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ADDENDA / REVISIONS		NOT TO SCALE	REPLACEMENT OF BR 1-453 ON WALKER SCHOOL ROAD	CONTRACT	BRIDGE NO.	1-453	INDEX OF SHEETS AND ADDENDA AND REVISIONS	SECTION
				T202407101	DESIGNED BY:	R. STEVENS		PD
		COUNTY	CHECKED BY:	M. NAUMAN	SHEET NO.			
		NEW CASTLE			2			

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MANMADE ROADSIDE FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID
BARRIER - DOUBLE-FACED, PERMANENT			
BARRIER - SINGLE-FACED, PERMANENT, TEST LEVEL 4 / TEST LEVEL 5	BARRIER, TYPE "X"		B XXX
BARRIER - HIGH TENSION CABLE (HTCB)			
BARRIER - HTCB END TERMINAL			
BOLLARD - STEEL POLE			
BOLLARD - WOOD POST			
CURB, TYPE 1 AND TYPE 3			
CURB, TYPE 2	CURB, TYPE "X"		
CURB & GUTTER, TYPE 1			C XXX
CURB & GUTTER, TYPE 2			
CURB & GUTTER, TYPE 3	C&G, TYPE "X"		
CURB OPENING - SUMP / ON GRADE			C O
CURB/SW OPENING - ADJACENT CURB			CO SW
CURB/SW OPENING - NON-ADJACENT CURB			
FENCE - CHAINLINK OR STRANDED			F XXX
FENCE - STOCKADE OR SPLIT RAIL			
FLAG POLE	F.P.		
GUARDRAIL - STEEL BEAM, TYPE 1			
GUARDRAIL - STEEL BEAM, TYPE 2			
GUARDRAIL - STEEL BEAM, TYPE 3			
GUARDRAIL - WIRE ROPE			
GUARDRAIL - END ANCHORAGE			OR XXX
GUARDRAIL - END TREATMENT, TYPE 1			
GUARDRAIL - END TREATMENT, TYPE 2			
GUARDRAIL - END TREATMENT, TYPE 3			
IMPACT ATTENUATOR			
LAMP AND POST - RESIDENTIAL	LAMP 		
MAILBOX	MB 	MB 	
PARKING METER AND POST	P.M. 		
PAVEMENT - FLEXIBLE			
PAVEMENT - RIGID			
PILE - BRIDGE			
PILLAR OR MISCELLANEOUS POST			
TRAFFIC SIGN AND POST			
WALL - BRICK OR BLOCK			
WALL - STONE			

DRAINAGE FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID
BIOFILTRATION SWALE			
DITCH OR STREAM (V-SHAPE / TRAPEZOIDAL)			
DIRECTIONAL STREAM FLOW ARROW			
DRAINAGE INLET	C.B. 	D.I. 	DI XXX
DRAINAGE JUNCTION BOX	J.B. 		JB XXX
DRAINAGE MANHOLE			RM XXX
DRAINAGE PIPE AND FLOW ARROW	SIZE/TYPE LABEL 		P XXX
FLARED END SECTION			FES XXX
RIPRAP - AREA FEATURE			RR XXX
RIPRAP - LINEAR FEATURE			
SAFETY END STRUCTURE			SES XXX
UNDERDRAIN			UD XXX
UNDERDRAIN OUTLET			UDO XXX

UTILITY FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
COMMUNICATIONS DISTRIBUTION BOX		
COMMUNICATIONS MANHOLE		
COMMUNICATIONS TEST POINT		
COMMUNICATIONS - UNDERGROUND	COMM(A)	COMM
ELECTRIC - UNDERGROUND	E(A)	E
ELECTRIC MANHOLE		
ELECTRIC METER		
ELECTRIC TRANSFORMER		
GAS - UNDERGROUND	G(A)	G
GAS MANHOLE		
GAS METER	G.M.	
GAS VALVE	G.V.	
GAS PUMP - SERVICE STATION	G.P.	
IRRIGATION - UNDERGROUND	IR(A)	IR
ITMS - UNDERGROUND	ITMS(A)	ITMS
LIGHTING - UNDERGROUND	LI(A)	LI
LUMINAIRE - POLE MOUNTED		
MANHOLE - UNDETERMINED OWNER		
RAILROAD TRACKS		
SANITARY - UNDERGROUND	S(A)	S
SANITARY SEWER MANHOLE		
SANITARY SEWER VALVE	S.V.	
SANITARY SEWER CLEANOUT OR VENT	S.C.O.	
SEPTIC DRAIN FIELD	S.D.F.	
SIGNALIZATION - UNDERGROUND	SIG(A)	SIG
SOIL BORING LOCATION		
TELEPHONE BOOTH		
TRAFFIC - CONDUIT JUNCTION WELL	J.W.	
TRAFFIC - LIGHT POLE AND BASE		
TRAFFIC - PEDESTRIAN POLE & BASE		
TRAFFIC - SIGNAL CABINET & BASE		
TRAFFIC - SIGNAL POLE AND BASE		
UTILITY BOX		
UTILITY MARKER		
UTILITY POLE GUY WIRE ANCHOR		
UTILITY POLE		
UTILITY TEST HOLE LOCATION		
WATER - UNDERGROUND	W(A)	W
WATER - FIRE HYDRANT	F.H.	F.H.
WATER METER	W.M.	
WATER VALVE	W.V.	W.V.
WELL HEAD	WELL	

PAVEMENT SECTION(S)	
VARIABLE DEPTH MILL, REPLACE WITH: 2" SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	
2" SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE) 3" SUPERPAVE TYPE B, PG 64-22 8" GABC	

NATURAL ROADSIDE FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
HEDGEROW OR THICKET		
MARSH BOUNDARY LINE		
TREE - CONIFEROUS		
TREE - DECIDUOUS		
TREE STUMP		
SHRUBBERY		
WETLAND BOUNDARY - DELINEATED	WL	
WOODS LINE BOUNDARY		

RIGHT-OF-WAY FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
DENIAL OF ACCESS	DA	DA
EASEMENT - OTHERS	EASEMENT TYPE	
PERMANENT EASEMENT	PE	PE
PROPERTY LINE		
PROPERTY MARKER - CONCRETE	C.M.	
PROPERTY MARKER - IRON PIPE	I.P.	
RIGHT-OF-WAY BASELINE	100+00	100+00
RIGHT-OF-WAY LINE	R/W	R/W
RIGHT-OF-WAY BY PE	R/W-PE	
RIGHT-OF-WAY & DENIAL OF ACCESS	R/W-DA	R/W-DA
RIGHT-TO-ENTER		RTE
TEMPORARY CONSTRUCTION EASEMENT		TCE

SURVEY CONTROL & MONUMENTATION	
FEATURE DESCRIPTION	EXISTING
POINT OF CURVATURE OR TANGENCY	
POINT OF INTERSECTING TANGENTS	
SURVEY BENCHMARK LOCATION	B.M.
SURVEY NGS POINT LOCATION	
SURVEY TIE POINT LOCATION	T.P.
SURVEY TRAVERSE POINT	

MISCELLANEOUS FEATURES	
FEATURE DESCRIPTION	PROPOSED
BRICK PATTERNED SURFACE	
BUTT JOINT	
CLEAR ZONE	CZ
CONSTRUCTION BASELINE	100+00
LATERAL OFFSET	LO
LIMIT OF CONSTRUCTION	LOC
PAVEMENT PATCH	
PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH	
P.C.C. SIDEWALK - 4"	
P.C.C. SIDEWALK - 6" (USE 8" DEPTH FOR CHANNELIZATION ISLANDS.)	
STREAM REGRADING - F BORROW AND 6" DE TOP SOIL	

IDENTIFIERS	
FEATURE DESCRIPTION	ID
ABANDON BY CONTRACTOR	AB C
ABANDON BY OTHERS	AB O
ADJUST BY CONTRACTOR	A C
ADJUST BY OTHERS	A O
BEST MANAGEMENT PRACTICE	BMP XXX
BUS STOP PAD / TYPE	BSP X
BUS STOP WITH SHELTER PAD / TYPE	BSP X
CONCRETE SAFETY BARRIER	B XXX
CONVERT TO JUNCTION BOX	CB XXX
CONVERT TO DRAINAGE MANHOLE	CMH XXX
DO NOT DISTURB	DND
ENERGY DISSIPATOR	ED XXX
FILL WITH FLOWABLE FILL	FF C
LANDSCAPE PLANTINGS	LS XXX
PEDESTRIAN CONNECTION / TYPE	PC X
PEDESTRIAN CONNECTION / TYPE WITHOUT DETECTABLE WARNING SYSTEM	PC-N XXX
RELOCATE BY CONTRACTOR	RL C
RELOCATE BY OTHERS	RL O
RELOCATE BY PROPERTY OWNER	RL PO
REMOVE BY CONTRACTOR	RM C
REMOVE BY OTHERS	RM O
REMOVE BY TRAFFIC CONTRACTOR	RM TC
RIGHT-OF-WAY MONUMENT	M XXX

ADDENDA / REVISIONS

NOT TO SCALE

REPLACEMENT OF
BR 1-453 ON
WALKER SCHOOL ROAD

CONTRACT	BRIDGE NO.	1-453
T202407101	DESIGNED BY:	R. STEVENS
COUNTY	CHECKED BY:	M. NAUMAN
NEW CASTLE		

LEGEND

SECTION
SHEET NO.
3

GENERAL NOTES

- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED 2025 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2025.
- ELECTRONIC DESIGN DATA FILES THAT WILL BE MADE AVAILABLE TO THE BIDDERS INCLUDE:

()	NONE
(X)	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	DESIGN FILE, IN .DGN FILE FORMAT, THAT CONTAINS 3D TRIANGLES REPRESENTING THE EXISTING SURFACE.
()	DESIGN FILE, IN .DGN FILE FORMAT, THAT CONTAINS 3D FEATURE LINES FOR THE PROPOSED DESIGN. 3D FEATURE LINES ARE FOR THE PROPOSED TOP SURFACE ELEVATION ONLY.

NOTE: THE DOCUMENT ENTITLED "ELECTRONIC FILE SHARING RELEASE" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

NOTE: THERE MAY BE SOME AREAS OF THE PROJECT NOT INCLUDED IN THE ELECTRONIC DESIGN DATA FILE(S). IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE DESIGN DATA FILE AND DETERMINE THE LIMITS OF THE PROJECT INCLUDED.

- PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR, INCLUDE:

(X)	CROSS SECTIONS
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PROJECT NOTES

SECTION 100

- ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR WILL CONTACT THE DELAWARE TMC AT 302-659-4600 PRIOR TO ANY UNMANNED AERIAL VEHICLE (UAV) FLIGHTS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE FOLLOWING INFORMATION: THE REGISTRATION NUMBER OF THE UAV, THE FLIGHT TIME, LOCATION OF THE FLIGHT, THE PILOT'S NAME AND THE PILOT'S CONTACT NUMBER DURING THE FLIGHT.

SECTION 200

- ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - EXISTING BRIDGE (TWO 5'X4' CMPAS)
 - SACKED RIPRAP RETAINING WALLS (TWO AT EXISTING INLET, THREE AT EXISTING OUTLET)
 - RETAINING WALL AT 147+00 STA. ADJACENT TO NW UPSTREAM EXISTING RIPRAP
 - EXISTING NORTHEASTERN RIPRAP ON UPSTREAM END OF CROSSING
 - PIPES NOT WITHIN THE LIMITS OF 202000 - EXCAVATION AND EMBANKMENT OR 207002 - PIPE, CULVERT, AND STRUCTURE EXCAVATION
- UNLESS OTHERWISE NOTED AS DO NOT DISTURB OR ADJUST BY CONTRACTOR/OTHERS, ALL EXISTING FEATURES, INCLUDING TREES, WITHIN THE PROPOSED LOC SHALL BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER THE RESPECTIVE BID ITEM. REMOVAL OF EXISTING STORM DRAIN PIPE SHALL BE PAID UNDER ITEM 202000 UNLESS NOTED WITH A FLOWABLE FILL IDENTIFIER, REMOVAL OF TREES AND SHRUBS SHALL BE PAID FOR UNDER 201000, AND REMOVAL OF ADDITIONAL EXISTING FEATURES SHALL BE PAID FOR UNDER ITEM 211000 AS NOTED IN SECTION 200 OF THE PROJECT NOTES.

SECTION 600

- STATION AND ELEVATION DATA GIVEN FOR DRAINAGE STRUCTURES ARE TO BE APPLIED TO THE CENTER OF THE GRATE FOR INLETS AND TO THE CENTER OF THE STRUCTURE FOR JUNCTION BOXES AND MANHOLES.
- PORTLAND CEMENT CONCRETE:
 - USE PORTLAND CEMENT CONCRETE FOR PRECAST ELEMENTS AS FOLLOWS:
 - (f'c = 28-DAY COMPRESSIVE STRENGTH)
 - PRECAST - WINGWALLS, CULVERT, HEADWALLS, TOEWALLS, FOOTERS (f'c = 5 ksi)
 - CHAMFER ALL EXPOSED EDGES 3/4" X 3/4" UNLESS OTHERWISE NOTED.
- BAR REINFORCEMENT:
 - REINFORCING STEEL SHALL CONFORM TO AASHTO M31 (ASTM A615), GRADE 60.
 - REINFORCING STEEL SHALL HAVE A 3" CLEAR COVER IF CAST AGAINST EARTH OR A 2" CLEAR COVER ELSEWHERE, UNLESS OTHERWISE SPECIFIED ON THE PLANS
 - ALL REINFORCING STEEL SHALL BE PROTECTED WITH FUSION BONDED EPOXY. EPOXY COATED REINFORCING STEEL SHALL CONFORM TO ASTM A775.
 - GALVANIZED REINFORCING STEEL MAY BE SUBSTITUTED FOR EPOXY-COATED REINFORCING STEEL AT NO ADDITIONAL COST TO DELDOT WITH APPROVAL OF THE BRIDGE DESIGN ENGINEER.
 - WELDING OF REINFORCEMENT DURING FABRICATION OR CONSTRUCTION IS NOT PERMITTED UNLESS SPECIFIED.
- THE FACTORED BEARING RESISTANCE OF SOIL BENEATH PRECAST ELEMENTS IS 7.50 ksf.

SECTION 700

- ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT.
- THE CONTRACTOR SHALL DELIVER ALL EXCESS MILLED MATERIAL TO THE DELAWARE DEPARTMENT OF TRANSPORTATION'S MIDDLETOWN MAINTENANCE YARD. THE MATERIAL SHALL BE NEATLY STOCKPILED AT THE YARD. COSTS FOR THIS WORK SHALL BE INCIDENTAL TO THE MILLING ITEM UTILIZED FOR PAYMENT ON THE CONTRACT.

SECTION 900

- THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION. UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOI IS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S STORMWATER SECTION. A COPY OF THE GENERAL PERMIT OR THE NOI CAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.

MISCELLANEOUS

- THE CONTRACTOR SHALL NOTIFY DART FIRST STATE AT DOT_DETOURS@DELAWARE.GOV AT LEAST 14 DAYS PRIOR TO THE START OF ANY DETOURS OR CONSTRUCTION, AND DOT_DTC_PROJECTDEVELOPMENT@DELAWARE.GOV AT SUCH TIME THE FACILITY IS COMPLETED AND OPERABLE FOR TRANSIT OPERATIONS. FOR EMERGENCY DETOUR INFORMATION ONLY, PLEASE CONTACT MONROE GARAGE: 302-576-6208 (NEW CASTLE COUNTY), DOVER GARAGE: 302-760-2892 EXT 2894 (KENT COUNTY), CONTROL CENTER: 302-576-6177 (SUSSEX COUNTY)
- ANY STAGING AND/OR STOCKPILE AREA(S) OUTSIDE THE PROJECT'S LIMIT OF CONSTRUCTION (LOC) THAT INDIVIDUALLY OR CUMULATIVELY ARE LARGER THAN 10,000 SQUARE FEET, MUST BE APPROVED BY DELDOT'S ARCHAEOLOGIST. CONTACT THE CONSTRUCTION AREA ENGINEER WHO WILL COORDINATE WITH DELDOT'S ARCHAEOLOGIST.

WITHIN 30 DAYS, DELDOT WILL:

- APPROVE THE USE OF THE PROPOSED STAGING AND STOCKPILE AREA(S);
 - REJECT THE REQUEST; OR
 - PERFORM AN ARCHAEOLOGICAL SURVEY TO DETERMINE WHETHER TO APPROVE OR REJECT THE REQUEST, WHICH MAY TAKE UP TO 3 MONTHS. IF AN ARCHAEOLOGICAL SURVEY IS NECESSARY, DELDOT OR A CONSULTANT ON ITS BEHALF WILL UNDERTAKE THE SURVEY.
- DESIGN SPECIFICATIONS:
 - (A) DELDOT BRIDGE DESIGN MANUAL, 2024 EDITION
 - (B) AASHTO LRFD BRIDGE SPECIFICATIONS, 2020, 9TH EDITION, CUSTOMARY U.S. UNITS.

15. HYDRAULIC DATA:			
DRAINAGE AREA:	0.62 sq. miles	DESIGN FREQ.:	25-YEAR
DESIGN DISCHARGE:	367.9 cfs	100-YEAR DISCHARGE:	636 cfs
EXISTING (DESIGN STORM) WSE:	8.56 ft	PROPOSED (DESIGN STORM) WSE:	8.20 ft
EXISTING (DESIGN STORM) VELOCITY:	8.47 fps	PROPOSED (DESIGN STORM) VELOCITY:	9.02 fps
EXISTING 100-YEAR WSE:	9.56 ft	PROPOSED 100-YEAR WSE:	9.29 ft
EXISTING 100-YEAR VELOCITY:	8.25 fps	PROPOSED 100-YEAR VELOCITY:	9.18 fps
EXISTING WATERWAY OPENING:	29.4 sq. ft	PROPOSED WATERWAY OPENING:	33 sq. ft.

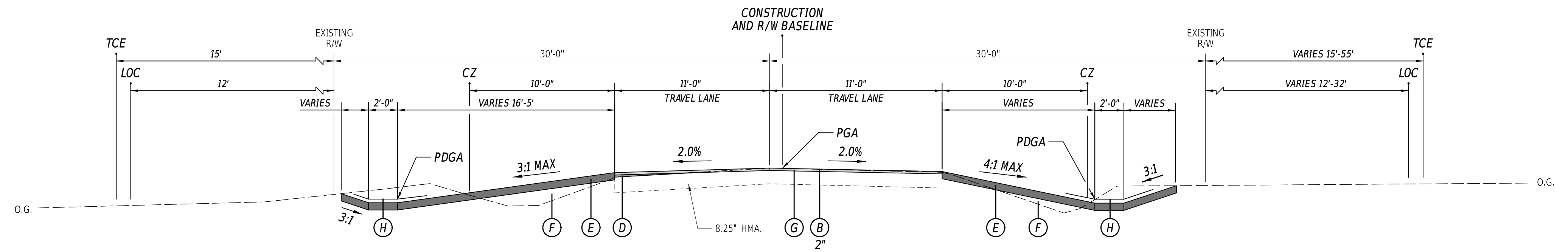
16. SCOUR ANALYSIS:	
SCOUR DESIGN FREQUENCY:	100-YEAR
SCOUR DESIGN FLOOD DISCHARGE:	636 CFS
SCOUR DESIGN FLOOD VELOCITY:	9.18 FPS
WATER SURFACE ELEVATION:	9.29 FT

SCOUR COUNTERMEASURES HAVE BEEN DESIGNED FOR THE SCOUR DESIGN FLOOD IN ACCORDANCE WITH HEC 14 - HYDRAULIC DESIGN OF ENERGY DISSIPATORS FOR CULVERTS AND CHANNELS.

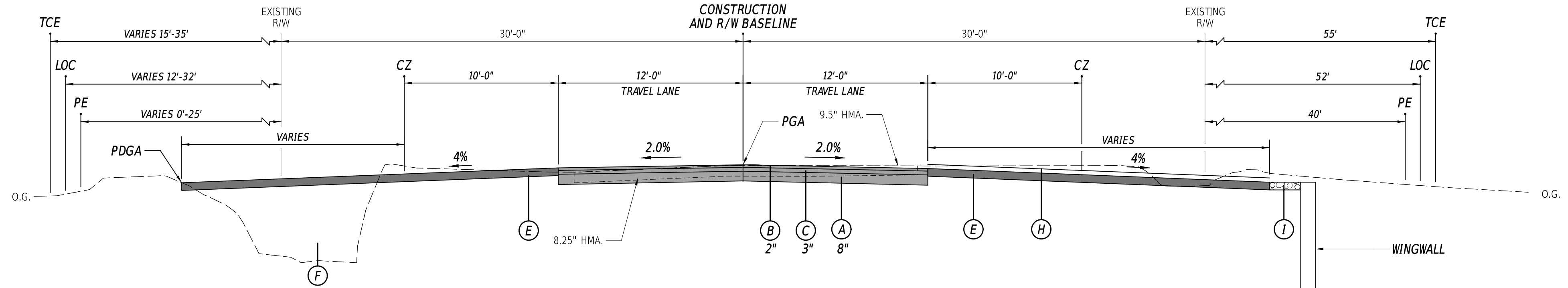
- THE DETOUR SHOWN IN THESE PLANS IS SUITABLE FOR CAR, TRUCK, AND SMALL FARM VEHICLE TRAFFIC. PRIOR TO AND AT THE COMPLETION OF THE BRIDGE REPLACEMENT, ALL OF THE ROADS THAT COMPRISE THE DETOUR ROUTES SHALL BE EVALUATED FOR THEIR CONDITION BY THE ENGINEER. ANY NOTED WEAR WHICH MAY BE CAUSED BY THE DETOUR TRAFFIC SHALL BE REPAIRED AT THE ENGINEER'S DISCRETION. PATCHING ITEMS FOR TYPE 'B' AND 'C' SUPERPAVE (ITEMS 401030 AND 401029), HAVE BEEN INCLUDED IN THIS CONTRACT FOR THAT PURPOSE. ANY SAWCUTTING FOR PATCHING THE DETOUR, WILL BE INCIDENTAL TO ITEMS 401029 AND 401030.
- DELMARVA POWER CANNOT AND WILL NOT TAKE AN OUTAGE ON AERIAL ELECTRIC FACILITIES.

EARTHWORK SUMMARY	
EXCAVATION	
EXCAVATION FROM CROSS SECTIONS	784 C.Y.
ROCK EXCAVATION FOR ROADWAY AND TRENCHES	0 C.Y.
TOPSOIL STRIPPING	142 C.Y.
TOTAL EXCAVATION	784 C.Y.
EXCAVATION AVAILABLE FOR EMBANKMENT	
EXCAVATION MEETING BORROW TYPE 'A'	0 C.Y.
EXCAVATION MEETING BORROW TYPE 'F'	364 C.Y.
EXCAVATION MEETING TOPSOIL	0 C.Y.
EMBANKMENT REQUIREMENTS	
BORROW TYPE 'A' REQUIRED (INCLUDING UNDERCUT)	0 C.Y.
BORROW TYPE 'F' REQUIRED	60 C.Y.
TOPSOIL REQUIRED	318 C.Y.
MATERIAL BALANCE ("+"= EXCESS, "-"= NEED)	
BORROW TYPE 'A'	0 C.Y.
BORROW TYPE 'F'	304 C.Y.
TOPSOIL	-318 C.Y.
UNSUITABLE MATERIAL	344 C.Y.
NOTES:	
1) THE VALUES LISTED IN THE EARTHWORK SUMMARY ARE APPROXIMATE AND ARE NOT TO BE USED AS A BASIS OF PAYMENT. THE EARTHWORK SUMMARY IS CONSIDERED FOR INFORMATIONAL PURPOSES ONLY.	
2) OTHER SOURCES OF EXCAVATION MAY INCLUDE PIPE TRENCH EXCAVATION, STRUCTURE EXCAVATION, UNDERCUT EXCAVATION, STORMWATER MANAGEMENT POND EXCAVATION, ENVIRONMENTAL SITE EXCAVATION, MAINTENANCE OF TRAFFIC EXCAVATION, ETC.	
3) UNSUITABLE MATERIALS INCLUDE UNDERCUT SOILS, BITUMINOUS PAVEMENT, ETC.	

