THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY UNITS

CONSTRUCTION PLANS FOR:

WASHINGTON STREET SIDEWALKS

CONTRACT NUMBER: T200201104
FEDERAL AID PROJECT NUMBER: ESTP-N006(13)

COUNTY: NEW CASTLE M.R. #: 006 AND 378

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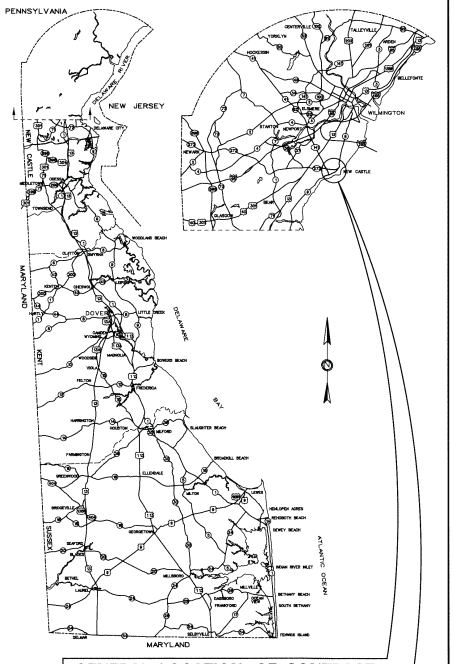


GENERAL LOCATION OF CONTRACT

BEGIN
CONTRACT T200201104
STATION 8+50.00

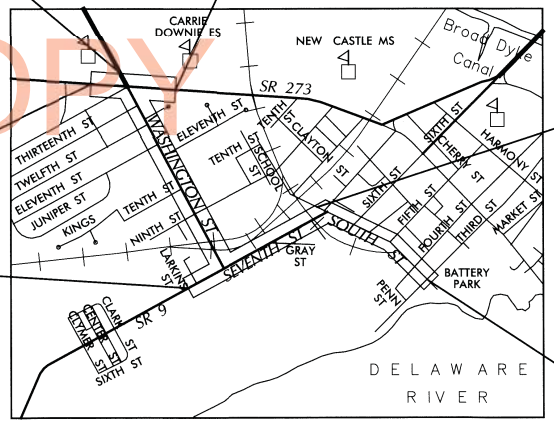
LIMIT OF CONTRACT
STATION 317+00.00

LIMIT OF CONTRACT
STATION 303+00.00

LIMIT OF CONTRACT
STATION 202+25.00

LIMIT OF CONTRACT
STATION 104+35.00

END
CONTRACT T200201104
STATION 217+50.00



LOCATION MAP
SCALE: 1" = 700'

PREPARED BY
THE CONSULTING FIRM OF

Pennoni

PENNONI ASSOCIATES INC.
121 CONTINENTAL DRIVE
SUITE 207
NEWARK, DE 19713

PHILIP ANDREW HUDSON REGISTERED No. 12429 DELAWARE PROFESSIONAL ENGINEER

SEAL

RECOMMENDED — DATE 5-31-12

RECOMMENDED

SQUAD MANAGER, CONSTRUCTION — DATE 5-30-12

GROUP ENGINEER, CONSTRUCTION — DATE 5-30-12

ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS (CONSTRUCTION) — DATE

DESIGN DESIGNATION - WASHINGTON STREET

FUNCTIONAL CLASS: MINOR ARTERIAL		D.H.V. PROJECTED: 1071	YEAR: 2032
TYPE OF CONSTRUCTION: BIKE/PEDESTRIAN IMPROVEMENTS		DESIGN SPEED: 30 MPH	
A.A.D.T. CURRENT: 8560	YEAR: 2012	TRUCKS: 6%	
A.A.D.T. PROJECTED: 10444	YEAR: 2032	DIRECTION OF DISTRIBUTION: 57%	

DESIGN DESIGNATION - WEST SEVENTH STREET

FUNCTIONAL CLASS: MAJOR COLLECTOR		D.H.V. PROJECTED: 616	YEAR: 2032
TYPE OF CONSTRUCTION: BIKE/PEDESTRIAN IMPROVEMENTS		DESIGN SPEED: 30 MPH	
A.A.D.T. CURRENT: 4857	YEAR: 2012	TRUCKS: 5%	
A.A.D.T. PROJECTED: 5926	YEAR: 2032	DIRECTION OF DISTRIBUTION: 60%	

DESIGN DESIGNATION - SOUTH STREET

FUNCTIONAL CLASS: LOCAL		D.H.V. PROJECTED: 406	YEAR: 2032
TYPE OF CONSTRUCTION: BIKE/PEDESTRIAN IMPROVEMENTS		DESIGN SPEED: 30 MPH	
A.A.D.T. CURRENT: 3203	YEAR: 2012	TRUCKS: 5%	
A.A.D.T. PROJECTED: 3909	YEAR: 2032	DIRECTION OF DISTRIBUTION: 60%	

INDEX OF SHEETS

SHEET №	TABLE OF CONTENTS
1	TITLE
2	PLAN SHEET INDEX
3	LEGEND
4	NOTES
5	EARTHWORK SUMMARY
6-12	TYPICAL SECTIONS
13-14	HORIZONTAL AND VERTICAL CONTROL
15-22	CONSTRUCTION PLANS
23-27	PROFILES
28-35	GRADES AND GEOMETRICS
36	STORMWATER MANAGEMENT PLAN
37-39	CONSTRUCTION DETAILS
40-45	BRIDGE PLANS
46-48	ENVIRONMENTAL COMPLIANCE PLANS
49-80	CONSTRUCTION PHASING M.O.T. AND EROSION CONTROL PLANS
81-84	DETOUR PLANS
85-93	UTILITY RELOCATION PLANS
94-101	SIGNING, STRIPING AND CONDUIT PLANS
102-105	SIGNALIZATION PLANS

TOTAL SHEETS: 105

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME
21-061-01	SR 141, SR 273 TO JAY DRIVE
241	SEVENTH STREET, NEW CASTLE

RECOMMENDED — STORMWATER ENGINEER — DATE 4 JUNE 2012 — SEAL: VINCENT W. DAVIS REGISTERED No. 12298 DELAWARE PROFESSIONAL ENGINEER

RECOMMENDED — SQUAD MANAGER, TRANSPORTATION SOLUTIONS (PROJECT DEVELOPMENT OR BRIDGE DESIGN) — DATE June 5, 2012 — SEAL: JOSEPH A. HOFSTETTER REGISTERED No. 14581 DELAWARE PROFESSIONAL ENGINEER

RECOMMENDED — BRIDGE DESIGN ENGINEER FOR — DATE JUNE 5, 2012 — SEAL: BARRY A. BENTON REGISTERED No. 10774 DELAWARE PROFESSIONAL ENGINEER

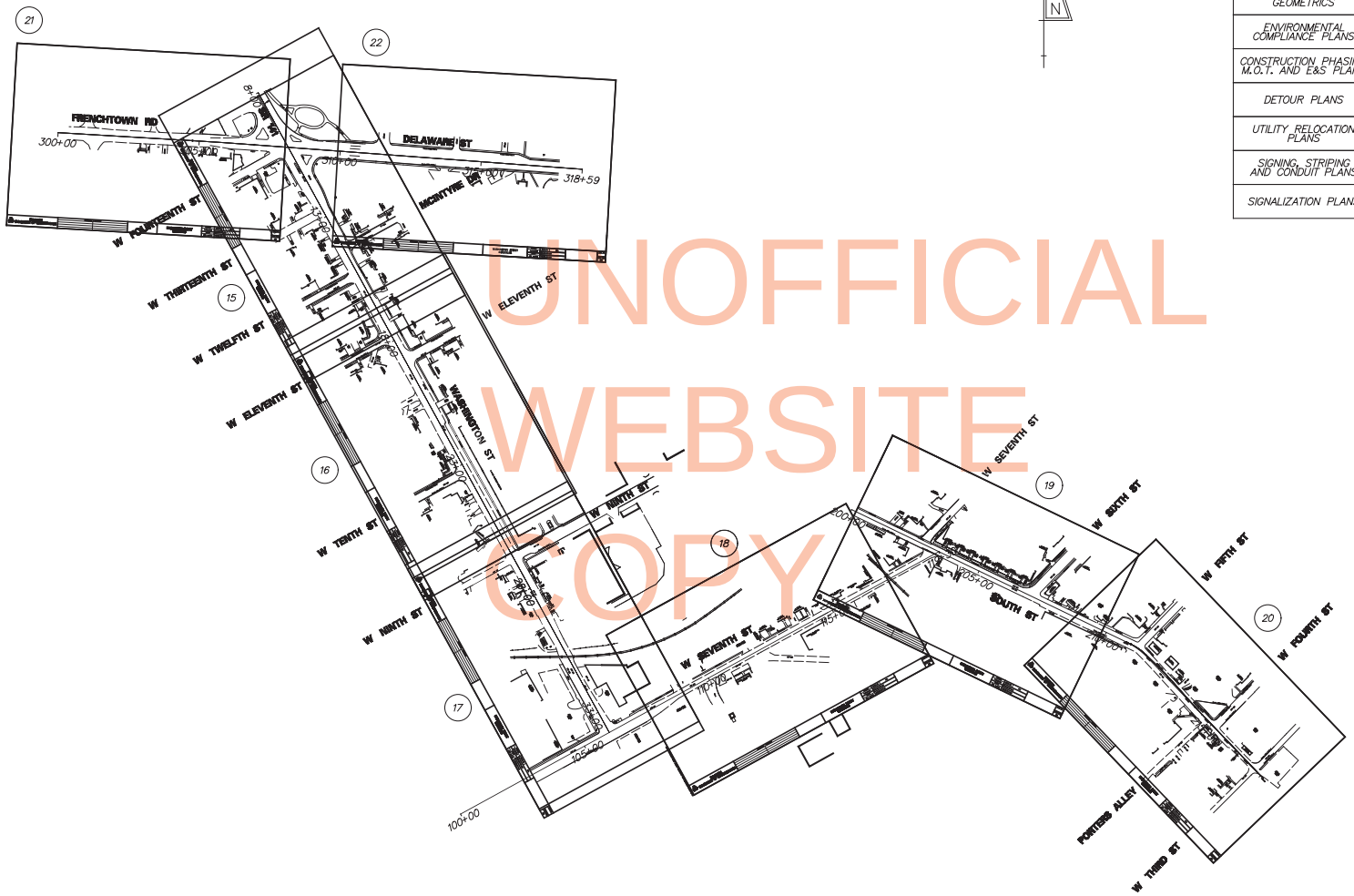
RECOMMENDED — GROUP ENGINEER, PROJECT DEVELOPMENT — DATE June 5, 2012 — SEAL: DARREN M. O'NEILL REGISTERED No. 10857 DELAWARE PROFESSIONAL ENGINEER

RECOMMENDED — ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS — DATE 6/7/12 — SEAL: CHRISTIAN A. BOYCE REGISTERED No. 9870 DELAWARE PROFESSIONAL ENGINEER

APPROVED — CHIEF ENGINEER — DATE June 8, 2012 — SEAL: NATALIE M. BARNHART REGISTERED No. 9629 DELAWARE PROFESSIONAL ENGINEER

PLAN SHEET INDEX CROSS REFERENCE

CONSTRUCTION PLANS	15	16	17	18	19	20	21	22
PROFILES	23, 27	23	23, 24	24, 25	25, 26	26	27	27
GRADES AND GEOMETRICS	28	29	30	31	32	33	34	35
ENVIRONMENTAL COMPLIANCE PLANS	-	-	47	48	-	-	-	-
CONSTRUCTION PHASING, M.O.T. AND E&S PLANS	51, 56 61	52, 57 62	53, 58, 63 66, 69, 72	67, 70 73	68, 71, 74 75, 77, 79	76, 78 80	54, 59 64	55, 60 65
DETOUR PLANS	81, 82 83	81	81, 84	81, 84	81, 84	81, 84	81, 82, 83	81, 82, 83
UTILITY RELOCATION PLANS	85	86	87	88	89	90	91	92
SIGNING, STRIPING AND CONDUIT PLANS	94	95	96	97	98	99	100	101
SIGNALIZATION PLANS	102, 103 104	-	105	-	-	-	102, 103 104	102, 103 104



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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 200 400 800 FEET	WASHINGTON STREET SIDEWALKS	CONTRACT T200201104	BRIDGE NO. N/A	PLAN SHEET INDEX	SHEET NO. 2
				COUNTY NEW CASTLE	DESIGNED BY: MAG		TOTAL SHTS. 105
					CHECKED BY: PAH		

EXISTING SYMBOLS

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

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

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

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

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

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

EXISTING UTILITES	
ATT-FO	AT&T FIBER OPTIC
CNC-W	CITY OF NEW CASTLE - WATER
COM-C-OH	COMCAST (OVERHEAD)
DP-E-OH	DELMARVA POWER ELECTRIC
DP-G	DELMARVA POWER GAS
NCC-S	NEW CASTLE COUNTY - SEWER
VER-C	VERIZON COMMUNICATIONS
VER-C-OH	VERIZON COMMUNICATIONS - OVERHEAD

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
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK @ 4"
	P.C.C. SIDEWALK @ 6"
	P.C.C. SIDEWALK @ 8"
	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
FF C	FILL WITH FLOWABLE FILL
FS	FILTRATION STRUCTURE
GR	GUARDRAIL
JB	JUNCTION BOX
MH	MANHOLE
M	MONUMENT - RIGHT-OF-WAY
P	PIPE
RL C	RELOCATE BY CONTRACTOR
RL O	RELOCATE BY OTHERS
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
	CONDUIT JUNCTION WELL
	LUMINAIRE
	PAVEMENT MARKINGS
	PAVEMENT STRIPING
	TRAFFIC SIGN

PAVEMENT SECTION(S)	
	OVERLAY PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	DRIVEWAY AND ENTRANCE PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS

UTILITY COMPANY FACILITIES	
DP-E-OH	DELMARVA POWER - ELECTRIC (OVERHEAD)
SIG-CON	DELDOT SIGNAL CONDUIT
CNC-W	CITY OF NEW CASTLE - WATER SERVICE
CNC-W-8"	CITY OF NEW CASTLE - WATER 8"
CNC-W-12"	CITY OF NEW CASTLE - WATER 12"

MISCELLANEOUS	
	RESET BRICK SIDEWALK
	SAND FILTER

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

WASHINGTON STREET SIDEWALKS

CONTRACT	BRIDGE NO.	N/A
T200201104	DESIGNED BY: MAG	
COUNTY		
NEW CASTLE	CHECKED BY: PAH	

LEGEND

SHEET NO.
3
TOTAL SHTS.
105

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. THE CONTRACTOR SHALL GIVE TWO (2) WEEKS NOTICE TO THE PROPERTY OWNER WHEN ANY FIXTURE, SHRUB OR OTHER OBJECT MUST BE REMOVED FROM THE RIGHT OF WAY OR EASEMENT AREA. IF THE OWNER HAS NOT ATTEMPTED TO SALVAGE THIS PROPERTY, THE CONTRACTOR SHALL REMOVE IT WITHOUT OBLIGATION. COMPENSATION SHALL BE INCIDENTAL TO THE CONTRACT.

3. THE ENDS OF ALL CURBS SHALL BE DEPRESSED FLUSH WITH THE PAVEMENT AT A RATIO OF TWELVE TO ONE (12:1) UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

4. THE CONTRACTOR SHALL PROVIDE AND INSTALL PVC SLEEVES (4" INSIDE MINIMUM DIAMETER, 6" INSIDE MAXIMUM DIAMETER) IN PROPOSED CONCRETE SIDEWALKS, ISLANDS, AND MEDIANS FOR FUTURE TRAFFIC SIGN POSTS AS DIRECTED BY THE ENGINEER. THE LOWER END OF THE SLEEVE SHALL SIT ON THE TOP OF THE SUBBASE MATERIAL. THE COST SHALL BE INCIDENTAL TO THE CONTRACT.

5. STAGING AREAS - PROPER EROSION AND SEDIMENT CONTROL MEASURES AS DETERMINED BY THE ENGINEER SHALL BE INSTALLED IN ALL STAGING AREAS. ALL AREAS USED BY THE CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE CONTRACT. IF THE STAGING AREA IS PAVED, IT SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF THE AREA IS UNPAVED, IT SHALL BE RE-GRADED, TOPSOILED, SEEDED AND MULCHED IN ACCORDANCE WITH DELAWARE STANDARD SPECIFICATIONS 732, 734 AND 735, FOR TOPSOIL, SEED AND MULCH RESPECTIVELY, TO THE SATISFACTION OF THE ENGINEER. THE SEED SHALL ADHERE TO THE SPECIFICATIONS OF SECTION 734 FOR PERMANENT GRASS SEEDING - DRY GROUND. ALL COSTS ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH REESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE.

6. 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 REQUIRED SHALL BE SUBMITTED TO THE DEPARTMENT. 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. 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 13 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
(X) MEDIUM	EITHER 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.
( ) MAJOR	SUPERINTENDENT AND AN INDIVIDUAL FROM CONTRACTOR'S STAFF SHALL BE CCR. ONE INDIVIDUAL FROM THE CONTRACTOR'S STAFF MUST BE A CCR. THE SUPERINTENDENT MUST BECOME A CCR WITHIN ONE YEAR AFTER THE AWARD OF CONTRACT.

7. ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR INCLUDE:

( )	NONE
(X)	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	RASTER FILES, IN .CAL FILE FORMAT, FOR ALL PLAN SHEETS.
(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.
( )	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.

8. 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.
(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.

9. THE DISTURBED AREA FOR THIS PROJECT IS 2.45 ACRES.

10. 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.

11. 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. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL, AS PART OF HIS PROJECT SCHEDULE, SUBMIT TO THE ENGINEER AN ESTIMATE OF THE MONTHLY PAYMENTS EXPECTED TO BE RECEIVED ON THE CONTRACT. THIS WILL BE REFERENCED AS THE "MONTHLY PAYMENT CHART".

