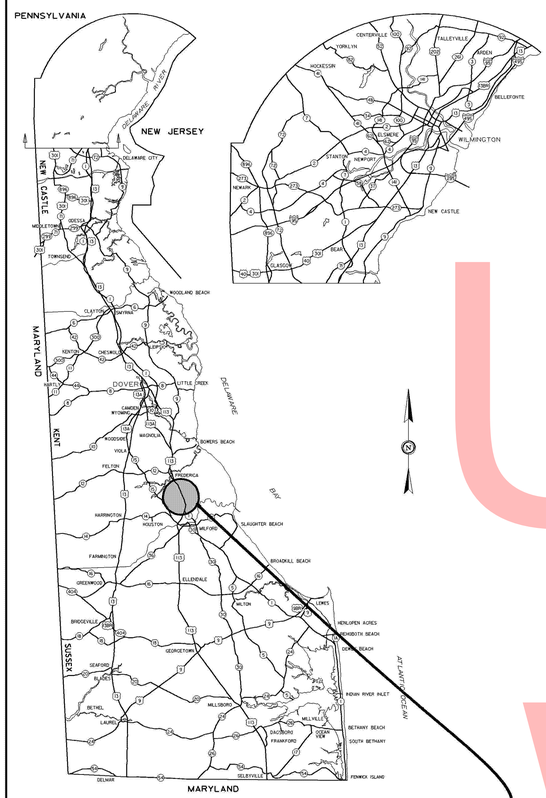


GENERAL LOCATION OF CONTRACT

THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY UNITS

FINAL PLANS

CONSTRUCTION PLANS FOR:

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

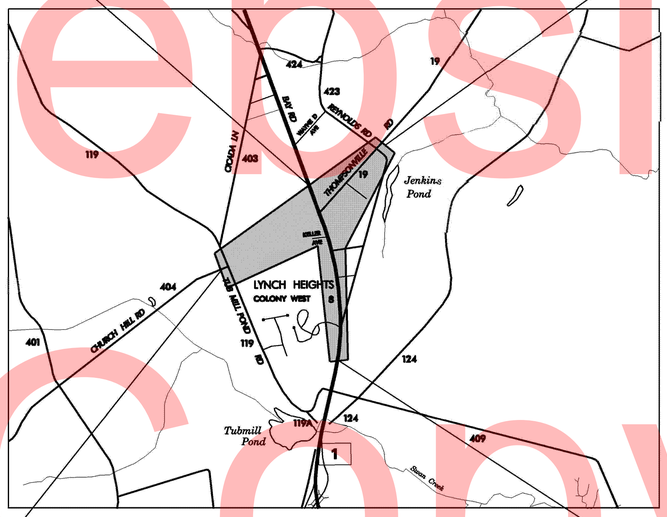
CONTRACT NUMBER: T200412201

FEDERAL AID PROJECT NUMBER: NH-K008(5)

COUNTY: KENT M.R. #: 008

END CONTRACT STATION 323+65

LIMIT OF CONTRACT STATION 248+00



LOCATION MAP
NOT TO SCALE

LIMIT OF CONTRACT STATION 204+00

BEGIN CONTRACT STATION 22+00

DESIGN DESIGNATION

RAMPS	FUNCTIONAL CLASS: RURAL ARTERIAL RAMPS		D.H.V. PROJECTED: 200	YEAR: 2030	
	TYPE OF CONSTRUCTION: NEW		DESIGN SPEED: 30 M.P.H.		
	A.A.D.T. CURRENT: 0	YEAR: 2006	TRUCKS: 10 % %		
	A.A.D.T. PROJECTED: 2000	YEAR: 2030	DIRECTION OF DISTRIBUTION: 60 %%		
DEL. THOMP. RD.	FUNCTIONAL CLASS: MAJOR COLLECTOR		D.H.V. PROJECTED: 600	YEAR: 2030	
	TYPE OF CONSTRUCTION: NEW		DESIGN SPEED: 55 M.P.H.		
	A.A.D.T. CURRENT: 0	YEAR: 2006	TRUCKS: 15 %		
	A.A.D.T. PROJECTED: 6000	YEAR: 2030	DIRECTION OF DISTRIBUTION: 60 %		

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TOTAL SHEETS: 183

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME

PREPARED BY
THE CONSULTING FIRM OF

SEAL

RECOMMENDED _____ DATE _____

RECOMMENDED

Brian C. Van Hill — 8/7/14
SQUAD MANAGER, CONSTRUCTION — DATE

Stephen F. Dalton — 8/6/14
GROUP ENGINEER, CONSTRUCTION — DATE

John A. Sergovic — 8/6/14
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS (CONSTRUCTION) — DATE

RECOMMENDED
Vincent W. Davis
STORMWATER ENGINEER
DATE 14 JUL 2014
VINCENT W. DAVIS REGISTERED No. 12898 DELAWARE PROFESSIONAL ENGINEER
SEAL

RECOMMENDED
B. Thad McIlvaine
SQUAD MANAGER, TRANSPORTATION SOLUTIONS (PROJECT DEVELOPMENT OR BRIDGE DESIGN)
DATE JULY 17, 2014
B. THAD MCILVAINE REGISTERED No. 13178 DELAWARE PROFESSIONAL ENGINEER
SEAL

RECOMMENDED
BRIDGE DESIGN ENGINEER
DATE 22 JULY 2014
JASON N. HASTINGS REGISTERED No. 19545 DELAWARE PROFESSIONAL ENGINEER
SEAL

RECOMMENDED
GROUP ENGINEER, PROJECT DEVELOPMENT
DATE JULY, 29 2014
JAMES M. SATTERFIELD LICENSED No. 10391 DELAWARE PROFESSIONAL ENGINEER
SEAL

RECOMMENDED
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS
DATE 8/7/14
MICHAEL H. SIMMONS REGISTERED No. 8211 DELAWARE PROFESSIONAL ENGINEER
SEAL

APPROVED
CHIEF ENGINEER
DATE 8/8/14
ROBERT BRIAN MCCLARY REGISTERED No. 8567 DELAWARE PROFESSIONAL ENGINEER
SEAL

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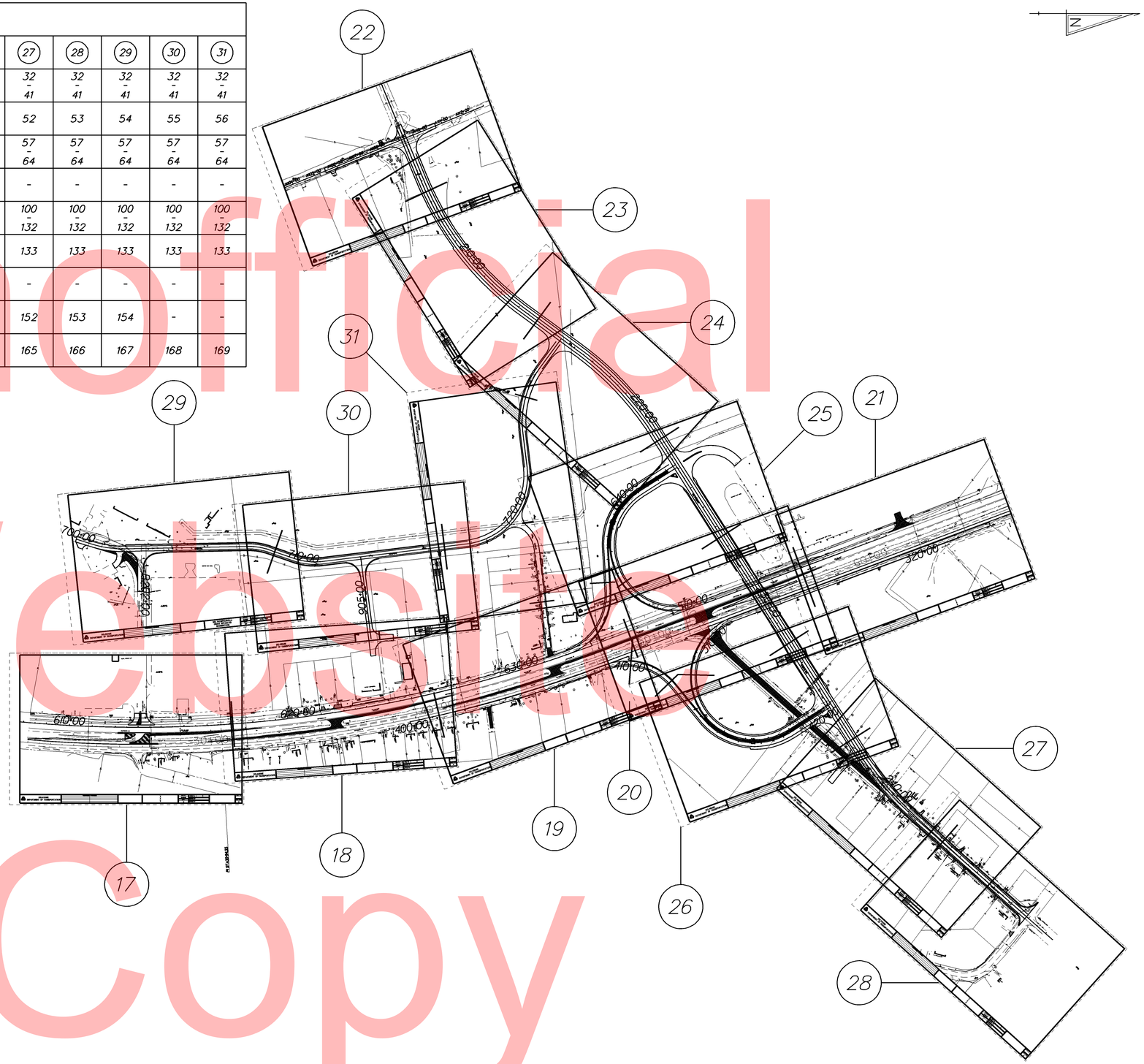

Unofficial Website Copy

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201 / COUNTY KENT	BRIDGE NO. X / DESIGNED BY: MATTHEW VINCENT / CHECKED BY:
PLAN SHEET INDEX					SHEET NO. 2 / TOTAL SHTS. 183

EXISTING SYMBOLS

DRAINAGE

	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
C.B. / D.I.	DRAINAGE INLET
J.B.	DRAINAGE JUNCTION BOX
Ⓓ	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
Ⓔ	ELECTRIC MANHOLE
EM	ELECTRIC METER
E	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
Ⓖ	GAS MANHOLE
G.M.	GAS METER
G.V.	GAS VALVE
G.P.	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
Ⓢ	SANITARY SEWER MANHOLE
S.V.	SANITARY SEWER VALVE
VENT	SANITARY SEWER VENT OR CLEANOUT
S.D.F.	SEPTIC DRAIN FIELD
B	TELEPHONE BOOTH
Ⓣ	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

KCS-FM	KENT COUNTY SEWER FORCE MAIN
VER-T	VERIZON TELEPHONE
COM-CATV	COMCAST CABLE TV
COM-W	CITY OF MILFORD WATER
DEC-E	DELAWARE ELECTRIC CO-OP LINE
EX-SIG	DELDOT SIGNAL CONDUIT

PROPOSED SYMBOLS

CONSTRUCTION

	CONCRETE SAFETY BARRIER - PERMANENT
BFS	BIOFILTRATION SWALE
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	BRICK PATTERNED SURFACE
	BUTT JOINT
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
CZ	CLEAR ZONE
	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
HC	HORIZONTAL CLEARANCE
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
LOC	LIMIT OF CONSTRUCTION
	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH
	SOIL, RETENTION, BLANKET MULCH, TYPE 4
	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
CR	CURB RAMP / TYPE
CR-W	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
FT 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
RM C	REMOVE BY 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
	CCTV CAMERA
	CONDUIT JUNCTION WELL
TCR	CONDUIT RUN
JW	JUNCTION WELL / TYPE
LSR	LIGHTING SERVICE RUN
LST	LIGHTING STANDARD
	LUMINAIRE
P	METER PEDESTAL
	MICROWAVE RADAR DETECTION
	PAVEMENT MARKINGS
	PAVEMENT STRIPING
	TRAFFIC SIGN

PAVEMENT SECTION(S)

	MILL AND OVERLAY SEE TYPICAL SECTIONS
	NEW CONSTRUCTION-FULL DEPTH SEE TYPICAL SECTIONS
	DRIVEWAY: 2" SUPERPAVE, TYPE C HOT-MIX 8" GABC, TYPE B

ITMS LEGEND

CA X	PROPOSED CABINET BASE IDENTIFIER (X = TYPE OF CABINET BASE)
CA X	EXISTING CABINET BASE IDENTIFIER (X = TYPE OF CABINET BASE)
CO X	PROPOSED CONDUIT RUN IDENTIFIER (X = CONDUIT RUN NUMBER)
CO X	EXISTING CONDUIT RUN IDENTIFIER (X = CONDUIT RUN NUMBER)
COB X	PROPOSED CONDUIT IN BARRIER ID (X = CONDUIT RUN NUMBER)
COB X	EXISTING CONDUIT IN BARRIER ID (X = CONDUIT RUN NUMBER)
JW X	PROPOSED JUNCTION WELL IDENTIFIER (X = TYPE OF JUNCTION WELL)
JW X	EXISTING JUNCTION WELL IDENTIFIER (X = TYPE OF JUNCTION WELL)
JWB X	PROPOSED JUNCTION WELL IN BARRIER (X = TYPE OF JUNCTION WELL)
JWB X	EXISTING JUNCTION WELL IN BARRIER (X = TYPE OF JUNCTION WELL)
PB X	PROPOSED POLE BASE IDENTIFIER (X = TYPE OF POLE BASE)
PB X	EXISTING POLE BASE IDENTIFIER (X = TYPE OF POLE BASE)

UTILITY COMPANY FACILITIES

KCS-FM	KENT COUNTY SEWER
VER-UG	VERIZON
COM-W-UG	CITY OF MILFORD WATER
DEC-E-UG	DELAWARE ELECTRIC

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LAST REVISED: 12/02/2010

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT	T200412201
COUNTY	KENT
BRIDGE NO.	X
DESIGNED BY:	MATTHEW VINCENT
CHECKED BY:	

LEGEND

SHEET NO.	3
TOTAL SHTS.	183

GENERAL NOTES

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2001 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2001, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

2. SITE REVIEWER - AN EROSION CONTROL SITE REVIEWER SHALL BE A PERSON FROM THE CONTRACTOR'S STAFF ASSIGNED TO EROSION AND SEDIMENT CONTROL IMPLEMENTATION AND MAINTENANCE AND SHALL BE REQUIRED ON SPECIFIC PROJECTS. THE NAME AND DNREC CERTIFICATION NUMBER OF EACH SITE REVIEWER SO REQUIRED SHALL BE SUBMITTED TO THE DEPARTMENT PRIOR TO THE EXECUTION OF THE CONTRACT. THE NAME OF THE DELAWARE REGISTERED PROFESSIONAL ENGINEER PROVIDING DIRECTION AND SUPERVISION OF THE SITE REVIEWER, AS REQUIRED IN SECTION 12.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, SHALL ALSO BE SUBMITTED TO THE DEPARTMENT PRIOR TO THE EXECUTION OF THE CONTRACT. THE SITE REVIEWER REQUIREMENTS IN EFFECT ON THIS PROJECT SHALL BE MARKED WITH AN "X" BELOW:

EROSION POTENTIAL FOR THIS PROJECT	SITE REVIEWER REQUIREMENT
( ) INSIGNIFICANT	NONE
( ) MINOR	CONTRACTOR CERTIFICATION COURSE TRAINING ONLY, AS DEFINED IN SECTION 1.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
( ) MEDIUM	THE SUPERINTENDENT OR A SEPARATE INDIVIDUAL FROM THE CONTRACTOR'S STAFF SHALL BE A CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 12 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
(X) MAJOR	SUPERINTENDENT AND AN INDIVIDUAL FROM CONTRACTOR'S STAFF SHALL BE CCR. ONE INDIVIDUAL FROM THE CONTRACTOR'S STAFF MUST BE A CCR PRIOR TO THE EXECUTION OF THE CONTRACT. THE SUPERINTENDENT MUST BECOME A CCR WITHIN ONE YEAR AFTER THE AWARD OF CONTRACT.

3. 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.
(X)	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
(X)	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
(X)	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.

4. 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)

5. 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.
( )	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 743000.
(X)	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE SUPERVISION OF THE INSTALLATION, OPERATION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT SHALL NOT BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR SHALL BE PAID FOR UNDER ITEM 743031.

6. THE DISTURBED AREA FOR THIS PROJECT IS 62.85 ACRES.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO THE CONSTRUCTION SITE POLLUTION PREVENTION SPECIFICATIONS AS DETAILED IN SECTION 3.6 OF THE "DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK". ALL COSTS ASSOCIATED WITH ADHERING TO THE STANDARDS SHALL BE INCIDENTAL TO THE OVERALL CONTRACT COSTS.

8. THE EROSION AND SEDIMENT CONTROL PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE EROSION AND SEDIMENT CONTROL PLANS ARE VALID FOR A THREE 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 THREE YEARS, THE CONTRACTOR SHALL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE EROSION AND SEDIMENT CONTROL PLAN APPROVAL. DELDOT WILL REVIEW THE CURRENT EROSION AND SEDIMENT CONTROL PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.

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. AT LOCATIONS THROUGHOUT THE PROJECT, THE CONTRACTOR SHALL BE DIRECTED TO USE EXCAVATED MATERIALS THAT ARE DEEMED SUITABLE BY THE ENGINEER. PAYMENT FOR PLACING THESE MATERIALS AT LOCATIONS AS DIRECTED BY THE ENGINEER SHALL BE INCIDENTAL TO THE ITEM THAT GENERATED THE MATERIAL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DRY OR WET THE MATERIALS, IF NEEDED, SO THAT THE MATERIALS WILL MEET THE REQUIREMENTS OF ITS INTENDED USE. THE CONTRACTOR MAY, WITH APPROVAL OF THE ENGINEER, STOCKPILE MATERIALS TO MEET THESE REQUIREMENTS. HOWEVER, MOVING THE MATERIAL FROM THE STOCKPILE AND THEN UTILIZING THE MATERIAL SHALL NOT BE MEASURED FOR PAYMENT. ALL MATERIALS ENCOUNTERED IN THE EXCAVATIONS OF THE PROJECT THAT ARE NOT USED ELSEWHERE ON THE PROJECT SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. ALL COSTS ASSOCIATED WITH STOCKPILING THE MATERIAL, MOVING ANY MATERIALS FROM ANY STOCKPILES, WETTING AND/OR DRYING THE MATERIAL, OR REMOVAL AND FINAL DISPOSAL SHALL BE INCIDENTAL TO THE ITEM THAT GENERATED THE MATERIAL.

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. 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 SET 46 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. COST FOR ALL WORK AND MATERIALS SHALL BE PAID UNDER ITEM 201000 - CLEARING AND GRUBBING.

4. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO EXCAVATE TEST PITS ALONG PROPOSED DRAINAGE RUNS, AT POINTS OF POSSIBLE UTILITY CONFLICTS, TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR, WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED. THE ENGINEER SHALL ULTIMATELY DETERMINE THE SOLUTION TO THE UTILITY CONFLICT. TEST HOLES SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 208000 - EXCAVATION AND BACKFILL FOR PIPE TRENCHES, BUT ONLY TO THE ACTUAL DEPTH EXCAVATED.

5. ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   - EXISTING MEDIAN DRAINAGE INLETS BEING REPLACED WITH NEW DRAINAGE INLETS.
   - EXISTING DRAINAGE INLETS AND PIPES NOT COVERED BY SECTION 202.
   - FENCING AND POSTS LOCATED WITHIN LOC UNLESS LABELED OTHERWISE.

6. 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 TEAM SUPPORT 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.

SECTION 300

7. A. THE CONTRACTOR MAY ELECT TO USE ANY OF THE FOLLOWING MATERIALS TO MEET THE REQUIREMENTS OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B':
   a. CRUSHED STONE (PER STANDARD SPECIFICATION 821)
   b. CRUSHED CONCRETE (PER STANDARD SPECIFICATION 821)
   c. HOT-MIX MILLINGS (PER SPECIAL PROVISION 302514 MILLED HOT-MIX BASE COURSE)

   THE CONTRACTOR WILL NOT BE ALLOWED TO MIX DIFFERENT MATERIALS (OR SIMILAR MATERIALS FROM DIFFERENT SOURCES) TO MEET THE REQUIREMENTS OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

   ALL OF THE ABOVE LISTED MATERIALS ARE PERMITTED FOR USE ON THE JOB, PROVIDED THEY ARE SEPARATED INTO APPROVED AREAS. EACH AREA OF BASE COURSE MUST BE CONSTRUCTED USING MATERIALS FROM A SINGULAR SOURCE, FULL DEPTH, IN ORDER THAT PROPER TESTING MAY BE ACCOMPLISHED. THE CONTRACTOR AND DELDOT'S PROJECT ENGINEER SHALL AGREE ON THE LIMITS OF EACH SOURCE OF MATERIAL PRIOR TO PLACEMENT.

   B. THE QUANTITY USED FOR BASE OF EACH OF THE ABOVE LISTED MATERIALS WILL BE THE CONTRACTOR'S CHOICE, WITH THE TOTAL MEETING THE ADVERTISED QUANTITY OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

   C. THE CONTRACTOR MAY ALSO ELECT TO RECYCLE MILLINGS FOR USE IN HOT-MIX AS PERMITTED BY THE STANDARD SPECIFICATIONS. THE CHOICE OF THE QUANTITY OF MILLINGS USED FOR THIS PURPOSE, OR FOR BASE COURSE, LIES WITH THE CONTRACTOR. ALL MILLING MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR.

   D. HOT-MIX MILLINGS MAY BE GENERATED FROM THE FOLLOWING SOURCES:
   a. MATERIAL MADE AVAILABLE WHEN MILLED ON THIS CONTRACT UNDER ITEM XXXXXX.
   b. MATERIAL MILLED ON THIS CONTRACT AT THE CONTRACTOR'S CHOICE UNDER ITEM 202000.
   c. MILLED MATERIAL FURNISHED ON THE JOB FROM THE CONTRACTOR'S YARD OR OTHER OUTSIDE SOURCE.
   ALL MILLED MATERIALS SHALL MEET THE MATERIAL REQUIREMENTS OF ITEM 302514 - MILLED HOT-MIX BASE COURSE.

   E. PAYMENT CLARIFICATION:
   a. SHOULD THE CONTRACTOR ELECT TO MILL PORTIONS OF HOT-MIX SHOWN ON THE PLANS TO BE REMOVED UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT THE COST OF MILLING THIS HOT-MIX WILL BE PAID AS ITEM 202000 - EXCAVATION AND EMBANKMENT. THE MILLINGS GENERATED MAY BE RECYCLED INTO HOT-MIX, UTILIZED FOR BASE COURSE, OR DISPOSED OF TO AN APPROVED SITE. HAULING COSTS FOR DISPOSAL AND/OR RECYCLING ARE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.

   b. MILLINGS GENERATED UNDER ITEM 760502 - PAVEMENT MILLINGS, TAPERCUT MAY BE RECYCLED INTO HOT-MIX, UTILIZED FOR BASE COURSE OR DISPOSED OF BY THE CONTRACTOR TO AN APPROVED SITE. NO SEPARATE PAYMENT WILL BE MADE FOR TRANSPORTING MILLINGS ON SITE OR TO AN APPROVED DISPOSAL SITE.

   c. SHOULD THE CONTRACTOR ELECT TO TEMPORARILY STOCKPILE MILLINGS ON THE JOB SITE FOR LATER USE, ALL COSTS FOR STOCKPILING AND SUBSEQUENT REHANDLING SHALL BE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.

   d. MILLINGS USED FOR BASE COURSE SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIAL PROVISION 302514 - MILLED HOT-MIX BASE COURSE. NO SEPARATE PAYMENT WILL BE MADE TO FURNISH MILLINGS FROM AN OUTSIDE SOURCE OR TRANSPORT MILLINGS WITHIN THE PROJECT LIMITS. MILLINGS USED FOR BASE COURSE WILL BE PAID IN PLACE AT THE UNIT BID PRICE FOR ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

   e. ALL COSTS TO UTILIZE MILLINGS IN RECYCLED HOT-MIX WILL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE HOT-MIX ITEM USING THE RECYCLED MATERIAL.

SECTION 300 (CONT.)

   f. SPECIAL PROVISION 302514 - MILLED HOT-MIX BASE COURSE IS PROVIDED TO SPECIFY THE MEANS OF LAY DOWN AND COMPACTION AS WELL AS THE MATERIAL REQUIREMENTS FOR MILLINGS USED AS BASE COURSE. ALL COSTS TO BRING THE MILLINGS INTO COMPLIANCE WITH THE REQUIREMENTS OF ITEM - 302514 MILLED HOT-MIX BASE COURSE ARE INCIDENTAL TO ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'. NO PAYMENT WILL BE MADE FOR ITEM 302514 - MILLED HOT-MIX BASE COURSE. THE QUANTITY OF MILLINGS USED FOR BASE COURSE WILL BE PAID FOR UNDER ITEM 302007 - GRADED AGGREGATE BASE COURSE.

SECTION 400

8. THE PAVEMENT SECTION FOR HOT-MIX RESIDENTIAL DRIVEWAYS SHALL BE 2" HOT-MIX, TYPE 'C' OVER 8" GRADED AGGREGATE BASE COURSE, TYPE 'B', UNLESS OTHERWISE NOTED ON THE PLANS.

SECTION 600

9. THE DEPARTMENT AND THE CONTRACTOR SHALL INSPECT ALL EXISTING PIPES AND DRAINAGE STRUCTURES TO BE USED IN THE FINAL DRAINAGE SYSTEM AND AGREE ON THE CONDITION PRIOR TO THE START OF CONSTRUCTION. EXISTING PIPES AND DRAINAGE STRUCTURES DAMAGED DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE. THE DEPARTMENT WILL VIDEO INSPECT NEW PIPE RUNS TO CONFIRM CONDITION PRIOR TO ACCEPTANCE. PIPE CLEANING PRIOR TO VIDEO INSPECTION AND MAINTENANCE OF TRAFFIC DURING THE VIDEO INSPECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND INCIDENTAL TO THE PIPE ITEM THAT IS BEING VIDEO INSPECTED.

SECTION 700

10. 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.

11. 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 762002 - SAWCUTTING, CONCRETE, FULL DEPTH.

12. PORTLAND CEMENT CONCRETE CHANNELIZING ISLANDS THAT ARE LESS THAN 75 SQ FT MAY BE POURED MONOLITHICALLY, OR AS DIRECTED BY THE ENGINEER.

13. 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.

14. DRAINAGE INLET GRATES ADJACENT TO THE ROAD, WITHIN THE PROJECT LIMITS, WHICH ARE NOT TYPE 1 SHALL BE REPLACED. 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 708500 - REPLACING CATCH BASIN GRATES. FINAL PAYMENT FOR REPLACED GRATES/FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.

15. 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.

16. PRIOR TO THE OPENING OF A ROADWAY TO TRAFFIC OR A MODIFICATION IN A TRAFFIC PATTERN, ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS.

17. PRIOR TO THE OPENING OF A RAMP TO TRAFFIC, OVERHEAD LIGHTING SHALL BE USED.

MISCELLANEOUS

18. THE CONTRACTOR SHALL CONTACT MICHAEL ELLER, THE CHIEF OF SCHEDULING FOR DART FIRST STATE, 14 DAYS PRIOR TO THE START OF CONSTRUCTION AT 302-576-6061.