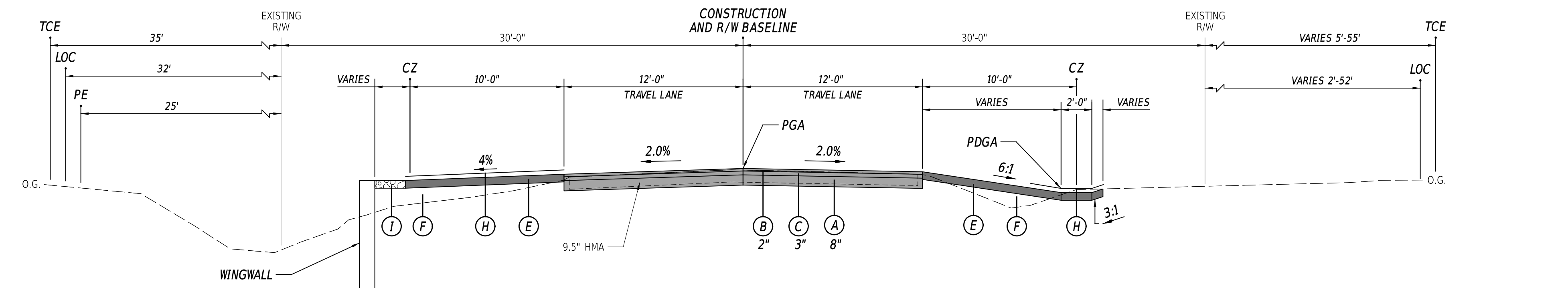
ADDENDA / REVISIONS		NOT TO SCALE	REPLACEMENT OF BR 1-453 ON WALKER SCHOOL ROAD	CONTRACT	BRIDGE NO.	1-453	NOTES	SECTION
				T202407101	DESIGNED BY:	R. STEVENS		4
				COUNTY	CHECKED BY:	M. NAUMAN		
				NEW CASTLE				



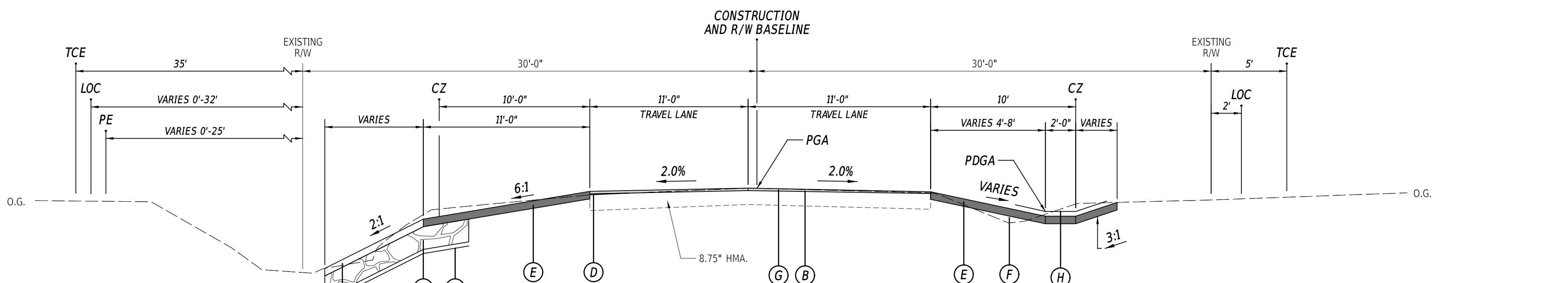
WALKER SCHOOL ROAD
STATION 148+80 TO STATION 149+50



WALKER SCHOOL ROAD
STATION 148+00 TO STATION 148+80



WALKER SCHOOL ROAD
STATION 147+72 TO STATION 148+00



WALKER SCHOOL ROAD
STATION 147+15 TO STATION 147+72

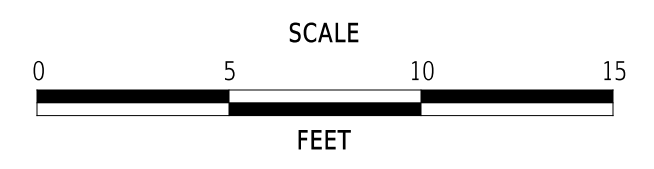
LEGEND

- (A) ITEM 301001 - GABC
- (B) ITEM 401005 - SUPERPAVE, TYPE C, 9.5 mm, PG 64-22 (CARBONATE STONE)
- (C) ITEM 401014 - SUPERPAVE, TYPE B, PG 64-22
- (D) ITEM 401036 - SUPERPAVE TYPE C, 9.5 mm, PG 64-22, WEDGE
- (E) ITEM 908004 - TOPSOIL, 6" DEPTH
ITEM 908019 - PERMANENT GRASS SEEDING, STREAMBANK
ITEM 908026* - EROSION CONTROL MULCH
- (F) ITEM 209006 - BORROW, TYPE F
- (G) ITEM 760012 - PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT, VARIABLE DEPTH
- (H) ITEM 908020* - EROSION CONTROL BLANKET MULCH (8' MIN. WIDTH)
- (I) ITEM 302002 - DELAWARE NO. 3 STONE
- (J) ITEM 707010 - RIPRAP, R-4
- (K) ITEM 708003 - GEOTEXTILES, RIPRAP
- (L) ITEM 707021 - CHANNEL BED FILL

MATERIAL TYPE	BINDER GRADE	LIFT THICKNESS (IN)	
		MINIMUM	MAXIMUM
TYPE C (4.75 MM MIX)	ALL	0.5	1.0
TYPE C (9.5 MM MIX)	ALL	1.25	2.0
TYPE C (12.5 MM MIX)	ALL	1.5	2.0
TYPE B (19 MM MIX)	76-22, 70-22	2.25	4.0
TYPE B (19 MM MIX)	64-22	2.25	6.0
TYPE BCBC (25 MM MIX)	64-22	3.0	6.0
GABC	-	4.0	8.0

- *NOTES:**
- ITEM 908020 - EROSION CONTROL BLANKET MULCH SHALL BE PLACED ALONG BOTTOM OF SWALE AND UP TO 2 FEET ON THE ADJACENT SIDE SLOPES.
 - ITEM 908026 - EROSION CONTROL MULCH SHALL BE PLACED IN ALL PERMANENT GRASS SEEDING AREAS OUTSIDE OF EROSION CONTROL BLANKET MULCH FOOTPRINT.

ADDENDA / REVISIONS



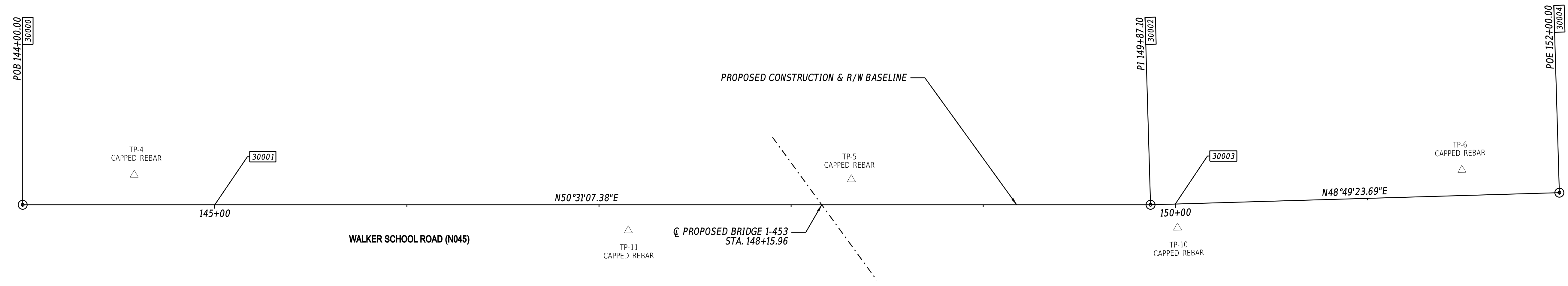
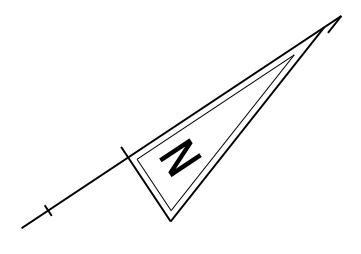
**REPLACEMENT OF
BR 1-453 ON
WALKER SCHOOL ROAD**

CONTRACT	BRIDGE NO.	1-453
T202407101	DESIGNED BY:	R. STEVENS
COUNTY	CHECKED BY:	M. NAUMAN
NEW CASTLE		

TYPICAL SECTIONS

SECTION
PD
SHEET NO.
5

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CONSTRUCTION ALIGNMENT CONTROL

POINT NO.	STATION	OFFSET	NORTHING	EASTING
30000	144+00.00	0.00'	502388.1301	605365.9434
30001	145+00.00	0.00'	502451.7127	605443.1267
30002	149+87.10	0.00'	502761.4261	605819.0891
30003	150+00.00	0.00'	502769.9167	605828.7959
30004	152+00.00	0.00'	502901.5936	605979.3323

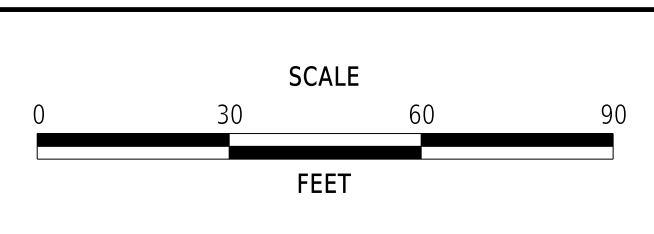
HORIZONTAL / VERTICAL CONTROL DATA

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEV.
TP 4	144+58.07	-15.56	502437.0620	605400.8720	11.84
TP 5	148+31.36	-13.19	502672.5780	605690.4900	7.42
TP 6	151+49.65	-13.27	502878.4300	605932.7030	9.79
TP 10	150+00.78	12.35	502761.1350	605837.5100	7.68
TP 11	147+15.25	13.38	502578.2510	605617.7670	7.29

DATUM REFERENCE:
 HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD 83 / 2011 / EPOCH 2010.00).
 VERTICAL - THIS PROJECT IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 BASED ON MODELED GEOID 12A).

27-OCT-2025 17:04 \\ssm-delo\pdpw21\CS_pof_work_dir\6342\6587_36\HW01_R05F_T202407101_DOT.dgn

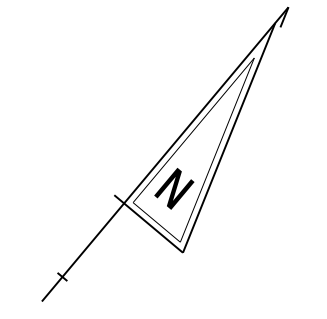
ADDENDA / REVISIONS



**REPLACEMENT OF
 BR 1-453 ON
 WALKER SCHOOL ROAD**

CONTRACT	BRIDGE NO.	1-453
T202407101	DESIGNED BY:	R. STEVENS
COUNTY	CHECKED BY:	M. NAUMAN
NEW CASTLE		

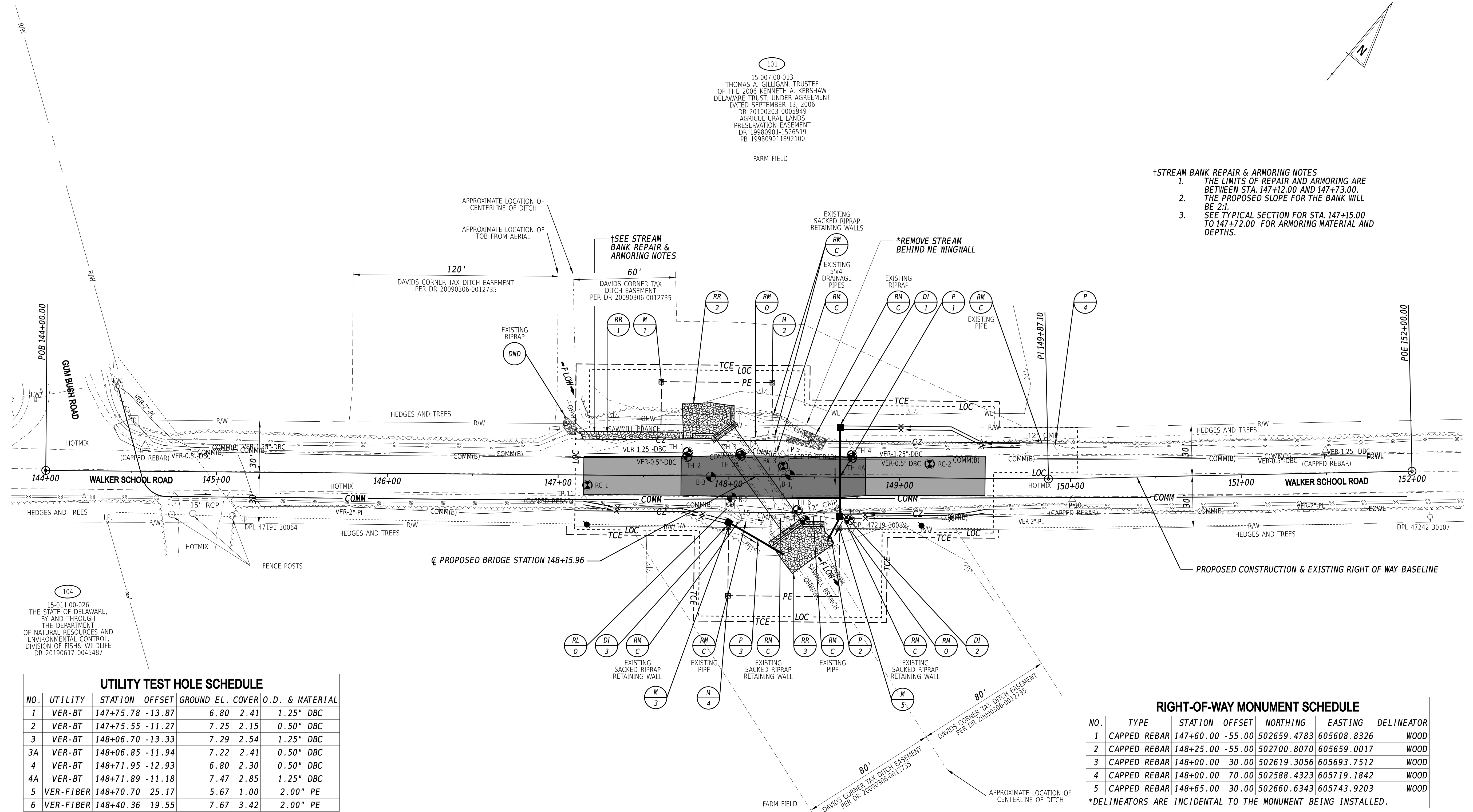
HORIZONTAL AND VERTICAL CONTROL	SECTION
	PD
	SHEET NO.
	6



101
15-007.00-013
THOMAS A. GILLIGAN, TRUSTEE
OF THE 2006 KENNETH A. KERSHAW
DELAWARE TRUST, UNDER AGREEMENT
DATED SEPTEMBER 13, 2006
DR 20100203 0005949
AGRICULTURAL LANDS
PRESERVATION EASEMENT
DR 19980901-1526519
PB 199809011892100

FARM FIELD

- †STREAM BANK REPAIR & ARMORING NOTES
1. THE LIMITS OF REPAIR AND ARMORING ARE BETWEEN STA. 147+12.00 AND 147+73.00.
 2. THE PROPOSED SLOPE FOR THE BANK WILL BE 2:1.
 3. SEE TYPICAL SECTION FOR STA. 147+15.00 TO 147+72.00 FOR ARMORING MATERIAL AND DEPTHS.



104
15-011.00-026
THE STATE OF DELAWARE,
BY AND THROUGH
THE DEPARTMENT
OF NATURAL RESOURCES AND
ENVIRONMENTAL CONTROL
DIVISION OF FISH & WILDLIFE
DR 20190617 0045467

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GROUND EL.	COVER	O.D. & MATERIAL
1	VER-BT	147+75.78	-13.87	6.80	2.41	1.25" DBC
2	VER-BT	147+75.55	-11.27	7.25	2.15	0.50" DBC
3	VER-BT	148+06.70	-13.33	7.29	2.54	1.25" DBC
3A	VER-BT	148+06.85	-11.94	7.22	2.41	0.50" DBC
4	VER-BT	148+71.95	-12.93	6.80	2.30	0.50" DBC
4A	VER-BT	148+71.89	-11.18	7.47	2.85	1.25" DBC
5	VER-FIBER	148+70.70	25.17	5.67	1.00	2.00" PE
6	VER-FIBER	148+40.36	19.55	7.67	3.42	2.00" PE

SOIL BORING SCHEDULE					
NO.	STATION	OFFSET	NORTHING	EASTING	ELEV.
B-1	148+35.72	-0.99	502665.94	605701.62	7.62
B-2	148+00.99	12.22	502652.53	605667.67	7.09
B-3	147+89.43	0.43	502635.41	605666.79	7.62
B-4	148+44.73	25.37	502651.32	605725.34	7.09

ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
1	147+17.22	5.88	8.75" ASPHALT
2	149+17.46	8.20	8.25" ASPHALT
3	148+31.73	6.17	9.50" ASPHALT

RIPRAP SCHEDULE			
NO.	TYPE	AREA (SY)	DEPTH (FT)
1	R-4	29.56	1.17
2	R-4	52.90	1.17
3	R-4	63.00	1.17

RIGHT-OF-WAY MONUMENT SCHEDULE						
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING	DELINEATOR
1	CAPPED REBAR	147+60.00	-55.00	502659.4783	605608.8326	WOOD
2	CAPPED REBAR	148+25.00	-55.00	502700.8070	605659.0017	WOOD
3	CAPPED REBAR	148+00.00	30.00	502619.3056	605693.7512	WOOD
4	CAPPED REBAR	148+00.00	70.00	502588.4323	605719.1842	WOOD
5	CAPPED REBAR	148+65.00	30.00	502660.6343	605743.9203	WOOD

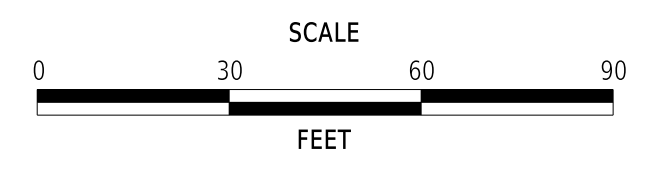
*DELINEATORS ARE INCIDENTAL TO THE MONUMENT BEING INSTALLED.

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INVERT EL.	DIS. EL.
1	15" RCP	IV	48.00'	0.0050	3.42	3.18
2	15" RCP	III	16.00'	0.0150	3.18	2.94
3	15" RCP	III	36.00'	0.0050	3.28	3.10
4	14" X 23" RCP	III	24.00'	0.0037	6.49	6.40

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
1	148+65.00	-29.00	34" x 24"	2	6.00	3.42
2	148+65.00	23.00	34" x 24"	2	6.00	3.18
3	148+00.00	27.00	34" x 24"	2	5.82	3.28

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ADDENDA / REVISIONS

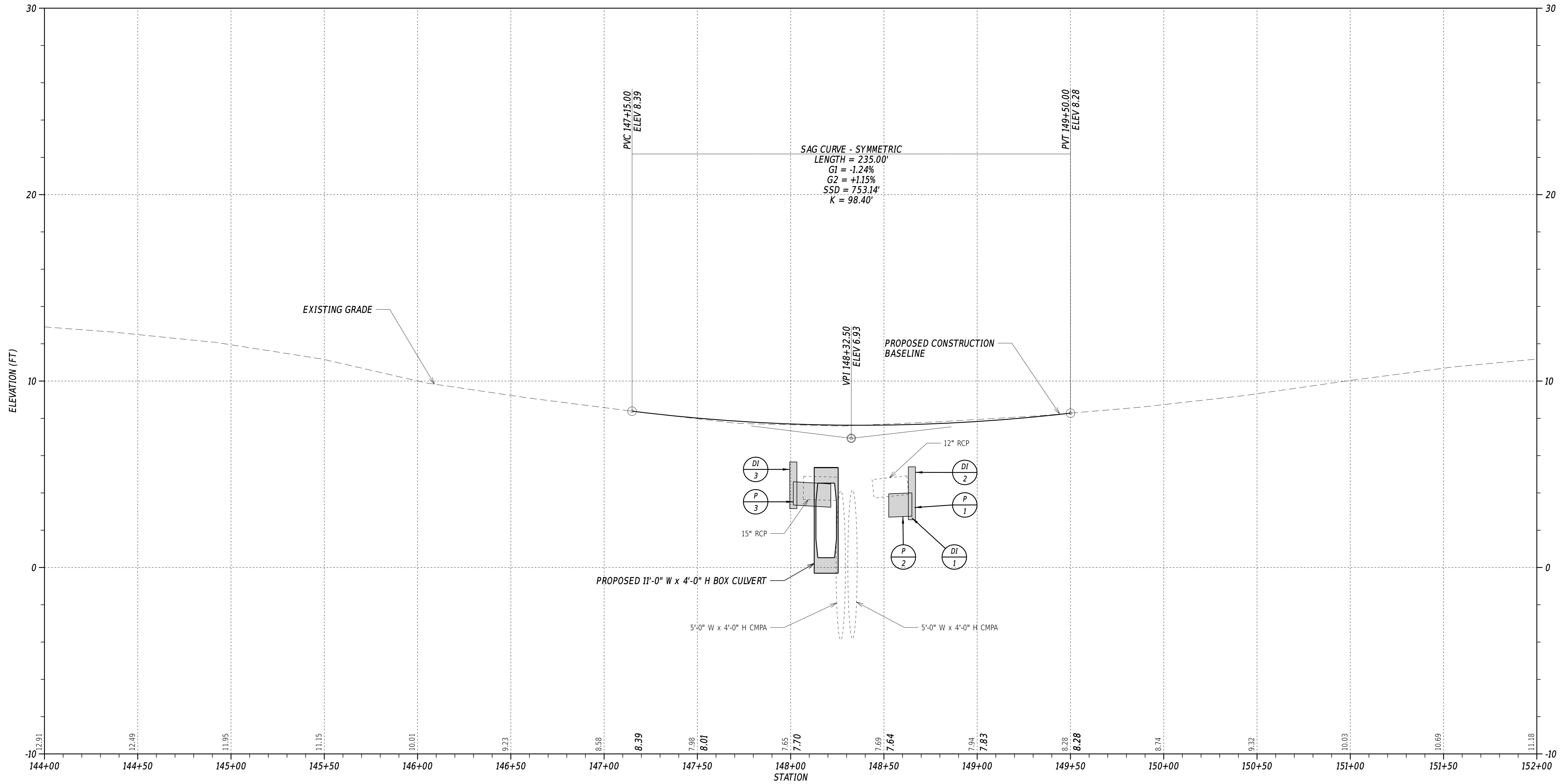


REPLACEMENT OF BR 1-453 ON WALKER SCHOOL ROAD

CONTRACT	BRIDGE NO.	1-453
T202407101	DESIGNED BY:	R. STEVENS
COUNTY	CHECKED BY:	M. NAUMAN
NEW CASTLE		

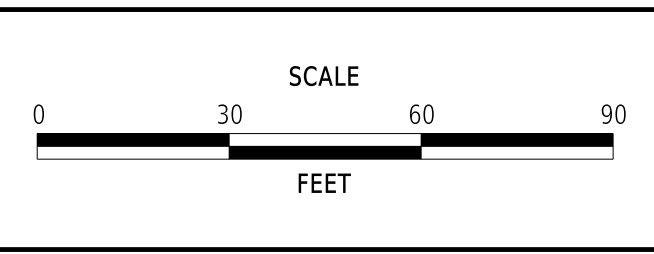
CONSTRUCTION PLAN

CP-01
SECTION
PD
SHEET NO.
7



27 MAY 2025 15:41 \\srm-del00p021\CS_pdf_work_dir\4084176587_35\PF01_ROSF_T202407101_DOT.dgn

ADDENDA / REVISIONS	



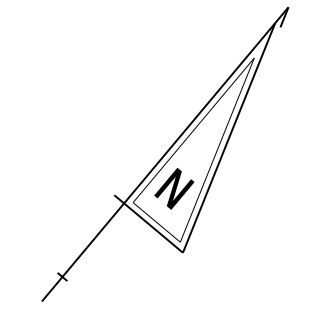
**REPLACEMENT OF
BR 1-453 ON
WALKER SCHOOL ROAD**

