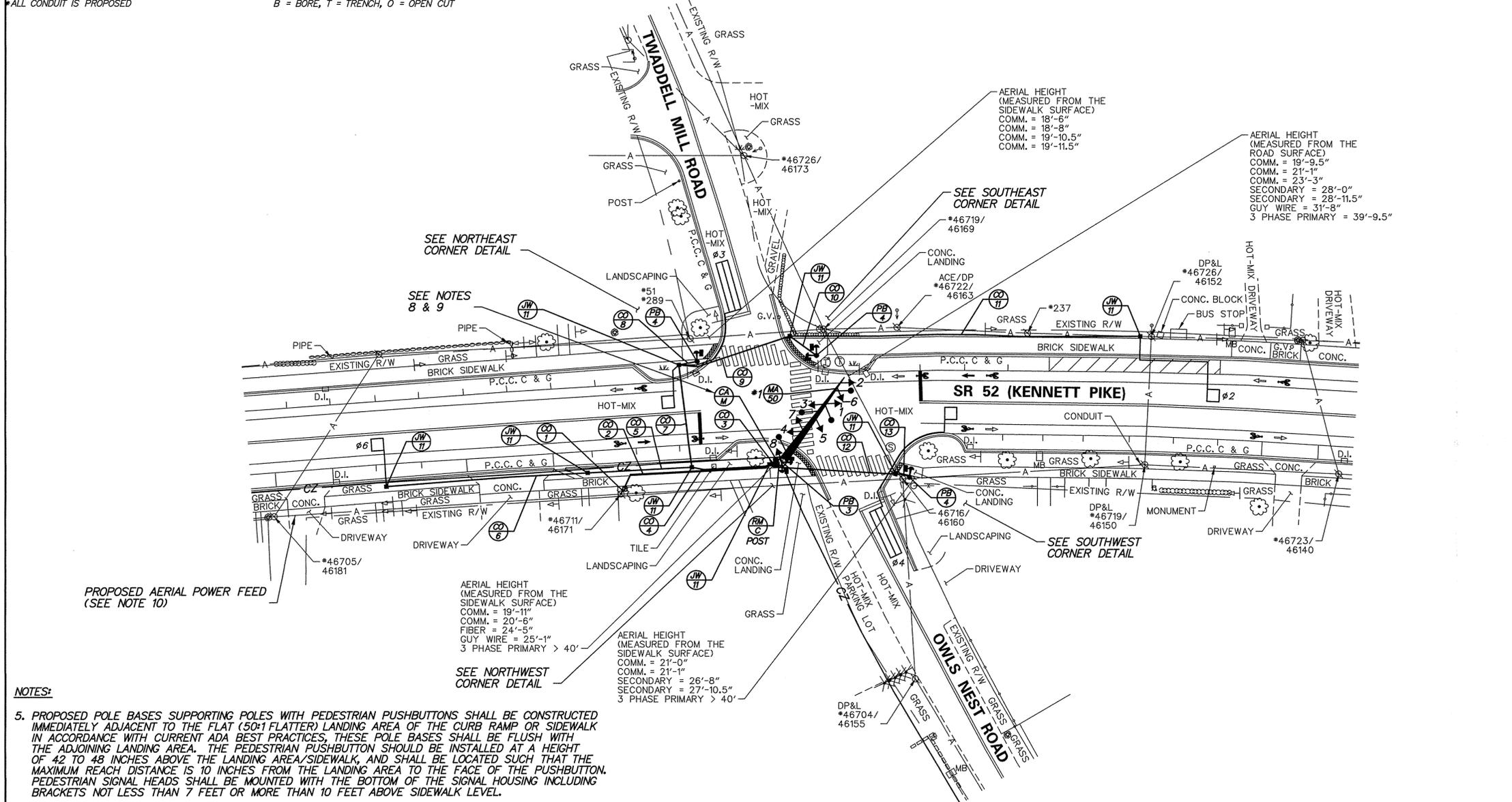


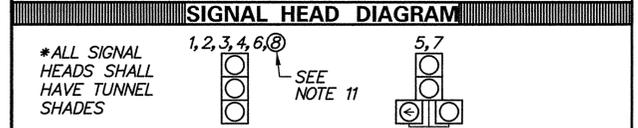
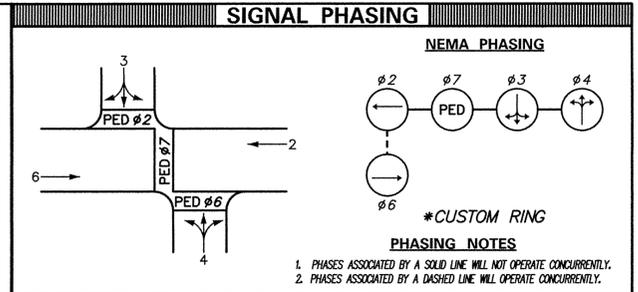
CO#	* OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
1	1	2.0 IN	3 FT	T	[NEW (1) 2/*8 U.F. W/ GROUND - LINE SIDE]
2	1	2.0 IN	77 FT	O/T	[NEW (1) 2/*8 U.F. W/ GROUND - LOAD SIDE]
3	2	3.0 IN	4 FT	T	[NEW (4) 5/*14, (6) 2/*14, (1) *6 GROUND]
4	1	4.0 IN	39 FT	T	[NEW (1) 2/*8 U.F. W/GROUND - LOAD SIDE]
5	1	4.0 IN	52 FT	T	[NEW (3) 5/*14, (4) 2/*14, (1) *6 GROUND]
6	1	4.0 IN	101 FT	B	[NEW (1) 2/*14, (1) *6 GROUND]
7	1	4.0 IN	52 FT	B	[NEW (1) 2/*14, (1) *6 GROUND]
8	1	2.5 IN	10 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]
9	1	4.0 IN	58 FT	B	[NEW (2) 5/*14, (1) 2/*14, (1) *6 GROUND]
10	1	2.5 IN	17 FT	O	[NEW (2) 5/*14, (1) *6 GROUND]
11	1	4.0 IN	175 FT	T	[NEW (1) 2/*14, (1) *6 GROUND]
12	1	4.0 IN	64 FT	B	[NEW (1) 5/*14, (2) 2/*14, (1) *6 GROUND]
13	1	2.5 IN	8 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]

MA#	HEIGHT OF POLE	LENGTH OF ARM	* OF HEADS	* OPTICOM RECEIVERS	SF OF SIGNING	ARM MOUNT HEIGHT
1	2'-6"	50 FT	7	4	-	18'-0"

*ALL CONDUIT IS PROPOSED B = BORE, T = TRENCH, O = OPEN CUT



- NOTES:**
- PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHALL BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50:1 FLATTER) LANDING AREA OF THE CURB RAMP OR SIDEWALK IN ACCORDANCE WITH CURRENT ADA BEST PRACTICES. THESE POLE BASES SHALL BE FLUSH WITH THE ADJOINING LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES ABOVE THE LANDING AREA/SIDEWALK, AND SHALL BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE IS 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSHBUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE SIDEWALK LEVEL.
 - ALL PEDESTRIAN SIGNALS SHALL CONTAIN PEDESTRIAN COUNTDOWN DISPLAYS.
 - ALL WORK PERFORMED UNDER THIS PROJECT IS INTENDED TO OCCUR WITHIN DELDOT'S EXISTING RIGHT-OF-WAY BASED ON THE NEW CASTLE COUNTY TAX PARCEL MAP.
 - THE PROPOSED CABINET, TYPE M, SHALL BE MOUNTED TO THE PROPOSED SIGNAL POLE.
 - DELDOT TRAFFIC SHALL COORDINATE THE CDMA INSTALLATION IN THE PROPOSED SIGNAL CABINET.
 - THE PROPOSED POWER FEED SHALL RUN AERIALY FROM UTILITY POLE *46705/46181 TO UTILITY POLE *46711/46171 AND CONTINUE THROUGH PROPOSED CONDUIT RUNS 1 AND 2.
 - PROPOSED SIGNAL HEAD NO. 8 SHALL BE MOUNTED TO THE PROPOSED MAST ARM UPRIGHT POLE USING A ONE-WAY SIDE POLE MOUNTING WITH THE BOTTOM OF THE SIGNAL HOUSING 10 FEET ABOVE THE FINISHED GRADE.



