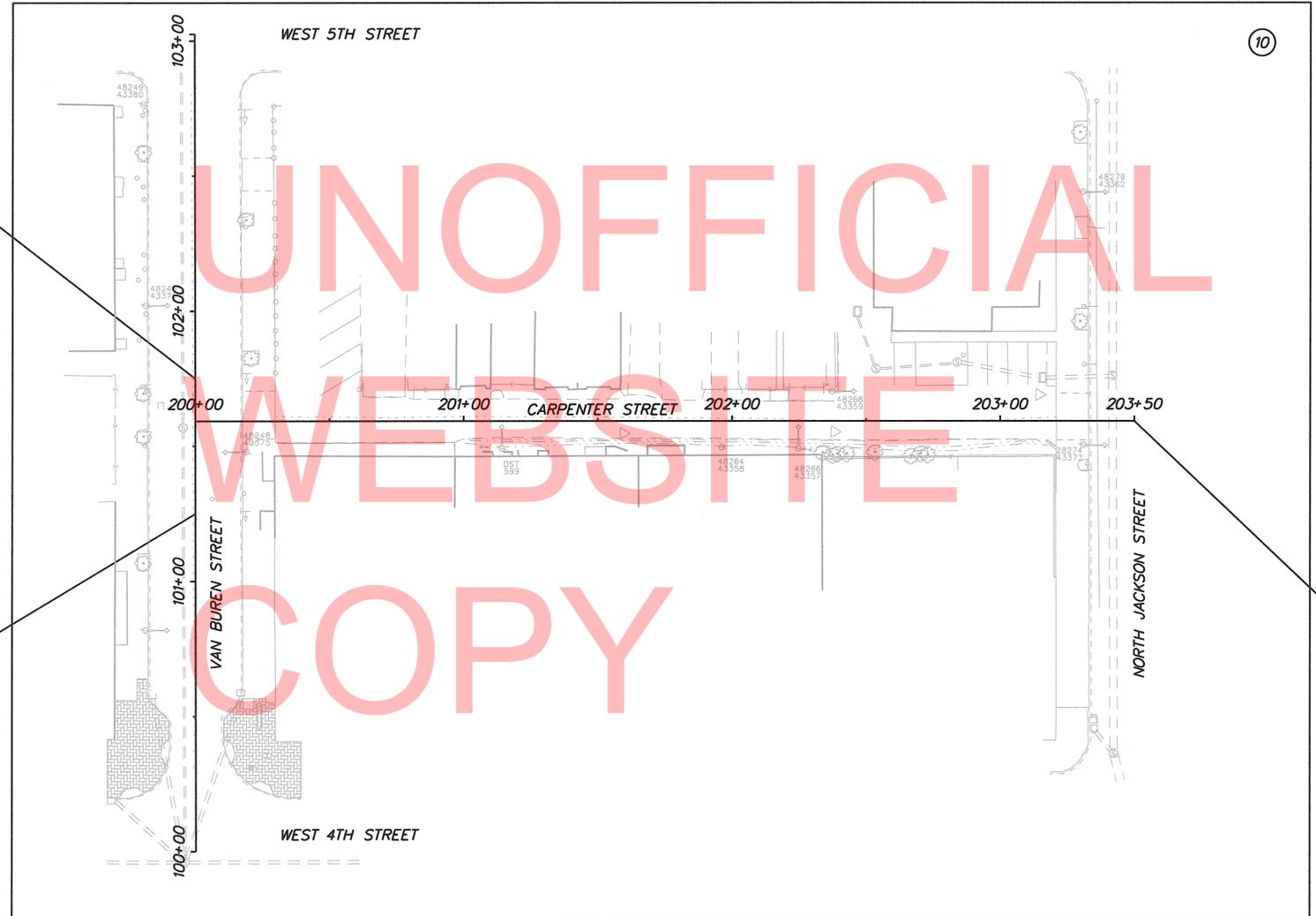
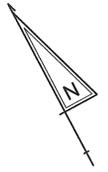




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**LIMIT OF CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 102+00.00**

**BEGIN CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 101+35.00**

**END CONSTRUCTION  
CONTRACT NO. T201020007  
CARPENTER STREET  
STATION 203+35.00**

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<b>DELAWARE DEPARTMENT OF TRANSPORTATION</b>	ADDENDUMS / REVISIONS	SCALE FEET	<b>CARPENTER STREET ENHANCEMENTS, CITY OF WILMINGTON</b>	CONTRACT T201020007	BRIDGE NO. -	<b>PLAN SHEET INDEX</b>	SHEET NO. 2
					COUNTY NEW CASTLE		DESIGNED BY: AMW CHECKED BY: WFC

## EXISTING SYMBOLS

DRAINAGE	
	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
	DRAINAGE INLET
	DRAINAGE JUNCTION BOX
	DRAINAGE MANHOLE
	DRAINAGE PIPE AND FLOW ARROW
	DRAINAGE PIPE HEADWALL
	RIPRAP - AREA FEATURE
	RIPRAP - LINEAR FEATURE

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

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

RIGHT-OF-WAY SYMBOLS	
	PROPERTY MARKER - CONCRETE MON.
	PROPERTY MARKER - IRON PIPE
	HISTORIC RIGHT-OF-WAY BASELINE
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING DENIAL OF ACCESS
	EXISTING R/W & DENIAL OF ACCESS

SURVEY CONTROL & MONUMENTATION	
	SURVEY BENCHMARK LOCATION
	SURVEY TIE POINT LOCATION
	SURVEY TRAVERSE POINT
	POINT OF CURVATURE OR TANGENCY
	POINT OF INTERSECTING TANGENTS

UTILITY	
	SOIL BORING LOCATION
	UTILITY TEST HOLE LOCATION
	CABLE TV DISTRIBUTION BOX
	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
	GAS MANHOLE
	GAS METER
	GAS VALVE
	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
	SANITARY SEWER MANHOLE
	SANITARY SEWER VALVE
	SANITARY SEWER VENT OR CLEANOUT
	SEPTIC DRAIN FIELD
	TELEPHONE BOOTH
	TELEPHONE MANHOLE
	TELEPHONE TEST POINT
	TRAFFIC - CONDUIT JUNCTION WELL
	TRAFFIC - LIGHT POLE AND BASE
	TRAFFIC - PEDESTRIAN POLE & BASE
	TRAFFIC - SIGNAL CABINET & BASE
	TRAFFIC - SIGNAL POLE AND BASE
	UTILITY BOX
	UTILITY POLE GUY WIRE ANCHOR
	UTILITY POLE
	WATER - FIRE HYDRANT
	WATER METER
	WATER VALVE
	WELL HEAD
	MANHOLE - UNDETERMINED OWNER

UTILITY COMPANY FACILITIES	
	ARTESIAN WATER (UNDERGROUND)
	DELMARVA POWER (ELECTRIC)
	DELMARVA POWER (GAS)
	CITY OF WILMINGTON WATER
	COMCAST
	VERIZON
	CAVALIERE TELEPHONE
	AT&T TRANSMISSION

CONSTRUCTION	
	CONCRETE SAFETY BARRIER - PERMANENT
	BIOFILTRATION SWALE
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	BRICK PATTERNED SURFACE
	BUTT JOINT
	CONSTRUCTION BASELINE
	CONSTRUCTION SAFETY FENCE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB & GUTTER, TYPE 4
	CURB RAMP
	CLEAR ZONE
	DRAINAGE INLET
	DITCH
	FENCE - METAL
	FENCE - WOOD
	FLARED END SECTION
	GUARDRAIL, TYPE 1
	GUARDRAIL, TYPE 2
	GUARDRAIL, TYPE 3
	GUARDRAIL END ANCHORAGE
	GUARDRAIL END TREATMENT, TYPE 1
	GUARDRAIL END TREATMENT, TYPE 2
	GUARDRAIL END TREATMENT, TYPE 3
	HORIZONTAL CLEARANCE
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
	LIMIT OF CONSTRUCTION
	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK @ 4"
	P.C.C. SIDEWALK @ 6"
	UNDERDRAIN
	UNDERDRAIN OUTLET

RIGHT-OF-WAY SYMBOLS	
	PROPOSED RIGHT-OF-WAY MONUMENT
	PROPOSED DENIAL OF ACCESS
	PROPOSED PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED R/W & DENIAL OF ACCESS
	TEMPORARY CONSTRUCTION EASEMENT
	PROPOSED RIGHT-OF-WAY BASELINE

## PROPOSED SYMBOLS

IDENTIFIERS	
	ADJUST BY CONTRACTOR
	ADJUST BY OTHERS
	CONCRETE SAFETY BARRIER
	CURB OR CURB & GUTTER
	CONVERT TO JUNCTION BOX
	CONVERT TO DRAINAGE MANHOLE
	CURB OPENING
	CURB RAMP / TYPE
	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
	CONSTRUCTION SAFETY FENCE
	DRAINAGE INLET
	DO NOT DISTURB
	ENERGY DISSIPATOR
	FENCE
	FLARED END SECTION
	FILL WITH FLOWABLE FILL
	FILTRATION STRUCTURE
	GUARDRAIL
	JUNCTION BOX
	MANHOLE
	MONUMENT - RIGHT-OF-WAY
	PIPE
	RELOCATE BY CONTRACTOR
	RELOCATE BY OTHERS
	REMOVE BY CONTRACTOR
	REMOVE BY OTHERS
	UNDERDRAIN / LENGTH
	UNDERDRAIN OUTLET PIPE

LANDSCAPING	
	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

TRAFFIC	
	ITMS CONDUIT
	SIGNAL CONDUIT
	CONDUIT JUNCTION WELL
	LUMINAIRE
	PAVEMENT MARKINGS
	PAVEMENT STRIPING
	TRAFFIC SIGN

PAVEMENT SECTION(S)	
	2" SUPERPAVE, TYPE C WMA
	6" SUPERPAVE, TYPE B WMA
	8" GRADED AGGREGATE BASE COURSE, TYPE B
	WARM MIX ASPHALT PATCHING
	BRICK PAVER SIDEWALK (HERRING BONE PATTERN)
	BRICK PAVER SURFACE (RUNNING BOND PATTERN)
	2" MILL AND OVERLAY

GENERAL NOTES

- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2001, THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2001, AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "MUTCD," DATED 2011, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.
- THE CONTRACTOR SHALL GIVE TWO (2) WEEKS NOTICE TO THE PROPERTY OWNER WHEN ANY FIXTURE, SHRUB OR OTHER OBJECT MUST BE REMOVED FROM THE RIGHT OF WAY OR EASEMENT AREA. IF THE OWNER HAS NOT ATTEMPTED TO SALVAGE THIS PROPERTY, THE CONTRACTOR SHALL REMOVE IT WITHOUT OBLIGATION. COMPENSATION SHALL BE INCIDENTAL TO THE CONTRACT.
- THE ENDS OF ALL CURBS SHALL BE DEPRESSED FLUSH WITH THE PAVEMENT AT A RATIO OF TWELVE TO ONE (12:1) UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL PVC SLEEVES (4" INSIDE MINIMUM DIAMETER, 6" INSIDE MAXIMUM DIAMETER) IN PROPOSED CONCRETE SIDEWALKS, ISLANDS, AND MEDIANS FOR FUTURE TRAFFIC SIGN POSTS AS DIRECTED BY THE ENGINEER. THE LOWER END OF THE SLEEVE SHALL SIT ON THE TOP OF THE SUBBASE MATERIAL. THE COST SHALL BE INCIDENTAL TO THE CONTRACT.
- STAGING AREAS - PROPER EROSION AND SEDIMENT CONTROL MEASURES AS DETERMINED BY THE ENGINEER SHALL BE INSTALLED IN ALL STAGING AREAS. ALL AREAS USED BY THE CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE CONTRACT. IF THE STAGING AREA IS PAVED, IT SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF THE AREA IS UNPAVED, IT SHALL BE RE-GRADED, TOPSOILED, SEEDED AND MULCHED IN ACCORDANCE WITH DELAWARE STANDARD SPECIFICATIONS 732, 734 AND 735, FOR TOPSOIL, SEED AND MULCH RESPECTIVELY, TO THE SATISFACTION OF THE ENGINEER. THE SEED SHALL ADHERE TO THE SPECIFICATIONS OF SECTION 734 FOR PERMANENT GRASS SEEDING - DRY GROUND. ALL COSTS ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH REESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE. ALL STAGING AREAS SHALL BE SECTIONED OFF FROM THE TRAVELING PUBLIC USING TRAFFIC CONTROL DEVICES APPROVED BY THE ENGINEER, ALL COSTS SHALL BE PAID BY THE RESPECTIVE TRAFFIC CONTROL ITEM.
- SITE REVIEWER - AN EROSION CONTROL SITE REVIEWER SHALL BE A PERSON FROM THE CONTRACTOR'S STAFF ASSIGNED TO EROSION AND SEDIMENT CONTROL IMPLEMENTATION AND MAINTENANCE AND SHALL BE REQUIRED ON SPECIFIC PROJECTS. THE NAME AND DNREC CERTIFICATION NUMBER OF EACH SITE REVIEWER SO REQUIRED SHALL BE SUBMITTED TO THE DEPARTMENT. THE NAME OF THE DELAWARE REGISTERED PROFESSIONAL ENGINEER PROVIDING DIRECTION AND SUPERVISION OF THE SITE REVIEWER, AS REQUIRED IN SECTION 12.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, SHALL ALSO BE SUBMITTED TO THE DEPARTMENT. THE SITE REVIEWER REQUIREMENTS IN EFFECT ON THIS PROJECT SHALL BE MARKED WITH AN "X" BELOW:

EROSION POTENTIAL FOR THIS PROJECT	SITE REVIEWER REQUIREMENT
( ) INSIGNIFICANT	NONE
( x ) MINOR	CONTRACTOR CERTIFICATION COURSE TRAINING ONLY, AS DEFINED IN SECTION 13 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
( ) MEDIUM	AT THE TIME OF BID OF THE CONTRACT, EITHER THE SUPERINTENDENT OR A SEPARATE INDIVIDUAL FROM THE CONTRACTOR'S STAFF SHALL BE A CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 12 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
( ) MAJOR	SUPERINTENDENT AND AN INDIVIDUAL FROM CONTRACTOR'S STAFF SHALL BE CCR. ONE INDIVIDUAL FROM THE CONTRACTOR'S STAFF MUST BE A CCR AT THE TIME OF BID OF THE CONTRACT. THE SUPERINTENDENT MUST BECOME A CCR WITHIN ONE YEAR AFTER THE AWARD OF CONTRACT.

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

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

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

( )	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
( X )	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR.
( )	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE SUPERVISION OF THE INSTALLATION, OPERATION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT SHALL NOT BE THE ATSSA SUPERVISOR.

- THE DISTURBED AREA FOR THIS PROJECT IS 0.23 ACRES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO THE CONSTRUCTION SITE POLLUTION PREVENTION SPECIFICATIONS AS DETAILED IN SECTION 3.6 OF THE "DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK". ALL COSTS ASSOCIATED WITH ADHERING TO THE STANDARDS SHALL BE INCIDENTAL TO THE OVERALL CONTRACT COSTS.
- THE EROSION AND SEDIMENT CONTROL PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE EROSION AND SEDIMENT CONTROL PLANS ARE VALID FOR A THREE YEAR PERIOD, BEGINNING ON THE DATE THE STORMWATER ENGINEER SIGNED THE CONSTRUCTION TITLE SHEET. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE THREE YEARS, THE CONTRACTOR SHALL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE EROSION AND SEDIMENT CONTROL PLAN APPROVAL. DELDOT WILL REVIEW THE CURRENT EROSION AND SEDIMENT CONTROL PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.

- EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. COMPLETENESS OR CORRECTNESS THEREOF IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES INVOLVED IN ORDER TO OBTAIN THE MOST ACCURATE INFORMATION AVAILABLE AS TO UTILITY LOCATION AND ELEVATION. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT NOTIFYING THEIR OWNERS AT LEAST TWO WORKING DAYS (48 HOURS) IN ADVANCE. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AN ANY DAMAGE DONE TO THEM DUE TO HIS/HER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE. TO LOCATE EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELMARVA THREE (3) CONSECUTIVE WORKING DAYS PRIOR TO EXCAVATION, AT 1-800-282-8555.
- THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WORK WITH ANY CONSTRUCTION ACTIVITY BY UTILITY COMPANIES, OR ADJACENT CONSTRUCTION CONTRACTS. PROPOSED UTILITY RELOCATIONS ARE SHOWN ON THE PLANS. REFER TO UTILITY STATEMENT FOR DETAILED SCOPE AND TIMING OF UTILITY WORK.
- ALL PROPOSED UTILITY WORK SHOWN ON THE PLANS SHALL BE INSTALLED BY THE RESPECTIVE UTILITY COMPANY, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL SUPPLY MESSAGE BOARDS THAT ARE TO BE PLACED TEN (10) DAYS PRIOR TO ANY ROAD CONSTRUCTION AND THE FIRST FIVE (5) DAYS OF CONSTRUCTION. THE PROPER WORDING ON THE MESSAGE BOARD WILL NEED TO BE COORDINATED WITH THE DISTRICT SAFETY OFFICER.
- THE CONTRACTOR SHALL HAVE THE RIGHT-OF-WAY AND EASEMENT LINES STAKED OUT AND VERIFIED PRIOR TO PERFORMING ANY WORK. THE RIGHT OF WAY LINES MUST REMAIN STAKED FOR THE DURATION OF THE WORK. PAYMENT IS INCIDENTAL TO ITEM 763501 - CONSTRUCTION ENGINEERING.
- IF GPS IS UTILIZED FOR THIS PROJECT THE CONTRACTOR SHALL LOCALIZE ON THE SITE SPECIFIC CONTROL AS PROVIDED. ALL COSTS ARE INCIDENTAL TO ITEM 763501.

PROJECT NOTES

SECTION 100

- ANY DAMAGE DONE BY THE CONTRACTOR TO ITEMS NOTED TO BE RELOCATED OR RESET BY OTHERS OR BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL, AS PART OF HIS PROJECT SCHEDULE, SUBMIT TO THE ENGINEER AN ESTIMATE OF THE MONTHLY PAYMENTS EXPECTED TO BE RECEIVED ON THE CONTRACT. THIS WILL BE REFERENCED AS THE "MONTHLY PAYMENT CHART".

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

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

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

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

COSTS TO PREPARE AND/OR UPDATE THE "MONTHLY PAYMENT CHART" ARE ADDRESSED AS FOLLOWS:

- ON CONTRACTS REQUIRING CPM SCHEDULES AND UPDATES, PREPARATION OF THE INITIAL CHART SHALL BE INCIDENTAL TO ITEM 763508. UPDATES SHALL BE INCIDENTAL TO ITEM 763509.
- ON CONTRACTS NOT REQUIRING CPM SCHEDULES, THE COST TO PREPARE AND UPDATE THE "MONTHLY PAYMENT CHART" SHALL BE INCLUDED IN ITEM 763000, INITIAL EXPENSE.