CONTRACT	BRIDGE NO.	1-453
T202407101	DESIGNED BY:	R. STEVENS
COUNTY	CHECKED BY:	M. NAUMAN
NEW CASTLE		

PROFILES

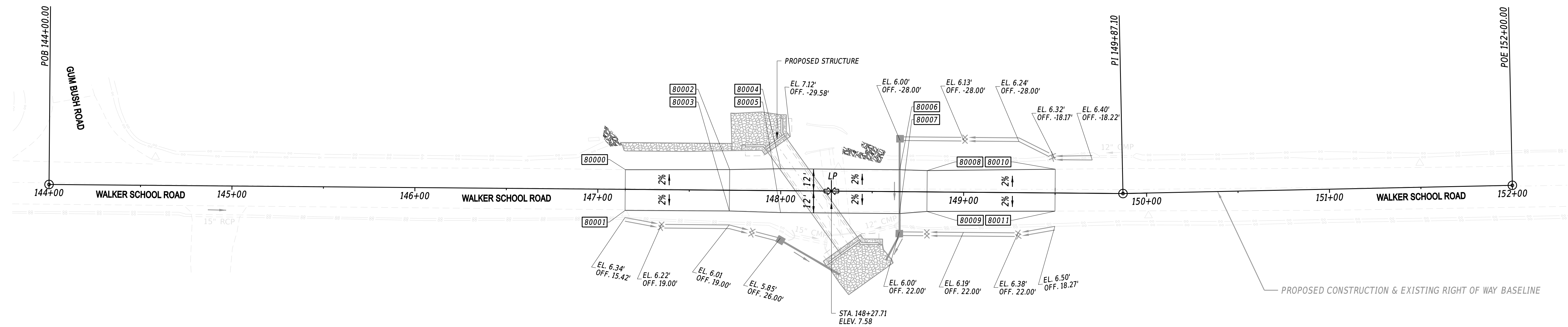
SECTION	9
PD	6
SHEET NO.	3
	0

VERTICAL SCALE
FEET



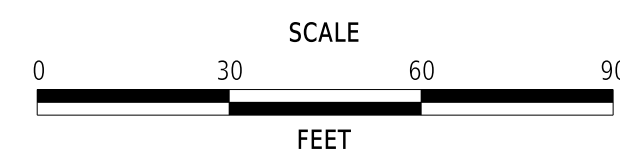
NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION BASELINE.
2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN AT THE EDGE OF PAVEMENT.
3. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS ALONG INTERSECTION CURVES ARE GIVEN AT 10 FOOT INTERVALS.
4. RADII ARE GIVEN TO THE EDGE OF PAVEMENT.
5. PROPOSED PAVEMENT OR CURBS THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR EXISTING CURB ELEVATIONS.
6. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.



COORDINATE LIST				
NO.	STATION	OFFSET	NORTHING	EASTING
80000	147+15.00	-10.77'	502596.7250	605602.2252
80001	147+15.00	11.52'	502579.5265	605616.3932
80002	147+72.00	-11.29'	502633.3752	605645.8835
80003	147+72.00	11.36'	502615.8911	605660.2867
80004	148+00.00	-12.00'	502651.7226	605667.0465
80005	148+00.00	12.00'	502633.1975	605682.3072
80006	148+65.00	-12.00'	502693.0513	605717.2156
80007	148+65.00	12.00'	502674.5273	605732.4754
80008	148+80.00	-11.67'	502702.3312	605729.0051
80009	148+80.00	10.70'	502685.0648	605743.2290
80010	149+50.00	-12.99'	502747.8633	605782.1896
80011	149+50.00	9.96'	502730.1479	605796.7833

ADDENDA / REVISIONS



**REPLACEMENT OF
BR 1-453 ON
WALKER SCHOOL ROAD**

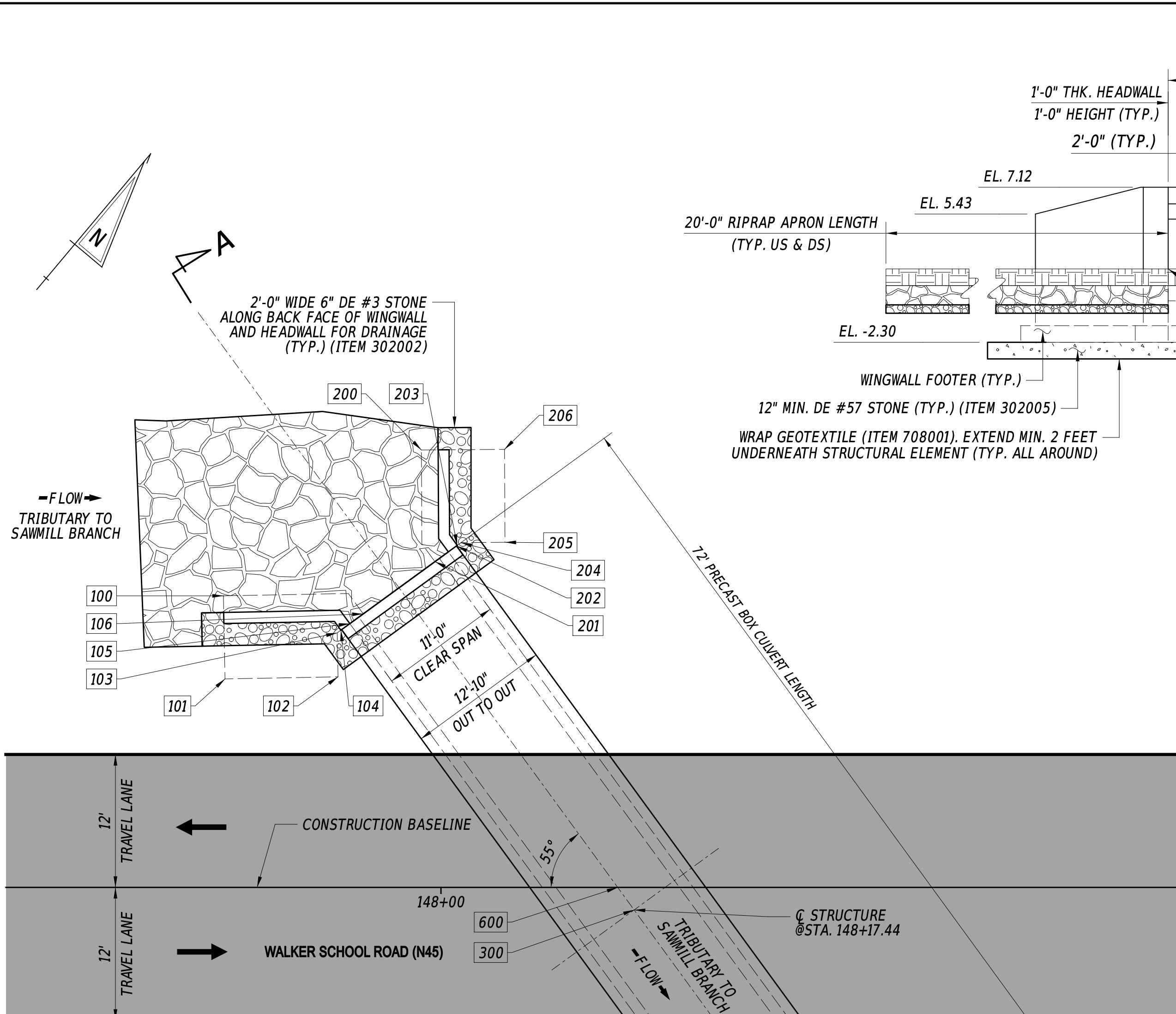
CONTRACT	BRIDGE NO.	1-453
T202407101	DESIGNED BY:	R. STEVENS
COUNTY	CHECKED BY:	M. NAUMAN
NEW CASTLE		

**GRADES AND
GEOMETRICS**

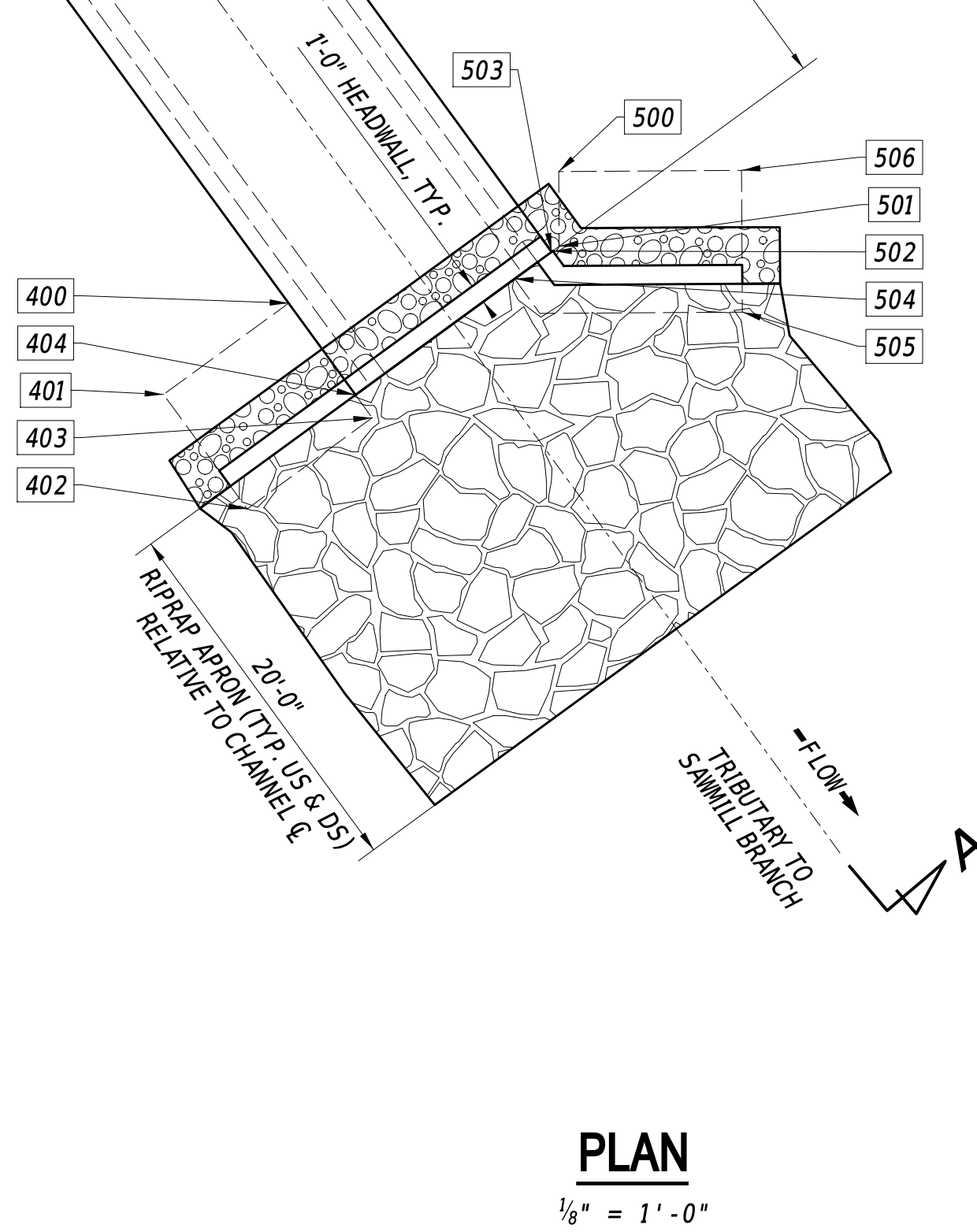
GG-01
SECTION
PD
SHEET NO.
9

10-NOV-2025
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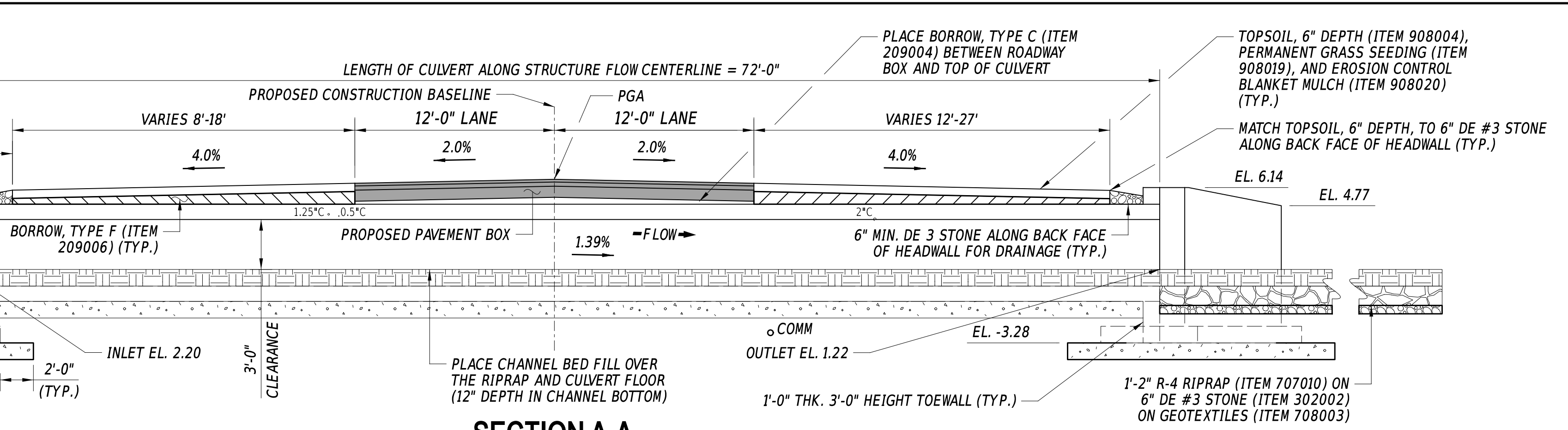
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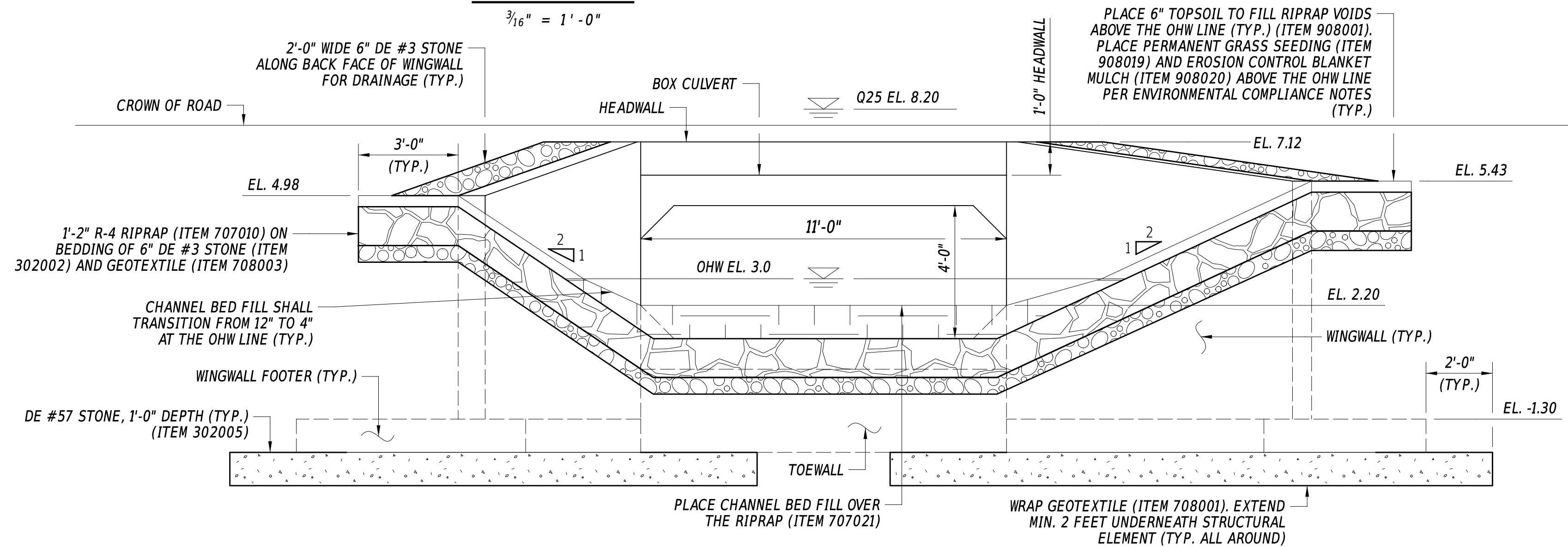
STRUCTURAL WORKING POINTS				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
100	147+80.37	-26.32'	502650.2918	605642.7890
101	147+80.51	-18.82'	502644.5967	605647.6691
102	147+90.71	-19.02'	502651.2335	605655.4144
103	147+90.63	-22.98'	502654.2396	605652.8385
104	147+90.97	-23.22'	502654.6432	605652.9422
105	147+91.78	-23.81'	502655.6117	605653.1910
106	147+92.99	-24.70'	502657.0645	605653.5642
200	147+98.23	-39.50'	502671.8224	605648.2001
201	147+99.45	-29.41'	502664.8129	605655.5551
202	148+01.41	-30.83'	502667.1535	605656.1564
203	148+01.47	-30.88'	502667.2342	605656.1771
204	148+01.81	-31.13'	502667.6378	605656.2808
205	148+05.78	-31.15'	502670.1827	605659.3327
206	148+05.73	-39.54'	502676.6256	605653.9602
300	148+17.44	2.03'	502651.9808	605689.4256
400	148+29.93	30.05'	502638.3005	605716.8833
401	148+23.32	34.87'	502630.3704	605714.8458
402	148+27.74	40.93'	502628.5040	605722.1098
403	148+34.35	36.11'	502636.4342	605724.1474
404	148+33.47	34.89'	502636.8074	605722.6946
500	148+44.22	23.08'	502652.7589	605723.4798
501	148+44.24	27.04'	502649.7214	605726.0125
502	148+43.90	27.28'	502649.3178	605725.9088
503	148+43.84	27.33'	502649.2371	605725.8880
504	148+41.88	28.76'	502646.8964	605725.2867
505	148+53.93	30.52'	502653.1907	605735.7093
506	148+53.89	23.02'	502658.9510	605730.9063
600	148+15.96	0.00'	502652.6060	605686.9920



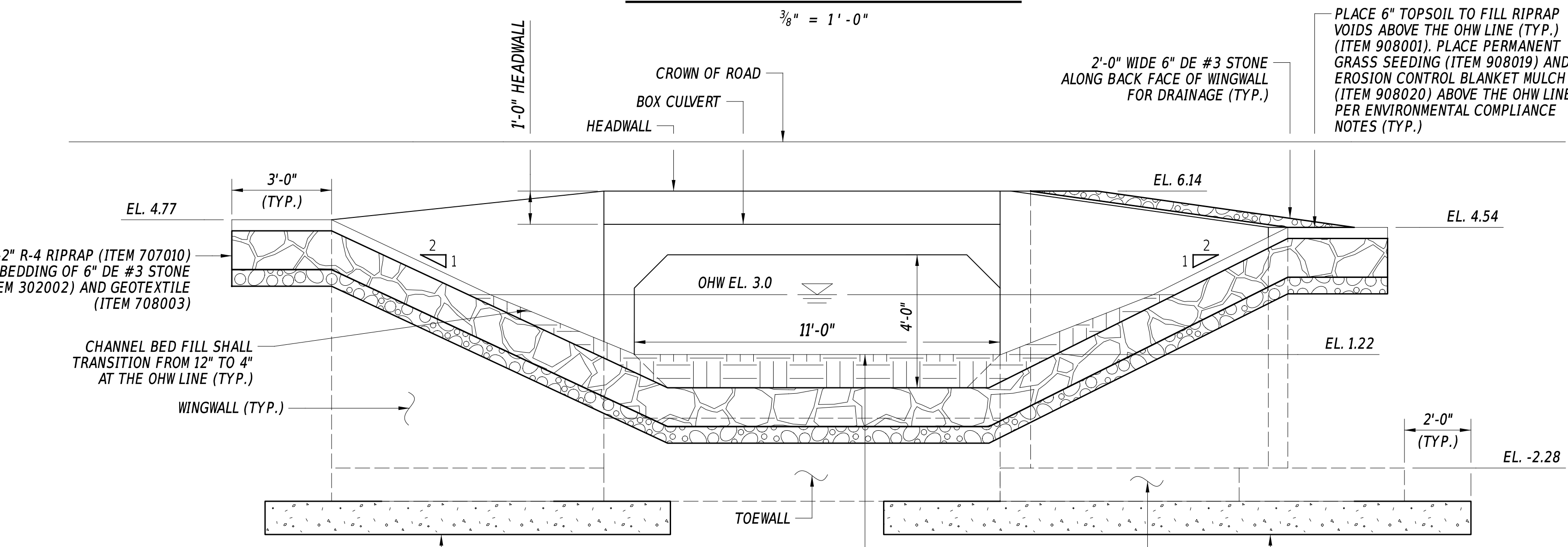
PLAN
1/6" = 1'-0"



SECTION A-A
3/16" = 1'-0"



TYPICAL UPSTREAM ELEVATION
3/8" = 1'-0"



TYPICAL DOWNSTREAM ELEVATION
3/8" = 1'-0"

