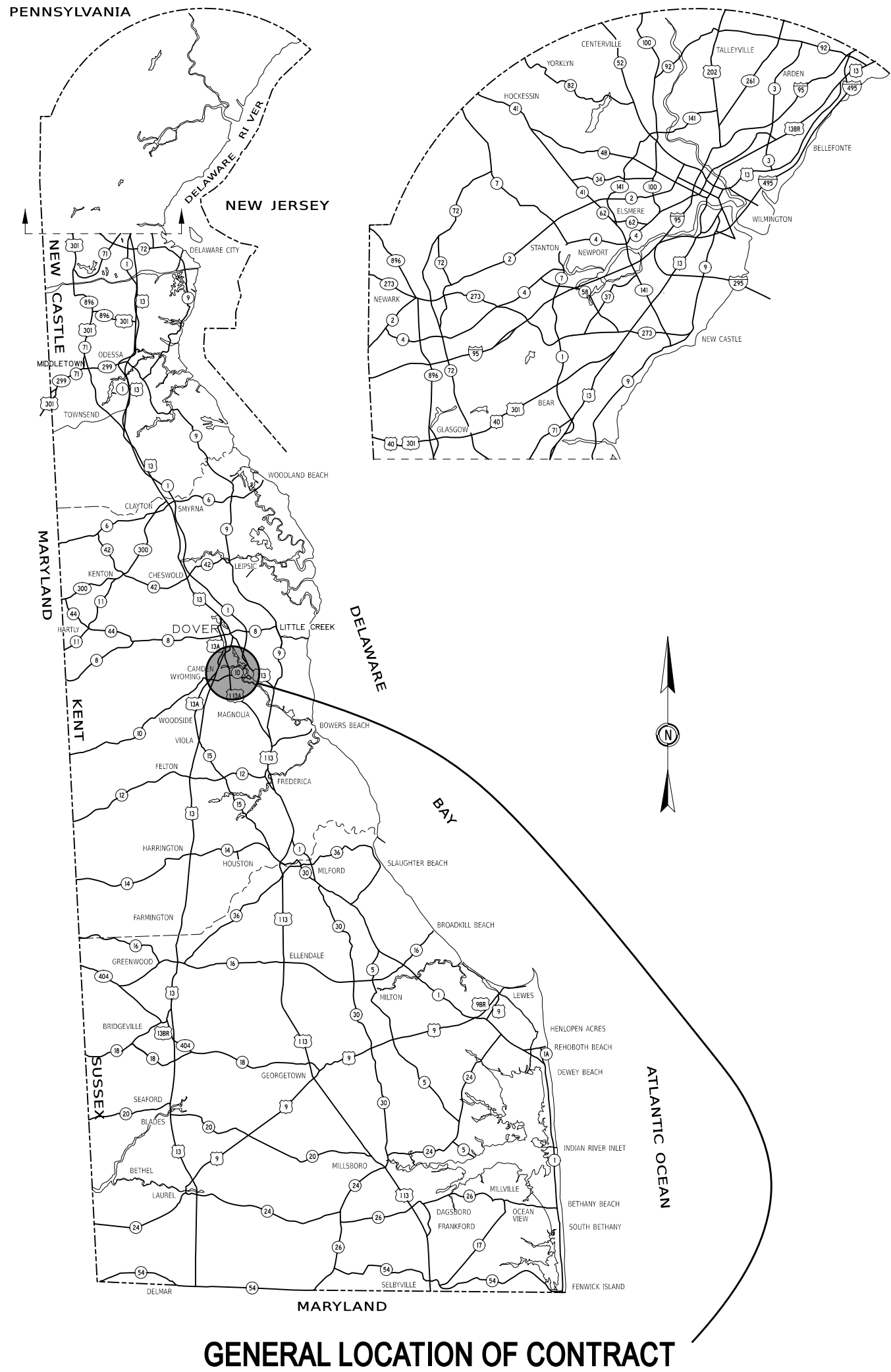


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THE STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION



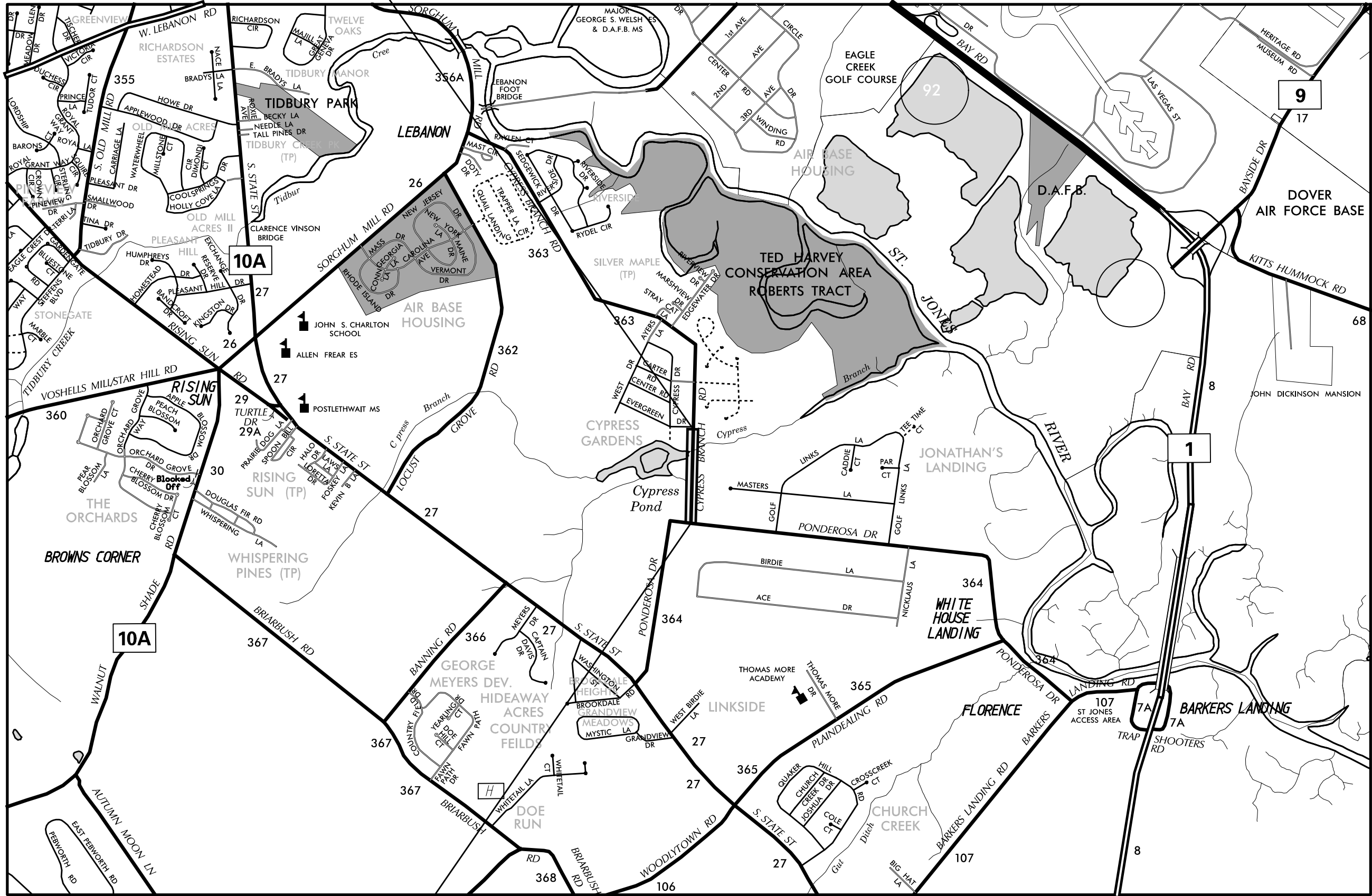
CONSTRUCTION PLANS FOR:

RESILIENCY IMPROVEMENTS, KC, CYPRESS BRANCH ROAD

CONTRACT NUMBER: T202566204
FEDERAL AID PROJECT NUMBER: N/A

COUNTY: KENT M.R. #: K363

END CONTRACT
STATION 22+78.06



BEGIN CONTRACT
STATION 17+48.00

LOCATION MAP
NOT TO SCALE

U.S. CUSTOMARY
UNITS

DESIGN DESIGNATION

MRD #: K363	ROAD NAME: CYPRESS BRANCH ROAD		
FUNCTIONAL CLASS: LOCAL ROAD	D.H.V. PROJECTED:	YEAR:	
TYPE OF CONSTRUCTION: RECONSTRUCTION	DESIGN SPEED: 35 M.P.H.		
A.A.D.T. CURRENT: 2310	YEAR: 2023	TRUCKS: 0 %	
A.A.D.T. PROJECTED:	YEAR:	DIRECTION OF DISTRIBUTION: 58 %	

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA/ REVISIONS

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME
92-072-01	BR. 363A, K363 OVER CYPRESS BRANCH SOUTH OF LEBANON
1869	CYPRESS BRANCH ROAD PAVEMENT REHAB

APPROVED FOR ADVERTISEMENT

DIRECTOR OF PLANNING

07/21/2026
DATE

ADDENDA / REVISIONS

RESILIENCY IMPROVEMENTS, KC,
CYPRESS BRANCH ROAD

CONTRACT T202566204	BRIDGE NO. N/A	SECTION AEC
COUNTY KENT	DESIGNED BY: M. PHILBIN	SHEET NO.
	CHECKED BY: D. SEMPLE	

INDEX OF SHEETS	
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ADDENDUM PREPARED BY AECOM TECHNICAL SERVICES, INC.		
THIS SEAL APPLIES TO THE FOLLOWING SHEETS CHANGED UNDER ADDENDUM #X: XX, XX-XX, XX	DATE	SEAL