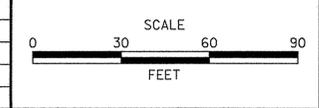
LEGEND			
	PROPOSED SIGNAL CABINET		REMOVE BY CONTRACTOR
	EXISTING SIGNAL CABINET		REMOVE BY OTHERS
	PROPOSED SIGNAL POLE BASE		ABANDON
	EXISTING SIGNAL POLE BASE		PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
	PROPOSED PEDESTRIAN POLE BASE		EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
	EXISTING PEDESTRIAN POLE BASE		PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
	PROPOSED WOOD POLE		EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
	EXISTING UTILITY POLE		PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
	PROPOSED JUNCTION WELL		EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
	EXISTING JUNCTION WELL		PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
	PROPOSED SIGNAL HEAD		EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
	EXISTING SIGNAL HEAD		PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
	PROPOSED PEDESTRIAN SIGNAL HEAD		EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
	EXISTING PEDESTRIAN SIGNAL HEAD		PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
	PROPOSED PEDESTRIAN PUSHBUTTON		EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
	EXISTING PEDESTRIAN PUSHBUTTON		PROPOSED SPAN WIRE
	PROPOSED VIDEO DETECTION		EXISTING SPAN WIRE
	EXISTING VIDEO DETECTION		RIGHT-OF-WAY OR PROPERTY LINE
	PROPOSED MICROWAVE DETECTION		PROPOSED SPAN INSULATOR
	EXISTING MICROWAVE DETECTION		EXISTING SPAN INSULATOR
	PROPOSED MAST ARM		SERVICE PEDESTAL
	EXISTING MAST ARM		
	PROPOSED LUMINAIRE		
	EXISTING LUMINAIRE		
	PROPOSED LOOP DETECTOR (TYPE 1 OR 2)		
	EXISTING LOOP DETECTOR (TYPE 1 OR 2)		

- GENERAL SIGNAL NOTES**
- PROPOSED LOOP DETECTORS:
 - TYPE #1 - 6' x 6' - TO BE INSTALLED ON THE NORTHBOUND SR 52 THROUGH MOVEMENT.
 - TYPE #1 - 6' x 6' - TO BE INSTALLED ON THE SOUTHBOUND SR 52 THROUGH MOVEMENT.
 - TYPE #2 - 6' x 25' - TO BE INSTALLED ON THE EASTBOUND OWLS NEST ROAD LEFT-TURN/RIGHT-TURN/THROUGH MOVEMENT.
 - TYPE #2 - 6' x 25' - TO BE INSTALLED ON THE WESTBOUND TWADDELL MILL ROAD LEFT-TURN/RIGHT-TURN/THROUGH MOVEMENT.
 - SYSTEM - 6' x 6' - TO BE INSTALLED ON THE NORTHBOUND AND SOUTHBOUND SR 52 RECEIVING LANES, AS SHOWN.
 - 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 UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.
 - ALL PROPOSED SIGNAL POLES SHALL BE FLUTED ORNAMENTAL DELDOT MAST ARMS.

RECOMMENDED _____ DATE: _____ RECOMMENDED _____ DATE: _____ RECOMMENDED *Mike J. Kelly* DATE: *4/27/15* APPROVED TRAFFIC ENGINEER *Thomas C. Kelly* DATE: *4/28/15* APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER *Mike Kelly* DATE: *4/24/15*



ADDENDUM / REVISIONS	



CONTRACT	PERMIT NO.	N812	SIGNAL PLAN	SHEET NO.
T201501002	DESIGNED BY: D.C.G. (WR&A)			
COUNTY	CHECKED BY: M.J.B. (WR&A)		SIGNAL PLAN	TOTAL SHTS.
NEW CASTLE			SR 52 (KENNETT PIKE) @ TWADDELL MILL ROAD/ OWLS NEST ROAD	3

CO#	* OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
1	1	2.0 IN	3 FT	T	[NEW (1) 2/*8 U.F. W/ GROUND - LINE SIDE]
2	1	2.0 IN	77 FT	O/T	[NEW (1) 2/*8 U.F. W/ GROUND - LOAD SIDE]
3	2	3.0 IN	4 FT	T	[NEW (4) 5/*14, (6) 2/*14, (1) *6 GROUND]
4	1	4.0 IN	39 FT	T	[NEW (1) 2/*8 U.F. W/ GROUND - LOAD SIDE]
5	1	4.0 IN	52 FT	T	[NEW (3) 5/*14, (4) 2/*14, (1) *6 GROUND]
6	1	4.0 IN	101 FT	B	[NEW (1) 2/*14, (1) *6 GROUND]
7	1	4.0 IN	52 FT	B	[NEW (3) 5/*14, (3) 2/*14, (1) *6 GROUND]
8	1	2.5 IN	10 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]
9	1	4.0 IN	58 FT	B	[NEW (2) 5/*14, (1) 2/*14, (1) *6 GROUND]
10	1	2.5 IN	17 FT	O	[NEW (2) 5/*14, (1) *6 GROUND]
11	1	4.0 IN	175 FT	T	[NEW (1) 2/*14, (1) *6 GROUND]
12	1	4.0 IN	64 FT	B	[NEW (1) 5/*14, (2) 2/*14, (1) *6 GROUND]
13	1	2.5 IN	8 FT	T	[NEW (1) 5/*14, (1) *6 GROUND]

