMOVAL, GRADING, MECHANIZED PUSHING, DRAGGING, TEMPORARY SIDE-CASTING OF EXCAVATED MATERIAL OR OTHER SIMILAR ACTIVITIES TO BE CONDUCTED IN WETLANDS UNLESS OTHERWISE DEPICTED.

#### CT DOT CORRIDOR/PROJECT WORK AREA DESCRIPTION

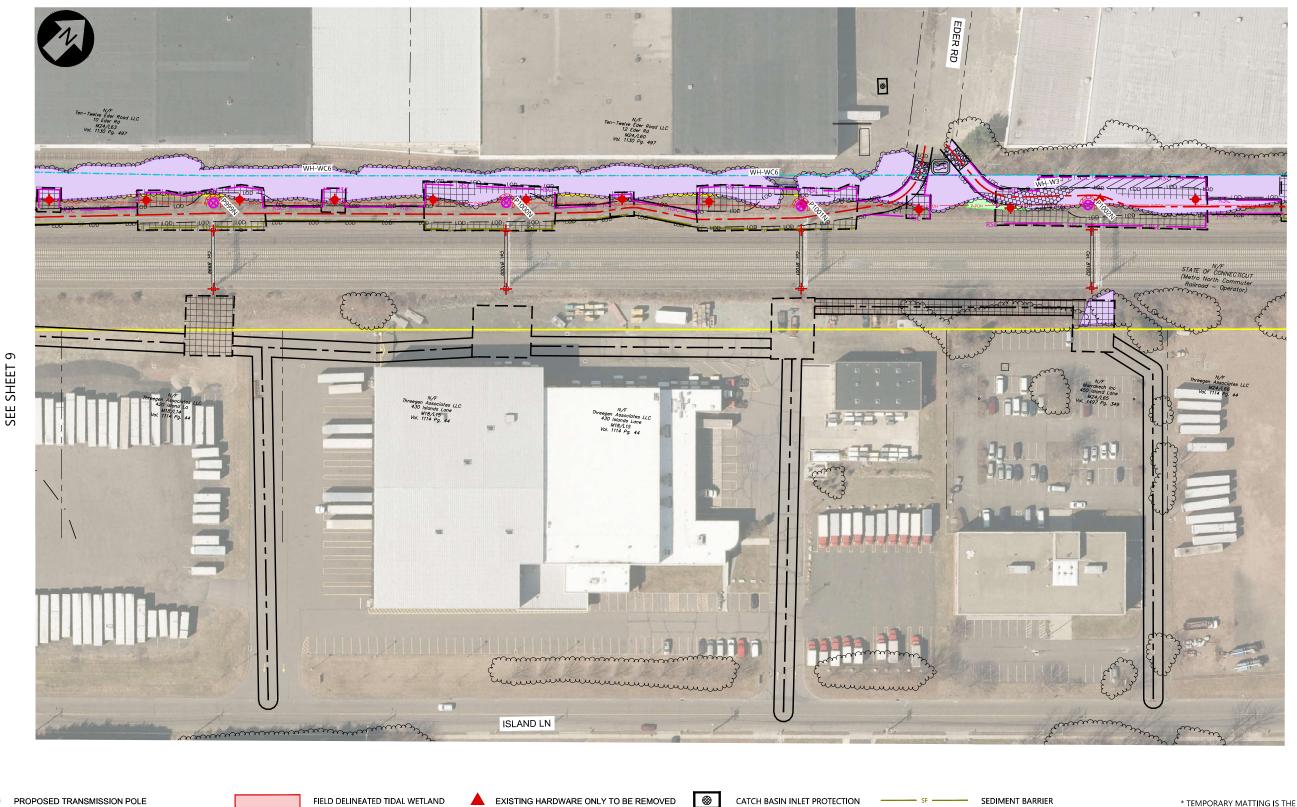
#### WETLANDS, WATERCOURSES, WATERWAYS AND SENSITIVE AREAS

- WETLAND WH-W3
- WATERCOURSE WH-WC6
- NO NDDB AREA WITHIN SHEET
- PORTION OF SHEET CONTAINS FEMA MAPPED 100-YEAR FLOODPLAIN

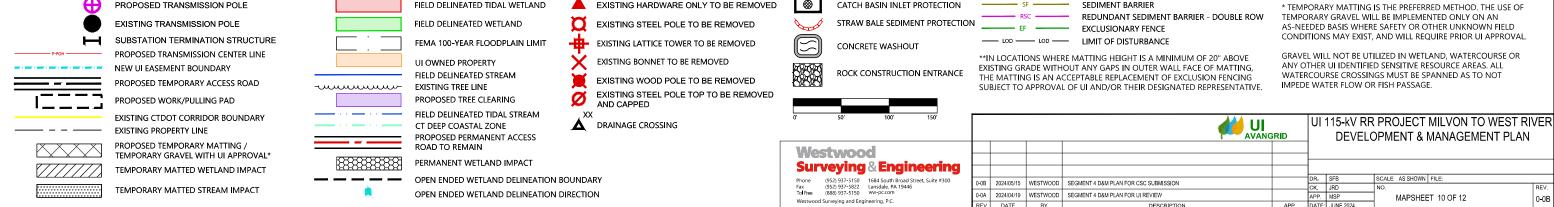
#### **ROAD CROSSINGS**

NONE

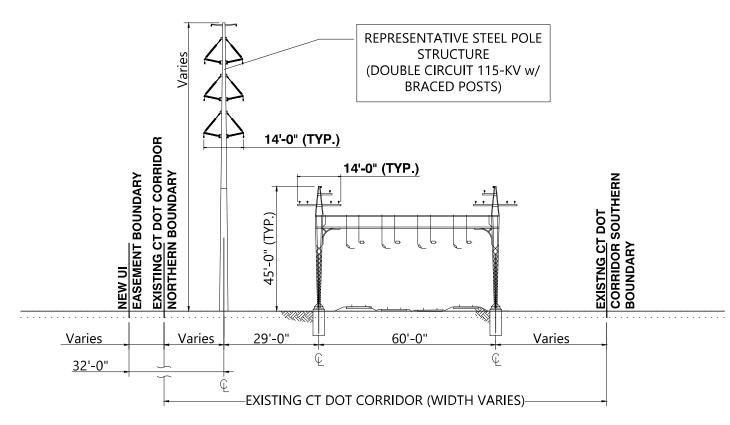
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Westwood										
Surveying & Engineering									ET 10 STRUCTURES AND NOTES	S
Phone (952) 937-5150 1684 South Broad Street, Suite #300 Fax (952) 937-5822 Lansdale, PA 19446	0-0B	2024/05/15	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION				JRD	SCALE AS SHOWN FILE:	REV.
Tol Free (888) 937-5150 ww-pc.com	0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW				MSP		0-0B
Westwood Surveying and Engineering, P.C.	DEV/	DATE	RY	DESCRIPTION		ΔPP	DATE:	ILINE 2024		0 00



SEE SHEET



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STRUCTURE NO.	STRUCTURE TYPE	CROSS SECTION	HEIGHT (FT)	FOUNDATION
P1003N	TANGENT	XS-8	91	CONCRETE DRILLED PIER
P1004N	TANGENT	XS-8	81	CONCRETE DRILLED PIER
P1005N	TANGENT	XS-8	76	CONCRETE DRILLED PIER
P1006N	DEADEND	XS-8	86.5	CONCRETE DRILLED PIER

## STRUCTURE DETAIL TABLE

## **GENERAL NOTES**

#### **GENERAL WORK DESCRIPTION**

- NEW STEEL MONOPOLES P1003N, P1004N, P1005N AND P1006N WILL BE INSTALLED.
- BONNETS B1003N/S, B1004N/S, B1005N/S AND B1006N/S WILL BE REMOVED.
- EXISTING WOOD POLES ON THE NORTH SIDE OF THE RAILROAD TRACKS TO BE REMOVED.
- PROJECT ACTIVITIES INCLUDE: VEGETATION CLEARING, REMOVAL OF EXISTING 115-kV EQUIPMENT, AND INSTALLATION OF ACCESS ROADS, WORK PADS, FOUNDATIONS, STEEL MONOPOLES, AND CONDUCTOR.
- EROSION AND SEDIMENT CONTROLS TO BE INSTALLED ON SITE UNDER THE SUPERVISION OF AN ENVIRONMENTAL INSPECTOR IN ACCORDANCE WITH CT DEEP GUIDELINES AND THE PROJECT SWPCP.
- EROSION AND SEDIMENT CONTROLS ARE SHOWN IN GENERAL LOCATIONS ON THE PLANS BUT MAY BE MODIFIED BASED ON SITE FIELD CONDITIONS.
- CONCRETE WASHOUTS ARE SHOWN IN GENERAL LOCATIONS AND ARE TO BE UTILIZED IN ACCORDANCE WITH CT DEEP EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- TEMPORARY ACCESS AND PADS WITH NO MATTING ARE ON EXISTING PAVEMENT OR GRAVEL. ACCESS ROUTES THROUGH PAVEMENT AND GRAVEL AREAS ARE SUBJECT TO CHANGE BASED ON ACCESS AGREEMENTS WITH LANDOWNER.
- NO STUMP REMOVAL, GRADING, MECHANIZED PUSHING, DRAGGING, TEMPORARY SIDE-CASTING OF EXCAVATED MATERIAL OR OTHER SIMILAR ACTIVITIES TO BE CONDUCTED IN WETLANDS UNLESS OTHERWISE DEPICTED.

