THE STATE OF DELAWARE

DEPARTMENT OF TRANSPORTATION
OFFICE OF TRANSPORTATION SOLUTIONS
PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER- T201206101 CANAL

FEDERAL AID NUMBER- ESTP-2013(39)

CONTRACT TITLE- PAVEMENT & REHABILITATION, NORTH I, 2012

PLANS PREPARED BY: George LeCates
DESIGN TECHNICIAN

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DATE RECOMMENDED: 9/24/13
Christopher Castello
GROUP ENGINEER, CONSTRUCTION – NORTH II

DATE RECOMMENDED:
N/A
ASSIST. DIRECTOR, CONSTRUCTION - NORTH

DATE RECOMMENDED: 9.23.13
James T. Pappas III
ASSIST. DIRECTOR, DESIGN

DATE RECOMMENDED: 9-23-13
ACTING CHIEF ENGINEER

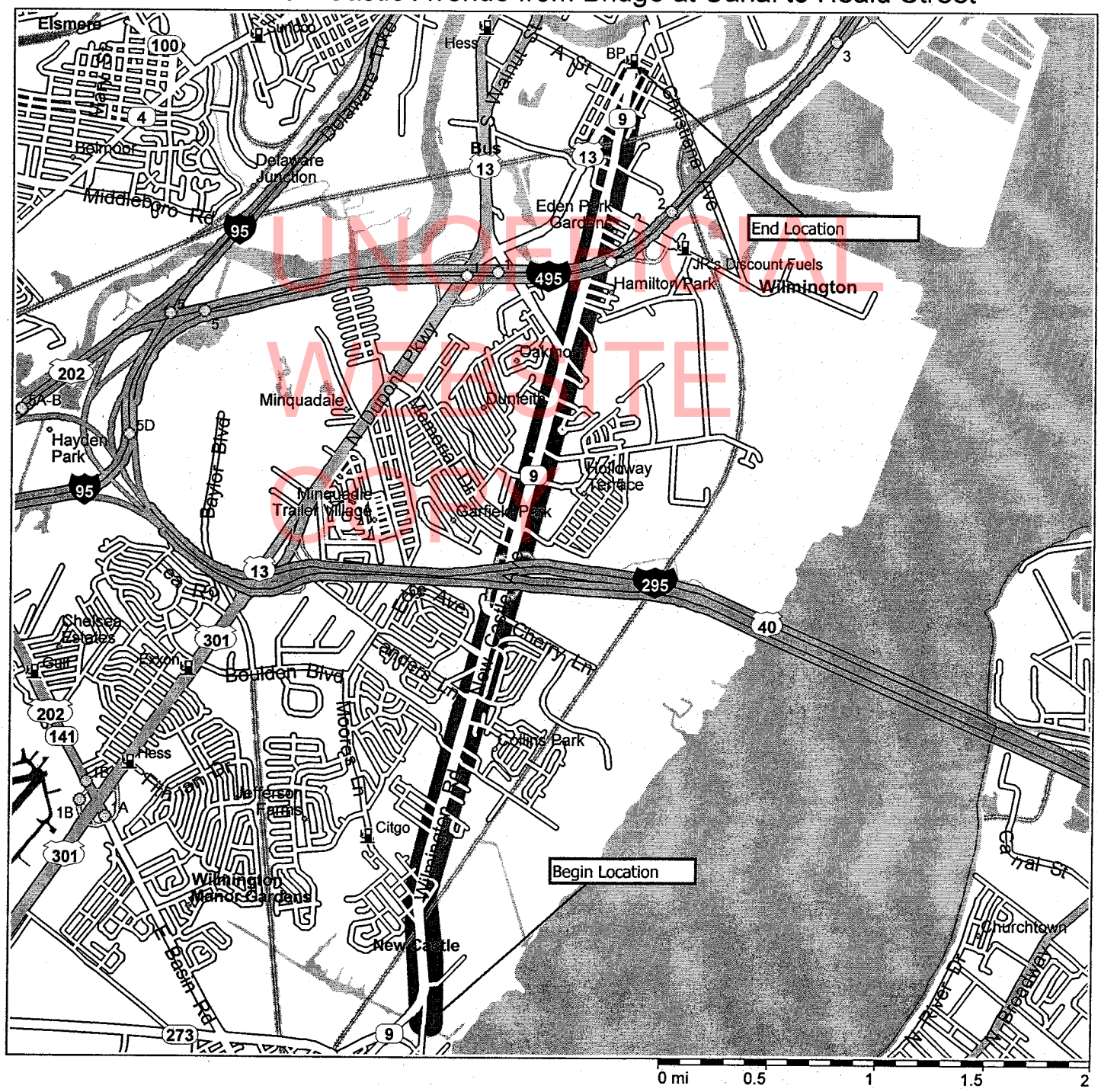
JAMES T. PAPPAS III
LICENSED
No. 10571
DELAWARE
PROFESSIONAL ENGINEER

BARRY A. BENTON
REGISTERED
No. 10774
DELAWARE
PROFESSIONAL ENGINEER

NEW CASTLE AVE (RD19) FROM BRIDGE AT CANAL TO HEALD ST (RD28); HEALD ST (RD28) FROM DUPONT PARKWAY (RD33) TO CHRISTIANA AVE (RD19)

LOCATION MAP

Loc. #1 - New Castle Avenue from Bridge at Canal to Heald Street



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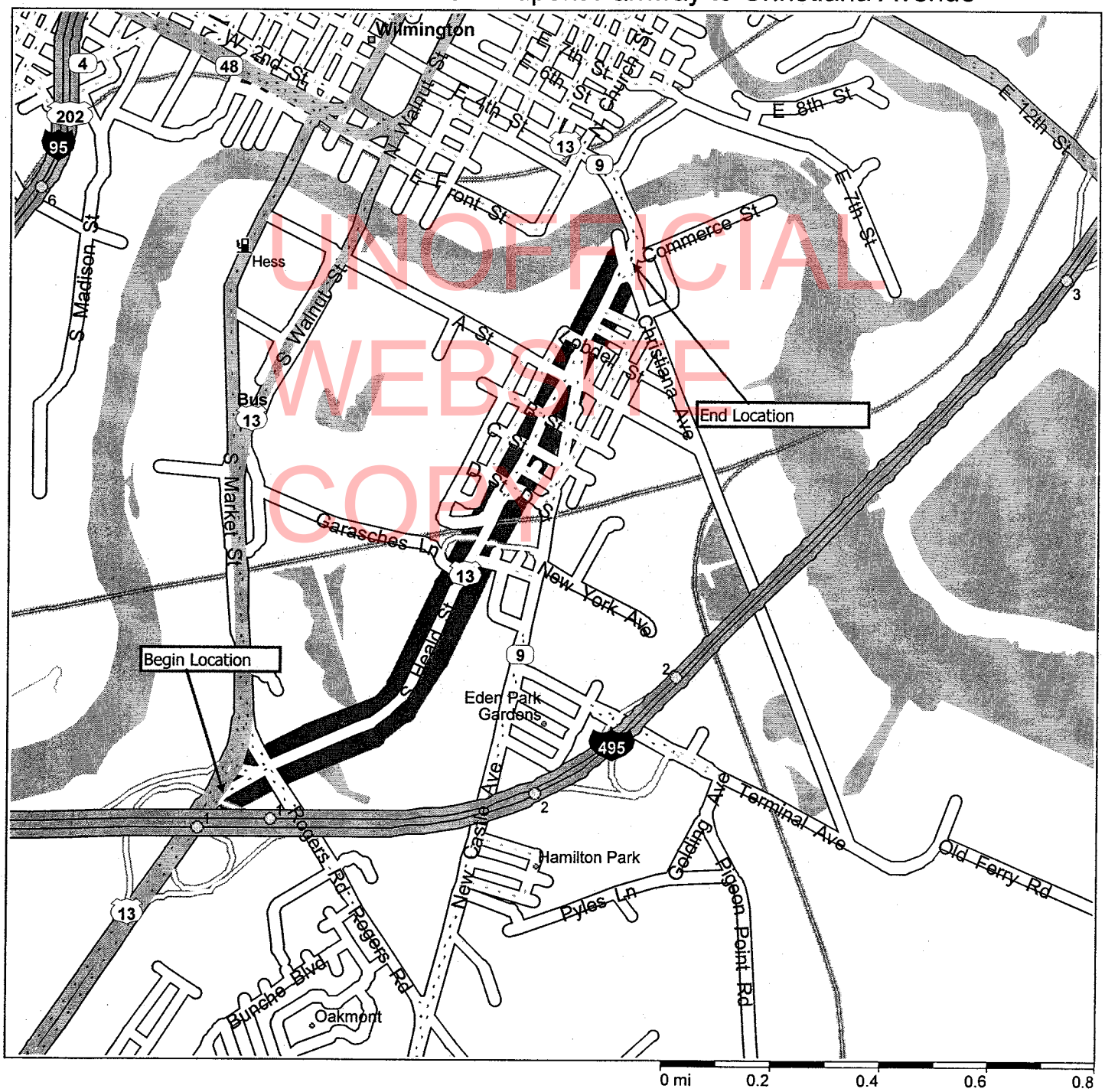
NEW CASTLE AVE (RD19) FROM BRIDGE AT CANAL TO HEALD ST (RD28); HEALD ST (RD28) FROM DUPONT PARKWAY (RD33) TO CHRISTIANA AVE (RD19)

LOCATION MAP

Loc. #2 - Heald Street from Dupont Parkway to Christiana Avenue



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GENERAL CONTRACT PLAN NOTES

REVISED 9/2013

GENERAL

1. CONSTRUCTION OF THIS CONTRACT SHALL CONFORM TO DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED AUGUST 2001 AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS, THE SPECIAL PROVISIONS, THE MOST RECENT STANDARD CONSTRUCTION DETAILS, DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THESE PLANS.

2. THE PURPOSE OF THIS CONTRACT IS TO MAKE GENERAL IMPROVEMENTS TO ROADS AND/OR STREETS WITHIN THE DISTRICT HEREIN SPECIFIED. DEPENDING ON FUND AVAILABILITY, THE DEPARTMENT RESERVES THE RIGHT TO ADD OR DELETE LOCATIONS AND/OR QUANTITIES FOR THIS CONTRACT. SUCH LOCATION OR QUANTITY ADDITIONS OR DELETIONS SHALL NOT BE CAUSE FOR AN INCREASE OR DECREASE IN ANY CONTRACT UNIT BID PRICES. NO ITEM PRICES ARE TO BE RENEGOTIATED DUE TO EITHER AN INCREASE OR DECREASE IN QUANTITY USAGE RESULTING FROM SAID ADDITIONS OR DELETIONS.

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3. THE CONTRACTOR SHALL PROVIDE ALL RESIDENTS AND BUSINESSES WHO LIVE ADJACENT TO THE WORK ZONE A MINIMUM 48 HR. PRIOR WRITTEN NOTICE FOR THE START OF CONSTRUCTION WORK. THIS NOTIFICATION SHALL INCLUDE THE SCOPE OF WORK, WORKING HOURS, ANTICIPATED START AND COMPLETION DATES, CONTRACTOR NAME & ADDRESS, AND DELDOT CONTACT NUMBERS. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF WORK REQUIRING NOTICE, UNTIL PROPER NOTICE IS PROVIDED. ACCESS TO ALL BUSINESSES AND RESIDENCES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THIS CONTRACT. ANY TEMPORARY CLOSURE OF A DRIVEWAY FOR TIE-IN PURPOSES SHALL BE COORDINATED WITH THE ENGINEER AND/OR PROPERTY OWNER IN ADVANCE OF THE CLOSURE.

4. THE CONTRACTOR SHALL SUBMIT THE REQUIRED COPIES OF A DETAILED PROGRESS SCHEDULE (PSC) AS OUTLINED IN STANDARD SPECIFICATION 108.04 PRIOR TO OR AT THE PRECONSTRUCTION MEETING. DETAILS SHALL INCLUDE A DESCRIPTION OF EACH WORK ACTIVITY, THE PLANNED DAYS OF WORK, MULTIPLE CREWS OR SHIFTS, AND SCHEDULED WORKING HOURS. DURING THE CONTRACT, THE CONTRACT SHALL SUBMIT TWO-WEEK (OR AS REQUIRED) "LOOK AHEAD" SCHEDULES TO THE AREA ENGINEER/ MANAGER NO LATER THAN NOON OF EACH THURSDAY. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

GENERAL CONTRACT PLAN NOTES

MAINTENANCE OF TRAFFIC

5. THE CONTRACTOR SHALL BE REQUIRED TO SHOW PROOF THAT HE HAS SUFFICIENT APPROVED STRIPING MATERIALS ON HAND TO ENSURE STRIPING IS COMPLETED PRIOR TO FULL OPENING ROADWAY TO TRAFFIC.

6. AT THE END OF EACH DAY'S OPERATION AND BEFORE TRAFFIC IS RETURNED TO UNRESTRICTED ROADWAY USE, TEMPORARY STRIPING SHALL BE UTILIZED AT LOCATIONS THAT REQUIRE PERMANENT STRIPING. TEMPORARY PAVEMENT STRIPING MUST MATCH PERMANENT PAVEMENT STRIPING IN ALL REGARDS. TEMPORARY PAVEMENT MARKINGS SHALL BE PAID AT THE APPLICABLE CONTRACT UNIT PRICE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE TEMPORARY MARKINGS IN GOOD CONDITION SUCH THAT THE PAVEMENT IS PROPERLY DELINEATED AT ALL TIMES. ANY REFRESHING OF THE TEMPORARY MARKINGS WILL BE AT THE CONTRACTOR'S EXPENSE.

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7. ALL WORK SHALL BE PERFORMED IN A MANNER THAT WILL REASONABLY PROVIDE THE LEAST PRACTICABLE OBSTRUCTION TO ALL ROAD USERS, INCLUDING VEHICULAR, PEDESTRIAN AND BICYCLE TRAFFIC, AND SHALL CONFORM TO THE REQUIREMENTS OF THE 2011 DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT FOR BIDS.

8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND ALONG PEDESTRIAN FACILITIES AT ALL TIMES DURING CONSTRUCTION. EARTH, STONE AND GRAVEL SURFACES ARE NOT ACCEPTABLE FOR PROVIDING PEDESTRIAN ACCESS. WHERE PEDESTRIAN ROUTES ARE CLOSED OR BLOCKED, ALTERNATE PEDESTRIAN ACCESS SHALL BE PROVIDED USING TA-28 AND/OR TA-29 OF THE 2011 DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR TO THE SATISFACTION OF THE ENGINEER. PEDESTRIAN DETOUR ROUTES OR ALTERNATE PEDESTRIAN FACILITIES SHALL CONSIST OF ADA COMPLIANT FACILITIES TO THE LEVEL OF WHICH EXISTS ON THE PEDESTRIAN ROUTE. THE COST FOR ANY PROVISIONS SHALL BE INCIDENTAL TO ITEM 763XXX - MAINTENANCE OF TRAFFIC.

PEDESTRIAN MAINTENANCE OF TRAFFIC: THIS WORK SHALL CONSIST OF PROVIDING AND MAINTAINING AN ACCESSIBLE PEDESTRIAN ROUTE THROUGHOUT THE PROJECT'S LIMITS IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT OF 1990 (ADA) TITLE II, PARAGRAPH 35.130.
THE CONTRACTOR SHALL BE REQUIRED TO REVIEW EACH CURB RAMP LOCATION AND SUBMIT THE APPROPRIATE MAINTENANCE OF TRAFFIC DETAIL AND DEVICES TO THE ENGINEER FOR EACH LOCATION AT LEAST 2 WEEKS BEFORE CONSTRUCTION FOR

GENERAL CONTRACT PLAN NOTES

REVIEW, COMMENT, AND APPROVAL.

THE FOLLOWING CONSIDERATIONS SHALL BE TAKEN INTO ACCOUNT WHEN ADDRESSING ACCESSIBLE PEDESTRIAN MAINTENANCE OF TRAFFIC:

- ALL PEDESTRIANS, INCLUDING PERSONS WITH DISABILITIES, SHALL BE PROVIDED WITH A REASONABLY SAFE, CONVENIENT AND ACCESSIBLE PATH THAT REPLICATES AS MUCH AS PRACTICABLE THE EXISTING PEDESTRIAN FACILITIES.
- MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES.
- PROVIDE PEDESTRIAN ACCESS THROUGH OR AROUND THE WORK ZONE. IF A DETOUR IS CHOSEN THE CONTRACTOR MUST SUBMIT THE DETOUR ROUTE TO THE ENGINEER FOR REVIEW AND APPROVAL. THE DETOUR ROUTE MUST MEET OR EXCEED THE CURRENT CONDITIONS.
- WORK SHOULD BE PHASED SO THAT ALL AREAS OF AN INTERSECTION/SIDEWALK PATH ARE NOT UNDER CONSTRUCTION AT THE SAME TIME UNLESS A CLEAR PATH IS PROVIDED AND IDENTIFIED.
- TRAFFIC CONTROL DEVICES AND OTHER CONSTRUCTION MATERIALS AND FEATURES SHALL NOT INTRUDE INTO THE USABLE WIDTH OF THE SIDEWALK, TEMPORARY PATHWAY OR OTHER PEDESTRIAN FACILITY.
- SIGNS AND OTHER DEVICES MOUNTED LOWER THAN 7 FT ABOVE THE TEMPORARY PEDESTRIAN PATHWAY SHALL NOT PROJECT MORE THAN 4 IN. INTO ACCESSIBLE PEDESTRIAN ROUTE.

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A SMOOTH, CONTINUOUS HARD SURFACE SHALL BE PROVIDED THROUGHOUT THE ENTIRE LENGTH AND WIDTH OF THE PEDESTRIAN ROUTE THROUGHOUT CONSTRUCTION. THERE SHALL BE NO CURBS OR VERTICAL ELEVATION CHANGES GREATER THAN ¼ IN. IN GRADE OR TERRAIN THAT COULD CAUSE TRIPPING OR BE A BARRIER TO WHEELCHAIR USE.

9. AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR SHALL BE REQUIRED FOR ALL LOCATIONS SPECIFIED IN THE CONTRACT PLANS. A COPY OF THE CERTIFICATION CARD FOR THE ATSSA TRAFFIC CONTROL SUPERVISOR SHALL BE SUBMITTED AT THE PRECONSTRUCTION MEETING. THE PAPER CERTIFICATE IS NOT ACCEPTABLE.

GENERAL CONTRACT PLAN NOTES

PAVEMENT MARKINGS

10. AT THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS (INCLUDING BUT NOT LIMITED TO EXISTING STRIPING LENGTHS, LANE AND SHOULDER WIDTHS, TURN LANE LENGTHS, LOCATIONS OF STOP BARS, TURN ARROWS, CROSSWALKS AND RAILROAD CROSSINGS) THAT DEPICT THE EXISTING PAVEMENT MARKINGS FOR EACH PROJECT LOCATION. THESE DRAWINGS WILL BE REVIEWED BY THE DEPARTMENT'S TRAFFIC SECTION TO DETERMINE IF ANY CHANGES TO THE FINAL PAVEMENT MARKINGS ARE REQUIRED. FINAL PAVEMENT MARKINGS SHALL CONFORM TO ALL EXISTING PATTERNS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WHITE EDGE LINES SHALL WRAP AROUND THE RADIUS OF ALL SIDE STREETS AND MAJOR COMMERCIAL ENTRANCES TO A TANGENT POINT. YELLOW CENTERLINES SHALL BE CONTINUOUS AROUND MEDIAN ISLANDS. ALL DOUBLE YELLOW CENTERLINES SHALL BE PLACED IN A 5-6-5 CONFIGURATION (2 EACH, **5"** YELLOW STRIPES WITH A 6" GAP BETWEEN).
CONTRACT.

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11. ANY ERRONEOUS MARKING WILL NOT BE PAID FOR AND SHALL BE CORRECTED IMMEDIATELY AT THE CONTRACTORS EXPENSE. ERRONEOUS MARKINGS OR SHADOWS THAT EXCEED ONE (1) INCH IN WIDTH SHALL BE REMOVED BY EITHER SAND OR WATER BLASTING AS DIRECTED BY THE ENGINEER. NO OTHER REMOVAL METHODS WILL BE ALLOWED. A FLAT BLACK PAINT OR DRIVEWAY SEALER SHALL BE APPLIED IN THE AREA OF THE REMOVED MARKING TO MASK THE REPAIR. ANY DAMAGE TO THE PAVEMENT CAUSED BY REMOVAL OF ERRONEOUS MARKINGS SHALL BE REPAIRED / REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.

12. STOP LINES "BARS" SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 3B.16 OF THE 2011 DELAWARE MUTCD.

13. ALL CROSSWALKS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 3B.18 OF THE 2011 DELAWARE MUTCD.

TRAFFIC SIGNAL NOTES

14. TRAFFIC DETECTION LOOPS SHALL BE PLACED IN THE FINAL WEARING SURFACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

GENERAL CONTRACT PLAN NOTES

15. TRAFFIC DETECTION LOOPS THAT ARE CURRENTLY 5'x7' SHALL BE REPLACED WITH LOOPS THAT ARE 6'x6' AT THE SAME LOCATION. STOP BAR DETECTION LOOPS SHALL BE THE SAME SIZE AS CURRENTLY EXISTING, AND SHOULD BE PLACED STARTING TWO FEET BEHIND THE STOP BAR, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF SEPARATE SIGNAL PLANS HAVE BEEN DEVELOPED, THE PLANS SUPERSEDE THIS NOTE.

PROJECT

16. UNLESS SPECIFIED, OVERLAY WIDTHS SHALL MATCH EXISTING WIDTHS.

17. THE COST OF CLIPPING BACK THE EDGES OF THE ROADWAY, SHOULDERS, AND THE FIRST 3' OF UNPAVED DRIVEWAY ENTRANCES, PICKING UP AND DISPOSING OF WASTE AND EXCESS MATERIAL, AND CLEANING THE EXISTING PAVEMENT PRIOR TO OVERLAY SHALL BE INCIDENTAL TO SECTION 401( ). PREPARING UNPAVED DRIVEWAY ENTRANCES BEYOND THE FIRST 3' SHALL BE PAID UNDER THE APPROPRIATE CONTRACT ITEMS: 202000 AND/OR 30200X.

18. BUTT JOINTS SHALL BE PLACED AT ALL INTERSECTING HOT MIX ROADS AND ANY OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. BUTT JOINTS AT DRAINAGE STRUCTURES NOT TO BE RESURFACED SHALL BE AS PER THE INCLUDED PLAN DETAIL OR LOCATION NOTES. BUTT JOINTS CUT PRIOR TO THE DAY OF THE PAVEMENT OVERLAY SHALL BE RAMPED WITH HOT MIX TRM. IN MILLING AREAS, THERE WILL BE NO SEPARATE PAYMENT FOR BUTT JOINTS. AFTER PAVEMENT MILLING, ALL TRANSVERSE VERTICAL DIFFERENCES, RAISED EDGES OF MANHOLES, CATCH BASINS, WATER VALVE BOXES, ETC...SHALL BE RAMPED WITH HOT-MIX TRM AT A 20:1 OR FLATTER SLOPE PRIOR TO OPENING THE ROADWAY TO TRAFFIC. PAVEMENT MILLINGS WILL NOT BE ALLOWED FOR USE AS RAMPING MATERIAL.

19. TAPER MILLING IS INTENDED FOR MILLING IN THE AREA OF FIXED STRUCTURES (I.E. CURBS GUARDRAIL, ETC.) THE MILLED DEPTH AT THE STRUCTURE SHALL BE THE DEPTH OF THE PROPOSED OVERLAY AND 0" AT A DISTANCE OF +/- 6½' FROM THE STRUCTURE. THE COMPUTED DEPTH FOR PAYMENT PURPOSES IS THE AVERAGE OF THE TWO DEPTHS.

20. ALL MILLED MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE STATED.

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GENERAL CONTRACT PLAN NOTES

21. EXCAVATION UP TO 1' IN FRONT OF CURB WILL BE INCIDENTAL TO ITEM 701XXX. HOT MIX PLACED IN FRONT OF CURB WILL BE PAID UNDER ITEM 401XXX. USE OF CONCRETE AS FILL IN FRONT OF CURB WILL NO LONGER BE ACCEPTED UNLESS DIRECTED BY THE ENGINEER. AT EACH LOCATION, BACKFILLING SHALL BE PERFORMED IMMEDIATELY UPON REMOVAL OF FORMS FOR CURB OR SIDEWALK. TOPSOIL, SEEDING, SEALING OF VALLEY GUTTERS, REMOVING OF FORMS, AND PARGING OF CATCH BASINS, SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS OF COMPLETION OF THE ITEM OF WORK. ITEM 732XXX, TOPSOIL, SHALL BE USED AS BACKFILL MATERIAL BEHIND CURB AND AROUND SIDEWALK OR/AS DIRECTED BY THE ENGINEER. TOPSOIL SHALL BE SCREENED/SIFTED SO AS NO MATERIAL GREATER THAN .5" IS PRESENT IN MATERIAL USED FOR BACKFILL. EXCAVATED MATERIAL, NOT NEEDED ON THE PROJECT, SHALL BE REMOVED FROM THE CONTRACT AT THE CONTRACTORS EXPENSE. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

22. ALL ADJUSTMENTS SHALL BE MADE NO MORE THAN SEVEN (7) CALENDAR DAYS PRIOR TO THE PLACEMENT OF THE FINAL COURSE OF HOT MIX UNLESS OTHERWISE APPROVED BY THE ENGINEER. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

23. ALL PAVING, INCLUDING TURN LANES, SHOULDERS AND INTERSECTIONS, IS TO BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS FROM THE TIME THE AREA WAS MILLED. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

24. THE CONTRACTOR SHALL TAKE CARE IN REMOVING PAVEMENT AROUND UTILITIES, BUTT JOINTS, CURBS, ETC. SO THAT EXISTING PAVEMENT BEYOND THE SPECIFIED DEPTHS IS NOT DAMAGED. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS MAY RESULT IN PLACING LEVELING COURSES AT THE CONTRACTOR'S EXPENSE. THE REMOVAL AND CLEAN UP OF THE HOT MIX RESIDUE WEDGE REMAINING AFTER MILLING OPERATIONS SHALL BE INCIDENTAL TO THE MILLING ITEM. THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INCIDENTAL TO THE APPLICABLE MILLING AND/OR RECLAMATION ITEMS.

25. ALL PORTLAND CEMENT CONCRETE MUST BE RECEIVED FROM AN APPROVED PRODUCTION PLANT UNLESS OTHERWISE APPROVED BY THE ENGINEER. ONLY CALIBRATED VOLUMETRIC CONCRETE TRUCKS WILL BE PERMITTED TO PROVIDE ON-SITE MIXTURES. THIS PERTAINS TO BOTH WORK OCCURRING DURING NORMAL WORKING HOURS AND NIGHTTIME RESTRICTED WORK.

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GENERAL CONTRACT PLAN NOTES

PRODUCTION PLANT UNLESS OTHERWISE APPROVED BY THE ENGINEER. ONLY CALIBRATED VOLUMETRIC CONCRETE TRUCKS WILL BE PERMITTED TO PROVIDE ON-SITE MIXTURES. THIS PERTAINS TO BOTH WORK OCCURRING DURING NORMAL WORKING HOURS AND NIGHTTIME RESTRICTED WORK.

26. DRAINAGE INLETS, WHICH ARE 4' GREATER IN DEPTH AND ARE SLATED FOR REPAIR WILL HAVE STEPS INSTALLED IN ACCORDANCE WITH SECTION 708.07 OF THE STANDARD SPECIFICATIONS. PAYMENT SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 710001.

27. THE PORTLAND CEMENT CONCRETE USED WITHIN ITEM 701002 - ADJUST AND REPAIR EXISTING MAN HOLES AND ITEM 750000 - ADJUST WATER VALVE BOX SHALL CONFORM TO THE REQUIREMENTS OF CLASS A CONCRETE AS STATED WITHIN SECTION 503.02 OF THE DEPARTMENT'S STANDARD SPECIFICATIONS.

28. WHEN JACKHAMMERING OR THE USE OF A BREAKER IS NECESSARY ON CONTRACTS THAT OCCUR DURING THE NIGHTTIME HOURS THE JACKHAMMERING AND BREAKING MUST CEASE AT 12:00AM.

29. CURB RAMP AND/OR SIDEWALK CONSTRUCTION (NOT INCLUDING MEDIAN ISLANDS) SHALL BE COMPLETED DURING A SINGLE OPERATION. THE RAMP/SIDEWALK SHALL BE REMOVED AND PLACED BACK THE SAME NIGHT/DAY AND OPEN TO PEDESTRIAN TRAFFIC THE FOLLOWING DAY. THE USE OF A MONOLITHIC POUR SHALL BE PERMITTED WITH A BOND BREAKER TO BE PLACED AT THE BACK OF THE CURB AND EDGE OF SIDEWALK. IF THE CURB RAMP/SIDEWALK CANNOT BE COMPLETED IN A SINGLE OPERATION THE EXCAVATED AREA MUST BE BACKFILLED TO GRADE WITH COMPACTED MILLING MATERIAL ONLY. THIS MATERIAL WILL BE INCIDENTAL TO THE CURB RAMP ITEM. THE DRESSING UP OF THE AREA BEING PAID AS A CURB RAMP WITH TOPSOIL AND SEED WILL BE INCIDENTAL TO THE CURB RAMP ITEMS.

30. ANY MILLING MATERIAL REQUIRED TO MAKE AREAS ADA COMPLIANT IF NOT COMPLETED IN THE SAME SHIFT AT CURB, SIDEWALK, CURB RAMPS, ISLANDS, ETC. WILL BE INCIDENTAL TO THE PAY ITEM ASSOCIATED WITH THE WORK. MILLING MATERIAL IS THE ONLY APPROVED MATERIAL FOR THIS PRACTICE.

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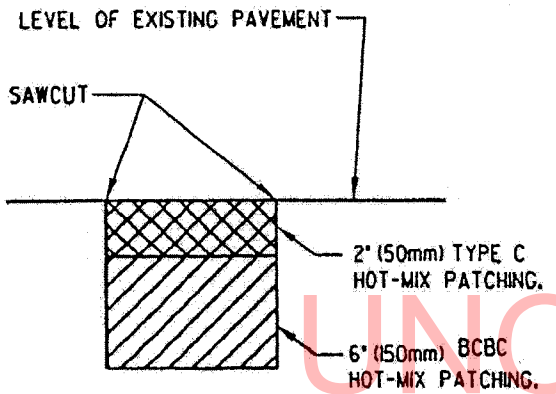
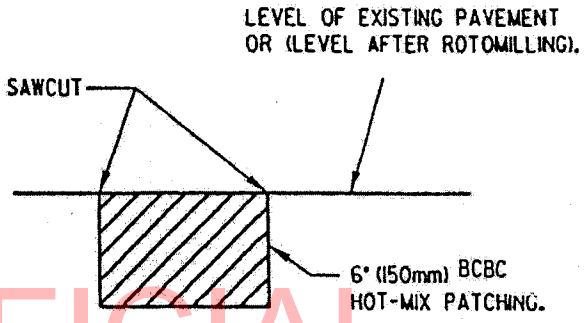
DETAILS SHEET



HOT MIX PATCH - NO OVERLAY

N.T.S.

•UNDERCUT EXCAVATION PATCHING TO BE UTILIZED BELOW 8" (200mm) WHEN DIRECTED BY THE ENGINEER.



HOT MIX PATCH - OVERLAY SECTION

N.T.S.

•UNDERCUT EXCAVATION PATCHING TO BE UTILIZED BELOW 6" (150mm) WHEN DIRECTED BY THE ENGINEER.

NOTE: PREFERRED EXCAVATION METHOD TO BE BY ROTOMILLING. SAWCUTTING EDGES SHALL BE AS DIRECTED BY ENGINEER AND DEPENDENT ON THE CONDITION LEFT BY THE ROTOMILLING OPERATION.
BACKFILL FOR UNDERCUT EXCAVATION SHALL BE SUPERPAVE BCBC PATCH (SEPERATE LIFT).
MINIMUM WIDTH OF PATCHING 6' (1.8M).
THIS DETAIL SHALL BE USED FOR ALL HOT MIX PATCHES UNLESS OTHERWISE SHOWN ON THE PLANS.
ALL HOT MIX TO BE PLACED USING A PAVER.

WHEN PCC PATCHING IS REQUIRED ON A COMPOSITE PAVEMENT(HOT-MIX OVER CONCRETE), THE CONTRACTOR MAY ELECT TO ELIMINATE ANY GRADE DIFFERENCE BETWEEN THE TOP OF THE CONCRETE PATCH AND THE TOP OF THE EXISTING HOT-MIX PAVEMENT BY EITHER PLACING HOT-MIX TRM MATERIAL(PAYMENT UNDER ITEM 402000) OR PLACING CONCRETE FLUSH WITH EXISTING HOT-MIX PAVEMENT(ADDITIONAL CONCRETE PAID AS ITEM 503503). IF CONCRETE IS PLACED FLUSH WITH EXISTING HOT-MIX, THE ROTOMILLING OF THE CONCRETE WILL BE PAID FOR AS ROTOMILLING HOT-MIX.

P.C.C. PATCHING NOTES

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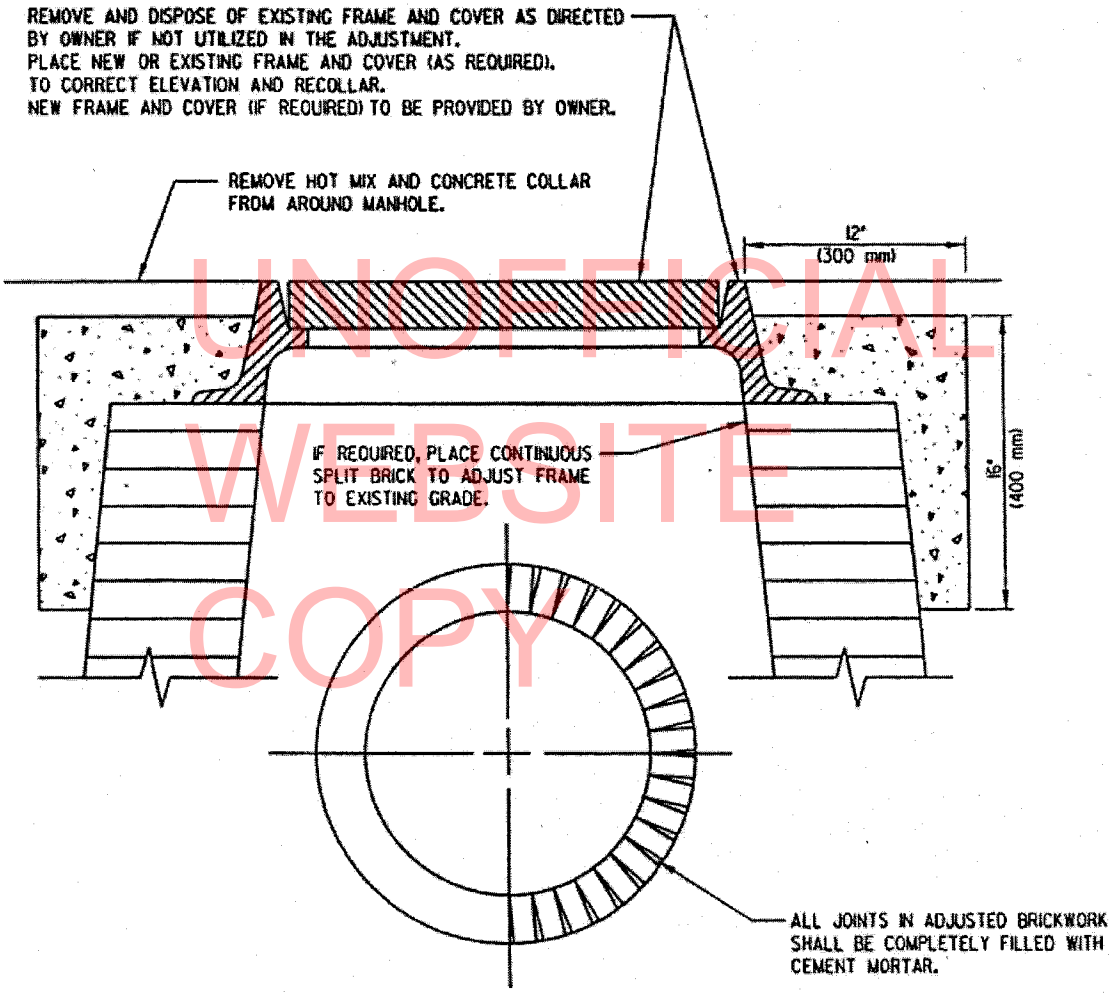
DETAILS SHEET



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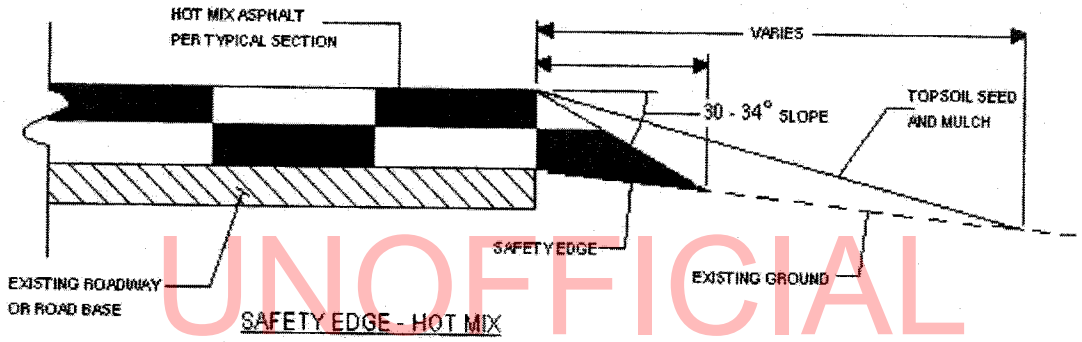
ADJUSTING AND REPAIRING MANHOLE

N.T.S.

NOTE: MANHOLES IN CONCRETE ROADWAYS SHALL BE SAWCUT FULL DEPTH TO THE SPECIFIED DIMENSION PRIOR TO ANY ADJUSTMENT BEING MADE. THE SAWCUTTING SHALL BE INCIDENTAL TO ITEM 710002.

DETAILS SHEET



SAFETY EDGE - HOT MIX

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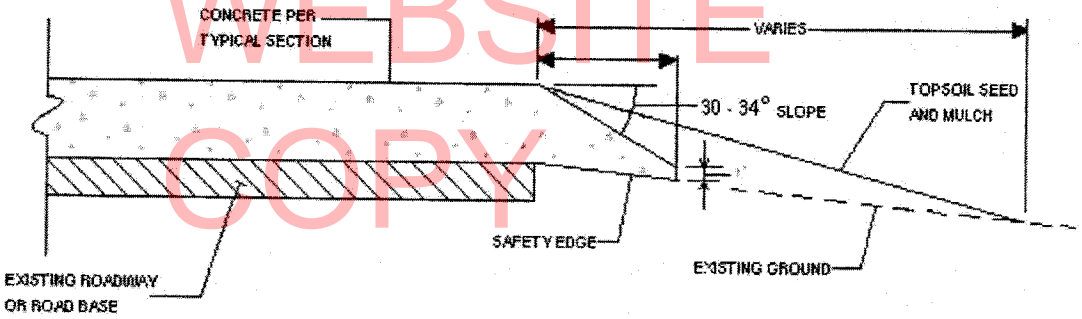

SAFETY EDGE - CONCRETE

GENERAL NOTES

1. THE SAEFTY EDGE WILL BE CONSTRUCTED AS PART OF THE ROADWAY PAVEMENT. A SHOULDER WEDGE DEVICE WILL BE ADDED TO THE SCREED OF THE PAVEING MACHINE.