ADDENDA / REVISIONS

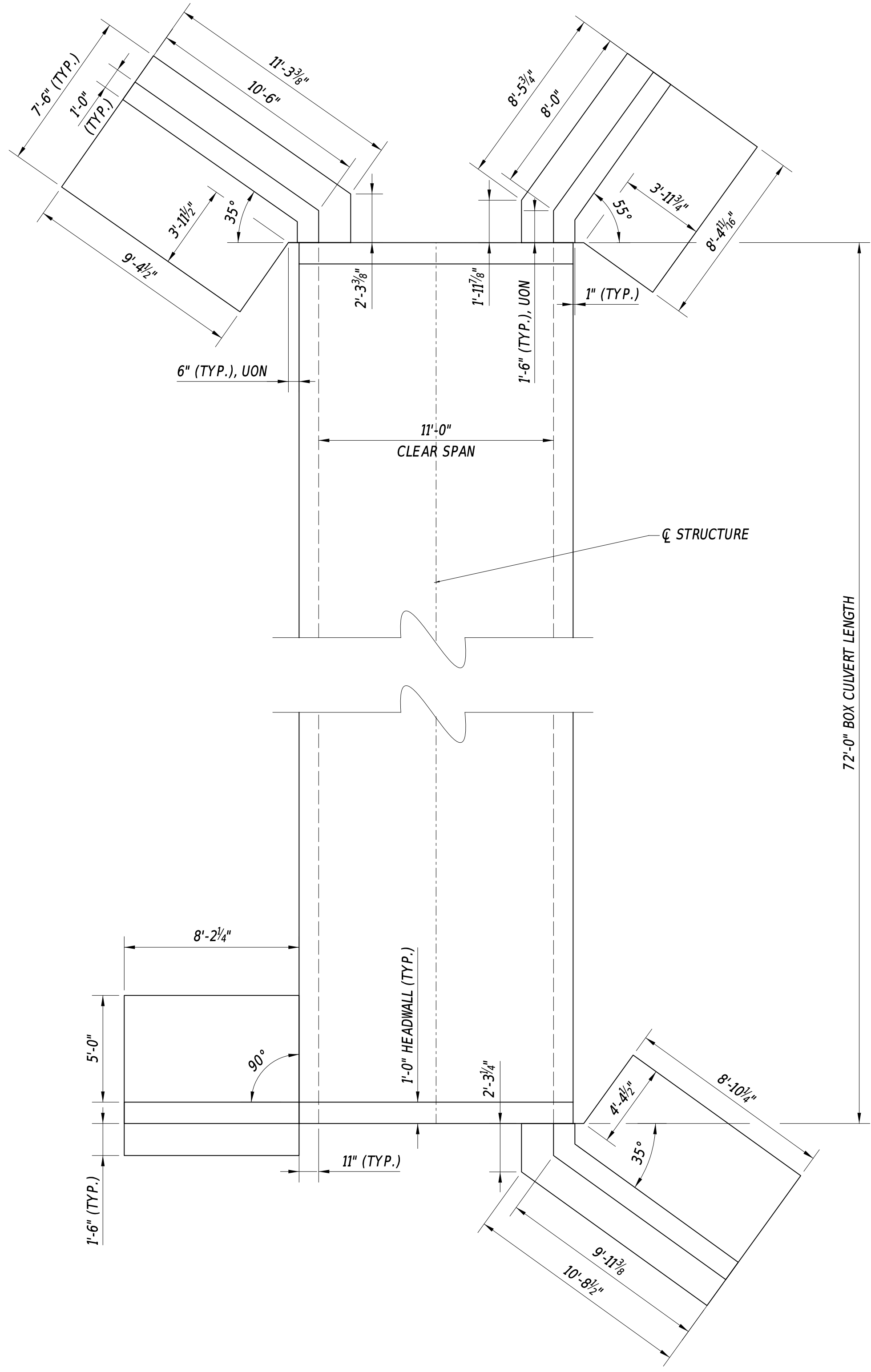
SCALE AS NOTED

**REPLACEMENT OF
BR 1-453 ON
WALKER SCHOOL ROAD**

CONTRACT	T202407101	BRIDGE NO.	1-453
COUNTY	NEW CASTLE	DESIGNED BY:	R. STEVENS
		CHECKED BY:	M. TOUSSAINT

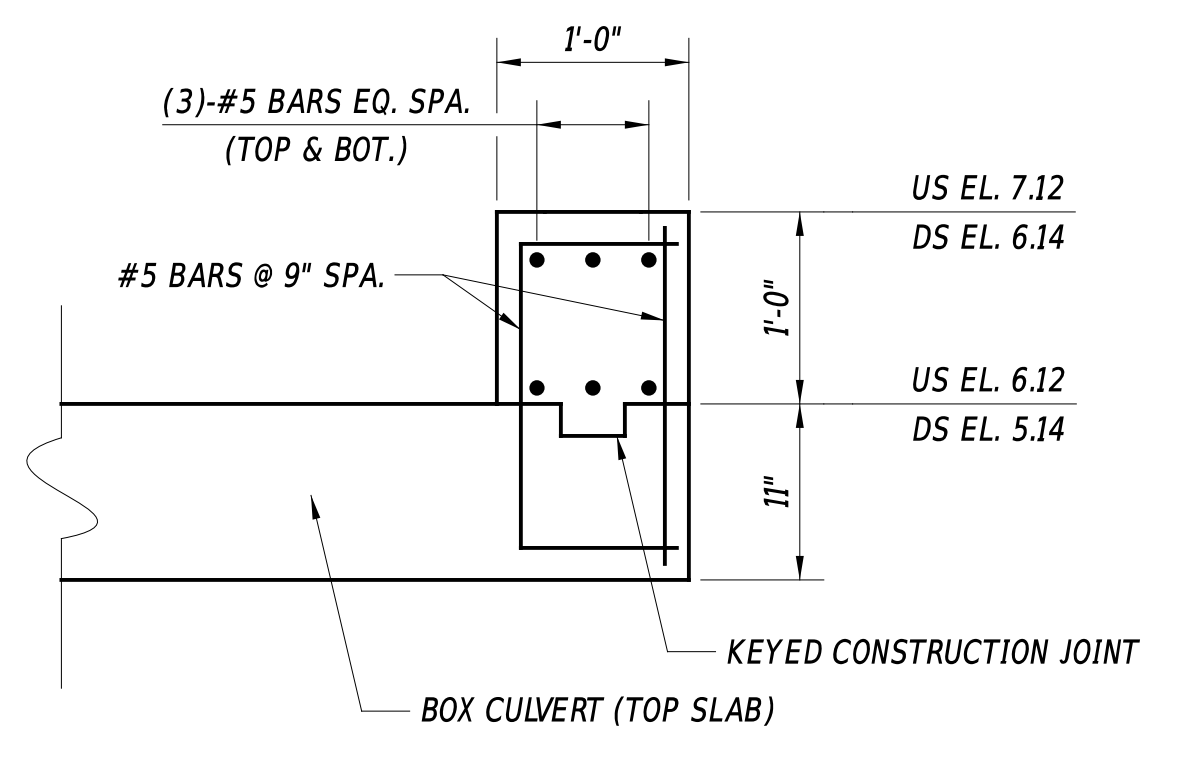
**BRIDGE PLAN, SECTION,
AND ELEVATION**

SECTION	BR
SHEET NO.	10



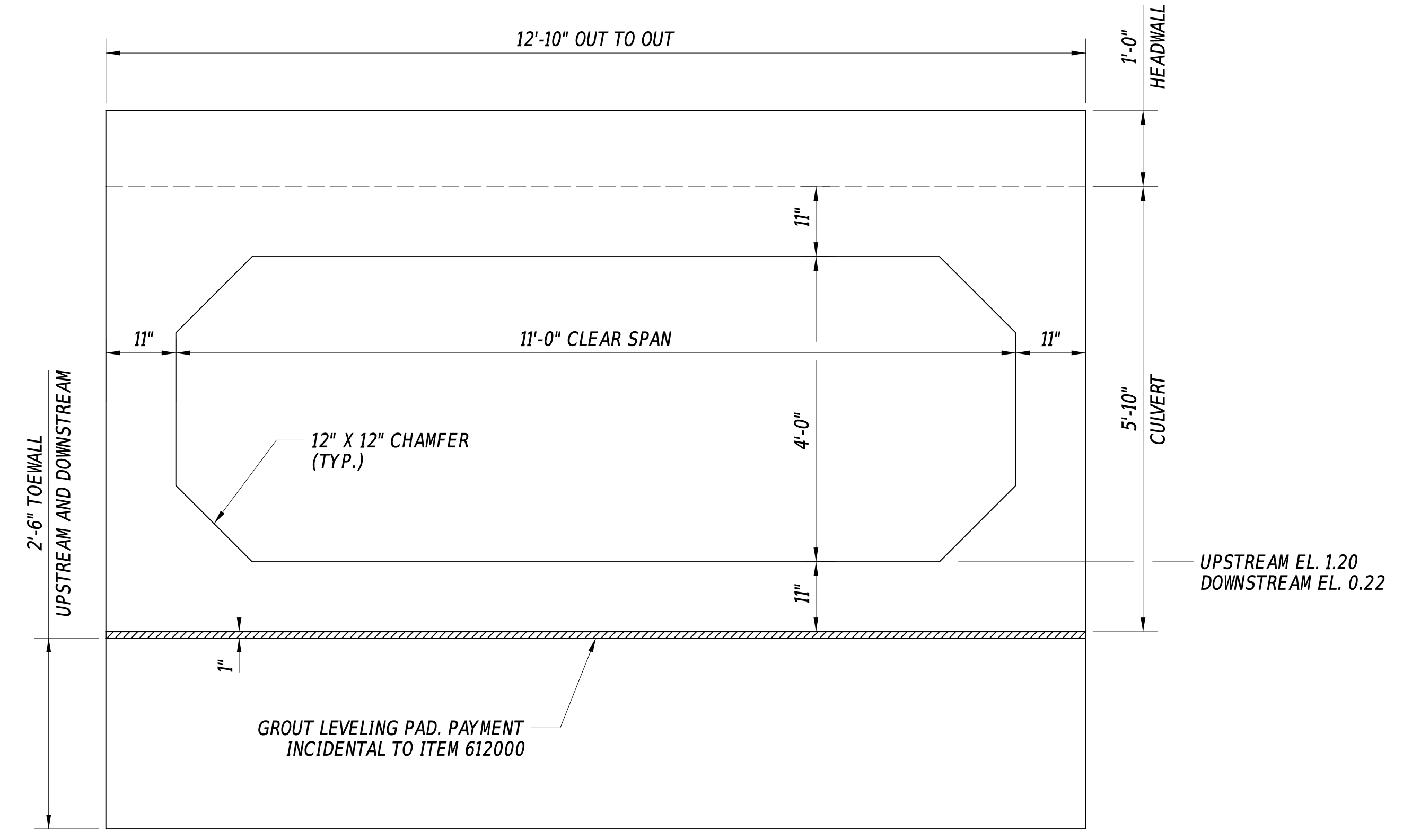
PRECAST BOX CULVERT PLAN

$\frac{1}{4}'' = 1' - 0''$



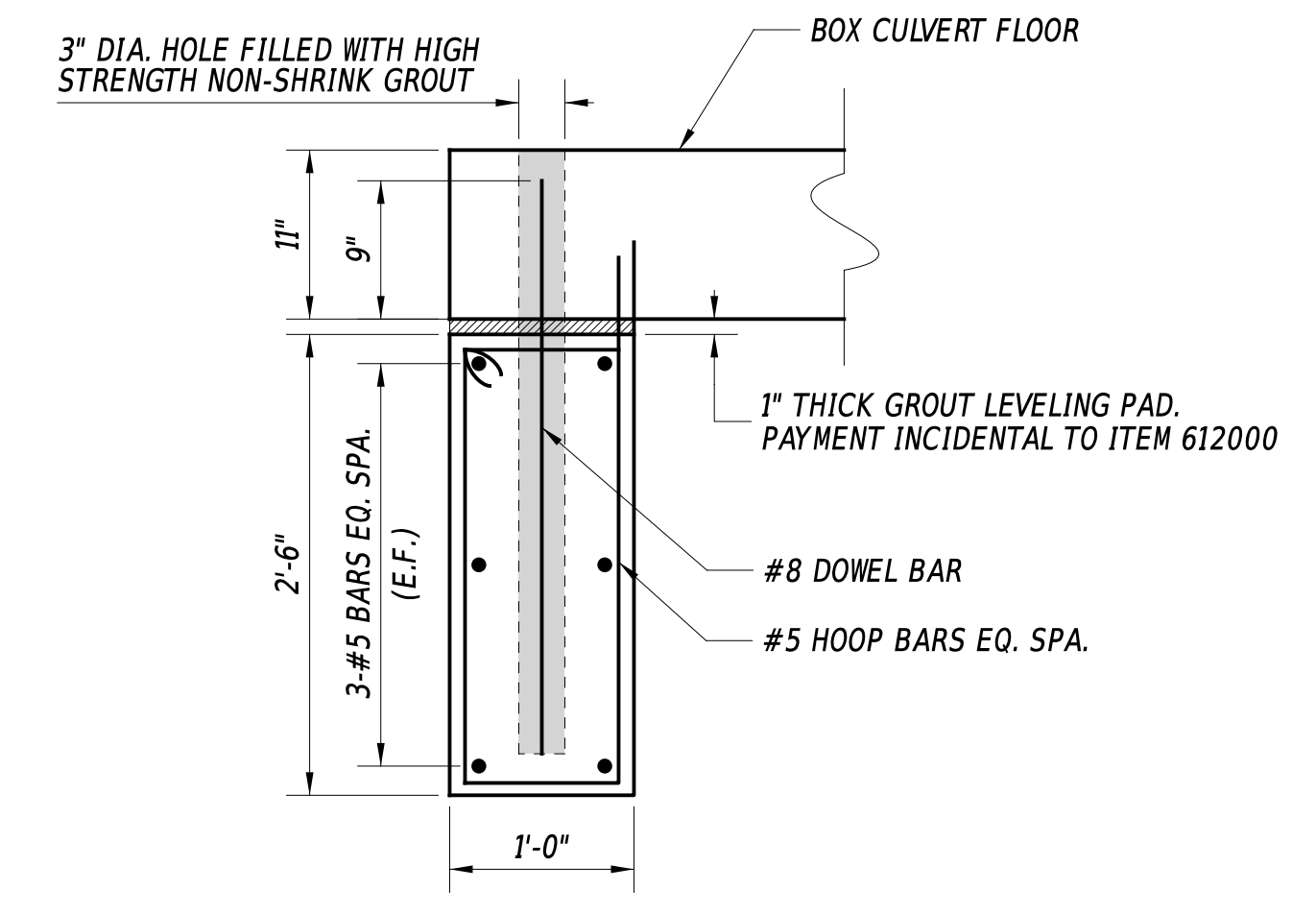
PRECAST HEADWALL DETAIL

$1'' = 1' - 0''$



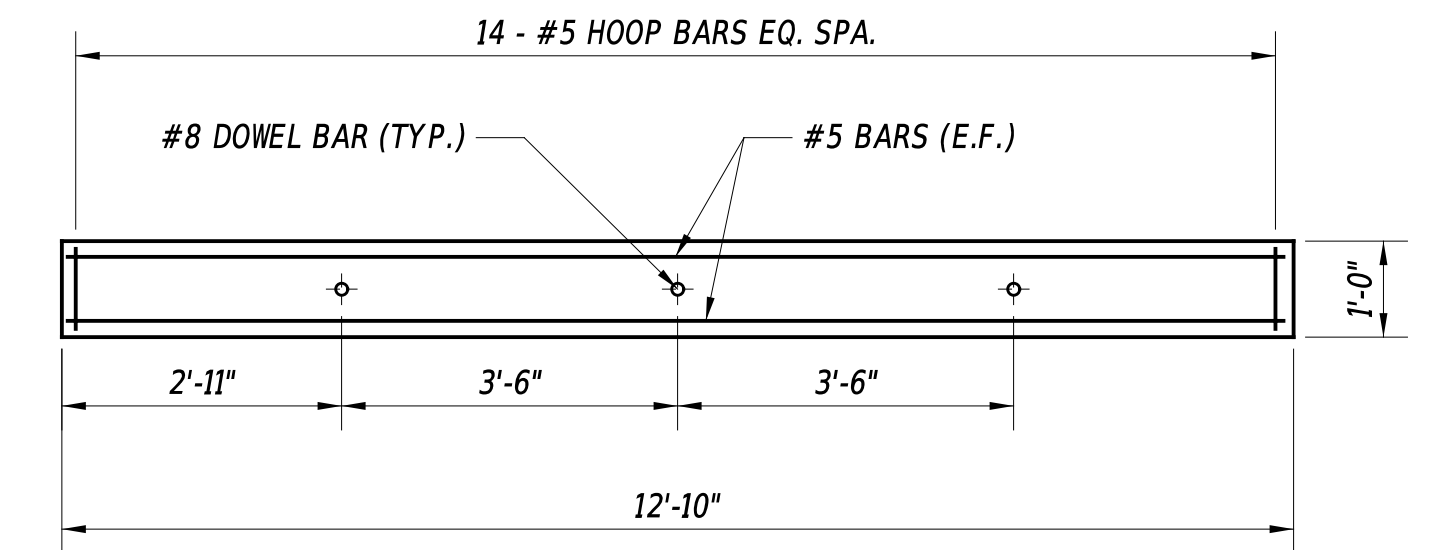
PRECAST BOX CULVERT DETAIL

$\frac{3}{4}'' = 1' - 0''$



PRECAST TOEWALL DETAIL

$1'' = 1' - 0''$



PRECAST TOEWALL PLAN

$\frac{1}{2}'' = 1' - 0''$

ADDENDA / REVISIONS

SCALE AS NOTED

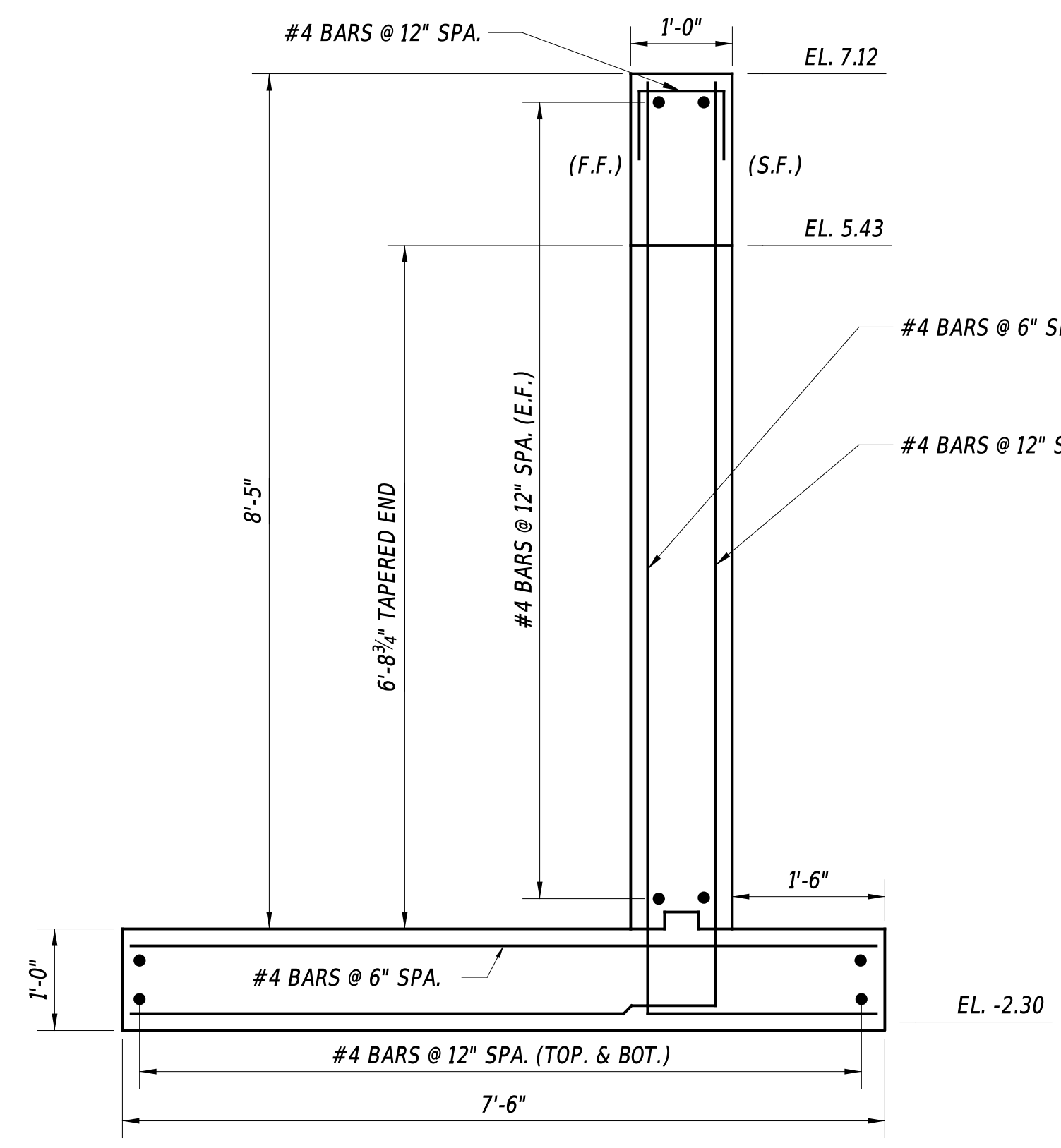
**REPLACEMENT OF
BR 1-453 ON
WALKER SCHOOL ROAD**

CONTRACT	BRIDGE NO.	1-453
T202407101	DESIGNED BY:	R. STEVENS
COUNTY	CHECKED BY:	M. TOUSSAINT
NEW CASTLE		

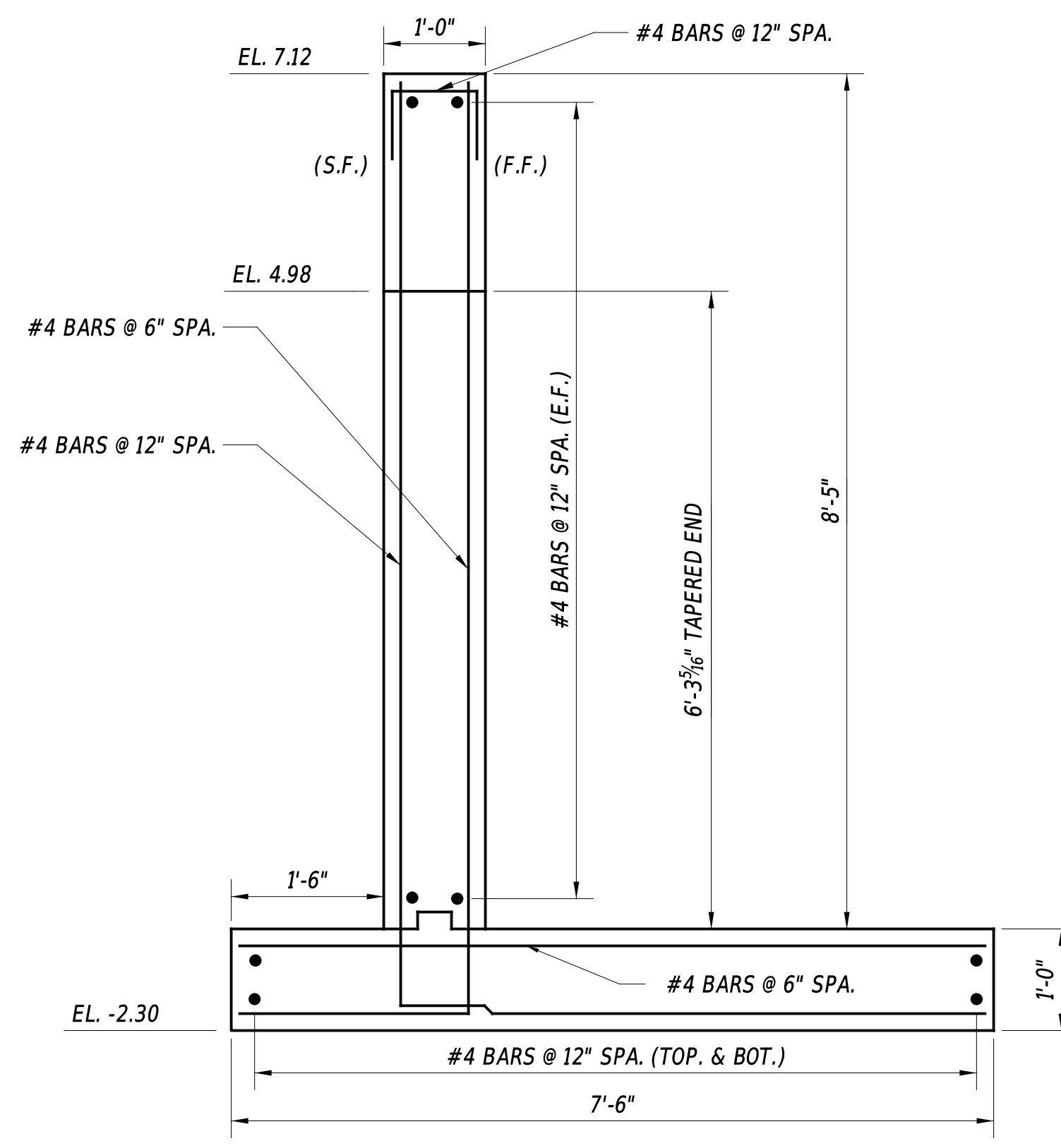
**PRECAST CONCRETE
DETAILS**

SECTION	BR
SHEET NO.	11

11-NOV-2025 11:40 pm/\\delldot-pw-bentley.com:delldot-pw-01\Documents\01_Active_Projects\DelDOT_Capital_Projects\T202407101\400_CADD\420_ROAD\423_SHEET_DGN\CU01_RD5F_T202407101_DOT