- MOWING OF THE ROADSIDE WITHIN THE PROJECT LIMITS SHALL BE AT THE DISCRETION OF THE ENGINEER, AS IDENTIFIED IN THE STANDARD SPECIFICATIONS. THE COST OF MOWING SHALL BE INCIDENTAL TO ALL CONTRACT ITEMS.

SECTION 200

- THE CONTRACTOR SHALL REMOVE AND RESET ALL MAILBOXES TO MAINTAIN MAIL SERVICE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RELOCATE MAILBOXES AS REQUIRED BY THE PROPOSED GEOMETRICS AND AS DIRECTED BY THE ENGINEER. WHEN RELOCATING MAILBOXES IN CURBED SECTIONS, THE FACE OF THE MAILBOX SHALL BE FLUSH WITH THE BACK EDGE OF CURB. WHEN RELOCATING MAILBOXES IN OPEN SECTIONS, THE FACE OF THE MAILBOX SHALL SET BACK 8 INCHES FROM THE EDGE OF THE PAVED SHOULDER. THE BOTTOM OF THE MAILBOX SHALL BE SET 46 INCHES ABOVE THE ROADWAY SURFACE. MAILBOXES LOCATED AT DRIVEWAY ENTRANCES SHALL BE PLACED ON THE FAR SIDE OF THE DRIVEWAY IN THE DIRECTION OF TRAVEL. POSTS BEING RESET IN CONCRETE SIDEWALK SHALL BE PLACED IN AN APPROPRIATE SIZE PVC SLEEVE. COST FOR ALL WORK AND MATERIALS SHALL BE INCIDENTAL TO ITEM 201000 - CLEARING AND GRUBBING.
- IN AREAS WHERE TREES OR SHRUBS WILL BE OVERHANGING THE PROPOSED SIDEWALK, PRUNING MAY BE NECESSARY TO ACHIEVE A VERTICAL CLEAR SPACE OF 10 FEET ABOVE THE PROPOSED SIDEWALK ELEVATION. THE CONTRACTOR SHALL PRUNE EXISTING TREE AND SHRUB BRANCHES, WHICH OVERHANG THE SIDEWALK, IN ACCORDANCE WITH I.S.A. STANDARDS. THE CONTRACTOR SHALL NOTIFY DELDOT'S ROADSIDE ENVIRONMENTAL ADMINISTRATOR, EUGENE 'CHIP' ROSAN, JR. (302) 760-2185 AND/OR HIS DESIGNEE, AT LEAST TWO (2) DAYS PRIOR TO THE PRUNING OPERATION. ALL COSTS ASSOCIATED WITH THE ABOVE WORK TO BE PAID UNDER ITEM 201000 - CLEARING AND GRUBBING.
- THE ENGINEER MAY REQUIRE THE CONTRACTOR TO EXCAVATE TEST PITS ALONG THE PROPOSED CONSTRUCTION AT POINTS OF POSSIBLE UTILITY CONFLICTS, TO DETERMINE IF CONFLICTS EXIST. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR, WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED. THE ENGINEER SHALL ULTIMATELY DETERMINE THE SOLUTION TO THE UTILITY CONFLICT. TEST HOLES SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 208000, BUT ONLY TO THE ACTUAL DEPTH EXCAVATED.

SECTION 200

- ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: FOUNDATIONS, GATES, HANDRAILS, STAIRWELLS/WINDOWWELLS AND STRUCTURES, WHICH ARE NOT DESIGNATED TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION.
- IN ORDER TO INSTALL PROPOSED CURB, WHERE EXISTING CONCRETE STAIRWELLS/WINDOWWELLS ARE LOCATED ALONG THE BRICK/BLOCK WALL ON THE SOUTH SIDE OF CARPENTER STREET, THE CONTRACTOR SHALL REMOVE THE CONCRETE TO A MINIMUM DEPTH OF 18 INCHES BELOW THE PROPOSED ELEVATIONS OR 18 INCHES BELOW WALL OPENING WHICH EVER IS GREATER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN THE FIELD. ALL COSTS PAID UNDER ITEM \*211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS. THE CONTRACTOR SHALL FILL VOIDS WITH BORROW, TYPE A, WHERE REQUIRED, PAID UNDER ITEM \*209001.
- THIS PROJECT IS COVERED UNDER A "NPDES" GENERAL PERMIT FOR CONSTRUCTION, UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOIS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S TEAM SUPPORT SECTION. A COPY OF THE GENERAL PERMIT OR THE NOICAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.
- REMOVAL OF EXISTING UNDERDRAIN IF ENCOUNTERED SHALL BE INCIDENTAL TO ITEM 202000. CONNECTING TO AN EXISTING UNDERDRAIN SYSTEM SHALL BE INCIDENTAL TO THE UNDERDRAIN ITEM BEING INSTALLED AS SHOWN ON THE PLANS IF REQUIRED.
- UNSUITABLE MATERIALS FROM ROADWAY AND UNDERCUT EXCAVATION SHALL NOT BE USED AS FILL AND SHALL BE LEGALLY DISPOSED OF OUTSIDE THE PROJECT AREA. ALL COSTS ASSOCIATED WITH THE REMOVAL AND DISPOSAL OF THIS MATERIAL SHALL BE INCIDENTAL TO THE ITEM BEING REMOVED.
- EXCEPT WHERE NOTED ON THE PLANS, THE CONTRACTOR SHALL CLEAR ALL TREES AND SHRUBS WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL PROTECT TREES NOTED ON THE PLANS BY "DND" BY PLACING CONSTRUCTION SAFETY FENCE AT THE DRIPLINE OF THE TREES WITHIN THE LIMIT OF CONSTRUCTION AS SHOWN ON THE PLANS. THIS SHALL BE INCIDENTAL TO ITEM 201000.
- ALL TREE STUMPS TO BE REMOVED SHALL BE ENTIRELY REMOVED REGARDLESS OF DEPTH, UNLESS AS NOTED ON PLANS. BURIAL OF ORGANIC MATTER IS NOT PERMITTED. CHIPPED MATERIAL MUST BE REMOVED PRIOR TO PLACING EMBANKMENT OR TOPSOIL.
- ROADSIDE AMENITIES WITHIN THE LIMITS OF CONSTRUCTION OR EASEMENT AREAS THAT ARE TO REMAIN IN PLACE AND ARE NOTED BY "DND" SHALL BE PROTECTED BY THE CONTRACTOR WITH SAFETY FENCE OR OTHER MEASURES AS DIRECTED BY THE ENGINEER. ALL COSTS SHALL BE INCIDENTAL TO ITEM 201000. ANY DAMAGE TO THESE TO THESE AMENITIES WHICH IS DONE BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- ALL EXISTING PIPES TO BE REMOVED SHALL BE HANDLED IN ACCORDANCE WITH SECTION 202.04.
- EXISTING PROPERTY MARKERS AND MONUMENTS THAT WILL BE DISTURBED DURING CONSTRUCTION SHALL BE REMOVED WITH REASONABLE CARE AND STORED PRIOR TO CLEARING AND GRUBBING. AFTER CONSTRUCTION, THE CONTRACTOR SHALL RESET THE PROPERTY MARKERS IN ACCORDANCE WITH SECTION 107.29 AT THE INTERSECTION OF THE RIGHT-OF-WAY AND PROPERTY LINE. WHERE MARKERS ARE TO BE RESET IN PROPOSED P.C.C. CONCRETE SIDEWALK, A PK NAIL SHALL BE SET IN THE CONCRETE TO IDENTIFY THE PROPERTY CORNER, IF EXISTING RIGHT-OF-WAY MARKER IS NOT RE-USABLE AS A RESULT OF THE METHOD THE CONTRACTOR USED TO REMOVE OR RESET IT, THE CONTRACTOR SHALL REPLACE IT WITH A COMPARABLE MARKER. ANY DISTURBED MARKERS SHALL BE RESET BY A REGISTERED DELAWARE PROFESSIONAL LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- TYPE A BORROW SHALL BE USED TO BACKFILL ALL DRY UNDERCUT AREAS AS DIRECTED BY THE ENGINEER.

SECTION 300

18. A. THE CONTRACTOR MAY ELECT TO USE THE FOLLOWING MATERIALS FOR ITEM 302007 (GRADED AGGREGATE BASE COURSE, TYPE B) PROVIDED THEY MEET THE REQUIREMENTS OF ITEM 302007. DELDOT'S M&R SECTION SHALL HAVE THE FINAL APPROVAL ON USING THE MATERIAL:
- a. CRUSHED STONE (PER STANDARD SPEC. 821)
  - b. CRUSHED CONCRETE (PER STANDARD SPEC. 821)
  - c. HOT MIX MILLINGS (PER SPECIAL PROVISION 302514)

THE CONTRACTOR WILL NOT BE ALLOWED TO MIX DIFFERENT MATERIALS (OR SIMILAR MATERIALS FROM ANY DIFFERENT SOURCES) TO MEET THE REQUIREMENTS OF 302007. ALL THE ABOVE LISTED MATERIALS ARE PERMITTED FOR USE ON THE JOB, PROVIDED THEY ARE SEPARATED INTO APPROVED AREAS. EACH AREA OF BASE COURSE MUST BE CONSTRUCTED USING MATERIALS FROM A SINGULAR SOURCE, FULL DEPTH, IN ORDER THAT PROPER TESTING MAY BE ACCOMPLISHED. THE CONTRACTOR AND DELDOT PROJECT RESIDENT SHALL AGREE ON THE LIMITS OF EACH SOURCE OF MATERIAL PRIOR TO PLACEMENT.

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

C. THE CONTRACTOR MAY ALSO ELECT TO RECYCLE MILLINGS FOR THE USE IN HOT MIX AS PERMITTED BY THE STANDARD SPECIFICATIONS. THE OF THE QUANTITY OF MILLINGS USED FOR THIS PURPOSE, OR FOR BASE COURSE, LIES WITH THE CONTRACTOR.

D. HOT MIX MILLINGS MAY BE GENERATED FROM THE FOLLOWING SOURCES:

- a. MATERIAL MADE AVAILABLE WHEN MILLED ON THIS CONTRACT.
- b. MATERIAL MILLED ON THIS CONTRACT AT THE CONTRACTOR'S CHOICE UNDER ITEM 302007
- c. MILLED MATERIAL FURNISHED ON THE JOB FROM THE CONTRACTOR'S YARD OR OTHER OUTSIDE SOURCE. ALL MILLED MATERIALS SHALL BE REQUIRED TO MEET THE MATERIAL REQUIREMENTS OF ITEM 302514.

E. PAYMENT CLARIFICATION:

- a. SHOULD THE CONTRACTOR ELECT TO MILL PORTIONS OF HOT MIX SHOWN ON THE PLANS TO BE REMOVED UNDER ITEM 202000, THE COST OF MILLING THIS HOT MIX WILL BE INCIDENTAL TO ITEM 202000. THE MILLINGS GENERATED MAY BE RECYCLED INTO HOT MIX, UTILIZED FOR BASE COURSE, OR DISPOSED OF TO AN APPROVED SITE. HAULING COSTS FOR DISPOSAL AND/OR RECYCLING ARE INCIDENTAL TO ITEM 202000.
- b. MILLINGS GENERATED MAY BE RECYCLED INTO HOT MIX, UTILIZED FOR BASE COURSE OR DISPOSED BY THE CONTRACTOR TO AN APPROVED SITE. NO SEPARATE PAYMENT WILL BE MADE FOR TRANSPORTING MILLINGS ON SITE OR TO AN APPROVED SITE.
- c. SHOULD THE CONTRACTOR ELECT TO TEMPORARILY STOCKPILE MILLINGS ON THE JOB SITE FOR LATER USE, ALL COSTS FOR STOCKPILING AND SUBSEQUENT REHANDLING SHALL BE INCIDENTAL TO ITEM 202000.
- d. MILLINGS USED FOR BASE COURSE SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF PROVISION 302514. NO SEPARATE PAYMENT WILL BE MADE TO FURNISH MILLINGS FROM AN OUTSIDE SOURCE OR TRANSPORT MILLINGS WITHIN THE PROJECT LIMITS. MILLINGS USED FOR BASE COURSE WILL BE PAID IN PLACE AT THE UNIT BID PRICE FOR ITEM 302007.
- e. ALL COSTS TO UTILIZE THE MILLINGS IN HOT MIX WILL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE HOT MIX ITEM USING THE RECYCLED MATERIAL.
- f. SPECIAL PROVISION 302514 IS PROVIDED TO SPECIFY THE MEANS OF LAY DOWN AND COMPACTION AS THE MATERIAL REQUIREMENTS FOR MILLINGS USED AS BASE COURSE. ALL COSTS TO BRING THE MILLINGS INTO COMPLIANCE WITH THE REQUIREMENTS OF 302514 AND THE QUANTITY OF MILLINGS USED FOR BASE COURSE WILL BE PAID FOR UNDER ITEM 302007.

SECTION 400

19. THE PAVEMENT SECTION FOR HOT MIX RESIDENTIAL DRIVEWAYS, IF REQUIRED, SHALL BE 2" WARM MIX ASPHALT, TYPE C OVER 8" GRADED AGGREGATE BASE COURSE, UNLESS OTHERWISE IDENTIFIED ON THE PLANS.
20. WHEN COMPACTING WMA ADJACENT TO PROPOSED CONCRETE, THE CONTRACTOR SHALL USE CAUTION NOT TO DAMAGE THE CONCRETE EDGE. HAND COMPACTION TOOLS MAY BE REQUIRED TO ASSURE NO DAMAGE TO THE PLACED CONCRETE. COSTS FOR USING HAND COMPACTION METHODS ARE INCIDENTAL TO THE WMA ITEMS BEING PLACED.

SECTION 600

21. THE DEPARTMENT AND THE CONTRACTOR SHALL INSPECT ALL EXISTING PIPES AND DRAINAGE STRUCTURES TO BE USED IN THE FINAL DRAINAGE SYSTEM AND AGREE ON AND MAKE RECORD OF THE CONDITION PRIOR TO CONSTRUCTION. DAMAGES TO EXISTING PIPES AND DRAINAGE STRUCTURES DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS REQUIRED TO VIDEO INSPECT NEW PIPE AND EXISTING PIPE RUNS (TO BE USED IN THE FINAL SYSTEM) TO CONFIRM CONDITION PRIOR TO ACCEPTANCE. PAYMENT FOR VIDEO INSPECTION OF PIPES WILL BE MADE UNDER ITEM 612529 - VIDEO INSPECTION.

SECTION 700

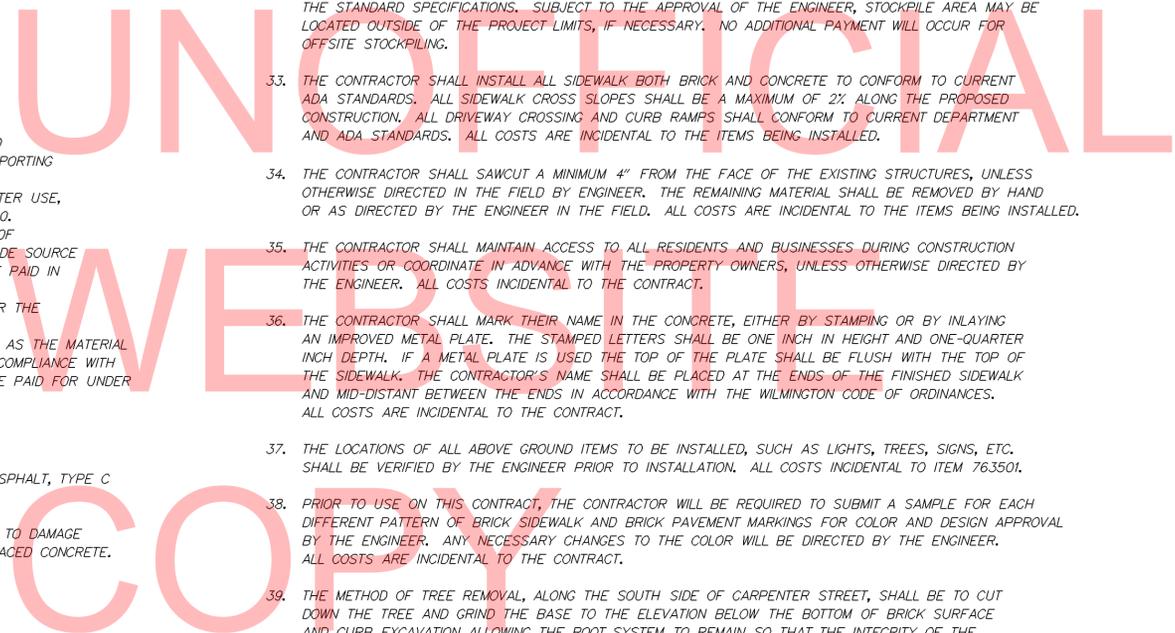
22. IN AREAS WHERE PROPOSED CURB MEETS EXISTING CURB AND THE TWO CURB TYPES ARE NOT SIMILAR, THE PROPOSED CURB SHALL BE TRANSITIONED IN 10 LINEAR FEET OR AS DIRECTED BY THE ENGINEER IN THE FIELD. PAYMENT FOR TRANSITIONING SHALL BE INCIDENTAL TO THE PROPOSED CURB ITEM.
23. WHERE NEW SIDEWALK IS CONSTRUCTED TO MEET EXISTING SIDEWALK, SAWCUT THE EXISTING SIDEWALK OR MEET THE NEAREST EXISTING SIDEWALK JOINT. ALL SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER AND SHALL BE PAID FOR IN ITEM 762002- SAWCUTTING, CONCRETE, FULL DEPTH.
24. STATION AND ELEVATION DATA GIVEN FOR DRAINAGE STRUCTURES ARE TO BE APPLIED ALONG THE CENTERLINE OF THE STRUCTURE WITH ITS INTERSECTION TO THE FLOWLINE FOR CURB INLETS, THE CENTER OF THE STRUCTURE FOR LAWN BASINS AND JUNCTION BOXES, AND THE CENTER OF THE LID FOR MANHOLES.

SECTION 700

25. ALL DISTURBED AREAS WITHIN THE LIMIT OF CONSTRUCTION, SHALL BE TOPSOILED (6" MINIMUM), SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER. ALL COSTS ARE PAID UNDER THE RESPECTIVE ITEMS BEING INSTALLED.
26. THE CONTRACTOR SHALL INSTALL ALL PERMANENT SIGNAGE AND TEMPORARY SIGNAGE AS SHOWN ON THE CONTRACT DOCUMENTS. ALL COSTS COVERED UNDER THE APPROPRIATE ITEMS.
27. ALL PAVED AREAS (INCLUDING DRIVEWAYS) TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT.
28. ALL SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
29. DURING CONSTRUCTION, ALL BARE AREAS SHALL BE STABILIZED AT THE END OF EACH WORK DAY. BARE AREAS SHALL BE EITHER PERMANENTLY STABILIZED OR COVERED WITH GABC.
30. REPLACEMENT OF EXISTING AND/OR DAMAGED RESIDENTIAL ROOF DRAINAGE PIPES UNDER THE PROPOSED SIDEWALK SHALL BE INCIDENTAL TO ITEM 705504 BRICK SIDEWALK.

