

LEGEND

	LST	LIGHTING STANDARD IDENTIFIER (BY OTHERS AND PROPOSED)
	LSR	LIGHTING SERVICE RUN IDENTIFIER (BY OTHERS AND PROPOSED)
	JW	JUNCTION WELL & TYPE (EXISTING AND PROPOSED)
	WP	UNDERPASS WALL LIGHTER (EXISTING AND PROPOSED)
		EXISTING LIGHTING STANDARD
		PROPOSED COBRAHEAD LUMINAIRE, SINGLE DAVIT ARM (BY OTHERS)
		PROPOSED COBRAHEAD LUMINAIRE, SINGLE DAVIT ARM
	P	PROPOSED METERED SERVICE PEDESTAL
		PROPOSED WALL LIGHTER - TYPE 'WP' FIXTURES ON BRIDGE WALL
	LC-XX	PROPOSED LIGHTING CONTROL CABINET
	LC-XX	EXISTING LIGHTING CONTROL CABINET
		PROPOSED DISCONNECT SWITCH
	DOT-E1	PROPOSED LIGHTING CONDUIT
	DOT-E	ITMS/TOLL GANTRY POWER CONDUIT (BY OTHERS)
	DOT-E1	LIGHTING CONDUIT (BY OTHERS)
		PROPOSED GROUND ROD
	J.W.	EXISTING JUNCTION WELL
	J.W.	PROPOSED JUNCTION WELL
	J.B.	PROPOSED STRUCTURE MOUNTED JUNCTION BOX
	RM O	REMOVE BY OTHERS
	RM C	REMOVE BY CONTRACTOR
	RL C	RELOCATE BY CONTRACTOR
	AB	ABANDON
		FUTURE POWER POLE (BY OTHERS)
		EXISTING POLE AS INDICATED
		FUTURE POLE MOUNTED TRANSFORMER (BY OTHERS)

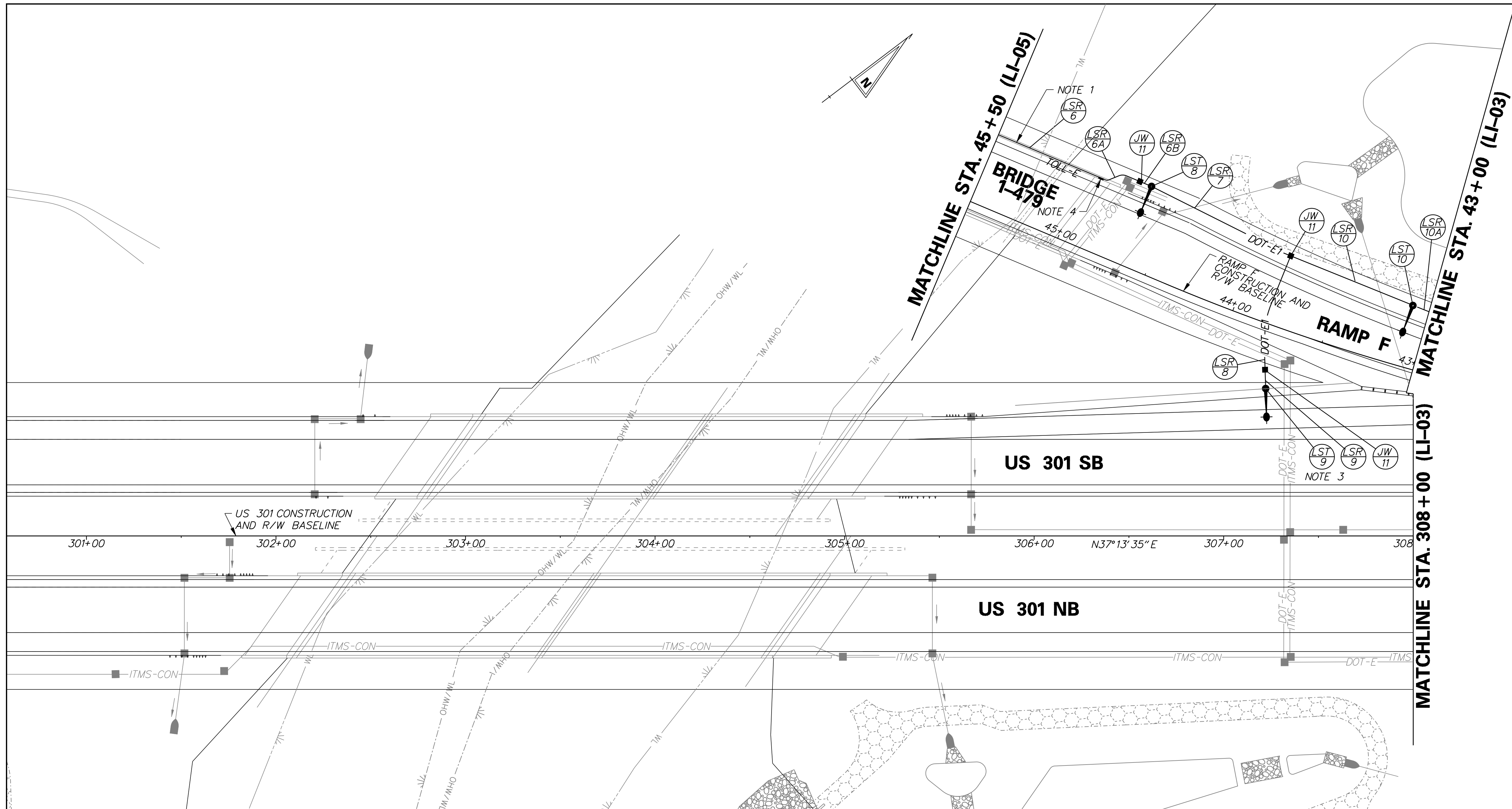
GENERAL NOTES (LIGHTING)

- THIS CONTRACT (T200911303) INCLUDES ROADWAY LIGHTING ASSOCIATED WITH THE CONSTRUCTION OF SECTION 2 OF US 301 BETWEEN NORTH OF LEVELS ROAD AND EAST OF NORFOLK SOUTHERN RAILROAD INCLUDING RAMPS, ROUNDABOUTS AND CONNECTOR ROAD TO SUMMIT BRIDGE ROAD. FOR SPUR ROAD RAMPS, THE LIGHTING POLES DIRECT BURIED CONDUITS AND CONDUCTORS WILL BE INSTALLED UNDER CONTRACT T200911307. THE SERVICE DROP LIGHT DISTRIBUTION CABINET AND UNDERGROUND CONDUITS UNDER US 301 PAVEMENT WILL BE UNDER THIS CONTRACT. COMPLEX INTERSECTION LIGHTING AT EXISTING ARMSTRONG CORNER/MARL PIT ROAD AND PROPOSED CONNECTOR ROAD WILL BE DONE UNDER SEPERATE CONTRACT, T201011301.
- ALL ELECTRICAL WORK SHALL BE PERFORMED AND ALL MATERIAL PROVIDED SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, TO ALL LOCAL AND SPECIAL LAWS, AND/OR TO ORDINANCES GOVERNING SUCH MATERIAL. CODE SHALL BE CONSIDERED THE MINIMUM REQUIREMENTS FOR THE ELECTRICAL WORK AND IF THERE IS A CONFLICT BETWEEN THE REQUIREMENTS SPECIFIED IN THE CONTRACT DOCUMENTS AND THE CODE, THE MORE STRINGENT REQUIREMENT WILL APPLY AS DETERMINED AND APPROVED BY THE ENGINEER. WHEN THESE REQUIREMENTS DO NOT GOVERN, AND WHERE NOT OTHERWISE SPECIFIED, ELECTRICAL MATERIALS SHALL CONFORM TO THE STANDARDIZATION RULES OF THE INSTITUTE OF ELECTRICAL ENGINEERS.
- THE CONTRACTOR SHALL PROVIDE AND SECURE ALL ELECTRICAL INSPECTIONS AS REQUIRED AND PAY FOR THE SAME. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AT HIS EXPENSE ALL NECESSARY PERMITS AND CERTIFICATES AS REQUIRED.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL THE CONTRACTORS INVOLVED ON THIS PROJECT. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND THE GENERAL SUPERINTENDENT THE LOCATIONS OF ALL CONDUIT, HANDHOLES, POLE BASES, LIGHTING DISTRIBUTION CABINETS, ETC. TO ELIMINATE CONSTRUCTION CONFLICTS.
- BURIED ELECTRICAL CABLE AND CONDUIT, AND OTHER UTILITIES MAY EXIST THROUGHOUT THIS PROJECT. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PREVENTING DAMAGE TO THEM, AND MAINTAINING THEM IN SERVICE WHEN AND WHERE REQUIRED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BY HAND EXCAVATION PRIOR TO TRENCHING BY MACHINE.
- THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK MATERIAL AND LABOR TO BE FREE FROM DEFECTS FOR A ONE YEAR PERIOD FROM THE TIME OF OWNER ACCEPTANCE. ANY DEFECTS OCCURRING DURING THIS PERIOD SHALL BE CORRECTED BY THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONDUIT RUNS AND JUNCTION WELLS ARE SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL LOCATE THE CONDUIT RUNS AND INSTALL JUNCTION WELLS IN A MANNER THAT AVOIDS CONFLICTS WITH ALL EXISTING AND PROPOSED FEATURES AS FIELD CONDITIONS DICTATE AND AS APPROVED BY THE ENGINEER.
- COLOR CODING SHALL BE PROVIDED THROUGHOUT THE ENTIRE NETWORK FOR SERVICE, FEEDER, BRANCH AND CONTROL CONDUCTORS. EACH PHASE SHALL BE AN INDEPENDENT COLOR. CONDUCTORS SHALL HAVE FACTORY IMPREGNATED COLOR THROUGHOUT THEIR ENTIRE LENGTH. PHASE TAPING IS NOT PERMITTED.
- THE CONTRACTOR SHALL NOTIFY DELMARVA POWER TWO WEEKS IN ADVANCE TO ARRANGE FINAL POWER CONNECTIONS.
- ALL FUSED CONNECTIONS SHALL BE MADE IN THE POLE BASE. SPLICES IN JUNCTION BOXES PULL BOXES SHALL NOT BE FUSED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT SITE PRIOR TO WORK.
- WORK INCLUDES FURNISHING LABOR, MATERIAL, EQUIPMENT AND SERVICE NECESSARY AND INCIDENTAL TO PROPER COMPLETION OF THE ELECTRICAL WORK AS SHOWN. MINOR ITEMS, ACCESSORIES OR DEVICES NECESSARY FOR COMPLETION AND PROPER OPERATION OF ANY SYSTEM SHALL BE PROVIDED WHETHER OR NOT THEY ARE SPECIFICALLY CALLED FOR BY SPECIFICATIONS OR DRAWINGS.
- ALL CONDUITS, JUNCTION WELLS, LIGHTING STANDARDS, ETC. SHALL BE STAKED OUT AND EVERY LOCATION APPROVED BY THE ENGINEER BEFORE ANY WORK IS DONE.
- ALL STATION, OFFSET AND DIMENSION INFORMATION SHOWN FOR PROPOSED LIGHTING STANDARDS IS TO THE CENTER OF THE POLE BASE.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF LIGHTING CONDUITS WITH ITMS AND TOLL BOOTH POWER/COMMUNICATION CONDUITS. TOLL BOOTH/ITMS AND LIGHTING CONDUITS MAY SHARE A COMMON TRENCH BUT SHALL NOT SHARE COMMON JUNCTION WELLS.
- ELECTRICAL CABLES SHALL BE REMOVED FROM ALL CONDUITS DESIGNATED TO BE ABANDONED. ABANDONED CONDUITS SHALL BE CUT A MINIMUM OF ONE FOOT BELOW FINISHED GRADE AND SHALL BE CAPPED AT BOTH ENDS.
- EXISTING ROADWAY LIGHTING CONDUITS AND CABLES SHALL REMAIN UNLESS NOTED OTHERWISE ON THE PLANS.
- SPLICES FOR ALL ROADWAY LIGHTING ELECTRICAL CABLES, INCLUDING RE-CONNECTION OF EXISTING IMPACTED ELECTRICAL CABLES, SHALL BE COMPLETED USING APPROVED SPLICE KITS OR METHODS APPROVED BY THE ENGINEER AND SHALL BE INCIDENTAL TO THE SUPPLY AND INSTALLATION OF VARIOUS ROADWAY LIGHTING ELECTRICAL CABLES.
- ALL PROPOSED DAVIT ARM LIGHTING STANDARDS SHALL BE INSTALLED WITH BREAKAWAY TRANSFORMER BASES, WHETHER PROTECTED OR UNPROTECTED, UNLESS OTHERWISE NOTED.
- PAYMENT FOR REMOVAL OF EXISTING JUNCTION WELLS SHALL BE MADE UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
- PAYMENT FOR RELOCATION OF EXISTING LIGHT POLES AND ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE MADE UNDER ITEM 746509.
- UNDERGROUND CONDUITS SHALL BE SLOPED TO DRAIN TO THE NEAREST JUNCTION WELL. IF THIS CANNOT BE ACCOMPLISHED, PROVIDE A DRAINAGE TEE AT LOW POINT OF CONDUIT RUN. THE COST OF THIS WILL BE INCIDENTAL TO THE CONDUIT PAY ITEM.
- ALL GROUNDING CONDUCTORS IN PROPOSED UNDERGROUND CONDUITS SHALL BE INSULATED STRANDED COPPER WITH SIZE AS NOTED IN LIGHTING SERVICE SCHEDULE.
- THE CONTRACTOR SHALL VERIFY THE OPERATING VOLTAGE OF ALL CIRCUITS OF THE EXISTING LIGHTING SYSTEMS THAT ARE BEING TIED INTO TO ENSURE COMPATIBILITY WITH PROPOSED LUMINAIRES.
- ALL PROPOSED ROADWAY LIGHTING CONDUITS (SERVICE RUNS) SHALL BE RIGID GALVANIZED STEEL AND/OR PVC SCHEDULE 80 AS SHOWN ON PLAN SHEETS. WHEREVER EMPTY CONDUITS ARE SHOWN FOR FUTURE USE, PROVIDE NYLON ROPE PULL STRINGS.
- ALL PROPOSED LIGHTING STANDARDS SHALL BE INSTALLED ON POLE BASES FOR A THIRTY (30) OR FORTY (40) FOOT NOMINAL MOUNTING HEIGHT AS INDICATED IN THE LIGHTING STANDARD SCHEDULE AND AS NOTED IN DETAILS.
- PROVIDE ADDITIONAL LENGTH OF GROUND WIRE (MAX. 10') AT EACH JUNCTION WELL FOR POTENTIAL GROUNDING/BONDING PURPOSES.
- ALL LIGHTING CONTROL CENTER PANELBOARDS SHALL HAVE BOLT-IN CIRCUIT BREAKERS.
- PRIOR TO ROADWAY CONSTRUCTION LIGHTING CONTRACTOR SHALL COORDINATE CONDUIT INSTALLATION UNDER PROPOSED ROADWAY VIA TRENCHING METHOD WITH GENERAL CONTRACTOR.
- ALL EXPOSED CONDUITS FROM GRADE TO EQUIPMENT/ALONG POLE WILL BE RGS. ALL UNDERGROUND CONDUIT WILL BE PVC SCHEDULE 80, UNLESS NOTED OTHERWISE. PROVIDE RGS BENDS AS REQUIRED WHEN TRANSITIONING FROM UNDERGROUND TO EXPOSED.

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8/22/2015

Steve Lambert



LIGHTING STANDARD SCHEDULE

NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-8	LR-SB CCT#5	44+65.00 B/L RAMP F	44.50' RT	40	15	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-9	LR-SB CCT#1	43+70.00 B/L RAMP F	32.66' LT	40	15	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-10	LR-SB CCT#3	43+09.33 B/L RAMP F	32.75' RT	40	15	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS

LIGHTING SERVICE SCHEDULE

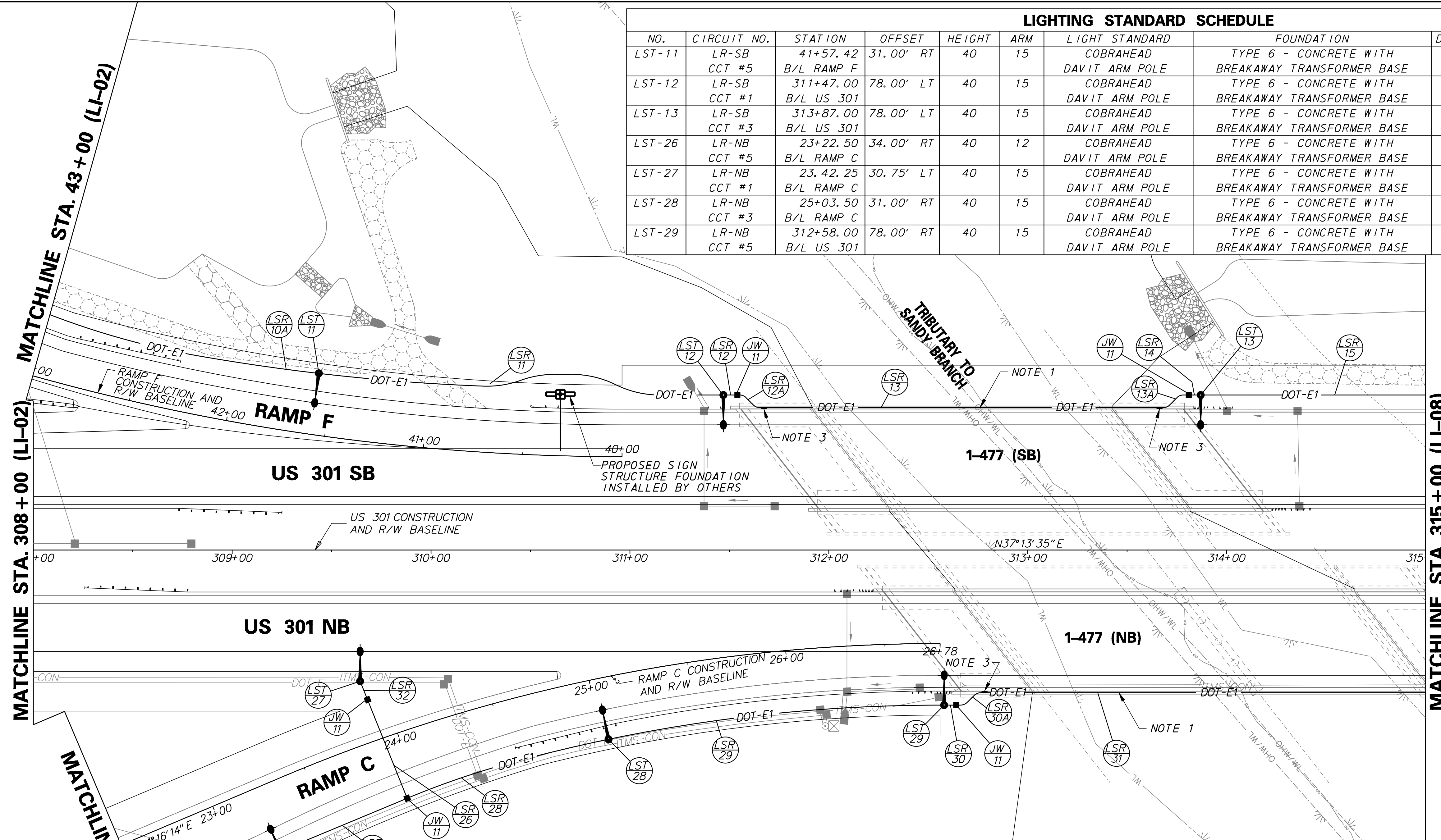
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
**LSR-6	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	BRIDGE BARRIER	
LSR-6A	35	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRANSITION - BRIDGE BARRIER TO JW	LTG CCT FROM DISTRIBUTION CABINET LR-SB
LSR-7	83	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
LSR-8	63	2 (ONE SPARE)	3" PVC	(2)#6, (1)#6 GROUND (CCT 1)	TRENCH (PROPOSED PAVEMENT)	
LSR-9	10	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 1)	TRENCH	
LSR-10	70	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
*LSR-10A	150	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	

* CONTINUED TO DWG. LI-03
 ** CONTINUED FROM DWG. LI-05, LSR DISTANCE SHOWN ON LI-05

NOTES:

- LIGHTING SERVICE RUN THROUGH BRIDGE BARRIER. REFER TO LI-30 AND BRIDGE 1-479 DRAWINGS FOR CONDUIT AND BARRIER DETAILS. EMPTY CONDUITS WITH PULL STRINGS WILL BE INSTALLED BY STRUCTURE CONTRACTOR.
- LIGHTING DISTRIBUTION CABINET LR-SB AND 3 PHASE CIRCUITS 1, 3 AND 5 ARE BEING PROVIDED UNDER CONTRACT T200811301.
- COORDINATE WITH GUARD RAIL CONTRACTOR FOR POST SPACING TO BE 3'-1 1/2" C/C.
- JUNCTION BOX IN BARRIER WILL BE INSTALLED BY STRUCTURE CONTRACTOR. REFER TO LI-30 FOR DETAILS.

LIGHTING STANDARD SCHEDULE									
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-11	LR-SB CCT #5	41+57.42 B/L RAMP F	31.00' RT	40	15	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-12	LR-SB CCT #1	311+47.00 B/L US 301	78.00' LT	40	15	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-13	LR-SB CCT #3	313+87.00 B/L US 301	78.00' LT	40	15	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-26	LR-NB CCT #5	23+22.50 B/L RAMP C	34.00' RT	40	12	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-27	LR-NB CCT #1	23.42.25 B/L RAMP C	30.75' LT	40	15	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-28	LR-NB CCT #3	25+03.50 B/L RAMP C	31.00' RT	40	15	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-29	LR-NB CCT #5	312+58.00 B/L US 301	78.00' RT	40	15	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS

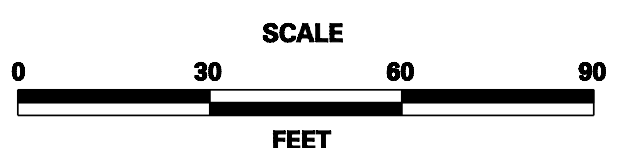


- NOTES:
- LIGHTING SERVICE RUN THROUGH BRIDGE BARRIER. REFER TO LI-30 AND BRIDGE 1-477 DRAWINGS FOR CONDUIT AND BARRIER DETAILS. EMPTY CONDUITS WITH PULL STRINGS WILL BE INSTALLED BY STRUCTURE CONTRACTOR.
 - LIGHTING DISTRIBUTION CABINET LR-SB, LR-NB AND 3 PHASE CIRCUITS 1, 3 AND 5 ARE BEING PROVIDED UNDER CONTRACT T200811301.
 - JUNCTION BOX IN BARRIER WILL BE INSTALLED BY STRUCTURE CONTRACTOR. REFER TO LI-30 FOR DETAILS.

LIGHTING SERVICE SCHEDULE						
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
*LSR-10A	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET LR-SB
LSR-11	206	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
LSR-12	5	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
LSR-12A	20	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRANSITION - JW TO BRIDGE BARRIER	
LSR-13	200	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	BRIDGE BARRIER	
LSR-13A	15	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRANSITION - BRIDGE BARRIER TO JW	
LSR-14	8	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
**LSR-15	195	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
***LSR-24	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
LSR-25	67	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
LSR-26	42	2 (ONE SPARE)	3" PVC	(2)#6, (1)#6 GROUND (CCT 1)	TRENCH (PROPOSED PAVEMENT)	LTG CCT FROM DISTRIBUTION CABINET LR-NB
LSR-27	18	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 1)	TRENCH	
LSR-28	109	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
LSR-29	171	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
LSR-30	5	1	3" PVC	(2)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
LSR-30A	20	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRANSITION - JW TO BRIDGE BARRIER	
**LSR-31	250	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	BRIDGE BARRIER	

* CONTINUED FROM DWG. LI-02, LSR DISTANCE SHOWN ON LI-02
 ** CONTINUED TO DWG. LI-08
 *** CONTINUED FROM DWG. LI-07, LSR DISTANCE SHOWN ON LI-07

ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	T20091303
COUNTY	NEW CASTLE
BRIDGE NO.	
DESIGNED BY:	A. AGGARWAL
CHECKED BY:	D. L. BAKER

LIGHTING PLAN

LI-03
SHEET NO.
1002
TOTAL SHTS.
1256

PANEL DESIGNATION LR-SB		TYPE: THREE PHASE 4W NUMBER OF POLES: 20 GROUND BUS RATING: 100% MAIN BUS RATING: 100A MAIN RATING: 50A 3P MCB		LOCATION: LEVELS ROAD WITH RAMP E VOLTAGE: 277/480 VAC PANEL MOUNTING: PAD PANEL ENCLOSURE (NEMA): TYPE 3R PANEL MIN. A.I.C. RATING: 10KA						
CIR. NO.	CIR. BKR.	DESCRIPTION	LOAD/PHASE				DESCRIPTION	CIR. BKR.	CIR. NO.	
			LOAD	L1	L2	L3				LOAD
1	15A	CIRCUIT "A" (RAMP F)	1080	2010			930	15A	2	
3			1080		2010		930		4	
5			900			1520	620		6	
7	15A	CIRCUIT "C" (INTERSECTION)	570	2570			2000	15A	8	
9			570		1170		600	15A	10	
11			570			570			15A	12
					4580	3180	2090			

TOTAL CONNECTED VA LOAD 7,360

CU EQUIPMENT GROUND BUS
100% SOLID NEUTRAL BUS

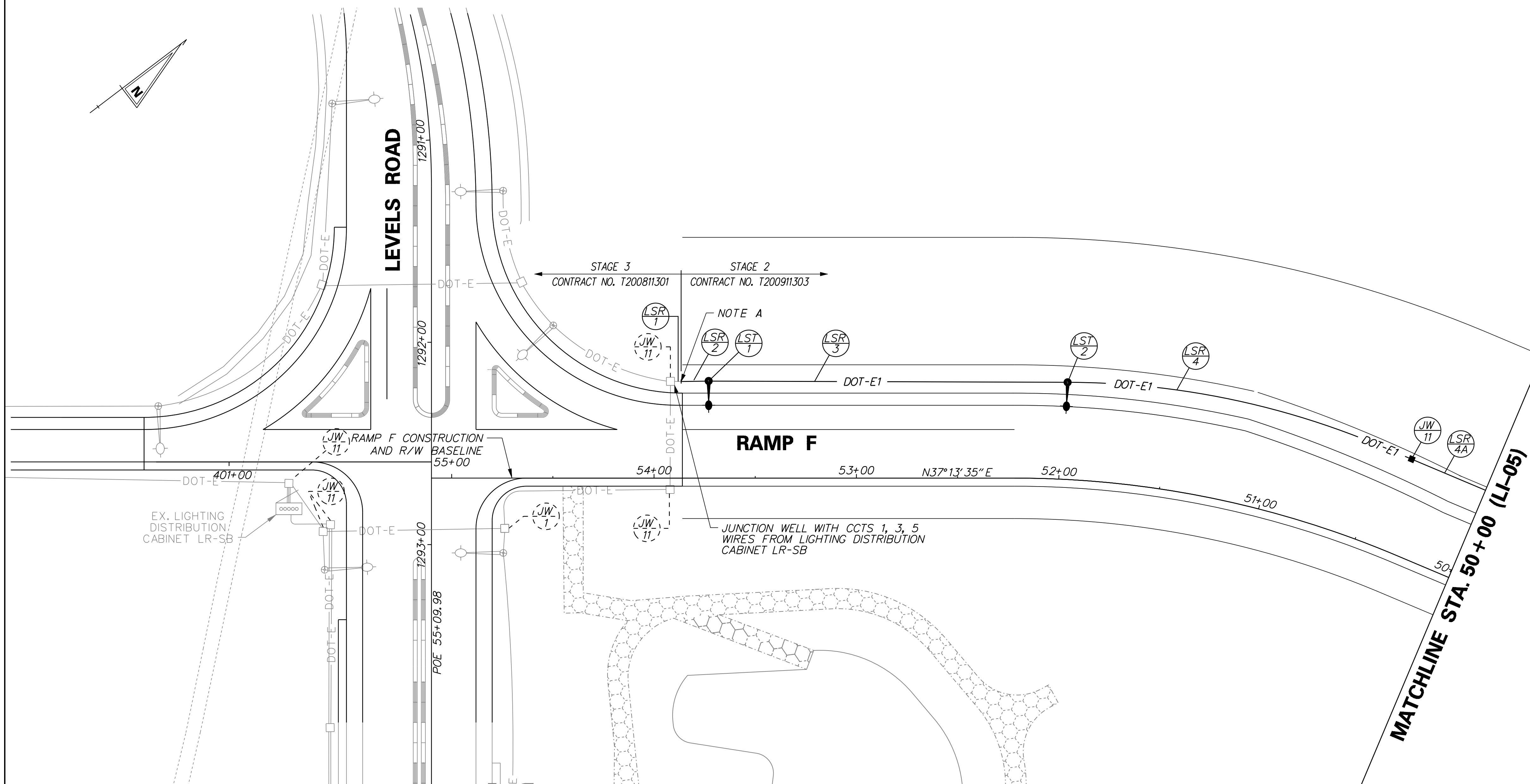
'LR-SB' PANEL SCHEDULE

(PROVIDED UNDER CONTRACT T200811301)

NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-1	LR-SB CCT #1	53+73.00 B/L RAMP F	48.00' RT	30'	12'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	150W HPS
LST-2	LR-SB CCT #3	51+98.00 B/L RAMP F	48.00' RT	30'	12'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	150W HPS

SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
**LSR-1	6	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	EMPTY CONDUIT PROVIDED UNDER CONTRACT T200811301. CIRCUIT EXISTS AT FIRST JUNCTION WELL UPSTREAM, SEE NOTE A
LSR-2	15	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET LR-SB
LSR-3	178	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
LSR-4	176	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
*LSR-4A	175	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	

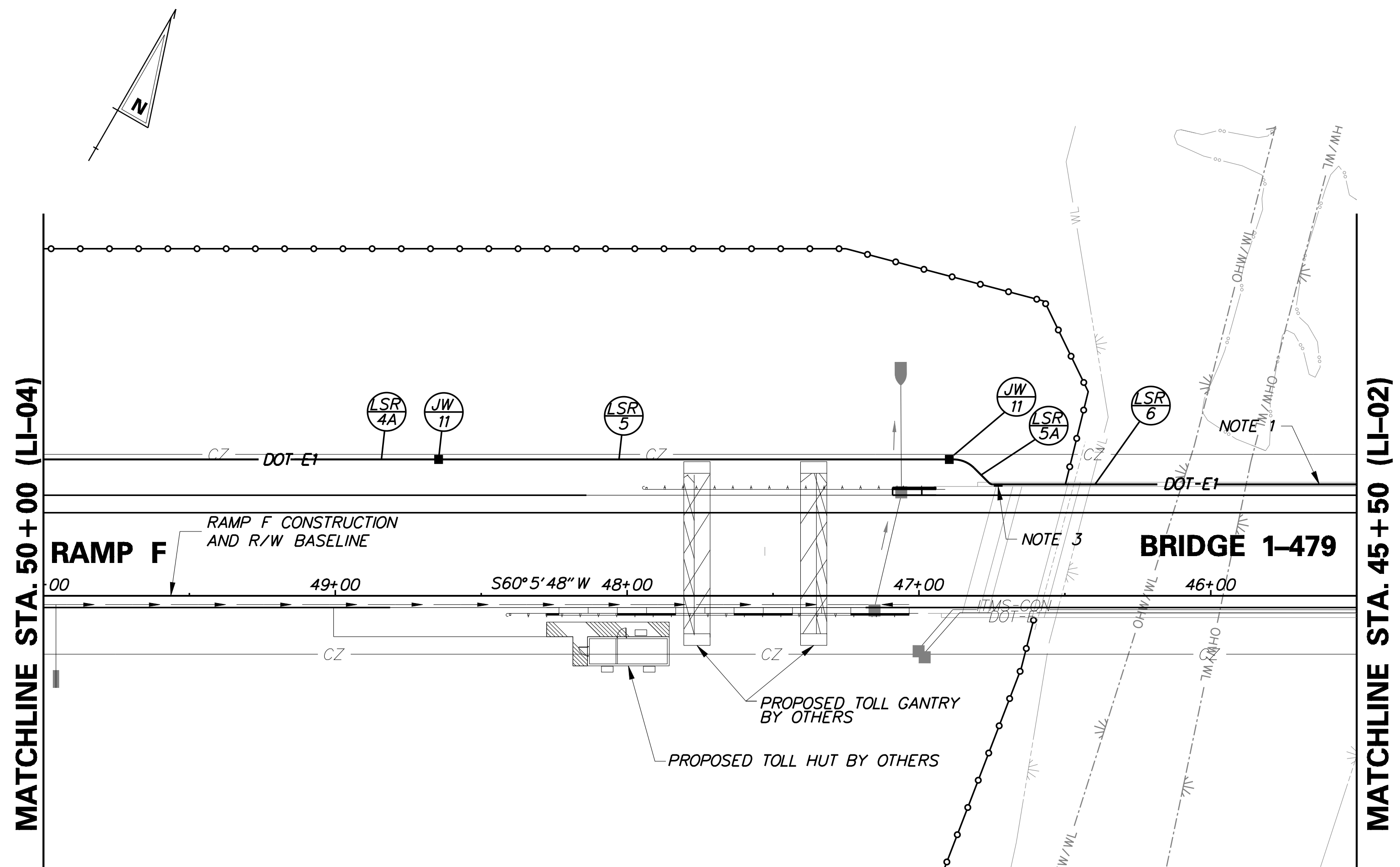
* CONTINUED TO DWG. LI-05
** COORDINATE WITH CONTRACTOR OF CONTRACT T200811301 FOR EXTENDING THE EXISTING CONDUIT AND PROVIDING SPLICES AT THE EXISTING UPSTREAM JUNCTION WELL.



NOTE A:
EMPTY 3" DIAMETER PVC CONDUIT FOR RAMP F LIGHTING POLES PROVIDED BY OTHERS. THREE PHASE CIRCUITS 1, 3, 5 WITH 4-#4 AND 1-#4 GROUND IN EXISTING CONDUIT FROM LIGHTING DISTRIBUTION CABINET LR-SB EXISTS COILED UP IN THE JUNCTION WELL UPSTREAM. PROVIDE COUPLING/ADAPTER AT EXISTING CONDUIT END. EXTEND WITH 3" PVC CONDUIT TO POLE LST-1.

\$FILES
 \$DATES
 \$USERS

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT T200911303	BRIDGE NO.	LIGHTING PLAN	LI-04
				COUNTY NEW CASTLE	DESIGNED BY: A. AGGARWAL		CHECKED BY: D. L. BAKER

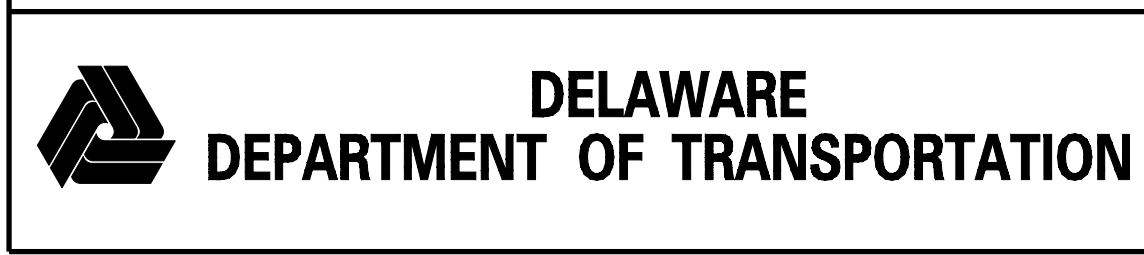


LIGHTING SERVICE SCHEDULE						
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
*LSR-4A	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
LSR-5	175	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET LR-SB
LSR-5A	20	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRANSITION - BRIDGE BARRIER TO JW	
**LSR-6	190	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	BRIDGE BARRIER	

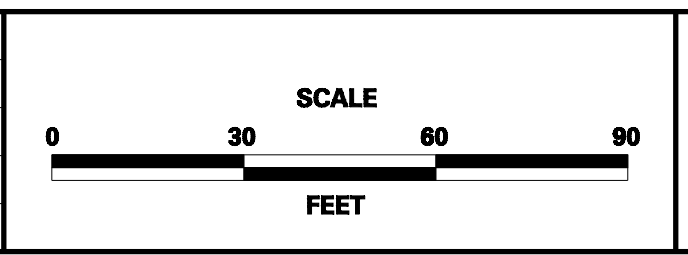
* CONTINUED FROM DWG. LI-04, LSR DISTANCE SHOWN ON LI-04
 ** CONTINUED TO DWG. LI-02

- NOTES:**
- LIGHTING SERVICE RUN THROUGH BRIDGE BARRIER. REFER TO LI-30 AND BRIDGE 1-479 DRAWINGS FOR CONDUIT AND BARRIER DETAILS. EMPTY CONDUITS WITH PULL STRINGS WILL BE INSTALLED BY STRUCTURE CONTRACTOR.
 - LIGHTING DISTRIBUTION CABINET LR-SB AND 3 PHASE CIRCUITS 1, 3 AND 5 ARE BEING PROVIDED UNDER CONTRACT T200811301.
 - JUNCTION BOX IN BARRIER WILL BE INSTALLED BY STRUCTURE CONTRACTOR. REFER TO LI-30 FOR DETAILS.

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 9/2/2015
 Cherl_Wysocki



ADDENDUMS / REVISIONS



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

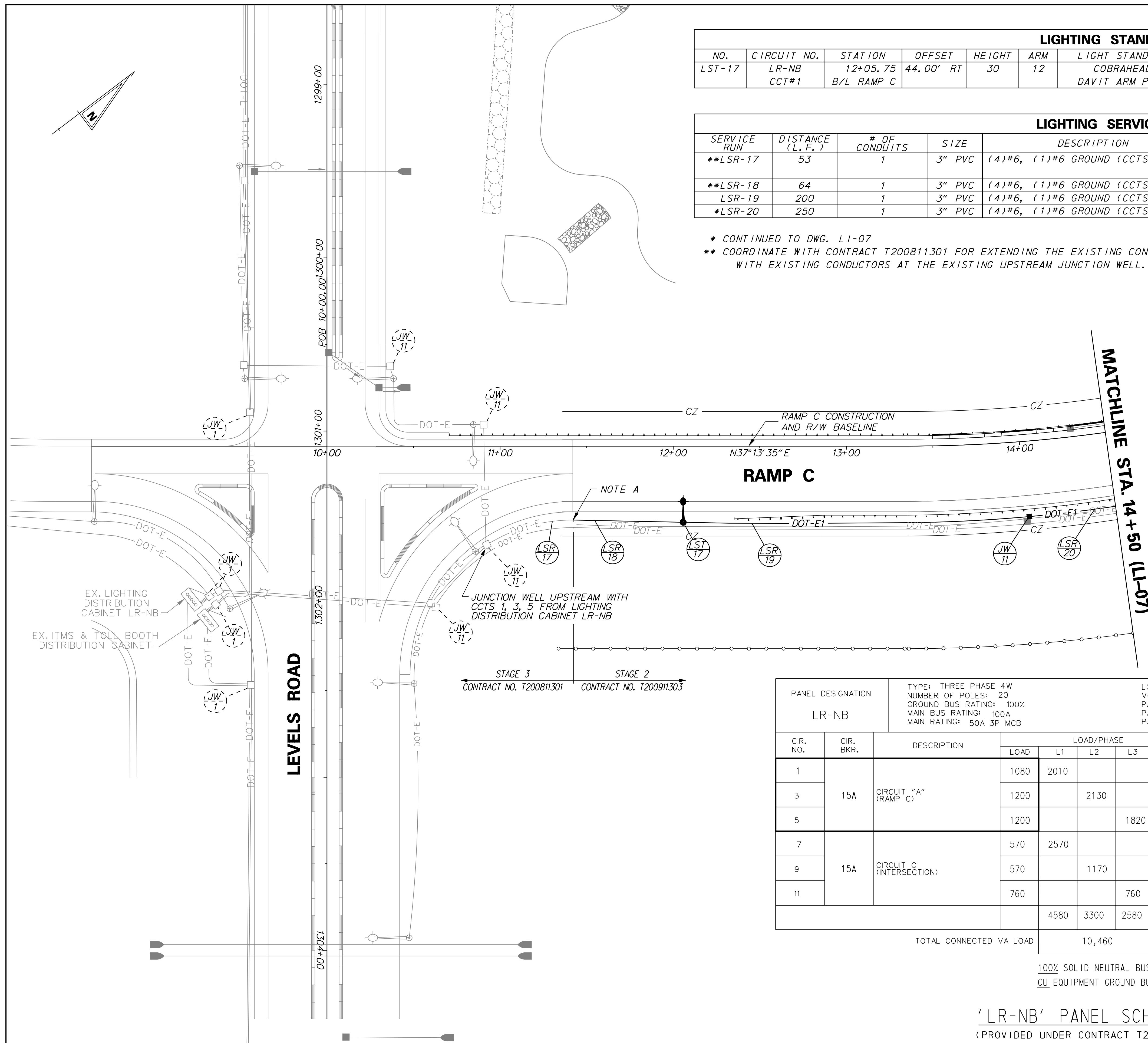
LIGHTING PLAN

LI-05
SHEET NO.
1004
TOTAL SHTS.
1256

LIGHTING STANDARD SCHEDULE									
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-17	LR-NB CCT#1	12+05.75 B/L RAMP C	44.00' RT	30	12	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	150W HPS

LIGHTING SERVICE SCHEDULE							
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS	
**LSR-17	53	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	EMPTY CONDUIT PROVIDED UNDER CONTRACT T200811301. 3 PHASE CIRCUIT EXISTS AT JUNCTION WELL	
**LSR-18	64	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET LR-NB	
LSR-19	200	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET LR-NB	
*LSR-20	250	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET LR-NB	

* CONTINUED TO DWG. LI-07
 ** COORDINATE WITH CONTRACT T200811301 FOR EXTENDING THE EXISTING CONDUIT AND SPLICING WITH EXISTING CONDUCTORS AT THE EXISTING UPSTREAM JUNCTION WELL.



NOTE A:
 EMPTY 3" DIAMETER PVC CONDUIT FOR RAMP C LIGHTING POLES PROVIDED BY OTHERS. THREE PHASE CIRCUITS 1, 3, 5 WITH 4-#4 AND 1-#4 GROUND IN EXISTING CONDUIT FROM LIGHTING DISTRIBUTION CABINET LR-NB EXISTS COILED UP IN THE JUNCTION WELL UPSTREAM. PROVIDE COUPLING/ADAPTER AT EXISTING CONDUIT END. EXTEND WITH 3" PVC CONDUIT TO POLE LST-17.

PANEL DESIGNATION		TYPE: THREE PHASE 4W				LOCATION: LEVELS ROAD WITH RAMP D				
LR-NB		NUMBER OF POLES: 20				VOLTAGE: 277/480 VAC				
		GROUND BUS RATING: 100%				PANEL MOUNTING: PAD				
		MAIN BUS RATING: 100A				PANEL ENCLOSURE (NEMA): TYPE 3R				
		MAIN RATING: 50A 3P MCB				PANEL MIN. A.I.C. RATING: 10KA				
CIR. NO.	CIR. BKR.	DESCRIPTION	LOAD/PHASE			DESCRIPTION	CIR. BKR.	CIR. NO.		
			LOAD	L1	L2				L3	LOAD
1	15A	CIRCUIT "A" (RAMP C)	1080	2010		930	15A	2		
3			1200		2130	930		4		
5			1200			1820		620	6	
7	15A	CIRCUIT C (INTERSECTION)	570	2570		2000	15A	8		
9			570		1170	600		10		
11			760			760			12	
TOTAL CONNECTED VA LOAD			4580			3300			2580	

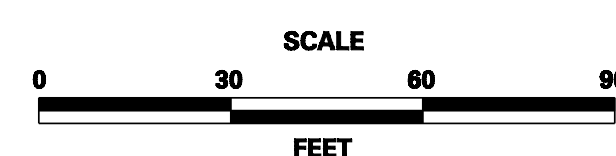
100% SOLID NEUTRAL BUS
 CU EQUIPMENT GROUND BUS

'LR-NB' PANEL SCHEDULE
 (PROVIDED UNDER CONTRACT T200811301)

\$FILES
\$DATES
\$USERS



ADDENDUMS / REVISIONS

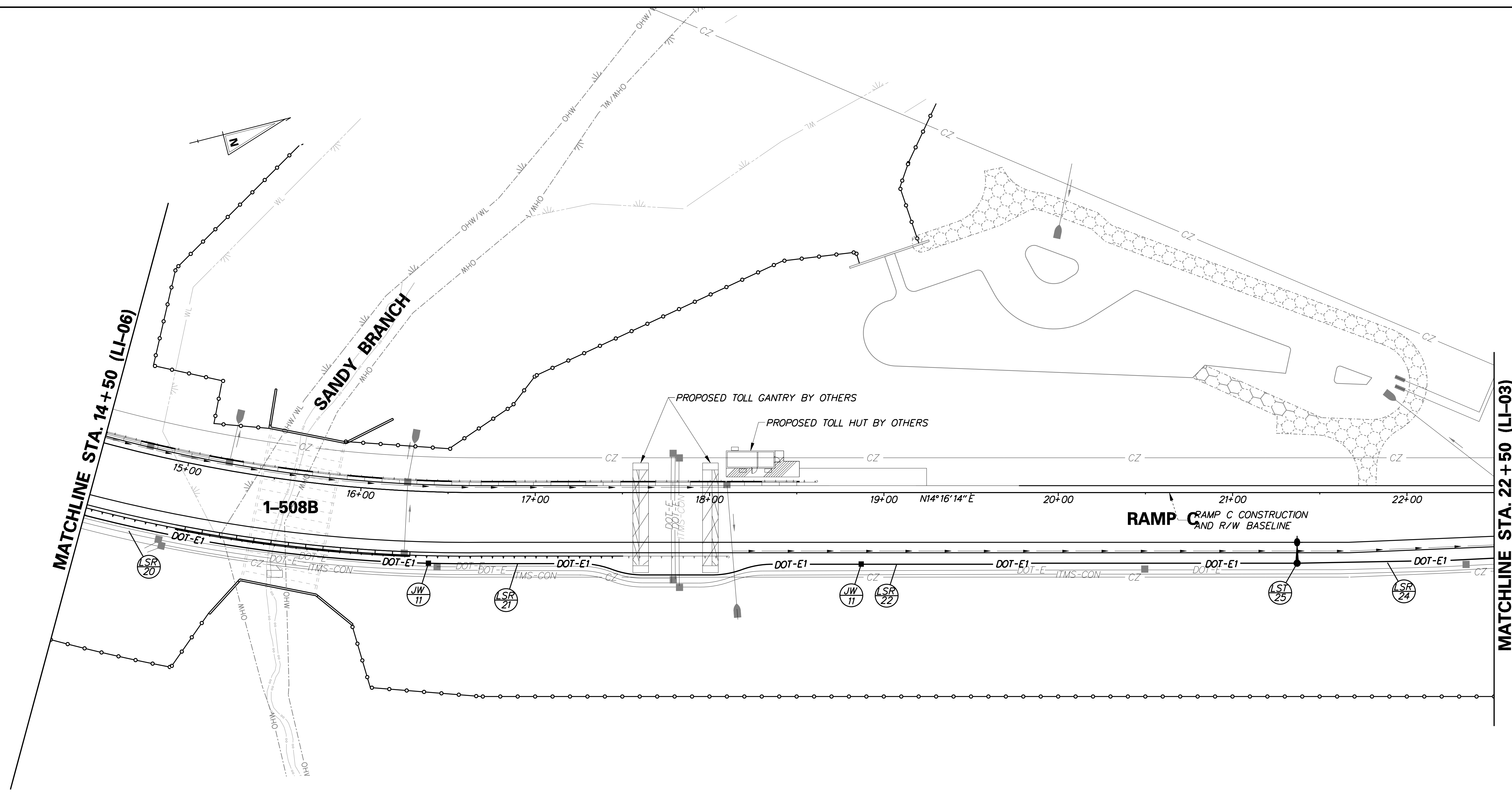


**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

LIGHTING PLAN

LI-06
SHEET NO.
1005
TOTAL SHTS.
1256



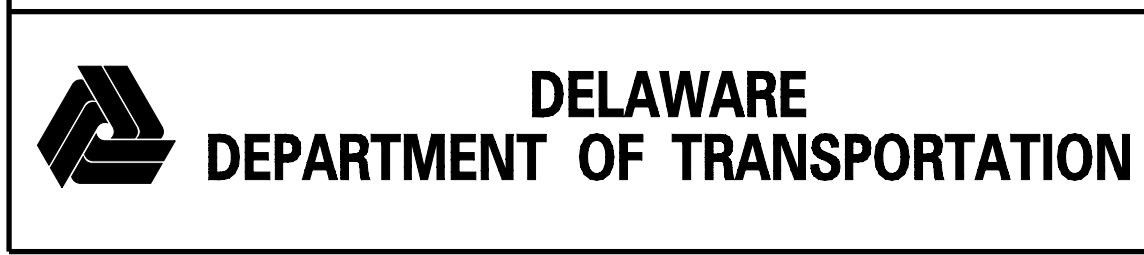
LIGHTING STANDARD SCHEDULE									
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-25	LR-NB CCT #3	21+37.00 B/L RAMP C	40.50' RT	40	12	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS

LIGHTING SERVICE SCHEDULE							
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS	
*LSR-20	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET LR-NB	
LSR-21	250	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH		
LSR-22	250	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH		
**LSR-24	186	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH		

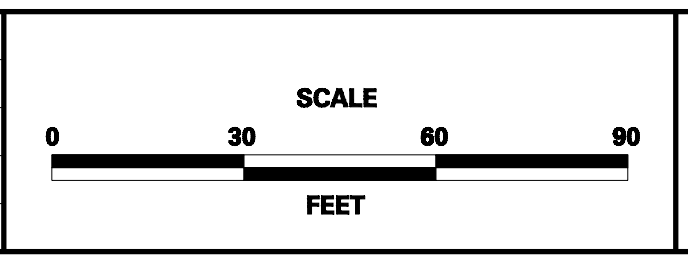
* CONTINUED FROM DWG. LI-06, LSR DISTANCE SHOWN ON LI-06
 ** CONTINUED TO DWG. LI-03

NOTE:
 LIGHTING DISTRIBUTION CABINET LR-NB AND 3 PHASE CIRCUITS 1, 3 AND 5 ARE BEING PROVIDED UNDER CONTRACT T200811301.

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ADDENDUMS / REVISIONS



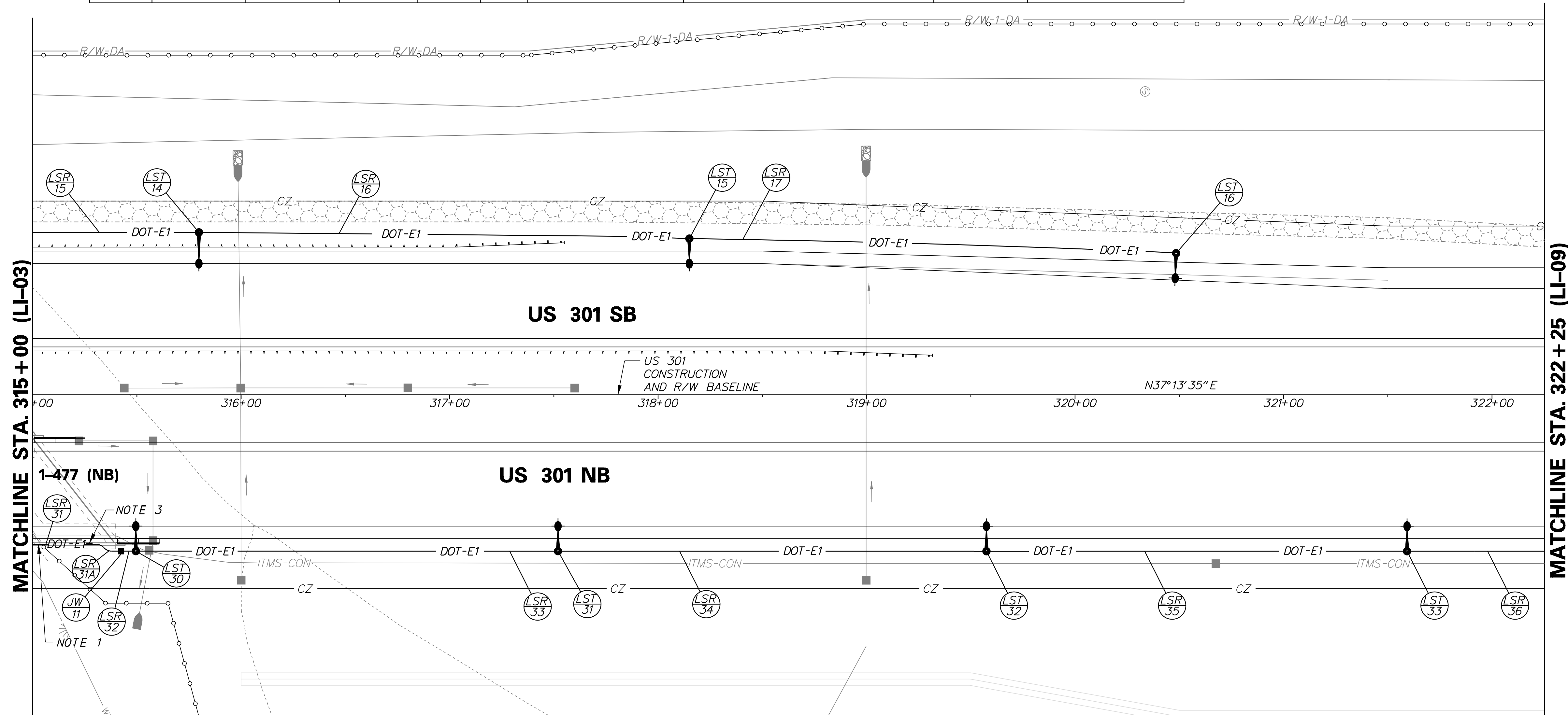
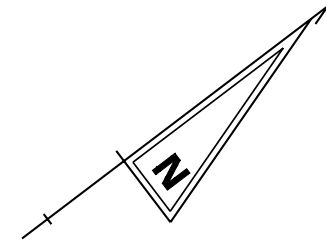
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: A. AGGARWAL
	CHECKED BY: D. L. BAKER

LIGHTING PLAN

LI-07
SHEET NO. 1006
TOTAL SHTS. 1256

LIGHTING STANDARD SCHEDULE									
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-14	LR-SB CCT #5	315+79.95 B/L US 301	78.00' LT	40	15	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-15	LR-SB CCT #1	318+15.00 B/L US 301	75.00' LT	40	12	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-16	LR-SB CCT #3	320+48.50 B/L US 301	68.00' LT	40	12	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-30	LR-NB CCT #1	315+49.50 B/L US 301	78.00' RT	40	12	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-31	LR-NB CCT #3	317+52.00 B/L US 301	75.00' RT	40	12	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-32	LR-NB CCT #5	319+57.50 B/L US 301	75.00' RT	40	12	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-33	LR-NB CCT #1	321+59.25 B/L US 301	75.00' RT	40	12	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS



LIGHTING SERVICE SCHEDULE						
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
**LSR-15	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET LR-SB
LSR-16	236	1	3" PVC	(3)#6, (1)#6 GROUND (CCTS 1, 3)	TRENCH	
LSR-17	234	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 3)	TRENCH	
**LSR-31	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	BRIDGE BARRIER	LTG CCT FROM DISTRIBUTION CABINET LR-NB
LSR-31A	15	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRANSITION - BRIDGE BARRIER TO JW	
LSR-32	7	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
**LSR-33	203	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
LSR-34	206	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
LSR-35	202	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
*LSR-36	223	1	3" PVC	(3)#6, (1)#6 GROUND (CCTS 3, 5)	TRENCH	

* CONTINUED TO DWG. LI-09
 ** CONTINUED FROM DWG. LI-03, LSR DISTANCE SHOWN ON LI-03

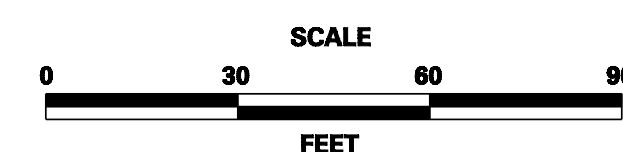
NOTES:

- LIGHTING SERVICE RUN THROUGH BRIDGE BARRIER. REFER TO LI-30 AND BRIDGE 1-477 DRAWINGS FOR CONDUIT AND BARRIER DETAILS. EMPTY CONDUITS WITH PULL STRINGS WILL BE INSTALLED BY STRUCTURE CONTRACTOR.
- LIGHTING DISTRIBUTION CABINET LR-NB, LR-SB AND 3 PHASE CIRCUIT 1, 3 AND 5 ARE BEING PROVIDED UNDER CONTRACT T200811301.
- JUNCTION BOX IN BARRIER WILL BE INSTALLED BY STRUCTURE CONTRACTOR. REFER TO LI-30 FOR DETAILS.

\$FILES
 \$DATES
 \$USERS



ADDENDUMS / REVISIONS

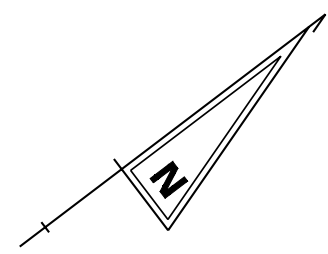


**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

LIGHTING PLAN

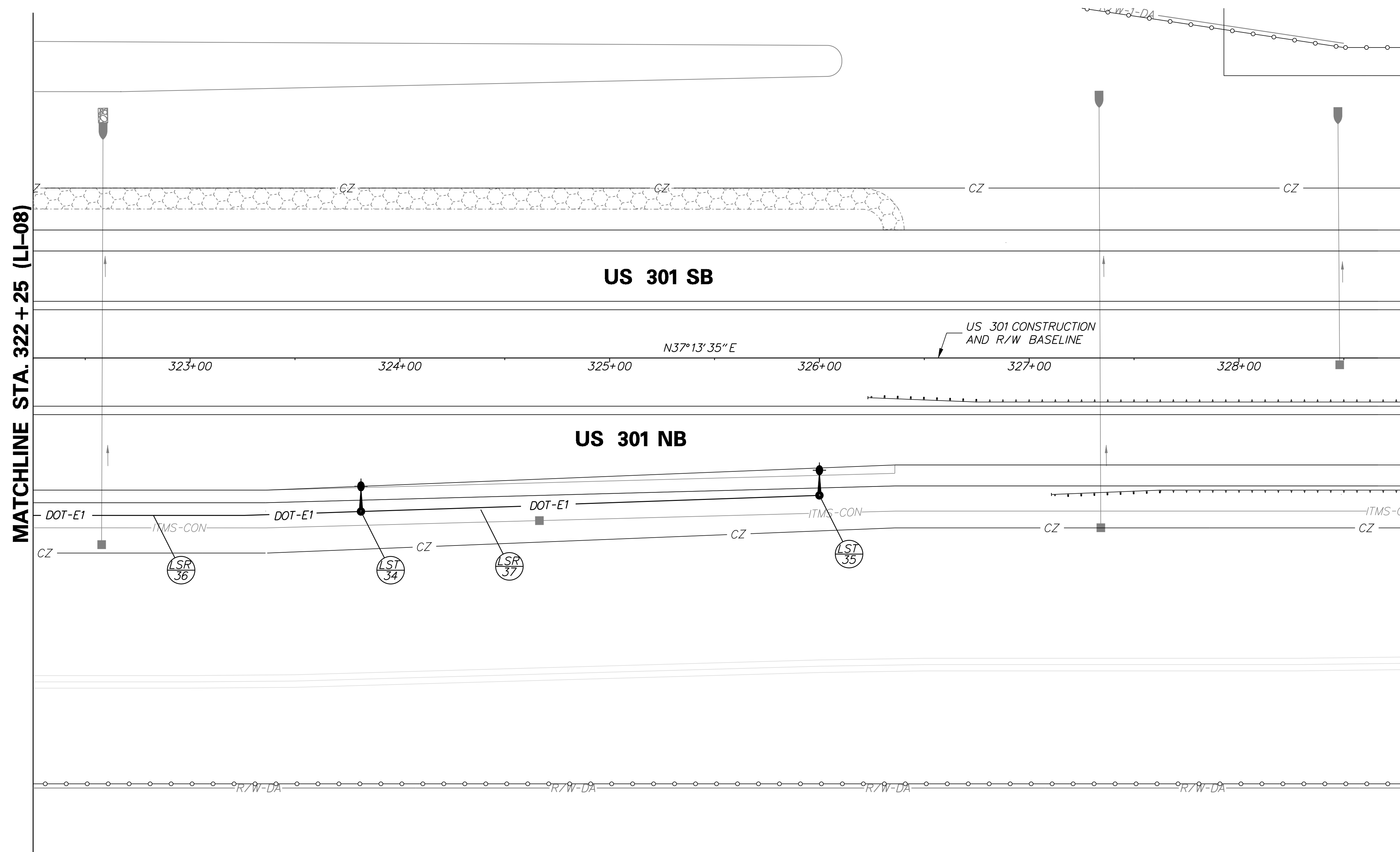
LI-08
SHEET NO.
1007
TOTAL SHTS.
1256



LIGHTING STANDARD SCHEDULE									
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-34	LR-NB CCT#3	323+81.50 B/L US 301	73.20' RT	40	12	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-35	LR-NB CCT#5	326+00.00 B/L US 301	65.50' RT	40	12	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS

LIGHTING SERVICE SCHEDULE						
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
*LSR-36	-	1	3" PVC	(3)#6, (1)#6 GROUND (CCTS 3, 5)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET LR-NB
LSR-37	219	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 5)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET LR-NB

* CONTINUED FROM SHEET LI-08, LSR DISTANCE SHOWN ON LI-08

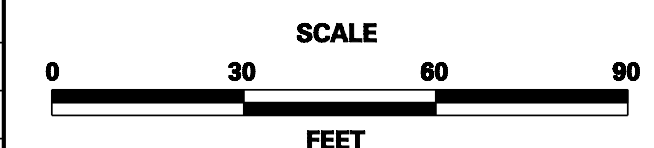


NOTE:
LIGHTING DISTRIBUTION CABINET LC-01 AND 3 PHASE CIRCUITS 1, 3 AND 5 ARE BEING PROVIDED UNDER CONTRACT T200811301.

\$FILES
\$DATES
\$USERS



ADDENDUMS / REVISIONS	

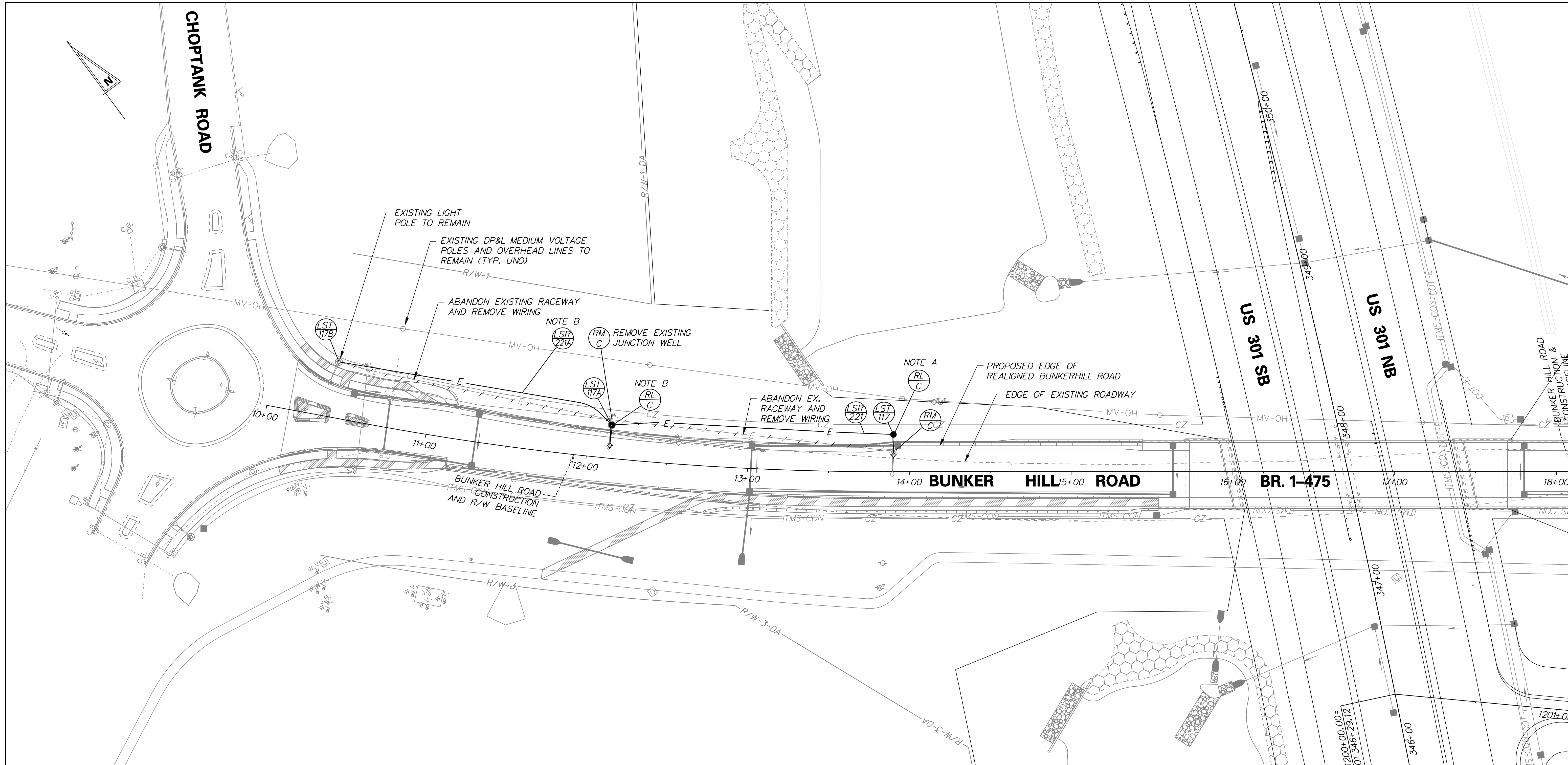


**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T20091303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

LIGHTING PLAN

LI-09
SHEET NO.
1008
TOTAL SHTS.
1256



LIGHTING STANDARD SCHEDULE

NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
*LST-117	EXISTING LIGHTING CCT	13+90.00	23.0' LT	30'	8'	EXISTING POLE/ LUMINAIRE WITH ARM	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	EXISTING	EXISTING 150W HPS
*LST-117A	EXISTING LIGHTING CCT	12+12.00	23.0' LT	30'	8'	EXISTING POLE/ LUMINAIRE WITH ARM	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	EXISTING	EXISTING 150W HPS

* RELOCATE EXISTING LIGHT POLE

LIGHTING SERVICE SCHEDULE

SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
**LSR-221	175	1	3" PVC	(2)#6, (1)#6 GROUND EXISTING CCT	TRENCH	LTG CCT FROM EXISTING ROUNDABOUT LIGHTING CONTROLLER
**LSR-221A	175	1	3" PVC	(3)#6, (1)#6 GROUND EXISTING CCT	TRENCH	LTG CCT FROM EXISTING ROUNDABOUT LIGHTING CONTROLLER

** RUN SINGLE PHASE CIRCUIT IN NEW DIRECT BURIED CONDUIT TO THE RELOCATED POLE LST-117 AND LST-117A FROM EXISTING JUNCTION WELL AT THE LIGHT POLE UPSTREAM

NOTE A:

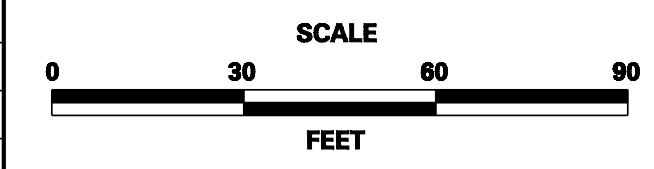
DISCONNECT AND REMOVE EXISTING LIGHT POLE LST-117. CONSTRUCT NEW CONCRETE FOUNDATION AND RELOCATE THE POLE AT FIVE FEET FROM THE PROPOSED EDGE OF ROADWAY. RECONNECT THE POLE TO THE SAME CIRCUIT THROUGH NEW WIRES IN NEW CONDUIT.

NOTE B:

DISCONNECT AND REMOVE EXISTING POLE. REMOVE EXISTING JUNCTION WELL. REMOVE WIRES BACK TO EXISTING LIGHT POLE 117B UPSTREAM. CONSTRUCT NEW POLE FOUNDATION AT NEW GRADE AND REINSTALL EXISTING POLE 117A. INSTALL NEW CONDUIT AND WIRES FROM EXISTING LIGHT POLE 117B UPSTREAM. VERIFY EXISTING CONDUIT SIZE AND MATCH NEW CONDUIT TO EXISTING CONDUIT BEING REMOVED IN ORDER TO FACILITATE THE BEND AT POLE LST-117B.



ADDENDUMS / REVISIONS

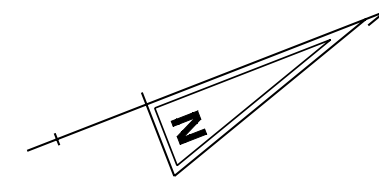


US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

LIGHTING PLAN

LI-10	SHEET NO.
1009	
	TOTAL SHTS.
	1256



157
PRIVATE PROPERTY

161
PRIVATE PROPERTY

PROPERTY EASEMENT
SEE NOTE 2

US 301 SB

US 301 NB

MATCHLINE STA. 392 + 50 (LI-12)

LIGHTING STANDARD SCHEDULE									
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
*LST-45	LC-03 CCT #7	386+06.15 B/L US 301	69.39' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
*LST-46	LC-03 CCT #11	388+31.75 B/L US 301	78.41' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
*LST-47	LC-03 CCT #9	390+56.87 B/L US 301	79.15' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS

* LIGHT POLES WILL BE INSTALLED UNDER CONTRACT T20091307. SHOWN HERE FOR REFERENCE ONLY

LIGHTING SERVICE SCHEDULE						
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
**LSR-49	226	1	3" PVC	(2)#6, (1)#6 GROUND CCT (7)	TRENCH	LTG CCT RUNS FROM SPUR RD
**LSR-48	226	1	3" PVC	(3)#6, (1)#6 GROUND CCTS (7, 11)	TRENCH	DISTRIBUTION CABINET LC-03
/LSR-47	227	1	3" PVC	(4)#6, (1)#6 GROUND CCTS (7, 9, 11)	TRENCH	UNDER CONTRACT T200911307

** LSR CONDUITS SHOWN FOR REFERENCE ONLY. TO BE PROVIDED UNDER CONTRACT T200911307

*** CONTINUED TO DWG. LI-12

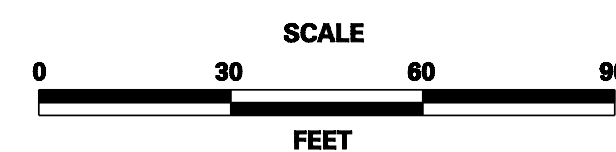
NOTES:

- SPUR ROAD INTERCHANGE LIGHTING WILL BE CONSTRUCTED IN CONTRACT T200911307. POWER SERVICE DROPS AND THE CONDUITS UNDER US 301 PAVEMENT WILL BE IN THIS CONTRACT.
- REFER TO SIGNING, STRIPING AND CONDUIT PLANS FOR DETAILS OF SERVICE POWER DROPS FROM DP&L POWER POLE AT CHOPTANK ROAD. THIS WILL INCLUDE METERING AT CHOPTANK ROAD NEW DP&L POLE AND LIGHTING CONTROL CABINET AT B/L US 301 STA. 399+90± LT.
- LIGHTING SERVICE AND LIGHTING STANDARD SCHEDULES ARE FOR INFORMATION ONLY.

\$FILES
\$DATES



ADDENDUMS / REVISIONS

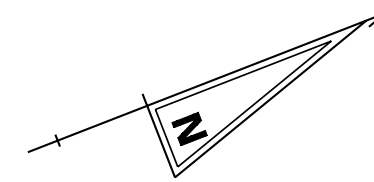


US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	A. AGGARWAL
COUNTY	CHECKED BY:	D. L. BAKER
NEW CASTLE		

LIGHTING PLAN

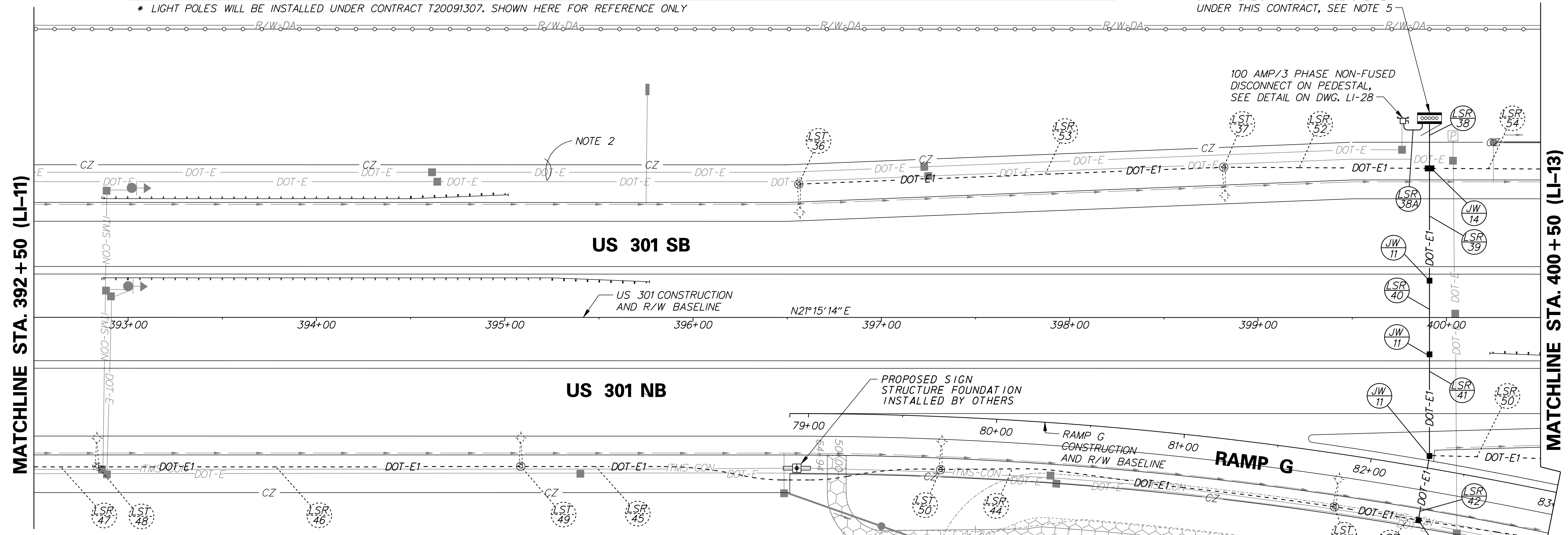
LI-11
SHEET NO.
1010
TOTAL SHTS.
1256



LIGHTING STANDARD SCHEDULE									
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
*LST-36	LC-03 CCT #3	396+56.15 B/L US 301	70.75' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
*LST-37	LC-03 CCT #1	398+81.15 B/L US 301	79.75' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
*LST-48	LC-03 CCT #7	392+83.45 B/L US 301	79.15' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
*LST-49	LC-03 CCT #11	395+08.52 B/L US 301	79.15' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
*LST-50	LC-03 CCT #9	79+71.27 B/L RAMP G	28.15' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
*LST-51	LC-03 CCT #7	81+84.45 B/L RAMP G	28.15' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS

* LIGHT POLES WILL BE INSTALLED UNDER CONTRACT T20091307. SHOWN HERE FOR REFERENCE ONLY

TYPE 'R' LC-03 277/480V, 200 AMP SPUR RD LIGHTING CONTROL CABINET UNDER THIS CONTRACT, SEE NOTE 5



LIGHTING SERVICE SCHEDULE						
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
*/**LSR-47	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 7, 9, 11)	TRENCH	LTG CCT RUNS FROM SPUR RD DISTRIBUTION CABINET LC-03 UNDER CONTRACT T200911307
*LSR-46	225	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 7, 9, 11)	TRENCH	
*LSR-45	224	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 7, 9, 11)	TRENCH	
*LSR-44	211	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 7, 9, 11)	TRENCH	
*LSR-43	52	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 7, 9, 11)	TRENCH	
****LSR-42	36	2 (ONE SPARE)	3" PVC	(4)#6, (2)#6, (1)#8 GROUND (CCTS 7, 9, 11, 10)	TRENCH (PROP. PVMT)	
****LSR-41	54	2 (ONE SPARE)	3" PVC	(4)#6, (3)#6, (1)#6 GROUND (CCTS 7, 9, 11, 8, 10)	TRENCH (PROP. PVMT)	
****LSR-40	39	1	3" PVC	(4)#6, (3)#6, (1)#6 GROUND (CCTS 7, 9, 11, 8, 10)	TRENCH	
****LSR-39	60	2 (ONE SPARE)	3" PVC	(4)#6, (3)#6, (1)#6 GROUND (CCTS 7, 9, 11, 8, 10)	TRENCH (PROP. PVMT)	
****LSR-38	25	4 (TWO SPARE)	4" PVC	(4)#6, (3)#6, (1)#6 GROUND (CCTS 1, 3, 2, 4, 6) IN 4" CONDUIT, (4)#6, (3)#6, (1)#8 GROUND (CCTS 7, 9, 11, 8, 10) IN 4" C,	TRENCH	
LSR-38A	5	1	2 1/2" PVC	(4)#1/0, (1)#6 GROUND	TRENCH	BET. DISC. SW & LC-03
*/**LSR-50	93	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 8)	TRENCH	LTG CCT RUNS FROM SPUR RD DISTRIBUTION CABINET LC-03 UNDER CONTRACT T200911307
*/**LSR-51	162	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 10)	TRENCH	
*LSR-52	116	1	3" PVC	(3)#6, (1)#6 GROUND (CCTS 1, 3)	TRENCH	
*LSR-53	225	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 3)	TRENCH	
*/**LSR-54	109	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 2, 4, 6)	TRENCH	

NOTES:

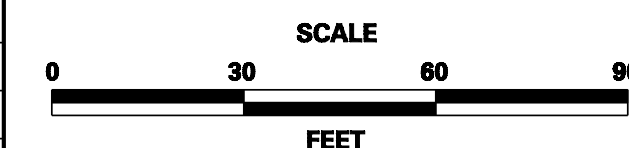
- SPUR ROAD INTERCHANGE LIGHTING WILL BE CONSTRUCTED IN CONTRACT T200911307. POWER SERVICE DROPS AND THE CONDUITS UNDER US 301 PAVEMENT WILL BE IN THIS CONTRACT.
- REFER TO SIGNING, STRIPING AND CONDUIT PLANS FOR DETAILS OF SERVICE POWER DROPS FROM DP&L POWER POLE AT CHOPTANK ROAD. THIS WILL INCLUDE METERING AT CHOPTANK ROAD NEW DP&L POLE AND SERVICE RUN TO LIGHTING CONTROL CABINET LC-03 AT B/L US 301 STA. 399+90± LT.
- INSTALL LIGHT CONTROL DISTRIBUTION CABINET 30 FEET AWAY FROM THE EDGE OF SHOULDER PAVEMENT EDGE OUTSIDE OF CLEAR ZONE.
- LIGHTING SERVICE AND LIGHTING STANDARD SCHEDULES ARE FOR INFORMATION ONLY. SEE **** UNDER LIGHTING SERVICE SCHEDULE FOR EMPTY CONDUITS AND JUNCTION WELLS UNDER THIS CONTRACT. WIRING TO BE PROVIDED UNDER CONTRACT T200911207.
- COORDINATE WITH DELMARVA POWER (DP&L) FOR 3 PHASE 480/277V SERVICE FROM CHOPTANK ROAD.

* LSR CONDUITS SHOWN FOR REFERENCE ONLY. CONDUIT AND WIRING TO BE PROVIDED UNDER CONTRACT T200911307
 ** CONTINUED FROM DWG. LI-11, LSR DISTANCE SHOWN ON LI-11
 *** CONTINUED TO DWG. LI-13
 **** EMPTY CONDUITS AND JUNCTION WELLS TO BE INSTALLED UNDER THIS CONTRACT, WIRING TO BE INSTALLED UNDER T200911207

FILES
DATES



ADDENDUMS / REVISIONS



US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

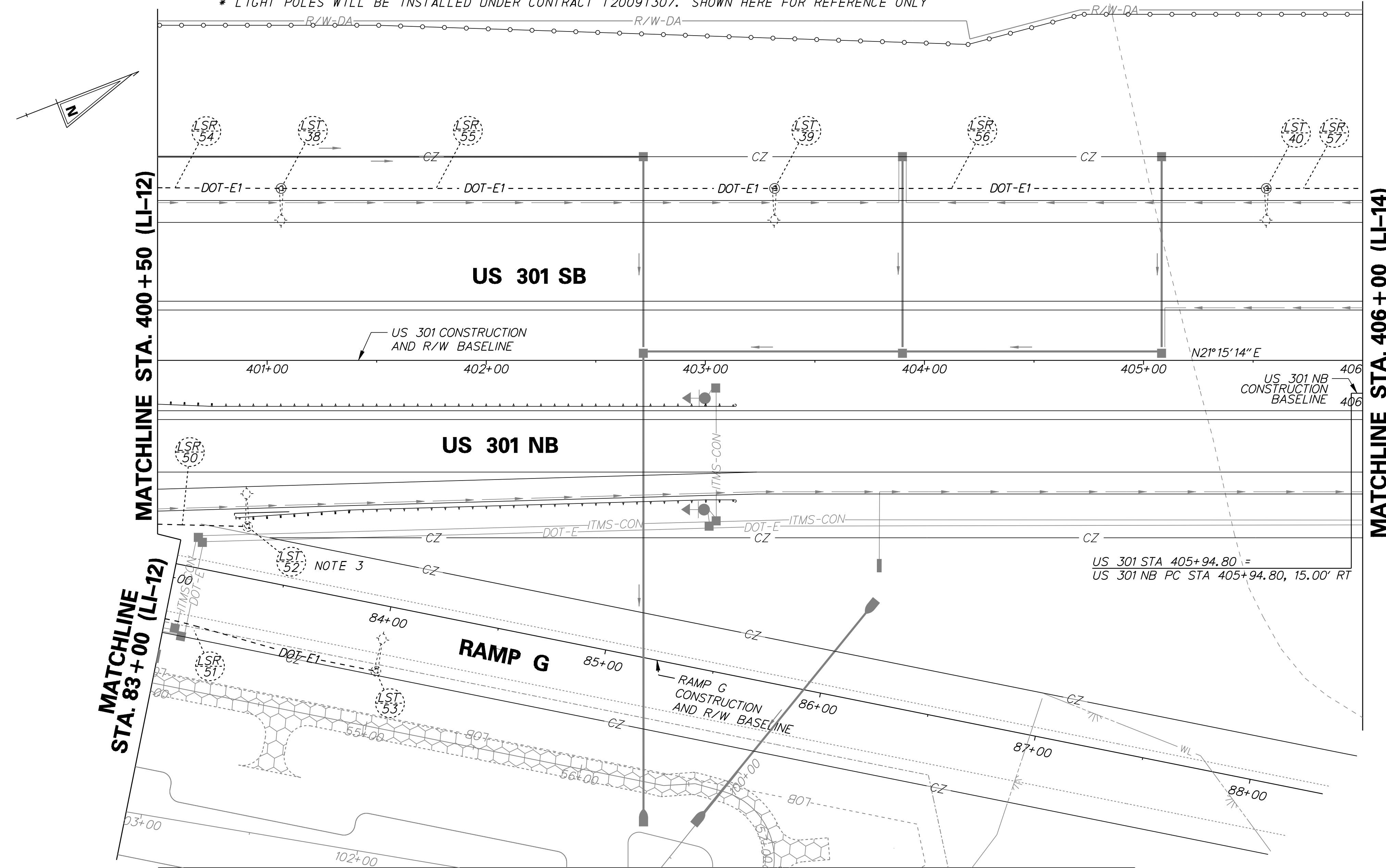
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

LIGHTING PLAN

LI-12	SHEET NO.
1011	
TOTAL SHTS.	
1256	

LIGHTING STANDARD SCHEDULE									
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
*LST-38	LC-03 CCT #2	401+06.94 B/L US 301	78.50' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
*LST-39	LC-03 CCT #4	403+31.61 B/L US 301	78.50' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
*LST-40	LC-03 CCT #6	405+56.10 B/L US 301	78.50' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
*LST-52	LC-03 CCT #8	83+28.00 B/L RAMP G	23.00' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
*LST-53	LC-03 CCT #10	83+99.08 B/L RAMP G	30.17' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS

* LIGHT POLES WILL BE INSTALLED UNDER CONTRACT T20091307. SHOWN HERE FOR REFERENCE ONLY



LIGHTING SERVICE SCHEDULE						
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
*//**LSR-50	-	1	3" PVC	(2)#6, (1) #6 GROUND (CCT 8)	TRENCH	LTG CCT RUNS FROM
*//**LSR-51	-	1	3" PVC	(2)#6, (1) #6 GROUND (CCT 10)	TRENCH	SPUR RD DISTRIBUTION
*//**LSR-54	-	1	3" PVC	(4)#6, (1) #6 GROUND (CCTS 2, 4, 6)	TRENCH	CABINET LC-03 UNDER
*LSR-55	225	1	3" PVC	(4)#6, (1) #6 GROUND (CCTS 2, 4, 6)	TRENCH	CONTRACT T200911307
*LSR-56	225	1	3" PVC	(4)#6, (1) #6 GROUND (CCTS 2, 4, 6)	TRENCH	
*//**LSR-57	225	1	3" PVC	(4)#6, (1) #6 GROUND (CCTS 2, 4, 6)	TRENCH	

* LSR CONDUITS SHOWN FOR REFERENCE ONLY. TO BE PROVIDED UNDER CONTRACT T200911307
 ** CONTINUED TO DWG. LI-14
 *** CONTINUED FROM DWG. LI-12, LSR DISTANCE SHOWN ON LI-12

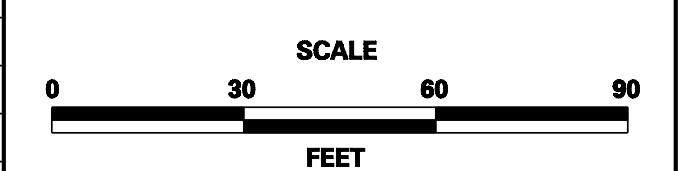
NOTES:

1. SPUR ROAD INTERCHANGE LIGHTING WILL BE CONSTRUCTED IN CONTRACT T200911307. POWER SERVICE DROPS AND THE CONDUITS UNDER US 301 PAVEMENT WILL BE IN THIS CONTRACT.
2. LIGHTING SERVICE AND LIGHTING STANDARD SCHEDULES ARE FOR INFORMATION ONLY.
3. COORDINATE WITH GUARD RAIL CONTRACTOR FOR POST SPACING TO BE 3' - 1 1/2" C/C.

\$FILES
\$DATES
\$USERS



ADDENDUMS / REVISIONS	

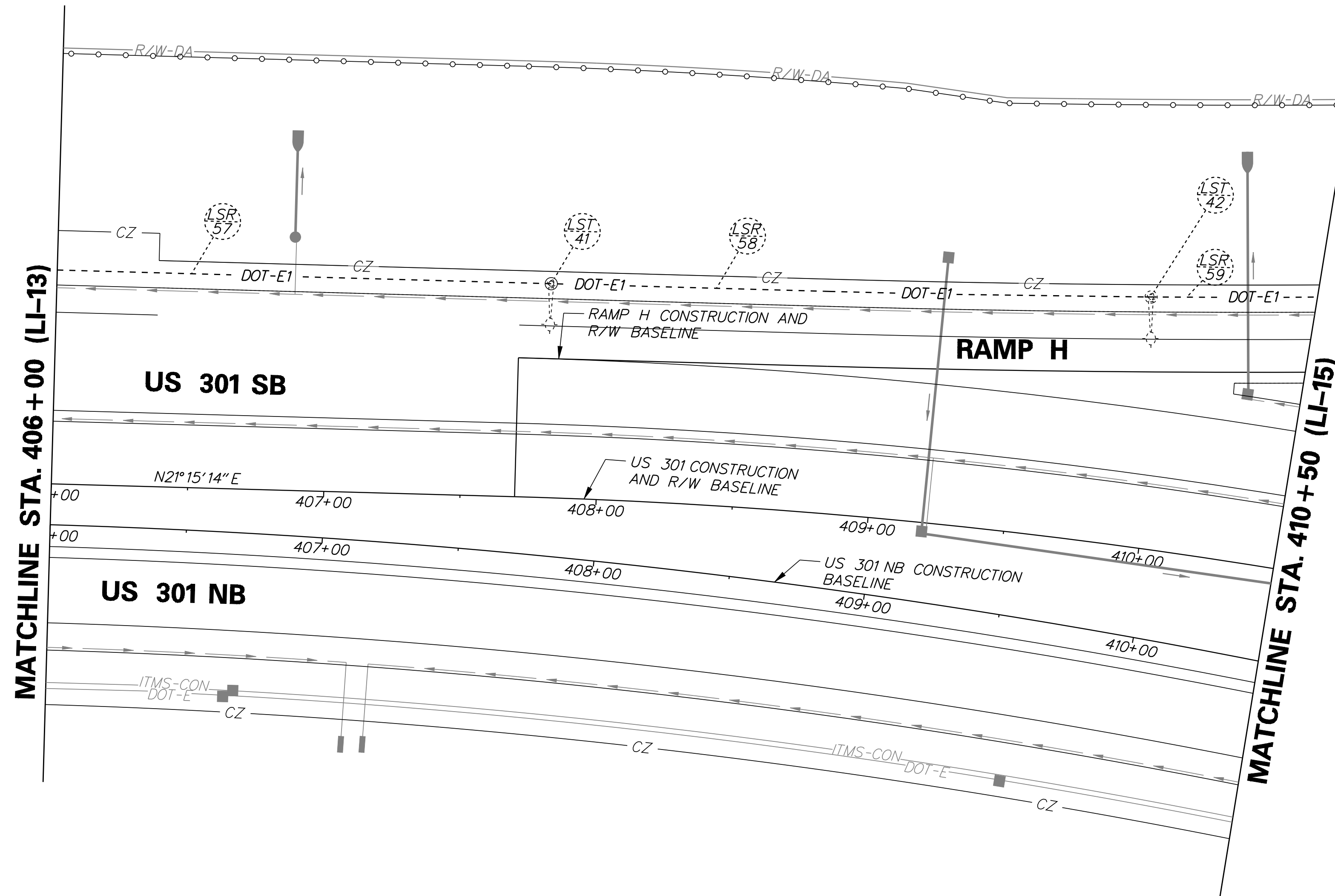
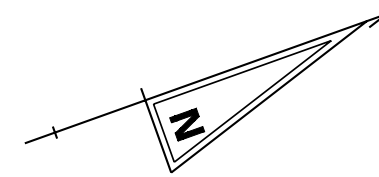


US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

LIGHTING PLAN

LI-13
SHEET NO.
1012
TOTAL SHTS.
1256



LIGHTING STANDARD SCHEDULE

NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
*LST-41	LC-03 CCT #2	69+16.45 B/L RAMP H	27.50' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
*LST-42	LC-03 CCT #4	66+95.68 B/L RAMP H	27.50' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS

* LIGHT POLES WILL BE INSTALLED UNDER CONTRACT T20091307. SHOWN HERE FOR REFERENCE ONLY

LIGHTING SERVICE SCHEDULE

SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
*/**LSR-57	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 2, 4, 6)	TRENCH	LTG CCT RUNS FROM SPUR RD
*LSR-58	221	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 2, 4, 6)	TRENCH	DISTRIBUTION CABINET LC-03
*/***LSR-59	128	1	3" PVC	(3)#6, (1)#6 GROUND (CCTS 2, 6)	TRENCH	UNDER CONTRACT T200911307

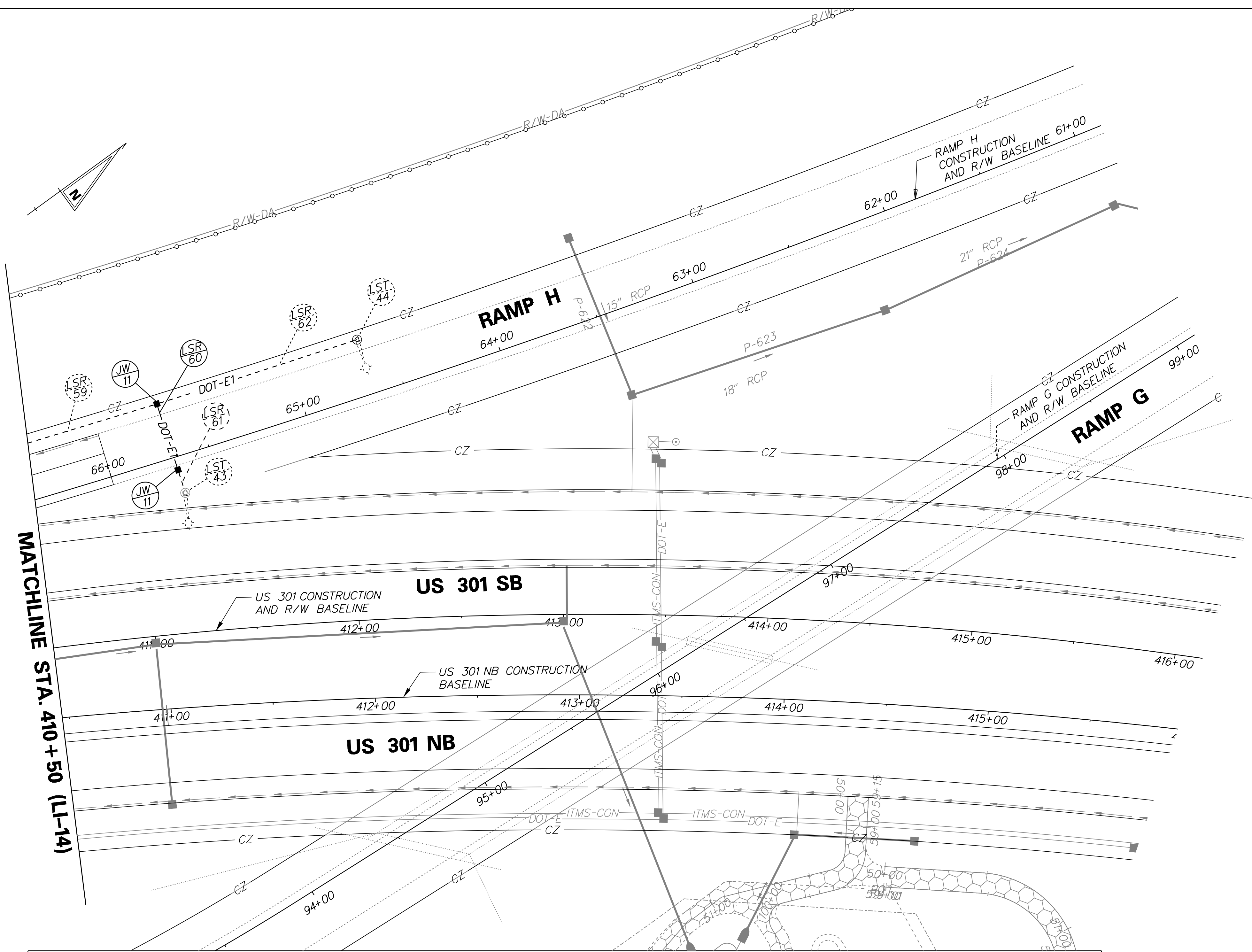
* LSR CONDUITS SHOWN FOR REFERENCE ONLY. TO BE PROVIDED UNDER CONTRACT T200911307

** CONTINUED FROM DWG. LI-13, LSR DISTANCE SHOWN ON LI-13

*** CONTINUED TO DWG. LI-15

NOTES:

- SPUR ROAD INTERCHANGE LIGHTING WILL BE CONSTRUCTED IN CONTRACT T200911307. POWER SERVICE DROPS AND THE CONDUITS UNDER US 301 PAVEMENT WILL BE IN THIS CONTRACT.
- LIGHTING SERVICE AND LIGHTING STANDARD SCHEDULES ARE FOR INFORMATION ONLY.



LIGHTING STANDARD SCHEDULE									
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-43	LC-03 CCT #6	65+67.85 B/L RAMP H	18.00' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-44	LC-03 CCT #2	64+64.78 B/L RAMP H	27.50' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS

* LIGHT POLES WILL BE INSTALLED UNDER CONTRACT T20091307. SHOWN HERE FOR REFERENCE ONLY

LIGHTING SERVICE SCHEDULE						
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
**LSR-59	34	1	3" PVC	(3)#6, (1)#6 GROUND (CCTS 2, 6)	TRENCH	LTG CCT RUNS FROM SPUR RD
**LSR-60	12	2(ONE SPARE)	3" PVC	(2)#6, (1)#6 GROUND (CCT 6)	TRENCH (PROP. PVMT)	DISTRIBUTION CABINET LC-03
*LSR-61	103	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 6)	TRENCH	UNDER CONTRACT T200911307
*LSR-62		1	3" PVC	(2)#6, (1)#6 GROUND (CCT 2)	TRENCH	

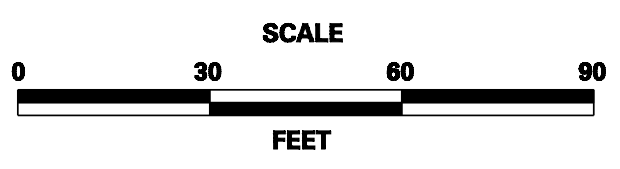
* LSR CONDUITS SHOWN FOR REFERENCE ONLY. CONDUIT AND WIRING TO BE PROVIDED UNDER CONTRACT T200911307
 ** EMPTY CONDUIT AND JUNCTION WELL TO BE INSTALLED UNDER THIS CONTRACT, WIRES TO BE INSTALLED UNDER CONTRACT T200911307
 *** CONTINUED FROM DWG. LI-14, LSR DISTANCE SHOWN ON LI-14

- NOTES:
- SPUR ROAD INTERCHANGE LIGHTING WILL BE CONSTRUCTED IN CONTRACT T200911307. POWER SERVICE DROPS AND THE CONDUITS UNDER US 301 PAVEMENT WILL BE IN THIS CONTRACT.
 - LIGHTING SERVICE AND LIGHTING STANDARD SCHEDULES ARE FOR INFORMATION ONLY.

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ADDENDUMS / REVISIONS	

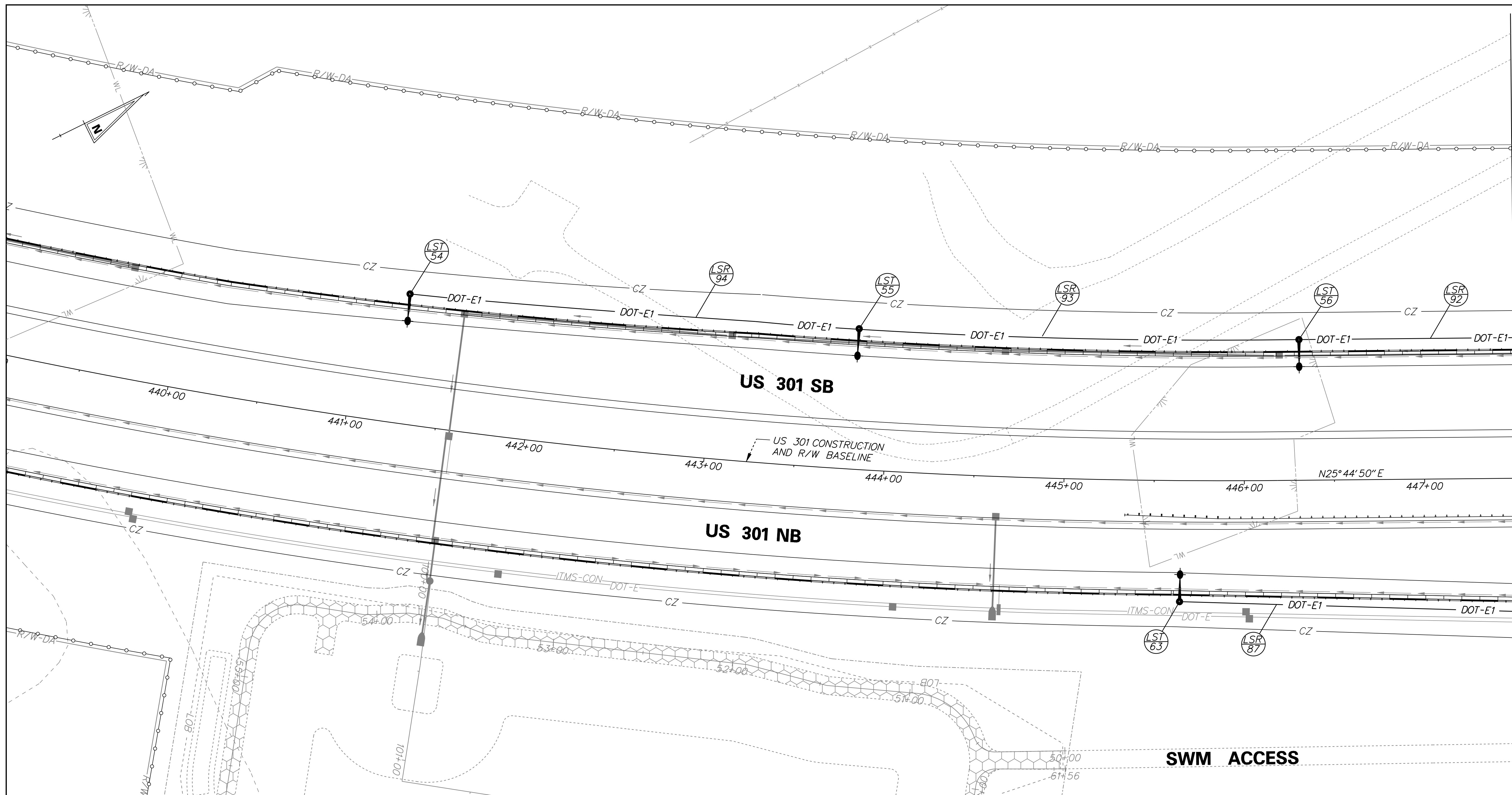


**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

LIGHTING PLAN

LI-15
SHEET NO.
1014
TOTAL SHTS.
1256



MATCHLINE STA. 447 + 50.00 (LI-17)

LIGHTING SERVICE SCHEDULE

SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
LSR-94	250	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 2)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET LC-04
LSR-93	244	1	3" PVC	(3)#6, (1)#6 GROUND (CCTS 2, 6)	TRENCH	
*LSR-92	244	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 2, 4, 6)	TRENCH	
*LSR-87	200	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 5)	TRENCH	

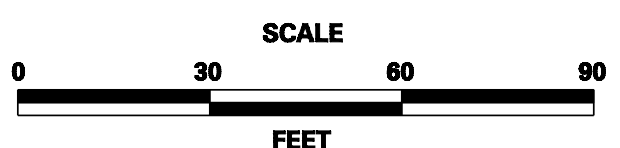
* CONTINUED TO DWG. LI-17

LIGHTING STANDARD SCHEDULE

NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-54	LC-04 CCT #2	441+25.80 B/L US 301	72.00' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-55	LC-04 CCT #6	443+81.42 B/L US 301	78.00' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-56	LC-04 CCT #4	446+31.00 B/L US 301	78.00' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-63	LC-04 CCT #5	445+64.50 B/L US 301	67.00' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS



ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

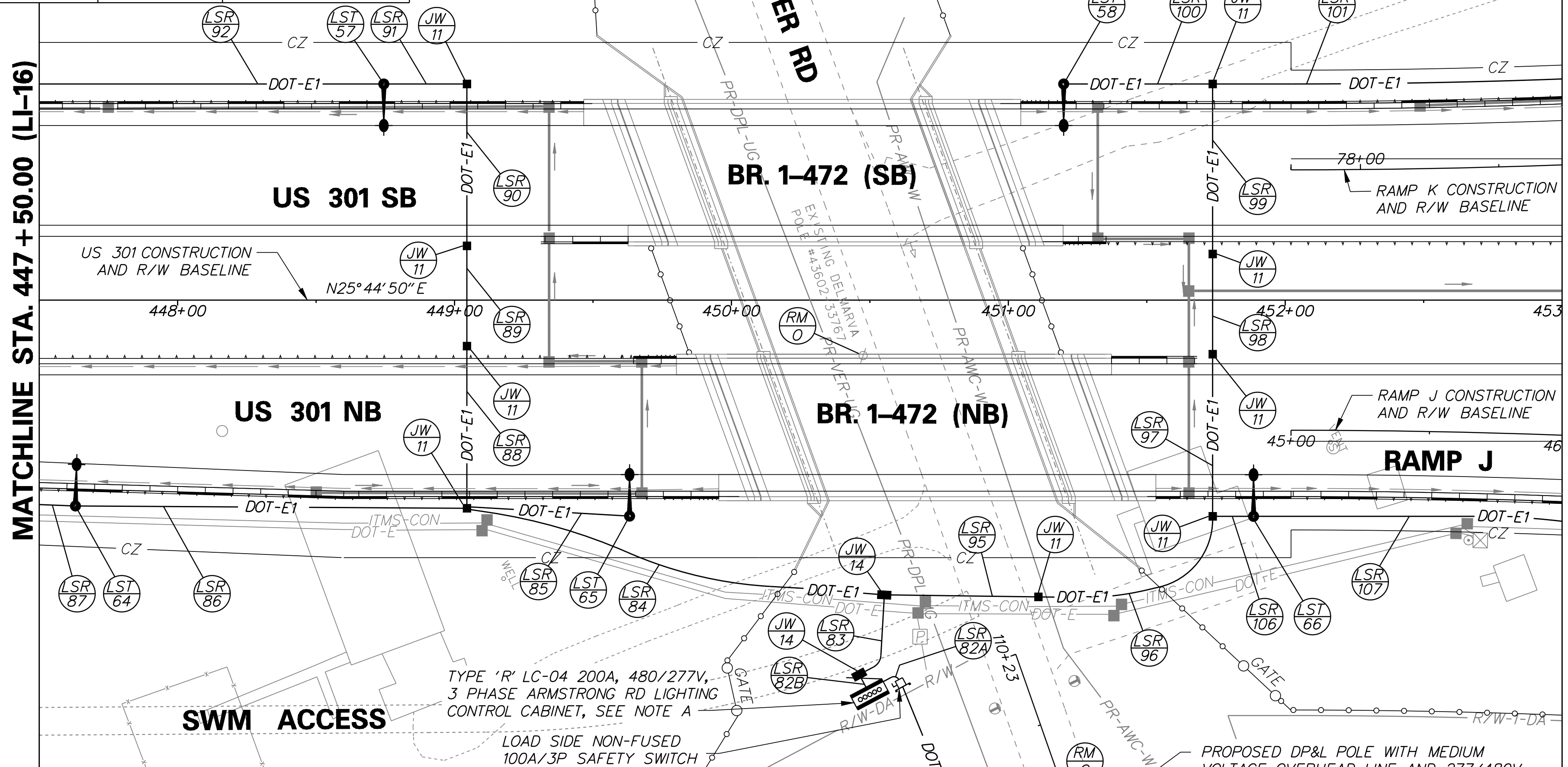
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

LIGHTING PLAN

LI-16
SHEET NO.
1015
TOTAL SHTS.
1256

\$FILES \$DATES \$USERS

LIGHTING STANDARD SCHEDULE									
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-57	LC-04 CCT #2	448+74.45 B/L US 301	77.50' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-58	LC-04 CCT #8	451+20.00 B/L US 301	77.50' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-64	LC-04 CCT #3	447+63.05 B/L US 301	75.46' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-65	LC-04 CCT #1	449+63.21 B/L US 301	77.75' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-66	LC-04 CCT #7	451+88.57 B/L US 301	77.55' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS



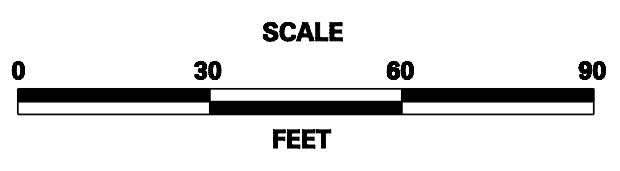
LIGHTING SERVICE SCHEDULE						
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
LSR-81	40	1	2" RGS	(4)#1/0,	TRENCH	MAIN SERVICE FROM DP&L POLE TO METERED SERVICE PEDESTAL
LSR-82	80	1	2 1/2" PVC	(4)#1/0, (1)#6 GROUND	TRENCH	MAIN SERVICE FROM METERED PEDSTAL TO DISCONNECT SWITCH
LSR-82A	10	1	2 1/2" PVC	(4)#1/0, (1)#6 GROUND	TRENCH	FROM NON-FUSED DISCONNECT SWITCH AT LC-04
LSR-82B	10	4 (TWO SPARE)	4" PVC	(8)#6, (1)#6 GROUND (CCTS 1, 3, 5, 2, 4, 6) IN 4" C, (8)#6, (1)#6 GROUND (CCTS 7, 9, 11, 8, 10, 12) IN 4" C	TRENCH	FROM LC-04 TO JW
LSR-83	43	2	3" PVC	(8)#6, (1)#6 GROUND (CCTS 1, 3, 5, 2, 4, 6) IN 3" C, (8)#6, (1)#6 GROUND (CCTS 7, 9, 11, 8, 10, 12) IN 3" C	TRENCH	
LSR-84	160	1	3" PVC	(8)#6, (1)#6 GROUND (CCTS 1, 3, 5, 2, 4, 6)	TRENCH	
LSR-85	59	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 1)	TRENCH	
LSR-86	140	1	3" PVC	(3)#6, (1)#6 GROUND (CCTS 3, 5)	TRENCH	
*LSR-87	-	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 5)	TRENCH	
LSR-88	61	2 (ONE SPARE)	3" PVC	(4)#6, (1)#6 GROUND (CCTS 2, 4, 6)	TRENCH (PROP. PVMT)	
LSR-89	36	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 2, 4, 6)	TRENCH	
LSR-90	59	2 (ONE SPARE)	3" PVC	(4)#6, (1)#6 GROUND (CCTS 2, 4, 6)	TRENCH (PROP. PVMT)	
LSR-91	30	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 2, 4, 6)	TRENCH	
*LSR-92	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 2, 4, 6)	TRENCH	
LSR-95	50	2 (ONE SPARE)	3" PVC	(8)#6, (1)#6 GROUND (CCTS 7, 9, 11, 8, 10, 12)	TRENCH-OPEN CUT/ COVER EXISTING ROAD	LTG CCTS FROM ARMSTRONG CORNER RD DISTRIBUTION CABINET C-04
LSR-96	80	1	3" PVC	(8)#6, (1)#6 GROUND (CCTS 7, 9, 11, 8, 10, 12)	TRENCH	
LSR-97	61	2 (ONE SPARE)	3" PVC	(4)#6, (1)#6 GROUND (CCTS 8, 10, 12)	TRENCH (PROP. PVMT)	
LSR-98	36	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 8, 10, 12)	TRENCH	
LSR-99	59	2 (ONE SPARE)	3" PVC	(4)#6, (1)#6 GROUND (CCTS 8, 10, 12)	TRENCH (PROP. PVMT)	
LSR-100	54	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 8)	TRENCH	
**LSR-101	164	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 8, 10, 12)	TRENCH	
LSR-106	15	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 7, 9, 11)	TRENCH	
**LSR-107	221	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 7, 9, 11)	TRENCH	

* CONTINUED FROM DWG. LI-16, LSR DISTANCE SHOWN ON LI-18 ** CONTINUED TO DWG. LI-18

NOTE A:
COORDINATE WITH DELMARVA POWER (DP&L) FOR 3 PHASE 277/480V SERVICE FROM THEIR NEW POLE/TRANSFORMER BANK. DP&L 3 PHASE 25kv UNDERGROUND (BY OTHERS).



ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T20091303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

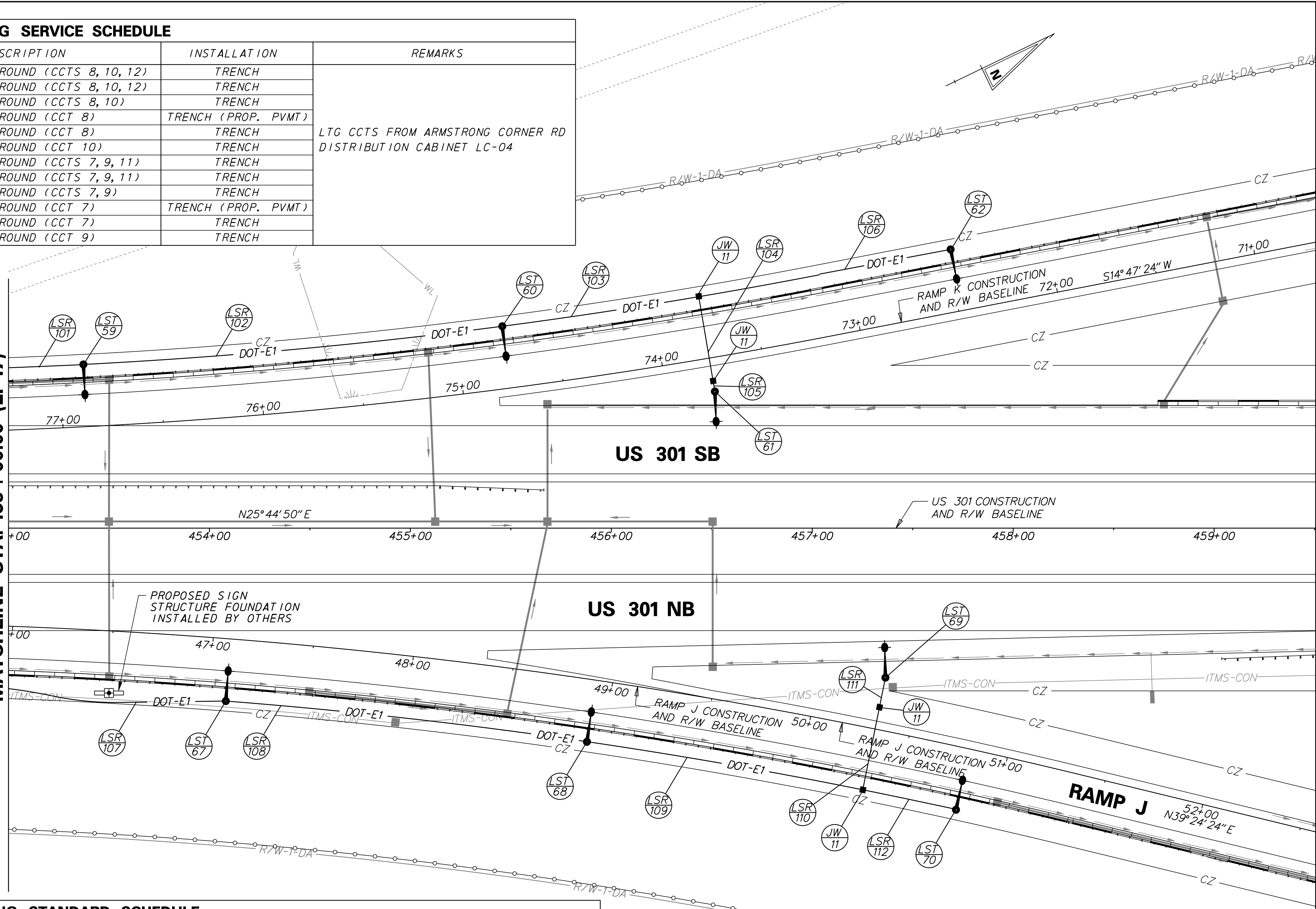
LIGHTING PLAN

LI-17	SHEET NO.
1016	
TOTAL SHTS.	
1256	

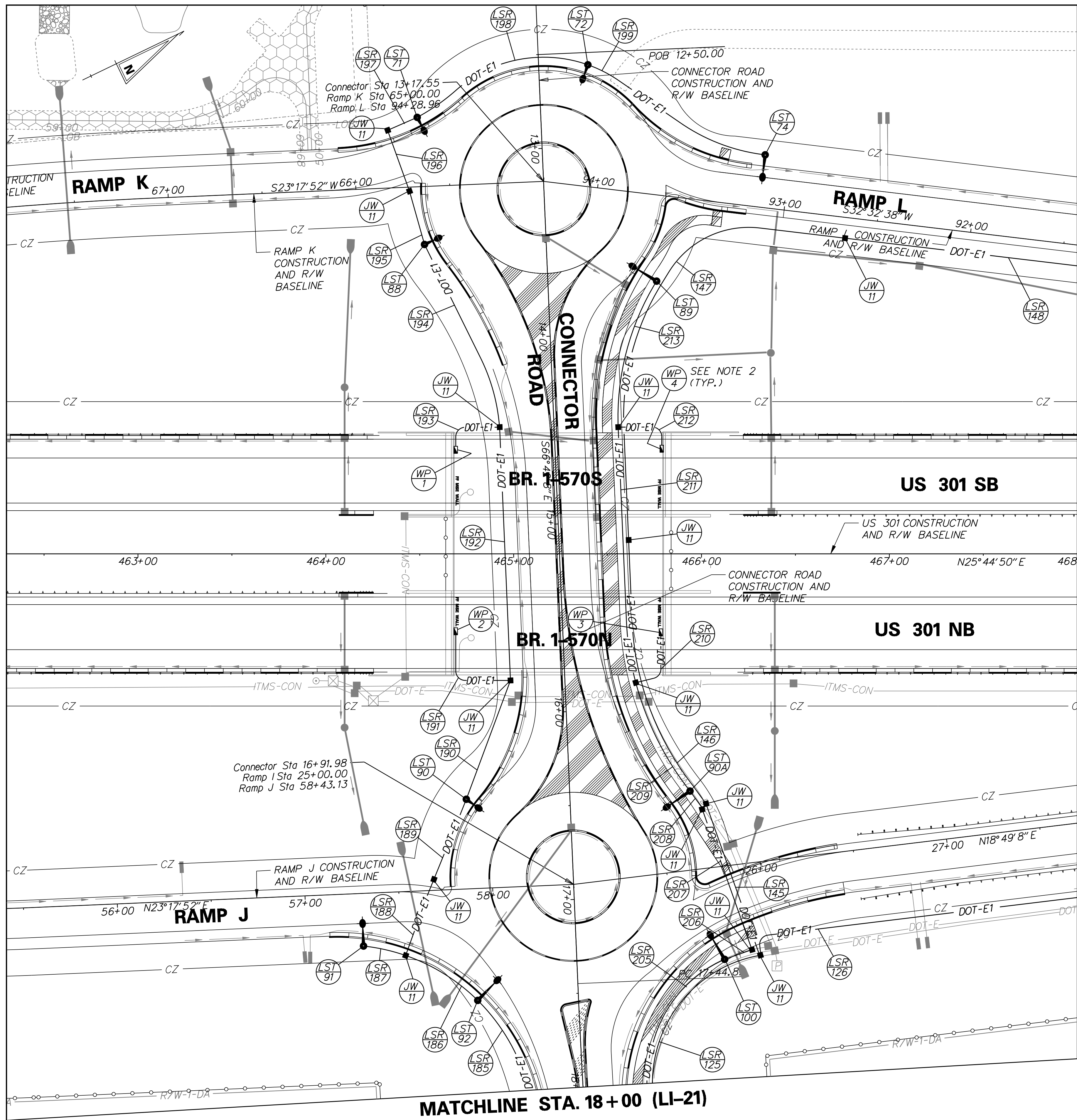
LIGHTING SERVICE SCHEDULE						
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
*LSR-101	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 8, 10, 12)	TRENCH	LTG CCTS FROM ARMSTRONG CORNER RD DISTRIBUTION CABINET LC-04
LSR-102	210	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 8, 10, 12)	TRENCH	
LSR-103	99	1	3" PVC	(3)#6, (1)#6 GROUND (CCTS 8, 10)	TRENCH	
LSR-104	43	2 (ONE SPARE)	3" PVC	(2)#6, (1)#6 GROUND (CCT 8)	TRENCH (PROP. PVMT)	
LSR-105	5	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 8)	TRENCH	
LSR-106	128	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 10)	TRENCH	
*LSR-107	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 7, 9, 11)	TRENCH	
LSR-108	181	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 7, 9, 11)	TRENCH	
LSR-109	140	1	3" PVC	(3)#6, (1)#6 GROUND (CCTS 7, 9)	TRENCH	
LSR-110	42	2 (ONE SPARE)	3" PVC	(2)#6, (1)#6 GROUND (CCT 7)	TRENCH (PROP. PVMT)	
LSR-111	15	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 7)	TRENCH	
LSR-112	48	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 9)	TRENCH	

* CONTINUED FROM DWG. LI-17, LSR DISTANCE SHOWN ON LI-17

MATCHLINE STA. 453+00.00 (LI-17)



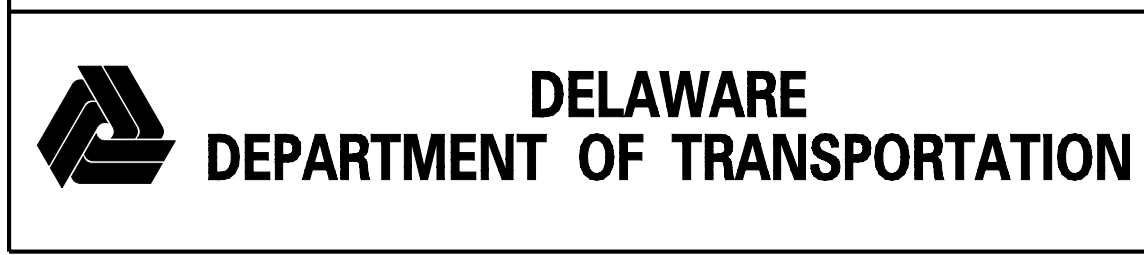
LIGHTING STANDARD SCHEDULE									
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-59	LC-04 CCT #10	76+88.17 B/L RAMP K	31.00' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-60	LC-04 CCT #12	74+76.40 B/L RAMP K	31.00' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-61	LC-04 CCT #8	73+76.36 B/L RAMP K	16.85' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-62	LC-04 CCT #10	72+48.14 B/L RAMP K	31.00' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-67	LC-04 CCT #9	47+08.68 B/L RAMP J	31.00' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-68	LC-04 CCT #11	48+91.68 B/L RAMP J	31.00' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-69	LC-04 CCT #7	50+32.67 B/L RAMP J	26.00' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-70	LC-04 CCT #9	50+80.66 B/L RAMP J	31.00' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS



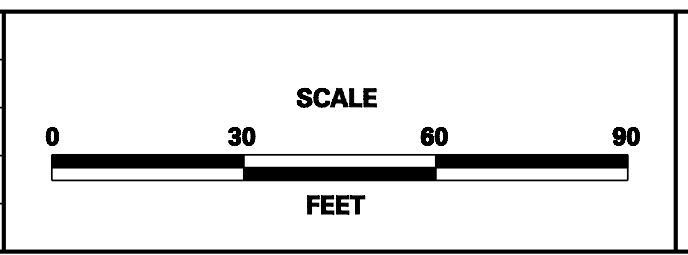
MATCHLINE STA. 468+00 (LI-22)

- CROSS REFERENCE NOTES:**
1. REFER TO DWG. LI-20 FOR LIGHTING STANDARD AND LIGHTING SERVICE SCHEDULES.
 2. FOR 'WP' - WALL PACK LIGHT FIXTURES, REFER TO DETAIL ON DWG. LI-27.

\$FILES
\$DATES
\$USERS



ADDENDUMS / REVISIONS



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: A. AGGARWAL
	CHECKED BY: D. L. BAKER

LIGHTING PLAN

LI-19
SHEET NO. 1018
TOTAL SHTS. 1256

LIGHTING SERVICE SCHEDULE

SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
*LSR-125	-	1	3" PVC	(4)#4, (4)#4, (1)#4 GROUND, CCTS (1, 3, 5, 2, 4, 6)	TRENCH	LTG CCTS FROM 277/480V LTG DISTRIBUTION CABINET LC-05 (N-W CORNER)
*LSR-126	244	1	3" PVC	(4)#4, (1)#4 GROUND, (CCTS 1, 3, 5)	TRENCH	
LSR-145	86	2 (ONE SPARE)	3" PVC	(4)#4, (1)#4 GROUND, (CCTS 2, 4, 6)	TRENCH	
LSR-146	150	1	3" PVC	(4)#4, (1)#4 GROUND, (CCTS 2, 4, 6)	TRENCH	
LSR-147	250	1	3" PVC	(4)#4, (1)#4 GROUND, (CCTS 2, 4, 6)	TRENCH	
*LSR-148	175	1	3" PVC	(4)#4, (1)#4 GROUND, (CCTS 2, 4, 6)	TRENCH	
*LSR-185	-	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 6, 8)	TRENCH	
LSR-186	46	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 6, 8)	TRENCH	
LSR-187	23	1	3" PVC	(2)#6, (1)#6 GROUND, (CCT 8)	TRENCH	
LSR-188	44	2 (ONE SPARE)	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 6, 8)	TRENCH	
LSR-189	46	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 6, 8)	TRENCH	LTG CCTS FROM 240/120V LTG DISTRIBUTION CABINET LC-06 (SW CORNER)
LSR-190	68	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 6, 8)	TRENCH	
LSR-191	65	1	1" RGS	(2)#6, (1)#6 GROUND, (CCTS 8)	TRENCH IN GRADE AND THEN EXPOSED CONDUIT TO WALL FIXTURE ALONG MSE WALL	
LSR-192	135	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 6, 8)	TRENCH	
LSR-193	49	1	1" RGS	(2)#6, (1)#6 GROUND, (CCT 6)	TRENCH IN GRADE AND THEN EXPOSED CONDUIT TO WALL FIXTURE ALONG MSE WALL	
LSR-194	110	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 6, 8)	TRENCH	
LSR-195	30	2 (ONE SPARE)	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 6, 8)	TRENCH	
LSR-196	35	2 (ONE SPARE)	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 6, 8)	TRENCH	
LSR-197	18	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 6, 8)	TRENCH	
LSR-198	101	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 6, 8)	TRENCH	
LSR-199	107	1	3" PVC	(2)#4, (1)#4 GROUND, (CCT 6)	TRENCH	
*LSR-205	-	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 9, 11)	TRENCH	
LSR-206	16	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 9, 11)	TRENCH	
LSR-207	80	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 9, 11)	TRENCH	
LSR-208	12	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 9, 11)	TRENCH	
LSR-209	65	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 9, 11)	TRENCH	
LSR-210	46	1	1" RGS	(2)#6, (1)#6 GROUND, (CCT 11)	TRENCH IN GRADE AND THEN EXPOSED CONDUIT TO WALL FIXTURE ALONG MSE WALL	
LSR-211	136	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 9, 11)	TRENCH	
LSR-212	44	1	1" RGS	(2)#6, (1)#6 GROUND, (CCT 9)	TRENCH IN GRADE AND THEN EXPOSED CONDUIT TO WALL FIXTURE ALONG MSE WALL	
LSR-213	85	1	3" PVC	(2)#4, (1)#4 GROUND, (CCT 11)	TRENCH	

* CONTINUED FROM DWG. LI-21
 ** CONTINUED TO DWG. LI-22

LIGHTING STANDARD SCHEDULE

NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-71	LC-06 (240/120V)-CCT 6	65+65.80 B/L RAMP K	36.90' RT	30'	8'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY XMFR BASE	111	150W HPS
LST-72	LC-06 (240/120V)-CCT 8	94+12.87 B/L RAMP L	64.40' RT	30'	8'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY XMFR BASE	111	150W HPS
LST-74	LC-06-240/120V-CCT 6	93+13.50 B/L RAMP L	28.00' RT	30'	12'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY XMFR BASE	111	150W HPS
LST-88	LC-06 240/120V-CCT 8	65+75.00 B/L RAMP K	30.83' LT	30'	8'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY XMFR BASE	111	150W HPS
LST-89	LC-06-240/120V-CCT 11	93+61.20 B/L RAMP L	49.60' LT	30'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY XMFR BASE	111	150W HPS
LST-90	LC-06-240/120V-CCT 6	57+88.00 B/L RAMP J	47.70' LT	30'	8'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY XMFR BASE	111	150W HPS
LST-90A	LC-06-240/120V-CCT 9	25+67.50 B/L RAMP I	41.80' LT	30'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY XMFR BASE	111	150W HPS
LST-91	LC-06-240/120V-CCT 8	57+30.00 B/L RAMP J	28.00' RT	30'	12'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY XMFR BASE	111	150W HPS
LST-92	LC-06-240/120V-CCT 6	57+89.00 B/L RAMP J	59.50' RT	30'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY XMFR BASE	111	150W HPS
LST-100	LC-240/120V-CCT 11	25+75.00 B/L RAMP I	49.30' RT	30'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY XMFR BASE	111	150W HPS
WP-1	LC-240/120V-CCT 6	14+58.25 B/L CR		13'	NA	WALL PACK	WALL MOUNT FLOODLIGHT		200W HPS
WP-2	LC-240/120V-CCT 8	15+54.70 B/L CR		13'	NA	WALL PACK	WALL MOUNT FLOODLIGHT		200W HPS
WP-3	LC-240/120V-CCT 11	15+60.00 B/L CR		13'	NA	WALL PACK	WALL MOUNT FLOODLIGHT		200W HPS
WP-4	LC-240/120V-CCT 9	14+62.40 B/L CR		13'	NA	WALL PACK	WALL MOUNT FLOODLIGHT		200W HPS

\$FILES

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ADDENDUMS / REVISIONS

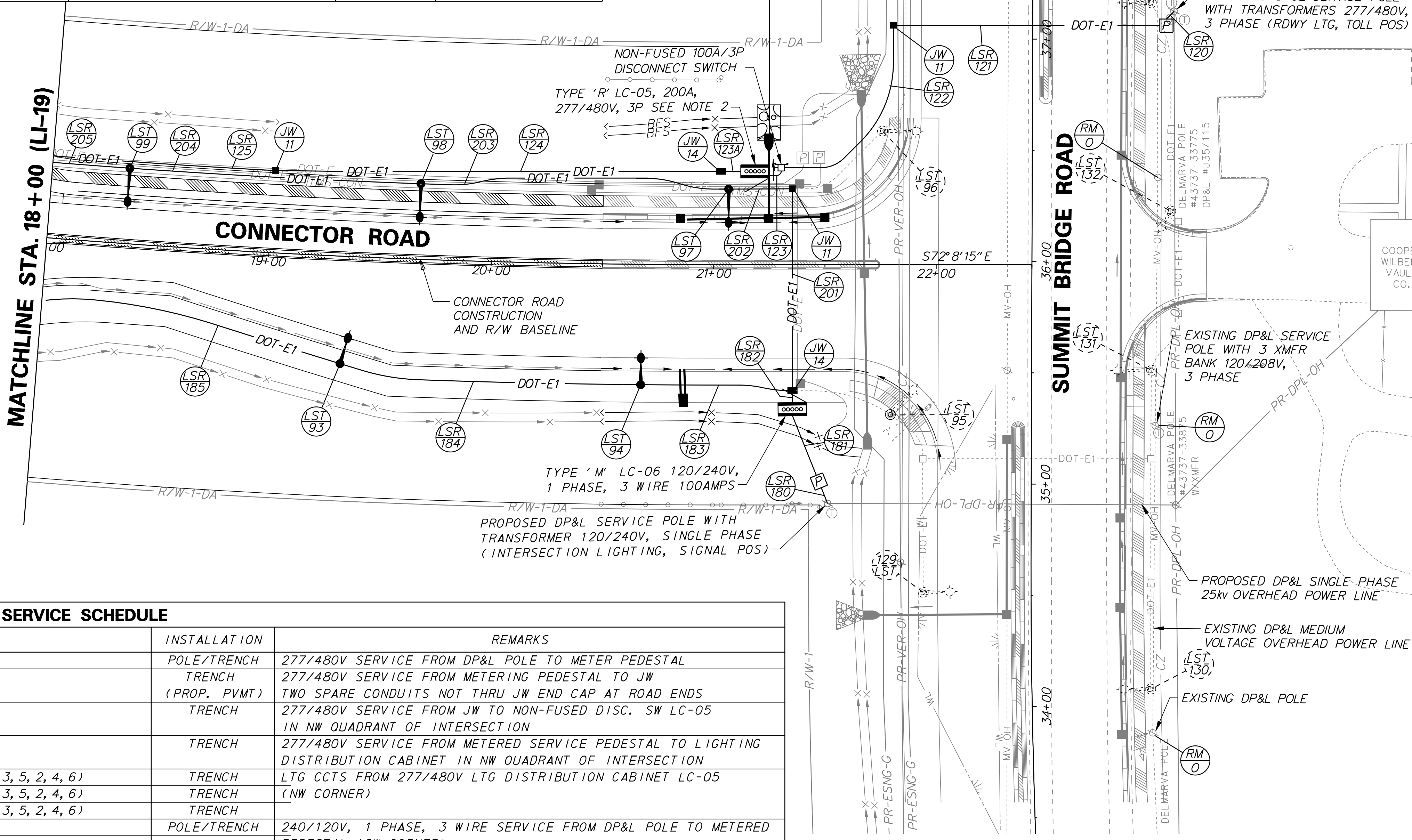
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

**LIGHTING PLAN
LIGHTING SCHEDULES**

LI-20
SHEET NO.
1019
TOTAL SHTS.
1256

LIGHTING STANDARD SCHEDULE									
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-93	LC-06 240/120V CCT #8	19+34 B/L SBC RD	48.30' RT	30'	12'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	150W HPS
LST-94	LC-06 240/120V CCT #6	20+67 B/L SBC RD	54.10' RT	30'	12'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	150W HPS
LST-97	LC-06 240/120V CCT #9	21+07 B/L SBC RD	34.25' LT	30'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	150W HPS
LST-98	LC-06 240/120V CCT #11	19+68 B/L SBC RD	34.25' LT	30'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	150W HPS
LST-99	LC-06 240/120V CCT #9	18+35 B/L SBC RD	34.25' LT	30'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	150W HPS



LIGHTING SERVICE SCHEDULE						
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
LSR-120	35	1	2" RGS	(4) #1/0, (1) #6 GROUND	POLE/TRENCH	277/480V SERVICE FROM DP&L POLE TO METER PEDESTAL
LSR-121	125	3 (1 FOR TOLL BOOTH/ITMS AND ONE SPARE)	2 1/2" PVC	(4) #1/0, (1) #6 GROUND	TRENCH (PROP. PVMT)	277/480V SERVICE FROM METERING PEDESTAL TO JW TWO SPARE CONDUITS NOT THRU JW END CAP AT ROAD ENDS
LSR-122	100	1	2 1/2" PVC	(4) #1/0	TRENCH	277/480V SERVICE FROM JW TO NON-FUSED DISC. SW LC-05 IN NW QUADRANT OF INTERSECTION
LSR-123	12	1	2 1/2" PVC	(4) #1/0, (1) #6 GROUND	TRENCH	277/480V SERVICE FROM METERED SERVICE PEDESTAL TO LIGHTING DISTRIBUTION CABINET IN NW QUADRANT OF INTERSECTION
LSR-123A	10	4 (3 SPARE)	4" PVC	(8) #4, (1) #4 GROUND, (CCTS 1, 3, 5, 2, 4, 6)	TRENCH	LTG CCTS FROM 277/480V LTG DISTRIBUTION CABINET LC-05 (NW CORNER)
LSR-124	220	1	3" PVC	(8) #4, (1) #4 GROUND, (CCTS 1, 3, 5, 2, 4, 6)	TRENCH	
*LSR-125	197	1	3" PVC	(8) #4, (1) #4 GROUND, (CCTS 1, 3, 5, 2, 4, 6)	TRENCH	
LSR-180	40	1	2" RGS	(3) #2	POLE/TRENCH	240/120V, 1 PHASE, 3 WIRE SERVICE FROM DP&L POLE TO METERED PEDESTAL (SW CORNER)
LSR-181	40	1	2" PVC	(3) #2, (1) #4 GROUND	TRENCH	240/120V SERVICE FROM METERED PEDESTAL TO THE LIGHTING DISTRIBUTION CABINET LC-06 (SW CORNER)
LSR-182	10	4 (THREE SPARE-TWO FOR INTERSECTION LTG)	4" PVC	(3) #4, (1) #4 GROUND (CCT 6, 8); (3) #4, (1) #4 GROUND (CCT 9, 11) IN ONE CONDUIT	TRENCH	LTG CCTS FROM 240/120V LTG DISTRIBUTION CABINET LC-06 (SW CORNER)
LSR-183	67	1	3" PVC	(3) #4, (1) #4 GROUND (CCT 6, 8)	TRENCH	
LSR-184	136	1	3" PVC	(3) #4, (1) #4 GROUND (CCT 6, 8)	TRENCH	
*LSR-185	195	1	3" PVC	(3) #4, (1) #4 GROUND (CCT 6, 8)	TRENCH	
LSR-201	85	3 (TWO SPARE- ONE FOR INTERSECTION LTG)	3" PVC	(3) #4, (1) #4 GROUND (CCT 9, 11)	TRENCH (PROP. PVMT)	LTG CCTS FROM 240/120V LTG DISTRIBUTION CABINET LC-06 (SW CORNER)
LSR-202	29	1	3" PVC	(3) #4, (1) #4 GROUND (CCT 9, 11)	TRENCH	
LSR-203	139	1	3" PVC	(3) #4, (1) #4 GROUND (CCT 9, 11)	TRENCH	
LSR-204	131	1	3" PVC	(3) #4, (1) #4 GROUND (CCT 9, 11)	TRENCH	
*LSR-205	118	1	3" PVC	(3) #4, (1) #4 GROUND (CCT 9, 11)	TRENCH	

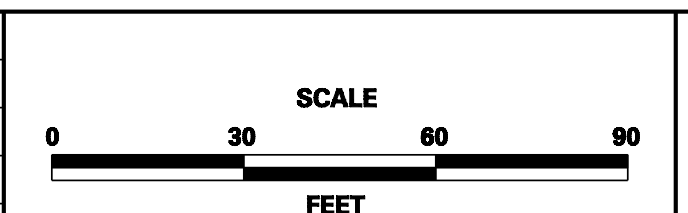
* CONTINUED TO DWG. LI-19

- NOTES:
- INTERSECTION LIGHTING POLES (LST-95, LST-96 AND LST-129 THRU LST-134 QTY. 8 TOTAL) AND CORRESPONDING UNDERGROUND CONDUITS WILL BE INSTALLED UNDER CONTRACT T201011301. COORDINATE WITH CONTRACT T201011301 FOR INSTALLATION OF LIGHTING DISTRIBUTION CABINETS LC-05 AND LC-06 AND THE SERVICE DROPS UNDER THIS CONTRACT.
 - COORDINATE WITH OTHER DISCIPLINE CONTRACTORS FOR LOCATION OF LC-05. SUBMIT A DETAILED DIMENSIONED SKETCH SHOWING LOCATION OF LC-05, DISCONNECT SWITCH, OTHER SERVICE PEDESTALS AND JUNCTION WELLS TO THE ENGINEER FOR APPROVAL PRIOR TO ROUGH-IN.

\$FILES
 \$DATES
 \$USERS



ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

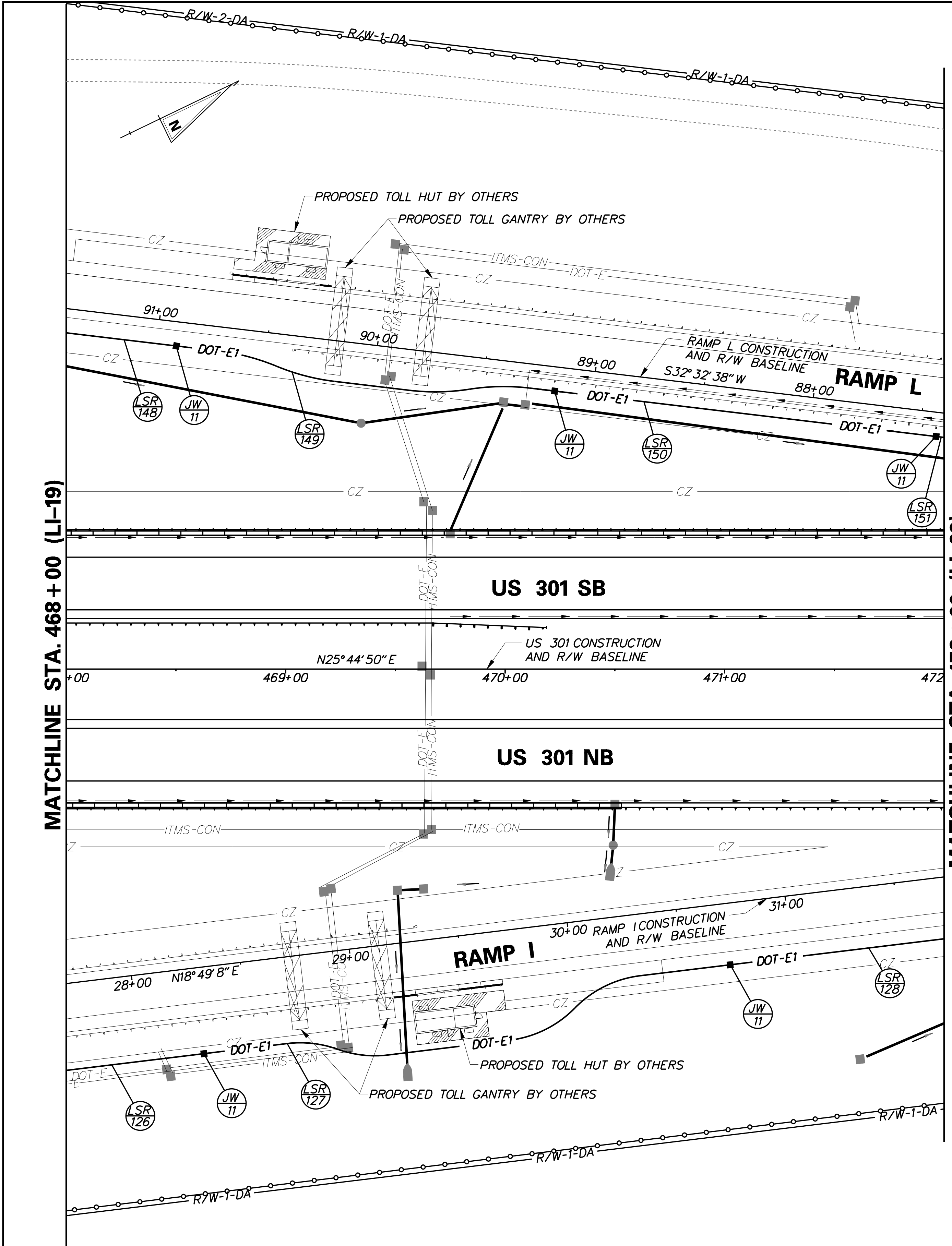
LIGHTING PLAN	SHEET NO.
	1020
	TOTAL SHTS.
	1256

LI-21

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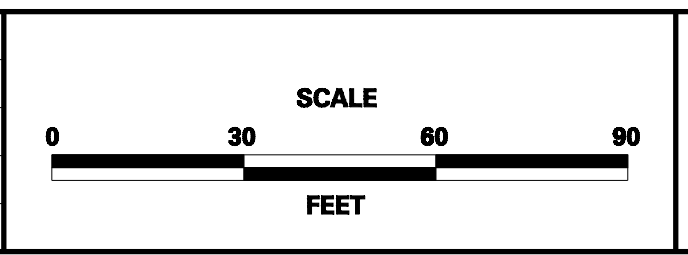


LIGHTING SERVICE SCHEDULE						
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
*LSR-126	-	1	3" PVC	(4)#4, #4 GROUND, CCTS (1, 3, 5)	TRENCH	LTG CCTS FROM SBR/CONNECTOR RD INTERSECTION LTG 277/480V DISTRIBUTION CABINET LC-05
LSR-127	250	1	3" PVC	(4)#4, #4 GROUND, CCTS (1, 3, 5)	TRENCH	
**LSR-128	220	1	3" PVC	(4)#4, #4 GROUND, CCTS (1, 3, 5)	TRENCH	
*LSR-148	-	1	3" PVC	(4)#4, #4 GROUND, CCTS (2, 4, 6)	TRENCH	
LSR-149	175	1	3" PVC	(4)#4, #4 GROUND, CCTS (2, 4, 6)	TRENCH	
LSR-150	175	1	3" PVC	(4)#4, #4 GROUND, CCTS (2, 4, 6)	TRENCH	
**LSR-151	247	1	3" PVC	(4)#4, #4 GROUND, CCTS (2, 4, 6)	TRENCH	

* CONTINUED FROM DWG. LI-19
 ** CONTINUED TO DWG. LI-23

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

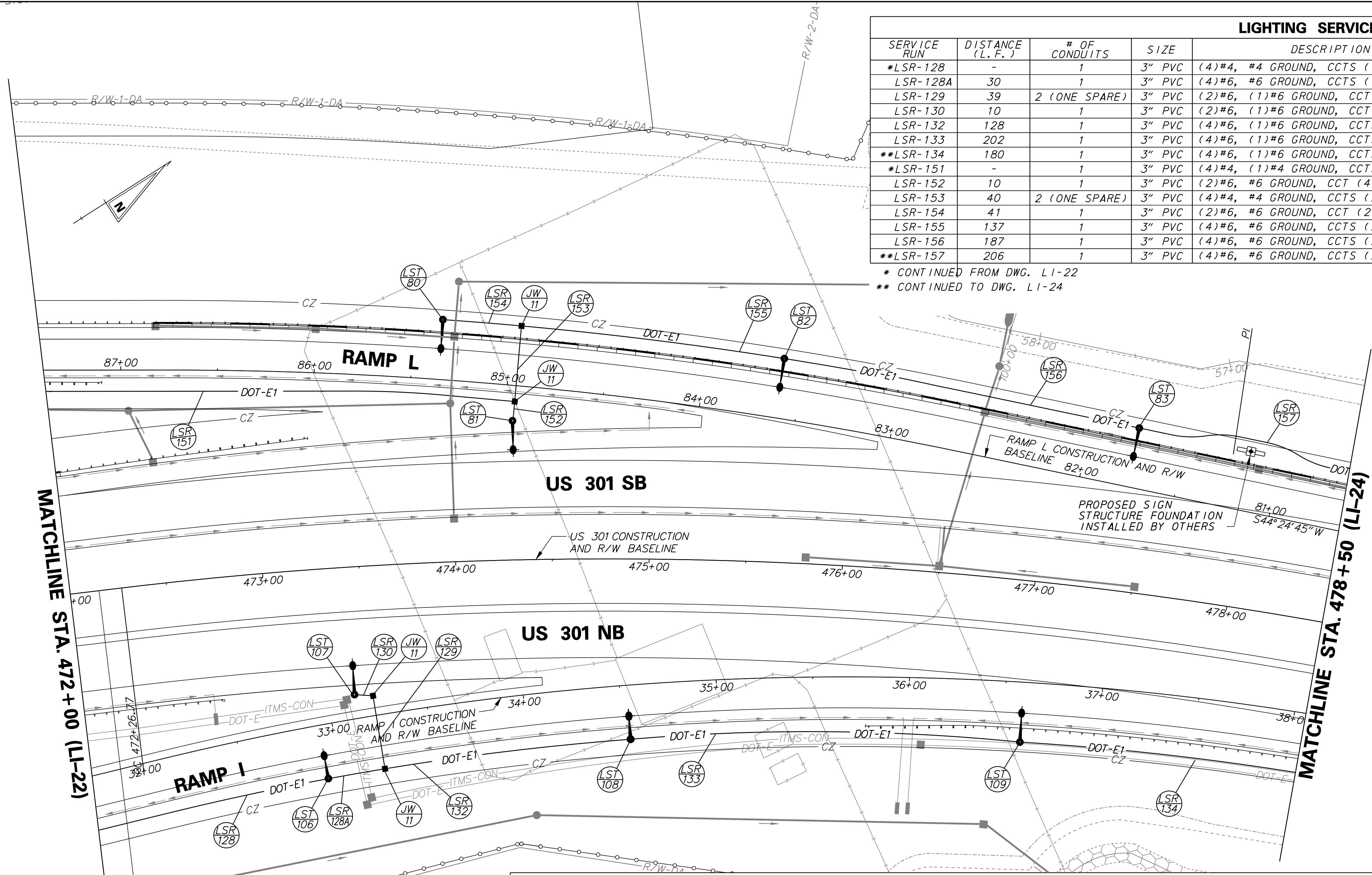
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

LIGHTING PLAN

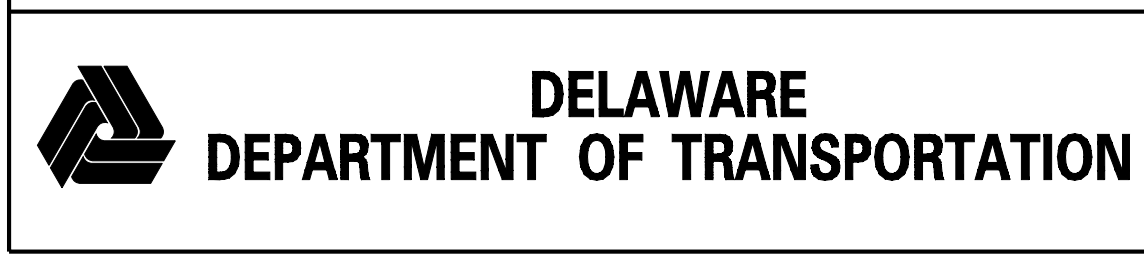
LI-22
SHEET NO.
1021
TOTAL SHTS.
1256

LIGHTING SERVICE SCHEDULE						
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
*LSR-128	-	1	3" PVC	(4)#4, #4 GROUND, CCTS (1, 3, 5,)	TRENCH	LTG CCTS FROM SBR/CONNECTOR RD INTERSECTION 277/480V LIGHTING DISTRIBUTION CABINET LC-05
LSR-128A	30	1	3" PVC	(4)#6, #6 GROUND, CCTS (1, 3, 5,)	TRENCH	
LSR-129	39	2 (ONE SPARE)	3" PVC	(2)#6, (1)#6 GROUND, CCT (3)	TRENCH UNDER PVMT	
LSR-130	10	1	3" PVC	(2)#6, (1)#6 GROUND, CCT (3)	TRENCH	
LSR-132	128	1	3" PVC	(4)#6, (1)#6 GROUND, CCTS (1, 3, 5)	TRENCH	
LSR-133	202	1	3" PVC	(4)#6, (1)#6 GROUND, CCTS (1, 3, 5)	TRENCH	
**LSR-134	180	1	3" PVC	(4)#6, (1)#6 GROUND, CCTS (1, 3, 5)	TRENCH	
*LSR-151	-	1	3" PVC	(4)#4, (1)#4 GROUND, CCTS (2, 4, 6)	TRENCH	
LSR-152	10	1	3" PVC	(2)#6, #6 GROUND, CCT (4)	TRENCH	
LSR-153	40	2 (ONE SPARE)	3" PVC	(4)#4, #4 GROUND, CCTS (2, 4, 6)	TRENCH UNDER PVMT	
LSR-154	41	1	3" PVC	(2)#6, #6 GROUND, CCT (2)	TRENCH	
LSR-155	137	1	3" PVC	(4)#6, #6 GROUND, CCTS (2, 4, 6)	TRENCH	
LSR-156	187	1	3" PVC	(4)#6, #6 GROUND, CCTS (2, 4, 6)	TRENCH	
**LSR-157	206	1	3" PVC	(4)#6, #6 GROUND, CCTS (2, 4, 6)	TRENCH	

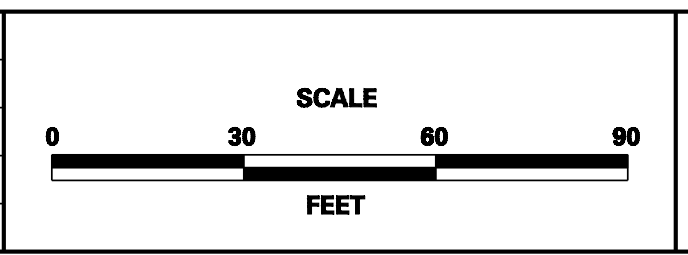
* CONTINUED FROM DWG. LI-22
 ** CONTINUED TO DWG. LI-24



LIGHTING STANDARD SCHEDULE									
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-80	LC-05 480/277V CCT #2	85+35.50	31.00' RT	40'	15'	COBRAHEAD	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-81	LC-05 480/277V CCT #4	84+95.36	18.25' RT	40'	15'	DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-82	LC-05 480/277V CCT #6	83+60.50	31.00' RT	40'	15'	COBRAHEAD	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-83	LC-05 480/277V CCT #2	81+75.00	31.00' RT	40'	15'	DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-106	LC-05 480/277V CCT #1	32+93.00	28.00' RT	40'	12'	COBRAHEAD	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-107	LC-05 480/277V CCT #3	33+14.00	12.40' RT	40'	15'	DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-108	LC-05 480/277V CCT #5	34+53.50	28.00' RT	40'	12'	COBRAHEAD	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-109	LC-05 480/277V CCT #1	36+59.00	31.00' RT	40'	15'	DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS



ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T20091303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

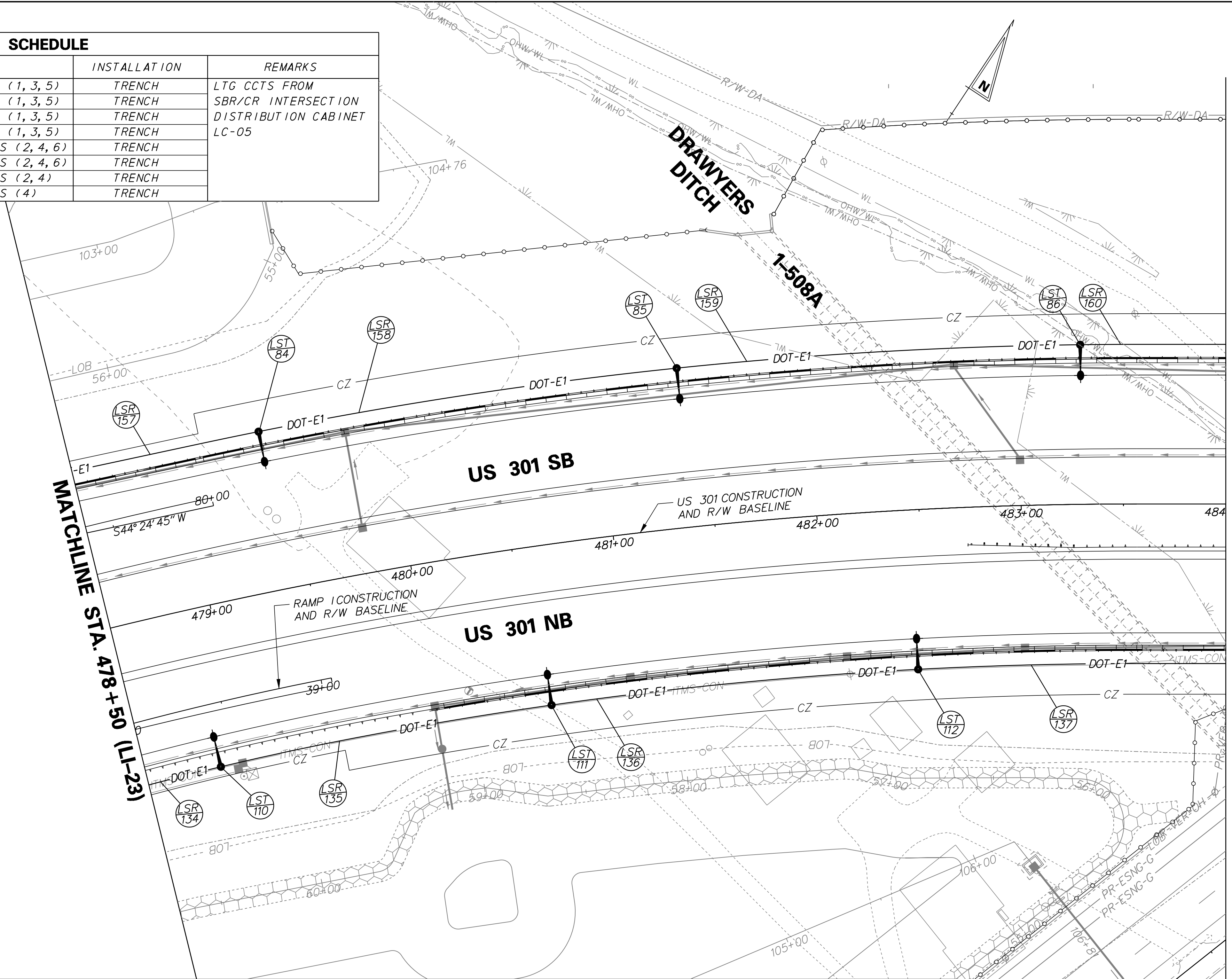
LIGHTING PLAN	SHEET NO.
	1022
	TOTAL SHTS.
	1256

\$FILES \$DATES \$USERS

LI-23

LIGHTING SERVICE SCHEDULE						
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
**LSR-134	-	1	3" PVC	(4)#6, (1)#6 GROUND CCTS (1, 3, 5)	TRENCH	LTG CCTS FROM SBR/CR INTERSECTION DISTRIBUTION CABINET LC-05
LSR-135	165	1	3" PVC	(4)#6, (1)#6 GROUND CCTS (1, 3, 5)	TRENCH	
LSR-136	180	1	3" PVC	(4)#6, (1)#6 GROUND CCTS (1, 3, 5)	TRENCH	
*LSR-137	175	1	3" PVC	(4)#6, (1)#6 GROUND CCTS (1, 3, 5)	TRENCH	
**LSR-157	-	1	3" PVC	(4)#6, (1)#6 GROUND, CCTS (2, 4, 6)	TRENCH	
LSR-158	207	1	3" PVC	(4)#6, (1)#6 GROUND, CCTS (2, 4, 6)	TRENCH	
LSR-159	198	1	3" PVC	(3)#6, (1)#6 GROUND, CCTS (2, 4)	TRENCH	
*LSR-160	206	1	3" PVC	(2)#6, (1)#6 GROUND, CCTS (4)	TRENCH	

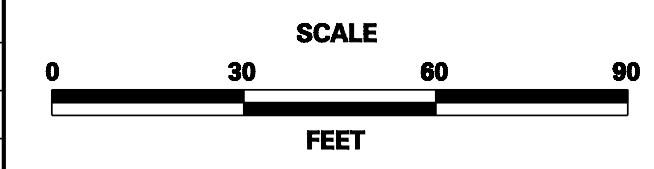
* CONTINUED TO DWG. LI-24
 ** CONTINUED FROM DWG. LI-22



LIGHTING STANDARD SCHEDULE									
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-84	LC-05 480/277V CCT #4	479+40.00 B/L US 301	78.00' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-85	LC-05 480/277V CCT #6	481+39.50 B/L US 301	78.00' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-86	LC-05 480/277V CCT #2	483+30.00 B/L US 301	78.00' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-110	LC-05 480/277V CCT #3	38+42.50 B/L RAMP 1	31.00' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-111	LC-05 480/277V CCT #5	480+58.50 B/L US 301	78.00' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS
LST-112	LC-05 480/277V CCT #1	482+45.50 B/L US 301	78.00' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	III	250W HPS



ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: A. AGGARWAL
	CHECKED BY: D. L. BAKER

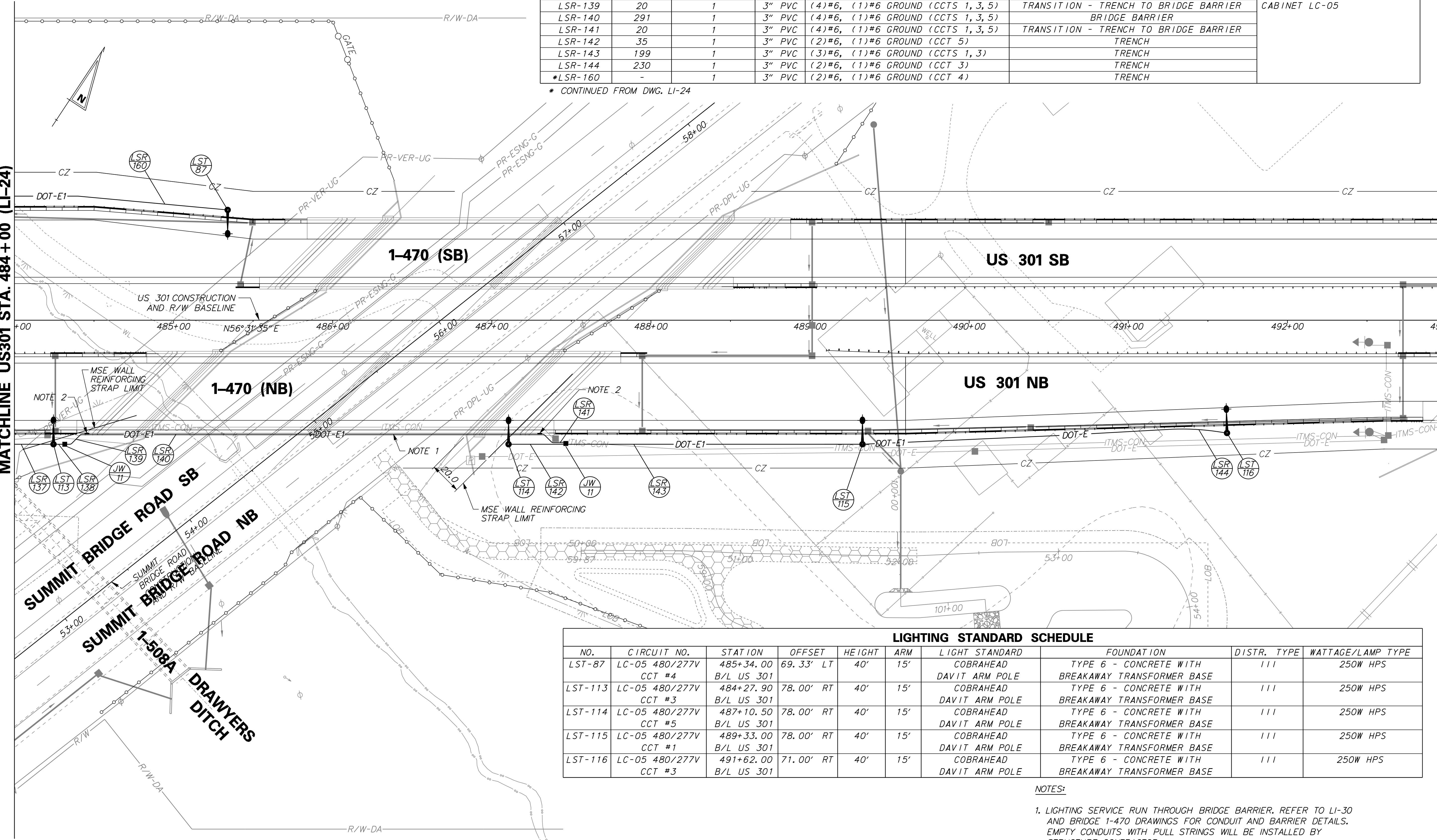
LIGHTING PLAN
LI-24
SHEET NO. 1023
TOTAL SHTS. 1256

\$FILES
\$DATES
\$USERS

SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
*LSR-137	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	LTG CCTS FROM CONNECTOR RD INTERSECTION DISTRIBUTION CABINET LC-05
LSR-138	10	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
LSR-139	20	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRANSITION - TRENCH TO BRIDGE BARRIER	
LSR-140	291	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	BRIDGE BARRIER	
LSR-141	20	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1, 3, 5)	TRANSITION - TRENCH TO BRIDGE BARRIER	
LSR-142	35	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 5)	TRENCH	
LSR-143	199	1	3" PVC	(3)#6, (1)#6 GROUND (CCTS 1, 3)	TRENCH	
LSR-144	230	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 3)	TRENCH	
*LSR-160	-	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 4)	TRENCH	

* CONTINUED FROM DWG. LI-24

MATCHLINE US301 STA. 484+00 (LI-24)



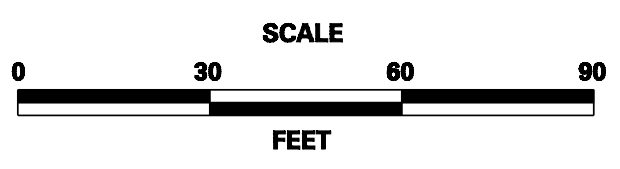
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE
LST-87	LC-05 480/277V CCT #4	485+34.00 B/L US 301	69.33' LT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-113	LC-05 480/277V CCT #3	484+27.90 B/L US 301	78.00' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-114	LC-05 480/277V CCT #5	487+10.50 B/L US 301	78.00' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-115	LC-05 480/277V CCT #1	489+33.00 B/L US 301	78.00' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS
LST-116	LC-05 480/277V CCT #3	491+62.00 B/L US 301	71.00' RT	40'	15'	COBRAHEAD DAVIT ARM POLE	TYPE 6 - CONCRETE WITH BREAKAWAY TRANSFORMER BASE	111	250W HPS

NOTES:

- LIGHTING SERVICE RUN THROUGH BRIDGE BARRIER. REFER TO LI-30 AND BRIDGE 1-470 DRAWINGS FOR CONDUIT AND BARRIER DETAILS. EMPTY CONDUITS WITH PULL STRINGS WILL BE INSTALLED BY STRUCTURE CONTRACTOR.
- JUNCTION BOX IN BARRIER WILL BE INSTALLED BY STRUCTURE CONTRACTOR. REFER TO LI-30 FOR DETAILS.



ADDENDUMS / REVISIONS



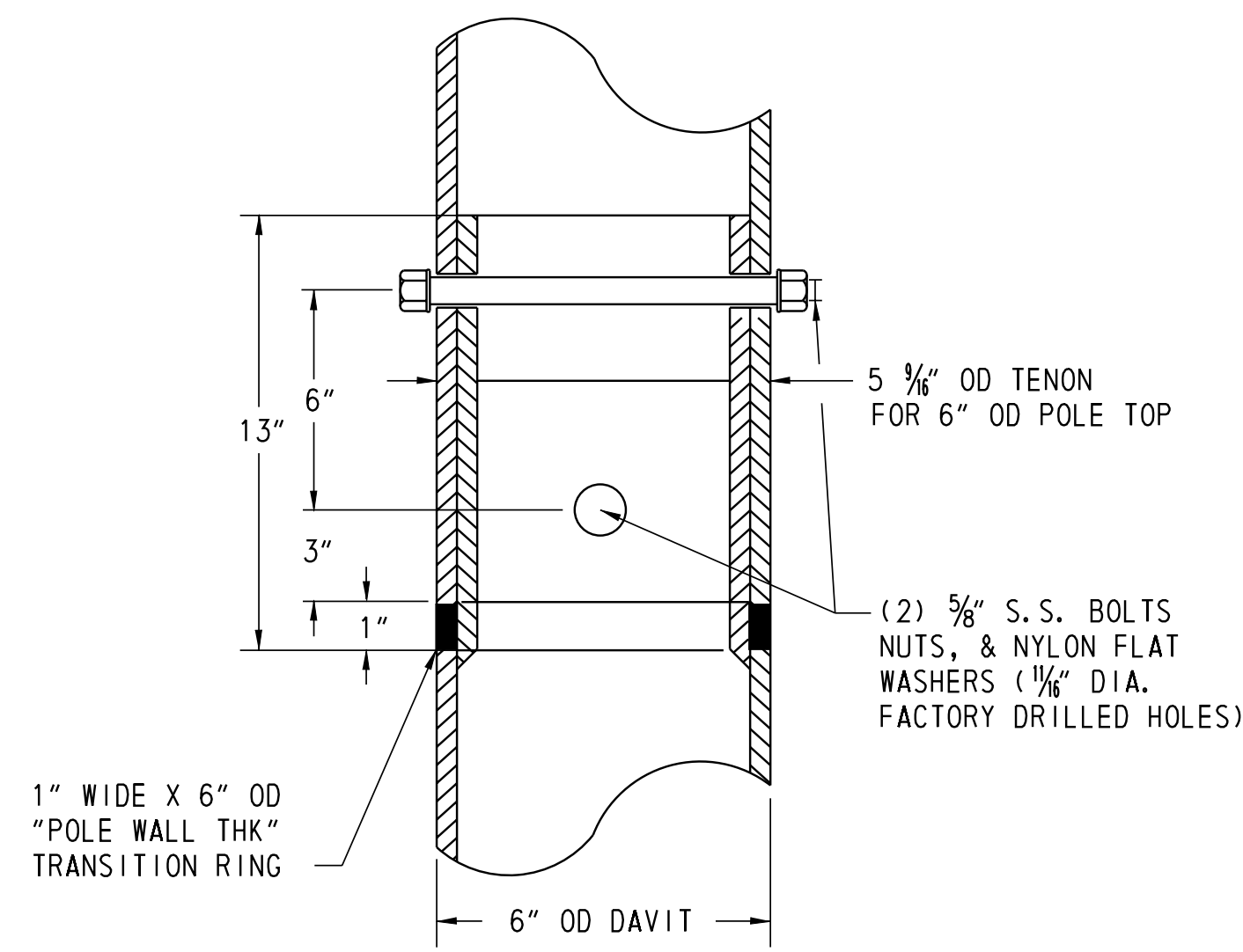
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

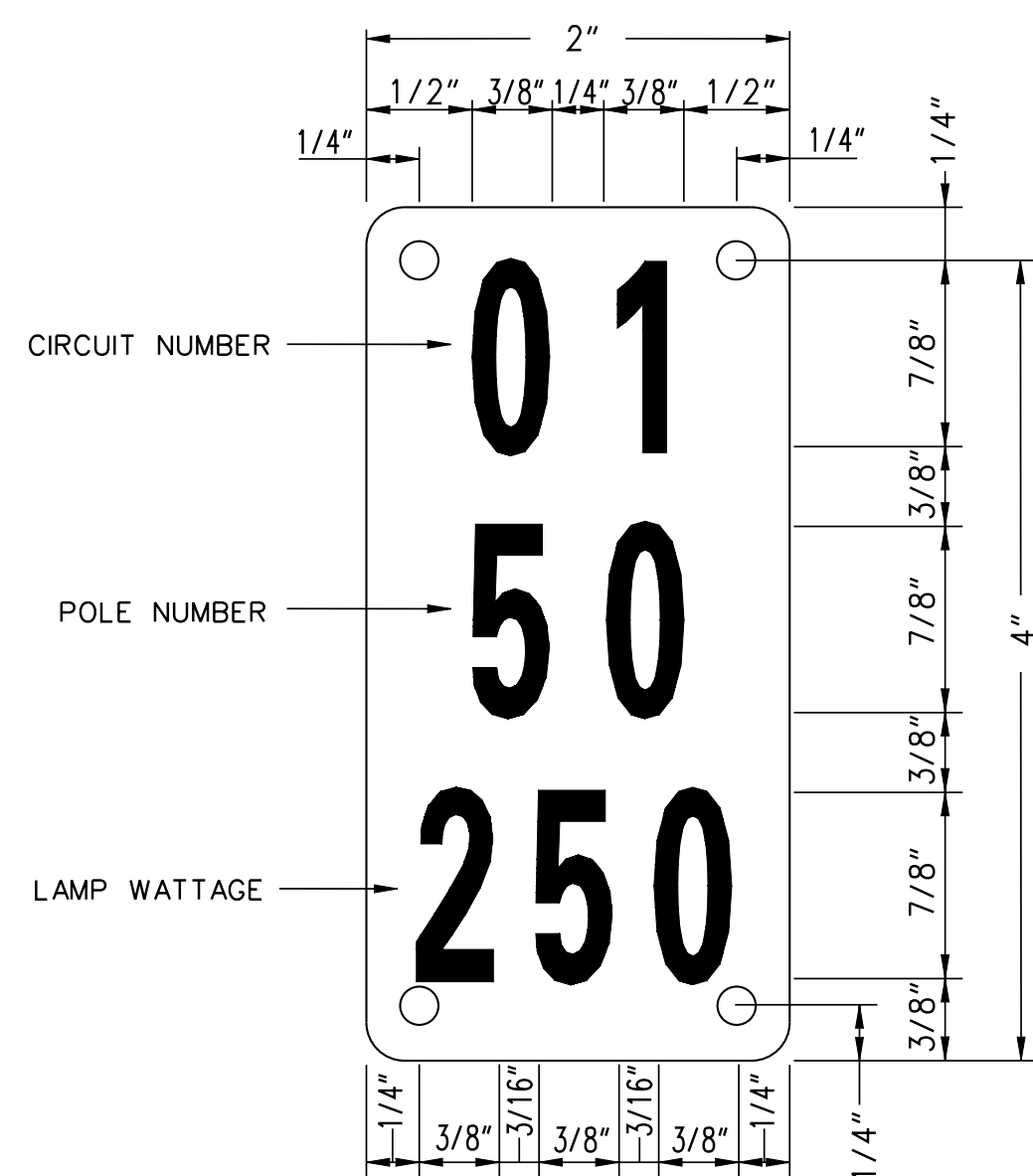
LIGHTING PLAN

LI-25
SHEET NO.
1024
TOTAL SHTS.
1256

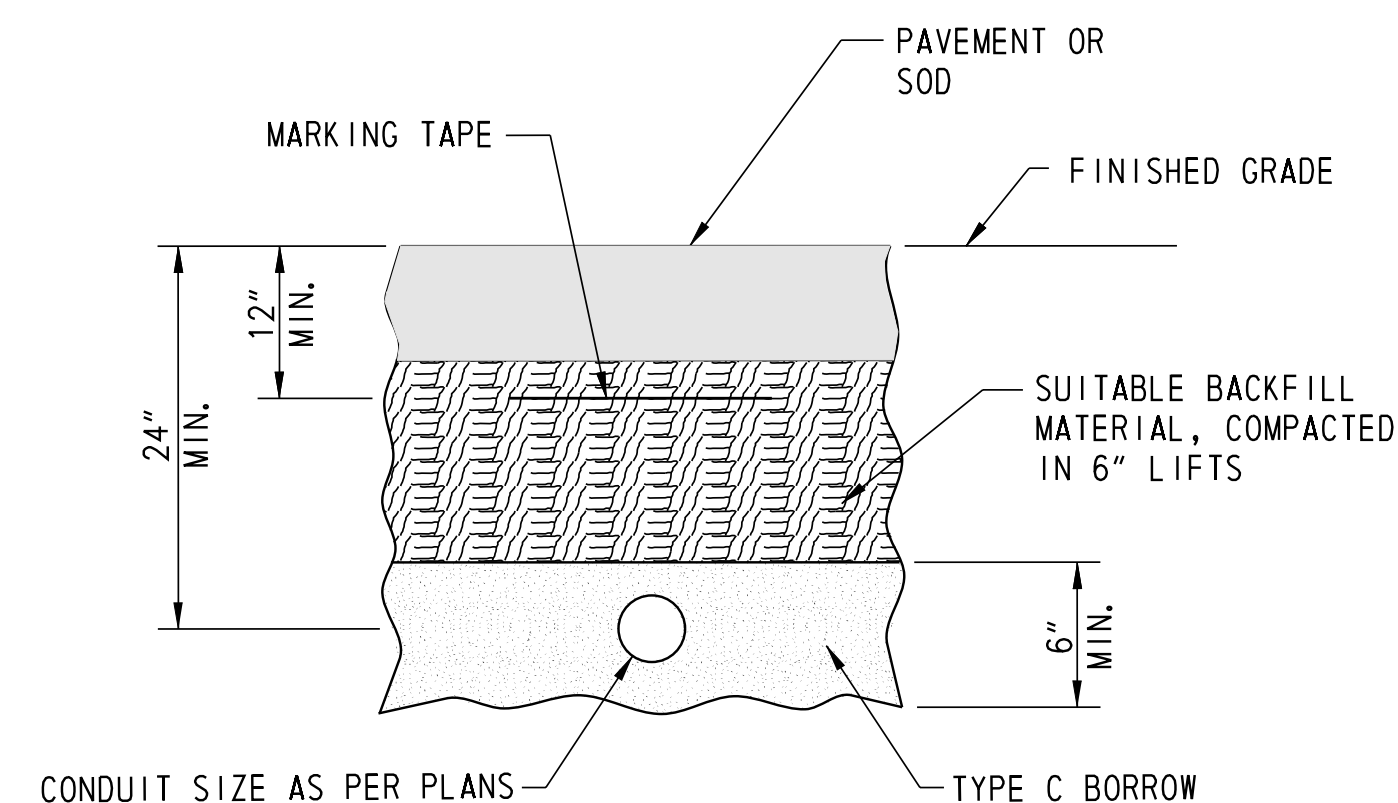
\$FILES
\$DATES
\$USERS



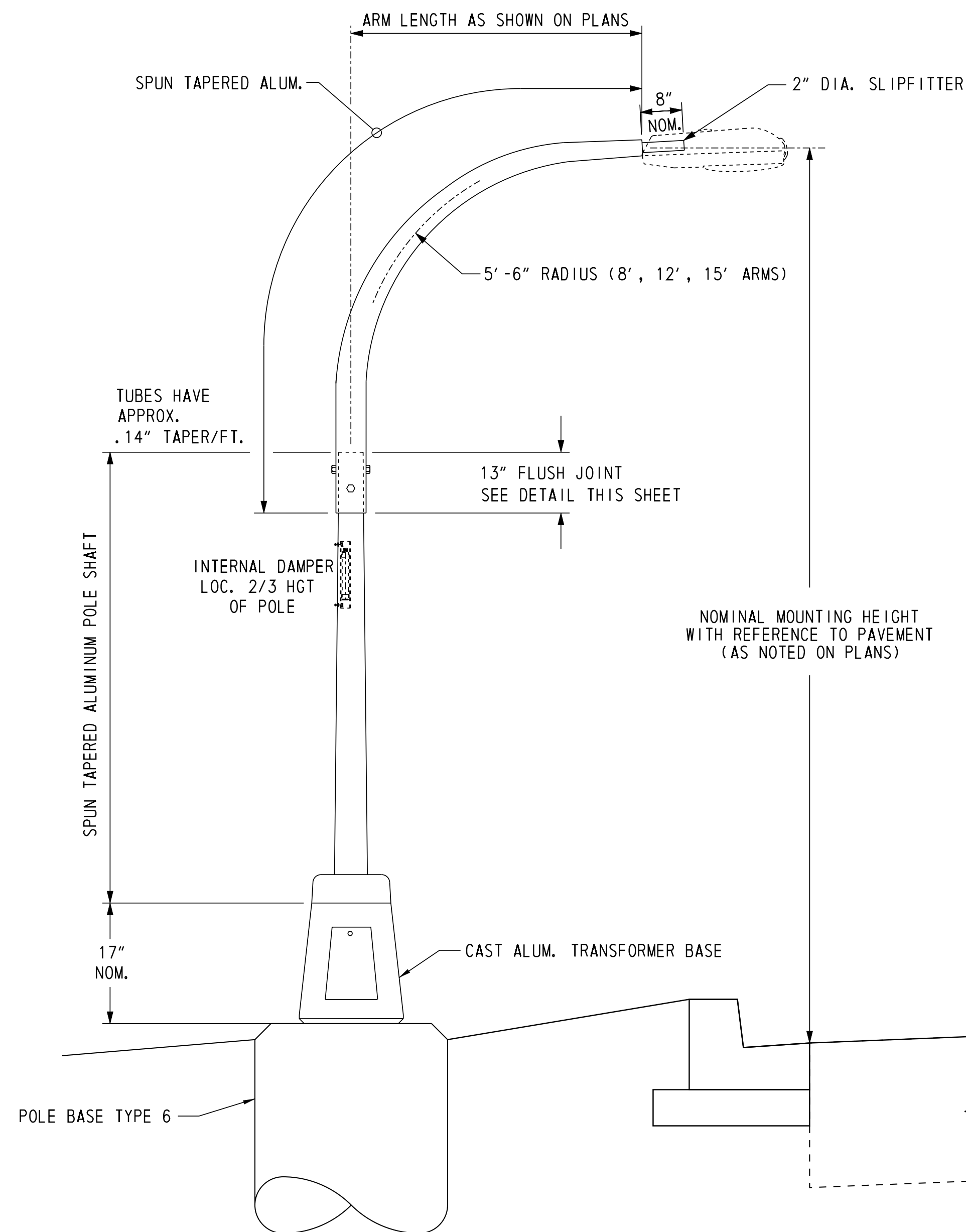
FLUSH JOINT DETAIL



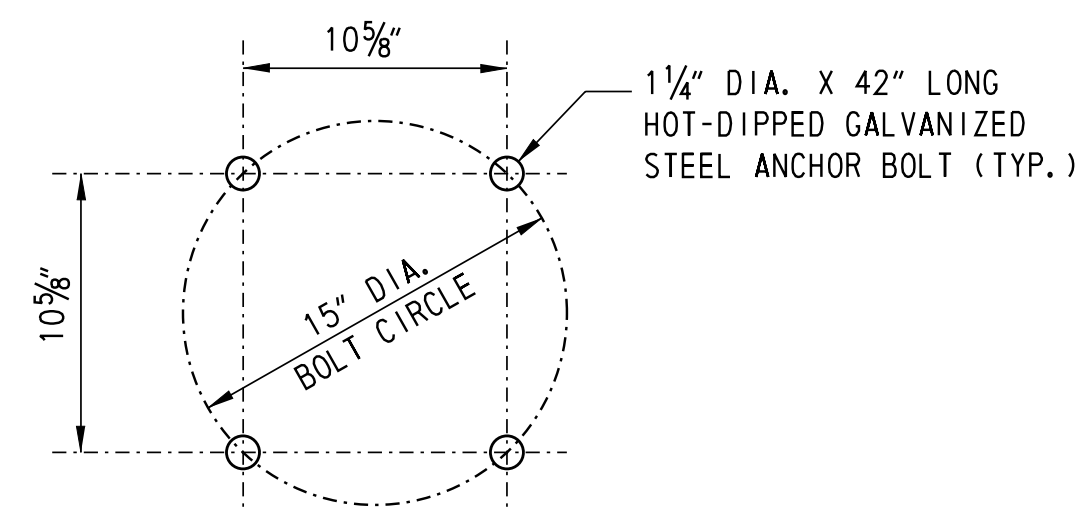
TYPICAL POLE I.D. TAG



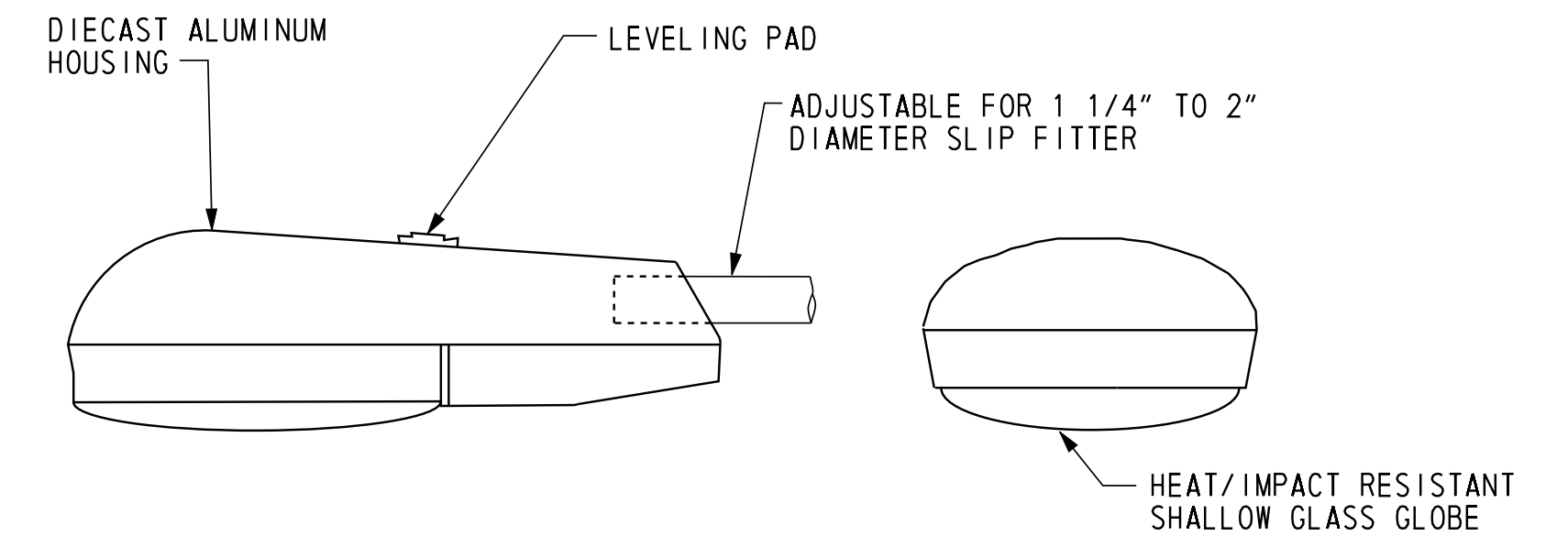
BURIED CONDUIT DETAIL



DAVIT ARM LIGHT POLE DETAIL

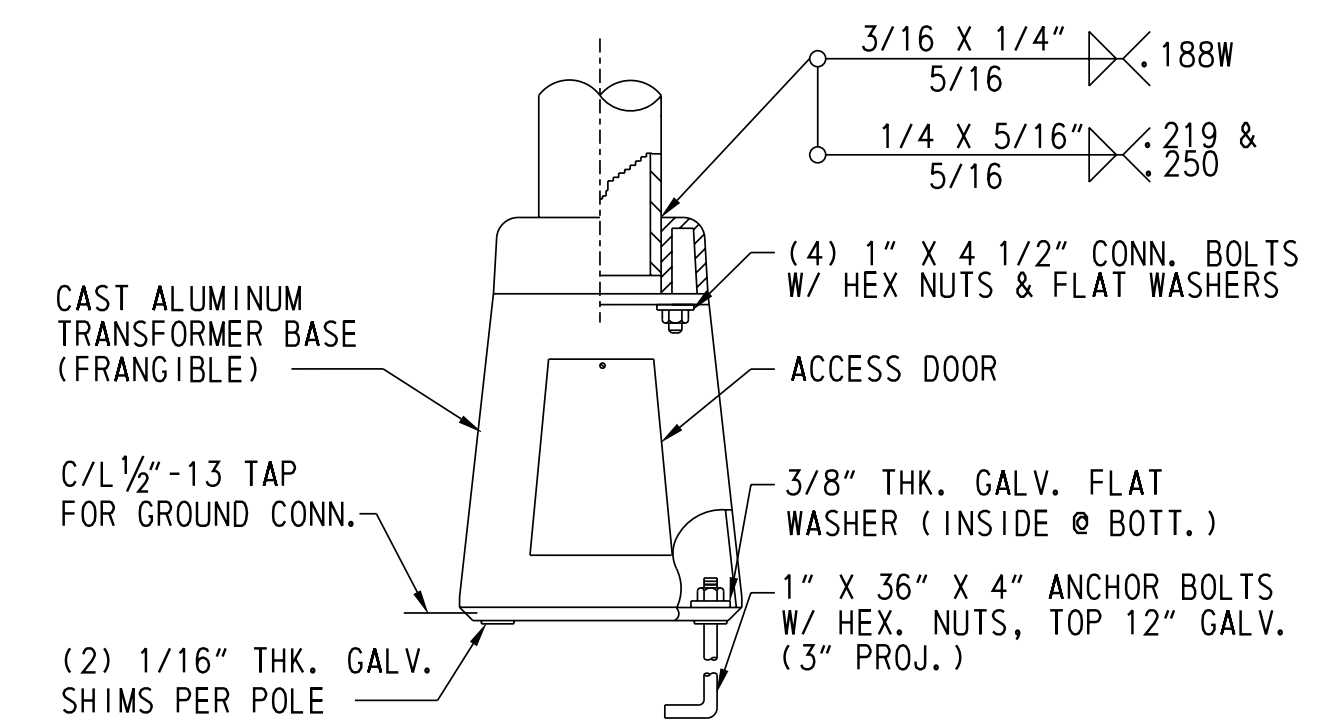


FOUNDATION ANCHOR BOLT CIRCLE DETAIL



COBRAHEAD LUMINAIRE DETAIL

NOTE: COBRAHEAD STYLE ROADWAY LUMINAIRES SHALL BE HIGH PRESSURE SODIUM WITH CUTOFF OPTICS. HORIZONTAL DISTRIBUTION TYPE AND WATTAGE SHALL BE AS SPECIFIED ON PLANS. ALL LUMINAIRES SHALL BE MOUNTED AT A ZERO DEGREE TILT ANGLE. PHOTOCONTROL SHALL BE LOCATED AT THE LIGHTING CONTROL CENTER ENCLOSURE, UNLESS OTHERWISE NOTED. LUMINAIRE SHALL BE LABELED WITH AN IDENTIFICATION STICKER IN ACCORDANCE WITH NEMA CONVENTIONS.



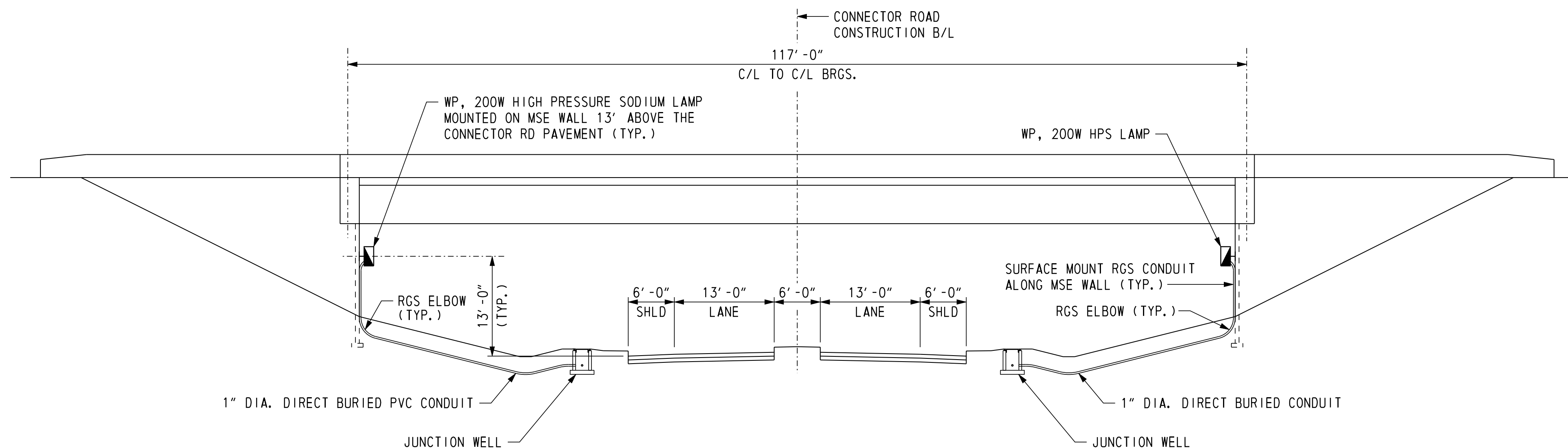
TRANSFORMER BASE DETAIL

- NOTES:**
1. TRANSFORMER BASE SHALL BE PROVIDED WITH ALL LIGHT POLES, WHETHER PROTECTED OR UNPROTECTED, UNLESS OTHERWISE NOTED.
 2. REFER TO NOTES FOR THE ANCHOR BASE DETAIL FOR CONDITIONS WHERE AN ANCHOR BASE IS REQUIRED.
 3. TRANSFORMER BASE SHALL MEET 1985 AASHTO BREAKAWAY REQUIREMENTS.
 4. ACCESS DOOR OPENING SHALL BE ON THE SIDE OF THE POLE AWAY FROM TRAFFIC.
 5. BOLT CIRCLE SHALL BE AS PER MANUFACTURERS' SPECIFICATIONS.

\$FILES

\$DATES

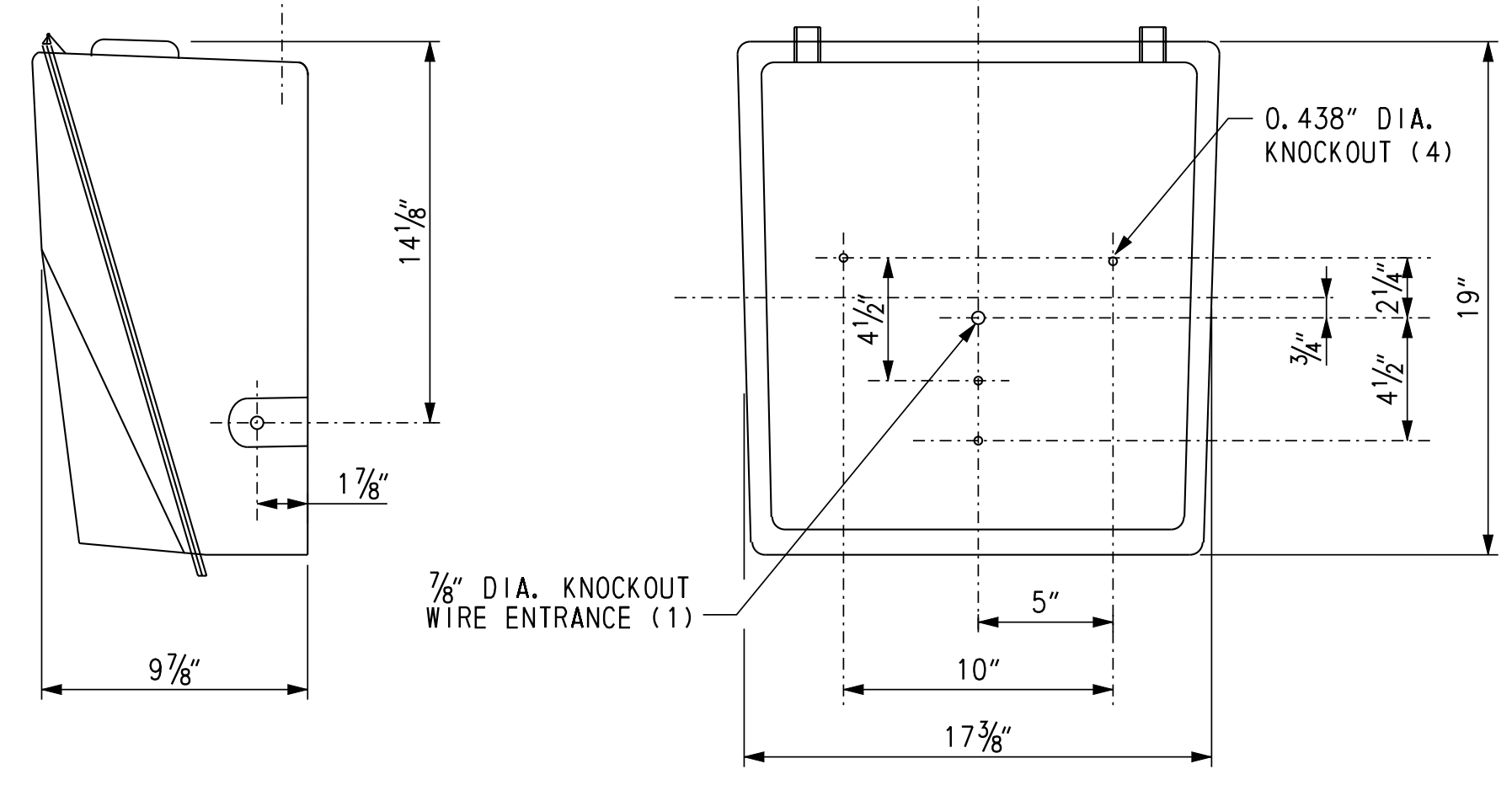
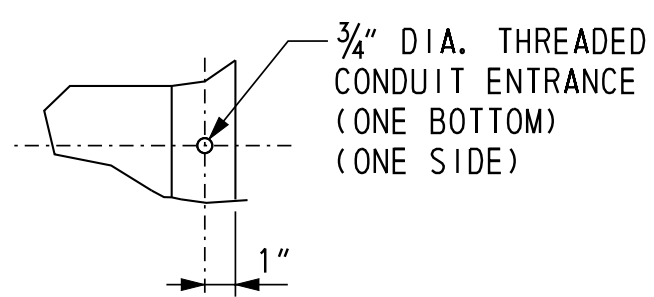
\$USERS



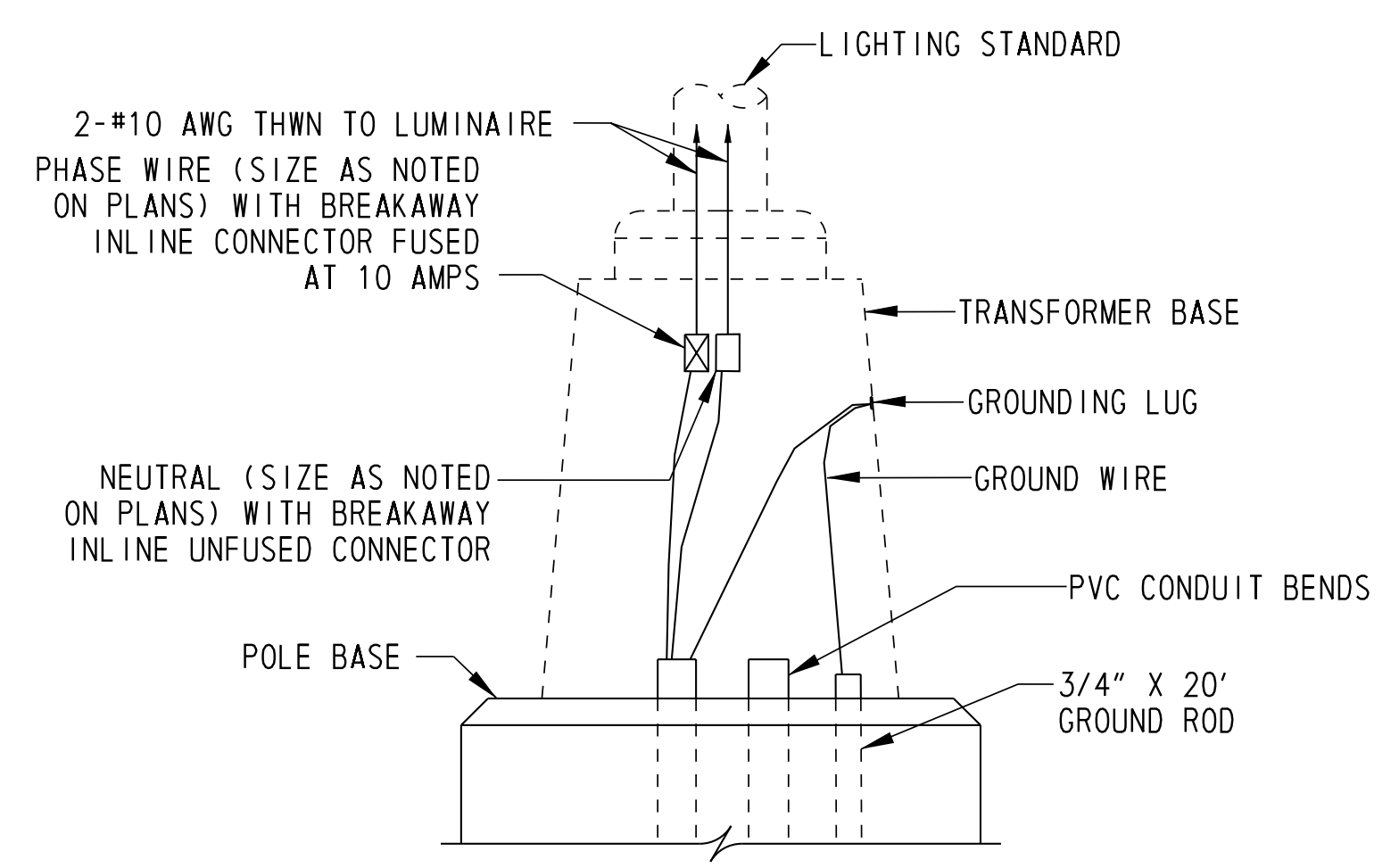
**INSTALLATION DETAIL OF TYPE 'WP' FIXTURES
ON BRIDGE 1-507N&S MSE WALLS**
(REFER TO DWG. LI-19 FOR LOCATION)

UNDER BRIDGE LIGHTING DETAIL NOTES:

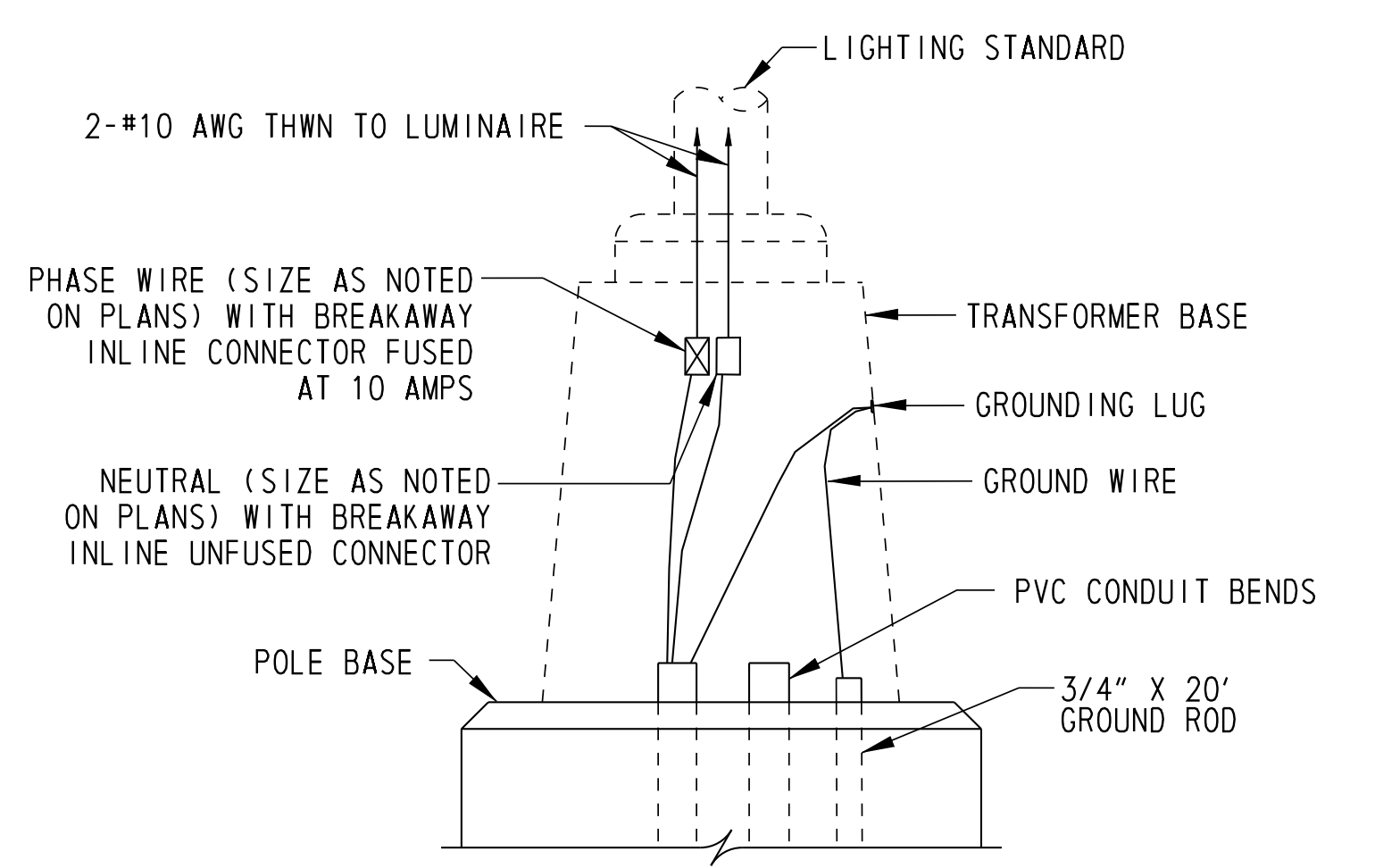
1. UNDER BRIDGE LIGHT SHALL BE EQUIPPED WITH A 200 WATT HIGH PRESSURE SODIUM LAMP.
2. ATTACH TO MSE WALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ADDITIONAL WEATHERPROOF JUNCTION BOX AS REQUIRED.
3. DIMENSION SHOWN MAY VARY DEPENDING UPON THE MANUFACTURER. FIXTURE SHALL BE EQUAL TO GE VERSAFLOOD II. OTHER MANUFACTURER - HOLOPHANE, COOPER CROUSE HINDS.
4. WALLPACK SHALL BE LABELED IN ACCORDANCE WITH NEMA CONVENTIONS.



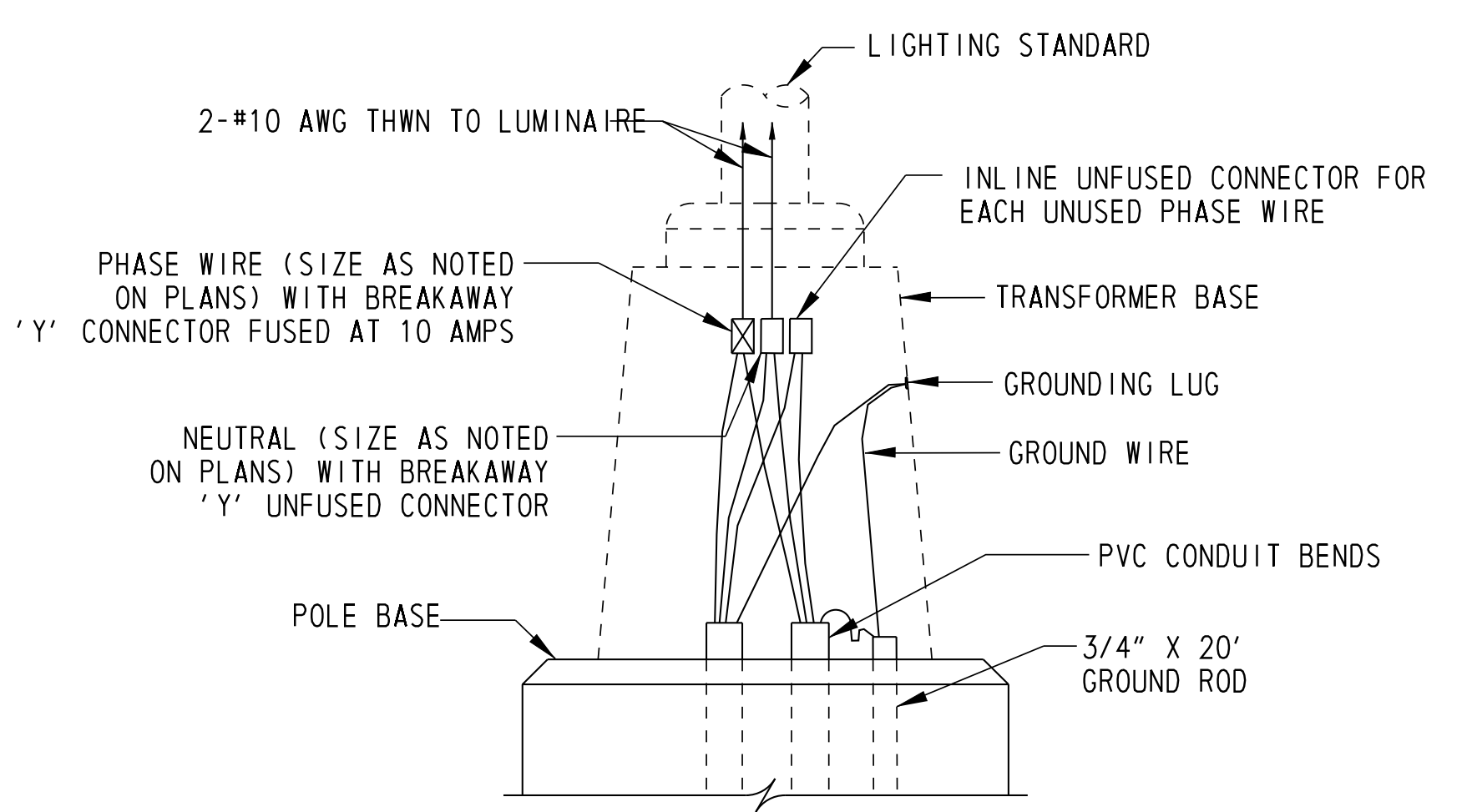
WALLPACK LIGHTER - TYPE 'WP' FIXTURES
NOT TO SCALE



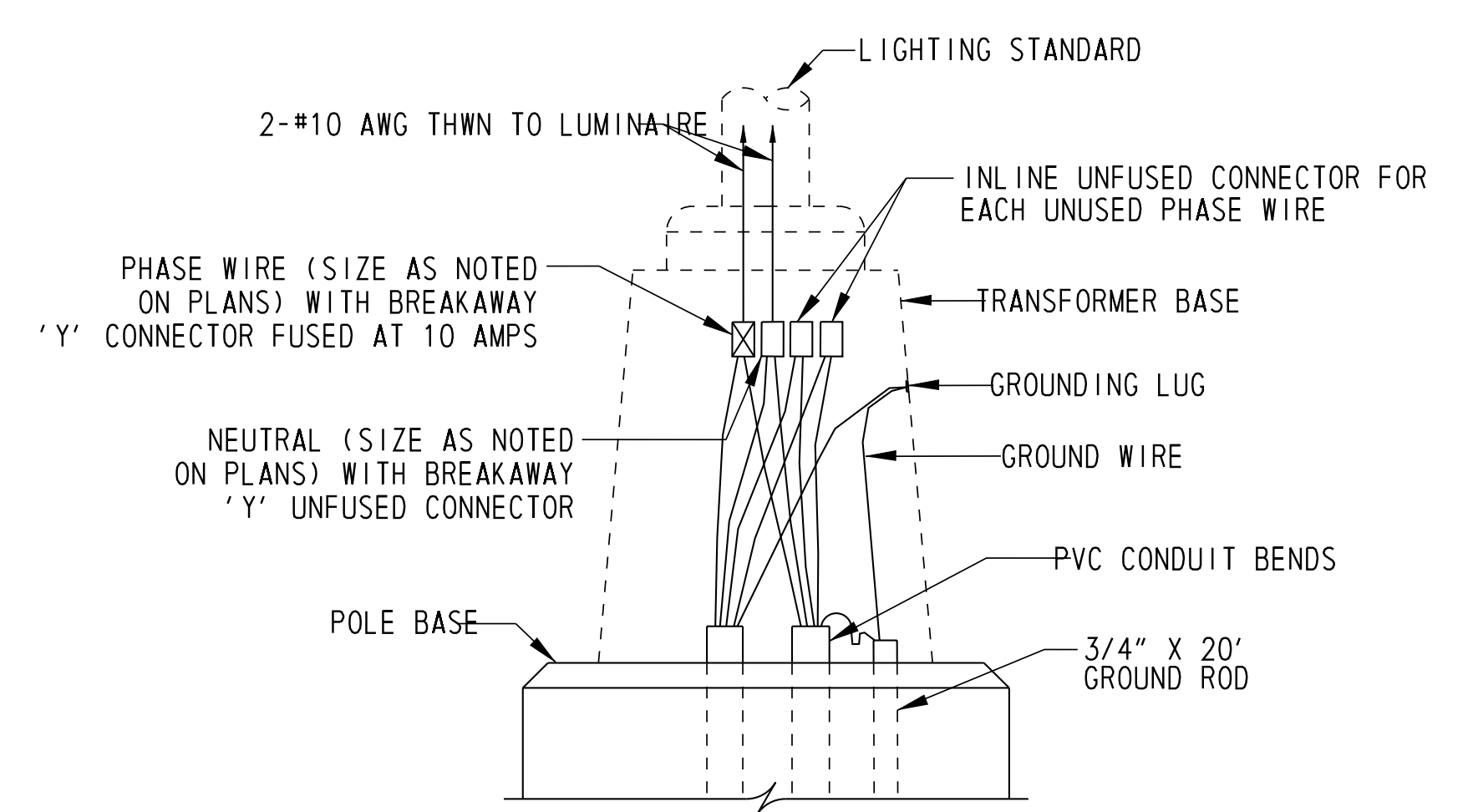
**TYPICAL LUMINAIRE CONNECTION
END OF CABLE RUN - 120/240 VOLT**



**TYPICAL LUMINAIRE CONNECTION
END OF CABLE RUN - 277/480 VOLT**



**LUMINAIRE CONNECTION
CONTINUOUS CABLE RUN - 120/240 VOLT**



**LUMINAIRE CONNECTION
CONTINUOUS CABLE RUN - 277/480 VOLT**

FILES
DATES
USERS



ADDENDUMS / REVISIONS	

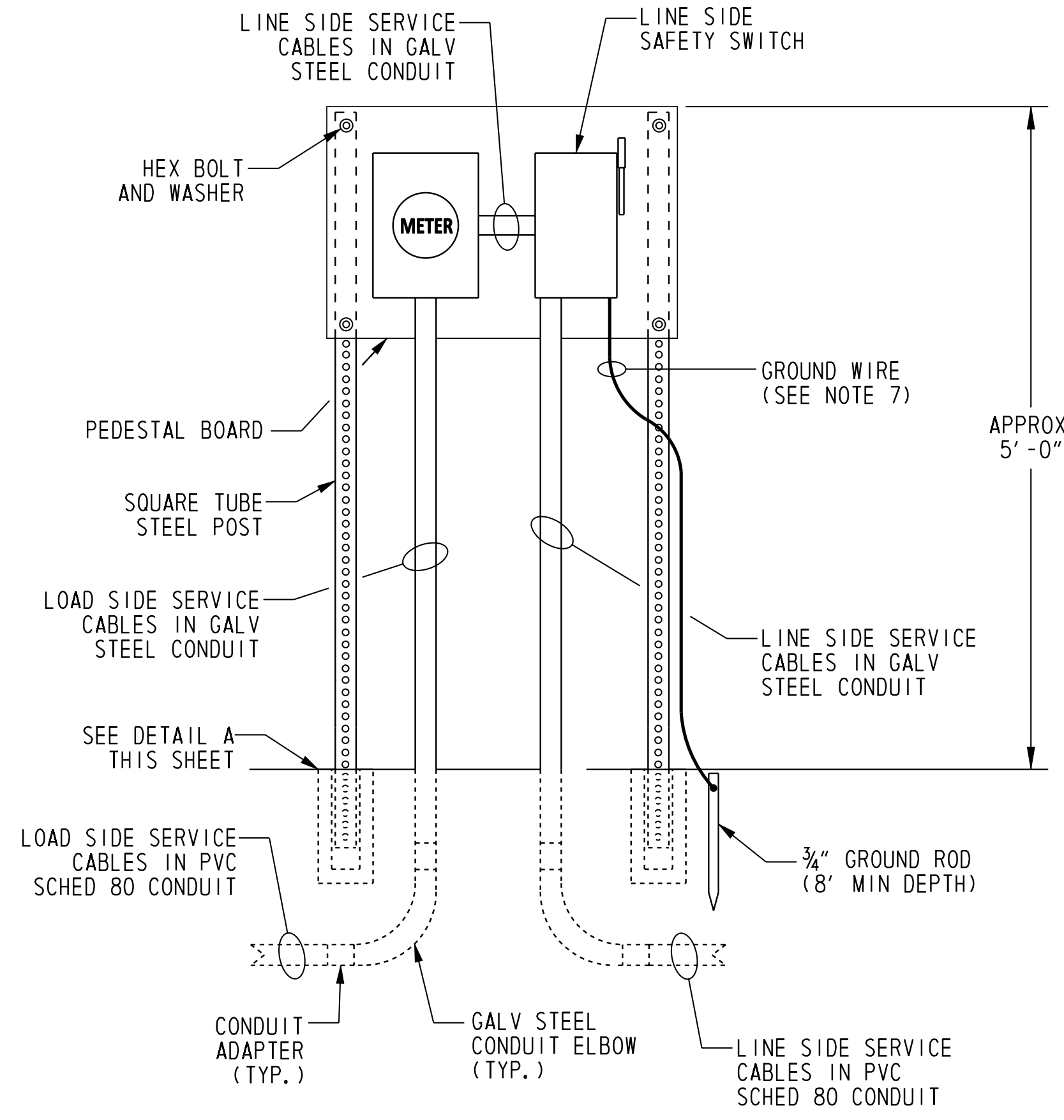
NOT TO SCALE

**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

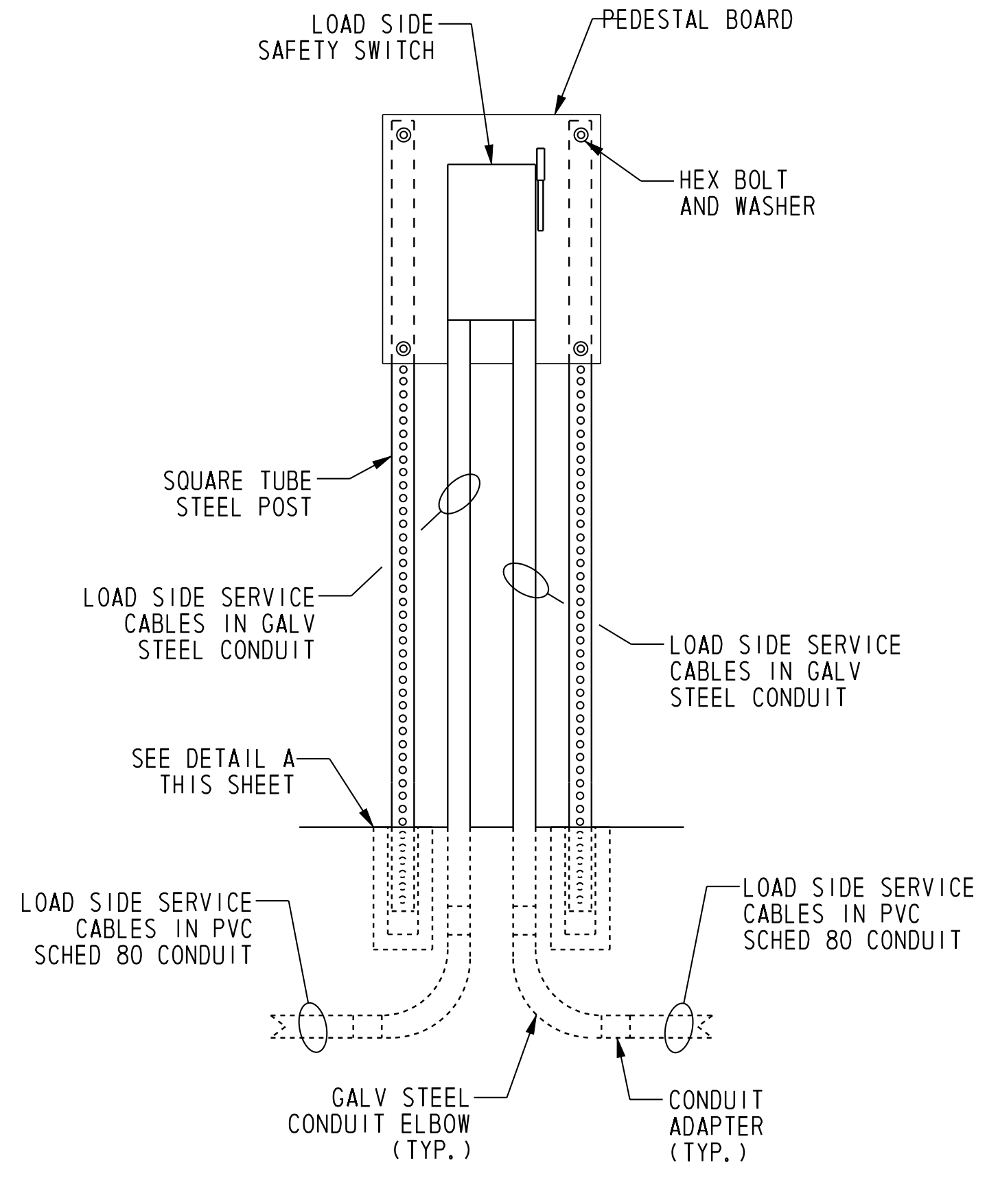
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

**LIGHTING PLAN
LIGHTING DETAILS 2**

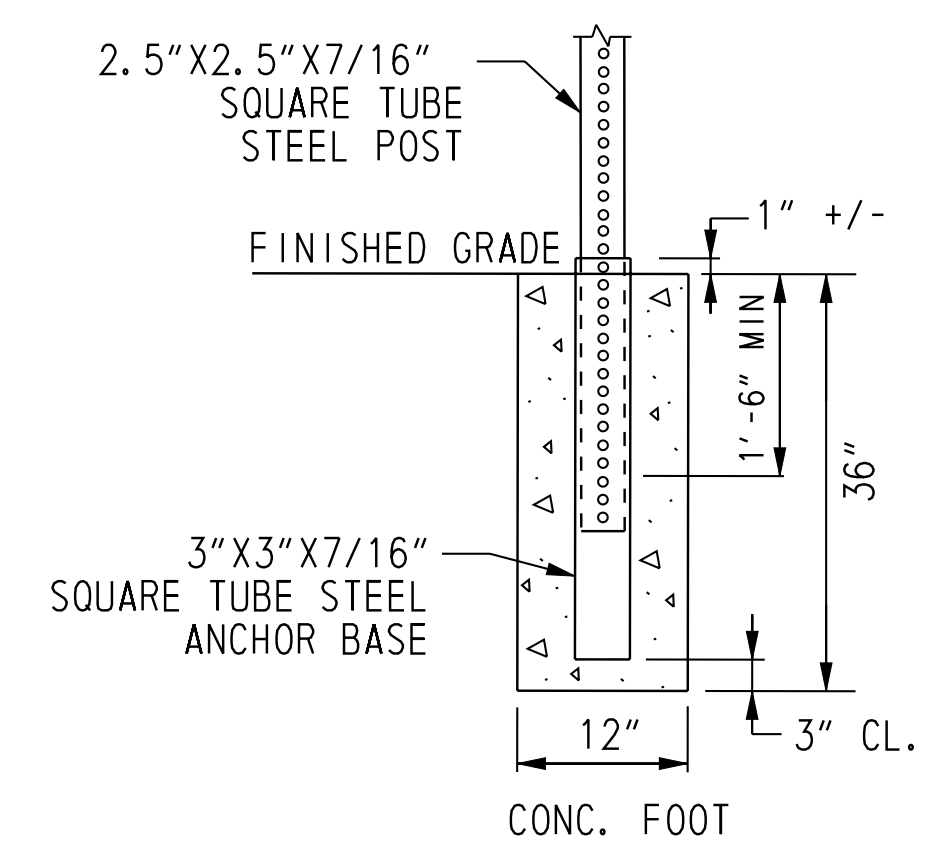
LI-27
SHEET NO.
1026
TOTAL SHTS.
1256



SERVICE PEDESTAL



LOAD SIDE SAFETY SWITCH
METERED SERVICE PEDESTAL
NOT TO SCALE



DETAIL A

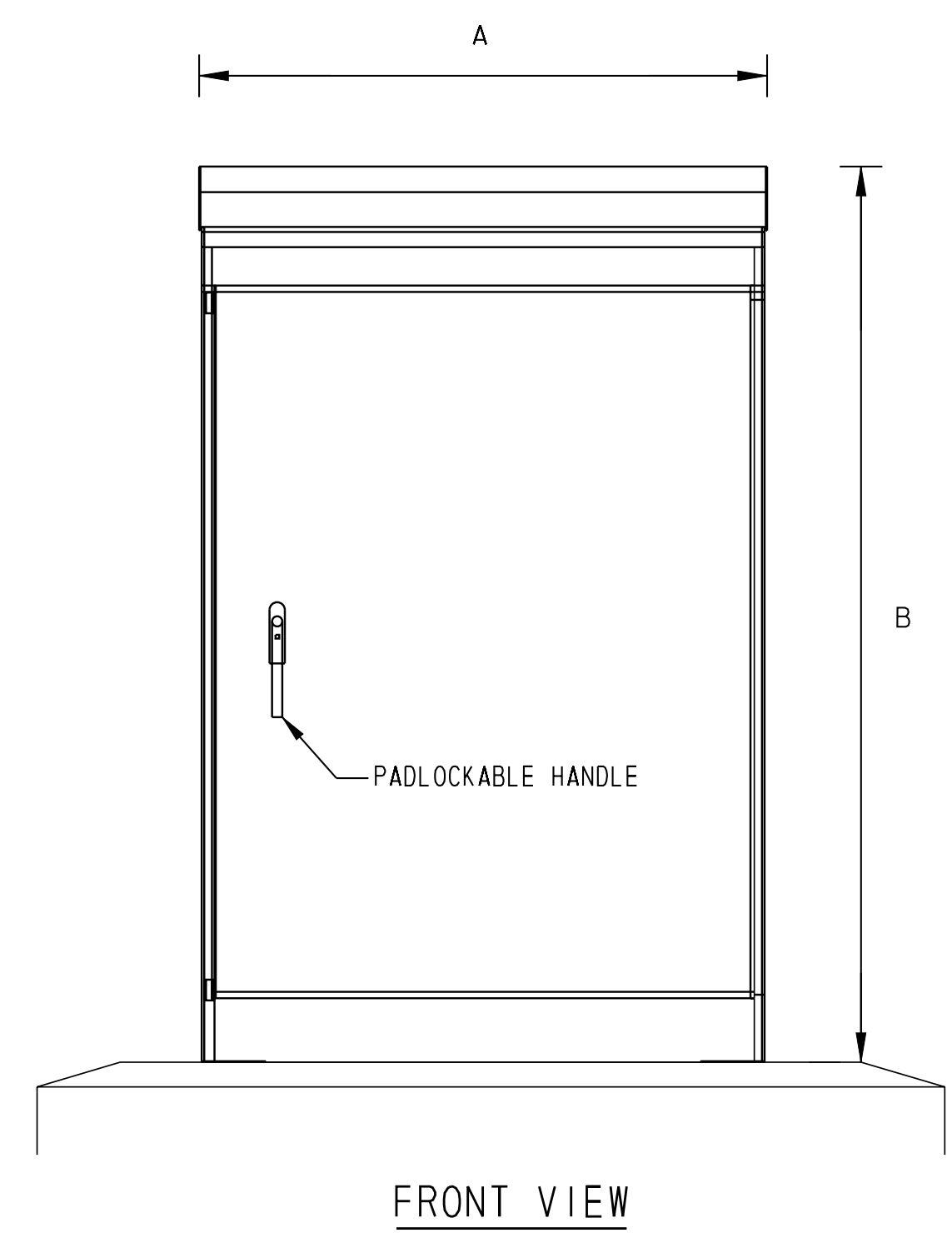
METERED SERVICE PEDESTAL CONSTRUCTION NOTES

1. LINE SIDE SAFETY SWITCH AND METER SHALL BE LOCATED ADJACENT TO SERVICE DROP LOCATION. LINE SIDE SAFETY SWITCH SHALL BE FUSED AND SIZED TO SERVICE.
2. LOAD SIDE SAFETY SWITCH SHALL NOT BE FUSED.
3. ALL CONDUITS SHALL BE 2" DIAMETER.
4. HEX BOLTS AND WASHERS SHALL BE STAINLESS STEEL.
5. PEDESTAL BOARD SHALL BE ALUMINUM WITH 1/4" MIN THICKNESS.
6. SQUARE TUBE STEEL POST AND ANCHOR BASE SHALL BE MINIMUM 12 GAUGE.
7. GROUND WIRE SHALL BE #6 BARE COPPER SOLID. WIRE SHALL BE FASTENED TO SERVICE PEDESTAL SUPPORTS USING APPROVED METHODS. WIRE SHALL BE CONNECTED TO GROUND ROD BY EXOTHERMIC WELD. SEE SPECIFICATIONS FOR DETAILS.
8. SAFETY SWITCH SHALL BE CLEARLY MARKED WITH WEATHERPROOF STAMP. SWITCH SHALL BE LABELLED "LIGHTING", "SIGNAL", "CAMERA", "REPEATER" OR "RWIS" DENOTING THE DEVICE IT SERVES.

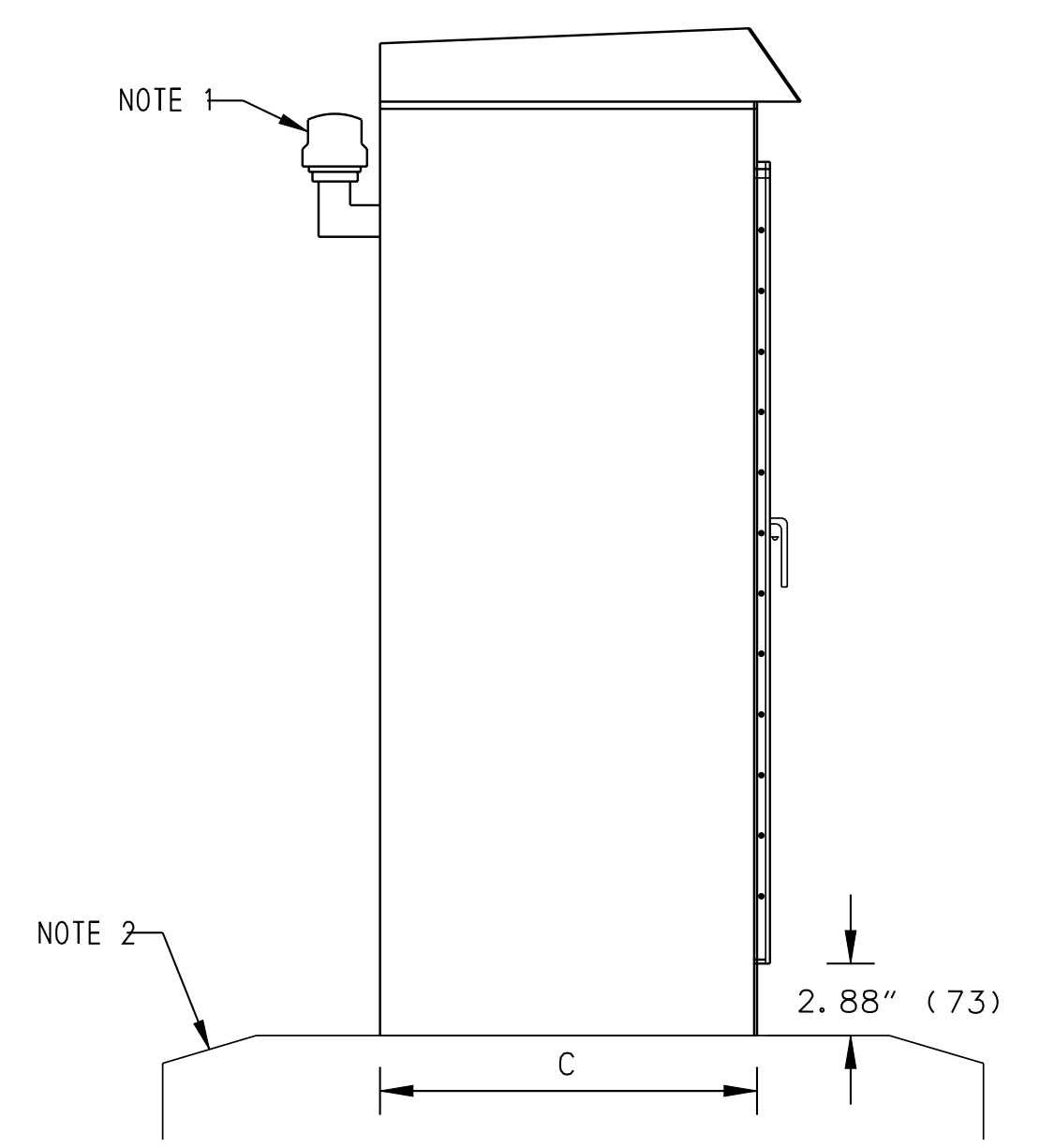
LIGHTING CONTROL CABINET CONSTRUCTION NOTES:

1. PHOTOCELL SHALL BE MOUNTED ON BACK OR SIDE OF CABINET ON 90 DEGREE CONDUIT FITTING TO AVOID VEHICLE HEADLIGHT GLARE.
2. REFER TO STANDARD DETAILS T-4-1 (2011) AND T-4-2 (2011) FOR CABINET BASE DETAILS.
3. CABINET SHALL BE NEMA 4X AND SHALL BE FABRICATED FROM 0.125 5052-H32 ALUMINUM.
4. METER AND LOAD-SIDE DISCONNECT SWITCH TO BE MOUNTED SEPARATELY FROM CABINET. REFER TO STANDARD DETAIL T-* METERED SERVICE PEDESTAL.

