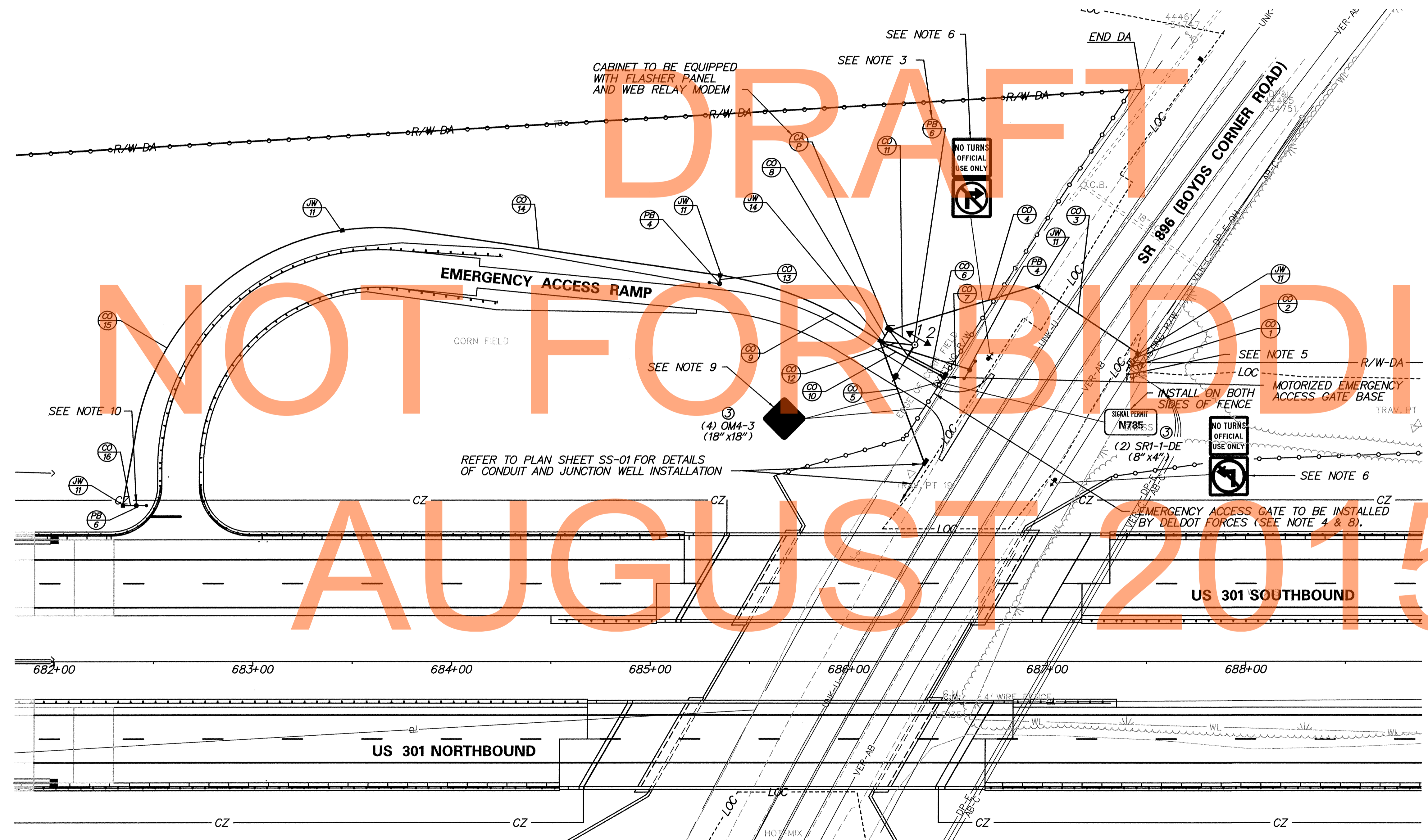
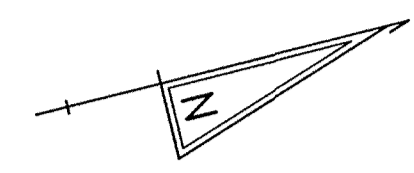