MISCELLANEOUS

31. THERE ARE NO ENVIRONMENTAL PERMITS ASSOCIATED WITH THIS PROJECT. AS SUCH, AN ENVIRONMENTAL COMPLIANCE SHEET WAS NOT PREPARED.
32. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN AREA SUITABLE FOR STOCKPILING BORROW, TOPSOIL, AND OTHER FILL MATERIAL REQUIRED FOR THE PROJECT IN ACCORDANCE WITH SECTIONS 110.07 AND 110.10 OF THE STANDARD SPECIFICATIONS. SUBJECT TO THE APPROVAL OF THE ENGINEER, STOCKPILE AREA MAY BE LOCATED OUTSIDE OF THE PROJECT LIMITS, IF NECESSARY. NO ADDITIONAL PAYMENT WILL OCCUR FOR OFFSITE STOCKPILING.
33. THE CONTRACTOR SHALL INSTALL ALL SIDEWALK BOTH BRICK AND CONCRETE TO CONFORM TO CURRENT ADA STANDARDS. ALL SIDEWALK CROSS SLOPES SHALL BE A MAXIMUM OF 2% ALONG THE PROPOSED CONSTRUCTION. ALL DRIVEWAY CROSSING AND CURB RAMPS SHALL CONFORM TO CURRENT DEPARTMENT AND ADA STANDARDS. ALL COSTS ARE INCIDENTAL TO THE ITEMS BEING INSTALLED.
34. THE CONTRACTOR SHALL SAWCUT A MINIMUM 4" FROM THE FACE OF THE EXISTING STRUCTURES, UNLESS OTHERWISE DIRECTED IN THE FIELD BY ENGINEER. THE REMAINING MATERIAL SHALL BE REMOVED BY HAND OR AS DIRECTED BY THE ENGINEER IN THE FIELD. ALL COSTS ARE INCIDENTAL TO THE ITEMS BEING INSTALLED.
35. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENTS AND BUSINESSES DURING CONSTRUCTION ACTIVITIES OR COORDINATE IN ADVANCE WITH THE PROPERTY OWNERS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ALL COSTS INCIDENTAL TO THE CONTRACT.
36. THE CONTRACTOR SHALL MARK THEIR NAME IN THE CONCRETE, EITHER BY STAMPING OR BY INLAYING AN IMPROVED METAL PLATE. THE STAMPED LETTERS SHALL BE ONE INCH IN HEIGHT AND ONE-QUARTER INCH DEPTH. IF A METAL PLATE IS USED THE TOP OF THE PLATE SHALL BE FLUSH WITH THE TOP OF THE SIDEWALK. THE CONTRACTOR'S NAME SHALL BE PLACED AT THE ENDS OF THE FINISHED SIDEWALK AND MID-DISTANT BETWEEN THE ENDS IN ACCORDANCE WITH THE WILMINGTON CODE OF ORDINANCES. ALL COSTS ARE INCIDENTAL TO THE CONTRACT.
37. THE LOCATIONS OF ALL ABOVE GROUND ITEMS TO BE INSTALLED, SUCH AS LIGHTS, TREES, SIGNS, ETC. SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION. ALL COSTS INCIDENTAL TO ITEM 763501.
38. PRIOR TO USE ON THIS CONTRACT, THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A SAMPLE FOR EACH DIFFERENT PATTERN OF BRICK SIDEWALK AND BRICK PAVEMENT MARKINGS FOR COLOR AND DESIGN APPROVAL BY THE ENGINEER. ANY NECESSARY CHANGES TO THE COLOR WILL BE DIRECTED BY THE ENGINEER. ALL COSTS ARE INCIDENTAL TO THE CONTRACT.
39. THE METHOD OF TREE REMOVAL, ALONG THE SOUTH SIDE OF CARPENTER STREET, SHALL BE TO CUT DOWN THE TREE AND GRIND THE BASE TO THE ELEVATION BELOW THE BOTTOM OF BRICK SURFACE AND CURB EXCAVATION ALLOWING THE ROOT SYSTEM TO REMAIN SO THAT THE INTEGRITY OF THE WALLS WOULD REMAIN UNDISTURBED. DELMARVA POWER (ELECTRIC) SHALL TRIM THE TREE BRANCHES BELOW THE UTILITY LINES IN ADVANCE OF THE PROJECT. ALL COSTS ARE INCIDENTAL TO ITEM 201000.
40. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING BRICK/BLOCK WALL ALONG THE SOUTH SIDE OF CARPENTER STREET. THE CONTRACTOR SHALL NOT USE VIBRATORY ROLLERS OR OTHER LARGE VIBRATORY COMPACTION EQUIPMENT. THE DEPARTMENT AND THE CONTRACTOR SHALL INSPECT THE EXISTING WALL AND AGREE ON AND MAKE RECORD OF THE CONDITION PRIOR TO CONSTRUCTION. DAMAGES TO THE EXISTING STRUCTURE DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ALL COSTS WILL BE INCIDENTAL TO THE CONTRACT.
41. DUE TO THE CITY OF WILMINGTON'S REMOVE AND REPLACE TREE REQUIREMENTS, THE CONTRACTOR SHALL PLANT SIX (6) ADDITIONAL AMERICAN HOP HORNBEAM TREES (EIGHT IN TOTAL) AT THE DIRECTION OF THE SPONSOR WITHIN A THREE (3) BLOCK RADIUS OF THE PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE LATIN AMERICAN COMMUNITY CENTER FOR THE LOCATION OF THE PLANTINGS.
- (3) TREES AT 417 AND 405 N. HARRISON STREET AND 1201 W. 4TH STREET CORNER
  - (1) TREE AT THE PROPERTY LOCATED AT 1133-1135 W. 4TH STREET
  - (2) TREES AT 301 N. HARRISON STREET
- ALL COSTS SHALL BE PAID UNDER ITEM #737523 - PLANTING. THE POINT OF CONTACT IS:
- MR. RAFAEL CASTRO  
FACILITIES DIRECTOR  
PHONE: (302) 655-7338, EXT. 7704
42. REMOVAL OF EXISTING PAVEMENT (ALL MATERIAL) WITHIN THE LIMITS OF CARPENTER STREET TO BE PAID UNDER ITEM #202000.



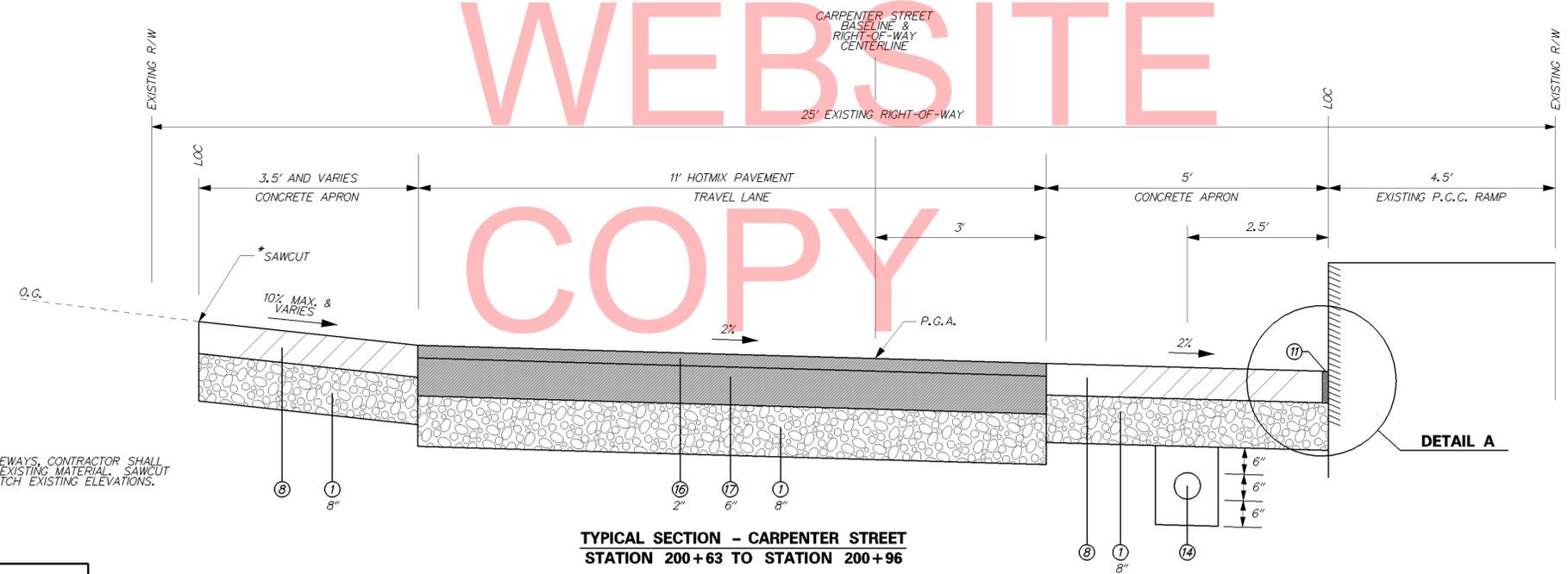
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<b>DELAWARE DEPARTMENT OF TRANSPORTATION</b>	ADDENDUMS / REVISIONS		<b>CARPENTER STREET ENHANCEMENTS, CITY OF WILMINGTON</b>	CONTRACT	BRIDGE NO.	-	<b>NOTES</b>	SHEET NO.
				T201020007	DESIGNED BY: AMW			5
				COUNTY	CHECKED BY: WFC			TOTAL SHTS.
				NEW CASTLE				25

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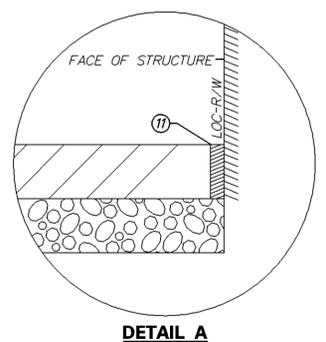


**TYPICAL SECTION - CARPENTER STREET  
STATION 200+30 TO STATION 200+62**



**TYPICAL SECTION - CARPENTER STREET  
STATION 200+63 TO STATION 200+96**

\* AT DRIVEWAYS, CONTRACTOR SHALL MATCH EXISTING MATERIAL, SAWCUT AND MATCH EXISTING ELEVATIONS.



- LEGEND**
- ① ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
  - ② ITEM 302008 - GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING
  - ③ ITEM 401821 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22, PATCHING
  - ④ ITEM 401822 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22, PATCHING
  - ⑤ ITEM 401822 - WMA, SUPERPAVE, BCBC, 160 GYRATIONS, PG 64-22, PATCHING
  - ⑦ ITEM 701014 - PCC CURB, TYPE 1-6
  - ⑧ ITEM 705002 - 6" PCC SIDEWALK
  - ⑨ ITEM 705504 - BRICK SURFACE WITH HAND TIGHT 1/8" JOINTS
  - ⑩ 1" DRY MORTAR MIX SETTING BED INCIDENTAL TO BRICK SURFACE ITEM 705504
  - ⑪ 1/2" EXPANSION JOINT, INCIDENTAL TO THE ITEMS BEING INSTALLED
  - ⑫ 4" PCC SIDEWALK INCIDENTAL TO BRICK SURFACE ITEM 705504
  - ⑬ ITEM 732002 - TOPSOIL, 6" DEPTH  
ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  - ⑭ ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
  - ⑮ ITEM 209001 - BORROW TYPE A
  - ⑯ ITEM 401827 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)
  - ⑰ ITEM 401810 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22 (2 - 3" LIFTS)
  - ⑱ ITEM 701502 - STONE CURB

- PR - POINT OF ROTATION  
PDGA - PROFILE DITCH GRADE APPLICATION  
PGA - PROFILE GRADE APPLICATION
- MAXIMUM SINGLE LIFTS FOR THE FOLLOWING MATERIALS AFTER COMPACTION ARE:  
2" = WMA, TYPE C  
3" = WMA, TYPE B  
6" = WMA, BCBC  
8" = GABC
- NOTES:**
- MAXIMUM ALGEBRAIC DIFFERENCE OF CROSS SLOPES SHALL NOT EXCEED 8%.
  - CONTRACTOR SHALL LOAD TEST ALL SUBGRADE SOIL PRIOR TO THE PLACEMENT OF THE SUBBASE COURSE. ALL UNSUITABLE MATERIAL FOUND SHALL BE EXCAVATED TO THE DEPTH OF STABLE SOIL AND BACKFILLED WITH APPROVED MATERIAL. THE CONTRACTOR SHALL COMPACT ALL MATERIALS TO MEET THE DELDOT STANDARD SPECIFICATIONS.
  - IF REQUIRED, BORROW, TYPE A SHALL BE PLACED IN SUCCESSIVE LAYERS NOT TO EXCEED 8" IN DEPTH, LOOSE MEASUREMENT, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
  - SEE GRADES AND GEOMETRICS SHEETS FOR FURTHER DETAILS.
  - A SPACE BETWEEN PROPOSED CURB (C-5) AND THE EXISTING STRUCTURES VARIES FROM 7" TO 0". THIS VOID SHALL BE FILLED WITH PCC AND SEALED ALONG THE STRUCTURE. ALL COSTS FOR THIS WORK SHALL BE PAID UNDER ITEM 705002 - 6" PCC SIDEWALK.

ADDENDUMS / REVISIONS

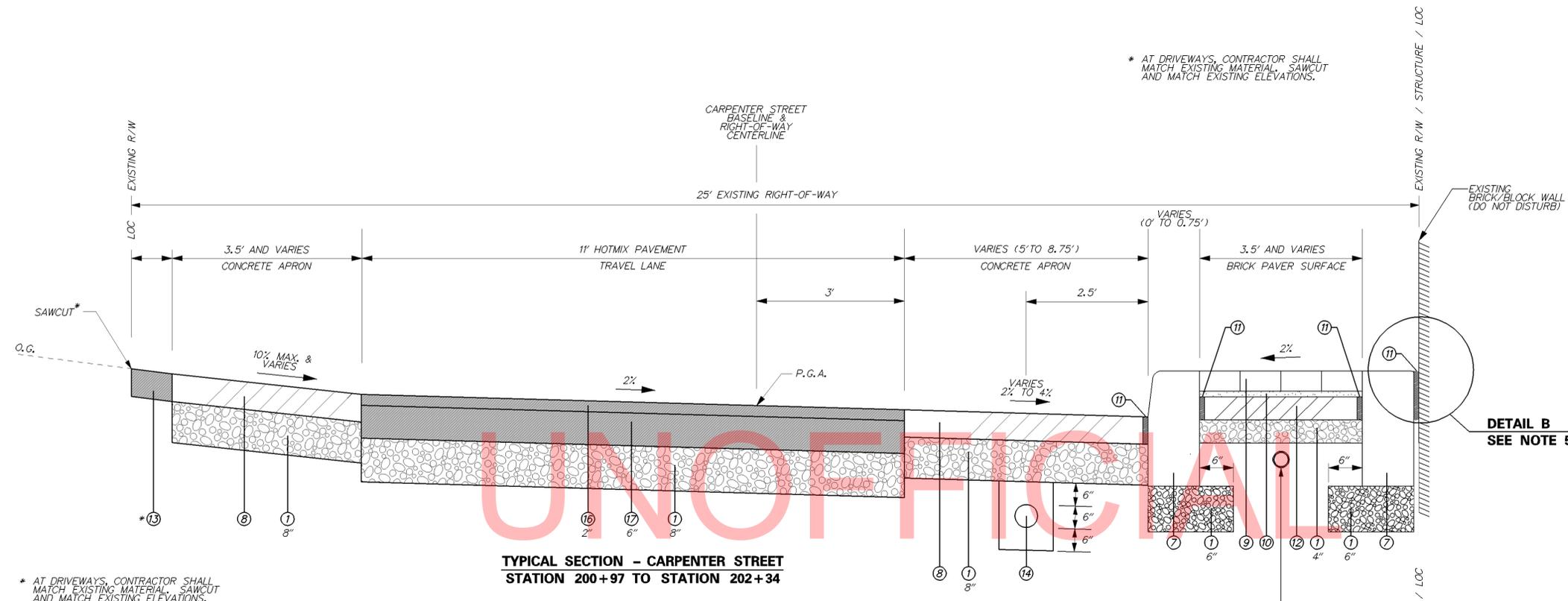
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**CARPENTER STREET ENHANCEMENTS,  
CITY OF WILMINGTON**

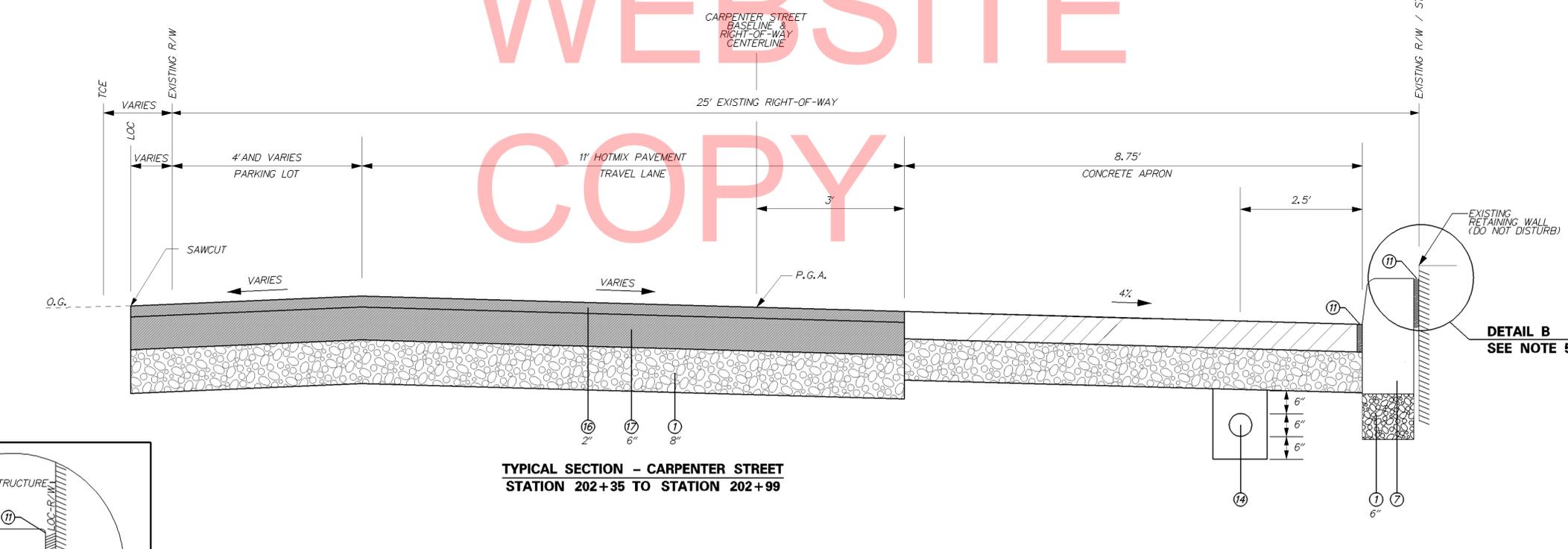
CONTRACT T201020007	BRIDGE NO. -
COUNTY NEW CASTLE	DESIGNED BY: AMW
	CHECKED BY: WFC