   A CHART IN MICROSOFT EXCEL, MICROSOFT WORD, OR HAND WRITTEN FORMAT WILL BE ACCEPTABLE FOR THIS PURPOSE. THE CHART SHOULD INCLUDE, AS A MINIMUM, COLUMNS FOR THE MONTH, YEAR AND ESTIMATED MONTHLY PAYMENTS. THE TOTAL OF ALL ESTIMATED MONTHLY PAYMENTS SHOULD EQUAL THE AWARDED CONTRACT TOTAL BID PRICE.

   THE ENGINEER MAY REQUEST AN UPDATED "MONTHLY PAYMENT CHART" AT HIS DISCRETION, DEPENDING ON THE ACCURACY OF THE INITIAL ESTIMATES AND ACCORDING TO THE OVERALL NEEDS OF THE DEPARTMENT.

   THE "MONTHLY PAYMENT CHART" WILL NOT BE CONSIDERED A BINDING DOCUMENT BY EITHER THE CONTRACTOR OR THE DEPARTMENT AND IS CONSIDERED SOLELY INFORMATIONAL.

   ON PROJECTS REQUIRING CPM SCHEDULES, THE CONTRACTOR MAY, BUT IS NOT REQUIRED TO "COST LOAD" THE CPM SCHEDULE IN ORDER TO GENERATE THE MONTHLY SPEND PAYMENT CHART.

   COSTS TO PREPARE AND/OR UPDATE THE "MONTHLY PAYMENT CHART" ARE ADDRESSED AS FOLLOWS:
   A. ON CONTRACTS REQUIRING CPM SCHEDULES AND UPDATES, PREPARATION OF THE INITIAL CHART SHALL BE INCIDENTAL TO ITEM 763508. UPDATES SHALL BE INCIDENTAL TO ITEM 763509.

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. IN AREAS WHERE TREES OR SHRUBS WILL BE OVERHANGING THE PROPOSED SIDEWALK, PRUNING MAY BE NECESSARY TO ACHIEVE A VERTICAL CLEAR SPACE OF 10 FEET ABOVE THE PROPOSED SIDEWALK ELEVATION. THE CONTRACTOR SHALL PRUNE EXISTING TREE AND SHRUB BRANCHES, WHICH OVERHANG THE SIDEWALK, IN ACCORDANCE WITH I.S.A. STANDARDS. THE CONTRACTOR SHALL NOTIFY DELDOT'S ROADSIDE ENVIRONMENTALIST ADMINISTRATOR, EUGENE 'CHIP' ROSAN, JR. AT (302) 760-2185 AND/OR HIS DESIGNEE, AT LEAST TWO (2) DAYS PRIOR TO THE PRUNING OPERATION. ALL COSTS ASSOCIATED WITH THE ABOVE WORK TO BE PAID UNDER ITEM 201000 - CLEARING AND GRUBBING.

5. 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.

6. ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   - FENCES
   - POLE FOUNDATIONS
   - BOLLARDS

7. THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION. UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOI IS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S 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

8. 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 760502.
   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.

SECTION 300

   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.

   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

9. 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

10. 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 CONTRACTOR IS REQUIRED TO VIDEO INSPECT NEW PIPE RUNS TO CONFIRM CONDITION PRIOR TO ACCEPTANCE. PAYMENT FOR VIDEO INSPECTION OF NEW PIPES WILL BE MADE UNDER ITEM 612529 - VIDEO INSPECTION.

SECTION 700

11. 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.

12. 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.

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

14. 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.

15. 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 708060 - REPLACING CATCH BASIN GRATE(S). FINAL PAYMENT FOR REPLACED GRATES/FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.

16. THE NEW CASTLE COUNTY DEPARTMENT OF PUBLIC WORKS SHALL SUPPLY AND THE STATE'S CONTRACTOR SHALL INSTALL NEW SELF SEALING MANHOLE FRAMES AND COVERS ON ALL COUNTY SEWER MANHOLES, THAT ARE NOT BEING RELOCATED, WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE COUNTY'S STANDARD SPECIFICATIONS. THE EXISTING MANHOLE FRAMES AND COVERS THAT ARE REMOVED SHALL BECOME THE PROPERTY OF THE STATE'S CONTRACTOR. PAYMENT SHALL BE INCIDENTAL TO ITEM 710506 - ADJUST AND REPAIR EXISTING SANITARY SEWER MANHOLE.

17. 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.

18. TUBULAR MARKERS MEETING THE REQUIREMENTS OF ITEM 720611 - FLEXIBLE DELINEATOR, PERMANENT SHALL BE INSTALLED ON THE CORNERS OF ISLANDS NOT OFFSET THE FULL WIDTH OF THE SHOULDER ADJACENT TO THE ROADWAY. THE COST OF THE PROVIDING AND INSTALLING THE TUBULAR MARKERS SHALL BE INCIDENTAL TO THE ISLAND CURBING ITEM BEING CONSTRUCTED. NO ADDITIONAL PAYMENT WILL BE MADE UNDER ITEM 720611 - FLEXIBLE DELINEATOR, PERMANENT.

19. ALL HOT-MIX SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

20. SEE ENVIRONMENTAL COMPLIANCE PLANS FOR FURTHER RESTRICTIONS/GUIDANCE ASSOCIATED WITH THIS PROJECT.

21. FOR SIDEWALK CONSTRUCTION, NO BARE SOIL SHALL BE PERMITTED TO SHOW AT THE END OF THE WORK DAY. ALL BARE SOILS SHALL BE COVERED WITH GABC OR A METHOD APPROVED BY THE ENGINEER.

22. DURING PAVING OPERATIONS ON THE CONTRACT, THE CONTRACTOR SHALL USE STATIC ROLLERS TO COMPACT THE PROPOSED PAVEMENT TO AVOID DAMAGE TO THE EXISTING WATER LINES. ALSO, IN AREAS OF CONCRETE JOINT REPLACEMENT THE CONCRETE SHALL BE SAWCUT AND REMOVED IN SLABS AND JACKHAMMERING SHALL BE AVOIDED AND AS DIRECTED BY THE ENGINEER. DAMAGE TO THE EXISTING WATER LINES SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE.

MISCELLANEOUS

23. 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.

24. CROSS SECTIONS USED IN THE PREPARATION OF THIS CONTRACT ARE AVAILABLE FROM THE DEPARTMENT.

25. RIGHT-OF-WAY PLANS FOR RIGHT-OF-WAY OR EASEMENT STAKEOUT PURPOSES ARE AVAILABLE FROM THE DEPARTMENT.

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	SHT:1 WASHINGTON STA. 8+00 TO STA. 16+50	SHT: 1 SR273 STA. 306+00 TO STA. 310+50	SHT: 2 STA. 16+50 TO STA. 25+50	SHT:3 WASHINGTON STA. 25+50 TO STA. 33+81.32	SHT:3 SEVENTH STA. 104+50 TO STA. 108+25	SHT: 4 STA. 108+25 TO STA. 116+50	SHT:5 SEVENTH STA. 116+50 TO STA. 119+00	SHT:5 SOUTH. STA. 202+50 TO STA. 209+50	SHT: 6 STA. 209+50 TO STA. 217+50	SHT: 7 STA. 300+00 TO STA. 306+00	SHT: 8 STA. 310+50 TO STA. 317+00	PROJECT TOTALS
EXCAVATION - ITEM 202000 (CY) [NEED = '-' / EXCESS = '+']												
EX01 : FROM CROSS SECTIONS / MODELS (+)	1000.7	636.99	500.39	743.47	422.81	997.03	530.31	404.75	396.85	224.4	113.3	5971
EX02 : BITUMINOUS PAVEMENT REMOVED IN FILL SECTIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0
EX03 : TOPSOIL REMOVED UNDER FILL SECTIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0
EX04 : TOPSOIL PLACED IN CUT SECTIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0
EX05 : ROOT MAT REMOVED IN CUT SECTIONS (-)	0	0	0	0	0	0	0	0	0	0	0	0
EX06 : CURB AND/OR CURB AND GUTTER EXCAVATION (-)	0	0	0	0	0	0	0	0	0	0	0	0
EX07 : UNDERDRAIN EXCAVATION (-)	0	0	0	0	0	0	0	0	0	0	0	0
EX08 : ROCK EXCAVATION (-)	0	0	0	0	0	0	0	0	0	0	0	0
EX09 : REMOVAL OF PCC PAVEMENT, CURBS, SIDEWALK, ETC. (-)	0	0	0	0	0	0	0	0	0	0	0	0
EXTOTAL : TOTAL EXCAVATION	1000.7	636.99	500.39	743.47	422.81	997.03	530.31	404.75	396.85	224.4	113.3	5971
STORMWATER MANAGEMENT POND EXCAVATION - ITEM 271000 (CY) [NEED = '-' / EXCESS = '+']												
SWEX01 : FROM CROSS SECTIONS / MODELS (+)	0	0	0	0	0	0	0	0	0	0	0	0
SWEX02 : TOPSOIL REMOVED UNDER FILL SECTIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0
SWEX03 : TOPSOIL PLACED IN CUT SECTIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0
SWEX04 : ROOT MAT REMOVED (-)	0	0	0	0	0	0	0	0	0	0	0	0
SWEX05 : ROCK EXCAVATION (-)	0	0	0	0	0	0	0	0	0	0	0	0
SWEXTOTAL : TOTAL STORMWATER MANAGEMENT POND EXCAVATION	0	0	0	0	0	0	0	0	0	0	0	0
EXCAVATION AVAILABLE FOR EMBANKMENT (CY) [NEED = '-' / EXCESS = '+']												
EXTOTAL : TOTAL EXCAVATION (+) [ITEM 202000]	1000.7	636.99	500.39	743.47	422.81	997.03	530.31	404.75	396.85	224.4	113.3	5971
SWEXTOTAL : TOTAL STORMWATER MANAGEMENT POND EXCAVATION (+) [ITEM 271000]	0	0	0	0	0	0	0	0	0	0	0	0
AVEX01 : EXCAVATION AND BACKFILLING FOR STRUCTURES (+) [ITEM 207000]	0	0	0	0	0	0	0	0	0	0	0	0
AVEX02 : EXCAVATION AND BACKFILLING FOR PIPE TRENCHES (+) [ITEM 208000 + PIPES < 24" IN DIAMETER]	0	0	0	0	0	0	0	0	0	0	0	0
AVEX03 : CHANNEL EXCAVATION (+) [ITEM 203000]	0	0	0	0	0	0	0	0	0	0	0	0
AVEX04 : EXCAVATION FROM LATERAL OR LONGITUDINAL DITCHING (+) [ITEM 714000]	0	0	0	0	0	0	0	0	0	0	0	0
AVEX05 : EXCAVATION FROM CURBS AND/OR CURB AND GUTTER (+)	0	0	0	0	0	0	0	0	0	0	0	0
AVEX06 : EXCAVATION FROM UNDERDRAINS (+) [ITEM 715000X]	0	0	0	0	0	0	0	0	0	0	0	0
AVEX07 : MISCELLANEOUS EXCAVATIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0
AVEX08 : TOPSOIL REMOVED IN CUT AND/OR FILL SECTIONS (-)	0	0	0	0	0	0	0	0	0	0	0	0
AVEX09 : TOPSOIL REMOVED IN CUT AND/OR FILL SECTIONS FOR STORMWATER MANAGEMENT PONDS (-)	0	0	0	0	0	0	0	0	0	0	0	0
AVEX10: UNSUITABLE MATERIALS (-)	0	0	0	0	0	0	0	0	0	0	0	0
AVEXTOTAL : TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT	1000.7	636.99	500.39	743.47	422.81	997.03	530.31	404.75	396.85	224.4	113.3	5971
EMBANKMENT AND BORROW, TYPE 'F' REQUIRED (CY) [NEED = '-' / EXCESS = '+']												
EMRF01 : FROM CROSS SECTIONS / MODEL (+) [EMBANKMENT REQUIRED BELOW SUBGRADE OR CAPPING]	22.5	2.07	133.02	42.39	0	0.59	0	16.02	22.56	0.11	1.24	240.5
EMRF02 : TOPSOIL REMOVED UNDER FILL (+)	0	0	0	0	0	0	0	0	0	0	0	0
EMRF03 : ROOT MAT REMOVED UNDER FILL (+)	0	0	0	0	0	0	0	0	0	0	0	0
EMRF04 : UNSUITABLE MATERIAL REMOVED UNDER FILL (+)	0	0	0	0	0	0	0	0	0	0	0	0
EMRF05 : PCC REMOVED UNDER FILL (+)	0	0	0	0	0	0	0	0	0	0	0	0
EMRF06 : BITUMINOUS PAVEMENT REMOVED UNDER FILL (+)	0	0	0	0	0	0	0	0	0	0	0	0
EMRF07 : TOPSOIL TO BE PLACED IN FILL (+)	0	0	0	0	0	0	0	0	0	0	0	0
EMRF08 : SUBTOTAL OF EMBANKMENT AND BORROW, TYPE 'F' REQUIRED	22.5	2.07	133.02	42.39	0	0.59	0	16.02	22.56	0.11	1.24	240.5
EMRF09 : COMPACTION FACTOR APPLIED TO THE SUBTOTAL (%)	1.2	1.2	1.2	1.2	2.2	1.2	1.2	1.2	1.2	1.2	1.2	
EMRFTOTAL : TOTAL EMBANKMENT AND BORROW, TYPE 'F' REQUIRED	27	2.484	159.624	50.868	0	0.708	0	19.224	27.072	0.132	1.488	288.6
TOPSOIL SUMMARY (CY) [NEED = '-' / EXCESS = '+']												
TOP01 : TOPSOIL SALVAGED FROM CUT SECTIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0
TOP02 : TOPSOIL SALVAGED FROM FILL SECTIONS (+)	0	0	0	0	0	0	0	0	0	0	0	0
TOP03 : TOPSOIL SALVAGED FROM STORMWATER MANAGEMENT PONDS (+)	0	0	0	0	0	0	0	0	0	0	0	0
TOP04 : TOPSOIL REQUIRED (-)	246.55	0	355.35	267.26	0	119.52	0	88.31	72.46	30.09	11.48	1191.02
TOPTOTAL : TOTAL TOPSOIL	-246.55	0	-355.35	-267.26	0	-119.52	0	-88.31	-72.46	-30.09	-11.48	-1191.02
MATERIAL BALANCE (CY) [NEED = '-' / EXCESS = '+']												
BORROW, TYPE 'A'	0	0	0	0	0	0	0	0	0	0	0	0
BORROW, TYPE 'B'	0	0	0	0	0	0	0	0	0	0	0	0
BORROW, TYPE 'C'	0	0	0	0	0	0	0	0	0	0	0	0
BORROW, TYPE 'F'	0	0	0	0	0	0	0	0	0	0	0	0
TOPSOIL	0	0	0	0	0	0	0	0	0	0	0	0
UNSUITABLE MATERIAL	0	0	0	0	0	0	0	0	0	0	0	0

NOTES:

1) THE VALUES LISTED IN THE EARTHWORK SUMMARY ARE APPROXIMATE AND ARE NOT TO BE USED AS A BASIS OF PAYMENT. THE EARTHWORK SUMMARY IS CONSIDERED FOR INFORMATIONAL PURPOSES ONLY.

2) OTHER SOURCES OF EXCAVATION MAY INCLUDE PIPE TRENCH EXCAVATION, STRUCTURE EXCAVATION, UNDERCUT EXCAVATION, STORMWATER MANAGEMENT POND EXCAVATION, ENVIRONMENTAL SITE EXCAVATION, MAINTENANCE OF TRAFFIC EXCAVATION, ETC.