*ALL CONDUIT IS PROPOSED B = BORE, T = TRENCH, O = OPEN CUT

MA#	HEIGHT OF POLE	LENGTH OF ARM	* OF HEADS	* OPTICOM RECEIVERS	SF OF SIGNING	ARM MOUNT HEIGHT
1	21'-6"	50 FT	7	4	-	18'-0"

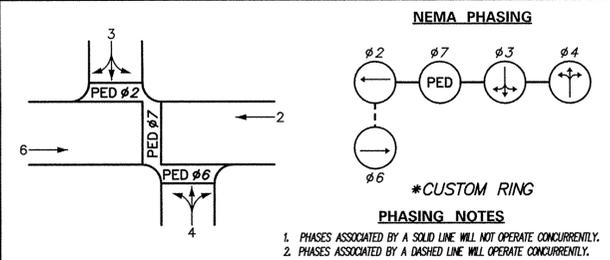
NOTES:

5. PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHALL BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50:1 FLATTER) LANDING AREA OF THE CURB RAMP OR SIDEWALK IN ACCORDANCE WITH CURRENT ADA BEST PRACTICES, THESE POLE BASES SHALL BE FLUSH WITH THE ADJOINING LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES ABOVE THE LANDING AREA/SIDEWALK, AND SHALL BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE IS 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSHBUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE SIDEWALK LEVEL.

- 6. ALL PEDESTRIAN SIGNALS SHALL CONTAIN PEDESTRIAN COUNTDOWN DISPLAYS.
- 7. ALL WORK PERFORMED UNDER THIS PROJECT IS INTENDED TO OCCUR WITHIN DELDOT'S EXISTING RIGHT-OF-WAY BASED ON THE NEW CASTLE COUNTY TAX PARCEL MAP.
- 8. THE PROPOSED CABINET, TYPE M, SHALL BE MOUNTED TO THE PROPOSED SIGNAL POLE.
- 9. DELDOT TRAFFIC SHALL COORDINATE THE CDMA INSTALLATION IN THE PROPOSED SIGNAL CABINET.
- 10. THE PROPOSED POWER FEED SHALL RUN AERIALLY FROM UTILITY POLE #46705/46181 TO UTILITY POLE #46711/46171 AND CONTINUE THROUGH PROPOSED CONDUIT RUNS 1 AND 2.
- 11. PROPOSED SIGNAL HEAD NO. 8 SHALL BE MOUNTED TO THE PROPOSED MAST ARM UPRIGHT POLE USING A ONE-WAY SIDE POLE MOUNTING WITH THE BOTTOM OF THE SIGNAL HOUSING 10 FEET ABOVE THE FINISHED GRADE.