#### CT DOT CORRIDOR/PROJECT WORK AREA DESCRIPTION

WETLANDS, WATERCOURSES, WATERWAYS AND SENSITIVE AREAS

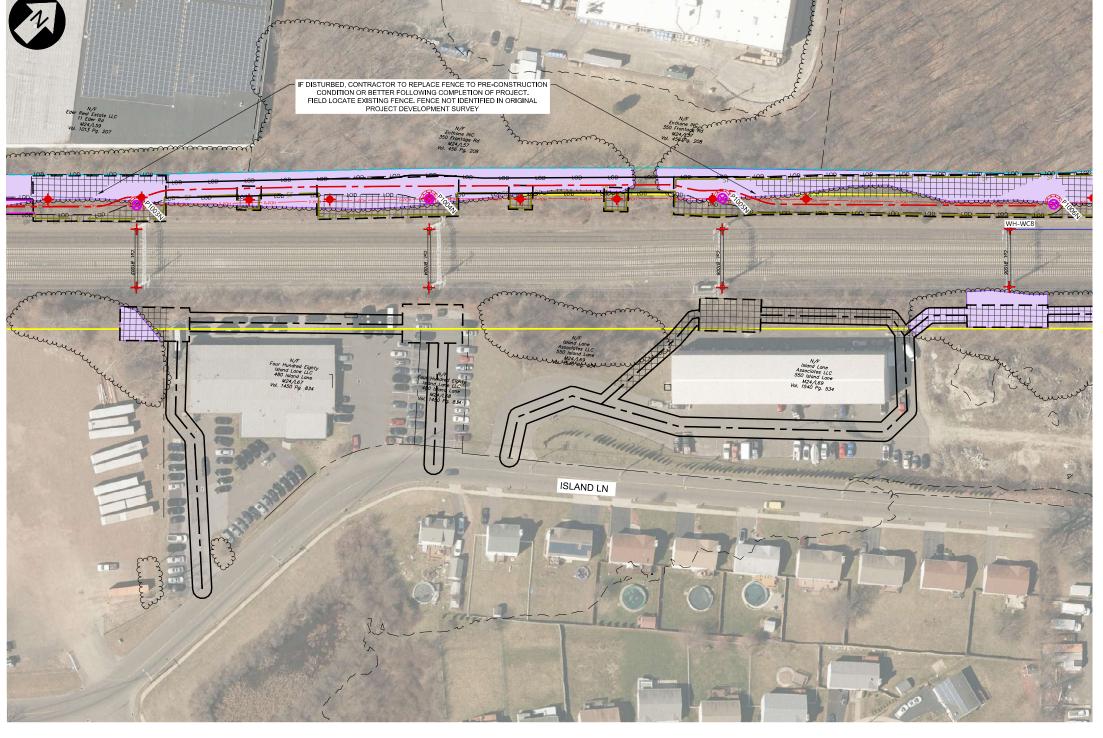
- WATERCOURSE WH-WC8
- NO NDDB AREA WITHIN SHEET

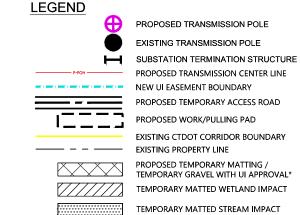
#### **ROAD CROSSINGS**

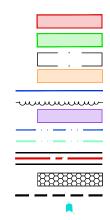
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Westwood										
Surveying & Engineering							MAPSHE	ET 11 STRU	CTURES AND NOTES	S
Phone (952) 937-5150 1684 South Broad Street, Suite #300 Fax (952) 937-5822 Lansdale, PA 19446	0-0B	2024/05/15	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION		DR.	SFB JRD	SCALE AS SHOWN F	FILE:	REV.
Tol Free (888) 937-5150 ww-pc.com Westwood Surveying and Engineering, P.C.	0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW		APP.	MSP			0-0B

SEE SHEET







FIELD DELINEATED TIDAL WETLAND FIELD DELINEATED WETLAND

FEMA 100-YEAR FLOODPLAIN LIMIT

UI OWNED PROPERTY FIELD DELINEATED STREAM EXISTING TREE LINE PROPOSED TREE CLEARING FIELD DELINEATED TIDAL STREAM CT DEEP COASTAL ZONE

PROPOSED PERMANENT ACCESS ROAD TO REMAIN PERMANENT WETLAND IMPACT

OPEN ENDED WETLAND DELINEATION BOUNDARY OPEN ENDED WETLAND DELINEATION DIRECTION

EXISTING HARDWARE ONLY TO BE REMOVED

EXISTING STEEL POLE TO BE REMOVED EXISTING LATTICE TOWER TO BE REMOVED

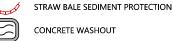
EXISTING BONNET TO BE REMOVED

EXISTING WOOD POLE TO BE REMOVED EXISTING STEEL POLE TOP TO BE REMOVED AND CAPPED

▲ DRAINAGE CROSSING



CATCH BASIN INLET PROTECTION



CONCRETE WASHOUT



ROCK CONSTRUCTION ENTRANCE



REDUNDANT SEDIMENT BARRIER - DOUBLE ROW — EF — EXCLUSIONARY FENCE

\*\*IN LOCATIONS WHERE MATTING HEIGHT IS A MINIMUM OF 20" ABOVE EXISTING GRADE WITHOUT ANY GAPS IN OUTER WALL FACE OF MATTING, THE MATTING IS AN ACCEPTABLE REPLACEMENT OF EXCLUSION FENCING SUBJECT TO APPROVAL OF UI AND/OR THEIR DESIGNATED REPRESENTATIVE. \* TEMPORARY MATTING IS THE PREFERRED METHOD. THE USE OF TEMPORARY GRAVEL WILL BE IMPLEMENTED ONLY ON AN AS-NEEDED BASIS WHERE SAFETY OR OTHER UNKNOWN FIELD CONDITIONS MAY EXIST, AND WILL REQUIRE PRIOR UI APPROVAL.

GRAVEL WILL NOT BE UTILIZED IN WETLAND, WATERCOURSE OR ANY OTHER UI IDENTIFIED SENSITIVE RESOURCE AREAS. ALL WATERCOURSE CROSSINGS MUST BE SPANNED AS TO NOT IMPEDE WATER FLOW OR FISH PASSAGE.

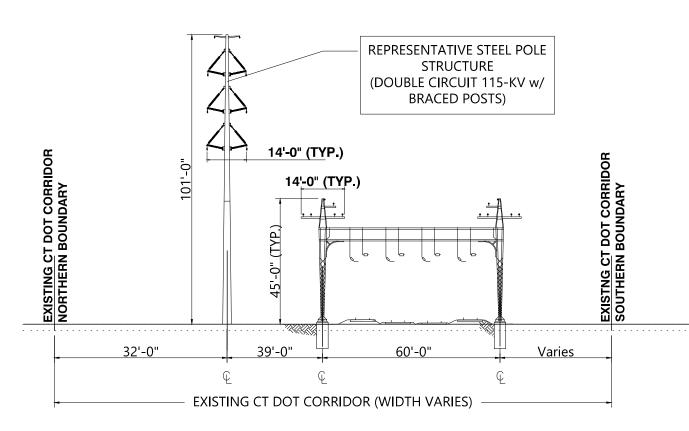


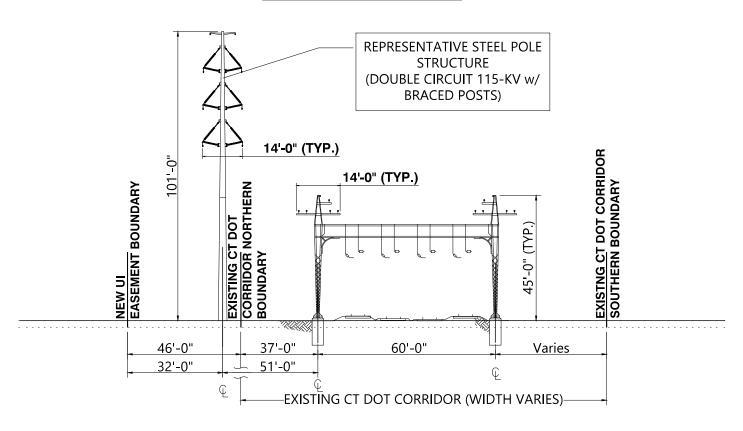
Westwood Surveying and Engineering, P.C.