<b>TYPICAL SECTIONS</b>	SHEET NO. 6
	TOTAL SHTS. 25

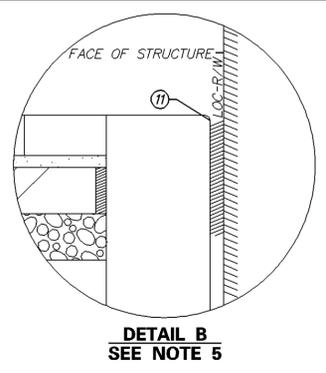
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**TYPICAL SECTION - CARPENTER STREET  
STATION 200+97 TO STATION 202+34**



**TYPICAL SECTION - CARPENTER STREET  
STATION 202+35 TO STATION 202+99**

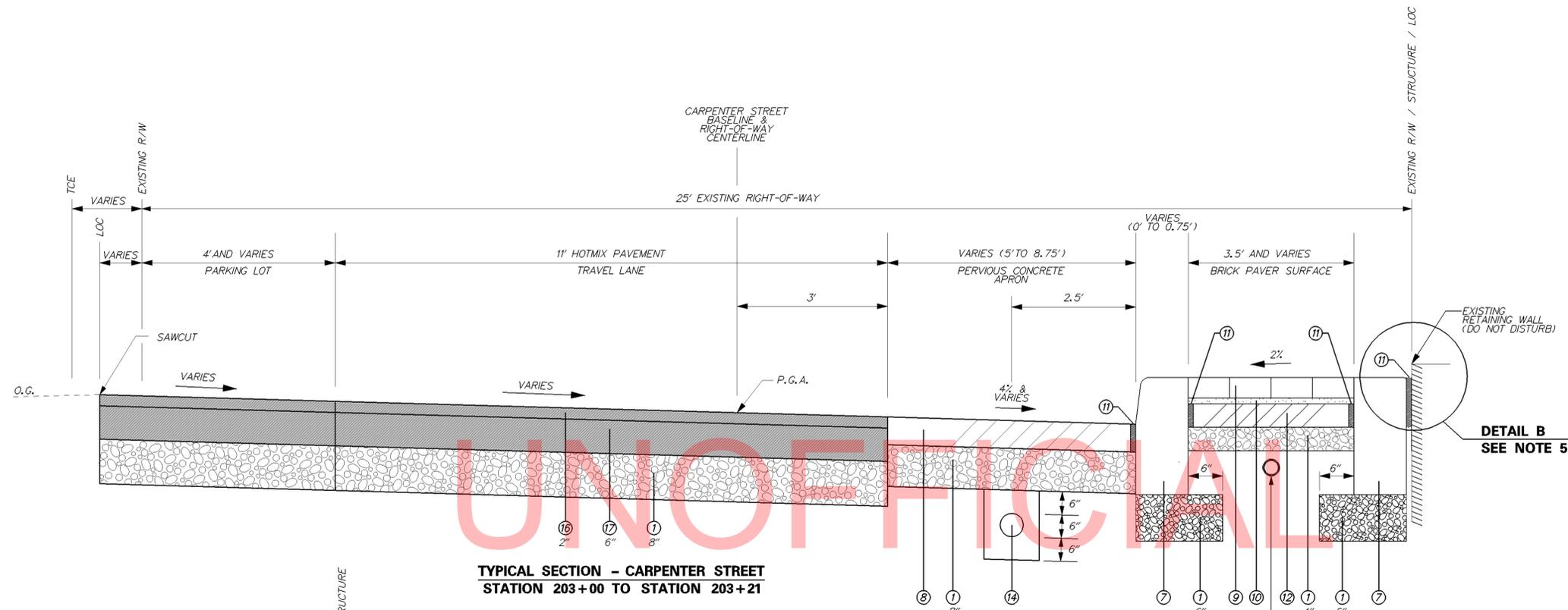


- LEGEND**
- ① ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
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  - ⑦ ITEM 701014 - PCC CURB, TYPE 1-6
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  - ⑪ 1/2" EXPANSION JOINT, INCIDENTAL TO THE ITEMS BEING INSTALLED
  - ⑫ 4" PCC SIDEWALK INCIDENTAL TO BRICK SURFACE ITEM 705504
  - ⑬ ITEM 732002 - TOPSOIL, 6" DEPTH  
ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
  - ⑭ ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
  - ⑮ ITEM 209001 - BORROW TYPE A
  - ⑯ ITEM 401827 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)
  - ⑰ ITEM 401810 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22 (2 - 3" LIFTS)
  - ⑱ ITEM 701502 - STONE CURB

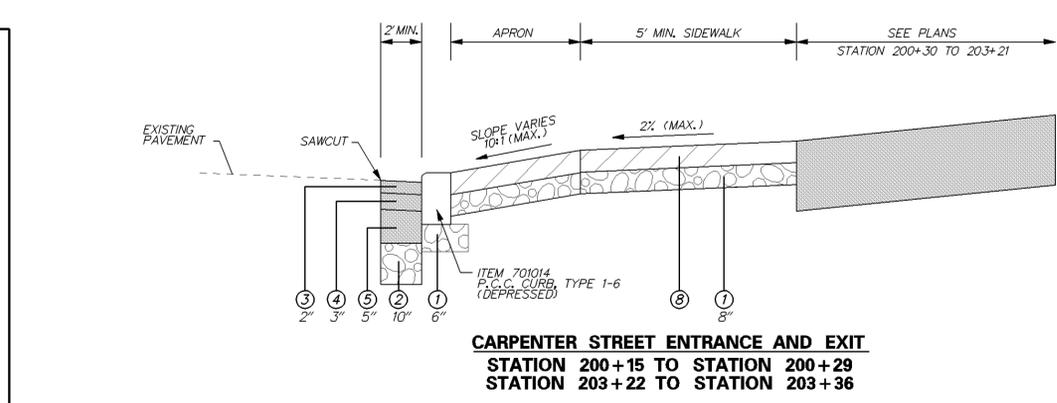
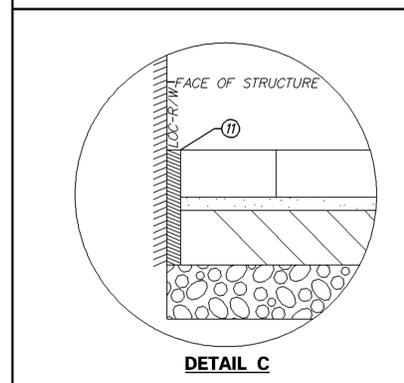
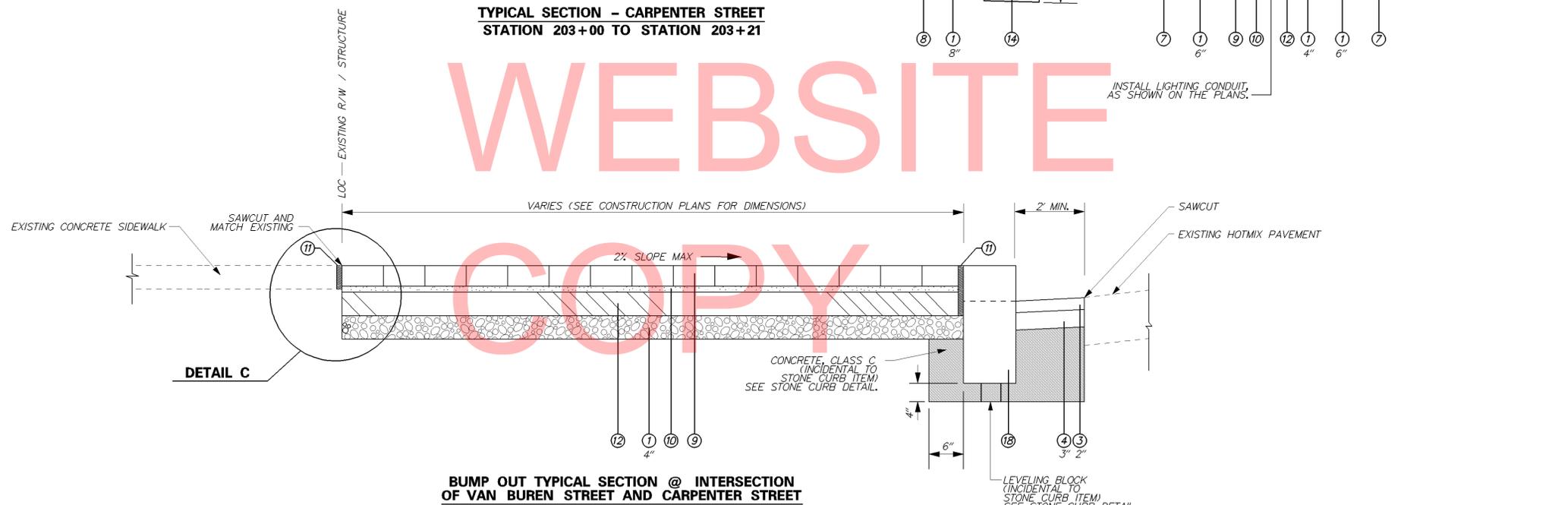
- PR - POINT OF ROTATION  
PDGA - PROFILE DITCH GRADE APPLICATION  
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- MAXIMUM SINGLE LIFTS FOR THE FOLLOWING MATERIALS AFTER COMPACTION ARE:  
2" = WMA, TYPE C  
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- NOTES:**
1. MAXIMUM ALGEBRAIC DIFFERENCE OF CROSS SLOPES SHALL NOT EXCEED 8%.
  2. CONTRACTOR SHALL LOAD TEST ALL SUBGRADE SOIL PRIOR TO THE PLACEMENT OF THE SUBBASE COURSE. ALL UNSUITABLE MATERIAL FOUND SHALL BE EXCAVATED TO THE DEPTH OF STABLE SOIL AND BACKFILLED WITH APPROVED MATERIAL. THE CONTRACTOR SHALL COMPACT ALL MATERIALS TO MEET THE DELDOT STANDARD SPECIFICATIONS.
  3. IF REQUIRED, BORROW, TYPE A SHALL BE PLACED IN SUCCESSIVE LAYERS NOT TO EXCEED 8" IN DEPTH, LOOSE MEASUREMENT, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
  4. SEE GRADES AND GEOMETRICS SHEETS FOR FURTHER DETAILS.
  5. A SPACE BETWEEN PROPOSED CURB (C-5) AND THE EXISTING STRUCTURES VARIES FROM 7" TO 0". THIS VOID SHALL BE FILLED WITH PCC AND SEALED ALONG THE STRUCTURE. ALL COSTS FOR THIS WORK SHALL BE PAID UNDER ITEM 705002 - 6" PCC SIDEWALK.

	ADDENDUMS / REVISIONS	NOT TO SCALE	<b>CARPENTER STREET ENHANCEMENTS, CITY OF WILMINGTON</b>	CONTRACT	BRIDGE NO.	<b>TYPICAL SECTIONS</b>	SHEET NO.
				T201020007	-		7
				COUNTY	DESIGNED BY: AMW		TOTAL SHTS.
				NEW CASTLE	CHECKED BY: WFC		25

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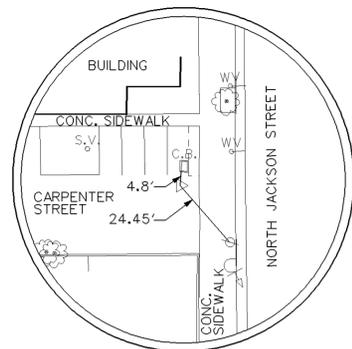
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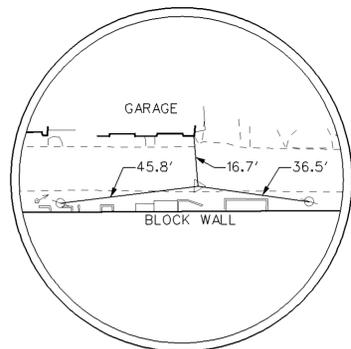
**LEGEND**

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- ② ITEM 302008 - GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING
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- ⑰ ITEM 401810 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22 (2 - 3" LIFTS)
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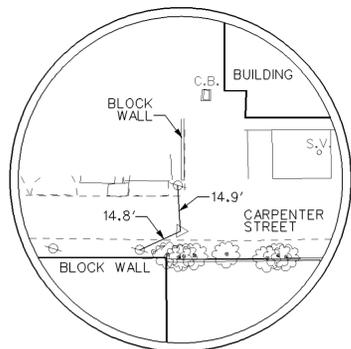
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- NOTES:**
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  3. IF REQUIRED, BORROW, TYPE A SHALL BE PLACED IN SUCCESSIVE LAYERS NOT TO EXCEED 8" IN DEPTH, LOOSE MEASUREMENT, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
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  5. A SPACE BETWEEN PROPOSED CURB (C-5) AND THE EXISTING STRUCTURES VARIES FROM 7" TO 0". THIS VOID SHALL BE FILLED WITH PCC AND SEALED ALONG THE STRUCTURE. ALL COSTS FOR THIS WORK SHALL BE PAID UNDER ITEM 705002 - 6" PCC SIDEWALK.



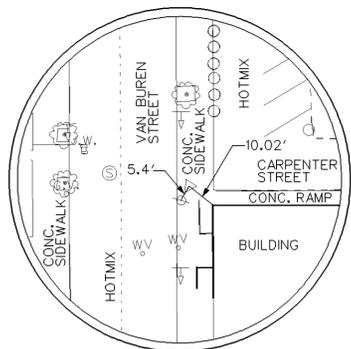
TRAVERSE POINT #1  
P.K. NAIL



TRAVERSE POINT #2  
P.K. NAIL



TRAVERSE POINT #3  
P.K. NAIL



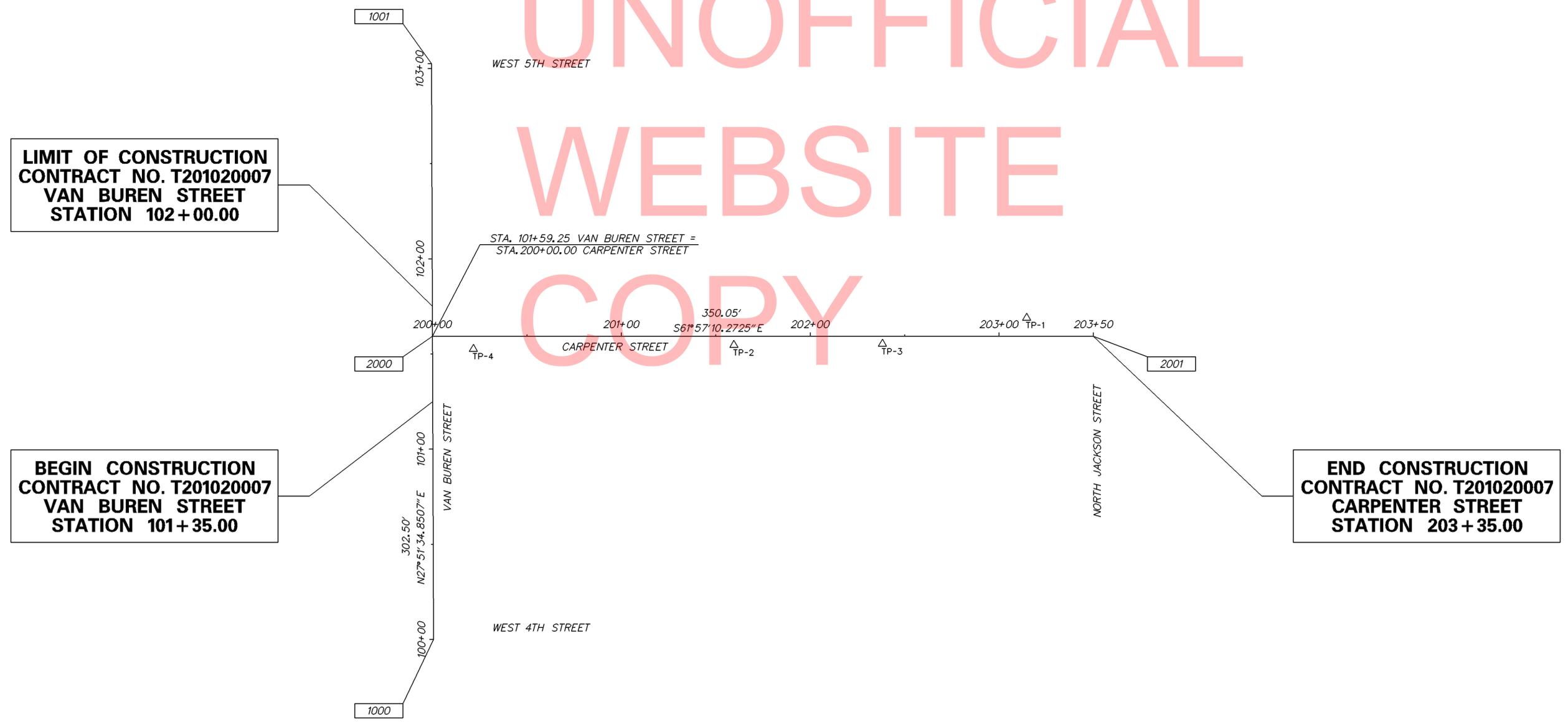
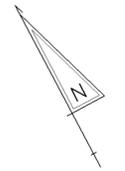
TRAVERSE POINT #4  
P.K. NAIL

HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP-1	203+14.63	-11.54	635490.2788	615689.8705	67.73
TP-2	201+59.64	2.85	635550.4623	615546.3152	75.75
TP-3	202+38.26	2.21	635514.0600	615616.0024	70.98
TP-4	200+21.70	4.81	635613.5868	615423.6497	81.14

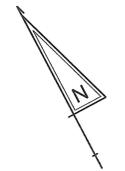
CONSTRUCTION ALIGNMENT CONTROL					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
1000	100+00.00	0.00	635488.7930	615333.1623	
1001	103+02.50	0.00	635756.2317	615474.5229	
2000	200+00.00	0.00	635629.5886	615407.5829	
2001	203+50.00	0.00	635465.0210	615716.4763	

ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM (NAVD 1988) AND HORIZONTAL DATUM NORTH AMERICAN DATUM, NAD 83 (2007).