SIGNAL PHASING



SIGNAL HEAD DIAGRAM

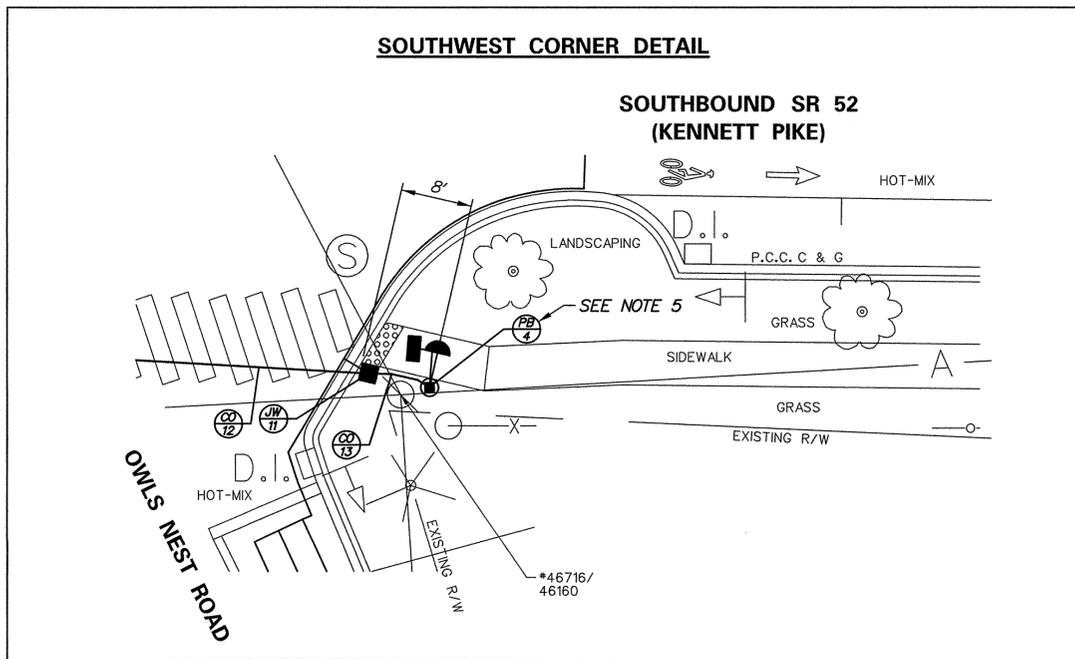
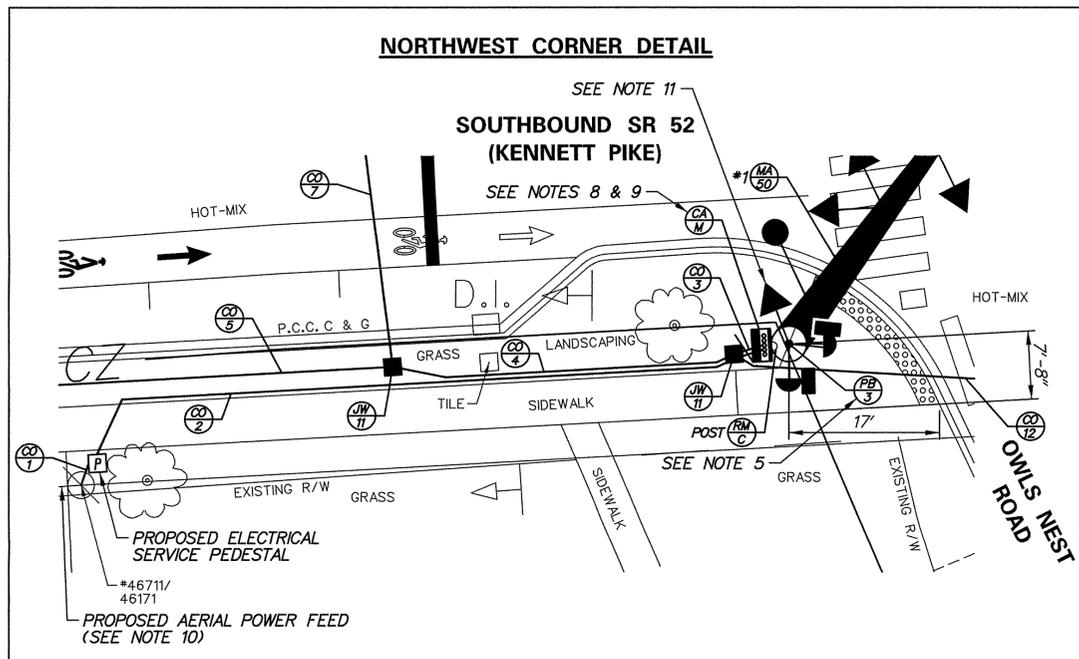