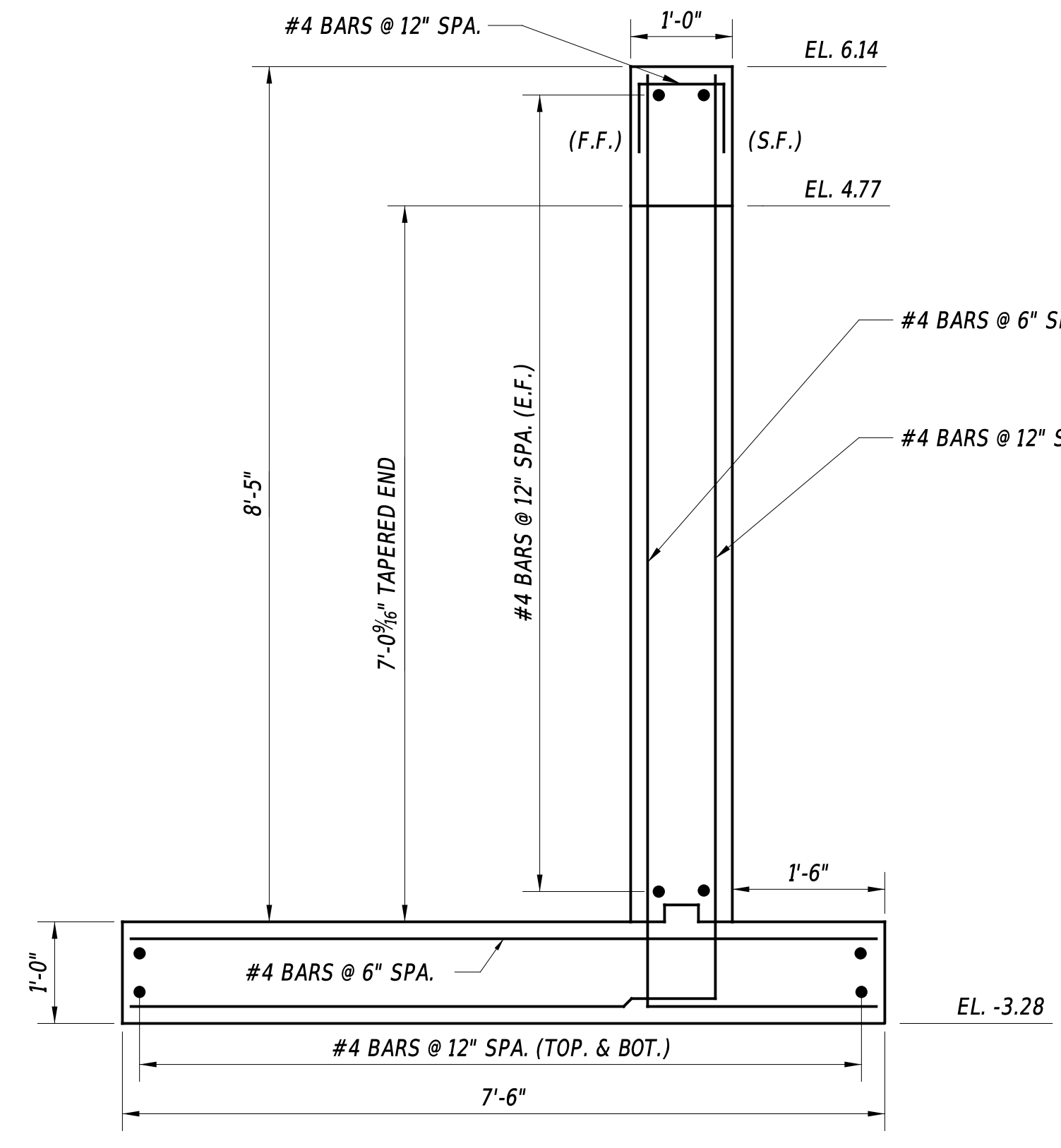


PRECAST WINGWALL SECTION
(SOUTHWEST)
3/4" = 1'-0"

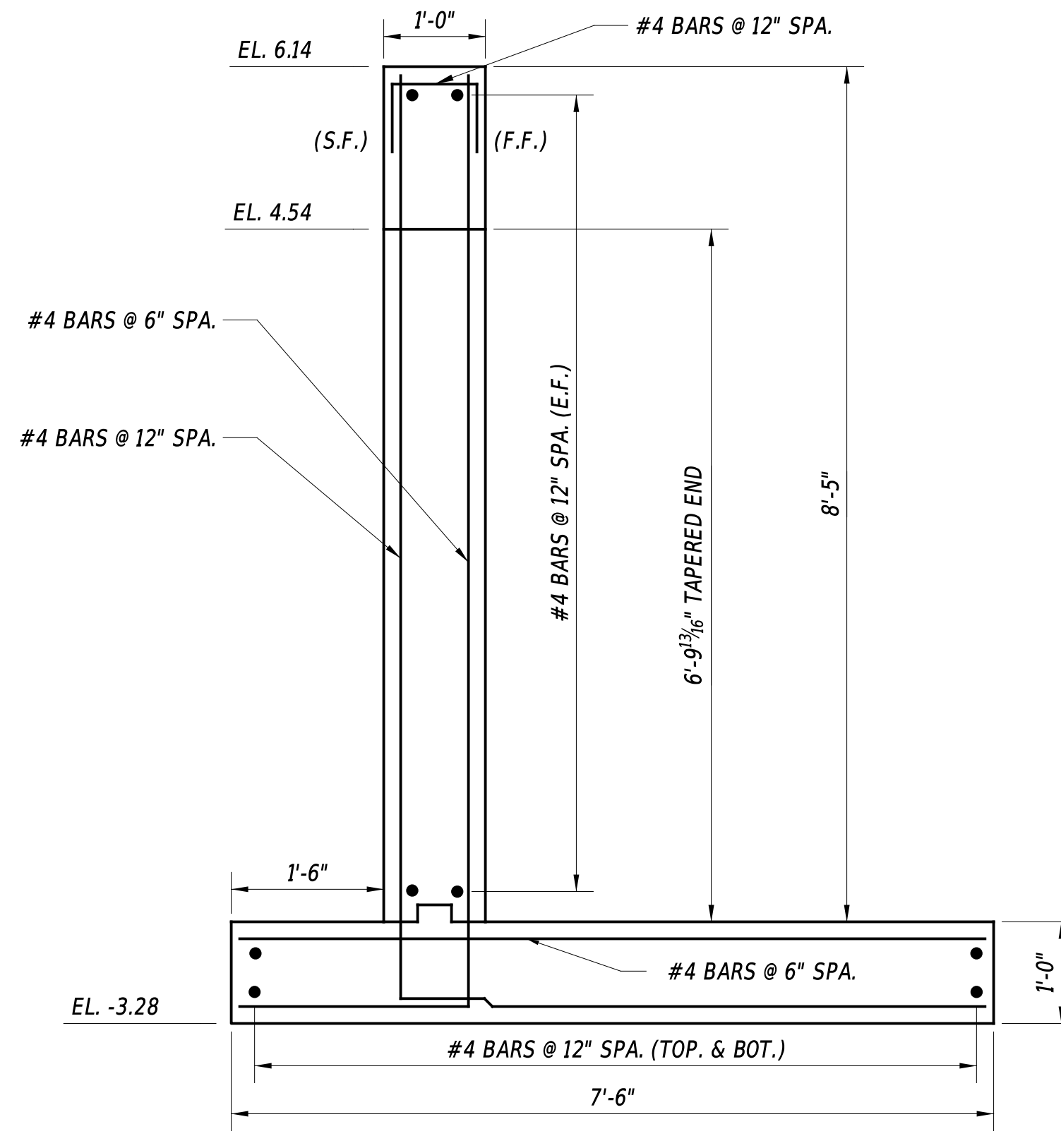


PRECAST WINGWALL SECTION
(NORTHWEST)
3/4" = 1'-0"

LEGEND
E.F. - DENOTES EACH FACE
F.F. - DENOTES FILL FACE
S.F. - DENOTES STREAM FACE



PRECAST WINGWALL SECTION
(SOUTHEAST)
3/4" = 1'-0"



PRECAST WINGWALL SECTION
(NORTHEAST)
3/4" = 1'-0"

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ADDENDA / REVISIONS	

SCALE AS NOTED

**REPLACEMENT OF
BR 1-453 ON
WALKER SCHOOL ROAD**

CONTRACT	BRIDGE NO.	1-453
T202407101	DESIGNED BY:	R. STEVENS
COUNTY	CHECKED BY:	M. TOUSSAINT
NEW CASTLE		

PRECAST CONCRETE DETAILS	SECTION
	SHEET NO.
	12

BORING: B-1		DATE DRILLED: 11/03/2024			
STATION: 148+35.72	OFFSET: -0.99	ELEVATION: 7.62	NORTHING: 502665.936	EASTING: 605701.619	
COMMENTS: N/A					
SAMPLE INFORMATION					
NO.	DEPTH	BLOWS / 6"	DESCRIPTION	CLASS / G.I.	REMARKS
1	0.0	8	MOIST MEDIUM DENSE GRAY FINE GRAVEL WITH SOME COARSE SAND, TRACE OF FINE SAND AND SILT.	A-1-A	HOT-MIX 6"
		10			
		11			
2	2.5	13	MOIST VERY STIFF GRAY FINE TO COARSE SANDY SILT.	A-4(0)	
		16			
		9			
3	4.0	1	WET SOFT GRAY CLAYEY SILT WITH SOME FINE TO COARSE SAND.	A-4(4)	
		1			
		2			
4	6.0	8	WET LOOSE GRAY COARSE TO FINE SAND WITH SOME SILT.	A-1-B	WATER LEVEL EL. 1.62
		5			
		4			
5	8.0	1	WET VERY LOOSE GRAY SILTY FINE TO COARSE SAND.	A-2-4(0)	US BOTTOM OF TOEWALL EL. -1.34 DS BOTTOM OF TOEWALL EL. -2.32
		1			
		4			
6	10.0	1	WET VERY LOOSE GRAY COARSE SAND WITH SOME FINE SAND AND FINE GRAVEL, TRACE OF SILT.	A-1-B	
		2			
		2			
7	12.0	5	WET LOOSE GRAY COARSE SANDY FINE GRAVEL WITH SOME FINE SAND, TRACE OF SILT.	A-1-B	
		4			
		3			
8	14.0	4	WET VERY LOOSE GRAY COARSE SANDY FINE GRAVEL WITH SOME FINE SAND AND SILT.	A-1-B	
		1			
		1			
9	16.0	2	SATURATED SOFT GRAY SILTY CLAY WITH SOME COARSE TO FINE SAND.	A-7-5(12)	
		1			
		1			
10	18.0	1	SATURATED SOFT GRAY COARSE SANDY CLAY WITH SOME FINE SAND AND SILT.	A-7-5(5)	
		1			
		1			
11	20.0	1	SATURATED SOFT GRAY COARSE TO FINE SANDY CLAY WITH SOME SILT.	A-7-5(6)	
		1			
		2			
12	22.0	2	SATURATED SOFT GRAY COARSE SANDY CLAY WITH SOME FINE SAND AND SILT.	A-7-5(6)	
		1			
		2			
13	24.0	1	SATURATED SOFT GRAY COARSE SANDY CLAY WITH SOME FINE SAND AND SILT.	A-7-5(5)	
		1			
		1			
14	26.0	1	SATURATED SOFT GRAY COARSE SANDY CLAY WITH SOME FINE SAND AND SILT.	A-7-5(4)	
		1/12			
		1			
15	28.0	WR	NO RECOVERY.		
		WR			
		WR			
	30.0	WR	END BORING		

BORING: B-2		DATE DRILLED: 11/03/2024			
STATION: 148+00.99	OFFSET: -12.22	ELEVATION: 7.09	NORTHING: 502652.526	EASTING: 605667.671	
COMMENTS: N/A					
SAMPLE INFORMATION					
NO.	DEPTH	BLOWS / 6"	DESCRIPTION	CLASS / G.I.	REMARKS
1	0.0	4	MOIST STIFF GRAY SILT WITH SOME FINE TO COARSE SAND, TRACE OF CLAY.	A-4(0)	HOT-MIX 6"
		5			
		5			
2	2.5	6	WET STIFF GRAY FINE SANDY SILT WITH SOME COARSE SAND AND CLAY.	A-4(0)	
		4			
		5			
3	4.0	1	WET SOFT GRAY CLAYEY FINE SANDY SILT WITH SOME COARSE SAND.	A-4(1)	
		2			
		2			
4	6.0	6	WET FIRM GRAY CLAYEY COARSE TO FINE SANDY SILT.	A-4(0)	
		5			
		3			
5	8.0	2	WET FIRM GRAY FINE SANDY SILT WITH SOME COARSE SAND AND CLAY.	A-4(0)	US BOTTOM OF TOEWALL EL. -1.34 WATER LEVEL EL. -1.91 DS BOTTOM OF TOEWALL EL. -2.32
		3			
		5			
6	10.0	6	WET MEDIUM DENSE GRAY COARSE TO FINE SAND WITH TRACE FINE GRAVEL AND SILT.	A-1-B	
		5			
		7			
7	12.0	4	WET MEDIUM DENSE GRAY COARSE TO FINE SAND WITH TRACE FINE GRAVEL AND SILT.	A-1-B	
		6			
		5			
8	14.0	4	WET LOOSE GRAY SILTY COARSE SAND AND FINE GRAVEL WITH SOME FINE SAND.	A-1-B	
		4			
		2			
9	16.0	1	SATURATED SOFT GRAY COARSE SANDY SILT WITH SOME FINE SAND.	A-4(0)	
		2			
		1			
10	18.0	1	SATURATED SOFT GRAY COARSE SANDY SILT WITH SOME FINE SAND.	A-4(0)	
		1			
		2			
11	20.0	2	SATURATED SOFT GRAY SILTY CLAY WITH TRACE FINE TO COARSE SAND.	A-7-5(17)	
		2			
		2			
12	22.0	2	SATURATED SOFT GRAY COARSE TO FINE SANDY SILT.	A-4(0)	
		2			
		2			
13	24.0	3	SATURATED FIRM GRAY COARSE SANDY SILT WITH SOME FINE SAND.	A-4(0)	
		2			
		3			
14	26.0	4	SATURATED FIRM GRAY COARSE SANDY CLAY WITH SOME FINE SAND AND SILT.	A-7-5(7)	
		3			
		2			
15	28.0	3	SATURATED STIFF GRAY COARSE SANDY CLAY WITH SOME FINE SAND AND SILT.	A-7-5(5)	
		4			
		5			
	30.0	4	END BORING		

ADDENDA / REVISIONS

NOT TO SCALE

**REPLACEMENT OF
BR 1-453 ON
WALKER SCHOOL ROAD**

CONTRACT	BRIDGE NO.	1-453
T202407101	DESIGNED BY:	R. STEVENS
COUNTY	CHECKED BY:	M. NAUMAN
NEW CASTLE		

BORING LOGS

SECTION
PD
SHEET NO.
13

BORING: B-3		DATE DRILLED: 6/25/2025			
STATION: 147+89.43	OFFSET: 0.43	ELEVATION: 7.75	NORTHING: 502635.408	EASTING: 605666.789	
COMMENTS: N/A					
SAMPLE INFORMATION					
NO.	DEPTH	BLOWS / 6"	DESCRIPTION	CLASS / G.I.	REMARKS
1	0.0	14	MOIST STIFF GRAY FINE TO COARSE SANDY SILT.	A-4(0)	HOT-MIX 6"
		7			
		3			
	4.0	3			
2	4.0	2	WET FIRM GRAY CLAYEY SILT WITH SOME COARSE TO FINE SAND.	A-4(1)	
		3			
		4			
	6.0	4			
3	6.0	3	WET STIFF GRAY CLAYEY SILT WITH SOME FINE TO COARSE SAND, TRACE FINE GRAVEL.	A-4(4)	
		5			
		6			
	8.0	6			
4	8.0	7	WET MEDIUM DENSE GRAY COARSE TO FINE SAND WITH SOME FINE GRAVEL AND SILT.	A-1-B	US BOTTOM OF TOEWALL EL. -1.34
		6			
		6			
	10.0	6			
5	10.0	3	WET LOOSE GRAY FINE TO COARSE SAND WITH TRACE FINE GRAVEL AND SILT.	A-3	WATER LEVEL EL. -2.25 DS BOTTOM OF TOEWALL EL. -2.32
		3			
		5			
	12.0	6			
6	12.0	4	WET MEDIUM DENSE GRAY COARSE SAND WITH SOME FINE GRAVEL, TRACE FINE SAND AND SILT.	A-1-B	
		6			
		8			
	14.0	9			
7	14.0	2	WET LOOSE GRAY FINE GRAVELLY COARSE SAND WITH SOME FINE SAND AND SILT.	A-1-B	
		4			
		2			
	16.0	2			
8	16.0	3	SATURATED FIRM BROWN SILTY CLAY WITH TRACE FINE SAND AND COARSE SAND.	A-7-5(12)	
		3			
		3			
	18.0	5			
9	18.0	3	SATURATED SOFT BROWN CLAY WITH SOME FINE GRAVEL, FINE TO COARSE SAND AND SILT.	A-7-5(8)	
		2			
		2			
	24.0	3			
10	24.0	8	SATURATED SOFT BROWN COARSE SANDY CLAY WITH SOME FINE SAND AND SILT.	A-7-5(8)	
		3			
		1			
	29.0	2			
11	29.0	3	SATURATED FIRM GRAY COARSE SANDY CLAY WITH SOME FINE SAND AND SILT.	A-7-5(16)	
		3			
		4			
	34.0	4			
12	34.0	4	SATURATED FIRM GRAY COARSE SANDY SILT WITH SOME FINE SAND.	A-5(0)	
		4			
		4			
	38.0	5			
13	38.0	8	SATURATED MEDIUM DENSE GRAY COARSE TO FINE SAND.	A-2-4(0)	
		11			
		17			
	40.0	20			
			END BORING		

BORING: B-4		DATE DRILLED: 6/25/2025			
STATION: 148+44.73	OFFSET: 25.37	ELEVATION: 7.37	NORTHING: 502651.319	EASTING: 605725.335	
COMMENTS: N/A					
SAMPLE INFORMATION					
NO.	DEPTH	BLOWS / 6"	DESCRIPTION	CLASS / G.I.	REMARKS
1	0.0	31	MOIST HARD GRAY SILT WITH SOME COARSE TO FINE SAND.	A-4(0)	HOT-MIX 6"
		23			
		19			
	2.0	14			
2	2.0	12	WET VERY STIFF GRAY FINE TO COARSE SANDY SILT WITH SOME FINE GRAVEL.	A-4(0)	
		6			
		5			
	4.0	2			
3	4.0	2	WET LOOSE GRAY FINE GRAVELLY COARSE TO FINE SAND.	A-1-B	
		6			
		3			
		2			
	6.0	4			
4	6.0	2	WET VERY LOOSE GRAY FINE GRAVELLY FINE TO COARSE SAND.	A-2-4(0)	
		2			
		3			
	8.0	3			
5	8.0	5	WET MEDIUM DENSE GRAY FINE GRAVELLY COARSE SAND WITH TRACE FINE SAND AND SILT.	A-1-B	US BOTTOM OF TOEWALL EL. -1.34 DS BOTTOM OF TOEWALL EL. -2.32
		7			
		6			
	10.0	7			
6	10.0	4	WET MEDIUM DENSE GRAY FINE GRAVELLY COARSE TO FINE SAND WITH TRACE SILT.	A-1-B	
		6			
		10			
		9			
	12.0	6			
7	12.0	2	SATURATED SOFT GRAY FINE SANDY CLAY WITH SOME COARSE SAND AND SILT.	A-7-5(9)	
		2			
		2			
	14.0	3			
8	14.0	2	SATURATED VERY LOOSE GRAY FINE GRAVEL WITH SOME SILT AND FINE TO COARSE SAND.	A-1-A	
		1			
		3			
	16.0	3			
9	16.0	2	SATURATED FIRM BROWN CLAY WITH SOME COARSE TO FINE SAND AND SILT.	A-7-5(6)	
		3			
		2			
	18.0	3			
10	18.0	3	SATURATED SOFT BROWN COARSE SANDY CLAY WITH SOME FINE SAND, FINE GRAVEL AND SILT.	A-7-5(8)	
		2			
		2			
	24.0	2			
11	24.0	3	SATURATED SOFT BROWN COARSE SANDY SILT WITH SOME FINE SAND, TRACE FINE GRAVEL.	A-4(0)	
		2			
		2			
	29.0	2			
12	29.0	2	SATURATED FIRM BROWN COARSE TO FINE SANDY CLAY WITH SOME SILT.	A-7-5(7)	
		3			
		5			
	34.0	4			
13	34.0	2	SATURATED FIRM BROWN FINE TO COARSE SANDY CLAY WITH SOME SILT.	A-7-5(3)	
		3			
		4			
	38.0	7			
14	38.0	8	SATURATED VERY STIFF BROWN COARSE SANDY CLAY WITH SOME FINE SAND AND SILT.	A-7-5(7)	
		11			
		14			
	40.0	18			
			END BORING		

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ADDENDA / REVISIONS		NOT TO SCALE	REPLACEMENT OF BR 1-453 ON WALKER SCHOOL ROAD	CONTRACT	BRIDGE NO.	1-453	BORING LOGS	SECTION
				T202407101	DESIGNED BY:	R. STEVENS		PD
			COUNTY	CHECKED BY:	M. NAUMAN	SHEET NO.		
			NEW CASTLE			14		

ENVIRONMENTAL COMPLIANCE NOTES

1. GENERAL NOTES:

- A. THE PURPOSE OF THIS SHEET IS TO IDENTIFY THOSE ITEMS ASSOCIATED WITH ENVIRONMENTAL COMPLIANCE. IMPACT CALCULATIONS ARE FOR THE AGENCY PERMIT REPORTING PURPOSES ONLY AND ARE NOT TO BE USED FOR BIDDING PURPOSES.
- B. IF A DEPARTURE FROM THE APPROVED PLANS (WHICH WOULD AFFECT ANY NATURAL AND/OR CULTURAL RESOURCES) IS NECESSARY, CONTACT THE ENVIRONMENTAL STUDIES SECTION AT (302-760-2264 OR DOT_ENVIRONMENTALSTUDIES@DELAWARE.GOV) TO ALLOW FOR COORDINATION WITH THE APPROPRIATE RESOURCE AGENCIES AND APPROVAL.
- C. USE OF THIS SHEET DOES NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL CONDITIONS SET FORTH IN THE ENVIRONMENTAL STATEMENT AND PERMITS.