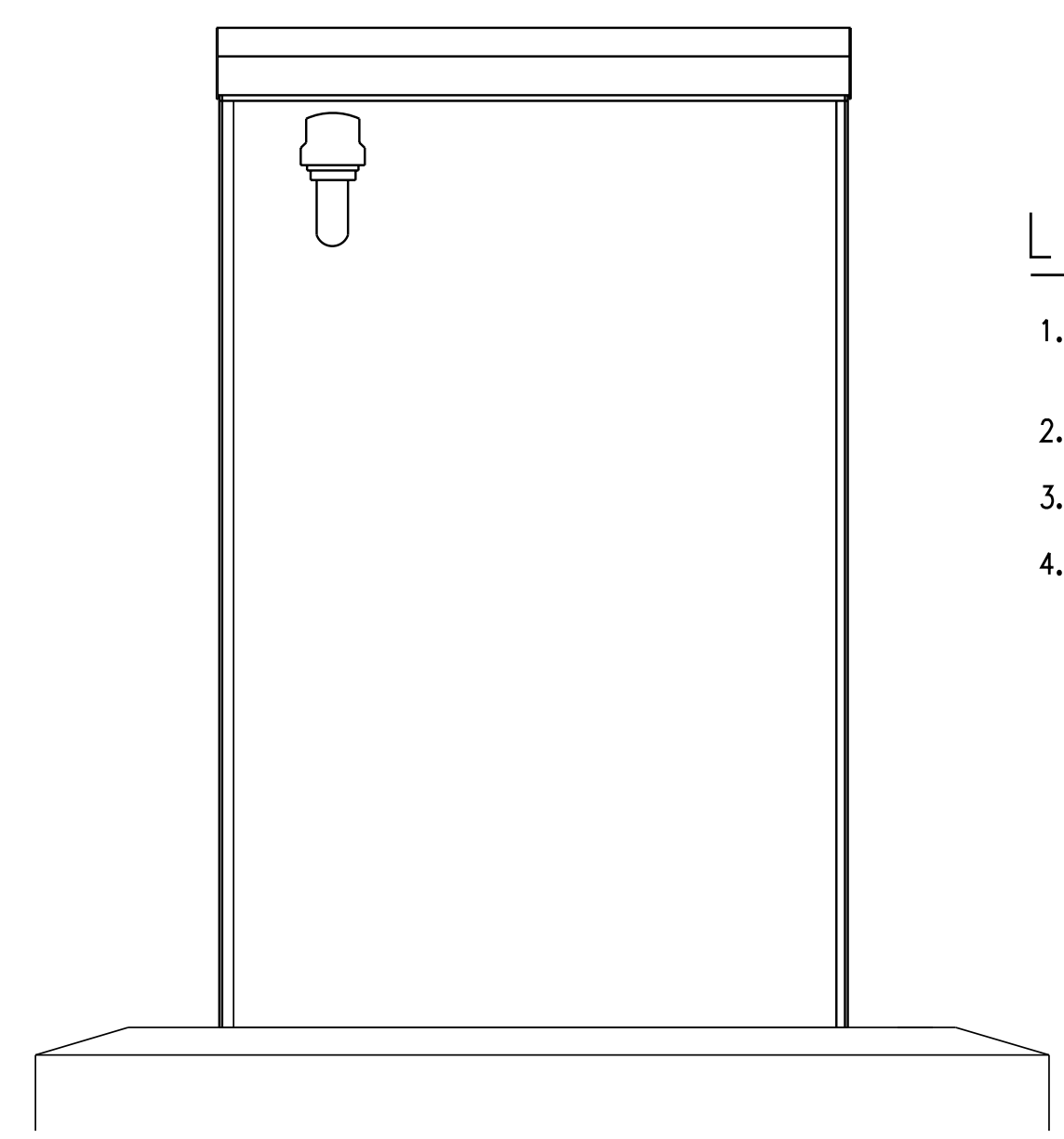
DIM.	CABINET TYPE	
	TYPE R	TYPE M
A	44" (1118)	30" (762)
B	77" (1956)	51" (1295)
C	25.5" (648)	16.88" (429)



FRONT VIEW



SIDE VIEW



BACK VIEW

LIGHTING CONTROL CABINET DETAIL
NOT TO SCALE

ADDENDUMS / REVISIONS

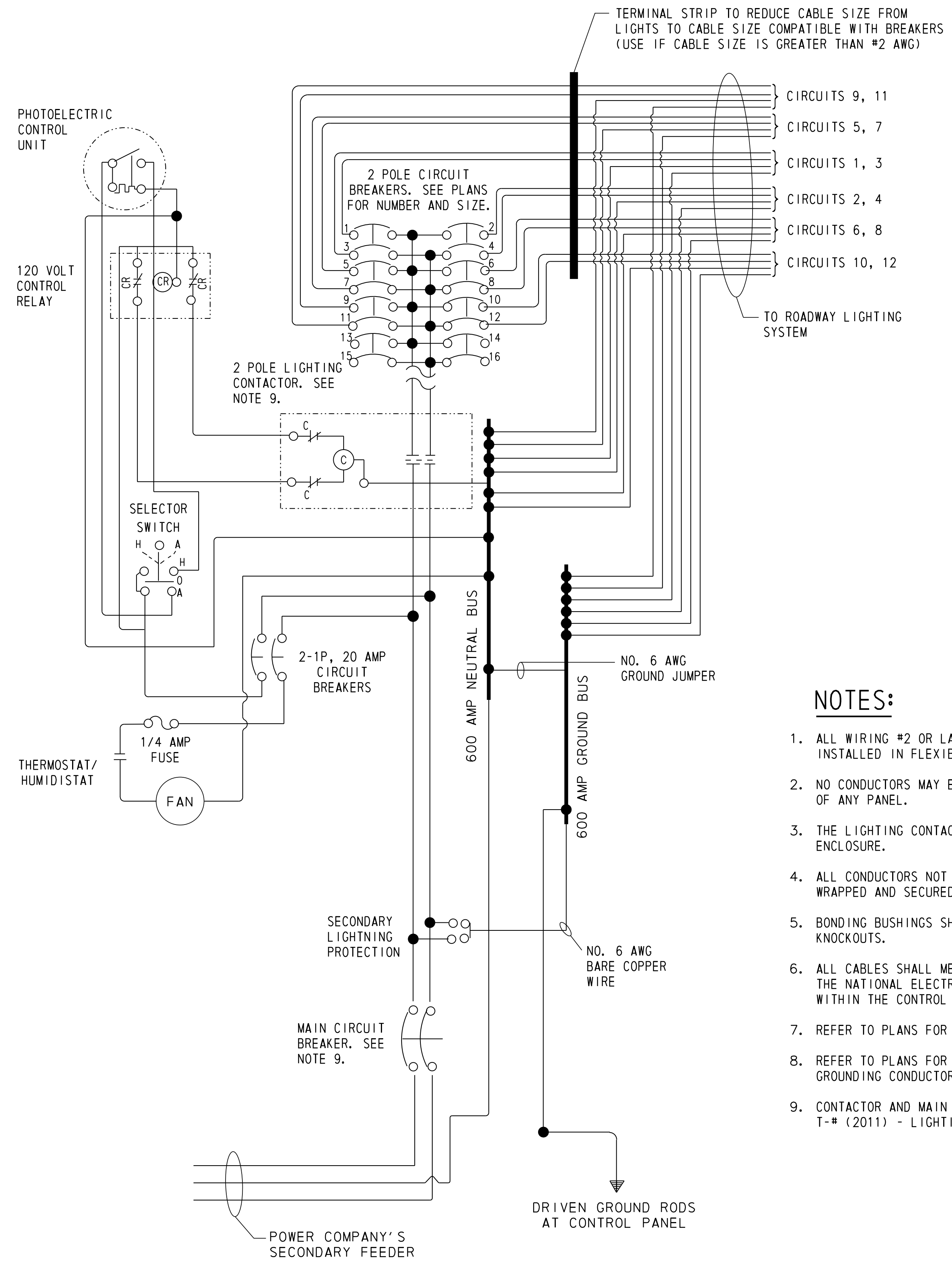
NOT TO SCALE

US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T20091303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

LIGHTING PLAN
LIGHTING DETAILS 3

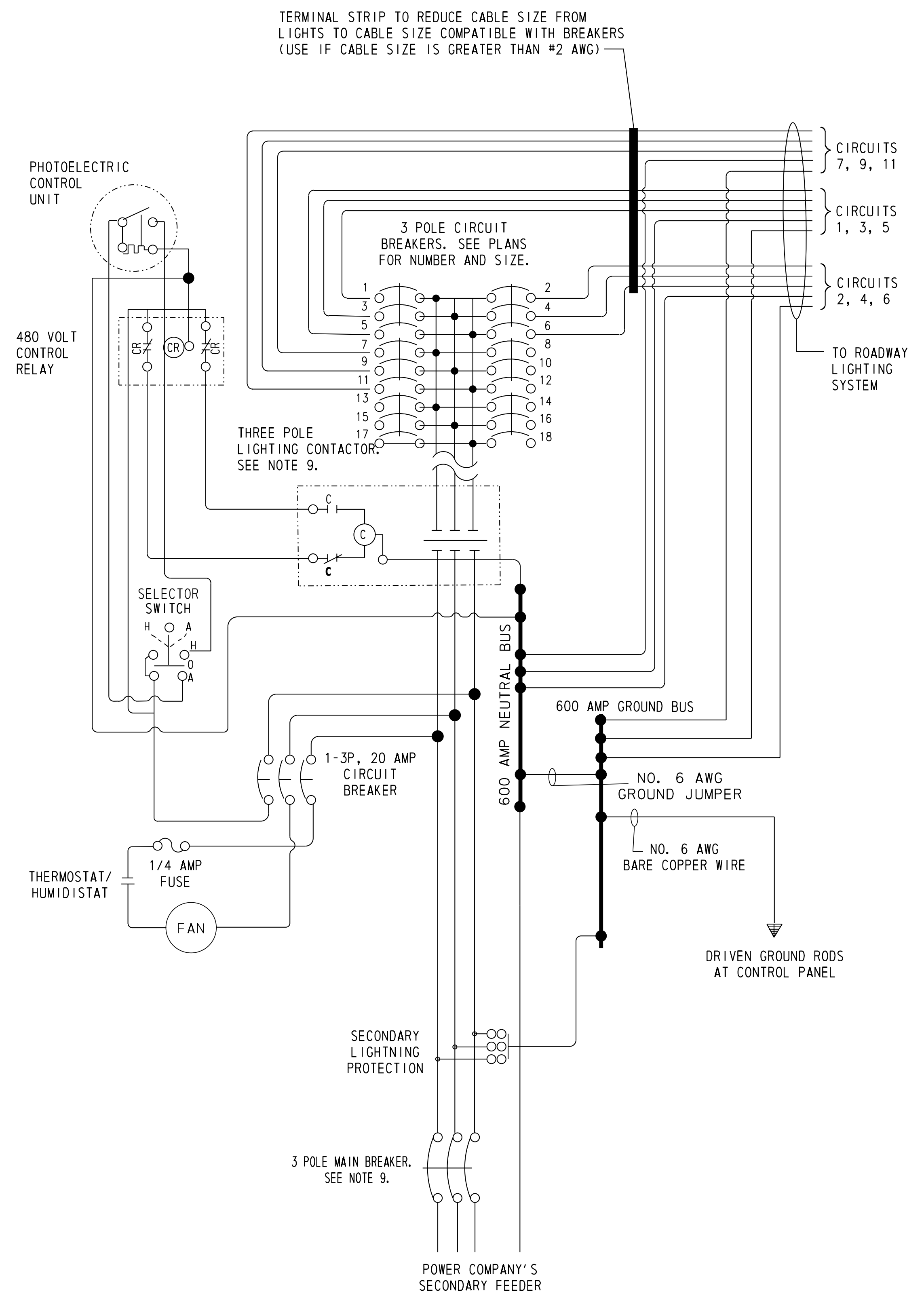
LI-28
SHEET NO.
1027
TOTAL SHTS.
1256



**120/240 VOLT
LIGHTING CONTROL CENTER WIRING DIAGRAM
(FOR ROUNDABOUT / INTERSECTIONS)**

NOTES:

1. ALL WIRING #2 OR LARGER AS INDICATED ON PLANS SHALL BE INSTALLED IN FLEXIBLE CONDUIT FOR SERVICE FEEDS.
2. NO CONDUCTORS MAY ENTER OR EXIT THROUGH THE REAR OF ANY PANEL.
3. THE LIGHTING CONTACTOR SHALL BE IN A PROPERLY SIZED ENCLOSURE.
4. ALL CONDUCTORS NOT IN CONDUIT SHALL BE BUNDLED OR WRAPPED AND SECURED IN CABINET AWAY FROM SHARP EDGES.
5. BONDING BUSHINGS SHALL BE USED FOR ALL CONCENTRIC KNOCKOUTS.
6. ALL CABLES SHALL MEET AMPACITY REQUIREMENTS OF THE NATIONAL ELECTRIC CODE. THE MINIMUM CABLE SIZE WITHIN THE CONTROL CENTER SHALL BE NO. 12 AWG.
7. REFER TO PLANS FOR NUMBER AND SIZE OF CIRCUIT BREAKERS.
8. REFER TO PLANS FOR NUMBER AND SIZE OF ELECTRODE GROUNDING CONDUCTOR WIRES REQUIRED.
9. CONTACTOR AND MAIN BREAKER TO BE SIZED PER STD T-# (2011) - LIGHTING CABINET LAYOUT.



**277/480 VOLT
LIGHTING CONTROL CENTER WIRING DIAGRAM
(FOR ROADWAY LIGHTING)**

\$FILES
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\$USERS

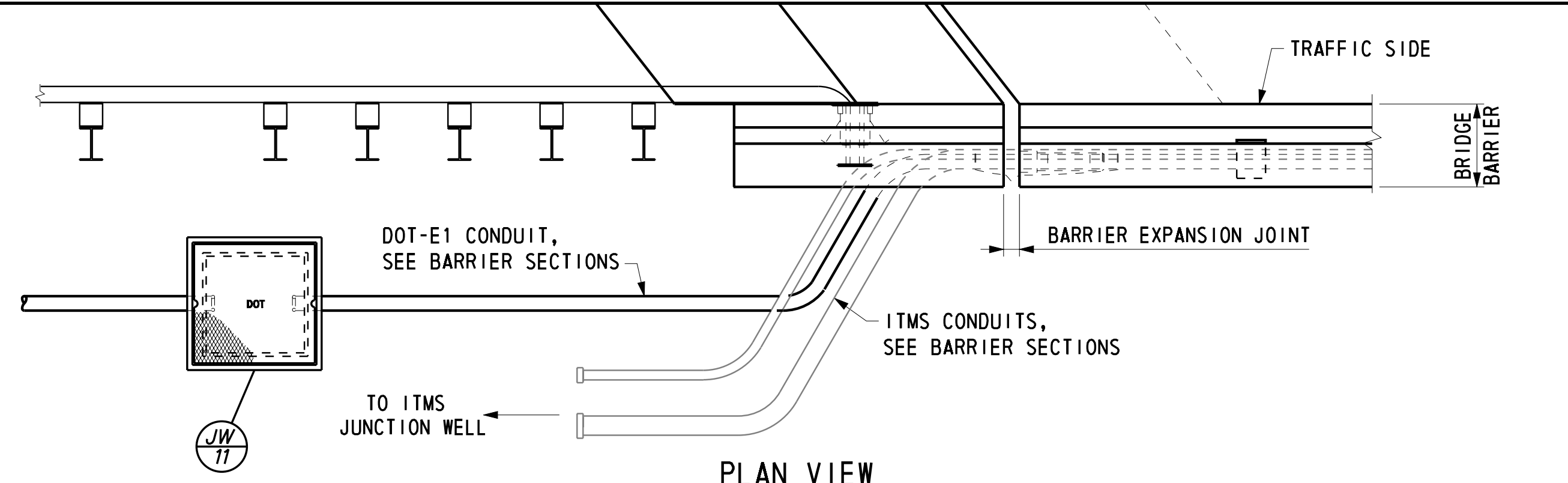
ADDENDUMS / REVISIONS	

NOT TO SCALE

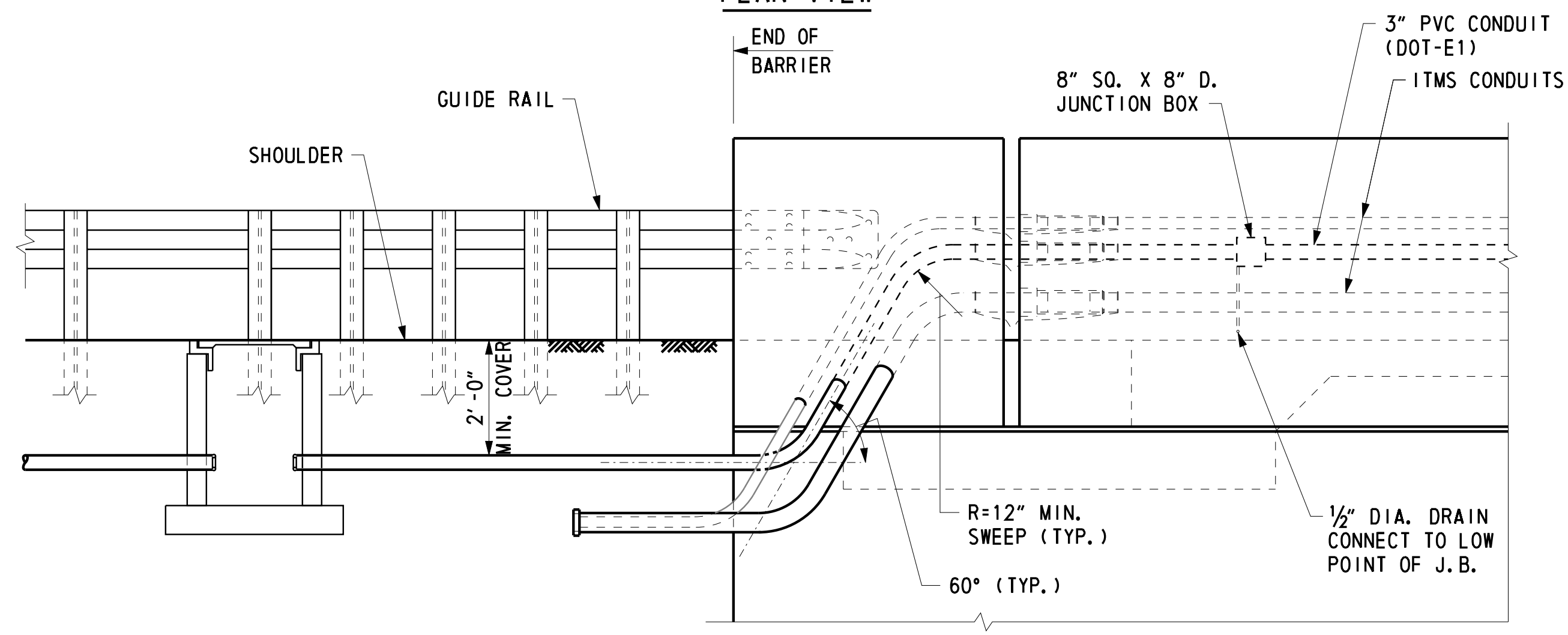
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T20091303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: A. AGGARWAL
	CHECKED BY: D. L. BAKER

LIGHTING PLAN LIGHTING DETAILS 4
LI-29
SHEET NO. 1028
TOTAL SHTS. 1256



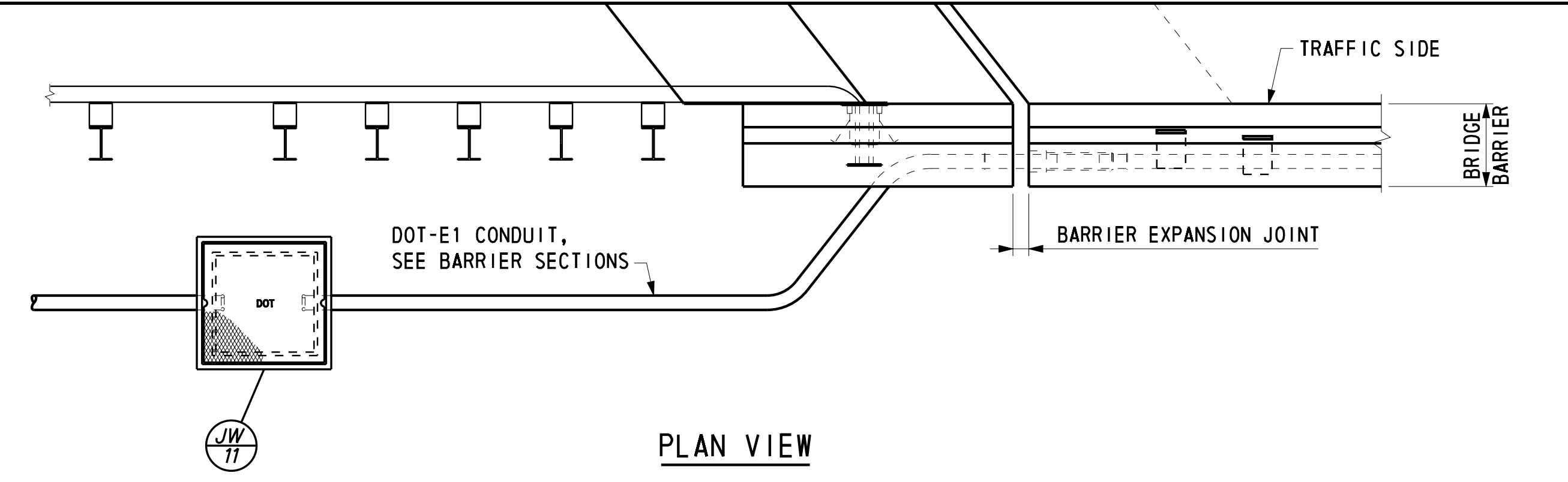
PLAN VIEW



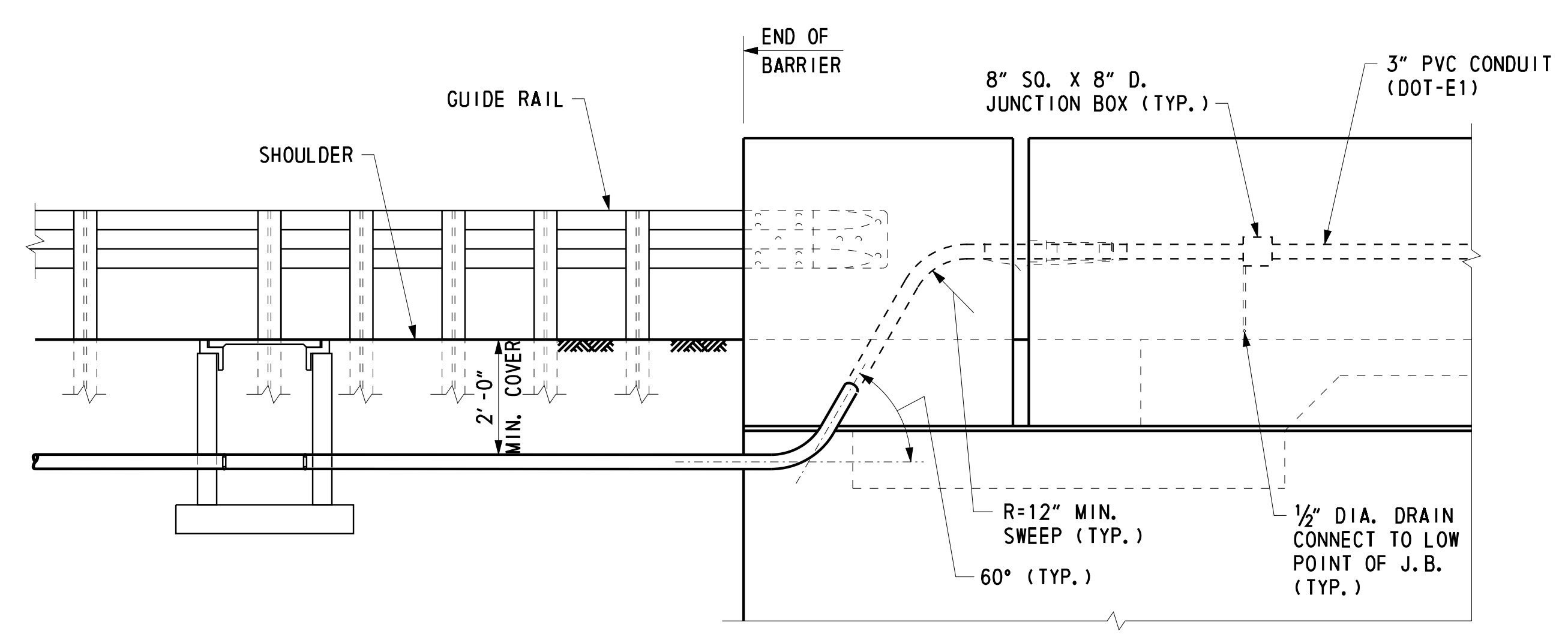
ELEVATION

CONDUIT DETAILS AT ENDS OF BRIDGE 1-470N AND 1-477S&N

(REFER TO DWGS. LI-03, LI-08 AND LI-24)
NOT TO SCALE



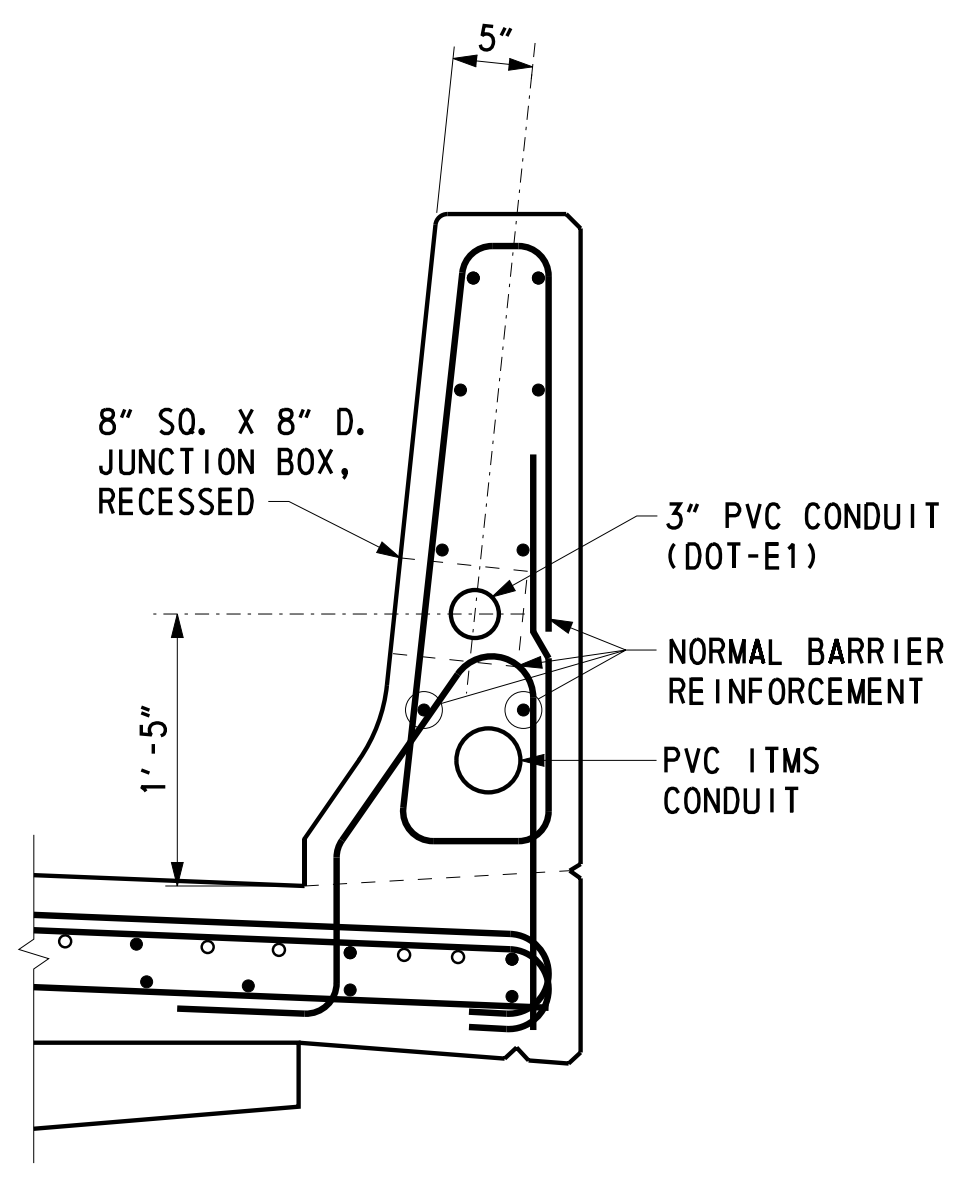
PLAN VIEW



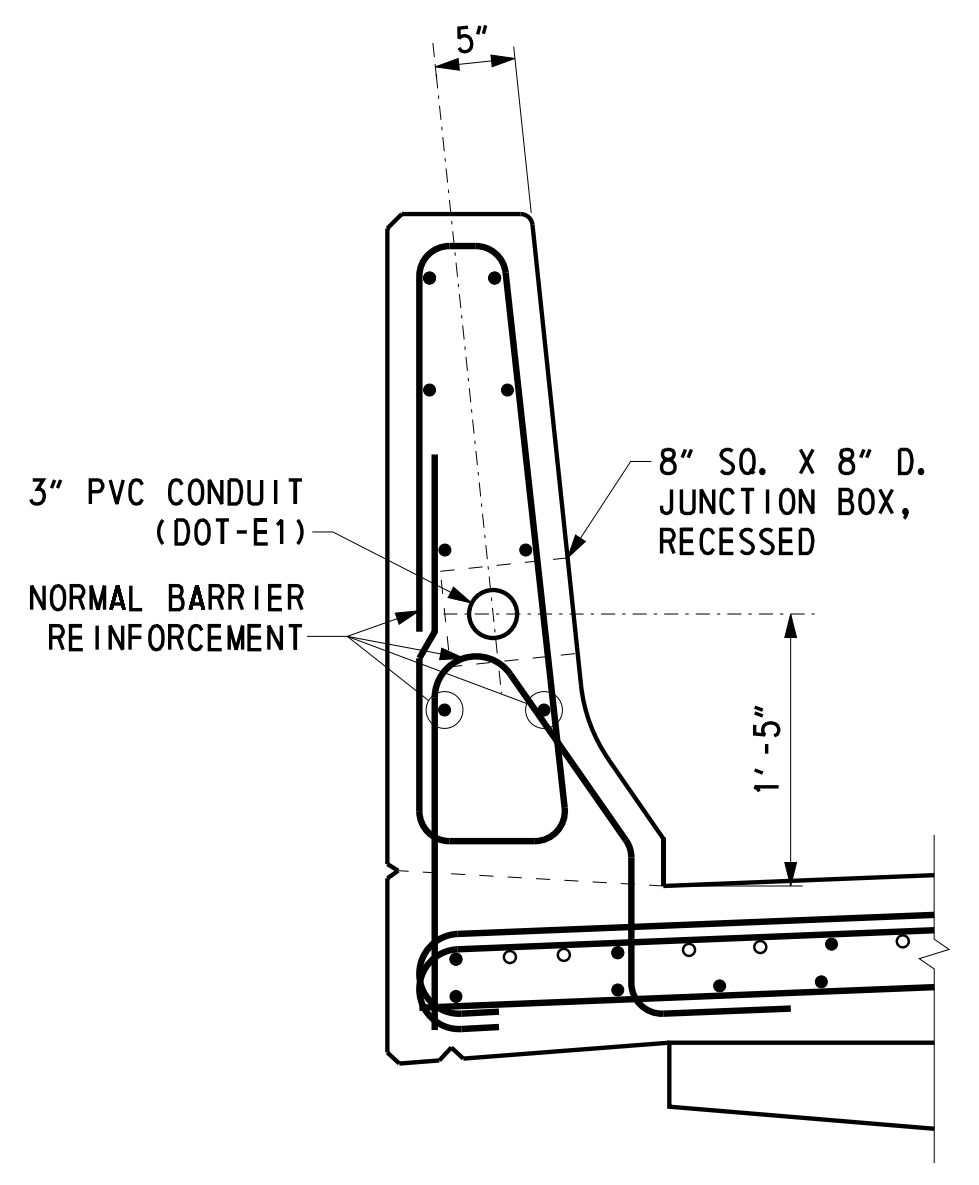
ELEVATION

CONDUIT DETAILS AT ENDS OF BRIDGE 1-479

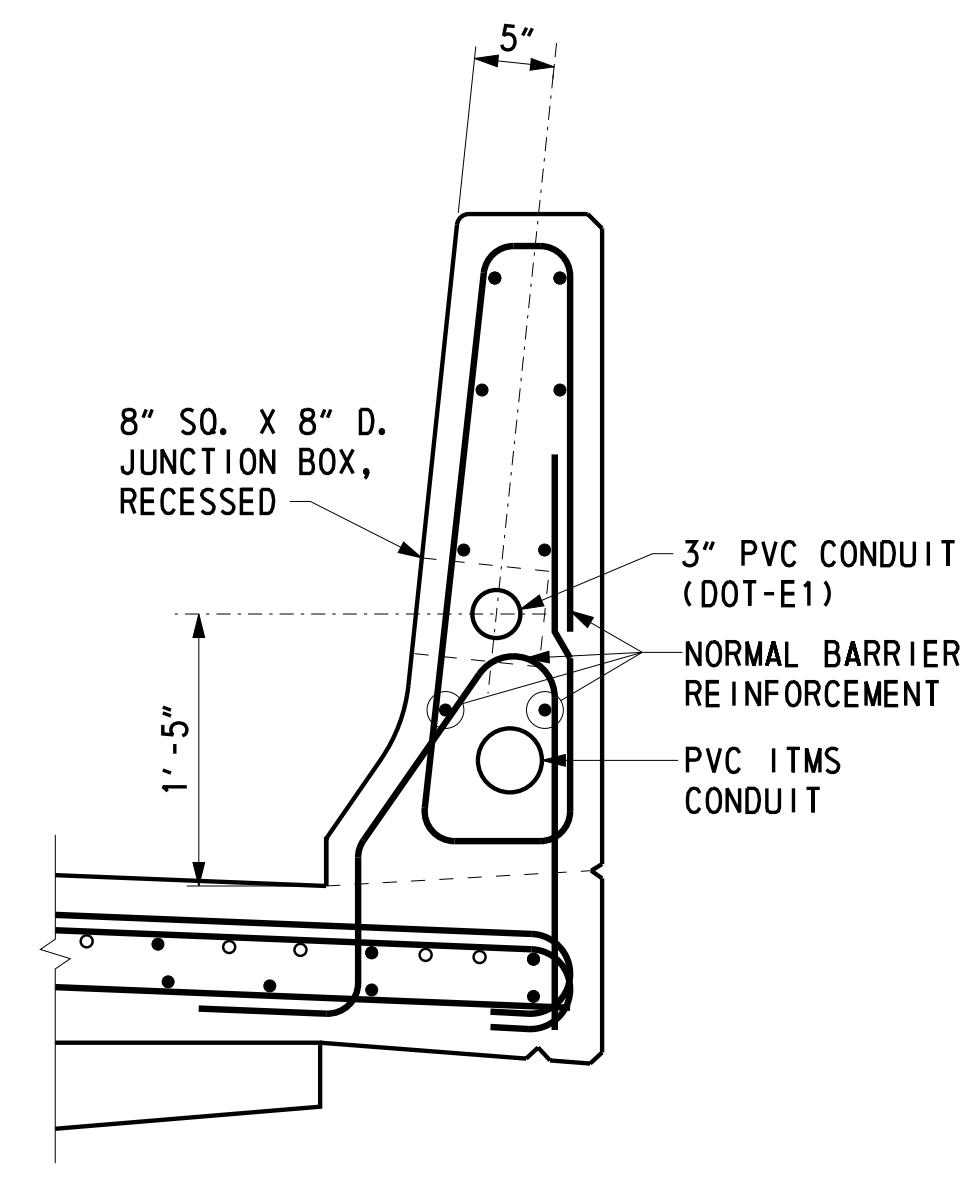
NOT TO SCALE



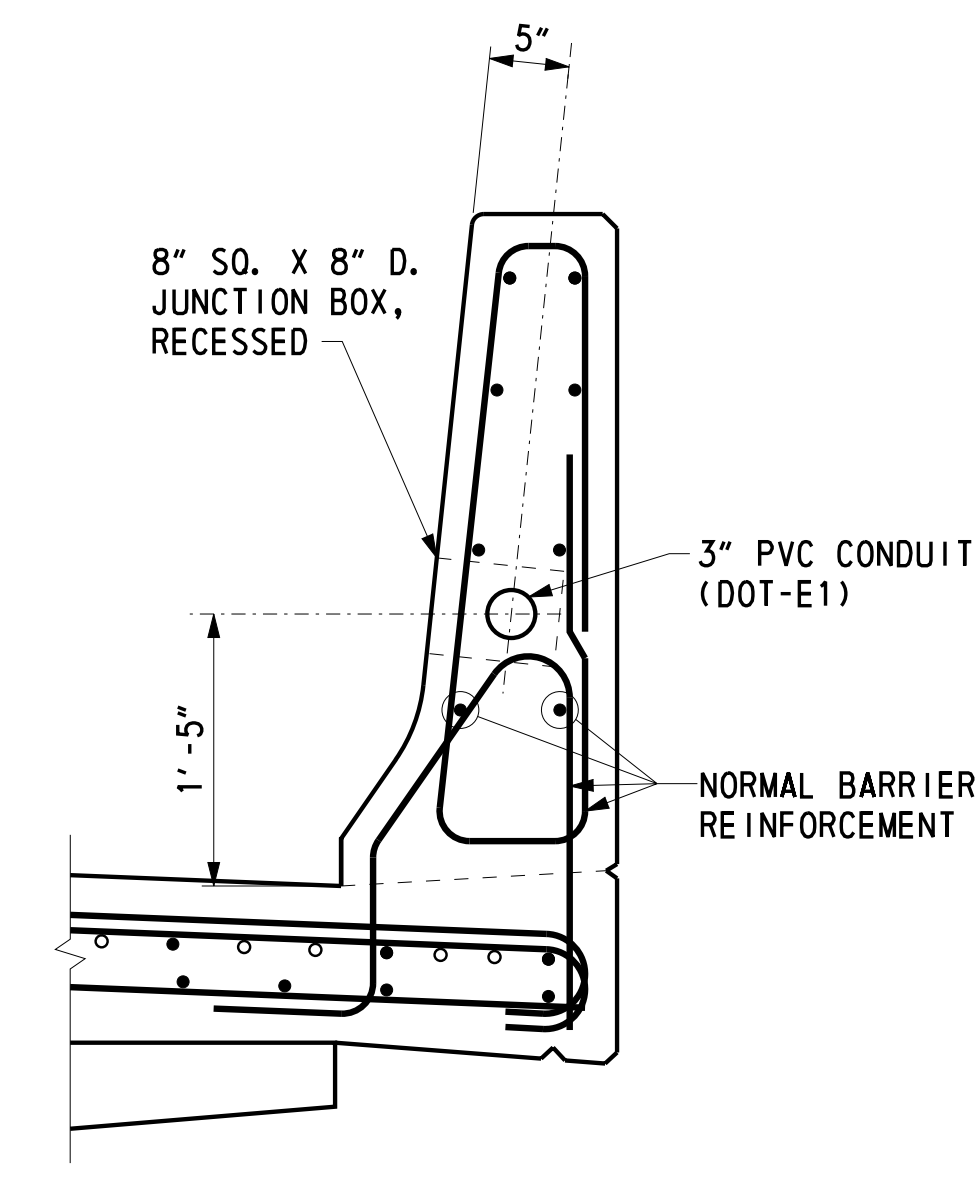
3" DOT-E AND ITMS CONDUITS
IN BRIDGE 1-470N BARRIER TYPICAL



3" DOT-E AND ITMS CONDUITS
IN BRIDGE 1-477S BARRIER TYPICAL



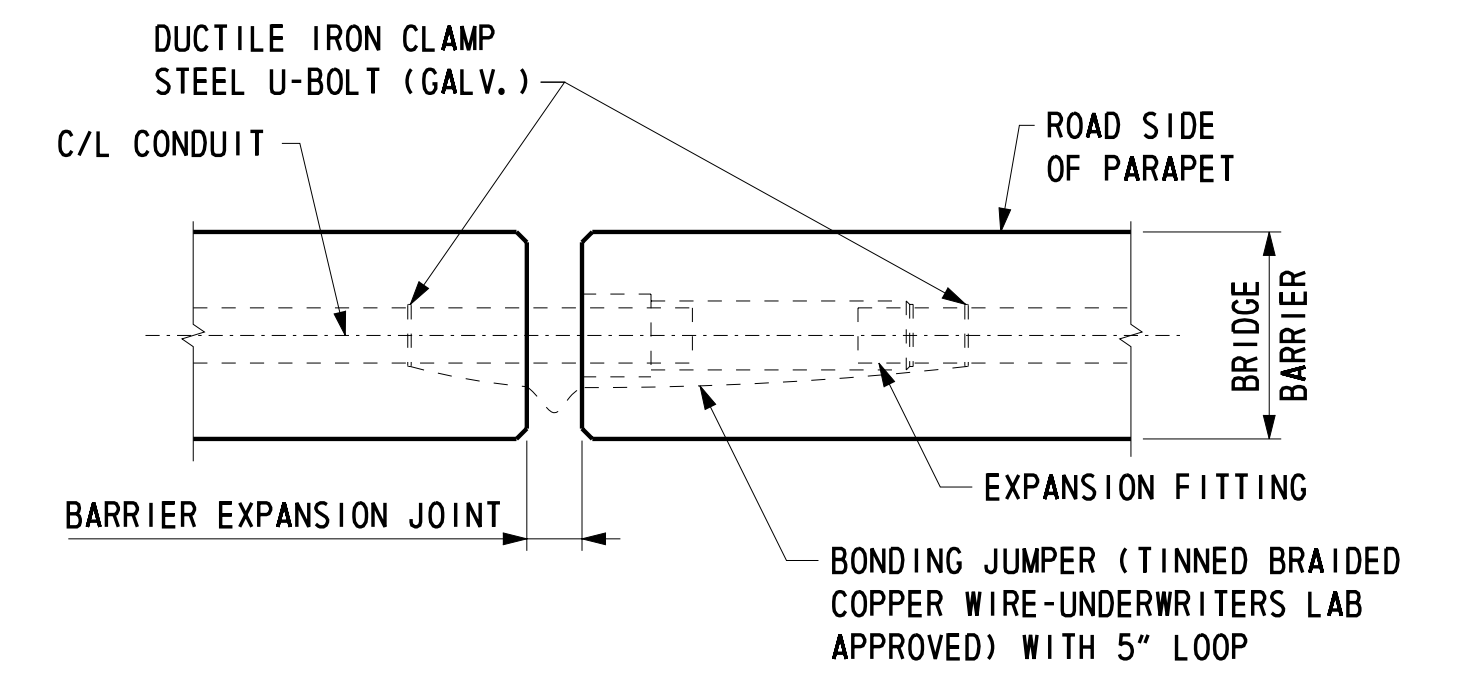
3" DOT-E AND ITMS CONDUITS
IN BRIDGE 1-477N BARRIER TYPICAL



3" DOT-E AND 3" TOLL-E CONDUITS
IN BRIDGE 1-479 BARRIER TYPICAL

CONDUIT LOCATIONS IN BRIDGE BARRIER SECTIONS

SCALE: 1" = 1'-0"



EXPANSION JOINT FOR CONDUIT IN BARRIER

NOT TO SCALE

NOTES:

- CONDUIT TO EXIT BARRIER ON OUTSIDE OF GUIDE RAIL POST LINE TO AVOID DAMAGE TO CONDUIT.
- CONDUITS MUST BE STAGGERED AND AS WIDELY SPACED AS PRACTICAL.
- JUNCTION BOXES IN BARRIERS SHALL BE HEAVY DUTY, DUST TIGHT AND RAIN TIGHT EQUAL TO COOPER CROUSE HINDS 'WJFB' SERIES
- JUNCTION BOXES SHALL BE INSTALLED FLUSH WITH THE FACE OF BARRIER.
- CONDUITS, CONDUIT EXPANSION JOINTS AND JUNCTION BOXES IN BARRIER WILL BE PROVIDED AND INSTALLED BY STRUCTURE CONTRACTOR. LIGHTING/ELECTRICAL CONTRACTOR TO COORDINATE WITH BRIDGE STRUCTURE CONTRACTOR FOR TRANSITION OF UNDERGROUND CONDUIT TO BARRIER'S EMBEDDED CONDUITS.
- BRIDGE STRUCTURE CONTRACTOR TO PROVIDE EXPANSION JOINTS AS REQUIRED.

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8/22/2015

Steve Lambert



ADDENDUMS / REVISIONS	

**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

**LIGHTING PLAN
LIGHTING DETAILS 5**

LI-30
SHEET NO. 1029
TOTAL SHTS. 1256

PANELBOARD - SPUR ROAD LIGHTING CONTROL CENTER (TYPE 'R' LC-03)

277/480V 3 PHASE, 4 WIRE + GND 200 AMP M.C.B.		600 AMP BUS 200 AMP 3P CONTACTOR LUMINAIRE VOLTAGE: 277 VOLTS															
CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD		PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS			REMARKS	CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD		PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS			REMARKS
		KW	AMPS		NUMBER OF POLES	FRAME SIZE	TRIP SIZE				KW	AMPS		NUMBER OF POLES	FRAME SIZE	TRIP SIZE	
1	LST-37	0.3	1.2	A/277	3	100A	20A	1-250W HPS	2	LST-38, LST-41, LST-44	0.9	3	1/277	3	20A	20A	
3	LST-36	0.3	1.2	B/277				1-250W HPS	4	LST-39, LST-42	0.6	1	1/277				
5	(NO LOAD)	-	-	C/277					6	LST-40, LST-43	0.6	2	1/277				
7	LST-45, LST-48, LST-51	1.0	3.6	A/277	3	100A	20A	3-250W HPS	8	LST-52	0.3	1	1/277	3	20A	20A	
9	LST-47, LST-50	0.7	2.4	B/277				2-250W HPS	10	LST-53	0.3	1	1/277				
11	LST-46, LST-49	0.7	2.4	C/277				2-250W HPS	12	(NO LOAD)	-	1	1/277				
13	/				3	100A	20A		14	/			3	20A	20A		
15	SPARE							16	SPARE								
17	/							18	/								
19	SPACE								20	SPACE							
21	SPACE								22	SPACE							
23	SPACE								24	SPACE							

PANELBOARD - ARMSTRONG CORNER ROAD LIGHTING CONTROL CENTER (TYPE 'R' LC-04)

277/480V 3 PHASE, 4 WIRE + GND 200 AMP M.C.B.		600 AMP BUS 200 AMP 3P CONTACTOR LUMINAIRE VOLTAGE: 277 VOLTS															
CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD		PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS			REMARKS	CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD		PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS			REMARKS
		KW	AMPS		NUMBER OF POLES	FRAME SIZE	TRIP SIZE				KW	AMPS		NUMBER OF POLES	FRAME SIZE	TRIP SIZE	
1	LST-65	0.3	1.2	A/277	3	100A	20A	1-250W HPS	2	LST-54, LST-57	0.7	2.4	A/277	3	100A	20A	2-250W HPS
3	LST-64	0.3	1.2	B/277				1-250W HPS	4	LST-56	0.3	1.2	B/277				1-250W HPS
5	LST-63	0.3	1.2	C/277				1-250W HPS	6	LST-55	0.3	1.2	C/277				1-250W HPS
7	LST-66, LST-69	0.7	2.4	A/277	3	100A	20A	2-250W HPS	8	LST-58, LST-61	0.7	2.4	A/277	3	100A	20A	2-250W HPS
9	LST-67, LST-70	0.7	2.4	B/277				2-250W HPS	10	LST-59, LST-62	0.7	2.4	B/277				1-250W HPS
11	LST-68	0.7	1.2	C/277				1-250W HPS	12	LST-60	0.3	1.2	C/277				1-250W HPS
13	/				3	100A	20A		14	/			3	100A	20A		
15	SPARE							16	SPARE								
17	/							18	/								
19	SPACE								20	SPACE							
21	SPACE								22	SPACE							
23	SPACE								24	SPACE							

NOTES:

- PANELBOARD SHALL HAVE A MINIMUM SIZE OF 24 SPACES TO ACCOMMODATE FUTURE USE.
- ALL LIGHTING CONTROL CENTER PANELBOARDS SHALL HAVE BOLT-ON CIRCUIT BREAKERS.

\$FILES \$DATES \$USERS



ADDENDUMS / REVISIONS

NOT TO SCALE

US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

LIGHTING PLAN
LIGHTING SCHEDULES 1

LI-31
SHEET NO.
1030
TOTAL SHTS.
1256

PANELBOARD - CONNECTOR RD/SUMMIT BRIDGE RD INTERSECTION NW CORNER - LIGHTING CONTROL CENTER (TYPE 'R' LC-05)

277/480V 3 PHASE, 4 WIRE + GND 200 AMP M.C.B.		600 AMP BUS 200 AMP 3P CONTACTOR LUMINAIRE VOLTAGE: 277 VOLTS																				
CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD		PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS			REMARKS	CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD		PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS			REMARKS					
		KW	AMPS		NUMBER OF POLES	FRAME SIZE	TRIP SIZE				KW	AMPS		NUMBER OF POLES	FRAME SIZE	TRIP SIZE						
1	LST-106, LST-109, LST-112, LST-115	1.3	4.8	A/277	3	100A	20A	4-250W HPS	2	LST-80, LST-83, LST-86	1.0	3.6	1/277	3	100A	20A	3-250W HPS					
3	LST-107, LST-110, LST-113, LST-116	1.3	4.8	B/277				4-250W HPS	4	LST-81, LST-84, LST87	1.0	3.6	1/120				3-250W HPS					
5	LST-108, LST-111, LST-114	1.0	3.6	C/277				3-250W HPS	6	LST-82, LST-85	1.0	2.4	1/120				3-250W HPS					
7					3	100A	20A		8				3	100A	20A							
9	SPARE										10	SPARE										
11											12											
13	SPACE								14	SPACE												
15	SPACE								16	SPACE												
17	SPACE								18	SPACE												
19	SPACE								20	SPACE												
21	SPACE								22	SPACE												
23	SPACE								24	SPACE												

PANELBOARD - CONNECTOR RD/SUMMIT BRIDGE RD INTERSECTION SW CORNER - LIGHTING CONTROL CENTER (TYPE 'M' LC-06)

120/240V SINGLE PHASE, 3 WIRE + GND 100 AMP M.C.B.		200 AMP BUS 100 AMP 2P CONTACTOR LUMINAIRE VOLTAGE : 120 VOLTS															
CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD		PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS			REMARKS	CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD		PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS			REMARKS
		KW	AMPS		NUMBER OF POLES	FRAME SIZE	TRIP SIZE				KW	AMPS		NUMBER OF POLES	FRAME SIZE	TRIP SIZE	
1	LST-95	0.2	1.6	A/120	2	100A	20A	CONTRACT T201011301 LIGHT POLE	2	LST-133, LST-135	0.4	3.3	A/120	2	100A	20A	CONTRACT T201011301 LIGHT POLE
3	LST-131	0.4	3.3	B/120				CONTRACT T201011301 LIGHT POLE	4	LST-132, LST-134	0.4	1.6	B/120				CONTRACT T201011301 LIGHT POLE
5	LST-96	0.2	1.6	A/120	2	100A	20A	CONTRACT T201011301 LIGHT POLE	6	LST-94, LST-92, LST-90, LST-71, LST-73, LST-74, WP-1	1.375	11.4	A/120	2	100A	20A	6-150W HPS 1-200W HPS
7	LST-136	0.2	1.6	B/120				CONTRACT T201011301 LIGHT POLE	8	LST-93, LST-91, WP-2, LST-88, LST-72	1.05	9.0	B/120				4-150W HPS 1-200W HPS
9	LST-97, LST-99, LST-90A, WP-4	0.85	7.0	A/120	2	100A	20A	3-150W HPS 1-200W HPS	10				2	100A	20A		
11	LST-98, LST-100, LST-89, WP-3	0.85	7.0	B/120				3-150W HPS 1-200W HPS	12	SPARE							
13					2	100A	20A		14	SPACE							
15	SPARE											16	SPACE				
17	SPACE								18	SPACE							
19	SPACE								20	SPACE							
21	SPACE								22	SPACE							
23	SPACE								24	SPACE							

NOTES:

- PANELBOARD SHALL HAVE A MINIMUM SIZE OF 24 SPACES TO ACCOMMODATE FUTURE USE.
- ALL LIGHTING CONTROL CENTER PANELBOARDS SHALL HAVE BOLT-ON CIRCUIT BREAKERS.

\$FILES

\$DATES

\$USERS



ADDENDUMS / REVISIONS

NOT TO SCALE

US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: A. AGGARWAL
NEW CASTLE	CHECKED BY: D. L. BAKER

LIGHTING PLAN
LIGHTING SCHEDULES 2

LI-32
SHEET NO.
1031
TOTAL SHTS.
1256

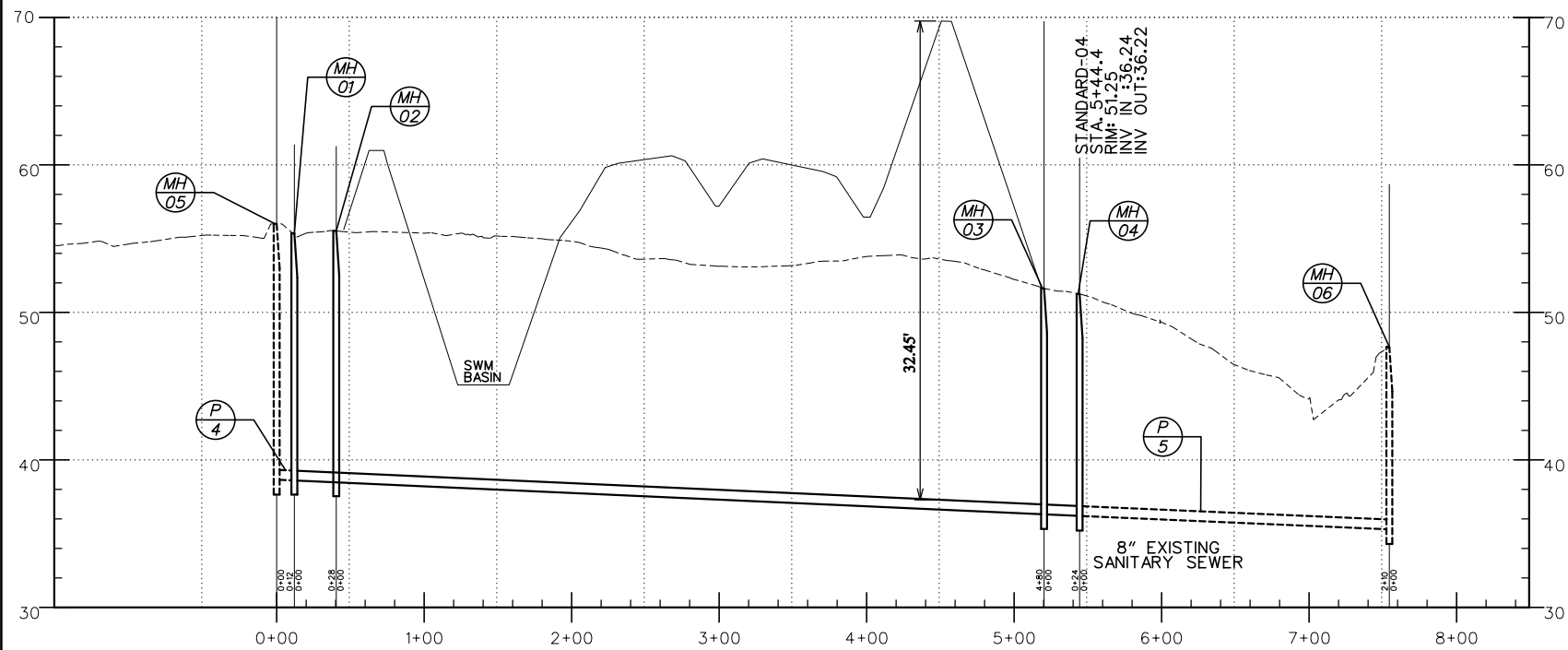
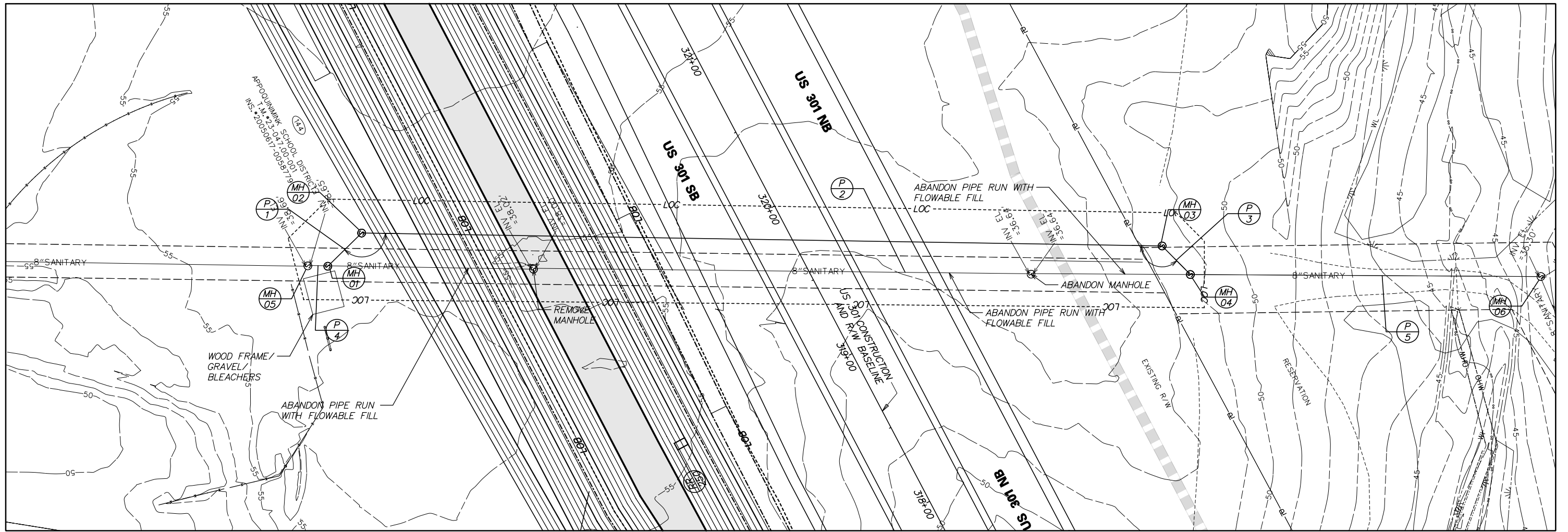
GENERAL NOTES

1. THE CONTRACTOR SHALL CONTACT THE TOWN OF MIDDLETOWN DEPARTMENT OF PUBLIC WORKS AT 302-378-2211 AT LEAST 48 HOURS IN ADVANCE OF STARTING CONSTRUCTION.
2. ALL UTILITIES PLOTTED ON THE DRAWINGS ARE FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR, PRIOR TO LAYING A RUN OF PIPE OR OTHER INVOLVED CONSTRUCTION, SHALL EXCAVATE WITHIN THE ALIGNMENT AT POINTS OF POSSIBLE CONFLICT TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE ENGINEER AND THE UTILITY INVOLVED. THE ENGINEER SHALL DETERMINE THE SOLUTION. EXCAVATING, BACK FILLING AND RESTORATION OF THE TEST HOLES AS REQUIRED FOR UTILITY INVESTIGATIONS SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE UTILITIES AS SHOWN ON THE PLANS.
3. ALL CONSTRUCTION SHALL BE PERFORMED TO THE SATISFACTION OF THE ENGINEER, TOWN OF MIDDLETOWN DEPARTMENT OF PUBLIC WORKS (DPW), DELAWARE DEPARTMENT OF TRANSPORTATION (DELDOT) AND ALL RESPECTIVE UTILITY OWNERS IN ACCORDANCE WITH ALL APPLICABLE CONTRACT DRAWINGS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY AND PROTECTION IN ACCORDANCE W/APPLICABLE OSHA REGULATIONS.
5. NO DEBRIS SHALL BE BURIED ON SITE.
6. ALL COMMON FACILITIES INCLUDING, BUT NOT LIMITED TO: PAVED AREAS, SIDEWALKS, CURBING, LANDSCAPING, PUBLIC OPEN SPACE, AND/OR DRAINAGE FACILITIES SHALL BE KEPT IN GOOD REPAIR AND MAINTAINED IN A SAFE SANITARY CONDITION.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED UTILITIES WITH A MINIMUM OF 1 FT OF VERTICAL CLEARANCE AND 5 FT OF HORIZONTAL CLEARANCE FROM OTHER EXISTING AND PROPOSED UTILITIES. IN CASES WHERE THIS MINIMUM HORIZONTAL CLEARANCE IS NOT SHOWN OR FEASIBLE, THE CONTRACTOR MAY ALTER THESE MINIMUM CLEARANCES WITH THE APPROVAL OF THE TOWN OF MIDDLETOWN.
8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL MATERIALS FOR APPROVAL TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL MATERIALS ORDERED AND INSTALLED PRIOR TO THE ENGINEER'S REVIEW AND ACCEPTANCE WILL BE AT THE CONTRACTOR'S RISK.
9. ROUTINE PERIODIC INSPECTIONS DURING CONSTRUCTION OF THE UTILITY SYSTEM ARE DEEMED ACCEPTABLE TO THE OWNER AND DEPARTMENT. THESE INSPECTIONS DO NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATION AND RESPONSIBILITY FOR CONSTRUCTING IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE OWNER.
10. AFTER TESTING IS COMPLETE AND ALL COMPONENTS OF THE UTILITY SYSTEM ARE DEEMED ACCEPTABLE TO THE OWNER AND DEPARTMENT, THE CONTRACTOR SHALL SUBMIT THE AS-BUILT DRAWINGS TO THE OWNER. ANY DISCREPANCIES NOTED DURING THE FINAL INSPECTION SHALL BE CORRECTED BY THE CONTRACTOR WITHIN 30 DAYS.
11. THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF CONTRACT DRAWINGS ON WHICH HE SHALL NOTE, IN RED, THE ALIGNMENTS AND INVERTS OF ALL UNDERGROUND UTILITIES THAT ARE INSTALLED OR ENCOUNTERED DURING THE EXECUTION OF THE WORK. ALL DISCREPANCIES BETWEEN THE PLAN LOCATIONS AND ELEVATIONS OF BOTH THE EXISTING AND PROPOSED UTILITIES SHALL BE SHOWN ON THE AS-BUILT DRAWINGS TO BE MAINTAINED BY THE CONTRACTOR IN THE FIELD.
12. THE CONTRACTOR SHALL CONTACT BOB HERSHEY OF APPOQUINIMINK SCHOOL DISTRICT AT 302-376-4128 A MINIMUM 2 WEEKS IN ADVANCE OF STARTING CONSTRUCTION TO COORDINATE THE TEMPORARY RELOCATION OF THE PORTABLE STEEL BLEACHERS.

P:\CADD\26049040 US301\CIVIL\PLANS\2A\CP\AET\UR-01.DGN

SANITARY SEWER PLAN

 DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		NOT TO SCALE	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	UTILITY RELOCATION PLAN	UR-01
					T20091303	DESIGNED BY: JW JW		SHEET NO.
					COUNTY	CHECKED BY: DRB SF		1032
					NEW CASTLE			TOTAL SHTS.
							1256	



SANITARY MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
01	0+12.00	00.00	TYPE A2	55.36	38.58
02	0+40.40	00.00	TYPE A2	55.53	38.45
03	5+20.40	00.00	TYPE A2	51.62	36.34
04	5+44.40	00.00	TYPE A2	51.25	38.65

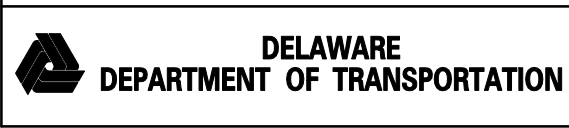
SANITARY PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	8" D. I.	54	28.0'	0.40%	38.58	38.47
2	8" D. I.	54	480.0'	0.44%	38.45	36.36
3	8" D. I.	54	24.0'	0.40%	36.34	36.24

EXISTING SANITARY MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
05	0+00.00	00.00	-	56.00	38.65
06	7+54.41	00.00	-	47.65	35.30

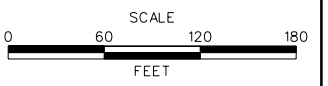
EXISTING SANITARY PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
4	8" D. I.	54	12.0'	0.49%	38.65	38.60
5	8" D. I.	54	210.0'	0.43%	36.22	35.30

NOTE:
 1. CALL MISS UTILITY (1-800-257-7777) 48 HOURS BEFORE WORK IS TO BEGIN.
 2. 48-HOUR NOTICE MUST BE GIVEN TO THE TOWN OF MIDDLETOWN PRIOR TO ANY CONSTRUCTION STARTING.
 3. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN OF MIDDLETOWN'S "MANUAL OF CONSTRUCTION SPECIFICATIONS AND DETAILS FOR ROADS AND UTILITIES."

SANITARY SEWER PLAN



ADDENDUMS / REVISIONS	

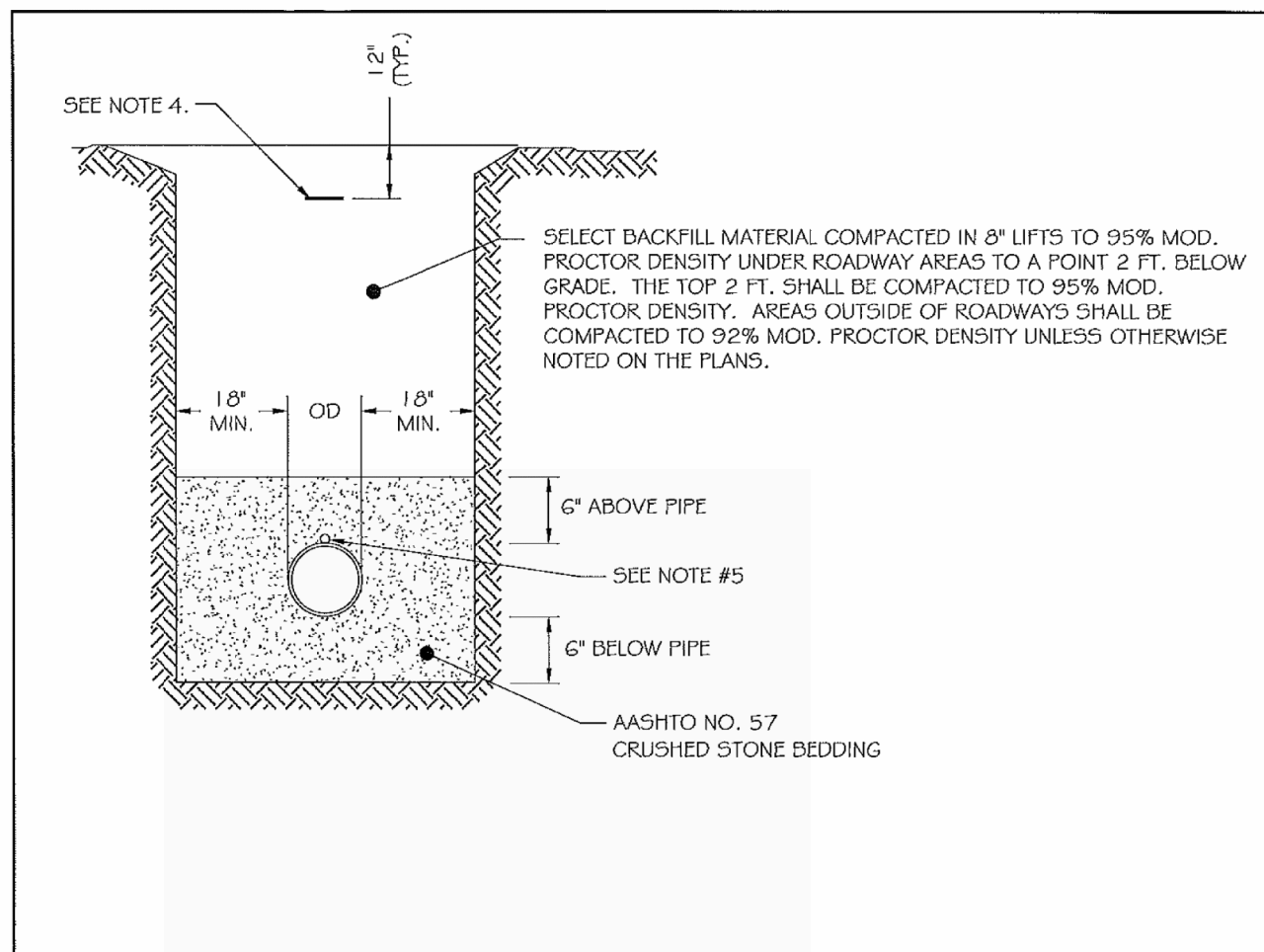


US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T20091303	
COUNTY	DESIGNED BY: JW JW
NEW CASTLE	CHECKED BY: DRB SF

UTILITY RELOCATION PLAN

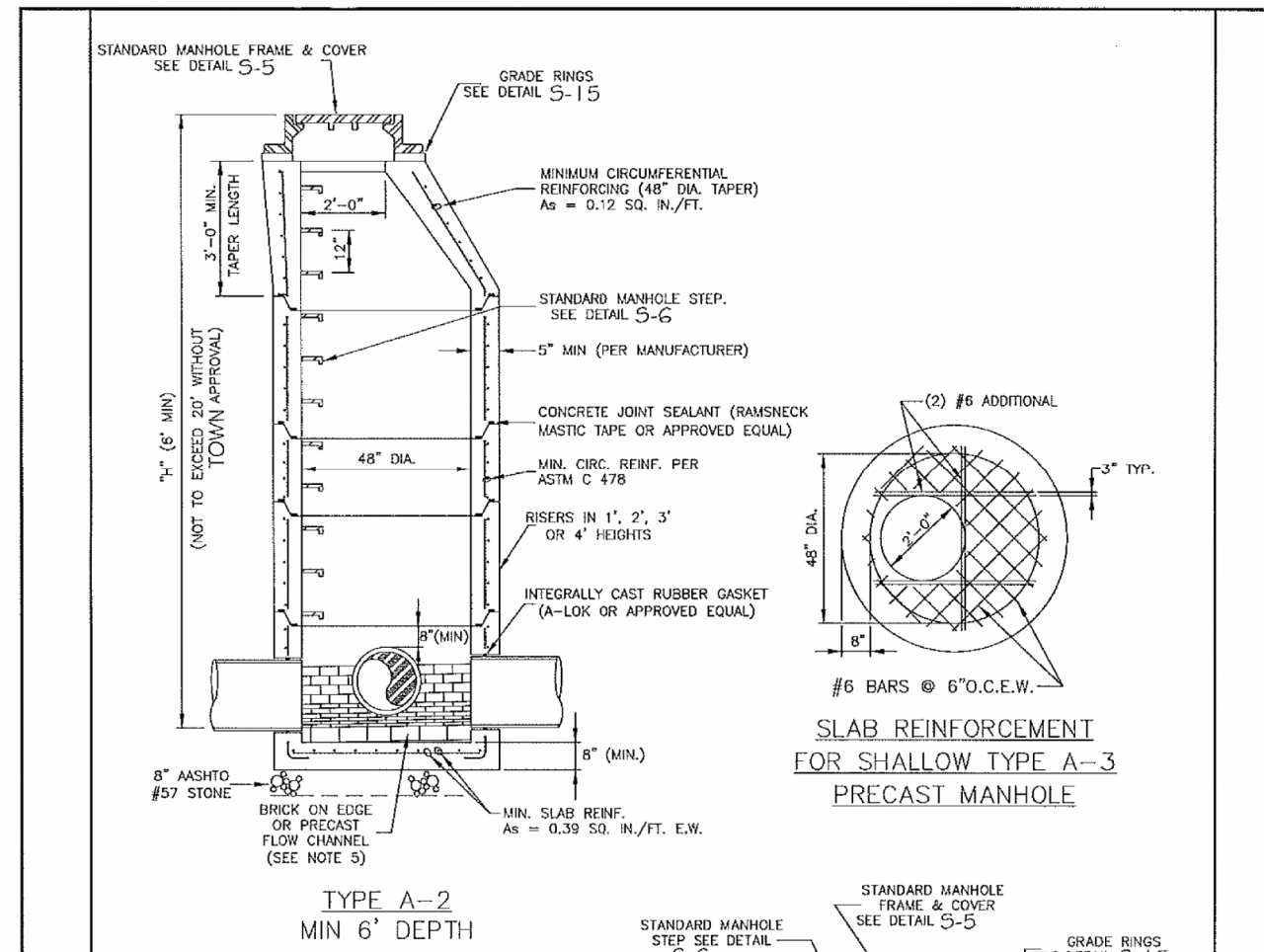
UR-02
SHEET NO.
1033
TOTAL SHTS.
1256



NOTES:

- TRENCH SHALL BE BRACED OR SHIELDED IN ACCORDANCE WITH OSHA REGULATIONS.
- PROVIDE BEARING FULL LENGTH OF BARREL.
- DIG BELL HOLES.
- INSTALL METALLIC DETECTOR TAPE FOR GRAVITY MAINS LOCATED OUTSIDE THE ROAD RIGHT-OF-WAY AND FORCEMAINS PER SPECS AT 1' BELOW FINISHED GRADE.
- TRACER WIRE TO BE INSTALLED ON ALL FORCEMAINS.

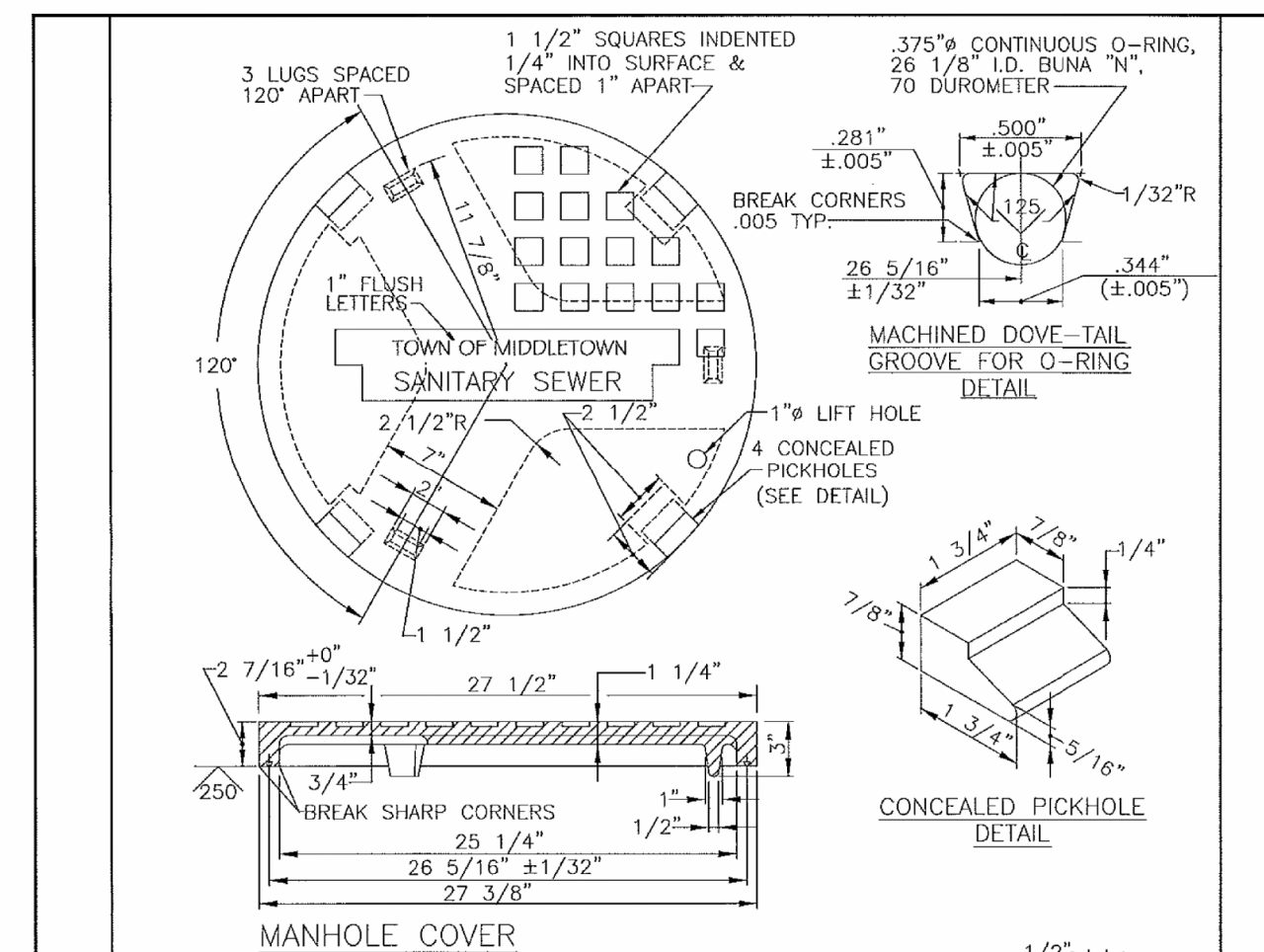
ISSUED	2010		PIPE BEDDING & TRENCH DETAIL
REVISED			SANITARY SEWER DETAILS
SOURCE		DEPARTMENT OF PUBLIC WORKS	STANDARD NO. S-1



NOTES:

- UNLESS OTHERWISE NOTED, MANHOLE TAPERS, REBERS AND BOXES SHALL BE FURNISHED IN SITU ACCORDING TO NEW REGULATION C470 (OR LATEST) FOR PRECAST REINFORCED CONCRETE MANHOLES.
- ALL MANHOLES SHALL BE 4000 PSI MIN. CONCRETE.
- REINFORCING FOR TYPE A-3 MANHOLE SHALL BE TYPE A-2 MANHOLE, EXCEPT AS NOTED.
- MANHOLE STEPS SHALL BE SPACED AS SHOWN IN A SINGLE VERTICAL ALIGNMENT. THE STEPS SHALL NOT BE SPACED TO CENTERLINE OF STEP ORIENTATION TO BE ALIGNED OVER TOP OF BENCH AND NOT FLOW CHANNEL. BOTTOM STEP SHALL BE WITHIN 12" OF THE BENCH.
- FLOW CHANNEL IN MANHOLE MAY BE BRICK ON EDGE OR PRECAST CONCRETE (4000 PSI MIN). NO CAST IN PLACE FLOW CHANNELS. SLOPE OF BRICK TO BE 1/4" FT. MIN. TOWARD CHANNEL.
- SLOPE ACROSS MANHOLE CHANNEL TO BE 0.1' MIN.

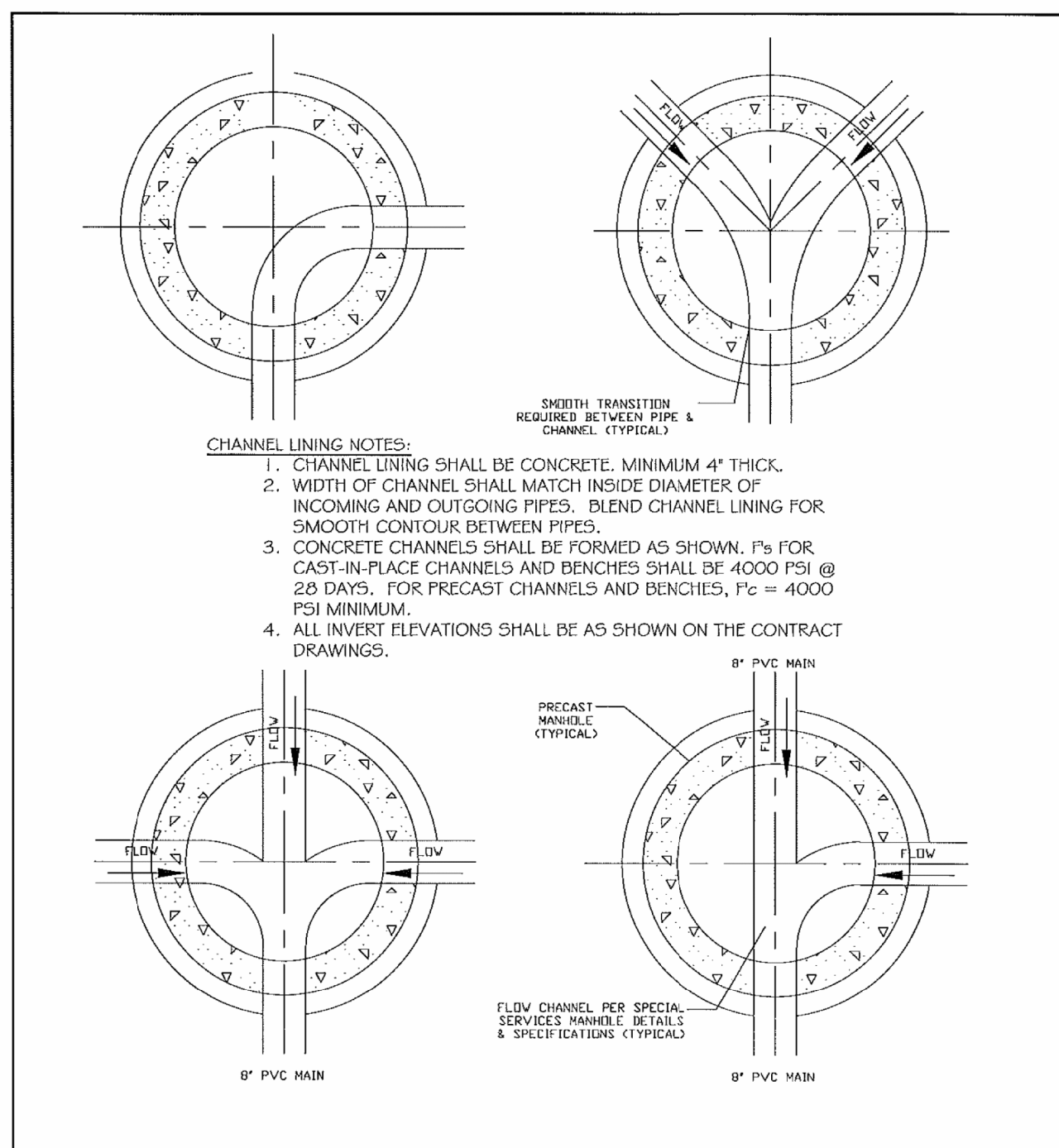
ISSUED	2010		STANDARD 48" PRECAST CONCRETE MANHOLE
REVISED			SANITARY SEWER DETAILS
SOURCE	NEW CASTLE COUNTY	DEPARTMENT OF PUBLIC WORKS	STANDARD NO. S-2



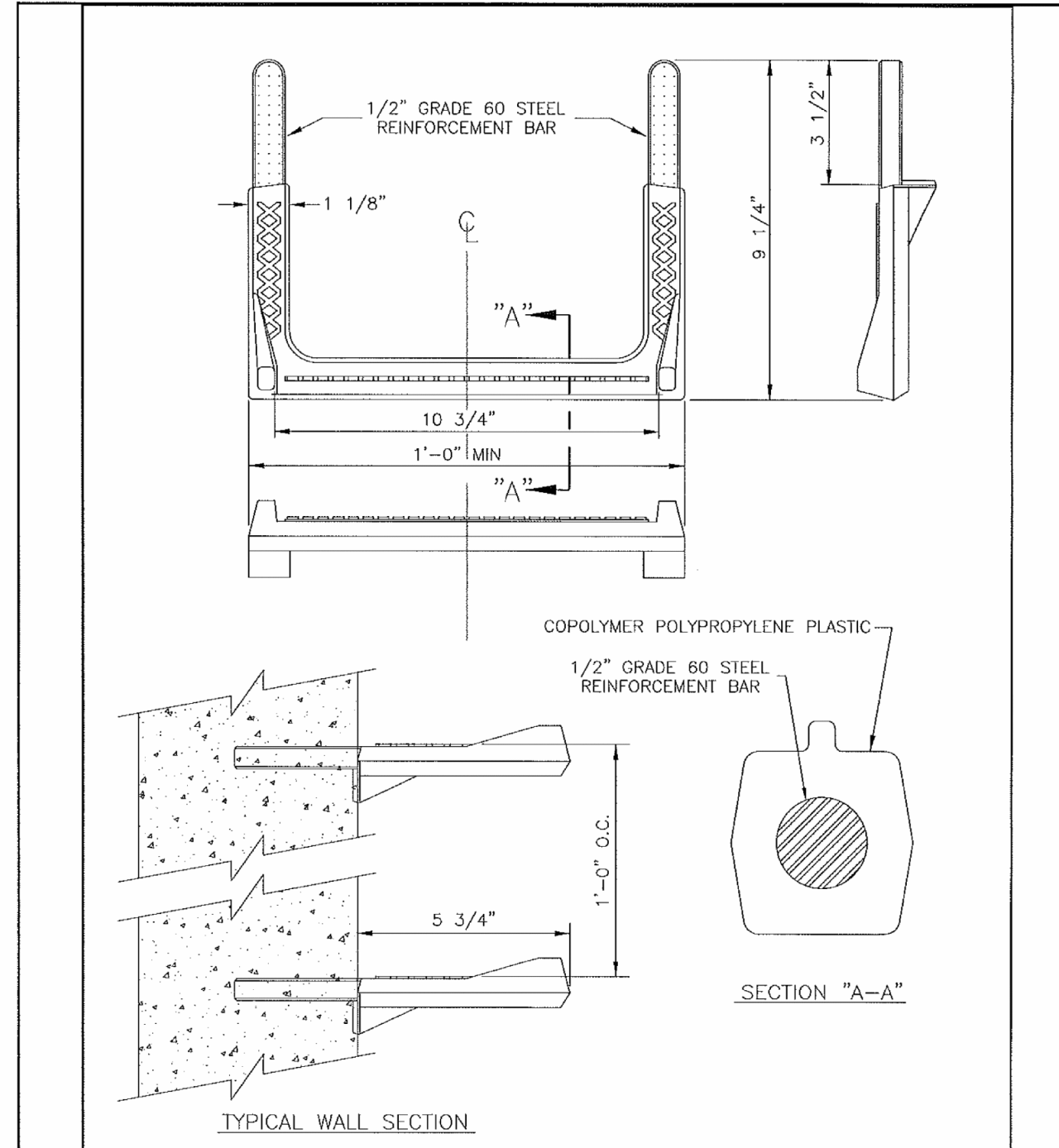
NOTES:

- UNLESS OTHERWISE NOTED, MANHOLE TAPERS, REBERS AND BOXES SHALL BE FURNISHED IN SITU ACCORDING TO NEW REGULATION C470 (OR LATEST) FOR PRECAST REINFORCED CONCRETE MANHOLES.
- ALL MANHOLES SHALL BE 4000 PSI MIN. CONCRETE.
- REINFORCING FOR TYPE A-3 MANHOLE SHALL BE TYPE A-2 MANHOLE, EXCEPT AS NOTED.
- MANHOLE STEPS SHALL BE SPACED AS SHOWN IN A SINGLE VERTICAL ALIGNMENT. THE STEPS SHALL NOT BE SPACED TO CENTERLINE OF STEP ORIENTATION TO BE ALIGNED OVER TOP OF BENCH AND NOT FLOW CHANNEL. BOTTOM STEP SHALL BE WITHIN 12" OF THE BENCH.
- FLOW CHANNEL IN MANHOLE MAY BE BRICK ON EDGE OR PRECAST CONCRETE (4000 PSI MIN). NO CAST IN PLACE FLOW CHANNELS. SLOPE OF BRICK TO BE 1/4" FT. MIN. TOWARD CHANNEL.
- SLOPE ACROSS MANHOLE CHANNEL TO BE 0.1' MIN.

ISSUED	2010		STANDARD MANHOLE FRAME AND COVER
REVISED			SANITARY SEWER DETAILS
SOURCE	NEW CASTLE COUNTY	DEPARTMENT OF PUBLIC WORKS	STANDARD NO. S-5



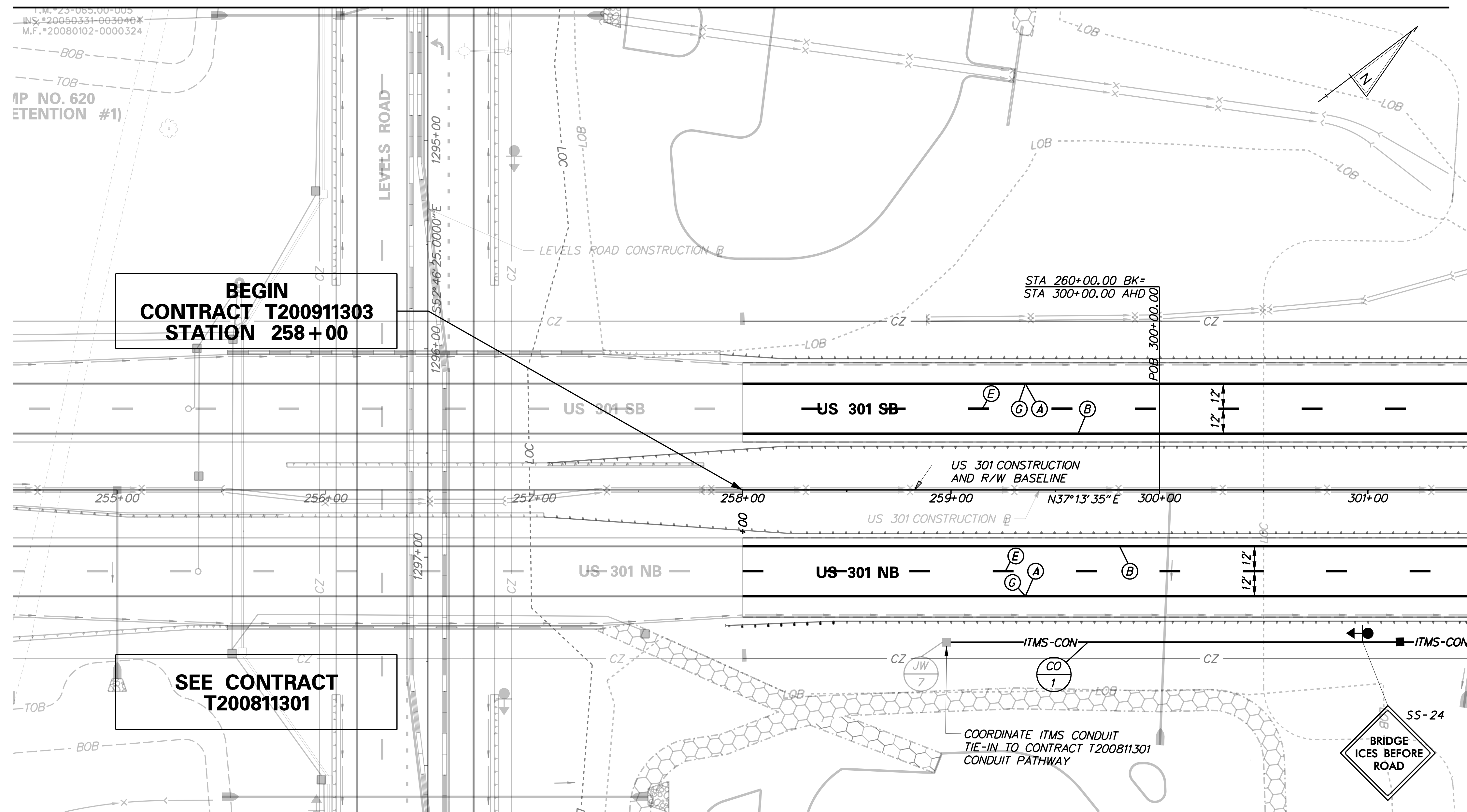
ISSUED	2010		TYPICAL CHANNELIZATION OF MAINLINE SEWER MANHOLES
REVISED			SANITARY SEWER DETAILS
SOURCE		DEPARTMENT OF PUBLIC WORKS	STANDARD NO. S-9



ISSUED	2010		SANITARY SEWER MANHOLE STEPS
REVISED			SANITARY SEWER DETAILS
SOURCE	NEW CASTLE COUNTY	DEPARTMENT OF PUBLIC WORKS	STANDARD NO. S-6

SANITARY SEWER PLAN

MATCHLINE SHEET SS-04



PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	700 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	700 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	175 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	700 LF

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

**BEGIN
CONTRACT T200911303
STATION 258+00**

**SEE CONTRACT
T200811301**

MATCHLINE STA 301+50 SEE SHEET SS-02

PROJECT SIGNING NOTES:

- THE CONTRACTOR SHALL INSTALL AND REMOVE THE REGULATORY, WARNING AND SPECIAL SIGNS AND POSTS WITHIN THE CONTRACT LIMITS, AS SHOWN. DELDOT SHALL FABRICATE AND SUPPLY THE REGULATORY, WARNING AND SPECIAL SIGNS AND POSTS TO THE CONTRACTOR. FOR COORDINATION AND PICK UP OF ALL SIGNS AND POSTS, THE CONTRACTOR SHALL CONTACT DELDOT'S SIGN SHOP AT 302-760-2581. ALLOW FOUR (4) WEEKS FOR DELIVERY. ALL SIGNING MATERIALS REMOVED FROM THIS PROJECT SHALL BE RETURNED TO DELDOT'S SIGN SHOP.
- ALL SIGNS AND PAVEMENT STRIPING SHALL BE INSTALLED IN COMPLIANCE WITH THE DELDOT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE-MUTCD) PART 2 AND 3.
- THE CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS AND DELINEATORS IN ACCORDANCE WITH THE DE-MUTCD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND REMOVAL OF ALL PROPOSED, TEMPORARY AND EXISTING MARKINGS AS REQUIRED. ALL PROPOSED MARKINGS SHALL TIE INTO EXISTING MARKINGS IN ACCORDANCE WITH THE DE-MUTCD AND AS DIRECTED BY THE ENGINEER.
- AN AUTHORIZED REPRESENTATIVE OF DELDOT'S PAVEMENT MARKINGS SECTION SHALL BE ASSIGNED AS THE PROJECT COORDINATOR FOR THE REMOVAL AND INSTALLATION OF PAVEMENT MARKINGS AND SHALL BE PRESENT DURING EACH REMOVAL AND INSTALLATION OPERATION. PAYMENT WILL NOT BE MADE FOR ANY WORK DONE WHEN THE PROJECT COORDINATOR, OR DESIGNEE, IS NOT PRESENT. THE ENGINEER SHALL CONTACT DELDOT'S PAVEMENT MARKINGS SECTION AT 302-760-2588 TWO WEEKS PRIOR TO BEGINNING THE PAVEMENT MARKING WORK.
- REMOVAL OF EXISTING RAISED/RECESSED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR BUT WILL BE INCIDENTAL TO ITEM NO. 760507 - PROFILE MILLING, HOT MIX.
- IN LOCATIONS WHERE PAVEMENT MARKING REMOVAL HAS LEFT "SHADOWS", PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK 6" (ITEM NO. 748536) MAY BE USED TO COVER "SHADOWS" AS DIRECTED BY THE AUTHORIZED REPRESENTATIVE OF DELDOT'S PAVEMENT MARKINGS SECTION.
- INSTALLATION OR REMOVAL OF GROUND MOUNT SIGNS ON STANDARD SIGN POSTS SHALL BE PAID FOR UNDER ITEM NOS. 749687 - INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) AND SINGLE POST AND 749690 - INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) AND MULTIPLE SIGN POSTS. INSTALLATION OF GROUND MOUNT SIGNS ON STEEL BEAM SIGN SUPPORTS SHALL BE PAID FOR UNDER ITEM NO. 749556 - INSTALLATION OF SIGN ON GROUND MOUNT POSTS.
- ALL PROPOSED ITMS CONNECTIONS AND TERMINATIONS SHALL BE COMPLETED BY DELDOT TRAFFIC FORCES. THE CONTRACTOR SHALL CONTACT DELDOT'S SIGNAL CONSTRUCTION MANAGER AT 302-222-5920 TEN (10) DAYS PRIOR TO ANY REQUIRED CONNECTION AND TERMINATION WORK.
- 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'S SIGNAL CONSTRUCTION MANAGER AT 302-222-5920 TEN (10) DAYS PRIOR TO COMPLETION.
- 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 AND WORK WITHIN THE CONTRACTOR'S PROPOSED SCHEDULE OF WORK.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ITMS CONDUITS WITH LIGHTING CONDUITS. ITMS AND LIGHTING CONDUITS MAY SHARE A COMMON TRENCH BUT SHALL NOT SHARE COMMON JUNCTION WELLS.

STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-24	③	WB-13	48" x 48"	1

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
1	1	4" PVC	260'	T	

B=BORE, T=TRENCH, O=OPEN CUT

G:\60049040-US301\CIVIL\PLANS\2A\CP\SS-01.DGN



ADDENDUMS / REVISIONS

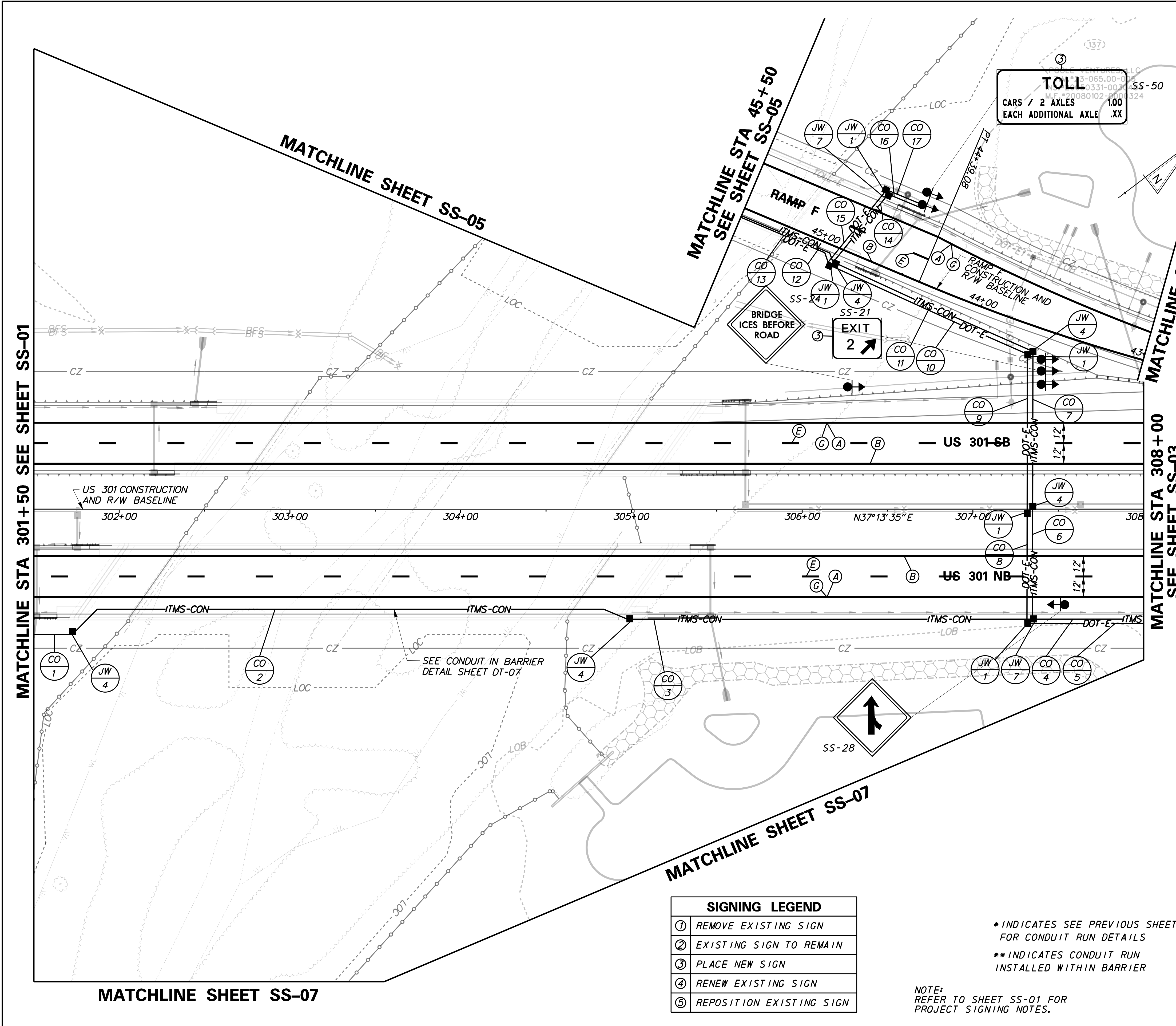
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JE JW
COUNTY	CHECKED BY:	DRB SF
NEW CASTLE		

**SIGNING, STRIPING &
CONDUIT PLAN**

SS-01
SHEET NO.
1035
TOTAL SHTS.
1256

G:\60049040-US301\CIVIL\PLANS\2A\CP\AET\SS-02.DGN



PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,548 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,550 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	355 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,548 LF

STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-21	(3)	E5-1A	72" x 60"	1
SS-24	(3)	WB-13	48" x 48"	1
SS-28	(3)	W4-1R	48" x 48"	1
SS-50	(3)	R3-2B	114" x 48"	1

CONDUIT RUN SCHEDULE					
CR#	# OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
1	*	*	*	T	*
2	1	4" PVC	330'	**	
3	1	4" PVC	235'	T	
4	3	4" PVC	270'	T	
5	2	4" GRS	270'	T	
6	3	4" PVC	65'	T	
7	3	4" PVC	95'	T	
8	2	4" GRS	65'	T	
9	2	4" GRS	95'	T	
10	2	4" GRS	125'	T	
11	3	4" PVC	125'	T	
12	3	4" PVC	205'	**	
13	2	4" GRS	205'	**	3-1/C #8 AWG
14	1	4" PVC	55'	T	
15	1	2" GRS	55'	T	3-1/C #8 AWG
16	1	4" PVC	25'	T	
17	1	2" GRS	25'	T	3-1/C #8 AWG

B=BORE, T=TRENCH, O=OPEN CUT

SIGNING LEGEND	
(1)	REMOVE EXISTING SIGN
(2)	EXISTING SIGN TO REMAIN
(3)	PLACE NEW SIGN
(4)	RENEW EXISTING SIGN
(5)	REPOSITION EXISTING SIGN

* INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS
 ** INDICATES CONDUIT RUN INSTALLED WITHIN BARRIER

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.

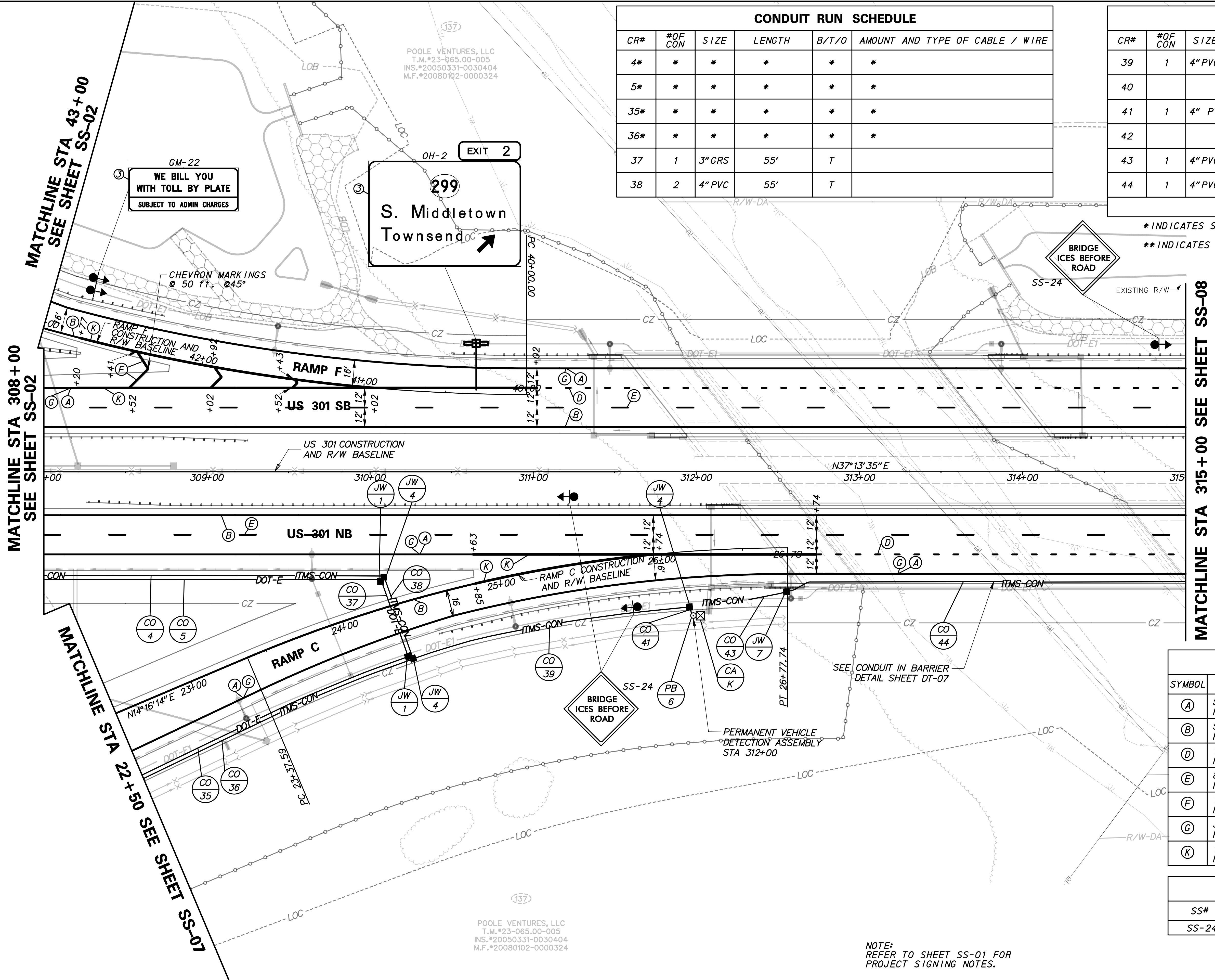
<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS	<p>SCALE</p>	<p>US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD</p>		CONTRACT	BRIDGE NO.	<p>SIGNING, STRIPING & CONDUIT PLAN</p>	SS-02
					T200911303	DESIGNED BY: JE JW		SHEET NO.
					COUNTY	CHECKED BY: DRB SF		1036
					NEW CASTLE			TOTAL SHTS.
							1256	

POOLE VENTURES, LLC
T.M.#23-065.00-005
INS.#20050331-0030404
M.F.#20080102-0000324

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
4*	*	*	*	*	*
5*	*	*	*	*	*
35*	*	*	*	*	*
36*	*	*	*	*	*
37	1	3" GRS	55'	T	
38	2	4" PVC	55'	T	

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
39	1	4" PVC	165'	T	
40					NOT USED
41	1	4" PVC	10'	T	
42					NOT USED
43	1	4" PVC	65'	T	
44	1	4" PVC	295'	**	

B=BORE, T=TRENCH, O=OPEN CUT
*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS
**INDICATES CONDUIT RUN INSTALLED WITHIN BARRIER



SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1, 648 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1, 658 LF
(D)	1.3" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	156 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	350 LF
(F)	12' SOLID WHITE RETROFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	53 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1, 648 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	785 LF

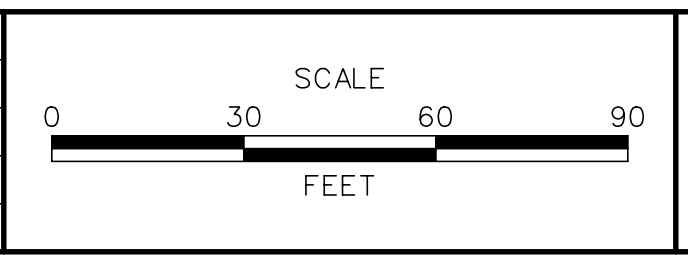
STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-24	③	WB-13	48" x 48"	3

NOTE:
REFER TO SHEET SS-01 FOR
PROJECT SIGNING NOTES.

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

SIGNING, STRIPING & CONDUIT PLAN	SS-03
	SHEET NO.
	1037
TOTAL SHTS.	1256

RAMP F
STATION 53+86.02
SEE CONTRACT T200811301

137
 POOLE VENTURES, LLC
 T.M.#23-065.00-005
 INS.#20050331-0030404
 M.F.#20080102-0000324

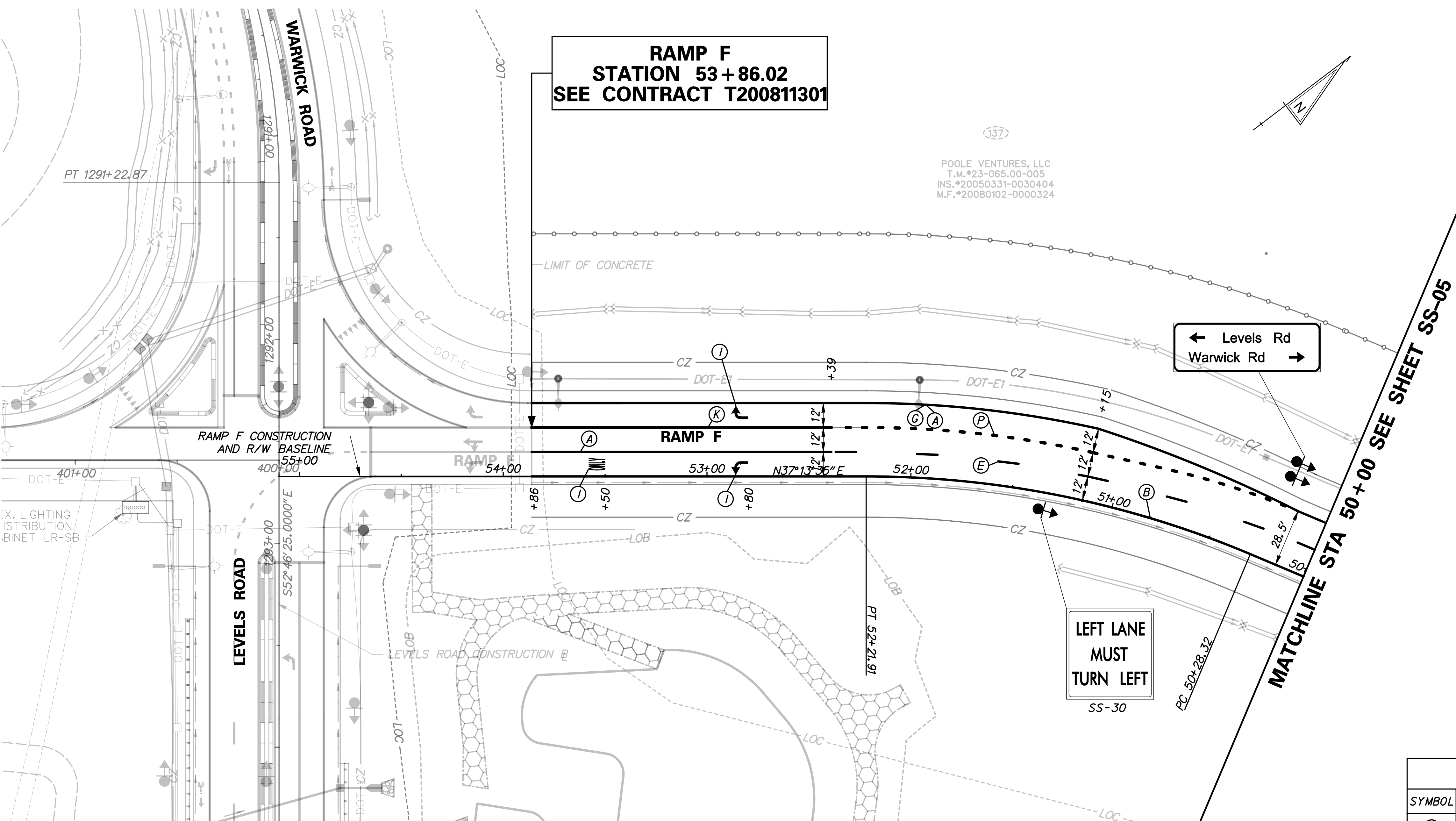
← Levels Rd
 Warwick Rd →

**LEFT LANE
 MUST
 TURN LEFT**
 SS-30

MATCHLINE STA 50+00 SEE SHEET SS-05

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	547 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	386 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	60 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	400 SF
(I)	RETROREFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	54 SF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	147 LF
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	59 LF



MATCHLINE SHEET SS-01

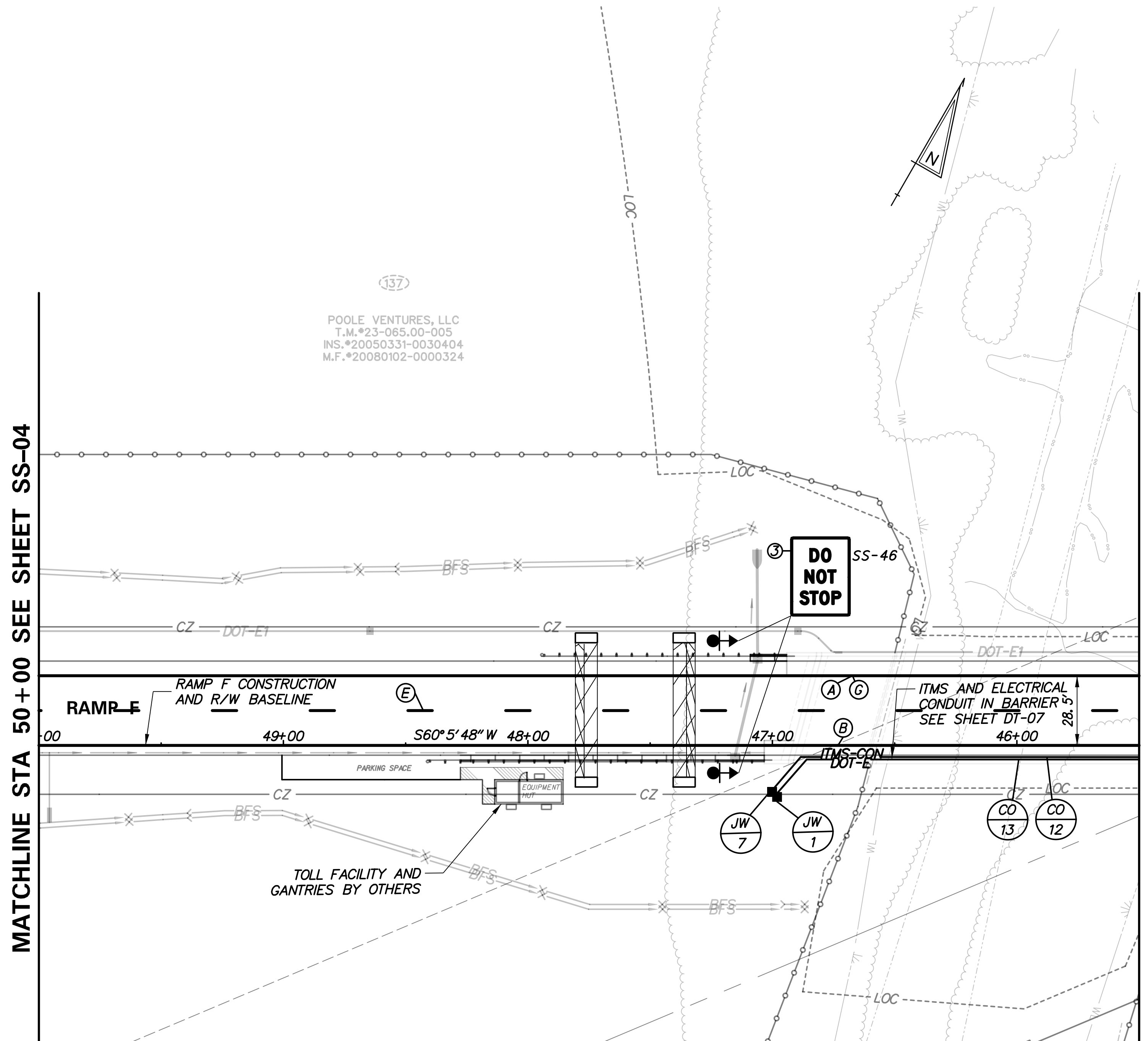
STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-30	③	R3-7L	30" x 30"	1
SS-47	③	D1-2	90" x 30"	1

NOTE:
 REFER TO SHEET SS-01 FOR
 PROJECT SIGNING NOTES.

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	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT T200911303	BRIDGE NO.	SIGNING, STRIPING & CONDUIT PLAN	SS-04
					COUNTY NEW CASTLE		DESIGNED BY: JE JW
				CHECKED BY: DRB SF		TOTAL SHTS. 1256	

137
 POOLE VENTURES, LLC
 T.M.#23-065,00-005
 INS.#20050331-0030404
 M.F.#20080102-0000324



MATCHLINE STA 50+00 SEE SHEET SS-04

MATCHLINE STA 45+50 SEE SHEET SS-02

MATCHLINE SEE SHEET SS-02

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
12	*	*	*	**	*
13	*	*	*	**	*

B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS
 **INDICATES CONDUIT RUN INSTALLED WITHIN BARRIER

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	450 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	450 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	113 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	450 LF

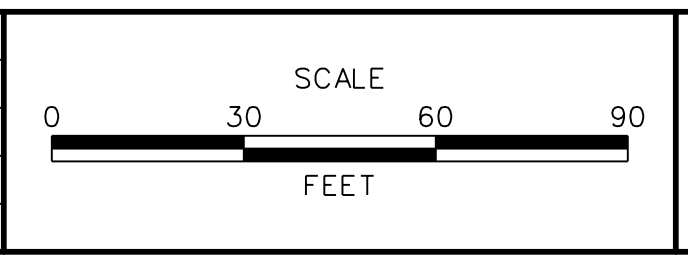
STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-46	③		36" x 48"	2

NOTE:
 REFER TO SHEET SS-01 FOR
 PROJECT SIGNING NOTES.

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DELAWARE
 DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	

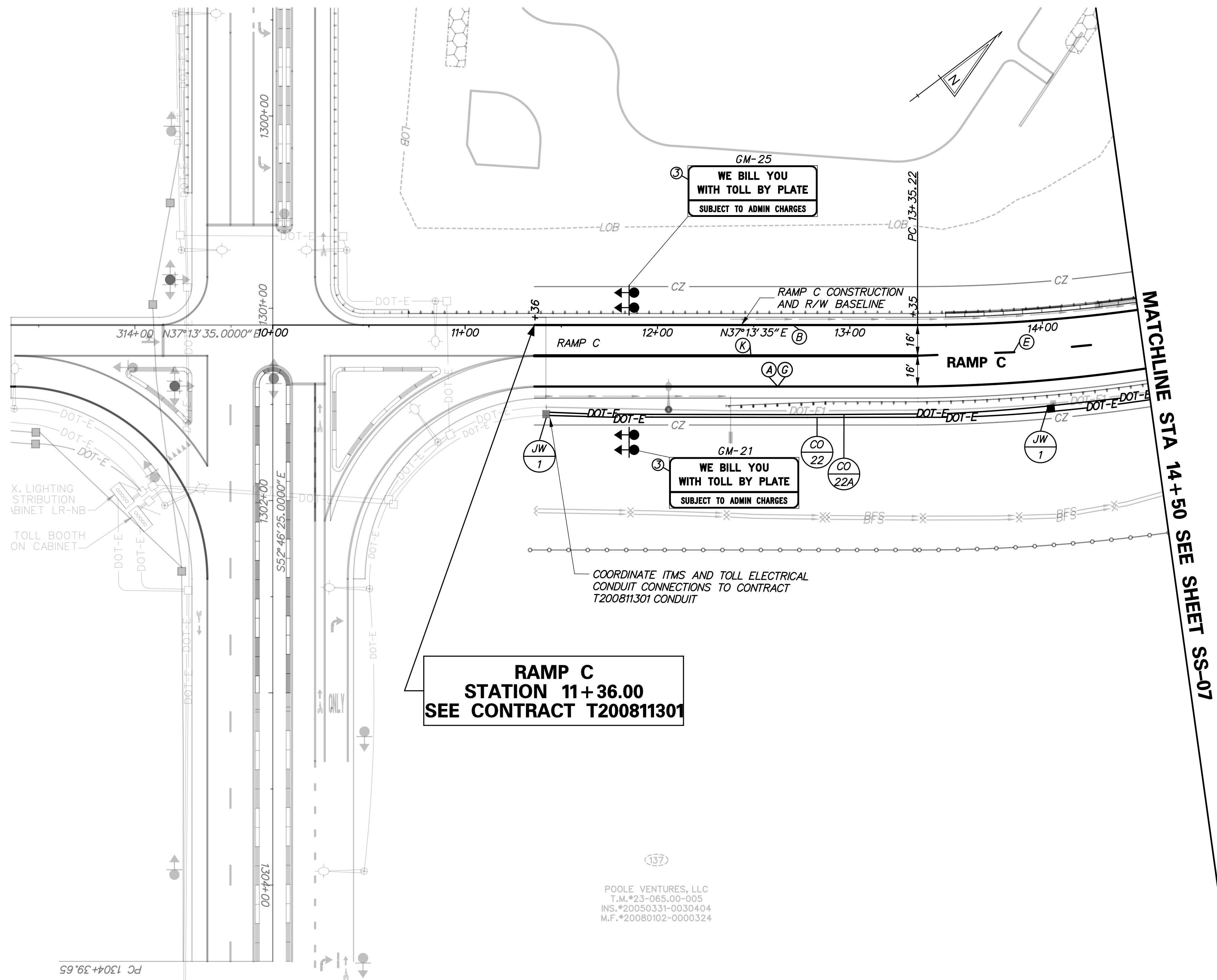


US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T20091303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

SIGNING, STRIPING &
 CONDUIT PLAN

SS-05
SHEET NO.
1039
TOTAL SHTS.
1256



CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
22	1	2"GRS	255'	T	3-1/C #2 AWG
22A	1	3"GRS	255'	T	4-1/C #350 KCMIL 1-1/C 2/O AWG GROUND

B=BORE, T=TRENCH, O=OPEN CUT

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	318 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	314 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	30 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	318 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	199 LF

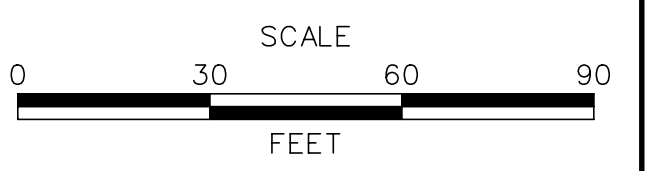
**RAMP C
STATION 11+36.00
SEE CONTRACT T200811301**

137
POOLE VENTURES, LLC
T.M.#23-065,00-005
INS.#20050331-0030404
M.F.#20080102-0000324

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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JE JW
COUNTY	CHECKED BY:	DRB SF
NEW CASTLE		

**SIGNING, STRIPING &
CONDUIT PLAN**

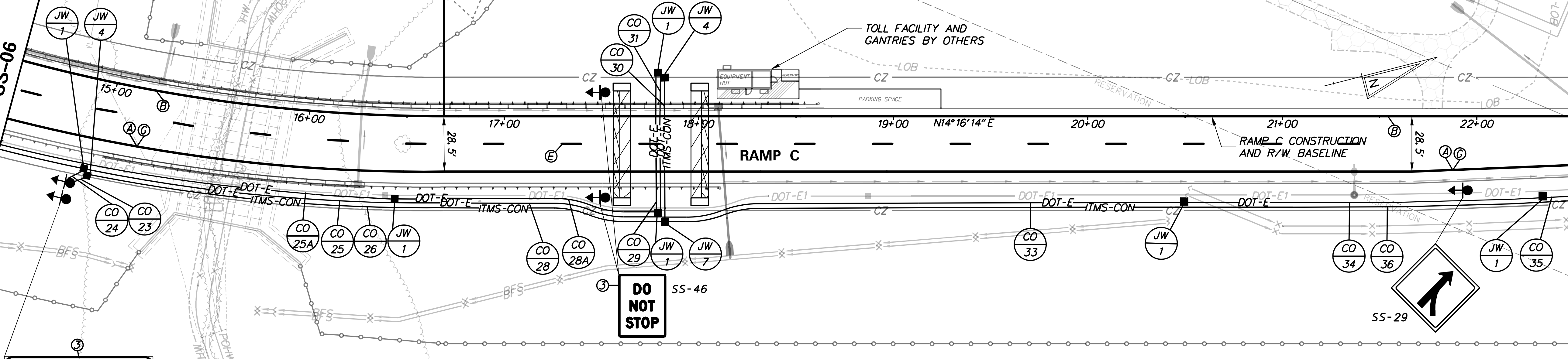
SS-06
SHEET NO.
1040
TOTAL SHTS.
1256

MATCHLINE STA 14+50 SEE SHEET SS-06

MATCHLINE SEE SHEET SS-02

MATCHLINE SEE SHEET SS-02

MATCHLINE STA 22+50 SEE SHEET SS-03



TOLL
CARS / 2 AXLES 1.00
EACH ADDITIONAL AXLE .XX

SIGNING LEGEND

①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	808 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	800 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	175 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	808 LF

CONDUIT RUN SCHEDULE

CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
23	1	4" PVC	10'	T	
24	1	2" GRS	10'	T	3-1/C #8 AWG
25	1	2" GRS	290'	T	3-1/C #2 AWG 3-1/C #8 AWG
25A	1	3" GRS	250'	T	4-1/C #350 KCMIL 1-1/C 2/O AWG GROUND
26	1	4" PVC	290'	T	
28	1	2" GRS	175'	T	3-1/C #2 AWG 3-1/C #8 AWG
28A	1	3" GRS	195'	T	4-1/C #350 KCMIL 1-1/C 2/O AWG GROUND
29	1	3" GRS	80'	T	4-1/C #350 KCMIL 1-1/C 2/O AWG GROUND

CONDUIT RUN SCHEDULE

CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
30	3	4" PVC	80'	T	
31	2	4" GRS	80'	T	3-1/C #8 AWG
33	2	4" GRS	260'	T	3-1/C #2 AWG
34	2	4" GRS	175'	T	3-1/C #2 AWG
35	2	4" GRS	195'	T	3-1/C #2 AWG
36	3	4" PVC	600'	T	

B=BORE, T=TRENCH, O=OPEN CUT

STANDARD SIGN SCHEDULE

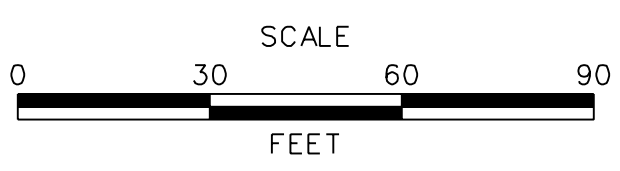
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-29	③	W4-5	48" x 48"	1
SS-46	③		36" x 48"	2
SS-50	③	R3-28	114" x 48"	1

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS
NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.

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ADDENDUMS / REVISIONS



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T20091303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

**SIGNING, STRIPING &
CONDUIT PLAN**

SS-07
SHEET NO.
1041
TOTAL SHTS.
1256

142
 APPOQUINIMINK SCHOOL DISTRICT,
 AN AGENCY OF THE STATE OF DELAWARE
 T.M.#23-048.00-035
 INS.#20050617-0058778
 M.F.#20080506-0031060

144
 APPOQUINIMINK SCHOOL DISTRICT,
 AN AGENCY OF THE STATE OF DELAWARE
 T.M.#23-047.00-001
 INS.#20050617-0058779
 M.F.#20080506-0031060
 TCE-1

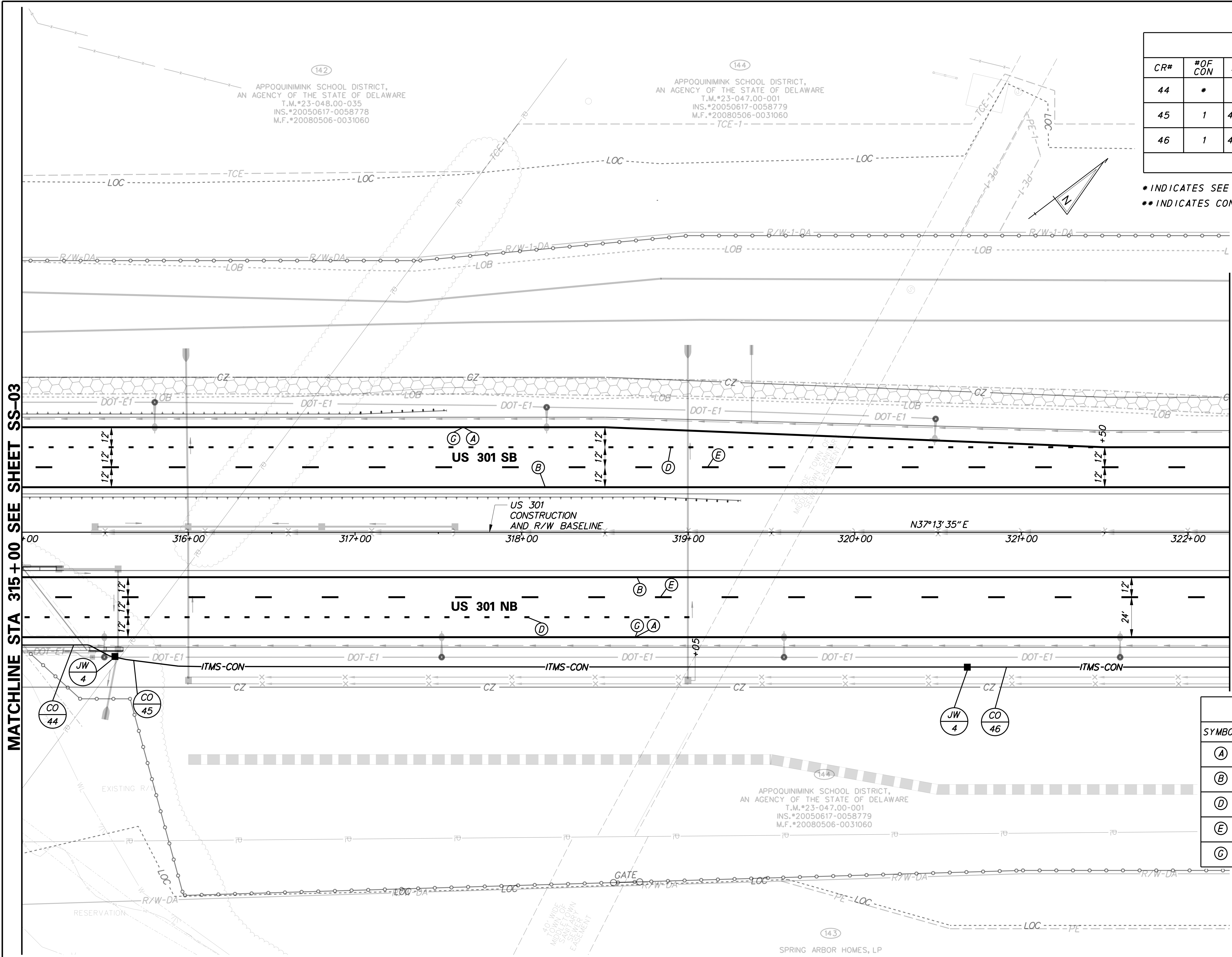
CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
44	*	*	*	**	*
45	1	4" PVC	510'	T	
46	1	4" PVC	395'	T	

B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS
 **INDICATES CONDUIT RUN INSTALLED WITHIN BARRIER

MATCHLINE STA 315+00 SEE SHEET SS-03

MATCHLINE STA 322+25 SEE SHEET SS-09



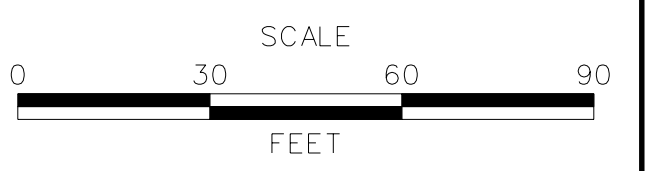
SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,450 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,450 LF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	264 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	362 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,450 LF

NOTE:
 REFER TO SHEET SS-01 FOR
 PROJECT SIGNING NOTES.



ADDENDUMS / REVISIONS



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JE JW
	CHECKED BY: DRB SF

**SIGNING, STRIPING &
 CONDUIT PLAN**

SS-08
SHEET NO. 1042
TOTAL SHTS. 1256

G:\60049040-US301\CIVIL\PLANS\2A\CPIAET\SS-08.DGN

144
 APOQUINIMINK SCHOOL DISTRICT,
 AN AGENCY OF THE STATE OF DELAWARE
 T.M.*23-047.00-001
 INS.*20050617-0058779
 M.F.*20080506-0031060

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
46*	*	*	*	T	*
47	1	4" PVC	435'	T	
48					NOT USED
49					NOT USED
50					NOT USED
50A					NOT USED
51	1	4" PVC	520'	T	
52					NOT USED

B=BORE, T=TRENCH, O=OPEN CUT
 *INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

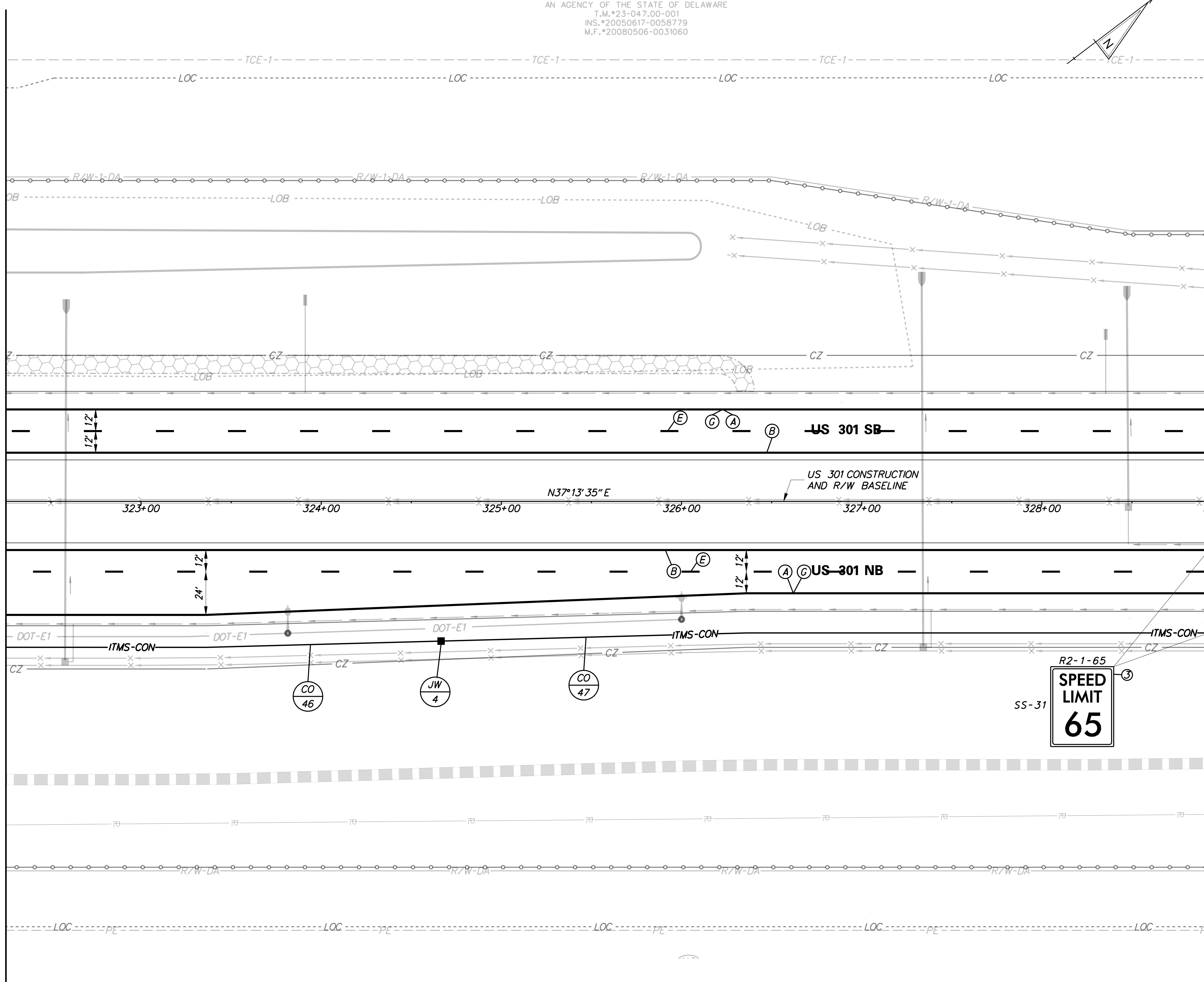
SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,450 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,450 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	362 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,450 LF

STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-31	③	R2-1-65	48" x 60"	2

MATCHLINE STA 322+25 SEE SHEET SS-08

MATCHLINE STA 329+50 SEE SHEET SS-10

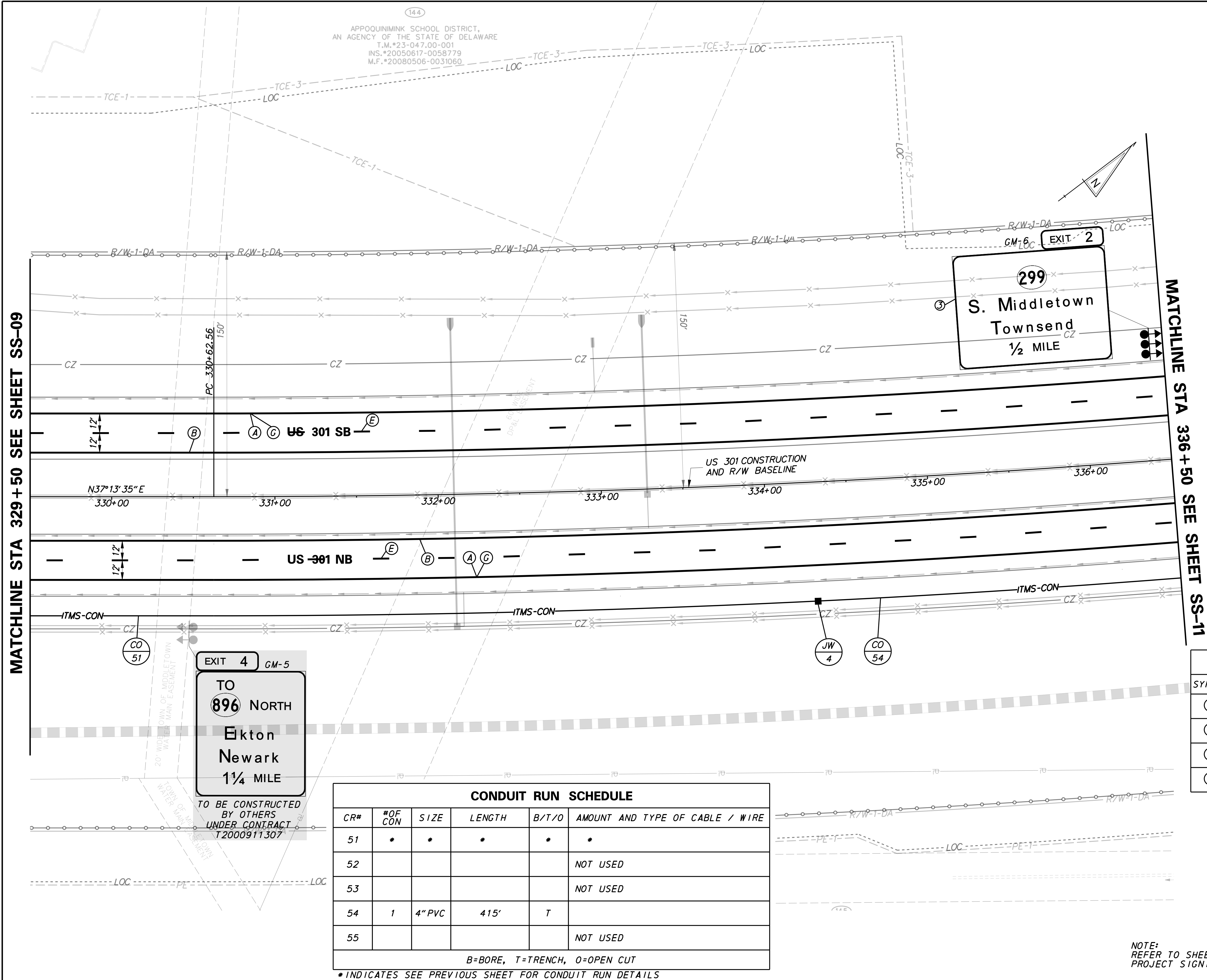


NOTE:
 REFER TO SHEET SS-01 FOR
 PROJECT SIGNING NOTES.

P:\CADD\260049040 US301\CIVIL\PLANS\2A\CP\AET\SS-09.DGN

	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD		CONTRACT T200911303	BRIDGE NO. 	SIGNING, STRIPING & CONDUIT PLAN	SS-09
	DELAWARE DEPARTMENT OF TRANSPORTATION		COUNTY NEW CASTLE	DESIGNED BY: JE JW CHECKED BY: DRB SF	SHEET NO. 1043	TOTAL SHTS. 1256		

144
 APPOQUINIMINK SCHOOL DISTRICT,
 AN AGENCY OF THE STATE OF DELAWARE
 T.M.#23-047.00-001
 INS.#20050617-0058779
 M.F.#20080506-0031060



SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
Ⓐ	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,400 LF
Ⓑ	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,400 LF
Ⓔ	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	350 LF
Ⓒ	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,400 LF

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
51	*	*	*	*	*
52					NOT USED
53					NOT USED
54	1	4" PVC	415'	T	
55					NOT USED

B=BORE, T=TRENCH, O=OPEN CUT
 *INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

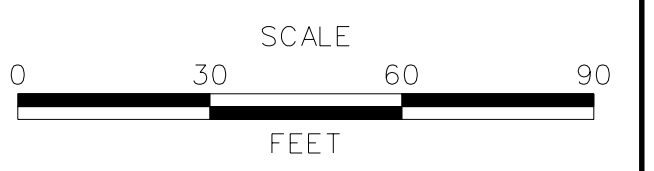
NOTE:
 REFER TO SHEET SS-01 FOR
 PROJECT SIGNING NOTES.

MATCHLINE STA 329+50 SEE SHEET SS-09

MATCHLINE STA 336+50 SEE SHEET SS-11



ADDENDUMS / REVISIONS	



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JE JW
	CHECKED BY: DRB SF

**SIGNING, STRIPING &
 CONDUIT PLAN**

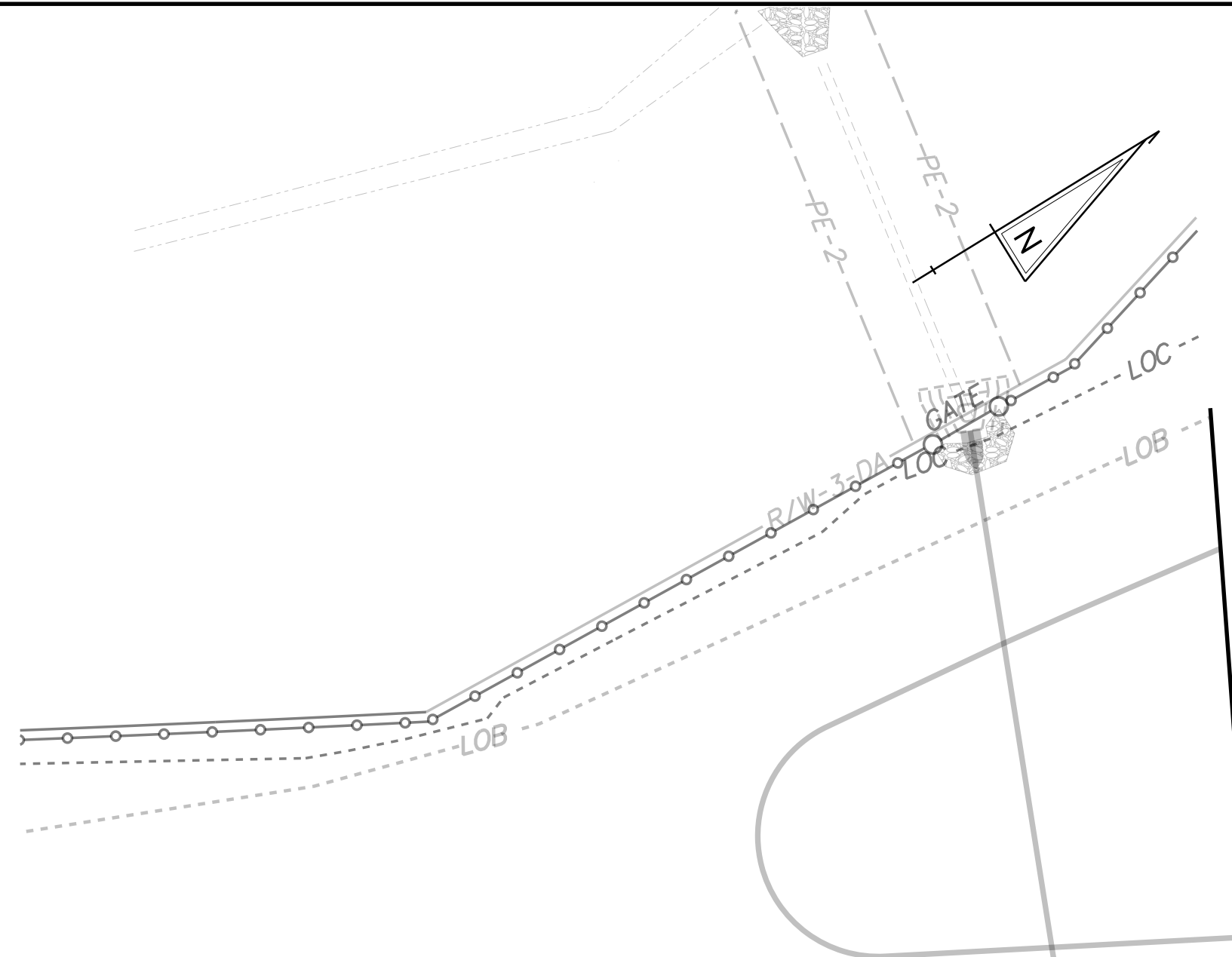
SS-10
SHEET NO. 1044
TOTAL SHTS. 1256

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CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
54	*	*	*	*	*
55					NOT USED
56					NOT USED
57	1	4" PVC	10'	T	
58					NOT USED
59	1	4" PVC	215'	T	
60					NOT USED
61	1	4" PVC	425'	T	
62					NOT USED
63					NOT USED

B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS



MATCHLINE STA 336+50 SEE SHEET SS-10

MATCHLINE STA 343+50 SEE SHEET SS-12

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

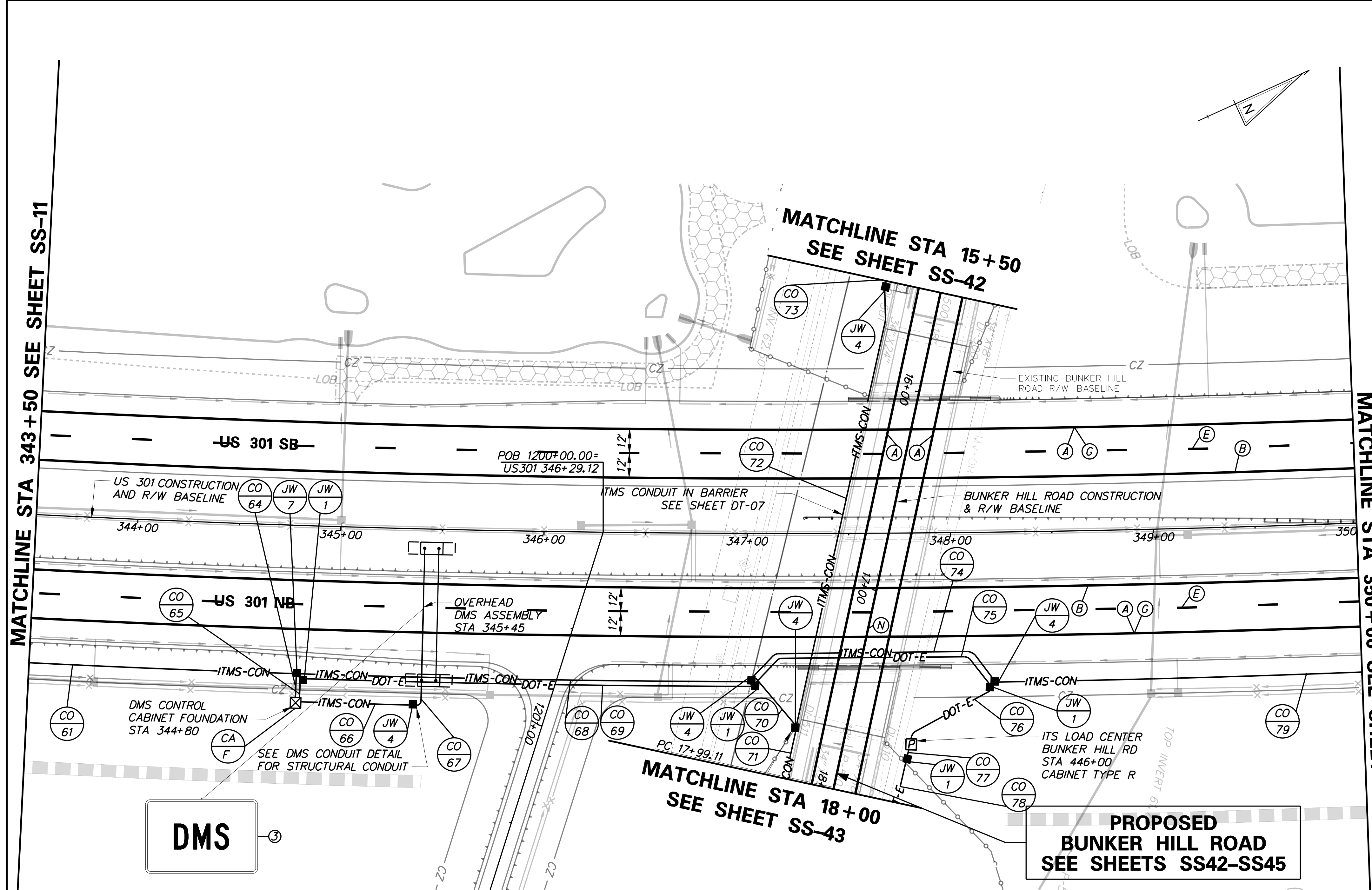
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,400 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,400 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	325 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,400 LF

PERMANENT VEHICLE DETECTION ASSEMBLY STA 338+43

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.

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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS	<p>SCALE</p>	<p>US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD</p>	CONTRACT	BRIDGE NO.	<p>SIGNING, STRIPING & CONDUIT PLAN</p>	SS-11
					T200911303		
				COUNTY	CHECKED BY: DRB SF		1045
				NEW CASTLE			TOTAL SHTS.
							1256



CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
61*	*	*	*	*	*
63*					NOT USED
64	1	4" PVC	15'	T	
65	1	2" GRS	15'	T	3-1/C #2 AWG
66	1	4" PVC	55'	T	DMS CONTROL CABLE
67	1	2" GRS	15'	T	DMS CONTROL CABLE
68	1	4" PVC	225'	T	
69	1	2" GRS	225'	T	3-1/C #2 AWG
70	1	4" PVC	30'	T	
71	1	4" PVC		T	
72	1	4" PVC	225'	**	
73*	*	*	*	*	*
74	1	4" PVC	125'	T	
75	1	2" GRS	125'	T	3-1/C #2 AWG
76	1	2" GRS	45'	T	3-1/C #2 AWG
77	1	2" GRS	10'	T	
78	1	2" GRS	60'	T	3-1/C #2 AWG SERVICE
79	1	4" PVC	210'	T	
80					NOT USED

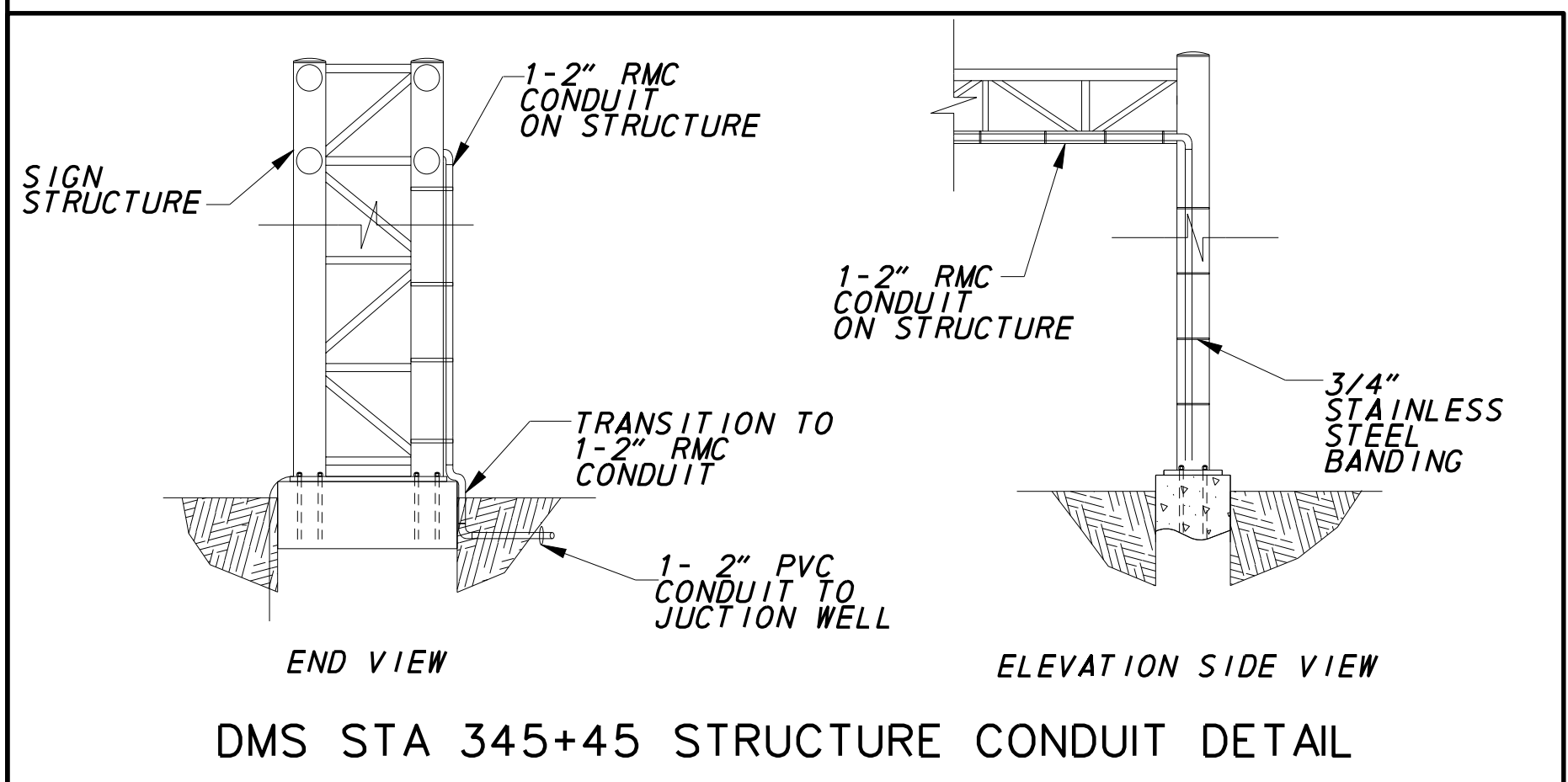
B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS
 **INDICATES CONDUIT RUN INSTALLED WITHIN BARRIER

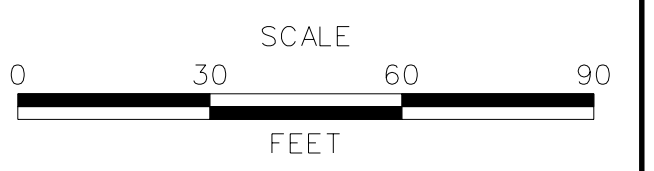
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,800 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,300 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	325 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,300 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	500 LF

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.



ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT T20091303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JE JW
	CHECKED BY: DRB SF

SIGNING, STRIPING & CONDUIT PLAN

SS-12
SHEET NO. 1046
TOTAL SHTS. 1256

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PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,500 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,500 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	375 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,500 LF

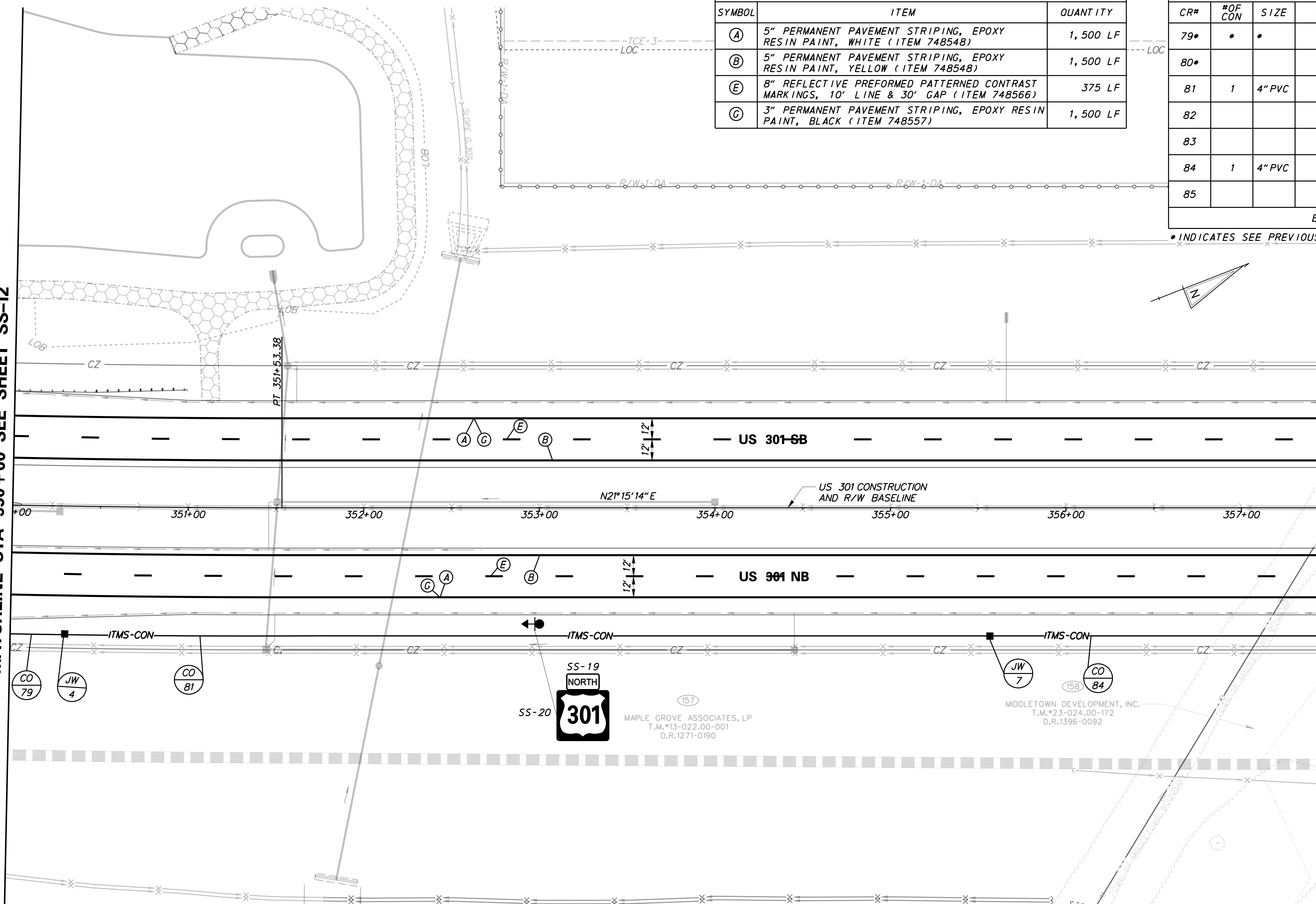
CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
79*	*	*	*	*	*
80*					NOT USED
81	1	4" PVC	525'	T	
82					NOT USED
83					NOT USED
84	1	4" PVC	480'	T	
85					NOT USED

B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

MATCHLINE STA 350+00 SEE SHEET SS-12

MATCHLINE STA 357+50 SEE SHEET SS-14



SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

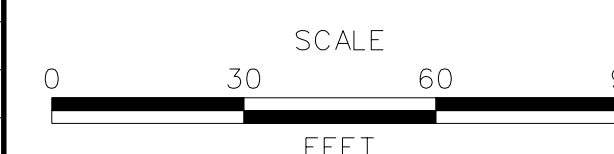
STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-19	③	M3-1	30" x 15"	1
SS-20	③	M1-4	60" x 48"	1

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.

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ADDENDUMS / REVISIONS



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T20091303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

**SIGNING, STRIPING &
CONDUIT PLAN**

SS-13
SHEET NO.
1047
TOTAL SHTS.
1256

157
 MAPLE GROVE ASSOCIATES, LP
 T.M.#13-022.00-001
 D.R.1271-0190

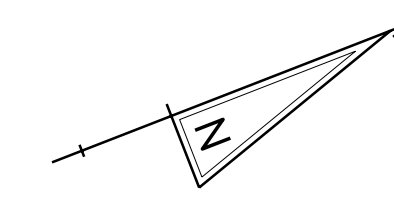
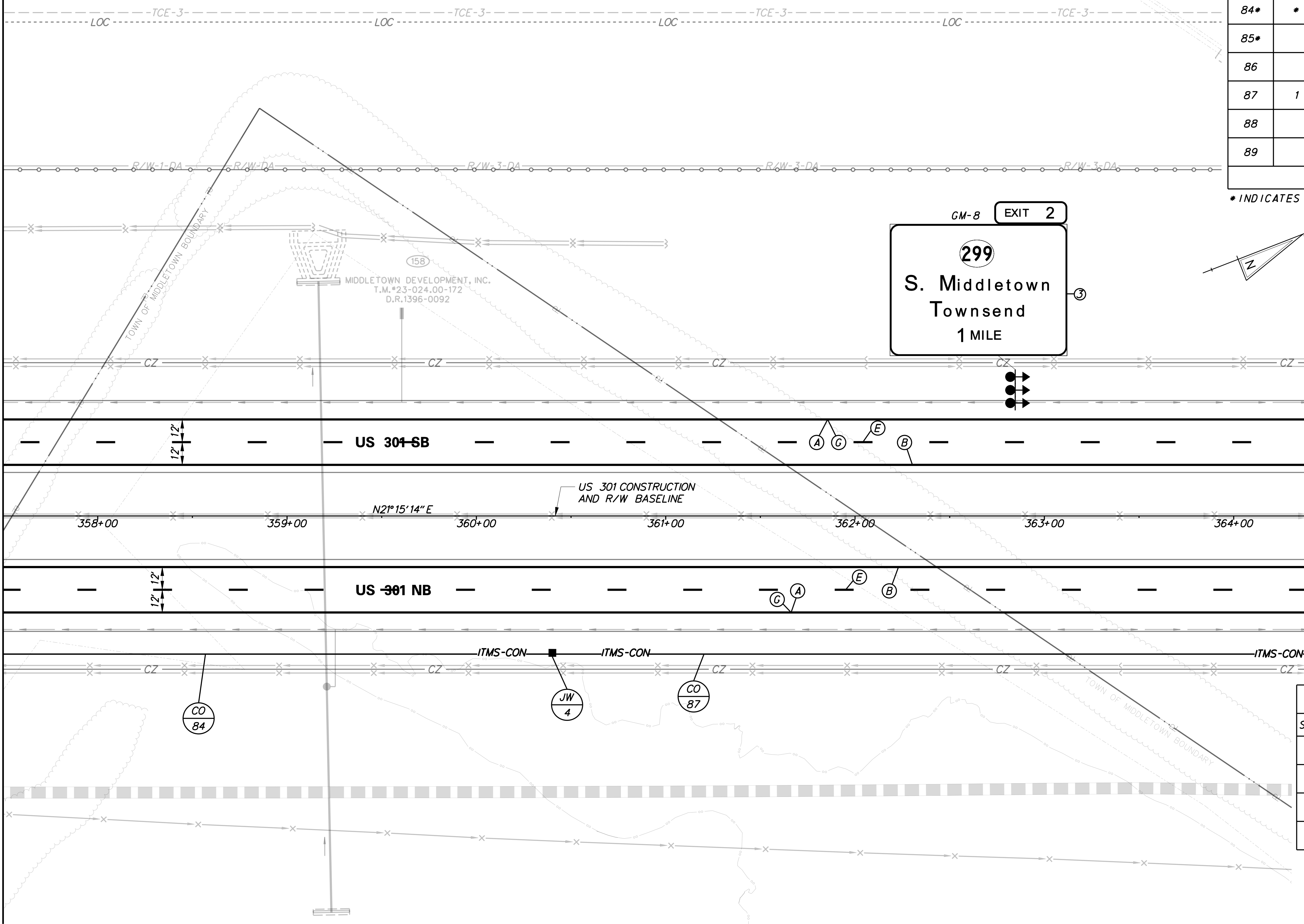
CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
84*	*	*	*	*	*
85*					NOT USED
86					NOT USED
87	1	4" PVC	440'	T	
88					NOT USED
89					NOT USED

B=BORE, T=TRENCH, O=OPEN CUT

* INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

MATCHLINE STA 357+50 SEE SHEET SS-13

MATCHLINE STA 364+50 SEE SHEET SS-15



SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,400 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,400 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	350 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,400 LF

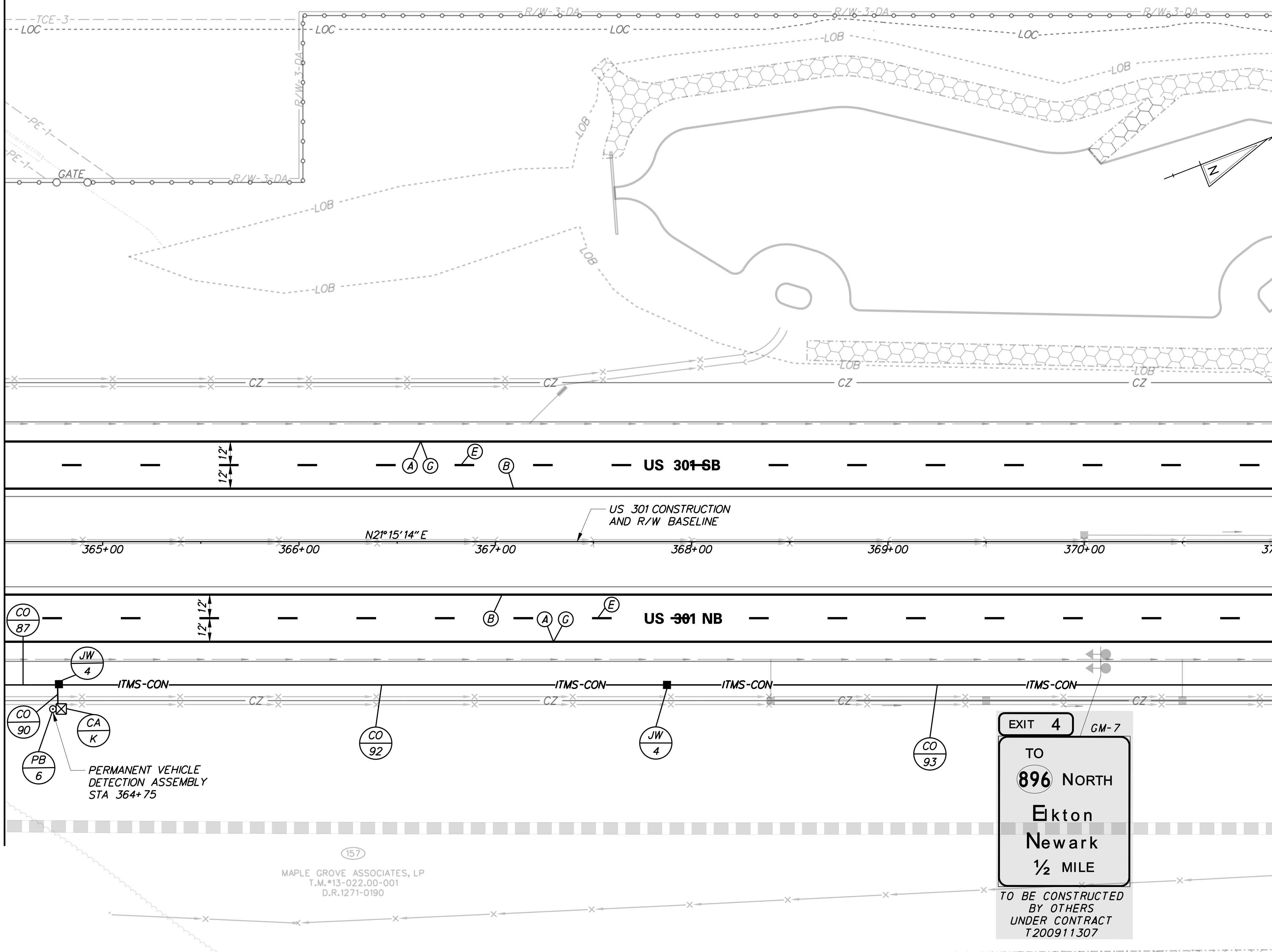
NOTE:
 REFER TO SHEET SS-01 FOR
 PROJECT SIGNING NOTES.

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	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	SIGNING, STRIPING & CONDUIT PLAN	SS-14
					T20091303		
				COUNTY	CHECKED BY: DRB SF	TOTAL SHTS. 1256	
				NEW CASTLE			

MATCHLINE STA 364+50 SEE SHEET SS-14

MATCHLINE STA 371+00 SEE SHEET SS-16

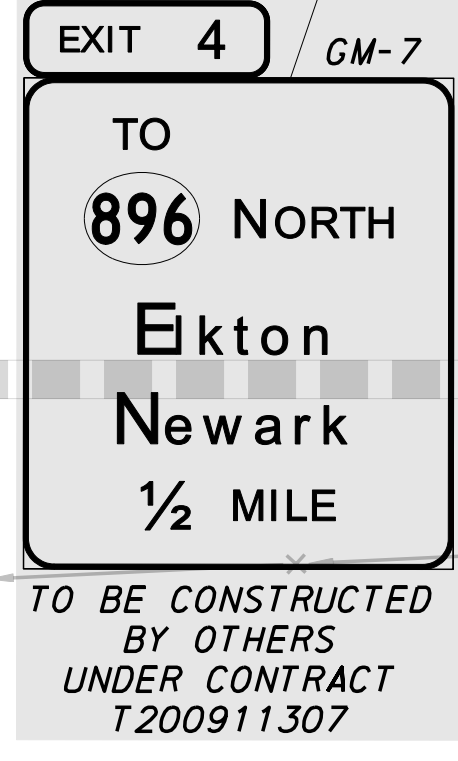


CONDUIT RUN SCHEDULE					
CR#	# OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
87*	*	*	*	*	*
89*					NOT USED
90	1	4" PVC	10'	T	
91					NOT USED
92	1	4" PVC	305'	T	
93	1	4" PVC	405'	T	

B=BORE, T=TRENCH, O=OPEN CUT
*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

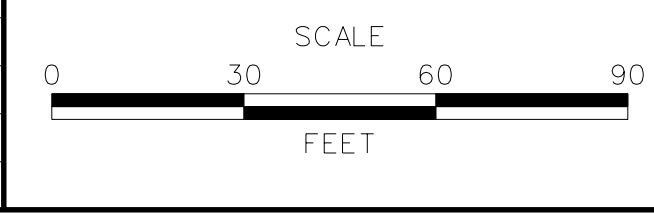
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,300 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,300 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	325 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,300 LF



NOTE:
REFER TO SHEET SS-01 FOR
PROJECT SIGNING NOTES.

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ADDENDUMS / REVISIONS



CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

SS-15
SHEET NO.
1049
TOTAL SHTS.
1256

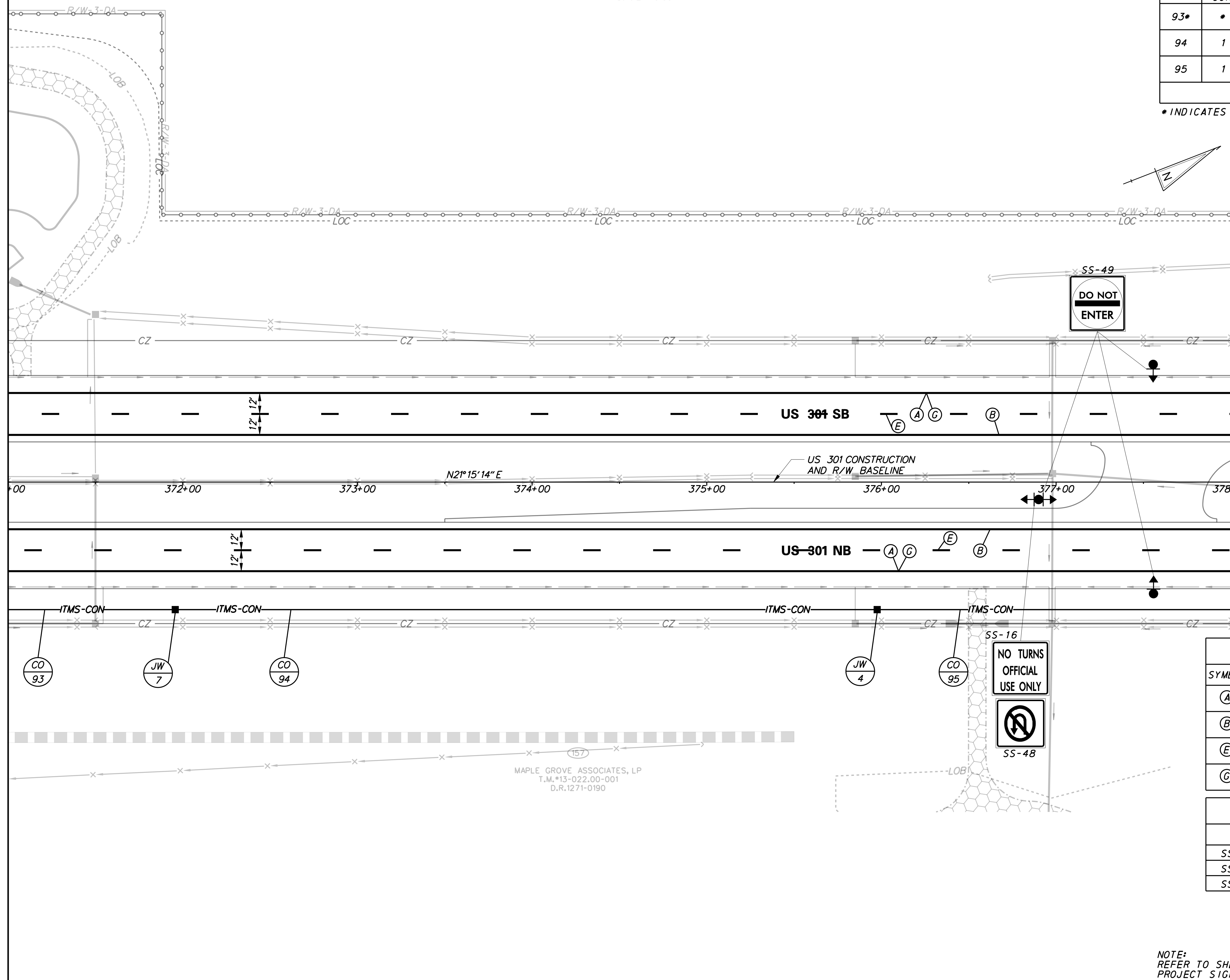
CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
93*	*	*	*	*	*
94	1	4" PVC	400'	T	
95	1	4" PVC	385'	T	

B=BORE, T=TRENCH, O=OPEN CUT

* INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

MATCHLINE STA 371+00 SEE SHEET SS-15

MATCHLINE STA 378+00 SEE SHEET SS-17



SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

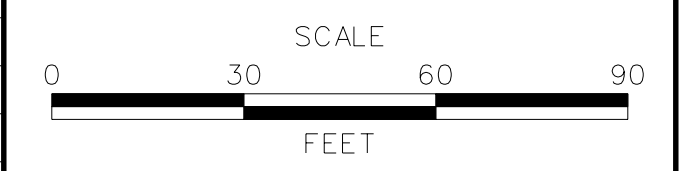
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,400 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,400 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	350 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,400 LF

STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-49	③	R5-1	48" x 48"	3
SS-16	③	R3-3-DE	24" x 24"	1
SS-48	③	R3-4	36" x 36"	1

NOTE:
 REFER TO SHEET SS-01 FOR
 PROJECT SIGNING NOTES.

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ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

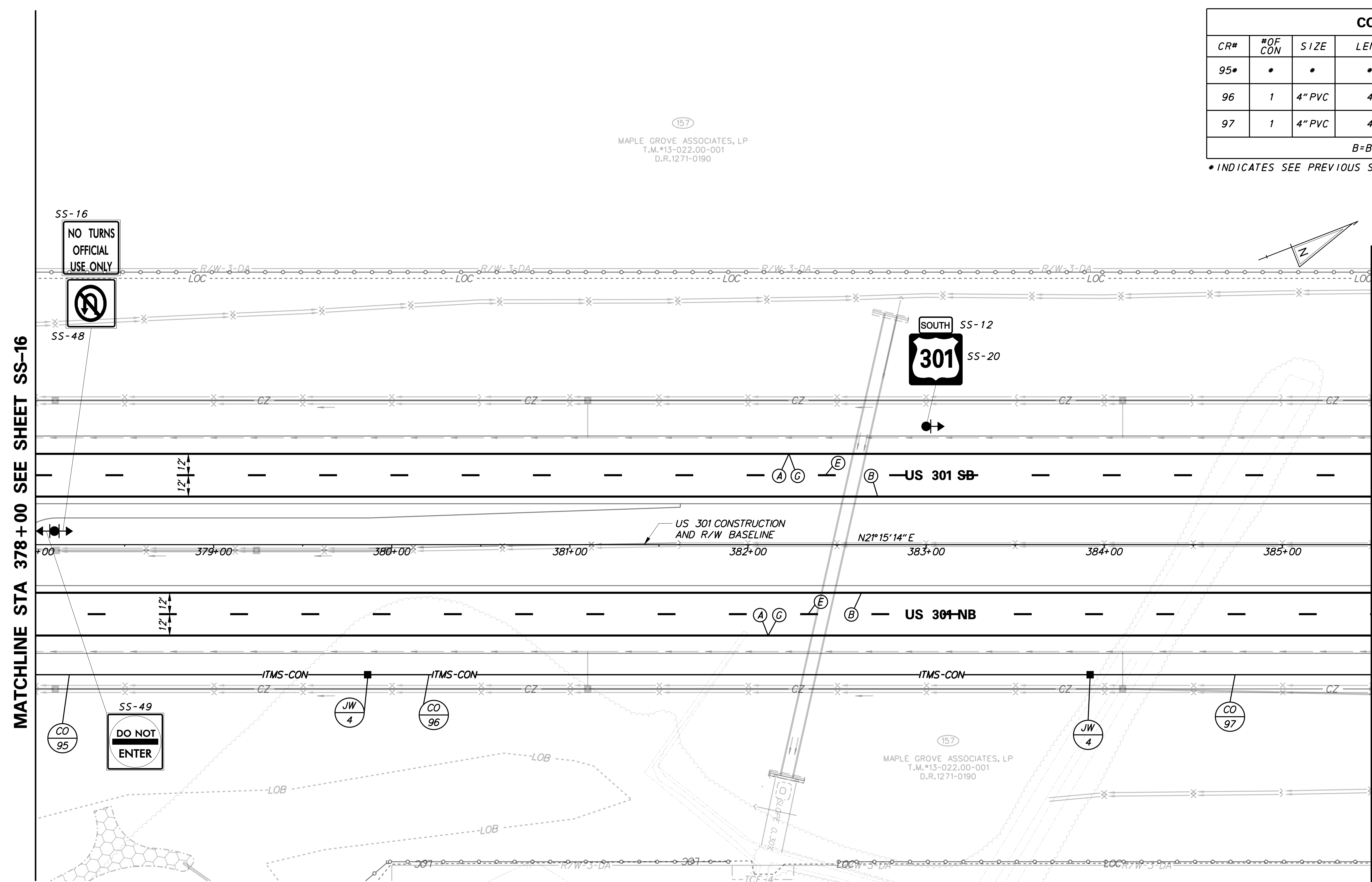
SIGNING, STRIPING & CONDUIT PLAN

SS-16
SHEET NO.
1050
TOTAL SHTS.
1256

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
95*	*	*	*	*	*
96	1	4" PVC	405'	T	
97	1	4" PVC	410'	T	

B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS



SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,500 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,500 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	375 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,500 LF

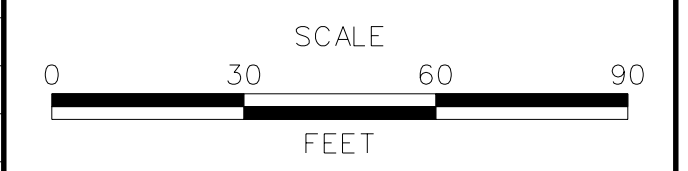
STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-49	③	R5-1	48" x 48"	1
SS-12	③	M3-3	30" x 15"	1
SS-16	③	R3-3-DE	24" x 24"	1
SS-20	③	M1-4	60" x 48"	1
SS-48	③	R3-4	36" x 36"	1

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.

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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T20091303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JE JW
	CHECKED BY: DRB SF

SIGNING, STRIPING & CONDUIT PLAN	SS-17
	SHEET NO. 1051
	TOTAL SHTS. 1256

MATCHLINE SEE SHEET SS-19

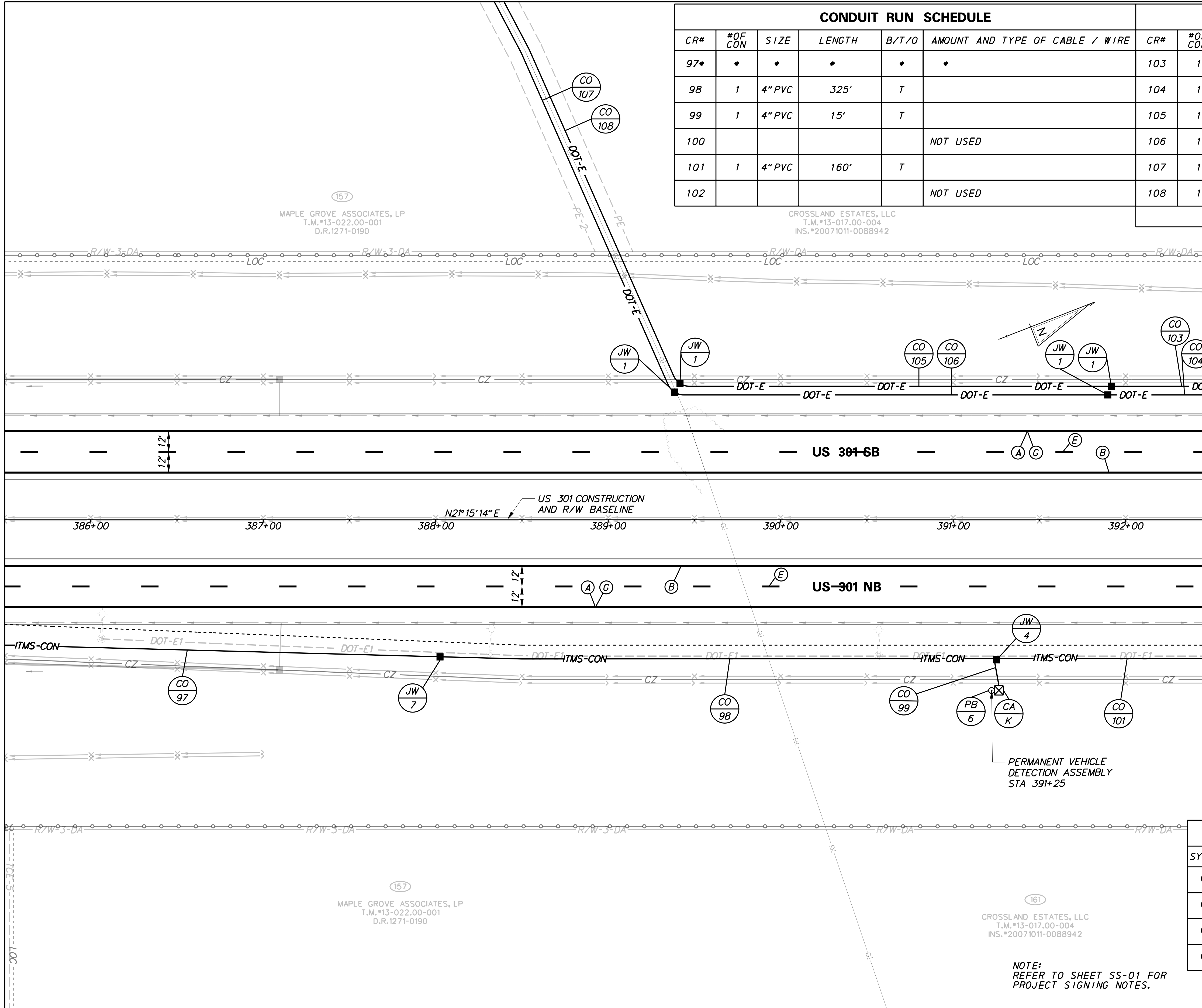
CONDUIT RUN SCHEDULE						CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE	CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
97*	*	*	*	*	*	103	1	3"GRS	260'	T	4-1/C #350KCMIL 1-1/C 2/O AWG GROUND
98	1	4" PVC	325'	T		104	1	2"GRS	260'	T	3-1/C 1/O AWG
99	1	4" PVC	15'	T		105	1	3"GRS	240'	T	4-1/C #350KCMIL 1-1/C 2/O AWG GROUND
100					NOT USED	106	1	2"GRS	240'	T	3-1/C 1/O AWG
101	1	4" PVC	160'	T		107	1	2"GRS	245'	T	3-1/C 1/O AWG
102					NOT USED	108	1	3"GRS	245'	T	4-1/C #350KCMIL 1-1/C 2/O AWG GROUND

B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

MATCHLINE STA 385+50 SEE SHEET SS-17

MATCHLINE STA 392+50 SEE SHEET SS-20



SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,400 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,400 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	350 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,400 LF

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.

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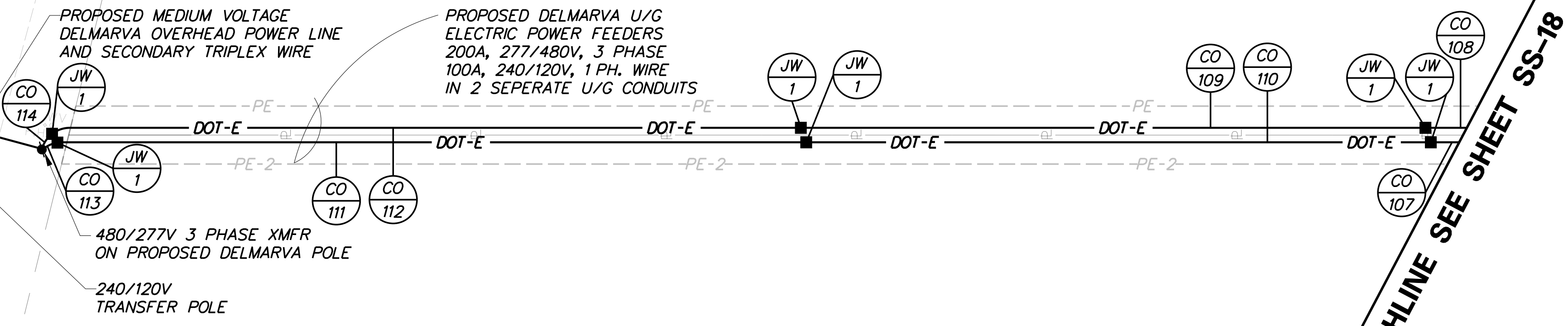
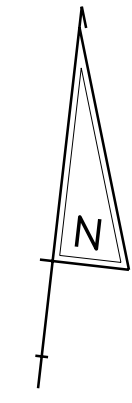
	ADDENDUMS / REVISIONS	<p>SCALE</p> <p>FEET</p>	<p>US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD</p>	CONTRACT	BRIDGE NO.	<p>SIGNING, STRIPING & CONDUIT PLAN</p>	SS-18
					T200911303		
				COUNTY	CHECKED BY: DRB SF		1052
				NEW CASTLE			TOTAL SHTS.
							1256

387
CHOPTANK, LLC
T.M.*13-016.00-009
D.R.2766-301

DELMARVA POLE
#43172/33269

161
CROSSLAND ESTATES, LLC
T.M.*13-017.00-004
INS.*20071011-0088942

157
MAPLE GROVE ASSOCIATES, LP
T.M.*13-022.00-001
D.R.1271-0190



CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
107*	*	*	*	*	*
108*	*	*	*	*	*
109	1	3"GRS	210'	T	4-1/C #350KCMIL 1-1/C 2/O AWG GROUND
110	1	2"GRS	210'	T	3-1/C 1/O AWG
111	1	2"GRS	250'	T	3-1/C 1/O AWG
112	1	3"GRS	250'	T	4-1/C #350KCMIL 1-1/C 2/O AWG GROUND
113	1	2"GRS	10'	T	3-1/C 1/O AWG
114	1	3"GRS	10'	T	4-1/C #350KCMIL 1-1/C 2/O AWG GROUND

B=BORE, T=TRENCH, O=OPEN CUT

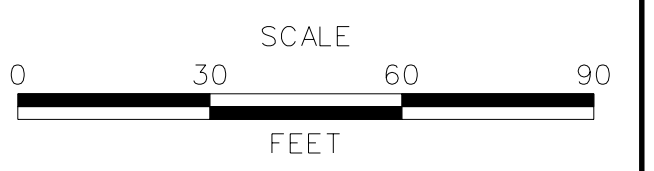
*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

NOTE:
REFER TO SHEET SS-01 FOR
PROJECT SIGNING NOTES.

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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

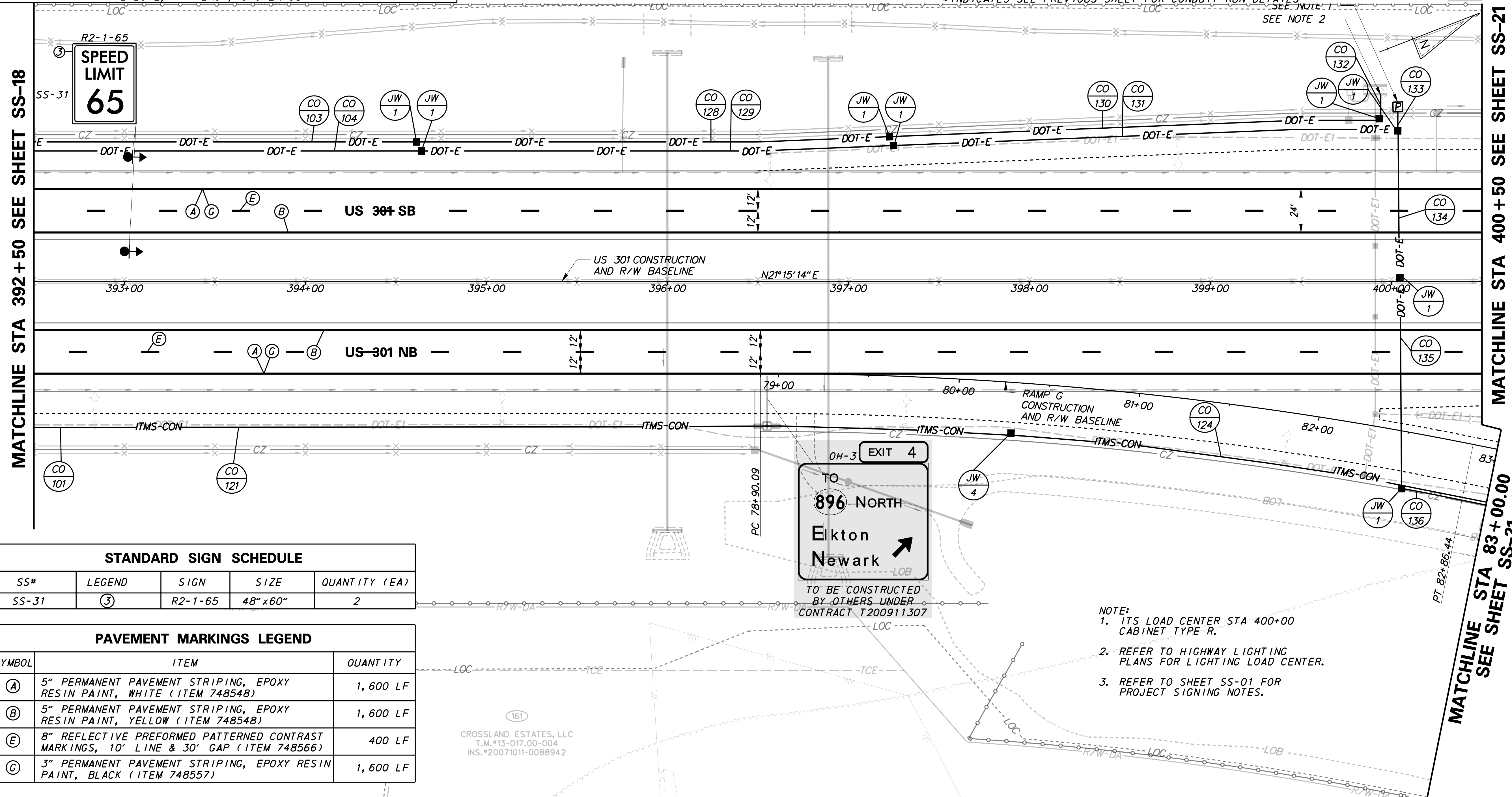
**SIGNING, STRIPING &
CONDUIT PLAN**

SS-19
SHEET NO.
1053
TOTAL SHTS.
1256

CONDUIT RUN SCHEDULE						CONDUIT RUN SCHEDULE						CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE	CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE	CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
101*	*	*	*	*	*	119					NOT USED	129	1	2"GRS	250'	T	3-1/C 1/0 AWG
102*					NOT USED	120					NOT USED	130	1	3"GRS	270'	T	4-1/C #350KCMIL 1-1/C 2/0 AWG GROUND
103*	*	*	*	*	*	121	1	4"PVC	510'	T		131	1	2"GRS	270'	T	3-1/C 1/0 AWG
104*					NOT USED	122					NOT USED	132	1	3"GRS	15'	T	4-1/C #350KCMIL 1-1/C 2/0 AWG GROUND
115					NOT USED	123					NOT USED	133	1	3"GRS	10'	T	3-1/C 1/0 AWG, 3-1/C #2 AWG
116					NOT USED	124	1	4"PVC	395'	T		134	1	3"GRS	80'	T	3-1/C #2 AWG
117					NOT USED	125					NOT USED	135	1	3"GRS	115'	T	3-1/C #2 AWG
118					NOT USED	128	1	3"GRS	250'	T	4-1/C #350KCMIL 1-1/C 2/0 AWG GROUND	136	1	2"GRS	75'	T	3-1/C #2 AWG

B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS



STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-31	③	R2-1-65	48" x 60"	2

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,600 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,600 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	400 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,600 LF

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

- NOTE:
- ITS LOAD CENTER STA 400+00 CABINET TYPE R.
 - REFER TO HIGHWAY LIGHTING PLANS FOR LIGHTING LOAD CENTER.
 - REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.

CROSSLAND ESTATES, LLC
T.M.#13-017.00-004
INS.#20071011-0088942

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	ADDENDUMS / REVISIONS		US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD		CONTRACT T20091303	BRIDGE NO.	SIGNING, STRIPING & CONDUIT PLAN	SS-20
			COUNTY NEW CASTLE	DESIGNED BY: JE JW	SHEET NO. 1054			
							CHECKED BY: DRB SF	TOTAL SHTS. 1256

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
124*	*	*	*	*	*
136*	*	*	*	*	*
137	1	4" PVC	45'	T	
138	1	2" GRS	45'	T	3-1/C #2 AWG
139	1	4" PVC	230'	T	
140	1	2" GRS	230'	T	3-1/C #2 AWG
141					NOT USED
142					NOT USED
143					NOT USED
144					NOT USED
145	1	4" PVC	350'	T	
146	1	2" GRS	350'	T	3-1/C #2 AWG

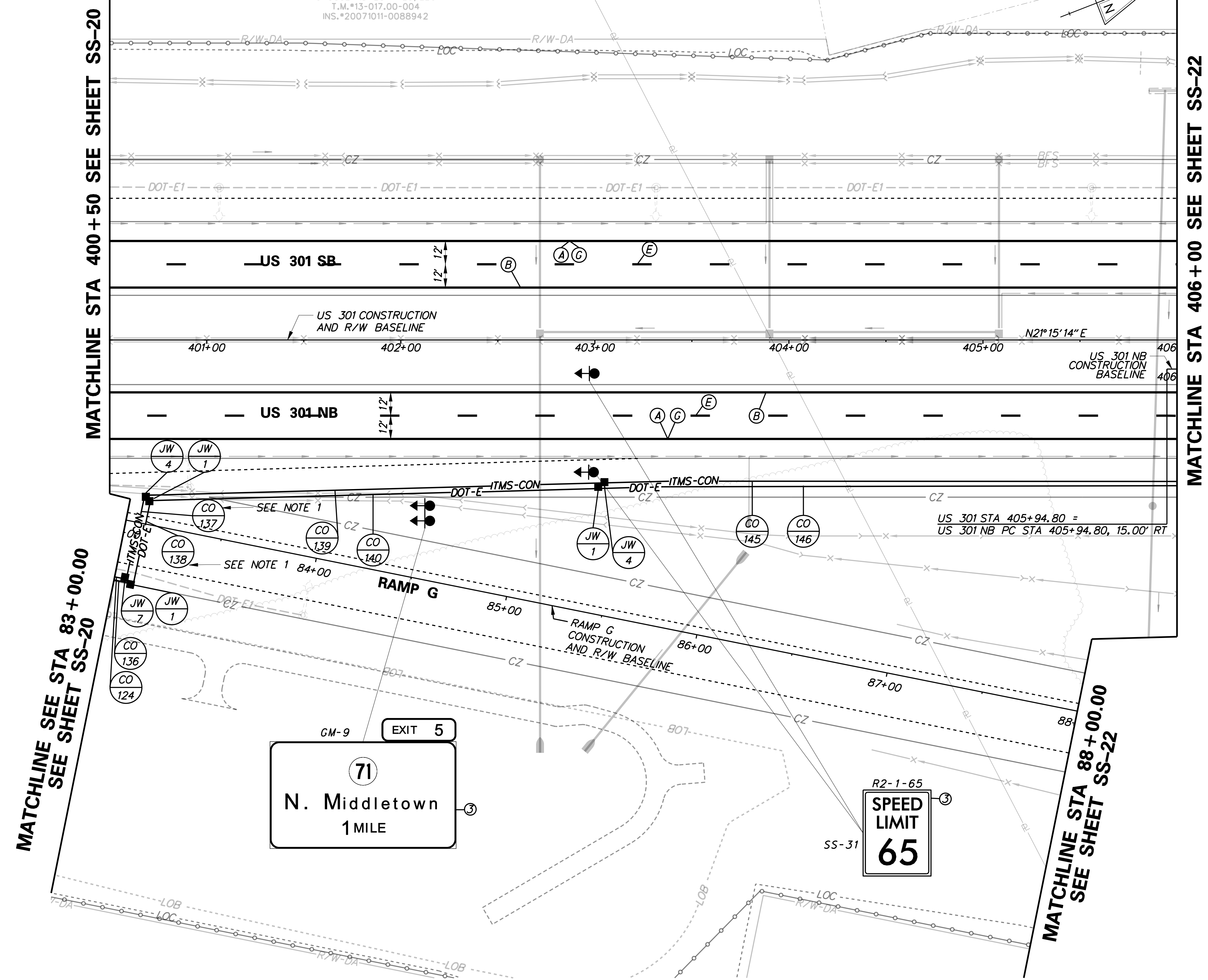
B=BORE, T=TRENCH, O=OPEN CUT
 *INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-31	(3)	R2-1-65	48" x 60"	2

SIGNING LEGEND	
(1)	REMOVE EXISTING SIGN
(2)	EXISTING SIGN TO REMAIN
(3)	PLACE NEW SIGN
(4)	RENEW EXISTING SIGN
(5)	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,100 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,100 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	275 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,100 LF

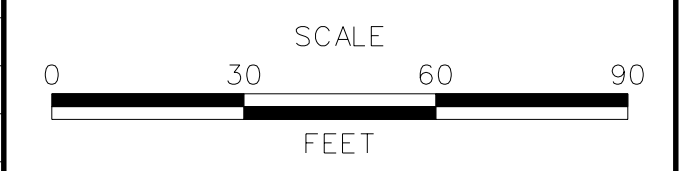
NOTE:
 MINIMUM DEPTH REQUIREMENT FOR CONDUITS CROSSING FUTURE RAMP C IS 36 INCHES.
 REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.
 FOR CO-137 & CO-138, DENOTE REQUIRED DEPTH BELOW PAVEMENT FOR FUTURE CONSTRUCTION OF RAMP G



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ADDENDUMS / REVISIONS



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

SIGNING, STRIPING & CONDUIT PLAN	SS-21
	SHEET NO. 1055
	TOTAL SHTS. 1256

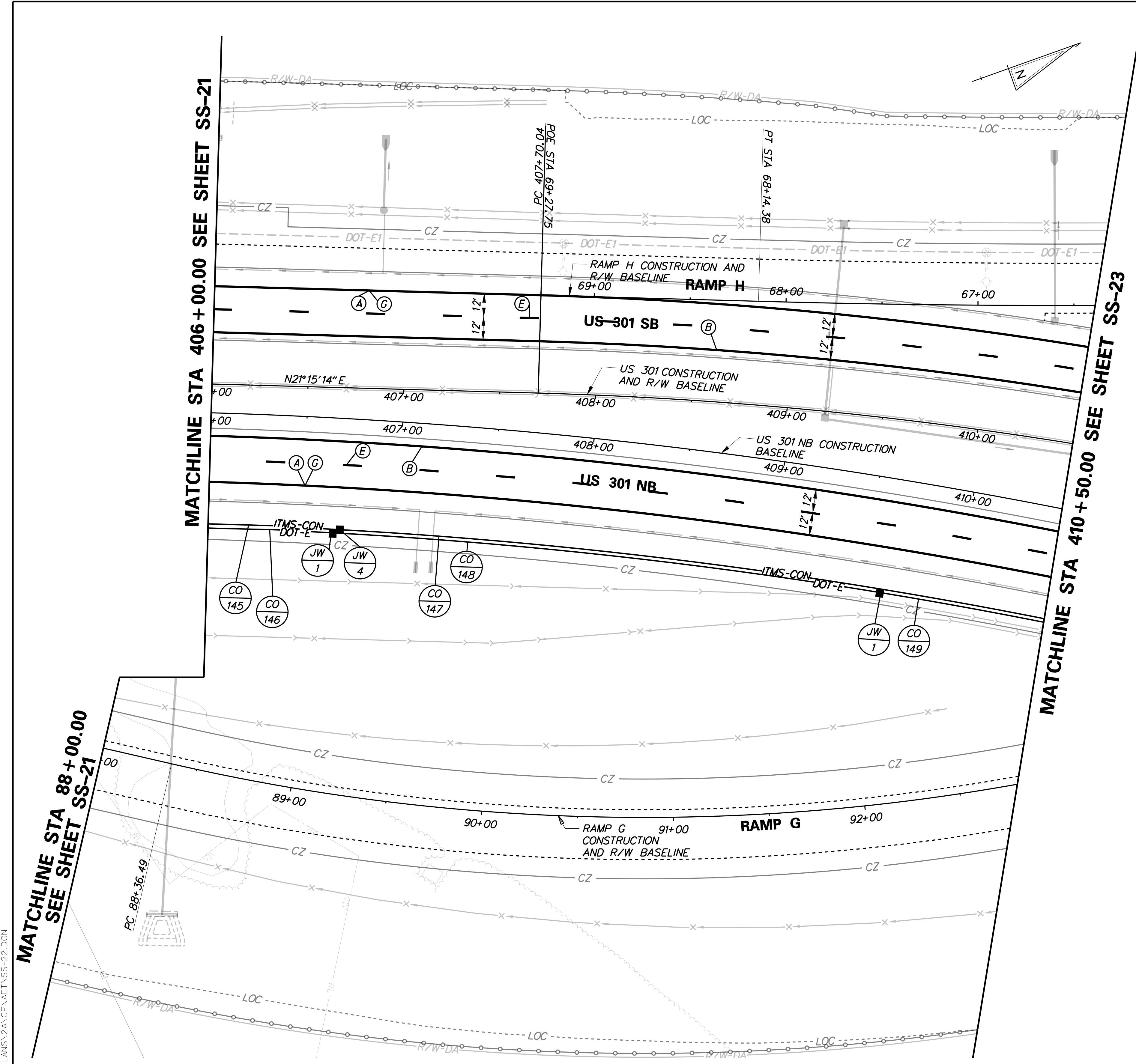
CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
145*	*	*	*	*	*
146*	*	*	*	*	*
147	1	4" PVC	660'	T	
148	1	2" GRS	290'	T	3-1/C #2 AWG
149	1	2" GRS	370'	T	3-1/C #2 AWG

B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

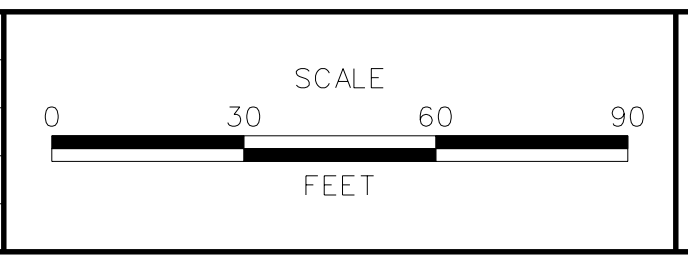
SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	899 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	899 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	225 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	899 LF



NOTE:
REFER TO SHEET SS-01 FOR
PROJECT SIGNING NOTES.

ADDENDUMS / REVISIONS



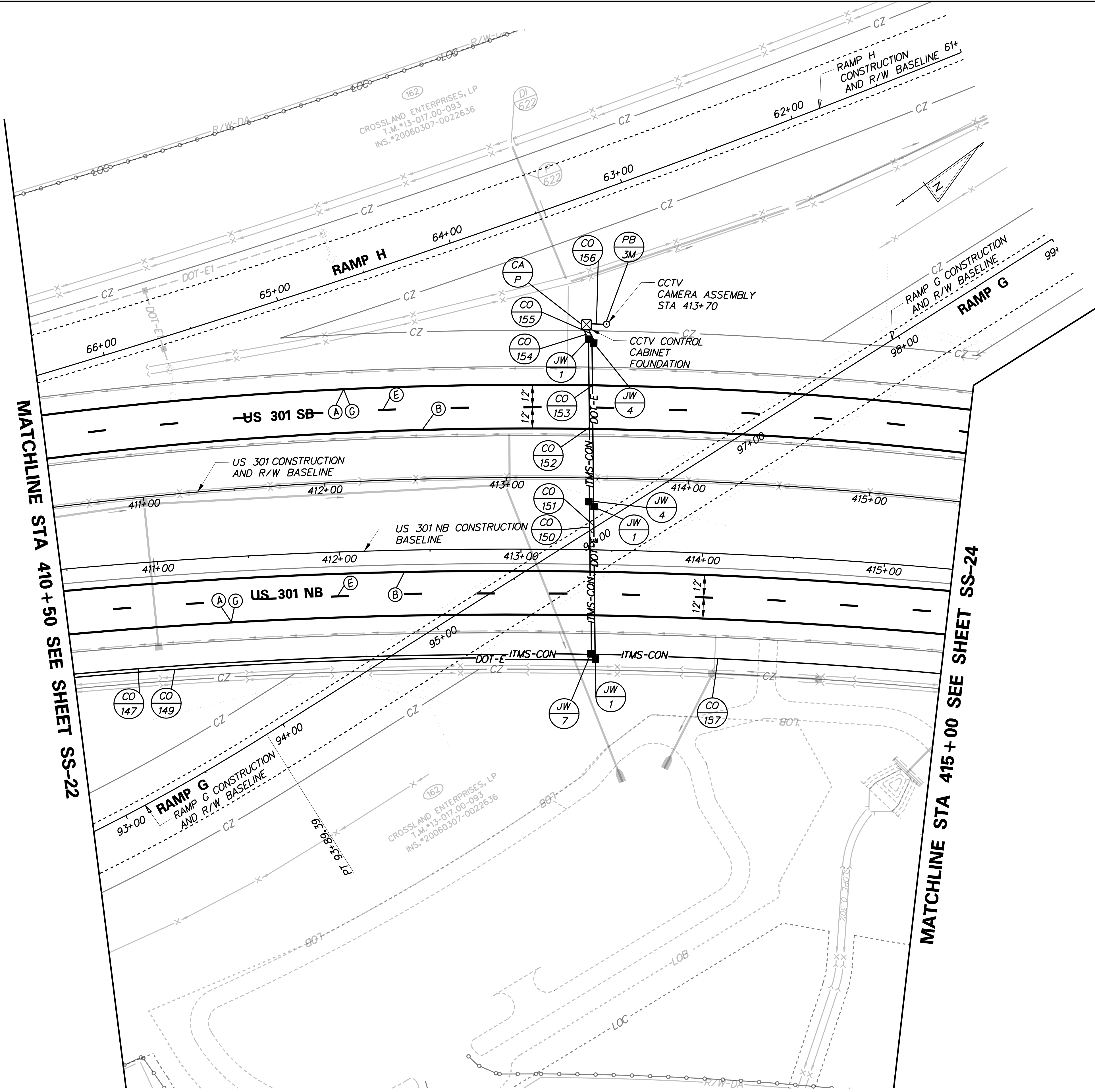
US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

SIGNING, STRIPING & CONDUIT PLAN

SS-22
SHEET NO.
1056
TOTAL SHTS.
1256

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CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
147*	*	*	*	*	*
149*	*	*	*	*	*
150	1	4" PVC	85'	T	
151	1	2" GRS	85'	T	3-1/C #2 AWG
152	1	4" PVC	90'	T	
153	1	2" GRS	90'	T	3-1/C #2 AWG
154	1	2" GRS	10'	T	
155	1	2" GRS	10'	T	3-1/C #2 AWG
156	1	4" PVC	10'	T	
157	1	4" PVC	570'	T	
158					NOT USED

B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

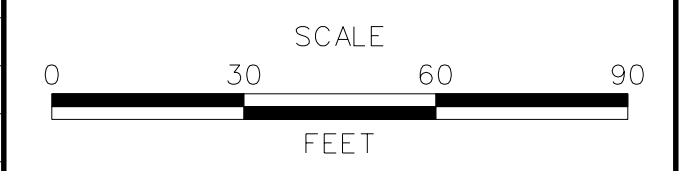
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	994 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	994 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	249 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	994 LF

NOTES:
 1. REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.
 2. REFER TO SHEET SS-78 FOR CCTV PB-3M POLE BASE DETAILS.

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ADDENDUMS / REVISIONS

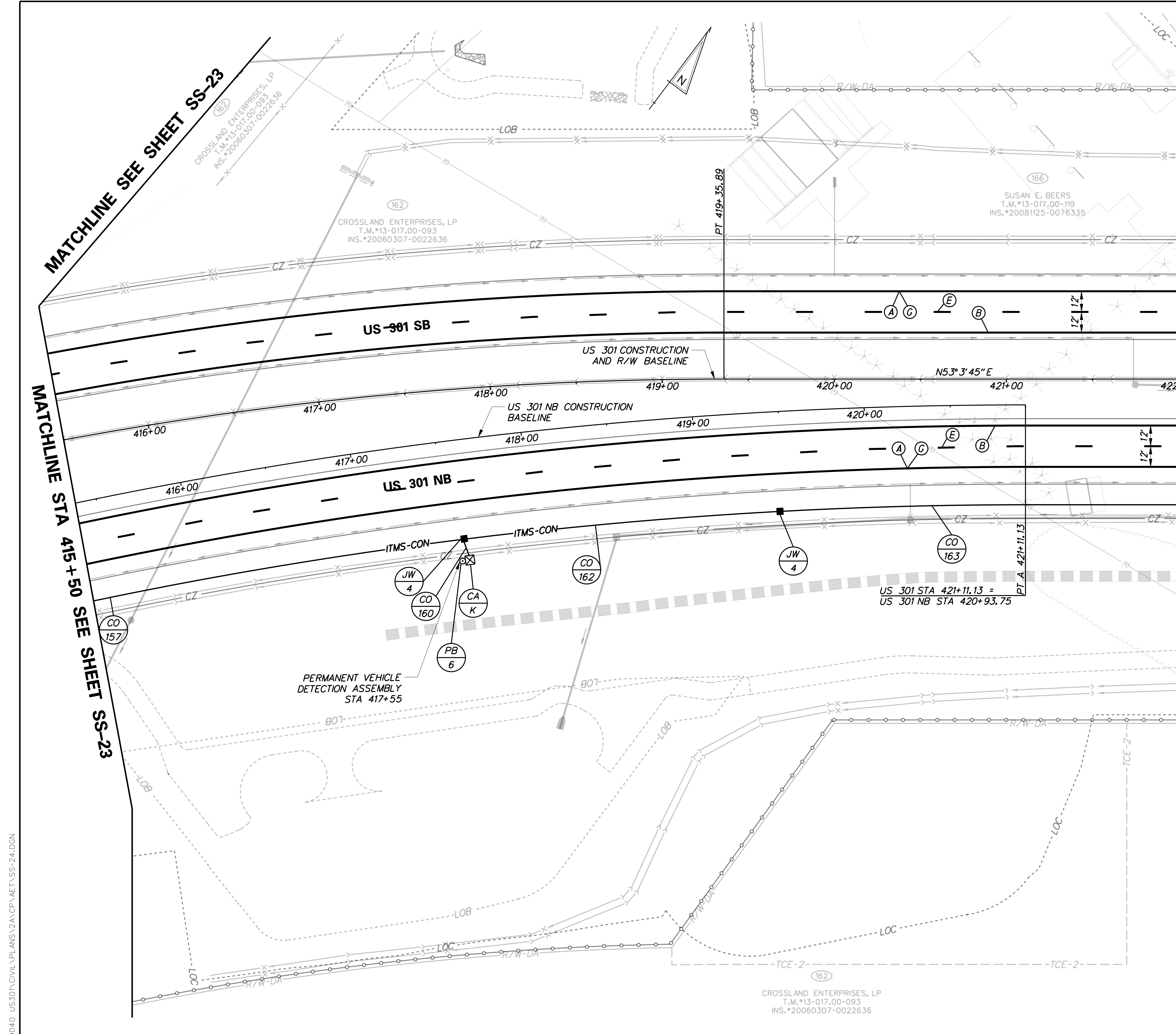


US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

SIGNING, STRIPING & CONDUIT PLAN

SS-23
SHEET NO.
1057
TOTAL SHTS.
1256



CONDUIT RUN SCHEDULE					
CR#	# OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
157*	*	*	*	*	*
158*					NOT USED
159					NOT USED
160	1	4" PVC	10'	T	
161					NOT USED
162	1	4" PVC	180'	T	
163	1	4" PVC	400'	T	

B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

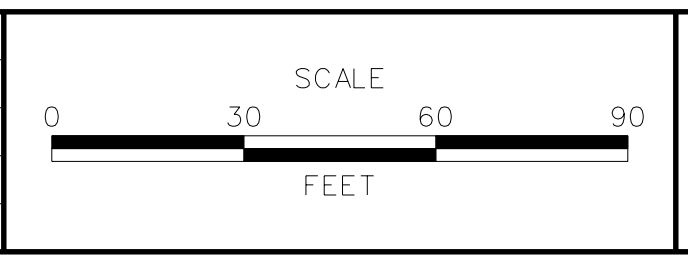
SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1, 297 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1, 297 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	324 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1, 297 LF

NOTE:
REFER TO SHEET SS-01 FOR
PROJECT SIGNING NOTES.

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ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

SIGNING, STRIPING & CONDUIT PLAN	SS-24
	SHEET NO. 1058
	TOTAL SHTS. 1256

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
163*	*	*	*	*	*
164	1	4" PVC	400'	T	
165	1	4" PVC	400'	T	

B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

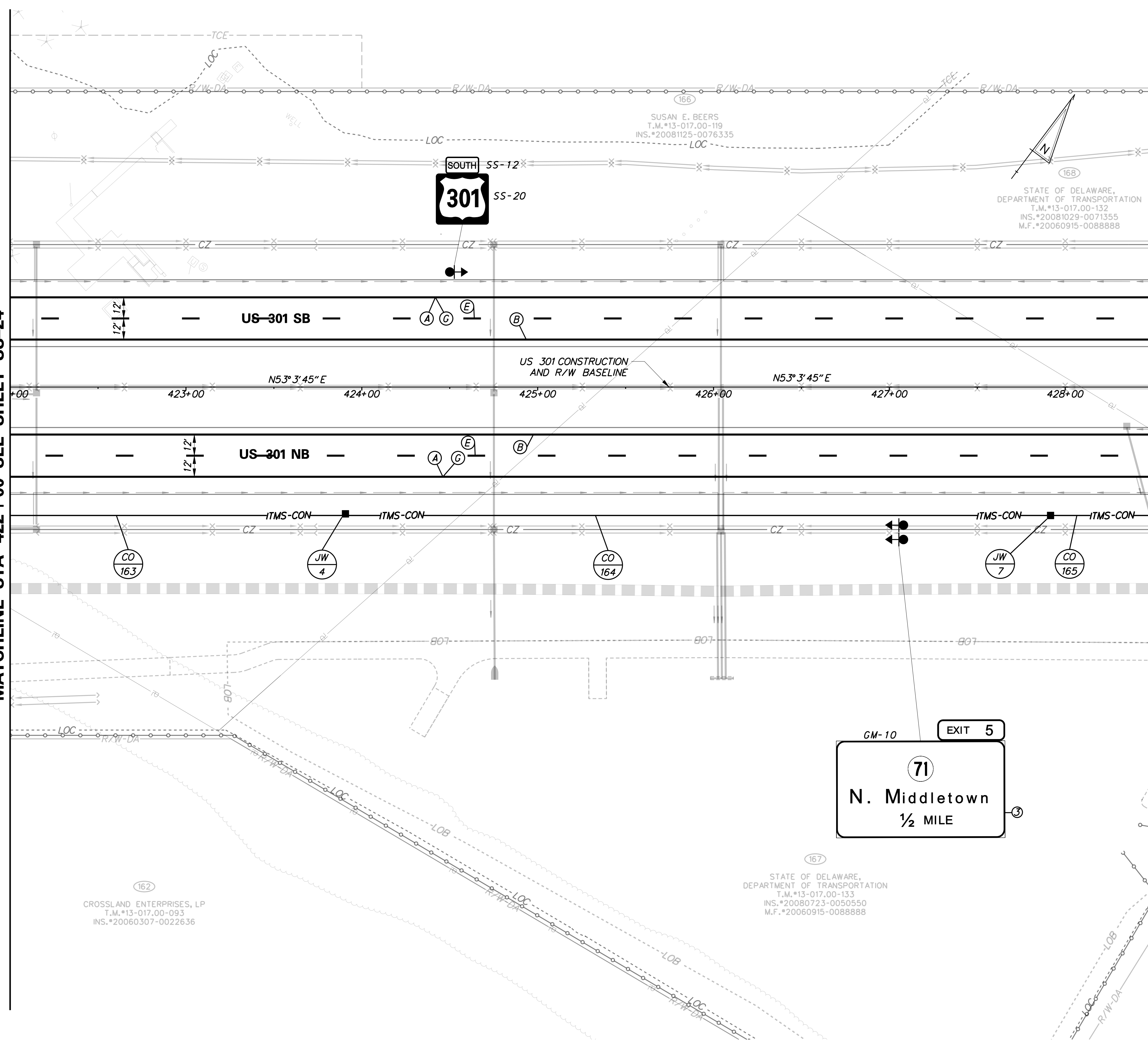
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,300 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,300 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	325 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,300 LF

STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-12	③	M3-3	30" x 15"	1
SS-20	③	M1-4	60" x 48"	1

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.

MATCHLINE STA 422+00 SEE SHEET SS-24

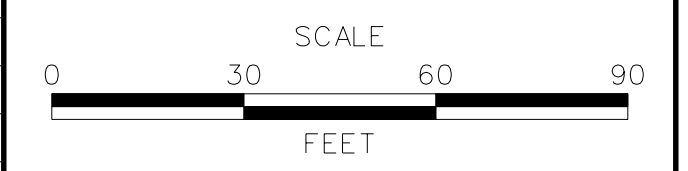
MATCHLINE STA 428+50 SEE SHEET SS-26



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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T20091303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

**SIGNING, STRIPING &
CONDUIT PLAN**

SS-25
SHEET NO.
1059
TOTAL SHTS.
1256

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
165*	*	*	*	*	*
166	1	4" PVC	320'	T	

B=BORE, T=TRENCH, O=OPEN CUT

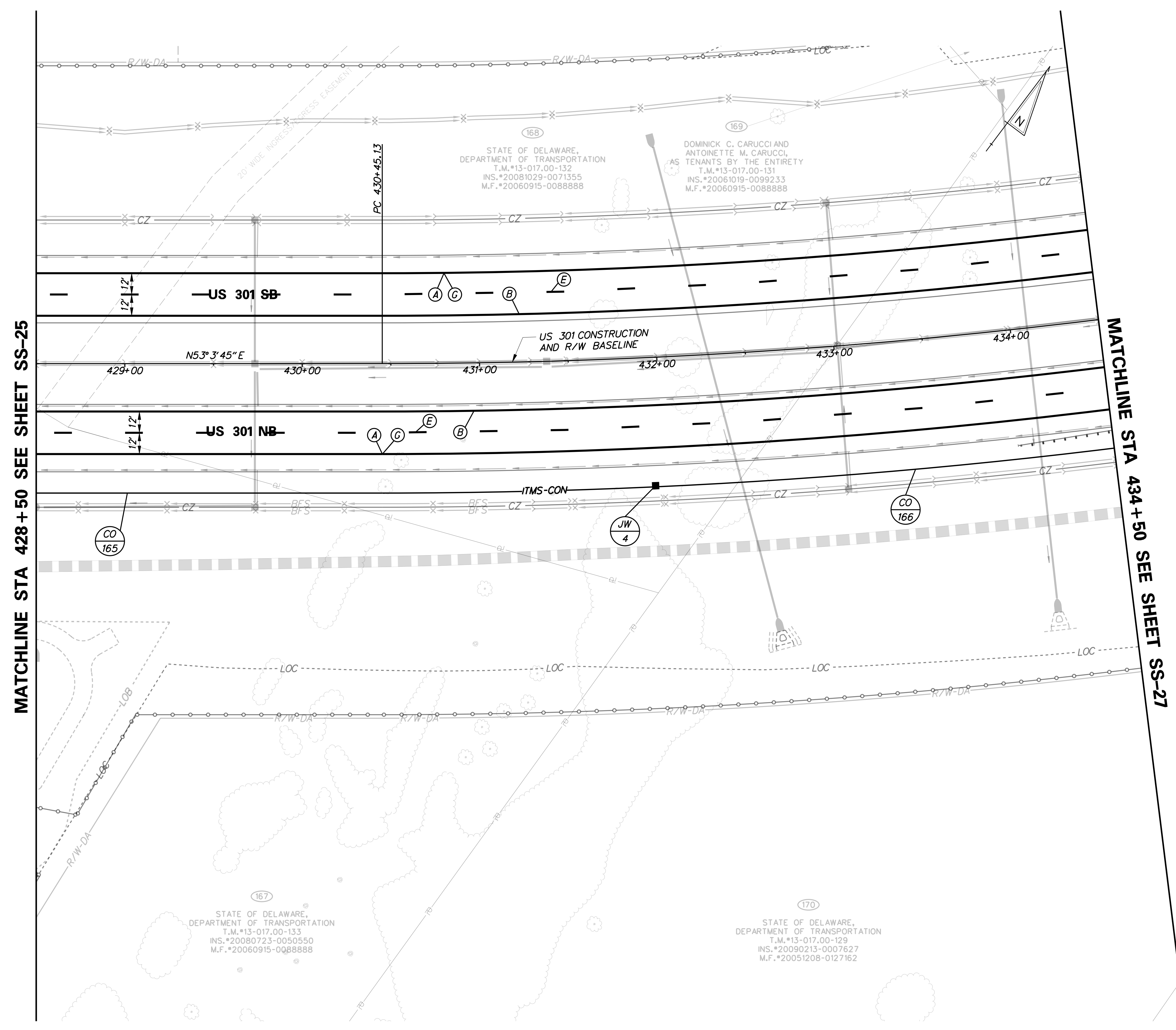
*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1, 200 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1, 200 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	300 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1, 200 LF

MATCHLINE STA 428+50 SEE SHEET SS-25

MATCHLINE STA 434+50 SEE SHEET SS-27

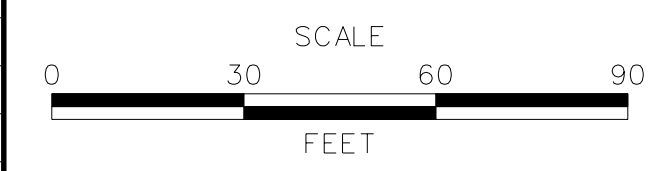


NOTE:
REFER TO SHEET SS-01 FOR
PROJECT SIGNING NOTES.

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ADDENDUMS / REVISIONS

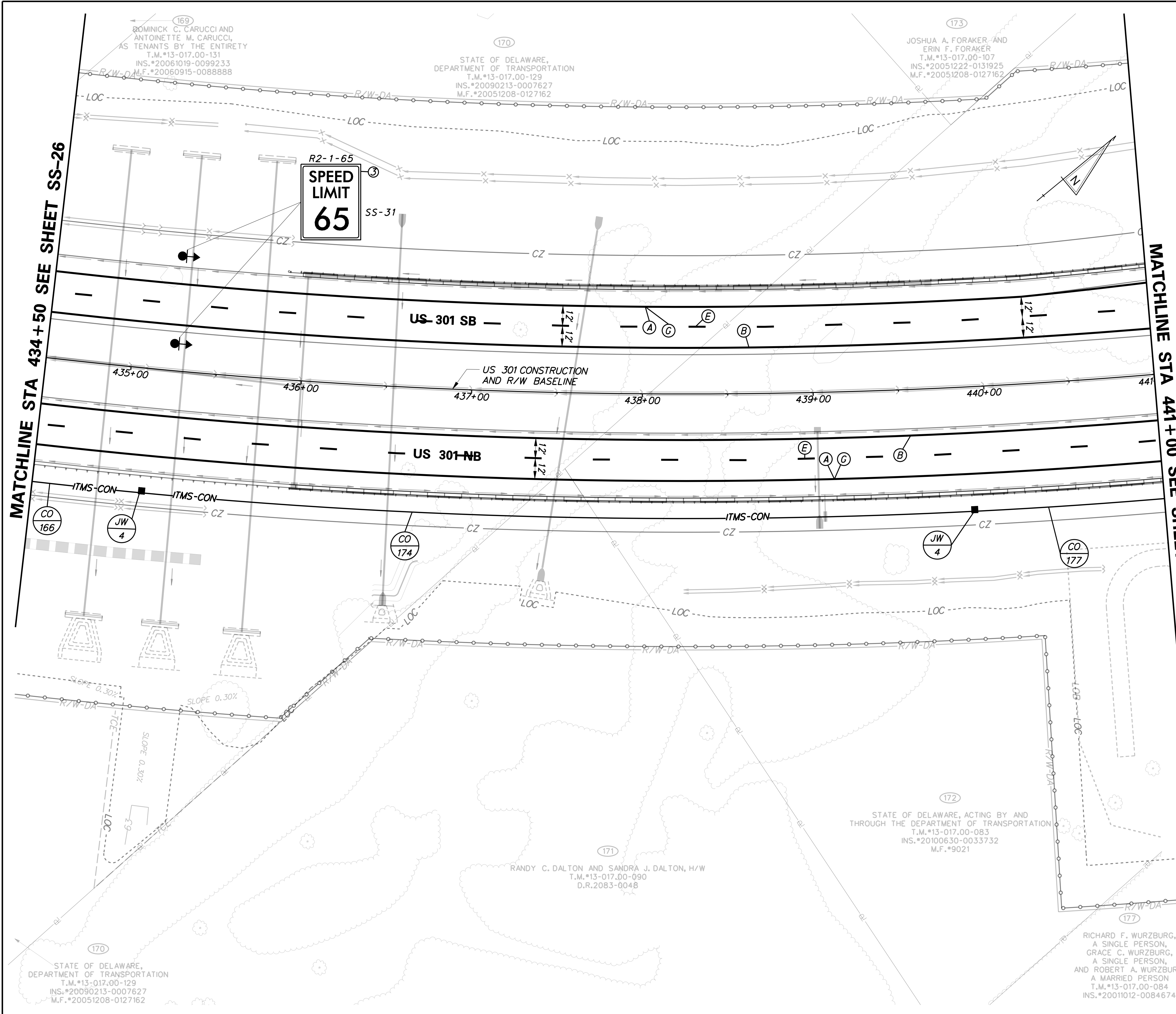


**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JE JW
COUNTY	CHECKED BY:	DRB SF
NEW CASTLE		

**SIGNING, STRIPING &
CONDUIT PLAN**

SS-26
SHEET NO.
1060
TOTAL SHTS.
1256



CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
166*	*	*	*	*	*
167					NOT USED
168					NOT USED
169					NOT USED
170					NOT USED
171					NOT USED
172					NOT USED
173					NOT USED
174	1	4" PVC	490'	T	
175					NOT USED
176					NOT USED
177	1	4" PVC	425'	T	
178					NOT USED

B=BORE, T=TRENCH, O=OPEN CUT

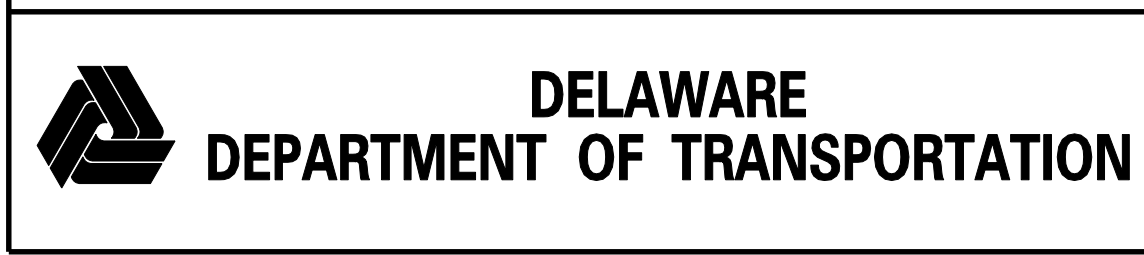
* INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-31	(3)	R2-1-65	48" x 60"	2

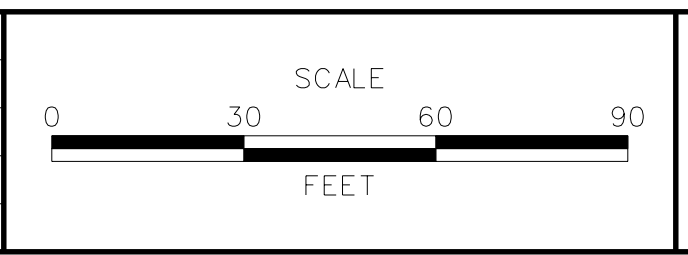
SIGNING LEGEND	
(1)	REMOVE EXISTING SIGN
(2)	EXISTING SIGN TO REMAIN
(3)	PLACE NEW SIGN
(4)	RENEW EXISTING SIGN
(5)	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,300 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,300 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	325 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,300 LF

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.



ADDENDUMS / REVISIONS

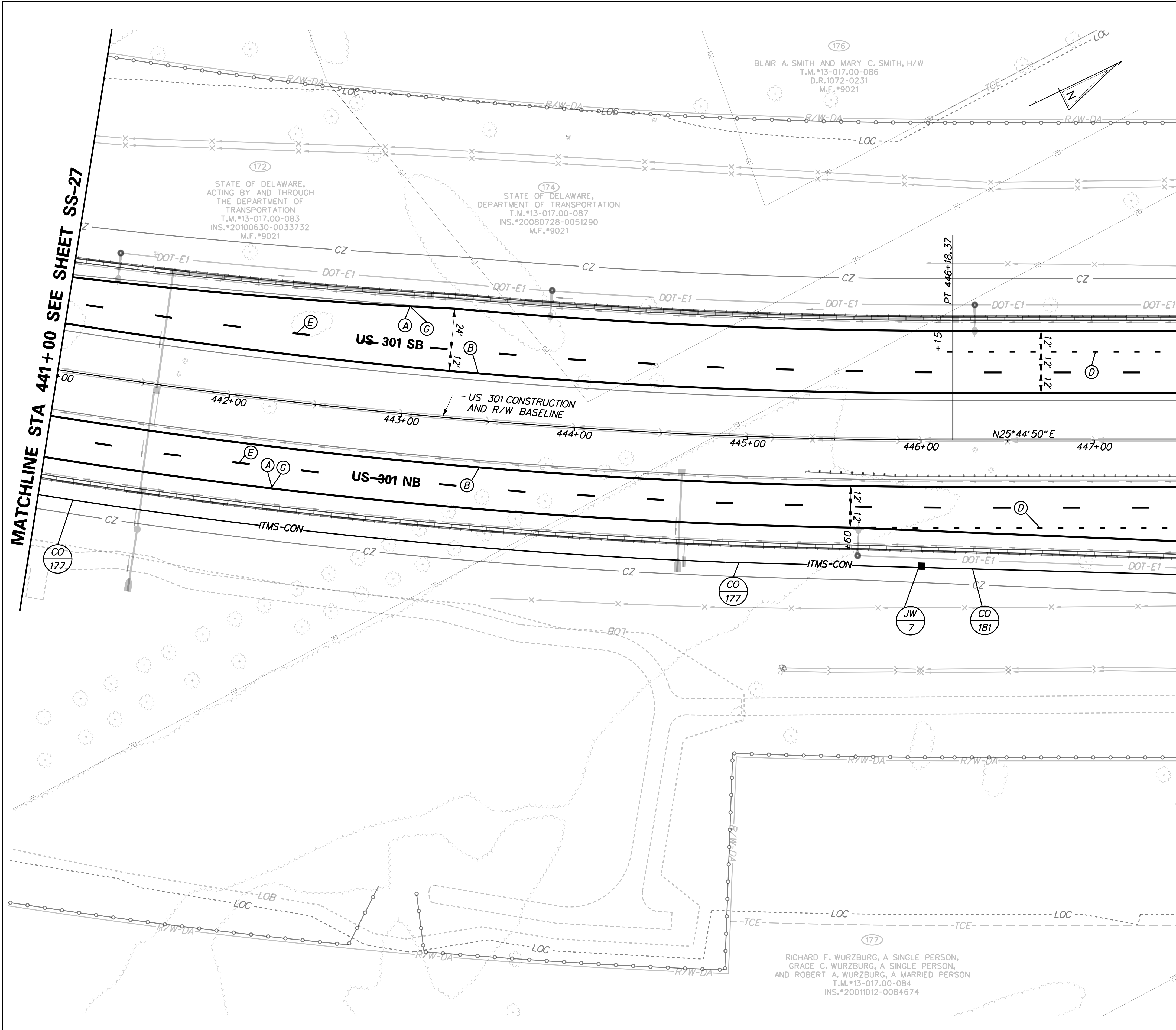


US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T20091303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

SIGNING, STRIPING & CONDUIT PLAN	SS-27
	SHEET NO. 1061
	TOTAL SHTS. 1256

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CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
177*	*	*	*	*	*
178*					NOT USED
179					NOT USED
180					NOT USED
181	1	4" PVC	305'	T	
182					NOT USED

B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

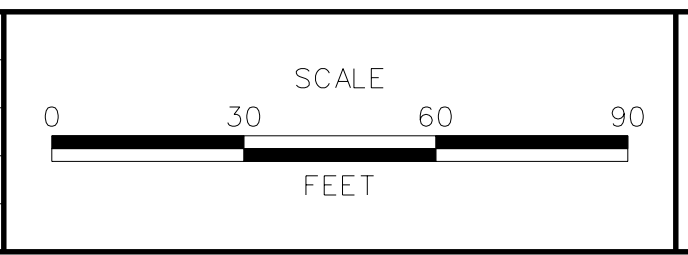
SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1, 299 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1, 300 LF
(D)	1.3" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	81 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	325 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1, 299 LF

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.

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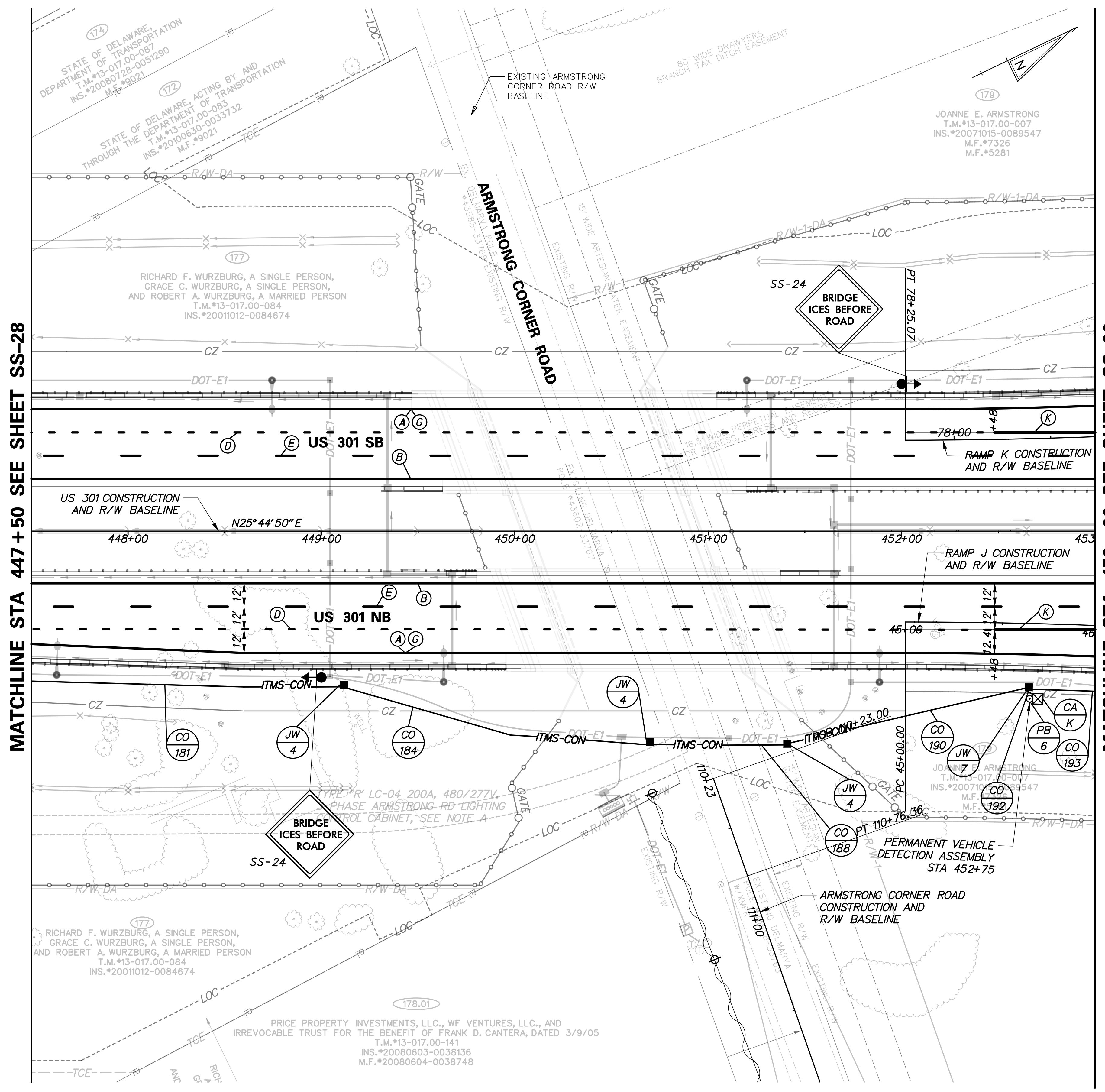
ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

SIGNING, STRIPING & CONDUIT PLAN	SS-28
	SHEET NO. 1062
	TOTAL SHTS. 1256



CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
181*	*	*	*	*	*
182*					NOT USED
183					NOT USED
184	1	4" PVC	155'	T	
185					NOT USED
186					NOT USED
187					NOT USED
188	1	4" HDPE	70'	B	
189					NOT USED
190	1	4" PVC	130'	T	
191					NOT USED
192	1	4" PVC	10'	T	
193	1	4" PVC	225'	T	

B=BORE, T=TRENCH, O=OPEN CUT
 *INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,100 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,100 LF
(D)	1.3" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	249 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	275 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,100 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	104 LF

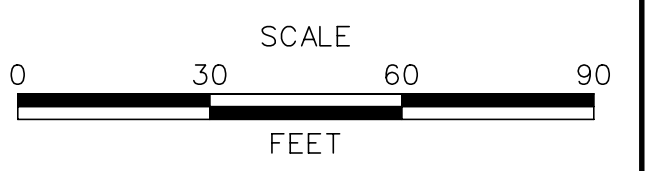
STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-24	③	WB-13	48" x 48"	2

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.