19. SEE ENVIRONMENTAL COMPLIANCE PLAN FOR FURTHER RESTRICTIONS/GUIDANCE ASSOCIATED WITH THIS PROJECT.

20. PERMITTING FOR UTILITIES: AS OUTLINED IN CHAPTER 3 OF THE DELDOT UTILITIES MANUAL, THE INDIVIDUAL UTILITY COMPANIES ARE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FROM MUNICIPAL, STATE AND FEDERAL GOVERNMENT AGENCIES AND RAILROADS. THIS INCLUDES BUT IS NOT LIMITED TO WATER QUALITY PERMIT/DNREC WATER QUALITY CERTIFICATION, DNREC SUBAQUEOUS LANDS/WETLANDS PERMITS, DNREC COASTAL ZONE CONSISTENCY CERTIFICATION, COUNTY FLOODPLAIN PERMITS (NEW CASTLE COUNTY ONLY), U.S. COAST GUARD PERMITS, U.S. ARMY CORPS 404 PERMITS, SEDIMENT AND EROSION PERMITS, AND RAILROAD CROSSING PERMITS. THE ENVIRONMENTAL PERMITS CITED ON THE EC SHEETS(S) DO NOT AUTHORIZE ANY PART OF THE UTILITY WORK ASSOCIATED WITH THIS PROJECT.

21. THE CONTRACTOR AFTER REMOVING THE ENTRANCE AT STA 61+75 LEFT SHALL INSTALL ONE POLE BASE TO MATCH EXISTING POLE BASES FOR PARKING LOT LIGHTING. THE CONTRACTOR SHALL COORDINATE WITH THE ENTRANCE OWNER THE LOCATION AND ALL DETAILS REGARDING THE CONSTRUCTION OF THE POLE BASE. CARE SHOULD ALSO BE TAKEN NOT TO DAMAGE AND/OR IMPACT EXISTING IRRIGATION LOCATED IN THE VINCINITY OF THE ENTRANCE TO BE REMOVED. ALL COST FOR MATERIALS AND INSTALLATION OF THE POLE BASE AND/OR REPAIRING/REPLACING ANY DAMAGE TO THE IRRIGATION SYSTEM SHALL BE INCIDENTAL TO THE CONTRACT.

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LAST REVISED: 03/22/2011

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	

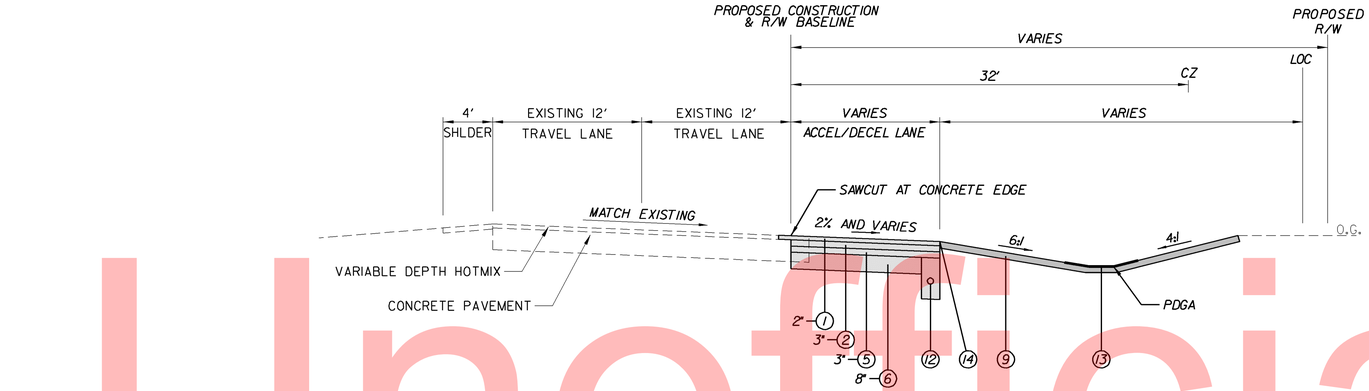
NOT TO SCALE

SR1, THOMPSONVILLE
GRADE SEPARATED
INTERSECTION

CONTRACT	T200412201
COUNTY	KENT
BRIDGE NO.	
DESIGNED BY: MATTHEW VINCENT	
CHECKED BY:	

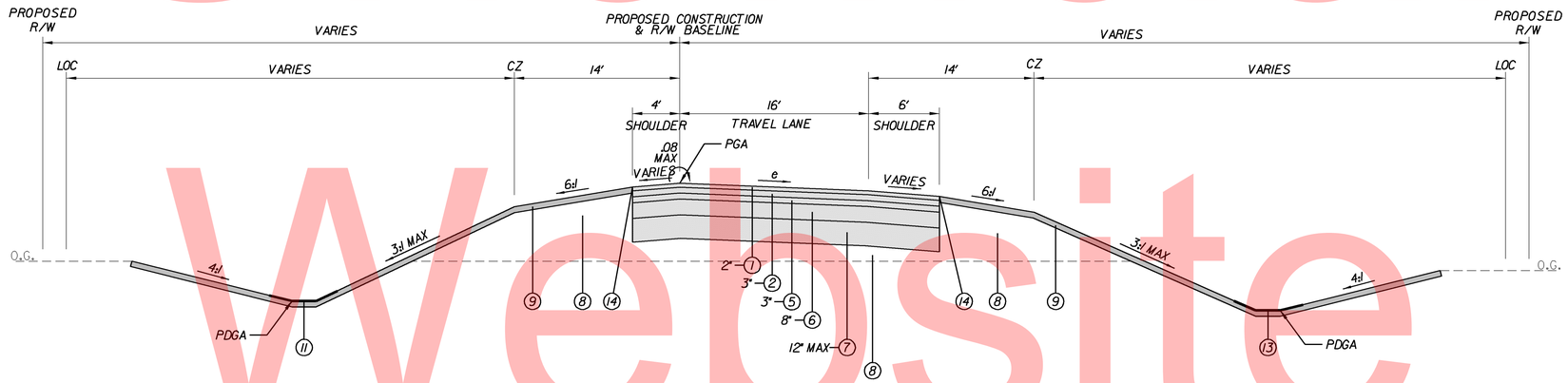
NOTES SHEET

SHEET NO.	4
TOTAL SHTS.	183



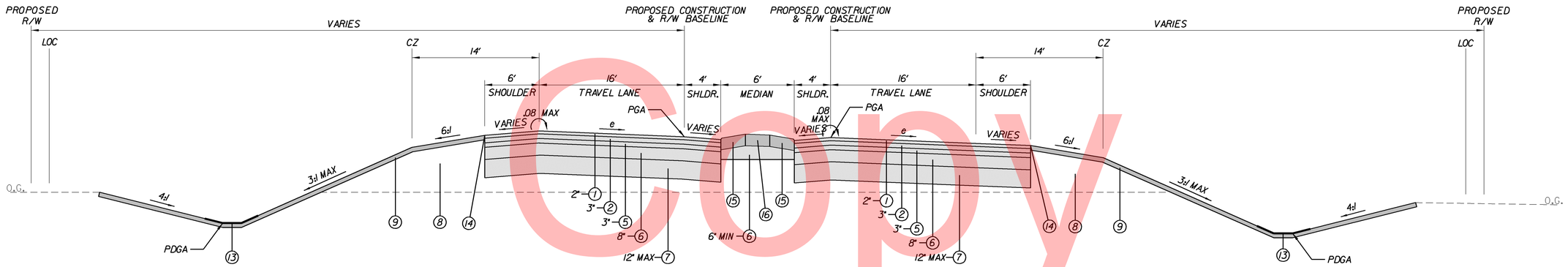
TYPICAL SECTION RAMPS ACCEL/DECEL LANE

RAMP A: STA 311+16.37 TO STA 323+35.28
RAMP B: STA 402+00.00 TO STA 408+80.00
RAMP C: STA 510+12.27 TO STA 516+92.27
RAMP D: STA 619+96.85 TO STA 632+06.84



TYPICAL SECTION RAMPS

e(max) = 6.0%
RAMP A: STA 306+03.43 TO STA 311+16.37
RAMP B: STA 408+80.00 TO STA 414+15.85
RAMP C: STA 504+84.46 TO STA 510+12.27
RAMP D: STA 632+06.84 TO STA 637+48.91



TYPICAL SECTION RAMPS

e(max) = 6.0%
RAMP A: STA 300+24.00 TO STA 306+03.43/RAMP B: STA 414+15.85 TO STA 416+54.58
RAMP C: STA 503+85.00 TO STA 504+84.46/RAMP D: STA 637+48.91 TO STA 642+24.24

LEGEND

1. ITEM 401804, WMA, SUPERPAVE TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
2. ITEM 401813, WMA, SUPERPAVE TYPE B, 160 GYRATIONS, PG 70-22
3. ITEM 401801, WMA, SUPERPAVE TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)
4. ITEM 401810, WMA, SUPERPAVE TYPE B, 160 GYRATIONS, PG 64-22
5. ITEM 401819, WMA, SUPERPAVE BCBC, PG 64-22
6. ITEM 302007, GABC, TYPE B
7. ITEM 209001, BORROW, TYPE A
8. ITEM 209006, BORROW, TYPE F (IN FILL SECTIONS)
9. ITEM 732002, TOPSOIL, 6" OR ITEM 733002, TOPSOILING, 6" ITEM 734013, PERMANENT GRASS SEEDING, DRY GROUND
10. ITEM 701020, INTERGRAL P.C.C. CURB & GUTTER, TYPE 1-8
11. ITEM 701023, INTERGRAL P.C.C. CURB & GUTTER, TYPE 1-4
12. ITEM 715001, PERFORATED PIPE UNDERDRAINS, 6" (SEE DETAIL SHEET)
13. ITEM 735535, SOIL RENTENTION BLANKET MUCH, TYPE 5 (MIN. 6' WIDTH)
14. ITEM 401752, SAFETY EDGE FOR ROADWAY PAVEMENT
15. ITEM 701011, P.C.C. CURB, TYPE 2
16. ITEM 705005, P.C.C. SIDEWALK, 8"

PAVEMENT LIFT NOTE:
MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
SUPERPAVE, TYPE C - 2"
SUPERPAVE, TYPE B - 3"
SUPERPAVE BITUMINOUS CONC. BASE COURSE - 6"
GRADED AGGREGATE BASE COURSE - 8"

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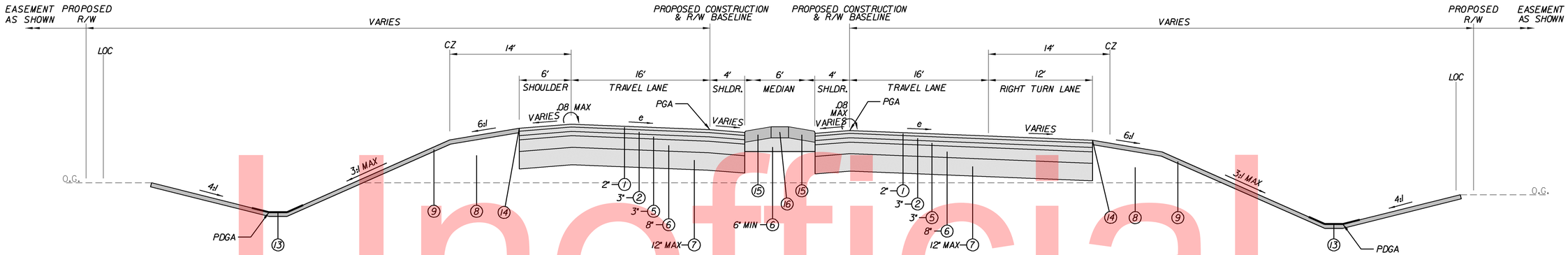
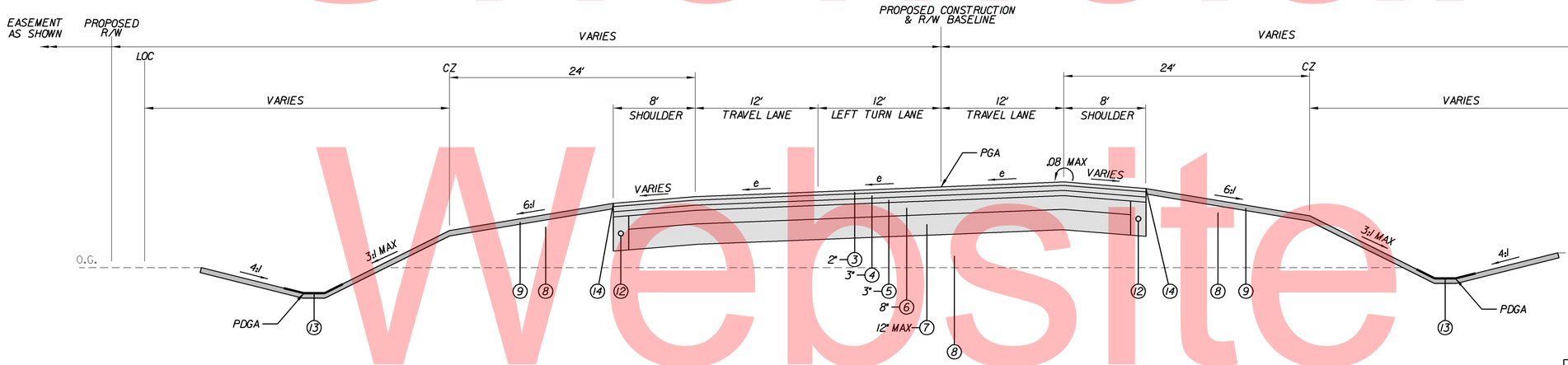
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201	BRIDGE NO.	TYPICAL SECTIONS	SHEET NO. 5
				COUNTY KENT	DESIGNED BY:		TOTAL SHTS. 183
					CHECKED BY:		



TYPICAL SUPERELEVATED SECTION–RAMPS W/RIGHT TURN LANE

e(max) = 6.0%
RAMP B: STA 416+54.58 TO STA 420+27.58
RAMP C: STA 500+23.91 TO STA 503+85.00



TYPICAL SUPERELEVATED SECTION–CHURCH HILL /THOMPSONVILLE ROAD W/LEFT TURN LANE

e(max) = 6.0%
STA 204+09.16 TO STA 209+18.34
STA 235+79.82 TO STA 238+46.56

TYPICAL SUPERELEVATED SECTION–THOMPSONVILLE ROAD W/LEFT TURN LANE AND CURB

e(max) = 6.0%
STA 238+46.56 TO STA 243+05.79

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PAVEMENT LIFT NOTE:
MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
SUPERPAVE, TYPE C - 2"
SUPERPAVE, TYPE B - 3"
SUPERPAVE BITUMINOUS CONC. BASE COURSE - 6"
GRADED AGGREGATE BASE COURSE - 8"

LEGEND

(1) ITEM 401804, WMA, SUPERPAVE TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
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(5) ITEM 401819, WMA, SUPERPAVE BCBC, PG 64-22
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(8) ITEM 209006, BORROW, TYPE F (IN FILL SECTIONS)
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(10) ITEM 701020, INTERGRAL P.C.C. CURB & GUTTER, TYPE 1-8
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(13) ITEM 735535, SOIL RENTENTION BLANKET MUCH, TYPE 5 (MIN. 6" WIDTH)
(14) ITEM 401752, SAFETY EDGE FOR ROADWAY PAVEMENT
(15) ITEM 701011, P.C.C. CURB, TYPE 2
(16) ITEM 705005, P.C.C. SIDEWALK, 8"

DELAWARE
DEPARTMENT OF TRANSPORTATION

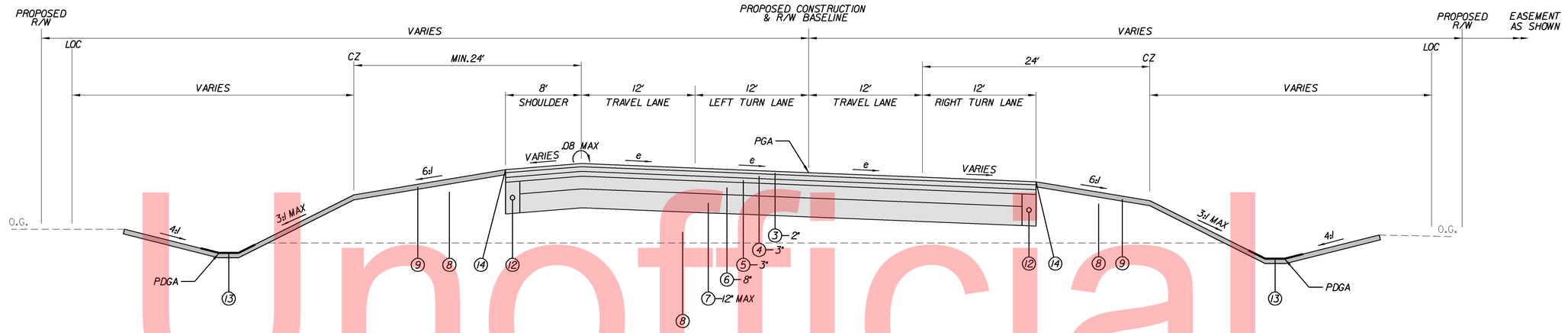
ADDENDUMS / REVISIONS

NOT TO SCALE

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

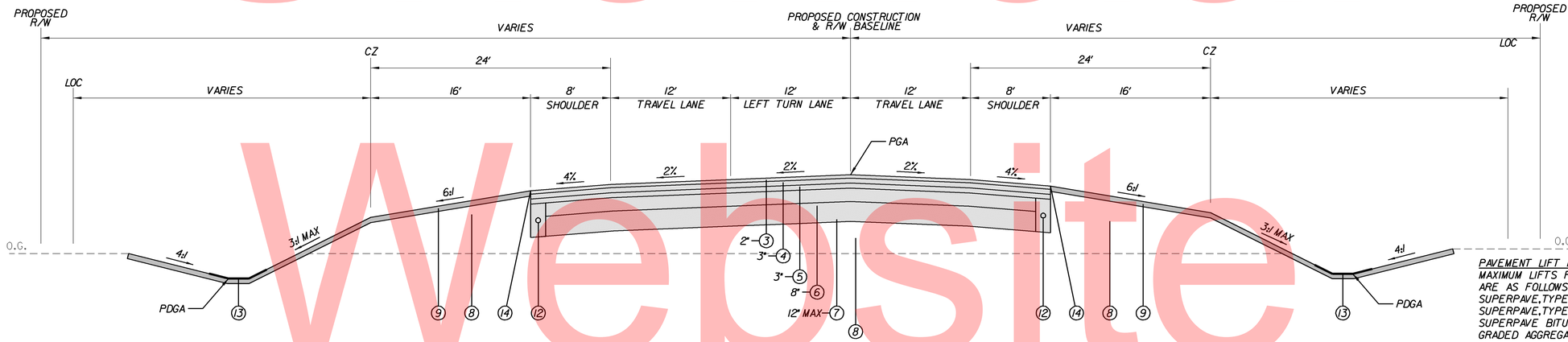
CONTRACT	BRIDGE NO.	SHEET NO.
T200412201		6
COUNTY	DESIGNED BY: MATTHEW VINCENT	TOTAL SHTS.
KENT	CHECKED BY:	183

TYPICAL SECTIONS



TYPICAL SUPERELEVATED SECTION–CHURCH HILL /THOMPSONVILLE ROAD W/LEFT TURN LANE

e(max) = 6.0%
STA 209+18.34 TO STA 223+09.11



TYPICAL NORMAL SECTION–THOMPSONVILLE RD. W/LEFT TURN LANE

STA 223+09.11 TO STA 231+27.09
STA 235+47.09 TO STA 235+79.82

TYPICAL NORMAL SECTION–THOMPSONVILLE ROAD W/LEFT TURN LANE AND CURB

STA 243+05.79 TO STA 244+49.44

PAVEMENT LIFT NOTE:
MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
SUPERPAVE, TYPE C - 2"
SUPERPAVE, TYPE B - 3"
SUPERPAVE BITUMINOUS CONC. BASE COURSE - 6"
GRADED AGGREGATE BASE COURSE - 8"

LEGEND

(1) ITEM 401804, WMA, SUPERPAVE TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
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(12) ITEM 715001, PERFORATED PIPE UNDERDRAINS, 6" (SEE DETAIL SHEET)
(13) ITEM 735535, SOIL RENTENTION BLANKET MUCH, TYPE 5 (MIN. 6' WIDTH)
(14) ITEM 401752, SAFETY EDGE FOR ROADWAY PAVEMENT
(15) ITEM 701011, P.C.C. CURB, TYPE 2
(16) ITEM 705005, P.C.C. SIDEWALK, 8"

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201	BRIDGE NO.	TYPICAL SECTIONS	SHEET NO. 7
				COUNTY KENT	DESIGNED BY: MATTHEW VINCENT		TOTAL SHTS. 183
					CHECKED BY:		

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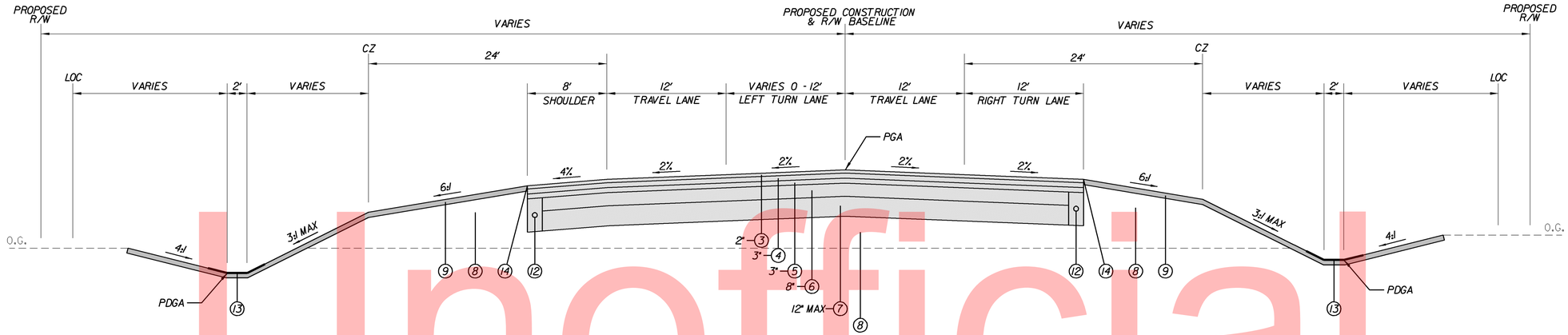
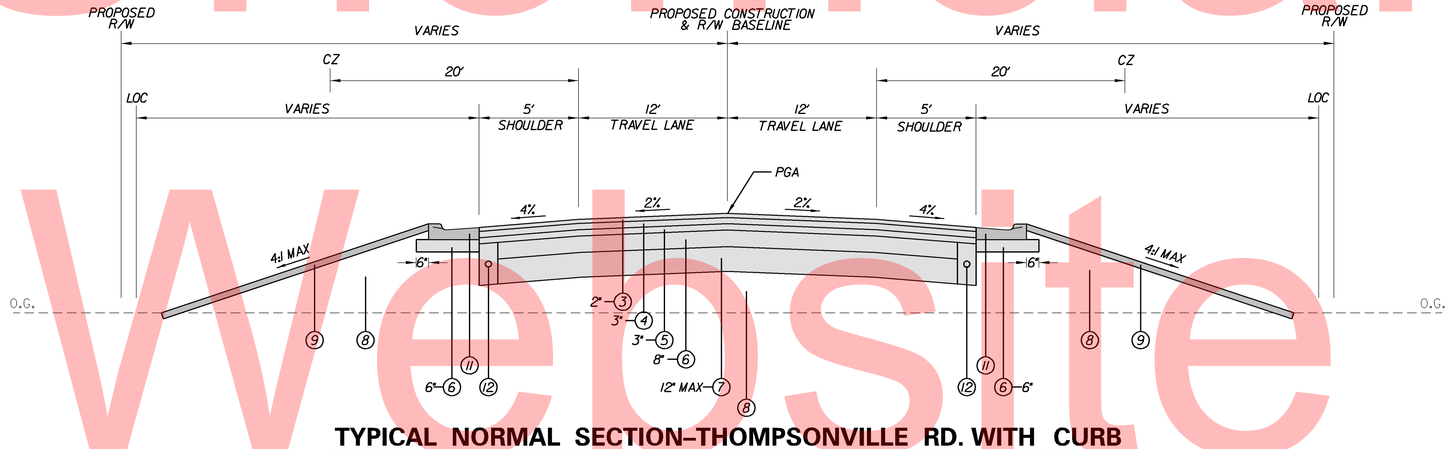


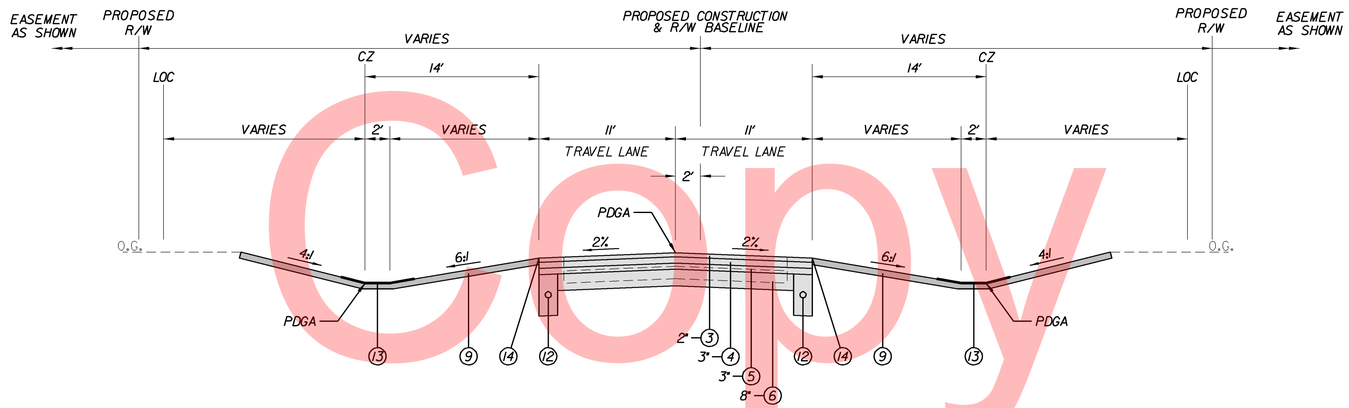
TYPICAL NORMAL SECTION–THOMPSONVILLE RD. W/LEFT AND RIGHT TURN LANES

STA 231+27.09 TO STA 235+47.09



TYPICAL NORMAL SECTION–THOMPSONVILLE RD. WITH CURB

STATION 244+49.44 TO STATION 247+90.45



TYPICAL NORMAL SECTION–TUB MILL POND ROAD

STA 105+51.72 TO STA 110+68.70

PAVEMENT LIFT NOTE:
MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
SUPERPAVE, TYPE C - 2"
SUPERPAVE, TYPE B - 3"
SUPERPAVE BITUMINOUS CONC. BASE COURSE - 6"
GRADED AGGREGATE BASE COURSE - 8"