2. SHORT SECTIONS OF HANDWORK WILL BE ALLOWED WHEN NECESSARY FOR TRANSITION AND TURNOUTS.

3. SITE PREPARATION AND ADDITIONAL EARTHWORK REQUIRED TO CONSTRUCT THE SAFETY EDGE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

SAFETY EDGE DETAIL

Project Note

The contractor shall attach a device to the screed of the paver that confines the material at the end gate and extrudes the asphalt material in such a way that results in a compacted wedge shape pavement edge of approximately 30 degrees (not steeper than 35 degrees). Contact shall be maintained between the device and the road shoulder surface. The device shall be manufactured so that it can be easily adjusted to transition at cross roads, driveways and obstructions without stopping the paver. The device's shape shall constrain the asphalt and cause compaction and increasing the density of the extruded profile.

The TransTech Shoulder Wedge Maker or the Advant-Edge shall be used to produce the wedge.

Contact information for these wedge shape compaction devices is the following:

1. TransTech Systems, Inc.
   1594 State Street
   Schenectady, NY 12304
   1-800-724-6306
   www.transtechsys.com

2. Advant-Edge Paving Equipment LLC
   P.O. Box 9163
   Niskayuna, NY 12309-0163
   Ph. 518-280-6090
   Contact: Gary D. Antonelli
   Cell 518-368-5699
   email: garya@nycap.rr.com
   Website: www.advantedgepaving.com

The wedge shall not be installed adjacent to curb or in front of guardrail sections.

The cost of the wedge devise and all other work needed to construct the wedge, including but not limited to preparation of the shoulder surface, additional fill, and compaction, in accordance with this note and the details on the plans shall be incidental to the hot-mix item being placed.

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Safety Edge Detail

LOCATION 1 **19(NEW CASTLE AVE) FROM BRIDGE AT CANAL TO HEALD ST (RD28)**

LENGTH 7743.444 m 25405 L.F. AADT 20340

GENERAL IMPROVEMENTS

PARTIAL DEPTH SPALL REPAIR (HOT-MIX), 3/4" ULTRA THIN ENTIRE ROADWAY, TE WORK IN SOUTHBRIDGE AREA

COMMENTS:

Please see attached sheets for comments

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MATERIAL ESTIMATE FOR LOCATION 1

202000	EXCAVATION AND EMBANKMENT	160.00 C.Y.
209006	BORROW, TYPE F	20.00 C.Y.
211000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.00 L.S.
252001	INLET SEDIMENT CONTROL, CURB INLET	14.00 EACH
302005	GRADED AGGREGATE BASE COURSE, TYPE B	80.00 TON
302007	GRADED AGGREGATE BASE COURSE, TYPE B	110.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	25.00 C.Y.
401577	PAVER-LAID ULTRATHIN HOT MIX	200,000.00 S.Y.
401810	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22	200.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	20.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	100.00 TON
401827	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE)	250.00 TON
406001	WARM-MIX PATCHING	1,800.00 SY-IN
612002	REINFORCED CONCRETE PIPE, 15", CLASS III	80.00 L.F.
612503	PVC PIPE, 8"	10.00 L.F.
612505	PVC PIPE, 12"	30.00 L.F.
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1-8	400.00 L.F.
701011	PORTLAND CEMENT CONCRETE CURB, TYPE 2	50.00 L.F.
701012	PORTLAND CEMENT CONCRETE CURB, TYPE 1-4	30.00 L.F.
701014	PORTLAND CEMENT CONCRETE CURB, TYPE 1-6	200.00 L.F.
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 1-8	50.00 L.F.
705001	P.C.C. SIDEWALK, 4"	12,000.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	2,150.00 S.F.
705008	CURB RAMP, TYPE 1	7,125.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	13,000.00 S.F.
705010	CURB RAMP, TYPE 5	150.00 S.F.
705504	BRICK AND/OR BL0CK SIDEWALK	550.00 S.F.

LOCATION 1 **19(NEW CASTLE AVE) FROM BRIDGE AT CANAL TO HEALD ST (RD28)**

LENGTH 7743.444 m 25405 L.F. AADT 20340

GENERAL IMPROVEMENTS

PARTIAL DEPTH SPALL REPAIR (HOT-MIX), 3/4" ULTRA THIN ENTIRE ROADWAY, TE WORK IN SOUTHBRIDGE AREA

COMMENTS:

Please see attached sheets for comments

UNOFFICIAL WEBSITE COPY

MATERIAL ESTIMATE FOR LOCATION 1

708051	DRAINAGE INLET, 34" X 24"	7.00 EACH
708060	REPLACE DRAINAGE INLET GRATE(S)	5.00 EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	5.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	7.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	115.00 EACH
710501	CONVERTING EXISTING CATCH BASIN TO MANHOLE	1.00 EACH
716000	CONVERTING EXISTING DRAINAGE INLET TO JUNCTION BOX	2.00 EACH
727502	ADJUSTING EXISTING MONUMENT BOX	15.00 EACH
732002	TOPSOIL, 6" DEPTH	160.00 S.Y.
734013	PERMANENT GRASS SEEDING, DRY GROUND	400.00 S.Y.
743003	ARROWPANELS, TYPE C	70.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	20.00 EA-DY
743007	** TRAFFIC OFFICERS	1,120.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	70.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	6,000.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	600.00 HOUR
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	18.00 EACH
744520	CONDUIT JUNCTION WELL, TYPE 1, PRECAST CONCRETE	35.00 EACH
744523	CONDUIT JUNCTION WELL, TYPE 4, PRECAST CONCRETE	3.00 EACH
744530	CONCUIT JUNCTION WELL, TYPE 11, PRECAST CONCRETE/ POLYMER LID-FRAME	16.00 EACH
744531	CONDUIT JUNCTION WELL, TYPE 14, PRECAST CONCRETE/ POLYMER LID-FRAME	2.00 EACH
744544	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	15.00 EACH
745602	FURNISH & INSTALL UP TO 4" SCHEDULE 80 HDPE CONDUIT (BORE)	650.00 L.F.
745604	FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	660.00 L.F.
745606	FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (TRENCH)	450.00 L.F.
745607	FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (BORE)	275.00 L.F.
746512	CABLES, 1/#6 AWG	1,150.00 L.F.

LOCATION 1 **19(NEW CASTLE AVE) FROM BRIDGE AT CANAL TO HEALD ST (RD28)**

LENGTH 7743.444 m 25405 L.F. AADT 20340

GENERAL IMPROVEMENTS

PARTIAL DEPTH SPALL REPAIR (HOT-MIX), 3/4" ULTRA THIN ENTIRE ROADWAY, TE WORK IN SOUTHBRIDGE AREA

COMMENTS:

Please see attached sheets for comments

UNOFFICIAL WEBSITE COPY

MATERIAL ESTIMATE FOR LOCATION 1

746659	DECORATIVE LIGHT STANDARD AND FIXTURE, SINGLE	5.00 EACH
746847	POLE BASE, TYPE 3	2.00 EACH
746850	POLE BASE, TYPE 4	45.00 EACH
746852	POLE BASE, TYPE 6	5.00 EACH
746924	FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	11,710.00 L.F.
746926	FURNISH & INSTALL ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240	1.00 EACH
747515	CABINET BASE, TYPE M	1.00 EACH
747516	CABINET BASE, TYPE P	2.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	23,400.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	136,000.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	23,400.00 S.F.
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	370.00 L.F.
748502	RAISED/RECESSED PAVEMENT MARKER	700.00 EACH
748530	REMOVAL OF PAVEMENT STRIPING	1,688.00 S.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	125,000.00 L.F.
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	5,755.00 L.F.
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	230.00 EACH
749688	INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH	98.00 EACH
749690	INSTALLATION OR REMOVAL OF TRAFFIC SIGNS ON MULTIPLE SIGN POSTS	84.00 S.F.
750000	ADJUST WATER VALVE BOXES	29.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	460.00 S.Y.
762001	SAW CUTTING, HOT MIX	700.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	400.00 L.F.
763501	CONSTRUCTION ENGINEERING	1.00 L.S.
763502	MAINTENANCE OF RAILROAD TRAFFIC	1.00 L.S.
763566	BENCH	1.00 EACH
763587	MAN-HOUR OF MISCELLANEOUS WORK	320.00 HOUR

LOCATION 1 **19(NEW CASTLE AVE) FROM BRIDGE AT CANAL TO HEALD ST (RD28)**

LENGTH 7743.444 m 25405 L.F. AADT 20340

GENERAL IMPROVEMENTS

PARTIAL DEPTH SPALL REPAIR (HOT-MIX), 3/4" ULTRA THIN ENTIRE ROADWAY, TE WORK IN SOUTHBRIDGE AREA

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 1

763598	TRASH RECEPTACLE	1.00 EACH
763621	CONSTRUCTION ENGINEERING, REHABILITATION	90.00 HOUR

** DENOTES FIXED PRICE ITEM

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LOCATION 1 19(NEW CASTLE AVE) FROM BRIDGE AT CANAL TO HEALD ST (RD28)

COMMENTS:

Restricted Work Hours: 8:00 AM to 4:00 PM

Recommended Traffic Control: Case TA-33 - roadway
Case TA-5A - shoulders

Curb Ramp Locations:

All intersections including the following signalized intersections
Anchor Mill Rd. - 2 - signalized
Moores Lane - 5 - signalized
Buttonwood Ave. - 3 - signalized
Landers Lane - 2 - signalized
Cherry Lane - 6 - signalized
West Ave. - 5 - signalized
Hillview Ave. - 5 - signalized
Lambsons Lane - 5 - signalized
Rogers Rd. - 2 - signalized
Terminal Ave. - 5 - signalized

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Manhole Adjustments:

30 - DelDOT storm
48 - NCCDSS
29 - City of Wilmington sanitary sewer
8 - Verizon
20 - City of Wilmington water valves
9 - Delmarva Gas by others

General Notes:

Item 763587 Man-Hour of Miscellaneous Work

Scope of work includes:

Remove (chip out) failed partial depth concrete patches (spalls)
Re-saw cut if necessary, clean spall area with compressed air
Tack and backfill partial depth spall with bituminous Type C HM (64-22)

Hourly price based on the use of the following manpower/equipment to complete the spall repairs:

1 Foreman
7 Laborers
2 Truck Drivers
2 Pick-ups
2 Small Dump Trucks
2 Compressors w/chipping hammer and air-wand
1 Plate Tamp
1 Concrete Saw

Payment for hot-mix backfill will be made under item 401827. Payment for MOT set-ups will be incidental to item 763643. All work to be completed immediately prior to the placement of the proposed ultrathin hot-mix (NovaChip) overlay.

LOCATION 1 19(NEW CASTLE AVE) FROM BRIDGE AT CANAL TO HEALD ST (RD28)

401577 Type "B" mix design required

401577 PG 76-22 is required

THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS SHALL BE INCIDENTAL TO THE OVERLAY INCLUDING PLACING BACK COMPACTED HOT-MIX MATERIAL TO FILL THE EXPOSED VOID.

Norfolk Southern railroad at this location

Schools, churches, bus yards, I-295 interchange at this location

UNOFFICIAL WEBSITE COPY

LOCATION 2 **28(HEALD ST) FROM DUPONT PARWAY - ROUTE 13 (RD33) TO CHRISTIANA AVE - ROUTE 9A (RD19)**

LENGTH 2194.56 m 7200 L.F. AADT 10226

GENERAL IMPROVEMENTS

2" PROFILE MILL, HOT-MIX PATCHING IN HOT-MIX SECTION, PCC PATCHING IN PCC SECTION, 2" WMA TYPE C 76-22 IN HOT-MIX SECTION

COMMENTS:

Please see attached sheets for comments

UNOFFICIAL WEBSITE COPY

MATERIAL ESTIMATE FOR LOCATION 2

302005	GRADED AGGREGATE BASE COURSE, TYPE B	20.00 TON
401696	ENTRANCE, DRIVEWAY AND INTERSECTINGSTREET PAVING SURCHARGE	40.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	250.00 TON
401824	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, WEDGE	800.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE)	4,200.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	100.00 TON
406001	WARM-MIX PATCHING	4,600.00 SY-IN
503001	PATCHING P.C.C. PAVEMENT, 6' TO 15', TYPE A	110.00 S.Y.
503002	PATCHING P.C.C. PAVEMENT GREATER THAN 15' TO 100', TYPE B	310.00 S.Y.
503006	DOWEL BARS	240.00 EACH
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	1,000.00 L.F.
503517	P.C.C. PATCHING, PARTIAL DEPTH	20.00 SY-IN
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1-8	100.00 L.F.
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	100.00 L.F.
705001	P.C.C. SIDEWALK, 4"	600.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	130.00 S.F.
705008	CURB RAMP, TYPE 1	80.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	2,100.00 S.F.
705524	DECTABLE WARNINGS RETROFIT	40.00 S.F.
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	7.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	8.00 EACH
720050	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	1,000.00 L.F.
720585	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	4.00 EACH
727502	ADJUSTING EXISTING MONUMENT BOX	12.00 EACH
743003	ARROWPANELS, TYPE C	80.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	10.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	5.00 EA-DY

LOCATION 2 **28(HEALD ST) FROM DUPONT PARWAY - ROUTE 13 (RD33) TO CHRISTIANA AVE - ROUTE 9A (RD19)**

LENGTH 2194.56 m 7200 L.F. AADT 10226

GENERAL IMPROVEMENTS

2" PROFILE MILL, HOT-MIX PATCHING IN HOT-MIX SECTION, PCC PATCHING IN PCC SECTION, 2" WMA TYPE C 76-22 IN HOT-MIX SECTION

COMMENTS:

Please see attached sheets for comments

UNOFFICIAL WEBSITE COPY

MATERIAL ESTIMATE FOR LOCATION 2

743007	** TRAFFIC OFFICERS	320.00	HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	40.00	EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	1,420.00	HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	142.00	HOUR
744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	4.00	EACH
744530	CONCUIT JUNCTION WELL, TYPE 11, PRECAST CONCRETE/ POLYMER LID-FRAME	9.00	EACH
745602	FURNISH & INSTALL UP TO 4" SCHEDULE 80 HDPE CONDUIT (BORE)	550.00	L.F.
745604	FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	190.00	L.F.
746850	POLE BASE, TYPE 4	13.00	EACH
746924	FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	850.00	L.F.
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	2,400.00	S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	50,200.00	L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	4,800.00	S.F.
748529	RETROREFLECTIVE PREFORMED PATTERNEDMARKINGS, SYMBOL/LEGEND	100.00	S.F.
748530	REMOVAL OF PAVEMENT STRIPING	30.00	S.F.
748537	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 8"	200.00	L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	25,100.00	L.F.
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	235.00	L.F.
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	1.00	EACH
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	5.00	EACH
749688	INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH	1.00	EACH
749689	INSTALLATION OF 4" DIAMETER HOLE, GREATER THAN 6" DEPTH	1.00	EACH
750000	ADJUST WATER VALVE BOXES	7.00	EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	100.00	S.Y.
760507	PROFILE MILLING, HOT-MIX	76,400.00	SY-IN
762001	SAW CUTTING, HOT MIX	600.00	L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	1,000.00	L.F.

LOCATION 2 **28(HEALD ST) FROM DUPONT PARWAY - ROUTE 13 (RD33) TO CHRISTIANA AVE - ROUTE 9A (RD19)**

LENGTH 2194.56 m 7200 L.F. AADT 10226

GENERAL IMPROVEMENTS

2" PROFILE MILL, HOT-MIX PATCHING IN HOT-MIX SECTION, PCC PATCHING IN PCC SECTION, 2" WMA TYPE C 76-22 IN HOT-MIX SECTION

COMMENTS:

Please see attached sheets for comments

MATERIAL ESTIMATE FOR LOCATION 2

763621	CONSTRUCTION ENGINEERING, REHABILITATION	1.00 HOUR

** DENOTES FIXED PRICE ITEM

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LOCATION 2 **28(HEALD ST) FROM DUPONT PARWAY - ROUTE 13 (RD33) TO CHRISTIANA AVE - ROUTE 9A (RD19)**

COMMENTS:

Restricted Work Hours: 8:00 AM to 4:00 PM
7:30 PM to 5:30 AM - PCC patching & wedging

Recommended Traffic Control: Case TA-33 - roadway - out of town
Case TA-10 - roadway - in town
Case TA-3 - shoulders

Curb Ramp Locations:

Peach St. - 2
Apple St. - 2
B St. - 4 - signalized
C St. - 4 - signalized
Pearl St. - 2
D St. - 4 - signalized

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Entrance and Driveway Locations:

Peach St. 15'
Apple St. 10'
Lobdell St. east & west 2 @ 20' each
A St. east 10'
A St. west 15'
B St. east 40'
C St. east & west 2 @ 10' each
Pearl St. east 15'
D St. west 15'

Manhole Adjustments:

15 - City of Wilmington sanitary sewer
19 - City of Wilmington water valves
7 - Verizon
1 - Delmarva Electric by others
9 - Delmarva Gas by others

General Notes:

Wedge item is for raising roadway at low area that floods
PCC patching and wedging operations should occur at night
Guardrail items for area at wedging

CONTRACT QUANTITIES SUMMARY SHEET

202000	EXCAVATION AND EMBANKMENT	160.00 C.Y.
209006	BORROW, TYPE F	20.00 C.Y.
211000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1.00 L.S.
252001	INLET SEDIMENT CONTROL, CURB INLET	14.00 EACH
302005	GRADED AGGREGATE BASE COURSE, TYPE B	100.00 TON
302007	GRADED AGGREGATE BASE COURSE, TYPE B	110.00 C.Y.
302008	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	25.00 C.Y.
401577	PAVER-LAID ULTRATHIN HOT MIX	200,000.00 S.Y.
401696	ENTRANCE, DRIVEWAY AND INTERSECTINGSTREET PAVING SURCHARGE	40.00 TON
401810	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22	200.00 TON
401822	WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	20.00 TON
401823	WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22, PATCHING	350.00 TON
401824	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, WEDGE	800.00 TON
401827	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON- CARBONATE STONE)	250.00 TON
401833	WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22, (NON- CARBONATE STONE)	4,200.00 TON
402000	HOT-MIX BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS CONCRETE (TRM)	100.00 TON
406001	WARM-MIX PATCHING	6,400.00 SY-IN
503001	PATCHING P.C.C. PAVEMENT, 6' TO 15', TYPE A	110.00 S.Y.
503002	PATCHING P.C.C. PAVEMENT GREATER THAN 15' TO 100', TYPE B	310.00 S.Y.
503006	DOWEL BARS	240.00 EACH
503501	CRACK AND JOINT SEALING LESS THAN 3/4" WIDE	1,000.00 L.F.
503517	P.C.C. PATCHING, PARTIAL DEPTH	20.00 SY-IN
612002	REINFORCED CONCRETE PIPE, 15", CLASS III	80.00 L.F.
612503	PVC PIPE, 8"	10.00 L.F.
612505	PVC PIPE, 12"	30.00 L.F.
701010	PORTLAND CEMENT CONCRETE CURB, TYPE 1-8	500.00 L.F.
701011	PORTLAND CEMENT CONCRETE CURB, TYPE 2	50.00 L.F.
701012	PORTLAND CEMENT CONCRETE CURB, TYPE 1-4	30.00 L.F.

UNOFFICIAL WEBSITE COPY

CONTRACT QUANTITIES SUMMARY SHEET

701014	PORTLAND CEMENT CONCRETE CURB, TYPE 1-6	200.00 L.F.
701020	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 1-8	50.00 L.F.
701022	INTEGRAL PORTLAND CEMENT CONCRETE CURB & GUTTER, TYPE 3-8	100.00 L.F.
705001	P.C.C. SIDEWALK, 4"	12,600.00 S.F.
705007	SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	2,280.00 S.F.
705008	CURB RAMP, TYPE 1	7,205.00 S.F.
705009	CURB RAMP, TYPE 2, 3, AND/OR 4	15,100.00 S.F.
705010	CURB RAMP, TYPE 5	150.00 S.F.
705504	BRICK AND/OR BLOCK SIDEWALK	550.00 S.F.
705524	DECTABLE WARNINGS RETROFIT	40.00 S.F.
708051	DRAINAGE INLET, 34" X 24"	7.00 EACH
708060	REPLACE DRAINAGE INLET GRATE(S)	5.00 EACH
708061	REPLACE DRAINAGE INLET FRAME(S)	5.00 EACH
710001	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	14.00 EACH
710002	ADJUSTING AND REPAIRING EXISTING MANHOLE	123.00 EACH
710501	CONVERTING EXISTING CATCH BASIN TO MANHOLE	1.00 EACH
716000	CONVERTING EXISTING DRAINAGE INLET TO JUNCTION BOX	2.00 EACH
720050	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	1,000.00 L.F.
720585	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	4.00 EACH
727502	ADJUSTING EXISTING MONUMENT BOX	27.00 EACH
732002	TOPSOIL, 6" DEPTH	160.00 S.Y.
734013	PERMANENT GRASS SEEDING, DRY GROUND	400.00 S.Y.
743003	ARROWPANELS, TYPE C	150.00 EA-DY
743004	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	30.00 EA-DY
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	5.00 EA-DY
743007	** TRAFFIC OFFICERS	1,440.00 HOUR
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	110.00 EA-DY
743050	** FLAGGER, NEW CASTLE COUNTY, STATE	7,420.00 HOUR
743062	** FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	742.00 HOUR

UNOFFICIAL WEBSITE COPY

CONTRACT QUANTITIES SUMMARY SHEET

744505	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	22.00 EACH
744520	CONDUIT JUNCTION WELL, TYPE 1, PRECAST CONCRETE	35.00 EACH
744523	CONDUIT JUNCTION WELL, TYPE 4, PRECAST CONCRETE	3.00 EACH
744530	CONCUIT JUNCTION WELL, TYPE 11, PRECAST CONCRETE/ POLYMER LID-FRAME	25.00 EACH
744531	CONDUIT JUNCTION WELL, TYPE 14, PRECAST CONCRETE/ POLYMER LID-FRAME	2.00 EACH
744544	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	15.00 EACH
745602	FURNISH & INSTALL UP TO 4" SCHEDULE 80 HDPE CONDUIT (BORE)	1,200.00 L.F.
745604	FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	850.00 L.F.
745606	FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (TRENCH)	450.00 L.F.
745607	FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (BORE)	275.00 L.F.
746512	CABLES, 1/#6 AWG	1,150.00 L.F.
746659	DECORATIVE LIGHT STANDARD AND FIXTURE, SINGLE	5.00 EACH
746847	POLE BASE, TYPE 3	2.00 EACH
746850	POLE BASE, TYPE 4	58.00 EACH
746852	POLE BASE, TYPE 6	5.00 EACH
746924	FURNISH & INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	12,560.00 L.F.
746926	FURNISH & INSTALL ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240	1.00 EACH
747515	CABINET BASE, TYPE M	1.00 EACH
747516	CABINET BASE, TYPE P	2.00 EACH
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	25,800.00 S.F.
748019	TEMPORARY MARKINGS, PAINT, 4"	186,200.00 L.F.
748026	TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	28,200.00 S.F.
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	370.00 L.F.
748502	RAISED/RECESSED PAVEMENT MARKER	700.00 EACH
748529	RETROREFLECTIVE PREFORMED PATTERNEDMARKINGS, SYMBOL/LEGEND	100.00 S.F.
748530	REMOVAL OF PAVEMENT STRIPING	1,718.00 S.F.
748537	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 8"	200.00 L.F.
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	150,100.00 L.F.

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CONTRACT QUANTITIES SUMMARY SHEET

748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	5,990.00 L.F.
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	1.00 EACH
749687	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	235.00 EACH
749688	INSTALLATION OF 4" DIAMETER HOLE, LESS THAN OR EQUAL TO 6" DEPTH	99.00 EACH
749689	INSTALLATION OF 4" DIAMETER HOLE, GREATER THAN 6" DEPTH	1.00 EACH
749690	INSTALLATION OR REMOVAL OF TRAFFIC SIGNS ON MULTIPLE SIGN POSTS	84.00 S.F.
750000	ADJUST WATER VALVE BOXES	36.00 EACH
758000	REMOVAL OF EXISTING PORTLAND CEMENTCONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	560.00 S.Y.
760507	PROFILE MILLING, HOT-MIX	76,400.00 SY-IN
762001	SAW CUTTING, HOT MIX	1,300.00 L.F.
762002	SAW CUTTING, CONCRETE, FULL DEPTH	1,400.00 L.F.
763000	INITIAL EXPENSE	LUMP SUM
763501	CONSTRUCTION ENGINEERING	1.00 L.S.
763502	MAINTENANCE OF RAILROAD TRAFFIC	1.00 L.S.
763566	BENCH	1.00 EACH
763587	MAN-HOUR OF MISCELLANEOUS WORK	320.00 HOUR
763598	TRASH RECEPTACLE	1.00 EACH
763621	CONSTRUCTION ENGINEERING, REHABILITATION	91.00 HOUR
763643	MAINTENANCE OF TRAFFIC, ALL INCLUSIVE	LUMP SUM

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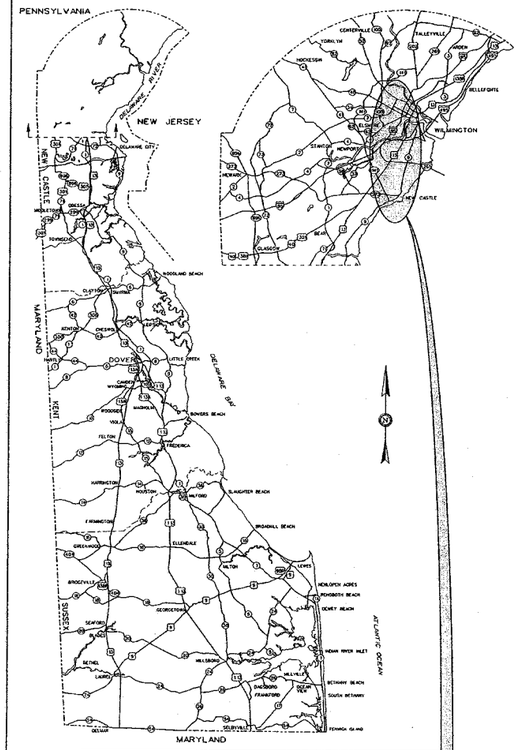
** DENOTES FIXED PRICE ITEM



GENERAL LOCATIONS OF CONTRACT

THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY UNITS

STRIPING PLANS FOR:

PAVEMENT & REHABILITATION
NORTH I, 2012

CONTRACT NUMBER: T201206101
MILES: 5.66
COUNTY: NEW CASTLE

UNOFFICIAL WEBSITE COPY

PROJECT LOCATION 1
NOT TO SCALE

INDEX OF SHEETS

SHEET №	TABLE OF CONTENTS
1	TITLE SHEET
2	PROJECT NOTES AND DETAILS
3	PLAN SHEET INDEX
4-24	PROPOSED SIGNING AND STRIPING PLANS
25	SIGNING SCHEDULE

TOTAL SHEETS: 25

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

PREPARED BY
THE CONSULTING FIRM OF

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS-SURVEYORS
4134 NORTH DUPONT HIGHWAY
DOVER, DE 19901
(302) 734-9188

RECOMMENDED 9/4/13 DATE

FINAL PLANS
SEPTEMBER 2013

RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	APPROVED
DATE	DATE	DATE	DATE	DATE	DATE 9/4/13

SIGNING AND STRIPING GENERAL NOTES

1. ROADWAY GEOMETRY IS BASED OFF AERIAL PHOTOGRAPHY. CONTRACTOR SHALL FOLLOW PROPOSED STRIPING AND PAVEMENT MARKINGS LEGEND. LOCATIONS OF EXISTING STRIPING SHOWN ON AERIAL IS NOT TO BE REPRODUCED.

2. THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS. EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT OR THROUGH WRITTEN APPROVAL BY THE ENGINEER.

   DELDOT - "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" 2011 EDITION AND SUBSEQUENT REVISIONS (M.U.T.C.D.)

   A.A.S.H.T.O.- STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS - 4TH EDITION AND SUBSEQUENT PUBLICATIONS.

3. CONTRACTOR SHALL INSTALL NEW POSTS WHERE ADDITIONAL SIGN HEIGHT IS WARRANTED.

4. CONTRACTOR SHALL MATCH EXISTING STRIPING CENTERLINE(S); REPLACE CENTERLINE STRIPING IN-PLACE OF EXISTING, UNLESS NOTED OTHERWISE. TRAVEL LANE WIDTH DIMENSIONS ARE SHOWN FROM THE STRIPING CENTERLINE(S) TO THE EDGE OF TRAVEL LANE. PLEASE NOTE: SHOULDER WIDTHS VARY THROUGHOUT CORRIDOR.

5. CONTRACTOR SHALL COORDINATE WITH P&R PROJECT MANAGER TO IDENTIFY WHICH RAMPS WILL BE RECONSTRUCTED FOR ADA COMPLIANCY.

   A. IF BOTH EXISTING SIDE STREET RAMPS ARE COMPLIANT, THE CONTRACTOR SHALL INSTALL CROSSWALK AND STOP LINE STRIPING, PER TYPICAL DETAIL.

   B. IF BOTH SIDE STREET RAMPS ARE MADE COMPLIANT, THE CONTRACTOR SHALL INSTALL CROSSWALK AND STOP LINE STRIPING, PER TYPICAL DETAIL.

   C. IF BOTH SIDE STREET RAMPS ARE NOT COMPLIANT, THE CONTRACTOR SHALL ONLY REPLACE EXISTING STOP LINE, AS SHOWN.

6. SIGNAL DETECTION LOOPS HAVE BEEN SHOWN ON THE SIGNING AND STRIPING PLANS FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ACTUAL LOCATIONS FROM SIGNAL PLANS. IF SIGNAL PLANS ARE NOT AVAILABLE, THE CONTRACTOR SHALL COORDINATE WITH THE TRAFFIC CONSTRUCTION INSPECTOR.

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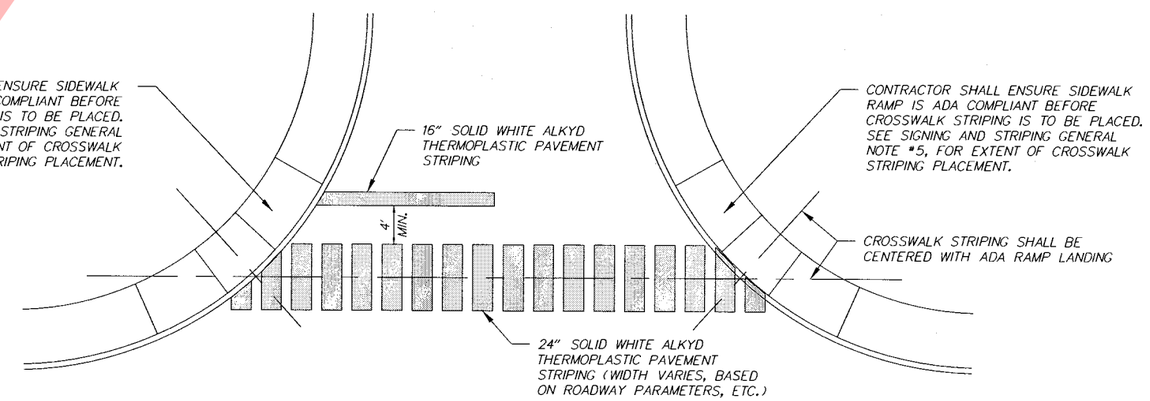
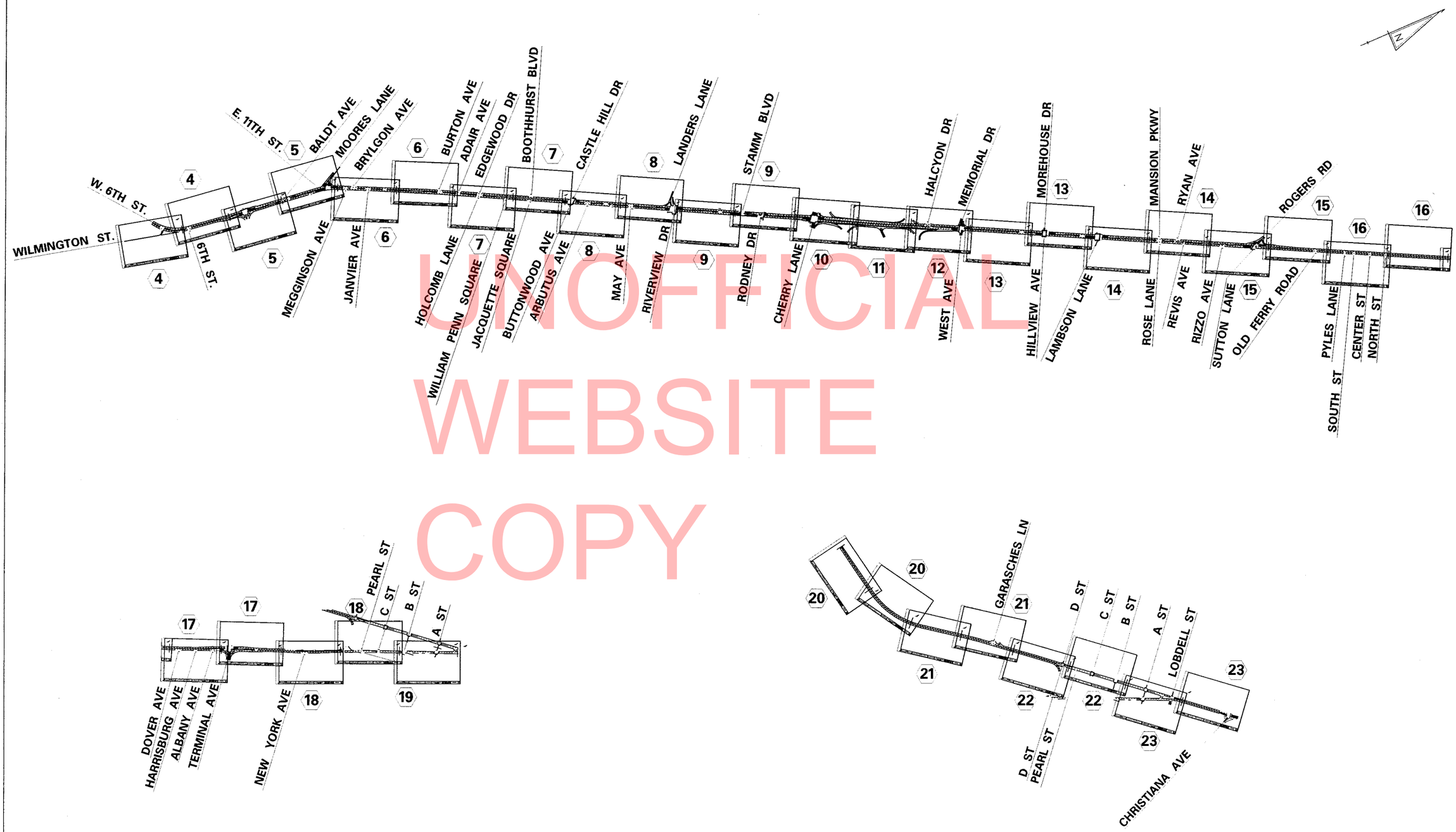


TYPICAL SIDE STREET ADA RAMP AND STRIPING DETAIL

SCALE: N.T.S.