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Phone	(952) 937-5150	1684 South Broad	Street, Suite #300
Fax	(952) 937-5822	Lansdale, PA 19446	5
Tol Free	(888) 937-5150	ww-pc.com	

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ite #300	0-0B	20
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			<u> </u>	П		UI <sup>2</sup>	115-kV RR	PRO	DJECT	MILVON TO WEST	RIVER
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0.00	0004105145	WESTWOOD	OF ONE NET A DOME BY AN EOD OOD OUR MODION			DR.	SFB	SCALE	AS SHOWN	FILE:	
0-0B	2024/05/15	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION			CK.	JRD	NO.			REV.
0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW			APP.	MSP	1	MAPSHE	ET 11 OF 12	0-0B
REV	DATE	BY	DESCRIPTION		APP	DATE:	JUNE 2024	1			1 00





## XS-8a (FACING EAST)

## **GENERAL NOTES**

#### GENERAL WORK DESCRIPTION

- NEW STEEL MONOPOLES P1007N, P1008NN AND P1008WN WILL BE INSTALLED.
- BONNETS B1007N/S AND B1008S WILL BE REMOVED.
- EXISTING STEEL STRUCTURES OUTSIDE AND ADJACENT TO ALLINGS CROSSING SUBSTATION WILL REMAIN; HARDWARE AND INSULATORS WILL BE REPLACED.
- THREE EXISTING STEEL POLES ON THE OPPOSITE SIDE OF THE TRACKS FROM ALLINGS CROSSING SUBSTATION TO BE REMOVED.
- EXISTING WOOD POLES ON THE NORTH SIDE OF THE RAILROAD TRACKS TO BE REMOVED.
- THE TOP PORTIONS OF FOUR EXISTING LATTICE TOWERS (TP1007EN, TP1007ES, TP1008WN, AND TP1008WS), LOCATED ADJACENT TO ALLINGS CROSSING ROAD, WILL BE REMOVED.
- PROJECT ACTIVITIES INCLUDE: VEGETATION CLEARING, REMOVAL OF EXISTING 115-kV EQUIPMENT, AND INSTALLATION OF ACCESS ROADS, WORK PADS, FOUNDATIONS, STEEL MONOPOLES, AND CONDUCTOR.
- EXCLUSIONARY FENCING TO BE COORDINATED WITH UI IN ACCORDANCE WITH THE SPECIES PROTECTION PLAN.
- EROSION AND SEDIMENT CONTROLS TO BE INSTALLED ON SITE UNDER THE SUPERVISION OF AN ENVIRONMENTAL INSPECTOR IN ACCORDANCE WITH CT DEEP GUIDELINES AND THE PROJECT SWPCP.
- EROSION AND SEDIMENT CONTROLS ARE SHOWN IN GENERAL LOCATIONS ON THE PLANS BUT MAY BE MODIFIED BASED ON SITE FIELD CONDITIONS.
- CONCRETE WASHOUTS ARE SHOWN IN GENERAL LOCATIONS AND ARE TO BE UTILIZED IN ACCORDANCE WITH CT DEEP EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- TEMPORARY ACCESS AND PADS WITH NO MATTING ARE ON EXISTING PAVEMENT OR GRAVEL. ACCESS ROUTES THROUGH PAVEMENT AND GRAVEL AREAS ARE SUBJECT TO CHANGE BASED ON ACCESS AGREEMENTS WITH LANDOWNER.
- NO STUMP REMOVAL, GRADING, MECHANIZED PUSHING, DRAGGING, TEMPORARY SIDE-CASTING OF EXCAVATED MATERIAL OR OTHER SIMILAR ACTIVITIES TO BE CONDUCTED IN WETLANDS UNLESS OTHERWISE DEPICTED.
- GUARD STRUCTURE WORK SPACES TO BE UTILIZED ON AN AS-NEEDED BASIS FOR WIRE PULLING ACTIVITIES. SCHEDULE AND WORK AREA PROTECTION TO BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH MUTCD GUIDELINES AND APPROPRIATELY COORDINATED WITH MUNICIPALITY

#### CT DOT CORRIDOR/PROJECT WORK AREA DESCRIPTION

#### WETLANDS, WATERCOURSES, WATERWAYS AND SENSITIVE AREAS

- WATERCOURSES WH-WC8, 9, 10, 11, 12, 13, 14, 15, & 16
- WETLAND WH-W4
- WETLAND WH-W5
- NO NDDB AREA WITHIN SHEET

#### **ROAD CROSSINGS**

ALLINGS CROSSING RD

Drainage ID	Watercourse ID	Status	Crossing type/Culvert size	Closest Structure
18	WH-WC9	Temporary	Culvert - size to channel dimensions	P1007N
19	WH-WC10	Temporary	Culvert - size to channel dimensions	B1008S
20	WH-WC14	Temporary	Culvert - size to channel dimensions	TP1008

## DRAINAGE CROSSING TABLE

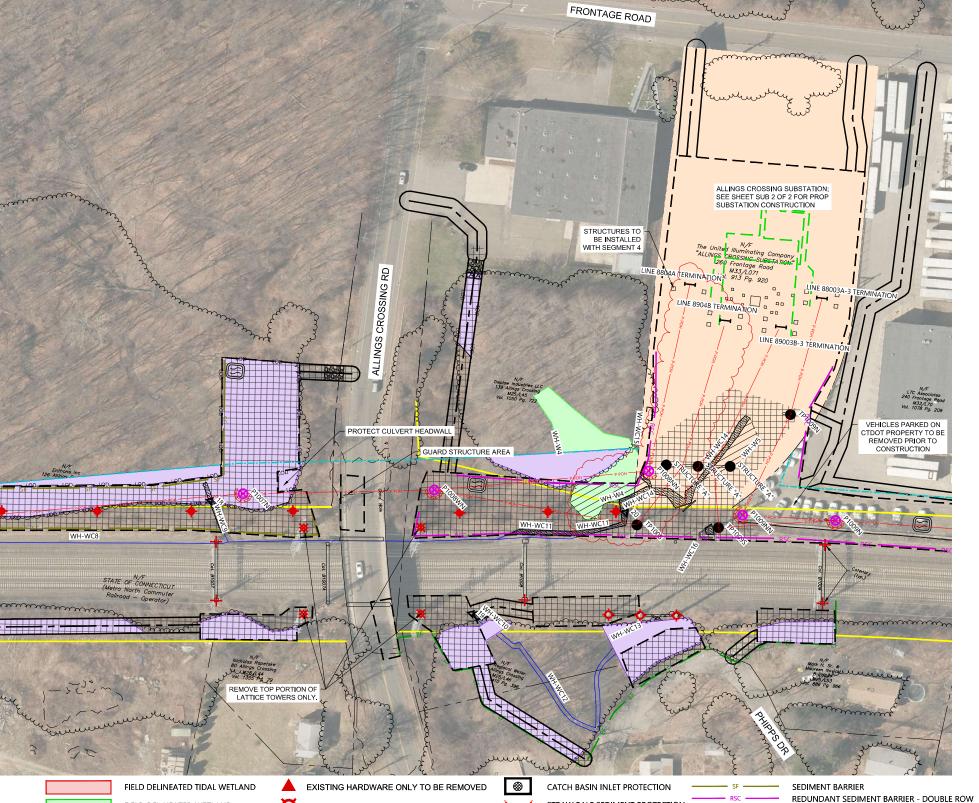
STRUCTURE NO.	STRUCTURE TYPE	CROSS SECTION	HEIGHT (FT)	FOUNDATION
P1007N	TANGENT	XS-8a	101	CONCRETE DRILLED PIER
P1008WN	TANGENT	XS-7	101	CONCRETE DRILLED PIER

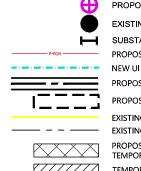
## STRUCTURE DETAIL TABLE

					UI AVANG		UI 1		PROJECT MILVON TO WEST R PMENT & MANAGEMENT PLAN	
Westwood Surveying & Engineering								MAPSHE	ET 12 STRUCTURES AND NOTE	S
Phone (952) 937-5150 1684 South Broad Street, Suite #300	0-0B	0004105145	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION			DR.	SFB	SCALE AS SHOWN FILE:	
Fax (952) 937-5822 Lansdale, PA 19446	0-08	2024/05/15	WESTWOOD	SEGMENT 4 DAM PLAN FOR USC SUBMISSION			CK.	JRD	NO.	REV.
Tol Free (888) 937-5150 ww-pc.com	0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW			APP.	MSP		0-0B
Westwood Surveying and Engineering, P.C.	REV.	DATE	BY	DESCRIPTION		APP.	DATE:	JUNE 2024		1 3 D