LEGEND

1. ITEM 401804, WMA, SUPERPAVE TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
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6. ITEM 302007, GABC, TYPE B
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12. ITEM 715001, PERFORATED PIPE UNDERDRAINS, 6" (SEE DETAIL SHEET)
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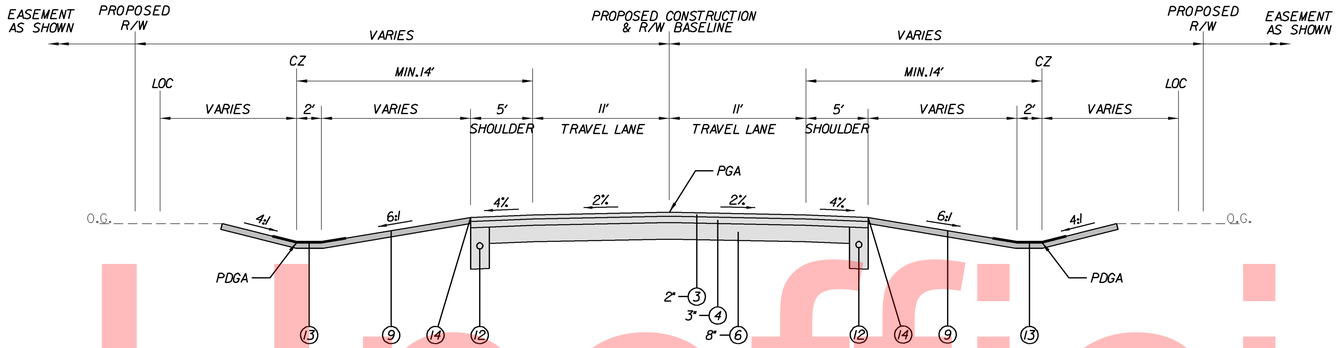
14. ITEM 401752, SAFETY EDGE FOR ROADWAY PAVEMENT
15. ITEM 701011, P.C.C. CURB, TYPE 2
16. ITEM 705005, P.C.C. SIDEWALK, 8"

Unofficial Website Copy

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201	BRIDGE NO.	TYPICAL SECTIONS	SHEET NO. 8
				COUNTY KENT	DESIGNED BY: MATTHEW VINCENT		TOTAL SHTS. 183
					CHECKED BY:		

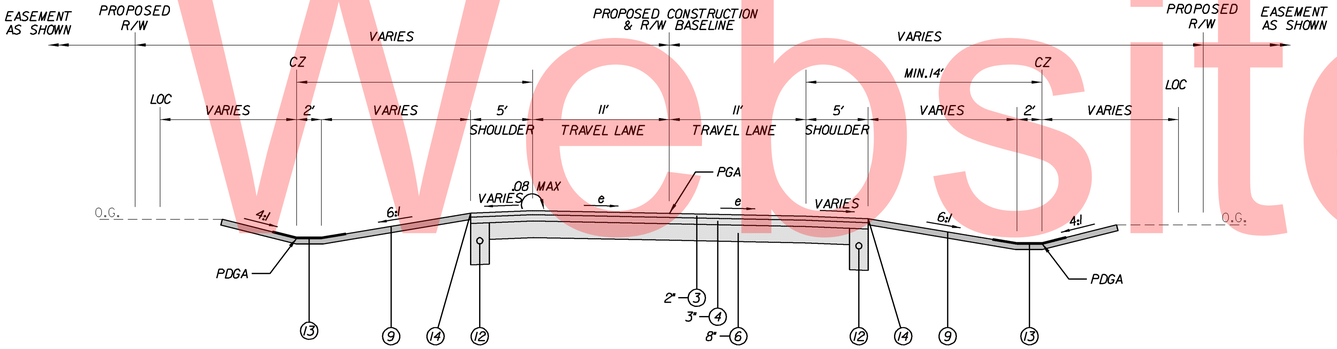


TYPICAL NORMAL SECTION–MONTOUR DRIVE

STA 713+55.00 TO STA 716+04.67

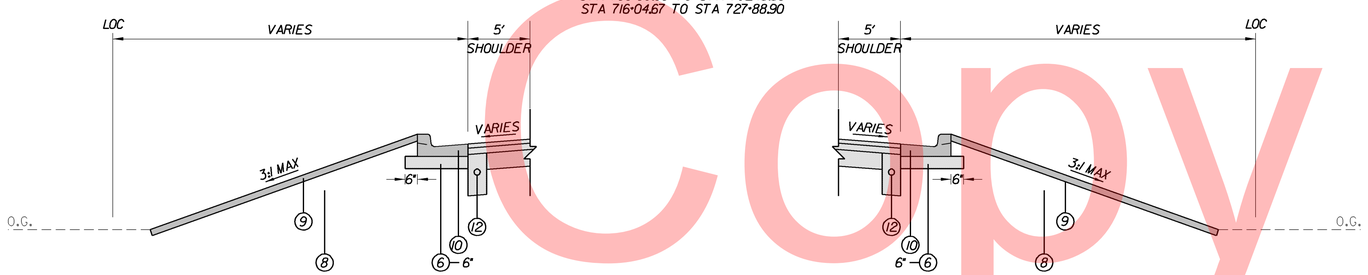
TYPICAL NORMAL SECTION–MONTOUR DRIVE W/CURB

STA 702+80.00 TO STA 706+84.06
STA 711+53.35 TO STA 713+55.00



TYPICAL SUPERELEVATED SECTION–MONTOUR DRIVE

e(max) = 6.0%
STA 700+00.00 TO STA 702+18.80
STA 716+04.67 TO STA 727+88.90



TYPICAL SUPERELEVATED SECTION–MONTOUR DRIVE W/CURB

e(max) = 6.0%
STA 702+18.80 TO STA 702+80.00
STA 706+84.06 TO STA 711+53.35

PAVEMENT LIFT NOTE:
MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
SUPERPAVE, TYPE C - 2"
SUPERPAVE, TYPE B - 3"
SUPERPAVE BITUMINOUS CONC. BASE COURSE - 6"
GRADED AGGREGATE BASE COURSE - 8"

LEGEND

(1) ITEM 401804, WMA, SUPERPAVE TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
(2) ITEM 401813, WMA, SUPERPAVE TYPE B, 160 GYRATIONS, PG 70-22
(3) ITEM 401801, WMA, SUPERPAVE TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)
(4) ITEM 401810, WMA, SUPERPAVE TYPE B, 160 GYRATIONS, PG 64-22
(5) ITEM 401819, WMA, SUPERPAVE BCBC, PG 64-22
(6) ITEM 302007, GABC, TYPE B
(7) ITEM 209001, BORROW, TYPE A
(8) ITEM 209006, BORROW, TYPE F (IN FILL SECTIONS)
(9) ITEM 732002, TOPSOIL, 6" OR ITEM 733002, TOPSOILING, 6" ITEM 734013, PERMANENT GRASS SEEDING, DRY GROUND
(10) ITEM 701020, INTERGRAL P.C.C. CURB & GUTTER, TYPE 1-8
(11) ITEM 701023, INTERGRAL P.C.C. CURB & GUTTER, TYPE 1-4
(12) ITEM 715001, PERFORATED PIPE UNDERDRAINS, 6" (SEE DETAIL SHEET)
(13) ITEM 735535, SOIL RENTENTION BLANKET MUCH, TYPE 5 (MIN. 6' WIDTH)
(14) ITEM 401752, SAFETY EDGE FOR ROADWAY PAVEMENT
(15) ITEM 701011, P.C.C. CURB, TYPE 2
(16) ITEM 705005, P.C.C. SIDEWALK, 8"

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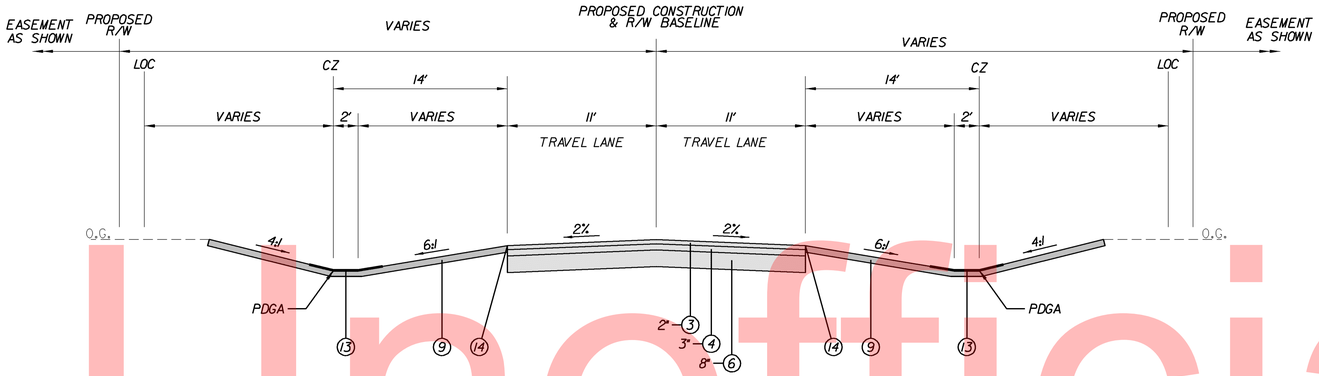
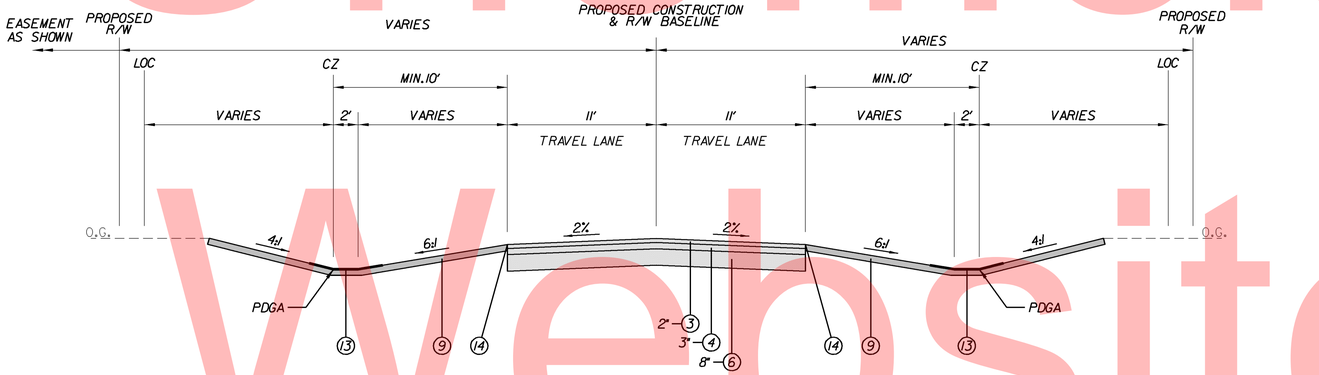
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201	BRIDGE NO.	TYPICAL SECTIONS
				COUNTY KENT	DESIGNED BY: MATTHEW VINCENT	SHEET NO. 9
					CHECKED BY:	TOTAL SHTS. 183



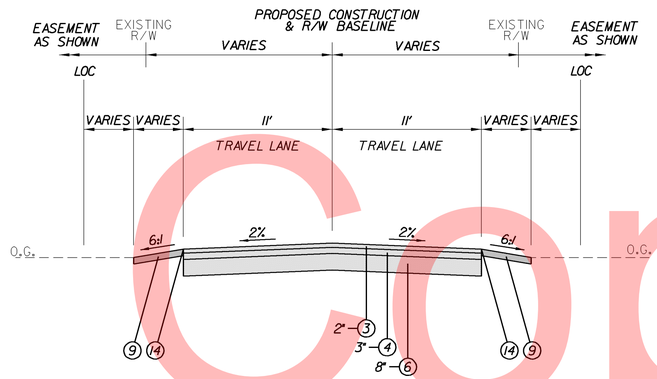
TYPICAL NORMAL SECTION–MERCER AVENUE

STA 902+71.28 TO STA 906+73.52



TYPICAL NORMAL SECTION–KELLER AVENUE

STA 800+11.00 TO STA 801+85.00



TYPICAL NORMAL SECTION–KELLER AVENUE

STA 801+85.00 TO STA 806+09.19

PAVEMENT LIFT NOTE:
MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
SUPERPAVE, TYPE C - 2"
SUPERPAVE, TYPE B - 3"
SUPERPAVE BITUMINOUS CONC. BASE COURSE - 6"
GRADED AGGREGATE BASE COURSE - 8"

LEGEND

(1) ITEM 401804, WMA, SUPERPAVE TYPE C, 160 GYRATIONS, PG 70-22 (CARBONATE STONE)
(2) ITEM 401813, WMA, SUPERPAVE TYPE B, 160 GYRATIONS, PG 70-22
(3) ITEM 401801, WMA, SUPERPAVE TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)
(4) ITEM 401810, WMA, SUPERPAVE TYPE B, 160 GYRATIONS, PG 64-22
(5) ITEM 401819, WMA, SUPERPAVE BCBC, PG 64-22
(6) ITEM 302007, GABC, TYPE B
(7) ITEM 209001, BORROW, TYPE A
(8) ITEM 209006, BORROW, TYPE F (IN FILL SECTIONS)
(9) ITEM 732002, TOPSOIL, 6" OR ITEM 733002, TOPSOILING, 6" ITEM 734013, PERMANENT GRASS SEEDING, DRY GROUND
(10) ITEM 701020, INTERGRAL P.C.C. CURB & GUTTER, TYPE 1-8
(11) ITEM 701023, INTERGRAL P.C.C. CURB & GUTTER, TYPE 1-4
(12) ITEM 715001, PERFORATED PIPE UNDERDRAINS, 6" (SEE DETAIL SHEET)
(13) ITEM 735535, SOIL RENTENTION BLANKET MUCH, TYPE 5 (MIN. 6' WIDTH)
(14) ITEM 401752, SAFETY EDGE FOR ROADWAY PAVEMENT
(15) ITEM 701011, P.C.C. CURB, TYPE 2
(16) ITEM 705005, P.C.C. SIDEWALK, 8"

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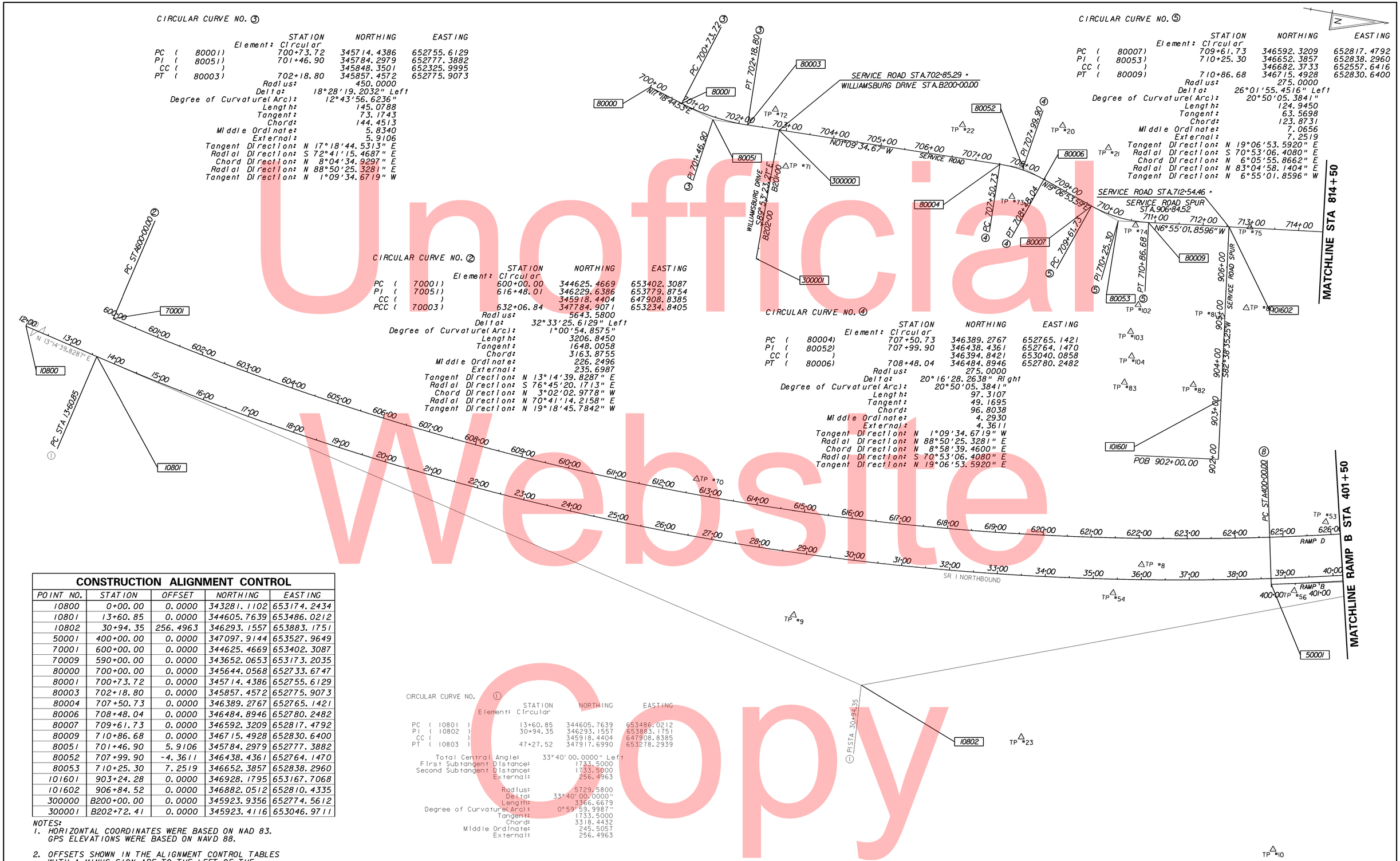
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201	BRIDGE NO.	TYPICAL SECTIONS
				COUNTY KENT	DESIGNED BY:	SHEET NO. 10
					CHECKED BY:	TOTAL SHTS. 183



Unofficial Website Copy

CONSTRUCTION ALIGNMENT CONTROL

POINT NO.	STATION	OFFSET	NORTHING	EASTING
10800	0+00.00	0.0000	343281.1102	653174.2434
10801	13+60.85	0.0000	344605.7639	653486.0212
10802	30+94.35	256.4963	346293.1557	653883.1751
50001	400+00.00	0.0000	347097.9144	653527.9649
70001	600+00.00	0.0000	344625.4669	653402.3087
70009	590+00.00	0.0000	343652.0653	653173.2035
80000	700+00.00	0.0000	345644.0568	652733.6747
80001	700+73.72	0.0000	345714.4386	652755.6129
80003	702+18.80	0.0000	345857.4572	652775.9073
80004	707+50.73	0.0000	346389.2767	652765.1421
80006	708+48.04	0.0000	346484.8946	652780.2482
80007	709+61.73	0.0000	346592.3209	652817.4792
80009	710+86.68	0.0000	346715.4928	652830.6400
80051	701+46.90	5.9106	345784.2979	652777.3882
80052	707+99.90	-4.3611	346438.4361	652764.1470
80053	710+25.30	7.2519	346652.3857	652838.2960
101601	903+24.28	0.0000	346928.1795	653167.7068
101602	906+84.52	0.0000	346882.0512	652810.4335
300000	B200+00.00	0.0000	345923.9356	652774.5612
300001	B202+72.41	0.0000	345923.4116	653046.9711

NOTES:
1. HORIZONTAL COORDINATES WERE BASED ON NAD 83. GPS ELEVATIONS WERE BASED ON NAVD 88.
2. OFFSETS SHOWN IN THE ALIGNMENT CONTROL TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE BASELINE

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

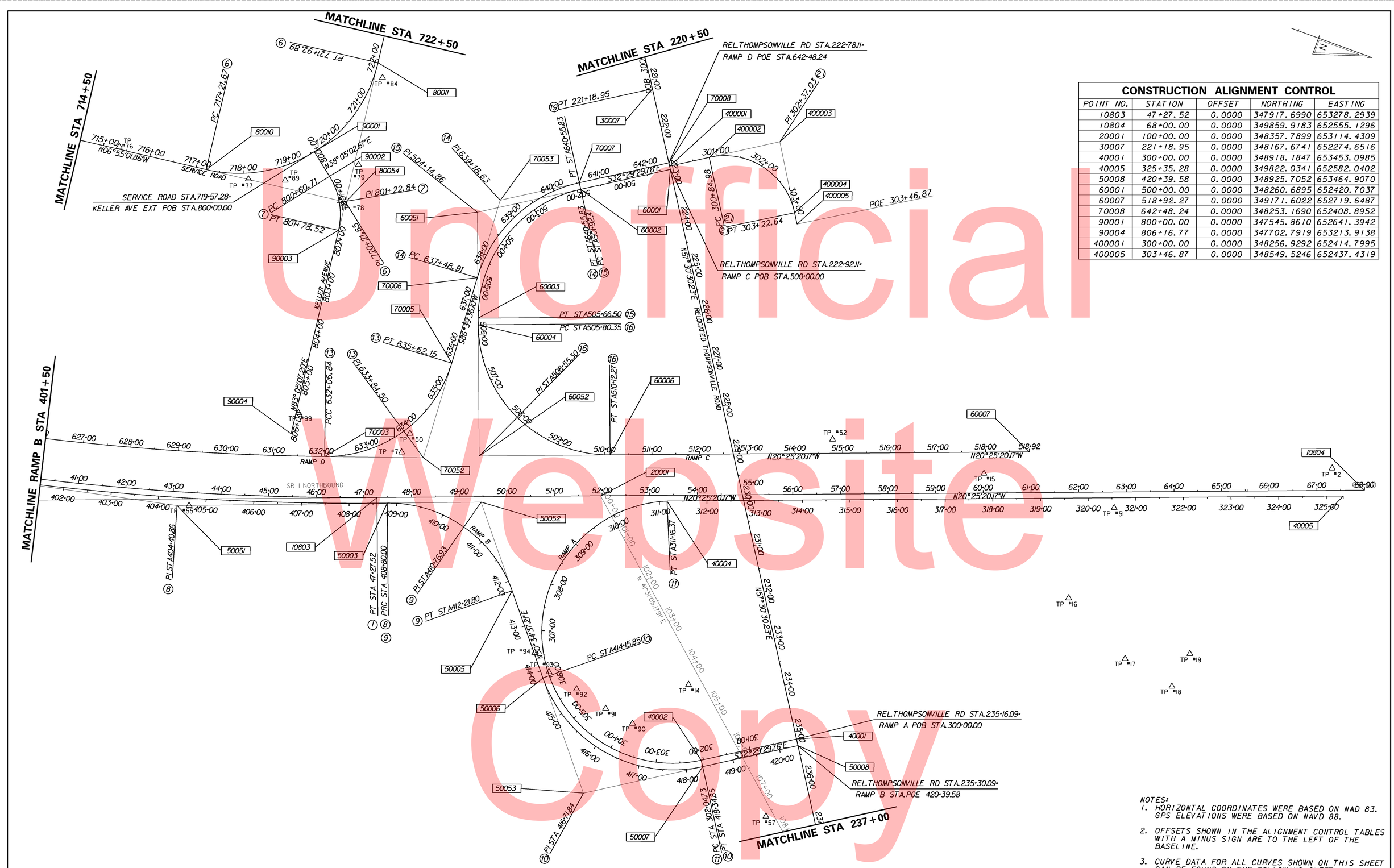
SCALE 0 90 180 270 FEET

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	
T200412201	DESIGNED BY: MATTHEW VINCENT	
COUNTY	CHECKED BY:	
KENT		

HORIZONTAL AND VERTICAL CONTROL

SHEET NO.
11
TOTAL SHTS.
183



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CONSTRUCTION ALIGNMENT CONTROL

POINT NO.	STATION	OFFSET	NORTHING	EASTING
10803	47+27.52	0.0000	347917.6990	653278.2939
10804	68+00.00	0.0000	349859.9183	652555.1296
20001	100+00.00	0.0000	348357.7899	653114.4309
30007	221+18.95	0.0000	348167.6741	652274.6516
40001	300+00.00	0.0000	348918.1847	653453.0985
40005	325+35.28	0.0000	349822.0341	652582.0402
50008	420+39.58	0.0000	348925.7052	653464.9070
60001	500+00.00	0.0000	348260.6895	652420.7037
60007	518+92.27	0.0000	349171.6022	652719.6487
70008	642+48.24	0.0000	348253.1690	652408.8952
90001	800+00.00	0.0000	347545.8610	652641.3942
90004	806+16.77	0.0000	347702.7919	653213.9138
400001	300+00.00	0.0000	348256.9292	652414.7995
400005	303+46.87	0.0000	348549.5246	652437.4319

NOTES:
1. HORIZONTAL COORDINATES WERE BASED ON NAD 83. GPS ELEVATIONS WERE BASED ON NAVD 88.
2. OFFSETS SHOWN IN THE ALIGNMENT CONTROL TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE BASELINE.
3. CURVE DATA FOR ALL CURVES SHOWN ON THIS SHEET CAN BE FOUND ON THE FOLLOWING SHEET.