2. NATURAL RESOURCE ISSUES:

- A. PERMIT REQUIREMENTS/APPROVALS *:
 - U.S. ARMY CORPS OF ENGINEERS (COE); NWP 3 (a) & (c), NO PCN REQUIRED
 - DNREC - WETLANDS & SUBAQUEOUS LANDS (WLSL): PROJECT CONSISTENT WITH DEL. CODE CH. 72, SECTION 7217, SPECIAL EXEMPTION (B).
 - DNREC - WATER QUALITY (WQC) & COASTAL ZONE CONSISTENCY (CZM): ISSUED
 - NCC DEPT. OF LAND USE (NCC): FLOODPLAIN APPROVAL
- * THE PERMITS/APPROVALS LISTED ARE THOSE REQUIRED FOR THIS PROJECT. THE ENVIRONMENTAL STUDIES SECTION IS RESPONSIBLE FOR COORDINATING AND/OR OBTAINING THESE APPROVALS.
- ** THE CONTRACTOR MUST ENSURE THAT THESE PERMITS/APPROVALS ARE IN THEIR POSSESSION PRIOR TO BEGINNING CONSTRUCTION IN THE PERMITTED AREA(S) AND ENSURE THEY ARE DISPLAYED ON-SITE DURING THE ENTIRE CONSTRUCTION PERIOD.
- B. CONSTRUCTION RESTRICTIONS:
 - FISHERIES - NO IN-WATER WORK MARCH 1 - JUNE 30
 - ENDANGERED SPECIES - NONE
 - MIGRATORY BIRDS - IF BRIDGE WORK IS PROPOSED DURING THE BREEDING SEASON (APRIL 15 TO AUGUST 1), CONTACT DELDOT ENVIRONMENTAL STUDIES VIA EMAIL AT DOT_ENVIRONMENTALSTUDIES@DELAWARE.GOV NO MORE THAN 14 DAYS PRIOR TO THE START OF WORK FOR A SURVEY TO DETERMINE IF ACTIVE NESTS ARE PRESENT. IF THE SURVEY DETECTS NESTING ACTIVITY, THE FOLLOWING STEPS MUST BE TAKEN TO AVOID NEST DESTRUCTION AND TAKE, WHICH IS A VIOLATION OF STATE LAW:
 1. ONLY PERFORM CONSTRUCTION ACTIVITIES FROM AUGUST 2 TO APRIL 14.
 2. OR IF CONSTRUCTION CANNOT BE PERFORMED FROM AUGUST 2 TO APRIL 14, A DETERRENT SUCH AS MESH NETTING MUST BE USED TO BLOCK ACCESS TO NESTING SITES ON THE UNDERSIDE OF THE BRIDGE(S) IN ACCORDANCE WITH SPECIAL PROVISION #763623 - NETTING MIGRATORY BIRD EXCLUSION. THE MATERIAL WOULD NEED TO BE IN PLACE NO LATER THAN APRIL 14, THE UNDERSIDE OF THE BRIDGE(S) WOULD NEED TO BE FULLY ENCAPSULATED, AND THE MATERIAL MUST BE LEFT IN PLACE UNTIL CONSTRUCTION BEGINS.

4. STREAM RESTORATION AND RIPRAP TREATMENT:

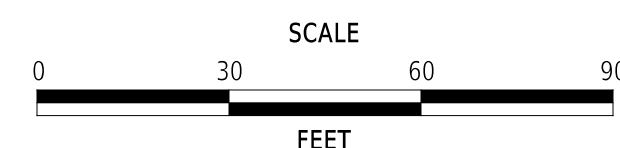
- A. FOLLOW THE STANDARD PROVISION ITEM 707021 - CHANNEL BED FILL IN REGARDS TO THE SALVAGING OF ON-SITE NATURAL STREAM BOTTOM MATERIAL OR THE FURNISHING OF OFFSITE MATERIAL. IF SUFFICIENT SOURCES FOR CHANNEL BED FILL DO NOT EXIST ON-SITE, ANY NEW MATERIAL MUST CONFORM TO THE REQUIREMENTS OF ITEM 707021 - CHANNEL BED FILL. RECESS ALL RIPRAP IN THE CHANNEL BOTTOM (I.E. BELOW THE WATER LINE) ONE FOOT BELOW STREAM BED ELEVATION AND CHOKE WITH BORROW TYPE 'B' SO THAT ALL OF THE VOIDS IN THE RIPRAP ARE FILLED WITH SPECIFIED MATERIAL. PAYMENT UNDER ITEM 209002 - BORROW, TYPE B. COVER THE RIPRAP WITH A MINIMUM OF 12" CHANNEL BED FILL. MATCH THE FINAL CHANNEL ELEVATIONS WITH EXISTING ELEVATIONS AT THE UPSTREAM AND DOWNSTREAM PROJECT LIMITS. THROUGH THE STRUCTURE, ELEVATIONS WILL BE AS NOTED ON THE PLANS. PAYMENT UNDER ITEM 707021 - CHANNEL BED FILL.
- B. RESTORE OTHER AREAS OF THE CHANNEL BOTTOM AFFECTED BY CONSTRUCTION (INCLUDING, BUT NOT LIMITED TO, THE LOCATION OF SUMP PITS, STABILIZED OUTFALLS, TEMPORARY PIPES AND/OR SANDBAG DIKES AND DIVERSIONS) TO EXISTING CONDITIONS. FILL ANY CAVITIES OR SCOUR HOLES RESULTING FROM CONSTRUCTION ACTIVITIES WITH CHANNEL BED FILL. PAYMENT UNDER ITEM 707021 - CHANNEL BED FILL.
- C. WHEN ALL EROSION AND SEDIMENT CONTROL MEASURES ARE REMOVED AND THE STREAM RETURNS TO ITS NATURAL FLOW CONDITIONS, THE FLOW MUST REMAIN ABOVE GROUND AND ABOVE THE RIPRAP (I.E. THE FLOW CANNOT BE "LOST" IN THE RIPRAP OR BENEATH THE STRUCTURE). IF THIS IS NOT ACHIEVED, THE CONTRACTOR WILL BE REQUIRED TO TAKE CORRECTIVE ACTION AT THE CONTRACTOR'S EXPENSE.
- D. CHOKE ALL RIPRAP ON THE STREAM BANK, OUTSIDE THE CHANNEL BED, WITH DELAWARE #57 STONE. PLACE JUST ENOUGH CHOKE MATERIAL TO PREVENT THE LOSS OF TOPSOIL THROUGH THE RIPRAP, AND THEN FINISH FILLING THE VOIDS WITH TOPSOIL SO THAT THE RIPRAP PEAKS ARE BARELY VISIBLE. PLACE AN ADDITIONAL 6-INCH TOPSOIL LAYER ON TOP OF THE RIPRAP. SLOPE SEEDING WILL BE DONE WITH ITEM 908019 - STREAMBANK SEED MIX, SEEDING. FOLLOWING THE SEEDING OPERATION, INSTALL ITEM 908020 - EROSION CONTROL BLANKET (ECB) MULCH, OR OTHER BLANKET AS SHOWN ON THE PLANS. ECB AT TOE OF SLOPE CAN BE EITHER TRENCHED IN OR STAPLED AT 6" ON CENTER. COMPLETE ALL WORK, STARTING WITH THE INITIAL CHOKING WITH TOPSOIL THROUGH THE SEEDING AND MULCHING PRIOR TO ANY RAIN EVENT. DELAWARE #57 STONE IS INCIDENTAL TO THE RIPRAP ITEM. ALL OTHER ITEMS WILL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS.
- E. THE TOPSOIL/SEED/MULCH CAN BE PLACED BEFORE OR AFTER THE REMOVAL OF THE STREAM DIVERSION. IF THE PLACEMENT OCCURS AFTER STREAM DIVERSION REMOVAL, USE A TURBIDITY CURTAIN TO MINIMIZE IN-STREAM SEDIMENTATION. PAYMENT WILL BE INCIDENTAL TO ITEM 909005 - STREAM DIVERSION.

5. PROTECTION OF RESOURCES:

- A. KEEP CLEARING IN WETLAND AREAS TO A MINIMUM ABSOLUTELY NECESSARY FOR CONSTRUCTION ACCESS. SUPPORT ALL EQUIPMENT TRAVERSING WETLANDS AND SUBAQUEOUS LAND ON MATS. PAYMENT FOR MATS WILL BE MADE UNDER ITEM 621500 - TEMPORARY TIMBER MAT. IN WETLAND AREAS THAT ARE CLEARED, NO GRUBBING EXCEPT WHERE NECESSARY TO CONSTRUCT PROJECT COMPONENTS SUCH AS FOUNDATIONS AND RIPRAP PROTECTION IS PERMITTED. CUT VEGETATION FLUSH WITH THE GROUND (I.E. NO DISTURBANCE OF THE ROOT MAT). RESTORE TEMPORARILY DISTURBED WETLAND AREAS TO GRADE AND SEED WITH ITEM 908019 - PERMANENT GRASS SEEDING, STREAMBANK.
- B. USE SILT FENCE OR CONSTRUCTION SAFETY FENCE ALONG THE LIMITS OF CONSTRUCTION IN ALL AREAS WHERE WATER WETLANDS ARE BEING IMPACTED (AS SHOWN ON ENVIRONMENTAL COMPLIANCE SHEETS), AND ALSO IN ANY AREA WHERE WATER/WETLANDS EXIST WITHIN 20 FEET OF THE LIMIT OF CONSTRUCTION (AS SHOWN ON CONSTRUCTION PLAN SHEETS). ANY CONTRACTOR ACCESS BEYOND THE LIMIT OF CONSTRUCTION IS STRICTLY PROHIBITED.
- C. USE SANDBAGS OR COMPOST FILTER LOG (CFL) TO SECURE SILT FENCE AT AREAS ADJACENT TO WOODED UPLANDS/ ALL WETLANDS IN LIEU OF TRENCHING UNLESS PROPER EROSION AND SEDIMENT CONTROL CANNOT BE MAINTAINED. REMOVE SANDBAGS AND CFLS (AND CONTENTS) IN THEIR ENTIRETY WHEN NO LONGER NEEDED. SANDBAGS/CFLS USED TO SECURE THE SILT FENCE IS INCIDENTAL TO ITEM 905001 - SILT FENCE. THE ENVIRONMENTAL STUDIES SECTION (302-760-2259 OR DOT_ENVIRONMENTALSTUDIES@DELAWARE.GOV) CAN PROVIDE FURTHER GUIDANCE REGARDING THIS METHOD OF INSTALLATION.
- D. CLEARLY MARK ALL TREES TO BE REMOVED WITH PAINT PRIOR TO THE EROSION AND SEDIMENT CONTROL MEETING.

ORIGINAL SHEET PREPARED BY REIGN STEVENS ON 03-04-2024. SHEET LAST UPDATED ON 09-06-2024.

ADDENDA / REVISIONS



REPLACEMENT OF BR 1-453 ON WALKER SCHOOL ROAD

CONTRACT	BRIDGE NO.	1-453
T202407101	DESIGNED BY:	R. STEVENS
COUNTY	CHECKED BY:	M. NAUMAN
NEW CASTLE		

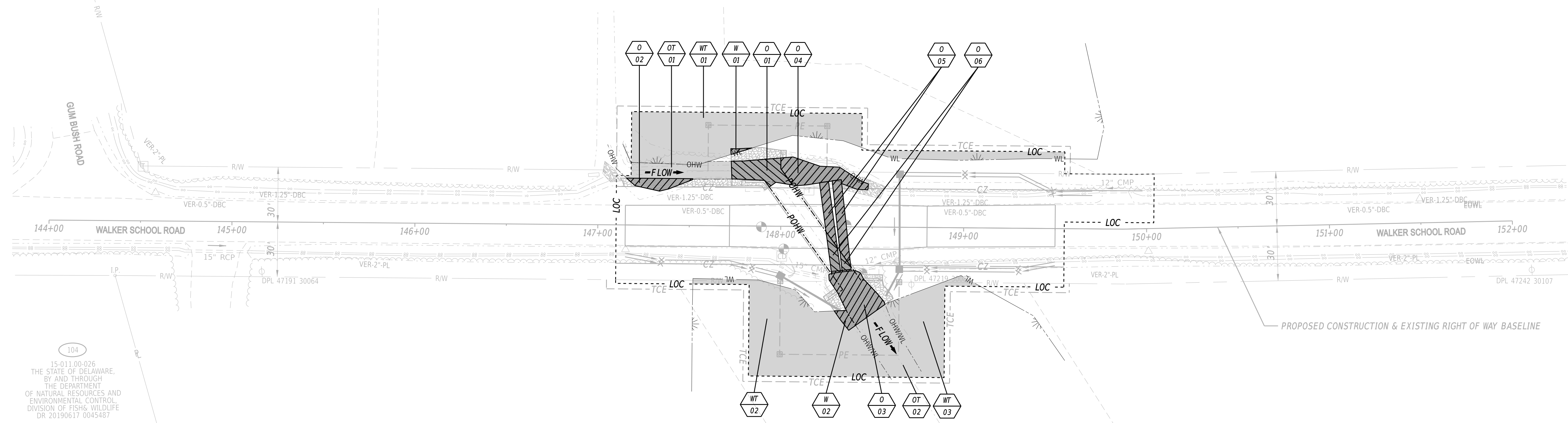
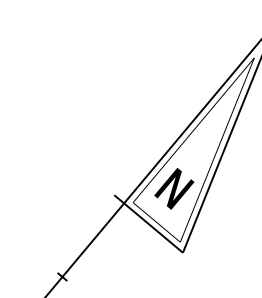
ENVIRONMENTAL COMPLIANCE NOTES

SECTION
PD
SHEET NO.
15

TEMPORARY WETLAND IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
WT-01	UPSTREAM WORK AREA	3072.49	0.0705	189.66	COE/DNREC
WT-02	DOWNSTREAM WORK AREA	2797.14	0.0642	172.67	COE/DNREC
WT-03	DOWNSTREAM WORK AREA	1167.14	0.0268	72.05	COE/DNREC
TOTAL TEMPORARY WETLAND IMPACT AREAS		7036.77	0.1615	434.38	COE/DNREC

TEMPORARY OPEN WATER IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
OT-01	UPSTREAM WORK AREA	475.25	0.0109	52.81	COE/DNREC
OT-02	DOWNSTREAM WORK AREA	687.64	0.0158	76.40	COE/DNREC
TOTAL TEMPORARY OPEN WATER IMPACTS		1162.89	0.0267	129.21	COE/DNREC

101
15-007.00-013
THOMAS A. GILLIGAN, TRUSTEE
OF THE 2006 KENNETH A. KERSHAW
DELAWARE TRUST, UNDER AGREEMENT
DATED SEPTEMBER 13, 2006
DR 20100203 0005949
AGRICULTURAL LANDS
PRESERVATION EASEMENT
DR 19980901-1526519
PB 199809011892100



104
15-011.00-026
THE STATE OF DELAWARE,
BY AND THROUGH
THE DEPARTMENT
OF NATURAL RESOURCES AND
ENVIRONMENTAL CONTROL
DIVISION OF FISH & WILDLIFE
DR 20190617 0045467

103
15-011.00-025
CAN BE DONE FARMS, LLC
DR 20200423-0031915
AGRICULTURAL LANDS
PRESERVATION EASEMENT
DR 20071218-0106566
PB 200711140098217

PERMANENT WETLAND IMPACT AREA SCHEDULE							
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION	LOSS VS. IMPACT	LOSS AREA (AC)
W-01	DOWNSTREAM RIPRAP	17.30	0.0004	1.07	COE/DNREC	LOSS	0.0004
W-02	DOWNSTREAM RIPRAP	58.71	0.0013	3.62	COE/DNREC	LOSS	0.0013
TOTAL PERMANENT WETLAND IMPACT AREAS		76.01	0.0017	4.69	COE/DNREC	LOSS	0.0017

PERMANENT OPEN WATER IMPACT AREA SCHEDULE							
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION	LOSS VS. IMPACT	LOSS AREA (AC)
O-01	UPSTREAM RIPRAP AND WORK AREA	336.31	0.0077	20.76	COE/DNREC	IMPACT	0.0000
O-02	BANK ARMORING	155.96	0.0036	9.63	COE/DNREC	IMPACT	0.0005
O-03	DOWNSTREAM RIPRAP AND WORK AREA	564.12	0.0130	34.82	COE/DNREC	IMPACT	0.0000
O-04	REDIRECTION OF STREAM FLOW	437.10	0.0100	26.98	COE/DNREC	LOSS	0.0100
O-05	REMOVAL OF EXISTING CMPAs	374.13	0.0086	23.09	COE/DNREC	LOSS	0.0086
O-06	REMOVAL OF EXISTING CMPAs	126.57	0.0029	7.81	COE/DNREC	IMPACT	0.0000
TOTAL PERMANENT OPEN WATER IMPACTS		1994.19	0.0243	65.21	COE/DNREC	N/A	0.0005

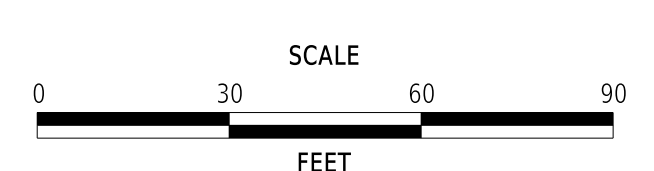
PROJECT AREA DELINEATED BY VAN ADAMS (DELDOT) IN AUGUST 2023 IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS
"CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987) AND THE ATLANTIC AND GULF COASTAL REGIONAL SUPPLEMENT (2010)."

SHEET PREPARED BY REIGN STEVENS, 2/06/2024, DELAWARE D.O.T. PROJECT DEVELOPMENT SECTION.
LAST UPDATED ON 4/16/2024

LEGEND	
	PERMANENT IMPACT AREA
	TEMPORARY IMPACT AREA
	WETLAND BOUNDARY
	ORDINARY HIGH WATER
	PROPOSED ORDINARY HIGH WATER
	LIMIT OF CONSTRUCTION
	IMPACT AREA TYPE ID. (SEE BELOW) IMPACT AREA ID. AND/OR NUMBER
T	TEMPORARY IMPACT
O	OPEN WATER IMPACT
W	WETLAND IMPACT

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ADDENDA / REVISIONS



REPLACEMENT OF BR 1-453 ON WALKER SCHOOL ROAD

CONTRACT	BRIDGE NO.	1-453
T202407101	DESIGNED BY:	R. STEVENS
COUNTY	CHECKED BY:	M. NAUMAN
NEW CASTLE		

ENVIRONMENTAL COMPLIANCE PLAN

SECTION	PD
SHEET NO.	16

GENERAL MOT NOTES



1. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES SHALL CONFORM TO TYPICAL APPLICATION 10 OF THE DELAWARE MUTCD.
2. AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

(X)	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
()	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT AND THAT PERSON'S SOLE RESPONSIBILITY SHALL BE THE MANAGEMENT AND SUPERVISION OF THE PROJECT'S TEMPORARY TRAFFIC CONTROL ACTIVITIES. THIS PERSON SHALL NOT HAVE ANY OTHER ROLE ON THE PROJECT. RESPONSIBILITIES AND REQUIREMENTS OF THE ATSSA SUPERVISOR ARE DEFINED IN SECTION 812 OF THE STANDARD SPECIFICATIONS. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 801000.

3. A TYPE II TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE REQUIRED ON THIS PROJECT DURING THE FOLLOWING OPERATIONS WHEN NOT UNDER DETOUR: 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.
4. ALL NECESSARY SIGNS, PAVEMENT MARKINGS AND ROADSIDE APPURTENANCES SHALL BE INSTALLED PRIOR TO THE OPENING/REOPENING OF A ROADWAY OR RAMP. A WALKTHROUGH WITH THE ENGINEER, TRAFFIC SAFETY, TRAFFIC CONSTRUCTION AND OTHER PERSONNEL SHALL OCCUR NO LESS THAN 48 HOURS PRIOR TO THE OPENING/REOPENING OF ANY ROAD OR RAMP.

WALKER SCHOOL RD - ALLOWABLE LANE CLOSURE HOURS

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY																								
MONDAY																								
TUESDAY																								
WEDNESDAY																								
THURSDAY																								
FRIDAY																								
SATURDAY																								


 ONE TRAVEL LANE PERMITTED TO BE CLOSED
 NO TRAVEL LANE CLOSURES PERMITTED

GENERAL E&S SEQUENCE NOTES (FOR ALL PHASES)

1. INSTALL ALL PERIMETER E&S ITEMS AND SENSITIVE AREA PROTECTIONS PRIOR TO ANY LAND DISTURBING ACTIVITIES. THE ONLY LAND DISTURBANCE ALLOWABLE IS WHAT IS NECESSARY TO INSTALL THE PERIMETER E&S ITEMS.
2. ESTABLISH CONSTRUCTION STAGING AREAS AND INSTALL E&S CONTROLS.
3. ONCE PERIMETER E&S CONTROLS ARE INSTALLED, THEY SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE ANY OTHER LAND DISTURBING ACTIVITIES CAN BEGIN.
4. PRIOR TO COMMENCING A NEW PHASE OF CONSTRUCTION, APPROVAL IS REQUIRED FROM THE ENGINEER THAT THE AREAS WITHIN THE PREVIOUS PHASE HAVE BEEN SUFFICIENTLY STABILIZED.
5. COMPLETE PERMANENT STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS UPON REACHING FINAL GRADE.
6. DO NOT REMOVE E&S DEVICES UNLESS DIRECTED BY THE ENGINEER.



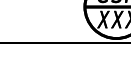
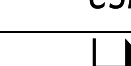

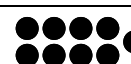

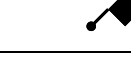

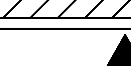



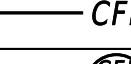


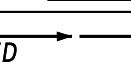

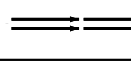
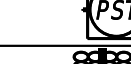
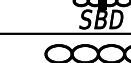
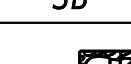


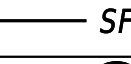
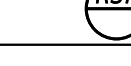
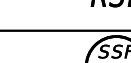
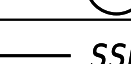



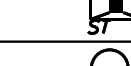

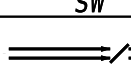
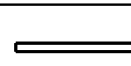

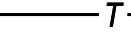





GENERAL EROSION AND SEDIMENT CONTROL (E&S) NOTES

1. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. PLAN APPROVAL IS VALID FOR A FIVE-YEAR PERIOD BEGINNING ON THE DATE OF THE STORMWATER ENGINEER'S SIGNATURE. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE FIVE YEARS, NOTIFY THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION. ANY DEVIATIONS TO THE SWPPP NEED APPROVAL FROM THE ENGINEER.