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	PAVEMENT & REHABILITATION NORTH 1, 2012	AGREEMENT NO. T201206101	PERMIT NO. -	PROJECT NOTES AND DETAILS	SHEET NO. 2
				COUNTY NEW CASTLE	DESIGNED BY: MJP		TOTAL SHTS. 24
					CHECKED BY: BAM		



UNOFFICIAL WEBSITE COPY

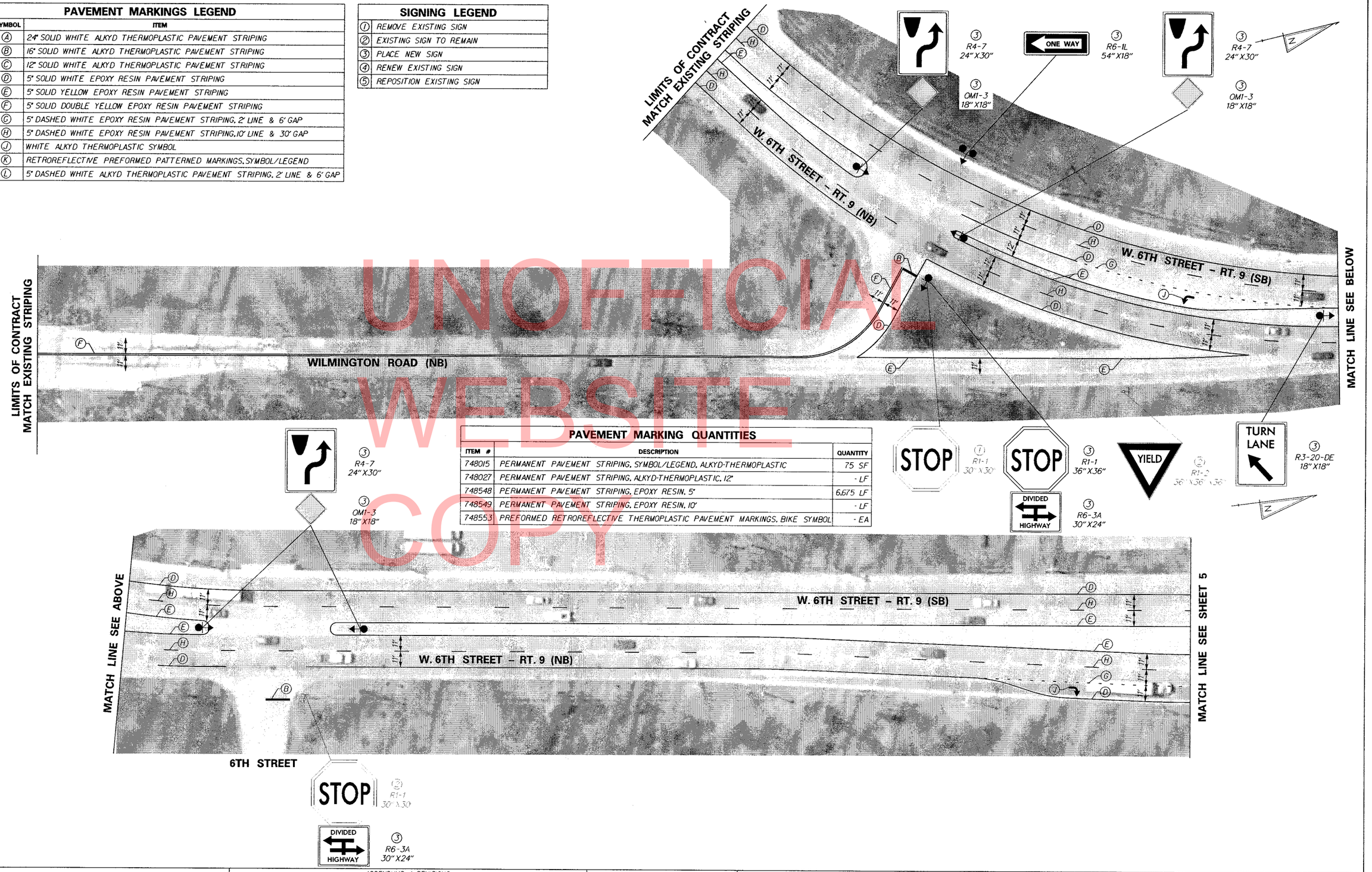
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 700 1400 2100 FEET	PAVEMENT & REHABILITATION NORTH I, 2012	AGREEMENT NO. T201206101	PERMIT NO. –	PLAN SHEET INDEX	SHEET NO. 3
				COUNTY NEW CASTLE	DESIGNED BY: MJP		TOTAL SHTS. 24
					CHECKED BY: BAM		

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
(A)	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
(B)	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
(C)	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
(D)	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
(E)	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
(F)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
(G)	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
(H)	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
(J)	WHITE ALKYD THERMOPLASTIC SYMBOL
(K)	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
(L)	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

SIGNING LEGEND

(1)	REMOVE EXISTING SIGN
(2)	EXISTING SIGN TO REMAIN
(3)	PLACE NEW SIGN
(4)	RENEW EXISTING SIGN
(5)	REPOSITION EXISTING SIGN



PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	75 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	6,675 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

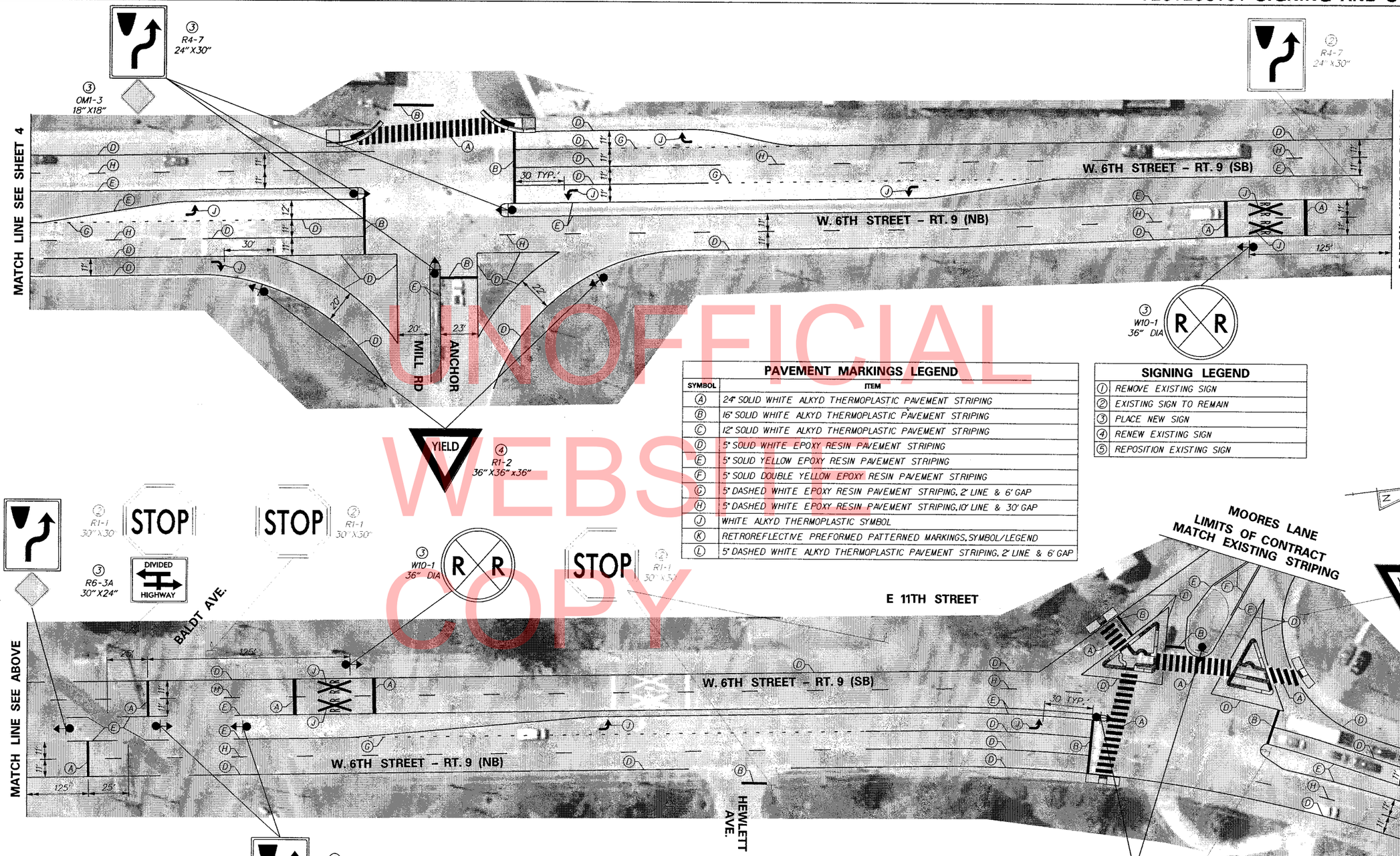
PAVEMENT & REHABILITATION NORTH I, 2012

AGREEMENT NO.	PERMIT NO.	-	
T201206101	DESIGNED BY:	MJP	
COUNTY			
NEW CASTLE	CHECKED BY:	BAM	

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 4
TOTAL SHTS. 24

SDATES SSTRIPES SSTRIPES



UNOFFICIAL WEBSITE COPY

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
A	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
B	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
C	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
D	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
E	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
F	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
G	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
H	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
J	WHITE ALKYD THERMOPLASTIC SYMBOL
K	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
L	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

SIGNING LEGEND

1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	2,090 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	8,925 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

PAVEMENT & REHABILITATION NORTH I, 2012

AGREEMENT NO.	PERMIT NO.	–
T201206101	DESIGNED BY:	MJP
COUNTY	CHECKED BY:	BAM
NEW CASTLE		

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 5 TOTAL SHTS. 24

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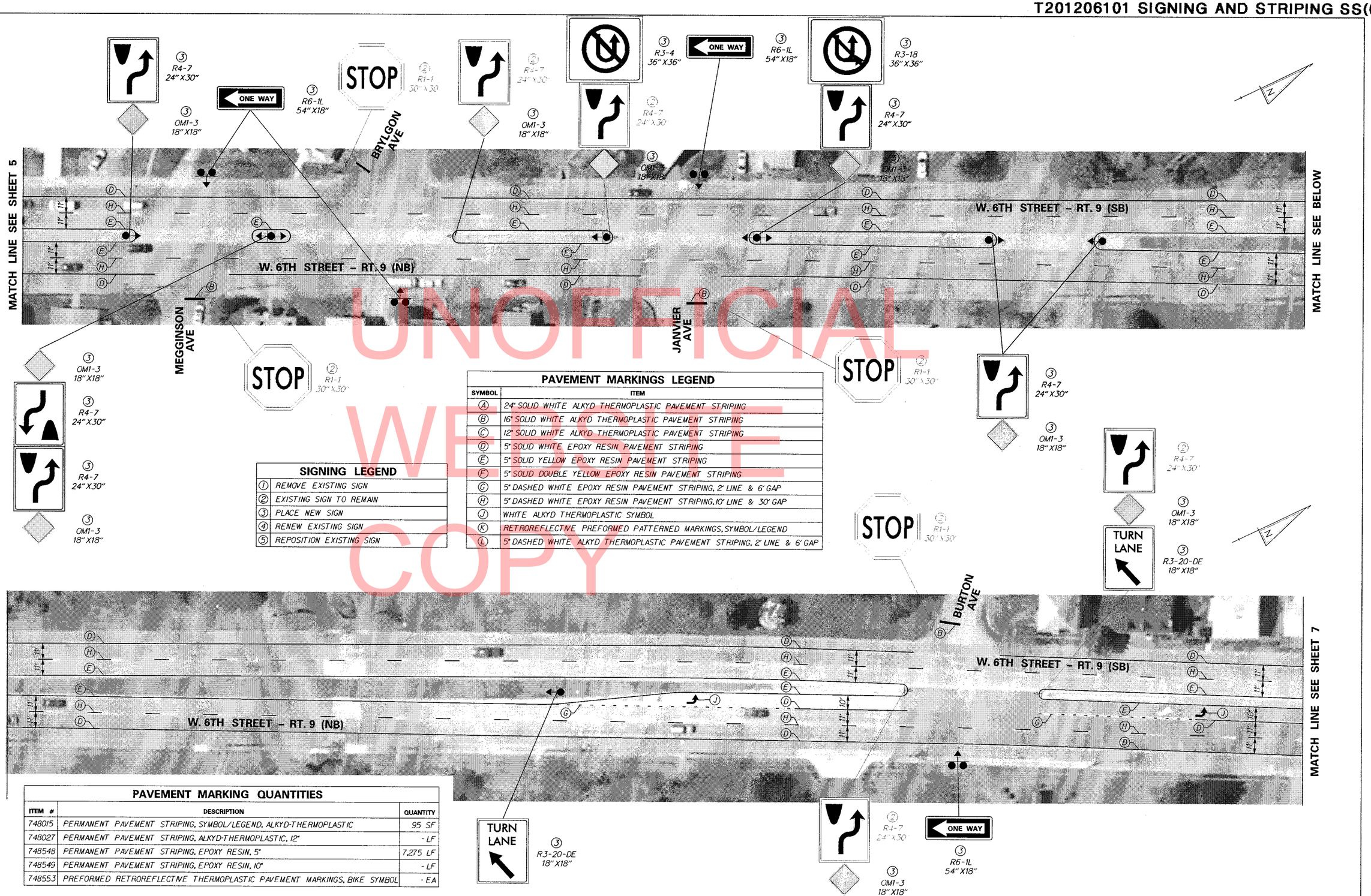


UNOFFICIAL WEBSITE COPY

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
A	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
B	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
C	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
D	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
E	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
F	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
G	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
H	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
J	WHITE ALKYD THERMOPLASTIC SYMBOL
K	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
L	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

SIGNING LEGEND

1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	95 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	7,275 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

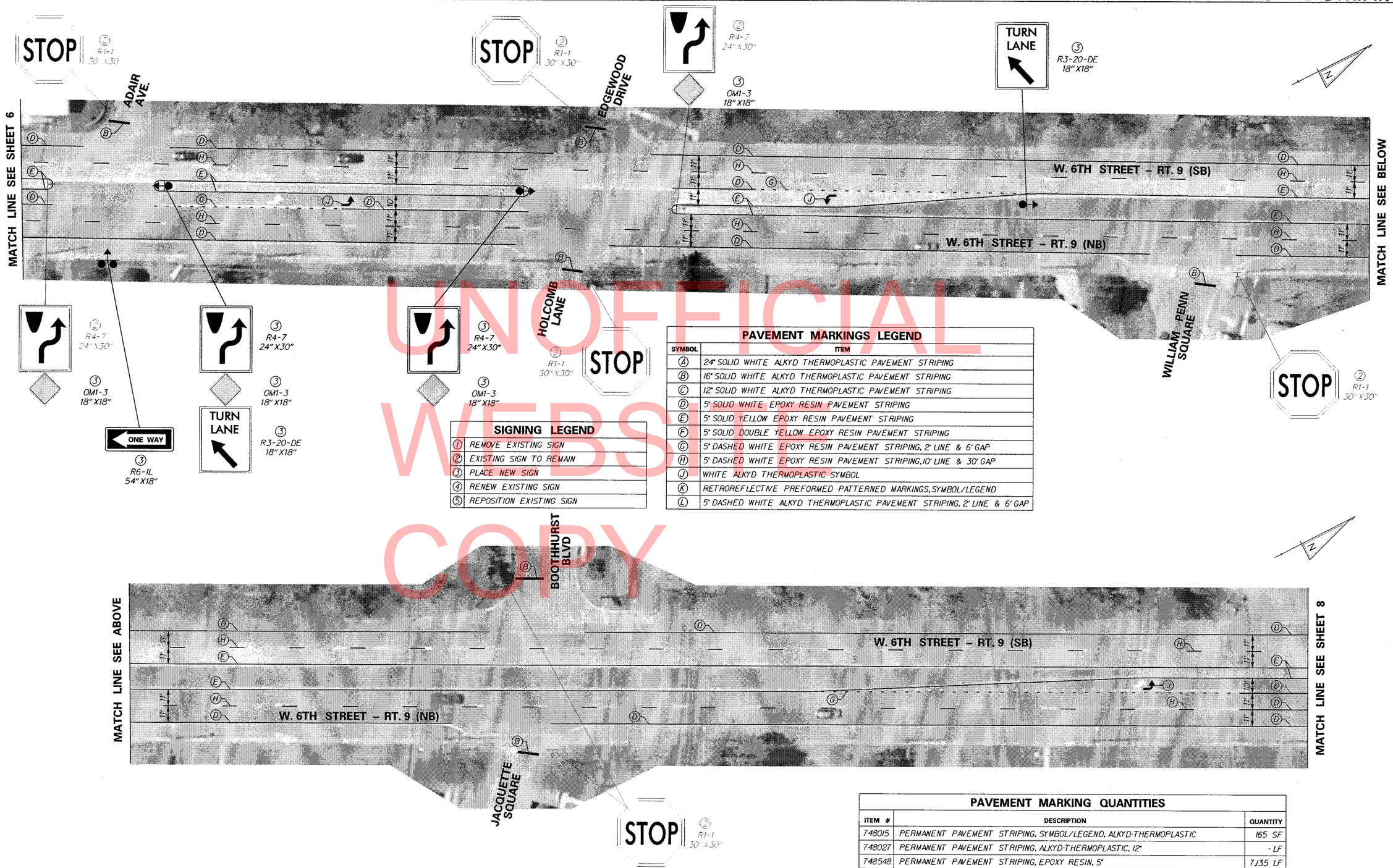
PAVEMENT & REHABILITATION NORTH I, 2012

AGREEMENT NO.	PERMIT NO.	-
T201206101	DESIGNED BY:	MJP
COUNTY	CHECKED BY:	BAM
NEW CASTLE		

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 6

TOTAL SHTS. 24



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SIGNING LEGEND	
1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
A	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
B	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
C	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
D	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
E	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
F	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
G	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
H	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
J	WHITE ALKYD THERMOPLASTIC SYMBOL
K	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
L	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	165 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	7,135 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

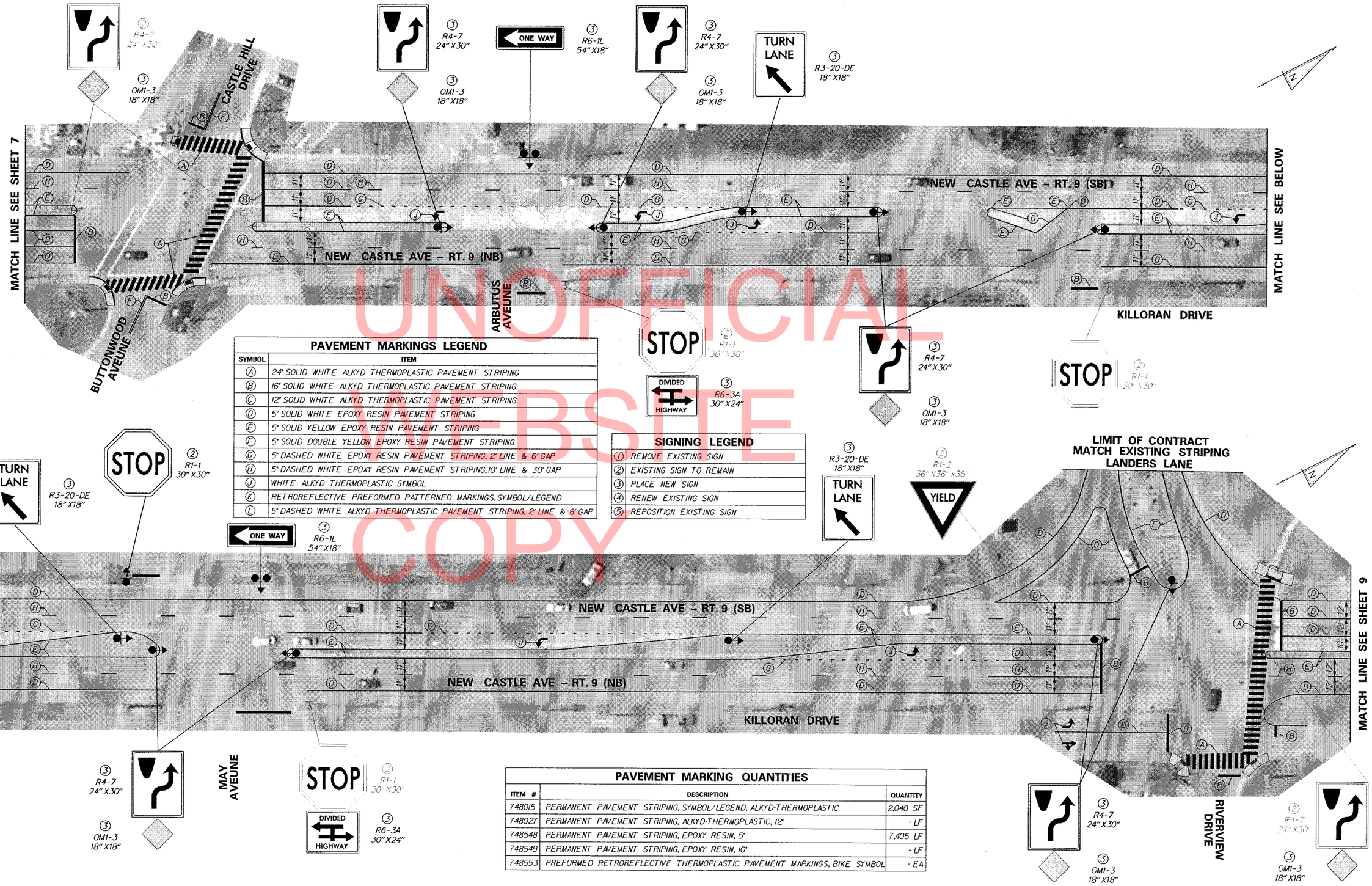
PAVEMENT & REHABILITATION NORTH I, 2012

AGREEMENT NO.	PERMIT NO.	-
T201206101	DESIGNED BY:	MJP
COUNTY	CHECKED BY:	BAM
NEW CASTLE		

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 7

TOTAL SHTS. 24



PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
A	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
B	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
C	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
D	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
E	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
F	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
G	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
H	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
J	WHITE ALKYD THERMOPLASTIC SYMBOL
K	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
L	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

SIGNING LEGEND

1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	2,040 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	7,405 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

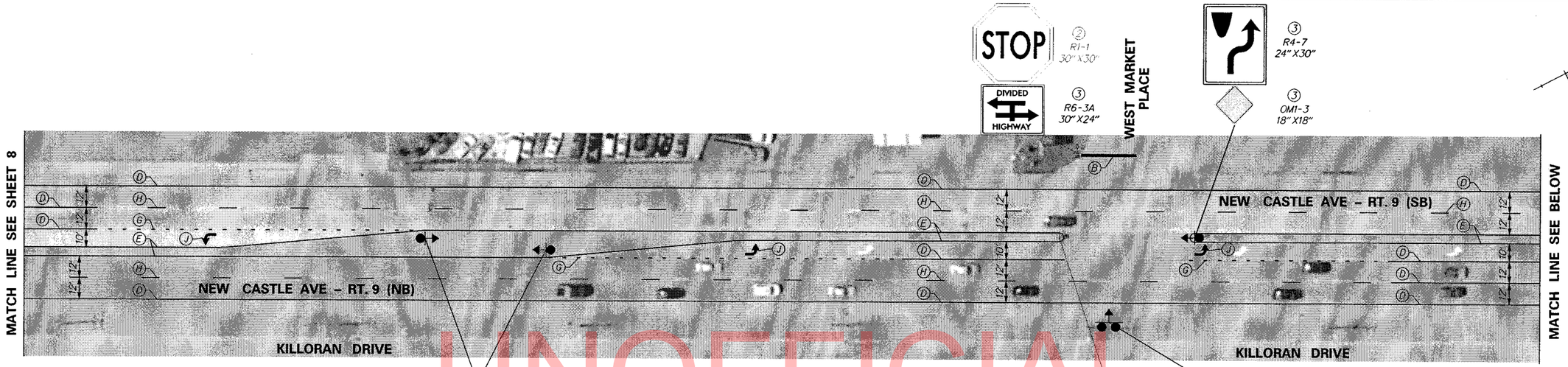
SCALE 0 30 60 90 FEET

PAVEMENT & REHABILITATION NORTH I, 2012

AGREEMENT NO.	T201206101	PERMIT NO.	-
COUNTY	NEW CASTLE	DESIGNED BY:	MJP
		CHECKED BY:	BAM

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 8 TOTAL SHTS. 24



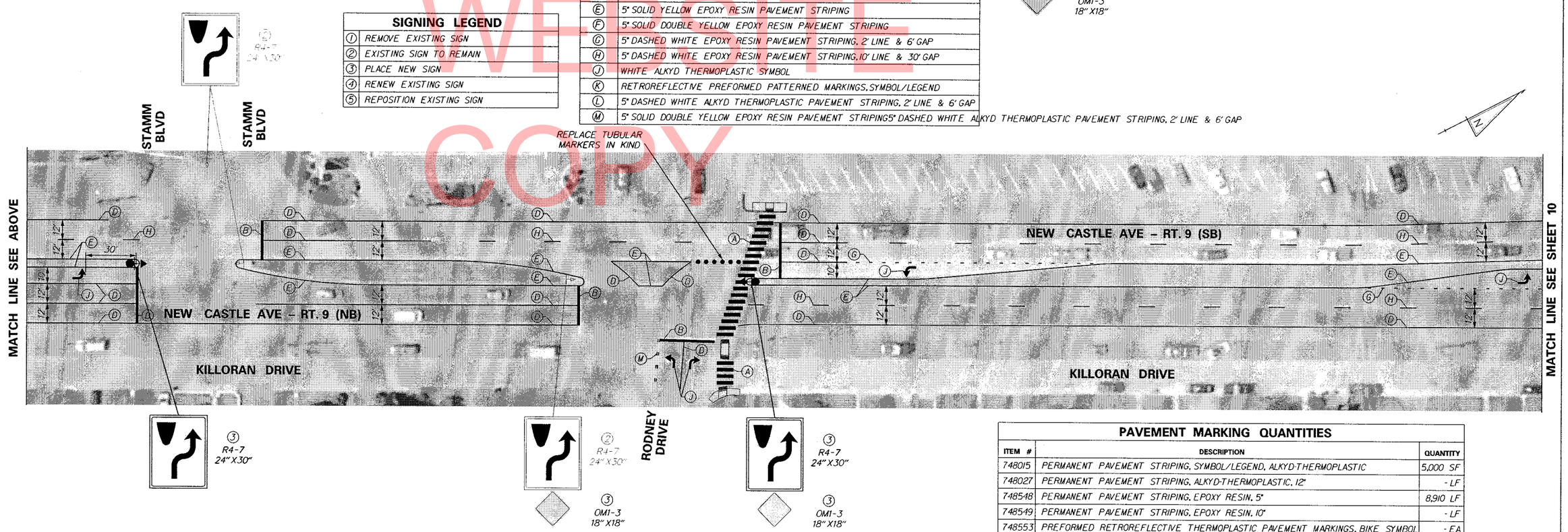
UNOFFICIAL WEBSITE COPY

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
A	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
B	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
C	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
D	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
E	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
F	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
G	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
H	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
J	WHITE ALKYD THERMOPLASTIC SYMBOL
K	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
L	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP
M	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

SIGNING LEGEND

1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN



PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	5,000 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	8,910 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

PAVEMENT & REHABILITATION NORTH I, 2012

AGREEMENT NO.	T201206101	PERMIT NO.	–
COUNTY	NEW CASTLE	DESIGNED BY:	MJP
		CHECKED BY:	BAM

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 9

TOTAL SHTS. 24

DATES
PLOT
SCALE
TIME

UNOFFICIAL WEBSITE COPY

SIGNING LEGEND

1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
A	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
B	15" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
C	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
D	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
E	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
F	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
G	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
H	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
J	WHITE ALKYD THERMOPLASTIC SYMBOL
K	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
L	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP
M	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
N	10" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP

PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	1,795 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	155 LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	6,045 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	1,905 LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA
748565	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 10" TAPE	- LF

DELAWARE
DEPARTMENT OF TRANSPORTATION

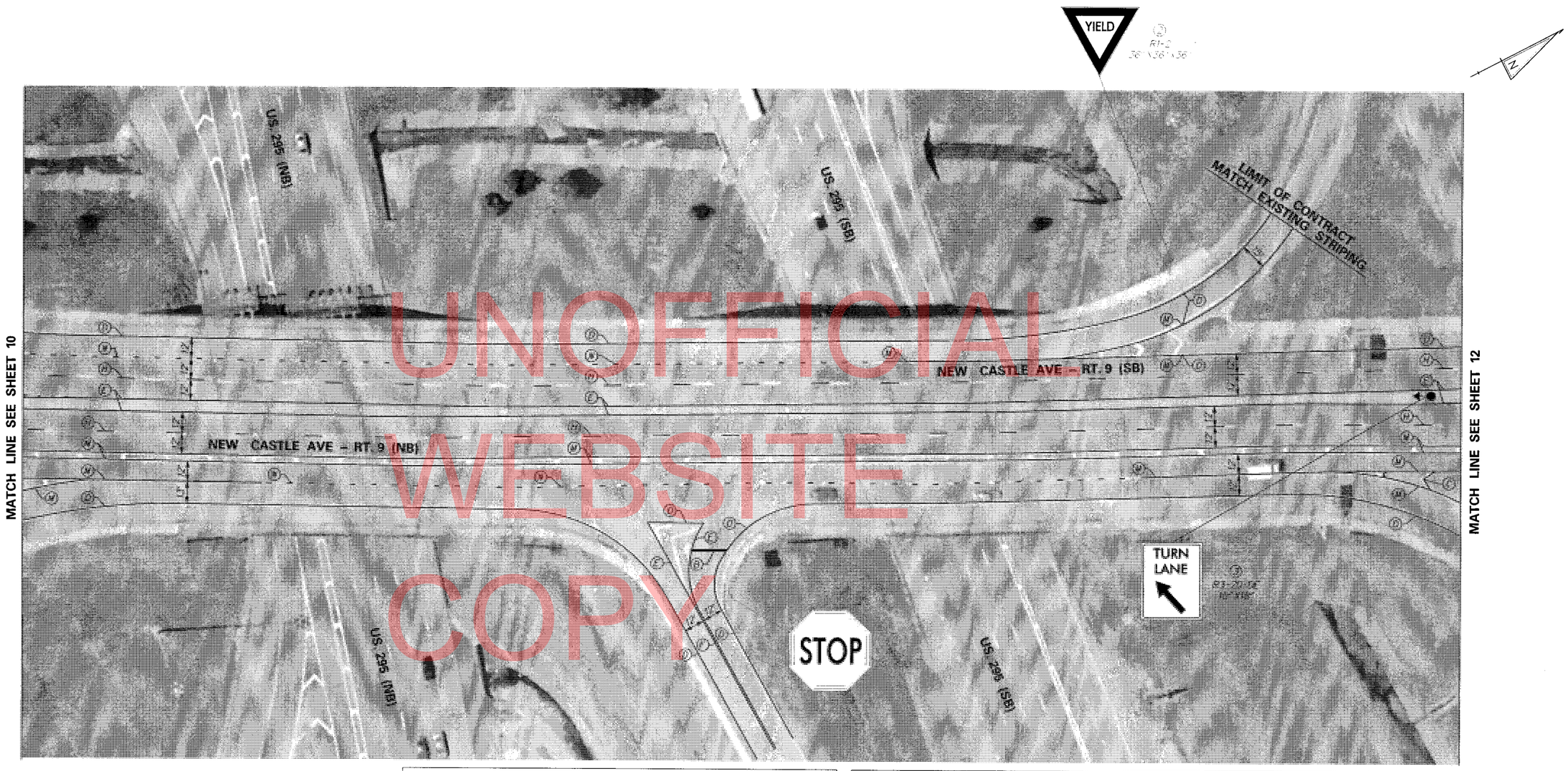
ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

PAVEMENT & REHABILITATION
NORTH I, 2012

AGREEMENT NO.	PERMIT NO.	-	PROPOSED SIGNING AND STRIPING PLAN
T201206101	DESIGNED BY:	MJP	
COUNTY			
NEW CASTLE	CHECKED BY:	BAM	

SHEET NO. 10
TOTAL SHTS. 24



UNOFFICIAL WEBSITE COPY

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
A	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
B	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
C	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
D	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
E	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
F	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
G	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
H	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
J	WHITE ALKYD THERMOPLASTIC SYMBOL
K	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
L	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP
M	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
N	10" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP

PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	30 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	55 LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	4,435 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	2,345 LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA
748565	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 10" TAPE	- LF

SIGNING LEGEND

1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

PAVEMENT & REHABILITATION
NORTH I, 2012

ASSESSMENT NO.	T201206101	PERMIT NO.	-
COUNTY	NEW CASTLE	DESIGNED BY:	MJP
		CHECKED BY:	BAM

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 11
TOTAL SHTS. 24

UNOFFICIAL WEBSITE COPY

PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	985 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	160 LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	5,630 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	1,505 LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
(A)	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
(B)	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
(C)	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
(D)	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
(E)	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
(F)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
(G)	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
(H)	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
(J)	WHITE ALKYD THERMOPLASTIC SYMBOL
(K)	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
(L)	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP
(M)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING

SIGNING LEGEND

(1)	REMOVE EXISTING SIGN
(2)	EXISTING SIGN TO REMAIN
(3)	PLACE NEW SIGN
(4)	RENEW EXISTING SIGN
(5)	REPOSITION EXISTING SIGN

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE: 0 30 60 90 FEET

PAVEMENT & REHABILITATION NORTH I, 2012

AGREEMENT NO.	PERMIT NO.	-
T201206101	DESIGNED BY:	MJP
COUNTY		
NEW CASTLE	CHECKED BY:	BAM

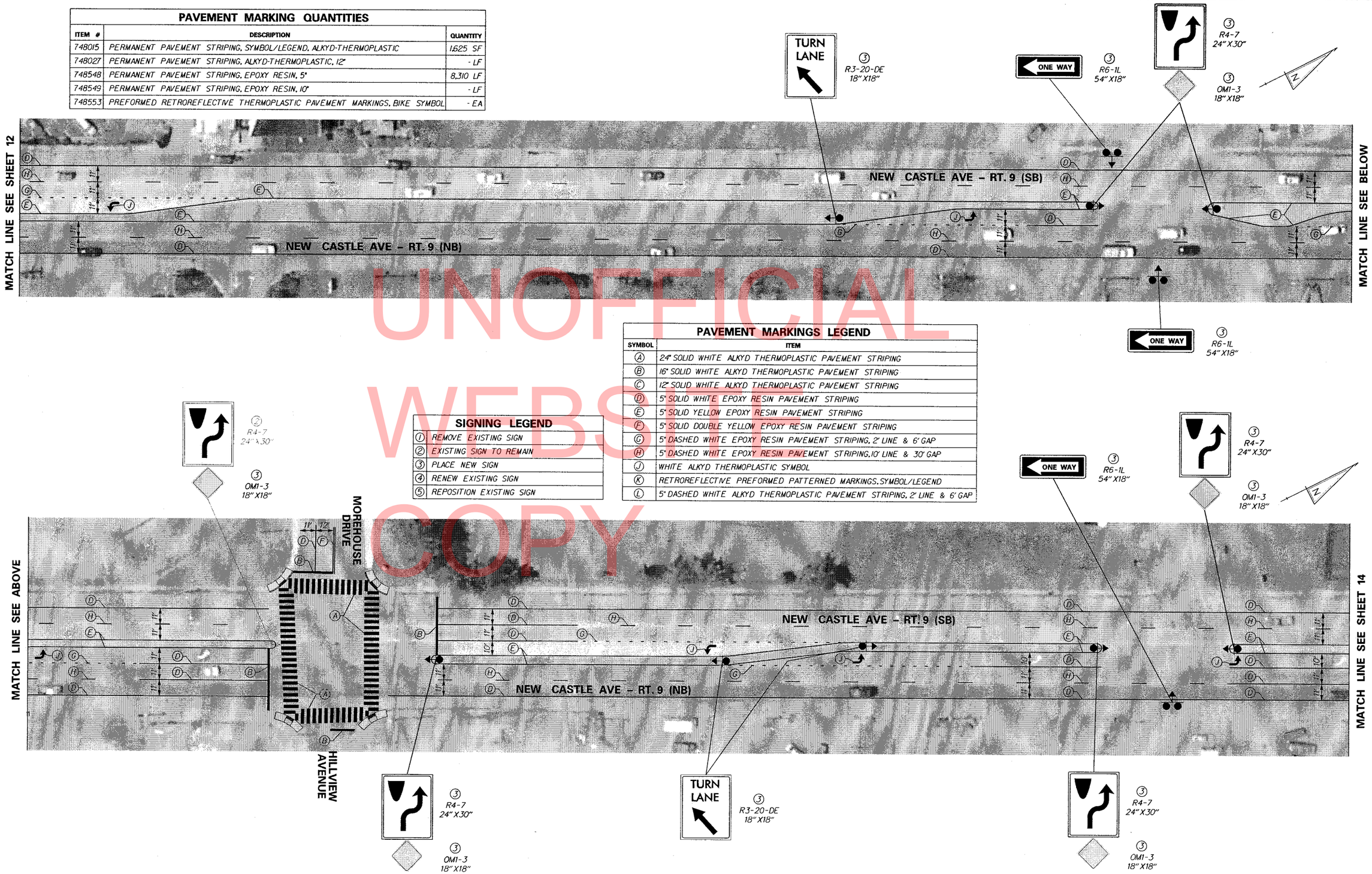
PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 12
TOTAL SHTS. 24

STATE OF DELAWARE

PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	1,625 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	8,310 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA



PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
Ⓐ	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓑ	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓒ	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓓ	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
Ⓔ	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
Ⓕ	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
Ⓖ	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
Ⓗ	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
Ⓙ	WHITE ALKYD THERMOPLASTIC SYMBOL
Ⓚ	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
Ⓛ	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

SIGNING LEGEND

①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

PAVEMENT & REHABILITATION NORTH I, 2012

AGREEMENT NO.	PERMIT NO.	-
T201206101	DESIGNED BY:	MJP
COUNTY	CHECKED BY:	BAM
NEW CASTLE		

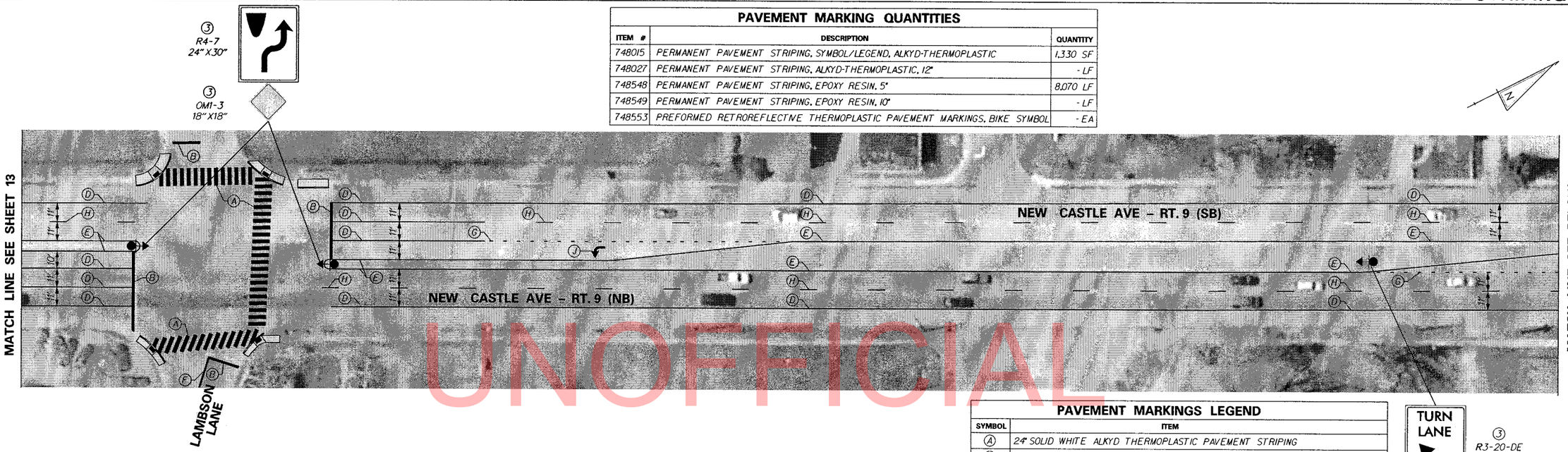
PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 13

TOTAL SHTS. 24

PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	1,330 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	8,070 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA

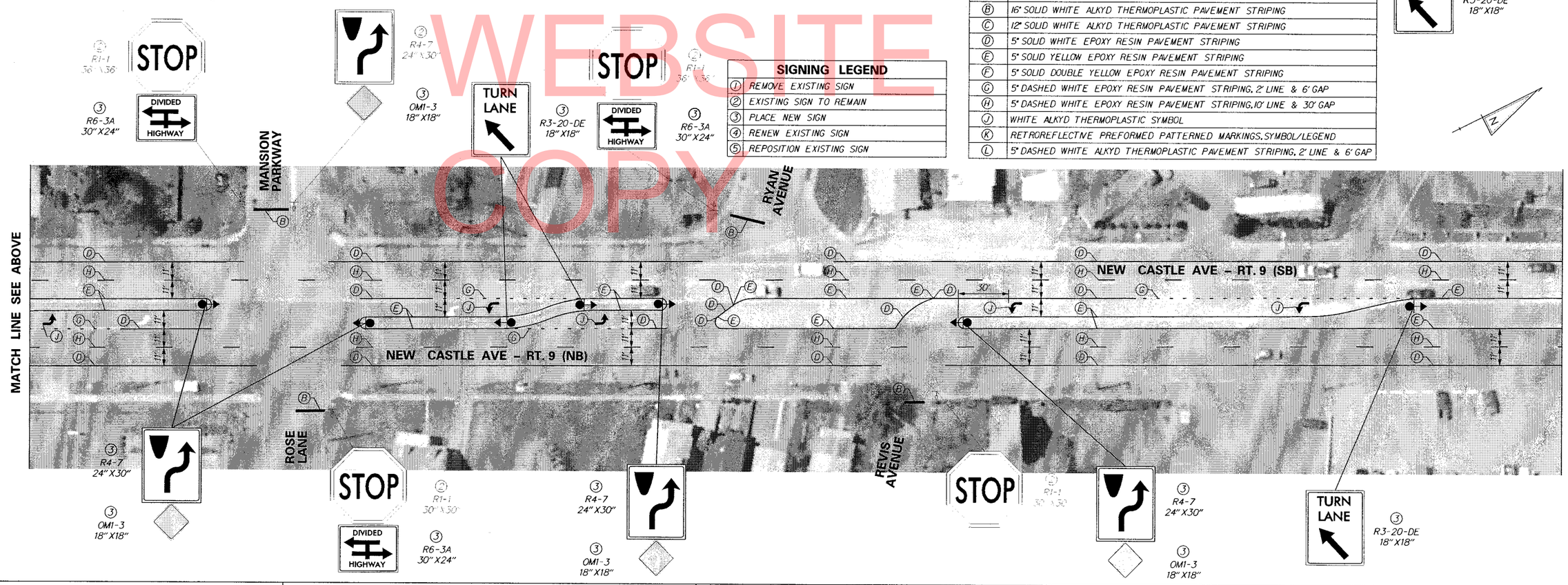


PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
(A)	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
(B)	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
(C)	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
(D)	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
(E)	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
(F)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
(G)	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
(H)	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
(J)	WHITE ALKYD THERMOPLASTIC SYMBOL
(K)	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
(L)	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

SIGNING LEGEND

(1)	REMOVE EXISTING SIGN
(2)	EXISTING SIGN TO REMAIN
(3)	PLACE NEW SIGN
(4)	RENEW EXISTING SIGN
(5)	REPOSITION EXISTING SIGN



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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

