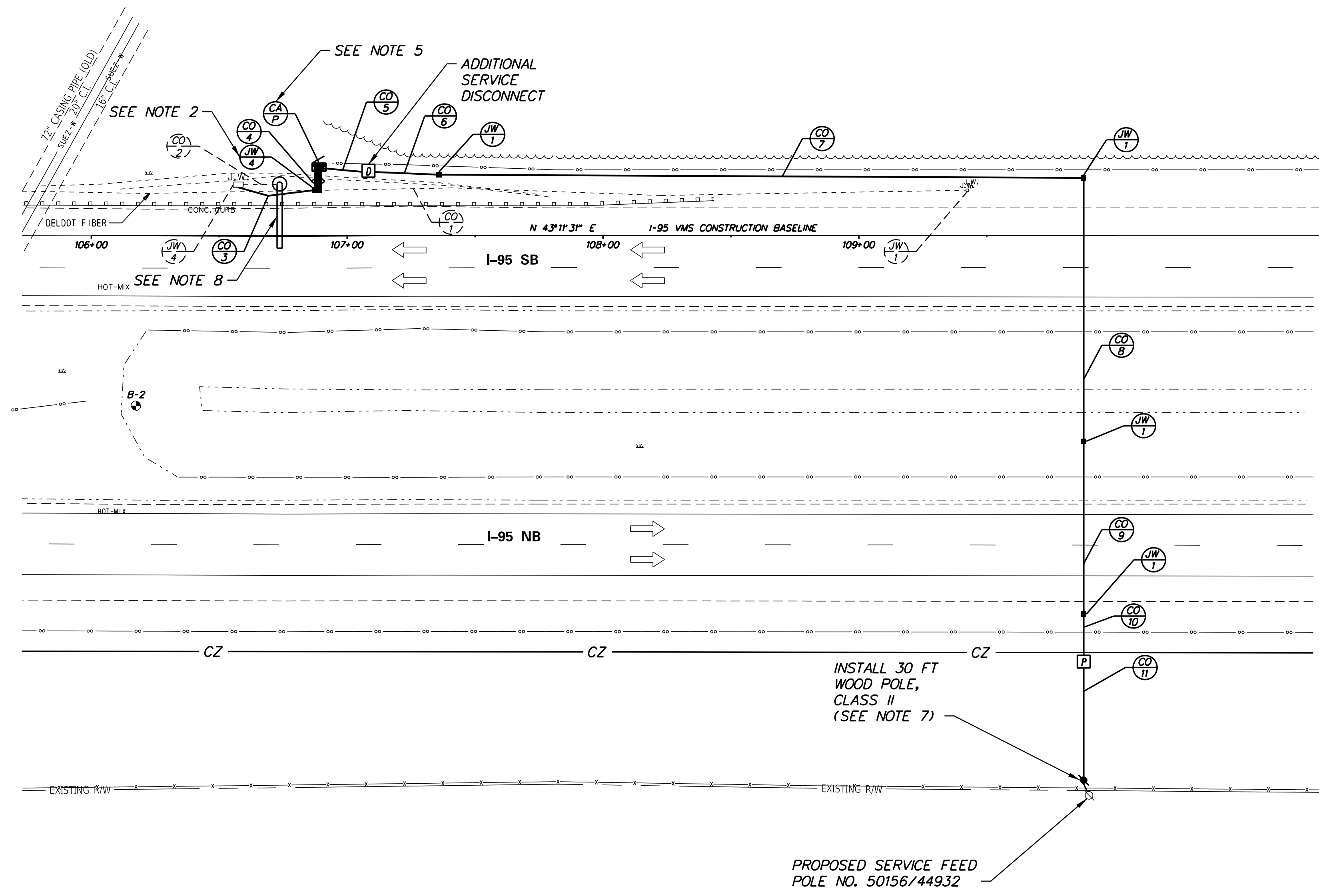
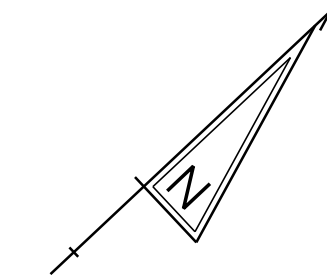


NOTES:

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- THE CONTRACTOR SHALL INSTALL THE PROPOSED JUNCTION WELL TYPE 4 SO THAT IT INTERCEPTS EXISTING CONDUIT RUN *1 AND PROPOSED CONDUIT RUNS *3 AND *4.
- ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
- ALL WORK IS INTENDED TO OCCUR WITHIN DELDOT'S EXISTING RIGHT-OF-WAY BASED ON THE NEW CASTLE COUNTY TAX PARCEL MAP.
- DELDOT TRAFFIC/OIT SHALL INSTALL A CDMA IN THE PROPOSED VMS CABINET.
- ALL CONDUIT SHALL BE SCHEDULE 80 PVC WHEN INSTALLED BY TRENCHING OR OPEN CUT AND HDPE SDR-13.5 WHEN INSTALLED BY BORING, UNLESS OTHERWISE NOTED.
- CLEARING AND GRUBBING AS NEEDED TO INSTALL CONDUIT 11 AND SET WOOD POLE.
- THE CONTRACTOR SHALL CONTACT KEVIN LINDELL AT (302) 740-7145 TO INSTALL THE PROPOSED VMS BOARD TO THE PROPOSED VMS STRUCTURE PRIOR TO STEEL ERECTION UNDER CONTRACT NO. T201907002.

CONDUIT RUN SCHEDULE					
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
1*	1	4.0 IN	XX FT	-	EMPTY
2*	1	3.0 IN	15 FT	-	(1) VMS CABLE
3	1	4.0 IN	30 FT	T	(1) VMS CABLE
4	4	4.0 IN	8 FT	T	(1) VMS CABLE
5**	1	2.0 IN	16 FT	T	(2)*1/0, (1)*1/0 GROUND - LOAD SIDE
6**	1	2.0 IN	26 FT	T	(2)*1/0, (1)*1/0 GROUND - LOAD SIDE
7	1	4.0 IN	250 FT	T	(2)*1/0, (1)*1/0 GROUND - LOAD SIDE
8	1	4.0 IN	101 FT	B	(2)*1/0, (1)*1/0 GROUND - LOAD SIDE
9	1	4.0 IN	66 FT	B	(2)*1/0, (1)*1/0 GROUND - LOAD SIDE
10**	1	2.0 IN	16 FT	T	(2)*1/0, (1)*1/0 GROUND - LOAD SIDE
11**	1	2.0 IN	50 FT	T	(2)*1/0, (1)*1/0 GROUND - LINE SIDE

* DENOTES EXISTING CONDUIT
 ** PROPOSED RIGID GALVANIZED STEEL
 B = BORE, T = TRENCH, O = OPEN CUT



LEGEND			
(AB)	ABANDON	(OH)	EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	(OH)	PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(CA)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	(PB)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)	(PB)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)	(PL)	EXISTING POLE IDENTIFIER (* OF POLE)
(JW)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(PL)	PROPOSED POLE IDENTIFIER (* OF POLE)
(JW)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(RM)	REMOVE BY CONTRACTOR
(MA)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY OTHERS
(MA)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
SERVICE DISCONNECT	[Symbol]	[Symbol]
JUNCTION WELL	J.W.	[Symbol]
LOOP DETECTOR, TYPE 1	[Symbol]	[Symbol]
LOOP DETECTOR, TYPE 2	[Symbol]	[Symbol]
LUMINAIRE	[Symbol]	[Symbol]
MAST ARM	[Symbol]	[Symbol]
MICROWAVE DETECTION	[Symbol]	[Symbol]
OPTICOM RECEIVER	[Symbol]	[Symbol]
OVERHEAD SIGNING	[Symbol]	[Symbol]
PEDESTRIAN POLE/BASE	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON	[Symbol]	[Symbol]
PEDESTRIAN SIGNAL HEAD	[Symbol]	[Symbol]
RIGHT-OF-WAY	[Symbol]	R/W
SERVICE PEDESTAL	[Symbol]	[Symbol]
SIGNAL CABINET	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL POLE/BASE	[Symbol]	[Symbol]
CCTV CAMERA	[Symbol]	[Symbol]
SPAN WIRE	[Symbol]	[Symbol]
UTILITY POLE	[Symbol]	[Symbol]
VIDEO DETECTION	[Symbol]	[Symbol]

PREPARED BY
WRA Whitman, Reardon and Associates, LLP
 Engineers Architects Environmental Planners Est. 1915
M. Buckley
 DATE: 12/16/2020
 THIS SEAL APPLIES TO ALL SHEETS BEARING THE "WRA" SECTION DESIGNATION.
 SEAL