CO#	* OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE (SUPPLY AND INSTALLATION BY DELDOT FORCES)
1*	1	2.0 IN**	4 FT	T	(1) 2/*8 U.F.W./ GROUND
2*	1	2.0 IN**	4 FT	T	(1) 2/*8 U.F.W./ GROUND
3	1	2.5 IN**	59 FT	B	(1) 2/*8 U.F.W./ GROUND
4	1	2.0 IN**	76 FT	T	(1) 2/*8 U.F.W./ GROUND
5	1	4.0 IN***	63 FT	B	COMMUNICATION CABLE
6	1	3.0 IN	35 FT	T	(1) 2/*8 U.F.W./ GROUND
7	1	2.5 IN	43 FT	T	(2) 4/*18, (1)*6 GROUND
8	2	4.0 IN	6 FT	T	(1) 9/*14, (4) 4/*18, (1)*6 GROUND
9	1	4.0 IN	6 FT	T	(2) COMMUNICATION CABLES
10	1	4.0 IN	86 FT	T	(2) 4/*18, (1)*6 GROUND
11	1	3.0 IN	34 FT	T	COMMUNICATION CABLE
12	1	3.0 IN	12 FT	T	(1) 2/*8 U.F.W./ GROUND
13	1	3.0 IN	14 FT	T	(1) 9/*14, (1)*6 GROUND
14	1	2.5 IN	3 FT	T	(1) 4/*18, (1)*6 GROUND
15	1	4.0 IN	191 FT	T	(1) 4/*18, (1)*6 GROUND
16	1	4.0 IN	191 FT	T	(1) 4/*18, (1)*6 GROUND

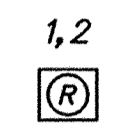
*DENOTES CONDUIT INSTALLED BY DELDOT FORCES B = BORE, T = TRENCH, O = OPEN CUT
 **RIGID GALVANIZED STEEL CONDUIT
 ***HDPE CONDUIT

- NOTES:**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND REMOVAL OF ALL UNDERGROUND SIGNAL EQUIPMENT - E.G., JUNCTION WELLS, CABINET AND POLE BASES, AND CONDUIT. DELDOT'S TRAFFIC CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL ELECTRICAL CABLES AND ABOVE GROUND EQUIPMENT - E.G., SIGNAL HEADS, OPTICOM RECEIVERS, SERVICE PEDESTAL, POLES, CABINET AND EMERGENCY GATE.
 - 30' ALUMINUM LIGHT POLE WITH 12' BRACKET ARM AND 250 WATT HIGH PRESSURE SODIUM LUMINAIRE. THE CONTRACTOR SHALL FURNISH AND INSTALL THE LIGHT POLE AND LUMINAIRE. DELDOT FORCES TO COMPLETE ELECTRICAL WIRING.
 - THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE RIGHT OF WAY FENCING WITH THE INSTALLATION OF THE EMERGENCY ACCESS GATE BY DELDOT FORCES.
 - THE CONTRACTOR SHALL COORDINATE EXACT SERVICE LOCATION WITH DELMARVA POWER PENDING UTILITY RELOCATION DESIGN. DELMARVA POWER HAS CONFIRMED AVAILABILITY OF SERVICE IN AREA.
 - REFER TO PLAN SHEET SS-01 FOR DETAILS OF SIGN INSTALLATION.
 - ALL CONDUITS SHALL BE SCHEDULE 80, RIGID POLYVINYL CHLORIDE UNLESS OTHERWISE NOTED.
 - THE EMERGENCY GATE SHALL BE INSTALLED WITH RETROREFLECTIVE SHEETING ON BOTH SIDES WITH ALTERNATING RED AND WHITE VERTICAL STRIPES AT 16 INCH INTERVALS.
 - OBJECT MARKERS SHALL BE INSTALLED ON BOTH SIDES OF GATE ON BOTH SIDES OF DRIVEWAY.
 - PROPOSED OPTICOM ON 25 FOOT STEEL POLE WITH BREAKAWAY TRANSFORMER BASE (BY DELDOT FORCES).