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ADDENDUMS / REVISIONS	



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	T20091303
COUNTY	NEW CASTLE
BRIDGE NO.	
DESIGNED BY:	JE JW
CHECKED BY:	DRB SF

SIGNING, STRIPING & CONDUIT PLAN

SS-29	SHEET NO.	1063
	TOTAL SHTS.	1256

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
193*	*	*	*	*	*
194	1	4" PVC	250'	T	
195	1	4" PVC	370'	T	

B=BORE, T=TRENCH, O=OPEN CUT

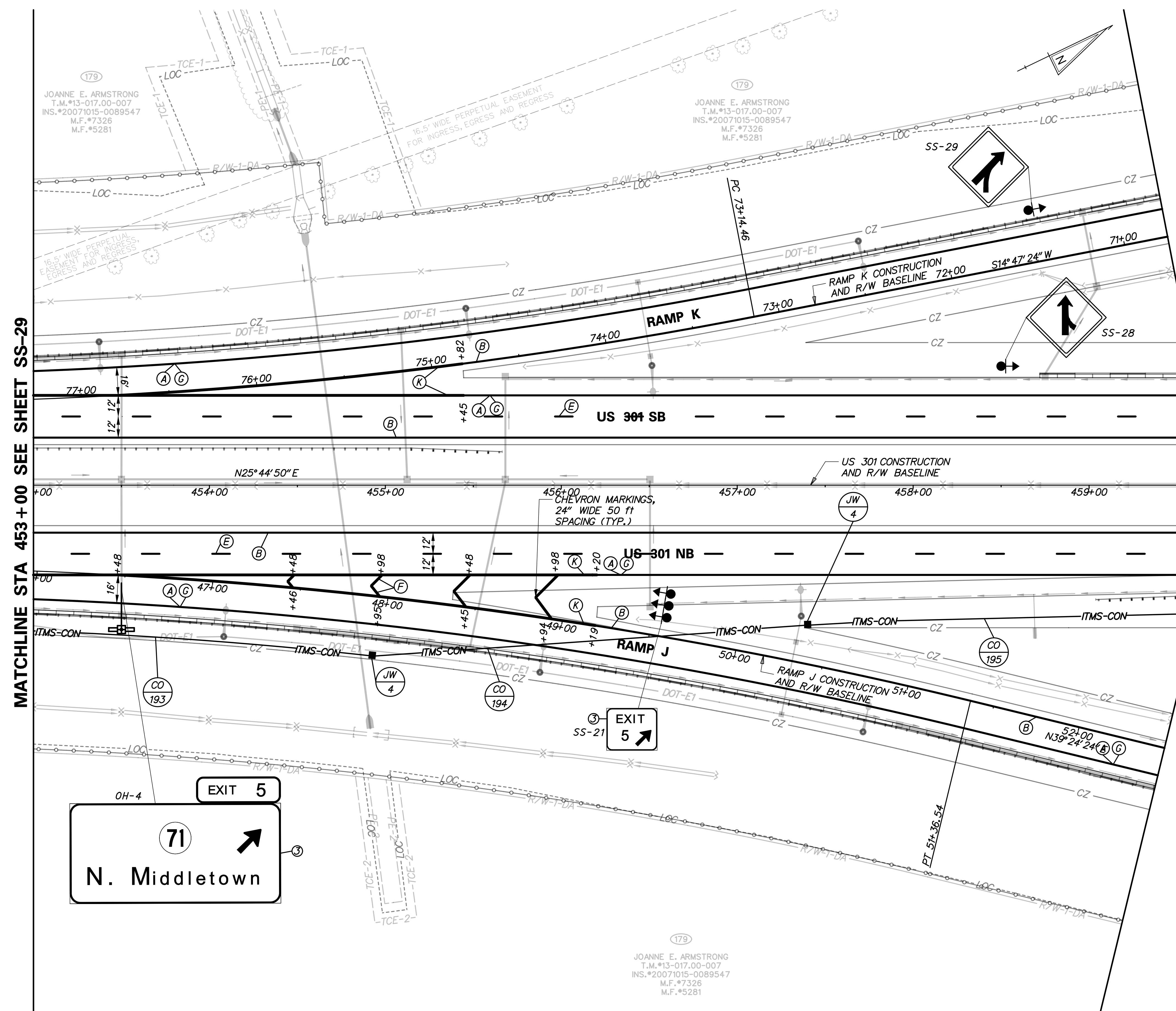
*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	2,032 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	2,038 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	325 LF
(F)	12' SOLID WHITE RETROFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	84 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	2,032 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	1,033 LF

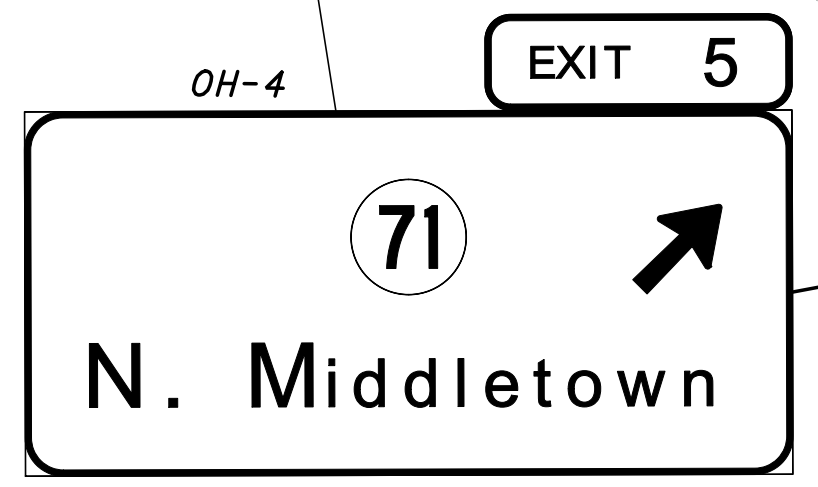
STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-21	③	E5-1A	72" x 60"	1
SS-28	③	W4-1R	48" x 48"	1
SS-29	③	W4-5	48" x 48"	1

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.



MATCHLINE STA 453+00 SEE SHEET SS-29

MATCHLINE STA 459+50 SEE SHEET SS-31



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	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT T20091303	BRIDGE NO.	SIGNING, STRIPING & CONDUIT PLAN	SS-30
					COUNTY NEW CASTLE		DESIGNED BY: JE JW

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
195*	*	*	*	*	*
196	1	4" PVC	300'	T	

B=BORE, T=TRENCH, O=OPEN CUT

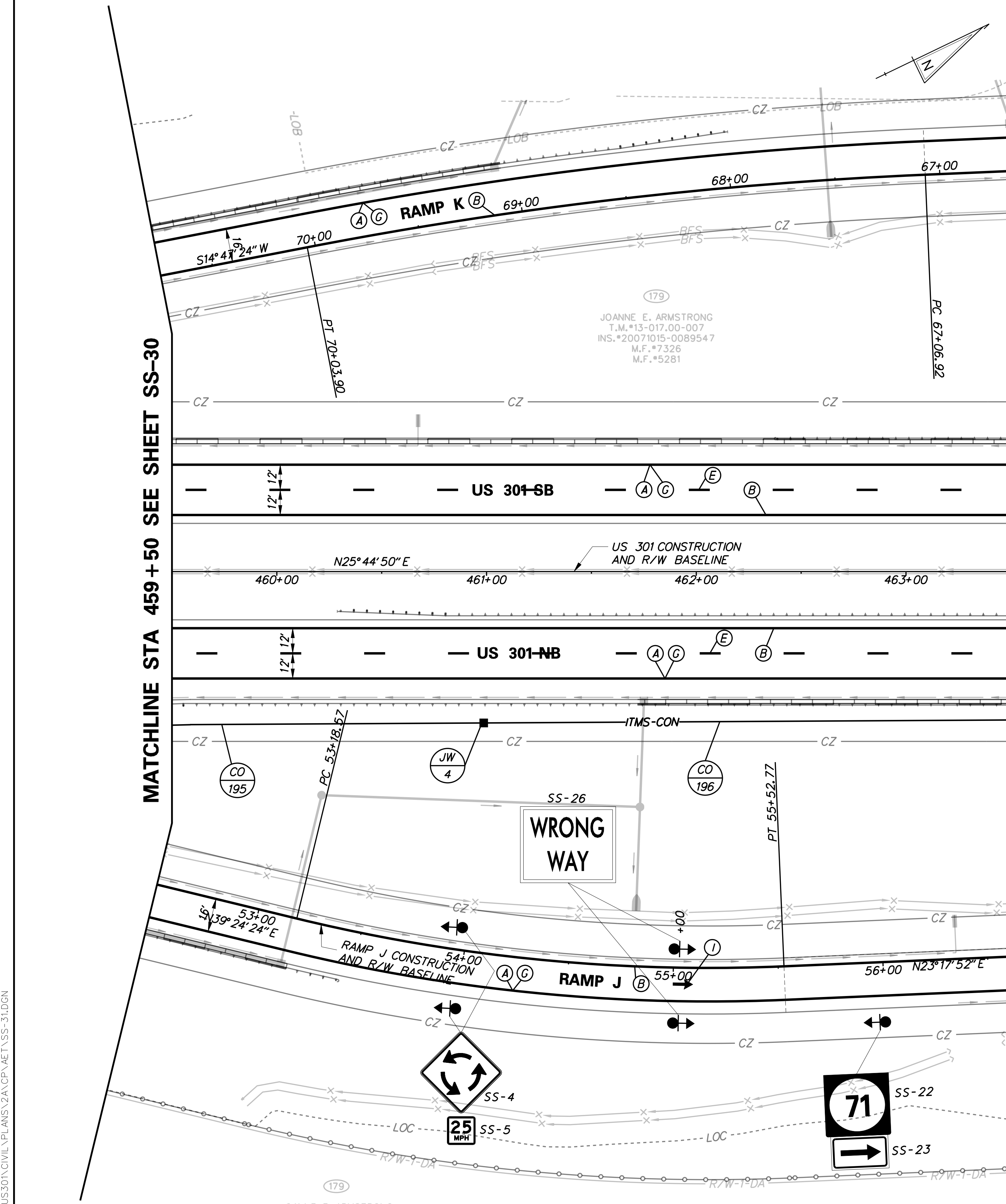
*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,627 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,620 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	200 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,627 LF
(I)	RETROREFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	16 SF

STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-4	③	W2-6	36" x 36"	2
SS-5	③	W13-1-25	24" x 24"	2
SS-22	③	M1-5	24" x 24"	1
SS-23	③	M6-1R	21" x 15"	1
SS-26	③	R5-1A	42" x 30"	2

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.



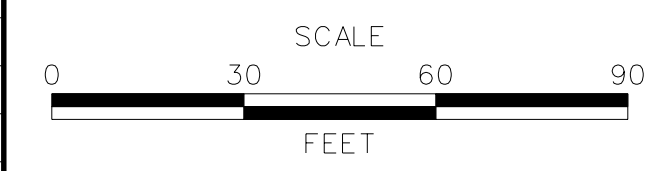
MATCHLINE STA 459+50 SEE SHEET SS-30

MATCHLINE STA 463+50 SEE SHEET SS-32 AND SS-33

179
 JOANNE E. ARMSTRONG
 T.M.*13-017.00-007
 INS.*20071015-0089547
 M.F.*7326
 M.F.*5281

179
 JOANNE E. ARMSTRONG
 T.M.*13-017.00-007
 INS.*20071015-0089547
 M.F.*5281

ADDENDUMS / REVISIONS



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T20091303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

**SIGNING, STRIPING &
 CONDUIT PLAN**

SS-31
SHEET NO.
1065
TOTAL SHTS.
1256

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SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-1A	③	W11-2	36" x 36"	2
SS-2	③	W16-7pL	24" x 12"	1
SS-3	③	W16-7pR	24" x 12"	1
SS-6	③	R1-2	36" x 36" x 36"	1
SS-7	③	R6-1L	36" x 12"	1
SS-8	③	R6-1R	36" x 12"	2
SS-9	③	M3-3	24" x 12"	1
SS-10	③	M16-11-DE	24" x 12"	1
SS-11	③	M1-4	30" x 24"	1
SS-13	③	M6-2R	21" x 15"	1
SS-14	③	W1-8	18" x 24"	4
SS-25	③	R5-7	30" x 24"	2
SS-27	③	R5-1	30" x 30"	3

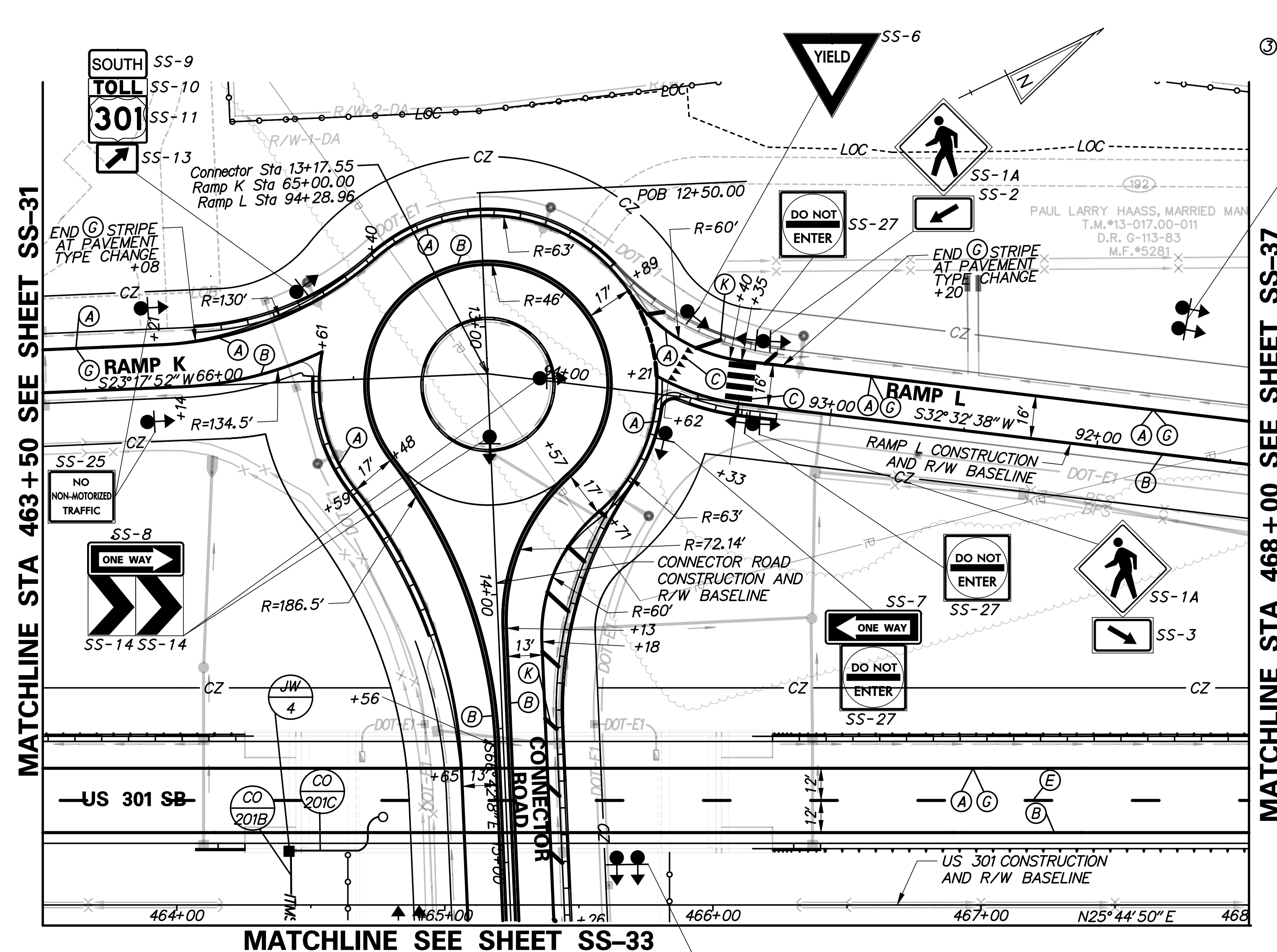
- NOTES:
- REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.
 - CROSSWALKS SHALL BE 24" WIDE AND 10' LONG WITH 24" WIDE SPACING.
 - YIELD SYMBOLS SHALL BE PLACED 4' FROM ROUNDABOUT EDGE PERPENDICULAR TO ROADWAY. REFER TO DE-MUTCD FOR YIELD MARKING LAYOUT.
 - ITS LOAD CENTER AT RAMP L STA 26+00 AND CONNECTOR ROAD. CABINET M (51" X 30" X 16.7/8" D) ON CONCRETE PAD BASE TYPE M (38" X 56" X 16" D)

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
196*	*	*	*	*	*
201B	1	2"GRS	85'	T	RWIS SENSOR CABLE
201C	1	2"GRS	45'	T	RWIS SENSOR CABLE

B=BORE, T=TRENCH, O=OPEN CUT

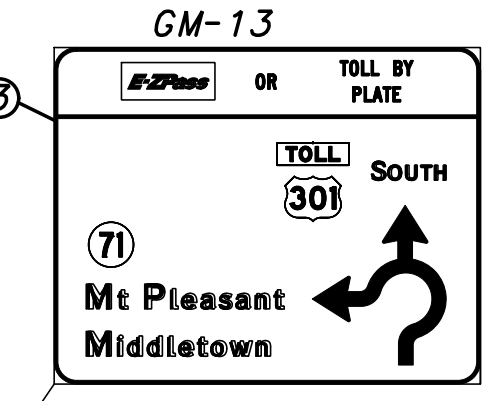
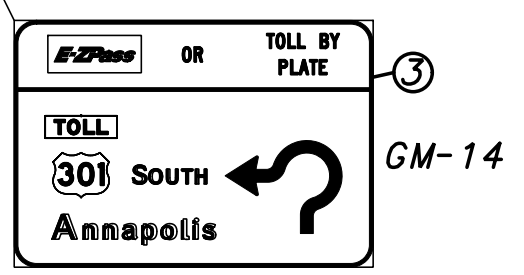
*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,371 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,364 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	133 SF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	113 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	654 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	74 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	26 LF



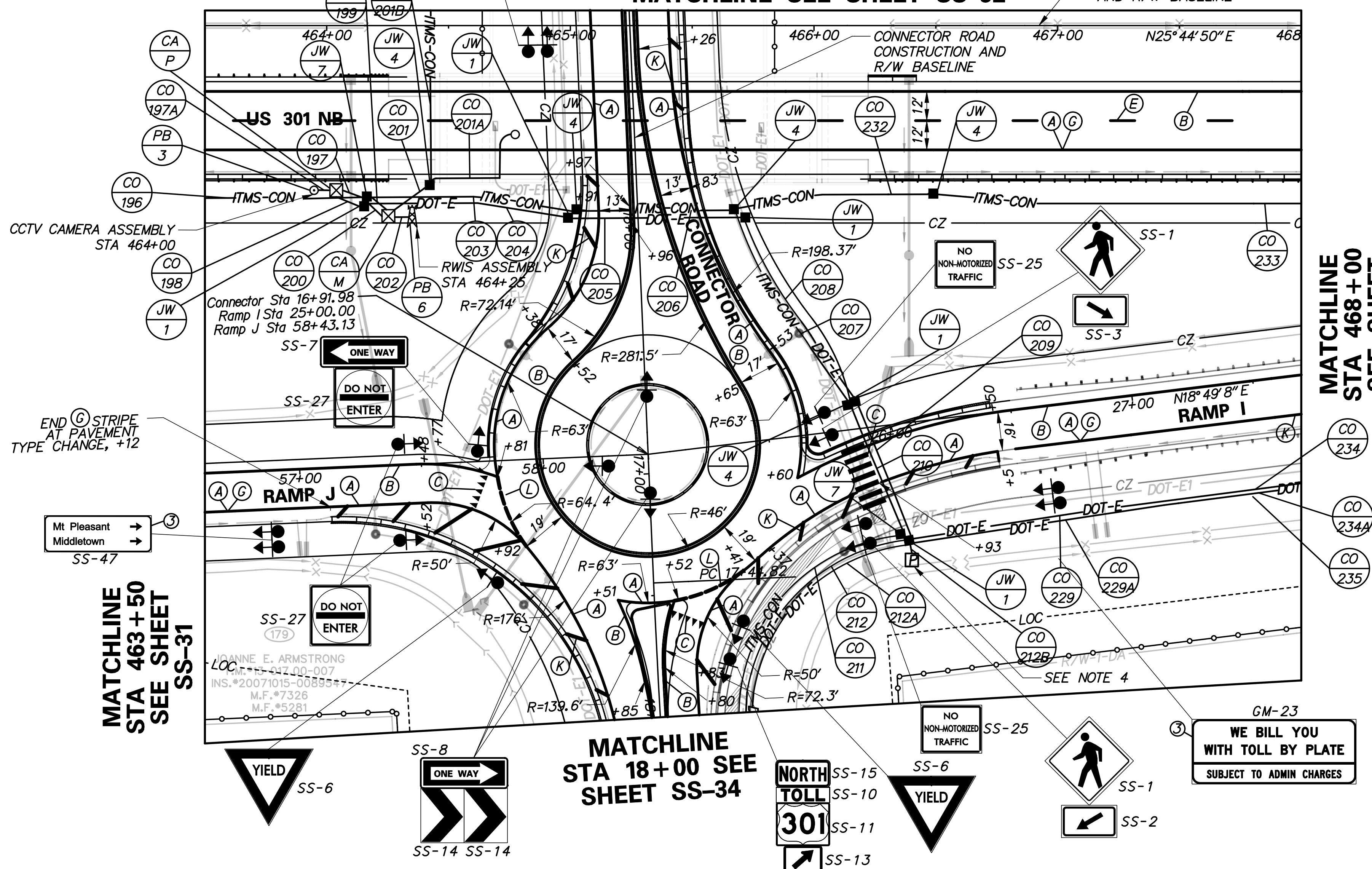
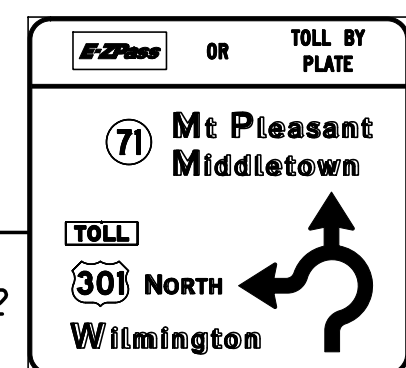
MATCHLINE STA 463 + 50 SEE SHEET SS-31

MATCHLINE STA 468 + 00 SEE SHEET SS-37



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	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD		CONTRACT T20091303	BRIDGE NO.	SIGNING, STRIPING & CONDUIT PLAN	SS-32
	COUNTY NEW CASTLE		CHECKED BY: DRB SF	DESIGNED BY: JE JW	SHEET NO. 1066			
TOTAL SHTS. 1256								1256



CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
196*	*	*	*	*	*
197	1	4" PVC	10'	T	
197A	1	4" PVC	10'	T	CAMERA CONTROL CABLE
198	1	2" GRS	10'	T	3-1/C #6 AWG
199	1	4" PVC	10'	T	
200	1	2" GRS	10'	T	3-1/C #2 AWG
201	1	4" PVC	20'	T	RWIS SENSOR CABLE
201A	1	2" GRS	45'	T	RWIS SENSOR CABLE
201B*	*	*	*	*	*
202	1	4" PVC	10'	T	
203	1	4" PVC	80'	T	
204	1	2" GRS	80'	T	3-1/C #2 AWG / 3-1/C #6 AWG
205	1	2" GRS	70'	T	3-1/C #2 AWG / 3-1/C #6 AWG
206	1	4" PVC	65'	T	
207	1	4" PVC	95'	T	
208	1	2" GRS	90'	T	3-1/C #2 AWG / 3-1/C #6 AWG
209	1	4" PVC	65'	T	
210	1	2" GRS	65'	T	3-1/C #2 AWG / 3-1/C #6 AWG
211	1	4" PVC	235'	T	
212	1	2" GRS	235'	T	3-1/C #2 AWG
212A	1	3" GRS	235'	T	4-1/C #350 KCMIL 1-1/C 2/O AWG GROUND
212B	1	3" GRS	10'	T	9-1/C #2 AWG 3-1/C #6 AWG
229	1	2" GRS	130'	T	3-1/C #2 AWG
229A	1	3" GRS	130'	T	4-1/C #350 KCMIL 1-1/C 2/O AWG GROUND
232	1	4" PVC	80'	T	
233	1	4" PVC	255'	T	
234	1	2" GRS	150'	T	3-1/C #2 AWG 3-1/C #8 AWG
234A	1	3" GRS	150'	T	4-1/C #350 KCMIL 1-1/C 2/O AWG GROUND
235	1	4" PVC	150'	T	

B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1, 371 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1, 364 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	133 SF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	113 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	654 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	246 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	33 LF

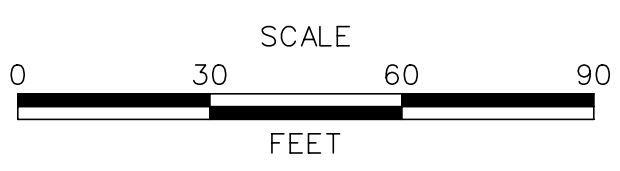
STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-1	(3)	W11-2	30" x 30"	2
SS-2	(3)	W16-7pL	24" x 12"	1
SS-3	(3)	W16-7pR	24" x 12"	1
SS-6	(3)	R1-2	36" x 36" x 36"	2
SS-7	(3)	R6-1L	36" x 12"	1
SS-8	(3)	R6-1R	36" x 12"	3
SS-10	(3)	M16-11-DE	24" x 12"	1
SS-11	(3)	M1-4	30" x 24"	1
SS-13	(3)	M6-2R	21" x 15"	1
SS-14	(3)	W1-8	18" x 24"	6
SS-15	(3)	M3-1	24" x 12"	1
SS-25	(3)	R5-7	30" x 24"	2
SS-27	(3)	R5-1	30" x 30"	3
SS-46	(3)	R2-1-10	36" x 48"	2
SS-47	(3)	D1-2	90" x 30"	1

SIGNING LEGEND	
(1)	REMOVE EXISTING SIGN
(2)	EXISTING SIGN TO REMAIN
(3)	PLACE NEW SIGN
(4)	RENEW EXISTING SIGN
(5)	REPOSITION EXISTING SIGN

- NOTES:
- REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.
 - REFER TO SHEET SS-78 FOR CCTV PB-3M POLE BASE DETAILS.
 - CROSSWALKS SHALL BE 24" WIDE AND 10' LONG WITH 24" WIDE SPACING.
 - YIELD SYMBOLS SHALL BE PLACED 4' FROM ROUNDABOUT EDGE PERPENDICULAR TO ROADWAY. REFER TO DE-MUTCD FOR YIELD MARKING LAYOUT.
 - ITS LOAD CENTER AT RAMP I STA 26+00 AND CONNECTOR ROAD. CABINET M (51" X 30" X 16 7/8" D) ON CONCRETE PAD BASE TYPE M (58" X 56" X 16" D)



ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T20091303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

**SIGNING, STRIPING &
CONDUIT PLAN**

SS-33
SHEET NO.
1067
TOTAL SHTS.
1256

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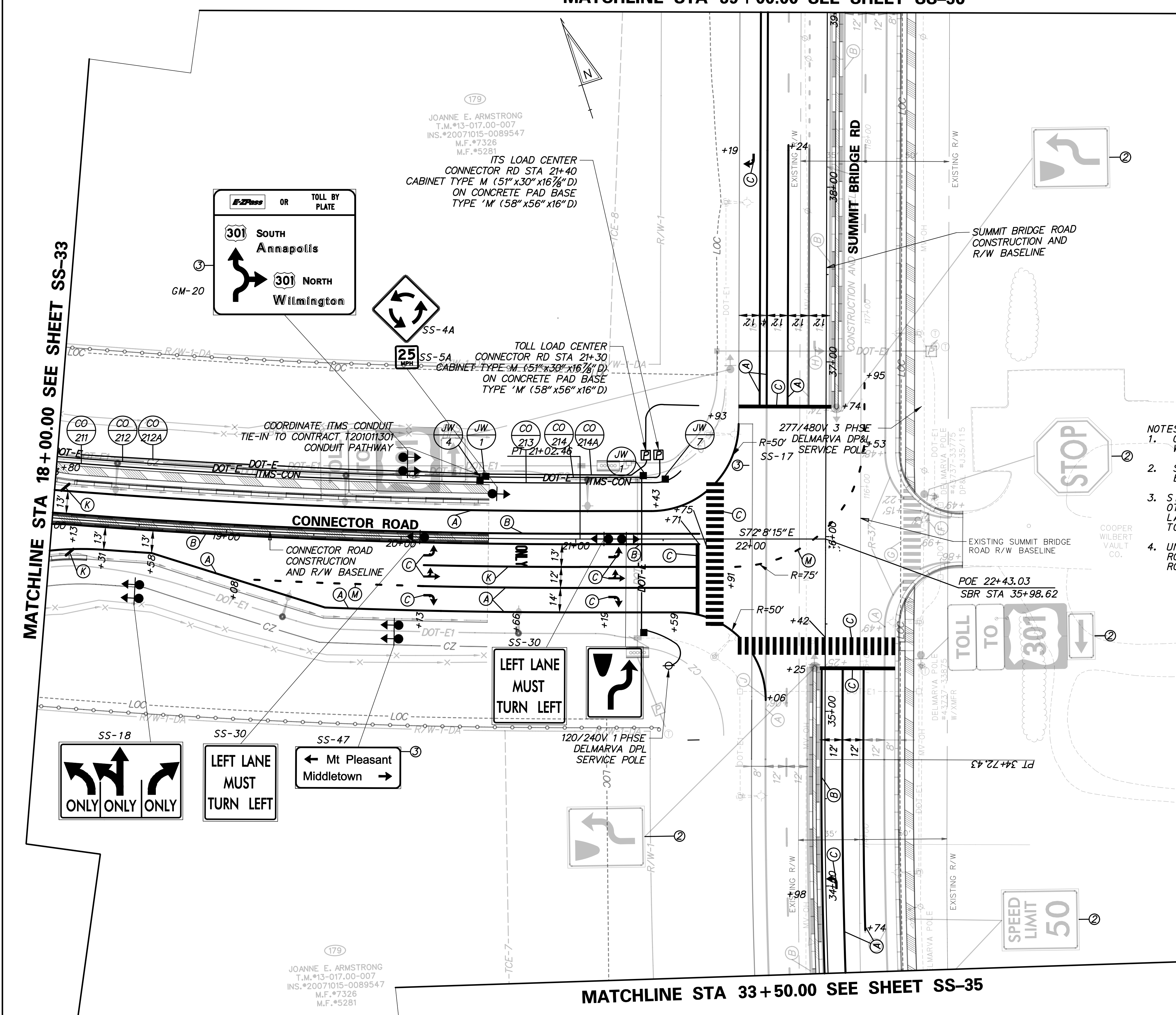
CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
211*	*	*	*	*	*
212*	*	*	*	*	*
212*	*	*	*	*	*
212A*	*	*	*	*	*
213	1	4" PVC	EXISTING	T	
214	1	2" GRS	EXISTING	T	3-1/C #2 AWG 3-1/C #6 AWG
214A	1	3" GRS	EXISTING	T	4-1/C #350 KCMIL 1-1/C 2/O AWG GROUND

B=BORE, T=TRENCH, O=OPEN CUT
*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,909 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	919 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	1,310 SF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	167 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	65 LF

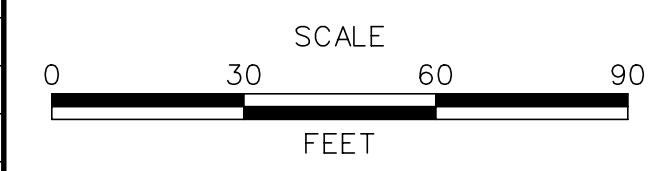
STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-4A	③	W2-6	30" x 30"	1
SS-5A	③	W13-1-25	18" x 18"	1
SS-17	③	R4-7	24" x 30"	1
SS-18	③	R3-8A	48" x 30"	1
SS-30	③	R3-7L	30" x 30"	2
SS-47	③	D1-2	90" x 30"	1



- NOTES:
- CROSSWALK SHALL BE 24" WIDE x 10 ft. LONG WITH 24" WIDE SPACINGS.
 - STOP BAR SHALL BE 24" WIDE PLACED 4.0 ft. BEHIND CROSSWALK.
 - SIGNS ALONG SUMMIT BRIDGE ROAD ARE PLACED BY OTHERS IN SEPARATE CONTRACT. EXISTING SIGNS LABELED AS "UNBAG" SHALL BE UNCOVERED PRIOR TO OPENING TURN LANES TO TRAFFIC.
 - UNBAG EXISTING SIGNAGE ALONG SUMMIT BRIDGE ROAD PER CONTRACT SPECIFICATIONS DURING ROADWAY OPENING.

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ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	T20091303
COUNTY	NEW CASTLE
BRIDGE NO.	
DESIGNED BY:	JE JW
CHECKED BY:	DRB SF

SIGNING, STRIPING & CONDUIT PLAN

SS-34	SHEET NO.	1068
	TOTAL SHTS.	1256

179
 JOANNE E. ARMSTRONG
 T.M.*13-017.00-007
 INS.*20071015-0089547
 M.F.*7326
 M.F.*5281

190
 GROWMARK FS, INC.
 T.M.*13-017.00-077
 INS.*20021218-0121196
 M.F.*7415

191
 PAUL E. COOPER AND JOANNE D. COOPER, H/W
 T.M.*13-017.00-044
 INS.*20050810-0079464
 M.F.*20020906-0086530

NOTES:
 1. UNBAG EXISTING SIGNAGE ALONG SUMMIT BRIDGE ROAD PER CONTRACT SPECIFICATIONS DURING ROADWAY OPENING.

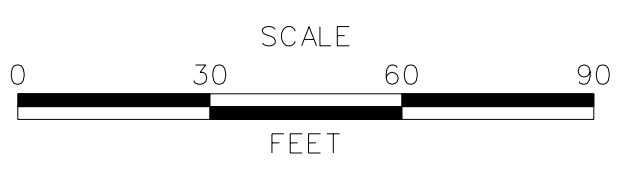
MATCHLINE STA 33+50.00 SEE SHEET SS-34

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	85 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	436 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	32 SF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	88 LF



ADDENDUMS / REVISIONS	



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

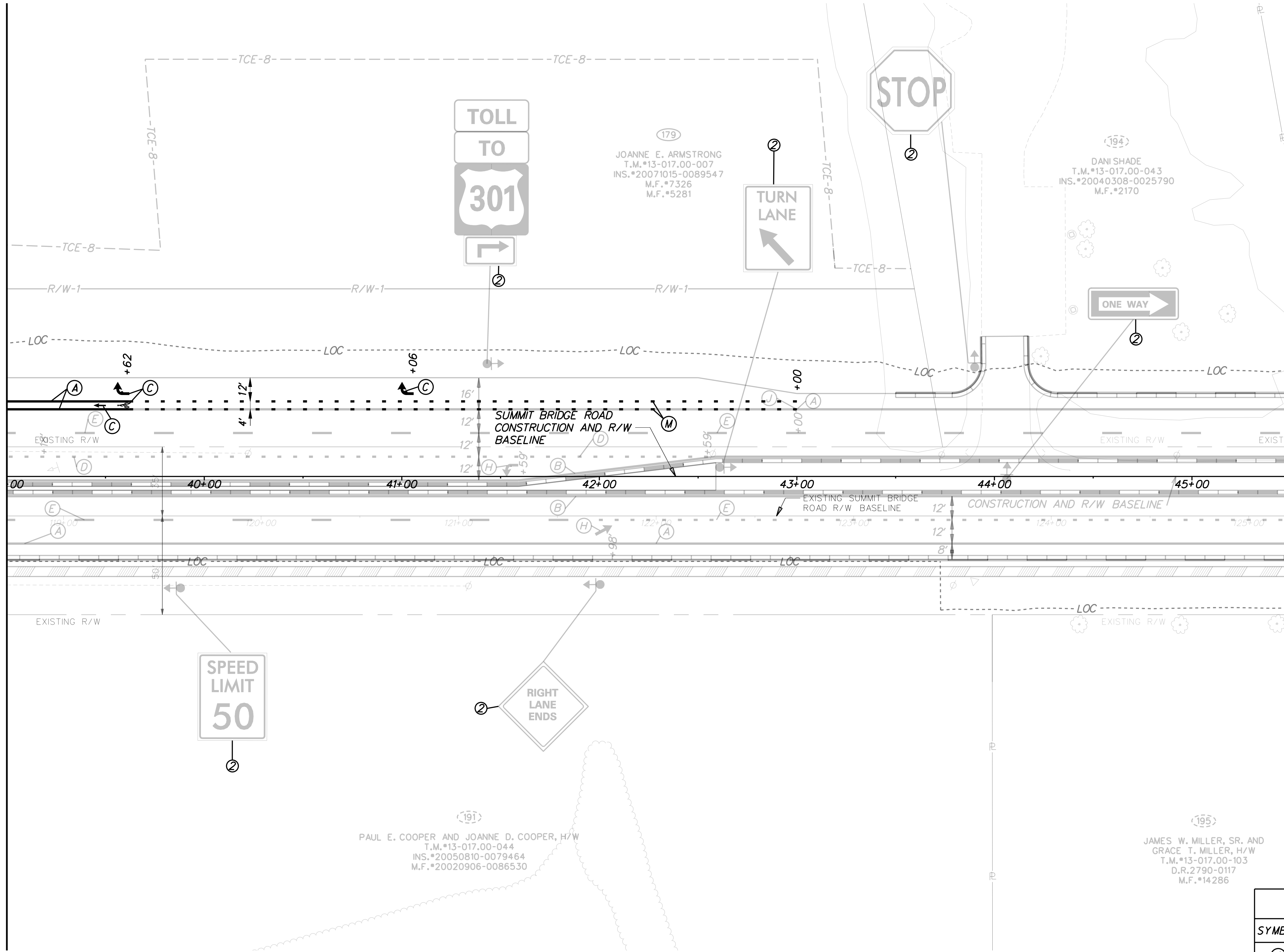
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

**SIGNING, STRIPING &
 CONDUIT PLAN**

SS-35
SHEET NO.
1069
TOTAL SHTS.
1256

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MATCHLINE STA 39+00.00 SEE SHEET SS-34



NOTES:
1. UNBAG EXISTING SIGNAGE ALONG SUMMIT BRIDGE ROAD PER CONTRACT SPECIFICATIONS DURING ROADWAY OPENING.

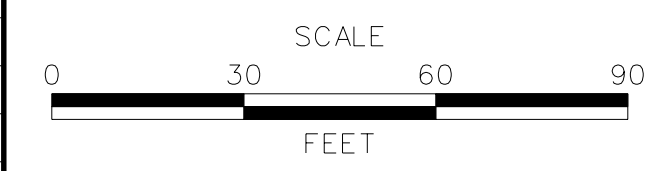
SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	124 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	40 SF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	169 LF

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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

**SIGNING, STRIPING &
CONDUIT PLAN**

SS-36
SHEET NO.
1070
TOTAL SHTS.
1256

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
215	2	4" GRS	75'	T	
216	3	4" PVC	75'	T	
217	2	4" GRS	75'	T	
218	3	4" PVC	75'	T	
219	2	4" GRS	60'	T	
220	3	4" PVC	60'	T	
221	3	4" PVC	70'	T	
222	2	4" GRS	70'	T	
225	1	4" PVC	215'	T	
226	1	2" GRS	210'	T	3-1/C #8 AWG
227	1	4" PVC	10'	T	
228	1	2" GRS	10'	T	3-1/C #8 AWG
230	1	2" GRS	10'	T	3-1/C #8 AWG
231	1	4" PVC	10'	T	
233*	*	*	*	*	*
234*	*	*	*	*	*
234A*	*	*	*	*	*
235*	*	*	*	*	*
236	2	4" PVC	60'	T	3-1/C #2 AWG
237A	3	4" PVC	60'	T	
238	2	4" GRS	60'	T	3-1/C #2 AWG
239	3	4" PVC	55'	T	
241					NOT USED
242	1	4" PVC	360'	T	
243					NOT USED

B=BORE, T=TRENCH, O=OPEN CUT

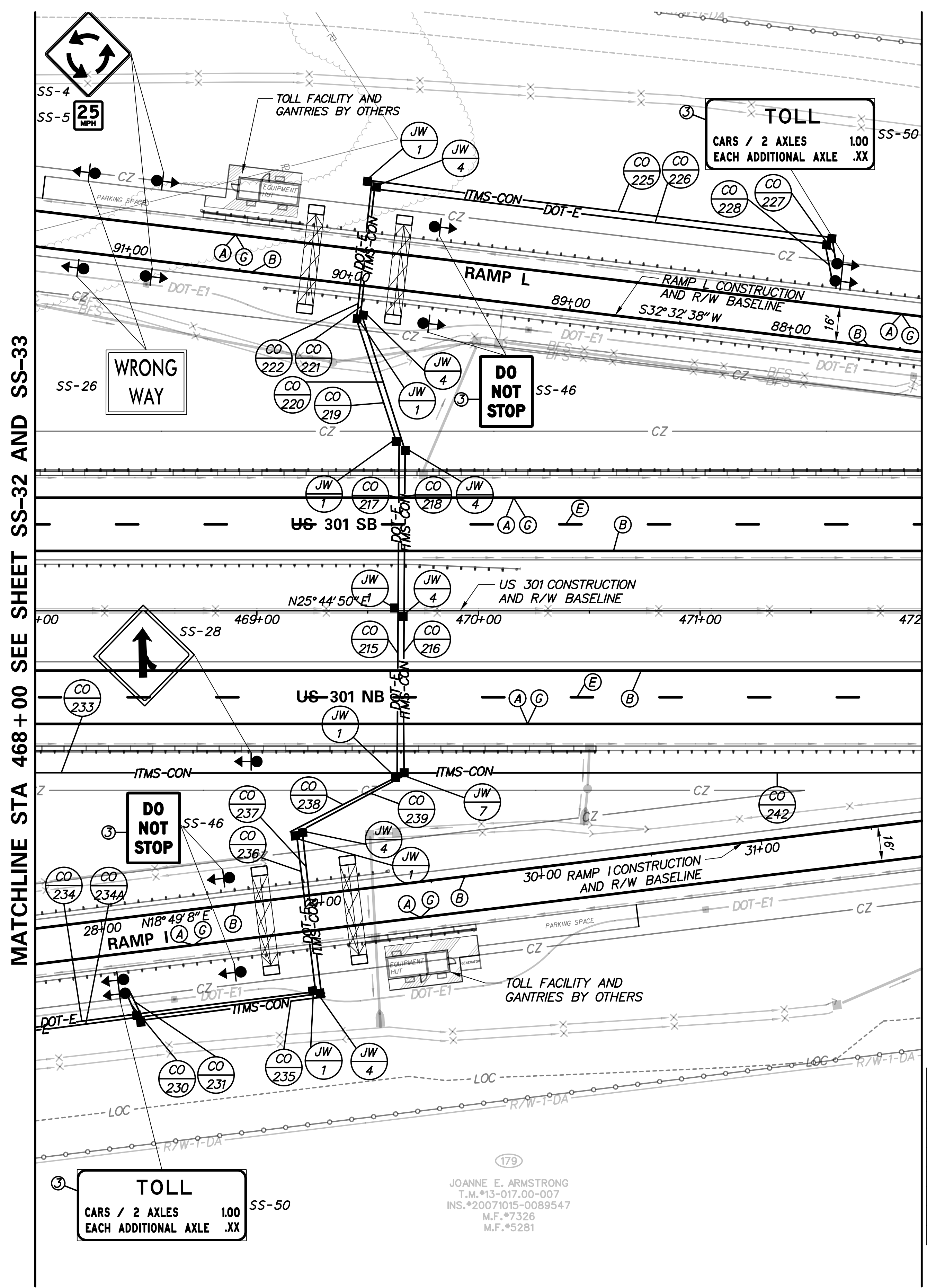
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,606 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,606 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	200 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,606 LF

* INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-4	③	W2-6	36" x 36"	2
SS-5	③	W13-1-25	24" x 24"	2
SS-26	③	R5-1A	42" x 30"	2
SS-28	③	W4-1	48" x 48"	1
SS-50	③	R3-28	114" x 48"	2
SS-46	③		36" x 48"	4

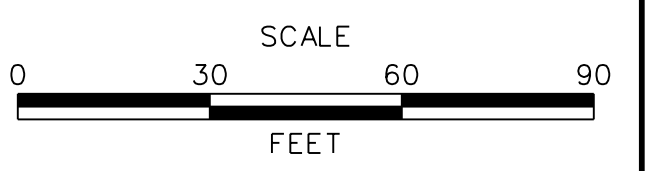
NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.



179
 JOANNE E. ARMSTRONG
 T.M.#13-017.00-007
 INS.#20071015-0089547
 M.F.#7326
 M.F.#5281



ADDENDUMS / REVISIONS



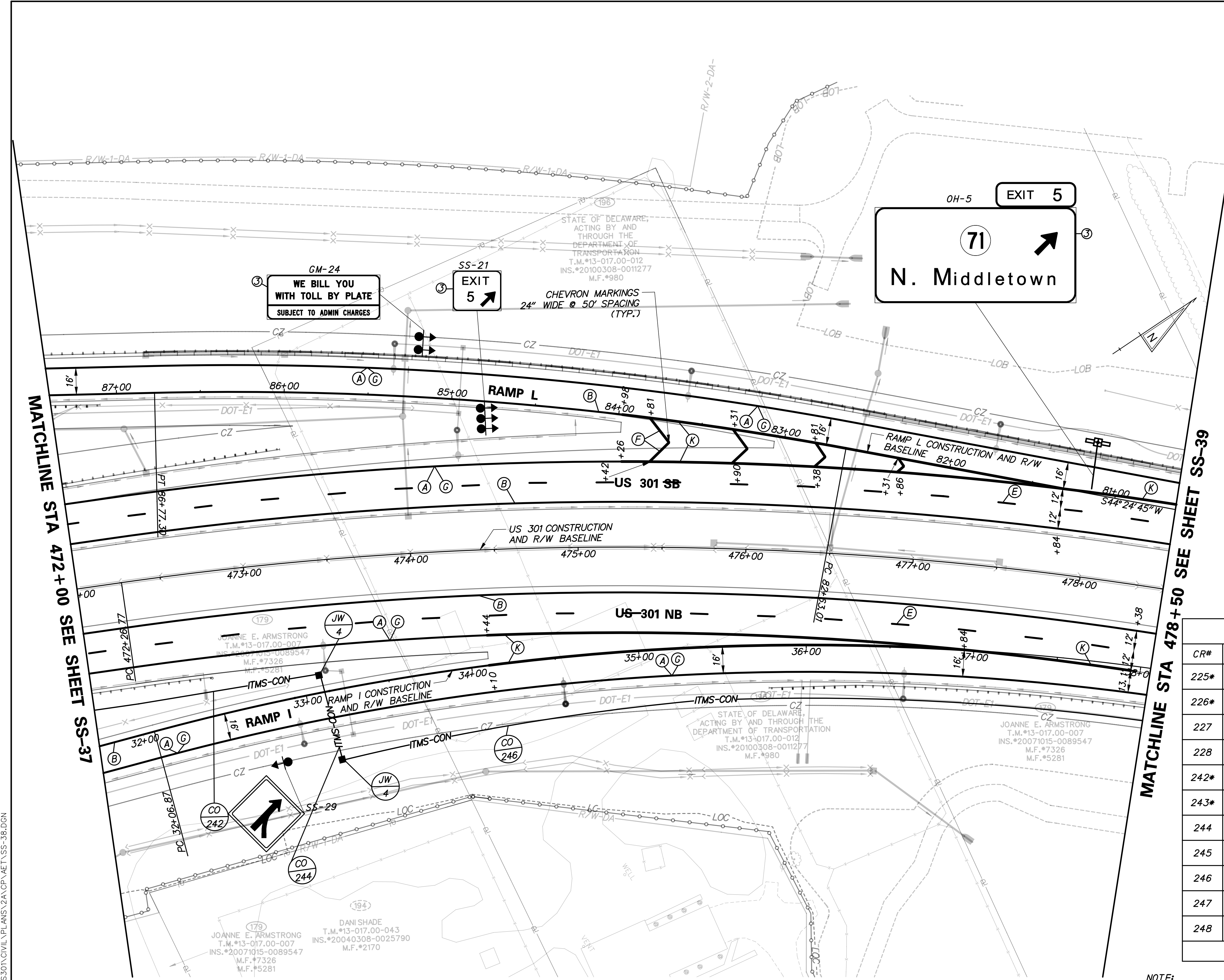
**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT T20091303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JE JW CHECKED BY: DRB SF

**SIGNING, STRIPING &
 CONDUIT PLAN**

SS-37
SHEET NO. 1071
TOTAL SHTS. 1256

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SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-21	③	E5-1A	72" x 60"	1
SS-29	③	W4-5	48" x 48"	1

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,884 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,880 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	325 LF
(F)	12' SOLID WHITE RETROREFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	92 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,884 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	1,268 LF

CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
225*	*	*	*	*	*
226*	*	*	*	*	*
227	1	4" PVC	10'	T	
228	1	2" GRS	10'	T	3-1/C #8 AWG
242*	*	*	*	*	*
243*					NOT USED
244	1	4" PVC	55'	T	
245					NOT USED
246	1	4" PVC	535'	T	
247					NOT USED
248					NOT USED

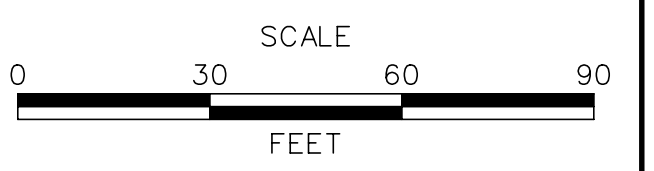
B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.



ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T20091303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

SIGNING, STRIPING & CONDUIT PLAN

SS-38
SHEET NO.
1072
TOTAL SHTS.
1256

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CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
246*	*	*	*	*	*
248*					NOT USED
249	1	4" PVC	10'	T	
250					NOT USED
251	1	4" PVC	520'	T	

B=BORE, T=TRENCH, O=OPEN CUT

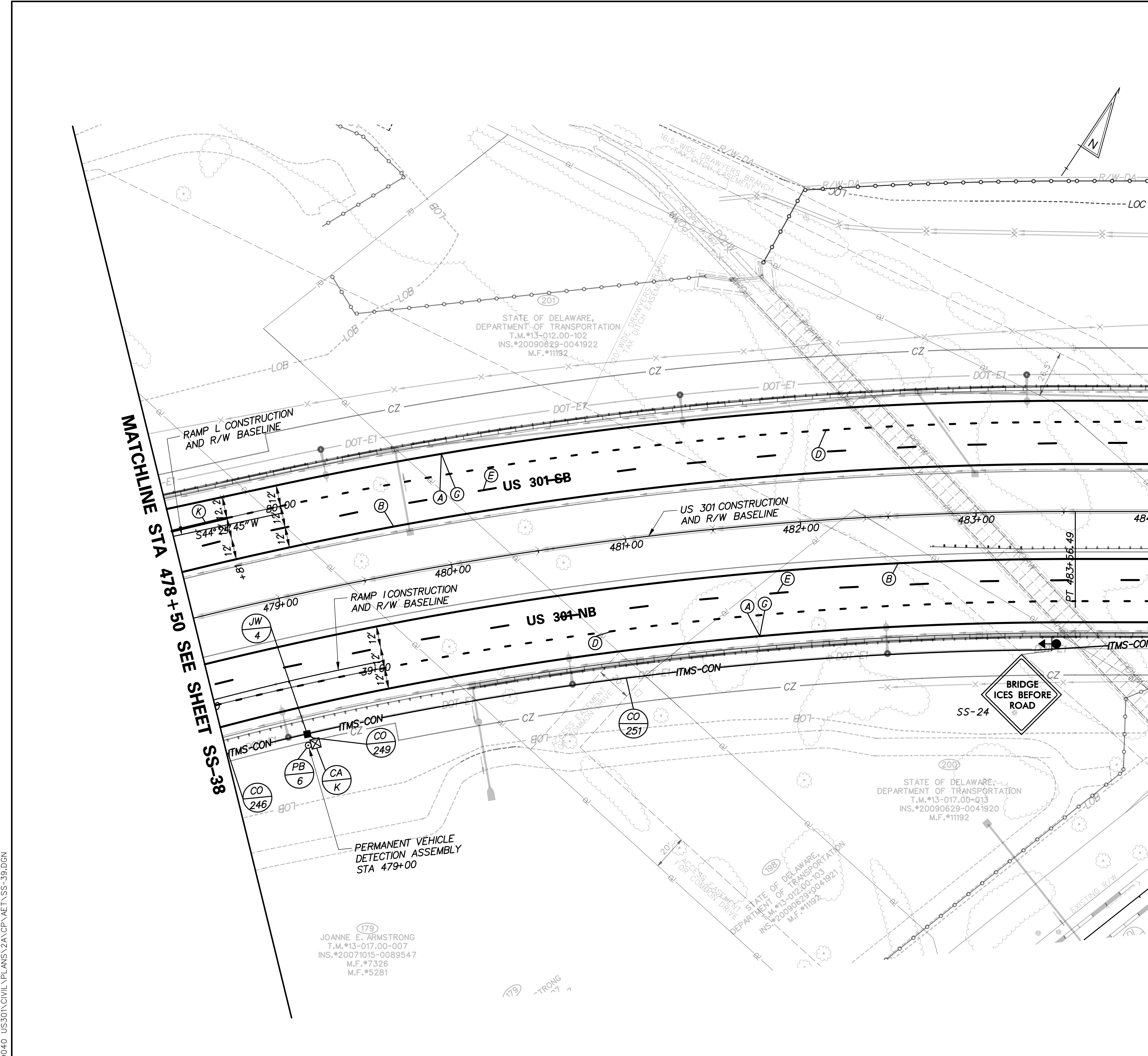
*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,100 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1,100 LF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	267 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	275 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1,100 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	32 LF

STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-24	③	W8-13	48" x 48"	1

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.



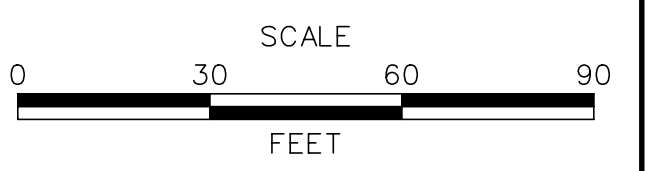
MATCHLINE STA 478+50 SEE SHEET SS-38

MATCHLINE STA 484+00 SEE SHEET SS-40

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ADDENDUMS / REVISIONS	



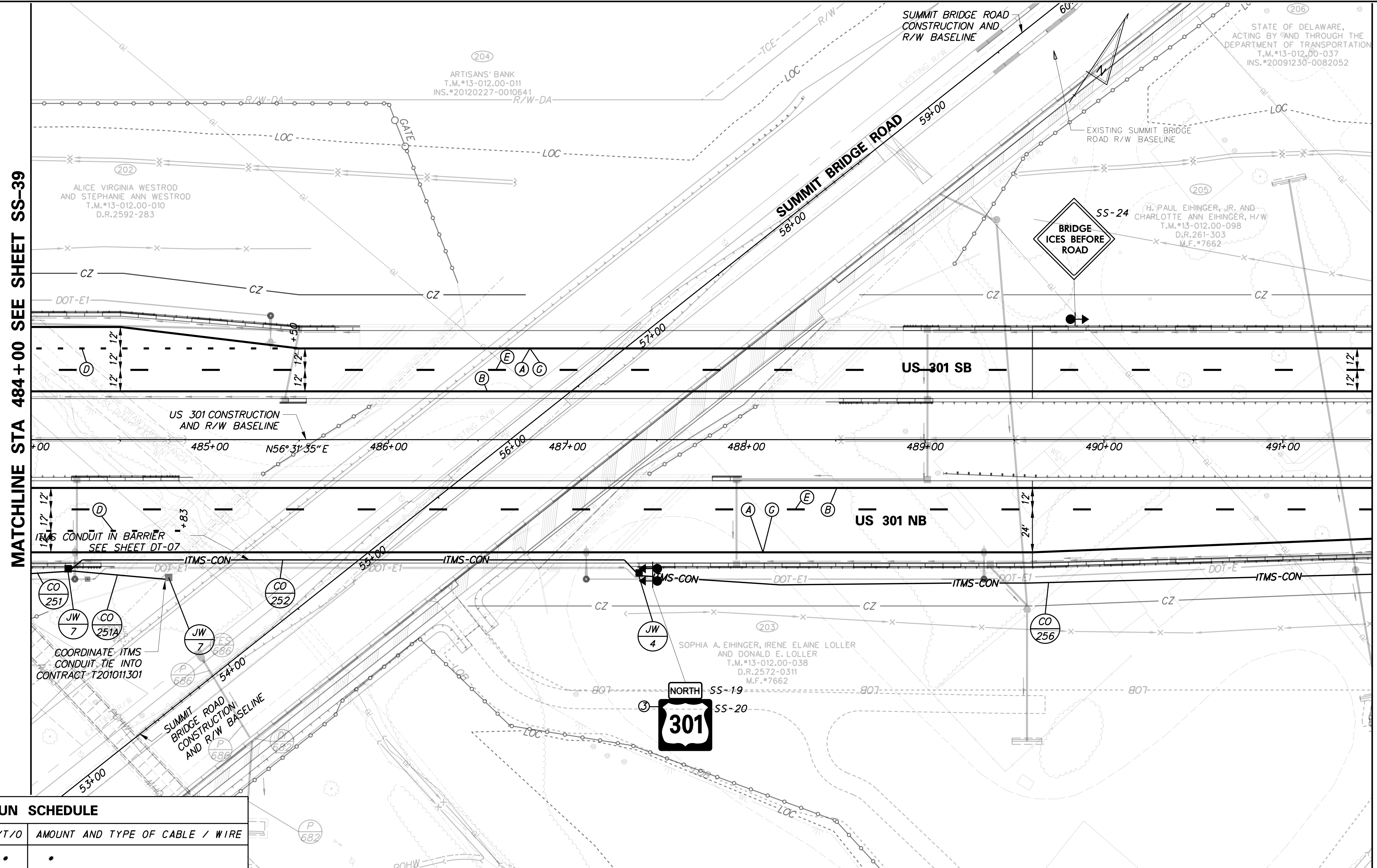
US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	T20091303
COUNTY	NEW CASTLE
BRIDGE NO.	
DESIGNED BY:	JE JW
CHECKED BY:	DRB SF

SIGNING, STRIPING & CONDUIT PLAN

SS-39
SHEET NO.
1073
TOTAL SHTS.
1256

STATE OF DELAWARE,
ACTING BY AND THROUGH THE
DEPARTMENT OF TRANSPORTATION
T.M.#13-012,00-037
INS.#20091230-0082052



MATCHLINE STA 484+00 SEE SHEET SS-39

MATCHLINE STA 491+50 SEE SHEET SS-41

* INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS
** INDICATES CONDUIT RUN INSTALLED WITHIN BARRIER

CONDUIT RUN SCHEDULE					
CR#	# OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
251*	*	*	*	*	*
251A	1	4" PVC	60'	T	
252	1	4" PVC	320'	**	
253					NOT USED
254					NOT USED
255					NOT USED
256	1	4" PVC	525'	T	
257					NOT USED

B=BORE, T=TRENCH, O=OPEN CUT

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1, 501 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1, 500 LF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	58 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	375 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1, 501 LF

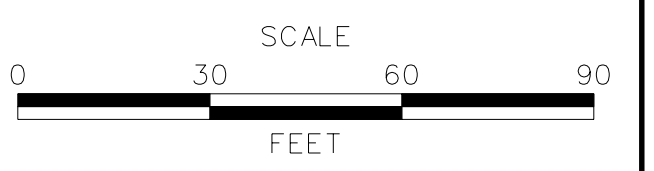
STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-19	③	M3-1	30" x 15"	1
SS-20	③	M1-4	60" x 48"	1
SS-24	③	WB-13	48" x 48"	1

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.

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ADDENDUMS / REVISIONS	



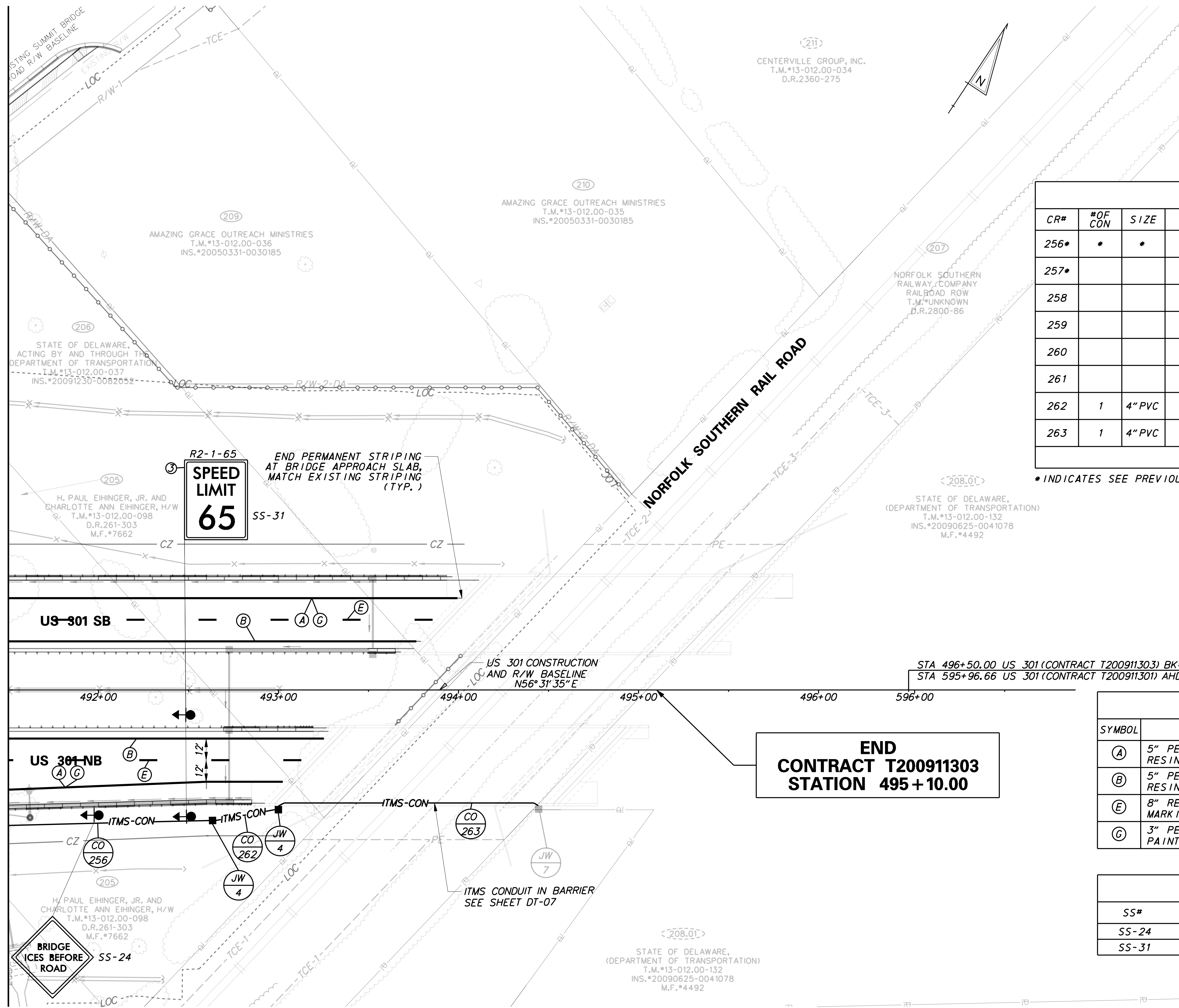
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JE JW
NEW CASTLE	CHECKED BY: DRB SF

**SIGNING, STRIPING &
CONDUIT PLAN**

SS-40
SHEET NO.
1074
TOTAL SHTS.
1256

MATCHLINE STA 491+50 SEE SHEET SS-40



CONDUIT RUN SCHEDULE					
CR#	#OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
256*	*	*	*	*	*
257*					NOT USED
258					NOT USED
259					NOT USED
260					NOT USED
261					NOT USED
262	1	4" PVC	35'	T	
263	1	4" PVC	145'	O	

B=BORE, T=TRENCH, O=OPEN CUT

*INDICATES SEE PREVIOUS SHEET FOR CONDUIT RUN DETAILS

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	402 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	402 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	100 LF
(C)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	402 LF

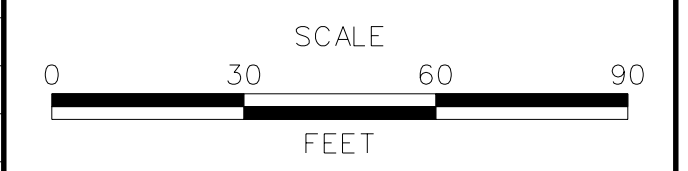
STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-24	③	W8-13	48" x 48"	1
SS-31	③	R2-1-65	48" x 60"	2

NOTE: REFER TO SHEET SS-01 FOR PROJECT SIGNING NOTES.

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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JE JW
COUNTY	CHECKED BY:	DRB SF
NEW CASTLE		

SIGNING, STRIPING & CONDUIT PLAN	SS-41
	SHEET NO. 1075
	TOTAL SHTS. 1256

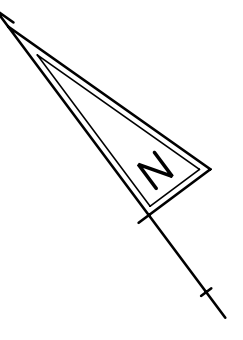
CONDUIT RUN SCHEDULE					
CO#	# OF CON	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE / WIRE
73	1	4" PVC	600'	T	

PAVEMENT MARKING LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1,100 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	83 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	8 SF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE AND 2' GAP (ITEM 748549)	20 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	1,471 LF
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	33 LF

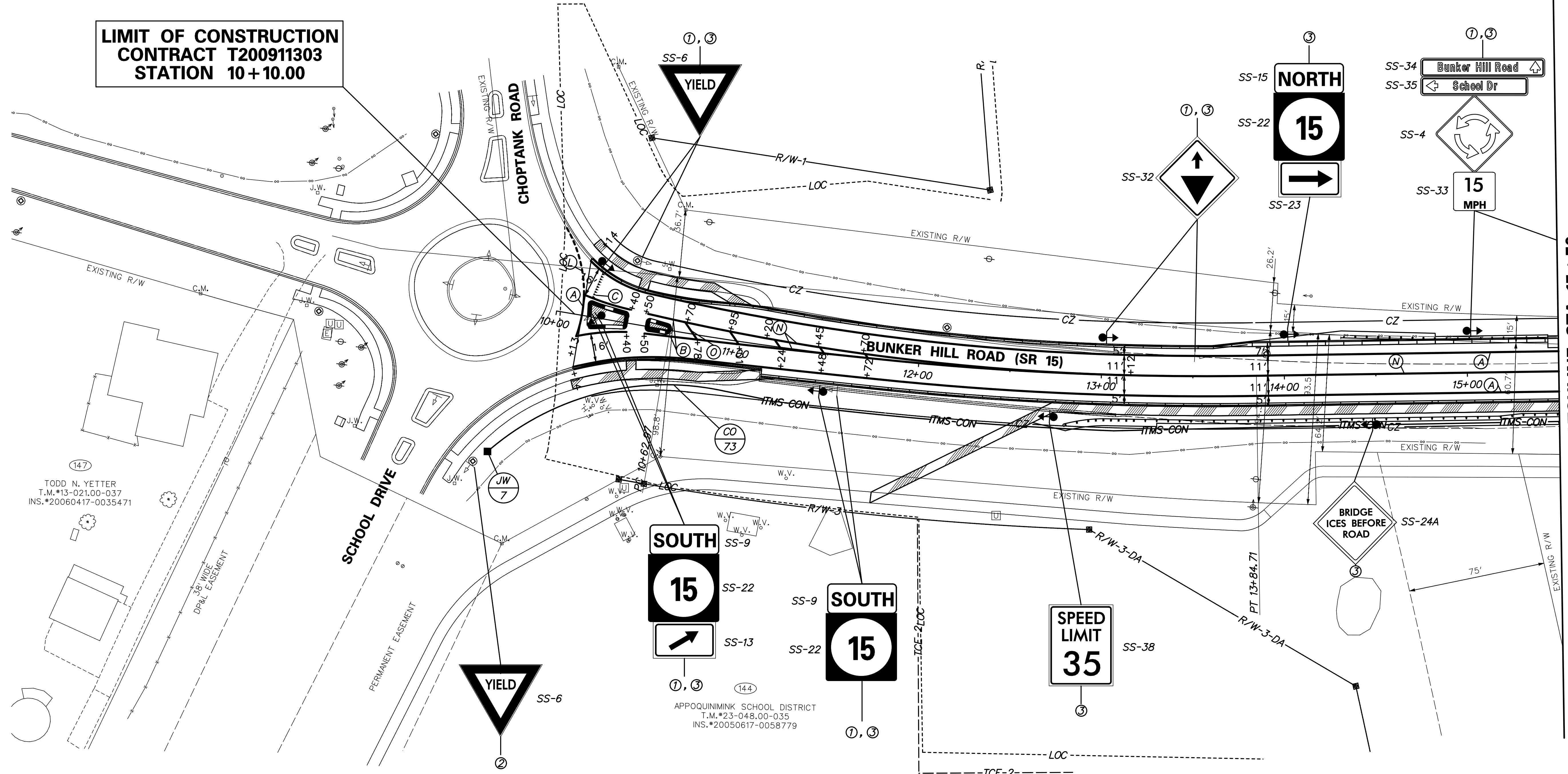
SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

NOTE:
1. REFER TO SHEET SS-01 FOR PROJECT SIGNING, STRIPING AND CONDUIT NOTES

STANDARD SIGN SCHEDULE				
SS#	LEGEND	SIGN	SIZE	QUANTITY (EA)
SS-4	1, 3	W2-6	30" x 30"	1
SS-6	1, 2, 3	R1-2	36" x 36" x 36"	2
SS-9	1, 3	M3-3	24" x 12"	2
SS-13	1, 3	M6-2R	21" x 15"	1
SS-15	3	M3-1	24" x 12"	1
SS-22	1, 3	M1-5	24" x 24"	3
SS-23	3	M6-1R	21" x 15"	1
SS-24A	3	W8-13	30" x 30"	1
SS-32	1, 3	W3-2	36" x 36"	1
SS-33	1, 3	W13-1-15	18" x 18"	1
SS-34	1, 3	W16-8a-DE	44" x 8"	1
SS-35	1, 3	W16-8a-DE	36" x 8"	1
SS-38	3	R2-1-35	24" x 30"	1



**LIMIT OF CONSTRUCTION
CONTRACT T200911303
STATION 10+10.00**

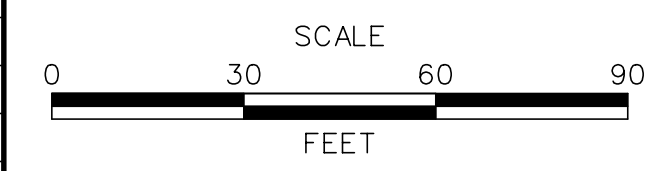


MATCHLINE STA. 15+50
SEE SHEET SS-12

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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	T200911303
COUNTY	NEW CASTLE
BRIDGE NO.	
DESIGNED BY:	AG
CHECKED BY:	MT

**SIGNING, STRIPING &
CONDUIT PLAN**

SS-42	SHEET NO.
	1076
	TOTAL SHTS.
	1256

PANEL DESIGNATION	DWG. NO. (SS-)	QUANTITY	LEGEND	SIZE		COLOR		BORDER		ARROW	SHIELD	REMARKS	
				AREA (SF)	WIDTH	HEIGHT	LEGEND	BCKGRND	WIDTH				RADIUS
OH-3	20	1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -4-W (2) CLEARVIEWHWY -5-W (TO BE CONSTRUCTED BY OTHERS)
				210	15'-0"	14'-0"	W	G	2"	12"	TYPE A @ 45°	SR 896 45" x 36"	
OH-4 OH-5	30 38	1 1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -5-W (2) CLEARVIEWHWY -4-W
				240	24'-0"	10'-0"	W	G	2"	12"	TYPE A @ 45°	SR 71 36" x 36"	

LEGEND & BACKGROUND COLORS: B=BLACK, BLU=BLUE, G=GREEN, R=RED, W=WHITE/SILVER, Y=YELLOW, FY=FLUORESCENT YELLOW, P=PURPLE, LT=LEFT, RT=RIGHT, FH=FISH-HOOK ARROW PER DE-MUTCD

LAST REVISED: 5/5/2009 P:\CADD\2160049040 US301\CIVIL\PLANS\2A\CP\AET\SS-47.DGN

	ADDENDUMS / REVISIONS		SCALE AS SHOWN	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	SIGN DETAILS	SS-47	
					T200911303			SHEET NO.	1081
					COUNTY	DESIGNED BY: DB JW		TOTAL SHTS.	1256
					NEW CASTLE	CHECKED BY: SH SF			

PANEL DESIGNATION	DWG. NO. (SS-)	QUANTITY	LEGEND	SIZE			COLOR		BORDER		ARROW	SHIELD	REMARKS
				AREA (SF)	WIDTH	HEIGHT	LEGEND	BCKGRND	WIDTH	RADIUS			
GM-5	10	1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -4-W (2) CLEARVIEWHWY -5-W (TO BE CONSTRUCTED BY OTHERS)
				238	14'-0"	17'-0"	W	G	2"	12"	-	SR896 45" x 36"	
GM-	-	-		77	14'-0"	5'-6"	W	G	2"	12"	-	-	EXTRUDED ALUMINUM SERIES D

LEGEND & BACKGROUND COLORS: B=BLACK, BLU=BLUE, G=GREEN, R=RED, W=WHITE/SILVER, Y=YELLOW, FY=FLUORESCENT YELLOW, P=PURPLE, LT=LEFT, RT=RIGHT, FH=FISH-HOOK ARROW PER DE-MUTCD

LAST REVISED: 5/5/2009 P:\CADD\260049040 US301\CIVIL\PLANS\2A\CP\AET\SS-48.DGN

	ADDENDUMS / REVISIONS		SCALE AS SHOWN	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	SIGN DETAILS	SS-48
					T200911303			SHEET NO.
					COUNTY	DESIGNED BY: DB JW		1082
					NEW CASTLE	CHECKED BY: SH SF		TOTAL SHTS.
								1256

PANEL DESIGNATION	DWG. NO. (SS-)	QUANTITY	LEGEND	SIZE		COLOR		BORDER		ARROW	SHIELD	REMARKS	
				AREA (SF)	WIDTH	HEIGHT	LEGEND	BCKGRND	WIDTH				RADIUS
GM-6	10	1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -5-W (2) CLEARVIEWHWY -4-W
				285	19'-0"	15'-0"	W	G	2"	12"	-	SR299 45" x 36"	
GM-7	15	1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -4-W (2) CLEARVIEWHWY -5-W (TO BE CONSTRUCTED BY OTHERS)
				238	14'-0"	17'-0"	W	G	2"	12"	-	SR896 45" x 36"	
GM-8	14	1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -5-W (2) CLEARVIEWHWY -4-W
				285	19'-0"	15'-0"	W	G	2"	12"	-	SR299 45" x 36"	

LEGEND & BACKGROUND COLORS: B=BLACK, BLU=BLUE, G=GREEN, R=RED, W=WHITE/SILVER, Y=YELLOW, FY=FLUORESCENT YELLOW, P=PURPLE, LT=LEFT, RT=RIGHT, FH=FISH-HOOK ARROW PER DE-MUTCD

LAST REVISED: 5/5/2009 P:\CADD\260049040 US301\CIVIL\PLANS\2A\CPA\LET\SS-49.DGN

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE AS SHOWN

US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	DB JW
COUNTY	CHECKED BY:	SH SF
NEW CASTLE		

SIGN DETAILS

SS-49
SHEET NO.
1083
TOTAL SHTS.
1256

PANEL DESIGNATION	DWG. NO. (SS-)	QUANTITY	LEGEND	SIZE		COLOR		BORDER		ARROW	SHIELD	REMARKS	
				AREA (SF)	WIDTH	HEIGHT	LEGEND	BCKGRND	WIDTH				RADIUS
OH-1A	01	1		112	16'-0"	7'-0"	E	Y					EXTRUDED ALUMINUM E SERIES
				112	16'-0"	7'-0"	W	G	2"	12"	-	-	
OH-1B	01	1		117	13'-0"	9'-0"	W	G	2"	12"	-	-	E-ZPass 99" x 24" ONLY 66" x 20" EXTRUDED ALUMINUM (1) CLEARVIEWHWY -4-W
OH-2	03	1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -5-W (2) CLEARVIEWHWY -4-W
				276	23'-0"	12'-0"	W	G	2"	12"	TYPE A @ 45°	SR299 45" x 36"	

LEGEND & BACKGROUND COLORS: B=BLACK, BLU=BLUE, G=GREEN, R=RED, W=WHITE/SILVER, Y=YELLOW, FY=FLUORESCENT YELLOW, P=PURPLE, LT=LEFT, RT=RIGHT, FH=FISH-HOOK ARROW PER DE-MUTCD

LAST REVISED: 5/5/2009 P:\CADD\26049040 US301\CIVIL\PLANS\2A\CP\AET\SS-46.DGN

	ADDENDUMS / REVISIONS		SCALE AS SHOWN	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	SIGN DETAILS	SS-46
					T200911303			SHEET NO.
					COUNTY	DESIGNED BY: DB JW		1080
					NEW CASTLE	CHECKED BY: SH SF		TOTAL SHTS.
								1256

PANEL DESIGNATION	DWG. NO. (SS-)	QUANTITY	LEGEND	SIZE		COLOR		BORDER		ARROW	SHIELD	REMARKS	
				AREA (SF)	WIDTH	HEIGHT	LEGEND	BCKGRND	WIDTH				RADIUS
OH-3	20	1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -4-W (2) CLEARVIEWHWY -5-W (TO BE CONSTRUCTED BY OTHERS)
				210	15'-0"	14'-0"	W	G	2"	12"	TYPE A @ 45°	SR 896 45" x 36"	
OH-4 OH-5	30 38	1 1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -5-W (2) CLEARVIEWHWY -4-W
				240	24'-0"	10'-0"	W	G	2"	12"	TYPE A @ 45°	SR 71 36" x 36"	

LEGEND & BACKGROUND COLORS: B=BLACK, BLU=BLUE, G=GREEN, R=RED, W=WHITE/SILVER, Y=YELLOW, FY=FLUORESCENT YELLOW, P=PURPLE, LT=LEFT, RT=RIGHT, FH=FISH-HOOK ARROW PER DE-MUTCD

LAST REVISED: 5/5/2009 P:\CADD\2160049040 US301\CIVIL\PLANS\2A\CP\AET\SS-47.DGN

	ADDENDUMS / REVISIONS		SCALE AS SHOWN	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	SIGN DETAILS	SS-47
					T20091303			SHEET NO.
					COUNTY	DESIGNED BY: DB JW		1081
					NEW CASTLE	CHECKED BY: SH SF		TOTAL SHTS.
								1256

PANEL DESIGNATION	DWG. NO. (SS-)	QUANTITY	LEGEND	SIZE			COLOR		BORDER		ARROW	SHIELD	REMARKS
				AREA (SF)	WIDTH	HEIGHT	LEGEND	BCKGRND	WIDTH	RADIUS			
GM-5	10	1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -4-W (2) CLEARVIEWHWY -5-W (TO BE CONSTRUCTED BY OTHERS)
				238	14'-0"	17'-0"	W	G	2"	12"	-	SR896 45" x 36"	
GM-	-	-		77	14'-0"	5'-6"	W	G	2"	12"	-	-	EXTRUDED ALUMINUM SERIES D

LEGEND & BACKGROUND COLORS: B=BLACK, BLU=BLUE, G=GREEN, R=RED, W=WHITE/SILVER, Y=YELLOW, FY=FLUORESCENT YELLOW, P=PURPLE, LT=LEFT, RT=RIGHT, FH=FISH-HOOK ARROW PER DE-MUTCD

LAST REVISED: 5/5/2009 P:\CADD\2160049040 US301\CIVIL\PLANS\2A\CP\AET\SS-48.DGN

	ADDENDUMS / REVISIONS	SCALE AS SHOWN	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	SIGN DETAILS	SS-48
				T200911303			DESIGNED BY: DB JW
				COUNTY	CHECKED BY: SH SF	TOTAL SHTS. 1256	
				NEW CASTLE			

PANEL DESIGNATION	DWG. NO. (SS-)	QUANTITY	LEGEND	SIZE		COLOR		BORDER		ARROW	SHIELD	REMARKS	
				AREA (SF)	WIDTH	HEIGHT	LEGEND	BCKGRND	WIDTH				RADIUS
GM-6	10	1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -5-W (2) CLEARVIEWHWY -4-W SR299 45" x 36"
				285	19'-0"	15'-0"	W	G	2"	12"	-		
GM-7	15	1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -4-W (2) CLEARVIEWHWY -5-W (TO BE CONSTRUCTED BY OTHERS) SR896 45" x 36"
				238	14'-0"	17'-0"	W	G	2"	12"	-		
GM-8	14	1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -5-W (2) CLEARVIEWHWY -4-W SR299 45" x 36"
				285	19'-0"	15'-0"	W	G	2"	12"	-		

LEGEND & BACKGROUND COLORS: B=BLACK, BLU=BLUE, G=GREEN, R=RED, W=WHITE/SILVER, Y=YELLOW, FY=FLUORESCENT YELLOW, P=PURPLE, LT=LEFT, RT=RIGHT, FH=FISH-HOOK ARROW PER DE-MUTCD

LAST REVISED: 5/5/2009 P:\CADD\2160049040 US301\CIVIL\PLANS\2A\CP\AET\SS-49.DGN

ADDENDUMS / REVISIONS

SCALE AS SHOWN

US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	DB JW
COUNTY	CHECKED BY:	SH SF
NEW CASTLE		

SIGN DETAILS

SS-49
SHEET NO.
1083
TOTAL SHTS.
1256

PANEL DESIGNATION	DWG. NO. (SS-)	QUANTITY	LEGEND	SIZE			COLOR		BORDER		ARROW	SHIELD	REMARKS
				AREA (SF)	WIDTH	HEIGHT	LEGEND	BCKGRND	WIDTH	RADIUS			
GM-9	21	1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -5-W (2) CLEARVIEWHWY -4-W
				240	20'-0"	12'-0"	W	G	2"	12"	-	SR71 36" x 36"	
GM-10	25	1		23.75	9'-6"	2'-6"	W	G	2"	3"	-	-	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -5-W (1) CLEARVIEWHWY -4-W
				240	20'-0"	12'-0"	W	G	2"	12"	-	SR71 36" x 36"	
GM-12	32	1		221	17'-0"	13'-0"	W	G	2"	12"	FH LT & UP	SR 71 24" x 24" TOLL 36" x 12" US 301 30" x 24"	EXTRUDED ALUMINUM (1) CLEARVIEWHWY -5-W (2) CLEARVIEWHWY -4-W

LEGEND & BACKGROUND COLORS: B=BLACK, BLU=BLUE, G=GREEN, R=RED, W=WHITE/SILVER, Y=YELLOW, FY=FLUORESCENT YELLOW, P=PURPLE, LT=LEFT, RT=RIGHT, FH=FISH-HOOK ARROW PER DE-MUTCD

LAST REVISED: 5/5/2009 P:\CADD\260049040 US301\CIVIL\PLANS\2A\CP\AET\SS-50.DGN

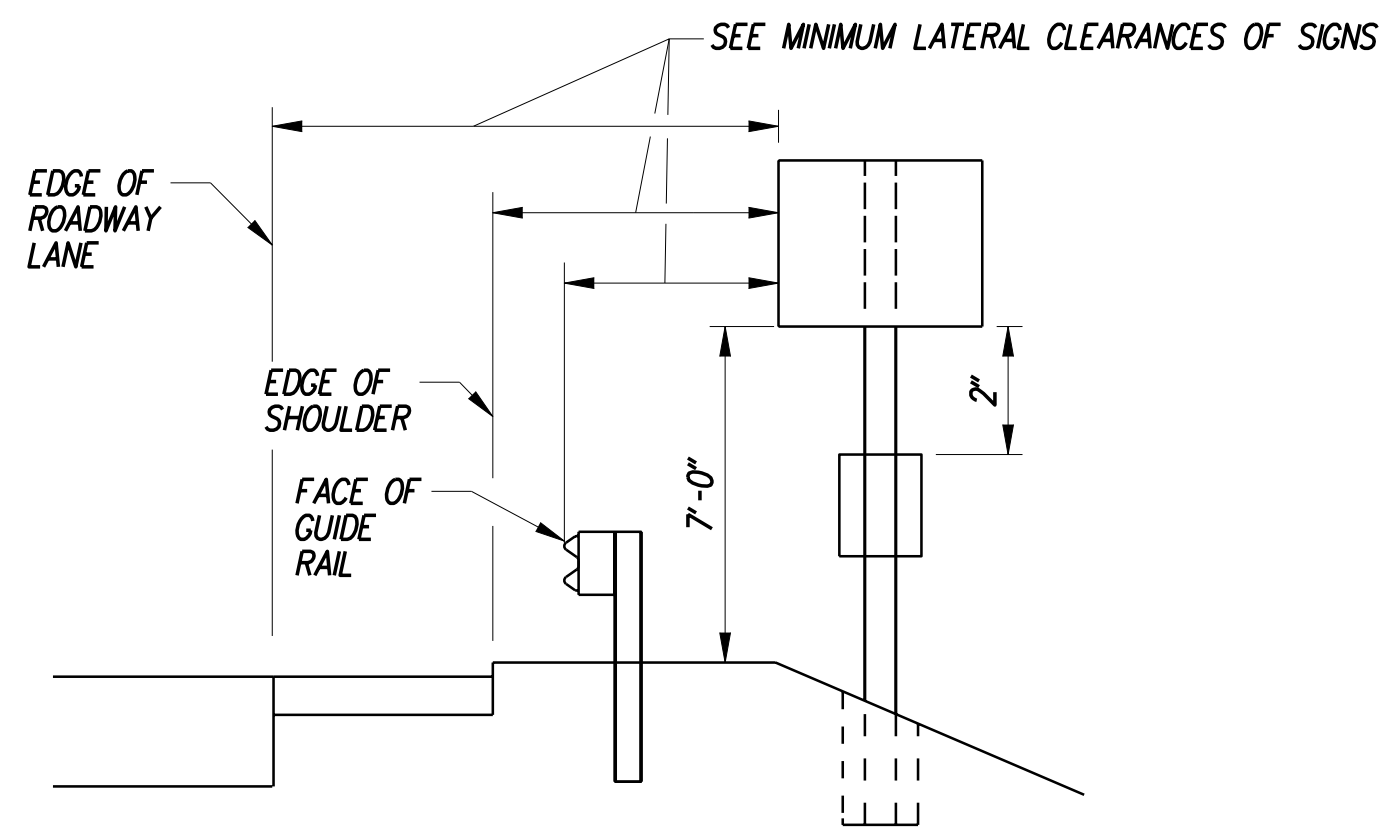
	ADDENDUMS / REVISIONS	SCALE AS SHOWN	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	SIGN DETAILS	SS-50	
				T200911303			SHEET NO.	1084
				COUNTY	DESIGNED BY: DB JW		TOTAL SHTS.	1256
				NEW CASTLE	CHECKED BY: SH SF			

PANEL DESIGNATION	DWG. NO. (SS-)	QUANTITY	LEGEND	SIZE		COLOR		BORDER		ARROW	SHIELD	REMARKS
				AREA (SF)	WIDTH	HEIGHT	LEGEND	BCKGRND	WIDTH			
GM-13	32	1		228	19'-0"	12'-0"	W	G	2"	12"	FH LT & UP	TOLL 36" x 12" US 301 30" x 24" SR 71 24" x 24" EXTRUDED ALUMINUM (1) CLEARVIEWHWY -5-W (2) CLEARVIEWHWY -4-W
GM-14	32	1		128	16'-0"	8'-0"	W	G	2"	12"	FH LT	TOLL 36" x 12" US 301 30" x 24" EXTRUDED ALUMINUM (1) CLEARVIEWHWY -5-W (2) CLEARVIEWHWY -4-W
GM-20	33	1		204	17'-0"	12'-0"	W	G	2"	12"	FH UP & RT	US 301 30" x 24" US 301 30" x 24" EXTRUDED ALUMINUM (1) CLEARVIEWHWY -5-W (2) CLEARVIEWHWY -4-W

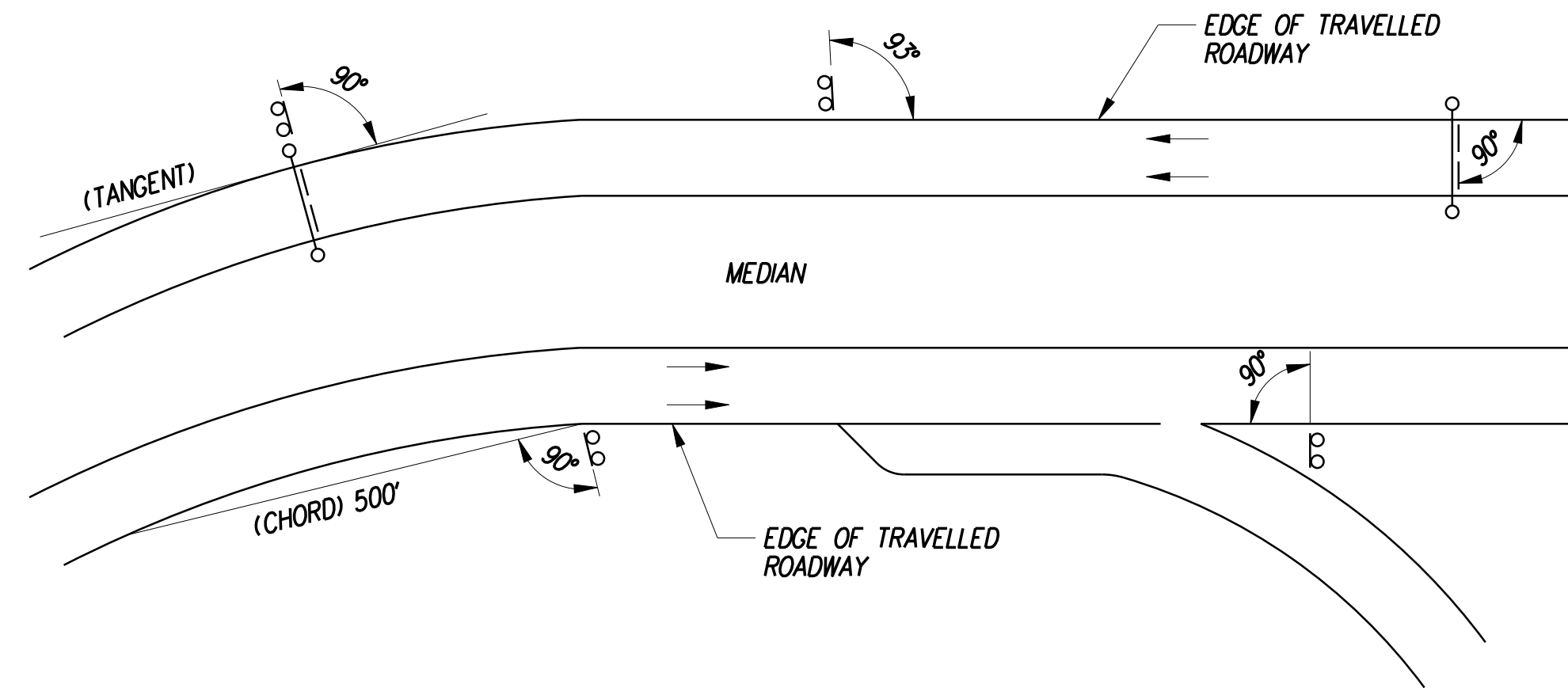
LEGEND & BACKGROUND COLORS: B=BLACK, BLU=BLUE, G=GREEN, R=RED, W=WHITE/SILVER, Y=YELLOW, FY=FLUORESCENT YELLOW, P=PURPLE, LT=LEFT, RT=RIGHT, FH=FISH-HOOK ARROW PER DE-MUTCD

LAST REVISED: 5/5/2009 P:\CADD\260049040 US301\CIVIL\PLANS\2A\CPV\LET\SS-51.DGN

	ADDENDUMS / REVISIONS	SCALE AS SHOWN	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	SIGN DETAILS	SS-51	
				T200911303			SHEET NO.	1085
				COUNTY	DESIGNED BY: DB JW		TOTAL SHTS.	1256
				NEW CASTLE	CHECKED BY: SH SF			



STANDARD SIGN VERTICAL AND LATERAL CLEARANCE DETAIL
N.T.S.



ORIENTATION OF SIGN FACES
N.T.S.



DETAIL	DIMENSIONS (INCHES)			AREA	WIDTH	HEIGHT
	A	B	C			
E-ZPASS-H	4-1/2	15	3/4	16.5 SF	99	24
E-ZPASS-K	4-1/2	21	3/4	21.1875 SF	130-1/2	30

FOR EZPASS LOGO - REFER TO MCTA-09.01 GRID.

E-Z PASS LOGO DETAIL

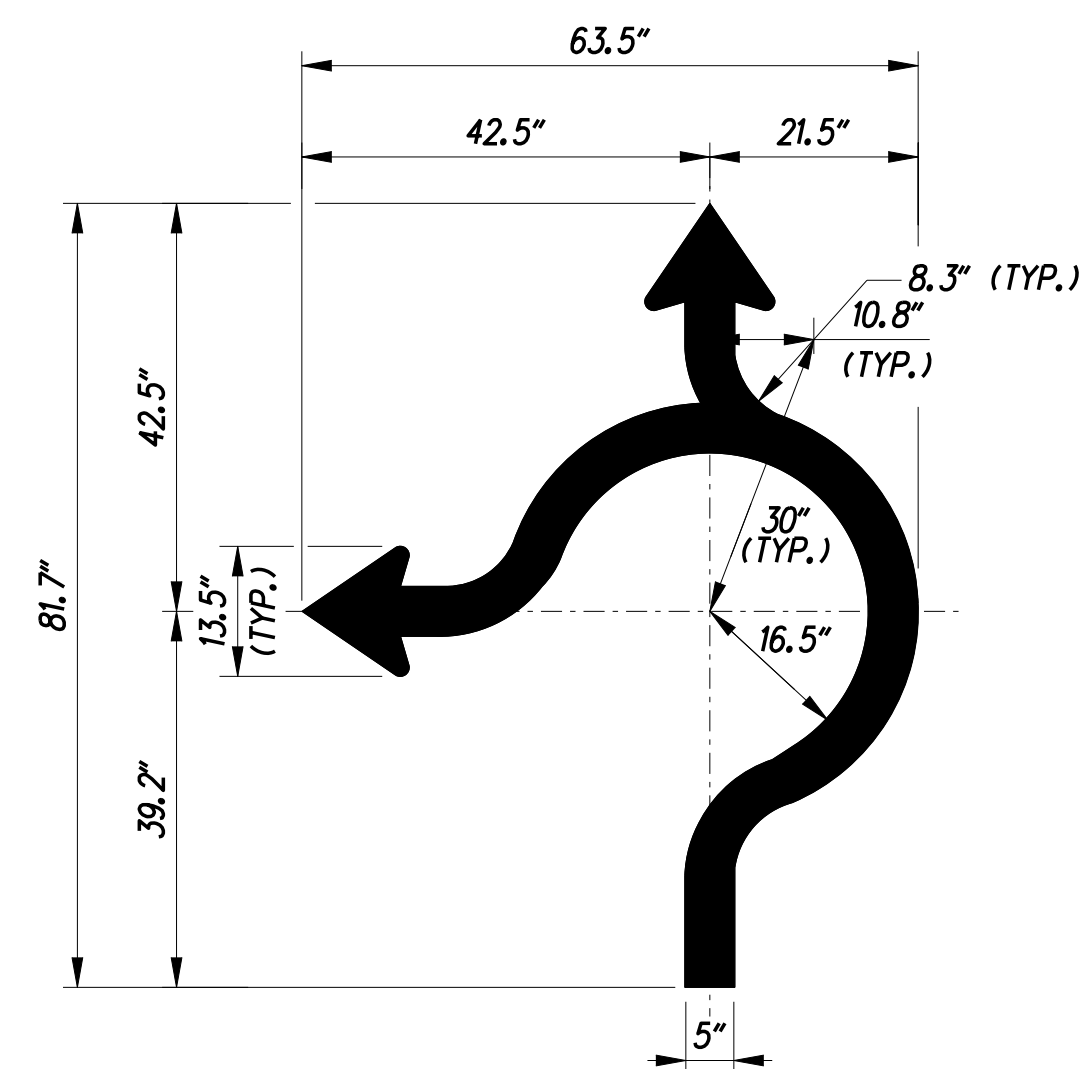
MINIMUM LATERAL CLEARANCE OF SIGNS

- 1 = EDGE OF SIGN 6' FROM FACE OF W-BEAM TRAFFIC BARRIER
- 2 = EDGE OF SIGN 6' PREFERABLE MIN (2' ABSOLUTE MIN. FROM FACE OF CURB
- 3 = EDGE OF SIGN 6' FROM EDGE OF SHOULDER
- 4 = EDGE OF SIGN 6' PREFERABLE MIN. (2' ABSOLUTE MIN.) FROM EACH EDGE OF SHOULDER IN MEDIAN

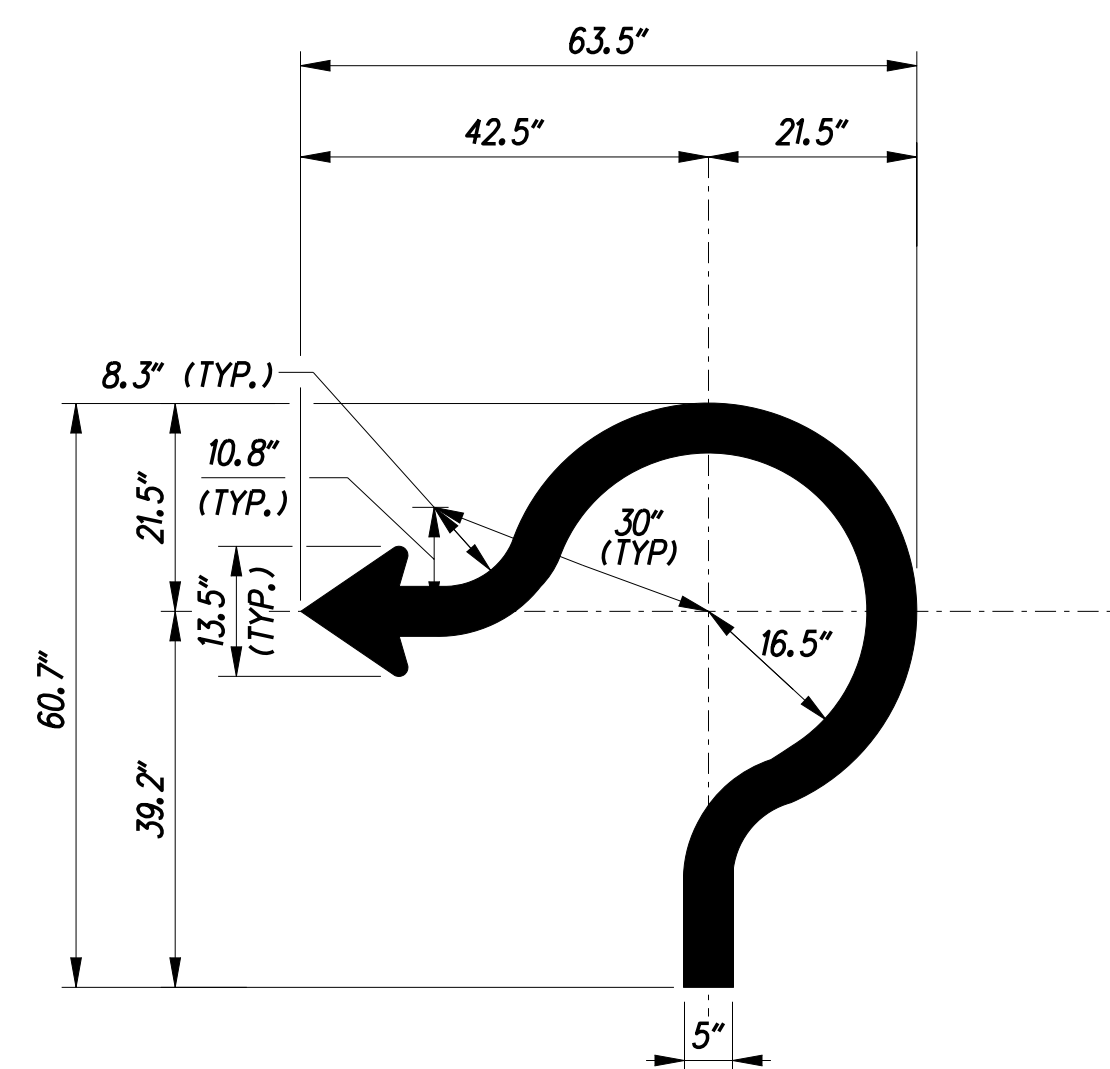
NOTE: ALL SUPPORTS WITHIN THE CLEAR ZONE SHALL BE BREAKAWAY UNLESS PROTECTED.

ROADSIDE SIGNS:

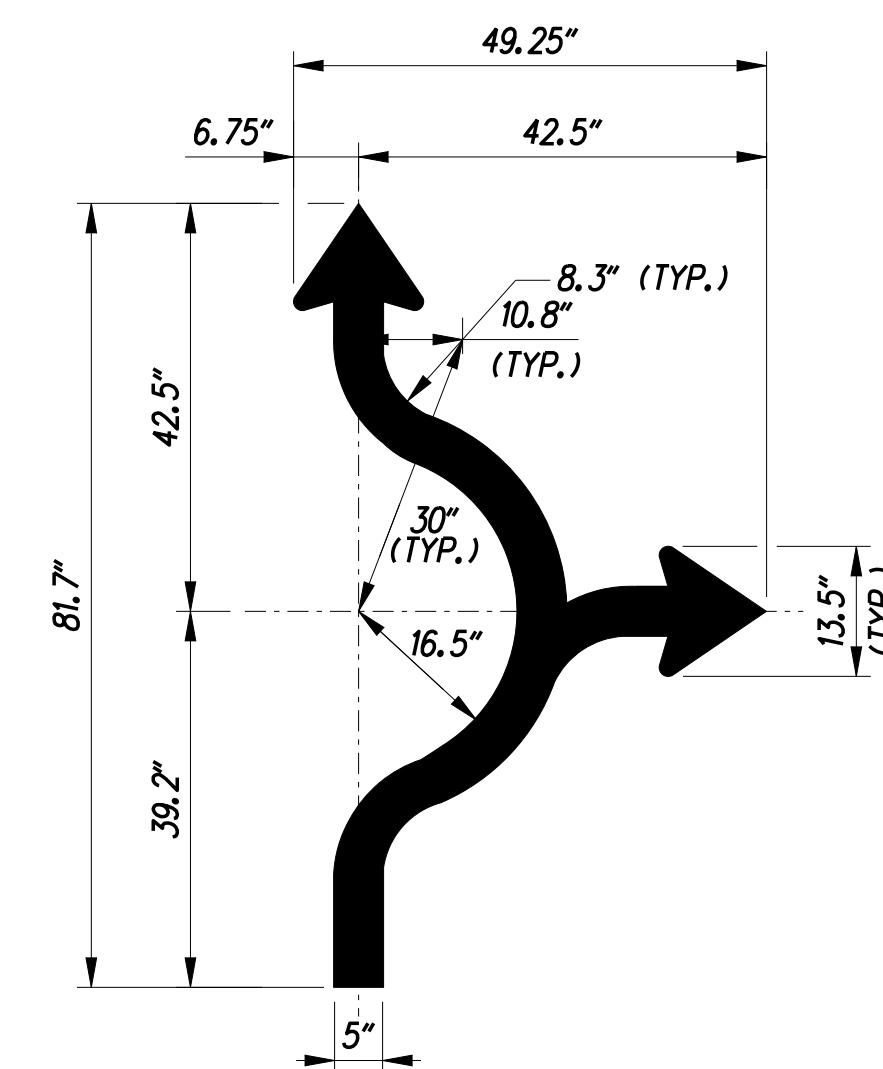
1. VERTICAL ALIGNMENT POSITION PANEL SO FACE IS PLUMB.
2. HORIZONTAL ALIGNMENT (SEE DIAGRAM ABOVE)
 - A.) ON STRAIGHT ROADWAY SECTIONS, ANGLE OF SIGN FACE TO ROADWAY SHALL BE 93° TO EDGE OF ROAD.
 - B.) ON THE INSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL MAKES AN ANGLE OF 90° WITH A CHORD BETWEEN A POINT ON NEAR EDGE OF PAVEMENT AT SIGN LOCATION AND A POINT ON EDGE OF PAVEMENT 500' IN ADVANCE OF SIGN.
 - C.) ON THE OUTSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT THE SIGN LOCATION.
 - D.) ANGLE OF SIGNS AT GORES AND RAMP SEPARATIONS SHALL BE 90° TO EDGE OF MAINLINE ROADWAY.



CIRCULAR INTERSECTION ARROW DETAIL, - GM-12 & GM-13
N.T.S.



CIRCULAR INTERSECTION ARROW DETAIL, GM-14
N.T.S.



CIRCULAR INTERSECTION ARROW DETAIL, GM-20
N.T.S.

LAST REVISED: 5/5/2009
G:\60049040\US50\CIVIL\PLANS\2A\CP\SS-52.DGN

GROUND MOUNTED SIGN SUPPORT TABLE

SIGN NO.	SHEET NO.	BASELINE	STATION	SIDE	OFFSET FROM EDGE OF LANE	PANEL WIDTH W (ft)	PANEL HEIGHT H (ft)	NO. OF POSTS	L1 (FT)	L2 (FT)	L3 (FT)	L4 (FT)	REMARKS**	DELDOT Provided STANDAR D SIGN & POSTS	BOS EL.	*** MAX. POST HEIGHT "L"	CHANNEL BAR POST LENGTH "B"	CHANNEL BAR POST SIZE (LB/FT)/ I-BEAM SIZE	LENGTH POST 1 (FT)	LENGTH POST 2 (FT)	LENGTH POST 3 (FT)	FOUND ATION TYPE	FOOTING DIA (INCHES)	FOOTING LENGTH (FT)	TOP OF FOOTING P1 ELEV	TOP OF FOOTING P2 ELEV	TOP OF FOOTING P3 ELEV
GM-5	SS-10	US 301	330+50.00	RT	39	14.0	17.0	2	2.80	8.40	2.80	NA	I-BEAM		78.62	10.30	NA	W18X35	10.30	7.50	0	C	36	11	68.32	71.12	NA
GM-6	SS-10	US 301	336+42.00	LT	16	19.0	15.0	3	2.21	7.54	7.54	2.21	I-BEAM*		77.03	10.12	NA	W12X26	8.86	9.94	10.12	P1=C P2=A P3=A	36	9	68.17	67.09	66.91
GM-7	SS-15	US 301	370+11.00	RT	39	14.0	17.0	2	2.80	8.40	2.80	NA	I-BEAM		81.54	10.30	NA	W18X35	10.30	7.50	0	C	36	11	71.24	74.04	NA
GM-8	SS-14	US 301	362+82.00	LT	40	19.0	15.0	3	2.19	7.56	7.56	2.19	I-BEAM *		81.20	11.91	NA	W14X30	8.29	9.39	11.91	P1=A P2=C P3=C	36	10	72.91	71.81	69.29
GM-9	SS-21	US 301	402+15.00	RT	32	20.0	12.0	2	4.00	12.00	4.00	NA	I-BEAM		79.23	10.44	NA	W14X30	10.44	9.05	0	P1=C P2=B	36	10	68.79	70.18	NA
GM-10	SS-25	US 301	427+08.00	RT	38	20.0	12.0	2	4.00	12.00	4.00	NA	I-BEAM		84.07	11.48	NA	W18X40	11.48	7.50	0	C	36	11	72.59	76.57	NA
GM-12	SS-32	CONNECTOR RD.	15+25.00	RT	23	17.0	13.0	2	3.40	10.20	3.40	NA	I-BEAM		80.27	7.63	NA	W10x26	7.50	7.63	0	A	36	8.5	72.77	72.64	NA
GM-13	SS-32	RAMP L	91+75.00	RT	12	19.0	12.0	2	3.80	11.40	3.80	NA	I-BEAM		79.88	8.39	NA	W12x26	8.19	8.39	0	A	36	9	71.69	71.49	NA
GM-14	SS-32	CONNECTOR RD.	15+00.00	LT	20	16.0	8.0	2	3.20	9.60	3.20	NA	I-BEAM		81.08	7.57	NA	W8x18	7.50	7.57	0	A	30	7.5	73.58	73.51	NA
GM-20	SS-33	CONNECTOR RD.	20+00.00	LT	20	17.0	12.0	2	3.40	10.20	3.40	NA	I-BEAM		80.92	12.60	NA	W18X40	12.60	10.13	0	A	36	10	68.32	70.79	NA
GM-21	SS-06	RAMP C	12+00.00	RT	14	14.0	5.5	2	2.80	8.40	2.80	NA	I-BEAM		74.13	12.83	NA	W8x18	10.02	12.83	0	C	30	7.5	64.11	61.30	NA
GM-22	SS-03	RAMP F	43+00.00	RT	14	14.0	5.5	2	2.80	8.40	2.80	NA	I-BEAM		57.95	10.36	NA	W8x18	8.96	10.36	0	C	30	7.5	65.17	63.77	NA
GM-23	SS-32	RAMP I	26+50.00	RT	14	14.0	5.5	2	2.80	8.40	2.80	NA	I-BEAM		80.57	8.37	NA	W8x18	8.03	8.37	0	A	30	7.5	66.10	65.76	NA
GM-24	SS-37	RAMP L	85+00.00	RT	14	14.0	5.5	2	2.80	8.40	2.80	NA	I-BEAM		93.18	11.86	NA	W8x18	9.01	11.86	0	C	30	7.5	65.12	62.27	NA
GM-25	SS-06	RAMP C	12+00.00	LT	12	14.0	5.5	2	2.80	8.40	2.80	NA	I-BEAM		75.00	12.56	NA	W8x18	9.76	12.56	0	C	30	7.5	64.37	61.57	NA

NOTES:
 1. *POST SPACING ADJUSTED TO MAINTAIN 7.0' MIN. BETWEEN POSTS.
 2. **REFER TO SIGN DETAIL SHEETS FOR INSTALLATION DETAILS FOR CHANNEL BAR POSTS. ALL CHANNEL BAR POSTS SUPPLIED BY DELDOT.
 3. *** LONGEST SUPPORT LENGTH FROM GROUND THAT GOVERNS DESIGN.
 4. EOS = EDGE OF SHOULDER
 5. FOGR = FACE OF GUIDERAIL
 6. ALL SIGNS ARE BREAK-A-WAY. I-BEAM POST DESIGN IS PER MARYLAND STATE HIGHWAY ADMINISTRATION TRAFFIC CONTROL DEVICES DESIGN MANUAL APPENDIX A-7 AS APPROVED FOR USE BY DELDOT.

VERTICAL CLEARANCE OF SIGNS

A. 7'-6" MINIMUM FOR BREAKAWAY SUPPORTS.
 B. 2'-0" MINIMUM
 C. 7'-6" MINIMUM & PREFERABLE. THIS DIMENSION IS TO BE INCREASED ONLY WHEN REQUIRED TO MEET A = 7'-6" FOR BREAKAWAY OR A (MIN.) = 5'-6" FOR NON-BREAKAWAY AND B (MIN) 2'-0"

ALL DIMENSIONS ARE TO BOTTOM OF SIGN

LATERAL CLEARANCE OF SIGNS

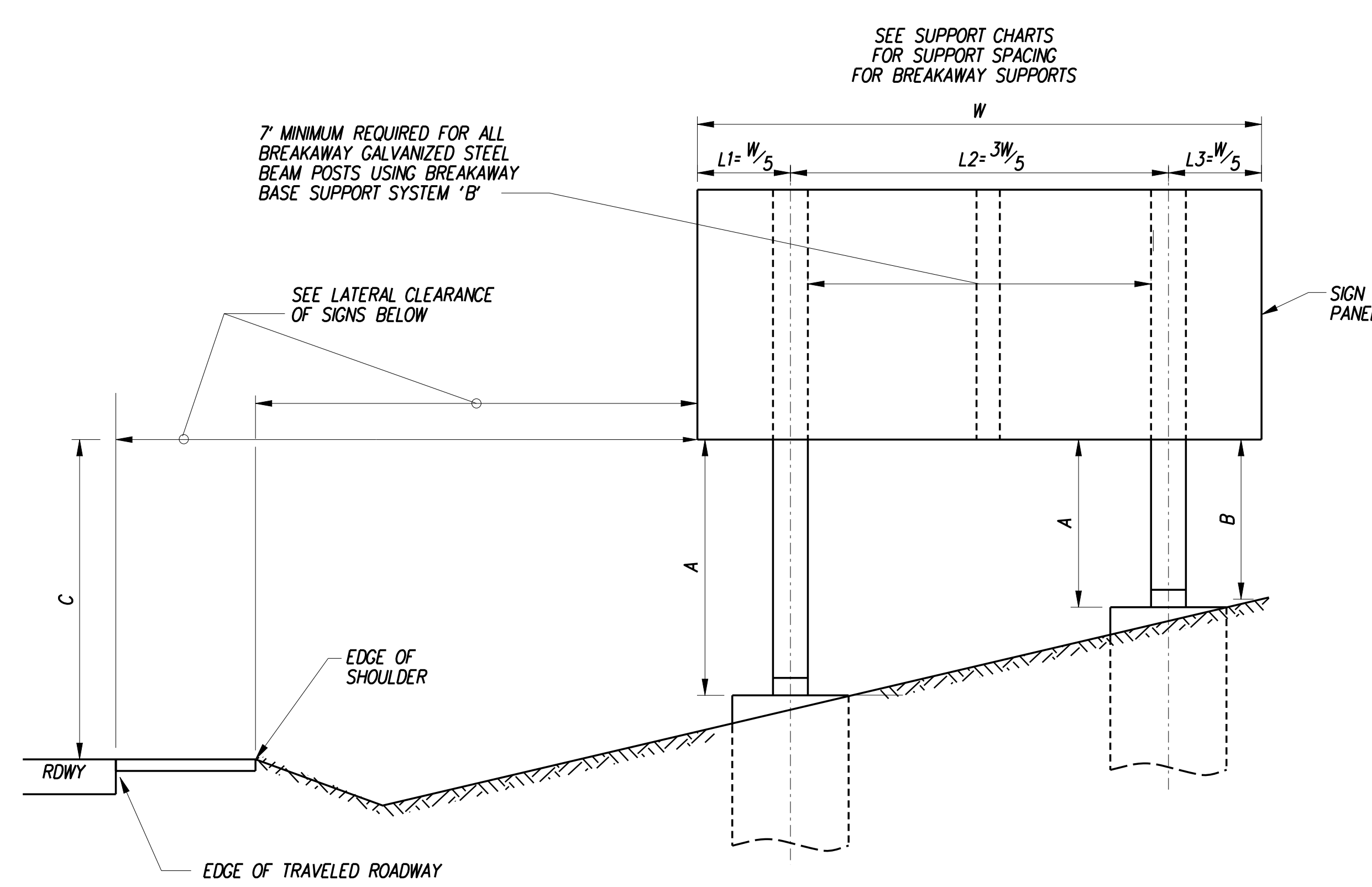
SEE SUPPORT CHARTS FOR LATERAL CLEARANCE OF SIGNS.

DESIGN GUIDELINES BASED ON THE FOLLOWING:

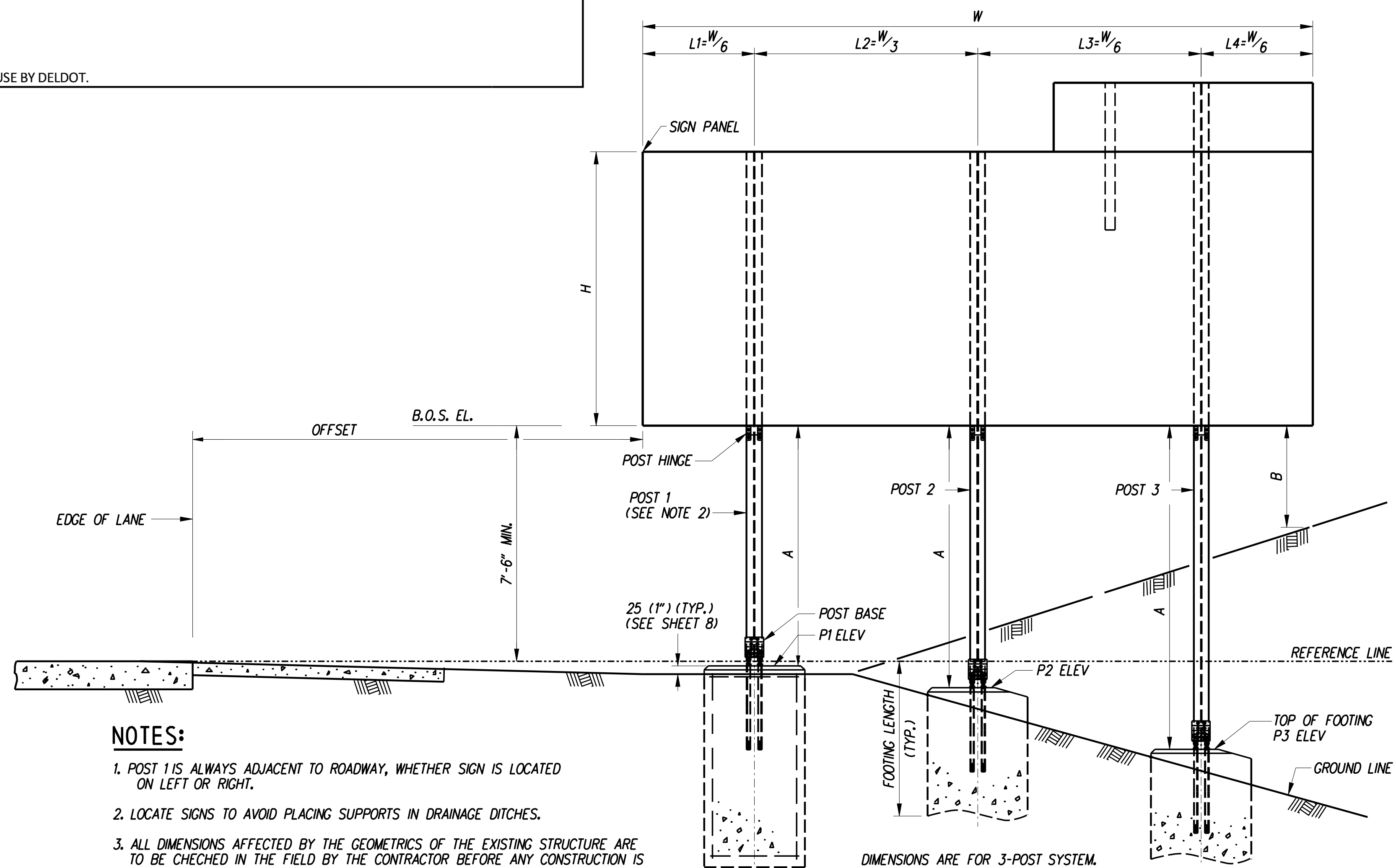
PREFERRED LOCATION IS OUTSIDE THE CLEAR ZONE. IF THIS CONDITION CAN NOT BE MET, THE SIGN SHOULD BE PLACED AS FAR FROM THE ROADWAY AS POSSIBLE

MINIMUM LATERAL CLEARANCES FOR SIGNS ARE:

- 1 = EDGE OF SIGN 6' FROM FACE OF W-BEAM TRAFFIC BARRIER
- 2 = EDGE OF SIGN 6' PREFERABLE MIN. (2' ABSOLUTE MIN.) FROM FACE OF CURB
- 3 = EDGE OF SIGN 6' FROM EDGE OF SHOULDER
- 4 = EDGE OF SIGN 6' PREFERABLE MIN. (2' ABSOLUTE MIN.) FROM EACH EDGE OF SHOULDER IN MEDIAN
- 5 = EDGE OF SIGN 6' FROM EACH EDGE OF SHOULDER CENTERED IN GORE AREA



SIGN CLEARANCE
N.T.S.



SIGN ELEVATION
N.T.S.

NOTES:

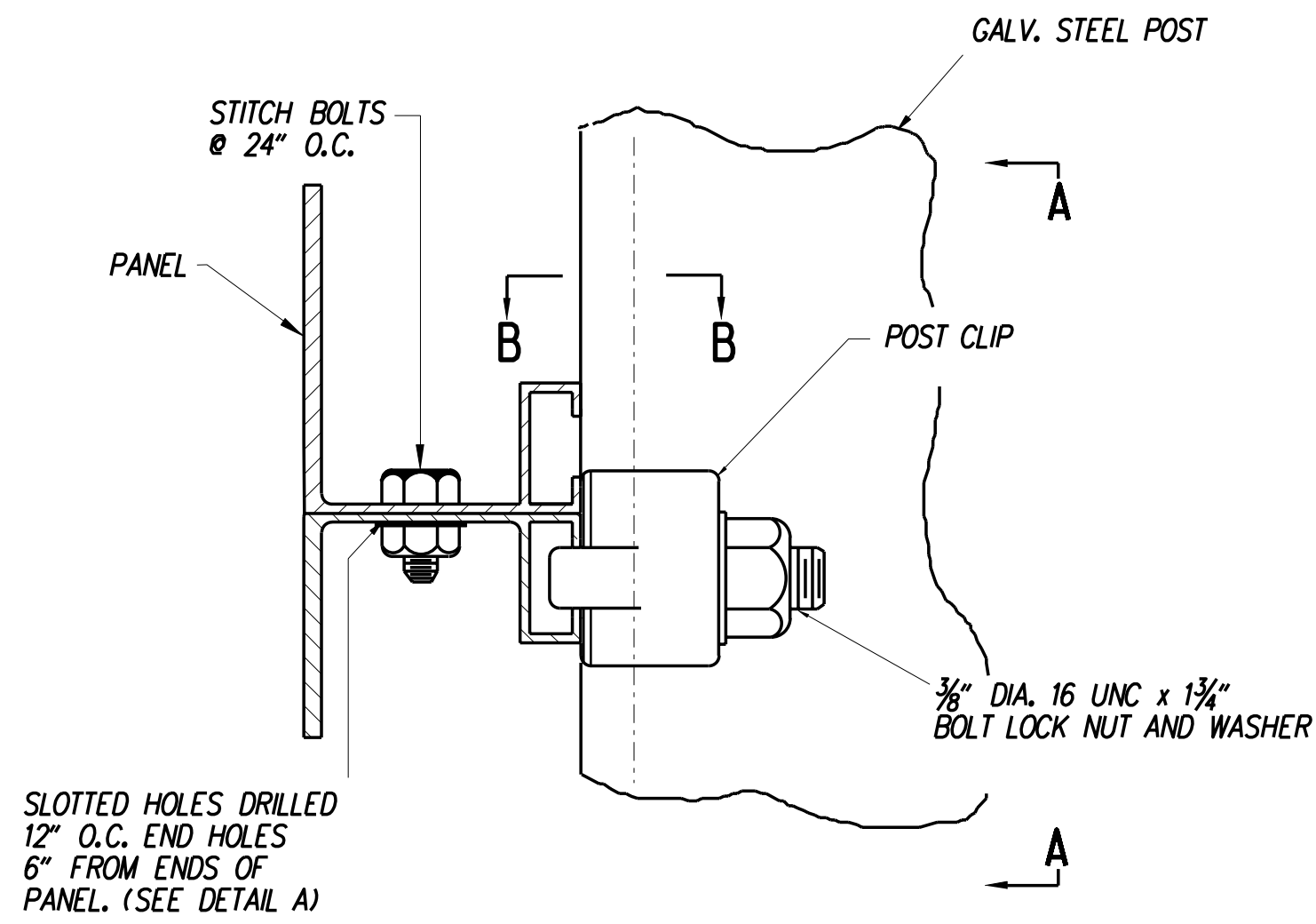
1. POST 1 IS ALWAYS ADJACENT TO ROADWAY, WHETHER SIGN IS LOCATED ON LEFT OR RIGHT.
2. LOCATE SIGNS TO AVOID PLACING SUPPORTS IN DRAINAGE DITCHES.
3. ALL DIMENSIONS AFFECTED BY THE GEOMETRICS OF THE EXISTING STRUCTURE ARE TO BE CHECKED IN THE FIELD BY THE CONTRACTOR BEFORE ANY CONSTRUCTION IS DONE AND BEFORE ANY STRUCTURAL STEEL IS ORDERED OR FABRICATED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY THE ENGINEER WITH ALL FIELD DIMENSIONS REQUIRED TO CHECK DETAIL DRAWINGS.

LEGEND:

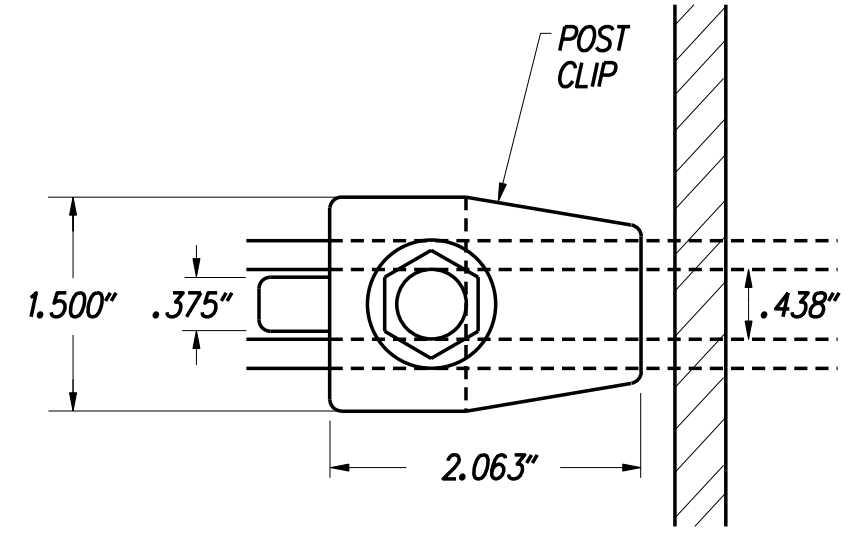
B.O.S. BOTTOM OF SIGN

LAST REVISED: 5/5/2009 G:\60049040\US301\CIVIL\PLANS\2A\CP\SS-53.DGN

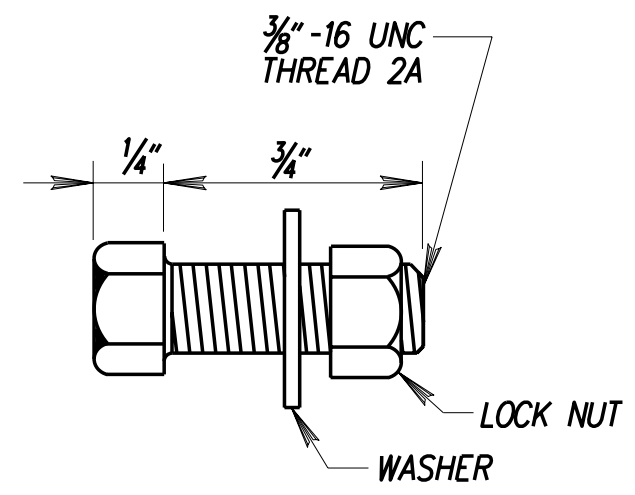
	ADDENDUMS / REVISIONS		<p align="center">US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD</p>	CONTRACT	BRIDGE NO.	<p align="center">SIGN DETAILS</p>	SS-53	
				T20091303			SHEET NO.	1087
				COUNTY	DESIGNED BY: DWB JW		TOTAL SHTS.	1256
				NEW CASTLE	CHECKED BY: JF SF			



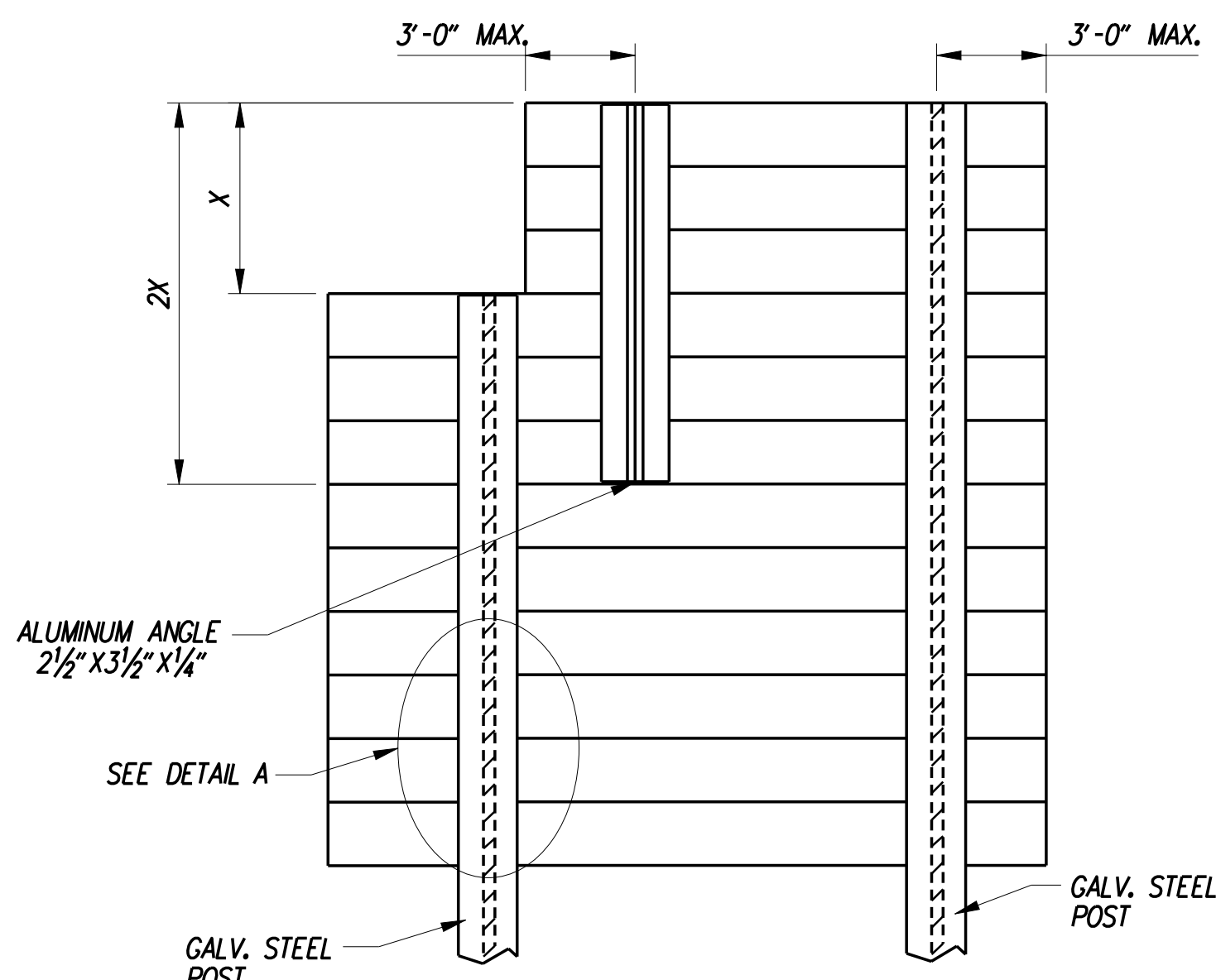
SIGN PANEL ASSEMBLY



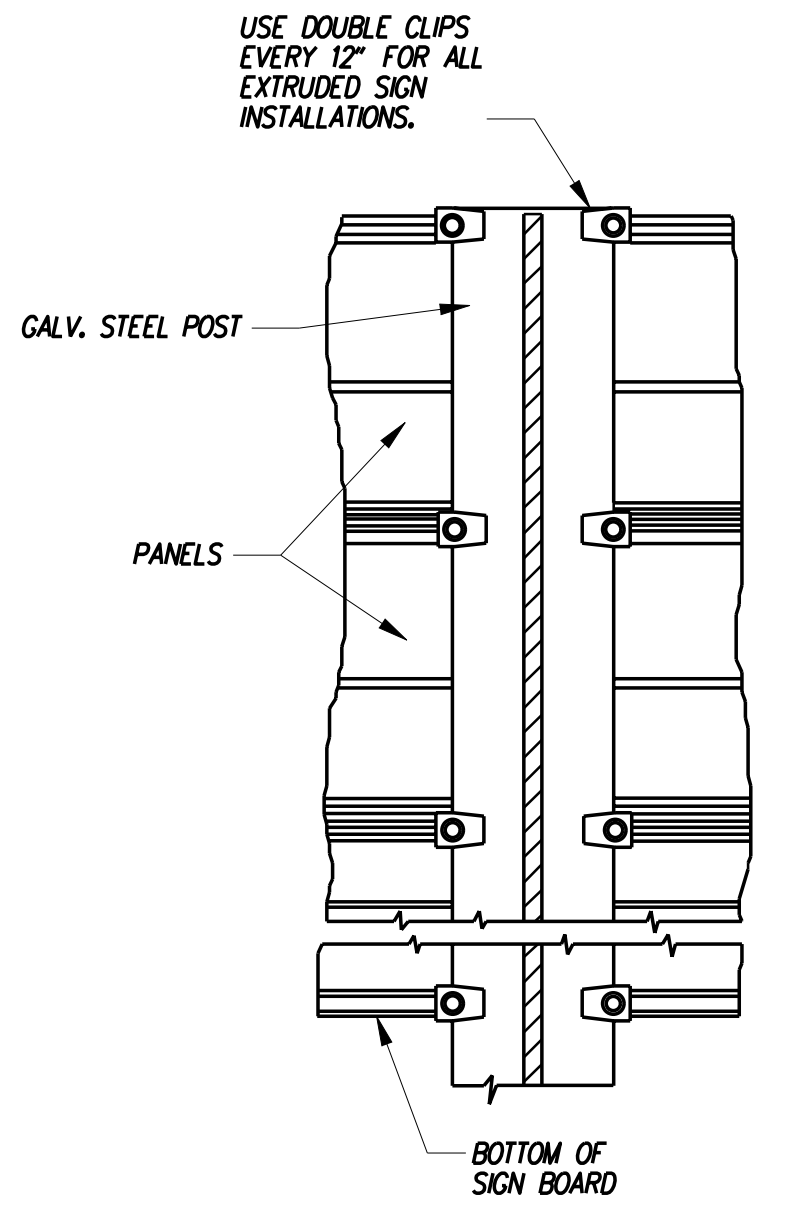
SECTION A-A



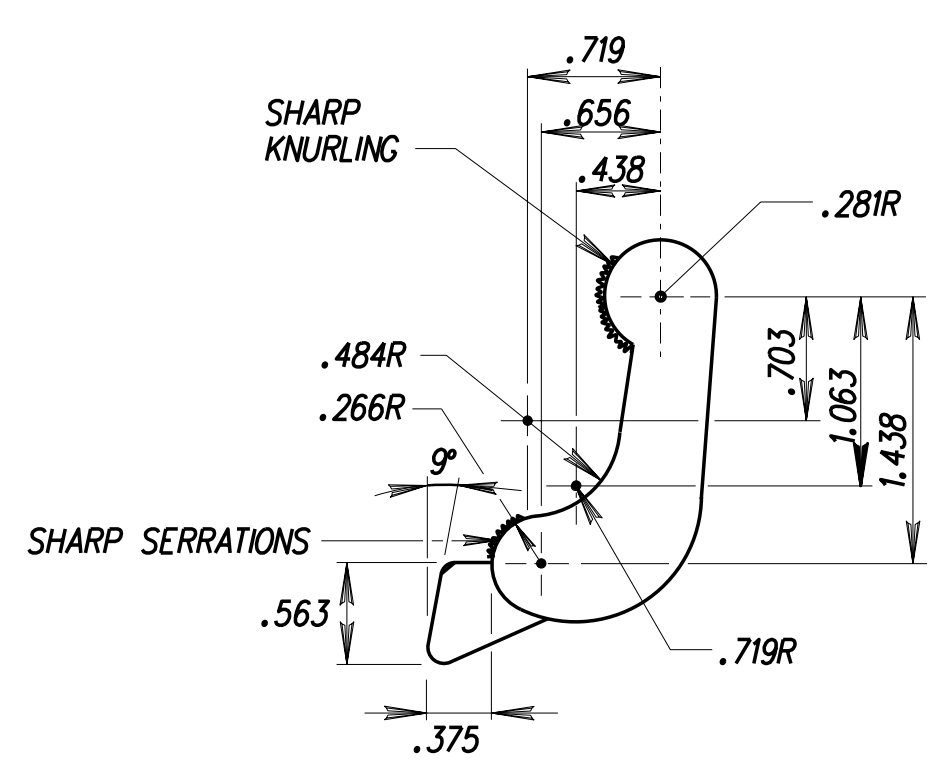
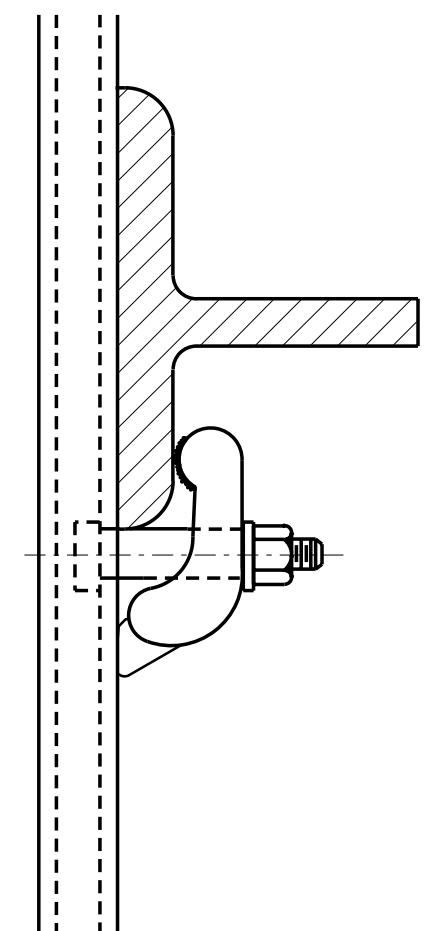
STITCH BOLT (TYP.)



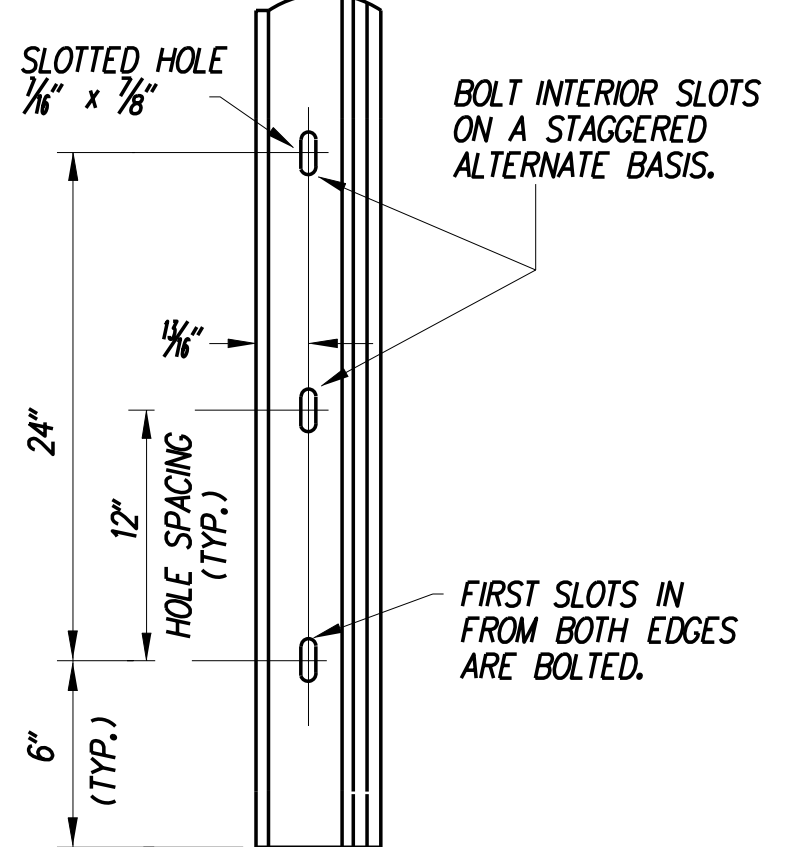
INSTALLATION OF EXIT PANEL TO EXTRUDED SIGN



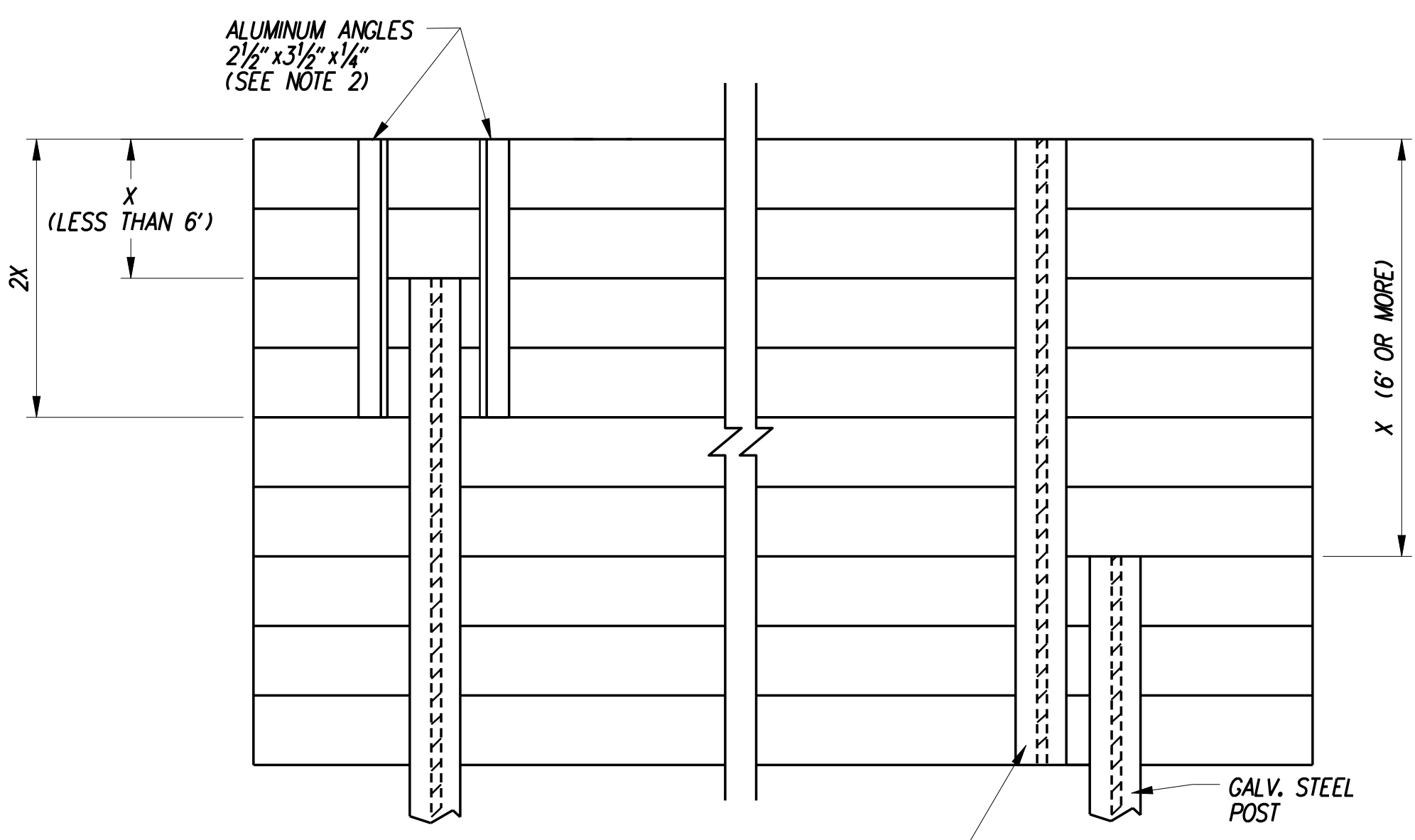
DETAIL A



POST CLIP (TYP.)



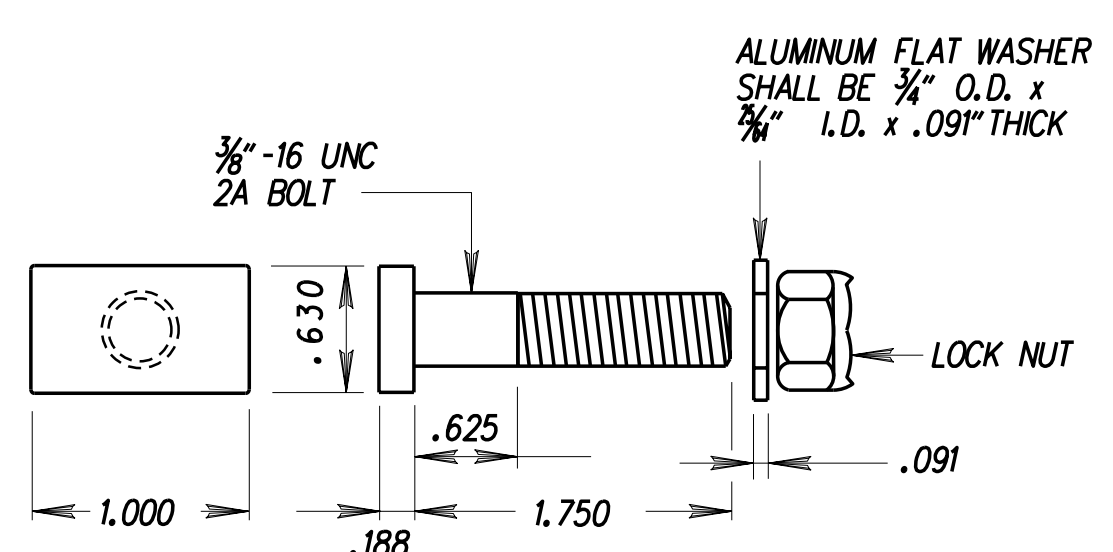
DETAIL A



INSTALLATION OF ADDITIONAL EXTRUDED PANELS TO EXTRUDED SIGN

- NOTES:
1. VERTICAL SUPPORTS ARE TO BE CONTINUOUS TO ENTIRE HEIGHT OF SIGN, INCLUDING EXIT PANEL WHERE APPLICABLE.
 2. ON MODIFICATIONS WHERE X IS LESS THAN 6', NON-CONTINUOUS SUPPORTS WILL BE PERMITTED. TOTAL LENGTH OF DOUBLE ANGLES SHALL BE 2X AS NOTED ABOVE.
 3. ON MODIFICATIONS WHERE X IS 6' OR MORE, NON-CONTINUOUS SUPPORTS WILL BE PERMITTED. SPICED SECTIONS SHALL HAVE A W6 x 9 OR EQUAL SECTION ATTACHED TO FULL HEIGHT OF SIGN.
 4. ALL SUPPORTS (INCLUDING ANGLES) SHALL BE POST CLIPPED AT 12" INTERVALS.

EXTRUDED ALUMINUM DETAILS AND VERTICAL SUPPORT ATTACHMENT
N.T.S.



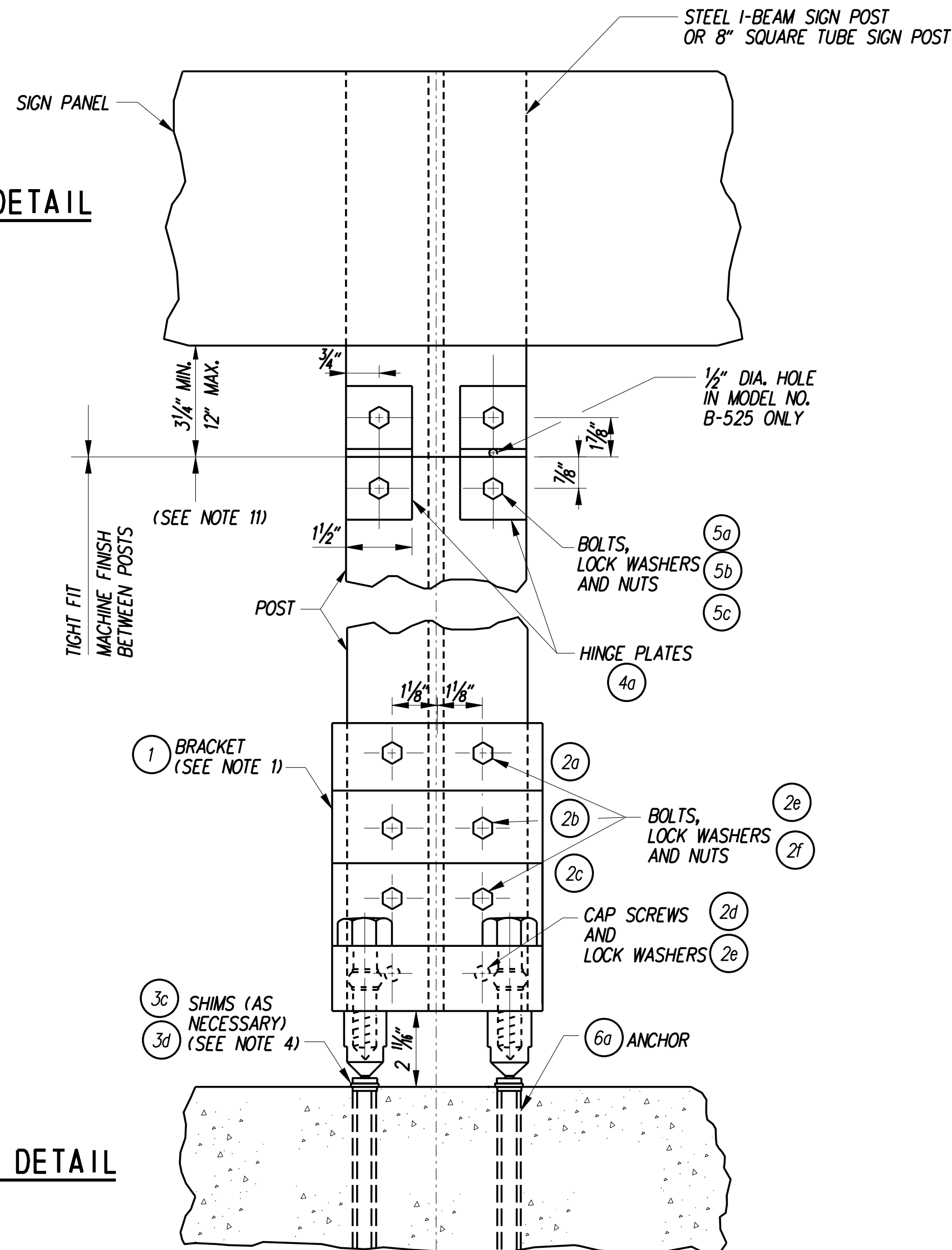
POST CLIP BOLT (TYP.)

- BOLTS B211, ALLOY 2024-T4, 6262-T9 OR 6061-T6
FLAT WASHERS B209, ALLOY 2024-T4
RIVETS ALLOY 5052
NUTS B211, ALLOY 2017-T4
POST CLIPS B108, ALLOY 356-T6

LAST REVISED: 5/5/2009
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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS		<p>US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD</p>	CONTRACT	BRIDGE NO.	<p>SIGN DETAILS</p>	SS-54	
				T20091303			SHEET NO.	1088
				COUNTY	DESIGNED BY: DWB JW		TOTAL SHTS.	1256
				NEW CASTLE	CHECKED BY: JF SF			

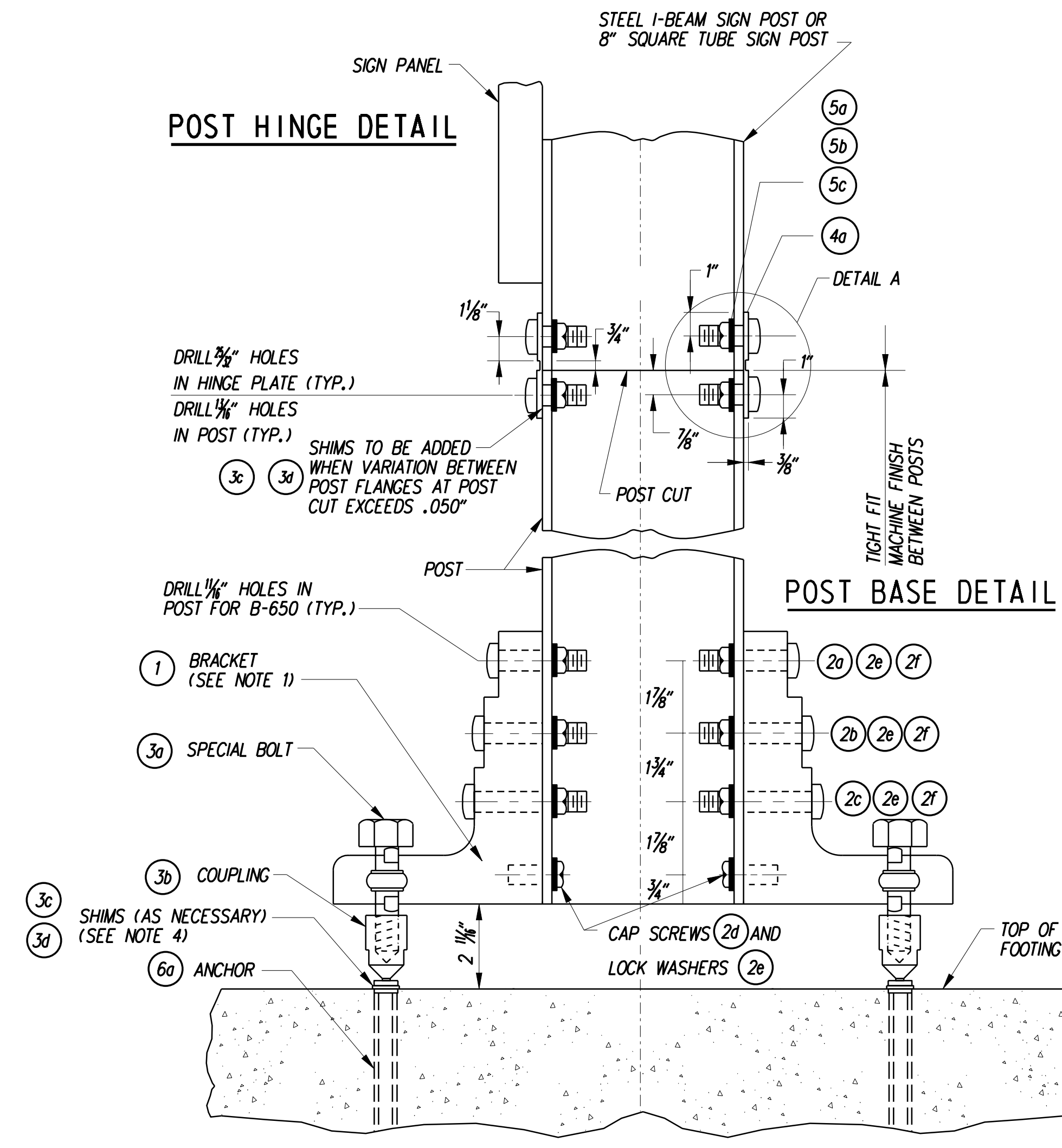
POST HINGE DETAIL



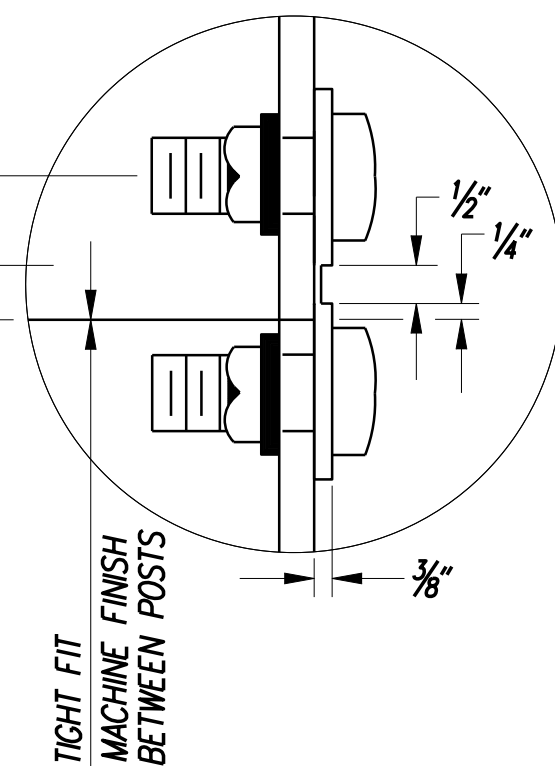
POST BASE DETAIL

BREAKAWAY BASE SUPPORT SYSTEM "B"
FRONT VIEW ASSEMBLY

POST HINGE DETAIL



BREAKAWAY BASE SUPPORT SYSTEM "B"
SIDE VIEW ASSEMBLY



DETAIL A

NOTES:

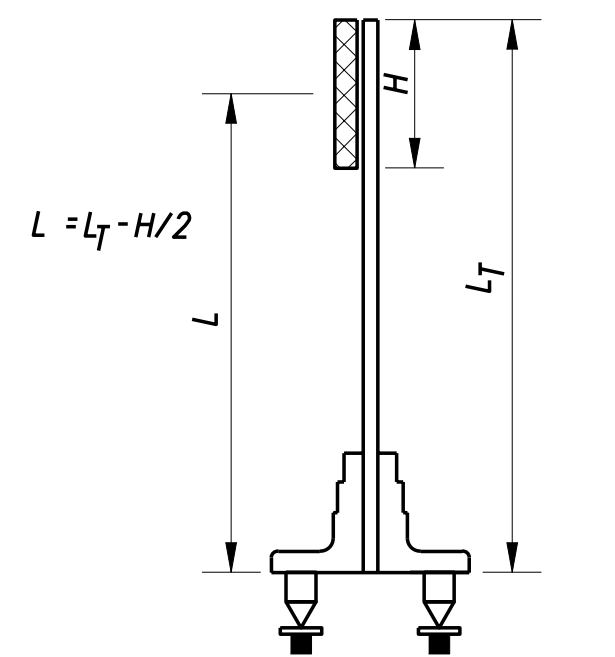
1. THE BRACKET NUMBER IS STAMPED ON THE BRACKET.
2. BOLT THE BRACKETS TO POST, THEN PLACE POST AND CONNECTED BRACKET TO BREAKAWAY COUPLING.
3. ALL BOLTS TO BE TIGHTENED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
4. REFER TO OTHER BREAKAWAY BASE SUPPORT SYSTEM FOR HIGHWAY SIGNS STANDARD PLATES FOR HINGE PLATE, SHIM AND BRACKET DETAILS.
5. REFER TO OTHER BREAKAWAY BASE SUPPORT SYSTEM FOR HIGHWAY SIGNS STANDARD PLATES FOR ANCHOR, BREAKAWAY COUPLING AND COUPLING BOLT DETAILS.
6. W6X9 SIGN POSTS SHALL NOT BE USED WITH BREAKAWAY BASE SUPPORT SYSTEM 'B'.
7. REFER TO OTHER BREAKAWAY BASE SUPPORT SYSTEM FOR HIGHWAY SIGNS STANDARD PLATES FOR ADJUSTMENTS TO CONCRETE FOUNDATIONS TO SUIT VARIOUS GROUND SLOPES.
8. DESIGNATION B-525 IS FOR 6" (LARGER THAN W6X9) AND 8" BEAM SIZES OR 5" AND 6" SQUARE TUBE SIGN POST.
9. DESIGNATION B-650 IS FOR 10", 12", 14", 16", 18" AND 21" BEAM SIZES OR 7" AND 8" SQUARE TUBE SIGN POST.
10. REFER TO OTHER BREAKAWAY BASE SUPPORT SYSTEM FOR HIGHWAY SIGNS STANDARD PLATES FOR MATERIAL PARTS.
11. HINGE PLATES SHALL NOT BE USED WITH SINGLE STEEL SUPPORT INSTALLATIONS FOR SIGNS.
12. A 7" MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN I-BEAMS UTILIZING BREAKAWAY SUPPORT SYSTEM 'B' FOR HIGHWAY SIGNS. THE 7" MINIMUM CLEAR DISTANCE SHALL BE MEASURED FROM INSIDE FLANGE EDGE TO INSIDE FLANGE EDGE, NOT BETWEEN CENTER OF I-BEAMS.

HINGE ASSEMBLY:

1. BUTT UPPER AND LOWER POSTS TOGETHER ON FLAT SURFACE.
2. PLACE HINGE PLATES (4a) ON OUTER FLANGES AND SNUGLY SECURE WITH 3/4" - UNC BOLTS (5a) (5b) AND (5c). DO NOT TIGHTEN.
3. MAKE SURE UPPER AND LOWER POSTS ARE IN ALIGNMENT. THEN TIGHTEN ALL NUTS (5c) TO PROOF LOAD - ONE HALF OF A TURN BEYOND SNUG.

STRUCTURAL SUPPORT NOTES:

1. INSTALLATION MUST MEET AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".
2. ALL HARDWARE SHALL BE HOT DIP GALVANIZED PER A153.
3. FASTENERS, EXCEPT FOR SPECIAL BOLT AND COUPLING, SHALL BE INSTALLED WITH LOCKWASHERS OR LOCKNUTS AND DO NOT HAVE SPECIFIC TORQUE REQUIREMENTS. FASTENERS SHOULD BE MADE AS TIGHT AS POSSIBLE WITH CONVENTIONAL WRENCHES.
4. SQUARE AND LEVEL INDIVIDUAL COMPONENTS TO MINIMIZE NEED FOR SHIMMING.
5. NO MORE THAN TWO SHIMS SHALL BE USED UNDERNEATH ANY ONE COUPLING, NO MORE THAN THREE SHIMS SHALL BE USED UNDERNEATH ANY TWO COUPLINGS.
6. STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED PER A123 FABRICATION.
7. ALL BRACKETS SHALL BE PERMANENTLY LABELED WITH THE APPROPRIATE BRACKET TYPE AND BRACKET SECTION NUMBER.
8. SELECT CORRECT BRACKET NUMBER FROM BRACKET SELECTION TABLE USING THE PROPER 'L' VALUE AS SHOWN IN THE BRACKET DIAGRAM.



BRACKET DIAGRAM

I-BEAM BRACKET SELECTION TABLE

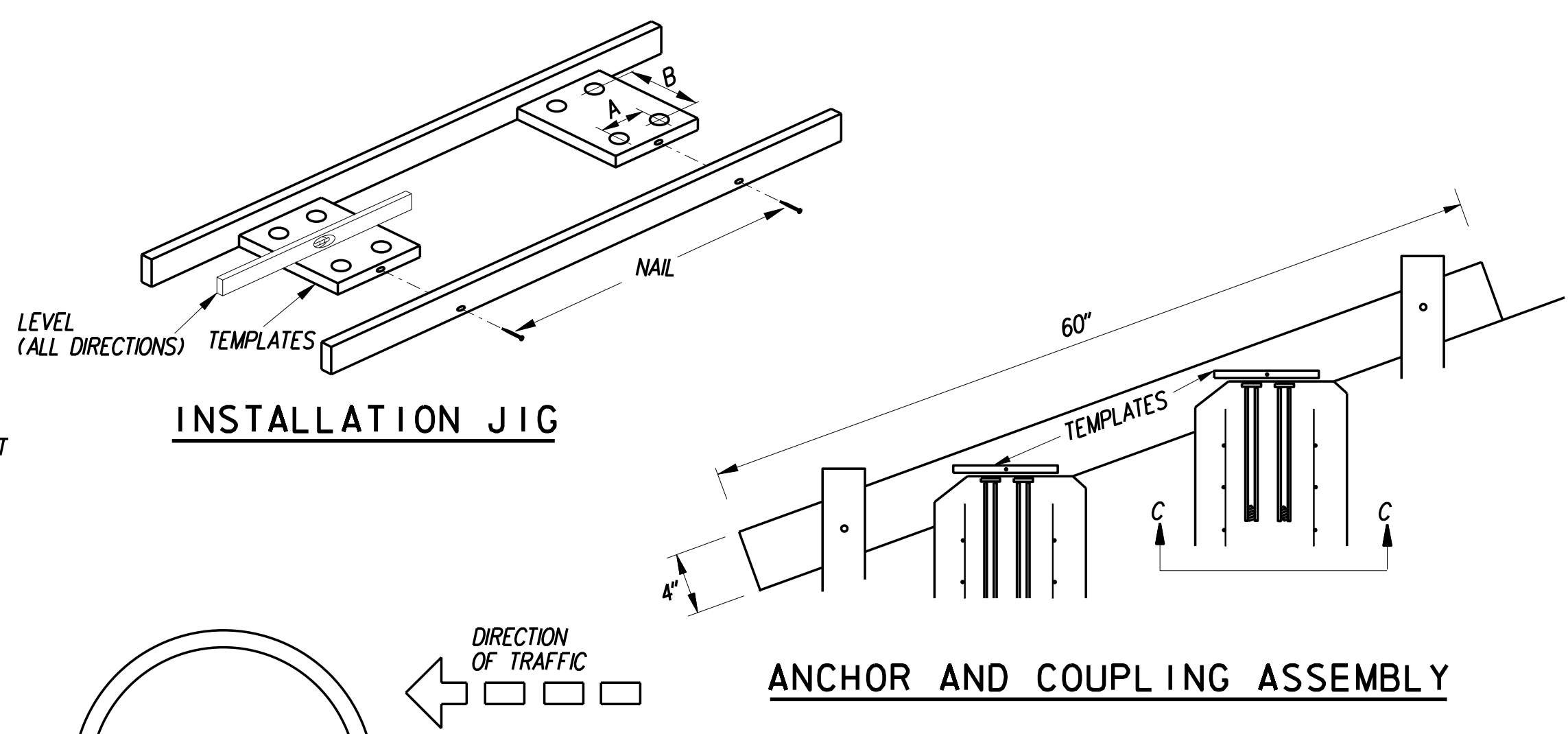
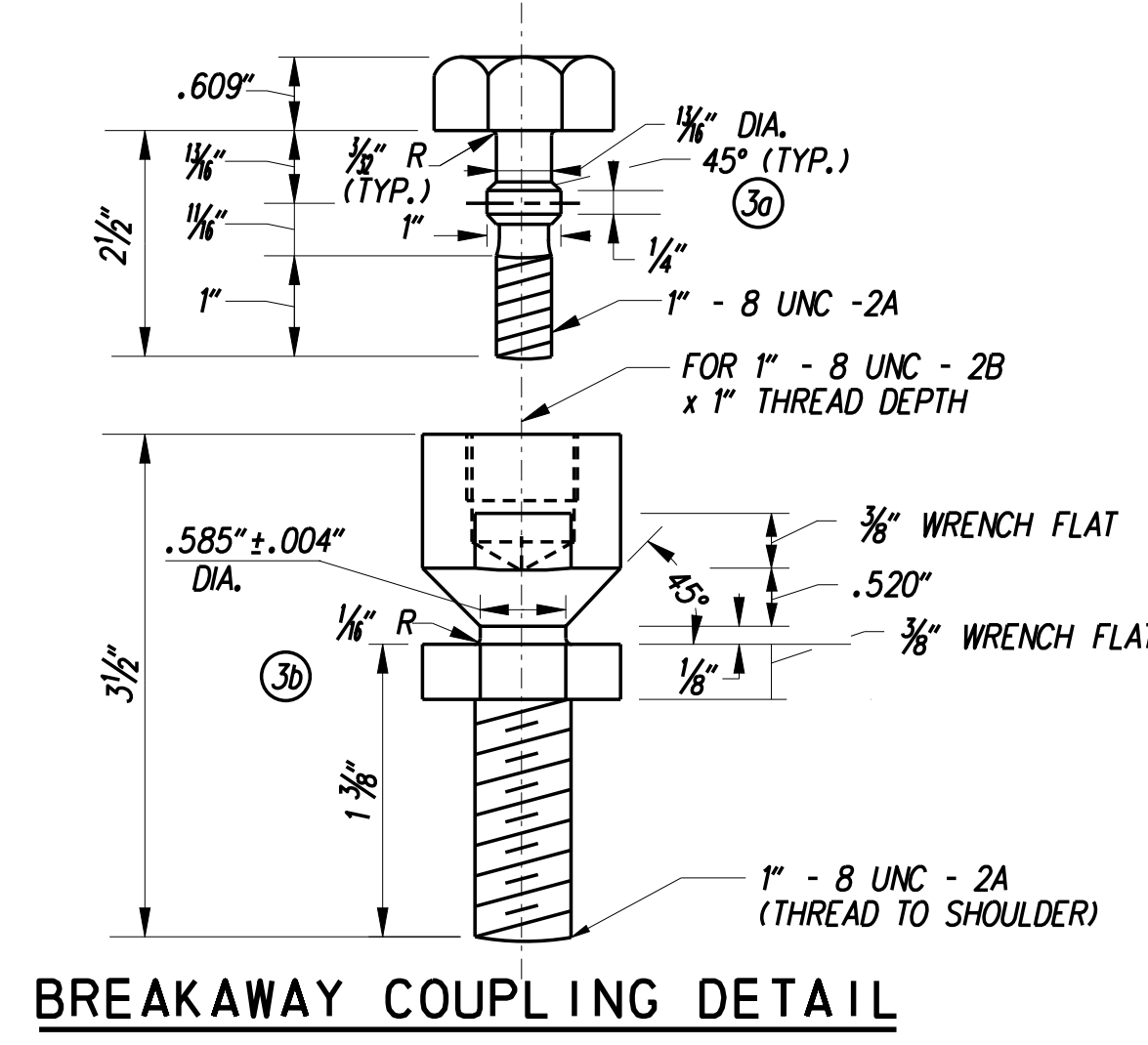
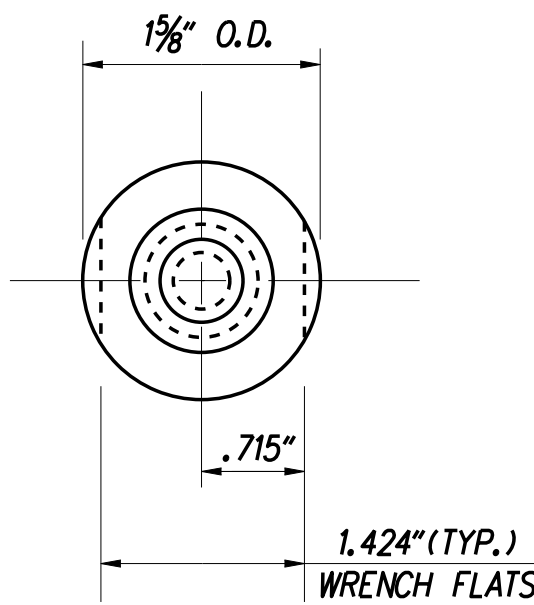
POST WIDTH (IN.)	BRACKET 1		BRACKET 2		BRACKET 3	
	MIN. L (FT.)	MAX. L (FT.)	MIN. L (FT.)	MAX. L (FT.)	MIN. L (FT.)	MAX. L (FT.)
6	12	29	9	12	0	9
8	14	29	10	14	0	10
10	16	29	11	16	0	11
12	18	29	13	18	0	13
14	19	29	14	19	0	14
16	21	29	15	21	0	15
18	23	29	16	23	0	16
21	25	29	18	25	0	18

LAST REVISED: 5/5/2009 G:\60049040-US301\CIVIL\PLANS\2A\CP\SS-55.DGN

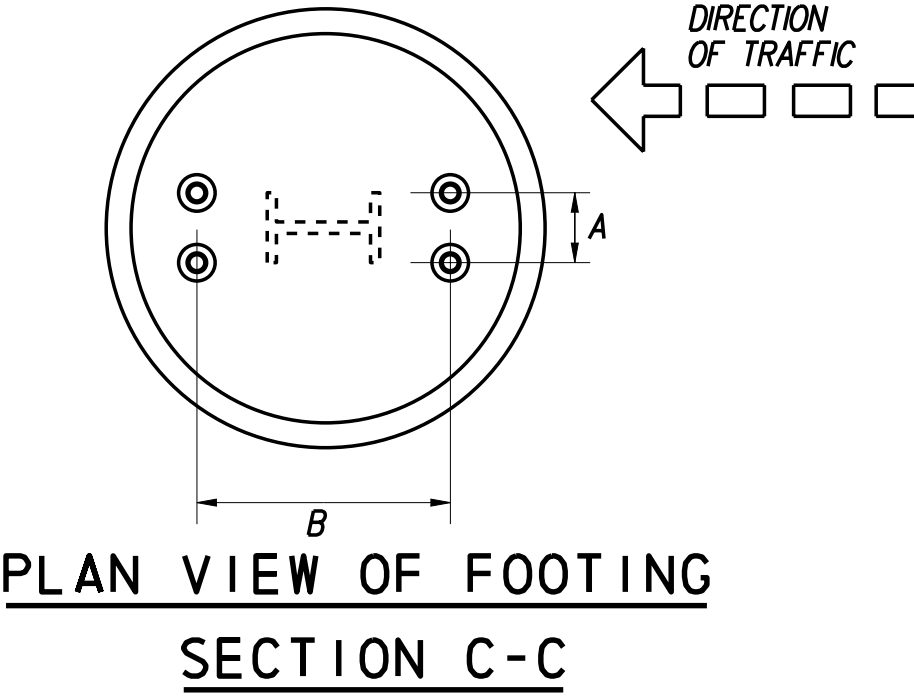
NOTES:

1. W6X9 SIGN POSTS SHALL NOT BE USED WITH BREAKAWAY BASE SUPPORT SYSTEM 'B'.
2. DESIGNATION B-650 IS FOR 10", 12", 14", 16", 18" AND 21" BEAM SIZES OR 7" AND 8" SQUARE TUBE SIGN POST.
3. DO NOT PLACE TORQUE WRENCH ACROSS NECK OF COUPLING.
4. HINGE PLATES SHALL NOT BE USED WITH SINGLE STEEL SUPPORT INSTALLATIONS FOR SIGNS.
5. REFER TO GALVANIZED STEEL BEAM SIGN POSTS FOUNDATION DETAILS STANDARD PLATE FOR ADJUSTMENTS TO CONCRETE FOUNDATIONS NECESSITATED BY VARIOUS GROUND SLOPES.
6. FIXED, NON-BREAKAWAY FOOTING SHALL NOT BREAK THE 4" X 60" PLANE.
7. ANCHOR AND COUPLING ASSEMBLY TO BE ASSEMBLED PER (OR IN ACCORDANCE WITH) MANUFACTURER'S RECOMMENDATIONS.
8. WRENCH SIZES REQUIRED: 3/8", 7/8", 1 1/8", 1 1/4", 1 1/2", 1 5/8"

COUPLING BOLT DETAIL

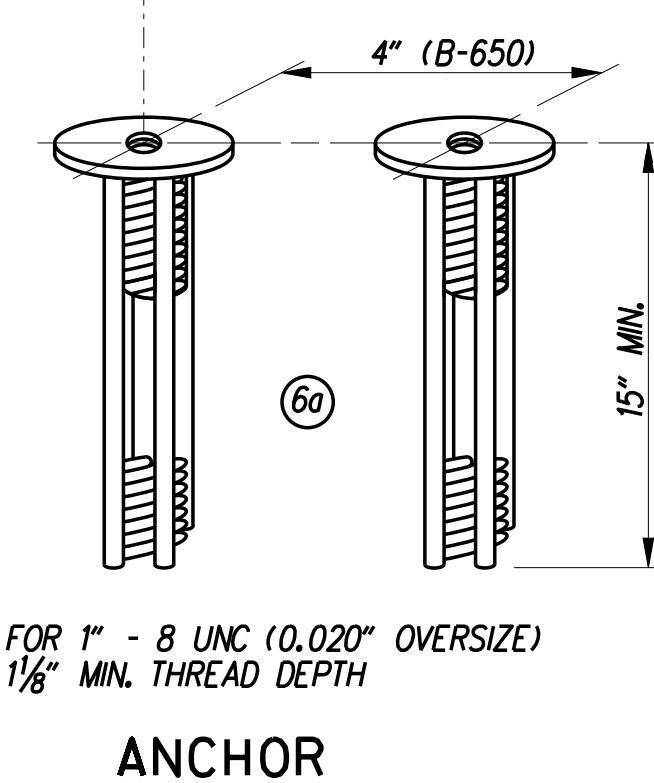


BREAKAWAY COUPLING DETAIL



ANCHOR AND COUPLING ASSEMBLY

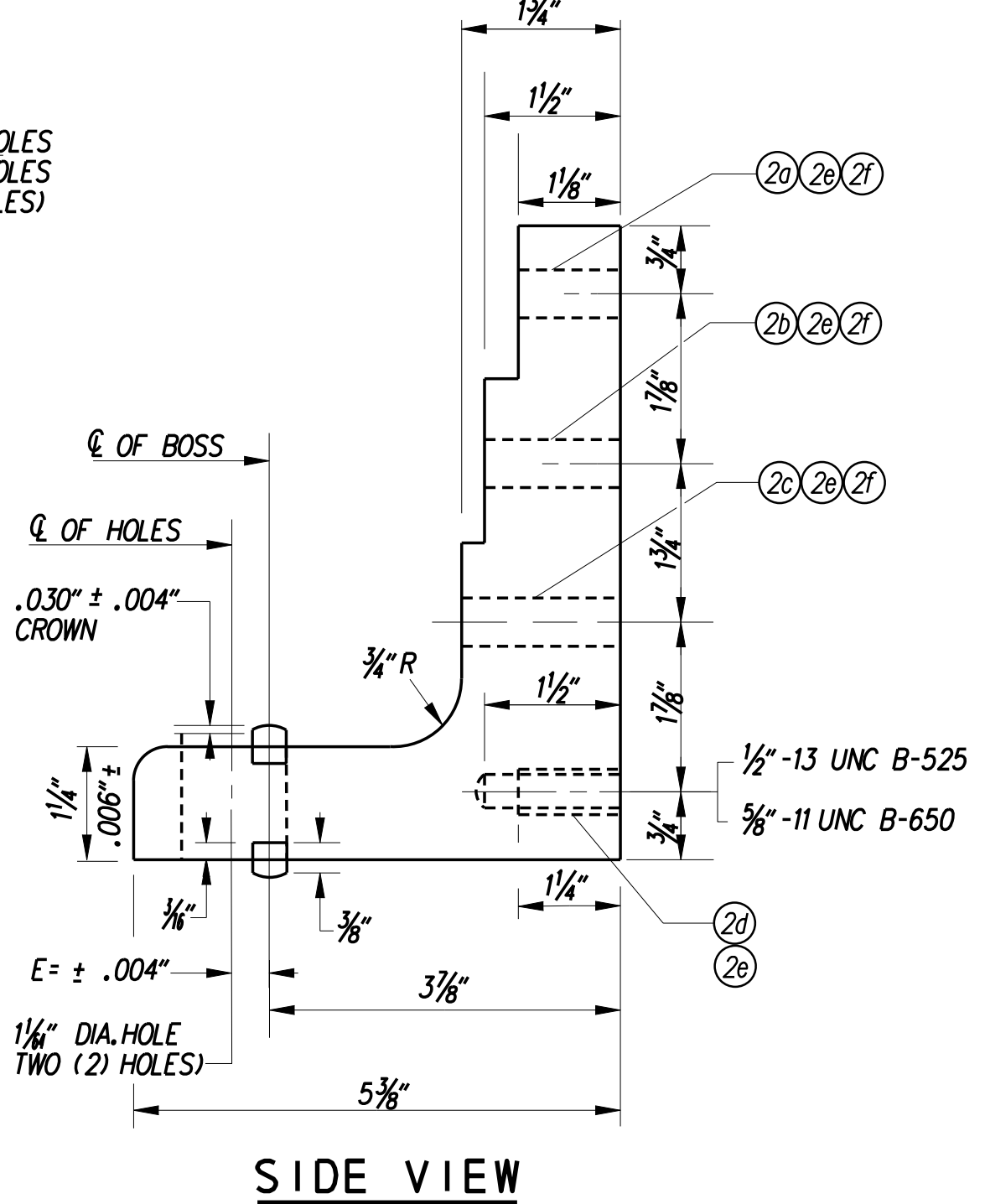
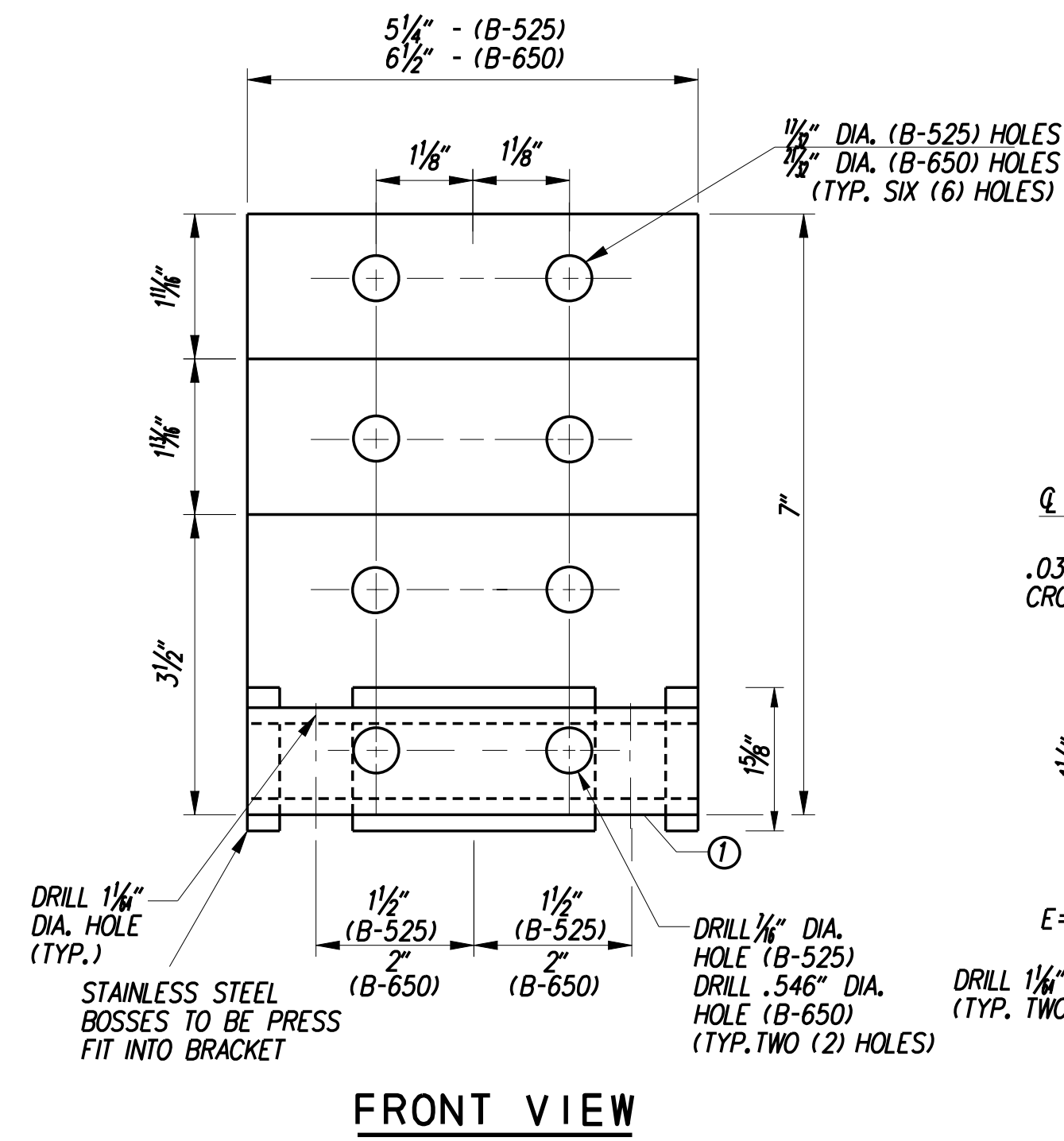
A = LATERAL SPACING FOR ANCHORS
 4" FOR B-650 USED ON 10", 12", 14", 16", 18" AND 21" WIDE FLANGE POSTS OR 7" AND 8" SQUARE TUBE SIGN POST.
 B = LONGITUDINAL SPACING FOR ANCHORS
 BRACKET 1 - DEPTH OF POST SECTION PLUS 7 1/4" INCHES
 BRACKET 2 - DEPTH OF POST SECTION PLUS 8 1/4" INCHES
 BRACKET 3 - DEPTH OF POST SECTION PLUS 8 1/8" INCHES



ANCHOR

BRACKET ASSEMBLY

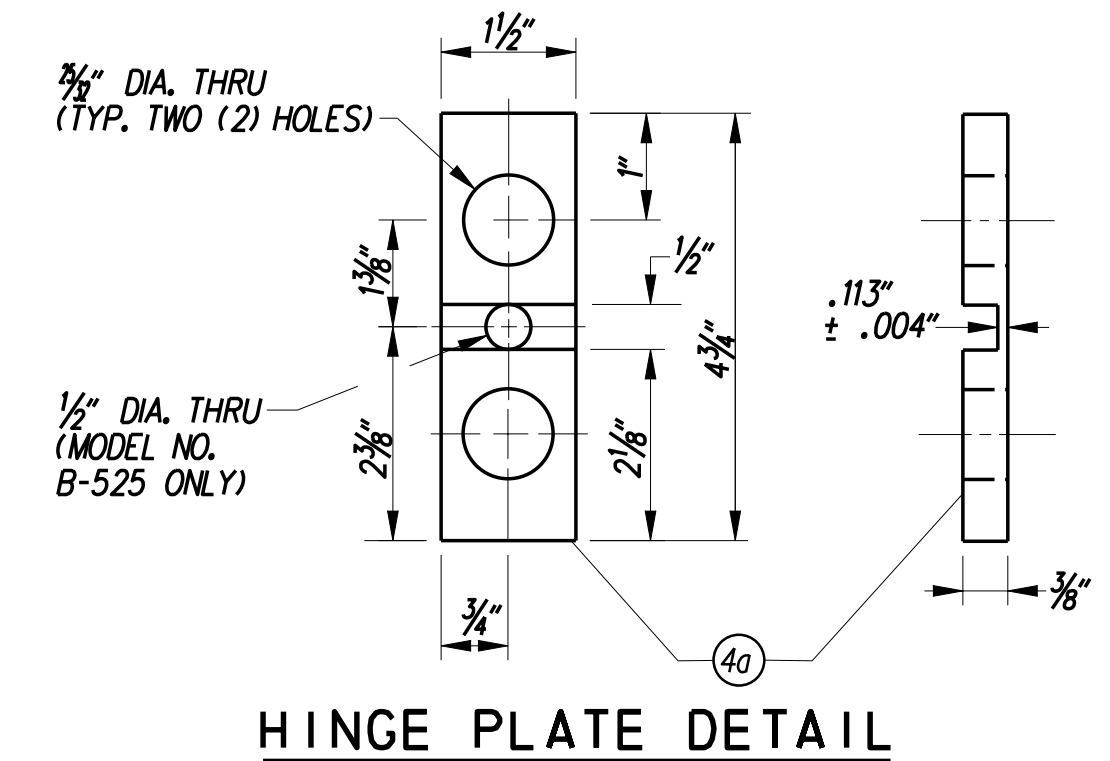
ATTACH BRACKETS TO POST WITH BOLTS PROVIDED. SQUARE AND TIGHTEN.
 (ITEMS 20, 21, 22, 23, 24 AND 27)



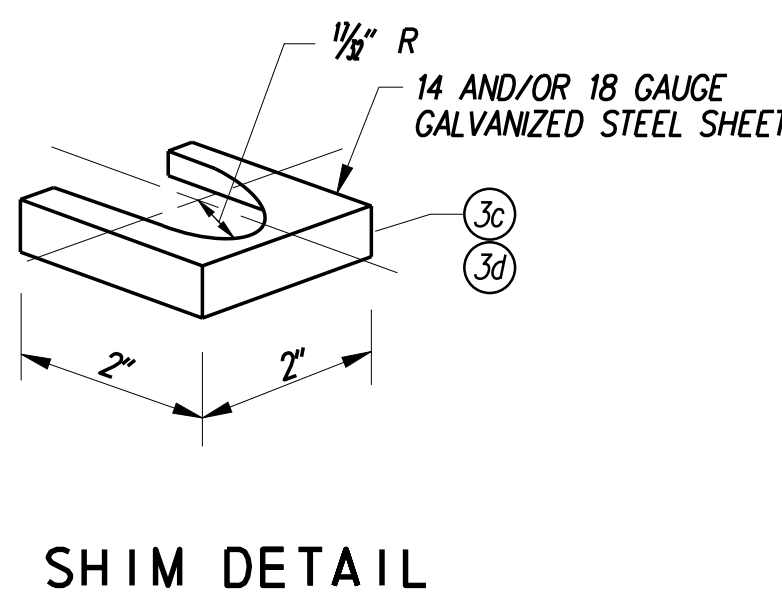
FRONT VIEW

SIDE VIEW

BRACKET DETAIL



HINGE PLATE DETAIL



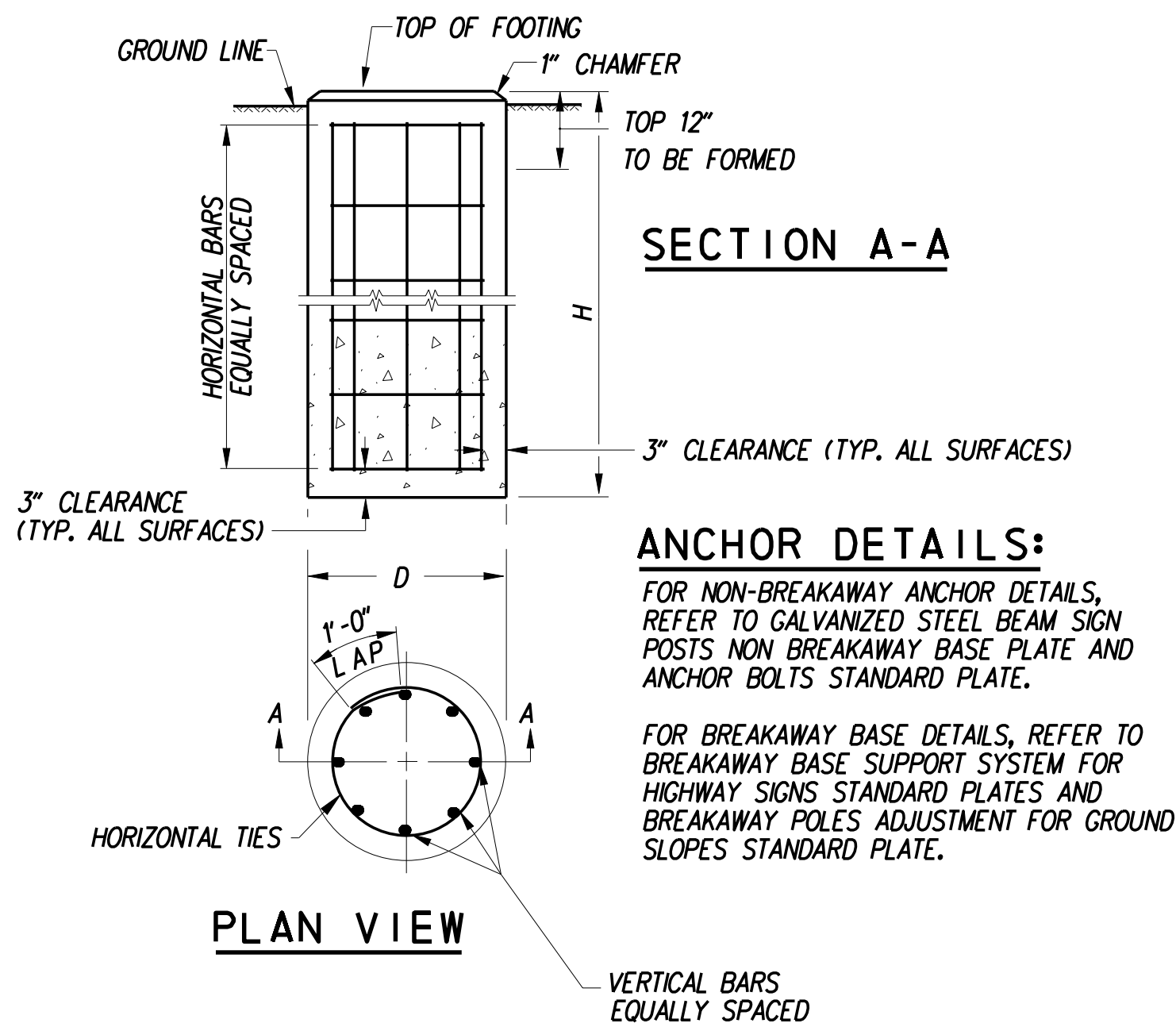
SHIM DETAIL

ITEM	DESCRIPTION	SIZE / SPECIFICATIONS	QTY. / POST	PART NO.
1	BRACKET, TYPE B650	6061-T6 ALUMINUM (SEE BRACKET SELECTION TABLE FOR -NUMBER)	2	SBBK650-1A, -2A, -3A
2	BRACKET HARDWARE ASSEMBLY, TYPE B650, INCLUDES:		1	SB-B650LPH
20	BOLT	5/8" - 11 UNC x 2 3/4" HEX HD., ASTM A325, GALV. ASTM A153	4	
21	BOLT	5/8" - 11 UNC x 3" HEX HD., ASTM A325, GALV. ASTM A153	4	
22	BOLT	5/8" - 11 UNC x 3 1/4" HEX HD., ASTM A325, GALV. ASTM A153	4	
23	CAP SCREW	5/8" - 11 UNC x 1 1/4" HEX HD., ASTM A307, GALV. ASTM A153	4	
24	LOCKWASHER	5/8", ANSIB18-21-1, GALV. ASTM A153	16	
27	NUT	5/8" - 11 UNC, HEAVY HEX, ASTM A563 GR. DH, GALV. ASTM A153	12	
3	COUPLING & SPECIAL BOLT ASSEMBLY, TYPE B, INCLUDES:		1	SB-CBLP
30	SPECIAL BOLT	1" - 8 UNC, ASTM A449, GALV. ASTM A153/B695	4	
31	COUPLING	1" - 8 UNC, LP., AMS 6378D, GALV. ASTM A153, POLYESTER COAT	4	
32	SHIM	1" HORSESHOE, 14 GAUGE, GALV. STEEL SHEET	2	
33	SHIM	1" HORSESHOE, 18 GAUGE, GALV. STEEL SHEET	2	
4	HINGE ASSEMBLY, TYPE B650, INCLUDES:		1	SB-HB2
40	HINGE PLATE	TYPE B650, AISI 4130 STEEL, GALV. ASTM A123	4	
5	HINGE HARDWARE ASSEMBLY, TYPE B, INCLUDES:		1	SB-HHB
50	BOLT	HINGE, 3/4" - 10 UNC x 2 1/4" HEX HD., ASTM A325, GALV. ASTM A153	8	
51	LOCKWASHER	3/4", ANSIB18-21-1, GALV. ASTM A153	8	
52	NUT	3/4" - 10 UNC, HEAVY HEX, ASTM A563, GR, DH, GALV. ASTM A153	8	
6	ANCHOR ASSEMBLY, TYPE B, INCLUDES:		1	SBABPK
60	ANCHOR	1"-8 UNC, 304 STAINLESS STEEL FERRULE, AISI 1045 ROD, AISI 1008 COIL	4	

* WITH EXCEPTIONS TO DECARBURIZATION AND MACROSTRUCTURE CLAUSES.

MATERIAL LIST FOR 10", 12", 14", 16", 18" AND 21" STEEL I-BEAM SIGN POSTS OR 7" AND 8" SQUARE TUBE SIGN POSTS (B-650)

LAST REVISED: 5/5/2009 G:\60049040-US301\CIVIL\PLANS\2A.CP.VSS-56.DGN

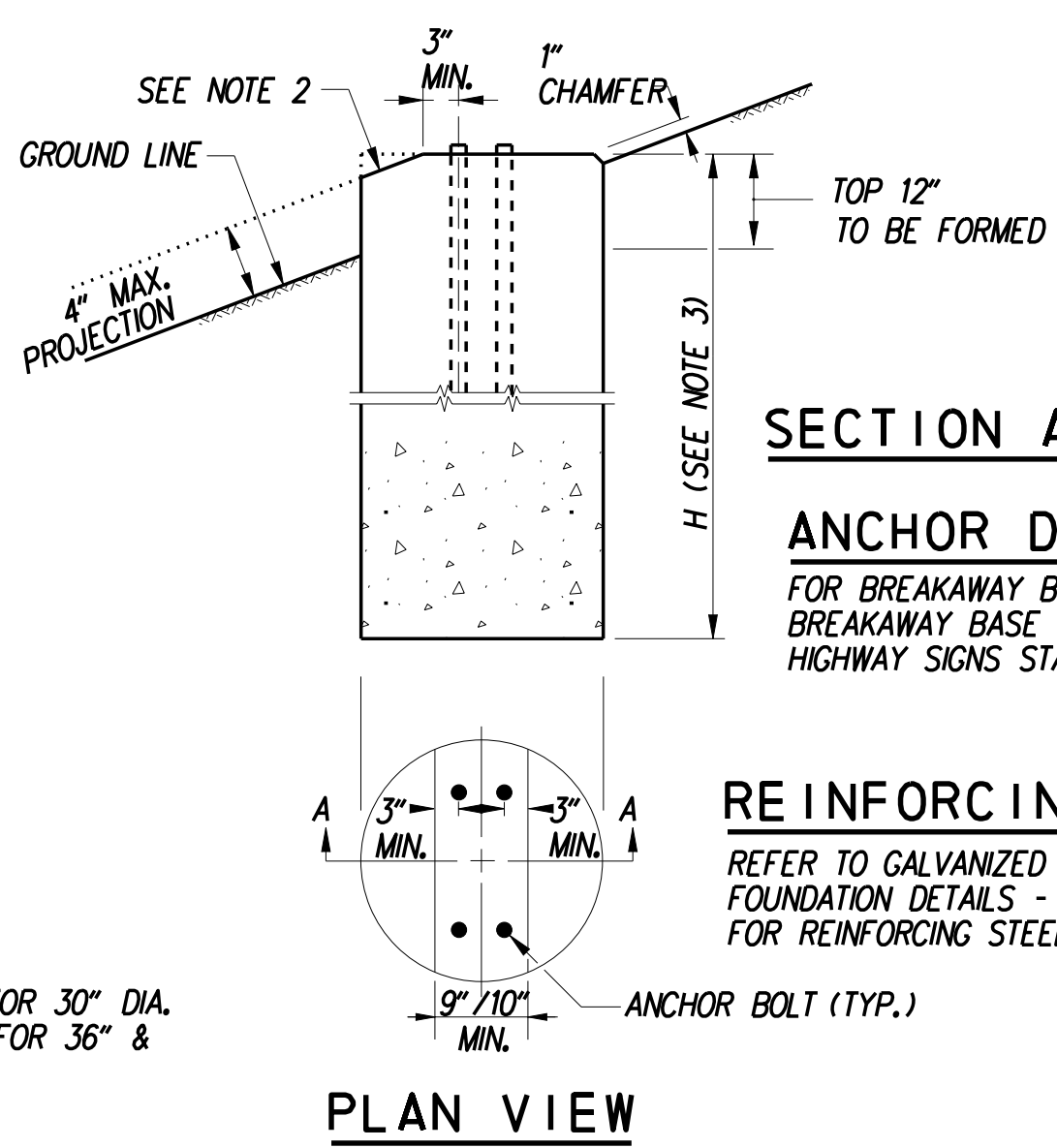


SECTION A-A

ANCHOR DETAILS:
 FOR NON-BREAKAWAY ANCHOR DETAILS, REFER TO GALVANIZED STEEL BEAM SIGN POSTS NON BREAKAWAY BASE PLATE AND ANCHOR BOLTS STANDARD PLATE.
 FOR BREAKAWAY BASE DETAILS, REFER TO BREAKAWAY BASE SUPPORT SYSTEM FOR HIGHWAY SIGNS STANDARD PLATES AND BREAKAWAY POLES ADJUSTMENT FOR GROUND SLOPES STANDARD PLATE.

PLAN VIEW

BREAKAWAY AND NON-BREAKAWAY TYPE "A" SIGN POST FOUNDATIONS



SECTION A-A

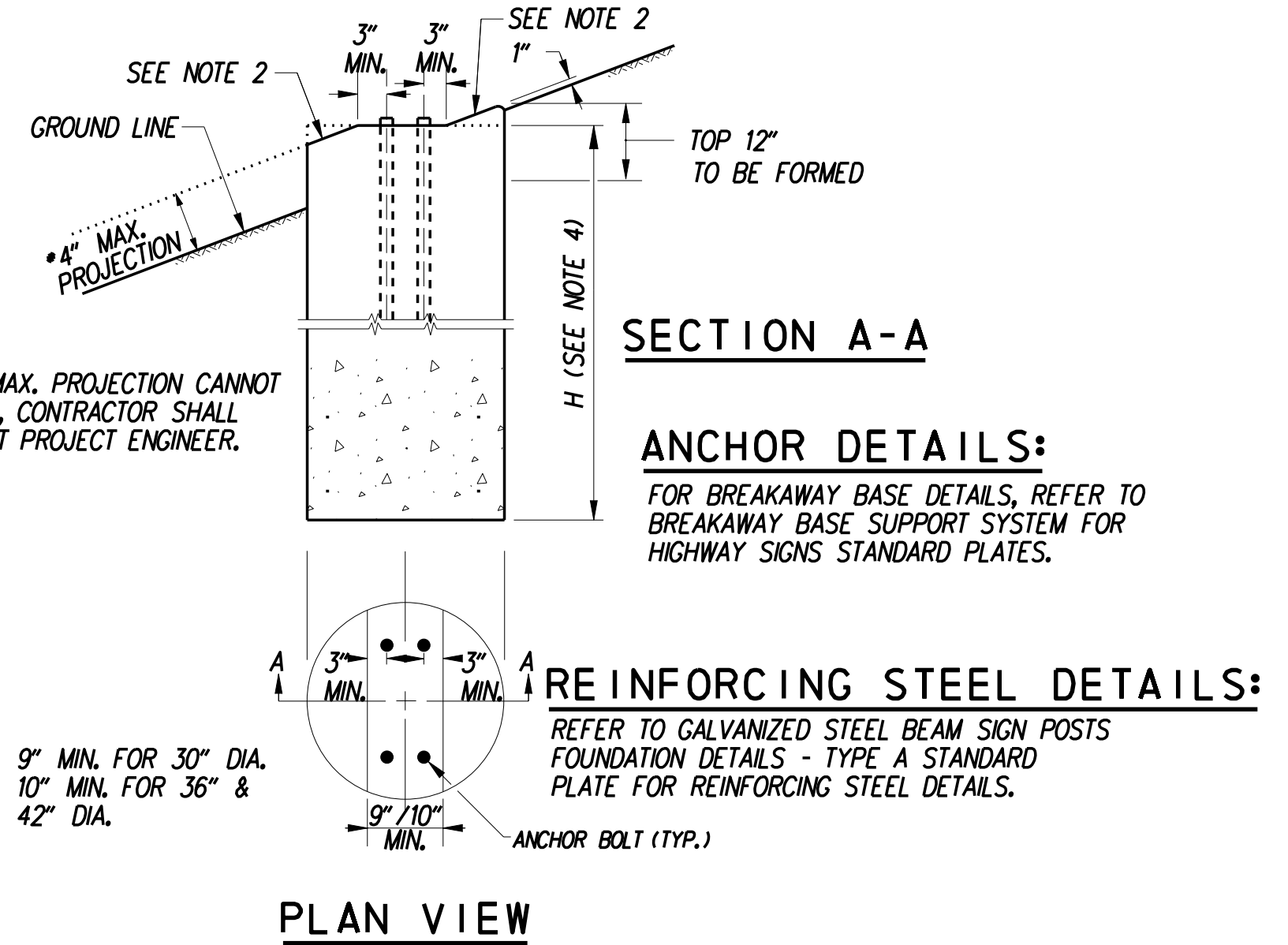
ANCHOR DETAILS:
 FOR BREAKAWAY BASE DETAILS, REFER TO BREAKAWAY BASE SUPPORT SYSTEM FOR HIGHWAY SIGNS STANDARD PLATES.

REINFORCING STEEL DETAILS:

REFER TO GALVANIZED STEEL BEAM SIGN POSTS FOUNDATION DETAILS - TYPE A STANDARD PLATE FOR REINFORCING STEEL DETAILS.

PLAN VIEW

BREAKAWAY TYPE "B" SIGN POST FOUNDATION



SECTION A-A

ANCHOR DETAILS:
 FOR BREAKAWAY BASE DETAILS, REFER TO BREAKAWAY BASE SUPPORT SYSTEM FOR HIGHWAY SIGNS STANDARD PLATES.

REINFORCING STEEL DETAILS:

REFER TO GALVANIZED STEEL BEAM SIGN POSTS FOUNDATION DETAILS - TYPE A STANDARD PLATE FOR REINFORCING STEEL DETAILS.

PLAN VIEW

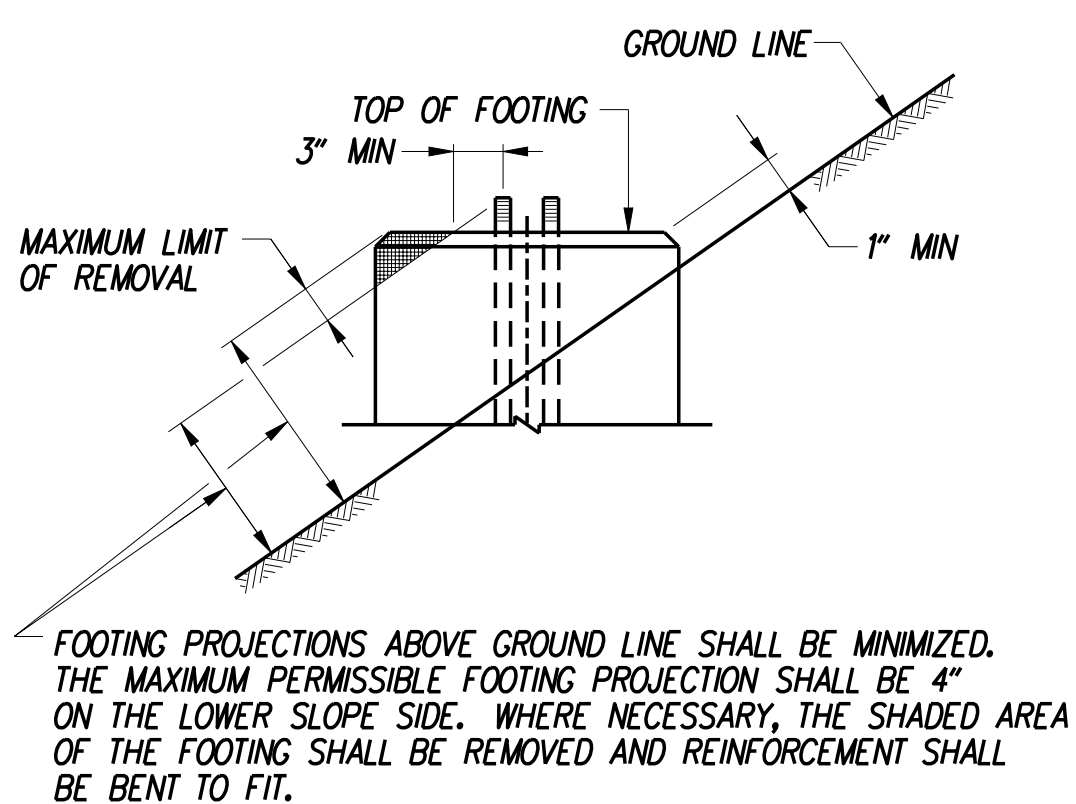
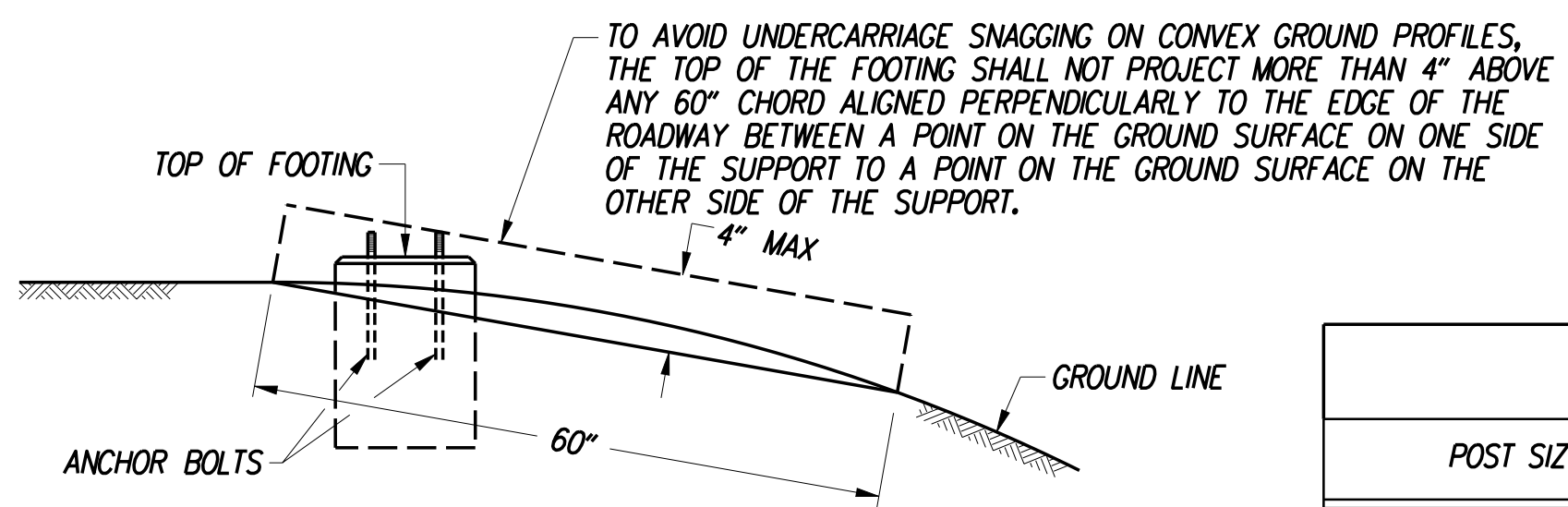
BREAKAWAY TYPE "C" SIGN POST FOUNDATION

NOTES:

1. THIS FOUNDATION SHALL BE USED ONLY IN LOCATIONS MEETING SLOPE CRITERIA IN ACCORDANCE WITH THE FOUNDATION SELECTION MATRIX ON THIS SHEET.
2. SLOPED PORTIONS OF THE FOUNDATION SHALL MATCH THE FINISHED GROUND SLOPE.
3. REFER TO THE FOUNDATION DATA TABLE FOR FOUNDATION DIMENSIONS AND REINFORCING STEEL DETAILS.

NOTES:

1. THIS FOUNDATION SHALL BE USED ONLY IN LOCATIONS MEETING SLOPE CRITERIA IN ACCORDANCE WITH THE FOUNDATION SELECTION MATRIX ON THIS SHEET.
2. SLOPED PORTIONS OF THE FOUNDATION SHALL MATCH THE FINISHED GROUND SLOPE.
3. ON FILL SLOPES GREATER THAN 6:1 BUT NO STEEPER THAN 3:1, FOUNDATIONS DESIRABLY SHOULD BE INSTALLED A MINIMUM OF 14 FT BEYOND THE HINGE POINT. THE HINGE POINT IS THE POINT OF SLOPE TRANSITION FROM THE SHOULDER SLOPE, OR A RELATIVELY FLAT RECOVERY AREA ADJACENT TO THE ROADWAY, TO A STEEPER FORESLOPE, (ALSO KNOWN AS THE FORESLOPE BREAK).
4. REFER TO THE FOUNDATION DATA TABLE FOR FOUNDATION DIMENSIONS AND REINFORCING STEEL DETAILS.



FOOTING PROJECTIONS ABOVE GROUND LINE SHALL BE MINIMIZED. THE MAXIMUM PERMISSIBLE FOOTING PROJECTION SHALL BE 4" ON THE LOWER SLOPE SIDE. WHERE NECESSARY, THE SHADED AREA OF THE FOOTING SHALL BE REMOVED AND REINFORCEMENT SHALL BE BENT TO FIT.

BREAKAWAY POLES ADJUSTMENT FOR GROUND SLOPES

POST SIZE	D	H	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT	CONCRETE
					REQ'D C.Y.
W6 x 9	30"	6'-0"	EIGHT (8)- NO.7	SEVEN (7)- NO.4	1.1
W6 x 12 OR TS 5" x 5" x 1/4"	30"	6'-0"	EIGHT (8)- NO.7	SEVEN (7)- NO.4	1.1
W6 x 15 OR W6 x 16 OR TS 6" x 6" x 1/4"	30"	6'-6"	EIGHT (8)- NO.7	SEVEN (7)- NO.4	1.2
W8 x 18	30"	7'-6"	EIGHT (8)- NO.9	EIGHT (8)- NO.4	1.4
W8 x 21 OR TS 7" x 7" x 1/4"	30"	8'-0"	EIGHT (8)- NO.9	NINE (9)- NO.4	1.5
W10 x 22 OR TS 8" x 8" x 1/4"	36"	8'-6"	EIGHT (8)- NO.10	NINE (9)- NO.4	2.3
W10 x 26	36"	9'-0"	EIGHT (8)- NO.10	TEN (10)- NO.4	2.4
W12 x 26	36"	10'-0"	EIGHT (8)- NO.10	ELEVEN (11)- NO.4	2.7
W14 x 30	36"	11'-0"	EIGHT (8)- NO.10	TWELVE (12)- NO.4	2.9
W16 x 31	36"	12'-0"	EIGHT (8)- NO.10	THIRTEEN (13)- NO.4	3.2
W18 x 35 OR W18x40	36"	13'-0"	EIGHT (8)- NO.10	FOURTEEN (14)- NO.4	3.5
W21 x 44	42"	12'-0"	TWELVE (12)- NO.10	THIRTEEN (13)- NO.4	4.3

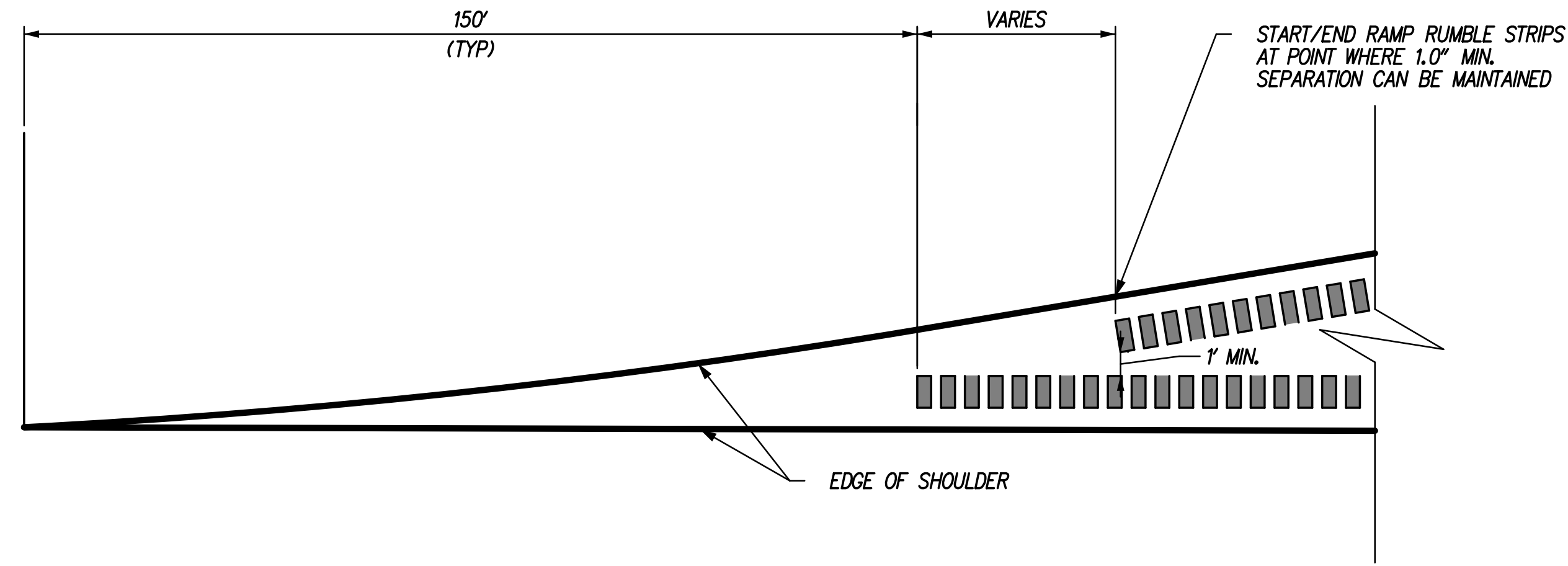
POST SIZE	FOUNDATION DIAMETER	ROADWAY CUT / FILL SLOPE										
		≥2:1	3:1	4:1	5:1	6:1	7:1	8:1	9:1	10:1	12:1	≤13:1
W6x9	30"	*	C	C	C	C	B	B	B	A	A	A
W6x12 or TS 5" x 5" x 1/4"	30"	*	C	C	C	C	B	B	B	A	A	A
W6x15, W6x16 or TS 6" x 6" x 1/4 "	30"	*	C	C	C	C	B	B	B	A	A	A
W8x18	30"	*	C	C	C	C	B	B	B	A	A	A
W8x21 or TS 7" x 7" x 1/4"	30"	*	C	C	C	C	B	B	B	A	A	A
W10x22 or TS 8" x 8" x 1/4"	36"	*	*	C	C	C	C	B	B	B	A	A
W10x26	36"	*	*	C	C	C	C	B	B	B	A	A
W12x26	36"	*	*	C	C	C	C	B	B	B	A	A
W14x30	36"	*	*	C	C	C	C	B	B	B	A	A
W16x31	36"	*	*	C	C	C	C	B	B	B	A	A
W18x35 or W18x40	36"	*	*	C	C	C	C	B	B	B	A	A
W21x44	42"	*	*	C	C	C	C	C	B	B	B	A

*IF A FOUNDATION EXCEEDS THE 4" AASHTO CRITERIA, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR APPROPRIATE GUIDANCE.

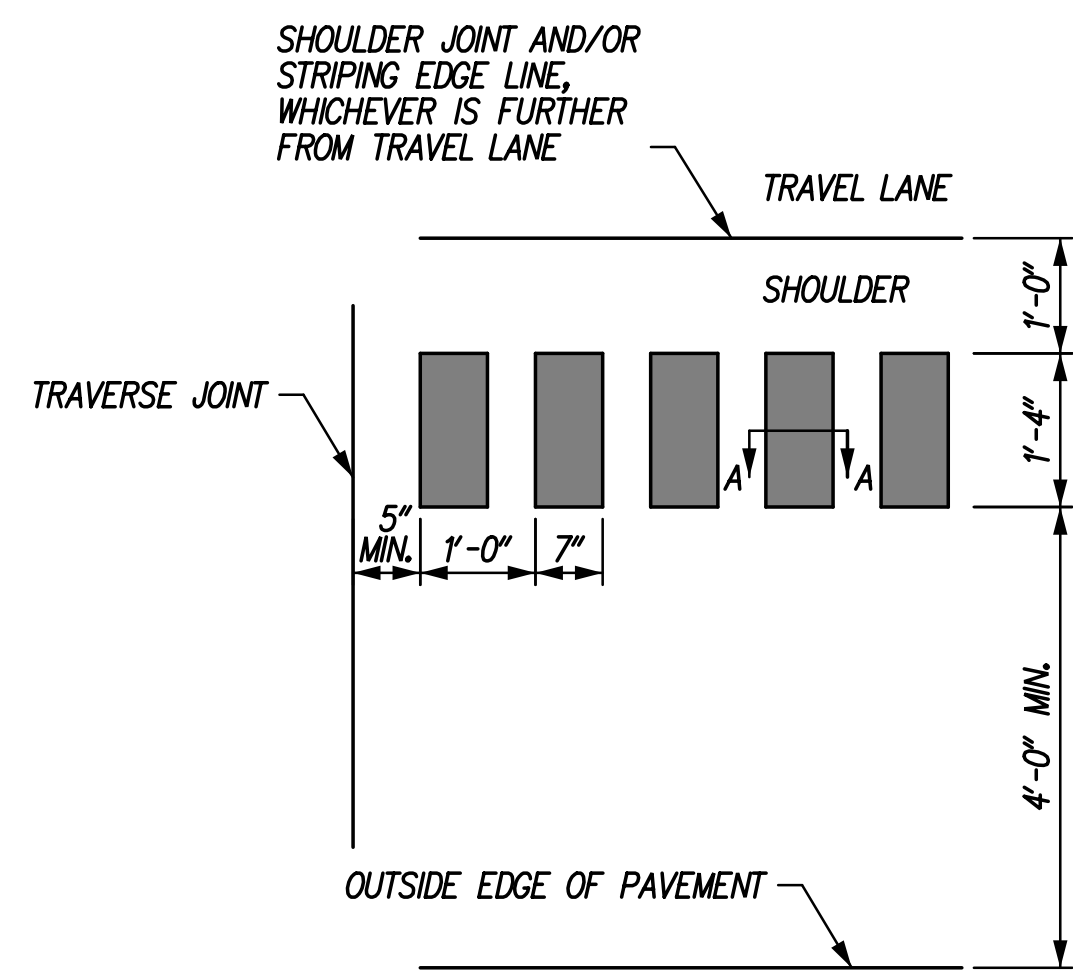
LAST REVISED: 5/5/2009 G:\60049040-US301\CIVIL\PLANS\2A.CP.VSS-57.DGN

ADDENDUMS / REVISIONS

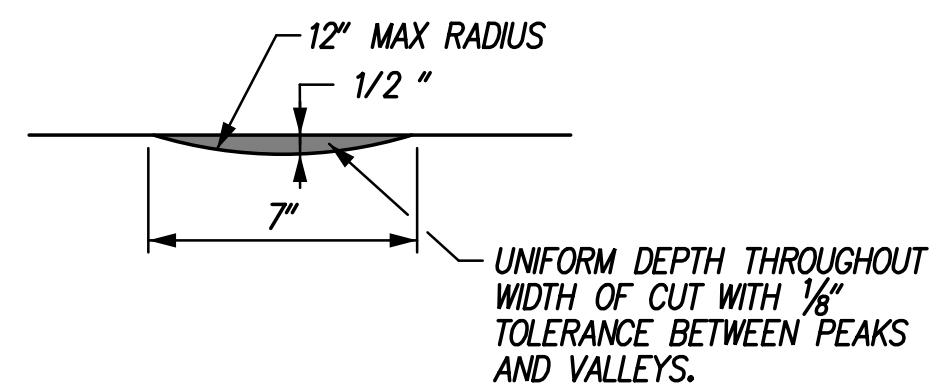
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: DWB JW
	CHECKED BY: JF SF



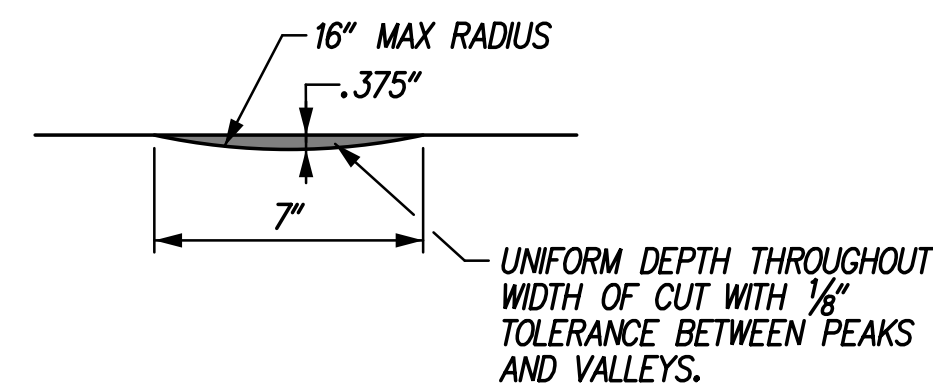
RUMBLE STRIPS AT GORE AREAS



PLAN



**SECTION A-A-1
FOR INTERSTATE AND ALL RAMP**



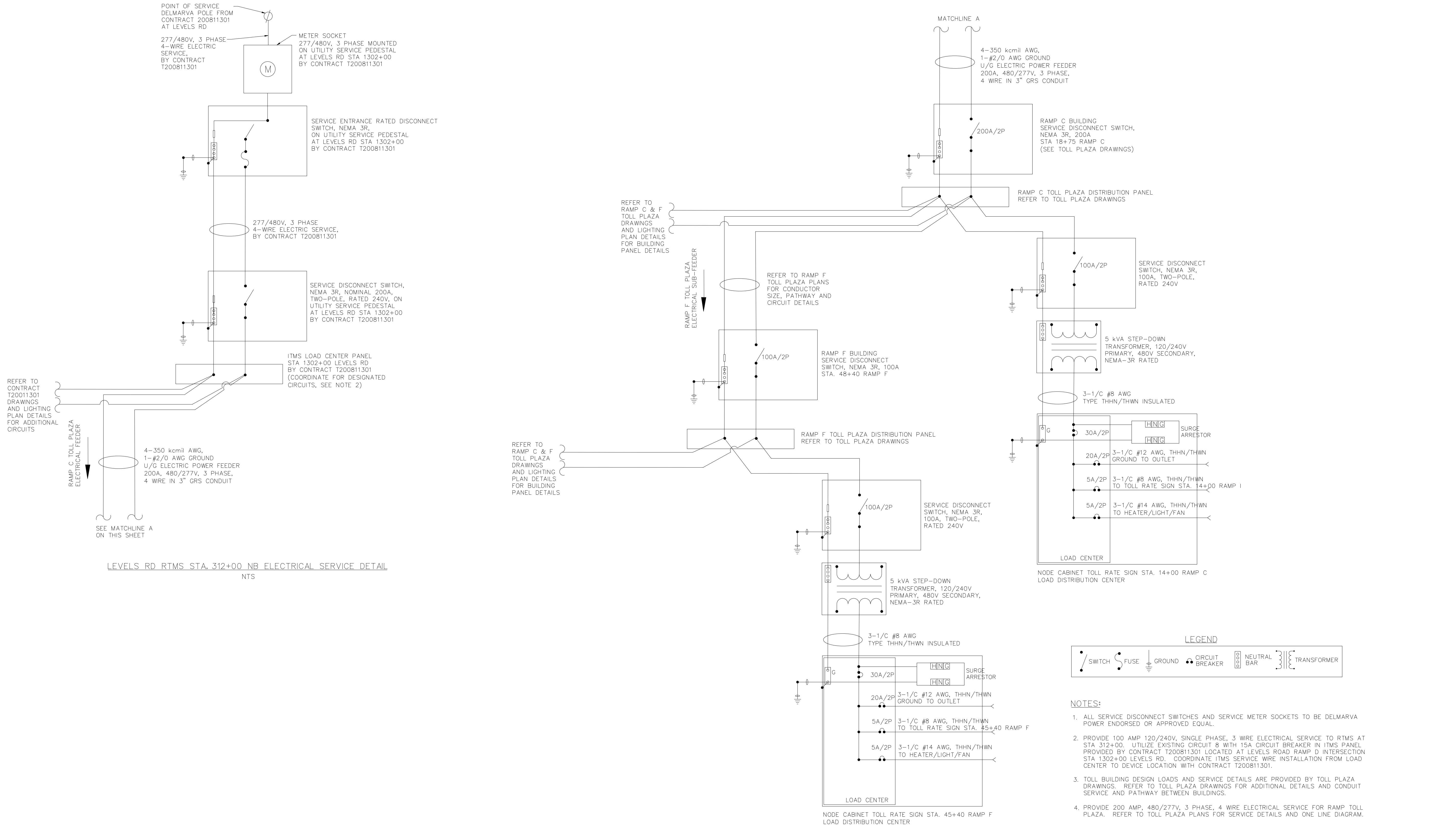
**SECTION A-A-2
FOR BRIDGE DECKS LONGER THAN 200'
AND BICYCLE FRIENDLY
(BUNKER HILL ROAD AND CONNECTOR ROAD)**

NOTES:

1. ALL WORK REQUIRED TO COMPLETE THE INSTALLATION OF EDGELINE RUMBLE STRIPS SHALL BE INCIDENTAL TO ITEM 760016 - RUMBLE STRIPS, HOT MIX, 760017 - RUMBLE STRIPS, CONCRETE AND/OR 760015 - RUMBLE STRIPS, CONCRETE, SHALLOW DEPTH.
2. EDGELINE RUMBLE STRIPS SHALL BE INSTALLED ALONG ALL INSIDE AND OUTSIDE SHOULDERS, AS PER THIS DETAIL.
3. PRIOR TO THE INSTALLATION OF EDGELINE RUMBLE STRIPS, THE CONTRACTOR SHALL SUBMIT A PLAN WITH THE TYPE AND LAYOUT OF PROPOSED RUMBLE STRIPS FOR APPROVAL BY THE ENGINEER.
4. ON CONCRETE SHOULDER PAVEMENTS, THE RUMBLE STRIPS SHALL BE INSTALLED A MINIMUM OF FIVE INCHES FROM THE TRANSVERSE JOINTS. THE CONTRACTOR SHALL LAYOUT THE RUMBLE STRIPS BETWEEN THE TRANSVERSE JOINTS PER THE DETAIL AND BALANCE THE AVAILABLE DISTANCE BETWEEN THE TRANSVERSE JOINTS AND THE FIRST AND LAST RUMBLE STRIPS. THE LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO BEGINNING WORK.
5. INSTALL RUMBLE STRIPS ON ALL SHOULDERS PER DETAILS, NOTING DIFFERENT CROSS SECTIONS FOR VARIOUS ROADWAYS.