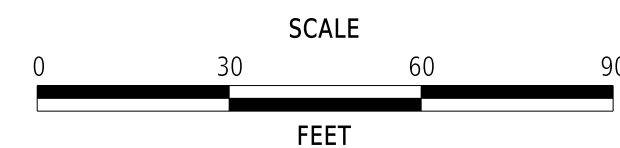
REVIEWED FOR GENERAL CONFORMITY WITH
 CURRENT DELAWARE SEDIMENT AND STORMWATER
 REGULATIONS.
 05/13/2025
 STORMWATER ENGINEER
 DELAWARE DEPARTMENT OF TRANSPORTATION
 EXPIRES: 5/13/2030

AMOUNT OF DISTURBED AREA FOR THE PROJECT	0.3 AC
ADDED IMPERVIOUS FOR THE PROJECT	474.64 SF
HUC-10 WATERSHED	SMYRNA RIVER

2. ASSIGN A RESPONSIBLE PERSON TO BE ON SITE DURING ALL EARTH DISTURBING ACTIVITIES AND BE AN ACTIVE DNR EC BLUE CARD HOLDER AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS (DSSR). BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT.
3. FILE AS A CO-PERMITTEE IN ACCORDANCE WITH SECTION 901 OF THE STANDARD SPECIFICATIONS. POSTING AND MAINTENANCE OF THE NOI PERMIT COVERAGE IS INCIDENTAL TO THE CONTRACT.
4. REVISIONS TO THE SWPPP OR ENVIRONMENTAL COMPLIANCE PLAN SHEET(S) SHALL BE APPROVED PRIOR TO INITIATION IN THE FIELD. THE ENGINEER IS RESPONSIBLE FOR APPROVING ALL REDLINES AND REVISIONS TO THE SWPPP.
5. IMPLEMENTING AND MAINTAINING POLLUTION PREVENTION DEVICES AND PRACTICES IS REQUIRED UNDER THE DELAWARE CONSTRUCTION GENERAL PERMIT AND THE DSSR AND ARE INCIDENTAL TO THE CONTRACT.
6. PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF FROM LEAVING THE SITE. CHECK PERIMETER CONTROLS DAILY AND ADJUST OR REPAIR TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. REMOVE ACCUMULATED SEDIMENT BEFORE IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE ENGINEER.
6. ANY SEDIMENT LADEN DISCHARGE LEAVING THE LIMIT OF CONSTRUCTION SHALL IMMEDIATELY BE ADDRESSED THROUGH BEST AVAILABLE TECHNOLOGIES TO CONTROL ANY FURTHER SEDIMENT LADEN DISCHARGE. REMEDIATION MAY INCLUDE STANDARD E&S PRACTICES OR OTHER METHODS AS APPROVED BY THE ENGINEER.
7. ALL TEMPORARY CONCENTRATED FLOW AREAS INCLUDING CHANNEL SIDE SLOPES SHALL HAVE EROSION CONTROL BLANKET MULCH AS DIRECTED BY THE ENGINEER. INSTALL WITHIN SEVEN CALENDAR DAYS UPON CONSTRUCTION INITIATION. A TEMPORARY CONCENTRATED FLOW AREA MAY INCLUDE DITCHES, SWALES, BERMS, CONCENTRATED RUNOFF AREAS, ETC.
8. PER SIDEWALK, TRAIL, OR OTHER LINEAR IMPERVIOUS SURFACES STANDARD PLAN APPROVAL, NO MORE THAN 1.0 ACRE MAY BE DISTURBED AT ANY TIME. FURTHER DISTURBANCE MAY NOT PROCEED UNTIL TEMPORARY OR PERMANENT STABILIZATION OF THE PREVIOUSLY DISTURBED AREA IS COMPLETED TO THE SATISFACTION OF AND AS APPROVED BY THE ENGINEER.
9. MAINTAIN POSITIVE DRAINAGE IN EXISTING AND PROPOSED DRAINAGE SYSTEMS BY EXECUTING CONSTRUCTION, CLEANING EXISTING DRAINAGE SYSTEMS, AND PROPERLY DISPOSING OF SEDIMENT THROUGHOUT THE DURATION OF THE PROJECT.

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
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE
EROSION & SEDIMENT CONTROL	
	COMPOST FILTER LOG
	COMPOST FILTER LOG / LENGTH
	DEWATERING BAG
	DEWATERING BASIN
	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE / LENGTH
	SILT FENCE
	REINFORCED SILT FENCE / LENGTH
	REINFORCED SILT FENCE
	SUPER SILT FENCE / LENGTH
	SUPER SILT FENCE
	SUMP PIT
	SEDIMENT TRAP / NUMBER
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
	TURBIDITY CURTAIN

ADDENDA / REVISIONS



REPLACEMENT OF BR 1-453 ON WALKER SCHOOL ROAD

CONTRACT	BRIDGE NO.	1-453
T202407101	DESIGNED BY:	R. STEVENS
COUNTY	CHECKED BY:	M. NAUMAN
NEW CASTLE		

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL NOTES

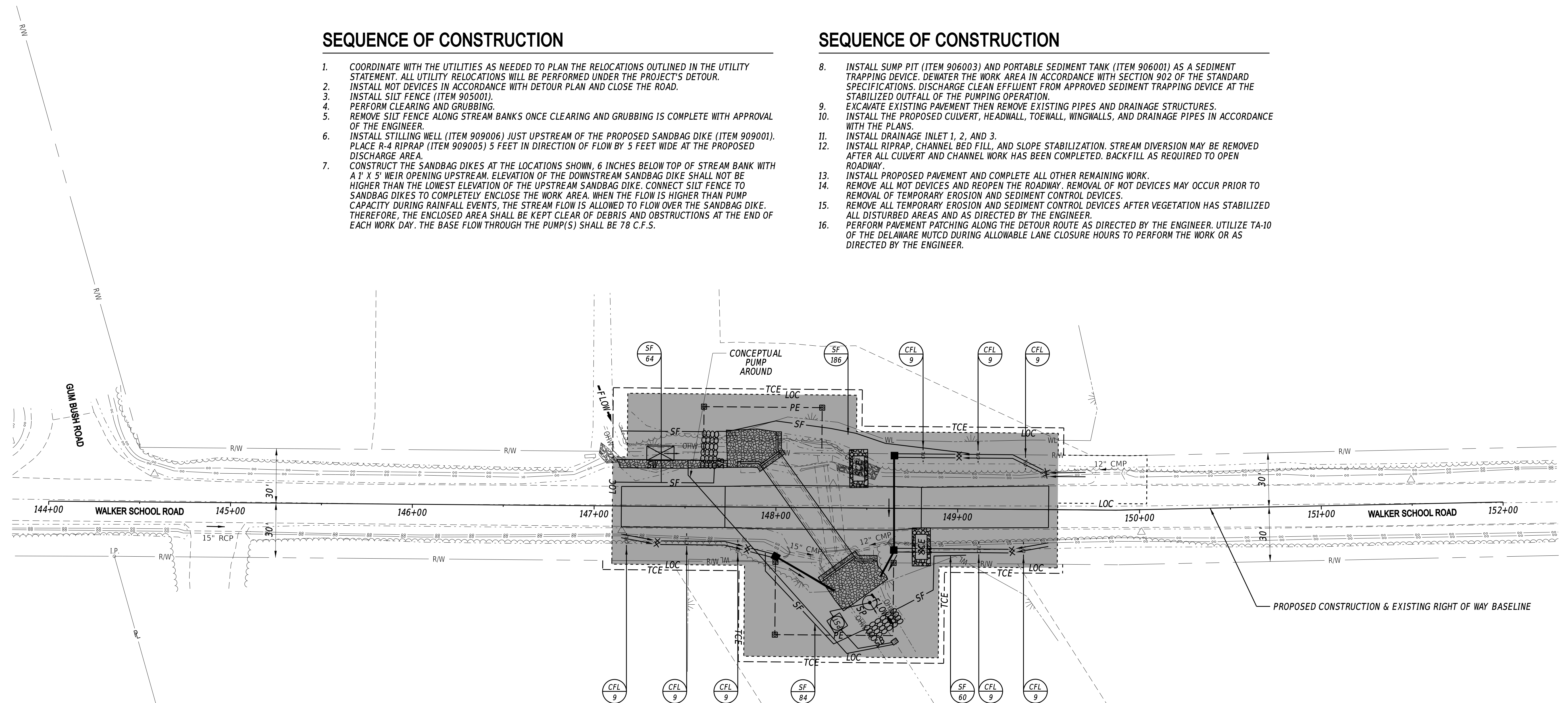
SECTION	PD
SHEET NO.	17

SEQUENCE OF CONSTRUCTION

1. COORDINATE WITH THE UTILITIES AS NEEDED TO PLAN THE RELOCATIONS OUTLINED IN THE UTILITY STATEMENT. ALL UTILITY RELOCATIONS WILL BE PERFORMED UNDER THE PROJECT'S DETOUR.
2. INSTALL MOT DEVICES IN ACCORDANCE WITH DETOUR PLAN AND CLOSE THE ROAD.
3. INSTALL SILT FENCE (ITEM 905001).
4. PERFORM CLEARING AND GRUBBING.
5. REMOVE SILT FENCE ALONG STREAM BANKS ONCE CLEARING AND GRUBBING IS COMPLETE WITH APPROVAL OF THE ENGINEER.
6. INSTALL STILLING WELL (ITEM 909006) JUST UPSTREAM OF THE PROPOSED SANDBAG DIKE (ITEM 909001). PLACE R-4 RIPRAP (ITEM 909005) 5 FEET IN DIRECTION OF FLOW BY 5 FEET WIDE AT THE PROPOSED DISCHARGE AREA.
7. CONSTRUCT THE SANDBAG DIKES AT THE LOCATIONS SHOWN, 6 INCHES BELOW TOP OF STREAM BANK WITH A 1' X 5' WEIR OPENING UPSTREAM. ELEVATION OF THE DOWNSTREAM SANDBAG DIKE SHALL NOT BE HIGHER THAN THE LOWEST ELEVATION OF THE UPSTREAM SANDBAG DIKE. CONNECT SILT FENCE TO SANDBAG DIKES TO COMPLETELY ENCLOSE THE WORK AREA. WHEN THE FLOW IS HIGHER THAN PUMP CAPACITY DURING RAINFALL EVENTS, THE STREAM FLOW IS ALLOWED TO FLOW OVER THE SANDBAG DIKE. THEREFORE, THE ENCLOSED AREA SHALL BE KEPT CLEAR OF DEBRIS AND OBSTRUCTIONS AT THE END OF EACH WORK DAY. THE BASE FLOW THROUGH THE PUMP(S) SHALL BE 78 C.F.S.

SEQUENCE OF CONSTRUCTION

8. INSTALL SUMP PIT (ITEM 906003) AND PORTABLE SEDIMENT TANK (ITEM 906001) AS A SEDIMENT TRAPPING DEVICE. DEWATER THE WORK AREA IN ACCORDANCE WITH SECTION 902 OF THE STANDARD SPECIFICATIONS. DISCHARGE CLEAN EFFLUENT FROM APPROVED SEDIMENT TRAPPING DEVICE AT THE STABILIZED OUTFALL OF THE PUMPING OPERATION.
9. EXCAVATE EXISTING PAVEMENT THEN REMOVE EXISTING PIPES AND DRAINAGE STRUCTURES.
10. INSTALL THE PROPOSED CULVERT, HEADWALL, TOEWALL, WINGWALLS, AND DRAINAGE PIPES IN ACCORDANCE WITH THE PLANS.
11. INSTALL DRAINAGE INLET 1, 2, AND 3.
12. INSTALL RIPRAP, CHANNEL BED FILL, AND SLOPE STABILIZATION. STREAM DIVERSION MAY BE REMOVED AFTER ALL CULVERT AND CHANNEL WORK HAS BEEN COMPLETED. BACKFILL AS REQUIRED TO OPEN ROADWAY.
13. INSTALL PROPOSED PAVEMENT AND COMPLETE ALL OTHER REMAINING WORK.
14. REMOVE ALL MOT DEVICES AND REOPEN THE ROADWAY. REMOVAL OF MOT DEVICES MAY OCCUR PRIOR TO REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
15. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER VEGETATION HAS STABILIZED ALL DISTURBED AREAS AND AS DIRECTED BY THE ENGINEER.
16. PERFORM PAVEMENT PATCHING ALONG THE DETOUR ROUTE AS DIRECTED BY THE ENGINEER. UTILIZE TA-10 OF THE DELAWARE MUTCD DURING ALLOWABLE LANE CLOSURE HOURS TO PERFORM THE WORK OR AS DIRECTED BY THE ENGINEER.

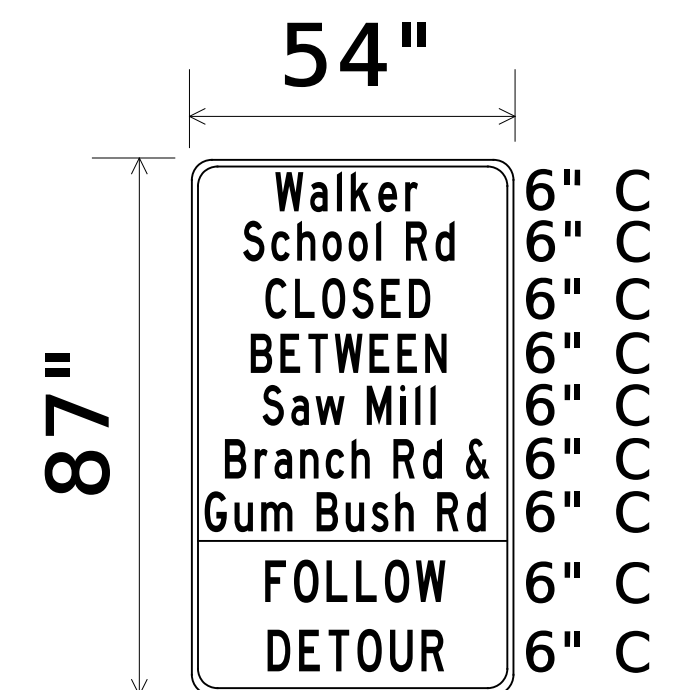


TEMPORARY PAVEMENT MARKINGS LEGEND		
SYM.	ITEM	QUANTITY
(A)	4" SOLID WHITE TEMPORARY TAPE PAVEMENT STRIPING (ITEM 865001)	471 LF
(C)	4" SOLID DOUBLE YELLOW TEMPORARY TAPE PAVEMENT STRIPING (ITEM 865001)	471 LF

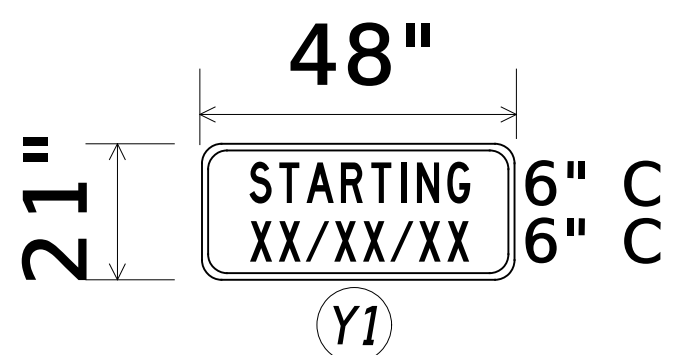
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ADDENDA / REVISIONS 	SCALE FEET	<h2>REPLACEMENT OF BR 1-453 ON WALKER SCHOOL ROAD</h2>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>CONTRACT</td> <td>BRIDGE NO.</td> <td style="text-align: center;">1-453</td> </tr> <tr> <td>T202407101</td> <td>DESIGNED BY:</td> <td>R. STEVENS</td> </tr> <tr> <td>COUNTY</td> <td>CHECKED BY:</td> <td>M. NAUMAN</td> </tr> <tr> <td>NEW CASTLE</td> <td></td> <td></td> </tr> </table>	CONTRACT	BRIDGE NO.	1-453	T202407101	DESIGNED BY:	R. STEVENS	COUNTY	CHECKED BY:	M. NAUMAN	NEW CASTLE			<h3>CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN</h3>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SECTION</td> <td>PD</td> </tr> <tr> <td>SHEET NO.</td> <td>18</td> </tr> </table>	SECTION	PD	SHEET NO.	18
CONTRACT	BRIDGE NO.	1-453																			
T202407101	DESIGNED BY:	R. STEVENS																			
COUNTY	CHECKED BY:	M. NAUMAN																			
NEW CASTLE																					
SECTION	PD																				
SHEET NO.	18																				

SPECIAL SIGNS



Y



Walker School Rd

D3-1

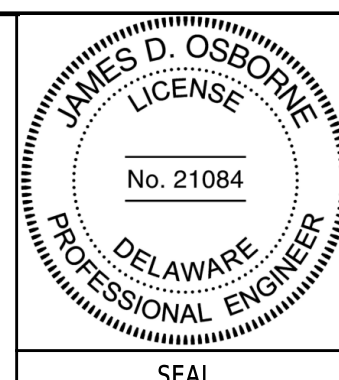
SPECIAL SIGNS NOTES

*DISPLAY (Y), ALONG WITH THE (Y1) PLAQUE, FOR 10 DAYS PRIOR TO THE IMPLEMENTATION OF DETOUR. (Y1) PLAQUE TO COMPLETELY COVER "FOLLOW DETOUR" LEGEND ON (Y) SIGN. UPON IMPLEMENTATION OF DETOUR, REMOVE (Y1) PLAQUE FROM (Y) SIGNS AND RELOCATE (Y) TO A LOCATION OUTSIDE OF CLOSURE AREA.

*RETROREFLECTIVE PRISMATIC FLUORESCENT ORANGE BACKGROUND; BLACK LEGEND

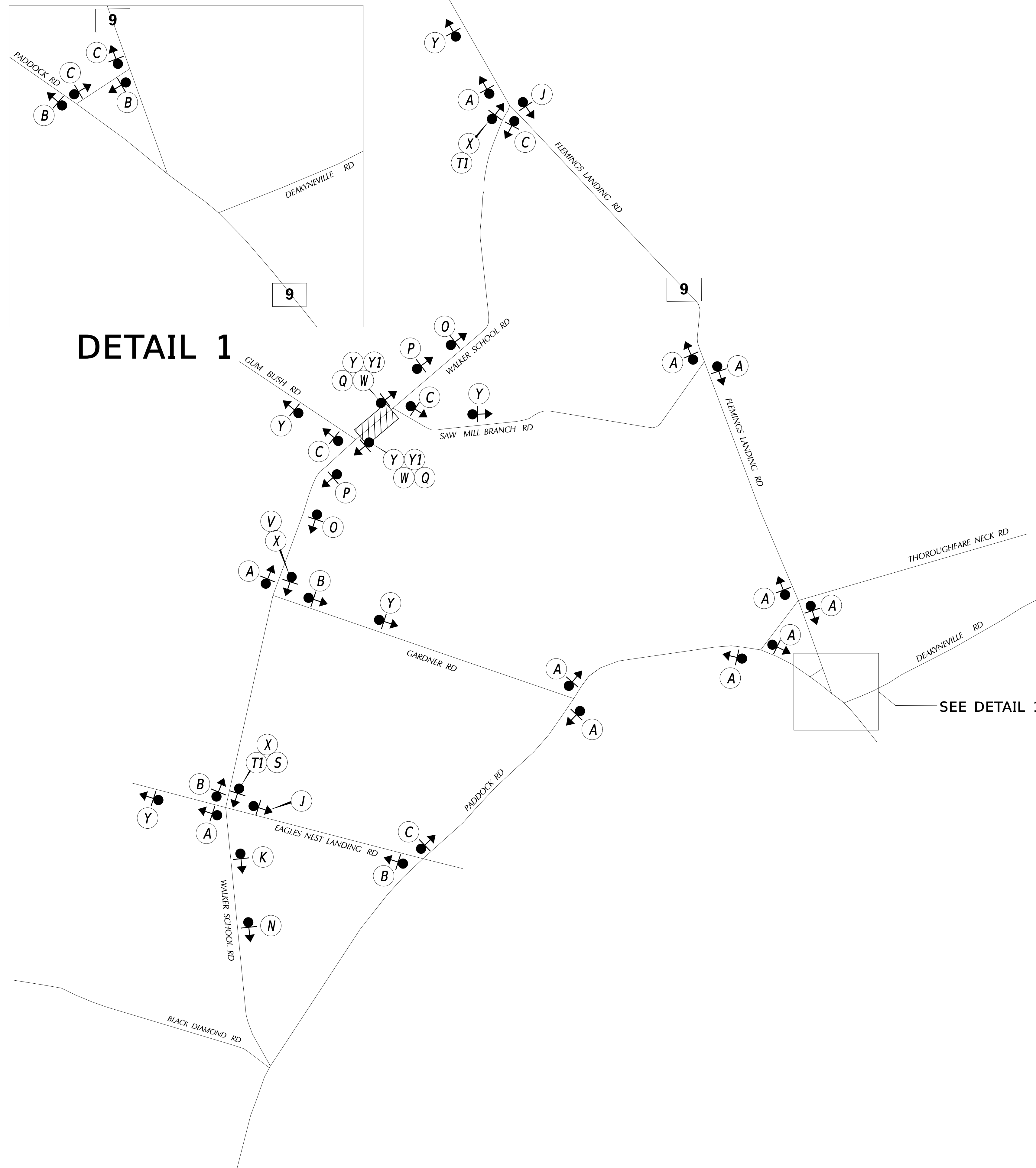
PREPARED BY
DELDOT - TRANSPORTATION SOLUTIONS
TRAFFIC SAFETY

Paul J. ...
08/14/2025
DATE



Justin ...
08/14/2025
DATE

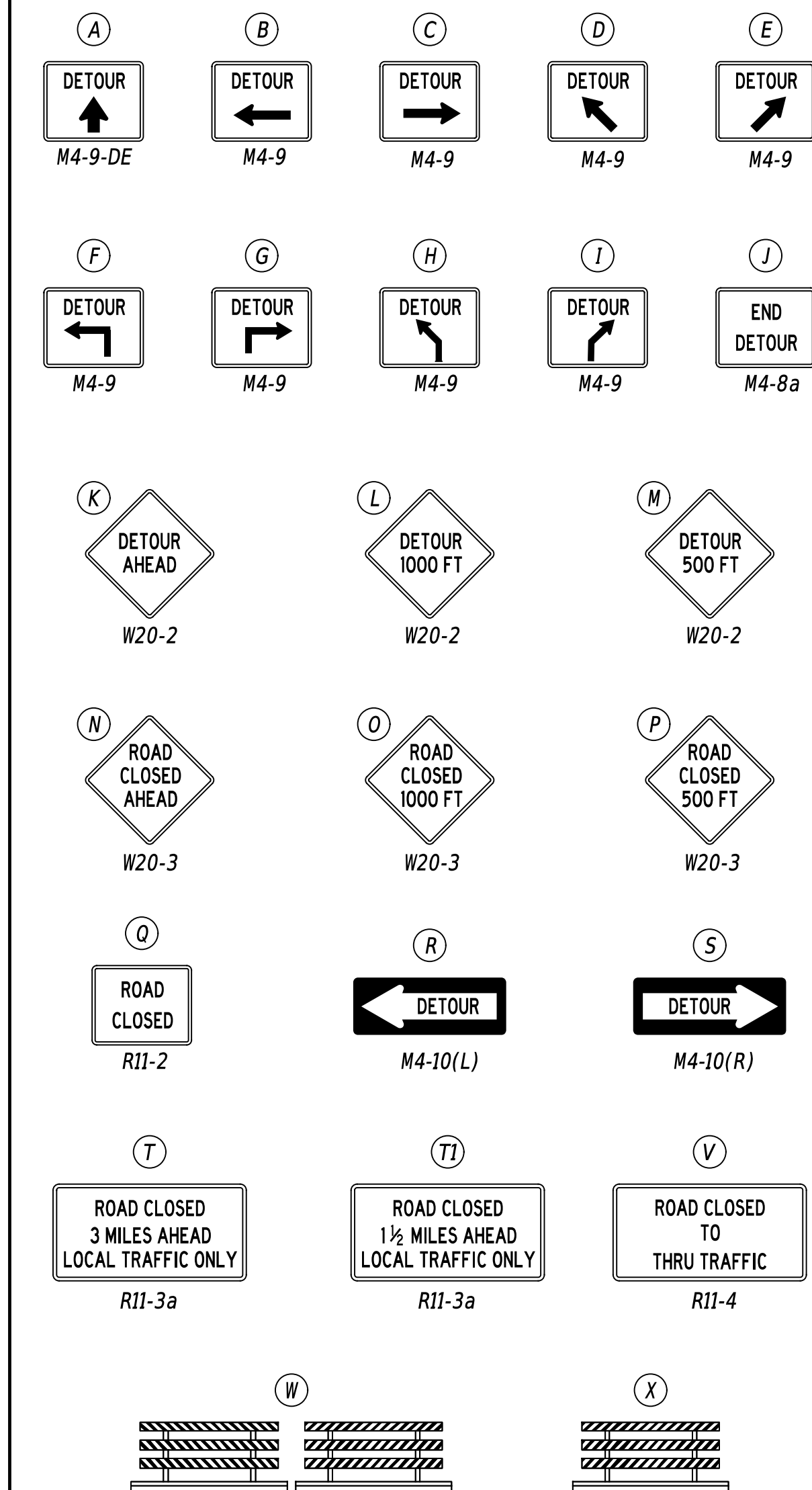
"I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS DETOUR PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."