SIGNAL PHASING

SIGNAL HEAD DIAGRAM



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 PEDESTRIAN SIGNAL HEAD | ⊖ EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN) |
| ⊙ EXISTING PEDESTRIAN SIGNAL HEAD | ⊖ PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM) |
| ⊙ PROPOSED PEDESTRIAN PUSHBUTTON | ⊖ EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM) |
| ⊙ EXISTING PEDESTRIAN PUSHBUTTON | ⊖ PROPOSED CABINET IDENTIFIER (TYPE OF CABINET) |
| ⊙ PROPOSED VIDEO DETECTION | ⊖ EXISTING CABINET IDENTIFIER (TYPE OF CABINET) |
| ⊙ EXISTING VIDEO DETECTION | ⊖ PROPOSED SPAN WIRE |
| ⊙ PROPOSED MICROWAVE DETECTION | ⊖ EXISTING SPAN WIRE |
| ⊙ EXISTING MICROWAVE DETECTION | ⊖ RIGHT-OF-WAY OR PROPERTY LINE |
| ⊙ PROPOSED OPTICOM RECEIVER | ⊖ PROPOSED SPAN INSULATOR |
| ⊙ EXISTING OPTICOM RECEIVER | ⊖ EXISTING SPAN INSULATOR |
| ⊙ PROPOSED MAST ARM | ⊖ SERVICE PEDESTAL |
| ⊙ EXISTING MAST ARM | |
| ⊙ PROPOSED LUMINAIRE | |
| ⊙ EXISTING LUMINAIRE | |
| ⊙ PROPOSED LOOP DETECTOR (TYPE TOR 2) | |
| ⊙ EXISTING LOOP DETECTOR (TYPE TOR 2) | |

GENERAL SIGNAL NOTES

1. 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.

