THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY UNITS

CONSTRUCTION PLANS FOR:

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT NUMBER: T201620019

FEDERAL AID PROJECT NUMBER: ETEA-2016(41)

COUNTY: SUSSEX **M.R. #: 50**

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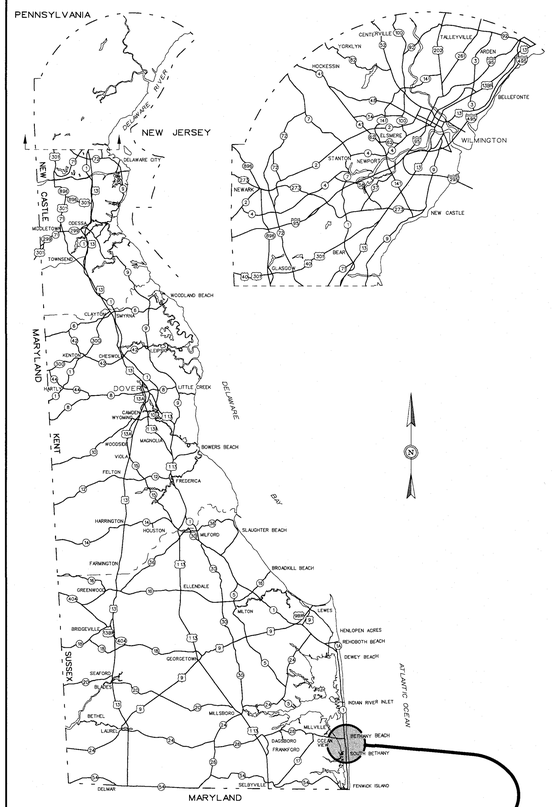
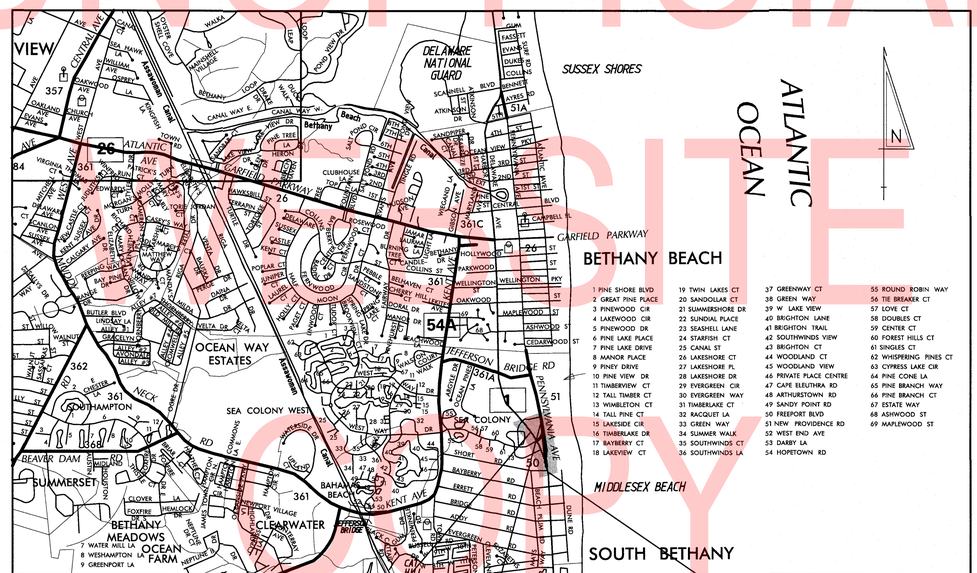


GENERAL LOCATION OF CONTRACT



BEGIN CONTRACT STATION 102+30.00

LIMIT OF CONTRACT STATION 3+72.00

END CONTRACT STATION 111+31.37

DESIGN DESIGNATION

MRD #: 50	ROAD NAME: SR 1	
FUNCTIONAL CLASS: PRINCIPAL ARTERIAL	D.H.V. PROJECTED: 2,135	YEAR: 2016
TYPE OF CONSTRUCTION: RECONSTRUCTION	DESIGN SPEED: 50 M.P.H. POSTED SPEED: 35 M.P.H.	
A.A.D.T. CURRENT: 25,600 YEAR: 2016	TRUCKS: 6 % WEEKDAY, 1 % WEEKEND	
A.A.D.T. PROJECTED: 25,600 YEAR: 2016	DIRECTION OF DISTRIBUTION: 52/48 %	

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME

APPROVED FOR ADVERTISEMENT

Dan A Bz 4/5/19

DIRECTOR OF PLANNING DATE

PREPARED BY
RUMMEL, KLEPPER & KAHL, LLP

Carey D. Webb 3/20/19

THIS SEAL APPLIES TO ALL SHEETS BEARING THE "RK&K" SECTION DESIGNATION. DATE

CAREY DANIEL WEBB LICENSED No. 18515 DELAWARE PROFESSIONAL ENGINEER

SEAL

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INDEX OF SHEETS	
SHEET DESCRIPTION	**SHEET NO(S)**
TITLE	1
PLAN SHEET INDEX	2
LEGEND	3
NOTES	4
TYPICAL SECTIONS	5 - 6
HORIZONTAL AND VERTICAL CONTROL	7
CONSTRUCTION AND RIGHT OF WAY PLANS	8 - 9
PROFILES	10
GRADES AND GEOMETRICS	11 - 12
STORMWATER MANAGEMENT PLANS	13 - 14
CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLANS	15 - 21
DETOUR PLAN	22
UTILITY RELOCATION PLAN	23
SIGNING, STRIPING AND CONDUIT PLANS	24 - 27
SIGNALIZATION PLAN	28

PLAN SHEET INDEX CROSS REFERENCE		
CONSTRUCTION PLANS	8	9
GRADES AND GEOMETRICS	11	--
STORMWATER MANAGEMENT	13	--
CONSTRUCTION PHASING SHEETS	16, 18, 20	17, 19, 21
UTILITY RELOCATION PLAN	23	--
SIGNING & STRIPING PLANS	24	25

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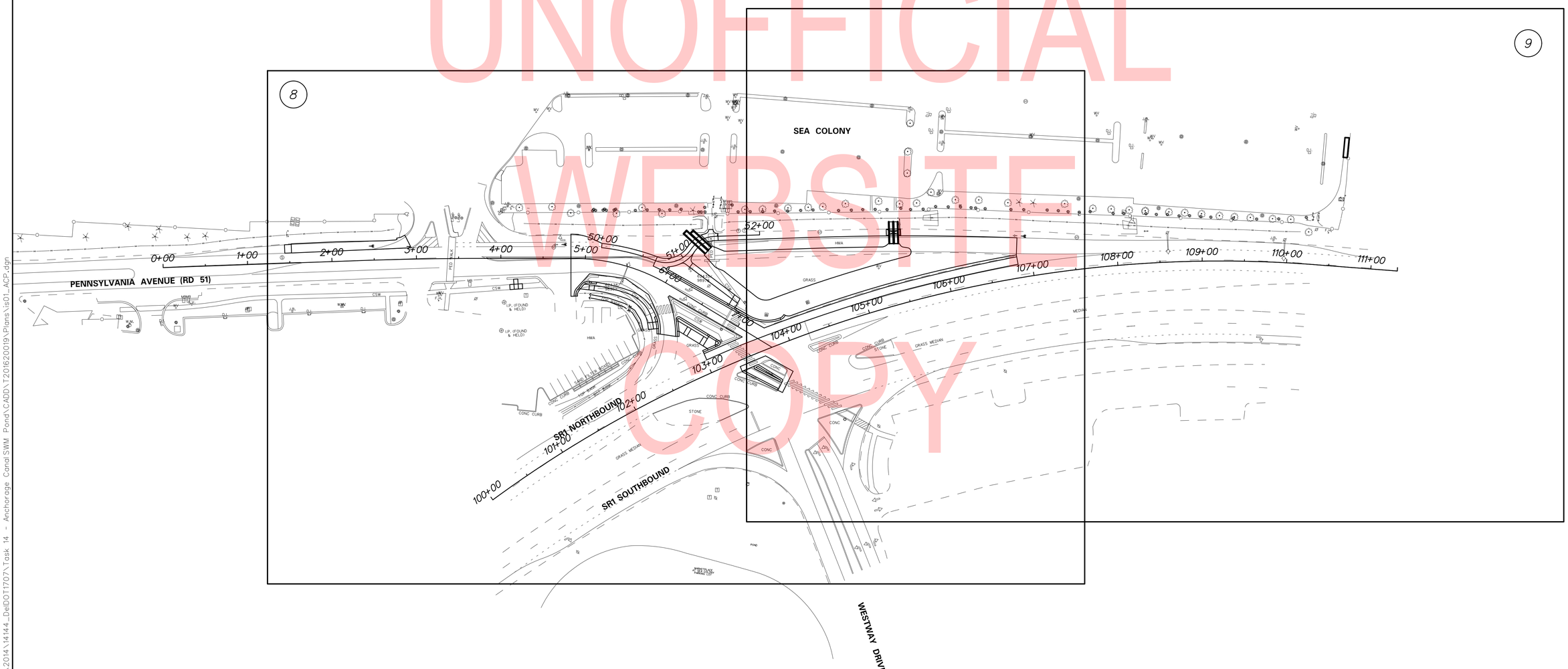

ADDENDUMS / REVISIONS	

SCALE
0 60 120 180
FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: BEB	
COUNTY		
SUSSEX	CHECKED BY: BAH	

PLAN SHEET INDEX

SECTION
RK&K
SHEET NO.
2

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EXISTING SYMBOLS

DRAINAGE

	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
C.B. / D.I.	DRAINAGE INLET
J.B.	DRAINAGE JUNCTION BOX
D	DRAINAGE MANHOLE
SIZE/TYPE LABEL	DRAINAGE PIPE AND FLOW ARROW
	DRAINAGE PIPE HEADWALL
	RIPRAP - AREA FEATURE
	RIPRAP - LINEAR FEATURE

MANMADE ROADSIDE FEATURES

	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
(TYPE LABEL)	CURB
(TYPE LABEL)	CURB AND GUTTER
	FENCE - CHAINLINK OR STRANDED
	FENCE - STOCKADE OR SPLIT RAIL
FP	FLAG POLE
	GUARDRAIL - STEEL BEAM
	GUARDRAIL - WIRE ROPE
LAMP	LAMP AND POST - RESIDENTIAL
MB	MAILBOX
PM	PARKING METER AND POST
	PAVEMENT - FLEXIBLE
	PAVEMENT - RIGID
	PILE - BRIDGE
	PILLAR OR MISCELLANEOUS POST
	TRAFFIC SIGN AND POST
	WALL - BRICK OR BLOCK
	WALL - STONE

NATURAL ROADSIDE FEATURES

	GRASS LAWN
	HEDGEROW OR THICKET
	MARSH BOUNDARY LINE
	TREE - CONIFEROUS
	TREE - DECIDUOUS
	TREE STUMP
	SHRUBBERY
WL	DELINEATED WETLAND BOUNDARY LINE
	WOODS LINE BOUNDARY

RIGHT-OF-WAY SYMBOLS

C.M.	PROPERTY MARKER - CONCRETE MON.
I.P.	PROPERTY MARKER - IRON PIPE
100+00	HISTORIC RIGHT-OF-WAY BASELINE
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
EASEMENT TYPE	EXISTING EASEMENT
DA	EXISTING DENIAL OF ACCESS
R/W-DA	EXISTING R/W & DENIAL OF ACCESS

SURVEY CONTROL & MONUMENTATION

B.M.	SURVEY BENCHMARK LOCATION
T.P.	SURVEY TIE POINT LOCATION
	SURVEY TRAVERSE POINT
	POINT OF CURVATURE OR TANGENCY
	POINT OF INTERSECTING TANGENTS

UTILITY

	SOIL BORING LOCATION
	UTILITY TEST HOLE LOCATION
TV	CABLE TV DISTRIBUTION BOX
E	ELECTRIC MANHOLE
EM	ELECTRIC METER
E	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
G	GAS MANHOLE
G.M.	GAS METER
G.V.	GAS VALVE
G.P.	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
S	SANITARY SEWER MANHOLE
S.V.	SANITARY SEWER VALVE
SCO	SANITARY SEWER CLEANOUT OR VENT
S.D.F.	SEPTIC DRAIN FIELD
B	TELEPHONE BOOTH
T	TELEPHONE MANHOLE
T	TELEPHONE TEST POINT
J.W.	TRAFFIC - CONDUIT JUNCTION WELL
	TRAFFIC - LIGHT POLE AND BASE
	TRAFFIC - PEDESTRIAN POLE & BASE
	TRAFFIC - SIGNAL CABINET & BASE
	TRAFFIC - SIGNAL POLE AND BASE
U	UTILITY BOX
	UTILITY POLE GUY WIRE ANCHOR
	UTILITY POLE
F.H.	WATER - FIRE HYDRANT
W.M.	WATER METER
W.V.	WATER VALVE
WELL	WELL HEAD
?	MANHOLE - UNDETERMINED OWNER

UTILITY COMPANY FACILITIES

AW-W	ARTESIAN WATER
DP-E	DELMARVA POWER - ELECTRIC
EX-SIG	DELDOT SIGNAL CONDUIT
SC-S	SUSSEX COUNTY SEWER
VER-C	VERIZON

PROPOSED SYMBOLS

CONSTRUCTION

	CONCRETE SAFETY BARRIER - PERMANENT
BFS	BIOFILTRATION SWALE
	BRICK PATTERNED SURFACE
	BUTT JOINT
CZ	CLEAR ZONE
100+00	CONSTRUCTION BASELINE
CSF	CONSTRUCTION SAFETY FENCE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB & GUTTER, TYPE 4
	CURB OPENING - SUMP / ON GRADE
	CURB OPENING WITH SIDEWALK
	DRAINAGE INLET
	DITCH
	FENCE - METAL
	FENCE - WOOD
	FLARED END SECTION
	GUARDRAIL, TYPE 1
	GUARDRAIL, TYPE 2
	GUARDRAIL, TYPE 3
	GUARDRAIL END ANCHORAGE
	GUARDRAIL END TREATMENT, TYPE 1
	GUARDRAIL END TREATMENT, TYPE 2
	GUARDRAIL END TREATMENT, TYPE 3
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
LO	LATERAL OFFSET
LOC	LIMIT OF CONSTRUCTION
MB	MAILBOX
	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK - 4"
	P.C.C. SIDEWALK - 6" (USE 8" DEPTH FOR CHANNELIZATION ISLANDS.)
	UNDERDRAIN
	UNDERDRAIN OUTLET

RIGHT-OF-WAY SYMBOLS

	PROPOSED RIGHT-OF-WAY MONUMENT
DA	PROPOSED DENIAL OF ACCESS
PE	PROPOSED PERMANENT EASEMENT
R/W	PROPOSED RIGHT-OF-WAY
R/W-DA	PROPOSED R/W & DENIAL OF ACCESS
TCE	TEMPORARY CONSTRUCTION EASEMENT
100+00	PROPOSED RIGHT-OF-WAY BASELINE

IDENTIFIERS

A/C	ADJUST BY CONTRACTOR
A/O	ADJUST BY OTHERS
B	CONCRETE SAFETY BARRIER
C	CURB OR CURB & GUTTER
CJB	CONVERT TO JUNCTION BOX
CMH	CONVERT TO DRAINAGE MANHOLE
C/O	CURB OPENING - SUMP / ON GRADE
CO/SW	CURB OPENING WITH SIDEWALK
CR	CURB RAMP / TYPE
CR-N	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
CSF	CONSTRUCTION SAFETY FENCE
DI	DRAINAGE INLET
DND	DO NOT DISTURB
ED	ENERGY DISSIPATOR
F	FENCE
FES	FLARED END SECTION
FF/C	FILL WITH FLOWABLE FILL
FS	FILTRATION STRUCTURE
GR	GUARDRAIL
JB	JUNCTION BOX
MH	MANHOLE
M	MONUMENT - RIGHT-OF-WAY
P	PIPE
RL/C	RELOCATE BY CONTRACTOR
RL/O	RELOCATE BY OTHERS
RL/PO	RELOCATE BY PROPERTY OWNER
RM/C	REMOVE BY CONTRACTOR
RM/TC	REMOVE BY TRAFFIC CONTRACTOR
RM/O	REMOVE BY OTHERS
UD	UNDERDRAIN / LENGTH
UDO	UNDERDRAIN OUTLET PIPE

LANDSCAPING

LS	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

TRAFFIC

ITMS-CON	ITMS CONDUIT
SIG-CON	SIGNAL CONDUIT
	CONDUIT JUNCTION WELL
	LUMINAIRE
	PAVEMENT MARKINGS
	PAVEMENT STRIPING
	TRAFFIC SIGN

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 TYPICAL SECTIONS FOR MATERIALS AND DEPTHS

UTILITY COMPANY FACILITIES

AW-W	PROPOSED ARTESIAN WATER
DP-E-OH	PROPOSED DELMARVA POWER - ELECTRIC
VER-C	PROPOSED VERIZON

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ADDENDUMS / REVISIONS

NOT TO SCALE

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: SJS	
COUNTY		
SUSSEX	CHECKED BY: BAH	

LEGEND

SECTION: RK&K

SHEET NO. 3

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GENERAL NOTES

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2016 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2017, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

2. ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR, INCLUDE:

( )	NONE
(X)	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	ALL PLAN SHEETS, IN PDF FORMAT.
( )	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
( )	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
( )	DESIGN FILE, IN .DGN FILE FORMAT, CONTAINING ONLY THE PROPOSED 3D TRIANGLES OF THE PROPOSED DIGITAL TERRAIN MODEL (DTM).

NOTE: THE DOCUMENT ENTITLED "RELEASE FOR DELIVERY OF DOCUMENTS IN ELECTRONIC FORM TO A CONTRACTOR" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

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

(X)	CROSS SECTIONS
(X)	RIGHT-OF-WAY PLANS (WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR)

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 AIRCRAFT 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

3. 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 IN COMPLIANCE WITH THE AASHTO ROADSIDE DESIGN GUIDE AND THE AMERICANS WITH DISABILITIES ACT. 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 BE SET BACK 8 INCHES FROM THE EDGE OF THE PAVED SHOULDER. THE BOTTOM OF THE MAILBOX SHALL BE SET 42-48 INCHES ABOVE THE ROADWAY SURFACE. 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 PLACED 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 MAIL BOX 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.

4. ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   a. PEDESTRIAN SIGNAL POLE BASES

SECTION 700

5. IN AREAS WHERE PROPOSED CURB MEETS EXISTING CURB AND THE TWO CURB TYPES ARE NOT SIMILAR, THE PROPOSED CURB SHALL BE TRANSITIONED IN 10 LINEAR FEET, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK, INCLUDING SAW CUTTING EXISTING CURB SHALL BE INCIDENTAL TO THE PROPOSED CURB ITEM.

6. WHERE PROPOSED CONCRETE SIDEWALK IS CONSTRUCTED TO MEET EXISTING SIDEWALK, THE EXISTING SIDEWALK SHALL BE SAWCUT AT THE TIE-IN POINT OR MEET THE NEAREST EXISTING SIDEWALK JOINT. ALL SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER AND SHALL BE PAID FOR UNDER ITEM 762001 - SAW CUTTING, CONCRETE, FULL DEPTH.

7. 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

8. 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

9. THE CONTRACTOR SHALL CONTACT TREMICA CHERRY-WALL, PLANNER FOR DART FIRST STATE AT 302-576-6065 OR JARED KAUFFMAN, PLANNER FOR DART FIRST STATE AT 302-576-6062, 14 DAYS PRIOR TO THE START OF CONSTRUCTION. BILL WILLIAMSON, PASSENGER FACILITIES COORDINATOR FOR DART FIRST STATE AT 302-576-6132 SHOULD BE CONTACTED IF TREMICA OR JARED CANNOT BE REACHED.

10. REFER TO THE CONSTRUCTION PLAN SHEETS FOR THE LOCATION OF THE CLEAR ZONE AREA LIMITS.

EARTHWORK SUMMARY

EXCAVATION	
EXCAVATION FROM CROSS SECTIONS	1,276 C.Y.
EXCAVATION FOR ROOTMAT REMOVAL	0 C.Y.
EXCAVATION FOR PAVEMENT REMOVAL	817 C.Y.
EXCAVATION FOR STRUCTURES	163 C.Y.
MISC. EXCAVATION (SWM POND, POLE BASES, ETC.)	2,060 C.Y.
TOPSOIL STRIPPING	0 C.Y.
TOTAL EXCAVATION	4,316 C.Y.
EXCAVATION AVAILABLE FOR EMBANKMENT	
EXCAVATION MEETING BORROW TYPE 'A'	0 C.Y.
EXCAVATION MEETING BORROW TYPE 'F'	875 C.Y.
EXCAVATION MEETING TOPSOIL	0 C.Y.
EMBANKMENT REQUIREMENTS	
BORROW TYPE 'A' REQUIRED (INCLUDING UNDERCUT)	25 C.Y.
BORROW TYPE 'F' REQUIRED	60 C.Y.
TOPSOIL REQUIRED	1539 C.Y.
MATERIAL BALANCE ("+"= EXCESS, "-"= NEED)	
BORROW TYPE 'A'	-25 C.Y.
BORROW TYPE 'F'	+815 C.Y.
TOPSOIL	-1539 C.Y.
UNSUITABLE MATERIAL	3,441 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, ENVIRONMENTAL SITE EXCAVATION, ETC.

3) UNSUITABLE MATERIALS INCLUDE UNDERCUT SOILS, BITUMINOUS PAVEMENT, ETC.