P:\CADD\260049040 US 301\CIVIL\PLANS\2A\CP\AET\SS-58.DGN

<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS		<p>NOT TO SCALE</p>	<p>US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD</p>	CONTRACT	BRIDGE NO.	<p>SIGNING, STRIPING & CONDUIT DETAILS</p>	SS-58
					T20091303			SHEET NO.
					COUNTY	DESIGNED BY: DB JW		1092
					NEW CASTLE	CHECKED BY: JZ SF		TOTAL SHTS.
								1256



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ADDENDUMS / REVISIONS	

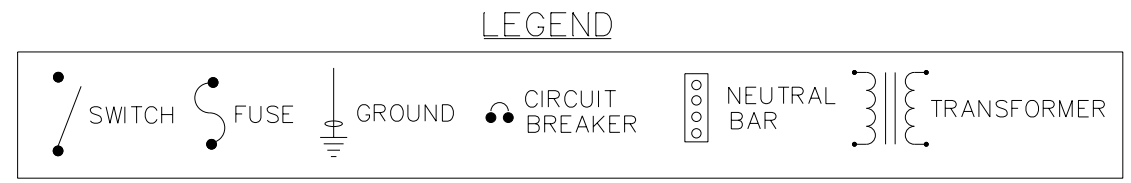
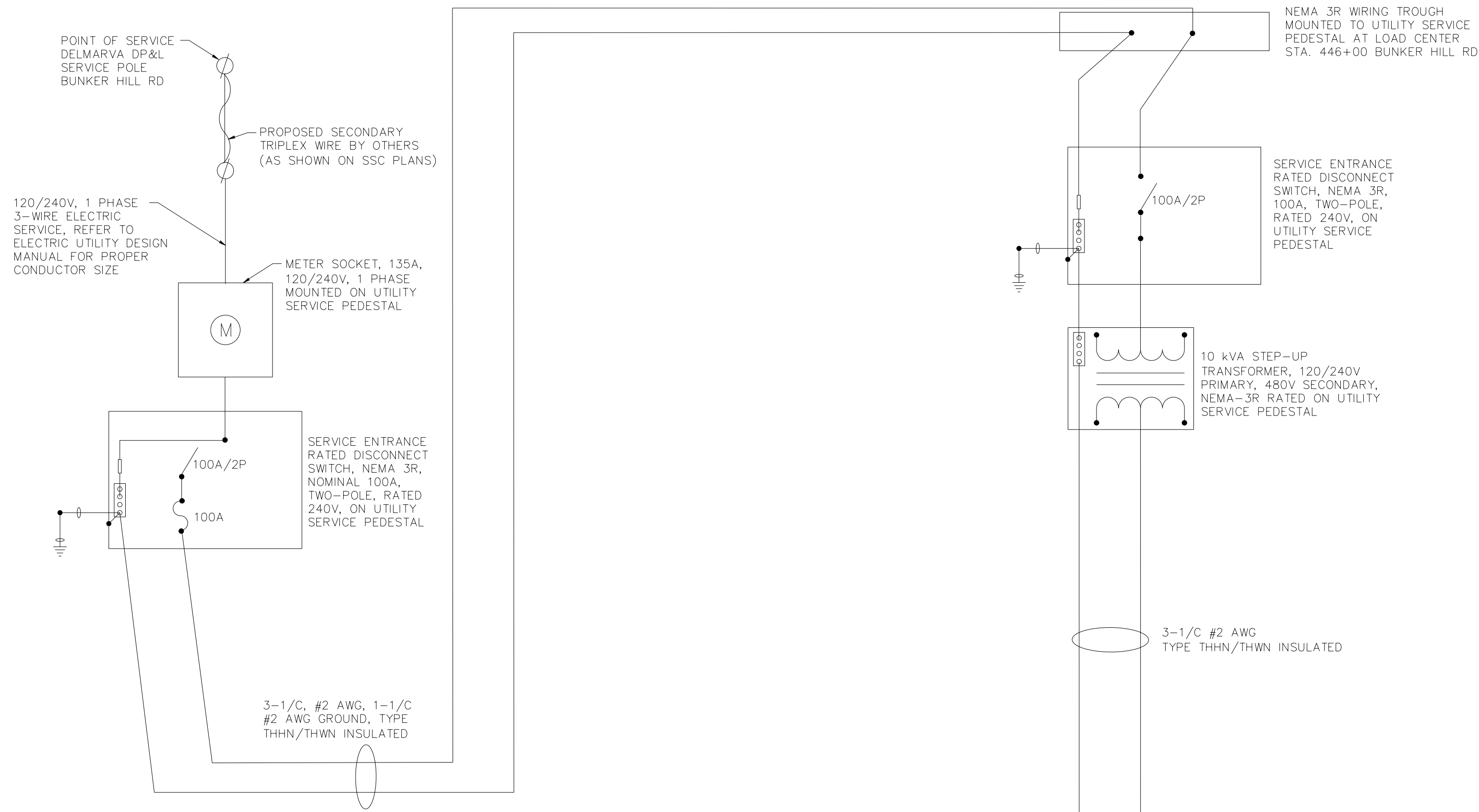
NOT TO SCALE

US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

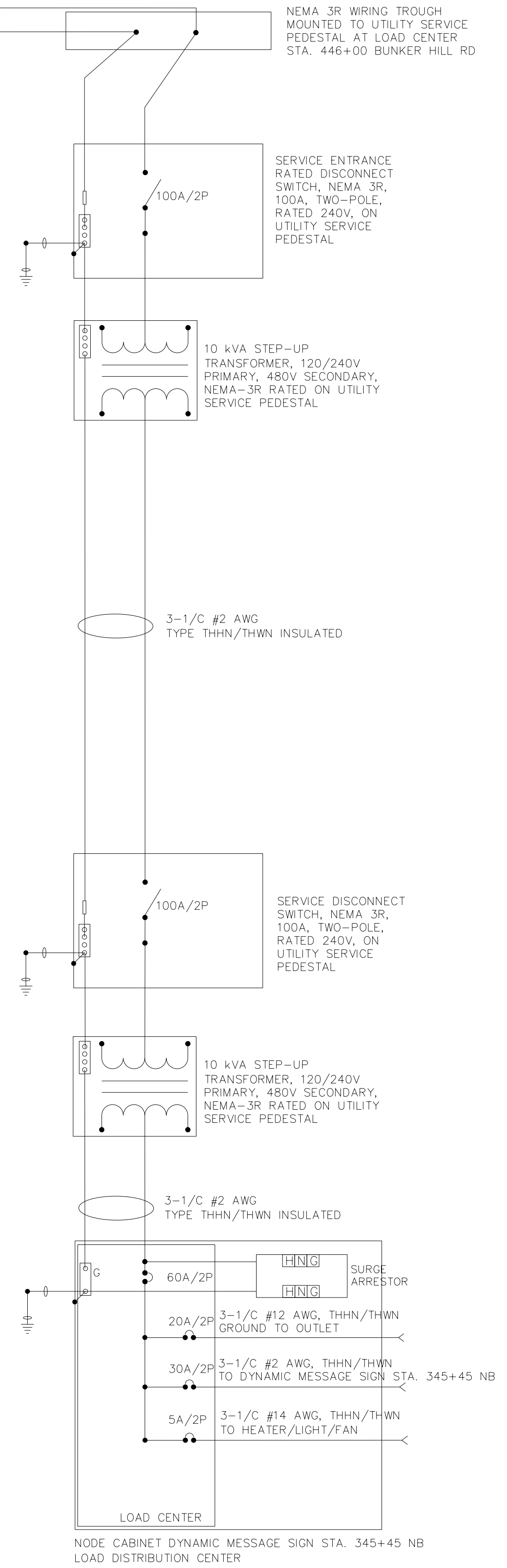
CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JE JW
COUNTY	CHECKED BY:	DB SF
NEW CASTLE		

SIGNING, STRIPING & CONDUIT DETAILS

SS-59
SHEET NO.
1093
TOTAL SHTS.
1256



- NOTES:
1. PROPOSED 100 AMP 120/240V, SINGLE PHASE, 3 WIRE ELECTRICAL SERVICE TO BE INSTALLED FOR ITMS DEVICES SHOWN.
 2. ALL SERVICE DISCONNECT SWITCHES AND SERVICE METER SOCKETS TO BE DELMARVA POWER ENDORSED OR APPROVED EQUAL.
 3. EXACT LOCATION OF ELECTRICAL SERVICE TO BE COORDINATED WITH DELMARVA POWER PENDING UTILITY RELOCATION DESIGN. DELMARVA POWER HAS CONFIRMED AVAILABILITY OF ELECTRICAL SERVICE AS PER CONTRACT CONDUIT PLANS.
 4. PROVIDE 200 AMP, 480/277V, 3 PHASE, 4 WIRE ELECTRICAL SERVICE FOR RAMP TOLL PLAZA. REFER TO TOLL PLAZA PLANS FOR DETAILS AND ONE LINE DIAGRAM.



BUNKER HILL RD ELECTRICAL SERVICE DETAIL
NTS

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ADDENDUMS / REVISIONS	

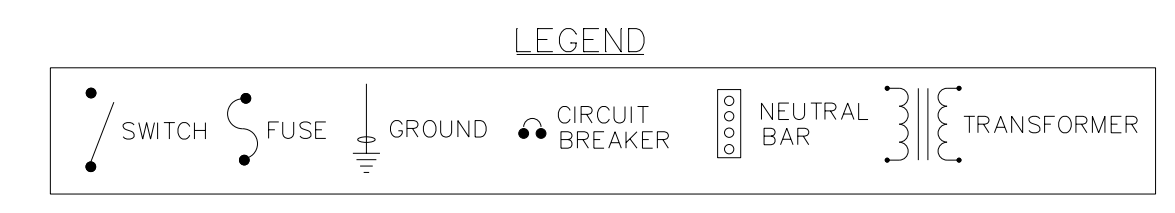
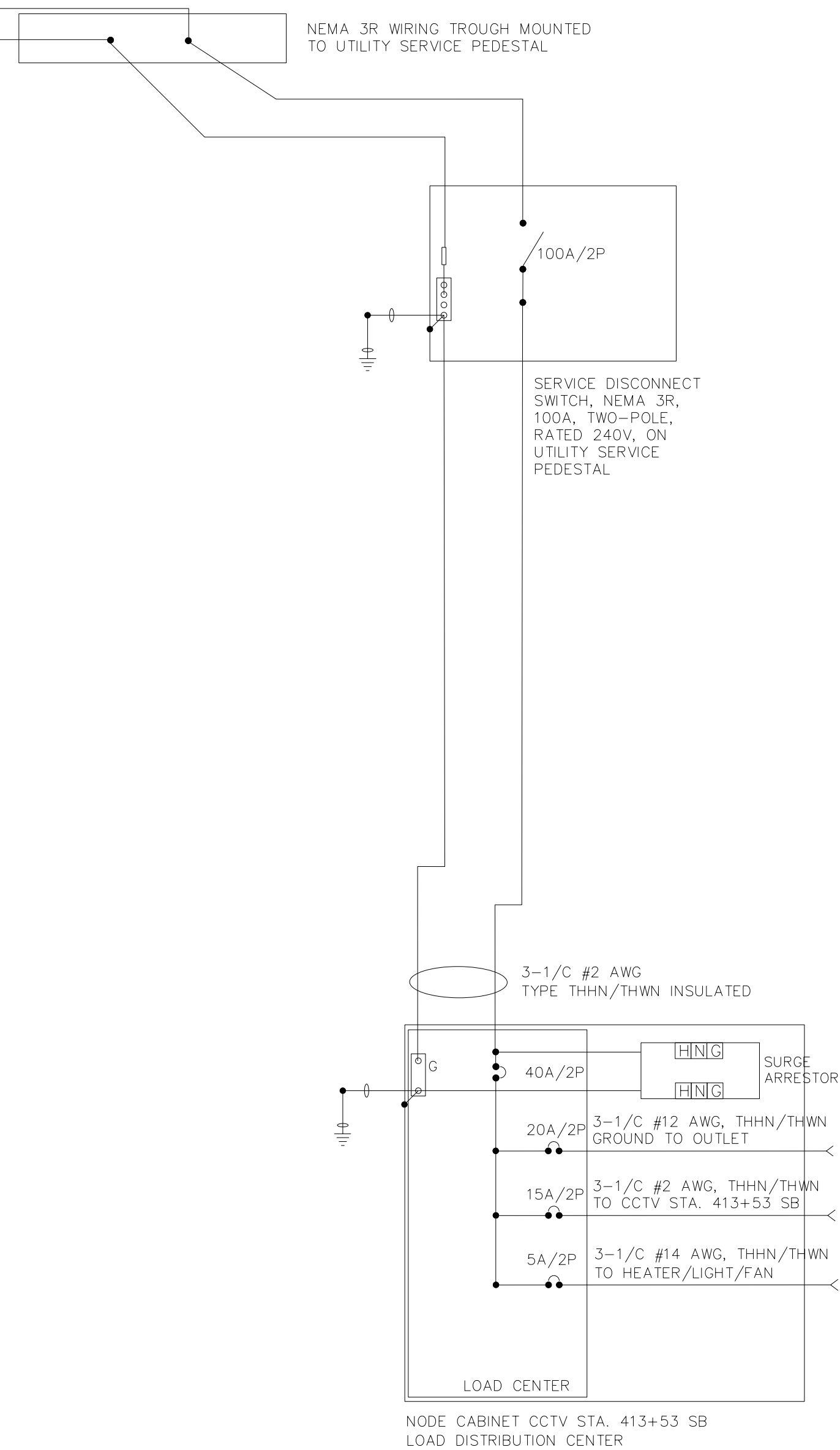
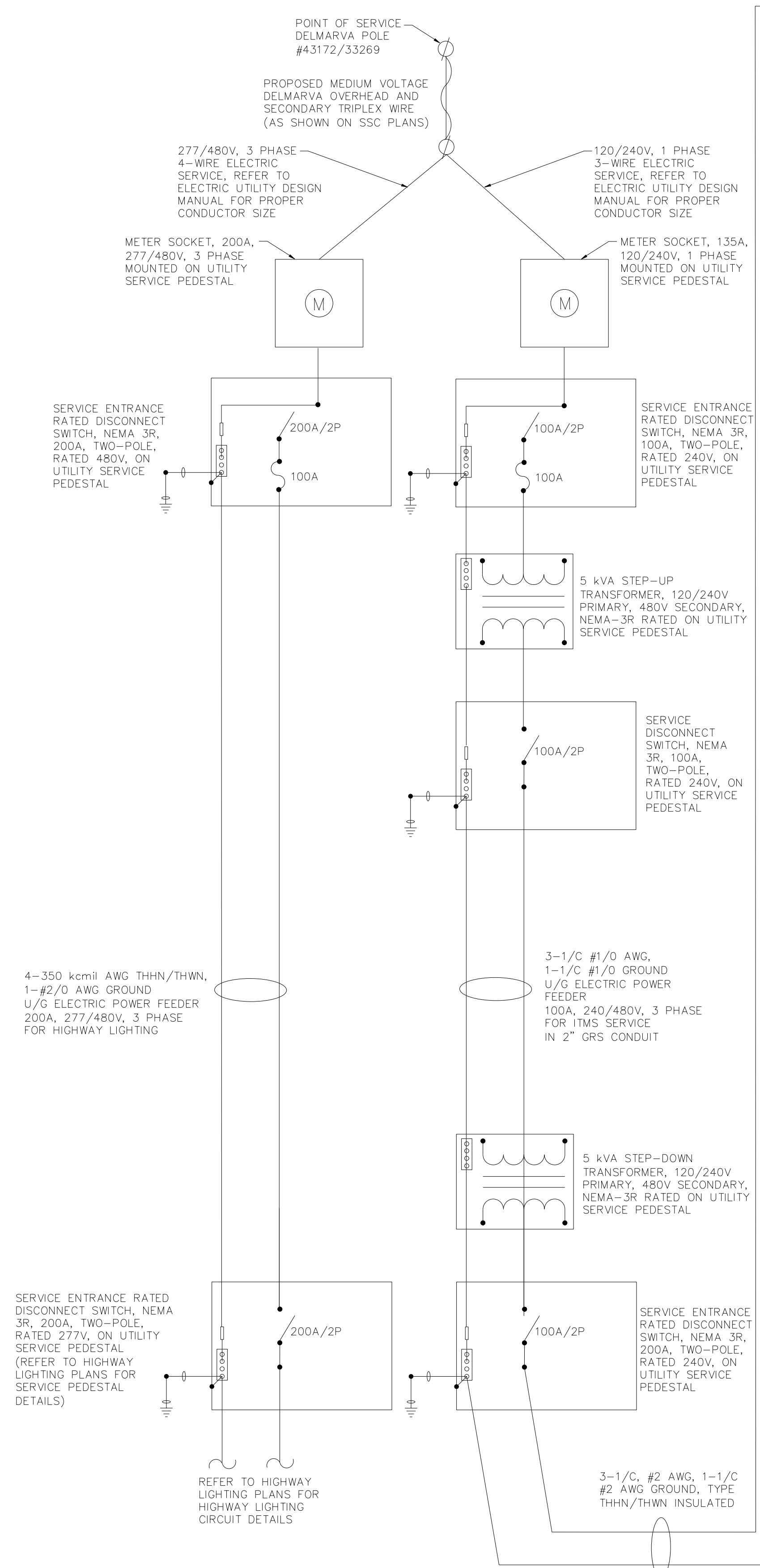
NOT TO SCALE

US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JE JW
COUNTY	CHECKED BY:	DB SF
NEW CASTLE		

SIGNING, STRIPING &
CONDUIT DETAILS

SS-60
SHEET NO.
1094
TOTAL SHTS.
1256

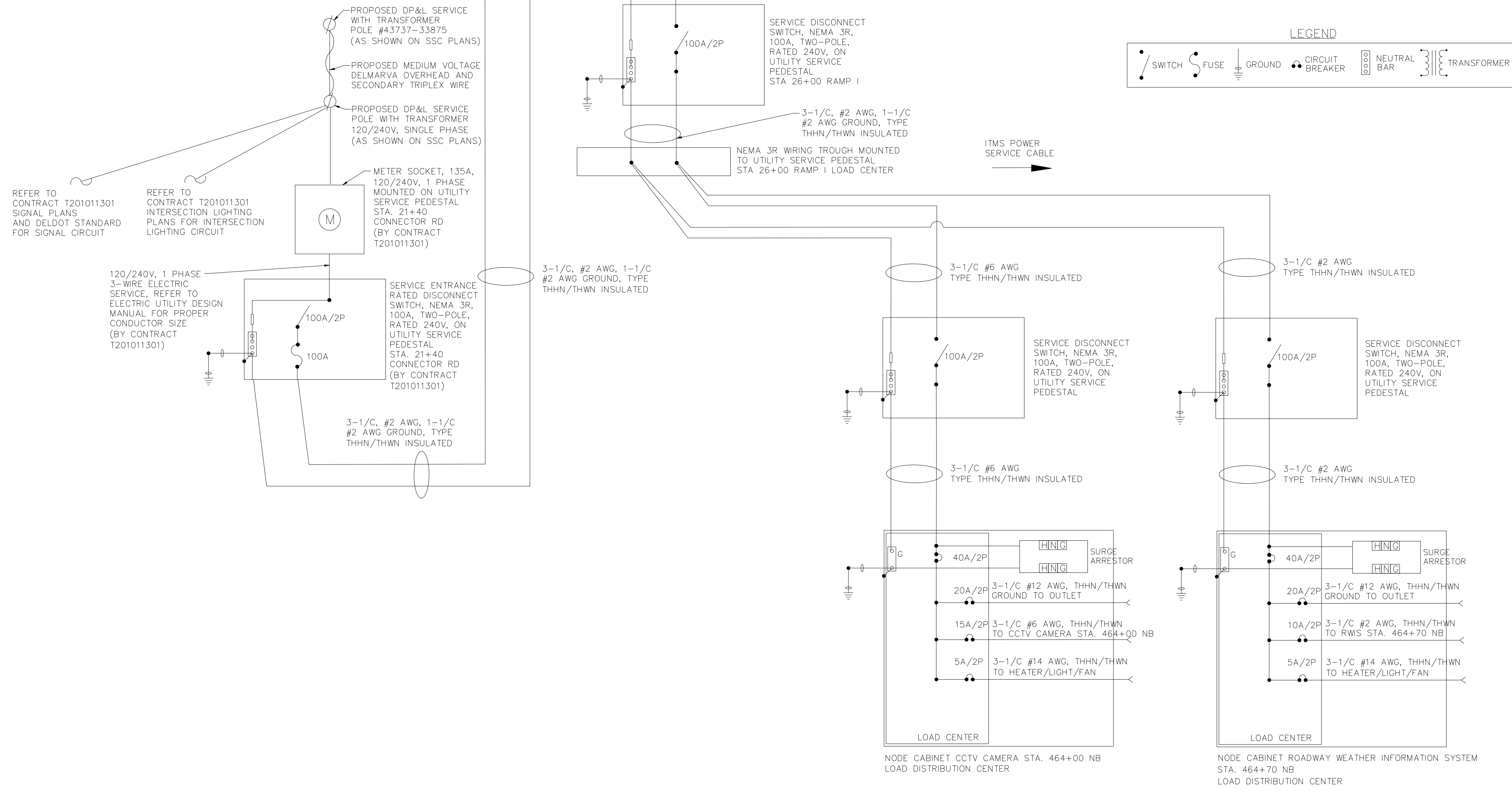


- NOTES:
1. PROPOSED 100 AMP 120/240V, SINGLE PHASE, 3 WIRE ELECTRICAL SERVICE TO BE INSTALLED FOR ITMS DEVICES SHOWN.
 2. ALL SERVICE DISCONNECT SWITCHES AND SERVICE METER SOCKETS TO BE DELMARVA POWER ENDORSED OR APPROVED EQUAL.
 3. EXACT LOCATION OF ELECTRICAL SERVICE TO BE COORDINATED WITH DELMARVA POWER PENDING UTILITY RELOCATION DESIGN. DELMARVA POWER HAS CONFIRMED AVAILABILITY OF ELECTRICAL SERVICE AS PER CONTRACT CONDUIT PLANS.
 4. PROVIDE 200 AMP, 480/277V, 3 PHASE, 4 WIRE ELECTRICAL SERVICE FOR RAMP TOLL PLAZA. REFER TO TOLL PLAZA PLANS FOR DETAILS AND ONE LINE DIAGRAM.

CHOPTANK RD ELECTRICAL SERVICE DETAIL
NTS

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	ADDENDUMS / REVISIONS		NOT TO SCALE	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	SIGNING, STRIPING & CONDUIT DETAILS	SS-61
					T20091303	DESIGNED BY: JE JW		SHEET NO.
					COUNTY	CHECKED BY: DB SF		1095
					NEW CASTLE			TOTAL SHTS.
								1256



CONNECTOR ROAD ITMS ELECTRICAL SERVICE DETAIL
NTS

NOTES:

1. PROPOSED 100 AMP 120/240V, SINGLE PHASE, 3 WIRE ELECTRICAL SERVICE TO BE INSTALLED FOR ITMS DEVICES SHOWN.
2. ALL SERVICE DISCONNECT SWITCHES AND SERVICE METER SOCKETS TO BE DELMARVA POWER ENDORSED OR APPROVED EQUAL.
3. EXACT LOCATION OF ELECTRICAL SERVICE TO BE COORDINATED WITH DELMARVA POWER PENDING UTILITY RELOCATION DESIGN. DELMARVA POWER HAS CONFIRMED AVAILABILITY OF ELECTRICAL SERVICE AS PER CONTRACT CONDUIT PLANS.
4. A 2P (240V) CIRCUIT BREAKER SHALL BE PROVIDED FOR THE DEDICATED ROADWAY WEATHER INFORMATION SYSTEM (RWIS) CIRCUIT.
5. PROVIDE 200 AMP, 480/277V, 3 PHASE, 4 WIRE ELECTRICAL SERVICE FOR RAMP TOLL PLAZA. REFER TO TOLL PLAZA PLANS FOR DETAILS AND ONE LINE DIAGRAM.

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ADDENDUMS / REVISIONS	

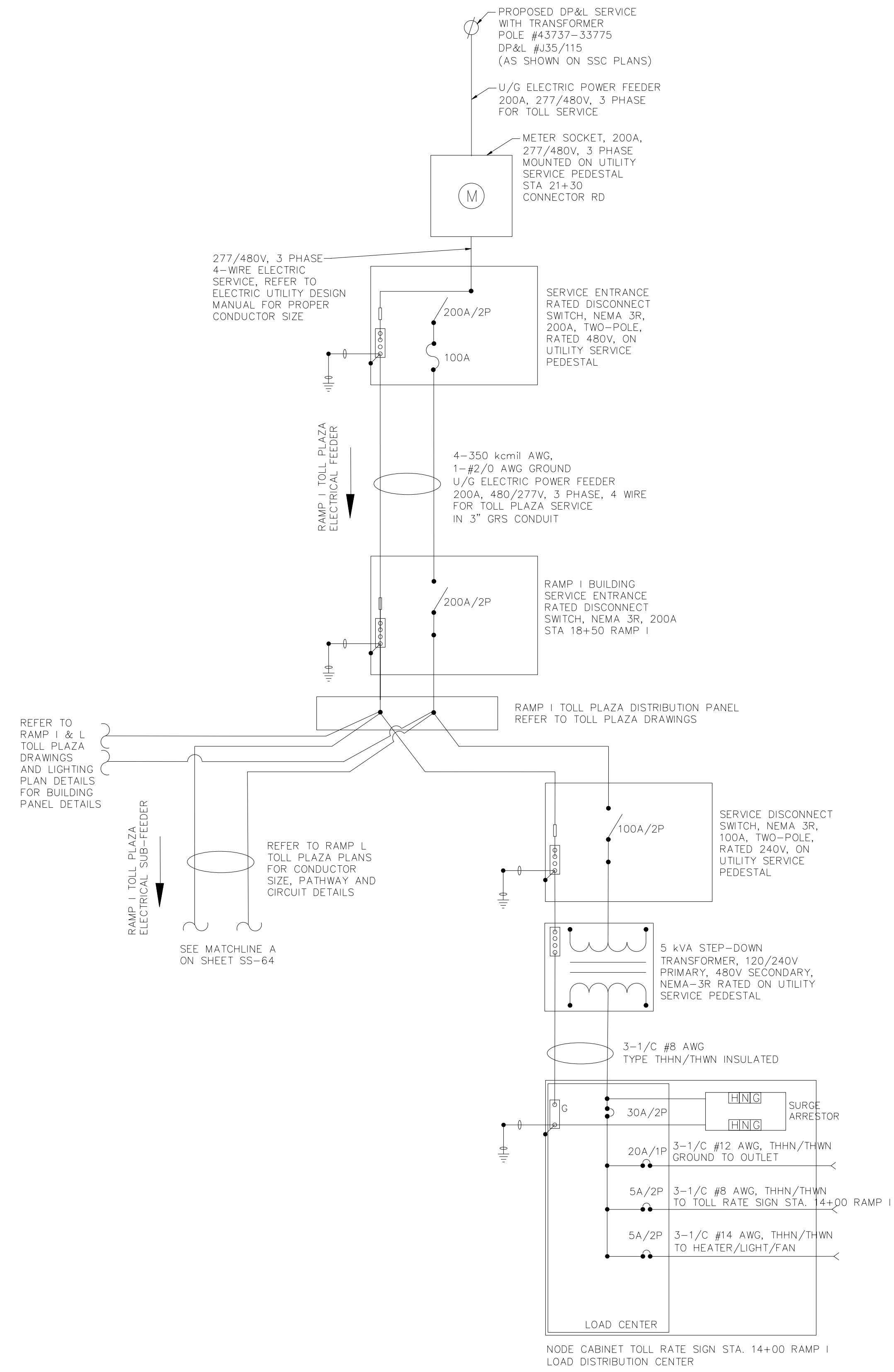
NOT TO SCALE

US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JE JW
COUNTY	CHECKED BY:	DB SF
NEW CASTLE		

SIGNING, STRIPING &
CONDUIT DETAILS

SS-62
SHEET NO.
1096
TOTAL SHTS.
1256



CONNECTOR ROAD ELECTRICAL SERVICE DETAIL
NTS

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ADDENDUMS / REVISIONS	

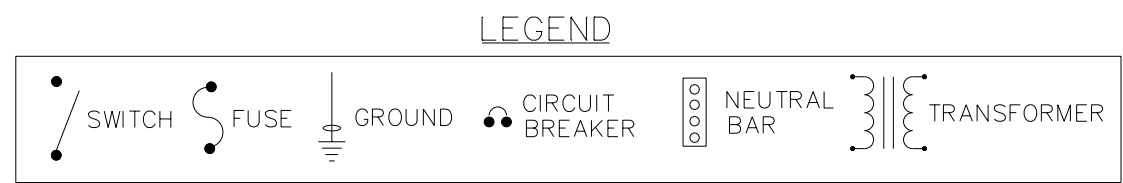
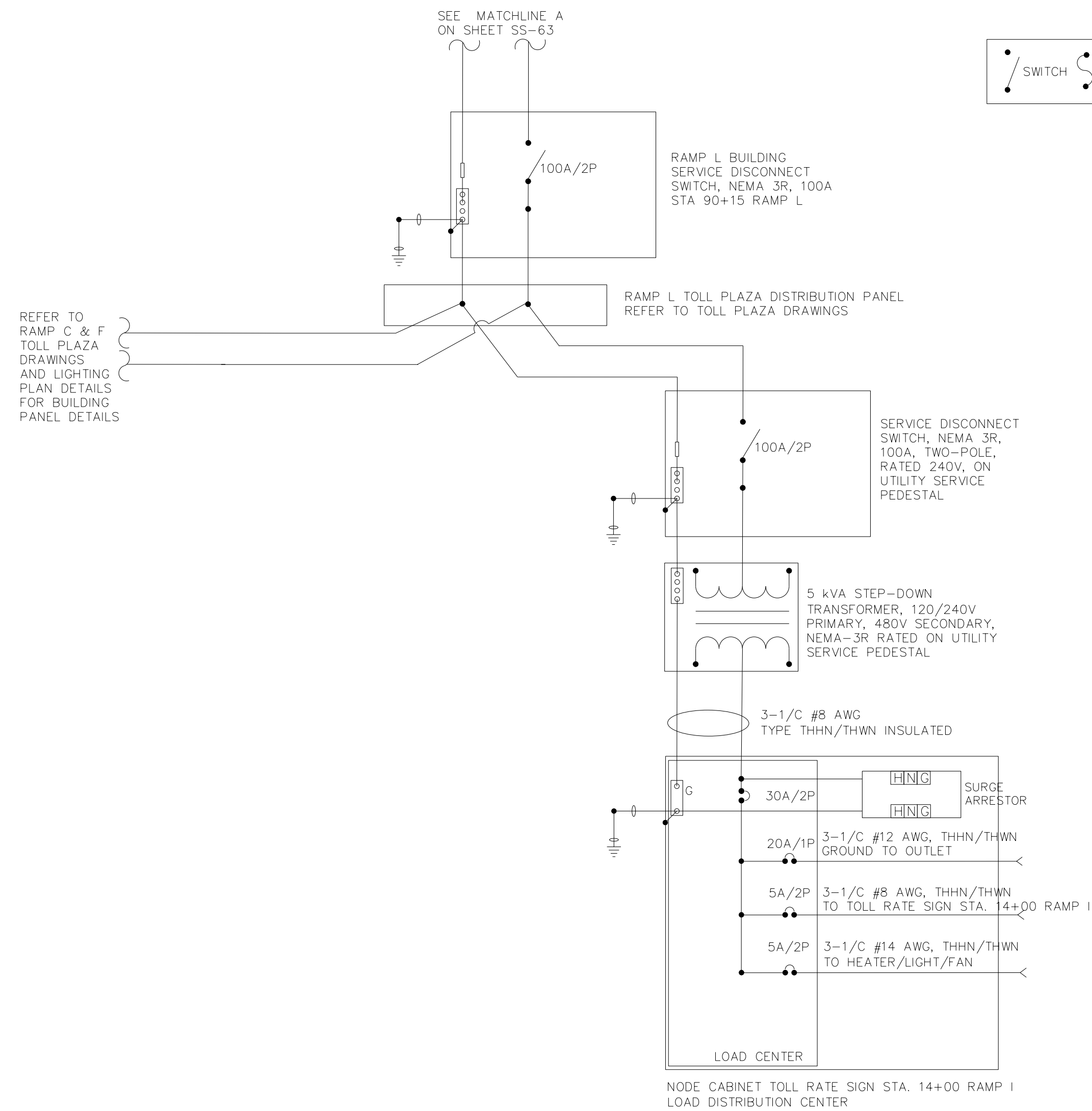
NOT TO SCALE

**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JE JW
COUNTY	CHECKED BY:	DB SF
NEW CASTLE		

**SIGNING, STRIPING &
CONDUIT DETAILS**

SS-63
SHEET NO.
1097
TOTAL SHTS.
1256



- NOTES:
1. ALL SERVICE DISCONNECT SWITCHES AND SERVICE METER SOCKETS TO BE DELMARVA POWER ENDORSED OR APPROVED EQUAL.
 2. TOLL BUILDING DESIGN LOADS AND SERVICE DETAILS ARE PROVIDED BY TOLL PLAZA DRAWINGS. REFER TO TOLL PLAZA DRAWINGS FOR ADDITIONAL DETAILS AND CONDUIT SERVICE AND PATHWAY BETWEEN BUILDINGS.
 3. PROVIDE 200 AMP, 480/277V, 3 PHASE, 4 WIRE ELECTRICAL SERVICE FOR RAMP TOLL PLAZA. REFER TO TOLL PLAZA PLANS FOR SERVICE DETAILS AND ONE LINE DIAGRAM.

CONNECTOR ROAD ELECTRICAL SERVICE DETAIL
NTS

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ADDENDUMS / REVISIONS	

NOT TO SCALE

US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JE JW
COUNTY	CHECKED BY:	DB SF
NEW CASTLE		

SIGNING, STRIPING & CONDUIT DETAILS

SS-64
SHEET NO.
1098
TOTAL SHTS.
1256

GENERAL NOTES:

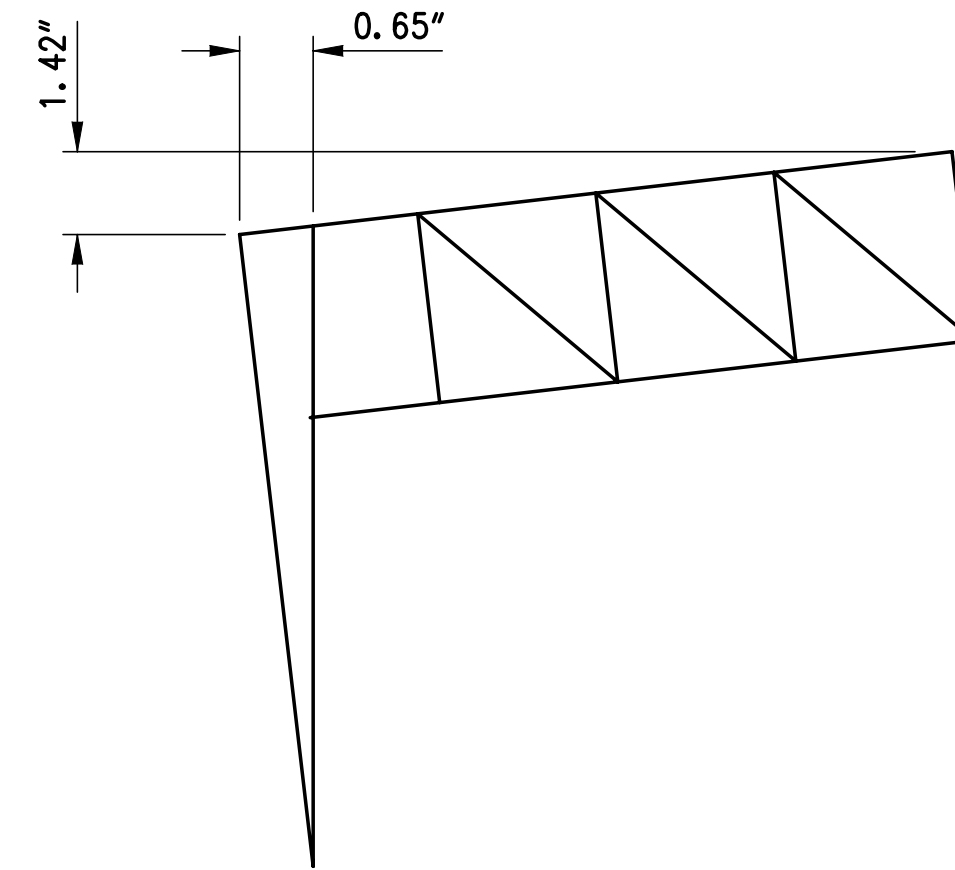
1. PROVIDE MATERIALS AND WORKMANSHIP IN THE ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, ANSI/AASHTO/AWS D1.5-2002 BRIDGE WELDING CODE AND CONTRACT SPECIAL PROVISIONS. USE ANSI/AWS/D1.1-2002 FOR WELDING NOT COVERED IN ANSI/AASHTO/AWS/D1.5-2002. WELDING OF STEEL SHALL BE AS SPECIFIED IN THE CONSTRUCTION SPECIFICATIONS.
2. DESIGN SPECIFICATIONS: AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS 2009, 5TH EDITION.
3. ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.
4. USE CLASS A CEMENT CONCRETE $f'c = 4500$ PSI IN PEDESTALS AND FOOTINGS.
5. CHAMFER EXPOSED CONCRETE EDGES $3/4" \times 3/4"$ EXCEPT AS NOTED.
6. PROVIDE A MINIMUM OF 2" CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.
7. PROVIDE GRADE 60 REINFORCEMENT BARS THAT MEET THE REQUIREMENTS OF ASTM A615/A 615-96A FOR CONCRETE REINFORCEMENT. DO NOT WELD REINFORCEMENT BARS.
8. PROVIDE MINIMUM LAP AND EMBEDMENT LENGTH IN ACCORDANCE WITH AASHTO REQUIREMENTS.
9. RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS EXCEPT AS NOTED.
10. SIGN STRUCTURES DESIGNED TO ACCOMMODATE AN ADDITIONAL 15% OF PROPOSED SIGN AREA.
11. THE DESIGN WIND VELOCITY IS 100 MPH.
12. THE DESIGN ICE LOAD IS 3 PSF.
13. ALL STRUCTURAL DETAILS HAVE BEEN DESIGNED FOR FATIGUE RESISTANCE UNDER FATIGUE CATEGORY 1 ACCORDING TO AASHTO'S STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. THE FOLLOWING LOADS WERE USED:
 - GALLOPING (21 PSF)-CANTILEVER SIGNS ONLY
 - NATURAL WIND GUST ($5.2 * Cd$ PSF)
 - TRUCK INDUCED GUSTS ($18.8 * Cd$ PSF)
14. PROVIDE STRUCTURAL STEEL CONFORMING TO THE FOLLOWING:
 - ASTM A 53, TYPE S, GRADE B, $Fy = 35$ KSI FOR PIPE COLUMNS, CHORDS, AND STRUTS.
 - AASHTO M 270M, GRADE 36 (ASTM A709M, GRADE 36) FOR SHAPES, AND PLATES. ALL OF THIS SPECIFICATION STEEL SHALL MEET SUPPLEMENTARY REQUIREMENTS FOR NOTCH TOUGHNESS (CHARPY TESTING, ZONE #2 NON-FRACTURE CRITICAL).
15. PROVIDE ANCHOR BOLT HOLES $1/4"$ LARGER THAN BOLT DIAMETER. PROVIDE BOLT HOLES $1/4"$ LARGER THAN BOLT DIAMETER.
16. USE TEMPLATES TO ACCURATELY SET BASE PLATE ANCHOR BOLTS TO CORRECT ELEVATION AND ALIGNMENT. SECURELY BRACE ANCHOR BOLTS AGAINST DISPLACEMENT BEFORE PEDESTAL CONCRETE IS PLACED AND DURING CONCRETE CURING.
17. GROUT PADS SHALL NOT BE USED. BASE PLATES AND EXPOSED ANCHOR BOLTS SHALL BE PLACED SO RUN-OFF AND/OR RAIN WATER CANNOT RUN ONTO OR POND AT THIS AREA.
18. MODIFICATIONS TO ANY TRUSS-CHORD GUSSET PLATE CONNECTION IN ORDER TO ACCOMMODATE SIGN PANEL SUPPORTS SHALL NOT BE PERMITTED.
19. PROVIDE DOUBLE NUTS AND WASHERS FOR EACH ANCHOR BOLT.
20. ALL STRUCTURAL STEEL SHALL BE GALVANIZED AND SHALL CONFORM TO ASTM A123 OR ASTM A153, ASTM A143, AND ASTM A385.
21. GALVANIZED HIGH STRENGTH BOLTS SHALL CONFORM TO AASHTO M164/ASTM A325.
22. GALVANIZED HEAT TREATED NUTS SHALL CONFORM TO AASHTO M292/ASTM A194 OR AASHTO M291/ASTM A563 GRADE 2H, DH. GALVANIZED HARDENED STEEL WASHERS SHALL CONFORM TO AASHTO M293/ASTM F436.

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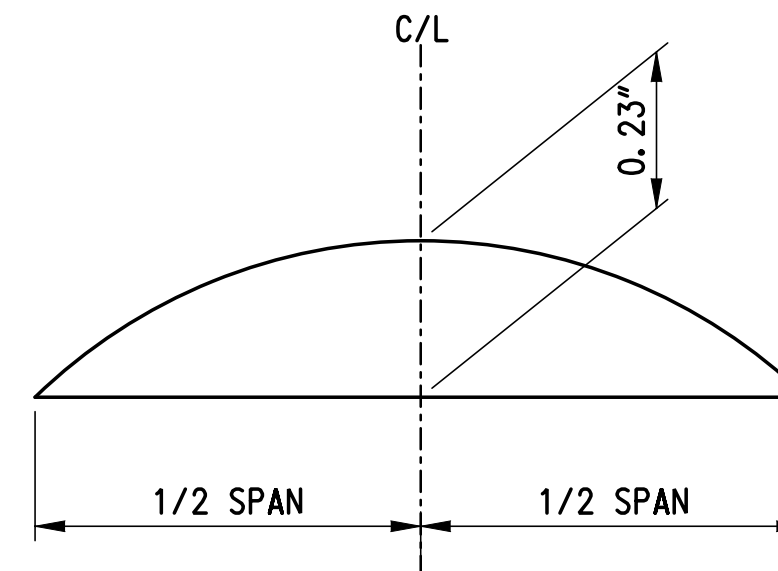
 DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	SIGN STRUCTURES GENERAL NOTES	SHEET NO.	
				T20091303			DESIGNED BY: MJM	1099
				COUNTY			CHECKED BY: RMG	TOTAL SHTS.
				NEW CASTLE				1256

GENERAL NOTES (CON'T):

- 23. GALVANIZED ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM F1554 GRADE 55.
- 24. INSTALL ACCESS HOLES ON POLE OPPOSITE DIRECTION OF TRAFFIC.
- 25. DIMENSIONS ARE BASED ON A NORMAL TEMPERATURE OF 68°F
- 26. VERIFY ALL ELEVATIONS AND DIMENSIONS IN THE FIELD BEFORE ORDERING ANY MATERIALS.
- 27. FOOTINGS WILL BE POURED AGAINST FILL COMPACTED TO 98% RELATIVE MAXIMUM DENSITY OR ON UNDISTURBED MATERIAL.
- 28. DIVERT ALL SURFACE RUNOFF AWAY FROM EXCAVATIONS. PERFORM ALL EXCAVATIONS IN ACCORDANCE WITH OSHA REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT DEWATERING SO THAT EXCAVATIONS ARE DRY ENOUGH FOR INSPECTION AND CONSTRUCTION. DESIGN AND PROVIDE TEMPORARY SUPPORTS AS REQUIRED TO RETAIN EXCAVATED EARTH SURFACES IN ACCORDANCE WITH DELDOT SPECIFICATION SECTION 207.
- 29. COORDINATE, LOCATE, AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH DELDOT UTILITIES MANUAL. VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO STARTING WORK. CONDUCT OPERATIONS IN A MANNER WHICH ENSURES THAT THE UTILITIES WILL NOT BE DISTURBED OR ENDANGERED, AND ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO UTILITIES DURING CONSTRUCTION. THE DEPARTMENT DOES NOT ASSUME RESPONSIBILITY FOR REIMBURSEMENT, PARTICIPATION IN DESIGN AND/OR REVISIONS, OR LIABILITY FOR ACCURACY OF TYPE, SIZE, AND LOCATION OF ANY UTILITY.
- 30. PIPE, COLUMNS, AND CHORDS ARE DENOTED BY DIAMETER AND THICKNESS.
- 31. DYNAMIC MESSAGE SIGN STRUCTURAL DESIGN FOR 4 POST 4 CHORD GANTRY IS BASED ON A SIGN SURFACE AREA OF 33'-1" BY 8'-0" AND A DEPTH OF 3'-1 1/2". DESIGN SIGN WEIGHT IS 3200 LBS.
- 32. PROVIDE CONNECTIONS AT SUPPORTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SHOP DRAWINGS FOR STRUCTURAL STEEL SHALL BE SUBMITTED FOR APPROVAL.
- 33. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN, PROTECT, AND REPAIR COMPLETED WORK AND ADJACENT AREAS OF THE PAVEMENT OR THE SHOULDER FOR ANY DAMAGE RESULTING FROM CONSTRUCTION VEHICLES, EQUIPMENT, OR FROM NEGLIGENCE.
- 34. VERIFY THE LOCATION OF ALL CONDUIT ROUGH-INS WITH THE EQUIPMENT MANUFACTURER AND COMMISSION'S REPRESENTATIVE, PRIOR TO PLACEMENT OF CONCRETE FOUNDATIONS.
- 35. COORDINATE INSTALLATION WITH THE DMS VENDOR. ENSURE THAT THE DMS VENDOR REPRESENTATIVES WITNESS THE INSTALLATIONS.
- 36. PRIOR TO FABRICATION, CONTRACTOR MUST VERIFY CLEARANCE AND ADJUST THE PROPOSED MOUNTING HEIGHT ACCORDINGLY AND AS DIRECTED BY DELDOT.
- 37. CANTILEVER STRUCTURES SHALL INCLUDE A HORIZONTAL CAMBER OF 1.42" AND A VERTICAL CAMBER OF 0.65".
- 38. OVERHEAD DMS GANTRY SIGN SHALL INCLUDE A CAMBER OF 0.23".
- 39. TRUSS CAMBER FOR CANTILEVER STRUCTURES SHALL BE INCORPORATED DURING FABRICATION. THE CONTRACTOR SHALL ACHIEVE HORIZONTAL CAMBER BY TILTING THE POLE AND ADJUSTING LEVELING NUTS DURING INSTALLATION.



**CANTILEVER SIGNS
CAMBER DIAGRAM**

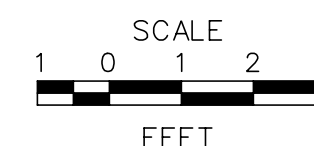


**OVERHEAD GANTRY SIGNS
CAMBER DIAGRAM**

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ADDENDUMS / REVISIONS	



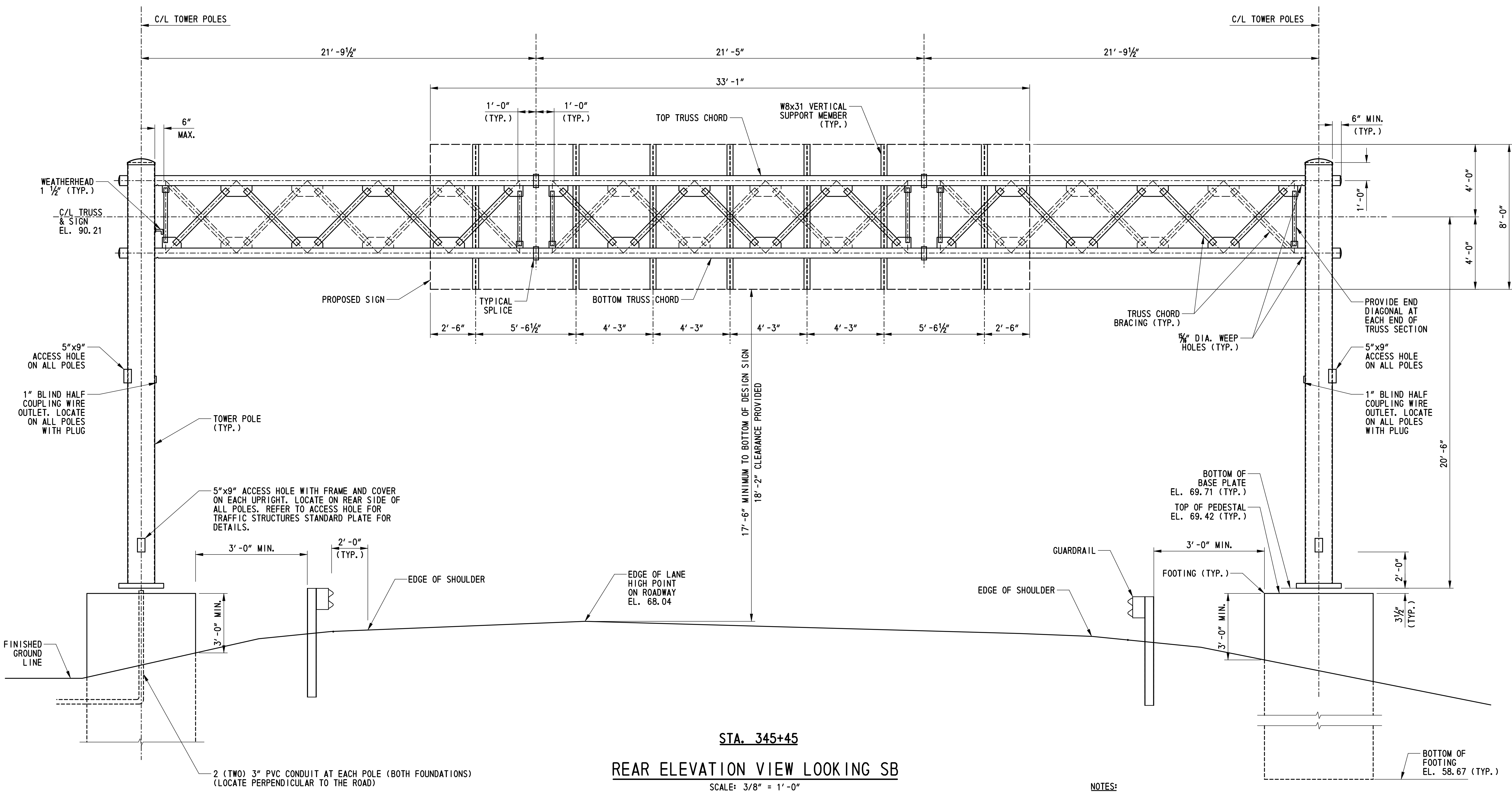
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T20091303	
COUNTY	DESIGNED BY: MJM
NEW CASTLE	CHECKED BY: RMG

**SIGN STRUCTURES
GENERAL NOTES**

SS-66
SHEET NO.
1100
TOTAL SHTS.
1256

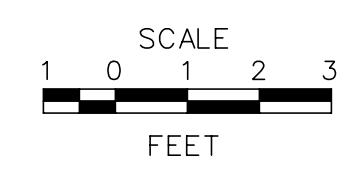
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STA. 345+45
REAR ELEVATION VIEW LOOKING SB
 SCALE: 3/8" = 1'-0"

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET SS-65 & SS-66.
 - FOR STRUCTURE DETAILS, SEE SHEETS SS-68, SS-69 AND SS-70.
 - FOR FOUNDATION DETAILS, SEE SHEET SS-71.

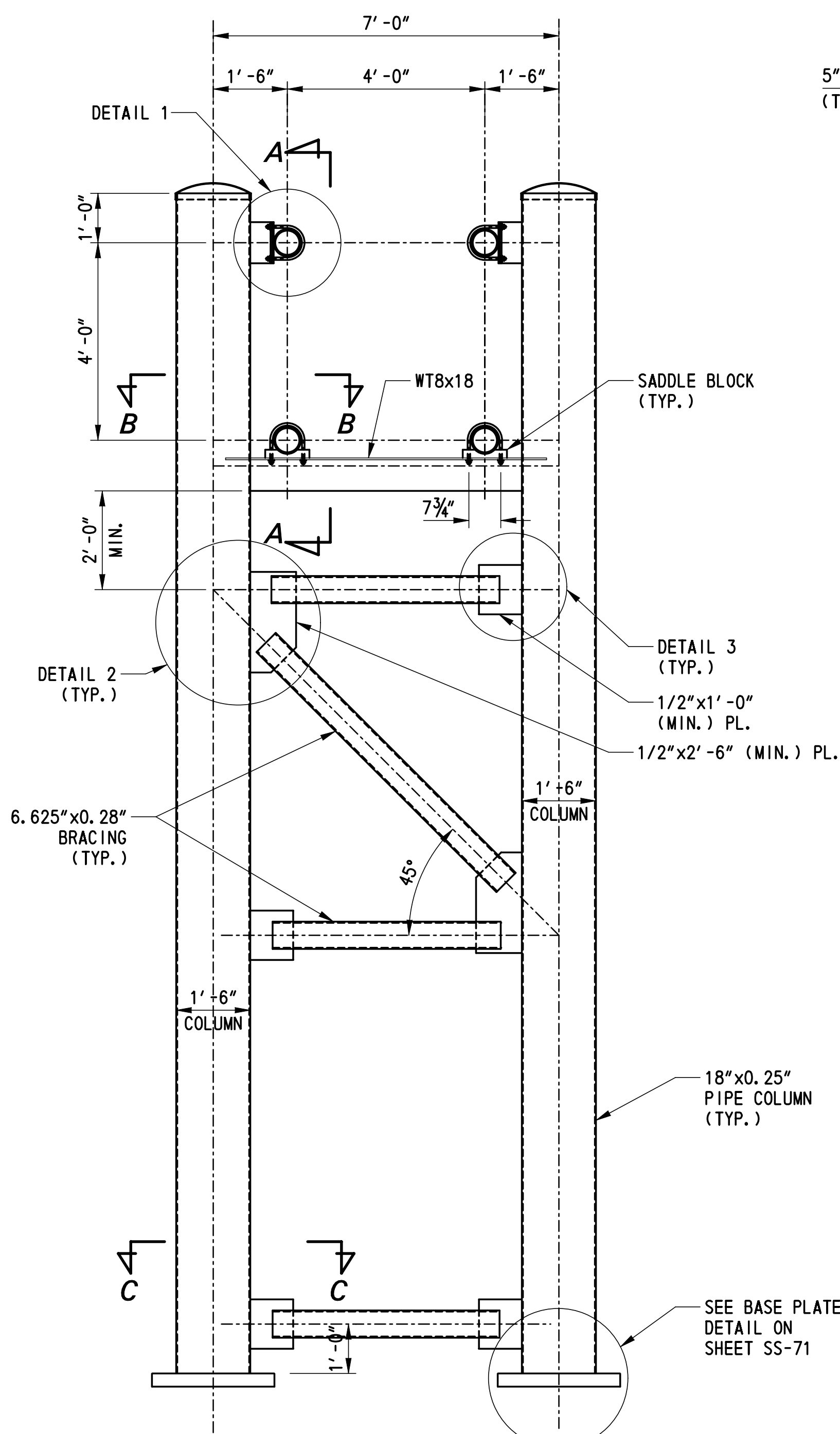
ADDENDUMS / REVISIONS	



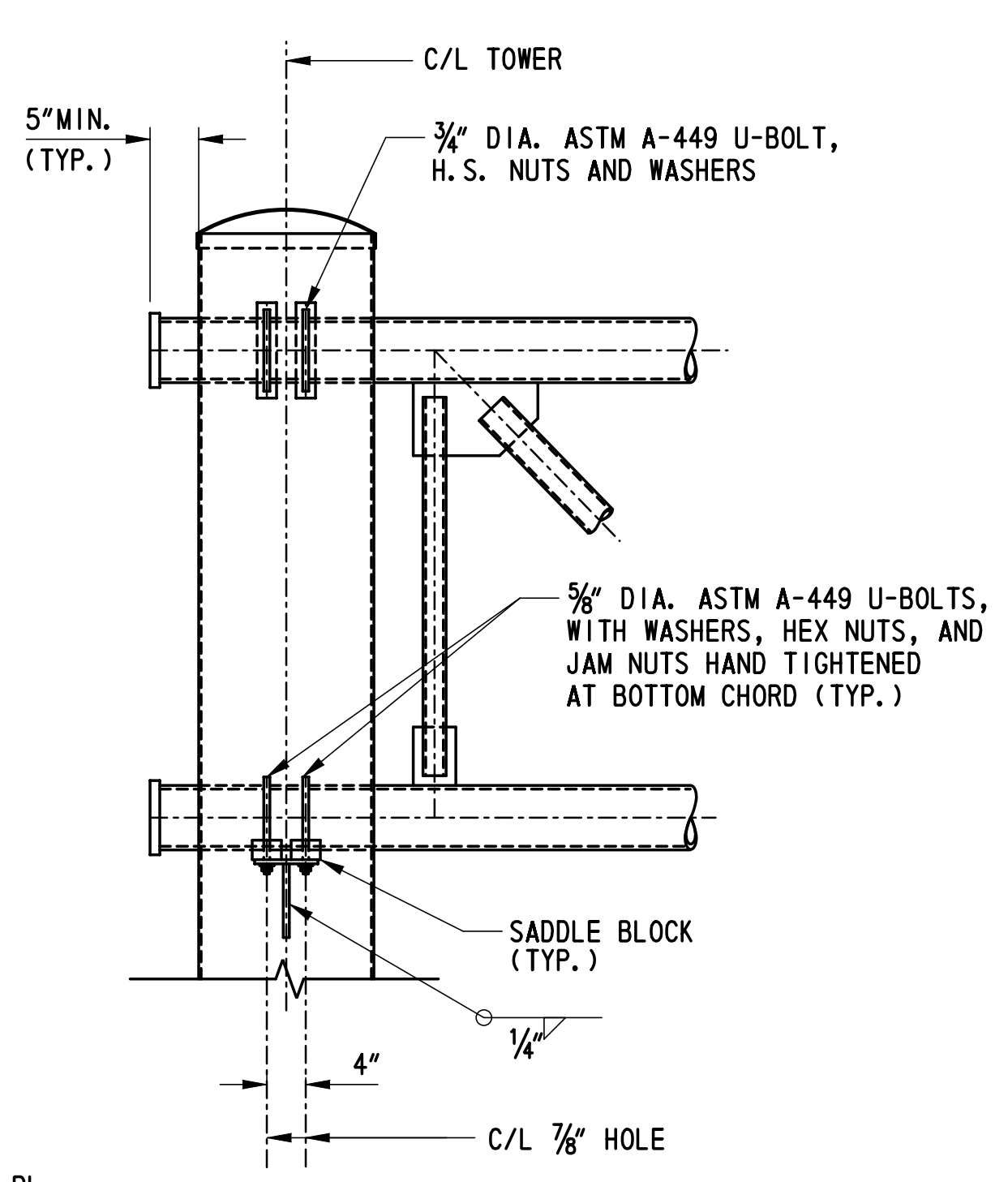
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T20091303	DESIGNED BY: MJM	
COUNTY	CHECKED BY: RMG	
NEW CASTLE		

SS-67
SHEET NO.
1101
TOTAL SHTS.
1256

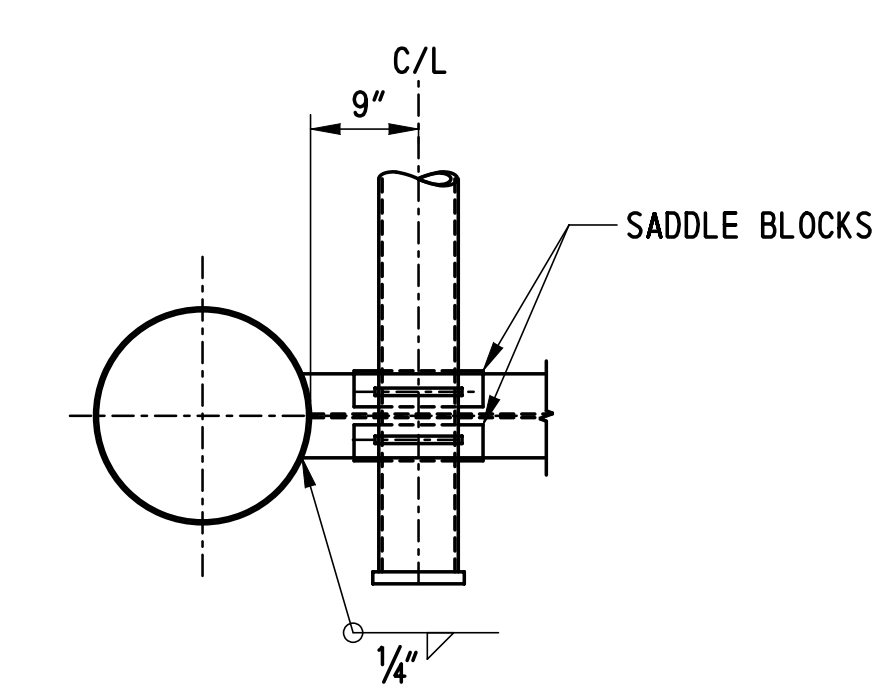
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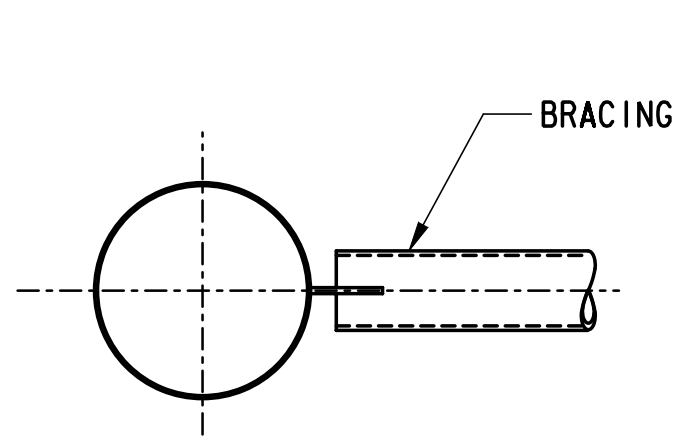
TOWER ELEVATION
SCALE: 1/2" = 1'-0"



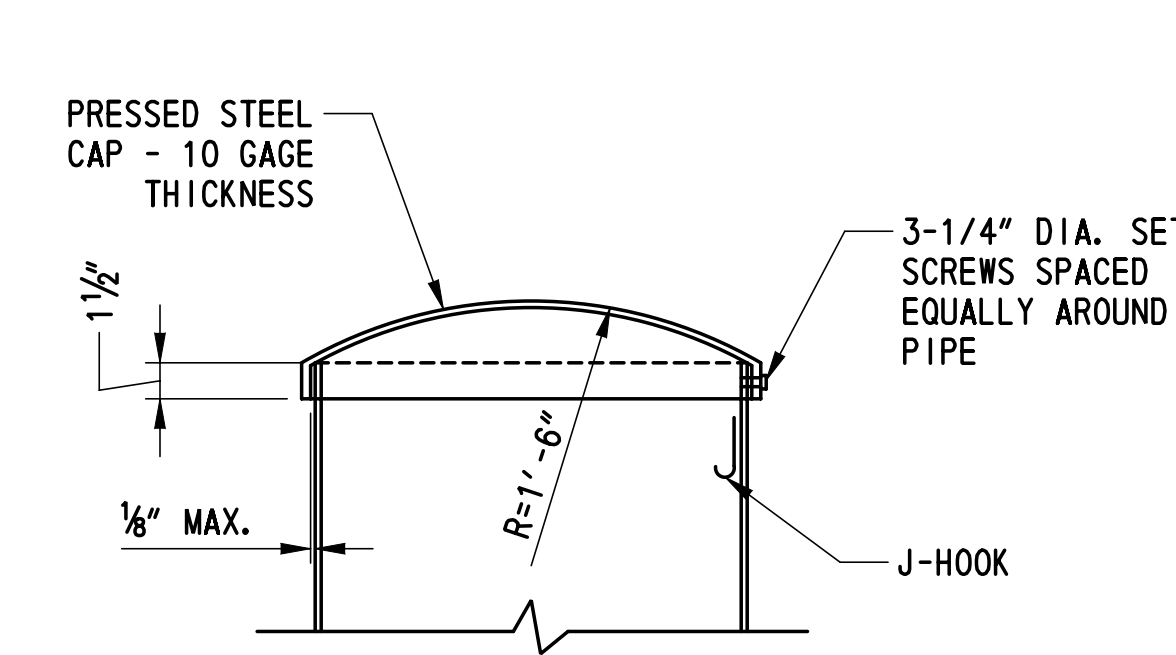
SECTION A-A
SCALE: 3/4" = 1'-0"



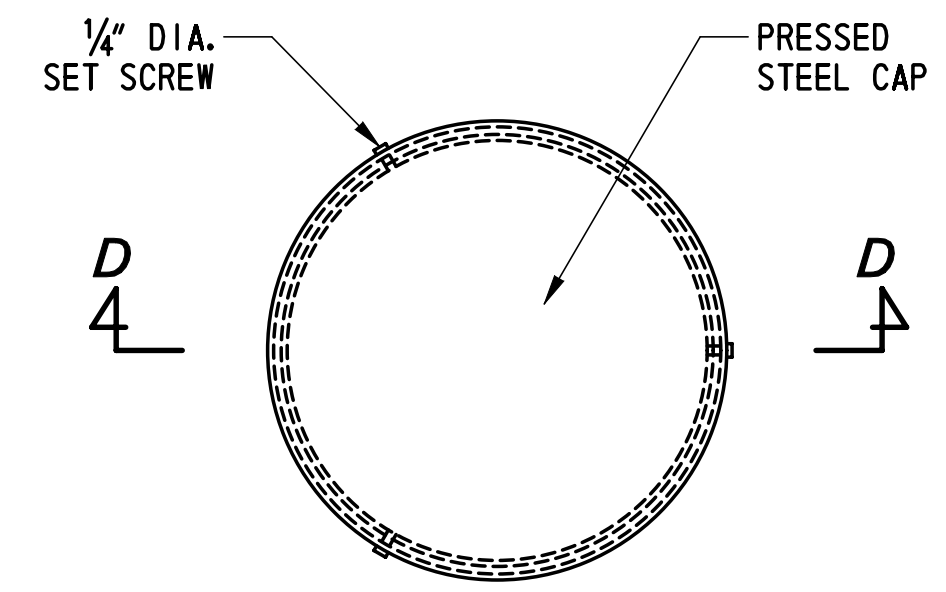
SECTION B-B
SCALE: 3/4" = 1'-0"



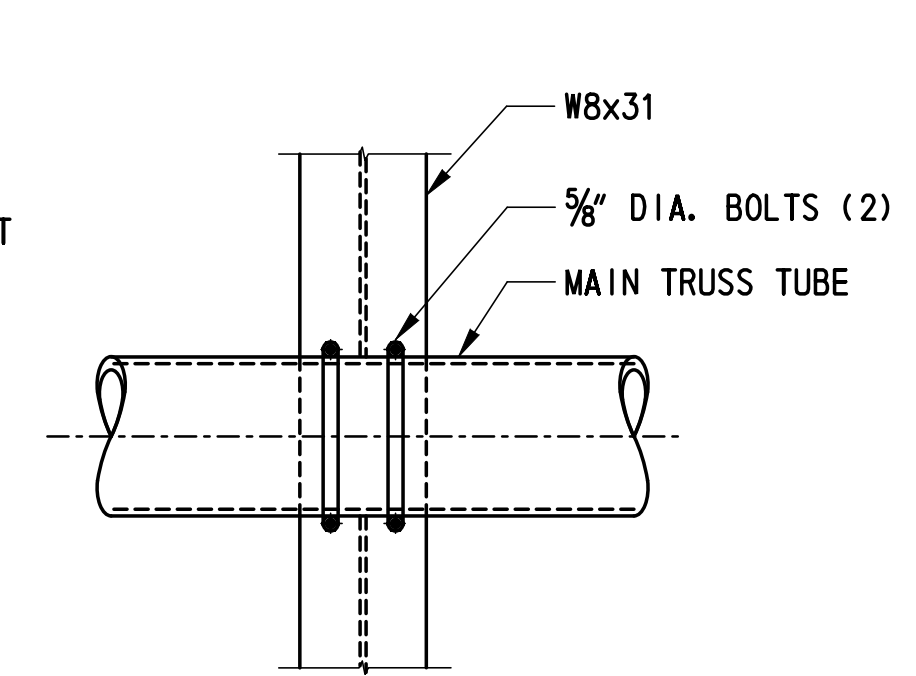
SECTION C-C
SCALE: 3/4" = 1'-0"



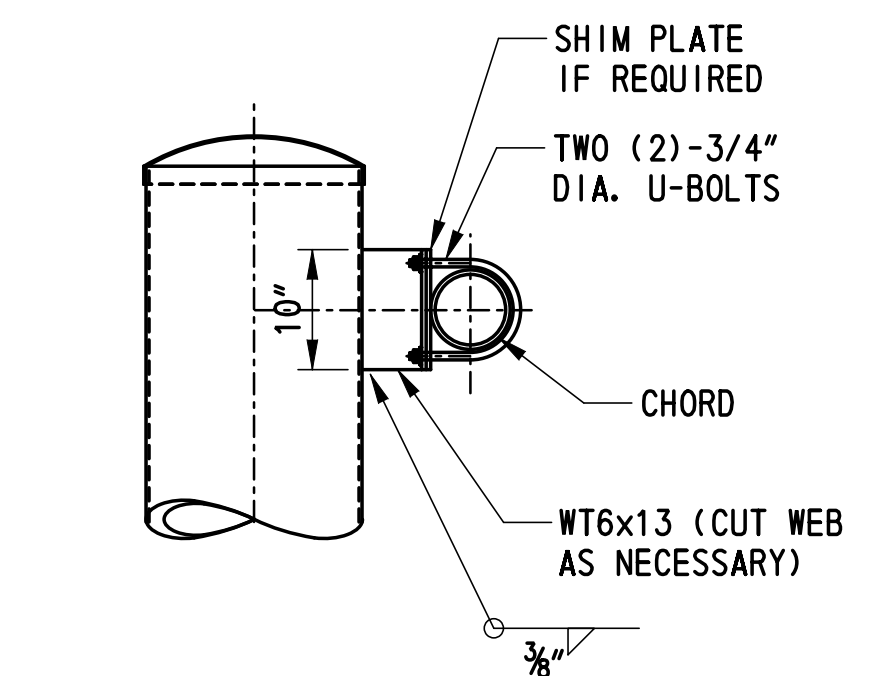
SECTION D-D
SCALE: 1 1/2" = 1'-0"



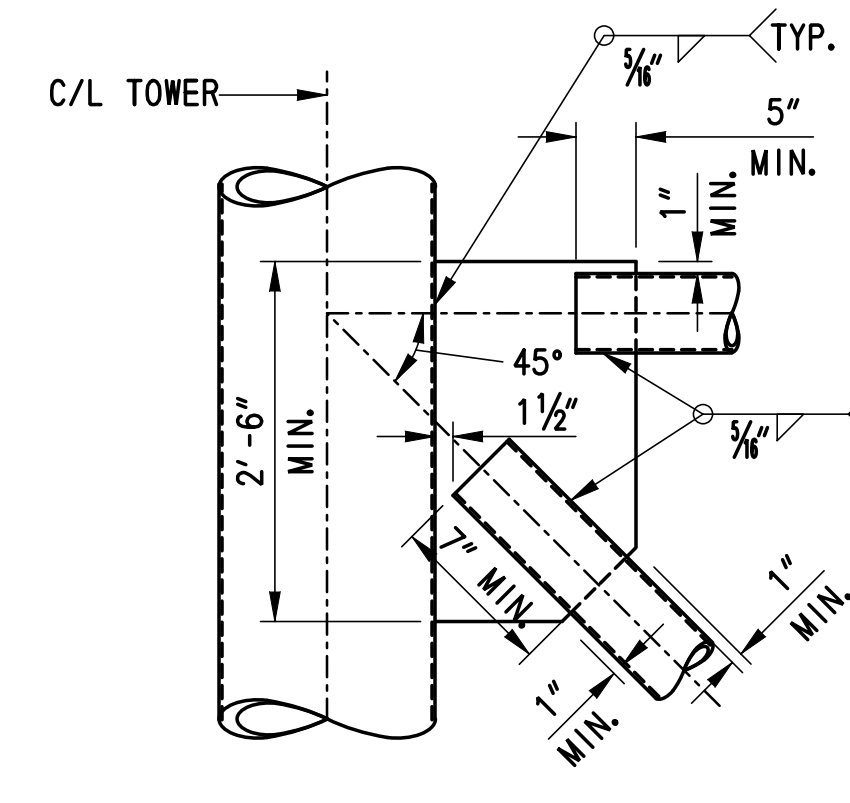
PIPE CAP DETAIL
SCALE: 1 1/2" = 1'-0"



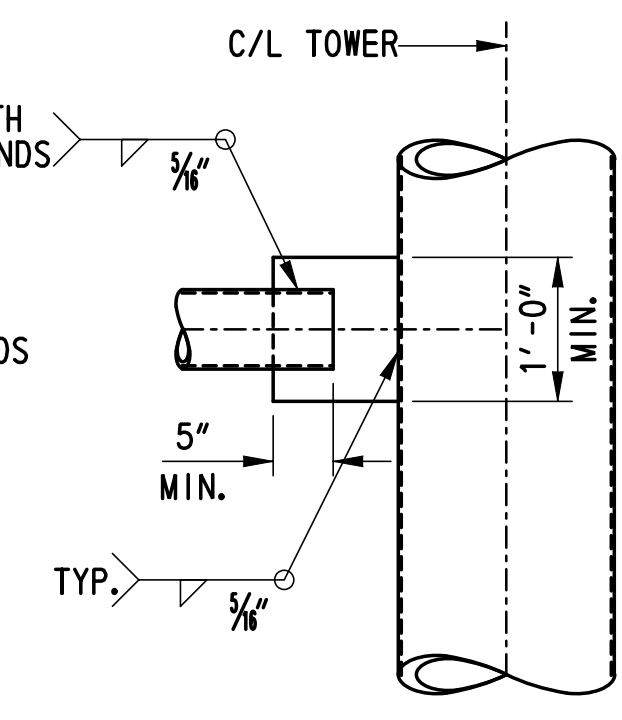
SIGN ATTACHMENT DETAIL
SCALE: 1 1/2" = 1'-0"



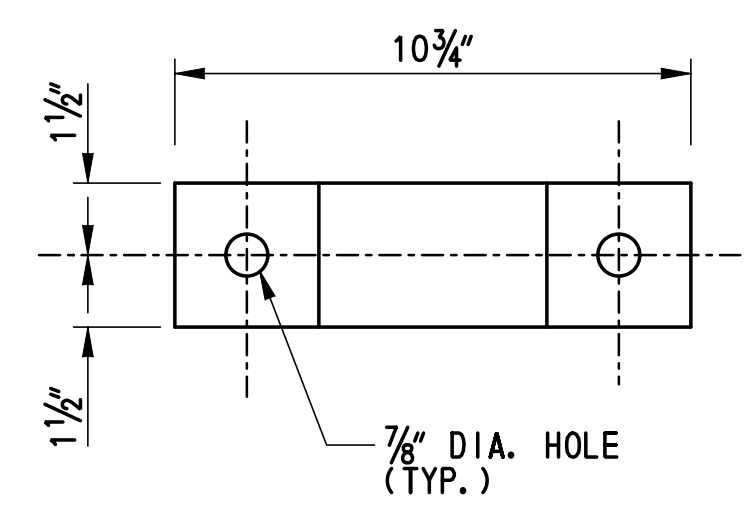
DETAIL 1
SCALE: 3/4" = 1'-0"



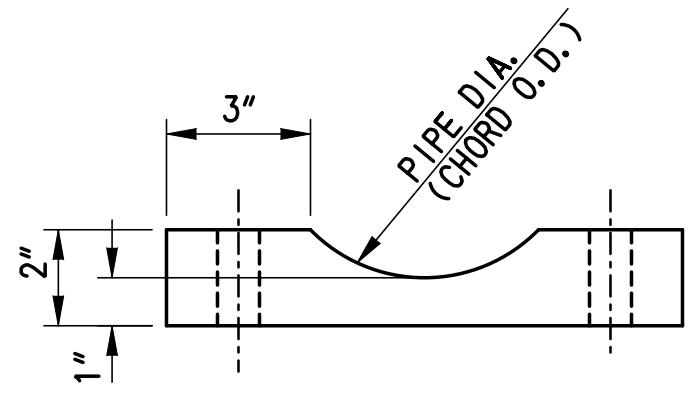
DETAIL 2
SCALE: 3/4" = 1'-0"



DETAIL 3
SCALE: 3/4" = 1'-0"



PLAN



ELEVATION

SADDLE BLOCK DETAIL
SCALE: 3" = 1'-0"

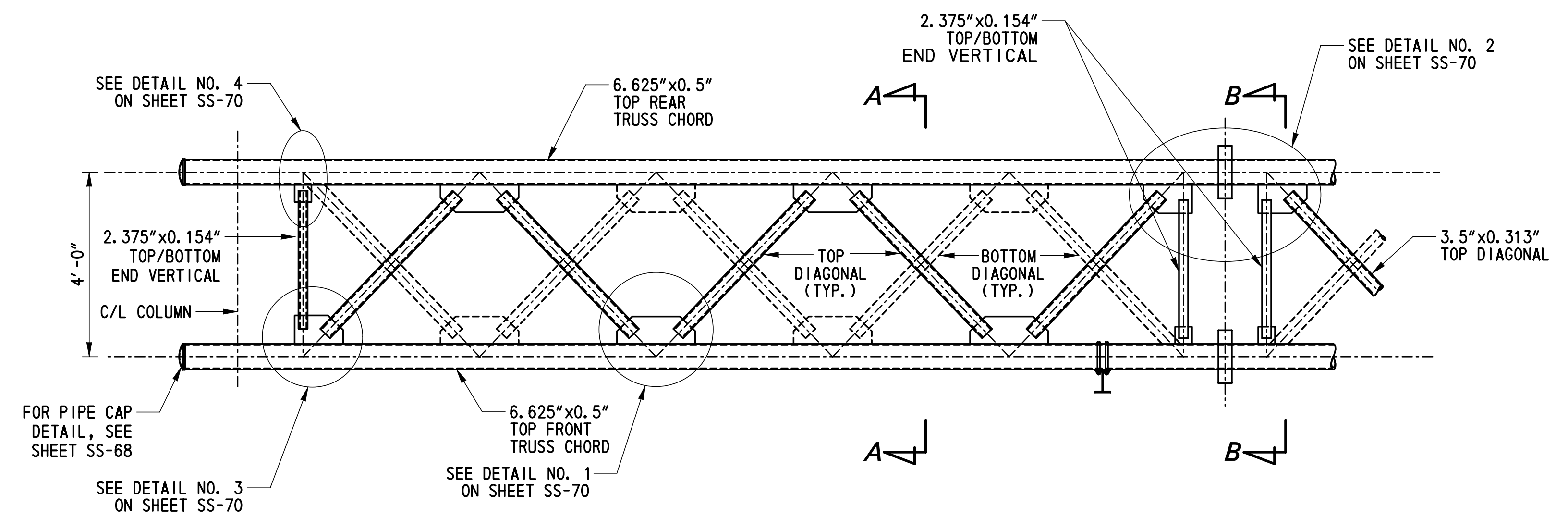
- NOTES:**
- FOR GENERAL NOTES, SEE SHEET. SS-65 & SS-66.
 - FOR ANCHOR BOLT DETAILS, SEE SHEET SS-71.
 - FOR ANCHOR PLATE AND STEEL TEMPLATE DETAILS, SEE SHEET SS-71.
 - TO PREVENT INTERSECTING FILLET WELDS ON OPPOSITE SIDES OF COMMON PLANE, PROVIDE A WELD "HOLDBACK" AT THE EDGE OF THE GUSSET PLATE IN THE BRACING MEMBERS EQUAL TO THE MINIMUM WELD SIZE REQUIRED. ENSURE MINIMUM TOTAL WELD LENGTH ARE ACHIEVED.

ADDENDUMS / REVISIONS

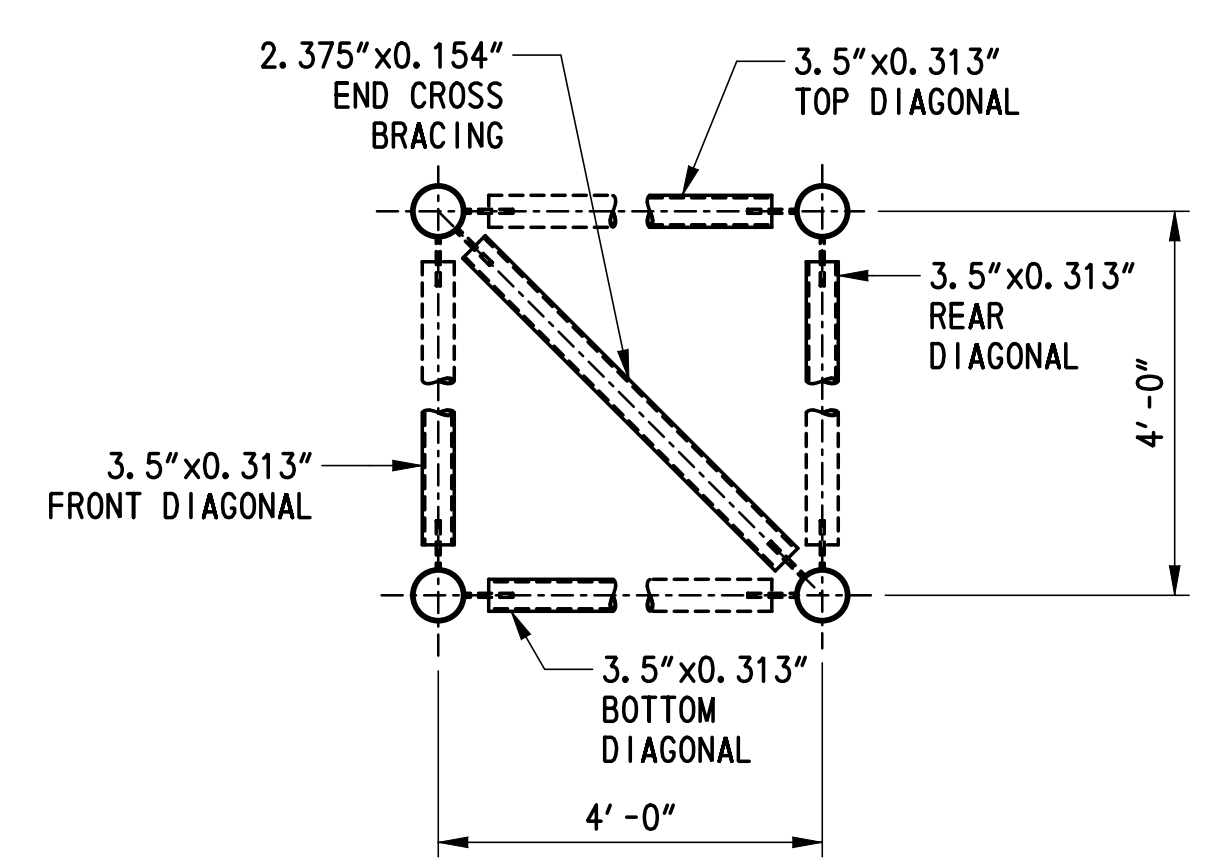
CONTRACT	BRIDGE NO.	SO1416
T20091303	DESIGNED BY:	MJM
COUNTY	CHECKED BY:	RMG
NEW CASTLE		

SS-68
SHEET NO.
1102
TOTAL SHTS.
1256

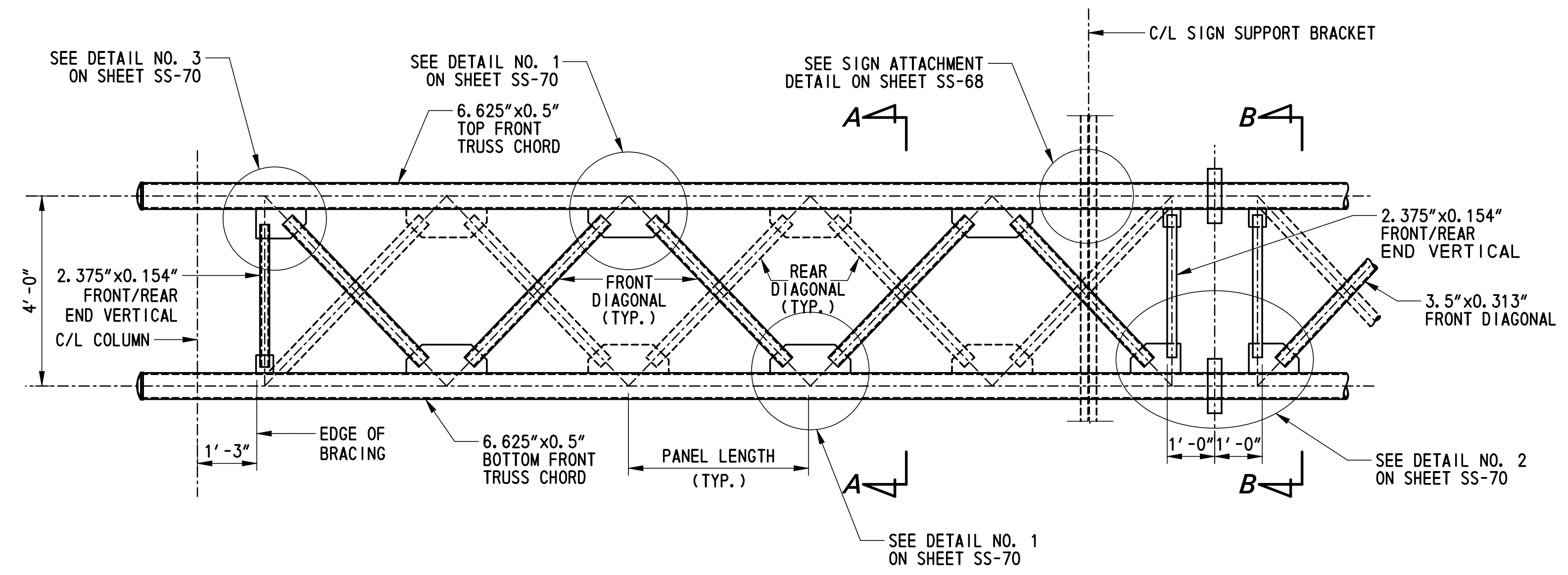
G:\60049040_US301\Structure\Plans\FINAL\SIGN-STRUCT\SS-69.dgn



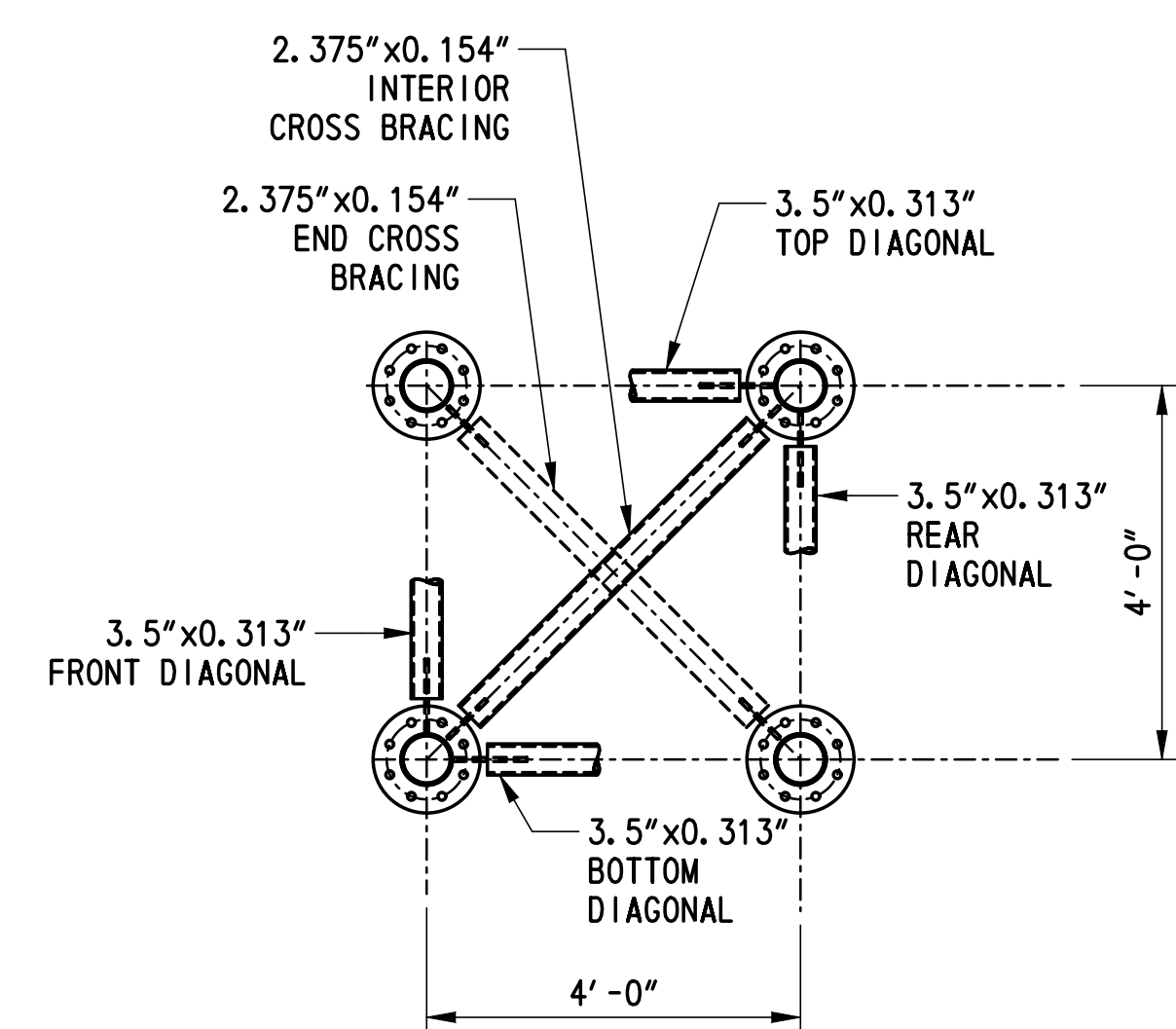
TOP VIEW OF TRUSS
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"



FRONT VIEW OF TRUSS
SCALE: 1/2" = 1'-0"

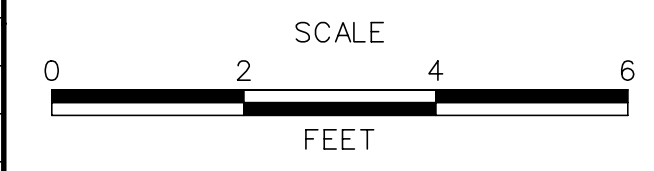


SECTION B-B
SCALE: 1/2" = 1'-0"

NOTES:

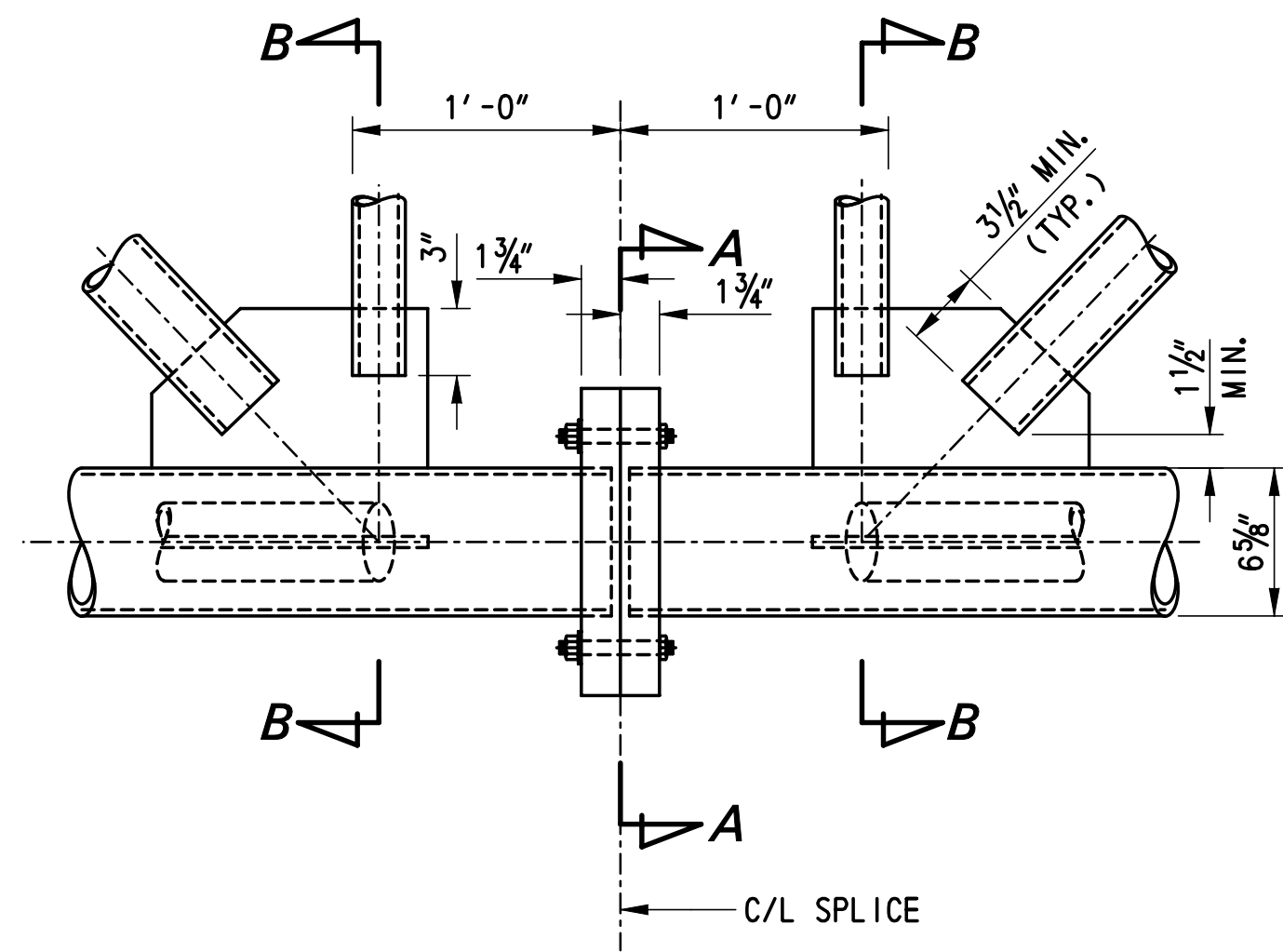
- FOR GENERAL NOTES, SEE SHEET SS-65 & SS-66.
- TEMPORARY END FRAME TO BE USED TO PROVIDE ADDITIONAL SUPPORT TO ENDS OF TRUSS CHORDS DURING FABRICATION AND GALVANIZING PROCESSES. REMOVE AND REPAIR GALVANIZING AT POINTS OF CONTACT PRIOR TO TRUSS ASSEMBLY AND ERECTION. TEMPORARY FRAME IS NOT PART OF THE STRUCTURE AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- TRUSSES SHALL BE FABRICATED WITH CAMBER AT THE CENTER OF THE SPAN EQUAL THE VALUE GIVEN BY THE CAMBER DIAGRAM ON THE CONTRACT DRAWING. ALL TRUSSES SHALL BE ASSEMBLED IN THE SHOP IN A NO LOAD CONDITION TO ENSURE FIT AT SPLICES AND TO CHECK CAMBER.

ADDENDUMS / REVISIONS	

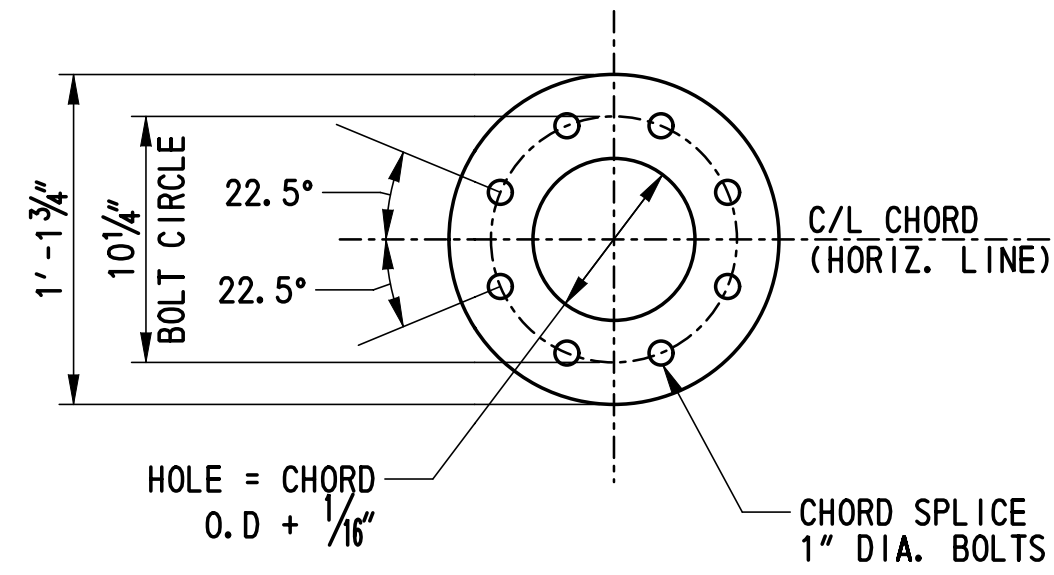


CONTRACT	BRIDGE NO.	SO1416
T20091303	DESIGNED BY:	MJM
COUNTY	CHECKED BY:	RMG
NEW CASTLE		

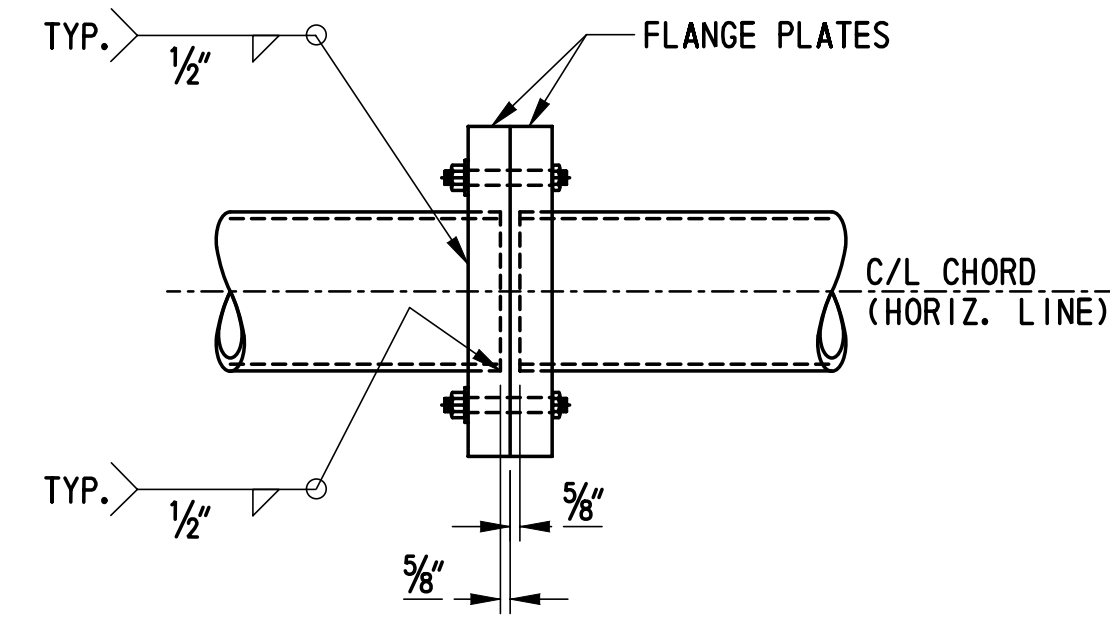
SS-69
SHEET NO.
1103
TOTAL SHTS.
1256



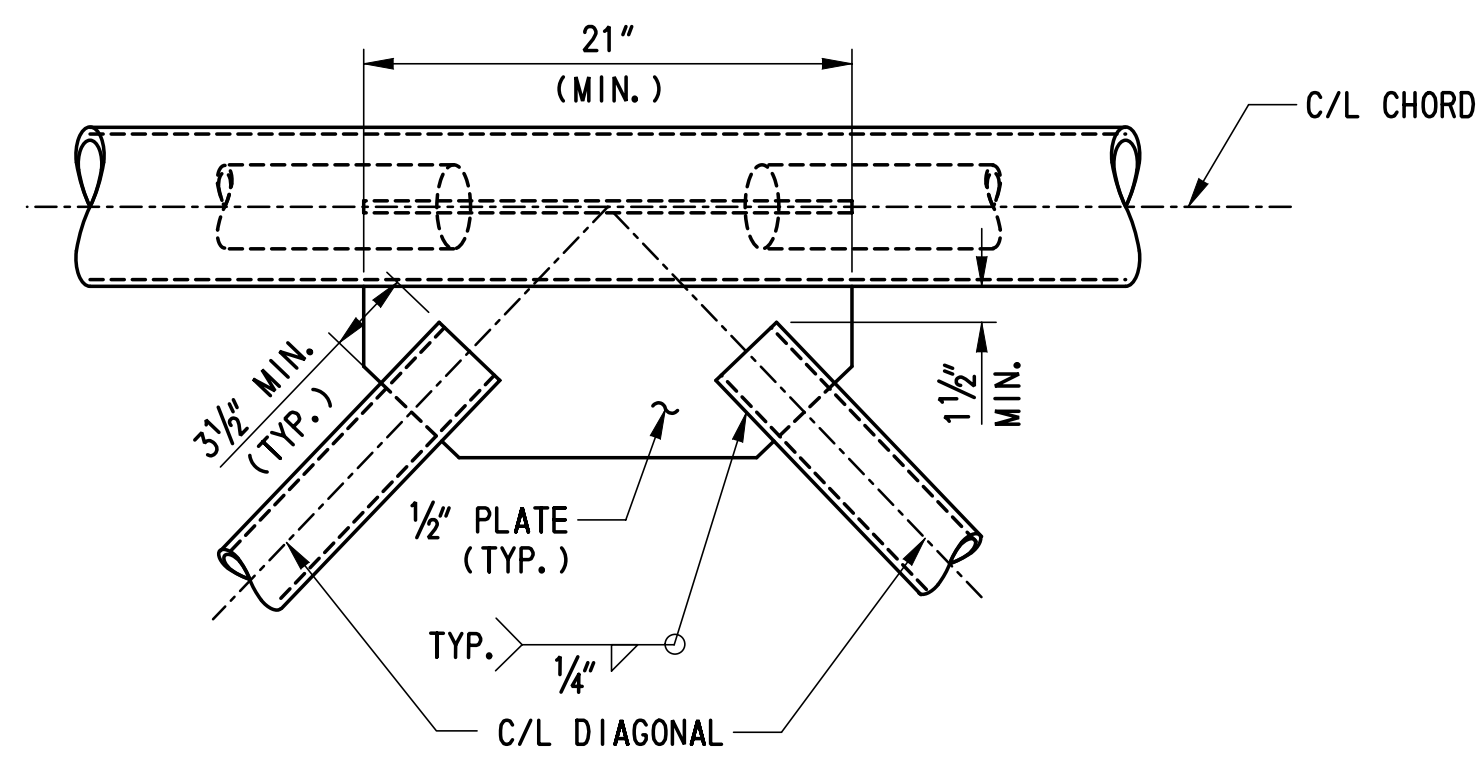
ELEVATION
CHORD SPLICE DETAIL
SCALE: 1 1/2" = 1'-0"



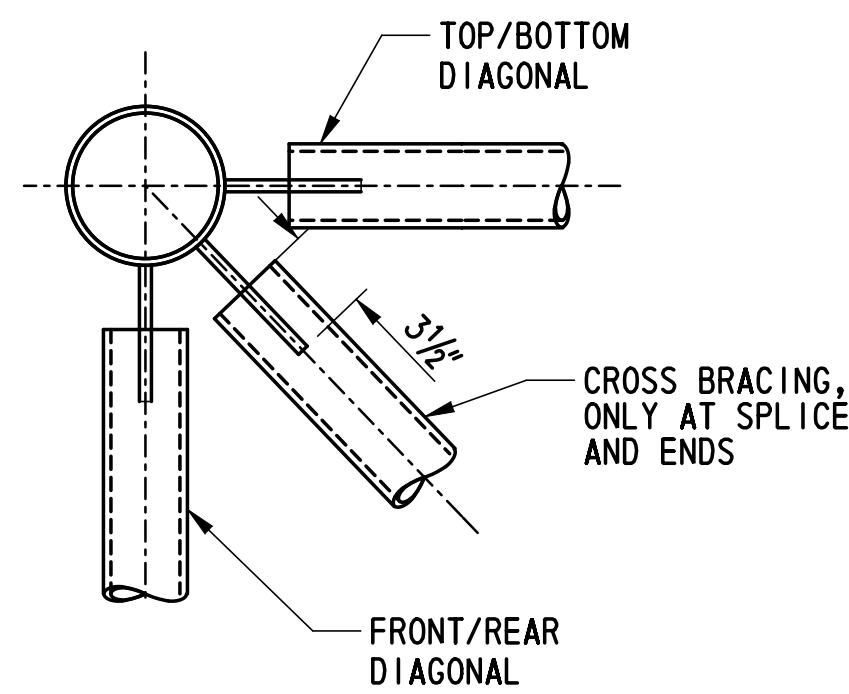
SECTION A-A
FLANGE PLATE
SCALE: 1 1/2" = 1'-0"



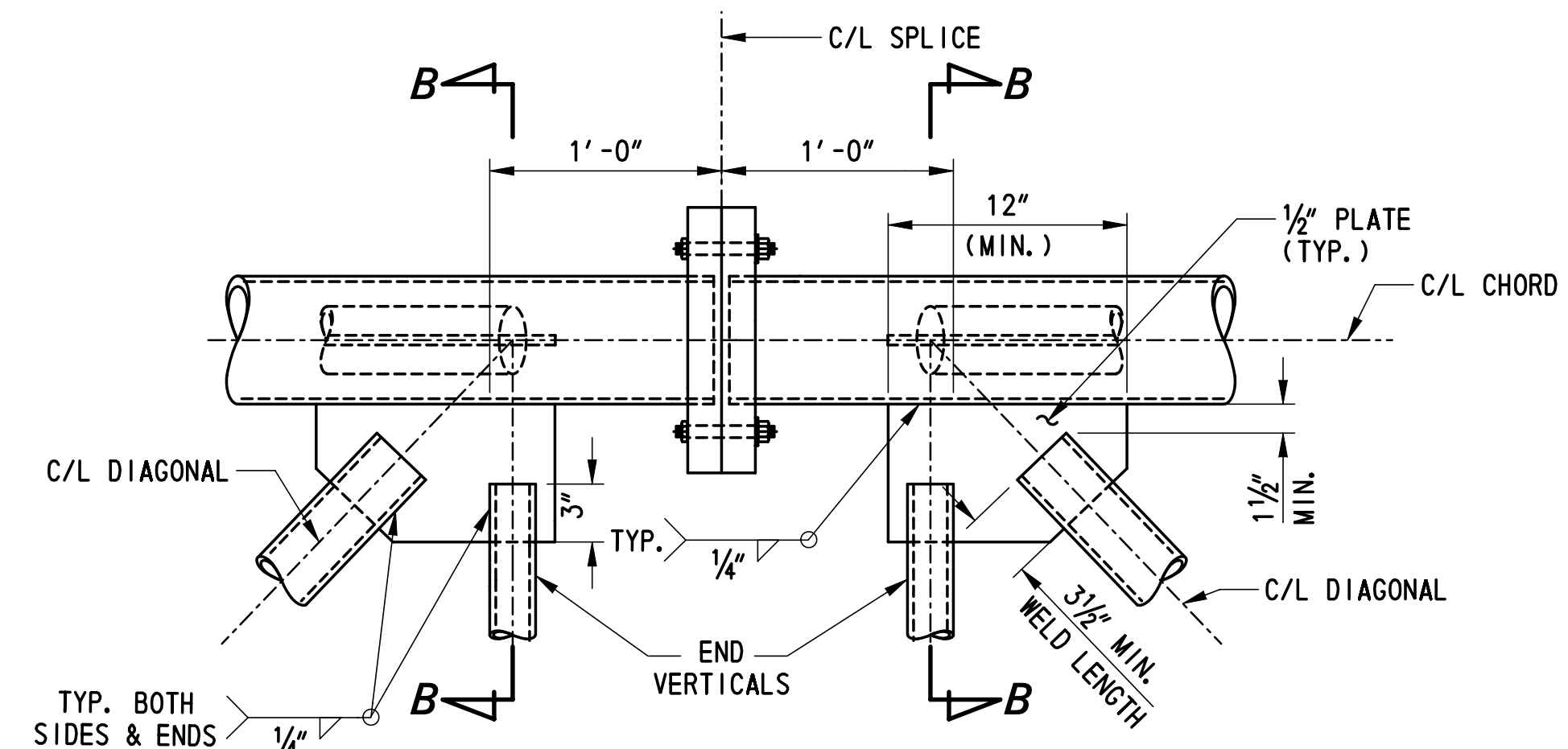
FLANGE SPLICE DETAIL
SCALE: 1 1/2" = 1'-0"



DETAIL 1
SCALE: 1 1/2" = 1'-0"

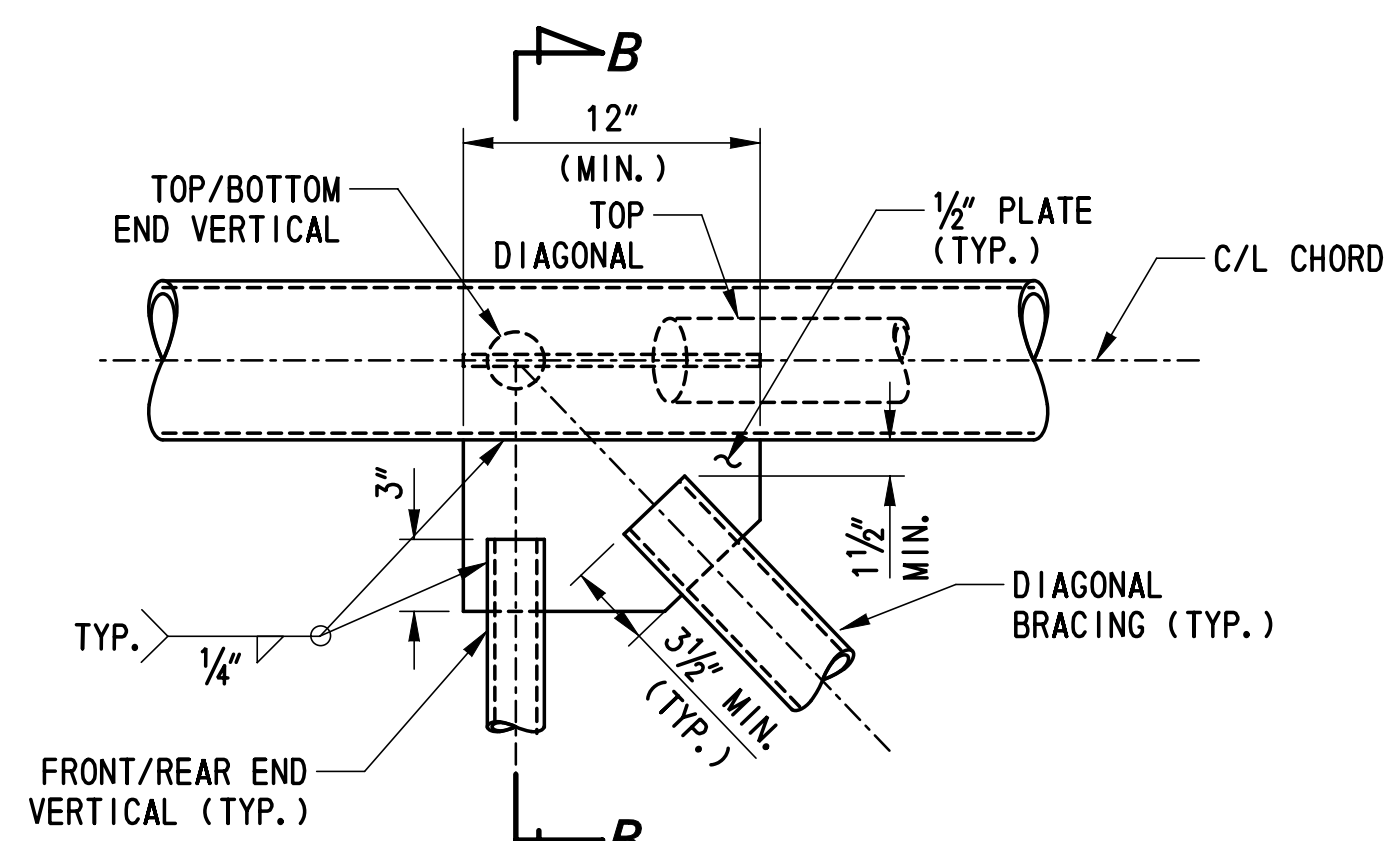


SECTION B-B
SCALE: 1 1/2" = 1'-0"



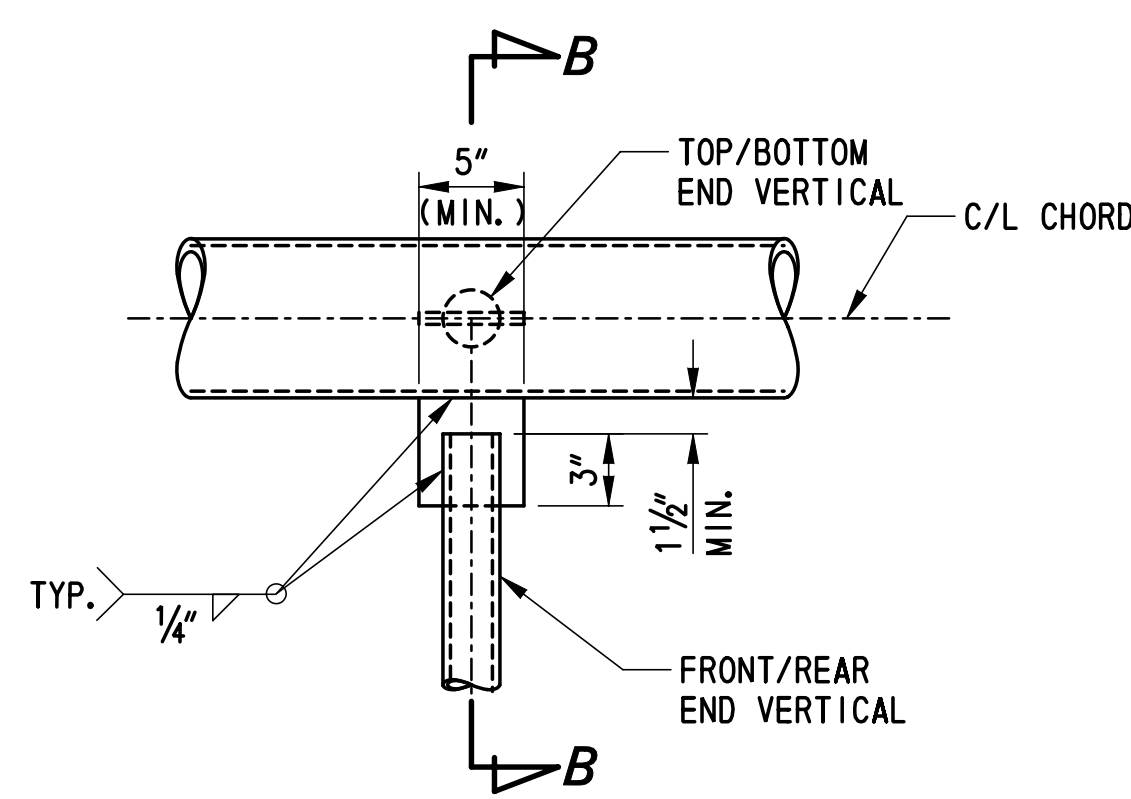
CROSS BRACING ONLY AT SPLICE & ENDS

DETAIL 2
SCALE: 1 1/2" = 1'-0"



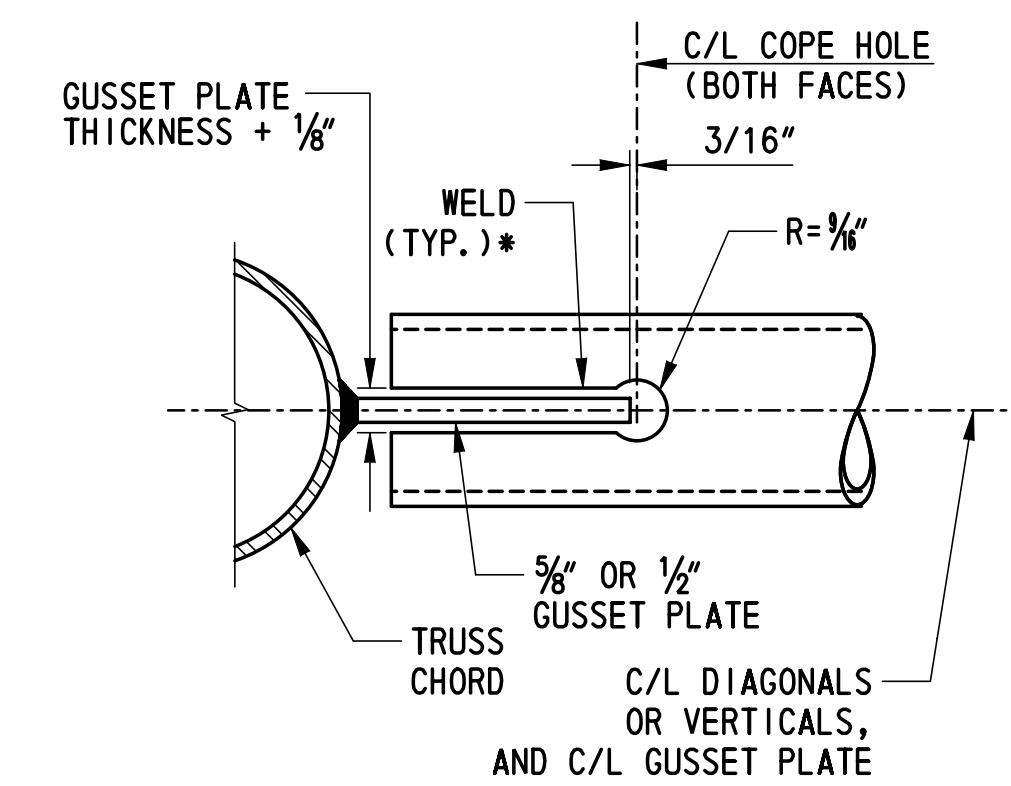
CROSS BRACING ONLY AT SPLICE & ENDS

DETAIL 3
SCALE: 1 1/2" = 1'-0"



CROSS BRACING ONLY AT SPLICE & ENDS

DETAIL 4
SCALE: 1 1/2" = 1'-0"



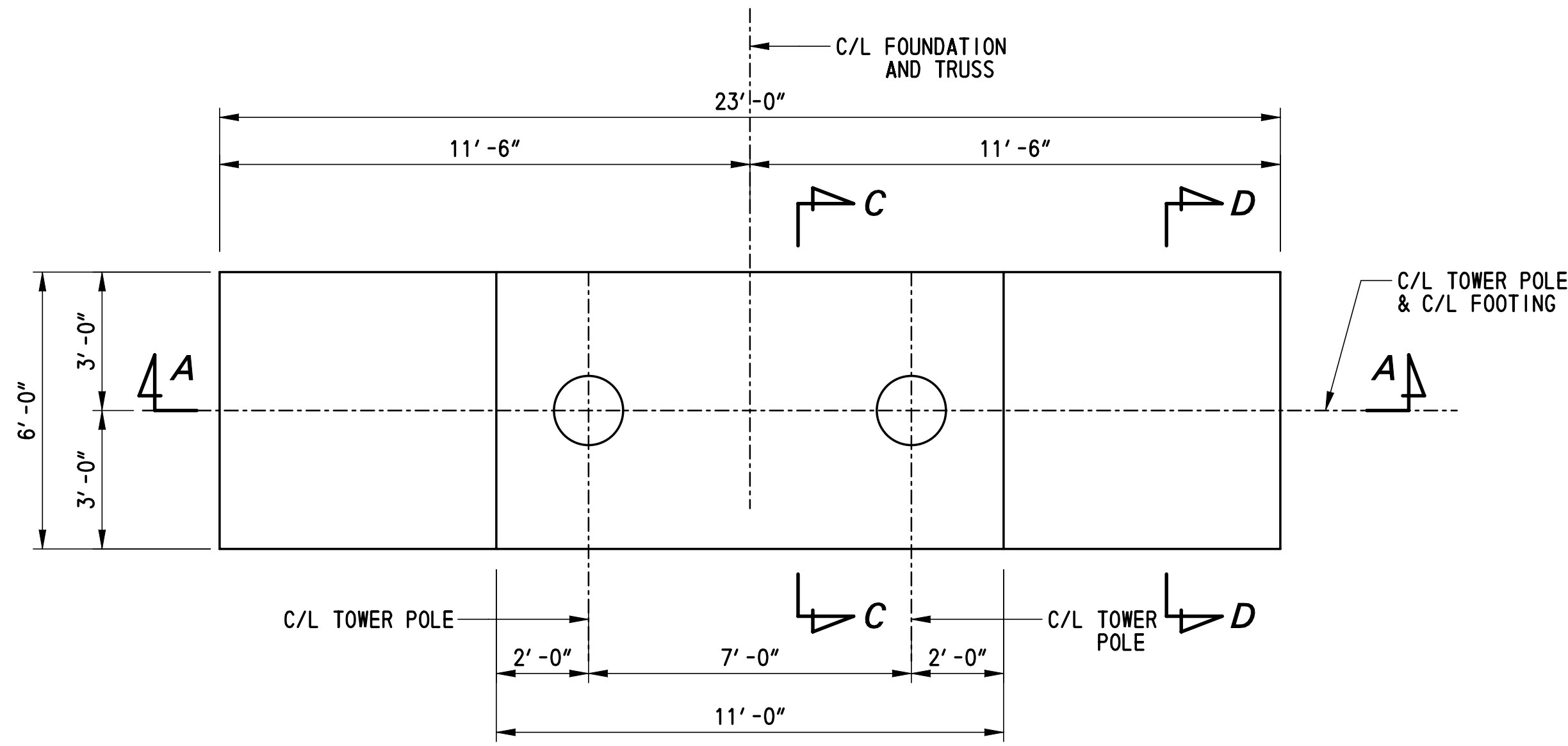
* PROVIDE A WELD "HOLDBACK" AT THE EDGE OF THE GUSSET PLATE IN THE BRACING MEMBER EQUAL TO THE MINIMUM WELD SIZE REQUIRED.

COPE HOLE DETAIL (TYP.)
N. T. S.

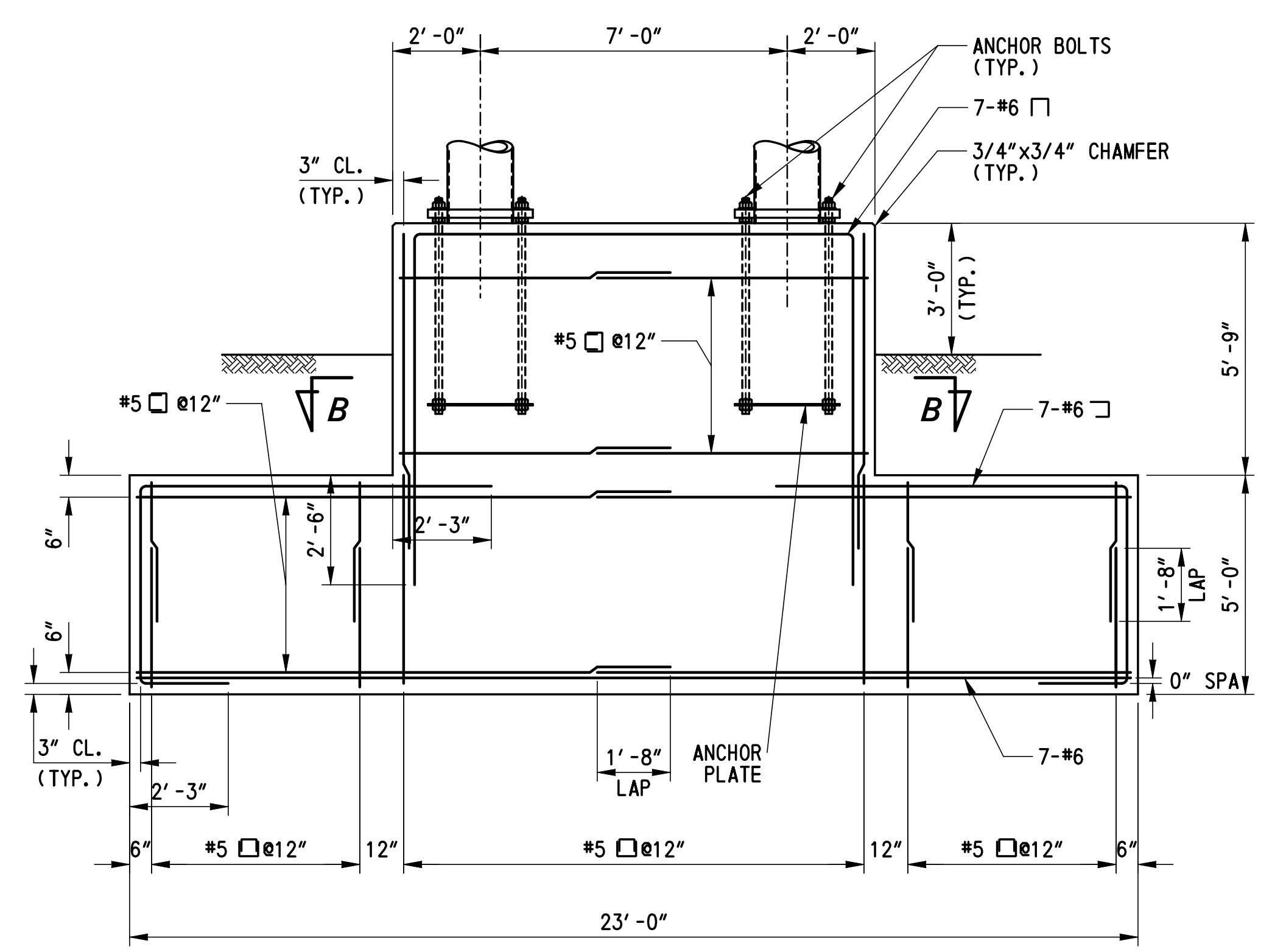
NOTES:

- FOR GENERAL NOTES, SEE SHEET SS-65 & SS-66.
- CHORD SPLICE BOLTS SHALL BE ASTM A325 HIGH STRENGTH STEEL BOLTS. HOLES IN SPLICE PLATE SHALL BE 1/16" LARGER THAN BOLT DIAMETER.
- ASTM A325 SPLICE BOLTS SHALL BE HEAVY HEXAGON TYPE AND SHALL BE FURNISHED WITH HEAVY HEXAGON NUTS AND WASHER.
- THE THREADED PORTION OF THE SPLICE BOLTS SHALL BE EXCLUDED FROM THE SHEAR PLANE OF THE SPLICE.
- TO PREVENT INTERSECTING FILLET WELDS ON OPPOSITE SIDES OF COMMON PLANE, PROVIDE A WELD "HOLDBACK" AT THE EDGE OF THE GUSSET PLATE IN THE BRACING MEMBERS EQUAL TO THE MINIMUM WELD SIZE REQUIRED. ENSURE MINIMUM TOTAL WELD LENGTH ARE ACHIEVED

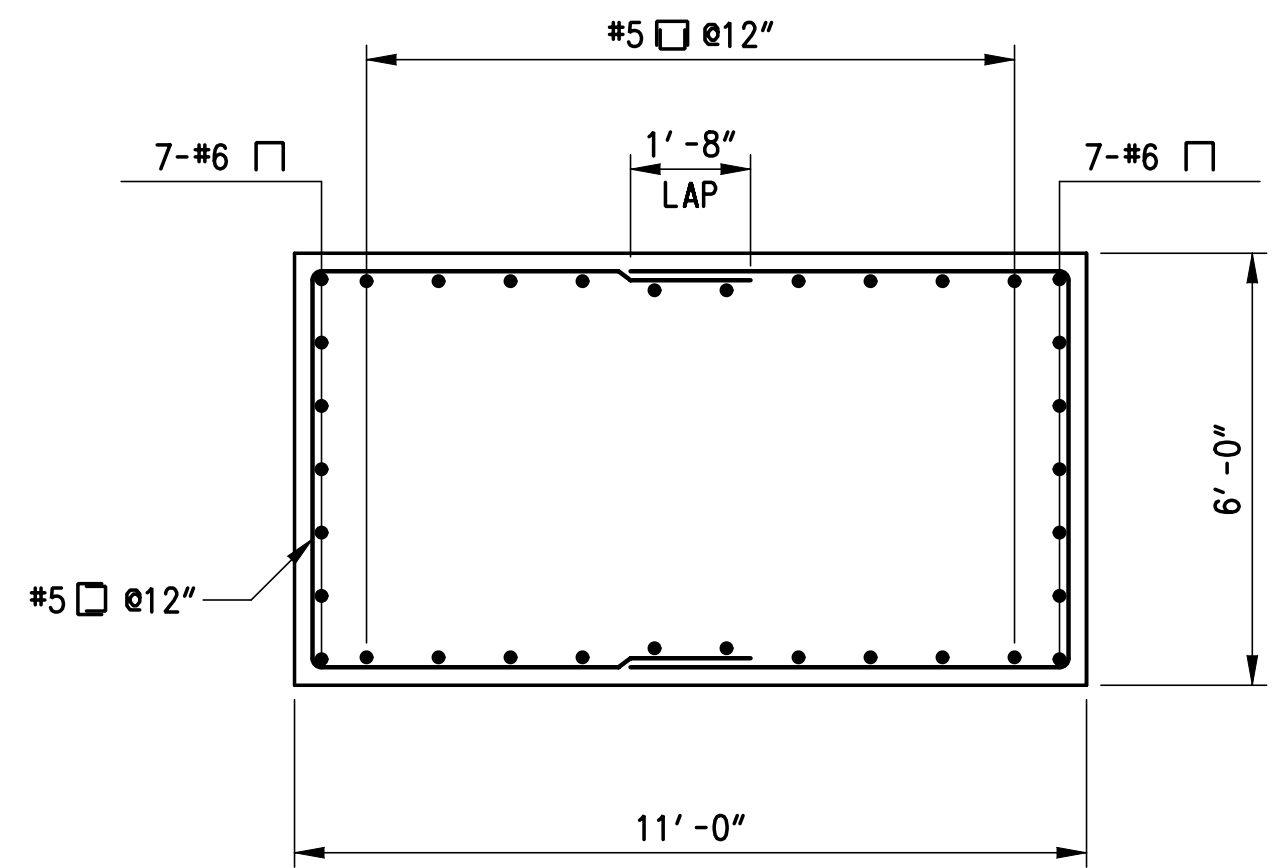
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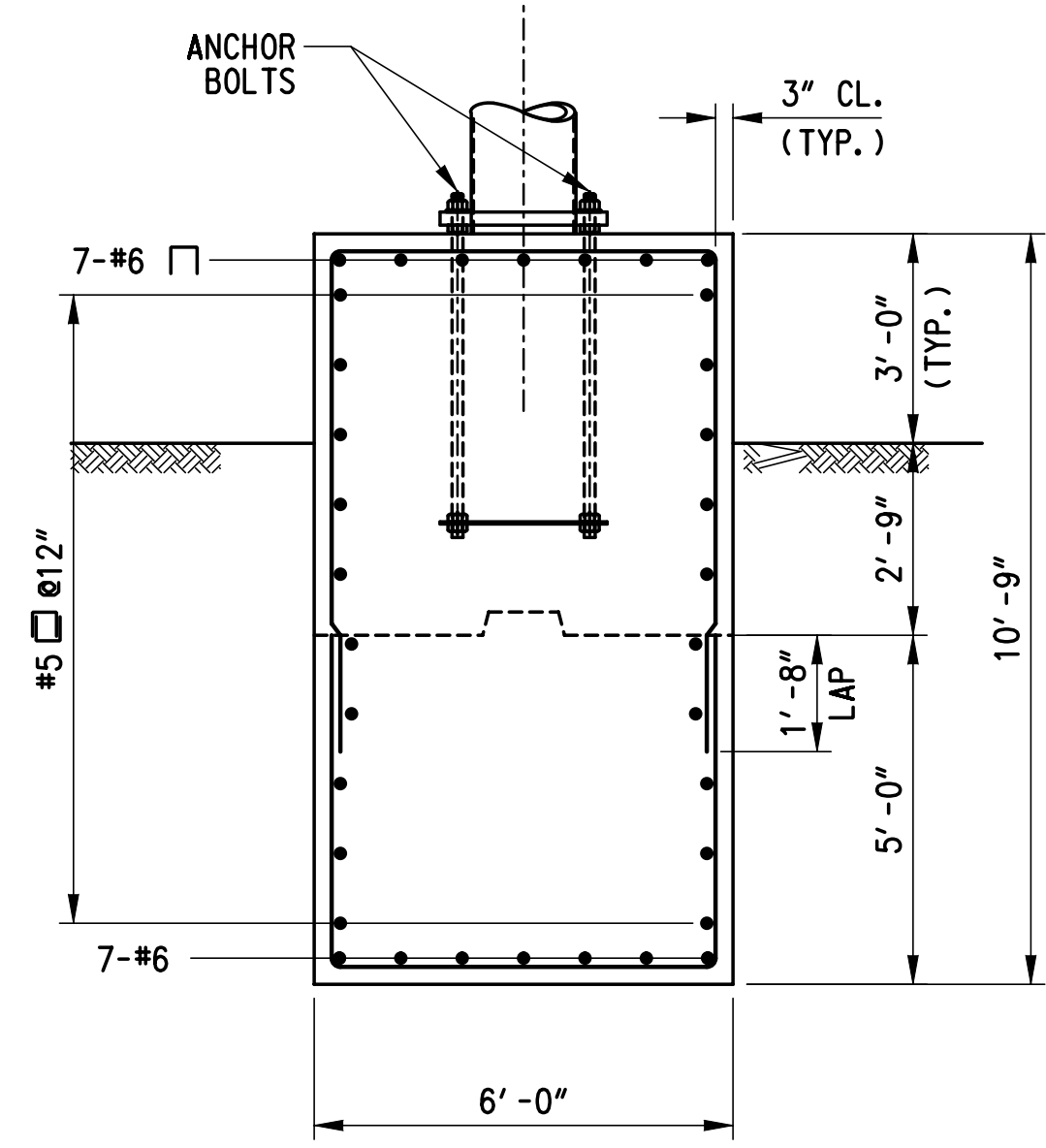
PLAN
SCALE: 3/8" = 1'-0"



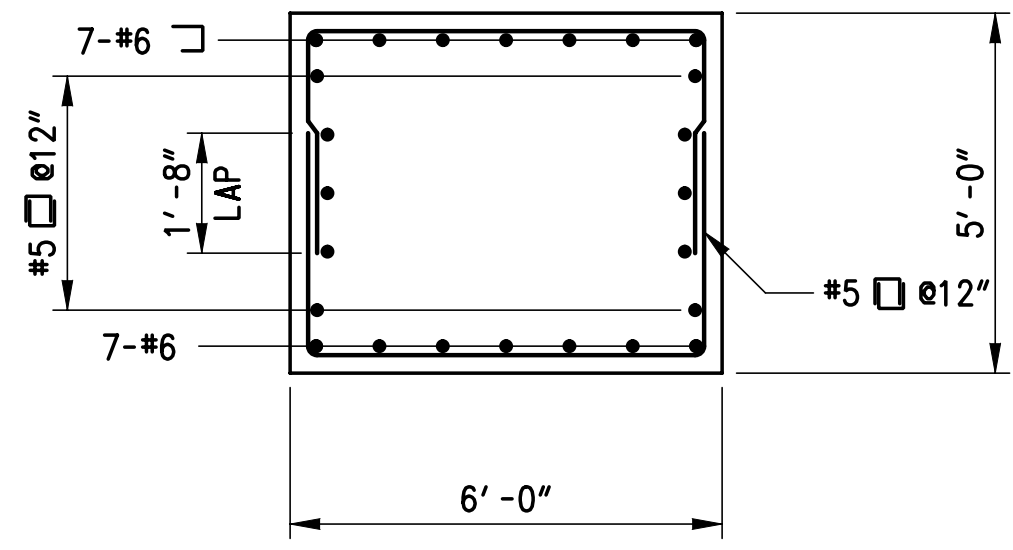
SECTION A-A
SCALE: 3/8" = 1'-0"



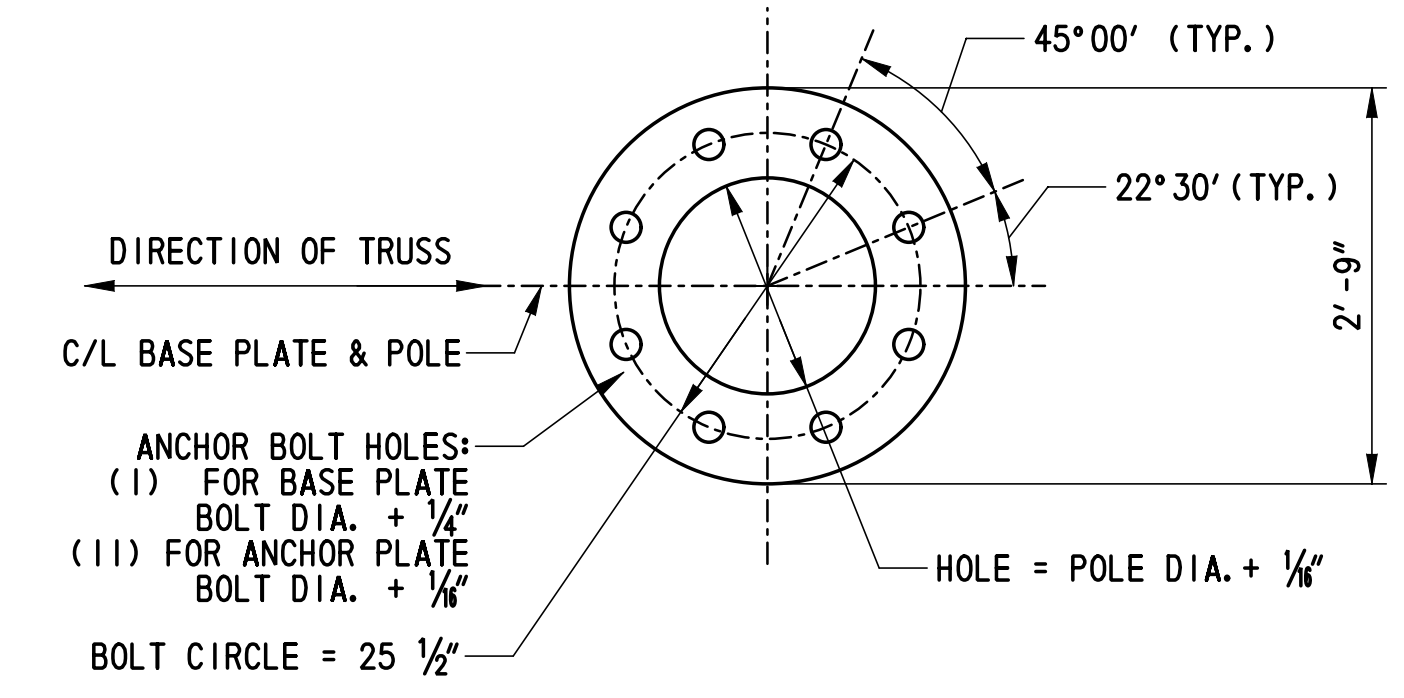
SECTION B-B
SCALE: 3/8" = 1'-0"



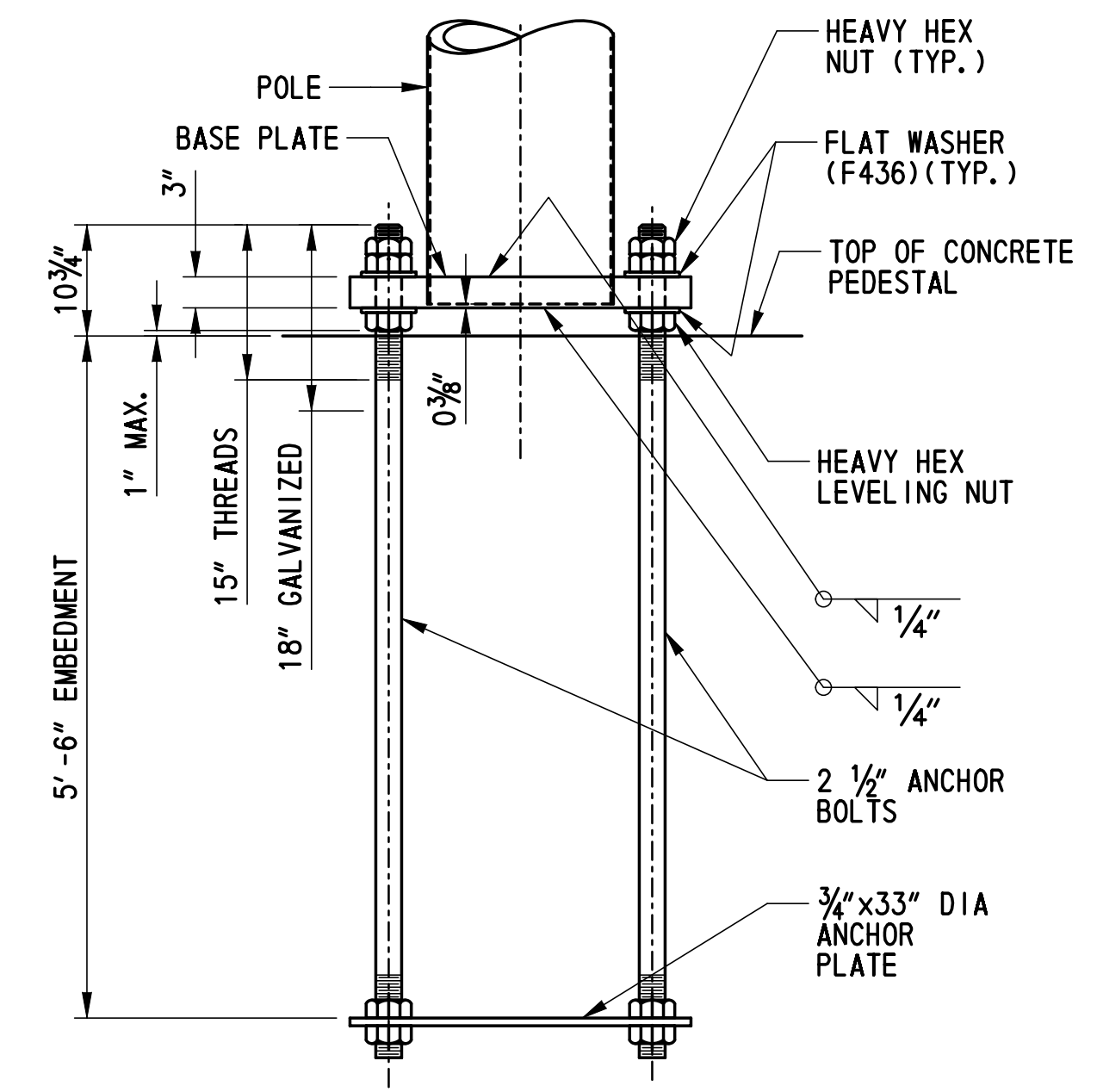
SECTION C-C
SCALE: 3/8" = 1'-0"



SECTION D-D
SCALE: 3/8" = 1'-0"



BASE PLATE PLAN VIEW



SECTION BASE PLATE & ANCHOR PLATE
SCALE: 3/4" = 1'-0"

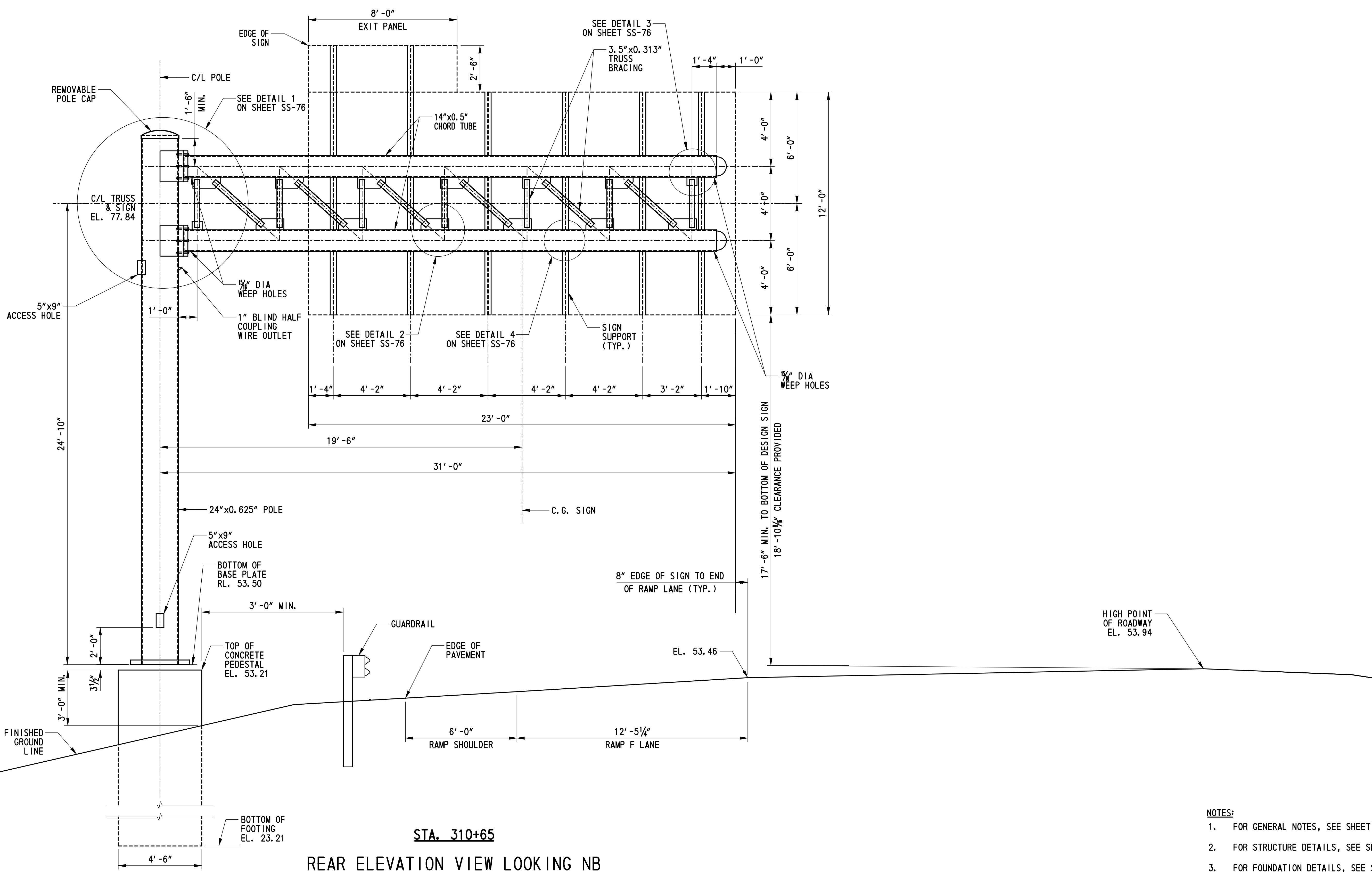
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ADDENDUMS / REVISIONS	

CONTRACT	BRIDGE NO.	SO1416
T200911303	DESIGNED BY: MJM	
COUNTY	CHECKED BY: RMG	
NEW CASTLE		

SS-71
SHEET NO.
1105
TOTAL SHTS.
1256

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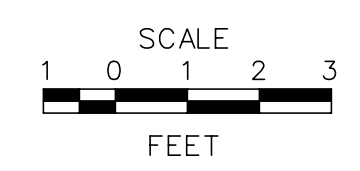


STA. 310+65
REAR ELEVATION VIEW LOOKING NB
 SCALE: 3/8" = 1'-0"

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET SS-65 & SS-66.
 - FOR STRUCTURE DETAILS, SEE SHEET SS-76.
 - FOR FOUNDATION DETAILS, SEE SHEET SS-77.



ADDENDUMS / REVISIONS	

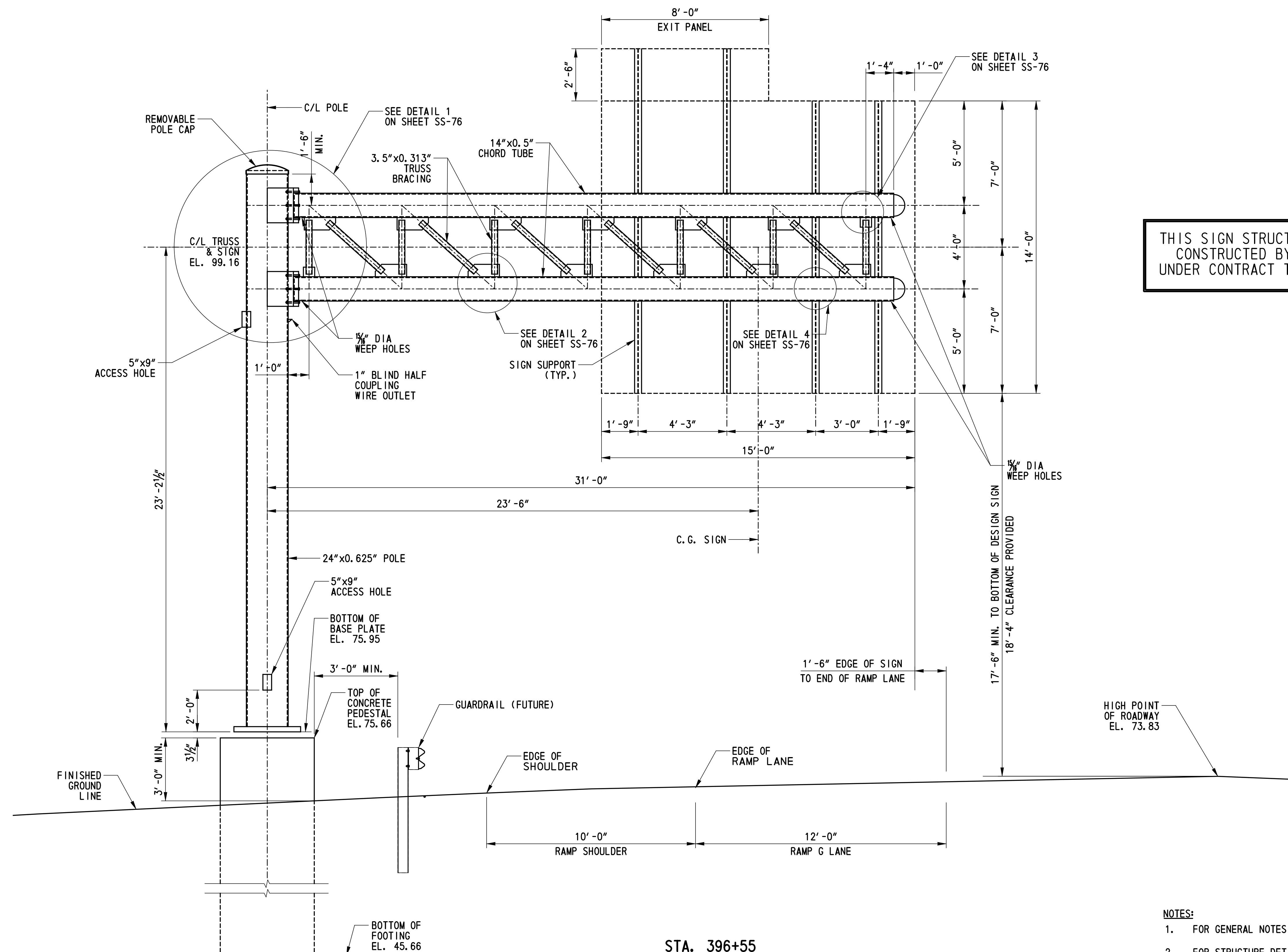


**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	SC1415
T20091303	DESIGNED BY:	MJM
COUNTY	CHECKED BY:	RMG
NEW CASTLE		

**STA. 310 + 65
 CANTILEVER SIGN
 STRUCTURE ELEVATION**

SS-72
SHEET NO.
1106
TOTAL SHTS.
1256



THIS SIGN STRUCTURE TO BE
CONSTRUCTED BY OTHERS
UNDER CONTRACT T200911307

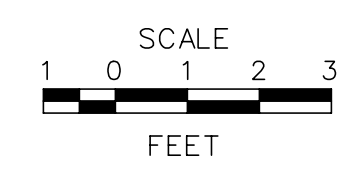
STA. 396+55
REAR ELEVATION VIEW LOOKING SB
SCALE: 3/8" = 1'-0"

- NOTES:
1. FOR GENERAL NOTES, SEE SHEET SS-65 & SS-66.
 2. FOR STRUCTURE DETAILS, SEE SHEET SS-76.
 3. FOR FOUNDATION DETAILS, SEE SHEET SS-77.

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ADDENDUMS / REVISIONS	



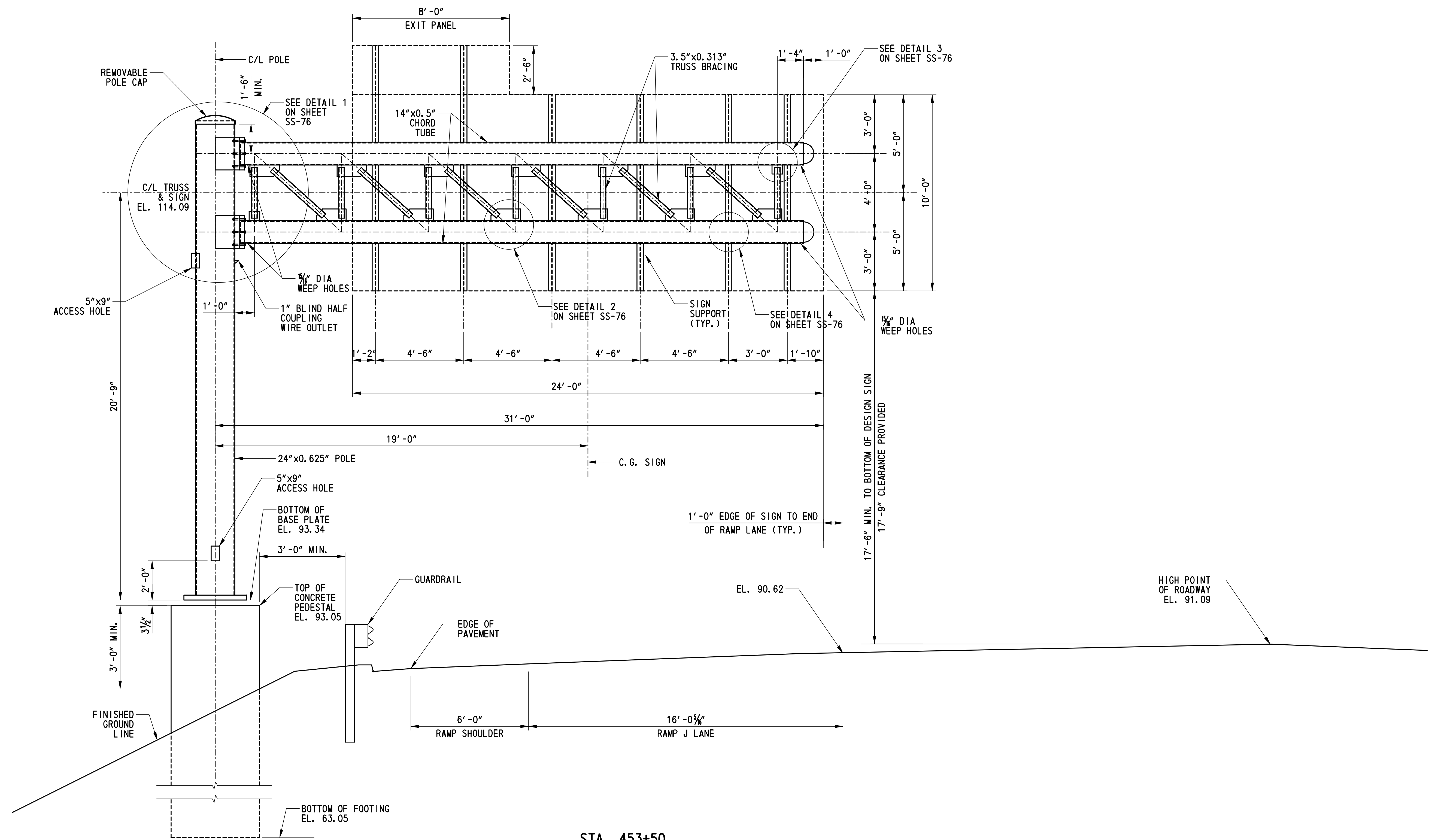
US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	SC1417
T200911303	DESIGNED BY:	MJM
COUNTY	CHECKED BY:	RMG
NEW CASTLE		

STA. 396 + 55
CANTILEVER SIGN
STRUCTURE ELEVATION

SS-73
SHEET NO.
1107
TOTAL SHTS.
1256

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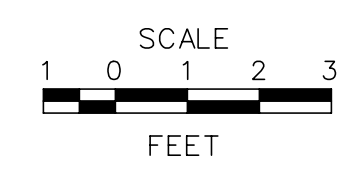


STA. 453+50
REAR ELEVATION VIEW LOOKING SB
 SCALE: 3/8" = 1'-0"

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET SS-65 & SS-66.
 - FOR STRUCTURE DETAILS, SEE SHEET SS-76.
 - FOR FOUNDATION DETAILS, SEE SHEET SS-77.



ADDENDUMS / REVISIONS	



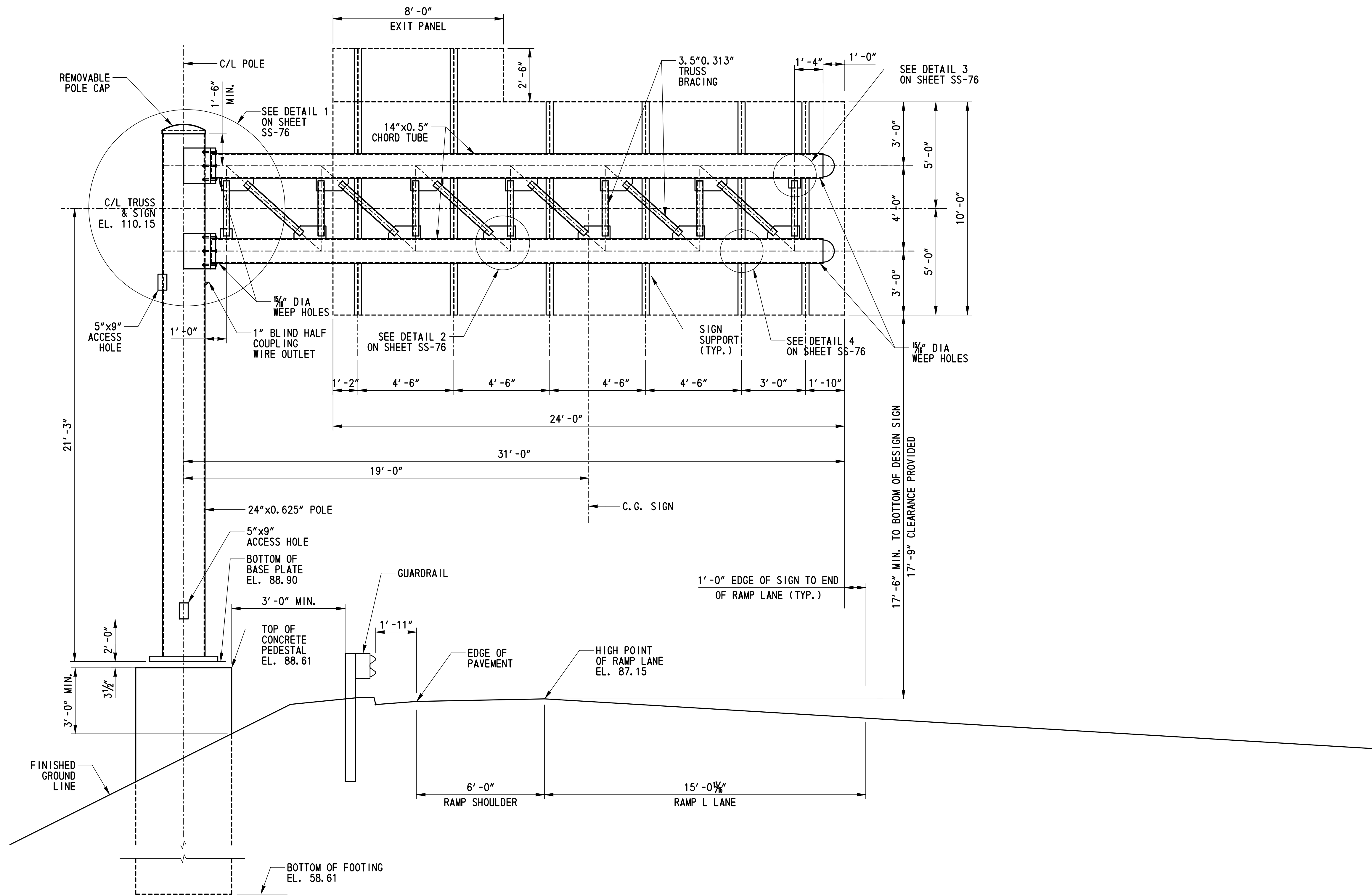
**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	SC1418
T20091303	DESIGNED BY:	MJM
COUNTY	CHECKED BY:	RMG
NEW CASTLE		

**STA. 453 + 50
 CANTILEVER SIGN
 STRUCTURES ELEVATION**

SS-74
SHEET NO.
1108
TOTAL SHTS.
1256

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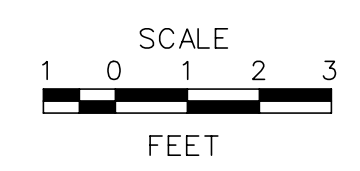


STA. 478+00
REAR ELEVATION VIEW LOOKING NB
 SCALE: 3/8" = 1'-0"

- NOTES:**
1. FOR GENERAL NOTES, SEE SHEET SS-65 & SS-66.
 2. FOR STRUCTURE DETAILS, SEE SHEET SS-76.
 3. FOR FOUNDATION DETAILS, SEE SHEET SS-77.



ADDENDUMS / REVISIONS	

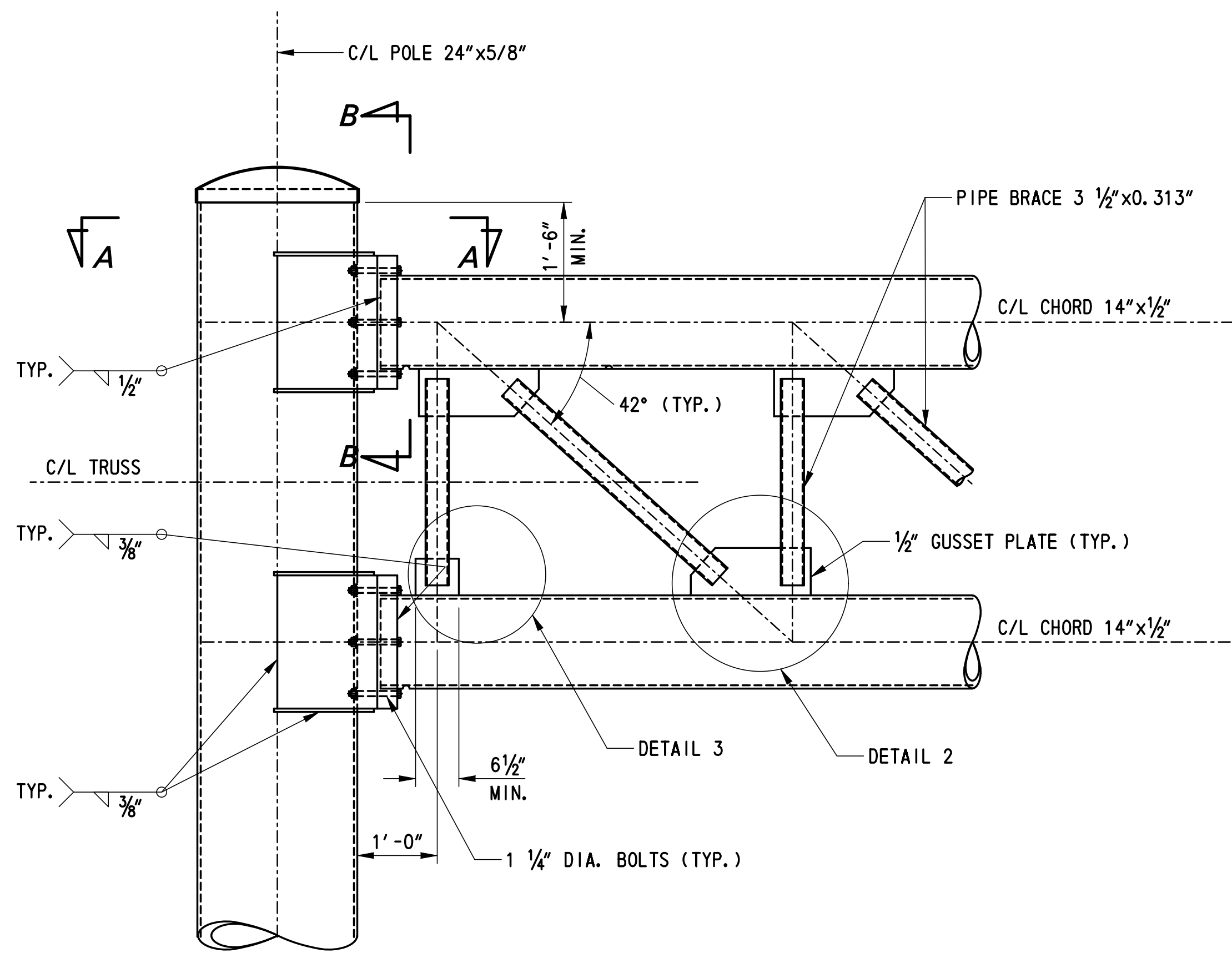


**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

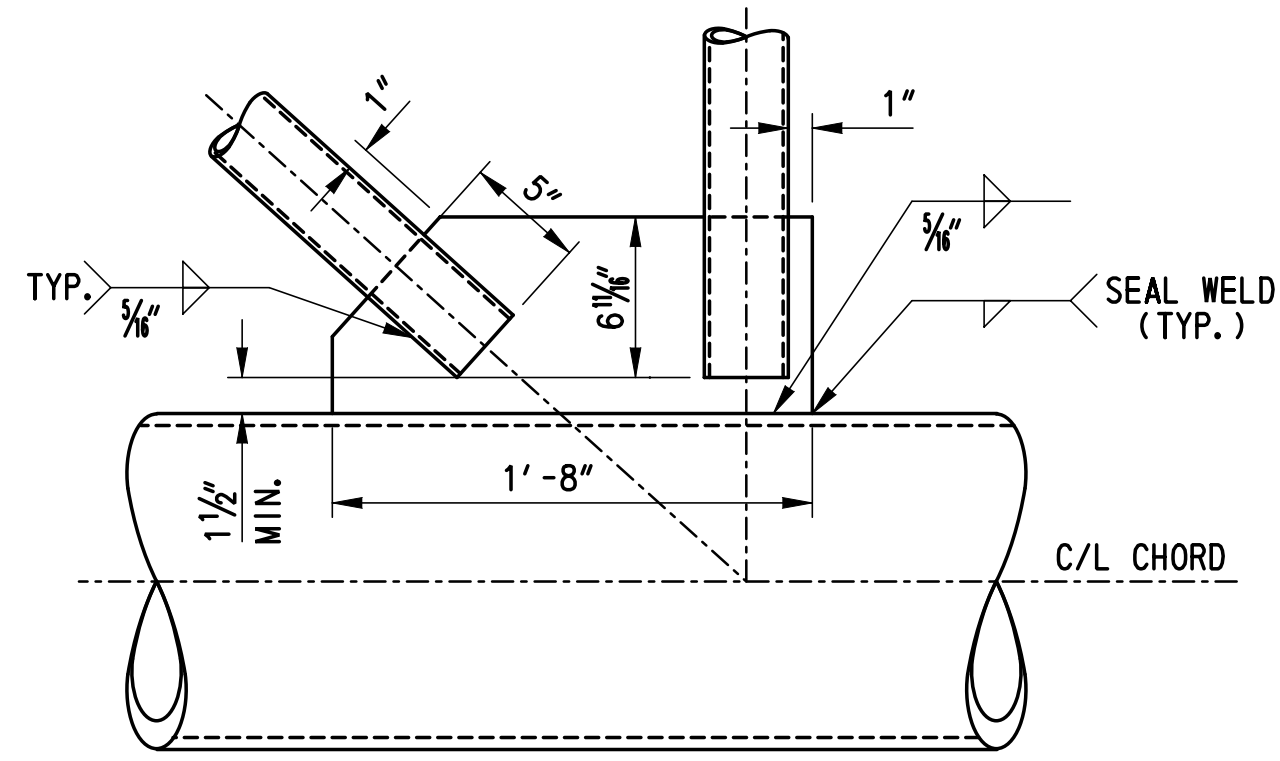
CONTRACT	BRIDGE NO.	SC1419
T20091303	DESIGNED BY:	MJM
COUNTY	CHECKED BY:	RMG
NEW CASTLE		

**STA. 478 + 00
 CANTILEVER SIGN
 STRUCTURES ELEVATION**

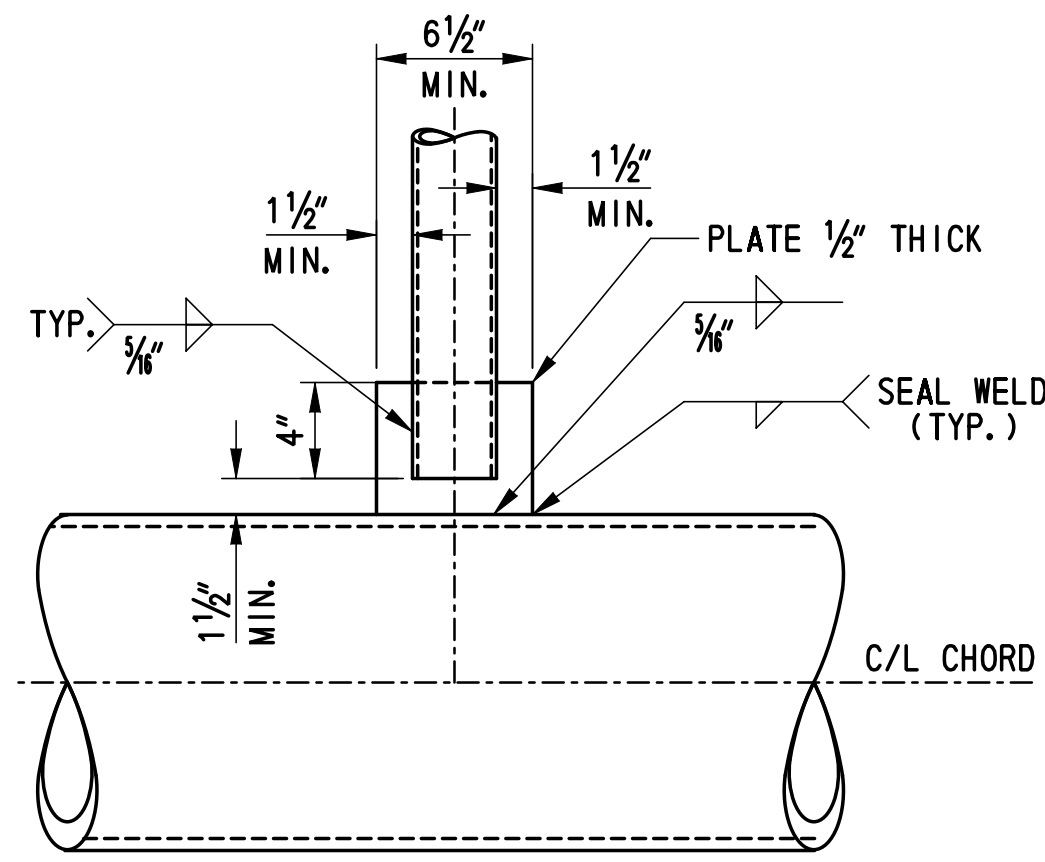
SS-75
SHEET NO.
1109
TOTAL SHTS.
1256



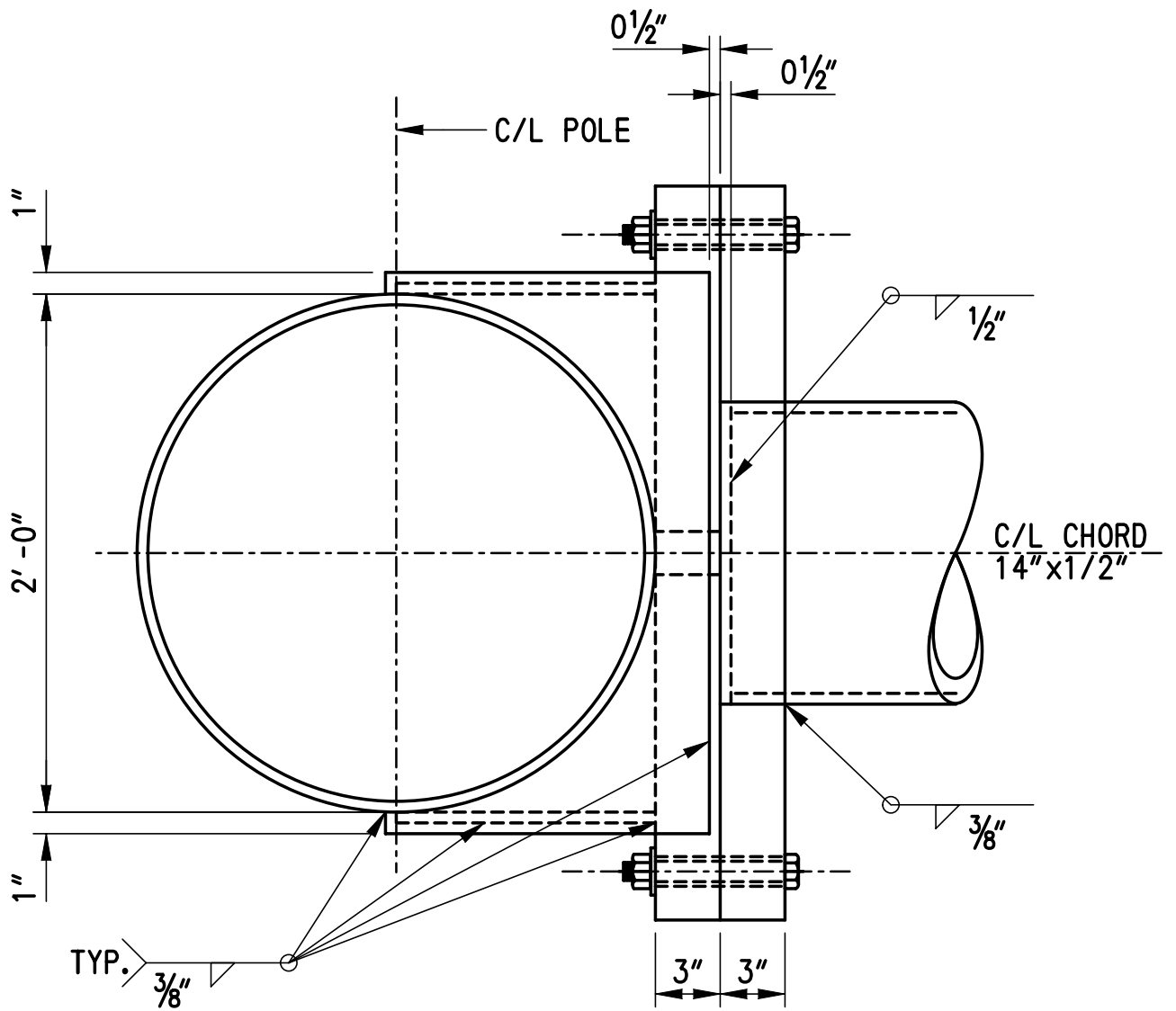
ELEVATION
SCALE: 3/4" = 1'-0"



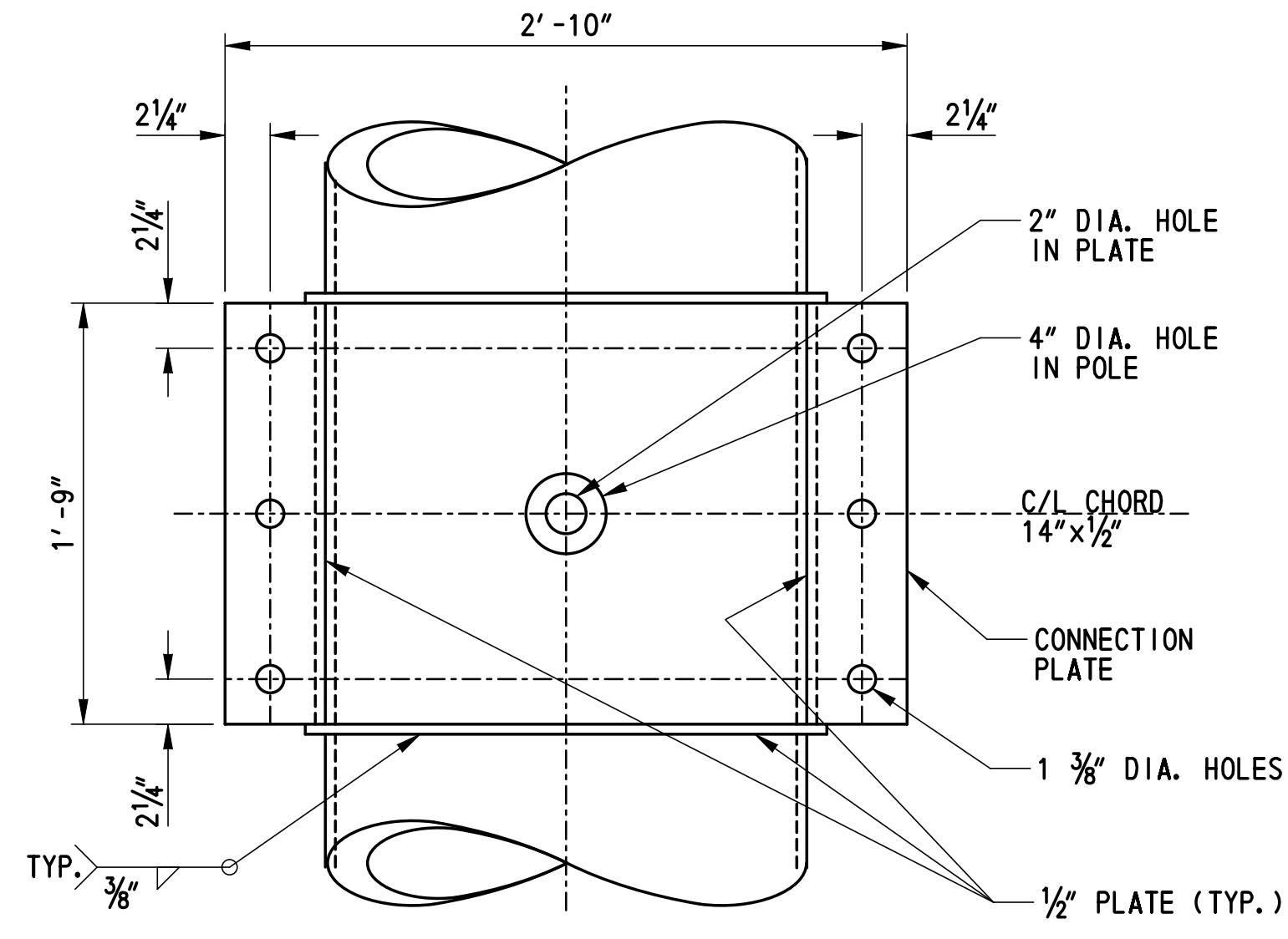
DETAIL 2
SCALE: 1 1/2" = 1'-0"



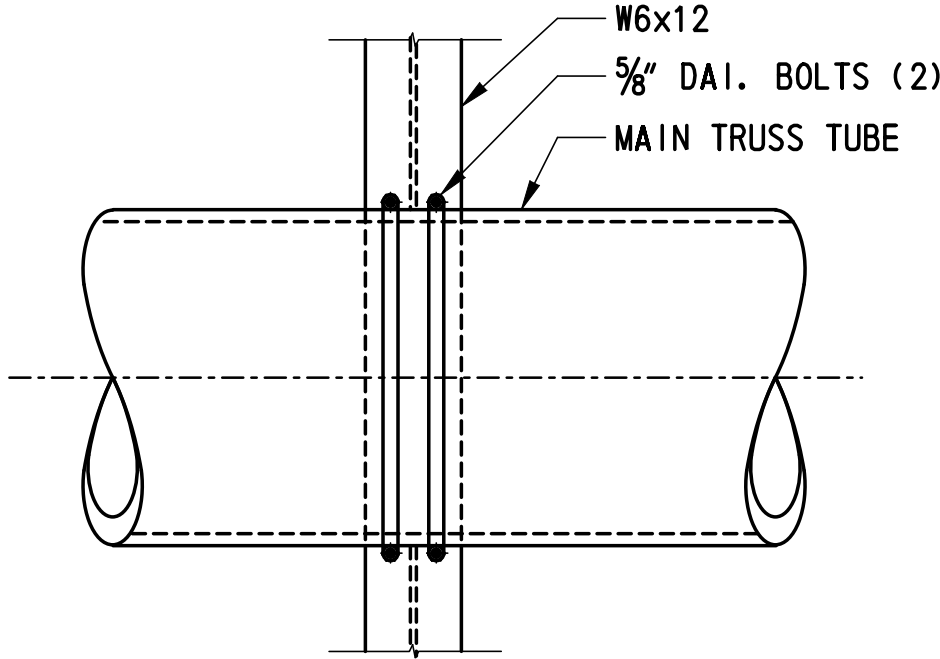
DETAIL 3
SCALE: 1 1/2" = 1'-0"



SECTION A-A
SCALE: 1 1/2" = 1'-0"



SECTION B-B
SCALE: 1 1/2" = 1'-0"



DETAIL 4
SCALE: 1 1/2" = 1'-0"

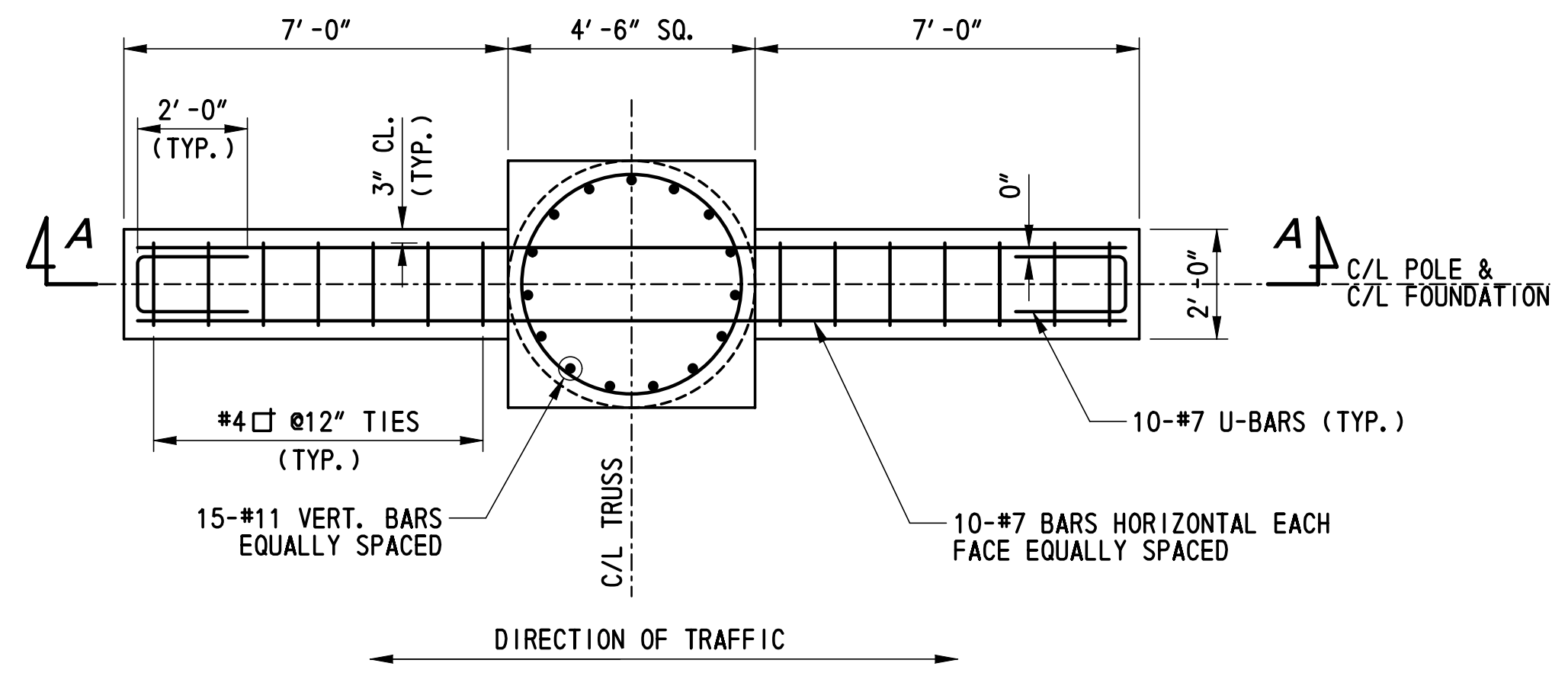
- NOTES:**
- FOR GENERAL NOTES, SEE SHEET SS-65 & SS-66.
 - TO PREVENT INTERSECTING FILLET WELDS ON OPPOSITE SIDES OF COMMON PLANE, PROVIDE A WELD "HOLDBACK" AT THE EDGE OF THE GUSSET PLATE IN THE BRACING MEMBERS EQUAL TO THE MINIMUM WELD SIZE REQUIRED. ENSURE MINIMUM TOTAL WELD LENGTH ARE ACHIEVED.

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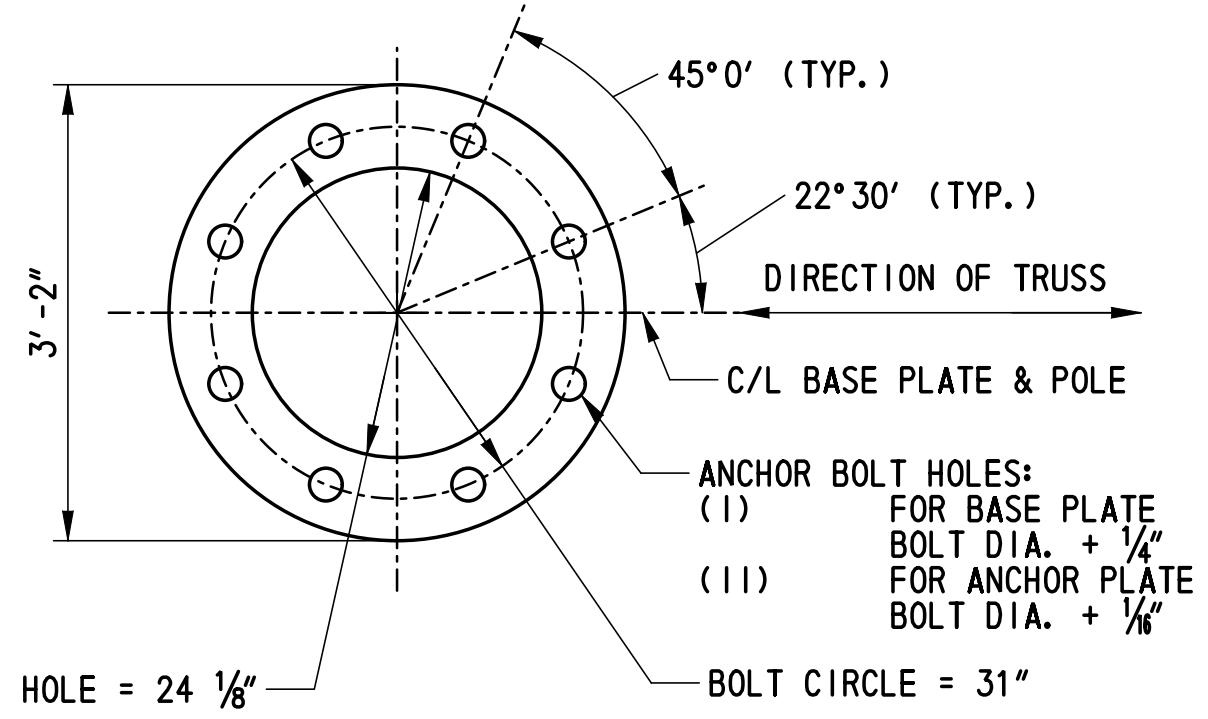
ADDENDUMS / REVISIONS	

CONTRACT	BRIDGE NO.	*
T20091303	DESIGNED BY:	MJM
COUNTY	CHECKED BY:	RMG
NEW CASTLE		

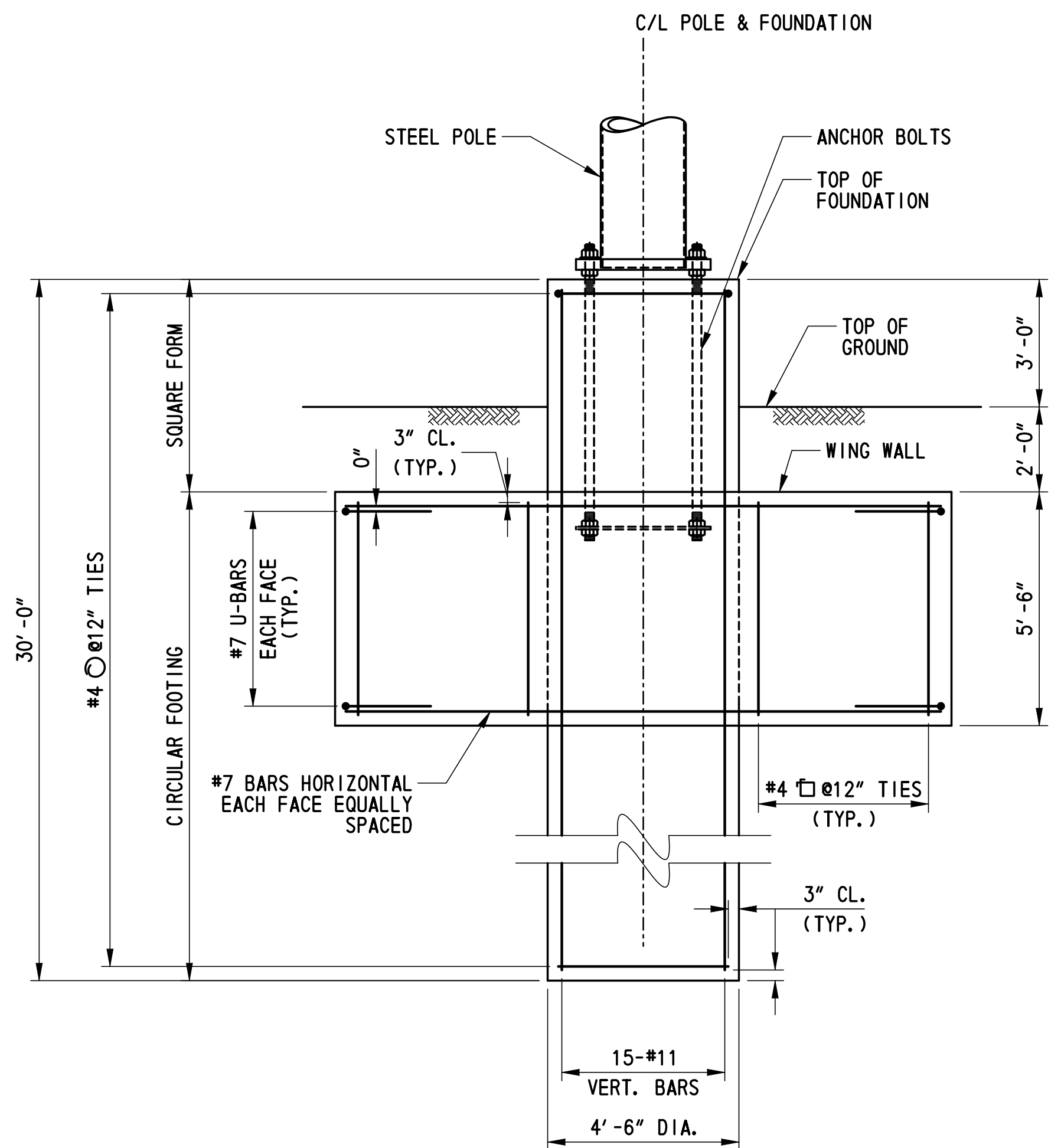
* SC1415, SC1417, SC1418, SC1419



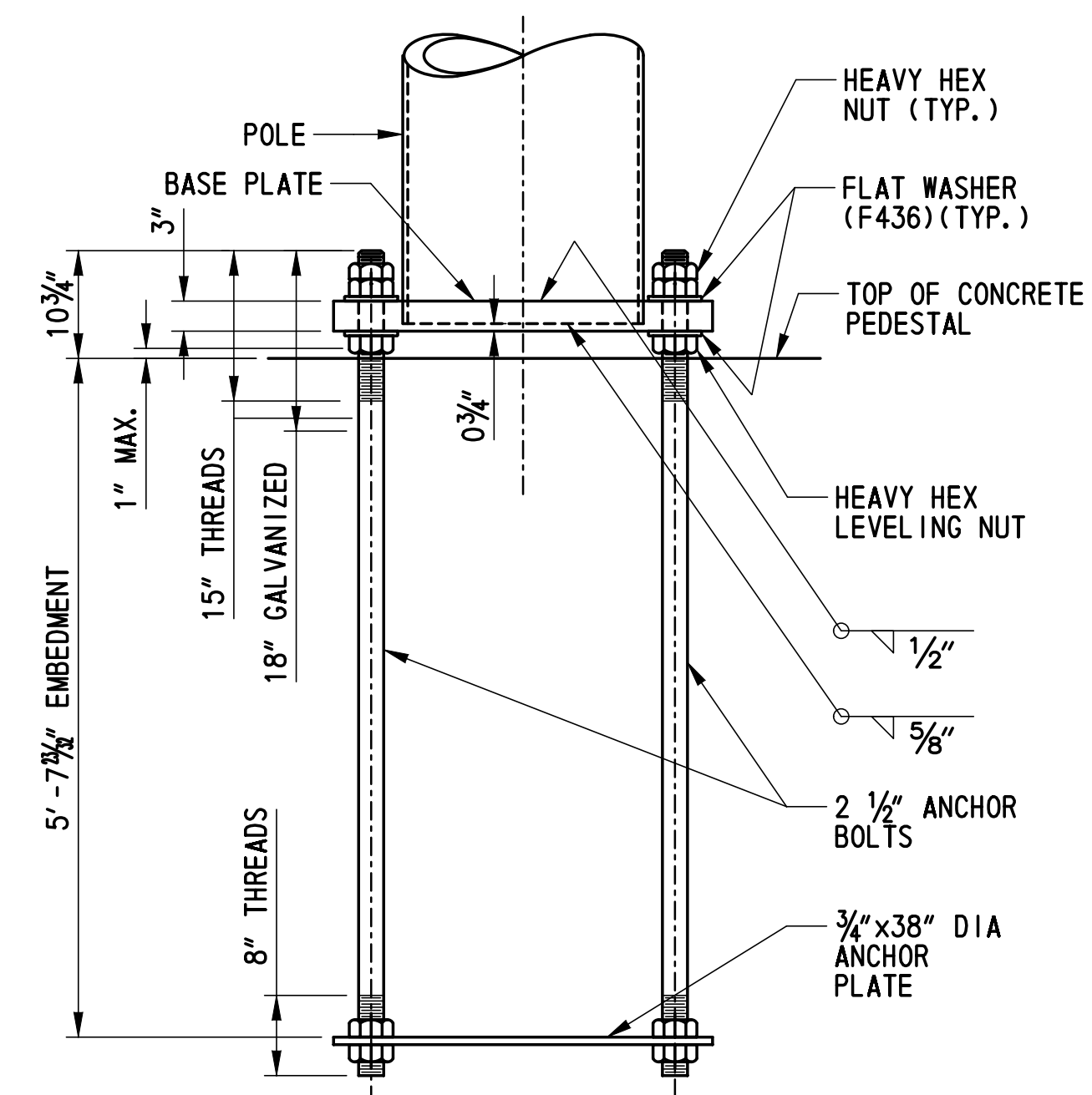
PLAN
SCALE: 3/8" = 1'-0"



BASE PLATE PLAN VIEW



SECTION A-A
SCALE: 3/8" = 1'-0"



SECTION

BASE PLATE & ANCHOR PLATE DETAIL
SCALE: 3/4" = 1'-0"

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET SS-65 & SS-66.
 - ALL ANCHOR BOLTS SHALL BE PLUMB AFTER FOUNDATION INSTALLATION. STEEL TEMPLATE PLATE SHALL BE USED TO SET ANCHOR BOLTS.
 - BASE PLATE SHALL BE IN FULL CONTACT WITH ALL FLAT WASHERS.
 - ALL ANCHOR BOLT NUTS SHALL BE TIGHTENED USING TURN OF NUT METHOD. (30° MIN. TO 45° MAX. TURN AFTER SNUG TIGHT).
 - GROUT SHALL NOT BE PLACED BETWEEN THE BASE PLATE AND CONCRETE BASE.
 - FOR FOUNDATION DETAILS REFER TO CANTILEVER STRUCTURE FOUNDATION DATA.

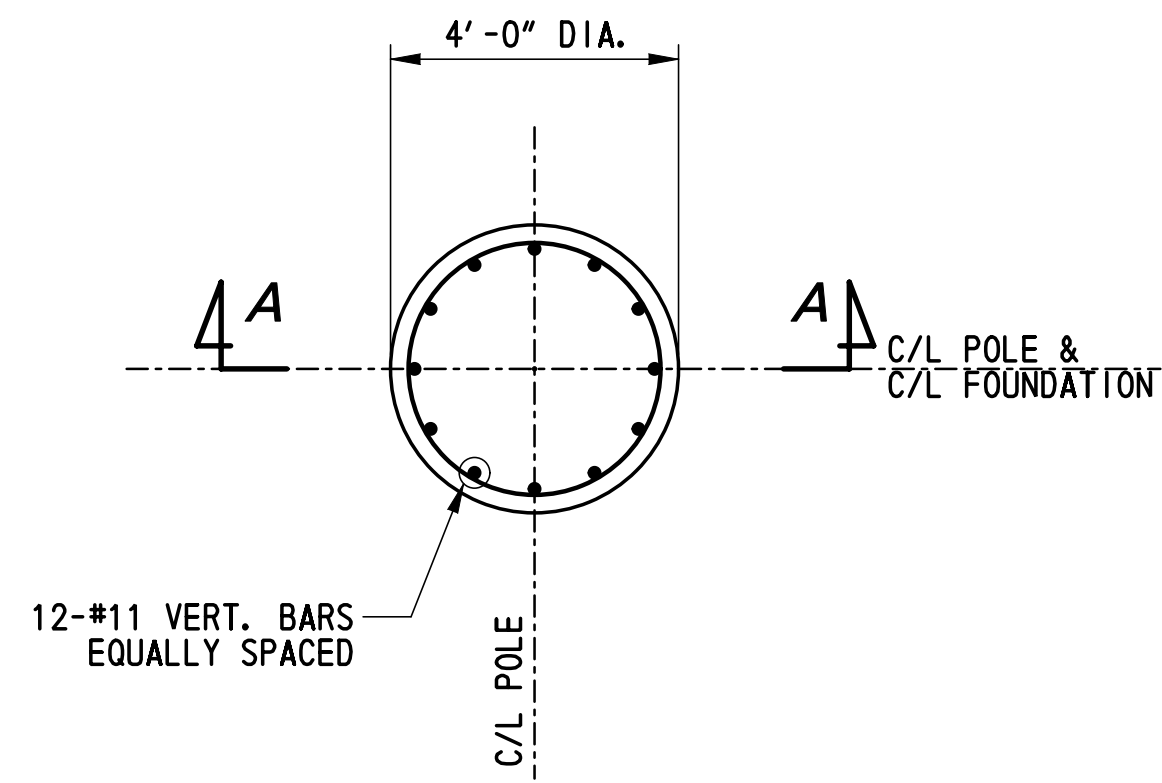
* SC1415, SC1417, SC1418, SC1419

ADDENDUMS / REVISIONS	

CONTRACT	BRIDGE NO.	*
T20091303	DESIGNED BY: MJM	
COUNTY	CHECKED BY: RMG	
NEW CASTLE		

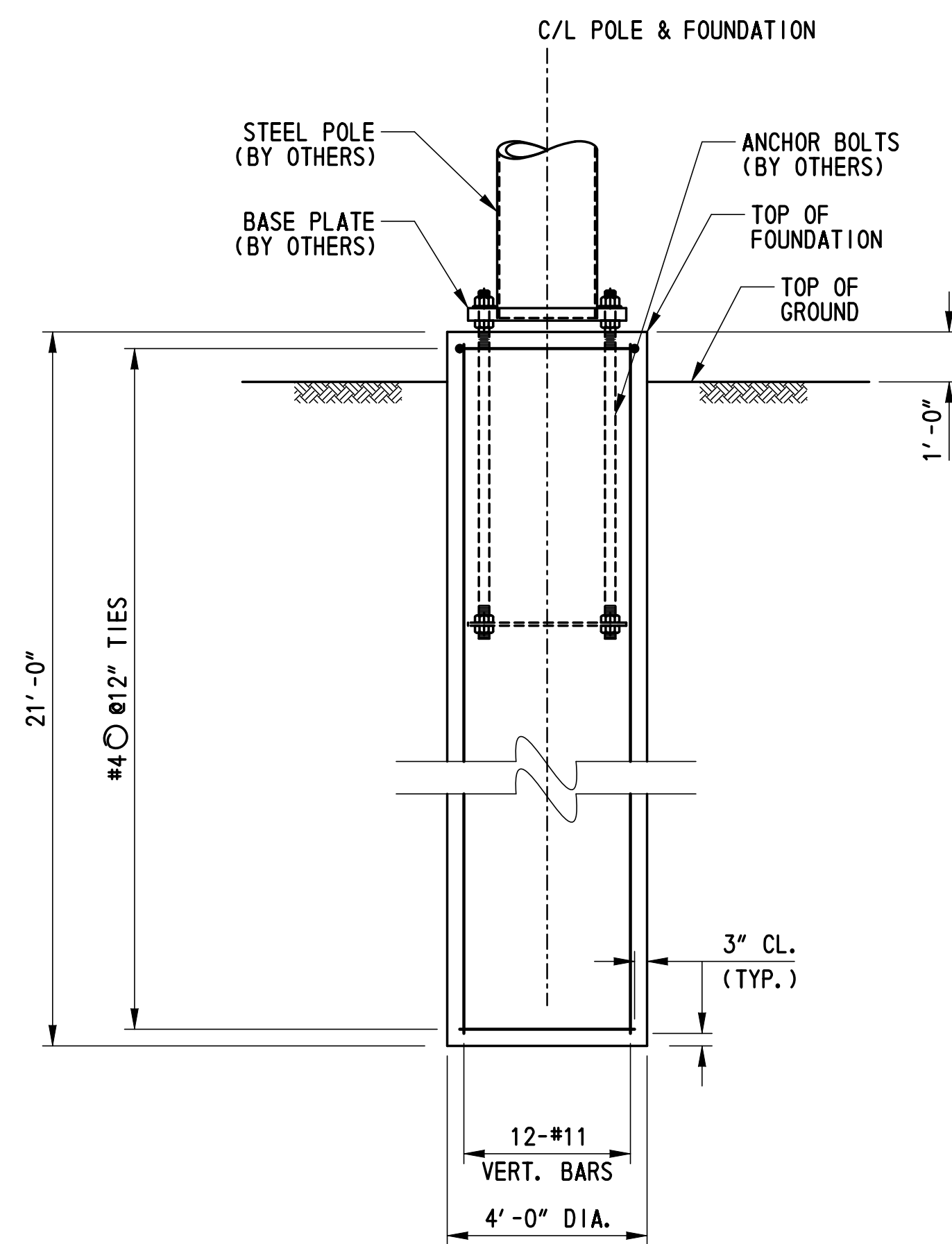
SS-77
SHEET NO.
1111
TOTAL SHTS.
1256

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PLAN

SCALE: 3/8" = 1'-0"



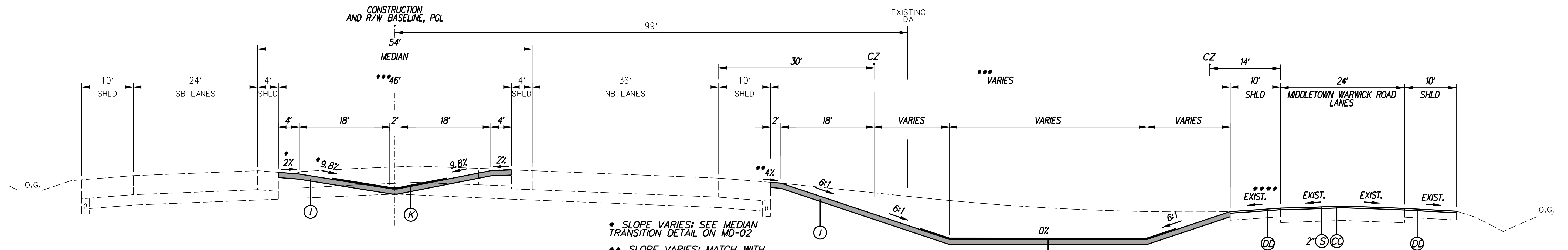
SECTION A-A

SCALE: 3/8" = 1'-0"

NOTES:

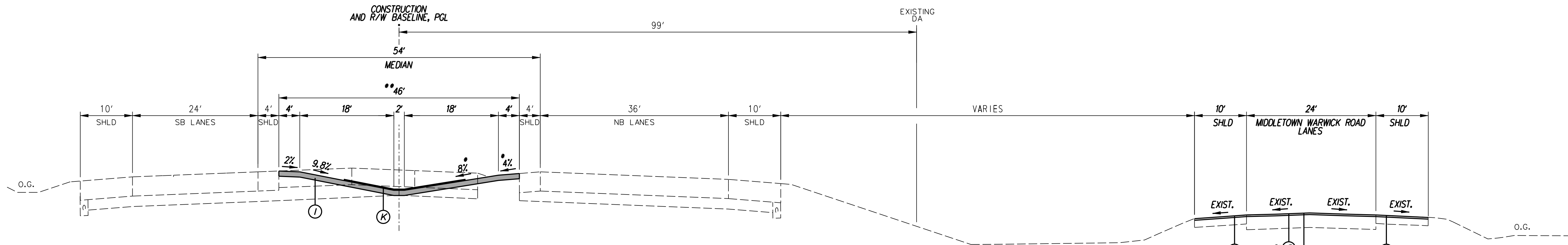
1. FOR GENERAL NOTES, SEE SHEET SS-65 & SS-66.

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TYPICAL NORMAL SECTION US 301
STA 173+43.12 TO STA 177+89.16

* **SLOPE VARIES;** SEE MEDIAN TRANSITION DETAIL ON MD-02
 ** **SLOPE VARIES;** MATCH WITH EXISTING SHOULDER SLOPE
 *** **WIDTH OF CONSTRUCTION VARIES.** REFER TO CROSS SECTIONS FOR GRADING LIMITS
 **** **4% FROM STA 174+11.27 TO STA 175+89.55**



TYPICAL NORMAL SECTION US 301
STA 166+76.60 TO STA 173+43.12

* **SLOPE VARIES;** SEE MEDIAN TRANSITION DETAIL ON MD-02
 ** **WIDTH OF CONSTRUCTION VARIES.** REFER TO CROSS SECTIONS FOR GRADING LIMITS.
 CC **BEGIN MILLING AND OVERLAY AT STA 168+69.65**

NOTES:

1. THE ALGEBRAIC DIFFERENCE BETWEEN THE TRAVEL LANE SLOPE AND SHOULDER SLOPE SHALL NOT EXCEED 8%.
2. SHOULDER CROSS SLOPE ON THE LOW SIDE SHALL BE THE SAME AS THE TRAVEL LANE CROSS SLOPE WHEN SUPERELEVATION IS 4% OR GREATER.
3. SEE GRADES AND GEOMETRICS SHEETS FOR SUPERELEVATION TRANSITIONS.
4. SEE ROADSIDE GRADING TREATMENT DETAILS FOR CHANGES IN TYPICAL ROADSIDE TREATMENT.
5. SEE TYPICAL MEDIAN SUPERELEVATION SECTIONS FOR GRADING DETAIL IN SUPERELEVATED TRANSITION AREAS.
6. SEE CROSS-SECTIONS FOR ALL VARYING CROSS-SLOPE RATES AND SIDE SLOPE RATES.

P.G.L. - PROFILE GRADE LINE.
 P.G.A. - POINT OF GRADE APPLICATION.
 P/R - POINT OF ROTATION.
 PDGA - POINT OF DITCH GRADE APPLICATION.

LEGEND

- | | |
|---|---|
| (A) ITEM *209001, BORROW TYPE A | (P) ITEM *701010, PORTLAND CEMENT CONCRETE CURB, TYPE 1-8 |
| (B) ITEM *209006, BORROW TYPE F | (Q) ITEM *701013, PORTLAND CEMENT CONCRETE CURB, TYPE 1-2 (SEE CONSTRUCTION DETAILS) |
| (C) ITEM *304502, SOIL CEMENT BASE COURSE | (R) ITEM *401504, HOT MIX, HOT-LAID BITUMINOUS CONCRETE PAVEMENT TYPE C, 2" THICK |
| (D) ITEM *304501, PERMEABLE TREATED BASE, 4" | (S) ITEM *401827, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATED STONE) |
| (E) ITEM *501006, PORTLAND CEMENT CONCRETE PAVEMENT | (T) ITEM *401833, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22 (NON-CARBONATE STONE) |
| (F) ITEM *715001, PERFORATED PIPE UNDERDRAIN | (U) ITEM *401517, STONE MATRIX ASPHALT |
| (G) ITEM *705002, P.C.C. SIDEWALK, 6" | (V) ITEM *401663, SUPERPAVE BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 |
| (H) ITEM *701016, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-4 | (W) ITEM *401816, WMA SUPERPAVE, TYPE B, 160 GYRATIONS, PG 76-22 |
| (I) ITEM *733002, TOPSOILING, 6" DEPTH | (X) ITEM *743017, PORTABLE BARRIER |
| ITEM *734013, PERMANENT GRASS SEEDING, DRY GROUND | (Y) ITEM *701022, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8 |
| (J) ITEM *302007, GRADED AGGREGATE BASE COURSE, TYPE B | (Z) ITEM *701011, PORTLAND CEMENT CONCRETE CURB, TYPE 2 |
| (K) ITEM *735535 SOIL RETENTION BLANKET MULCH, TYPE 5 UNLESS OTHERWISE NOTED IN DT-16 | (AA) ITEM *701021, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2 |
| (L) ITEM *401801, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE) | (BB) ITEM *760507, PROFILE MILLING, HOT MIX |
| (M) ITEM *401810, WMA SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22 | (CC) ITEM *760006, PAVEMENT MILLING, HOT MIX, 2" DEPTH |
| (N) ITEM *401819, WMA SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 | (DD) ITEM *760016, RUMBLE STRIPS, HOT MIX |
| (O) ITEM *705001, P.C.C. SIDEWALK, 4" | (EE) ITEM *401813, WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22 |

ADDENDUMS / REVISIONS

NOT TO SCALE

US 301
 MARYLAND STATE LINE
 TO LEVELS ROAD

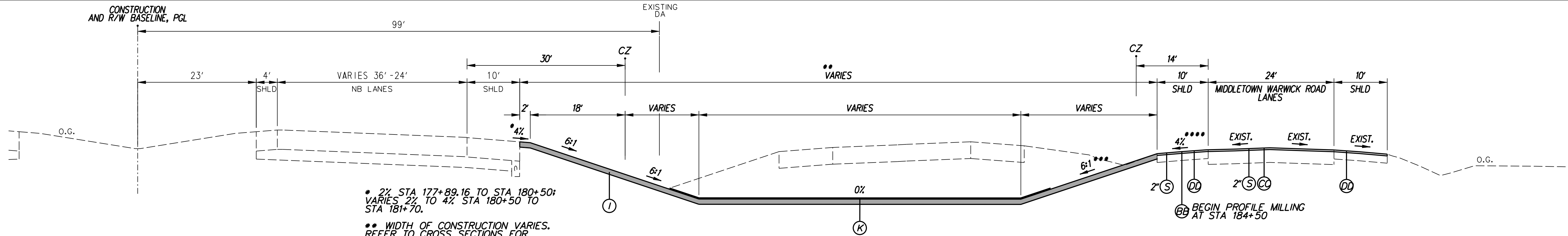
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: ES
NEW CASTLE	CHECKED BY: MFM

TYPICAL SECTIONS



J:\2008 PROJECTS\E3\34801\700CADD\750AET\DESIGN_SECTION_2_PLANS\MD_301AETDS2_001.DGN

MD-01
 SHEET NO.
 1113
 TOTAL SHTS.
 1256



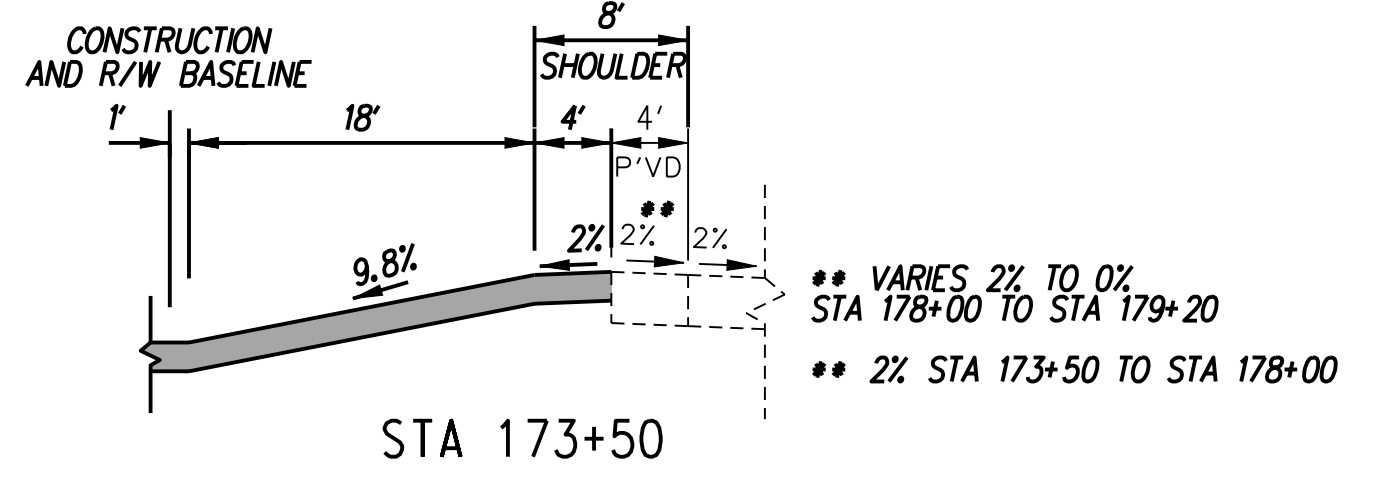
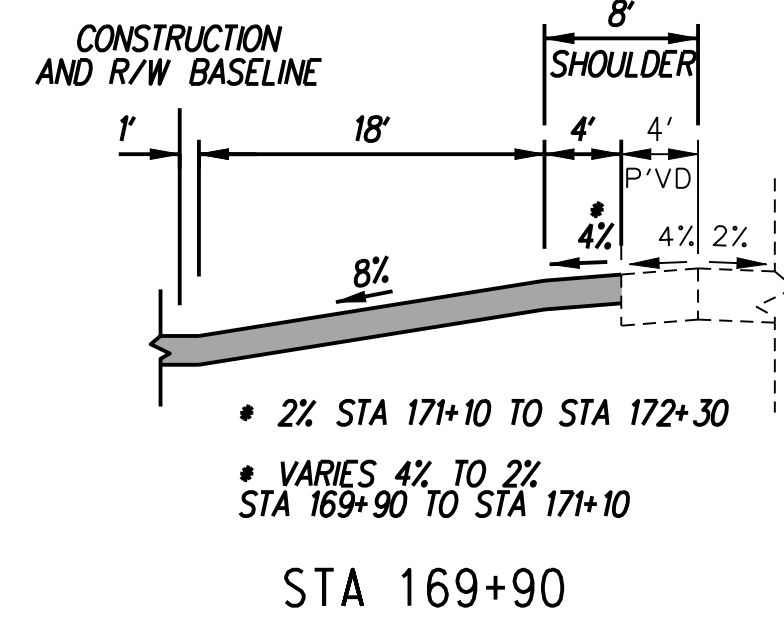
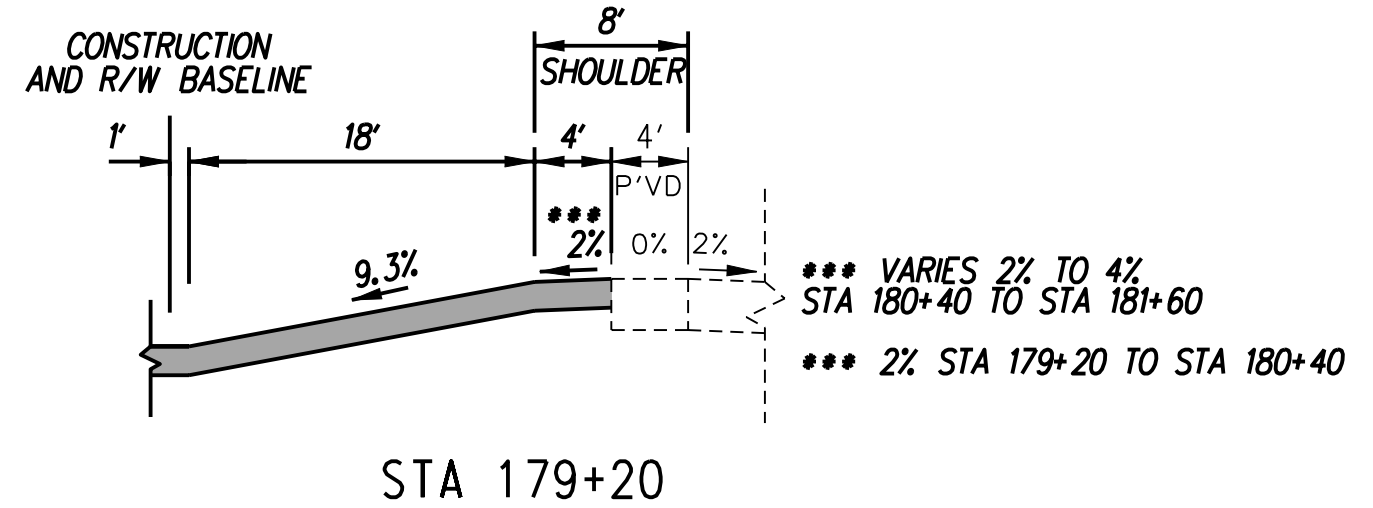
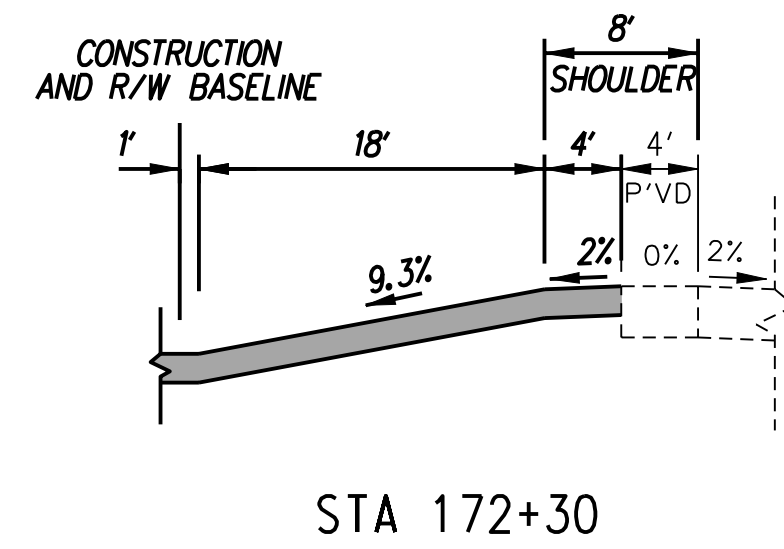
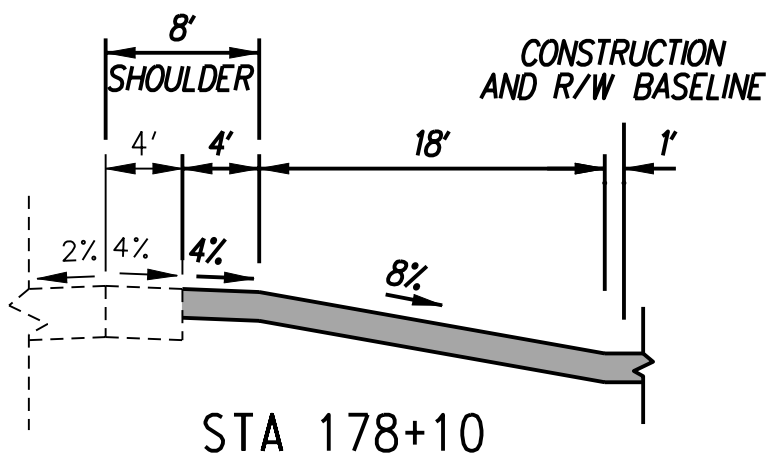
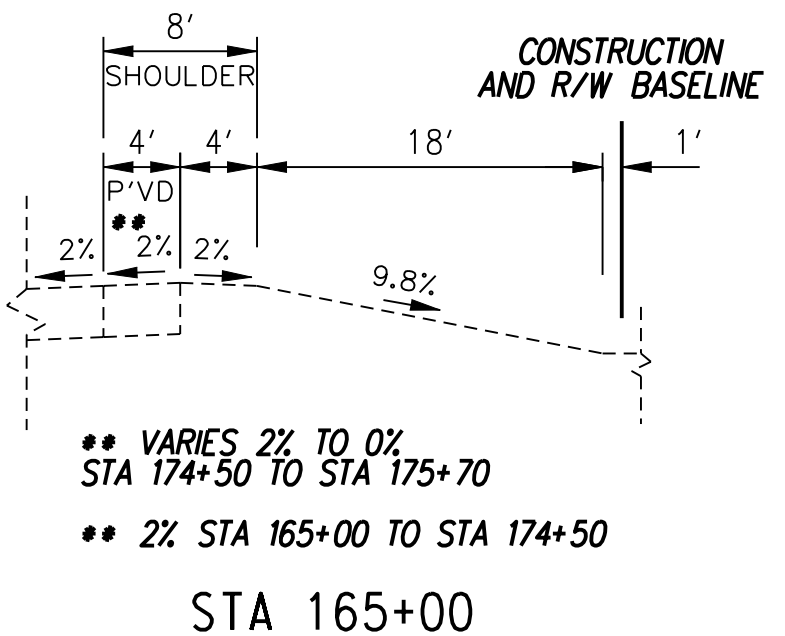
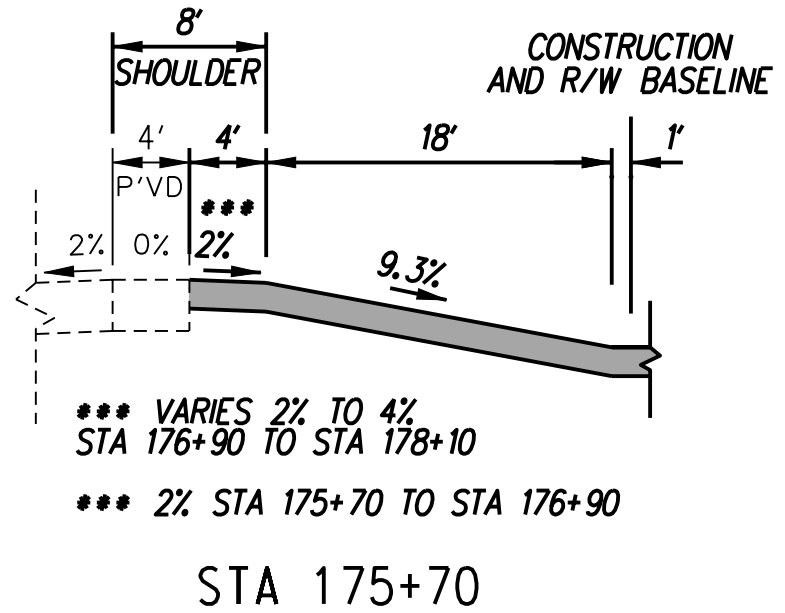
* 2% STA 177+89.16 TO STA 180+50;
VARIES 2% TO 4% STA 180+50 TO STA 181+70.

** WIDTH OF CONSTRUCTION VARIES. REFER TO CROSS SECTIONS FOR GRADING LIMITS.

*** SLOPE VARIES FROM STA 186+00 TO STA 186+25. REFER TO CROSS SECTIONS FOR GRADING DETAILS.

**** MATCH EXISTING SLOPE FROM STA 177+89.16 TO STA 184+50. 4% STA 184+50 TO 186+25.

TYPICAL NORMAL SECTION US 301
STA 177+89.16 TO STA 186+25.00



MEDIAN TRANSITION DETAIL (RIGHT)

MEDIAN TRANSITION DETAIL (LEFT)

NOTE: TRANSITION DETAIL SHOWN BEYOND CONSTRUCTION LIMITS FOR INFORMATION ONLY.

- NOTES:**
1. THE ALGEBRAIC DIFFERENCE BETWEEN THE TRAVEL LANE SLOPE AND SHOULDER SLOPE SHALL NOT EXCEED 8%.
 2. SHOULDER CROSS SLOPE ON THE LOW SIDE SHALL BE THE SAME AS THE TRAVEL LANE CROSS SLOPE WHEN SUPERELEVATION IS 4% OR GREATER.
 3. SEE GRADES AND GEOMETRICS SHEETS FOR SUPERELEVATION TRANSITIONS.
 4. SEE ROADSIDE GRADING TREATMENT DETAILS FOR CHANGES IN TYPICAL ROADSIDE TREATMENT.
 5. SEE TYPICAL MEDIAN SUPERELEVATION SECTIONS FOR GRADING DETAIL IN SUPERELEVATED TRANSITION AREAS.
 6. SEE CROSS-SECTIONS FOR ALL VARYING CROSS-SLOPE RATES AND SIDE SLOPE RATES.

P.G.L. - PROFILE GRADE LINE.
P.G.A. - POINT OF GRADE APPLICATION.
P/R - POINT OF ROTATION.
PDGA - POINT OF DITCH GRADE APPLICATION.

LEGEND	
(A) ITEM *209001, BORROW TYPE A	(P) ITEM *701010, PORTLAND CEMENT CONCRETE CURB, TYPE 1-8
(B) ITEM *209006, BORROW TYPE F	(Q) ITEM *701013, PORTLAND CEMENT CONCRETE CURB, TYPE 1-2 (SEE CONSTRUCTION DETAILS)
(C) ITEM *304502, SOIL CEMENT BASE COURSE	(R) ITEM *401504, HOT MIX, HOT-LAID BITUMINOUS CONCRETE PAVEMENT TYPE C, 2" THICK
(D) ITEM *304501, PERMEABLE TREATED BASE, 4"	(S) ITEM *401827, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATED STONE)
(E) ITEM *501006, PORTLAND CEMENT CONCRETE PAVEMENT	(T) ITEM *401833, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22 (NON-CARBONATE STONE)
(F) ITEM *715001, PERFORATED PIPE UNDERDRAIN	(U) ITEM *401517, STONE MATRIX ASPHALT
(G) ITEM *705002, P.C.C. SIDEWALK, 6"	(V) ITEM *401663, SUPERPAVE BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
(H) ITEM *701016, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-4	(W) ITEM *401816, WMA SUPERPAVE, TYPE B, 160 GYRATIONS, PG 76-22
(I) ITEM *733002, TOPSOILING, 6" DEPTH ITEM *734013, PERMANENT GRASS SEEDING, DRY GROUND	(X) ITEM *743017, PORTABLE BARRIER
(J) ITEM *302007, GRADED AGGREGATE BASE COURSE, TYPE B	(Y) ITEM *701022, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8
(K) ITEM *735535 SOIL RETENTION BLANKET MULCH, TYPE 5 UNLESS OTHERWISE NOTED IN DT-16	(Z) ITEM *701011, PORTLAND CEMENT CONCRETE CURB, TYPE 2
(L) ITEM *401801, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)	(AA) ITEM *701021, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2
(M) ITEM *401810, WMA SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22	(BB) ITEM *760507, PROFILE MILLING, HOT MIX
(N) ITEM *401819, WMA SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22	(CC) ITEM *760006, PAVEMENT MILLING, HOT MIX, 2" DEPTH
(O) ITEM *705001, P.C.C. SIDEWALK, 4"	(DD) ITEM *760016, RUMBLE STRIPS, HOT MIX
	(EE) ITEM *401813, WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22



ADDENDUMS / REVISIONS

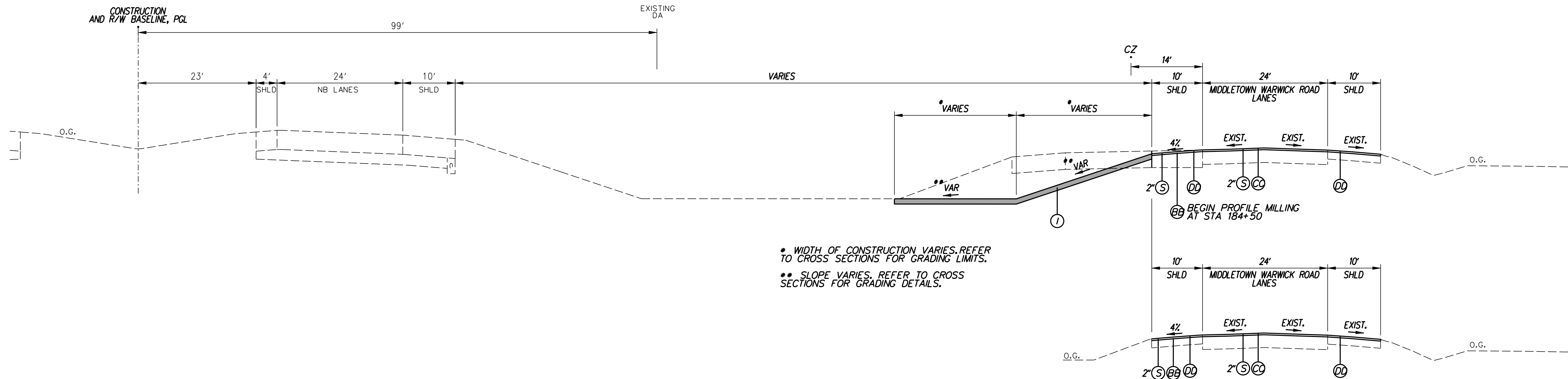
NOT TO SCALE

US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT	BRIDGE NO.
T200911303	DESIGNED BY: ES
COUNTY	CHECKED BY: MFM
NEW CASTLE	

TYPICAL SECTIONS
SHEET NO.
1114
TOTAL SHTS.
1256

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* WIDTH OF CONSTRUCTION VARIES. REFER TO CROSS SECTIONS FOR GRADING LIMITS.
 ** SLOPE VARIES. REFER TO CROSS SECTIONS FOR GRADING DETAILS.

TYPICAL NORMAL SECTION US 301
 STA 186+25.00 TO STA 193+58.00

STA 191+58.35 TO STA 193+58.00

NOTES:

1. THE ALGEBRAIC DIFFERENCE BETWEEN THE TRAVEL LANE SLOPE AND SHOULDER SLOPE SHALL NOT EXCEED 8%.
2. SHOULDER CROSS SLOPE ON THE LOW SIDE SHALL BE THE SAME AS THE TRAVEL LANE CROSS SLOPE WHEN SUPERELEVATION IS 4% OR GREATER.
3. SEE GRADES AND GEOMETRICS SHEETS FOR SUPERELEVATION TRANSITIONS.
4. SEE ROADSIDE GRADING TREATMENT DETAILS FOR CHANGES IN TYPICAL ROADSIDE TREATMENT.
5. SEE TYPICAL MEDIAN SUPERELEVATION SECTIONS FOR GRADING DETAIL IN SUPERELEVATED TRANSITION AREAS.
6. SEE CROSS-SECTIONS FOR ALL VARYING CROSS-SLOPE RATES AND SIDE SLOPE RATES.

P.G.L. - PROFILE GRADE LINE.
 P.G.A. - POINT OF GRADE APPLICATION.
 P/R - POINT OF ROTATION.
 PDGA - POINT OF DITCH GRADE APPLICATION.