DETAIL 1

SEE DETAIL 1

LEGEND



GENERAL NOTES

- ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR AND SHALL BE IN COMPLIANCE WITH THIS PLAN AND THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD) LATEST EDITION.
- SIGNS "N" THROUGH "Q" AND "T" AND "V", THE WORD "ROAD" SHALL BE CHANGED TO "RAMP", "RR XING" OR "BRIDGE" WHERE APPLICABLE.
- "W" TYPE 3 BARRICADES AT A ROAD CLOSURE SHALL BE PLACED COMPLETELY ACROSS THE ROADWAY, FROM CURB TO CURB, OR FROM EDGE OF ROAD TO EDGE OF ROAD, WITH THE STRIPES POSITIONED DOWNWARD TOWARD THE CENTER OF THE ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.
- ADD D3-1 "Walker School Rd" STREET NAME SIGN TO ALL A - J SIGNS ON DETOUR PLAN.

DETOUR DESCRIPTION
DRIVERS WANTING TO GO SOUTH ON WALKER SCHOOL RD WILL TAKE FLEMINGS LANDING RD, THEN TURN RIGHT ON PADDOCK RD, THEN TURN RIGHT ON EAGLES NEST LANDING RD, ARRIVING AT WALKER SCHOOL RD.
DRIVERS WANTING TO GO NORTH ON WALKER SCHOOL RD WILL TAKE EAGLES NEST LANDING RD, THEN GO LEFT ON PADDOCK RD, THEN GO LEFT ON FLEMINGS LANDING RD, ARRIVING AT WALKER SCHOOL RD.

CONCURRENCE FOR IMPLEMENTATION

James Wynn
8/12/2025
DATE

ADDENDA / REVISIONS

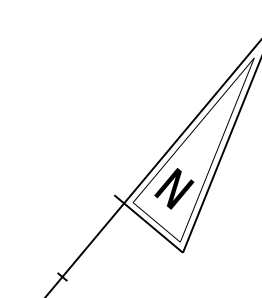
NOT TO SCALE

REPLACEMENT OF
BR 1-453 ON
WALKER SCHOOL ROAD

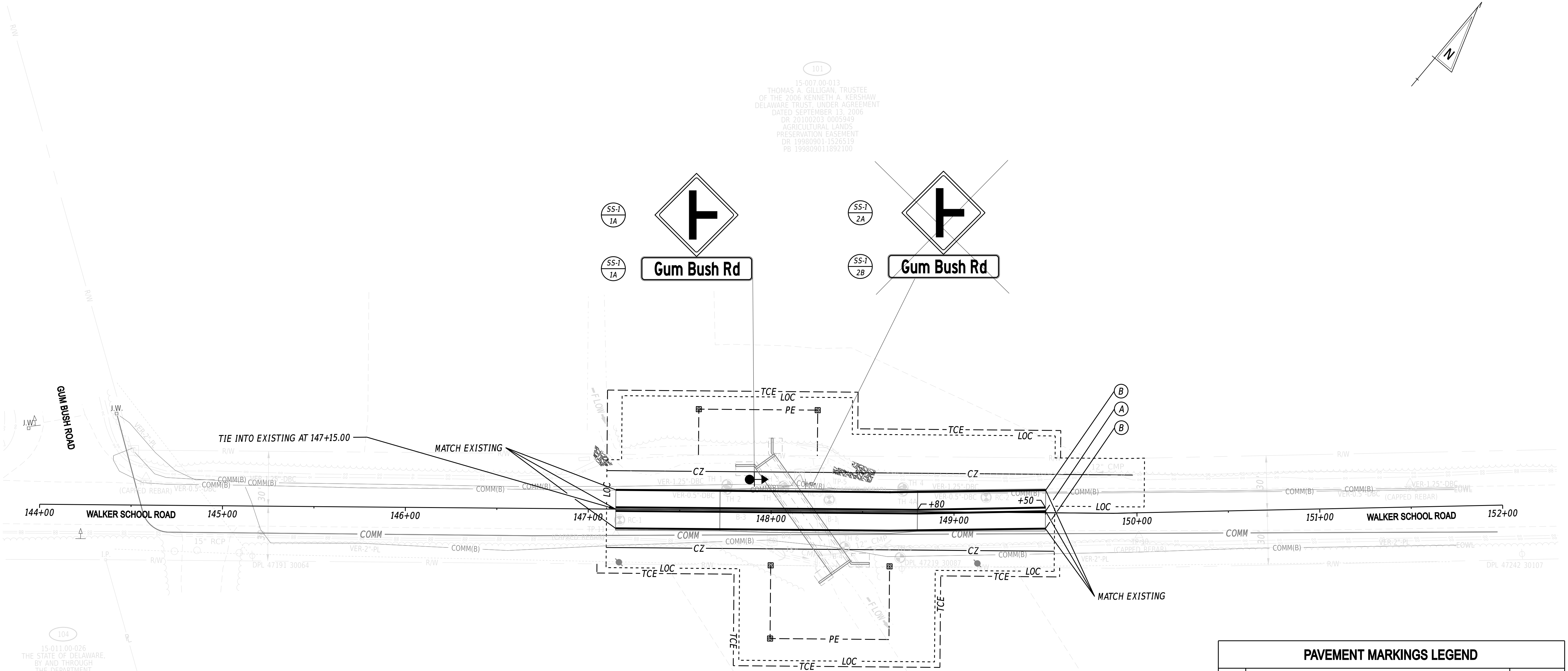
CONTRACT	PERMIT NO.	X
T202407101	DESIGNED BY: DBW	
COUNTY	CHECKED BY: GAN	
NEW CASTLE		

DETOUR PLAN -
VEHICULAR
WALKER SCHOOL RD @ BR 1-453

SECTION	SAFETY
SHEET NO.	19



101
15-007.00-013
THOMAS A. GILGIAN, TRUSTEE
OF THE 2006 KENNETH A. KERSHAW
DELAWARE TRUST UNDER AGREEMENT
DATED SEPTEMBER 13, 2006
DR 20100203 0005949
AGRICULTURAL LANDS
PRESERVATION EASEMENT
DR 19980901-1526519
PB 199809011892100



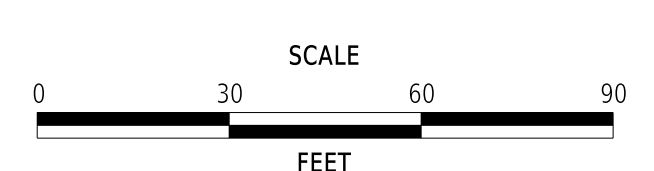
104
15-011.00-026
THE STATE OF DELAWARE,
BY AND THROUGH
THE DEPARTMENT
OF NATURAL RESOURCES AND
ENVIRONMENTAL CONTROL
DIVISION OF FISH, WILDLIFE
DR 20190617 0045487

103
15-011.00-025
CAN BE DONE FARMS, LLC
DR 20200423-0031915
AGRICULTURAL LANDS
PRESERVATION EASEMENT
DR 20071218 0106566
PB 200711140098217

PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANTITY
(B)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 6" (ITEM 861001)	471 LF
(A)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 6", SOLID DOUBLE LINE (ITEM 861001)	471 LF

#	SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	X13 / ITEM 818001 SUPPLY OF ROADSIDE FLAT SHEET ALUMINUM, TYPE IV, RETROREFLECTIVE SHEETING (SF)	X14 / ITEM 818003 SUPPLY OF ROADSIDE FLAT SHEET ALUMINUM, TYPE XI, RETROREFLECTIVE SHEETING (SF)	X15 / ITEM 819512 SIGN POST REFLECTIVE PANEL (EA)	ITEM 819003 INSTALL OR REMOVE TRAFFIC SIGNS (EACH)			ITEM 819001 PROVIDE GALVANIZED TELESCOPING SIGN POST (EACH) TO BE USED FOR NEW SIGN POSTS. CONTRACTOR TO DETERMINE LENGTH			ITEM 819002 INSTALL OR REMOVE GALVANIZED TELESCOPING SIGN POST (EACH)			POST INSTALLATION TYPE	ITEM 819010 4" HOLE, 0-6" (EACH)	ITEM 819011 4" HOLE, >6" (EACH)	SIGN DISPOSITION	ITEM 821003 INSTALLATION OF BARRIER MOUNTED SIGN SUPPORT (SF) (PROJECT CONTRACTOR ITEM)	ITEM 821005 INSTALLATION OF BARRIER MOUNTED SIGN SUPPORT (SF) (PROJECT CONTRACTOR ITEM)	ITEM 821006 REMOVAL OF SIGN ON BARRIER MOUNTED SIGN SUPPORT (SF) (PROJECT CONTRACTOR ITEM)	X14A FLAT SHEET ALUMINUM SIGN PANELS (TYPE XI SHEETING) - SIGNS ON POLES, SPAN WIRES, MAST ARMS (TRAFFIC SUPPLY)	ITEM 822500 INSTALL OVERHEAD SIGN (SF) ON SIGNAL POLES TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823003 REMOVAL OF SIGN ON SPAN WIRE OR MAST ARM (EA) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	ITEM 823001 INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM (SF) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	REMARKS		
											SIGN DISPOSITION	REMOVE	INSTALL	REMOVE	INSTALL	REMOVE	INSTALL																
822	SS-01	2A	W2-2_R(30)	1	SIDE ROAD (Perpendicular - Right) - 30x30	30	30				REMOVE	1																					
1367	SS-01	2B	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	0	9				REMOVE	1																				"Gum Bush Rd"	
822	SS-01	1A	W2-2_R(30)	1	SIDE ROAD (Perpendicular - Right) - 30x30	30	30	6.3			NEW W/ POST		1		NEW																		
1367	SS-01	1B	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	36	9	2.3			ADD TO ASSEMBLY		1																				Highway C (4") "Gum Bush Rd"
PAGE TOTALS								9	0	0		2	2	1		0	1					0	0	0	0	0	0	0	0	0			

ADDENDA / REVISIONS



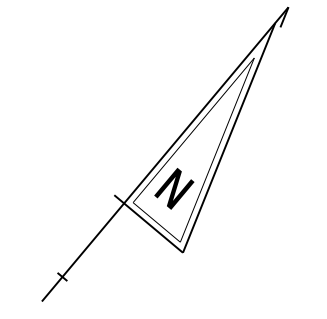
REPLACEMENT OF BR 1-453 ON WALKER SCHOOL ROAD

CONTRACT	BRIDGE NO.	1-453
T202407101	DESIGNED BY:	R. STEVENS
NEW CASTLE	CHECKED BY:	M. NAUMAN

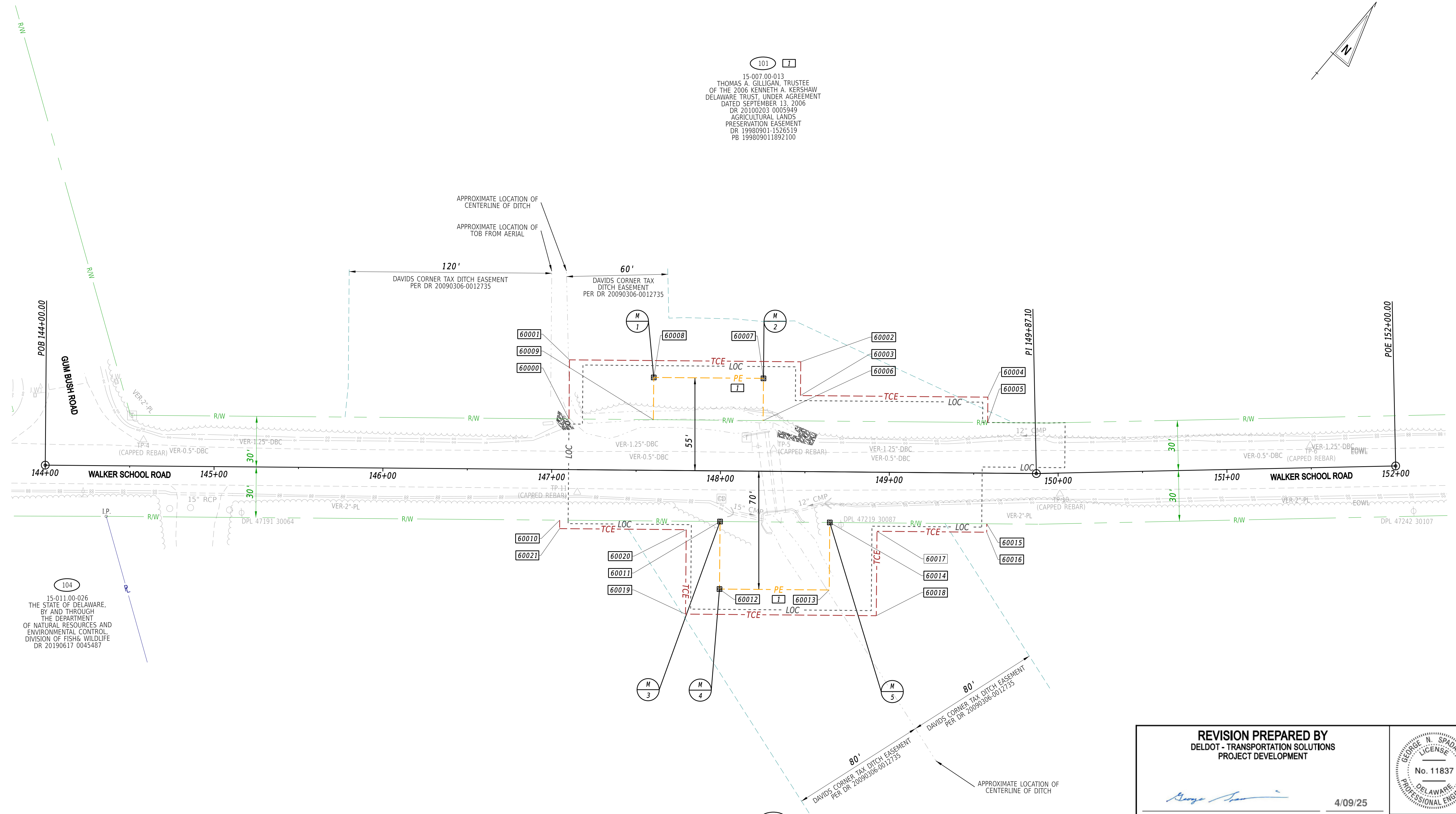
SIGNING, STRIPING AND CONDUIT PLAN

SS-01
SECTION
PD
SHEET NO.
20

10-NOV-2025 19:25 \\csM-delapow21\CS_pdf_work_dir\6472176587_99\SS01_RDSF_T202407101_DOT.dgn



101 [1]
 15-007.00-013
 THOMAS A. GILLIGAN, TRUSTEE
 OF THE 2006 KENNETH A. KERSHAW
 DELAWARE TRUST, UNDER AGREEMENT
 DATED SEPTEMBER 13, 2006
 DR 20100203 0005949
 AGRICULTURAL LANDS
 PRESERVATION EASEMENT
 DR 19980901-1526519
 PB 199809011892100



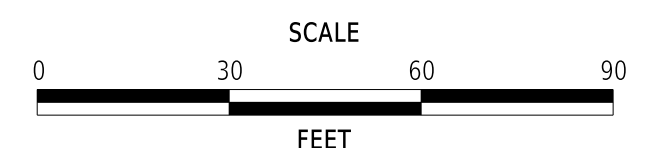
104
 15-011.00-026
 THE STATE OF DELAWARE,
 BY AND THROUGH
 THE DEPARTMENT
 OF NATURAL RESOURCES AND
 ENVIRONMENTAL CONTROL
 DIVISION OF FISH & WILDLIFE
 DR 20190617 0045467

103 [1]
 15-011.00-025
 CAN BE DONE FARMS, LLC
 DR 20200423-0031915
 AGRICULTURAL LANDS
 PRESERVATION EASEMENT
 DR 20071218-0106566
 PB 200711140098217

REVISION PREPARED BY DELDOT - TRANSPORTATION SOLUTIONS PROJECT DEVELOPMENT		
	DATE 4/09/25	
THIS SEAL APPLIES TO THE FOLLOWING SHEETS CHANGED UNDER REVISION #1: 19-20		
ORIGINAL SIGNATURE DATE: 01/10/2025 RECOMMENDED AS TO PROCESS AS PER R/W REVISION #1		
	DATE 04/09/2025	
THE FOLLOWING PARCELS WERE CHANGED UNDER REVISION#1: 101, 103		

REVISIONS

[1]	PARCEL 101 - RW ACQUISITION CHANGED FROM FEE TO PE
	PARCEL 103 - RW ACQUISITION CHANGED FROM FEE TO PE



REPLACEMENT OF
 BR 1-453 ON
 WALKER SCHOOL ROAD

CONTRACT	T202407101	BRIDGE NO.	1-453
COUNTY	NEW CASTLE	DESIGNED BY:	R. STEVENS
		CHECKED BY:	M. NAUMAN

RIGHT-OF-WAY PLAN

SECTION	PD
SHEET NO.	21

31-OCT-2025 16:28 \\srm-deltodp\dw21\CS_pdf_work_dir\640416587_98RW01_RDSF_T202407101_DOT.dgn

ASSESSMENT NUMBER	OWNERSHIP OF RECORD							TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)	PAGE NUMBER
15-007.00-013	(101) THOMAS A. GILLIGAN, TRUSTEE OF THE 2006 KENNETH A. KERSHAW DELAWARE TRUST, UNDER AGREEMENT DATED SEPTEMBER 13, 2006							[] PE	DR 20100203-0005949	D - 373.246	19
PT. NO.	ALIGN. NO.	STATION	OFFSET*	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS**
60009	1000	147+60.00	-30.000	502640.1825	605624.7283	N 39°28'53" W	25.000				
60008	1000	147+60.00	-55.000	502659.4783	605608.8326	N 50°31'07" E	65.000				
60007	1000	148+25.00	-55.000	502700.8070	605659.0017	S 39°28'53" E	25.000				
60006	1000	148+25.00	-30.000	502681.5112	605674.8974	S 50°31'07" W	65.000				
60009	1000	147+60.00	-30.000	502640.1825	605624.7283						

FIGURE 40000 AREA = 1625.00 SQ. FT. (0.037 ACRES).
DEED RECORD OF ACQUISITION:

REMARKS: 1612.61 SF TAX DITCH EASEMENT PER DR 20090306-0012735, 1612.61 SF AGRICULTURAL LANDS PRESERVATION EASEMENT PER DR 19980901-1526519 AND PB 199809011892100

ASSESSMENT NUMBER	OWNERSHIP OF RECORD							TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)	PAGE NUMBER
15-007.00-013	(101) THOMAS A. GILLIGAN, TRUSTEE OF THE 2006 KENNETH A. KERSHAW DELAWARE TRUST, UNDER AGREEMENT DATED SEPTEMBER 13, 2006							TCE	DR 20100203-0005949	D - 373.246	19
PT. NO.	ALIGN. NO.	STATION	OFFSET*	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS**
60000	1000	147+10.00	-30.000	502608.3912	605586.1367	N 39°28'53" W	35.000				
60001	1000	147+10.00	-65.000	502635.4053	605563.8828	N 50°31'07" E	137.000				
60002	1000	148+47.00	-65.000	502722.5135	605669.6238	S 39°28'53" E	20.000				
60003	1000	148+47.00	-45.000	502707.0769	605682.3403	N 50°31'07" E	111.000				
60004	1000	149+58.00	-45.000	502777.6536	605768.0137	S 39°28'53" E	15.000				
60005	1000	149+58.00	-30.000	502766.0761	605777.5511	S 50°31'07" W	133.000				
60006	1000	148+25.00	-30.000	502681.5112	605674.8974	N 39°28'53" W	25.000				
60007	1000	148+25.00	-55.000	502700.8070	605659.0017	S 50°31'07" W	65.000				
60008	1000	147+60.00	-55.000	502659.4783	605608.8326	S 39°28'53" E	25.000				
60009	1000	147+60.00	-30.000	502640.1825	605624.7283	S 50°31'07" W	50.000				
60000	1000	147+10.00	-30.000	502608.3912	605586.1367						

FIGURE 50000 AREA = 4835.00 SQ. FT. (0.111 ACRES).
DEED RECORD OF ACQUISITION:

ASSESSMENT NUMBER	OWNERSHIP OF RECORD							TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)	PAGE NUMBER
15-011.00-025	(103) CAN BE DONE FARMS, LLC							[] PE	DR 20200423-0031915	D - 195.850	19
PT. NO.	ALIGN. NO.	STATION	OFFSET*	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS**
60014	1000	148+65.00	30.000	502660.6343	605743.9203	S 39°28'53" E	40.000				
60013	1000	148+65.00	70.000	502629.7610	605769.3533	S 50°31'07" W	65.000				
60012	1000	148+00.00	70.000	502588.4323	605719.1842	N 39°28'53" W	40.000				
60011	1000	148+00.00	30.000	502619.3056	605693.7512	N 50°31'07" E	65.000				
60014	1000	148+65.00	30.000	502660.6343	605743.9203						

FIGURE 40001 AREA = 2600.00 SQ. FT. (0.060 ACRES).
DEED RECORD OF ACQUISITION:

REMARKS: 2600.00 SF TAX DITCH EASEMENT PER DR 20090306-0012735, 2600.00 SF AGRICULTURAL LANDS PRESERVATION EASEMENT PER DR 20071218-0106566 AND PB 200711140098217

ASSESSMENT NUMBER	OWNERSHIP OF RECORD							TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)	PAGE NUMBER
15-011.00-025	(103) CAN BE DONE FARMS, LLC							TCE	DR 20200423-0031915	D - 195.850	19
PT. NO.	ALIGN. NO.	STATION	OFFSET*	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS**
60010	1000	147+05.00	30.000	502558.9021	605620.4271	N 50°31'07" E	95.000				
60011	1000	148+00.00	30.000	502619.3056	605693.7512	S 39°28'53" E	40.000				
60012	1000	148+00.00	70.000	502588.4323	605719.1842	N 50°31'07" E	65.000				
60013	1000	148+65.00	70.000	502629.7610	605769.3533	N 39°28'53" W	40.000				
60014	1000	148+65.00	30.000	502660.6343	605743.9203	N 50°31'07" E	93.000				
60015	1000	149+58.00	30.000	502719.7661	605815.7007	S 39°28'53" E	5.000				
60016	1000	149+58.00	35.000	502715.9070	605818.8798	S 50°31'07" W	65.000				
60017	1000	148+93.00	35.000	502674.5783	605768.7107	S 39°28'53" E	50.000				
60018	1000	148+93.00	85.000	502635.9867	605800.5020	S 50°31'07" W	113.000				
60019	1000	147+80.00	85.000	502564.1383	605713.2849	N 39°28'53" W	50.000				
60020	1000	147+80.00	35.000	502602.7299	605681.4936	S 50°31'07" W	75.000				
60021	1000	147+05.00	35.000	502555.0430	605623.6062	N 39°28'53" W	5.000				
60010	1000	147+05.00	30.000	502558.9021	605620.4271						

FIGURE 50001 AREA = 4315.00 SQ. FT. (0.099 ACRES).
DEED RECORD OF ACQUISITION:

LEGEND	
RW	AREA OF ACQUISITION
PE	PERMANENT EASEMENT
TCE	TEMPORARY CONSTRUCTION EASEMENT
RW/PE	RIGHT-OF-WAY BY PE
*	"-" OFFSET IS LEFT OF BASELINE
**	"-" CURVE TURNS TO THE LEFT

REVISIONS
[] PARCEL 101 - RW ACQUISITION CHANGED FROM FEE TO PE
PARCEL 103 - RW ACQUISITION CHANGED FROM FEE TO PE

NOT TO SCALE

REPLACEMENT OF
BR 1-453 ON
WALKER SCHOOL ROAD

CONTRACT	BRIDGE NO.	1-453
T202407101	DESIGNED BY:	R. STEVENS
COUNTY	CHECKED BY:	M. NAUMAN
NEW CASTLE		

RIGHT-OF-WAY DATA SHEET		SECTION
		PD
		SHEET NO.
		22