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 90 180 270 FEET

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT T200412201
COUNTY KENT
BRIDGE NO.
DESIGNED BY: MATTHEW VINCENT
CHECKED BY:

HORIZONTAL AND VERTICAL CONTROL

SHEET NO. 12
TOTAL SHTS. 183

CIRCULAR CURVE NO. ⑥

	STATION	NORTHING	EASTING
Element: Circular			
PC (80010)	717+21.67	347345.8594	652754.1654
PI (80054)	720+21.65	347643.6627	652718.0366
CC ( )		347309.7290	652456.3490
PT (80011)	721+92.89	347607.5470	652420.2318

Radius: 300.0000
Delta: 89°59'50.9413" Left
Degree of Curvature(Arc): 19°05'54.9354"
Length: 471.2257
Tangent: 299.9868
Chord: 424.2548
Middle Ordinate: 87.8633
External: 124.2548
Tangent Direction: N 6°55'01.8596" W
Radial Direction: N 83°04'58.1404" E
Chord Direction: N 51°54'57.3303" W
Radial Direction: N 6°54'52.8009" W
Tangent Direction: S 83°05'07.1991" W

CIRCULAR CURVE NO. ⑦

	STATION	NORTHING	EASTING
Element: Circular			
PC (90002)	800+60.71	347593.6435	652678.8391
PI (80054)	801+22.84	347642.5496	652717.1644
CC ( )		347501.1209	652796.9050
PT (90003)	801+78.52	347650.0299	652778.8464

Radius: 150.00
Delta: 45°00'04.5293" Right
Degree of Curvature(Arc): 38°11'49.8708"
Length: 117.81
Tangent: 62.13
Chord: 114.81
Middle Ordinate: 11.42
External: 12.36
Tangent Direction: N 38°05'02.6697" E
Radial Direction: S 51°54'57.3303" E
Chord Direction: N 60°35'04.9344" E
Radial Direction: S 6°54'52.8009" E
Tangent Direction: N 83°05'07.1991" E

CIRCULAR CURVE NO. ⑧

	STATION	NORTHING	EASTING
Element: Circular			
PC (50001)	400+00.00	347097.9144	653527.9649
PI (50051)	404+40.86	347529.3747	653437.4000
CC ( )		345918.4435	647908.8480
PRC (50003)	408+80.00	347941.9508	653282.0262

Radius: 5741.5700
Delta: 8°46'53.7905" Left
Degree of Curvature(Arc): 0°59'52.4809"
Length: 879.9988
Tangent: 440.8628
Chord: 879.1378
Middle Ordinate: 16.8512
External: 16.9008
Tangent Direction: N 11°51'16.0935" W
Radial Direction: N 78°08'43.9065" E
Chord Direction: N 16°14'42.9887" W
Radial Direction: N 69°21'50.1161" E
Tangent Direction: N 20°38'09.8839" W

CIRCULAR CURVE NO. ⑨

	STATION	NORTHING	EASTING
Element: Circular			
PRC (50003)	408+80.00	347941.9508	653282.0262
PI (50052)	410+76.93	348126.2436	653212.6227
CC ( )		348038.8693	653539.3816
PT (50005)	412+21.80	348251.3010	653364.7455

Radius: 275.0000
Delta: 71°12'47.0997" Right
Degree of Curvature(Arc): 20°50'05.3841"
Length: 341.7983
Tangent: 196.9282
Chord: 320.2187
Middle Ordinate: 51.4156
External: 63.2391
Tangent Direction: N 20°38'09.8839" W
Radial Direction: N 69°21'50.1161" E
Chord Direction: N 14°58'13.6659" E
Radial Direction: S 39°25'22.7842" E
Tangent Direction: N 50°34'37.2158" E

CIRCULAR CURVE NO. ⑩

	STATION	NORTHING	EASTING
Element: Circular			
PC (50006)	414+15.85	348374.5319	653514.6465
PI (50053)	416+71.84	348537.0977	653712.3956
CC ( )		348597.7782	653331.1198
PT (50007)	418+34.85	348753.0208	653574.8835

Radius: 289.0000
Delta: 83°04'05.8717" Left
Degree of Curvature(Arc): 19°49'31.9053"
Length: 418.9966
Tangent: 255.9928
Chord: 383.2523
Middle Ordinate: 72.6660
External: 97.0743
Tangent Direction: N 50°34'37.2158" E
Radial Direction: S 39°25'22.7842" E
Chord Direction: N 9°02'34.2800" E
Radial Direction: N 57°30'31.3441" E
Tangent Direction: N 32°29'28.6559" W

CIRCULAR CURVE NO. ⑪

	STATION	NORTHING	EASTING
Element: Circular			
PC (40002)	302+04.73	348745.5004	653563.0749
CC ( )		348597.7782	653331.1198
PT (40004)	311+16.37	348492.3063	653077.1500

Radius: 275.0000
Delta: 189°56'18.6421" Right
Degree of Curvature(Arc): 20°50'05.3841"
Length: 911.6394
Tangent: -1.0000
Chord: 547.9327
Middle Ordinate: -1.0000
External: -1.0000
Tangent Direction: S 32°29'28.6559" E
Radial Direction: S 57°30'31.3441" W
Chord Direction: S 62°28'40.6651" W
Radial Direction: N 67°26'49.9862" E
Tangent Direction: N 22°33'10.0138" W

CIRCULAR CURVE NO. ⑬

	STATION	NORTHING	EASTING
Element: Circular			
PCC (70003)	632+06.84	347784.9071	653234.8405
PI (70052)	634+14.17	347980.5701	653166.2715
CC ( )		347693.9580	652975.3154
PT (70005)	635+62.15	347968.4909	652959.2938

Radius: 275.0000
Delta: 74°01'38.1164" Left
Degree of Curvature(Arc): 20°50'05.3841"
Length: 355.3053
Tangent: 207.3299
Chord: 331.1027
Middle Ordinate: 55.4146
External: 69.3990
Tangent Direction: N 19°18'45.7842" W
Radial Direction: N 70°41'14.2158" E
Chord Direction: N 56°19'34.8424" W
Radial Direction: N 3°20'23.9006" W
Tangent Direction: S 86°39'36.0994" W

CIRCULAR CURVE NO. ⑭

	STATION	NORTHING	EASTING
Element: Circular			
PC (70006)	637+48.91	347957.6105	652772.8555
PI (70053)	639+18.63	347947.7217	652603.4236
CC ( )		348246.1195	652756.0169
PT (70007)	640+55.83	348090.8756	652512.2540

Radius: 289.0000
Delta: 60°50'55.0937" Right
Degree of Curvature(Arc): 19°49'31.9053"
Length: 306.9206
Tangent: 169.7202
Chord: 292.6991
Middle Ordinate: 39.7956
External: 46.1506
Tangent Direction: S 86°39'35.1295" W
Radial Direction: N 3°20'24.8705" W
Chord Direction: N 62°54'57.3237" W
Radial Direction: N 57°30'30.2231" E
Tangent Direction: N 32°29'29.7769" W

CIRCULAR CURVE NO. ⑮

	STATION	NORTHING	EASTING
Element: Circular			
PC (60002)	501+92.41	348098.3961	652524.0626
PI (60051)	504+14.86	347910.7633	652643.5592
CC ( )		348246.1195	652756.0169
PT (60003)	505+66.50	347988.4203	652852.0175

Radius: 275.0000
Delta: 77°56'24.9350" Left
Degree of Curvature(Arc): 20°50'05.3841"
Length: 374.0864
Tangent: 222.4533
Chord: 345.9033
Middle Ordinate: 61.1947
External: 78.7096
Tangent Direction: S 32°29'29.7769" E
Radial Direction: S 57°30'30.2231" W
Chord Direction: S 71°27'42.2444" E
Radial Direction: S 20°25'54.7118" E
Tangent Direction: N 69°34'05.2882" E

CIRCULAR CURVE NO. ⑯

	STATION	NORTHING	EASTING
Element: Circular			
PC (60004)	505+80.35	347993.2560	652864.9983
PI (60052)	508+55.30	348089.2406	653122.6544
CC ( )		348250.9552	652768.9977
PT (60006)	510+12.27	348346.9127	653026.7129

Radius: 275.0000
Delta: 89°59'25.4593" Left
Degree of Curvature(Arc): 20°50'05.3841"
Length: 431.9229
Tangent: 274.9540
Chord: 388.8762
Middle Ordinate: 80.5294
External: 113.8762
Tangent Direction: N 69°34'05.2851" E
Radial Direction: S 20°25'54.7149" E
Chord Direction: N 24°34'22.5555" E
Radial Direction: N 69°34'39.8258" E
Tangent Direction: N 20°25'20.1742" W

CIRCULAR CURVE NO. ㉑

	STATION	NORTHING	EASTING
Curve Set Type: Circular			
PC (400002)	300+84.98	348328.6081	652369.1497
PI (400003)	302+37.03	348456.8600	652287.4707
CC ( )		348409.1845	652495.6702
PT (400004)	303+22.64	348536.7884	652416.8207

Total Central Angle: 90°46'43.2812" Right
First Subtangent Distance: 152.0526
Second Subtangent Distance: 152.0526
External: 63.5884

Radius: 150.0000
Delta: 90°46'43.2812"
Length: 237.6581
Degree of Curvature(Arc): 38°11'49.8708"
Tangent: 152.0526
Chord: 213.5686
Middle Ordinate: 44.6572
External: 63.5884

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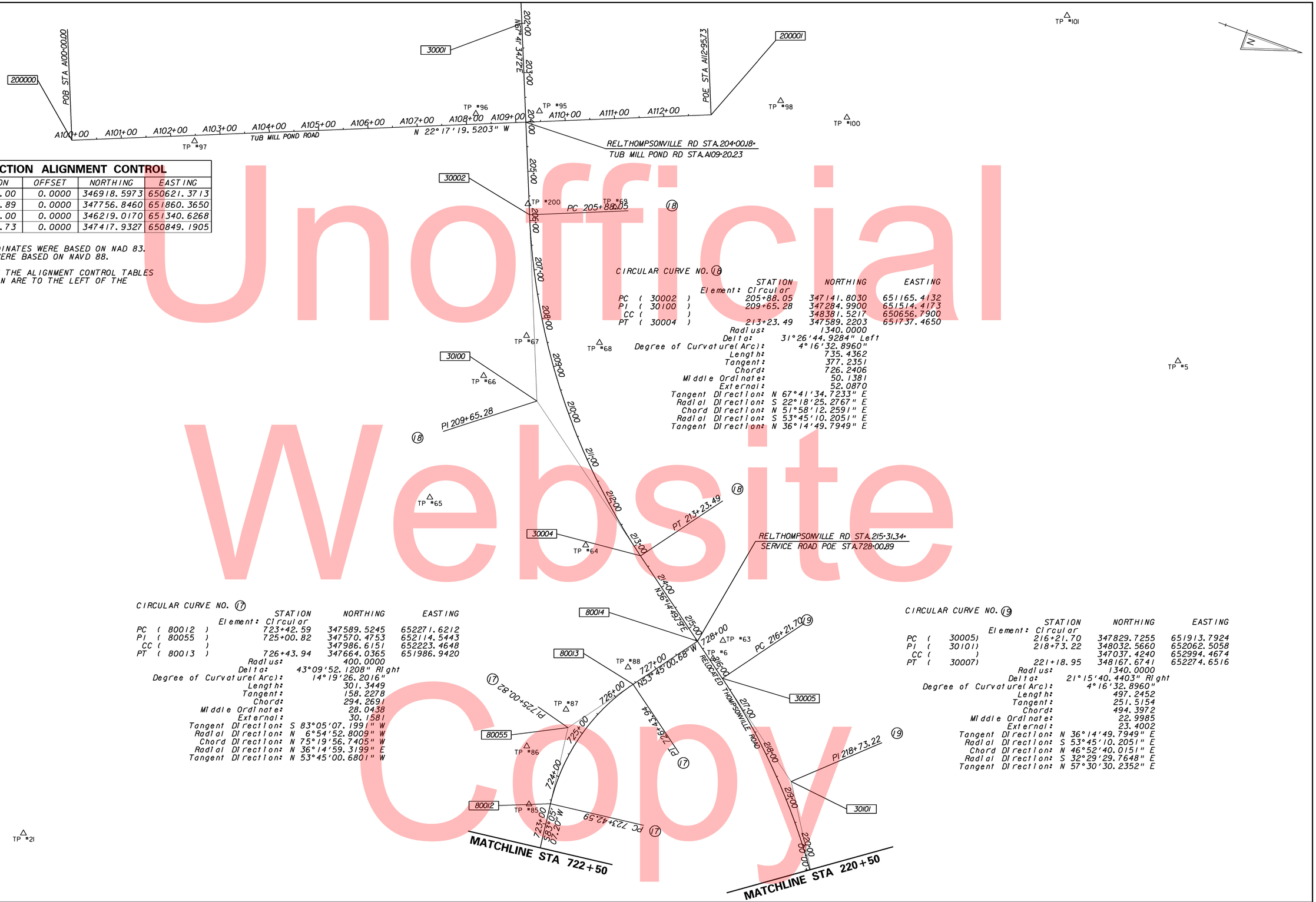
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201	BRIDGE NO.	HORIZONTAL AND VERTICAL CONTROL
				COUNTY KENT	DESIGNED BY: MATTHEW VINCENT	SHEET NO. 13
					CHECKED BY:	TOTAL SHTS. 183



CONSTRUCTION ALIGNMENT CONTROL				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
30001	200+00.00	0.0000	346918.5973	650621.3713
80014	728+00.89	0.0000	347756.8460	651860.3650
200000	100+00.00	0.0000	346219.0170	651340.6268
200001	112+95.73	0.0000	347417.9327	650849.1905

NOTES:
1. HORIZONTAL COORDINATES WERE BASED ON NAD 83. GPS ELEVATIONS WERE BASED ON NAVD 88.
2. OFFSETS SHOWN IN THE ALIGNMENT CONTROL TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE BASELINE

CIRCULAR CURVE NO. (18)

		STATION	NORTHING	EASTING
Element: Circular				
PC	(30002)	205+88.05	347141.8030	651165.4132
PI	(30100)	209+65.28	347284.9900	651514.4173
CC	( )		348381.5217	650656.7900
PT	(30004)	213+23.49	347589.2203	651737.4650

Radius:	1340.0000
Delta:	31°26'44.9284" Left
Degree of Curvature(Arc):	4°16'32.8960"
Length:	735.4362
Tangent:	377.2351
Chord:	726.2406
Middle Ordinate:	50.1381
External:	52.0870
Tangent Direction:	N 67°41'34.7233" E
Radial Direction:	S 22°18'25.2767" E
Chord Direction:	N 51°58'12.2591" E
Radial Direction:	S 53°45'10.2051" E
Tangent Direction:	N 36°14'49.7949" E

CIRCULAR CURVE NO. (17)

		STATION	NORTHING	EASTING
Element: Circular				
PC	(80012)	723+42.59	347589.5245	652271.6212
PI	(80055)	725+00.82	347570.4753	652114.5443
CC	( )		347986.6151	652223.4648
PT	(80013)	726+43.94	347664.0365	651986.9420

Radius:	400.0000
Delta:	43°09'52.1208" Right
Degree of Curvature(Arc):	14°19'26.2016"
Length:	301.3449
Tangent:	158.2278
Chord:	294.2691
Middle Ordinate:	28.0438
External:	30.1581
Tangent Direction:	S 83°05'07.1991" W
Radial Direction:	N 6°54'52.8009" W
Chord Direction:	N 75°19'56.7405" W
Radial Direction:	N 36°14'59.3199" E
Tangent Direction:	N 53°45'00.6801" W

CIRCULAR CURVE NO. (19)

		STATION	NORTHING	EASTING
Element: Circular				
PC	(30005)	216+21.70	347829.7255	651913.7924
PI	(30101)	218+73.22	348032.5660	652062.5058
CC	( )		347037.4240	652994.4674
PT	(30007)	221+18.95	348167.6741	652274.6516

Radius:	1340.0000
Delta:	21°15'40.4403" Right
Degree of Curvature(Arc):	4°16'32.8960"
Length:	497.2452
Tangent:	251.5154
Chord:	494.3972
Middle Ordinate:	22.9985
External:	23.4002
Tangent Direction:	N 36°14'49.7949" E
Radial Direction:	S 53°45'10.2051" E
Chord Direction:	N 46°52'40.0151" E
Radial Direction:	S 32°29'29.7648" E
Tangent Direction:	N 57°30'30.2352" E

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 90 180 270 FEET

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT T200412201
COUNTY KENT
BRIDGE NO.
DESIGNED BY: MATTHEW VINCENT
CHECKED BY:

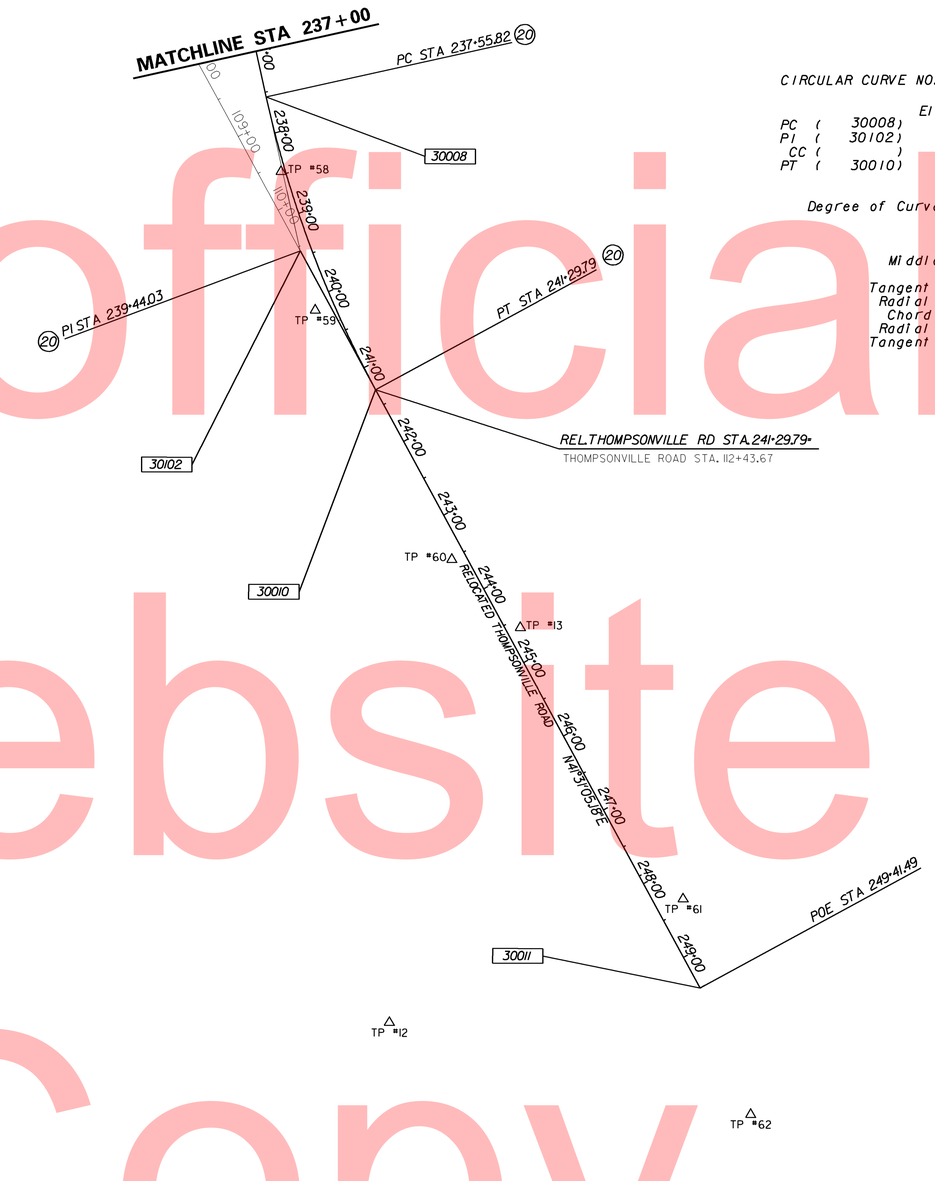
HORIZONTAL AND VERTICAL CONTROL

SHEET NO. 14
TOTAL SHTS. 183

CONSTRUCTION ALIGNMENT CONTROL				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
30011	249+41.49	0.0000	349896.7388	654476.8450

NOTES:
1. HORIZONTAL COORDINATES WERE BASED ON NAD 83. GPS ELEVATIONS WERE BASED ON NAVD 88.

2. OFFSETS SHOWN IN THE ALIGNMENT CONTROL TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE BASELINE



CIRCULAR CURVE NO. (20)

		STATION	NORTHING	EASTING
Element: Circular				
PC (	30008)	237+55.82	349046.9600	653655.3007
PI (	30102)	239+44.03	349148.0614	653814.0493
CC (	)		350177.2101	652935.4848
PT (	30010)	241+29.79	349288.9821	653938.8049
Radius:		1340.0000		
Delta:		15°59'25.0561" Left		
Degree of Curvature(Arc):		4°16'32.8960"		
Length:		373.9716		
Tangent:		188.2090		
Chord:		372.7591		
Middle Ordinate:		13.0250		
External:		13.1528		
Tangent Direction:		N 57°30'30.2352" E		
Radial Direction:		S 32°29'29.7648" E		
Chord Direction:		N 49°30'47.7072" E		
Radial Direction:		S 48°28'54.8209" E		
Tangent Direction:		N 41°31'05.1791" E		

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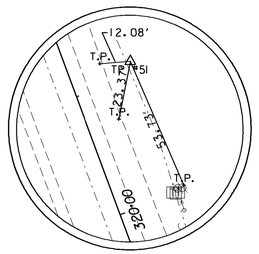
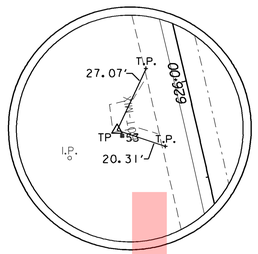
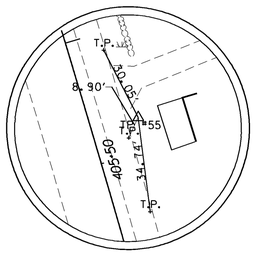
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 90 180 270 FEET	SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201	BRIDGE NO.	HORIZONTAL AND VERTICAL CONTROL	SHEET NO. 15
				COUNTY KENT	DESIGNED BY: MATTHEW VINCENT		TOTAL SHTS. 183
					CHECKED BY:		



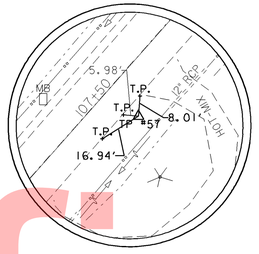
TRAVERSE POINT # 51



TRAVERSE POINT # 53



TRAVERSE POINT # 55



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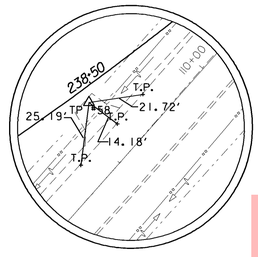

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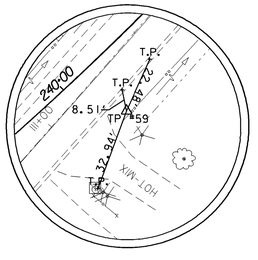
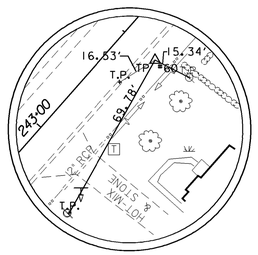
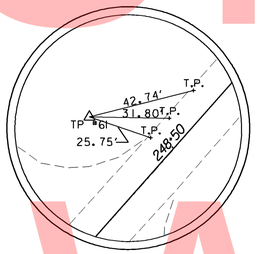


TRAVERSE POINT # 59



TRAVERSE POINT # 60



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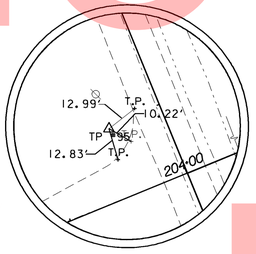

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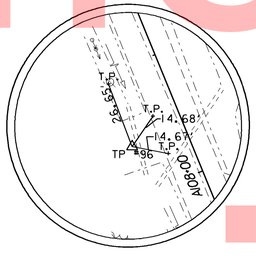
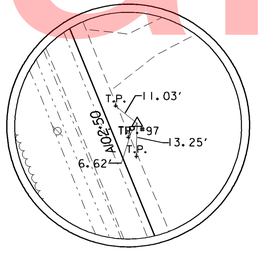
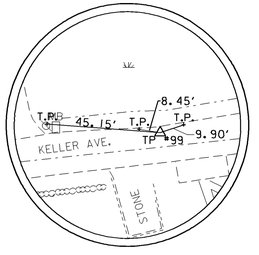


TRAVERSE POINT # 96



TRAVERSE POINT # 97



TRAVERSE POINT # 99

HORIZONTAL / VERTICAL CONTROL DATA

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
1	84+15.31	-24.9948	351364.9771	651968.0661	29.39
2	67+32.43	-46.9540	349780.2103	652534.7049	23.43
3	83+81.21	-518.0009	351160.9950	651517.9451	29.36
4	76+52.86	-1032.6409	350298.8508	651289.7987	27.79
5	215+99.79	-1125.1853	348477.3373	650993.4005	27.66
6	215+77.24	-6.8169	347797.8939	651882.0023	27.66
7	633+57.84	34.5071	347933.7122	653171.0515	23.94
8	36+00.28	-31.2802	346824.5678	653534.6321	26.45
9	28+91.06	128.9960	346128.8019	653763.6366	25.69
10	38+57.89	563.6268	347197.4134	654070.7116	25.75
11	239+24.56	887.3617	348463.6500	654358.4578	25.90
12	247+99.80	345.0948	349561.9025	654641.3150	24.13
13	244+60.42	-16.7958	349547.6768	654145.3925	25.36
14	301+96.42	160.5737	348666.2564	653423.1699	24.10
15	60+01.56	-41.0741	349097.3298	652795.2423	27.19
16	61+77.37	221.3613	349353.6664	652979.8349	34.49
17	62+94.82	349.4525	349508.4307	653058.8923	33.73
18	63+92.69	408.2459	349620.6647	653079.8397	31.19
19	64+30.86	339.9783	349632.6152	653002.5439	34.17
20	708+33.84	-117.7099	346504.1237	652662.8874	27.43
21	709+33.81	-122.9046	346606.1851	652692.2076	27.55
22	706+61.13	-69.2281	346298.2973	652697.7415	27.33
23	33+68.57	336.2503	346640.1046	653931.5869	25.84
50	633+91.60	11.9953	347936.8256	653128.2260	26.09
51	62+74.30	33.1989	349378.8466	652769.6770	29.41
52	514+79.14	-29.3100	348774.2082	652836.3383	27.60
53	625+90.38	-26.9300	347187.0814	653380.3380	26.83

HORIZONTAL / VERTICAL CONTROL DATA

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
54	35+42.28	28.6835	346776.5159	653602.8094	26.27
55	404+65.09	15.47	347553.1101	653428.9421	25.27
56	39+17.82	27.1275	347147.2742	653532.8627	26.76
57	236+60.43	97.6712	348913.3402	653627.3151	26.26
58	238+45.29	5.0568	349093.4307	653732.1027	27.74
59	240+12.95	22.9668	349188.3212	653873.4493	26.79
60	243+50.10	16.3899	349443.0770	654097.1131	26.51
61	248+37.55	-33.3607	349841.0329	654382.9738	26.69
63	215+57.97	-43.8934	347804.2823	651840.7123	27.14
64	212+47.50	82.1678	347476.9855	651754.2305	27.44
65	210+50.83	323.0659	347147.4606	651771.6360	28.09
66	208+80.64	141.2815	347165.4279	651502.5505	28.71
67	208+26.03	37.8537	347219.2287	651396.7601	28.24
68	208+75.49	-102.6517	347362.9847	651359.3660	27.92
69	205+78.59	-173.71	347298.9282	641090.7294	28.78
70	612+66.51	-32.2157	345880.6076	653520.0752	26.45
71	B200+72.04	-26.7058	345950.5028	652846.6528	26.69
72	702+70.96	-41.1441	345908.7763	652733.7159	29.15
73	707+95.85	59.6069	346425.7157	652826.9169	26.60
74	710+60.54	8.3258	346689.6465	652840.8741	26.35
75	712+98.27	-1.6998	346925.3412	652803.4694	26.98
76	715+32.57	-5.9043	347157.4263	652771.0781	27.35
77	718+09.84	12.8132	347435.7503	652742.6544	26.79
78	801+17.29	-2.1817	347632.8946	652719.7574	26.54
79	720+08.70	77.5688	347642.2838	652635.1380	26.91
80	905+17.33	43.7537	346946.8533	652970.6453	26.29
81	904+97.86	-5.7636	346900.2368	652996.2956	26.19
82	902+64.97	-28.6059	346865.6987	653146.9304	25.66
83	901+21.54	-26.8321	346723.6727	653167.0562	25.92

HORIZONTAL / VERTICAL CONTROL DATA

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
84	721+65.89	17.7511	347627.3306	652446.6056	27.64
85	723+32.72	-42.3919	347548.6294	652286.5244	28.20
86	724+28.63	-84.6650	347504.1083	652177.7776	28.42
87	725+18.28	-56.2573	347553.3112	652080.5715	27.98
88	726+54.91	-35.1460	347642.1827	651957.3093	27.59
89	718+80.44	29.4164	347509.0826	652718.5958	26.44
90	303+79.04	65.5881	348583.8043	653540.0650	22.72
91	304+63.29	61.4981	348519.9491	653529.9305	22.19
92	305+49.98	40.4727	348448.7867	653512.2402	22.77
94	413+59.96	-1.2015	348339.9664	653470.7082	23.10
95	203+78.06	-28.4296	347088.3999	650960.3487	27.35
96	A108+19.64	-22.2763	346968.9674	651009.1466	26.41
97	A102+47.96	10.5490	346452.4528	651256.3421	25.15
98	203+76.93	-517.6432	347540.5731	650773.6121	28.67
99	631+50.04	-90.9062	347702.0071	653167.2675	25.47
100	204+15.92	-650.2936	347678.0939	650759.3294	27.27
101	202+27.69	-1104.2428	348026.6252	650412.8821	26.75
102	905+13.53	-181.6040	346723.8372	653003.2689	26.12
103	901+29.48	-132.8781	346717.9730	653060.8659	25.83
104	901+34.03	-81.9788	346728.9961	653110.7645	25.60
200	205+64.73	2.4764	347130.6608	651144.7794	29.21