SEE SHEET





LEGEND

PROPOSED TRANSMISSION POLE

EXISTING TRANSMISSION POLE SUBSTATION TERMINATION STRUCTURE PROPOSED TRANSMISSION CENTER LINE **NEW UI EASEMENT BOUNDARY** 

PROPOSED TEMPORARY ACCESS ROAD

PROPOSED WORK/PULLING PAD

**EXISTING CTDOT CORRIDOR BOUNDARY** EXISTING PROPERTY LINE

PROPOSED TEMPORARY MATTING / TEMPORARY GRAVEL WITH UI APPROVAL\* TEMPORARY MATTED WETLAND IMPACT

TEMPORARY MATTED STREAM IMPACT

FIELD DELINEATED WETLAND

FEMA 100-YEAR FLOODPLAIN LIMIT

UI OWNED PROPERTY FIELD DELINEATED STREAM EXISTING TREE LINE PROPOSED TREE CLEARING FIELD DELINEATED TIDAL STREAM CT DEEP COASTAL ZONE PROPOSED PERMANENT ACCESS ROAD TO REMAIN

PERMANENT WETLAND IMPACT

OPEN ENDED WETLAND DELINEATION BOUNDARY OPEN ENDED WETLAND DELINEATION DIRECTION

EXISTING STEEL POLE TO BE REMOVED EXISTING LATTICE TOWER TO BE REMOVED

EXISTING BONNET TO BE REMOVED

EXISTING WOOD POLE TO BE REMOVED EXISTING STEEL POLE TOP TO BE REMOVED AND CAPPED

▲ DRAINAGE CROSSING

Westwood Surveying and Engineering, P.C.

STRAW BALE SEDIMENT PROTECTION CONCRETE WASHOUT

ROCK CONSTRUCTION ENTRANCE

\*\*IN LOCATIONS WHERE MATTING HEIGHT IS A MINIMUM OF 20" ABOVE EXISTING GRADE WITHOUT ANY GAPS IN OUTER WALL FACE OF MATTING, THE MATTING IS AN ACCEPTABLE REPLACEMENT OF EXCLUSION FENCING SUBJECT TO APPROVAL OF UI AND/OR THEIR DESIGNATED REPRESENTATIVE.

EXCLUSIONARY FENCE

— LOD — LOD — LIMIT OF DISTURBANCE

0-0A 2024/04/19 WESTWOOD SEGMENT 4 D&M PLAN FOR UI REVIEW

\* TEMPORARY MATTING IS THE PREFERRED METHOD. THE USE OF TEMPORARY GRAVEL WILL BE IMPLEMENTED ONLY ON AN AS-NEEDED BASIS WHERE SAFETY OR OTHER UNKNOWN FIELD CONDITIONS MAY EXIST, AND WILL REQUIRE PRIOR UI APPROVAL.

GRAVEL WILL NOT BE UTILIZED IN WETLAND, WATERCOURSE OR ANY OTHER UI IDENTIFIED SENSITIVE RESOURCE AREAS. ALL WATERCOURSE CROSSINGS MUST BE SPANNED AS TO NOT IMPEDE WATER FLOW OR FISH PASSAGE.

MAPSHEET 12 OF 12



0' 50' 100' 150'				<b>***</b>	UI AVANG	UI			MILVON TO WEST RI MANAGEMENT PLAN	
Westwood										
Surveying & Engineering										
Phone (952) 937-5150 1684 South Broad Street, Suite #300	0-0B	2024/05/15	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION		-	SFB	SCALE AS SHOWN	FILE:	Lpry

## **SUBSTATION WORK PLANS**

SUBSTATION 1: WOODMONT SUBSTATION

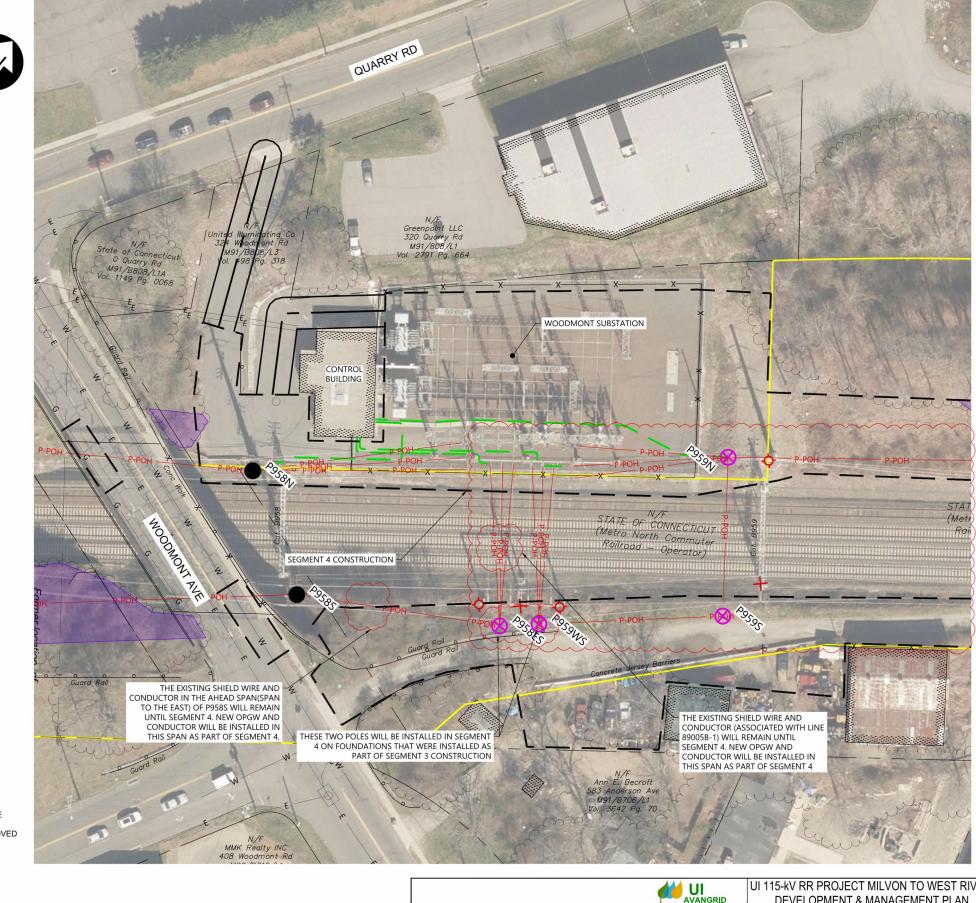
SUBSTATION 2: ALLINGS CROSSING SUBSTATION

Westwood
Surveying & Engineering
Phone (952) 937-5150 1684 South Broad Street, Suite #300
Fax (952) 937-5822 Landale, PA 19446



#### **GENERAL WOODMONT SUBSTATION NOTES:**

1. UNDERGROUND ADSS FROM EXISTING P958N TO SUBSTATION CONTROL BUILDING IS TO BE INSTALLED AS PART OF SEGMENT 3. ALL OTHER UNDERGROUND ADSS MAY BE INSTALLED AS PART OF SEGMENT 3 DEPENDING ON CONTRACTOR'S SEQUENCING APPROACH. IF NOT INSTALLED AS PART OF SEGMENT 3 CONSTRUCTION, THEY WILL BE INSTALLED AS PART OF SEGMENT 4 CONSTRUCTION.