REVISION PREPARED BY AECOM TECHNICAL SERVICES, INC.		
THIS SEAL APPLIES TO THE FOLLOWING SHEETS CHANGED UNDER REVISION #X: XX, XX-XX, XX	DATE	SEAL

ADDENDA / REVISIONS		NOT TO SCALE	RESILIENCY IMPROVEMENTS, KC, CYPRESS BRANCH ROAD	CONTRACT	BRIDGE NO.	N/A	ADDENDA AND REVISIONS	SECTION
				T202566204	DESIGNED BY: M. PHILBIN			AEC
				COUNTY	CHECKED BY: D. SEMPLE			SHEET NO.
				KENT				3

MANMADE ROADSIDE FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID
BARRIER - DOUBLE-FACED, PERMANENT	BARRIER, TYPE "X"		
BARRIER - SINGLE-FACED, PERMANENT, TEST LEVEL 4 / TEST LEVEL 5			
BARRIER - HIGH TENSION CABLE (HTCB)			
BARRIER - HTCB END TERMINAL			
BOLLARD - STEEL POLE			
BOLLARD - WOOD POST			
CURB, TYPE 1 AND TYPE 3	CURB, TYPE "X"		
CURB, TYPE 2			
CURB & GUTTER, TYPE 1	C&G, TYPE "X"		
CURB & GUTTER, TYPE 2			
CURB & GUTTER, TYPE 3			
CURB OPENING - SUMP / ON GRADE			
CURB/SW OPENING - ADJACENT CURB			
CURB/SW OPENING - NON-ADJACENT CURB			
FENCE - CHAINLINK OR STRANDED			
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			
GUARDRAIL - END TREATMENT, TYPE 1			
GUARDRAIL - END TREATMENT, TYPE 2			
GUARDRAIL - END TREATMENT, TYPE 3			
IMPACT ATTENUATOR			
LAMP AND POST - RESIDENTIAL	LAMP 		
MAILBOX	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. 		
DRAINAGE JUNCTION BOX	J.B. 		
DRAINAGE MANHOLE	ⓓ		
DRAINAGE PIPE AND FLOW ARROW	SIZE/TYPE LABEL 		
FLARED END SECTION			
RIPRAP - AREA FEATURE			
RIPRAP - LINEAR FEATURE			
SAFETY END STRUCTURE			
UNDERDRAIN			
UNDERDRAIN OUTLET			

ADDENDA / REVISIONS	

UTILITY FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
COMMUNICATIONS DISTRIBUTION BOX		
COMMUNICATIONS MANHOLE	ⓓ	Ⓢ
COMMUNICATIONS TEST POINT	T	
COMMUNICATIONS - UNDERGROUND	COMM(A)	COMM
ELECTRIC - UNDERGROUND	E(A)	E
ELECTRIC MANHOLE	ⓔ	ⓔ
ELECTRIC METER	EM	
ELECTRIC TRANSFORMER	E	
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	B	
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	U	
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)		
OVERLAY PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS		
RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS		
DRIVEWAY AND ENTRANCE PAVEMENT - SEE NOTES FOR MATERIALS AND DEPTHS		

NATURAL ROADSIDE FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
HEDGEROW OR THICKET		
MARSH BOUNDARY LINE		
MEAN HIGH WATER LINE	MHW	
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.)	

IDENTIFIERS	
FEATURE DESCRIPTION	ID
ABANDON BY CONTRACTOR	
ABANDON BY OTHERS	
ADJUST BY CONTRACTOR	
ADJUST BY OTHERS	
BEST MANAGEMENT PRACTICE	
BUS STOP PAD / TYPE	
BUS STOP WITH SHELTER PAD / TYPE	
CONCRETE SAFETY BARRIER	
CONVERT TO JUNCTION BOX	
CONVERT TO DRAINAGE MANHOLE	
DO NOT DISTURB	
ENERGY DISSIPATOR	
FILL WITH FLOWABLE FILL	
LANDSCAPE PLANTINGS	
PEDESTRIAN CONNECTION / TYPE	
PEDESTRIAN CONNECTION / TYPE WITHOUT DETECTABLE WARNING SYSTEM	
RELOCATE BY CONTRACTOR	
RELOCATE BY OTHERS	
RELOCATE BY PROPERTY OWNER	
REMOVE BY CONTRACTOR	
REMOVE BY OTHERS	
REMOVE BY TRAFFIC CONTRACTOR	
RIGHT-OF-WAY MONUMENT	

NOT TO SCALE

RESILIENCY IMPROVEMENTS, KC, CYPRESS BRANCH ROAD

CONTRACT T202566204	BRIDGE NO.	N/A
COUNTY KENT	DESIGNED BY:	M. PHILBIN
	CHECKED BY:	D. SEMPLE

LEGEND	SECTION AEC SHEET NO. 4
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GENERAL NOTES

1.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED JANUARY 2025 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED JANUARY 2025.
2.

ELECTRONIC DESIGN DATA FILES THAT WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR, INCLUDE:
- (X)

NONE

()

ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.

()

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.
3.

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

()	CROSS SECTIONS
()	RIGHT-OF-WAY PLANS

PROJECT NOTES

SECTION 100

1.

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.
2.

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.
3.

NIGHT WORK IS NOT PERMITTED ON THIS PROJECT UNLESS THE CONTRACTOR OBTAINS: APPROVAL FROM THE ENGINEER, ACCEPTABLE RESPONSES ON NIGHT WORK SURVEYS, AND ACCEPTANCE FROM THE MUNICIPALITY. METHOD AND FORMAT OF NIGHT WORK SURVEYS WILL BE PROVIDED BY THE ENGINEER UPON REQUEST. NIGHT WORK, SURVEYS, AND COORDINATION WITH MUNICIPALITIES IS NOT COMPENSABLE AND THE TIME TO COMPLETE THE SURVEYS IS NOT EXCUSABLE."

SECTION 200

4.

THE CONTRACTOR SHALL REMOVE AND RESET ALL MAILBOXES TO MAINTAIN MAIL SERVICE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RELOCATE MAILBOXES AS REQUIRED BY THE PROPOSED GEOMETRICS AND AS DIRECTED BY THE ENGINEER. WHEN RELOCATING MAILBOXES IN CURBED SECTIONS, THE FACE OF THE MAILBOX SHALL BE FLUSH WITH THE BACK EDGE OF CURB. WHEN RELOCATING MAILBOXES IN OPEN SECTIONS, THE FACE OF THE MAILBOX SHALL SET BACK 8 INCHES FROM THE EDGE OF THE PAVED SHOULDER. THE BOTTOM OF THE MAILBOX SHALL BE POSITIONED IN ACCORDANCE WITH THE LATEST VERSION OF THE UNITED STATES POSTAL SERVICE GUIDELINES. MAILBOXES LOCATED AT DRIVEWAY ENTRANCES SHALL BE PLACED ON THE FAR SIDE OF THE DRIVEWAY IN THE DIRECTION OF TRAVEL. POSTS BEING RESET IN CONCRETE SIDEWALK SHALL BE IN AN APPROPRIATE SIZE PVC SLEEVE. ACCEPTABLE POST SHALL BE 4 INCH X 4 INCH WOOD POST OR 4 INCH DIAMETER WOOD POST. FOR RELOCATING MULTIPLE MAILBOXES TOGETHER ALL POST SHALL BE SEPARATED BY A DISTANCE OF NO LESS THAN 3/4 OF THEIR FULL HEIGHT ABOVE THE GROUND. MULTIPLE MAILBOXES ATTACHED TO A SINGLE HORIZONTAL BOARD SHALL NOT BE LOCATED INSIDE THE CLEARZONE. EACH MAILBOX SHALL BE PLACED ON AN INDIVIDUAL POST MEETING THE CRITERIA ABOVE. ALL MAILBOXES SHALL BE SET NOT TO IMPEDE THE MINIMUM PAR (PEDESTRIAN ACCESS ROUTE) WIDTH AS DETERMINED BY THE CURRENT EDITION OF THE PEDESTRIAN ACCESSIBILITY STANDARDS FOR FACILITIES IN THE PUBLIC RIGHT OF WAY.IF MAILBOXES ARE NOT SET IN ACCORDANCE WITH THE ABOVE DIRECTIONS, RESETTING OF THE MAILBOXES WILL BE AT THE COST OF THE CONTRACTOR. COST FOR ALL WORK AND MATERIALS SHALL BE PAID UNDER ITEM 201000 - CLEARING AND GRUBBING.
5.

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 210000 AS NOTED IN SECTION 200 OF THE PROJECT NOTES.

SECTION 700

6.

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.

SECTION 900

7.

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

8.

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).
9.

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;

1) APPROVE THE USE OF THE PROPOSED STAGING AND STOCKPILE AREA(S);

2) REJECT THE REQUEST; OR

3) 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.
10.

ALL PROPOSED WORK WILL OCCUR WITHIN THE EXISTING ROW.