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

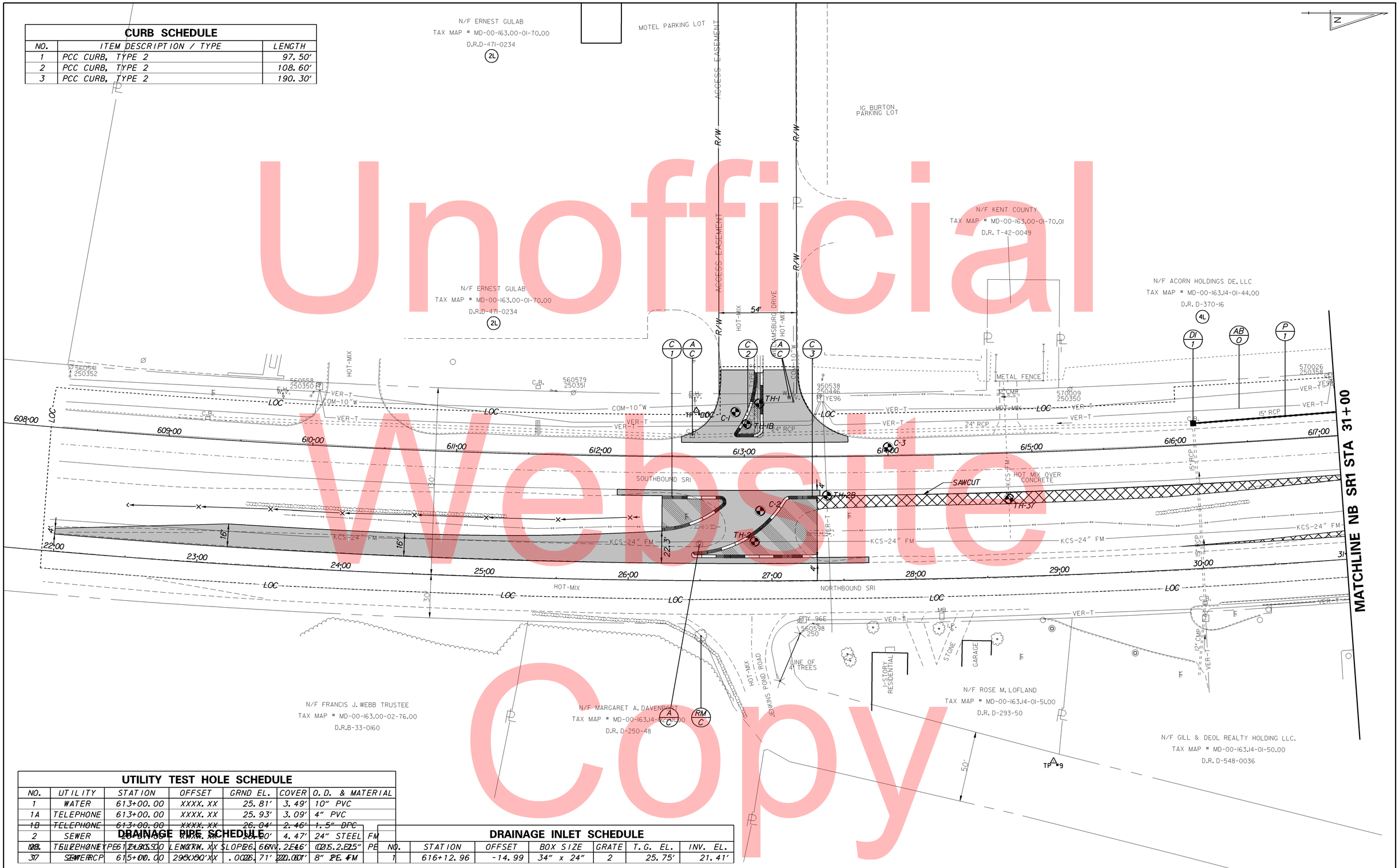
SCALE
0 30 60 90
FEET

SR1, THOMPSONVILLE
GRADE SEPARATED
INTERSECTION

CONTRACT	BRIDGE NO.	
T200412201	DESIGNED BY:	MATTHEW VINCENT
COUNTY	CHECKED BY:	
KENT		

TRAVERSE POINT DIAGRAMS

SHEET NO.
16
TOTAL SHTS.
183



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CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	PCC CURB, TYPE 2	97.50'
2	PCC CURB, TYPE 2	108.60'
3	PCC CURB, TYPE 2	190.30'

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
1	WATER	613+00.00	XXXX.XX	25.81'	3.49'	10" PVC
1A	TELEPHONE	613+00.00	XXXX.XX	25.93'	3.09'	4" PVC
1B	TELEPHONE	613+00.00	XXXX.XX	26.04'	2.46'	1.5" DPC
2	SEWER	20+37.00	XXXX.XX	20.20'	4.47'	24" STEEL FM
2B	TELEPHONE	612+80.00	XXXX.XX	26.66'	2.46'	2.25" PE
3	SEWER	615+00.00	295.50'	26.71'	2.01'	8" PE FM

DRAINAGE PIPE SCHEDULE

NO.	TYPE	LENGTH	SLOPE	INV. EL.	OD SIZE	MATERIAL
1	RCP	90.00'	.002	22.00'	15"	

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
1	616+12.96	-14.99	34" x 24"	2	25.75'	21.41'

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	
T200412201	DESIGNED BY:	MATTHEW VINCENT
COUNTY	CHECKED BY:	
KENT		

CONSTRUCTION PLAN

SHEET NO. 17

TOTAL SHTS. 183

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
1A	619+11.14	-14.48'	34" x 24"	2	25.48'	22.00'
2	620+08.55	-26.00'	34" x 18"	2	25.33'	22.29'
3	620+78.37	-25.99'	34" x 18"	2	25.26'	22.50'
4	621+36.14	-25.98'	34" x 18"	2	25.39'	22.67'
5	622+01.94	-26.14'	34" x 18"	2	25.35'	22.91'
6	623+04.18	-18.00'	34" x 24"	2	26.37'	23.26'
7	625+01.05	48.12'	34" x 24"	2	25.46'	22.50'

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
2	18" RCP	IV	96.0'	.0030	22.29'	22.01'
3	18" RCP	IV	68.0'	.0030	22.50'	22.30'
4	18" RCP	IV	56.0'	.0030	22.67'	22.51'
5	15" RCP	IV	64.0'	.0035	22.91'	22.68'
6	15" RCP	IV	100.0'	.0035	23.26'	22.91'
7	18" RCP	IV	280.0'	.0040	22.50'	21.38'

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
1	6" PVC	337.16'	619+50.00'	-23.78'	29.22'	2.17'	1" DBC
2	6" PVC	100.00'	620+08.00'	-23.42'	30.64'	1.85'	1" DBC

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
1	CONCRETE	902+78.13	-30.00'	346904.3359	653217.3187
2	CONCRETE	902+80.60	26.67'	346960.2238	653207.6132

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
4	PCC CURB, TYPE 2	110.63'

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
3	TELEPHONE	619+50.00	-23.78'	29.22'	2.17'	1" DBC
4	TELEPHONE BY TEL. MANHOLE	620+08.00	-23.42'	30.64'	1.85'	1" DBC
5	TELEPHONE	620+78.00	-21.83'	31.35'	2.07'	1" DBC
6	TELEPHONE	621+33.00	-20.11'	32.43'	2.47'	1" DBC
7	SEWER	621+85.00	63.49'	26.71'	4.30'	24" STEEL FM
8	TELEPHONE	622+10.00	-18.98'	26.31'	1.94'	1" DBC
8A	TELEPHONE	623+00.00	-19.15'	26.59'	1.95'	1" DBC
9	TELEPHONE	625+00.00	-17.59'	26.26'	2.03'	1" DBC

MATCHLINE STA 903+75

MATCHLINE NB SR1 STA 31+00

MATCHLINE NB SR1 STA 40+00

N/F ACORN HOLDINGS (DE), LLC
TAX MAP # MD-00-163.14-01-039.00
D.R. D-2202-0173

N/F DAVID LEE KING
TAX MAP # MD-00-163.14-01-037.00
D.R. P-54-114

N/F GREATER LOVE TEMPLE CHURCH
TAX MAP # MD-00-163.14-01-038.00
D.R. R-54-76

N/F STATE OF DELAWARE
TAX MAP # MD-00-163.14-01-017.00
D.R. D-596-0062

N/F THOMAS P. WEBB
TAX MAP # MD-00-163.14-01-042.00
D.R.N-IS-20-441

N/F DELBERT J. SR. & MARTHA A. COVERDALE
TAX MAP # MD-00-163.14-01-041.00
D.R.N-D-462-189

N/F WILLIAM T. JR. & EMMA J. WADKINS
TAX MAP # MD-00-163.14-01-040.00
D.R. D-579-0291

N/F DAVID LEE KING
TAX MAP # MD-00-163.14-01-036.00
D.R.N-049-0205

N/F ACORN HOLDINGS DE, LLC
TAX MAP # MD-00-163.14-01-44.00
D.R. D-370-16

N/F JACOB STRAHLE
TAX MAP # MD-00-163.14-01-49.00
D.R. D-214-277

N/F ROBERT A. DEBROSSE
TAX MAP # MD-00-163.14-01-48.00
D.R. D-357-33

N/F VINCENT D. PHILLIPS
TAX MAP # MD-00-163.14-01-45.00
D.R. D-643-0101

N/F RICHARD P. HART
TAX MAP # MD-00-163.14-01-55.00
D.R. X-047-0239

N/F VICTOR C. ELZEY III
TAX MAP # MD-00-163.14-01-32.00
D.R. C-43-0332

N/F ALPHONSE A. WOLSKI
TAX MAP # MD-00-163.14-01-31.01
D.R. I-35-0085

N/F FLORENCE G. SHARP
TAX MAP #MD-00-163.14-01-30.00
D.R. IS-023-0325

N/F MARGIE L. KAUFFMAN
TAX MAP # MD-00-163.14-01-018.00
D.R. N-42-130

N/F CAROLYN E. DILL
TAX MAP # MD-00-163.14-01-019.00
D.R. P-51-84

I-STORY COMMERCIAL

2-STORY RESIDENTIAL

MOBILE HOME

CATCH BASIN

SOUTHBOUND SR1

NORTHBOUND SR1

GRADE TO DRAIN

PLUG PIPE

SAWCUT

HOT-MIX

HOT MIX OVER CONCRETE

STONE & DIRT

PCC CURB TYPE 2

CHAIN LINK FENCE

WOOD FENCE

POPLAR ST.

EXISTING R/W

LOC

TCE

CZ

KCS-24" FM

15" RCP

18"

30"

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	
T200412201	DESIGNED BY:	MATTHEW VINCENT
COUNTY	CHECKED BY:	
KENT		

CONSTRUCTION PLAN

SHEET NO.
18
TOTAL SHTS.
183

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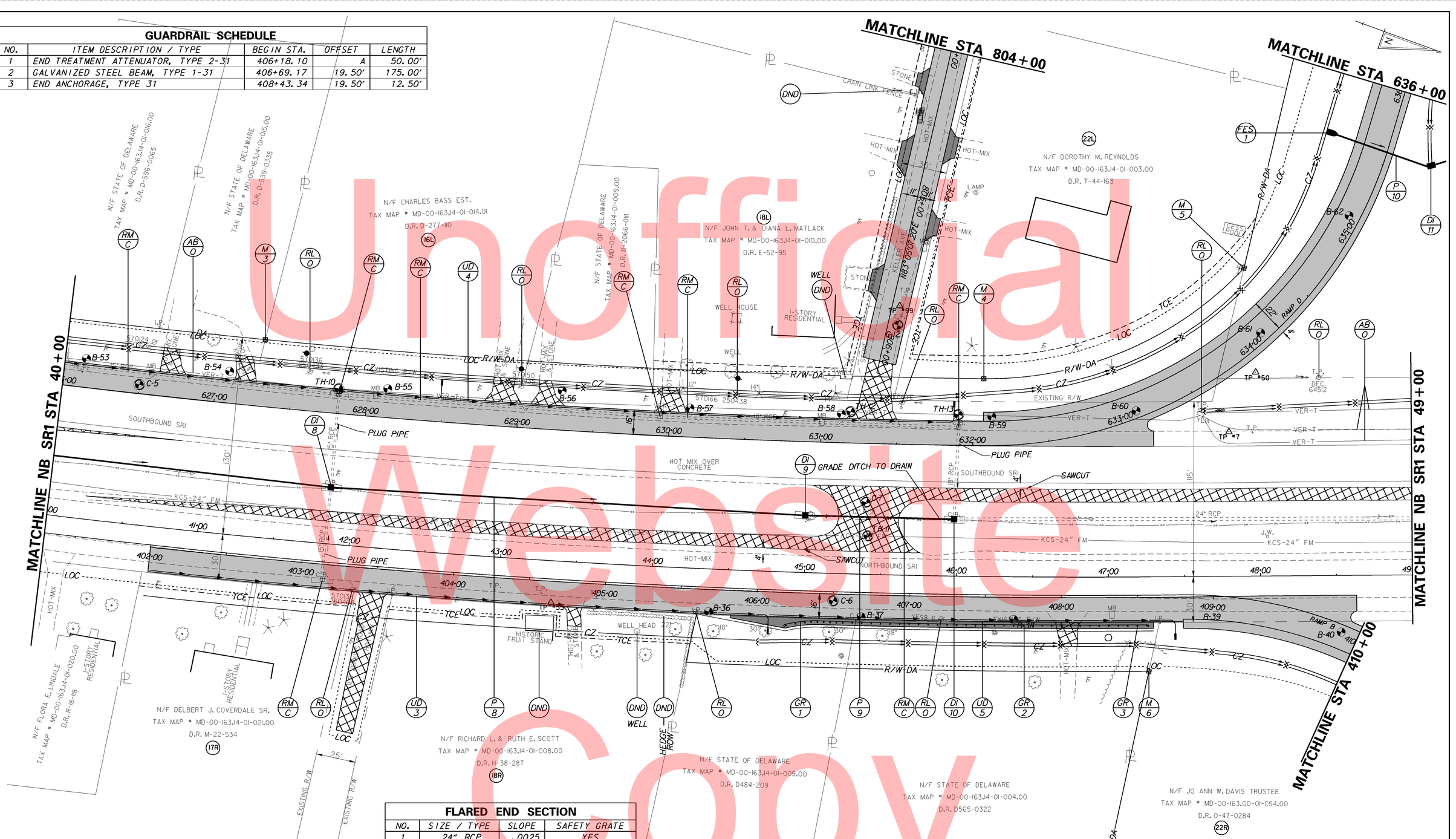
GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
1	END TREATMENT ATTENUATOR, TYPE 2-31	406+18.10	A	50.00'
2	GALVANIZED STEEL BEAM, TYPE 1-31	406+69.17	19.50'	175.00'
3	END ANCHORAGE, TYPE 31	408+43.34	19.50'	12.50'



FLARED END SECTION

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
1	24" RCP	.0025	YES

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
3	CAPPED REBAR	627+29.68	-44.00'	347317.4697	653330.8320
4	CONCRETE	632+06.85	-44.00'	347770.3554	653193.3164
5	CONCRETE	634+34.50	-44.00'	347906.1903	653066.5212
6	CONCRETE	408+57.27	50.00'	347938.0965	653336.8573

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
8	24" RCP	IV	311.50'	.005	21.37'	19.81'
9	24" RCP	IV	96.00'	.005	19.80'	19.32'
10	24" RCP	IV	64.00'	.0025	20.97'	20.81'

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. EL.
3	6" PEP	406.00'	22.87'
4	6" PEP	335.00'	22.61'
5	6" PEP	265.00'	21.97'

*=SET IN FIELD BY THE ENGINEER

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
8	627+81.58	48.74'	34" x 24"	2	25.46'	21.37'
9	630+91.41	48.54'	34" x 24"	2	24.04'	19.80'
10	631+88.58	48.76'	34" x 24"	2	24.11'	19.16'
11	635+58.90	30.31'	66" x 48"	2	24.25'	20.80'

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	
T200412201	DESIGNED BY:	MATTHEW VINCENT
COUNTY	CHECKED BY:	
KENT		

CONSTRUCTION PLAN

SHEET NO.
19
TOTAL SHTS.
183

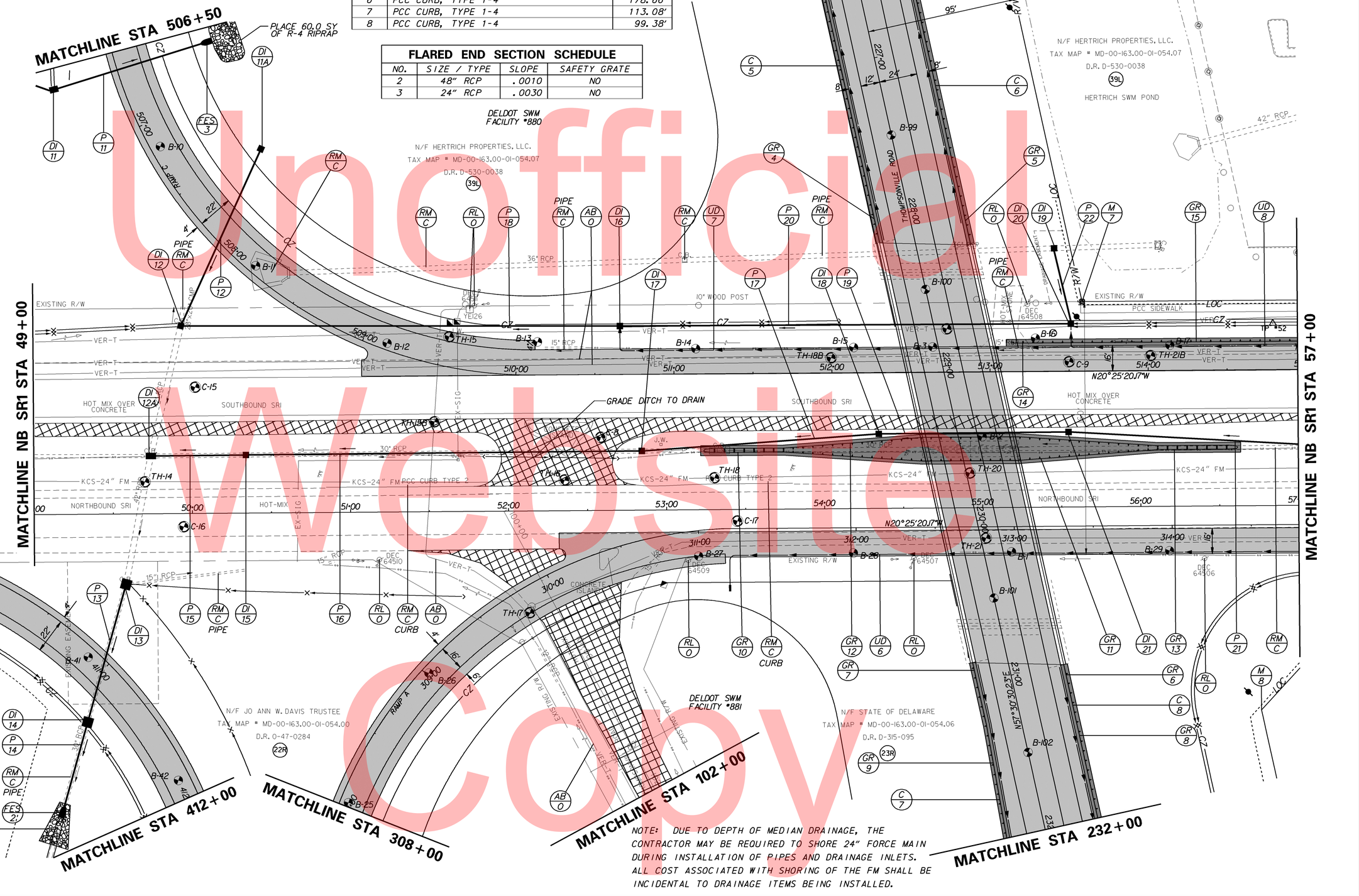
NOTE: SCHEDULE BOXES FOR THIS SHEET ARE LOCATED ON FOLLOWING SHEET

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
5	PCC CURB, TYPE 1-4	165.01'
6	PCC CURB, TYPE 1-4	178.66'
7	PCC CURB, TYPE 1-4	113.08'
8	PCC CURB, TYPE 1-4	99.38'

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
2	48" RCP	.0010	NO
3	24" RCP	.0030	NO



NOTE: DUE TO DEPTH OF MEDIAN DRAINAGE, THE CONTRACTOR MAY BE REQUIRED TO SHORE 24" FORCE MAIN DURING INSTALLATION OF PIPES AND DRAINAGE INLETS. ALL COST ASSOCIATED WITH SHORING OF THE FM SHALL BE INCIDENTAL TO DRAINAGE ITEMS BEING INSTALLED.

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201	BRIDGE NO.	CONSTRUCTION PLAN
				COUNTY KENT	DESIGNED BY: MATTHEW VINCENT	SHEET NO. 20
					CHECKED BY:	TOTAL SHTS. 183

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
# 11A	507+54.58	-64.19'	66" x 30"	2	21.00'	16.10'
# 12	508+06.98	54.96'	66" x 66"	2	21.25'	15.02'
# 12A	49+74.04	-36.55'	66" x 66"	2	21.80'	14.85'
# 13	410+75.85	-44.35'	66" x 66"	2	22.40'	13.62'
# 14	410+75.85	-44.35'	66" x 66"	2	20.35'	13.53'
# 15	508+70.66	97.59'	48" x 30"	2	22.85'	14.99'
# 16	510+66.00	-30.66'	48" x 30"	2	23.75'	16.61'
# 17	510+79.27	48.54'	48" x 30"	2	24.34'	15.74'
# 18	512+29.35	38.82'	48" x 30"	2	25.71'	15.99'
# 19	513+41.08	-77.81'	48" x 48"	2	27.28'	18.72'
# 20	513+51.31	-30.00'	48" x 48"	2	25.24'	18.52'
# 21	513+49.35	38.46'	48" x 30"	2	26.58'	16.29'
22	515+29.32	49.23'	48" x 30"	2	26.80'	16.74'
22A	62+34.34	-109.24'	34" x 18"	2	24.96'	22.52'

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. EL.
#6	6" PEP	435.00'	24.29'
#7	6" PEP	298.23'	*
#8	6" PEP	353.11'	*
9	6" PEP	500.00'	24.45'
10	6" PEP	217.00'	23.28'

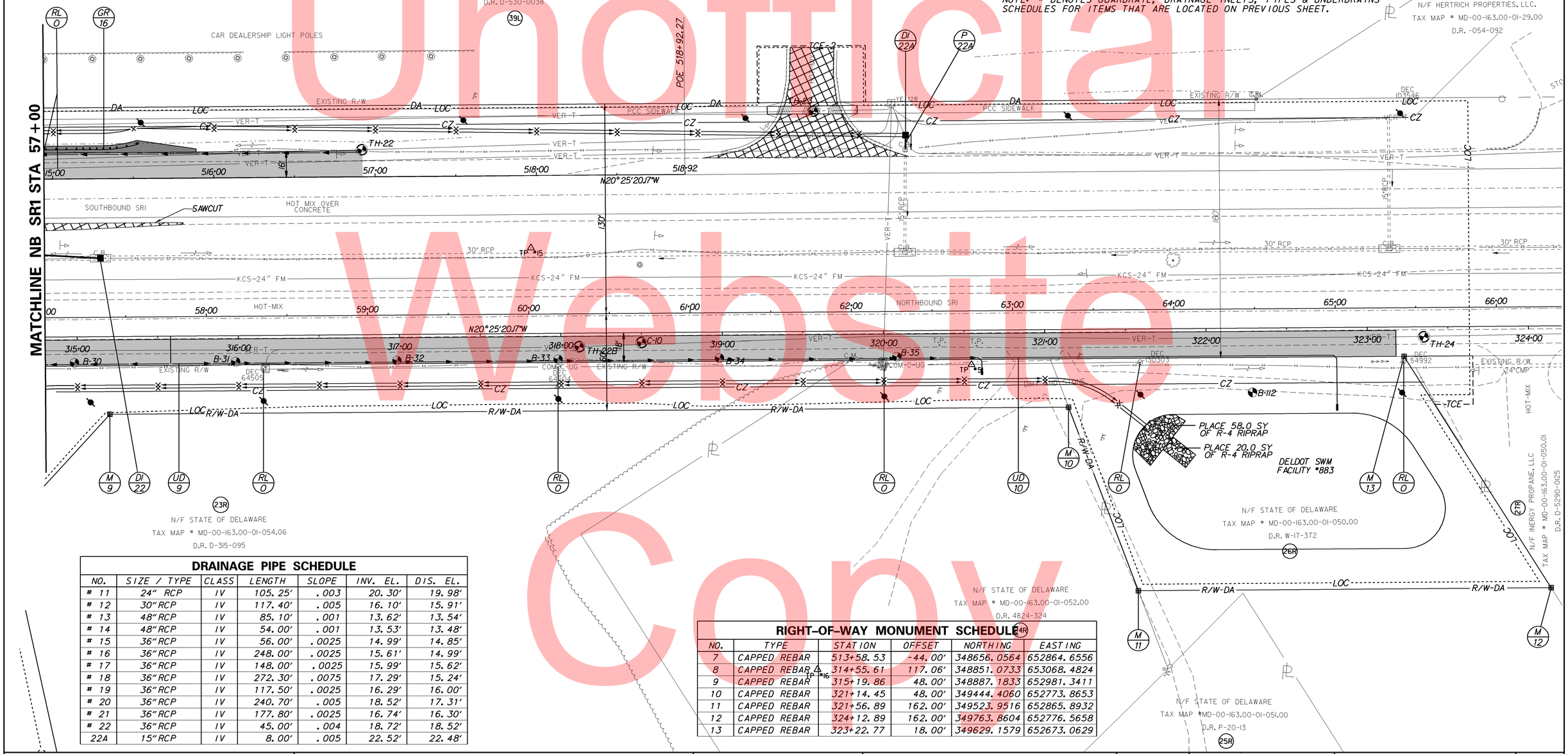
*=SET IN FIELD BY THE ENGINEER

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
# 4	BARRIER CONNECTION, APP. TYPE 1-31	228+15.01	34.00'	22.00'
# 5	BARRIER CONNECTION, APP. TYPE 1-31	228+28.66	-34.00'	22.00'
# 6	BARRIER CONNECTION, APP. TYPE 1-31	231+00.62	-34.00'	22.00'
# 7	BARRIER CONNECTION, APP. TYPE 1-31	230+86.97	34.00'	22.00'
# 8	GALVANIZED STEEL BEAM, TYPE 1-31	231+22.62	-34.00'	212.50'
# 9	GALVANIZED STEEL BEAM, TYPE 1-31	231+08.97	34.00'	270.19'
# 10	END TREATMENT ATTENUATOR, TYPE 3-31	53+24.57	A	50.00'
# 11	GALVANIZED STEEL BEAM, TYPE 1-31	53+74.57	-36.00'	237.05'
# 12	GALVANIZED STEEL BEAM, TYPE 1-31	53+74.57	-38.50'	237.05'
# 13	END TREATMENT ATTENUATOR, TYPE 3-31	56+10.68	A	50.00'
# 14	END ANCHORAGE, TYPE 31	513+15.00	-18.00'	12.50'
# 15	GALVANIZED STEEL BEAM, TYPE 1-31	513+27.50	-18.00'	175.00'
16	END TREATMENT ATTENUATOR, TYPE 2-31	515+02.50	A	50.00'

A = OFFSET ATTENUATORS AS PER STANDARD DETAILS.