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

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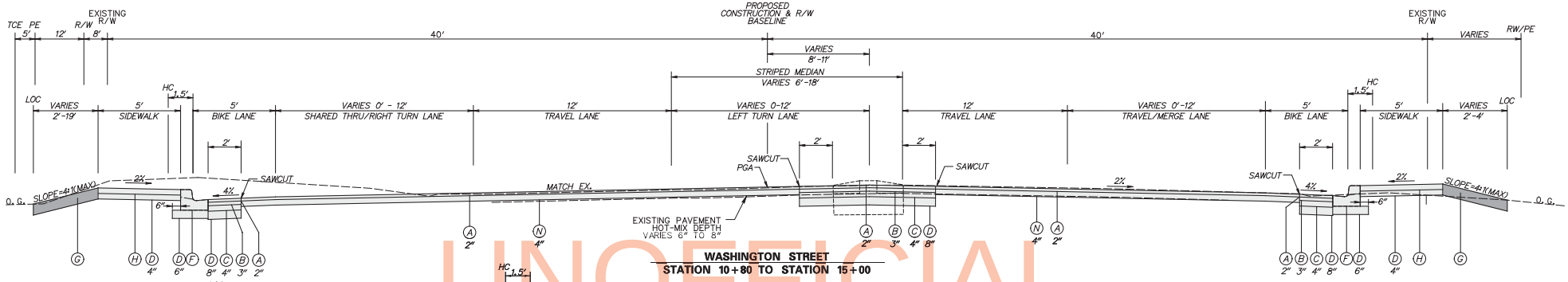
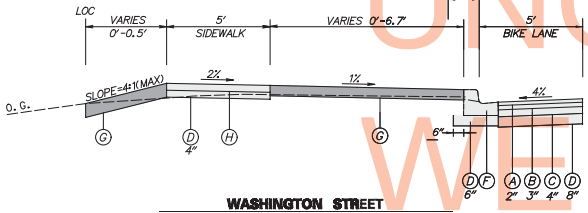
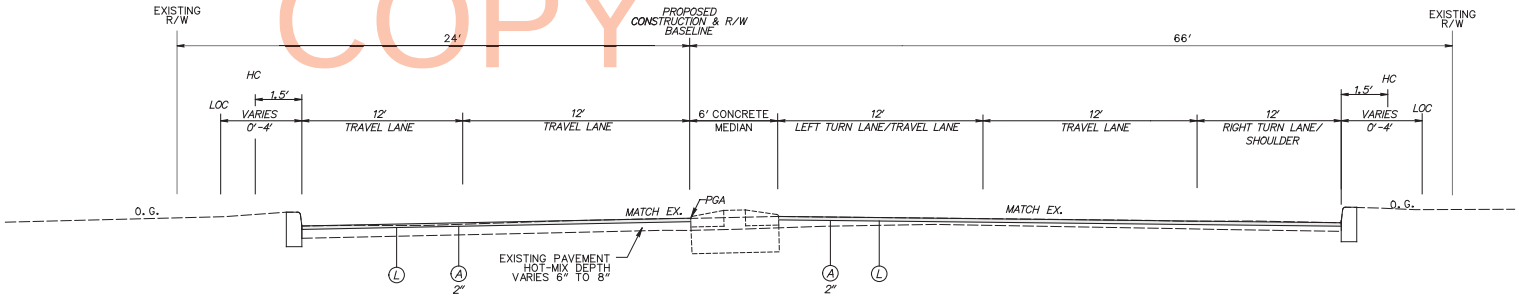


WASHINGTON STREET
STATION 10+80 TO STATION 15+00



WASHINGTON STREET
STATION 14+42 LT TO STATION 15+00 LT



WASHINGTON STREET
STATION 8+50 TO STATION 9+75

NOTES:
1. THE MAXIMUM LIFTS FOR INDIVIDUAL PAVEMENT MATERIALS ARE AS FOLLOWS:
   - WMA, SUPERPAVE, TYPE C HOT-MIX - 2"
   - WMA, SUPERPAVE, TYPE B HOT-MIX - 3"
   - WMA, SUPERPAVE, BCBC - 6"
   - GABC - 8"

LEGEND

- (A) ITEM 401801 - WMA, SUPERPAVE, TYPE C HOT-MIX, 160 GYRATION PG 64-22 (CARBONATE STONE)
- (B) ITEM 401810 - WMA, SUPERPAVE, TYPE B HOT-MIX, 160 GYRATION PG 64-22
- (C) ITEM 401819 - WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE 160 GYRATIONS PG 64-22
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (E) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6" *TO BE INSTALLED WHERE IDENTIFIED ON CONSTRUCTION PLANS
- (F) ITEM 701022 - INTEGRAL P.C.C. CURB AND GUTTER, TYPE 3-8
- (G) ITEM 732002 - TOPSOIL, 6" DEPTH AND ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (H) ITEM 705001 - P.C.C. SIDEWALK, 4" DEPTH
- (I) ITEM 705505 - RESET STONE/BRICK SIDEWALK (SEE NOTE)
- (J) ITEM 209006 - BORROW, TYPE F
- (K) ITEM 701501 - RESET EXISTING STONE CURB
- (L) ITEM 760507 - PROFILE MILLING, HOT-MIX
- (M) ITEM 602002 - PORTLAND CEMENT CONCRETE MASONRY, CLASS B
- (N) ITEM 401636 - COLD RECYCLED BITUMINOUS PAVEMENT
- (O) ITEM 701019 - INTEGRAL PCC CURB & GUTTER TYPE 3-4
- (P) ITEM 735535 - SOIL RETENTION MULCH BLANKET, TYPE 3
- (Q) ITEM 401825 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG-64-22, WEDGE
- (R) ITEM 701010 - P.C.C. CURB, TYPE 1-8

NOTE: ALL ASSOCIATED DRY SETTING BEDS, PCC MASONRY CLASS B FOUNDATIONS AND GEOTEXTILE SHALL BE INCIDENTAL TO ITEM 705504.

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	WASHINGTON STREET SIDEWALKS	CONTRACT T200201104	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 6
				COUNTY NEW CASTLE	DESIGNED BY: MAG		TOTAL SHTS. 105
					CHECKED BY: PAH		

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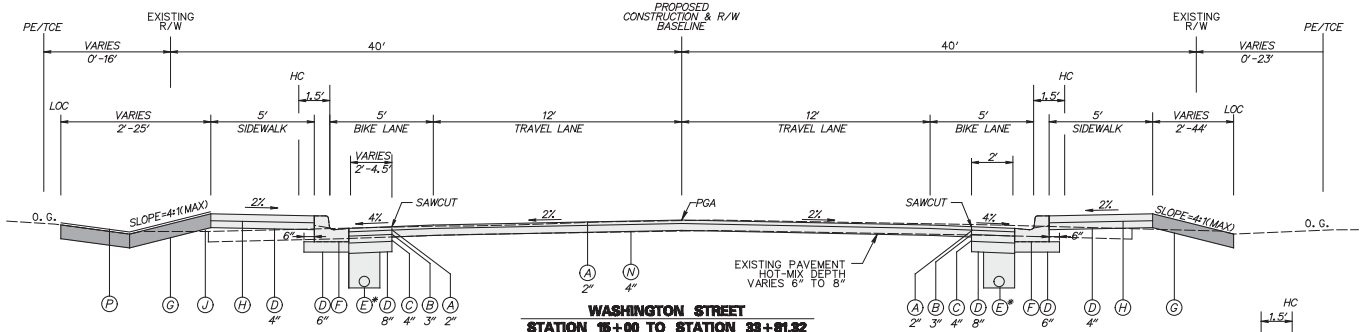
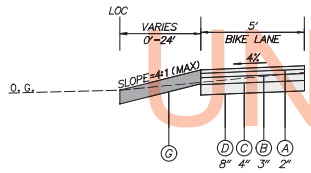
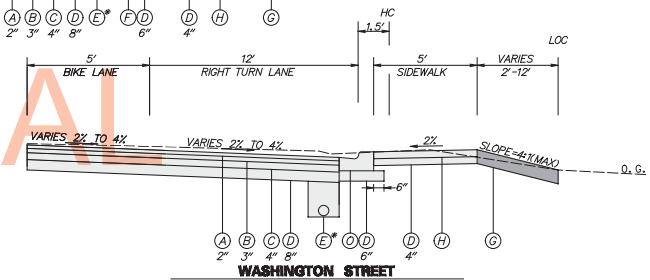


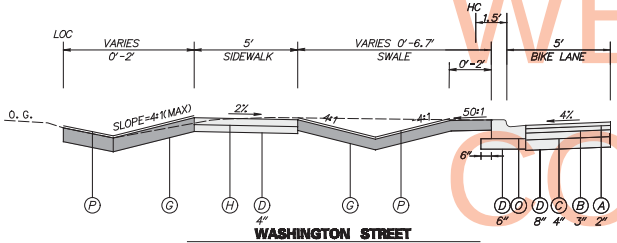
WASHINGTON STREET
STATION 15+00 TO STATION 33+81.32



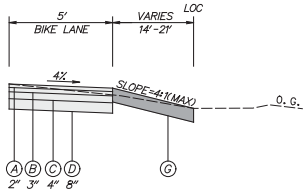
WASHINGTON STREET
STATION 30+30 LT TO STATION 31+25 LT



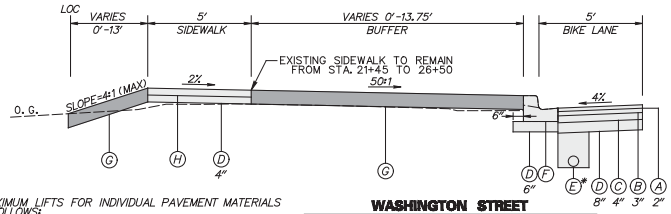
WASHINGTON STREET
STATION 31+60 RT TO STATION 33+81 RT



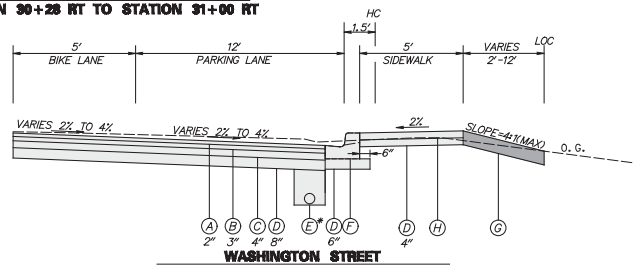
WASHINGTON STREET
STATION 27+00 LT TO STATION 30+30 LT



WASHINGTON STREET
STATION 30+28 RT TO STATION 31+00 RT



WASHINGTON STREET
STATION 15+00 LT TO STATION 27+00 LT



WASHINGTON STREET
STATION 16+25 RT TO STATION 17+35 RT

NOTES:
1. THE MAXIMUM LIFTS FOR INDIVIDUAL PAVEMENT MATERIALS ARE AS FOLLOWS:
   - WMA, SUPERPAVE, TYPE C HOT-MIX - 2"
   - WMA, SUPERPAVE, TYPE B HOT-MIX - 3"
   - WMA, SUPERPAVE, BCBC - 6"
   - GABC - 8"

LEGEND

(A) ITEM 401801 - WMA, SUPERPAVE, TYPE C HOT-MIX, 160 GYRATION PG 64-22 (CARBONATE STONE)

(B) ITEM 401810 - WMA, SUPERPAVE, TYPE B HOT-MIX, 160 GYRATION PG 64-22

(C) ITEM 401819 - WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE 160 GYRATIONS PG 64-22

(D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B

(E) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
*TO BE INSTALLED WHERE IDENTIFIED ON CONSTRUCTION PLANS

(F) ITEM 701022 - INTEGRAL P.C.C. CURB AND GUTTER, TYPE 3-8

(G) ITEM 732002 - TOPSOIL, 6" DEPTH AND
ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND

(H) ITEM 705001 - P.C.C. SIDEWALK, 4" DEPTH

(I) ITEM 705505 - RESET STONE/BRICK SIDEWALK (SEE NOTE)

(J) ITEM 209006 - BORROW, TYPE F

(K) ITEM 701501 - RESET EXISTING STONE CURB

(L) ITEM 760507 - PROFILE MILLING, HOT-MIX

(M) ITEM 602002 - PORTLAND CEMENT CONCRETE MASONRY, CLASS B

(N) ITEM 401636 - COLD RECYCLED BITUMINOUS PAVEMENT

(O) ITEM 701019 - INTEGRAL PCC CURB & GUTTER TYPE 3-4

(P) ITEM 735535 - SOIL RETENTION MULCH BLANKET, TYPE 5

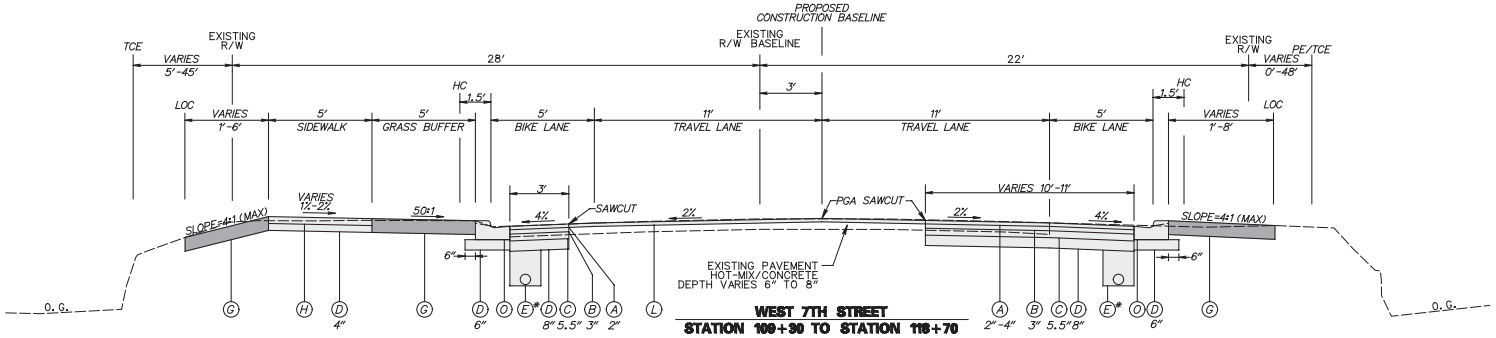
(Q) ITEM 401825 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG-64-22, WEDGE

(R) ITEM 701010 - P.C.C. CURB, TYPE 1-8

NOTE: ALL ASSOCIATED DRY SETTING BEDS, PCC MASONRY CLASS B FOUNDATIONS AND GEOTEXTILE SHALL BE INCIDENTAL TO ITEM 705504.

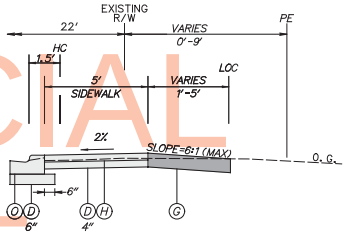
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	WASHINGTON STREET SIDEWALKS	CONTRACT T200201104	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 7
				COUNTY NEW CASTLE	DESIGNED BY: MAG		TOTAL SHTS. 105
					CHECKED BY: PAH		

UNOFFICIAL WEBSITE COPY

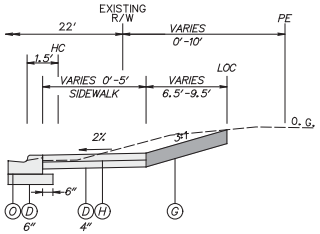


WEST 7TH STREET
STATION 109+30 TO STATION 118+70

NOTE:
FOR DETAILS OVER CULVERT AT STATION 109+98.00
SEE BRIDGE DETAILS.

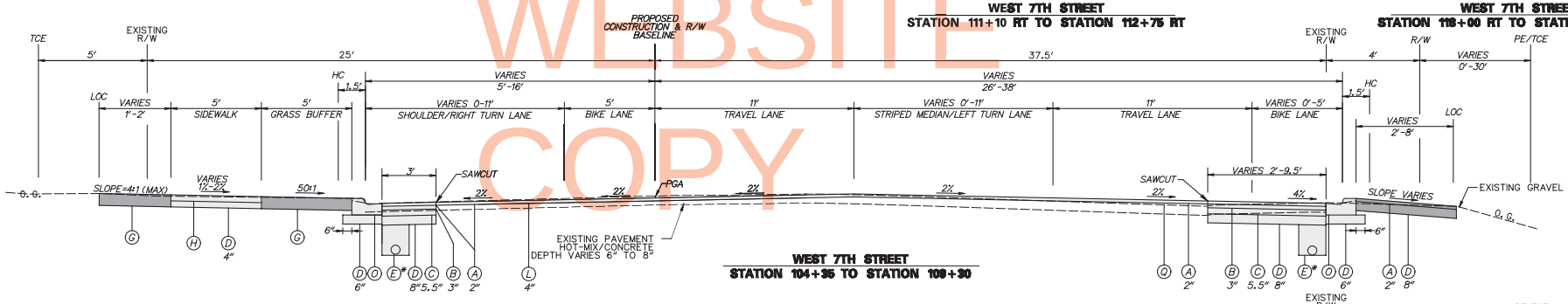


WEST 7TH STREET
STATION 111+10 RT TO STATION 112+75 RT

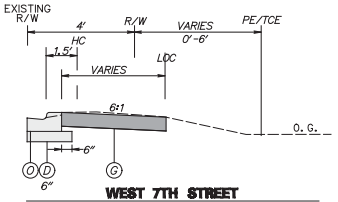


WEST 7TH STREET
STATION 118+00 RT TO STATION 118+70 RT

UNOFFICIAL WEBSITE COPY



WEST 7TH STREET
STATION 104+35 TO STATION 109+30



WEST 7TH STREET
STATION 104+35 RT TO STATION 108+00 RT

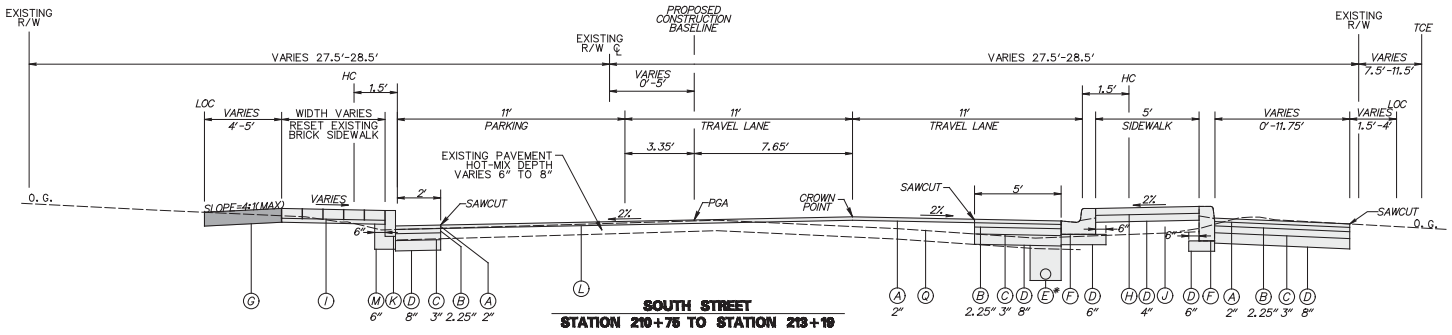
NOTES:
1. THE MAXIMUM LIFTS FOR INDIVIDUAL PAVEMENT MATERIALS ARE AS FOLLOWS:
   - WMA, SUPERPAVE, TYPE C HOT-MIX - 2"
   - WMA, SUPERPAVE, TYPE B HOT-MIX - 3"
   - WMA, SUPERPAVE, BCBC - 6"
   - GABC - 8"

LEGEND

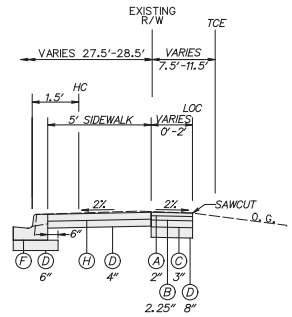
- (A) ITEM 401801 - WMA, SUPERPAVE, TYPE C HOT-MIX, 160 GYRATION PG 64-22 (CARBONATE STONE)
- (B) ITEM 401810 - WMA, SUPERPAVE, TYPE B HOT-MIX, 160 GYRATION PG 64-22
- (C) ITEM 401819 - WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE 160 GYRATIONS PG 64-22
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (E) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6" *TO BE INSTALLED WHERE IDENTIFIED ON CONSTRUCTION PLANS
- (F) ITEM 701022 - INTEGRAL P.C.C. CURB AND GUTTER, TYPE 3-8
- (G) ITEM 732002 - TOPSOIL, 6" DEPTH AND ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (H) ITEM 705001 - P.C.C. SIDEWALK, 4" DEPTH
- (I) ITEM 705505 - RESET STONE/BRICK SIDEWALK (SEE NOTE)
- (J) ITEM 209006 - BORROW, TYPE F
- (K) ITEM 701501 - RESET EXISTING STONE CURB
- (L) ITEM 760507 - PROFILE MILLING, HOT-MIX
- (M) ITEM 602002 - PORTLAND CEMENT CONCRETE MASONRY, CLASS B
- (N) ITEM 401636 - COLD RECYCLED BITUMINOUS PAVEMENT
- (O) ITEM 701019 - INTEGRAL PCC CURB & GUTTER TYPE 3-4
- (P) ITEM 735535 - SOIL RETENTION MULCH BLANKET, TYPE 5
- (Q) ITEM 401825 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG-64-22, WEDGE
- (R) ITEM 701010 - P.C.C. CURB, TYPE 1-8

NOTE: ALL ASSOCIATED DRY SETTING BEDS, PCC MASONRY CLASS B FOUNDATIONS AND GEOTEXTILE SHALL BE INCIDENTAL TO ITEM 705504.