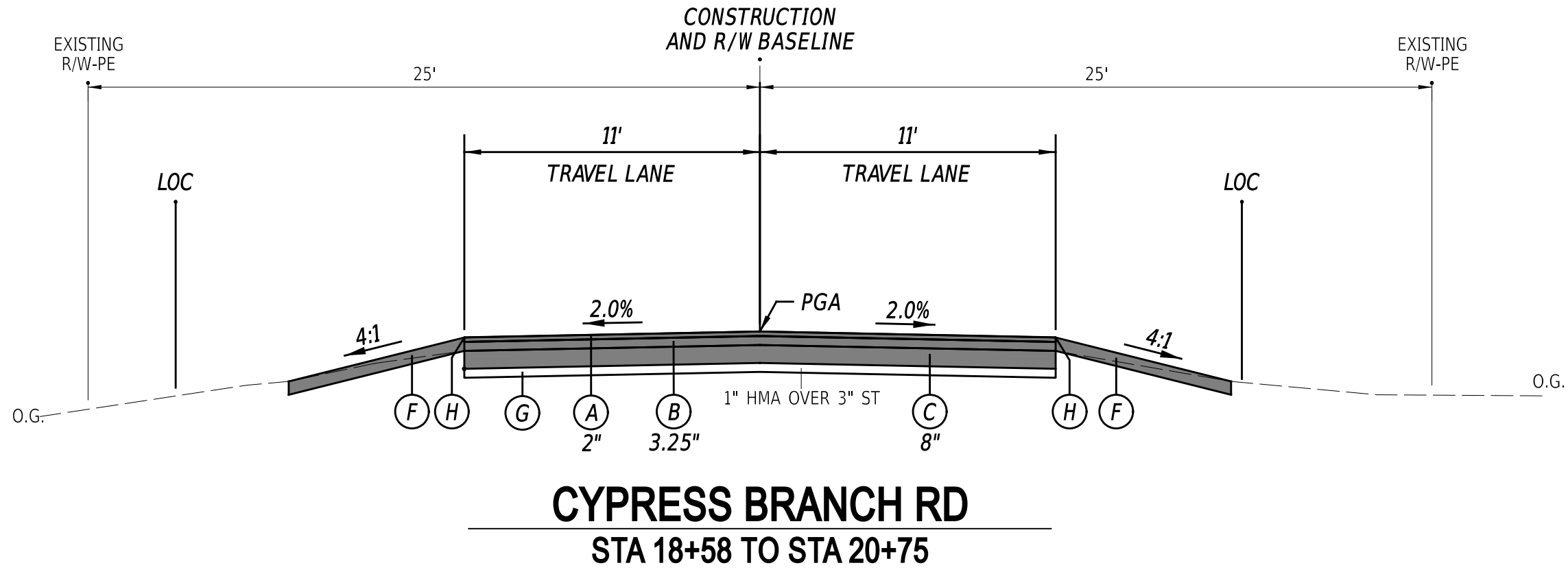
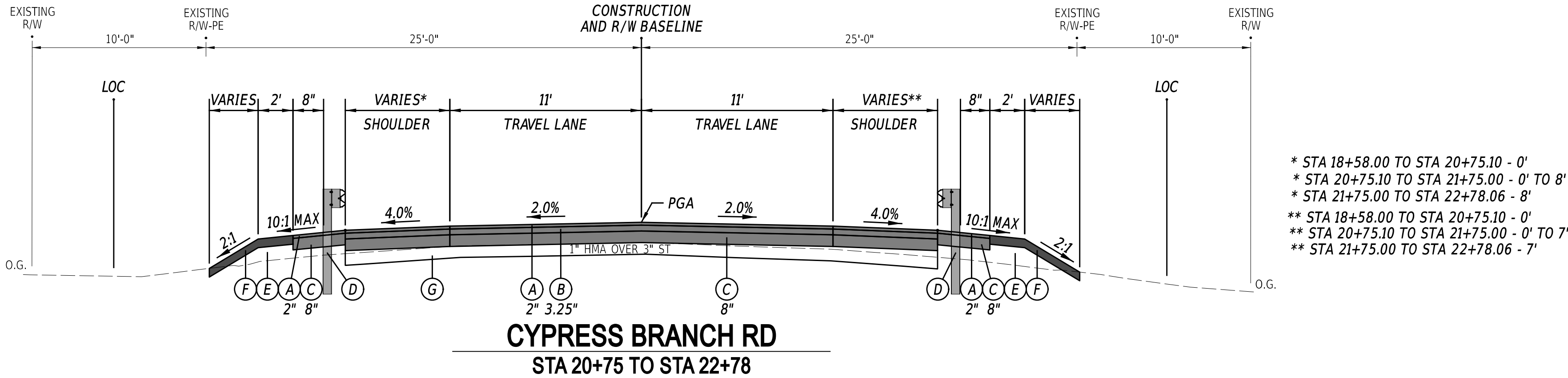
EARTHWORK SUMMARY

EXCAVATION	
EXCAVATION FROM CROSS SECTIONS	236 C.Y.
ROCK EXCAVATION FOR ROADWAY AND TRENCHES	0 C.Y.
TOPSOIL STRIPPING	127 C.Y.
TOTAL EXCAVATION	363 C.Y.
EXCAVATION AVAILABLE FOR EMBANKMENT	
EXCAVATION MEETING BORROW TYPE 'A'	0 C.Y.
EXCAVATION MEETING BORROW TYPE 'F'	0 C.Y.
EXCAVATION MEETING TOPSOIL	0 C.Y.
EMBANKMENT REQUIREMENTS	
BORROW TYPE 'A' REQUIRED (INCLUDING UNDERCUT)	148 C.Y.
BORROW TYPE 'F' REQUIRED	210 C.Y.
TOPSOIL REQUIRED	127 C.Y.
MATERIAL BALANCE ("+"= EXCESS, "-"= NEED)	
BORROW TYPE 'A'	-148 C.Y.
BORROW TYPE 'F'	-210 C.Y.
TOPSOIL	-127 C.Y.
UNSUITABLE MATERIAL	363 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	RESILIENCY IMPROVEMENTS, KC, CYPRESS BRANCH ROAD	CONTRACT	BRIDGE NO.	N/A	NOTES	SECTION
				T202566204	DESIGNED BY: M. PHILBIN			AEC
				COUNTY				SHEET NO.
				KENT	CHECKED BY: D. SEMPLE	5		

LEGEND	
(A)	ITEM 401005 - SUPERPAVE TYPE C, 9.5 mm, PG 64-22 (CARBONATE STONE)
(B)	ITEM 401014 - SUPERPAVE TYPE B, PG 64-22
(C)	ITEM 301001 - GABC
(D)	ITEM 720021 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31
(E)	ITEM 209006 - BORROW, TYPE F
(F)	ITEM 908004 - TOPSOIL, 6" DEPTH ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND
(G)	ITEM 209001 - BORROW, TYPE A
(H)	SAFETY EDGE FOR ROADWAY PAVEMENT

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



ADDENDA / REVISIONS	

NOT TO SCALE

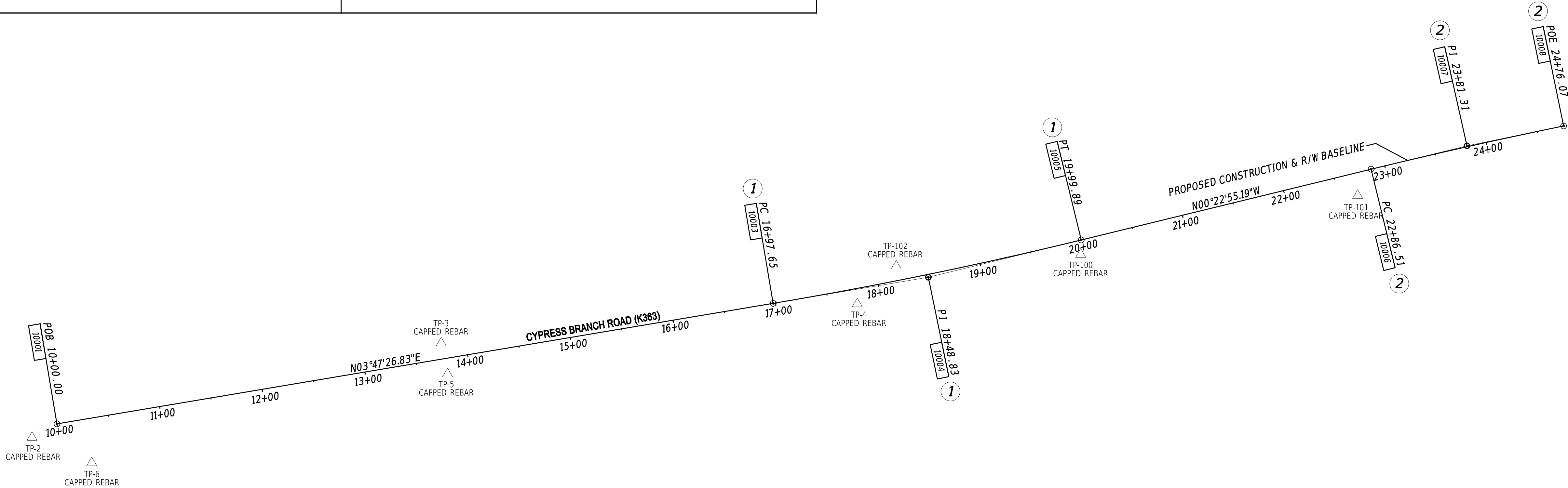
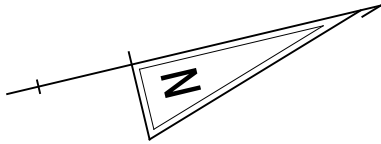
RESILIENCY IMPROVEMENTS, KC, CYPRESS BRANCH ROAD

CONTRACT	BRIDGE NO.	N/A
T202566204	DESIGNED BY:	M. PHILBIN
COUNTY	CHECKED BY:	D. SEMPLE
KENT		

TYPICAL SECTIONS

SECTION
AEC
SHEET NO.
6

CIRCULAR CURVE ①				CIRCULAR CURVE ②			
Element: Circular	STATION	NORTHING	EASTING	Element: Circular	STATION	NORTHING	EASTING
PC(10003)	16+97.65	398756.2339	636331.0457	PC(10006)	22+86.51	399344.8931	636338.1223
PI(10004)	18+48.83	398907.0898	636341.0412	PI(10007)	23+81.31	399439.6822	636337.4903
CC(11001)		399030.6048	632190.1255	CC(11002)		399378.5480	641385.9201
PT(10005)	19+99.89	399058.2731	636340.0332	PT(10008)	24+76.07	399534.4281	636340.4175
Radius:	4150.00			Radius:	5047.91		
Delta:	04°10'22.03" Left			Delta:	02°09'05.69" Right		
Degree of Curvature:	01°22'50.24"			Degree of Curvature:	01°08'06.14"		
Length:	302.24			Length:	189.56		
Tangent:	151.19			Tangent:	94.79		
Chord:	302.17			Chord:	189.55		
Middle Ordinate:	2.75			Middle Ordinate:	0.89		
External:	2.75			External:	0.89		
Tangent Direction:	N03°47'26.83"E			Tangent Direction:	N00°22'55.19"W		
Radial Direction:	S86°12'33.17"E			Radial Direction:	N89°37'04.81"E		
Chord Direction:	N01°42'15.82"E			Chord Direction:	N00°41'37.65"E		
Radial Direction:	N89°37'04.81"E			Radial Direction:	S88°13'49.503"E		
Tangent Direction:	N00°22'55.19"W			Tangent Direction:	N01°46'10.497"E		