PROPOSED TRANSMISSION POLE

EXISTING TRANSMISSION POLE

SUBSTATION TERMINATION STRUCTURE

PROPOSED TRANSMISSION CENTER LINE

NEW UI EASEMENT BOUNDARY

PROPOSED TEMPORARY ACCESS ROAD

PROPOSED WORK/PULLING CONSTRUCTION AREA

PROPOSED WORK/PULLING CONSTRUCTION AREA
EXISTING CTDOT CORRIDOR BOUNDARY
EXISTING PROPERTY LINE
PROPOSED TEMPORARY MATTING
EXISTING TREE LINE
PROPOSED TREE CLEARING

PROPOSED UNDERGROUND ADSS

EXISTING FENCE
PROPOSED TEMPORARY SUBSTATION FENCE
EXISTING HARDWARE ONLY TO BE REMOVED

EXISTING STEEL POLE TO BE REMOVED

EXISTING BONNET TO BE REMOVED

EXISTING WOOD POLE TO BE REMOVED

EXISTING STEEL POLE TOP TO BE REMOVED

AND CAPPED

EXISTING LATTICE TOWER TO BE REMOVED

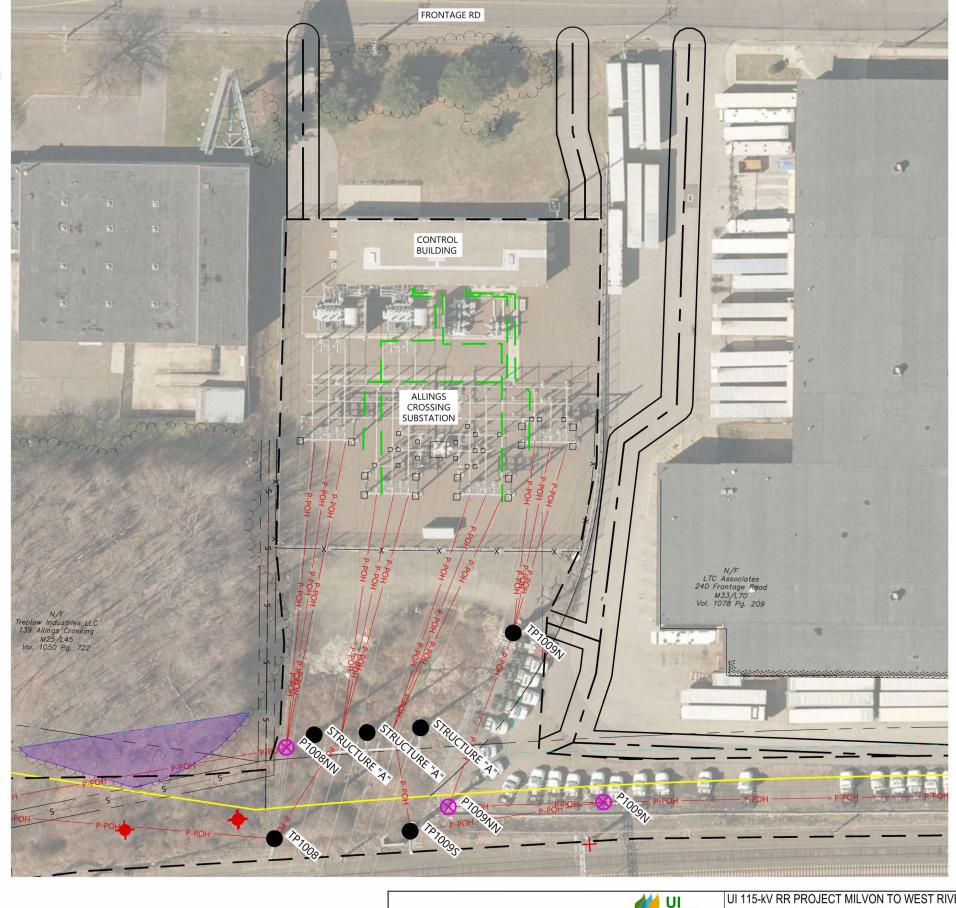
Westwood
Surveying & Engineering
Phone (952) 937-5150 1845 outh Broad Street, Suite #300
Fax (952) 937-5822 Landslale, PA 19446
Tol Free (88) 937-5150 wep-com
Westwood Surveying and Engineering, P.C.

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							WOODMON	T SUBSTATION	
0-0B	2024/05/15	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION		DR.		SCALE AS SHOWN	FILE:	
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0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW		APP.	MSP	SUB	1 OF 2	0-08

#### GENERAL ALLINGS CROSSING SUBSTATION NOTES:

1. UNDERGROUND ADSS FROM THE EASTERN MOST TERMINATION STRUCTURE TO THE SUBSTATION CONTROL BUILDING IS TO BE INSTALLED AS PART OF SEGMENT 2. ALL OTHER UNDERGROUND ADSS MAY BE INSTALLED AS PART OF SEGMENT 2 DEPENDING ON CONTRACTORS SEQUENCING APPROACH. IF NOT INSTALLED AS PART OF SEGMENT 2, IT WILL BE INSTALLED AS PART OF SEGMENT 4 CONSTRUCTION.







PROPOSED TRANSMISSION POLE

EXISTING TRANSMISSION POLE

SUBSTATION TERMINATION STRUCTURE

PROPOSED TRANSMISSION CENTER LINE

NEW UI EASEMENT BOUNDARY

PROPOSED TEMPORARY ACCESS ROAD

PROPOSED WORK/PULLING CONSTRUCTION AREA

EXISTING CTDOT CORRIDOR BOUNDARY

PROPOSED WORK/PULLING CONSTRUCTION AREA
EXISTING CTDOT CORRIDOR BOUNDARY
EXISTING PROPERTY LINE
PROPOSED TEMPORARY MATTING
EXISTING TREE LINE
PROPOSED TREE CLEARING

PROPOSED UNDERGROUND ADSS

EXISTING FENCE

PROPOSED TEMPORARY SUBSTATION FENCE

EXISTING HARDWARE ONLY TO BE REMOVED

EXISTING STEEL POLE TO BE REMOVED

EXISTING LATTICE TOWER TO BE REMOVED

EXISTING BONNET TO BE REMOVED

EXISTING WOOD POLE TO BE REMOVED

EXISTING STEEL POLE TOP TO BE REMOVED

AND CAPPED

Westwood Surveying & Engineering Phone (95):937-5150 1 (864 South Broad Street, Suite #300

Westwood Surveying and Engineering, P.C.

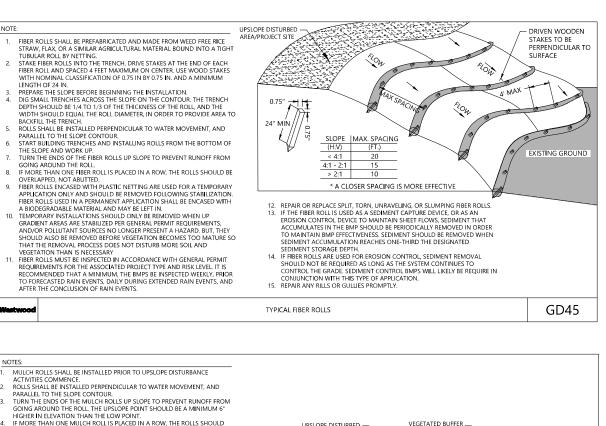
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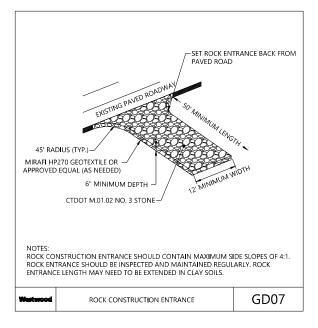
## TYPICAL DETAILS

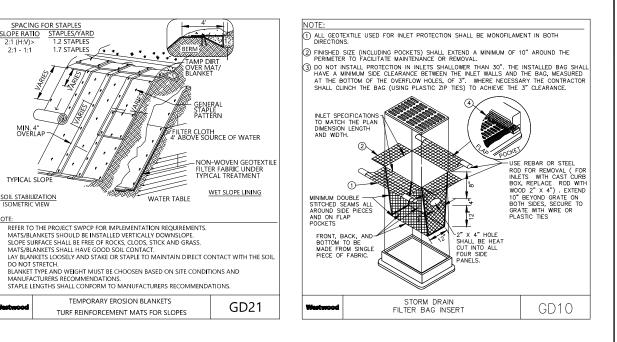
DET 1: EROSION AND SEDIMENT CONTROL

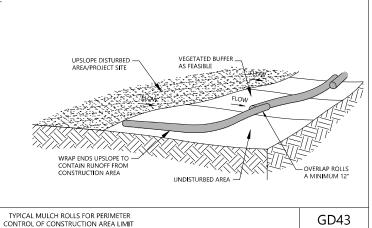
**DET 2: CONSTRUCTION DETAILS** 

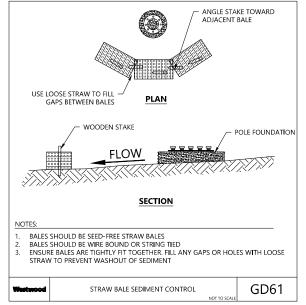
Westwood
Surveying & Engineering
Phone (952) 937-5152 Lansdale, PA 19446
Tol Free (888) 937-5150 Westwood Surveying and Engineering. P.C.

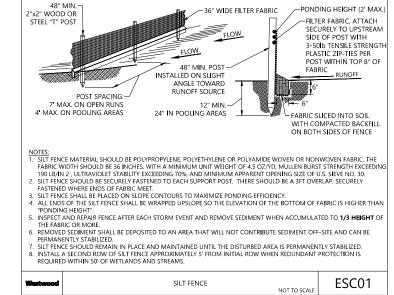


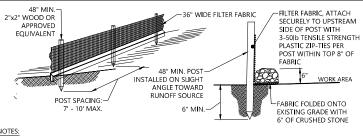












NOTES:

1. EXCLUSIONARY FENCING SHALL BE INSTALLED IN ACCORDANCE WITH THIS DETAIL OR DETAIL ESCO1 - SILT FENCE. II AREAS WHERE THE FENCING CANNOT BE BURIED. THE FENCING SHALL BE INSTALLED WITH FABRIC FOLDED ONTO

EXISTING GRADE TOWARDS THE WORK AREA AND COVERED WITH 6" OF CRUSHED STONE, PER ABOVE.