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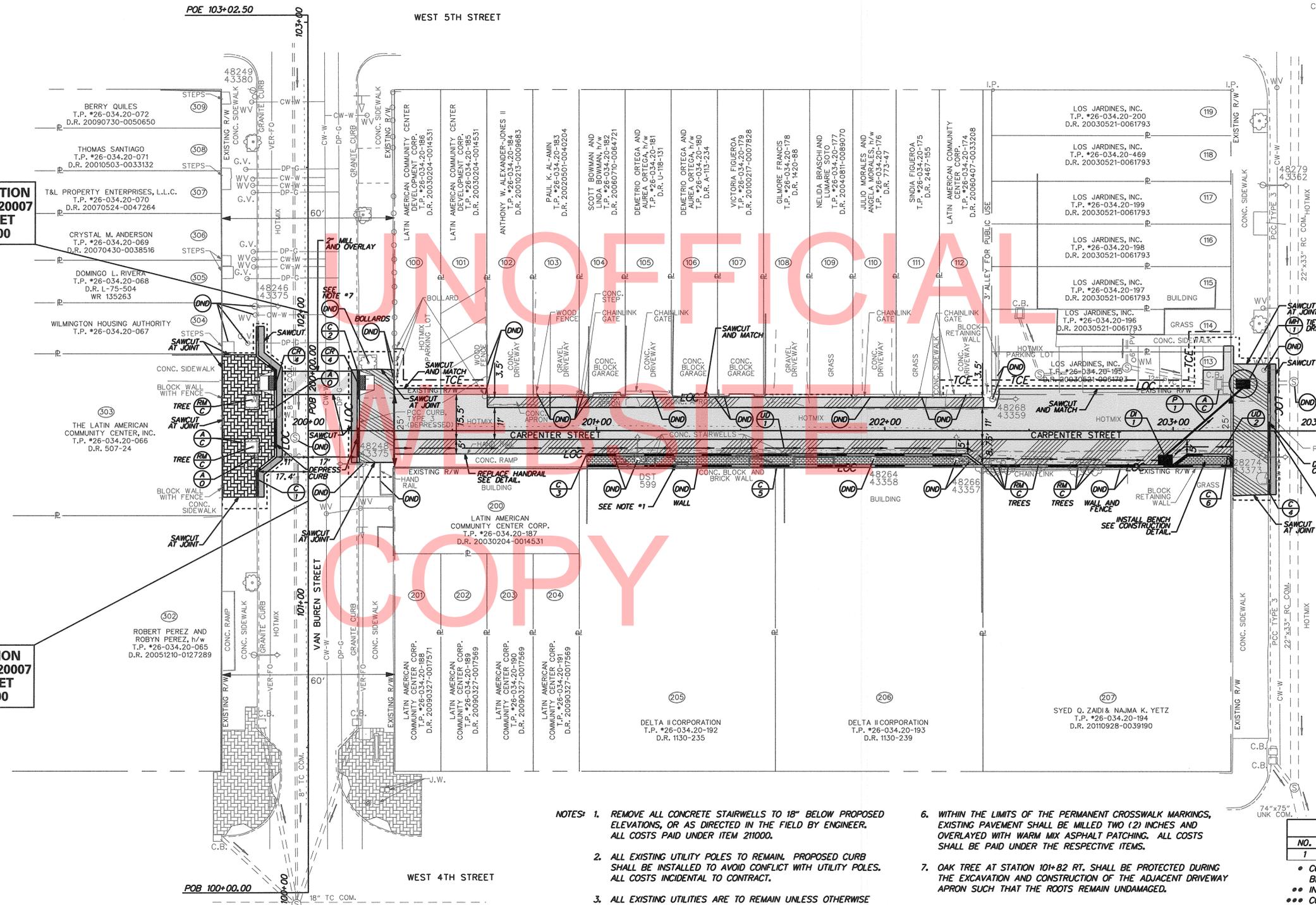
6/12/2012 G:\PROJECTS\08535.00 (Transportation Enhancement Program)\08535.24 (Task 24 - Carpenter St. Alley Enhancements - Final Design)\CADD FILES\h01CSA.dgn 11:19:24



**LIMIT OF CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 102+00.00**

**BEGIN CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 101+35.00**

**END CONSTRUCTION  
CONTRACT NO. T201020007  
CARPENTER STREET  
STATION 203+35.00**



- NOTES:**
1. REMOVE ALL CONCRETE STAIRWELLS TO 18" BELOW PROPOSED ELEVATIONS, OR AS DIRECTED IN THE FIELD BY ENGINEER. ALL COSTS PAID UNDER ITEM 211000.
  2. ALL EXISTING UTILITY POLES TO REMAIN. PROPOSED CURB SHALL BE INSTALLED TO AVOID CONFLICT WITH UTILITY POLES. ALL COSTS INCIDENTAL TO CONTRACT.
  3. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.
  4. PLACE ROOT BARRIER AROUND PROPOSED TREE PLANTING AT STATION 101+54 AND STATION 101+70. SEE LANDSCAPING PLANS FOR TREE PLANTING INFORMATION.
  5. CONTRACTOR SHALL COORDINATE DEPRESSED CURB AT STATION 101+53 LEFT WITH LATIN AMERICAN COMMUNITY CENTER.  
MR. RAFAEL CASTRO  
FACILITIES DIRECTOR  
PHONE: (302) 655-7338, EXT. 7704
  6. WITHIN THE LIMITS OF THE PERMANENT CROSSWALK MARKINGS, EXISTING PAVEMENT SHALL BE MILLED TWO (2) INCHES AND OVERLAYED WITH WARM MIX ASPHALT PATCHING. ALL COSTS SHALL BE PAID UNDER THE RESPECTIVE ITEMS.
  7. OAK TREE AT STATION 101+82 RT. SHALL BE PROTECTED DURING THE EXCAVATION AND CONSTRUCTION OF THE ADJACENT DRIVEWAY APRON SUCH THAT THE ROOTS REMAIN UNDAMAGED.
  8. THE CONTRACTOR SHALL POUR A PCC COLLAR AROUND UTILITY POLES LOCATED WITHIN THE PROPOSED BRICK SIDEWALK PRIOR TO PLACING BRICKS AS DIRECTED BY THE ENGINEER IN THE FIELD. ALL COSTS SHALL BE INCIDENTAL TO ITEM \*705504. SEE CONSTRUCTION DETAILS.

**UNDERDRAIN SCHEDULE**

NO.	SIZE / TYPE	LENGTH	DIS.	TYPE	DIS. EL.
1	6" PEP	266.0	D1-1		65.17'
2	6" PEP	23.0	D1-1		64.82'

**CURB SCHEDULE**

NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	STONE CURB	65.0
2	PCC CURB, TYPE 1-6	32.0
3	PCC CURB, TYPE 1-6	142.0
4	PCC CURB, TYPE 1-6	45.0
*5	PCC CURB, TYPE 1-6	224.0
6	PCC CURB, TYPE 1-6	29.0

\* CURB SHALL BE POURED WITH NO BATTER.

**MANHOLE SCHEDULE**

NO.	STATION	OFFSET	TYPE/SIZE	T. G. EL.	INV. EL.
1	203+24.24	-16.26	48" X 30"	68.19'	**

\* COST TO CONNECT EXISTING PIPE SHALL BE INCIDENTAL TO MANHOLE BEING INSTALLED.  
\*\* INVERT ELEVATION SHALL MATCH EXISTING PIPE ELEVATION.  
\*\*\* CONSTRUCT MANHOLE BOX USING THE DOGHOUSE INLET BOX DETAIL IN THE DELAWARE DEPARTMENT OF TRANSPORTATION'S "STANDARD CONSTRUCTION DETAILS."

**DRAINAGE PIPE SCHEDULE**

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
1	15" /RCP	IV	36'	0.0100	60.30'	59.94'

**DRAINAGE INLET SCHEDULE**

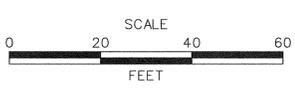
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
1	202+97.32	11.75'	48" x 30"	1	67.17'	60.30'

\* INLET SHALL NOT HAVE THROAT OPENING.



**ADDENDUMS / REVISIONS**

NO.	DATE	DESCRIPTION



**CARPENTER STREET ENHANCEMENTS,  
CITY OF WILMINGTON**

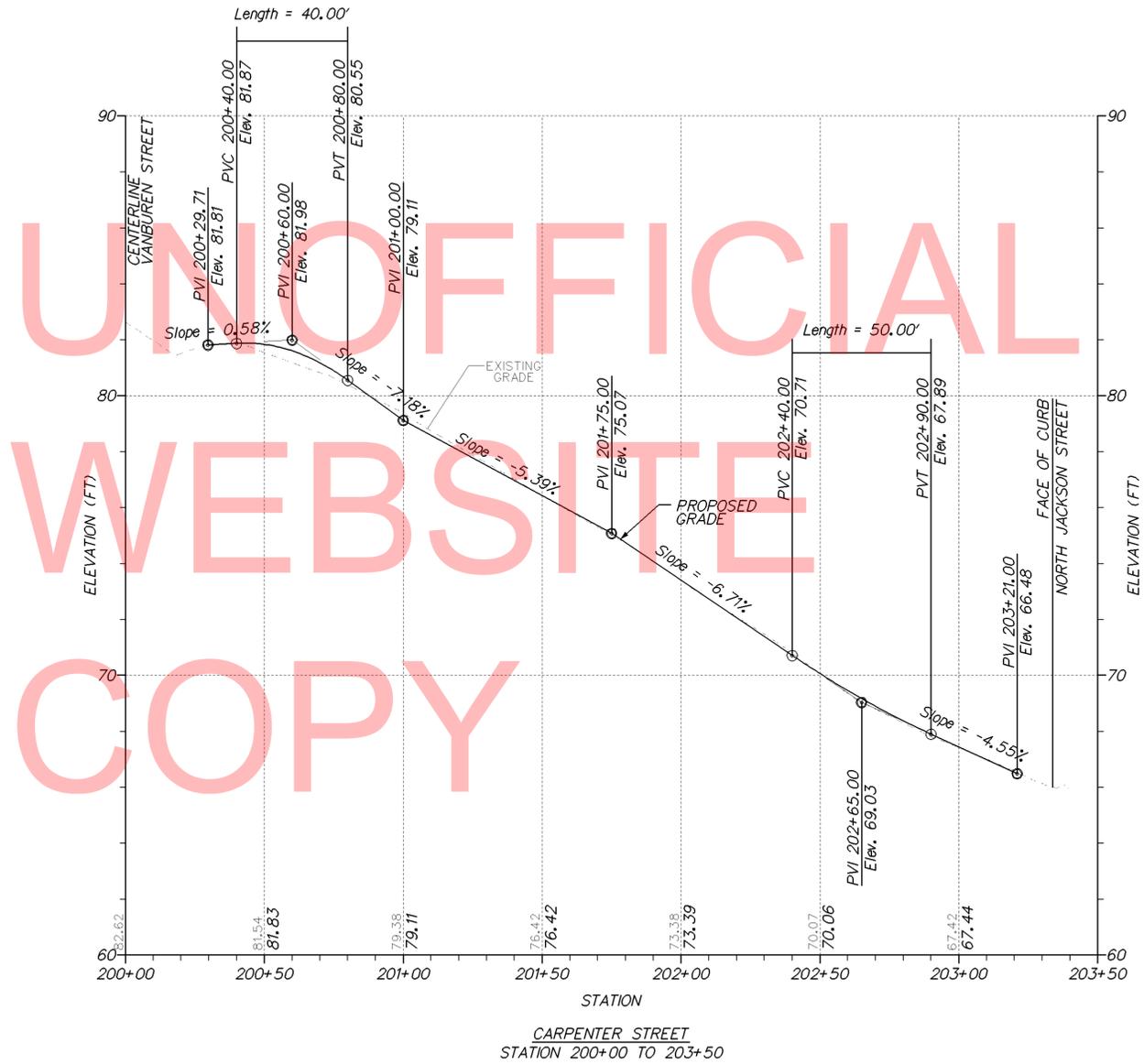
CONTRACT	T201020007
BRIDGE NO.	-
DESIGNED BY:	AMW
COUNTY	NEW CASTLE
CHECKED BY:	WFC

**CONSTRUCTION PLAN**

SHEET NO.	10
TOTAL SHTS.	25

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ADDENDUMS / REVISIONS	

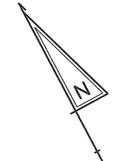


**CARPENTER STREET ENHANCEMENTS,  
CITY OF WILMINGTON**

CONTRACT T201020007	BRIDGE NO. -
COUNTY NEW CASTLE	DESIGNED BY: AMW
	CHECKED BY: WFC

<b>PROFILES</b>	SHEET NO. 11
	TOTAL SHTS. 25





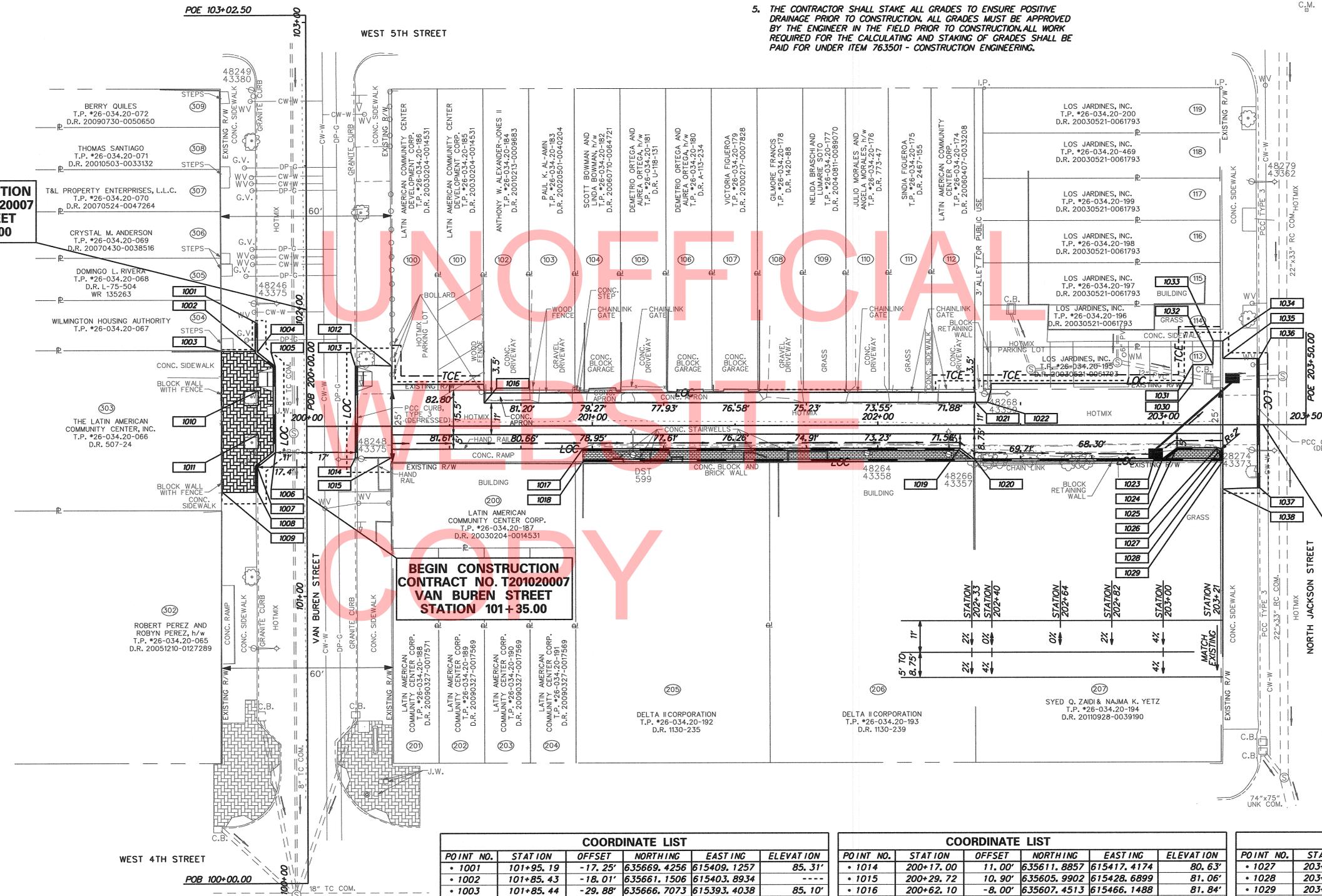
**NOTES:**

1. OFFSETS SHOWN IN THE GEOMETRIC TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION & R/W BASELINE.
2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB & GUTTER IS GIVEN TO THE EDGE OF PAVEMENT.
3. RADIARE GIVEN TO THE EDGE OF PAVEMENT.
4. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT CURB RETURNS ARE GIVEN AT 10 FOOT INTERVALS.
5. THE CONTRACTOR SHALL STAKE ALL GRADES TO ENSURE POSITIVE DRAINAGE PRIOR TO CONSTRUCTION. ALL GRADES MUST BE APPROVED BY THE ENGINEER IN THE FIELD PRIOR TO CONSTRUCTION. ALL WORK REQUIRED FOR THE CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR CURB SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.
7. SIDEWALK TO MATCH EXISTING GRADE OR AS DIRECTED IN THE FIELD BY THE ENGINEER, THE PROPOSED SIDEWALK SHALL NOT EXCEED 2% PER ADA REGULATIONS. THE SIDEWALK SHALL BE LAYED OUT FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION. ALL COSTS ARE INCIDENTAL TO THE PROJECT.