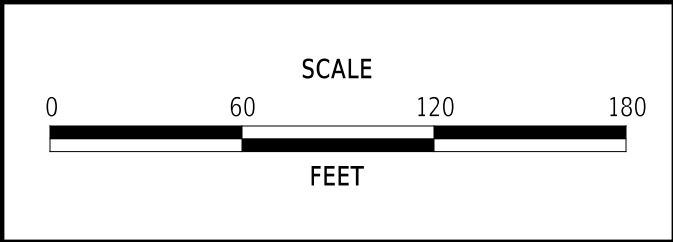


CONSTRUCTION ALIGNMENT CONTROL				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
10001	10+00.00	0.00	398060.1126	636284.9218
10002	15+00.00	0.00	398559.0187	636317.9786

HORIZONTAL / VERTICAL CONTROL DATA					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEV.
TP-1	9+74.21	456.11	398022.2847	636739.4610	23.87
TP-2	9+92.31	27.28	398033.7938	636292.1132	15.81
TP-3	13+76.89	-15.33	398437.1890	636294.5430	10.24
TP-4	17+77.00	14.61	398834.7750	636350.1330	6.29
TP-5	13+77.95	15.01	398436.2440	636324.8870	11.26
TP-6	10+26.73	42.57	398083.9680	636329.1650	16.49
TP-100	19+96.12	13.40	399054.5830	636353.4520	3.83
TP-101	22+68.03	21.44	399326.5570	636359.6820	3.22
TP-102	18+20.53	-13.96	398879.4600	636323.4080	5.43

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).

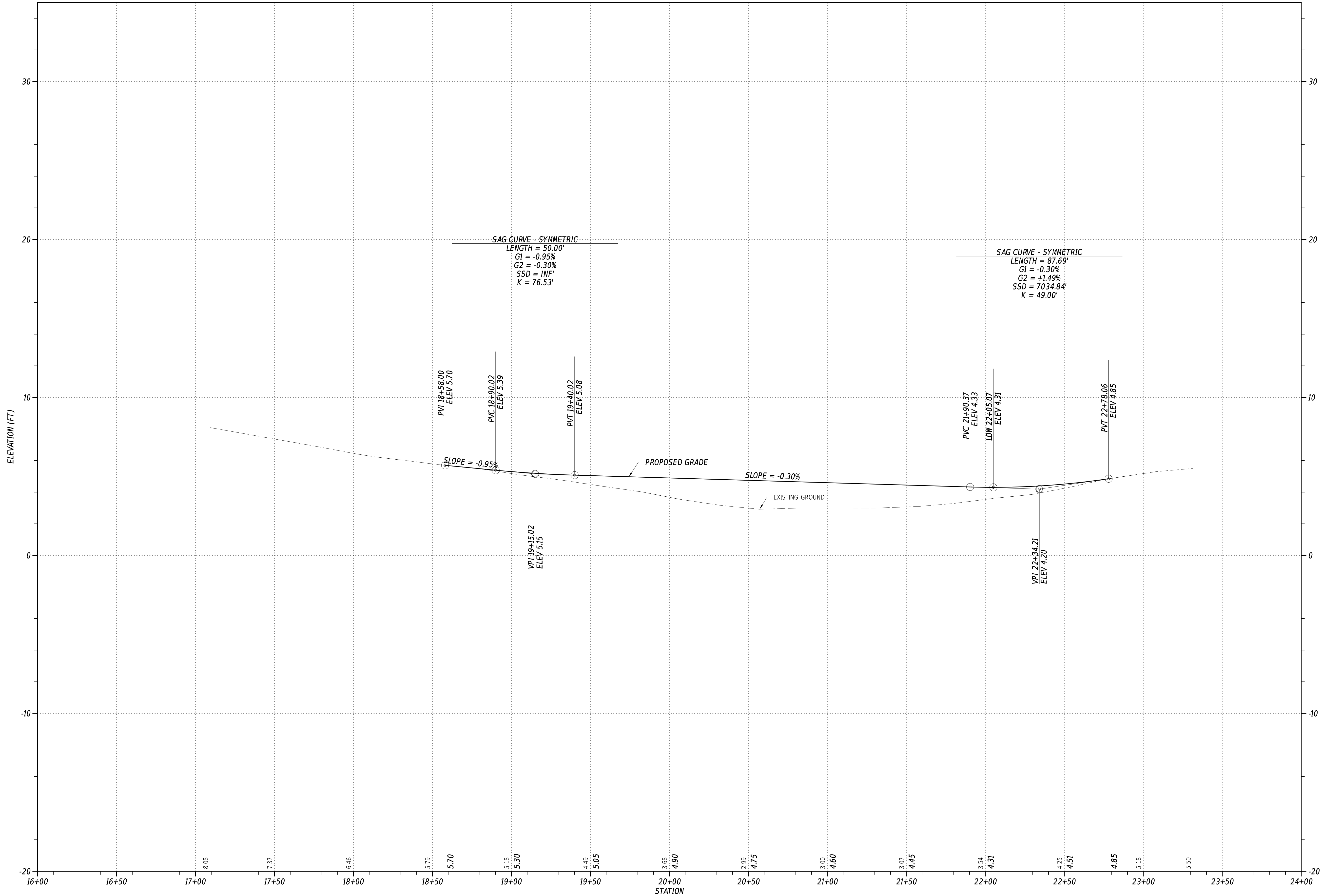
ADDENDA / REVISIONS	



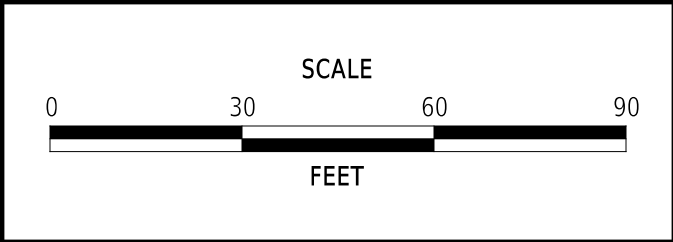
RESILIENCY IMPROVEMENTS, KC,
CYPRESS BRANCH ROAD

CONTRACT	BRIDGE NO.	N/A
T202566204	DESIGNED BY:	M. PHILBIN
COUNTY	CHECKED BY:	D. SEMPLE
KENT		

HORIZONTAL AND VERTICAL CONTROL		SECTION
		AEC
		SHEET NO.
		7



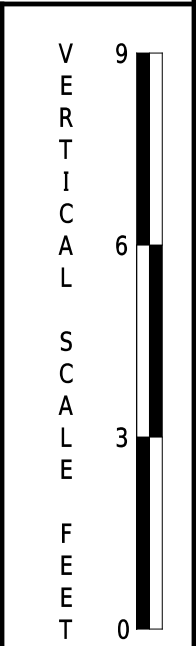
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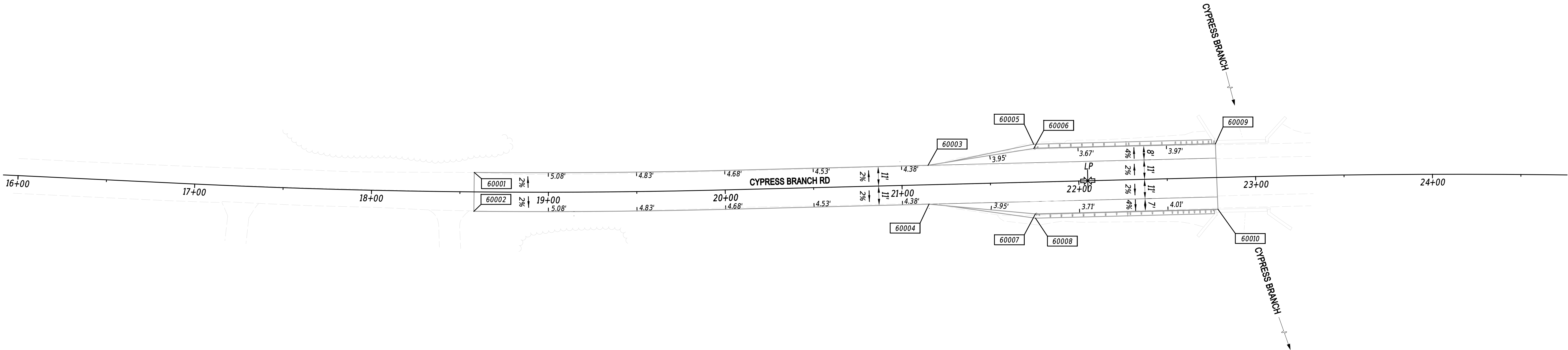
RESILIENCY IMPROVEMENTS, KC,
CYPRESS BRANCH ROAD