RECOMMENDED _____ DATE: 5.5.15

RECOMMENDED _____ DATE: _____

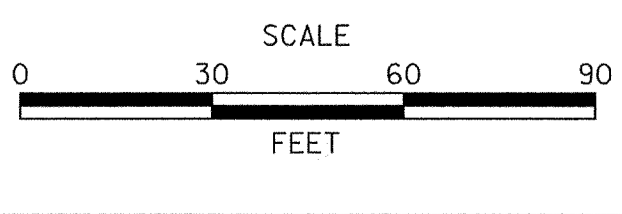
RECOMMENDED _____ DATE: _____

APPROVED TRAFFIC ENGINEER _____ DATE: 5/5/15

APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER _____ DATE: 5/6/15



ADDENDUM / REVISIONS



US 301, SR 896 TO SR 1

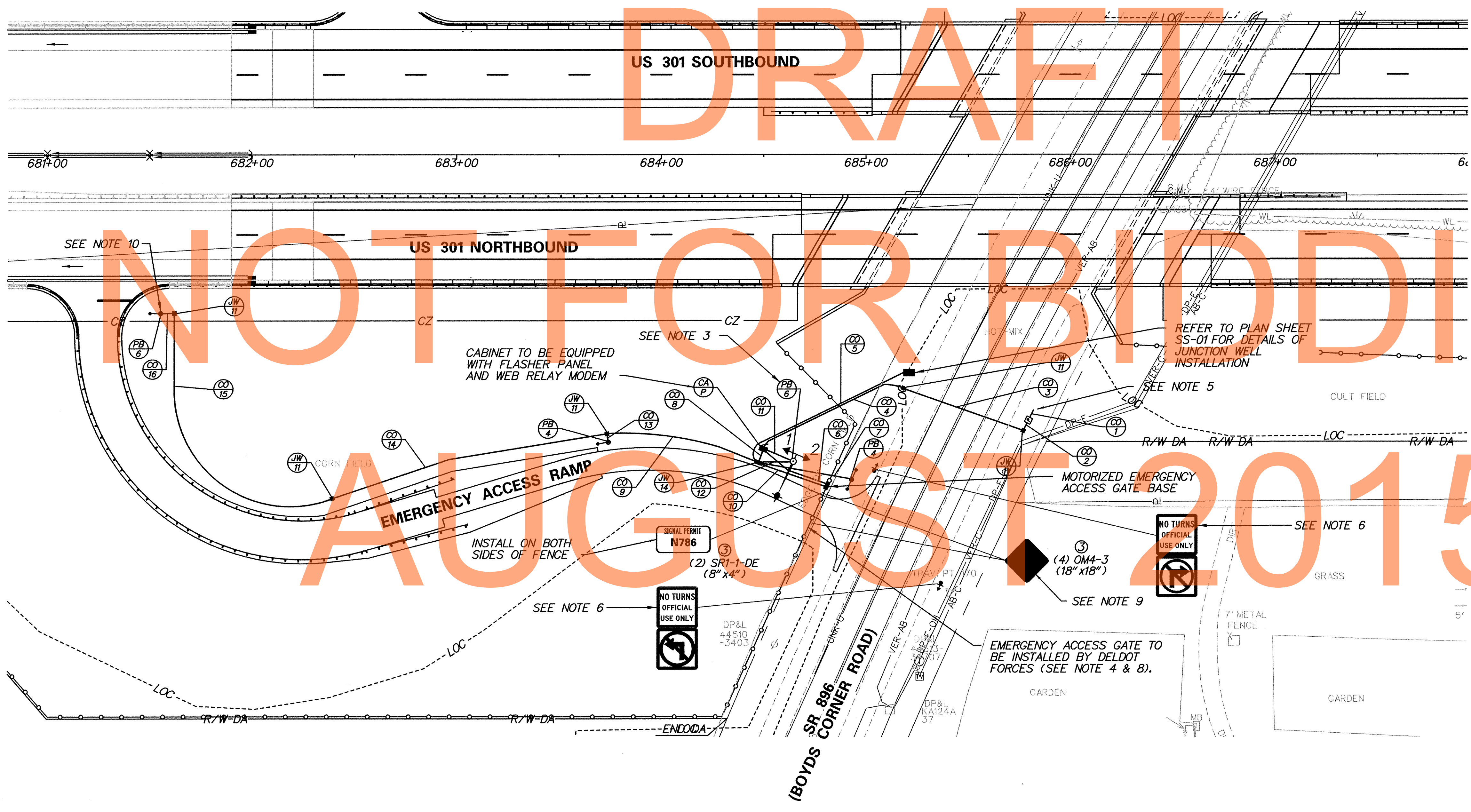
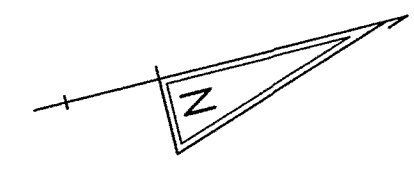
CONTRACT T200911308	PERMIT NO. N785	SHEET NO. 831
COUNTY NEW CASTLE	DESIGNED BY: J.D.C. (WR&A)	TOTAL SHTS. 868
CHECKED BY: J.M.M. (WR&A)	SG-01: US 301 SOUTHBOUND EMERGENCY ACCESS GATE	

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CONDUIT RUN SCHEDULE					
CO#	* OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE (SUPPLY AND INSTALLATION BY DELDOT FORCES)
1*	1	2.0 IN**	4 FT	T	(1) 2/*8 U.F.W./ GROUND
2*	1	2.0 IN**	5 FT	T	(1) 2/*8 U.F.W./ GROUND
3	1	2.5 IN**	61 FT	B	(1) 2/*8 U.F.W./ GROUND
4	1	2.0 IN**	76 FT	T	(1) 2/*8 U.F.W./ GROUND
5	1	4.0 IN	88 FT	T	COMMUNICATION CABLE
6	1	3.0 IN	34 FT	T	(1) 2/*8 U.F.W./ GROUND
7	1	2.5 IN	41 FT	T	(2) 4/*18, (1)*6 GROUND
8	2	4.0 IN	5 FT	T	(1) 9/*14, (4) 4/*18, (1)*6 GROUND
9	1	4.0 IN	5 FT	T	(2) COMMUNICATION CABLES
10	1	4.0 IN	74 FT	T	(2) 4/*18, (1)*6 GROUND
11	1	3.0 IN	33 FT	T	COMMUNICATION CABLE
12	1	3.0 IN	13 FT	T	(1) 2/*8 U.F.W./ GROUND
13	1	3.0 IN	14 FT	T	(1) 9/*14, (1)*6 GROUND
14	1	2.5 IN	3 FT	T	(1) 4/*18, (1)*6 GROUND
15	1	4.0 IN	137 FT	T	(1) 4/*18, (1)*6 GROUND
16	1	4.0 IN	146 FT	T	(1) 4/*18, (1)*6 GROUND
16	1	3.0 IN	5 FT	T	(1) 4/*18, (1)*6 GROUND