EXCLUSIONARY FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN OR

NONWOVEN FABRIC. THE FABRIC WIDTH SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/IN 2 , ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM

APPARENT OPENING SIZE OF U.S. SIEVE NO. 30.

EXCLUSIONARY FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST. THERE SHOULD BE A 3FT OVERLAP. SECURELY FASTENED WHERE ENDS OF FABRIC MEET.

INSPECT EXCLUSIONARY FENCING DAILY IN ACTIVE WORK AREAS AND AFTER EACH STORM EVENT OF 0.25 INCHES OR EXCLUSIONARY FENCE SHOULD REMAIN IN PLACE AND MAINTAINED UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED.

ALL OPENINGS IN THE ISOLATION BARRIER USED FOR WORK AREA ACCESS ARE TO BE MAINTAINED AND MONITORED IN ACCORDANCE WITH THE SPECIES PROTECTION PLAN. ALL OPENINGS, USED DURING THE WORKDAY FOR ACCESSIBILITY, MUST BE CLOSED WITH TEMPORARY SILT FENCING BACKED WITH STRAWBALES AT THE COMPLETION OF EACH DAY AND WHEN THE WORK AREA IS NOT IN ACTIVE USE. ALTERNATIVELY, A TEMPORARY, SELF-SUPPORTED PLYWOOD BARRIER WHICH MAINTAINS COMPLETE CONTACT WITH THE GROUND CAN BE USED.

STRAW BALES MAY NOT EXCLUSIVELY BE USED AS EXCLUSIONARY FENCE.

BE OVERLAPPED A MINIMUM OF 12 INCHES, NOT ABUTTED

REPAIR OR REPLACE SPLIT, TORN, OR FLATTENED MULCH ROLLS. SEDIMENT THAT ACCUMULATES UPSLOPE OF THE BMP SHOULD BE

GULLIES SHOULD BE PROMPTLY REPAIRED.

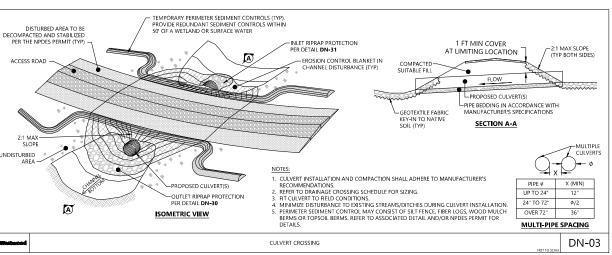
PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS

SEDIMENT SHOULD BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES ONE-HALF THE DESIGNATED SEDIMENT STORAGE DEPTH.

RILLS OR GUILLIES MAY REGIN TO FORM FOLLOWING MAJOR STORM EVENTS

BE OVERLAPPED A MINIMUM OF 12 INCHES, NOT ABUTTED.
TEMPORARY INSTALLATIONS SHOULD ONLY BE REMOVED WHEN UP
GRADIENT AREAS ARE STABILIZED PER GENERAL PERMIT REQUIREMENTS,
AND/OR POLLUTANT SOURCES NO LONGER PRESENT A HAZARD, BUT, THEY
SHOULD ALSO BE REMOVED BEFORE VEGETATION BECOMES TOO MATURE SO
THAT THE REMOVAL PROCESS DOES NOT DISTURB MORE SOIL AND
VEGETATION THAN IS NECESSARY
MULCH ROLLS MUST BE INSPECTED IN ACCORDANCE WITH GENERAL PERMIT
REQUIREMENTS. IT IS RECOMMENDED THAT AT A MINIMUM, THE BMPS BE
INSPECTED WEEKLY, PRIOR TO FORECASTED RAIN EVENTS, DAILY DURING
EXTENDED RAIN EVENTS, AND AFTER THE CONCLUSION OF RAIN EVENTS.
BEPAIR OR REPLIACE SPILL TORN OF BETTENED MILICELY ROLLS.

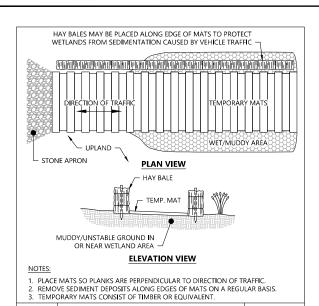
SPECIES EXCLUSIONARY FENCE



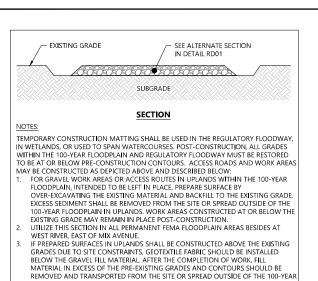
iU 🕌 UI 115-kV RR PROJECT MILVON TO WEST RIVER **DEVELOPMENT & MANAGEMENT PLAN** EROSION AND SEDIMENT CONTROL DETAILS Westwood Surveying & Engineering (952) 937-5150 1684 South Broad Street, Suite #300 (952) 937-5822 Lansdale, PA 19446 ww-pc.com SCALE AS SHOWN FILE 0-0B 2024/05/15 WESTWOOD SEGMENT 4 D&M PLAN FOR CSC SUBMISSION 2024/04/19 WESTWOOD SEGMENT 4 D&M PLAN FOR UI REVIEW DET 1 OF 2 Westwood Surveying and Engineering, P.C.

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ESC01.1



TYPICAL MAT USE IN WET AREAS



ALTERNATIVELY, TEMPORARY CONSTRUCTION MATTING MAY ALSO BE USED IN THE

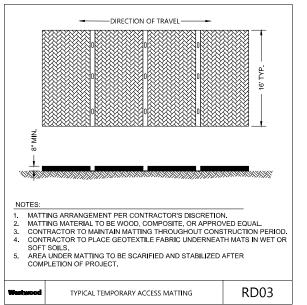
RD-13

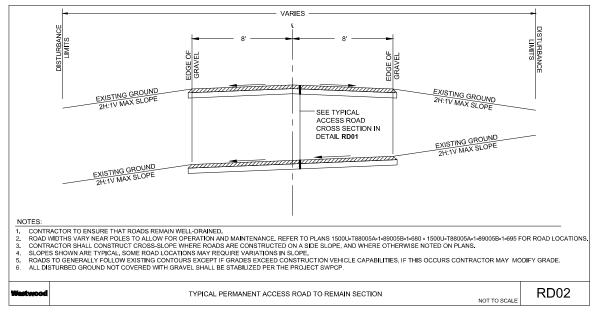
PERMANENT ACCESS OR WORK PAD

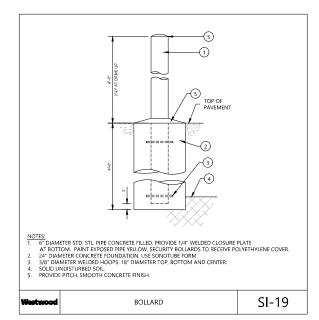
CONSTRUCTION IN FLOODPLAINS

100-YEAR FLOODPLAIN.