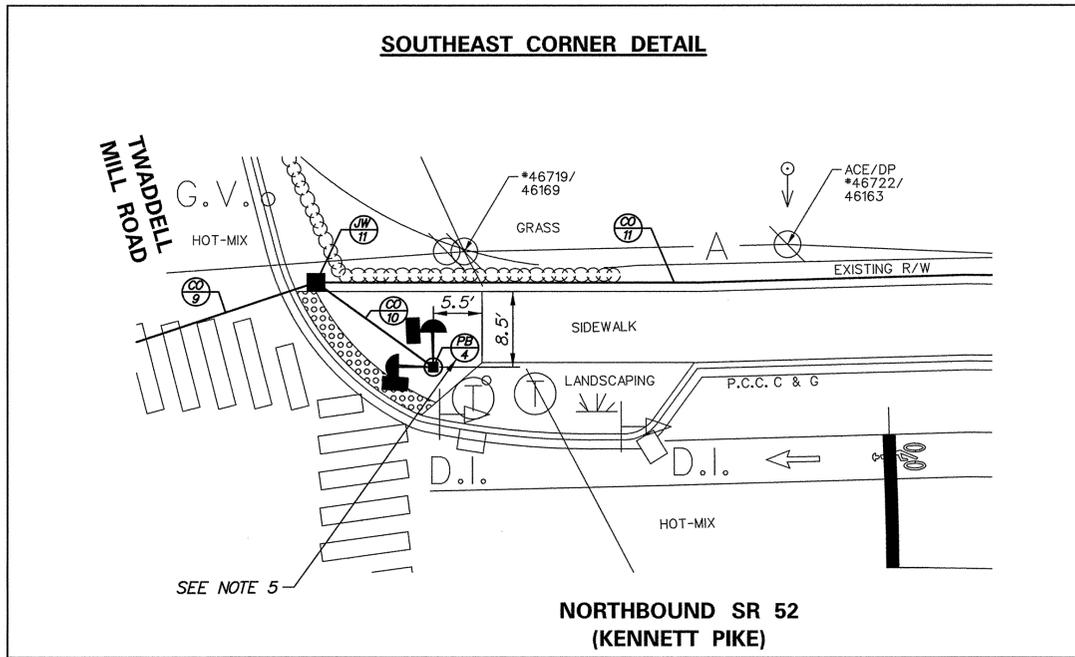
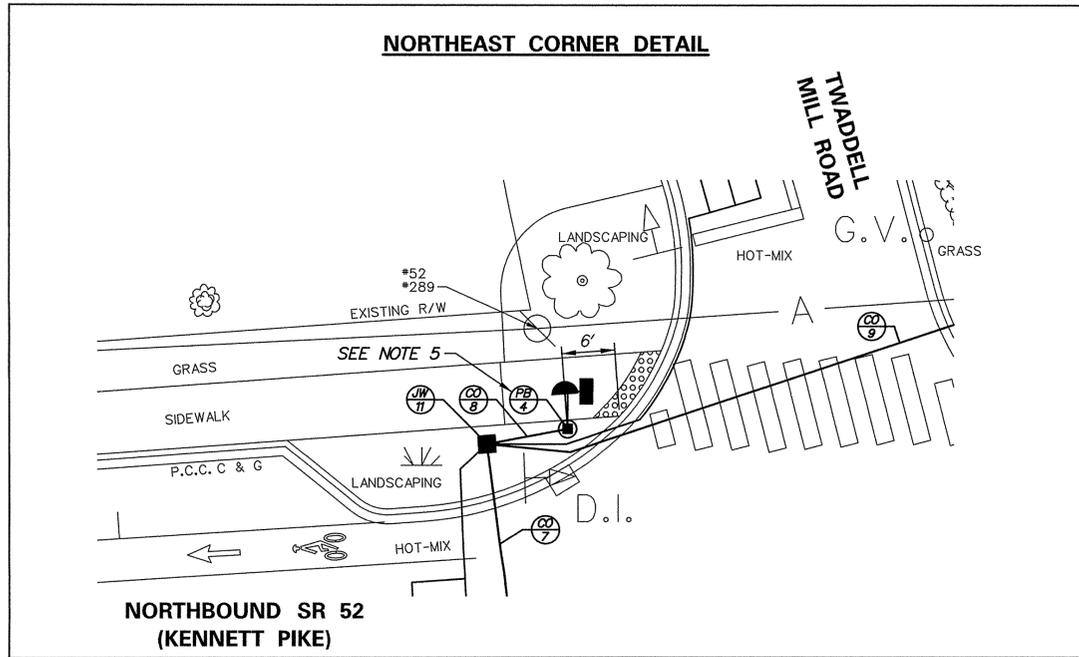