*DENOTES CONDUIT INSTALLED BY DELDOT FORCES B = BORE, T = TRENCH, O = OPEN CUT
 **RIGID GALVANIZED STEEL
 ***HDPE CONDUIT

- NOTES:**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND REMOVAL OF ALL UNDERGROUND SIGNAL EQUIPMENT - E.G., JUNCTION WELLS, CABINET AND POLE BASES, AND CONDUIT. DELDOT'S TRAFFIC CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL ELECTRICAL CABLES AND ABOVE GROUND EQUIPMENT - E.G., SIGNAL HEADS, OPTICOM RECEIVERS, SERVICE PEDESTAL, POLES, CABINET AND EMERGENCY GATE.
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 - OBJECT MARKERS SHALL BE INSTALLED ON BOTH SIDES OF GATE ON BOTH SIDES OF DRIVEWAY.
 - PROPOSED OPTICOM ON 25 FOOT STEEL POLE WITH BREAKAWAY TRANSFORMER BASE (BY DELDOT FORCES).



SIGNAL PHASING	
1, 2 Ⓡ	

LEGEND			
■	PROPOSED SIGNAL CABINET	Ⓡ	REMOVE BY CONTRACTOR
□	EXISTING SIGNAL CABINET	Ⓡ	REMOVE BY OTHERS
○	PROPOSED SIGNAL POLE BASE	AB	ABANDON
⊙	EXISTING SIGNAL POLE BASE	AB	ABANDON
⊙	PROPOSED PEDESTRIAN POLE BASE	PB X	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
⊙	EXISTING PEDESTRIAN POLE BASE	PB X	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
⊙	PROPOSED WOOD POLE	JWB X	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
⊙	EXISTING UTILITY POLE	JWB X	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
⊙	PROPOSED JUNCTION WELL	JWB X	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
J.W.	EXISTING JUNCTION WELL	CO	PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)
→	PROPOSED SIGNAL HEAD	CO	EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)
→	EXISTING SIGNAL HEAD	OH	PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
→	PROPOSED PEDESTRIAN SIGNAL HEAD	OH	EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
→	EXISTING PEDESTRIAN SIGNAL HEAD	OH	EXISTING OVERHEAD RUN 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	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
→	EXISTING MICROWAVE DETECTION	CA X	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
→	PROPOSED SPAN WIRE	XX	EXISTING SPAN WIRE
→	OVERHEAD SIGNING	XX	EXISTING SPAN WIRE
→	PROPOSED OPTICOM RECEIVER	---	RIGHT-OF-WAY OR PROPERTY LINE
→	EXISTING OPTICOM RECEIVER	---	RIGHT-OF-WAY OR PROPERTY LINE
→	PROPOSED MAST ARM	◆	PROPOSED SPAN INSULATOR
→	EXISTING MAST ARM	◆	EXISTING SPAN INSULATOR
→	PROPOSED LUMINAIRE	□	SERVICE PEDESTAL
→	EXISTING LUMINAIRE	□	SERVICE PEDESTAL
→	PROPOSED LOOP DETECTOR (TYPE 1 OR 2)	---	
→	EXISTING LOOP DETECTOR (TYPE 1 OR 2)	---	

GENERAL SIGNAL NOTES

1. 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.

RECOMMENDED DATE: 5.5.15	RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	APPROVED TRAFFIC ENGINEER DATE: 5/15	APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER DATE: 5/16/15
ADDENDUM / REVISIONS			SCALE 0 30 60 90 FEET	
 DELAWARE DEPARTMENT OF TRANSPORTATION		US 301, SR 896 TO SR 1		CONTRACT T200911308 COUNTY NEW CASTLE PERMIT NO. N786 DESIGNED BY: J.D.C. (WR&A) CHECKED BY: J.M.M. (WR&A)
			SG-02: US 301 NORTHBOUND EMERGENCY ACCESS GATE	
			SHEET NO. 832 TOTAL SHTS. 868	

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