NOTE: # DENOTES GUARDRAIL, DRAINAGE INLETS, PIPES & UNDERDRAINS SCHEDULES FOR ITEMS THAT ARE LOCATED ON PREVIOUS SHEET.



DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
# 11	24" RCP	IV	105.25'	.003	20.30'	19.98'
# 12	30" RCP	IV	117.40'	.005	16.10'	15.91'
# 13	48" RCP	IV	85.10'	.001	13.62'	13.54'
# 14	48" RCP	IV	54.00'	.001	13.53'	13.48'
# 15	36" RCP	IV	56.00'	.0025	14.99'	14.85'
# 16	36" RCP	IV	248.00'	.0025	15.61'	14.99'
# 17	36" RCP	IV	148.00'	.0025	15.99'	15.62'
# 18	36" RCP	IV	272.30'	.0075	17.29'	15.24'
# 19	36" RCP	IV	117.50'	.0025	16.29'	16.00'
# 20	36" RCP	IV	240.70'	.005	18.52'	17.31'
# 21	36" RCP	IV	177.80'	.0025	16.74'	16.30'
# 22	36" RCP	IV	45.00'	.004	18.72'	18.52'
22A	15" RCP	IV	8.00'	.005	22.52'	22.48'

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
7	CAPPED REBAR	513+58.53	-44.00'	348656.0564	652864.6556
8	CAPPED REBAR	314+55.61	117.06'	348851.0733	653068.4824
9	CAPPED REBAR	315+19.86	48.00'	348887.1833	652981.3411
10	CAPPED REBAR	321+14.45	48.00'	349444.4060	652773.8653
11	CAPPED REBAR	321+56.89	162.00'	349523.9516	652865.8932
12	CAPPED REBAR	324+12.89	162.00'	349763.8604	652776.5658
13	CAPPED REBAR	323+22.77	18.00'	349629.1579	652673.0629

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	
T200412201	DESIGNED BY:	MATTHEW VINCENT
COUNTY	CHECKED BY:	
KENT		

CONSTRUCTION PLAN

SHEET NO.
21
TOTAL SHTS.
183

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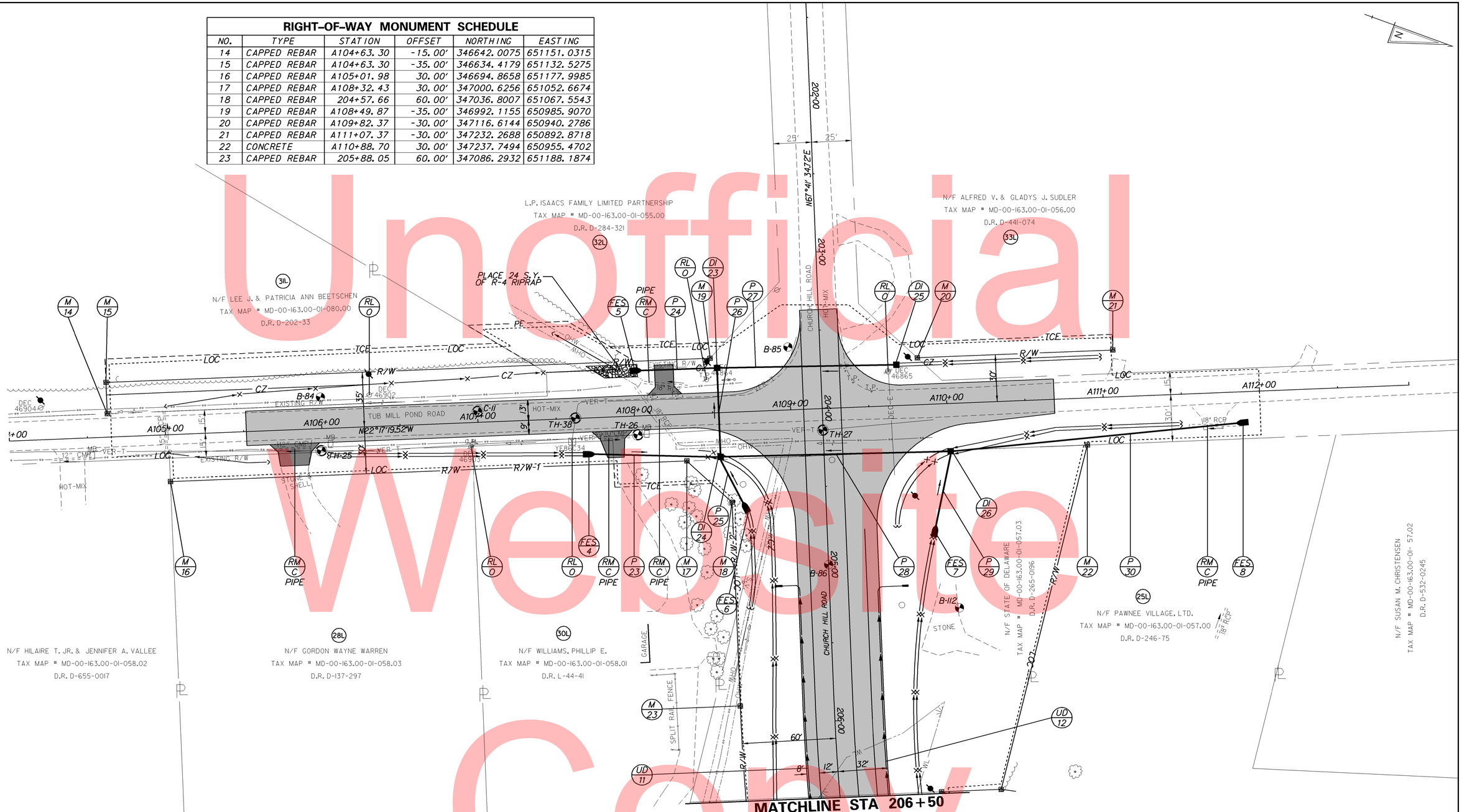
RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
14	CAPPED REBAR	A104+63.30	-15.00'	346642.0075	651151.0315
15	CAPPED REBAR	A104+63.30	-35.00'	346634.4179	651132.5275
16	CAPPED REBAR	A105+01.98	30.00'	346694.8658	651177.9985
17	CAPPED REBAR	A108+32.43	30.00'	347000.6256	651052.6674
18	CAPPED REBAR	204+57.66	60.00'	347036.8007	651067.5543
19	CAPPED REBAR	A108+49.87	-35.00'	346992.1155	650985.9070
20	CAPPED REBAR	A109+82.37	-30.00'	347116.6144	650940.2786
21	CAPPED REBAR	A111+07.37	-30.00'	347232.2688	650892.8718
22	CONCRETE	A110+88.70	30.00'	347237.7494	650955.4702
23	CAPPED REBAR	205+88.05	60.00'	347086.2932	651188.1874



UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. EL.
11	6" PEP	330.00'	26.22'
12	6" PEP	290.00'	25.26'

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
23	108+54.05	-28.64'	48" x 48"	2	25.90'	22.50'
24	108+54.05	28.28'	48" x 48"	2	25.76'	22.63'
25	109+68.77	-26.07'	34" x 18"	2	25.70'	22.97'
26	110+01.23	30.57'	48" x 30"	2	26.20'	22.99'

FLARED END SECTION

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
4	15" RCP	.0050	YES
5	22"x34" RCP	.0025	NO
6	15" RCP	.0500	YES
7	15" RCP	.0100	YES
8	18" RCP	.0030	YES

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
23	15" RCP	IV	80.00'	.0050	23.98'	23.58'
24	22"x34" RCP	IV	48.00'	.0025	22.50'	22.38'
25	15" RCP	IV	32.00'	.0500	24.50'	22.90'
26	19"x30" RCP	IV	53.00'	.0025	22.63'	22.50'
27	18" RCP	IV	112.00'	.0035	22.97'	22.58'
28	19"x30" RCP	IV	144.00'	.0025	22.99'	22.63'
29	15" RCP	IV	48.00'	.0100	23.57'	23.09'
30	18" RCP	IV	184.00'	.0030	23.54'	22.99'

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

SR1, THOMPSONVILLE
GRADE SEPARATED
INTERSECTION

CONTRACT	BRIDGE NO.	
T200412201	DESIGNED BY:	MATTHEW VINCENT
COUNTY	CHECKED BY:	
KENT		

CONSTRUCTION PLAN

SHEET NO.
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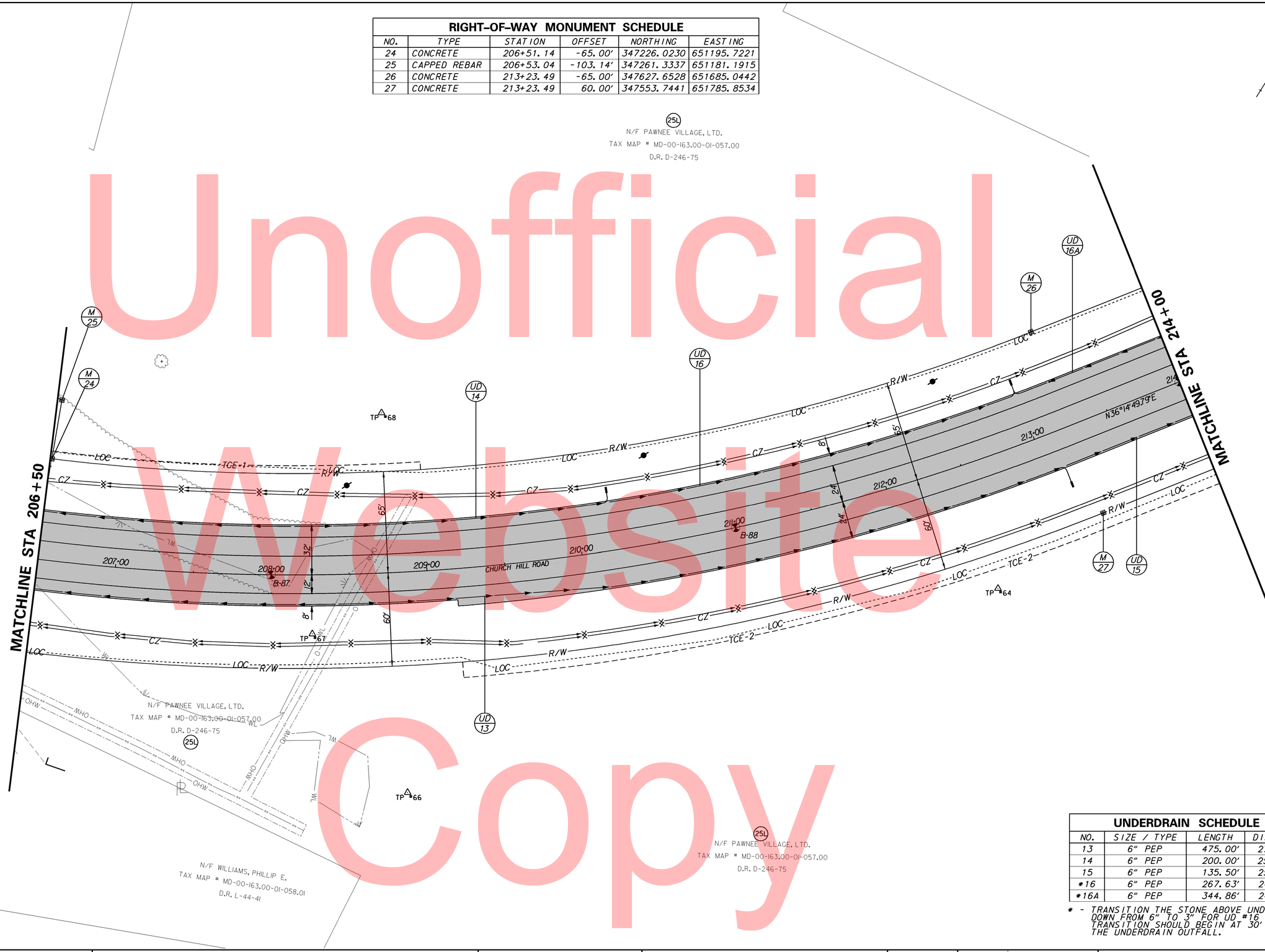
TOTAL SHTS.
183

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
24	CONCRETE	206+51.14	-65.00'	347226.0230	651195.7221
25	CAPPED REBAR	206+53.04	-103.14'	347261.3337	651181.1915
26	CONCRETE	213+23.49	-65.00'	347627.6528	651685.0442
27	CONCRETE	213+23.49	60.00'	347553.7441	651785.8534



UNDERDRAIN SCHEDULE			
NO.	SIZE / TYPE	LENGTH	DIS. EL.
13	6" PEP	475.00'	27.04'
14	6" PEP	200.00'	25.75'
15	6" PEP	135.50'	25.25'
#16	6" PEP	267.63'	24.75'
#16A	6" PEP	344.86'	24.75'

- TRANSITION THE STONE ABOVE UNDERDRAIN DOWN FROM 6" TO 3" FOR UD #16 & #16A. TRANSITION SHOULD BEGIN AT 30' FROM THE UNDERDRAIN OUTFALL.

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

SR1, THOMPSONVILLE
GRADE SEPARATED
INTERSECTION

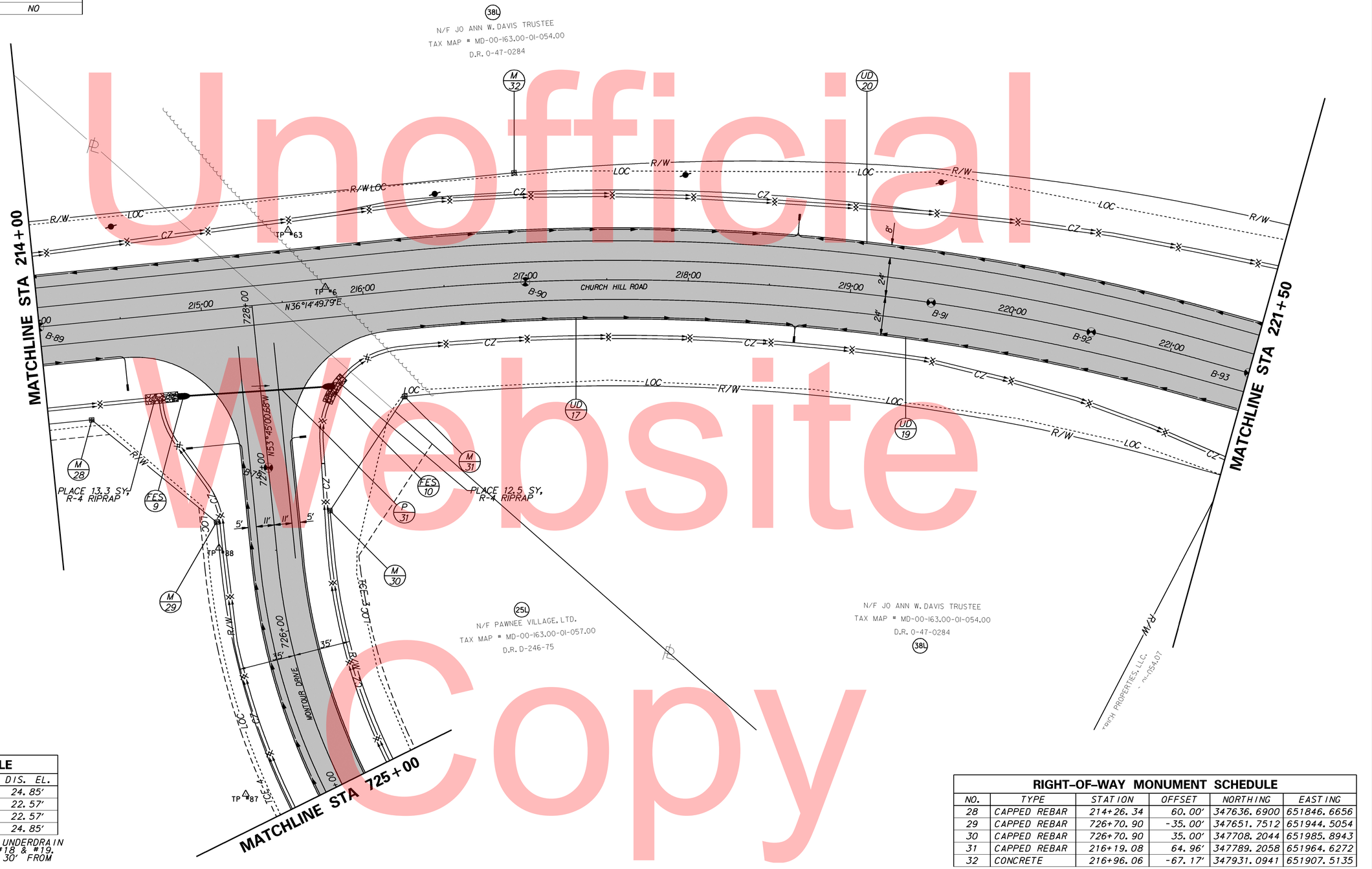
CONTRACT T200412201
COUNTY KENT
BRIDGE NO.
DESIGNED BY: MATTHEW VINCENT
CHECKED BY:

CONSTRUCTION PLAN

SHEET NO. 23
TOTAL SHTS. 183

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
31	14"x23" RCP	IV	84.50'	.0035	24.07'	23.75'

FLARED END SECTION			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
9	14"x23" RCP	.0035	NO
10	14"x23" RCP	.0035	NO



UNDERDRAIN SCHEDULE			
NO.	SIZE / TYPE	LENGTH	DIS. EL.
17	6" PEP	220.76'	24.85'
*18	6" PEP	248.27'	22.57'
*19	6" PEP	299.67'	22.57'
20	6" PEP	333.42'	24.85'

* - TRANSITION THE STONE ABOVE UNDERDRAIN DOWN FROM 6" TO 3" FOR UD #18 & #19. TRANSITION SHOULD BEGIN AT 30' FROM THE UNDERDRAIN OUTFALL.

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
28	CAPPED REBAR	214+26.34	60.00'	347636.6900	651846.6656
29	CAPPED REBAR	726+70.90	-35.00'	347651.7512	651944.5054
30	CAPPED REBAR	726+70.90	35.00'	347708.2044	651985.8943
31	CAPPED REBAR	216+19.08	64.96'	347789.2058	651964.6272
32	CONCRETE	216+96.06	-67.17'	347931.0941	651907.5135

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

SR1, THOMPSONVILLE
GRADE SEPARATED
INTERSECTION

CONTRACT	BRIDGE NO.	
T200412201	DESIGNED BY:	MATTHEW VINCENT
COUNTY	CHECKED BY:	
KENT		

CONSTRUCTION PLAN

SHEET NO.
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TOTAL SHTS.
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CURB SCHEDULE

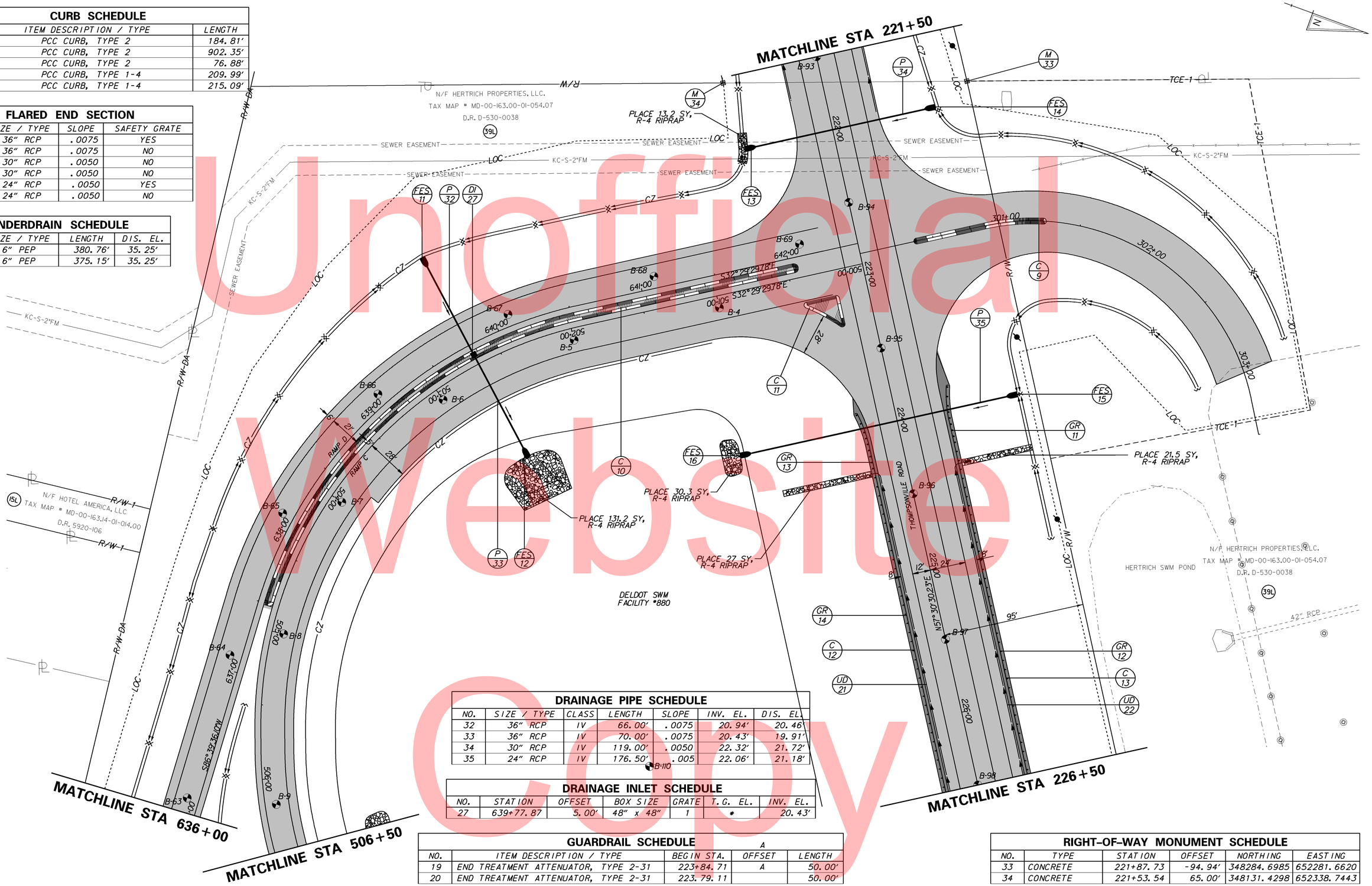
NO.	ITEM DESCRIPTION / TYPE	LENGTH
9	PCC CURB, TYPE 2	184.81'
10	PCC CURB, TYPE 2	902.35'
11	PCC CURB, TYPE 2	76.88'
12	PCC CURB, TYPE 1-4	209.99'
13	PCC CURB, TYPE 1-4	215.09'

FLARED END SECTION

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
11	36" RCP	.0075	YES
12	36" RCP	.0075	NO
13	30" RCP	.0050	NO
14	30" RCP	.0050	NO
15	24" RCP	.0050	YES
16	24" RCP	.0050	NO

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. EL.
21	6" PEP	380.76'	35.25'
22	6" PEP	375.15'	35.25'



DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
32	36" RCP	IV	66.00'	.0075	20.94'	20.46'
33	36" RCP	IV	70.00'	.0075	20.43'	19.91'
34	30" RCP	IV	119.00'	.0050	22.32'	21.72'
35	24" RCP	IV	176.50'	.005	22.06'	21.18'

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
27	639+77.87	5.00'	48" x 48"	1	*	20.43'

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
19	END TREATMENT ATTENUATOR, TYPE 2-31	223+84.71	A	50.00'
20	END TREATMENT ATTENUATOR, TYPE 2-31	223.79.11		50.00'

A = OFFSET ATTENUATORS AS PER STANDARD DETAILS.

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
33	CONCRETE	221+87.73	-94.94'	348284.6985	652281.6620
34	CONCRETE	221+53.54	65.00'	348131.4298	652338.7443

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	
T200412201	DESIGNED BY:	MATTHEW VINCENT
COUNTY	CHECKED BY:	
KENT		

CONSTRUCTION PLAN

SHEET NO. 25
TOTAL SHTS. 183

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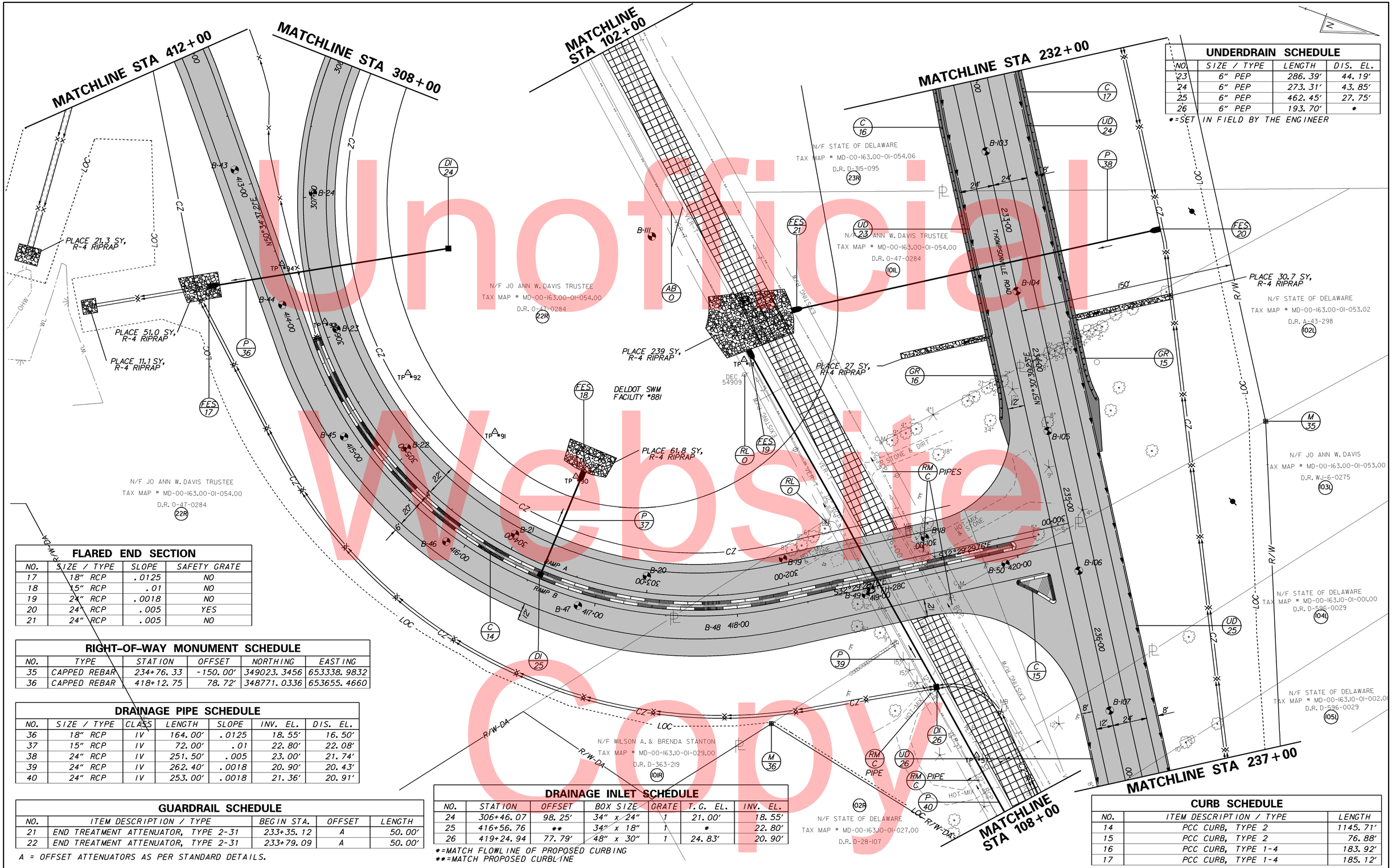


UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. EL.
23	6" PEP	286.39'	44.19'
24	6" PEP	273.31'	43.85'
25	6" PEP	462.45'	27.75'
26	6" PEP	193.70'	*

*=SET IN FIELD BY THE ENGINEER

FLARED END SECTION

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
17	18" RCP	.0125	NO
18	15" RCP	.01	NO
19	24" RCP	.0018	NO
20	24" RCP	.005	YES
21	24" RCP	.005	NO

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
35	CAPPED REBAR	234+76.33	-150.00'	349023.3456	653338.9832
36	CAPPED REBAR	418+12.75	78.72'	348771.0336	653655.4660

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
36	18" RCP	IV	164.00'	.0125	18.55'	16.50'
37	15" RCP	IV	72.00'	.01	22.80'	22.08'
38	24" RCP	IV	251.50'	.005	23.00'	21.74'
39	24" RCP	IV	262.40'	.0018	20.90'	20.43'
40	24" RCP	IV	253.00'	.0018	21.36'	20.91'

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
21	END TREATMENT ATTENUATOR, TYPE 2-31	233+35.12	A	50.00'
22	END TREATMENT ATTENUATOR, TYPE 2-31	233+79.09	A	50.00'

A = OFFSET ATTENUATORS AS PER STANDARD DETAILS.