CONTRACT	BRIDGE NO.	N/A
T202566204	DESIGNED BY:	M. PHILBIN
COUNTY	CHECKED BY:	D. SEMPLE
KENT		

PROFILES	SECTION
	AEC
	SHEET NO.
	9



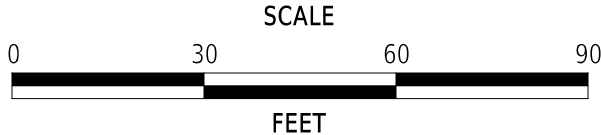
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60001	18+58.00	-11.00	398916.7031	636327.5579
60002	18+58.00	11.00	398916.0977	636349.5496
60003	21+15.00	-11.00	399173.3099	636328.2660
60004	21+15.00	11.00	399173.4565	636350.2655
60005	21+75.00	-21.44	399233.2389	636317.4287
60006	21+75.00	-19.00	399233.2552	636319.8662
60007	21+75.00	18.00	399233.5019	636356.8653
60008	21+75.00	20.44	399233.5181	636359.3015
60009	22+77.72	-19.00	399335.9765	636319.1813
60010	22+78.23	18.00	399336.7290	636356.1771

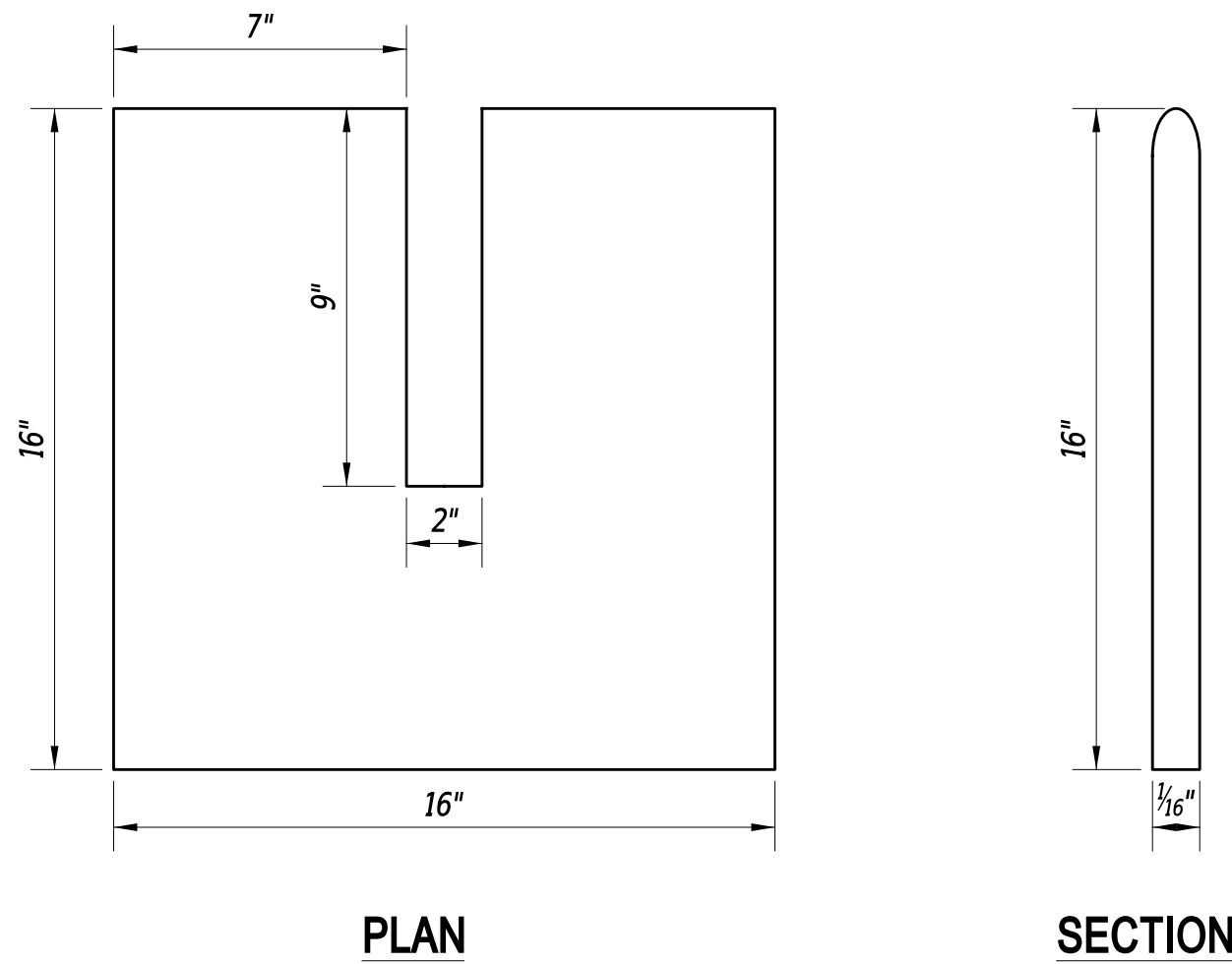


NOTES:

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

ADDENDA / REVISIONS				RESILIENCY IMPROVEMENTS, KC, CYPRESS BRANCH ROAD			CONTRACT T202566204		BRIDGE NO. N/A		DESIGNED BY: M. PHILBIN		CHECKED BY: D. SEMPLE		GRADES AND GEOMETRICS		GG-01
							COUNTY KENT										SECTION
																	AEC
																	SHEET NO.
																	10