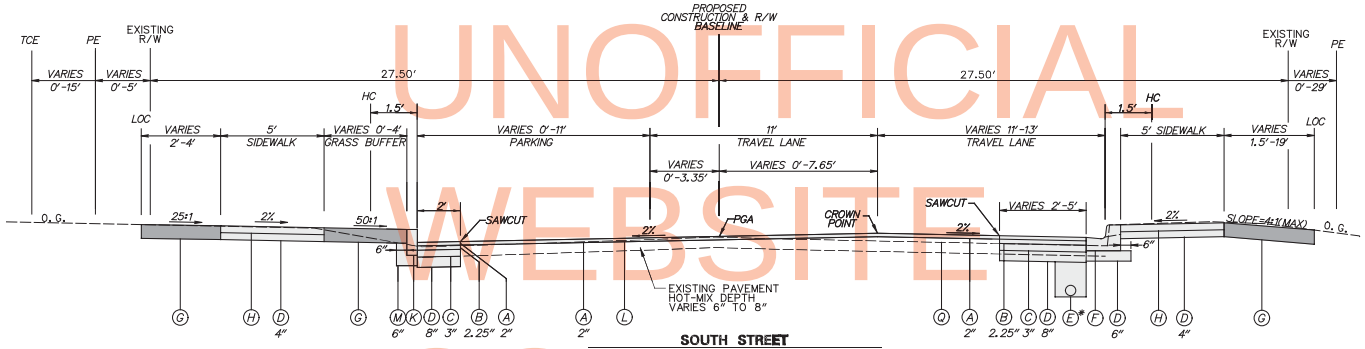
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	WASHINGTON STREET SIDEWALKS	CONTRACT T200201104	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 8
				COUNTY NEW CASTLE	DESIGNED BY: MAG		TOTAL SHTS. 105
					CHECKED BY: PAH		



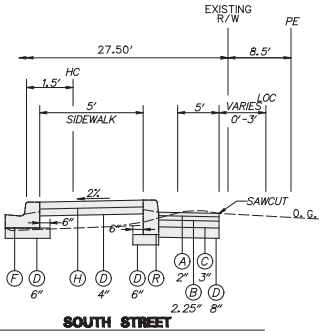
SOUTH STREET
STATION 210+75 TO STATION 213+19



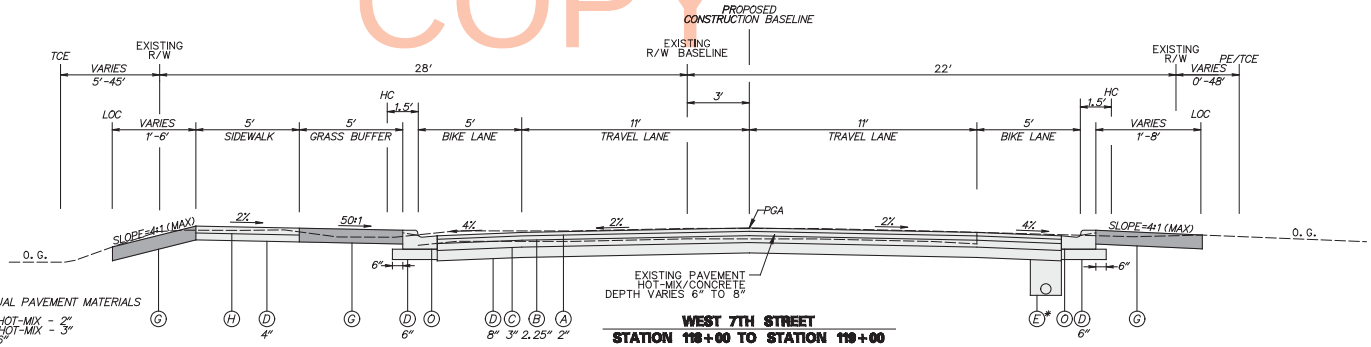
SOUTH STREET
STATION 210+75 RT TO STATION 211+50 RT
STATION 213+00 RT TO STATION 213+19 RT



SOUTH STREET
STATION 202+25 TO STATION 210+75



SOUTH STREET
STATION 204+40 RT TO STATION 206+67 RT



WEST 7TH STREET
STATION 118+00 TO STATION 119+00

NOTES:
1. THE MAXIMUM LIFTS FOR INDIVIDUAL PAVEMENT MATERIALS ARE AS FOLLOWS:
   - WMA, SUPERPAVE, TYPE C HOT-MIX - 2"
   - WMA, SUPERPAVE, TYPE B HOT-MIX - 3"
   - WMA, SUPERPAVE, BCBC - 6"
   - GABC - 8"

LEGEND

(A) ITEM 401801 - WMA, SUPERPAVE, TYPE C HOT-MIX, 160 GYRATION PG 64-22 (CARBONATE STONE)

(B) ITEM 401810 - WMA, SUPERPAVE, TYPE B HOT-MIX, 160 GYRATION PG 64-22

(C) ITEM 401819 - WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE 160 GYRATIONS PG 64-22

(D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B

(E) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
*TO BE INSTALLED WHERE IDENTIFIED ON CONSTRUCTION PLANS

(F) ITEM 701022 - INTEGRAL P.C.C. CURB AND GUTTER, TYPE 3-8

(G) ITEM 732002 - TOPSOIL, 6" DEPTH AND
ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND

(H) ITEM 705001 - P.C.C. SIDEWALK, 4" DEPTH

(I) ITEM 705505 - RESET STONE/BRICK SIDEWALK (SEE NOTE)

(J) ITEM 209006 - BORROW, TYPE F

(K) ITEM 701501 - RESET EXISTING STONE CURB

(L) ITEM 760507 - PROFILE MILLING, HOT-MIX

(M) ITEM 602002 - PORTLAND CEMENT CONCRETE MASONRY, CLASS B

(N) ITEM 401636 - COLD RECYCLED BITUMINOUS PAVEMENT

(O) ITEM 701019 - INTEGRAL PCC CURB & GUTTER TYPE 3-4

(P) ITEM 735535 - SOIL RETENTION MULCH BLANKET, TYPE 5

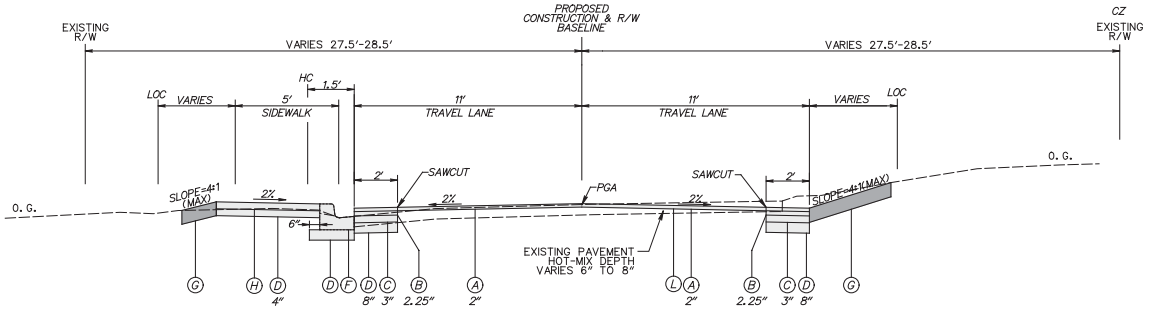
(Q) ITEM 401825 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG-64-22, WEDGE

(R) ITEM 701010 - P.C.C. CURB, TYPE 1-8

NOTE: ALL ASSOCIATED DRY SETTING BEDS, PCC MASONRY CLASS B FOUNDATIONS AND GEOTEXTILE SHALL BE INCIDENTAL TO ITEM 705504.

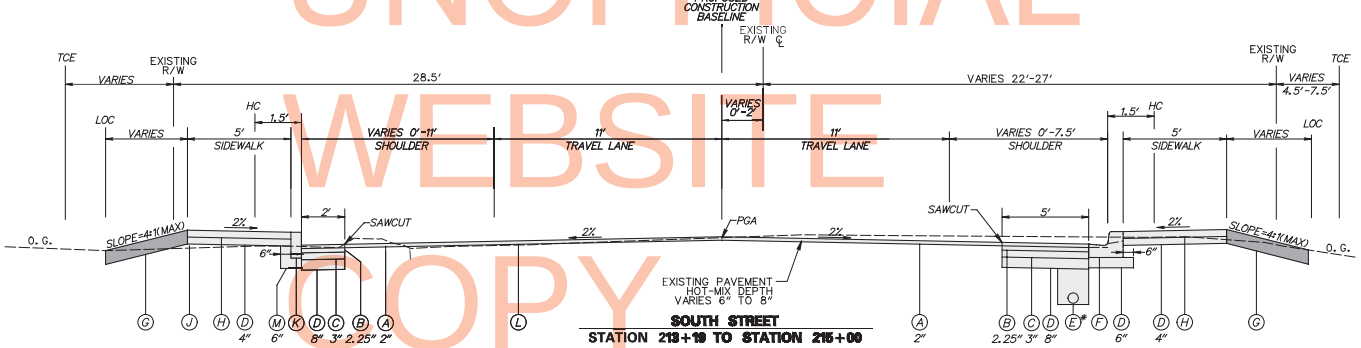
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	WASHINGTON STREET SIDEWALKS	CONTRACT T200201104	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 9
				COUNTY NEW CASTLE	DESIGNED BY: MAG		TOTAL SHTS. 105
					CHECKED BY: PAH		

UNOFFICIAL WEBSITE COPY

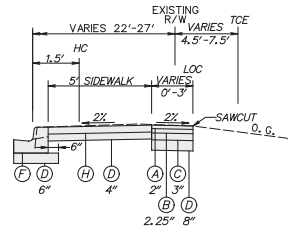


SOUTH STREET
STATION 215+00 TO STATION 217+16

UNOFFICIAL WEBSITE COPY



SOUTH STREET
STATION 213+19 TO STATION 215+00



SOUTH STREET
STATION 213+19 RT TO STATION 213+85 RT

NOTES:
1. THE MAXIMUM LIFTS FOR INDIVIDUAL PAVEMENT MATERIALS ARE AS FOLLOWS:
   - WMA, SUPERPAVE, TYPE C HOT-MIX - 2"
   - WMA, SUPERPAVE, TYPE B HOT-MIX - 3"
   - WMA, SUPERPAVE, BCBC - 6"
   - GABC - 8"

LEGEND

(A) ITEM 401801 - WMA, SUPERPAVE, TYPE C HOT-MIX, 160 GYRATION PG 64-22 (CARBONATE STONE)

(B) ITEM 401810 - WMA, SUPERPAVE, TYPE B HOT-MIX, 160 GYRATION PG 64-22

(C) ITEM 401819 - WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE 160 GYRATIONS PG 64-22

(D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B

(E) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
*TO BE INSTALLED WHERE IDENTIFIED ON CONSTRUCTION PLANS

(F) ITEM 701022 - INTEGRAL P.C.C. CURB AND GUTTER, TYPE 3-8

(G) ITEM 732002 - TOPSOIL, 6" DEPTH AND
ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND

(H) ITEM 705001 - P.C.C. SIDEWALK, 4" DEPTH

(I) ITEM 705505 - RESET STONE/BRICK SIDEWALK (SEE NOTE)

(J) ITEM 209006 - BORROW, TYPE F

(K) ITEM 701501 - RESET EXISTING STONE CURB

(L) ITEM 760507 - PROFILE MILLING, HOT-MIX

(M) ITEM 602002 - PORTLAND CEMENT CONCRETE MASONRY, CLASS B

(N) ITEM 401636 - COLD RECYCLED BITUMINOUS PAVEMENT

(O) ITEM 701019 - INTEGRAL PCC CURB & GUTTER TYPE 3-4

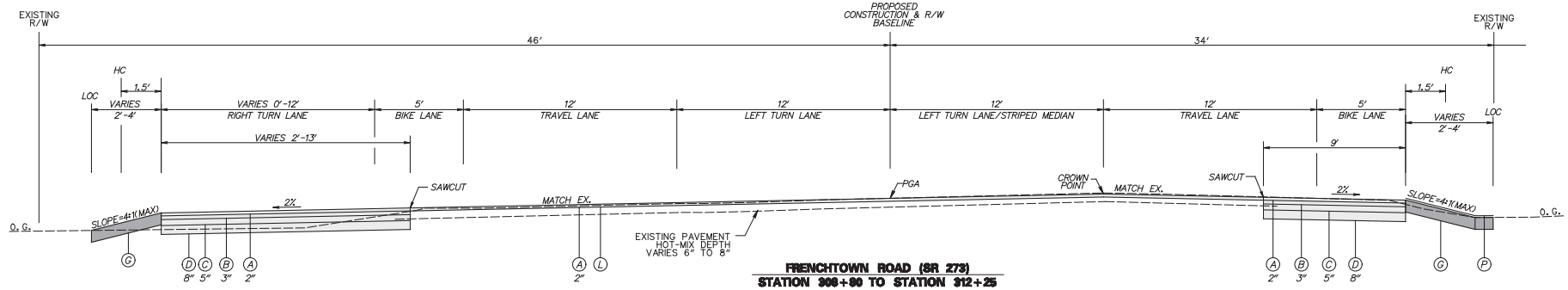
(P) ITEM 735535 - SOIL RETENTION MULCH BLANKET, TYPE 5

(Q) ITEM 401825 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG-64-22, WEDGE

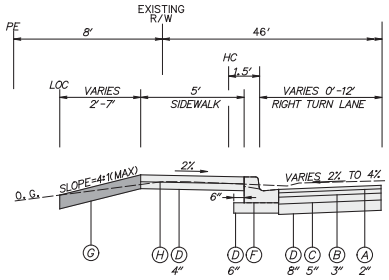
(R) ITEM 701010 - P.C.C. CURB, TYPE 1-8

NOTE: ALL ASSOCIATED DRY SETTING BEDS, PCC MASONRY CLASS B FOUNDATIONS AND GEOTEXTILE SHALL BE INCIDENTAL TO ITEM 705504.

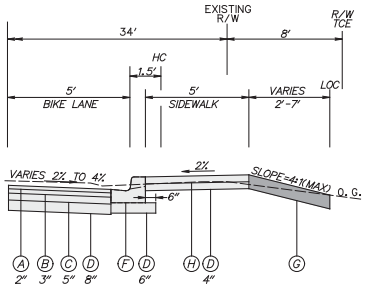
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	WASHINGTON STREET SIDEWALKS	CONTRACT T200201104	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 10
				COUNTY NEW CASTLE	DESIGNED BY: MAG		TOTAL SHTS. 105
					CHECKED BY: PAH		



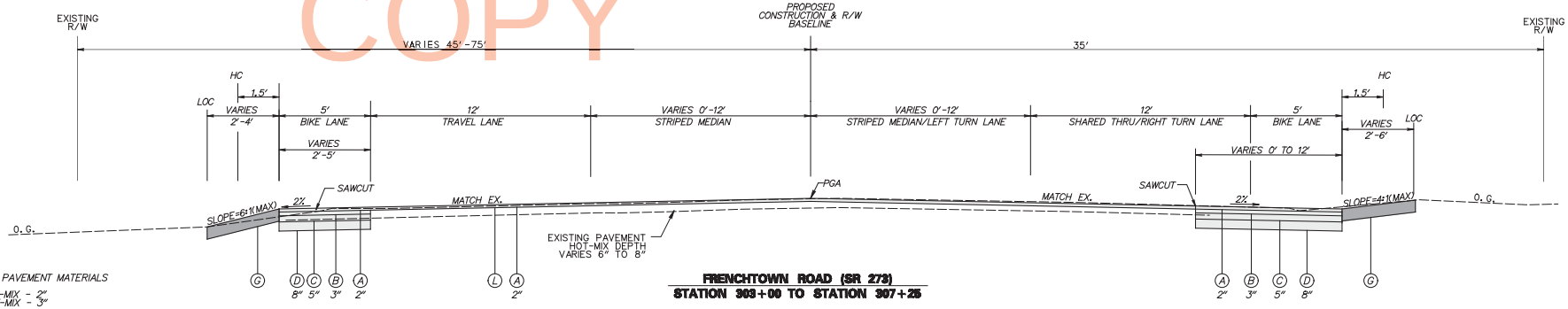
FRENCHTOWN ROAD (SR 273)
STATION 308+80 TO STATION 312+25



FRENCHTOWN ROAD (SR 273)
STATION 310+15 TO STATION 310+68



FRENCHTOWN ROAD (SR 273)
STATION 308+80 TO STATION 311+41



FRENCHTOWN ROAD (SR 273)
STATION 303+00 TO STATION 307+25

NOTES:
1. THE MAXIMUM LIFTS FOR INDIVIDUAL PAVEMENT MATERIALS ARE AS FOLLOWS:
   - WMA, SUPERPAVE, TYPE C HOT-MIX - 2"
   - WMA, SUPERPAVE, TYPE B HOT-MIX - 3"
   - WMA, SUPERPAVE, BCBC - 6"
   - GABC - 8"

LEGEND

(A) ITEM 401801 - WMA, SUPERPAVE, TYPE C HOT-MIX, 160 GYRATION PG 64-22 (CARBONATE STONE)