PAVEMENT & REHABILITATION NORTH 1, 2012

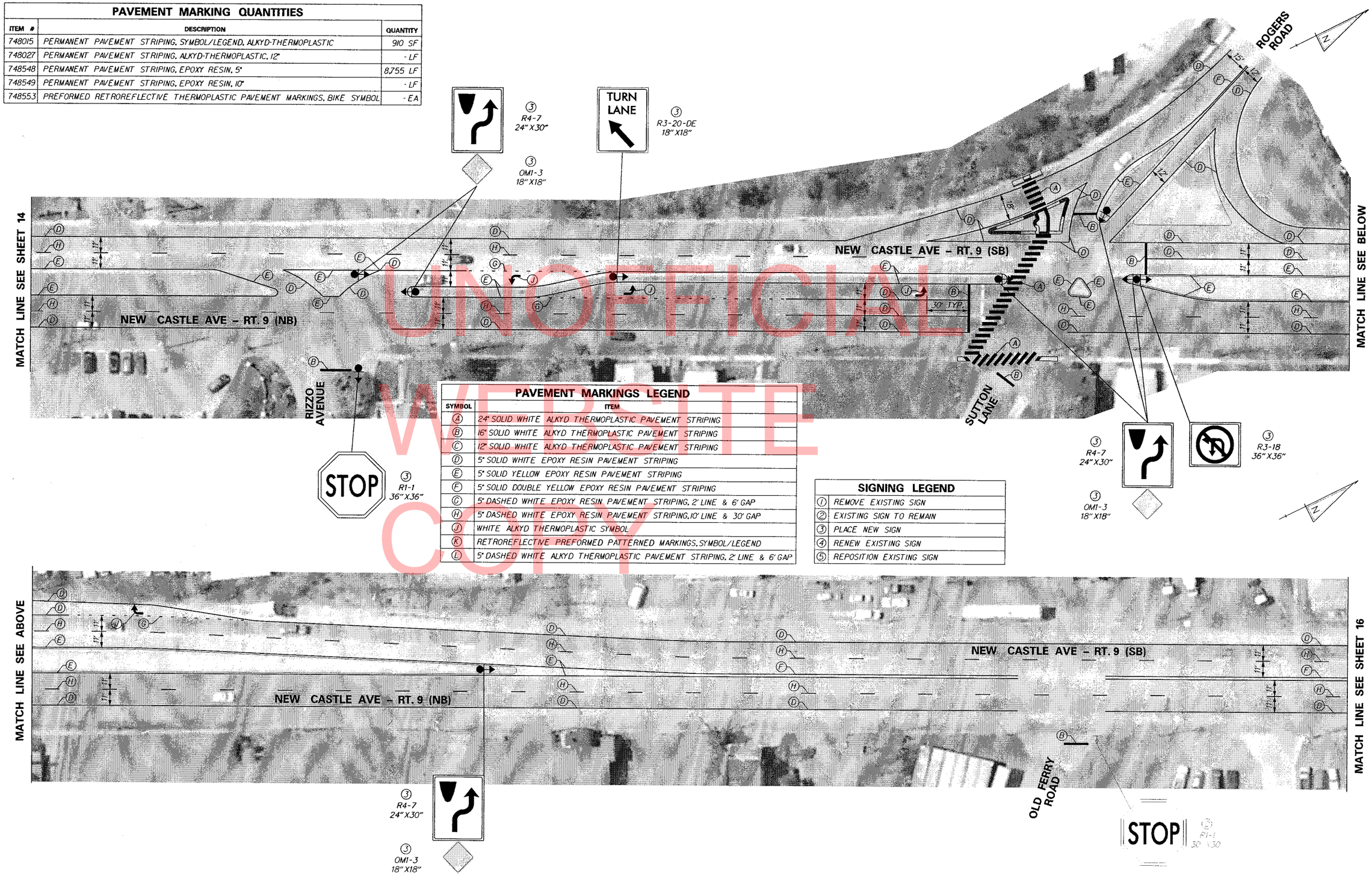
AGREEMENT NO.	PERMIT NO.	-
T201206101	DESIGNED BY:	MJP
COUNTY	CHECKED BY:	BAM
NEW CASTLE		

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 14
TOTAL SHTS. 24

PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	910 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	8,755 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA



PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
A	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
B	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
C	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
D	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
E	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
F	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
G	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
H	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
J	WHITE ALKYD THERMOPLASTIC SYMBOL
K	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
L	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

SIGNING LEGEND

1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

PAVEMENT & REHABILITATION NORTH I, 2012

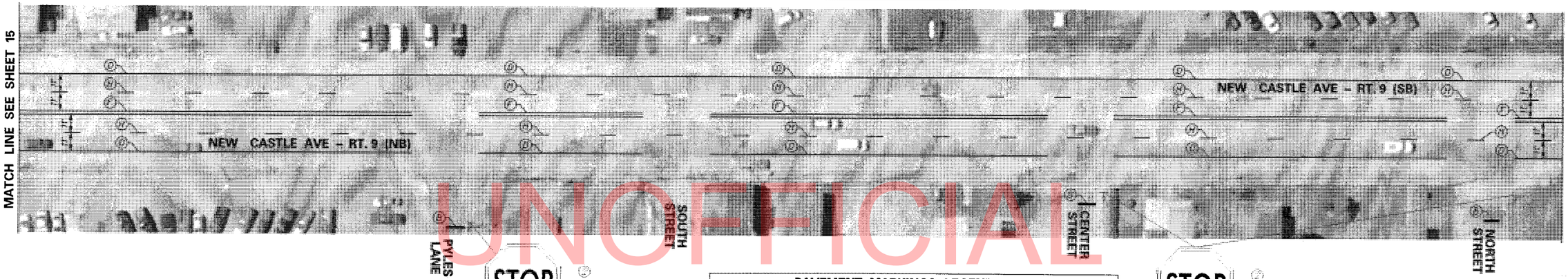
AGREEMENT NO.	PERMIT NO.	-
T201206101	DESIGNED BY:	MJP
COUNTY	CHECKED BY:	RAM
NEW CASTLE		

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 15
TOTAL SHTS. 24

PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	50 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	7,735 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA

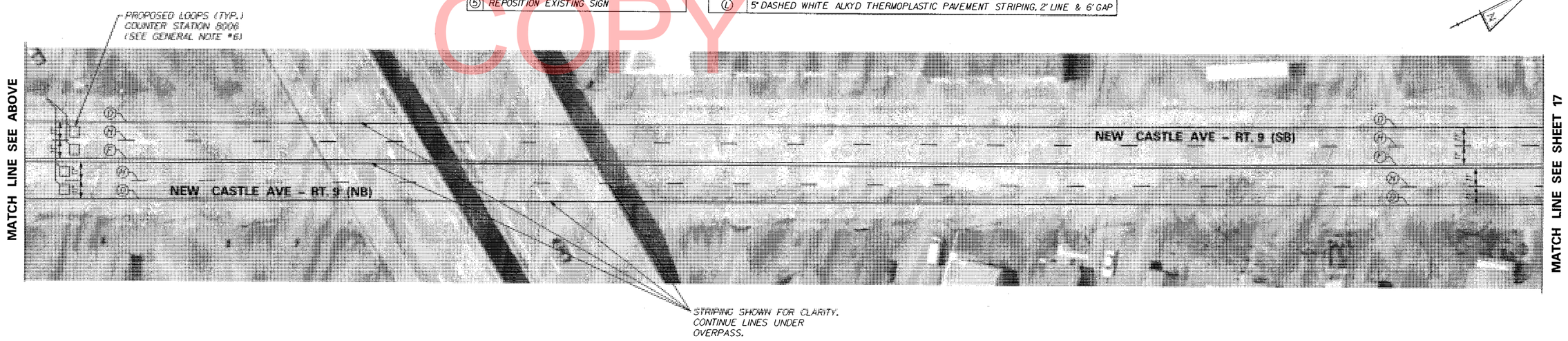


SIGNING LEGEND

1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
A	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
B	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
C	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
D	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
E	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
F	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
G	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
H	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
J	WHITE ALKYD THERMOPLASTIC SYMBOL
K	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
L	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP



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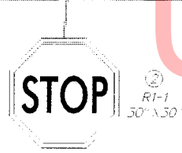
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	PAVEMENT & REHABILITATION NORTH I, 2012	AGREEMENT NO. T201206101 / COUNTY NEW CASTLE	PERMIT NO. - / DESIGNED BY: MJP / CHECKED BY: BAM	PROPOSED SIGNING AND STRIPING PLAN	SHEET NO. 16 / TOTAL SHTS. 24



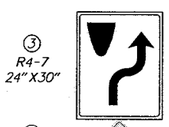
UNOFFICIAL WEBSITE COPY

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
Ⓐ	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓑ	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓒ	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓓ	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
Ⓔ	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
Ⓕ	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
Ⓖ	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
Ⓗ	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
Ⓙ	WHITE ALKYD THERMOPLASTIC SYMBOL
Ⓚ	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
Ⓛ	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

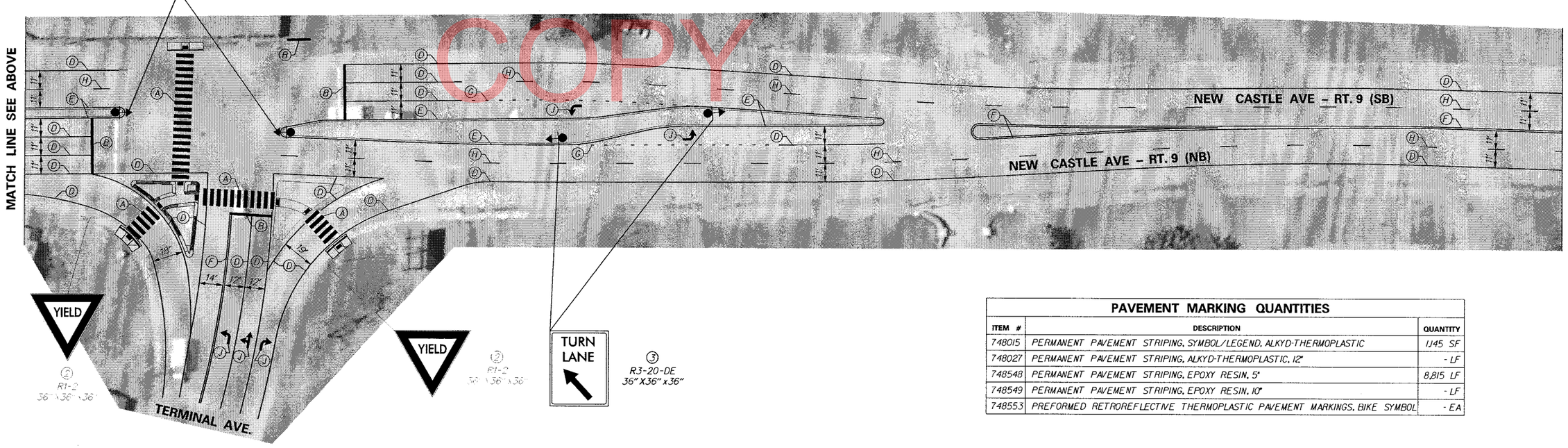
SIGNING LEGEND

①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN



③ R4-7 24"X30"

③ OM1-3 18"X18"



PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	1,145 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	8,815 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

PAVEMENT & REHABILITATION NORTH I, 2012

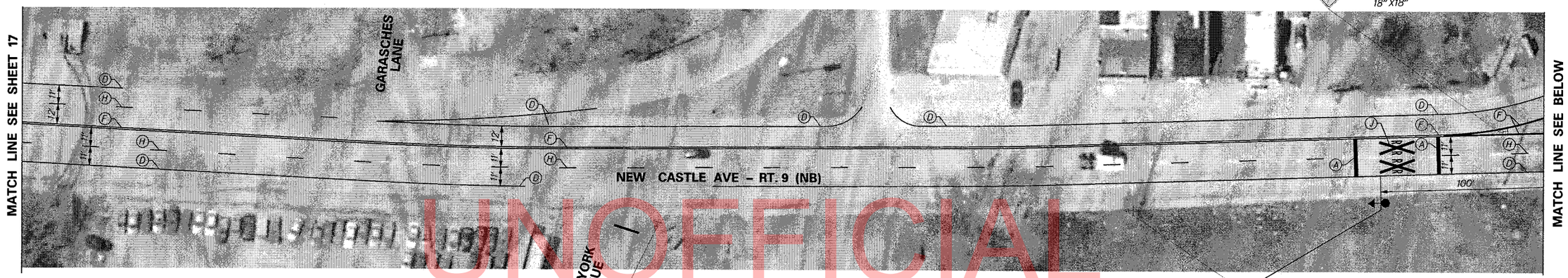
AGREEMENT NO.	PERMIT NO.	-
T201206101	DESIGNED BY:	MJP
COUNTY		
NEW CASTLE	CHECKED BY:	BAM

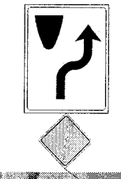
PROPOSED SIGNING AND STRIPING PLAN

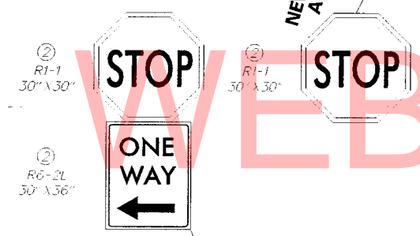
SHEET NO. 17

TOTAL SHTS. 24

DATES REVISED

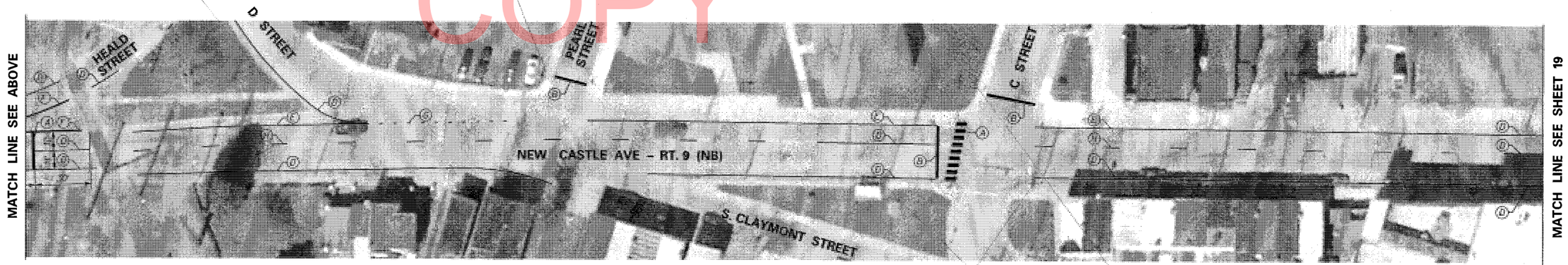






PAVEMENT MARKINGS LEGEND	
SYMBOL	ITEM
Ⓐ	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓑ	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓒ	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓓ	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
Ⓔ	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
Ⓕ	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
Ⓖ	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
Ⓗ	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
Ⓙ	WHITE ALKYD THERMOPLASTIC SYMBOL
Ⓚ	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
Ⓛ	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN



PAVEMENT MARKING QUANTITIES		
ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	500 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	6,980 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

PAVEMENT & REHABILITATION NORTH I, 2012

AGREEMENT NO.	PERMIT NO.	-
T201206101	DESIGNED BY:	MJP
COUNTY		
NEW CASTLE	CHECKED BY:	BAM

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 18
TOTAL SHTS. 24

DATES SETTLES 9/6/2012

PAVEMENT MARKING QUANTITIES		
ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	655 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	1,600 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA

UNOFFICIAL WEBSITE COPY

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND	
SYMBOL	ITEM
Ⓐ	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓑ	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓒ	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓓ	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
Ⓔ	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
Ⓕ	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
Ⓖ	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
Ⓗ	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
Ⓙ	WHITE ALKYD THERMOPLASTIC SYMBOL
Ⓚ	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
Ⓛ	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

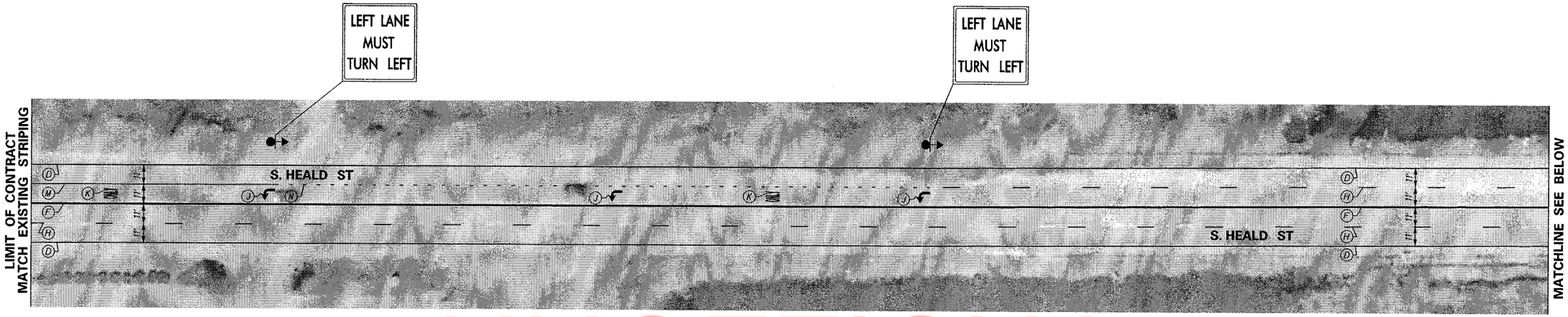
PAVEMENT & REHABILITATION NORTH I, 2012

AGREEMENT NO.	PERMIT NO.	-
T201206101	DESIGNED BY:	MJP
COUNTY		
NEW CASTLE	CHECKED BY:	BAM

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 19

TOTAL SHTS. 24



UNOFFICIAL WEBSITE COPY

PAVEMENT MARKING QUANTITIES

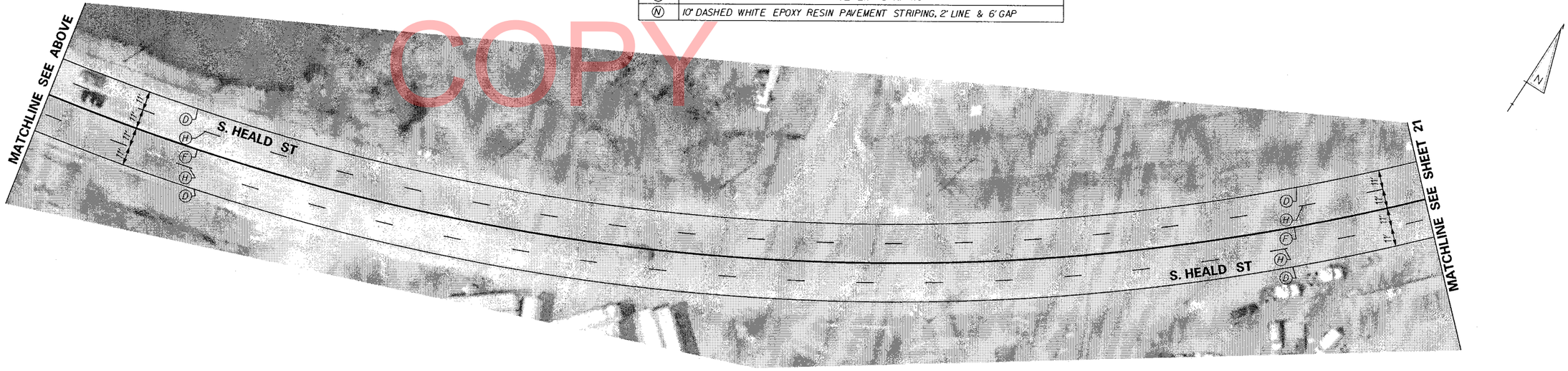
ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	50 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	6,886 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	235 LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, "ONLY" SYMBOL	1 EA

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
A	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
B	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
C	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
D	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
E	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
F	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
G	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
H	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
J	WHITE ALKYD THERMOPLASTIC SYMBOL
K	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
L	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP
M	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
N	10" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP

SIGNING LEGEND

1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN



DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

PAVEMENT & REHABILITATION NORTH I, 2012

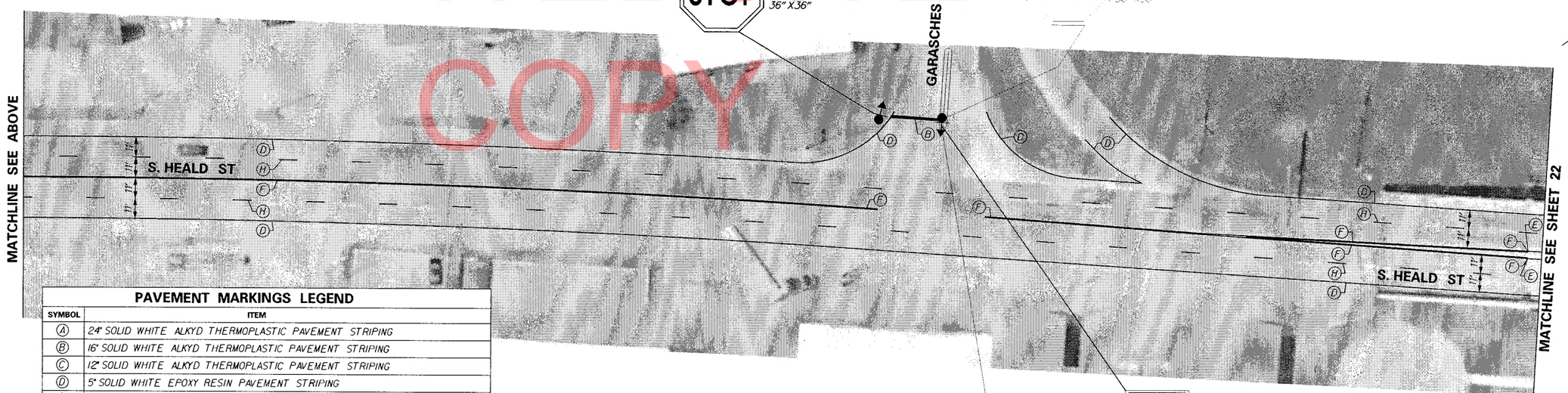
AGREEMENT NO.	PERMIT NO.	-
T201206101	DESIGNED BY:	MJP
COUNTY		
NEW CASTLE	CHECKED BY:	BAM

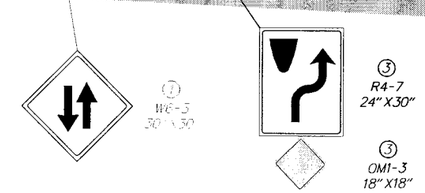
PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 20

TOTAL SHTS. 24

PAVEMENT MARKING QUANTITIES		
ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	14 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	6,878 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA





PAVEMENT MARKINGS LEGEND	
SYMBOL	ITEM
Ⓐ	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓑ	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓒ	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓓ	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
Ⓔ	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
Ⓕ	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
Ⓖ	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
Ⓗ	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
Ⓙ	WHITE ALKYD THERMOPLASTIC SYMBOL
Ⓚ	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
Ⓛ	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

UNOFFICIAL WEBSITE COPY

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

PAVEMENT & REHABILITATION NORTH 1, 2012

AGREEMENT NO.	PERMIT NO.	-
T201206101	DESIGNED BY:	MJP
COUNTY		
NEW CASTLE	CHECKED BY:	BAM

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 21
TOTAL SHTS. 24

UNOFFICIAL WEBSITE COPY

PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	1,423 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	5,785 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
A	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
B	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
C	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
D	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
E	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
F	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
G	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
H	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
J	WHITE ALKYD THERMOPLASTIC SYMBOL
K	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
L	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

SIGNING LEGEND

1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

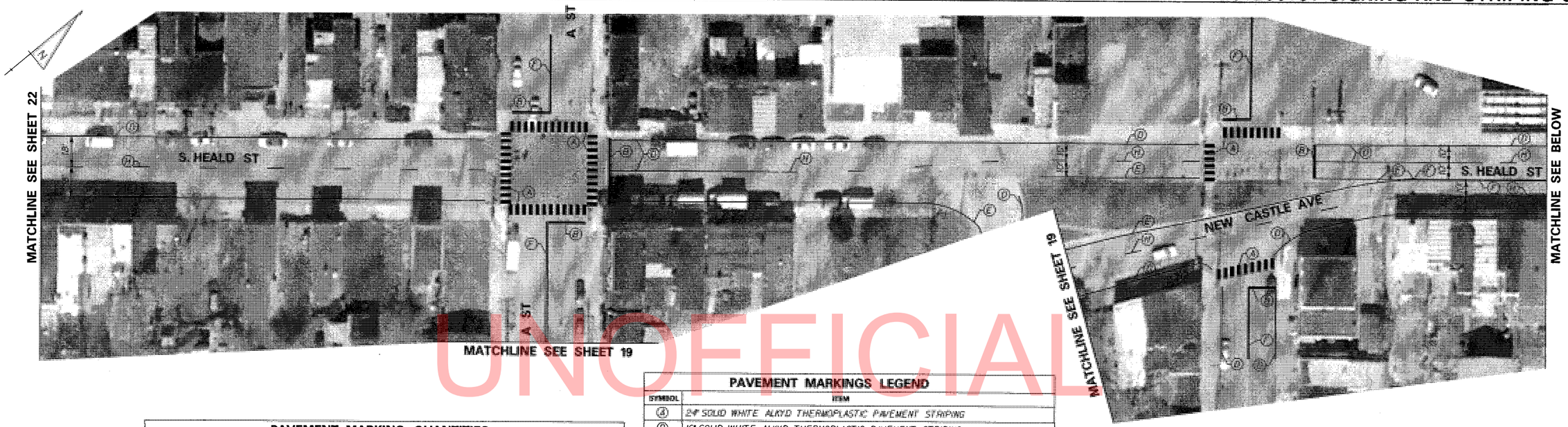
PAVEMENT & REHABILITATION NORTH I, 2012

AGREEMENT NO.	PERMIT NO.	-	
T201206101	DESIGNED BY:	MJP	
COUNTY			
NEW CASTLE	CHECKED BY:	BAM	

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 22

TOTAL SHTS. 24



UNOFFICIAL WEB COPY

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM
Ⓐ	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓑ	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓒ	12" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING
Ⓓ	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING
Ⓔ	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING
Ⓕ	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING
Ⓖ	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP
Ⓗ	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP
Ⓙ	WHITE ALKYD THERMOPLASTIC SYMBOL
Ⓚ	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND
Ⓛ	5" DASHED WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING, 2' LINE & 6' GAP

PAVEMENT MARKING QUANTITIES

ITEM #	DESCRIPTION	QUANTITY
748015	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	900 SF
748027	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	- LF
748548	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 5"	5,510 LF
748549	PERMANENT PAVEMENT STRIPING, EPOXY RESIN, 10"	- LF
748553	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL	- EA

SIGNING LEGEND

①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

COPY

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

PAVEMENT & REHABILITATION
NORTH 1, 2012

AGREEMENT NO.	PERMIT NO.	-
T201206101	DESIGNED BY:	MJP
COUNTY		
NEW CASTLE	CHECKED BY:	BAM

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 23
TOTAL SHTS. 24

P&R PERMANENT SIGN SCHEDULE

NO.	SHEET NO.	PLAN INDICATOR	CODE (DE-MUTCD)	QTY.	DISCRIPTION	ASSEMBLY NO.	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	SIGN AREA (SF)	ITEM 749687 SINGLE POST (EACH)				ITEM 749690 MULTI POST (SF)				POST INSTALLATION TYPE	Code X11 12' Post (W/ Basepost)	ITEM 749688 4" HOLE, 0-6" (EACH)	ITEM 749689 4" HOLE, >6" (EACH)	REMARKS
										SIGN DISPOSTION	TOTAL SIGN AREA (SF)	REMOVE	INSTALL	SIGN DISPOSTION	TOTAL SIGN AREA (SF)	REMOVE	INSTALL					
1	4		R3-20-DE	1	TURN LANE		18	18	2	NEW	2	0	1		0	0	0	CONCRETE	1	1	0	
2	4		R4-7	4	ISLAND AHEAD, KEEP RIGHT		24	30	5	NEW	20	0	4		0	0	0	CONCRETE	4	4	0	
3	4		R6-1L	1	"ONE WAY" - ARROW TO THE LEFT		54	18	7		0	0	0	NEW	7	0	2	SOIL	2	0	0	
4	4		R6-3A	2	DIVIDED HIGHWAY		30	24	5	ADD TO EXIST.	10	0	2		0	0	0		0	0	0	
5	4		OM1-3	4	OBJECT MARKER		18	18	2	ADD TO EXIST.	9	0	4		0	0	0		0	0	0	
6	5		R1-2	2	"YIELD"		36	36	9	RENEW	18	2	2		0	0	0		0	0	0	
7	5		R4-7	7	ISLAND AHEAD, KEEP RIGHT		24	30	5	NEW	35	0	7		0	0	0	CONCRETE	7	7	0	
8	5		R6-3A	1	DIVIDED HIGHWAY		30	24	5	ADD TO EXIST.	5	0	1		0	0	0		0	0	0	
9	5		W10-1	2	"RXR" - SYMBOL		36	36	9	NEW	18	0	2		0	0	0	SOIL	2	0	0	
10	5		OM1-3	8	OBJECT MARKER		18	18	2	ADD TO EXIST.	18	0	8		0	0	0		0	0	0	
11	6		R3-4	1	NO U-TURN - SYMBOL		24	24	4	ADD TO EXIST.	4	0	1		0	0	0		0	0	0	
12	6		R3-18	1	NO U-TURN/LEFT TURN - SYMBOL		24	24	4	ADD TO EXIST.	4	0	1		0	0	0		0	0	0	
13	6		R3-20-DE	2	TURN LANE		18	18	2	NEW	5	0	2		0	0	0	CONCRETE	2	2	0	
14	6		R4-7	6	ISLAND AHEAD, KEEP RIGHT		24	30	5	NEW	30	0	6		0	0	0	CONCRETE	6	6	0	
15	6		R6-1L	4	"ONE WAY" - ARROW TO THE LEFT		54	18	7		0	0	0	NEW	28	0	2	SOIL	2	0	0	
16	6		OM1-3	10	OBJECT MARKER		18	18	2	ADD TO EXIST.	23	0	10		0	0	0		0	0	0	
17	7		R3-20-DE	1	TURN LANE		18	18	2	NEW	2	0	1		0	0	0	CONCRETE	1	1	0	
18	7		R3-20-DE	1	TURN LANE		18	18	2	ADD TO EXIST.	2	0	1		0	0	0		0	0	0	
19	7		R4-7	2	ISLAND AHEAD, KEEP RIGHT		24	30	5	NEW	10	0	2		0	0	0	CONCRETE	2	2	0	
20	7		R6-1L	1	"ONE WAY" - ARROW TO THE LEFT		54	18	7		0	0	0	NEW	7	0	2	SOIL	2	0	0	
21	7		OM1-3	4	OBJECT MARKER		18	18	2	ADD TO EXIST.	9	0	4		0	0	0		0	0	0	
22	8		R3-20-DE	3	TURN LANE		18	18	2	NEW	7	0	3		0	0	0	CONCRETE	3	3	0	
23	8		R4-7	8	ISLAND AHEAD, KEEP RIGHT		24	30	5	NEW	40	0	8		0	0	0	CONCRETE	8	8	0	
24	8		R6-1L	2	"ONE WAY" - ARROW TO THE LEFT		54	18	7		0	0	0	NEW	14	0	2	SOIL	2	0	0	
25	8		R6-3A	2	DIVIDED HIGHWAY		30	24	5	ADD TO EXIST.	10	0	2		0	0	0		0	0	0	
26	8		OM1-3	11	OBJECT MARKER		18	18	2	ADD TO EXIST.	25	0	11		0	0	0		0	0	0	
27	9		R3-20-DE	2	TURN LANE		18	18	2	NEW	5	0	2		0	0	0	CONCRETE	2	2	0	
28	9		R4-7	3	ISLAND AHEAD, KEEP RIGHT		24	30	5	NEW	15	0	3		0	0	0	CONCRETE	3	3	0	
29	9		R6-1L	1	"ONE WAY" - ARROW TO THE LEFT		54	18	7		0	0	0	NEW	7	0	2	CONCRETE	2	2	0	
30	9		R6-3A	1	DIVIDED HIGHWAY		30	24	5	ADD TO EXIST.	5	0	1		0	0	0		0	0	0	
31	9		OM1-3	4	OBJECT MARKER		18	18	2	ADD TO EXIST.	9	0	4		0	0	0		0	0	0	
32	10		R4-7	1	ISLAND AHEAD, KEEP RIGHT		24	36	6	REPOSITION	0	1	1		0	0	0	CONCRETE	0	1	0	
33	10		R3-4	1	NO U-TURN - SYMBOL		24	24	4	REPOSITION	0	0	0		0	0	0		0	0	0	Attached to sign above
34	10		OM1-3	1	OBJECT MARKER		18	18	2	ADD TO EXIST.	2	0	1		0	0	0		0	0	0	
35	11		R3-20-DE	1	TURN LANE		18	18	2	NEW	2	0	1		0	0	0	CONCRETE	1	1	0	
36	12		R4-7	5	ISLAND AHEAD, KEEP RIGHT		24	30	5	NEW	25	0	5		0	0	0	CONCRETE	5	5	0	
37	12		R6-3A	1	DIVIDED HIGHWAY		30	24	5	ADD TO EXIST.	5	0	1		0	0	0		0	0	0	
38	12		OM1-3	5	OBJECT MARKER		18	18	2	ADD TO EXIST.	11	0	5		0	0	0		0	0	0	
39	13		R3-20-DE	3	TURN LANE		18	18	2	NEW	7	0	3		0	0	0	CONCRETE	3	3	0	
40	13		R4-7	5	ISLAND AHEAD, KEEP RIGHT		24	30	5	NEW	25	0	5		21	0	2	CONCRETE	5	7	0	
41	13		R6-1L	3	"ONE WAY" - ARROW TO THE LEFT		54	18	7		0	0	0	NEW	0	0	0	SOIL	0	0	0	
					PAGE TOTALS						416	3	115		84	0	12		65	58	0	

P&R PERMANENT SIGN SCHEDULE

NO.	SHEET NO.	PLAN INDICATOR	CODE (DE-MUTCD)	QTY.	DISCRIPTION	ASSEMBLY NO.	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	SIGN AREA (SF)	ITEM 749687 SINGLE POST (EACH)				ITEM 749690 MULTI POST (SF)				POST INSTALLATION TYPE	Code X11 12' Post (W/ Basepost)	ITEM 749688 4" HOLE, 0-6" (EACH)	ITEM 749689 4" HOLE, >6" (EACH)	REMARKS
										SIGN DISPOSTION	TOTAL SIGN AREA (SF)	REMOVE	INSTALL	SIGN DISPOSTION	TOTAL SIGN AREA (SF)	REMOVE	INSTALL					
1	13		OM1-3	6	OBJECT MARKER		18	18	2	ADD TO EXIST.	14	0	6		0	0	0		0	0	0	
2	14		R4-7	6	ISLAND AHEAD, KEEP RIGHT		24	30	5	NEW	30	0	6		0	0	0	CONCRETE	6	6	0	
3	14		R6-3A	3	DIVIDED HIGHWAY		30	24	5	ADD TO EXIST.	15	0	3		0	0	0		0	0	0	
4	14		OM1-3	7	OBJECT MARKER		18	18	2	ADD TO EXIST.	16	0	7		0	0	0		0	0	0	
5	14		R3-20-DE	4	TURN LANE		18	18	2	NEW	9	0	4		0	0	0	CONCRETE	4	4	0	
6	15		R1-1	1	"STOP"		36	36	9	NEW	9	0	1		0	0	0	CONCRETE	1	1	0	
7	15		R3-20-DE	1	TURN LANE		18	18	2	NEW	2	0	1		0	0	0	CONCRETE	1	1	0	
8	15		R4-7	6	ISLAND AHEAD, KEEP RIGHT		24	30	5	NEW	30	0	6		0	0	0	CONCRETE	6	6	0	
9	15		OM1-3	6	OBJECT MARKER		18	18	2	ADD TO EXIST.	14	0	6		0	0	0		0	0	0	
10	17		R3-20-DE	2	TURN LANE		18	18	2	NEW	5	0	2		0	0	0	CONCRETE	2	2	0	
11	17		R4-7	2	ISLAND AHEAD, KEEP RIGHT		24	30	5	NEW	10	0	2		0	0	0	CONCRETE	2	2	0	
12	17		OM1-3	2	OBJECT MARKER		18	18	2	ADD TO EXIST.	5	0	2		0	0	0		0	0	0	
13	18		W10-1	1	"RXR" - SYMBOL		36	36	9	REPOSITION	9	1	1		0	0	0	SOIL	0	0	0	
14	19		W16-7P	1	DIAGONAL ARROW		24	12	2	ADD TO EXIST.	2	0	1		0	0	0		0	0	0	
15	21		R1-1	1	"STOP"		30	30	6	REMOVE	6	1	0		0	0	0		0	0	0	
16	21		R1-1	1	"STOP"		36	36	9	NEW	9	0	1		0	0	0	HOTMIX	1	0	1	
17	21		W6-3	1	2-WAY TRAFFIC SYMBOL		30	30	6	REMOVE	6	1	0		0	0	0		0	0	0	
18	21		R4-7	1	ISLAND AHEAD, KEEP RIGHT		24	30	5	NEW	5	0	1		0	0	0	CONCRETE	1	1	0	
19	21		OM1-3	1	OBJECT MARKER		18	18	2	ADD TO EXIST.	2	0	1		0	0	0		0	0	0	
20									0		0	0	0		0	0	0		0	0	0	
					PAGE TOTALS						197	3	51		0	0	0		24	23	1	
					JOB TOTALS						613	6	166		84	0	14		89	81	1	

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

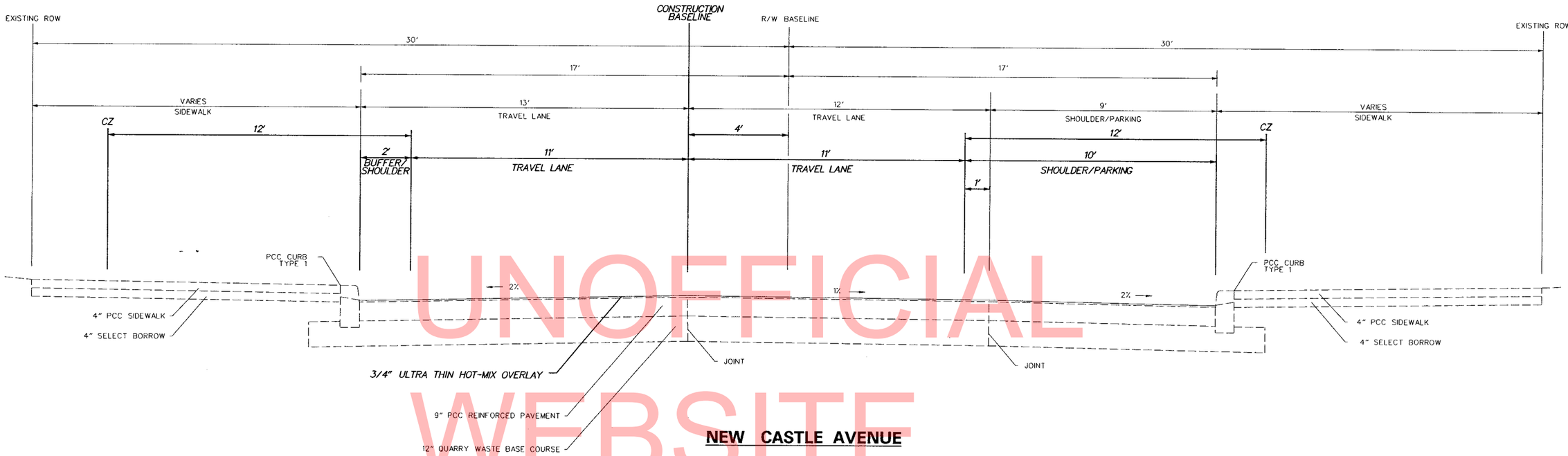
SCALE 0 30 60 90 FEET

PAVEMENT & REHABILITATION NORTH I, 2012

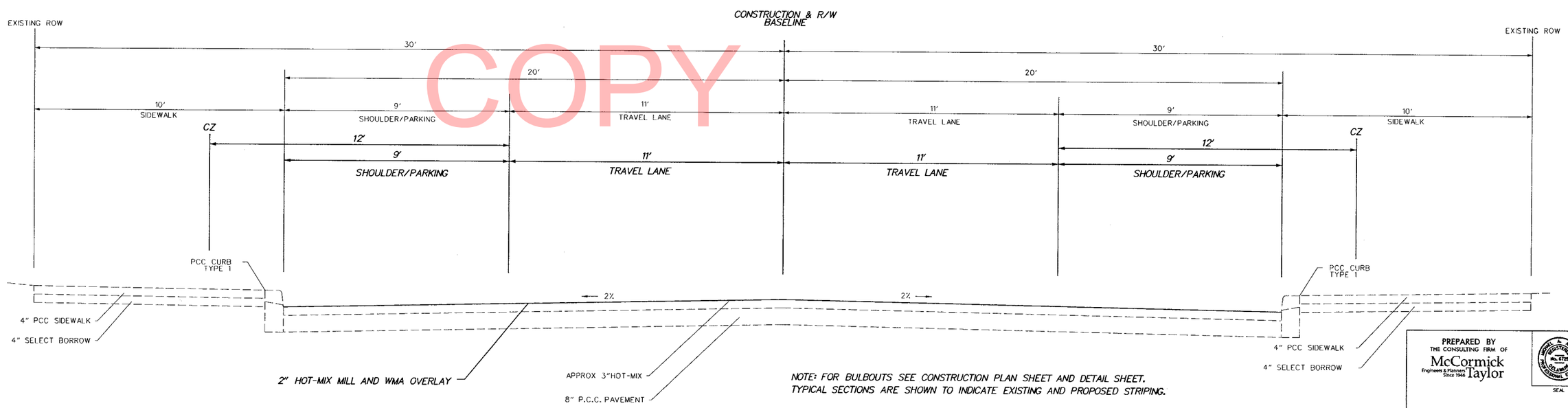
AGREEMENT NO. T201206101 | COUNTY NEW CASTLE | PERMIT NO. - | DESIGNED BY: MJP | CHECKED BY: BAM

PROPOSED SIGNING AND STRIPING PLAN

SHEET NO. 24 | TOTAL SHTS. 24



NEW CASTLE AVENUE



NOTE: FOR BULBOUTS SEE CONSTRUCTION PLAN SHEET AND DETAIL SHEET.
TYPICAL SECTIONS ARE SHOWN TO INDICATE EXISTING AND PROPOSED STRIPING.