CONCURRENCE FOR INSTALLATION
Peter Haug DELDOT
 CHIEF OF TRAFFIC ENGINEERING DATE: 12/17/2020

NEW

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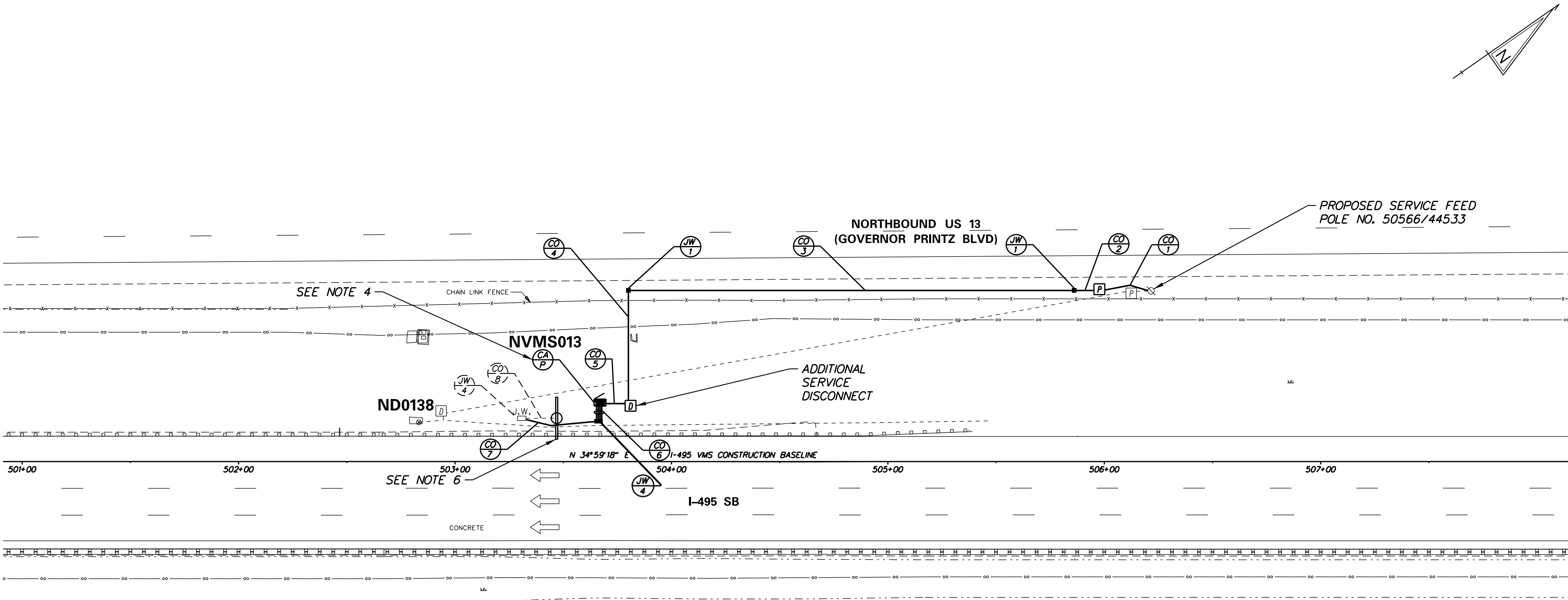
ADDENDA / REVISIONS	SCALE 0 30 60 90 FEET	ADVANCED TRAFFIC MITIGATION FOR I-95 VIADUCT AND BRANDYWINE RIVER BRIDGE	CONTRACT T201704105 COUNTY NEW CASTLE	PERMIT NO. NVMS012	DESIGNED BY: D. CARSON CHECKED BY: M. BUCKLEY	SECTION WRA SHEET NO. 1
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NOTES:

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CONDUIT RUN SCHEDULE					
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
1**	1	2.0 IN	22 FT	T	(2)*4, (1)*6 GROUND - LINE SIDE
2**	1	2.0 IN	9 FT	T	(2)*4, (1)*6 GROUND - LOAD SIDE
3	1	4.0 IN	204 FT	T	(2)*4, (1)*6 GROUND - LOAD SIDE
4**	1	2.0 IN	50 FT	T	(2)*4, (1)*6 GROUND - LOAD SIDE
5**	1	2.0 IN	10 FT	T	(2)*4, (1)*6 GROUND - LOAD SIDE
6	4	4.0 IN	8 FT	T	(1) VMS CABLE
7	1	4.0 IN	33 FT	T	(1) VMS CABLE
8*	1	3.0 IN	15 FT	-	(1) VMS CABLE