LEGEND

- | | |
|---|---|
| (A) ITEM *209001, BORROW TYPE A | (P) ITEM *701010, PORTLAND CEMENT CONCRETE CURB, TYPE 1-8 |
| (B) ITEM *209006, BORROW TYPE F | (Q) ITEM *701013, PORTLAND CEMENT CONCRETE CURB, TYPE 1-2 (SEE CONSTRUCTION DETAILS) |
| (C) ITEM *304502, SOIL CEMENT BASE COURSE | (R) ITEM *401504, HOT MIX, HOT-LAID BITUMINOUS CONCRETE PAVEMENT TYPE C, 2" THICK |
| (D) ITEM *304501, PERMEABLE TREATED BASE, 4" | (S) ITEM *401827, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATED STONE) |
| (E) ITEM *501006, PORTLAND CEMENT CONCRETE PAVEMENT | (T) ITEM *401833, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22 (NON-CARBONATE STONE) |
| (F) ITEM *715001, PERFORATED PIPE UNDERDRAIN | (U) ITEM *401517, STONE MATRIX ASPHALT |
| (G) ITEM *705002, P.C.C. SIDEWALK, 6" | (V) ITEM *401663, SUPERPAVE BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 |
| (H) ITEM *701016, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-4 | (W) ITEM *401816, WMA SUPERPAVE, TYPE B, 160 GYRATIONS, PG 76-22 |
| (I) ITEM *733002, TOPSOILING, 6" DEPTH
ITEM *734013, PERMANENT GRASS SEEDING, DRY GROUND | (X) ITEM *743017, PORTABLE BARRIER |
| (J) ITEM *302007, GRADED AGGREGATE BASE COURSE, TYPE B | (Y) ITEM *701022, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8 |
| (K) ITEM *735535 SOIL RETENTION BLANKET MULCH, TYPE 5 UNLESS OTHERWISE NOTED IN DT-16 | (Z) ITEM *701011, PORTLAND CEMENT CONCRETE CURB, TYPE 2 |
| (L) ITEM *401801, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE) | (AA) ITEM *701021, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2 |
| (M) ITEM *401810, WMA SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22 | (BB) ITEM *760507, PROFILE MILLING, HOT MIX |
| (N) ITEM *401819, WMA SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 | (CC) ITEM *760006, PAVEMENT MILLING, HOT MIX, 2" DEPTH |
| (O) ITEM *705001, P.C.C. SIDEWALK, 4" | (DD) ITEM *760016, RUMBLE STRIPS, HOT MIX |
| | (EE) ITEM *401813, WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22 |

ADDENDUMS / REVISIONS

NOT TO SCALE

US 301
 MARYLAND STATE LINE
 TO LEVELS ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: ES
NEW CASTLE	CHECKED BY: MFM

TYPICAL SECTIONS

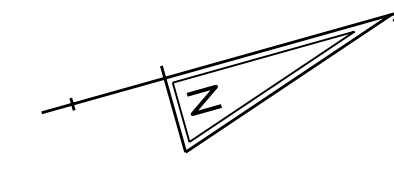


HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP 215	188+96.8499	270.9542	520291.9595	559016.4551	69.01
TP 216	202+30.0224	263.0342	521577.6566	559369.1514	65.54

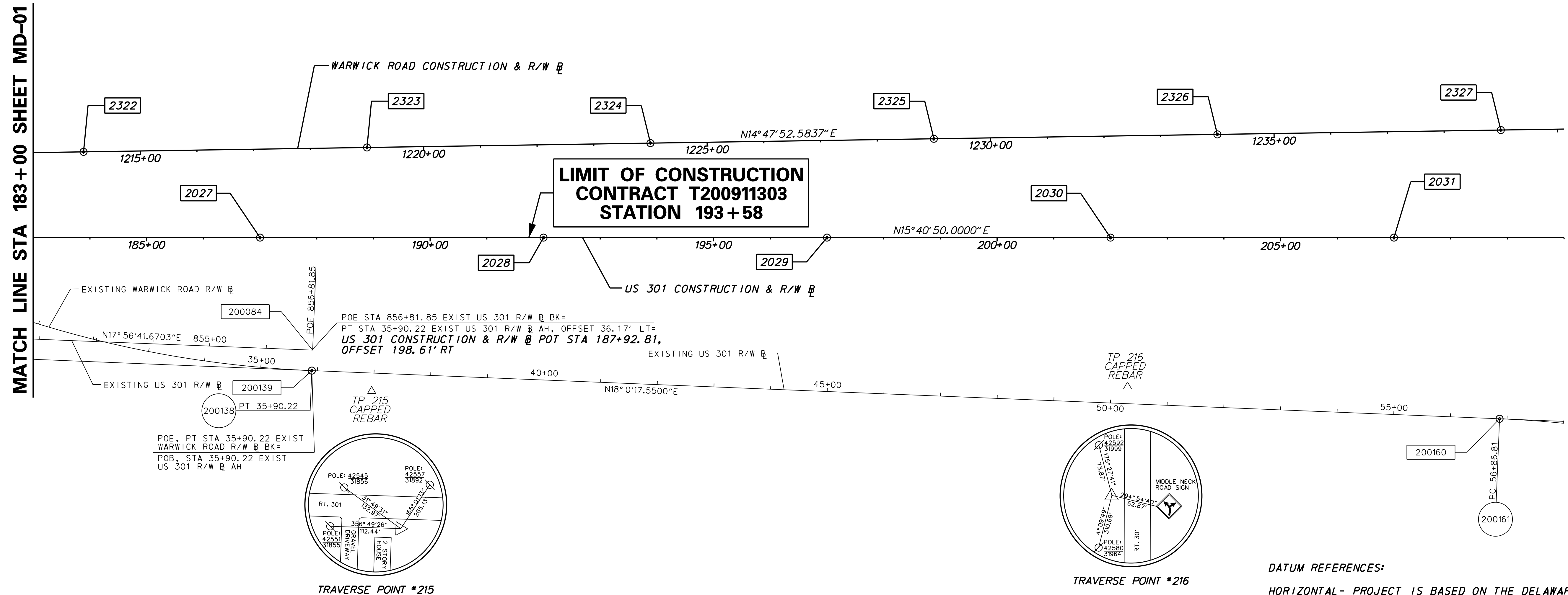
CONSTRUCTION ALIGNMENT CONTROL					
POINT	STATION	OFFSET	NORTHING	EASTING	
2027	187+00.0000	0.0000	520175.6674	558702.3815	
2028	192+00.0000	0.0000	520657.0592	558837.5184	
2029	197+00.0000	0.0000	521138.4510	558972.6552	
2030	202+00.0000	0.0000	521619.8427	559107.7921	
2031	207+00.0000	0.0000	522101.2345	559242.9290	
2322	1214+00.0000	0.0000	519916.8714	558472.5457	
2323	1219+00.0000	0.0000	520400.2877	558600.2512	
2324	1224+00.0000	0.0000	520883.7040	558727.9567	
2325	1229+00.0000	0.0000	521367.1203	558855.6622	
2326	1234+00.0000	0.0000	521850.5366	558983.3677	
2327	1239+00.0000	0.0000	522333.9529	559111.0732	

CIRCULAR CURVE NO. 200138			
ELEMENT CIRCULAR	STATION	NORTHING	EASTING
PC (200137)	21+22.9052	519103.8096	558032.6596
PI (503)	28+94.9135	519465.9576	558714.4555
CC (200138)	35+90.2166	520790.4945	557136.7470
PT (200139)	35+90.2166	520200.1608	558953.0816
Radius:		1909.8600	
Delta:		44° 01'09.5756" Left	
Degree of Curvature(Arc):		2° 59'59.9961"	
Length:		1467.3114	
Tangent:		772.0082	
Chord:		1431.4896	
Middle Ordinate:		139.1893	
External:		150.1308	
Tangent Direction:		N 62° 01'27.1256" E	
Radial Direction:		S 27° 58'32.8744" E	
Chord Direction:		N 40° 00'52.3378" E	
Radial Direction:		S 71° 59'42.4500" E	
Tangent Direction:		N 18° 00'17.5500" E	

CIRCULAR CURVE NO. 200161			
ELEMENT CIRCULAR	STATION	NORTHING	EASTING
PC (200160)	56+86.8132	522194.0875	559601.1352
PI (504)	63+56.5721	522831.0484	559808.1563
CC (200161)	69+75.1465	521603.7539	561417.4691
PT (200162)	69+75.1465	523199.2021	560367.6559
Radius:		1909.8593	
Delta:		38° 39'00.0000" Right	
Degree of Curvature(Arc):		3° 00'00.0001"	
Length:		1288.3333	
Tangent:		669.7589	
Chord:		1264.0449	
Middle Ordinate:		107.6079	
External:		114.0329	
Tangent Direction:		N 18° 00'17.5500" E	
Radial Direction:		S 71° 59'42.4500" E	
Chord Direction:		N 37° 19'47.5500" E	
Radial Direction:		S 33° 20'42.4500" E	
Tangent Direction:		N 56° 39'17.5500" E	



EXISTING ALIGNMENT CONTROL					
POINT	STATION	OFFSET	NORTHING	EASTING	
200084	856+81.8482	0.0000	520211.3401	558918.6851	
200139	35+90.2166	0.0000	520200.1608	558953.0816	
200160	56+86.8132	0.0000	522194.0875	559601.1352	

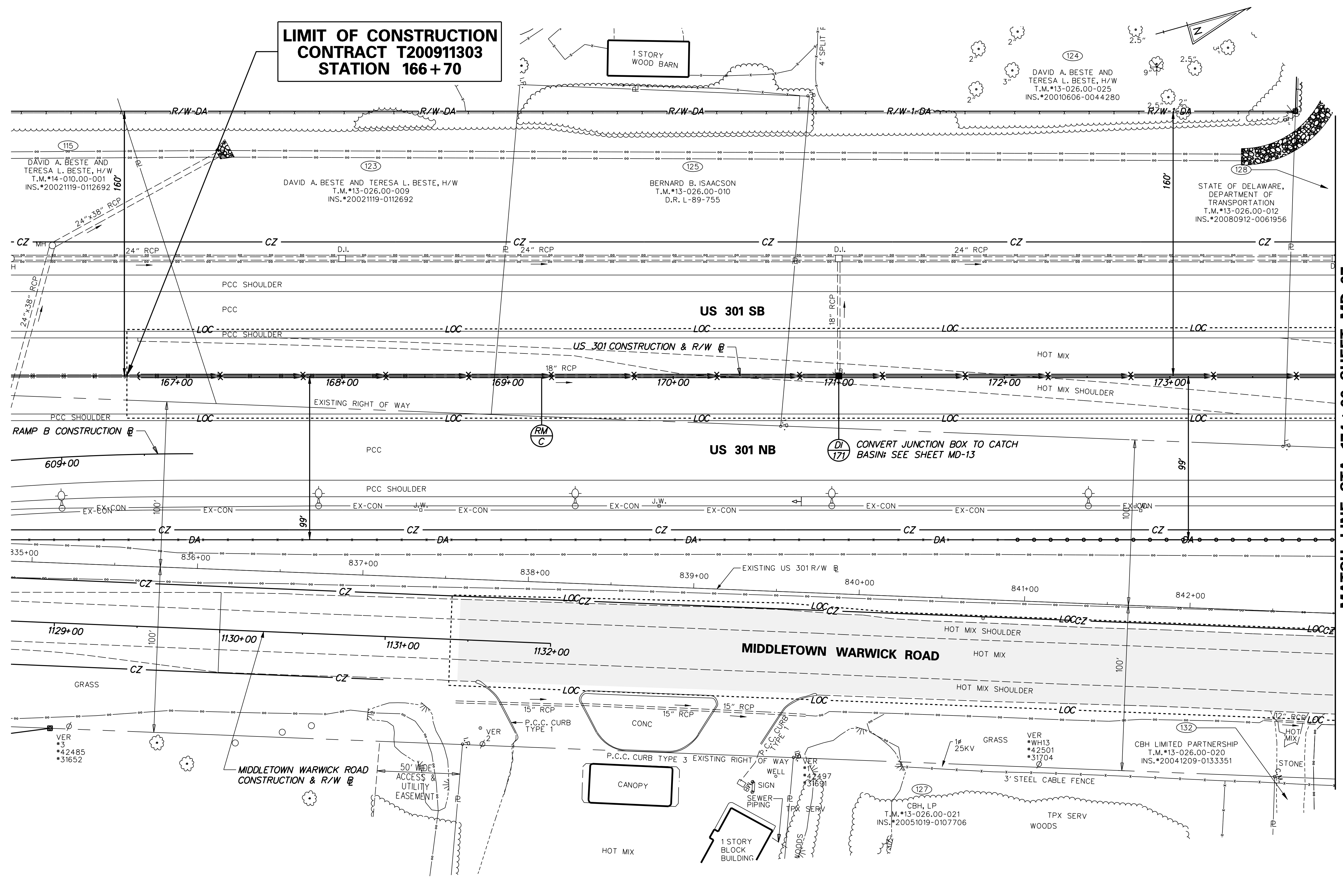


DATUM REFERENCES:
 HORIZONTAL - PROJECT IS BASED ON THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83).
 VERTICAL - PLAN ELEVATIONS ARE BASED ON N. G. S. SURVEY DATUM (NAVD 88).

J:\2008 PROJECTS\E3X34801\700CADD\750AET\DESIGN SECTION 2 PLANS\MD_301AETDS2_005.DGN

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE FEET	US 301 MARYLAND STATE LINE TO LEVELS ROAD	CONTRACT T200911303	BRIDGE NO.	HORIZONTAL AND VERTICAL CONTROL	SHEET NO. 1117
			NEW CASTLE	DESIGNED BY: MFM	TOTAL SHTS. 1256		
			CHECKED BY: SKH				

**LIMIT OF CONSTRUCTION
CONTRACT T200911303
STATION 166+70**



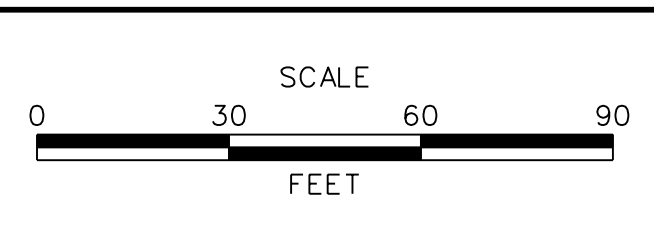
MATCH LINE STA 174+00 SHEET MD-07

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
171	171+00.00	0.00	48" x 30"	1	78.25	74.67

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ADDENDUMS / REVISIONS	



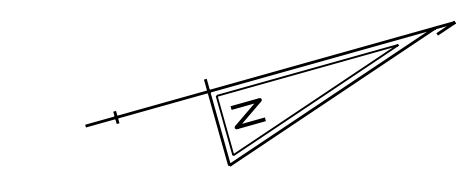
**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

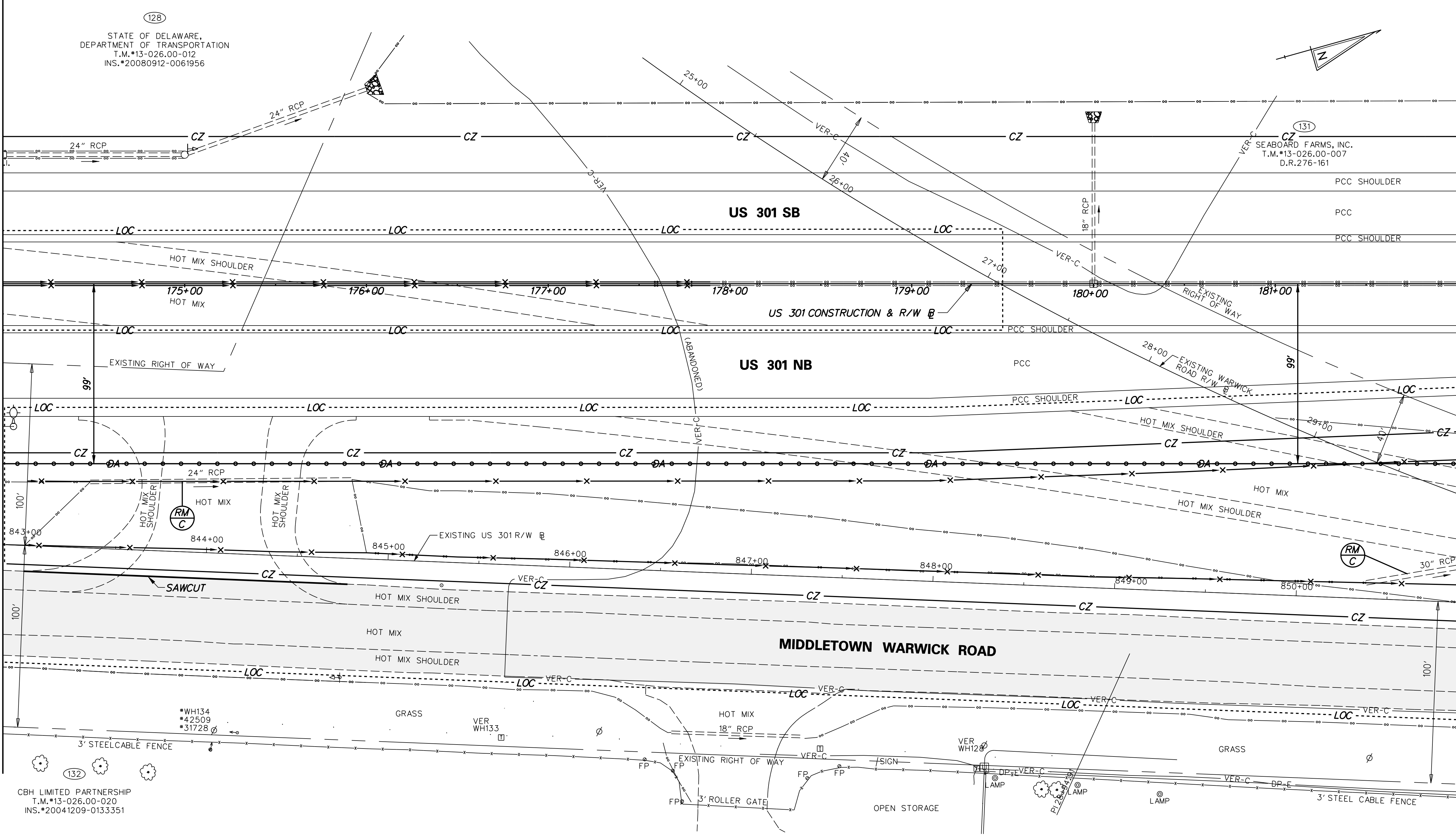
MD-06
SHEET NO. 1118
TOTAL SHTS. 1256

STATE OF DELAWARE,
DEPARTMENT OF TRANSPORTATION
T.M.#13-026.00-012
INS.#20080912-0061956



MATCH LINE STA 174+00 SHEET MD-06

MATCH LINE STA 182+00 SHEET MD-08

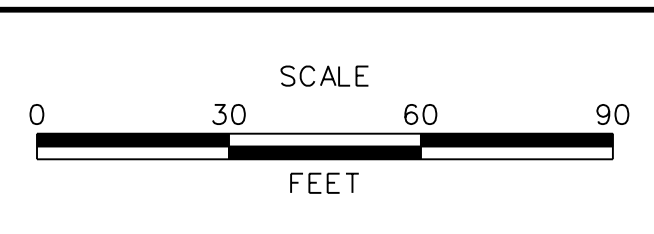


CBH LIMITED PARTNERSHIP
T.M.#13-026.00-020
INS.#20041209-0133351

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ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM CHECKED BY: SKH

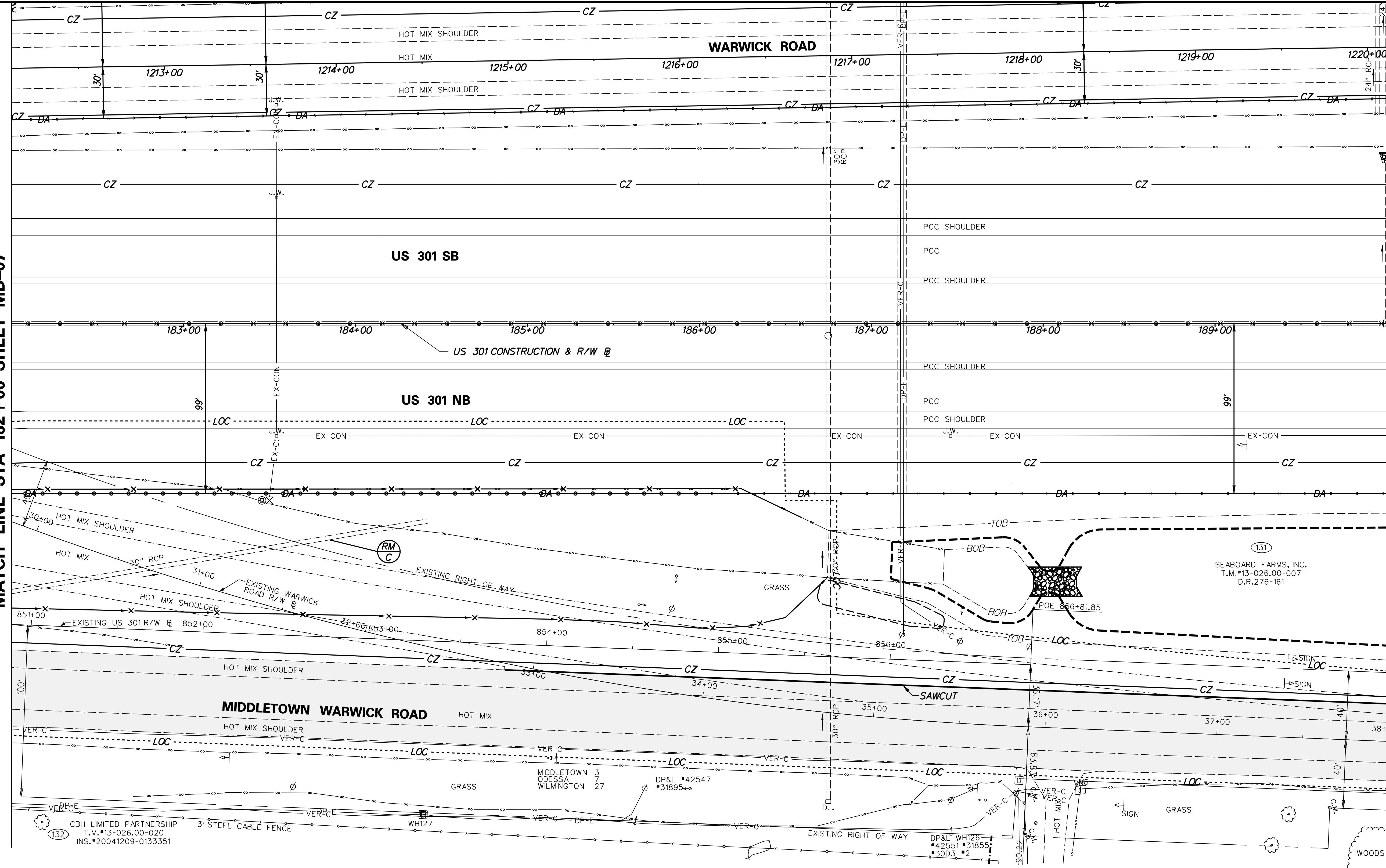
CONSTRUCTION PLAN

MD-07
SHEET NO. 1119
TOTAL SHTS. 1256

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MATCH LINE STA 182+00 SHEET MD-07

MATCH LINE STA 190+00 SHEET MD-09



ADDENDUMS / REVISIONS	



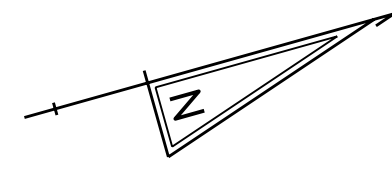
**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

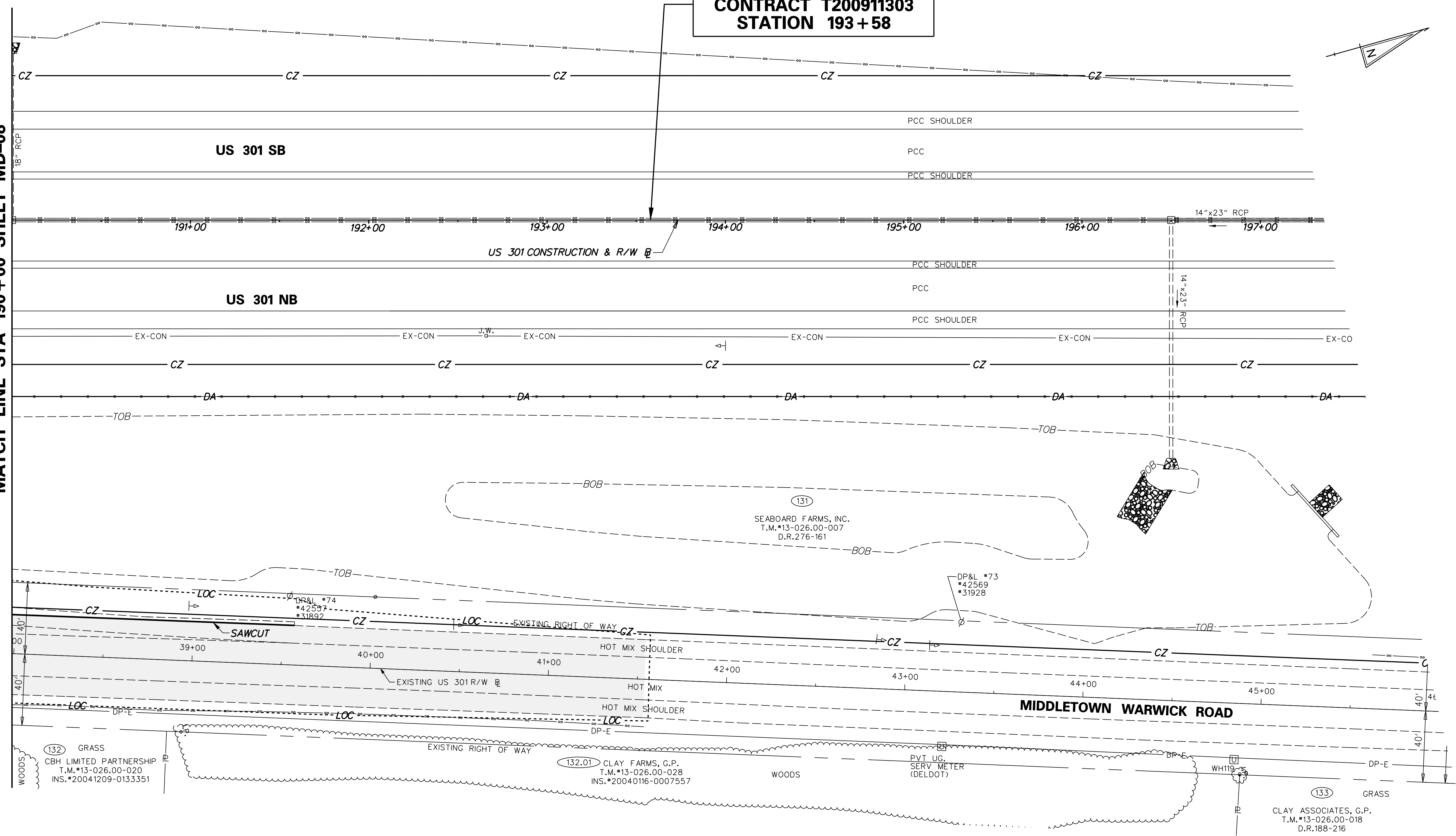
CONSTRUCTION PLAN

MD-08
SHEET NO. 1120
TOTAL SHTS. 1256

**LIMIT OF CONSTRUCTION
CONTRACT T200911303
STATION 193+58**



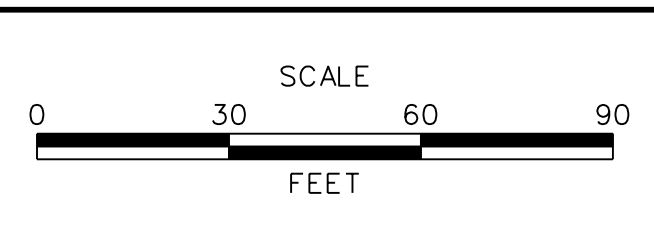
MATCH LINE STA 190+00 SHEET MD-08



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ADDENDUMS / REVISIONS	



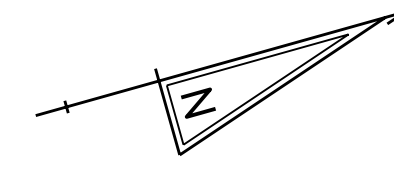
**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

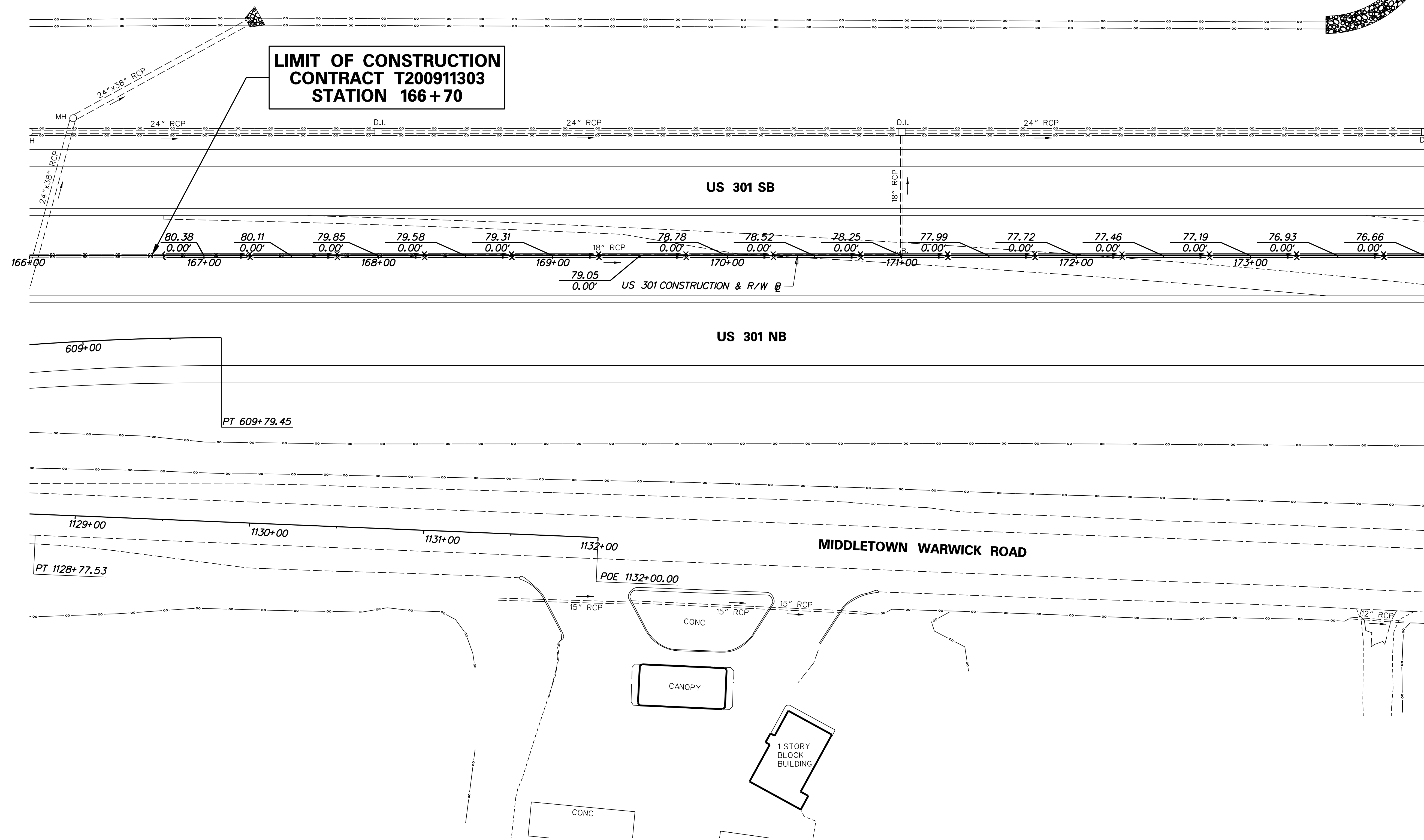
CONSTRUCTION PLAN

MD-09
SHEET NO. 1121
TOTAL SHTS. 1256

1 STORY
WOOD BARN



**LIMIT OF CONSTRUCTION
CONTRACT T200911303
STATION 166+70**

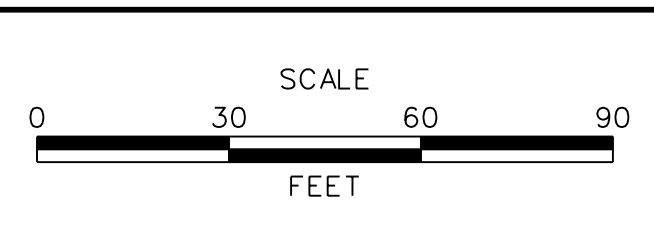


MATCH LINE STA 174+00 SHEET MD-11

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

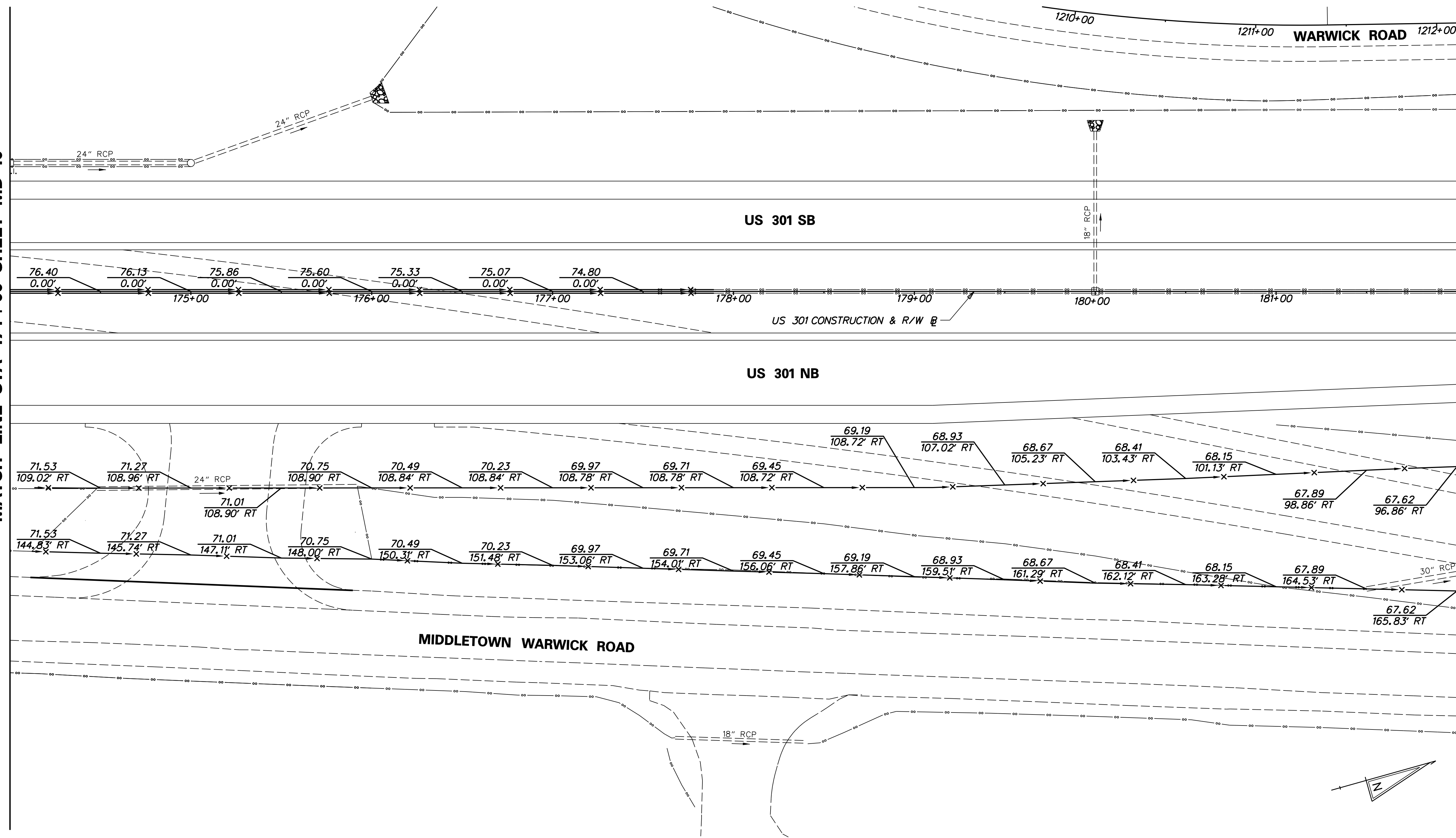
GRADES & GEOMETRICS

MD-10
SHEET NO. 1122
TOTAL SHTS. 1256

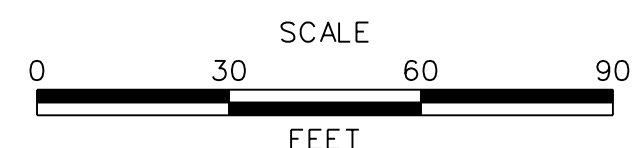
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MATCH LINE STA 174+00 SHEET MD-10

MATCH LINE STA 182+00 SHEET MD-12



ADDENDUMS / REVISIONS	

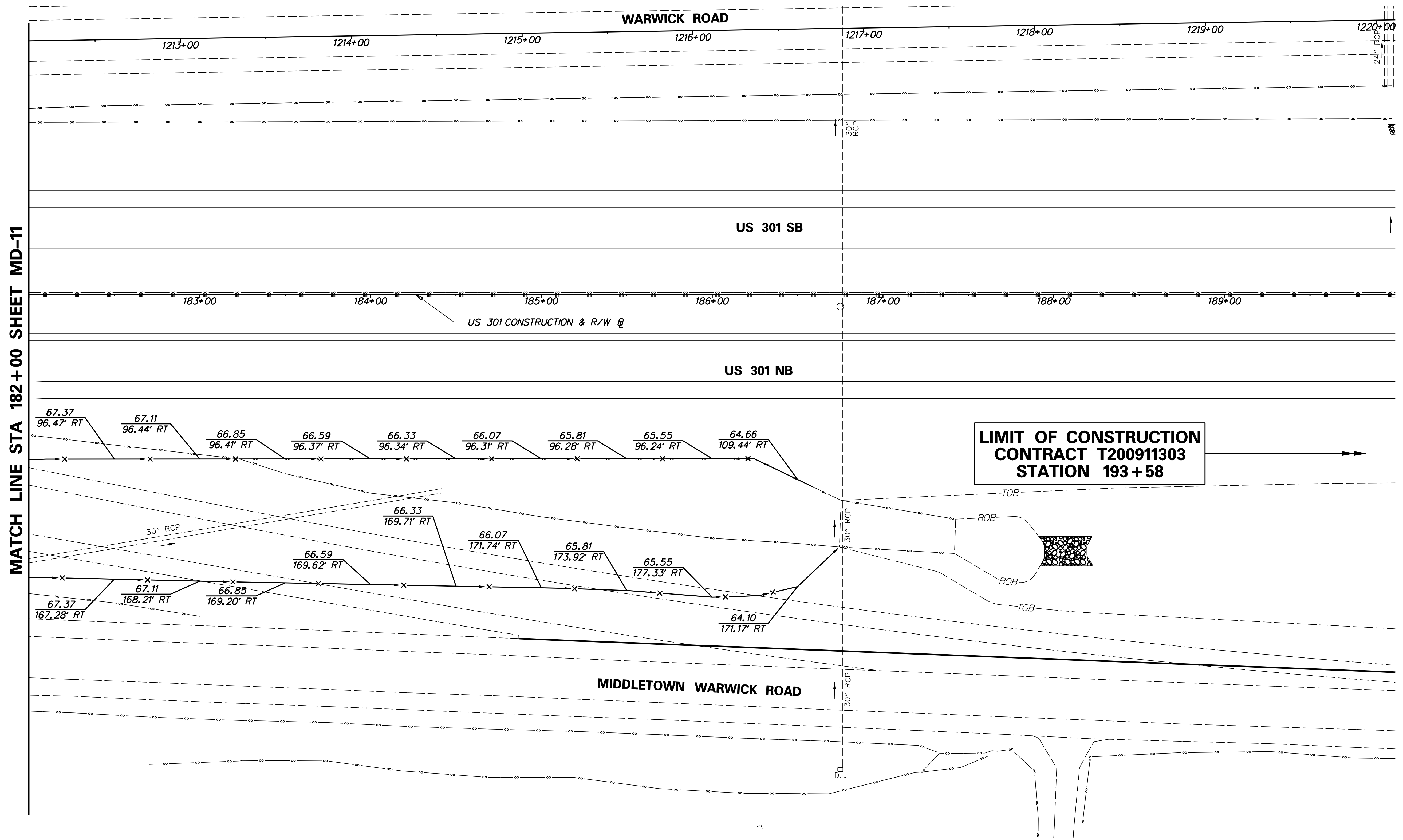
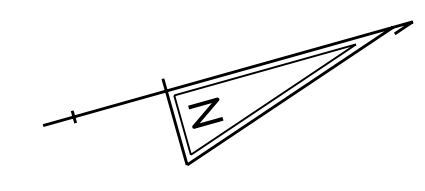


**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

GRADES & GEOMETRICS

MD-11
SHEET NO.
1123
TOTAL SHTS.
1256

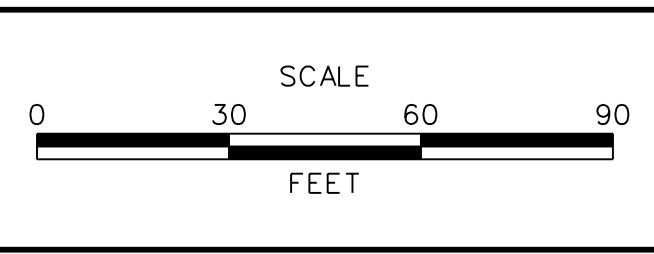


MATCH LINE STA 182 + 00 SHEET MD-11

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	

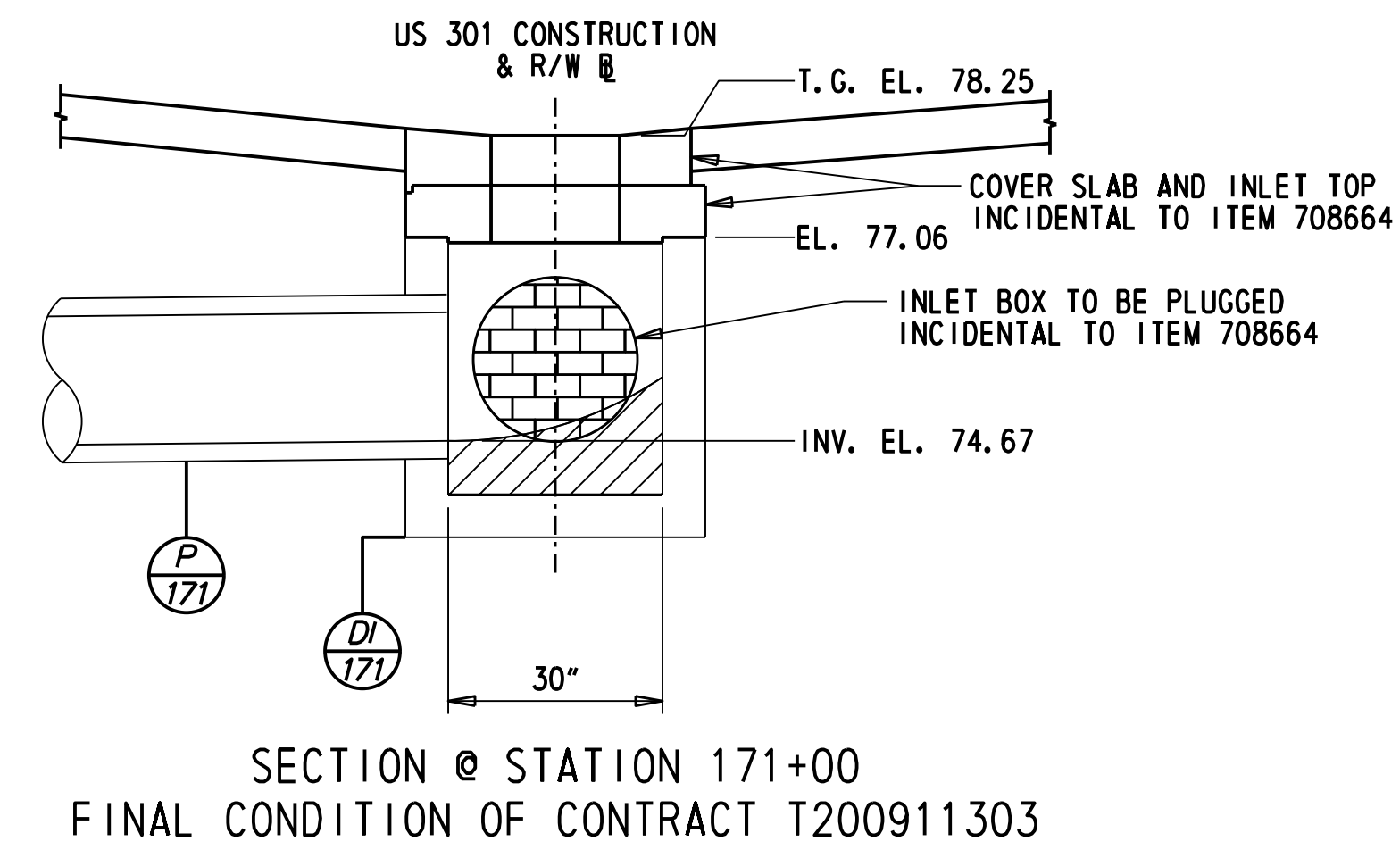
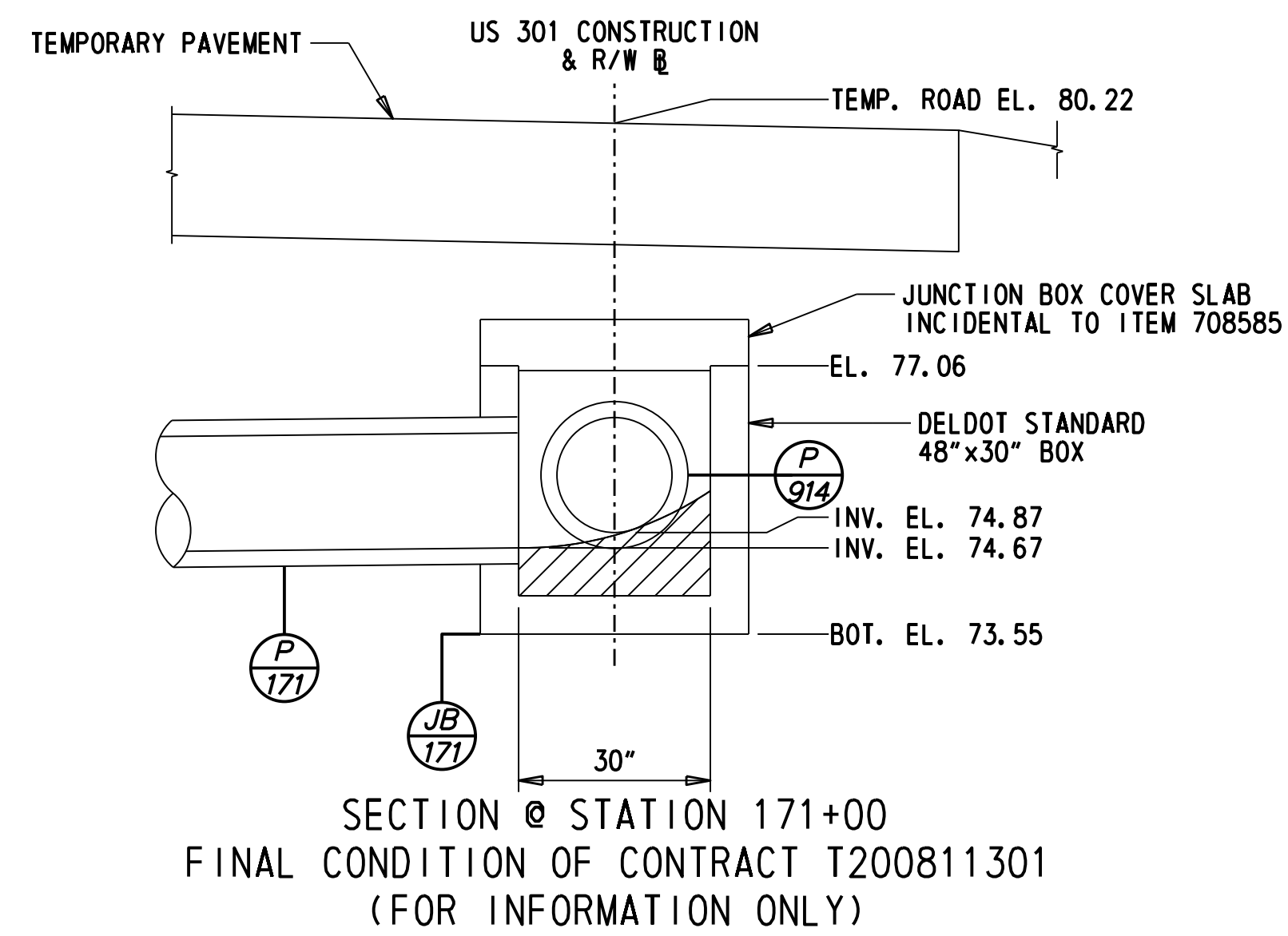


US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM CHECKED BY: SKH

GRADES & GEOMETRICS

MD-12
SHEET NO. 1124
TOTAL SHTS. 1256



CONVERT JUNCTION BOX TO CATCH BASIN DI-171

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ADDENDUMS / REVISIONS

NOT TO SCALE

US 301
MARYLAND STATE LINE
TO LEVELS ROAD

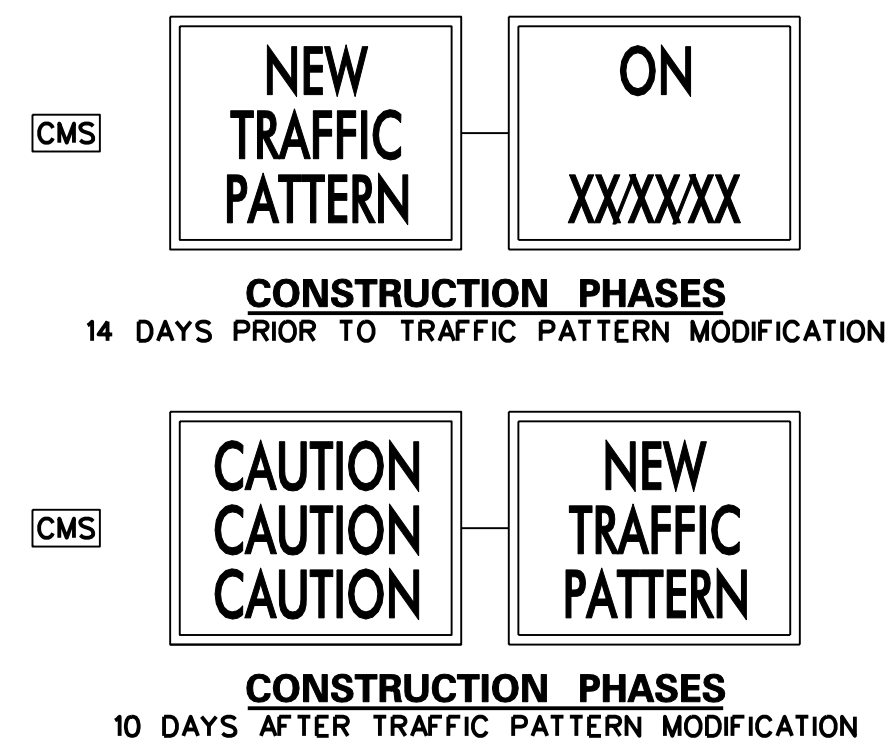
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

CONSTRUCTION DETAILS

MD-13
SHEET NO.
1125
TOTAL SHTS.
1256

MOT NOTES

1. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND LANE SHIFTS SHALL CONFORM TO TYPICAL APPLICATION TA-10 AND TA-33 OF THE DELAWARE MUTCD.
2. MAINTENANCE OF TRAFFIC DURING TEMPORARY BARRIER PLACEMENT AND REMOVAL SHALL CONFORM TO TYPICAL APPLICATION TA-10 AND TA-33 OF THE DELAWARE MUTCD.
3. MAINTENANCE OF TRAFFIC DURING LANE STRIPING AND ERADICATION OPERATIONS SHALL CONFORM TO TYPICAL APPLICATION TA-17B AND TA-35C OF THE DELAWARE MUTCD.
4. GRADING AND MAINTAINING BASE COURSE THAT IS BEING USED AS A TRAVELWAY, DRIVEWAY, ACCESS RAMP, ETC. SHALL BE INCIDENTAL TO ITEM 743000 - MAINTENANCE OF TRAFFIC. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE PAY ITEM. NO PAYMENT SHALL BE MADE FOR TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A PERMANENT ROADWAY AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM. CONSTRUCTION OF A PLANNED RUNAROUND OR DETOUR WOULD BE ELIGIBLE FOR PAYMENT AS SPECIFIED IN THE CONTRACT.
5. THIS PROJECT IS CONSIDERED A SIGNIFICANT PROJECT AS DEFINED BY DELDOT'S WORK ZONE MOBILITY PROCEDURES AND GUIDELINES. A TYPE B TRANSPORTATION MANAGEMENT PLAN (TMP) HAS BEEN PREPARED AND IS AVAILABLE FOR VIEWING BY CONTACTING THE DEPARTMENT'S SAFETY PROGRAMS MANAGER AT (302)659-4060. ALL MONITORING REQUIREMENTS OF THE TMP SHALL BE CONDUCTED BY DELDOT FORCES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MODIFICATIONS TO THE TMP SHALL BE COMPLETED BY THE CONTRACTOR IF CHANGES TO THE TIME RESTRICTIONS OR THE TRAFFIC CONTROL PLAN ARE DESIRED. THE MODIFIED TMP SHALL BE PREPARED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF DELAWARE.
6. A TYPE II TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE REQUIRED ON THIS PROJECT DURING THE FOLLOWING PAVEMENT OPERATIONS: TEMPORARY/PERMANENT PAVEMENT MARKINGS, ROADSIDE SPRAYING, PATCHING, MILLING, SWEEPING, TEMPORARY TRAFFIC BARRIER PLACEMENT OR AS DIRECTED BY THE ENGINEER. THE ROLL AHEAD DISTANCE SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE TMA SHALL CONFORM TO THE REQUIREMENTS OF SECTION 6F OF THE DELAWARE MUTCD.
 - a) WHERE PLACEMENT OF A WEDGE/FILLET BETWEEN TRAVEL LANES AND A PAVEMENT BOX IS REQUIRED, APPROVED BASE COURSE MATERIAL SHALL BE USED FOR THE FILLET MATERIAL. THE BASE COURSE MATERIAL SHALL BE PLACED AT NO GREATER THAN THE SLOPE SPECIFIED IN TABLE 6G-1 AND SHALL BE COMPACTED. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE ITEM.
 - b) WHERE PLACEMENT OF A WEDGE/FILLET AT THE EDGE OF THE ROADWAY IS REQUIRED, PAVEMENT MILLINGS SHALL BE USED FOR THE FILLET MATERIAL. PAYMENT FOR PAVEMENT MILLINGS SHALL BE INCIDENTAL TO ITEM 743000. NO SEPARATE PAYMENT SHALL BE MADE FOR PAVEMENT MILLINGS TO CORRECT PAVEMENT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY USED AS PART OF A PERMANENT ROADWAY, AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT BID ITEM.
8. PRIOR TO ANY CHANGES IN TRAFFIC PATTERNS, A CHANGEABLE MESSAGE SIGN SHALL BE PLACED ON THE APPROACH TO THE WORK AREA AS SHOWN ON THE PLANS. THE FOLLOWING CMS MESSAGES SHALL BE DISPLAYED AS NOTED BELOW.



9. OFF-PEAK WORK HOURS ARE BETWEEN 9 A.M. THROUGH 3 P.M. AND 7 P.M. THROUGH 6 A.M. MONDAY THROUGH THURSDAY. THE FOLLOWING ACTIVITIES SHALL BE PERFORMED DURING OFF-PEAK HOURS:
 - TEMPORARY BARRIER PLACEMENT AND REMOVAL
 - MILL AND OVERLAY OPERATIONS
 - CULVERT INSTALLATIONS
 - LANE CLOSURES
 - TRAFFIC SIGNAL MODIFICATIONS
 - LINE STRIPING
 - TRAFFIC PATTERN SHIFTS
10. SHEETS MD-15 THROUGH MD-21 ARE SHOWN FOR REFERENCE ONLY. TEMPORARY TRAFFIC CONTROL SHOWN ON EXISTING CONDITIONS PLAN WILL BE INSTALLED UNDER CONTRACT T200811301 AND WILL BE IN PLACE PRIOR TO THE START OF CONTRACT T200911303.
11. PHASE 3A AND 3B WORK TO BE COMPLETED DURING OFF-PEAK HOURS.

PROPOSED SYMBOLS

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	SOIL BORING
	SOIL BOUNDARY
	MnB2 SOIL DESIGNATION
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE
	TYPE C ARROW BOARD
	PORTABLE IMPACT ATTENUATOR


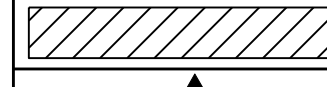

EROSION & SEDIMENT CONTROL	
	DEWATERING BASIN
	EARTH DIKE
	EROSION CONTROL BLANKET
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE / LENGTH
	SILT FENCE
	SILT FENCE - REINFORCED
	SUMP PIT, TYPE 1
	SUMP PIT, TYPE 2
	SEDIMENT TRAP IDENTIFIER
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN
	TEMPORARY HAUL ROAD

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	ADDENDUMS / REVISIONS	NOT TO SCALE	US 301 MARYLAND STATE LINE TO LEVELS ROAD	CONTRACT	BRIDGE NO.	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN	SHEET NO.		
					T200911303			1126	
					COUNTY		DESIGNED BY: MFM		TOTAL SHTS.
					NEW CASTLE		CHECKED BY: SKH		1256

MD-14

CONSTRUCTION PHASING LEGEND

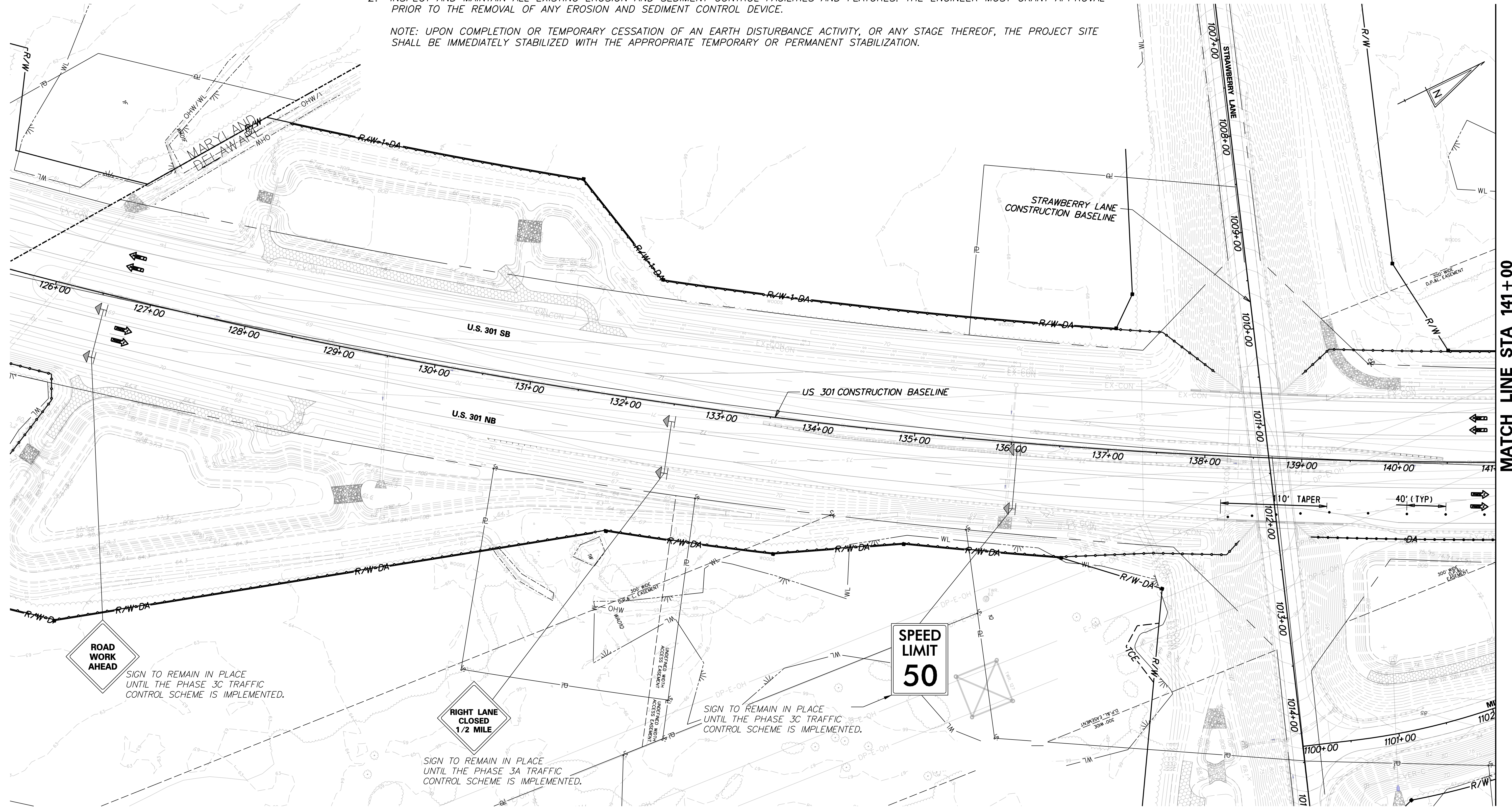
	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

SEQUENCE OF CONSTRUCTION: EXISTING CONDITIONS PLAN

OBJECTIVE: FOR INFORMATION ONLY. DISPLAY EXISTING TEMPORARY TRAFFIC CONTROL SCHEME AND DEVICES IN PLACE UPON COMPLETION OF CONTRACT T200811301.

1. INSPECT AND MAINTAIN ALL TEMPORARY TRAFFIC CONTROL DEVICES AND STRIPING AS SHOWN.
2. INSPECT AND MAINTAIN ALL EXISTING EROSION AND SEDIMENT CONTROL FACILITIES AND FEATURES. THE ENGINEER MUST GRANT APPROVAL PRIOR TO THE REMOVAL OF ANY EROSION AND SEDIMENT CONTROL DEVICE.

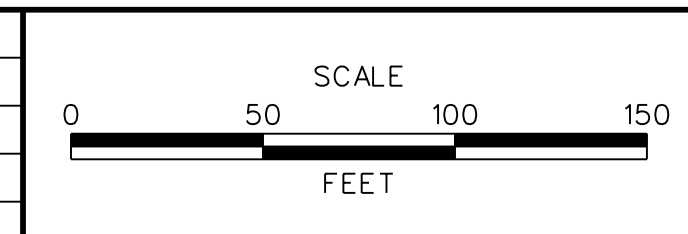
NOTE: UPON COMPLETION OR TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION.



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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	




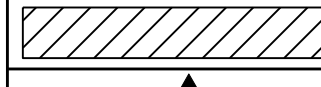

US 301 MARYLAND STATE LINE TO LEVELS ROAD

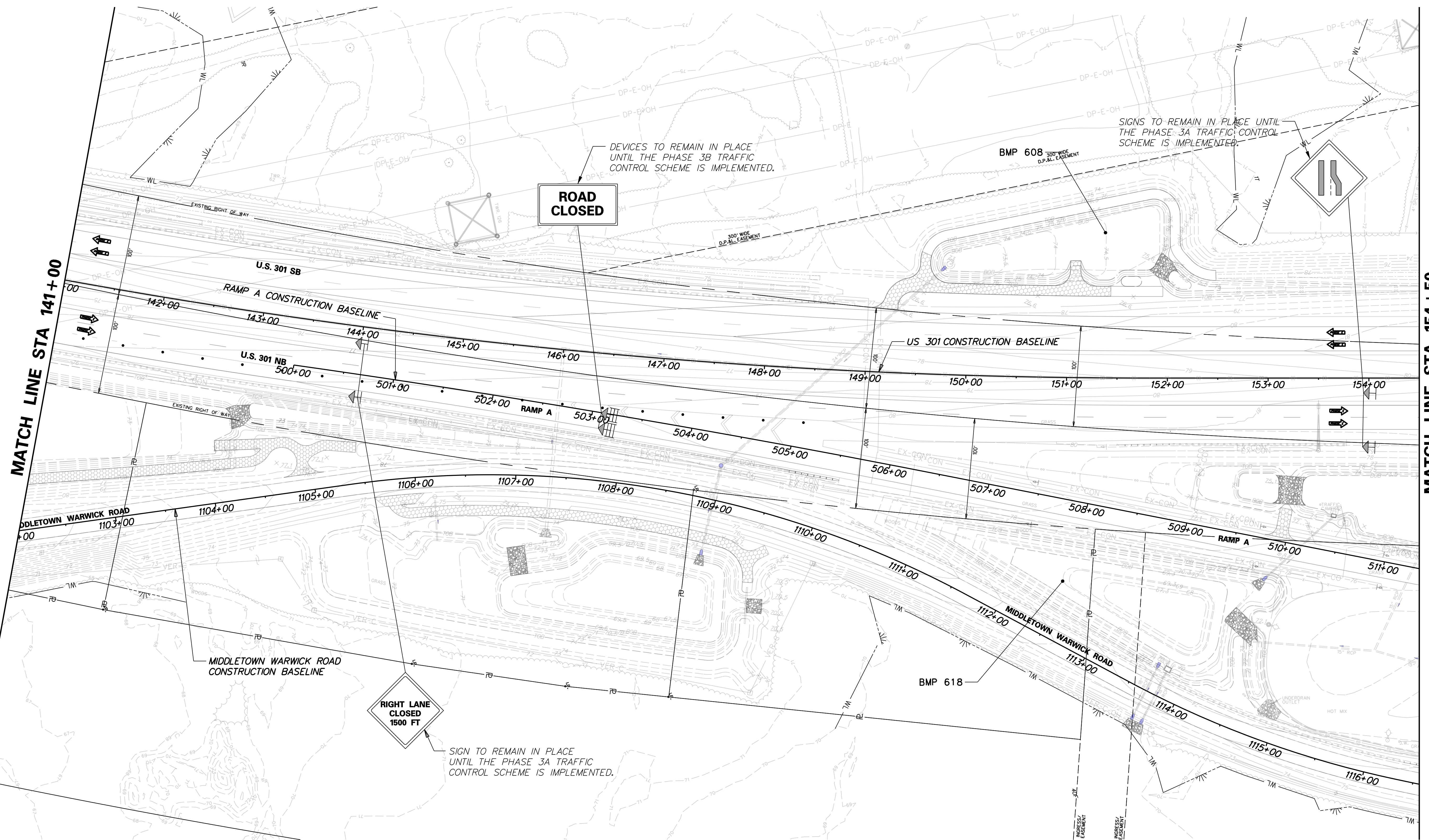
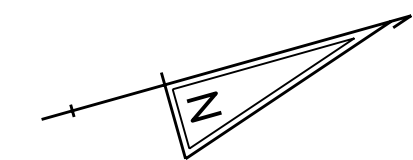
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - EXISTING CONDITION

MD-15
SHEET NO. 1127
TOTAL SHTS. 1256

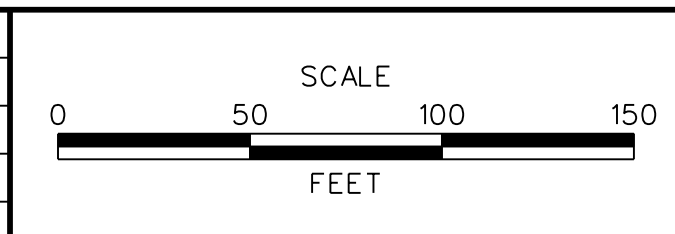
CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



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ADDENDUMS / REVISIONS	


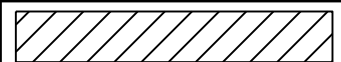



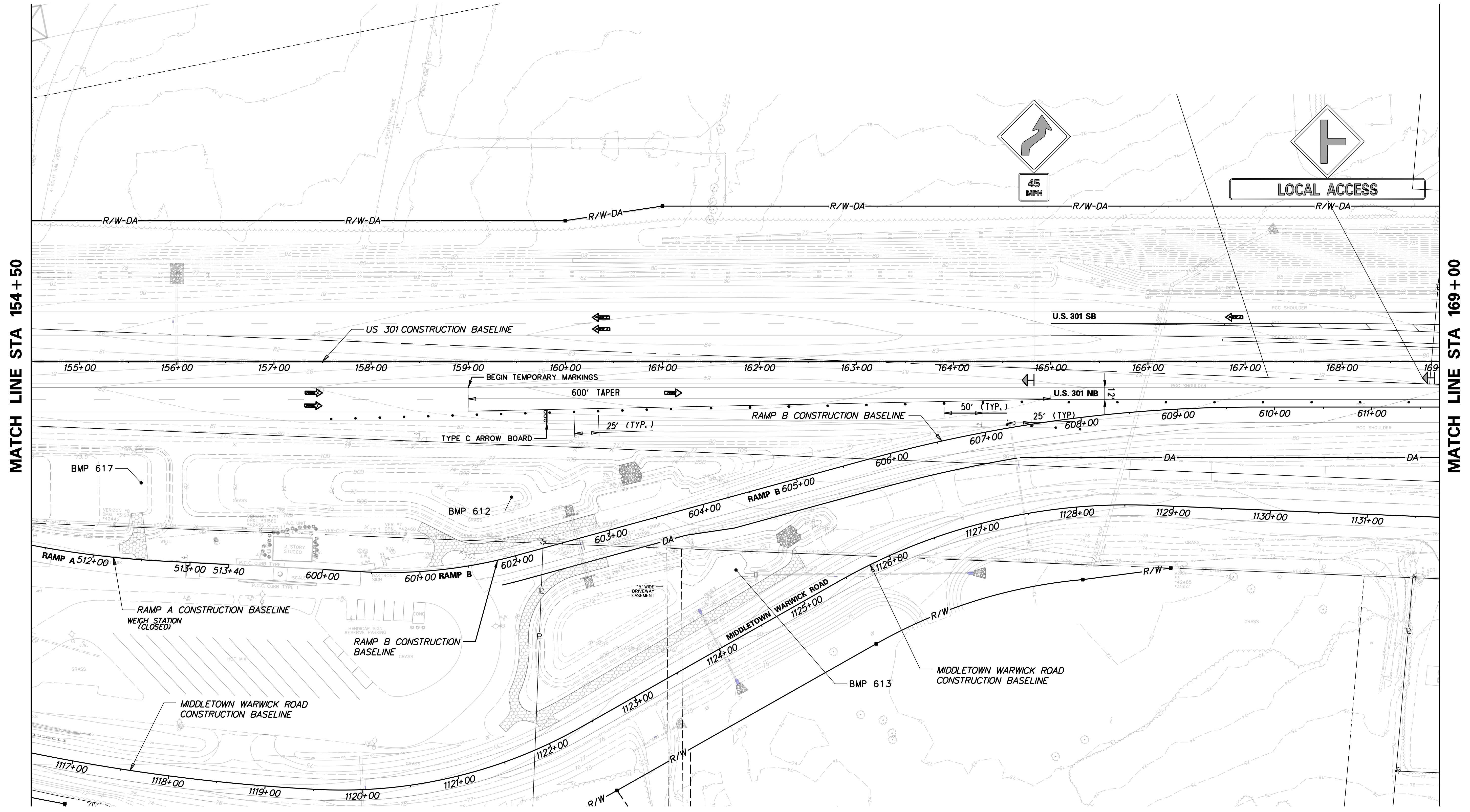
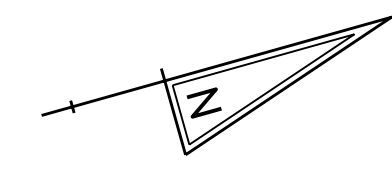
US 301 MARYLAND STATE LINE TO LEVELS ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - EXISTING CONDITION

MD-16
SHEET NO. 1128
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



MATCH LINE STA 154+50

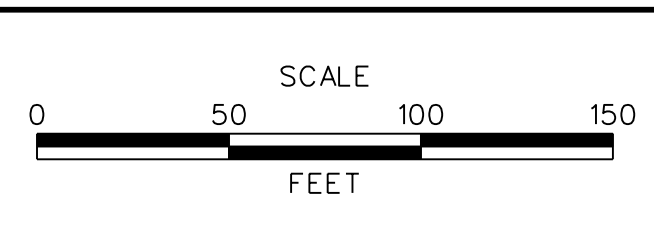
MATCH LINE STA 169+00

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	




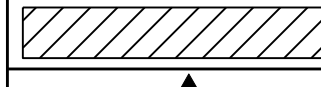

US 301
MARYLAND STATE LINE
TO LEVELS ROAD

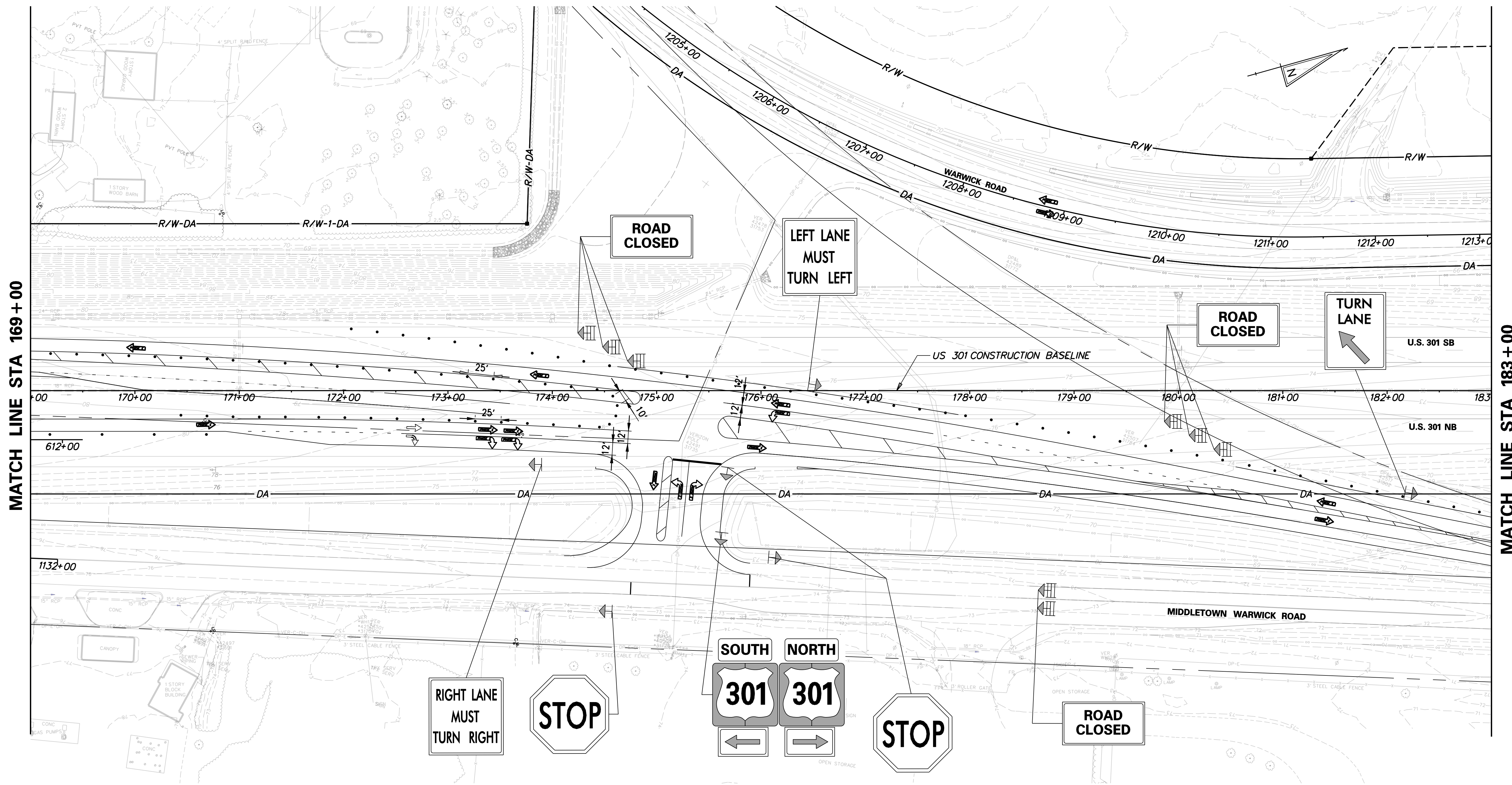
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN -
EXISTING CONDITION

MD-17
SHEET NO. 1129
TOTAL SHTS. 1256

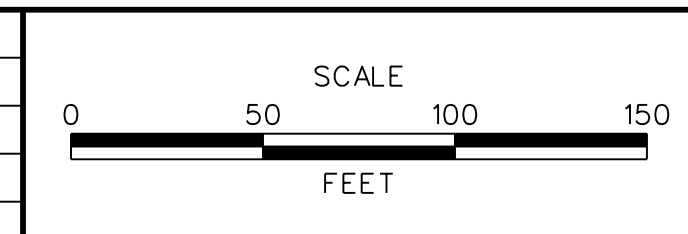
CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



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ADDENDUMS / REVISIONS	




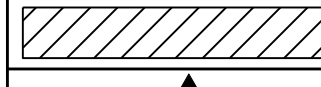

US 301 MARYLAND STATE LINE TO LEVELS ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

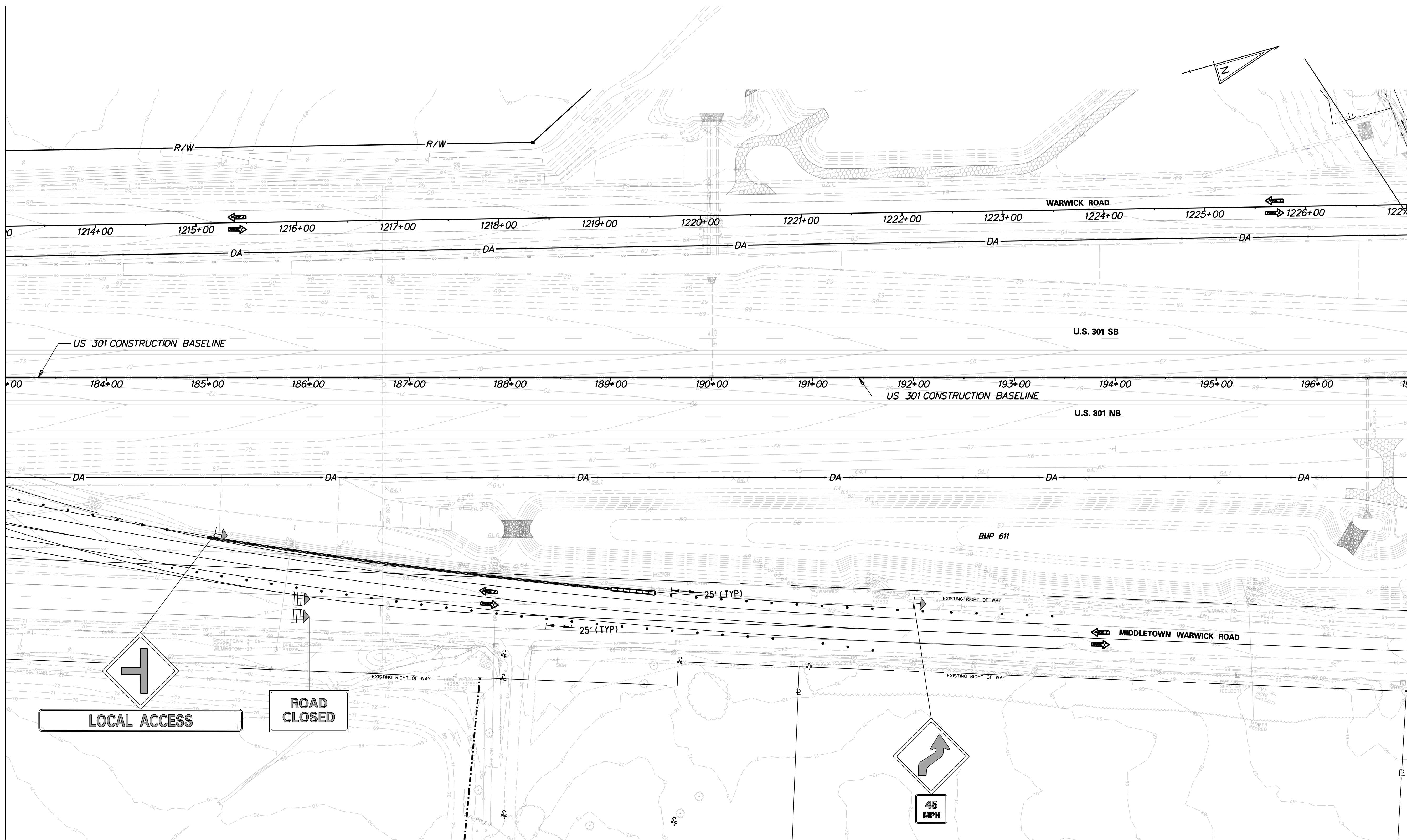
CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - EXISTING CONDITION

MD-18
SHEET NO. 1130
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

MATCH LINE STA 183+00

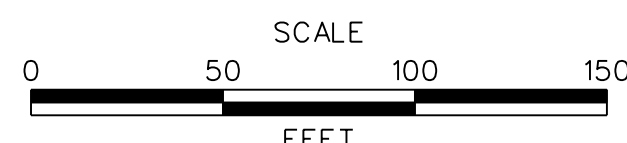


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**DELAWARE
DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS






**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

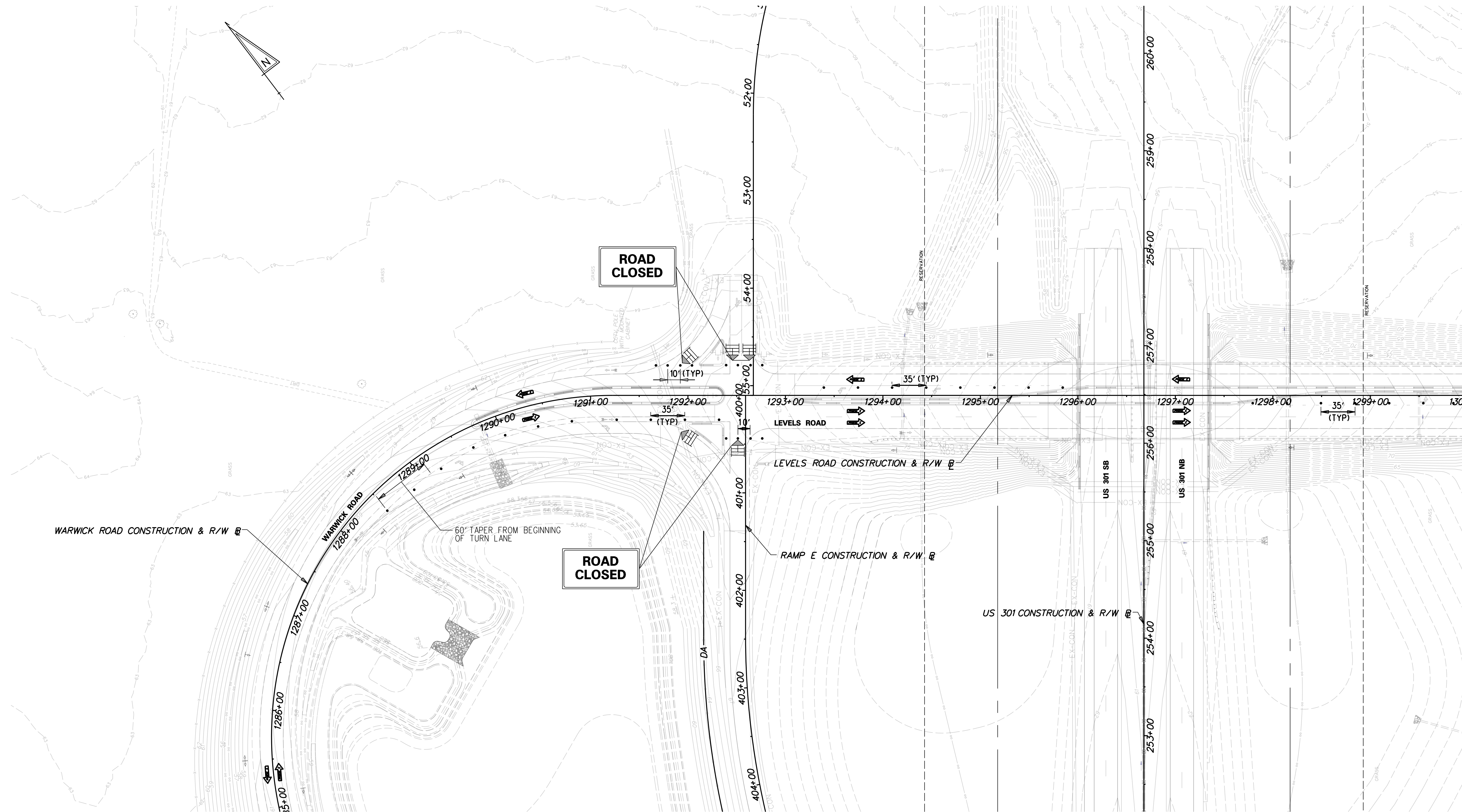
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN -
EXISTING CONDITION**

MD-19
SHEET NO. 1131
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

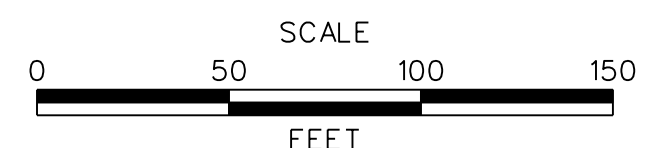


MATCH LINE STA 1300+00

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ADDENDUMS / REVISIONS	




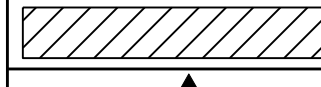

**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

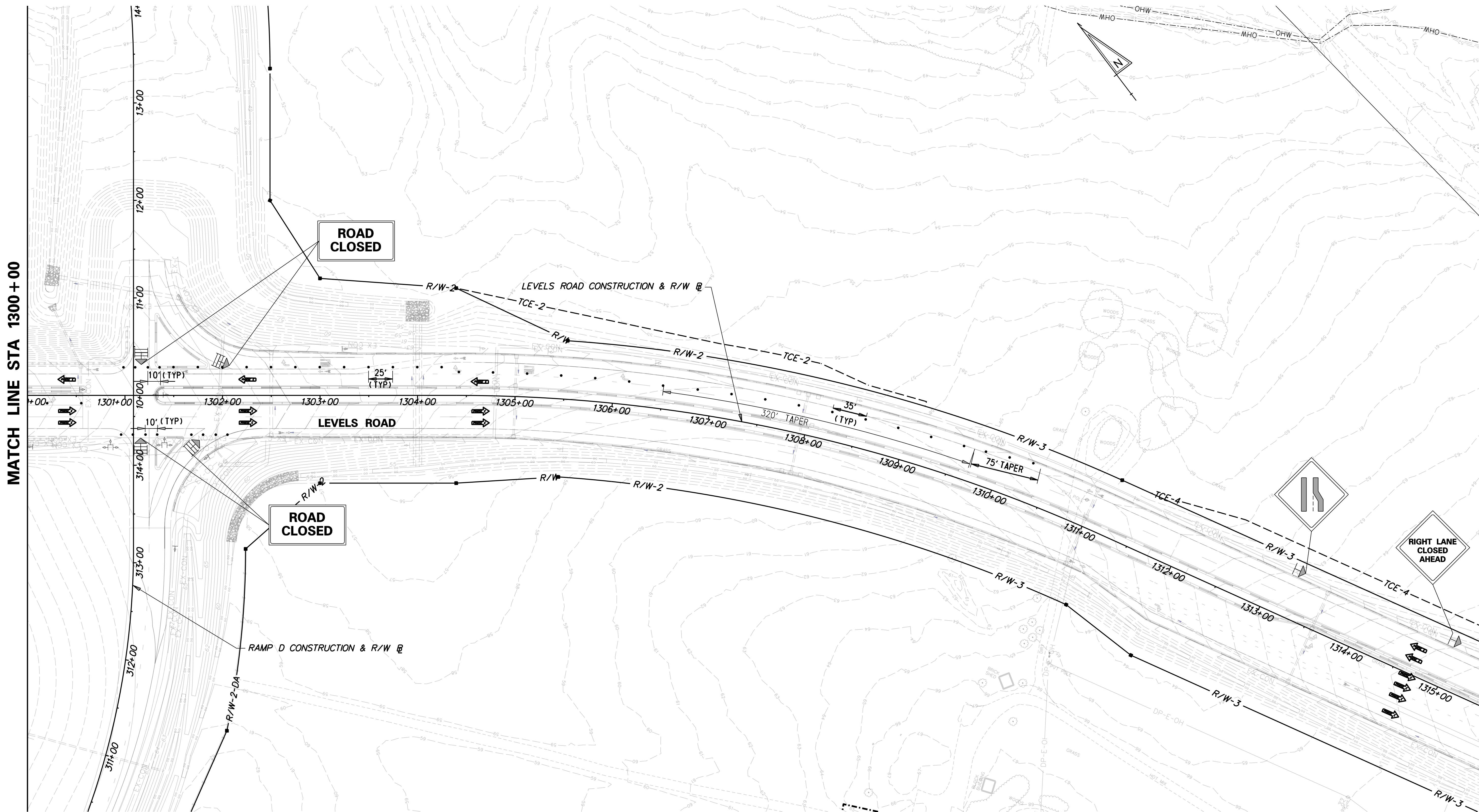
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN -
EXISTING CONDITION**

MD-20
SHEET NO. 1132
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

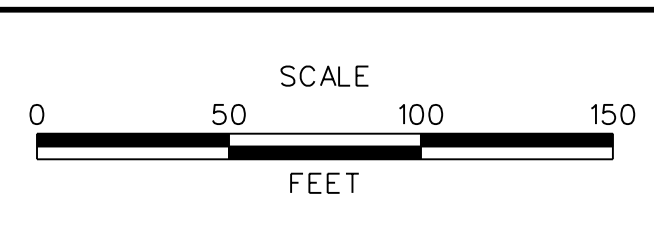


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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	






US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM CHECKED BY: SKH

CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN -
EXISTING CONDITION

MD-21
SHEET NO. 1133
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

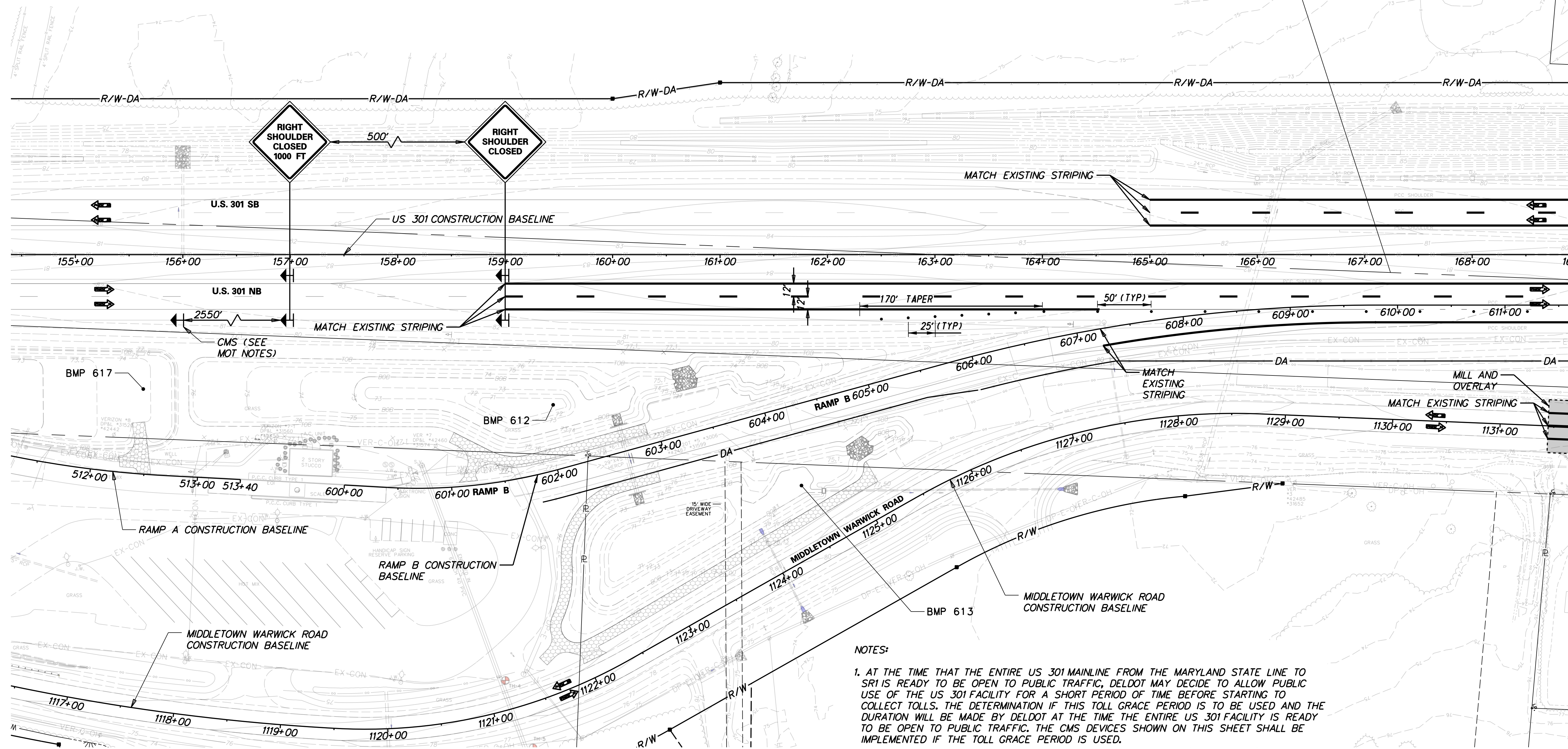
SEQUENCE OF CONSTRUCTION: PHASE 3A

OBJECTIVE: SWITCH TRAFFIC TO ULTIMATE LANE CONFIGURATION AND BEGIN REMOVAL OF NORTHBOUND TEMPORARY CROSSOVER.

1. INSTALL ALL TEMPORARY TRAFFIC CONTROL DEVICES AS SHOWN AND IMPLEMENT PHASE 3A TRAFFIC CONTROL SCHEME.
2. REMOVE ALL DEVICES BLOCKING ACCESS ONTO US 301 AT THE LEVELS ROAD INTERCHANGE.
3. INSPECT AND MAINTAIN ALL EXISTING EROSION AND SEDIMENT CONTROL FACILITIES AND FEATURES. THE ENGINEER MUST GRANT APPROVAL PRIOR TO THE REMOVAL OF ANY EROSION AND SEDIMENT CONTROL DEVICE.
4. INSTALL OR UNCOVER PERMANENT SIGNING AS SHOWN ON PROJECT PLANS.
5. ROUTE TRAFFIC ONTO US 301 SOUTHBOUND VIA LEVELS ROAD INTERCHANGE.
6. CLOSE THE NORTHBOUND TEMPORARY CROSSOVER. COORDINATE WITH NORTHERN TIE-IN OPENING.
7. INSTALL PERMANENT STRIPING AS SHOWN ON THE SIGNING, STRIPING & CONDUIT PLANS.
8. COMPLETE MILL AND OVERLAY OF MIDDLETOWN WARWICK ROAD.
9. INSTALL US 301 NORTHBOUND LANE CLOSURE DURING OFF-PEAK HOURS.
10. REMOVE TEMPORARY CROSSOVER WITHIN THE US 301 NORTHBOUND OUTSIDE SHOULDER AND TEMPORARY INTERSECTION AT WARWICK ROAD. REMOVE TEMPORARY DRAINAGE PIPES P-915 AND P-916. COMPLETE ROADSIDE GRADING FROM STATION 174+00 TO STATION 191+50. PRIORITIZE WORK TO OPEN RAMP B ONRAMP.

NOTE: UPON COMPLETION OR TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION.

CMS TO BE PLACED IN THE MEDIAN AND IN THE OUTSIDE SHOULDER OF US 301 NB AT STA 132+50 (SEE NOTE 1 BELOW)



MATCH LINE STA 169+00

NOTES:

1. AT THE TIME THAT THE ENTIRE US 301 MAINLINE FROM THE MARYLAND STATE LINE TO SRI IS READY TO BE OPEN TO PUBLIC TRAFFIC, DELDOT MAY DECIDE TO ALLOW PUBLIC USE OF THE US 301 FACILITY FOR A SHORT PERIOD OF TIME BEFORE STARTING TO COLLECT TOLLS. THE DETERMINATION IF THIS TOLL GRACE PERIOD IS TO BE USED AND THE DURATION WILL BE MADE BY DELDOT AT THE TIME THE ENTIRE US 301 FACILITY IS READY TO BE OPEN TO PUBLIC TRAFFIC. THE CMS DEVICES SHOWN ON THIS SHEET SHALL BE IMPLEMENTED IF THE TOLL GRACE PERIOD IS USED.

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ADDENDUMS / REVISIONS	




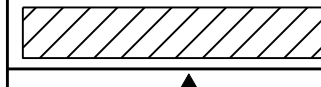

**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

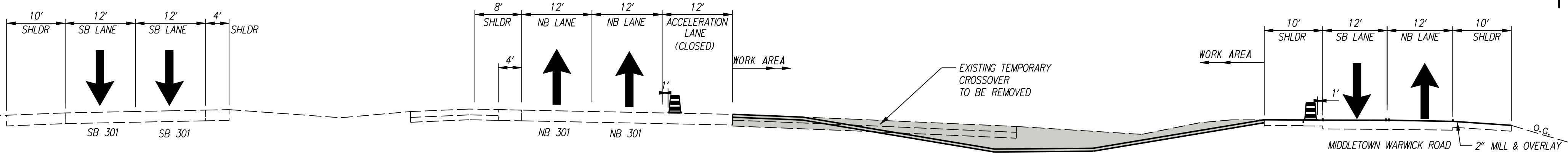
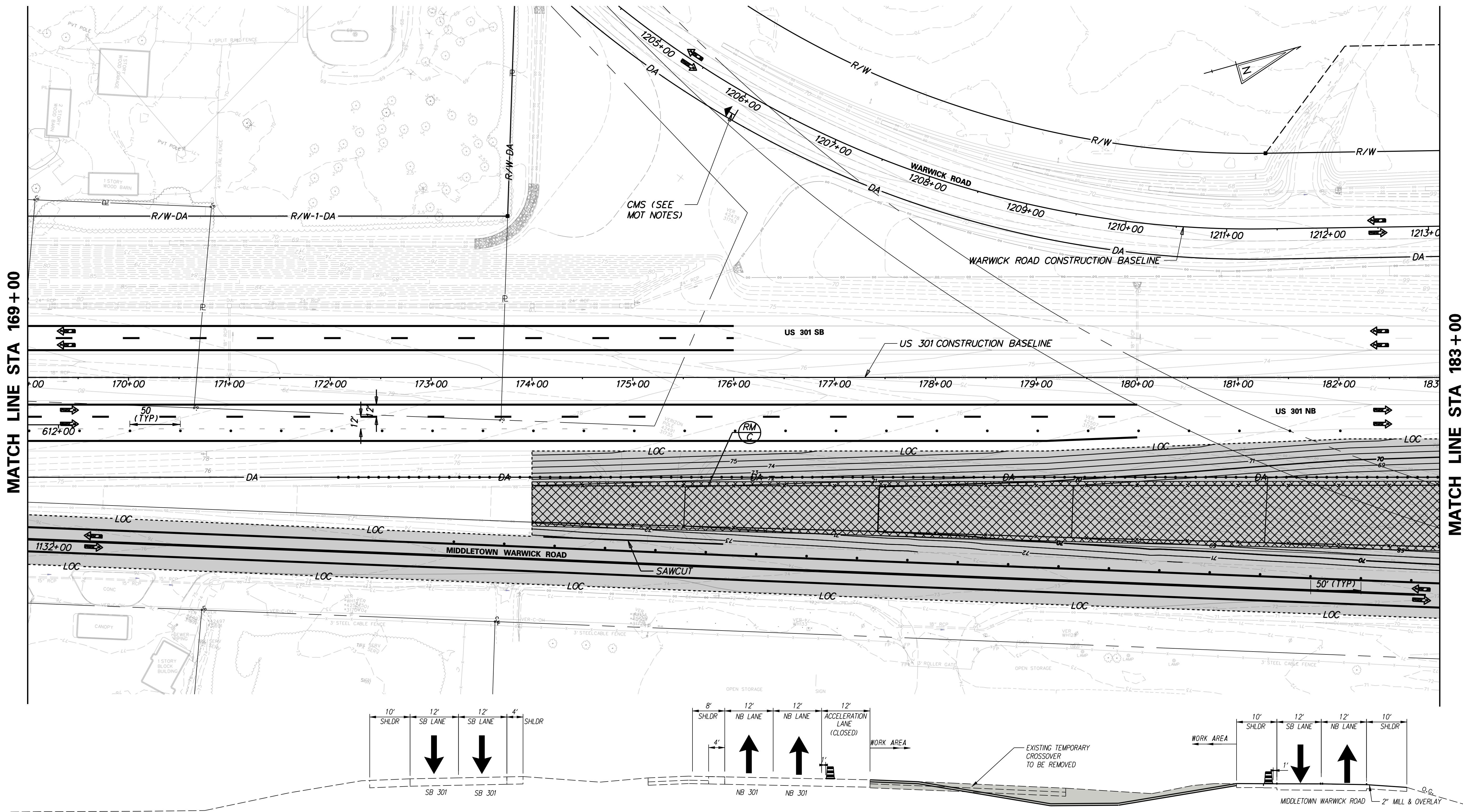
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3A**

MD-22
SHEET NO. 1134
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

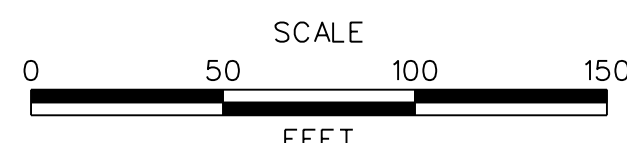


US 301 MOT TYPICAL SECTION
STATION 174+00 TO STATION 187+00

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ADDENDUMS / REVISIONS




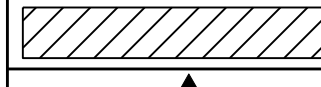

US 301
MARYLAND STATE LINE
TO LEVELS ROAD

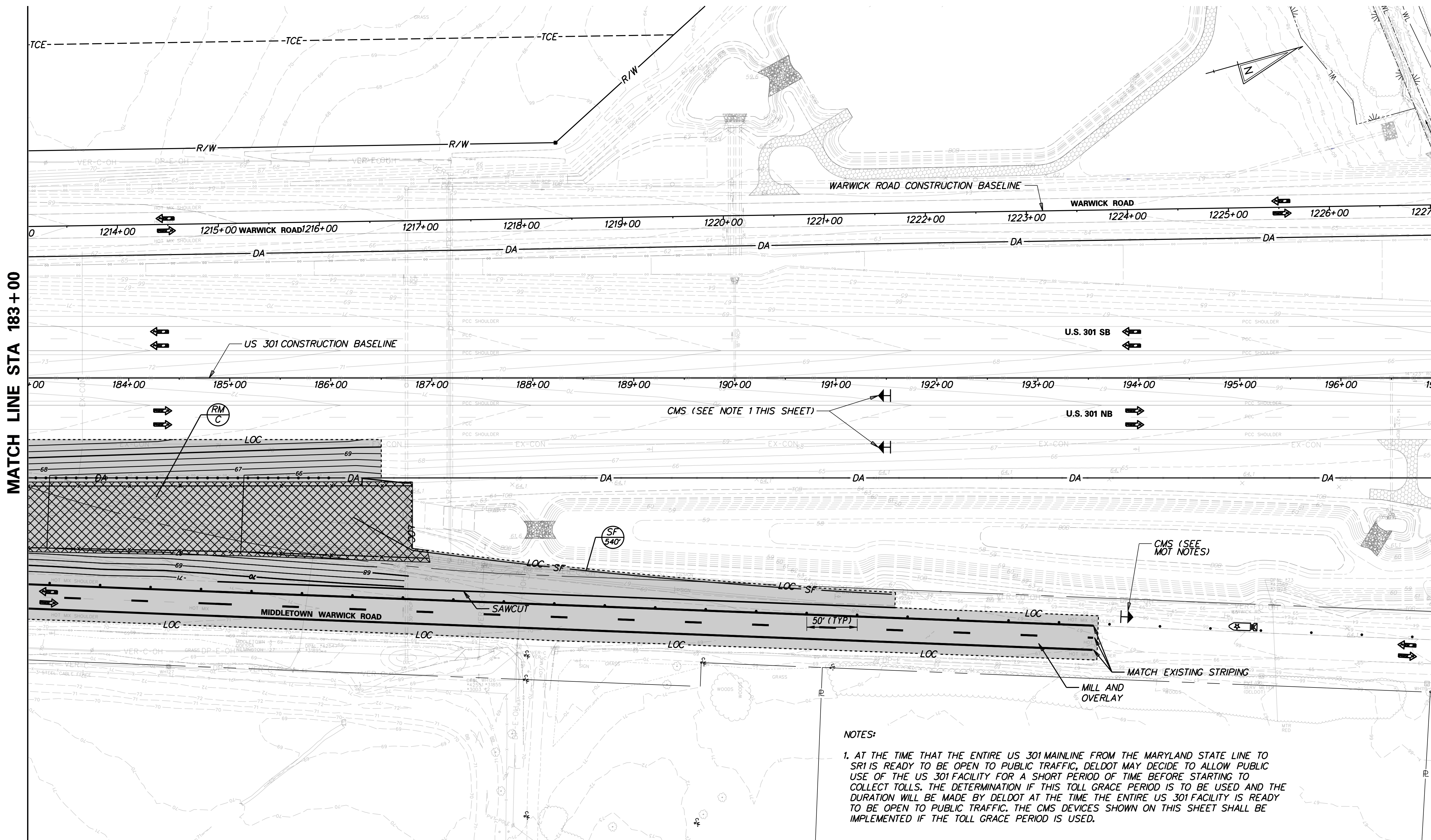
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3A

MD-23
SHEET NO.
1135
TOTAL SHTS.
1256

CONSTRUCTION PHASING LEGEND

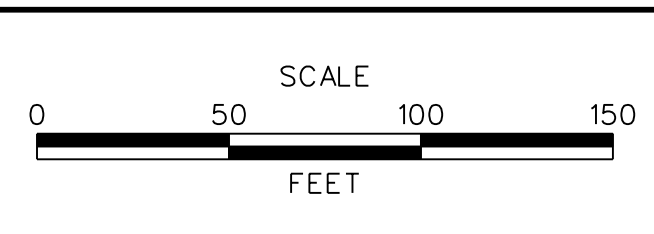
	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



NOTES:
 1. AT THE TIME THAT THE ENTIRE US 301 MAINLINE FROM THE MARYLAND STATE LINE TO SRI IS READY TO BE OPEN TO PUBLIC TRAFFIC, DELDOT MAY DECIDE TO ALLOW PUBLIC USE OF THE US 301 FACILITY FOR A SHORT PERIOD OF TIME BEFORE STARTING TO COLLECT TOLLS. THE DETERMINATION IF THIS TOLL GRACE PERIOD IS TO BE USED AND THE DURATION WILL BE MADE BY DELDOT AT THE TIME THE ENTIRE US 301 FACILITY IS READY TO BE OPEN TO PUBLIC TRAFFIC. THE CMS DEVICES SHOWN ON THIS SHEET SHALL BE IMPLEMENTED IF THE TOLL GRACE PERIOD IS USED.

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ADDENDUMS / REVISIONS	




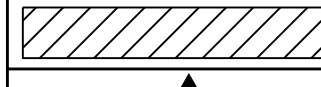

US 301 MARYLAND STATE LINE TO LEVELS ROAD

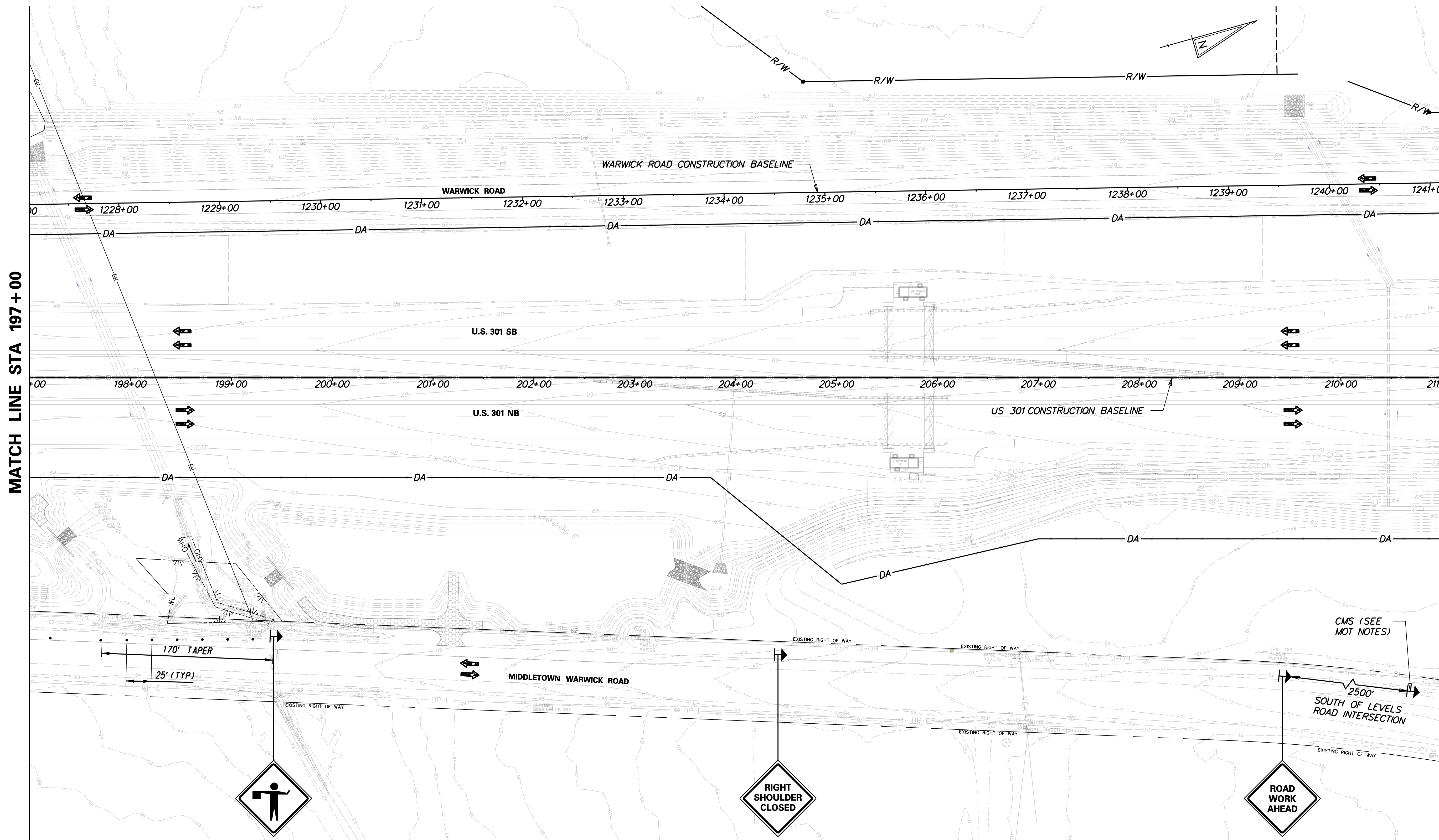
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 3A

MD-24
SHEET NO.
1136
TOTAL SHTS.
1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



MATCH LINE STA 197 + 00

MATCH LINE STA 211 + 00

170' TAPER
25' (TYP)

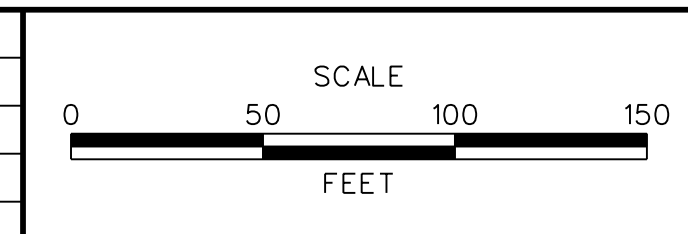
CMS (SEE
NOT NOTES)
2500'
SOUTH OF LEVELS
ROAD INTERSECTION



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**DELAWARE
DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS	




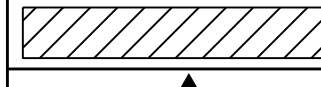

**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

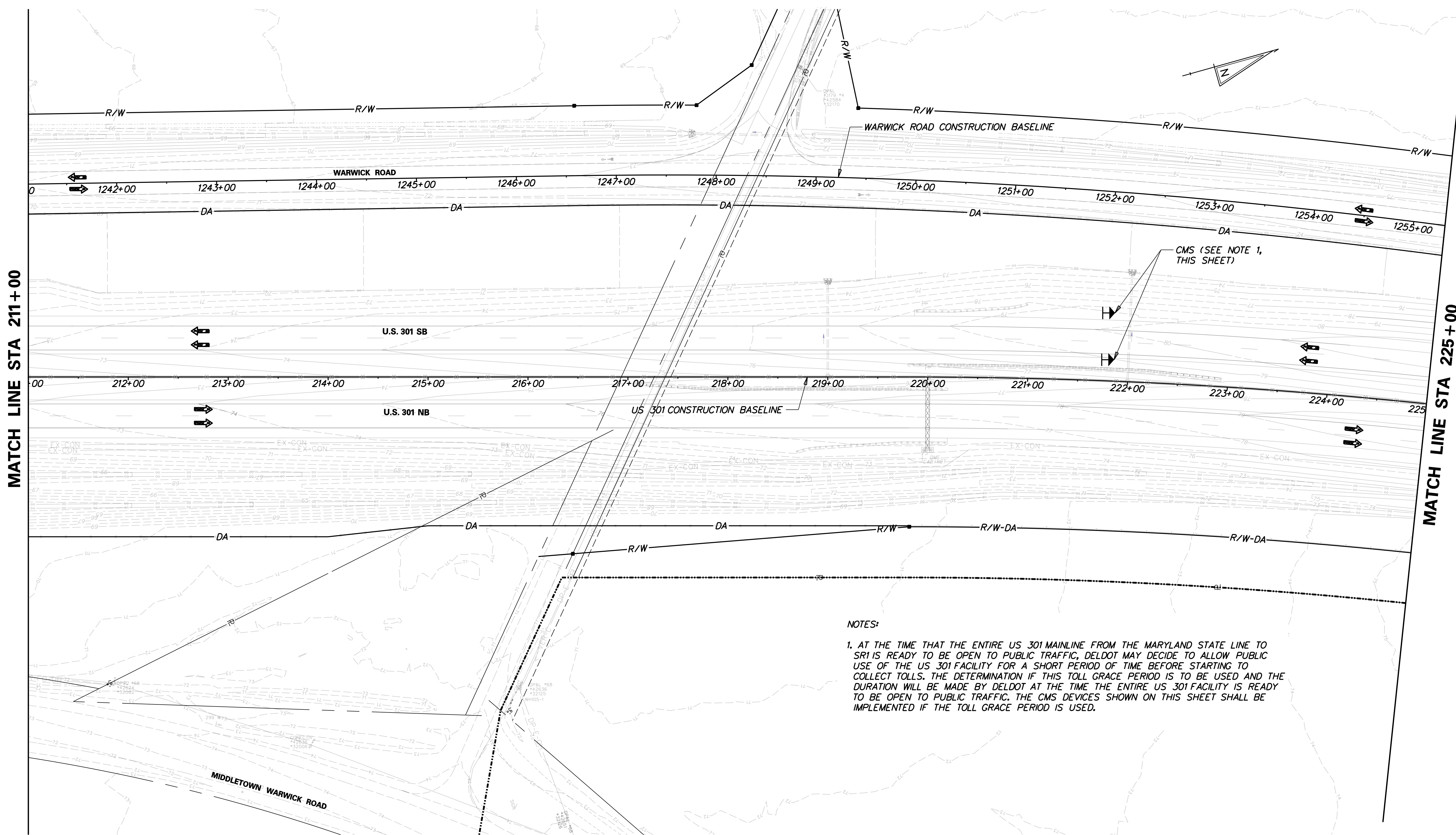
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3A**

MD-25
SHEET NO. 1137
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



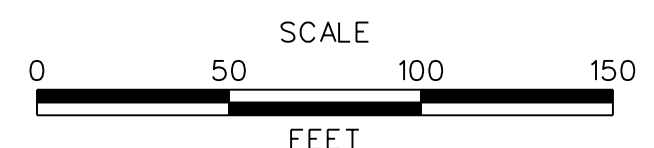
NOTES:

1. AT THE TIME THAT THE ENTIRE US 301 MAINLINE FROM THE MARYLAND STATE LINE TO SR1 IS READY TO BE OPEN TO PUBLIC TRAFFIC, DELDOT MAY DECIDE TO ALLOW PUBLIC USE OF THE US 301 FACILITY FOR A SHORT PERIOD OF TIME BEFORE STARTING TO COLLECT TOLLS. THE DETERMINATION IF THIS TOLL GRACE PERIOD IS TO BE USED AND THE DURATION WILL BE MADE BY DELDOT AT THE TIME THE ENTIRE US 301 FACILITY IS READY TO BE OPEN TO PUBLIC TRAFFIC. THE CMS DEVICES SHOWN ON THIS SHEET SHALL BE IMPLEMENTED IF THE TOLL GRACE PERIOD IS USED.

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ADDENDUMS / REVISIONS	




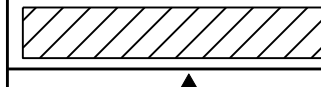

**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

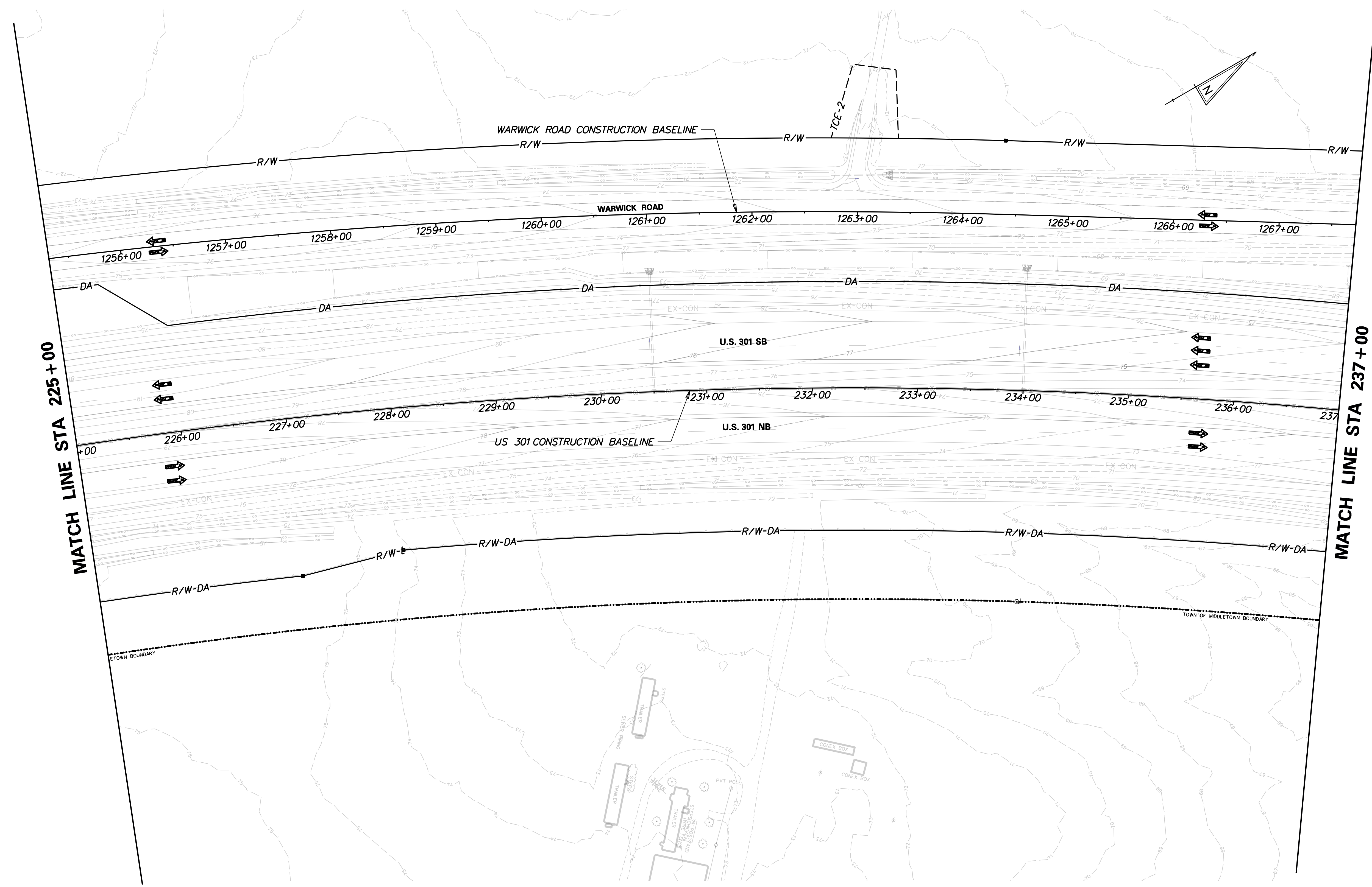
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3A**

MD-26
SHEET NO. 1138
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

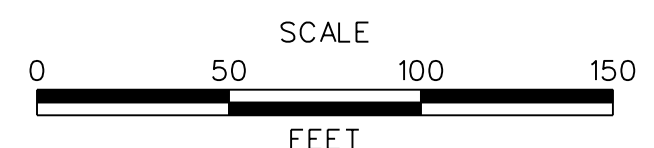
	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



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ADDENDUMS / REVISIONS	




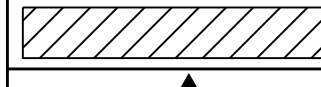

**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

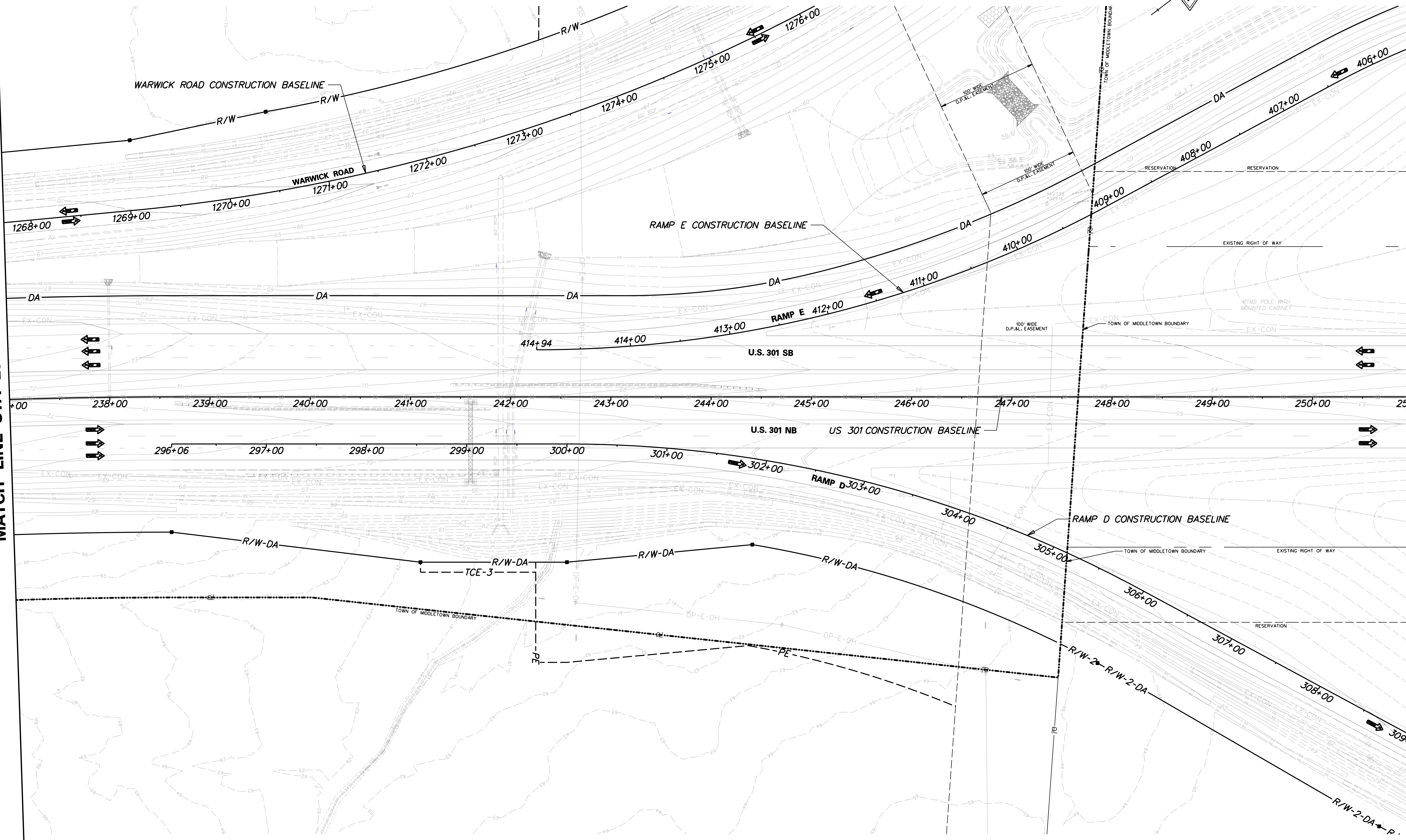
**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3A**

MD-27
SHEET NO. 1139
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

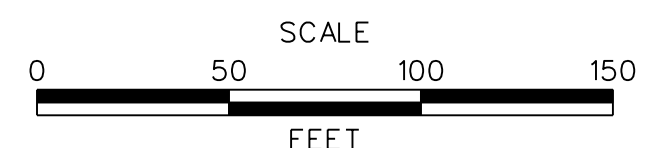
MATCH LINE STA 237+00



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ADDENDUMS / REVISIONS	






**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3A**

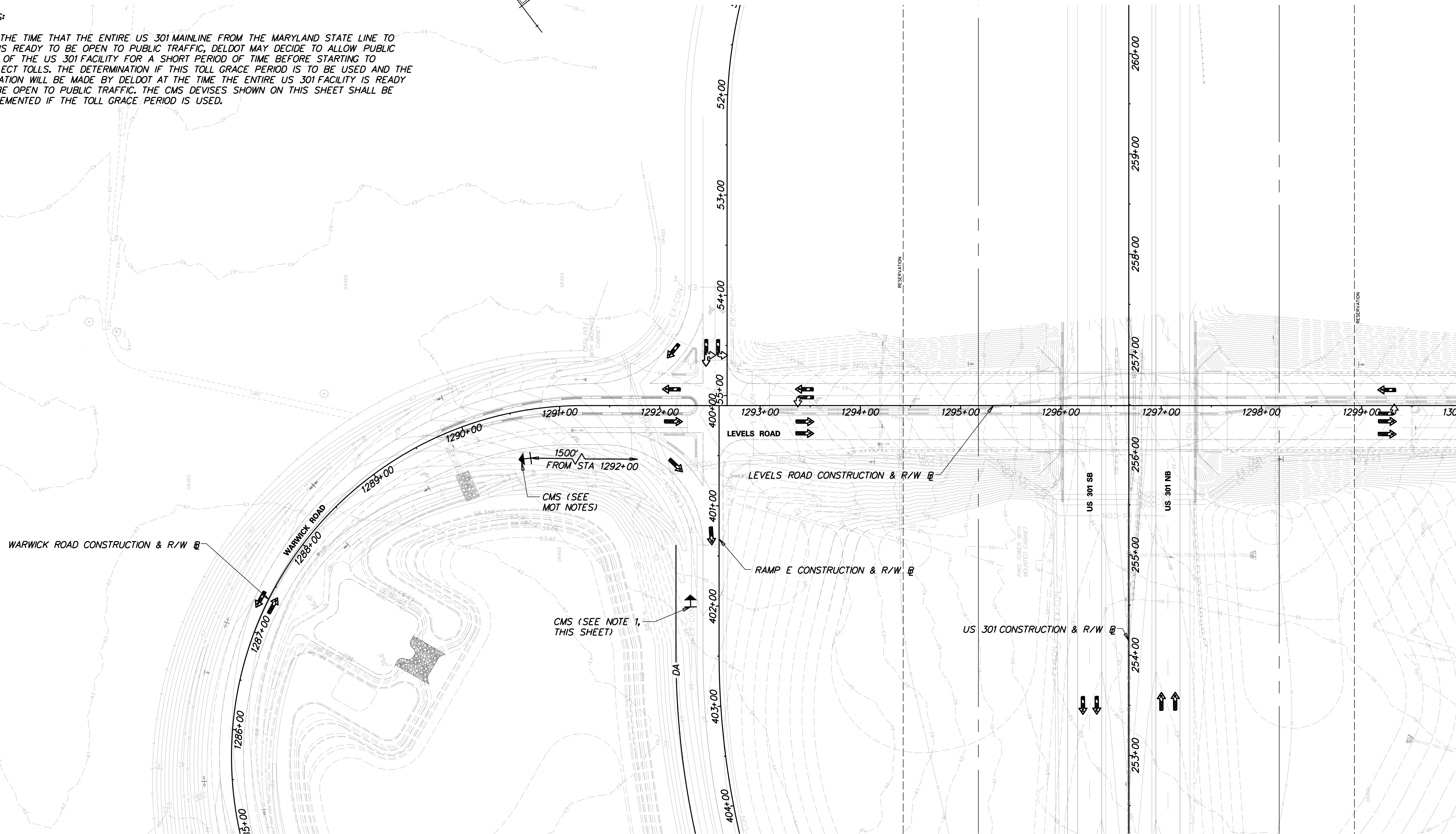
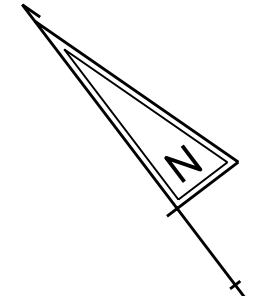
MD-28
SHEET NO. 1140
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

NOTES:

1. AT THE TIME THAT THE ENTIRE US 301 MAINLINE FROM THE MARYLAND STATE LINE TO SRI IS READY TO BE OPEN TO PUBLIC TRAFFIC, DELDOT MAY DECIDE TO ALLOW PUBLIC USE OF THE US 301 FACILITY FOR A SHORT PERIOD OF TIME BEFORE STARTING TO COLLECT TOLLS. THE DETERMINATION IF THIS TOLL GRACE PERIOD IS TO BE USED AND THE DURATION WILL BE MADE BY DELDOT AT THE TIME THE ENTIRE US 301 FACILITY IS READY TO BE OPEN TO PUBLIC TRAFFIC. THE CMS DEVICES SHOWN ON THIS SHEET SHALL BE IMPLEMENTED IF THE TOLL GRACE PERIOD IS USED.



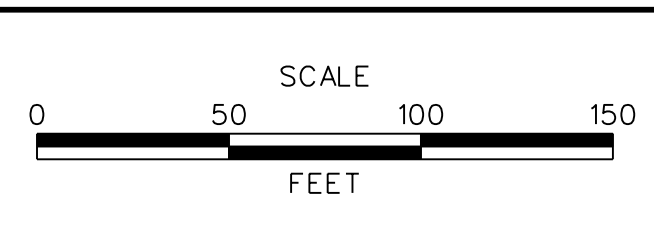
MATCH LINE STA 1300+00

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	




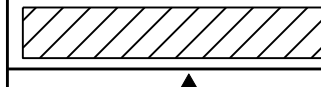

US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

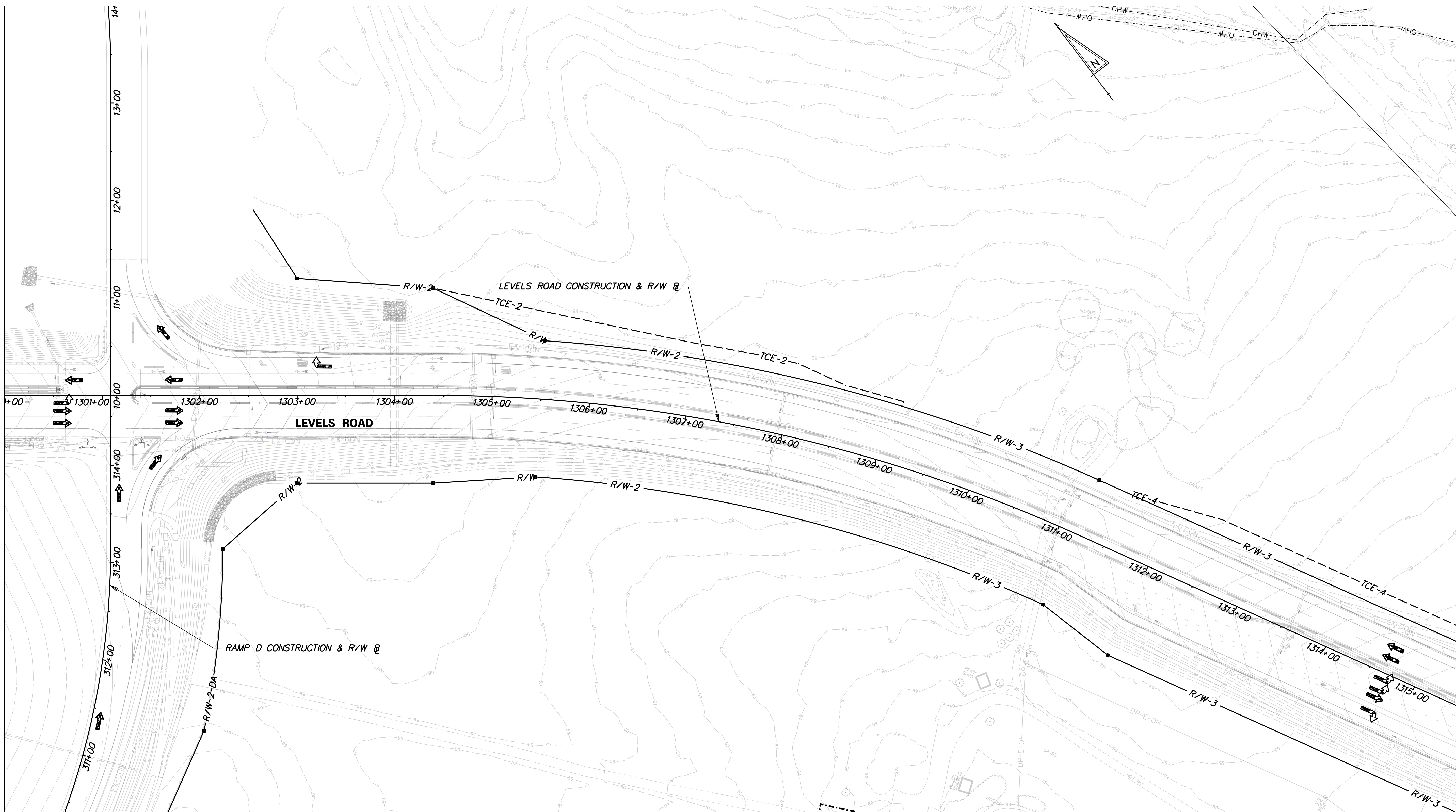
CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3A

MD-29
SHEET NO.
1141
TOTAL SHTS.
1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

MATCH LINE STA 1300+00

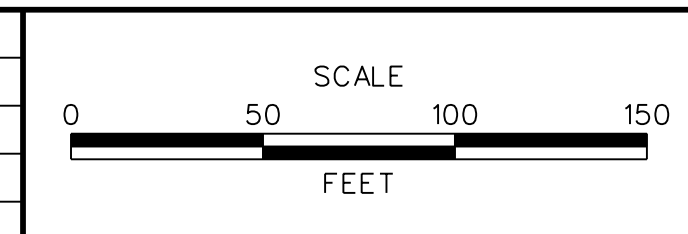


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**DELAWARE
DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM CHECKED BY: SKH

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3A**

MD-30	SHEET NO. 1142
	TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

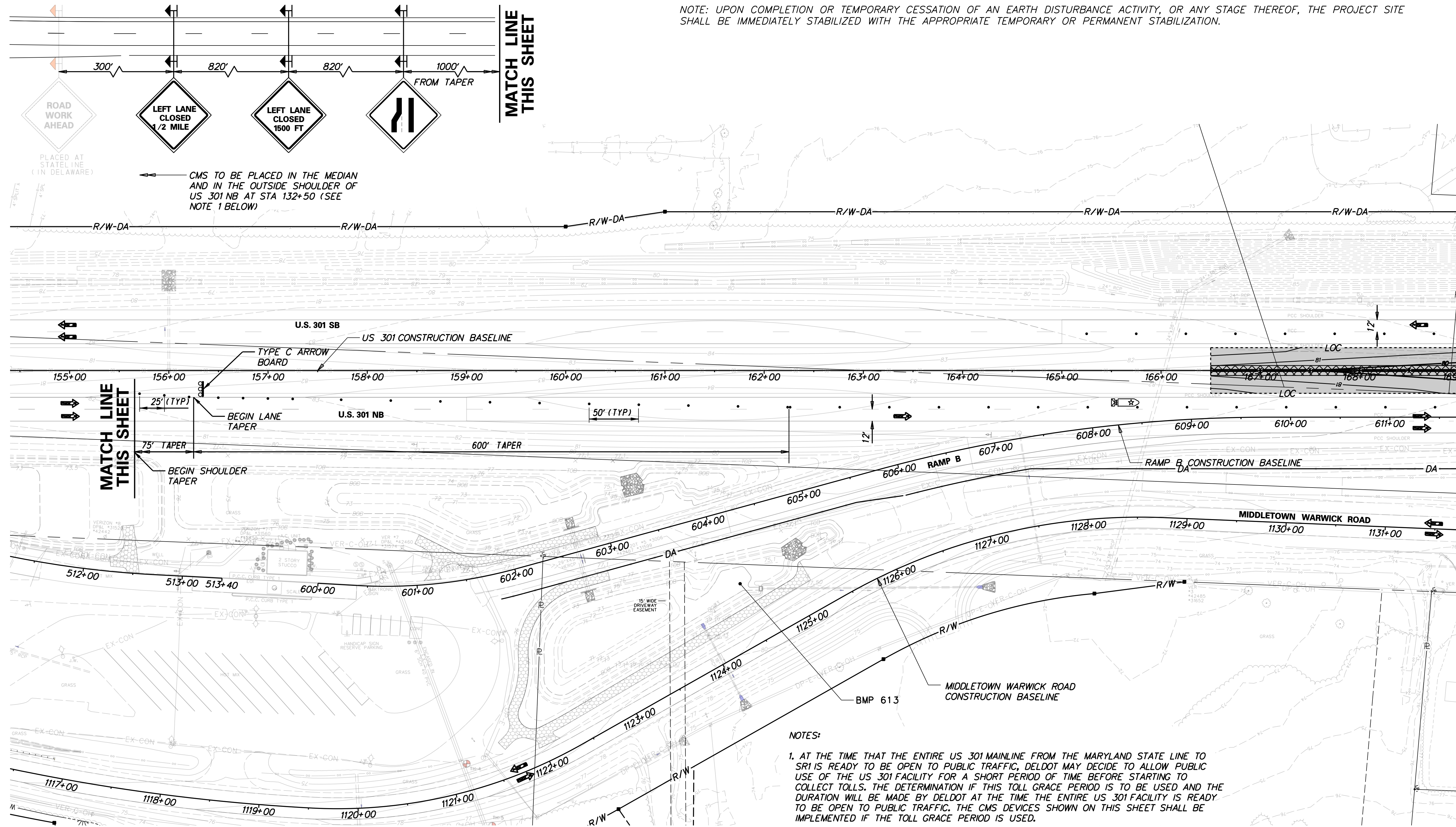
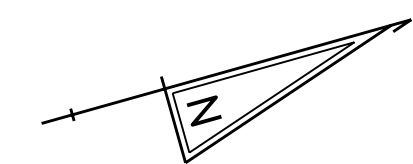
	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

SEQUENCE OF CONSTRUCTION: PHASE 3B

OBJECTIVE: COMPLETE TEMPORARY CROSSOVER REMOVAL AND MEDIAN RESTORATION.

1. INSTALL ALL TEMPORARY TRAFFIC CONTROL DEVICES AS SHOWN AND IMPLEMENT PHASE 3B TRAFFIC CONTROL SCHEME.
2. INSPECT AND MAINTAIN ALL EXISTING EROSION AND SEDIMENT CONTROL FACILITIES AND FEATURES. THE ENGINEER MUST GRANT APPROVAL PRIOR TO THE REMOVAL OF ANY EROSION AND SEDIMENT CONTROL DEVICE.
3. INSTALL LANE CLOSURES DURING OFF-PEAK HOURS.
4. REMOVE TEMPORARY CROSSOVER WITHIN THE MEDIAN.
5. REMOVE TEMPORARY PIPE AND CONVERT EXISTING JUNCTION BOX TO CATCH BASIN AT STATION 171+00. COMPLETE ROADSIDE GRADING.

NOTE: UPON COMPLETION OR TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION.

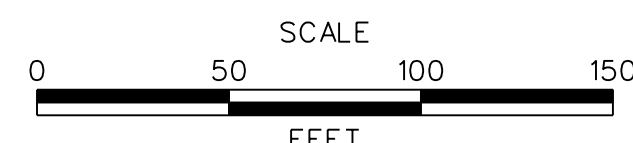


MATCH LINE STA 169+00

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ADDENDUMS / REVISIONS




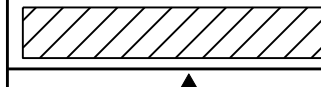

**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

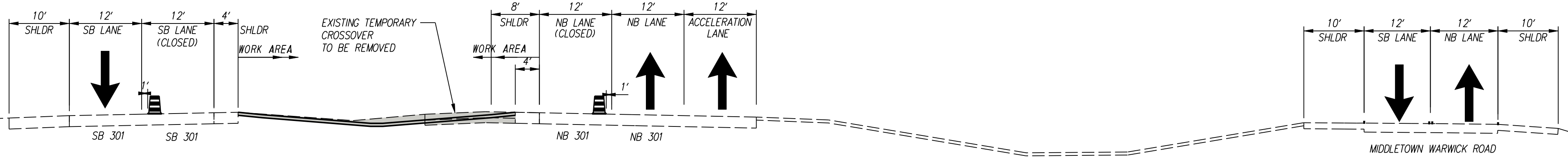
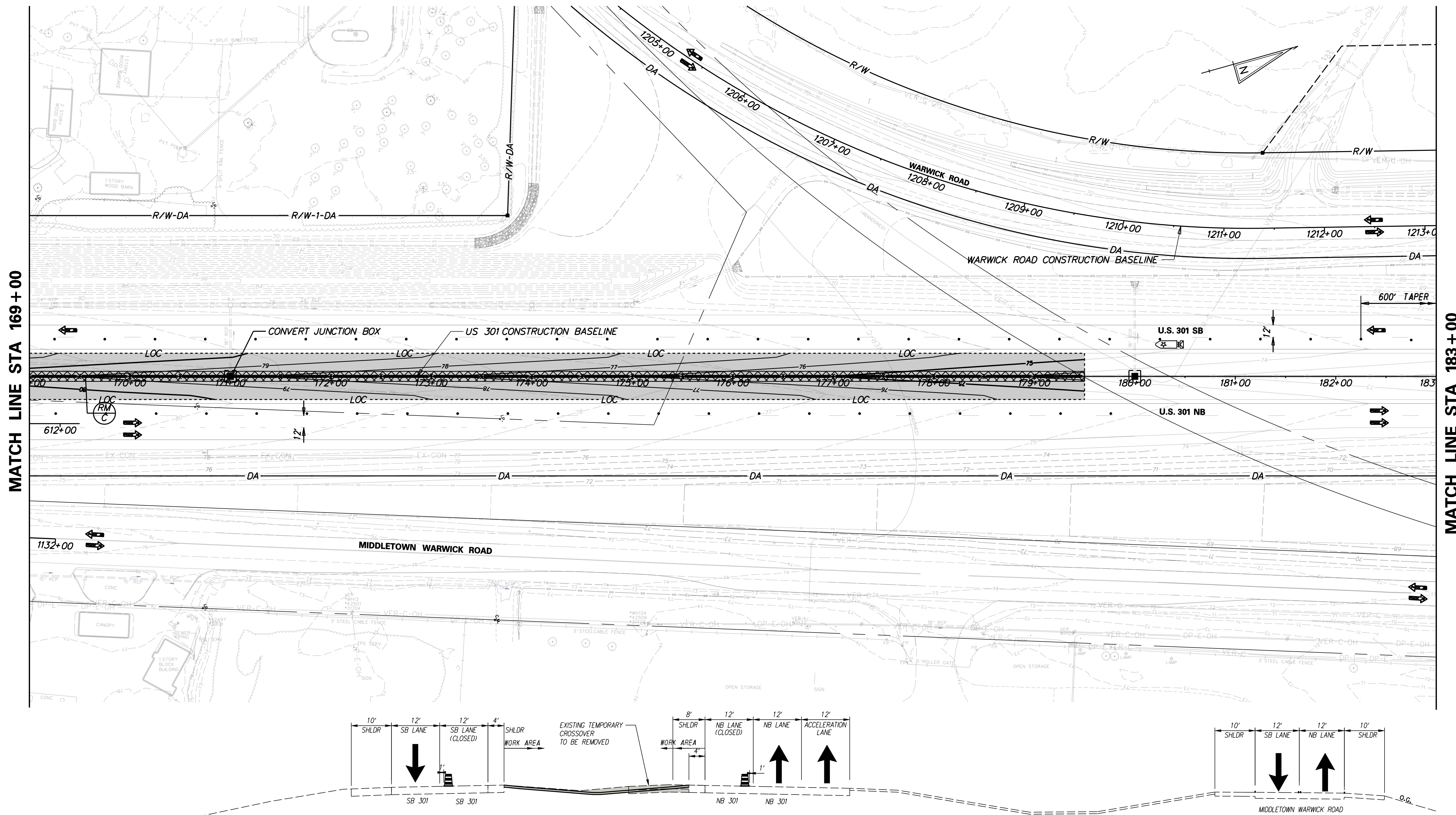
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3B**

MD-31
SHEET NO.
1143
TOTAL SHTS.
1256

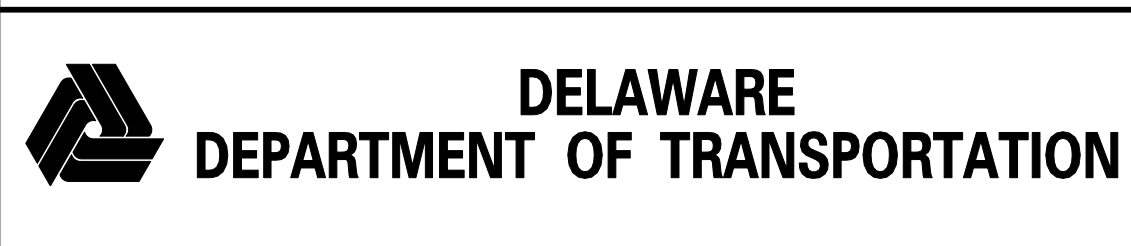
CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

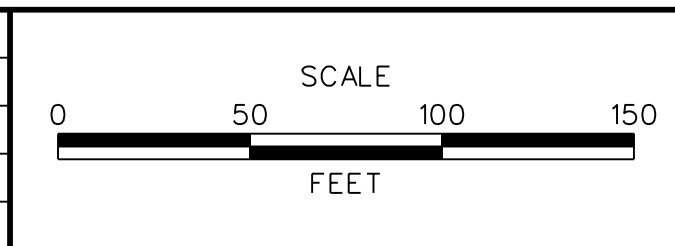


**US 301 MOT TYPICAL SECTION
STATION 166+50 TO STATION 179+50**

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ADDENDUMS / REVISIONS	




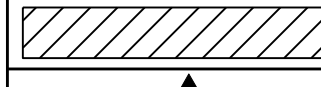

**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

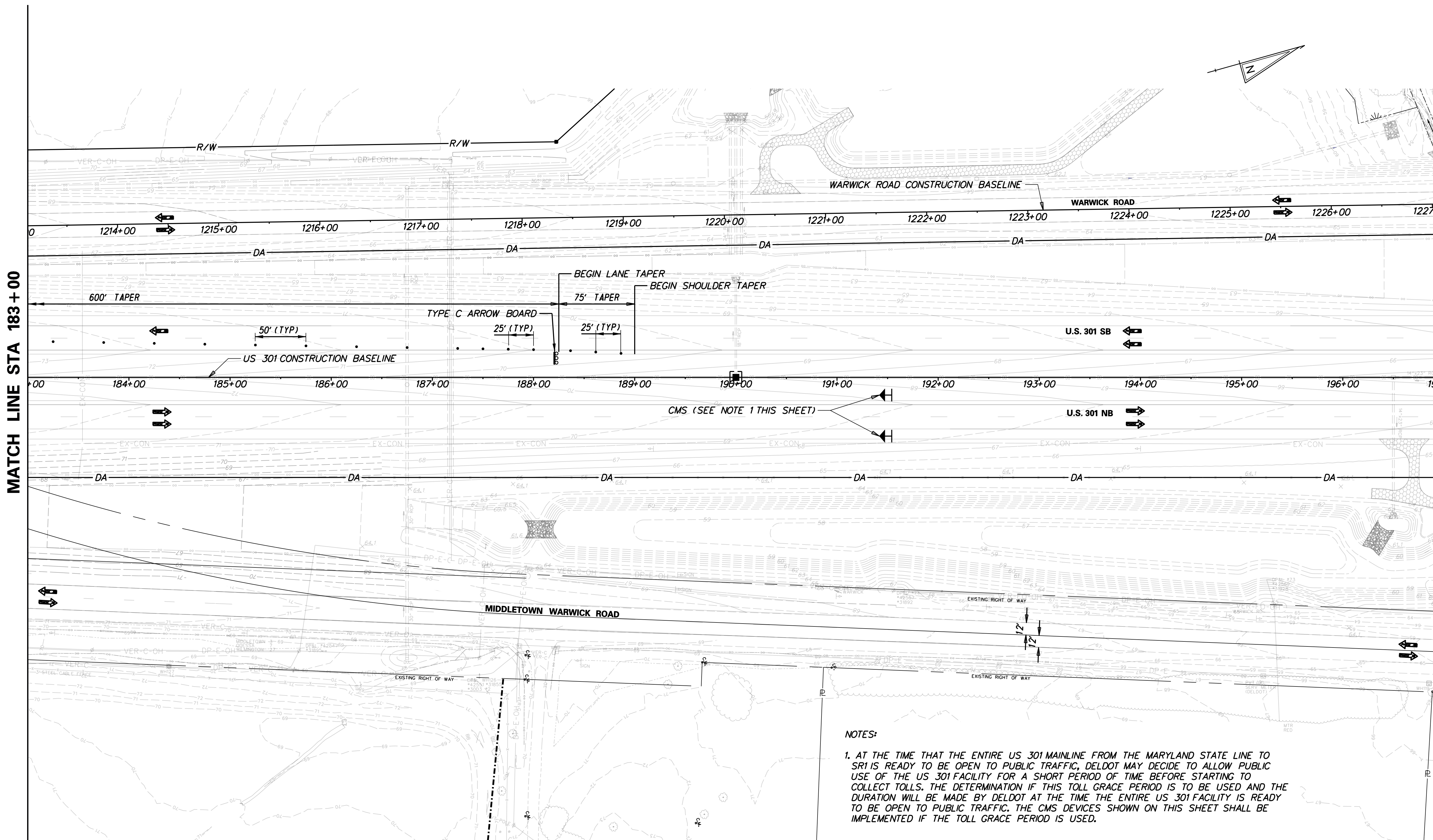
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3B**

MD-32
SHEET NO. 1144
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



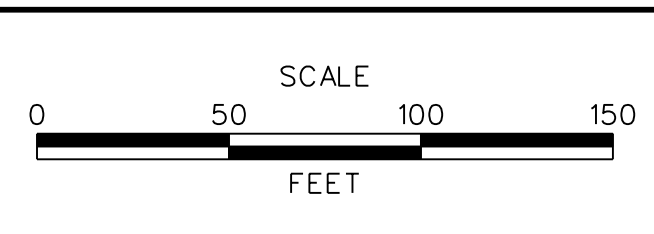
NOTES:

1. AT THE TIME THAT THE ENTIRE US 301 MAINLINE FROM THE MARYLAND STATE LINE TO SRI IS READY TO BE OPEN TO PUBLIC TRAFFIC, DELDOT MAY DECIDE TO ALLOW PUBLIC USE OF THE US 301 FACILITY FOR A SHORT PERIOD OF TIME BEFORE STARTING TO COLLECT TOLLS. THE DETERMINATION IF THIS TOLL GRACE PERIOD IS TO BE USED AND THE DURATION WILL BE MADE BY DELDOT AT THE TIME THE ENTIRE US 301 FACILITY IS READY TO BE OPEN TO PUBLIC TRAFFIC. THE CMS DEVICES SHOWN ON THIS SHEET SHALL BE IMPLEMENTED IF THE TOLL GRACE PERIOD IS USED.

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ADDENDUMS / REVISIONS	




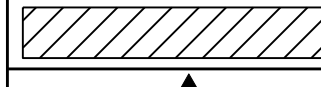

US 301 MARYLAND STATE LINE TO LEVELS ROAD

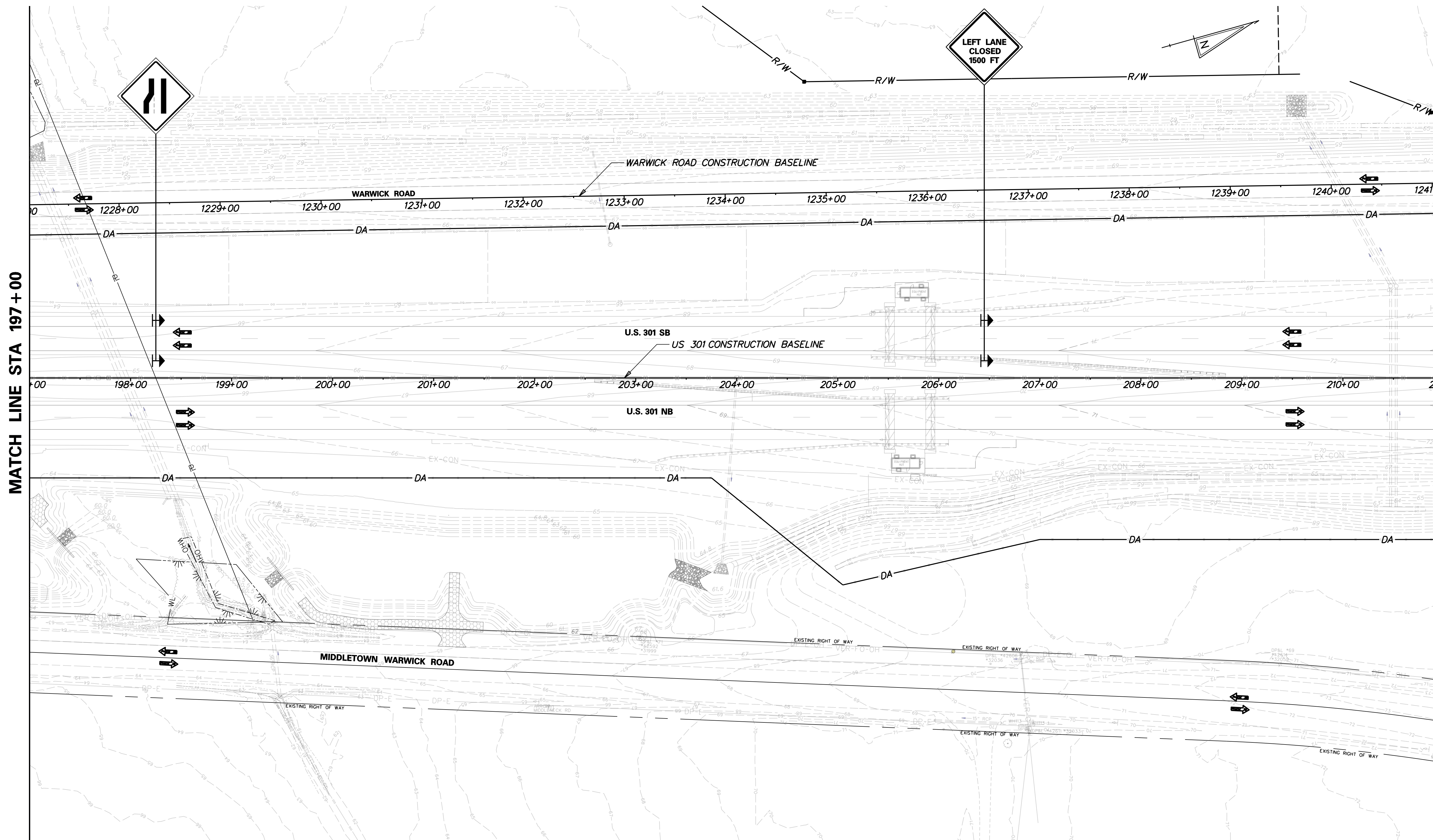
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 3B

MD-33
SHEET NO.
1145
TOTAL SHTS.
1256

CONSTRUCTION PHASING LEGEND


	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



MATCH LINE STA 197 + 00

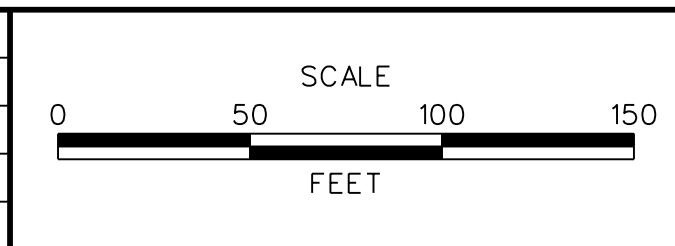
MATCH LINE STA 211 + 00

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**DELAWARE
DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS	




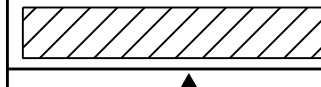

**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

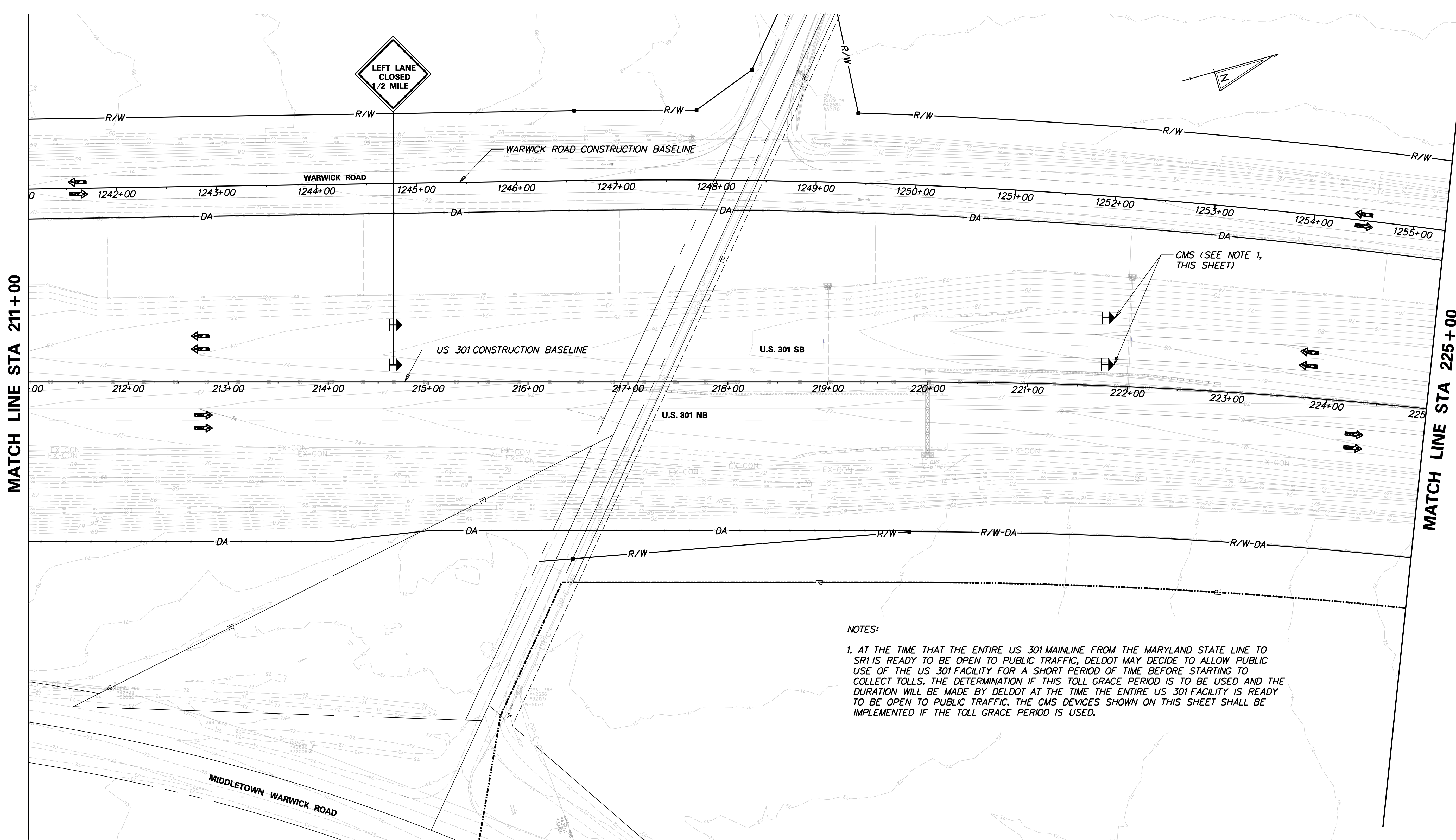
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3B**

MD-34
SHEET NO. 1146
TOTAL SHTS. 126

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



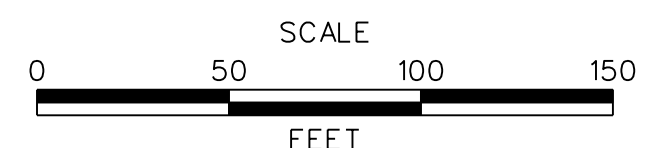
NOTES:

1. AT THE TIME THAT THE ENTIRE US 301 MAINLINE FROM THE MARYLAND STATE LINE TO SR1 IS READY TO BE OPEN TO PUBLIC TRAFFIC, DELDOT MAY DECIDE TO ALLOW PUBLIC USE OF THE US 301 FACILITY FOR A SHORT PERIOD OF TIME BEFORE STARTING TO COLLECT TOLLS. THE DETERMINATION IF THIS TOLL GRACE PERIOD IS TO BE USED AND THE DURATION WILL BE MADE BY DELDOT AT THE TIME THE ENTIRE US 301 FACILITY IS READY TO BE OPEN TO PUBLIC TRAFFIC. THE CMS DEVICES SHOWN ON THIS SHEET SHALL BE IMPLEMENTED IF THE TOLL GRACE PERIOD IS USED.

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ADDENDUMS / REVISIONS	






**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

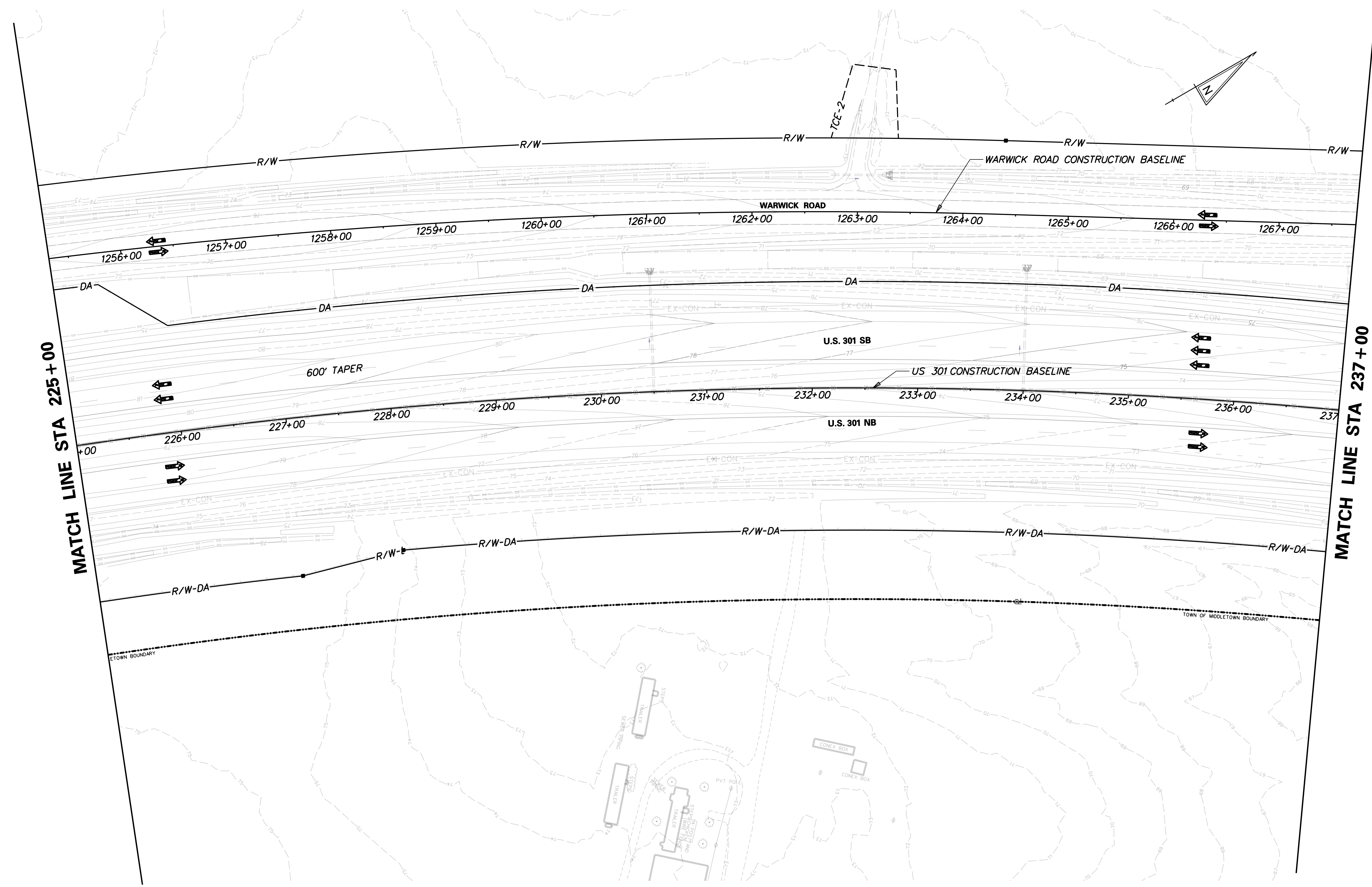
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3B**

MD-35
SHEET NO.
1147
TOTAL SHTS.
1256

CONSTRUCTION PHASING LEGEND

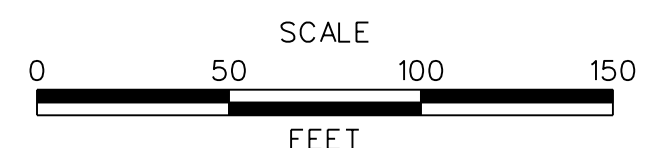
	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



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ADDENDUMS / REVISIONS	




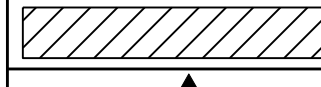

**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

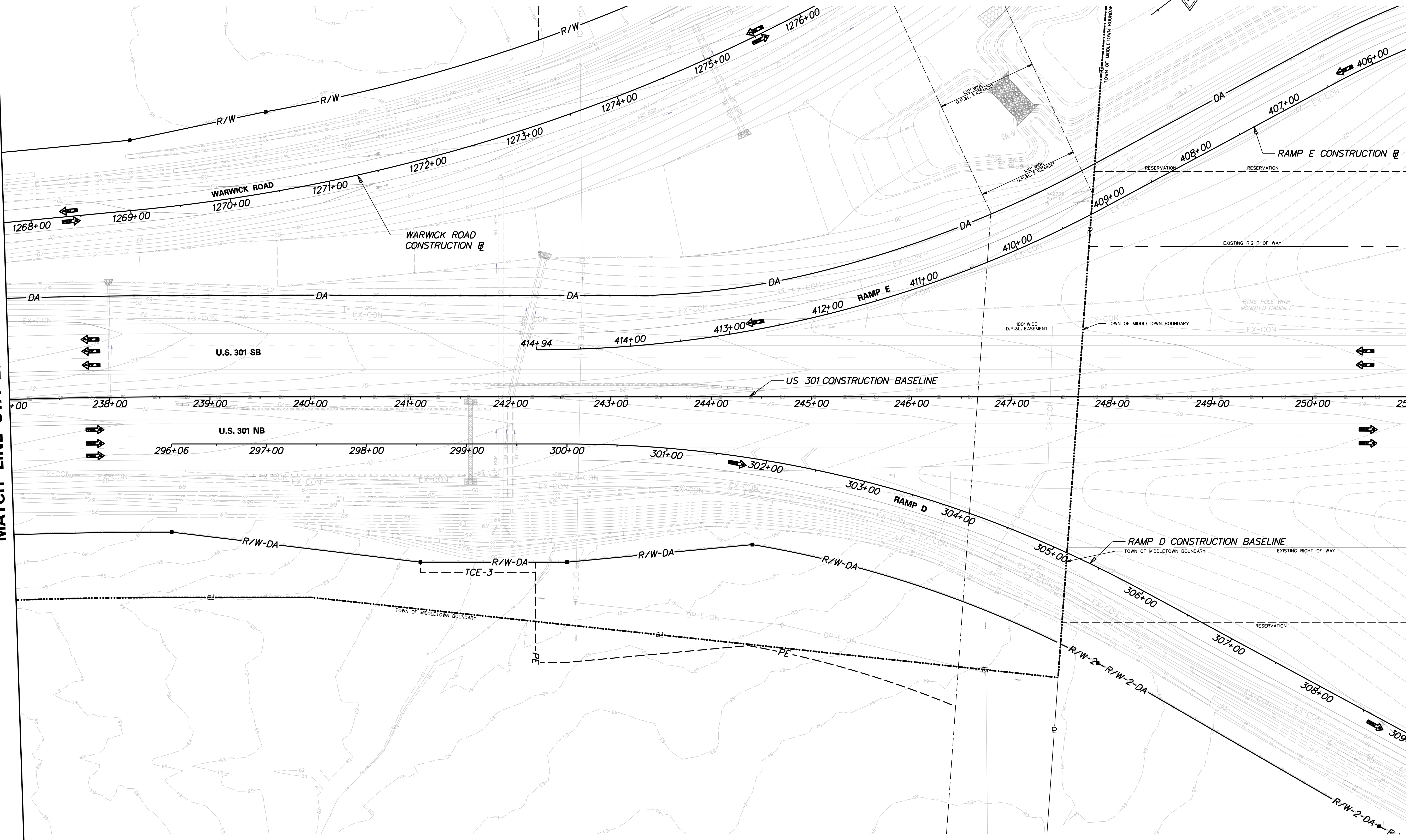
**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3B**

MD-36
SHEET NO. 1148
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

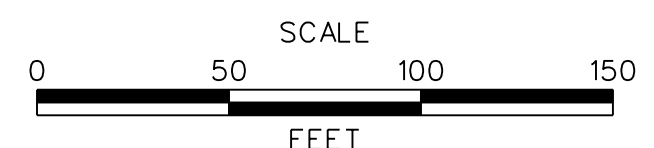
MATCH LINE STA 237+00



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ADDENDUMS / REVISIONS	






**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3B**

MD-37
SHEET NO. 1149
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

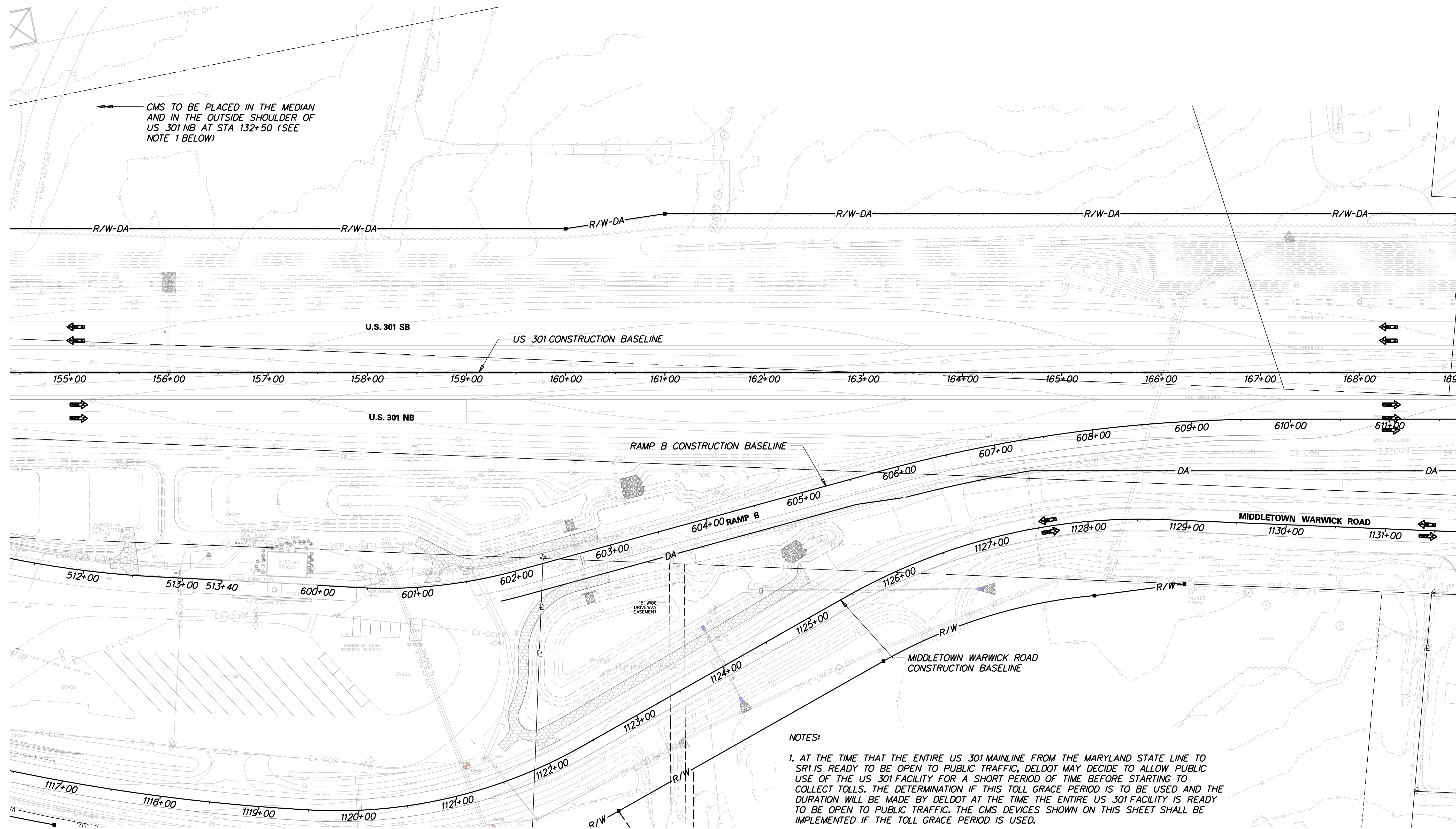
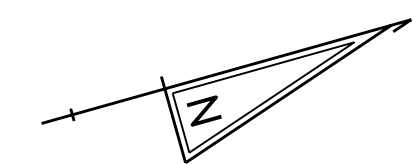
	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

SEQUENCE OF CONSTRUCTION: PHASE 3C

OBJECTIVE: MAINTAIN TRAFFIC THROUGH E-ZPASS LANES FOR DURATION OF TOLL GRACE PERIOD

1. INSTALL ALL TRAFFIC CONTROL DEVICES AS SHOWN AND IMPLEMENT PHASE 3C TRAFFIC CONTROL SCHEME.
2. INSPECT AND MAINTAIN ALL EXISTING EROSION AND SEDIMENT CONTROL FACILITIES AND FEATURES. THE ENGINEER MUST GRANT APPROVAL PRIOR TO THE REMOVAL OF ANY EROSION AND SEDIMENT CONTROL DEVICE.

NOTE: UPON COMPLETION OR TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION.



CMS TO BE PLACED IN THE MEDIAN AND IN THE OUTSIDE SHOULDER OF US 301 NB AT STA 132+50 (SEE NOTE 1 BELOW)

MATCH LINE STA 169+00

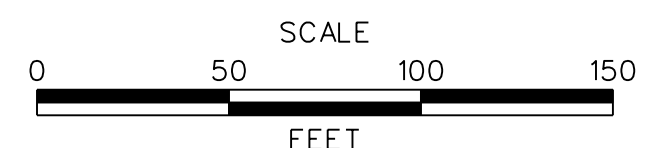
NOTES:

1. AT THE TIME THAT THE ENTIRE US 301 MAINLINE FROM THE MARYLAND STATE LINE TO SR1 IS READY TO BE OPEN TO PUBLIC TRAFFIC, DELDOT MAY DECIDE TO ALLOW PUBLIC USE OF THE US 301 FACILITY FOR A SHORT PERIOD OF TIME BEFORE STARTING TO COLLECT TOLLS. THE DETERMINATION IF THIS TOLL GRACE PERIOD IS TO BE USED AND THE DURATION WILL BE MADE BY DELDOT AT THE TIME THE ENTIRE US 301 FACILITY IS READY TO BE OPEN TO PUBLIC TRAFFIC. THE CMS DEVICES SHOWN ON THIS SHEET SHALL BE IMPLEMENTED IF THE TOLL GRACE PERIOD IS USED.

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ADDENDUMS / REVISIONS	




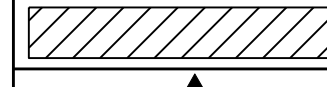

**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

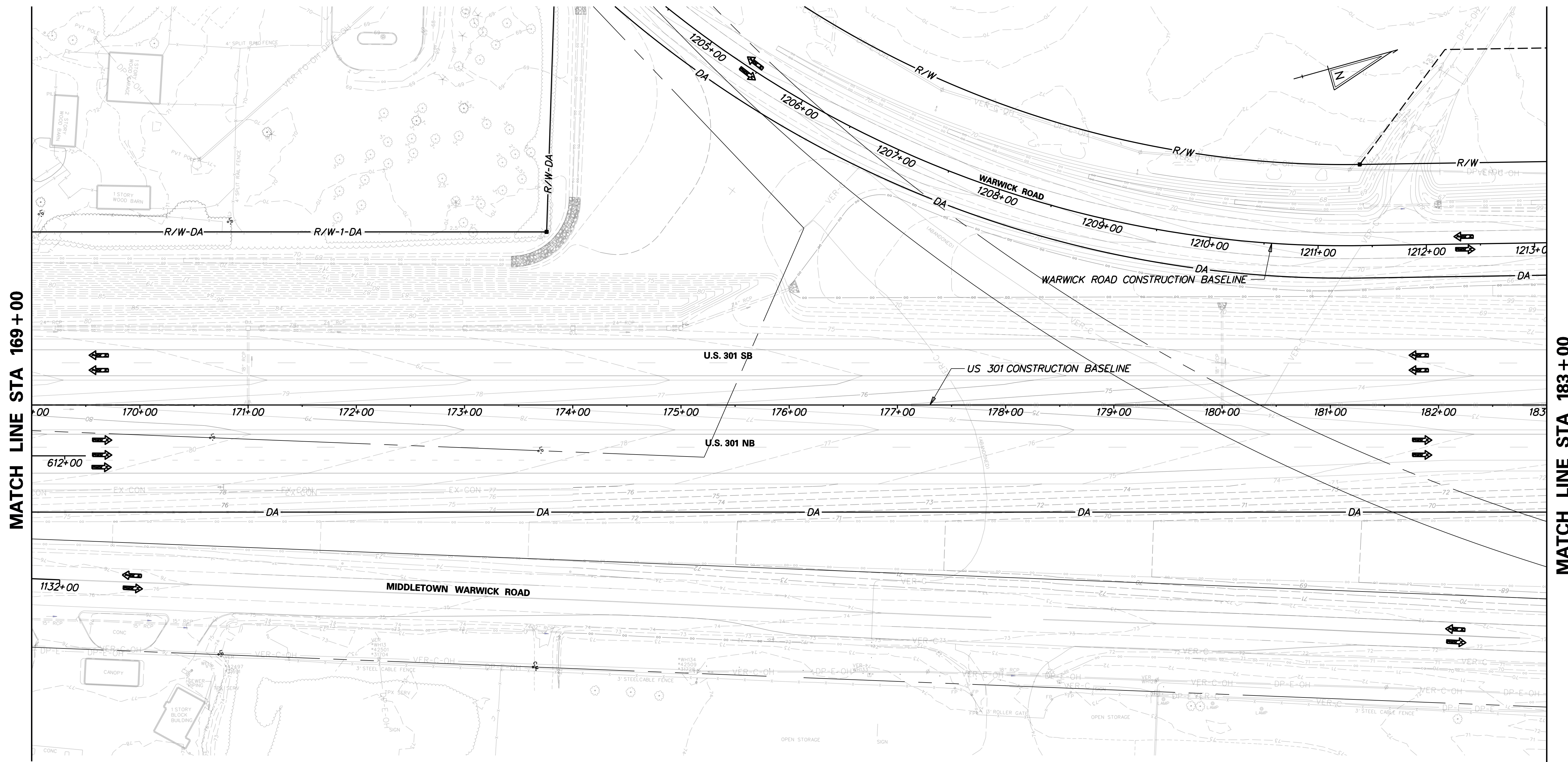
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 3C
TOTAL SHTS. 1256


MD-38
SHEET NO. 1150
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

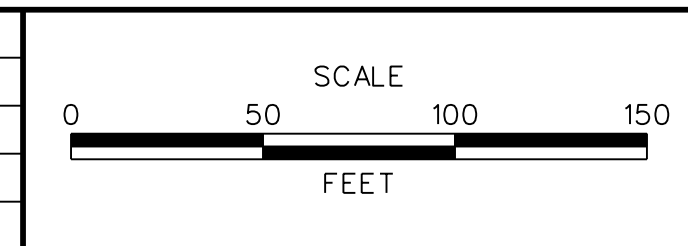


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**DELAWARE
DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS	




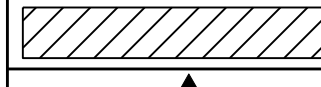

**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM CHECKED BY: SKH

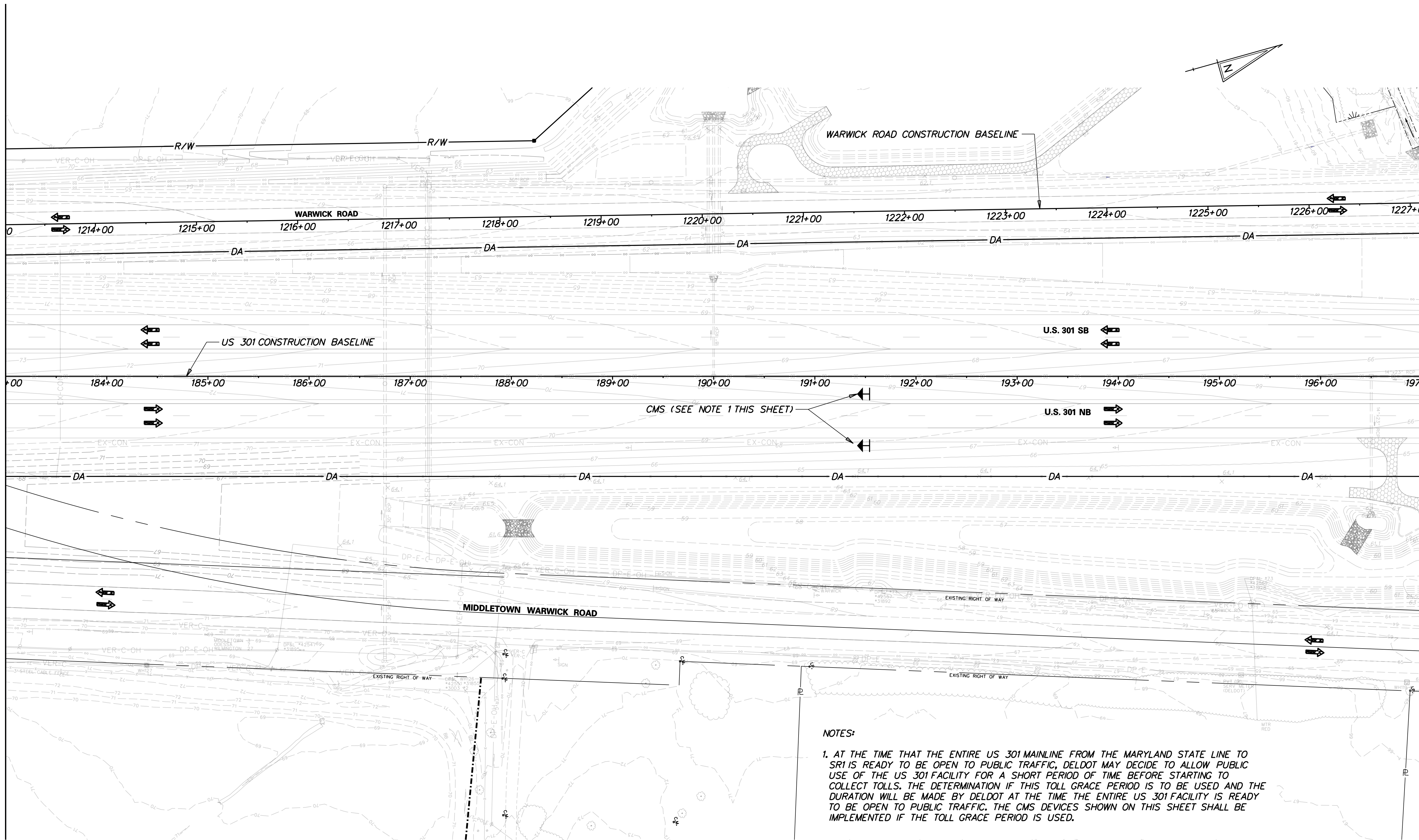
**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3C**

MD-39
SHEET NO. 1151
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

MATCH LINE STA 183+00



CMS (SEE NOTE 1 THIS SHEET)

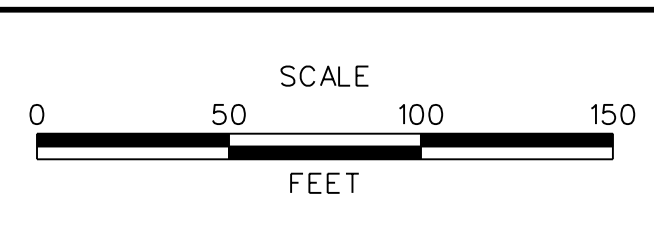
NOTES:
 1. AT THE TIME THAT THE ENTIRE US 301 MAINLINE FROM THE MARYLAND STATE LINE TO SRI IS READY TO BE OPEN TO PUBLIC TRAFFIC, DELDOT MAY DECIDE TO ALLOW PUBLIC USE OF THE US 301 FACILITY FOR A SHORT PERIOD OF TIME BEFORE STARTING TO COLLECT TOLLS. THE DETERMINATION IF THIS TOLL GRACE PERIOD IS TO BE USED AND THE DURATION WILL BE MADE BY DELDOT AT THE TIME THE ENTIRE US 301 FACILITY IS READY TO BE OPEN TO PUBLIC TRAFFIC. THE CMS DEVICES SHOWN ON THIS SHEET SHALL BE IMPLEMENTED IF THE TOLL GRACE PERIOD IS USED.

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	




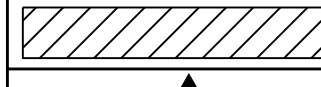

US 301 MARYLAND STATE LINE TO LEVELS ROAD

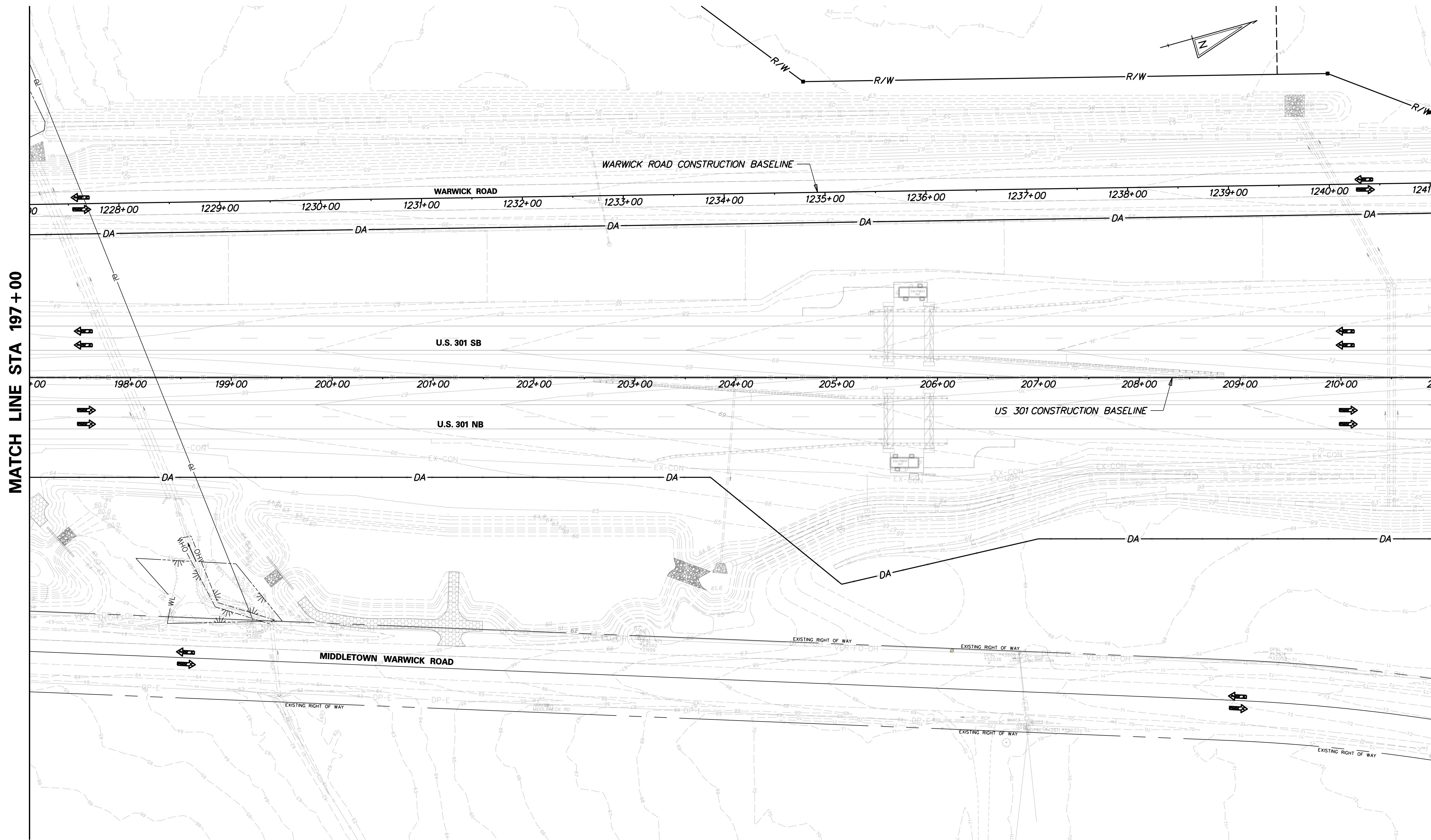
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 3C

MD-40
SHEET NO.
1152
TOTAL SHTS.
1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



MATCH LINE STA 197 + 00

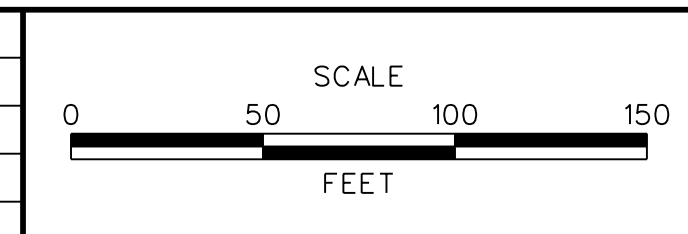
MATCH LINE STA 211 + 00

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**DELAWARE
DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS	




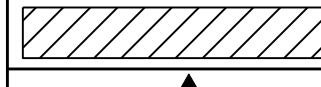

**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

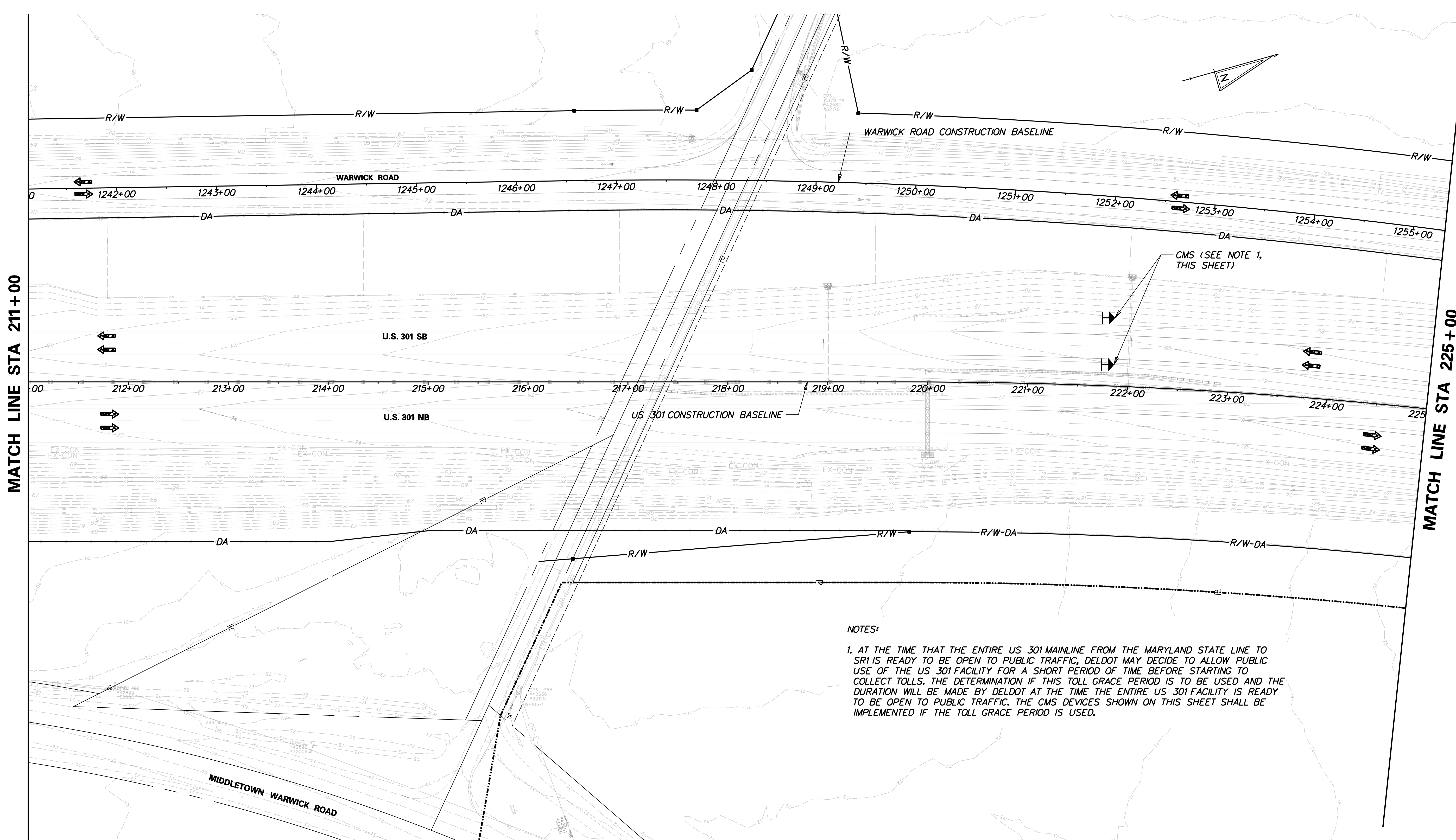
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3C**

MD-41
SHEET NO. 1153
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



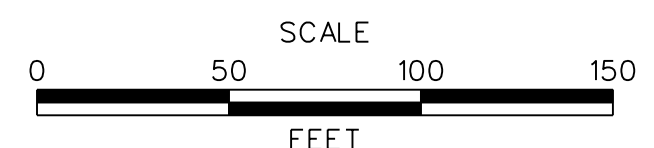
NOTES:

1. AT THE TIME THAT THE ENTIRE US 301 MAINLINE FROM THE MARYLAND STATE LINE TO SR1 IS READY TO BE OPEN TO PUBLIC TRAFFIC, DELDOT MAY DECIDE TO ALLOW PUBLIC USE OF THE US 301 FACILITY FOR A SHORT PERIOD OF TIME BEFORE STARTING TO COLLECT TOLLS. THE DETERMINATION IF THIS TOLL GRACE PERIOD IS TO BE USED AND THE DURATION WILL BE MADE BY DELDOT AT THE TIME THE ENTIRE US 301 FACILITY IS READY TO BE OPEN TO PUBLIC TRAFFIC. THE CMS DEVICES SHOWN ON THIS SHEET SHALL BE IMPLEMENTED IF THE TOLL GRACE PERIOD IS USED.

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ADDENDUMS / REVISIONS	




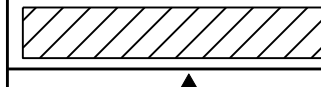

**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

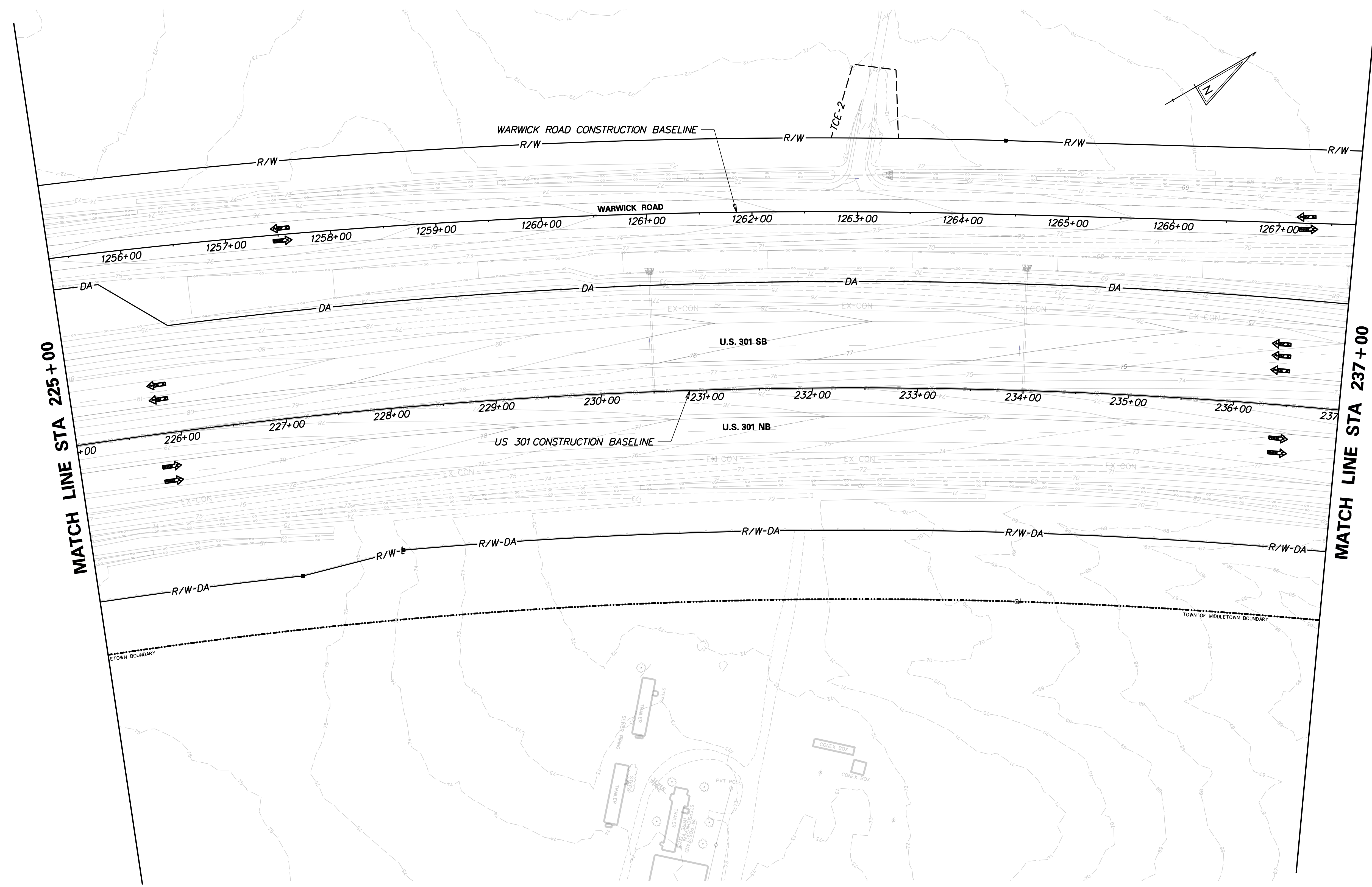
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

**CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3C**

MD-42
SHEET NO. 1154
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

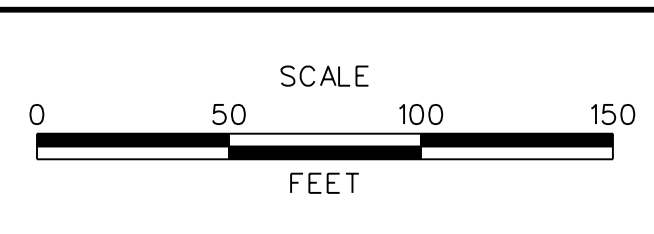


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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	




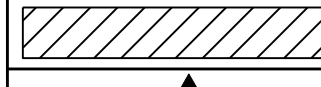

US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

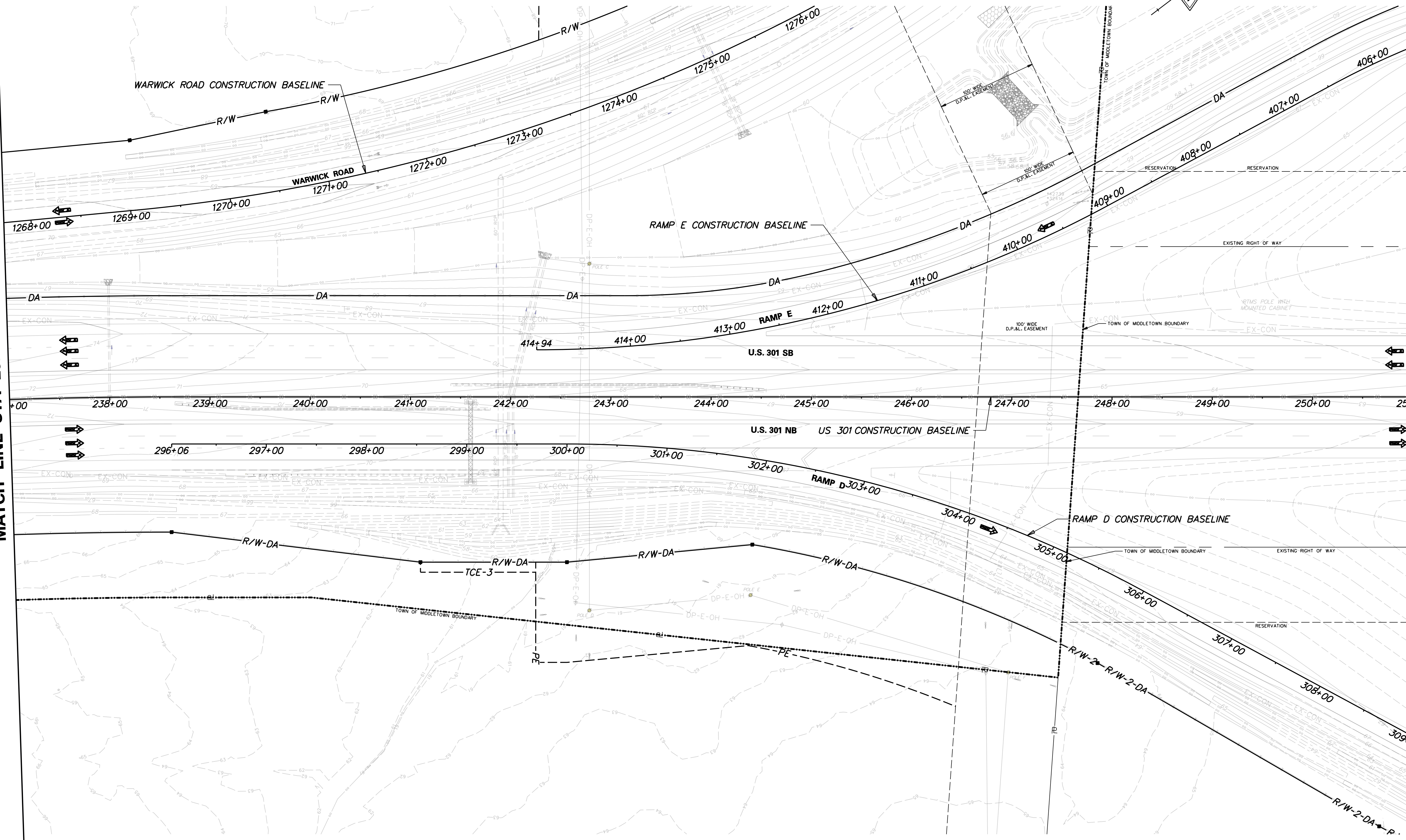
CONSTRUCTION PHASING,
M.O.T., AND EROSION
CONTROL PLAN - PHASE 3C

MD-43
SHEET NO. 1155
TOTAL SHTS. 1256

CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

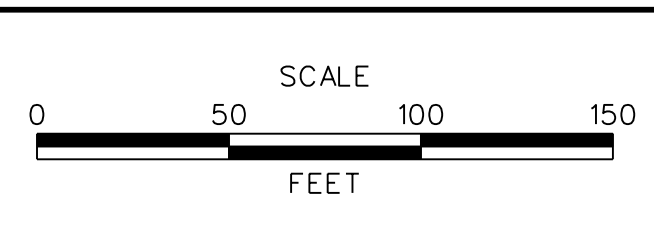
MATCH LINE STA 237+00



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 **DELAWARE DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS	



US 301 MARYLAND STATE LINE TO LEVELS ROAD

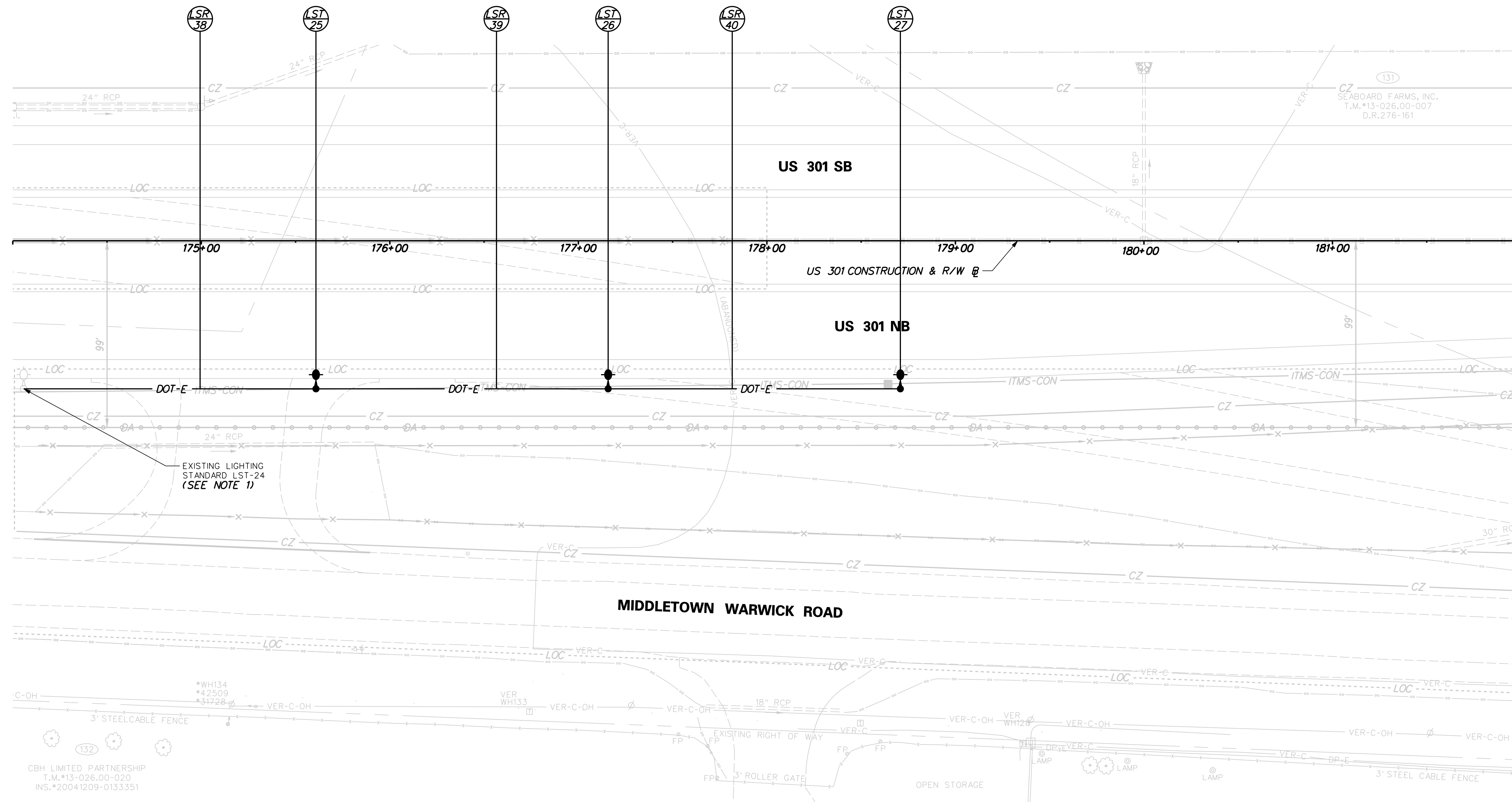
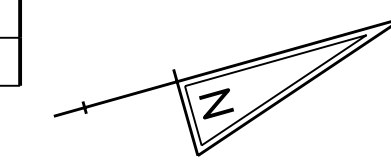
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 3C

MD-44
SHEET NO. 1156
TOTAL SHTS. 1256

LIGHTING STANDARD SCHEDULE					
NO.	CIRCUIT NO.	STATION	OFFSET	ARM	LIGHT STANDARD
25	D	175+61	78.5 RT.	-	40FT W/250W HPS OFFSET
26	D	177+16	78.5 RT.	-	40FT W/250W HPS OFFSET
27	D	178+71	78.5 RT.	-	40FT W/250W HPS OFFSET

LIGHTING SERVICE SCHEDULE			
SERVICE RUN	DISTANCE (L.F.)	DESCRIPTION	INSTALLATION
38	155.0	2 #2 & 1 #2 GND IN 4" SCH 80 PVC CONDUIT	TRENCH
39	155.0	2 #2 & 1 #2 GND IN 4" SCH 80 PVC CONDUIT	TRENCH
40	155.0	2 #2 & 1 #2 GND IN 4" SCH 80 PVC CONDUIT	TRENCH



EXISTING LIGHTING STANDARD LST-24 (SEE NOTE 1)

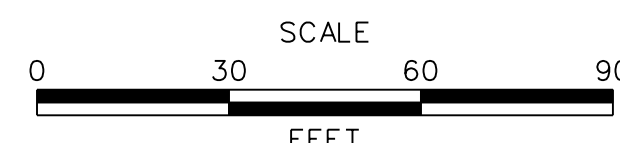
NOTE:

- CONNECT LSR-38 TO CONDUIT STUB FROM EXISTING LIGHTING STANDARD INSTALLED IN CONTRACT T200811301. TURN POWER OFF IN PANEL LP-A, CIRCUIT "D" LOCATED AT WEIGH STATION PRIOR TO SPLICING CABLES LOCATED IN BASE OF LST-24. REENERGIZE CIRCUIT WHEN WORK IS COMPLETED.

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ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: ML CHECKED BY: JM

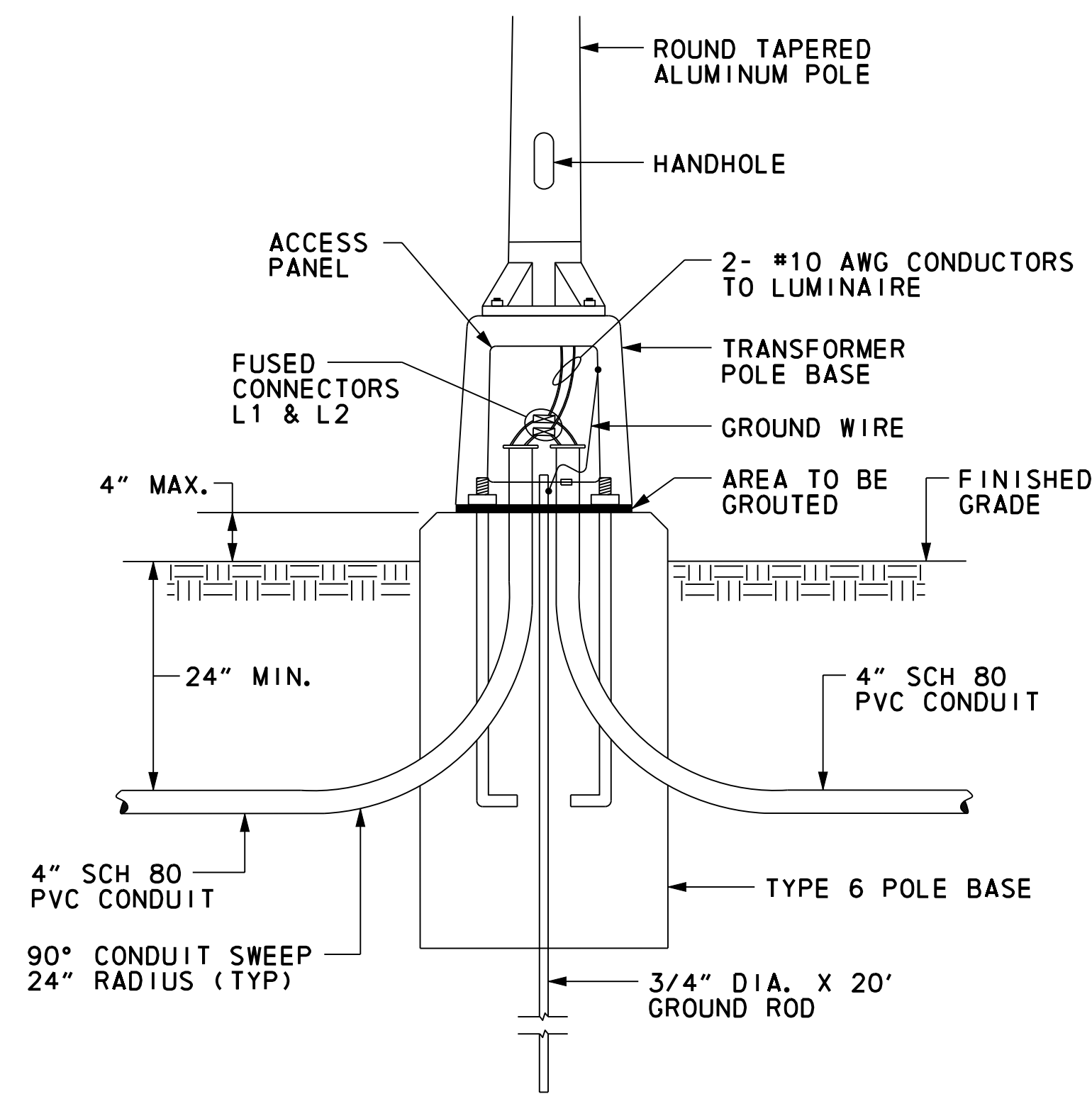
LIGHTING PLAN	MD-45
	SHEET NO. 1157
	TOTAL SHTS. 1256

PROJECT LIGHTING NOTES:

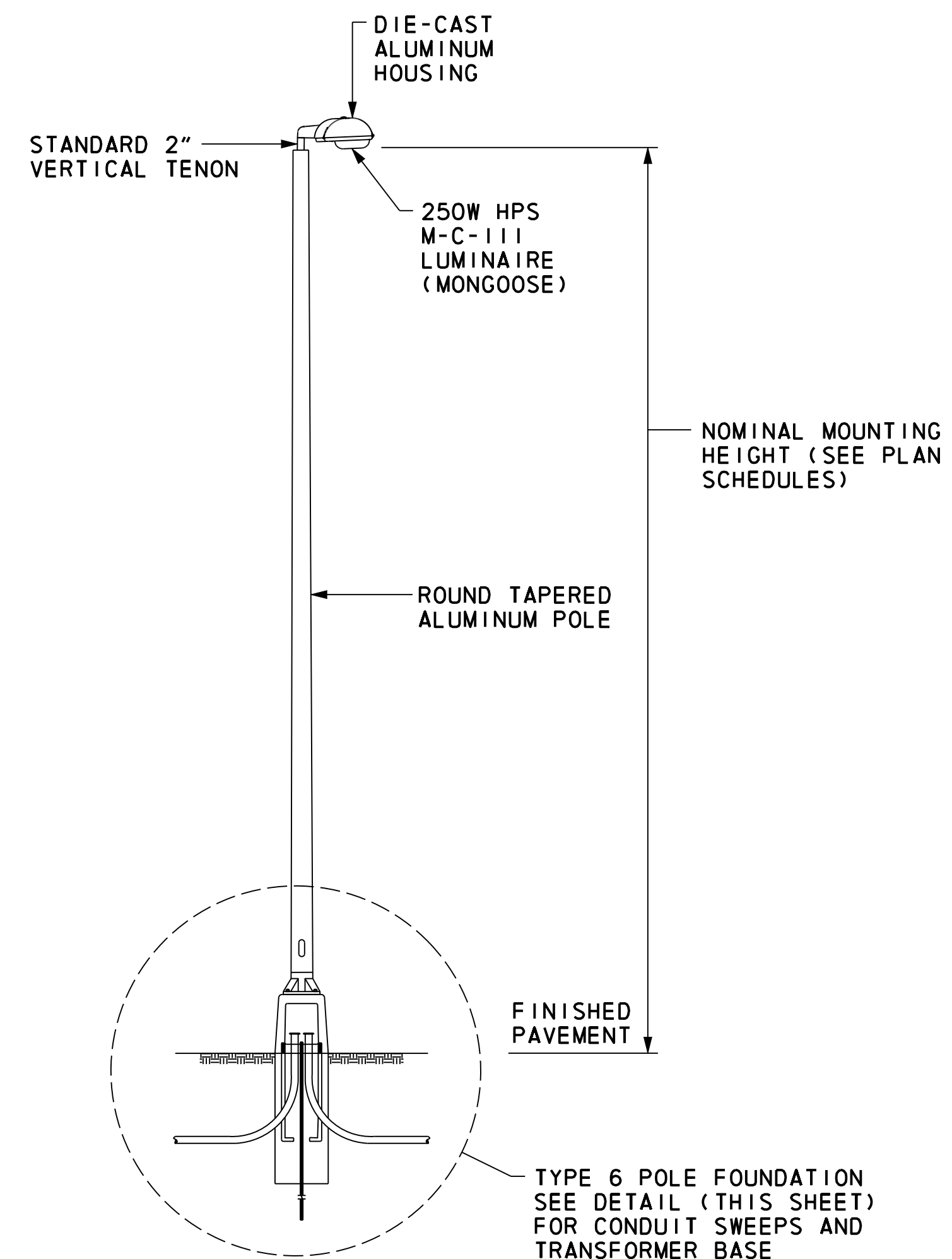
1. ALL OFFSET AND COBRA HEAD LIGHTING STANDARD POLE BASES SHALL BE TYPE 6.
2. SERVICE RUNS ARE SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL LOCATE THE SERVICE RUNS IN A MANNER THAT AVOIDS CONFLICTS WITH ALL EXISTING AND PROPOSED FEATURES AS FIELD CONDITIONS DICTATE AND AS APPROVED BY THE ENGINEER.
3. STATIONS AND OFFSETS NOTED IN THE LIGHTING STANDARD SCHEDULES ARE GIVEN TO THE CENTER OF THE POLE.
4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL THE CONTRACTORS INVOLVED ON THIS PROJECT. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND THE GENERAL SUPERINTENDENT THE LOCATIONS OF ALL CONDUIT AND POLE BASES TO ELIMINATE CONSTRUCTION CONFLICTS.
5. BURIED ELECTRICAL CABLE AND CONDUIT, AND OTHER UTILITIES MAY EXIST THROUGHOUT THIS PROJECT. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PREVENTING DAMAGE TO THEM, AND MAINTAINING THEM IN SERVICE WHEN AND WHERE REQUIRED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BY HAND EXCAVATION PRIOR TO TRENCHING BY MACHINE.
6. COLOR CODING SHALL BE PROVIDED THROUGHOUT THE ENTIRE NETWORK FOR BRANCH AND CONTROL CONDUCTORS. EACH PHASE SHALL BE AN INDEPENDENT COLOR. CONDUCTORS SHALL HAVE FACTORY IMPREGNATED COLOR THROUGHOUT THEIR ENTIRE LENGTH. PHASE TAPING IS NOT PERMITTED.
7. ALL FUSED CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.
8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE PRIOR TO WORK.
9. ALL CONDUITS, LIGHTING STANDARDS, ETC. SHALL BE STAKED OUT AND EVERY LOCATION APPROVED BY THE ENGINEER BEFORE ANY WORK IS DONE.
10. ALL GROUNDING CONDUCTORS IN PROPOSED UNDERGROUND CONDUITS SHALL BE STRANDED COPPER WITH SIZE AS NOTED IN THE LIGHTING SERVICE SCHEDULE.
11. THE CONTRACTOR SHALL VERIFY THE OPERATING VOLTAGE OF ALL CIRCUITS OF THE EXISTING LIGHTING SYSTEMS THAT ARE BEING TIED INTO TO ENSURE COMPATIBILITY WITH PROPOSED LUMINAIRES.
12. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF LIGHTING CONDUITS WITH ITMS CONDUITS. ITMS AND LIGHTING CONDUITS MAY SHARE A COMMON TRENCH.
13. SPLICES FOR ALL ROADWAY LIGHTING ELECTRICAL CABLES, INCLUDING RE-CONNECTION OF EXISTING IMPACTED ELECTRICAL CABLES, SHALL BE COMPLETED USING APPROVED SPLICE KITS OR METHODS APPROVED BY THE ENGINEER AND SHALL BE INCIDENTAL TO THE SUPPLY AND INSTALLATION OF VARIOUS ROADWAY LIGHTING ELECTRICAL CABLES.
14. PROVIDE A DRAINAGE TEE AT THE LOW POINT OF CONDUIT RUN. DRAINAGE TEES SHALL BE INCIDENTAL TO CONDUIT ITEMS.
15. IN ADDITION TO THE CONDUIT LENGTHS IN THE SCHEDULES, AN ADDITIONAL 6' LENGTH OF CABLE SHALL BE ADDED AT EACH LIGHTING STANDARD LOCATION TO ACCOUNT FOR THE LENGTH OF CABLE EXTENDING INTO THE POLE BASE AND BACK DOWN TO CONTINUE THE LIGHTING CIRCUIT.
16. IF AN UNDERGROUND UTILITY IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER OF THE UTILITY. ANY DAMAGED SUSTAINED TO UTILITIES ABOVE OR BELOW GROUND SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR BACKFILL AN EXCAVATION AFFECTING SAID UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER.
17. ALL PROPOSED OFFSET LIGHTING STANDARDS SHALL BE INSTALLED WITH BREAKAWAY TRANSFORMER BASES, WHETHER PROTECTED OR UNPROTECTED, UNLESS OTHERWISE NOTED.

NOTES:

1. CONDUIT BUSHINGS SHALL BE USED AT EACH END OF EVERY CONDUIT TO PREVENT CABLE DAMAGE.
2. CONNECTOR/FUSE KITS WILL BE INCIDENTAL TO THE PROVISION OF THE CONDUCTORS.
3. ALL LUMINAIRES WILL HAVE STANDARD 2" TENON MOUNTING.
4. INSULATION ON LIGHTING CONDUCTORS SHALL BE DIFFERENT COLORS, L1 CONDUCTOR SHALL BE BLACK, AND L2 CONDUCTOR SHALL BE RED.