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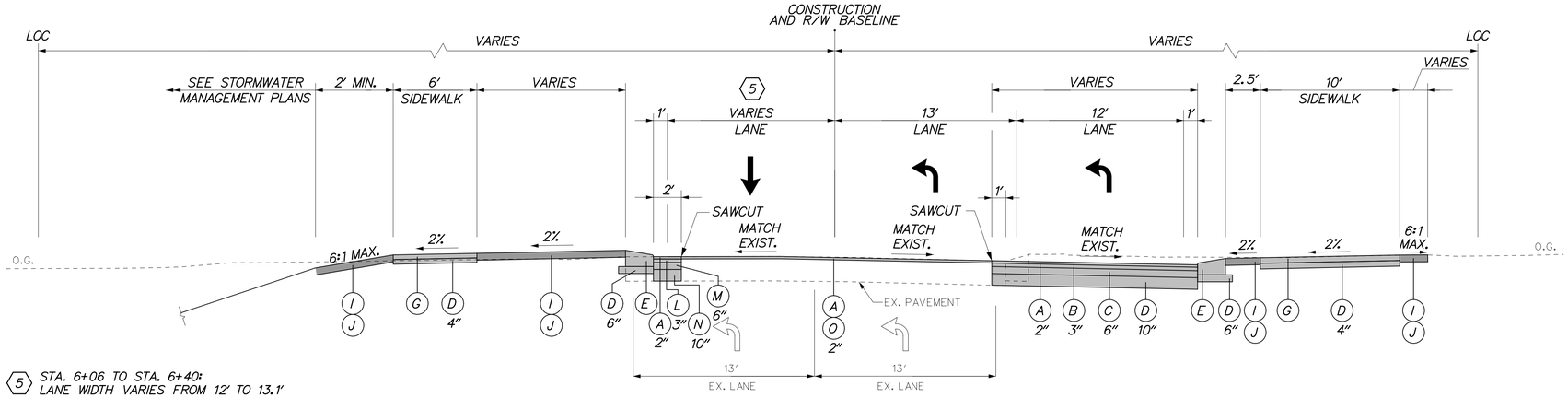
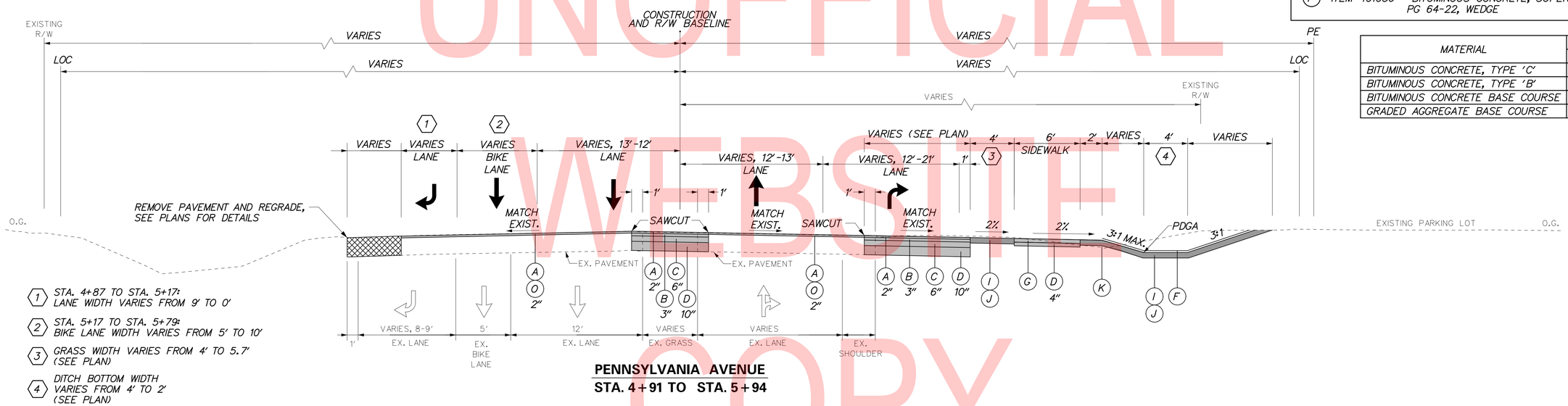
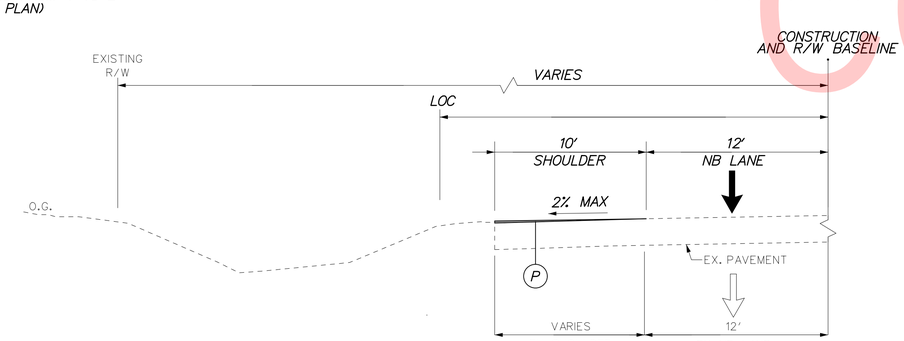


PENNSYLVANIA AVENUE
STA. 5+94 TO STA. 6+40



PENNSYLVANIA AVENUE
STA. 4+91 TO STA. 5+94



PENNSYLVANIA AVENUE
STA. 1+53 TO STA. 2+94

LEGEND

- (A) ITEM 401044 - BITUMINOUS CONCRETE, SUPERPAVE TYPE C, 160 GYRATIONS, PG 64-22, (NON-CARBONATE STONE)
- (B) ITEM 401014 - BITUMINOUS CONCRETE, SUPERPAVE TYPE B, 160 GYRATIONS, PG 64-22
- (C) ITEM 401021 - BITUMINOUS CONCRETE, SUPERPAVE BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (D) ITEM 301001 - GRADED AGGREGATE BASE COURSE, TYPE B
- (E) ITEM 701014 - P.C.C. CURB, TYPE 2
- (F) ITEM 908020 - EROSION CONTROL BLANKET MULCH
- (G) ITEM 705001 - P.C.C. SIDEWALK, 4"
- (H) ITEM 705002 - P.C.C. SIDEWALK, 6"
- (I) ITEM 908004 - TOPSOIL, 6" DEPTH
- (J) ITEM 908016 - PERMANENT GRASS SEEDING, SUBDIVISION
- (K) ITEM 209006 - BORROW, TYPE F
- (L) ITEM 401027 - BITUMINOUS CONCRETE, SUPERPAVE TYPE B, 160 GYRATIONS, PG 64-22, PATCHING
- (M) ITEM 401028 - BITUMINOUS CONCRETE, SUPERPAVE BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING
- (N) ITEM 301002 - GRADED AGGREGATE BASE COURSE, TYPE B PATCHING
- (O) ITEM 760010 - PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT
- (P) ITEM 401036 - BITUMINOUS CONCRETE, SUPERPAVE TYPE C, PG 64-22, WEDGE

MATERIAL	LIFT THICKNESS	
	MINIMUM	MAXIMUM
BITUMINOUS CONCRETE, TYPE 'C'	1.25"	2"
BITUMINOUS CONCRETE, TYPE 'B'	2.25"	4"
BITUMINOUS CONCRETE BASE COURSE	3"	6"
GRADED AGGREGATE BASE COURSE	3"	8"

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ADDENDUMS / REVISIONS

NOT TO SCALE

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: BEB	
COUNTY		
SUSSEX	CHECKED BY: BAH	

TYPICAL SECTIONS

SECTION: RK&K
SHEET NO. 5

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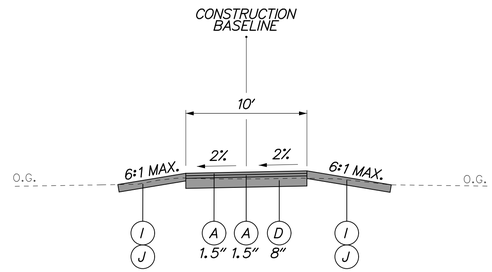
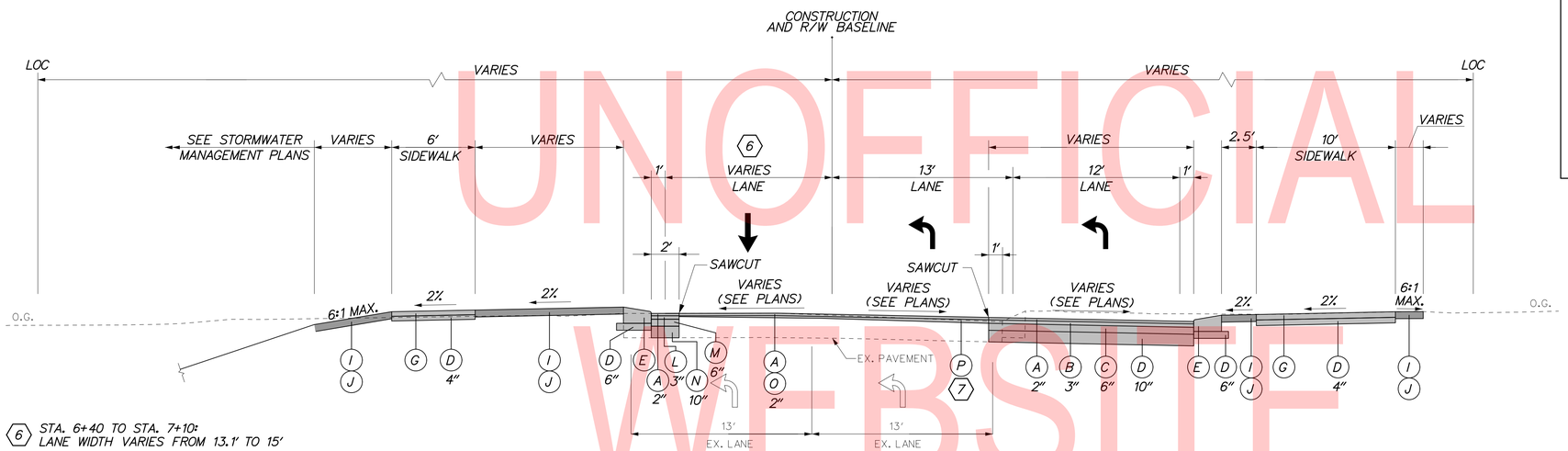


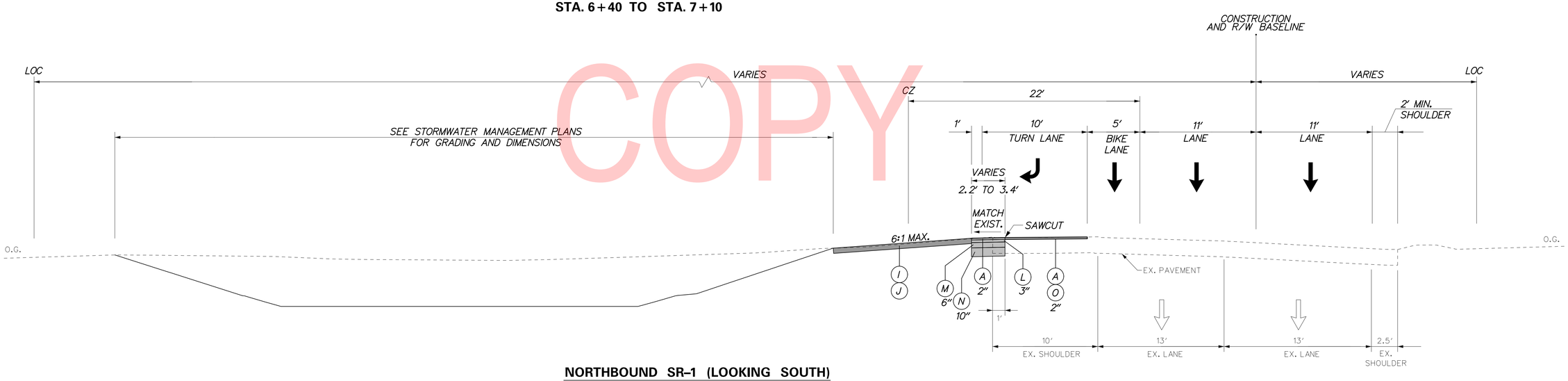
10' SHARED USE PATH (LOOKING SOUTH)
STA. 50+82 TO STA. 51+51



6 STA. 6+40 TO STA. 7+10: LANE WIDTH VARIES FROM 13.1' TO 15'

7 STA. 6+40 TO STA. 7+10: LIMITS OF VARIABLE DEPTH WEDGE

PENNSYLVANIA AVENUE
STA. 6+40 TO STA. 7+10



NORTHBOUND SR-1 (LOOKING SOUTH)
STA. 103+79 TO STA. 106+83

LEGEND

- (A) ITEM 401044 - BITUMINOUS CONCRETE, SUPERPAVE TYPE C, 160 GYRATIONS, PG 64-22, (NON-CARBONATE STONE)
- (B) ITEM 401014 - BITUMINOUS CONCRETE, SUPERPAVE TYPE B, 160 GYRATIONS, PG 64-22
- (C) ITEM 401021 - BITUMINOUS CONCRETE, SUPERPAVE BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (D) ITEM 301001 - GRADED AGGREGATE BASE COURSE, TYPE B
- (E) ITEM 701014 - P.C.C. CURB, TYPE 2
- (F) ITEM 908020 - EROSION CONTROL BLANKET MULCH
- (G) ITEM 705001 - P.C.C. SIDEWALK, 4"
- (H) ITEM 705002 - P.C.C. SIDEWALK, 6"
- (I) ITEM 908004 - TOPSOIL, 6" DEPTH
- (J) ITEM 908016 - PERMANENT GRASS SEEDING, SUBDIVISION
- (K) ITEM 209006 - BORROW, TYPE F
- (L) ITEM 401027 - BITUMINOUS CONCRETE, SUPERPAVE TYPE B, 160 GYRATIONS, PG 64-22, PATCHING
- (M) ITEM 401028 - BITUMINOUS CONCRETE, SUPERPAVE BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING
- (N) ITEM 301002 - GRADED AGGREGATE BASE COURSE, TYPE B PATCHING
- (O) ITEM 760010 - PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT
- (P) ITEM 401036 - BITUMINOUS CONCRETE, SUPERPAVE TYPE C, PG 64-22, WEDGE

MATERIAL	LIFT THICKNESS	
	MINIMUM	MAXIMUM
BITUMINOUS CONCRETE, TYPE 'C'	1.25"	2"
BITUMINOUS CONCRETE, TYPE 'B'	2.25"	4"
BITUMINOUS CONCRETE BASE COURSE	3"	6"
GRADED AGGREGATE BASE COURSE	3"	8"

UNOFFICIAL WEBSITE COPY

ADDENDUMS / REVISIONS	NOT TO SCALE	ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS	CONTRACT T201620019	BRIDGE NO. N/A	TYPICAL SECTIONS	SECTION RK&K
			COUNTY SUSSEX	DESIGNED BY: BEB		SHEET NO. 6
				CHECKED BY: BAH		

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SR-1

CIRCULAR CURVE NO. 1

		STATION	NORTHING	EASTING
ELEMENT: CIRCULAR				
POB (	10000)	100+00.00	192408.1231	759100.9045
PI (	10001)	101+40.77	192308.5629	759200.4230
CC (	11000)		191416.4909	758108.8569
PCC (	10002)	102+80.60	192191.2124	759278.1727
RADIUS:		1402.6734		
DELTA:		11° 27′ 42.6067″ RIGHT		
DEGREE OF CURVATURE(ARC):		4° 05′ 05.1199″		
LENGTH:		280.6003		
TANGENT:		140.7699		
CHORD:		280.1326		
MIDDLE ORDINATE:		7.0108		
EXTERNAL:		7.0460		
TANGENT DIRECTION:		S 44° 59′ 16.8100″ E		
RADIAL DIRECTION:		S 45° 00′ 43.1900″ W		
CHORD DIRECTION:		S 39° 15′ 25.5067″ E		
RADIAL DIRECTION:		S 56° 28′ 25.7966″ W		
TANGENT DIRECTION:		S 33° 31′ 34.2034″ E		

SR-1

CIRCULAR CURVE NO. 2

		STATION	NORTHING	EASTING
ELEMENT: CIRCULAR				
PCC (	10002)	102+80.60	192191.2124	759278.1727
PI (	10003)	103+51.64	192131.9889	759317.4107
CC (	12000)		191260.8178	757873.8938
PCC (	10004)	104+22.60	192069.6721	759351.5230
RADIUS:		1684.5276		
DELTA:		4° 49′ 47.5362″ RIGHT		
DEGREE OF CURVATURE(ARC):		3° 24′ 04.6673″		
LENGTH:		142.0009		
TANGENT:		71.0425		
CHORD:		141.9588		
MIDDLE ORDINATE:		1.4961		
EXTERNAL:		1.4974		
TANGENT DIRECTION:		S 33° 31′ 34.2034″ E		
RADIAL DIRECTION:		S 56° 28′ 25.7966″ W		
CHORD DIRECTION:		S 31° 06′ 40.4353″ E		
RADIAL DIRECTION:		S 61° 18′ 13.3328″ W		
TANGENT DIRECTION:		S 28° 41′ 46.6672″ E		

SR-1

CIRCULAR CURVE NO. 3

		STATION	NORTHING	EASTING
ELEMENT: CIRCULAR				
PCC (	10004)	104+22.60	192069.6721	759351.5230
PI (	10005)	107+31.66	191798.5713	759499.9236
CC (	13000)		191382.5490	758096.2744
PT (	10006)	110+31.37	191490.3897	759523.2143
RADIUS:		1431.0092		
DELTA:		24° 22′ 27.8164″ RIGHT		
DEGREE OF CURVATURE(ARC):		4° 00′ 13.9401″		
LENGTH:		608.7705		
TANGENT:		309.0604		
CHORD:		604.1903		
MIDDLE ORDINATE:		32.2505		
EXTERNAL:		32.9941		
TANGENT DIRECTION:		S 28° 41′ 46.6672″ E		
RADIAL DIRECTION:		S 61° 18′ 13.3328″ W		
CHORD DIRECTION:		S 16° 30′ 32.7590″ E		
RADIAL DIRECTION:		S 85° 40′ 41.1492″ W		
TANGENT DIRECTION:		S 4° 19′ 18.8508″ E		

PENNSYLVANIA AVENUE

CIRCULAR CURVE NO. 4

		STATION	NORTHING	EASTING
ELEMENT: CIRCULAR				
PC (	20001)	2+30.51	192609.1039	759356.5593
PI (	20002)	3+03.87	192537.0341	759370.2622
CC (	14000)		191846.2689	755344.4590
PT (	20003)	3+77.21	192464.5186	759381.3679
RADIUS:		4083.9768		
DELTA:		2° 03′ 29.5225″ RIGHT		
DEGREE OF CURVATURE(ARC):		1° 24′ 10.5871″		
LENGTH:		146.7062		
TANGENT:		73.3610		
CHORD:		146.6983		
MIDDLE ORDINATE:		0.6587		
EXTERNAL:		0.6588		
TANGENT DIRECTION:		S 10° 45′ 55.2742″ E		
RADIAL DIRECTION:		S 79° 14′ 04.7258″ W		
CHORD DIRECTION:		S 9° 44′ 10.5130″ E		
RADIAL DIRECTION:		S 81° 17′ 34.2483″ W		
TANGENT DIRECTION:		S 8° 42′ 25.7517″ E		

PENNSYLVANIA AVENUE

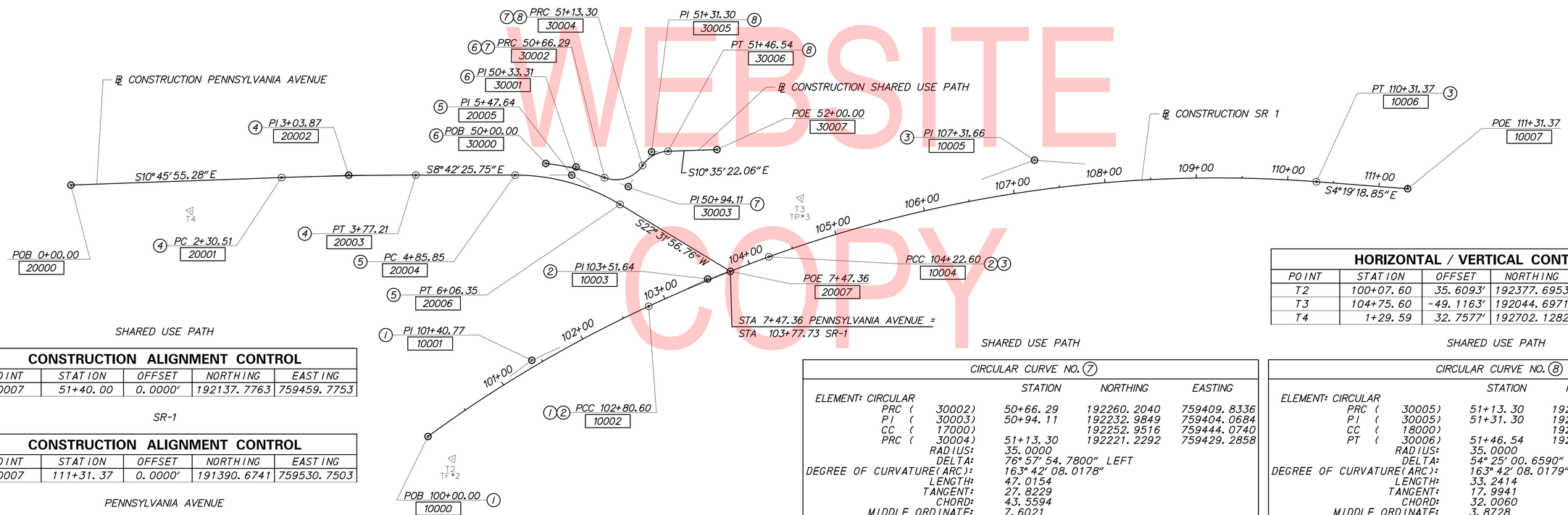
CIRCULAR CURVE NO. 5

		STATION	NORTHING	EASTING
ELEMENT: CIRCULAR				
PC (	20004)	4+85.85	192357.1332	759397.8139
PI (	20005)	5+47.64	192296.0587	759407.1674
CC (	15000)		192323.6773	759179.3609
PT (	20006)	6+06.35	192238.9887	759383.4904
RADIUS:		221.0000		
DELTA:		31° 14′ 22.5148″ RIGHT		
DEGREE OF CURVATURE(ARC):		25° 55′ 32.4915″		
LENGTH:		120.4966		
TANGENT:		61.7866		
CHORD:		119.0096		
MIDDLE ORDINATE:		8.1616		
EXTERNAL:		8.4746		
TANGENT DIRECTION:		S 8° 42′ 25.7517″ E		
RADIAL DIRECTION:		S 81° 17′ 34.2483″ W		
CHORD DIRECTION:		S 6° 54′ 45.5057″ W		
RADIAL DIRECTION:		N 67° 28′ 03.2369″ W		
TANGENT DIRECTION:		S 22° 31′ 56.7631″ W		

SHARED USE PATH

CIRCULAR CURVE NO. 6

		STATION	NORTHING	EASTING
ELEMENT: CIRCULAR				
POB (	30000)	50+00.00	192326.0795	759415.5109
PI (	30001)	50+33.31	192292.7915	759416.7359
CC (	16000)		192316.1507	759145.6935
PRC (	30002)	50+66.29	192260.2040	759409.8336
RADIUS:		270.0000		
DELTA:		14° 03′ 58.8611″ RIGHT		
DEGREE OF CURVATURE(ARC):		21° 13′ 14.3727″		
LENGTH:		66.2861		
TANGENT:		33.3105		
CHORD:		66.1198		
MIDDLE ORDINATE:		2.0316		
EXTERNAL:		2.0470		
TANGENT DIRECTION:		S 2° 06′ 26.8011″ E		
RADIAL DIRECTION:		S 87° 53′ 33.1989″ W		
CHORD DIRECTION:		S 4° 55′ 32.6294″ W		
RADIAL DIRECTION:		N 78° 02′ 27.9400″ W		
TANGENT DIRECTION:		S 11° 57′ 32.0600″ W		



HORIZONTAL / VERTICAL CONTROL DATA

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
T2	100+07.60	35.6093′	192377.6953	759080.9425	6.6200
T3	104+75.60	-49.1163′	192044.6971	759420.0309	7.5500
T4	1+29.59	32.7577′	192702.1282	759305.5277	7.1400

SHARED USE PATH

CONSTRUCTION ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
30007	51+40.00	0.0000′	192137.7763	759459.7753

SR-1

CONSTRUCTION ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
10007	111+31.37	0.0000′	191390.6741	759530.7503

PENNSYLVANIA AVENUE

CONSTRUCTION ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
20000	0+00.00	0.0000′	192835.5537	759313.5036
20007	7+50.71	0.0000′	192104.0492	759332.1784

DATUM REFERENCE:

HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83/91).

VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88.