**LIMIT OF CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 102+00.00**

**BEGIN CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 101+35.00**

**END OF CONSTRUCTION  
CONTRACT NO. T201020007  
CARPENTER STREET  
STATION 203+35.00**



COORDINATE LIST					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
• 1001	101+95.19	-17.25'	635669.4256	615409.1257	85.31'
• 1002	101+85.43	-18.01'	635661.1506	615403.8934	---
• 1003	101+85.44	-29.88'	635666.7073	615393.4038	85.10'
• 1004	101+85.19	-17.26	635660.5889	615404.4446	84.56'
• 1005	101+80.19	-11.00'	635653.2425	615407.6436	84.44'
• 1006	101+50.19	-11.00'	635626.7196	615393.6244	82.00'
• 1007	101+45.15	-17.36'	635625.2280	615385.2280	81.46'
• 1008	101+36.39	-17.33'	635617.4738	615381.5760	80.79'
• 1009	101+36.38	-29.63'	635623.2075	615370.6975	81.63'
• 1010	101+71.60	-17.00'	635648.4448	615398.3211	---
• 1011	101+56.60	-17.00'	635635.1834	615391.3115	---
• 1012	200+29.65	-21.00'	635634.1836	615443.6243	83.56'
• 1013	200+16.99	-20.93'	635640.0710	615432.4221	82.94'

COORDINATE LIST					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
• 1014	200+17.00	11.00'	635611.8857	615417.4174	80.63'
• 1015	200+29.72	10.90'	635605.9902	615428.6899	81.06'
• 1016	200+62.10	-8.00'	635607.4513	615466.1488	81.84'
• 1017	200+96.68	8.00'	635577.0678	615489.1504	79.19'
• 1018	200+96.79	12.39	635573.1395	615487.1818	79.74'
• 1019	202+28.82	8.00'	635514.9385	615605.7670	71.30'
• 1020	202+33.82	11.75'	635509.2779	615608.4165	70.83'
• 1021	202+34.20	-8.00'	635526.5291	615618.0397	71.26'
• 1022	202+38.47	-8.00'	635524.5207	615621.8094	70.97'
• 1023	202+97.32	10.00'	635480.9648	615665.2820	67.17'
• 1024	202+99.82	11.75'	635478.2449	615666.6656	66.98'
• 1025	203+04.82	8.00'	635479.2035	615672.8416	66.82'
• 1026	203+18.93	8.00'	635472.5700	615685.2926	66.42'

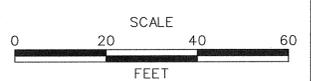
COORDINATE LIST					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
• 1027	203+18.93	10.00'	635470.8049	615684.3522	---
• 1028	203+20.93	10.00'	635469.8645	615686.1173	---
• 1029	203+20.93	12.50'	635467.6592	615684.9424	---
• 1030	203+10.34	-14.50'	635496.4636	615688.2963	---
• 1031	203+10.34	-20.99'	635502.1872	615691.3456	---
• 1032	203+17.37	-20.99'	635498.8813	615697.5509	---
• 1033	203+17.45	-29.26'	635506.1534	615701.5096	---
• 1034	203+20.87	-29.28'	635504.5544	615704.5363	---
• 1035	203+20.85	-23.11'	635499.1196	615701.6209	---
• 1036	203+33.57	-23.08'	635493.1116	615712.8297	68.43'
• 1037	203+33.81	21.97'	635453.2429	615691.8587	64.04'
• 1038	203+20.93	22.37'	635458.9459	615680.3016	---

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DELWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

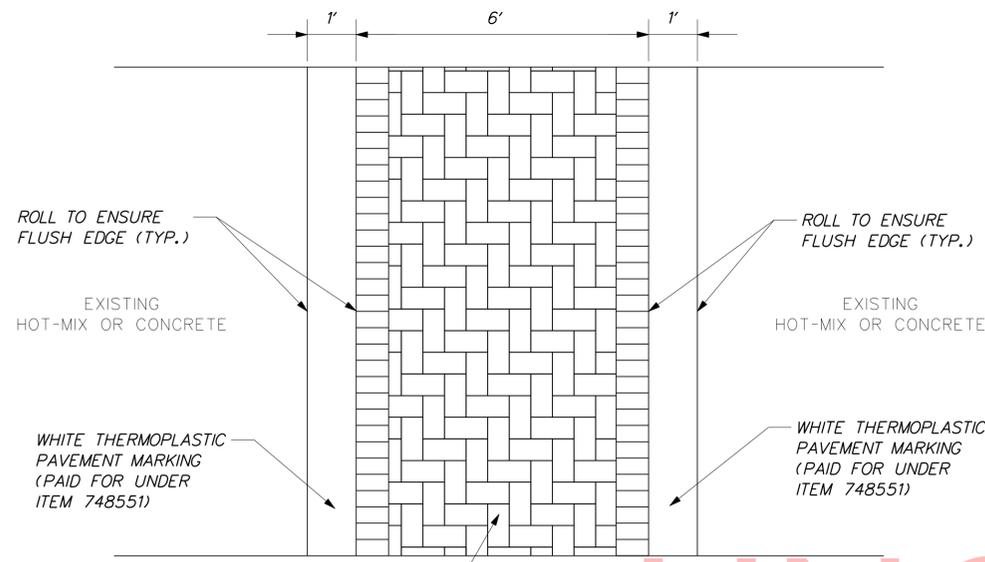


CARPENTER STREET ENHANCEMENTS, CITY OF WILMINGTON

CONTRACT T201020007  
BRIDGE NO. -  
DESIGNED BY: AMW  
COUNTY NEW CASTLE  
CHECKED BY: WFC

GRADES AND GEOMETRICS

SHEET NO. 12  
TOTAL SHTS. 25

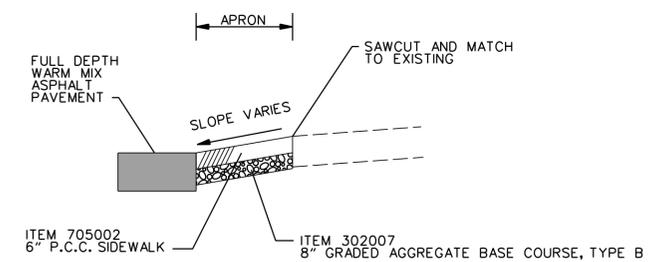


**CROSSWALK APPLICATION**  
 - HERRING BONE PATTERN WITH SOLDIER COURSE  
 - BRICK RED COLOR WITH SAND COLORED GROUT LINES

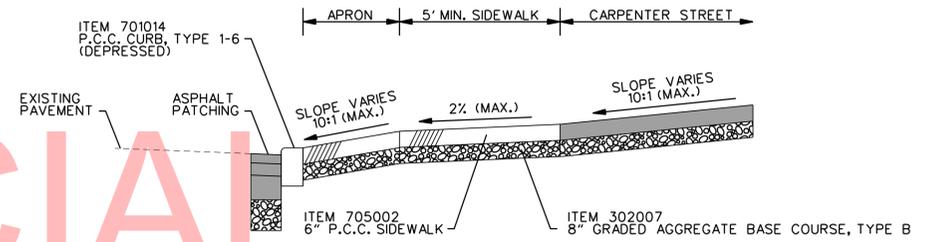
**ITEM 748551 – PREFORMED THERMOPLASTIC DECORATIVE PAVEMENT MARKING SYSTEM- AT CROSSWALK**

**N.T.S.**

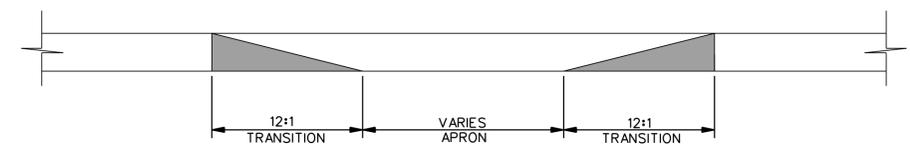
**NOTE:** EXISTING PAVEMENT SHALL BE MILLED TWO (2) INCHES AND OVERLAYED WITH WARM MIX ASPHALT PATCHING WITHIN THE LIMITS OF THE PERMANENT CROSSWALK MARKINGS. ALL COSTS SHALL BE PAID UNDER THE RESPECTIVE ITEMS.



**RESIDENTIAL DRIVEWAY**

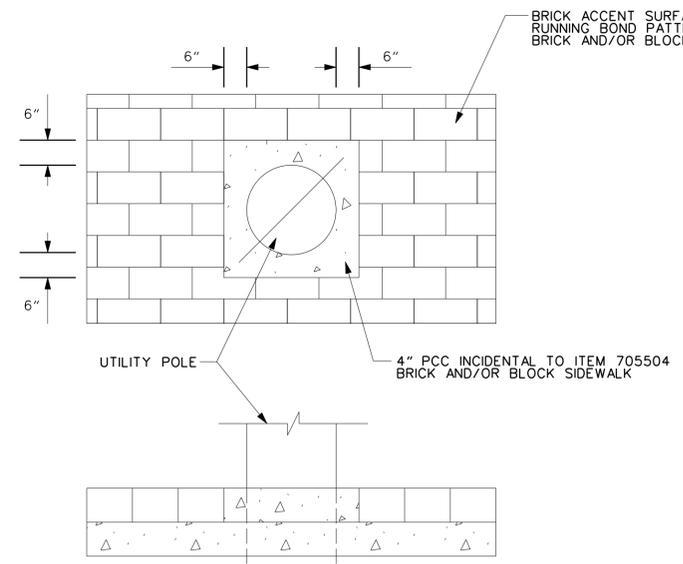


**CARPENTER STREET ENTRANCE AND EXIT**

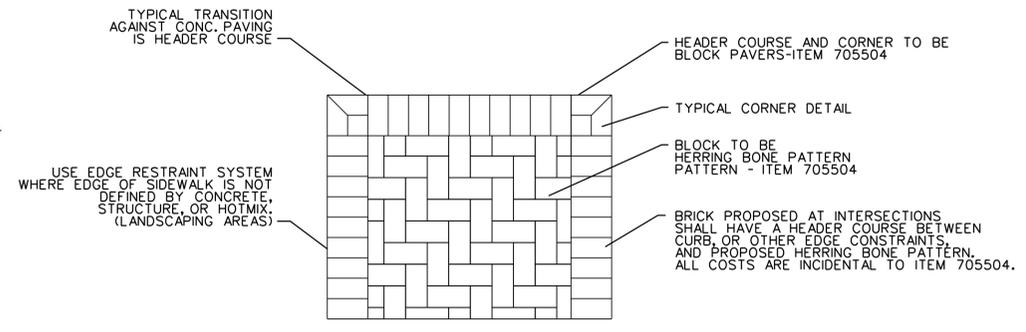


**CONCRETE DRIVEWAY APRON SECTION WITH CURB**

**NOTE:** ALL COSTS ARE INCIDENTAL TO ITEMS BEING INSTALLED.

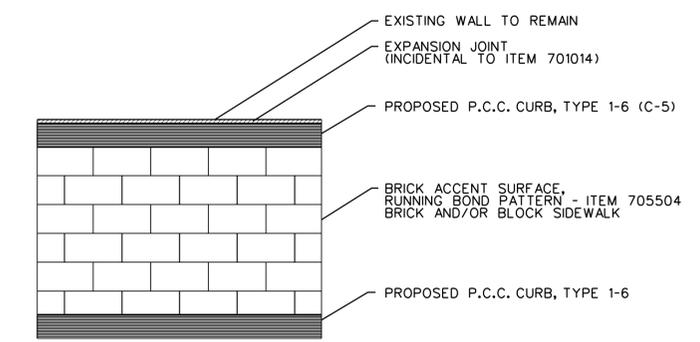


**PCC COLLAR**  
**N.T.S.**



**BRICK SIDEWALK PATTERN AT NECK DOWN ON VAN BUREN STREET**  
**N.T.S.**

**NOTE:** EDGE RESTRAINT NOT REQUIRED WHERE BRICK SIDEWALK ABUTS ROADWAY, CURB OR OTHER STRUCTURE. ALL COST INCIDENTAL TO ITEM 705504 - BRICK AND/OR BLOCK SIDEWALK.



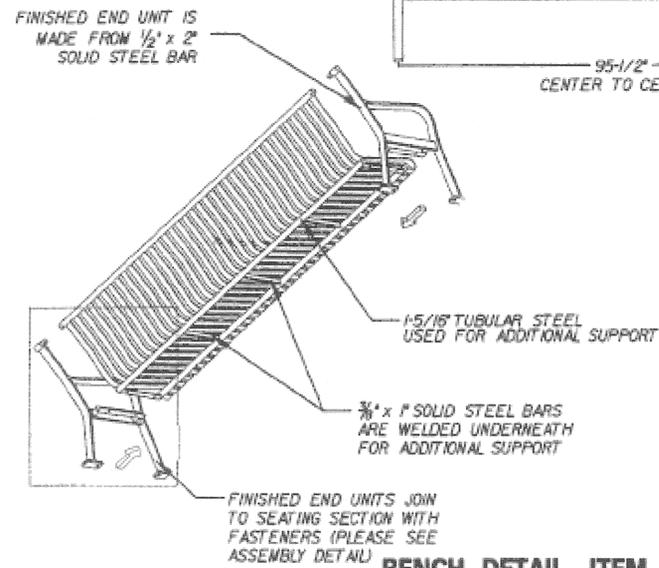
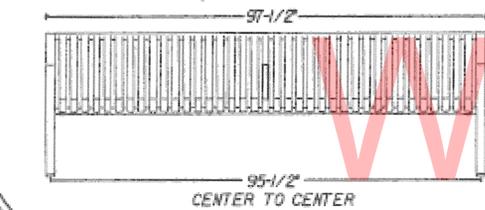
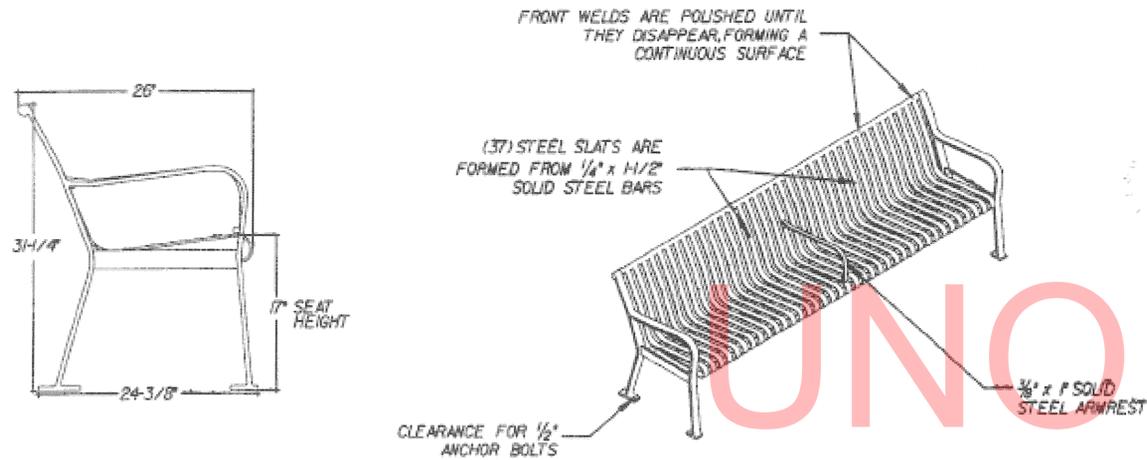
**BRICK EDGE PATTERN ALONG CARPENTER STREET**  
**N.T.S.**

**NOTE:** A SPACE BETWEEN PROPOSED CURB (C-5) AND THE EXISTING STRUCTURES VARIES FROM 7" TO 0". THIS VOID SHALL BE FILLED WITH PCC AND SEALED ALONG THE STRUCTURE. ALL COSTS FOR THIS WORK SHALL BE PAID UNDER ITEM 705002 - 6" PCC SIDEWALK.

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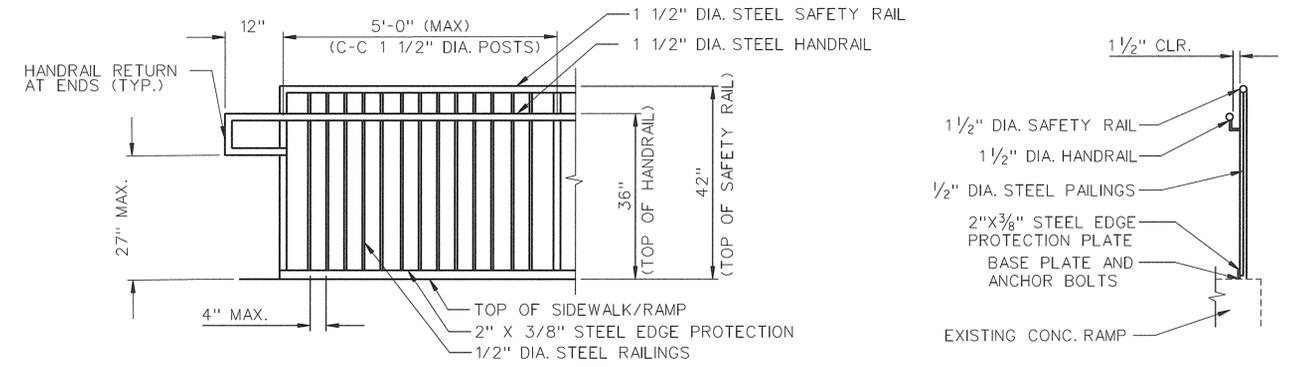
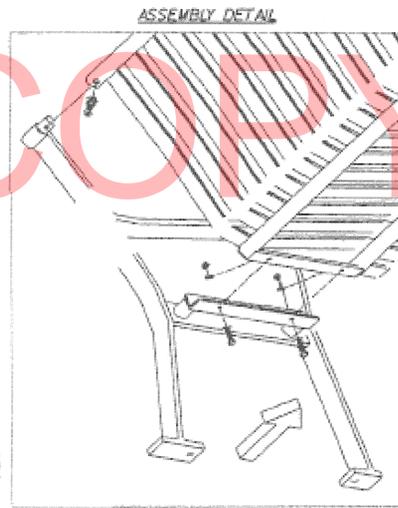
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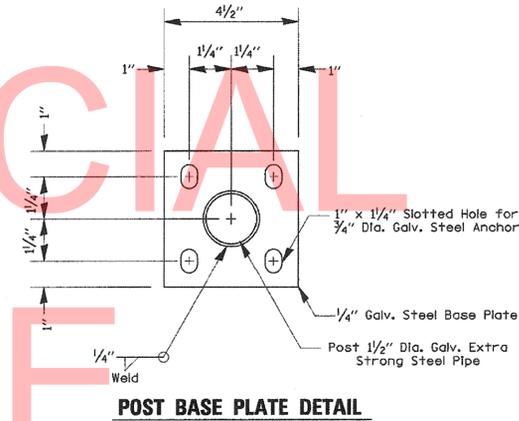
**BENCH DETAIL- ITEM 763566**  
POWDER COATING-BLACK COLOR  
NOT TO SCALE

- NOTES:
- ANCHOR BOLTS SHALL BE DRILLED THROUGH THE BRICK SURFACE AND SECURED TO THE 4" CONCRETE SUBBASE. ALL COSTS SHALL BE INCIDENTAL TO ITEM #763566 - BENCH.
  - ANCHOR BOLTS SHALL BE GALVANIZED WITH A 1/2" CLEARANCE PROTRUDING THE TOP OF THE BRICK SURFACE TO BOLT ALL FOUR LEGS OF THE BENCH. ALL COSTS SHALL BE PAID UNDER ITEM #763566 - BENCH.