TYPICAL LIGHT POLE FOUNDATION
NOT TO SCALE



TYPICAL LIGHT STANDARD
NOT TO SCALE

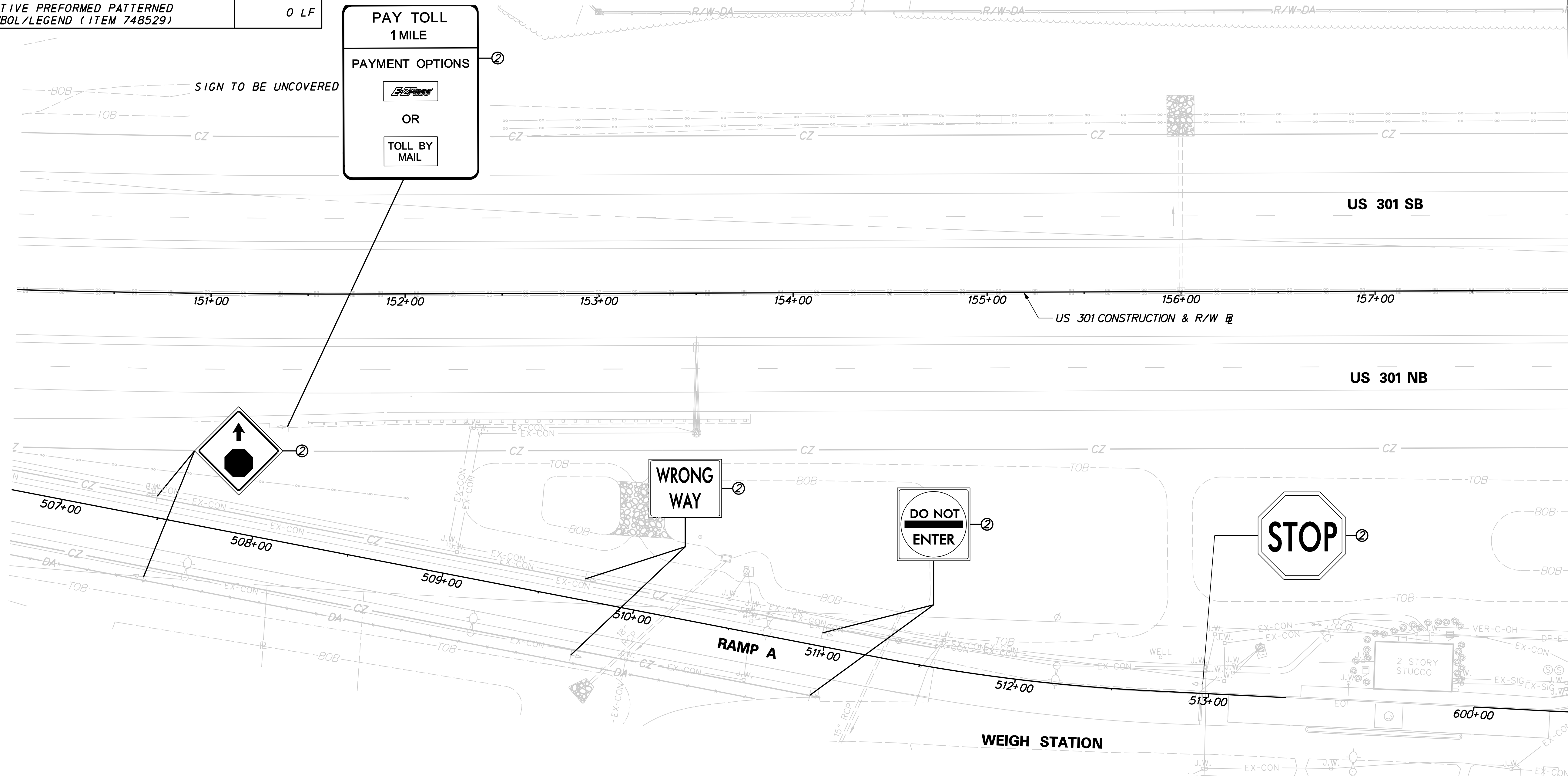
J:\B PROJECTS\34801\700C ADD\702 ROAD LIGHT\LL_301DS3_027.DGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	0 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	0 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 LF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	0 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	0 LF
(F)	12" SOLID WHITE RETROREFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	0 LF
(H)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
(I)	RETROREFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	0 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	0 LF
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(R)	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
(S)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	0 LF

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN



MATCH LINE STA 158+00 SHEET MD-48

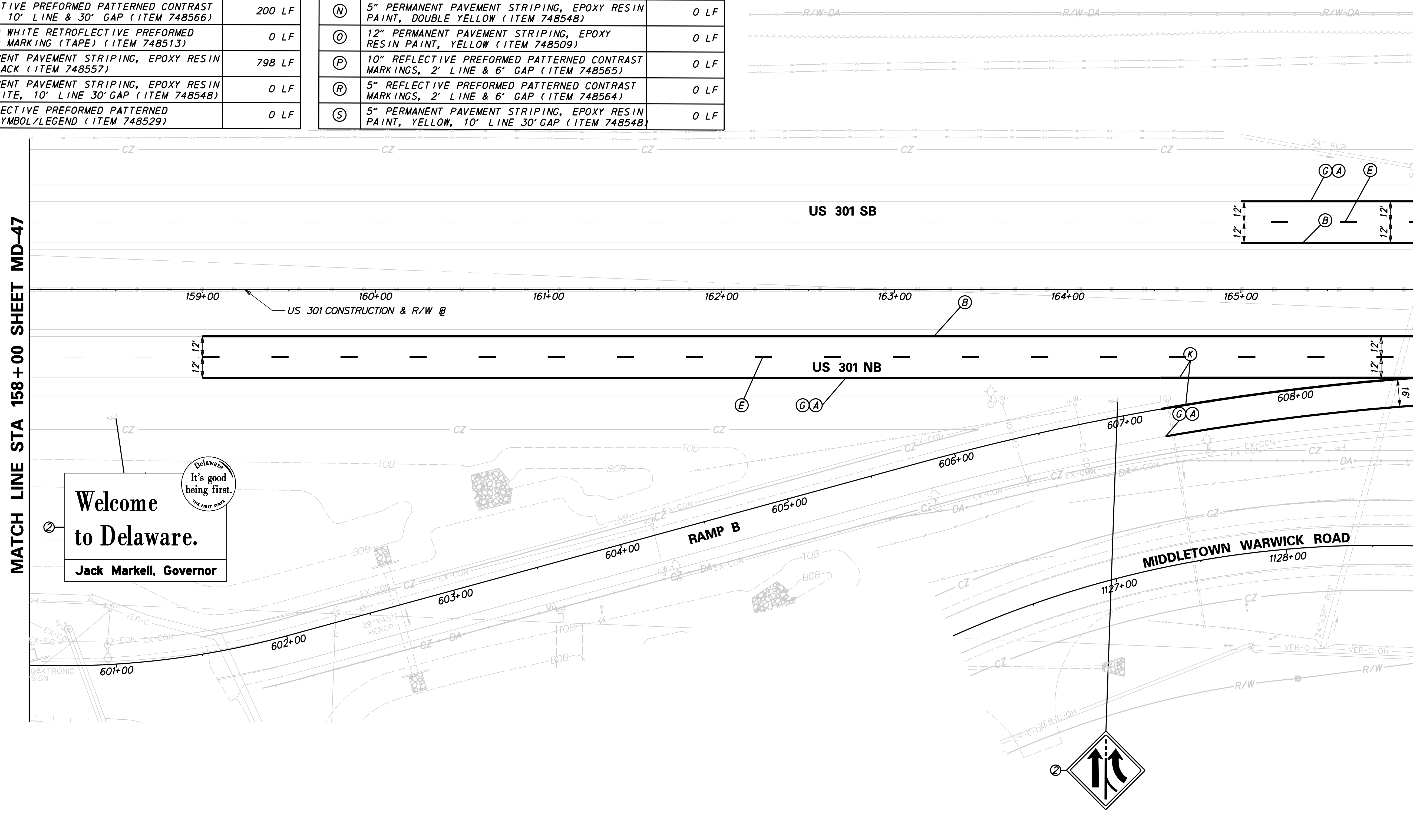
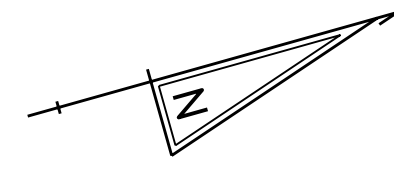
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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS	<p>SCALE</p> <p>0 30 60 90</p> <p>FEET</p>	<p>US 301 MARYLAND STATE LINE TO LEVELS ROAD</p>		CONTRACT	BRIDGE NO.	<p>SIGNING, STRIPING & CONDUIT PLAN</p>	MD-47
					T200911303	DESIGNED BY: MGP		SHEET NO.
					COUNTY	CHECKED BY: SKH		TOTAL SHTS.
					NEW CASTLE			1256

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	798 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	800 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 LF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	0 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	200 LF
(F)	12' SOLID WHITE RETROREFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	798 LF
(H)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
(I)	RETROREFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	294 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	0 LF
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF
(R)	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
(S)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	0 LF

SIGNING LEGEND	
(1)	REMOVE EXISTING SIGN
(2)	EXISTING SIGN TO REMAIN
(3)	PLACE NEW SIGN
(4)	RENEW EXISTING SIGN
(5)	REPOSITION EXISTING SIGN



MATCH LINE STA 158 + 00 SHEET MD-47

MATCH LINE STA 166 + 00 SHEET MD-49

J:\2008 PROJECTS\NE3\4801\700CADD\750AET\DESIGN SECTION 2 PLANS\MD_301AETDS2_048.DGN

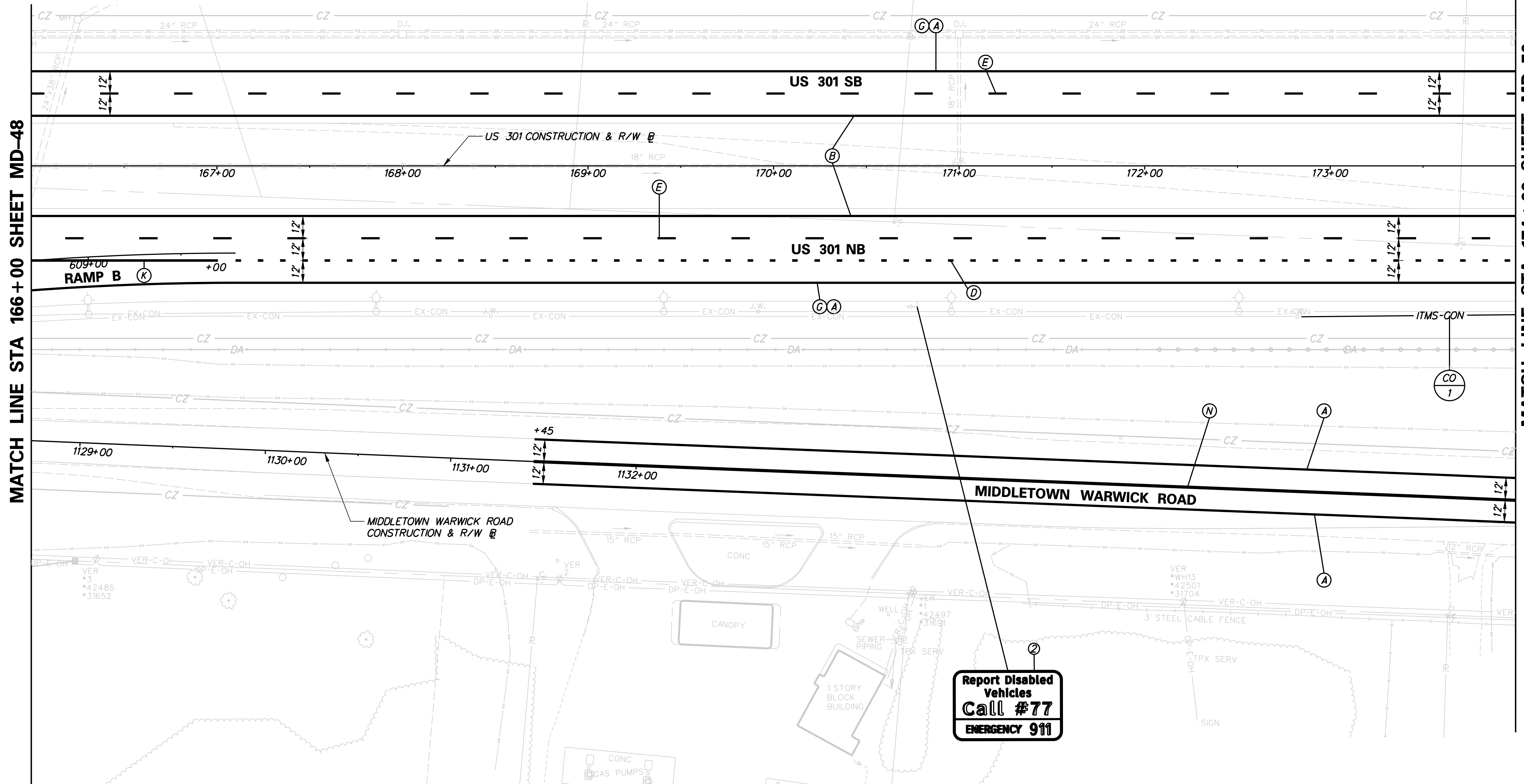
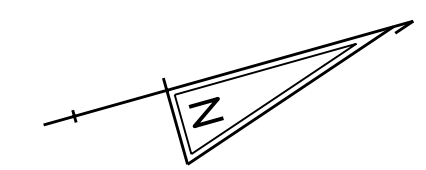
	DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS <table border="1" style="width: 100%; height: 20px;"> <tr><td> </td><td> </td></tr> </table>			SCALE 	US 301 MARYLAND STATE LINE TO LEVELS ROAD	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: small;">CONTRACT</td> <td style="font-size: small;">BRIDGE NO.</td> </tr> <tr> <td style="font-size: x-small;">T200911303</td> <td style="font-size: x-small;"> </td> </tr> <tr> <td style="font-size: x-small;">COUNTY</td> <td style="font-size: x-small;">DESIGNED BY: MGP</td> </tr> <tr> <td style="font-size: x-small;">NEW CASTLE</td> <td style="font-size: x-small;">CHECKED BY: SKH</td> </tr> </table>	CONTRACT	BRIDGE NO.	T200911303		COUNTY	DESIGNED BY: MGP	NEW CASTLE	CHECKED BY: SKH	SIGNING, STRIPING & CONDUIT PLAN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="font-size: x-small;">MD-48</td></tr> <tr><td style="font-size: x-small;">SHEET NO.</td></tr> <tr><td style="font-size: x-small;">1160</td></tr> <tr><td style="font-size: x-small;">TOTAL SHTS.</td></tr> <tr><td style="font-size: x-small;">1256</td></tr> </table>	MD-48	SHEET NO.	1160	TOTAL SHTS.	1256
CONTRACT	BRIDGE NO.																					
T200911303																						
COUNTY	DESIGNED BY: MGP																					
NEW CASTLE	CHECKED BY: SKH																					
MD-48																						
SHEET NO.																						
1160																						
TOTAL SHTS.																						
1256																						

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	2660 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	1600 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 LF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	175 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	400 LF
(F)	12" SOLID WHITE RETROREFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	1600 LF
(H)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
(I)	RETROREFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	100 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	1060 LF
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF
(R)	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
(S)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	0 LF

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

CONDUIT SCHEDULE				
NO.	DISTANCE (L. F.)	DESCRIPTION	INSTALLATION	REMARKS
1	575	4" SCH80 PVC	TRENCH	COMM CABLE



MATCH LINE STA 166+00 SHEET MD-48

MATCH LINE STA 174+00 SHEET MD-50

**Report Disabled Vehicles
Call #77
EMERGENCY 911**

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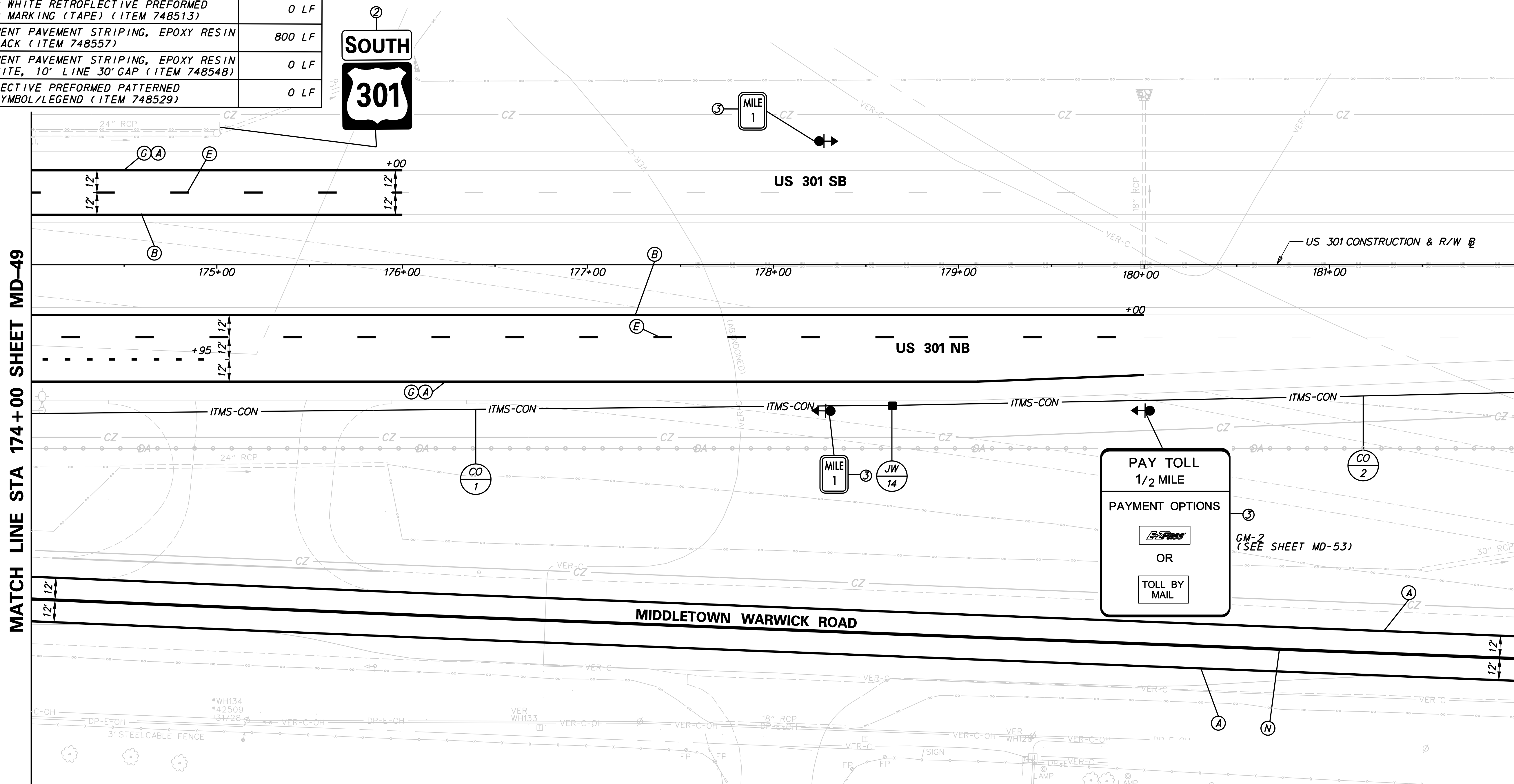
	ADDENDUMS / REVISIONS		SCALE 0 30 60 90 FEET	US 301 MARYLAND STATE LINE TO LEVELS ROAD	CONTRACT	BRIDGE NO.	SIGNING, STRIPING & CONDUIT PLAN	MD-49
					T200911303			SHEET NO.
					COUNTY	DESIGNED BY: MGP		1161
					NEW CASTLE	CHECKED BY: SKH		TOTAL SHTS. 1256

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	2402 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	800 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 LF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	24 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	200 LF
(F)	12' SOLID WHITE RETROREFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	800 LF
(H)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
(I)	RETROREFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	0 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	1601 LF
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF
(R)	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
(S)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	0 LF

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

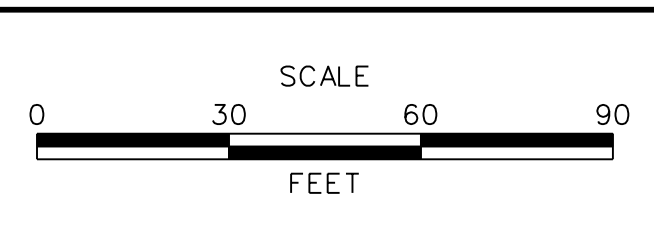


CONDUIT SCHEDULE				
NO.	DISTANCE (L. F.)	DESCRIPTION	INSTALLATION	REMARKS
2	500	4" SCH80 PVC	TRENCH	COMM CABLE

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ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MGP
	CHECKED BY: SKH

**SIGNING, STRIPING &
CONDUIT PLAN**

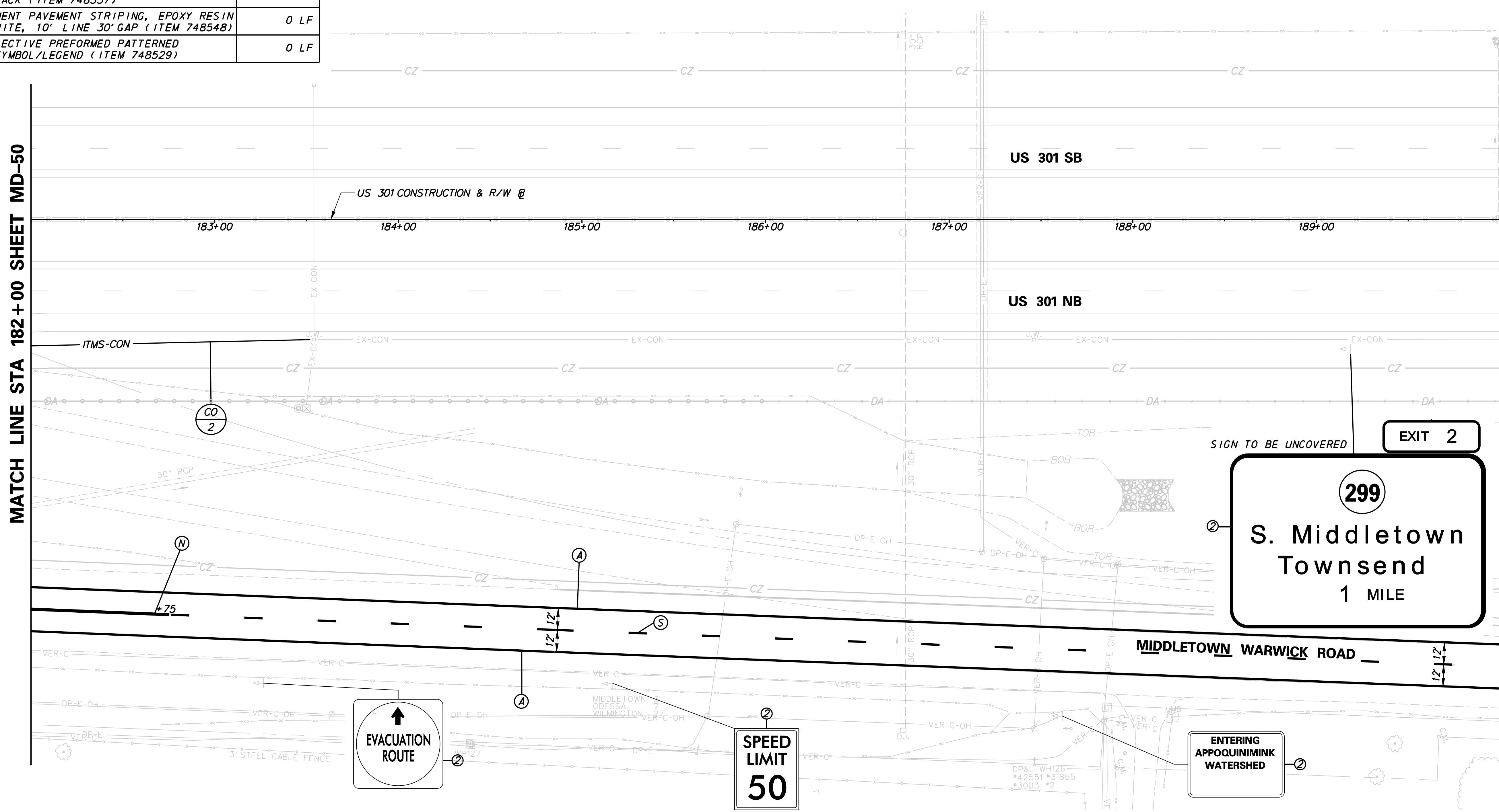
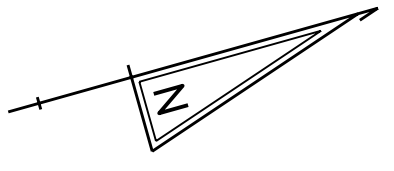
MD-50
SHEET NO. 1162
TOTAL SHTS. 1256

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	1601 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	0 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 LF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	0 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	0 LF
(F)	12" SOLID WHITE RETROREFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	0 LF
(H)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
(I)	RETROREFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	0 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	151 LF
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF
(R)	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
(S)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	181 LF

SIGNING LEGEND	
(1)	REMOVE EXISTING SIGN
(2)	EXISTING SIGN TO REMAIN
(3)	PLACE NEW SIGN
(4)	RENEW EXISTING SIGN
(5)	REPOSITION EXISTING SIGN



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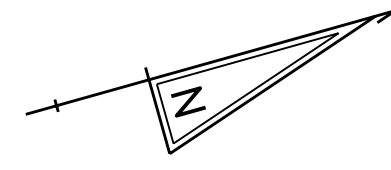
	DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>							SCALE 0 30 60 90 FEET	US 301 MARYLAND STATE LINE TO LEVELS ROAD	CONTRACT T200911303	BRIDGE NO. 	SIGNING, STRIPING & CONDUIT PLAN	MD-51
COUNTY NEW CASTLE	DESIGNED BY: MGP CHECKED BY: SKH	SHEET NO. 1163	TOTAL SHTS. 1256											

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	712 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	0 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 LF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	0 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	0 LF
(F)	12' SOLID WHITE RETROFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	0 LF
(H)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
(I)	RETROFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 LF

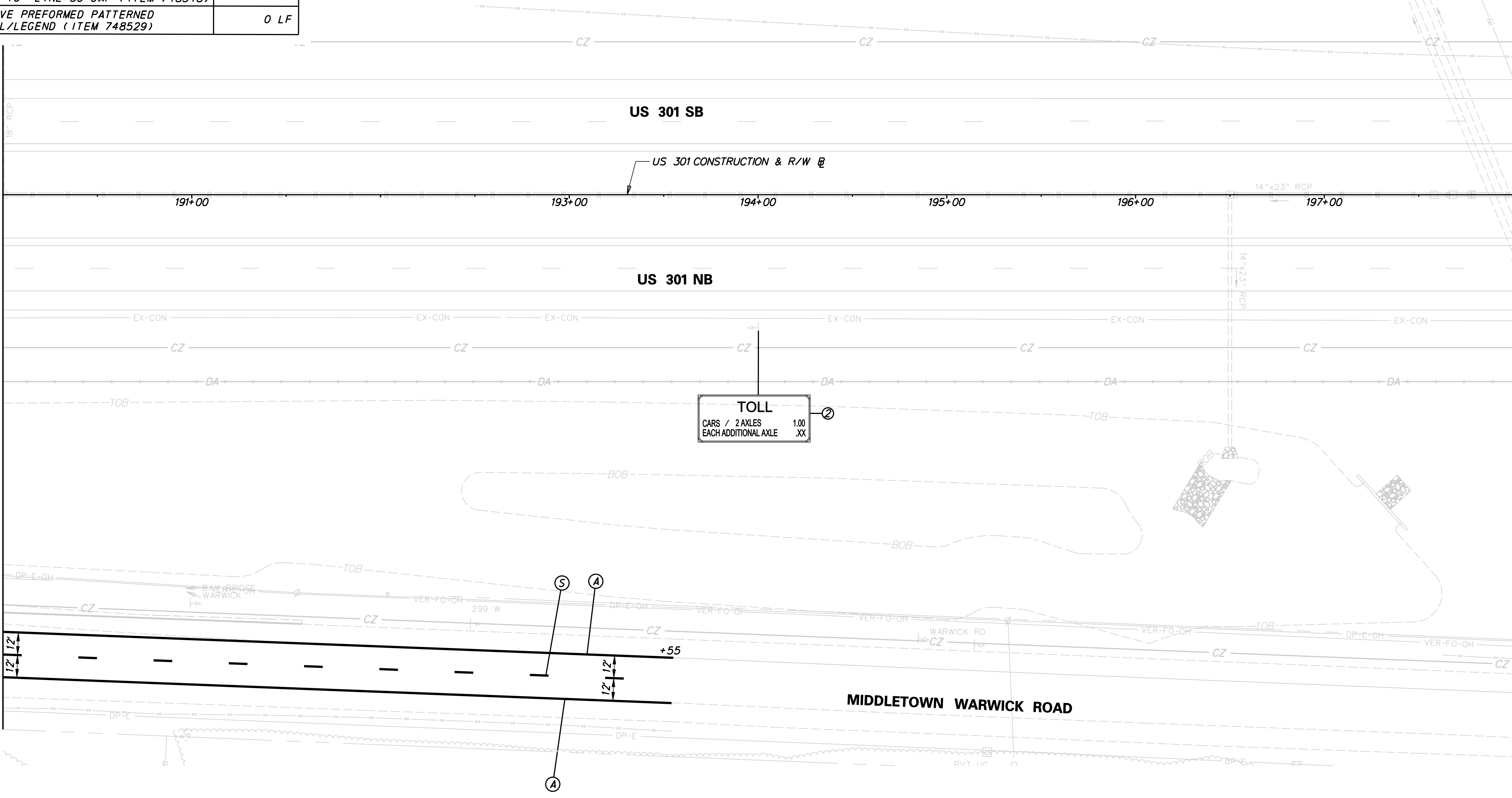
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	0 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	0 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF
(R)	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
(S)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	89 LF

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN



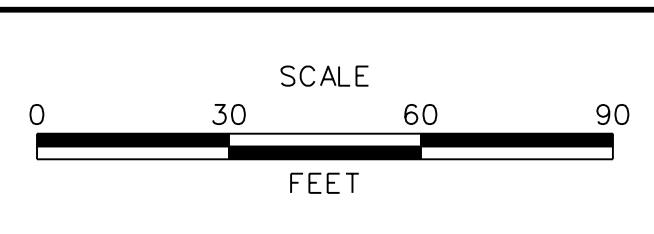
MATCH LINE STA 190+00 SHEET MD-51



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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	



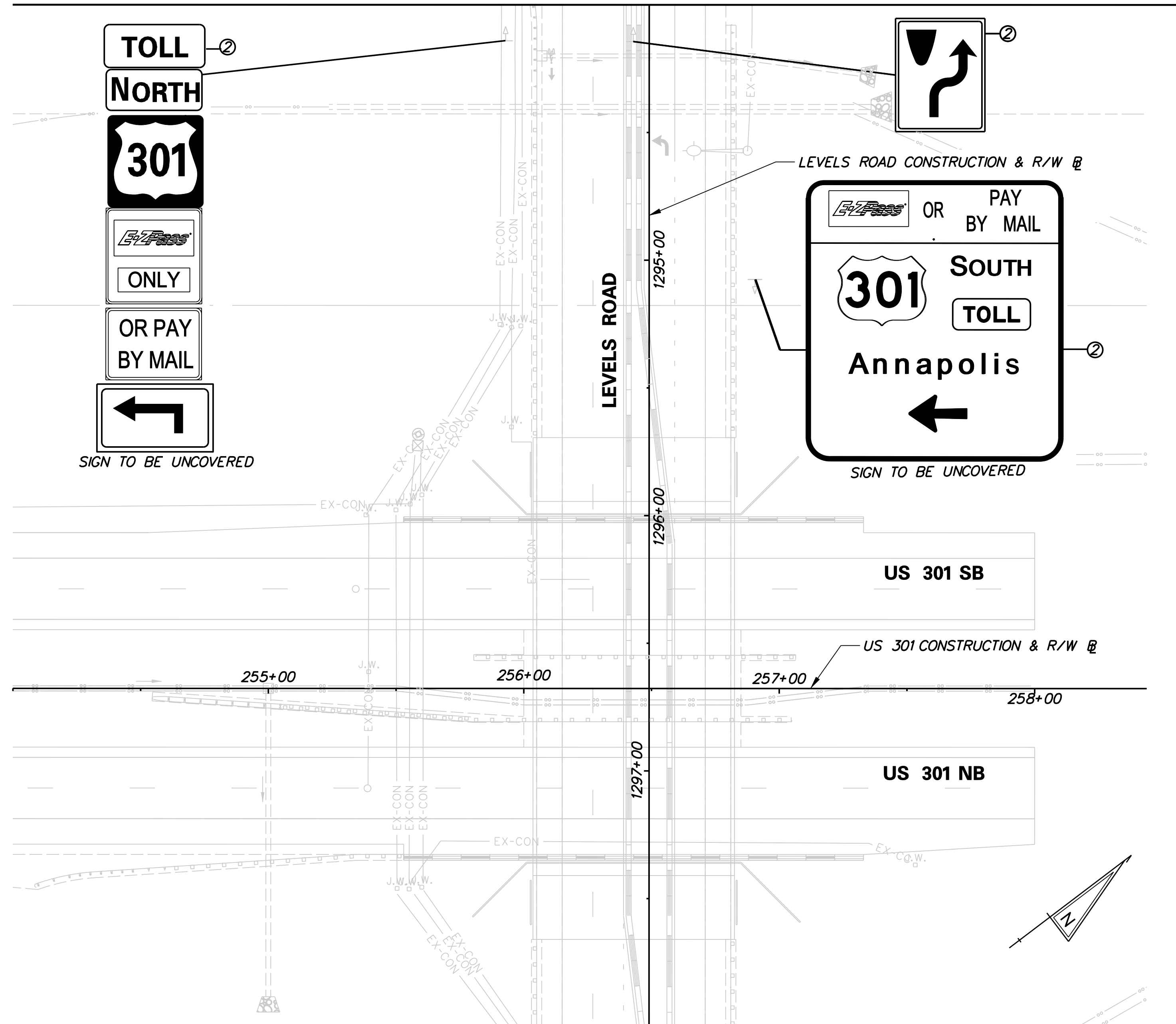
US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MGP
	CHECKED BY: SKH

SIGNING, STRIPING & CONDUIT PLAN

MD-52
SHEET NO. 1164
TOTAL SHTS. 1256

MATCH LINE STA 1294+00 SHEET MD-54



MATCH LINE STA 1298+00 SHEET MD-55

PANEL DESIGNATION	DWG. NO. (MD)	QUANTITY	LEGEND	SIZE			COLOR		BORDER			REMARKS
				AREA	WIDTH	HEIGHT	LEGEND	BCKGRND	WIDTH	RADIUS	ARROW	
GM-2	50	1		63 SF	14'	4.5'	BLK	Y	2"	12"	-	EXTRUDED ALUMINUM (1) Clearview Hwy-4-W
				189 SF	14'	13.5'	W	G	2"	12"	-	

LEGEND & BACKGROUND COLORS: BLK=BLACK, BLU=BLUE, G=GREEN, R=RED, W=WHITE/SILVER, Y=YELLOW, FY=FLUORESCENT YELLOW, P=PURPLE
REFER TO THE DELDOT WEBSITE FOR THE LATEST "E-ZPass" LOGO DETAIL.

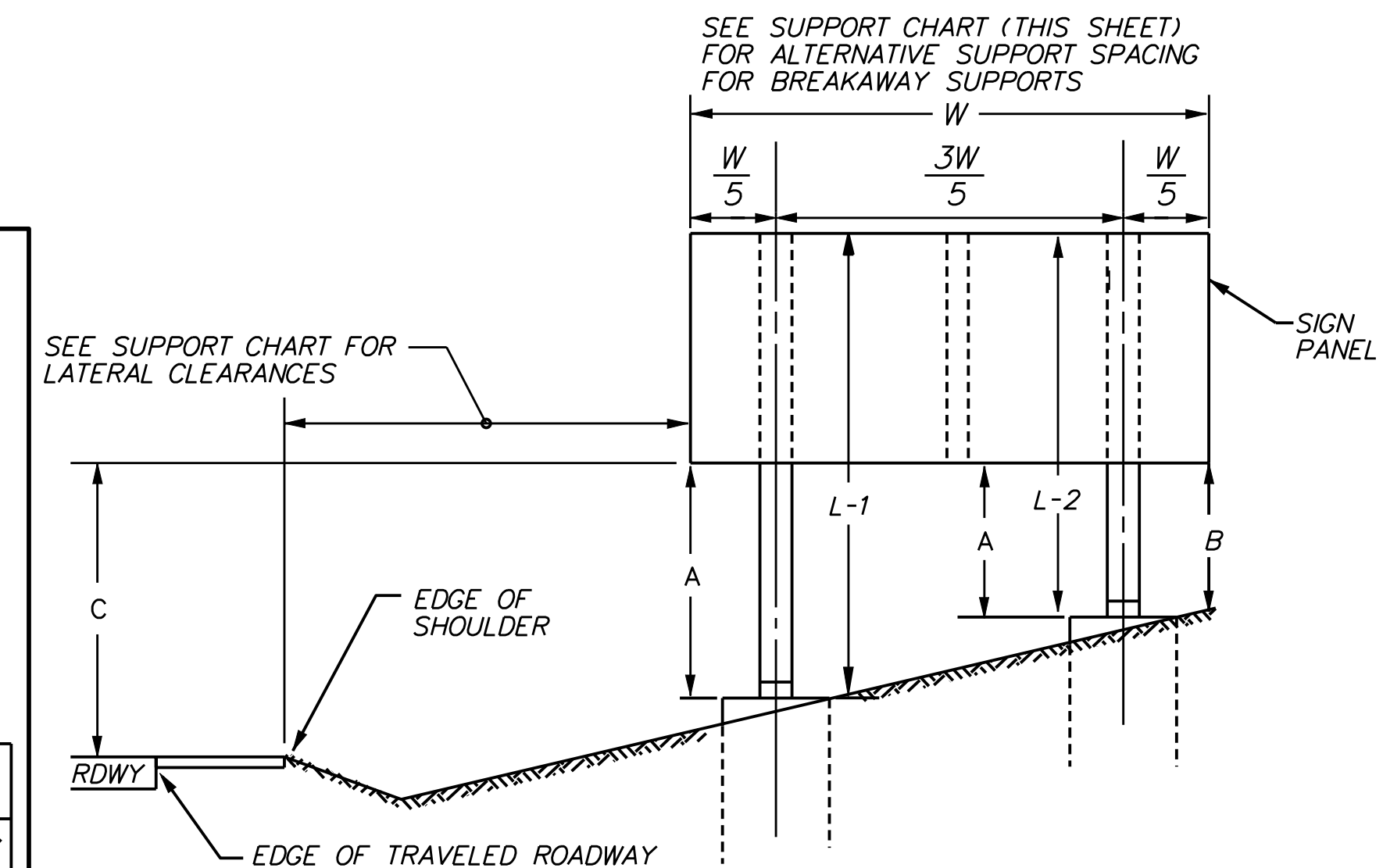
GUIDE SIGN STEEL SUPPORT CHART

SIGN NO.	SIGN SIZE (WXH)	PLAN SHEET NO.	POST SIZE	BW OR NBW*	SUPPORT L-1	SUPPORT L-2	SUPPORT L-3	LATERAL CLEARANCE		SUPPORT SPACING FROM LEFT EDGE OF SIGN
								OFFSET	OBJECT**	
GM-2	14' X 18'	MD-50	W18X40	BW	27.24'	28.65'	-	6.0'	ES	2.8' - 8.4' - 2.8'

* BW=BREAKAWAY, NBW=NON-BREAKAWAY **EDGE OF SHOULDER

NOTE: SUPPLY OF NON-BREAKAWAY I-BEAMS WILL BE PAID FOR UNDER THE RESPECTIVE SUPPLY OF BREAKAWAY I-BEAM SIGN POST ITEM. COST OF FURNISHING AND INSTALLING NON-BREAKAWAY BASE PLATE WILL NOT BE MEASURED AND PAID FOR, BUT WILL BE INCIDENTAL TO THE RESPECTIVE BREAKAWAY I-BEAM SIGN POST ITEM.

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN



VERTICAL CLEARANCE OF SIGNS
 A. 7'-6" MINIMUM FOR BREAKAWAY SUPPORTS OR 5'-6" FOR NON-BREAKAWAY SUPPORTS.
 B. 2.0' MINIMUM
 C. 7'-6" MINIMUM & PREFERABLE. THIS DIMENSION IS TO BE INCREASED ONLY WHEN REQUIRED TO MEET A = 7'-6" FOR BREAKAWAY OR A (MIN.) = 5'-6" FOR NON-BREAKAWAY AND B (MIN) 2'-0"
 ALL DIMENSIONS ARE TO BOTTOM OF SIGN

TOTAL WEIGHT BELOW THE HINGES SHOULD BE LESS THAN 600 POUNDS

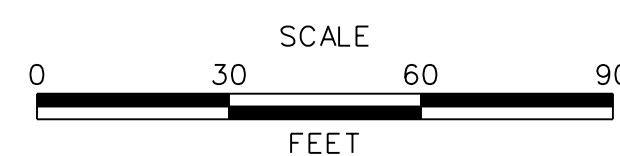
SIGN VERTICAL AND LATERAL CLEARANCE DETAIL

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
Ⓐ	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	0 LF
Ⓑ	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	0 LF
Ⓒ	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 LF
Ⓓ	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	0 LF
Ⓔ	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	0 LF
Ⓕ	12" SOLID WHITE RETROFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
Ⓖ	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	0 LF
Ⓗ	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
Ⓘ	RETROFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 LF
Ⓙ	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
Ⓚ	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	0 LF
Ⓛ	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
Ⓜ	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
Ⓝ	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	0 LF
Ⓞ	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF
Ⓟ	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF
Ⓡ	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
Ⓢ	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	0 LF

ADDENDUMS / REVISIONS

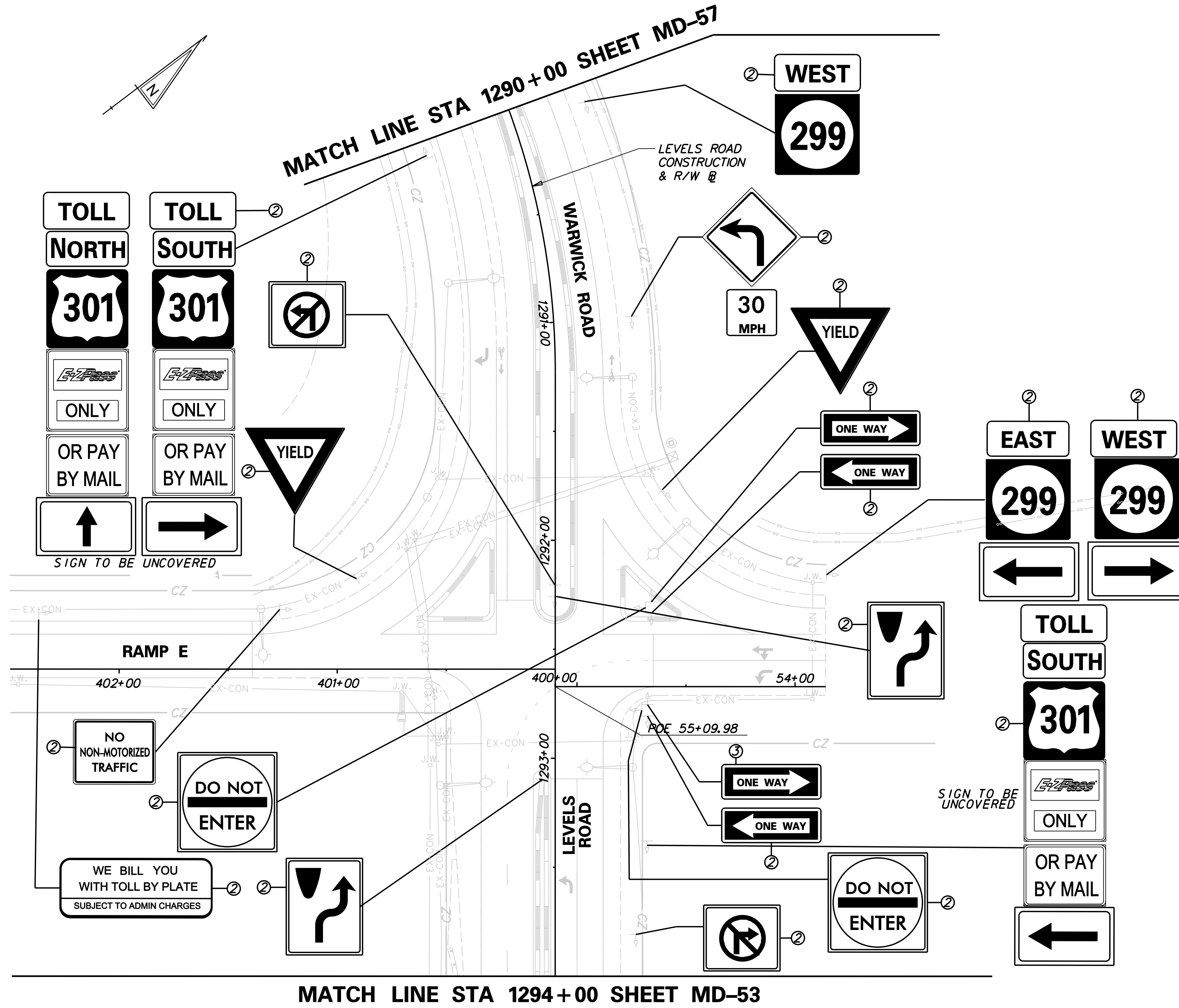
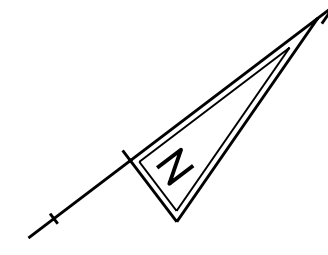


US 301 MARYLAND STATE LINE TO LEVELS ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MGP
NEW CASTLE	CHECKED BY: SKH

SIGNING, STRIPING & CONDUIT PLAN

MD-53
SHEET NO.
1165
TOTAL SHTS.
1256

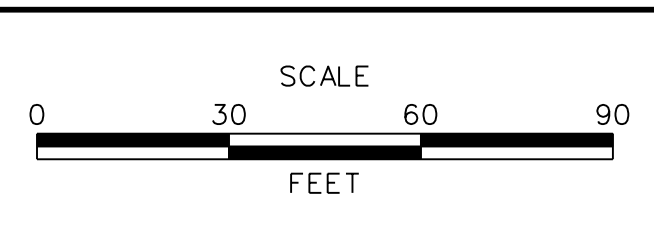


PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	0 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	0 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 LF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	0 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	0 LF
(F)	12' SOLID WHITE RETROREFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	0 LF
(H)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
(I)	RETROREFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 LF
(J)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	0 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	0 LF
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF
(R)	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
(S)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	0 LF

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

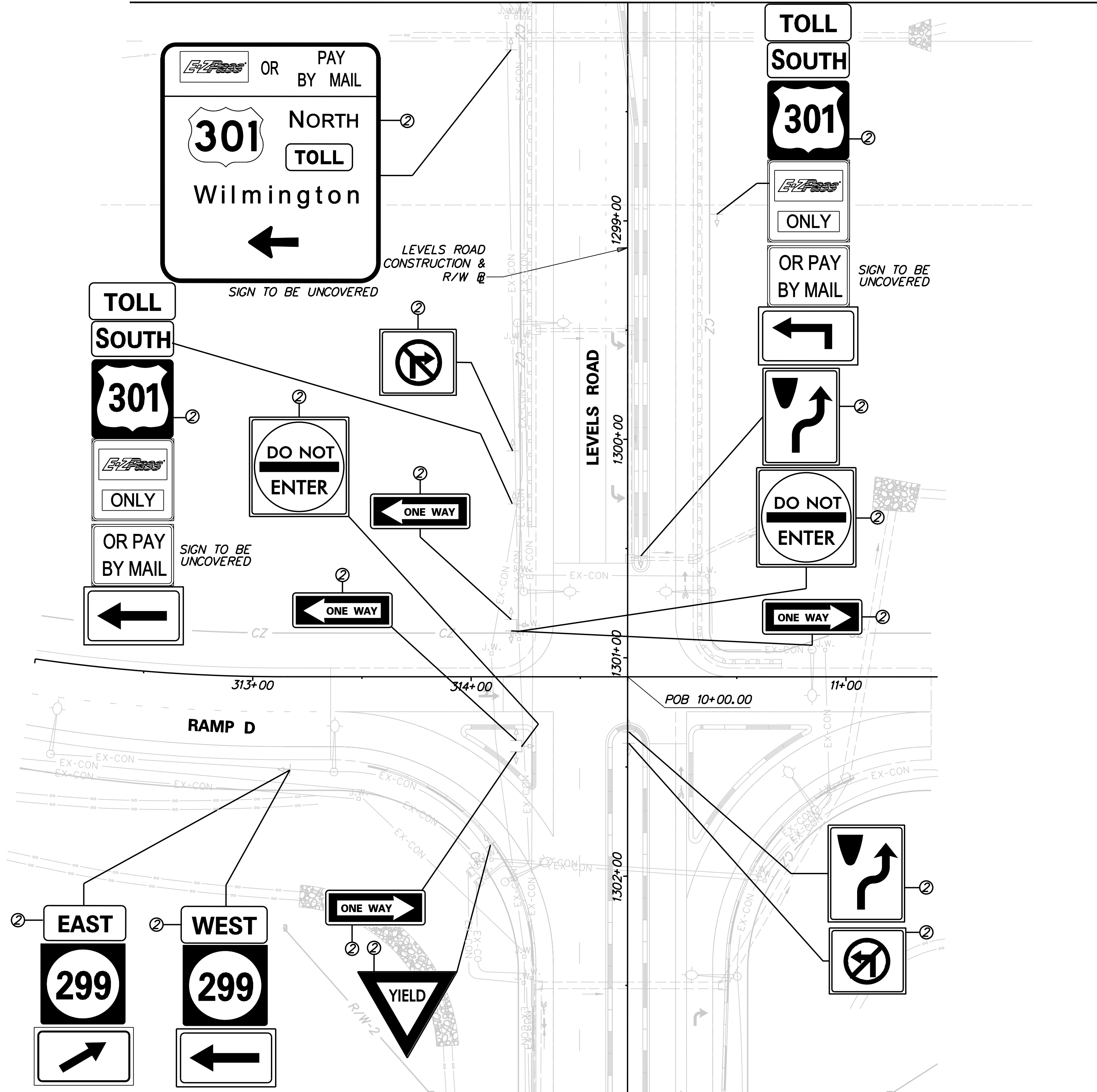
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ADDENDUMS / REVISIONS	



CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MGP
	CHECKED BY: SKH

MATCH LINE STA 1298+00 SHEET MD-53



SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

MATCH LINE STA 1303+00 SHEET MD-58

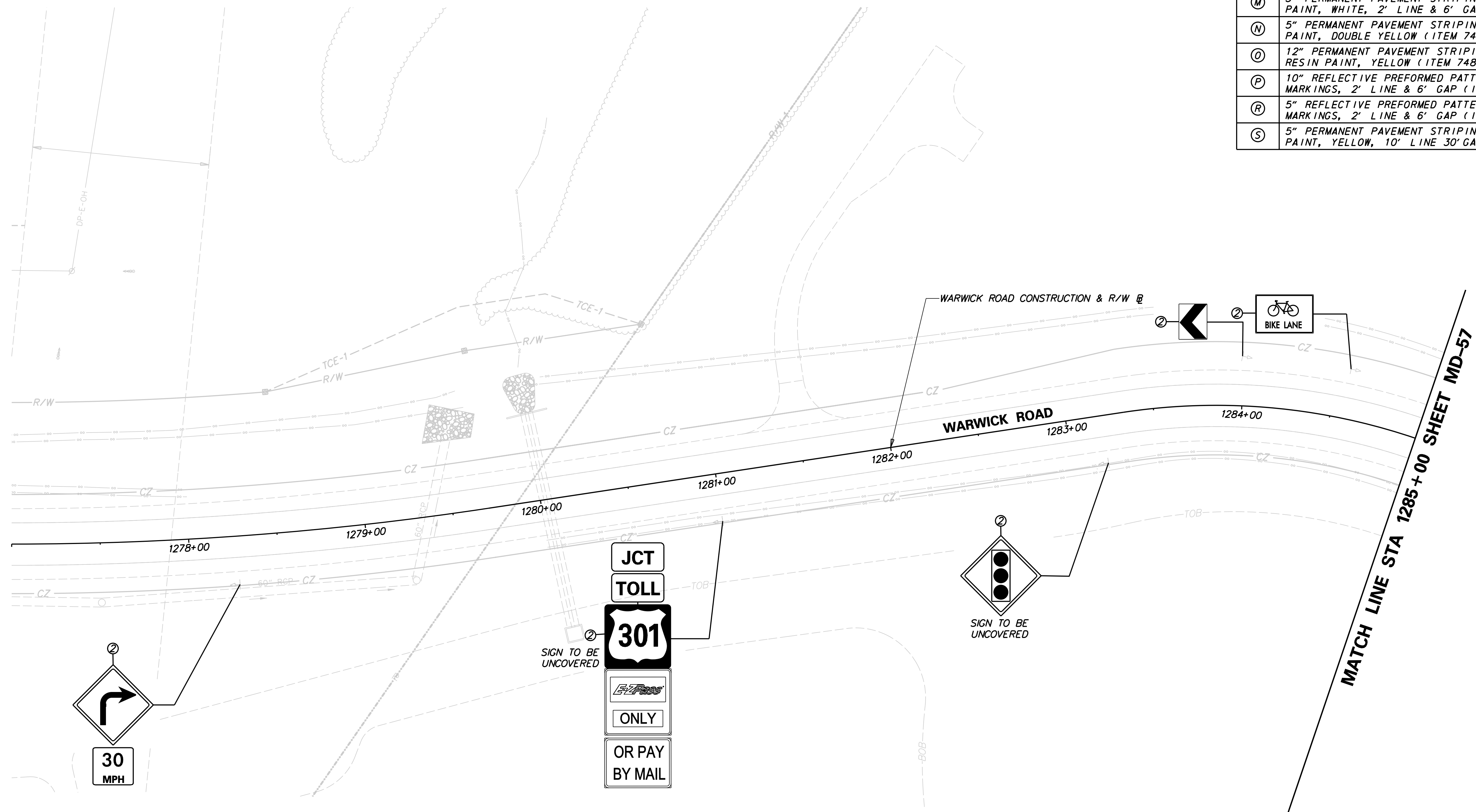
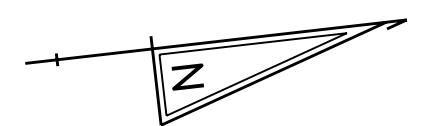
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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	<p>ADDENDUMS / REVISIONS</p>	<p>SCALE</p> <p>0 30 60 90</p> <p>FEET</p>	<p>US 301 MARYLAND STATE LINE TO LEVELS ROAD</p>	<p>CONTRACT: T200911303</p> <p>COUNTY: NEW CASTLE</p>	<p>BRIDGE NO.:</p> <p>DESIGNED BY: MGP</p> <p>CHECKED BY: SKH</p>	<p>SIGNING, STRIPING & CONDUIT PLAN</p>	<p>MD-55</p> <p>SHEET NO. 1167</p> <p>TOTAL SHTS. 1256</p>
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SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

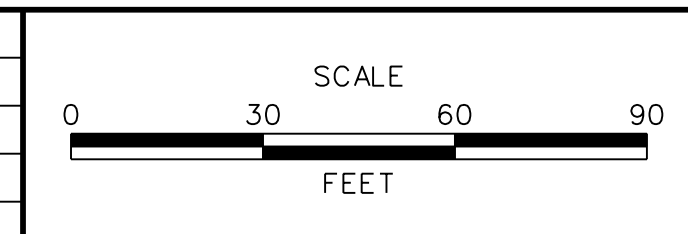
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	0 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	0 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 LF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	0 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	0 LF
(F)	12" SOLID WHITE RETROFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	0 LF
(H)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
(I)	RETROFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 LF
(J)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	0 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	0 LF
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF
(R)	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
(S)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	0 LF



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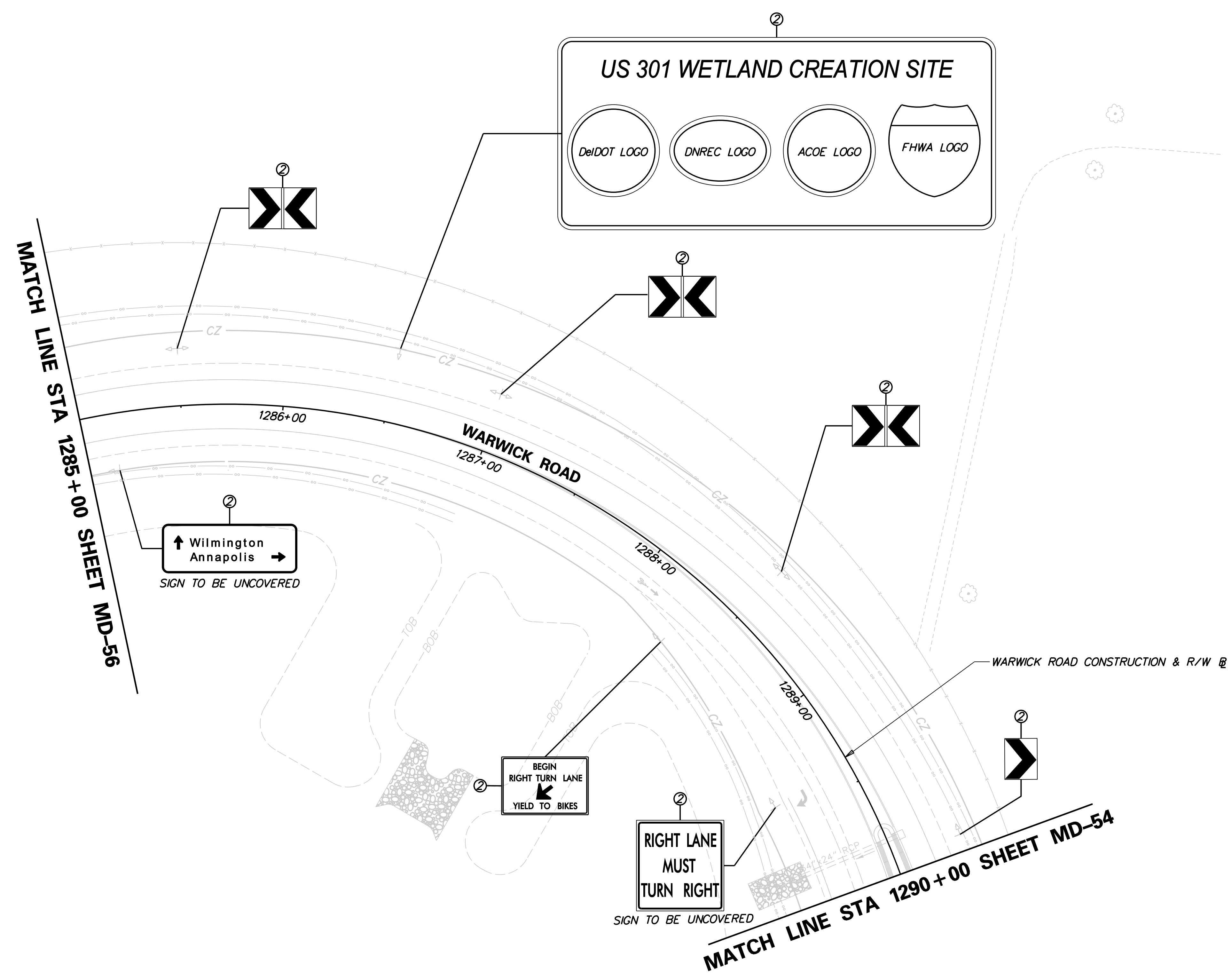
ADDENDUMS / REVISIONS	



CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MGP
NEW CASTLE	CHECKED BY: SKH

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

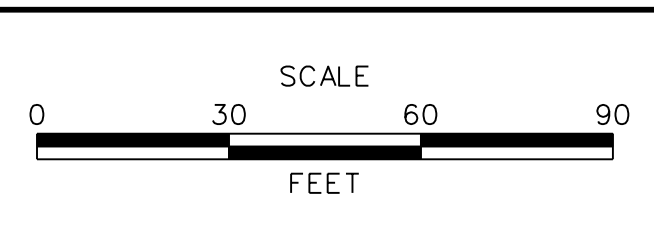
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	0 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	0 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 LF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	0 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	0 LF
(F)	12" SOLID WHITE RETROREFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	0 LF
(H)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
(I)	RETROREFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 LF
(J)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	0 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	0 LF
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF
(R)	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
(S)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	0 LF



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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



US 301 MARYLAND STATE LINE TO LEVELS ROAD

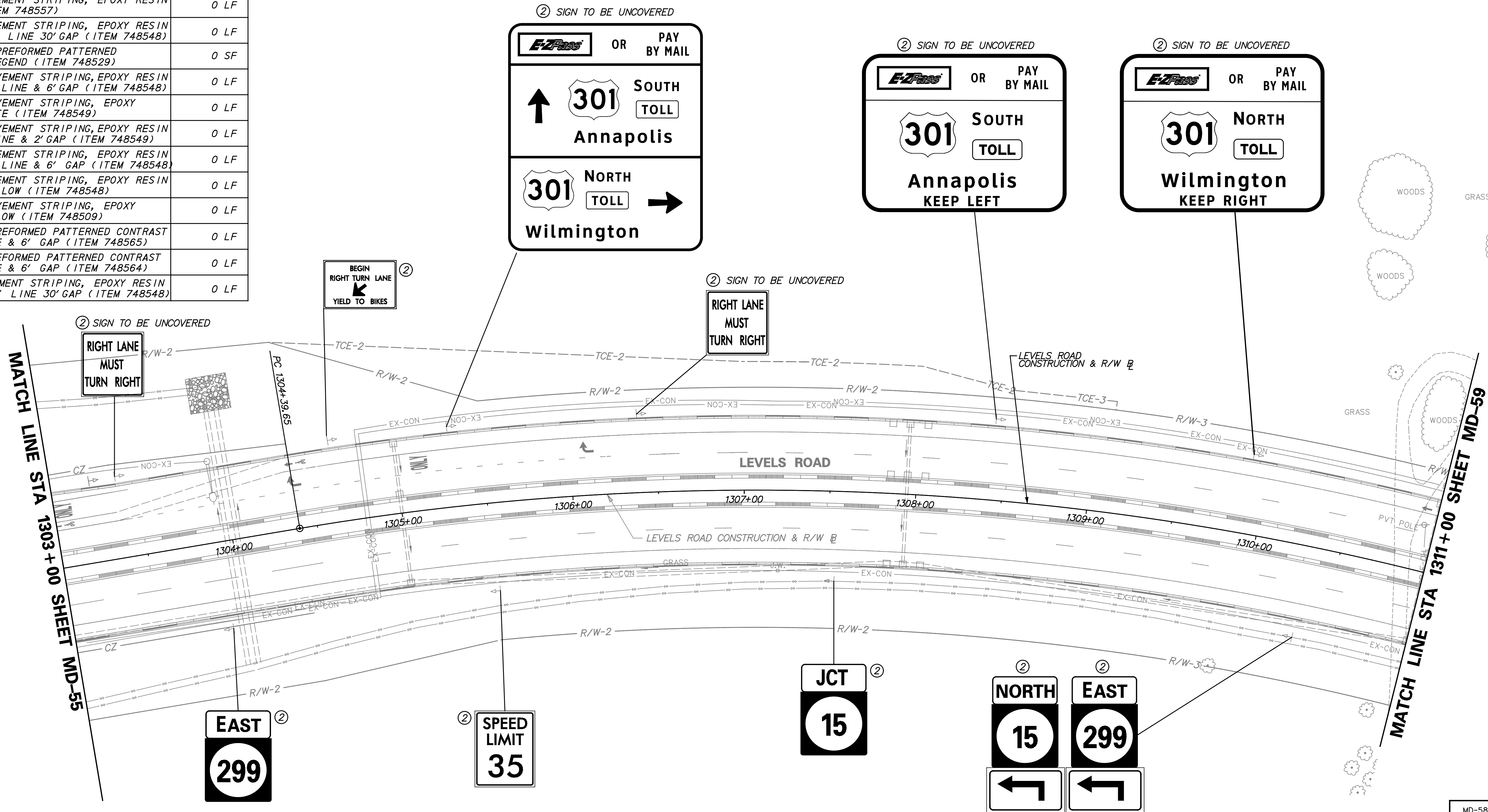
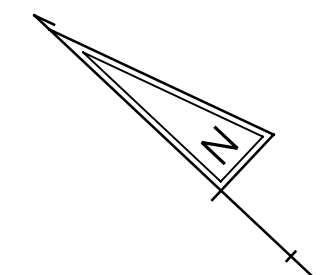
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MGP
NEW CASTLE	CHECKED BY: SKH

SIGNING, STRIPING & CONDUIT PLAN

MD-57
SHEET NO.
1169
TOTAL SHTS.
1256

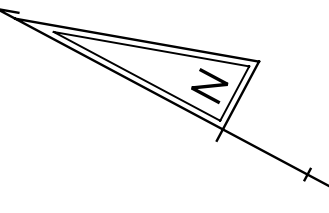
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	0 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	0 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 SF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	0 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	0 LF
(F)	12" SOLID WHITE RETROFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	0 LF
(H)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
(I)	RETROFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 SF
(J)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	0 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	0 LF
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF
(R)	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
(S)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	0 LF

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN



PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	0 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	0 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 SF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	0 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	0 LF
(F)	12' SOLID WHITE RETROFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	0 LF
(H)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
(I)	RETROFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 SF
(J)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	0 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	0 LF
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF
(R)	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
(S)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	0 LF

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

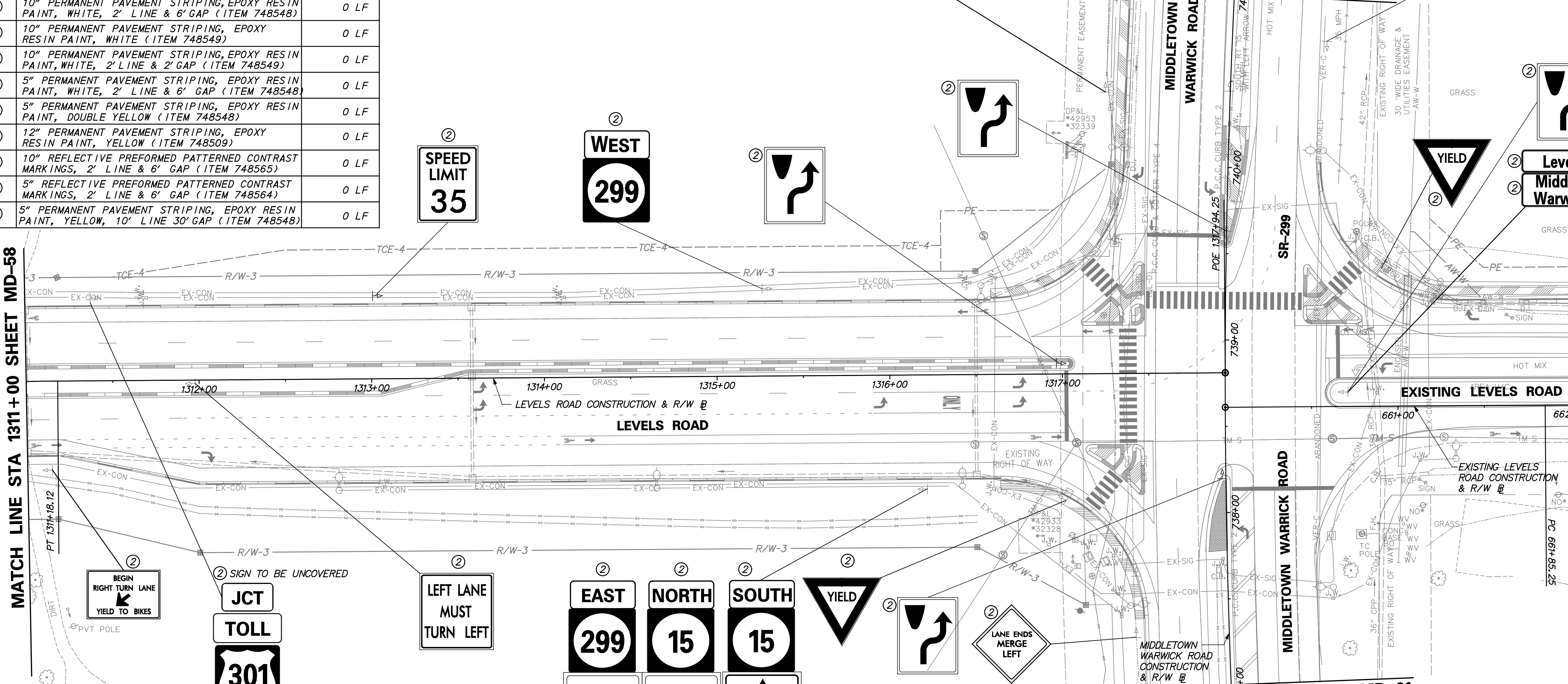


MATCH LINE STA 741+00 SHEET MD-62

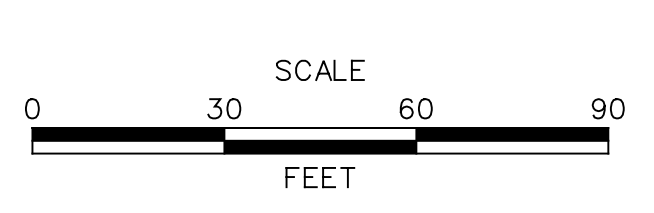
MATCH LINE STA 1311+00 SHEET MD-58

MATCH LINE STA 662+00 SHEET MD-60

MATCH LINE STA 737+00 SHEET MD-61



ADDENDUMS / REVISIONS	



US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT	BRIDGE NO.
T200911303	DESIGNED BY: MAG/TAM
COUNTY	CHECKED BY: PAH
NEW CASTLE	

SIGNING, STRIPING
AND CONDUIT PLAN

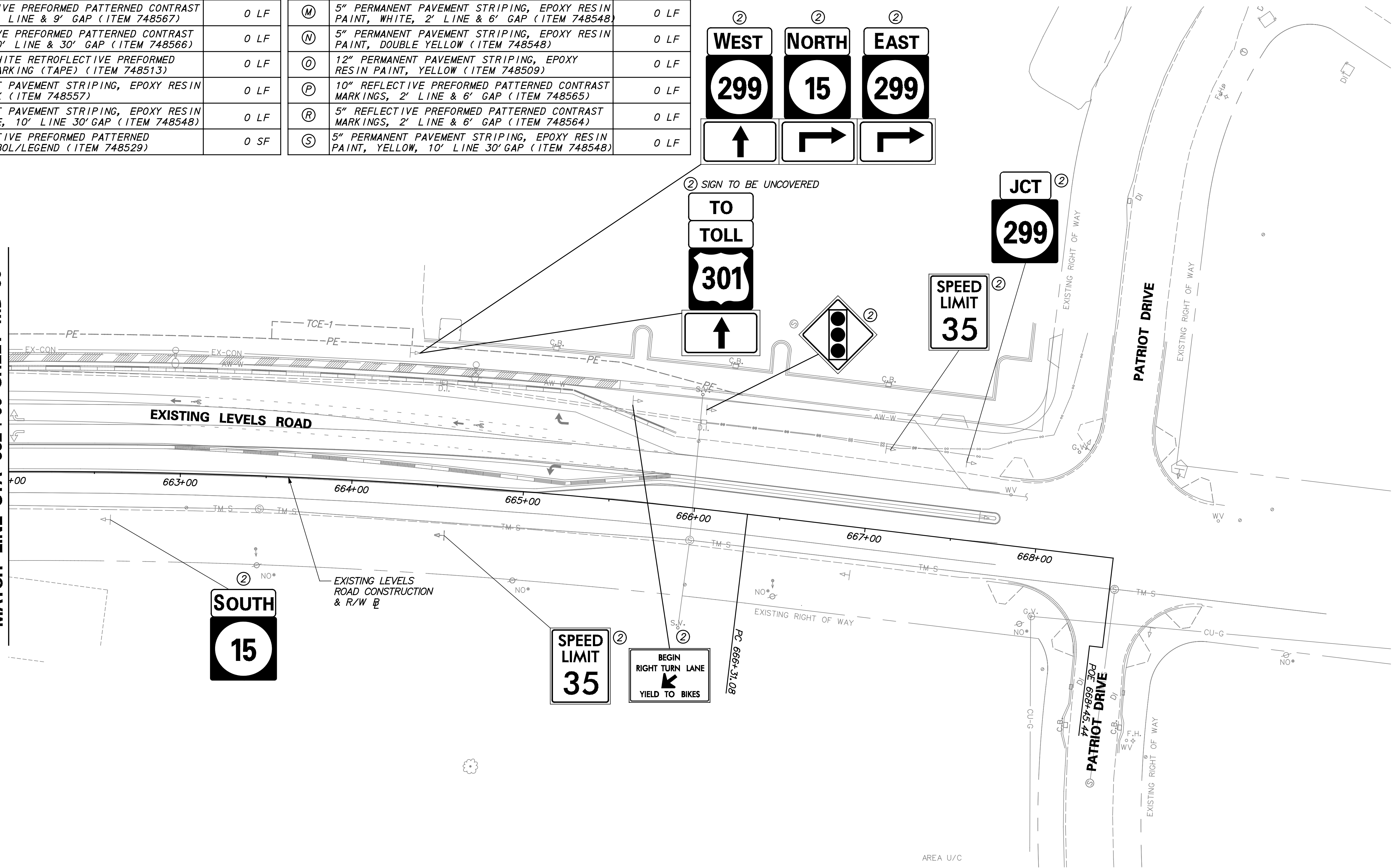
MD-59
SHEET NO.
1171
TOTAL SHTS.
1256

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	0 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	0 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 SF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	0 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	0 LF
(F)	12' SOLID WHITE RETROREFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	0 LF
(H)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
(I)	RETROREFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 SF

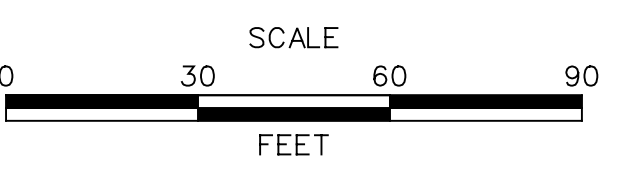
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	0 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	0 LF
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF
(R)	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
(S)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	0 LF

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

MATCH LINE STA 662+00 SHEET MD-59



ADDENDUMS / REVISIONS	

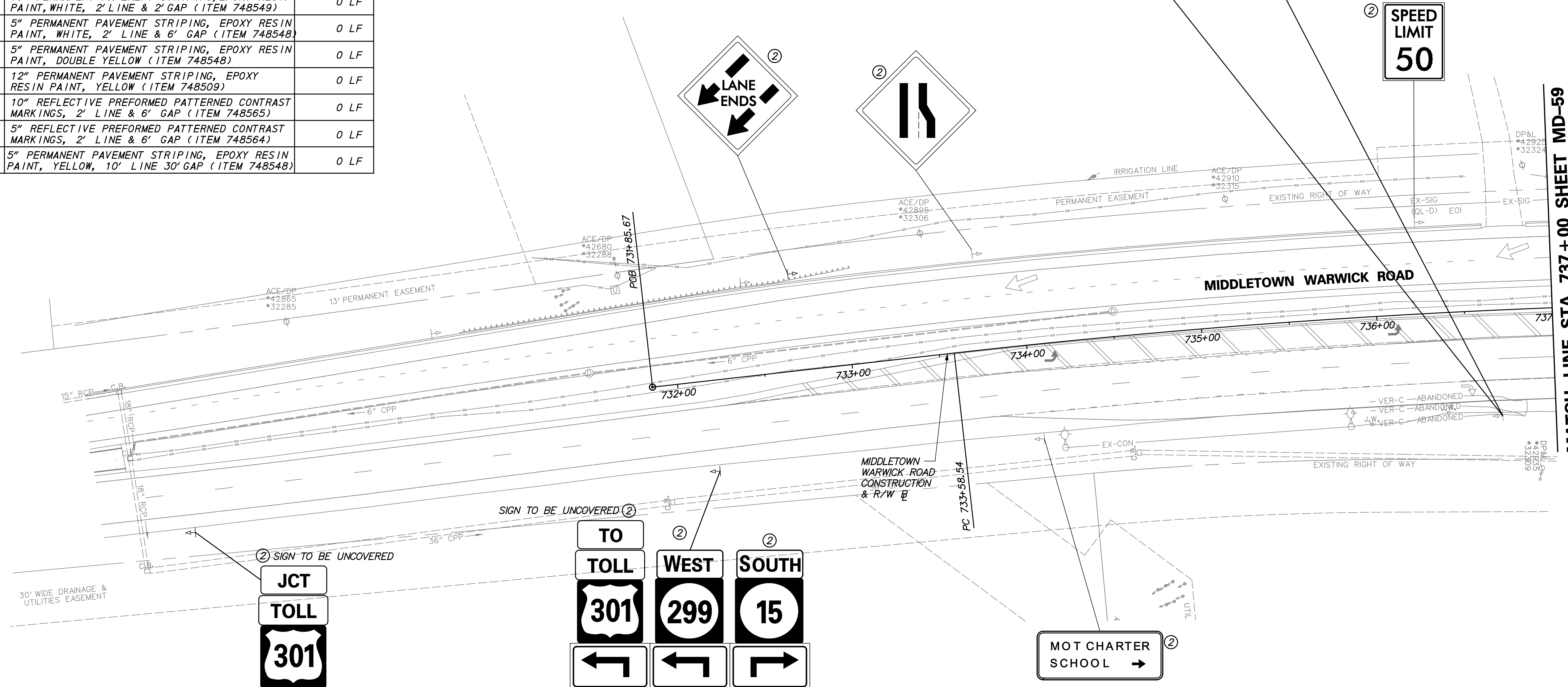
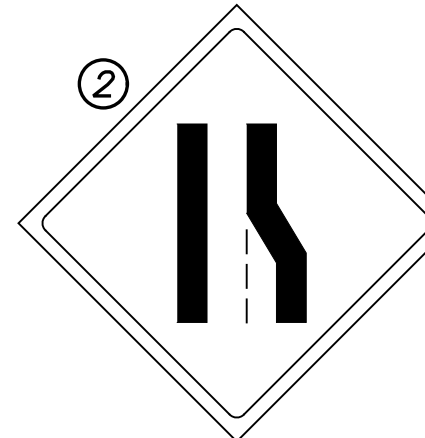
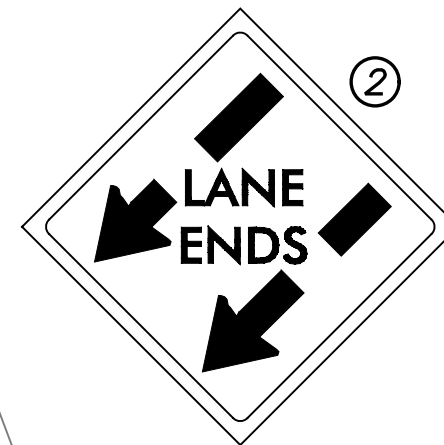
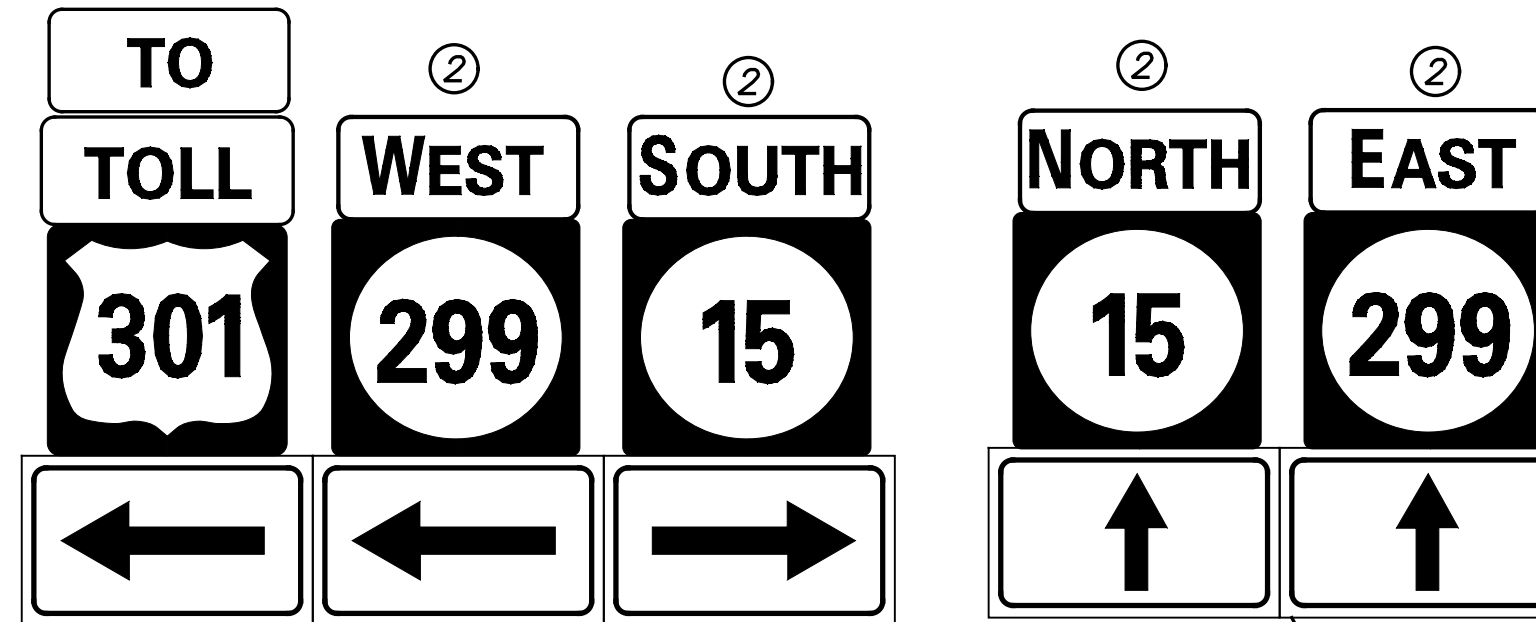


CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MAG/TAM
	CHECKED BY: PAH

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	0 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	0 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 SF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	0 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	0 LF
(F)	12" SOLID WHITE RETROREFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	0 LF
(H)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
(I)	RETROREFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 SF
(J)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	0 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	0 LF
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF
(R)	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
(S)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	0 LF

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

SIGN TO BE UNCOVERED ②

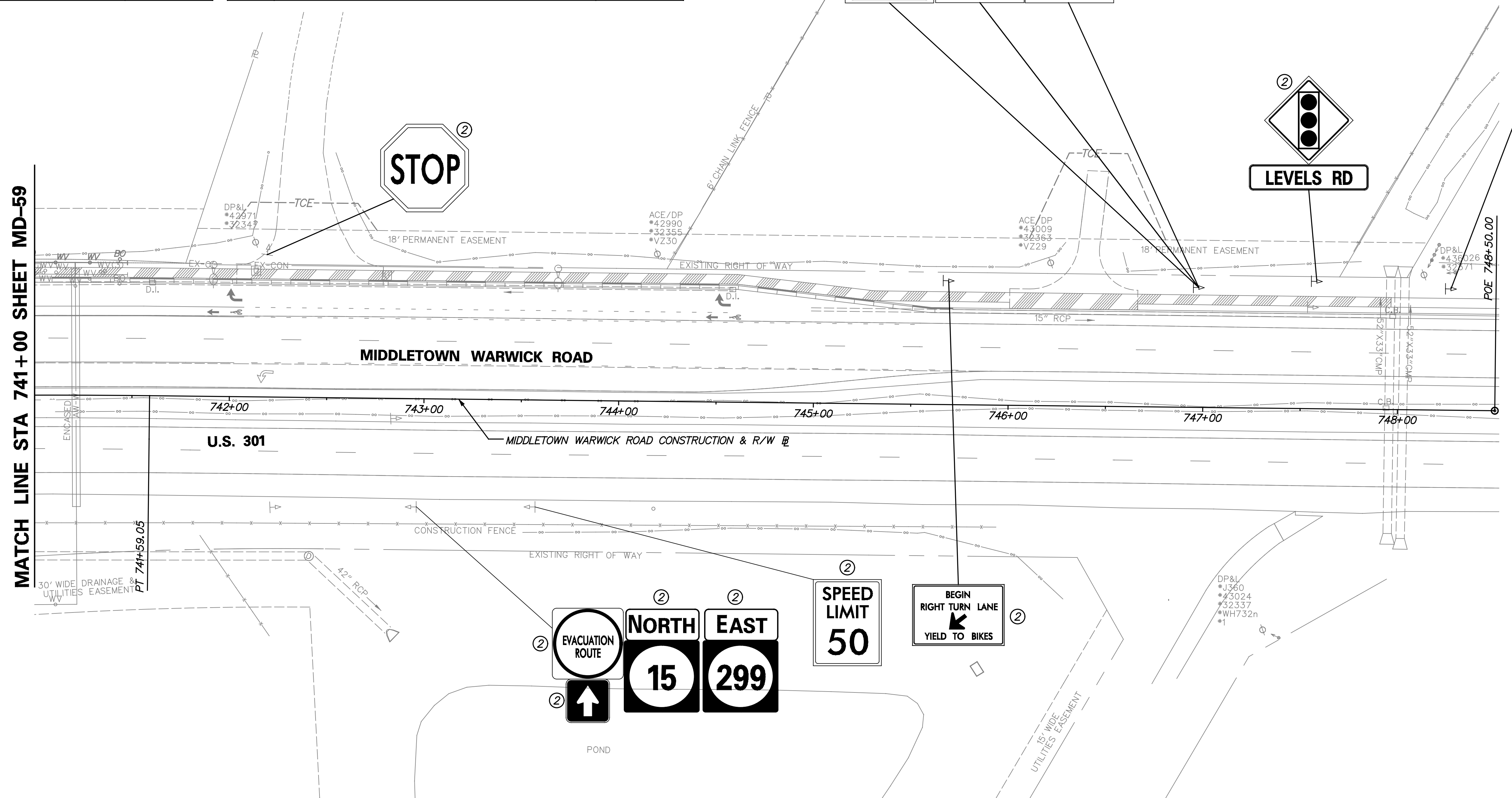


MATCH LINE STA 737+00 SHEET MD-59

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748548)	0 LF
(B)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748548)	0 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD THERMOPLASTIC, WHITE (ITEM 748015)	0 SF
(D)	13" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 3' LINE & 9' GAP (ITEM 748567)	0 LF
(E)	8" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 10' LINE & 30' GAP (ITEM 748566)	0 LF
(F)	12' SOLID WHITE RETROREFLECTIVE PREFORMED PATTERNED MARKING (TAPE) (ITEM 748513)	0 LF
(G)	3" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK (ITEM 748557)	0 LF
(H)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 10' LINE 30' GAP (ITEM 748548)	0 LF
(I)	RETROREFLECTIVE PREFORMED PATTERNED MARKING SYMBOL/LEGEND (ITEM 748529)	0 SF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(K)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE (ITEM 748549)	0 LF
(L)	10" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 2' GAP (ITEM 748549)	0 LF
(M)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(N)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, DOUBLE YELLOW (ITEM 748548)	0 LF
(O)	12" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW (ITEM 748509)	0 LF
(P)	10" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748565)	0 LF
(R)	5" REFLECTIVE PREFORMED PATTERNED CONTRAST MARKINGS, 2' LINE & 6' GAP (ITEM 748564)	0 LF
(S)	5" PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 10' LINE 30' GAP (ITEM 748548)	0 LF

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN



CONSTRUCTION PHASING LEGEND

	TEMPORARY CONSTRUCTION
	PROPOSED CONSTRUCTION THIS PHASE
	EXISTING SIGN/PROPOSED TEMPORARY SIGN
	TYPE III BARRICADE
	PLASTIC DRUM
	TRAFFIC FLOW ARROW
	4" SOLID WHITE PAINT
	4" SOLID YELLOW PAINT
	4" BROKEN WHITE PAINT (10' LINE, 30' GAP)
	4" DOTTED WHITE PAINT (3' LINE, 9' GAP)
	10" SOLID WHITE PAINT
	WHITE PAINT SYMBOL/LEGEND
	PORTABLE P.C.C. SAFETY BARRIER (F SHAPE)
	PORTABLE IMPACT ATTENUATOR
	ARROW PANEL
	REMOVE EXISTING STRIPING BY CONTRACTOR

SEQUENCE OF CONSTRUCTION

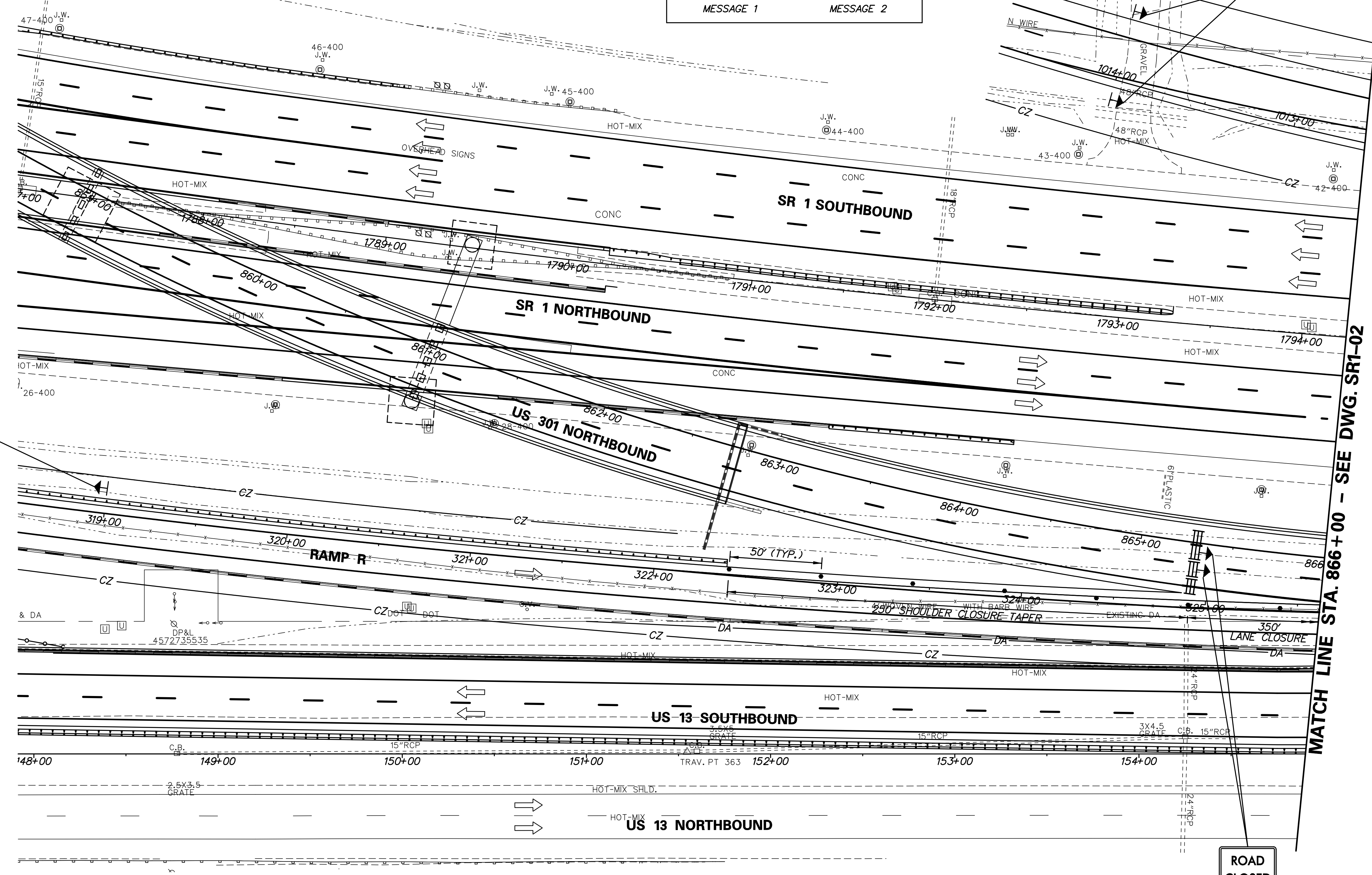
① THE CONTRACT T200911303 CONTRACTOR SHALL MAINTAIN THE TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN INSTALLED BY THE CONTRACT T200911302 CONTRACTOR FOR THE TEMPORARY CLOSURE OF THE US 301 ROADWAY.

② THE CONTRACT T200911303 CONTRACTOR SHALL REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN AND OPEN THE US 301 ROADWAY.

CMS
(SEE NOTE 3)

NO TOLL UNTIL XXXXXX
MESSAGE 1

PROCEED WITH CAUTION
MESSAGE 2



W21-5a
(48" x 48")

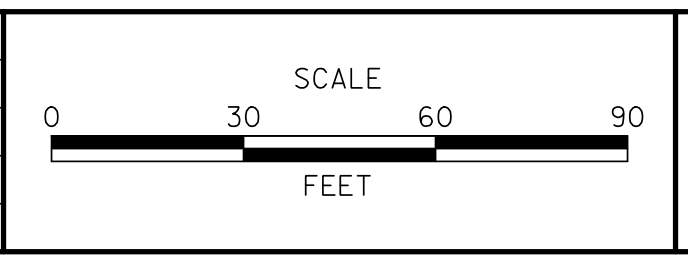
LEFT SHOULDER CLOSED

ROAD CLOSED
(2)R11-2
(48" x 30")

- NOTES:**
- THE CONTRACT T200911302 CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES TO REMAIN IN PLACE AND SERVE TO TEMPORARILY CLOSE THE NEW US 301 ROADWAY UNTIL ITS OFFICIAL OPENING. MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES DURING THE INTERIM CLOSURE PERIOD AND UPON OPENING OF THE US 301 ROADWAY SHALL BE THE RESPONSIBILITY OF THE CONTRACT T200911303 CONTRACTOR.
 - PAYMENT FOR MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES AND SIGN COVERINGS SHOWN ON THIS PLAN BY THE CONTRACT T200911303 CONTRACTOR WILL NOT BE MEASURED AND PAID FOR BUT WILL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC.
 - AT THE TIME THAT THE ENTIRE US 301 MAINLINE FROM THE MARYLAND STATE LINE TO SR 1 IS READY TO BE OPENED TO PUBLIC TRAFFIC, DELDOT MAY DECIDE TO ALLOW PUBLIC USE OF THE US 301 FACILITY FOR A SHORT PERIOD OF TIME BEFORE STARTING TO COLLECT TOLLS. THE DETERMINATION IF THIS TOLL GRACE PERIOD IS TO BE USED AND ITS DURATION WILL BE MADE BY DELDOT. THE CHANGEABLE MESSAGE SIGNS (CMS) SHOWN ON THIS SHEET SHALL BE IMPLEMENTED IF THE TOLL GRACE PERIOD IS USED. DRUMS SHALL BE INSTALLED TO PROTECT THE CMSs IN ACCORDANCE WITH PART 6 OF THE DELAWARE MUTCD. THE CMSs AND DRUMS PROTECTING THE CMSs SHALL BE FURNISHED AND INSTALLED BY THE CONTRACT T200911303 CONTRACTOR.

MATCH LINE STA. 866+00 - SEE DWG. SR1-02

ADDENDUMS / REVISIONS	



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	T200911303
COUNTY	NEW CASTLE
BRIDGE NO.	
DESIGNED BY:	J.D.C.
CHECKED BY:	J.D.C.

TEMPORARY US 301 CLOSURE - SECTION 1

SR1-01
SHEET NO.
1175
TOTAL SHTS.
1256

SEQUENCE OF CONSTRUCTION

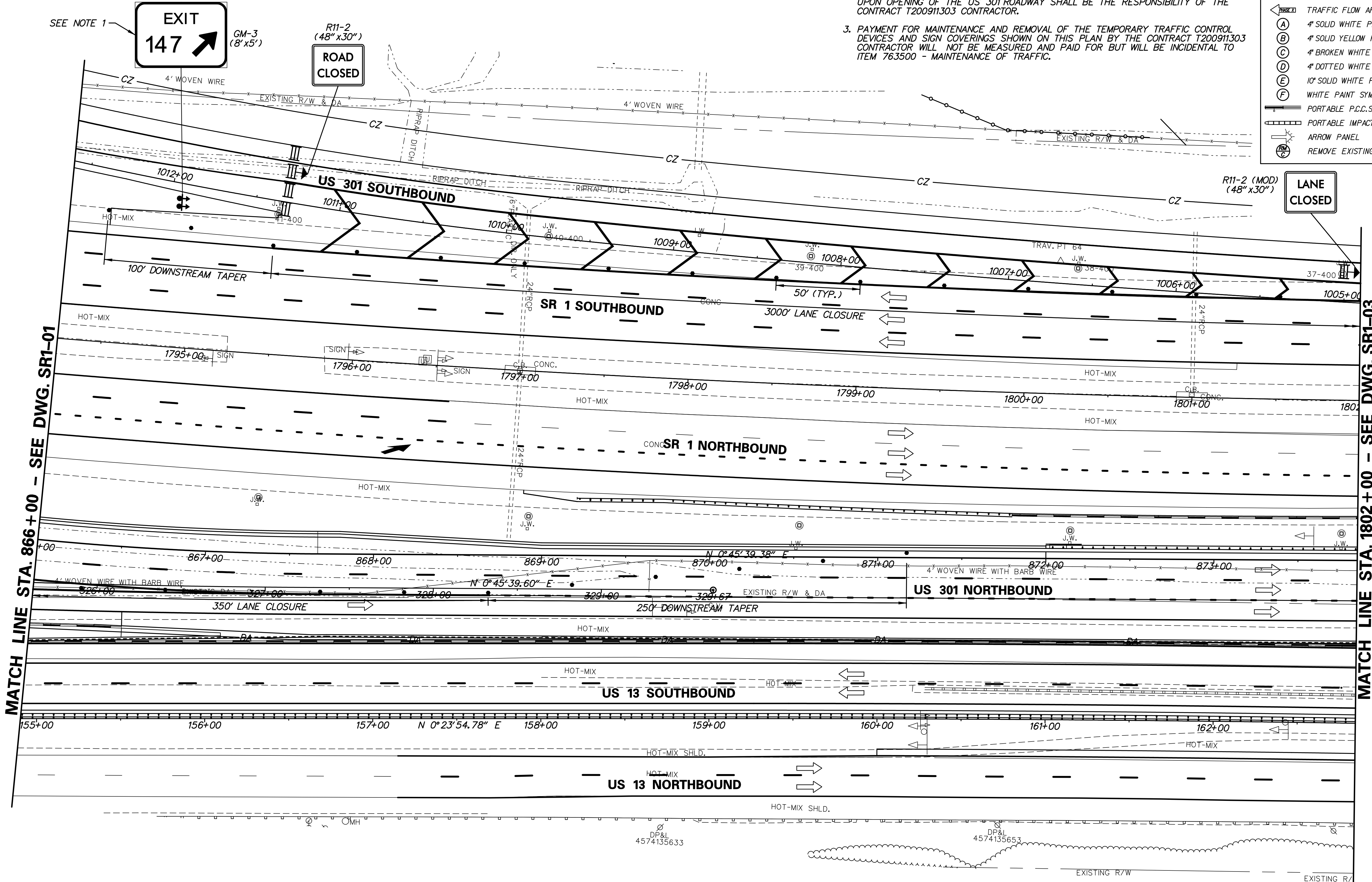
- ① THE CONTRACT T200911303 CONTRACTOR SHALL MAINTAIN THE TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN INSTALLED BY THE CONTRACT T200911302 CONTRACTOR FOR THE TEMPORARY CLOSURE OF THE US 301 ROADWAY.
- ② THE CONTRACT T200911303 CONTRACTOR SHALL REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN AND OPEN THE US 301 ROADWAY.

NOTES:

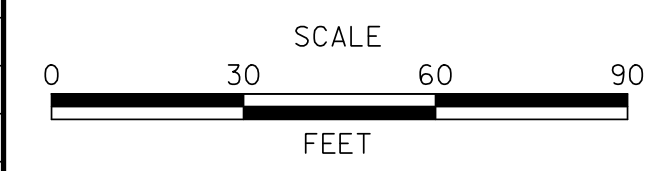
1. CONTRACT T200911302 CONTRACTOR SHALL COVER SIGN WITH OPAQUE MATERIAL AFTER INSTALLATION OF SIGN AND LEAVE SIGN COVERED. CONTRACT T200911303 CONTRACTOR SHALL REMOVE SIGN COVERING UPON OPENING OF US 301 ROADWAY.
2. THE CONTRACT T200911302 CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES TO REMAIN IN PLACE AND SERVE TO TEMPORARILY CLOSE THE NEW US 301 ROADWAY UNTIL ITS OFFICIAL OPENING. MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES DURING THE INTERIM CLOSURE PERIOD AND UPON OPENING OF THE US 301 ROADWAY SHALL BE THE RESPONSIBILITY OF THE CONTRACT T200911303 CONTRACTOR.
3. PAYMENT FOR MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES AND SIGN COVERINGS SHOWN ON THIS PLAN BY THE CONTRACT T200911303 CONTRACTOR WILL NOT BE MEASURED AND PAID FOR BUT WILL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC.

CONSTRUCTION PHASING LEGEND

- TEMPORARY CONSTRUCTION
- PROPOSED CONSTRUCTION THIS PHASE
- EXISTING SIGN/PROPOSED TEMPORARY SIGN
- TYPE III BARRICADE
- PLASTIC DRUM
- TRAFFIC FLOW ARROW
- 4" SOLID WHITE PAINT
- 4" SOLID YELLOW PAINT
- 4" BROKEN WHITE PAINT (10' LINE, 30' GAP)
- 4" DOTTED WHITE PAINT (3' LINE, 9' GAP)
- 10" SOLID WHITE PAINT
- WHITE PAINT SYMBOL/LEGEND
- PORTABLE P.C.C. SAFETY BARRIER (IF SHAPE)
- PORTABLE IMPACT ATTENUATOR
- ARROW PANEL
- REMOVE EXISTING STRIPING BY CONTRACTOR



ADDENDUMS / REVISIONS	



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: J.D.C.
NEW CASTLE	CHECKED BY: J.D.C.

TEMPORARY US 301 CLOSURE - SECTION 1

SR1-02
SHEET NO.
1176
TOTAL SHTS.
1256

NOTES:

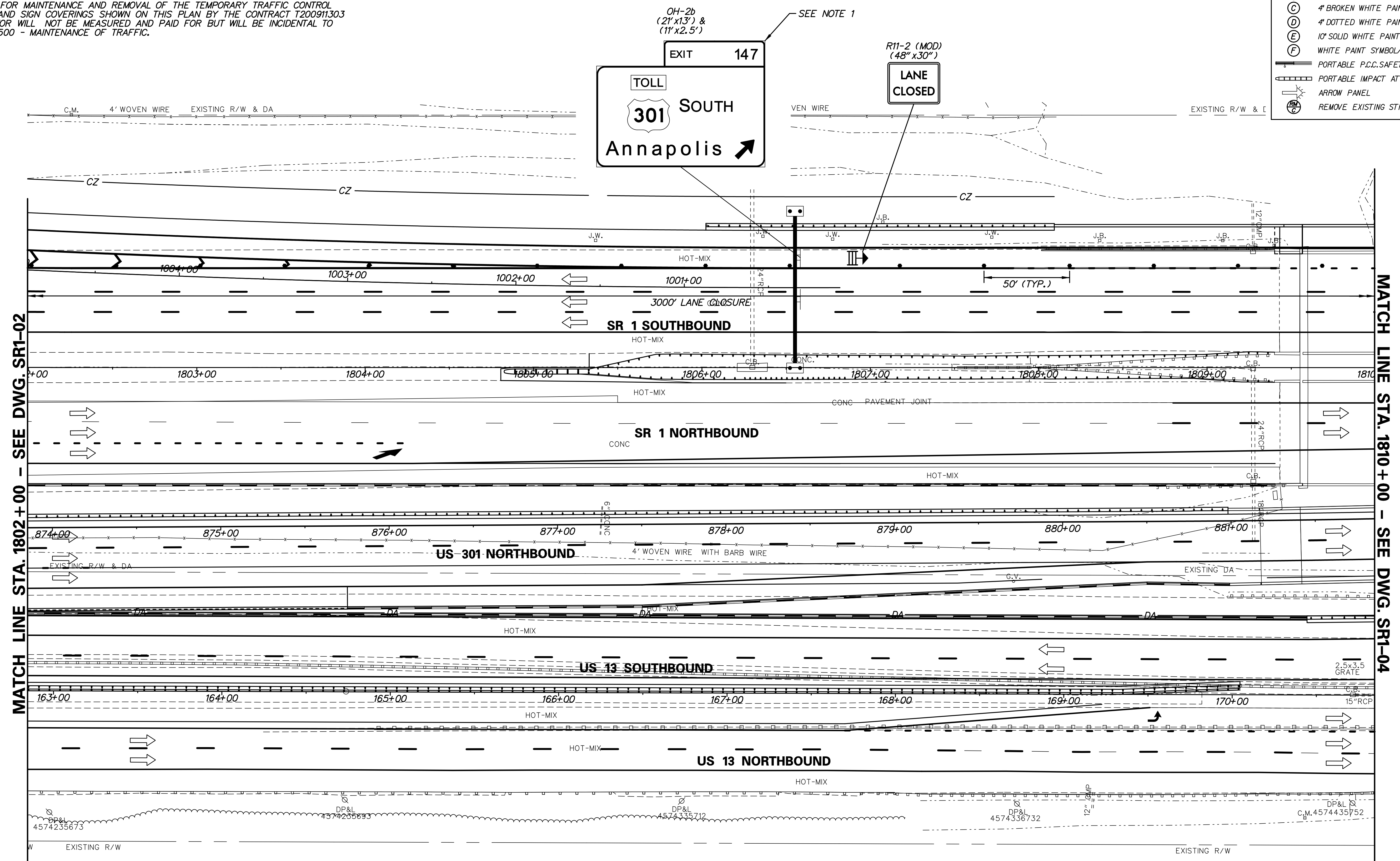
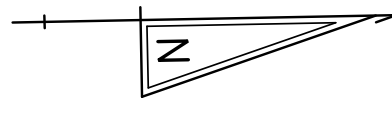
1. CONTRACT T200911302 CONTRACTOR SHALL COVER SIGN WITH OPAQUE MATERIAL AFTER INSTALLATION OF SIGN AND LEAVE SIGN COVERED. CONTRACT T200911303 CONTRACTOR SHALL REMOVE SIGN COVERING UPON OPENING OF US 301 ROADWAY.
2. THE CONTRACT T200911302 CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES TO REMAIN IN PLACE AND SERVE TO TEMPORARILY CLOSE THE NEW US 301 ROADWAY UNTIL ITS OFFICIAL OPENING. MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES DURING THE INTERIM CLOSURE PERIOD AND UPON OPENING OF THE US 301 ROADWAY SHALL BE THE RESPONSIBILITY OF THE CONTRACT T200911303 CONTRACTOR.
3. PAYMENT FOR MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES AND SIGN COVERINGS SHOWN ON THIS PLAN BY THE CONTRACT T200911303 CONTRACTOR WILL NOT BE MEASURED AND PAID FOR BUT WILL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC.

SEQUENCE OF CONSTRUCTION

- 1 THE CONTRACT T200911303 CONTRACTOR SHALL MAINTAIN THE TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN INSTALLED BY THE CONTRACT T200911302 CONTRACTOR FOR THE TEMPORARY CLOSURE OF THE US 301 ROADWAY.
- 2 THE CONTRACT T200911303 CONTRACTOR SHALL REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN AND OPEN THE US 301 ROADWAY.

CONSTRUCTION PHASING LEGEND

	TEMPORARY CONSTRUCTION
	PROPOSED CONSTRUCTION THIS PHASE
	EXISTING SIGN/PROPOSED TEMPORARY SIGN
	TYPE III BARRICADE
	PLASTIC DRUM
	TRAFFIC FLOW ARROW
	4" SOLID WHITE PAINT
	4" SOLID YELLOW PAINT
	4" BROKEN WHITE PAINT (10' LINE, 30' GAP)
	4" DOTTED WHITE PAINT (3' LINE, 9' GAP)
	10" SOLID WHITE PAINT
	WHITE PAINT SYMBOL/LEGEND
	PORTABLE P.C.C. SAFETY BARRIER (IF SHAPE)
	PORTABLE IMPACT ATTENUATOR
	ARROW PANEL
	REMOVE EXISTING STRIPING BY CONTRACTOR

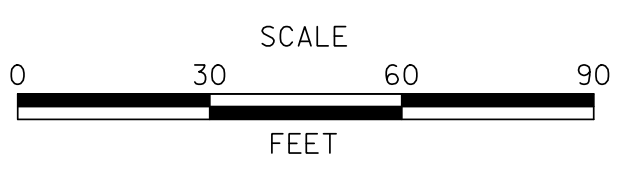


MATCH LINE STA. 1802+00 - SEE DWG. SR1-02

MATCH LINE STA. 1810+00 - SEE DWG. SR1-04



ADDENDUMS / REVISIONS	



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: J.D.C.
NEW CASTLE	CHECKED BY: J.D.C.

TEMPORARY US 301 CLOSURE - SECTION 1

SR1-03
SHEET NO.
1177
TOTAL SHTS.
1256

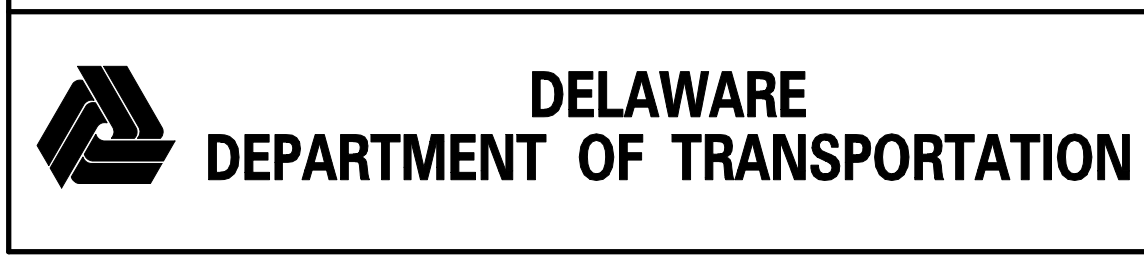
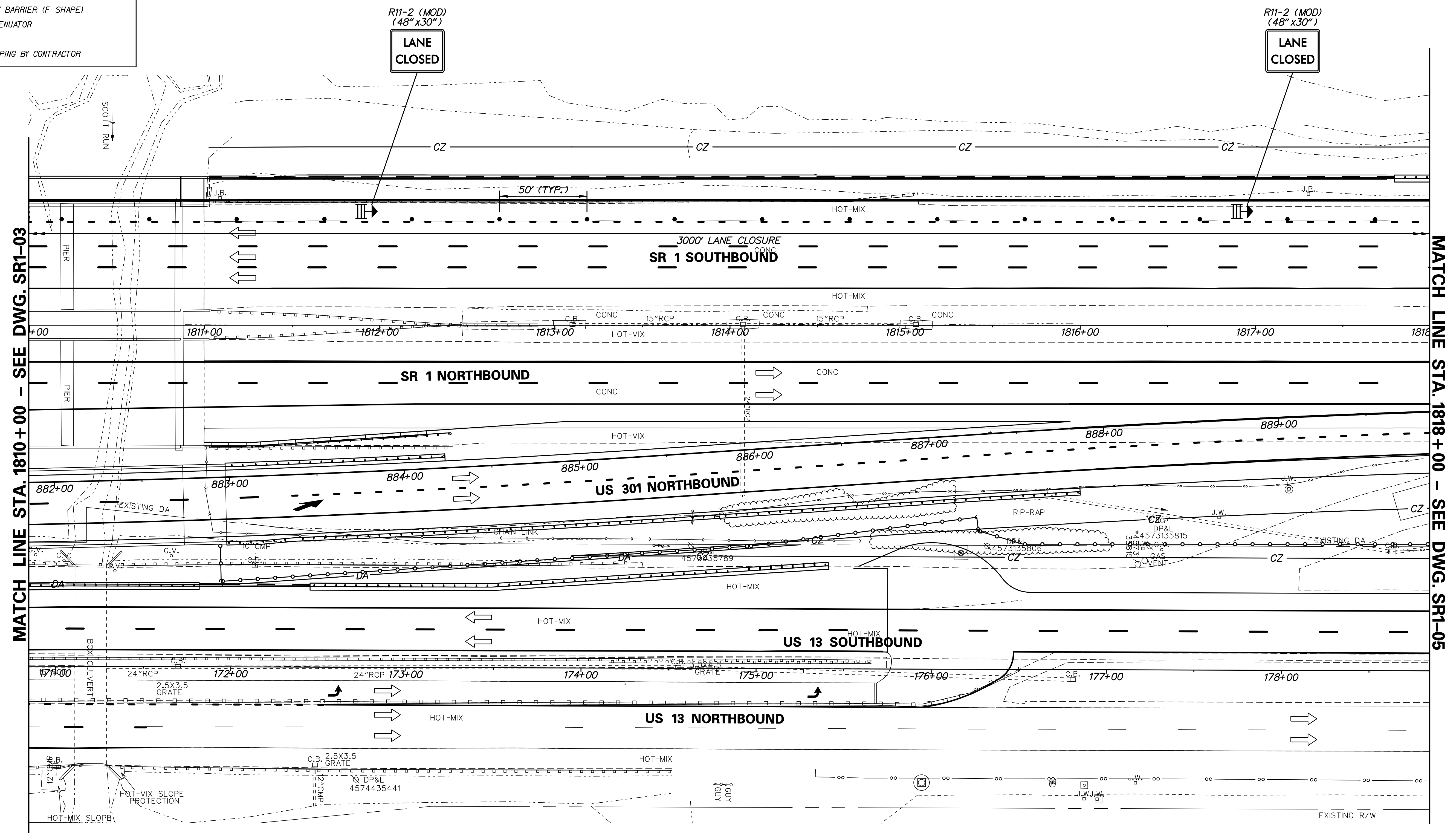
CONSTRUCTION PHASING LEGEND	
	TEMPORARY CONSTRUCTION
	PROPOSED CONSTRUCTION THIS PHASE
	EXISTING SIGN/PROPOSED TEMPORARY SIGN
	TYPE III BARRICADE
	PLASTIC DRUM
	TRAFFIC FLOW ARROW
	4" SOLID WHITE PAINT
	4" SOLID YELLOW PAINT
	4" BROKEN WHITE PAINT (10' LINE, 30' GAP)
	4" DOTTED WHITE PAINT (3' LINE, 9' GAP)
	10" SOLID WHITE PAINT
	WHITE PAINT SYMBOL/LEGEND
	PORTABLE P.C.C. SAFETY BARRIER (F SHAPE)
	PORTABLE IMPACT ATTENUATOR
	ARROW PANEL
	REMOVE EXISTING STRIPING BY CONTRACTOR

NOTES:

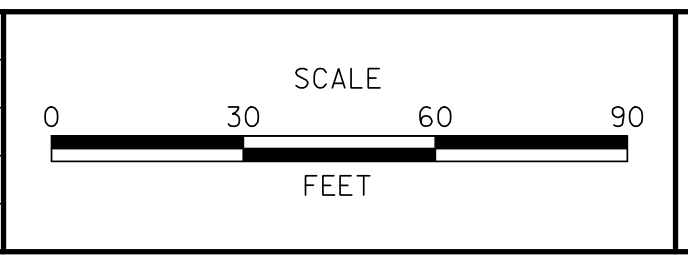
- THE CONTRACT T200911302 CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES TO REMAIN IN PLACE AND SERVE TO TEMPORARILY CLOSE THE NEW US 301 ROADWAY UNTIL ITS OFFICIAL OPENING. MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES DURING THE INTERIM CLOSURE PERIOD AND UPON OPENING OF THE US 301 ROADWAY SHALL BE THE RESPONSIBILITY OF THE CONTRACT T200911303 CONTRACTOR.
- PAYMENT FOR MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES AND SIGN COVERINGS SHOWN ON THIS PLAN BY THE CONTRACT T200911303 CONTRACTOR WILL NOT BE MEASURED AND PAID FOR BUT WILL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC.

SEQUENCE OF CONSTRUCTION

- THE CONTRACT T200911303 CONTRACTOR SHALL MAINTAIN THE TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN INSTALLED BY THE CONTRACT T200911302 CONTRACTOR FOR THE TEMPORARY CLOSURE OF THE US 301 ROADWAY.
- THE CONTRACT T200911303 CONTRACTOR SHALL REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN AND OPEN THE US 301 ROADWAY.



ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	T200911303
COUNTY	NEW CASTLE
BRIDGE NO.	
DESIGNED BY:	J.D.C.
CHECKED BY:	J.D.C.

TEMPORARY US 301 CLOSURE - SECTION 1

SR1-04
SHEET NO.
1178
TOTAL SHTS.
1256

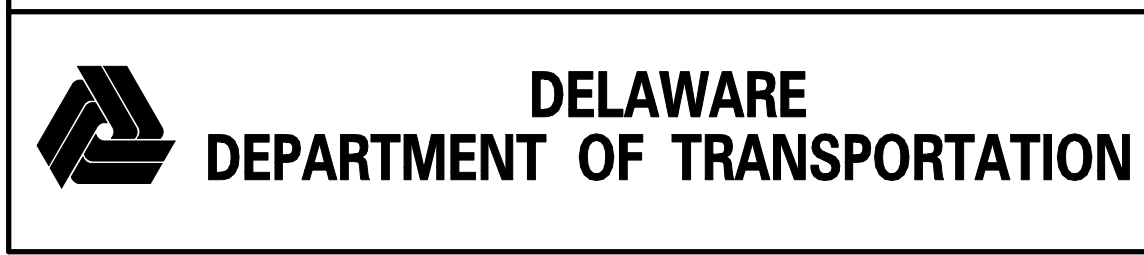
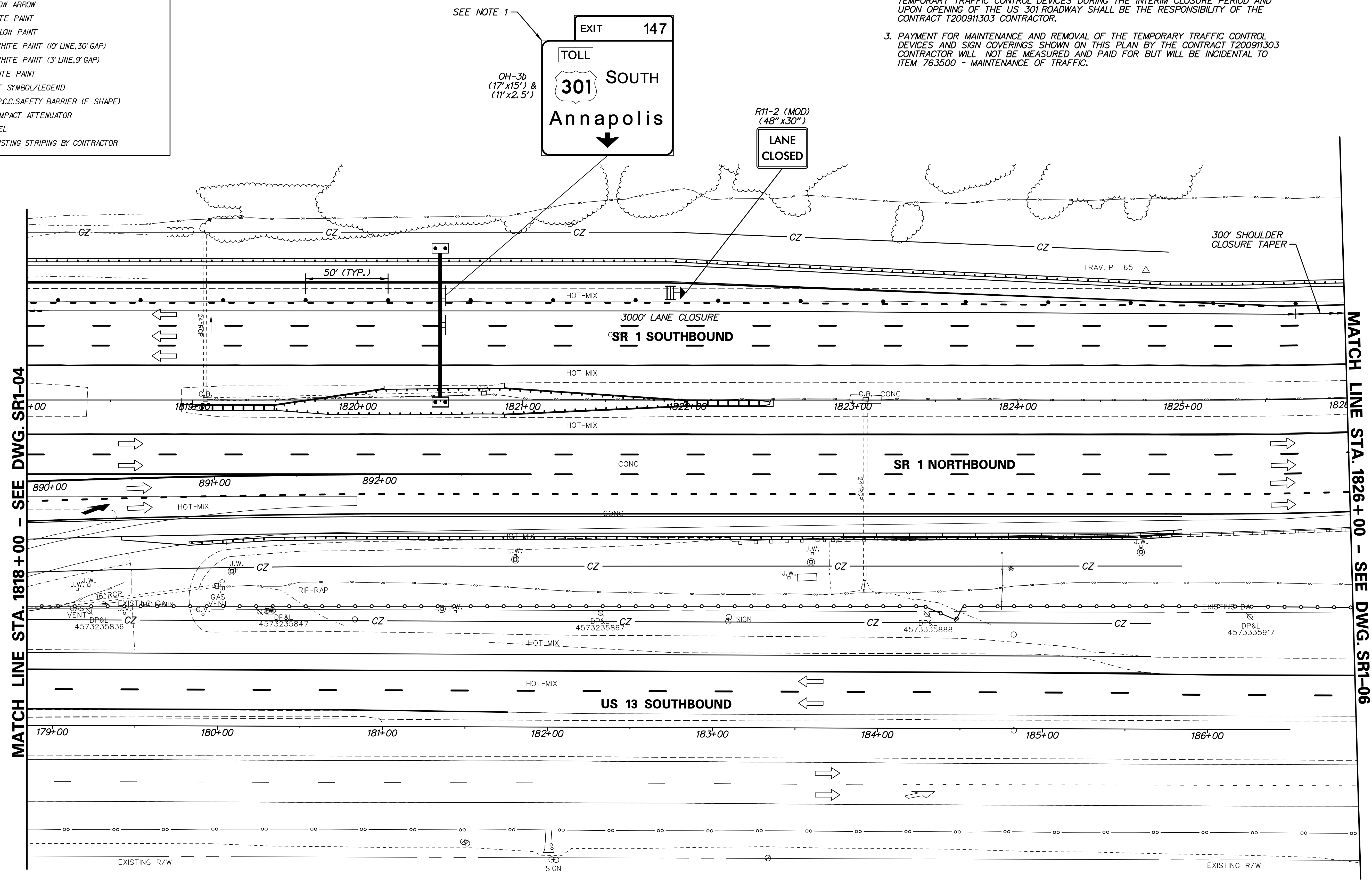
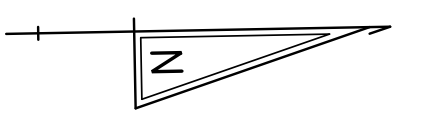
CONSTRUCTION PHASING LEGEND	
	TEMPORARY CONSTRUCTION
	PROPOSED CONSTRUCTION THIS PHASE
	EXISTING SIGN/PROPOSED TEMPORARY SIGN
	TYPE III BARRICADE
	PLASTIC DRUM
	TRAFFIC FLOW ARROW
	4" SOLID WHITE PAINT
	4" SOLID YELLOW PAINT
	4" BROKEN WHITE PAINT (10' LINE, 30' GAP)
	4" DOTTED WHITE PAINT (3' LINE, 9' GAP)
	10" SOLID WHITE PAINT
	WHITE PAINT SYMBOL/LEGEND
	PORTABLE P.C.C. SAFETY BARRIER (F SHAPE)
	PORTABLE IMPACT ATTENUATOR
	ARROW PANEL
	REMOVE EXISTING STRIPING BY CONTRACTOR

SEQUENCE OF CONSTRUCTION

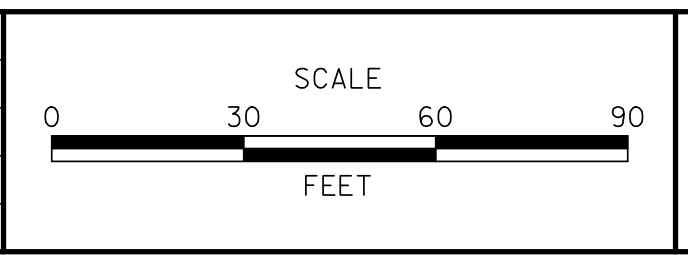
① THE CONTRACT T200911303 CONTRACTOR SHALL MAINTAIN THE TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN INSTALLED BY THE CONTRACT T200911302 CONTRACTOR FOR THE TEMPORARY CLOSURE OF THE US 301 ROADWAY.

② THE CONTRACT T200911303 CONTRACTOR SHALL REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN AND OPEN THE US 301 ROADWAY.

- NOTES:**
- CONTRACT T200911302 CONTRACTOR SHALL COVER SIGN WITH OPAQUE MATERIAL AFTER INSTALLATION OF SIGN AND LEAVE SIGN COVERED. CONTRACT T200911303 CONTRACTOR SHALL REMOVE SIGN COVERING UPON OPENING OF US 301 ROADWAY.
 - THE CONTRACT T200911302 CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES TO REMAIN IN PLACE AND SERVE TO TEMPORARILY CLOSE THE NEW US 301 ROADWAY UNTIL ITS OFFICIAL OPENING. MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES DURING THE INTERIM CLOSURE PERIOD AND UPON OPENING OF THE US 301 ROADWAY SHALL BE THE RESPONSIBILITY OF THE CONTRACT T200911303 CONTRACTOR.
 - PAYMENT FOR MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES AND SIGN COVERINGS SHOWN ON THIS PLAN BY THE CONTRACT T200911303 CONTRACTOR WILL NOT BE MEASURED AND PAID FOR BUT WILL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC.



ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: J.D.C.
NEW CASTLE	CHECKED BY: J.D.C.

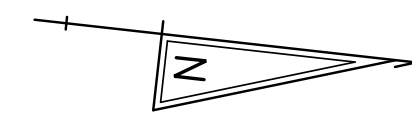
**TEMPORARY US 301
CLOSURE - SECTION 1**

SR1-05
SHEET NO.
1179
TOTAL SHTS.
1256

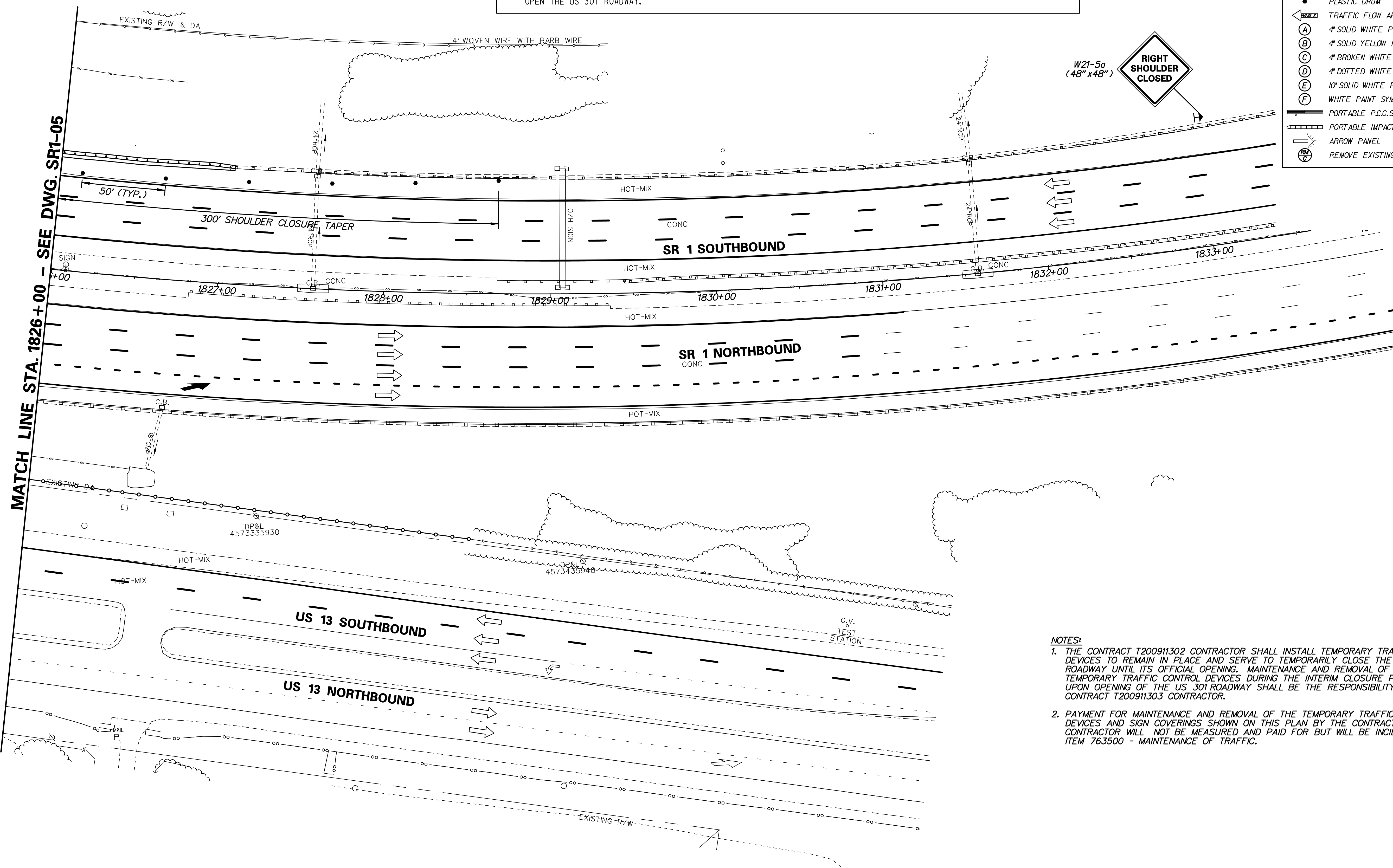
SEQUENCE OF CONSTRUCTION

① THE CONTRACT T200911303 CONTRACTOR SHALL MAINTAIN THE TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN INSTALLED BY THE CONTRACT T200911302 CONTRACTOR FOR THE TEMPORARY CLOSURE OF THE US 301 ROADWAY.

② THE CONTRACT T200911303 CONTRACTOR SHALL REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN AND OPEN THE US 301 ROADWAY.



CONSTRUCTION PHASING LEGEND	
	TEMPORARY CONSTRUCTION
	PROPOSED CONSTRUCTION THIS PHASE
	EXISTING SIGN/PROPOSED TEMPORARY SIGN
	TYPE III BARRICADE
	PLASTIC DRUM
	TRAFFIC FLOW ARROW
	4" SOLID WHITE PAINT
	4" SOLID YELLOW PAINT
	4" BROKEN WHITE PAINT (10' LINE, 30' GAP)
	4" DOTTED WHITE PAINT (3' LINE, 9' GAP)
	10" SOLID WHITE PAINT
	WHITE PAINT SYMBOL/LEGEND
	PORTABLE P.C.C. SAFETY BARRIER (F SHAPE)
	PORTABLE IMPACT ATTENUATOR
	ARROW PANEL
	REMOVE EXISTING STRIPING BY CONTRACTOR

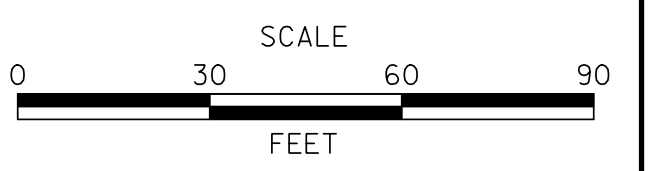


NOTES:

- THE CONTRACT T200911302 CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES TO REMAIN IN PLACE AND SERVE TO TEMPORARILY CLOSE THE NEW US 301 ROADWAY UNTIL ITS OFFICIAL OPENING. MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES DURING THE INTERIM CLOSURE PERIOD AND UPON OPENING OF THE US 301 ROADWAY SHALL BE THE RESPONSIBILITY OF THE CONTRACT T200911303 CONTRACTOR.
- PAYMENT FOR MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES AND SIGN COVERINGS SHOWN ON THIS PLAN BY THE CONTRACT T200911303 CONTRACTOR WILL NOT BE MEASURED AND PAID FOR BUT WILL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC.



ADDENDUMS / REVISIONS	



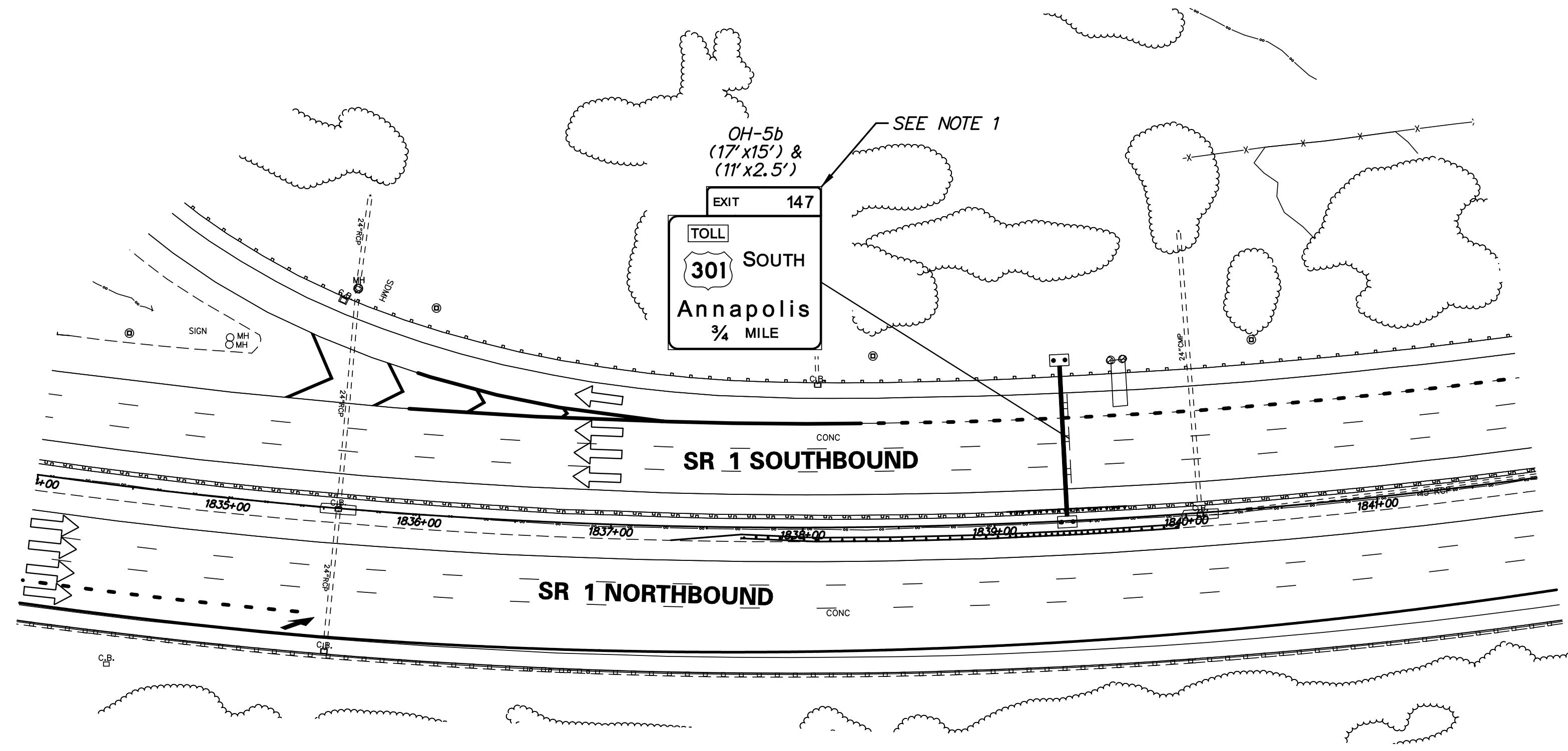
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	J.D.C.
COUNTY	CHECKED BY:	J.D.C.
NEW CASTLE		

**TEMPORARY US 301
CLOSURE - SECTION 1**

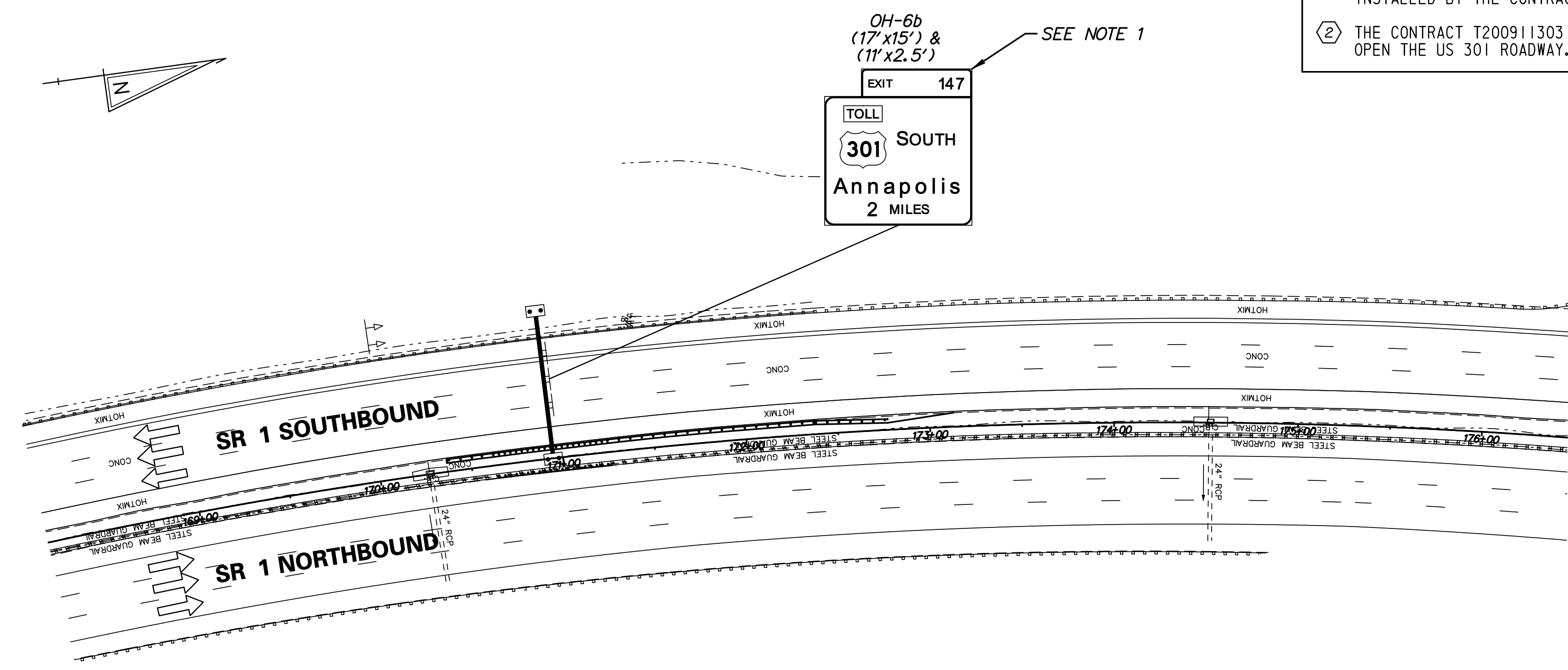
SR1-06
SHEET NO.
1180
TOTAL SHTS.
1256

CONSTRUCTION PHASING LEGEND	
	TEMPORARY CONSTRUCTION
	PROPOSED CONSTRUCTION THIS PHASE
	EXISTING SIGN/PROPOSED TEMPORARY SIGN
	TYPE III BARRICADE
	PLASTIC DRUM
	TRAFFIC FLOW ARROW
	4" SOLID WHITE PAINT
	4" SOLID YELLOW PAINT
	4" BROKEN WHITE PAINT (10' LINE, 30' GAP)
	4" DOTTED WHITE PAINT (3' LINE, 9' GAP)
	10" SOLID WHITE PAINT
	WHITE PAINT SYMBOL/LEGEND
	PORTABLE P.C.C. SAFETY BARRIER (F SHAPE)
	PORTABLE IMPACT ATTENUATOR
	ARROW PANEL
	REMOVE EXISTING STRIPING BY CONTRACTOR

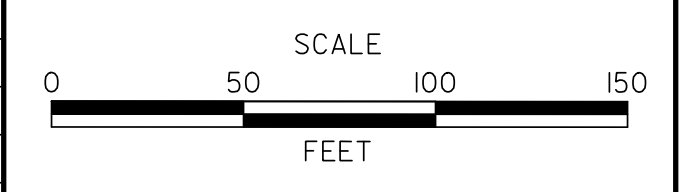


- NOTES:**
- CONTRACT T200911302 CONTRACTOR SHALL COVER SIGN WITH OPAQUE MATERIAL AFTER INSTALLATION OF SIGN AND LEAVE SIGN COVERED AT COMPLETION OF CONTRACT. CONTRACT T200911303 CONTRACTOR SHALL REMOVE SIGN COVERING UPON OPENING OF US 301 ROADWAY.
 - THE CONTRACT T200911302 CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES TO REMAIN IN PLACE AND SERVE TO TEMPORARILY CLOSE THE NEW US 301 ROADWAY UNTIL ITS OFFICIAL OPENING. MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES DURING THE INTERIM CLOSURE PERIOD AND UPON OPENING OF THE US 301 ROADWAY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACT T200911303 CONTRACTOR.
 - PAYMENT FOR MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES AND SIGN COVERINGS SHOWN ON THIS PLAN BY THE CONTRACT T200911303 CONTRACTOR WILL NOT BE MEASURED AND PAID FOR BUT WILL BE INCIDENTAL TO ITEM 76.3500 - MAINTENANCE OF TRAFFIC.

- SEQUENCE OF CONSTRUCTION
- THE CONTRACT T200911303 CONTRACTOR SHALL MAINTAIN THE TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN INSTALLED BY THE CONTRACT T200911302 CONTRACTOR FOR THE TEMPORARY CLOSURE OF THE US 301 ROADWAY.
 - THE CONTRACT T200911303 CONTRACTOR SHALL REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN AND OPEN THE US 301 ROADWAY.



ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	J.D.C.
COUNTY	CHECKED BY:	J.D.C.
NEW CASTLE		

**TEMPORARY US 301
CLOSURE - SECTION 1**

SR1-07
SHEET NO.
1181
TOTAL SHTS.
1256

SEQUENCE OF CONSTRUCTION

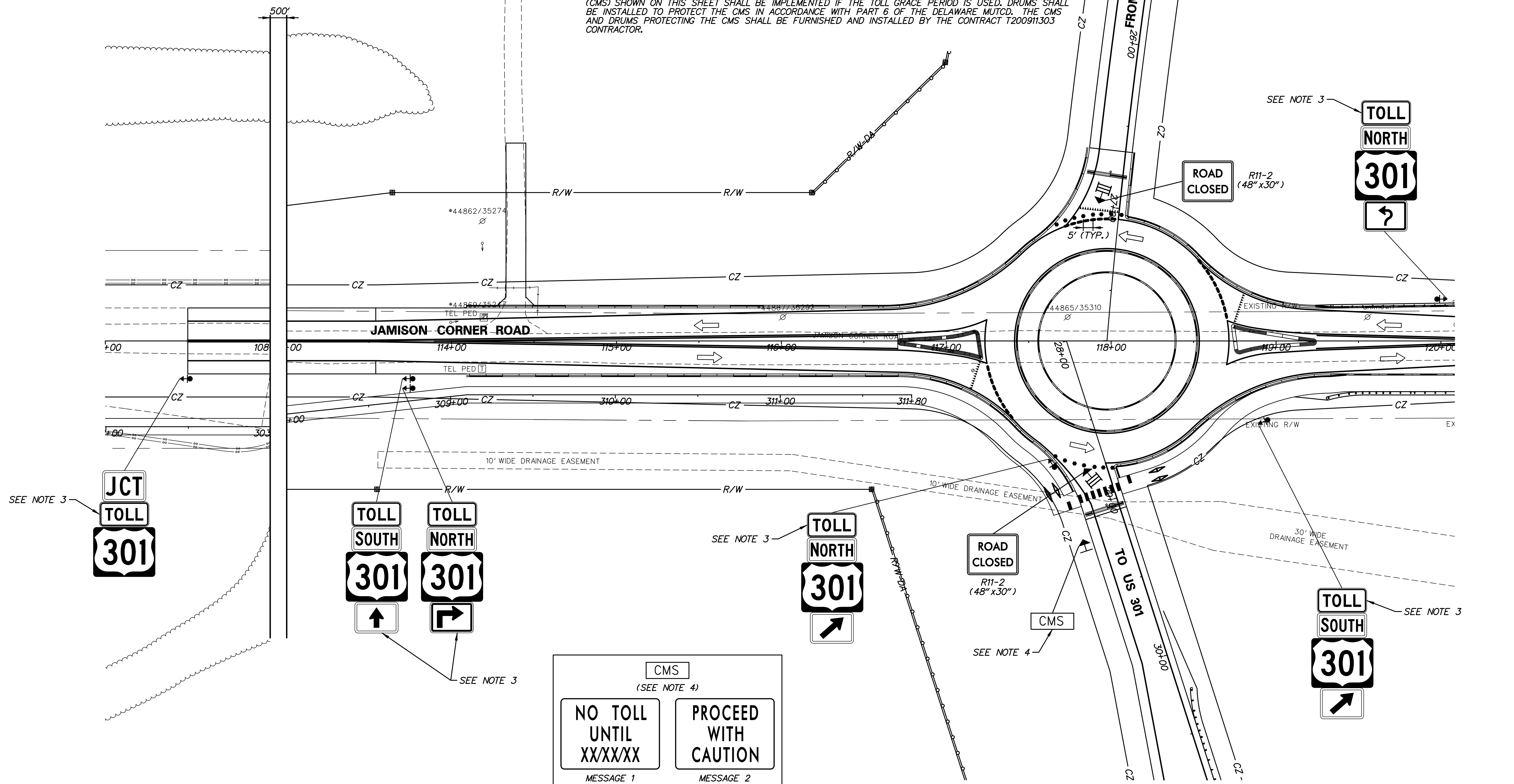
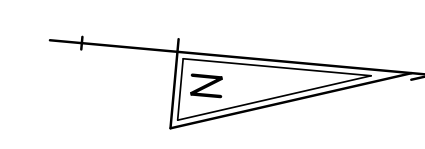
- ① THE CONTRACT T200911303 CONTRACTOR SHALL MAINTAIN THE TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN INSTALLED BY THE CONTRACT T200911308 CONTRACTOR FOR THE TEMPORARY CLOSURE OF THE US 301 ROADWAY.
- ② THE CONTRACT T200911303 CONTRACTOR SHALL REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN AND OPEN THE US 301 ROADWAY.

NOTES:

1. THE CONTRACT T200911308 CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES TO REMAIN IN PLACE AND SERVE TO TEMPORARILY CLOSE THE NEW US 301 ROADWAY UNTIL ITS OFFICIAL OPENING. MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES DURING THE INTERIM CLOSURE PERIOD AND UPON OPENING OF THE US 301 ROADWAY SHALL BE THE RESPONSIBILITY OF THE CONTRACT T200911303 CONTRACTOR.
2. PAYMENT FOR MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES AND SIGN COVERINGS SHOWN ON THIS PLAN BY THE CONTRACT T200911303 CONTRACTOR WILL NOT BE MEASURED AND PAID FOR BUT WILL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC.
3. CONTRACT T200911308 CONTRACTOR SHALL COVER SIGN WITH OPAQUE MATERIAL AFTER INSTALLATION OF THE SIGN AND LEAVE SIGN COVERED. CONTRACT T200911303 CONTRACTOR SHALL REMOVE SIGN COVERINGS UPON OPENING OF US 301 ROADWAY.
4. AT THE TIME THAT THE ENTIRE US 301 MAINLINE FROM THE MARYLAND STATE LINE TO SR 1 IS READY TO BE OPENED TO PUBLIC TRAFFIC, DELDOT MAY DECIDE TO ALLOW PUBLIC USE OF THE US 301 FACILITY FOR A SHORT PERIOD OF TIME BEFORE STARTING TO COLLECT TOLLS. THE DETERMINATION IF THIS TOLL GRACE PERIOD IS TO BE USED AND ITS DURATION WILL BE MADE BY DELDOT. THE CHANGEABLE MESSAGE SIGN (CMS) SHOWN ON THIS SHEET SHALL BE IMPLEMENTED IF THE TOLL GRACE PERIOD IS USED. DRUMS SHALL BE INSTALLED TO PROTECT THE CMS IN ACCORDANCE WITH PART 6 OF THE DELAWARE MUTCD. THE CMS AND DRUMS PROTECTING THE CMS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACT T200911303 CONTRACTOR.

CONSTRUCTION PHASING LEGEND

- PROPOSED CONSTRUCTION THIS PHASE
- EXISTING SIGN/PROPOSED TEMPORARY SIGN
- TYPE III BARRICADE
- PLASTIC DRUM
- TRAFFIC FLOW ARROW
- PORTABLE P.C.G. SAFETY BARRIER (IF SHAPE)
- PORTABLE IMPACT ATTENUATOR



SEQUENCE OF CONSTRUCTION

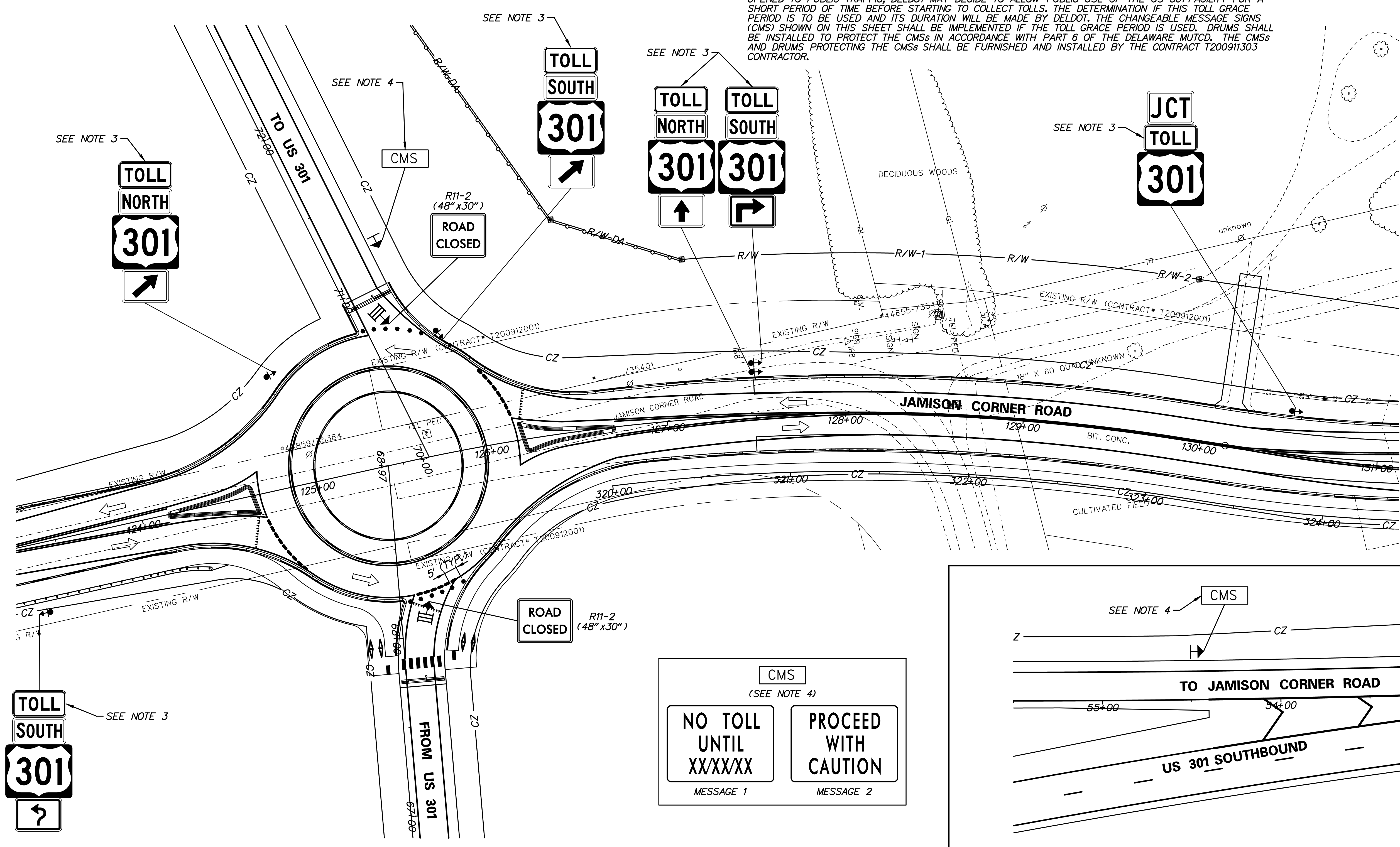
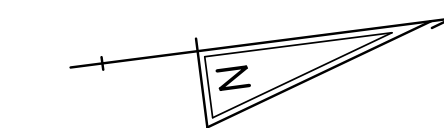
- ① THE CONTRACT T200911303 CONTRACTOR SHALL MAINTAIN THE TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN INSTALLED BY THE CONTRACT T200911308 CONTRACTOR FOR THE TEMPORARY CLOSURE OF THE US 301 ROADWAY.
- ② THE CONTRACT T200911303 CONTRACTOR SHALL REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN AND OPEN THE US 301 ROADWAY.

NOTES:

1. THE CONTRACT T200911308 CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES TO REMAIN IN PLACE AND SERVE TO TEMPORARILY CLOSE THE NEW US 301 ROADWAY UNTIL ITS OFFICIAL OPENING. MAINTENANCE AND REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES DURING THE INTERIM CLOSURE PERIOD AND UPON OPENING OF THE US 301 ROADWAY SHALL BE THE RESPONSIBILITY OF THE CONTRACT T200911303 CONTRACTOR.
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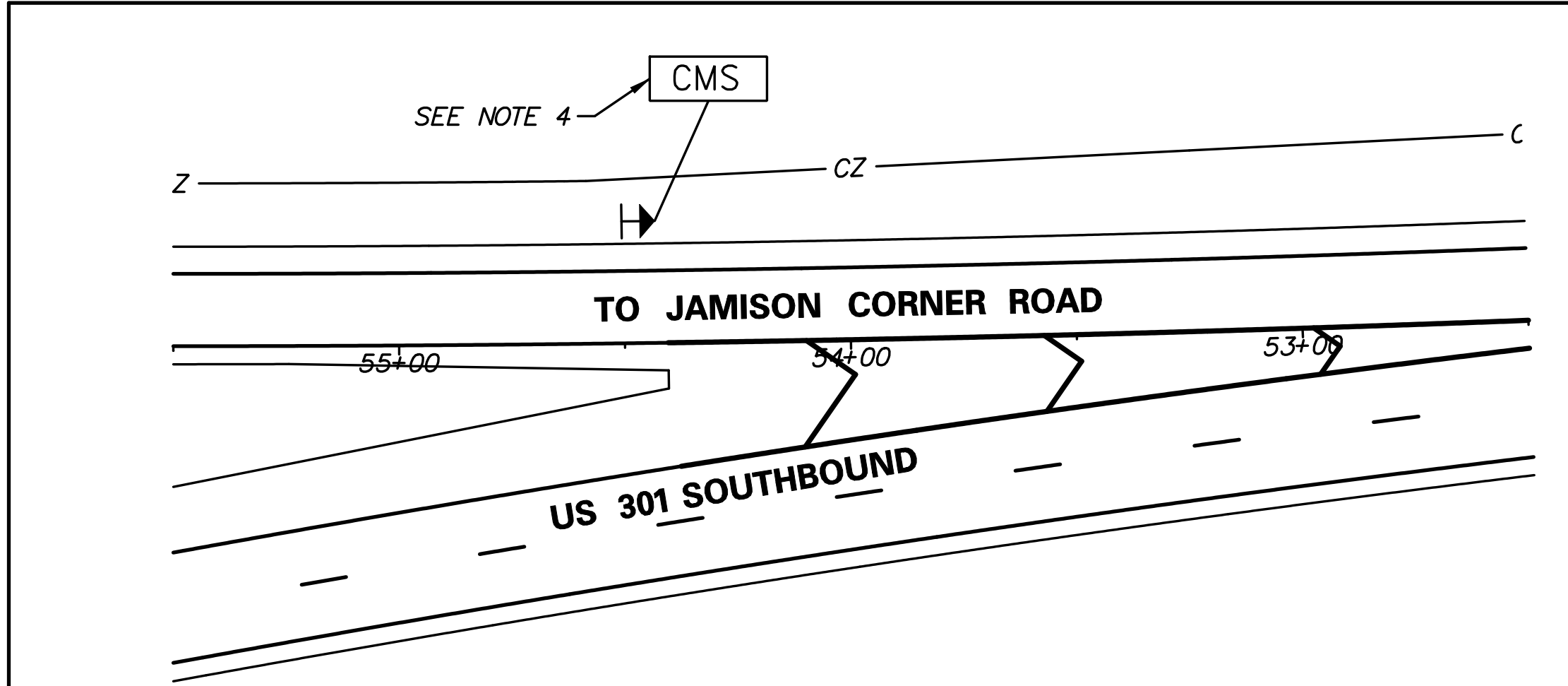
CONSTRUCTION PHASING LEGEND

- PROPOSED CONSTRUCTION THIS PHASE
- EXISTING SIGN/PROPOSED TEMPORARY SIGN
- TYPE III BARRICADE
- PLASTIC DRUM
- TRAFFIC FLOW ARROW
- PORTABLE P.C.C. SAFETY BARRIER (IF SHAPE)
- PORTABLE IMPACT ATTENUATOR

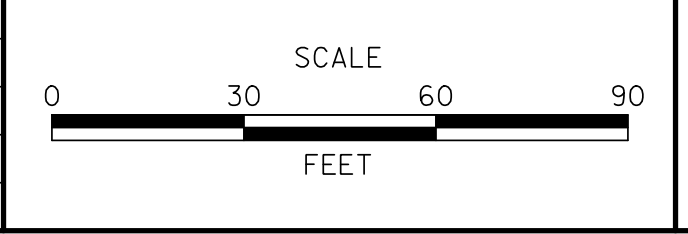


CMS
(SEE NOTE 4)

NO TOLL UNTIL XX/XX/XX <small>MESSAGE 1</small>	PROCEED WITH CAUTION <small>MESSAGE 2</small>
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ADDENDUMS / REVISIONS



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.	
COUNTY NEW CASTLE	DESIGNED BY:	J.D.C.
	CHECKED BY:	J.D.C.

**TEMPORARY US 301
CLOSURE - SECTION 1**

SR1-09
SHEET NO. 1183
TOTAL SHTS. 1256

INDEX OF SHEETS

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1224	E-15	ELECTRICAL LUMINAIRE SCHEDULE			
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FOR INFORMATION ONLY / WORK BY OTHERS

IS-05



ADDENDUMS / REVISIONS

NOT TO SCALE

US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

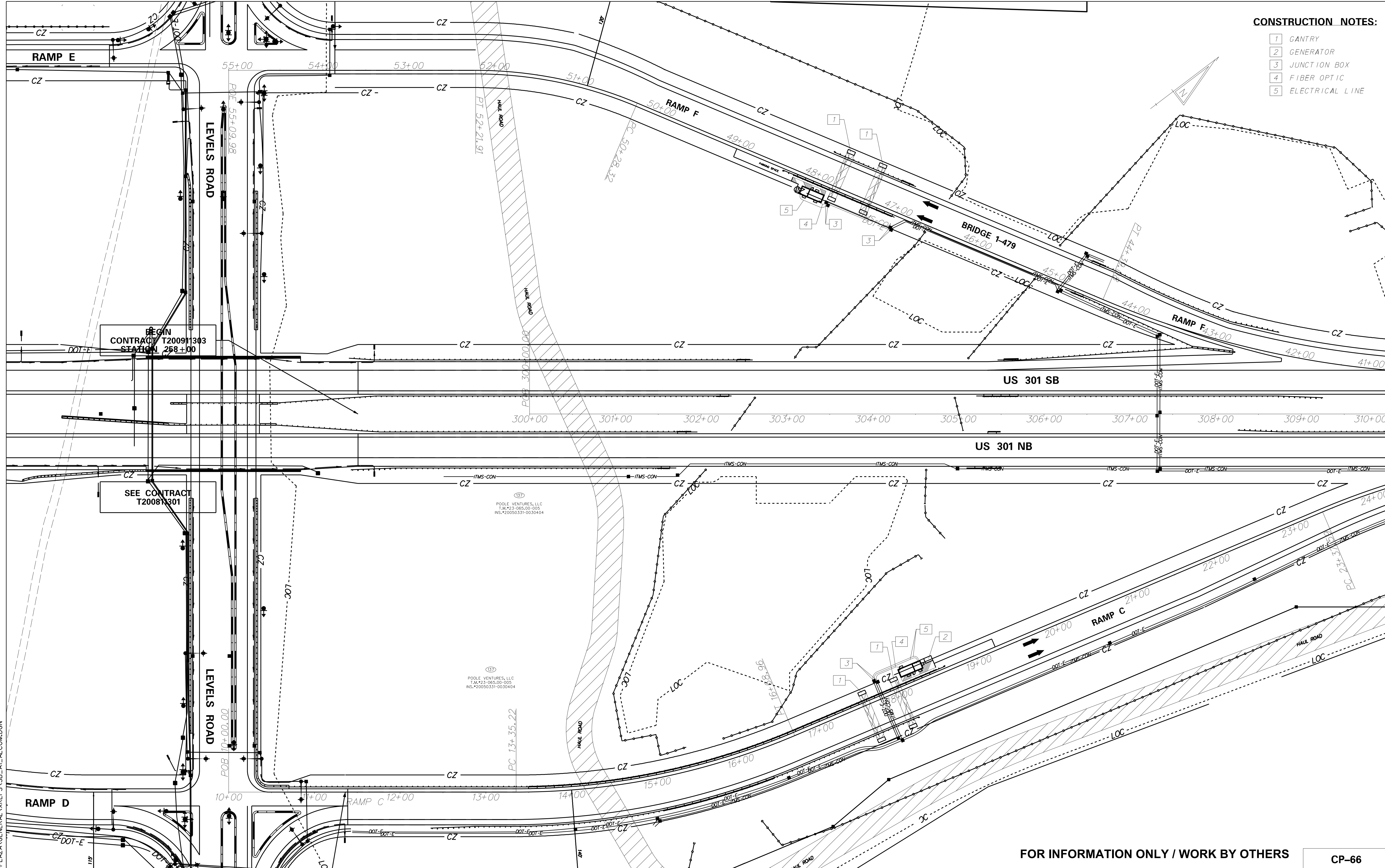
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: TOD
NEW CASTLE	CHECKED BY: BDP

TOLL INDEX

SHEET NO.
1184
TOTAL SHTS.
1256

CONSTRUCTION NOTES:

- 1 GANTRY
- 2 GENERATOR
- 3 JUNCTION BOX
- 4 FIBER OPTIC
- 5 ELECTRICAL LINE



CONTRACT T200911303
STATION 258+00

SEE CONTRACT
T200811301

POOLE VENTURES, LLC
T.M.#23-065,00-005
INS.#20050331-0030404

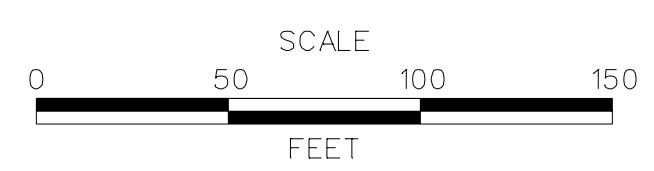
POOLE VENTURES, LLC
T.M.#23-065,00-005
INS.#20050331-0030404

FOR INFORMATION ONLY / WORK BY OTHERS

CP-66



ADDENDUMS / REVISIONS



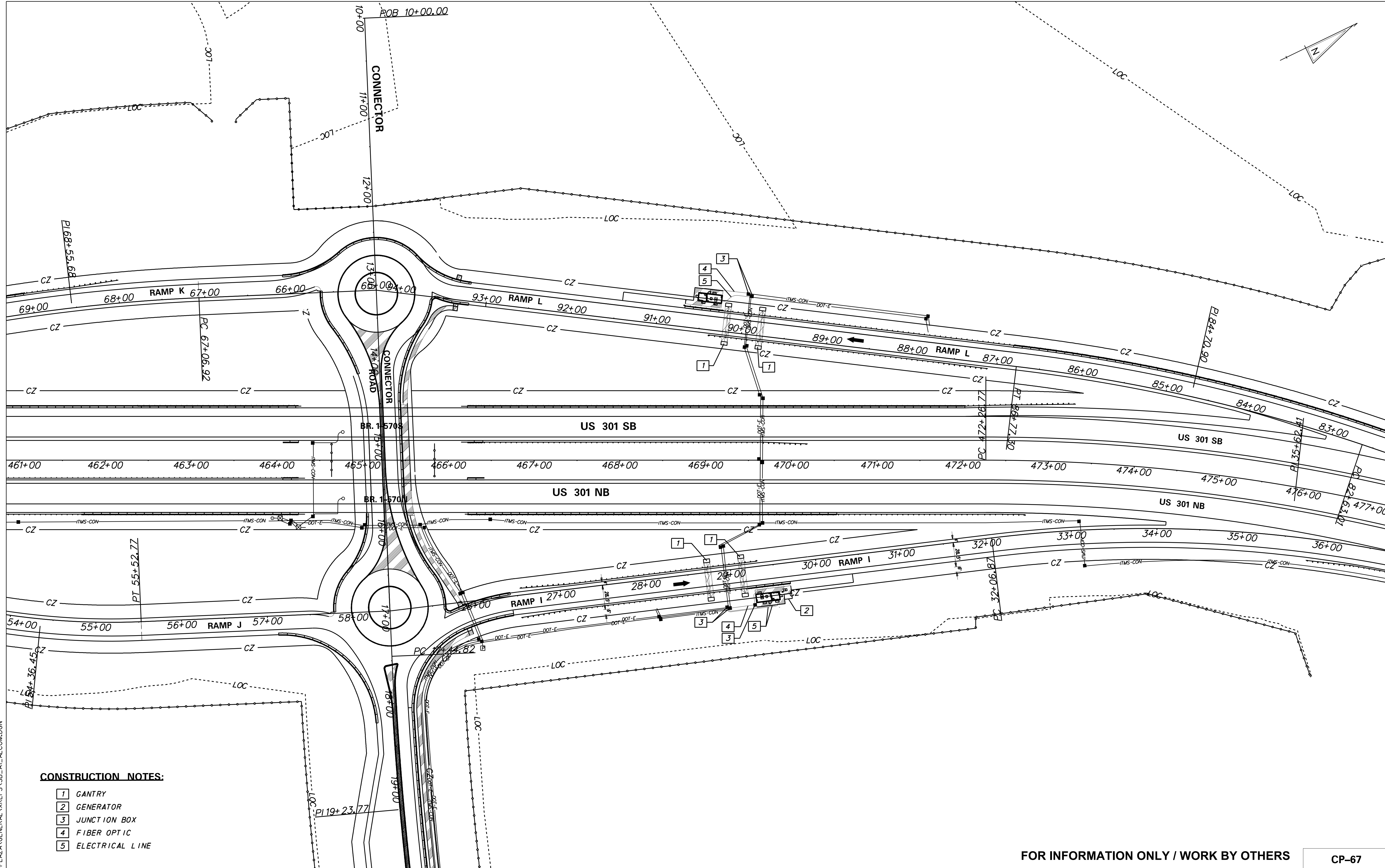
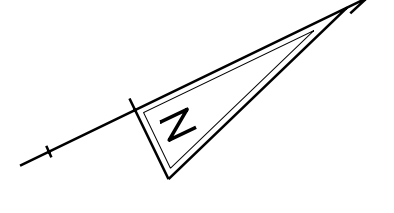
**US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: GW
	CHECKED BY: BDP

**GENERAL LAYOUT
CONSTRUCTION PLAN**

SHEET NO. 1185
TOTAL SHTS. 1256

LAST REVISED: 3/12/2008
H:\50343_TOLL_PLAZA\GENERAL\REFS\SB_A1_AECOM.DGN



CONSTRUCTION NOTES:

- 1 GANTRY
- 2 GENERATOR
- 3 JUNCTION BOX
- 4 FIBER OPTIC
- 5 ELECTRICAL LINE

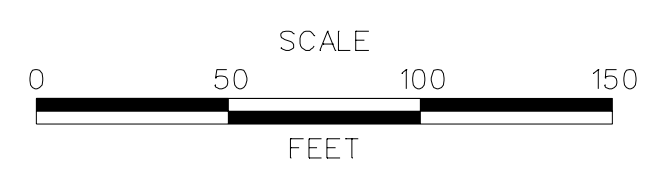
FOR INFORMATION ONLY / WORK BY OTHERS

CP-67

LAST REVISED: 3/12/2008
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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: GW
	CHECKED BY: BDP

**GENERAL LAYOUT
CONSTRUCTION PLAN**

SHEET NO. 1186
TOTAL SHTS. 1256

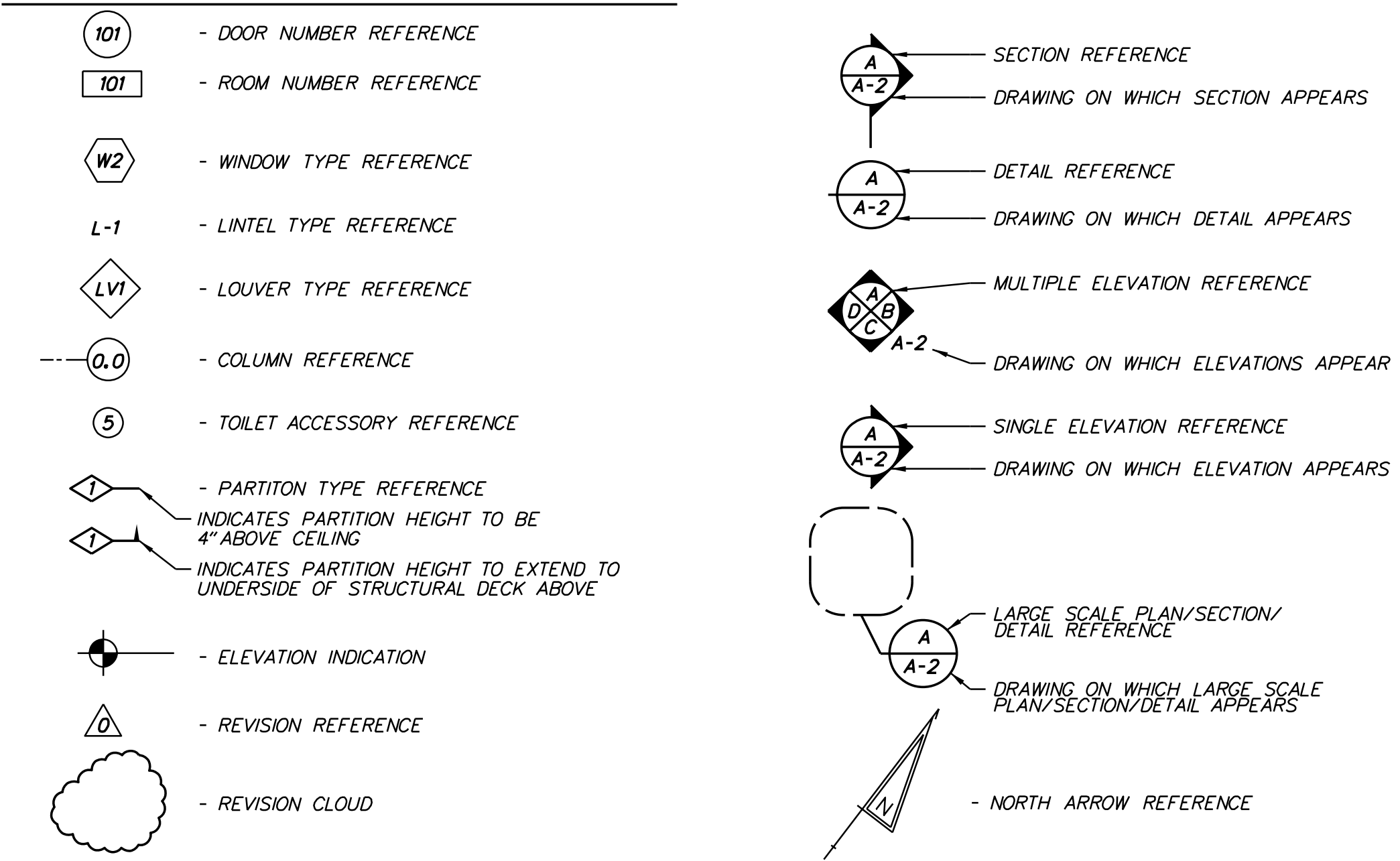
GENERAL NOTES

- ALL WORK SHALL BE COORDINATED WITH DELDOT.
- COORDINATION OF WORK: THE CONTRACTOR HAS THE RESPONSIBILITY TO COORDINATE THE WORK OF SUBCONTRACTORS TO SUIT PROJECT CONDITIONS. THE CONTRACT SCOPE OF WORK SHALL INCLUDE ALL WORK TO PROVIDE A FINISHED CLEAN AND NEAT APPEARANCE.
- VERIFY AND COORDINATE THE LOCATION OF EQUIPMENT WITH ELECTRICAL, AND MECHANICAL DRAWINGS.
- ALL DIMENSIONS SHOWN TO FACE OF CMU OR CENTERLINE OF COLUMN GRID UNLESS OTHERWISE NOTED. DIMENSIONS NOTED "CLEAR" SHALL BE FROM FINISH FACE TO FINISH FACE.
- ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION, ERECTION, AND/OR INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDYING ANY DIMENSIONAL ERRORS IN FABRICATION, ERECTION, AND/OR INSTALLATION WITHOUT ADDITIONAL COST TO THE OWNER AND WITHOUT ADDITIONAL TIME TO PROJECT SCHEDULE.
- FOR ALL DIMENSIONS NOT SHOWN ON FLOOR PLAN REFER TO ENLARGED PLANS.
- ALL MASONRY DIMENSIONS, MO, ETC ARE NOMINAL DIMENSIONS UNLESS OTHERWISE NOTED.
- SEE SPECIFICATIONS FOR ALL INTERIOR AND EXTERIOR SIGNAGE REQUIREMENTS.
- FE INDICATES FIRE EXTINGUISHER. SURFACE MOUNTED UNITS
- INTERIOR DOOR DIMENSIONS ARE TO MASONRY OPENINGS UNLESS OTHERWISE NOTED.
- SEE MECHANICAL / ELECTRICAL DRAWINGS FOR EXACT LOCATION OF CURB AND TYPE OF EQUIPMENT. SEE STRUCTURAL DRAWINGS FOR REINFORCING REQUIREMENTS.
- ALL PARTITIONS SHALL EXTEND TO THE UNDERSIDE OF THE STRUCTURAL DECK AND/OR TO BOTTOM OF TRUSS AND BE SEALED TIGHTLY WITH NON-COMBUSTIBLE SEALANT.
- ALL CEILINGS TO RECEIVE SAME PAINT FINISH AS THE ROOM WALLS UNLESS OTHERWISE NOTED.

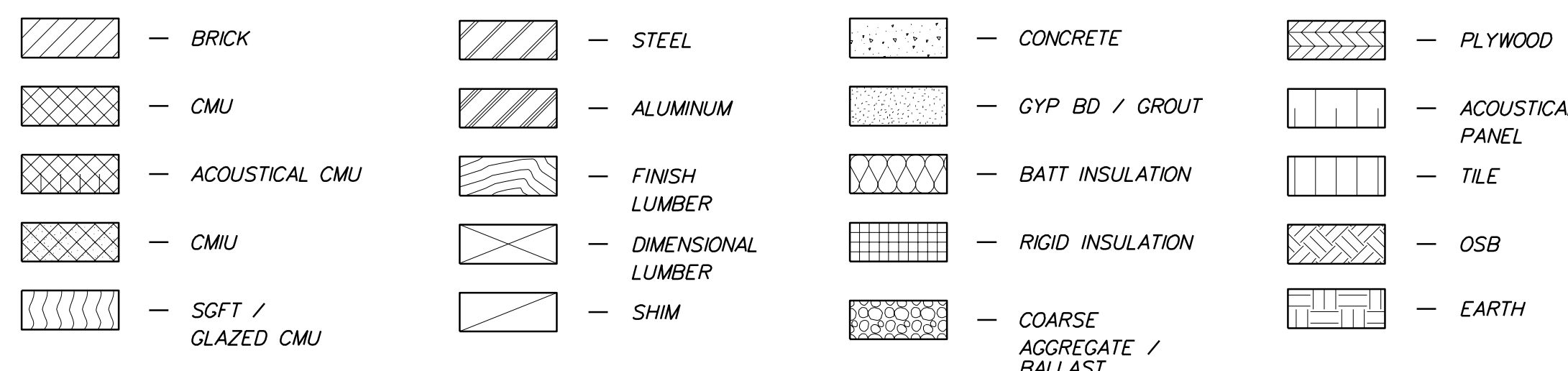
ARCHITECTURAL ABBREVIATIONS

ABV	ABOVE	FAB	FABRICATE	OSB	ORIENTED STRAND BOARD
AC	AIR CONDITIONER	FBD	FIBERBOARD	P/L	PROPERTY LINE
ACST	ACOUSTIC	FC	FILE CABINET	PASS	PASSENGER
ADDL	ADDITIONAL	FD	FLOOR DRAIN	PERF	PERFORATED
ADJ	ADJACENT	FON	FOUNDATION	PL	PLATE
AFF	ABOVE FINISH FLOOR	FDR	FIRE DOOR	PLAS	PLASTER
AGGR	AGGREGATE	FE	FIRE EXTINGUISHER	PLBG	PLUMBING
AL	ALUMINUM	FEC	FIRE EXTINGUISHER & CABINET	PLYWD	PLYWOOD
ALT	ALTERNATE	FHY	FIRE HYDRANT	PNL	PANEL
ARCH	ARCHITECTURAL	FIN	FINISH	PNT	PAINT
ASB	ASBESTOS	FL	FLASHING	PORC	PORCELAIN
ASPH	ASPHALT	FLX	FLEXIBLE	PAIR	PAIR
ASPHRS	ASPHALT ROOF SHINGLES	FLG	FLANGE	PREFAB	PREFABRICATED
ASSN	ASSOCIATION	FLR	FLOOR	PROJ	PROJECT
ASST	ASSISTANT	FLRG	FLOORING	PSF	POUNDS PER SQUARE FOOT
ASSY	ASSEMBLY	FP	FIREPROOF	PSI	POUNDS PER SQUARE INCH
AVE	AVENUE	FRP	FIBERGLASS-REINFORCED PLASTICS	PT	POINT
AVG	AVERAGE	FT	FOOT	PTD	PAINTED
B/O	BOTTOM OF	FTG	FOOTING	PTN	PARTITION
BALC	BALCONY	FURN	FURNITURE	PVC	POLYVINYL CHLORIDE
BD	BOARD	G	GALVE	QTF	QUARRY-TILE FLOOR
BETW	BETWEEN	GALV	GALVANIZED	R	RADIUS
BLDG	BUILDING	GAR	GARAGE	RI	RISER
BLKG	BLOCKING	GEN	GENERATOR	RD	ROOF DRAIN
BLR	BOILER	GL	GLASS	REF	REFRIGERATOR
BM	BEAM	GLU-LAM	GLUE-LAMINATED	REINF	REINFORCE
BP	BASE PLATE	GOVT	GOVERNMENT	REQD	REQUIRED
BRDG	BRIDGING	GR	GRADE	RET	RETURN
BRG	BEARING	GRD	GROUND	REV	REVISION
BS	BOTH SIDES	GVL	GRAVEL	REG	REGISTER
BSMT	BASEMENT	GWB	GYPSTUM WALLBOARD	RFG	ROOFING
CAB	CABINET	GYP	GYPSTUM	RH	RIGHT HAND
CAP	CAPACITY	H	HIGH	RM	ROOM
CARP	CARPET	HCP	HANDICAP	RWC	RAIN WATER CONDUCTOR
CDR	COILING DOOR	HDWE	HARDWARE	S	SOUTH
CER	CERAMIC	HM	HOLLOW METAL	SAPC	SUSPENDED ACOUSTICAL PANEL CEILING
CER TILE	CERAMIC TILE	HMD	HOLLOW METAL DOOR	SCHED	SCHEDULE
CI	CAST IRON	HORIZ	HORIZONTAL	SDG	SIDING
CIP	CAST-IRON PIPE	HPT	HIGH POINT	SEC	SECTION
CJ	CONTROL JOINT	HT	HEIGHT	SF	SQUARE FOOT
CL	CENTERLINE	HTR	HEATER	SGFT	STRUCTURAL GLAZED FACING TILE
CLG	CEILING	HVAC	HEATING, VENTILATING, & AIR CONDITIONING	SH	SHOWER
CLO	CLOSET	ID	INSIDE DIAMETER	SHM	SECURITY HOLLOW METAL SHEET
CLR	CLEAR	IE	THAT IS	SHT	SHEET
CMU	CONCRETE MASONRY INSULATED UNIT	IH	INTAKE HOOD	SI	INTERNATIONAL SYSTEM OF UNITS
CMU	CONCRETE MASONRY UNIT	IN	INCH	SIM	SIMILAR
CNCL	CONCEALED	INSUL	INSULATION	SKY	SKYLIGHT
CO	CLEANOUT	INTR	INTERIOR	SLDR	SLIDING DOOR
COM	COMPANY	JST	JOIST	SMLS	SEAMLESS
COL	COLUMN	JT	JOINT	SPA	SPACED
COMP	COMPOSITION	LAB	LABORATORY	SPEC	SPECIFICATION
CONC	CONCRETE	LAM	LAMINATE	SPKLR	SPRINKLER
CONSTR	CONSTRUCTION	LAV	LAVATORY	SPKR	SPEAKER
CONT	CONTINUOUS	LG	LENGTH	SQ	SQUARE
CONTR	CONTRACTOR	LH	LEFT HAND	SS	STAINLESS STEEL
CRV	CURVED	LIB	LIBRARY	STD	STANDARD
CSK	COUNTERSINK	LIN	LINEAR	STL	STEEL
CTD	COATED	LL	LIVE LOAD	STOR	STORAGE
CTR	CENTER	LLH	LONG LEG HORIZONTAL	STRUCT	STRUCTURE/STRUCTURAL
CUH	CABINET UNIT HEATER	LLV	LONG LEG VERTICAL	STWY	STAIRWAY
D	DEPTH	LPT	LOW POINT	SUPT	SUPERINTENDENT
DBL	DOUBLE	LT	LIGHT	SUPVR	SUPERVISOR
DEG	DEGREE	LWC	LIGHTWEIGHT CONCRETE	SURF	SURFACE
DEPT	DEPARTMENT	MAINT	MAINTENANCE	SUSP	SUSPENDED/SUSPENSION
DET	DETAIL	MAS	MASONRY	SYS	SYSTEM
DGL	DIAGONAL	MATL	MATERIAL	T	TREAD
DIA	DIAMETER	MAX	MAXIMUM	T/O	TOP OF
DIM	DIMENSION	MECH	MECHANICAL	T&B	TOP AND BOTTOM
DIV	DIVISION	MEMB	MEMBRANE	T&G	TONGUE AND GROOVE
DL	DEAD LOAD	MEZZ	MEZZANINE	TAN	TANGENT
DMPF	DAMP-PROOFING	MFR	MANUFACTURER	TDD	TELECOMMUNICATION DISPLAY DEVICE
DN	DOWN	MGR	MANAGER	TEL	TELEPHONE
DPN	DEMOUNTABLE PARTITION	MH	MANHOLE	TEMP	TEMPORARY
DR	DOOR	ML	MILITARY	TER	TERRAZZO
DS	DOWNSPOUT	MIN	MINIMUM	THRU	THROUGH
DW	DISHWASHER	MISC	MISCELLANEOUS	TLT	TOILET
DWG	DRAWING	ML	METAL LATH	TRTD	TREATED
E	EAST	MLDG	MOLDING	TYP	TYPICAL
EA	EACH	MLP	METAL LATH AND PLASTER	UNO	UNLESS NOTED OTHERWISE
EGEN	EMERGENCY GENERATOR	MO	MASONRY OPENING	VAT	VINYL ASBESTOS TILE
EF	EXHAUST FAN	MOD	MOTOR OPERATED DAMPER	VCT	VINYL COMPOSITION TILE
EIFS	EXTERIOR INSULATION & FINISH SYSTEM	MTG	MOUNTING	VEND	VENDING MACHINE
EL	ELEVATION	N	NORTH	VERT	VERTICAL
ELEC	ELECTRICAL	NA	NOT APPLICABLE	VIF	VERIFY IN FIELD
ELEV	ELEVATOR	NC	NOT IN CONTRACT	VTR	VENT THRU ROOF
ENTR	ENTRANCE	NO	NUMBER	W	WEST
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	NRC	NOISE-REDUCTION COEFFICIENT	WI	WIDE
ETC	ETCETERA	NTS	NOT TO SCALE	W/	WITH
EQ	EQUAL	OA	OVERALL	W/O	WITHOUT
EQUIP	EQUIPMENT	OC	ON CENTER	WBD	WALLBOARD
EWC	ELECTRIC WATER COOLER	OD	OUTSIDE DIAMETER	WC	WATER CLOSET
EXH	EXHAUST	OFF	OFFICE	WD	WOOD
EXIST	EXISTING	OH	OPPOSITE HAND	WDR	WOOD DOOR
EXP	EXPANSION	OHDR	OVERHEAD DOOR	WH	WATER HEATER
EXP JT	EXPANSION JOINT	OPNG	OPENING	WTRPRF	WATERPROOFING
EXT	EXTERIOR	OPP	OPPOSITE	WWF	WELDED WIRE FABRIC
				XFMR	TRANSFORMER

SYMBOLS LEGEND



MATERIALS LEGEND



NOTE: SOME OF THESE SYMBOLS AND MATERIALS MAY NOT BE REPRESENTED ON THE DRAWINGS.

CODE CRITERIA

ALL CODE REFERENCES ARE FROM THE INTERNATIONAL BUILDING CODE 2006

DESCRIPTION	CODE REFERENCE	REQUIREMENT	PROVIDED
GENERAL USE GROUP SIMILAR TO:	312.1	UTILITY AND MISCELLANEOUS GROUP (U)	UTILITY AND MISCELLANEOUS GROUP (U)
CONSTRUCTION TYPE:	TABLES 601	TYPE 2-B	TYPE 2-B
NO. OF STORIES	TABLE 503	2 STORIES (MAX)	1 STORY
BUILDING AREA	TABLE 503	8,500 SF (MAX)	293 SF
SPECIAL REQUIREMENTS	CHAPTER 4 - N/A		
SPRINKLERED	DELAWARE STATE FIRE PREVENTION REG.	NOT REQUIRED	CLEAN AGENT FIRE SUPPRESSION SYSTEM PROVIDED FOR ETC ROOM
FIRE ALARM SYSTEM	907	FIRE ALARM	FIRE ALARM PROVIDED
FIRE RESISTANCE RATING		NOT REQUIRED	
BUILDING ELEMENTS			
1. STRUCTURAL FRAME	TABLE 601	0 HOURS	0 HOURS
2. BEARING WALLS	TABLE 601	0 HOURS	0 HOURS
3. NON BEARING WALLS	TABLE 601	0 HOURS	0 HOURS
4. FLOOR CONSTRUCTION	TABLE 601	0 HOURS	0 HOURS
5. ROOF CONSTRUCTION	TABLE 601	0 HOURS	0 HOURS
OTHER ELEMENTS			
1. SHAFT ENCLOSURES	707	N/A	N/A
2. EXIT ENCLOSURES	1020.1	N/A	N/A

FOR INFORMATION ONLY / WORK BY OTHERS

A-1

T/ MASONRY
 EL. 67.16 (RAMP C)
 EL. 70.65 (RAMP F)
 EL. 89.84 (RAMP I)
 EL. 87.24 (RAMP L)

JOIST BEARING
 EL. 63.83 (RAMP C)
 EL. 67.32 (RAMP F)
 EL. 86.51 (RAMP I)
 EL. 83.91 (RAMP L)

T/ SLAB
 EL. 54.50 (RAMP C)
 EL. 57.99 (RAMP F)
 EL. 77.18 (RAMP I)
 EL. 74.58 (RAMP L)

ELEVATION

SCALE: 1/4" = 1'-0" A-2

T/ MASONRY
 EL. 67.16 (RAMP C)
 EL. 70.65 (RAMP F)
 EL. 89.84 (RAMP I)
 EL. 87.24 (RAMP L)

JOIST BEARING
 EL. 63.83 (RAMP C)
 EL. 67.32 (RAMP F)
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 EL. 86.51 (RAMP I)
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T/ SLAB
 EL. 54.50 (RAMP C)
 EL. 57.99 (RAMP F)
 EL. 77.18 (RAMP I)
 EL. 74.58 (RAMP L)

ELEVATION

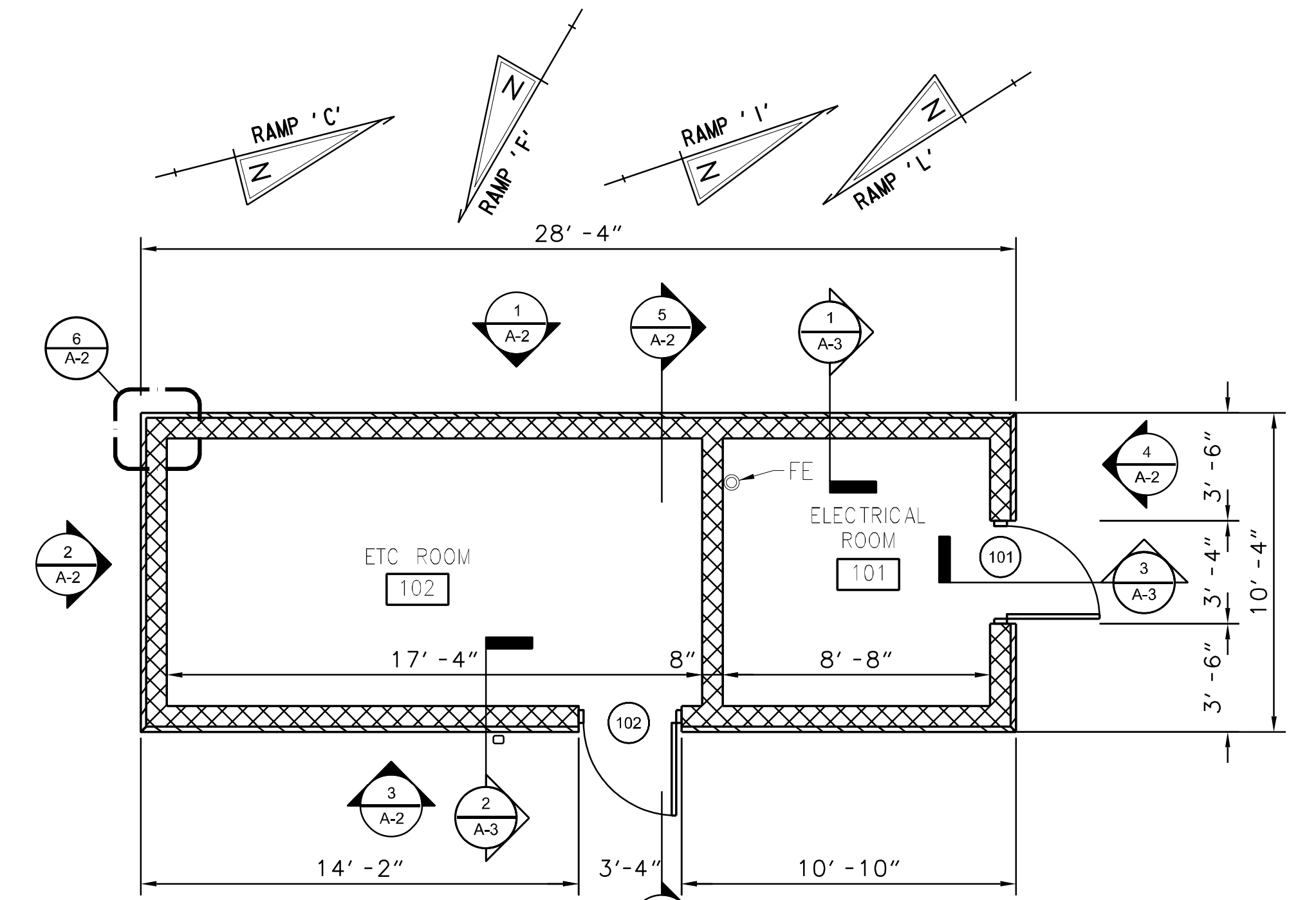
SCALE: 1/4" = 1'-0" A-2

KEYNOTES

- 1 SPLIT FACE CMU COLOR #1
- 2 MATTE FACE CMU COLOR #2
- 3 METAL COPING
- 4 METAL DOWNSPOUT
- 5 METAL GUTTER
- 6 METAL FASCIA
- 7 SPLASHBLOCK
- 8 STANDING SEAM METAL ROOF
- 9 LIGHT GAUGE METAL TRUSS
- 10 3/4" PLYWOOD SHEATHING
- 11 RIGID INSULATION
- 12 VAPOR BARRIER OVER COURSE AGGREGATE
- 13 CONCRETE FOOTING. SEE STRUCTURAL DRAWINGS

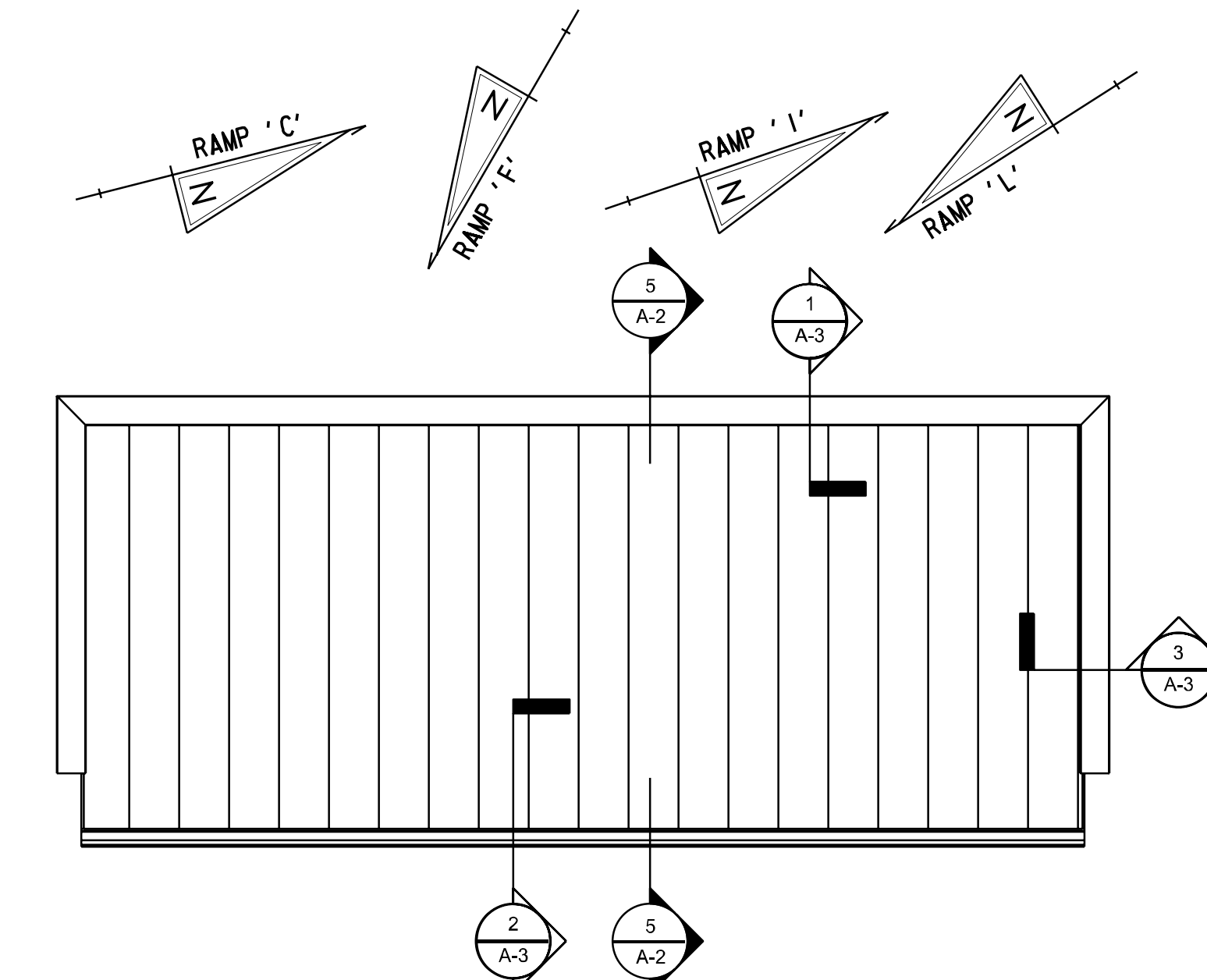
FLOOR PLAN NOTES

1. MASONRY DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE.
2. DIMENSIONS AT CMU WALLS ARE TO THE FACE OF CMU UNLESS NOTED OTHERWISE.
3. PROVIDE LINTELS FOR OPENINGS IN MASONRY WALLS INCLUDING BUT NOT LIMITED TO OPENINGS FOR DOORS, LOUVERS AND MECHANICAL AND ELECTRICAL PENETRATIONS.
4. THE INSIDE EDGE OF DOOR FRAMES SHALL BE SET 4" CLEAR FROM THE FINISH FACE OF THE ADJACENT PERPENDICULAR PARTITION UNLESS OTHERWISE DIMENSIONED.
5. SEE CIVIL DRAWINGS FOR FINISHED FIRST FLOOR ELEVATION.
6. SEE CIVIL DRAWINGS FOR CONCRETE PADS AND BOLLARD LOCATIONS AT EXTERIOR DOORS



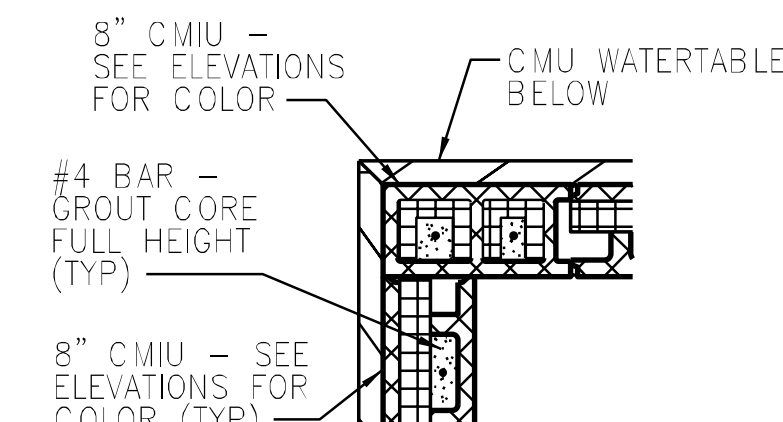
FLOOR PLAN

SCALE: 1/4" = 1'-0"



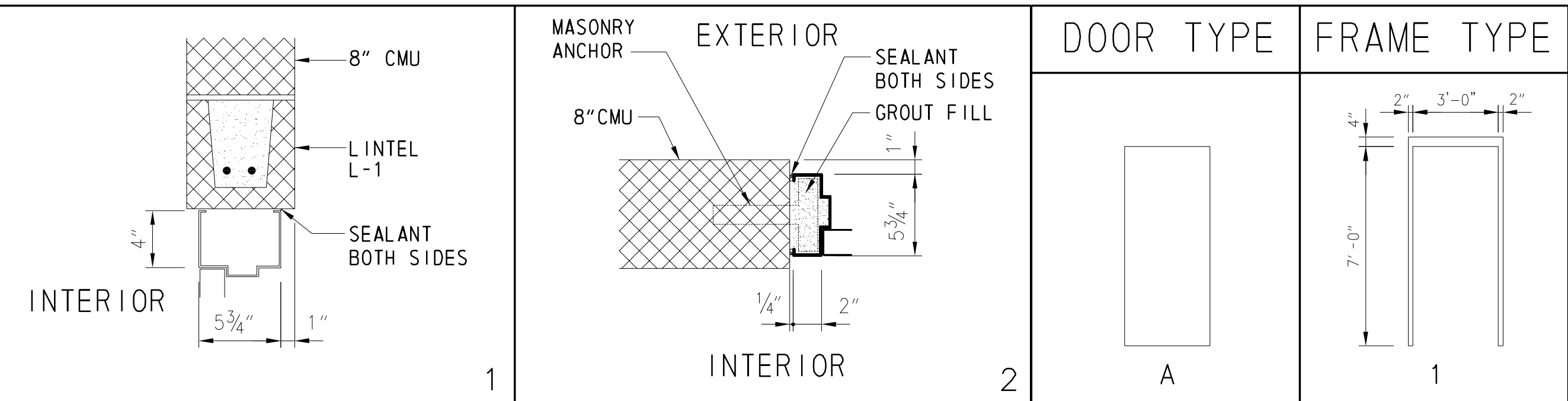
ROOF PLAN

SCALE: 1/4" = 1'-0"



DETAIL

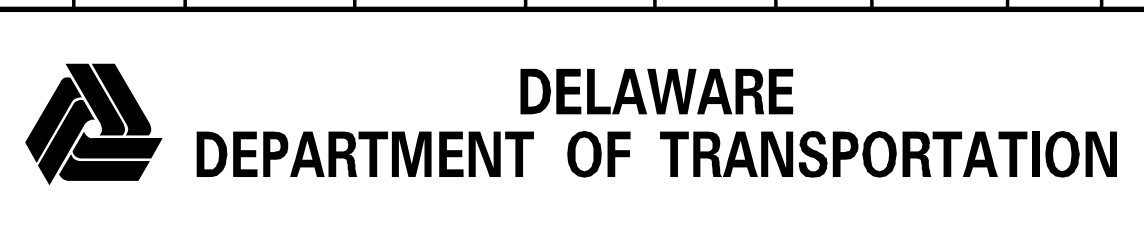
SCALE: 3/4" = 1'-0" A-2



DOORS AND FRAMES

LOCATION	DOOR NO.	DOOR			FRAME							FIRE RATING	HARDWARE		LINTEL	REMARKS	
		SIZE			DETAILS								SET NO.	KEYS IDE ROOM NO.			
		W	H	T	MAT	TYPE	GLASS	LOUVER	HEAD	JAMB(S)	SILL						LAB
RAMP C	101	3'-0"	7'-0"	1 3/4"	HM	A								1	EXT	L-1	SMOKE SEALS AND CLOSER REQUIRED. CARD READER.
	102	3'-0"	7'-0"	1 3/4"	HM	A								2	EXT	L-1	CARD READER.
RAMP F	101	3'-0"	7'-0"	1 3/4"	HM	A								1	EXT	L-1	SMOKE SEALS AND CLOSER REQUIRED. CARD READER.
	102	3'-0"	7'-0"	1 3/4"	HM	A								2	EXT	L-1	CARD READER.
RAMP I	101	3'-0"	7'-0"	1 3/4"	HM	A								1	EXT	L-1	SMOKE SEALS AND CLOSER REQUIRED. CARD READER.
	102	3'-0"	7'-0"	1 3/4"	HM	A								2	EXT	L-1	CARD READER.
RAMP L	101	3'-0"	7'-0"	1 3/4"	HM	A								1	EXT	L-1	SMOKE SEALS AND CLOSER REQUIRED. CARD READER.
	102	3'-0"	7'-0"	1 3/4"	HM	A								2	EXT	L-1	CARD READER.

ADDENDUMS / REVISIONS



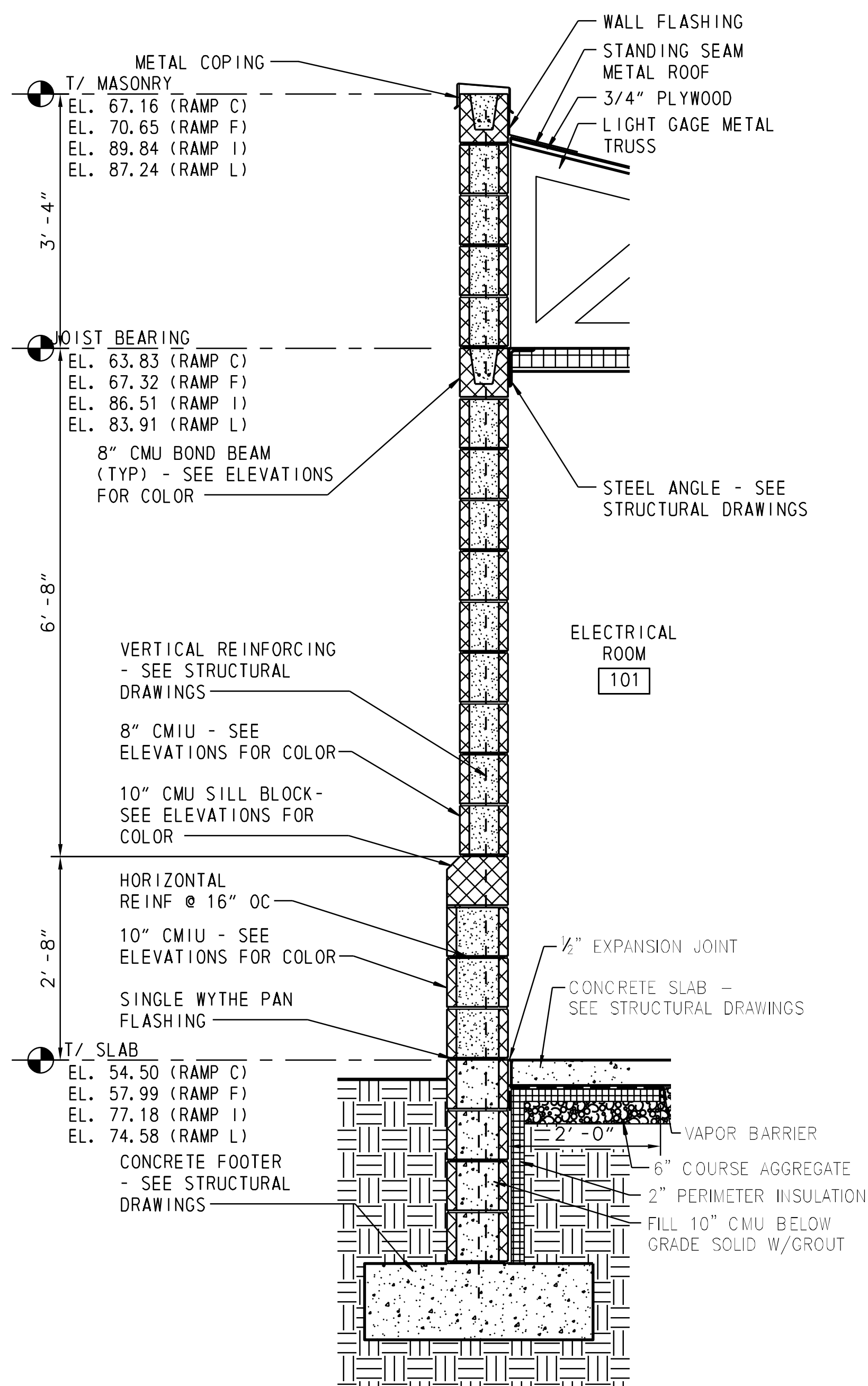
US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT T200911303
 COUNTY NEW CASTLE
 BRIDGE NO.
 DESIGNED BY: BJO
 CHECKED BY: JRS

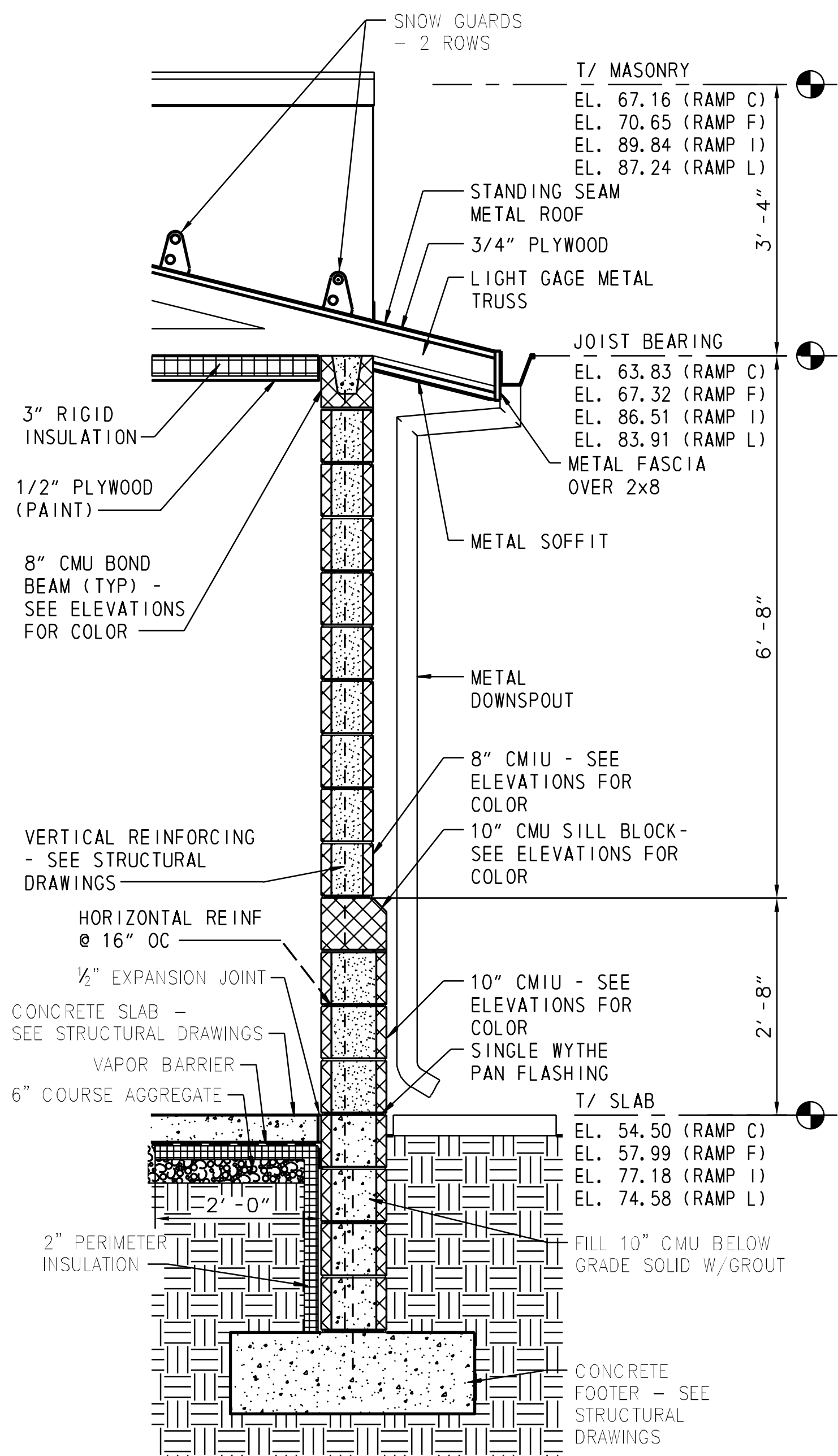
ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS

SHEET NO. 1188
 TOTAL SHTS. 1256

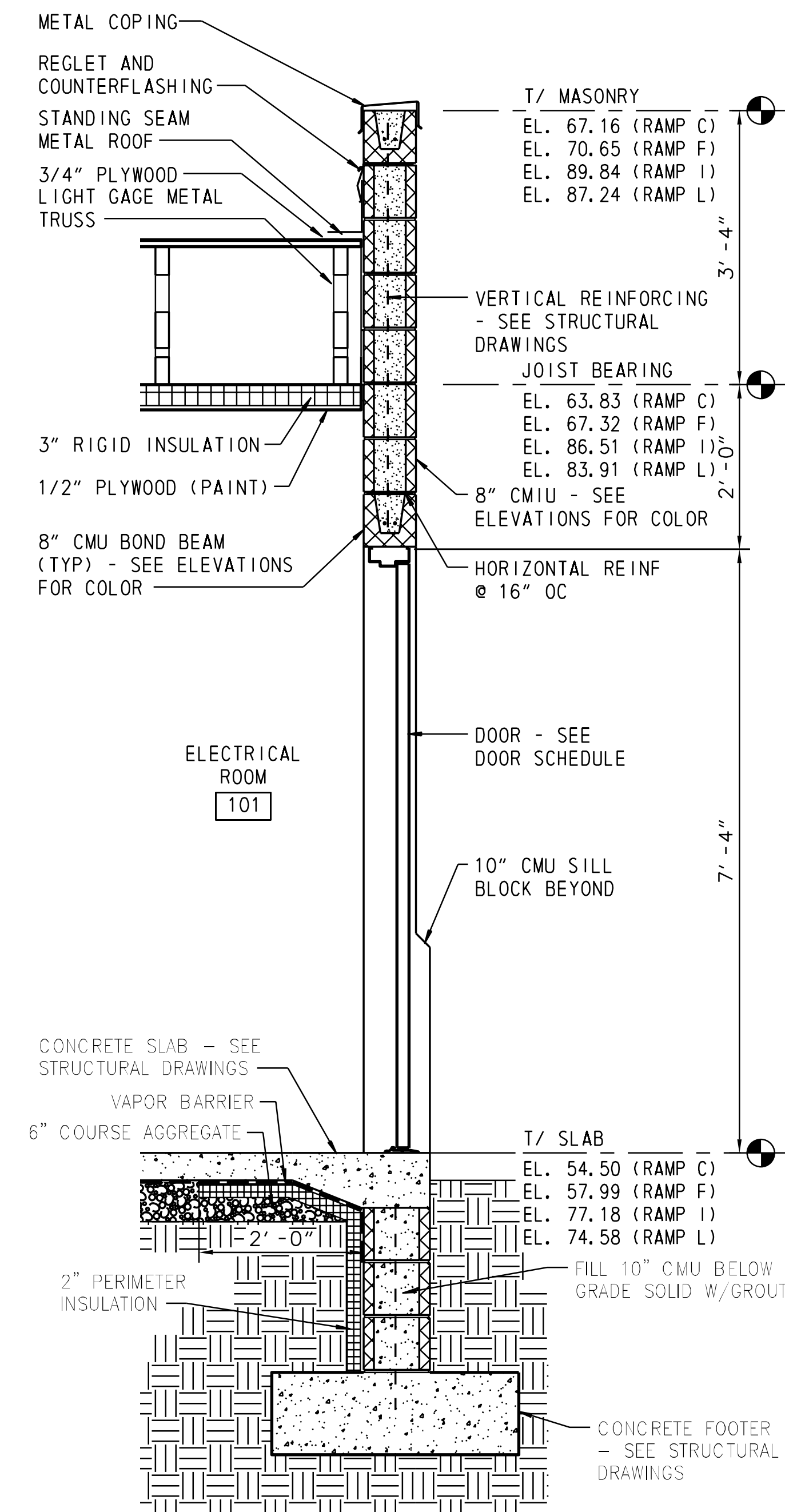
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WALL SECTION 1
SCALE: 3/4" = 1'-0" A-3



WALL SECTION 2
SCALE: 3/4" = 1'-0" A-3



WALL SECTION 3
SCALE: 3/4" = 1'-0" A-3

ROOMS		FLOORS	BASES	WALLS	CEILINGS	REMARKS
ROOM NO.	ROOM NAME	MATERIALS	MATERIALS	MATERIALS	MATERIALS	
101	ELECTRICAL ROOM	1 CONCRETE W/ SEALER 2 CONCRETE W/ EPOXY COATING 4 NOT USED 5 NOT USED 6 PAINTED 7 NOT USED 8 NOT USED 9 NOT USED 10 NOT USED 11 CMU 12 NOT USED 13 NOT USED 14 NOT USED 15 NOT USED 16 PAINT 17 1/2" PLYWOOD 18 NOT USED 19 NOT USED 20 NOT USED 21 PAINT	1	1 CMU 2 NOT USED 3 NOT USED 4 NOT USED 5 NOT USED 6 PAINT 7 1/2" PLYWOOD 8 NOT USED 9 NOT USED 10 NOT USED 11 PAINT	1 9'-0"	
102	ETC ROOM	2	1	1	1 9'-0"	

NOTE: SEE BUILDING ELEVATIONS ON DRAWING A-2 FOR LOCATION DESIGNATIONS OF SPLIT FACE AND MATTE FACE CMU.

FOR INFORMATION ONLY / WORK BY OTHERS

A-3

GENERAL STRUCTURAL NOTES:

GENERAL

1. THE STRUCTURE IS DESIGNED TO ACT AS A STRUCTURAL UNIT UPON COMPLETION. CONTRACTOR SHALL DESIGN AND PROVIDE NECESSARY BRACING, TEMPORARY SUPPORTS, AND SHORING TO RESIST FORCES, INCLUDING UPLIFT, ON THE STRUCTURE DURING CONSTRUCTION.
2. WORK SHALL BE COORDINATED WITH THE VARIOUS TRADES TO AVOID CONFLICT OR INTERFERENCE WITH REINFORCING STEEL OR STRUCTURAL STEEL MEMBERS.
3. THE LOCATION OF ALL AERIAL FACILITIES SHALL BE IDENTIFIED IN THE FIELD BEFORE CONSTRUCTION COMMENCES AND PSE&G PROXIMITY REQUIREMENTS ADHERED TO.

DESIGN CRITERIA

1. APPLICABLE CODES AND SPECIFICATIONS
 IBC 2006 W/ NEW CASTLE COUNTY CODE
 ASCE 7-05, MINIMUM BUILDING LOADS - AS APPLICABLE
 AISC 360-05, MANUAL OF STEEL CONSTRUCTION - LOAD AND RESISTANCE FACTOR DESIGN
 ACI 318-05, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY
2. DESIGN LOADS:
 WIND LOAD:
 BASIC WIND SPEED (3 SECOND GUST) - - - - - 90 MPH
 WIND IMPORTANCE FACTOR - - - - - 1.0
 WIND EXPOSURE - - - - - C

GANTRY NOTES:

1. PROVIDE MATERIALS AND WORKMANSHIP IN THE ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS: ANSI/AASHTO/AWS/D1.5-2002 BRIDGE WELDING CODE AND CONTRACT SPECIAL PROVISIONS. USE ANSI/AWS/D1.1-2002 FOR WELDING NOT COVERED IN ANSI/AASHTO/AWS/D1.5-2002.
2. DESIGN SPECIFICATIONS: AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS 2009, 5TH EDITION.
3. ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.
4. USE CLASS A CEMENT CONCRETE $f'c = 3000$ PSI IN PEDESTALS AND FOOTINGS.
5. CHAMFER EXPOSED CONCRETE EDGES 1" X 1" EXCEPT AS NOTED.
6. PROVIDE A MINIMUM OF 2" CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.
7. PROVIDE GRADE 60 REINFORCEMENT BARS THAT MEET THE REQUIREMENTS OF ASTM A615/A 615-96A FOR CONCRETE REINFORCEMENT. DO NOT WELD REINFORCEMENT BARS.
8. USE UNCOATED REINFORCEMENT BARS.
9. PROVIDE MINIMUM LAP AND EMBEDMENT LENGTH OF 20 DIAMETERS OR IN ACCORDANCE WITH AASHTO.
10. RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS EXCEPT AS NOTED.
11. THE DESIGN WIND VELOCITY IS 90 MPH.
12. THE DESIGN ICE LOAD IS 3 PSF.
13. ALL STRUCTURAL DETAILS HAVE BEEN DESIGNED FOR FATIGUE RESISTANCE UNDER THE FOLLOWING FATIGUE LOADS:
 - NATURAL WIND GUST (5.2 * Cd PSF)
 - TRUCK INDUCED GUSTS (18.8 * Cd PSF)
14. PROVIDE STRUCTURAL STEEL CONFORMING TO THE FOLLOWING:
 - ASTM A 53, GRADE B, $Fy = 35$ KSI FOR PIPE COLUMNS, CHORDS AND STRUTS.
 - AASHTO M 270M, GRADE 36, (ASTM A709M, GRADE 36) FOR SHAPES AND PLATES.
 ALL STEEL SHALL MEET SUPPLEMENTARY REQUIREMENTS FOR NOTCH TOUGHNESS. (CHARPY TESTING, ZONE #2 NON-FRACTURE CRITICAL).
15. PROVIDE ANCHOR BOLT HOLES 1/4" LARGER THAN BOLT DIAMETER FOR BASE PLATE. PROVIDE BOLT HOLES 1/4" LARGER THAN BOLT DIAMETER FOR ANCHOR PLATE.
16. USE TEMPLATES TO ACCURATELY SET BASE PLATE ANCHOR BOLTS TO CORRECT ELEVATION AND ALIGNMENT. SECURELY BRACE ANCHOR BOLTS AGAINST DISPLACEMENT BEFORE PEDESTAL CONCRETE IS PLACE AND DURING CONCRETE CURING.
17. GROUT PADS SHALL NOT BE USED. BASE PLATES AND EXPOSED ANCHOR BOLTS SHALL BE PLACED SO RUN-OFF AND/OR RAIN WATER CANNOT RUN ONTO OR POND AT THIS AREA.
18. PROVIDE DOUBLE NUTS AND WASHERS FOR EACH ANCHOR BOLT.
19. GALVANIZED HIGH STRENGTH BOLTS SHALL CONFORM TO AASHTO M164/ASTM A325.
20. GALVANIZED HEAT TREATED NUTS SHALL CONFORM TO AASHTO M292/ASTM A1494 OR AASHTO M291/ASTM A563 GRADE 2H, DH. GALVANIZED HARDENED STEEL WASHERS SHALL CONFORM TO AASHTO M293/ASTM F436.
21. GALVANIZED ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM F1554 GRADE 55.

22. INSTALL ACCESS HOLES ON POLE OPPOSITE DIRECTION OF TRAFFIC.
23. DIMENSIONS ARE BASED ON A NORMAL TEMPERATURE OF 68° F.
24. VERIFY ALL ELEVATIONS AND DIMENSIONS IN THE FIELD.
25. FOOTINGS WILL BE POURED AGAINST FILL COMPACTED TO 98% RELATIVE MAXIMUM DENSITY OR ON UNDISTURBED MATERIAL.
26. DIVERT ALL SURFACE RUNOFF AWAY FROM EXCAVATIONS. PERFORM ALL EXCAVATIONS IN ACCORDANCE WITH OSHA REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT DEWATERING SO THAT EXCAVATIONS ARE DRY ENOUGH FOR INSPECTION AND CONSTRUCTION.
27. COORDINATE, LOCATE AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH DELDOT UTILITIES MANUAL.
28. VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO STARTING WORK. CONDUCT OPERATIONS IN A MANNER WHICH ENSURES THAT THE UTILITIES WILL NOT BE DISTURBED OR ENDANGERED, AND ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO UTILITIES DURING CONSTRUCTION. THE DEPARTMENT DOES NOT ASSUME RESPONSIBILITY FOR REIMBURSEMENT, PARTICIPATION IN DESIGN AND/OR REVISIONS, OR LIABILITY FOR ACCURACY OF TYPE, SIZE AND LOCATION OF ANY UTILITY.
29. WELDING OF STEEL SHALL BE AS SPECIFIED IN THE CONSTRUCTION SPECIFICATIONS.
30. PIPE, COLUMNS AND CHORDS ARE DENOTED BY DIAMETER AND THICKNESS.
31. DESIGN AND PROVIDE TEMPORARY SUPPORTS AS REQUIRED TO RETAIN EXCAVATED EARTH SURFACES IN ACCORDANCE WITH SPECIFICATIONS.
32. PROVIDE CONNECTIONS AT SUPPORTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SHOP DRAWINGS FOR STRUCTURAL STEEL SHALL BE SUBMITTED FOR APPROVAL.
33. VERIFY THE LOCATION OF ALL CONDUIT ROUGH-INS WITH THE EQUIPMENT MANUFACTURER AND COMMISSION'S REPRESENTATIVE, PRIOR TO PLACEMENT OF CONCRETE FOUNDATIONS.
34. PRIOR TO FABRICATION, CONTRACTOR MUST VERIFY CLEARANCE AND ADJUST THE PROPOSED MOUNTING HEIGHT ACCORDINGLY AND AS DIRECTED BY DELDOT.
35. TRUSS CAMBER SHALL BE INCORPORATED DURING FABRICATION. THE CONTRACTOR SHALL ACHIEVE CAMBER BY TILTING THE POLE AND ADJUSTING LEVELING NUTS DURING INSTALLATION.

STRUCTURAL ABBREVIATIONS

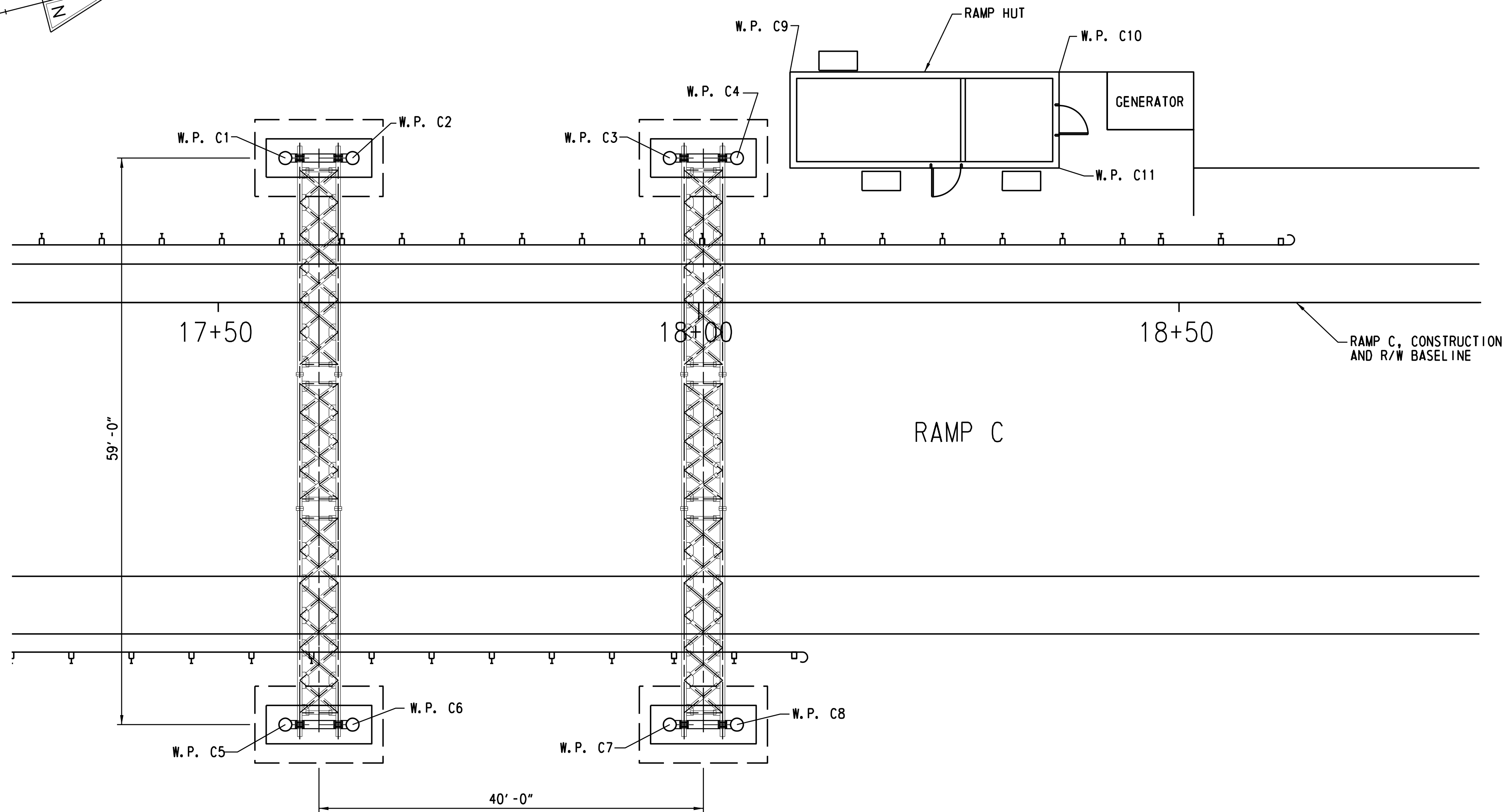
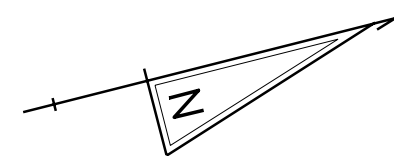
AL. OR ALUM.	ALUMINUM	LLH	LONG LEG HORIZONTAL
APPROX.	APPROXIMATE	LLV	LONG LEG VERTICAL
B/B	BACK TO BACK	LP	LOW POINT
BOTT.	BOTTOM	MAX.	MAXIMUM
B/	BOTTOM OF	MIN.	MINIMUM
BTWN	BETWEEN	NO.	NUMBER
CJ	CONSTRUCTION JOINT	N.T.S.	NOT TO SCALE
C/C	CENTER TO CENTER	O/C	ON CENTER
CIR	CIRCULAR	O.D.	OUTSIDE DIAMETER
CL	CENTERLINE	OPP.	OPPOSITE
CLR	CLEAR	R	PLATE
CMU	CONCRETE MASONRY UNIT	PSF	POUNDS PER SQUARE FOOT
COL	COLUMN	PSI	POUNDS PER SQUARE INCH
CONC.	CONCRETE	R	RISER
CONST.	CONSTRUCTION	RAD.	RADIUS
CONT	CONTINUOUS	REINF.	REINFORCEMENT
DIA.	DIAMETER	REQ'D	REQUIRED
EA.	EACH	SC	SLIP CRITICAL
EF	EACH FACE	SCH	SCHEDULE
EL OR ELEV	ELEVATION	SF	SQUARE FOOT
EMBED.	EMBEDMENT	SIM	SIMILAR
EQ.	EQUAL	SPA.	SPACES
EQUIP.	EQUIPMENT	SQ.	SQUARE
EW	EACH WAY	S.S.	STAINLESS STEEL
EXIST	EXISTING	ST	STRUCTURAL TUBE
EXP.	EXPANSION	STD.	STANDARD
EXT.	EXTERIOR	T	TREAD
FD	FLOOR DRAIN	T&B	TOP AND BOTTOM
FIN.	FINISHED	T/	TOP OF
FLR.	FLOOR	TYP.	TYPICAL
FT	FEET	U.N.O.	UNLESS NOTED OTHERWISE
FTG.	FOOTING	W/	WITH
HORIZ.	HORIZONTAL	WWF	WELDED WIRE FABRIC
HP	HIGH POINT		
I.D.	INSIDE DIAMETER		
INT.	INTERIOR		
JT.	JOINT		
KSF	THOUSAND POUNDS PER SQUARE FOOT		

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ST-01

 DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	STRUCTURAL GENERAL NOTES & ABBREVIATIONS	SHEET NO.
				T200911303	DESIGNED BY: AB		1190
				COUNTY	CHECKED BY: CAM		TOTAL SHTS.
				NEW CASTLE			1256



RAMP C - GANTRY PLAN
SCALE: 1/8" = 1' - 0"

- NOTES:
1. FOR GENERAL NOTES, SEE SHEET ST-01.
 2. FOR GANTRY ELEVATION, SEE SHEET ST-06.
 3. FOR FOUNDATION DETAILS, SEE SHEET ST-08.
 4. FOR GANTRY STRUCTURE DETAILS, SEE SHEETS ST-09, ST-10, AND ST-11.
 5. FOR EQUIPMENT HUT FOUNDATION AND SLAB, AND GENERATOR SLAB, SEE SHEET ST-12.

WORKING POINT COORDINATES				
WORKING POINTS	NORTHING	EASTING	STATION	OFFSET
W. P. C1	526819.4172	562208.2670	17+56.98	11.04 LT.
W. P. C2	526826.2012	562209.9925	17+63.98	11.04 LT.
W. P. C3	526858.1829	562218.1270	17+96.98	11.04 LT.
W. P. C4	526864.9669	562219.8525	18+03.98	11.04 LT.
W. P. C5	526804.8735	562265.4463	17+56.98	47.96 RT.
W. P. C6	526811.6575	562267.1718	17+63.98	47.96 RT.
W. P. C7	526843.6392	562275.3063	17+96.98	47.96 RT.
W. P. C8	526850.4232	562277.0319	18+03.98	47.96 RT.
W. P. C9	526872.5352	562212.5317	18+09.51	24.00 LT.
W. P. C10	526899.6712	562219.4337	18+37.51	24.00 LT.
W. P. C11	526897.2062	562229.1251	18+37.51	14.00 LT.

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ST-02

LAST REVISED: 3/12/2008
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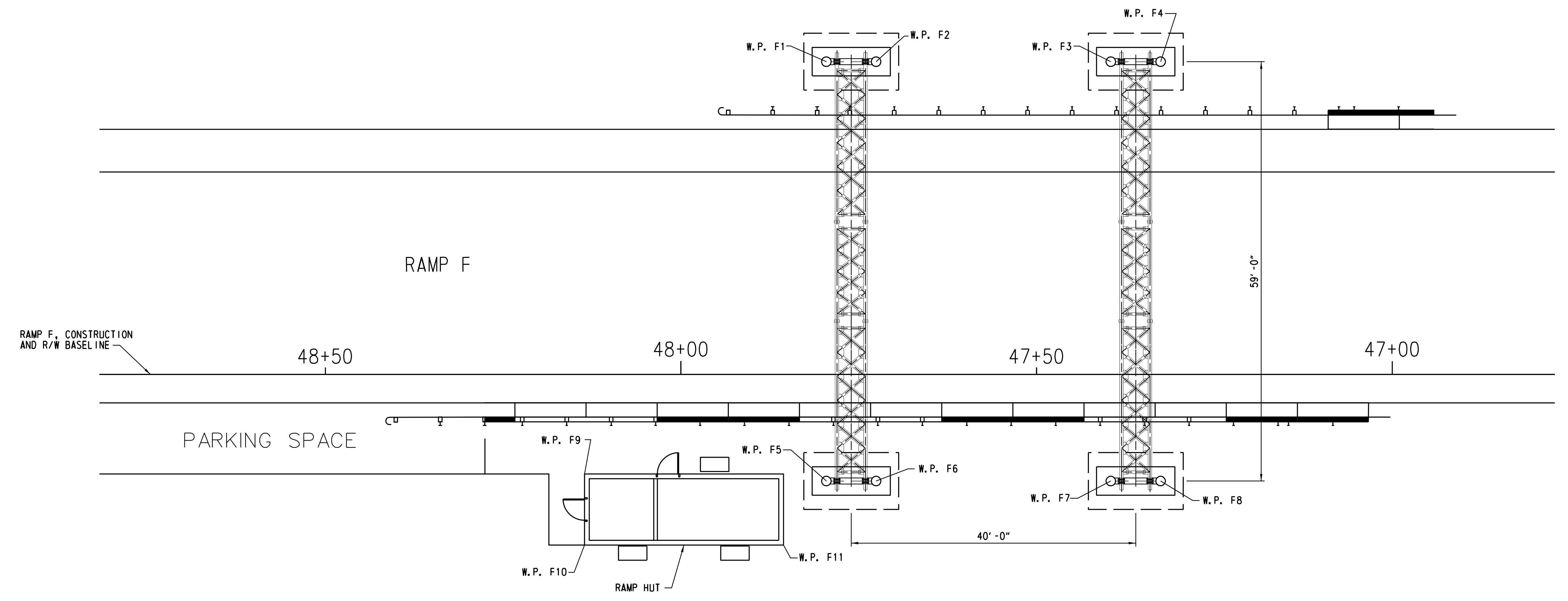
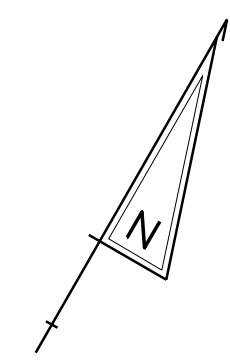
ADDENDUMS / REVISIONS

US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: AB
NEW CASTLE	CHECKED BY: CAM

STRUCTURAL
GANTRY PLAN
RAMP C

SHEET NO.
1191
TOTAL SHTS.
1256



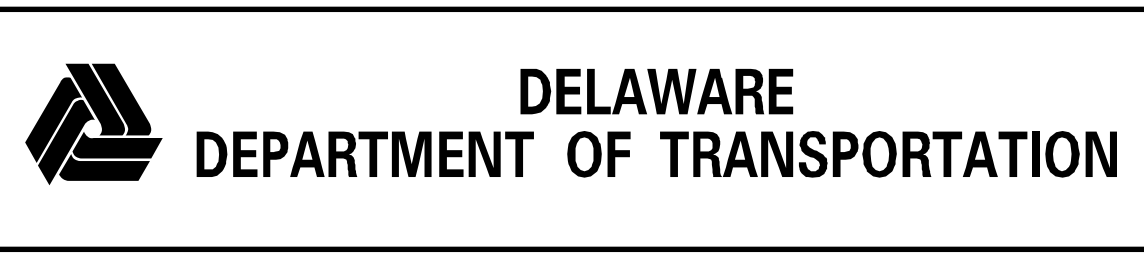
RAMP F - GANTRY PLAN
SCALE: 1/8" = 1' - 0"

WORKING POINT COORDINATES				
WORKING POINTS	NORTHING	EASTING	STATION	OFFSET
W. P. F1	527192.5766	561696.5684	47+79.57	44.00 RT.
W. P. F2	527196.0663	561702.6365	47+72.57	44.00 RT.
W. P. F3	527212.5181	561731.2431	47+39.57	44.00 RT.
W. P. F4	527216.0078	561737.3112	47+32.57	44.00 RT.
W. P. F5	527141.4313	561725.9819	47+79.57	15.00 LT.
W. P. F6	527144.9210	561732.0500	47+72.57	15.00 LT.
W. P. F7	527161.3728	561760.6566	47+39.57	15.00 LT.
W. P. F8	527164.8625	561766.7247	47+32.57	15.00 LT.
W. P. F9	527125.3393	561696.0092	48+13.58	14.00 LT.
W. P. F10	527116.6706	561700.9945	48+13.58	24.00 LT.
W. P. F11	527130.6296	561725.2669	47+85.58	24.00 LT.

- NOTES:
- FOR GENERAL NOTES, SEE SHEET ST-01.
 - FOR GANTRY ELEVATION, SEE SHEET ST-06.
 - FOR FOUNDATION DETAILS, SEE SHEET ST-08.
 - FOR GANTRY STRUCTURE DETAILS, SEE SHEETS ST-09, ST-10, AND ST-11.
 - FOR EQUIPMENT HUT FOUNDATION AND SLAB, SEE SHEET ST-12.

FOR INFORMATION ONLY / WORK BY OTHERS ST-03

LAST REVISED: 3/12/2008
HN:50343_TOLL-PLAZA\GENERAL\XREFS\SB_A1_AECOM.DGN

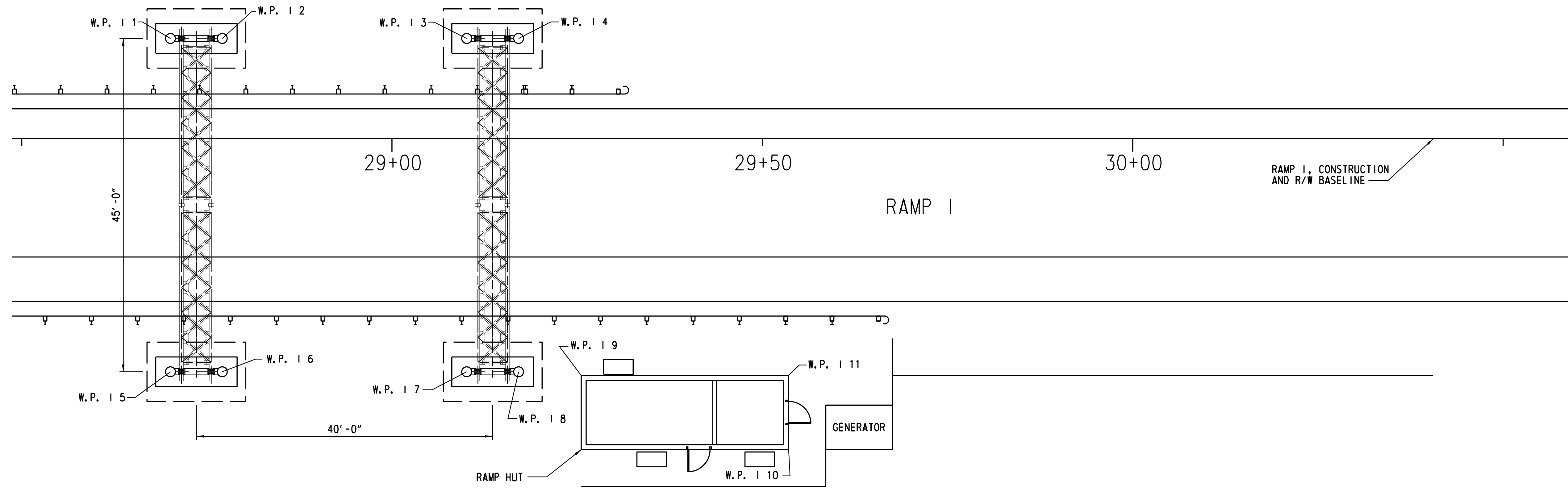
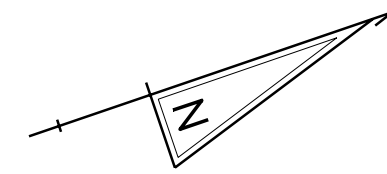


ADDENDUMS / REVISIONS	

**US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: AB
	CHECKED BY: CAM

STRUCTURAL GANTRY PLAN RAMP F	SHEET NO. 1192
	TOTAL SHTS. 1256



WORKING POINT COORDINATES				
WORKING POINTS	NORTHING	EASTING	STATION	OFFSET
W.P. 1 1	540992.6199	570289.6119	28+70.08	13.50 LT.
W.P. 1 2	540999.2457	570291.8699	28+77.08	13.50 LT.
W.P. 1 3	541030.4817	570302.5150	29+10.08	13.50 LT.
W.P. 1 4	541037.1075	570304.7731	29+17.08	13.50 LT.
W.P. 1 5	540978.1038	570332.2062	28+70.08	31.50 RT.
W.P. 1 6	540984.7296	570334.4643	28+77.08	31.50 RT.
W.P. 1 7	541015.9655	570345.1093	29+10.08	31.50 RT.
W.P. 1 8	541022.5913	570347.3674	29+17.08	31.50 RT.
W.P. 1 9	541030.4418	570350.5758	29+25.55	42.00 RT.
W.P. 1 10	541053.7192	570369.0735	29+53.55	42.00 RT.
W.P. 1 11	541056.9449	570359.6081	29+53.55	32.00 RT.

RAMP I - GANTRY PLAN
SCALE: 1/8" = 1' - 0"

- NOTES:
1. FOR GENERAL NOTES, SEE SHEET ST-01.
 2. FOR GANTRY ELEVATION, SEE SHEET ST-07.
 3. FOR FOUNDATION DETAILS, SEE SHEET ST-08.
 4. FOR GANTRY STRUCTURE DETAILS, SEE SHEETS ST-09, ST-10, AND ST-11.
 5. FOR EQUIPMENT HUT FOUNDATION AND SLAB, AND GENERATOR SLAB, SEE SHEET ST-12.

FOR INFORMATION ONLY / WORK BY OTHERS

ST-04



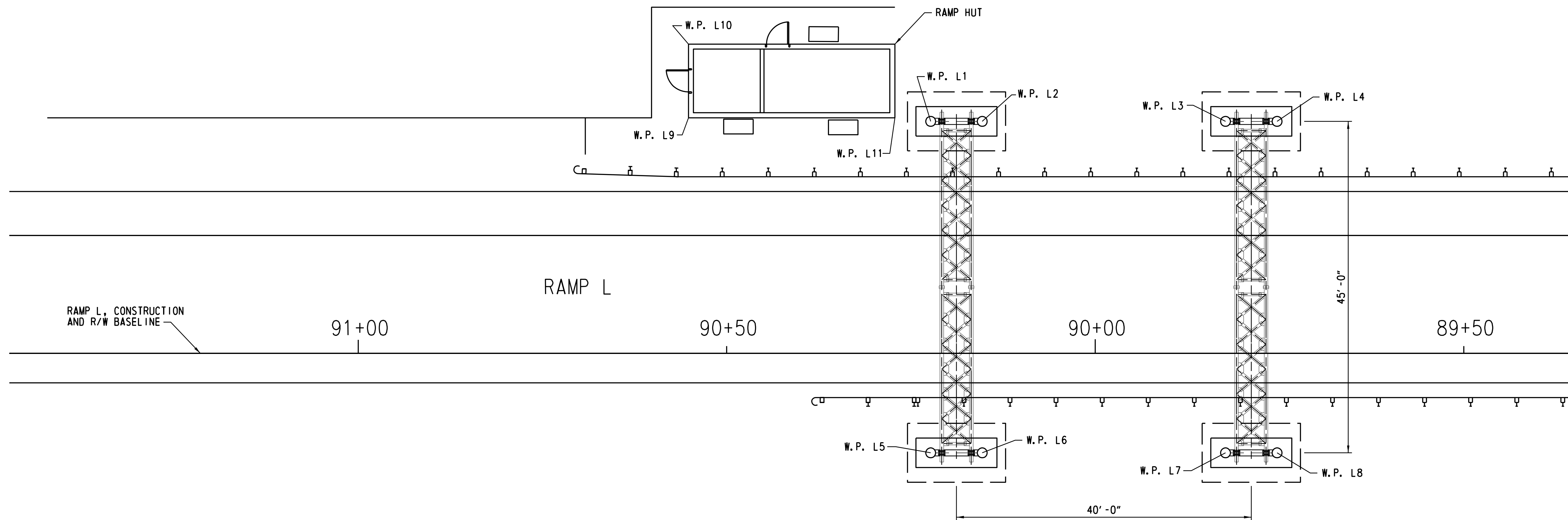
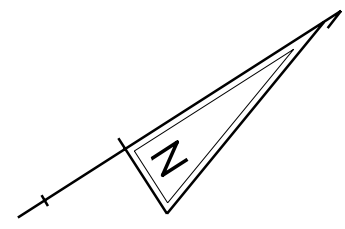
ADDENDUMS / REVISIONS

US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: AB
NEW CASTLE	CHECKED BY: CAM

STRUCTURAL
GANTRY PLAN
RAMP I

SHEET NO.
1193
TOTAL SHTS.
1256



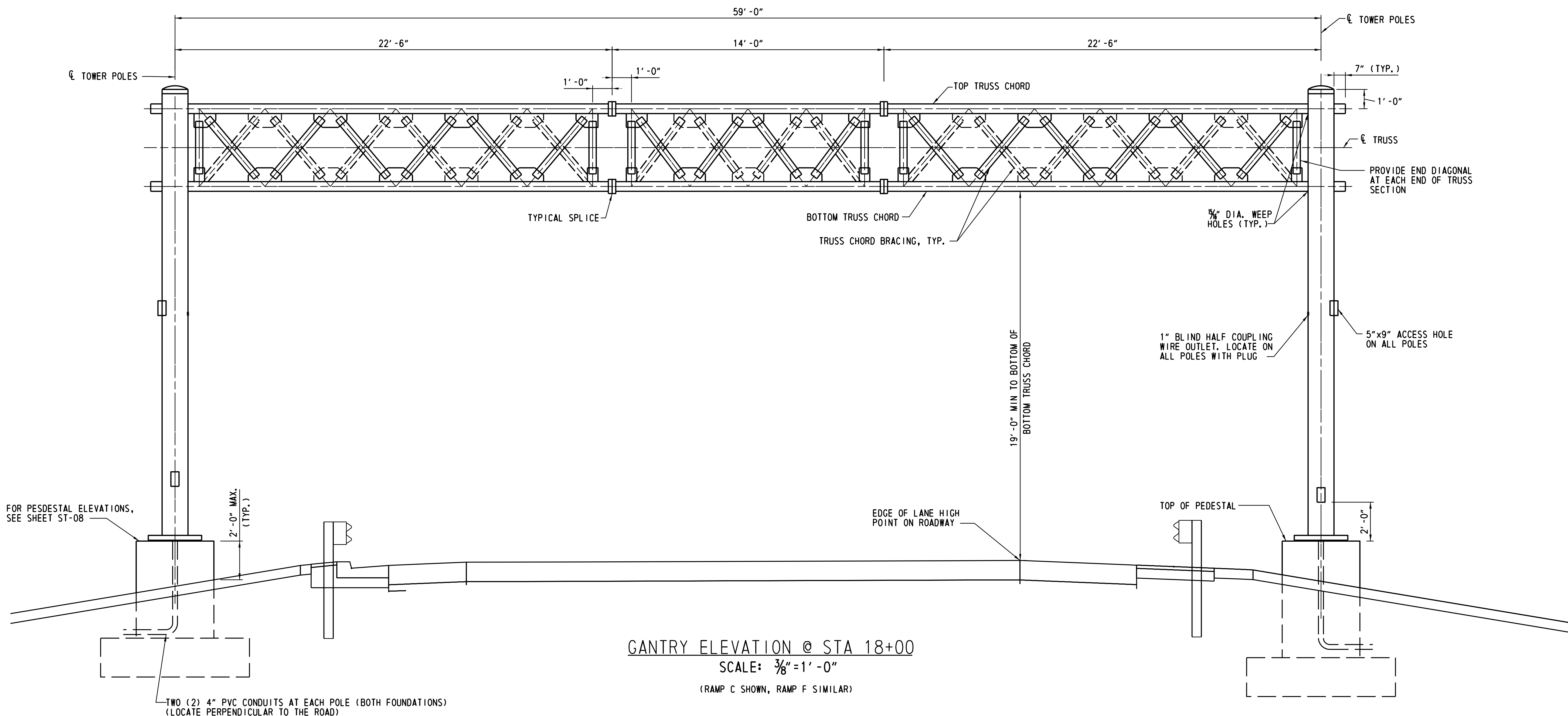
RAMP L - GANTRY PLAN
SCALE: 1/8" = 1' - 0"

WORKING POINT COORDINATES				
WORKING POINTS	NORTHING	EASTING	STATION	OFFSET
W. P. L1	541145.7880	570031.3148	90+22.33	31.50 RT.
W. P. L2	541151.6888	570035.0805	90+15.33	31.50 RT.
W. P. L3	541179.5072	570052.8327	89+82.33	31.50 RT.
W. P. L4	541185.4080	570056.5983	89+75.33	31.50 RT.
W. P. L5	541121.5803	570069.2488	90+22.33	13.50 LT.
W. P. L6	541127.4811	570073.0145	90+15.33	13.50 LT.
W. P. L7	541155.2995	570090.7666	89+82.33	13.50 LT.
W. P. L8	541161.2003	570094.5323	89+75.33	13.50 LT.
W. P. L9	541118.3516	570013.2153	90+55.19	32.00 RT.
W. P. L10	541123.7311	570004.7856	90+55.19	42.00 RT.
W. P. L11	541141.9550	570028.2779	90+27.19	42.00 RT.