SOUTH HEALD STREET

PREPARED BY THE CONSULTING FIRM OF McCormick Taylor Engineers & Planners Since 1946

SEAL

RECOMMENDED 8/28/2013 DATE

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 2 4 6 FEET	PAVEMENT & REHABILITATION - NORTH 1, 2012	CONTRACT T201206101	BRIDGE NO. N/A	TYPICAL SECTIONS	TS-01 SHEET NO.
				COUNTY NEW CASTLE	DESIGNED BY: LB CHECKED BY: JMH		TOTAL SHTS.

8/29/2013
...\TS001_SOUTHBRIDGE.dgn

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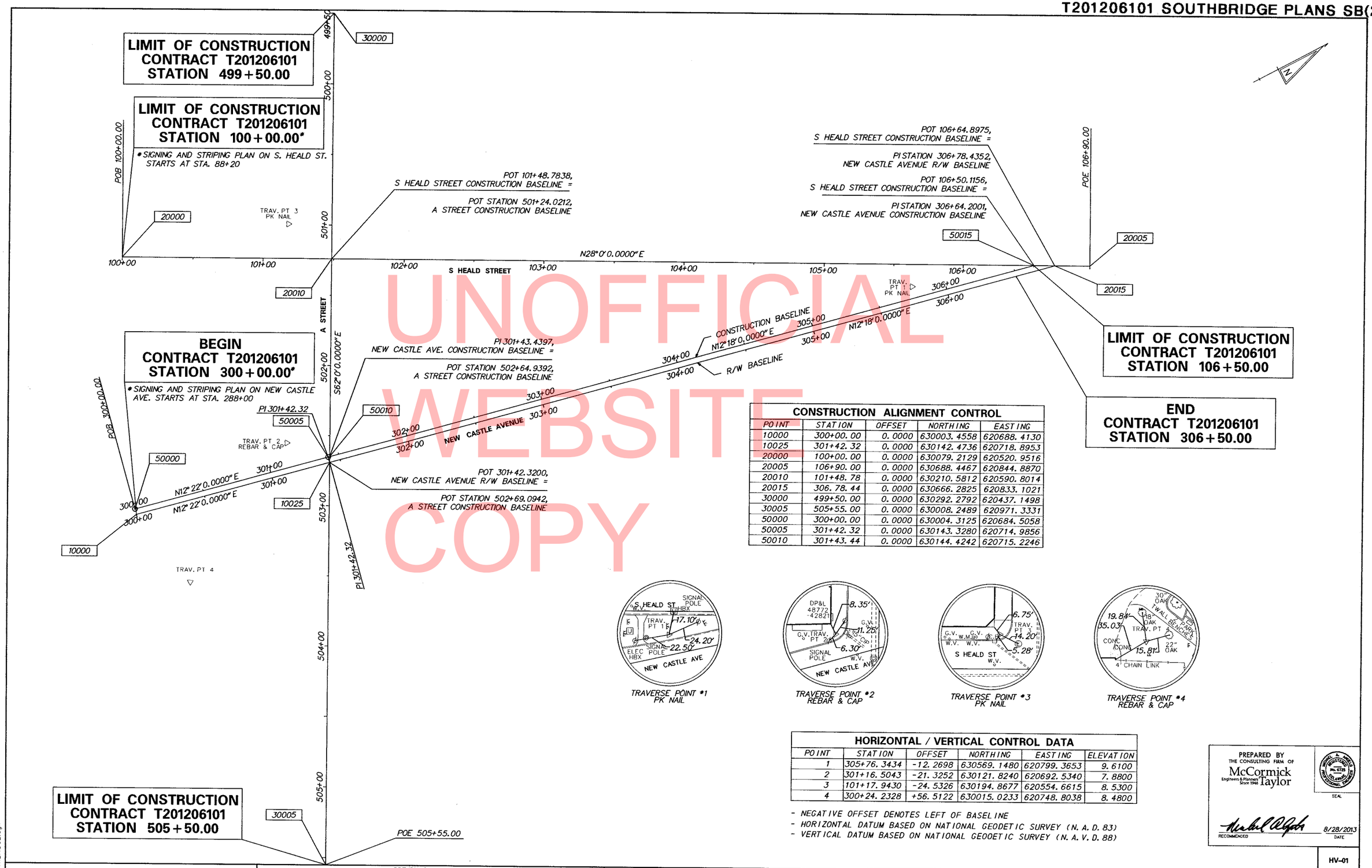

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
10000	300+00.00	0.0000	630003.4558	620688.4130
10025	301+42.32	0.0000	630142.4736	620718.8953
20000	100+00.00	0.0000	630079.2129	620520.9516
20005	106+90.00	0.0000	630688.4467	620844.8870
20010	101+48.78	0.0000	630210.5812	620590.8014
20015	306.78.44	0.0000	630666.2825	620833.1021
30000	499+50.00	0.0000	630292.2792	620437.1498
30005	505+55.00	0.0000	630008.2489	620971.3331
50000	300+00.00	0.0000	630004.3125	620684.5058
50005	301+42.32	0.0000	630143.3280	620714.9856
50010	301+43.44	0.0000	630144.4242	620715.2246

TRAVERSE POINT #1
PK NAIL

TRAVERSE POINT #2
REBAR & CAP

TRAVERSE POINT #3
PK NAIL

TRAVERSE POINT #4
REBAR & CAP

HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
1	305+76.3434	-12.2698	630569.1480	620799.3653	9.6100
2	301+16.5043	-21.3252	630121.8240	620692.5340	7.8800
3	101+17.9430	-24.5326	630194.8677	620554.6615	8.5300
4	300+24.2328	+56.5122	630015.0233	620748.8038	8.4800

- NEGATIVE OFFSET DENOTES LEFT OF BASELINE
- HORIZONTAL DATUM BASED ON NATIONAL GEODETIC SURVEY (N.A.D.83)
- VERTICAL DATUM BASED ON NATIONAL GEODETIC SURVEY (N.A.V.D.88)

PREPARED BY
THE CONSULTING FIRM OF
McCormick Taylor
Engineers & Planners Since 1946

SEAL

RECOMMENDED 8/28/2013 DATE

HV-01

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY		
NEW CASTLE	CHECKED BY: JMH	

HORIZONTAL AND VERTICAL CONTROL

SHEET NO.

TOTAL SHTS.

8/29/2013
...\HV001_SOUTHBRIDGE.dgn

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CONVERT TO MANHOLE SCHEDULE

NO.	STATION	OFFSET	T.G. EL.	INV. EL.
1	101+85.00	19.10	8.28	5.88

CONVERT TO JUNCTION BOX SCHEDULE

NO.	STATION	OFFSET	T.G. EL.	INV. EL.
1	301+63.87	22.99	7.04	4.82
2	503+09.44	21.32	6.79	4.29

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
1	301+83.54	20.72	24" x 34"	1	7.32	4.92
2	300+88.96	19.47	24" x 34"	1	7.03	4.43
3	301+25.63	-13.24	24" x 34"	1	7.14	3.30
4	502+26.03	19.38	24" x 34"	1	7.32	3.46
5	301+74.91	-14.81	24" x 34"	1	7.25	3.70
6	502+16.77	-20.60	24" x 34"	1	7.33	3.83
7	101+95.47	19.70	24" x 34"	1	8.25	5.93

UTILITY TEST HOLE SCHEDULE

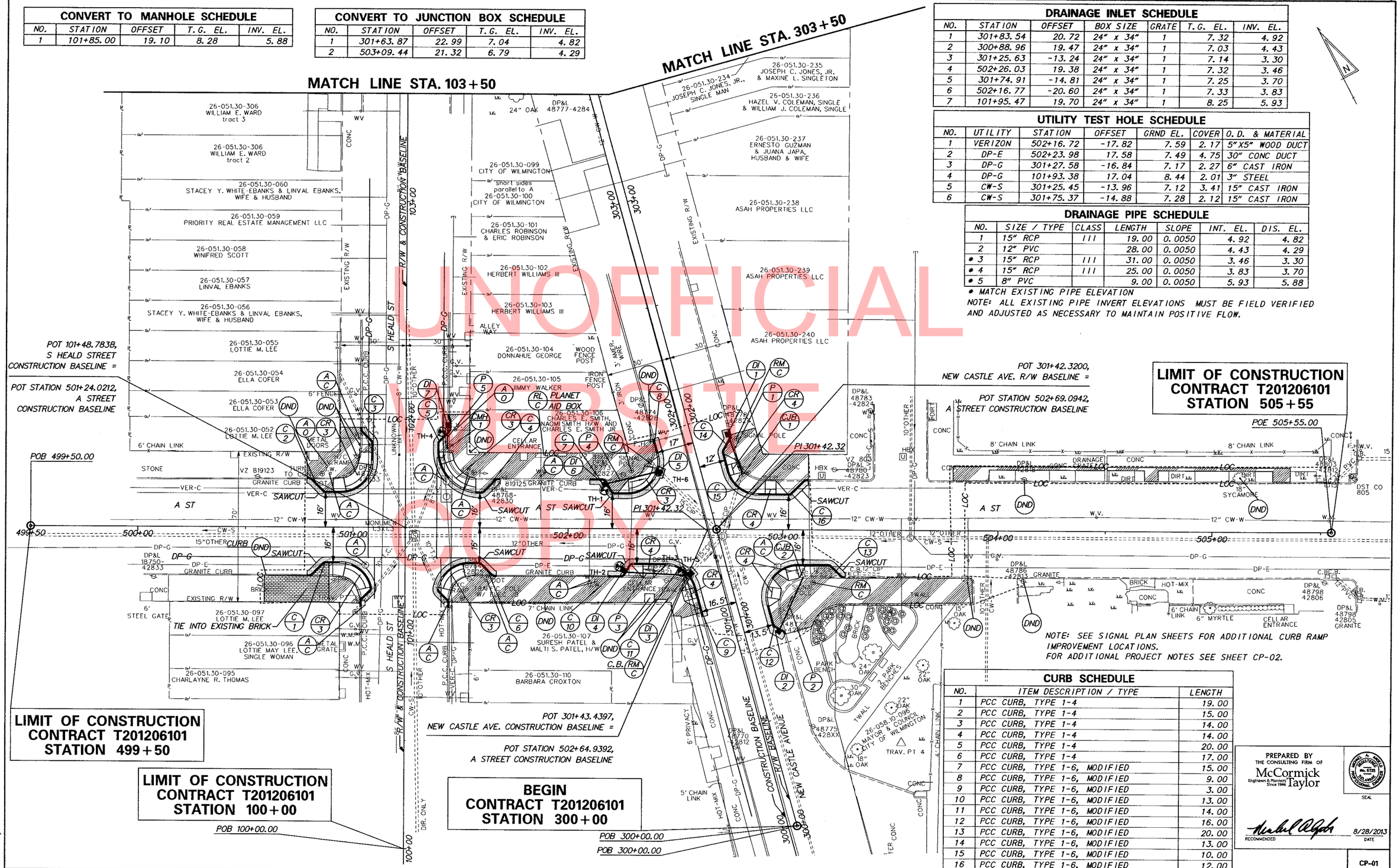
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
1	VERIZON	502+16.72	-17.82	7.59	2.17	5"X5" WOOD DUCT
2	DP-E	502+23.98	17.58	7.49	4.75	30" CONC DUCT
3	DP-G	301+27.58	-16.84	7.17	2.27	6" CAST IRON
4	DP-G	101+93.38	17.04	8.44	2.01	3" STEEL
5	CW-S	301+25.45	-13.96	7.12	3.41	15" CAST IRON
6	CW-S	301+75.37	-14.88	7.28	2.12	15" CAST IRON

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	15" RCP	III	19.00	0.0050	4.92	4.82
2	12" PVC		28.00	0.0050	4.43	4.29
* 3	15" RCP	III	31.00	0.0050	3.46	3.30
* 4	15" RCP	III	25.00	0.0050	3.83	3.70
* 5	8" PVC		9.00	0.0050	5.93	5.88

* MATCH EXISTING PIPE ELEVATION

NOTE: ALL EXISTING PIPE INVERT ELEVATIONS MUST BE FIELD VERIFIED AND ADJUSTED AS NECESSARY TO MAINTAIN POSITIVE FLOW.



CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	PCC CURB, TYPE 1-4	19.00
2	PCC CURB, TYPE 1-4	15.00
3	PCC CURB, TYPE 1-4	14.00
4	PCC CURB, TYPE 1-4	14.00
5	PCC CURB, TYPE 1-4	20.00
6	PCC CURB, TYPE 1-4	17.00
7	PCC CURB, TYPE 1-6, MODIFIED	15.00
8	PCC CURB, TYPE 1-6, MODIFIED	9.00
9	PCC CURB, TYPE 1-6, MODIFIED	3.00
10	PCC CURB, TYPE 1-6, MODIFIED	13.00
11	PCC CURB, TYPE 1-6, MODIFIED	14.00
12	PCC CURB, TYPE 1-6, MODIFIED	16.00
13	PCC CURB, TYPE 1-6, MODIFIED	20.00
14	PCC CURB, TYPE 1-6, MODIFIED	13.00
15	PCC CURB, TYPE 1-6, MODIFIED	10.00
16	PCC CURB, TYPE 1-6, MODIFIED	12.00

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Engineers & Planners Since 1946

SEAL

RECOMMENDED 8/28/2013 DATE

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 20 40 60 FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

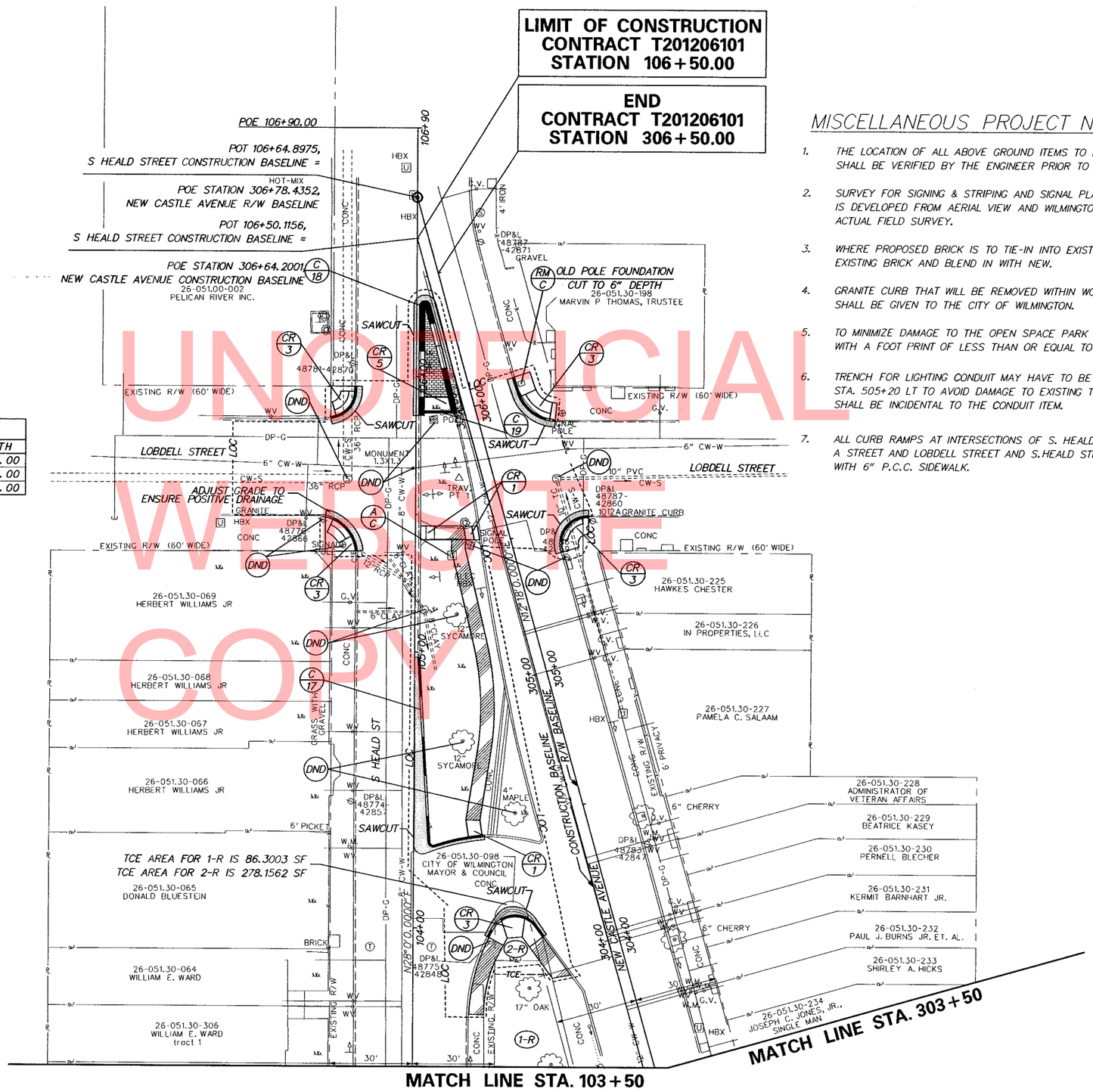
CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY		
NEW CASTLE	CHECKED BY: JMH	

CONSTRUCTION PLAN

SHEET NO. CP-01

TOTAL SHTS.

8/29/2013
...\CP001_SOUTHBRIDGE.dgn



MISCELLANEOUS PROJECT NOTES

1. THE LOCATION OF ALL ABOVE GROUND ITEMS TO BE INSTALLED, SUCH AS LIGHTS, TREES, SIGNS, ETC. SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
2. SURVEY FOR SIGNING & STRIPING AND SIGNAL PLAN SHEETS OUTSIDE THE REGULAR CONSTRUCTION LIMITS IS DEVELOPED FROM AERIAL VIEW AND WILMINGTON PLANIMETRICS FILES AND DOES NOT CORRESPOND TO ACTUAL FIELD SURVEY.
3. WHERE PROPOSED BRICK IS TO TIE-IN INTO EXISTING BRICK, CONTRACTOR SHALL USE PART OF EXISTING BRICK AND BLEND IN WITH NEW.
4. GRANITE CURB THAT WILL BE REMOVED WITHIN WORK LIMITS WILL NOT BE REUSED ON THIS PROJECT AND SHALL BE GIVEN TO THE CITY OF WILMINGTON.
5. TO MINIMIZE DAMAGE TO THE OPEN SPACE PARK LAND AND ADJOINING PROPERTY, A COMPACT EXCAVATOR WITH A FOOT PRINT OF LESS THAN OR EQUAL TO THE WIDTH OF THE SIDEWALK SHALL BE USED.
6. TRENCH FOR LIGHTING CONDUIT MAY HAVE TO BE HAND EXCAVATED AT STA. 505+05 LT AND STA. 505+20 LT TO AVOID DAMAGE TO EXISTING TREE ROOTS. PAYMENT FOR HAND EXCAVATION SHALL BE INCIDENTAL TO THE CONDUIT ITEM.
7. ALL CURB RAMPS AT INTERSECTIONS OF S. HEALD STREET AND A STREET, NEW CASTLE AVENUE AND A STREET AND LOBDELL STREET AND S.HEALD STREET/ NEW CASTLE AVENUE SHALL BE CONSTRUCTED WITH 6" P.C.C. SIDEWALK.

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
17	PCC CURB, TYPE 1-6, MODIFIED	74.00
18	PCC CURB, TYPE 2	86.00
19	PCC CURB, TYPE 1-8	14.00

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RECOMMENDED 8/28/2013 DATE
SEAL

CP-02

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 20 40 60 FEET

PAVEMENT & REHABILITATION - NORTH 1, 2012

CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY		
NEW CASTLE	CHECKED BY: JMH	

CONSTRUCTION PLAN

SHEET NO.
TOTAL SHTS.

8/29/2013
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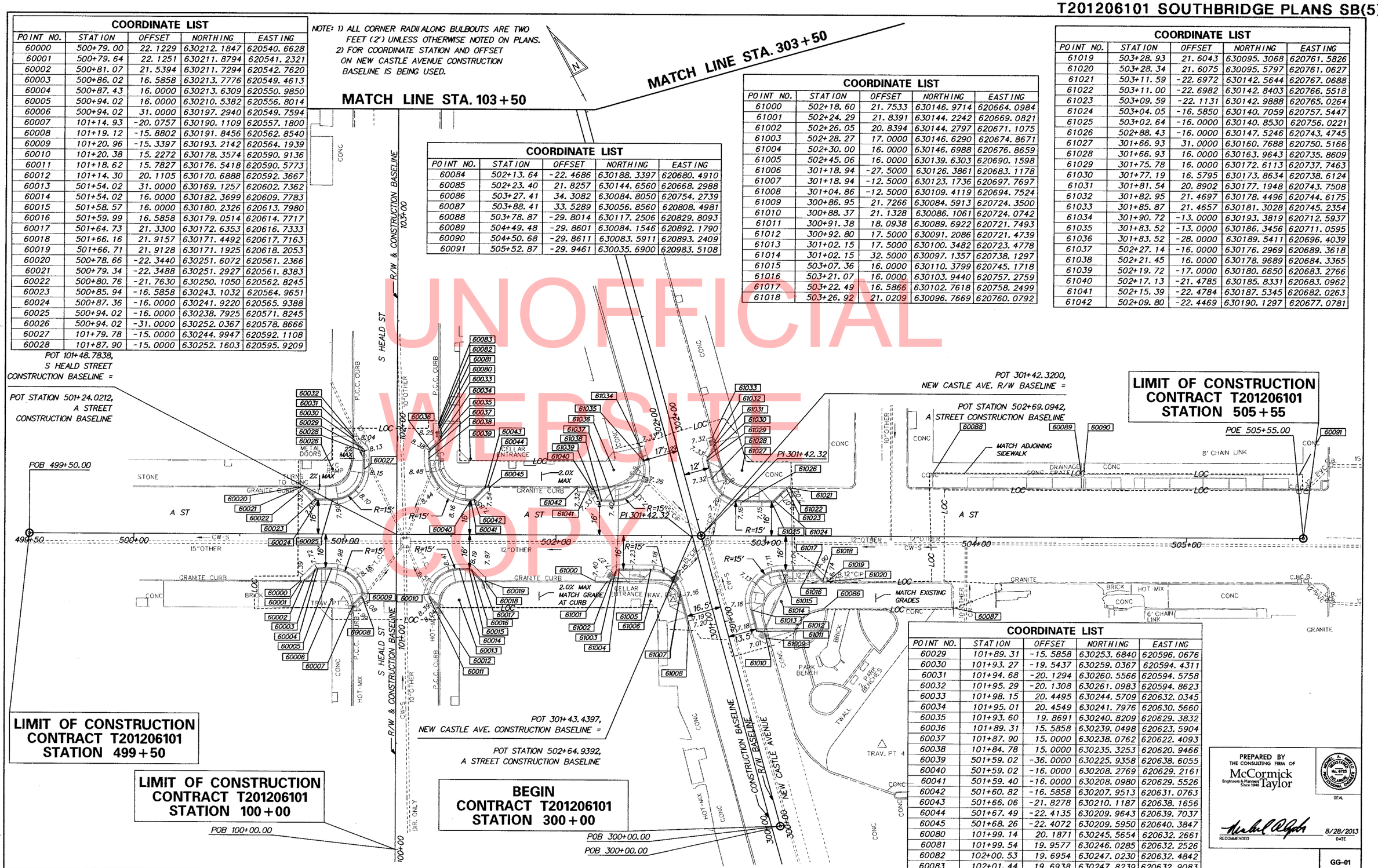
NOTE: 1) ALL CORNER RADII ALONG BULBOUTS ARE TWO FEET (2') UNLESS OTHERWISE NOTED ON PLANS.
2) FOR COORDINATE STATION AND OFFSET ON NEW CASTLE AVENUE CONSTRUCTION BASELINE IS BEING USED.

MATCH LINE STA. 103+50

MATCH LINE STA. 303+50



LIMIT OF CONSTRUCTION
CONTRACT T201206101
STATION 499+50

LIMIT OF CONSTRUCTION
CONTRACT T201206101
STATION 100+00

BEGIN
CONTRACT T201206101
STATION 300+00

LIMIT OF CONSTRUCTION
CONTRACT T201206101
STATION 505+55

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60000	500+79.00	22.1229	630212.1847	620540.6628
60001	500+79.64	22.1251	630211.8794	620541.2321
60002	500+81.07	21.5394	630211.7294	620542.7620
60003	500+86.02	16.5858	630213.7776	620549.4613
60004	500+87.43	16.0000	630213.6309	620550.9850
60005	500+94.02	16.0000	630210.5382	620556.8014
60006	500+94.02	31.0000	630197.2940	620549.7594
60007	101+14.93	-20.0757	630190.1109	620557.1800
60008	101+19.12	-15.8802	630191.8456	620562.8540
60009	101+20.96	-15.3397	630193.2142	620564.1939
60010	101+20.38	15.2272	630178.3574	620590.9136
60011	101+18.62	15.7827	630176.5418	620590.5773
60012	101+14.30	20.1105	630170.6888	620592.3667
60013	501+54.02	31.0000	630169.1257	620602.7362
60014	501+54.02	16.0000	630182.3699	620609.7783
60015	501+58.57	16.0000	630180.2326	620613.7980
60016	501+59.99	16.5858	630179.0514	620614.7717
60017	501+64.73	21.3300	630172.6353	620616.7333
60018	501+66.16	21.9157	630171.4492	620617.7163
60019	501+66.71	21.9128	630171.1925	620618.2053
60020	500+78.66	-22.3440	630251.6072	620561.2366
60021	500+79.34	-22.3488	630251.2927	620561.8383
60022	500+80.76	-21.7630	630250.1050	620562.8245
60023	500+85.94	-16.5858	630243.1032	620564.9651
60024	500+87.36	-16.0000	630241.9220	620565.9388
60025	500+94.02	-16.0000	630238.7925	620571.8245
60026	500+94.02	-31.0000	630252.0367	620578.8666
60027	101+79.78	-15.0000	630244.9947	620592.1108
60028	101+87.90	-15.0000	630252.1603	620595.9209

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60084	502+13.64	-22.4686	630188.3397	620680.4910
60085	502+23.40	21.8257	630144.6560	620668.2988
60086	503+27.41	34.3082	630084.8050	620754.2739
60087	503+88.41	33.5289	630056.8560	620808.4981
60088	503+78.87	-29.8014	630117.2506	620829.8093
60089	504+49.48	-29.8601	630084.1546	620892.1790
60090	504+50.68	-29.8611	630083.5911	620893.2409
60091	505+52.87	-29.9461	630035.6900	620983.5108

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
61000	502+18.60	21.7533	630146.9714	620664.0984
61001	502+24.29	21.8391	630144.2242	620669.0821
61002	502+26.05	20.8394	630144.2797	620671.1075
61003	502+28.27	17.0000	630146.6290	620674.8671
61004	502+30.00	16.0000	630146.6988	620676.8659
61005	502+45.06	16.0000	630139.6303	620690.1598
61006	301+18.94	-27.5000	630126.3861	620683.1178
61007	301+18.94	-12.5000	630123.1736	620697.7697
61008	301+04.86	-12.5000	630109.4119	620694.7524
61009	300+86.95	21.7266	630084.5913	620724.3500
61010	300+88.37	21.1328	630086.1061	620724.0742
61011	300+91.38	18.0938	630089.6922	620721.7493
61012	300+92.80	17.5000	630091.2086	620721.4739
61013	301+02.15	17.5000	630100.3482	620723.4778
61014	301+02.15	32.5000	630097.1357	620738.1297
61015	503+07.36	16.0000	630110.3799	620745.1718
61016	503+21.07	16.0000	630103.9440	620757.2759
61017	503+22.49	16.5866	630102.7618	620758.2499
61018	503+26.92	21.0209	630096.7669	620760.0792

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
61019	503+28.93	21.6043	630095.3068	620761.5826
61020	503+28.34	21.6075	630095.5797	620761.0627
61021	503+11.59	-22.6972	630142.5644	620767.0688
61022	503+11.00	-22.6982	630142.8403	620766.5518
61023	503+09.59	-22.1131	630142.9888	620765.0264
61024	503+04.05	-16.5850	630140.7059	620757.5447
61025	503+02.64	-16.0000	630140.8530	620756.0221
61026	502+88.43	-16.0000	630147.5246	620743.4745
61027	301+66.93	31.0000	630160.7688	620750.5166
61028	301+66.93	16.0000	630163.9643	620735.8609
61029	301+75.78	16.0000	630172.6113	620737.7463
61030	301+77.19	16.5795	630173.8634	620738.6124
61031	301+81.54	20.8902	630177.1948	620743.7508
61032	301+82.95	21.4697	630178.4496	620744.6175
61033	301+85.87	21.4657	630181.3028	620745.2354
61034	301+90.72	-13.0000	630193.3819	620712.5937
61035	301+83.52	-13.0000	630186.3456	620711.0595
61036	301+83.52	-28.0000	630189.5411	620696.4039
61037	502+27.14	-16.0000	630176.2969	620689.3618
61038	502+21.45	16.0000	630178.9689	620684.3365
61039	502+19.72	-17.0000	630180.6650	620683.2766
61040	502+17.13	-21.4785	630185.8331	620683.0962
61041	502+15.39	-22.4784	630187.5345	620682.0263
61042	502+09.80	-22.4469	630190.1297	620677.0781

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
60029	101+89.31	-15.5858	630253.6840	620596.0676
60030	101+93.27	-19.5437	630259.0367	620594.4311
60031	101+94.68	-20.1294	630260.5566	620594.5758
60032	101+95.29	-20.1308	630261.0983	620594.8623
60033	101+98.15	20.4495	630244.5709	620632.0345
60034	101+95.01	20.4549	630241.7976	620630.5660
60035	101+93.60	19.8691	630240.8209	620629.3832
60036	101+89.31	15.5858	630239.0498	620623.5904
60037	101+87.90	15.0000	630238.0762	620622.4093
60038	101+84.78	15.0000	630235.3253	620620.9466
60039	501+59.02	-36.0000	630225.9358	620638.6055
60040	501+59.02	-16.0000	630208.2769	620629.2161
60041	501+59.40	-16.0000	630208.0980	620629.5526
60042	501+60.82	-16.5858	630207.9513	620631.0763
60043	501+66.06	-21.8278	630210.1187	620638.1656
60044	501+67.49	-22.4135	630209.9643	620639.7037
60045	501+68.26	-22.4072	630209.5950	620640.3847
60080	101+99.14	20.1871	630245.5654	620632.2661
60081	101+99.54	19.9577	630246.0285	620632.2526
60082	102+00.53	19.6954	630247.0230	620632.4842
60083	102+01.44	19.6938	630247.8239	620632.9083

PREPARED BY THE CONSULTING FIRM OF McCormick Taylor
Engineers & Planners Since 1946

SEAL

RECOMMENDED 8/28/2013 DATE

GG-01

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 20 40 60 FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY		
NEW CASTLE	CHECKED BY: JMH	

GRADES AND GEOMETRICS

SHEET NO.

TOTAL SHTS.

8/29/2013
...\GG001_SOUTHBRIDGE.dgn

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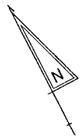
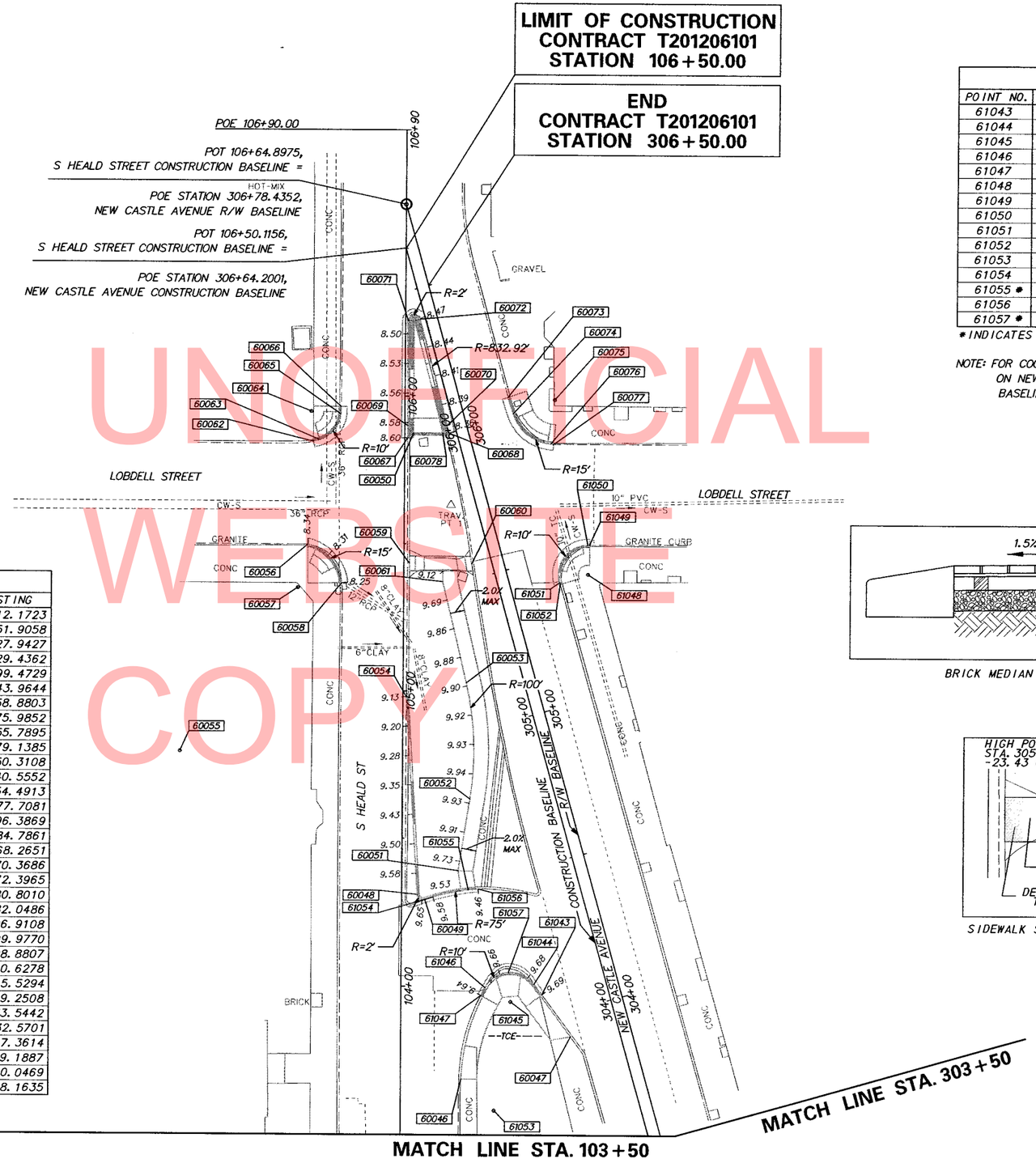
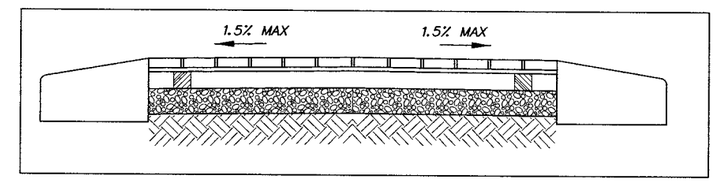




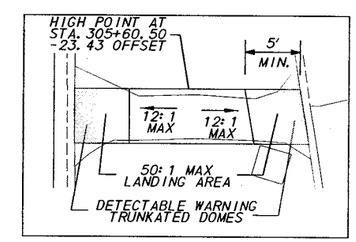
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
61043	304+07.87	-22.1798	630407.5074	620749.8851
61044	304+12.04	-23.8039	630411.9279	620749.1867
61045	304+08.41	-33.1222	630410.3673	620739.3092
61046	304+15.34	-40.3290	630418.6761	620733.7447
61047	304+13.22	-42.3721	630417.0362	620731.2960
61048	305+41.06	30.6002	630526.3988	620829.8276
61049	305+50.56	33.7808	630535.0052	620834.9595
61050	305+50.73	33.1651	630535.2960	620834.3927
61051	305+40.95	20.6008	630528.4229	620820.0346
61052	305+40.39	20.6068	630527.8762	620819.9216
61053	303+74.60	-48.3803	630380.5890	620717.1999
61054	304+49.60	-49.2957	630454.0570	620732.2816
61055 *	304+48.74	-37.0539	630450.6141	620744.0604
61056	304+48.16	-33.7306	630449.3351	620747.1829
61057 *	304+18.21	-31.1618	630419.5306	620743.3136

* INDICATES CENTER OF CURB RAMP

NOTE: FOR COORDINATE STATION AND OFFSET ON NEW CASTLE AVENUE CONSTRUCTION BASELINE IS BEING USED.



BRICK MEDIAN SLOPE DETAIL STA. 106+00 RT
N. T. S.



SIDEWALK SLOPE DETAIL STA. 105+43 RT
N. T. S.