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
24	306+46.07	98.25'	34" x 24"	1	21.00'	18.55'
25	416+56.76	**	34" x 18"	1	*	22.80'
26	419+24.94	77.79'	48" x 30"	1	24.83'	20.90'

*=MATCH FLOWLINE OF PROPOSED CURBING
**=MATCH PROPOSED CURBLINE

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
14	PCC CURB, TYPE 2	1145.71'
15	PCC CURB, TYPE 2	76.88'
16	PCC CURB, TYPE 1-4	183.92'
17	PCC CURB, TYPE 1-4	185.12'

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

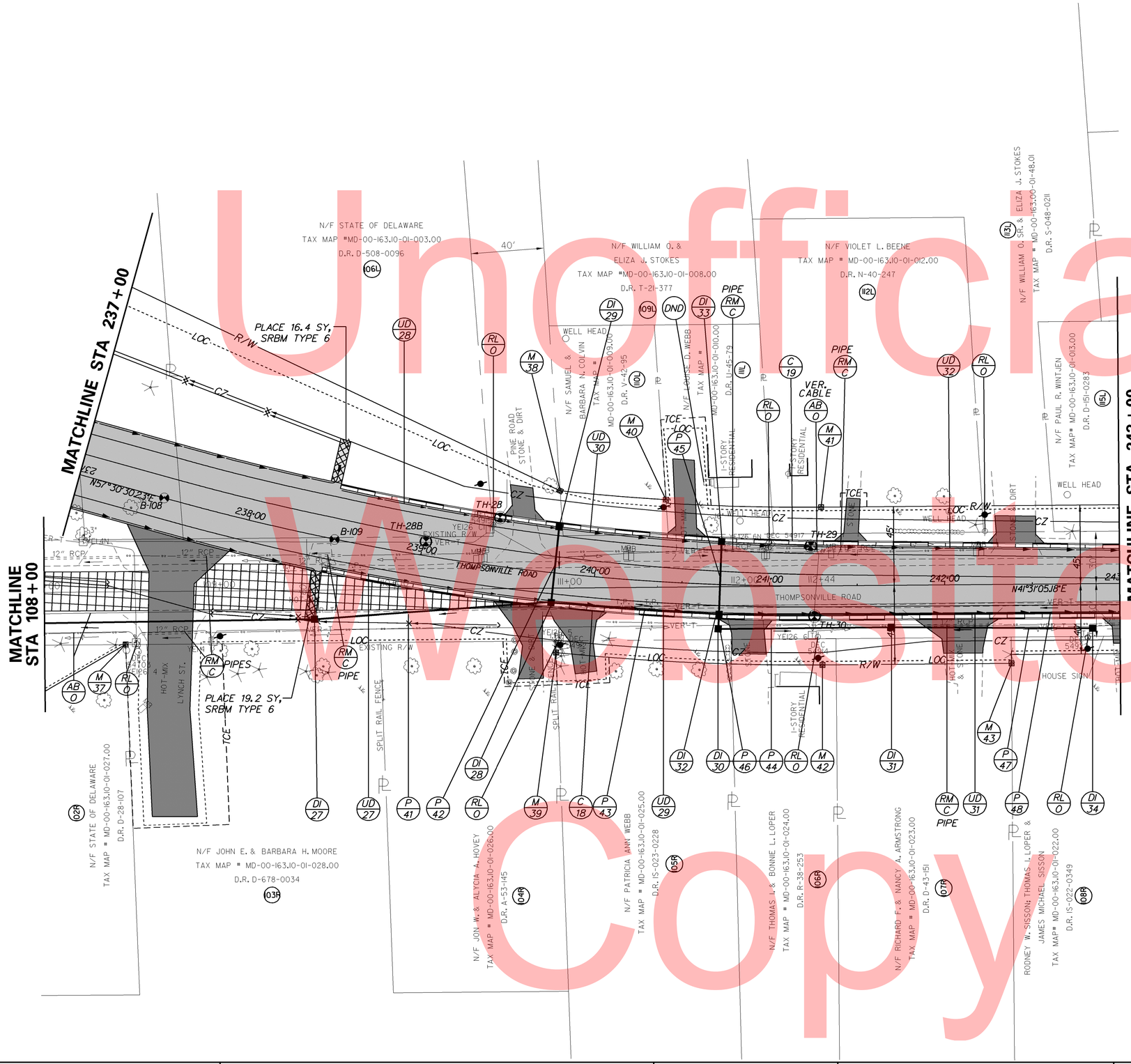
SCALE 0 30 60 90 FEET

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	
T200412201	DESIGNED BY:	MATTHEW VINCENT
COUNTY	CHECKED BY:	
KENT		

CONSTRUCTION PLAN

SHEET NO.	
26	
TOTAL SHTS.	
183	



UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. EL.
27	6" PEP	131.93'	*
28	6" PEP	126.95'	*
29	6" PEP	94.00'	*
30	6" PEP	91.70'	*
31	6" PEP	239.64'	*
32	6" PEP	238.11'	*

*=SET IN FIELD BY THE ENGINEER

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
37	CAPPED REBAR	237+51.16	86.48'	348971.5192	653697.8255
38	CAPPED REBAR	239+75.29	-47.00'	349214.4499	653798.5850
39	CAPPED REBAR	239+82.56	45.00'	349150.9805	653865.5805
40	CAPPED REBAR	240+38.07	-47.00'	349255.9331	653842.7322
41	CONCRETE	241+29.79	-45.00'	349318.8107	653905.1113
42	CONCRETE	241+29.79	45.00'	349259.1536	653972.4985
43	CAPPED REBAR	242+37.77	45.00'	349340.0051	654044.0754

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
18	INTEGRAL PCC C&G, TYPE 1-4	456.95'
19	INTEGRAL PCC C&G, TYPE 1-4	449.65'

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
27	238+48.00	47.00'	34" x 24"	1	24.70'	21.36'
28	239+77.00	**	48" x 30"	2	*	21.61'
29	239+77.00	**	34" x 18"	2	*	23.08'
30	240+71.75	25.25'	34" x 24"	1	26.75'	22.07'
31	241+69.34	23.86'	34" x 24"	1	26.14'	22.41'
32	240+71.75	**	48" x 30"	2	*	21.90'
33	240+71.75	**	34" x 18"	2	*	22.66'
34	242+84.16	25.34'	34" x 24"	1	25.25'	22.81'

* = MATCH FLOWLINE OF PROPOSED CURBING
** = MATCH PROPOSED CURBLINE

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
41	24" RCP	IV	132.50'	.0018	21.61'	21.37'
42	15" RCP	IV	43.00'	.0035	23.08'	22.93'
43	18" RCP	IV	92.00'	.0030	21.90'	21.62'
44	15" RCP	IV	96.00'	.0035	22.41'	22.07'
45	15" RCP	IV	40.33'	.0075	22.66'	22.36'
46	15" RCP	IV	6.00'	.0050	22.07'	22.04'
47	15" RCP	IV	112.00'	.0035	22.81'	22.42'
48	15" RCP	IV	237.80'	.0035	22.74'	21.91'

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

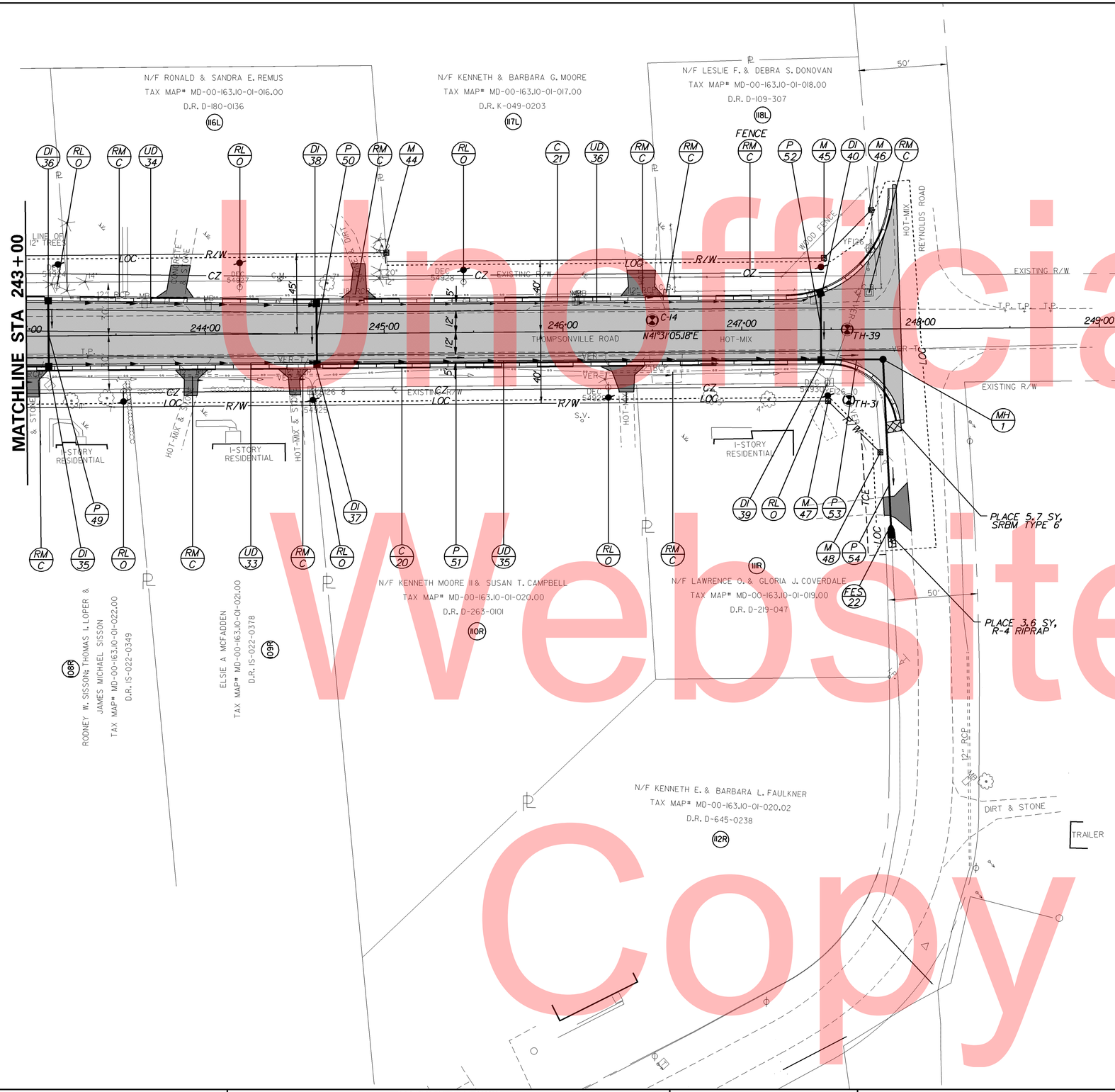
SCALE 0 30 60 90 FEET

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT T200412201
COUNTY KENT
BRIDGE NO.
DESIGNED BY: MATTHEW VINCENT
CHECKED BY:

CONSTRUCTION PLAN

SHEET NO. 27
TOTAL SHTS. 183



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FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
22	14"x23" RCP	.003	NO

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
1	247+78.85	17.00'	48" x 30"	*	21.97'

*=SET IN FIELD BY THE ENGINEER

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. EL.
33	6" PEP	150.00'	*
34	6" PEP	150.19'	*
35	6" PEP	282.00'	*
36	6" PEP	282.77'	*

*=SET IN FIELD BY THE ENGINEER

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
20	INTEGRAL PCC C&G, TYPE 1-4	504.33'
21	INTEGRAL PCC C&G, TYPE 1-4	544.65'

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
44	CAPPED REBAR	245+01.59	-45.00'	349597.1925	6541515596
45	CAPPED REBAR	247+46.31	-40.00'	349777.1154	6543175212
46	CAPPED REBAR	247+72.93	-66.62'	349814.6874	6543152351
47	CAPPED REBAR	247+48.00	40.00'	349725.3497	6543785388
48	CAPPED REBAR	247+76.94	68.94'	349727.8353	6544193894

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
49	15" RCP	IV	35.75'	.0035	22.87'	22.74'
50	15" RCP	IV	33.50'	.0032	23.10'	23.00'
51	15" RCP	IV	278.00'	.0032	22.99'	22.10'
52	15" RCP	IV	36.63'	.005	22.27'	22.09'
53	14"x23" RCP	IV	30.60'	.003	22.08'	21.99'
54	14"x23" RCP	IV	94.64'	.003	21.97'	21.68'

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
35	243+12.25	**	34" x 24"	2	*	22.74'
36	243+12.25	**	34" x 18"	2	*	22.87'
37	244+62.25	**	34" x 24"	2	*	22.99'
38	244+62.25	**	34" x 18"	2	*	23.10'
39	247+44.25	**	34" x 24"	2	*	22.08'
40	247+44.25	**	34" x 18"	2	*	22.27'

* = MATCH FLOWLINE OF PROPOSED CURBING
** = MATCH PROPOSED CURBLINE

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.		CONSTRUCTION PLAN	SHEET NO.
T200412201	DESIGNED BY: MATTHEW VINCENT			28
COUNTY	CHECKED BY:			TOTAL SHTS.
KENT				183

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
55	15" RCP	IV	135.12'	.0032	22.34'	21.91'
56	15" RCP	IV	31.25'	.01	22.77'	22.45'
57	15" RCP	IV	121.26'	.0032	21.89'	21.50'
58	15" RCP	IV	29.83'	.01	23.07'	22.77'
59	15" RCP	IV	302.10'	.0032	21.49'	20.52'
60	15" RCP	IV	29.83'	.01	22.00'	21.70'
61	18" RCP	IV	257.76'	.0032	20.51'	19.69'

DRAINAGE INLET SCHEDULE

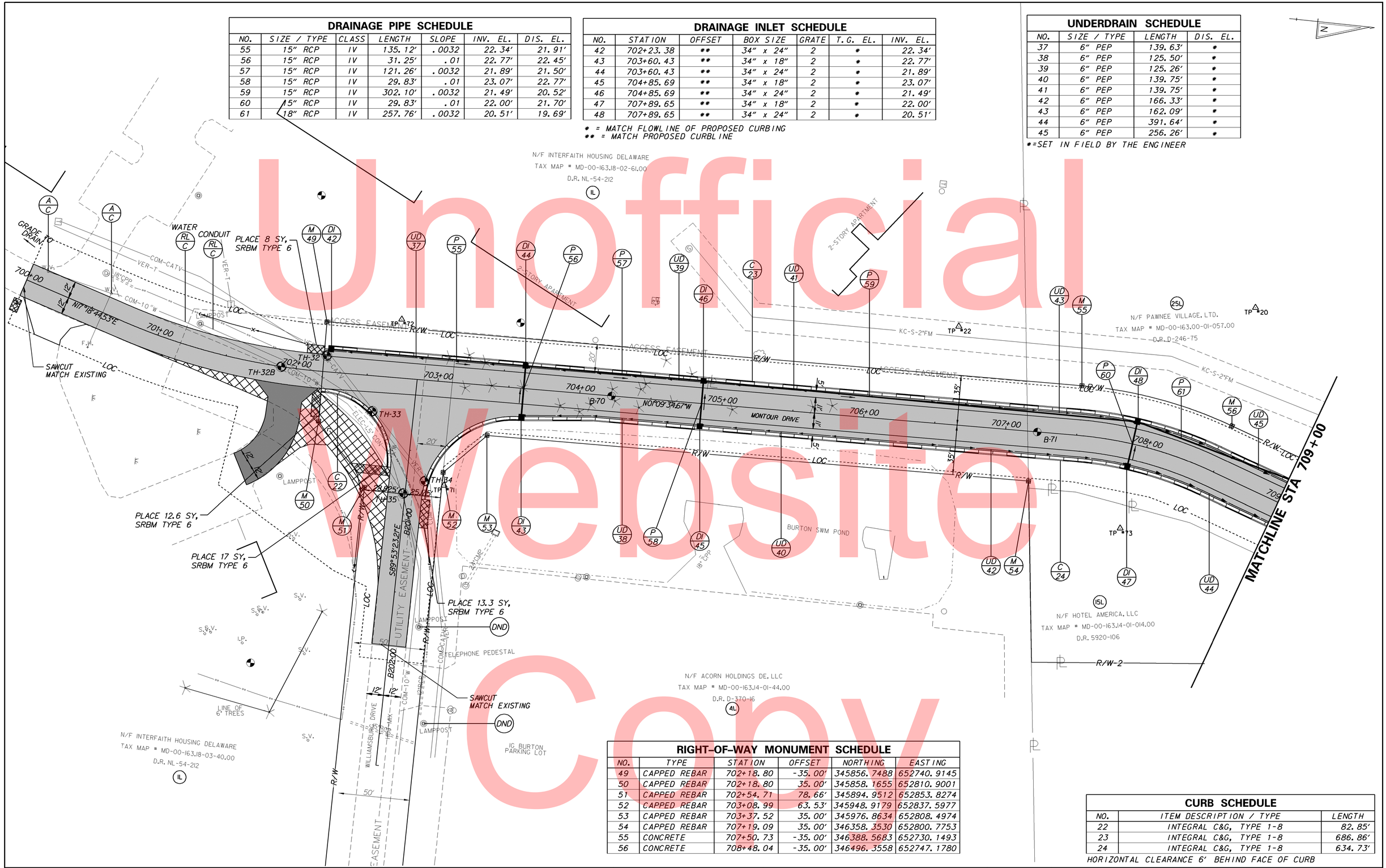
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
42	702+23.38	**	34" x 24"	2	*	22.34'
43	703+60.43	**	34" x 18"	2	*	22.77'
44	703+60.43	**	34" x 24"	2	*	21.89'
45	704+85.69	**	34" x 18"	2	*	23.07'
46	704+85.69	**	34" x 24"	2	*	21.49'
47	707+89.65	**	34" x 18"	2	*	22.00'
48	707+89.65	**	34" x 24"	2	*	20.51'

* = MATCH FLOWLINE OF PROPOSED CURBING
** = MATCH PROPOSED CURBLINE

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. EL.
37	6" PEP	139.63'	*
38	6" PEP	125.50'	*
39	6" PEP	125.26'	*
40	6" PEP	139.75'	*
41	6" PEP	139.75'	*
42	6" PEP	166.33'	*
43	6" PEP	162.09'	*
44	6" PEP	391.64'	*
45	6" PEP	256.26'	*

*=SET IN FIELD BY THE ENGINEER



RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
49	CAPPED REBAR	702+18.80	-35.00'	345856.7488	652740.9145
50	CAPPED REBAR	702+18.80	35.00'	345858.1655	652810.9001
51	CAPPED REBAR	702+54.71	78.66'	345894.9512	652853.8274
52	CAPPED REBAR	703+08.99	63.53'	345948.9179	652837.5977
53	CAPPED REBAR	703+37.52	35.00'	345976.8634	652808.4974
54	CAPPED REBAR	707+19.09	35.00'	346358.3530	652800.7753
55	CONCRETE	707+50.73	-35.00'	346388.5683	652730.1493
56	CONCRETE	708+48.04	-35.00'	346496.3558	652747.1780

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
22	INTEGRAL C&G, TYPE 1-8	82.85'
23	INTEGRAL C&G, TYPE 1-8	686.86'
24	INTEGRAL C&G, TYPE 1-8	634.73'

HORIZONTAL CLEARANCE 6' BEHIND FACE OF CURB

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS
4 15-L, 25-L: REVISED EXISTING PROPERTY L INE, PROPOSED RW, AND TCE MJV 9/30/11

SCALE
0 30 60 90
FEET

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	
T200412201	DESIGNED BY:	MATTHEW VINCENT
COUNTY	CHECKED BY:	
KENT		

CONSTRUCTION PLAN

SHEET NO.
29
TOTAL SHTS.
183

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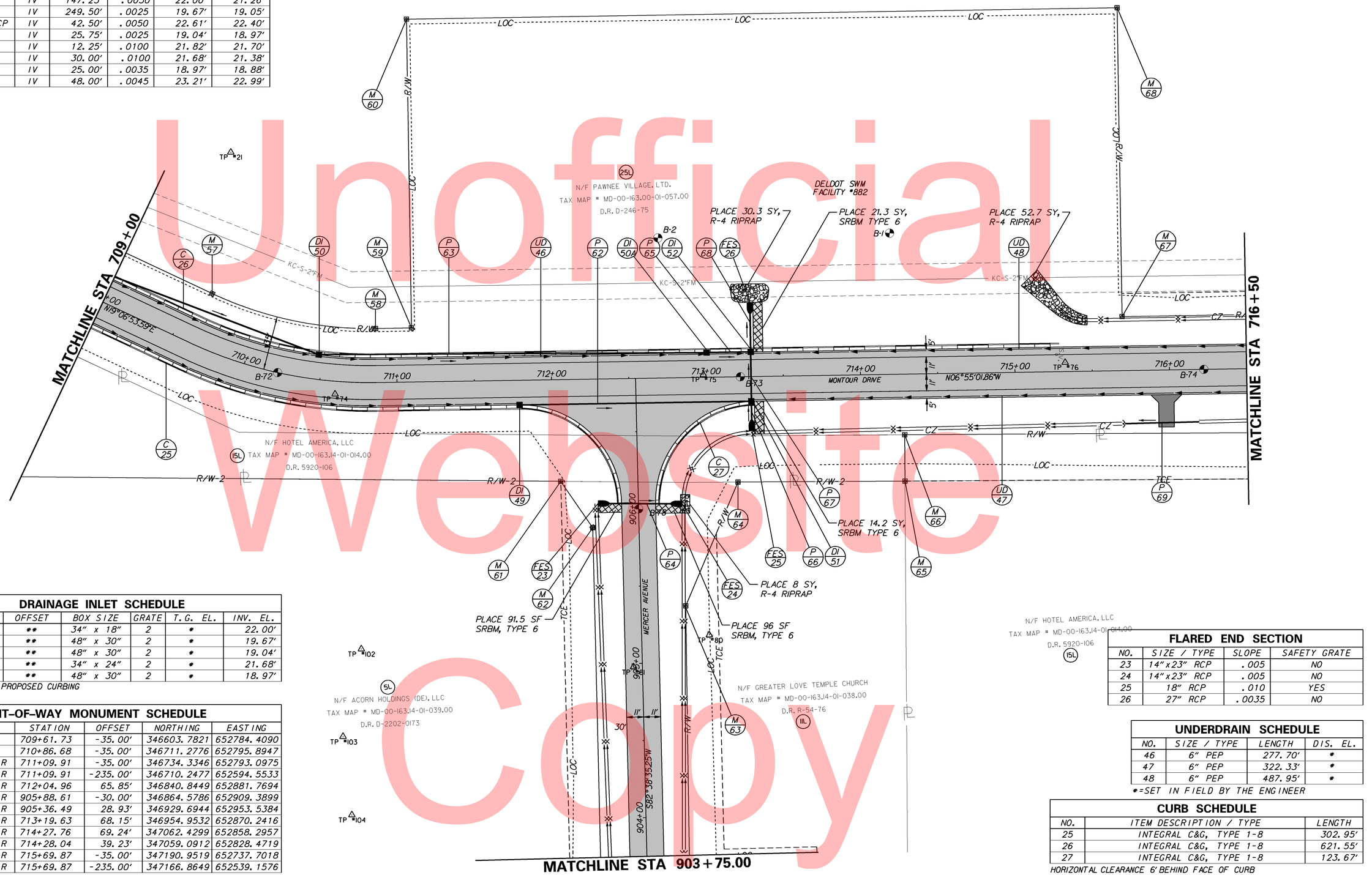
DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
62	15" RCP	IV	147.25'	.0050	22.00'	21.26'
63	24" RCP	IV	249.50'	.0025	19.67'	19.05'
64	14"x23" RCP	IV	42.50'	.0050	22.61'	22.40'
65	24" RCP	IV	25.75'	.0025	19.04'	18.97'
66	18" RCP	IV	12.25'	.0100	21.82'	21.70'
67	18" RCP	IV	30.00'	.0100	21.68'	21.38'
68	27" RCP	IV	25.00'	.0035	18.97'	18.88'
69	15" RCP	IV	48.00'	.0045	23.21'	22.99'



DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
49	711+79.08	**	34" x 18"	2	*	22.00'
50	710+47.35	**	48" x 30"	2	*	19.67'
50A	713+00.60	**	48" x 30"	2	*	19.04'
51	713+29.17	**	34" x 24"	2	*	21.68'
52	713+29.17	**	48" x 30"	2	*	18.97'

** MATCH FLOWLINE OF PROPOSED CURBING

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
57	CONCRETE	709+61.73	-35.00'	346603.7821	652784.4090
58	CONCRETE	710+86.68	-35.00'	346711.2776	652795.8947
59	CAPPED REBAR	711+09.91	-35.00'	346734.3346	652793.0975
60	CAPPED REBAR	711+09.91	-235.00'	346710.2477	652594.5533
61	CAPPED REBAR	712+04.96	65.85'	346840.8449	652881.7694
62	CAPPED REBAR	905+88.61	-30.00'	346864.5786	652909.3899
63	CAPPED REBAR	905+36.49	28.93'	346929.6944	652953.5384
64	CAPPED REBAR	713+19.63	68.15'	346954.9532	652870.2416
65	CAPPED REBAR	714+27.76	69.24'	347062.4299	652858.2957
66	CAPPED REBAR	714+28.04	39.23'	347059.0912	652828.4719
67	CAPPED REBAR	715+69.87	-35.00'	347190.9519	652737.7018
68	CAPPED REBAR	715+69.87	-235.00'	347166.8649	652539.1576

FLARED END SECTION

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
23	14"x23" RCP	.005	NO
24	14"x23" RCP	.005	NO
25	18" RCP	.010	YES
26	27" RCP	.0035	NO

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. EL.
46	6" PEP	277.70'	*
47	6" PEP	322.33'	*
48	6" PEP	487.95'	*

*=SET IN FIELD BY THE ENGINEER

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
25	INTEGRAL C&G, TYPE 1-8	302.95'
26	INTEGRAL C&G, TYPE 1-8	621.55'
27	INTEGRAL C&G, TYPE 1-8	123.67'