SHARED USE PATH

CIRCULAR CURVE NO. 7

		STATION	NORTHING	EASTING
ELEMENT: CIRCULAR				
PRC (	30002)	50+66.29	192260.2040	759409.8336
PI (	30003)	50+94.11	192232.9849	759404.0684
CC (	17000)		192252.9516	759444.0740
PRC (	30004)	51+13.30	192221.2292	759429.2858
RADIUS:		35.0000		
DELTA:		76° 57′ 54.7800″ LEFT		
DEGREE OF CURVATURE(ARC):		163° 42′ 08.0178″		
LENGTH:		47.0154		
TANGENT:		27.8229		
CHORD:		43.5594		
MIDDLE ORDINATE:		7.6021		
EXTERNAL:		9.7115		
TANGENT DIRECTION:		S 11° 57′ 32.0600″ W		
RADIAL DIRECTION:		N 78° 02′ 27.9400″ W		
CHORD DIRECTION:		S 26° 31′ 25.3300″ E		
RADIAL DIRECTION:		S 24° 59′ 37.2800″ W		
TANGENT DIRECTION:		S 65° 00′ 22.7200″ E		

CIRCULAR CURVE NO. 8

		STATION	NORTHING	EASTING
ELEMENT: CIRCULAR				
PRC (	30005)	51+13.30	192221.2292	759429.2858
PI (	30005)	51+31.30	192213.6264	759445.5948
CC (	18000)		192189.5068	759414.4977
PT (	30006)	51+46.54	192195.9388	759448.9016
RADIUS:		35.0000		
DELTA:		54° 25′ 00.6590″ RIGHT		
DEGREE OF CURVATURE(ARC):		163° 42′ 08.0179″		
LENGTH:		33.2414		
TANGENT:		17.9941		
CHORD:		32.0060		
MIDDLE ORDINATE:		3.8728		
EXTERNAL:		4.3546		
TANGENT DIRECTION:		S 65° 00′ 22.7200″ E		
RADIAL DIRECTION:		S 24° 59′ 37.2800″ W		
CHORD DIRECTION:		S 37° 47′ 52.3905″ E		
RADIAL DIRECTION:		S 79° 24′ 37.9390″ W		
TANGENT DIRECTION:		S 10° 35′ 22.0610″ E		

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ADDENDUMS / REVISIONS

SCALE 0 60 120 180 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: BEB	
COUNTY		
SUSSEX	CHECKED BY: BAH	

HORIZONTAL AND VERTICAL CONTROL

SECTION RK&K

SHEET NO. 7

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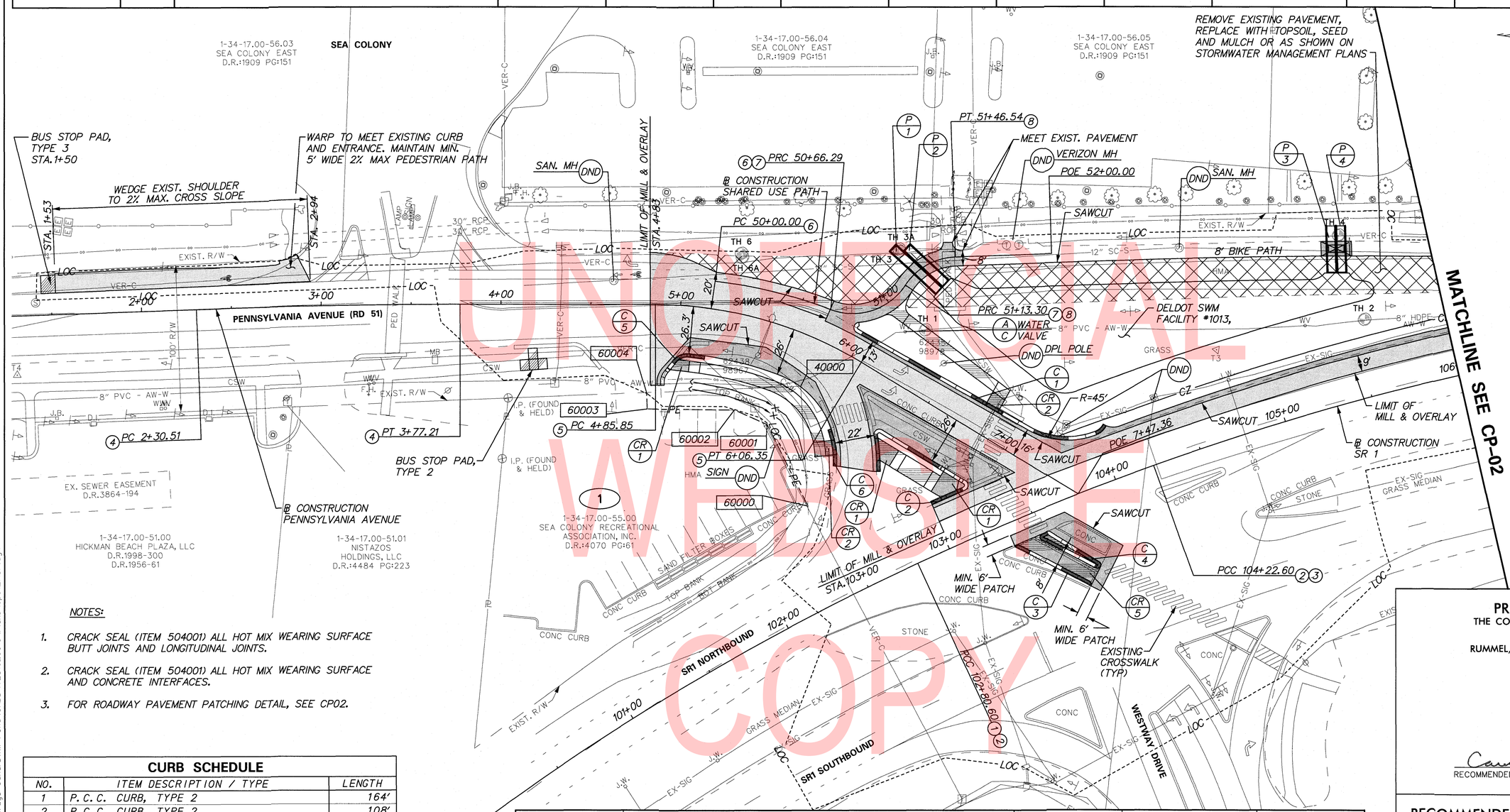
COUNTY ASSESSMENT PARCEL NUMBER	PLAN SHEET NUMBER	OWNERSHIP OF RECORD	TITLE SOURCE	PROPERTY AREA BEFORE ACQUISITION (ACRE) D=DEED C=CALCULATED A=ASSESMENT	ACQUISITION CODE FEE, R/W, P/E, TCE	AREA TO BE ACQUIRED: ACQUISITION (SQ. FEET /ACRES)	AREA OCCUPIED BY EXISTING RIGHT OF WAY (SQ. FEET /ACRES)	EASEMENT: PERMANENT (SQ. FEET /ACRES)	EASEMENT: TEMPORARY (SQ. FEET /ACRES)	PROPERTY AREA REMAINING (SQ. FEET /ACRES)	DEED RECORD OF ACQUISITION	REMARKS
1-34-17.00-55.00	-	(1) SEA COLONY RECREATIONAL ASSOCIATION, INC.	4070-61	D - 0.53	P/E			1648.9309 / 0.04		22991.00 / 0.53		



NOTES:

1. CRACK SEAL (ITEM 504001) ALL HOT MIX WEARING SURFACE BUTT JOINTS AND LONGITUDINAL JOINTS.
2. CRACK SEAL (ITEM 504001) ALL HOT MIX WEARING SURFACE AND CONCRETE INTERFACES.
3. FOR ROADWAY PAVEMENT PATCHING DETAIL, SEE CP02.

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	P.C.C. CURB, TYPE 2	164'
2	P.C.C. CURB, TYPE 2	108'
3	P.C.C. CURB, TYPE 2	50'
4	P.C.C. CURB, TYPE 2	82'
5	P.C.C. CURB, TYPE 2	35'
6	P.C.C. CURB, TYPE 2	20'

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	4' x 2' PCBC*	35'	0.001	3.85	3.80
2	4' x 2' PCBC*	29'	0.001	3.84	3.80
3	4' x 2' PCBC*	26'	0.001	3.68	3.63
4	4' x 2' PCBC*	26'	0.001	3.68	3.63

* PRECAST CONC. BOX CULVERT

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
1-34-17.00-55.00	(1) SEA COLONY RECREATIONAL ASSOCIATION, INC.	P/E	4070-61	0.528

ALIGNMENT NUMBER & DESCRIPTION: 30100 - SR-1, 30000 - PENNSYLVANIA AVENUE

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
60000	30100	102+40.08	-55.09	192256.4109	759300.3354	N 54°40'18.20" E	50.48				
60001	30000	5+70.41	54.43	192285.5993	759341.5165	N 15°05'55.56" E	20.03				
60002	30000	5+44.08	52.58	192304.9375	759346.7339	N 8°07'02.84" W	48.51				
60003	30000	4+81.21	57.89	192352.9569	759339.8848	N 78°57'11.91" E	9.13				
60004	30000	4+80.84	48.77	192354.7069	759348.8488	S 11°01'57.29" E	85.90				
40000	30000	5+81.12	27.59	192270.3945	759365.2872	S 77°51'00.71" W	66.44				
60000	30100	102+40.08	-55.09	192256.4109	759300.3354						

FIGURE 60000 AREA = 1648.9309 SQ. FT. (0.0379 ACRES)

* "-" OFFSET IS LEFT OF BASELINE

PREPARED BY
THE CONSULTING FIRM OF
RUMMEL, KLEPPER & KAHL, LLP

SEAL

RECOMMENDED — DATE 3/20/19

RECOMMENDED AS TO ENGINEERING NEED

MANAGER, ROW ENGINEERING — DATE 3/25/19

PROGRAM MANAGER, TEAM SUPPORT — DATE 3/25/19

TECHNICAL REVIEWER, TEAM SUPPORT — DATE

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: BEB	
COUNTY: SUSSEX	CHECKED BY: BAH	

CONSTRUCTION PLAN & RIGHT-OF-WAY PLAN

CP-01 | SECTION RK&K | SHEET NO. 8

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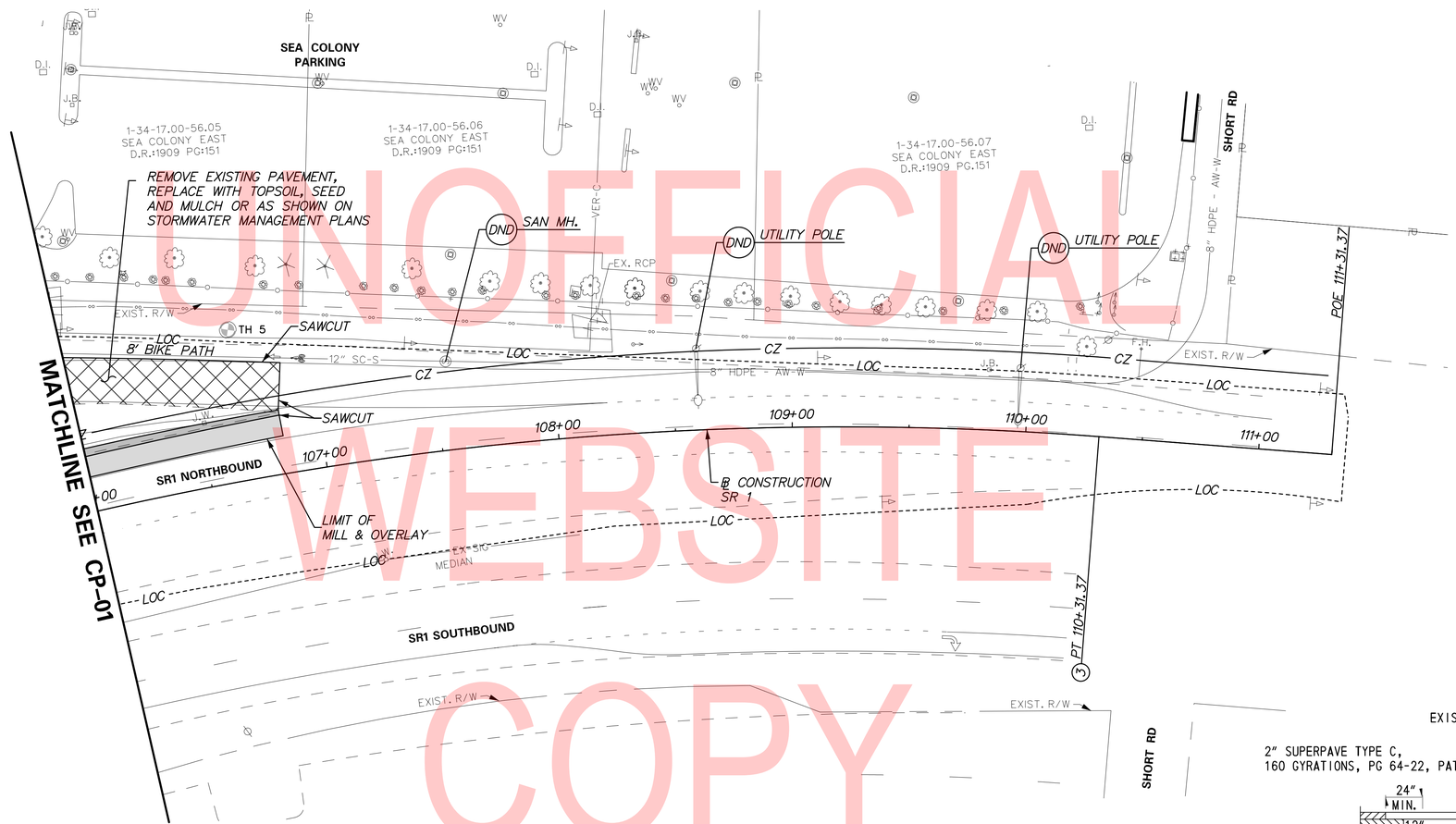

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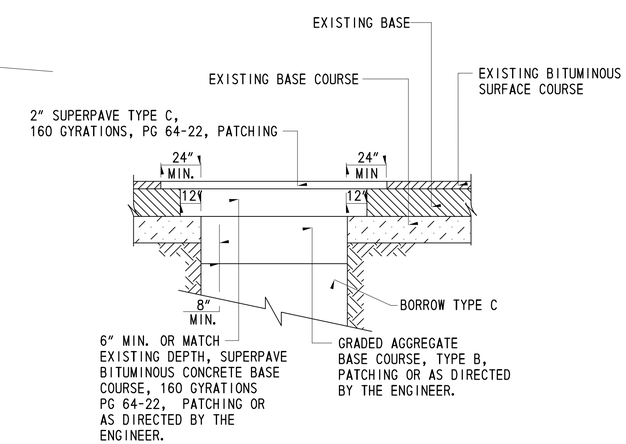
NOTES:

1. CRACK SEAL (ITEM 504001) ALL HOT MIX WEARING SURFACE BUTT JOINTS AND LONGITUDINAL JOINTS.
2. CRACK SEAL (ITEM 504001) ALL HOT MIX WEARING SURFACE AND CONCRETE INTERFACES.
3. FOR ROADWAY PAVEMENT PATCHING DETAIL, SEE DETAIL THIS SHEET.



ROADWAY PAVEMENT PATCHING SECTION

ADDENDUMS / REVISIONS		SCALE 0 30 60 90 FEET	ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS	CONTRACT T201620019	BRIDGE NO. N/A	CONSTRUCTION PLAN	CP-02 SECTION RK&K
				COUNTY SUSSEX	DESIGNED BY: BEB		SHEET NO. 9
					CHECKED BY: BAH		

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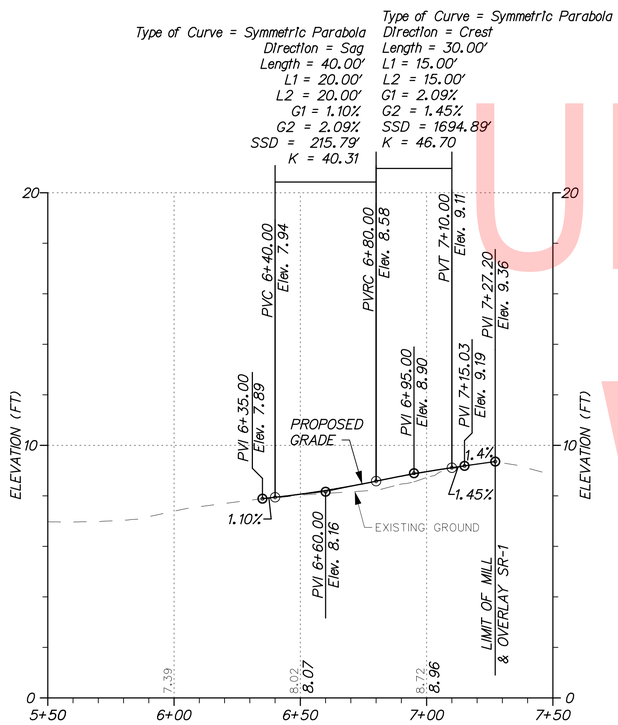

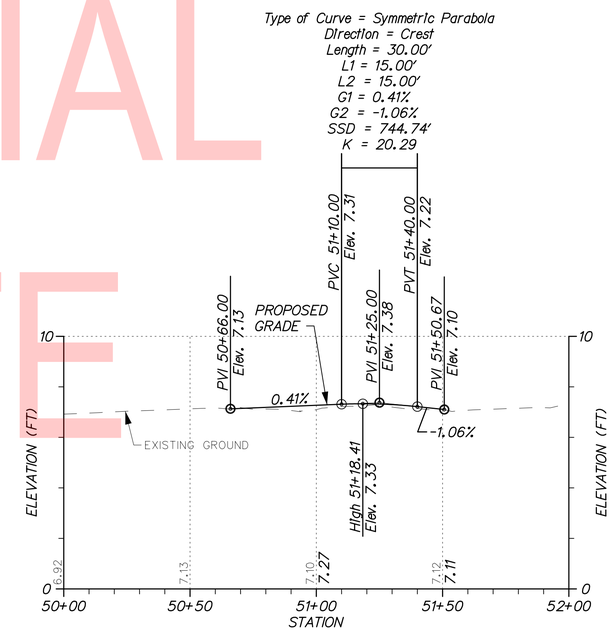

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VERTICAL SCALE FEET 9 6 3 0

ADDENDUMS / REVISIONS	

SCALE 0 30 60 90 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: BEB	
COUNTY	CHECKED BY: BAH	
SUSSEX		

PROFILES

SECTION
RK&K
SHEET NO.
10

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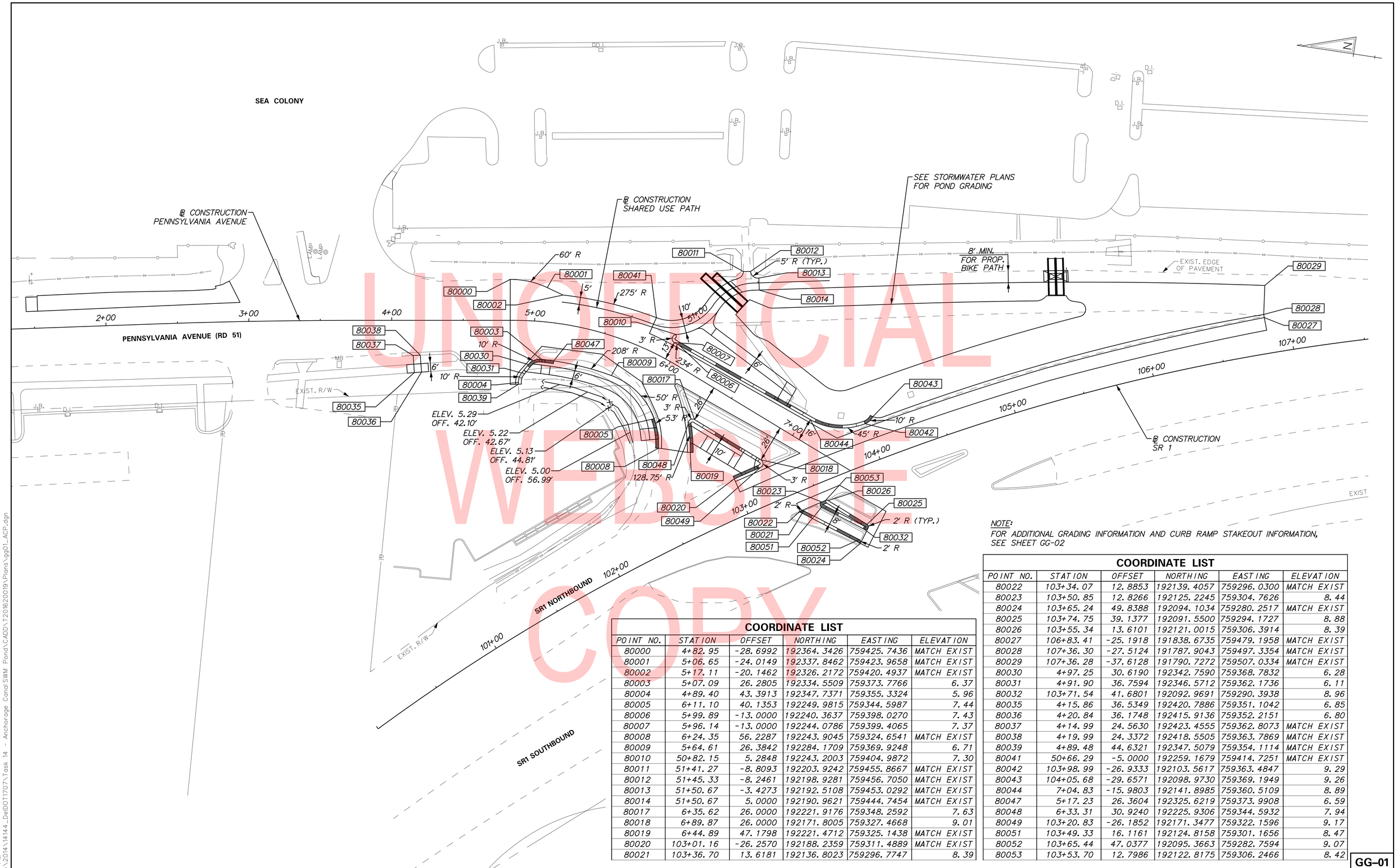

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NOTE:
FOR ADDITIONAL GRADING INFORMATION AND CURB RAMP STAKEOUT INFORMATION, SEE SHEET GG-02

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
80000	4+82.95	-28.6992	192364.3426	759425.7436	MATCH EXIST
80001	5+06.65	-24.0149	192337.8462	759423.9658	MATCH EXIST
80002	5+17.11	-20.1462	192326.2172	759420.4937	MATCH EXIST
80003	5+07.09	26.2805	192334.5509	759373.7766	6.37
80004	4+89.40	43.3913	192347.7371	759355.3324	5.96
80005	6+11.10	40.1353	192249.9815	759344.5987	7.44
80006	5+99.89	-13.0000	192240.3637	759398.0270	7.43
80007	5+96.14	-13.0000	192244.0786	759399.4065	7.37
80008	6+24.35	56.2287	192243.9045	759324.6541	MATCH EXIST
80009	5+64.61	26.3842	192284.1709	759369.9248	6.71
80010	50+82.15	5.2848	192243.2003	759404.9872	7.30
80011	51+41.27	-8.8093	192203.9242	759455.8667	MATCH EXIST
80012	51+45.33	-8.2461	192198.9281	759456.7050	MATCH EXIST
80013	51+50.67	-3.4273	192192.5108	759453.0292	MATCH EXIST
80014	51+50.67	5.0000	192190.9621	759444.7454	MATCH EXIST
80017	6+35.62	26.0000	192221.9176	759348.2592	7.63
80018	6+89.87	26.0000	192171.8005	759327.4668	9.01
80019	6+44.89	47.1798	192221.4712	759325.1438	MATCH EXIST
80020	103+01.16	-26.2570	192188.2359	759311.4889	MATCH EXIST
80021	103+36.70	13.6181	192136.8023	759296.7747	8.39

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
80022	103+34.07	12.8853	192139.4057	759296.0300	MATCH EXIST
80023	103+50.85	12.8266	192125.2245	759304.7626	8.44
80024	103+65.24	49.8388	192094.1034	759280.2517	MATCH EXIST
80025	103+74.75	39.1377	192091.5500	759294.1727	8.88
80026	103+55.34	13.6101	192121.0015	759306.3914	8.39
80027	106+83.41	-25.1918	191838.6735	759479.1958	MATCH EXIST
80028	107+36.30	-27.5124	191787.9043	759497.3354	MATCH EXIST
80029	107+36.28	-37.6128	191790.7272	759507.0334	MATCH EXIST
80030	4+97.25	30.6190	192342.7590	759368.7832	6.28
80031	4+91.90	36.7594	192346.5712	759362.1736	6.11
80032	103+71.54	41.6801	192092.9691	759290.3938	8.96
80035	4+15.86	36.5349	192420.7886	759351.1042	6.85
80036	4+20.84	36.1748	192415.9136	759352.2151	6.80
80037	4+14.99	24.5630	192423.4555	759362.8073	MATCH EXIST
80038	4+19.99	24.3372	192418.5505	759363.7869	MATCH EXIST
80039	4+89.48	44.6321	192347.5079	759354.1114	MATCH EXIST
80041	50+66.29	-5.0000	192259.1679	759414.7251	MATCH EXIST
80042	103+98.99	-26.9333	192103.5617	759363.4847	9.29
80043	104+05.68	-29.6571	192098.9730	759369.1949	9.26
80044	7+04.83	-15.9803	192141.8985	759360.5109	8.89
80047	5+17.23	26.3604	192325.6219	759373.9908	6.59
80048	6+33.31	30.9240	192225.9306	759344.5932	7.94
80049	103+20.83	-26.1852	192171.3477	759322.1596	9.17
80051	103+49.33	16.1161	192124.8158	759301.1656	8.47
80052	103+65.44	47.0377	192095.3663	759282.7594	9.07
80053	103+53.70	12.7986	192122.8175	759306.2466	8.42

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: BEB	
COUNTY		
SUSSEX	CHECKED BY: BAH	