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
60046	103+68.84	20.4553	630395.2757	620712.1723
60047	303+91.98	-16.5823	630390.4992	620751.9058
60048	104+31.08	5.2203	630457.3869	620727.9427
60049	104+29.31	7.8548	630454.5841	620729.4362
60050	105+87.62	3.0000	630596.6451	620799.4729
60051	304+55.93	-38.7181	630457.9860	620743.9644
60052	304+78.36	-28.3436	630477.6972	620758.8803
60053	305+16.62	-19.1788	630513.1257	620775.9852
60054	104+98.09	1.1286	630518.4748	620755.7895
60055	104+79.38	-75.7355	630538.0399	620679.1385
60056	105+49.72	-32.5247	630579.8542	620750.3108
60057	105+35.08	-35.7891	630568.4600	620740.5552
60058	105+36.72	-20.8795	630562.9116	620754.4913
60059 *	105+43.34	1.8950	630558.0653	620777.7081
60060 *	305+55.17	-6.7031	630548.1336	620796.3869
60061	305+51.92	-17.8679	630547.3366	620784.7861
60062	105+84.63	-30.7517	630609.8447	620768.2651
60063	105+85.23	-28.6900	630609.4091	620770.3686
60064	105+94.83	-31.4966	630619.2013	620772.3965
60065	105+93.98	-21.5284	630613.7752	620780.8010
60066	105+96.50	-21.4554	630615.9660	620782.0486
60067	105+85.93	1.0000	630596.0866	620796.9108
60068	306+00.01	-2.5695	630591.0599	620809.9770
60069 *	105+90.12	1.0000	630599.7914	620798.8807
60070 *	306+02.58	-2.4632	630593.5453	620810.6278
60071	106+25.59	1.0000	630631.1031	620815.5294
60072	306+39.78	-1.7496	630629.7445	620819.2508
60073	306+06.31	20.1782	630592.3675	620833.5442
60074	306+00.45	20.4575	630586.5883	620832.5701
60075	306+01.17	35.4404	630584.0950	620847.3614
60076	305+87.14	30.1348	630571.5170	620839.1887
60077	305+86.78	31.0921	630570.9593	620840.0469
60078	306+00.56	-4.5469	630592.0242	620808.1635

* INDICATES CENTER OF CURB RAMP

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RECOMMENDED 8/28/2013 DATE

GG-02

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 20 40 60
FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

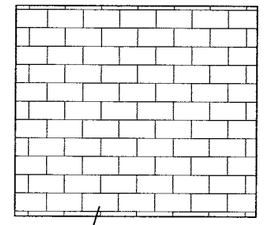
CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY		
NEW CASTLE	CHECKED BY: JMH	

GRADES AND GEOMETRICS

SHEET NO.

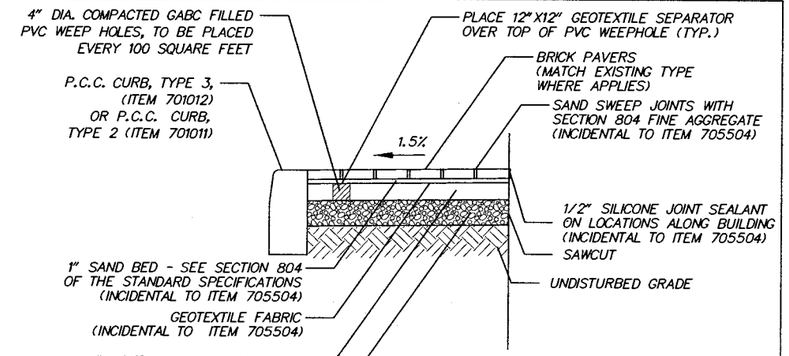
TOTAL SHTS.

8/28/2013
...\GG002_SOUTHBRIDGE.dgn



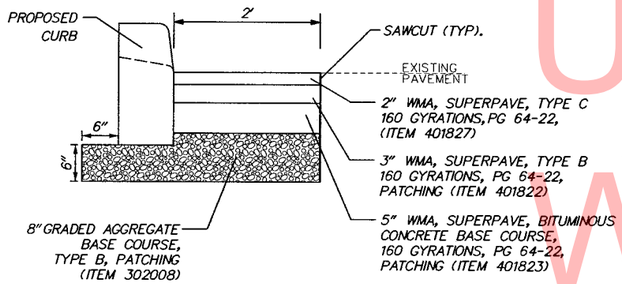
SIDEWALK BRICK PATTERN

NOTE: WHERE PROPOSED BRICK SIDEWALK TIES INTO EXISTING BRICK SIDEWALK CONTRACTOR SHALL BLEND EXISTING BRICKS WITH PROPOSED BRICK TO TRANSITION THE TWO SECTIONS, AS DIRECTED BY THE ENGINEER. COST IS INCIDENTAL TO 705504- BRICK AND/OR BLOCK SIDEWALK.

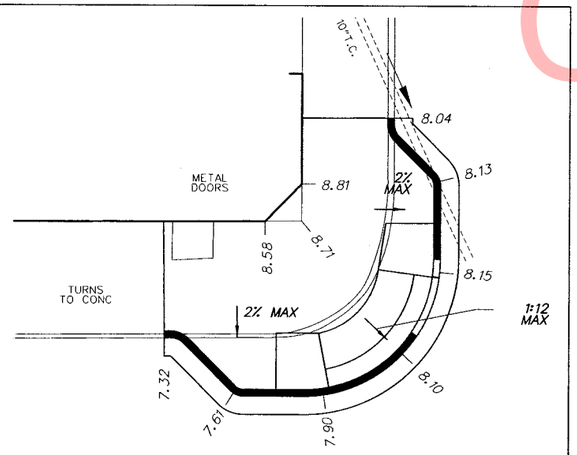


NOTE: PLACE GEOTEXTILE FABRIC AT ALL CURB EXPANSION JOINTS TO PREVENT LOSS OF SAND BED. GEOTEXTILE FABRIC COST INCIDENTAL TO THE COST OF ITEM 705504.

BRICK AND/OR BLOCK SIDEWALK DETAIL (ITEM 705504)

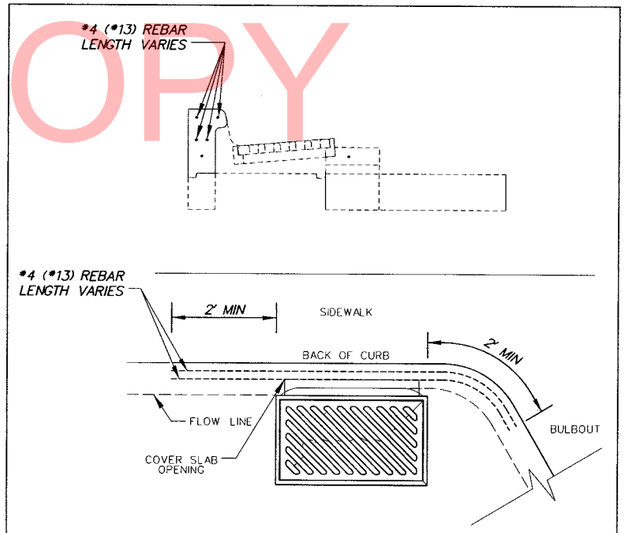


PATCH DETAIL



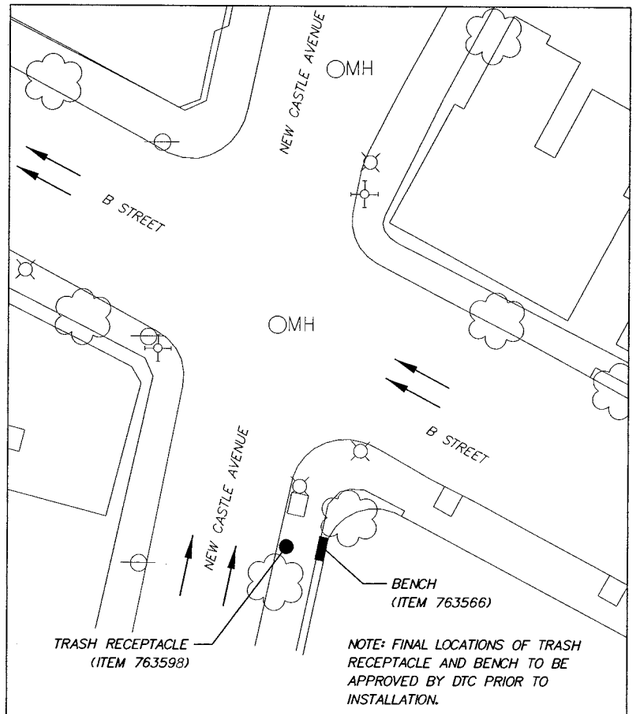
NW BULBOUT DETAIL

STA. 500+87.50 OFFSET 16.00' LEFT



CURB HOOD DETAIL

STA. 101+14 OFFSET 20.00' LEFT & RIGHT



NOTE: FINAL LOCATIONS OF TRASH RECEPTACLE AND BENCH TO BE APPROVED BY DTC PRIOR TO INSTALLATION.

BUS STOP AT B STREET

STA. 295+80 RIGHT

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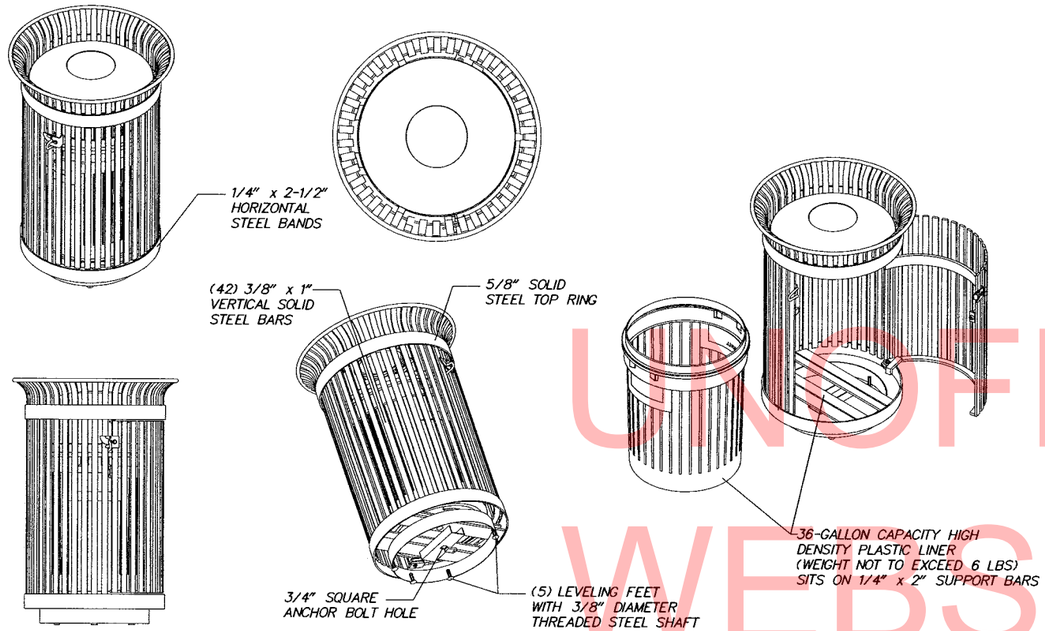
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	PAVEMENT & REHABILITATION - NORTH I, 2012	CONTRACT T201206101	BRIDGE NO. N/A	CONSTRUCTION DETAILS	SHEET NO.
				COUNTY NEW CASTLE	DESIGNED BY: LB		TOTAL SHTS.
					CHECKED BY: JMH		

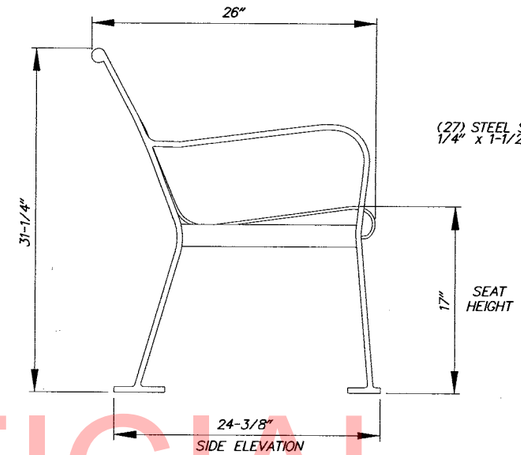
8/29/2013
...\DT001_SOUTHBRIDGE.dgn



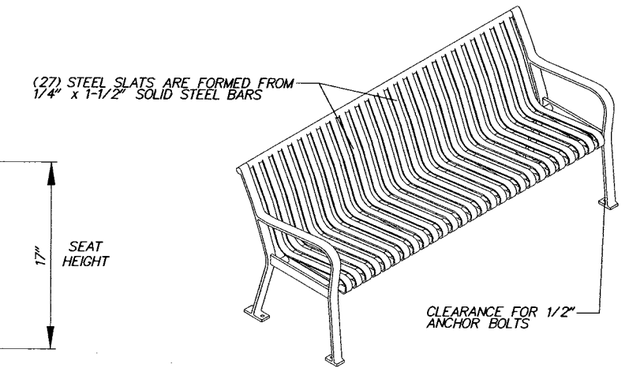
NOTE: COLOR TO BE BLACK

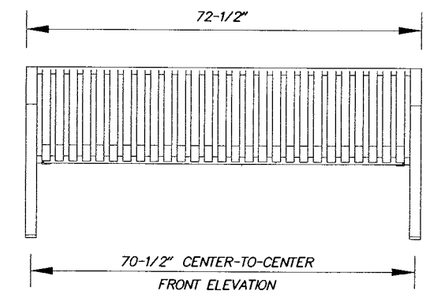
TRASH RECEPTACLE DETAIL – ITEM 763598

NOT TO SCALE



SIDE ELEVATION

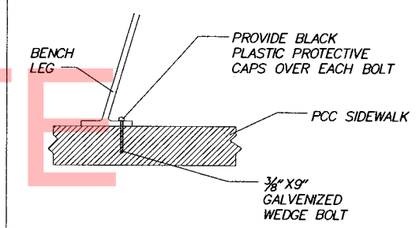




FRONT ELEVATION

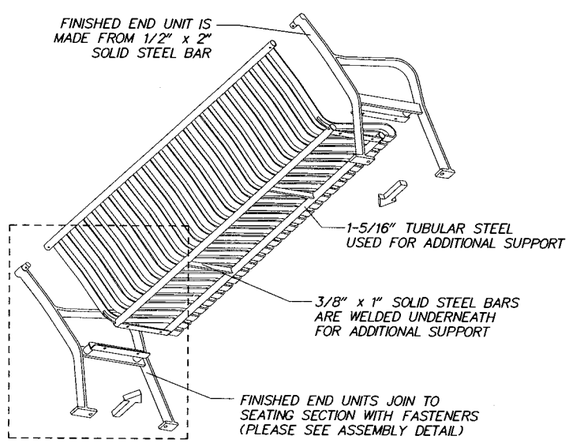
NOTE: COLOR TO BE BLACK

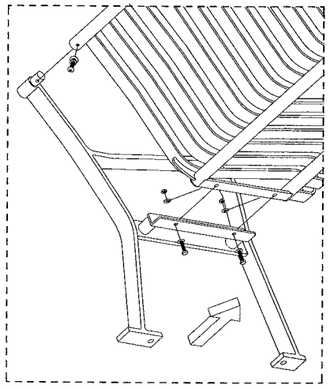
NOTE:
TYPICAL OF FOUR LEGS PER BENCH. DO NOT LOCATE WEDGE BOLTS UNTIL BENCH IS IN PLACE.



MOUNTING DETAIL

ASSEMBLEY DETAIL





BENCH DETAIL – ITEM 763566

NOT TO SCALE

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DT-02

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	PAVEMENT & REHABILITATION – NORTH I, 2012	CONTRACT T201206101	BRIDGE NO. N/A	CONSTRUCTION DETAILS	SHEET NO.
				COUNTY NEW CASTLE	DESIGNED BY: LB		TOTAL SHTS.
					CHECKED BY: JMH		

8/29/2013
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LIGHTING LEGEND

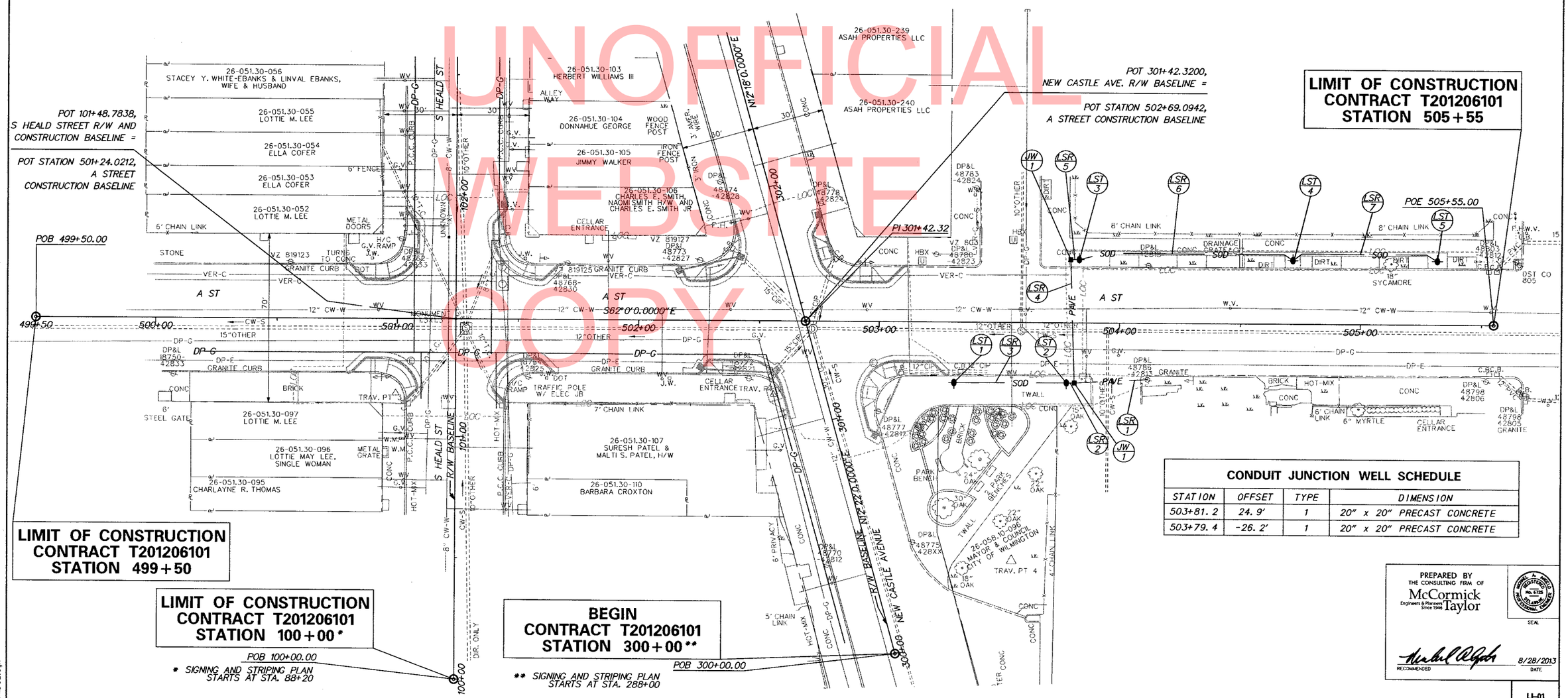
SYMBOL	ITEM
SOD	GALVANIZED CONDUIT UNDER NEW PAVEMENT OR IN SODDED TRENCH, 2.5"
PAVE	GALVANIZED CONDUIT UNDER EXISTING PAVEMENT, 2.5"
■	CONDUIT JUNCTION WELL
◆	LIGHT STANDARD WITH LUMINAIRE
■	LIGHTING CONTROL CENTER - 100A
JW 1	PROPOSED CONDUIT JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
LST #	PROPOSED LIGHT STANDARD IDENTIFIER (LIGHT STANDARD #)
LSR #	PROPOSED LIGHTING CONDUIT RUN IDENTIFIER (LIGHTING CONDUIT RUN #)
LC #	PROPOSED LIGHTING CONTROL CENTER - 100A (LIGHTING CONTROL CENTER #)

DECORATIVE LIGHT STANDARDS & ORNAMENTAL POLE BASE SCHEDULE

NO.	CKT ID	STATION	OFFSET	LUMINAIRE ORIENTATION	PHOTOCELL CONTROL
LST-1	A1	503+31.0	25.1'	PERP. TO CURB	YES
LST-2	B1	503+77.9	24.9'	PERP. TO CURB	YES
LST-3	A2	503+83.0	-26.2'	PERP. TO CURB	YES
LST-4	B2	504+71.8	-26.4'	PERP. TO CURB	YES
LST-5	A3	505+31.8	-26.4'	PERP. TO CURB	YES

CONDUIT & CONDUCTOR RUN SCHEDULE

CONDUIT RUN #	FROM	TO	2.5" GALV. CONDUIT (FT)	#6 AWG CONDUCTOR (FT)	#6 AWG GROUNDING CONDUCTOR (FT)
LSR-1	DP&L POLE	JW-1	31	102	34
LSR-2	JW-1	LST-2 (B1)	3	10	3
LSR-3	LST-2	LST-1 (A1)	47	103	52
LSR-4	JW-1	JW-1	51	168	56
LSR-5	JW-1	LST-3 (A2)	4	13	4
LSR-6	LST-3	LST-4 (B2)	89	294	98
LSR-7	LST-4	LST-5 (A3)	62	136	68
TOTAL			287	826	315



CONDUIT JUNCTION WELL SCHEDULE

STATION	OFFSET	TYPE	DIMENSION
503+81.2	24.9'	1	20" x 20" PRECAST CONCRETE
503+79.4	-26.2'	1	20" x 20" PRECAST CONCRETE

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 20 40 60 FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

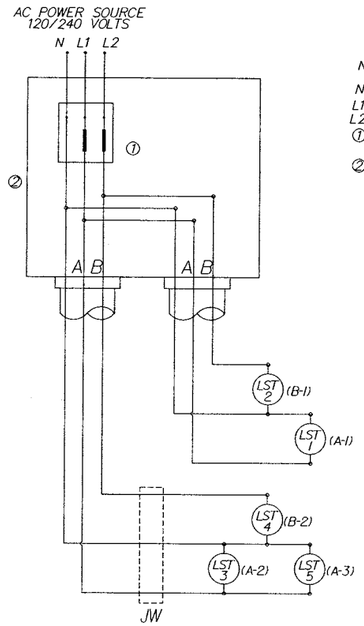
CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY		
NEW CASTLE	CHECKED BY: JMH	

LIGHTING PLAN

SHEET NO.

TOTAL SHTS.

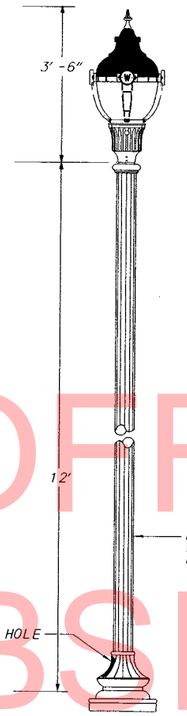
8/29/2013
...\LI001_SOUTHBRIDGE.dgn



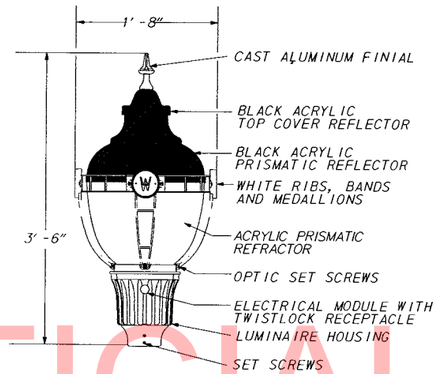
NOTES:

N - NEUTRAL
L1 - LINE 1
L2 - LINE 2
① - WEATHERPROOF CONDULET WITH FUSE CONNECTOR KITS
② - FIRST JUNCTION WELL FROM UTILITY POLE

SIDEWALK LIGHTING ELECTRICAL SCHEMATIC



LIGHTING STANDARD



LUMINAIRE DETAILS

NOTES:

1. CONSTRUCTION DETAILS NOT SHOWN ON THE DRAWINGS ARE TO CONFORM TO THE DELDOT STANDARDS.
2. THE STANDARD SPECIFICATIONS FOR THIS PROJECT ARE DELDOT SPECIFICATIONS.
3. PROVIDE SERVICE DISCONNECT AND CONDUIT RISER IN ACCORDANCE WITH DELMARVA POWER'S REQUIREMENTS.
4. PROVIDE WATERTIGHT, SUBMERSIBLE, PREMOLDED, DISCONNECTIBLE, CONNECTOR KITS FOR ALL SPLICES.
5. PROVIDE INDIVIDUAL FUSING FOR ALL LUMINAIRES.
6. DURING CONSTRUCTION, ALL ELECTRICAL SYSTEMS INCLUDING WIRES AND CONNECTIONS TO BE PROTECTED IN A MANNER THAT ENSURES THE SAFETY OF WORKERS AND THE GENERAL PUBLIC.
7. PRIOR TO CLOSING ANY LANES, THE CONTRACTOR WITHIN THE PROJECT LIMITS SHALL PERFORM AN INSPECTION OF THE EXISTING LIGHTING SYSTEM TO INSURE PROPER FUNCTIONING OF THE SYSTEM.
8. USE #6 AWG WIRE FOR ALL CIRCUITS UNLESS INDICATED IN THE PLANS OR BY THE ENGINEER. PROVIDE #6 AWG GREEN NEUTRAL WIRE TO TERMINATE AT EACH LUMINAIRE.
9. THE SERVICE SHALL BE PROVIDED FROM DELMARVA UTILITY POLE, DP&L #48786-42813, SHOWN ON THE PLAN.
10. THE CONTRACTOR SHALL PROVIDE FOUR SETS OF RED-LINED AS-BUILT PLANS TO THE ENGINEER SHOWING OFFSETS AND DEPTH OF THE CONDUIT FROM THE CONETERLINE OF THE ROAD. WORK SHALL BE INCIDENTAL TO LIGHTING ITEM(S).

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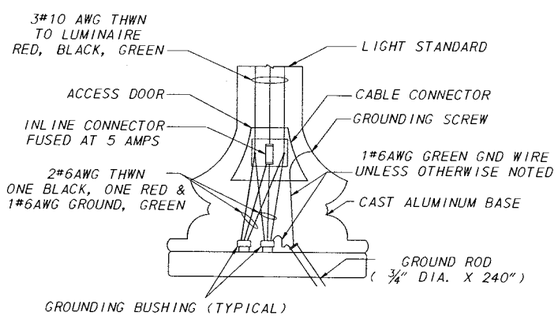
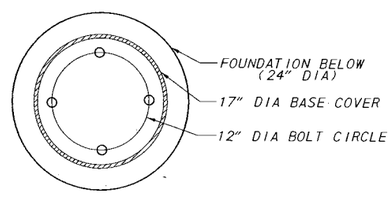
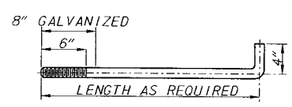


NOTE: ALL LIGHTING STANDARD SHALL BE INSTALLED ON DELDOT STANDARD POLE BASE, TYPE 6.

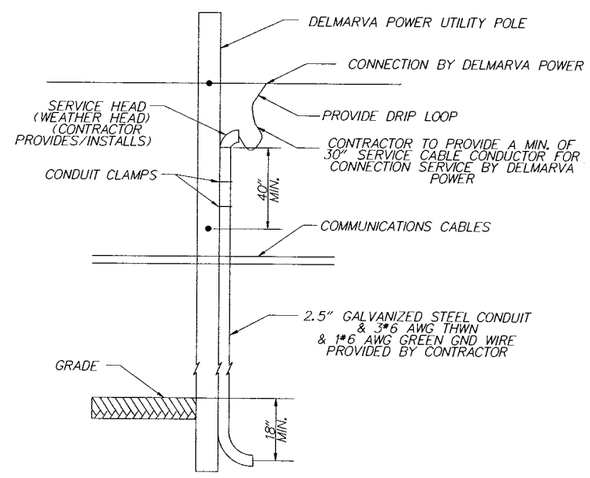
TYPICAL LUMINAIRE CONNECTION



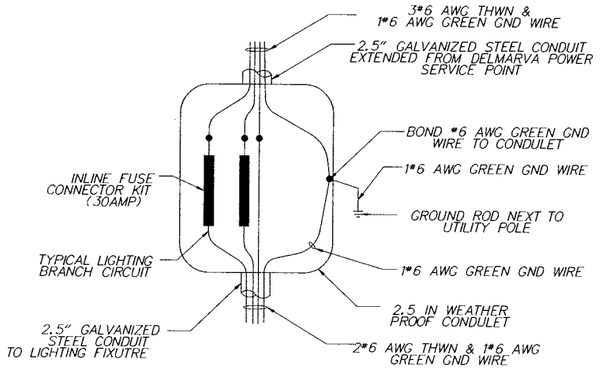
POLE BASE PLAN



ANCHOR BOLT DETAIL



POLE SERVICE DETAIL



WEATHERPROOF CONDULET DETAIL (POWER BRANCH CIRCUIT)

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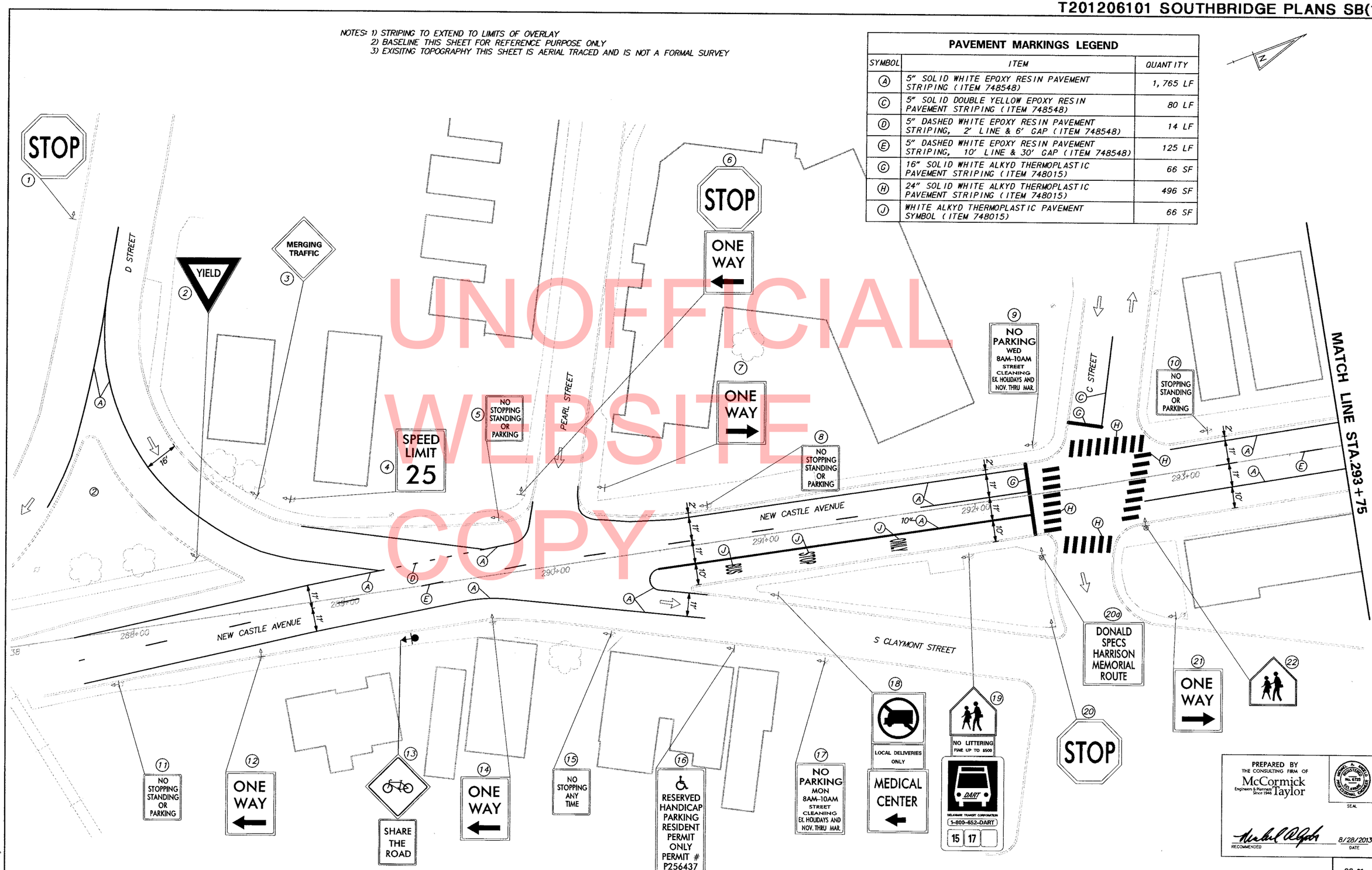
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	PAVEMENT & REHABILITATION - NORTH 1, 2012	CONTRACT T201206101	BRIDGE NO. N/A	LIGHTING PLAN	SHEET NO.
				COUNTY NEW CASTLE	DESIGNED BY: LB		TOTAL SHTS.
					CHECKED BY: JMH		

8/29/2013
...\LI002_SOUTHBRIDGE.dgn

NOTES: 1) STRIPING TO EXTEND TO LIMITS OF OVERLAY
2) BASELINE THIS SHEET FOR REFERENCE PURPOSE ONLY
3) EXISITNG TOPOGRAPHY THIS SHEET IS AERIAL TRACED AND IS NOT A FORMAL SURVEY

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
A	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1,765 LF
C	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	80 LF
D	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP (ITEM 748548)	14 LF
E	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	125 LF
G	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	66 SF
H	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	496 SF
J	WHITE ALKYD THERMOPLASTIC PAVEMENT SYMBOL (ITEM 748015)	66 SF



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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 20 40 60 FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY		
NEW CASTLE	CHECKED BY: JMH	

SIGNING, STRIPING AND CONDUIT PLAN

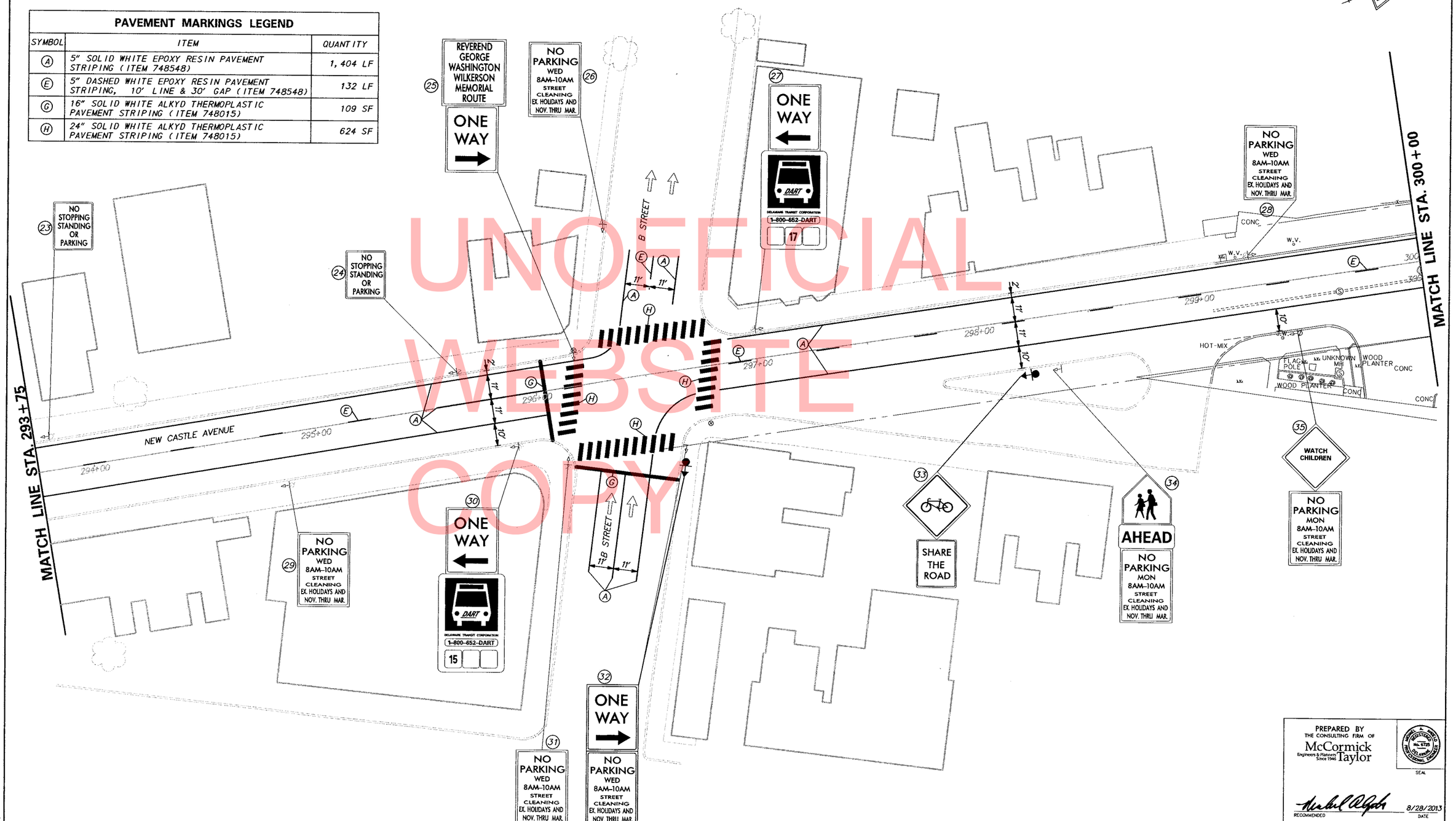
SHEET NO.

TOTAL SHTS.