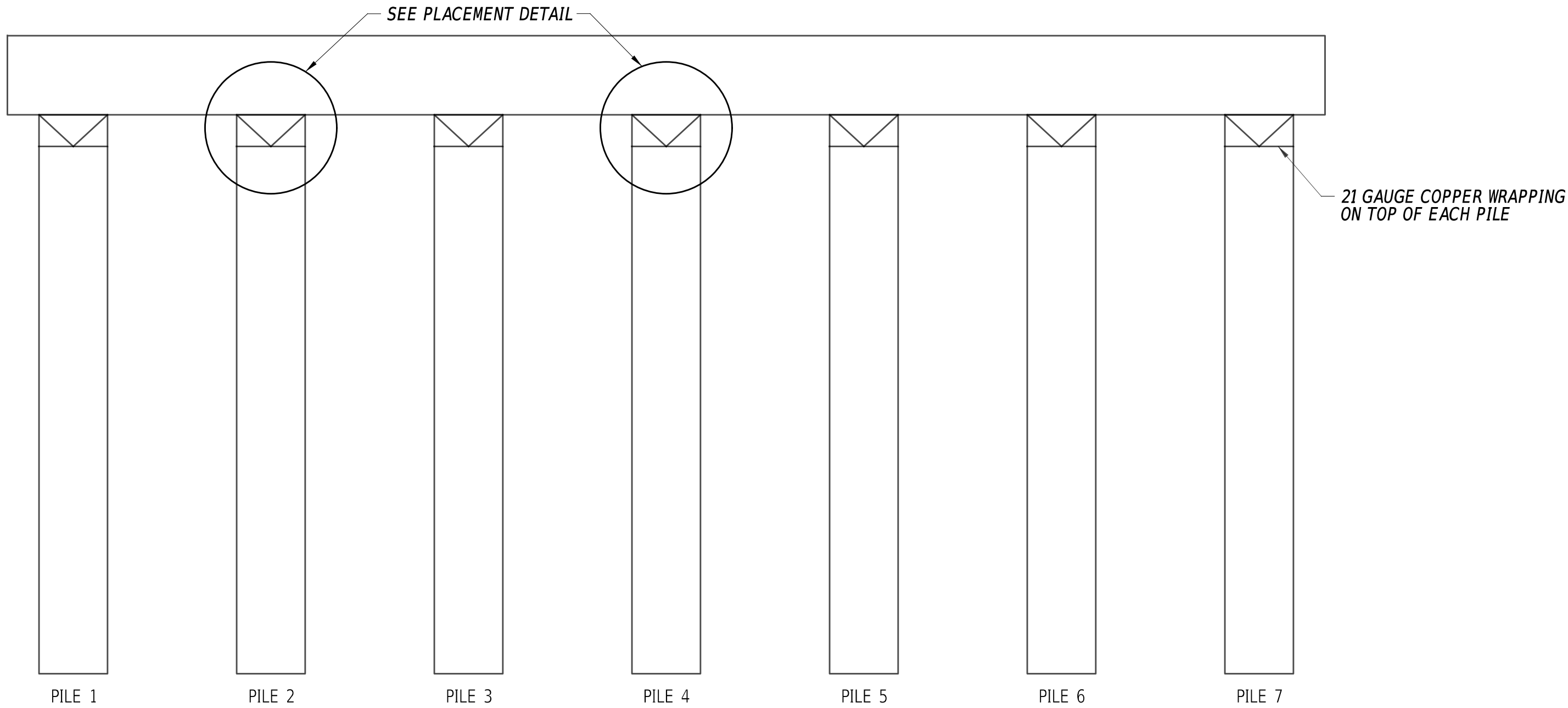




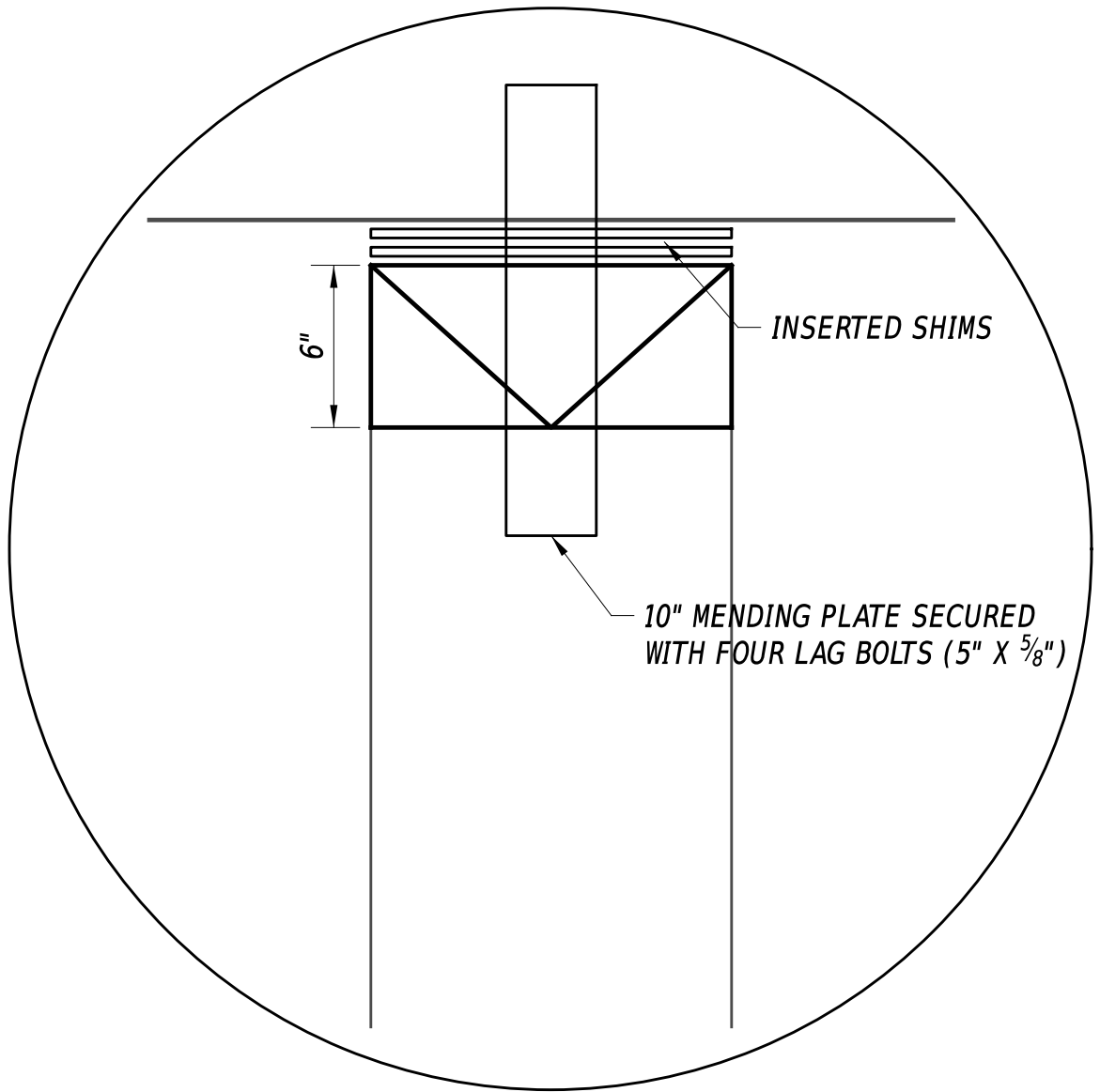
SHIM DETAIL
NOT TO SCALE

NOTES:

- 1) PROCURE 16"x16"x1/16" GALVANIZED STEEL SHIMS CONFORMANT TO DELDOT SPEC 1039.1.
- 2) HAMMER SHIMS ONE BY ONE IN TO PILES 2 AND 4 OF THE SOUTH ABUTMENT UNTIL BEARING BETWEEN THE PILE AND THE ABUTMENT IS RE-ESTABLISHED. ANTICIPATED FOUR SHIMS PER AFFECTED PILE (ITEM 604000 - JACKING BRIDGE).
- 3) USE GALVANIZED MENDING PLATE TO SECURE THE INSERTED SHIMS TO THE PILE. MENDING PLATE TO BE SECURED BY TWO LAG BOLTS OF 5/8" X 5" DRIVEN INTO THE ABUTMENT AND TWO MORE LAG BOLTS DRIVEN BELOW THE COPPER WRAPPING ON THE TOP OF THE PILES.



SOUTH ABUTMENT DETAIL
NOT TO SCALE



SHIM PLACEMENT & ANCHORING DETAIL

ADDENDA / REVISIONS	

NOT TO SCALE

RESILIENCY IMPROVEMENTS, KC, CYPRESS BRANCH ROAD

CONTRACT	BRIDGE NO.	N/A
T202566204	DESIGNED BY: J. POL	
COUNTY	CHECKED BY: J. POL	
KENT		

CONSTRUCTION DETAILS

SECTION
BR
SHEET NO.
11

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 18, MINOR DISCHARGES, PCN REQUIRED

DNREC - WETLANDS & SUBAQUEOUS LANDS (WLSL): WETLANDS & SUBAQUEOUS LANDS PERMIT

DNREC - WATER QUALITY (WQC) & COASTAL ZONE CONSISTENCY (CZM): ISSUED WITH NWP

* 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 - N/A

MIGRATORY BIRDS - N/A

NESTING MARSH BIRDS - NO IN-WETLAND WORK APRIL 1 - JULY 31

1. IF WORK IS PROPOSED DURING THE TIME OF YEAR RESTRICTION IN WETLAND AREAS, PLEASE REACH OUT TO DELDOT ENVIRONMENTAL VIA EMAIL AT DOT_ENVIRONMENTALSTUDIES@DELAWARE.GOV TO CONDUCT A SUITABLE HABITAT SURVEY NO MORE THAN 14 DAYS PRIOR.
3. CULTURAL RESOURCE ISSUES:

A. DUE TO THE NEED FOR A PERMIT FROM THE US ARMY CORPS, THIS PROJECT WILL BE SUBJECT TO SECTION 106 OF THE NATIONAL HISTORIC PRESERVATION ACT AND CONSULTATION WITH THE STATE HISTORIC PRESERVATION OFFICE. IDENTIFICATION OF HISTORIC PROPERTIES AND ASSESSMENT OF POTENTIAL EFFECTS WILL NEED TO BE EVALUATED.
4. 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 908515 - TEMPORARY GRASS SEEDING, WET GROUND.

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.

PERMANENT WETLAND IMPACT AREA SCHEDULE							
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION	LOSS VS. IMPACT	LOSS AREA (AC)
1-W-01	FILL TYPE F	1059.76	0.0243	235.50	USACE	LOSS	0.0243
1-W-02	FILL TYPE F	232.22	0.0053	25.80	USACE/DNREC	LOSS	0.0053
1-W-03	FILL TYPE F	389.46	0.0089	43.27	DNREC	LOSS	0.0089
1-W-04	FILL TYPE F	2.35	0.0000	0.10	DNREC	LOSS	0.0000
1-W-05	FILL TYPE F	15.48	0.0004	0.43	DNREC	LOSS	0.0004
1-W-06	FILL TYPE F	178.84	0.0041	19.87	USACE	LOSS	0.0041
1-W-07	FILL TYPE F	103.03	0.0024	11.45	USACE/DNREC	LOSS	0.0024
1-W-08	FILL TYPE F	63.67	0.0015	7.07	USACE	LOSS	0.0015
TOTAL PERMANENT WETLAND IMPACT AREAS		2044.81	0.0469	343.49	USACE/DNREC	LOSS	0.0469

TEMPORARY WETLAND IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
1-WT-01	WORK AREA / E&S CONTROLS	333.64	0.0077	N/A	USACE
1-WT-02	WORK AREA / E&S CONTROLS	282.40	0.0065	N/A	USACE/DNREC
1-WT-03	WORK AREA / E&S CONTROLS	18.29	0.0004	N/A	DNREC
1-WT-04	WORK AREA / E&S CONTROLS	138.26	0.0032	N/A	DNREC
1-WT-05	WORK AREA / E&S CONTROLS	27.61	0.0006	N/A	USACE
1-WT-06	WORK AREA / E&S CONTROLS	316.89	0.0073	N/A	USACE/DNREC
TOTAL TEMPORARY WETLAND IMPACT AREAS		1117.09	0.0257	N/A	USACE/DNREC

WETLANDS DELINEATED BY DELDOT ON 5/31/2024 IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS "CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987)".

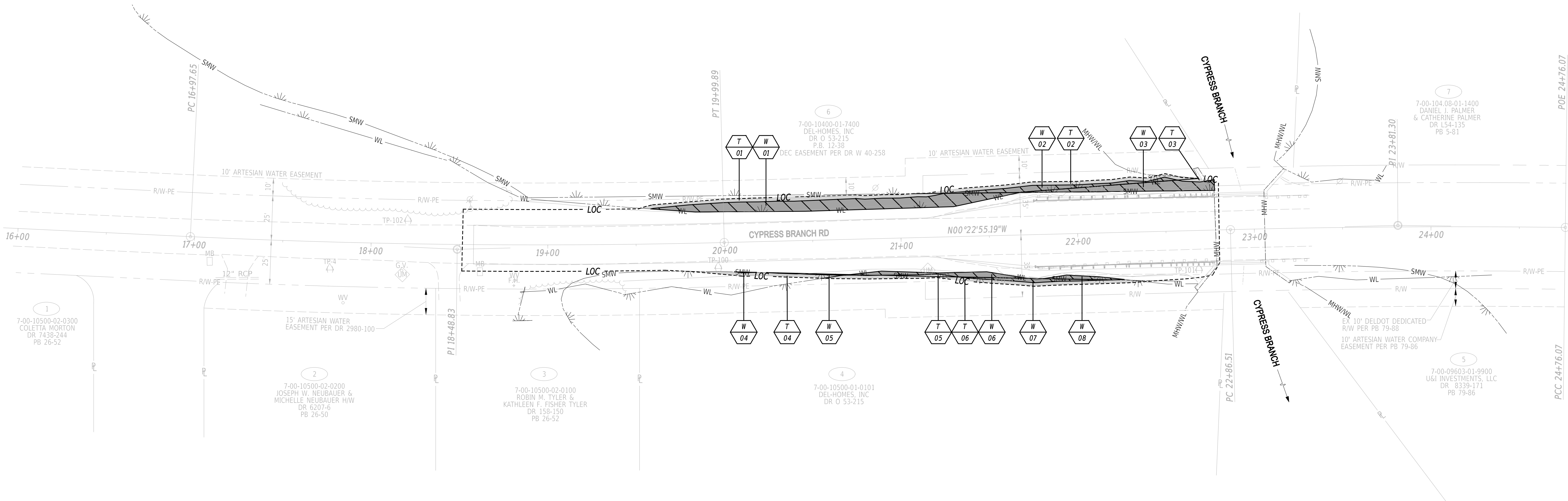
ORIGINAL SHEET PREPARED BY AECOM ON 10-10-2024. SHEET LAST UPDATED ON 1-14-2026.