GRADES AND GEOMETRICS

GG-01

SECTION RK&K

SHEET NO. 11

11/25/2018 11:20 PM
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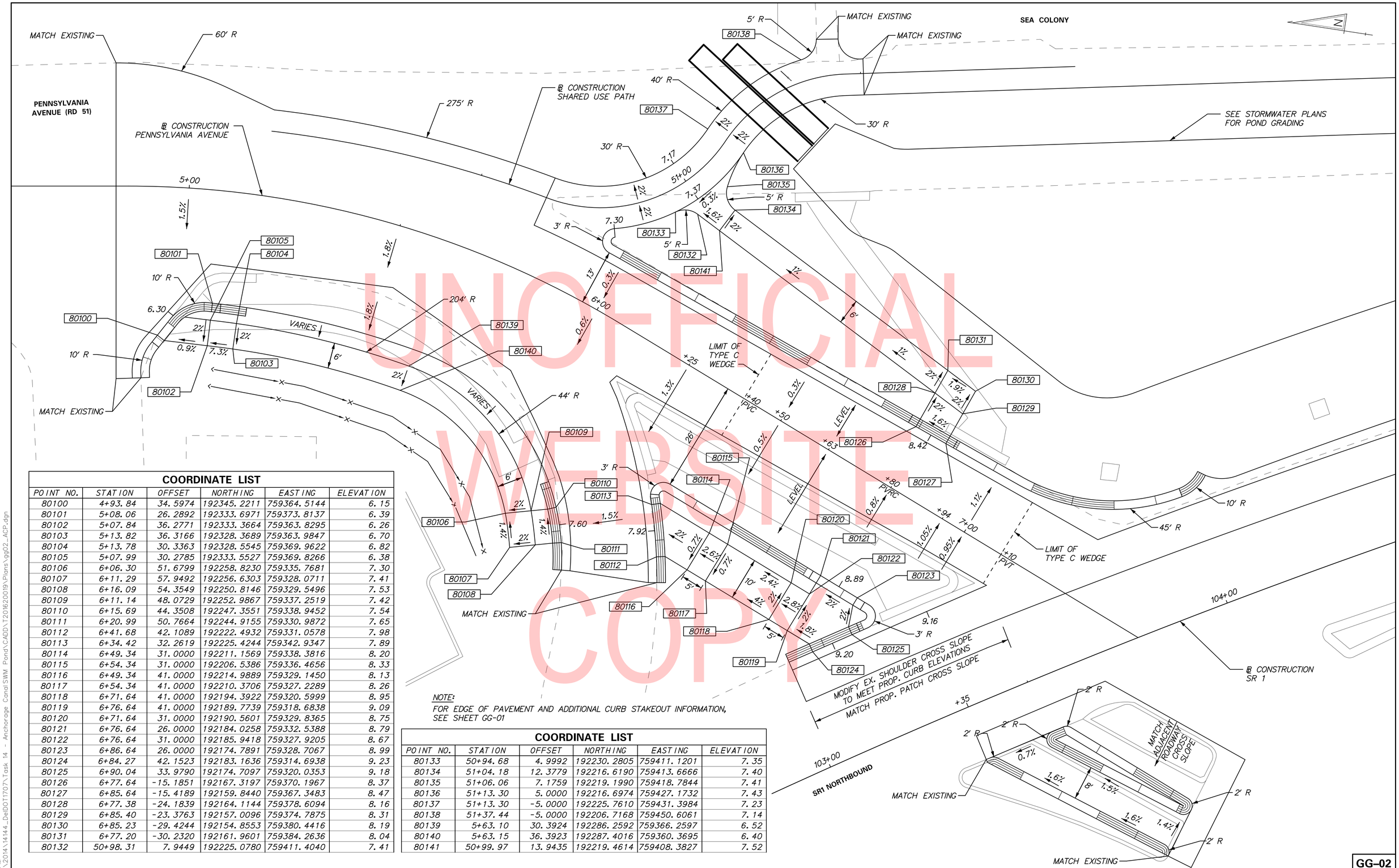

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COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
80100	4+93.84	34.5974	192345.2211	759364.5144	6.15
80101	5+08.06	26.2892	192333.6971	759373.8137	6.39
80102	5+07.84	36.2771	192333.3664	759363.8295	6.26
80103	5+13.82	36.3166	192328.3689	759363.9847	6.70
80104	5+13.78	30.3363	192328.5545	759369.9622	6.82
80105	5+07.99	30.2785	192333.5527	759369.8266	6.38
80106	6+06.30	51.6799	192258.8230	759335.7681	7.30
80107	6+11.29	57.9492	192256.6303	759328.0711	7.41
80108	6+16.09	54.3549	192250.8146	759329.5496	7.53
80109	6+11.14	48.0729	192252.9867	759337.2519	7.42
80110	6+15.69	44.3508	192247.3551	759338.9452	7.54
80111	6+20.99	50.7664	192244.9155	759330.9872	7.65
80112	6+41.68	42.1089	192222.4932	759331.0578	7.98
80113	6+34.42	32.2619	192225.4244	759342.9347	7.89
80114	6+49.34	31.0000	192211.1569	759338.3816	8.20
80115	6+54.34	31.0000	192206.5386	759336.4656	8.33
80116	6+49.34	41.0000	192214.9889	759329.1450	8.13
80117	6+54.34	41.0000	192210.3706	759327.2289	8.26
80118	6+71.64	41.0000	192194.3922	759320.5999	8.95
80119	6+76.64	41.0000	192189.7739	759318.6838	9.09
80120	6+71.64	31.0000	192190.5601	759329.8365	8.75
80121	6+76.64	26.0000	192184.0258	759332.5388	8.79
80122	6+76.64	31.0000	192185.9418	759327.9205	8.67
80123	6+86.64	26.0000	192174.7891	759328.7067	8.99
80124	6+84.27	42.1523	192183.1636	759314.6938	9.23
80125	6+90.04	33.9790	192174.7097	759320.0353	9.18
80126	6+77.64	-15.1851	192167.3197	759370.1967	8.37
80127	6+85.64	-15.4189	192159.8440	759367.3483	8.47
80128	6+77.38	-24.1839	192164.1144	759378.6094	8.16
80129	6+85.40	-23.3763	192157.0096	759374.7875	8.31
80130	6+85.23	-29.4244	192154.8553	759380.4416	8.19
80131	6+77.20	-30.2320	192161.9601	759384.2636	8.04
80132	50+98.31	7.9449	192225.0780	759411.4040	7.41

NOTE:
FOR EDGE OF PAVEMENT AND ADDITIONAL CURB STAKEOUT INFORMATION, SEE SHEET GG-01

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
80133	50+94.68	4.9992	192230.2805	759411.1201	7.35
80134	51+04.18	12.3779	192216.6190	759413.6666	7.40
80135	51+06.06	7.1759	192219.1990	759418.7844	7.41
80136	51+13.30	5.0000	192216.6974	759427.1732	7.43
80137	51+13.30	-5.0000	192225.7610	759431.3984	7.23
80138	51+37.44	-5.0000	192206.7168	759450.6061	7.14
80139	5+63.10	30.3924	192286.2592	759366.2597	6.52
80140	5+63.15	36.3923	192287.4016	759360.3695	6.40
80141	50+99.97	13.9435	192219.4614	759408.3827	7.52

ADDENDUMS / REVISIONS

SCALE 0 10 20 30 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: BEB	
COUNTY		
SUSSEX	CHECKED BY: BAH	

GRADES AND GEOMETRICS

GG-02

SECTION: RK&K

SHEET NO.: 12

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DESIGN SUMMARY FOR WET POND

DESIGN STORM	FACILITY INFLOW	FACILITY DISCHARGE	WATER SURFACE ELEVATION	STORAGE VOLUME (AC. FT.)
1 - YEAR	2.77 cfs	0.68 cfs	5.20 ft	0.286
10 - YEAR	14.04 cfs	12.09 cfs	6.91 ft	0.765
100 - YEAR	53.65 cfs	55.41 cfs	8.74 ft	0.794

SECTIONS COORDINATE LIST

SECTION	STATION	NORTHING	EASTING
A	10+00	192234.5847	759454.2688
A	10+41.1053	192200.5745	759431.1829
A	10+61.5729	192181.7673	759423.1076
A	10+82.8936	192160.7390	759419.5885
A	11+23.4714	192120.2049	759417.7080
A	11+58.9251	192086.6034	759429.0176
A	11+74.9571	192072.2439	759436.1471

SECTIONS COORDINATE LIST

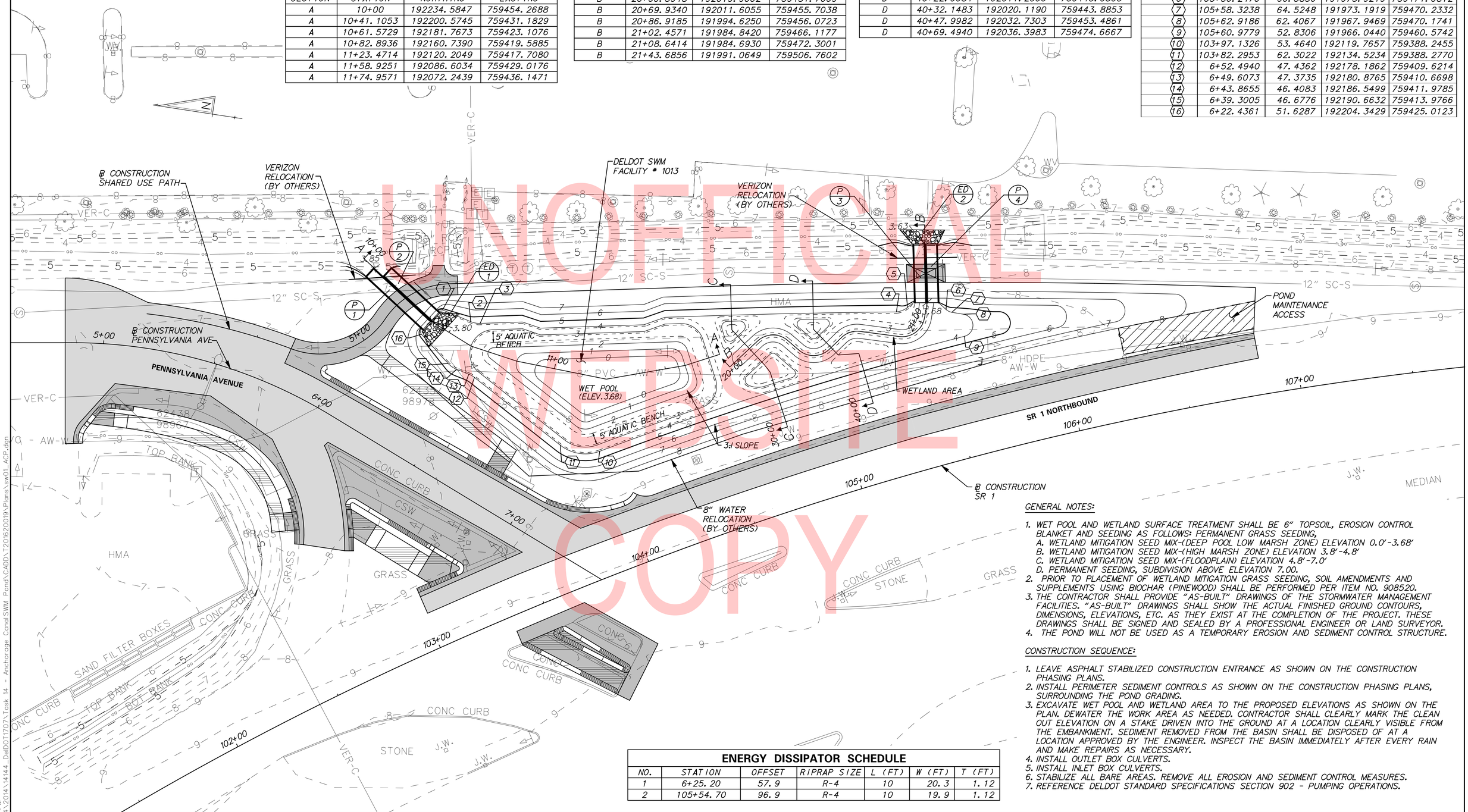
SECTION	STATION	NORTHING	EASTING
B	20+00	192066.9089	759431.3427
B	20+16.8657	192056.4651	759444.5858
B	20+31.4878	192043.3081	759446.8704
B	20+38.0882	192037.7130	759443.3689
B	20+52.8811	192024.4514	759445.7885
B	20+60.3948	192019.9002	759451.7669
B	20+69.9340	192011.6055	759455.7038
B	20+86.9185	191994.6250	759456.0723
B	21+02.4571	191984.8420	759466.1177
B	21+08.6414	191984.6930	759472.3001
B	21+43.6856	191991.0649	759506.7602

SECTIONS COORDINATE LIST

SECTION	STATION	NORTHING	EASTING
C	30+00	192037.5578	759408.9217
C	30+25.5578	192048.8768	759431.8363
C	30+50.8265	192068.4939	759447.7453
C	30+70.9205	192072.1271	759467.5081
D	40+00.0000	192001.5492	759425.0550
D	40+22.9984	192011.2006	759445.9303
D	40+32.1483	192020.1190	759443.8853
D	40+47.9982	192032.7303	759453.4861
D	40+69.4940	192036.3983	759474.6667

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
1	6+22.4361	51.6287	192196.7025	759437.0727
2	6+38.2698	67.7340	192183.5463	759433.8206
3	6+41.2600	69.7770	192179.3089	759433.7000
4	105+35.6657	71.0518	191997.5442	759466.6641
5	105+40.7351	71.6683	191992.9361	759469.3976
6	105+56.2470	66.3836	191975.9219	759471.0812
7	105+58.3238	64.5248	191973.1919	759470.2332
8	105+62.9186	62.4067	191967.9469	759470.1741
9	105+60.9779	52.8306	191966.0440	759460.5742
10	103+97.1326	53.4640	192119.7657	759388.2455
11	103+82.2953	62.3022	192134.5234	759388.2770
12	6+52.4940	47.4362	192178.1862	759409.6214
13	6+49.6073	47.3735	192180.8765	759410.6698
14	6+43.8655	46.4083	192186.5499	759411.9785
15	6+39.3005	46.6776	192190.6632	759413.9766
16	6+22.4361	51.6287	192204.3429	759425.0123



ENERGY DISSIPATOR SCHEDULE

NO.	STATION	OFFSET	RIPRAP SIZE	L (FT)	W (FT)	T (FT)
1	6+25.20	57.9	R-4	10	20.3	1.12
2	105+54.70	96.9	R-4	10	19.9	1.12

GENERAL NOTES:

1. WET POOL AND WETLAND SURFACE TREATMENT SHALL BE 6" TOPSOIL, EROSION CONTROL BLANKET AND SEEDING AS FOLLOWS: PERMANENT GRASS SEEDING,
   A. WETLAND MITIGATION SEED MIX-(DEEP POOL LOW MARSH ZONE) ELEVATION 0.0'-3.68'
   B. WETLAND MITIGATION SEED MIX-(HIGH MARSH ZONE) ELEVATION 3.8'-4.8'
   C. WETLAND MITIGATION SEED MIX-(FLOODPLAIN) ELEVATION 4.8'-7.0'
   D. PERMANENT SEEDING, SUBDIVISION ABOVE ELEVATION 7.00.
2. PRIOR TO PLACEMENT OF WETLAND MITIGATION GRASS SEEDING, SOIL AMENDMENTS AND SUPPLEMENTS USING BIOCHAR (PINEWOOD) SHALL BE PERFORMED PER ITEM NO. 908520.
3. THE CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE STORMWATER MANAGEMENT FACILITIES. "AS-BUILT" DRAWINGS SHALL SHOW THE ACTUAL FINISHED GROUND CONTOURS, DIMENSIONS, ELEVATIONS, ETC. AS THEY EXIST AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR LAND SURVEYOR.
4. THE POND WILL NOT BE USED AS A TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURE.

CONSTRUCTION SEQUENCE:

1. LEAVE ASPHALT STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON THE CONSTRUCTION PHASING PLANS.
2. INSTALL PERIMETER SEDIMENT CONTROLS AS SHOWN ON THE CONSTRUCTION PHASING PLANS, SURROUNDING THE POND GRADING.
3. EXCAVATE WET POOL AND WETLAND AREA TO THE PROPOSED ELEVATIONS AS SHOWN ON THE PLAN. DEWATER THE WORK AREA AS NEEDED. CONTRACTOR SHALL CLEARLY MARK THE CLEAN OUT ELEVATION ON A STAKE DRIVEN INTO THE GROUND AT A LOCATION CLEARLY VISIBLE FROM THE EMBANKMENT. SEDIMENT REMOVED FROM THE BASIN SHALL BE DISPOSED OF AT A LOCATION APPROVED BY THE ENGINEER. INSPECT THE BASIN IMMEDIATELY AFTER EVERY RAIN AND MAKE REPAIRS AS NECESSARY.
4. INSTALL OUTLET BOX CULVERTS.
5. INSTALL INLET BOX CULVERTS.
6. STABILIZE ALL BARE AREAS. REMOVE ALL EROSION AND SEDIMENT CONTROL MEASURES.
7. REFERENCE DELDOT STANDARD SPECIFICATIONS SECTION 902 - PUMPING OPERATIONS.

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ADDENDUMS / REVISIONS

SCALE 0 20 40 60 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: JAC	
COUNTY		
SUSSEX	CHECKED BY: LT	

STORMWATER MANAGEMENT PLAN

SECTION: RK&K

SHEET NO. 13

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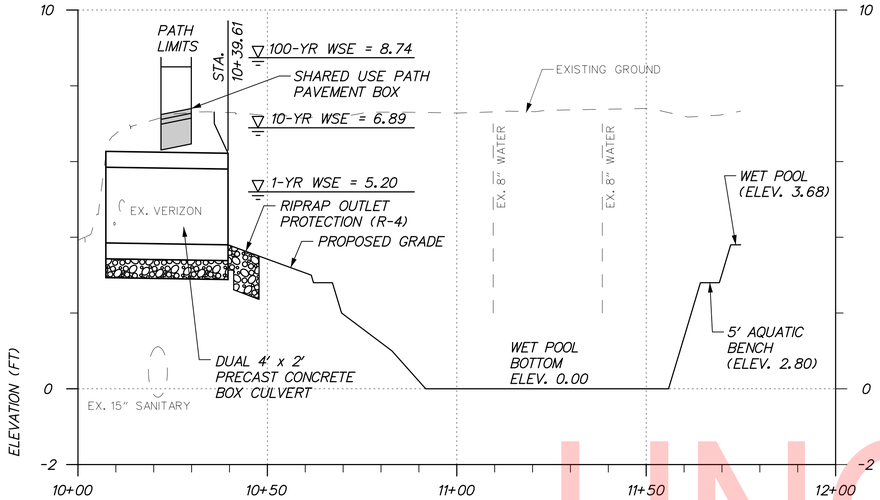
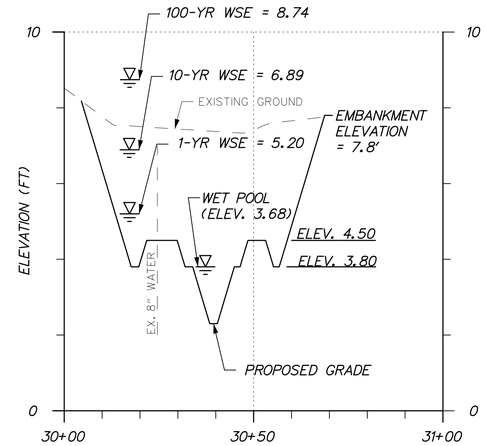
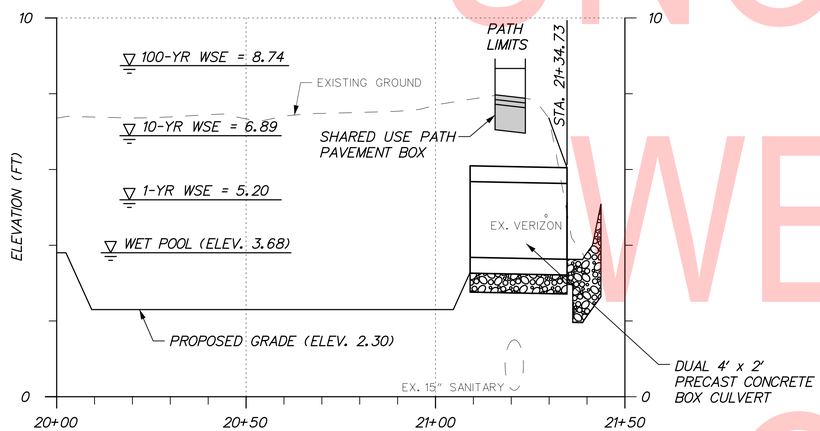


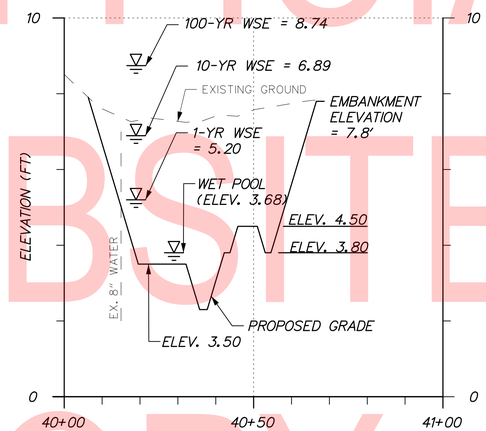
PROFILE A-A



SECTION C-C



PROFILE B-B



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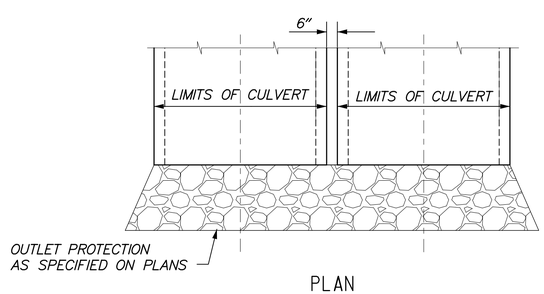
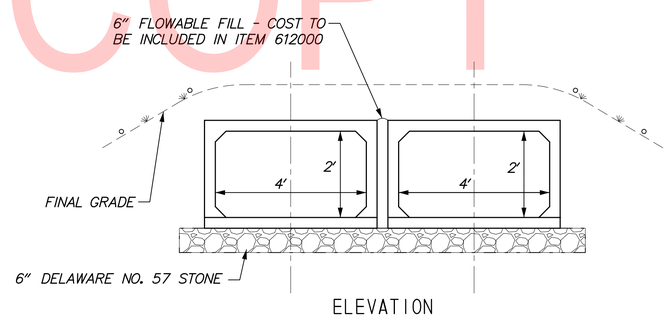


PLAN



ELEVATION

PRECAST CONCRETE BOX CULVERT

(612000)

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VERTICAL SCALE FEET 0 2 4 6

ADDENDUMS / REVISIONS	SCALE 0 20 40 60 FEET	ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS	CONTRACT T201620019	BRIDGE NO. N/A	STORMWATER MANAGEMENT PLAN DETAILS	SECTION RK&K
			COUNTY SUSSEX	DESIGNED BY: JAC		SHEET NO. 14
				CHECKED BY: LT		

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MAINTENANCE OF TRAFFIC NOTES

1. AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

( )	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
(X)	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 801000.

2. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND LANE SHIFTS SHALL CONFORM TO TYPICAL APPLICATIONS TA-3A, TA-11B, TA-21, TA-28, TA-29, TA-33 AND TA-35B OF THE DELAWARE MUTCD.

3. ALLOWABLE LANE CLOSURES SHALL CONFORM TO THE FOLLOWING:

Table 4
SR 1 at Pennsylvania Drive / Westway Drive
Allowable Lane Closure Times
Northbound SR 1 Thru Lane & Northbound SR 1 Left-Turn Lane
November through February

	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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

4. 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 TABLE 6G-1 OF THE DELAWARE MUTCD.

5. ACCEPTABLE MATERIALS FOR TEMPORARY PEDESTRIAN PATHS SHALL INCLUDE CONCRETE, HOT-MIX, COMPACTED MILLINGS OR PLYWOOD WALKWAY STRUCTURE. PLYWOOD WALKWAY STRUCTURES SHALL ALSO INCLUDE DETECTABLE EDGING AND RAILINGS IN ACCORDANCE WITH ADA GUIDELINES AND THE DELAWARE MUTCD. TEMPORARY PEDESTRIAN PATHS SHALL BE INCIDENTAL TO ITEM 801000 UNLESS OTHERWISE SPECIFIED IN THE PLANS. STONE OR GRADED AGGREGATE BASE COURSE SHALL NOT BE USED FOR TEMPORARY PEDESTRIAN PATHS.

6. THE CONTRACTOR SHALL PROVIDE ONE TRAFFIC OFFICER FOR ANY OPERATION WHERE AN EXISTING SIGNALIZED INTERSECTION IS PLACED IN FLASH-MODE. THE TRAFFIC OFFICER IS THE ONLY INDIVIDUAL THAT CAN PLACE A TRAFFIC SIGNAL IN FLASH-MODE AND THE TRAFFIC OFFICER MUST STAY ON LOCATION UNTIL THE SIGNAL IS PLACED BACK IN STOP-AND-GO OPERATION IN ACCORDANCE WITH DELDOT'S TEMPORARY TRAFFIC CONTROL WITHIN INTERSECTIONS MEMORANDUM (WWW.MUTCD.DELDOT.GOV).

7. ADDITIONAL USAGE OF TRAFFIC OFFICERS OUTSIDE OF THE ABOVE REQUIREMENTS SHALL BE APPROVED BY THE ENGINEER IN CONSULTATION WITH THE TRAFFIC SAFETY SECTION.

8. 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.

9. VERIZON WILL SUPPORT THEIR EXISTING 3" PHONE CABLE DURING THE INSTALLATION OF BOX CULVERTS P-1 AND P-2. THE CONTRACTOR SHALL CONTACT VERIZON, AS NOTED IN THE UTILITY STATEMENT, 30 DAYS PRIOR TO EXCAVATION FOR THE CULVERTS.

EROSION AND SEDIMENT CONTROL NOTES

1. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS ARE VALID FOR A FIVE YEAR PERIOD, BEGINNING ON THE DATE THE STORMWATER ENGINEER SIGNED THE CONSTRUCTION TITLE SHEET. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE FIVE YEARS, THE CONTRACTOR WILL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS. THE STORMWATER ENGINEER WILL REVIEW THE CURRENT SEDIMENT AND STORMWATER MANAGEMENT PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.