LEGEND

- PROPOSED SIGNAL CABINET (RM C) REMOVE BY CONTRACTOR
- EXISTING SIGNAL CABINET (RM O) REMOVE BY OTHERS
- PROPOSED SIGNAL POLE BASE (AB) ABANDON
- EXISTING SIGNAL POLE BASE (PB X) PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
- PROPOSED PEDESTRIAN POLE BASE (PB X) EXISTING PEDESTRIAN POLE BASE IDENTIFIER (TYPE OF POLE BASE)
- EXISTING PEDESTRIAN POLE BASE (PB X) EXISTING PEDESTRIAN POLE BASE IDENTIFIER (TYPE OF POLE BASE)
- PROPOSED WOOD POLE (JW X) PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
- EXISTING UTILITY POLE (JW X) EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
- PROPOSED JUNCTION WELL (CO X) PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
- EXISTING JUNCTION WELL (CO X) EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED SIGNAL HEAD (OH X) PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
- EXISTING SIGNAL HEAD (OH X) EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
- PROPOSED PEDESTRIAN SIGNAL HEAD (OH X) PROPOSED PEDESTRIAN SIGNAL HEAD IDENTIFIER (# OF OVERHEAD RUN)
- EXISTING PEDESTRIAN SIGNAL HEAD (OH X) EXISTING PEDESTRIAN SIGNAL HEAD IDENTIFIER (# OF OVERHEAD RUN)
- PROPOSED PEDESTRIAN PUSHBUTTON (MA XX) PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
- EXISTING PEDESTRIAN PUSHBUTTON (MA XX) EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
- PROPOSED VIDEO DETECTION (CA X) PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
- EXISTING VIDEO DETECTION (CA X) EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
- PROPOSED MICROWAVE DETECTION (CA X) PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
- EXISTING MICROWAVE DETECTION (CA X) EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
- PROPOSED SPAN WIRE (---) PROPOSED SPAN WIRE
- EXISTING SPAN WIRE (---) EXISTING SPAN WIRE
- RIGHT-OF-WAY OR PROPERTY LINE (---) RIGHT-OF-WAY OR PROPERTY LINE
- PROPOSED SPAN INSULATOR (◆) PROPOSED SPAN INSULATOR
- EXISTING SPAN INSULATOR (◆) EXISTING SPAN INSULATOR
- PROPOSED LUMINAIRE (□) PROPOSED LUMINAIRE
- EXISTING LUMINAIRE (□) EXISTING LUMINAIRE
- PROPOSED LOOP DETECTOR (TYPE 1 OR 2) (□) PROPOSED LOOP DETECTOR (TYPE 1 OR 2)
- EXISTING LOOP DETECTOR (TYPE 1 OR 2) (□) EXISTING LOOP DETECTOR (TYPE 1 OR 2)

GENERAL SIGNAL NOTES

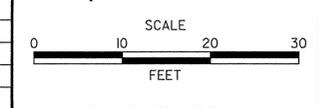
- PROPOSED LOOP DETECTORS: TYPE #1 - 6' x 6' - TO BE INSTALLED ON THE NORTHBOUND SR 52 THROUGH MOVEMENT. TYPE #2 - 6' x 6' - TO BE INSTALLED ON THE SOUTHBOUND SR 52 THROUGH MOVEMENT. TYPE #3 - 6' x 25' - TO BE INSTALLED ON THE EASTBOUND OWLS NEST ROAD LEFT-TURN/RIGHT-TURN/THROUGH MOVEMENT. TYPE #4 - 6' x 25' - TO BE INSTALLED ON THE WESTBOUND TWADDELL MILL ROAD LEFT-TURN/RIGHT-TURN/THROUGH MOVEMENT. SYSTEM - 6' x 6' - TO BE INSTALLED ON THE NORTHBOUND AND SOUTHBOUND SR 52 RECEIVING LANES, AS SHOWN.
- 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 UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.
- ALL PROPOSED SIGNAL POLES SHALL BE FLUTED ORNAMENTAL DELDOT MAST ARMS.



RECOMMENDED _____ DATE: _____ RECOMMENDED _____ DATE: _____ RECOMMENDED *Mark J. Kelly* DATE: 4/27/15 APPROVED TRAFFIC ENGINEER *Michael J. H...* DATE: 4/29/15 APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER *Michael J. H...* DATE: 4/29/15



