THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY UNITS

CONSTRUCTION PLANS FOR:

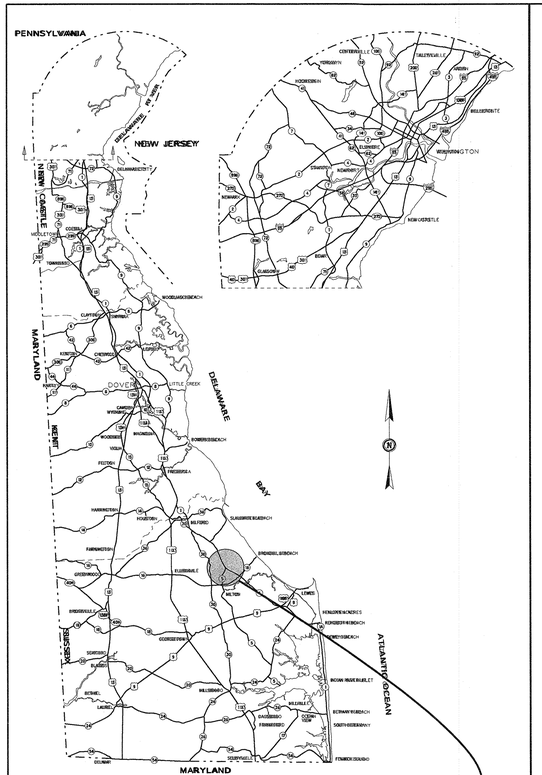
OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT NUMBER: T201904003

FEDERAL AID PROJECT NUMBER: ESTP-2019(10)

COUNTY: SUSSEX **M.R. #: 014, 022**

UNOFFICIAL WEBSITE COPY



GENERAL LOCATION OF CONTRACT

DESIGN DESIGNATION

SR 1	FUNCTIONAL CLASS: PRINCIPAL ARTERIAL		D.H.V. PROJECTED: 5300	YEAR: 2050
	TYPE OF CONSTRUCTION: MEDIAN RECONSTRUCTION		DESIGN SPEED: 55 M.P.H.	
	A.A.D.T. CURRENT: 31,100	YEAR: 2019	TRUCKS: 6.00 %	
	A.A.D.T. PROJECTED: 44200	YEAR: 2050	DIRECTION OF DISTRIBUTION: 58.00 %	
SR 5	FUNCTIONAL CLASS: MAJOR COLLECTOR		D.H.V. PROJECTED:	YEAR:
	TYPE OF CONSTRUCTION: RECONSTRUCTION		DESIGN SPEED: M.P.H.	
	A.A.D.T. CURRENT: 3,877	YEAR: 2017	TRUCKS: %	
	A.A.D.T. PROJECTED:	YEAR:	DIRECTION OF DISTRIBUTION: %	

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME
1151	ROUTE 14 (FIVE POINTS TO ROAD 38)
1433	HARBESON TO WAPLES POND
CS47	MILTON TO WAPLES MILL

APPROVED FOR ADVERTISEMENT

DIRECTOR OF TRANSPORTATION SOLUTIONS — DATE: 09/04/2019

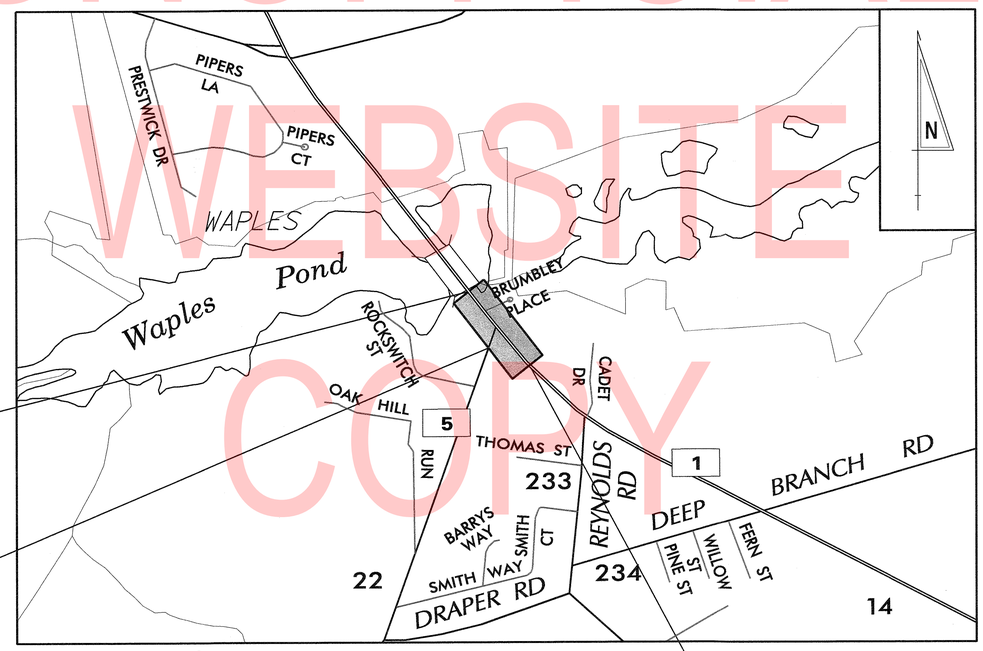
PREPARED BY
DELDOT - TRANSPORTATION SOLUTIONS
PROJECT DEVELOPMENT

THIS SEAL APPLIES TO ALL SHEETS BEARING THE "PD" SECTION DESIGNATION. — DATE: 09/04/19

JOHN R. GAINES, P.E. LICENSED No. 13553 DELAWARE PROFESSIONAL ENGINEER — SEAL

END CONTRACT STATION 120+71.00

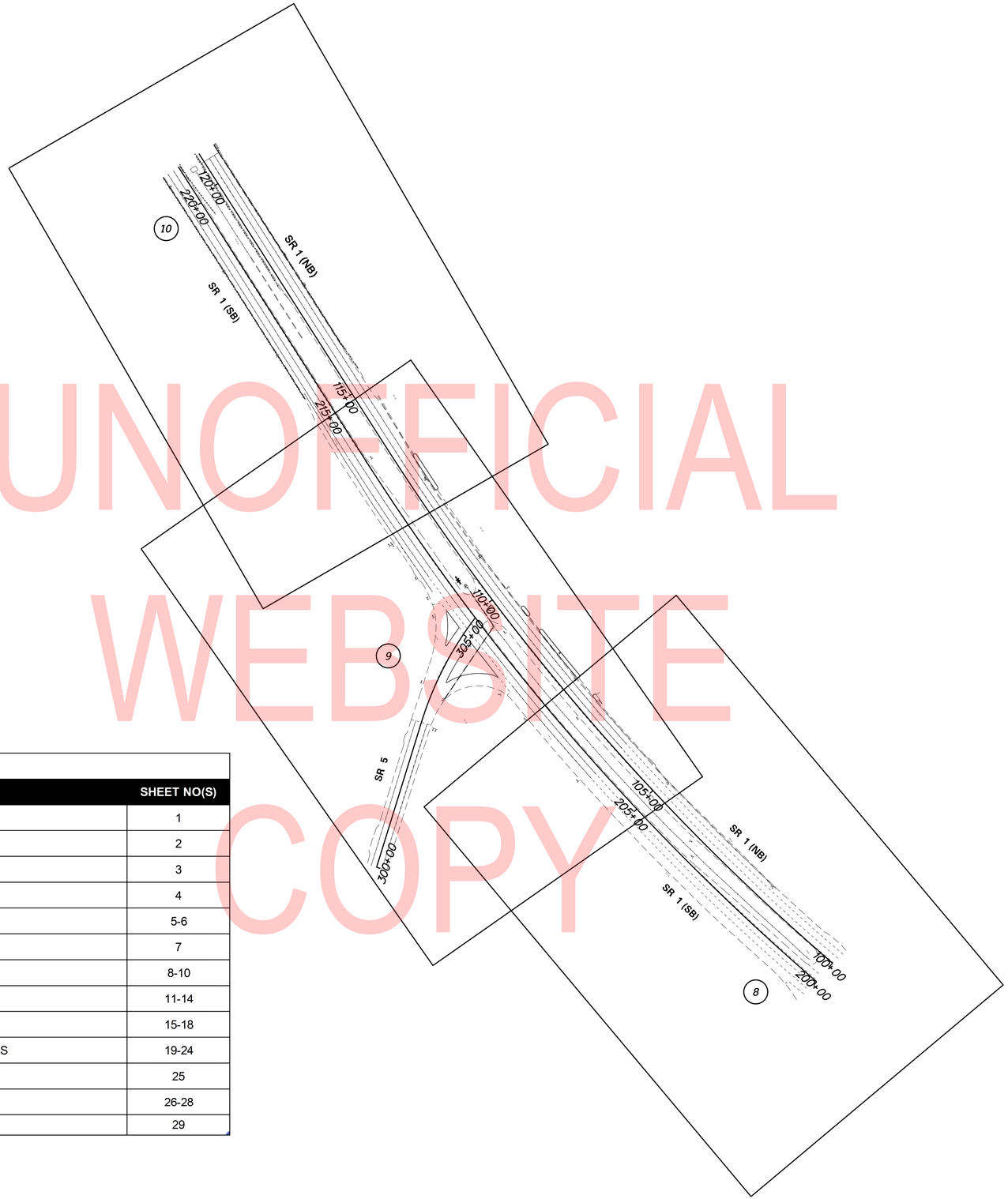
LIMIT OF CONTRACT STATION 300+00.00



LOCATION MAP
NOT TO SCALE

BEGIN CONTRACT STATION 100+00.00

15-AUG-2019
13:29
\\dotfs08\CADD\Active_Designs\SUSSEX\014\road\T201904304\Plans\tc.dgn



UNOFFICIAL WEBSITE COPY

INDEX OF SHEETS

SECTION	SHEET DESCRIPTION	SHEET NO(S)
PD	TITLE	1
PD	INDEX OF SHEETS	2
PD	LEGEND	3
PD	NOTES	4
PD	TYPICAL SECTIONS	5-6
PD	HORIZONTAL AND VERTICAL CONTROL	7
PD	CONSTRUCTION PLANS	8-10
PD	PROFILES	11-14
PD	GRADES AND GEOMETRICS	15-18
PD	CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLANS	19-24
TS	DETOUR PLANS	25
PD	SIGNING, STRIPING AND CONDUIT PLANS	26-28
TS	SIGN SCHEDULE	29

ADDENDA / REVISIONS

SCALE 0 120 240 360 FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY	CHECKED BY:	J. GAINES
SUSSEX		

INDEX OF SHEETS

SECTION PD

SHEET NO. 2

04-SEP-2019 11:19 Y:\SUSSEX\014\road\T201904304\Plans\IS01.dgn

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
F.P.	FLAG POLE
	GUARDRAIL - STEEL BEAM
	GUARDRAIL - WIRE ROPE
LAMP	LAMP AND POST - RESIDENTIAL
MB	MAILBOX
P.M.	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
S.C.O.	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
WV	WATER VALVE
WELL	WELL HEAD
?	MANHOLE - UNDETERMINED OWNER

PROPOSED SYMBOLS

CONSTRUCTION

	CONCRETE SAFETY BARRIER - PERMANENT
BFS	BIOFILTRATION SWALE
	TURF REINFORCEMENT MAT, TYPE 1
	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 / SAFETY 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
RTE	RIGHT-TO-ENTER
TCE	TEMPORARY CONSTRUCTION EASEMENT
100+00	PROPOSED RIGHT-OF-WAY BASELINE

IDENTIFIERS

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

LANDSCAPING

LS XXX	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 NOTES FOR MATERIALS AND DEPTHS

UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS

NOT TO SCALE

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSEX	CHECKED BY:	J. GAINES

LEGEND

SECTION
PD
SHEET NO.
3

15-AUG-2019
15:54
\\dotfs08\CADD\Active_Designs\SUSSEX\014\road\T201904304\Plans\lg01.dgn

GENERAL NOTES

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 20__ AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2014, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

2. ELECTRONIC DESIGN DATA 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)	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, THAT CONTAINS 3D FEATURE LINES FOR THE PROPOSED DESIGN. 3D FEATURE LINES ARE FOR THE PROPOSED TOP SURFACE ELEVATION ONLY.

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.

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

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

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

PROJECT NOTES

SECTION 100

4. 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.

5. 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

6. THE CONTRACTOR SHALL REMOVE AND RESET ALL MAILBOXES TO MAINTAIN MAIL SERVICE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RELOCATE MAILBOXES AS REQUIRED BY THE PROPOSED GEOMETRICS AND AS DIRECTED BY THE ENGINEER. WHEN RELOCATING MAILBOXES IN CURBED SECTIONS, THE FACE OF THE MAILBOX SHALL BE FLUSH WITH THE BACK EDGE OF CURB. WHEN RELOCATING MAILBOXES IN OPEN SECTIONS, THE FACE OF THE MAILBOX SHALL SET BACK 8 INCHES FROM THE EDGE OF THE PAVED SHOULDER. THE BOTTOM OF THE MAILBOX SHALL BE POSITIONED IN ACCORDANCE WITH THE LATEST VERSION OF THE UNITED STATES POSTAL SERVICE GUIDELINES. MAILBOXES LOCATED AT DRIVEWAY ENTRANCES SHALL BE PLACED ON THE FAR SIDE OF THE DRIVEWAY IN THE DIRECTION OF TRAVEL. POSTS BEING RESET IN CONCRETE SIDEWALK SHALL BE IN AN APPROPRIATE SIZE PVC SLEEVE. ACCEPTABLE POST SHALL BE 4 INCH X 4 INCH WOOD POST OR 4 INCH DIAMETER WOOD POST. FOR RELOCATING MULTIPLE MAILBOXES TOGETHER ALL POST SHALL BE SEPARATED BY A DISTANCE OF NO LESS THAN 3/4 OF THEIR FULL HEIGHT ABOVE THE GROUND. MULTIPLE MAILBOXES ATTACHED TO A SINGLE HORIZONTAL BOARD SHALL NOT BE LOCATED INSIDE THE CLEARZONE. EACH 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.

7. ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   a. DRAINAGE STRUCTURES
   b. PLUGGING AND USE OF FLOWABLE FILL IN EXISTING PIPES

SECTION 600

8. DRAINAGE INLET GRATES ADJACENT TO THE CURB OR EDGE PAVING, WITHIN THE PROJECT LIMITS, WHICH ARE NOT TYPE 1 OR TYPE 4, SHALL BE REPLACED WITH TYPE 1. INLET GRATES WITHIN THE PAVING, NOT ADJACENT TO THE CURB OR EDGE OF PAVING SHALL BE REPLACED WITH TYPE 3. THE ACTUAL LOCATIONS, THE NEED FOR ANY GRATE MODIFICATIONS OR FOR NEW FRAMES SHALL BE DETERMINED BY THE ENGINEER. ALL REPLACED GRATES/FRAMES SHALL BE DELIVERED TO THE NEAREST DISTRICT MAINTENANCE YARD WITH THE COST OF DELIVERY INCIDENTAL TO ITEM 602100 - REPLACING DRAINAGE INLET GRATE(S) & ITEM 602101 - REPLACING DRAINAGE INLET FARME(S). FINAL PAYMENT FOR REPLACED GRATES/FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.

9. STATION AND ELEVATION DATA GIVEN FOR DRAINAGE STRUCTURES ARE TO BE APPLIED TO THE CENTER OF THE GRATE FOR INLETS AND TO THE CENTER OF THE STRUCTURE FOR JUNCTION BOXES AND MANHOLES.

SECTION 700

10. 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

11. 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.

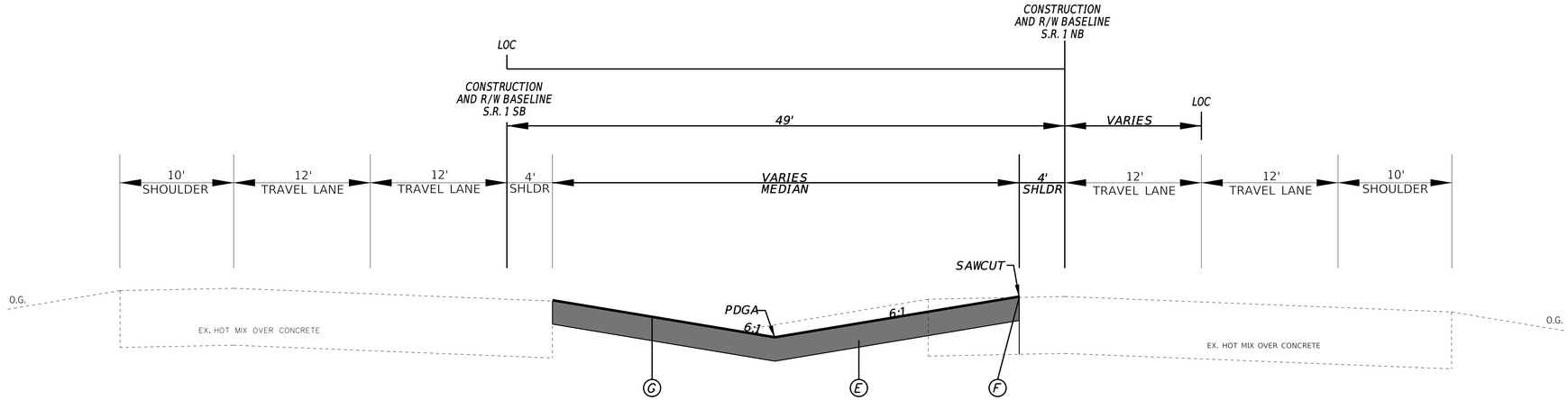
MISCELLANEOUS

12. THERE ARE NO ENVIRONMENTAL PERMITS ASSOCIATED WITH THIS PROJECT. AS SUCH, AN ENVIRONMENTAL COMPLIANCE SHEET WAS NOT PROVIDED

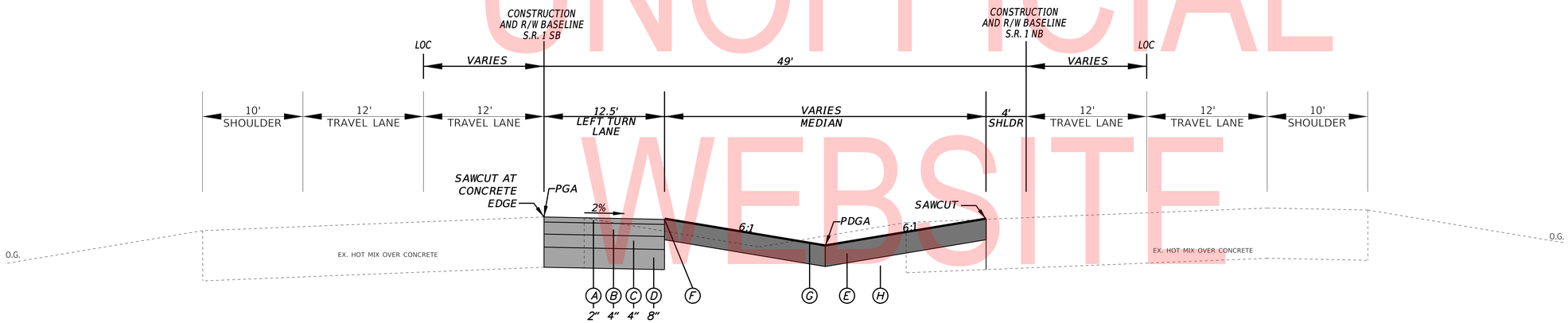
13. THE CONTRACTOR SHALL NOTIFY DART FIRST STATE AT DOT_DETOURS@DELAWARE.GOV AT LEAST 14 DAYS PRIOR TO THE START OF ANY DETOURS OR CONSTRUCTION, AND DOT_DTC_PROJECTDEVELOPMENT@DELAWARE.GOV AT SUCH TIME THE FACILITY IS COMPLETED AND OPERABLE FOR TRANSIT OPERATIONS. FOR EMERGENCY DETOUR INFORMATION ONLY, PLEASE CONTACT DTC'S CHIEF SCHEDULER AT 302-576-6019.