2.

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

3. THE DISTURBED AREA FOR THIS PROJECT IS 0.86 ACRES.

4. THE REDUCED IMPERVIOUS AREA FOR THIS PROJECT IS 6,484 SQUARE FEET.

5. APPROVED SWM PLANS REMAIN VALID FOR 5 YEARS FROM THE DATE OF APPROVAL.

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
—TCF—	TEMPORARY CONSTRUCTION FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	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	
—CFL—	COMPOST FILTER LOG
CFL	COMPOST FILTER LOG / LENGTH
DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
STABILIZED CONSTRUCTION ENTRANCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
—SF—	SILT FENCE
—RSF—	SILT FENCE - REINFORCED
SP	SUMP PIT
ST	SEDIMENT TRAP / NUMBER
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
TB XXX	TURBIDITY CURTAIN / LENGTH
—T—	TURBIDITY CURTAIN
—TCF—	TEMPORARY CONSTRUCTION FENCE
TCF	TEMP. CONSTRUCTION FENCE / LENGTH

PREPARED BY
RK&K

Carey D. Webb — 5/21/19
THIS SEAL APPLIES TO ALL SHEETS BEARING THE "RK&K" SECTION DESIGNATION. — DATE

CAREY DANIEL WEBB LICENSED No. 18515 DELAWARE PROFESSIONAL ENGINEER — SEAL

"I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN OF THESE PLANS MEETS THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS."

Vincent W. Davis, P.E. — 29 MAY 2019
DELDOT STORMWATER ENGINEER — DATE

"I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THESE PLANS MEET THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS AND THAT ALL CLEARING, GRADING, AND CONSTRUCTION WILL BE ACCOMPLISHED PURSUANT TO THE PLAN."

ADDENDUMS / REVISIONS	

NOT TO SCALE

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: SJS	
COUNTY		
SUSSEX	CHECKED BY: BAH	

CONSTRUCTION PHASING, GENERAL M.O.T. NOTES

SECTION: RK&K
SHEET NO.: 15

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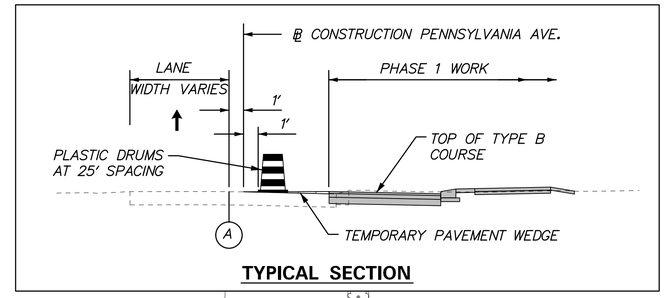
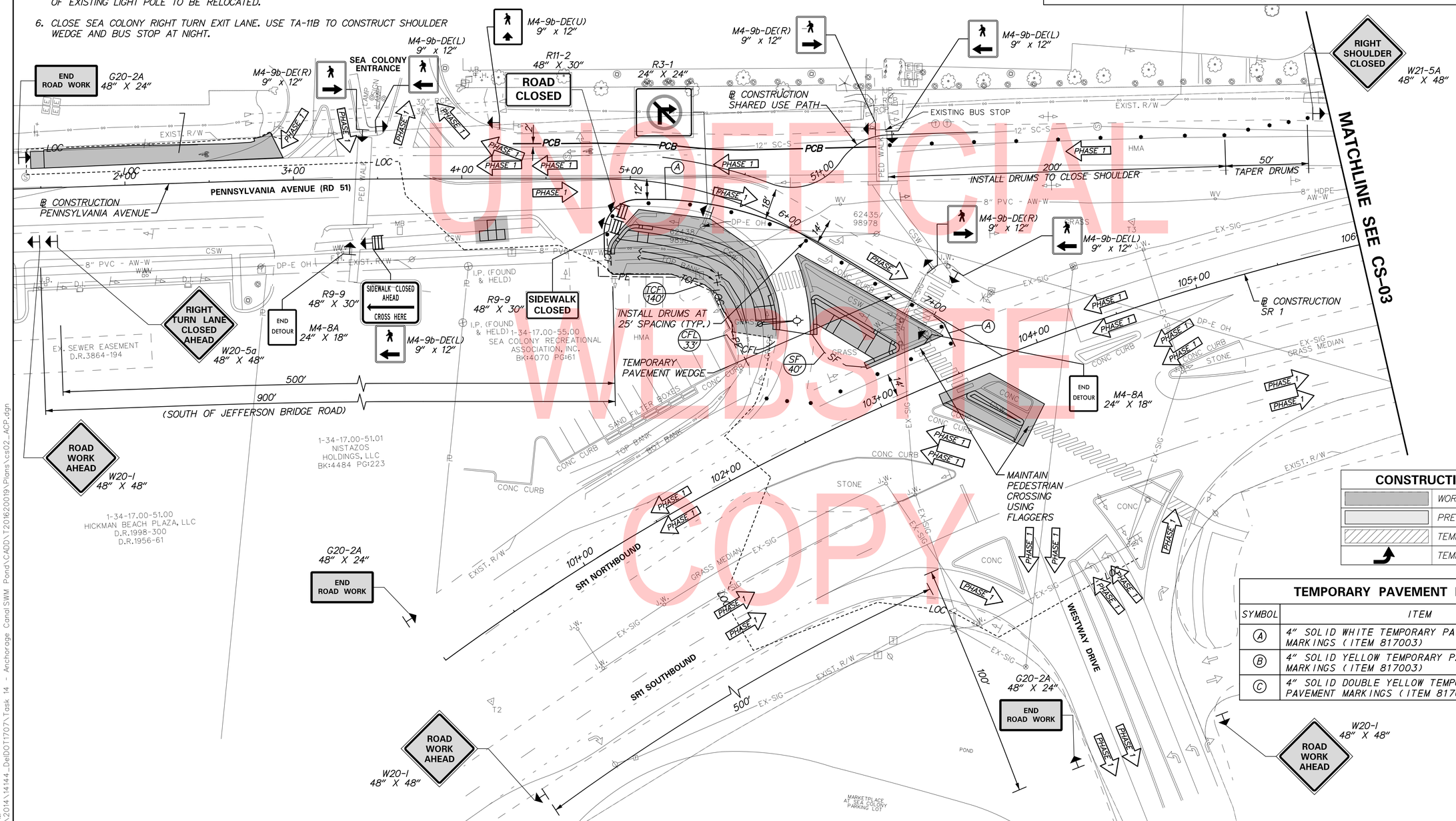
SEQUENCE OF CONSTRUCTION PHASE 1

1. PLACE ALL PERMANENT WARNING SIGNS AS SHOWN ON PLANS.
2. MAINTAIN EXISTING TRAFFIC PATTERNS ON SR 1 AS SHOWN ON PLANS.
3. IMPLEMENT DETOUR PLAN AND CLOSE RIGHTMOST SOUTHBOUND LEFT TURN LANE AND RIGHT TURN LANE ON WESTBOUND PENNSYLVANIA AVENUE AS SHOWN ON PLANS. INSTALL ALL TEMPORARY WARNING SIGNS. MAINTAIN PEDESTRIAN ACCESS AS REQUIRED USING FLAGGERS.
4. CLEAR AND GRUB PHASE 1 WORK AREA AND INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON PLANS.
5. SAWCUT AND REMOVE EXISTING CURB, SIDEWALK AND PAVEMENT ON NORTH SIDE OF INTERSECTION AS SHOWN ON PLANS. REMOVE EXISTING PEDESTRIAN SIGNAL POLES, JUNCTION WELLS AND OTHER SIGNAL EQUIPMENT. COORDINATE REMOVAL OF EXISTING LIGHT POLE TO BE RELOCATED.
6. CLOSE SEA COLONY RIGHT TURN EXIT LANE. USE TA-11B TO CONSTRUCT SHOULDER WEDGE AND BUS STOP AT NIGHT.
7. ROUGH GRADE TO PROPOSED SUBGRADE. INSTALL PEDESTRIAN POLE FOUNDATIONS, CONDUIT AND JUNCTION WELLS AS SHOWN ON PLANS. FINAL GRADE AND CONSTRUCT CURB AS SHOWN ON PLANS. PLACE BITUMINOUS CONCRETE PAVEMENT SECTION TO THE TOP OF B COURSE. FINAL GRADE AND STABILIZE PROPOSED DITCH AND CONSTRUCT SIDEWALK AND CURB RAMPS.
8. CONSTRUCT NEW PEDESTRIAN CROSSING IN MEDIAN AREA DURING NON-SUMMER MONTHS (EXCLUDING HOLIDAYS AND OTHER PERIODS AS APPROVED BY DELDOT SAFETY) USING TA-33 TO CLOSE NORTHBOUND SR 1 INTERIOR THROUGH LANE WHILE MAINTAININGONE NORTHBOUND LEFT TURN LANE TO WESTWAY DRIVE.
9. COORDINATE INSTALLATION OF RELOCATED LIGHT POLE AND PEDESTRIAN SIGNAL POLES WITH DELDOT. REOPEN SIDEWALK ON NORTH SIDE OF INTERSECTION AND CROSSING SR 1.
10. STABILIZE AREA IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATIONS BEFORE PROCEEDING TO THE NEXT PHASE. REMOVE EROSION AND SEDIMENT CONTROL DEVICES AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH CONCURRENCE FROM DELDOT'S STORMWATER ENGINEER.
11. REMOVE ALL TRAFFIC CONTROL DEVICES NOT REQUIRED FOR FUTURE CONSTRUCTION PHASES.



TYPICAL SECTION



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

TEMPORARY PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
A	4" SOLID WHITE TEMPORARY PAINT PAVEMENT MARKINGS (ITEM 817003)	244 LF
B	4" SOLID YELLOW TEMPORARY PAINT PAVEMENT MARKINGS (ITEM 817003)	X,XXX LF
C	4" SOLID DOUBLE YELLOW TEMPORARY PAINT PAVEMENT MARKINGS (ITEM 817003)	X,XXX LF

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ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: BEB	
COUNTY		
SUSSEX	CHECKED BY: BAH	

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 1

CS-02

SECTION RK&K

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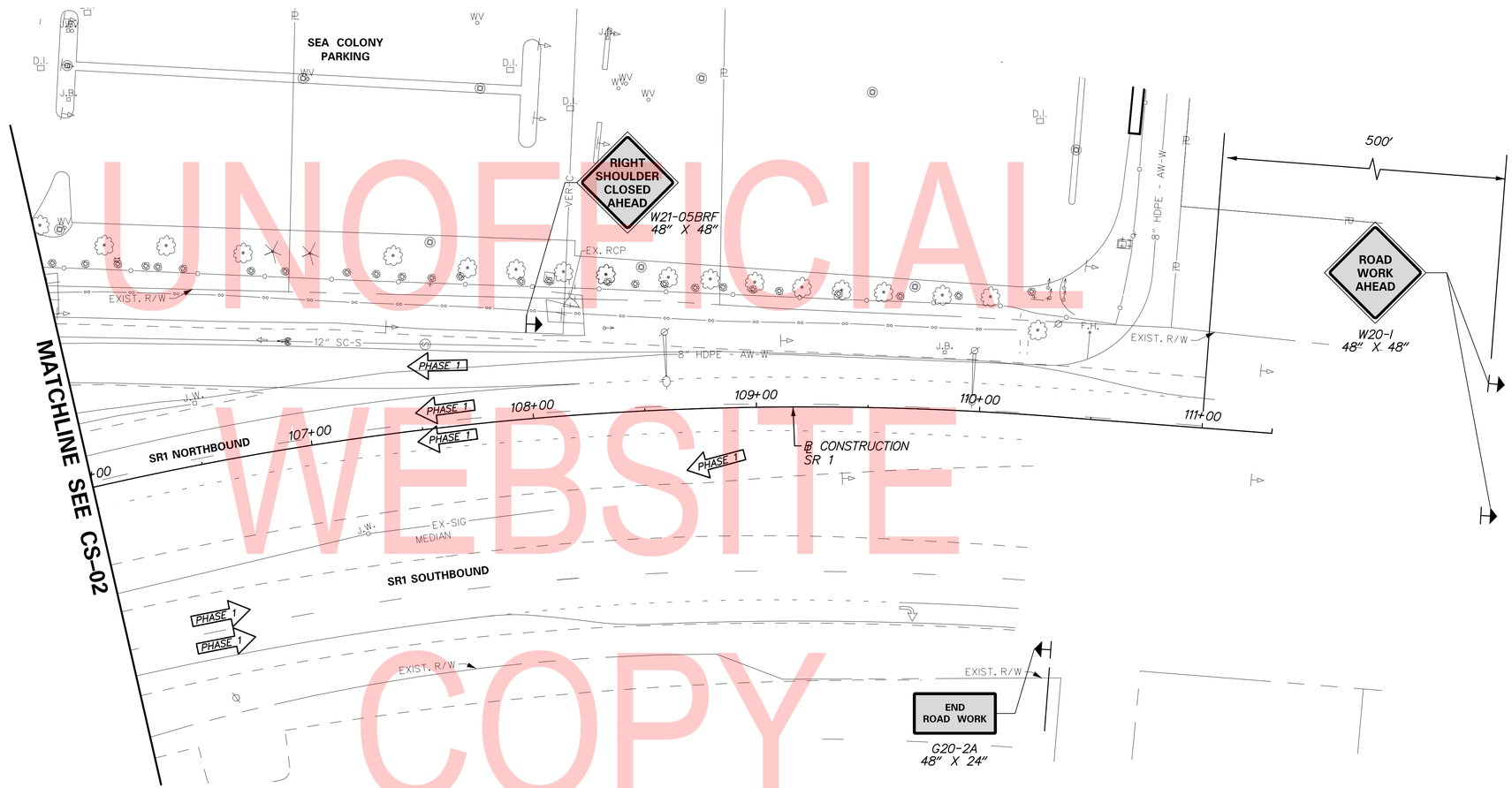
CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PREVIOUSLY CONSTRUCTED PAVEMENT
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



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ADDENDUMS / REVISIONS	

SCALE 0 30 60 90 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: BEB	
COUNTY	CHECKED BY: BAH	
SUSSEX		

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 1

CS-03

SECTION	SHEET NO.
RK&K	17

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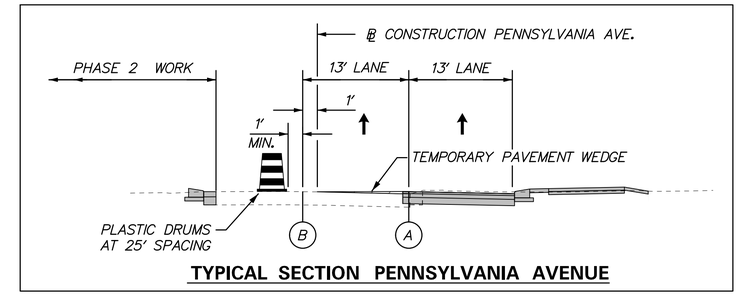
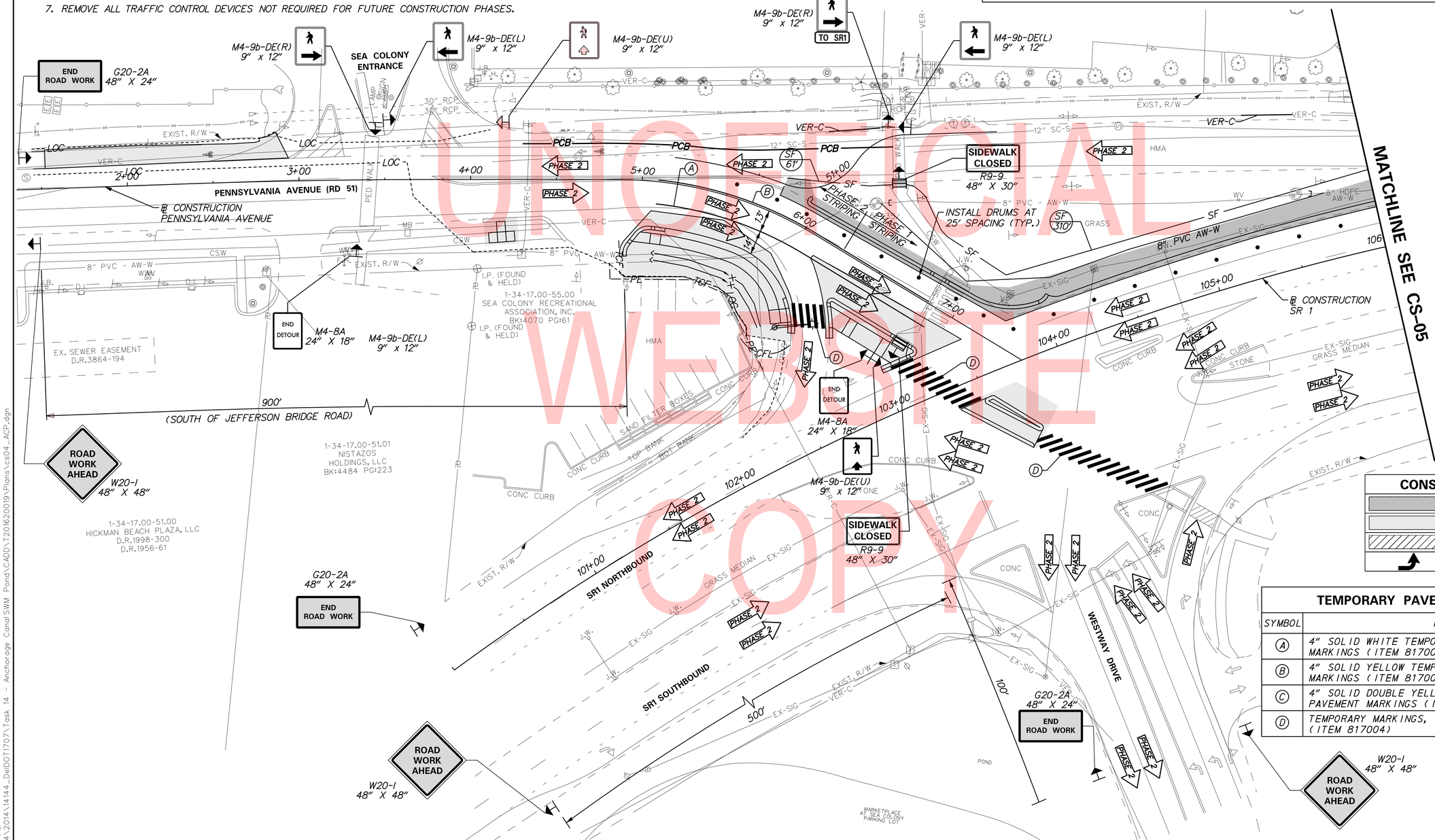
SEQUENCE OF CONSTRUCTION PHASE 2

1. INSTALL TEMPORARY PAINT MARKINGS ON PENNSYLVANIA AVENUE AS SHOWN ON PLAN USING TA-33. SHIFT SOUTHBOUND PENNSYLVANIA AVENUE TRAFFIC AS SHOWN ON PLAN AND CLOSE SHOULDER OF SR 1 NORTHBOUND STA. 103+70 TO STA. 107+00 USING TA-3. MAINTAIN NORTHBOUND SR 1 RIGHT TURN LANE (SPUR) TO PENNSYLVANIA AVENUE. INSTALL ALL TEMPORARY WARNING SIGNS. COORDINATE WITH TMC FOR SIGNAL TIMING ADJUSTMENT.
2. CLEAR AND GRUB PHASE 2 WORK AREA AND INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON PLANS.
3. SAWCUT AND REMOVE EXISTING CURB, SIDEWALK AND PAVEMENT ON SOUTH SIDE OF INTERSECTION AND ALONG SR 1 AS SHOWN ON PLANS. COORDINATE WITH ARTESIAN WATER TO RELOCATE WATER LINE AS SHOWN ON PLANS. COORDINATE WITH VERIZON ON THEIR RELOCATION IN ADVANCE OF PHASE 3 WORK.
4. ROUGH GRADE TO PROPOSED SUBGRADE WITHIN THE LIMITS OF PHASE 2 WORK. INSTALL PEDESTRIAN POLE FOUNDATION, CONDUIT AND JUNCTION WELLS. FINAL GRADE AND CONSTRUCT CURB AS SHOWN ON PLANS. PLACE BITUMINOUS CONCRETE PAVEMENT SECTION TO THE TOP OF B COURSE.
5. COORDINATE INSTALLATION OF PEDESTRIAN SIGNAL POLE AND SIGNAL MODIFICATIONS WITH DELDOT TRAFFIC.
6. STABILIZE AREA IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATIONS BEFORE PROCEEDING TO THE NEXT PHASE. REMOVE EROSION AND SEDIMENT CONTROL DEVICES AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH CONCURRENCE FROM DELDOT'S STORMWATER ENGINEER.
7. REMOVE ALL TRAFFIC CONTROL DEVICES NOT REQUIRED FOR FUTURE CONSTRUCTION PHASES.



TYPICAL SECTION PENNSYLVANIA AVENUE



CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	PREVIOUSLY CONSTRUCTED PAVEMENT
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

TEMPORARY PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
A	4" SOLID WHITE TEMPORARY PAINT PAVEMENT MARKINGS (ITEM 817003)	173 LF
B	4" SOLID YELLOW TEMPORARY PAINT PAVEMENT MARKINGS (ITEM 817003)	116 LF
C	4" SOLID DOUBLE YELLOW TEMPORARY PAINT PAVEMENT MARKINGS (ITEM 817003)	X,XXX LF
D	TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND (ITEM 817004)	915 SF

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ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: BEB	
COUNTY		
SUSSEX	CHECKED BY: BAH	

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 2

CS-04

SECTION RK&K

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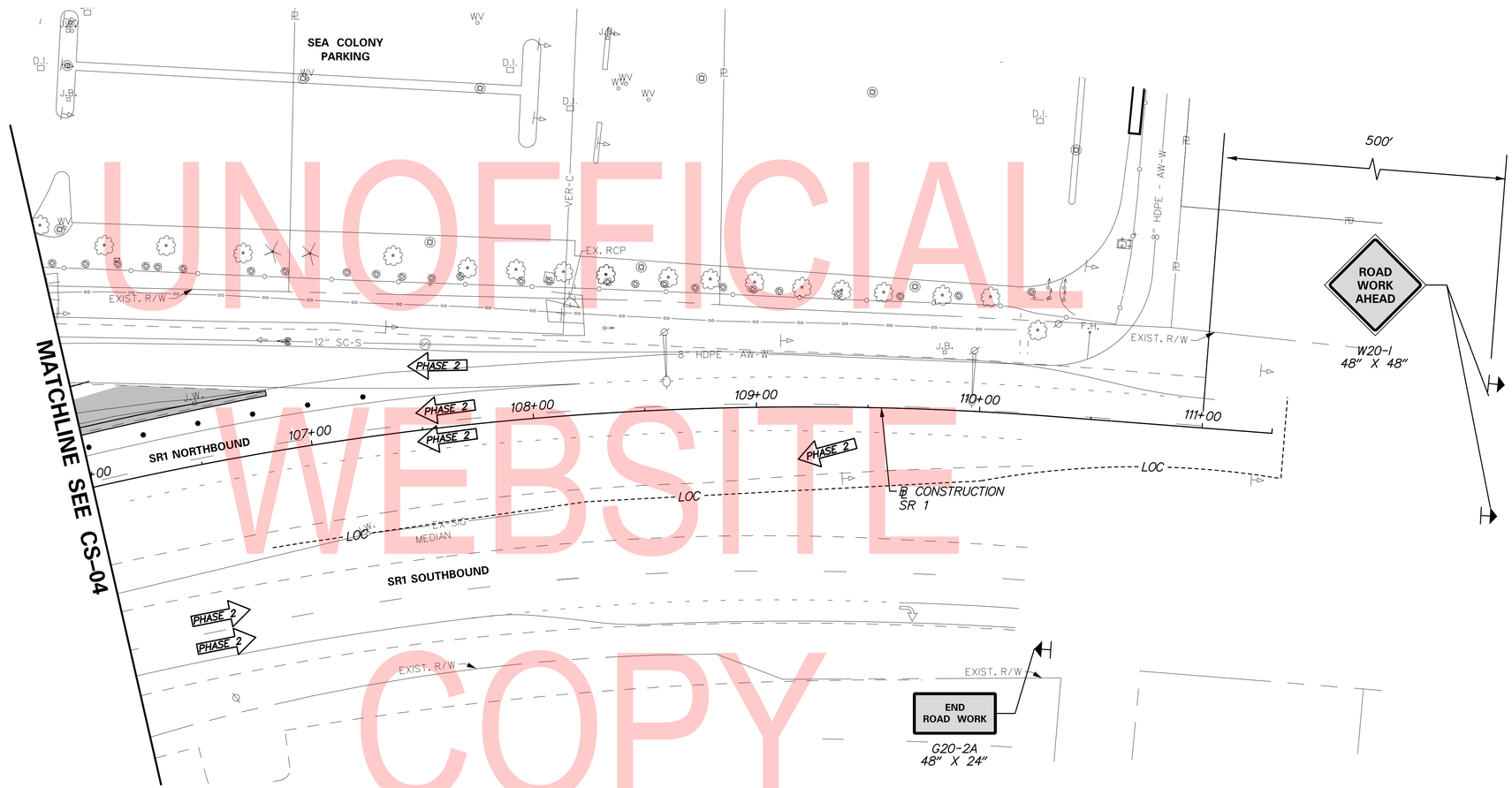
CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PREVIOUSLY CONSTRUCTED PAVEMENT
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