AECOM

ADDENDA / REVISIONS		NOT TO SCALE	RESILIENCY IMPROVEMENTS, KC, CYPRESS BRANCH ROAD	CONTRACT	BRIDGE NO.	N/A	ENVIRONMENTAL COMPLIANCE PLAN
				T202566204	DESIGNED BY: M. PHILBIN		
				COUNTY	CHECKED BY: D. SEMPLE		
				KENT			

PERMANENT WETLAND IMPACT AREA SCHEDULE							
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1-W-03	FILL TYPE F	389.46	0.0089	43.27	DNREC	LOSS	0.0089
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TOTAL TEMPORARY WETLAND IMPACT AREAS		1117.09	0.0257	N/A	USACE/DNREC



LEGEND

TEMPORARY IMPACT AREA

PERMANENT IMPACT AREA

SMW

STATE MAPPED WETLAND

WL

WETLAND BOUNDARY

LOC

LIMIT OF CONSTRUCTION

XX

XX

IMPACT AREA TYPE ID. (SEE BELOW)

XX

XX

IMPACT AREA ID. AND/OR NUMBER

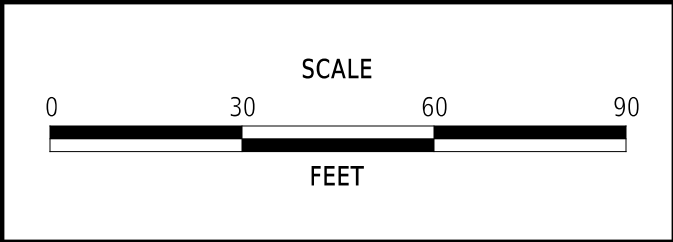
T

TEMPORARY IMPACT

W

WETLAND IMPACT

ADDENDA / REVISIONS	



RESILIENCY IMPROVEMENTS, KC,
CYPRESS BRANCH ROAD

CONTRACT	BRIDGE NO.	N/A
T202566204	DESIGNED BY:	M. PHILBIN
COUNTY	CHECKED BY:	D. SAMPLE
KENT		

ENVIRONMENTAL COMPLIANCE PLAN

EC-01
SECTION
AEC
SHEET NO.
13

GENERAL MOT NOTES

1. 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.

2. CONSTRUCTION SHALL BE DONE UNDER DETOUR AS SHOWN ON THE DETOUR PLAN.

3. THE USE OF MILLINGS AND GRADED AGGREGATE BASE COURSE (GABC) IN THE TRAVEL WAY, TEMPORARY TRAVEL WAY, HIGH VOLUME ENTRANCES AND ACCESS RAMP FOR THE PURPOSE OF PROVIDING A TEMPORARY ROADWAY SURFACE, POTHOLE REPAIR, TAPERED EDGE FOR UTILITIES, BUTT JOINTS, AND LONGITUDINAL DROP-OFFS (MILLING AND PAVING OPERATIONS) IS PROHIBITED UNLESS IT IS OTHERWISE DESIGNATED TO BE USED IN THE CONTRACT PLANS. USE COLD PATCH, BITUMINOUS CONCRETE, BITUMINOUS CONCRETE WEDGE, OR TAPER MILL, AS NOTED IN THE CONTRACT DOCUMENTS OR APPROVED BY THE ENGINEER. PAYMENT FOR COLD PATCH, BITUMINOUS CONCRETE OR BITUMINOUS CONCRETE WEDGE SHALL BE PAID AS NOTED IN THE CONTRACT DOCUMENTS. TAPER MILL BITUMINOUS CONCRETE SHALL BE PAID UNDER THE BITUMINOUS CONCRETE MILLING ITEM.

MILLINGS OR GABC SHALL BE USED AT THE FOLLOWING LOCATIONS WHERE ACCESS TO A BUSINESS, RESIDENCE, OR EDGE DROP OFF NEEDS TO BE MAINTAINED UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER TO USE BITUMINOUS CONCRETE OR COLD PATCH. ALL MILLINGS AND GABC WILL BE ROLLED AND COMPACTED TO HELP PREVENT THE MATERIAL FROM UNRAVELLING:

- a. DRIVEWAYS
- b. ENTRANCES
- c. LOW VOLUME ACCESS RAMPS (IDENTIFIED IN THE CONTRACT DOCUMENTS)
- d. EDGE DROP-OFFS ADJACENT TO LIVE ROADWAY (LANES AND SHOULDER) AND THE PROPOSED ROAD CONSTRUCTION
- e. EDGE OF ROADWAY DROP-OFF

GRADING AND MAINTAINING BASE COURSE THAT IS BEING USED FOR ROADWAY WEDGE/FILLET BETWEEN TRAVEL LANES AND PAVEMENT BOX, EDGE OF TRAVELWAY, DRIVEWAY OR ENTRANCE ACCESS SHALL BE INCIDENTAL TO ITEM NO. 801000 - MAINTENANCE OF TRAFFIC. 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 PAY ITEM. NO SEPARATE PAYMENT SHALL BE MADE FOR MILLINGS OR GABC 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.

VERTICAL DIFFERENCES SHALL BE CORRECTED IN ACCORDANCE WITH STANDARD DETAIL M-16 OF THE 2026 STANDARD DETAILS.

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.

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.

EROSION POTENTIAL FOR THIS PROJECT	CONTRACTOR EROSION AND SEDIMENT CONTROL SUPERVISOR REQUIREMENT
() INSIGNIFICANT	NONE
(X) MINOR	CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
() MAJOR	CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 6.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.

3.

REVIEWED FOR GENERAL CONFORMITY WITH CURRENT DELAWARE SEDIMENT AND STORMWATER REGULATIONS.  05/13/2026 STORMWATER ENGINEER DELAWARE DEPARTMENT OF TRANSPORTATION EXPIRES: 5/13/2031

AMOUNT OF DISTURBED AREA FOR THE PROJECT	0.46 AC
ADDED IMPERVIOUS FOR THE PROJECT	-456 SF
HUC-10 WATERSHED	ST. JONES RIVER WATERSHED

4. ASSIGN A RESPONSIBLE PERSON TO BE ON SITE DURING ALL EARTH DISTURBING ACTIVITIES AND BE AN ACTIVE DNREC 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.

5. FILE AS A CO-PERMITTEE IN ACCORDANCE WITH SECTION 901 OF THE STANDARD SPECIFICATIONS. POSTING AND MAINTENANCE OF THE NOT PERMIT COVERAGE IS INCIDENTAL TO THE CONTRACT.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

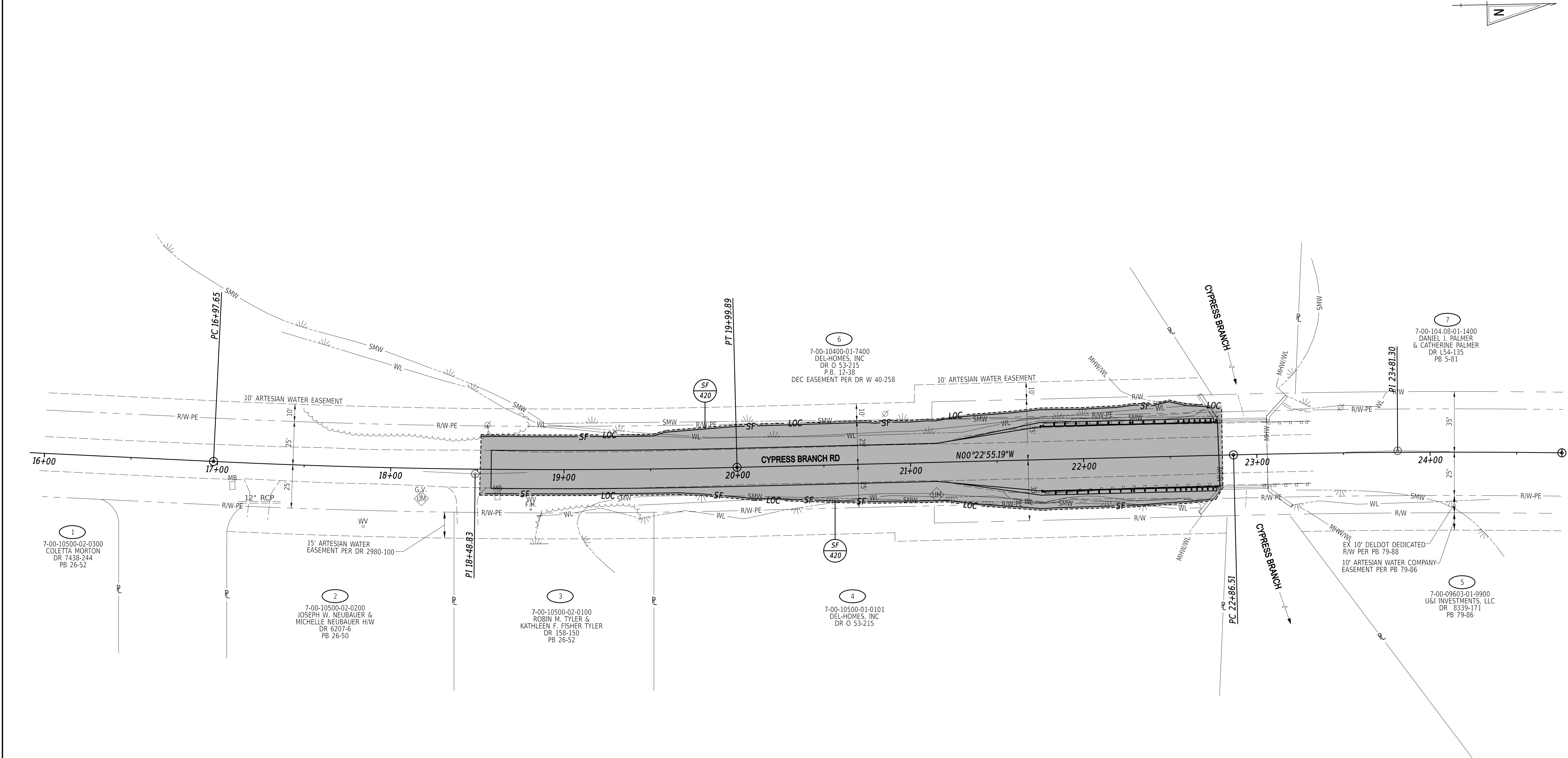
11. PER SIDEWALK, TRAIL, OR OTHER LINEAR IMPERVIOUS SURFACES STANDARD PLAN APPROVAL, NO MORE THAN 1.0 ACRE MAY BE DISTURBED AT ANY TIME. FURTHER DISTURBANCE MAY NOT PROCEED UNTIL TEMPORARY OR PERMANENT STABILIZATION OF THE PREVIOUSLY DISTURBED AREA IS COMPLETED TO THE SATISFACTION OF AND AS APPROVED BY THE ENGINEER.