(B) ITEM 401810 - WMA, SUPERPAVE, TYPE B HOT-MIX, 160 GYRATION PG 64-22

(C) ITEM 401819 - WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE 160 GYRATIONS PG 64-22

(D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B

(E) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
*TO BE INSTALLED WHERE IDENTIFIED ON CONSTRUCTION PLANS

(F) ITEM 701022 - INTEGRAL P.C.C. CURB AND GUTTER, TYPE 3-8

(G) ITEM 732002 - TOPSOIL, 6" DEPTH AND
ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND

(H) ITEM 705001 - P.C.C. SIDEWALK, 4" DEPTH

(I) ITEM 705505 - RESET STONE/BRICK SIDEWALK (SEE NOTE)

(J) ITEM 209006 - BORROW, TYPE F

(K) ITEM 701501 - RESET EXISTING STONE CURB

(L) ITEM 760507 - PROFILE MILLING, HOT-MIX

(M) ITEM 602002 - PORTLAND CEMENT CONCRETE MASONRY, CLASS B

(N) ITEM 401636 - COLD RECYCLED BITUMINOUS PAVEMENT

(O) ITEM 701019 - INTEGRAL PCC CURB & GUTTER TYPE 3-4

(P) ITEM 735535 - SOIL RETENTION MULCH BLANKET, TYPE 5

(Q) ITEM 401825 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG-64-22, WEDGE

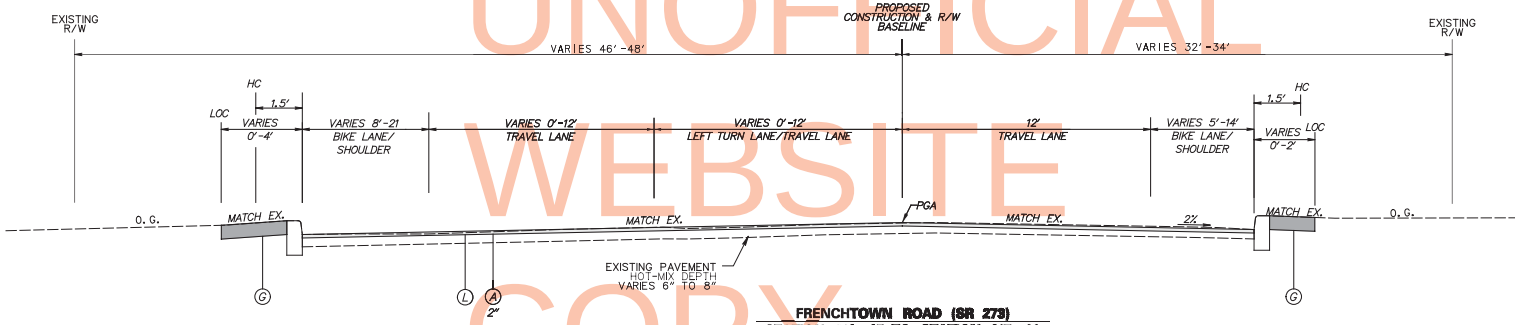
(R) ITEM 701010 - P.C.C. CURB, TYPE 1-8

NOTE: ALL ASSOCIATED DRY SETTING BEDS, PCC MASONRY CLASS B FOUNDATIONS AND GEOTEXTILE SHALL BE INCIDENTAL TO ITEM 705504.

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	WASHINGTON STREET SIDEWALKS	CONTRACT T200201104	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 11
				COUNTY NEW CASTLE	DESIGNED BY: MAG		TOTAL SHTS. 105
					CHECKED BY: PAH		

UNOFFICIAL WEBSITE COPY

UNOFFICIAL WEBSITE COPY



FRENCHTOWN ROAD (SR 273)
STATION 312+25 TO STATION 317+00

NOTES:
1. THE MAXIMUM LIFTS FOR INDIVIDUAL PAVEMENT MATERIALS ARE AS FOLLOWS:
   - WMA, SUPERPAVE, TYPE C HOT-MIX - 2"
   - WMA, SUPERPAVE, TYPE B HOT-MIX - 3"
   - WMA, SUPERPAVE, BCBC - 6"
   - GABC - 8"

LEGEND

(A) ITEM 401801 - WMA, SUPERPAVE, TYPE C HOT-MIX, 160 GYRATION PG 64-22 (CARBONATE STONE)

(B) ITEM 401810 - WMA, SUPERPAVE, TYPE B HOT-MIX, 160 GYRATION PG 64-22

(C) ITEM 401819 - WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE 160 GYRATIONS PG 64-22

(D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B

(E) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
*TO BE INSTALLED WHERE IDENTIFIED ON CONSTRUCTION PLANS

(F) ITEM 701022 - INTEGRAL P.C.C. CURB AND GUTTER, TYPE 3-8

(G) ITEM 732002 - TOPSOIL, 6" DEPTH AND
ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND

(H) ITEM 705001 - P.C.C. SIDEWALK, 4" DEPTH

(I) ITEM 705505 - RESET STONE/BRICK SIDEWALK (SEE NOTE)

(J) ITEM 209006 - BORROW, TYPE F

(K) ITEM 701501 - RESET EXISTING STONE CURB

(L) ITEM 760507 - PROFILE MILLING, HOT-MIX

(M) ITEM 602002 - PORTLAND CEMENT CONCRETE MASONRY, CLASS B

(N) ITEM 401636 - COLD RECYCLED BITUMINOUS PAVEMENT

(O) ITEM 701019 - INTEGRAL PCC CURB & GUTTER TYPE 3-4

(P) ITEM 735535 - SOIL RETENTION MULCH BLANKET, TYPE 5

(Q) ITEM 401825 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG-64-22, WEDGE

(R) ITEM 701010 - P.C.C. CURB, TYPE 1-8

NOTE: ALL ASSOCIATED DRY SETTING BEDS, PCC MASONRY CLASS B FOUNDATIONS AND GEOTEXTILE SHALL BE INCIDENTAL TO ITEM 705504.

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	WASHINGTON STREET SIDEWALKS	CONTRACT T200201104	BRIDGE NO. N/A	TYPICAL SECTIONS	SHEET NO. 12
				COUNTY NEW CASTLE	DESIGNED BY: MAG		TOTAL SHTS. 105
					CHECKED BY: PAH		

DATUM REFERENCE:
HORIZONTAL-THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83/91)
VERTICAL-THIS PROJECT IS REFERENCED TO NAVD 88
BASED ON THE FOLLOWING STATE OF DELAWARE BENCHMARKS:
GPS-SR92; GPS-SR9B; GPS-BPK1; GPS-BPKA

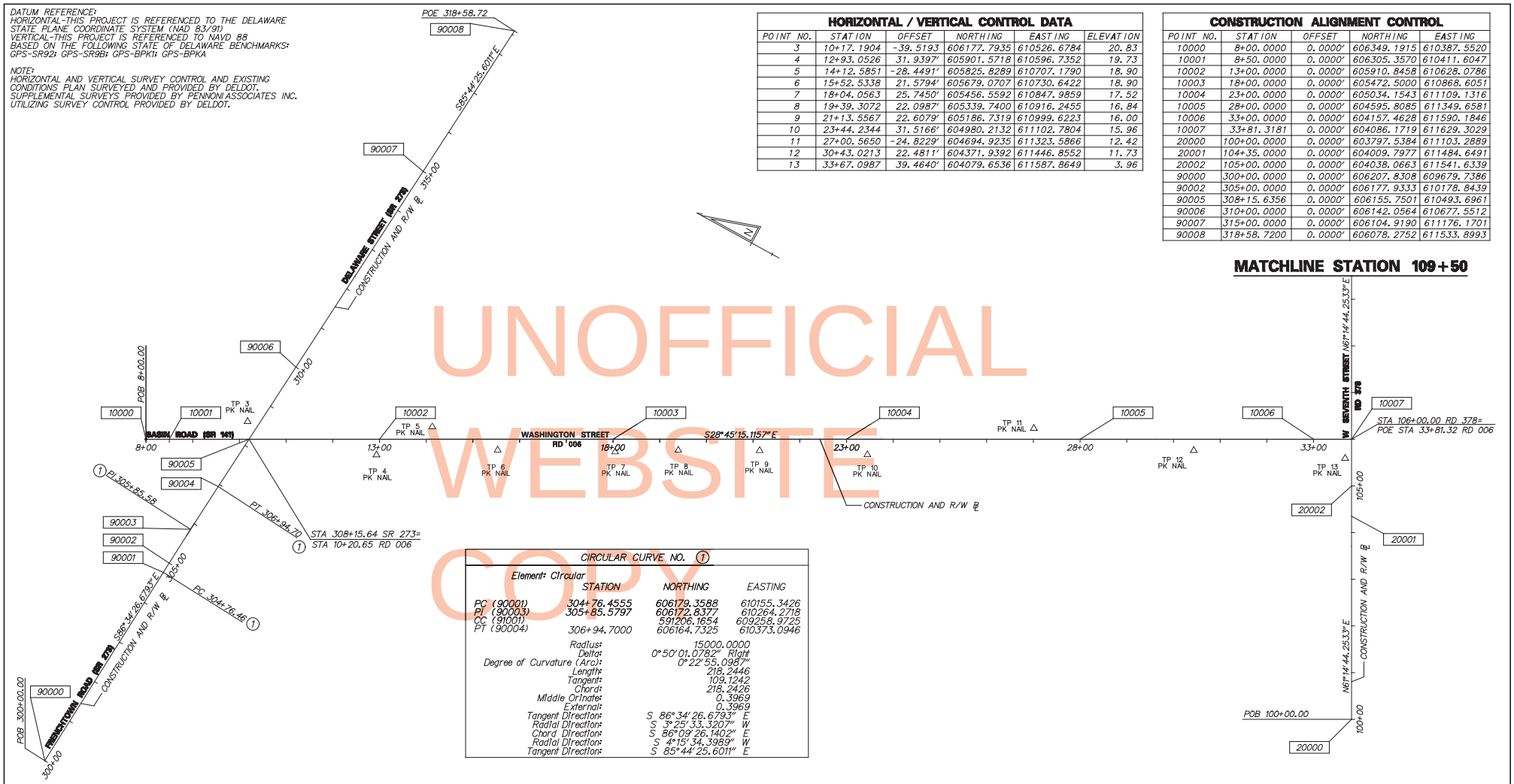
NOTE:
HORIZONTAL AND VERTICAL SURVEY CONTROL AND EXISTING CONDITIONS PLAN SURVEYED AND PROVIDED BY DELDOT.
SUPPLEMENTAL SURVEYS PROVIDED BY PENNONI ASSOCIATES INC.
UTILIZING SURVEY CONTROL PROVIDED BY DELDOT.

HORIZONTAL / VERTICAL CONTROL DATA

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
3	10+17.1904	-39.5193	606177.7935	610526.6784	20.83
4	12+93.0526	31.9397′	605901.5718	610596.7352	19.73
5	14+12.5851	-28.4491′	605825.8289	610707.1790	18.90
6	15+52.5338	21.5794′	605679.0707	610730.6422	18.90
7	18+04.0563	25.7450′	605456.5592	610847.9859	17.52
8	19+39.3072	22.0987′	605339.7400	610916.2455	16.84
9	21+13.5567	22.6079′	605186.7319	610999.6223	16.00
10	23+44.2344	31.5166′	604980.2132	611102.7804	15.96
11	27+00.5650	-24.8229′	604694.9235	611323.5866	12.42
12	30+43.0213	22.4811′	604371.9392	611446.8552	11.73
13	33+67.0987	39.4640′	604079.6536	611587.8649	3.96

CONSTRUCTION ALIGNMENT CONTROL

POINT NO.	STATION	OFFSET	NORTHING	EASTING
10000	8+00.0000	0.0000′	606349.1915	610387.5520
10001	8+50.0000	0.0000′	606305.3570	610411.6047
10002	13+00.0000	0.0000′	605910.8458	610628.0786
10003	18+00.0000	0.0000′	605472.5000	610868.6051
10004	23+00.0000	0.0000′	605034.1543	611109.1316
10005	28+00.0000	0.0000′	604595.8085	611349.6581
10006	33+00.0000	0.0000′	604157.4628	611590.1846
10007	33+81.3181	0.0000′	604086.1719	611629.3029
20000	100+00.0000	0.0000′	603797.5384	611103.2889
20001	104+35.0000	0.0000′	604009.7977	611484.6491
20002	105+00.0000	0.0000′	604038.0663	611541.6339
90000	300+00.0000	0.0000′	606207.8308	609679.7386
90002	305+00.0000	0.0000′	606177.9333	610178.8439
90005	308+15.6356	0.0000′	606155.7501	610493.6961
90006	310+00.0000	0.0000′	606142.0564	610677.5512
90007	315+00.0000	0.0000′	606104.9190	611176.1701
90008	318+58.7200	0.0000′	606078.2752	611533.8993



CIRCULAR CURVE NO. 1

Element: Circular	STATION	NORTHING	EASTING
PC (90001)	304+76.4555	606179.3588	610155.3426
PI (90003)	305+85.5797	606172.8377	610264.2718
CC (91001)		591206.1654	609258.9725
PT (90004)	306+94.7000	606164.7325	610373.0946

Radius:	15000.0000
Delta:	0°50′01.0782″ Right
Degree of Curvature (Arc):	0°22′55.0987″
Length:	218.2446
Tangent:	109.1242
Chord:	218.2426
Middle Ordinate:	0.3969
External:	0.3969
Tangent Direction:	S 86°34′26.6793″ E
Radial Direction:	S 3°25′33.3207″ W
Chord Direction:	S 86°09′26.1402″ E
Radial Direction:	S 4°15′34.3989″ W
Tangent Direction:	S 85°44′25.6011″ E

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 100 200 300 FEET	WASHINGTON STREET SIDEWALKS	CONTRACT T200201104	BRIDGE NO. N/A	HORIZONTAL AND VERTICAL CONTROL	SHEET NO. 13
				COUNTY NEW CASTLE	DESIGNED BY: MAG		TOTAL SHTS. 105
					CHECKED BY: PAH		

DATUM REFERENCE:
HORIZONTAL-THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83/91)
VERTICAL-THIS PROJECT IS REFERENCED TO NAVD 88
BASED ON THE FOLLOWING STATE OF DELAWARE BENCHMARKS:
GPS-SR92; GPS-SR9B; GPS-BPK1; GPS-BPKA

NOTE:
HORIZONTAL AND VERTICAL SURVEY CONTROL AND EXISTING CONDITIONS PLAN SURVEYED AND PROVIDED BY DELDOT.
SUPPLEMENTAL SURVEYS PROVIDED BY PENNONI ASSOCIATES INC. UTILIZING SURVEY CONTROL PROVIDED BY DELDOT.

HORIZONTAL / VERTICAL CONTROL DATA

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
14	110+17. 6192	17. 5305′	604271. 7012	612003. 8587	4. 73
15	111+42. 1154	-23. 5215′	604367. 5806	612093. 2550	5. 27
16	115+07. 6524	10. 6968′	604513. 4254	612430. 1785	10. 17
17	117+20. 6508	-17. 2453′	604640. 3861	612603. 4704	13. 80
18	202+81. 4350	14. 0356′	604739. 5754	612734. 0495	12. 35
19	206+78. 8154	27. 1093′	604555. 2467	613086. 3349	10. 05
20	211+22. 7916	13. 4979′	604372. 6031	613488. 3137	11. 60
21	214+87. 1272	-15. 0399′	604133. 8905	613761. 8806	9. 25
22	217+24. 5009	14. 8896′	603941. 7369	613904. 4252	11. 41

NOTES:
1. HORIZONTAL/VERTICAL CONTROL POINTS 14-17 BASED ON W. SEVENTH STREET CONSTRUCTION & R/W BASELINE.
2. HORIZONTAL/VERTICAL CONTROL POINTS 18-22 BASED ON SOUTH STREET CONSTRUCTION & R/W BASELINE.