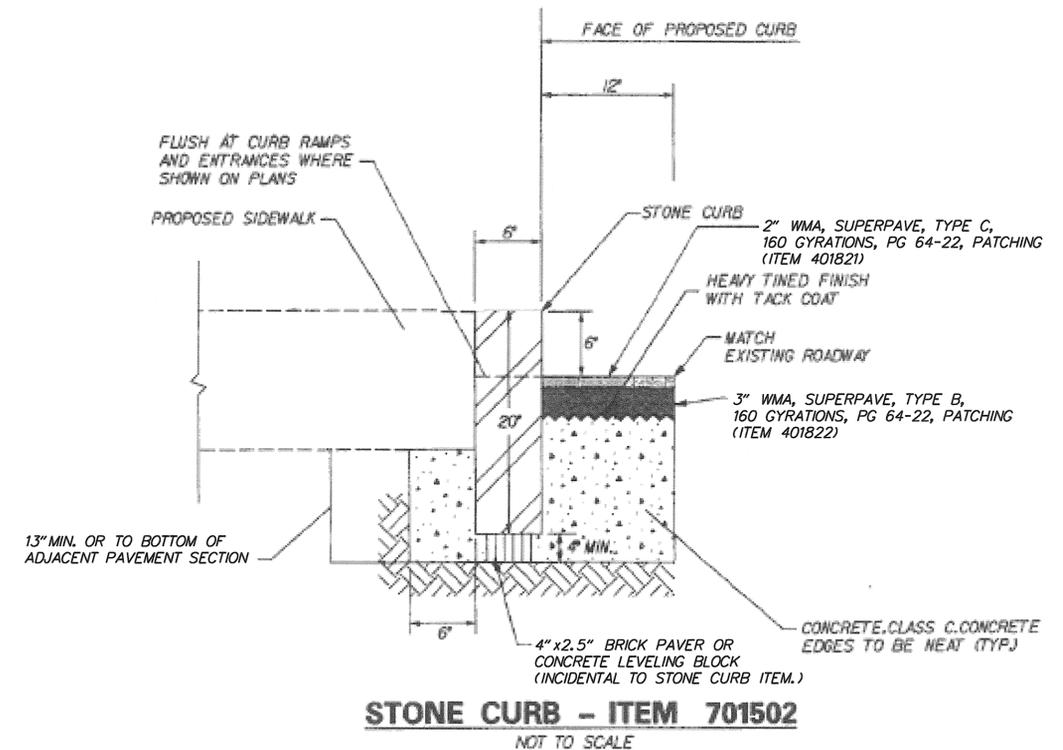
**ELEVATION VIEW - HANDRAIL**  
SCALE: NONE

**SECTION - HANDRAIL**  
SCALE: NONE



**POST BASE PLATE DETAIL**

- NOTES:
- ALL HANDRAIL SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M 123.
  - ANCHOR BOLTS SHALL BE GALVANIZED AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
  - FURNISHING AND INSTALLING HANDRAIL SHALL BE PAID FOR UNDER ITEM 606503 - STEEL HAND RAILING.



**STONE CURB - ITEM 701502**  
NOT TO SCALE

TRAFFIC CONTROL NOTES

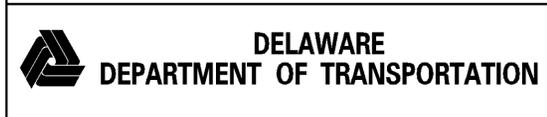
1. ALL WORK SHALL BE PERFORMED IN A MANNER THAT WILL REASONABLY PROVIDE THE LEAST PRACTICABLE OBSTRUCTION TO ALL ROAD USERS, INCLUDING VEHICULAR, PEDESTRIAN AND BICYCLE TRAFFIC, AND SHALL CONFORM TO THE REQUIREMENTS OF THE 2011 DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT FOR BIDS.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF EXISTING PAVEMENT WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE CONTRACT OR AS DIRECTED BY THE ENGINEER OR DESIGNEE. ALL REPAIRS ARE AT THE CONTRACTOR'S EXPENSE AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL ONLY WORK ON ONE SIDE OF VAN BUREN STREET AT A TIME OR AS DIRECTED IN FIELD BY THE ENGINEER.
4. CONTRACTOR SHALL FOLLOW PROPOSED PEDESTRIAN DETOUR PLAN AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER IN THE FIELD. PEDESTRIAN DETOUR SHALL FOLLOW GUIDELINES IN DEMUTCO.
5. CONTRACTOR SHALL NOT WORK ON MORE THAN ONE BLOCK AT A TIME. ALL PROPOSED WORK WITHIN ONE CITY BLOCK SHALL BE COMPLETED PRIOR TO STARTING ANY WORK ON ANOTHER CITY BLOCK.

GENERAL PROJECT NOTES FOR SEDIMENT AND STORMWATER MANAGEMENT

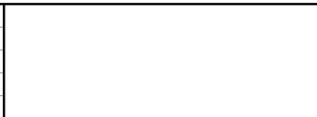
- 1) DUST CONTROL  
DUST IS TO BE CONTROLLED EXCLUSIVELY THROUGH THE USE OF WATER. COSTS ASSOCIATED WITH THE FURNISHING AND APPLICATION OF WATER FOR DUST CONTROL SHALL BE INCIDENTAL TO ALL THE CONTRACT ITEMS.
- 2) EXISTING INLETS AND PIPES  
ALL EXISTING INLETS AND PIPES WITHIN THE PROJECT LIMITS TO REMAIN SHALL BE CLEANED OUT. THE COST OF CLEANING OUT THE EXISTING PIPES TO REMAIN IS INCIDENTAL TO ITEM #201000.
- 3) REVIEW AND OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE THE REQUIREMENTS OF THE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM THE ERRORS OR OMISSIONS IN THE APPROVED PLAN.
- 4) SOIL DISTURBANCE  
FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS.
- 5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR OF ALL EROSION AND SEDIMENT CONTROLS, AND STORMWATER MANAGEMENT PRACTICES DURING THE PROJECT.
- 6) EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS OR AS DIRECTED BY ENGINEER IN THE FIELD.
- 7) STAGING AREAS. PROPER EROSION AND SEDIMENT CONTROL MEASURES AS DETERMINED BY THE ENGINEER SHALL BE INSTALLED IN ALL STAGING AREAS, AT COMPLETION OF THE PROJECT. STAGING AREAS THAT ARE PAVED SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF UNPAVED, STAGING AREAS SHALL BE REGRADED TO THE SATISFACTION OF THE ENGINEER, TOPSOILED SEEDED, AND MULCHED IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATIONS SECTIONS 7.32, 7.34, AND 7.35 FOR TOPSOIL, SEED AND MULCH RESPECTIVELY. SEED SHALL ADHERE TO THE SPECIFICATIONS FOR PERMANENT GRASS SEEDING - DRY GROUND. ALL COSTS ASSOCIATED TO THE ABOVE ITEMS SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION. ALL COSTS ASSOCIATED WITH RE-ESTABLISHING A SATISFACTORY STAND OF GRASS SHALL ALSO BE AT THE CONTRACTOR'S EXPENSE.
- 8) SOIL STOCKPILES (IF REQUIRED.) STOCKPILES OF SOIL SHALL BE STABILIZED AND SEEDED PER DELDOT REQUIREMENTS.
- 9) THE CONTRACTOR SHALL PLACE SILT FENCE (IF REQUIRED) AS DIRECTED IN THE FIELD BY THE ENGINEER. ALL COSTS ARE INCLUDED UNDER ITEM 251000.

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ADDENDUMS / REVISIONS	



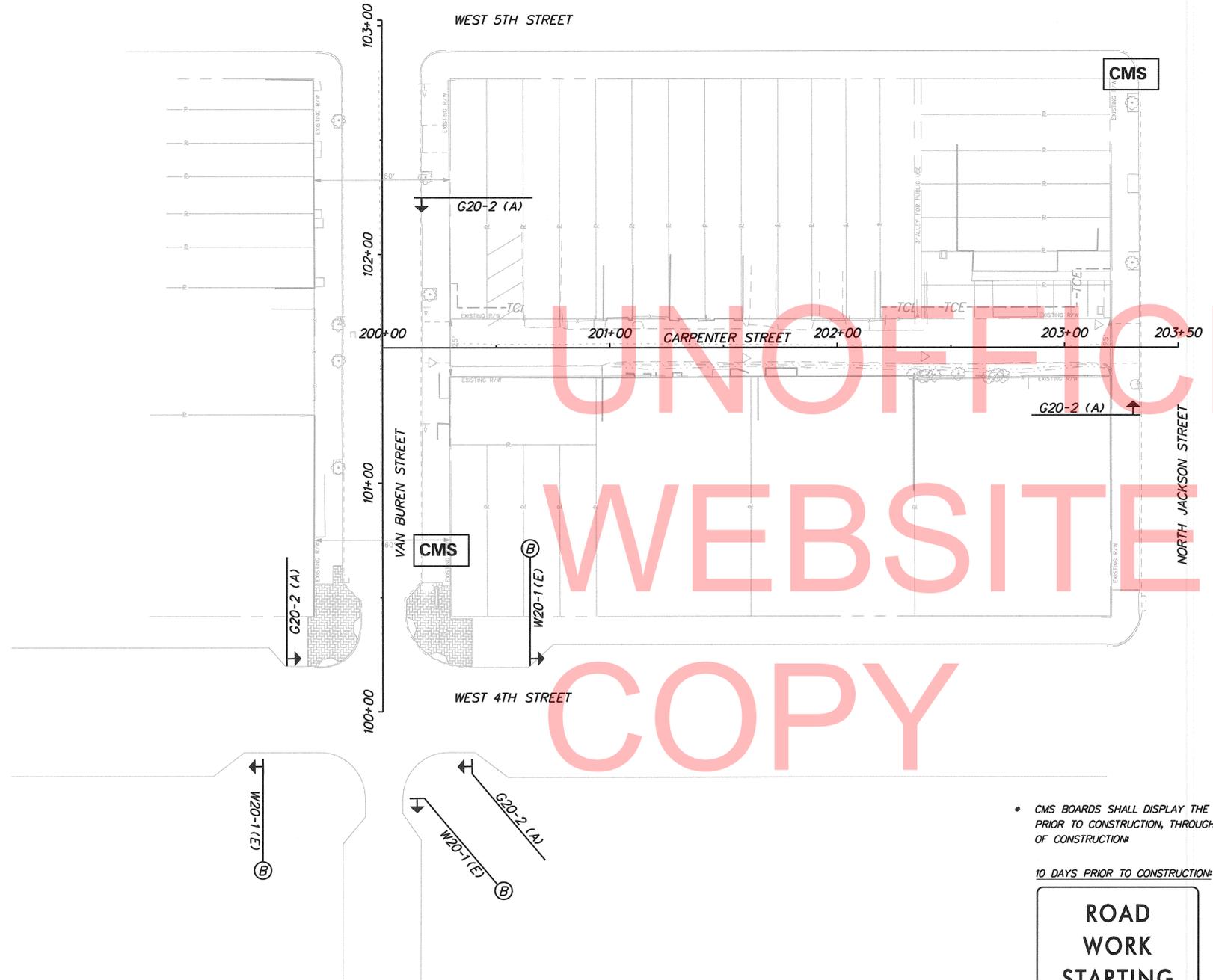
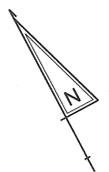
**CARPENTER STREET ENHANCEMENTS,  
CITY OF WILMINGTON**

CONTRACT	BRIDGE NO.	-
T201020007	DESIGNED BY:	AMW
COUNTY	CHECKED BY:	WFC
NEW CASTLE		

**CONSTRUCTION PHASING,  
M.O.T. AND EROSION  
CONTROL NOTES**

SHEET NO.	15
TOTAL SHTS.	25

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**ADVANCED WARNING SIGN LAYOUT**

NOTE: SIGNS SHALL NOT BLOCK ACCESS TO SIDEWALKS AND/OR CROSSWALKS. A MINIMUM WIDTH OF 4 FEET SHALL BE MAINTAINED ALONG SIDEWALKS.

\* CMS BOARDS SHALL DISPLAY THE FOLLOWING MESSAGES 10 DAYS PRIOR TO CONSTRUCTION, THROUGH 5 DAYS AFTER THE BEGINNING OF CONSTRUCTION:

10 DAYS PRIOR TO CONSTRUCTION:

<b>ROAD WORK STARTING</b>	<b>XX/XX/XX EXPECT DELAYS</b>
---------------------------	-------------------------------

5 DAYS AFTER CONSTRUCTION BEGUN:

<b>ROAD WORK AHEAD</b>	<b>XX AM-X PM EXPECT DELAYS</b>
------------------------	---------------------------------

<b>CMS</b>	PORTABLE CHANGEABLE MESSAGE SIGN LOCATION
------------	---

SPECIAL SIGNS (PAID UNDER ITEM NO. 743024)	
<b>Carpenter Street</b> (A)	<b>Van Buren Street</b> (B)
NOTE: PLACE SPECIAL SIGN UNDER CONSTRUCTION ZONE WARNING SIGNS.	

\* NOTE: THE CONTRACTOR SHALL LAYOUT SIGNS FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION. THE COVERING OF ANY CONFLICTING SIGNS SHALL BE INCIDENTAL TO ITEM\* 743024. ALL SIGNS PAID UNDER ITEM \* 743024.

CONSTRUCTION ZONE WARNING SIGNS	
* DISTANCE LEGEND	
LETTER	DISTANCE
A	500 FT
B	1000 FT
C	1500 FT
D	1/2 MILE
E	AHEAD
F	BOTH SHOULDERS CLOSED

<b>END ROAD WORK</b>
G20-2 48" X 24"
W20-1 48" X 48"

\* NOTE: ALL PERMANENT WARNING SIGNS PAID UNDER ITEM\* 743024.

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**LIMIT OF CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 102+00.00**

**BEGIN CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 101+35.00**

**END CONSTRUCTION  
CONTRACT NO. T201020007  
CARPENTER STREET  
STATION 203+35.00**



**PHASE I**

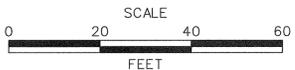
**PHASE I - VAN BUREN STREET BUMPOUT**

1. INSTALL ADVANCE WARNING SIGNS PER ADVANCED WARNING SIGN LAYOUT SHEET. PLACE CHANGEABLE MESSAGE SIGN TEN (10) DAYS IN ADVANCE OF CONSTRUCTION. CONTRACTOR SHALL PLACE "NO PARKING" SIGNS ON BOTH SIDES OF VAN BUREN STREET PRIOR TO CONSTRUCTION.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES.
3. USING TA-33 AND TA-28 OF THE TRAFFIC CONTROL MANUAL, CLOSE LEFT TRAVEL LANE ALONG VAN BUREN STREET AND IMPLEMENT SIDEWALK DETOUR.

4. REMOVE EXISTING SIDEWALK AND CURB WITHIN THE CONSTRUCTION LIMITS OF THE PHASE. THE CONTRACTOR SHALL CONSTRUCT THE SIDEWALK IN TWO PARTS SO THAT MAINTAINING ACCESS TO THE LATIN AMERICAN COMMUNITY CENTER CAN BE ADHERED.
  5. CONSTRUCT PROPOSED CURB, CURB RAMP, AND BRICK SIDEWALK WITHIN THIS PHASE OF CONSTRUCTION.
  6. PLANT TREES SHOWN IN THE LANDSCAPING PLANS.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ENTRANCES DURING THIS PHASE OF CONSTRUCTION. COSTS ASSOCIATED WITH MAINTAINING ENTRANCES ARE INCIDENTAL TO THE CONTRACT.

CONSTRUCTION SEQUENCE LEGEND		LEGEND	
	WORK AREA		SILT FENCE
	WORK COMPLETED IN PREVIOUS PHASE		STABILIZED CONSTRUCTION ENTRANCE
			INLET SEDIMENT CONTROL
			STONE CHECK DAM

ADDENDUMS / REVISIONS



CONTRACT T201020007	BRIDGE NO. -
COUNTY NEW CASTLE	DESIGNED BY: AMW
	CHECKED BY: WFC

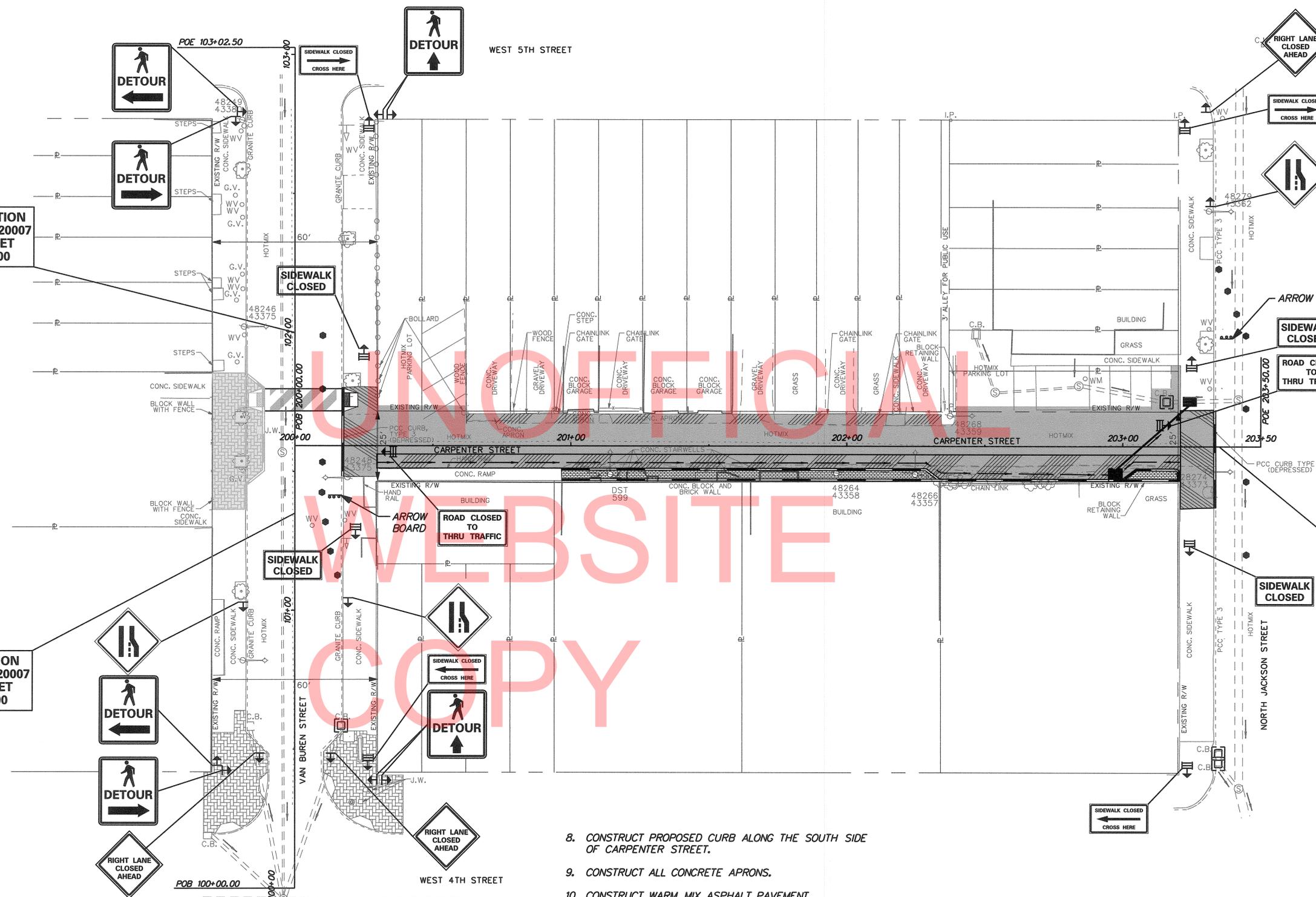
SHEET NO. 17
TOTAL SHTS. 25

6/26/2012 6:30:00 AM (Transportation Enhancement Program)\08535.24 (Task 24, Carpenter St. Alley Enhancements - Final Design)\CADD FILES\es02CSA.dgn

**LIMIT OF CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 102+00.00**

**BEGIN CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 101+35.00**

**END CONSTRUCTION  
CONTRACT NO. T201020007  
CARPENTER STREET  
STATION 203+35.00**



**SEQUENCE OF CONSTRUCTION**

THE CONTRACTOR SHALL COMPLETE ALL WORK IN THE FOLLOWING SEQUENCE. ALL WORK SHALL BE COMPLETED IN A PHASE/STAGE BEFORE STARTING WORK IN A SUBSEQUENT PHASE/STAGE UNLESS OTHERWISE APPROVED BY THE ENGINEER. ALL DISTURBED AREAS IN A STAGE SHALL BE STABILIZED AS DIRECTED BY THE ENGINEER BEFORE BEGINNING WORK IN THE NEXT PHASE/STAGE.