14. ALL DART SIGNS HAVE BEEN UPDATED TO A NEW DESIGN. THE DELDOT SIGN SHOP DOES NOT FABRICATE THE UPDATED SIGN OR ANY SUPPLEMENTAL PLAQUES TO ALLOW FOR ADDITIONAL ROUTE NUMBERS. ALL REQUESTS FOR FABRICATION OF THESE SIGNS MUST BE MADE THROUGH DART TRANSIT AT (302) 576-6132.

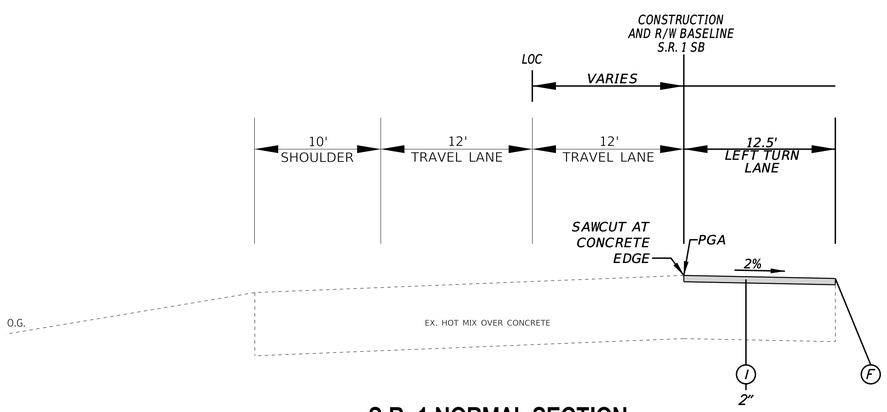
UNOFFICIAL WEBSITE COPY



S.R. 1 NORMAL SECTION
STATION 205+00 TO STATION 209+75



S.R. 1 NORMAL SECTION
STATION 201+50 TO STATION 205+00



S.R. 1 NORMAL SECTION
STATION 200+50 TO STATION 201+50

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	4"	8"

NOTES:
LATERAL OFFSET SHALL BE 4' FROM FACE OF CURB AND 6' FROM FACE OF CURB AT ENTRANCES AND INTERSECTIONS.

LEGEND

- (A) ITEM 401045 - SUPERPAVE, TYPE C, PG 70-22 (NON CARBONATE STONE)
- (B) ITEM 401015 - SUPERPAVE, TYPE B, PG 70-22
- (C) ITEM 401021 - SUPERPAVE, BCBC, 160 GYRATIONS, PG 64-22
- (D) ITEM 301001 - GRADED AGGREGATE BASE COURSE, TYPE B
- (E) ITEM 908004 - TOPSOIL, 6" DEPTH
  ITEAM 908014 - PERMANENT GRASS SEEDING, DRY GROUND
- (F) SAFETY EDGE FOR ROADWAY PAVEMENT
- (G) ITEM 908020 - EROSION CONTROL BLANKET, 6' OR ONE ROLL WIDTH
- (H) ITEM 209006 - TYPE F BORROW
- (I) ITEM 760012 - PAVEMENT MILLING, BITUMINOUS CONCRETEPAVEMENT, VARIABLE DEPTH

UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS

NOT TO SCALE

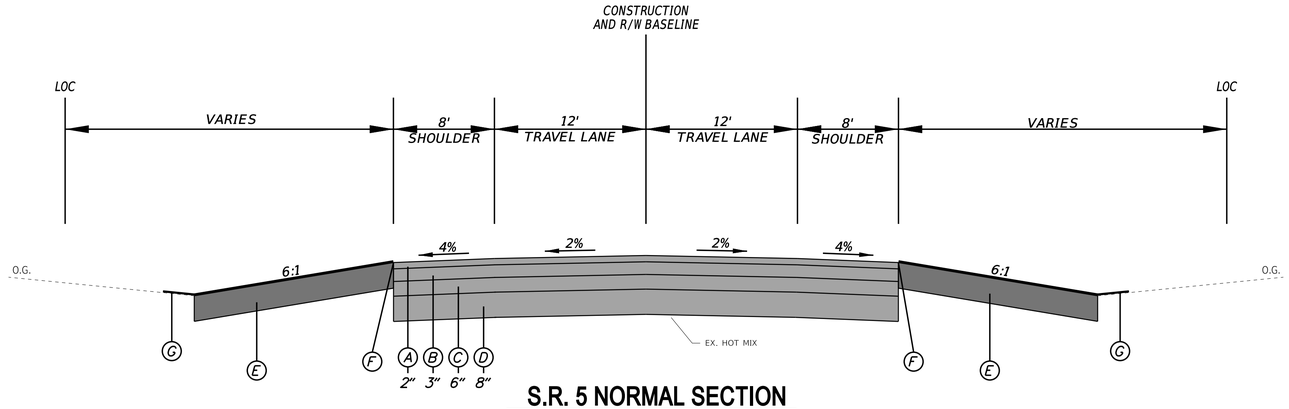
OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J. GAINES

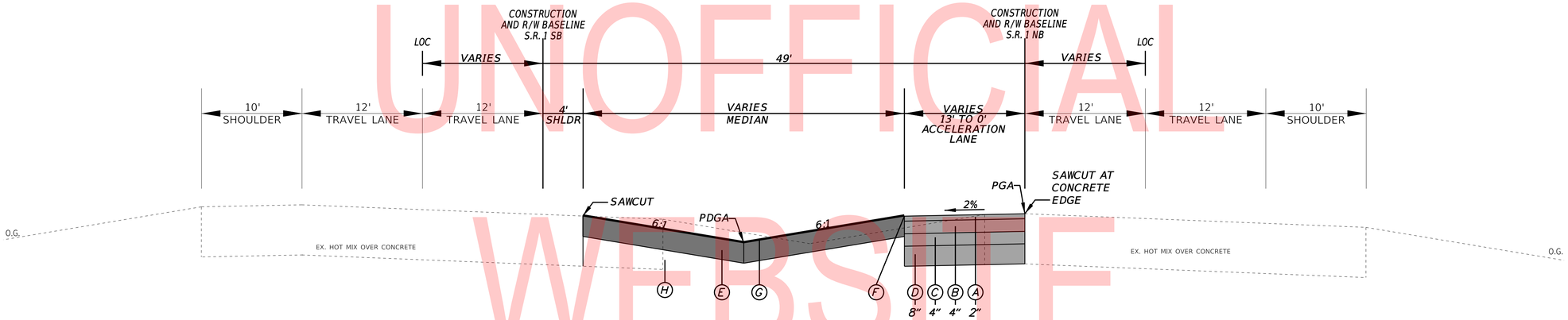
TYPICAL SECTIONS

SECTION
PD
SHEET NO.
5

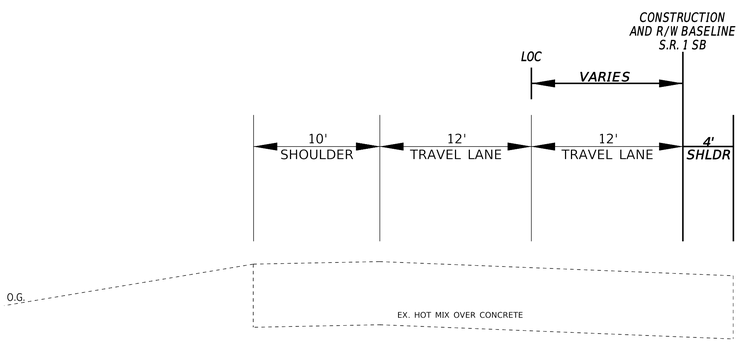
04-SEP-2019
14:59
Y:\SUSSEX\014\roadT20190430\Plans\TS01.dgn



S.R. 5 NORMAL SECTION
STATION 303+04 TO STATION 303+18



S.R. 1 NORMAL SECTION
STATION 211+12 TO STATION 213+79



S.R. 1 NORMAL SECTION
STATION 213+79 TO STATION 216+70

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	4"	8"

NOTES:
LATERAL OFFSET SHALL BE 4' FROM FACE OF CURB AND
6' FROM FACE OF CURB AT ENTRANCES AND INTERSECTIONS.

LEGEND

- (A) ITEM 401045 - SUPERPAVE, TYPE C, PG 70-22 (NON CARBONATE STONE)
- (B) ITEM 401015 - SUPERPAVE, TYPE B, PG 70-22
- (C) ITEM 401021 - SUPERPAVE, BCBC, 160 GYRATIONS, PG 64-22
- (D) ITEM 301001 - GRADED AGGREGATE BASE COURSE, TYPE B
- (E) ITEM 908004 - TOPSOIL, 6" DEPTH
  ITEAM 908014 - PERMANENT GRASS SEEDING, DRY GROUND
- (F) SAFETY EDGE FOR ROADWAY PAVEMENT
- (G) ITEM 908020 - EROSION CONTROL BLANKET, 6' OR ONE ROLL WIDTH
- (H) ITEM 209006 - TYPE F BORROW
- (I) ITEM 760012 - PAVEMENT MILLING, BITUMINOUS CONCRETEPAVEMENT, VARIABLE DEPTH

UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS	NOT TO SCALE	OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS	CONTRACT T201904003	BRIDGE NO. X	TYPICAL SECTIONS	SECTION PD
			COUNTY SUSSEX	DESIGNED BY: B. JACKSON		SHEET NO. 6
				CHECKED BY: J. GAINES		

04-SEP-2019
15:00
Y:\SUSSEX\014\road\T201904304\Plans\TS01.dgn

CONSTRUCTION ALIGNMENT CONTROL

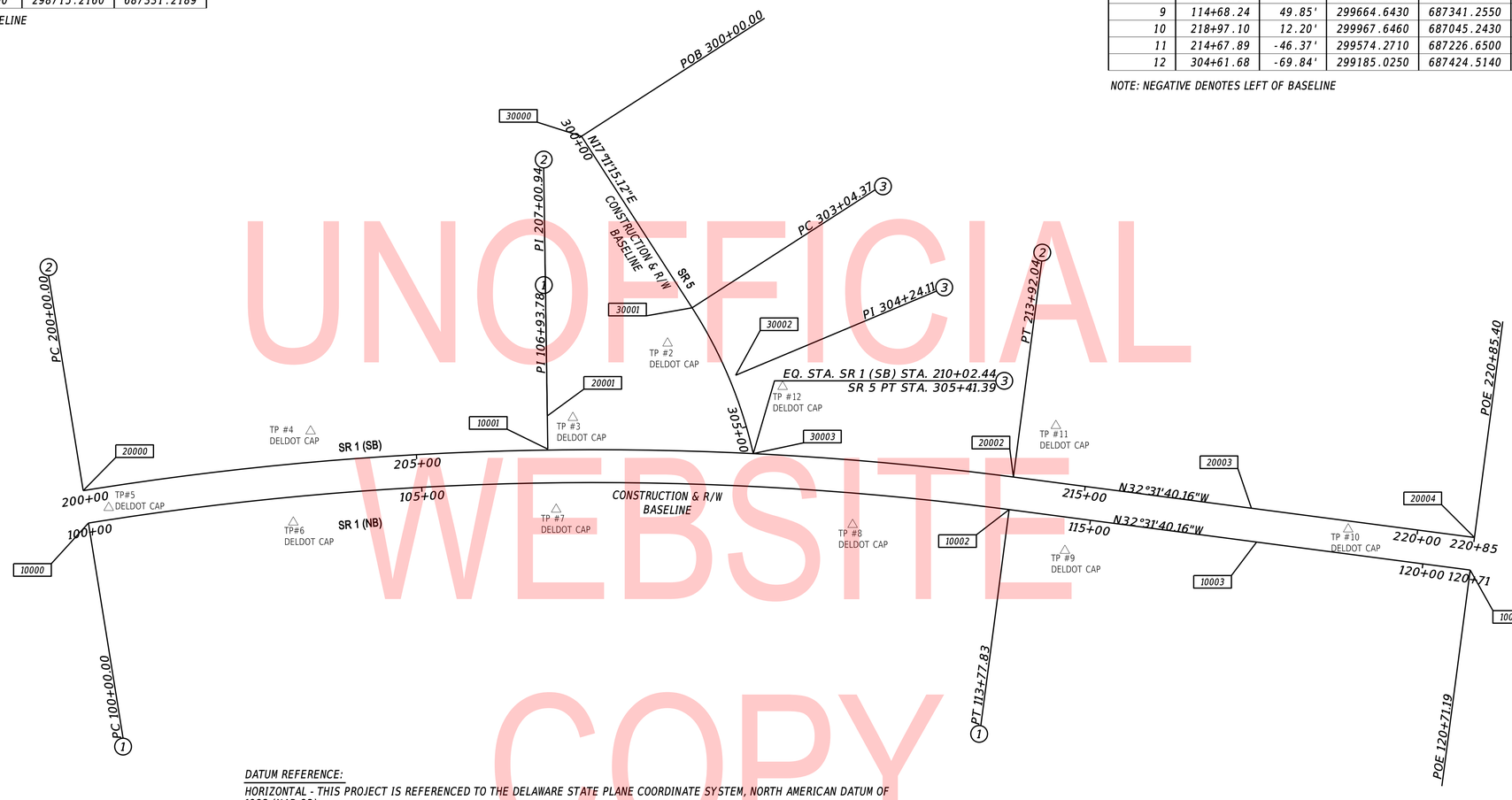
POINT NO.	STATION	OFFSET	NORTHING	EASTING
10003	117+50.00	0.00'	299875.3915	687147.7260
10004	120+71.18	0.00'	3000146.1965	686975.0193
20003	217+50.00	0.00'	299837.0601	687114.0553
20004	220+85.40	0.00'	300119.8487	686933.7059
30000	300+00.00	0.00'	298715.2160	687331.2189

NOTE: NEGATIVE DENOTES LEFT OF BASELINE

HORIZONTAL / VERTICAL CONTROL DATA

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEV.
2	303+31.39	38.91'	299011.9940	687485.2000	13.32'
3	207+33.67	-47.89'	298975.1170	687660.9730	17.41'
4	203+45.75	-46.16'	298688.5120	687927.8390	19.93'
5	100+33.39	-17.92'	298531.2960	688208.6800	19.72'
6	103+04.0	37.74'	298756.0990	688048.4220	19.04'
7	107+00.16	39.67'	299043.9980	687781.7640	16.47'
8	111+46.94	47.15'	299397.2850	687515.1460	9.89'
9	114+68.24	49.85'	299664.6430	687341.2550	7.09'
10	218+97.10	12.20'	299967.6460	687045.2430	8.01'
11	214+67.89	-46.37'	299574.2710	687226.6500	8.50'
12	304+61.68	-69.84'	299185.0250	687424.5140	14.14'

NOTE: NEGATIVE DENOTES LEFT OF BASELINE



UNOFFICIAL WEBSITE COPY

DATUM REFERENCE:

HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD 83).