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ADDENDUMS / REVISIONS	

SCALE 0 30 60 90 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: BEB	
COUNTY		
SUSSEX	CHECKED BY: BAH	

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 2

CS-05

SECTION RK&K

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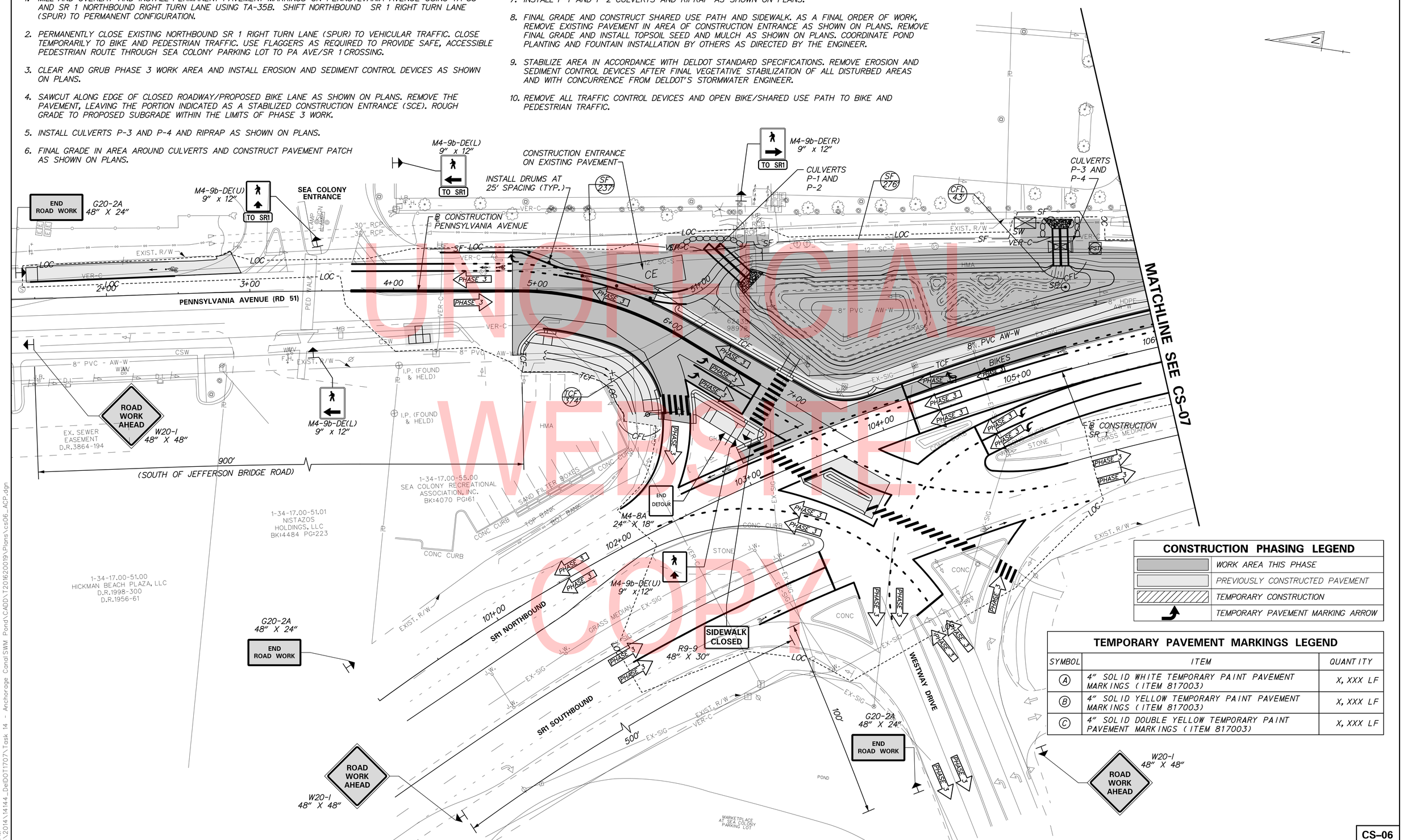
SEQUENCE OF CONSTRUCTION PHASE 3

1. MILL AND OVERLAY AND INSTALL PERMANENT PAVEMENT MARKINGS ON PENNSYLVANIA AVENUE USING TA-33 AND SR 1 NORTHBOUND RIGHT TURN LANE USING TA-35B. SHIFT NORTHBOUND SR 1 RIGHT TURN LANE (SPUR) TO PERMANENT CONFIGURATION.
2. PERMANENTLY CLOSE EXISTING NORTHBOUND SR 1 RIGHT TURN LANE (SPUR) TO VEHICULAR TRAFFIC. CLOSE TEMPORARILY TO BIKE AND PEDESTRIAN TRAFFIC. USE FLAGGERS AS REQUIRED TO PROVIDE SAFE, ACCESSIBLE PEDESTRIAN ROUTE THROUGH SEA COLONY PARKING LOT TO PA AVE/SR 1 CROSSING.
3. CLEAR AND GRUB PHASE 3 WORK AREA AND INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON PLANS.
4. SAWCUT ALONG EDGE OF CLOSED ROADWAY/PROPOSED BIKE LANE AS SHOWN ON PLANS. REMOVE THE PAVEMENT, LEAVING THE PORTION INDICATED AS A STABILIZED CONSTRUCTION ENTRANCE (SCE). ROUGH GRADE TO PROPOSED SUBGRADE WITHIN THE LIMITS OF PHASE 3 WORK.
5. INSTALL CULVERTS P-3 AND P-4 AND RIPRAP AS SHOWN ON PLANS.
6. FINAL GRADE IN AREA AROUND CULVERTS AND CONSTRUCT PAVEMENT PATCH AS SHOWN ON PLANS.
7. INSTALL P-1 AND P-2 CULVERTS AND RIPRAP AS SHOWN ON PLANS.
8. FINAL GRADE AND CONSTRUCT SHARED USE PATH AND SIDEWALK. AS A FINAL ORDER OF WORK, REMOVE EXISTING PAVEMENT IN AREA OF CONSTRUCTION ENTRANCE AS SHOWN ON PLANS. REMOVE FINAL GRADE AND INSTALL TOPSOIL SEED AND MULCH AS SHOWN ON PLANS. COORDINATE POND PLANTING AND FOUNTAIN INSTALLATION BY OTHERS AS DIRECTED BY THE ENGINEER.
9. STABILIZE AREA IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATIONS. REMOVE EROSION AND SEDIMENT CONTROL DEVICES AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH CONCURRENCE FROM DELDOT'S STORMWATER ENGINEER.
10. REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN BIKE/SHARED USE PATH TO BIKE AND PEDESTRIAN TRAFFIC.



CONSTRUCTION PHASING LEGEND

	WORK AREA THIS PHASE
	PREVIOUSLY CONSTRUCTED PAVEMENT
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW

TEMPORARY PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
A	4" SOLID WHITE TEMPORARY PAINT PAVEMENT MARKINGS (ITEM 817003)	X,XXX LF
B	4" SOLID YELLOW TEMPORARY PAINT PAVEMENT MARKINGS (ITEM 817003)	X,XXX LF
C	4" SOLID DOUBLE YELLOW TEMPORARY PAINT PAVEMENT MARKINGS (ITEM 817003)	X,XXX LF

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ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: BEB	
COUNTY		
SUSSEX	CHECKED BY: BAH	

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

CS-06

SECTION RK&K

SHEET NO. 20

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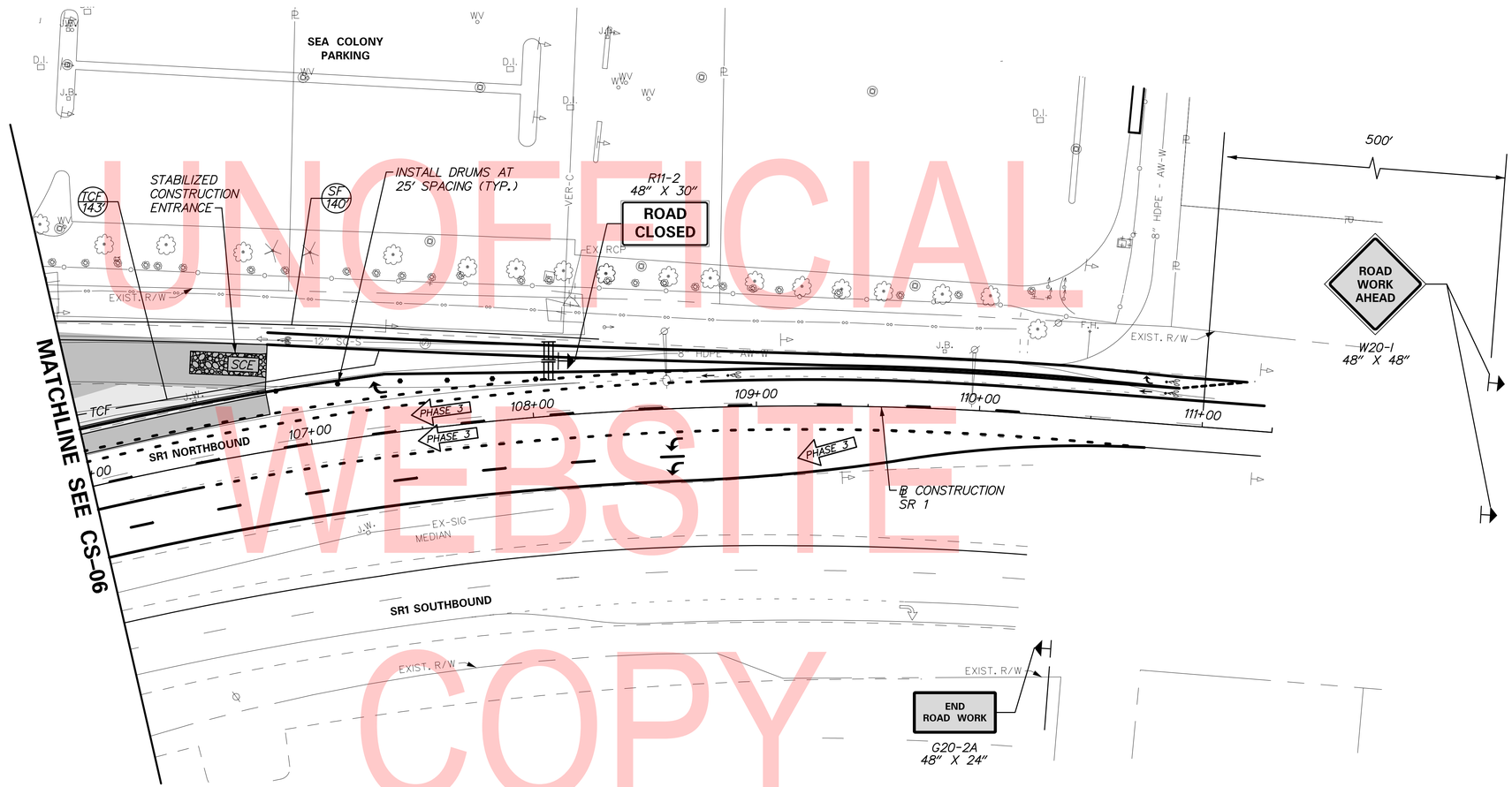
CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PREVIOUSLY CONSTRUCTED PAVEMENT
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW



UNOFFICIAL WEBSITE COPY

ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS	CONTRACT T201620019	BRIDGE NO. N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 3	CS-07
			COUNTY SUSSEX	DESIGNED BY: BEB		SECTION RK&K
				CHECKED BY: BAH		SHEET NO. 21

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PORTABLE CHANGEABLE MESSAGE SIGNS

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

PCMS-1

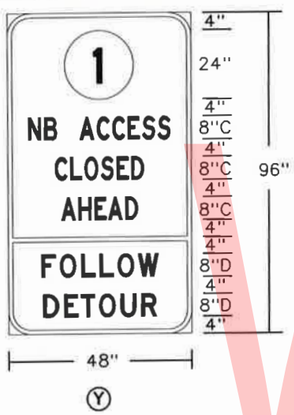
SR 1 NB ACCESS TO CLOSE	STARTING XXXXXXXX XXXXXXXX

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-1

SR 1 NB ACCESS CLOSED	FOLLOW DETOUR

SPECIAL SIGNS



M4-9 DE1
30" x 24"

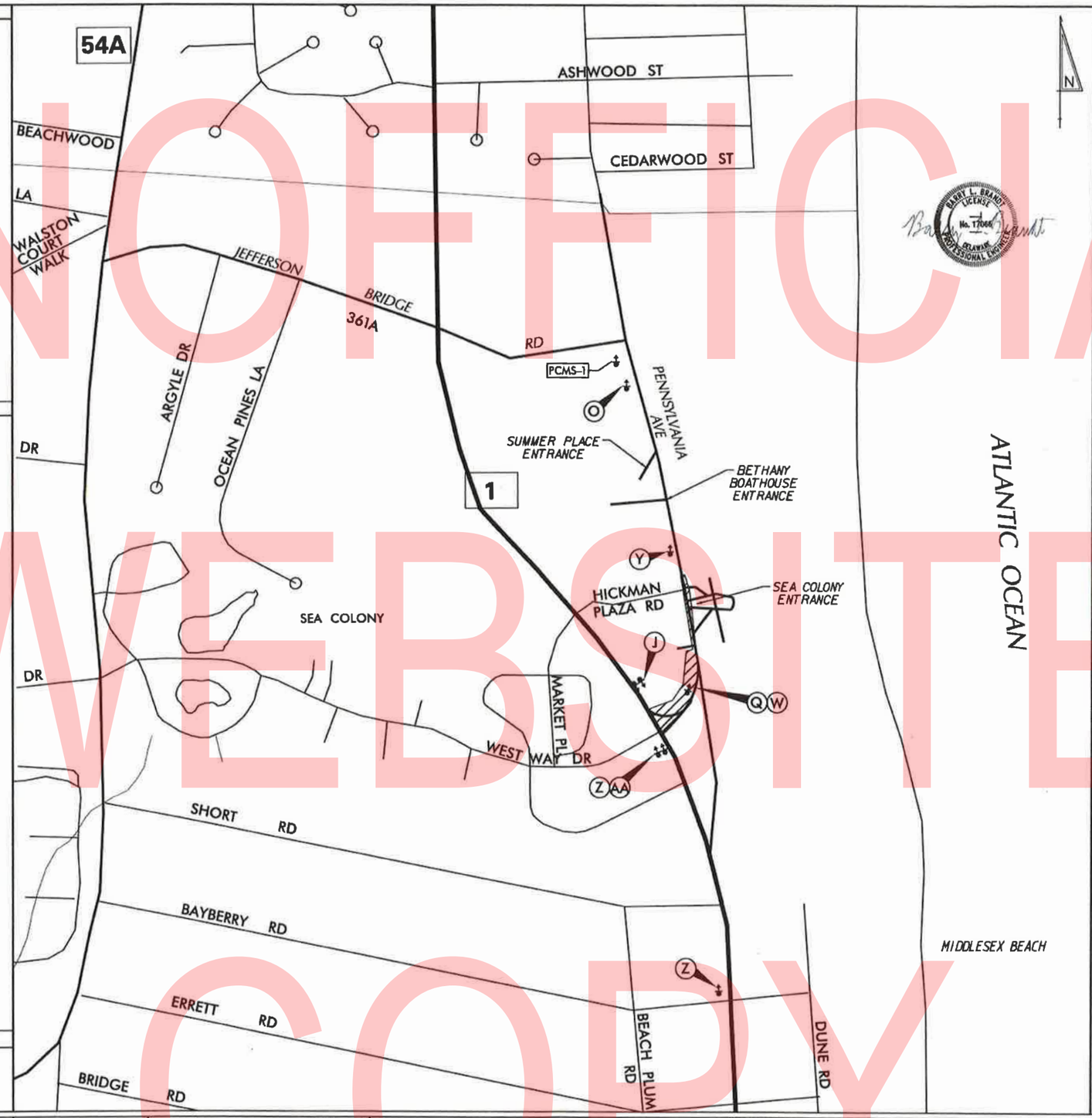
R3-17aP
24" x 8"

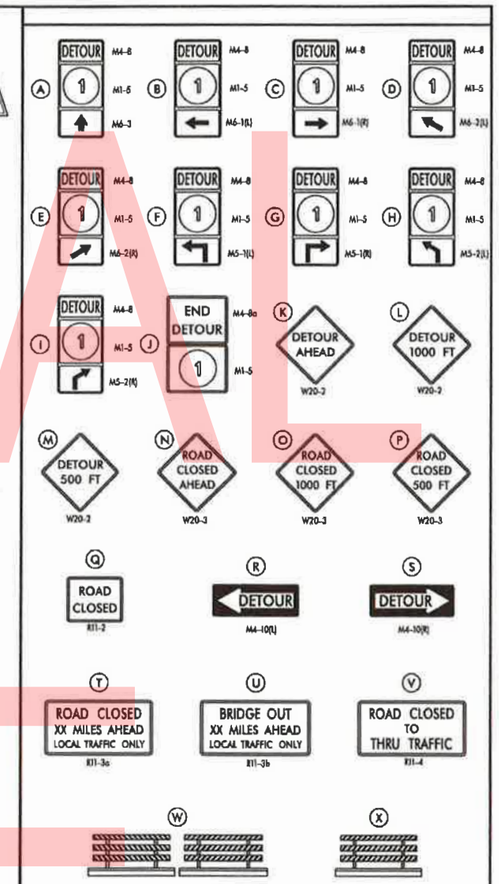
SIGN PANELS:
RETROREFLECTIVE FLUORESCENT PRISMATIC ORANGE BACKGROUND WITH BLACK LEGEND

ROUTE SHIELDS:
WHITE BACKGROUND WITH BLACK LEGEND

SPECIAL NOTES

1. TRAFFIC CONTROL SIGNAGE PLACED ON HIGHWAYS CONTAINING MORE THAN ONE LANE IN ONE DIRECTION SHALL HAVE SIGNS MOUNTED BEHIND THE RIGHT CURB AND BEHIND THE LEFT CURB.





GENERAL NOTES

1. ALL DETOUR SIGNING, INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE WITH "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.)
2. THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD PART 6) FOR BARRICADES AND SIGNS (AS PER LATEST REVISION.)
3. DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
4. SIZES OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.) SIZE OF SIGN SHALL BE BASED ON TYPE OF ROADWAY ON WHICH THE SIGN IS INSTALLED.
5. THE COLORS, DIMENSIONS, AND CHARACTERISTICS OF ALL INTERSTATE, U.S ROUTE, AND STATE ROUTE SHIELD SIGNS SHALL BE IN ACCORDANCE WITH SECTION 20.11 OF "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.)
6. SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
7. FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD) WILL PREVAIL.
8. SIGNS "N" THROUGH "Q" AND "T" AND "V", THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
9. WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
10. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
11. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

BARRY L. BRANDT LICENSE No. 17066 DELAWARE PROFESSIONAL ENGINEER

RECOMMENDED _____ DATE: _____

RECOMMENDED Lei Xu DATE: 3/6/2019

RECOMMENDED _____ DATE: _____

APPROVED CHIEF SAFETY OFFICER _____ DATE: _____

APPROVED TRAFFIC ENGINEER _____ DATE: 3-6-19

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

NOT TO SCALE

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

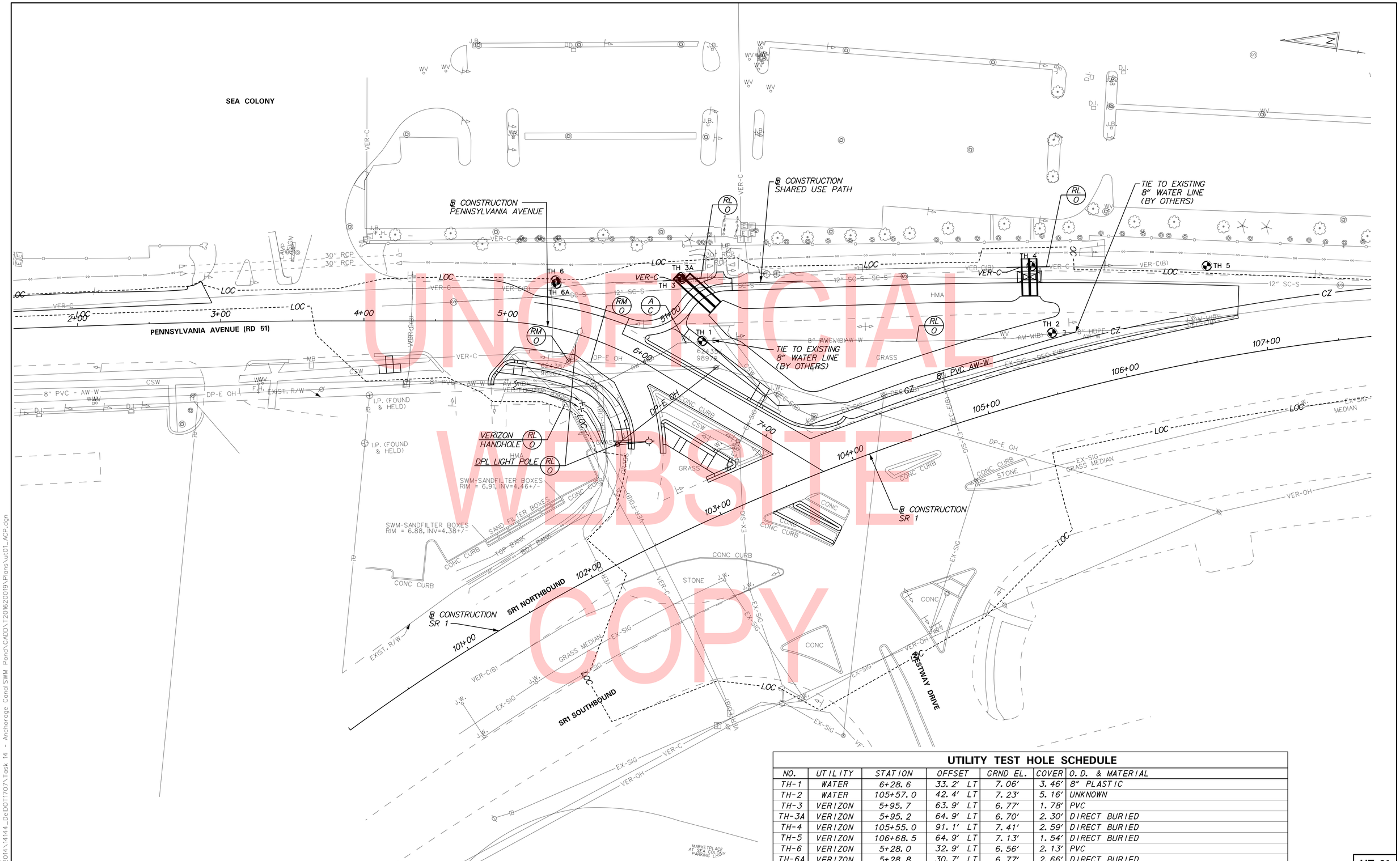
CONTRACT	PERMIT NO.	X
T201620019	DESIGNED BY: SJS	
COUNTY		
SUSSEX	CHECKED BY: BAH	

VEHICULAR DETOUR PLAN
PENNSYLVANIA AVE
WESTBOUND TO
SR1 NORTHBOUND

SHEET NO. 22
TOTAL SHTS. 28

2/12/2019 2:31:58 PM
\\BACSRV01\V2014\2014\14144_DELDOT\707\TASK 14 - ANCHORAGE CANAL SWM POND\CADD\T201620019\PLANS\DP01_ACP.DGN