HORIZONTAL CLEARANCE 6' BEHIND FACE OF CURB

Unofficial Website Copy

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

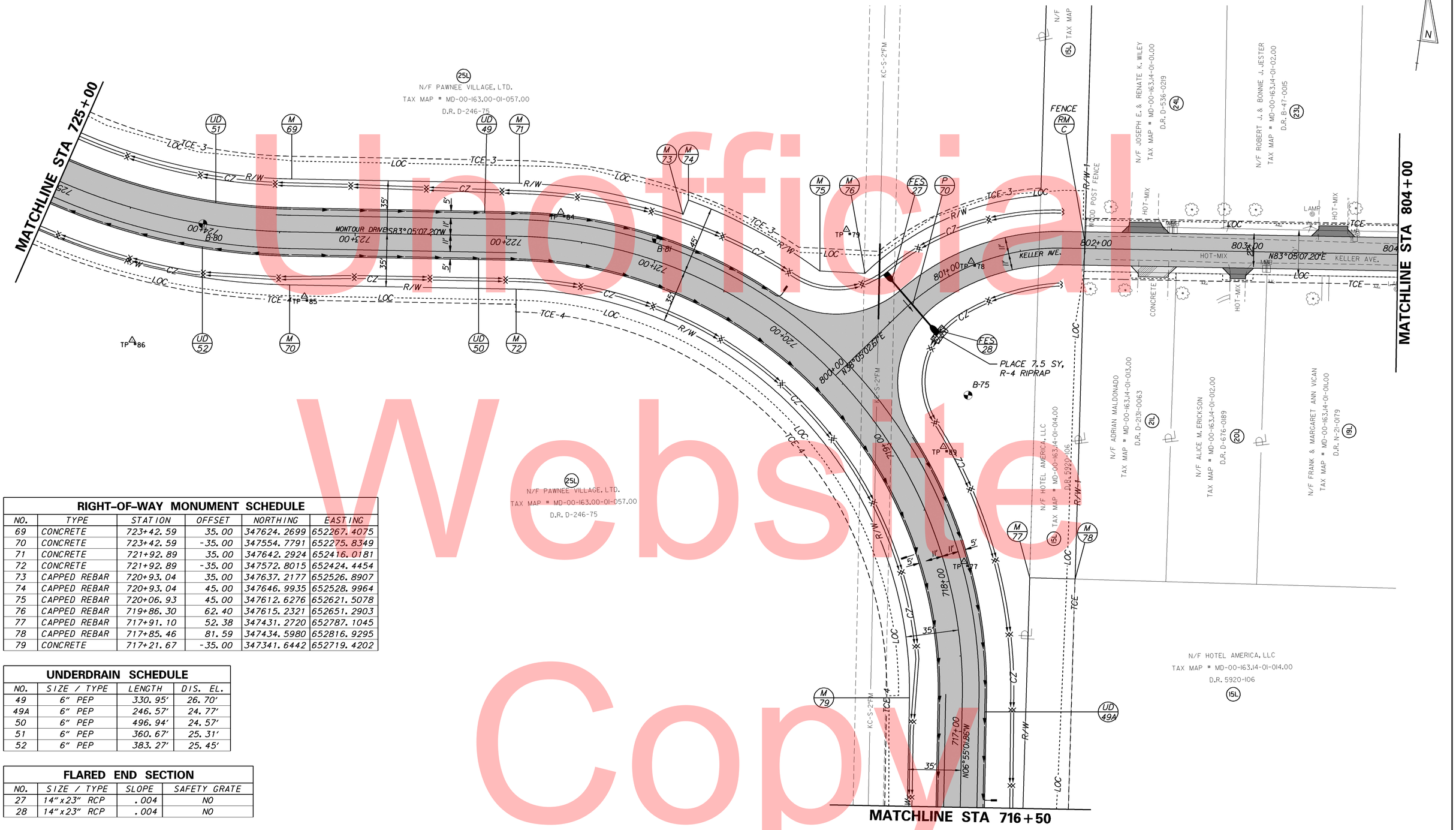
SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	
T200412201	DESIGNED BY:	MATTHEW VINCENT
COUNTY	CHECKED BY:	
KENT		

CONSTRUCTION PLAN

SHEET NO. 30

TOTAL SHTS. 183



RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
69	CONCRETE	723+42.59	35.00	347624.2699	652267.4075
70	CONCRETE	723+42.59	-35.00	347554.7791	652275.8349
71	CONCRETE	721+92.89	35.00	347642.2924	652416.0181
72	CONCRETE	721+92.89	-35.00	347572.8015	652424.4454
73	CAPPED REBAR	720+93.04	35.00	347637.2177	652526.8907
74	CAPPED REBAR	720+93.04	45.00	347646.9935	652528.9964
75	CAPPED REBAR	720+06.93	45.00	347612.6276	652621.5078
76	CAPPED REBAR	719+86.30	62.40	347615.2321	652651.2903
77	CAPPED REBAR	717+91.10	52.38	347431.2720	652787.1045
78	CAPPED REBAR	717+85.46	81.59	347434.5980	652816.9295
79	CONCRETE	717+21.67	-35.00	347341.6442	652719.4202

UNDERDRAIN SCHEDULE

NO.	SIZE / TYPE	LENGTH	DIS. EL.
49	6" PEP	330.95'	26.70'
49A	6" PEP	246.57'	24.77'
50	6" PEP	496.94'	24.57'
51	6" PEP	360.67'	25.31'
52	6" PEP	383.27'	25.45'

FLARED END SECTION

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
27	14"x23" RCP	.004	NO
28	14"x23" RCP	.004	NO

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
70	14"x23" RCP	IV	41.00'	.004	25.00'	24.84'

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	X
T200412201	DESIGNED BY:	MATTHEW VINCENT
COUNTY	CHECKED BY:	
KENT		

CONSTRUCTION PLAN

SHEET NO.
31
TOTAL SHTS.
183

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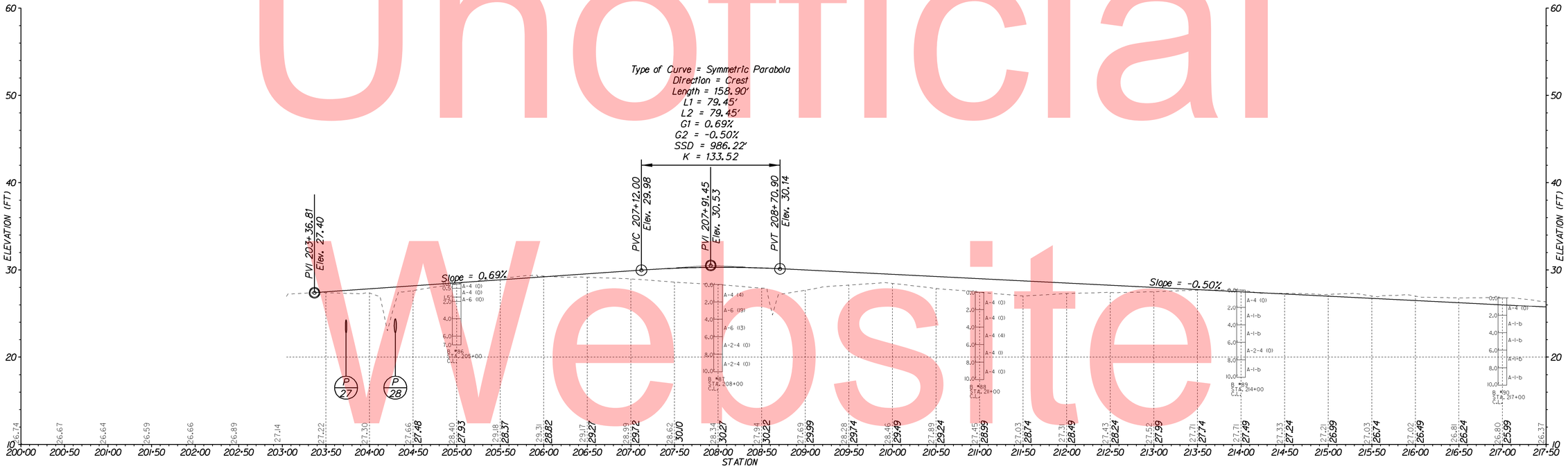

RELOCATED THOMPSONVILLE ROAD

SCALE
0 60 120 180
FEET

SCALE 18 12 6 0 FEET

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201	BRIDGE NO.	PROFILE	SHEET NO. 32
				COUNTY KENT	DESIGNED BY: MATTHEW VINCENT		TOTAL SHTS. 183
					CHECKED BY:		

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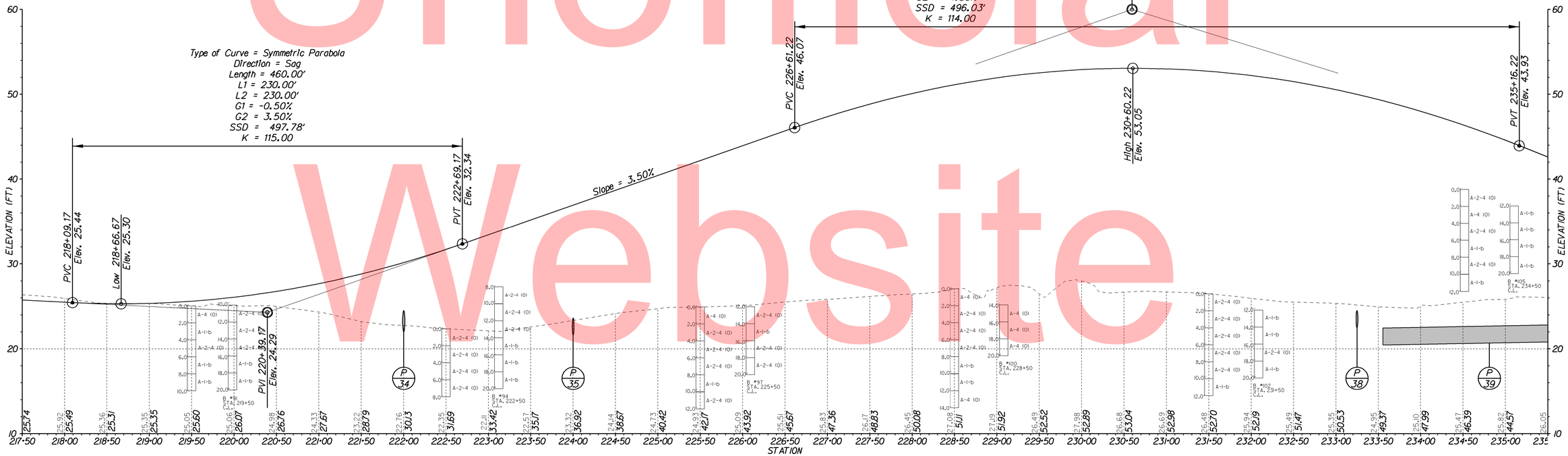

RELOCATED THOMPSONVILLE ROAD

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201	BRIDGE NO.	PROFILE
				COUNTY KENT	DESIGNED BY: MATTHEW VINCENT	SHEET NO. 33
					CHECKED BY:	TOTAL SHTS. 183

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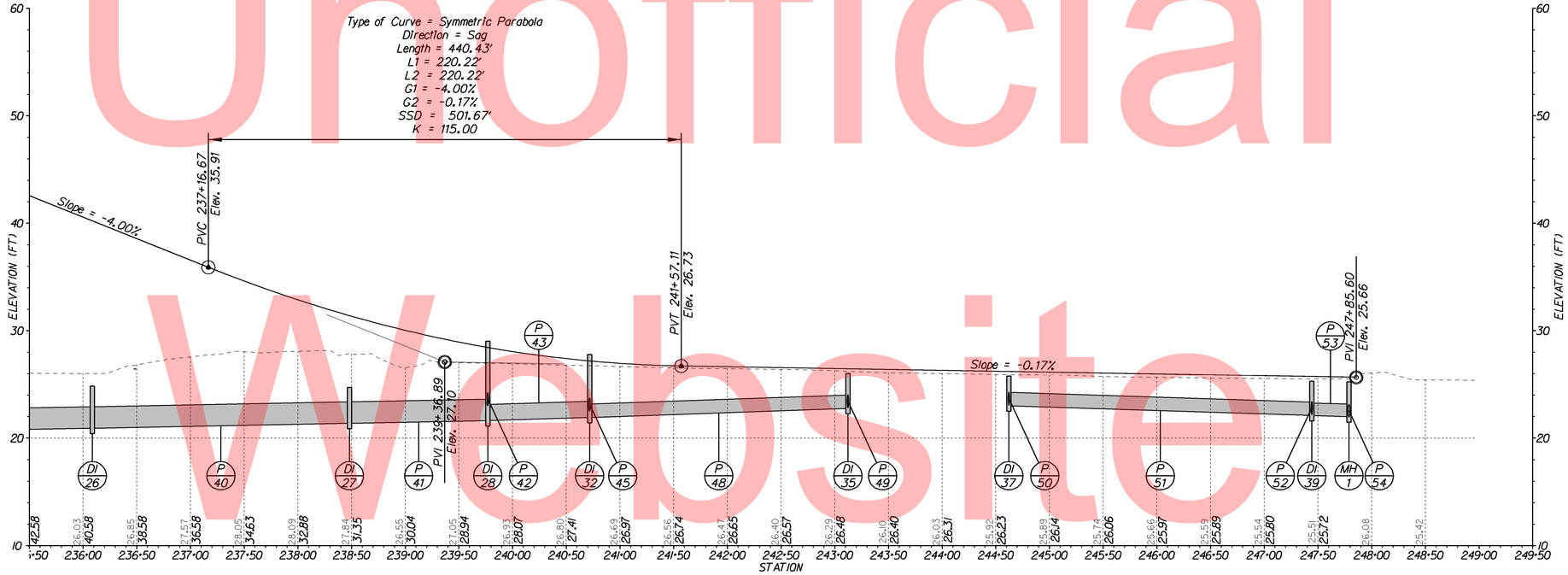

RELOCATED THOMPSONVILLE ROAD

SCALE
0 60 120 180
FEET

SCALE
0 6 12 18
FEET

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201 / COUNTY KENT	BRIDGE NO. / DESIGNED BY: MATTHEW VINCENT / CHECKED BY:	PROFILE	SHEET NO. 34 / TOTAL SHTS. 183

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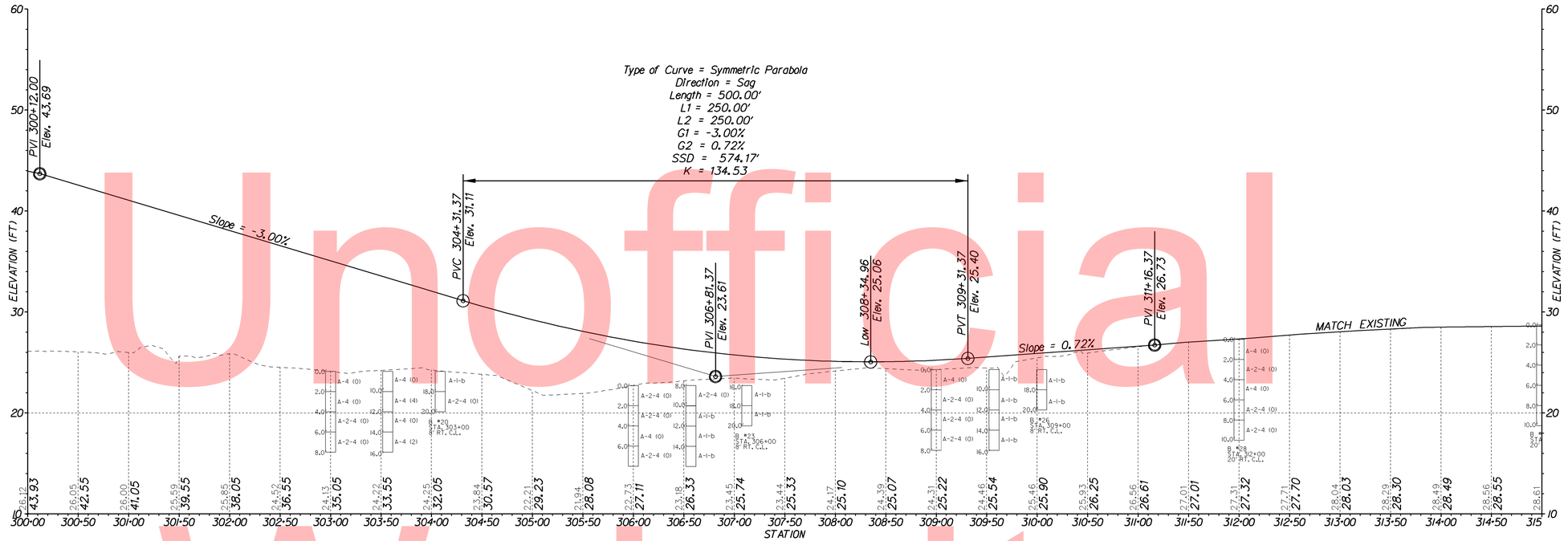

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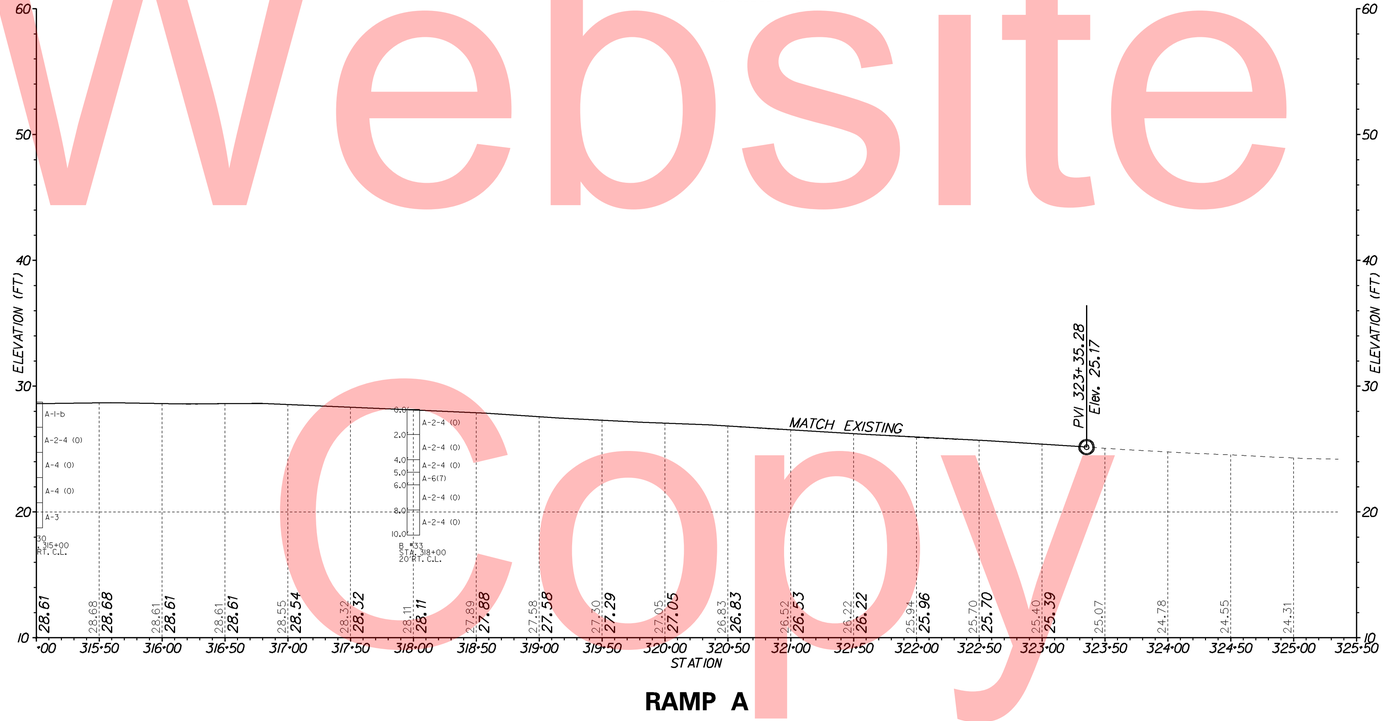

RAMP A

SCALE
0 60 120 180
FEET

SCALE
18 12 6 0
FEET

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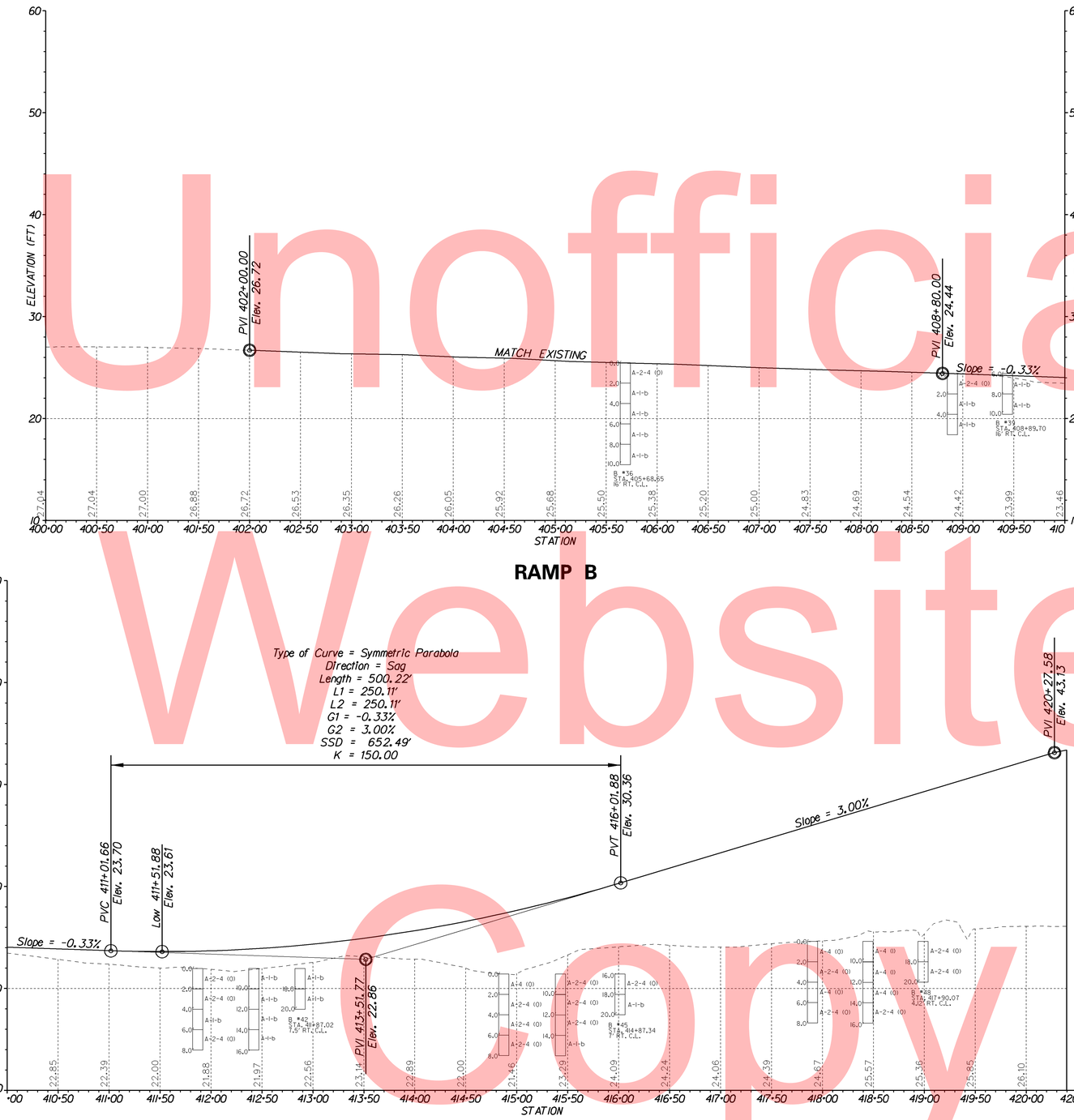
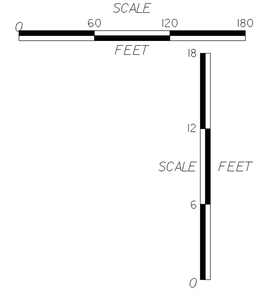
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201	BRIDGE NO.	PROFILE	SHEET NO. 35
				COUNTY KENT	DESIGNED BY: MATTHEW VINCENT		TOTAL SHTS. 183
					CHECKED BY:		

NOTE: SOIL BORING DATA IS FOR INFORMATIONAL PURPOSES ONLY.





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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201	BRIDGE NO.	SHEET NO. 36
				COUNTY KENT	DESIGNED BY: MATTHEW VINCENT	TOTAL SHTS. 183
					CHECKED BY:	PROFILE

NOTE: SOIL BORING DATA IS FOR INFORMATIONAL PURPOSES ONLY.

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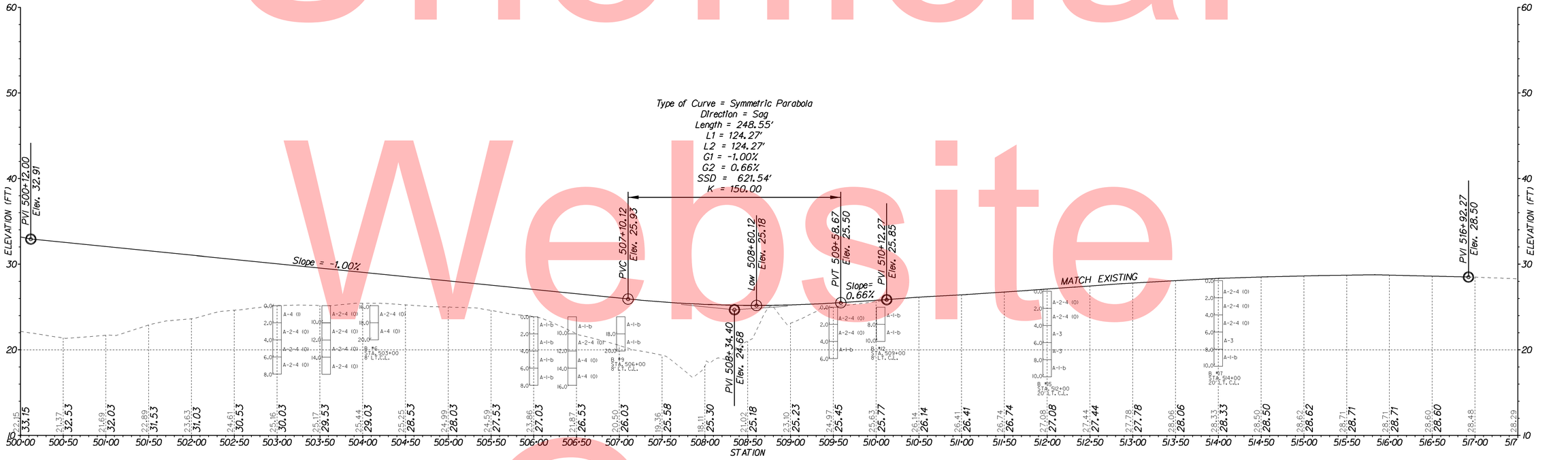

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		SR1, THOMPSONVILLE GRADE SEPARATED INTERSECTION	CONTRACT T200412201 / COUNTY KENT; BRIDGE NO.; DESIGNED BY: MATTHEW VINCENT; CHECKED BY:	PROFILE	SHEET NO. 37 / TOTAL SHTS. 183