VERTICAL - THIS PROJECT IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

CIRCULAR CURVE NO. 1

Element: Circular	STATION	NORTHING	EASTING
PC (10000)	100+00.00	298522.8356	688245.6774
PI (10001)	106+93.78	298976.6493	687720.9017
CC ( )		302115.7179	691352.7173
PT (10002)	113+77.82	299561.5998	687347.8477

Radius:	4750.00
Delta:	16.6197 Right
Degree of Curvature:	1.2062
Length:	1377.83
Tangent:	693.78
Chord:	1373.00
Middle Ordinate:	49.87
External:	50.40
Tangent Direction:	N 49°08'51" W
Radial Direction:	N 40°51'09" E
Chord Direction:	N 40°50'16" W
Radial Direction:	N 57°28'20" E
Tangent Direction:	N 32°31'40" W

CIRCULAR CURVE NO. 2

Element: Circular	STATION	NORTHING	EASTING
PC (20000)	200+00.00	298485.7722	688213.6258
PI (20001)	207+00.94	298944.2673	687683.4366
CC ( )		302115.7179	691352.7173
PT (20002)	213+92.04	299535.2521	687306.5343

Radius:	4799.00
Delta:	16.6197 Right
Degree of Curvature:	1.1939
Length:	1392.03
Tangent:	700.94
Chord:	1387.16
Middle Ordinate:	50.38
External:	50.91
Tangent Direction:	N 49°08'51" W
Radial Direction:	N 40°51'09" E
Chord Direction:	N 40°50'16" W
Radial Direction:	N 57°28'20" E
Tangent Direction:	N 32°31'40" W

CIRCULAR CURVE NO. 3

Element: Circular	STATION	NORTHING	EASTING
PC (30001)	303+04.36	299005.9895	687421.1590
PI (30002)	304+24.11	299120.3869	687456.5437
CC ( )		298806.52	688066.0153
PT (30003)	305+41.38	299215.6323	687529.1189

Radius:	675.00
Delta:	20.1192 Right
Degree of Curvature:	8.4883
Length:	237.02
Tangent:	119.74
Chord:	235.81
Middle Ordinate:	10.38
External:	10.54
Tangent Direction:	N 17°11'15" E
Radial Direction:	S 72°48'45" E
Chord Direction:	N 27°14'50" E
Radial Direction:	S 52°41'36" E
Tangent Direction:	N 37°18'24" E

ADDENDA / REVISIONS

SCALE 0 100 200 300 FEET

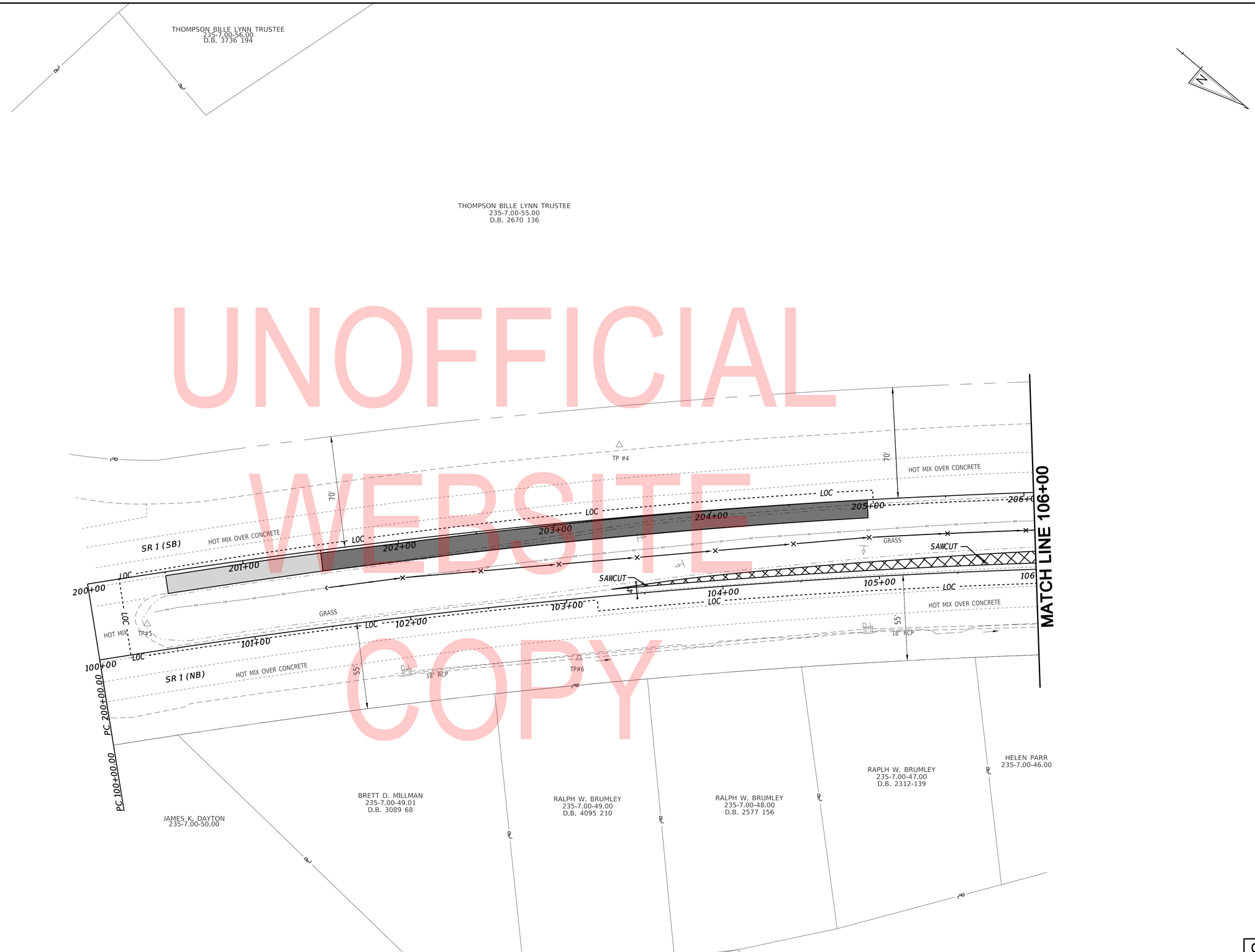
OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J. GAINES

HORIZONTAL AND VERTICAL CONTROL

SECTION
PD
SHEET NO.
7

16-AUG-2019
16:45
\\dotfs08\CADD\Active_Designs\SUSSEX\014\road\T201904304\Plans\HV01.dgn



UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS

SCALE
0 30 60 90
FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY	CHECKED BY:	J. GAINES
SUSSEX		

CONSTRUCTION PLAN

CP-01	
SECTION	
PD	
SHEET NO.	
8	

16-AUG-2019
16:52
\\dotfs08\CADD\Active_Designs\SUSSEX\014\road\T201904304\Plans\CP\CP01.dgn

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INVERT EL.	DIS. EL.
1	15" RCP	IV	184.00'	0.0035	9.35	8.70

SAFETY END SECTION SCHEDULE

NO.	SIZE	TYPE	GRATE SLOPE
1	15"	CONC	6:1

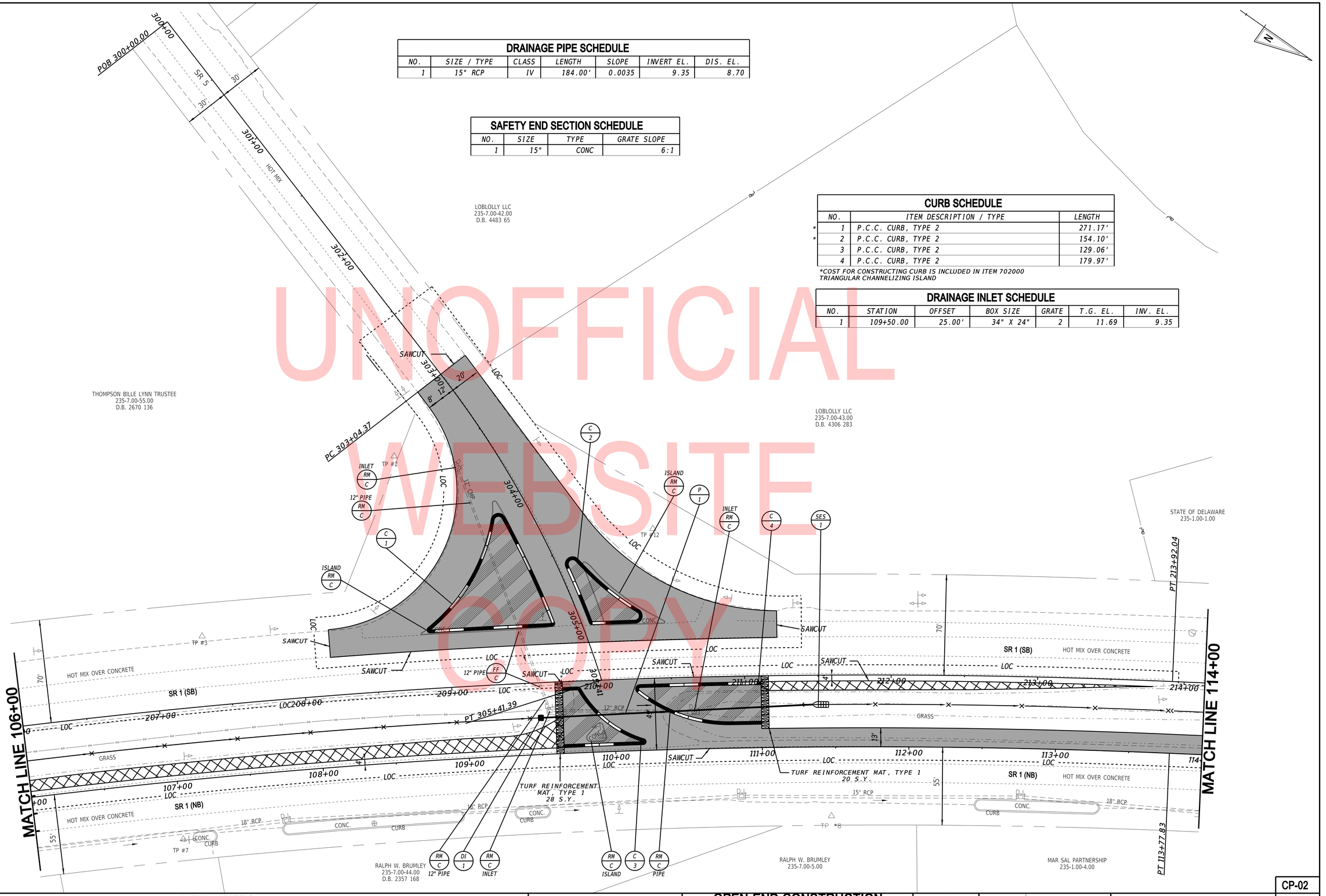
CURB SCHEDULE

	NO.	ITEM DESCRIPTION / TYPE	LENGTH
*	1	P.C.C. CURB, TYPE 2	271.17'
*	2	P.C.C. CURB, TYPE 2	154.10'
	3	P.C.C. CURB, TYPE 2	129.06'
	4	P.C.C. CURB, TYPE 2	179.97'

*COST FOR CONSTRUCTING CURB IS INCLUDED IN ITEM 702000 TRIANGULAR CHANNELIZING ISLAND

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
1	109+50.00	25.00'	34" X 24"	2	11.69	9.35



UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS

SCALE
0 30 60 90
FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J. GAINES

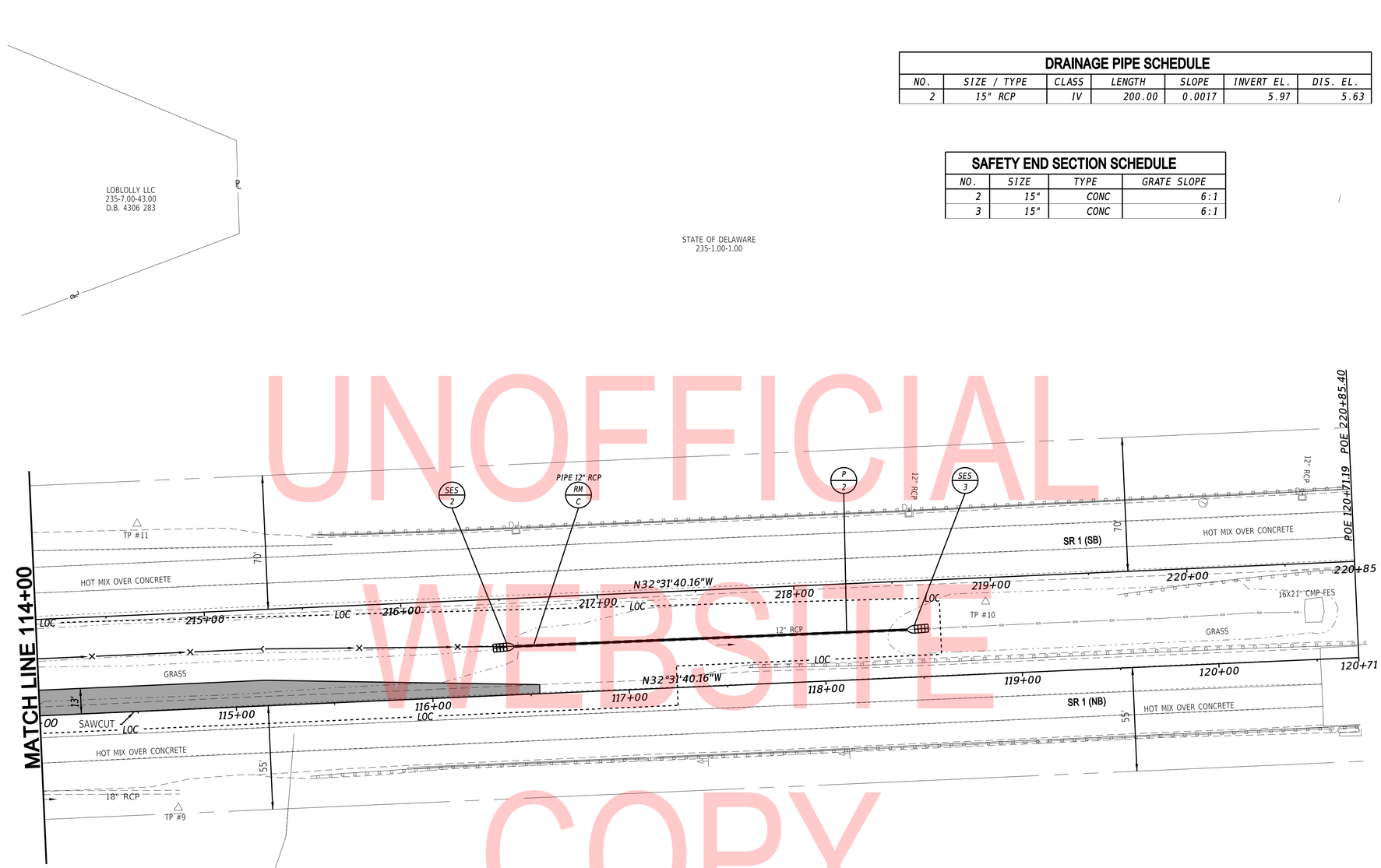
CONSTRUCTION PLAN

CP-02
SECTION
PD
SHEET NO.
9

05-SEP-2019
10:45
Y:\SUSSEX\014\road\T201904304\Plans\CP\CP02.dgn

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INVERT EL.	DIS. EL.
2	15" RCP	IV	200.00	0.0017	5.97	5.63

SAFETY END SECTION SCHEDULE			
NO.	SIZE	TYPE	GRATE SLOPE
2	15"	CONC	6:1
3	15"	CONC	6:1



UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS	

SCALE
0 30 60 90
FEET

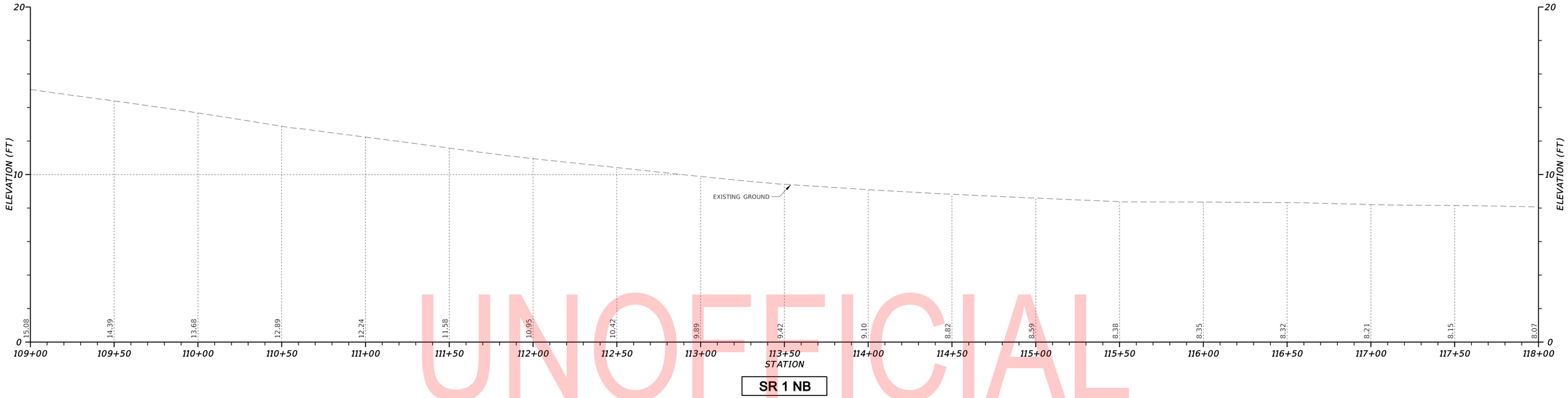
OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J. GAINES

CONSTRUCTION PLAN

CP-03
SECTION
PD
SHEET NO.
10

16-AUG-2019
16:54
\\dotfs08\CADD\Active_Designs\SUSSEX\014\roadT\T201904304\Plans\CP\CP03.dgn



SR 1 NB

SR 1 NB

UNOFFICIAL WEBSITE COPY

VERTICAL SCALE FEET 0 3 6 9

NOTE: THE BORING DATA PROVIDED ON THE PROFILE SHEETS INDICATES THE SOIL CONDITION ONLY AT THE SPECIFIC LOCATION EACH BORING WAS PERFORMED AND ONLY TO THE DEPTH PENETRATED.

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

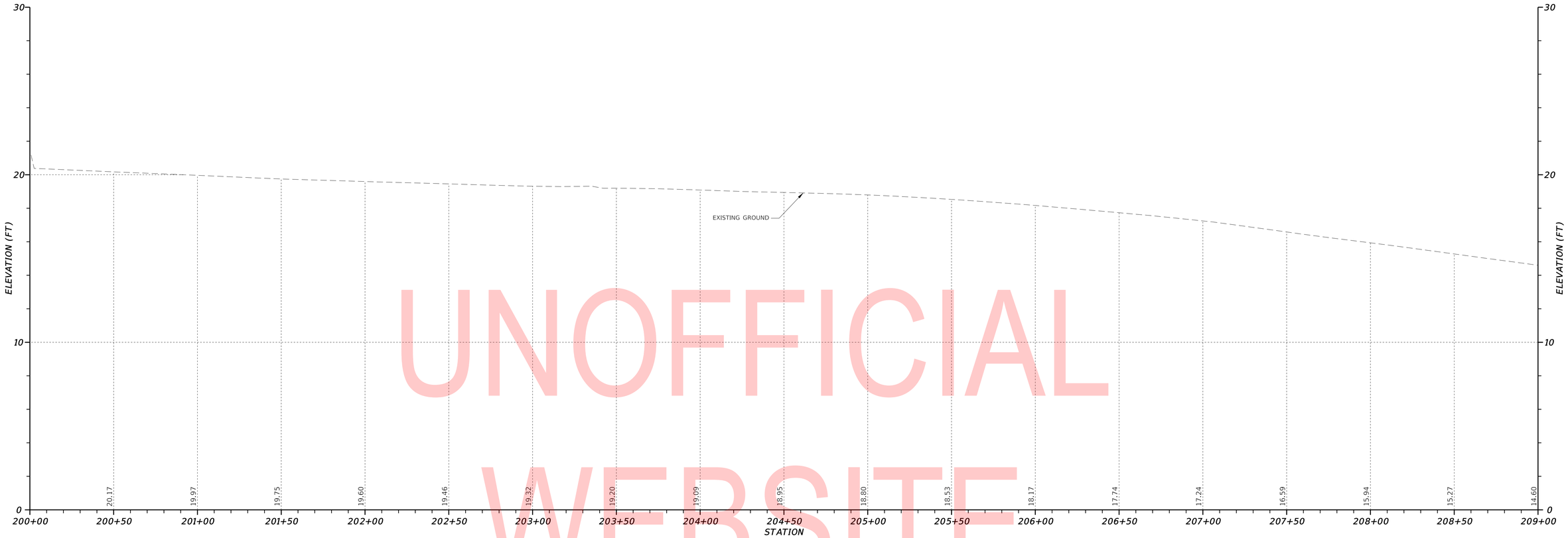
CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J. GAINES

PROFILES

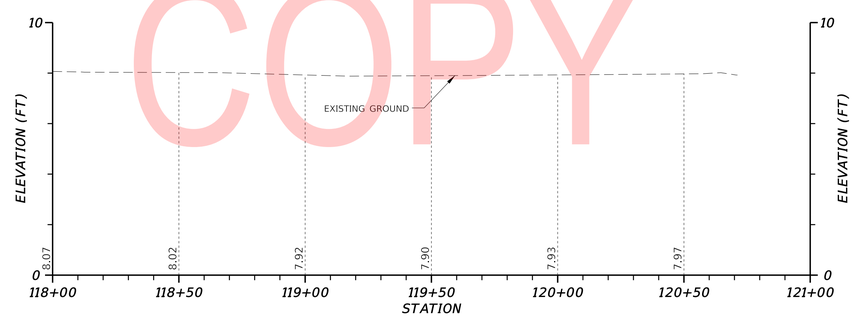
SECTION PD

SHEET NO. 11

16-AUG-2019
16:56
\\dotfs08\CADD\Active_Designs\SUSSEX\014\road\T201904304\Plans\PF01.dgn



SR 1 SB



SR 1 NB

UNOFFICIAL WEBSITE COPY

NOTE: THE BORING DATA PROVIDED ON THE PROFILE SHEETS INDICATES THE SOIL CONDITION ONLY AT THE SPECIFIC LOCATION EACH BORING WAS PERFORMED AND ONLY TO THE DEPTH PENETRATED.