SW-18

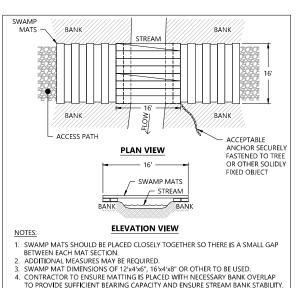




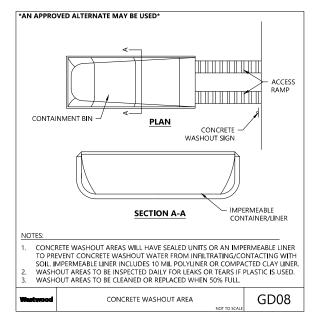


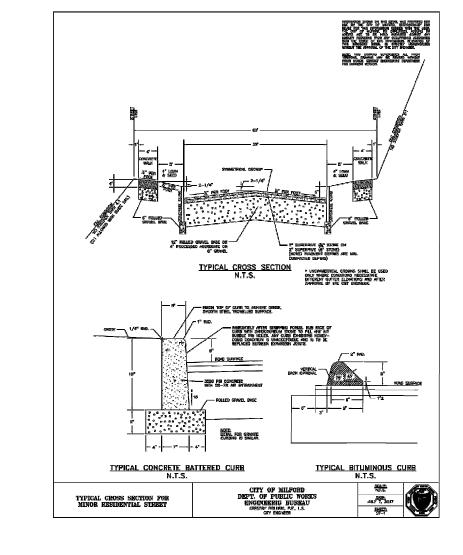
- 8" MINIMUM CTDOT FREE

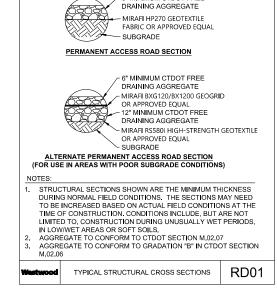
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SWAMP MAT BRIDGE FOR TEMPORARY STREAM CROSSING

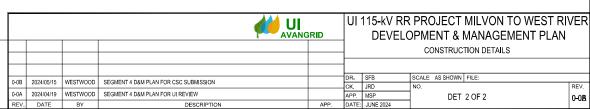








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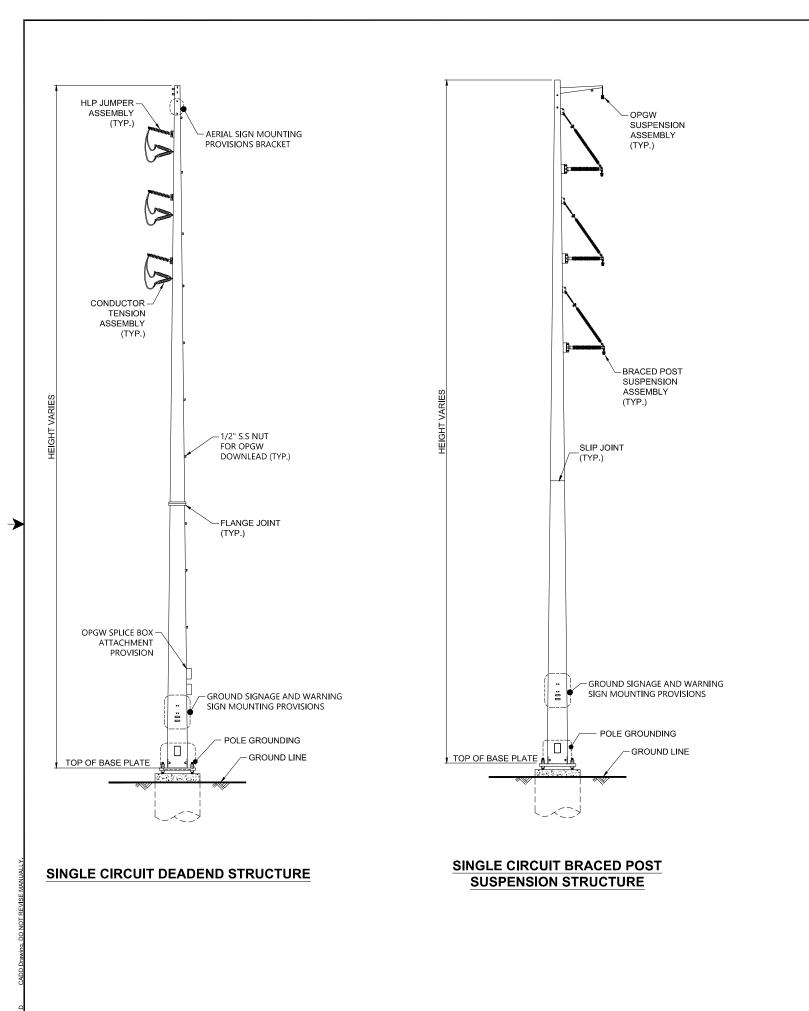


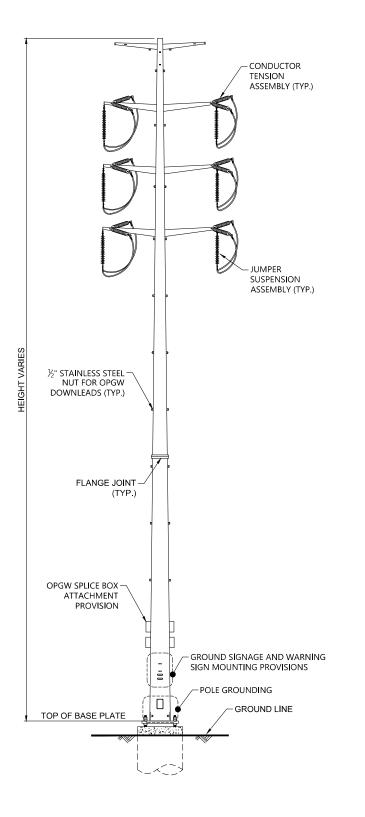
# STRUCTURE DETAILS

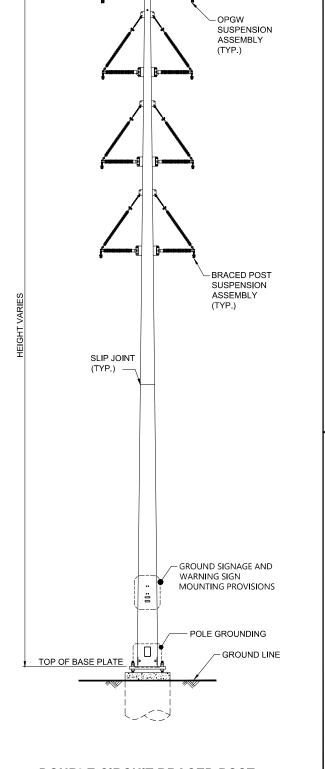
STR 1: TYPICAL STRUCTURE CONFIGURATIONS

STR 2: TYPICAL FOUNDATION & GROUNDING DETAILS

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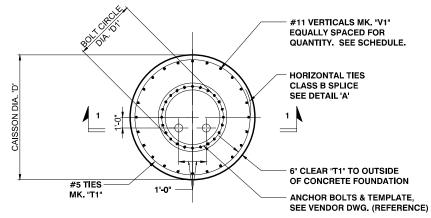




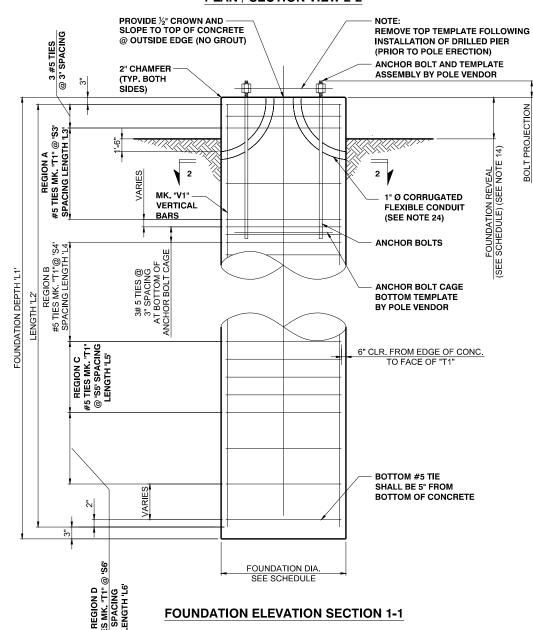
### DOUBLE CIRCUIT DEADEND STRUCTURE

## DOUBLE CIRCUIT BRACED POST SUSPENSION STRUCTURE

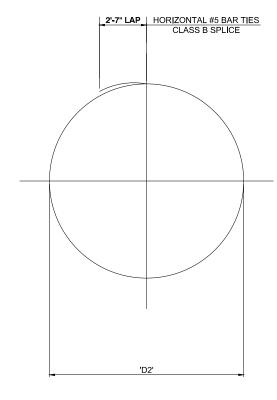
				<b>UI</b> AVANG		UI 115-kV RR PROJECT MILVON TO WEST RIVE   DEVELOPMENT & MANAGEMENT PLAN				
Westwood								TYF	PICAL STRUCTURE CONFIGURATIONS	
Surveying & Engineering										
Phone (952) 937-5150 1684 South Broad Street, Suite #300 Fax (952) 937-5822 Lansdale, PA 19446 Tol Free (888) 937-5150 ww-pc.com Westwood Surveying and Engineering P.C	0-0B	2024/05/15	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC SUBMISSION					SCALE AS SHOWN FILE:	
	0-0A	2024/04/19	WESTWOOD	SEGMENT 4 D&M PLAN FOR UI REVIEW				JRD MSP		0-0B
	REV.	DATE	BY	DESCRIPTION		APP.	DATE:	JUNE 2024	511( T 51 E	0-00