8/29/2013
...\Final Plans\SS001.dgn

NOTES: 1) STRIPING TO EXTEND TO LIMITS OF OVERLAY
2) BASELINE THIS SHEET FOR REFERENCE PURPOSE ONLY
3) EXISITNG TOPOGRAPHY THIS SHEET IS AERIAL TRACED AND IS NOT A FORMAL SURVEY

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
A	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1,404 LF
E	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	132 LF
G	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	109 SF
H	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	624 SF



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RECOMMENDED 8/28/2013 DATE

SS-02

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 20 40 60 FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

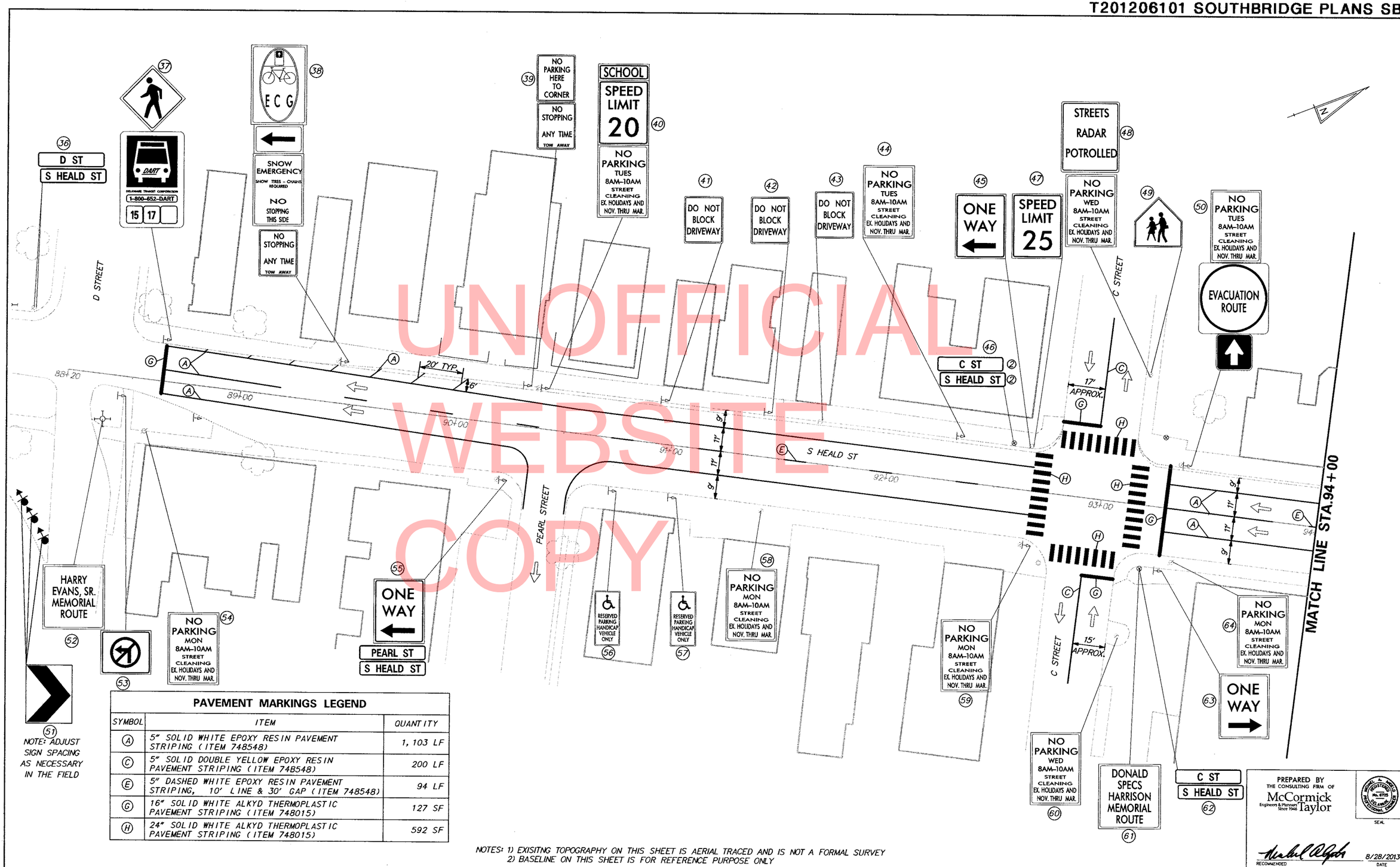
CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY		
NEW CASTLE	CHECKED BY: JMH	

SIGNING, STRIPING AND CONDUIT PLAN

SHEET NO.

TOTAL SHTS.

8/29/2013
...\Final Plans\SS002.dgn



PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
A	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1,103 LF
C	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	200 LF
E	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	94 LF
G	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	127 SF
H	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	592 SF

NOTES: 1) EXISITNG TOPOGRAPHY ON THIS SHEET IS AERIAL TRACED AND IS NOT A FORMAL SURVEY
2) BASELINE ON THIS SHEET IS FOR REFERENCE PURPOSE ONLY

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ADDENDUMS / REVISIONS

SCALE 0 20 40 60 FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY		
NEW CASTLE	CHECKED BY: JMH	

SIGNING, STRIPING AND CONDUIT PLAN

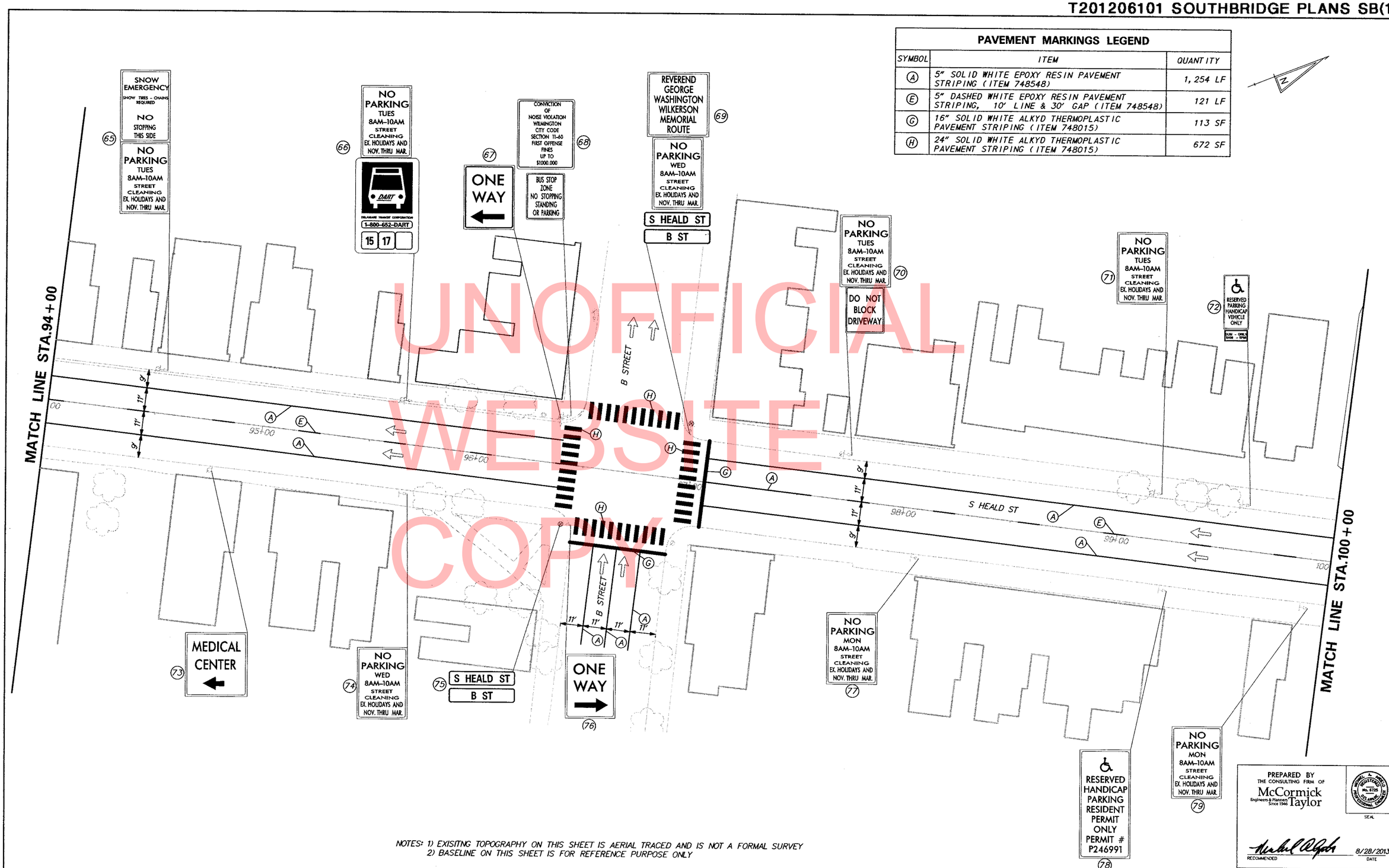
SS-03

SHEET NO.

TOTAL SHTS.

8/29/2013
...\Final Plans\SS003.dgn

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1,254 LF
(E)	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	121 LF
(G)	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	113 SF
(H)	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	672 SF



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NOTES: 1) EXISITNG TOPOGRAPHY ON THIS SHEET IS AERIAL TRACED AND IS NOT A FORMAL SURVEY
2) BASELINE ON THIS SHEET IS FOR REFERENCE PURPOSE ONLY

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SEAL

RECOMMENDED 8/28/2013 DATE

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 20 40 60 FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY		
NEW CASTLE	CHECKED BY: JMH	

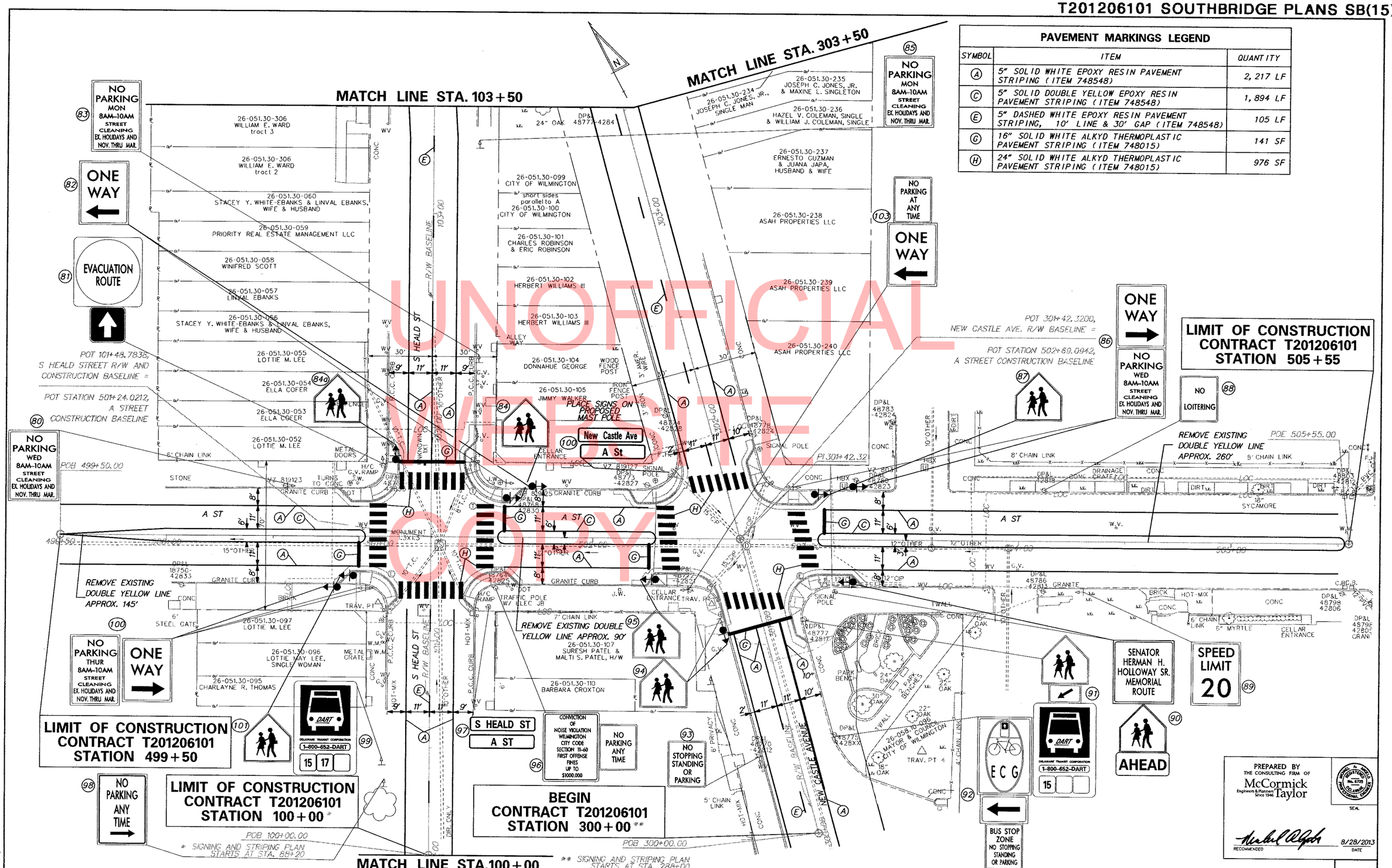
SIGNING, STRIPING AND CONDUIT PLAN

SS-04

SHEET NO.

TOTAL SHTS.

8/29/2013
...\Final Plans\SS004.dgn



PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
A	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	2,217 LF
C	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1,894 LF
E	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	105 LF
G	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	141 SF
H	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	976 SF

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 20 40 60 FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

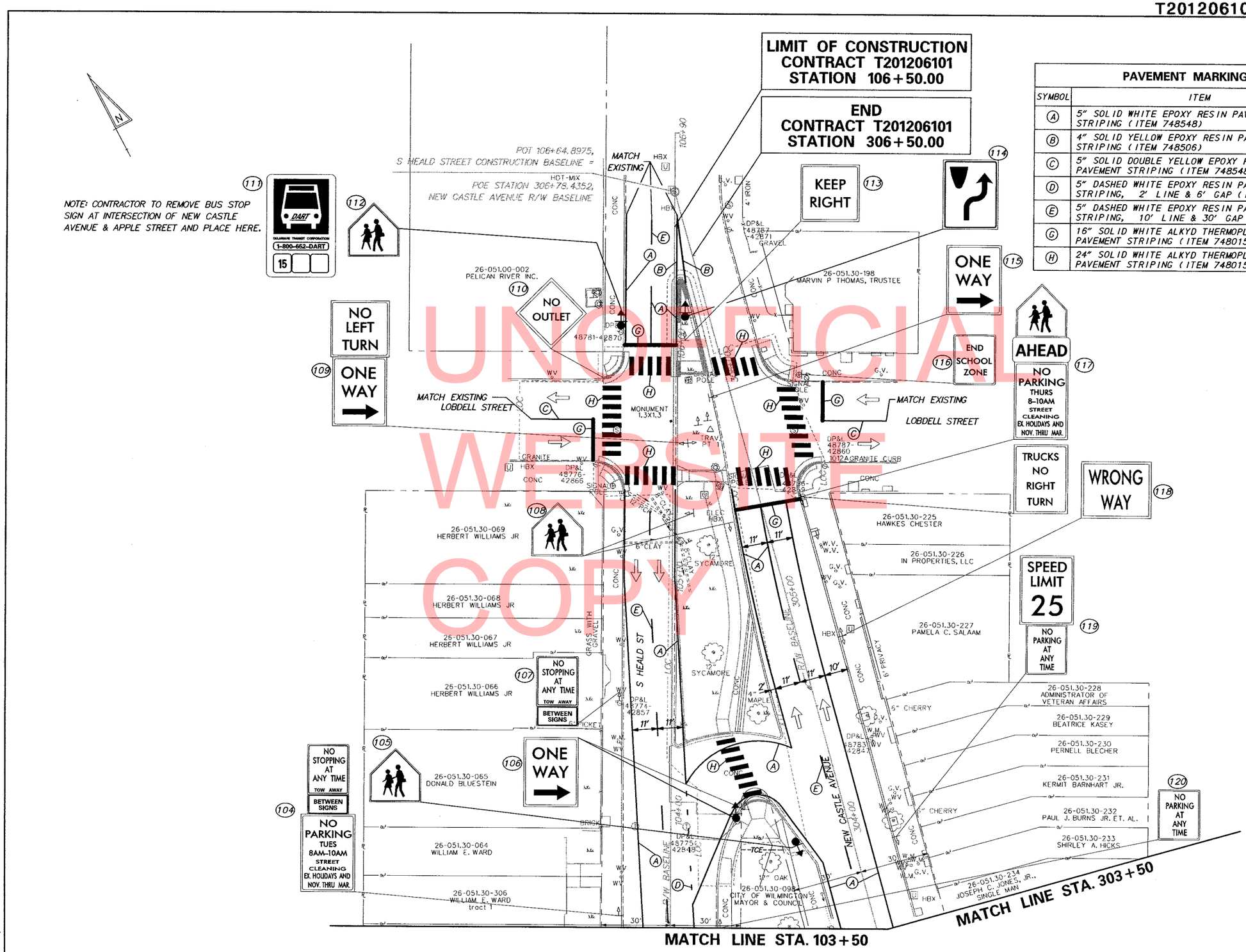
CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY	CHECKED BY: JMH	
NEW CASTLE		

SIGNING, STRIPING AND CONDUIT PLAN

SHEET NO. SS-05

TOTAL SHTS.

8/29/2013
...\Final Plans\SS005.dgn



PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
A	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	962 LF
B	4" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748506)	59 LF
C	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	110 LF
D	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP (ITEM 748548)	13 LF
E	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	89 LF
G	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	110 SF
H	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	816 SF

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RECOMMENDED 8/28/2013 DATE

SS-06

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 20 40 60 FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY		
NEW CASTLE	CHECKED BY: JMH	

SIGNING, STRIPING AND CONDUIT PLAN

SHEET NO.

TOTAL SHTS.

8/29/2013
...\Final Plans\SS006.dgn

PERMANENT SIGN SCHEDULE

SHEET NO.	NO.	CODE	DESCRIPTION	QUANTITY	SIGN HEIGHT (IN)	SIGN WIDTH (IN)	SIGN AREA (SF)	SIGN DISPOSITION	ITEM 749687 SINGLE POST EACH		ITEM 749690 MULTI-POST (SF)		ITEM 749688 4" HOLE, 0-6" (EACH)	ITEM 749689 4" HOLE, >6" (EACH)	REMARKS
									REMOVE	INSTALL	REMOVE	INSTALL			
SS-01	1	R1-1	STOP	1				REMAIN							
	2	R1-2	YIELD	1				REMAIN							
	3	SPECIAL	MERGING TRAFFIC	1				REMAIN							
	4	R2-1-25	SPEED LIMIT (25 MPH)	1				REMAIN							
	5	R7-4-DE	NO STOPPING, STANDING, OR PARKING	1				REMAIN							
	6	R1-1	STOP	1				REMAIN							
	6	R6-2_L	ONE WAY (LEFT ARROW)	1				REMAIN							
	7	R6-2_R	ONE WAY (RIGHT ARROW)	1				REMAIN							
	8	R7-4-DE	NO STOPPING, STANDING, OR PARKING	1				REMAIN							
	9	SPECIAL	NO PARKING, WED 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	10	R7-4-DE	NO STOPPING, STANDING, OR PARKING	1				REMAIN							
	11	R7-4-DE	NO STOPPING, STANDING, OR PARKING	1				REMAIN							
	12	R6-2_L	ONE WAY (LEFT ARROW)	1				REMAIN							
	13	W11-1(36)	BICYCLE (Symbol) - 36x36	1	36"	36"	9	NEW		1					
	13	W16-1P(24)	SHARE THE ROAD (plaque) - 24x30	1	24"	30"	5	NEW		1					
	14	R6-2_L	ONE WAY (LEFT ARROW)	1				REMAIN							
	15	SPECIAL	NO STOPPING ANY TIME	1				REMAIN							
	16	SPECIAL	RESERVED HANDICAP PARKING RESIDENT	1				REMAIN							
			PERMIT ONLY PERMIT# P256437	1				REMAIN							
	17	SPECIAL	NO PARKING, MON 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	18	R5-2	NO TRUCKS (Symbol)	1				REMAIN							
	18	SPECIAL	LOCAL DELIVERIES ONLY	1				REMAIN							
	18	SPECIAL	MEDICAL CENTER (LEFT ARROW)	1				REMAIN							
	19	S1-1(36)	SCHOOL SIGN (Symbol) - 36x36	1				REPOSITION	1	1					
	19	SPECIAL	NO LITTERING, FINE UP TO $500	1				REMAIN							
	19	D4-3-DE	BUS STOP (DART)	1				REMAIN							
	20	R1-1	STOP	1				REMAIN							
	20A	SPEACIAL	DONALD SPECS HARRISON MEMORIAL ROUTE	1				REMAIN							
	21	R6-2_R	ONE WAY (RIGHT ARROW)	1				REMAIN							
	22	S1-1(36)	SCHOOL SIGN (Symbol) - 36x36	1	36"	36"	9	NEW		1					
SS-02	23	R7-4-DE	NO STOPPING, STANDING, OR PARKING	1				REMAIN							
	24	R7-4-DE	NO STOPPING, STANDING, OR PARKING	1				REMAIN							
	25	SPECIAL	REVEREND GEORGE WASHINGTON WILKERSON	1				REMAIN							
			MEMORIAL ROUTE	1				REMAIN							
	25	R6-2_R	ONE WAY (RIGHT ARROW)	1				REMAIN							
	26	SPECIAL	NO PARKING, WED 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	27	R6-2_L	ONE WAY (LEFT ARROW)	1				REMAIN							
	27	D4-3-DE	BUS STOP (DART)	1				REMAIN							
	28	SPECIAL	NO PARKING, WED 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	29	SPECIAL	NO PARKING, WED 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	30	R6-2_L	ONE WAY (LEFT ARROW)	1				REMAIN							
	30	D4-3-DE	BUS STOP (DART)	1				REMAIN							

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RECOMMENDED 8/28/2013 DATE

SS-07

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT T201206101 | COUNTY NEW CASTLE | BRIDGE NO. N/A | DESIGNED BY: LB | CHECKED BY: JMH

SIGNING, STRIPING AND CONDUIT PLAN

SHEET NO. | TOTAL SHTS.

8/29/2013
...\FinalPlans\SS007.dgn

PERMANENT SIGN SCHEDULE

SHEET NO.	NO.	CODE	DESCRIPTION	QUANTITY	SIGN HEIGHT (IN)	SIGN WIDTH (IN)	SIGN AREA (SF)	SIGN DISPOSITION	ITEM 749687 SINGLE POST EACH		ITEM 749690 MULTI-POST (SF)		ITEM 749688 4" HOLE, 0-6" (EACH)	ITEM 749689 4" HOLE, >6" (EACH)	REMARKS
									REMOVE	INSTALL	REMOVE	INSTALL			
SS-02	31	SPECIAL	NO PARKING, WED 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	32	R6-2_R	ONE WAY (RIGHT ARROW)	1				REPOSITION	1	1					
	32	SPECIAL	NO PARKING, WED 8AM-10AM STREET CLEANING	1				REPOSITION	1	1					
	32		EX. HOLIDAYS AND NOV. THRU MAR.												
	33	W11-1(36)	BICYCLE (Symbol) - 36x36	1	36"	36"	9	NEW		1					
	33	W16-1P(24)	SHARE THE ROAD (plaque) - 24x30	1	24"	30"	5	NEW		1					
	34	S1-1	SCHOOL SIGN (Symbol)	1				REMAIN							
	34	W16-9P	AHEAD (plaque)	1				REMAIN							
	34		NO PARKING, MON 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	35	SPECIAL	WATCH CHILDREN	1				REMAIN							
	35		NO PARKING, MON 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
SS-03	36	D3-1(9)	D ST	1				REMAIN							
	36	D3-1(9)	S HEALD ST	1				REMAIN							
	37	W11-2	PEDESTRIAN (Symbol)	1				REMAIN							
	37	D4-3-DE	BUS STOP (DART)	1				REMAIN							
	38	M1-8-DE	BIKE ROUTE	1				REMAIN							
	38	SPECIAL	SNOW EMERGENCY SNOW TIRES CHAINS	1				REMAIN							
	38		REQUIRED NO STOPPING THIS SIDE					REMAIN							
	38	SPECIAL	NO STOPPING STANDING ANY TIME TOW AWAY	1				REMAIN							
	39	SPECIAL	NO PARKING HERE TO CORNER	1				REMAIN							
	39	SPECIAL	NO STOPPING ANY TIME TOW AWAY	1				REMAIN							
	40	S4-3P	SCHOOL	1				REMAIN							
	40	R2-1-25	SPEED LIMIT (25 MPH)	1				REMAIN							
	40	SPECIAL	NO PARKING, TUES 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	41	R10-7-DE	DO NOT BLOCK DRIVEWAY	1				REMAIN							
	42	R10-7-DE	DO NOT BLOCK DRIVEWAY	1				REMAIN							
	43	R10-7-DE	DO NOT BLOCK DRIVEWAY	1				REMAIN							
	44	SPECIAL	NO PARKING, TUES 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	45	R6-2_L	ONE WAY (LEFT ARROW)	1				REMAIN							
	46	D3-1(9)	C ST	1				REMAIN							
	46	D3-1(9)	S HEALD ST	1				REMAIN							
	47	R2-1-25	SPEED LIMIT (25 MPH)	1				REMAIN							
	48	SPECIAL	STREETS RADAR PATROLLED	1				REMAIN							
	48	SPECIAL	NO PARKING, WED 8AM-10AM STREET CLEANING	1				REMAIN							
	48		EX. HOLIDAYS AND NOV. THRU MAR.												

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RECOMMENDED 8/28/2013 DATE

SS-08

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY		
NEW CASTLE	CHECKED BY: JMH	

SIGNING, STRIPING AND CONDUIT PLAN

SHEET NO.

TOTAL SHTS.

8/29/2013
...\FinalPlans\SS008.dgn

PERMANENT SIGN SCHEDULE

SHEET NO.	NO.	CODE	DESCRIPTION	QUANTITY	SIGN HEIGHT (IN)	SIGN WIDTH (IN)	SIGN AREA (SF)	SIGN DISPOSITION	ITEM 749687 SINGLE POST EACH		ITEM 749690 MULTI-POST (SF)		ITEM 749688 4" HOLE, 0-6" (EACH)	ITEM 749689 4" HOLE, >6" (EACH)	REMARKS
									REMOVE	INSTALL	REMOVE	INSTALL			
SS-03	49	S1-1	SCHOOL SIGN (Symbol)	1				REMAIN							
	50	SPECIAL	NO PARKING, TUES 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	50	EM-1-DE	EVACUATION ROUTE	1				REMAIN							
	50	EM-1p-DE	ARROW (PLATE)	1				REMAIN							
	51	W1-8(18)	CHEVRON ALIGNMENT - 18x24	3	18"	24"	3	NEW		3					
	52	SPECIAL	HARRY EVANS, SR MEMORIAL ROUTE	1				REMAIN							
	53	R3-2	LEFT TURN PROHIBITION (Symbol)	1				REMAIN							
	54		NO PARKING, MON 8AM-10AM STREET CLEANING	1				REMAIN							
	54		EX. HOLIDAYS AND NOV. THRU MAR.					REMAIN							
	55	D3-1(9)	PEARL ST	1				REMAIN							
	55	D3-1(9)	S HEALD ST	1				REMAIN							
	55	R6-2_L	ONE WAY (LEFT ARROW)	1				REMAIN							
	56	SPECIAL	RESERVED PARKING HANDICAP VEHILCE ONLY	1				REMAIN							
	57	SPECIAL	RESERVED PARKING HANDICAP VEHILCE ONLY	1				REMAIN							
	58	SPECIAL	NO PARKING, MON 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	59	SPECIAL	NO PARKING, MON 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	60	SPECIAL	NO PARKING, WED 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	61	SPECIAL	DONALD SPECS HARRISON MEMORIAL ROUTE	1				REMAIN							
	62	D3-1(9)	C ST	1				REMAIN							
	62	D3-1(9)	S HEALD ST	1				REMAIN							
	63	R6-2_R	ONE WAY (RIGHT ARROW)	1				REMAIN							
	64		NO PARKING, MON 8AM-10AM STREET CLEANING	1				REMAIN							
	64		EX. HOLIDAYS AND NOV. THRU MAR.												
SS-04	65		SNOW EMERGENCY SNOW TIRES CHAINS	1				REMAIN							
			REQUIRED NO STOPPING THIS SIDE					REMAIN							
	65		NO PARKING, TUES 8AM-10AM STREET CLEANING	1				REMAIN							
	65		EX. HOLIDAYS AND NOV. THRU MAR.												
	66		NO PARKING, TUES 8AM-10AM STREET CLEANING	1				REMAIN							
	66		EX. HOLIDAYS AND NOV. THRU MAR.												
	66	D4-3-DE	BUS STOP (DART)	1				REMAIN							
	67	R6-2_L	ONE WAY (LEFT ARROW)	1				REMAIN							
	68	SPECIAL	CONVICTION OF NOISE VIOLATION WILMINGTON	1				REMAIN							
	68		CITY CODE SECTION 11-60 FIRST OFFENCE FINES	1				REMAIN							
	68		UP TO $1000.00	1				REMAIN							
	68	SPECIAL	BUS STOP ZONE	1				REMAIN							
	68		NO STOPPING STANDING OR PARKING	1				REMAIN							

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RECOMMENDED 8/28/2013 DATE

SS-09

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT T201206101 | COUNTY NEW CASTLE | BRIDGE NO. N/A | DESIGNED BY: LB | CHECKED BY: JMH

SIGNING, STRIPING AND CONDUIT PLAN

SHEET NO. | TOTAL SHTS.

8/29/2013 ...\Final Plans\SS009.dgn

PERMANENT SIGN SCHEDULE

SHEET NO.	NO.	CODE	DESCRIPTION	QUANTITY	SIGN HEIGHT (IN)	SIGN WIDTH (IN)	SIGN AREA (SF)	SIGN DISPOSITION	ITEM 749687 SINGLE POST EACH		ITEM 749690 MULTI-POST (SF)		ITEM 749688 4" HOLE, 0-6" (EACH)	ITEM 749689 4" HOLE, >6" (EACH)	REMARKS
									REMOVE	INSTALL	REMOVE	INSTALL			
SS-04	69	SPECIAL	REVEREND GEORGE WASHINGTON WILKERSON	1				REMAIN							
	69		MEMORIAL ROUTE	1				REMAIN							
	69	SPECIAL	NO PARKING, WED 8AM-10AM STREET CLEANING	1				REMAIN							
	69		EX. HOLIDAYS AND NOV. THRU MAR.												
	69	D3-1(9)	B ST	1				REMAIN							
	69	D3-1(9)	S HEALD ST	1				REMAIN							
	70		NO PARKING, TUES 8AM-10AM STREET CLEANING	1				REMAIN							
	70		EX. HOLIDAYS AND NOV. THRU MAR.												
	70	R10-7-DE	DO NOT BLOCK DRIVEWAY	1				REMAIN							
	71		NO PARKING, TUES 8AM-10AM STREET CLEANING	1				REMAIN							
	71		EX. HOLIDAYS AND NOV. THRU MAR.												
	72	SPECIAL	RESERVED PARKIMG HANDICAP VEHICLE ONLY	1				REMAIN							
		SPECIAL	SUN - ONLY 8AM-5PM (PLAQUE)	1				REMAIN							
	73	SPECIAL	MEDICAL CENTER (ARROW)	1				REMAIN							
	74	SPECIAL	NO PARKING, WED 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	75	D3-1(9)	B ST	1				REMAIN							
	75	D3-1(9)	S HEALD ST	1				REMAIN							
	76	R6-2_R	ONE WAY (RIGHT ARROW)	1				REMAIN							
	77	SPECIAL	NO PARKING, MON 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	78	SPECIAL	RESERVED HANDICAP PARKING RESIDENT	1				REMAIN							
			PERMIT ONLY PERMIT# P246991	1				REMAIN							
	79	SPECIAL	NO PARKING, MON 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	80	SPECIAL	NO PARKING, WED 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	81	EM-1-DE	EVACUATION ROUTE	1				REMAIN							
	81	EM-1p-DE	ARROW (PLATE)	1				REMAIN							
	82	R6-2_L	ONE WAY (LEFT ARROW)	1				REPOSITION	1	1					
	83	SPECIAL	NO PARKING, MON 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	84	S1-1(36)	SCHOOL SIGN (Symbol) - 36x36	1	36"	36"	9	NEW		1					
	84a	S1-1(36)	SCHOOL SIGN (Symbol) - 36x36	1	36"	36"	9	NEW		1					
	85		NO PARKING, MON 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	86	R6-2_R	ONE WAY (RIGHT ARROW)	1				REPOSITION	1	1					
	86	SPECIAL	NO PARKING, WED 8AM-10AM STREET CLEANING	1				REPOSITION	1	1					
			EX. HOLIDAYS AND NOV. THRU MAR.												
	87	S1-1(36)	SCHOOL SIGN (Symbol) - 36x36	1	36"	36"	9	NEW		1					

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RECOMMENDED 8/28/2013 DATE

SS-10

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT T201206101 | COUNTY NEW CASTLE | BRIDGE NO. N/A | DESIGNED BY: LB | CHECKED BY: JMH

SIGNING, STRIPING AND CONDUIT PLAN

SHEET NO. | TOTAL SHTS.

8/29/2013
...\Final Plans\SS010.dgn

PERMANENT SIGN SCHEDULE

SHEET NO.	NO.	CODE	DESCRIPTION	QUANTITY	SIGN HEIGHT (IN)	SIGN WIDTH (IN)	SIGN AREA (SF)	SIGN DISPOSITION	ITEM 749687 SINGLE POST EACH		ITEM 749690 MULTI-POST (SF)		ITEM 749688 4" HOLE, 0-6" (EACH)	ITEM 749689 4" HOLE, >6" (EACH)	REMARKS
									REMOVE	INSTALL	REMOVE	INSTALL			
SS-05	88	SPECIAL	NO LOITERING	1				REMAIN							
	89	R2-1-20	SPEED LIMIT (20 MPH)	1				REMAIN							
	90	SPECIAL	SENATOR HERMAN H. HOLLOWAY SR MEMORIAL ROUTE	1				REMAIN							
	90	S1-1(36)	SCHOOL SIGN (Symbol) - 36x36	1	36"	36"	9	NEW		1					
	90	W16-9P(30)	AHEAD (plaque) - 30x18	1	30"	18"	3.75	NEW		1					
	91	S1-1	SCHOOL SIGN (Symbol)	1				REMAIN							
	91	W16-7P_L	RIGHT DOWNWARD DIAGONAL ARROW (plaque)	1				REMAIN							
	91	D4-3-DE	BUS STOP (DART)	1				REMAIN							
	92	M1-8-DE	BIKE ROUTE	1				REMAIN							
	92		BUS STOP ZONE	1				REMAIN							
	~	SPECIAL	NO STOPPING STANDING OR PARKING	1				REMAIN							
	93	R7-4-DE	NO STOPPING, STANDING, OR PARKING	1				REMAIN							
	94	S1-1(36)	SCHOOL SIGN (Symbol) - 36x36	1				REPOSITION	1	1					
	95	S1-1(36)	SCHOOL SIGN (Symbol) - 36x36	1	36"	36"	9	NEW		1					
	96	SPECIAL	CONVICTION OF NOISE VIOLATION WILMINGTON	1				REMAIN							
			CITY CODE SECTION 11-60 FIRST OFFENCE FINES	1				REMAIN							
			UP TO $1000.00	1				REMAIN							
	96	R7-1	NO PARKING ANY TIME	1				REMAIN							
	97	D3-1(9)	A ST	1				REMAIN							
	97	D3-1(9)	S HEALD ST	1				REMAIN							
	98	R7-1	NO PARKING ANY TIME (ARROW)	1				REMAIN							
	99	D4-3-DE	BUS STOP (DART)	1				REMAIN							
	100	SPECIAL	NO PARKING, THUR 8AM-10AM STREET CLEANING	1				REPOSITION	1	1					
			EX. HOLIDAYS AND NOV. THRU MAR.												
	100	R6-1_R	ONE WAY (ENCLOSED IN RIGHT ARROW)	1				REPOSITION	1	1					
	101	S1-1(36)	SCHOOL SIGN (Symbol) - 36x36	1	36"	36"	9	NEW		1					
	102	D3-1(9)	STREET NAME (1 Line)	1	0	9"	0	NEW		1					
	102	D3-1(9)	STREET NAME (1 Line)	1	0	9"	0	NEW		1					
	103	R7-1	NO PARKING ANY TIME	1				REMAIN							
	103	R6-1_L	ONE WAY (ENCLOSED IN LEFT ARROW)	1				REMAIN							
	104	SPECIAL	NO STOPPING STANDING ANY TIME TOW AWAY	1				REMAIN							
	104	SPECIAL	BETWEEN SIGNS (PLAQUE)	1				REMAIN							
	104	SPECIAL	NO PARKING, THUR 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	105	S1-1(36)	SCHOOL SIGN (Symbol) - 36x36	1	36"	36"	9	NEW		1					
	106	R6-1_R	ONE WAY (ENCLOSED IN RIGHT ARROW)	1				REPOSITION	1	1					
	107	SPECIAL	NO STOPPING STANDING ANY TIME TOW AWAY	1				REMAIN							
	107	SPECIAL	BETWEEN SIGNS (PLAQUE)	1				REMAIN							
	108	S1-1	SCHOOL SIGN (Symbol)	2				REMAIN							

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SEAL

RECOMMENDED 8/28/2013 DATE

SS-11

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION - NORTH 1, 2012

CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY		
NEW CASTLE	CHECKED BY: JMH	

SIGNING, STRIPING AND CONDUIT PLAN

SHEET NO.

TOTAL SHTS.

8/29/2013
...\FinalPlans\SS011.dgn

PERMANENT SIGN SCHEDULE

SHEET NO.	NO.	CODE	DESCRIPTION	QUANTITY	SIGN HEIGHT (IN)	SIGN WIDTH (IN)	SIGN AREA (SF)	SIGN DISPOSITION	ITEM 749687 SINGLE POST EACH		ITEM 749690 MULTI-POST (SF)		ITEM 749688 4" HOLE, 0-6" (EACH)	ITEM 749689 4" HOLE, >6" (EACH)	REMARKS
									REMOVE	INSTALL	REMOVE	INSTALL			
SS-05	109	R3-3	NO LEFT TURN	1				REMAIN							
		R6-1_R	ONE WAY (ENCLOSED IN RIGHT ARROW)	1				REMAIN							
	110	W14-2	NO OUTLET	1				REMAIN							
	111	D4-3-DE	BUS STOP (DART)	1				REPOSITION	1	1					
	112	S1-1(36)	SCHOOL SIGN (Symbol) - 36x36	1	36"	36"	9.0	NEW		1					
	113	R4-7a	KEEP RIGHT (NO ARROW)	1				REMOVE	1						
	114	R4-7(24)	KEEP RIGHT (Symbol) - 24x30	1	24"	30"	5.0	NEW		1					
	115	R6-1_R	ONE WAY (ENCLOSED IN RIGHT ARROW)	1				REMAIN							
	116	S5-2	END SCHOOL ZONE	1				REMAIN							
	117	S1-1	SCHOOL SIGN (Symbol)	1				REMAIN							
	117	W16-9P	AHEAD (plaque)	1				REMAIN							
	117	SPECIAL	NO PARKING, THUR 8AM-10AM STREET CLEANING	1				REMAIN							
			EX. HOLIDAYS AND NOV. THRU MAR.												
	117	R5-2R	TRUCKS NO RIGHT TURN	1				REMAIN							
	118	R5-1a	WRONG WAY	1				REMAIN							
	119	R2-1-25	SPEED LIMIT (25 MPH)	1				REMAIN							
	119	R7-1	NO PARKING ANY TIME	1				REMAIN							
	120	R7-1	NO PARKING ANY TIME	1				REMAIN							
							120.75		12	31					

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PREPARED BY THE CONSULTING FIRM OF McCormick Taylor Engineers & Planners Since 1946

SEAL

RECOMMENDED 8/28/2013 DATE

SS-12

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NOT TO SCALE

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT T201206101

COUNTY NEW CASTLE

BRIDGE NO. N/A

DESIGNED BY: LB

CHECKED BY: JMH

SIGNING, STRIPING AND CONDUIT PLAN

SHEET NO.