VERTICAL SCALE FEET 0 3 6 9

ADDENDA / REVISIONS	

SCALE 0 30 60 90 FEET

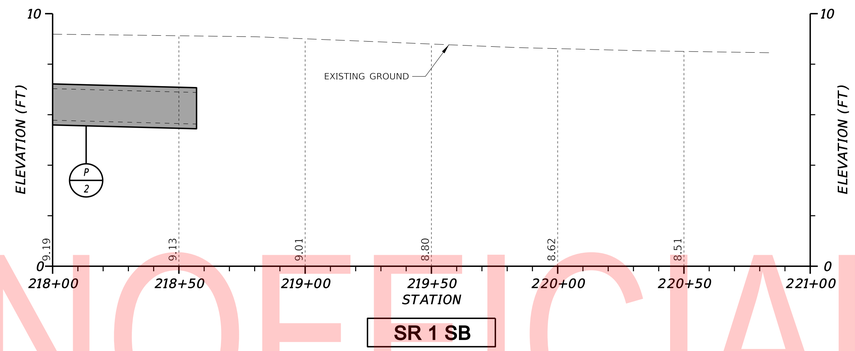
OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY	CHECKED BY:	J. GAINES
SUSSEX		

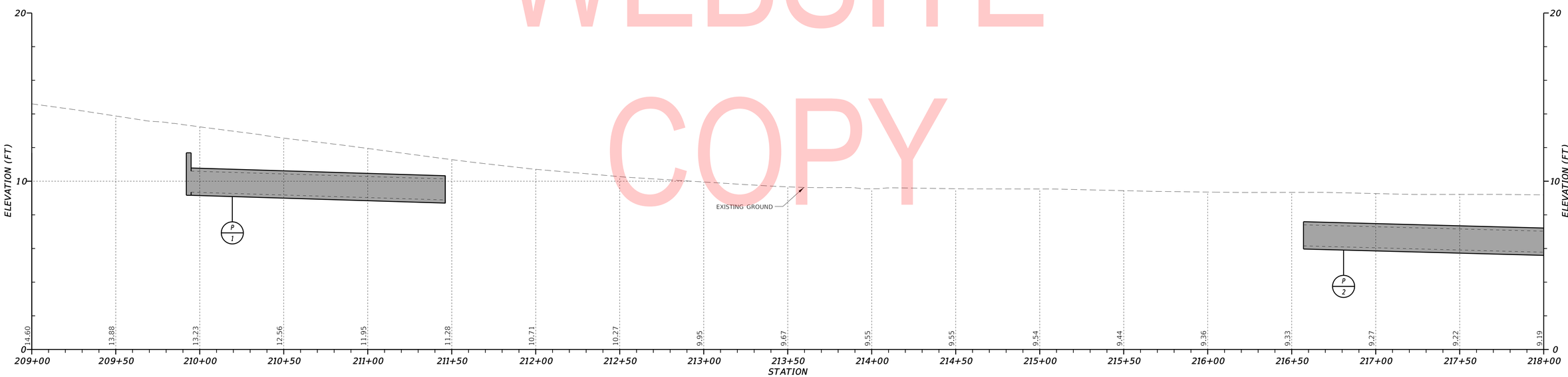
PROFILES

SECTION
PD
SHEET NO.
12

16-AUG-2019
16:56
\\dotfs08\CAD\Active_Designs\SUSSEX\014\road\T201904304\Plans\PF01.dgn



SR 1 SB



SR 1 SB

VERTICAL SCALE FEET 9 6 3 0

NOTE: THE BORING DATA PROVIDED ON THE PROFILE SHEETS INDICATES THE SOIL CONDITION ONLY AT THE SPECIFIC LOCATION EACH BORING WAS PERFORMED AND ONLY TO THE DEPTH PENETRATED.

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J. GAINES

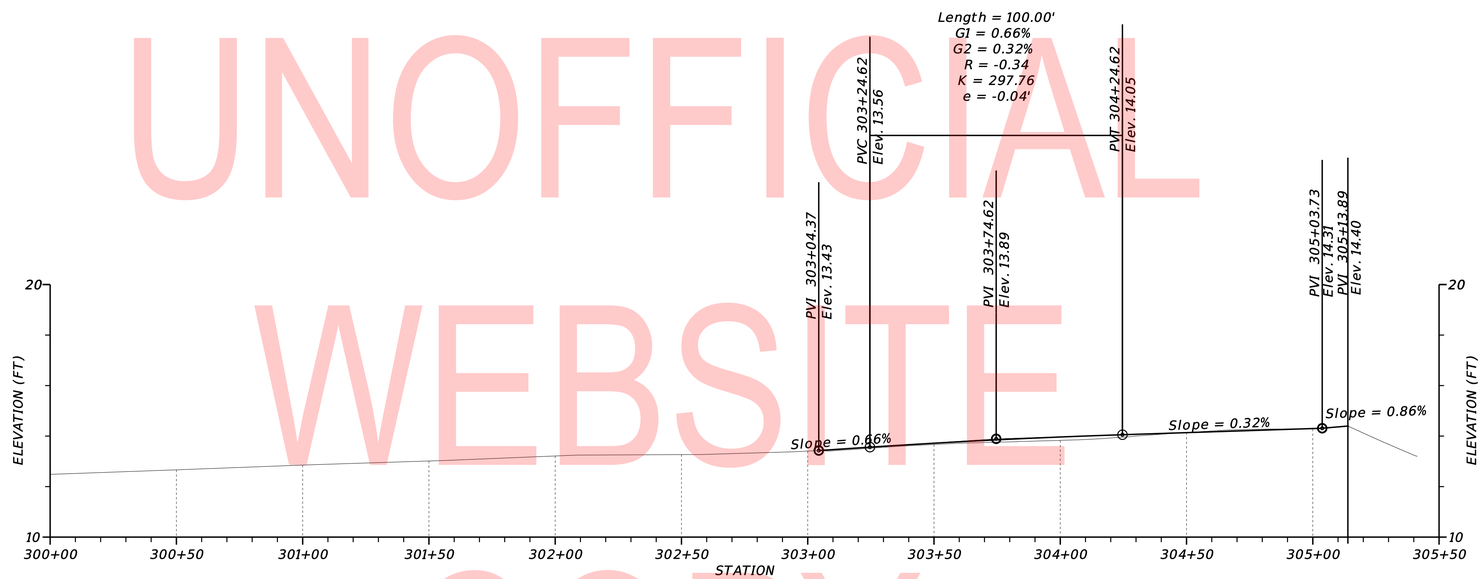
PROFILES

SECTION PD

SHEET NO. 13

16-AUG-2019
16:57
\\dotfs08\CADD\Active_Designs\SUSSEX\014\road\T201904304\Plans\PF01.dgn

UNOFFICIAL WEBSITE COPY



SR 5

UNOFFICIAL WEBSITE COPY

NOTE: THE BORING DATA PROVIDED ON THE PROFILE SHEETS INDICATES THE SOIL CONDITION ONLY AT THE SPECIFIC LOCATION EACH BORING WAS PERFORMED AND ONLY TO THE DEPTH PENETRATED.

VERTICAL SCALE FEET 0 3 6 9

ADDENDA / REVISIONS	

SCALE 0 30 60 90 FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY	CHECKED BY:	J. GAINES
SUSSEX		

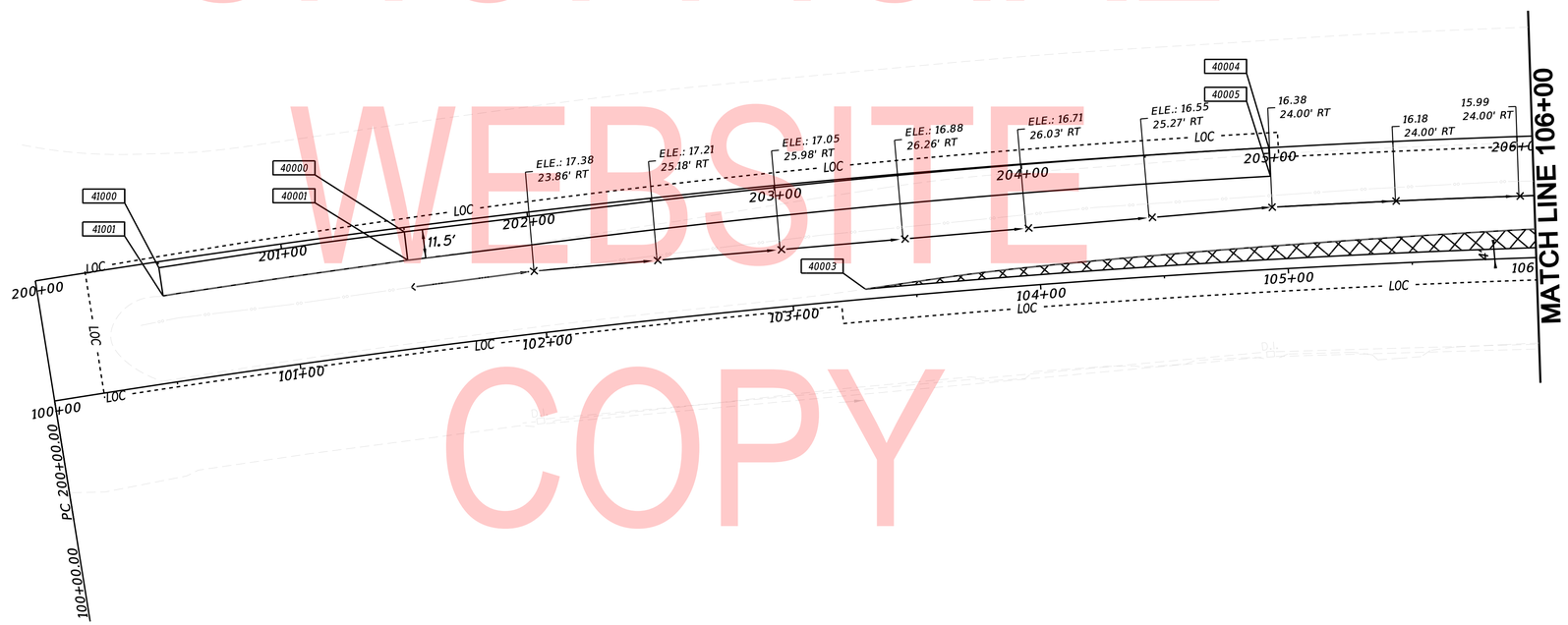
PROFILES

SECTION
PD
SHEET NO.
14

16-AUG-2019
16:58
\\dotfs08\CAD\Active_Designs\SUSSEX\014\road\T201904304\Plans\PF01.dgn

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
40000	201+50.00	1.79'	298586.9609	688102.9288
40001	201+50.00	13.29'	298595.4202	688110.7194
40003	203+33.00	45.00'	298744.0608	688001.2334
40004	205+00.00	0.00'	298831.9218	687853.1339
40005	205+00.00	11.50'	298839.7908	687861.5201
41000	200+50.00	2.41'	298520.4801	688177.5704
41001	205+00.00	13.91'	298529.0997	688185.1828

UNOFFICIAL WEBSITE COPY



NOTES:

1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION BASELINE.

2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN AT THE EDGE OF PAVEMENT.

3. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS ALONG INTERSECTION CURVES ARE GIVEN AT 10 FOOT INTERVALS.

4. RADII ARE GIVEN TO THE EDGE OF PAVEMENT.

5. PROPOSED PAVEMENT OR CURBS THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR EXISTING CURB ELEVATIONS.

6. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J. GAINES

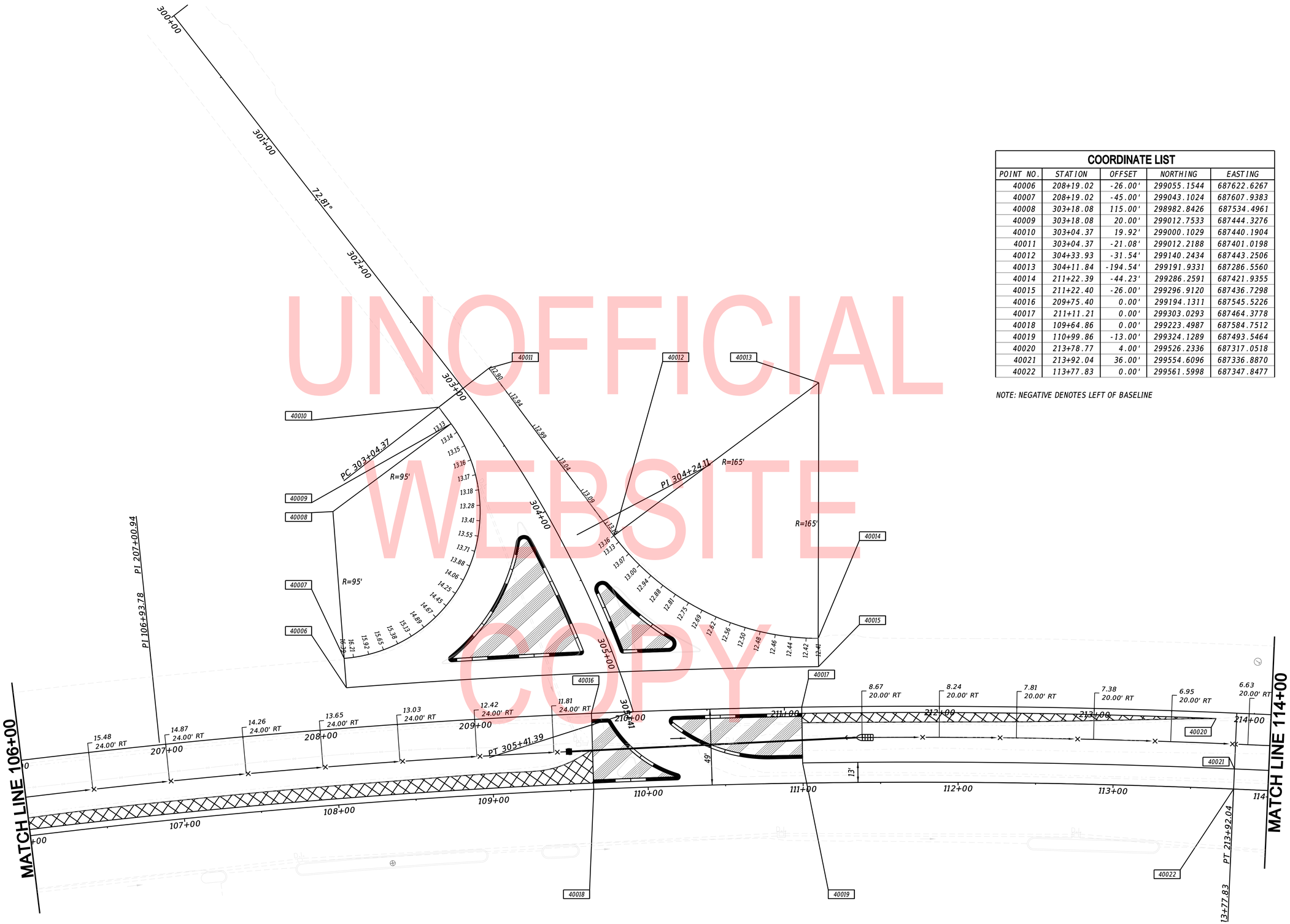
GRADES AND GEOMETRICS

GG-01

SECTION PD

SHEET NO. 15

16-AUG-2019
17:01
\\dotfs08\CADD\Active_Designs\SUSSEX\014\road\T201904304\Plans\GG\GG01.dgn



UNOFFICIAL WEBSITE COPY

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
40006	208+19.02	-26.00'	299055.1544	687622.6267
40007	208+19.02	-45.00'	299043.1024	687607.9383
40008	303+18.08	115.00'	298982.8426	687534.4961
40009	303+18.08	20.00'	299012.7533	687444.3276
40010	303+04.37	19.92'	299000.1029	687440.1904
40011	303+04.37	-21.08'	299012.2188	687401.0198
40012	304+33.93	-31.54'	299140.2434	687443.2506
40013	304+11.84	-194.54'	299191.9331	687286.5560
40014	211+22.39	-44.23'	299286.2591	687421.9355
40015	211+22.40	-26.00'	299296.9120	687436.7298
40016	209+75.40	0.00'	299194.1311	687545.5226
40017	211+11.21	0.00'	299303.0293	687464.3778
40018	109+64.86	0.00'	299223.4987	687584.7512
40019	110+99.86	-13.00'	299324.1289	687493.5464
40020	213+78.77	4.00'	299526.2336	687317.0518
40021	213+92.04	36.00'	299554.6096	687336.8870
40022	113+77.83	0.00'	299561.5998	687347.8477