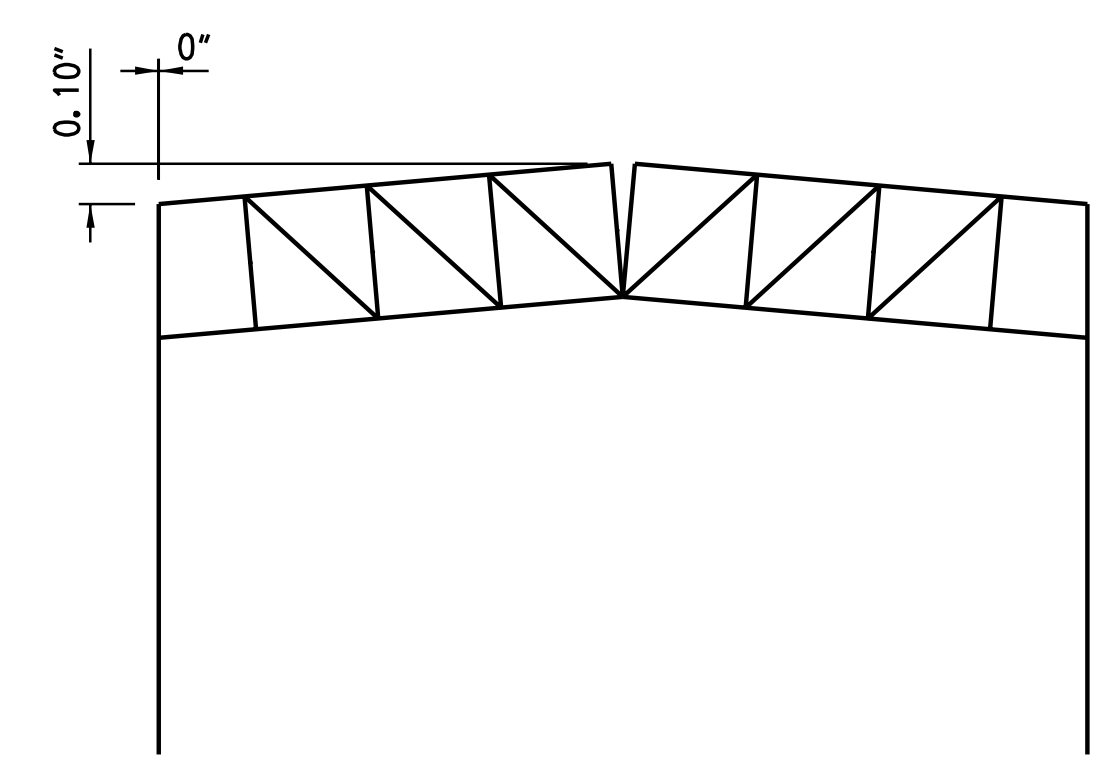
- NOTES:
1. FOR GENERAL NOTES, SEE SHEET ST-01.
 2. FOR GANTRY ELEVATION, SEE SHEET ST-07.
 3. FOR FOUNDATION DETAILS, SEE SHEET ST-08.
 4. FOR GANTRY STRUCTURE DETAILS, SEE SHEETS ST-09, ST-10, AND ST-11.
 5. FOR EQUIPMENT HUT FOUNDATION AND SLAB, SEE SHEET ST-12.

FOR INFORMATION ONLY / WORK BY OTHERS

ST-05



GANTRY ELEVATION @ STA 18+00
 SCALE: 3/8" = 1'-0"
 (RAMP C SHOWN, RAMP F SIMILAR)



GANTRY CAMBER DIAGRAM
 SCALE: NTS

- NOTES:
1. FOR GENERAL NOTES, SEE SHEET ST-01.
 2. FOR STRUCTURE DETAILS, SEE SHEETS ST-09, ST-10, AND ST-11.
 3. FOR FOUNDATION DETAILS, SEE SHEET ST-08.

FOR INFORMATION ONLY / WORK BY OTHERS

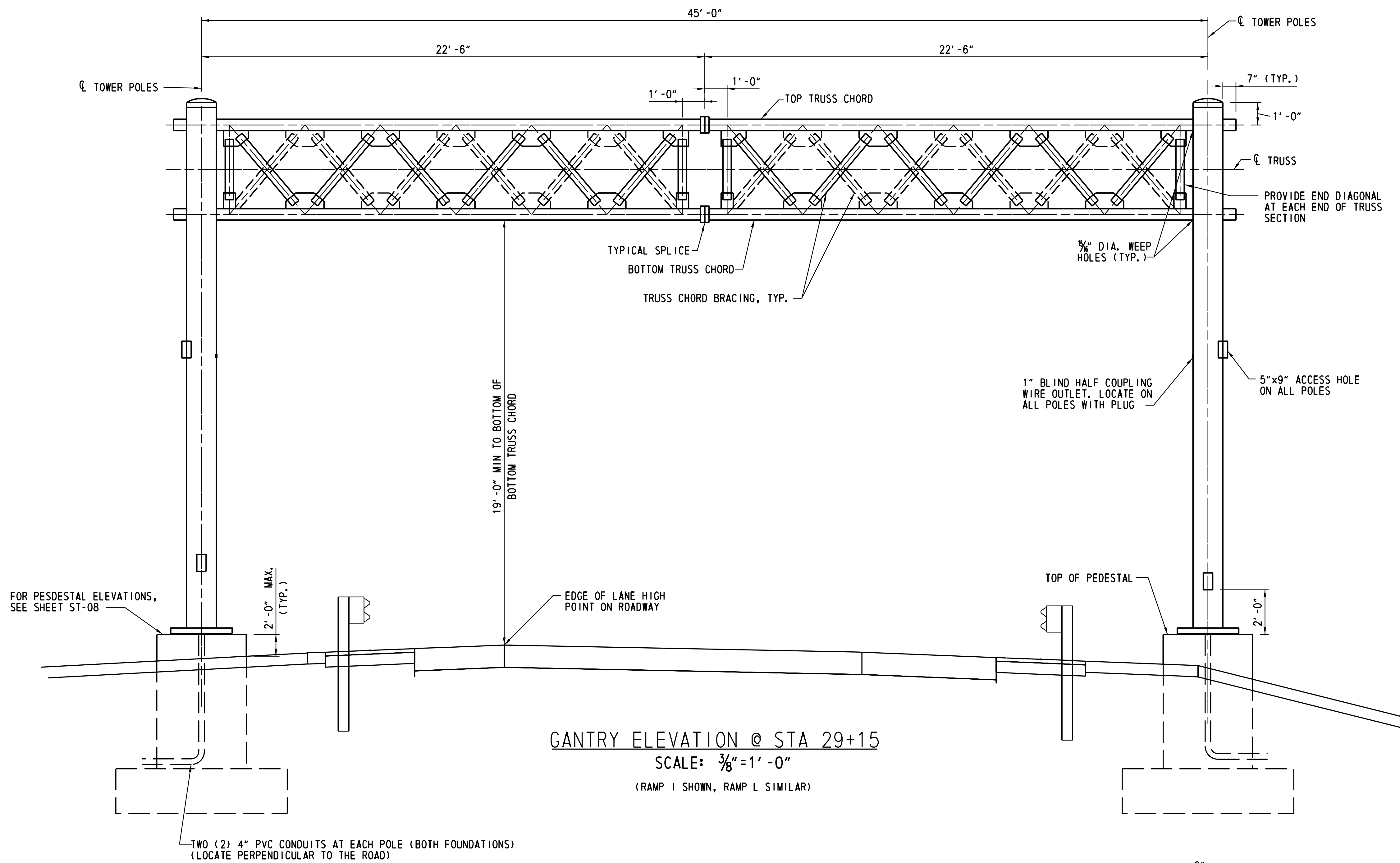
ST-06

ADDENDUMS / REVISIONS

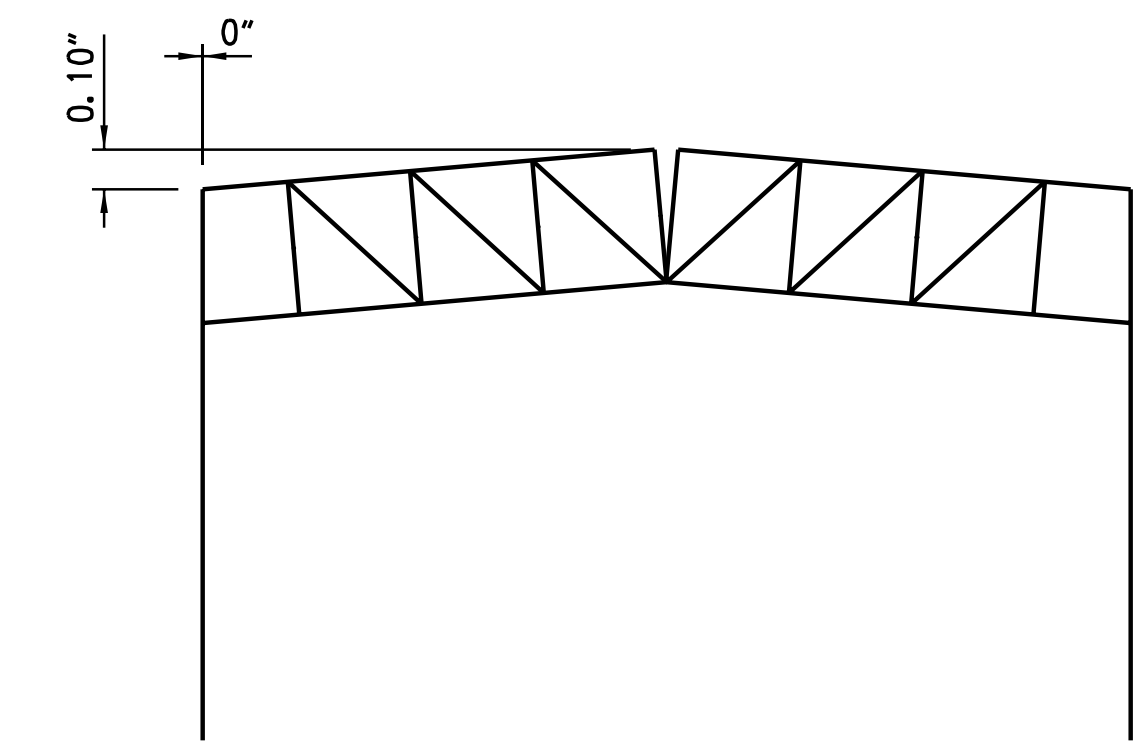
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: AB
	CHECKED BY: CAM

SHEET NO. 1195
TOTAL SHTS. 1256

LAST REVISED: 3/12/2008
 H:\50343_TOLL_PLAZA\GENERAL\REFS\SB_A1_AECOM.DGN



GANTRY ELEVATION @ STA 29+15
 SCALE: 3/8" = 1' - 0"
 (RAMP I SHOWN, RAMP L SIMILAR)



GANTRY CAMBER DIAGRAM
 SCALE: NTS

- NOTES:
1. FOR GENERAL NOTES, SEE SHEET ST-01.
 2. FOR STRUCTURE DETAILS, SEE SHEETS ST-09, ST-10, AND ST-11.
 3. FOR FOUNDATION DETAILS, SEE SHEET ST-08.

FOR PEDESTAL ELEVATIONS,
 SEE SHEET ST-08

2'-0" MAX.
 (TYP.)

EDGE OF LANE HIGH
 POINT ON ROADWAY

TOP OF PEDESTAL

2'-0"

TWO (2) 4" PVC CONDUITS AT EACH POLE (BOTH FOUNDATIONS)
 (LOCATE PERPENDICULAR TO THE ROAD)

19'-0" MIN TO BOTTOM OF
 BOTTOM TRUSS CHORD

1" BLIND HALF COUPLING
 WIRE OUTLET, LOCATE ON
 ALL POLES WITH PLUG

5"x9" ACCESS HOLE
 ON ALL POLES

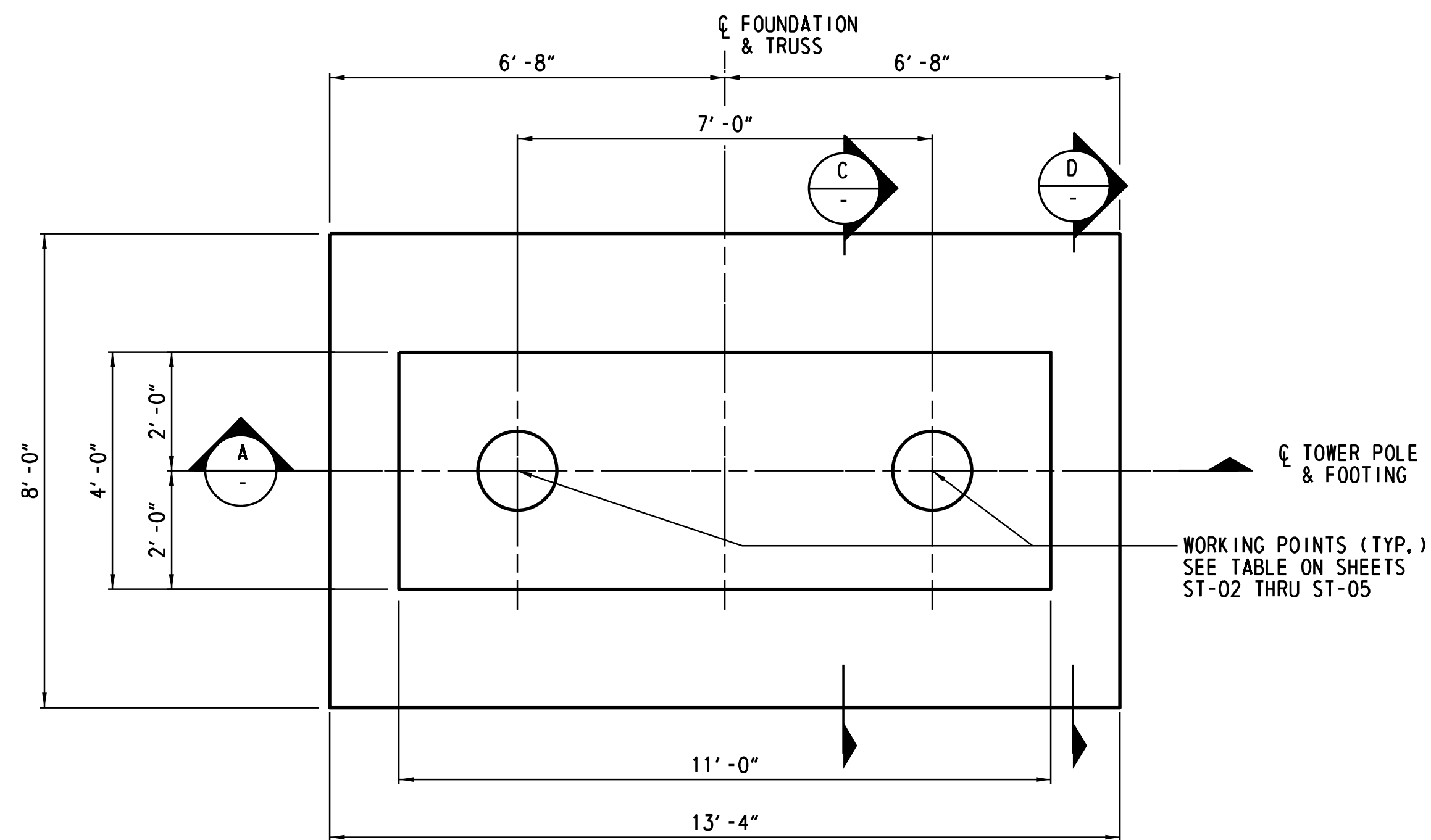
LAST REVISED: 3/12/2008
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ADDENDUMS / REVISIONS

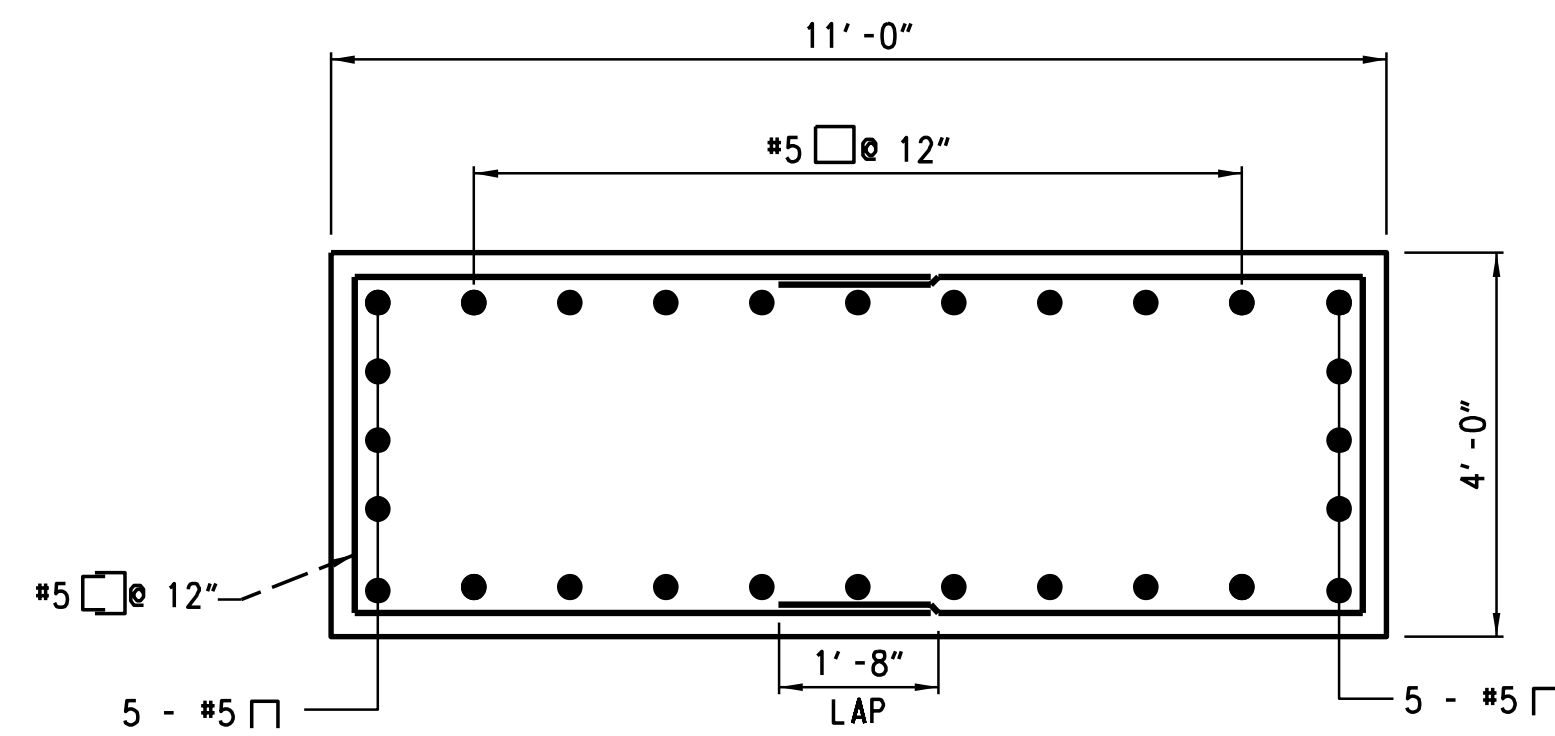
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: AB
NEW CASTLE	CHECKED BY: CAM

FOR INFORMATION ONLY / WORK BY OTHERS	

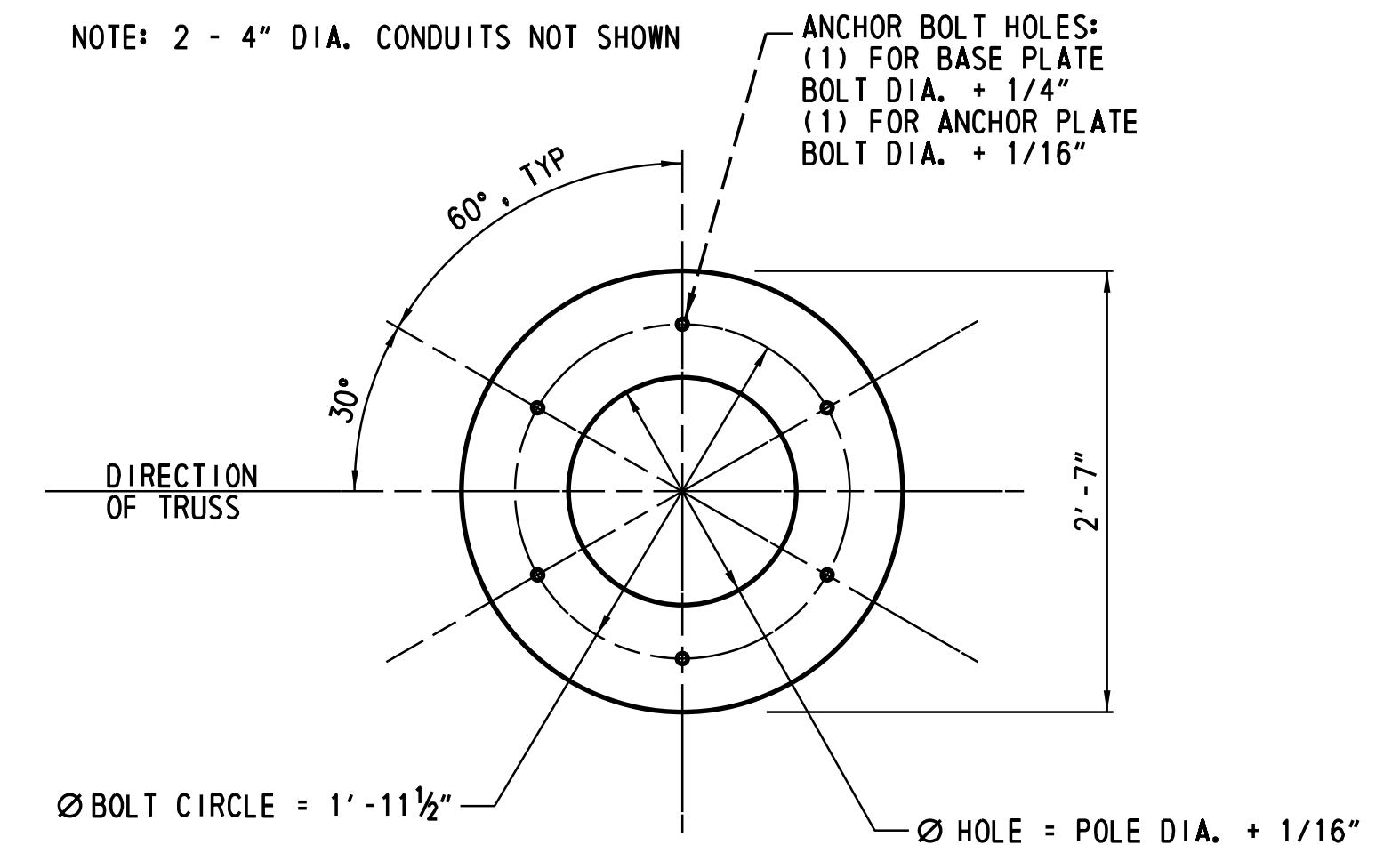
STRUCTURAL GANTRY ELEVATION RAMPS I & L	SHEET NO.
	1196
	TOTAL SHTS.
	1256



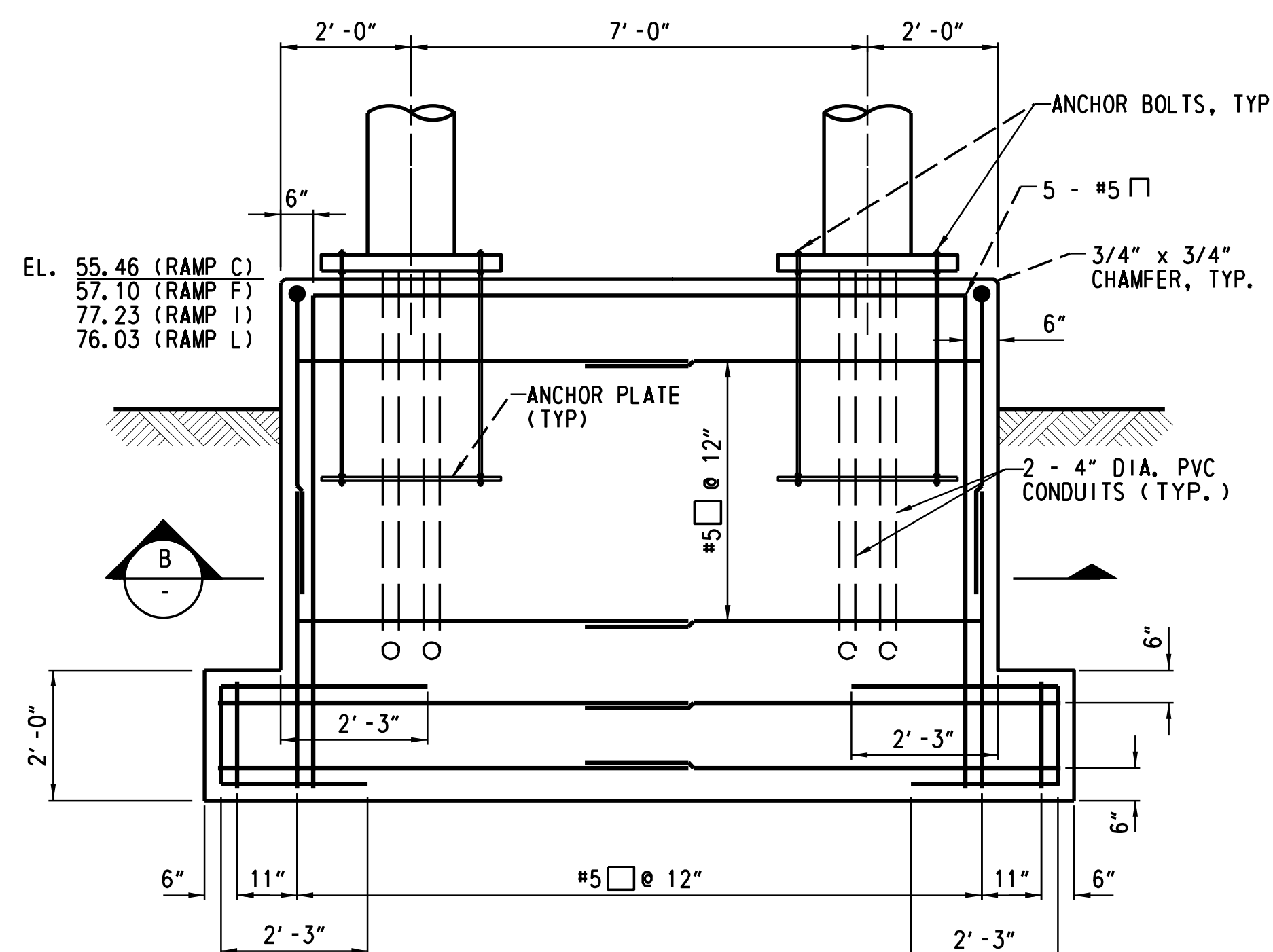
PLAN
SCALE: 1/2"=1'-0"



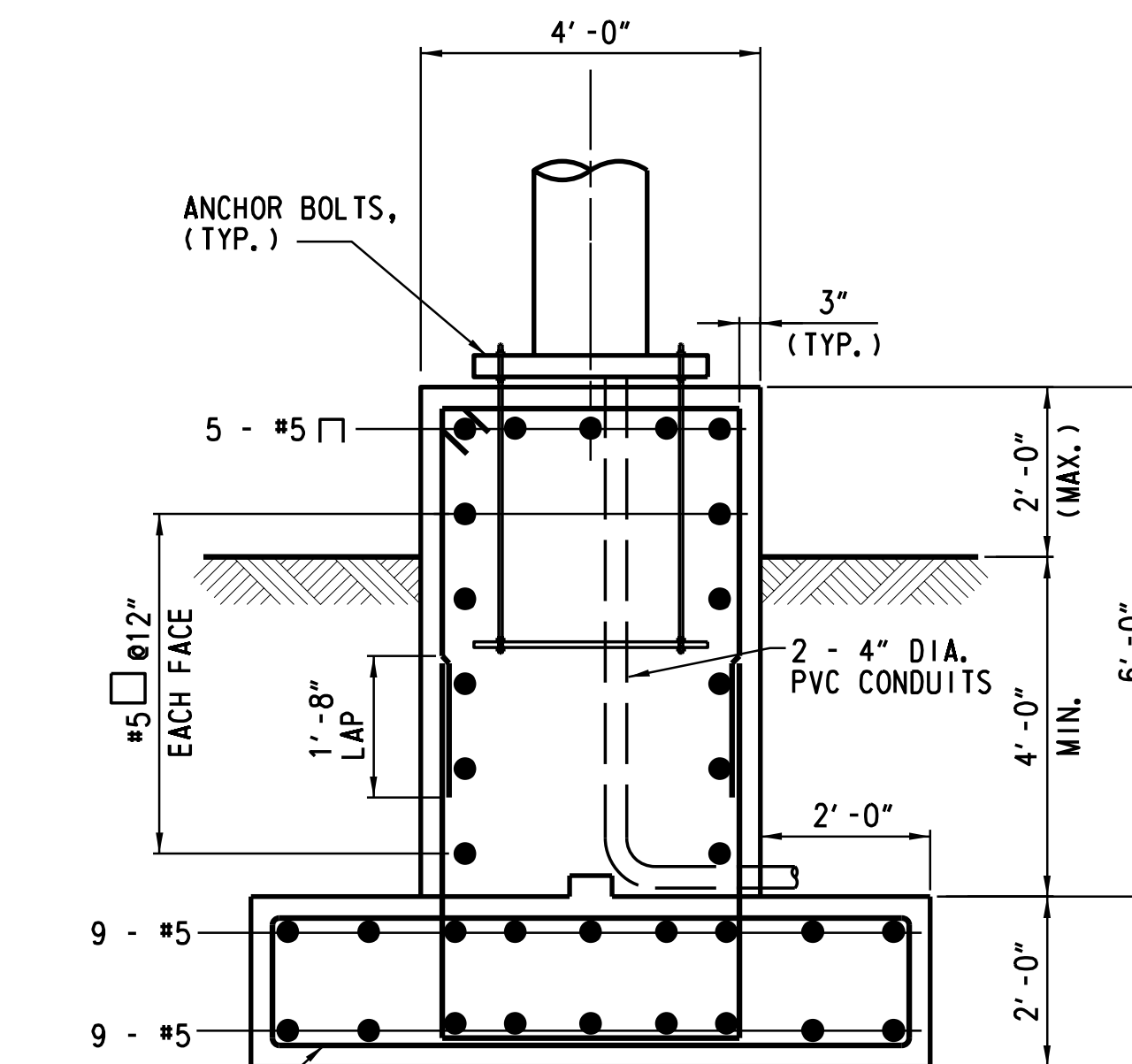
SECTION B
SCALE: 1/2"=1'-0"
NOTE: 2 - 4" DIA. CONDUITS NOT SHOWN



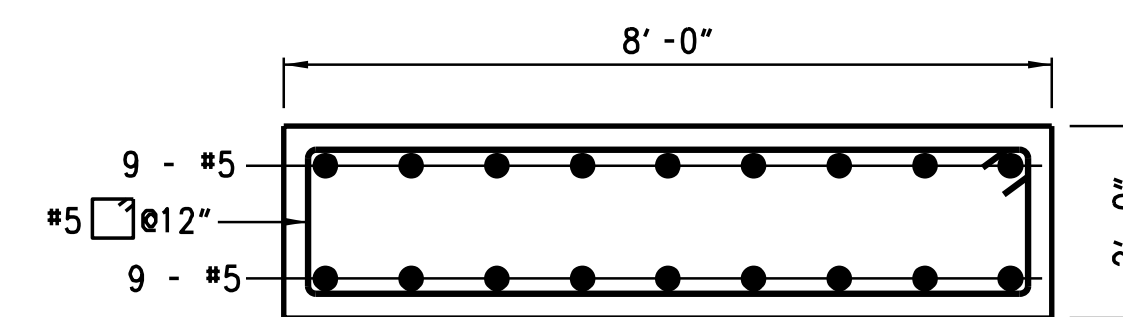
BASE PLATE PLAN VIEW
SCALE: 1"=1'-0"



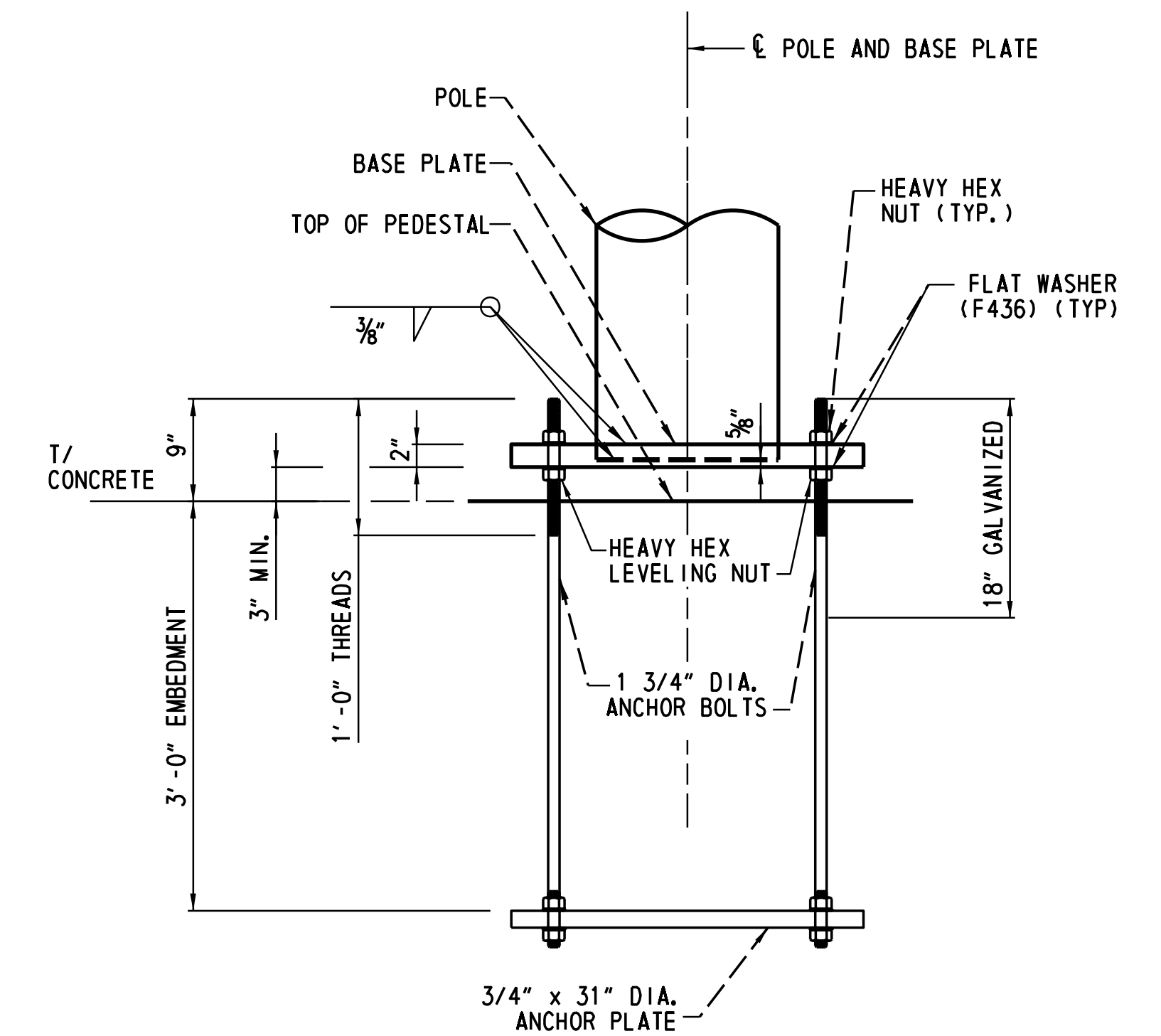
SECTION A
SCALE: 1/2"=1'-0"



SECTION C
SCALE: 1/2"=1'-0"



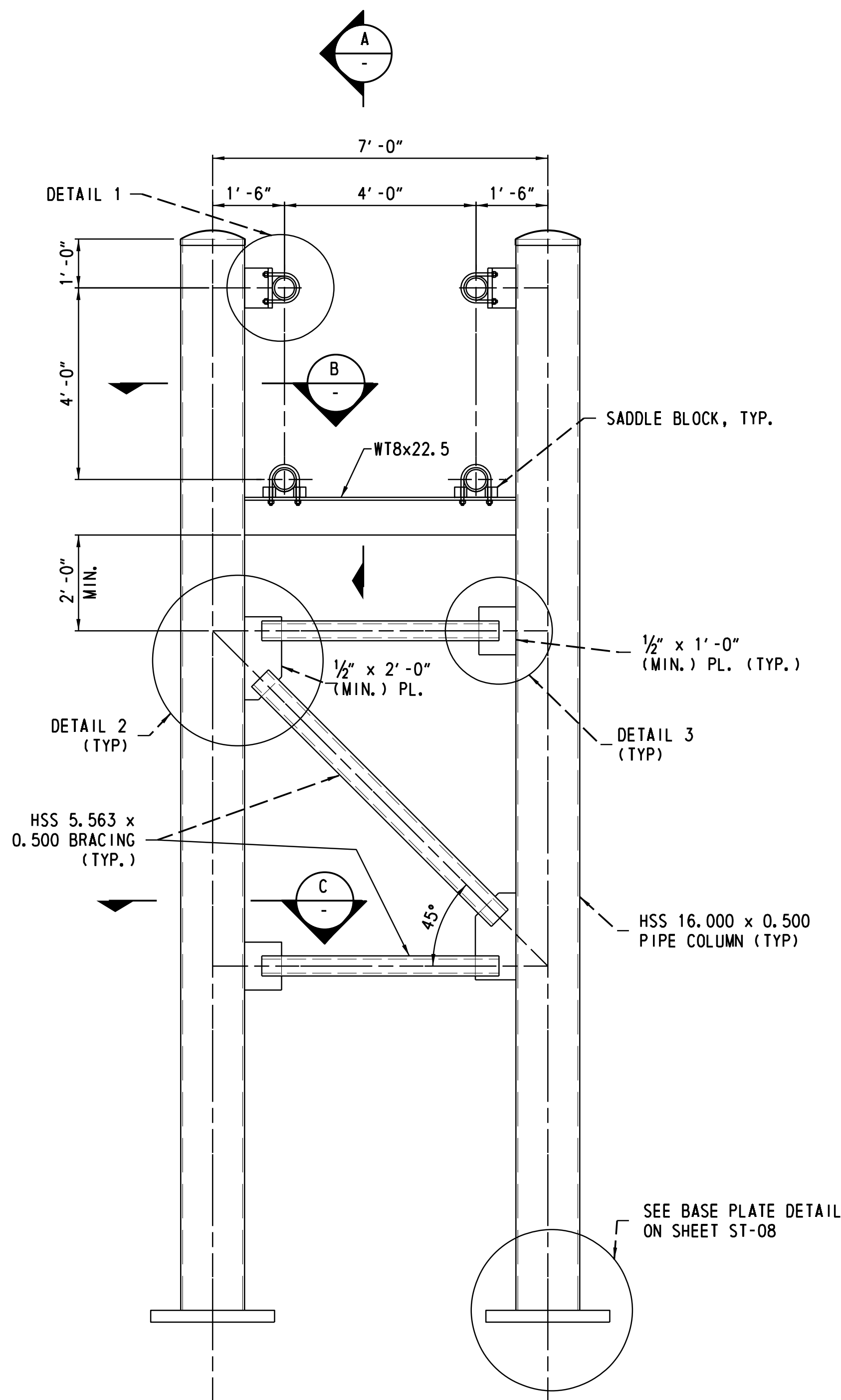
SECTION D
SCALE: 1/2"=1'-0"



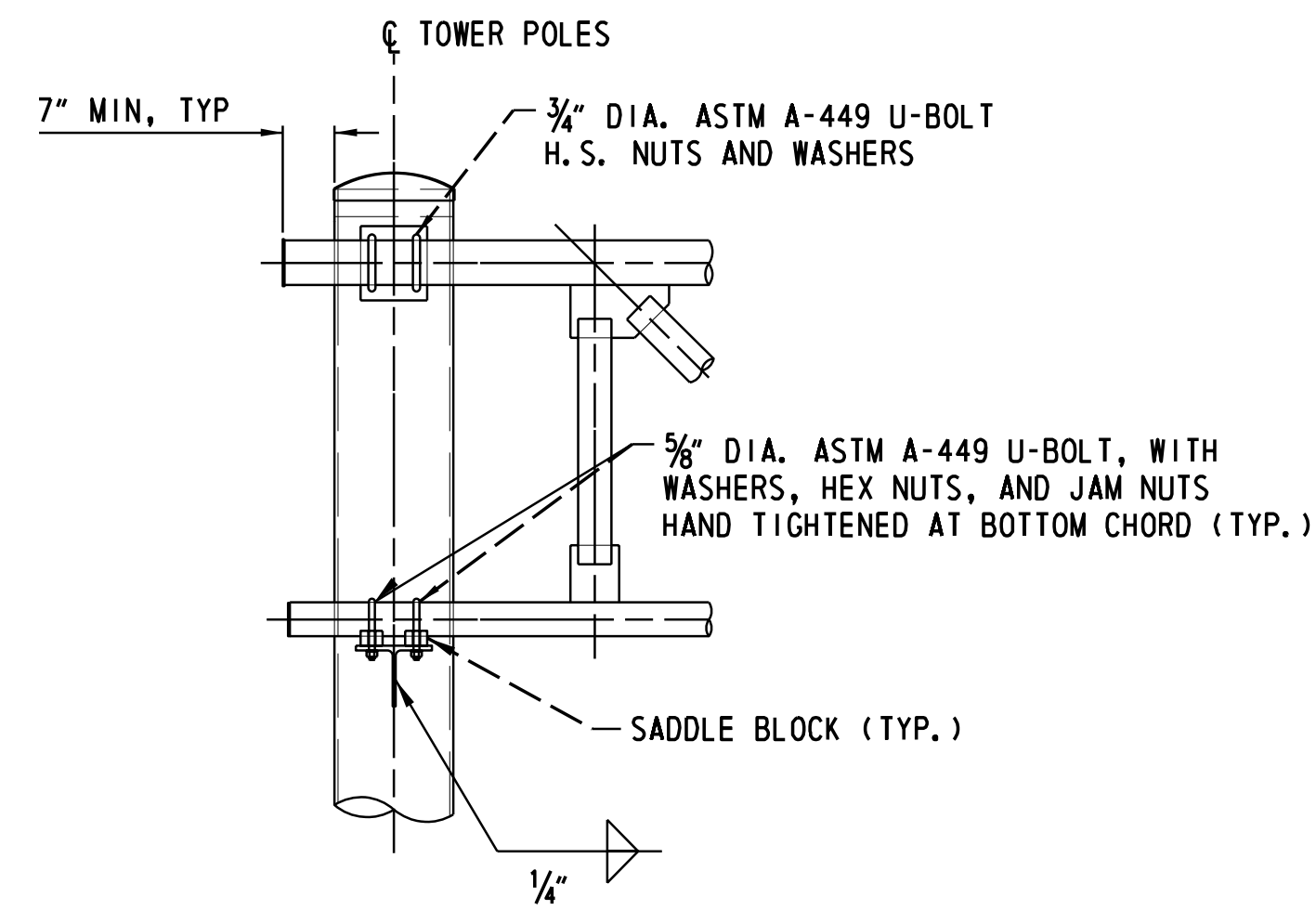
BASE PLATE & ANCHOR PLATE DETAIL
SCALE: 1"=1'-0"

NOTE: 2 - 4" DIA. CONDUITS NOT SHOWN

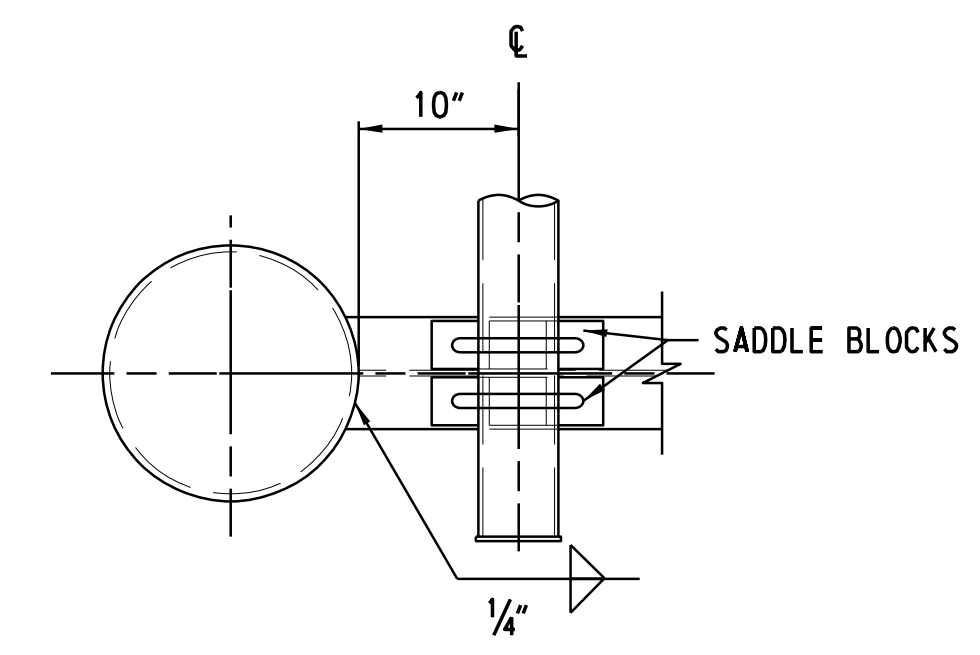
LAST REVISED: 3/12/2008
HN:50343_TOLL_PLAZA\GENERAL\XREFS\SB_A1_AECO.MDGN



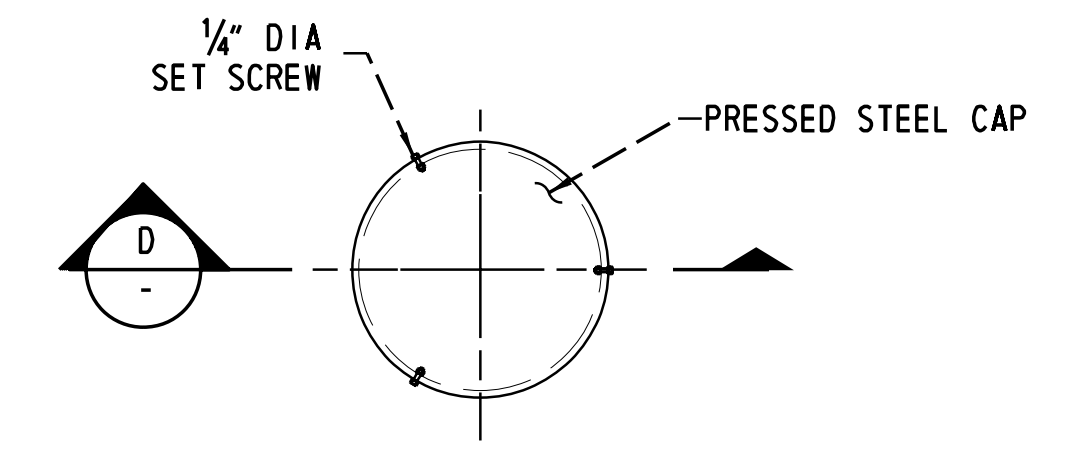
TOWER ELEVATION
SCALE: 1/2"=1'-0"



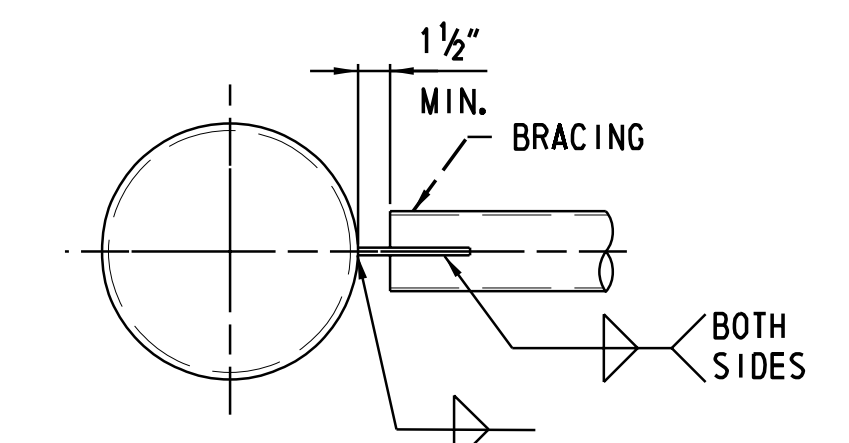
SECTION A
SCALE: 1/2"=1'-0"



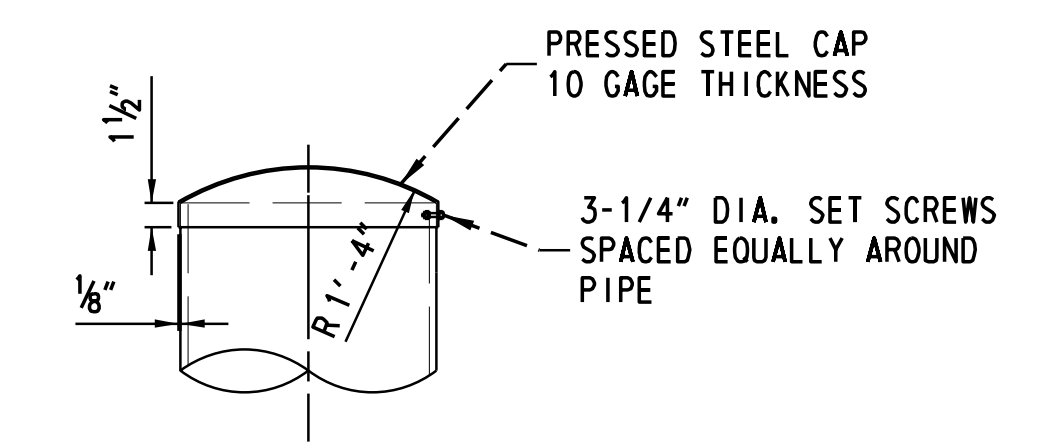
SECTION B
SCALE: 1"=1'-0"



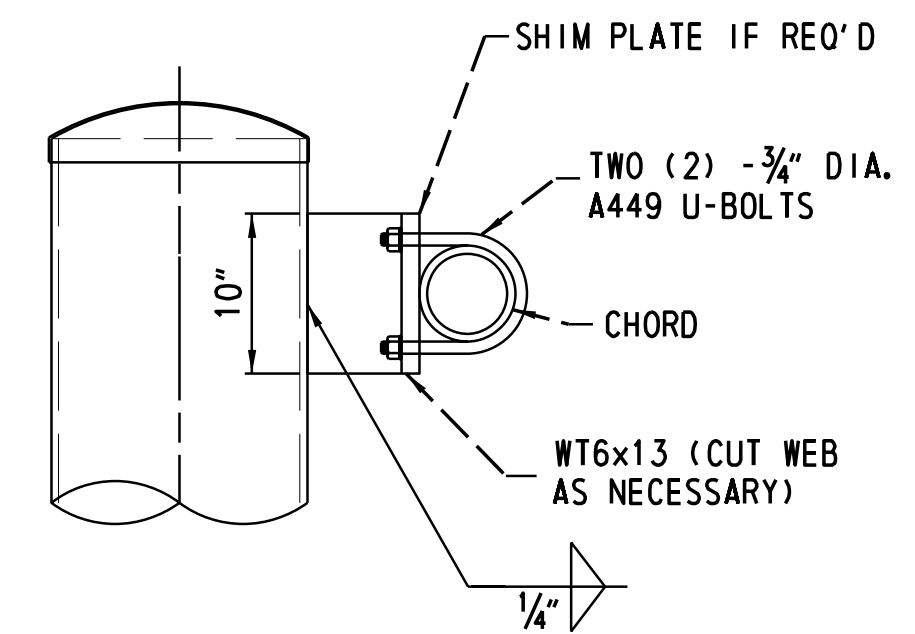
PIPE CAP DETAIL
SCALE: 1"=1'-0"



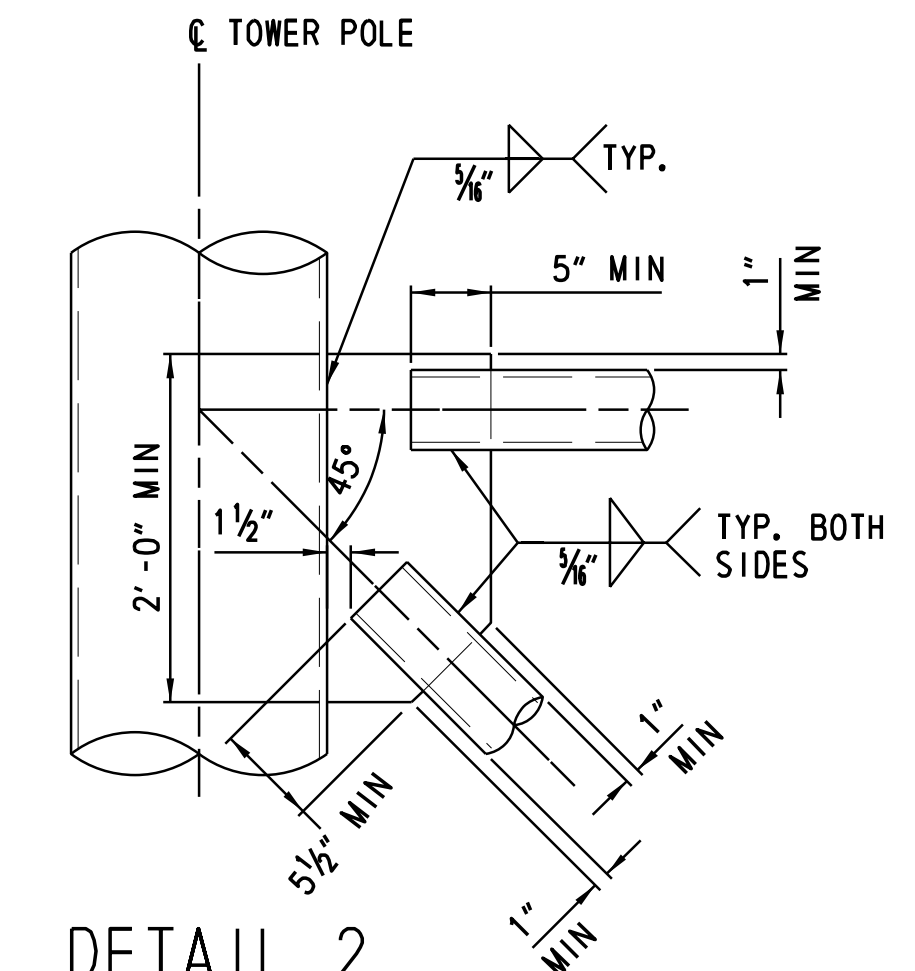
SECTION C
SCALE: 1"=1'-0"



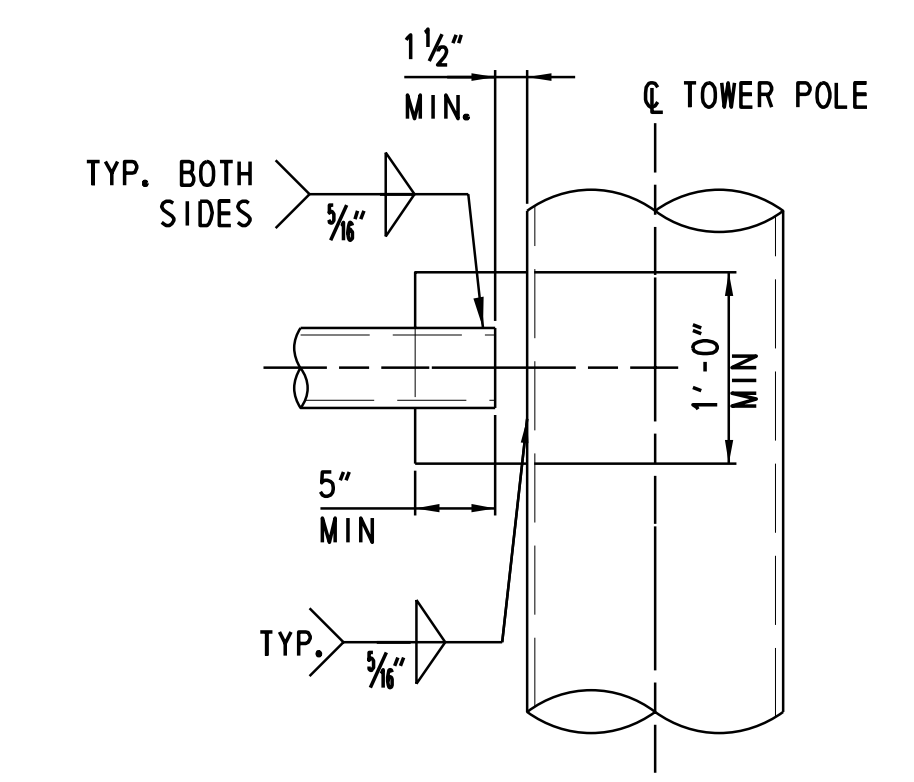
SECTION D
SCALE: 1"=1'-0"



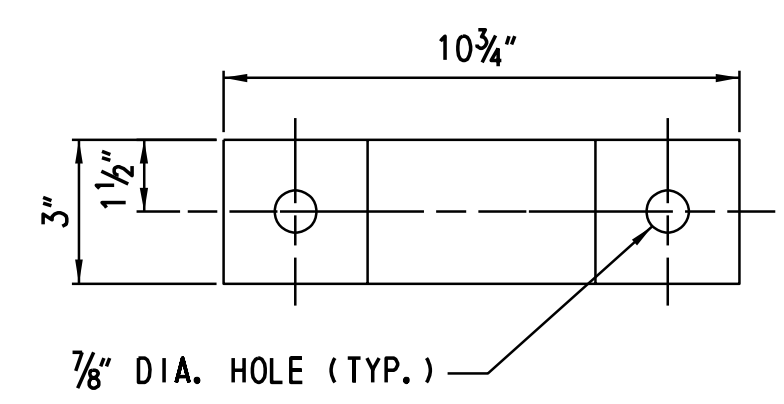
DETAIL 1
SCALE: 1"=1'-0"



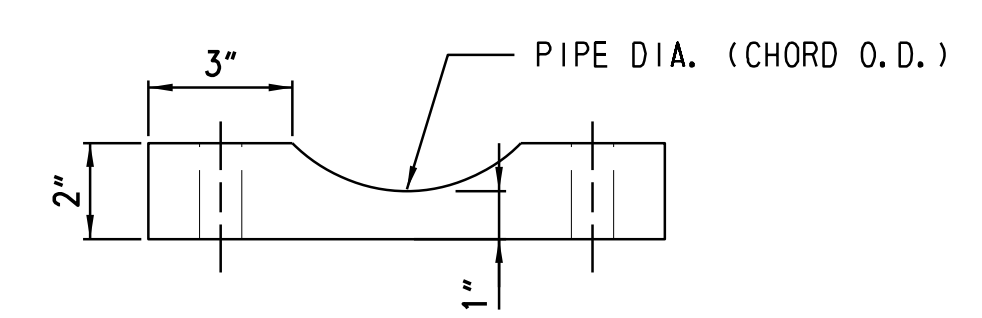
DETAIL 2
SCALE: 1"=1'-0"



DETAIL 3
SCALE: 1"=1'-0"



PLAN



ELEVATION

SADDLE BLOCK DETAIL
SCALE: 3"=1'-0"

NOTES:

1. FOR GENERAL NOTES, SEE SHEET ST-01.
2. FOR BASE PLATE, ANCHOR BOLT AND ANCHOR PLATE DETAILS, SEE SHEET ST-08.
3. FOR COPE HOLE DETAILS, SEE SHEET ST-11.
4. TO PREVENT INTERSECTING FILLET WELDS ON OPPOSITE SIDES OF COMMON PLANE, PROVIDE A WELD "HOLDBACK" AT THE EDGE OF THE GUSSET PLATE IN THE BRACING MEMBERS EQUAL TO THE MINIMUM WELD SIZE REQUIRED. ENSURE MINIMUM TOTAL WELD LENGTHS ARE ACHIEVED.

FOR INFORMATION ONLY / WORK BY OTHERS

ST-09

LAST REVISED: 3/12/2008
HN:50343_TOLL-PLAZA\GENERAL\XREFS\SB_A1_AECOM.DGN

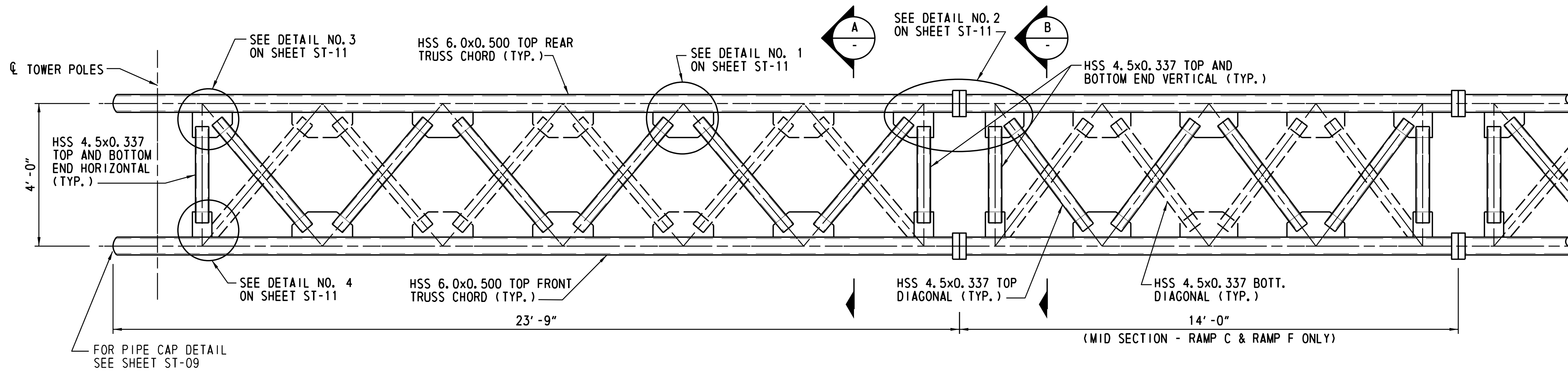
ADDENDUMS / REVISIONS

US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: AB
	CHECKED BY: CAM

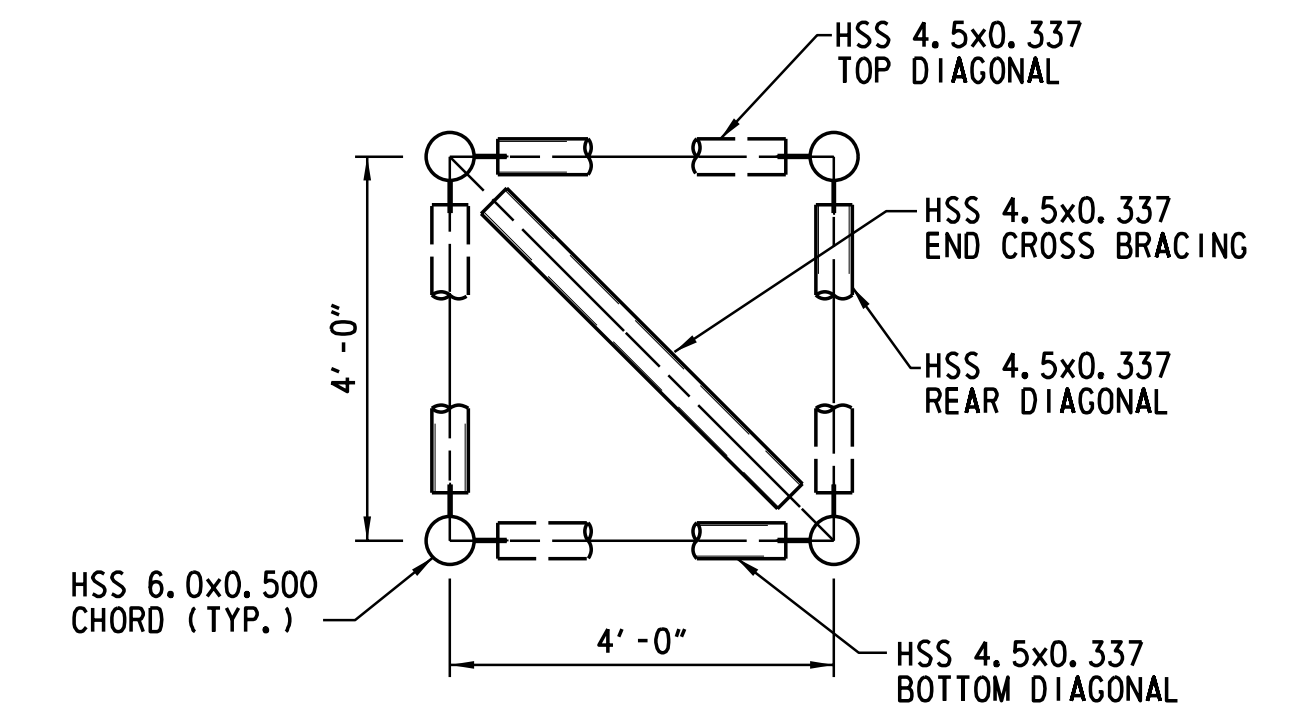
STRUCTURAL GANTRY TOWER ELEVATION & SECTIONS
--

SHEET NO. 1198
TOTAL SHTS. 1256



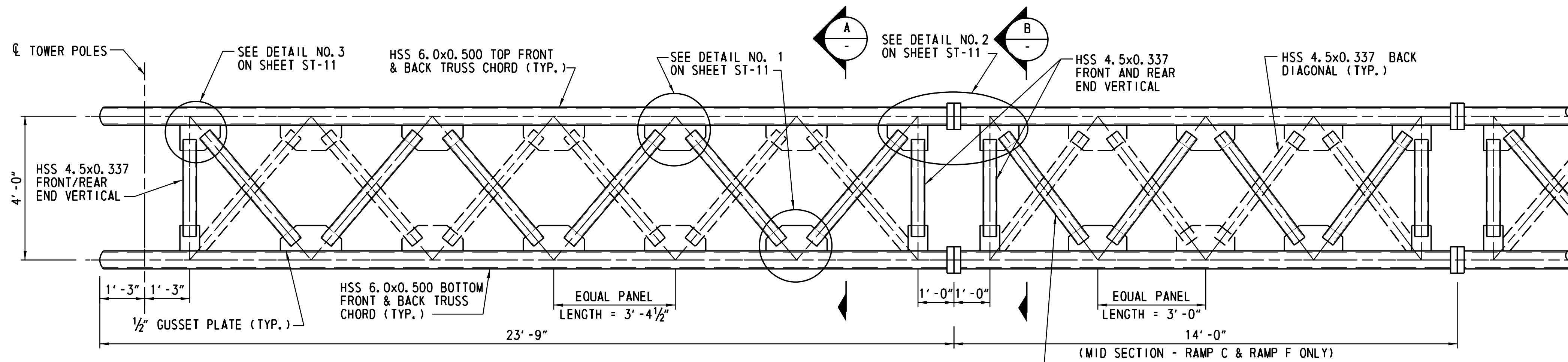
TOP VIEW OF TRUSS

SCALE: 1/2" = 1' - 0"



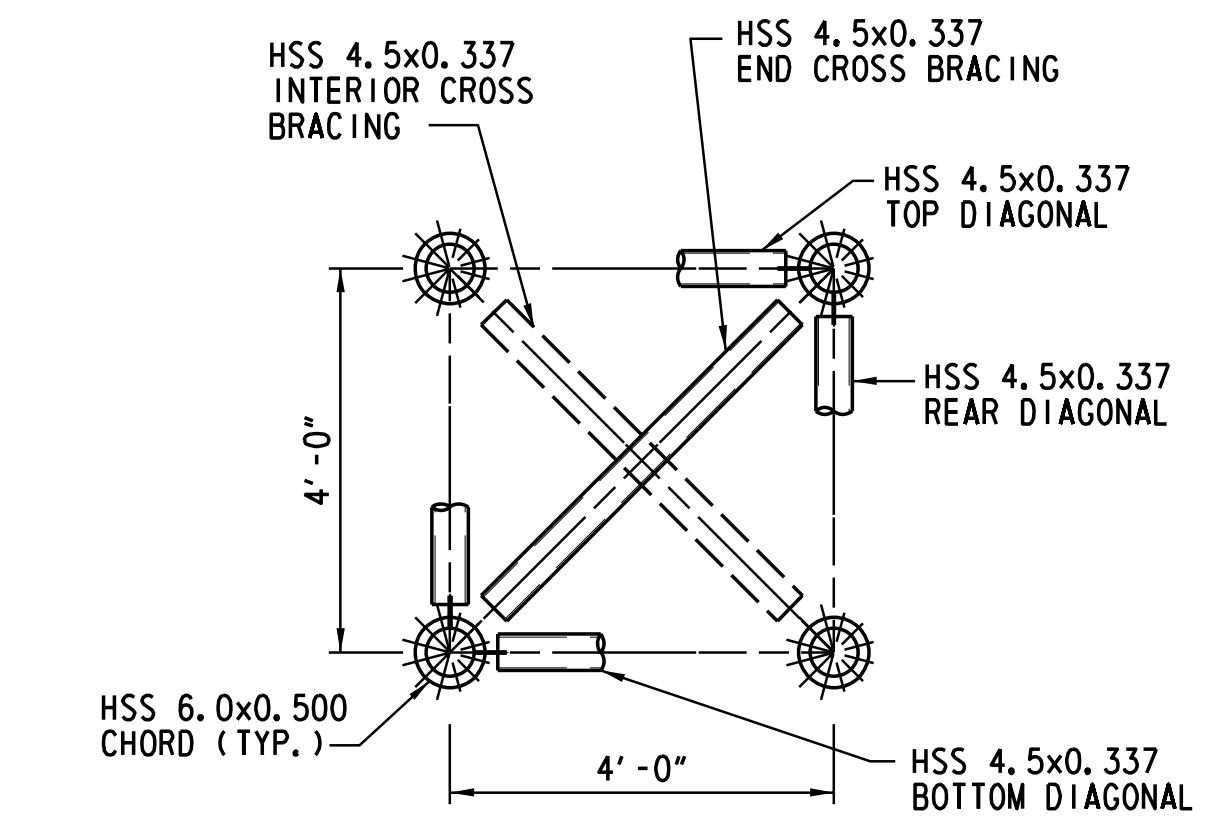
SECTION A

SCALE: 1/2" = 1' - 0"



FRONT VIEW OF TRUSS

SCALE: 1/2" = 1' - 0"



SECTION B

SCALE: 1/2" = 1' - 0"

NOTES:

1. FOR GENERAL NOTES, SEE SHEET ST-01.
2. TEMPORARY END FRAME TO BE USED TO PROVIDE ADDITIONAL SUPPORT TO ENDS OF TRUSS CHORDS DURING FABRICATION AND GALVANIZING PROCESSES. REMOVE AND REPAIR GALVANIZING AT POINTS OF CONTACT PRIOR TO TRUSS ASSEMBLY AND ERECTION. TEMPORARY FRAME IS NOT PART OF THE STRUCTURE AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
3. TRUSSES SHALL BE FABRICATED WITH CAMBER AT THE CENTER OF THE SPAN EQUAL TO THE VALUE GIVEN BY THE CAMBER DIAGRAM ON THE CONTRACT DRAWING. ALL TRUSSES SHALL BE ASSEMBLED IN THE SHOP IN A NO LOAD CONDITION TO ENSURE FIT AT SPLICES AND TO CHECK CAMBER.

FOR INFORMATION ONLY / WORK BY OTHERS

ST-10



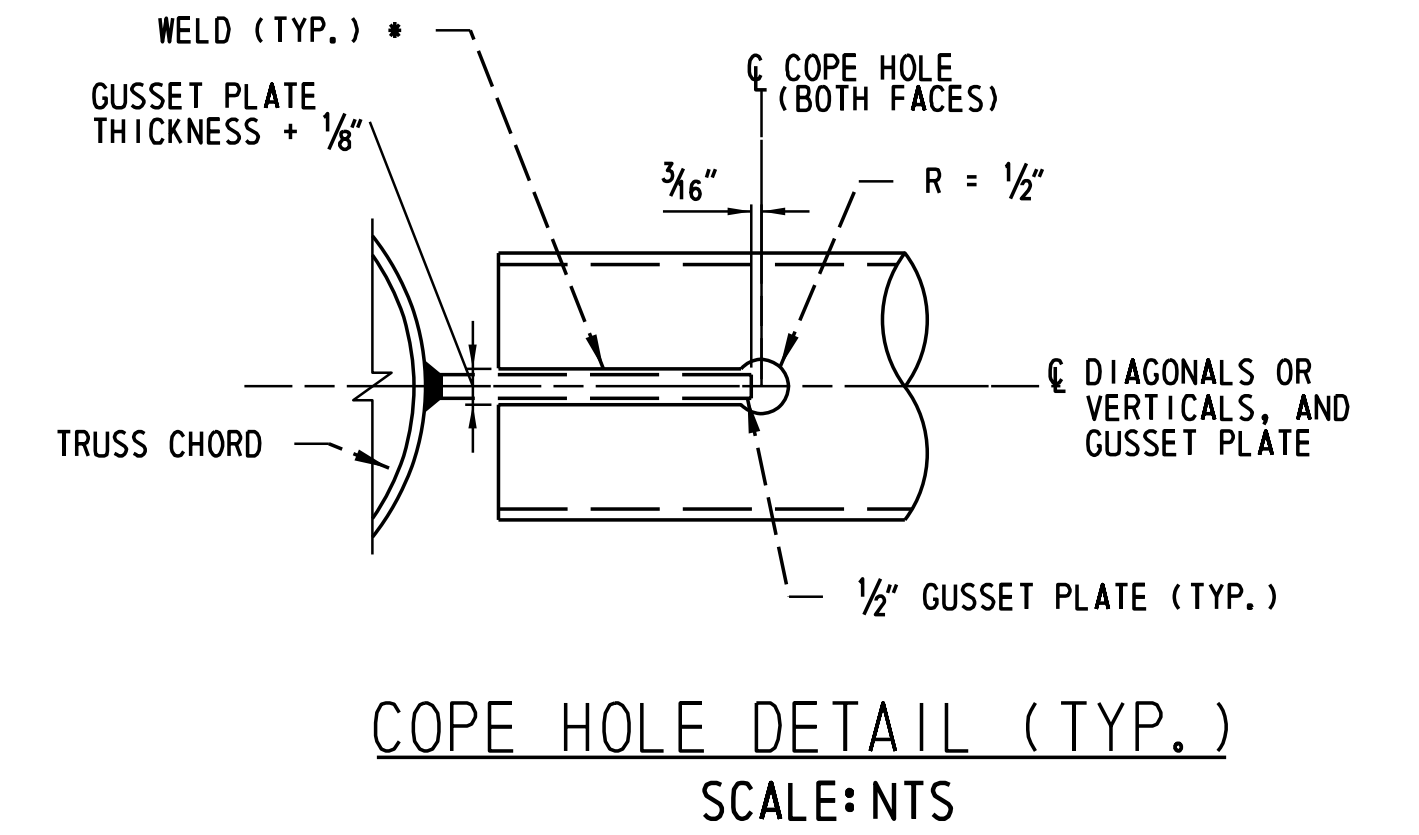
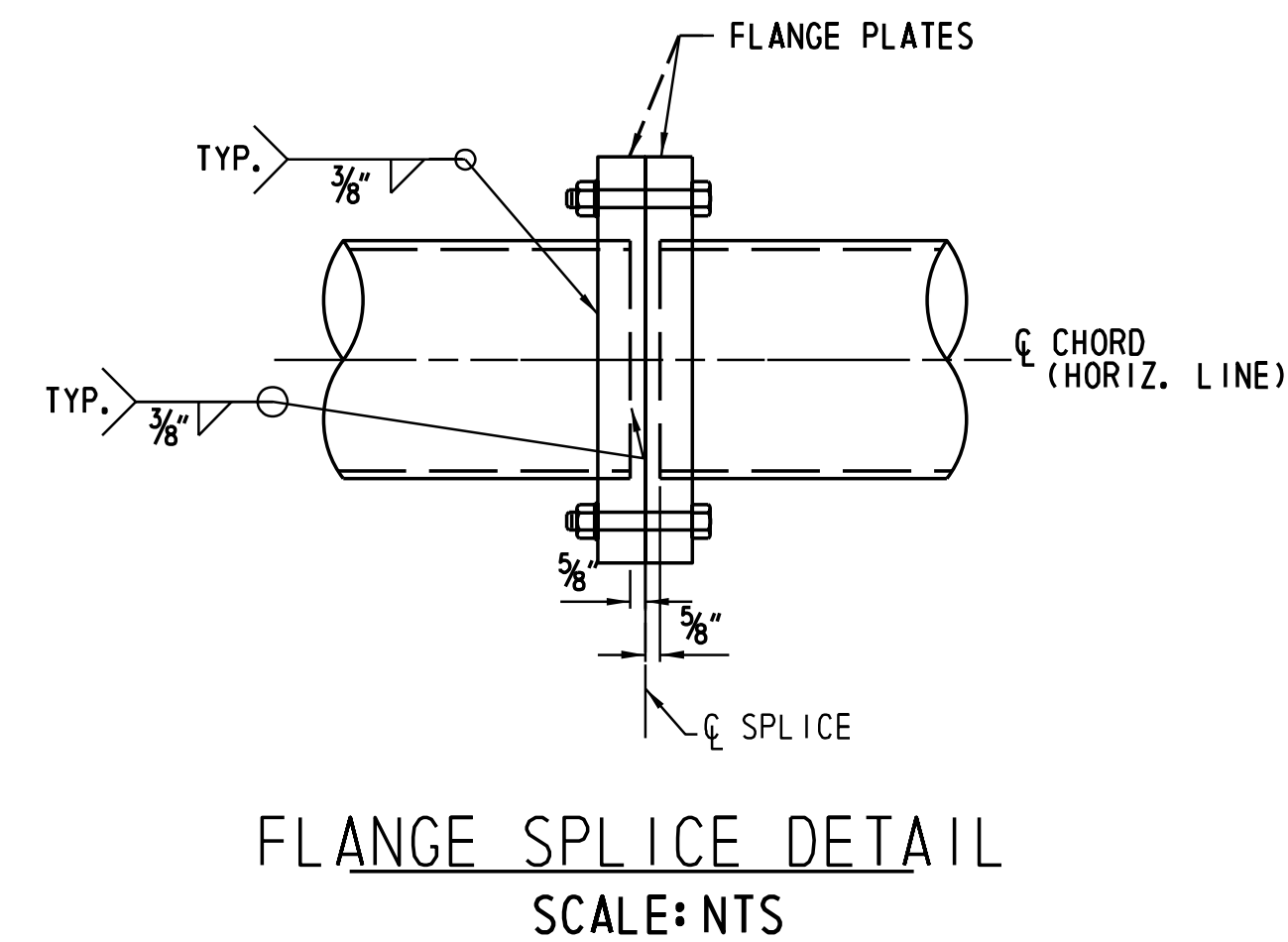
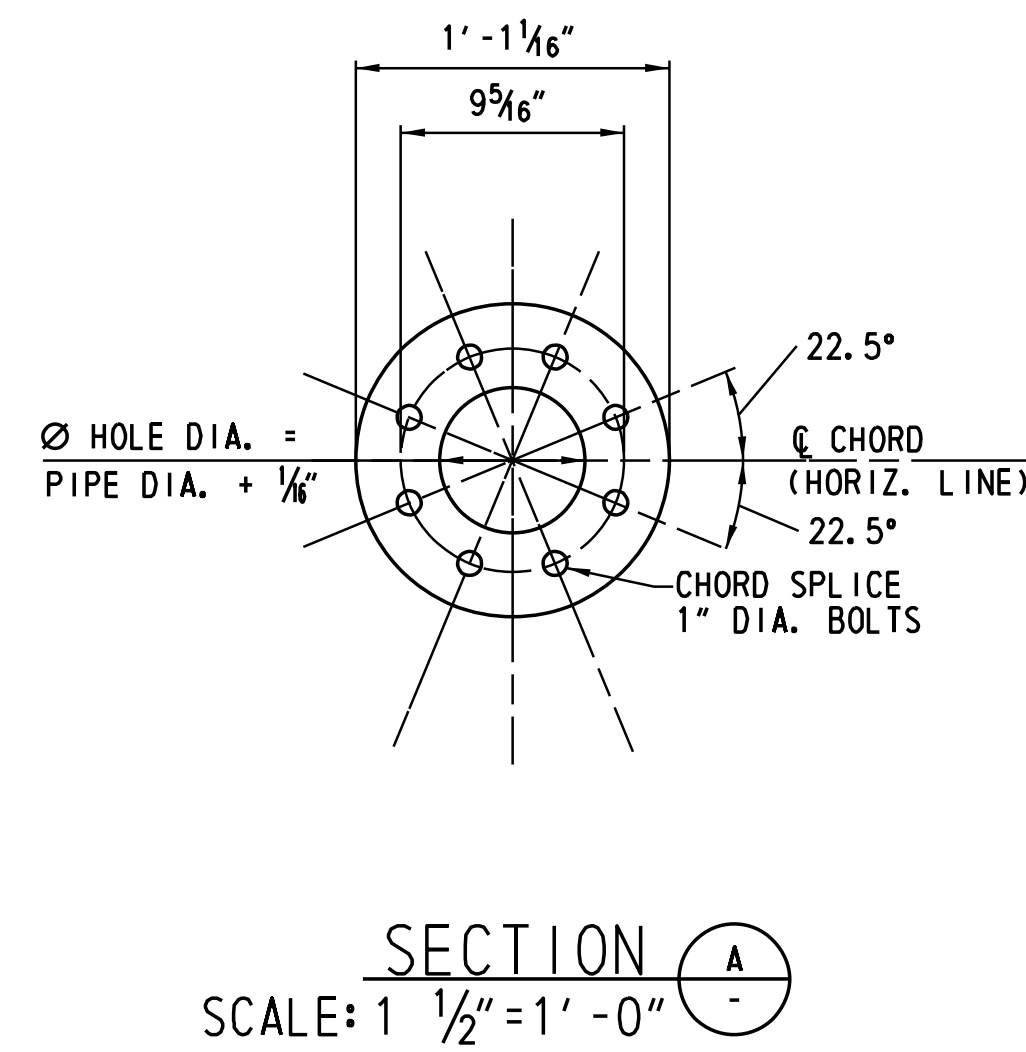
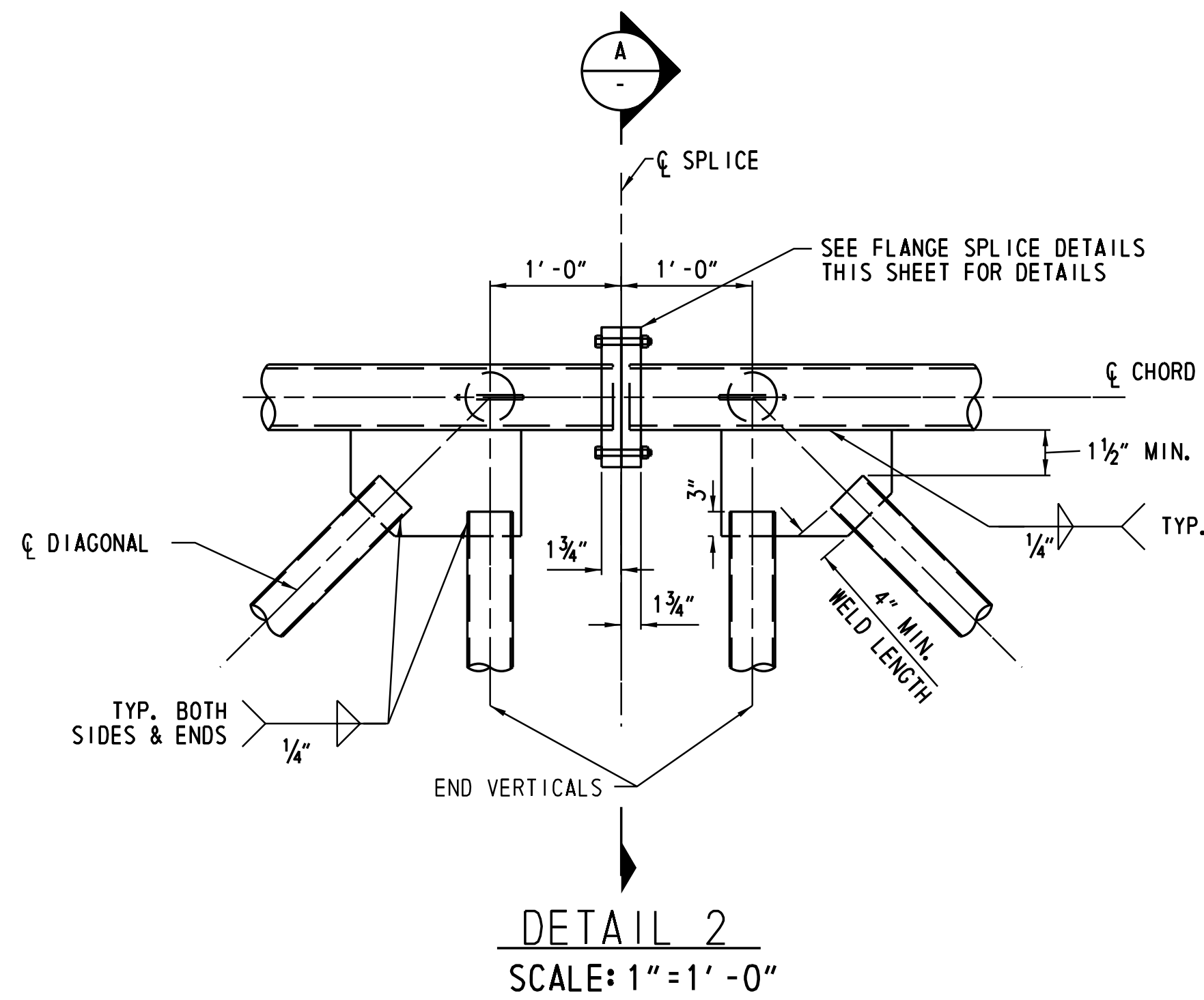
ADDENDUMS / REVISIONS

US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

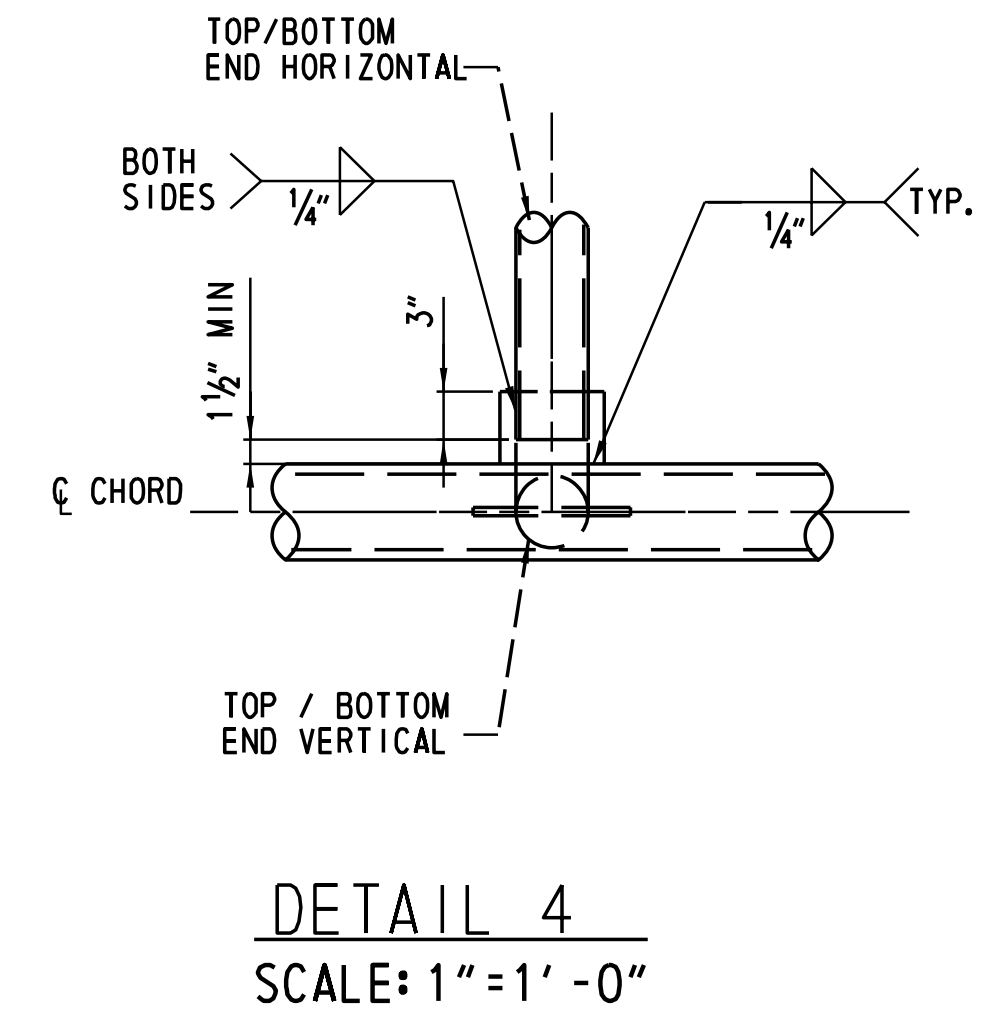
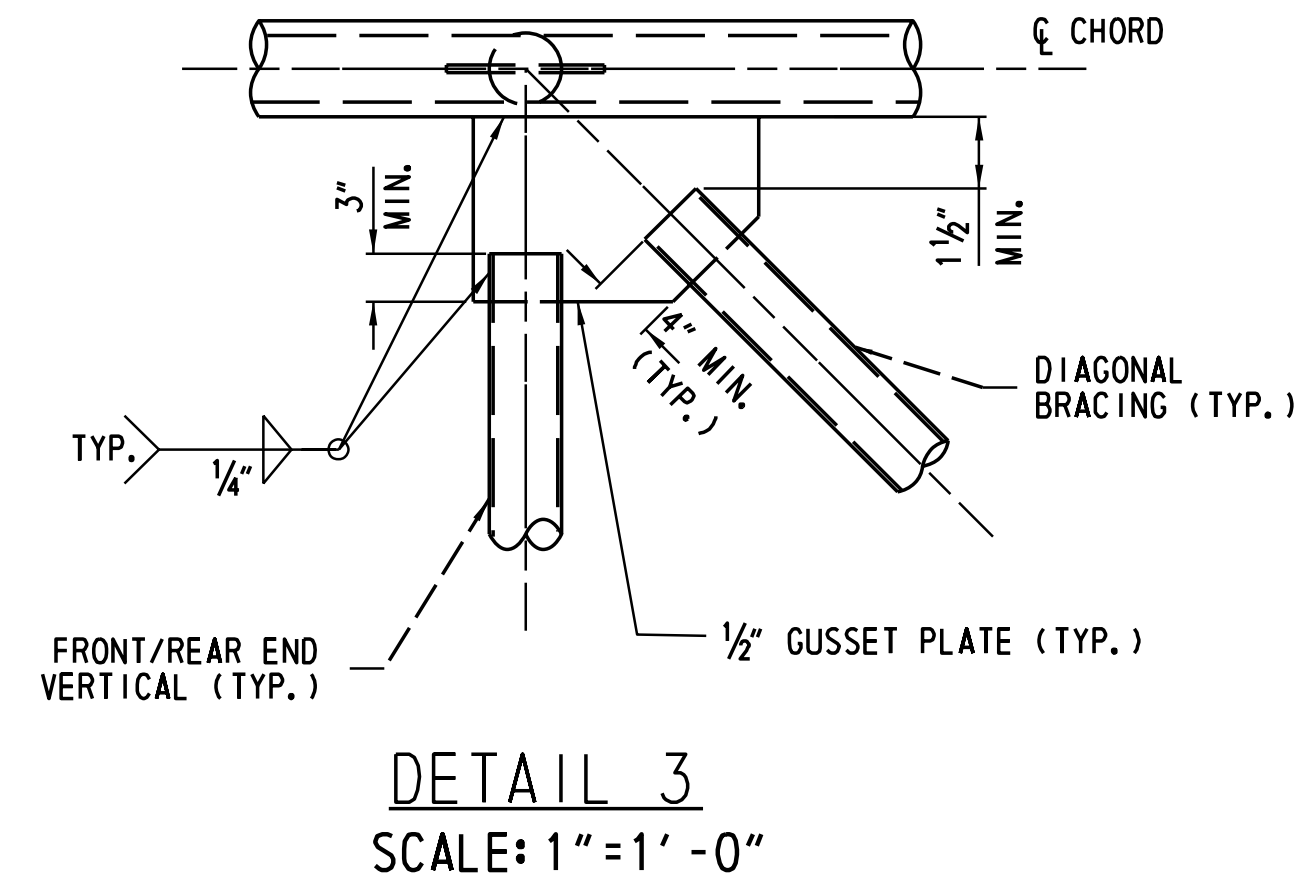
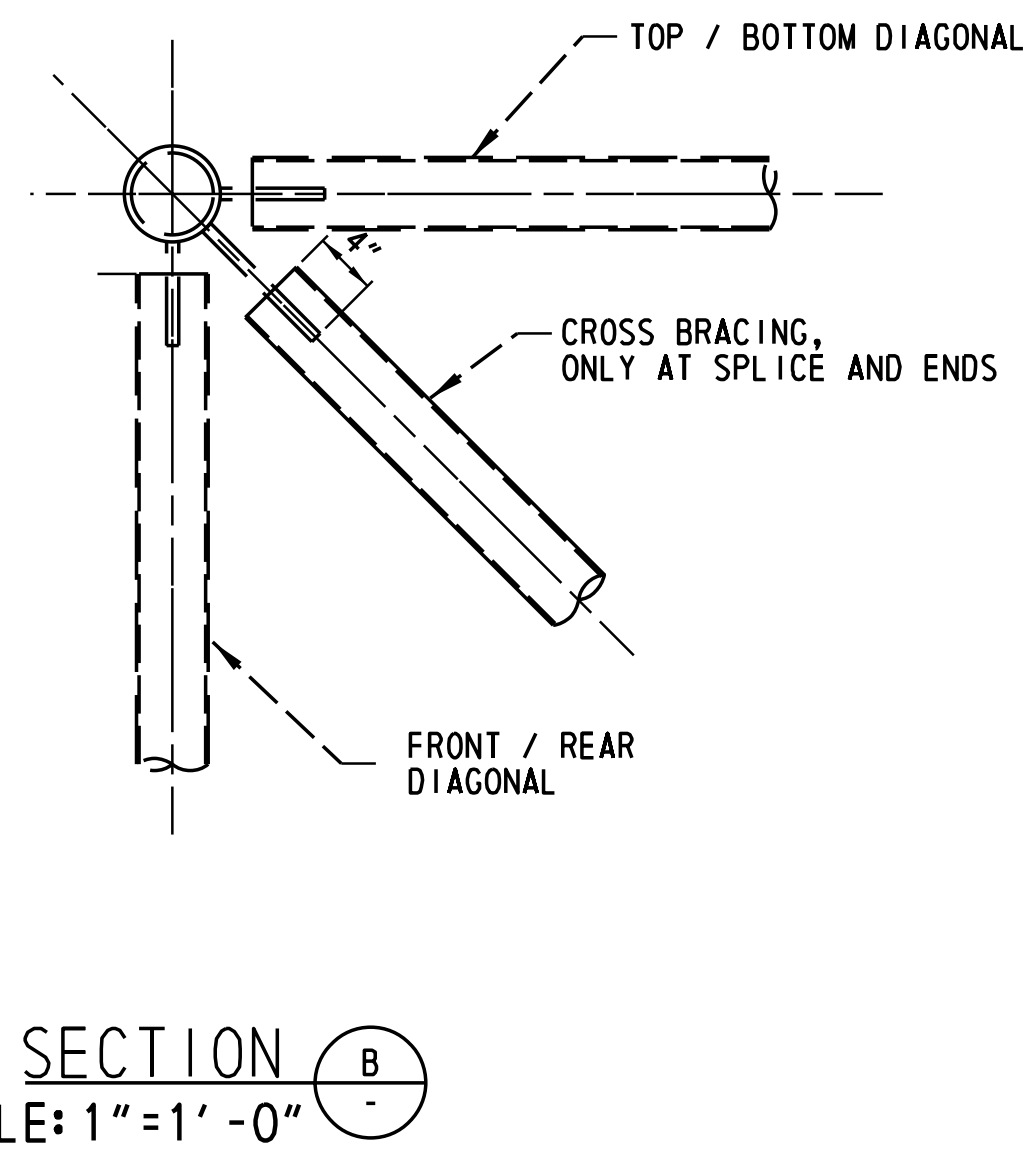
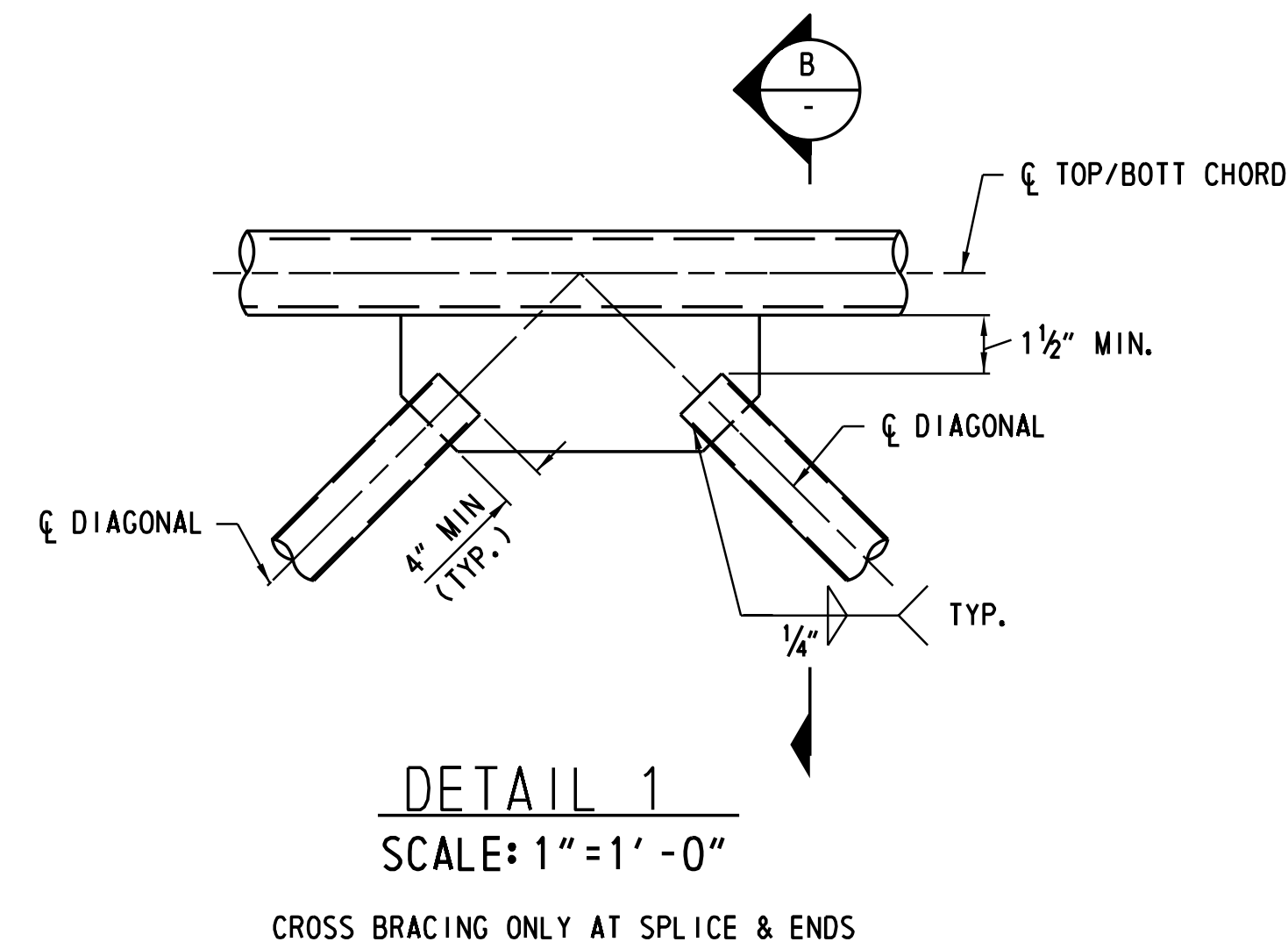
CONTRACT	BRIDGE NO.
T200911303	DESIGNED BY: AB
COUNTY	CHECKED BY: CAM
NEW CASTLE	

STRUCTURAL
GANTRY TRUSS
DETAILS I

SHEET NO.
1199
TOTAL SHTS.
1256



* - PROVIDE A WELD "HOLDBACK" AT THE EDGE OF THE GUSSET PLATE IN THE BRACING MEMBER EQUAL TO THE MINIMUM WELD SIZE REQUIRED.

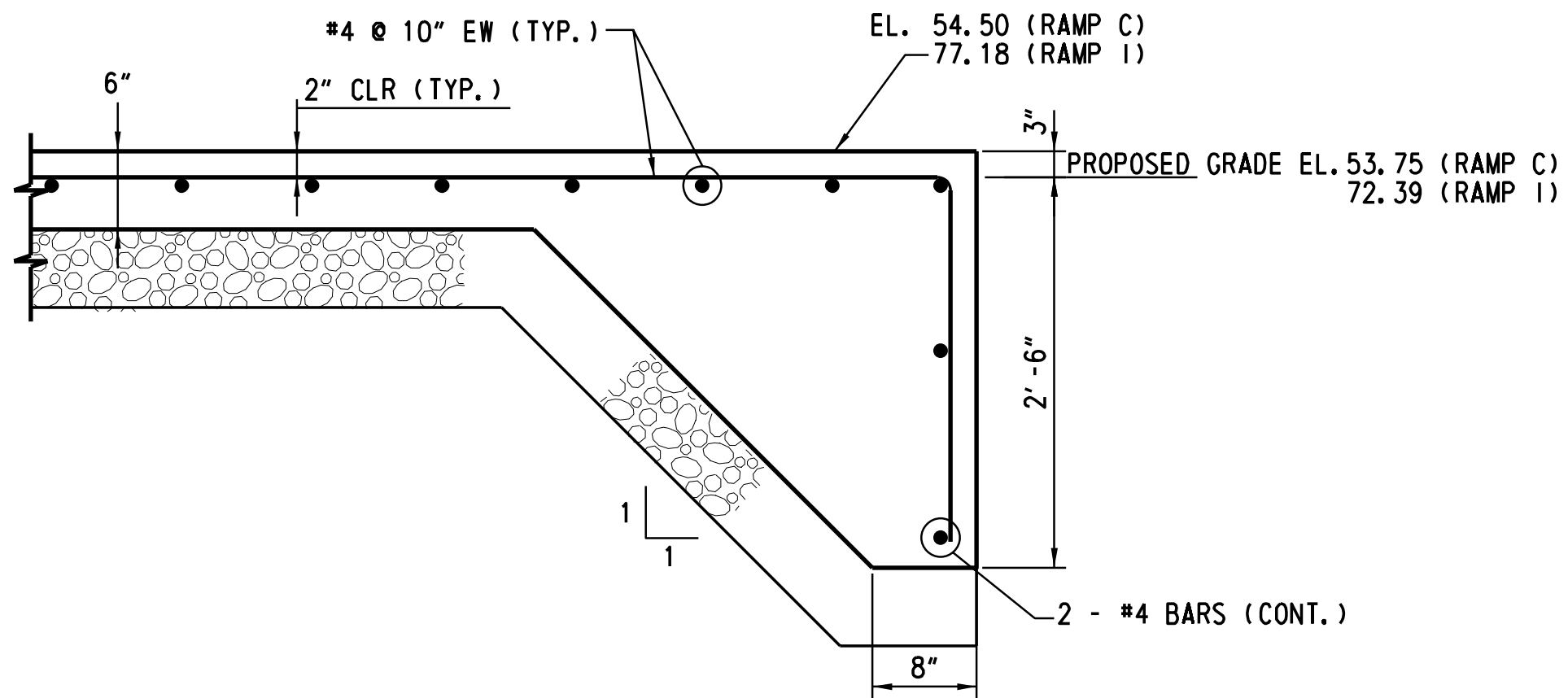


NOTES:

- FOR GENERAL NOTES, SEE SHEET ST-01.
- CHORD SPLICE BOLTS SHALL BE ASTM A325 HIGH STRENGTH STEEL BOLTS, HOLES IN SPLICE PLATE SHALL BE 1/16" LARGER THAN BOLT DIAMETER.
- ASTM A325 SPLICE BOLTS SHALL BE HEAVY HEXAGON TYPE AND SHALL BE FURNISHED WITH HEAVY HEXAGON NUTS AND WASHER.
- THE THREADED PORTION OF THE SPLICE BOLTS SHALL BE EXCLUDED FROM THE SHEAR PLANE OF THE SPLICE.
- TO PREVENT INTERSECTING FILLET WELDS ON OPPOSITE SIDES OF COMMON PLANE, PROVIDE A WELD "HOLDBACK" AT THE EDGE OF THE GUSSET PLATE IN THE BRACING MEMBERS EQUAL TO THE MINIMUM WELD SIZE REQUIRED. ENSURE MINIMUM TOTAL WELD LENGTHS ARE ACHIEVED.

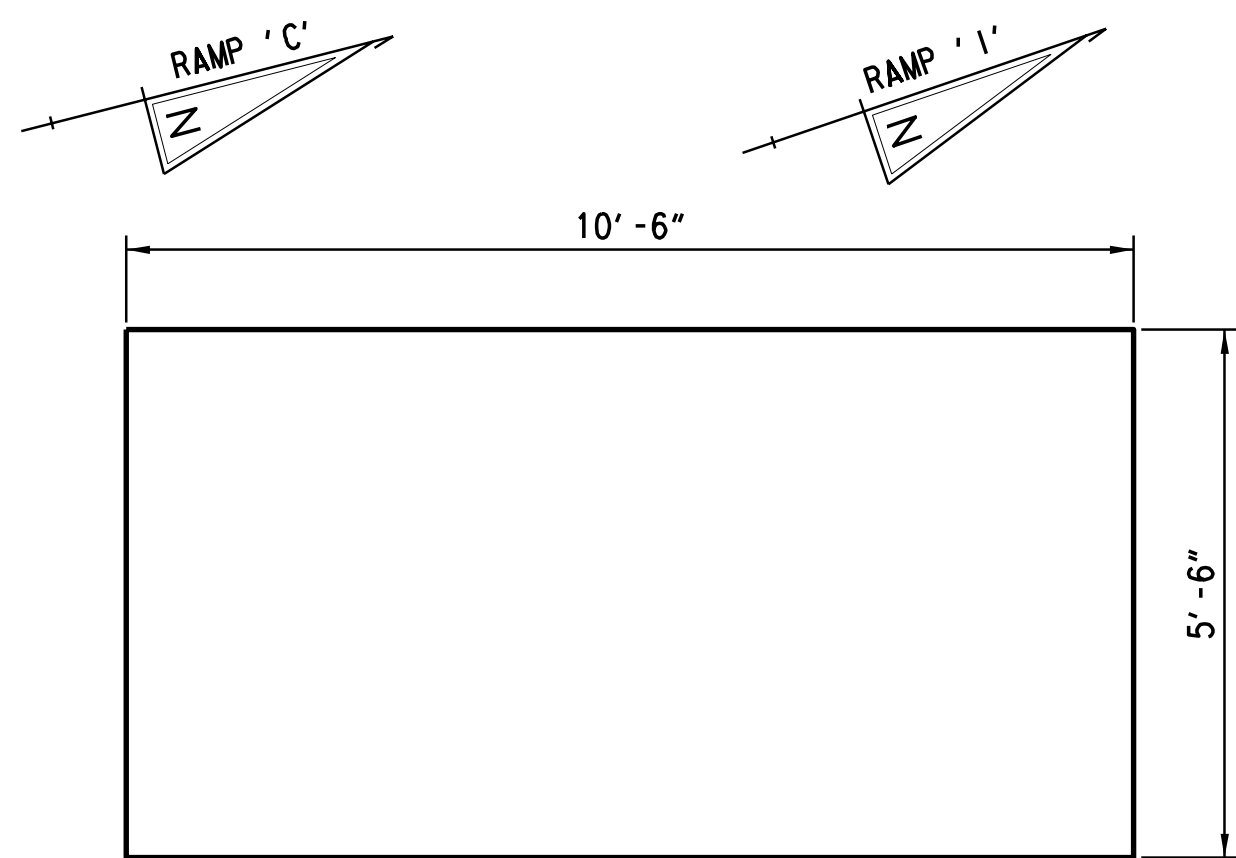
FOR INFORMATION ONLY / WORK BY OTHERS

ST-11

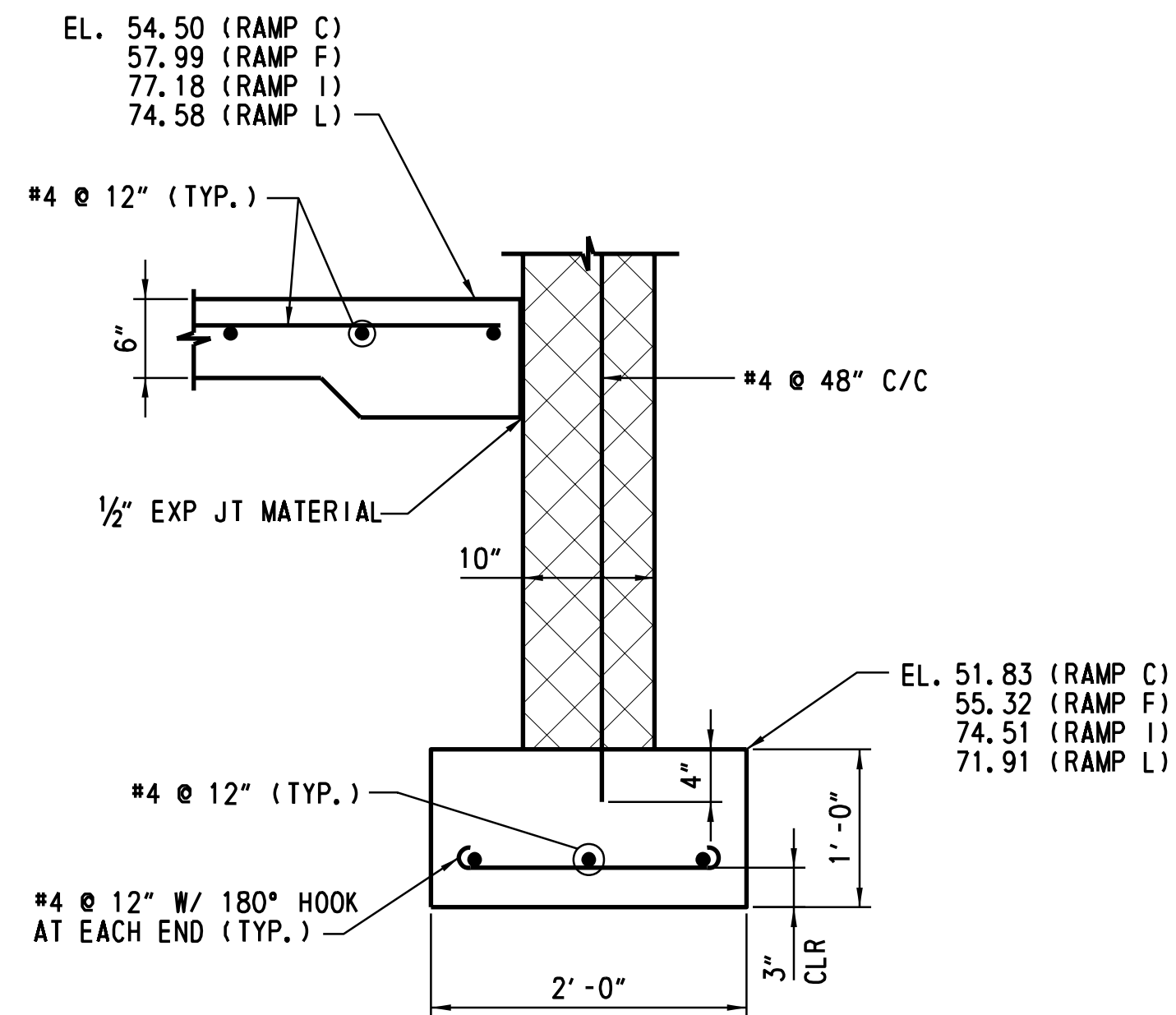


- NOTES:
1. THE DIMENSIONS OF THE GENERATOR PAD ARE 10'-6" x 5'-6".
 2. THE DESIGN OF THE GENERATOR PAD IS FOR A 6500 LB. UNIT THAT MEASURES 8'-6" x 3'-6". ACTUAL SIZE AND WEIGHT OF GENERATOR SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.
 3. THE GENERATOR PAD SHALL EXTEND AN ADDITIONAL 1 FT. ON EACH SIDE OF THE APPROVED UNIT.
 4. PROVIDE BONDOUT TO ACCOMMODATE CONDUITS FROM BELOW. COORDINATE SIZE AND LOCATION WITH GENERATOR VENDOR SUBMITTALS.

GENERATOR PAD DETAIL
SCALE: 1" = 1'-0"

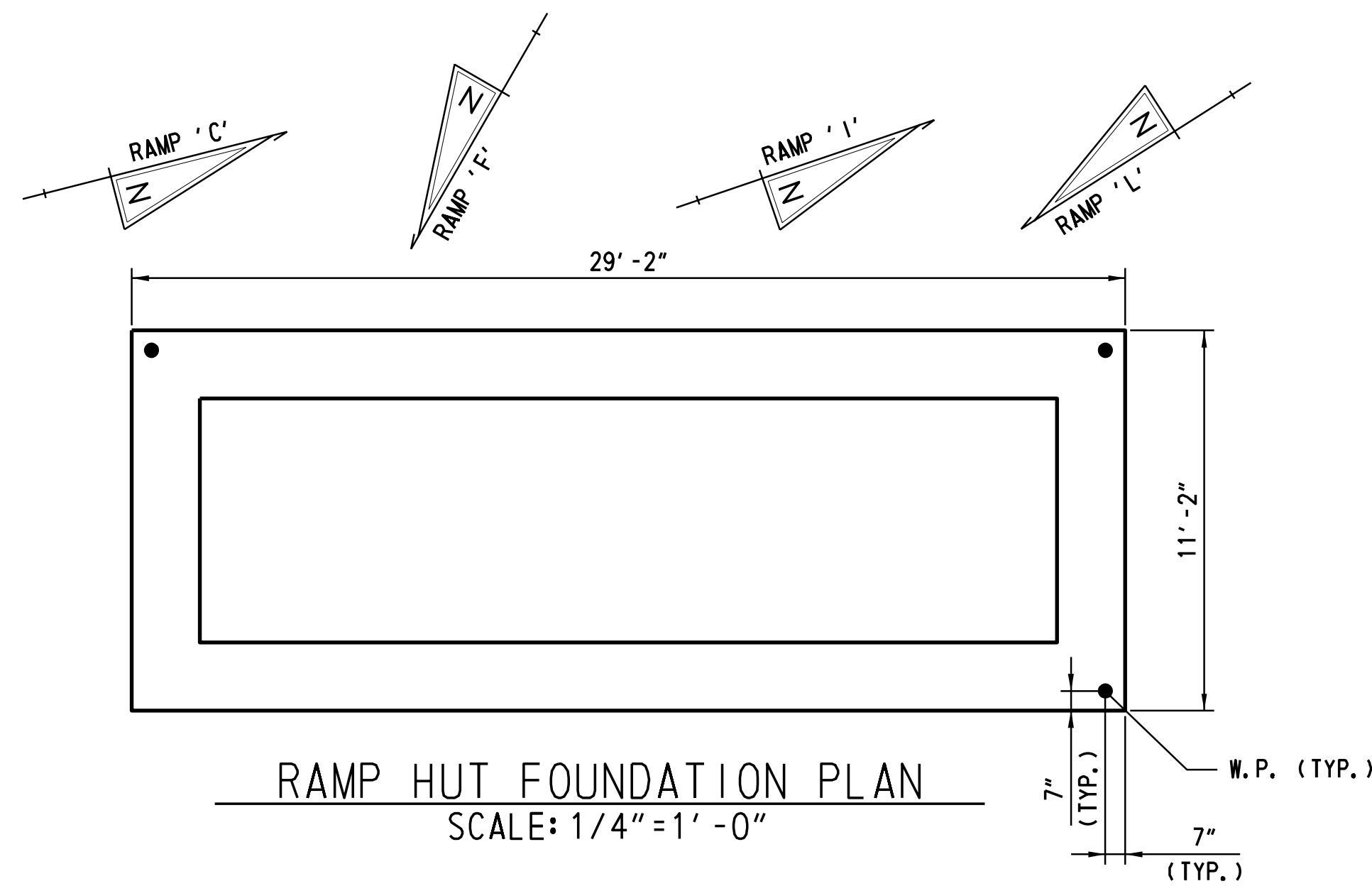


GENERATOR PAD PLAN
SCALE: 1/2" = 1'-0"



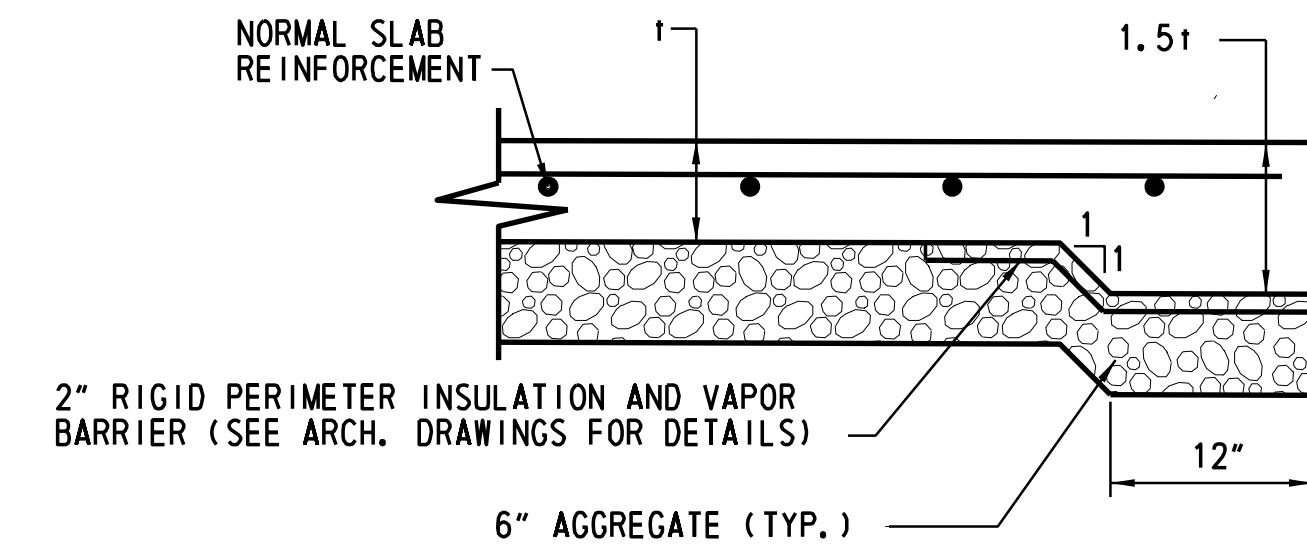
NOTE: FOR EQUIPMENT HUT DETAILS, SEE ARCHITECTURAL DRAWINGS

RAMP HUT DETAIL
SCALE: 1" = 1'-0"

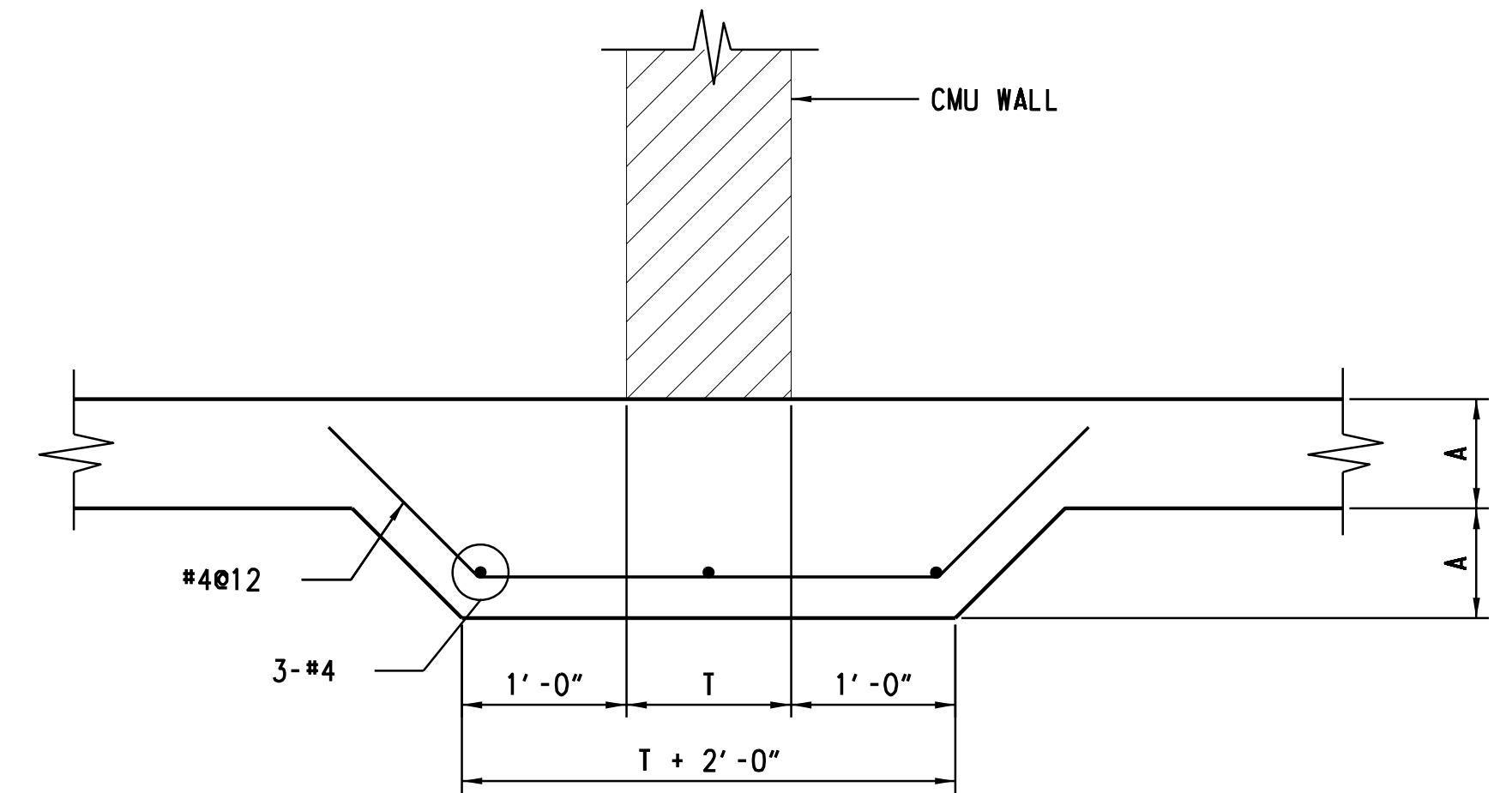


RAMP HUT FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

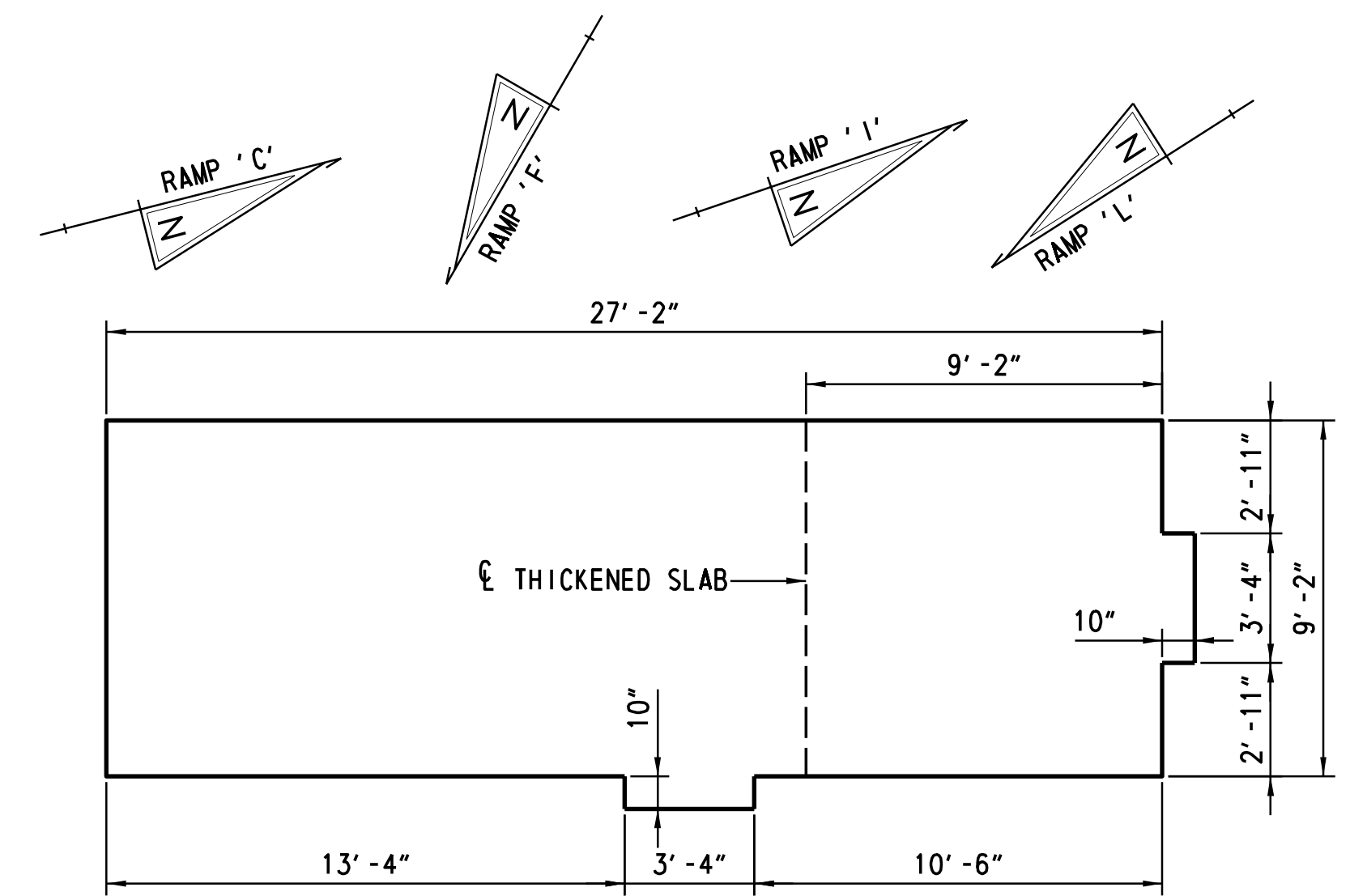
NOTE:
FOR LOCATION OF WORK POINTS AT EACH EQUIPMENT HUT,
REFER TO SHEETS ST-02, ST-03 ST-04 AND ST-05



THICKENED SLAB EDGE
SCALE: NTS



THICKENED SLAB AT MASONRY WALLS
SCALE: NTS



RAMP HUT SLAB PLAN
SCALE: 1/4" = 1'-0"

FOR INFORMATION ONLY / WORK BY OTHERS

ST-12

ABBREVIATIONS

(NOT ALL ABBREVIATIONS MAY APPEAR ON THESE CONTRACT DOCUMENTS)

Table with 2 columns: Abbreviation and Description. Includes items like ABV ABOVE, AC AIR COMPRESSOR, ETC. up to ESP EXTERNAL STATIC PRESSURE.

PIPING ELEMENTS/VALVES

(NOT ALL ELEMENTS MAY APPEAR ON THESE CONTRACT DOCUMENTS)

Table with 2 columns: Symbol and Description. Includes symbols for valve, globe valve, butterfly valve, ball valve, check valve, etc.

DUCTWORK

(NOT ALL COMPONENTS MAY APPEAR ON THESE CONTRACT DOCUMENTS)

Table with 2 columns: Symbol and Description. Includes symbols for flexible ductwork, radius elbow, vaned elbow, branch duct take-off, diffuser, etc.

REFERENCE SYMBOLS

(NOT ALL SYMBOLS MAY APPEAR ON THESE CONTRACT DOCUMENTS)

Table with 2 columns: Symbol and Description. Includes symbols for quantity, equipment identity abbreviation, equipment number, section number, etc.

LINE DESIGNATIONS

(NOT ALL LINETYPES MAY APPEAR ON THESE CONTRACT DOCUMENTS)

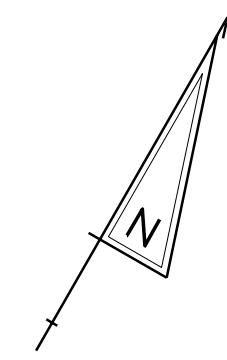
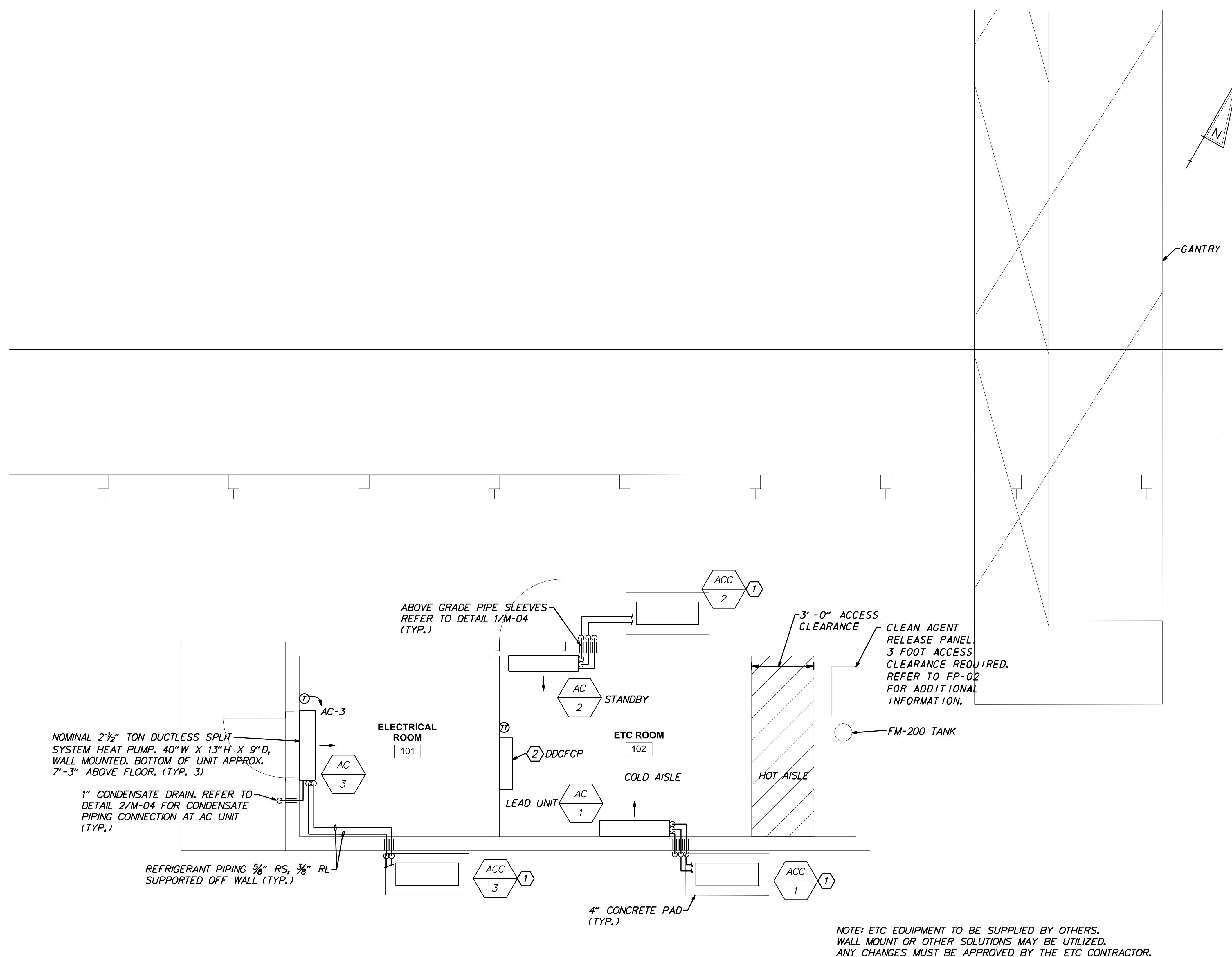
Table with 2 columns: Line Type and Description. Includes CD CONDENSATE DRAIN, D DRAIN, EA EXHAUST AIR, etc.

FOR INFORMATION ONLY / WORK BY OTHERS

M-01

GENERAL NOTES:
 1. SEE ARCHITECTURAL DWG. A-1 FOR GENERAL NOTES.

SHEET NOTES:
 ① REFER TO SCHEDULE ON DWG. M-04 FOR ADDITIONAL HEAT PUMP SYSTEM INFORMATION.
 ② SEE DWG. M-04 FOR ADDITIONAL INFORMATION.



NOMINAL 2½ TON DUCTLESS SPLIT SYSTEM HEAT PUMP. 40"W X 13"H X 9"D, WALL MOUNTED. BOTTOM OF UNIT APPROX. 7'-3" ABOVE FLOOR. (TYP. 3)
 1" CONDENSATE DRAIN. REFER TO DETAIL 2/M-04 FOR CONDENSATE PIPING CONNECTION AT AC UNIT (TYP.)

ABOVE GRADE PIPE SLEEVES REFER TO DETAIL 1/M-04 (TYP.)

3'-0" ACCESS CLEARANCE
 CLEAN AGENT RELEASE PANEL. 3 FOOT ACCESS CLEARANCE REQUIRED. REFER TO FP-02 FOR ADDITIONAL INFORMATION.

REFRIGERANT PIPING ½" RS, ⅜" RL SUPPORTED OFF WALL (TYP.)

4" CONCRETE PAD (TYP.)

NOTE: ETC EQUIPMENT TO BE SUPPLIED BY OTHERS. WALL MOUNT OR OTHER SOLUTIONS MAY BE UTILIZED. ANY CHANGES MUST BE APPROVED BY THE ETC CONTRACTOR.

MECHANICAL RAMP HUT PLAN RAMP 'F' & 'L'
 SCALE: 3/8" = 1'-0"

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M-02



ADDENDUMS / REVISIONS

US 301
 LEVELS ROAD TO
 SUMMIT BRIDGE ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: CLG
	CHECKED BY:

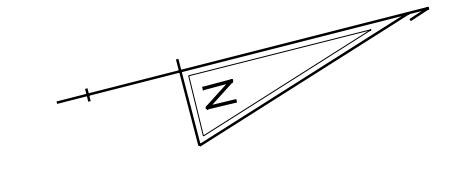
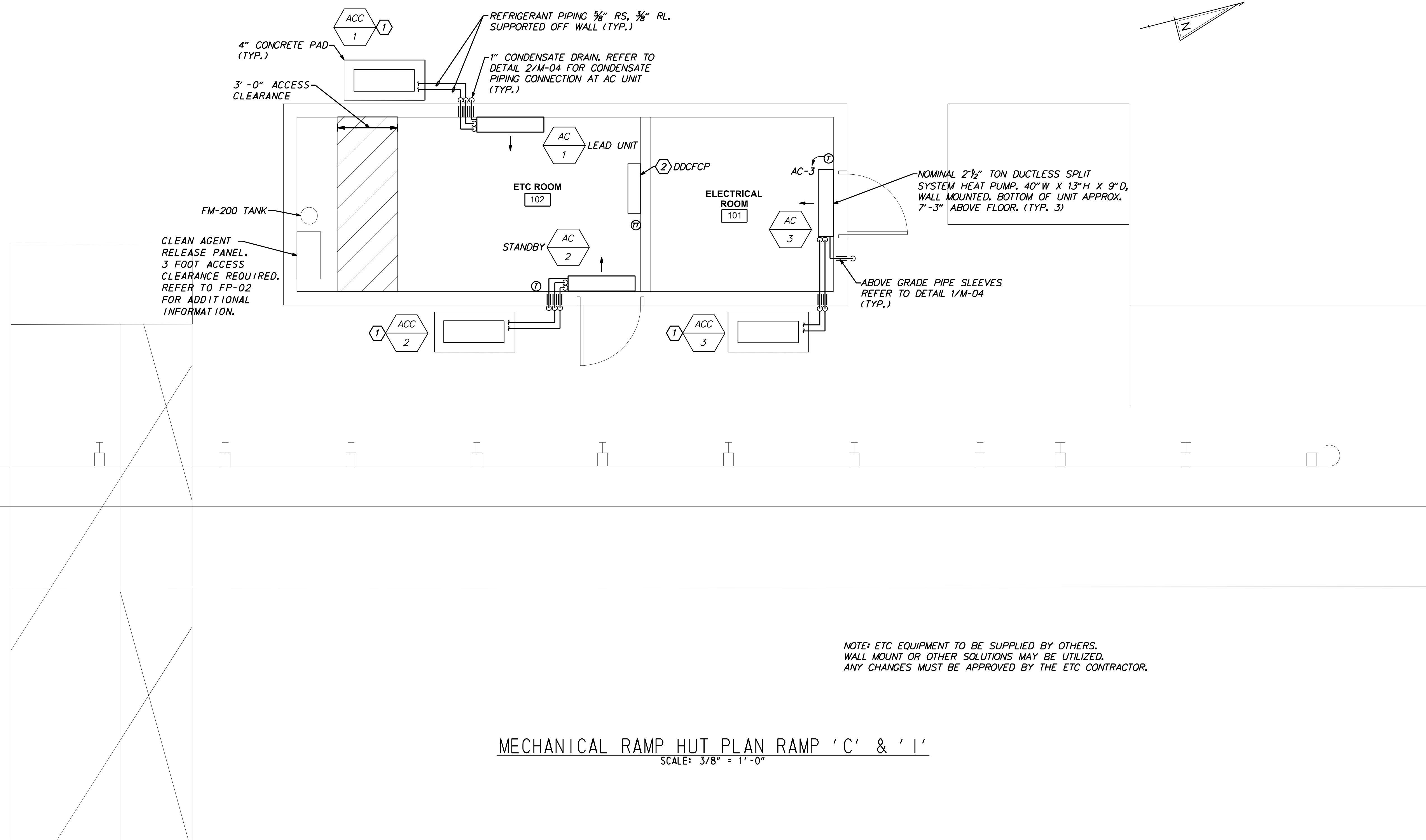
MECHANICAL
 RAMP HUT PLAN
 RAMP 'F' & 'L'

SHEET NO. 1203
TOTAL SHTS. 1256

LAST REVISED: 3/12/2008
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GENERAL NOTES:
 1. SEE ARCHITECTURAL DWG. A-1 FOR GENERAL NOTES.

SHEET NOTES:
 (1) REFER TO SCHEDULE ON DWG. M-04 FOR ADDITIONAL HEAT PUMP SYSTEM INFORMATION.
 (2) SEE DWG. M-04 FOR ADDITIONAL INFORMATION.



NOTE: ETC EQUIPMENT TO BE SUPPLIED BY OTHERS.
 WALL MOUNT OR OTHER SOLUTIONS MAY BE UTILIZED.
 ANY CHANGES MUST BE APPROVED BY THE ETC CONTRACTOR.

MECHANICAL RAMP HUT PLAN RAMP 'C' & 'I'
 SCALE: 3/8" = 1'-0"

FOR INFORMATION ONLY / WORK BY OTHERS M-03

LAST REVISED: 3/12/2008
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DELAWARE
 DEPARTMENT OF TRANSPORTATION

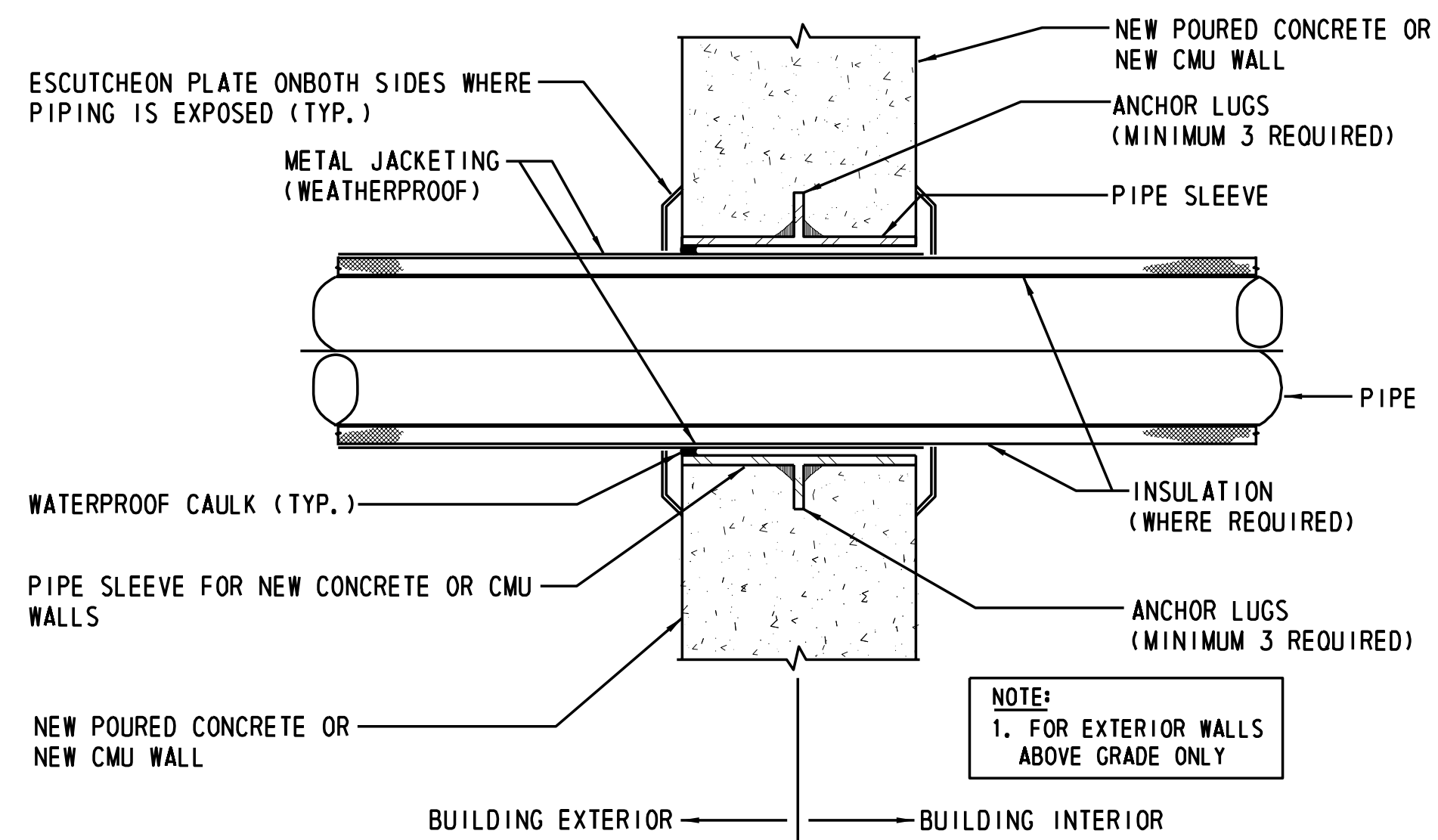
ADDENDUMS / REVISIONS	

US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

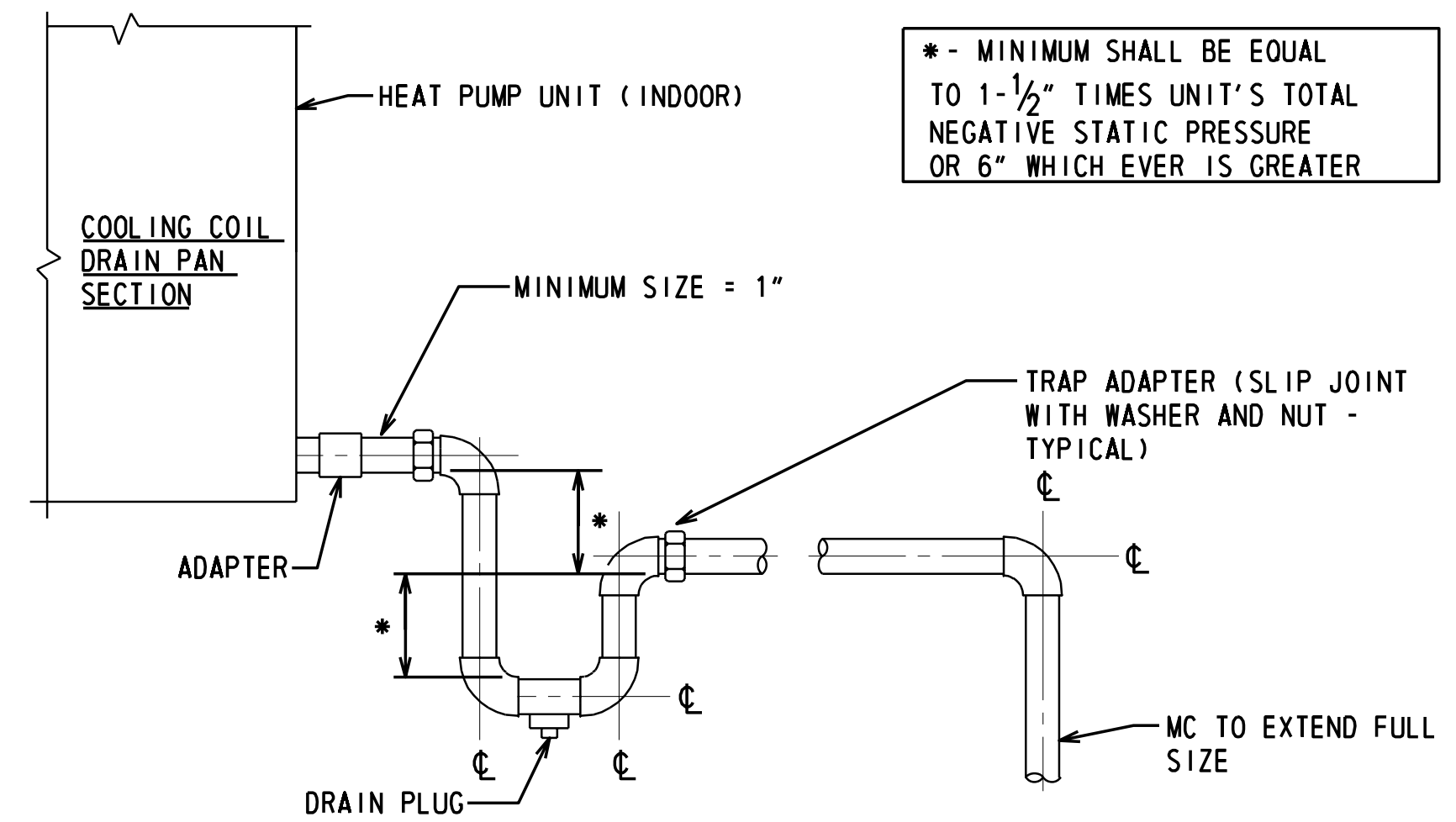
CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: CLG
NEW CASTLE	CHECKED BY:

MECHANICAL
RAMP HUT PLAN
RAMP 'C' & 'I'

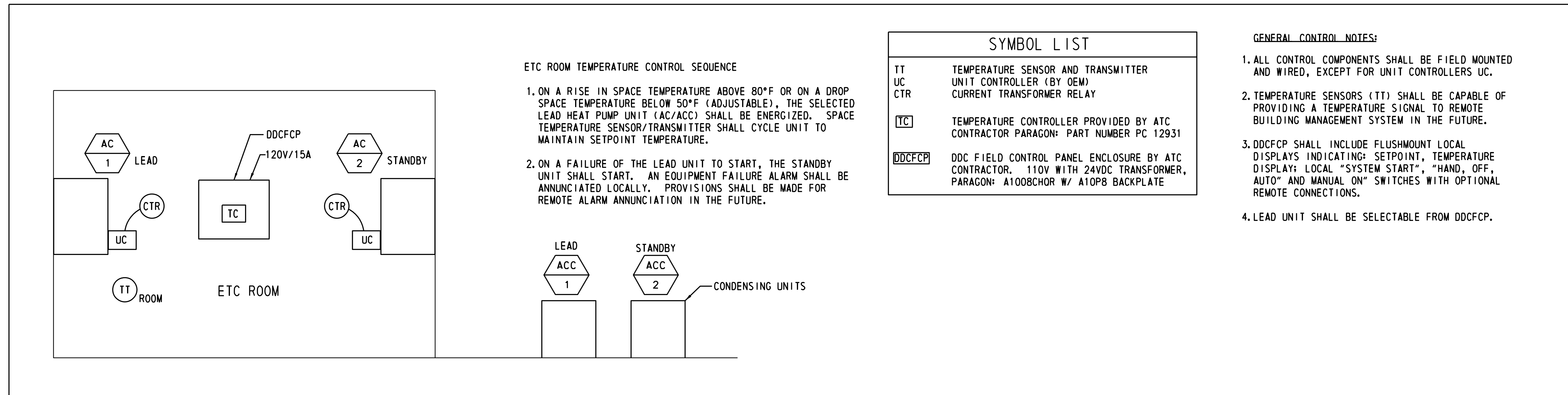
SHEET NO.
1204
TOTAL SHTS.
1256



1 PIPE SLEEVE - EXTERIOR WALL ABOVE GRADE
SCALE: NONE



2 DETAIL - CONDENSATE DRAIN
SCALE: NONE



3 ETC ROOM TEMPERATURE CONTROL DIAGRAM/SYMBOLS/NOTES
SCALE: NONE

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

UNIT TAG	INDOOR UNIT DATA				OUTDOOR UNIT DATA				ELECTRICAL DATA			MANUFACTURER/MODEL	REMARKS			
	NOMINAL COOLING (MBH)	NOMINAL HEATING (MBH)	MAX AIRFLOW (CFM)	OA (CFM)	DIMENSIONS H/W/D (IN.)	WEIGHT (LBS.)	FAN RPM (CLG/HTG)	DIMENSIONS H/W/D (IN.)	WEIGHT (LBS.)	MAX AMPS HEATING	MAX AMPS COOLING			VOLTS	PHASE	HERTZ
AC-1/ACC-1	30	32	695	-	12-5/8 / 39-1/4 / 9	31	850/850	32-3/4 / 35-3/8 / 13	137	18.5	17	208	1	60	FUJITSU / 30 RLX	SEE NOTES
AC-2/ACC-2	30	32	695	-	12-5/8 / 39-1/4 / 9	31	850/850	32-3/4 / 35-3/8 / 13	137	18.5	17	208	1	60	FUJITSU / 30 RLX	SEE NOTES
AC-3/ACC-3	30	32	695	-	12-5/8 / 39-1/4 / 9	31	850/850	32-3/4 / 35-3/8 / 13	137	18.5	17	208	1	60	FUJITSU / 30 RLX	SEE NOTES

NOTES:
1. FURNISH HEAT PUMP WITH SINGLE POINT POWER CONNECTION, DISCONNECT SWITCH, LOW AMBIENT CONTROL DOWN TO 0°F, THERMOSTAT, AND MOUNTING HARDWARE.

FOR INFORMATION ONLY / WORK BY OTHERS

M-04

VALVE SYMBOLS



PIPING ELEMENT SYMBOLS



DEVICE SYMBOLS



GENERAL NOTES

1. SEE ARCHITECTURAL DRAWING FOR GENERAL NOTES.
2. LEGENDS, SYMBOLS, NOTES AND ABBREVIATIONS SHOWN ON THIS DRAWING PERTAIN TO FIRE PROTECTION DRAWINGS ONLY.
3. COORDINATE WITH OTHER CONTRACTORS FOR CUTTING AND PATCHING OF ALL OPENINGS, EQUIPMENT PADS, PIPE SLEEVES, ETC.
4. PROVIDE OPENINGS THROUGH CONSTRUCTION AND SLEEVES AS REQUIRED.
5. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED.
6. ALARM MONITORING PANEL AND FA SYSTEM WIRING SHALL BE PROVIDED BY OWNER.
7. ENTIRE INSTALLATION SHALL MEET THE REQUIREMENTS OF THE FOLLOWING:
 - A. NFPA 2001 - ALL APPLICABLE CHAPTERS
 - B. OWNER'S INSURANCE COMPANY
 - C. LOCAL AND STATE REGULATIONS
8. MAKE ALL NECESSARY SUBMISSIONS AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS, INCLUDING ENGINEER'S APPROVAL PRIOR TO STARTING FABRICATION AND CONSTRUCTION.
9. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM LAYOUTS, ROOM DIMENSIONS, CEILING HEIGHTS, BUILDING CONSTRUCTION, AND OTHER ARCHITECTURAL AND STRUCTURAL DETAILS IMPACTING DESIGN.
10. REFER TO FIRE PROTECTION SPECIFICATIONS FOR REQUIREMENTS ON MATERIALS, METHODS OF INSTALLATION, PRODUCTS AND GENERAL PROVISIONS.
11. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LOCATION.
12. IN ORDER TO FINALIZE THE PLAN REVIEW RELEASE FOR FIRE PROTECTION AND DEMONSTRATE COMPLIANCE WITH IFC 901.2 & IBC 907.1.1, THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER THE FOLLOWING:
 - A. SHOP DRAWINGS, DETAILS, SPECIFICATIONS, FIRE SUPPRESSION CALCULATIONS, WATER SUPPLY DATA, AND EQUIPMENT DATA SHEETS, FOR THE AUTOMATIC FIRE SPRINKLER SYSTEM TO BE INSTALLED.
 - B. SHOP DRAWINGS, DETAILS, SPECIFICATIONS, EQUIPMENT DATA SHEETS, ETC. ON ALL COMPONENTS AND DEVICES TO BE INSTALLED AS PART OF THE AUTOMATIC FIRE ALARM SYSTEM
 - C. THE SHOP DRAWING SUBMISSION MUST BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF DELEWARE.

ADDENDUMS / REVISIONS

FOR INFORMATION ONLY / WORK BY OTHERS

FP-01

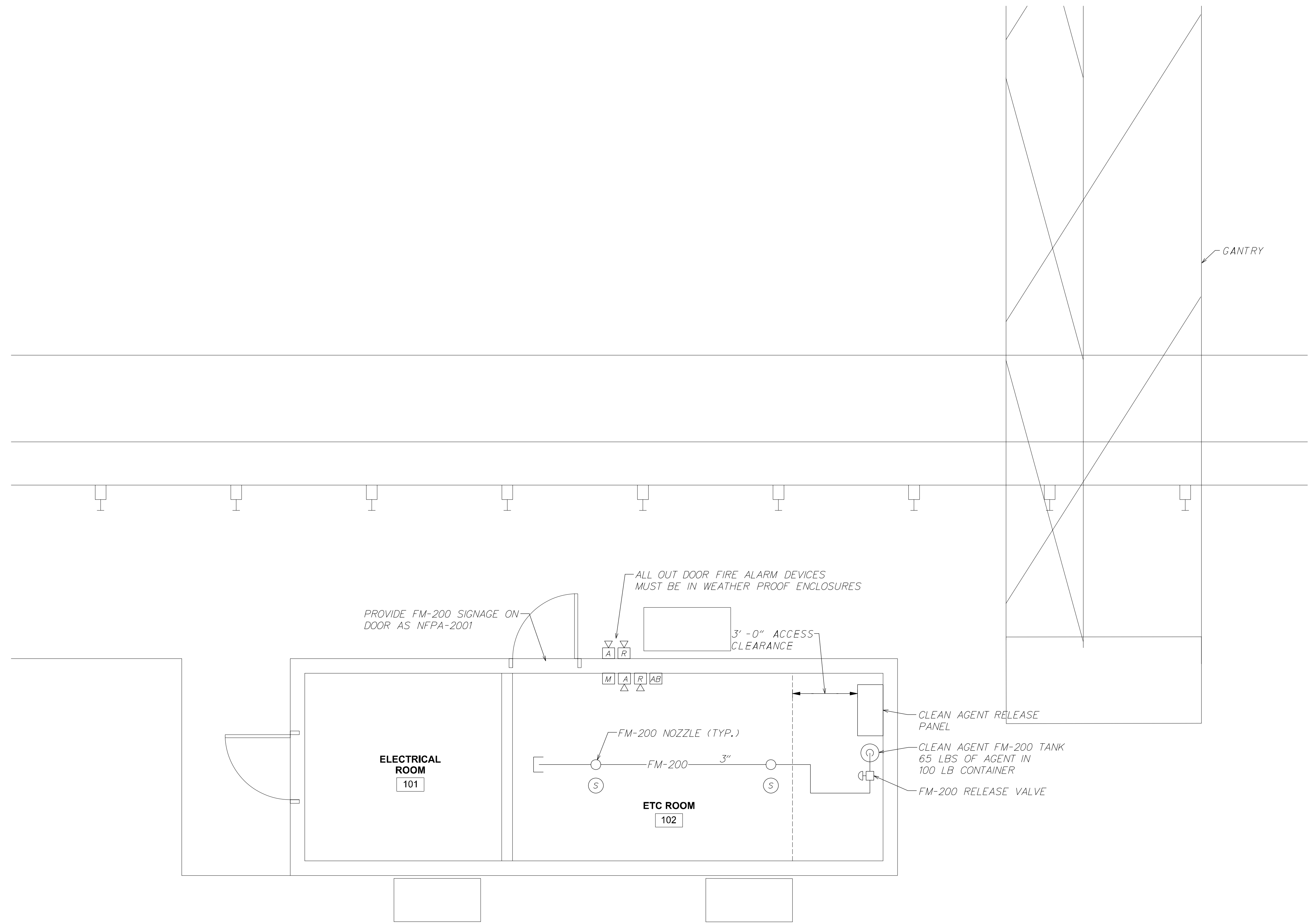
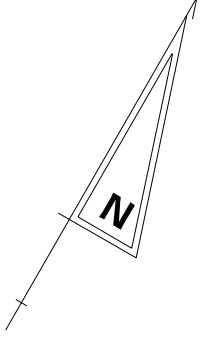


**US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MLW
NEW CASTLE	CHECKED BY:

**FIRE PROTECTION
SYMBOLS, ABBREVIATIONS
& GENERAL NOTES**

SHEET NO.
1206
TOTAL SHTS.
1256



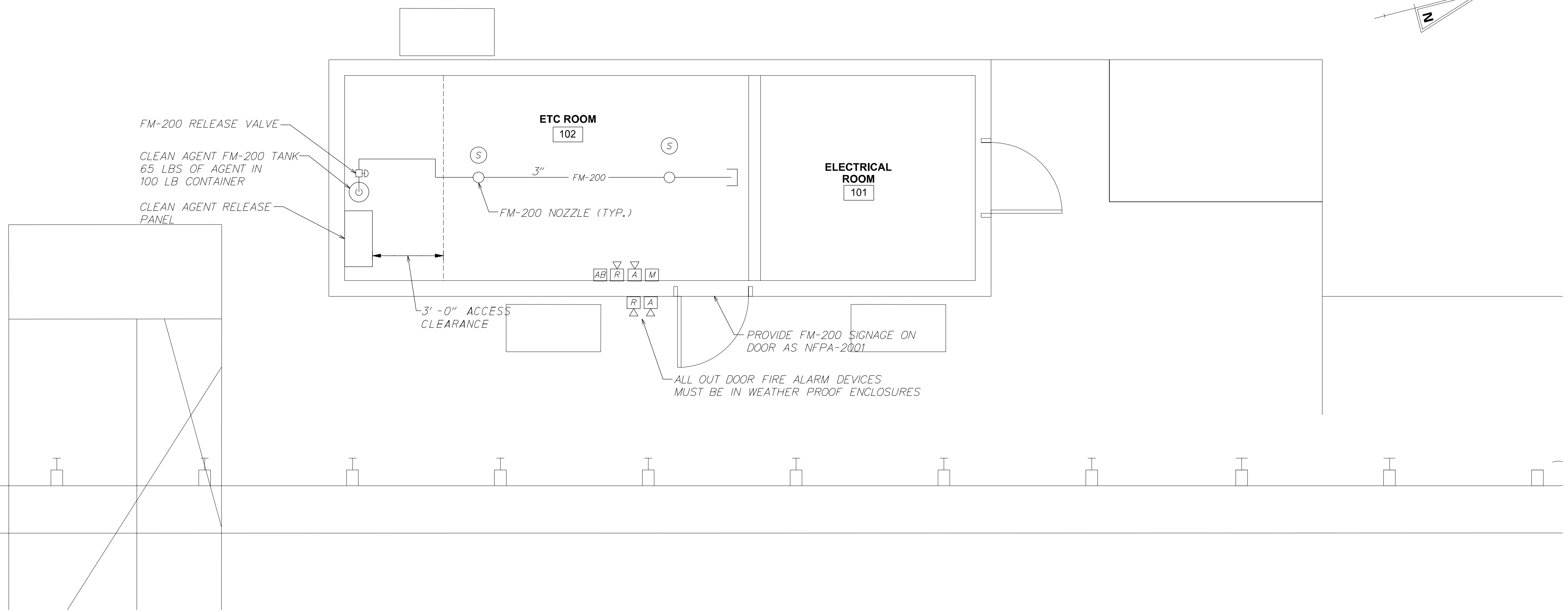
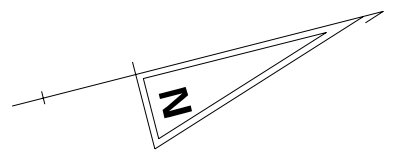
FIRE PROTECTION RAMP HUT PLAN RAMP 'F' & 'L'
SCALE: 3/8" = 1'-0"

LAST REVISED: 3/12/2008
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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	FIRE PROTECTION RAMP HUT PLAN RAMP 'F' & 'L'	SHEET NO.	
			T200911303	DESIGNED BY: MLW		1207	
			NEW CASTLE	CHECKED BY:		TOTAL SHTS.	
						1256	

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FP-02



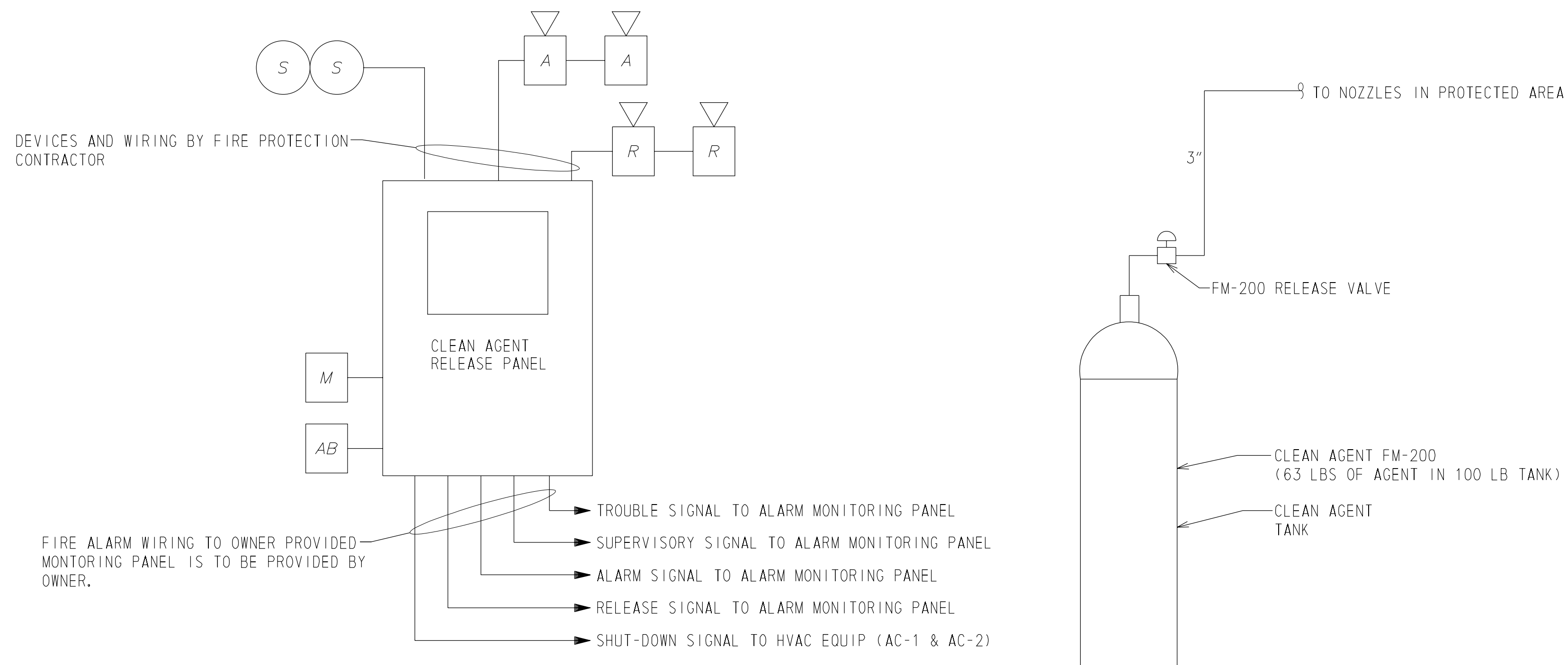
FIRE PROTECTION RAMP HUT PLAN RAMP 'C' & 'I'
SCALE: 3/8" = 1'-0"

LAST REVISED: 3/12/2008
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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS		<p>US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD</p>	CONTRACT	BRIDGE NO.	<p>FIRE PROTECTION RAMP HUT PLAN RAMP 'C' & 'I'</p>	SHEET NO.
				T200911303	DESIGNED BY: MLW		1208
				COUNTY	CHECKED BY:		TOTAL SHTS.
				NEW CASTLE			1256

FOR INFORMATION ONLY / WORK BY OTHERS

FP-03



SEQUENCE OF OPERATIONS

UPON THE PULLING OF A MANUAL PULL STATION THE CLEAN AGENT RELEASE PANEL SHALL:

1. SEND ALARM SIGNAL TO MAIN BUILDING FIRE ALARM PANEL
2. SEND SIGNAL TO SHUT-DOWN HVAC EQUIPMENT
3. RING ALARM HORN AND STROBES
4. ARM THE TANK VALVE AND INITIATE 30 SECOND WAITING PERIOD
5. AT THE END OF 30 SECOND WAITING PERIOD RING RELEASE HORN AND STROBE
6. SEND SIGNAL TO TANK VALVE TO RELEASE AGENT

UPON THE TRIPPING OF ONE SMOKE DETECTOR THE CLEAN AGENT RELEASE PANEL SHALL:

1. SEND ALARM SIGNAL TO MAIN BUILDING FIRE ALARM PANEL
2. RING ALARM HORN AND STROBES.

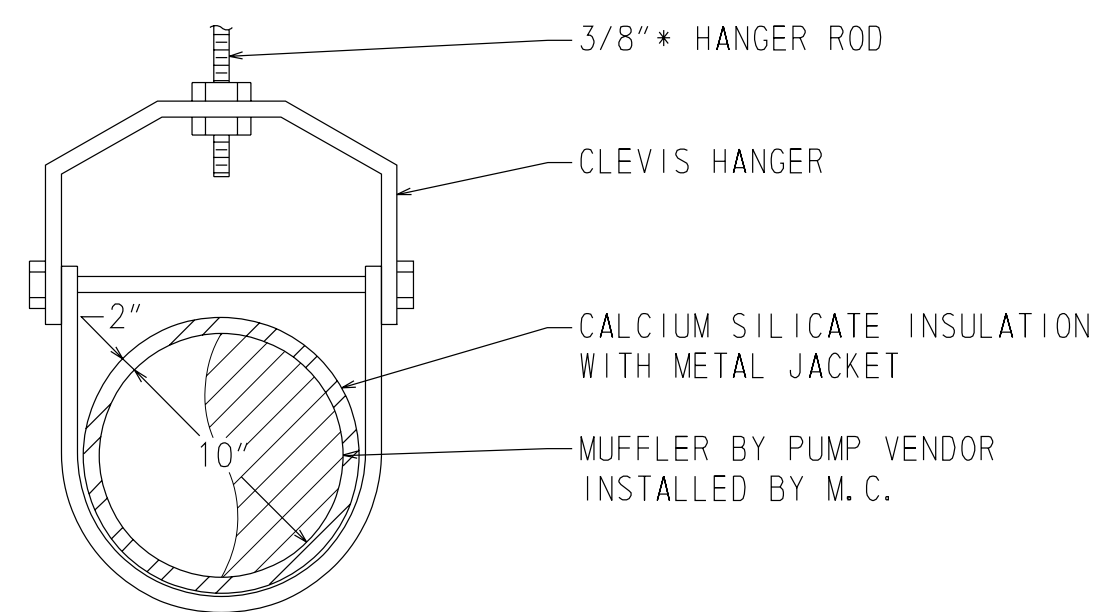
UPON THE TRIPPING OF A SECOND SMOKE DETECTOR THE CLEAN AGENT RELEASE PANEL SHALL:

1. ARM THE TANK VALVE AND INITIATE 30 SECOND WAITING PERIOD.
2. SEND SIGNAL TO SHUT DOWN HVAC EQUIPMENT AND DE-ENERGIZE ANY DOOR OPENERS/HOLDERS.
3. AT THE END OF THE 30 SECOND WAITING PERIOD RING RELEASE HORN AND STROBES
4. SEND SIGNAL TO TANK VALVE TO RELEASE AGENT

UPON RECEIVING SIGNAL FROM MANUAL ABORT SWITCH THE CLEAN AGENT RELEASE PANEL SHALL:

1. DISARM TANK VALVE

1 CLEAN AGENT FIRE SUPPRESSION SYSTEM SCHEMATIC
SCALE: NONE



2 CLEVIS HANGER DETAIL
SCALE: NONE

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FP-04

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: MLW
NEW CASTLE	CHECKED BY:

FIRE PROTECTION
DETAILS & SCHEDULES

SHEET NO.
1209
TOTAL SHTS.
1256

LIGHTING: (NOTE: SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE TYPES)

- LP-1 CIRCUIT 2x2 FLUORESCENT FIXTURE
FIXTURE TYPE
CONTROL DEVICE
2x4 FLUORESCENT FIXTURE
4' FLUORESCENT FIXTURE
8' FLUORESCENT FIXTURE
LIGHT FIXTURE FOR EMERGENCY ILLUMINATION
CEILING MOUNTED DOWN LIGHT
WALL MOUNT FIXTURE
TRACK LIGHTING
POLE STANDARD LIGHT FIXTURE (ONE LUMINAIRE INDICATED)
LIGHTING BOLLARD
EXIT SIGN FIXTURE (SINGLE FACE UNIVERSAL MOUNT INDICATED)
EXIT SIGN FIXTURE W/DIRECTIONAL ARROWS (DOUBLE FACE UNIVERSAL MOUNT INDICATED)
SWITCH, SINGLE POLE
SWITCH, 3-WAY
SWITCH, 4-WAY
SWITCH, DIMMER
SWITCH WITH PILOT LIGHT
TIME CLOCK
DIRECTIONAL MOTION DETECTOR LIGHT CONTROL
MULTI-DIRECTIONAL MOTION DETECTOR LIGHT CONTROL
WALL OCCUPANCY SENSOR
WALL VACANCY SENSOR
SPECIAL PURPOSE LIGHT SWITCH: DESCRIPTION OF SWITCH WILL BE AS NOTED ON DRAWINGS
PHOTOLELECTRIC CONTROL
LIGHTING CONTACTOR: REPRESENTS LIGHTING CONTACTOR IDENTIFICATION
LIGHTING CONTACTOR REMOTE CONTROL: REPRESENTS LIGHTING CONTACTOR TO BE CONTROLLED

- EMERGENCY LIGHTING:
EMERGENCY BATTERY PACK FIXTURE WITH TWO HEADS
TD - TIME DELAY RESET
REMOTE HEADS FOR EMERGENCY BATTERY PACK UNIT

- FIRE ALARM SYSTEM:
FACP FIRE ALARM CONTROL PANEL
FAAP FIRE ALARM ANNUNCIATOR PANEL
F FIRE ALARM MANUAL PULL STATION
S SMOKE DETECTOR (PHOTOELECTRIC U.O.N.)
R HEAT DETECTOR (FIXED TEMP U.O.N.) RATE OF RISE
D DUCT SMOKE DETECTOR
FS SPRINKLER SYSTEM WATER FLOW SWITCH
TS SPRINKLER SYSTEM TAMPER SWITCH
F/C CEILING MOUNTED FIRE ALARM STROBE CANDELL RATING (15 U.O.N.)
F FIRE ALARM SPEAKER/STROBE
F FIRE ALARM SPEAKER
F/H FIRE ALARM HORN/STROBE
MM MONITOR MODULE
CM CONTROL MODULE
RTI REMOTE-TEST-INDICATOR
DH MAGNETIC DOOR HOLDER
CO CARBON MONOXIDE DETECTOR
SD SMOKE DAMPER
DACT DIGITAL ALARM COMMUNICATOR TRANSMITTER

SYMBOLS AND ABBREVIATIONS ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION INTO THE PROJECT.

- GENERAL POWER:
S SINGLE RECEPTACLE (NEMA 5-20R)
GF RECEPTACLE WIRED TO GROUND FAULT CIRCUIT BREAKER
IG ISOLATED GROUND
S SWITCHED
TR TAMPER
WR WEATHER RESISTANT RECEPTACLE W/IN-USE COVER (WET LOCATION)
WR WEATHER RESISTANT RECEPTACLE W/NON-IN-USE COVER (DAMP LOCATION)
DUPLUX RECEPTACLE (NEMA 5-20R)
DOUBLE DUPLUX RECEPTACLE
GROUND FAULT CIRCUIT INTERRUPTER (DUPLUX NEMA 5-20R)
SPECIAL PURPOSE RECEPTACLE (NEMA CONFIGURATION AS NOTED)
RECEPTACLE FLOOR MOUNTED
SPECIAL PURPOSE RECEPTACLE FLOOR MOUNTED (NEMA CONFIGURATION AS NOTED)
MULTIOUTLET ASSEMBLY: LENGTH, TYPE AND QUANTITY OF RECEPTACLES AS NOTED
P POWER POLE
WB WALL BOX FOR MODULAR FURNITURE WHIP
J JUNCTION BOX
N NON FUSED SAFETY SWITCH
S SWITCH RATING
30A SWITCH RATING
20AF FUSE RATING
F FUSED SAFETY SWITCH
30AS SWITCH RATING
20AF FUSE RATING
M MAGNETIC MOTOR STARTER
NEMA SIZE
ENCLOSURE NEMA RATING
CMB COMBINATION MAGNETIC MOTOR STARTER
NEMA SIZE
CB ENCLOSED CIRCUIT BREAKER
C CONTACTOR
T TIME SWITCH
SM MANUAL MOTOR SWITCH (WITHOUT OVERLOADS)
SMT MANUAL MOTOR STARTER (WITH THERMAL OVERLOADS)
SMP MANUAL MOTOR SWITCH WITH PILOT LIGHT
HS CONTROL STATION, TYPE AS NOTED
M MUSHROOM SWITCH
O MOTOR (HORSEPOWER INDICATED ON PLANS)
T TRANSFORMER
G GENERATOR
MOD MOTOR OPERATED DAMPER
T THERMOSTAT
UPS UNINTERRUPTIBLE POWER SUPPLY
SPD SURGE PROTECTIVE DEVICE
U UNIT HEATER

- COMMUNICATIONS:
S CEILING SPEAKER
S WALL MOUNTED SPEAKER
S/S WALL MOUNTED DOUBLE SPEAKER
P POLE MOUNTED SPEAKER
P/S POLE MOUNTED DOUBLE SPEAKER
V VOICE DATA OUTLET
D DATA OUTLET
INDICATES NUMBER OF PORTS
F FLOOR MOUNTED OUTLET
CATV CABLE TELEVISION OUTLET
P/P TELEPHONE OUTLET
PAY PHONE
W WALL MOUNTED
W WALL BOX FOR SYSTEMS FURNITURE VOICE/DATA WHIP
TTC TELEPHONE TERMINAL CABINET
ACCESS CONTROL/INTRUSION ALARM:
ACP ACCESS/INTRUSION ALARM CONTROL PANEL
D DOOR CONTACT
KP ACCESS KEYPAD
ACR ACCESS CARD READER
MD MOTION DETECTOR
CCTV CLOSED CIRCUIT TELEVISION CAMERA

- ACCESS CONTROL/INTRUSION ALARM:
ACP ACCESS/INTRUSION ALARM CONTROL PANEL
D DOOR CONTACT
KP ACCESS KEYPAD
ACR ACCESS CARD READER
MD MOTION DETECTOR
CCTV CLOSED CIRCUIT TELEVISION CAMERA

- GROUNDING:
GND GROUND ROD
EXOTHERMIC WELD CONNECTION
MECHANICAL CONNECTION (BOLTED OR COMPRESSION)
BARE COPPER CONDUCTOR EXPOSED
G BARE COPPER CONDUCTOR BURIED OR EMBEDDED IN CONCRETE

- ONE LINE DIAGRAM:
MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER
LOW VOLTAGE DRAWOUT CIRCUIT BREAKER
AMP FRAME
AMP TRIP
ELECTRICALLY OPERATED
CIRCUIT BREAKER
ST - SHUNT TRIP
GF - GROUND FAULT
EO - ELECTRICALLY OPERATED
DISCONNECT, ISOLATION OR SAFETY SWITCH
FUSED CUTOFF
FUSED LOAD BREAK SWITCH
MEDIUM VOLTAGE MOTOR STARTER
MAGNETIC MOTOR STARTER, NUMERAL INDICATES NEMA SIZE
FVNR - FULL VOLTAGE REVERSING
RVAT - REDUCING VOLTAGE AUTO TRANSFORMER
2S - 2 SPEED
RVSS - REDUCED VOLTAGE SOLID STATE
CAPACITOR
VFD VARIABLE FREQUENCY DRIVE
POWER TRANSFORMER
CONNECTION
SHIELDED ISOLATION TRANSFORMER
POTENTIAL TRANSFORMER RATIO NUMBER REQUIRED
CURRENT TRANSFORMER RATIO NUMBER REQUIRED
GROUND FAULT CURRENT TRANSFORMER
MOTOR, NUMBER INDICATES HORSE POWER
GENERATOR
ATS - AUTOMATIC TRANSFER SWITCH
MTS - MANUAL TRANSFER SWITCH
METER
A - AMMETER
V - VOLT METER
W - WATT METER
WH - WATT HOUR METER
KWH - KILOWATT HOUR
KVAR - KILOVAR METER
VAR - VAR METER
HZ - FREQUENCY METER
PF - POWER FACTOR METER
DPM DIGITAL POWER METER
AS METER TRANSFER SWITCH
AS - AMMETER SWITCH
VS - VOLT METER SWITCH
SPD SURGE PROTECTIVE DEVICE
LIGHTNING ARRESTOR
KEY INTERLOCK
FUSE
ELECTRONIC POWER FUSE
DRAWOUT DEVICE
GROUND

- MISCELLANEOUS:
EQUIPMENT IDENTIFICATION
SECTION IDENTIFICATION
SECTION NOMENCLATURE
SHEET NUMBER ON WHICH SECTION IS SHOWN
SITE WORK
BLDG PLANS
DETAIL IDENTIFICATION
DETAIL NOMENCLATURE
SHEET NUMBER ON WHICH DETAIL IS SHOWN
COMMUNICATION
ELECTRIC
TELEPHONE
OVERHEAD ELECTRIC
OVERHEAD TELEPHONE
UTILITY POLE
HANDHOLE
MANHOLE
CONDUIT FEEDERS & BRANCH CIRCUITS:
CONDUIT
CONDUIT - EMBEDDED IN FLOOR OR EARTH
CONDUIT TURNED UP
CONDUIT TURNED DOWN
CONDUIT CAPPED
CIRCUIT HOME RUN
FEEDER IDENTIFICATION (SEE FEEDER LEGEND ON DRAWING)
CONDUIT FEEDER IDENTIFICATION
TYPICAL FEEDER WITH NO SIZE IDENTIFICATION SEE GENERAL NOTE 9

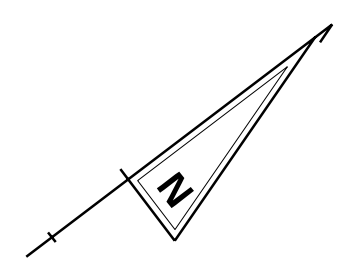
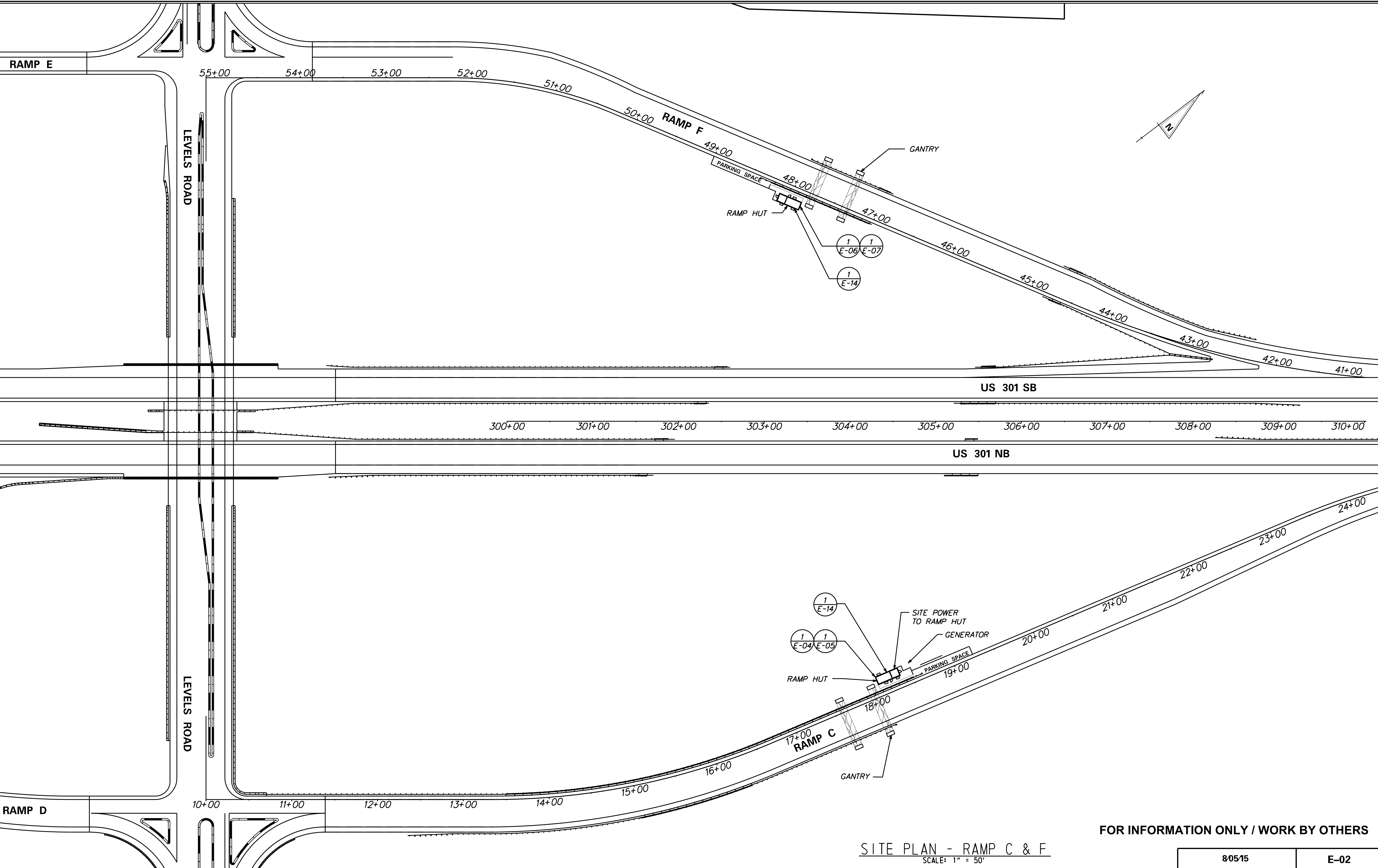
- WIRING METHODS:
INTERIOR
1. EXPOSED AREAS NOT SUBJECT TO PHYSICAL ABUSE-EMT.
2. EXPOSED AREAS SUBJECT TO ABUSE-RIGID STEEL CONDUIT.
3. ELEVATOR PIT-RIGID STEEL CONDUIT.
4. CONCEALED IN STUD WALL OR ABOVE SUSPENDED CEILING-EMT OR TYPE MC CABLE.
5. CONCEALED IN MASONRY WALLS - EMT OR RIGID STEEL CONDUIT.
TUNNEL
1. RIGID STEEL CONDUIT
EXTERIOR
1. RIGID STEEL CONDUIT
BELOW GRADE
1. CONCRETE ENCASED-SCHEDULE 40 PVC
2. DIRECT BURIED-SCHEDULE 40 PVC
PENETRATIONS
1. UP THROUGH GRADE-PVC COATED RIGID STEEL
2. THROUGH FOUNDATION WALLS-PVC COATED RIGID STEEL

- ABBREVIATIONS:
A OR AMP AMPERE
AC ALTERNATING CURRENT
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
AHJ AUTHORITY HAVING JURISDICTION
AIC AMPERE INTERRUPTING CAPACITY
AL ALUMINUM
ATS AUTOMATIC TRANSFER SWITCH
AUG AUTOMATIC
AWG AMERICAN WIRE GAUGE
BFG BELOW FINISHED GRADE
BLDG BUILDING
BOS BOTTOM OF STEEL
C CONDUIT
CB CIRCUIT BREAKER
CCTV CLOSED CIRCUIT TELEVISION
CP CONTROL PANEL
CPT CONTROL POWER TRANSFORMER
CT CURRENT TRANSFORMER
CU COPPER
DISC DISCONNECT
DIV DIVISION
DN DOWN
DS DISCONNECT SWITCH
EC ELECTRICAL CONTRACTOR
EMT ELECTRICAL METALLIC TUBING
EF EXHAUST FAN
ECH ELECTRIC CABINET HEATER
EGC EQUIPMENT GROUNDING CONDUCTOR
EUH ELECTRIC UNIT HEATER
EWC ELECTRIC WATER COOLER
FAAP FIRE ALARM ANNUNCIATOR PANEL
FACP FIRE ALARM CONTROL PANEL
FBO FURNISHED BY OTHERS
FC FAILS CLOSED
F/T FEED THROUGH
FU FUSE
FRE FIBERGLASS REINFORCED EPOXY
FWE FURNISHED WITH EQUIPMENT
GF GROUND FAULT
GFCI GROUND FAULT CIRCUIT INTERRUPTER
GRD GROUND
HID HIGH INTENSITY DISCHARGE
HP HORSEPOWER
HPS HIGH PRESSURE SODIUM
HVAC HEAT-VENT-AIR CONDITIONING
IG ISOLATED GROUND
IND INDUSTRIAL
JIC JOINT INDUSTRIAL COUNCIL
KV KILOVOLT
KVA KILOVOLT AMPERE
KVAR KILOWARS
KW KILOWATT
LA LIGHTNING ARRESTOR
LC LIGHTING CONTACTOR
LTG LIGHTING
MC METAL CLAD
MCB MAIN CIRCUIT BREAKER
MCC MAIN CONTROL CENTER
MFR MANUFACTURE
MI MINERAL INSULATED
MLO MAIN LUG ONLY
MDA MULTI-OUTLET ASSEMBLY
MOD MOTOR OPERATED DAMPER
MS MOTOR STARTER
MT MANUAL TRANSFER SWITCH
MTD MOUNTED
MV MEDIUM VOLTAGE
N/A NOT APPLICABLE
NC NORMALLY CLOSED
NEC NATIONAL ELECTRICAL CODE
NEUT NEUTRAL
NIC NOT IN CONTRACT
NO NORMALLY OPEN
N# NUMBER
NTS NOT TO SCALE
PF POWER FACTOR
PH PHASE
PM POWER MONITOR
PNL PANEL
PT POTENTIAL TRANSFORMER
PVC POLYVINYL CHLORIDE
RECP RECEPTACLES
RGS RIGID GALVANIZED STEEL(CONDUIT)
RTD RESISTANCE TEMPERATURE DETECTOR
RVAT REDUCED VOLTAGE AUTOTRANSFORMER
RVSS REDUCED VOLTAGE SOLID STATE
SC SURGE CAPACITOR
SN SOLID NEUTRAL
SPD SURGE PROTECTIVE DEVICE
STP SHIELDED TWISTED PAIR
STT SHIELDED TWISTED TRIPLET
SW SWITCH
SWBD SWITCHBOARD
TC TRAY-CABLE
TOS TOP OF STEEL
TTB TELEPHONE TERMINAL BOARD
TTC TELEPHONE TERMINAL CABINET
TYP TYPICAL
UL UNDERWRITERS LABORATORIES
UH UNIT HEATER
UON UNLESS OTHERWISE NOTED
UPS UNINTERRUPTIBLE POWER SUPPLY
V VOLT
VA VOLT AMPERE
VAR VOLT AMPERE REACTIVE
W WIRE
WP WEATHERPROOF
WR WEATHER RESISTANT
XFMR TRANSFORMER
1-PH SINGLE PHASE
3-PH THREE PHASE

- GENERAL NOTES:
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70) AS ADOPTED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
2. ARCHITECTURAL FEATURES SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS, SECTIONS, ELEVATIONS, PARTITION RATINGS AND CONSTRUCTION DETAILS OF BUILDING ELEMENTS.
3. EQUIPMENT LOCATIONS ARE SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL, HVAC, PLUMBING, FIRE PROTECTION AND EQUIPMENT PLANS FOR EQUIPMENT LOCATIONS.
4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK AND DO NOT SHOW EVERY SUPPORT, OFFSET, FITTING OR COMPONENT. PROVIDE ALL MATERIALS FOR A COMPLETE ELECTRICAL INSTALLATION AND FIELD VERIFY ALL DIMENSIONS.
5. COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
6. ALL MOTOR SAFETY SWITCHES, LOCAL DISCONNECTS, MOTOR STARTERS AND DRIVES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR (DIVISION 26) UNLESS OTHERWISE NOTED ON THE DRAWINGS AS FURNISHED WITH EQUIPMENT (FWE).
7. ALL PENETRATIONS THROUGH FLOORS, WALLS AND RATED PARTITIONS SHALL BE SEALED WITH UL LISTED FIRE SEALANT MATERIALS TO MAINTAIN THE RATING OF THE SEPARATION.
8. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED WITH EVERY FEEDER AND BRANCH CIRCUIT.
9. ALL WIRING SHALL BE COPPER. WHERE CONDUCTOR SIZES ARE NOT INDICATED ON THE DRAWINGS, MINIMUM WIRING SHALL BE (2) #12 AWG & #12 GND FOR SINGLE PHASE CIRCUITS LESS THAN 75 FEET AND (3) #12 & #12 GND FOR THREE PHASE CIRCUITS. WIRE SIZE FOR 20 AMP-120 VOLT BRANCH CIRCUITS WITH CIRCUIT LENGTH GREATER THAN 75 FEET SHALL BE (2) #10, (1) #10 GND IN 1/2" C. BRANCH CIRCUITS WITH CIRCUIT LENGTH GREATER THAN 125 FEET SHALL BE (2) #8, (1) #8 GND IN 1/2" C. BRANCH CIRCUITS WITH CIRCUIT LENGTH GREATER THAN 200 FEET SHALL BE (2) #6, (1) #6 GND IN 1/2" C. BRANCH CIRCUITS WITH CIRCUIT LENGTH GREATER THAN 250 FEET SHALL BE (2) #4, (1) #4 GND IN 1" C. SHORT TAPS OFF THE MAIN RUN TO INDIVIDUAL OUTLETS SHALL BE PERMITTED TO BE #12 AWG.

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LAST REVISED: 3/12/2008
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SITE PLAN - RAMP C & F
 SCALE: 1" = 50'

FOR INFORMATION ONLY / WORK BY OTHERS

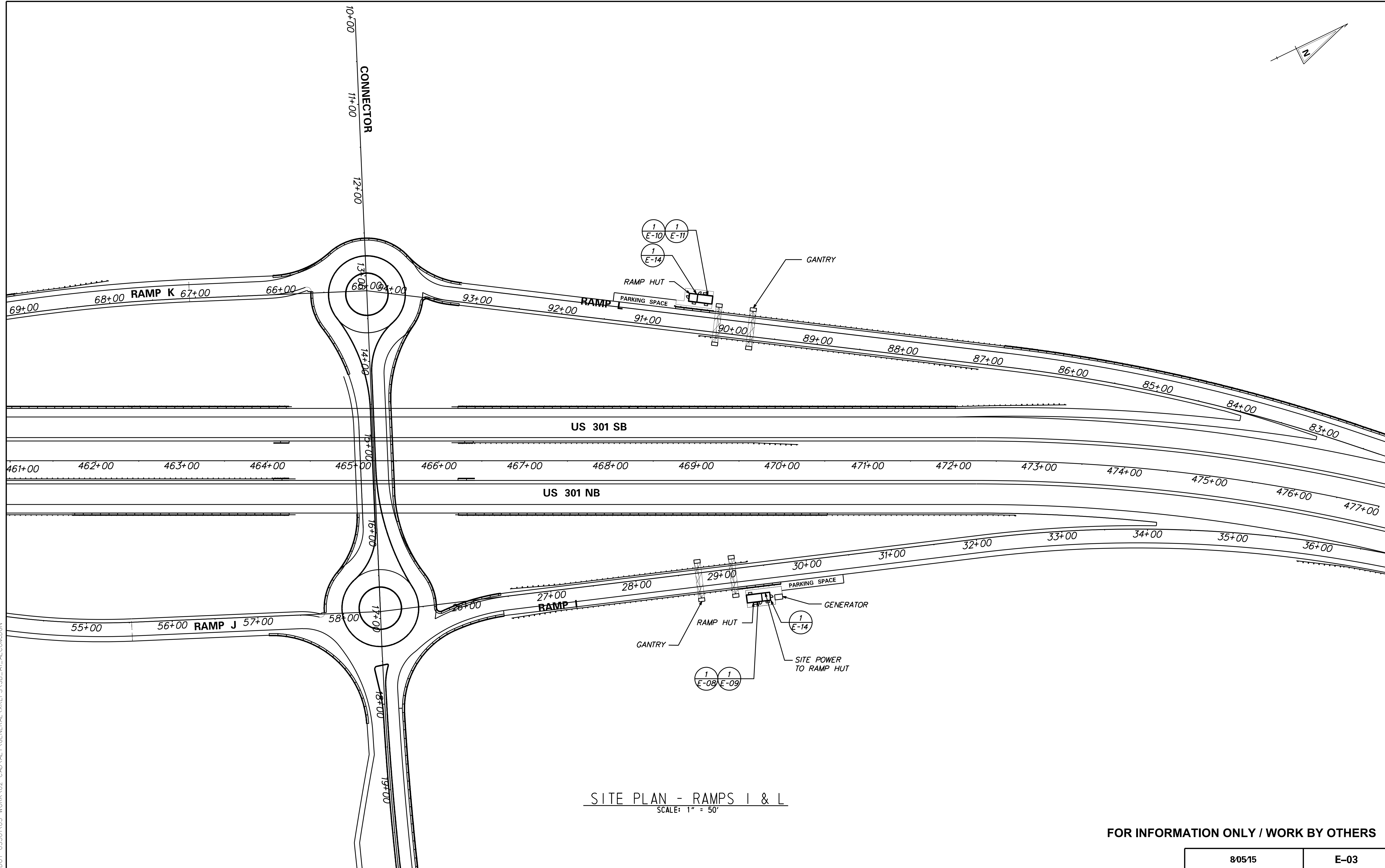
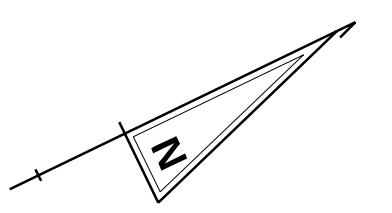


ADDENDUMS / REVISIONS

**US 301
 LEVELS ROAD TO
 SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	DESIGNED BY: RAK
COUNTY	CHECKED BY: JEP
NEW CASTLE	

80515	E-02
ELECTRICAL SITE PLAN SHEET 1 OF 2	
SHEET NO.	1211
TOTAL SHTS.	1256



SITE PLAN - RAMPS I & L
SCALE: 1" = 50'

FOR INFORMATION ONLY / WORK BY OTHERS

LAST REVISED: 3/12/2008
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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

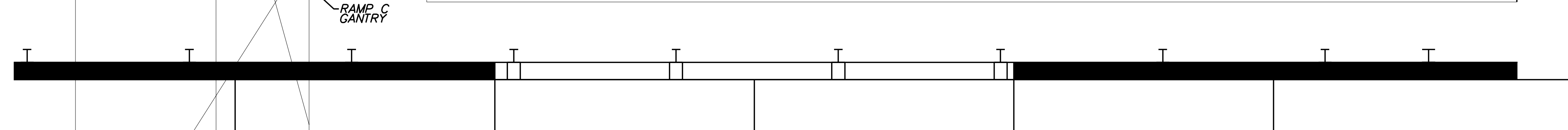
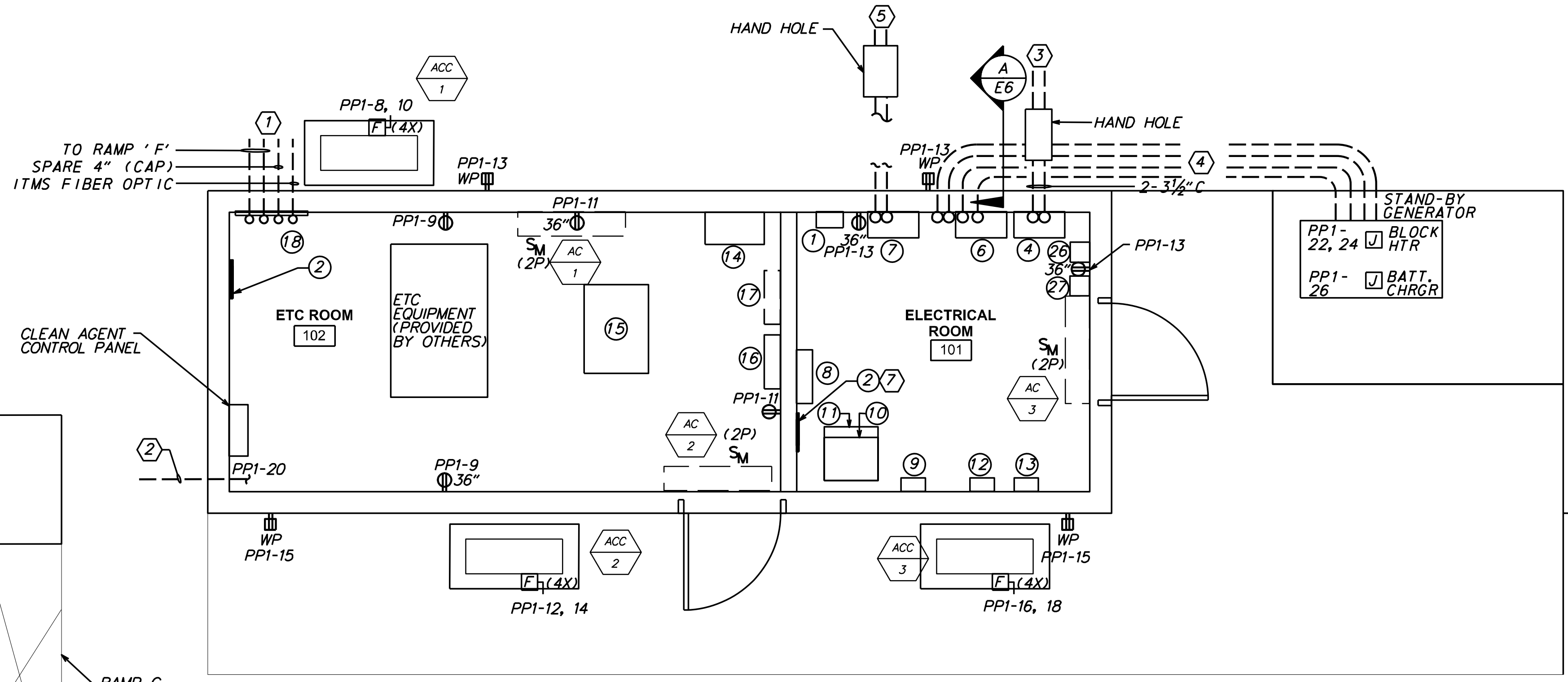
US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: RAK
NEW CASTLE	CHECKED BY: JEP

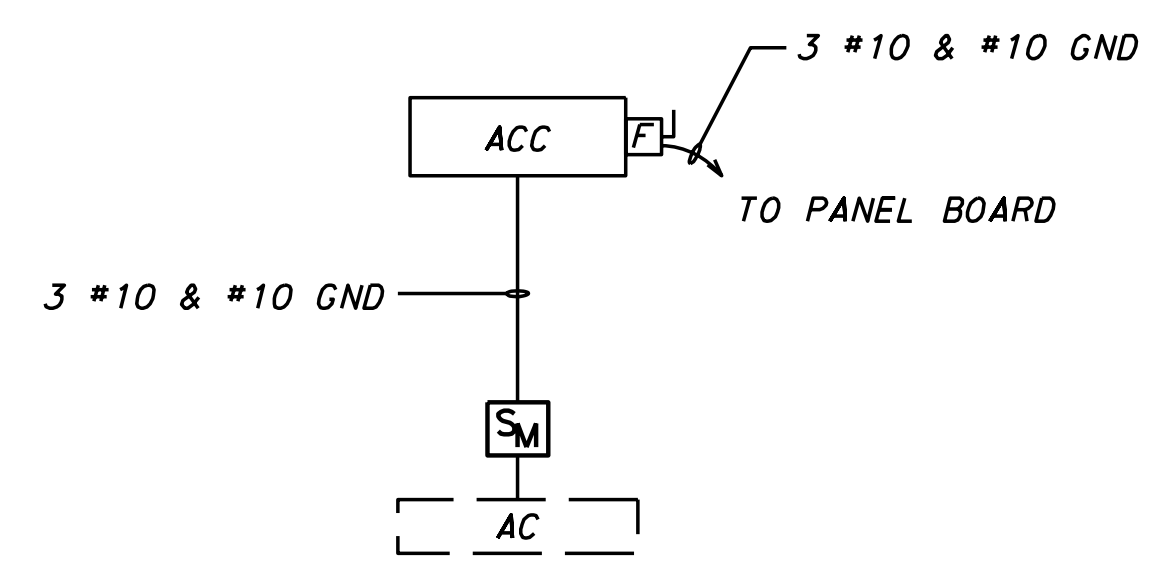
80515	E-03
ELECTRICAL	
SITE PLAN	
SHEET 2 OF 2	
SHEET NO.	1212
TOTAL SHTS.	1256

RAMP 'C'

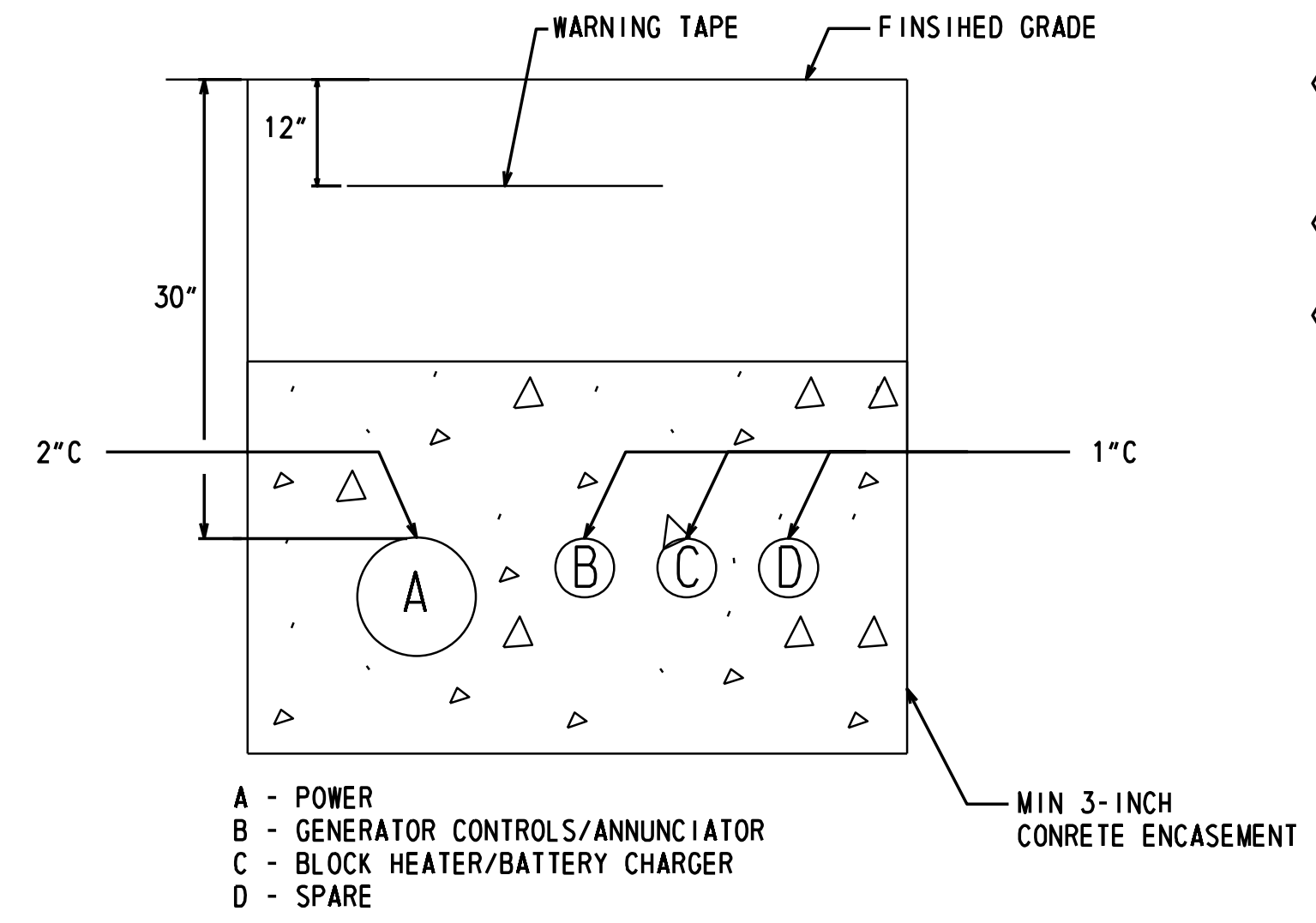
DESIGNATION	DESCRIPTION
①	SURGE PROTECTIVE DEVICE
②	GROUND BUS
③	NOT USED
④	BUILDING DISCONNECT
⑤	NOT USED
⑥	AUTOMATIC TRANSFER SWITCH
⑦	PANEL 'DP-1'
⑧	PANEL 'PP-1'
⑨	15KVA TRANSFORMER SECONDARY CIRCUIT BREAKER
⑩	15KVA TRANSFORMER (HUNG)
⑪	30KVA TRANSFORMER (FLOOR)
⑫	PRIMARY DISCONNECT 15KVA TRANSFORMER
⑬	PRIMARY DISCONNECT 30KVA TRANSFORMER
⑭	UPS MAINTENANCE BYPASS SWITCH
⑮	UPS
⑯	PANEL 'LPP-1'
⑰	PANEL 'LPP-2' (FUTURE)
⑱	3'-0" TELE/DATA BACKBOARD
⑲	NOT USED
⑳	NOT USED
㉑	NOT USED
㉒	NOT USED
㉓	NOT USED
㉔	NOT USED
㉕	NOT USED
㉖	GENERATOR ANNUNCIATOR
㉗	GENERATOR ESTOP
㉘	NOT USED



1 ELECTRICAL RAMP HUT POWER PLAN RAMP 'C'
E-04 SCALE: 3/8" = 1'-0"



2 DUCTLESS SPLIT SYSTEM WIRING
E-04 SCALE: N. T. S.



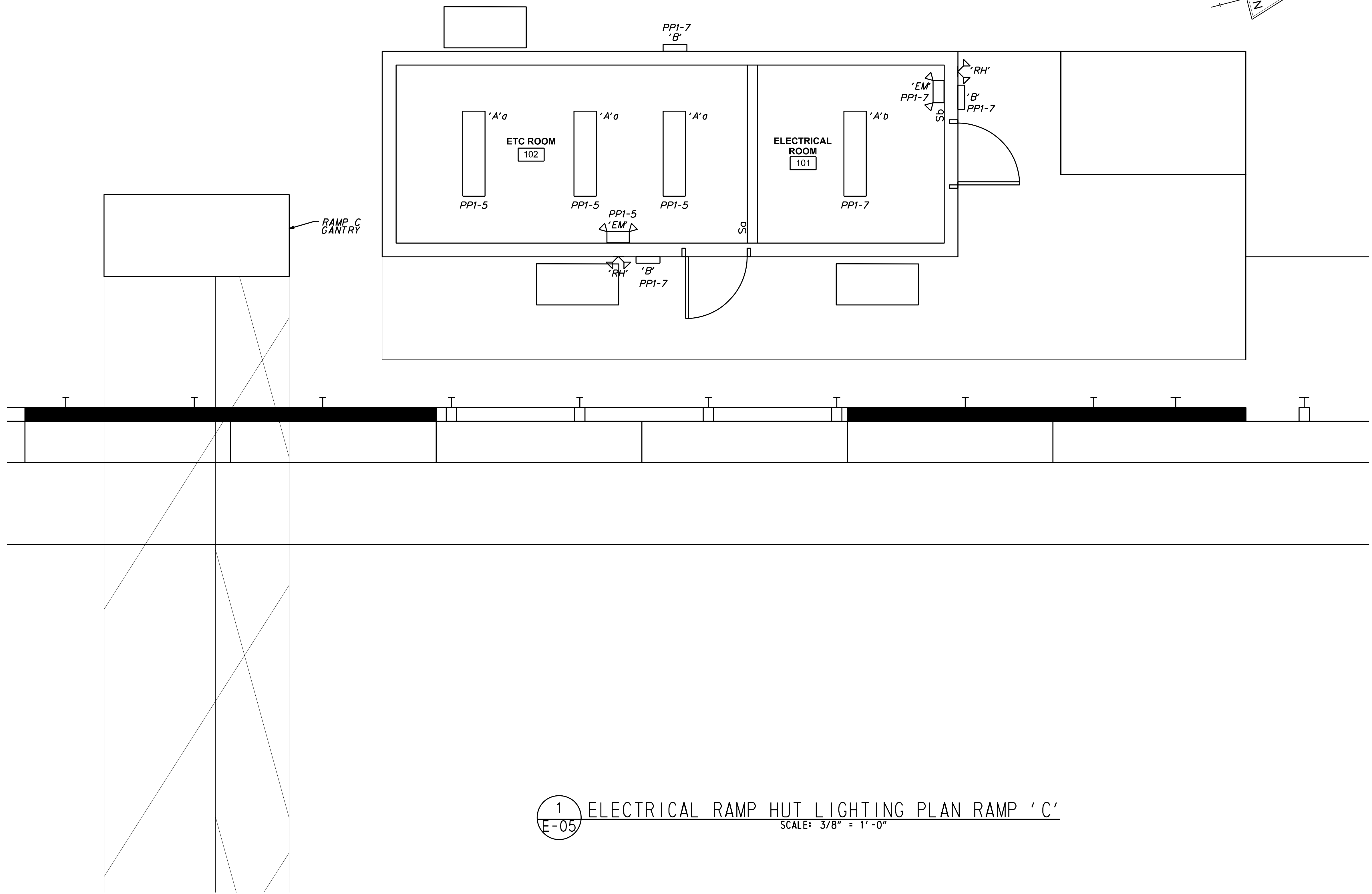
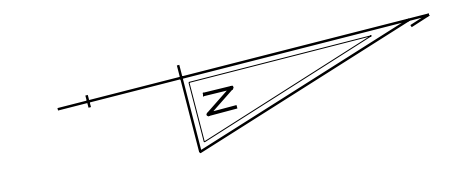
SECTION 'A'

- KEY NOTES:
- ① PROVIDE TWO (2) CONDUITS FOR ITMS BACKBONE AND TWO (2) CONDUITS FOR CONNECTION TO HUT 'F' AS INDICATED. SEE CIVIL PLANS FOR CONDUIT SIZE.
 - ② SEE DRAWINGS ETC-04 FOR ETC CONDUIT QUANTITY AND SIZES.
 - ③ CONDUIT FOR BUILDING POWER FROM SITE DISTRIBUTION.
 - ④ CONDUIT TO GENERATOR.
 - ⑤ POWER CONDUIT TO RAMP 'F' (DP-2). SEE CIVIL DRAWINGS FOR CONTINUATION.
 - ⑥ NOT USED.
 - ⑦ COPPER GROUND BUS, STORM COPPER OR EQUAL, 4" X 12" X 0.25".

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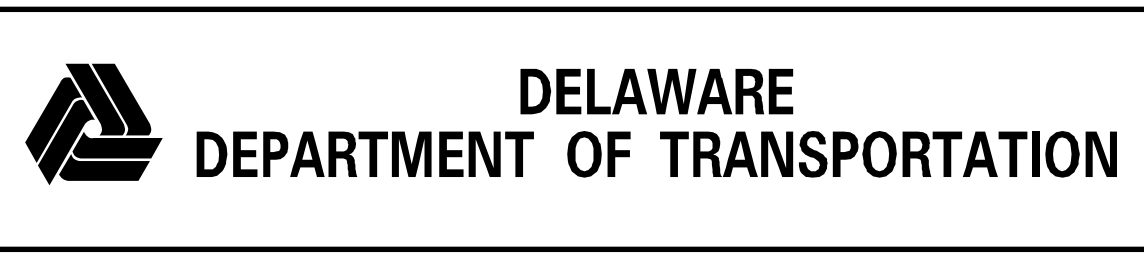
NOTES:
 1. SEE DRAWING E-15 FOR LUMINAIRE SCHEDULE.



1
 E-05 ELECTRICAL RAMP HUT LIGHTING PLAN RAMP 'C'
 SCALE: 3/8" = 1'-0"

FOR INFORMATION ONLY / WORK BY OTHERS

LAST REVISED: 3/12/2008
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ADDENDUMS / REVISIONS	

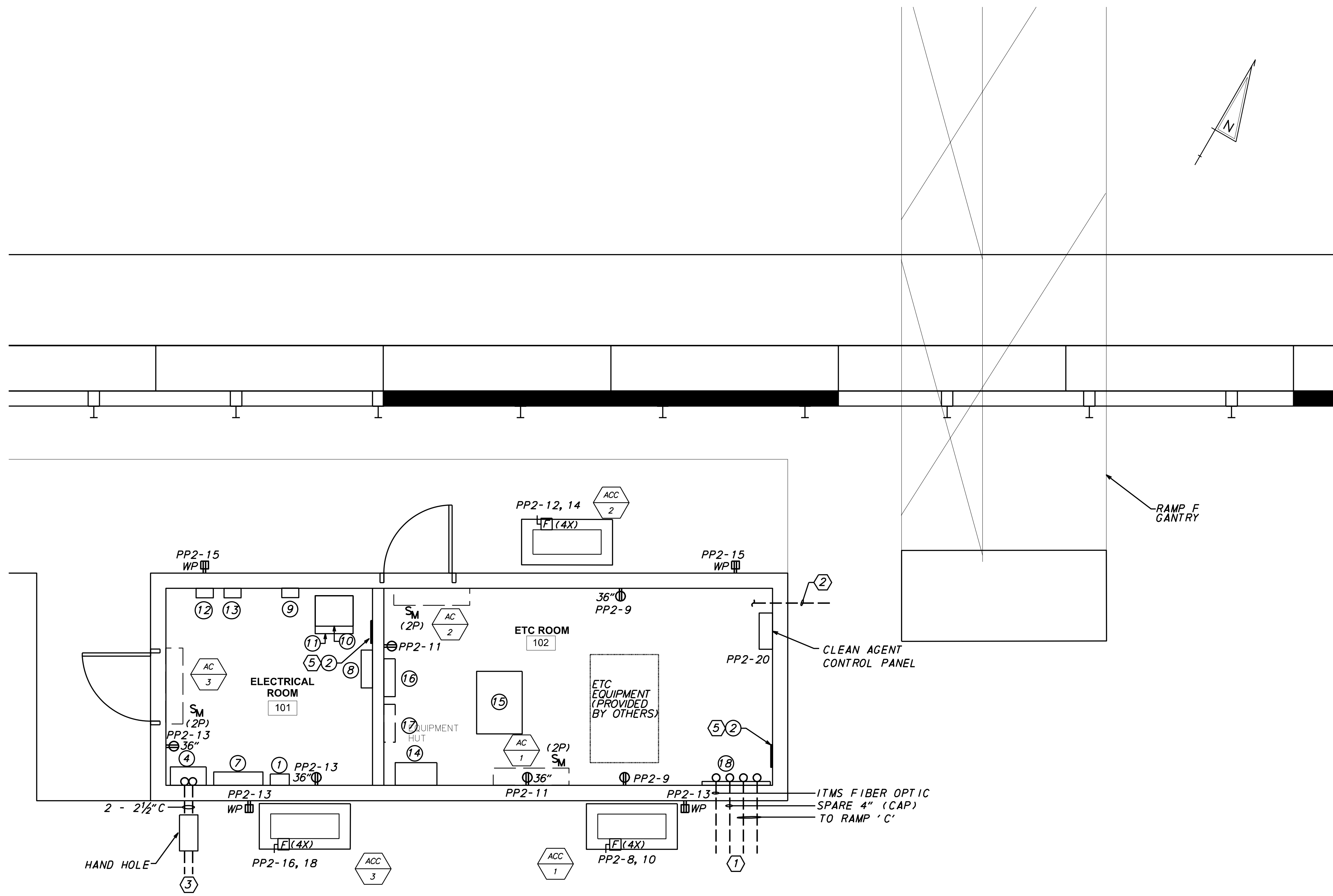
US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: RAK
NEW CASTLE	CHECKED BY: JEP

8/05/15	E-05
ELECTRICAL RAMP HUT LIGHTING PLAN RAMP 'C'	SHEET NO.
	1214
	TOTAL SHTS.
	1256

RAMP 'F'

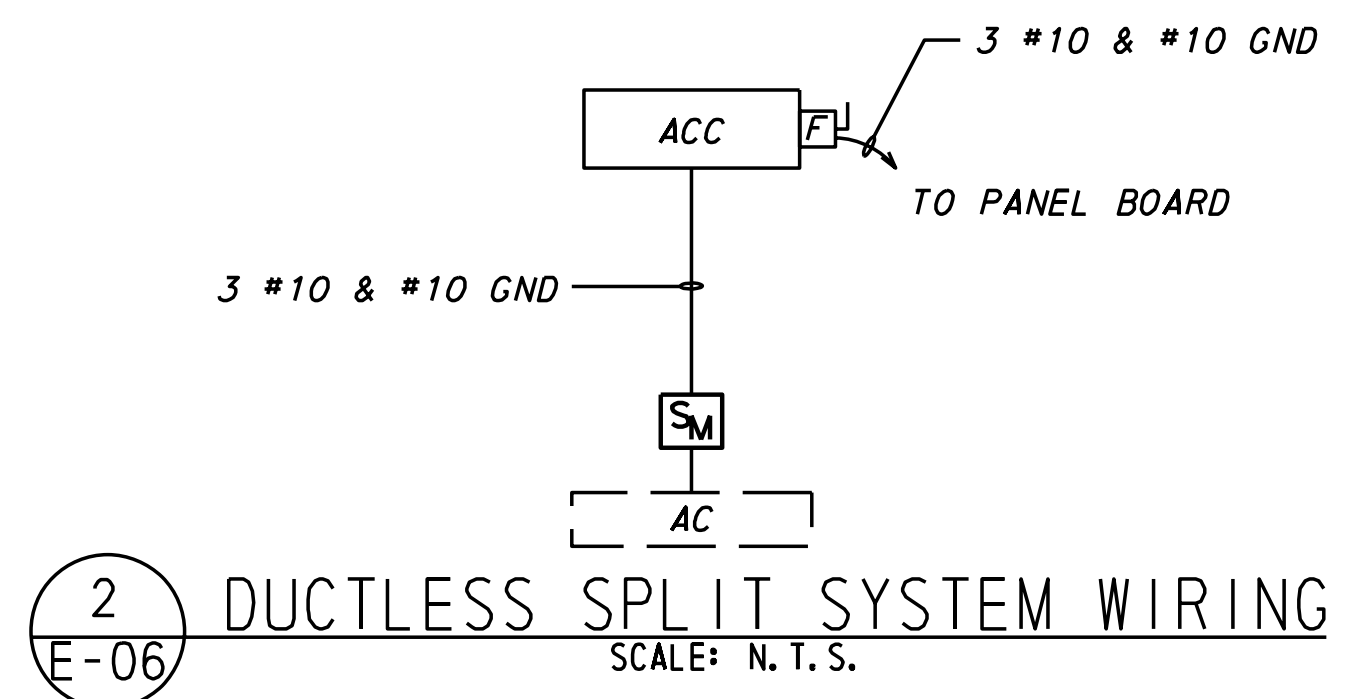
DESIGNATION	DESCRIPTION
(1)	SURGE PROTECTIVE DEVICE
(2)	GROUND BUS
(3)	NOT USED
(4)	BUILDING DISCONNECT
(5)	NOT USED
(6)	NOT USED
(7)	PANEL 'DP-2'
(8)	PANEL 'PP-2'
(9)	15KVA TRANSFORMER SECONDARY CIRCUIT BREAKER
(10)	15KVA TRANSFORMER (HUNG)
(11)	30KVA TRANSFORMER (FLOOR)
(12)	PRIMARY DISCONNECT 15KVA TRANSFORMER
(13)	PRIMARY DISCONNECT 30KVA TRANSFORMER
(14)	UPS MAINTENANCE BYPASS SWITCH
(15)	UPS
(16)	PANEL 'UPP-3'
(17)	PANEL 'UPP-4' (FUTURE)
(18)	3' - 0" TELE/DATA BACKBOARD
(19)	NOT USED
(20)	NOT USED
(21)	NOT USED
(22)	NOT USED
(23)	NOT USED
(24)	NOT USED
(25)	NOT USED
(26)	NOT USED
(27)	NOT USED
(28)	NOT USED



KEY NOTES:

- (1) PROVIDE TWO (2) CONDUITS FOR ITMS BACKBONE AND TWO (2) CONDUITS FOR CONNECTION TO HUT 'C' AS INDICATED. SEE CIVIL PLANS FOR CONDUIT SIZE.
- (2) SEE DRAWING ETC-07 FOR ETC CONDUIT QUANTITY AND SIZES.
- (3) TWO (2) CONDUITS FROM RAMP 'C' HUT PANEL DP-1. SEE CIVIL DRAWINGS FOR CONTINUATION.
- (4) NOT USED
- (5) COPPER GROUND BUS, STORM COPPER OR EQUAL, 4" X 12" X 0.25".

1 ELECTRICAL RAMP HUT POWER PLAN RAMP 'F'
E-06 SCALE: 3/8" = 1' - 0"



2 DUCTLESS SPLIT SYSTEM WIRING
E-06 SCALE: N. T. S.

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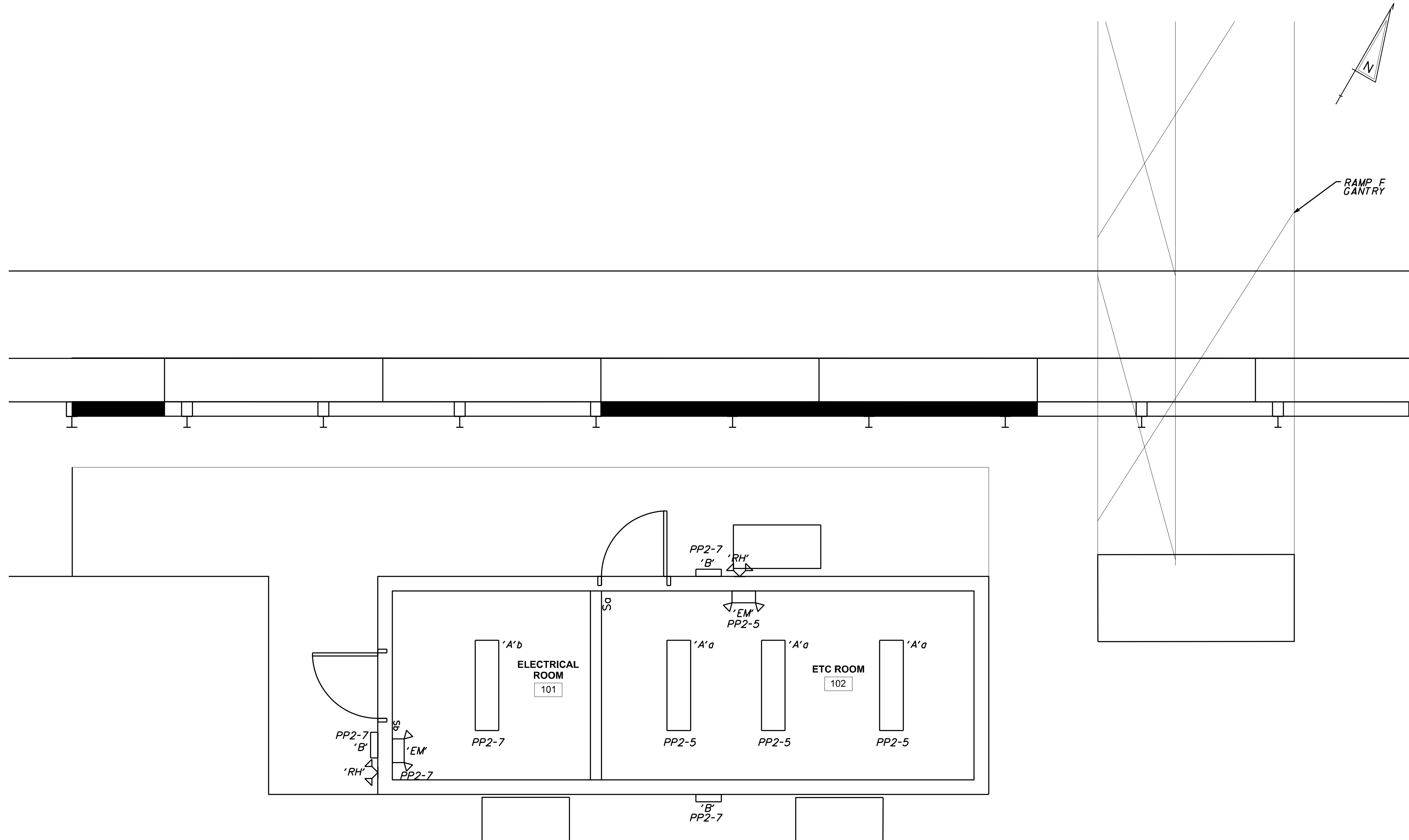
ADDENDUMS / REVISIONS

US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: RAK
	CHECKED BY: JEP

8/05/15	E-06
ELECTRICAL RAMP HUT POWER PLAN RAMP 'F'	SHEET NO. 1215
	TOTAL SHTS. 1256

NOTES:
 1. SEE DWG. E-15 FOR LUMINAIRE SCHEDULE.



1 ELECTRICAL RAMP HUT LIGHTING PLAN RAMP 'F'
 E-07 SCALE: 3/8" = 1'-0"

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LAST REVISED: 3/12/2008
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ADDENDUMS / REVISIONS	

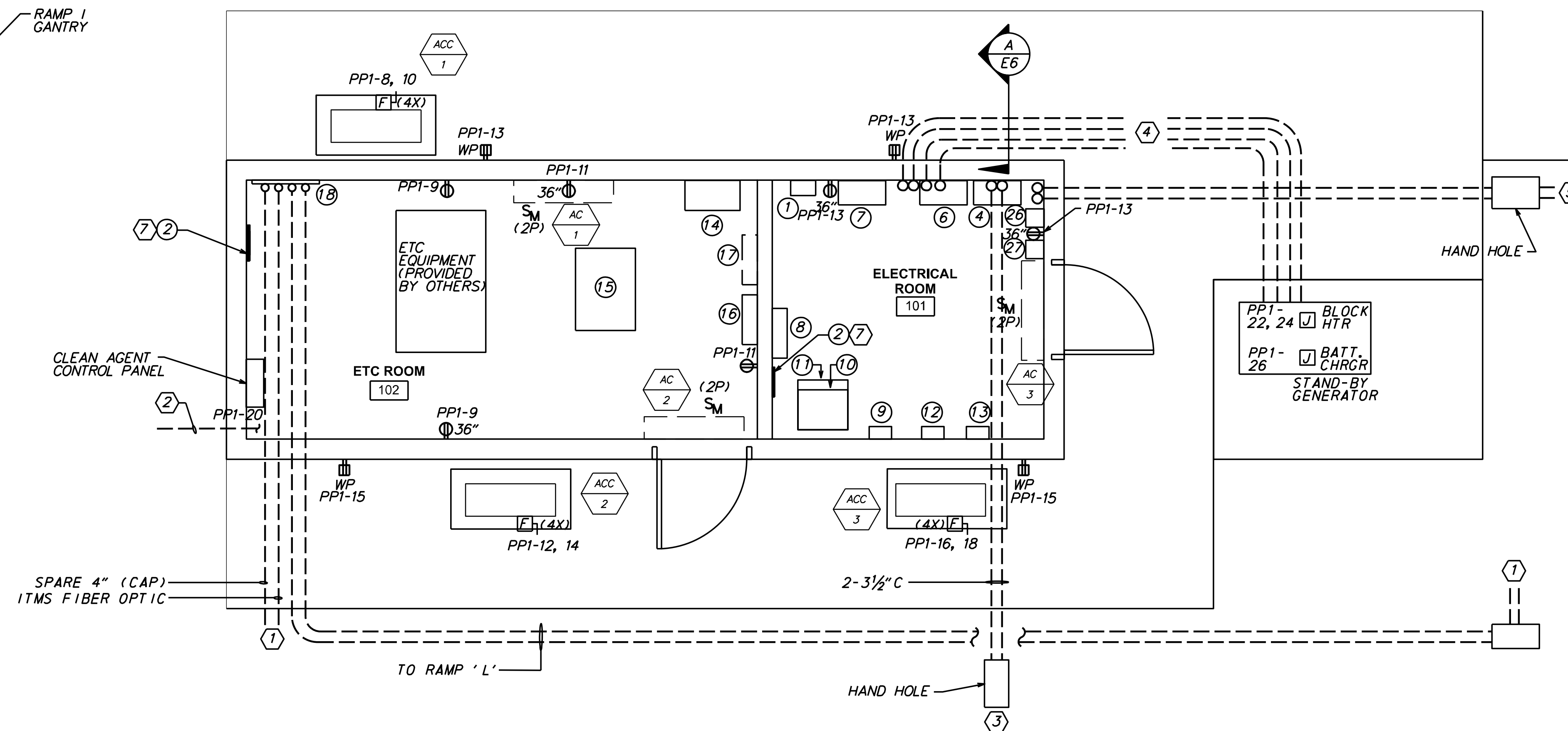
US 301
 LEVELS ROAD TO
 SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: RAK
NEW CASTLE	CHECKED BY: JEP

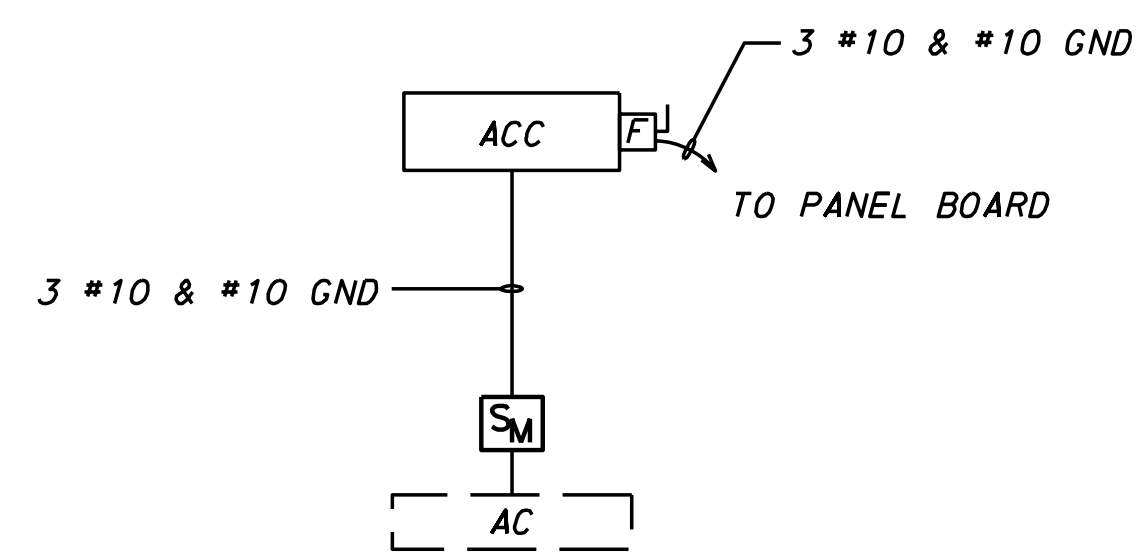
8/05/15	E-07
ELECTRICAL RAMP HUT LIGHTING PLAN RAMP 'F'	SHEET NO. 1216
	TOTAL SHTS. 1256

RAMP ' I '

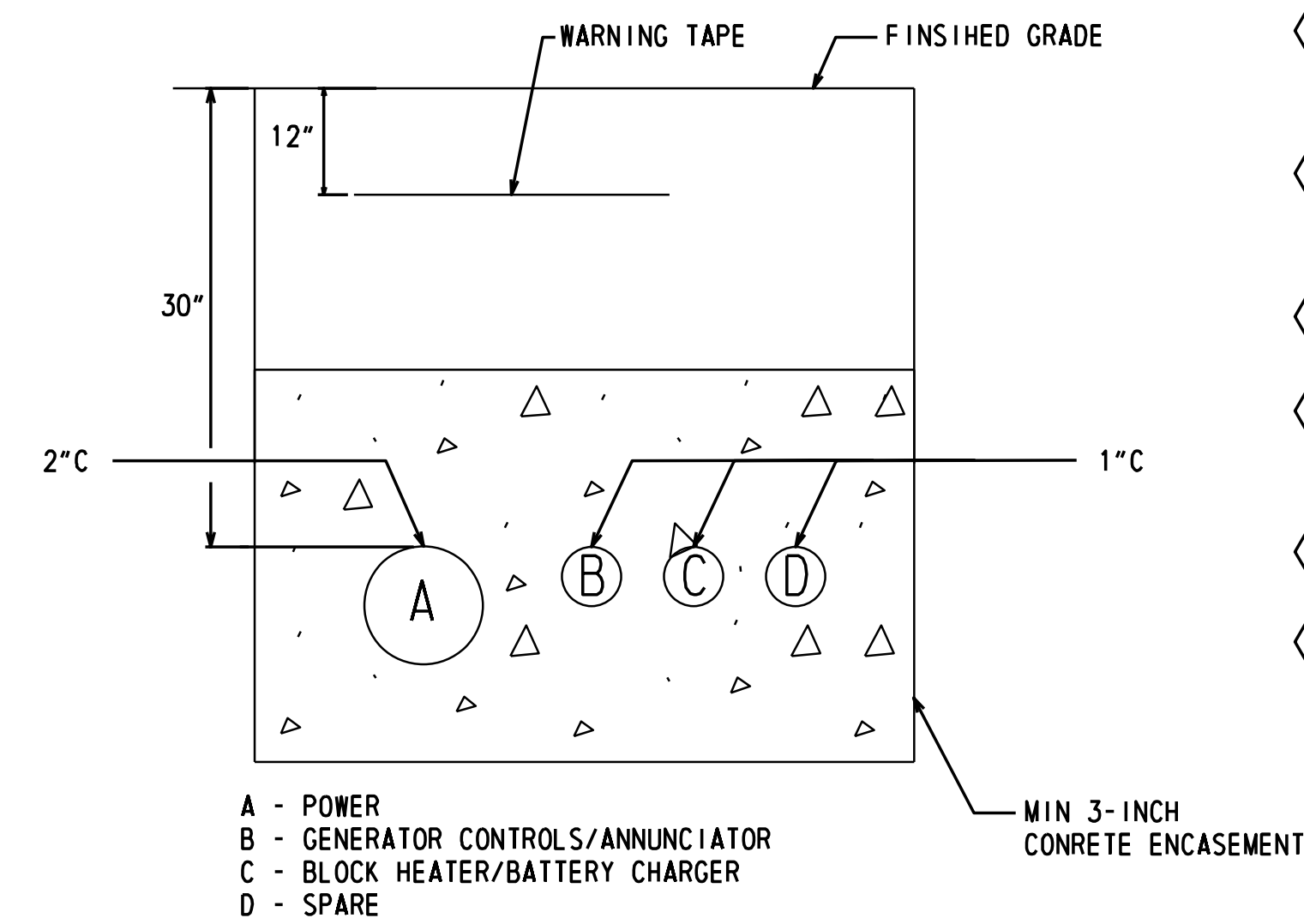
DESIGNATION	DESCRIPTION
(1)	SURGE PROTECTIVE DEVICE
(2)	GROUND BUS
(3)	NOT USED
(4)	BUILDING DISCONNECT
(5)	NOT USED
(6)	AUTOMATIC TRANSFER SWITCH
(7)	PANEL 'DP-1'
(8)	PANEL 'PP-1'
(9)	15KVA TRANSFORMER SECONDARY CIRCUIT BREAKER
(10)	15KVA TRANSFORMER (HUNG)
(11)	30KVA TRANSFORMER (FLOOR)
(12)	PRIMARY DISCONNECT 15KVA TRANSFORMER
(13)	PRIMARY DISCONNECT 30KVA TRANSFORMER
(14)	UPS MAINTENANCE BYPASS SWITCH
(15)	UPS
(16)	PANEL 'UPP-1'
(17)	PANEL 'UPP-2' (FUTURE)
(18)	3'-0" TELE/DATA BACKBOARD
(19)	NOT USED
(20)	NOT USED
(21)	NOT USED
(22)	NOT USED
(23)	NOT USED
(24)	NOT USED
(25)	NOT USED
(26)	GENERATOR ANNUNCIATOR
(27)	GENERATOR ESTOP
(28)	NOT USED



1 ELECTRICAL RAMP HUT POWER PLAN RAMP ' I '
SCALE: 3/8" = 1'-0"



2 DUCTLESS SPLIT SYSTEM WIRING
SCALE: N. T. S.



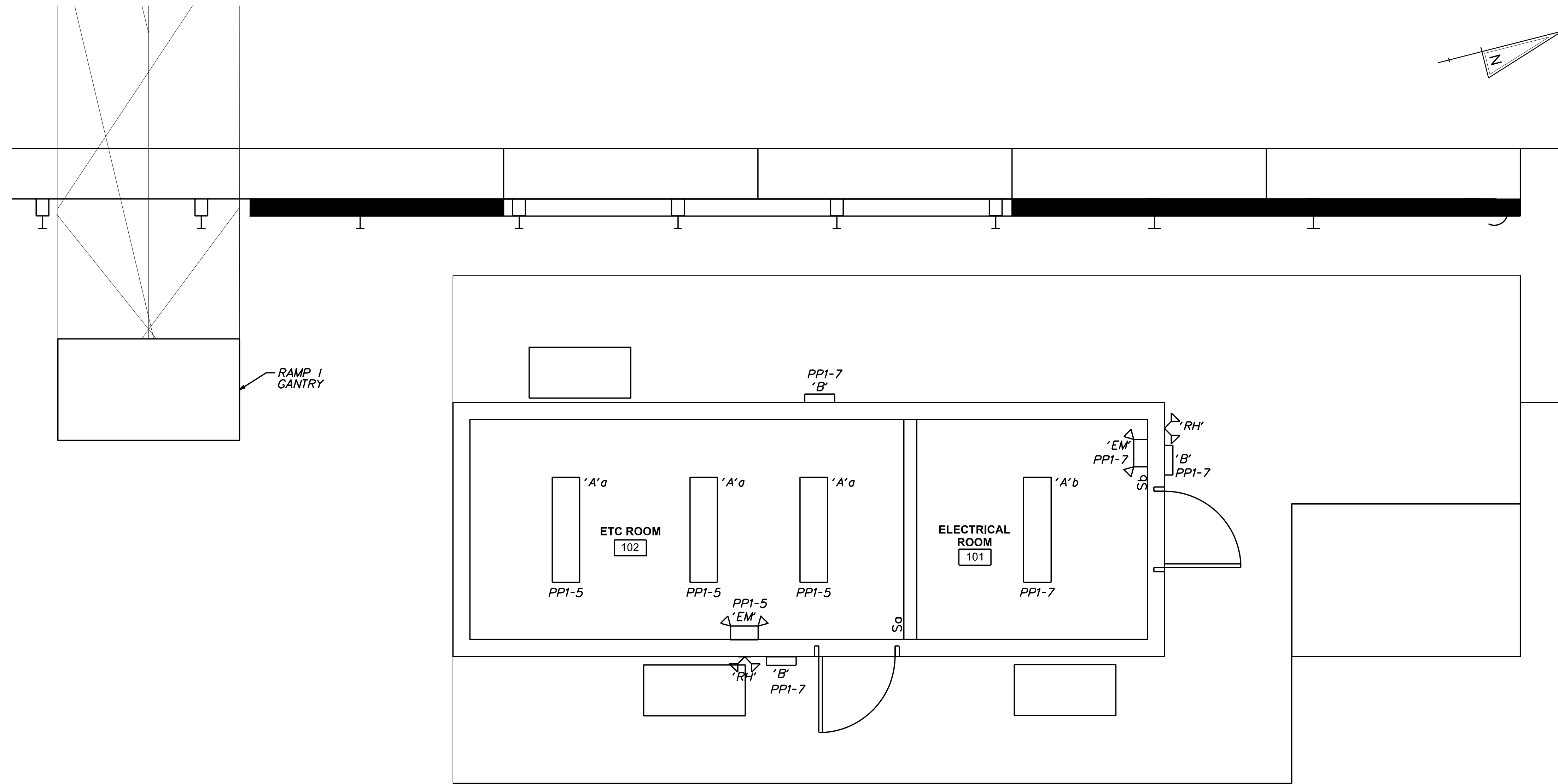
SECTION ' A '

KEY NOTES:

- (1) PROVIDE TWO (2) CONDUITS FOR ITMS BACKBONE AND TWO (2) CONDUITS FOR CONNECTION TO HUT ' I ' AS INDICATED. SEE CIVIL PLANS FOR CONDUIT SIZE.
- (2) SEE DRAWING ETC-11 FOR ETC CONDUIT QUANTITY AND SIZES.
- (3) CONDUIT FOR BUILDING POWER FROM SITE DISTRIBUTION.
- (4) CONDUIT TO GENERATOR.
- (5) POWER CONDUIT TO RAMP ' L ' (DP-2). SEE CIVIL DRAWINGS FOR CONTINUATION.
- (6) NOT USED.
- (7) COPPER GROUND BUS, STORM COPPER OR EQUAL, 4" X 12" X 0.25".