CONSTRUCTION ALIGNMENT CONTROL

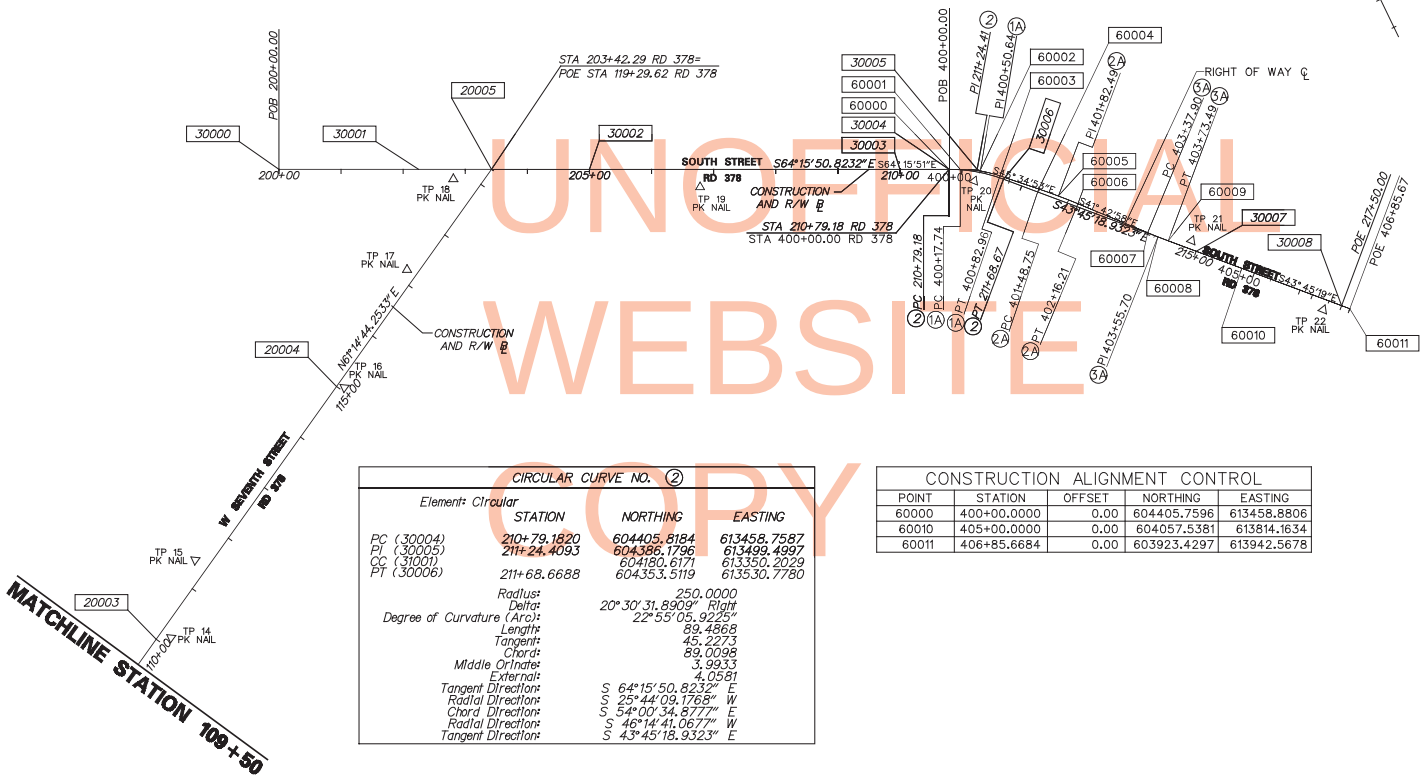
POINT NO.	STATION	OFFSET	NORTHING	EASTING
20003	110+00. 0000	0. 0000′	604278. 5941	611979. 9790
20004	115+00. 0000	0. 0000′	604519. 1220	612418. 3240
20005	119+29. 6184	0. 0000′	604725. 7924	612794. 9661
30000	200+00. 0000	0. 0000′	604874. 4244	612486. 6259
30001	202+25. 0000	0. 0000′	604776. 7241	612689. 3071
30002	205+00. 0000	0. 0000′	604657. 3127	602937. 0285
30003	210+00. 0000	0. 0000′	604440. 2010	613387. 4312
30007	215+00. 0000	0. 0000′	604114. 1912	613759. 9199
30008	217+50. 0000	0. 0000′	603933. 6161	613932. 8147

CIRCULAR CURVE NO. 1A

Element: Circular

	STATION	NORTHING	EASTING
PC (60001)	400+17.7397	604398.0566	613474.8606
PI (60002)	400+50.6394	604383.7708	613504.4968
CC (61001)		604217.8956	613388.0159
PT (60003)	400+82.9551	604360.7444	613527.9952

Radius:	200.0000
Delta:	18° 40′58.1979″ Right
Degree of Curvature (Arc):	28° 38′52.4031″
Length:	65.2154
Tangent:	32.8997
Chord:	64.9269
Middle Orinate:	2.6523
External:	2.6879
Tangent Direction:	S 64° 15′50.8162″ E
Radial Direction:	S 25° 44′09.1838″ W
Chord Direction:	S 54° 55′21.7172″ E
Radial Direction:	S 44° 25′07.3818″ W
Tangent Direction:	S 45° 34′52.6182″ E



CIRCULAR CURVE NO. 2A

Element: Circular

	STATION	NORTHING	EASTING
PC (60004)	401+48.7520	604314.6933	613574.9903
PI (60005)	401+82.4942	604291.0773	613599.0905
CC (61002)		603600.4492	612875.0936
PT (60006)	402+16.2108	604265.8904	613621.5439

Radius:	1000.0000
Delta:	3° 51′54.3600″ Right
Degree of Curvature (Arc):	5° 43′46.4806″
Length:	67.4587
Tangent:	33.7422
Chord:	67.4459
Middle Orinate:	0.5688
External:	0.5691
Tangent Direction:	S 45° 34′52.6182″ E
Radial Direction:	S 44° 25′07.3818″ W
Chord Direction:	S 43° 38′55.4382″ E
Radial Direction:	S 48° 17′01.7418″ W
Tangent Direction:	S 41° 42′58.2582″ E

CIRCULAR CURVE NO. 2

Element: Circular

	STATION	NORTHING	EASTING
PC (30004)	210+79.1820	604405.8184	613458.7587
PI (30005)	211+24.4093	604386.1796	613499.4997
CC (31001)		604180.6171	613350.2029
PT (30006)	211+68.6688	604353.5119	613530.7780

Radius:	250.0000
Delta:	20° 30′31.8909″ Right
Degree of Curvature (Arc):	22° 55′05.9225″
Length:	89.4868
Tangent:	45.2273
Chord:	89.0098
Middle Orinate:	3.9933
External:	4.0581
Tangent Direction:	S 64° 15′50.8232″ E
Radial Direction:	S 25° 44′09.1768″ W
Chord Direction:	S 54° 00′34.8777″ E
Radial Direction:	S 46° 14′41.0677″ W
Tangent Direction:	S 43° 45′18.9323″ E

CONSTRUCTION ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
60000	400+00.0000	0.00	604405.7596	613458.8806
60010	405+00.0000	0.00	604057.5381	613814.1634
60011	406+85.6684	0.00	603923.4297	613942.5678

CIRCULAR CURVE NO. 3A

Element: Circular

	STATION	NORTHING	EASTING
PC (60007)	403+37.9000	604175.0555	613702.5210
PI (60008)	403+55.6962	604161.7715	613714.3633
CC (61003)		604840.4967	614448.9712
PT (60009)	403+73.4886	604148.9173	613726.6707

Radius:	1000.0000
Delta:	2° 02′20.6740″ Left
Degree of Curvature (Arc):	5° 43′46.4806″
Length:	35.5886
Tangent:	17.7962
Chord:	35.5867
Middle Orinate:	0.1583
External:	0.1583
Tangent Direction:	S 41° 42′58.2582″ E
Radial Direction:	S 48° 17′01.7418″ W
Chord Direction:	S 42° 44′08.5952″ E
Radial Direction:	S 46° 14′41.0677″ W
Tangent Direction:	S 43° 45′18.9323″ E

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 100 200 300 FEET

WASHINGTON STREET SIDEWALKS

CONTRACT	BRIDGE NO.	N/A
T200201104	DESIGNED BY: MAG	
COUNTY		
NEW CASTLE	CHECKED BY: PAH	

HORIZONTAL AND VERTICAL CONTROL

SHEET NO. 14
TOTAL SHTS. 105

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
#1 EB	11+23.75	11.36'	5.5" HMA, 7" BROKEN P.C.C.
#2 EB	16+23.62	5.76'	3.5" HMA, 6" P.C.C.
#3 EB	16+23.58	18.59'	9" HMA
#11 WB	15+89.59	-3.28'	10" HMA, 6.25" P.C.C.

DRAINAGE PIPE SCHEDULE

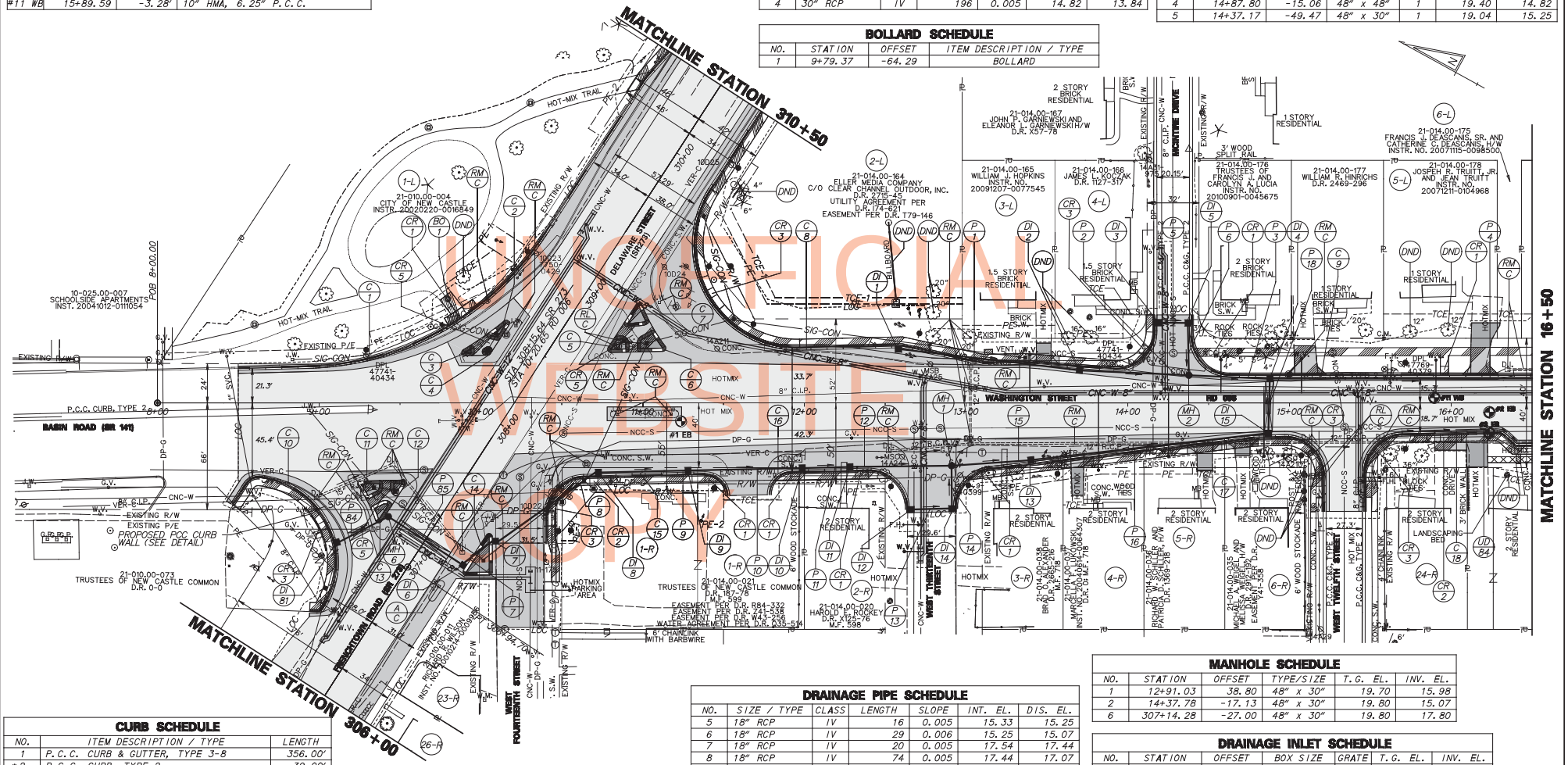
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	18" RCP	IV	114	0.005	15.98	15.41
2	18" RCP	IV	64	0.005	15.41	15.07
3	18" RCP	IV	46	0.005	15.07	14.82
4	30" RCP	IV	196	0.005	14.82	13.84

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
1	12+58.16	-33.13	48" x 30"	1	19.52	15.98
2	13+70.04	-20.31	48" x 30"	1	19.55	15.41
3	14+19.07	-49.62	34" x 24"	1	19.03	15.33
4	14+87.80	-15.06	48" x 48"	1	19.40	14.82
5	14+37.17	-49.47	48" x 30"	1	19.04	15.25

BOLLARD SCHEDULE

NO.	STATION	OFFSET	ITEM DESCRIPTION / TYPE
1	9+79.37	-64.29	BOLLARD



CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	P.C.C. CURB & GUTTER, TYPE 3-8	356.00'
*2	P.C.C. CURB, TYPE 2	39.00'
*3	P.C.C. CURB, TYPE 2	23.00'
*4	P.C.C. CURB, TYPE 2	18.00'
*5	P.C.C. CURB, TYPE 2	40.00'
*6	P.C.C. CURB, TYPE 2	51.00'
*7	P.C.C. CURB, TYPE 2	48.00'
8	P.C.C. CURB & GUTTER, TYPE 3-8	445.00'
9	P.C.C. CURB & GUTTER, TYPE 3-8	240.00'
10	P.C.C. CURB & GUTTER, TYPE 3-8	147.00'
*11	P.C.C. CURB, TYPE 2	44.00'

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
*12	P.C.C. CURB, TYPE 2	31.00'
*13	P.C.C. CURB, TYPE 2	41.00'
*14	P.C.C. CURB, TYPE 2	76.00'
15	P.C.C. CURB & GUTTER, TYPE 3-8	156.00'
16	P.C.C. CURB & GUTTER, TYPE 3-8	114.00'
17	P.C.C. CURB & GUTTER, TYPE 3-8	286.00'
18	P.C.C. CURB & GUTTER, TYPE 3-8	147.00'

* DIMENSIONS FOR TYPE 2 CURB ARE FOR INFORMATIONAL PURPOSES ONLY. PCC CURB, TYPE 2 IS INCIDENTAL TO ITEM 705530 - TRIANGULAR CHANNELIZATION ISLANDS.

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
5	18" RCP	IV	16	0.005	15.33	15.25
6	18" RCP	IV	29	0.006	15.25	15.07
7	18" RCP	IV	20	0.005	17.54	17.44
8	18" RCP	IV	74	0.005	17.44	17.07
9	18" RCP	IV	54	0.005	17.07	16.80
10	24" RCP	IV	72	0.005	16.80	16.44
11	24" RCP	IV	25	0.006	16.44	16.29
12	24" RCP	IV	62	0.005	16.29	15.98
13	18" RCP	IV	24	0.005	16.23	16.11
14	18" RCP	IV	22	0.006	16.11	15.98
15	24" RCP	IV	50	0.005	15.98	15.73
16	24" RCP	IV	148	0.005	15.73	14.99
18	24" RCP	IV	29	0.006	14.99	14.82
84	18" RCP	IV	32	0.005	17.96	17.80
85	18" RCP	IV	52	0.005	17.80	17.54

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
1	12+91.03	38.80	48" x 30"	19.70	15.98
2	14+37.78	-17.13	48" x 30"	19.80	15.07
6	307+14.28	-27.00	48" x 30"	19.80	17.80

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
6	307+14.28	28.00	48" x 48"	4	22.22	17.54
7	307+37.71	36.83	48" x 30"	4	22.02	17.44
8	10+72.58	42.98	48" x 48"	4	20.45	17.07
9	11+27.99	41.75	48" x 48"	4	19.87	16.80
10	11+98.61	40.24	48" x 48"	4	19.64	16.44
11	12+28.11	39.54	48" x 48"	4	19.58	16.29
12	12+65.96	65.81	34" x 24"	4	19.69	16.23
13	13+40.09	35.29	48" x 48"	4	19.59	15.73
14	12+91.25	65.23	48" x 30"	4	19.77	16.11
15	14+86.96	18.88	48" x 48"	4	19.18	14.99
81	306+83.46	-45.17	34" x 24"	4	21.15	17.96

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

WASHINGTON STREET SIDEWALKS

CONTRACT	BRIDGE NO.	N/A
T200201104	DESIGNED BY: MAG	
COUNTY		
NEW CASTLE	CHECKED BY: PAH	

CONSTRUCTION PLAN

SHEET NO.
15
TOTAL SHTS.
105

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
19	18" RCP	IV	7	0.008	13.89	13.84
20	30" RCP	IV	146	0.005	13.84	13.11
21	30" RCP	IV	194	0.005	13.11	12.14
22	30" RCP	IV	118	0.005	12.14	11.55
23	30" RCP	IV	5	0.010	11.55	11.50
24	18" RCP	IV	20	0.005	13.63	13.53
25	18" RCP	IV	54	0.005	13.53	13.26
26	18" RCP	IV	30	0.005	13.26	13.11
27	18" RCP	IV	7	0.008	13.16	13.11
86	18" RCP	IV	38	0.005	13.72	13.53
87	18" RCP	IV	18	0.005	13.72	13.63

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
28	18" RCP	IV	8	0.008	12.20	12.14
29	18" RCP	IV	14	0.005	11.77	11.70
30	18" RCP	IV	25	0.006	11.70	11.55
32	18" RCP	IV	82	0.005	11.96	11.55
34	18" RCP	IV	25	0.006	11.55	11.40
35	18" RCP	IV	264	0.005	11.40	10.08

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
19	P.C.C. CURB & GUTTER, TYPE 3-8	238.00'
20	P.C.C. CURB & GUTTER, TYPE 3-8	677.00'
21	P.C.C. CURB & GUTTER, TYPE 3-8	175.00'
22	P.C.C. CURB & GUTTER, TYPE 3-8	584.00'
23	P.C.C. CURB & GUTTER, TYPE 3-4	235.00'

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
#4 EB	21+23.62	5.43'	6.25" HMA, 6" P.C.C.
#10 WB	22+89.65	-3.93'	6" HMA, BROKEN CONCRETE