NOTE: NEGATIVE DENOTES LEFT OF BASELINE

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J. GAINES

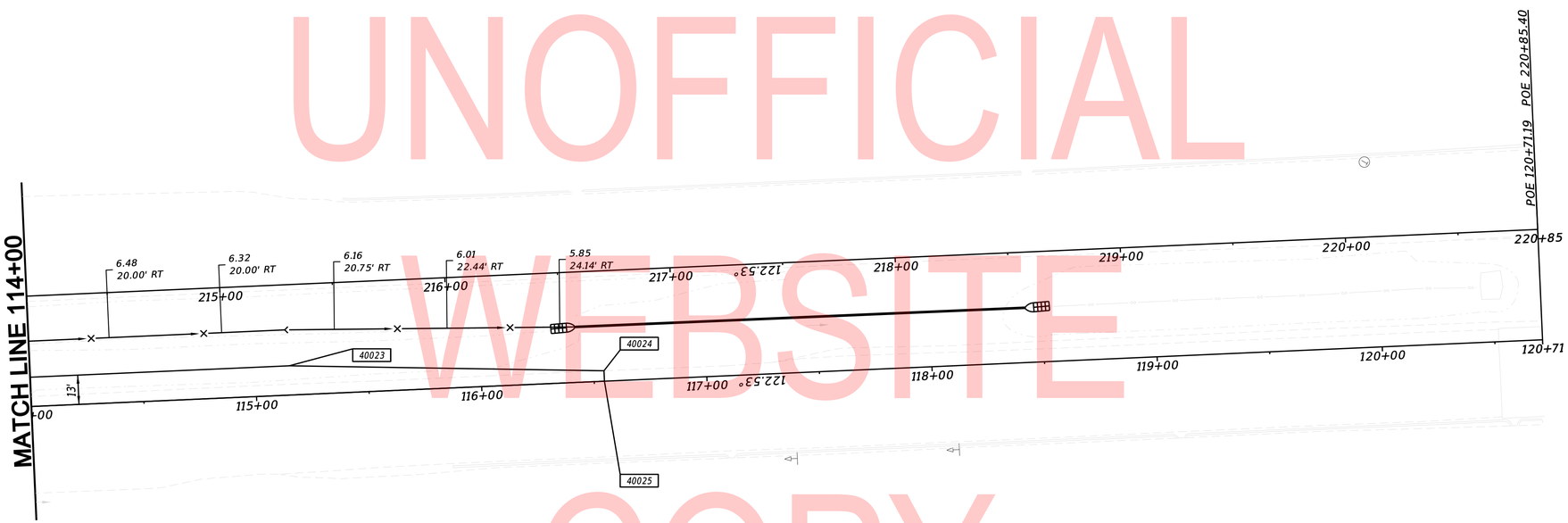
GRADES AND GEOMETRICS

GG-02
SECTION
PD
SHEET NO.
16

16-AUG-2019
17:02
\\dotfs08\CADD\Active_Designs\SUSSEX\014\road\T201904304\Plans\GG\GG02.dgn

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
40023	215+29.36	36.00'	299670.3871	687263.0495
40024	216+68.74	44.36'	299792.4026	687195.1527
40025	209+84.96	4.00'	299204.1469	687542.8906

NOTE: NEGATIVE DENOTES LEFT OF BASELINE



UNOFFICIAL WEBSITE COPY

16-AUG-2019
17:03
\\dotfs08\CADD\Active_Designs\SUSSEX\014\road\T201904304\Plans\GG\GG03.dgn

ADDENDA / REVISIONS	

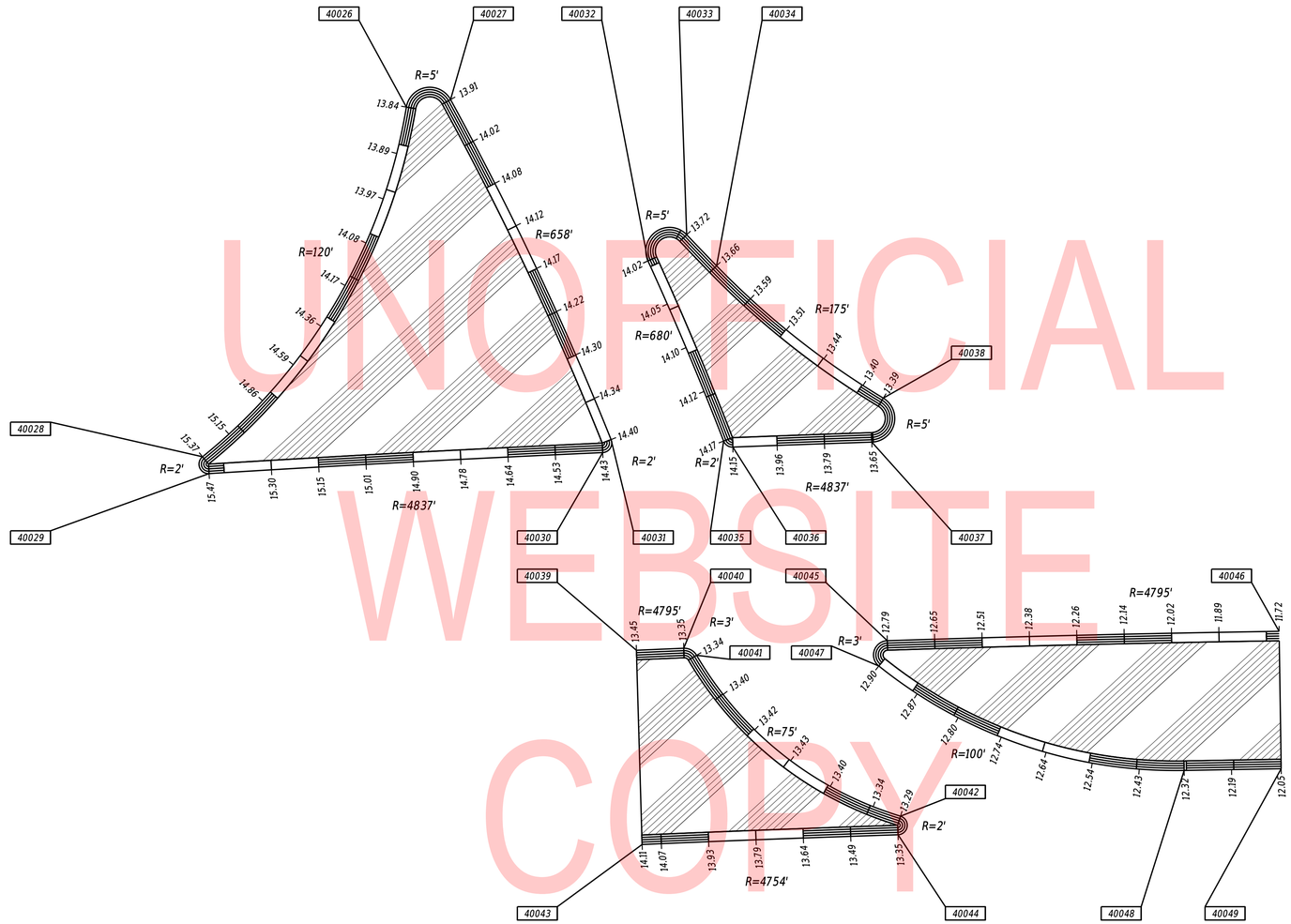
SCALE
0 30 60 90
FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J. GAINES

GRADES AND GEOMETRICS

GG-03
SECTION
PD
SHEET NO.
17



UNOFFICIAL WEBSITE COPY

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
40026	304+08.18	25.93'	299091.0539	687482.6278
40027	304+11.39	17.00'	299097.7759	687475.9831
40028	304+59.30	97.68'	299098.1417	687567.7543
40029	304+63.75	97.89'	299101.3098	687569.8728
40030	304+94.78	19.66'	299166.8096	687818.5930
40031	304+92.83	17.00'	299166.6850	687515.3339
40032	304+60.94	-5.00'	299151.4313	687479.9770
40033	304+59.35	-14.73'	299154.9626	687470.7679
40034	304+67.72	-17.77'	299163.8870	687472.5261
40035	305+01.89	-5.00'	299186.3209	687501.9617
40036	305+03.76	-6.36'	299188.6483	687501.8950
40037	305+12.77	-34.20'	299212.0683	687484.2049
40038	305+05.33	-39.71'	299208.7234	687475.2179
40039	209+75.40	4.00'	299196.5662	687548.6959
40040	209+85.41	4.00'	299204.5059	687542.6163
40041	209+88.06	5.60'	299207.5814	687542.2748
40042	210+30.03	41.11'	299262.3100	687545.4054
40043	209+74.81	45.00'	299221.0632	687581.5782
40044	210+29.38	45.00'	299264.1331	687548.9060
40045	210+28.43	4.00'	299238.7788	687516.6716
40046	211+11.21	4.00'	299305.3737	687467.6188
40047	210+26.47	9.28'	299240.3804	687522.0651
40048	210+90.58	33.01'	299305.8012	687503.1636
40049	211+11.20	33.00'	299322.3646	687491.1201

ADDENDA / REVISIONS

SCALE 0 60 120 180 FEET

SR 1 & SR 5
INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J. GAINES

GRADES AND GEOMETRICS

GG-04
SECTION PD
SHEET NO. 18

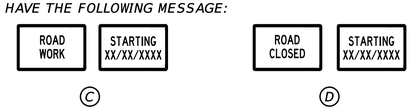
16-AUG-2019
17:04
\\dotfs08\CADD\Active_Designs\SUSSEX\014\road\T201904304\Plans\GG\GG04.dgn

GENERAL MOT NOTES

1. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND LANE SHIFTS SHALL CONFORM TO TYPICAL APPLICATION 33 OF THE DELAWARE MUTCD.
2. THE DISTURBED AREA FOR THIS PROJECT IS 2.33 ACRES.
3. THE ADDITIONAL IMPERVIOUS AREA FOR THIS PROJECT IS 2337 SQUARE FEET.
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

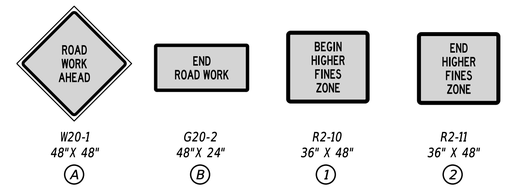
   GRADING AND MAINTAINING BASE COURSE THAT IS BEING USED FOR ROADWAY WEDGE/FILLET BETWEEN TRAVEL LANES AND PAVEMENT BOX, EDGE OF TRAVELWAY, DRIVEWAY OR ENTRANCE ACCESS SHALL BE INCIDENTAL TO ITEM NO. 801000 - MAINTENANCE OF TRAFFIC. THE BASE COURSE MATERIAL SHALL BE PLACED AT NO GREATER THAN THE SLOPE 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. A TYPE II TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE REQUIRED ON THIS PROJECT DURING THE FOLLOWING OPERATIONS: TEMPORARY/PERMANENT PAVEMENT MARKINGS, ROADSIDE SPRAYING, PATCHING, MILLING, SWEEPING, TEMPORARY TRAFFIC BARRIER PLACEMENT OR AS DIRECTED BY THE ENGINEER. THE ROLL AHEAD DISTANCE SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE TMA SHALL CONFORM TO THE REQUIREMENTS OF SECTION 6F OF THE DELAWARE MUTCD.
6. LANE CLOSURES AND ROAD CLOSURES ARE PROHIBITED FROM OCCURRING DURING THE FIREFLY MUSIC FESITVAL EVENT IN DOVER, DE FROM 12:00 AM WEDNESDAY PRIOR TO THE EVENT THROUGH 12:00 AM TUESDAY FOLLOWING THE EVENT. THE ENGINEER WILL PROVIDE THE DATES OF THE EVENT TWO WEEKS PRIOR TO THE RESTRICTION BEING IMPLEMENTED.
7. THE CONTRACTOR SHALL SUPPLY PORTABLE CHANGEABLE MESSAGE BOARDS (PCMS) UNDER ITEM 803001. TWO PCMS WILL BE PLACED ALONG SR 1 NORTHBOUND AND SOUTHBOUND DIRECTIONS PRIOR TO THE WORK AREA AND ONE AT SR 5 NORTHBOUND DIRECTION. PLACEMENT SHALL BE COORDINATED WITH THE DISTRICT SAFETY OFFICER. THE PCMS SHOULD BE PLACED A MINIMUM OF TEN (10) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION TO REMIND TRAVELERS OF PENDING LANE CLOSURES. DISPLAY MESSAGE C FOR TEN (10) DAYS PIOR TO WORK ON SR 1 AND MESSAGE D TEN (10) DAYS PRIOR TO WORK ON SR 5. THE PCMS SIGNS WILL BE PRESENT FIVE (5) DAYS AFTER ANY TRAFFIC PATTERN CHANGES. THE PCMS SHOULD HAVE THE FOLLOWING MESSAGE:



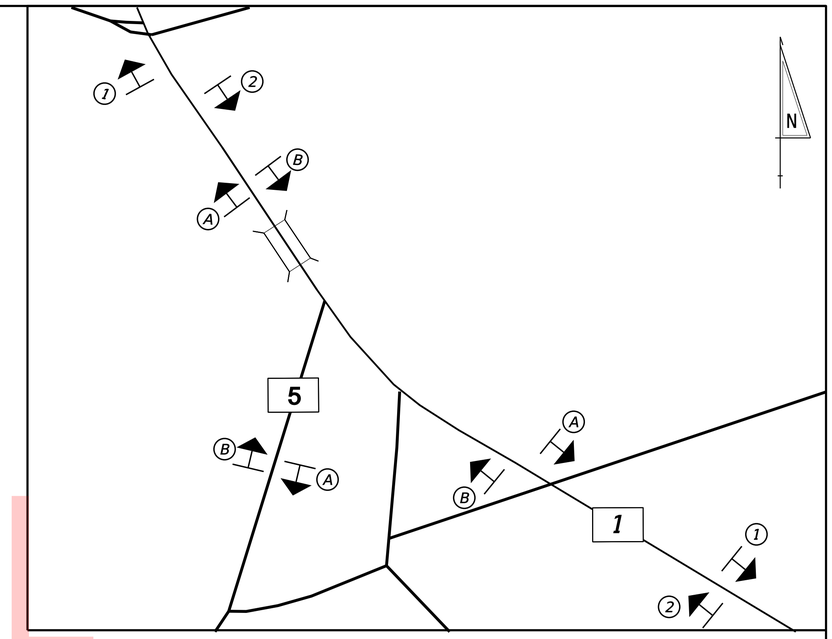
8. THE CONTRACTOR IS RESPOSIBLE FOR MAINTAINANCE OF THE EXISTING PAVEMENT WITHING THE PROJECT LIMITS FOR THE DURATION OF THE CONTRACT AS DIRECTED BY THE ENGINEER. ALL REPAIRS ARE AT THE CONTRACTOR'S EXPENSE AS DIRECTED BY THE ENGINEER.
9. THE ROADWAY AND SHOULDER WORK SHALL BE PERFORMED IN A MANNER SUCH THAT POSITIVE DRAINAGE OF THE ROADWAY SURFACE IS AMINTAINED THROUGHOUT THE CONSTRUCTION. ALL WORK AND MATERIALS TO PROVIDE AND MAINTAIN DRAINAGE SHALL BE INCIDENTAL TO ITEM 801000 - MAINTENANCE OF TRAFFIC.
10.

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

WARNING SIGN LEGEND



EROSION & SEDIMENT CONTROL	
CFL	COMPOST FILTER LOG
CFL	COMPOST FILTER LOG / LENGTH
DWB/AC	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
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	REINFORCED SILT FENCE / LENGTH
RSF	REINFORCED SILT FENCE
SSF	SUPER SILT FENCE / LENGTH
SSF	SUPER SILT FENCE
SP	SUMP PIT
ST	SEDIMENT TRAP / NUMBER
	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN



ALLOWABLE CLOSURES TIMES - SR 1 NB

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

■ ONE LANE CLOSURE
□ NO TRAVEL OR TURN LANE CLOSURES PERMITTED

ALLOWABLE CLOSURES TIMES - SR 1 SB

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

■ ONE LANE CLOSURE
□ NO TRAVEL OR TURN LANE CLOSURES PERMITTED

Vincent W. Davis 08/30/2019
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."

UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS

NOT TO SCALE

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN	SECTION
T201904003	DESIGNED BY:	B. JACKSON		PD
COUNTY				SHEET NO.
SUSSEX	CHECKED BY:	J. GAINES		19

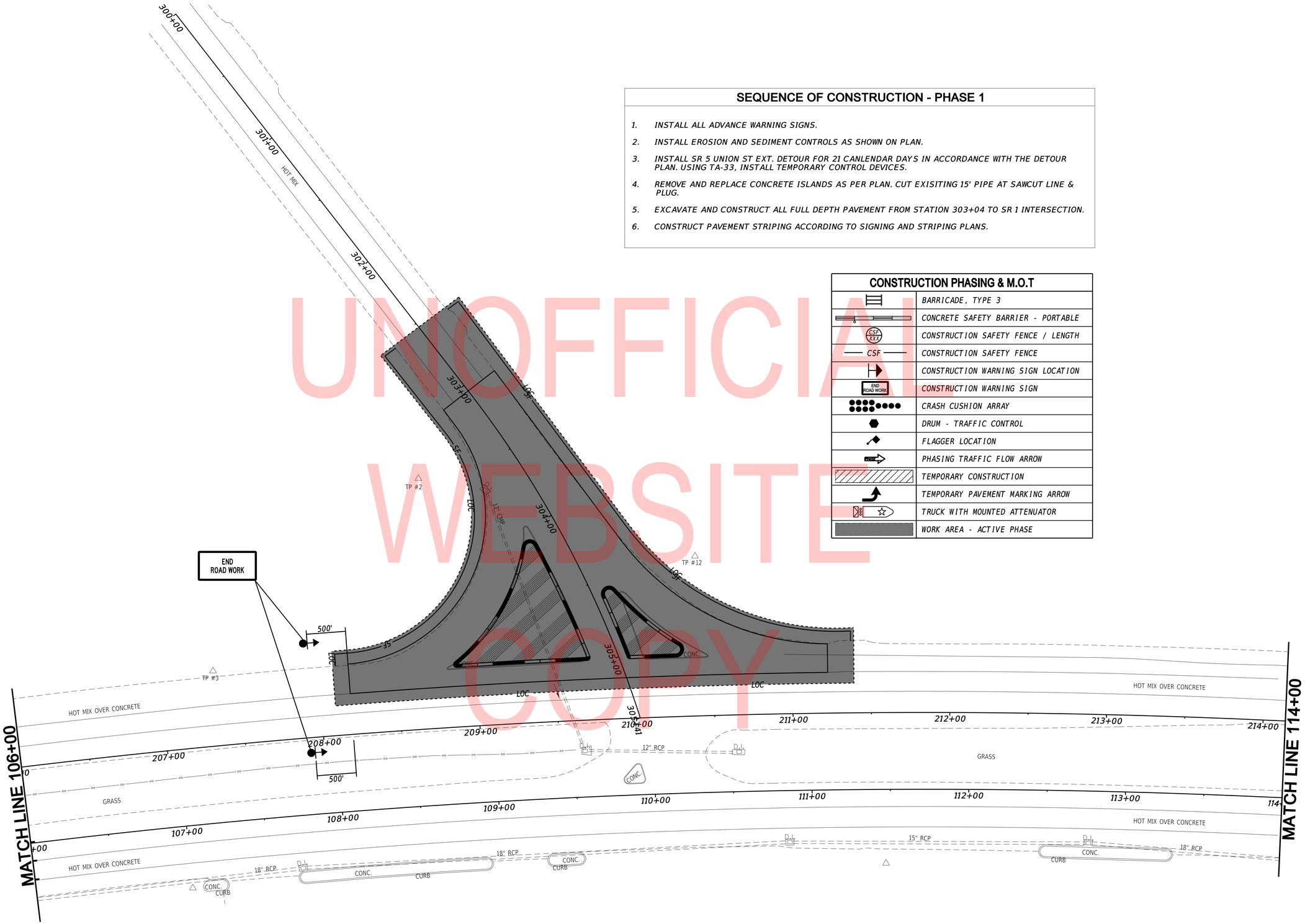
29-AUG-2019
15:25
Y:\SUSSEX\014\roadT20190430\Plans\CS\CS01.dgn

SEQUENCE OF CONSTRUCTION - PHASE 1

1. *INSTALL ALL ADVANCE WARNING SIGNS.*
2. *INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN ON PLAN.*
3. *INSTALL SR 5 UNION ST EXT. DETOUR FOR 21 CANLENDAR DAYS IN ACCORDANCE WITH THE DETOUR PLAN. USING TA-33, INSTALL TEMPORARY CONTROL DEVICES.*
4. *REMOVE AND REPLACE CONCRETE ISLANDS AS PER PLAN. CUT EXISITING 15' PIPE AT SAWCUT LINE & PLUG.*
5. *EXCAVATE AND CONSTRUCT ALL FULL DEPTH PAVEMENT FROM STATION 303+04 TO SR 1 INTERSECTION.*
6. *CONSTRUCT PAVEMENT STRIPING ACCORDING TO SIGNING AND STRIPING PLANS.*

CONSTRUCTION PHASING & M.O.T

	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	*CONSTRUCTION SAFETY FENCE / LENGTH*
CSF	*CONSTRUCTION SAFETY 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



UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS	

SCALE 0 30 60 90 FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J. GAINES

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

SECTION
PD
SHEET NO.
20

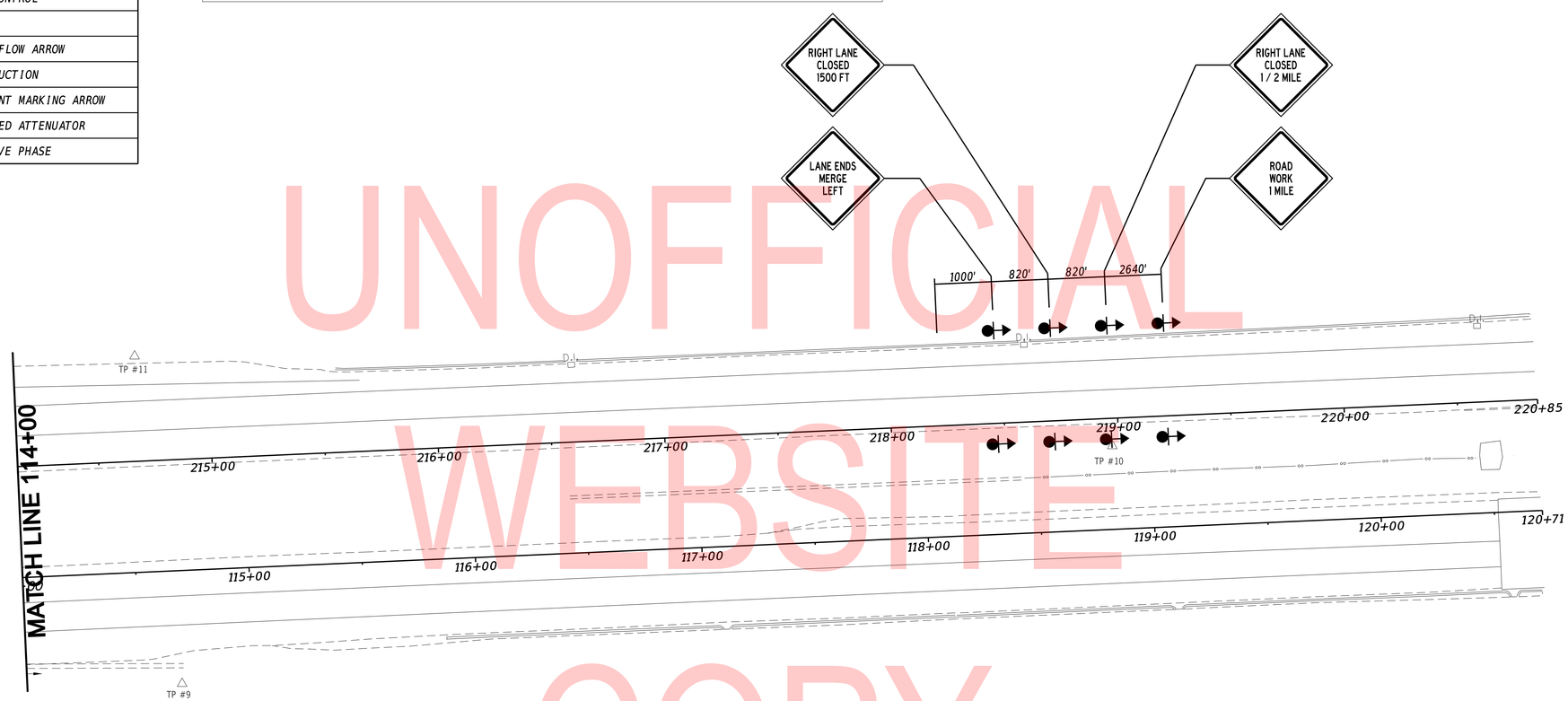
05-SEP-2019
11:25
Y:\SUSSEX\014\road\T201904304\Plans\CS\CS02.dgn

CONSTRUCTION PHASING & M.O.T

	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY 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

SEQUENCE OF CONSTRUCTION - PHASE 1

1. INSTALL ALL ADVANCE WARNING SIGNS.
2. INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN ON PLAN.
3. INSTALL SR 5 UNION ST EXT. DETOUR FOR 21 CANLENDAR DAYS IN ACCORDANCE WITH THE DETOUR PLAN. USING TA-33, INSTALL TEMPORARY CONTROL DEVICES.
4. REMOVE AND REPLACE CONCRETE ISLANDS AS PER PLAN. CUT EXISITING 15' PIPE AT SAWCUT LINE & PLUG.
5. EXCAVATE AND CONSTRUCT ALL FULL DEPTH PAVEMENT FROM STATION 303+04 TO SR 1 INTERSECTION.
6. CONSTRUCT PAVEMENT STRIPING ACCORDING TO SIGNING AND STRIPING PLANS.



UNOFFICIAL WEBSITE COPY

05-SEP-2019
11:26
Y:\SUSSEX\014\road\T201904304\Plans\CS\CS03.dgn

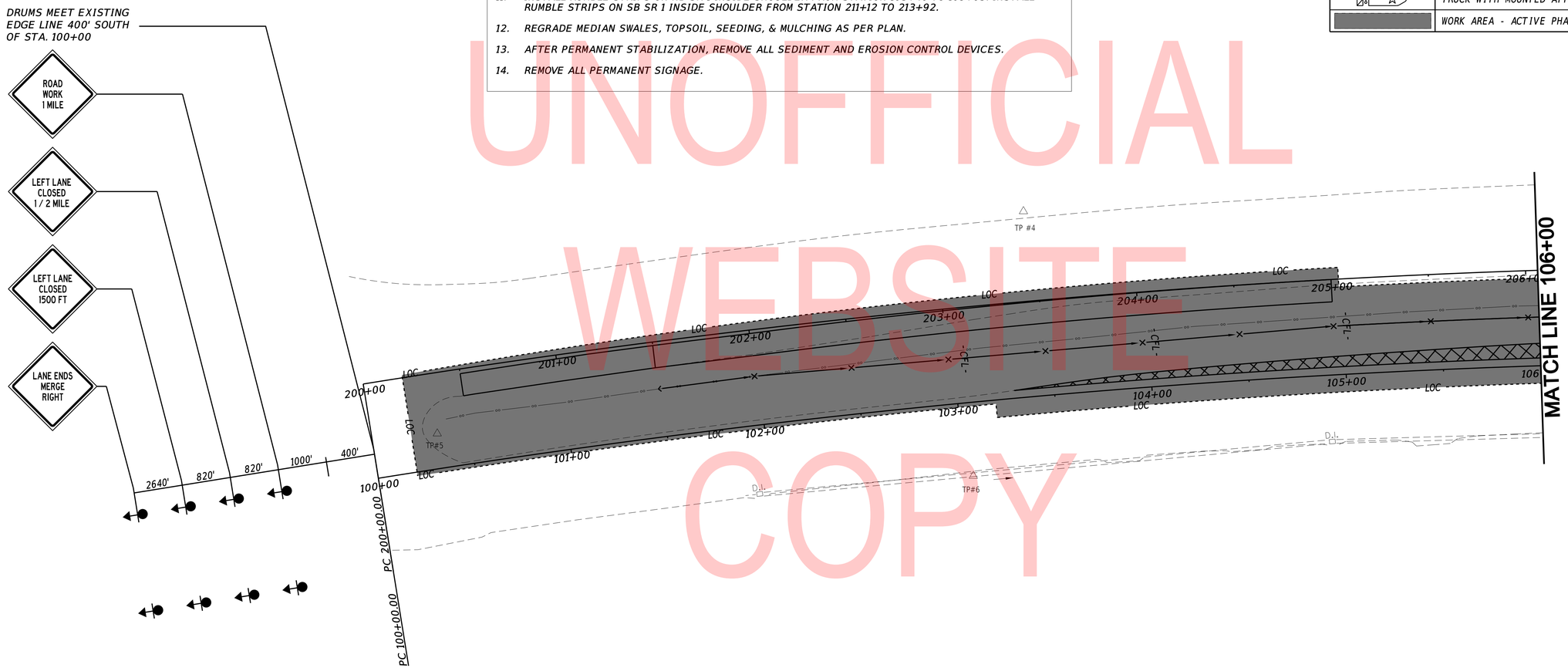
ADDENDA / REVISIONS		SCALE 0 30 60 90 FEET	OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS	CONTRACT T201904003	BRIDGE NO. X	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1	SECTION PD
				COUNTY SUSSEX	DESIGNED BY: B. JACKSON		SHEET NO. 21
					CHECKED BY: J. GAINES		

SEQUENCE OF CONSTRUCTION - PHASE 2

1. INSTALL ALL ADVANCE WARNING SIGNS.
2. INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN ON PLAN. COMPOST FILTER LOGS SHALL EACH BE 6 FEET IN LENGTH.
3. USING TA-33, INSTALL TEMPORARY CONTROL DEVICES.
4. SAWCUT & EXCAVATE FULL DEPTH
5. SAW 15, PIPE AND FILL WITH FLOWABLE FILL
6. INSTALL P.C.C. CURB AND ISLANDS.
7. EXCAVATE AND CONSTRUCT ALL FULL DEPTH HOT MIX ALONG MEDIAN TO TOP OF THE TYPE B LAYER.
8. MILL TURN LANE FROM 200+50 TO 201+50 CONSTRUCT TOP LAYER OF HOT-MIX FOR ALL PAVEMENT SECTION.
9. INSTALL PAVEMENT STRIPING ACCORDING TO SIGNING AND STRIPING PLANS.
10. INSTALL RAISED PAVEMENT MARKERS ON SOLID WHITE LINE BETWEEN ACCELERATION LANE AND NB SR 1 LEFT TRAVEL LANE EVERY 20' FROM STATION 110+73 TO STATION 111+73. INSTALL RAISED PAVEMENT MARKERS ON DOTTED WHITE LINE BETWEEN ACCELERATION LAND AND NB SR 1 LEFT TRAVEL LANE EVERY 48' FROM STATION 111+73 TO 114+00.
11. INSTALL RUMBLE STRIPS ON NB SR 1 INSIDE SHOULDER FROM STATION 103+46 TO 109+65. INSTALL RUMBLE STRIPS ON SB SR 1 INSIDE SHOULDER FROM STATION 211+12 TO 213+92.
12. REGRADE MEDIAN SWALES, TOPSOIL, SEEDING, & MULCHING AS PER PLAN.
13. AFTER PERMANENT STABILIZATION, REMOVE ALL SEDIMENT AND EROSION CONTROL DEVICES.
14. REMOVE ALL PERMANENT SIGNAGE.

CONSTRUCTION PHASING & M.O.T

	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
PHASE	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE



UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS	

SCALE 0 30 60 90 FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J. GAINES

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

SECTION
PD
SHEET NO.
22

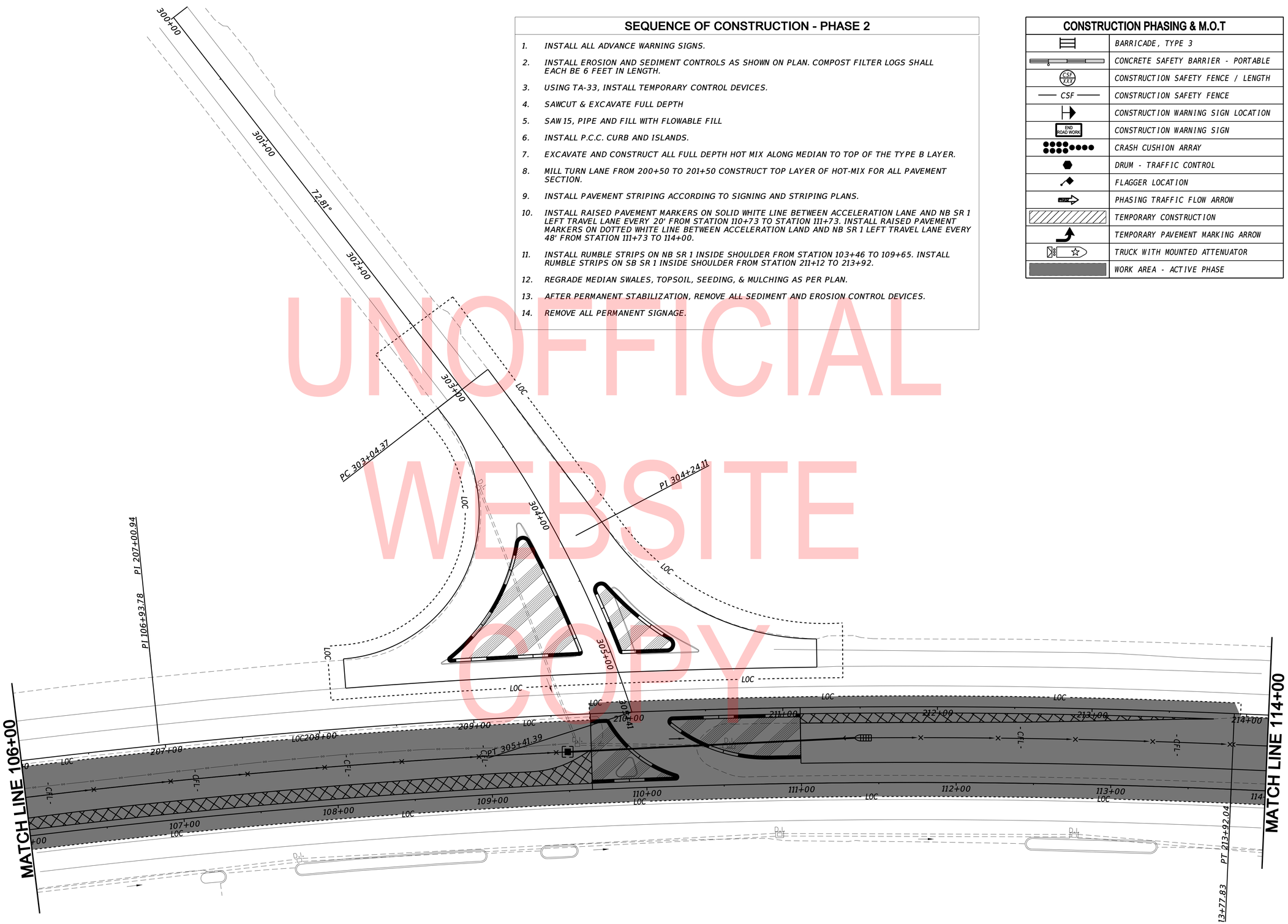
05-SEP-2019
11:46
Y:\SUSSEX\014\road\T201904304\Plans\CS\CS04.dgn

SEQUENCE OF CONSTRUCTION - PHASE 2

1. INSTALL ALL ADVANCE WARNING SIGNS.
2. INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN ON PLAN. COMPOST FILTER LOGS SHALL EACH BE 6 FEET IN LENGTH.
3. USING TA-33, INSTALL TEMPORARY CONTROL DEVICES.
4. SAWCUT & EXCAVATE FULL DEPTH
5. SAW 15, PIPE AND FILL WITH FLOWABLE FILL
6. INSTALL P.C.C. CURB AND ISLANDS.
7. EXCAVATE AND CONSTRUCT ALL FULL DEPTH HOT MIX ALONG MEDIAN TO TOP OF THE TYPE B LAYER.
8. MILL TURN LANE FROM 200+50 TO 201+50 CONSTRUCT TOP LAYER OF HOT-MIX FOR ALL PAVEMENT SECTION.
9. INSTALL PAVEMENT STRIPING ACCORDING TO SIGNING AND STRIPING PLANS.
10. INSTALL RAISED PAVEMENT MARKERS ON SOLID WHITE LINE BETWEEN ACCELERATION LANE AND NB SR 1 LEFT TRAVEL LANE EVERY 20' FROM STATION 110+73 TO STATION 111+73. INSTALL RAISED PAVEMENT MARKERS ON DOTTED WHITE LINE BETWEEN ACCELERATION LAND AND NB SR 1 LEFT TRAVEL LANE EVERY 48' FROM STATION 111+73 TO 114+00.
11. INSTALL RUMBLE STRIPS ON NB SR 1 INSIDE SHOULDER FROM STATION 103+46 TO 109+65. INSTALL RUMBLE STRIPS ON SB SR 1 INSIDE SHOULDER FROM STATION 211+12 TO 213+92.
12. REGRADE MEDIAN SWALES, TOPSOIL, SEEDING, & MULCHING AS PER PLAN.
13. AFTER PERMANENT STABILIZATION, REMOVE ALL SEDIMENT AND EROSION CONTROL DEVICES.
14. REMOVE ALL PERMANENT SIGNAGE.