* DENOTES EXISTING CONDUIT B = BORE, T = TRENCH, O = OPEN CUT
 ** PROPOSED RIGID GALVANIZED STEEL



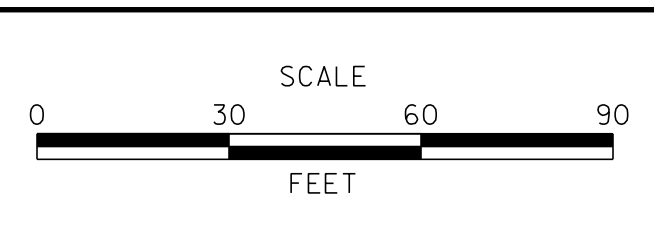
LEGEND			
(AB)	ABANDON	(OH)	EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	(OH)	PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
(CA)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	(PB)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
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(JW)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(RM)	REMOVE BY CONTRACTOR
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LOOP DETECTOR, TYPE 2	[Symbol]	[Symbol]
LUMINAIRE	[Symbol]	[Symbol]
MAST ARM	[Symbol]	[Symbol]
MICROWAVE DETECTION	[Symbol]	[Symbol]
OPTICOM RECEIVER	[Symbol]	[Symbol]
OVERHEAD SIGNING	[Symbol]	[Symbol]
PEDESTRIAN POLE/BASE	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON	[Symbol]	[Symbol]
PEDESTRIAN SIGNAL HEAD	[Symbol]	[Symbol]
RIGHT-OF-WAY	[Symbol]	[Symbol]
SERVICE PEDESTAL	[Symbol]	[Symbol]
SIGNAL CABINET	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL POLE/BASE	[Symbol]	[Symbol]
CCTV CAMERA	[Symbol]	[Symbol]
SPAN WIRE	[Symbol]	[Symbol]
UTILITY POLE	[Symbol]	[Symbol]
VIDEO DETECTION	[Symbol]	[Symbol]

PREPARED BY
WRA Whitman, Reardon and Associates, LLP
 Engineers Architects Environmental Planners Est. 1915
 M. H. B. 12/16/2020
 THIS SEAL APPLIES TO ALL SHEETS BEARING THE "WRA" SECTION DESIGNATION. DATE SEAL
CONCURRENCE FOR INSTALLATION
 Peter Haug DEB01
 CHIEF OF TRAFFIC ENGINEERING DATE 12/17/2020