UNOFFICIAL WEBSITE COPY



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UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-1	WATER	6+28.6	33.2' LT	7.06'	3.46'	8" PLASTIC
TH-2	WATER	105+57.0	42.4' LT	7.23'	5.16'	UNKNOWN
TH-3	VERIZON	5+95.7	63.9' LT	6.77'	1.78'	PVC
TH-3A	VERIZON	5+95.2	64.9' LT	6.70'	2.30'	DIRECT BURIED
TH-4	VERIZON	105+55.0	91.1' LT	7.41'	2.59'	DIRECT BURIED
TH-5	VERIZON	106+68.5	64.9' LT	7.13'	1.54'	DIRECT BURIED
TH-6	VERIZON	5+28.0	32.9' LT	6.56'	2.13'	PVC
TH-6A	VERIZON	5+28.8	30.7' LT	6.77'	2.66'	DIRECT BURIED

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: SJS	
COUNTY		
SUSSEX	CHECKED BY: BAH	

UTILITY RELOCATION PLAN

UT-01

SECTION: RK&K

SHEET NO. 23

3/21/2019 3:34 PM
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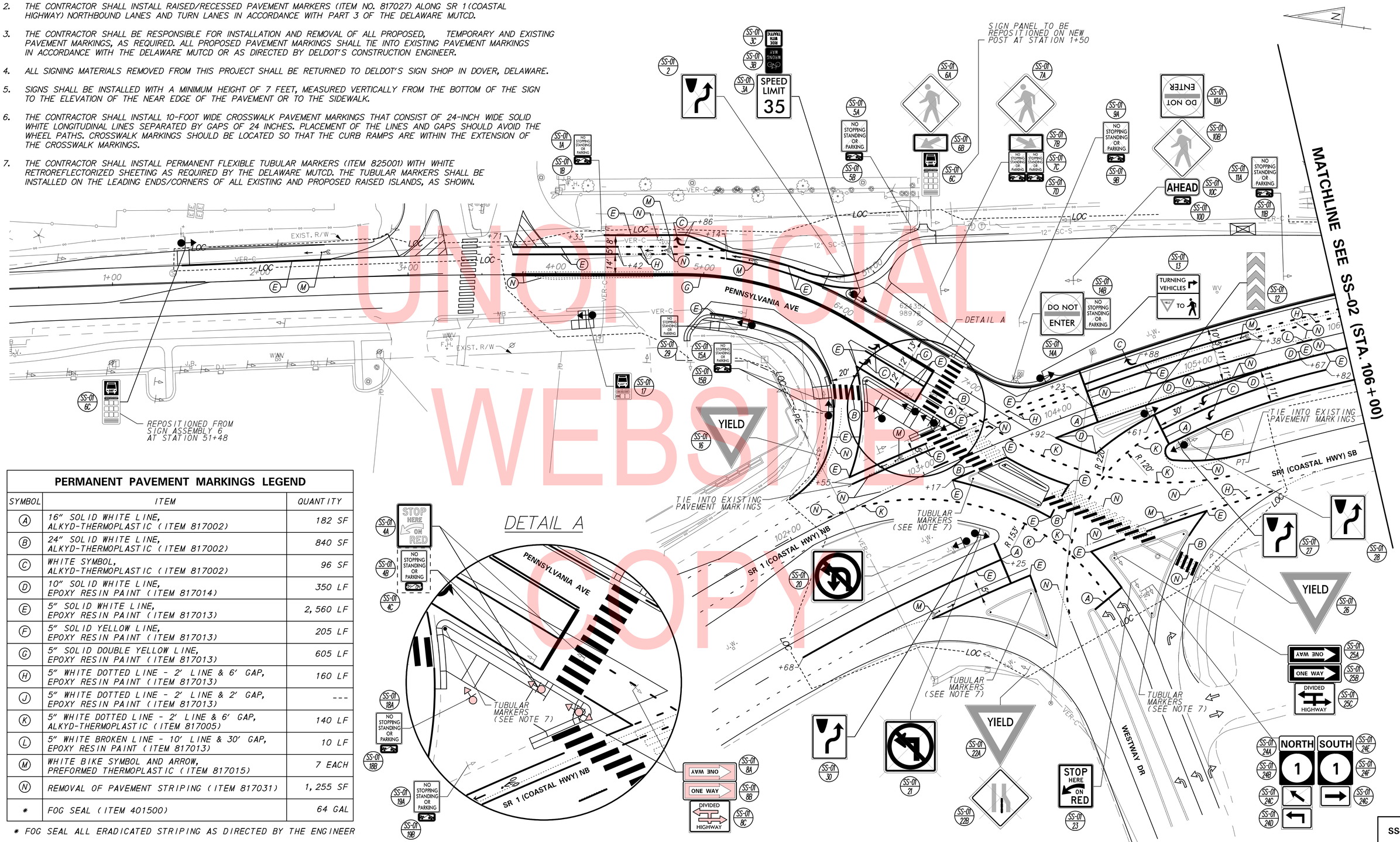
NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING RAISED/RECESSED PAVEMENT MARKERS (ITEM NO. 817030) ALONG SR 1 (COASTAL HIGHWAY) NORTHBOUND LANES WITHIN THE PROJECT LIMITS.
2. THE CONTRACTOR SHALL INSTALL RAISED/RECESSED PAVEMENT MARKERS (ITEM NO. 817027) ALONG SR 1 (COASTAL HIGHWAY) NORTHBOUND LANES AND TURN LANES IN ACCORDANCE WITH PART 3 OF THE DELAWARE MUTCD.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND REMOVAL OF ALL PROPOSED, TEMPORARY AND EXISTING PAVEMENT MARKINGS, AS REQUIRED. ALL PROPOSED PAVEMENT MARKINGS SHALL TIE INTO EXISTING PAVEMENT MARKINGS IN ACCORDANCE WITH THE DELAWARE MUTCD OR AS DIRECTED BY DELDOT'S CONSTRUCTION ENGINEER.
4. ALL SIGNING MATERIALS REMOVED FROM THIS PROJECT SHALL BE RETURNED TO DELDOT'S SIGN SHOP IN DOVER, DELAWARE.
5. SIGNS SHALL BE INSTALLED WITH A MINIMUM HEIGHT OF 7 FEET, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF THE PAVEMENT OR TO THE SIDEWALK.
6. THE CONTRACTOR SHALL INSTALL 10-FOOT WIDE CROSSWALK PAVEMENT MARKINGS THAT CONSIST OF 24-INCH WIDE SOLID WHITE LONGITUDINAL LINES SEPARATED BY GAPS OF 24 INCHES. PLACEMENT OF THE LINES AND GAPS SHOULD AVOID THE WHEEL PATHS. CROSSWALK MARKINGS SHOULD BE LOCATED SO THAT THE CURB RAMPS ARE WITHIN THE EXTENSION OF THE CROSSWALK MARKINGS.
7. THE CONTRACTOR SHALL INSTALL PERMANENT FLEXIBLE TUBULAR MARKERS (ITEM 825001) WITH WHITE RETROREFLECTORIZED SHEETING AS REQUIRED BY THE DELAWARE MUTCD. THE TUBULAR MARKERS SHALL BE INSTALLED ON THE LEADING ENDS/CORNERS OF ALL EXISTING AND PROPOSED RAISED ISLANDS, AS SHOWN.



UNOFFICIAL WEBSITE COPY

PERMANENT PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
A	16" SOLID WHITE LINE, ALKYD-THERMOPLASTIC (ITEM 817002)	182 SF
B	24" SOLID WHITE LINE, ALKYD-THERMOPLASTIC (ITEM 817002)	840 SF
C	WHITE SYMBOL, ALKYD-THERMOPLASTIC (ITEM 817002)	96 SF
D	10" SOLID WHITE LINE, EPOXY RESIN PAINT (ITEM 817014)	350 LF
E	5" SOLID WHITE LINE, EPOXY RESIN PAINT (ITEM 817013)	2,560 LF
F	5" SOLID YELLOW LINE, EPOXY RESIN PAINT (ITEM 817013)	205 LF
G	5" SOLID DOUBLE YELLOW LINE, EPOXY RESIN PAINT (ITEM 817013)	605 LF
H	5" WHITE DOTTED LINE - 2' LINE & 6' GAP, EPOXY RESIN PAINT (ITEM 817013)	160 LF
J	5" WHITE DOTTED LINE - 2' LINE & 2' GAP, EPOXY RESIN PAINT (ITEM 817013)	---
K	5" WHITE DOTTED LINE - 2' LINE & 6' GAP, ALKYD-THERMOPLASTIC (ITEM 817005)	140 LF
L	5" WHITE BROKEN LINE - 10' LINE & 30' GAP, EPOXY RESIN PAINT (ITEM 817013)	10 LF
M	WHITE BIKE SYMBOL AND ARROW, PREFORMED THERMOPLASTIC (ITEM 817015)	7 EACH
N	REMOVAL OF PAVEMENT STRIPING (ITEM 817031)	1,255 SF
*	FOG SEAL (ITEM 401500)	64 GAL

* FOG SEAL ALL ERADICATED STRIPING AS DIRECTED BY THE ENGINEER

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: SH,JVB	
COUNTY		
SUSSEX	CHECKED BY: BAH	

SIGNING & STRIPING PLAN

SS-01

SECTION RK&K

SHEET NO. 24

3/21/2019 3:35 PM
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NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING RAISED/RECESSED PAVEMENT MARKERS (ITEM NO. 817030) ALONG SR 1 (COASTAL HIGHWAY) NORTHBOUND LANES WITHIN THE PROJECT LIMITS.

2. THE CONTRACTOR SHALL INSTALL RAISED/RECESSED PAVEMENT MARKERS (ITEM NO. 817027) ALONG SR 1 (COASTAL HIGHWAY) NORTHBOUND LANES AND TURN LANES IN ACCORDANCE WITH PART 3 OF THE DELAWARE MUTCD.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND REMOVAL OF ALL PROPOSED, TEMPORARY AND EXISTING PAVEMENT MARKINGS, AS REQUIRED. ALL PROPOSED PAVEMENT MARKINGS SHALL TIE INTO EXISTING PAVEMENT MARKINGS IN ACCORDANCE WITH THE DELAWARE MUTCD OR AS DIRECTED BY DELDOT'S CONSTRUCTION ENGINEER.

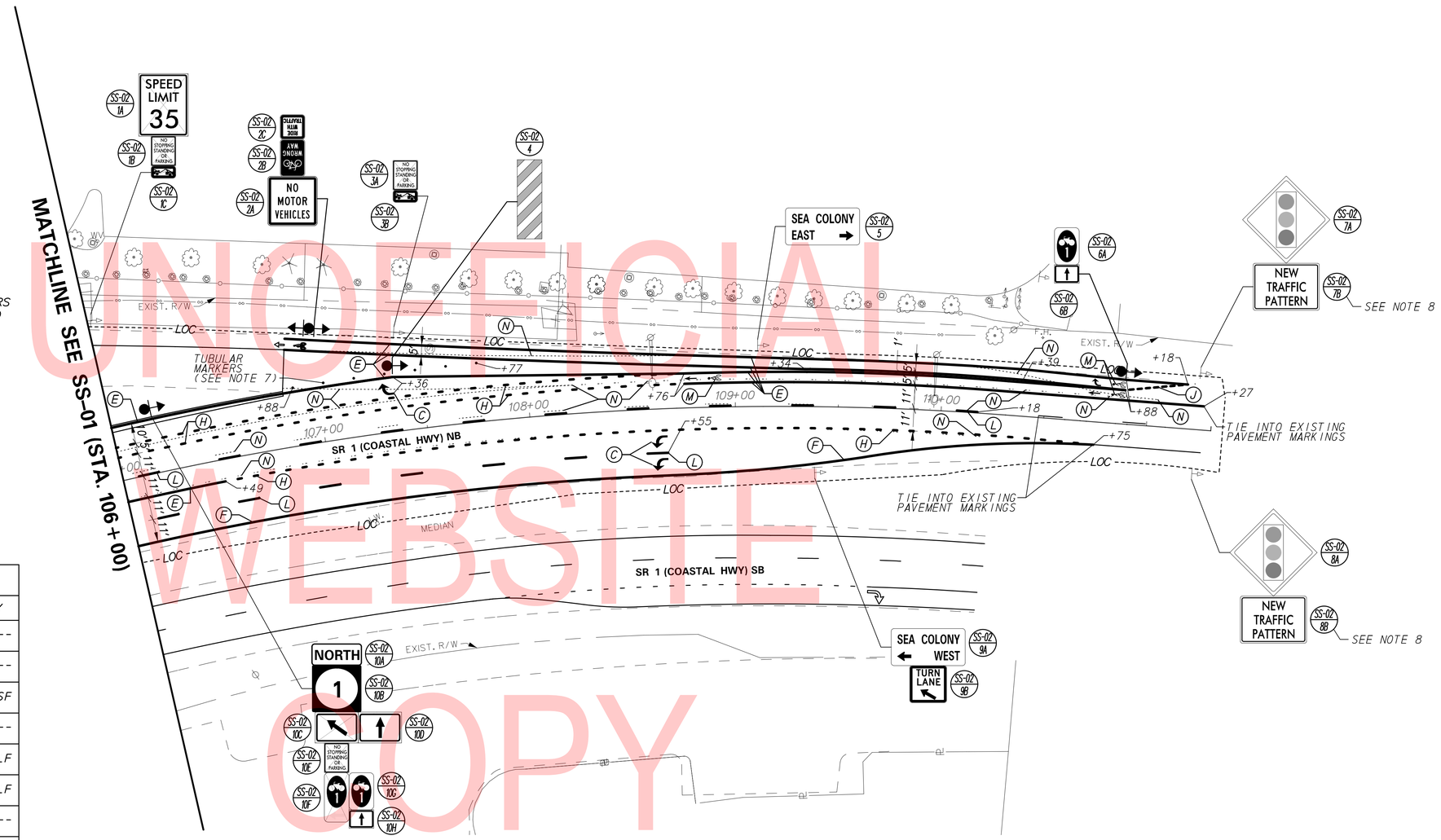
4. ALL SIGNING MATERIALS REMOVED FROM THIS PROJECT SHALL BE RETURNED TO DELDOT'S SIGN SHOP IN DOVER, DELAWARE.

5. SIGNS SHALL BE INSTALLED WITH A MINIMUM HEIGHT OF 7 FEET, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF THE PAVEMENT OR TO THE SIDEWALK.

6. THE CONTRACTOR SHALL INSTALL 14-FOOT WIDE CROSSWALK PAVEMENT MARKINGS THAT CONSIST OF 24-INCH WIDE SOLID WHITE LONGITUDINAL LINES SEPARATED BY GAPS OF 24 INCHES. PLACEMENT OF THE LINES AND GAPS SHOULD AVOID THE WHEEL PATHS. CROSSWALK MARKINGS SHOULD BE LOCATED SO THAT THE CURB RAMPS ARE WITHIN THE EXTENSION OF THE CROSSWALK MARKINGS.

7. THE CONTRACTOR SHALL INSTALL PERMANENT FLEXIBLE TUBULAR MARKERS (ITEM 825001) WITH WHITE RETROREFLECTORIZED SHEETING AS REQUIRED BY THE DELAWARE MUTCD. THE MARKERS SHALL BE INSTALLED TO THE LEFT WITH A 28.5 FEET OFFSET THE BASE LINE OF CONSTRUCTION AT 15 FEET INTERVALS, AS SHOWN.

8. DELDOT FORCES SHALL REMOVE THE 'NEW TRAFFIC PATTERN' PLAQUE (SIGNS 7B AND 8B) NO LATER THAN 6 MONTHS AFTER INSTALLATION.



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PERMANENT PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
A	16" SOLID WHITE LINE, ALKYD-THERMOPLASTIC (ITEM 817002)	---
B	24" SOLID WHITE LINE, ALKYD-THERMOPLASTIC (ITEM 817002)	---
C	WHITE SYMBOL, ALKYD-THERMOPLASTIC (ITEM 817002)	48 SF
D	10" SOLID WHITE LINE, EPOXY RESIN PAINT (ITEM 817014)	---
E	5" SOLID WHITE LINE, EPOXY RESIN PAINT (ITEM 817013)	1,650 LF
F	5" SOLID YELLOW LINE, EPOXY RESIN PAINT (ITEM 817013)	470 LF
G	5" SOLID DOUBLE YELLOW LINE, EPOXY RESIN PAINT (ITEM 817013)	---
H	5" WHITE DOTTED LINE - 2' LINE & 6' GAP, EPOXY RESIN PAINT (ITEM 817013)	250 LF
J	5" WHITE DOTTED LINE - 2' LINE & 2' GAP, EPOXY RESIN PAINT (ITEM 817013)	14 LF
K	5" WHITE DOTTED LINE - 2' LINE & 6' GAP, ALKYD-THERMOPLASTIC (ITEM 817005)	---
L	5" WHITE BROKEN LINE - 10' LINE & 30' GAP, EPOXY RESIN PAINT (ITEM 817013)	200 LF
M	WHITE BIKE SYMBOL AND ARROW, PREFORMED THERMOPLASTIC (ITEM 817015)	3 EACH
N	REMOVAL OF PAVEMENT STRIPING (ITEM 817031)	500 SF
*	FOG SEAL (ITEM 401500)	36 GAL

* FOG SEAL ALL ERADICATED STRIPING AS DIRECTED BY THE ENGINEER

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201620019	DESIGNED BY: SH,JVB	
COUNTY		
SUSSEX	CHECKED BY: BAH	

SIGNING & STRIPING PLAN

SS-02

SECTION RK&K

SHEET NO. 25

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PERMANENT SIGN SCHEDULE

SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	SIGN AREA (SF)	ITEM 819018 SINGLE POST (EACH)			ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF)			POST INSTALLATION TYPE	Code X11 12' Post (W/ Basepost)	ITEM 819016 4" HOLE, 0-6" (EACH)	ITEM 819017 4" HOLE, >6" (EACH)	REMARKS
								SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL					
SS-01	1A	R7-4-DE(12)	1	NO STOPPING, STANDING, OR PARKING - 12x18	12"	18"		REMAIN										
SS-01	1B	R7-201P_B	1	TOW AWAY ZONE (plaque - black)	12"	6"		REMAIN										
SS-01	2	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	24"	30"		REMOVE	1									
SS-01	3A	R2-1-35(24)	1	SPEED LIMIT (35 MPH - 24x30)	24"	30"	5.0	NEW		1				SOIL	1			
SS-01	3B	R5-1b	1	BICYCLES WRONG WAY	12"	18"	1.5	ADD TO ASSEMBLY		1					1			
SS-01	3C	R9-3cP	1	RIDE WITH TRAFFIC (plaque)	12"	12"	1.0	ADD TO ASSEMBLY		1					1			
SS-01	4A	R10-6a(24)	1	STOP HERE ON RED (Curved Arrow) - 24x30	24"	30"	5.0	REPOSITION & RENEW	1	1				CONCRETE	1	1		REPOSITION ON NEW POST
SS-01	4B	R7-4-DE(18)	1	NO STOPPING, STANDING, OR PARKING - 18x24	18"	24"	3.0	REPOSITION & RENEW	1	1								
SS-01	4C	R7-201P_B	1	TOW AWAY ZONE (plaque - black)	12"	6"	0.5	REPOSITION & RENEW	1	1								
SS-01	5A	R7-4-DE(18)	1	NO STOPPING, STANDING, OR PARKING - 18x24	18"	24"		REMOVE	1									
SS-01	5B	R7-201P_B	1	TOW AWAY ZONE (plaque - black)	12"	6"		REMOVE	1									
SS-01	6A	W11-2(30)	1	PEDESTRIAN (Symbol) - 30x30	30"	30"		REMOVE	1									
SS-01	6B	W16-7P_L(24)	1	LEFT DOWNWARD DIAGONAL ARROW (plaque) - 24x12	24"	18"		REMOVE	1									
SS-01	6C	D4-3-DE	1	BUS STOP (DART)	12"	36"	3.0	REPOSITION & RENEW	1	1				SOIL	1			REPOSITION ON NEW POST,
SS-01	7A	W11-2(30)	1	PEDESTRIAN (Symbol) - 30x30	30"	30"		REMOVE	1									
SS-01	7B	W16-7P_R(24)	1	RIGHT DOWNWARD DIAGONAL ARROW (plaque) - 24x12	24"	12"		REMOVE	1									
SS-01	7C	R7-4-DE(12)	2	NO STOPPING, STANDING, OR PARKING - 12x18	12"	18"		REMOVE	2									
SS-01	7D	R7-201P_B	2	TOW AWAY ZONE (plaque - black)	12"	6"		REMOVE	2									
SS-01	8A	R6-1_L(36)	1	ONE WAY (ENCLOSED IN LEFT ARROW) - 36x12	36"	12"	3.0	REPOSITION & RENEW	1	1				CONCRETE	1	1		REPOSITION ON NEW POST
SS-01	8B	R6-1_R(36)	1	ONE WAY (ENCLOSED IN RIGHT ARROW) - 36x12	36"	12"	3.0	REPOSITION & RENEW	1	1								
SS-01	8C	R6-3a(30)	1	DIVIDED HIGHWAY CROSSING (T - Intersection) - 30x24	30"	24"	5.0	REPOSITION & RENEW	1	1								
SS-01	9A	R7-4-DE(18)	1	NO STOPPING, STANDING, OR PARKING - 18x24	18"	24"		REMOVE	1									
SS-01	9B	R7-201P_B	1	TOW AWAY ZONE (plaque - black)	12"	6"		REMOVE	1									
SS-01	10A	R5-1(30)	1	DO NOT ENTER - 30x30	30"	30"		REMOVE	1									
SS-01	10B	W11-2(30)	1	PEDESTRIAN (Symbol) - 30x30	30"	30"		REMOVE	1									
SS-01	10C	W16-9P(24)	1	AHEAD (plaque) - 24x12	24"	12"		REMOVE	1									
SS-01	10D	R7-201P_B	1	TOW AWAY ZONE (plaque - black)	12"	6"		REMOVE	1									
SS-01	11A	R7-4-DE(18)	1	NO STOPPING, STANDING, OR PARKING - 18x24	18"	24"		REMOVE	1									
SS-01	11B	R7-201P_B	1	TOW AWAY ZONE (plaque - black)	12"	6"		REMOVE	1									
SS-01	12	OM3-C	1	TYPE 3 OBJECT MARKER	12"	36"	3.0	NEW		1				CONCRETE	1	1		INSTALL WITH A MINIMUM HEIGHT OF 4 FEET, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF PAVEMENT
SS-01	13	R10-15	1	TURNING VEHICLES YIELD TO PEDS	30"	30"	6.3	NEW		1				SOIL	1			
SS-01	14A	R5-1(30)	1	DO NOT ENTER - 30x30	30"	30"		REMOVE	1									
SS-01	14B	R7-4-DE(18)	1	NO STOPPING, STANDING, OR PARKING - 18x24	18"	24"		REMOVE	1									
SS-01	15A	R7-4-DE(12)	1	NO STOPPING, STANDING, OR PARKING - 12x18	12"	18"	1.5	REPOSITION & RENEW	1	1				SOIL	1			REPOSITION ON NEW POST
SS-01	15B	R7-201P_B	1	TOW AWAY ZONE (plaque - black)	12"	6"	0.5	REPOSITION & RENEW	1	1								
SS-01	16	R1-2(48)	1	YIELD	48"	48"	8.0	RENEW	1	1								
SS-01	17	D4-3-DE	1	BUS STOP (DART)	12"	18"	1.5	RENEW	1	1				SOIL	1			"208" RENEW SIGN ON NEW POST
SS-01	18A	R7-4-DE(18)	1	NO STOPPING, STANDING, OR PARKING - 18x24	18"	24"	3.0	RENEW	1	1				SOIL	1			RENEW SIGNS ON NEW POST
SS-01	18B	R7-201P_B	1	TOW AWAY ZONE (plaque - black)	12"	6"	0.5	RENEW	1	1								
SS-01	19A	R7-4-DE(18)	1	NO STOPPING, STANDING, OR PARKING - 18x24	18"	24"		REMAIN										
SS-01	19B	R7-201P_B	1	TOW AWAY ZONE (plaque - black)	12"	6"		REMAIN										
				PAGE TOTALS			54		34	18		0	0		11	3	0	

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PERMANENT SIGN SCHEDULE (CONT'D)