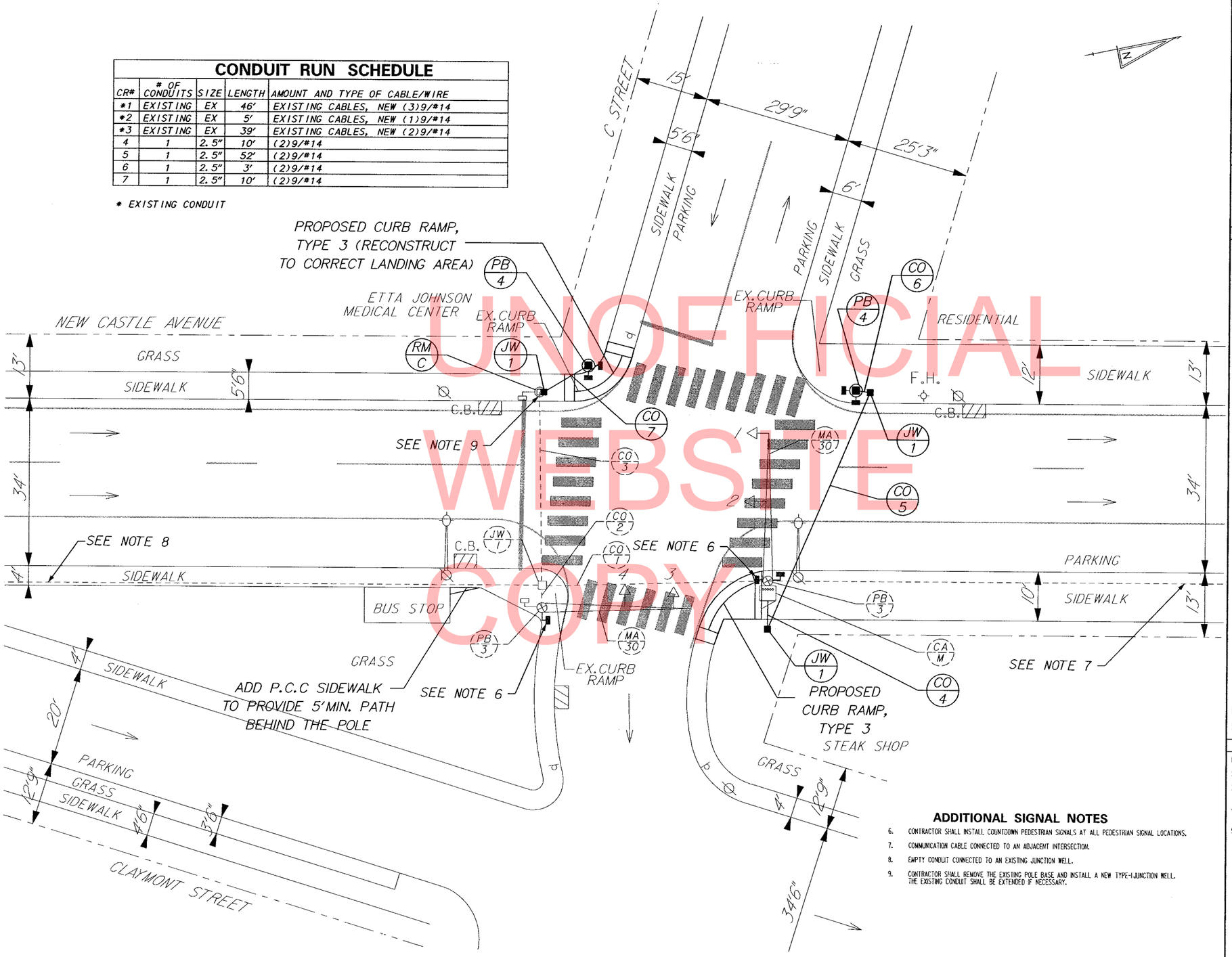
TOTAL SHTS.

8/29/2013
...\Final Plans\SS012.dgn

CONDUIT RUN SCHEDULE

CR#	# OF CONDUITS	SIZE	LENGTH	AMOUNT AND TYPE OF CABLE/WIRE
*1	EXISTING	EX	46'	EXISTING CABLES, NEW (3)9/#14
*2	EXISTING	EX	5'	EXISTING CABLES, NEW (1)9/#14
*3	EXISTING	EX	39'	EXISTING CABLES, NEW (2)9/#14
4	1	2.5"	10'	(2)9/#14
5	1	2.5"	52'	(2)9/#14
6	1	2.5"	3'	(2)9/#14
7	1	2.5"	10'	(2)9/#14

* EXISTING CONDUIT

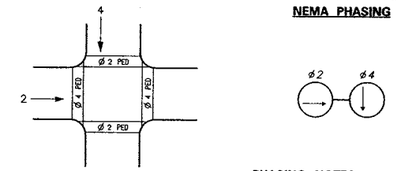


UNOFFICIAL WEBSITE COPY

ADDITIONAL SIGNAL NOTES

6. CONTRACTOR SHALL INSTALL COUNTDOWN PEDESTRIAN SIGNALS AT ALL PEDESTRIAN SIGNAL LOCATIONS.
7. COMMUNICATION CABLE CONNECTED TO AN ADJACENT INTERSECTION.
8. EMPTY CONDUIT CONNECTED TO AN EXISTING JUNCTION WELL.
9. CONTRACTOR SHALL REMOVE THE EXISTING POLE BASE AND INSTALL A NEW TYPE-1JUNCTION WELL. THE EXISTING CONDUIT SHALL BE EXTENDED IF NECESSARY.

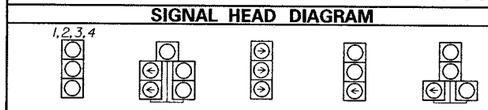
SIGNAL PHASING



PHASING NOTES

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

SIGNAL HEAD DIAGRAM



LEGEND

- PROPOSED SIGNAL CABINET
- EXISTING SIGNAL CABINET
- PROPOSED SIGNAL POLE BASE
- EXISTING SIGNAL POLE BASE
- PROPOSED PEDESTRIAN POLE BASE
- EXISTING PEDESTRIAN POLE BASE
- PROPOSED WOOD POLE
- EXISTING UTILITY POLE
- PROPOSED JUNCTION WELL
- J.W. EXISTING JUNCTION WELL
- PROPOSED SIGNAL HEAD
- EXISTING SIGNAL HEAD
- PROPOSED PEDESTRIAN SIGNAL HEAD
- EXISTING PEDESTRIAN SIGNAL HEAD
- PROPOSED PEDESTRIAN PUSHBUTTON
- EXISTING PEDESTRIAN PUSHBUTTON
- PROPOSED VIDEO DETECTION
- EXISTING VIDEO DETECTION
- PROPOSED MICROWAVE DETECTION
- EXISTING MICROWAVE DETECTION
- OVERHEAD SIGNING
- PROPOSED OPTICOM RECEIVER
- EXISTING OPTICOM RECEIVER
- PROPOSED MAST ARM
- EXISTING MAST ARM
- PROPOSED LUMINAIRE
- EXISTING LUMINAIRE
- PROPOSED LOOP DETECTOR (TYPE 1 OR 2)
- EXISTING LOOP DETECTOR (TYPE 1 OR 2)
- RM/C REMOVE BY CONTRACTOR
- RM/O REMOVE BY OTHERS
- AB ABANDON
- PB/X PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
- PB/X EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
- JW/X PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
- JW/X EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
- CO/# PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
- CO/# EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
- OH/# PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
- OH/# EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
- MA/XX PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
- MA/XX EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
- CA/X PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
- CA/X EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
- PROPOSED SPAN WIRE
- XX EXISTING SPAN WIRE
- RIGHT-OF-WAY OR PROPERTY LINE
- PROPOSED SPAN INSULATOR
- EXISTING SPAN INSULATOR
- P SERVICE PEDESTAL
- TUBULAR MARKER (FLEXI-POST)

GENERAL SIGNAL NOTES

1. CR #1 IS NOT DRAWN TO SCALE, NOR IS THE DIRECTION NECESSARILY CORRECT.
2. ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
3. POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER. EXISTING CONDUIT IS TO BE ABANDONED.
4. ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS.SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

PREPARED BY
THE CONSULTING FIRM OF
McCormick Taylor
Engineers & Planners Since 1946

SEAL

RECOMMENDED

8/28/2013
DATE

SG-01
SHEET NO.

TOTAL SHTS.

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

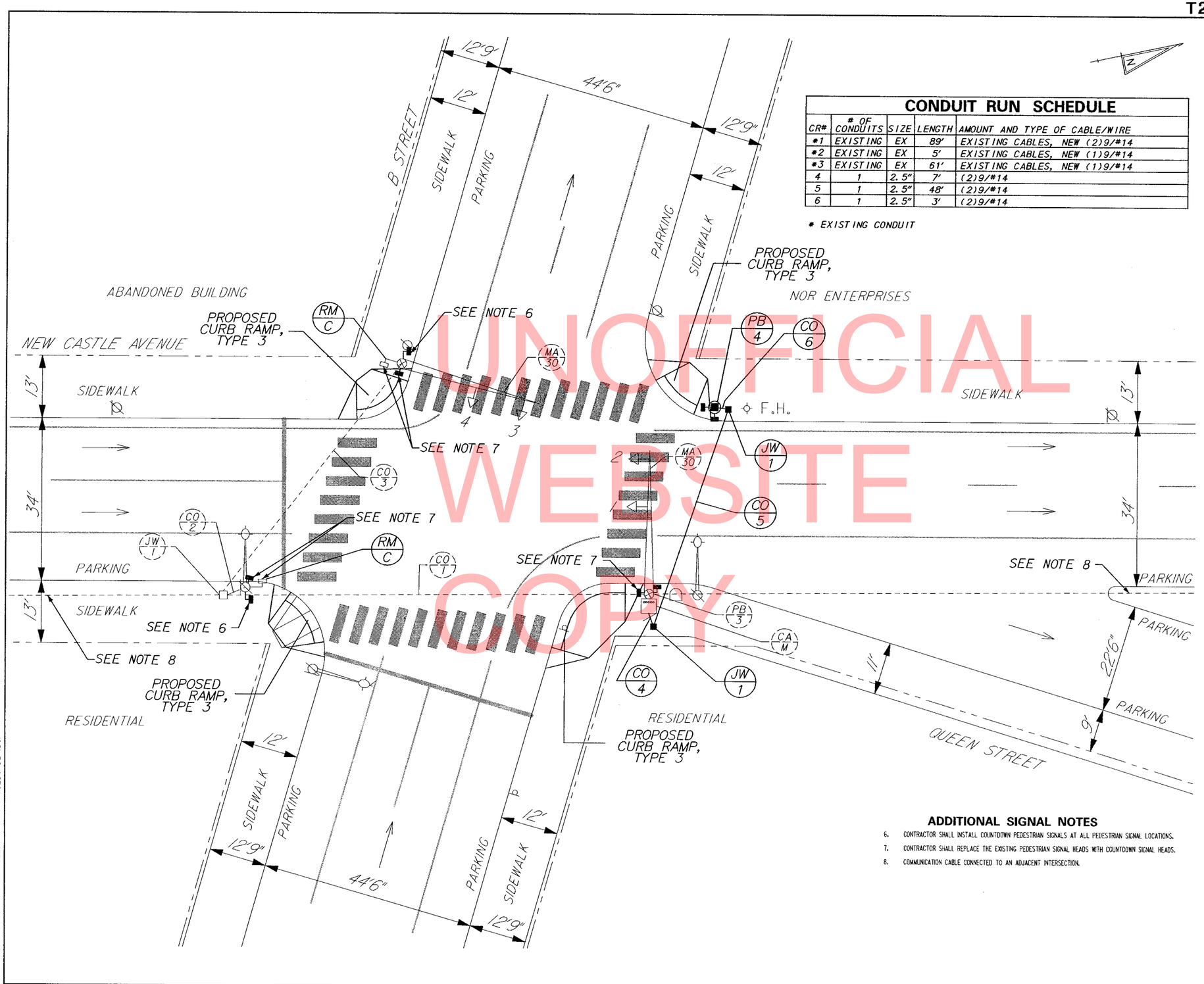
SCALE 0 10 20 30 FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT	PERMIT NO.	WILMINGTON
T201206101	DESIGNED BY:	MT
COUNTY	CHECKED BY:	JH
NEW CASTLE		

SIGNAL PLAN
NEW CASTLE AVE @ C ST

P:\SR 299\DESIGN\PRELIMINARY PLANS\FROM DELDOT TRAFFIC\SG_BORDER.DGN



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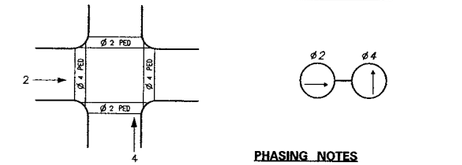
CONDUIT RUN SCHEDULE

CR#	# OF CONDUITS	SIZE	LENGTH	AMOUNT AND TYPE OF CABLE/WIRE
#1	EXISTING	EX	89'	EXISTING CABLES, NEW (2)9/#14
#2	EXISTING	EX	5'	EXISTING CABLES, NEW (1)9/#14
#3	EXISTING	EX	61'	EXISTING CABLES, NEW (1)9/#14
4	1	2.5"	7'	(2)9/#14
5	1	2.5"	48'	(2)9/#14
6	1	2.5"	3'	(2)9/#14

* EXISTING CONDUIT

SIGNAL PHASING

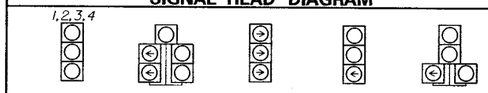
NEMA PHASING



PHASING NOTES

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

SIGNAL HEAD DIAGRAM



LEGEND

PROPOSED SIGNAL CABINET	REMOVE BY CONTRACTOR
EXISTING SIGNAL CABINET	REMOVE BY OTHERS
PROPOSED SIGNAL POLE BASE	ABANDON
EXISTING SIGNAL POLE BASE	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
PROPOSED PEDESTRIAN POLE BASE	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
EXISTING PEDESTRIAN POLE BASE	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
PROPOSED WOOD POLE	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
EXISTING UTILITY POLE	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
PROPOSED JUNCTION WELL	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
EXISTING JUNCTION WELL	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
PROPOSED SIGNAL HEAD	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
EXISTING SIGNAL HEAD	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
PROPOSED PEDESTRIAN SIGNAL HEAD	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
EXISTING PEDESTRIAN SIGNAL HEAD	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
PROPOSED PEDESTRIAN PUSHBUTTON	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
EXISTING PEDESTRIAN PUSHBUTTON	PROPOSED SPAN WIRE
PROPOSED VIDEO DETECTION	EXISTING SPAN WIRE
EXISTING VIDEO DETECTION	RIGHT-OF-WAY OR PROPERTY LINE
PROPOSED MICROWAVE DETECTION	PROPOSED SPAN INSULATOR
EXISTING MICROWAVE DETECTION	EXISTING SPAN INSULATOR
OVERHEAD SIGNING	SERVICE PEDESTAL
PROPOSED OPTICOM RECEIVER	TUBULAR MARKER (FLEXI-POST)
EXISTING OPTICOM RECEIVER	
PROPOSED MAST ARM	
EXISTING MAST ARM	
PROPOSED LUMINAIRE	
EXISTING LUMINAIRE	
PROPOSED LOOP DETECTOR (TYPE 1 OR 2)	
EXISTING LOOP DETECTOR (TYPE 1 OR 2)	

GENERAL SIGNAL NOTES

1. CR #1 IS NOT DRAWN TO SCALE, NOR IS THE DIRECTION NECESSARILY CORRECT.
2. ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
3. POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER. EXISTING CONDUIT IS TO BE ABANDONED.
4. ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

ADDITIONAL SIGNAL NOTES

6. CONTRACTOR SHALL INSTALL COUNTDOWN PEDESTRIAN SIGNALS AT ALL PEDESTRIAN SIGNAL LOCATIONS.
7. CONTRACTOR SHALL REPLACE THE EXISTING PEDESTRIAN SIGNAL HEADS WITH COUNTDOWN SIGNAL HEADS.
8. COMMUNICATION CABLE CONNECTED TO AN ADJACENT INTERSECTION.

PREPARED BY THE CONSULTING FIRM OF McCormick Taylor
Engineers & Planners Since 1946

SEAL

RECOMMENDED

8/28/2013
DATE

SG-02
SHEET NO.

TOTAL SHTS.

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

SCALE 0 10 20 30 FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT	PERMIT NO.	N/A
T201206101	DESIGNED BY:	MT
COUNTY		
NEW CASTLE	CHECKED BY:	JH

SIGNAL PLAN
NEW CASTLE AVE @ B ST

P:\SR 299\DESIGN\PRELIMINARY PLANS\FROM DELDOT TRAFFIC\SG_BORDER.DGN

CONDUIT RUN SCHEDULE

CR#	# OF CONDUITS	SIZE	LENGTH	AMOUNT AND TYPE OF CABLE/WIRE
*1	EXISTING	EX	6'	EXISTING CABLES
2	1	2.0"	43'	(1)2/#8 U.F.W/ GROUND
3	3	2.5"	5'	(11)9/#14
4	1	2.5"	18'	(2)9/#14
5	1	2.5"	73'	(5)9/#14
6	1	2.5"	5'	(3)9/#14
*7	EXISTING	EX	52'	EXISTING CABLES, NEW (2)9/#14
8	1	2.5"	17'	(2)9/#14
*9	EXISTING	EX	50'	EXISTING CABLES
10	1	2.5"	36'	(4)9/#14
11	1	2.5"	4'	(4)9/#14

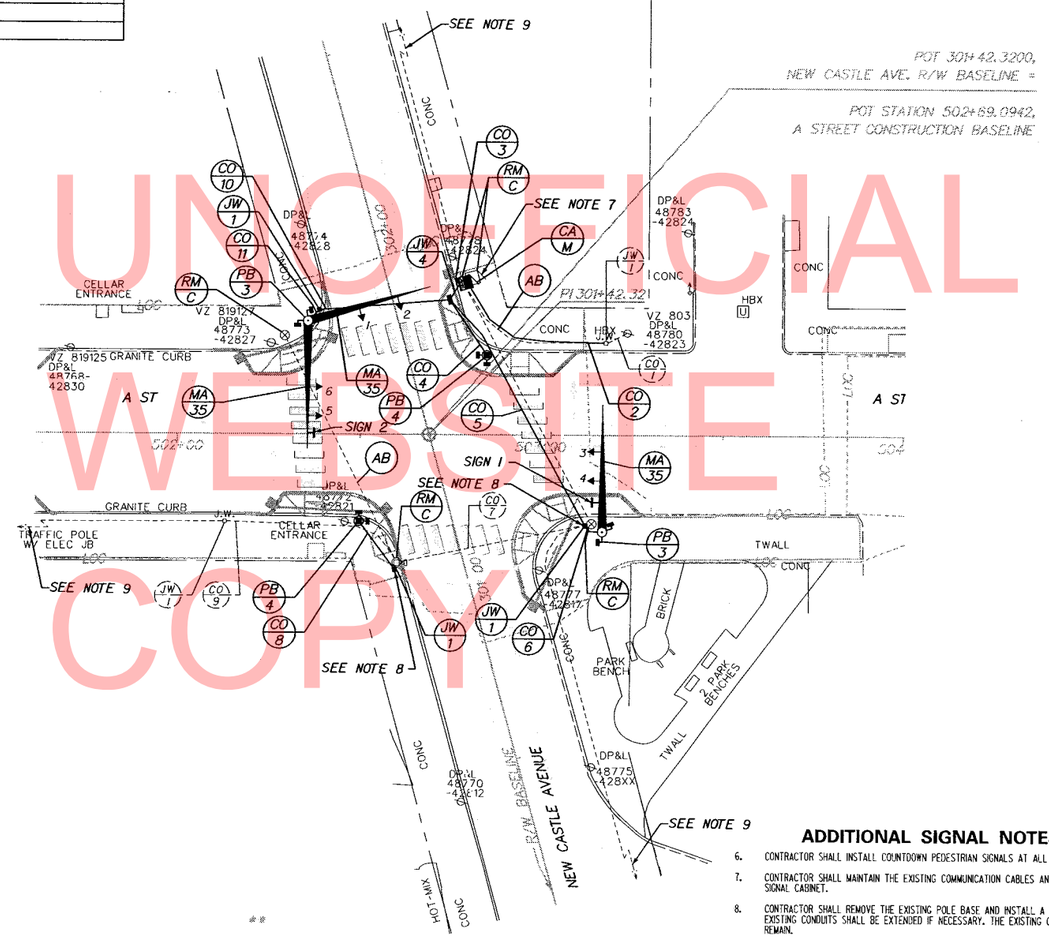
* EXISTING CONDUIT

SIGN 1

R3-1 (24" x 24")

SIGN 2

R3-2 (24" x 24")



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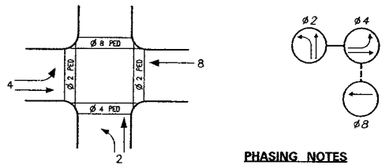
ADDITIONAL SIGNAL NOTES

6. CONTRACTOR SHALL INSTALL COUNTDOWN PEDESTRIAN SIGNALS AT ALL PEDESTRIAN SIGNAL LOCATIONS.
7. CONTRACTOR SHALL MAINTAIN THE EXISTING COMMUNICATION CABLES AND SPLICE THEM INTO THE PROPOSED SIGNAL CABINET.
8. CONTRACTOR SHALL REMOVE THE EXISTING POLE BASE AND INSTALL A TYPE-1JUNCTION WELL. THE EXISTING CONDUITS SHALL BE EXTENDED IF NECESSARY. THE EXISTING COMMUNICATION CABLES SHALL REMAIN.
9. THE EXISTING COMMUNICATION CABLE CONNECTED TO AN ADJACENT INTERSECTION.

SIGNAL PHASING

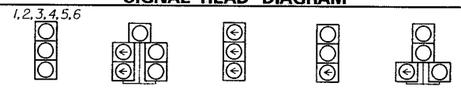
NEMA PHASING



PHASING NOTES

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

SIGNAL HEAD DIAGRAM



LEGEND

PROPOSED SIGNAL CABINET	REMOVE BY CONTRACTOR
EXISTING SIGNAL CABINET	REMOVE BY OTHERS
PROPOSED SIGNAL POLE BASE	ABANDON
EXISTING SIGNAL POLE BASE	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
PROPOSED PEDESTRIAN POLE BASE	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
EXISTING PEDESTRIAN POLE BASE	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
PROPOSED WOOD POLE	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
EXISTING UTILITY POLE	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
PROPOSED JUNCTION WELL	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
EXISTING JUNCTION WELL	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
PROPOSED SIGNAL HEAD	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
EXISTING SIGNAL HEAD	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
PROPOSED PEDESTRIAN SIGNAL HEAD	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
EXISTING PEDESTRIAN SIGNAL HEAD	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
PROPOSED PEDESTRIAN PUSHBUTTON	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
EXISTING PEDESTRIAN PUSHBUTTON	PROPOSED SPAN WIRE
PROPOSED VIDEO DETECTION	EXISTING SPAN WIRE
EXISTING VIDEO DETECTION	RIGHT-OF-WAY OR PROPERTY LINE
PROPOSED MICROWAVE DETECTION	PROPOSED SPAN INSULATOR
EXISTING MICROWAVE DETECTION	EXISTING SPAN INSULATOR
OVERHEAD SIGNING	SERVICE PEDESTAL
PROPOSED OPTICOM RECEIVER	TUBULAR MARKER (FLEXI-POST)
EXISTING OPTICOM RECEIVER	
PROPOSED MAST ARM	
EXISTING MAST ARM	
PROPOSED LUMINAIRE	
EXISTING LUMINAIRE	
PROPOSED LOOP DETECTOR (TYPE 1 OR 2)	
EXISTING LOOP DETECTOR (TYPE 1 OR 2)	

GENERAL SIGNAL NOTES

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4. ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

PREPARED BY
THE CONSULTING FIRM OF
McCormick Taylor
Engineers & Planners Since 1946

SEAL

RECOMMENDED

8/28/2013
DATE

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

SCALE
0 20 40 60
FEET

PAVEMENT & REHABILITATION
- NORTH 1, 2012

CONTRACT	PERMIT NO.	N/A	
T201206101	DESIGNED BY:	MT	
COUNTY			
NEW CASTLE	CHECKED BY:	JH	

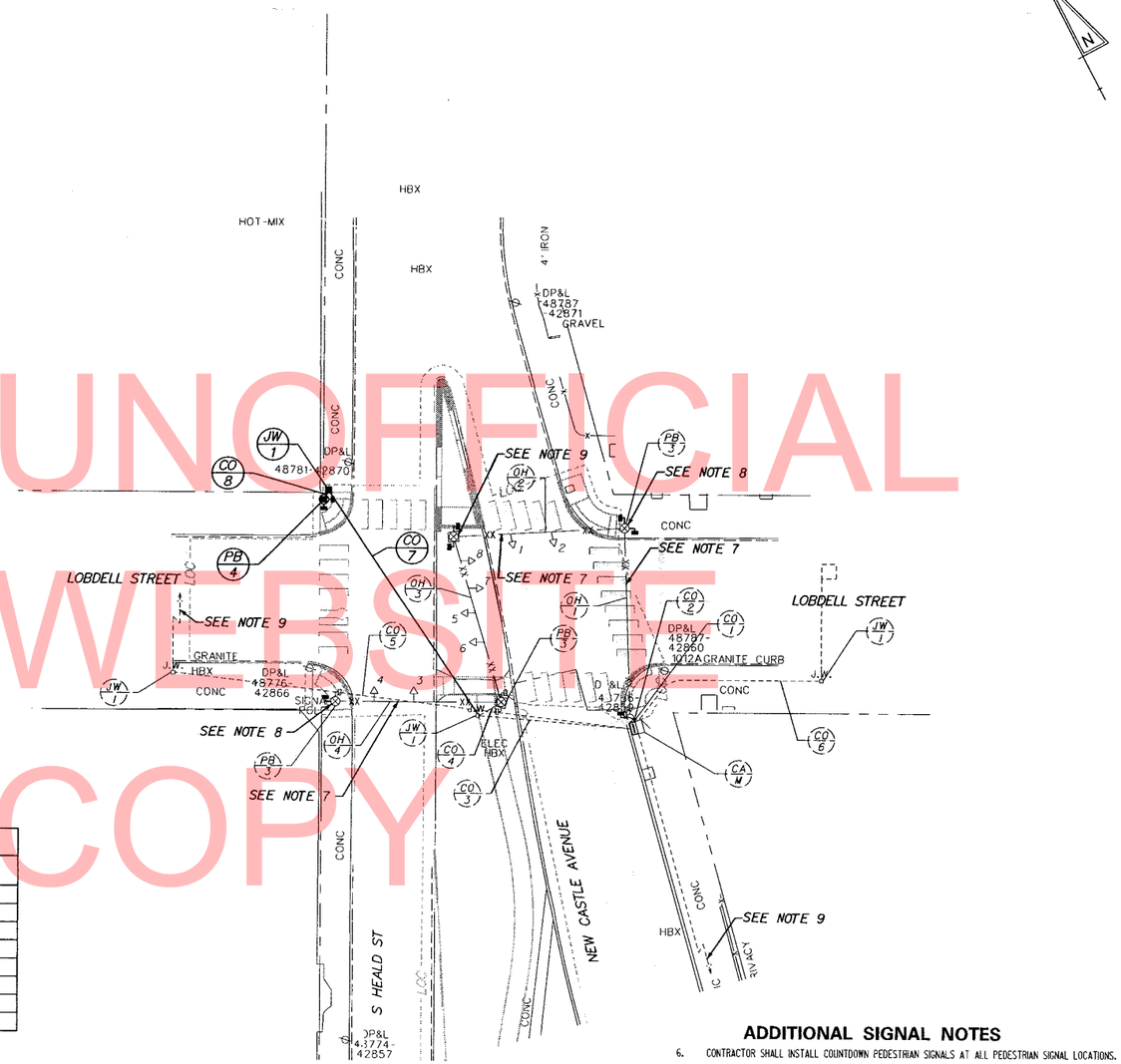
SIGNAL PLAN
NEW CASTLE AVE @ A ST

SG-03
SHEET NO.
TOTAL SHTS.

SPAN WIRE SCHEDULE

SPAN	LENGTH	SPAN MOUNT HEIGHT	5% SAG	SPAN LOW POINT	BOTTOM OF LOWEST HEAD
*EAST	52 FT	EXISTING	2.6 FT	EXISTING	EXISTING
*CENTER	48 FT	EXISTING	2.4 FT	EXISTING	EXISTING
*NORTH	47 FT	EXISTING	2.4 FT	EXISTING	EXISTING
*SOUTH	46 FT	EXISTING	2.3 FT	EXISTING	EXISTING

* EXISTING SPAN WIRE
** FIELD ADJUSTMENTS AS REQUIRED



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CONDUIT RUN SCHEDULE

CR#	# OF CONDUITS	SIZE	LENGTH	AMOUNT AND TYPE OF CABLE/WIRE
#1	EXISTING	EX	3'	EXISTING CABLES
#2	EXISTING	EX	3'	EXISTING CABLES
#3	EXISTING	EX	42'	EXISTING CABLES, NEW (3)9/#14
#4	EXISTING	EX	6'	EXISTING CABLES, NEW (1)9/#14
#5	EXISTING	EX	127'	EXISTING CABLES
#6	EXISTING	EX	55'	EXISTING CABLES
7	1	2.5"	74'	(2)9/#14
8	1	2.5"	3'	(2)9/#14

* EXISTING CONDUIT

OVERHEAD RUN SCHEDULE

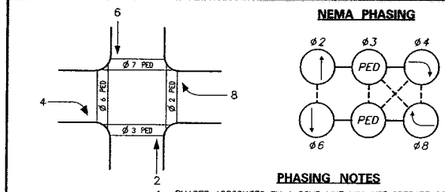
OH#	LENGTH	AMOUNT AND TYPE OF CABLE/WIRE
#1	52'	EXISTING CABLES, NEW (3)9/#14
#2	47'	EXISTING CABLES, NEW (1)9/#14
#3	30'	EXISTING CABLES
#4	46'	EXISTING CABLES, NEW (1)9/#14

* EXISTING OVERHEAD RUN

ADDITIONAL SIGNAL NOTES

6. CONTRACTOR SHALL INSTALL COUNTDOWN PEDESTRIAN SIGNALS AT ALL PEDESTRIAN SIGNAL LOCATIONS.
7. CONTRACTOR SHALL INSTALL NEW 9/#14 CABLE(S) ON THE EXISTING SPAN WIRE FOR PROPOSED PEDESTRIAN HEADS INSTALLED ON THE EXISTING SIGNAL STAIN POLES.
8. CONTRACTOR SHALL INSTALL A PEDESTRIAN HEAD ON THE EXISTING SIGNAL STRAIN POLE AND INSTALL A WEATHER HEAD AT TOP OF THE POLE FOR A NEW 9/#14 CABLE TO A PROPOSED PEDESTRIAN HEAD.
9. THE EXISTING COMMUNICATION CABLE CONNECTED TO AN ADJACENT INTERSECTION.

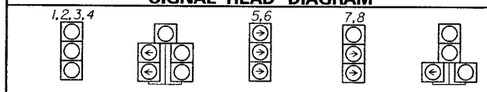
SIGNAL PHASING



PHASING NOTES

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

SIGNAL HEAD DIAGRAM



LEGEND

PROPOSED SIGNAL CABINET	REMOVE BY CONTRACTOR
EXISTING SIGNAL CABINET	REMOVE BY OTHERS
PROPOSED SIGNAL POLE BASE	ABANDON
EXISTING SIGNAL POLE BASE	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
PROPOSED PEDESTRIAN POLE BASE	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
EXISTING PEDESTRIAN POLE BASE	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
PROPOSED WOOD POLE	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
EXISTING UTILITY POLE	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
PROPOSED JUNCTION WELL	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
EXISTING JUNCTION WELL	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
PROPOSED SIGNAL HEAD	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
EXISTING SIGNAL HEAD	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
PROPOSED PEDESTRIAN PUSHBUTTON	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
EXISTING PEDESTRIAN PUSHBUTTON	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
PROPOSED VIDEO DETECTION	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
EXISTING VIDEO DETECTION	PROPOSED SPAN WIRE
PROPOSED MICROWAVE DETECTION	EXISTING SPAN WIRE
EXISTING MICROWAVE DETECTION	RIGHT-OF-WAY OR PROPERTY LINE
OVERHEAD SIGNING	PROPOSED SPAN INSULATOR
PROPOSED OPTICOM RECEIVER	EXISTING SPAN INSULATOR
EXISTING OPTICOM RECEIVER	SERVICE PEDESTAL
PROPOSED MAST ARM	TUBULAR MARKER (FLEXI-POST)
EXISTING MAST ARM	
PROPOSED LUMINAIRE	
EXISTING LUMINAIRE	
PROPOSED LOOP DETECTOR (TYPE 1 OR 2)	
EXISTING LOOP DETECTOR (TYPE 1 OR 2)	

GENERAL SIGNAL NOTES

1. CR #1 IS NOT DRAWN TO SCALE, NOR IS THE DIRECTION NECESSARILY CORRECT.
2. ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
3. POLE BASES, CABINET BASE AND CONDUIT JUNCTION WELLS TO BE REMOVED IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY ENGINEER. EXISTING CONDUIT IS TO BE ABANDONED.
4. ALL GALVANIZED CONDUIT (GRC) SHALL BE REAMED AND THREADED. ALL GRC SHALL BE THREADED TOGETHER WITH APPROVED COUPLINGS. SET SCREW, BOLTED, AND COMPRESSION FITTING ARE NOT ACCEPTABLE.
5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

PREPARED BY THE CONSULTING FIRM OF
McCormick Taylor
Engineers & Planners Since 1946

SEAL

RECOMMENDED — DATE 8/28/2013

SG-04

P:\SR 299\DESIGN\PRELIMINARY PLANS\FROM DELDOT TRAFFIC\SG_BORDER.DGN

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

SCALE 0 20 40 60 FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT T201206101	PERMIT NO.	N/A	SIGNAL PLAN
COUNTY NEW CASTLE	DESIGNED BY:	MT	NEW CASTLE AVE @ LOBDELL ST
	CHECKED BY:	JH	

SHEET NO. / TOTAL SHTS.

COUNTY ASSESSMENT PARCEL NUMBER	PLAN SHEET NUMBER	OWNERSHIP OF RECORD	TITLE SOURCE	PROPERTY AREA BEFORE ACQUISITION (ACRE) D=DEED C=CALCULATED A=ASSESSMENT	ACQUISITION CODE FEE, R/W, P/E, TCE	AREA TO BE ACQUIRED: ACQUISITION (SQ. FEET /ACRES)	AREA TO BE ACQUIRED: AREA OCCUPIED BY EXISTING RIGHT OF WAY (SQ. FEET /ACRES)	AREA TO BE ACQUIRED: EASEMENT: PERMANENT (SQ. FEET /ACRES)	AREA TO BE ACQUIRED: EASEMENT: TEMPORARY (SQ. FEET /ACRES)	PROPERTY AREA REMAINING (SQ. FEET /ACRES)	DEED RECORD OF ACQUISITION	REMARKS
26-051.30-099	1	(1-R) CITY OF WILMINGTON	NA	C - 0.01	TCE				86.3003 / 0.00	278.1562 / 0.01		
26-051.30.098	1	(2-R) CITY OF WILMINGTON	NA	C - 0.05	TCE				278.1562 / 0.01	2165.8158 / 0.05		

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
26-051.30-099	(1-R) CITY OF WILMINGTON	TCE	N/A	0.006

ALIGNMENT NUMBER & DESCRIPTION: S HEALD STREET - S HEALD ST

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
20000	S Heald St	103+83.40	30.00	630403.6508	620727.4354	N 28°00'00.00" E	5.0000				
20001	S Heald St	103+88.40	30.00	630408.0656	620729.7828	S 62°00'00.00" E	16.5573				
20002	S Heald St	103+88.40	46.56	630400.2924	620744.4021	S 12°18'00.00" W	5.1938				
20003	S Heald St	103+83.40	47.96	630395.2178	620743.2956	N 62°00'00.00" W	17.9628				
20000	S Heald St	103+83.40	30.00	630403.6508	620727.4354						

FIGURE TCE 1 AREA = 86.3003 SQ. FT. (0.0020 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
26-051.30.098	(2-R) CITY OF WILMINGTON	TCE	N/A	0.050

ALIGNMENT NUMBER & DESCRIPTION: S HEALD STREET - S HEALD ST

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
20001	S Heald St	103+88.40	30.00	630408.0656	620729.7828	N 28°00'00.00" E	15.3860				
20004	S Heald St	104+03.79	30.00	630421.6506	620737.0061			S 69°51'00.00" E	11.8875	17.2055	6.0000
20005	S Heald St	104+05.41	41.78	630417.5556	620748.1660	S 12°18'00.00" W	17.6688				
20002	S Heald St	103+88.40	46.56	630400.2924	620744.4021	N 62°00'00.00" W	16.5573				
20001	S Heald St	103+88.40	30.00	630408.0656	620729.7828						

FIGURE TCE 2 AREA = 278.1562 SQ. FT. (0.0064 ACRES)

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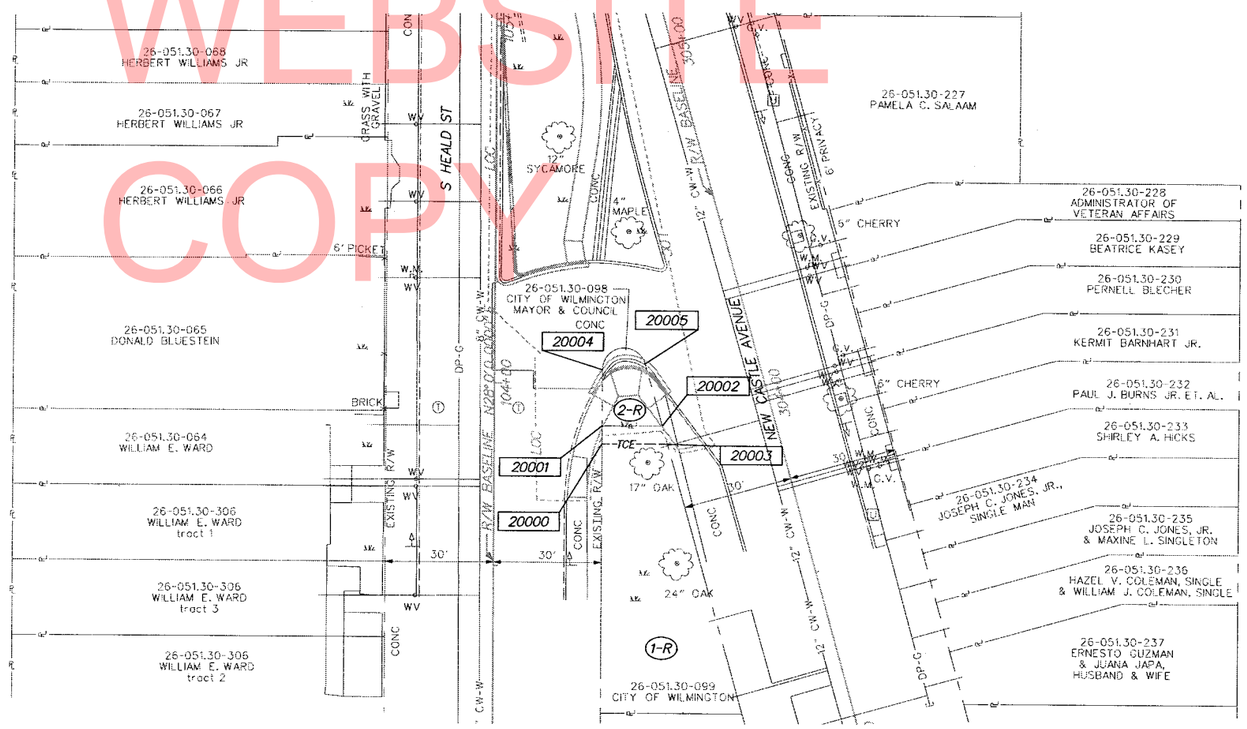

ACQUISITION CODES

FEE	AREA OF ACQUISITION
R/W	AREA OCCUPIED BY EXISTING R/W
P/E	PERMANENT EASEMENT
TCE	TEMPORARY CONSTRUCTION EASEMENT
*	"-" OFFSET IS LEFT OF BASELINE
**	"-" CURVE TURNS TO THE LEFT

PREPARED BY THE CONSULTING FIRM OF McCormick Taylor (Engineers & Planners Since 1946)

RECOMMENDED 8/28/2013 DATE

SEAL

RW-01

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 20 40 60 FEET

PAVEMENT & REHABILITATION - NORTH I, 2012

CONTRACT	BRIDGE NO.	N/A
T201206101	DESIGNED BY: LB	
COUNTY	CHECKED BY: JMH	
NEW CASTLE		

RIGHT-OF-WAY PLAN

SHEET NO.

TOTAL SHTS.

8/28/2013
...\YWOOL_SOUTHBRIDGE.dgn