NEW

ADDENDA / REVISIONS



ADVANCED TRAFFIC MITIGATION FOR I-95 VIADUCT AND BRANDYWINE RIVER BRIDGE

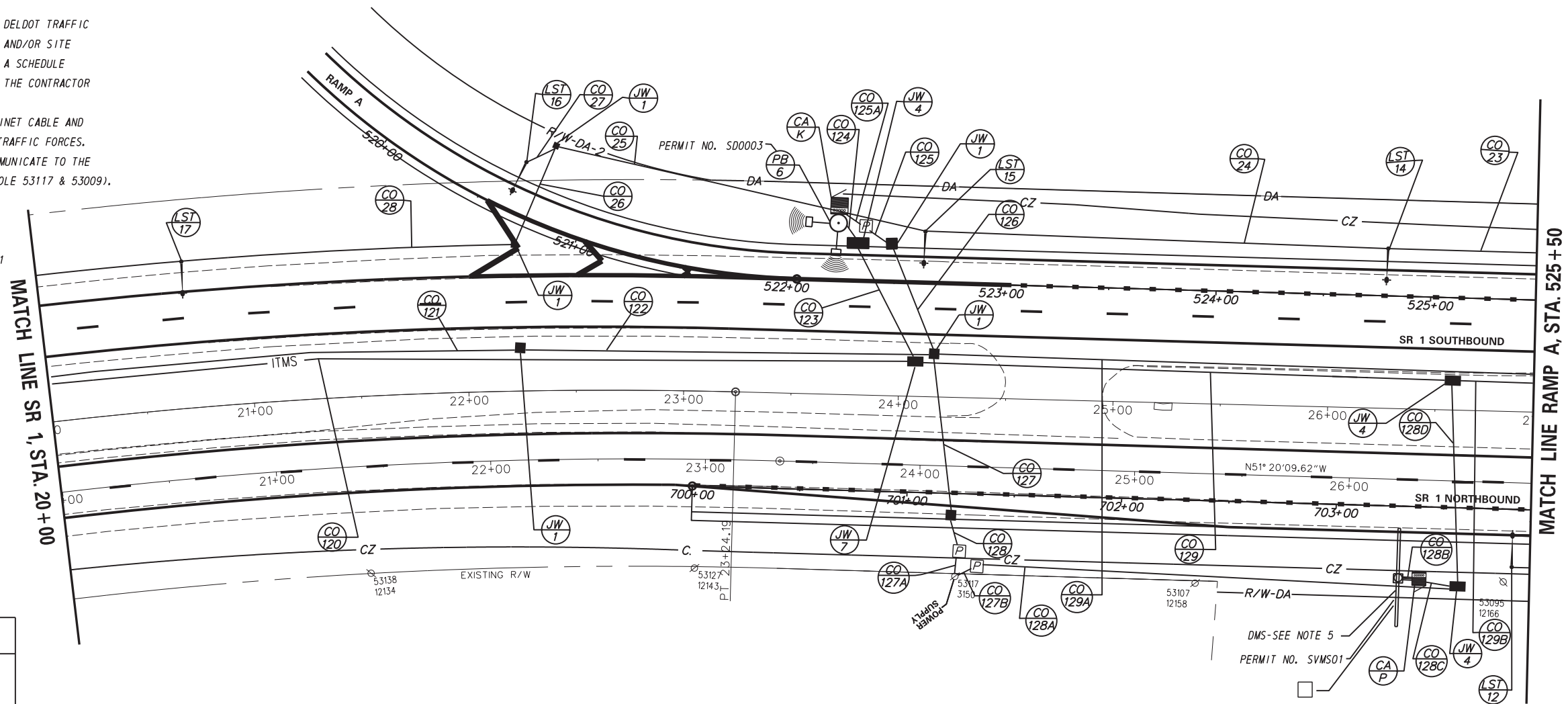
CONTRACT	PERMIT NO.	NVMS013
T201704105	DESIGNED BY:	D. CARSON
COUNTY	CHECKED BY:	M. BUCKLEY
NEW CASTLE		

VMS PLAN I-495 SOUTHBOUND NORTH OF EDMOOR RD	SECTION	WRA
	SHEET NO.	2

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NOTES:

1. ALL PROPOSED ITMS CONNECTIONS AND TERMINATIONS SHALL BE COMPLETED BY DELDOT TRAFFIC FORCES. THE CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER AT 302-222-5920 TEN(10) DAYS PRIOR TO ANY REQUIRED CONNECTION AND TERMINATION WORK.
2. ALL UNDERGROUND ITMS FACILITIES TO BE INSTALLED BY THE CONTRACTOR. PRIOR TO COMPLETION OF UNDERGROUND PATHWAY, FACILITIES AND/OR SITE AREA THE CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER AT 302-222-5920 TEN(10) DAYS PRIOR TO COMPLETION.
3. ALL PROPOSED ITMS DEVICES TO BE FURNISHED AND INSTALLED BY DELDOT TRAFFIC FORCES. UPON NOTIFICATION OF COMPLETION OF ITMS FACILITIES AND/OR SITE AREA BY THE CONTRACTOR, DELDOT TRAFFIC FORCES WILL DEVELOP A SCHEDULE OF WHEN WORK CAN BE PERFORMED TO BOTH AVOID AN WORK WITHIN THE CONTRACTOR PROPOSED SCHEDULE OF WORK.
4. PROPOSED WAVETRONIX, CAMERA, DMS, WEATHER STATION, POLE, CABINET CABLE AND ELECTRIC SERVICE, TO BE FURNISHED AND INSTALLED BY DELDOT TRAFFIC FORCES. CAMERA, WAVETRONIX, DMS AND WEATHER STATION DEVICES TO COMMUNICATE TO THE TMC VIA T1 CONNECTION AND BE POWERED VIA ELECTRIC SERVICE(POLE 53117 & 53009).
5. PRIOR TO STRUCTURE ERECTION, CONTRACTOR SHALL INSTALL
 - 1.5" FLEXIBLE METALLIC LIQUID TIGHT CONDUIT ALONG FULL LENGTH OF STRUCTURE ARM FOR DELDOT TRAFFIC USE.
 - A 2.5" RISER SHALL ALSO BE INSTALLED ON THE STRUCTURE UP-R1