CONSTRUCTION PHASING & M.O.T

	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
PHASE	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE



UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS	SCALE 0 30 60 90 FEET	OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS	CONTRACT T201904003	BRIDGE NO. X	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 2	SECTION PD
			COUNTY SUSSEX	DESIGNED BY: B. JACKSON		SHEET NO. 23
				CHECKED BY: J. GAINES		

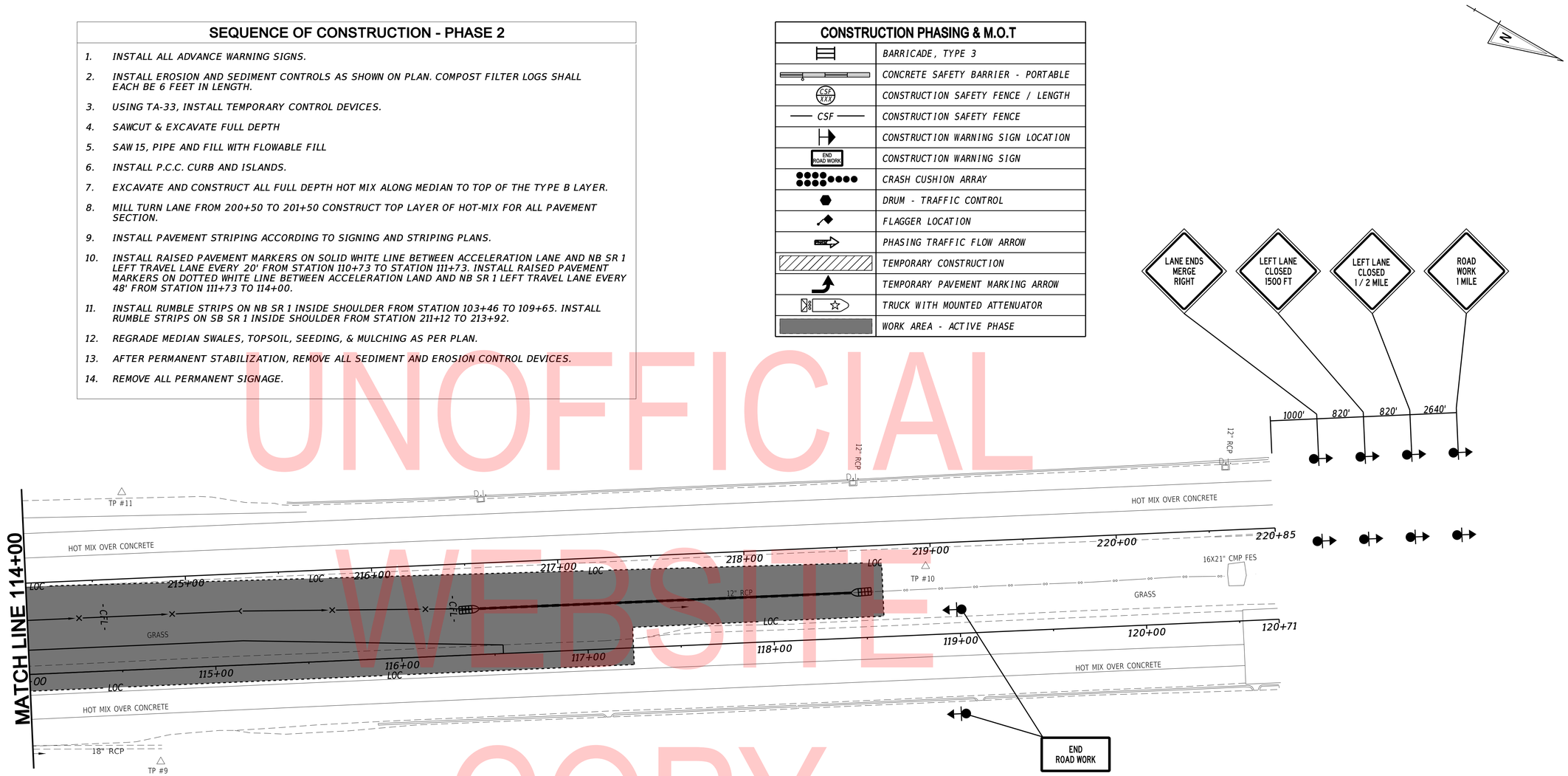
05-SEP-2019
11:50
Y:\SUSSEX\014\road\T201904304\Plans\CS\CS05.dgn

SEQUENCE OF CONSTRUCTION - PHASE 2

1. INSTALL ALL ADVANCE WARNING SIGNS.
2. INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN ON PLAN. COMPOST FILTER LOGS SHALL EACH BE 6 FEET IN LENGTH.
3. USING TA-33, INSTALL TEMPORARY CONTROL DEVICES.
4. SAWCUT & EXCAVATE FULL DEPTH
5. SAW 15, PIPE AND FILL WITH FLOWABLE FILL
6. INSTALL P.C.C. CURB AND ISLANDS.
7. EXCAVATE AND CONSTRUCT ALL FULL DEPTH HOT MIX ALONG MEDIAN TO TOP OF THE TYPE B LAYER.
8. MILL TURN LANE FROM 200+50 TO 201+50 CONSTRUCT TOP LAYER OF HOT-MIX FOR ALL PAVEMENT SECTION.
9. INSTALL PAVEMENT STRIPING ACCORDING TO SIGNING AND STRIPING PLANS.
10. INSTALL RAISED PAVEMENT MARKERS ON SOLID WHITE LINE BETWEEN ACCELERATION LANE AND NB SR 1 LEFT TRAVEL LANE EVERY 20' FROM STATION 110+73 TO STATION 111+73. INSTALL RAISED PAVEMENT MARKERS ON DOTTED WHITE LINE BETWEEN ACCELERATION LAND AND NB SR 1 LEFT TRAVEL LANE EVERY 48' FROM STATION 111+73 TO 114+00.
11. INSTALL RUMBLE STRIPS ON NB SR 1 INSIDE SHOULDER FROM STATION 103+46 TO 109+65. INSTALL RUMBLE STRIPS ON SB SR 1 INSIDE SHOULDER FROM STATION 211+12 TO 213+92.
12. REGRADE MEDIAN SWALES, TOPSOIL, SEEDING, & MULCHING AS PER PLAN.
13. AFTER PERMANENT STABILIZATION, REMOVE ALL SEDIMENT AND EROSION CONTROL DEVICES.
14. REMOVE ALL PERMANENT SIGNAGE.

CONSTRUCTION PHASING & M.O.T

	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
CSF XXX	CONSTRUCTION SAFETY FENCE / LENGTH
CSF	CONSTRUCTION SAFETY 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



UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS	

SCALE 0 30 60 90 FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J. GAINES

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

SECTION
PD
SHEET NO.
24

05-SEP-2019
11:51
Y:\SUSSEX\014\road\T201904304\Plans\CS\CS06.dgn

PORTABLE CHANGEABLE MESSAGE SIGNS

PRIOR TO DETOUR

(10 DAYS PRIOR TO BEGINNING OF DETOUR)

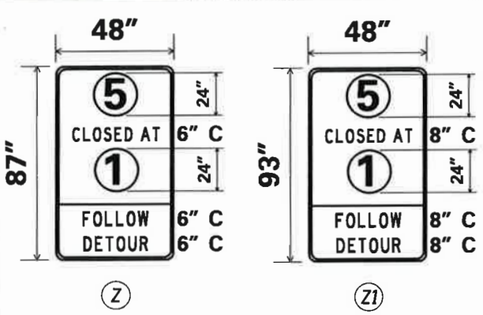
PCMS-1

SR 5	STARTING
TO CLOSE	XX/XX/XX

T1 — ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY — R11-3a

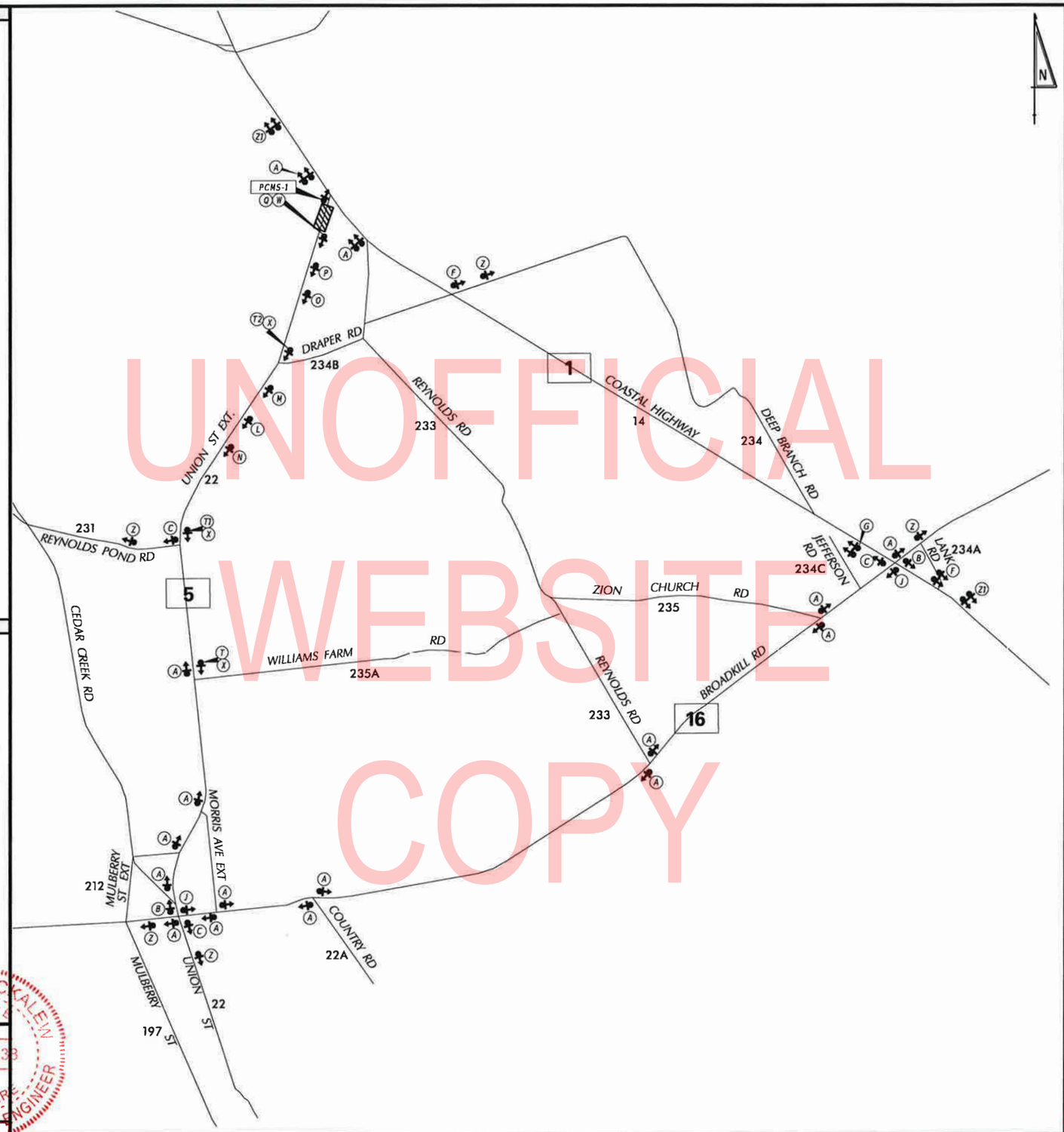
T2 — ROAD CLOSED 1/2 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3a

SPECIAL SIGNS



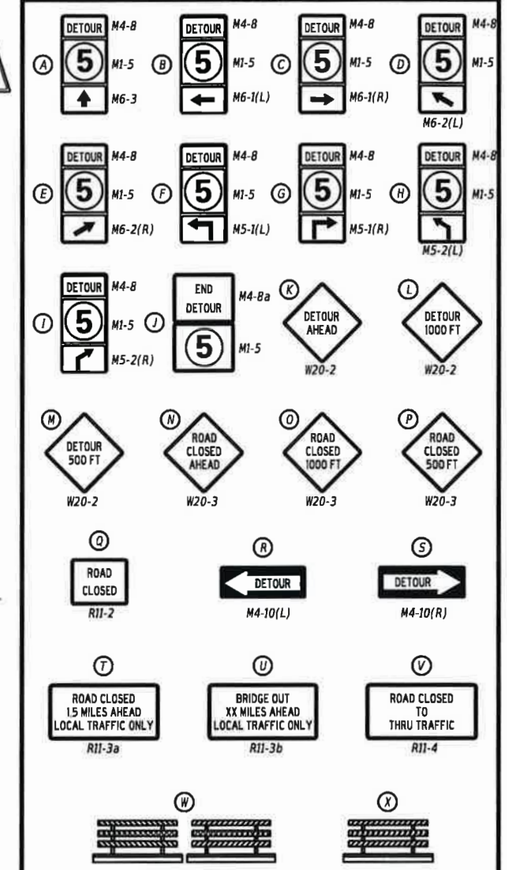
*D/G RETROREFLECTIVE ORANGE BACKGROUND; BLACK LEGEND

*ROUTE SHIELD – WHITE BACKGROUND; BLACK LEGEND



UNOFFICIAL WEBSITE COPY

LEGEND



GENERAL NOTES

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

PREPARED BY
DELDOT - TRANSPORTATION SOLUTIONS
TRAFFIC SAFETY

9/4/19
DATE

THIS SEAL APPLIES TO ALL SHEETS BEARING THE "TS" SECTION DESIGNATION.

MARK S. BUCKALEW — LICENSED — No. 16738 — DELAWARE — PROFESSIONAL ENGINEER
SEAL

CONCURRENCE FOR IMPLEMENTATION

TRAFFIC SAFETY — 9-4-19 — DATE

ADDENDA / REVISIONS

NOT TO SCALE

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

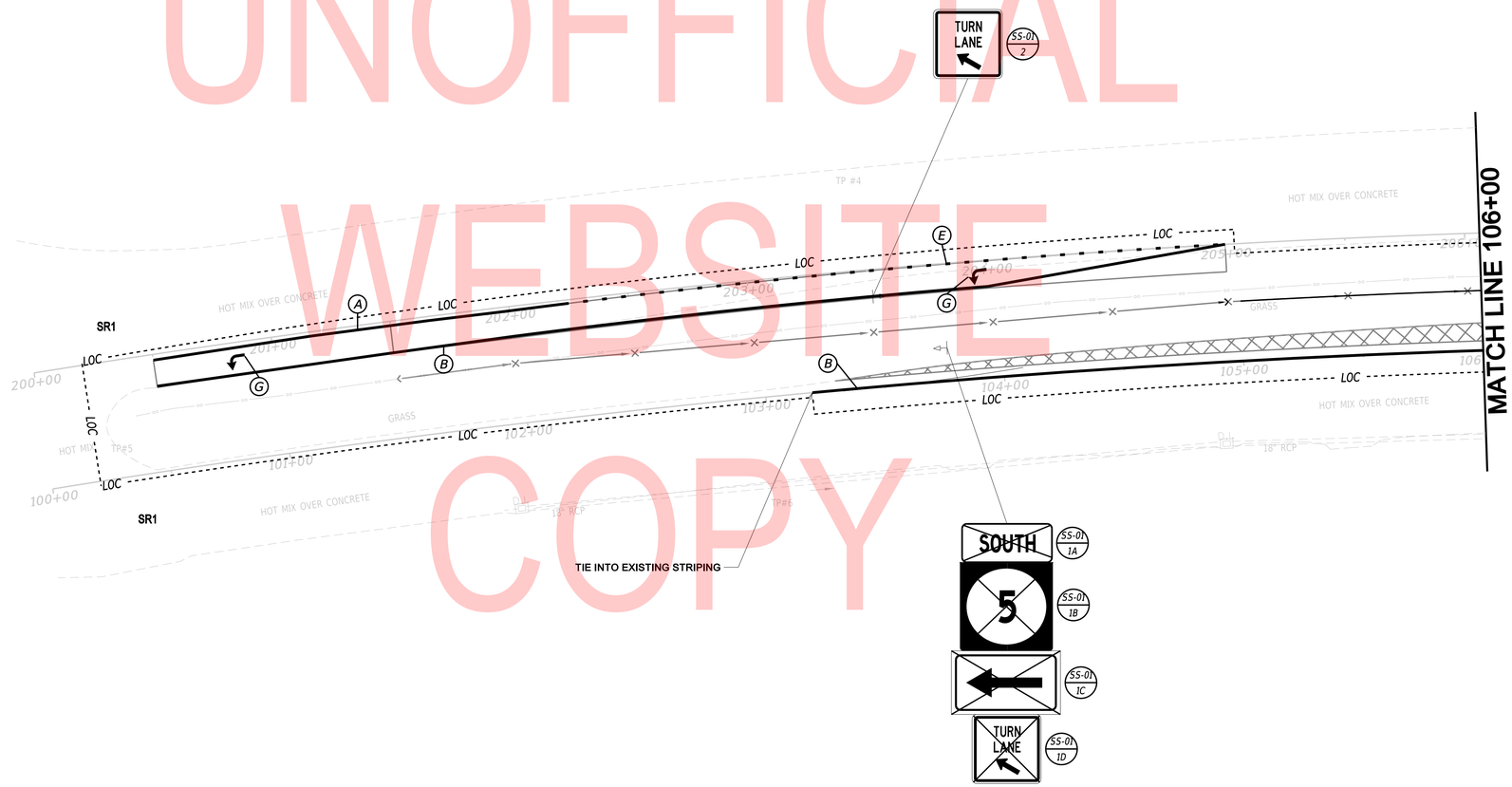
CONTRACT	PERMIT NO.	X
T201904304	DESIGNED BY:	DBW
COUNTY	CHECKED BY:	MSB
SUSSEX		

DETOUR PLAN - VEHICULAR
SR 5 @ SR 1

SECTION	SHEET NO.
TS	X

PAVEMENT MARKINGS LEGEND

SYM	ITEM	QUANTITY
A	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 817013)	175 LF
B	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 817013)	731 LF
E	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 817013)	175 LF
G	ALKYD-THERMOPLASTIC SYMBOL/LEGEND, WHITE (ITEM 817002)	82 SF



UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS	

SCALE 0 30 60 90 FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

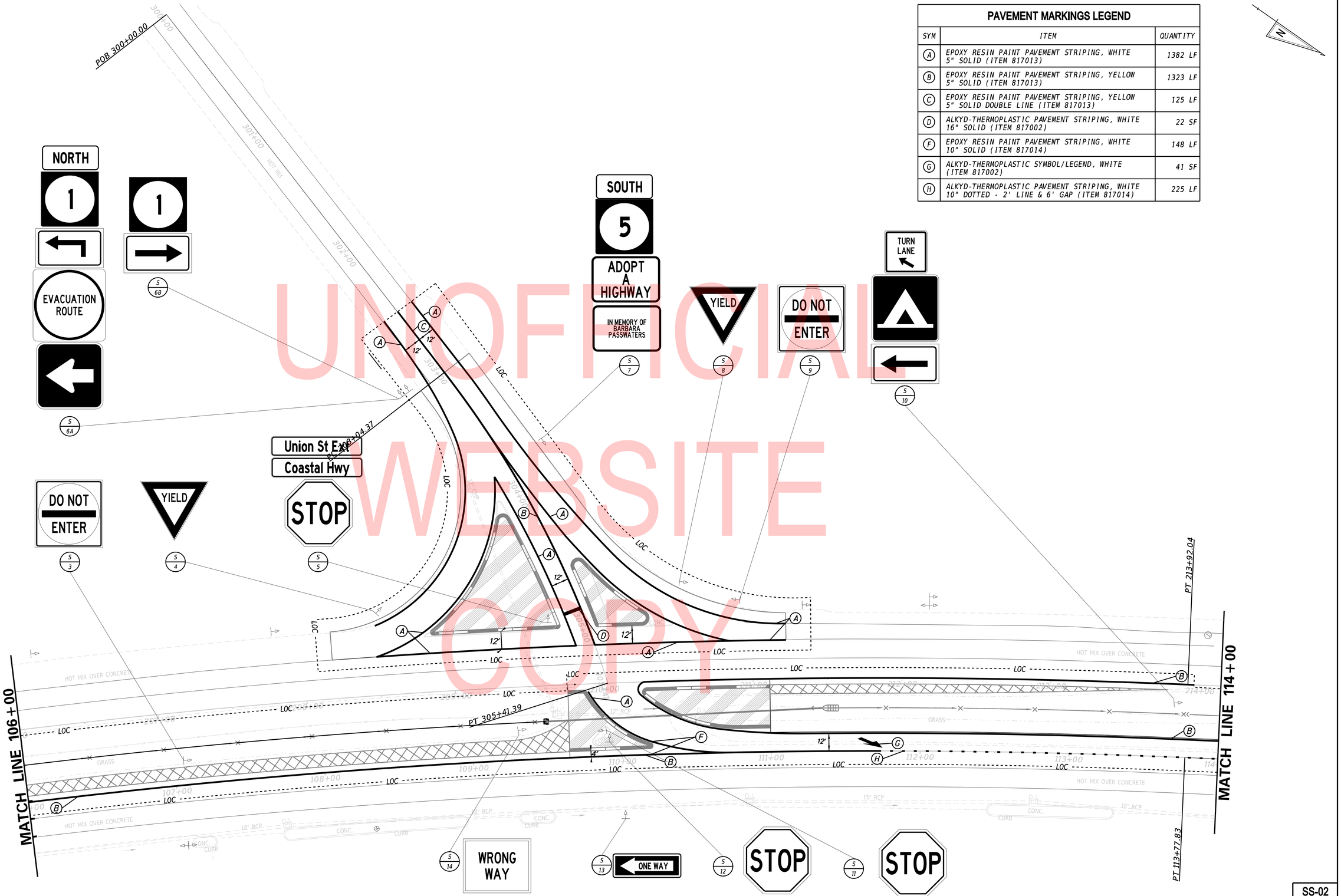
CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY	CHECKED BY:	J. GAINES
SUSSEX		

SIGNING, STRIPING AND CONDUIT PLAN

SS-01
SECTION
PD
SHEET NO.
26

05-SEP-2019
10:20
Y:\SUSSEX\014\roadT\20190430\Plans\SS\SS01.dgn

PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANTITY
A	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 817013)	1382 LF
B	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 817013)	1323 LF
C	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID DOUBLE LINE (ITEM 817013)	125 LF
D	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	22 SF
F	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 10" SOLID (ITEM 817014)	148 LF
G	ALKYD-THERMOPLASTIC SYMBOL/LEGEND, WHITE (ITEM 817002)	41 SF
H	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 10" DOTTED - 2' LINE & 6' GAP (ITEM 817014)	225 LF



UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

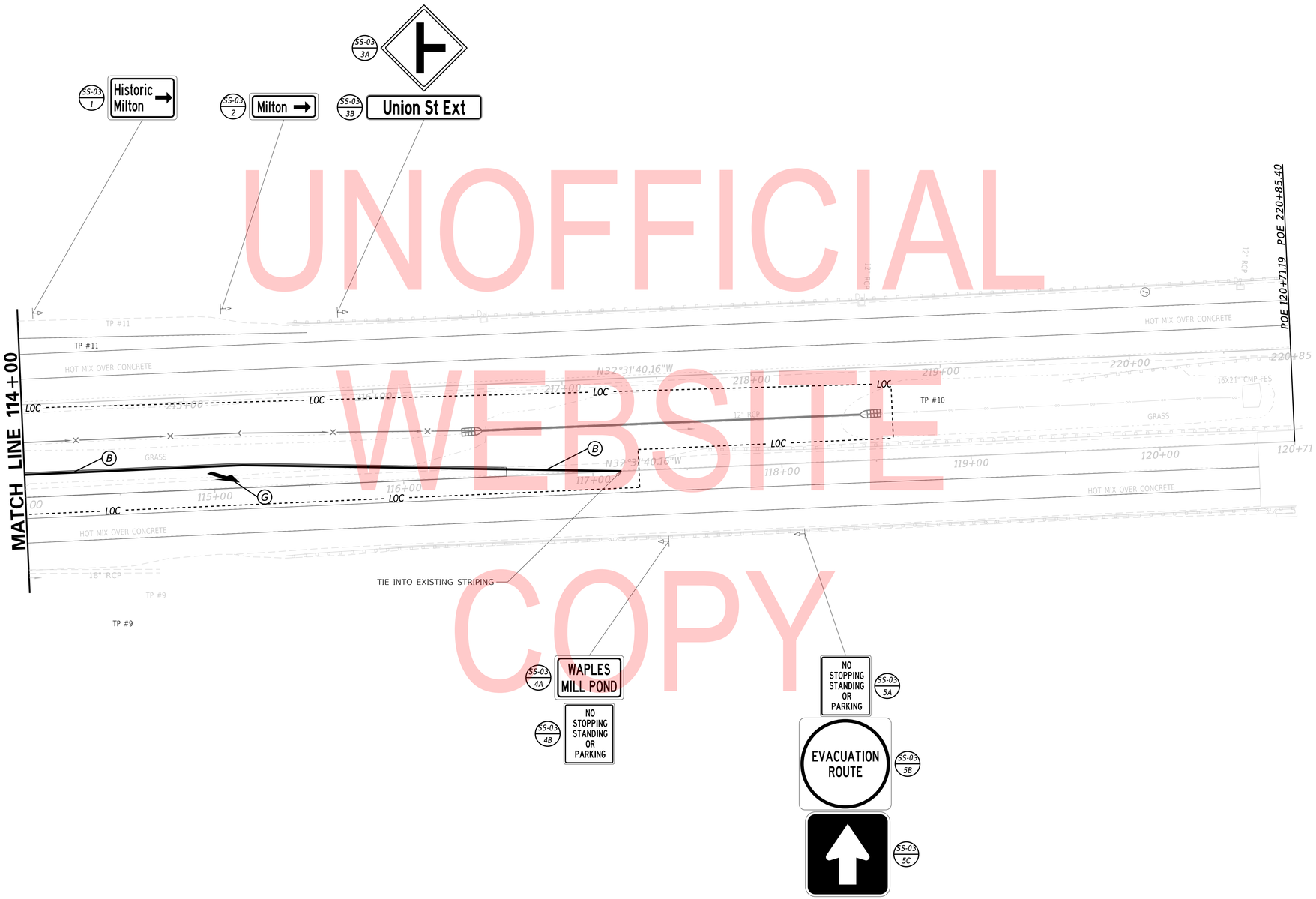
CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J. GAINES

SIGNING, STRIPING AND CONDUIT PLAN

SS-02
SECTION
PD
SHEET NO.
27

05-SEP-2019
12:09
Y:\SUSSEX\014\road\T201904304\Plans\SS\SS02.dgn

PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANTITY
B	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 817013)	316 LF
G	ALKYD-THERMOPLASTIC SYMBOL/LEGEND, WHITE (ITEM 817002)	41 SF



UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS	

SCALE 0 30 60 90 FEET

OPEN-END CONSTRUCTION SERVICES, KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B. JACKSON
COUNTY	CHECKED BY:	J. GAINES
SUSSEX		

SIGNING, STRIPING AND CONDUIT PLAN

SS-03
SECTION
PD
SHEET NO.
28

05-SEP-2019
10:24
Y:\SUSSEX\014\road\T201904304\Plans\SS\SS03.dgn

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) (EACH)	ITEM 819016 4" HOLE, 0-6" (EACH)	ITEM 819017 4" HOLE, >6" (EACH)	REMARKS
								SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL					
SS-1	1A	M3-3(24)	1	CARDINAL DIRECTION - SOUTH - 24x12	24	12		REMOVE	1									
SS-1	1B	M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	24	24		REMOVE	1									Route 5
SS-1	1C	M6-1_L(21)	1	DIRECTIONAL ARROW (Left) - 21x15	21	15		REMOVE	1									
SS-1	1D	R3-20-DE	1	TURN LANE	18	18		REMOVE	1									
SS-1	2	R3-20-DE	1	TURN LANE	18	18		REMAIN										
SS-2	1A	W2-2_R(30)	1	SIDE ROAD (Perpendicular - Right) - 30x30	30	30		REMAIN										
SS-2	1B	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	30	9		REMAIN										Reynolds Rd
SS-2	2	R5-1a(36)	1	WRONG WAY - 36x24	36	24		REMOVE	1									
SS-2	3A	M3-3(24)	1	CARDINAL DIRECTION - SOUTH - 24x12	24	12		REMAIN										
SS-2	3B	M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	24	24		REMAIN										Route 1
SS-2	4	R1-2(48)	1	YIELD	48	48		REMAIN										
SS-2	5A	D3-1(12)	2	STREET NAME (1 Line)	36	12					REMAIN							Union St Ext
SS-2	5B	D3-1(12)	2	STREET NAME (1 Line)	42	12					REMAIN							Coastal Hwy
SS-2	5C	R6-1_R(54)	1	ONE WAY (ENCLOSED IN RIGHT ARROW) - 54x18	54	18	6.8				ADD TO ASSEMBLY		6.8					
SS-2	5D	R1-1(48)	1	STOP	48	48					REMAIN							
SS-2	5E	CUSTOM	1	SINGLE VEHICLE X-OVER	24	24					REMOVE	4.0						
SS-2	5F	R6-3(24)	1	DIVIDED HIGHWAY CROSSING (4 - Legged Intersection) - 24x18	24	18					REMOVE	5.0						
SS-2	6A	M3-1(24)	1	CARDINAL DIRECTION - NORTH - 24x12	24	12					REMAIN							
SS-2	6B	M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	24	24					REMAIN							Route 1
SS-2	6C	M5-1_L	1	ADVANCE TURN ARROW (Left - 90)	21	15					REMAIN							
SS-2	6D	EM-1-DE	1	EVACUATION ROUTE	24	24					REMAIN							
SS-2	6E	M6-1_L(B)	1	DIRECTIONAL ARROW (Left) - 12x12	12	12					REMAIN							Blue sign
SS-2	6F	M3-3(24)	1	CARDINAL DIRECTION - SOUTH - 24x12	24	12					REMAIN							
SS-2	6G	M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	24	24					REMAIN							Route 1
SS-2	6H	M6-1_R(21)	1	DIRECTIONAL ARROW (Right) - 21x15	21	15					REMAIN							
SS-2	7A	M3-3(24)	1	CARDINAL DIRECTION - SOUTH - 24x12	24	12		REMAIN										
SS-2	7B	M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	24	24		REMAIN										Route 5
SS-2	7C	D14-3-DE	1	ADOPT A HIGHWAY	36	24	6.0	RENEW	1	1								
SS-2	8	R1-2(48)	1	YIELD	48	48		REMAIN										
SS-2	9A	R5-1(30)	1	DO NOT ENTER - 30x30	30	30		REMOVE	1									
SS-2	9B	R5-1(36)	1	DO NOT ENTER - 36x36	36	36	9.0	ADD TO ASSEMBLY		1								
SS-2	10A	R3-20-DE	1	TURN LANE	18	18		REMAIN										
SS-2	10B	D9-3(24)	1	CAMPING (Symbol) - 24x24	24	24		REMAIN										
SS-2	10C	M6-1_R(24)	1	DIRECTIONAL ARROW (Right) - 24x6	24	6		REMOVE	1									Blue sign
SS-2	10D	M6-1_R(21)	1	DIRECTIONAL ARROW (Right) - 21x15	21	15	2.2	ADD TO ASSEMBLY		1								Blue sign
SS-2	11	D2-3	1	DISTANCE (3 Line)	66	54	24.8				RENEW	24.8	24.8					Lewes 9, Rehoboth Beach 12, Ocean City 30
SS-2	12A	M3-3(24)	1	CARDINAL DIRECTION - SOUTH - 24x12	24	12					REMAIN							
SS-2	12B	M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	24	24					REMAIN							Route 1
SS-2	12C	M6-3(21)	1	DIRECTIONAL ARROW (Up) - 21x15	21	15					REMAIN							
SS-2	12D	M3-3(24)	1	CARDINAL DIRECTION - SOUTH - 24x12	24	12					REMAIN							
SS-2	12E	M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	24	24					REMAIN							Route 5
SS-2	12F	M6-1_R(21)	1	DIRECTIONAL ARROW (Right) - 21x15	21	15					REMAIN							
SS-2	12G	R5-1a(36)	1	WRONG WAY - 36x24	36	24					REMAIN							
SS-2	13	R5-1a(36)	1	WRONG WAY - 36x24	36	24	6.0	NEW		1				SOIL	1			
SS-2	14A	R5-1(36)	1	DO NOT ENTER - 36x36	36	36	9.0	NEW		1				SOIL	1			
SS-2	14B	R3-2(36)	1	LEFT TURN PROHIBITION (Symbol) - 36x36	36	36	9.0	ADD TO ASSEMBLY		1								
SS-2	15A	D9-3(24)	1	CAMPING (Symbol) - 24x24	24	24		REMAIN										
SS-2	15B	M6-1_R(24)	1	DIRECTIONAL ARROW (Right) - 24x6	24	6		REMOVE	1									Blue sign
SS-2	15C	M6-1_R(21)	1	DIRECTIONAL ARROW (Right) - 21x15	21	15	2.2	ADD TO ASSEMBLY		1								Blue sign
SS-2	15D	R5-1a(36)	1	WRONG WAY - 36x24	36	24		REMOVE	1									
SS-2	16	R5-1(30)	1	DO NOT ENTER - 30x30	30	30		REMOVE	1									
SS-2	17	R6-1_R(36)	1	ONE WAY (ENCLOSED IN RIGHT ARROW) - 36x12	36	12		REMOVE	1									
SS-2	18	R1-1(36)	1	STOP	36	36		REMOVE	1									
SS-2	19	R1-1(36)	1	STOP	36	36		REMOVE	1									
SS-3	1	D1-2	1	DESTINATION (2 Line)	48	30	10.0				RENEW	10.0	10.0					Historic Milton, Brown sign
SS-3	2	D1-1	1	DESTINATION (1 Line)	48	18					REMAIN							Milton ->
SS-3	3A	W2-2_R(30)	1	SIDE ROAD (Perpendicular - Right) - 30x30	30	30		REMAIN										
SS-3	3B	M6-1_L(24)	1	ADVANCE STREET NAME (1 - line plaque)	30	9		REMAIN										Union St Ext
SS-3	4A	I-3(18)	1	GEOGRAPHICAL FEATURES	36	16		REMAIN										Warples Mill Pond
SS-3	4B	R7-4-DE(18)	1	NO STOPPING, STANDING, OR PARKING - 18x24	18	24		REMAIN										
SS-3	5A	R7-4-DE(18)	1	NO STOPPING, STANDING, OR PARKING - 18x24	18	24	3.0	RENEW	1	1								
SS-3	5B	EM-1-DE	1	EVACUATION ROUTE	24	24	4.0	RENEW	1	1								
SS-3	5C	M6-3(B)	1	DIRECTIONAL ARROW (Up) - 12x12	12	12		REMAIN										Blue sign
				JOB TOTALS			92		16	9		44	42		2	0	0	

UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS

NOT TO SCALE

OPEN-END CONSTRUCTION SERVICES , KENT & SUSSEX COUNTIES TASK 3 - SR1 & SR5 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	X
T201904003	DESIGNED BY:	B.JACKSON
COUNTY		
SUSSEX	CHECKED BY:	J.GAINES

SIGNING, STRIPING AND CONDUIT PLAN

SS-04

SECTION: PD

SHEET NO. 29

16-AUG-2019 17:21 \\dotfs08\CADD\Active_Designs\SUSSEX\014\road\T201904304\Plans\SSSS04.dgn