SAND FILTER SCHEDULE

BMP #	# OF UNITS	CONNECTION LOCATION
567	5	DI #26
566	4	DI #30

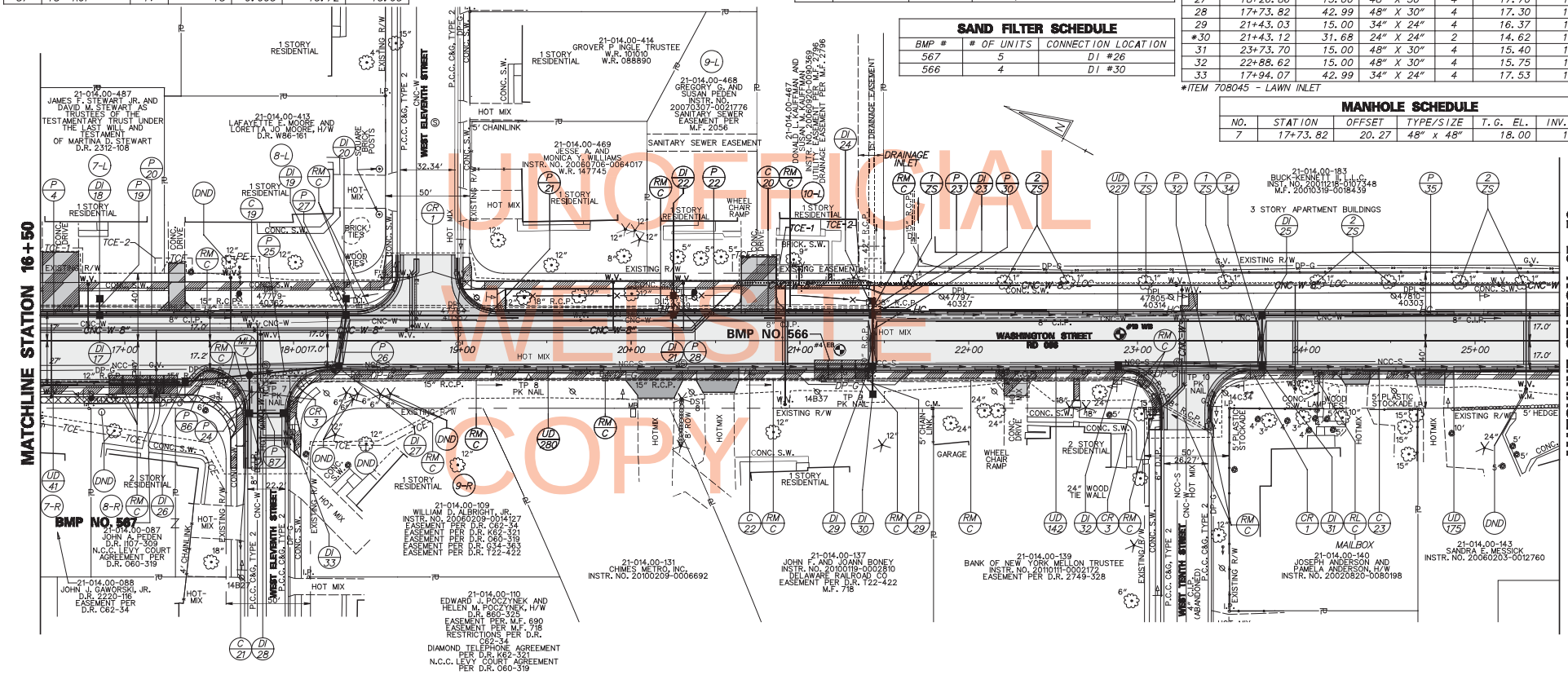
DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
17	16+85.04	-15.00	48" X 48"	4	18.63	13.84
#18	16+85.04	-24.87	24" X 24"	2	18.60	13.89
19	18+31.00	-15.00	48" X 48"	4	17.70	13.11
#20	18+31.00	-24.90	24" X 24"	2	16.74	13.16
21	20+25.10	-15.00	48" X 48"	4	16.88	12.14
#22	20+25.10	-26.81	24" X 24"	2	16.14	12.20
23	21+43.04	-15.00	48" X 48"	4	16.37	11.55
24	21.43.03	-23.60	66" X 30"	4	15.00	11.50
25	23+73.79	-15.00	48" X 30"	4	15.40	11.40
26	17+35.67	24.00	48" X 30"	4	17.91	13.72
27	18+26.86	15.00	48" X 30"	4	17.70	13.26
28	17+73.82	42.99	48" X 30"	4	17.30	13.63
29	21+43.03	15.00	34" X 24"	4	16.37	11.70
#30	21+43.12	31.68	24" X 24"	2	14.62	11.77
31	23+73.70	15.00	48" X 30"	4	15.40	11.55
32	22+88.62	15.00	48" X 30"	4	15.75	11.96
33	17+94.07	42.99	34" X 24"	4	17.53	13.72

*ITEM 708045 - LAWN INLET

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
7	17+73.82	20.27	48" x 48"	18.00	13.53



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LANDSCAPE PLANTING SCHEDULE

KEY	PLANTING DESCRIPTION	QUANTITY
ZS	4" CAL. JAPANESE ZELKOVA-ZELKOVA SERRATA	9

NOTES:
TREES TO BE REPLACED DUE TO WATERMAIN CONSTRUCTION.

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

WASHINGTON STREET SIDEWALKS

CONTRACT	BRIDGE NO.	N/A
T200201104	DESIGNED BY: MAG	
COUNTY		
NEW CASTLE	CHECKED BY: PAH	

CONSTRUCTION PLAN

SHEET NO. 16
TOTAL SHTS. 105

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
24	P.C.C. CURB & GUTTER, TYPE 3-8	131.00'
25	P.C.C. CURB & GUTTER, TYPE 3-4	407.00'
26	P.C.C. CURB & GUTTER, TYPE 3-4	478.00'
27	P.C.C. CURB & GUTTER, TYPE 3-4	135.00'
28	P.C.C. CURB & GUTTER, TYPE 3-4	385.00'
29	P.C.C. CURB & GUTTER, TYPE 3-8	407.00'
* 30	P.C.C. CURB, TYPE 2	29.00'
* 31	P.C.C. CURB, TYPE 2	71.00'
32	P.C.C. CURB & GUTTER, TYPE 3-4	392.00'

* DIMENSIONS FOR TYPE 2 CURB ARE FOR INFORMATIONAL PURPOSES ONLY. PCC CURB, TYPE 2 IS INCIDENTAL TO ITEM 705530 - TRIANGULAR CHANNELIZATION ISLANDS.

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
#5 EB	27+23.62	4.11'	5.75" HMA, 6" P.C.C.
#6 EB	27+23.69	17.06'	6" HMA
#9 WB	27+39.65	-4.97	6.25" HMA
#7 EB	32+23.58	9.35'	6" HMA, 6.25" P.C.C.
#8 WB	32+39.65	0.38'	3.5" HMA, 6" P.C.C.
#6 SB	105+27.47	10.52'	7.75" HMA, 8.25" P.C.C.
#1 NB	108+00.00	11.66'	7.75" HMA, 6.5" P.C.C.

MANHOLE SCHEDULE

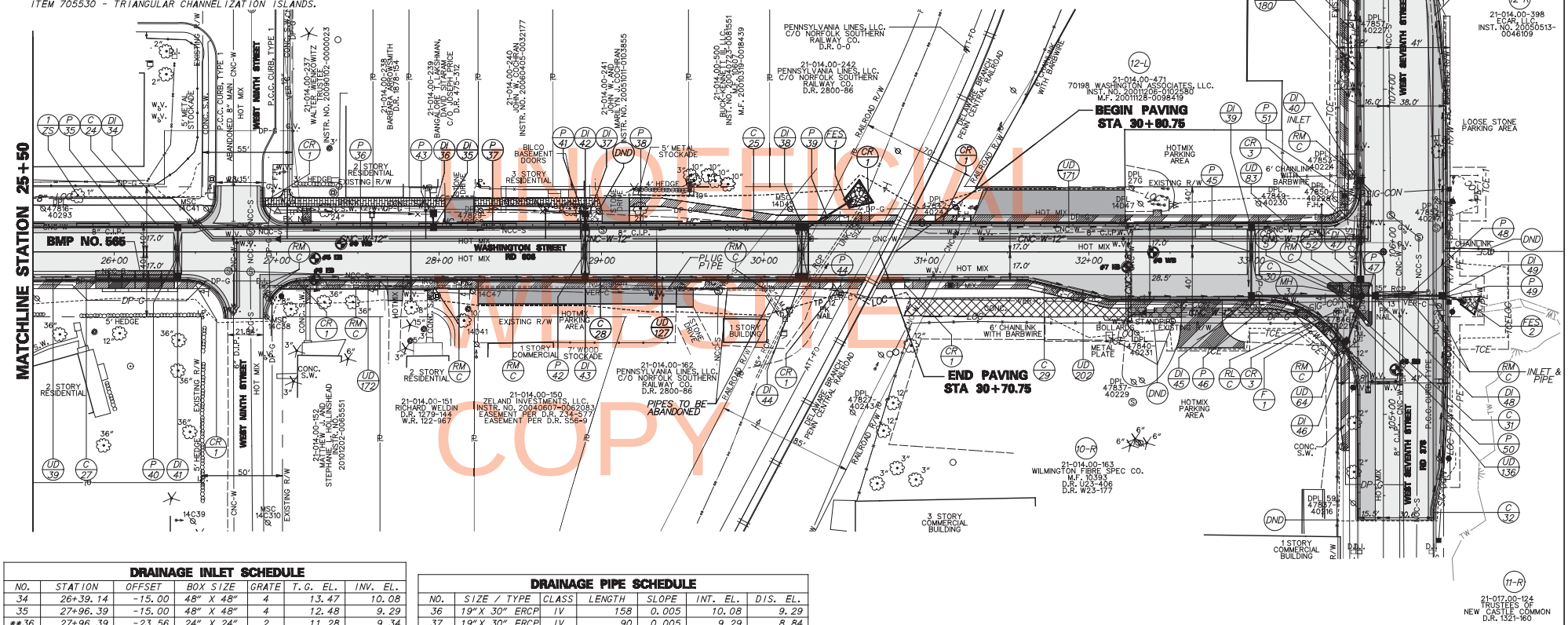
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
3	33+67.89	27.00	48" x 30"	4.49	1.34

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
1	24" RCP	0.005	NO
2	14"X23" ERCP	0.005	NO

SAND FILTER SCHEDULE

BMP #	# OF UNITS	CONNECTION LOCATION
565	6	DI #41



DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
34	26+39.14	-15.00	48" X 48"	4	13.47	10.08
35	27+96.39	-15.00	48" X 48"	4	12.48	9.29
**36	27+96.39	-23.56	24" X 24"	2	11.28	9.34
37	28+90.00	-15.00	48" X 48"	4	12.10	8.84
*38	30+23.25	-15.00	72" X 48"	4	11.49	8.15
39	32+99.96	-15.00	34" X 24"	4	5.76	1.87
40	106+43.86	-14.00	48" X 48"	4	4.25	1.70
41	26+39.06	15.00	34" X 24"	4	13.47	10.23
**42	28+90.00	-23.23	24" X 24"	2	11.00	8.87
43	28+90.00	15.00	34" X 24"	4	12.10	8.99
*44	30+23.06	15.00	72" X 24"	4	11.50	8.30
45	32+99.96	27.00	48" X 48"	4	5.60	1.68
46	105+45.09	-23.19	48" X 30"	4	4.06	1.48
47	105+83.00	-14.00	48" X 30"	4	4.33	1.39
48	105+73.00	-5.00	48" X 30"	4	4.32	1.30
49	105+73.00	36.08	48" X 30"	4	3.97	1.10

* DOUBLE GRATE
**ITEM 708045 - LAWN INLET

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
36	19"X 30" ERCP	IV	158	0.005	10.08	9.29
37	19"X 30" ERCP	IV	90	0.005	9.29	8.84
38	19"X 30" ERCP	IV	128	0.005	8.84	8.20
39	24" RCP	IV	27	0.006	8.15	8.00
40	18" RCP	IV	25	0.006	10.23	10.08
41	14"X 23" ERCP	IV	5	0.006	8.87	8.84
42	18" RCP	IV	25	0.006	8.99	8.84
43	18" RCP	IV	5	0.010	9.34	9.29
44	18" RCP	IV	25	0.006	8.30	8.15
45	14"X 23" ERCP	IV	38	0.005	1.87	1.68
46	14"X 23" ERCP	IV	68	0.005	1.68	1.34
47	14"X 23" ERCP	IV	5	0.008	1.34	1.30
48	14"X 23" ERCP	IV	40	0.005	1.30	1.10
49	14"X 23" ERCP	IV	8	0.013	1.10	1.00
50	14"X 23" ERCP	IV	28	0.005	1.48	1.34
51	14"X 23" ERCP	IV	62	0.005	1.70	1.39
52	14"X 23" ERCP	IV	8	0.007	1.39	1.34

LANDSCAPE PLANTING SCHEDULE

KEY	PLANTING DESCRIPTION	QUANTITY
ZS	4" CAL. JAPANESE ZELKOVA-ZELKOVA SERRATA	1

NOTES:
TREE TO BE REPLACED DUE TO WATERMAIN CONSTRUCTION.

FENCE SCHEDULE

NO.	QTY.	DESCRIPTION	NOTES
1	30	CHAINLINK FENCE, 6 FT. HIGH (ITEM 727004)	STA. 33+31, 44' RT. TO STA. 33+53, 66' RT. (+/-)

NOTES:
EXISTING RAILROAD CROSSING AND WARNING SIGNALS TO BE REMOVED AND NEW SIGNALS AND CROSSING TO BE INSTALLED BY OTHERS. NEW SIDEWALK AND CURB SHALL BE TAPERED DOWN AT 12:1 RATIO TO MATCH THE EDGE OF THE CONCRETE PAD AT CROSSING.

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

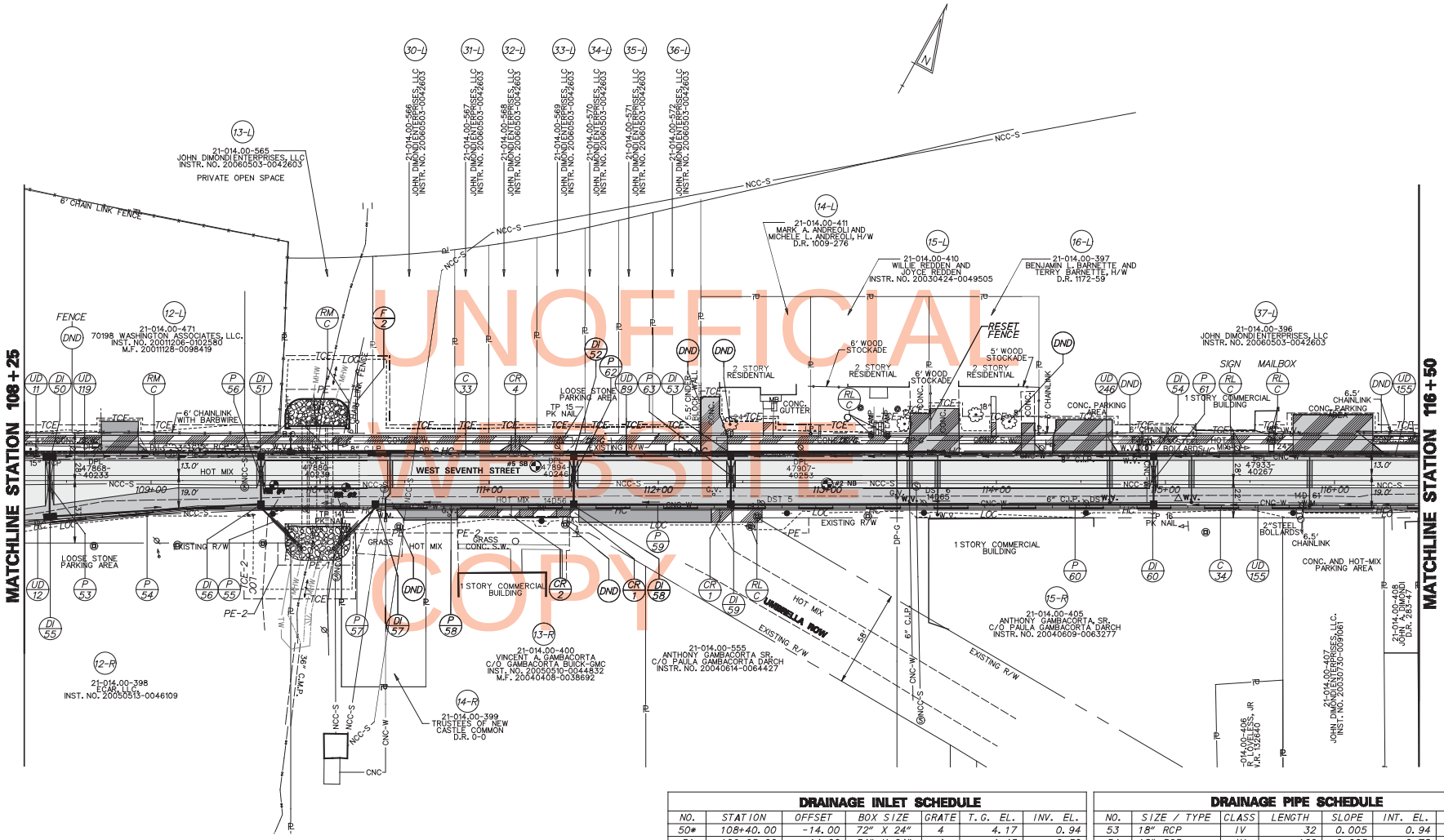
SCALE 0 30 60 90 FEET

WASHINGTON STREET SIDEWALKS

CONTRACT	BRIDGE NO.	N/A
T200201104	DESIGNED BY: MAG	
COUNTY		
NEW CASTLE	CHECKED BY: PAH	

CONSTRUCTION PLAN

SHEET NO. 17 TOTAL SHTS. 105



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FENCE SCHEDULE

NO.	QTY.	DESCRIPTION	NOTES
2	39 LF	CHAINLINK FENCE, 6 FT. HIGH (ITEM 727004)	STA. 110+22, 28' LT. TO STA. 110+22, 67' LT. (+/-)

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
33	P.C.C. CURB & GUTTER, TYPE 3-4	825.00'
34	P.C.C. CURB & GUTTER, TYPE 3-4	826.00'

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
#5 SB	111+27.48	-5.57'	2.25" HMA, 8.5" P.C.C.
#2 NB	113+00.00	5.00'	3.5" HMA, 8.5" P.C.C.