LIGHTING & ITMS LEGEND

- PROPOSED LUMINAIRE IDENTIFIER (*OF LUMINAIRE)
- PROPOSED CONDUIT RUN (*OF CONDUIT RUN)
- PROPOSED COBRAHEAD LUMINAIRE, SINGLE DAVIT ARM POLE
- PROPOSED JUNCTION WELL TYPE OF JUNCTION WELL
- PROPOSED 277/480V THREE PHASE LIGHTING CONTROL CABINET
- PROPOSED LIGHTING OR ITMS CONDUIT
- PROPOSED JUNCTION WELL
- PROPOSED METERED SERVICE CABINET
- PROPOSED WAVTRONIX DETECTOR
- PROPOSED CCTV CAMERA

ITMS CONDUIT RUN SCHEDULE

CR#	# OF CONDUITS	SIZE	LENGTH	AMOUNT AND TYPE OF CABLE/WIRE	INSTALLATION
120	1	4.0"	409'	COMM. CABLE	TRENCH
121	1	3.0"	265'	(2)*2 THWN (1) #6 GRD	TRENCH
122	1	3.0"	188'	(2)*2 THWN (1) #6 GRD	TRENCH
123	1	4.0"	58'	COMM. CABLE	BORE
124	1	4.0"	8'	COMM. CABLE	TRENCH
125	1	2.0"	13'	(2)*8 THWN (1) #6 GRD	TRENCH
125A	1	2.0"	10'	(2)*8 THWN (1) #6 GRD	TRENCH
126	1	2.0"	51'	(2)*8 THWN (1) #6 GRD	BORE
127	1	3.0"	72'	(2)*8THWN, (4)*2THWN, (3)*6GRD	BORE
127A	1	2.0"	8'	(2)*2 THWN (1) #6 GRD	TRENCH
127B	1	2.0"	8'	(2)*2 THWN (1) #6 GRD	TRENCH
128	1	3.0"	25'	(2)*8THWN, (2)*2THWN, (1)*6GRD	TRENCH
128A	1	3.0"	218'	(2)*8 THWN (1) #6 GRD	TRENCH
128B	1	4.0"	5'	COMM. CABLE	TRENCH
128C	2	3.0"	5'	(2)*8 THWN (1) #6 GRD	TRENCH
128D	1	4.0"	12'	COMM. CABLE	TRENCH
129	1	4.0"	93'	COMM. CABLE	BORE
129A	1	4.0"	244'	COMM. CABLE	TRENCH
129B	1	3.0"	318'	(2)*2 THWN (1) #6 GRD	TRENCH
129C	1	4.0"	348'	COMM. CABLE	TRENCH

LIGHTING CONDUIT RUN SCHEDULE

CR#	# OF CONDUITS	SIZE	LENGTH	AMOUNT AND TYPE OF CABLE/WIRE	INSTALLATION
23	1	3.0"	145'	(4)*4 AWG (1) #6 GND	TRENCH
24	1	3.0"	216'	(4)*4 AWG (1) #6 GND	TRENCH
25	1	3.0"	176'	(4)*4 AWG (1) #6 GND	TRENCH
26	1	3.0"	50'	(4)*4 AWG (1) #6 GND	TRENCH
27	1	3.0"	15'	(2)*4 AWG (1) #6 GND	TRENCH
28	1	3.0"	155'	(4)*4 AWG (1) #6 GND	TRENCH

LIGHTING STANDARD SCHEDULE

NO.	CIRCUIT NO.	STATION	OFFSET	ARM	LUMINAIRE MOUNTING HEIGHT	POLE BASE	LUMINAIRE
12	A5	703+82.6	27.0' RT	15'	40'	TYPE 6	250W, HPS, TYPE 2, CUTOFF
14	A3	524+79.5	22.3' LT	12'	40'	TYPE 6	250W, HPS, TYPE 2, CUTOFF
15	A5	522+63.9	24.0' LT	12'	40'	TYPE 6	250W, HPS, TYPE 2, CUTOFF
16	A1	520+63.7	24.0' LT	12'	40'	TYPE 6	250W, HPS, TYPE 2, CUTOFF
17	A3	20+64.7	101.3' LT	15'	40'	TYPE 6	250W, HPS, TYPE 2, CUTOFF