SHEET NO.	PLAN IDENTIFIER	CODE	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	SIGN AREA (SF)	ITEM 819018 SINGLE POST (EACH)			ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF)			POST INSTALLATION TYPE	Code X11 12' Post (W/ Basepost)	ITEM 819016 4" HOLE, 0-6" (EACH)	ITEM 819017 4" HOLE, >6" (EACH)	REMARKS
								SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL					
SS-01	20	R3-18(36)	1	COMBINATION U-TURN AND LEFT TURN PROHIBITION (Symbol) - 36x36	36"	36"	9.0	NEW		1				SOIL	1			
SS-01	21	R3-2(24)	1	LEFT TURN PROHIBITION (Symbol) - 24x24	24"	24"		REMOVE	1									
SS-01	22A	R1-2(48)	1	YIELD	48"	48"	8.0	RENEW	1	1								
SS-01	22B	W4-2_R(30)	1	LANE ENDS (Right) - 30x30	30"	30"		REMOVE	1									
SS-01	23	R10-6a(24)	1	STOP HERE ON RED (Curved Arrow) - 24x30	24"	30"		REMAIN										
SS-01	24A	M3-1(24)	1	CARDINAL DIRECTION - NORTH - 24x12	24"	12"		REMAIN										
SS-01	24B	M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	24"	24"		REMAIN										
SS-01	24C	M6-2_L(21)	1	DIRECTIONAL ARROW (Left - upward 45) - 21x15	21"	15"		REMOVE	1									
SS-01	24D	M5-1_L	1	ADVANCE TURN ARROW (Left - 90)	21"	15"	2.2	ADD TO ASSEMBLY		1								
SS-01	24E	M3-3(24)	1	CARDINAL DIRECTION - SOUTH - 24x12	24"	12"		REMAIN										
SS-01	24F	M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	24"	24"		REMAIN										
SS-01	24G	M6-1_R(21)	1	DIRECTIONAL ARROW (Right) - 21x15	21"	15"		REMAIN										
SS-01	25A	R6-1_L(36)	1	ONE WAY (ENCLOSED IN LEFT ARROW) - 36x12	36"	12"		REMAIN										
SS-01	25B	R6-1_R(36)	1	ONE WAY (ENCLOSED IN RIGHT ARROW) - 36x12	36"	12"		REMAIN										
SS-01	25C	R6-3a(30)	1	DIVIDED HIGHWAY CROSSING (T - Intersection) - 30x24	30"	24"		REMAIN										
SS-01	26	R1-2(48)	1	YIELD	48"	48"	8.0	RENEW	1	1								
SS-01	27	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	24"	30"	5.0	NEW		1				CONCRETE	1	1		
SS-01	28	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	24"	30"		REMOVE	1									
SS-01	29	R7-4-DE(12)	1	NO STOPPING, STANDING, OR PARKING - 12x18	12"	18"	1.5	REPOSITION & RENEW	1	1				SOIL	1			REPOSITION ON NEW POST
SS-01	30	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	24"	30"	5.0	NEW		1				CONCRETE	1	1		
SS-02	1A	R2-1-35(24)	1	SPEED LIMIT (35 MPH - 24x30)	24"	30"		REMOVE	1									
SS-02	1B	R7-4-DE(12)	1	NO STOPPING, STANDING, OR PARKING - 12x18	12"	18"		REMOVE	1									
SS-02	1C	R7-201P_B	1	TOW AWAY ZONE (plaque - black)	12"	6"		REMOVE	1									
SS-02	2A	R5-3	1	NO MOTOR VEHICLES	24"	24"	4.0	NEW		1				SOIL	1			
SS-02	2B	R5-1b	1	BICYCLES WRONG WAY	12"	18"	1.5	ADD TO ASSEMBLY		1								
SS-02	2C	R9-3cP	1	RIDE WITH TRAFFIC (plaque)	12"	12"	1.0	ADD TO ASSEMBLY		1								
SS-02	3A	R7-4-DE(12)	1	NO STOPPING, STANDING, OR PARKING - 12x18	12"	18"		REMOVE	1									
SS-02	3B	R7-201P_B	1	TOW AWAY ZONE (plaque - black)	12"	6"		REMOVE	1									
SS-02	4	OM3-L	1	TYPE 3 OBJECT MARKER	12"	36"	3.0	NEW		1				SOIL	1			INSTALL WITH A MINIMUM HEIGHT OF 4 FEET, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF PAVEMENT
SS-02	5	D3-2(30)	1	ADVANCE STREET NAME (2 Line)	36"	18"		REMAIN										"SEA COLONY, EAST ->"
SS-02	6A	M1-8(12)	1	BIKE ROUTE - 12x18	12"	18"	1.5	NEW		1				SOIL	1			"1"
SS-02	6B	M6-3(B)	1	DIRECTIONAL ARROW (Up) - 12x9	12"	9"	0.8	ADD TO ASSEMBLY		1								
SS-02	7A	W3-3(30)	1	SIGNAL AHEAD (Symbol) - 30x30	30"	30"		REMAIN										
SS-02	7B	W23-2P-DE(30)	1	NEW TRAFFIC PATTERN (plaque) - 30x24	30"	24"	5.0	ADD TO ASSEMBLY		1								
SS-02	8A	W3-3(30)	1	SIGNAL AHEAD (Symbol) - 30x30	30"	30"		REMAIN										
SS-02	8B	W23-2P-DE(30)	1	NEW TRAFFIC PATTERN (plaque) - 30x24	30"	24"	5.0	ADD TO ASSEMBLY		1								
SS-02	9A	D3-2(30)	1	ADVANCE STREET NAME (2 Line)	36"	18"		REMAIN										"SEA COLONY, <- WEST"
SS-02	9B	R3-20-DE	1	TURN LANE	18"	18"		REMAIN										
SS-02	10A	M3-1(24)	1	CARDINAL DIRECTION - NORTH - 24x12	24"	12"	2.0	RENEW	1	1				SOIL	1			RENEW SIGNS ON NEW POST
SS-02	10B	M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	24"	24"	4.0	RENEW	1	1								"1"
SS-02	10C	M6-2_L(21)	1	DIRECTIONAL ARROW (Left - upward 45) - 21x15	21"	15"		REMOVE	1									
SS-02	10D	M6-3(21)	1	DIRECTIONAL ARROW (Up) - 21x15	21"	15"	2.2	ADD TO ASSEMBLY		1								
SS-02	10E	R7-4-DE(12)	1	NO STOPPING, STANDING, OR PARKING - 12x18	12"	18"		REMOVE	1									
SS-02	10F	M1-8-DE(12)	1	BIKE ROUTE - 12x24	12"	24"		REMOVE	1									"1"
SS-02	10G	M1-8(12)	1	BIKE ROUTE - 12x18	12"	18"	1.5	ADD TO ASSEMBLY		1								"1"
SS-02	10H	M6-3(B)	1	DIRECTIONAL ARROW (Up) - 12x9	12"	9"	0.8	ADD TO ASSEMBLY		1								
				PAGE TOTALS			71		17	20		0	0		8	2	0	
				JOB TOTALS			125		51	38		0	0		19	5	0	

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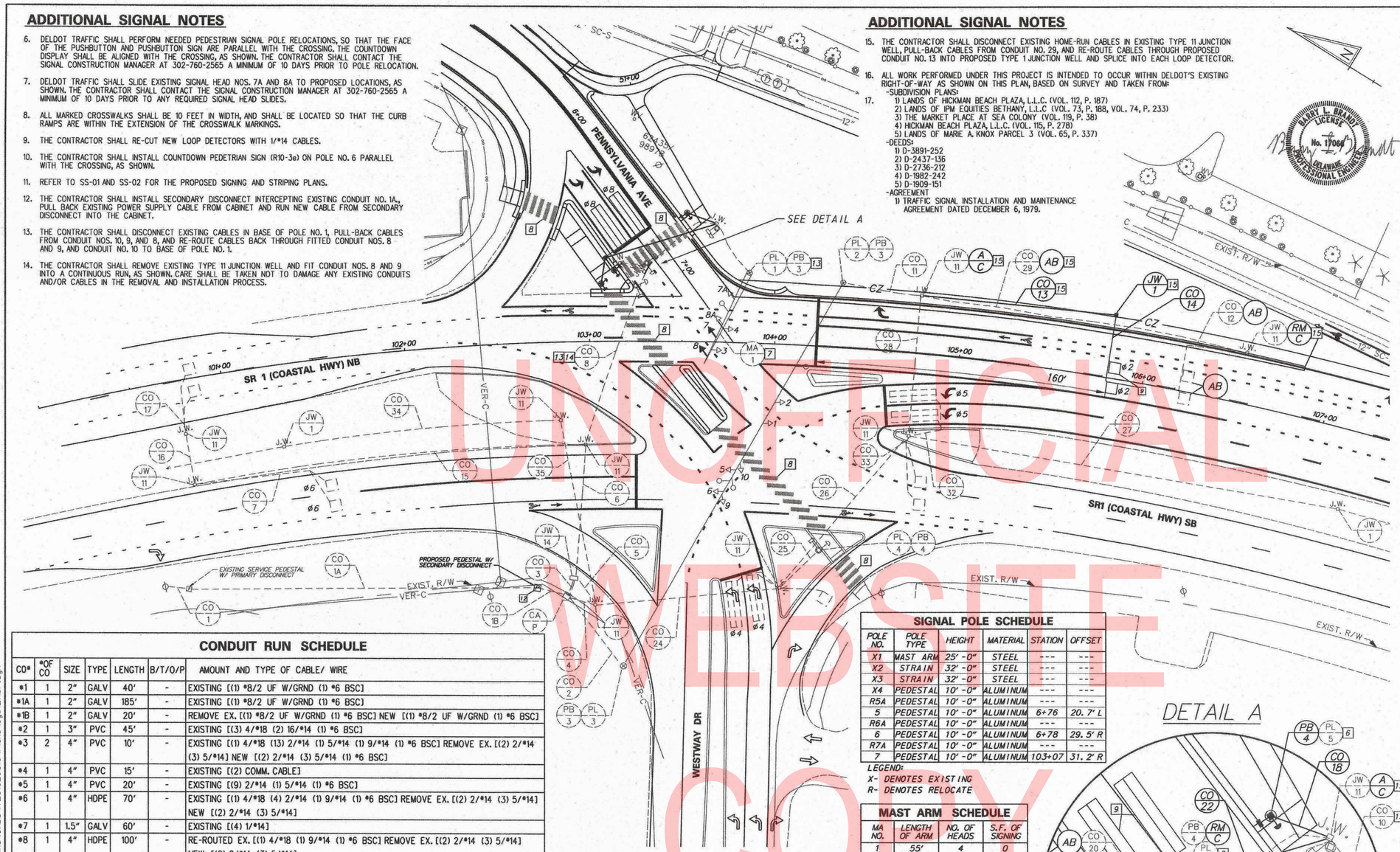
ADDITIONAL SIGNAL NOTES

6. DELDOT TRAFFIC SHALL PERFORM NEEDED PEDESTRIAN SIGNAL POLE RELOCATIONS, SO THAT THE FACE OF THE PUSHBUTTON AND PUSHBUTTON SIGN ARE PARALLEL WITH THE CROSSING. THE COUNTDOWN DISPLAY SHALL BE ALIGNED WITH THE CROSSING, AS SHOWN. THE CONTRACTOR SHALL CONTACT THE SIGNAL CONSTRUCTION MANAGER AT 302-760-2565 A MINIMUM OF 10 DAYS PRIOR TO POLE RELOCATION.
7. DELDOT TRAFFIC SHALL SLIDE EXISTING SIGNAL HEAD NOS. 7A AND 8A TO PROPOSED LOCATIONS, AS SHOWN. THE CONTRACTOR SHALL CONTACT THE SIGNAL CONSTRUCTION MANAGER AT 302-760-2565 A MINIMUM OF 10 DAYS PRIOR TO ANY REQUIRED SIGNAL HEAD SLIDES.
8. ALL MARKED CROSSWALKS SHALL BE 10 FEET IN WIDTH, AND SHALL BE LOCATED SO THAT THE CURB RAMPS ARE WITHIN THE EXTENSION OF THE CROSSWALK MARKINGS.
9. THE CONTRACTOR SHALL RE-CUT NEW LOOP DETECTORS WITH 1/#14 CABLES.
10. THE CONTRACTOR SHALL INSTALL COUNTDOWN PEDETRIAN SIGN (R10-3e) ON POLE NO. 6 PARALLEL WITH THE CROSSING, AS SHOWN.
11. REFER TO SS-01 AND SS-02 FOR THE PROPOSED SIGNING AND STRIPING PLANS.
12. THE CONTRACTOR SHALL INSTALL SECONDARY DISCONNECT INTERCEPTING EXISTING CONDUIT NO. 1A., PULL BACK EXISTING POWER SUPPLY CABLE FROM CABINET AND RUN NEW CABLE FROM SECONDARY DISCONNECT INTO THE CABINET.
13. THE CONTRACTOR SHALL DISCONNECT EXISTING CABLES IN BASE OF POLE NO. 1, PULL-BACK CABLES FROM CONDUIT NOS. 10, 9, AND 8, AND RE-ROUTE CABLES BACK THROUGH FITTED CONDUIT NOS. 8 AND 9, AND CONDUIT NO. 10 TO BASE OF POLE NO. 1.
14. THE CONTRACTOR SHALL REMOVE EXISTING TYPE 11 JUNCTION WELL AND FIT CONDUIT NOS. 8 AND 9 INTO A CONTINUOUS RUN, AS SHOWN. CARE SHALL BE TAKEN NOT TO DAMAGE ANY EXISTING CONDUITS AND/OR CABLES IN THE REMOVAL AND INSTALLATION PROCESS.

ADDITIONAL SIGNAL NOTES

15. THE CONTRACTOR SHALL DISCONNECT EXISTING HOME-RUN CABLES IN EXISTING TYPE 11 JUNCTION WELL, PULL-BACK CABLES FROM CONDUIT NO. 29, AND RE-ROUTE CABLES THROUGH PROPOSED CONDUIT NO. 13 INTO PROPOSED TYPE 1 JUNCTION WELL AND SPLICE INTO EACH LOOP DETECTOR.
16. ALL WORK PERFORMED UNDER THIS PROJECT IS INTENDED TO OCCUR WITHIN DELDOT'S EXISTING RIGHT-OF-WAY AS SHOWN ON THIS PLAN, BASED ON SURVEY AND TAKEN FROM:
    - SUBDIVISION PLANS:
17. 1) LANDS OF HICKMAN BEACH PLAZA, L.L.C. (VOL. 112, P. 187)
    2) LANDS OF IPM EQUITIES BETHANY, L.L.C (VOL. 73, P. 188, VOL. 74, P. 233)
    3) THE MARKET PLACE AT SEA COLONY (VOL. 119, P. 38)
    4) HICKMAN BEACH PLAZA, L.L.C. (VOL. 115, P. 278)
    5) LANDS OF MARIE A. KNOX PARCEL 3 (VOL. 65, P. 337)
    - DEEDS:
    1) D-3891-252
    2) D-2437-136
    3) D-2736-212
    4) D-1982-242
    5) D-1909-151
    - AGREEMENT
    1) TRAFFIC SIGNAL INSTALLATION AND MAINTENANCE AGREEMENT DATED DECEMBER 6, 1979.



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SIGNAL POLE SCHEDULE

POLE NO.	POLE TYPE	HEIGHT	MATERIAL	STATION	OFFSET
X1	MAST ARM	25'-0"	STEEL	---	---
X2	STRAIN	32'-0"	STEEL	---	---
X3	STRAIN	32'-0"	STEEL	---	---
X4	PEDESTAL	10'-0"	ALUMINUM	---	---
R5A	PEDESTAL	10'-0"	ALUMINUM	---	---
5	PEDESTAL	10'-0"	ALUMINUM	6+76	20.7' L
R6A	PEDESTAL	10'-0"	ALUMINUM	---	---
6	PEDESTAL	10'-0"	ALUMINUM	6+78	29.5' R
R7A	PEDESTAL	10'-0"	ALUMINUM	---	---
7	PEDESTAL	10'-0"	ALUMINUM	103+07	31.2' R

LEGEND:
X- DENOTES EXISTING
R- DENOTES RELOCATE

MAST ARM SCHEDULE

MA NO.	LENGTH OF ARM	NO. OF HEADS	S.F. OF SIGNING
1	55'	4	0

CONDUIT RUN SCHEDULE

CO*	#OF CO	SIZE	TYPE	LENGTH	B/T/O/P	AMOUNT AND TYPE OF CABLE/ WIRE
*1	1	2"	GALV	40'	-	EXISTING [(1) #8/2 UF W/GRND (1) #6 BSC]
*1A	1	2"	GALV	185'	-	EXISTING [(1) #8/2 UF W/GRND (1) #6 BSC]
*1B	1	2"	GALV	20'	-	REMOVE EX. [(1) #8/2 UF W/GRND (1) #6 BSC] NEW [(1) #8/2 UF W/GRND (1) #6 BSC]
*2	1	3"	PVC	45'	-	EXISTING [(3) 4/#18 (2) 16/#14 (1) #6 BSC]
*3	2	4"	PVC	10'	-	EXISTING [(1) 4/#18 (13) 2/#14 (1) 5/#14 (1) 9/#14 (1) #6 BSC] REMOVE EX. [(2) 2/#14 (3) 5/#14] NEW [(2) 2/#14 (3) 5/#14 (1) #6 BSC]
*4	1	4"	PVC	15'	-	EXISTING [(2) COMM. CABLE]
*5	1	4"	PVC	20'	-	EXISTING [(9) 2/#14 (1) 5/#14 (1) #6 BSC]
*6	1	4"	HDPE	70'	-	EXISTING [(1) 4/#18 (4) 2/#14 (1) 9/#14 (1) #6 BSC] REMOVE EX. [(2) 2/#14 (3) 5/#14] NEW [(2) 2/#14 (3) 5/#14]
*7	1	1.5"	GALV	60'	-	EXISTING [(4) 1/#14]
*8	1	4"	HDPE	100'	-	RE-ROUTED EX. [(1) 4/#18 (1) 9/#14 (1) #6 BSC] REMOVE EX. [(2) 2/#14 (3) 5/#14] NEW [(2) 2/#14 (3) 5/#14]
*9	1	4"	HDPE	45'	-	RE-ROUTED EX. [(1) 4/#18 (1) 9/#14 (1) #6 BSC] REMOVE EX. [(1) 5/#14] NEW [(2) 2/#14 (3) 5/#14]
*10	1	3"	PVC	30'	-	RE-ROUTED EX. [(1) 4/#18] (1) 9/#14 (1) #6 BSC]
*11	1	3"	PVC	25'	-	EXISTING [(1) #6 BSC]
*12	1	1.5"	GALV	25'	-	REMOVE EX. [(4) 1/#14]
13	1	2.5"	PVC	123'	T	RE-ROUTED EX. [(2) 2/#14 (1) #6 BSC]
14	1	1.5"	GALV	10'	T	NEW [(4) 1/#14]
*15	1	1.5"	GALV	215'	-	EXISTING [(4) 2/#14 (1) #6 BSC]
*16	1	2.5"	GALV	25'	-	EXISTING [(2) 2/#14 (1) #6 BSC]
*17	1	1"	GALV	4'	-	EXISTING [(4) 1/#14]
18	1	2.5"	PVC	35'	T	NEW [(1) 5/#14 (1) #6 BSC]
*19	1	2.5"	GALV	15'	-	REMOVE EX. [(1) 5/#14 (1) #6 BSC]
*20	1	2.5"	GALV	15'	-	REMOVE EX. [(1) 5/#14 (1) #6 BSC]
*21	2	1.5"	GALV	55'	-	REMOVE EX. [(2) 2/#14 (2) 5/#14 (1) #6 BSC]
22	1	4"	PVC	125'	O	NEW [(2) 2/#14 (2) 5/#14 (1) #6 BSC]
*23	1	2.5"	GALV	2'	-	REMOVE EX. [(1) 5/#14 (1) #6 BSC]

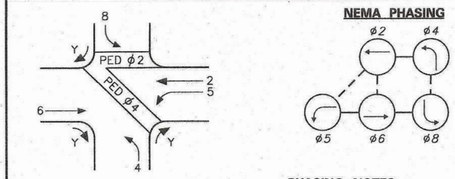
* DENOTES EXISTING, B = BORE, T = TRENCH, O = OPEN CUT, P = ATTACH TO POLE.

CONDUIT RUN SCHEDULE (CONT'D)

CO*	#OF CO	SIZE	TYPE	LENGTH	B/T/O/P	AMOUNT AND TYPE OF CABLE/ WIRE
*24	1	2.5"	GALV	100'	-	EXISTING [(9) 2/#14 (1) 5/#14 (1) #6 BSC (1) COMM. CABLE]
*25	1	2.5"	GALV	30'	-	EXISTING [(1) 5/#14 (1) #6 BSC]
*26	1	2.5"	GALV	110'	-	EXISTING [(6) 2/#14 (1) #6 BSC (1) COMM. CABLE]
*27	1	2.5"	GALV	235'	-	EXISTING [(1) COMM. CABLE]
*28	1	1.5"	GALV	75'	-	EXISTING [(2) 2/#14 (1) #6 BSC]
*29	1	1.5"	GALV	180'	-	REMOVE EX. [(1) 4/#18 (2) 2/#14 (1) #6 BSC]
30	1	2.5"	PVC	20'	T	NEW [(1) 5/#14 (1) #6 BSC]
31	1	2.5"	PVC	30'	T	NEW [(1) 5/#14 (1) #6 BSC]
*32	1	1"	GALV	15'	-	EXISTING [(4) 1/#14]
*33	1	1"	GALV	3'	-	EXISTING [(4) 1/#14]
*34	1	2.5"	GALV	150'	-	EXISTING [(1) COMM. CABLE]
*35	1	2.5"	GALV	100'	-	EXISTING [(1) COMM. CABLE]

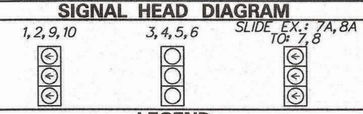
* DENOTES EXISTING, B = BORE, T = TRENCH, O = OPEN CUT, P = ATTACH TO POLE.

SIGNAL PHASING



PHASING NOTES
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

SIGNAL HEAD DIAGRAM



LEGEND

AB	ABANDON	OH	EXISTING OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
CA X	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	OH *	PROPOSED OVERHEAD RUN IDENTIFIER (* OF OVERHEAD RUN)
CA X	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	PB X	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
CO *	EXISTING CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)	PB X	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
CO *	PROPOSED CONDUIT RUN IDENTIFIER (* OF CONDUIT RUN)	PL X	EXISTING POLE IDENTIFIER (* OF POLE)
JW X	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	PL X	PROPOSED POLE IDENTIFIER (* OF POLE)
JW X	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	RM C	REMOVE BY CONTRACTOR
MA XX	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	RM O	REMOVE BY OTHERS
MA XX	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	RM TC	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1		
LOOP DETECTOR, TYPE 2		
LUMINAIRE		
MAST ARM		
MICROWAVE DETECTION		
OPTICOM RECEIVER		
OVERHEAD SIGNING		
PEDESTRIAN POLE/BASE		
PEDESTRIAN PUSHBUTTON		
PEDESTRIAN SIGNAL HEAD		
RIGHT-OF-WAY		R/W
SERVICE PEDESTAL	P	P
SIGNAL CABINET		
SIGNAL HEAD		
SIGNAL POLE/BASE		
SPAN INSULATOR		
SPAN WIRE	XX	
UTILITY POLE		
VIDEO DETECTION		

GENERAL SIGNAL NOTES

1. ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC DOVER, DELAWARE.
2. POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECTION 201, 202, AND 746 (2001 SPECIFICATIONS) OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER. EXISTING CONDUIT IS TO BE ABANDONED.
3. PROPOSED POLE BASES SUPPORTING POLES WITH PEDESTRIAN PUSHBUTTONS SHALL BE CONSTRUCTED IMMEDIATELY ADJACENT TO THE FLAT (50:1 FLATTER) LANDING AREA OF THE CURB RAMP OR SIDEWALK IN ACCORDANCE WITH CURRENT ADA BEST PRACTICES, POLE BASES SHALL BE FLUSH WITH THE ADJOINING LANDING AREA. THE PEDESTRIAN PUSHBUTTON SHOULD BE INSTALLED AT A HEIGHT OF 42 TO 48 INCHES ABOVE THE LANDING AREA/SIDEWALK, AND SHALL BE LOCATED SUCH THAT THE MAXIMUM REACH DISTANCE IS 10 INCHES FROM THE LANDING AREA TO THE FACE OF THE PUSHBUTTON. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET OR MORE THAN 10 FEET ABOVE SIDEWALK LEVEL.
4. ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

SG-01

RECOMMENDED [signature] DATE: 3/14/2019
RECOMMENDED c Dave DATE: 3/14/19
RECOMMENDED ____ DATE: ____
APPROVED TRAFFIC ENGINEER [signature] DATE: 03/14/2019
APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER [signature] DATE: 3/14/19

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

SCALE 0 30 60 90 FEET

ANCHORAGE WET POND PEDESTRIAN IMPROVEMENTS

CONTRACT	T201620019
COUNTY	SUSSEX
PERMIT NO.	S138
DESIGNED BY: SH (RK&K)	
CHECKED BY: JVB (RK&K)	

SIGNALIZATION PLAN SR 1 (COASTAL HIGHWAY) AT PENNSYLVANIA AVENUE/ WESTWAY DRIVE

SHEET NO. 28
TOTAL SHTS. 28

8/16/2018 11:54:53 AM
\\balsrv01\v2014\2014\14144_DelDOT1707\Task 14 - Anchorage Canal SWM Pond\CADD\T201620019\Plans\sg01_ACP.dgn