FOR INFORMATION ONLY / WORK BY OTHERS

NOTE:
 1. SEE DRAWING E-15 FOR LUMINAIRE SCHEDULE.



1
 E-09 ELECTRICAL RAMP HUT LIGHTING PLAN RAMP ' I '
 SCALE: 3/8" = 1'-0"

FOR INFORMATION ONLY / WORK BY OTHERS

LAST REVISED: 3/12/2008
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DELAWARE
 DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

US 301
 LEVELS ROAD TO
 SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: RAK
NEW CASTLE	CHECKED BY: JEP

8/05/15

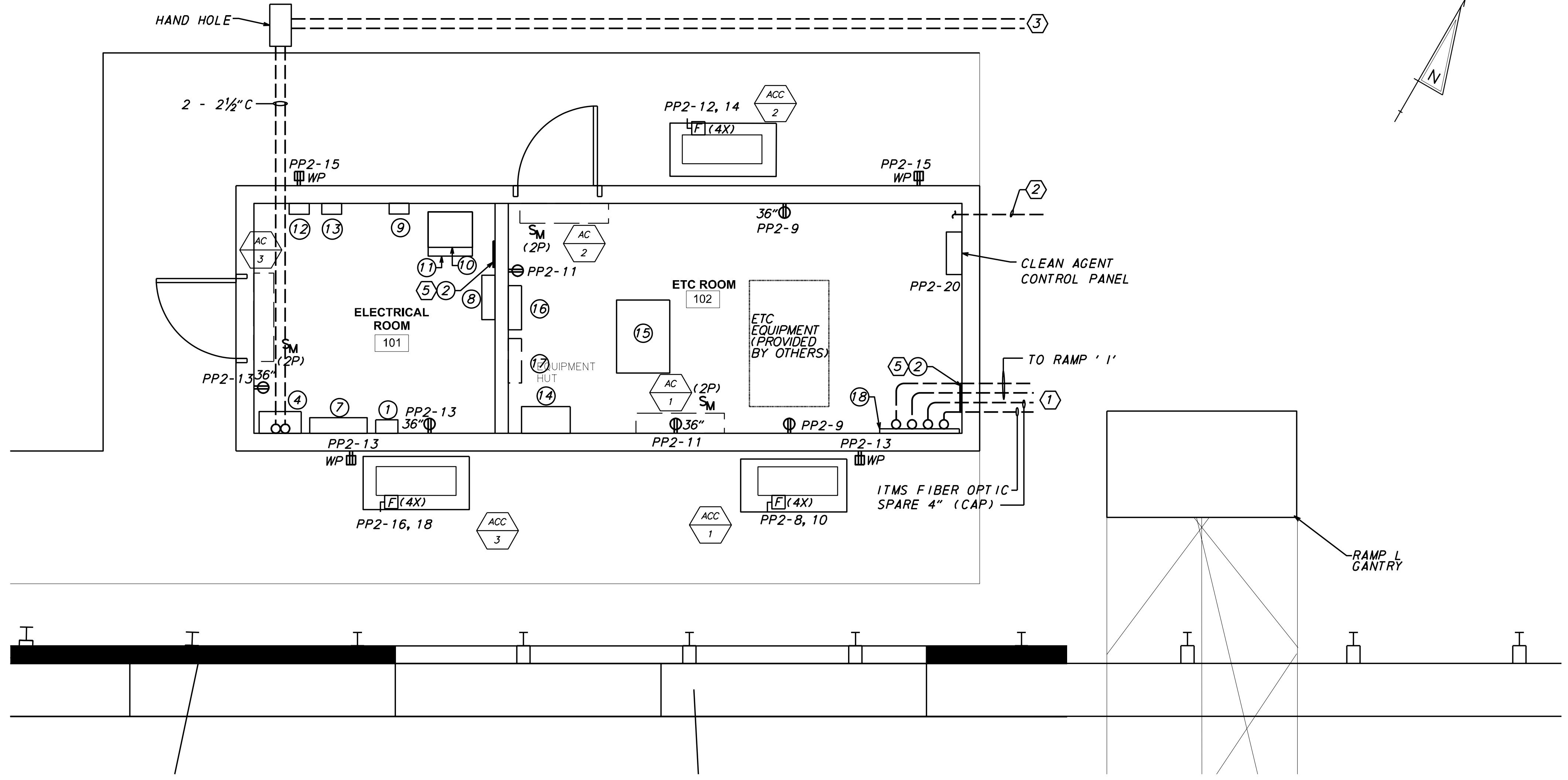
E-09

ELECTRICAL
RAMP HUT
LIGHTING PLAN
RAMP ' I '

SHEET NO.
1218
TOTAL SHTS.
1256

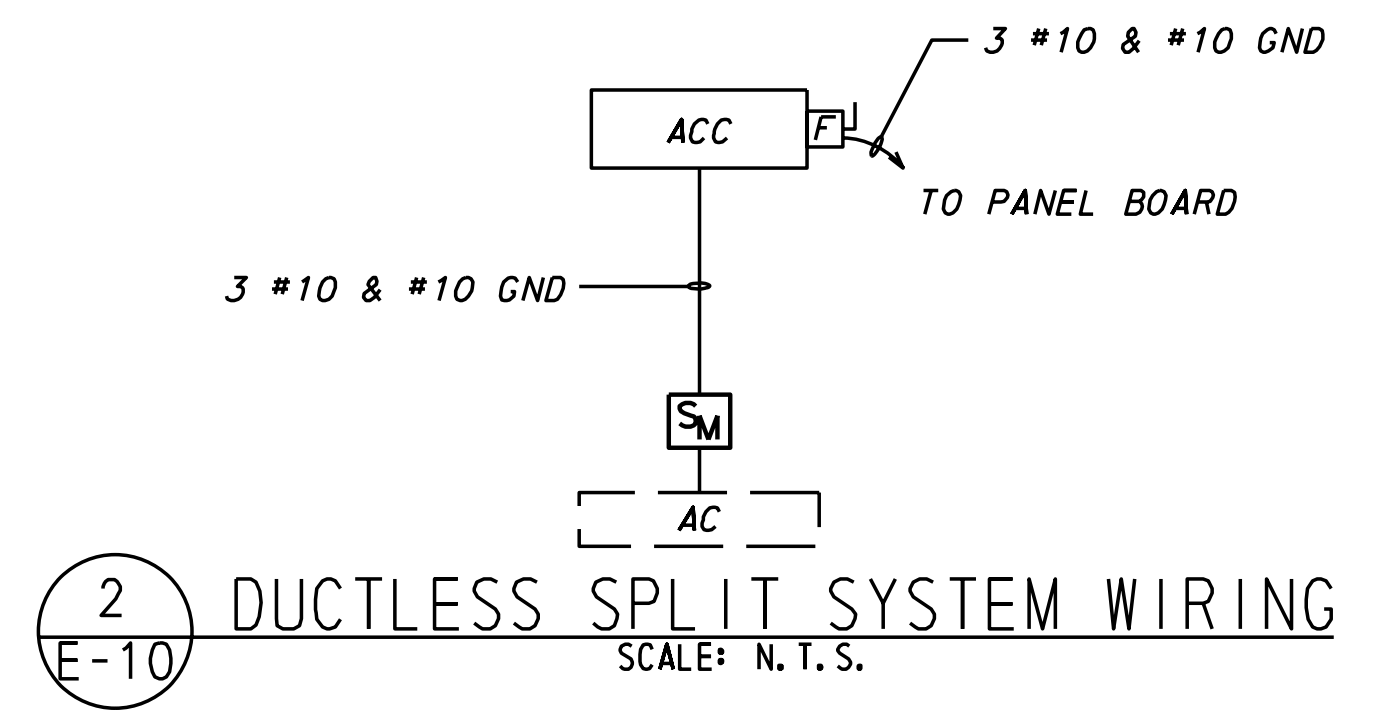
RAMP 'L'

DESIGNATION	DESCRIPTION
(1)	SURGE PROTECTIVE DEVICE
(2)	GROUND BUS
(3)	NOT USED
(4)	BUILDING DISCONNECT
(5)	NOT USED
(6)	NOT USED
(7)	PANEL 'DP-2'
(8)	PANEL 'PP-2'
(9)	15KVA TRANSFORMER SECONDARY CIRCUIT BREAKER
(10)	15KVA TRANSFORMER (HUNG)
(11)	30KVA TRANSFORMER (FLOOR)
(12)	PRIMARY DISCONNECT 15KVA TRANSFORMER
(13)	PRIMARY DISCONNECT 30KVA TRANSFORMER
(14)	UPS MAINTENANCE BYPASS SWITCH
(15)	UPS
(16)	PANEL 'UPP-3'
(17)	PANEL 'UPP-4' (FUTURE)
(18)	3'-0" TELE/DATA BACKBOARD
(19)	NOT USED
(20)	NOT USED
(21)	NOT USED
(22)	NOT USED
(23)	NOT USED
(24)	NOT USED
(25)	NOT USED
(26)	NOT USED
(27)	NOT USED
(28)	NOT USED



1 ELECTRICAL RAMP HUT POWER PLAN RAMP 'L'
E-10 SCALE: 3/8" = 1'-0"

- KEY NOTES:**
- (1) PROVIDE TWO (2) CONDUITS FOR ITMS BACKBONE AND TWO (2) CONDUITS FOR CONNECTION TO HUT '1' AS INDICATED. SEE CIVIL PLANS FOR CONDUIT SIZE.
 - (2) SEE DRAWING ETC-13 FOR ETC CONDUIT QUANTITY AND SIZES.
 - (3) TWO (2) CONDUITS FROM RAMP '1' HUT PANEL DP-1. SEE CIVIL DRAWINGS FOR CONTINUATION.
 - (4) NOT USED
 - (5) COPPER GROUND BUS, STORM COPPER OR EQUAL, 4" X 12" X 0.25".



2 DUCTLESS SPLIT SYSTEM WIRING
E-10 SCALE: N. T. S.

FOR INFORMATION ONLY / WORK BY OTHERS

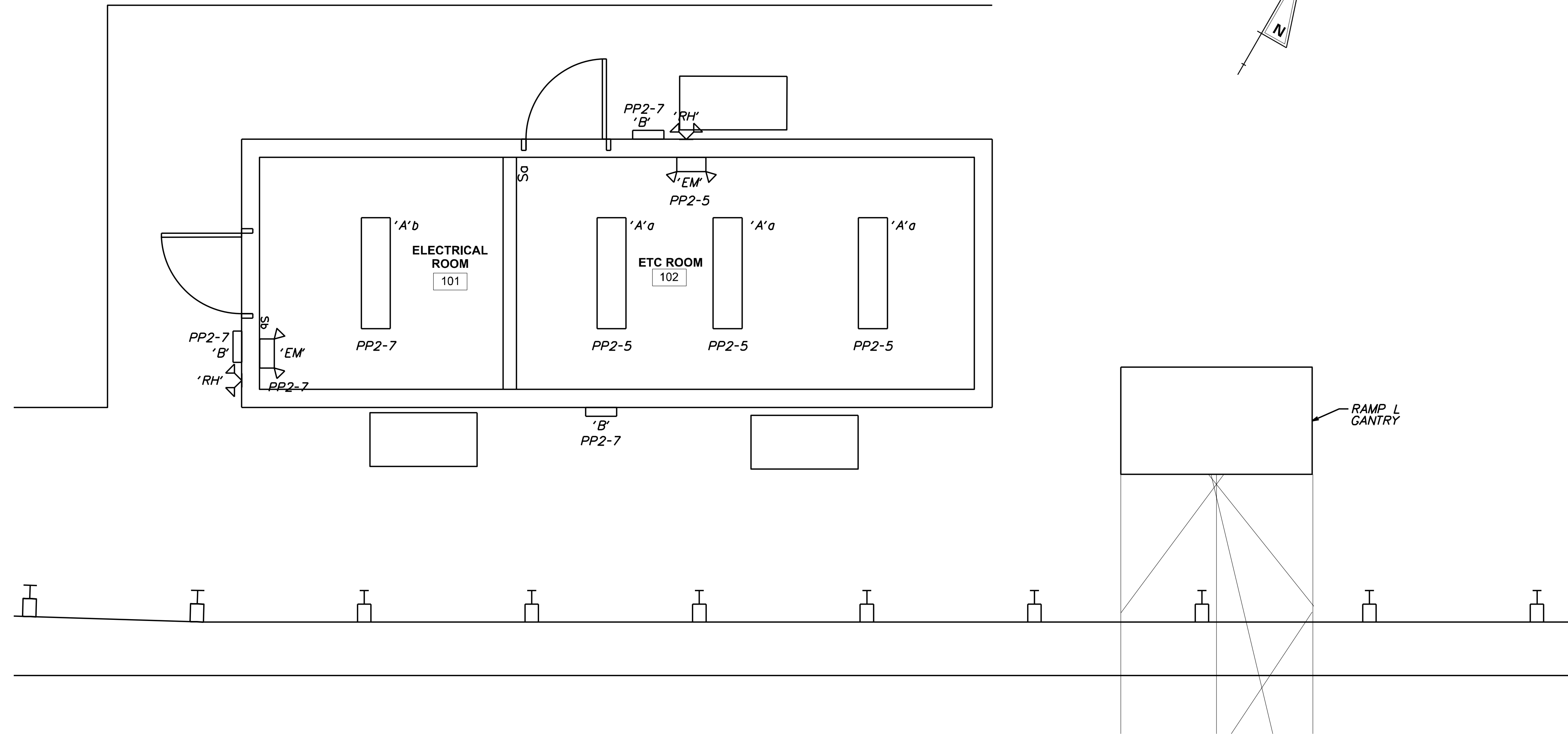
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ADDENDUMS / REVISIONS

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: RAK
	CHECKED BY: JEP

8/05/15	E-10
ELECTRICAL RAMP HUT POWER PLAN RAMP 'L'	SHEET NO. 1219
	TOTAL SHTS. 1256

NOTES:
 1. SEE DRAWING E-15 FOR LUMINAIRE SCHEDULE.



1
 E-11 ELECTRICAL RAMP HUT LIGHTING PLAN RAMP 'L'
 SCALE: 3/8" = 1'-0"

FOR INFORMATION ONLY / WORK BY OTHERS

LAST REVISED: 3/12/2008
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ADDENDUMS / REVISIONS	

US 301
 LEVELS ROAD TO
 SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: RAK
NEW CASTLE	CHECKED BY: JEP

8/05/15	E-11
ELECTRICAL RAMP HUT LIGHTING PLAN RAMP 'L'	

SHEET NO.	1220
TOTAL SHTS.	1256

PANEL DESIGNATION		TYPE: -			LOCATION: ELECTRICAL ROOM - RAMP 'C' OR 'I'						
DP-1		NUMBER OF POLES: 42 MAIN BUS RATING: 225A MAIN RATING: 200A MCB			VOLTAGE: 480/277V, 3Ø, 4W PANEL MOUNTING: SURFACE PANEL ENCLOSURE (NEMA): 1' PANEL MIN. A. I. C. RATING: 65KA						
C.I.R. No.	C.I.R. BKR.	DESCRIPTION	LOAD - KVA			LOAD - KVA			C.I.R. BKR.	C.I.R. No.	
			AØ	BØ	CØ	AØ	BØ	CØ			
1			4.0			7.2			100	2	
3	30	15 KVA XMFR (UPS)		4.0			8.8			4	
5					4.0			7.7		6	
7			3.5							8	
9	50	30 KVA XMFR (PP-1)		6.8					40	10	
11					5.7					12	
13			-							14	
15	30	SPARE								16	
17										18	
19										20	
21										22	
23										24	
25										26	
27										28	
29										30	
31										32	
33										34	
35										36	
37										38	
39										40	
41										42	
TOTAL			7.5	10.8	9.7	7.2	8.8	7.7	TOTAL		
PANEL CONNECTED LOAD			AØ 14.7			BØ 19.6			CØ 17.4		
TOTAL			51.7			TOTAL			DEMAND LOAD: _____		
			SOLID NEUTRAL BUS			EQUIPMENT GROUND BUS					

PANEL DESIGNATION		TYPE: -			LOCATION: ETC ROOM - RAMP 'C' OR 'I'						
UPP-1		NUMBER OF POLES: 42 MAIN BUS RATING: 225A MAIN RATING: 60A MCB			VOLTAGE: 120/208V, 3Ø, 4W PANEL MOUNTING: SURFACE PANEL ENCLOSURE (NEMA): 1' PANEL MIN. A. I. C. RATING: 10,000						
C.I.R. No.	C.I.R. BKR.	DESCRIPTION	LOAD - KVA			LOAD - KVA			C.I.R. BKR.	C.I.R. No.	
			AØ	BØ	CØ	AØ	BØ	CØ			
1										2	
3										4	
5										6	
7										8	
9										10	
11										12	
13										14	
15										16	
17										18	
19										20	
21										22	
23										24	
25										26	
27										28	
29										30	
31										32	
33										34	
35										36	
37										38	
39										40	
41										42	
TOTAL									TOTAL		
PANEL CONNECTED LOAD			AØ _____			BØ _____			CØ _____		
TOTAL			TOTAL			TOTAL			DEMAND LOAD: _____		
			SOLID NEUTRAL BUS			EQUIPMENT GROUND BUS			SURGE PROTECTIVE DEVICE		
			FEED THRU LUGS								

PANEL DESIGNATION		TYPE: -			LOCATION: ELECTRICAL ROOM - RAMP 'C' OR 'I'						
PP-1		NUMBER OF POLES: 42 MAIN BUS RATING: 225A MAIN RATING: 100A MCB			VOLTAGE: 120/208V, 3Ø, 4W PANEL MOUNTING: SURFACE PANEL ENCLOSURE (NEMA): 1' PANEL MIN. A. I. C. RATING: 10,000						
C.I.R. No.	C.I.R. BKR.	DESCRIPTION	LOAD - KVA			LOAD - KVA			C.I.R. BKR.	C.I.R. No.	
			AØ	BØ	CØ	AØ	BØ	CØ			
1	20	SPARE							15	2	
3	20	SPARE								4	
5	20	ETC ROOM LIGHTING			0.3					6	
7	20	ELECT RM/EXTERIOR LTG	0.2			2.0			30	8	
9	20	RECEPT - ETC ROOM		0.4			2.0			10	
11	20	RECEPT - ETC ROOM			0.4				30	12	
13	20	RECEPT - ELEC RM/OUTDOOR	0.8						30	14	
15	20	RECEPT - OUTDOOR		0.4			2.0		30	16	
17	15	SPARE					2.0		20	18	
19	20	SPARE				0.2			20	20	
21	20	SPARE					2.0		30	22	
23	20	SPARE					2.0		20	24	
25	20	SPARE				0.3			20	26	
27	20	SPARE								28	
29	20	SPARE								30	
31	20	SPARE								32	
33	20	SPARE								34	
35	20	SPARE								36	
37	20	SPARE								38	
39	20	SPARE								40	
41	20	LEC			1.0					42	
TOTAL			1.0	0.8	1.7	2.5	6.0	4.0	TOTAL		
PANEL CONNECTED LOAD			AØ 3.5			BØ 6.8			CØ 5.7		
TOTAL			16.0			TOTAL			DEMAND LOAD: _____		
			SOLID NEUTRAL BUS			EQUIPMENT GROUND BUS					

NOTES:
(1) PROVIDE LOCKDOG ON CIRCUIT BREAKER HANDLE.

(1)

PANEL DESIGNATION KEY	
DP-1	UPP-1
PP-1	

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	DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT T200911303	BRIDGE NO.	8/05/15	E-12	ELECTRICAL PANEL SCHEDULES	SHEET NO. 1221
				COUNTY NEW CASTLE	DESIGNED BY: RAK				TOTAL SHTS. 1256
				CHECKED BY: JEP					

LAST REVISED: 3/12/2008
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PANEL DESIGNATION		TYPE: -			LOCATION: ELECTRICAL ROOM - RAMP 'F' OR 'L'			
DP-2		NUMBER OF POLES: 42 MAIN BUS RATING: 225A MAIN RATING: M. L. O.			VOLTAGE: 480/277V, 3Ø, 4W PANEL MOUNTING: SURFACE PANEL ENCLOSURE (NEMA): 1 PANEL MIN. A. I. C. RATING: 65 KA			
CIR. No.	CIR. BKR.	DESCRIPTION	LOAD - KVA			DESCRIPTION	CIR. BKR.	CIR. No.
			AØ	BØ	CØ			
1			4.0			30 KVA XFMR (PP-2)	50	2
3	30	15 KVA XFMR (UPS)		4.0				4
5					4.0			6
7								8
9	40	SPD				SPARE	30	10
11								12
13								14
15								16
17								18
19								20
21								22
23								24
25								26
27								28
29								30
31								32
33								34
35								36
37								38
39								40
41								42
TOTAL			4.0	4.0	4.0	3.2 4.8 3.7	TOTAL	

PANEL CONNECTED LOAD
 AØ 7.2
 BØ 8.8
 CØ 7.7
 23.7 TOTAL DEMAND LOAD: _____

— SOLID NEUTRAL BUS
 — EQUIPMENT GROUND BUS

PANEL DESIGNATION		TYPE: -			LOCATION: ETC ROOM - RAMP 'F' OR 'L'			
UPP-3		NUMBER OF POLES: 42 MAIN BUS RATING: 225A MAIN RATING: 60A MCB			VOLTAGE: 120/208V, 3Ø, 4W PANEL MOUNTING: SURFACE PANEL ENCLOSURE (NEMA): 1 PANEL MIN. A. I. C. RATING: 10,000			
CIR. No.	CIR. BKR.	DESCRIPTION	LOAD - KVA			DESCRIPTION	CIR. BKR.	CIR. No.
			AØ	BØ	CØ			
1								2
3								4
5								6
7								8
9								10
11								12
13								14
15								16
17								18
19								20
21								22
23								24
25								26
27								28
29								30
31								32
33								34
35								36
37								38
39								40
41								42
TOTAL							TOTAL	

PANEL CONNECTED LOAD
 AØ _____
 BØ _____
 CØ _____
 _____ TOTAL DEMAND LOAD: _____

— SOLID NEUTRAL BUS
 — EQUIPMENT GROUND BUS
 — SURGE PROTECTIVE DEVICE
 — FEED THRU LUGS

PANEL DESIGNATION		TYPE: -			LOCATION: ELECTRICAL ROOM - RAMP 'F' OR 'L'			
PP-2		NUMBER OF POLES: 42 MAIN BUS RATING: 225A MAIN RATING: 100A MCB			VOLTAGE: 120/208V, 3Ø, 4W PANEL MOUNTING: SURFACE PANEL ENCLOSURE (NEMA): 1 PANEL MIN. A. I. C. RATING: 10,000			
CIR. No.	CIR. BKR.	DESCRIPTION	LOAD - KVA			DESCRIPTION	CIR. BKR.	CIR. No.
			AØ	BØ	CØ			
1	20	SPARE						2
3	20	SPARE					15	4
5	20	ETC ROOM LIGHTING			0.3			6
7	20	ELEC RM/EXTERIOR LTG	0.2				30	8
9	20	RECEPT - ETC ROOM		0.4				10
11	20	RECEPT - ETC ROOM			0.4		30	12
13	20	RECEPT - ELEC RM/OUTDOOR	0.8					14
15	20	RECEPT - OUTDOOR		0.4			30	16
17	15	SPARE						18
19	20	SPARE					20	20
21	20	SPARE						22
23	20	SPARE						24
25	20	SPARE						26
27	20	SPARE						28
29	20	SPARE						30
31	20	SPARE						32
33	20	SPARE						34
35	20	SPARE						36
37	20	SPARE						38
39	20	SPARE						40
41	20	LEC			1.0			42
TOTAL			1.0	0.8	1.7	2.2 4.0 2.0	TOTAL	

PANEL CONNECTED LOAD
 AØ 3.2
 BØ 4.8
 CØ 3.7
 11.7 TOTAL DEMAND LOAD: _____

— SOLID NEUTRAL BUS
 — EQUIPMENT GROUND BUS

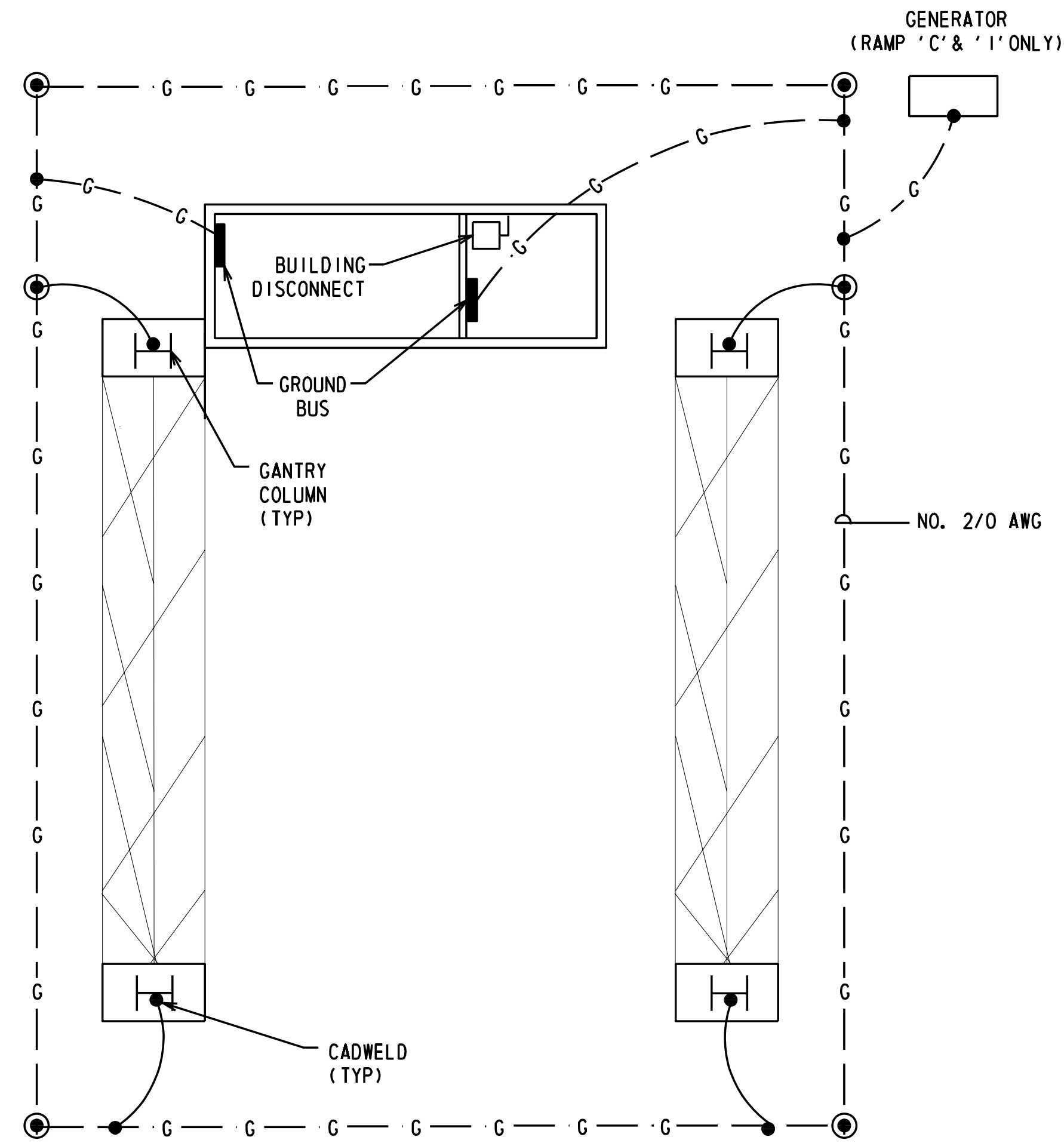
NOTES:
 (1) PROVIDE LOCKDOG ON CIRCUIT BREAKER HANDLE.

PANEL DESIGNATION KEY	
DP-2	UPP-3
PP-2	

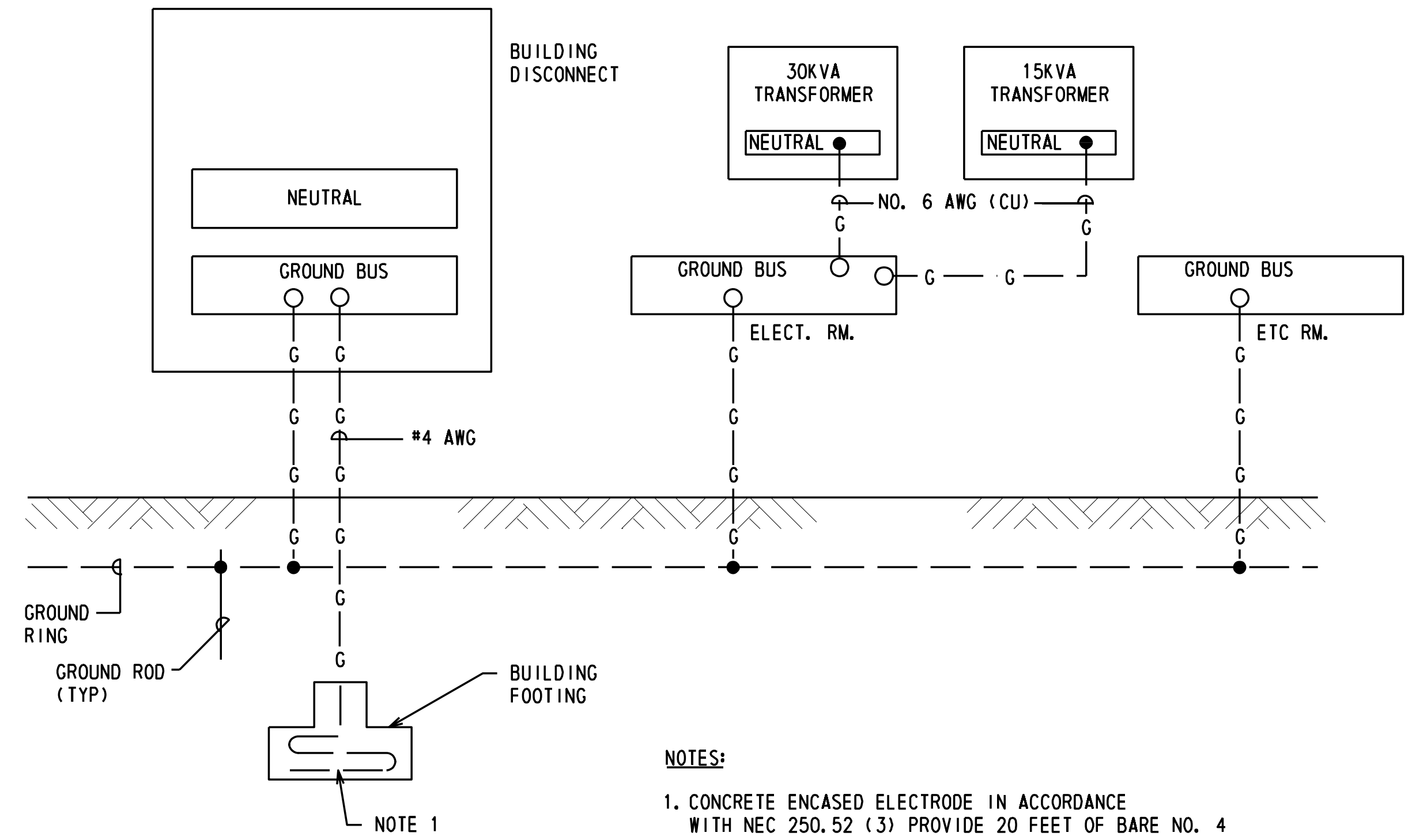
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	DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT T200911303	BRIDGE NO. _____	805/15	E-13	ELECTRICAL PANEL SCHEDULES	SHEET NO. 1222
				COUNTY NEW CASTLE	DESIGNED BY: RAK				TOTAL SHTS. 1256
				CHECKED BY: JEP					

LAST REVISED: 3/12/2008
 ON: 50343 - DELDOT US301\05 WORK\02 CAD\AET\GENERAL\XREFS\SB_A1_AECOM.DGN



1 GROUNDING PLAN
E-14 SCALE: N. T. S.

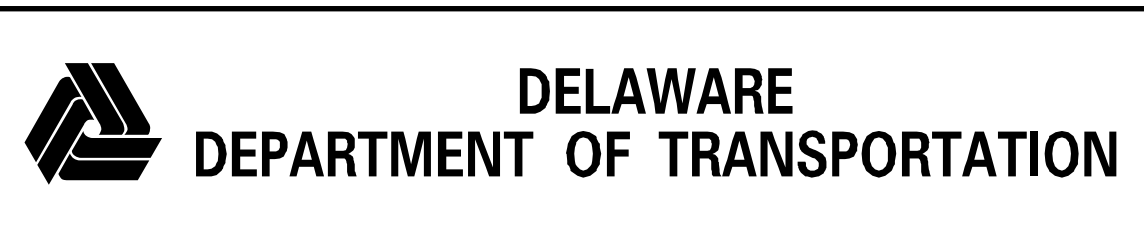


NOTES:
1. CONCRETE ENCASED ELECTRODE IN ACCORDANCE WITH NEC 250.52 (3) PROVIDE 20 FEET OF BARE NO. 4 AWG COPPER, MINIMUM 2-INCH CONCRETE ENCASEMENT AT BOTTOM OF FOOTING.

2 GROUNDING DETAIL
E-14 SCALE: N. T. S.

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ADDENDUMS / REVISIONS	

US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: RAK
NEW CASTLE	CHECKED BY: JEP

8/05/15	E-14
ELECTRICAL GROUNDING DETAILS	
SHEET NO.	1223
TOTAL SHTS.	1256

LUMINAIRE SCHEDULE

FIXTURE TYPE	MANUFACTURER AND CATALOG NO.	VOLT	SYSTEM				LAMP WATTS	MOUNTING				INPUT WATTS	NOTES	DESCRIPTION	REMARKS
			INCAND.	FLUOR.	HID	NO.		SURF.	RECESS	WALL	OTHER				
'A'	LITHONIA 'AFST' SERIES	120/277		●		3	32W T8	●				87	①	HEAVY DUTY INDUSTRIAL, SOLID REFLECTOR	ELECTRONIC BALLAST, INSTANT START < 10% THD, WITH BALLAST DISCONNECT
'B'	LITHONIA 'TWF1' SERIES	120		●		2	26W DTT					49	①	EXTERIOR ARCHITECTURAL WALL PACK, POLYCARBONATE LENS, DIE-CAST METAL BEZEL, DARK BRONZE FINISH, UL LISTED FOR WET LOCATIONS	BOTTOM OF FIXTURE MOUNTED AT 7'-0" AFG PROVIDE WITH INTEGRAL PHOTO ELECTRIC CELL
'EM'	LITHONIA 'ELM' SERIES	120/277	●			2	9W KRYPTON			●		8	①	THERMOPLASTIC EMERGENCY UNIT, DUAL HEADS, HIGH CAPACITY 54W OUTPUT	-
'RH'	LITHONIA 'ELA' SERIES	120/277	●			2	9W KRYPTON			●		-	①	THERMOPLASTIC EMERGENCY REMOTE TWIN HEAD, 6 VOLT KRYPTON LAMPS.	-

NOTES:
① ALL LAMPS TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.

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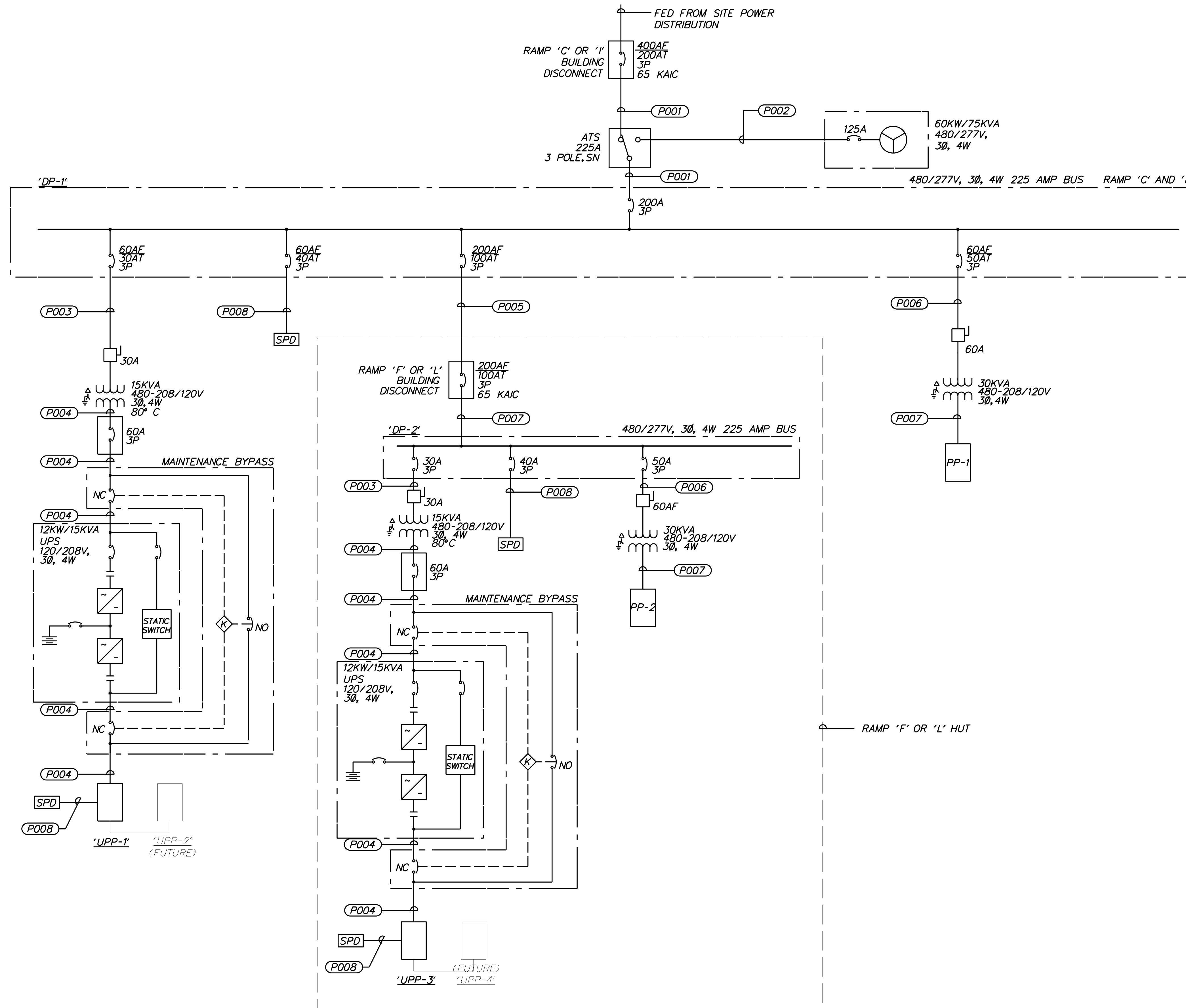
ADDENDUMS / REVISIONS

US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: RAK
NEW CASTLE	CHECKED BY: JEP

805/15	E-15
ELECTRICAL LUMINAIRE SCHEDULE	
SHEET NO.	1224
TOTAL SHTS.	1256

FEEDER SCHEDULE		
CABLE	SIZE	WIRE
P001	2"	4-1/C NO. 3/0 AWG & NO. 4 GND
P002	DUCT BANK	4-1/C NO. 1/0 AWG & NO. 4 GND
P003	3/4"	3-1/C NO. 10 AWG & NO. 10 GND
P004	1-1/2"	4-1/C NO. 4 AWG & NO. 8 GND
P005	DUCT BANK	
P006	1"	3-1/C NO. 6 AWG & NO. 10 GND
P007	1-1/2"	4-1/C NO. 1 AWG & NO. 6 GND
P008	1"	4-1/C NO. 6 AWG & NO. 6 GND



1
E-16 MAIN ONE LINE DIAGRAM
SCALE: N. T. S.

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ADDENDUMS / REVISIONS

US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT
T200911303
COUNTY
NEW CASTLE

BRIDGE NO.
DESIGNED BY: RAK
CHECKED BY: JEP

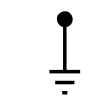





8/05/15

E-16

ELECTRICAL
MAIN ONE LINE DIAGRAM

SHEET NO.
1225
TOTAL SHTS.
1256

LEGEND:

	GROUND CONNECTION
	CONDUIT - EXPOSED
	CONDUIT - EMBEDDED
	CONDUIT - TURNED DOWN
	CONDUIT - TURNED UP
	POWER OR CONTROL PULLBOX

GENERAL NOTES:


- DRAWINGS ARE DIAGRAMMATIC IN NATURE, CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION. CONTRACTORS SHALL COORDINATE ALL WORK WITH OTHER DIVISION TRADES. LOCATE FIXTURES, DEVICES, ETC. IN ORDER TO AVOID INTERFERENCE'S.
- ARCHITECTURAL FEATURES SHOWN ON THESE DRAWINGS ARE FOR BACKGROUND INFORMATION ONLY. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ACTUAL BUILDING CONSTRUCTION OF WALLS AND CURBS. REFER TO MECHANICAL DRAWINGS FOR ACTUAL LOCATION OF EQUIPMENT.
- CONTRACTORS SHALL IN A WORKMANLIKE MANNER, PROVIDE A COMPLETE OPERABLE SYSTEM. OUTLINE DESCRIPTION AND DIAGRAMMATIC REPRESENTATION OF SYSTEM OPERATION AND EQUIPMENT DOES NOT LIMIT CONTRACTOR LIABILITY FOR INSTALLATION OF A COMPLETE AND OPERABLE SYSTEM.
- ALL WORK SHALL BE PERFORMED AS REQUIRED BY APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION, AND ALL GOVERNING LOCAL CODES, LAWS/OR REGULATIONS.
- ALL CONDUIT PENETRATIONS UP THROUGH GRADE AND THROUGH FOUNDATIONS SHALL BE PVC-COATED GALVANIZED RIGID STEEL CONDUIT (PCRM). ALL OTHER EXPOSED OUTDOOR CONDUITS SHALL BE GALVANIZED STEEL CONDUIT. MINIMUM SIZED DIAMETER SHALL BE 1" UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL UTILIZE THE CONDUIT MANUFACTURER'S RECOMMENDED SUPPORTS FOR ALL CONDUIT ROUTINGS.

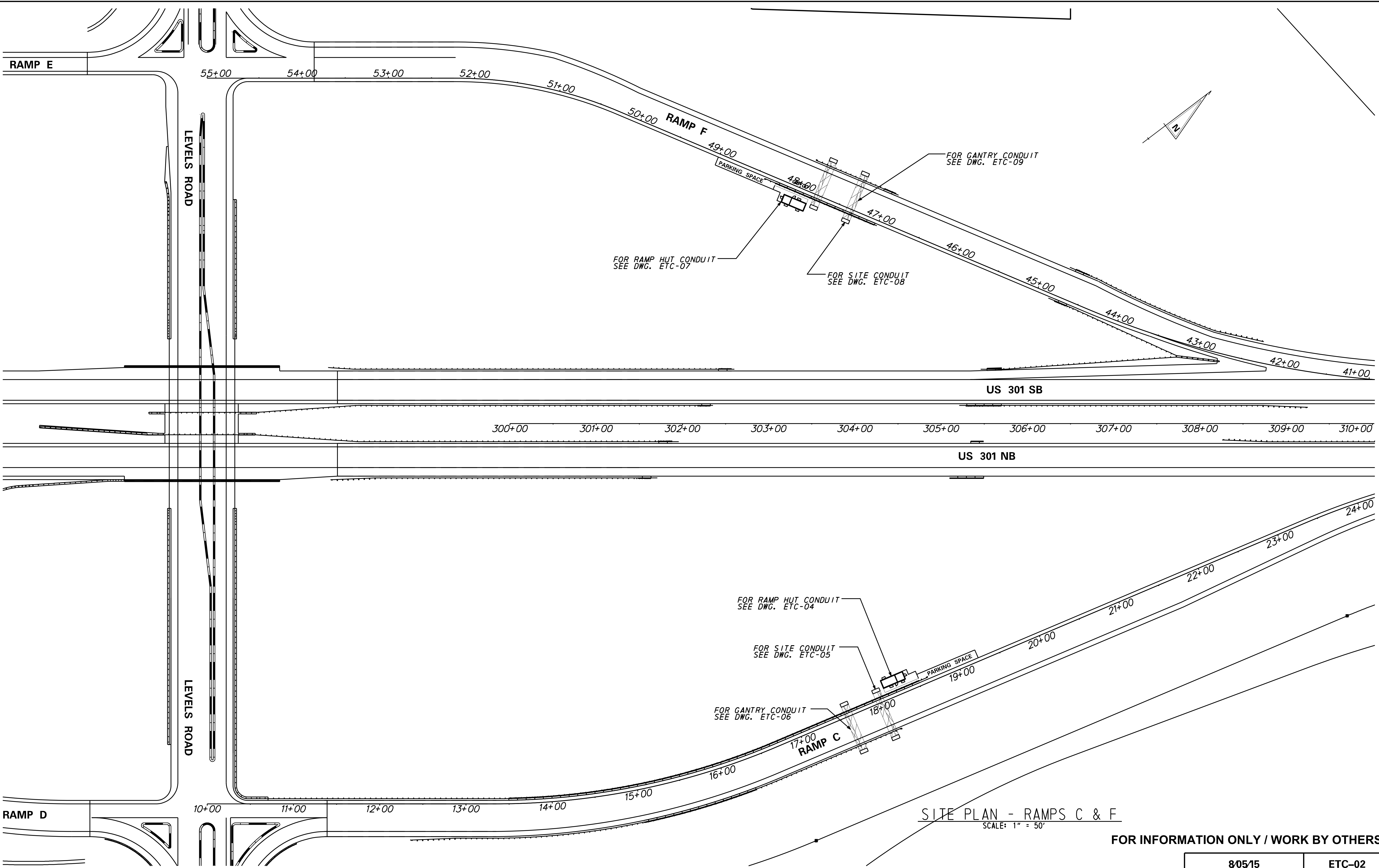
ABBREVIATIONS:

A	AMPERE	N.I.C.	NOT IN CONTRACT
A.C.	ALTERNATING CURRENT	N.O.	NORMALLY OPEN
A/C	AIR CONDITIONING	No.	NUMBER
ADJ.	ADJACENT	N.T.S.	NOT TO SCALE
AE	AUTOMATIC ENTRY	O.C.	ON CENTER
A.F.F.	ABOVE FINISHED FLOOR	OH	OVERHEAD
A.F.G.	ABOVE FINISHED GRADE	PNL.	PANEL
A.I.C.	AMPERE INTERRUPTING CAPACITY	PWR	POWER CABLE/CONDUIT
A.T.S.	AUTOMATIC TRANSFER SWITCH	PVC	POLYVINYL CHLORIDE
AUTO	AUTOMATIC	PCRM	PVC-COATED RIGID METAL CONDUIT
AVI	AUTOMATIC VEHICLE IDENTIFICATION	R.G.S.	RIGID GALVANIZED STEEL
AWG	AMERICAN WIRE GAUGE	SB	SOUTHBOUND
BCC	BOOTH CONTROL CENTER	SCI	SIGN CONTROLLER INTERFACE
BLDG.	BUILDING	SW	SWITCH
C	CONDUIT	T.B.	TOLL BOOTH
CB	CIRCUIT BREAKER	T.S.	TRAFFIC SIGNAL
C.P.	CONTROL PANEL	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
CNTL	CONTROL CABLE/CONDUIT	TYP.	TYPICAL
CONTR	CONTRACTOR	U.L.	UNDERWRITERS LABORATORIES
COTB.	CANOPY OVERRIDE TERMINATION BOX	U.N.O.	UNLESS NOTED OTHERWISE
CNTOR	CONTACTOR	UPS	UNINTERRUPTED POWER SUPPLY
D.C.	DIRECT CURRENT	V	VOLT
DE	DEDICATED ENTRY	VES	VEHICLE ENFORCEMENT SYSTEM
DIA.	DIAMETER	W.P.	WEATHERPROOF
D.S.	DISCONNECT SWITCH	X	EXIT
E.C.	ELECTRICAL CONTRACTOR	PED. ACC.	PEDESTRIAN ACCESSWAY
EM.	EMERGENCY		
EMB.	EMBEDDED		
E.P.	EXPLOSION PROOF		
ETC	ELECTRONIC TOLL COLLECTOR		
EXH.	EXHAUST		
F.A.	FIRE ALARM		
FT.	FOOT, FEET		
FU.	FUSE		
G.C.	GENERAL CONTRACTOR		
G.F.I.	GROUND FAULT INTERRUPTER		
GRD.	GROUND		
H.I.D.	HIGH INTENSITY DISCHARGE		
HP	HORSEPOWER		
H.P.S.	HIGH PRESSURE SODIUM		
HVAC	HEAT-VENT-AIR CONDITIONING		
HTR.	HEATER		
I.G.	ISOLATED GROUND		
I.M.C.	INTERMEDIATE METAL CONDUIT		
IN.	INCH		
JB	JB		
KW.	KILOWATT		
LTC.	LIGHTING		
MIN.	MINIMUM		
M.H.	MOUNTING HEIGHT		
M.L.O.	MAIN LUG ONLY		
MTD.	MOUNTED		
MCB	MAIN CIRCUIT BREAKER		
M.C.S.	MOLDED CASE SWITCH		
NB	NORTH BOUND		
N.C.	NORMALLY CLOSED		
NF	NONFUSIBLE		

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 DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	8/05/15	ETC-01	SHEET NO.
				T200911303	DESIGNED BY: JTB			1226
				COUNTY	CHECKED BY: RAK			TOTAL SHTS.
				NEW CASTLE				1256
ETC LEGEND, SYMBOLS & ABBREVIATIONS								



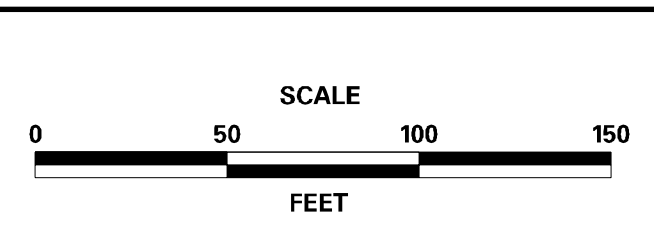
SITE PLAN - RAMPS C & F
SCALE: 1" = 50'

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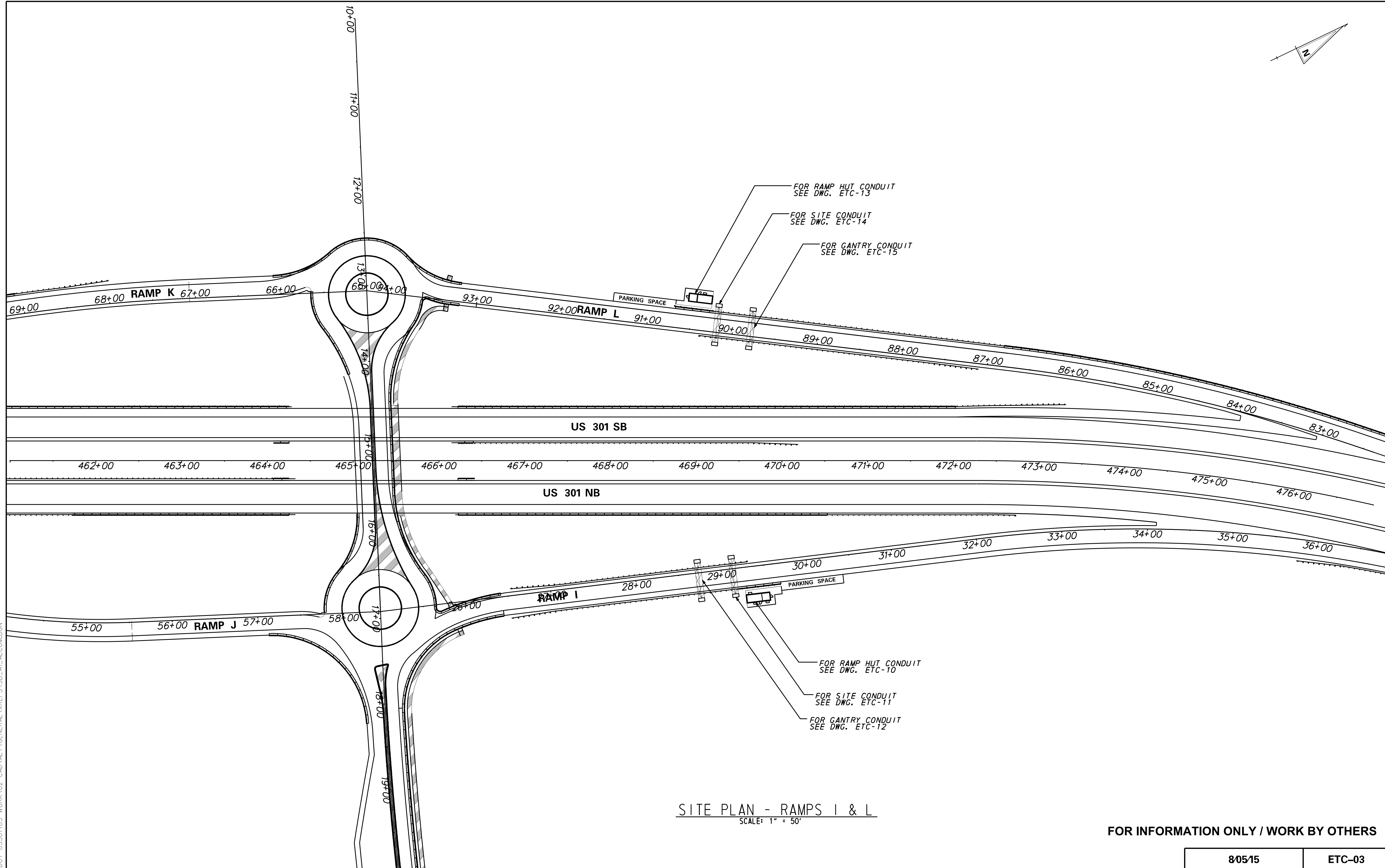
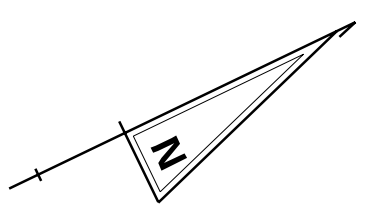
ADDENDUMS / REVISIONS



US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JTB
	CHECKED BY: RAK

8/05/15	ETC-02
ETC OVERALL SITE PLAN 1 OF 2	
SHEET NO. 1227	TOTAL SHTS. 1256



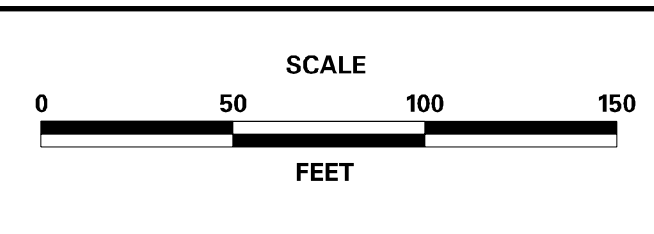
SITE PLAN - RAMPS I & L
SCALE: 1" = 50'

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LAST REVISED: 3/12/2008
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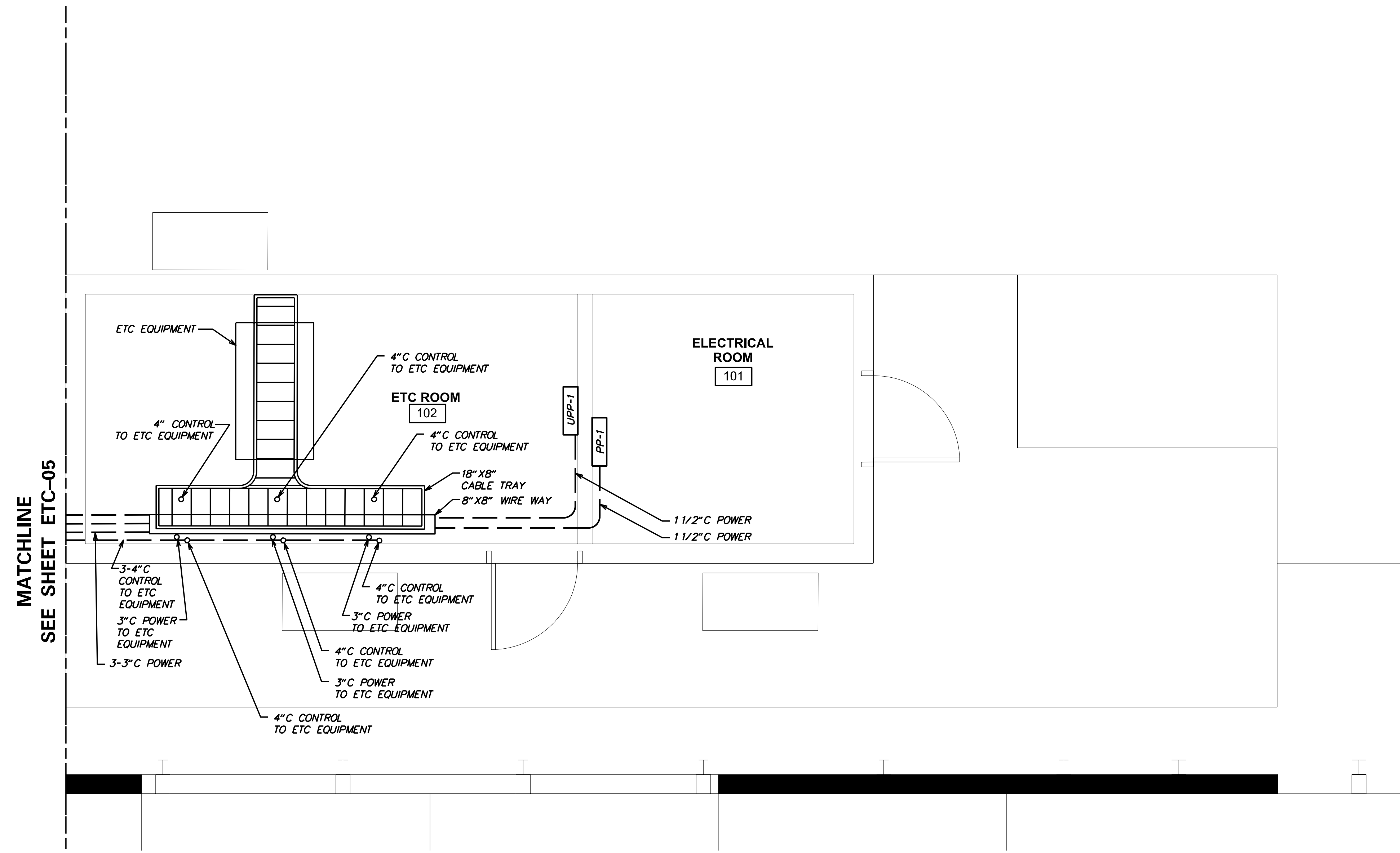
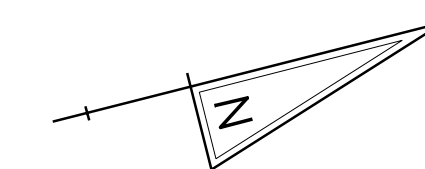
ADDENDUMS / REVISIONS



US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JTB
NEW CASTLE	CHECKED BY: RAK

805/15	ETC-03
ETC OVERALL SITE PLAN 2 OF 2	
SHEET NO.	1228
TOTAL SHTS.	1256



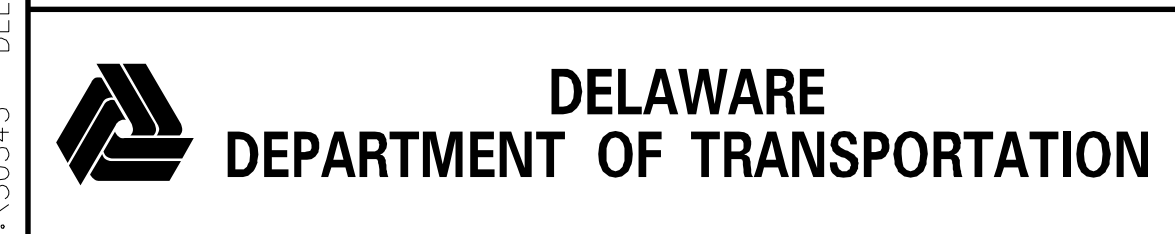
MATCHLINE
SEE SHEET ETC-05

ETC RAMP HUT CONDUIT PLAN AET RAMP 'C'
SCALE: 1/2" = 1'-0"

- NOTES:**
- CONTRACTOR SHALL COORDINATE WITH ETC CONTRACTOR FOR EXACT CABINET LOCATIONS AND ADJUST FINAL CONDUIT ROUTING AS NECESSARY.
 - ALL ETC EQUIPMENT TO BE HOUSED WITHIN "ETC ROOM".

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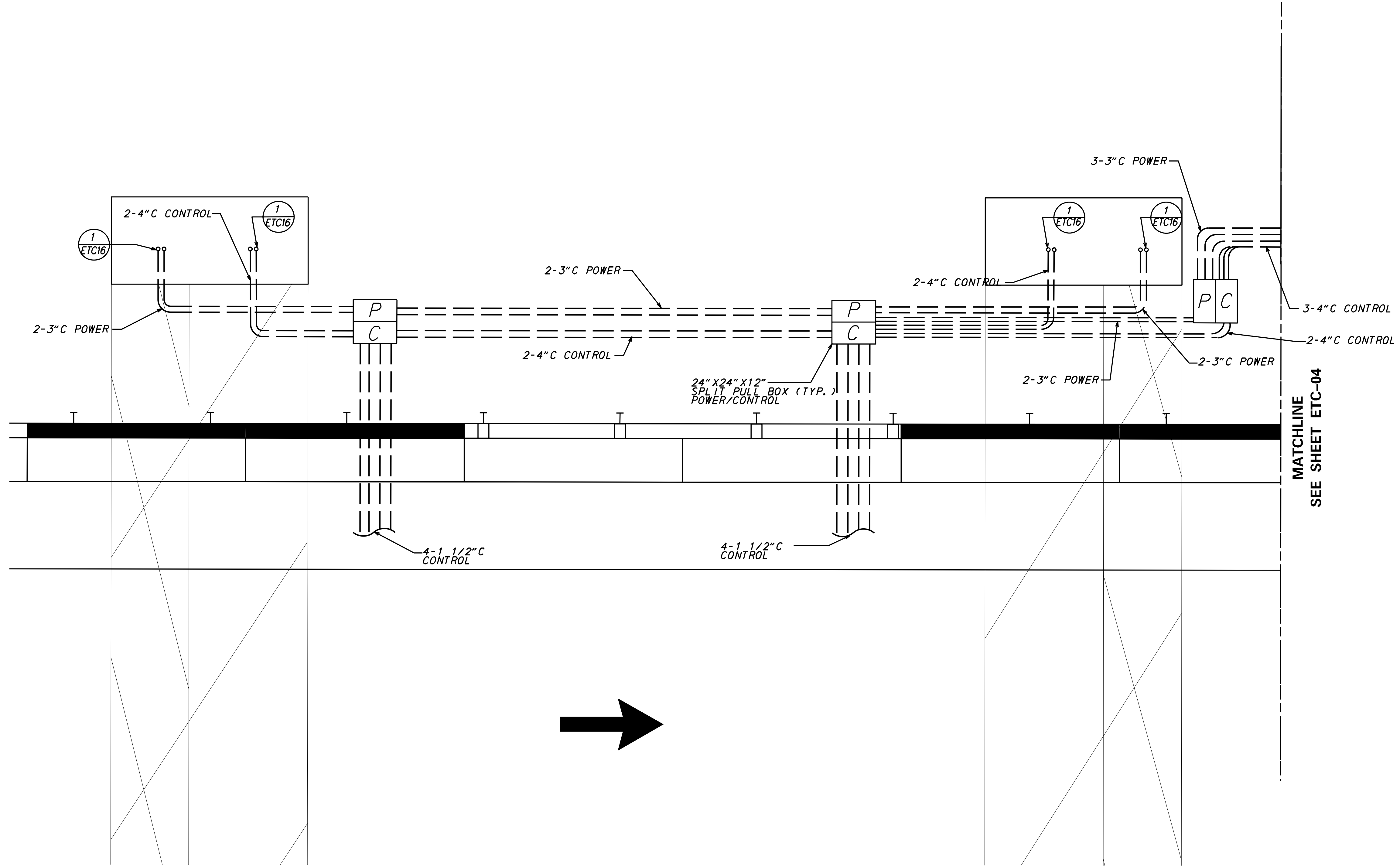
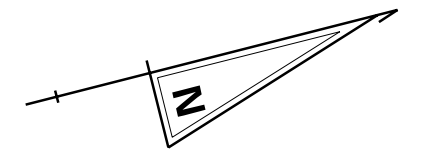


ADDENDUMS / REVISIONS	

US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JTB
	CHECKED BY: RAK

8/05/15	ETC-04
ETC RAMP HUT CONDUIT PLAN AET RAMP 'C'	
SHEET NO. 1229	TOTAL SHTS. 1256



ETC SITE CONDUIT PLAN AET RAMP 'C'
SCALE: 3/8" = 1'-0"

NOTES:
 1. CONTRACTOR SHALL COORDINATE WITH ETC CONTRACTOR FOR EXACT EQUIPMENT LOCATIONS AND ADJUST FINAL CONDUIT ROUTING AS NECESSARY.
 2. SEE DWG. ETC-16 FOR GANTRY COLUMN CONDUIT DETAILS.
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LAST REVISED: 3/12/2008
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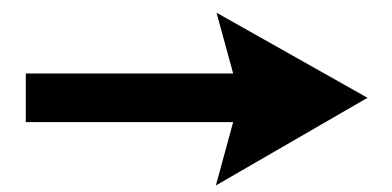
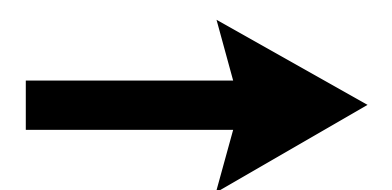
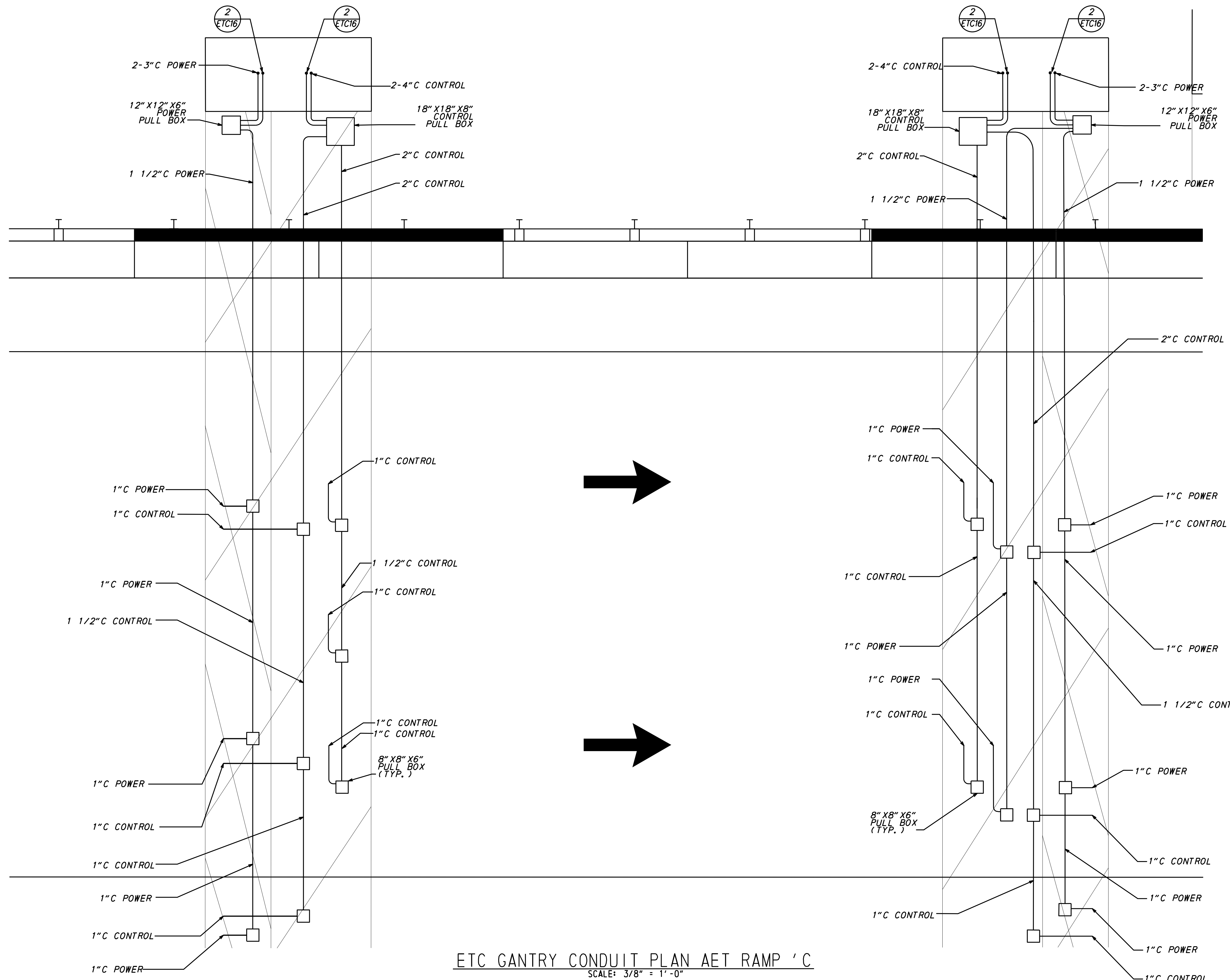
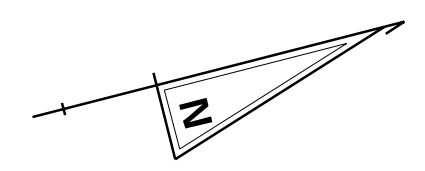


ADDENDUMS / REVISIONS	

**US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JTB
	CHECKED BY: RAK

8/05/15	ETC-05
ETC SITE CONDUIT PLAN AET RAMP 'C'	
SHEET NO. 1230	TOTAL SHTS. 1256

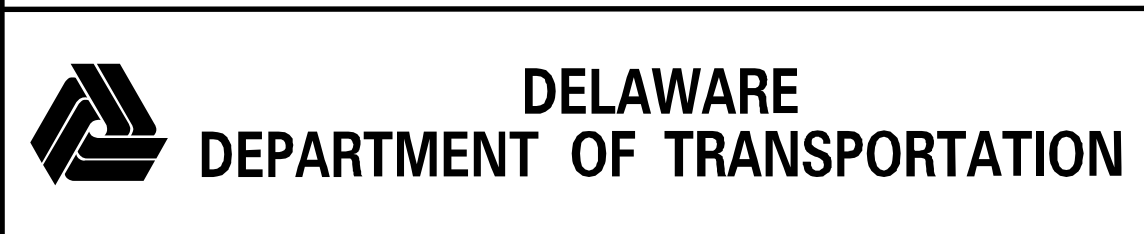


NOTES:
 1. CONTRACTOR SHALL COORDINATE WITH ETC CONTRACTOR FOR EXACT EQUIPMENT LOCATIONS AND ADJUST FINAL CONDUIT ROUTING AS NECESSARY.
 2. SEE DWG. ETC-16 FOR GANTRY COLUMN CONDUIT DETAILS.

ETC GANTRY CONDUIT PLAN AET RAMP 'C
 SCALE: 3/8" = 1'-0"

FOR INFORMATION ONLY / WORK BY OTHERS

LAST REVISED: 3/12/2008
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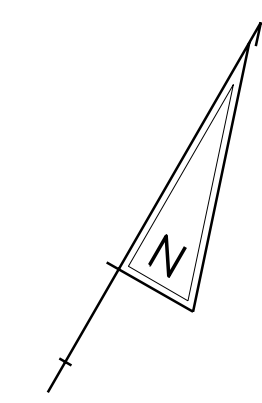
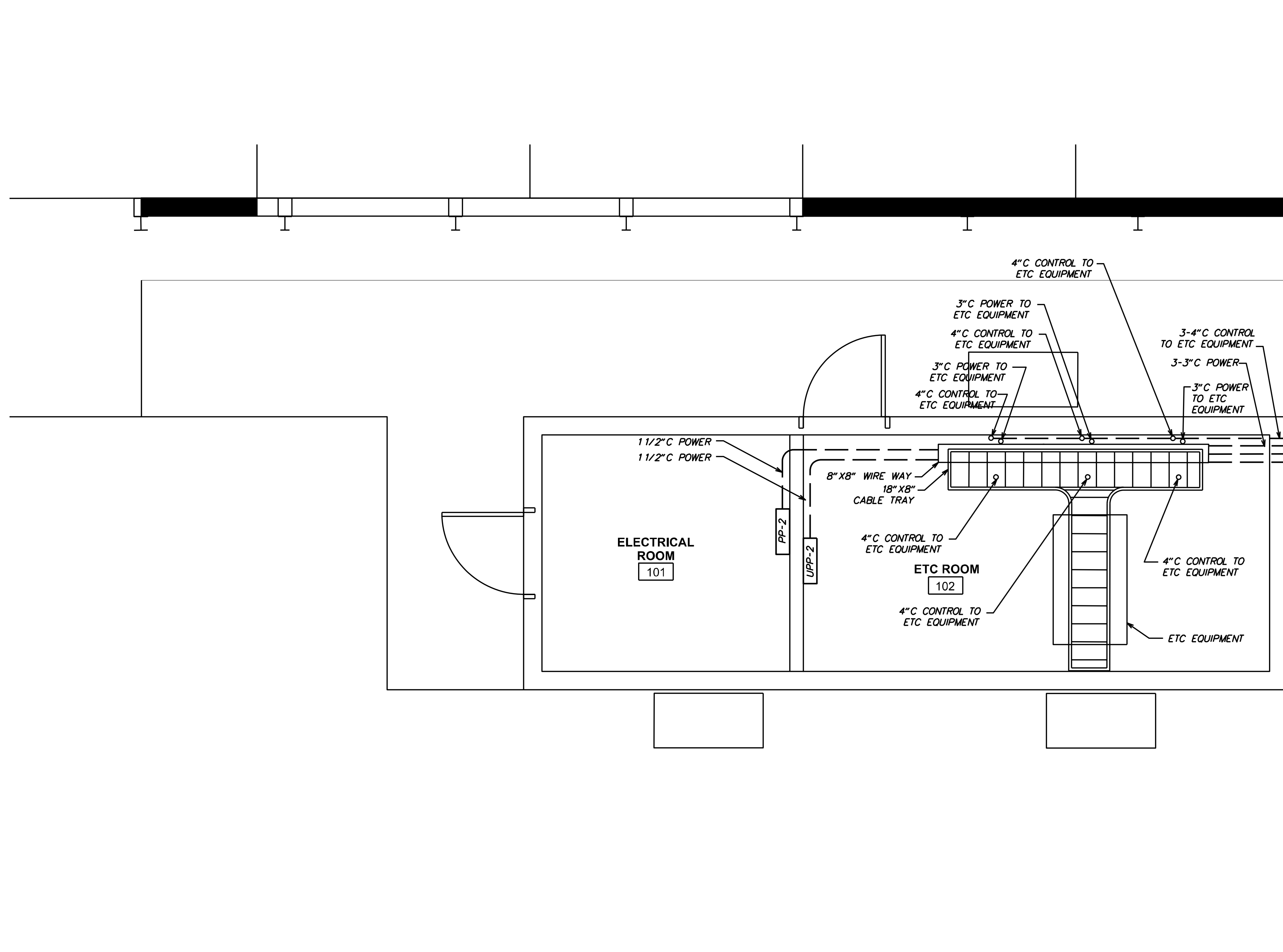
ADDENDUMS / REVISIONS

US 301
 LEVELS ROAD TO
 SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	DESIGNED BY: JTB
COUNTY	CHECKED BY: RAK
NEW CASTLE	

805/15	ETC-06
ETC GANTRY CONDUIT PLAN RAMP AET 'C	

SHEET NO.	12.31
TOTAL SHTS.	12.56



MATCHLINE
SEE SHEET ETC-08

ETC RAMP HUT CONDUIT PLAN AET RAMP 'F'
SCALE: 1/2" = 1'-0"

- NOTES:**
- CONTRACTOR SHALL COORDINATE WITH ETC CONTRACTOR FOR EXACT CABINET LOCATIONS AND ADJUST FINAL CONDUIT ROUTING AS NECESSARY.
 - ALL ETC EQUIPMENT TO BE HOUSED WITHIN "ETC ROOM".

FOR INFORMATION ONLY / WORK BY OTHERS

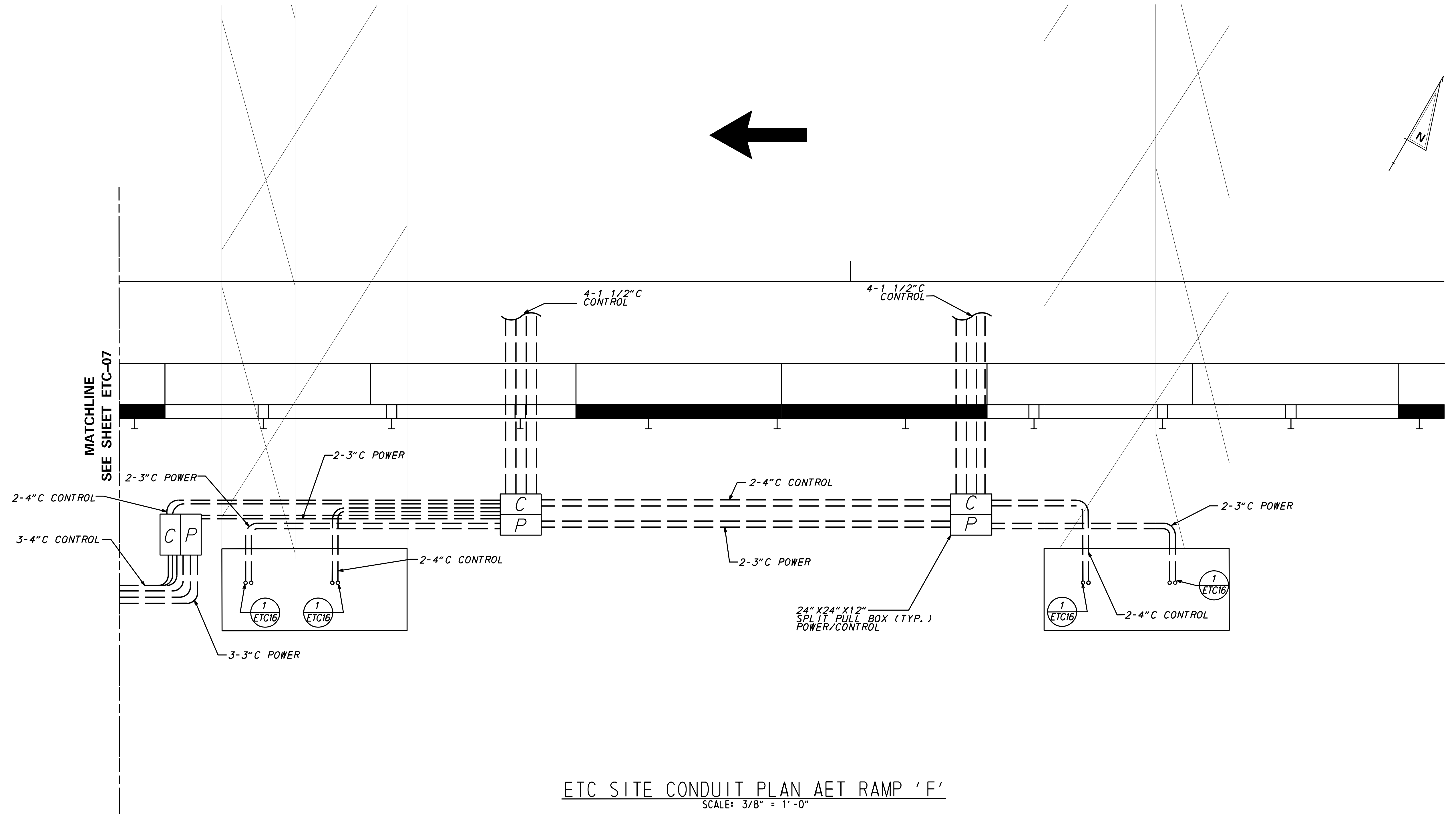
8/05/15 ETC-07

ADDENDUMS / REVISIONS	

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JTB
NEW CASTLE	CHECKED BY: RAK

ETC RAMP HUT CONDUIT PLAN AET RAMP 'F'	SHEET NO. 1232
	TOTAL SHTS. 1256

LAST REVISED: 3/12/2008
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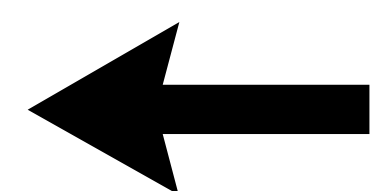
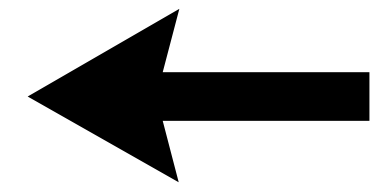
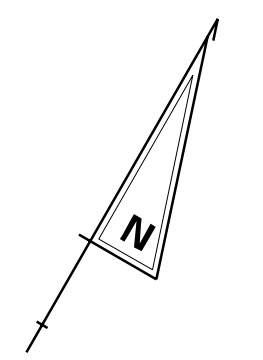
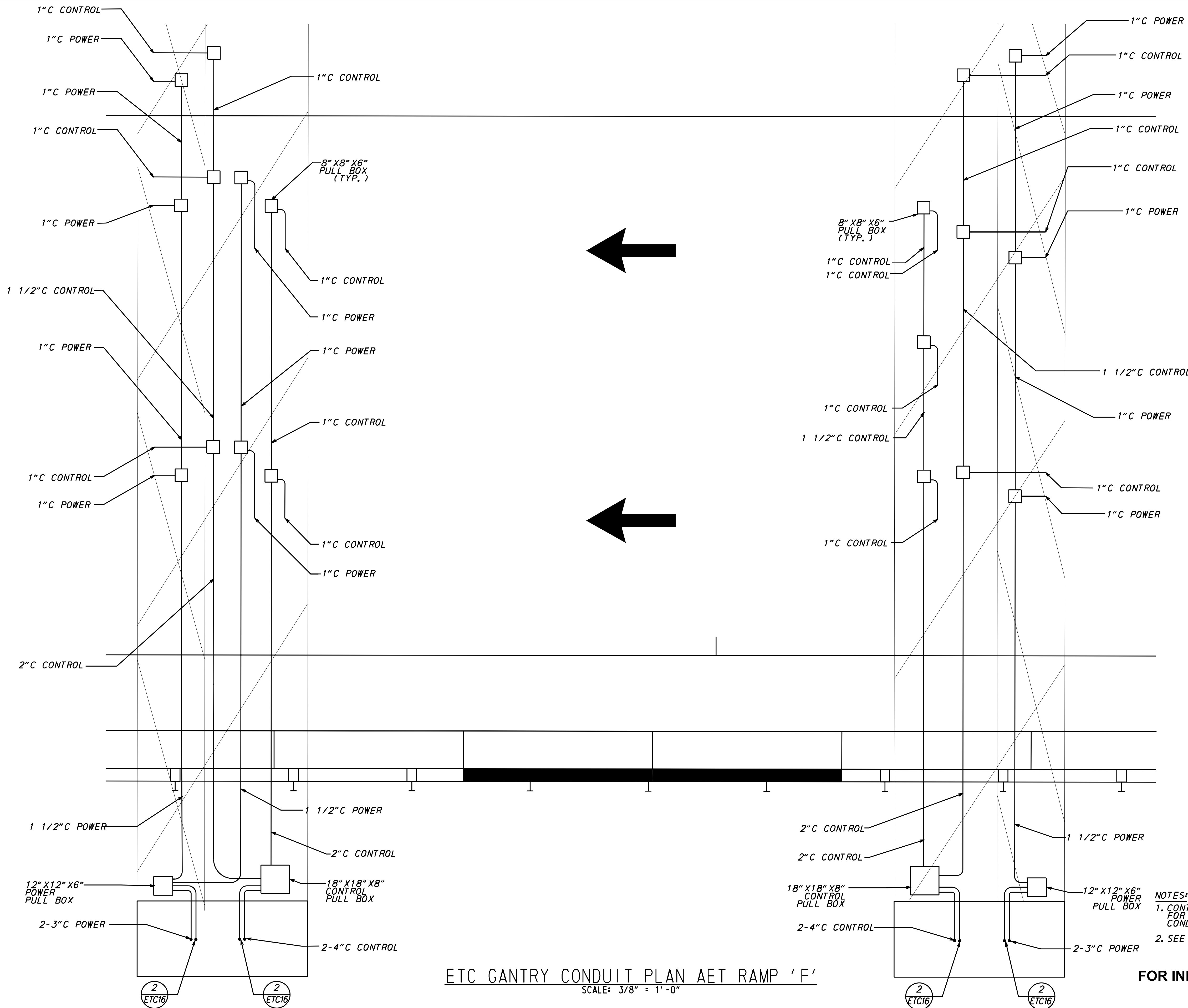


ETC SITE CONDUIT PLAN AET RAMP 'F'
SCALE: 3/8" = 1'-0"

- NOTES:**
- CONTRACTOR SHALL COORDINATE WITH ETC CONTRACTOR FOR EXACT EQUIPMENT LOCATIONS AND ADJUST FINAL CONDUIT ROUTING AS NECESSARY.
 - SEE DWG. ETC-16 FOR GANTRY COLUMN CONDUIT DETAILS.

LAST REVISED: 3/12/2008
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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS		<p>US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD</p>	FOR INFORMATION ONLY / WORK BY OTHERS		8/05/15	ETC-08	
				CONTRACT	BRIDGE NO.	<p>ETC SITE CONDUIT PLAN AET RAMP 'F'</p>		SHEET NO.
				T200911303	DESIGNED BY: JTB			12.33
				COUNTY	CHECKED BY: RAK			TOTAL SHTS.
		NEW CASTLE			1256			



ETC GANTRY CONDUIT PLAN AET RAMP 'F'
SCALE: 3/8" = 1'-0"

NOTES:
1. CONTRACTOR SHALL COORDINATE WITH ETC CONTRACTOR FOR EXACT EQUIPMENT LOCATIONS AND ADJUST FINAL CONDUIT ROUTING AS NECESSARY.
2. SEE DWG. ETC-16 FOR GANTRY COLUMN CONDUIT DETAILS.

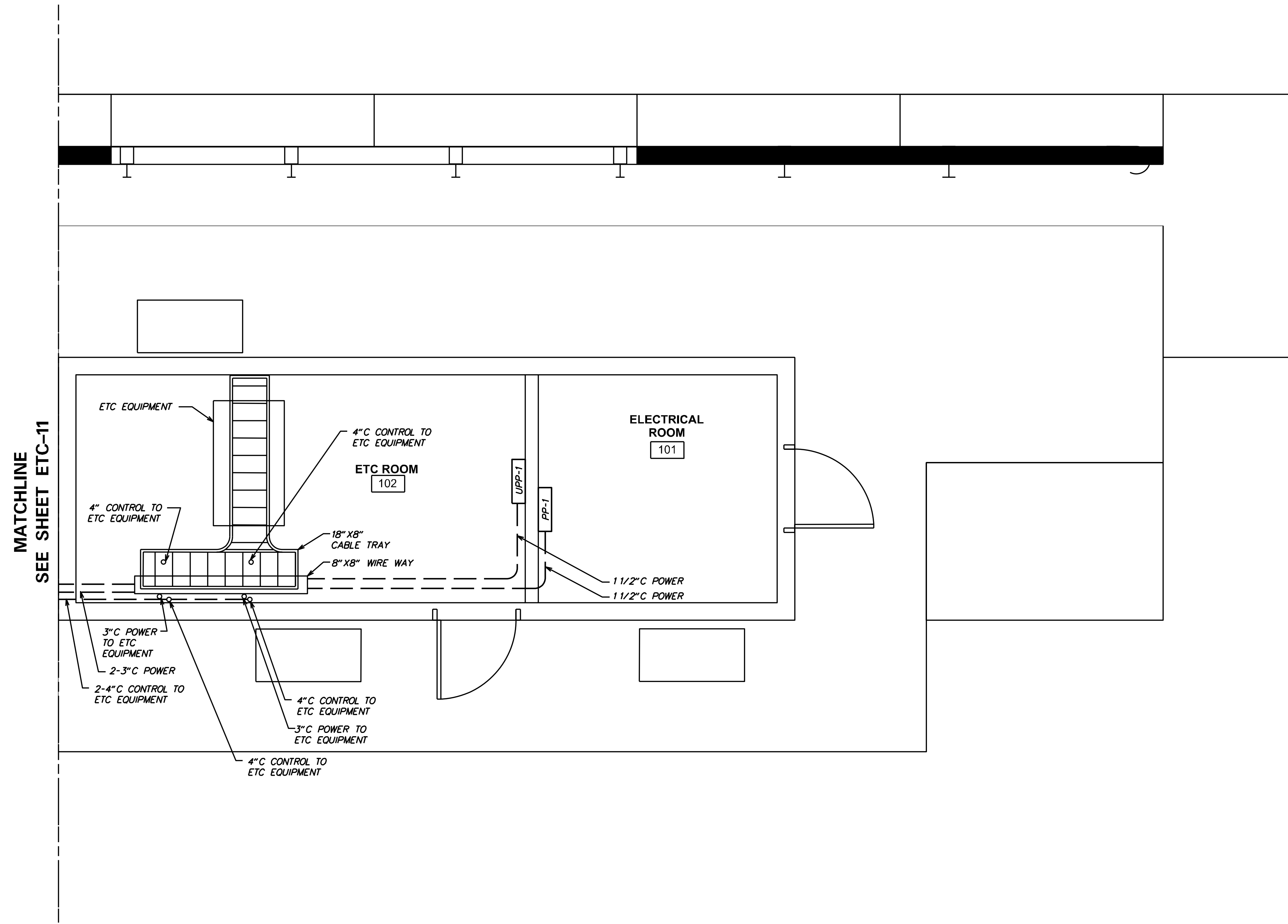
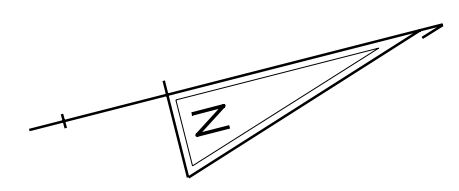
FOR INFORMATION ONLY / WORK BY OTHERS

LAST REVISED: 3/12/2008
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ADDENDUMS / REVISIONS

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JTB
	CHECKED BY: RAK

805/15	ETC-09
ETC GANTRY CONDUIT PLAN AET RAMP 'F'	
SHEET NO. 1234	TOTAL SHTS. 1256



MATCHLINE
SEE SHEET ETC-11

ETC RAMP HUT CONDUIT PLAN AET RAMP 'I'
SCALE: 1/2" = 1'-0"

- NOTES:**
- CONTRACTOR SHALL COORDINATE WITH ETC CONTRACTOR FOR EXACT CABINET LOCATIONS AND ADJUST FINAL CONDUIT ROUTING AS NECESSARY.
 - ALL ETC EQUIPMENT TO BE HOUSED WITHIN "ETC ROOM".

FOR INFORMATION ONLY / WORK BY OTHERS

LAST REVISED: 3/12/2008
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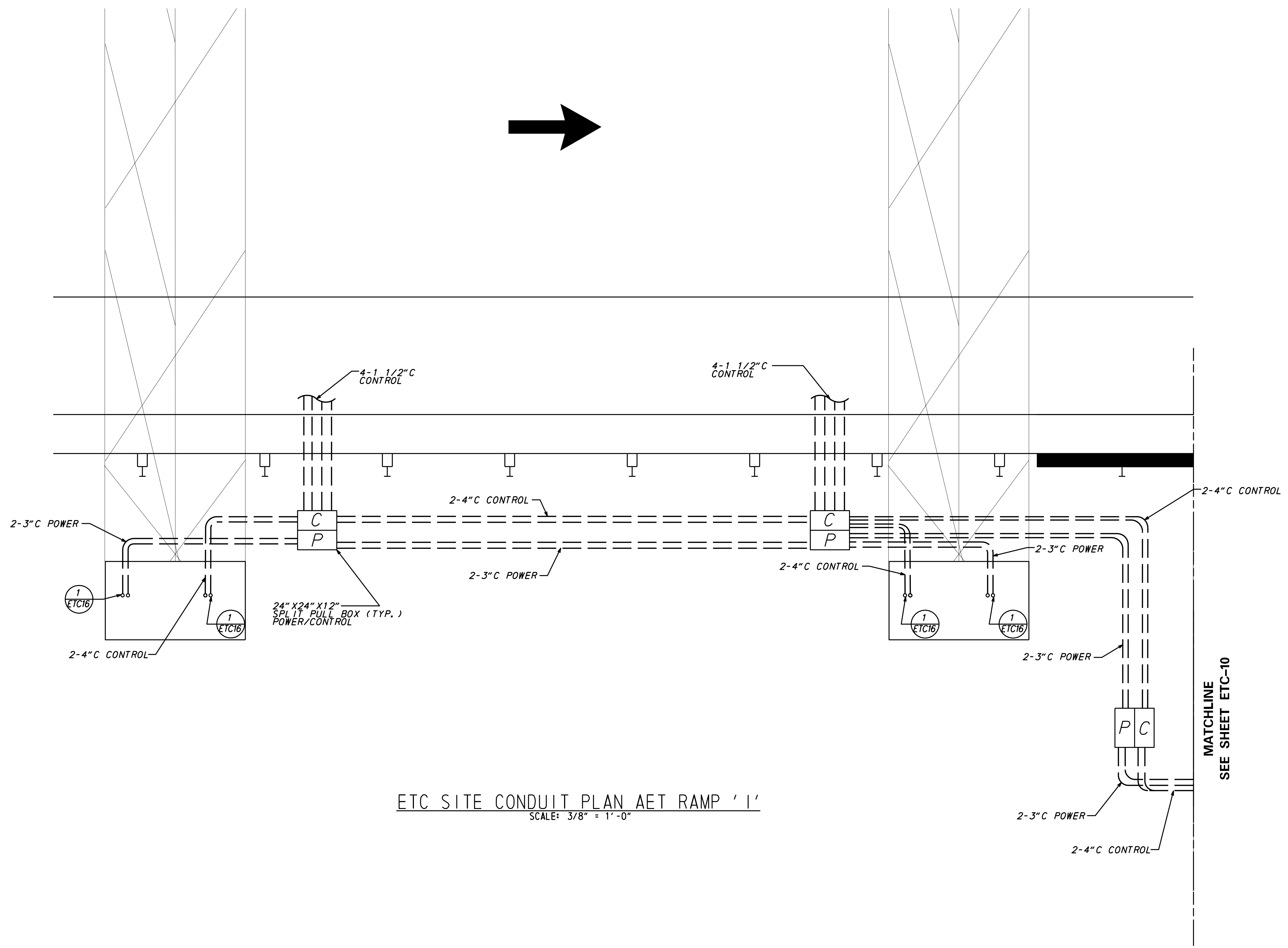
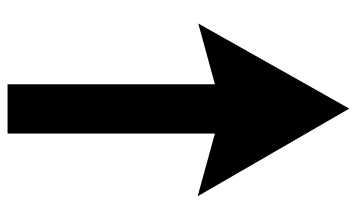
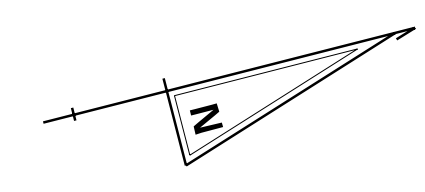


ADDENDUMS / REVISIONS	

**US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JTB
	CHECKED BY: RAK

8/05/15	ETC-10
ETC RAMP HUT CONDUIT PLAN AET RAMP 'I'	
	SHEET NO. 1235
	TOTAL SHTS. 1256



ETC SITE CONDUIT PLAN AET RAMP 'I'
SCALE: 3/8" = 1'-0"

MATCHLINE
SEE SHEET ETC-10

- NOTES:
- CONTRACTOR SHALL COORDINATE WITH ETC CONTRACTOR FOR EXACT EQUIPMENT LOCATIONS AND ADJUST FINAL CONDUIT ROUTING AS NECESSARY.
 - SEE DWG. ETC-16 FOR GANTRY COLUMN CONDUIT DETAILS.

FOR INFORMATION ONLY / WORK BY OTHERS

8/05/15 ETC-11



ADDENDUMS / REVISIONS	

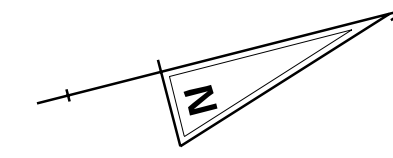
US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JTB
	CHECKED BY: RAK

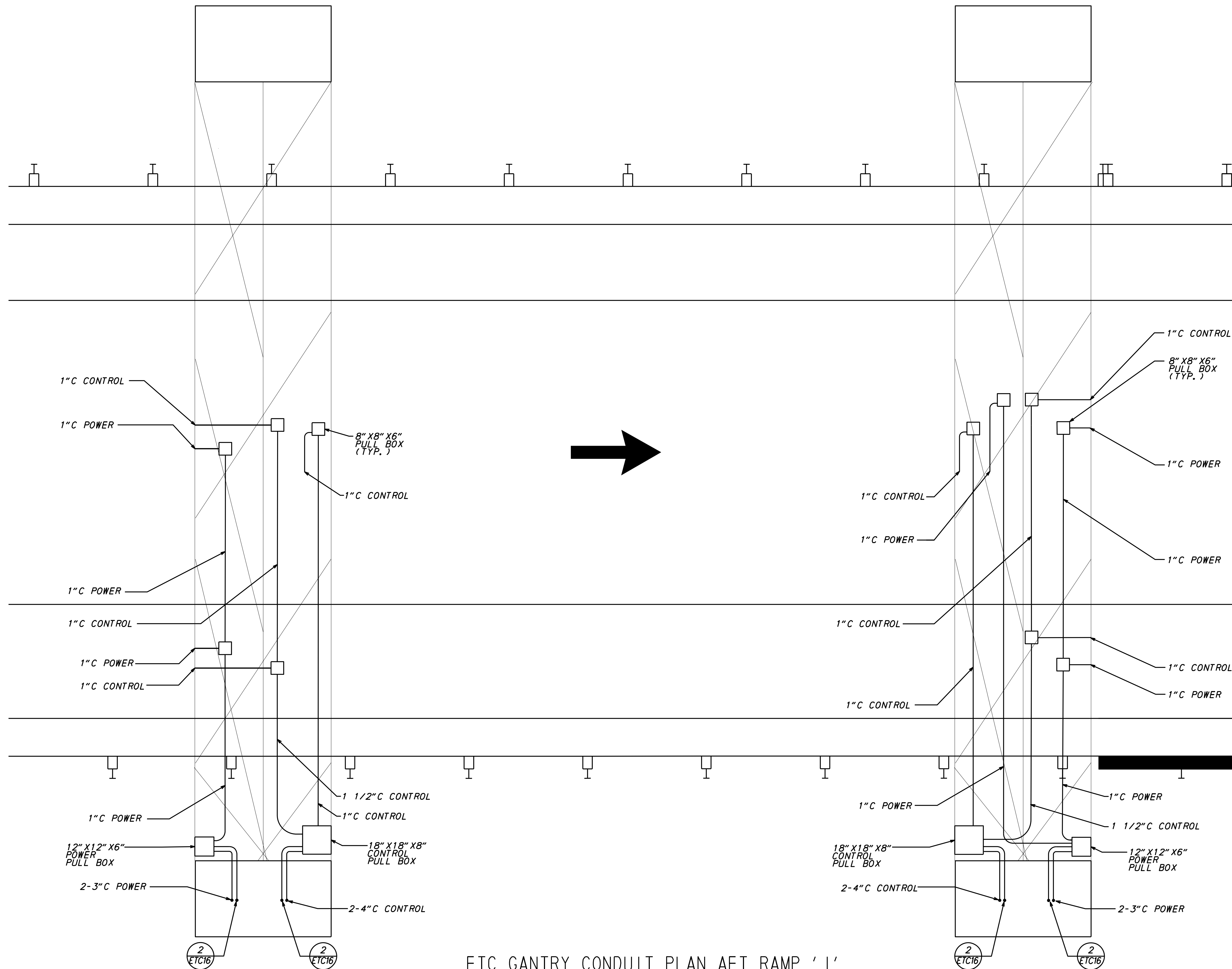
ETC
SITE CONDUIT PLAN
AET RAMP 'I'

SHEET NO. 12.36
TOTAL SHTS. 12.56

LAST REVISED: 3/12/2008
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- NOTES:**
1. CONTRACTOR SHALL COORDINATE WITH ETC CONTRACTOR FOR EXACT EQUIPMENT LOCATIONS AND ADJUST FINAL CONDUIT ROUTING AS NECESSARY.
 2. SEE DWG. ETC-16 FOR GANTRY COLUMN CONDUIT DETAILS.



ETC GANTRY CONDUIT PLAN AET RAMP ' I '
SCALE: 3/8" = 1'-0"

FOR INFORMATION ONLY / WORK BY OTHERS

LAST REVISED: 3/12/2008
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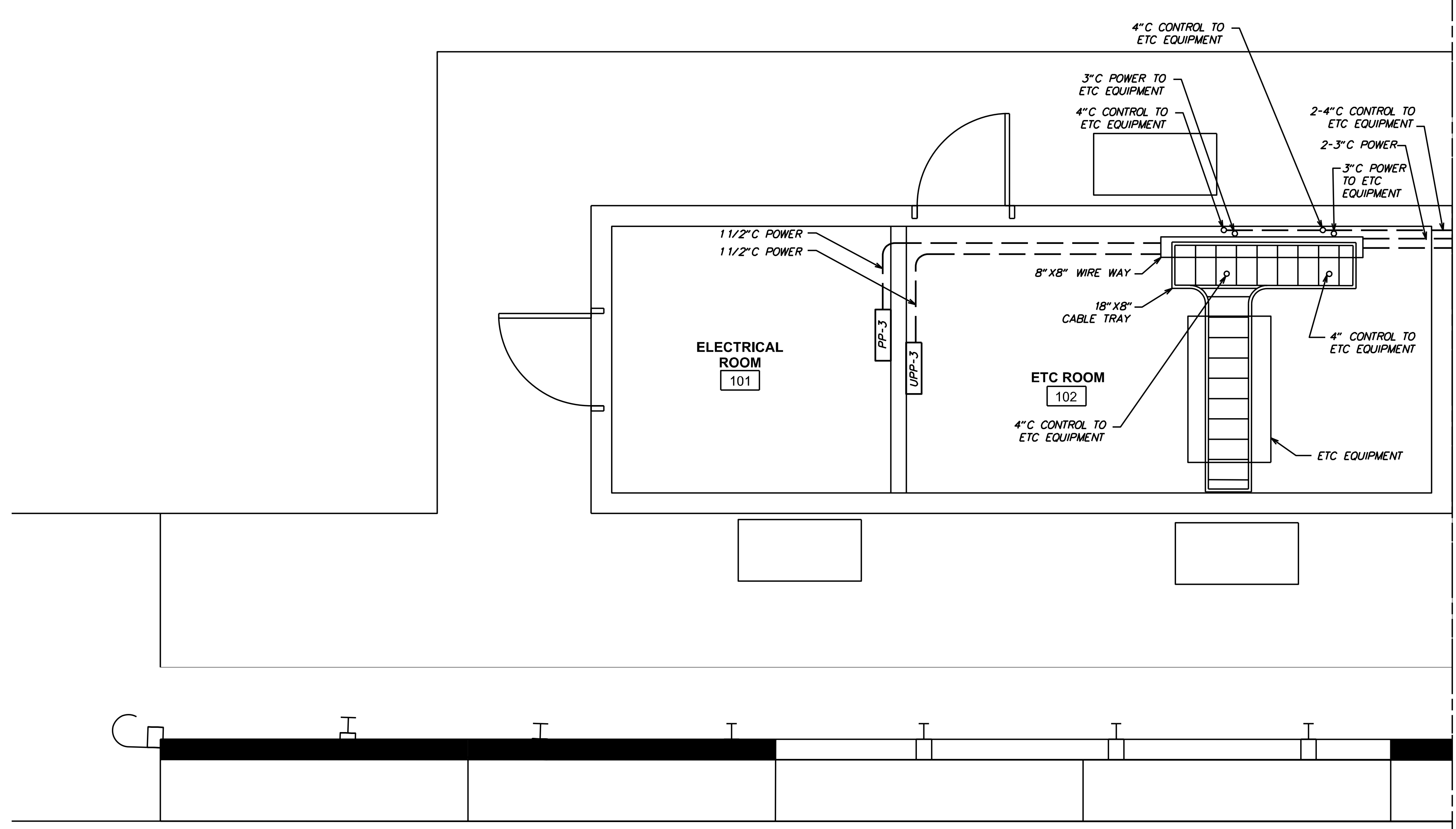
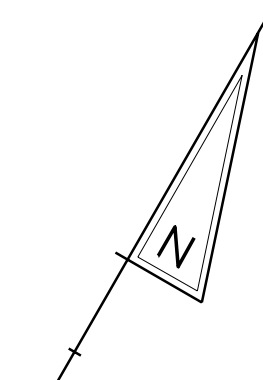


ADDENDUMS / REVISIONS

**US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JTB
	CHECKED BY: RAK

80515	ETC-12
ETC GANTRY CONDUIT PLAN AET RAMP ' I '	
SHEET NO. 12.37	TOTAL SHTS. 12.56



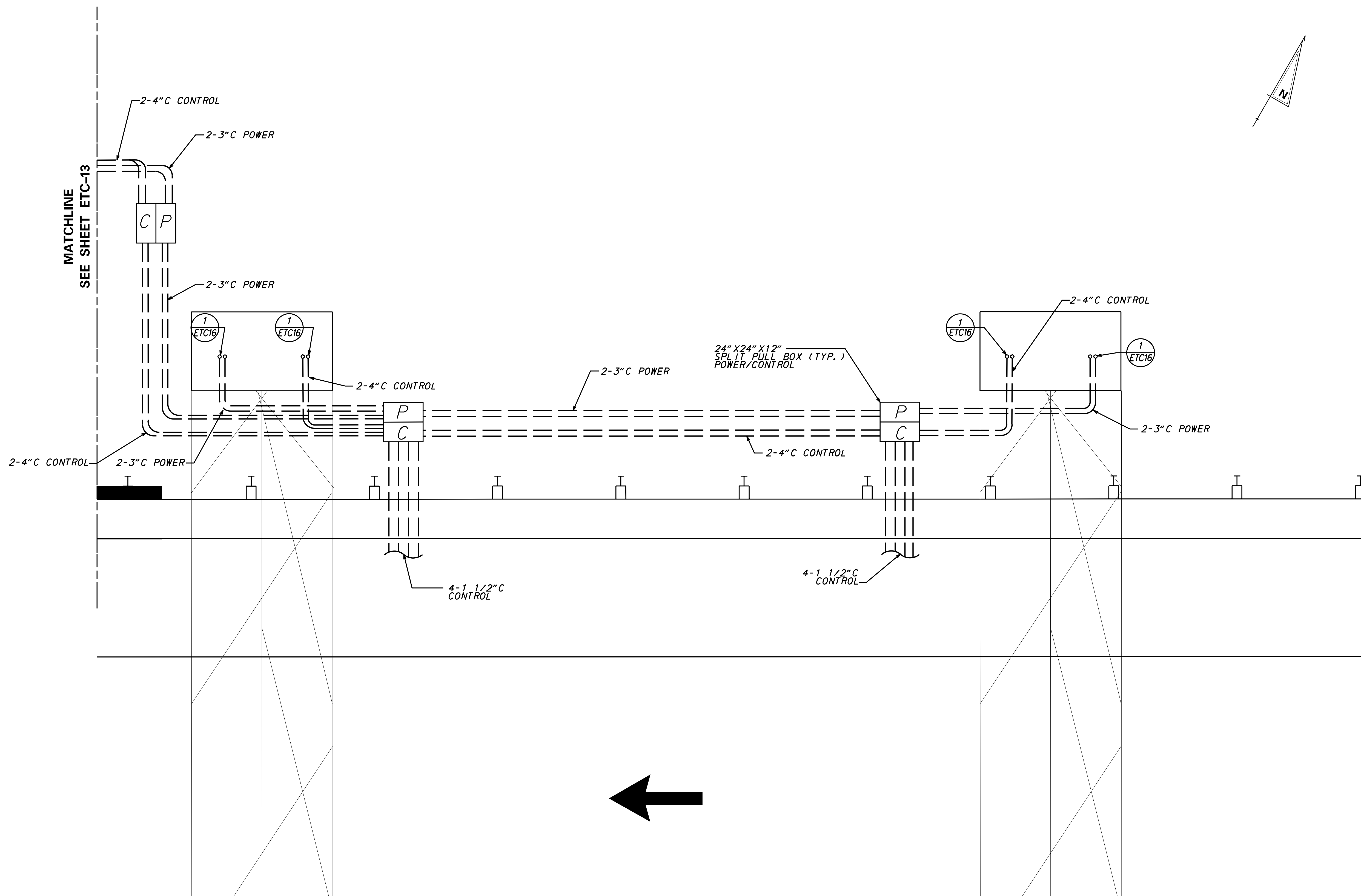
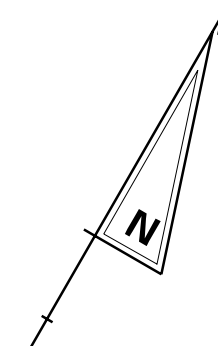
MATCHLINE
SEE SHEET ETC-14

ETC RAMP CONDUIT HUT PLAN AET RAMP 'L'
SCALE: 1/2" = 1'-0"

- NOTES:**
- CONTRACTOR SHALL COORDINATE WITH ETC CONTRACTOR FOR EXACT CABINET LOCATIONS AND ADJUST FINAL CONDUIT ROUTING AS NECESSARY.
 - ALL ETC EQUIPMENT TO BE HOUSED WITHIN "ETC ROOM".

LAST REVISED: 3/12/2008
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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	FOR INFORMATION ONLY / WORK BY OTHERS		8/05/15	ETC-13	
			CONTRACT T200911303	BRIDGE NO.		ETC RAMP HUT CONDUIT PLAN AET RAMP 'L'	SHEET NO. 1238
			COUNTY NEW CASTLE	DESIGNED BY: JTB	CHECKED BY: RAK		TOTAL SHTS. 1256



ETC SITE CONDUIT PLAN AET RAMP 'L'
SCALE: 3/8" = 1'-0"

- NOTES:
1. CONTRACTOR SHALL COORDINATE WITH ETC CONTRACTOR FOR EXACT EQUIPMENT LOCATIONS AND ADJUST FINAL CONDUIT ROUTING AS NECESSARY.
 2. SEE DWG. ETC-16 FOR GANTRY COLUMN CONDUIT DETAILS.

FOR INFORMATION ONLY / WORK BY OTHERS

8/05/15

ETC-14



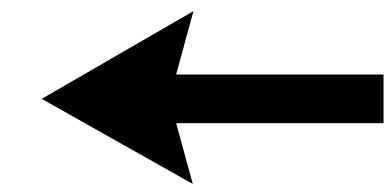
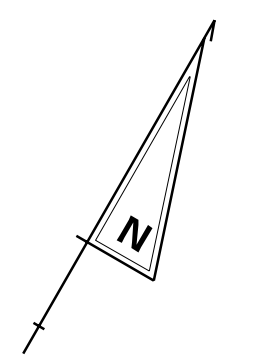
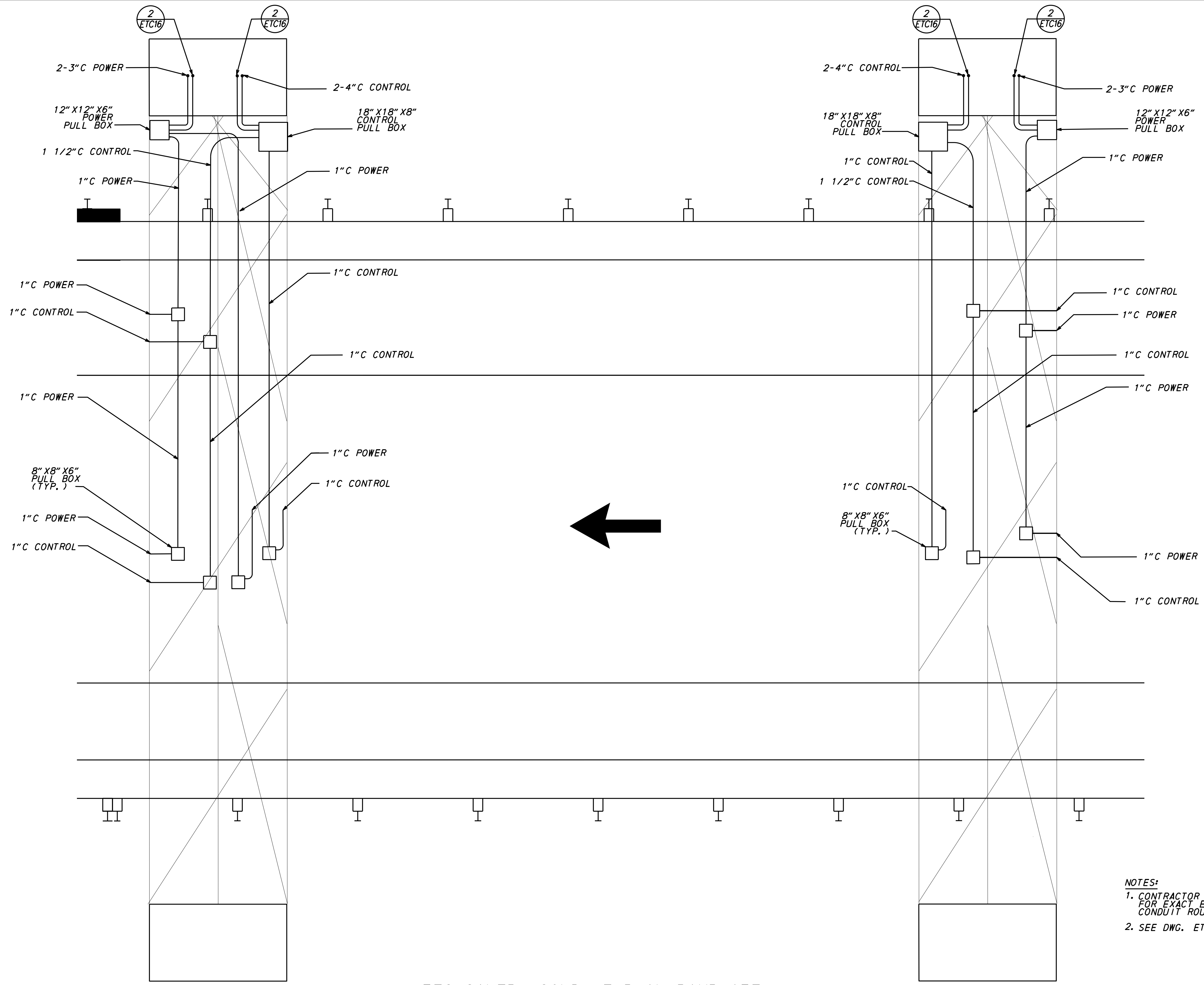
ADDENDUMS / REVISIONS

US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: JTB
NEW CASTLE	CHECKED BY: RAK

ETC
SITE CONDUIT PLAN
AET RAMP 'L'

SHEET NO.
1239
TOTAL SHTS.
1256



- NOTES:**
- CONTRACTOR SHALL COORDINATE WITH ETC CONTRACTOR FOR EXACT EQUIPMENT LOCATIONS AND ADJUST FINAL CONDUIT ROUTING AS NECESSARY.
 - SEE DWG. ETC-08 FOR GANTRY COLUMN CONDUIT DETAILS.

ETC GANTRY CONDUIT PLAN RAMP AET 'L'
SCALE: 3/8" = 1'-0"

FOR INFORMATION ONLY / WORK BY OTHERS

LAST REVISED: 3/12/2008
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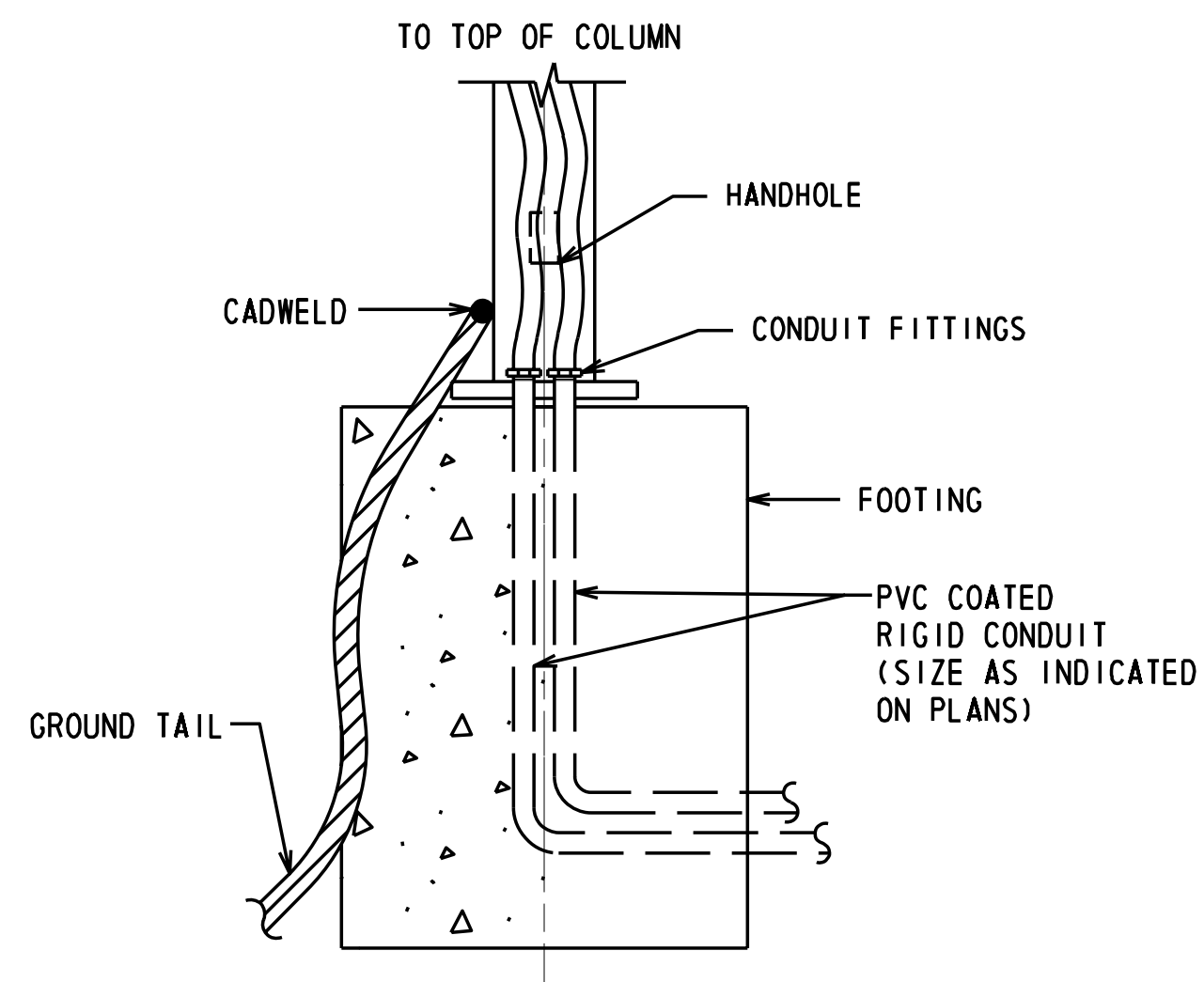
DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	

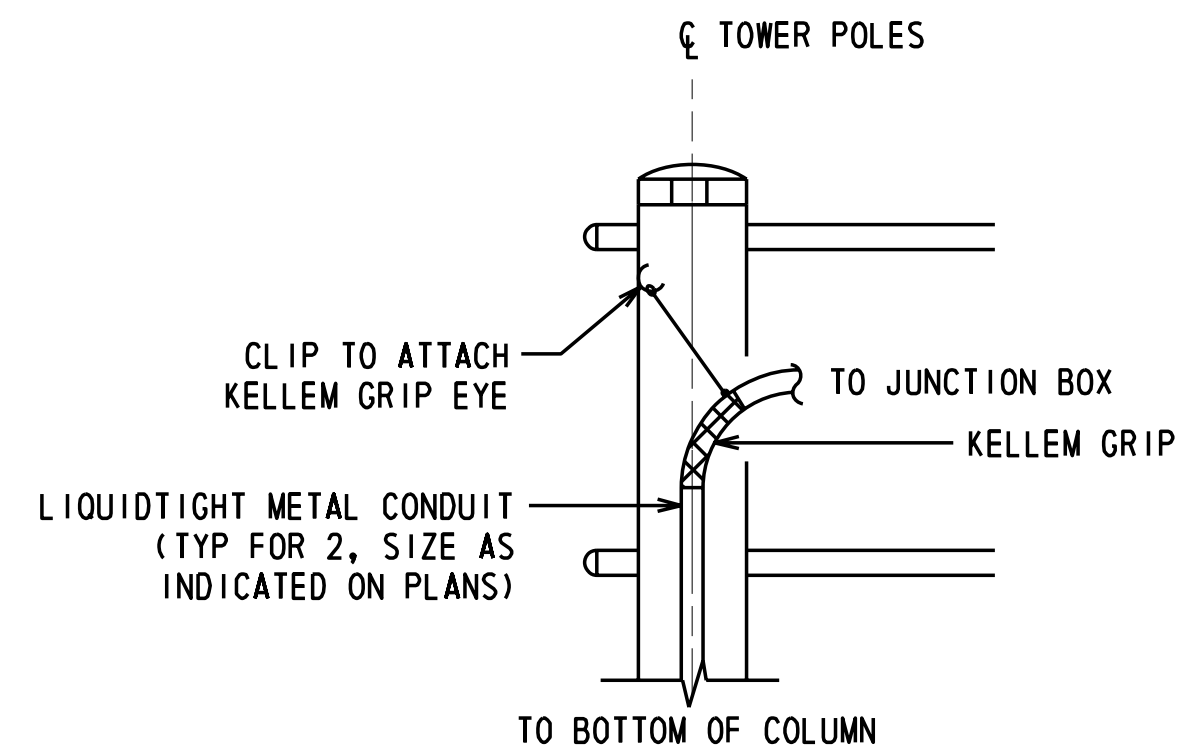
US 301
LEVELS ROAD TO
SUMMIT BRIDGE ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JTB
	CHECKED BY: RAK

805/15	ETC-15
ETC GANTRY CONDUIT PLAN AET RAMP 'L'	
SHEET NO. 1240	TOTAL SHTS. 1256




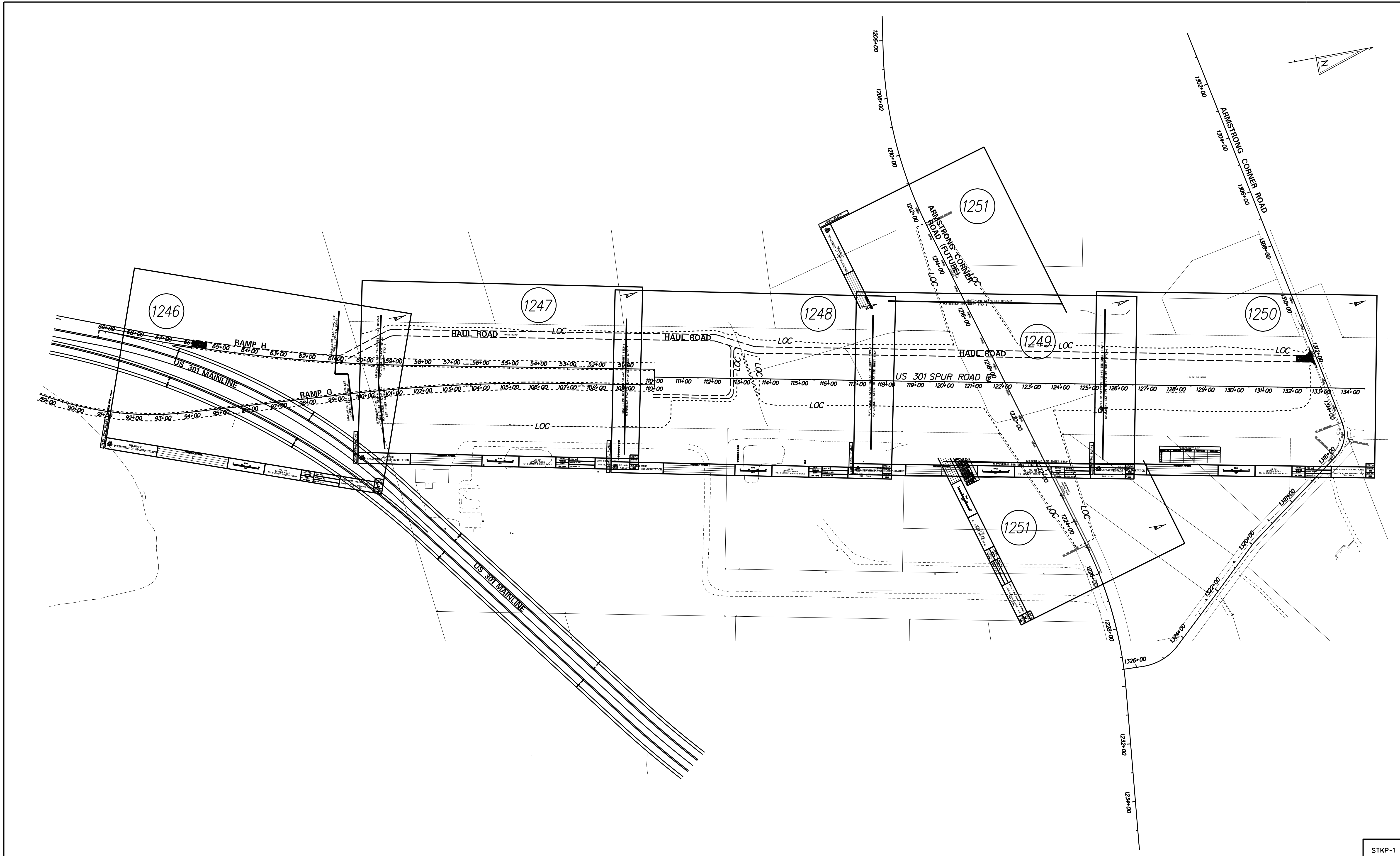
1 TYPICAL GANTRY COLUMN BOTTOM ELEVATION
ETC16 N.T.S.



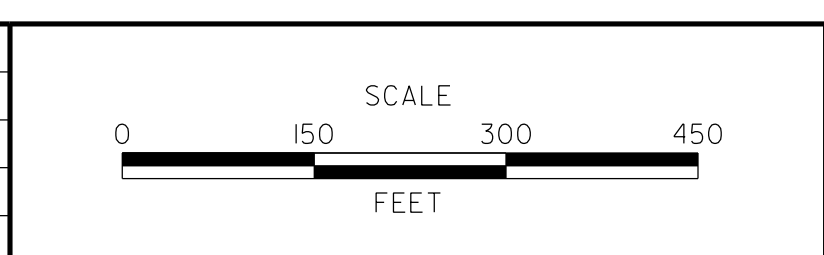
2 TYPICAL GANTRY COLUMN TOP ELEVATION
ETC16 N.T.S.

LAST REVISED: 3/12/2008
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 DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	FOR INFORMATION ONLY / WORK BY OTHERS		805/15	ETC-16	
				CONTRACT	BRIDGE NO.	ETC DETAILS		SHEET NO.
				T200911303	DESIGNED BY: JTB			1241
				COUNTY	CHECKED BY: RAK			TOTAL SHTS.
		NEW CASTLE			1256			



ADDENDUMS / REVISIONS	

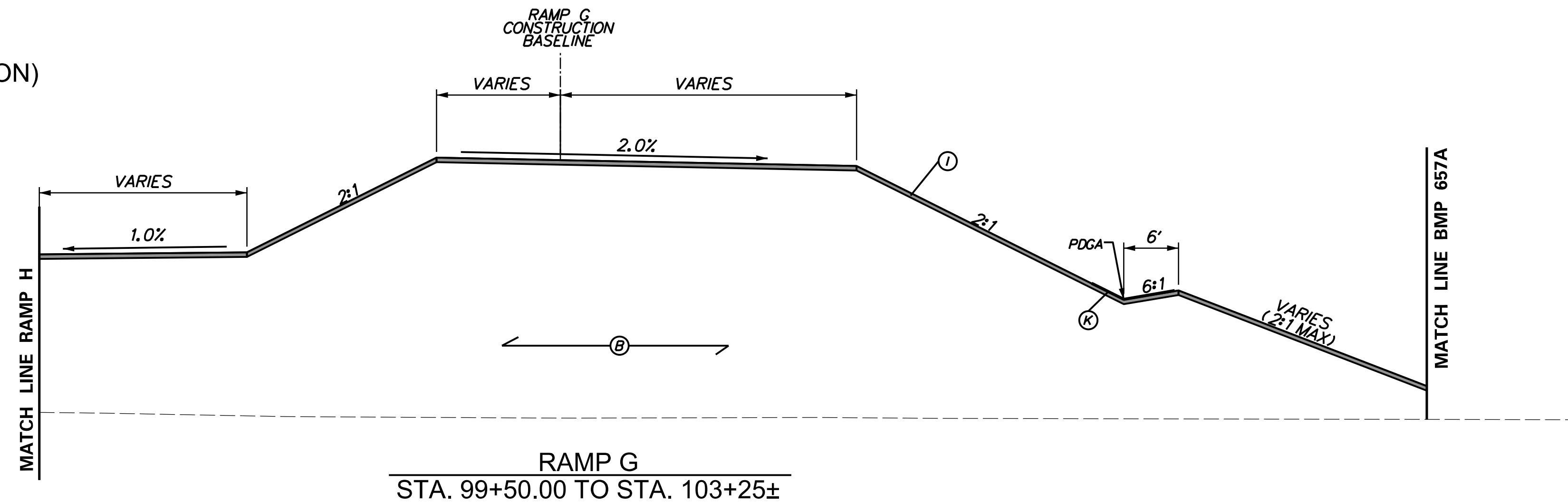
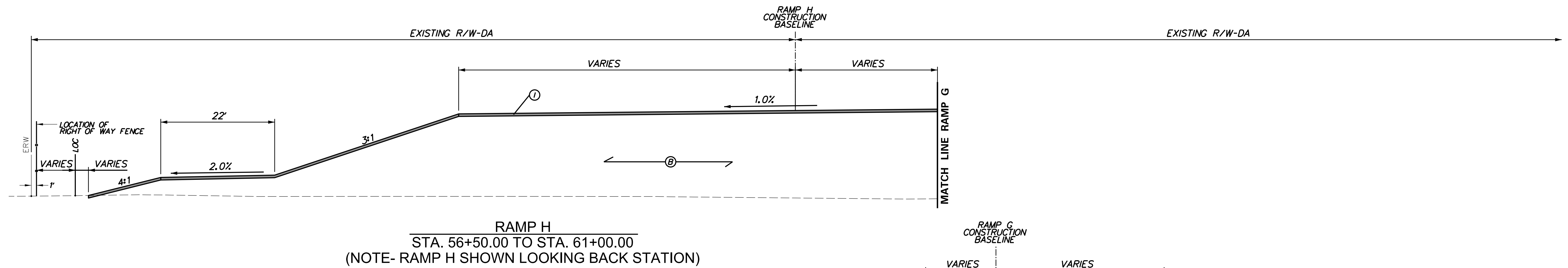
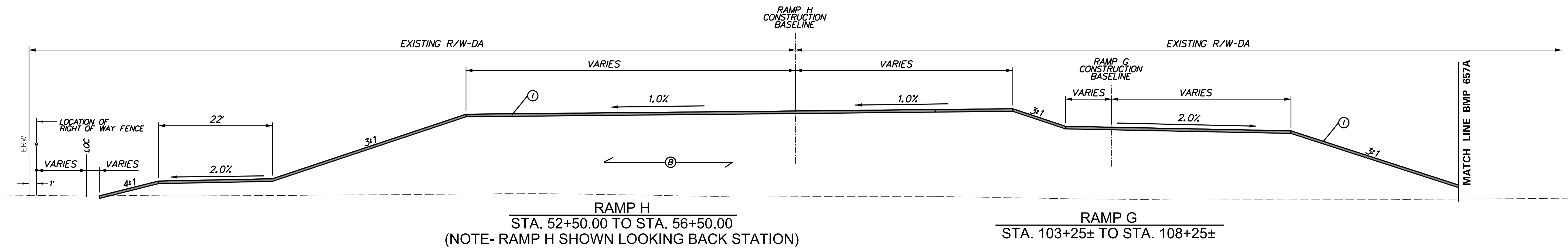


**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: WRC
	CHECKED BY: GTS

SPUR ROAD STOCKPILE PLANS
PLAN SHEET INDEX

STKP-1
SHEET NO. 1242
TOTAL SHTS. 1256



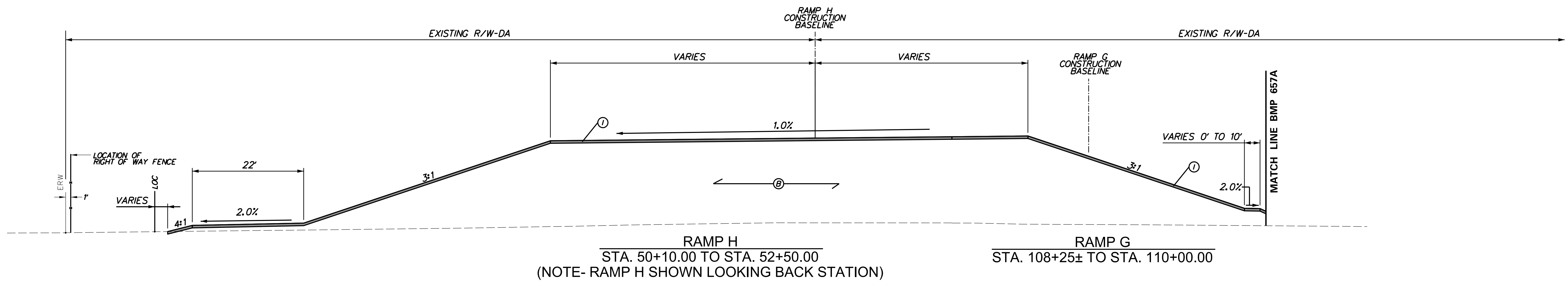
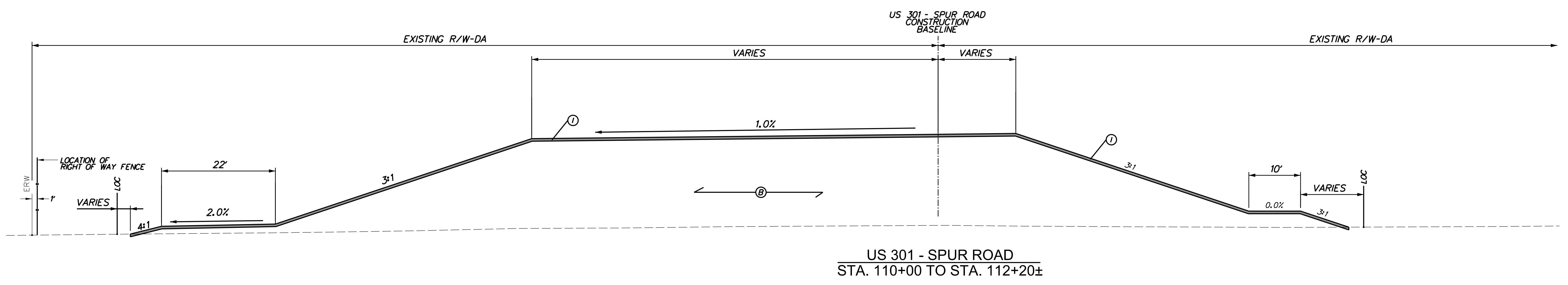
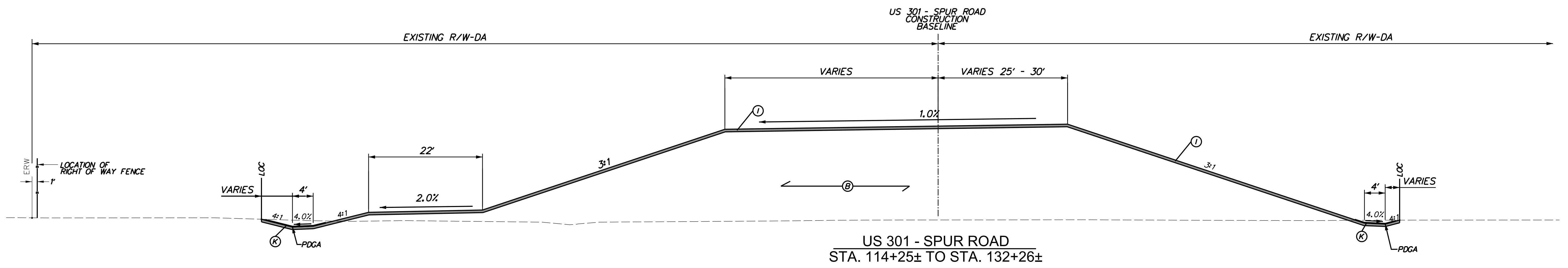
NOTE : RAMP H - FOR STA. 61+00.00 TO STA. 66+00.00 SEE TYPICAL SECTION SHEET NO. TS-23

NOTE : SEE GRADING PLANS FOR OFFSET AND ELEVATION INFORMATION

LEGEND

- Ⓟ ITEM #209006, BORROW TYPE F
- Ⓚ ITEM #735535 SOIL RETENTION BLANKET MULCH, TYPE 5
- Ⓛ ITEM #733002, TOPSOILING, 6" DEPTH
- Ⓛ ITEM #734013, PERMANENT GRASS SEEDING, DRY GROUND

<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS	<p>US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD</p>	CONTRACT	BRIDGE NO.	<p>SPUR ROAD STOCKPILE PLANS TYPICAL SECTIONS</p>	STKP-2
			T200911303	DESIGNED BY: WRC		SHEET NO.
			COUNTY	CHECKED BY: GTS		TOTAL SHTS.
			NEW CASTLE			1243
					1256	



NOTE : SEE GRADING PLANS FOR OFFSET AND ELEVATION INFORMATION

LEGEND

- Ⓟ ITEM #209006, BORROW TYPE F
- Ⓚ ITEM #735535 SOIL RETENTION BLANKET MULCH, TYPE 5
- ① ITEM #733002, TOPSOILING, 6" DEPTH
- ② ITEM #734013, PERMANENT GRASS SEEDING, DRY GROUND



ADDENDUMS / REVISIONS	

**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: WRC
	CHECKED BY: GTS

**SPUR ROAD STOCKPILE PLANS
TYPICAL SECTIONS**

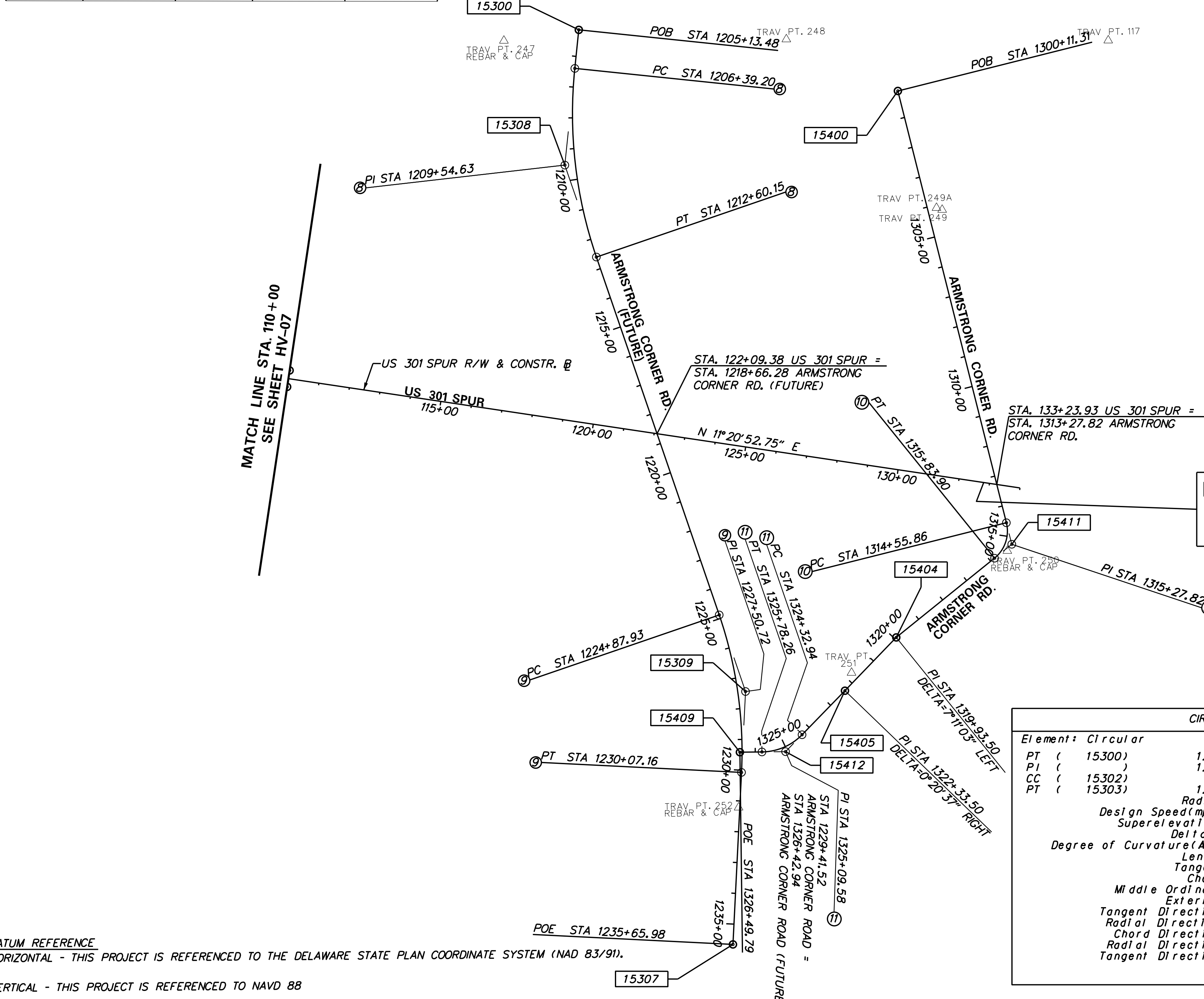
STKP-3
SHEET NO. 1244
TOTAL SHTS. 1256

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
15300	1205+13.48	0.00	539076.4276	565998.1809
15307	1235+65.98	0.00	539428.4337	568986.9947
15308	1209+49.68	34.32	539009.3445	566434.1989
15309	1227+47.55	-25.05	539509.9244	568169.4377
15400	1300+11.31	0.00	540100.5648	566247.7741
15404	1319+93.50	0.00	540007.1979	568018.4611
15405	1322+33.50	0.00	539832.3229	568182.8349
15409	1326+49.79	0.00	539481.9512	568365.2255
15411	1315+19.88	-21.05	540396.5750	567735.1169
15412	1325+05.60	-15.25	539630.0273	568370.7100

HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
247	1205+73.44	238.10	538831.9768	566021.2282	71.28
249A	129+97.96	-858.73	540206.9106	566632.8752	70.05
250	133+89.70	207.92	540381.1117	567755.7580	71.08
251	1321+76.80	24.93	539856.5645	568125.8347	72.40
252	1231+21.46	3.77	539468.7672	568544.2888	71.91

CIRCULAR CURVE NO. ⑨			
Element: Circular	STATION	NORTHING	EASTING
PT (15304)	1224+87.93	539437.0864	567916.9480
PI ()	1227+50.72	539509.9244	568169.4377
CC (15305)		538124.9355	568295.4759
PT (15306)	1230+07.16	539483.8601	568430.9278
Radius:		1365.66	
Design Speed(mph):		55.00	
Superelevation:		-4.40%	
Delta:	21° 47' 02.1800" Right		
Degree of Curvature(Arc):	4° 11' 43.69"		
Length:	519.23		
Tangent:	262.79		
Chord:	516.10		
Middle Ordinate:	24.60		
External:	25.05		
Tangent Direction:	N 73° 54' 29.75" E		
Radial Direction:	S 16° 05' 30.25" E		
Chord Direction:	N 84° 48' 00.84" E		
Radial Direction:	S 5° 41' 31.93" W		
Tangent Direction:	S 84° 18' 28.07" E		

CIRCULAR CURVE NO. ⑩			
Element: Circular	STATION	NORTHING	EASTING
PT (15401)	1314+55.86	540382.5291	567664.5410
PI ()	1315+27.82	540396.5750	567735.1169
CC (15402)		540272.2002	567686.4986
PT (15403)	1315+83.90	540338.3898	567777.4575
Radius:		112.49	
Design Speed(mph):		55.00	
Superelevation:		0.00%	
Delta:	65° 12' 47.00" Right		
Degree of Curvature(Arc):	50° 55' 58.56"		
Length:	128.04		
Tangent:	71.96		
Chord:	121.24		
Middle Ordinate:	17.73		
External:	21.05		
Tangent Direction:	N 78° 44' 38.75" E		
Radial Direction:	S 11° 15' 21.25" E		
Chord Direction:	S 68° 38' 57.75" E		
Radial Direction:	S 53° 57' 25.75" W		
Tangent Direction:	S 36° 02' 34.25" E		



**LIMIT OF CONSTRUCTION
CONTRACT T200911303
STATION 132+81**

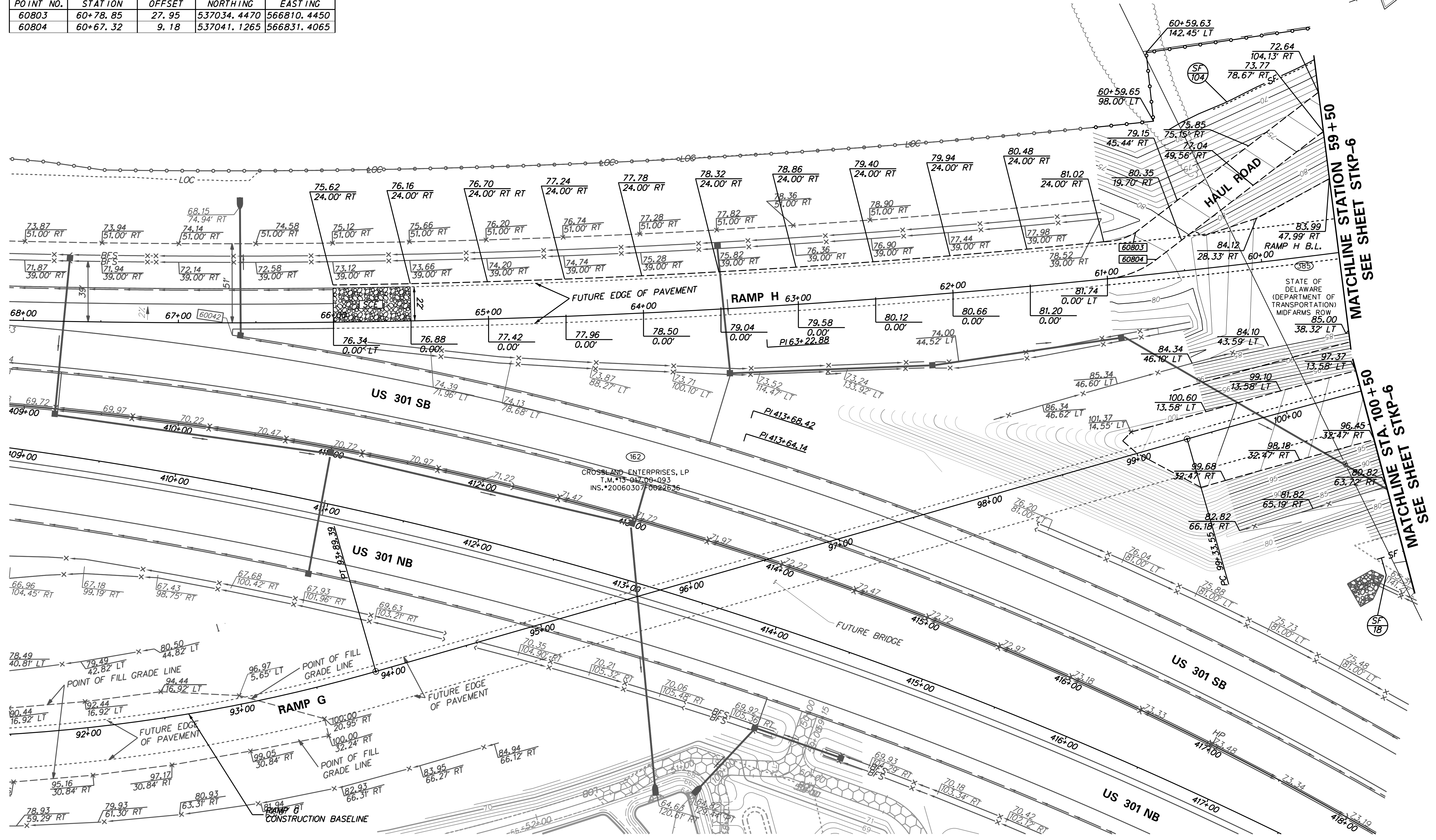
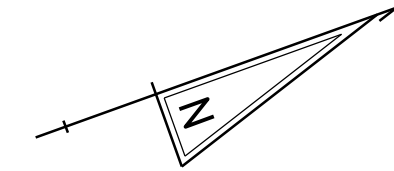
CIRCULAR CURVE NO. ⑪			
Element: Circular	STATION	NORTHING	EASTING
PT (15300)	1206+39.20	539057.3108	566122.4335
PI ()	1209+54.63	539009.3445	566434.1989
CC (15302)		540473.0429	566340.2494
PT (15303)	1212+60.15	539096.7752	566737.2736
Radius:		1432.39	
Design Speed(mph):		55.00	
Superelevation:		-4.40%	
Delta:	24° 50' 18.00" Left		
Degree of Curvature(Arc):	4° 00' 00.05"		
Length:	620.96		
Tangent:	315.43		
Chord:	616.11		
Middle Ordinate:	33.52		
External:	34.32		
Tangent Direction:	S 81° 15' 12.25" E		
Radial Direction:	S 8° 44' 47.75" W		
Chord Direction:	N 86° 19' 38.75" E		
Radial Direction:	S 16° 05' 30.25" E		
Tangent Direction:	N 73° 54' 29.75" E		

CIRCULAR CURVE NO. ⑫			
Element: Circular	STATION	NORTHING	EASTING
PT (15406)	1324.32.94	539686.1831	568318.5572
PI ()	1325+09.58	539630.0273	568370.7100
CC (15407)		539560.2891	568183.0002
PT (15408)	1325+78.26	539553.4418	568367.8734
Radius:		185.00	
Design Speed(mph):		55.00	
Superelevation:		0.00%	
Delta:	45° 00' 16.1700" Right		
Degree of Curvature(Arc):	30° 58' 14.49"		
Length:	145.31		
Tangent:	76.64		
Chord:	141.61		
Middle Ordinate:	14.09		
External:	15.25		
Tangent Direction:	S 42° 53' 00.00" E		
Radial Direction:	S 47° 07' 00.00" W		
Chord Direction:	S 20° 22' 51.92" E		
Radial Direction:	N 87° 52' 43.83" W		
Tangent Direction:	S 2° 07' 16.17" E		

DATUM REFERENCE
HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLAN COORDINATE SYSTEM (NAD 83/91).
VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88

	ADDENDUMS / REVISIONS		US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	HORIZONTAL & VERTICAL CONTROL	STKP-4
				T200911303			DESIGNED BY: WRC
				COUNTY	CHECKED BY: GTS		TOTAL SHTS. 1256
				NEW CASTLE			

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60803	60+78.85	27.95	537034.4470	566810.4450
60804	60+67.32	9.18	537041.1265	566831.4065

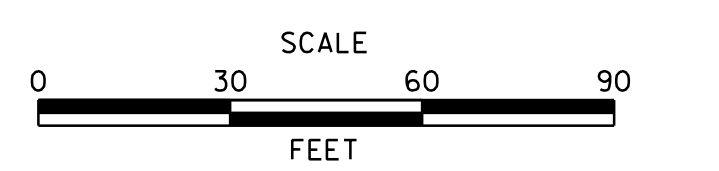


MATCHLINE STATION 59+50
SEE SHEET STKP-6

MATCHLINE STA. 100+50
SEE SHEET STKP-6



ADDENDUMS / REVISIONS	



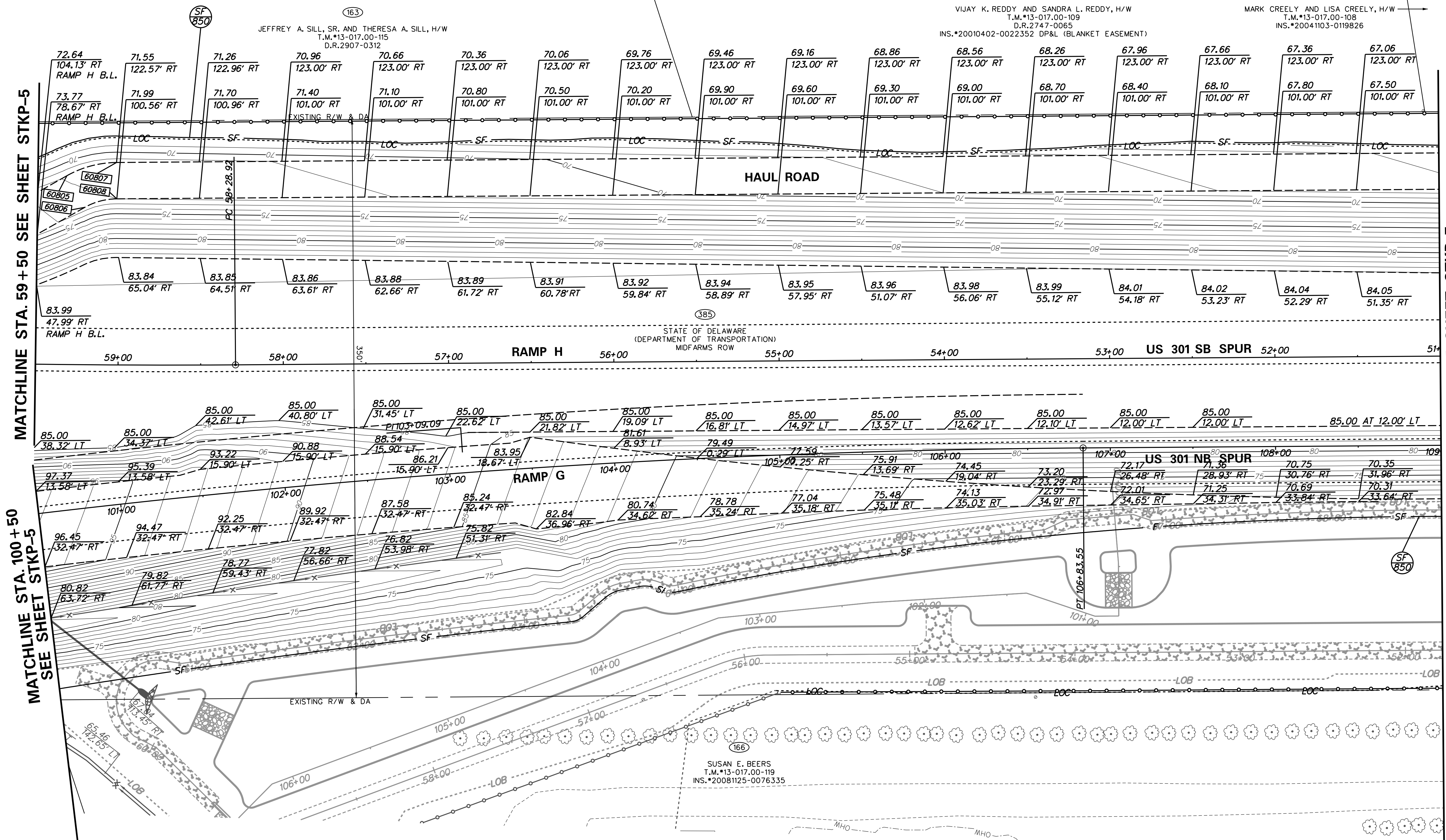
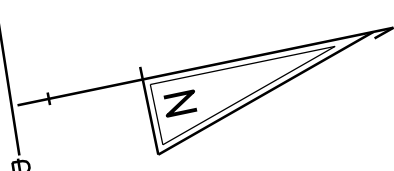
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: WRC
	CHECKED BY: GTS

**SPUR ROAD STOCKPILE PLANS
CONSTRUCTION, GRADING AND
E&S PLAN**

STKP-5	
SHEET NO.	1246
TOTAL SHTS.	1256

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60805	59+32.16	114.30	537195.1276	566759.2437
60806	59+20.95	95.25	537201.8071	566780.2053
60807	59+01.56	122.55	537226.1511	566757.5292
60808	59+01.28	100.55	537221.8222	566779.0991



MATCHLINE STA. 59+50 SEE SHEET STKP-5

MATCHLINE STA. 100+50 SEE SHEET STKP-5

MATCHLINE STATION 109+00 SEE SHEET STKP-7

JEFFREY A. SILL, SR. AND THERESA A. SILL, H/W
T.M.#13-017.00-115
D.R.2907-0312

VIJAY K. REDDY AND SANDRA L. REDDY, H/W
T.M.#13-017.00-109
D.R.2747-0065
INS.#20010402-0022352 DP&L (BLANKET EASEMENT)

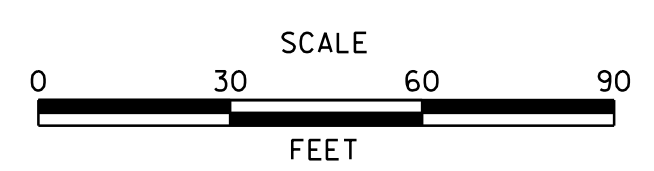
MARK CREELEY AND LISA CREELEY, H/W
T.M.#13-017.00-108
INS.#20041103-0119826

STATE OF DELAWARE
(DEPARTMENT OF TRANSPORTATION)
MIDFARMS ROW

SUSAN E. BEERS
T.M.#13-017.00-119
INS.#20081125-0076335



ADDENDUMS / REVISIONS



US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: WRC
NEW CASTLE	CHECKED BY: GTS

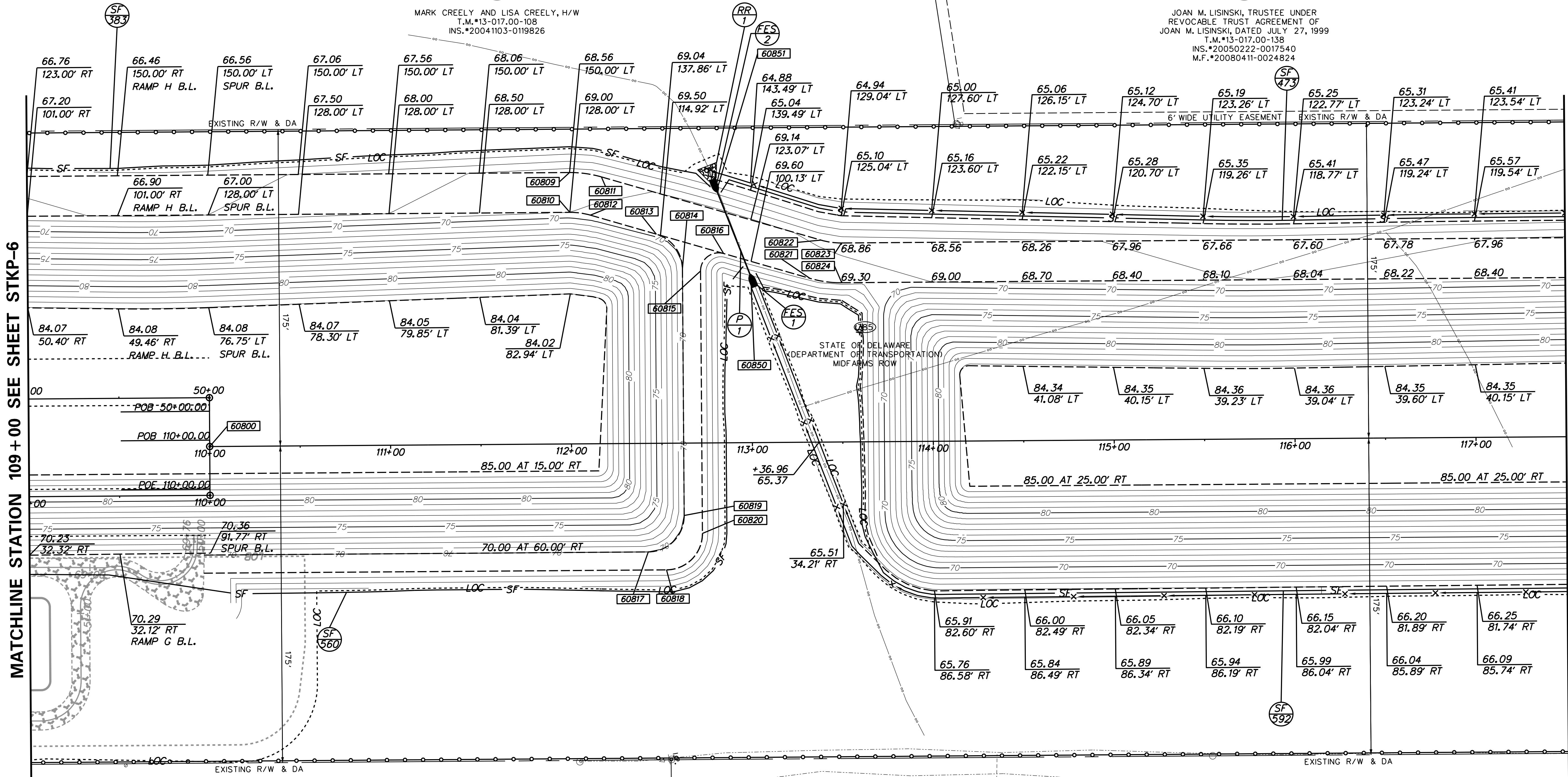
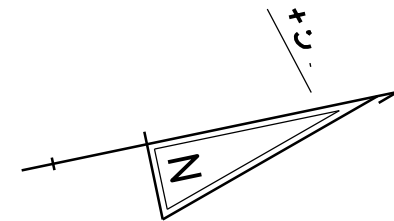
SPUR ROAD STOCKPILE PLANS
CONSTRUCTION, GRADING AND
E&S PLAN

STKP-6
SHEET NO.
1247
TOTAL SHTS.
1256

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	24" RCP	V	51'	0.003	64.98	64.83

RIP-RAP SCHEDULE					
NO.	TYPE	LENGTH	WIDTH	AREA	THICKNESS
1	R-4	8'	11.3'	7 SY	20"

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
1	24" RCP	0.003	NO
2	24" RCP	0.003	NO



COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60800	110+00.00	0.00	538079.0411	567081.6873
60809	112+00.00	-150.00	538304.6463	566973.9733
60810	112+00.00	-128.00	538300.3174	566995.5432
60811	112+17.56	-147.45	538321.3632	566979.9244
60812	112+11.32	-126.36	538311.0950	566999.3811
60813	112+47.67	-115.61	538344.6189	567017.0734
60814	112+62.00	-96.43	538354.8932	567038.6966
60815	112+72.00	-95.03	538364.4219	567042.0383
60816	112+84.84	-104.62	538378.8938	567035.1620

166
SUSAN E. BEERS
T.M.*13-017.00-119
INS.*20081125-0076335

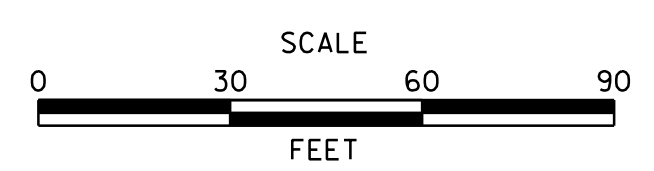
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60817	112+42.00	60.00	538304.5041	567188.1320
60818	112+52.00	70.00	538312.3409	567199.9042
60819	112+62.00	40.00	538328.0484	567172.4584
60820	112+72.00	50.00	538335.8852	567184.2305
60821	113+32.42	-90.55	538422.7759	567058.3208
60822	113+38.66	-111.64	538433.0442	567038.8641
60823	113+50.00	-110.00	538443.8431	567042.7064
60824	113+50.00	-88.00	538439.5142	567064.2763

301
RICHARD F. MATONI
T.M.*13-017.00-121
INS.*20031113-0145141
M.F.*20050726-0073388
D.R.20041110-012581 DP&L
(BLANKET EASEMENT)

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60850	112+99.74	-91.99	538391.0242	567050.4786
60851	112+81.29	-139.53	538382.2825	567000.2334



ADDENDUMS / REVISIONS



US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

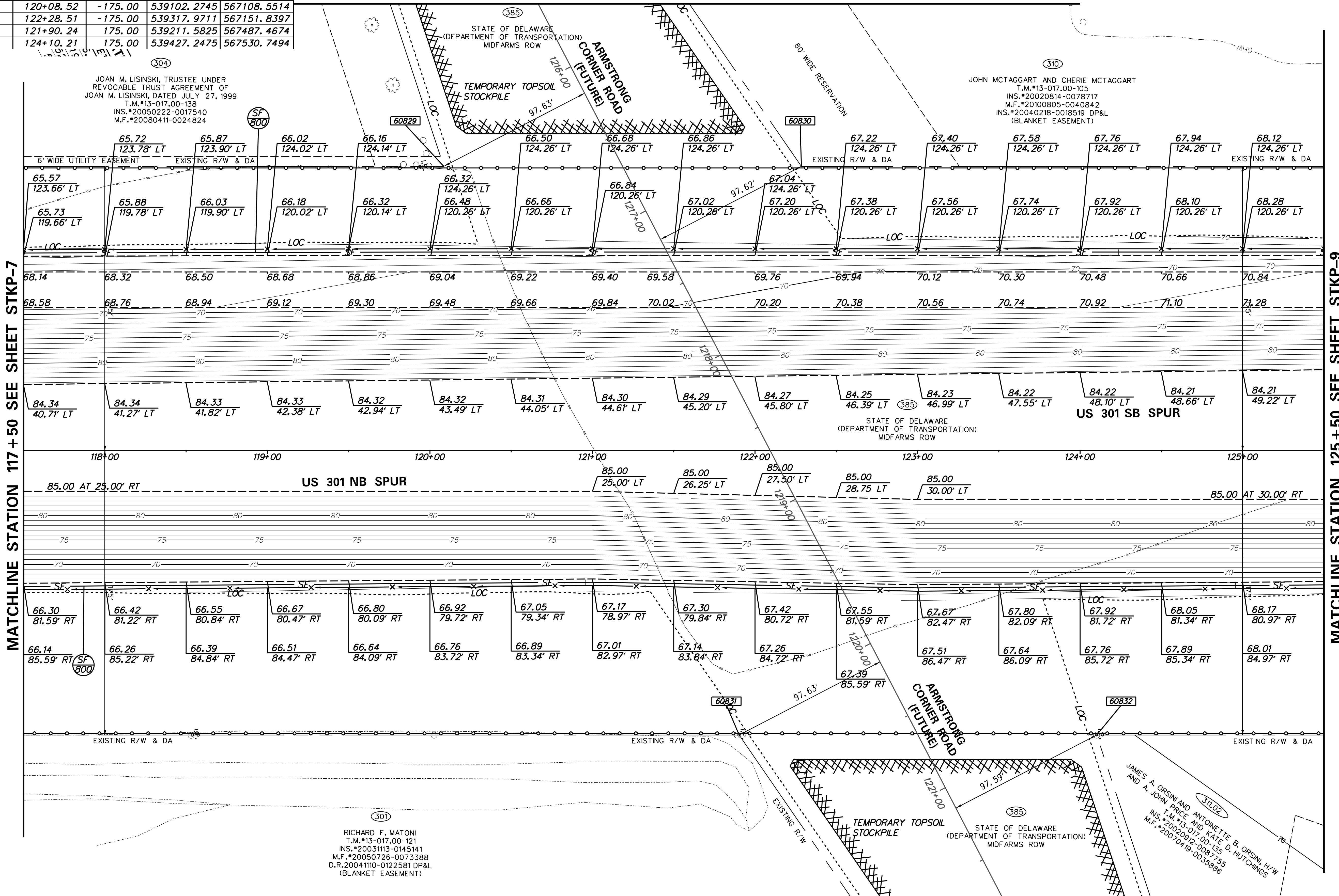
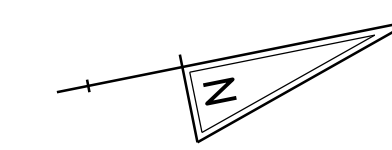
CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: WRC
	CHECKED BY: GTS

SPUR ROAD STOCKPILE PLANS
CONSTRUCTION, GRADING AND
E&S PLAN

STKP-7
SHEET NO. 1248
TOTAL SHTS. 1256

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60829	120+08.52	-175.00	539102.2745	567108.5514
60830	122+28.51	-175.00	539317.9711	567151.8397
60831	121+90.24	175.00	539211.5825	567487.4674
60832	124+10.21	175.00	539427.2475	567530.7494

MATCHLINE SEE SHEET STKP-10

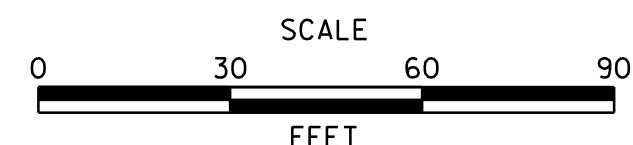


MATCHLINE STATION 125+50 SEE SHEET STKP-9

MATCHLINE SEE SHEET STKP-10



ADDENDUMS / REVISIONS



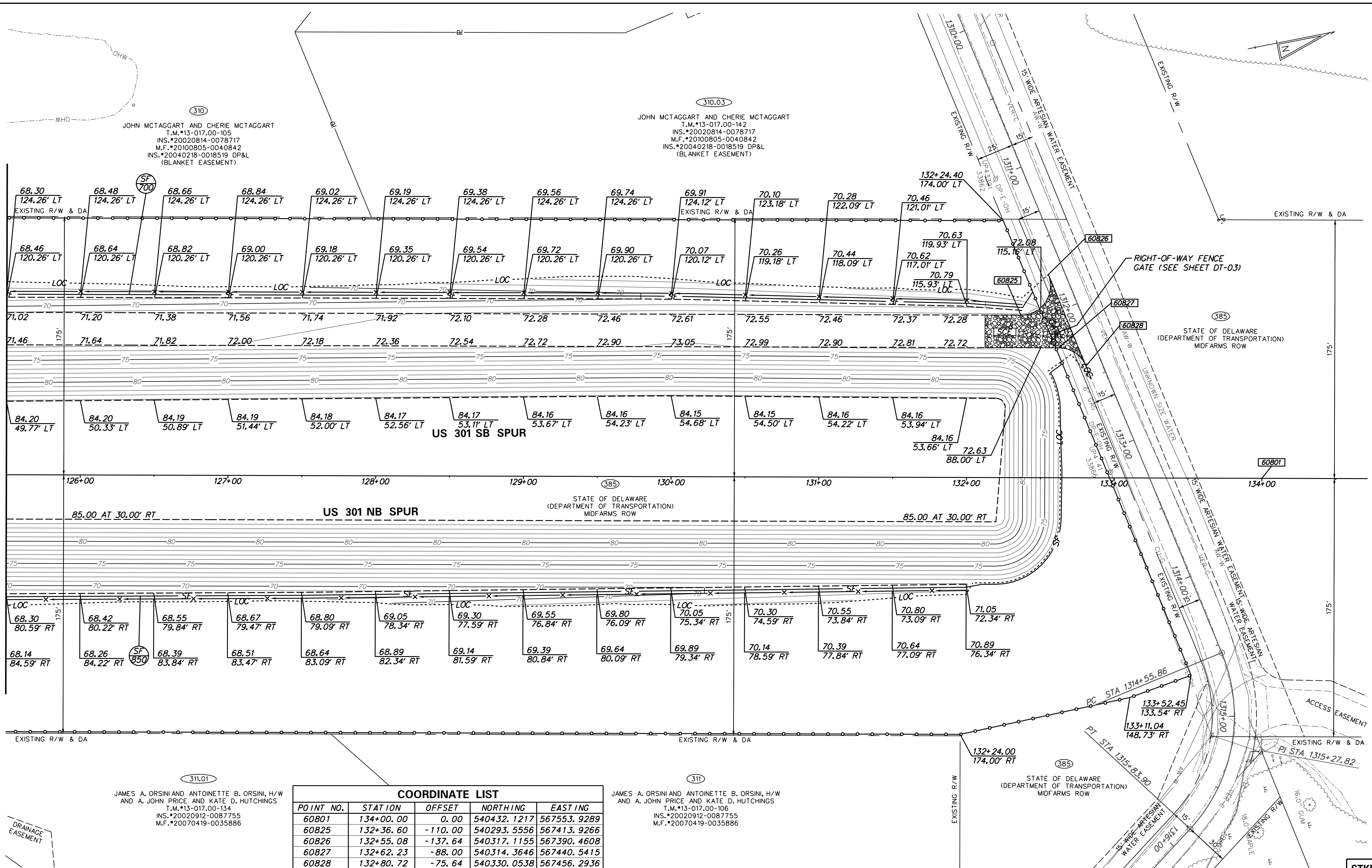
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.
T200911303	
COUNTY	DESIGNED BY: WRC
NEW CASTLE	CHECKED BY: GTS

**SPUR ROAD STOCKPILE PLANS
CONSTRUCTION, GRADING AND
E&S PLAN**

STKP-8
SHEET NO.
1249
TOTAL SHTS.
1256

MATCHLINE STATION 125+50 SEE SHEET STKP-8



310.03
 JOHN MCTAGGART AND CHERIE MCTAGGART
 T.M.*13-017.00-105
 INS.*20020814-0078717
 M.F.*20100805-0040842
 INS.*20040218-0018519 DP&L
 (BLANKET EASEMENT)

310.03
 JOHN MCTAGGART AND CHERIE MCTAGGART
 T.M.*13-017.00-142
 INS.*20020814-0078717
 M.F.*20100805-0040842
 INS.*20040218-0018519 DP&L
 (BLANKET EASEMENT)

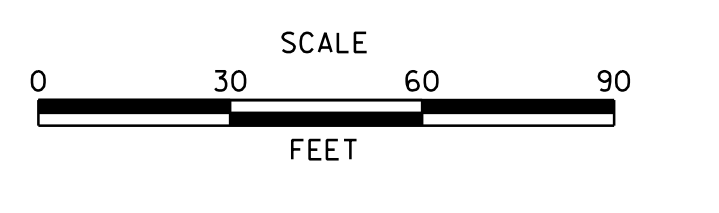
311.01
 JAMES A. ORSINI AND ANTOINETTE B. ORSINI, H/W
 AND A. JOHN PRICE AND KATE D. HUTCHINGS
 T.M.*13-017.00-134
 INS.*20020912-0087755
 M.F.*20070419-0035886

311
 JAMES A. ORSINI AND ANTOINETTE B. ORSINI, H/W
 AND A. JOHN PRICE AND KATE D. HUTCHINGS
 T.M.*13-017.00-106
 INS.*20020912-0087755
 M.F.*20070419-0035886

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60801	134+00.00	0.00	540432.1217	567553.9289
60825	132+36.60	-110.00	540293.5556	567413.9266
60826	132+55.08	-137.64	540317.1155	567390.4608
60827	132+62.23	-88.00	540314.3646	567440.5415
60828	132+80.72	-75.64	540330.0538	567456.2936



ADDENDUMS / REVISIONS	

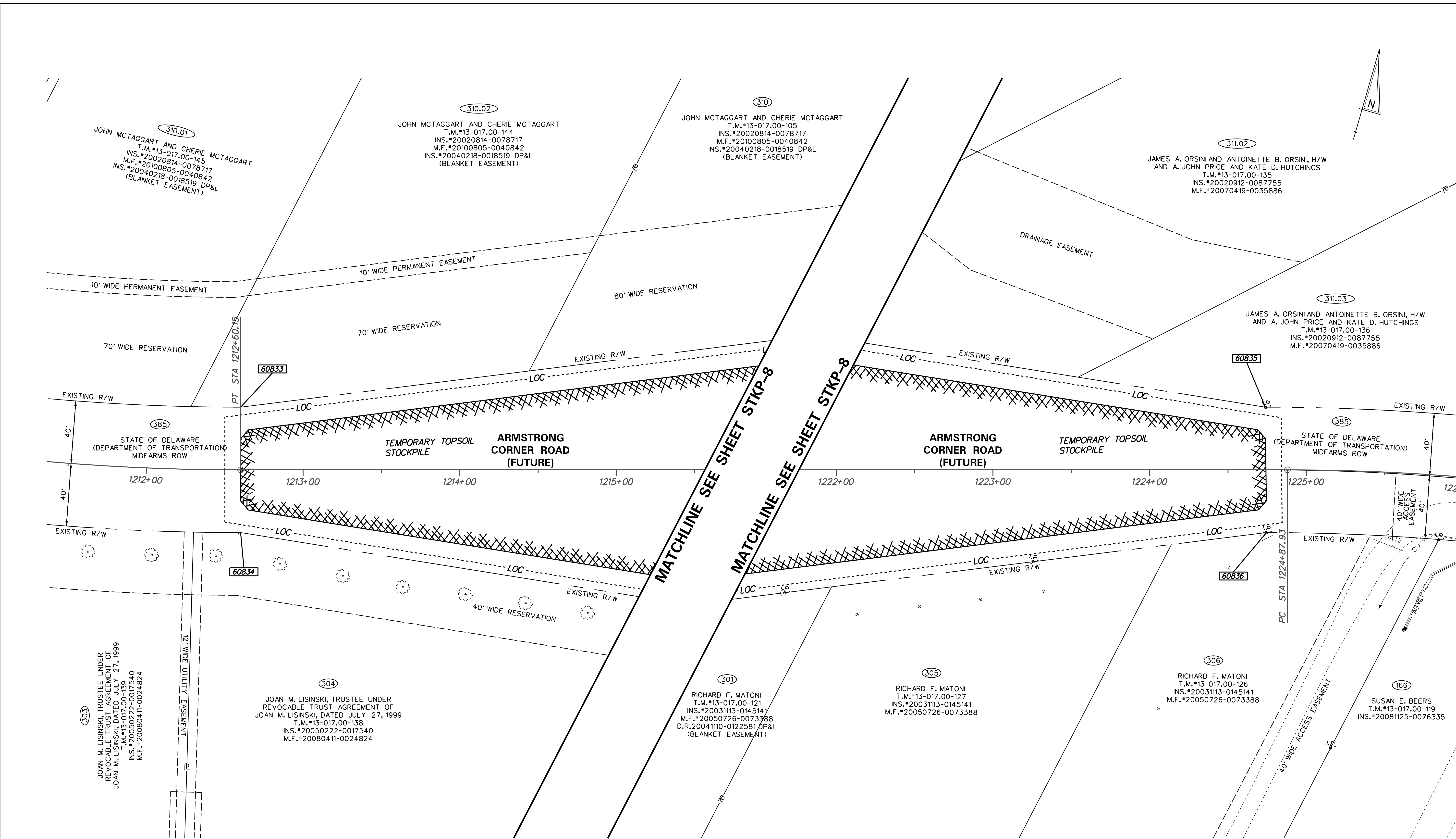
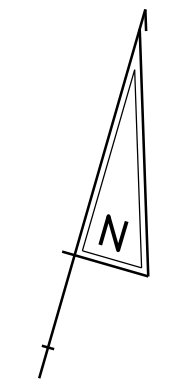


**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: WRC
	CHECKED BY: GTS

**SPUR ROAD STOCKPILE PLANS
 CONSTRUCTION, GRADING AND
 E&S PLAN**

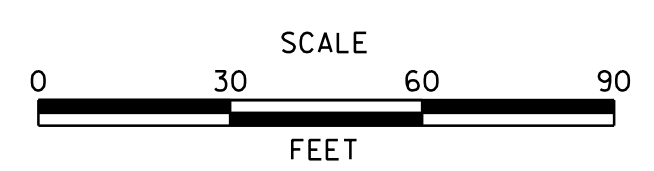
STKP-9
SHEET NO. 1250
TOTAL SHTS. 1256



COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60833	119+65.57	-556.37	539135.2079	566726.1866
60834	118+94.57	-519.50	539058.3424	566748.3607
60835	125+24.86	520.78	539471.6162	567892.3317
60836	124+54.20	558.30	539394.9548	567915.2139



ADDENDUMS / REVISIONS

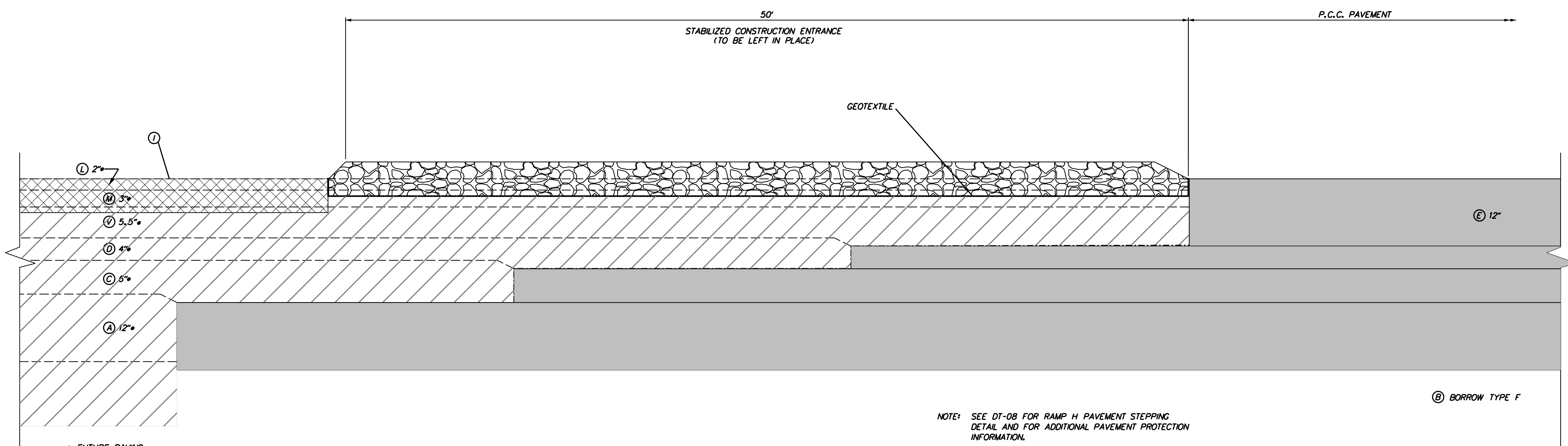


US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: WRC
	CHECKED BY: GTS

SPUR ROAD STOCKPILE PLANS
CONSTRUCTION, GRADING AND
E&S PLAN

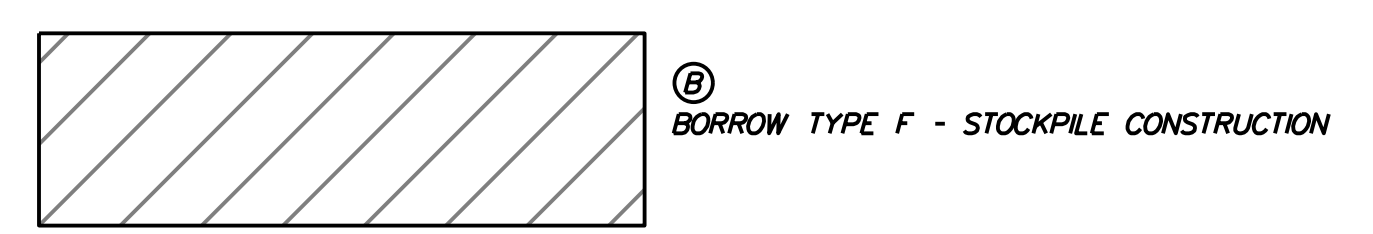
STKP-10
SHEET NO. 1251
TOTAL SHTS. 1256



NOTE: SEE DT-08 FOR RAMP H PAVEMENT STEPPING DETAIL AND FOR ADDITIONAL PAVEMENT PROTECTION INFORMATION.

RAMP H

LEGEND	
•(A)	ITEM *209001, BORROW TYPE A
•(B)	ITEM *209006, BORROW TYPE F
•(C)	ITEM *304502, SOIL CEMENT BASE COURSE
•(D)	ITEM *304501, PERMEABLE TREATED BASE
•(E)	ITEM *501006, PORTLAND CEMENT CONCRETE PAVEMENT
①	ITEM *733002, TOPSOILING, 6" DEPTH ITEM *734013, PERMANENT GRASS SEEDING, DRY GROUND
•(L)	ITEM *401801, WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)
•(M)	ITEM *401810, WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22
•(V)	ITEM *401663, SUPERPAVE BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22



GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL MEASURES TO PROTECT STOCKPILE AREAS AND STORAGE AREAS. ALL AREAS USED BY THE CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE PROJECT. THE STAGING AREA SHALL BE RE-GRADED, TOPSOILED, SEEDED AND MULCHED TO THE SATISFACTION OF THE ENGINEER. ALL COSTS ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH RE-ESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR SHALL CONTACT TOWN OF MIDDLETOWN DEPARTMENT OF PUBLIC WORKS AT 302-378-2211 AT LEAST 48 HOURS IN ADVANCE OF STARTING CONSTRUCTION.
3. THE CONTRACTOR SHALL PROVIDE TEMPORARY SEED AND MULCH FOR ALL AREAS WHERE SOIL IS EXPOSED AND SILT FENCE IS NOT SPECIFIED, IN ACCORDANCE WITH DELDOT REQUIREMENTS.
4. THE CONTRACTOR SHALL MAINTAIN PUBLIC ROADS AND STREETS IN A BROOM SWEEP CONDITION AT ALL TIMES.
5. THE CONTRACTOR SHALL USE ONLY NEW MATERIALS, PARTS, AND PRODUCTS. ALL MATERIALS SHALL BE STORED SO AS TO ASSURE THE PRESERVATION OF THEIR QUALITY AND FITNESS FOR THE INTENDED WORK.
6. ALL UTILITIES PLOTTED ON THE DRAWINGS ARE FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR, PRIOR TO LAYING A RUN OF CONDUIT OR OTHER INVOLVED CONSTRUCTION, SHALL EXCAVATE WITHIN THE ALIGNMENT AT POINTS OF POSSIBLE CONFLICT TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE ENGINEER AND THE UTILITY INVOLVED. THE ENGINEER SHALL DETERMINE THE SOLUTION. EXCAVATING, BACK FILLING AND RESTORATION OF THE TEST HOLES AS REQUIRED FOR UTILITY INVESTIGATIONS SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE UTILITIES AS SHOWN ON THE PLANS.
7. CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE EXECUTION OF THIS CONTRACT
8. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO LOCATE PROPERTY LINES AND RIGHT OF WAY LINES PRIOR TO CONSTRUCTION AND AVOID CONSTRUCTION ACTIVITIES ON PRIVATE PROPERTY AND/OR RIGHTS OF WAYS WHERE SAID CONSTRUCTION IS PROHIBITED.
9. ALL CONSTRUCTION SHALL BE PERFORMED TO THE SATISFACTION OF THE ENGINEER, TOWN OF MIDDLETOWN DEPARTMENT OF PUBLIC WORKS (DPW), DELAWARE DEPARTMENT OF TRANSPORTATION (DELDOT) AND ALL RESPECTIVE UTILITY OWNERS IN ACCORDANCE WITH ALL APPLICABLE CONTRACT DRAWINGS AND SPECIFICATIONS.
10. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY AND PROTECTION IN ACCORDANCE W/APPLICABLE OSHA REGULATION.
11. THE CONTRACTOR SHALL INSTALL THE PROPOSED UTILITIES WITH A MINIMUM OF 1 FT. OF VERTICAL CLEARANCE AND 5' OF HORIZONTAL CLEARANCE FROM OTHER EXISTING AND PROPOSED UTILITIES. IN CASES WHERE THIS MINIMUM HORIZONTAL CLEARANCE IS NOT SHOWN OR FEASIBLE, THE CONTRACTOR MAY INSTALL THE PROPOSED UNDERGROUND ELECTRICAL LINE LESS THAN 5 FT. WITH APPROVAL OF THE TOWN OF MIDDLETOWN.
12. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL MATERIALS FOR APPROVAL TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL MATERIALS ORDERED AND INSTALLED PRIOR TO THE ENGINEER'S REVIEW AND ACCEPTANCE WILL BE AT THE CONTRACTOR'S RISK.
13. THE CONTRACTOR SHALL OPEN ONLY THAT SECTION OF TRENCH OR ACCESS PITS WHICH CAN BE BACKFILLED AND STABILIZED AT THE END OF EACH WORKING DAY. STEEL PLATES SHALL BE USED ON ANY TRENCH OR ACCESS PITS WHICH MUST REMAIN OPEN OVERNIGHT. THIS REQUIREMENT DOES NOT APPLY TO AREAS COMPLETELY CLOSED AND SECURE FROM VEHICULAR OR PEDESTRIAN TRAFFIC.
14. CONTRACTOR SHALL AT ALL TIMES MAINTAIN A SAFE AND DRY EXCAVATION. AT A MINIMUM, THIS INCLUDES SHEETING, SHEET PILES AND SHORING FOR TRENCHES IN ACCORDANCE W/ OSHA REGULATIONS AND SUFFICIENT DEWATERING FOR A DRY SUBGRADE.
15. ROUTINE PERIODIC INSPECTIONS DURING CONSTRUCTION WILL BE PROVIDED BY THE OWNER. THESE INSPECTIONS DO NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATION AND RESPONSIBILITY FOR CONSTRUCTING A UTILITY SYSTEM IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE OWNER.
16. AFTER TESTING IS COMPLETE AND ALL COMPONENTS OF THE UTILITY SYSTEM ARE DEEMED ACCEPTABLE TO THE OWNER, THE CONTRACTOR SHALL SUBMIT THE AS-BUILT DRAWINGS TO THE OWNER. ANY DISCREPANCIES NOTED DURING THE FINAL INSPECTION SHALL BE CORRECTED BY THE CONTRACTOR WITHIN 30 DAYS.
17. THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF CONTRACT DRAWINGS ON WHICH HE SHALL NOTE, IN RED, THE ALIGNMENTS AND INVERTS OF ALL UNDERGROUND UTILITIES THAT ARE INSTALLED OR ENCOUNTERED DURING THE EXECUTION OF THE WORK. ALL DISCREPANCIES BETWEEN THE PLAN LOCATIONS AND ELEVATIONS OF BOTH THE EXISTING AND PROPOSED UTILITIES SHALL BE SHOWN ON THE AS-BUILT DRAWINGS TO BE MAINTAINED BY THE CONTRACTOR IN THE FIELD.
18. ATLANTIC BROADBAND (ABB) MAINTAINS AN UNDERGROUND CABLE WITHIN THE SAME TRENCH AS THE EXISTING MIDDLETOWN-ELECTRIC FACILITIES. FOR ABB'S USE, THE STATE'S CONTRACTOR SHALL INSTALL TWO 2-INCH HDPE FLEX DUCTS IN THE SAME TRENCH, ADJACENT AND TO THE SAME LIMITS AS THE TWO 4" HDPE FLEX DUCTS THAT ARE BEING INSTALLED FOR MIDDLETOWN ELECTRIC. ABB WILL SUPPLY THE 2-INCH FLEX DUCTS AND DELIVER ALL MATERIALS TO THE STATE'S CONTRACTOR'S STAGING AREA WHERE THE STATE'S CONTRACTOR WILL BE RESPONSIBLE TO UNLOAD, STORE AND PROTECT THE MATERIALS UNTIL THEY CAN BE INSTALLED. THE STATE'S CONTRACTOR SHALL CONTACT ABB AT LEAST FOURTEEN (14) CALENDAR DAYS PRIOR TO REQUIRING DELIVERIES AND FIVE (5) CALENDAR DAYS PRIOR TO INSTALLATION FOR ARRANGEMENT OF ABB INSPECTION. THE STATE'S CONTRACTOR SHALL ALSO EXCAVATE THE TRENCH BETWEEN THE ENDS OF THE CONDUIT/FLEX DUCTS AND TO THE LIMITS OF THE ELECTRIC RELOCATION TO ALLOW ABB TO INSTALL UNDERGROUND CABLE. THE CONTRACTOR SHALL FURNISH AND INSTALL BACKFILL FOR THE TRENCH AND STABILIZE ALL DISTRUBED AREAS. ABB CAN BEGIN THE WORK TO INSTALL THEIR NEW FACILITIES UPON COMPLETION OF THE FLEX DUCT BY THE STATE'S CONTRACTOR AND ACCEPTANCE BY ATLANTIC BROADBAND AND COMPLETION OF THE EXCAVATION FOR THE TRENCH BY THE STATE'S CONTRACTOR. ABB WILL THEN COMPLETE THEIR RELOCATION WORK AND ABANDON THE EXISTING FACILITIES WITHIN THEIR RELOCATED LIMITS WITHIN FOURTEEN (14) CALENDAR DAYS. ALL COSTS FOR COORDINATING WITH ABB, TRENCHING, BACKFILL, BACKFILLING, STABILIZATION, AND UNLOADING, STORING, PROTECTING AND INSTALLING THE ABB FLEX DUCT SHALL BE INCLUDED IN THE LUMP SUM COST FOR ITEM 753501 RELOCATING ELECTRIC UTILITY.

EXISTING UNDERGROUND UTILITIES COORDINATION NOTES:

1. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER OR THE ARCHITECT/ENGINEER ASSUMES ANY RESPONSIBILITY WHATEVER IN RESPECT TO ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION SHOWN. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED THAT THE LOCATIONS, SIZE AND TYPE OF MATERIALS OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH UTILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER OF HIS OPERATIONAL PLANS. IN THE EVENT OF AN UNEXPECTED UTILITY INTERFERENCE DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER. ANY SUCH UTILITIES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE.
2. PRIOR TO PERFORMING ANY EXCAVATION GREATER THAN 6 INCHES, THE CONTRACTOR SHALL COORDINATE WITH TOWN OF MIDDLETOWN DEPARTMENT OF PUBLIC WORKS AND ALL PRIVATE UTILITY COMPANIES TO DETERMINE THE LOCATION OF UTILITY LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL ORGANIZATIONS THAT CONTROL EXISTING UTILITIES IN THE CONSTRUCTION AREA OR WOULD BE AFFECTED BY CONSTRUCTION WORK AROUND THE EXISTING UTILITIES.
3. THE CONTRACTOR SHALL NOT START EXCAVATION UNTIL ALL UTILITY LINE LOCATIONS HAVE BEEN STAKED OR OTHERWISE CLEARLY MARKED AND DOCUMENTATION FURNISHED TO THE OWNER. ALL MARKINGS SHALL BE CONSIDERED APPROXIMATE, AND UTILITIES OTHER THAN THOSE SHOWN SHALL BE CONSIDERED TO EXIST.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEFINITE LOCATION OF EACH UTILITY WITHIN THE WORK AREA. CARE SHOULD BE EXERCISED DURING EXCAVATION WORK TO AVOID DAMAGING OR DISRUPTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING (AT CONTRACTOR'S EXPENSE) DAMAGE TO ANY UTILITY CAUSED BY THE CONTRACTOR'S WORK.
5. WHERE EXISTING UNDERGROUND UTILITIES OR OTHER CONSTRUCTION ARE EXPECTED TO BE IN PROXIMITY TO PROPOSED CONSTRUCTION, OR WHEN APPROACHING EXISTING UTILITIES OR STRUCTURES FOR CONNECTIONS, THE CONTRACTOR SHALL DIG TEST PITS TO DETERMINE THE EXACT LOCATION AND INVERTS OF THE EXISTING UTILITY TO ALLOW FOR POSSIBLE CHANGES TO THE PROPOSED UTILITY IN LINE AND/OR GRADE. THE CONTRACTOR SHALL ALSO DIG TEST PITS IN THE LOCATION OF THE PROPOSED CONNECTIONS TO EXISTING UTILITIES AND SHALL MAKE ALL MEASUREMENTS NECESSARY TO ENSURE PROPER CONNECTION. ANY NECESSARY CHANGES IN LINE OR GRADE OF WORK CAUSED BY FAILURE TO TAKE SUCH PRECAUTIONS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
6. WHERE EXISTING UTILITIES CROSS THE TRENCH EXCAVATION, THEY SHALL BE ADEQUATELY SUPPORTED AND PROTECTED FROM DAMAGE DUE TO CONSTRUCTION. ALL METHODS FOR SUPPORTING AND MAINTAINING THESE UTILITIES SHALL BE SUBJECT TO REVIEW BY THE UTILITY OWNER. CARE SHALL BE TAKEN TO ENSURE THAT THE EXISTING UTILITY GRADES AND ALIGNMENT ARE MAINTAINED AND PIPE JOINTS ARE NOT DISTURBED. BACKFILL SHALL BE CAREFULLY PLACED AND TAMPED TO PREVENT DAMAGE OR FUTURE SETTLEMENT. ANY DAMAGE OR MISALIGNMENT OF THE UTILITIES DUE TO CONSTRUCTION OR SETTLEMENT SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
7. ANY UNPROTECTED CABLE (DIRECT BURIED) ENCOUNTERED THAT IS VERIFIED AS NOT ABANDONED IN PLACE SHALL BE PROTECTED. THE UTILITY OWNER MAY DIRECT THE CABLE BE PLACED IN SPLIT DUCT OF APPROPRIATE SIZE AND CONCRETE ENCASED THROUGH THE AREA OF CONSTRUCTION. CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO AVOID HAVING TO CUT AND SPLICE DIRECT BURIED CABLE. THE CONTRACTOR SHALL NOTE SPLIT DUCT PORTIONS ON AS-BUILTS.

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

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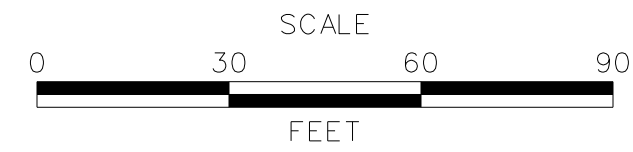
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COUNTY	CHECKED BY:	
NEW CASTLE		

PREPARED BY: CENTURY ENGINEERING, INC.		MER-01
MIDDLETOWN ELECTRIC RELOCATION		SHEET NO. 1253
		TOTAL SHTS. 1256

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ADDENDUMS / REVISIONS



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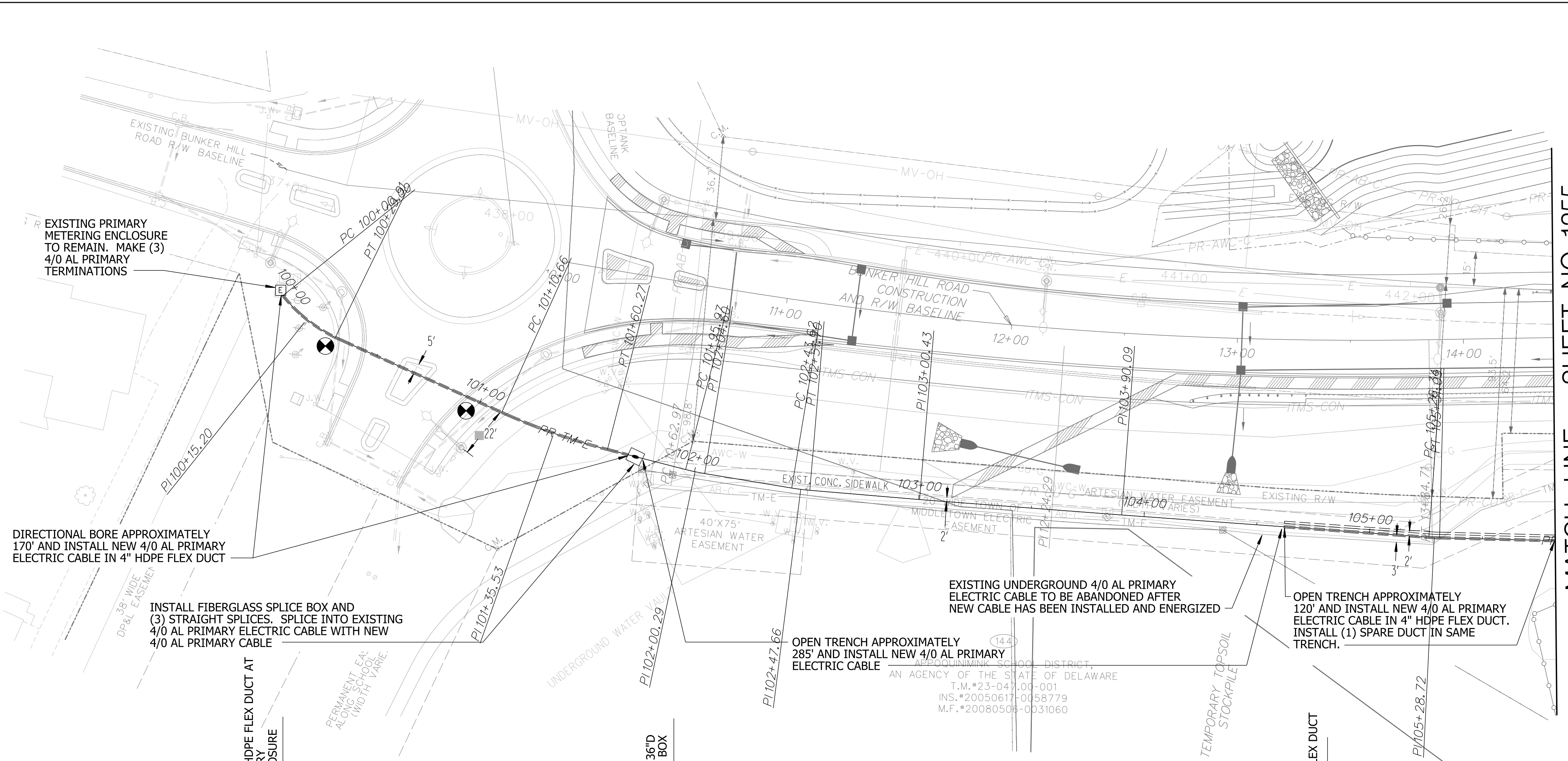
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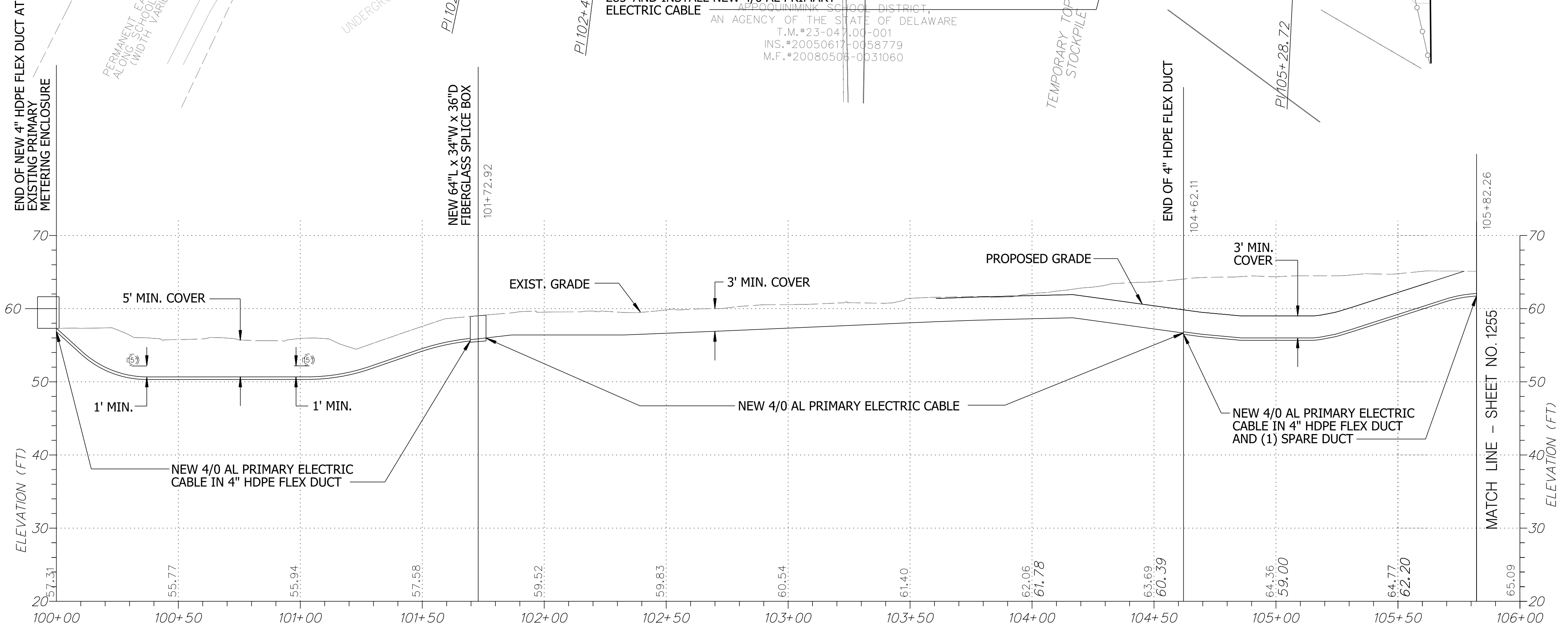
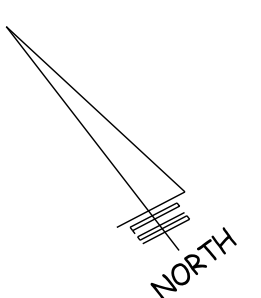
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MIDDLETOWN ELECTRIC RELOCATION

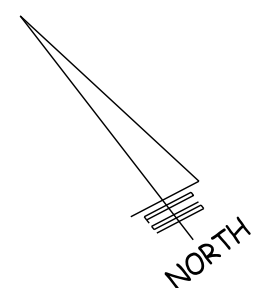
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MATCH LINE - SHEET NO. 1255

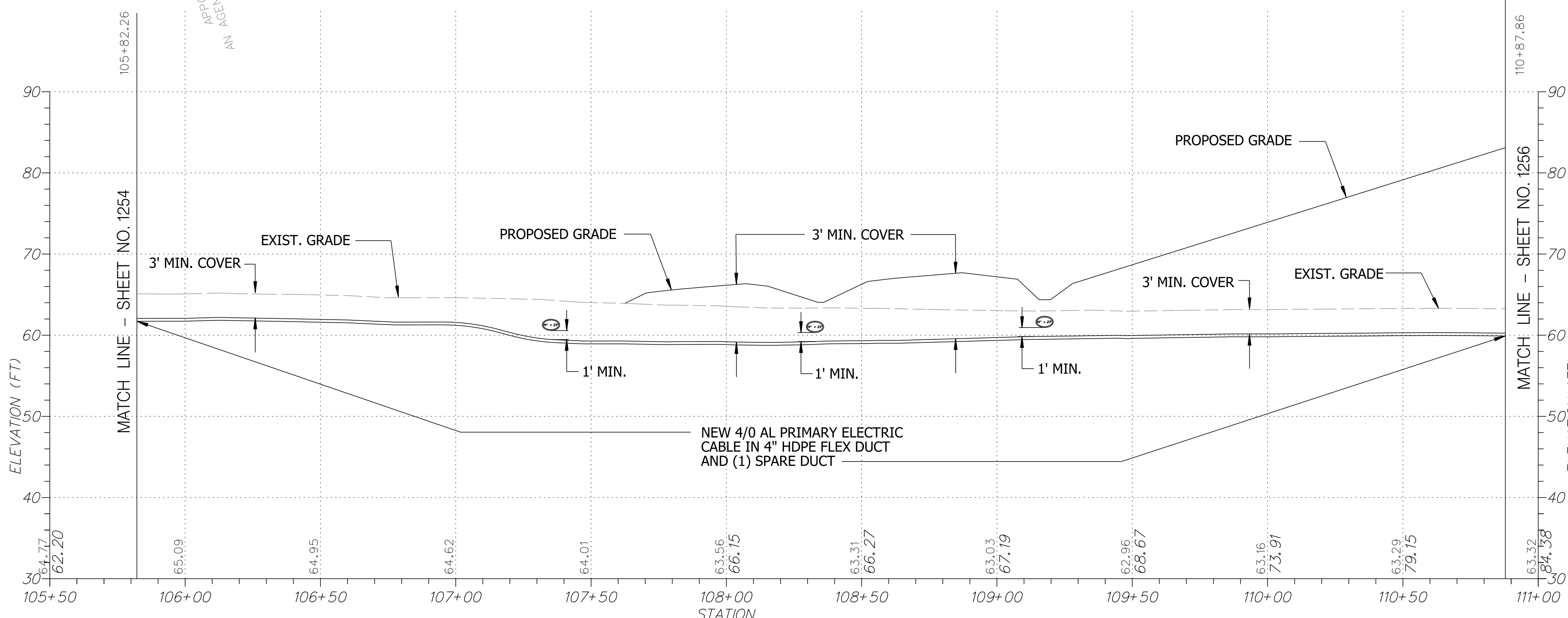
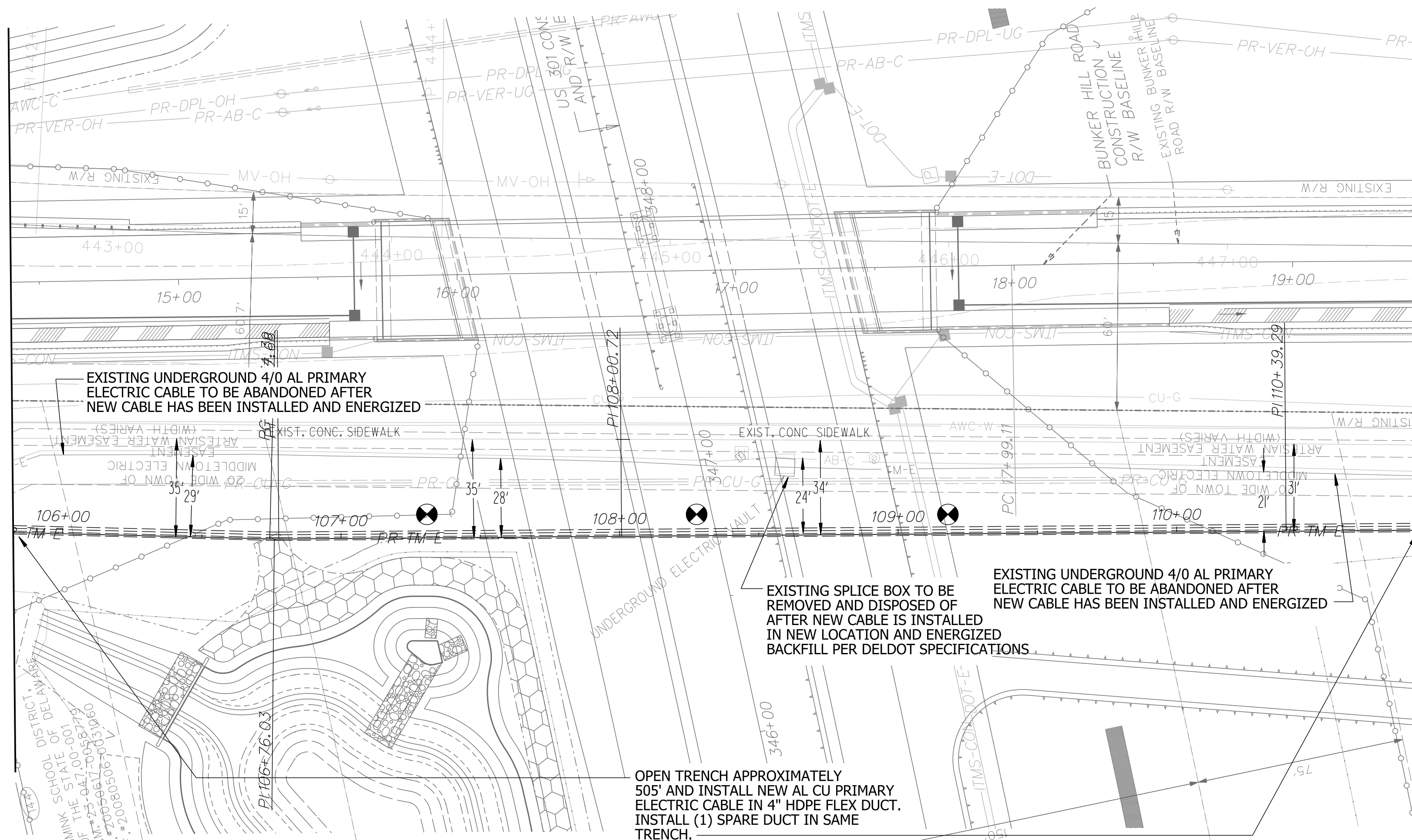


ELECTRIC LEGEND	
SYMBOL	DESCRIPTION
[Square with 'E']	EXISTING PRIMARY METERING ENCLOSURE
[Solid line]	EXISTING 4/0 AL PRIMARY ELECTRIC CABLE
[Dashed line]	PROPOSED 4/0 AL PRIMARY ELECTRIC CABLE
[Line with double dashes]	PROPOSED 4/0 AL PRIMARY ELECTRIC CABLE IN 4" HDPE FLEX DUCT
[Line with triple dashes]	PROPOSED SPARE 4" HDPE FLEX DUCT
[Square]	PROPOSED FIBERGLASS SPLICE BOX
[Circle with 'X']	TEST PIT



MATCH LINE - SHEET NO. 1254

MATCH LINE - SHEET NO. 1256



ELECTRIC LEGEND	
SYMBOL	DESCRIPTION
[E]	EXISTING PRIMARY METERING ENCLOSURE
— TM-E —	EXISTING 4/0 AL PRIMARY ELECTRIC CABLE
— PR-TM-E —	PROPOSED 4/0 AL PRIMARY ELECTRIC CABLE
— PR-TM-E —	PROPOSED 4/0 AL PRIMARY ELECTRIC CABLE IN 4\"/>

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ADDENDUMS / REVISIONS



US301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT
T200911303
COUNTY
NEW CASTLE

BRIDGE NO. X
DESIGNED BY: D.BATTEE
CHECKED BY:

PREPARED BY:
CENTURY ENGINEERING, INC.

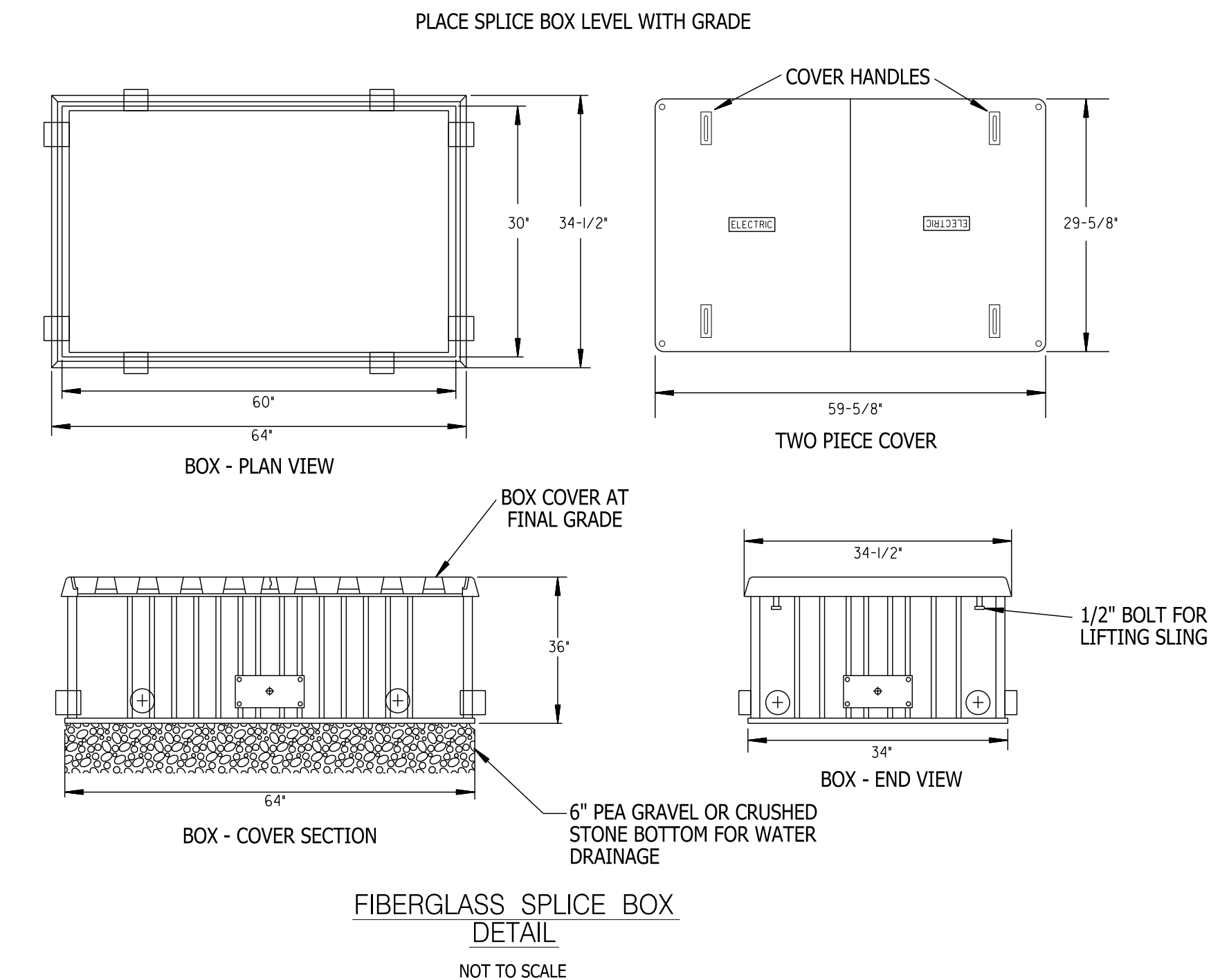
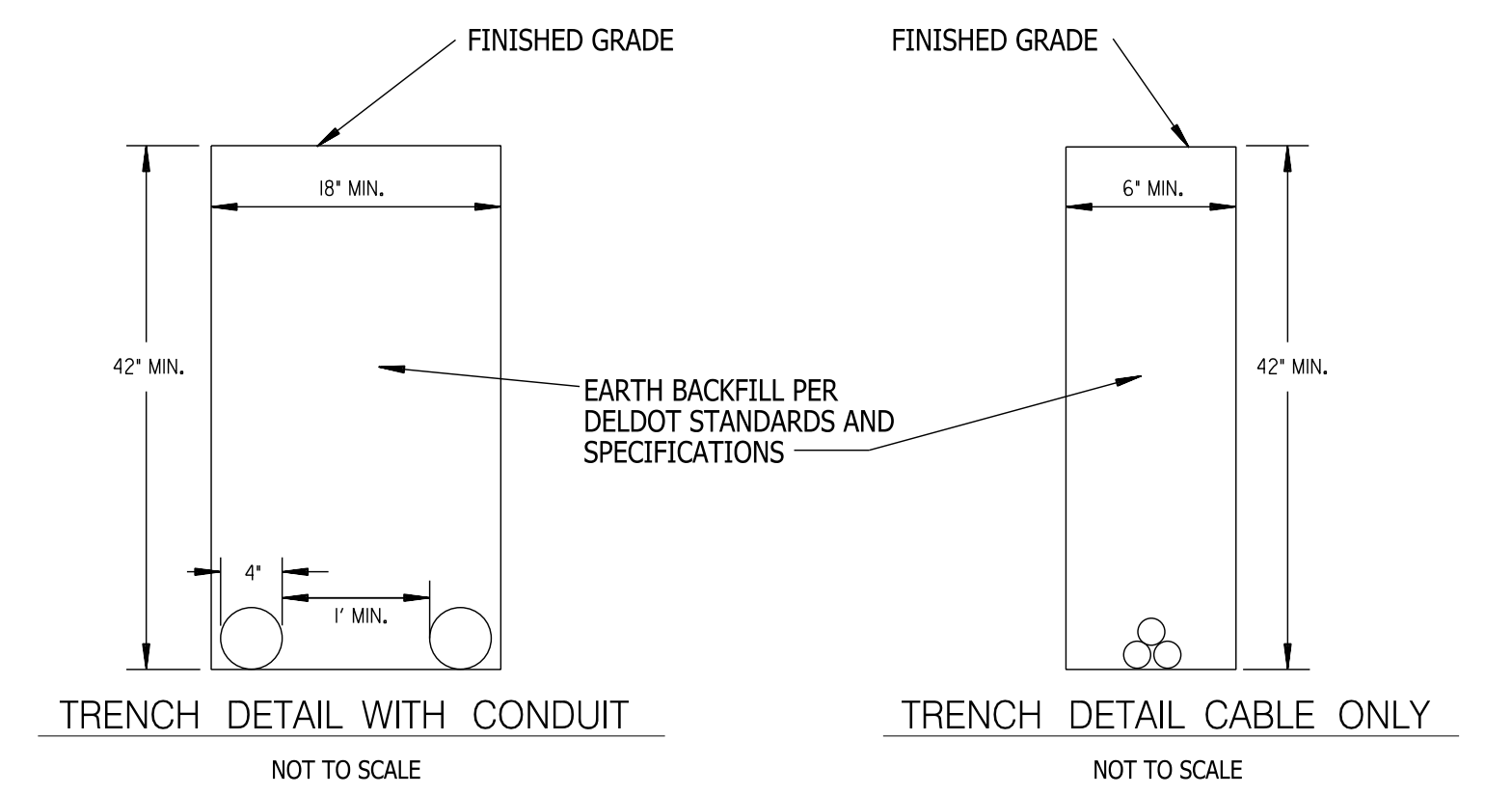
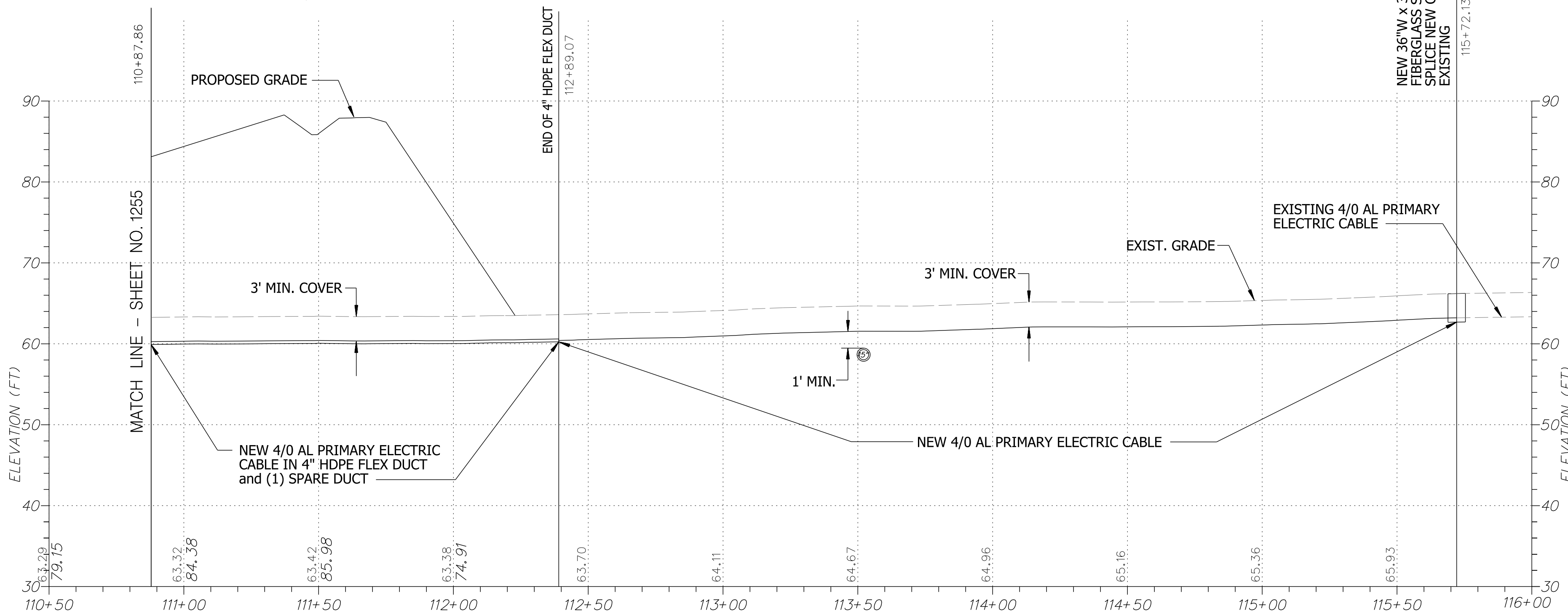
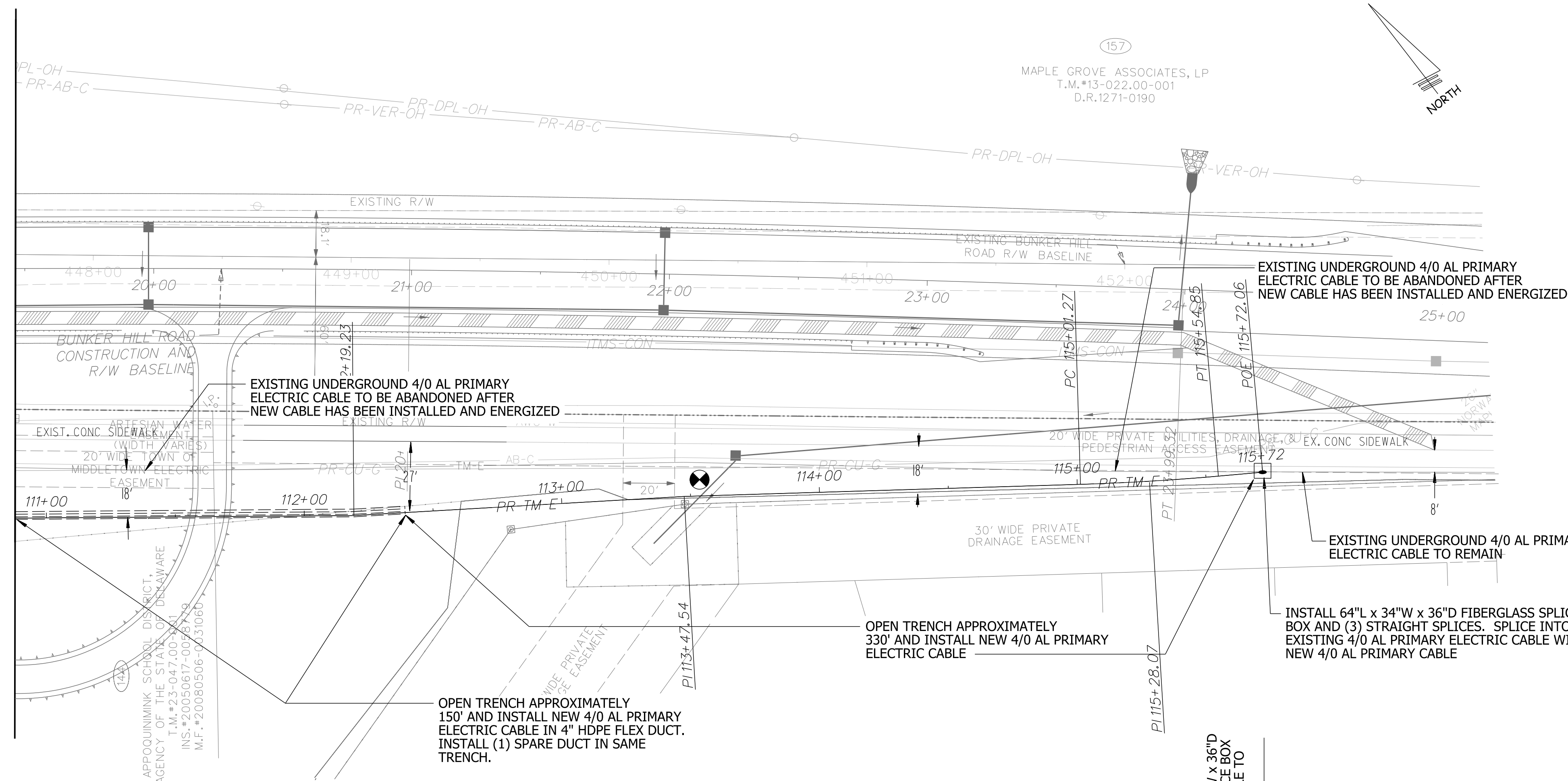
MIDDLETOWN ELECTRIC
RELOCATION

MER-03

SHEET NO.
1255
TOTAL SHTS.
1256

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MATCH LINE - SHEET NO. 1255



ELECTRIC LEGEND	
SYMBOL	DESCRIPTION
[E]	EXISTING PRIMARY METERING ENCLOSURE
— TM-E —	EXISTING 4/0 AL PRIMARY ELECTRIC CABLE
-PR-TM-E-	PROPOSED 4/0 AL PRIMARY ELECTRIC CABLE
-PR-TM-E-	PROPOSED 4/0 AL PRIMARY ELECTRIC CABLE IN 4" HDPE FLEX DUCT
====	PROPOSED SPARE 4" HDPE FLEX DUCT
[]	PROPOSED FIBERGLASS SPLICE BOX
[X]	TEST PIT



ADDENDUMS / REVISIONS



US301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT T200911303	BRIDGE NO. X
COUNTY NEW CASTLE	DESIGNED BY: D. BATTEE
	CHECKED BY:

PREPARED BY: CENTURY ENGINEERING, INC.	MER-04
MIDDLETOWN ELECTRIC RELOCATION	SHEET NO. 1256
	TOTAL SHTS. 1256