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
50*	108+40.00	-14.00	72" X 24"	4	4.17	0.94
51	109+65.00	-14.00	34" X 24"	4	4.43	0.30
52	111+50.00	-14.00	34" X 24"	4	5.39	0.87
53	112+43.00	-14.00	34" X 24"	4	6.13	1.32
54	114+93.00	-14.00	34" X 24"	4	9.54	2.55
55*	108+40.00	21.46	72" X 48"	4	4.16	0.78
56	109+65.00	14.00	48" X 30"	4	4.43	0.18
57	110+32.75	14.00	66" X 30"	4	4.66	0.18
58	111+50.00	14.00	48" X 30"	4	5.39	0.75
59	112+43.00	14.00	48" X 30"	4	6.13	1.20
60	114+93.00	14.00	48" X 30"	4	9.54	2.43

* DOUBLE GRATE

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
53	18" RCP	IV	32	0.005	0.94	0.78
54	18" RCP	IV	120	0.005	0.78	0.18
55	18" RCP	IV	36	0.005	0.18	0.00
56	18" RCP	IV	24	0.005	0.30	0.18
57	24" RCP	IV	36	0.005	0.18	0.00
58	18" RCP	IV	114	0.005	0.75	0.18
59	18" RCP	IV	90	0.005	1.20	0.75
60	18" RCP	IV	246	0.005	2.43	1.20
61	18" RCP	IV	24	0.005	2.55	2.43
62	18" RCP	IV	24	0.005	0.87	0.75
63	18" RCP	IV	24	0.005	1.32	1.20

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

WASHINGTON STREET SIDEWALKS

CONTRACT	BRIDGE NO.	N/A
T200201104	DESIGNED BY: MAG	
COUNTY		
NEW CASTLE	CHECKED BY: PAH	

CONSTRUCTION PLAN

SHEET NO.
18
TOTAL SHTS.
105

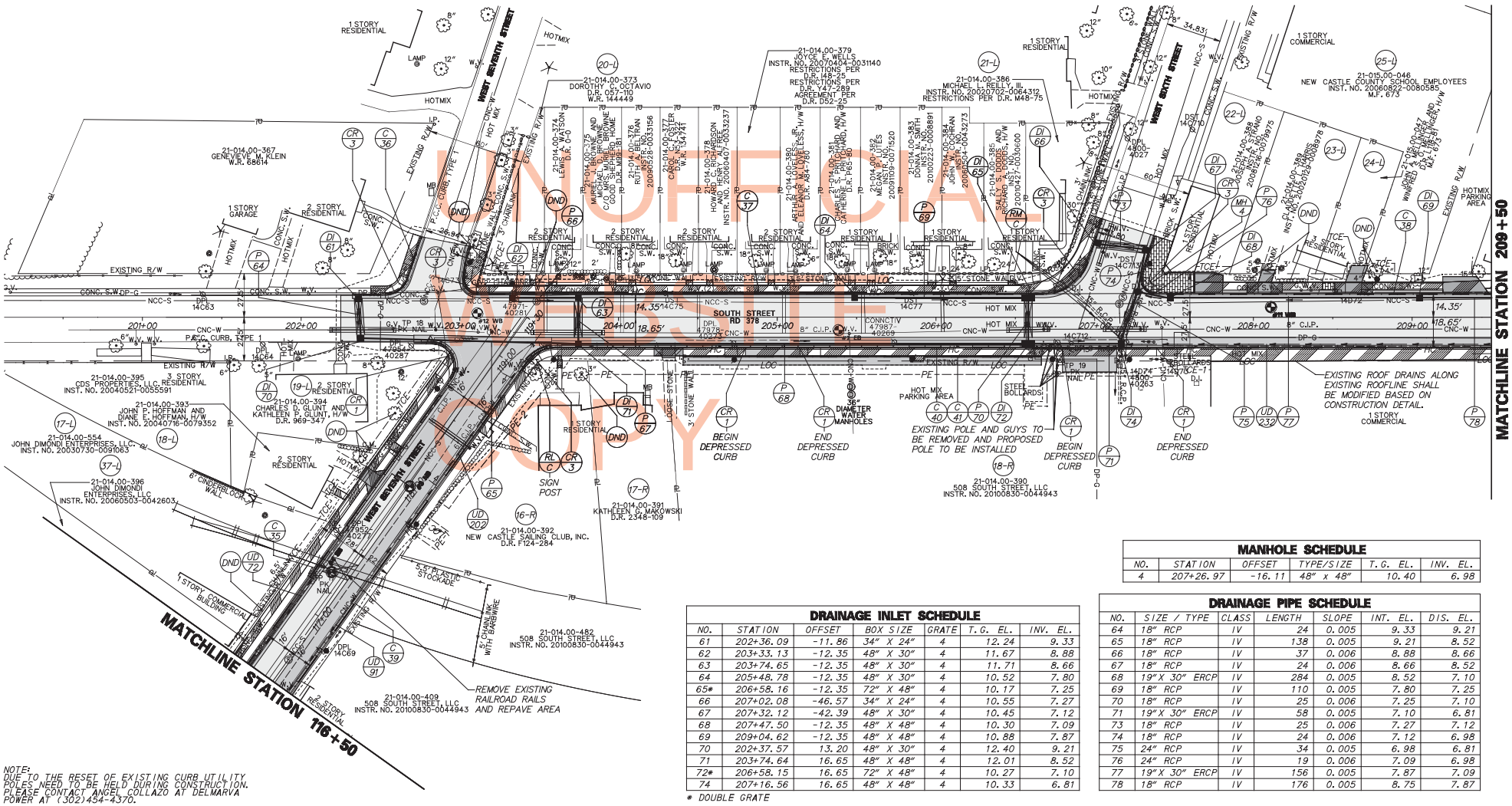
ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
#4 SB	117+27.48	-4.00'	2" HMA, 8.5" P.C.C.
#3 NB	118+00.00	4.70'	2.25" HMA, 8.5" P.C.C.
#12 WB	203+11.10	-2.54'	3.75" HMA, 3.75" SLATE
#7 EB	205+38.61	8.08'	6.25" HMA
#11 WB	208+11.10	-6.40'	4.5" HMA

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
35	P.C.C. CURB & GUTTER, TYPE 3-4	267.00'
36	P.C.C. CURB, TYPE 1-8	68.00'
37	RESET STONE CURB **	459.00'
38	RESET STONE CURB **	256.00'
39	P.C.C. CURB & GUTTER, TYPE 3-4	256.00'
40	P.C.C. CURB & GUTTER, TYPE 3-8	613.00'
41	P.C.C. CURB, TYPE 1-8	232.00'

** INSTALL NEW STONE CURB IF UNABLE TO RESET EXISTING STONE CURB, PAID FOR UNDER ITEM#701502 OR 701503



MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
4	207+26.97	-16.11	48" x 48"	10.40	6.98

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
61	202+36.09	-11.86	34" X 24"	4	12.24	9.33
62	203+33.13	-12.35	48" X 30"	4	11.67	8.88
63	203+74.65	-12.35	48" X 30"	4	11.71	8.66
64	205+48.78	-12.35	48" X 30"	4	10.52	7.80
65*	206+58.16	-12.35	72" X 48"	4	10.17	7.25
66	207+02.08	-46.57	34" X 24"	4	10.55	7.27
67	207+32.12	-42.39	48" X 30"	4	10.45	7.12
68	207+47.50	-12.35	48" X 48"	4	10.30	7.09
69	209+04.62	-12.35	48" X 48"	4	10.88	7.87
70	202+37.57	13.20	48" X 30"	4	12.40	9.21
71	203+74.64	16.65	48" X 48"	4	12.01	8.52
72*	206+58.15	16.65	72" X 48"	4	10.27	7.10
74	207+16.56	16.65	48" X 48"	4	10.33	6.81

* DOUBLE GRATE

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
64	18" RCP	IV	24	0.005	9.33	9.21
65	18" RCP	IV	138	0.005	9.21	8.52
66	18" RCP	IV	37	0.006	8.88	8.66
67	18" RCP	IV	24	0.006	8.66	8.52
68	19"X 30" ERCP	IV	284	0.005	8.52	7.10
69	18" RCP	IV	110	0.005	7.80	7.25
70	18" RCP	IV	25	0.006	7.25	7.10
71	19"X 30" ERCP	IV	58	0.005	7.10	6.81
73	18" RCP	IV	25	0.006	7.27	7.12
74	18" RCP	IV	24	0.006	7.12	6.98
75	24" RCP	IV	34	0.005	6.98	6.81
76	24" RCP	IV	19	0.006	7.09	6.98
77	19"X 30" ERCP	IV	156	0.005	7.87	7.09
78	18" RCP	IV	176	0.005	8.75	7.87

NOTE:
DUE TO THE RESET OF EXISTING CURB UTILITY POLES NEED TO BE HELD DURING CONSTRUCTION. PLEASE CONTACT ANGEL COLLAZO AT DELMARVA POWER AT (302)454-4370.

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

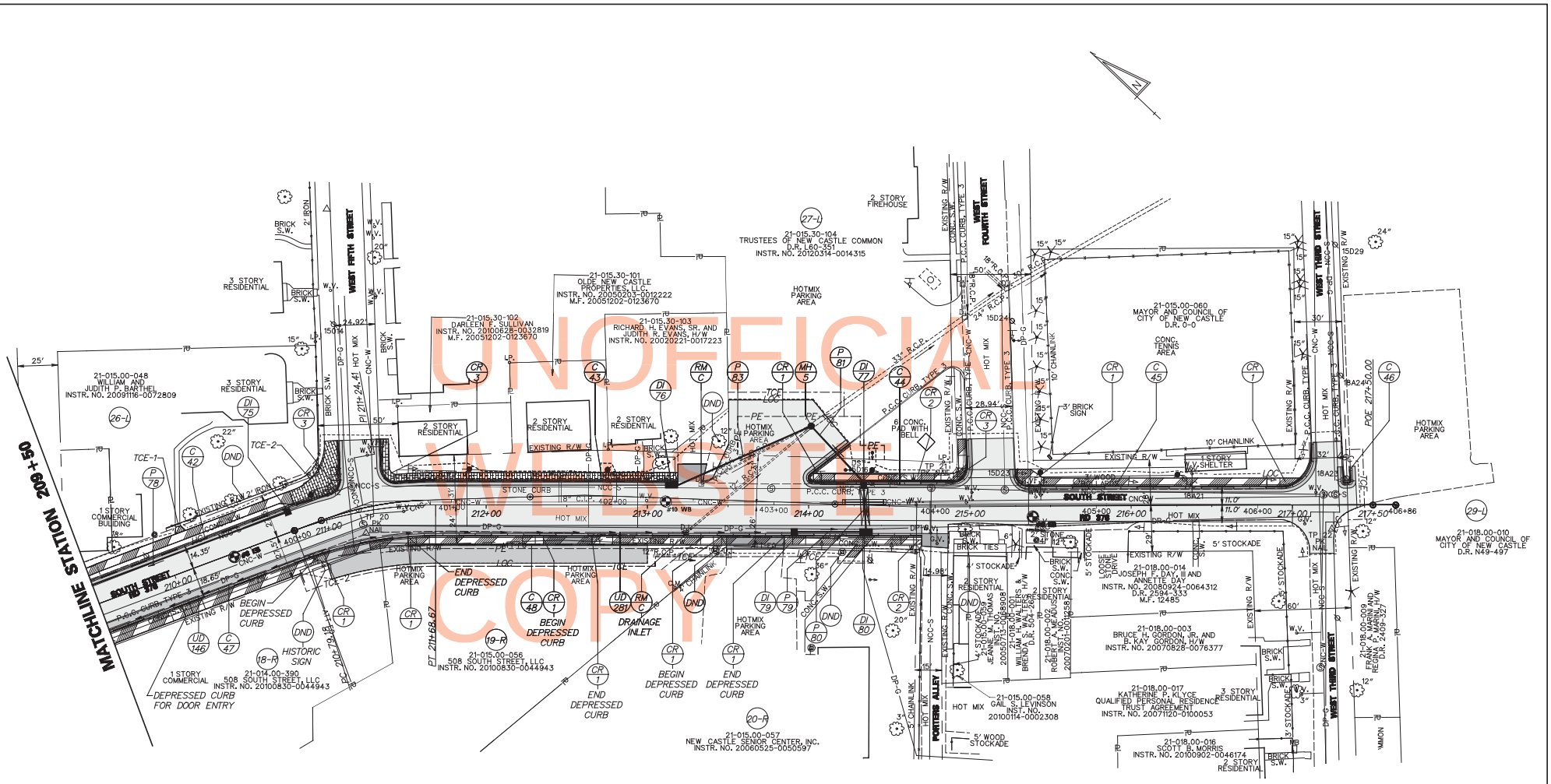
SCALE 0 30 60 90 FEET

WASHINGTON STREET SIDEWALKS

CONTRACT	BRIDGE NO.	N/A
T200201104	DESIGNED BY: MAG	
COUNTY		
NEW CASTLE	CHECKED BY: PAH	

CONSTRUCTION PLAN

SHEET NO.
19
TOTAL SHTS.
105



CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
42	RESET STONE CURB **	195.00'
43	RESET STONE CURB **	209.00'
44	P.C.C. CURB AND GUTTER, TYPE 3-8	162.00'
45	P.C.C. CURB AND GUTTER, TYPE 3-8	215.00'
46	P.C.C. CURB AND GUTTER, TYPE 3-8	28.00'
47	P.C.C. CURB AND GUTTER, TYPE 3-8	514.00'
48	P.C.C. CURB, TYPE 1-8	149.00'

** INSTALL NEW STONE CURB IF UNABLE TO RESET EXISTING STONE CURB, PAID FOR UNDER ITEM#701502 OR 701503

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
79	18" RCP	IV	37	0.006	6.89	6.67
80	18" RCP	IV	24	0.006	6.67	6.53
81	24" RCP	IV	50	0.005	6.53	6.28
83	24" RCP	IV	92	0.005	6.74	6.28

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
75	210+79.18	-12.35	48" X 30"	4	11.52	8.75
76*	213+14.97	-12.35	72" X 48"	4	10.01	6.74
77	214+34.23	-12.00	48" X 30"	4	9.60	6.53
79	213+91.00	16.65	48" X 30"	4	9.64	6.89
80*	214+35.51	16.65	72" X 48"	4	9.55	6.67

* DOUBLE GRATE

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
5	214+01.58	-49.03'	48" x 48"	9.41	6.28

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
#8 EB	210+38.61	2.28'	4.5" HMA
#10 WB	213+11.46	2.18'	3.5" HMA
#9 EB	215+39.04	7.24'	7.5" HMA

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

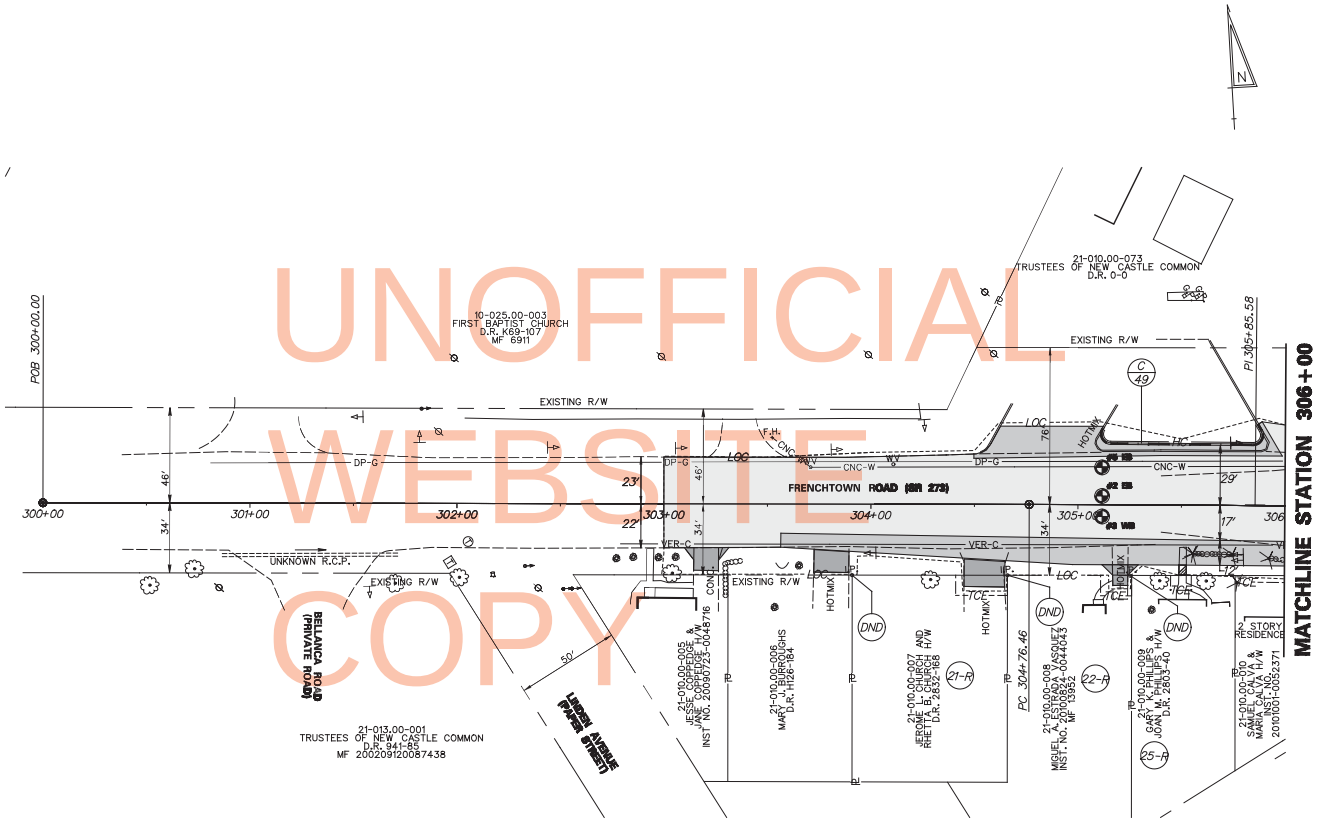
WASHINGTON STREET SIDEWALKS

CONTRACT	BRIDGE NO.	N/A
T200201104	DESIGNED BY: MAG	
COUNTY		
NEW CASTLE	CHECKED BY: PAH	

CONSTRUCTION PLAN

SHEET NO. 20
TOTAL SHTS. 105

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
49	P.C.C. CURB, TYPE 1-8	94.00'



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ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
#2 EB	300+00.00	-5.00'	6.0" HMA
#3 WB	300+00.00	5.00'	5.25" HMA, 8.5" P.C.C.
#5 EB	300+00.00	-18.79'	7.25" HMA, 7" CRUSHER RUN

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	WASHINGTON STREET SIDEWALKS	CONTRACT T200201104	BRIDGE NO. N/A	CONSTRUCTION PLAN	SHEET NO. 21
				COUNTY NEW CASTLE	DESIGNED BY: MAG		TOTAL SHTS. 105
					CHECKED BY: PAH		