12. 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.

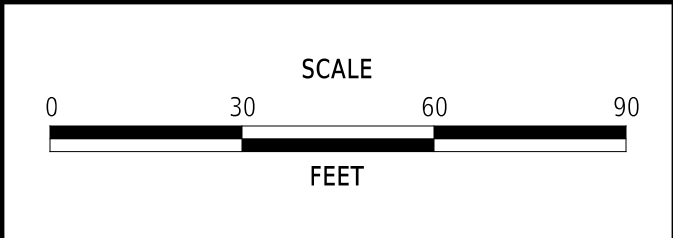
13. USE SANDBAGS OR COMPOST FILTER LOG (CFL) TO SECURE SILT FENCE AT AREAS ADJACENT TO WOODED UPLANDS/ALL WETLANDS IN LIEU OF TRENCHING UNLESS PROPER EROSION AND SEDIMENT CONTROL CANNOT BE MAINTAINED. SANDBAGS AND CFL'S (AND CONTENTS) MUST BE REMOVED IN THE ENTIRETY WHEN NO LONGER NEEDED. SANDBAGS/CFL USED TO SECURE THE SILT FENCE IS INCIDENTAL TO ITEM 905001 - SILT FENCE. THE ENVIRONMENTAL STUDIES SECTION CAN PROVIDE FURTHER GUIDANCE REGARDING THIS METHOD OF INSTALLATION.

14. DEWATERING BAGS SHALL ONLY BE USED TO REMOVE WATER FROM THE ROADWAY.

ADDENDA / REVISIONS		NOT TO SCALE	RESILIENCY IMPROVEMENTS, KC, CYPRESS BRANCH ROAD	CONTRACT	BRIDGE NO.	N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN
				T202566204	DESIGNED BY: M. PHILBIN		
				COUNTY	CHECKED BY: D. SEMPLE		
				KENT			



ADDENDA / REVISIONS	



RESILIENCY IMPROVEMENTS, KC, CYPRESS BRANCH ROAD

CONTRACT	BRIDGE NO.	N/A
T202566204	DESIGNED BY:	M. PHILBIN
COUNTY	CHECKED BY:	D. SEMPLE
KENT		

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

SECTION
AEC
SHEET NO.
15

PORTABLE CHANGEABLE MESSAGE SIGNS

PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-1

CYPRESS
BRANCH
ROAD

TO CLOSE
STARTING
XX/XX/XX

SPECIAL SIGNS

Y

6" C
6" C
6" C
6" C
6" C
6" C
6" C
6" C

Cypress
Branch Rd
CLOSED
SOUTH OF
Sorghum
Mill Rd

69"

54"

Z

6" C
6" C
6" C
6" C
6" C
6" C
6" C
6" C

Cypress
Branch Rd
CLOSED
NORTH OF
Ponderosa
Drive

69"

54"

SIGN SHALL HAVE A BLACK LEGEND AND BORDER
ON A PRISMATIC FLUORESCENT ORANGE RETROREFLECTIVE
BACKGROUND.

PREPARED BY
AECOM TECHNICAL SERVICES, INC

Joseph A. Hofssee

10/14/2025

THIS SEAL ONLY APPLIES TO THIS DETOUR SHEET

DATE

SEAL

QA/QC

10/9/2025

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.*

LEGEND

A

DETOUR

M4-9-DE

B

DETOUR

M4-9

C

DETOUR

M4-9

D

DETOUR

M4-9

E

DETOUR

M4-9

F

DETOUR

M4-9

G

DETOUR

M4-9

H

DETOUR

M4-9

I

DETOUR

M4-9

J

END
DETOUR

M4-8a

K

DETOUR
AHEAD

W20-2

L

DETOUR
1000 FT

W20-2

M

DETOUR
500 FT

W20-2

N

ROAD
CLOSED
AHEAD

W20-3

O

ROAD
CLOSED
1000 FT

W20-3

P

ROAD
CLOSED
500 FT

W20-3

Q

ROAD
CLOSED

R11-2

R

DETOUR

M4-10(L)

S

DETOUR

M4-10(R)

T

ROAD CLOSED
1 1/2 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3a

U

BRIDGE OUT
XX MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3b

V

ROAD CLOSED
TO
THRU TRAFFIC

R11-4

W

X

GENERAL NOTES

1. 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.

2. SIGNS "N" THROUGH "O" AND "T" AND "V", THE WORD "ROAD" SHALL BE CHANGED TO "RAMP", "RR XING" OR "BRIDGE" WHERE APPLICABLE.

3. "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.

4. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

DETOUR DESCRIPTION
(TO BE USED ON ROAD CLOSURE NOTIFICATION AND TRAFFIC ALERT BY ENGINEER)

MOTORISTS WANTING TO TRAVEL SOUTH ON CYPRESS BRANCH ROAD WILL GO STRAIGHT ON SORGHUM MILL ROAD, TURN LEFT ON SOUTH STATE STREET, THEN TURN LEFT ON PONDEROSA DRIVE, RETURNING TO CYPRESS BRANCH ROAD.

MOTORISTS WANTING TO TRAVEL NORTH ON CYPRESS BRANCH ROAD WILL GO STRAIGHT ON PONDEROSA DRIVE, TURN RIGHT ON SOUTH STATE STREET, THEN TURN RIGHT ON SORGHUM MILL ROAD, RETURNING TO CYPRESS BRANCH ROAD.

CONCURRENCE FOR IMPLEMENTATION

TRAFFIC SAFETY

Justin Green

10/16/2025

DATE

CONTRACT
T202566204

PERMIT NO.
X

COUNTY
KENT

DESIGNED BY:
M. PHILBIN

CHECKED BY:
D. SEMPLE

DETOUR PLAN -
VEHICULAR
CYPRESS BRANCH RD

SECTION
AEC

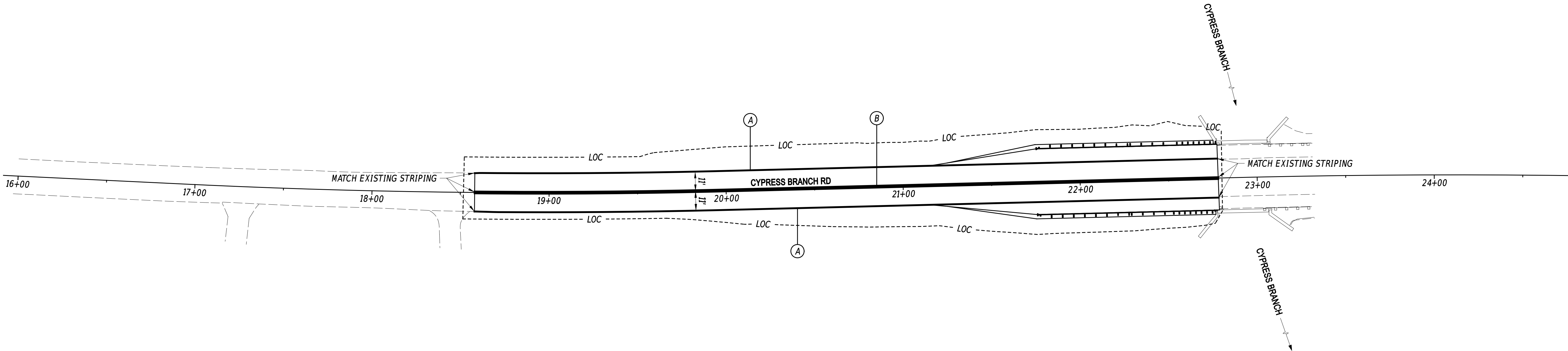
SHEET NO.
16

ADDENDA / REVISIONS

NOT TO SCALE

RESILIENCY IMPROVEMENTS, KC,
CYPRESS BRANCH ROAD

PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 861001)	840 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE LINE (ITEM 861001)	840 LF



					SS-01					
ADDENDA / REVISIONS				0306090 SCALE 0 30 60 90 FEET	RESILIENCY IMPROVEMENTS, KC, CYPRESS BRANCH ROAD	CONTRACT	BRIDGE NO.	N/A	SIGNING, STRIPING AND CONDUIT PLAN	SECTION
						T202566204	DESIGNED BY:	M. PHILBIN		AEC
						COUNTY	CHECKED BY:	D. SEMPLE		SHEET NO.
						KENT				17