ADDENDUM / REVISIONS



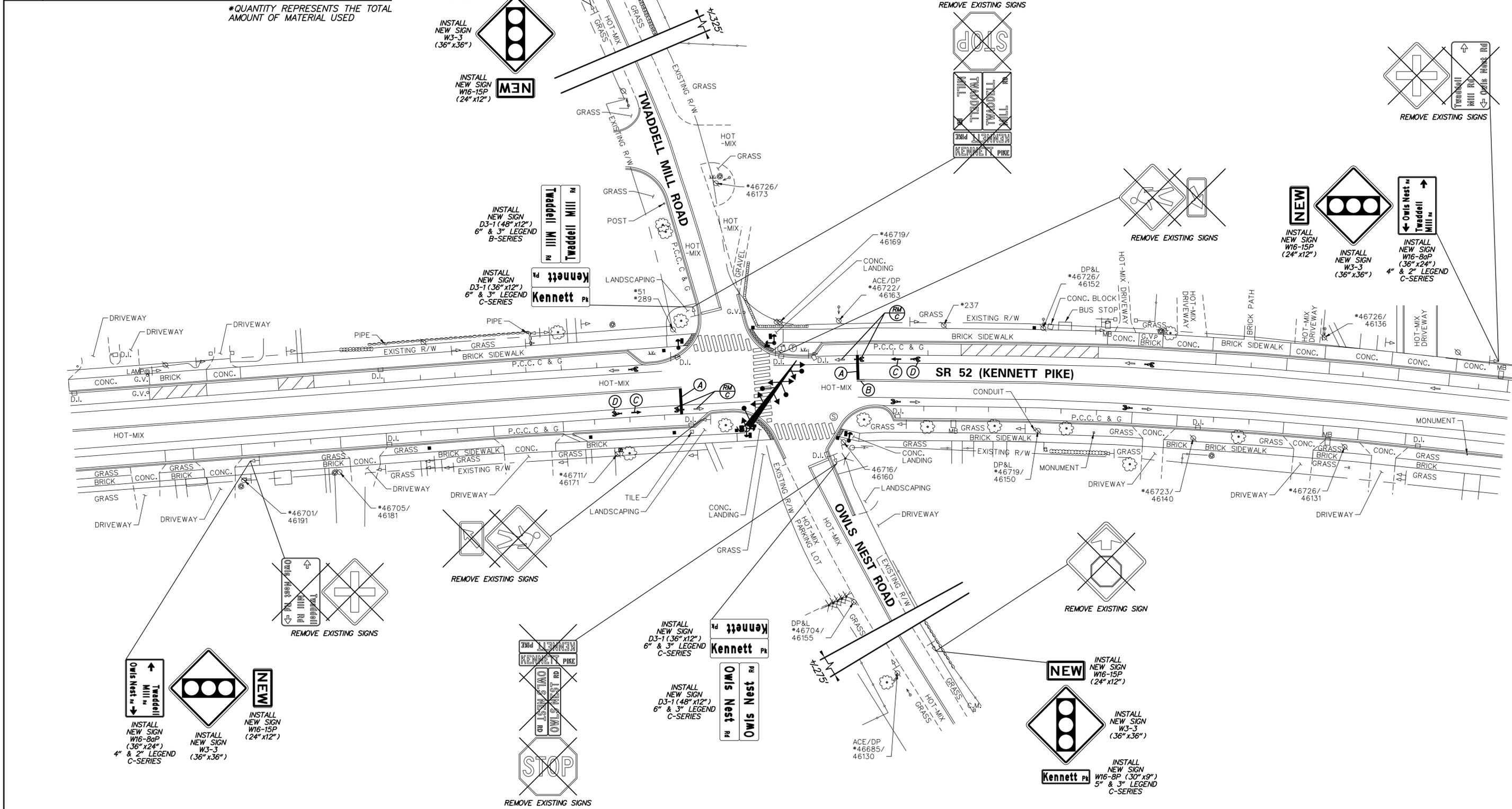
CONTRACT	PERMIT NO.	N812
T201501002	DESIGNED BY: D.C.G. (WR&A)	
NEW CASTLE	CHECKED BY: M.J.B. (WR&A)	

SIGNAL PLAN DETAILS	SHEET NO.
SR 52 (KENNETT PIKE)	2
@ TWADDELL MILL ROAD/ OWLS NEST ROAD	TOTAL SHTS. 3

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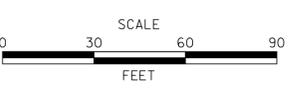
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	16" PERMANENT PAVEMENT STRIPING, SYMBOL, ALKYD-THERMOPLASTIC, WHITE (ITEM 748015)	41 SF
(B)	5" DOUBLE PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	10 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL, ALKYD-THERMOPLASTIC, WHITE (ITEM 748015)	9 SF
(D)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL (ITEM 748553)	2 EA

*QUANTITY REPRESENTS THE TOTAL AMOUNT OF MATERIAL USED



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ADDENDUMS / REVISIONS



SR 52 (KENNETT PIKE)
@ TWADDELL MILL ROAD/
OWLS NEST ROAD

CONTRACT	T201501002	PERMIT NO.	N812
COUNTY	NEW CASTLE	DESIGNED BY:	D.C.G. (WR&A)
		CHECKED BY:	M.J.B. (WR&A)

SIGNING AND STRIPING PLAN

SS01
SHEET NO.
3
TOTAL SHTS.
3