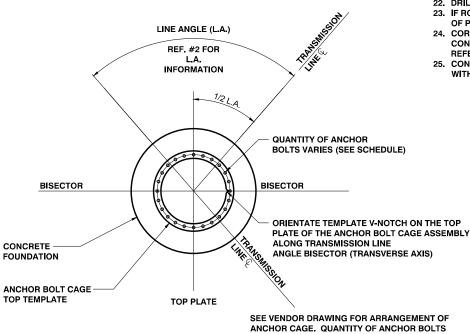
#### **PLAN / SECTION VIEW 2-2**



**>** 



**DETAIL 'A'** HORIZONTAL TIES MK. 'T1' DIMENSIONS



#### NOTES

- 1. FOR POLE LOCATION COORDINATES, SEE REFERENCE DOCUMENT NO. 1.
- FOR WORK AREA ACCESS PLANS, SEE THE CIVIL ACCESS PLANS: DRAWING NUMBERS
- 1500U-T88005A-1-89005B-1-630 THROUGH 1500U-T88005A-1-89005B-1-642.
- COMPRESSIVE STRENGTH OF CONCRETE SHALL BE MINIMUM 4,500 PSI IN 28 DAYS. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GR. 60.
- ALL STRAIGHT VERTICAL REINFORCING BARS SHALL BE EVENLY SPACED AROUND THE REINFORCING TIES.
- ALL REINFORCING TIES SHALL BE EVENLY SPACED.
- PRE-ASSEMBLED ANCHOR BOLT SETTING TEMPLATES SHALL BE FURNISHED BY NELLO. ANCHOR BOLTS FURNISHED BY NELLO SHALL CONFORM TO ASTM A615 GRADE 75 AND PLATES SHALL CONFORM TO ASTM
- 8. ANCHOR BOLT ASSEMBLIES SHALL BE SET CENTERED IN THE AS-DRILLED CAISSON. FOR ADDITIONAL ANCHOR BOLT INSTALLATION INFORMATION, SEE NELLO'S INSTALLATION DRAWINGS FOR THE ANCHOR BOLT
- CONTRACTOR INSTALLING THE ANCHOR BOLT ASSEMBLIES SHALL BE FAMILIAR WITH ALL OF NELLO'S INSTALLATION PROCEDURES PRIOR TO INSTALLING ANCHOR BOLT ASSEMBLIES. CONTRACTOR IS RESPONSIBLE FOR SELECTING THE CORRECT ANCHOR BOLT ASSEMBLY FOR THE PIER LOCATION AND VERIFICATION OF ASSEMBLY DIAMETER AND LENGTH REQUIRED PRIOR TO INSTALLATION.

  10. ANCHOR BOLT CAGE SHALL BE INSTALLED SUCH THAT ONCE THE CONCRETE HAS CURED THE ANCHOR
- BOLTS ARE EACH WITHIN  $\%_6$  INCH OF THE DESIGN LOCATION AND PLUMB WITHIN  $\%_6$  INCH OVER THE ANCHOR
- 11. BEFORE CONCRETE IS PLACED, CARE SHALL BE TAKEN TO ASSURE THAT ALL EMBEDDED ITEMS ARE FIRMLY AND SECURELY FASTENED IN PLACE TO PREVENT DISPLACEMENT. ANCHOR BOLTS SHALL BE SUPPORTED AND SET BY USING TEMPLATES AND BOTTOM PLATES WITH TOP AND BOTTOM ENDS SECURELY TIED TO ENSURE ACCURACY OF LOCATION AND PLUMBNESS. TEMPLATES SHALL BE LEFT IN PLACE DURING AND AFTER CONCRETE PLACEMENT UNTIL INSTALLATION OF STEEL STRUCTURE.
- 12. BACKFILL AROUND THE FOUNDATIONS WITH CLEAN NATIVE SOIL FREE OF ORGANIC MATERIALS, COMPACTED TO A MINIMUM OF 90% OF MODIFIED PROCTOR DENSITY PER ASTM D1557.
- 13. FOR ADDITIONAL SUBSURFACE INFORMATION, SEE THE "GEOTECHNICAL REPORT". (ITEM #5 OF REFERENCE
- 14. FORMED CONCRETE SURFACES WHICH WILL BE EXPOSED ABOVE GRADE SHALL BE CLEANED AND RUBBED TO PRODUCE A SMOOTH, UNIFORM SURFACE FREE OF MARKS, VOIDS, SURFACE GLAZE AND DISCOLORATIONS.
- 15. ALL CONCRETE SHALL BE PLACED IN A SINGLE CONTINUOUS OPERATION TO PRODUCE A MONOLITHIC FOUNDATION AS PER ITEM #4 OF REFERENCE DOCUMENT LIST.
- 16. ALL REINFORCING CLEAR DISTANCES SHALL BE THE DISTANCE FROM THE FACE OF EACH BAR.
   17. NO WELDING TO CAISSON REINFORCING (VERTICAL REBAR OR TIES), OR TO ANCHOR BOLT CAGES SHALL BE PERMITTED. ALL LAP SPLICES USED FOR REINFORCING, IF USED, SHALL BE CLASS-B SPLICES IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318.
- 18. NEAT-LINE CONCRETE VOLUMES DOES NOT INCLUDE EXTRA CONCRETE THAT MAY BE REQUIRED TO FILL **VOIDS OR MAKE FIELD ADJUSTMENTS.**
- 19. CASINGS USED TO FORM FOUNDATIONS SHALL BE REMOVED UNLESS OTHERWISE SPECIFIED BY THE ENGINEER. ANY USE OF A PERMANENT CASING SHALL BE APPROVED BY WESTWOOD.
- 20. USE OF TELESCOPING CASING IS ALLOWED BUT SHALL BE APPROVED BY UNITED ILLUMINATING AND
- 21. FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH THE RESPECTIVE SOIL PROPERTIES AND BORING LOGS IN THE "GEOTECHNICAL REPORT" (ITEM #5 OF REFERENCE DOCUMENT LIST).
- 22. DRILLED PIERS SHALL BE INSTALLED IN ACCORDENCE WITH THE LATEST REVISION OF ACI 336,3R.
- 23. IF ROCK IS ENCOUNTERED AT A DIFFERENT DEPTH THAN SHOWN ON THE BORING LOGS, NOTIFY WESTWOOD OF POSSIBLE RE-DESIGN OF THAT SPECIFIC FOUNDATION.
- 24. CORRUGATED FLEXIBLE CONDUIT SHALL BE INSTALLED SUCH THAT WATER DOES NOT COLLECT IN THE CONDUIT AND BELOW GRADE PORTION IS PARALLEL TO RAILROAD TRACKS. SEE ITEMS #6 & #7 OF REFERENCE DOCUMENT LIST FOR MORE INFORMATION ON GROUNDING AND CONDUIT INSTALLATION.
- 25. CONTRACTORS INVOLVED IN THE INSTALLATION OF THE POLE STRUCTURE FOUNDATIONS SHALL BE FAMILIAR WITH REQUIREMENTS AND INFORMATION CONTAINED IN THE REFERENCE DOCUMENTS. SEE LISTING BELOW.

REFERENCE DRAWINGS AND SPECIFICATIONS							
ITEM#	REFERENCE DRAWING OR SPECIFICATION NUMBER	DRAWING OR SPECIFICATION TITLE					
1	1500U-T8804A-8904B-6000	WOODMONT TO ALLINGS CROSSING STAKING TABLE					
2	1500U-T6804A-8904B-9000	WOODMONT TO ALLINGS CROSSING STRUCTURE LIST					
3	TECHNCIAL SPECIFICATION SECTION 31 63 29	DRILLED PIER FOUNDATIONS					
4	TECHNCIAL SPECIFICATION SECTION 03 31 00	CAST-IN-PLACE CONCRETE					
5	1500U-T88005A-1-89005B-1-9200	GEOTECHNICAL REPORT					
6	1500U-T8804A-8904B-5020	STEEL POLE GROUNDING					
7	1500U-T6804A-8904B-5022	STEEL POLE GROUNDING W/ CROSS BOND CONNECTION					

ANCHOR BOLT ASSEMBLY ORIENTATION				
SEE REFERENCE DRAWINGS FOR ORIENTATION & INFORMATION)				
Surveying & Engineering				
Phone (952) 937-5150 1684 South Broad Street, Suite #300 Fax (952) 937-5822 Lansdale, PA 19446	0-0B	2024/05/15	WESTWOOD	SEGMENT 4 D&M PLAN FOR CSC

VARIES. (SEE SCHEDULE)

UI AVANGRI UI 115-kV RR PROJECT MILVON TO WEST RIVER **DEVELOPMENT & MANAGEMENT PLAN** TYPICAL FOUNDATION & GROUNDING DETAILS SCALE AS SHOWN FILE C SUBMISSION Tol Free (888) 937-5150 ww-pc.com 0-0A 2024/04/19 WESTWOOD SEGMENT 4 D&M PLAN FOR UI REVIEW STR 1 OF 2 Westwood Surveying and Engineering, P.C.