**PHASE II**

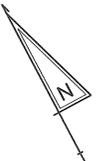
**PHASE II - CARPENTER STREET**

- CONTRACTOR SHALL PLACE "NO PARKING" SIGNS ON THE EAST SIDE OF VAN BUREN STREET PRIOR TO CONSTRUCTION.

- INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES.
- USING TA-33, TA-20, AND TA-28 OF THE TRAFFIC CONTROL MANUAL, CLOSE RIGHT TRAVEL LANE ALONG VAN BUREN STREET AND IMPLEMENT SIDEWALK DETOUR.
- REMOVE EXISTING PAVEMENT, SIDEWALK, AND CURB WITHIN THE CONSTRUCTION LIMITS OF THE PHASE.
- CONSTRUCT PCC CURB, CURB RAMP, AND 6" PCC SIDEWALK AT THE ENTRANCE AND EXIT OF CARPENTER STREET.
- PATCH EXISTING ASPHALT ALONG CURB WITH WARM MIX ASPHALT.
- CONSTRUCT PROPOSED UNDERDRAIN AND OTHER DRAINAGE FACILITIES. INSTALL LIGHTING CONDUIT AND POLE BASES.

- CONSTRUCT PROPOSED CURB ALONG THE SOUTH SIDE OF CARPENTER STREET.
  - CONSTRUCT ALL CONCRETE APRONS.
  - CONSTRUCT WARM MIX ASPHALT PAVEMENT.
  - MILL EXISTING PAVEMENT FOR PEDESTRIAN CROSSING AND PAVE 2" WMA, TYPE C. PLACE PERMANENT DECORATIVE PAVEMENT MARKINGS.
  - CONSTRUCT BRICK SURFACE.
  - INSTALL LIGHTING FIXTURES AND BENCH.
  - PLACE CHANGEABLE MESSAGE SIGN ON NORTH JACKSON STREET TEN (10) IN ADVANCE OF OPENING CARPENTER STREET TO INFORM THE PUBLIC OF THE NEW TRAFFIC PATTERN.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ENTRANCES DURING THIS PHASE OF CONSTRUCTION. COSTS ASSOCIATED WITH MAINTAINING ENTRANCES ARE INCIDENTAL TO THE CONTRACT.

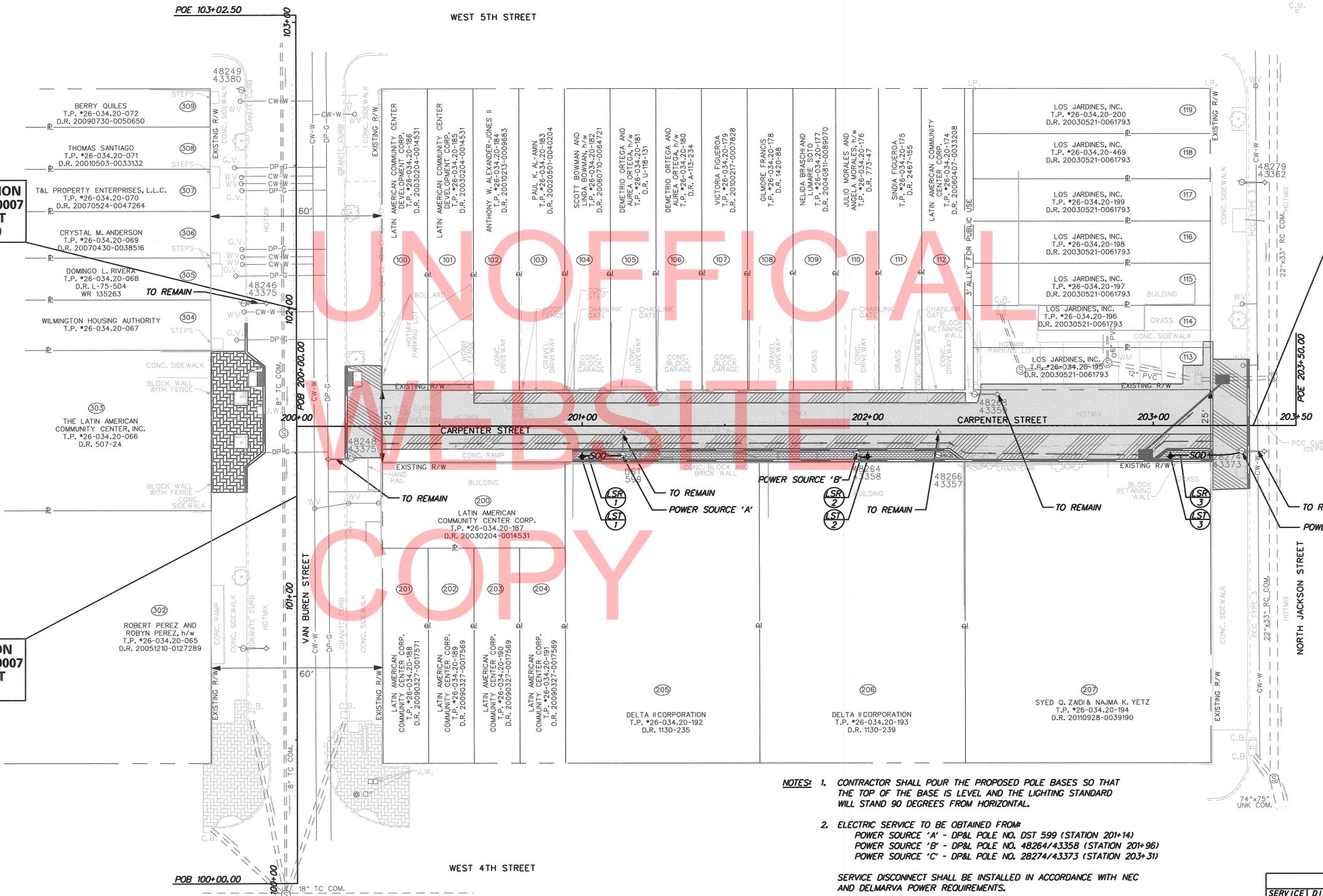
CONSTRUCTION SEQUENCE LEGEND		LEGEND	
	WORK AREA		SILT FENCE
	WORK COMPLETED IN PREVIOUS PHASE		STABILIZED CONSTRUCTION ENTRANCE
			INLET SEDIMENT CONTROL
			STONE CHECK DAM



**LIMIT OF CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 102+00.00**

**BEGIN CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 101+35.00**

**END CONSTRUCTION  
CONTRACT NO. T201020007  
CARPENTER STREET  
STATION 203+35.00**



- NOTES:**
- CONTRACTOR SHALL POUR THE PROPOSED POLE BASES SO THAT THE TOP OF THE BASE IS LEVEL AND THE LIGHTING STANDARD WILL STAND 90 DEGREES FROM HORIZONTAL.
  - ELECTRIC SERVICE TO BE OBTAINED FROM:  
POWER SOURCE 'A' - DP&L POLE NO. DST 599 (STATION 201+14)  
POWER SOURCE 'B' - DP&L POLE NO. 48264/43358 (STATION 201+96)  
POWER SOURCE 'C' - DP&L POLE NO. 28274/43373 (STATION 203+31)
  - LUMINAIRE MOUNTING HEIGHT 12 FEET. SEE LIGHTING DETAILS ON SHEET #20.
  - LUMINAIRES SHALL BE INSTALLED CENTERED IN THE BRICK SURFACE.
  - THE CONTRACTOR IS REQUIRED TO OBTAIN THE REQUIRED ELECTRICAL SERVICE APPLICATION ON BEHALF OF THE CITY OF WILMINGTON. ALL COSTS ARE INCIDENTAL TO THE CONTRACT.
  - ALL COSTS OF DELMARVA ELECTRICAL CONNECTION FEES SHALL BE PAID BY THE CONTRACTOR AND ARE INCIDENTAL TO THE LIGHTING STANDARD ITEM.
- SERVICE DISCONNECT SHALL BE INSTALLED IN ACCORDANCE WITH NEC AND DELMARVA POWER REQUIREMENTS.

**LEGEND**

	LIGHTING STANDARD IDENTIFIER
	LIGHTING SERVICE IDENTIFIER
	CONDUIT JUNCTION WELL IDENTIFIER
	EXISTING LUMINAIRE
	EXISTING UTILITY POLE
	PROPOSED LIGHT STANDARD WITH LUMINAIRE
	SCHEDULE 80 PVC CONDUIT UNDER NEW PAVEMENT OR IN SODDED TRENCH, 2"
	SCHEDULE 80 PVC CONDUIT UNDER EXISTING PAVEMENT-DIRECTIONAL BORE, 2"
	CONDUIT JUNCTION WELL, TYPE 1

**LIGHTING SERVICE SCHEDULE**

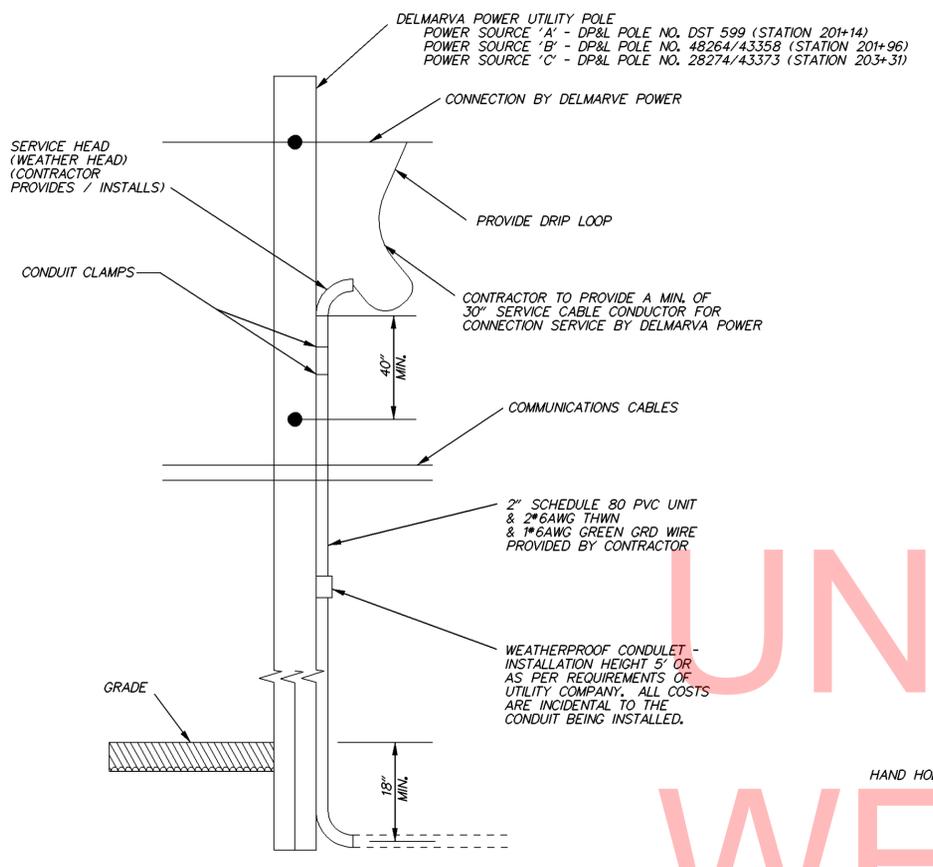
SERVICE RUN	DISTANCE (L.F.)	DESCRIPTION	INSTALLATION
1	13.0	2" SCHEDULE 80 PVC	2 #6 + 1 #6C
2	3.0	2" SCHEDULE 80 PVC	2 #6 + 1 #6C
3	23.0	2" SCHEDULE 80 PVC	2 #6 + 1 #6C

**LIGHTING STANDARD SCHEDULE**

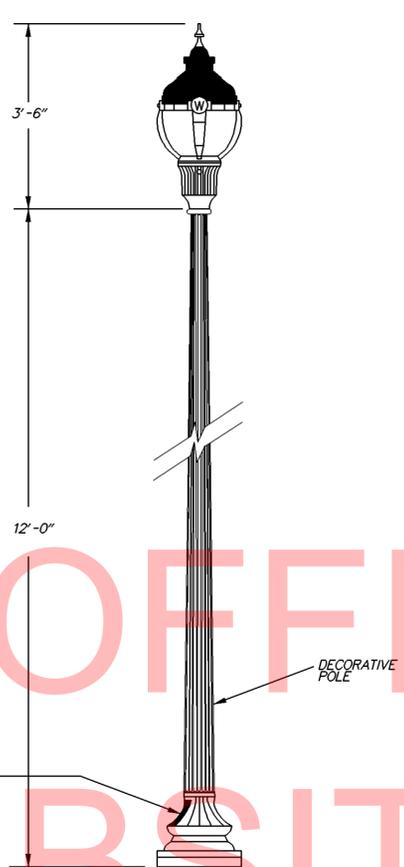
NO.	CIRCUIT NO.	STATION	OFFSET	ARM	LIGHT STANDARD
1	X	201+00.00	10.75' RT.	X	150W HPS
2	X	202+00.00	10.75' RT.	X	150W HPS
3	X	203+06.00	10.75' RT.	X	150W HPS

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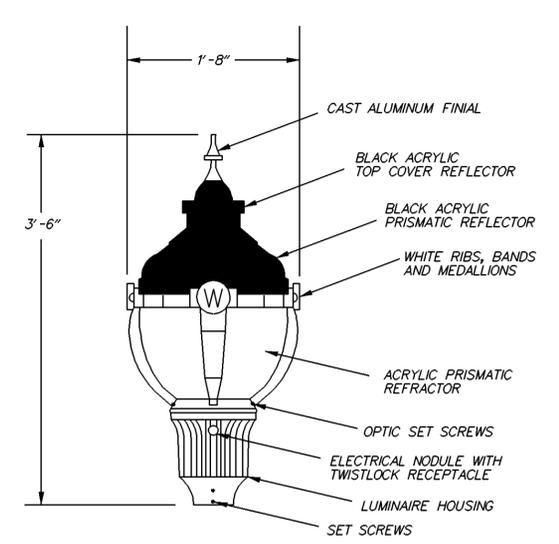
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**POLE SERVICE DETAIL**

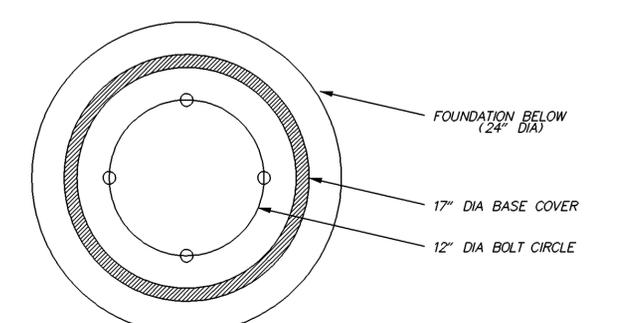


**LIGHTING STANDARD**

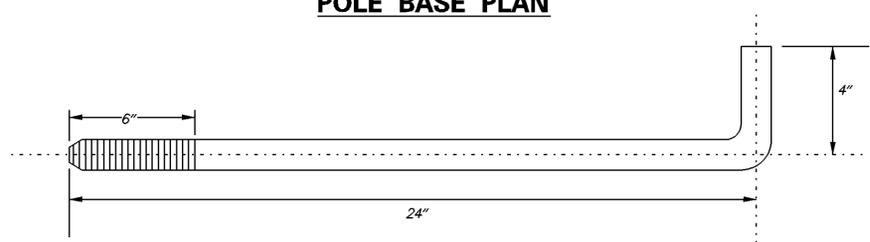


**LUMINAIRE DETAILS**

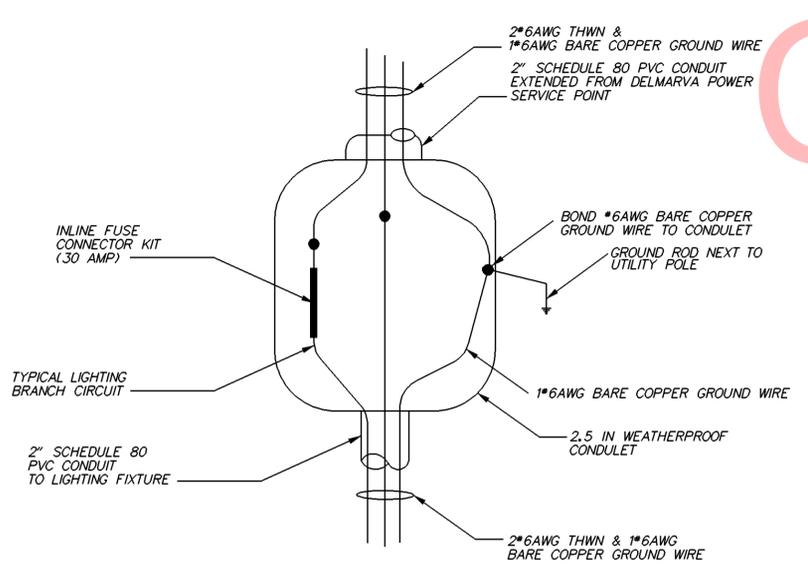
- NOTES:
1. CONSTRUCTION DETAILS NOT SHOWN ON THE DRAWINGS ARE TO CONFORM TO THE DELDOT STANDARDS.
  2. THE STANDARDS SPECIFICATIONS FOR THIS PROJECT ARE DELDOT SPECIFICATIONS.
  3. PROVIDE SERVICE DISCONNECT AND CONDUIT RISER IN ACCORDANCE WITH DELMARVA POWER'S REQUIREMENTS.
  4. PROVIDE WATERTIGHT, SUBMERSIBLE, PREMOLDED, DISCONNECTABLE, 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 GROUND WIRE TO TERMINATE AT EACH POLE.
  9. LUMINAIRE MATRIX SHALL CONSIST OF TYPE III OPTICS, 150W HPS, 240V, 12 FT. MOUNTING HEIGHT (14 FT. LAMP CENTER) WITH CUT OFF FIXTURE.



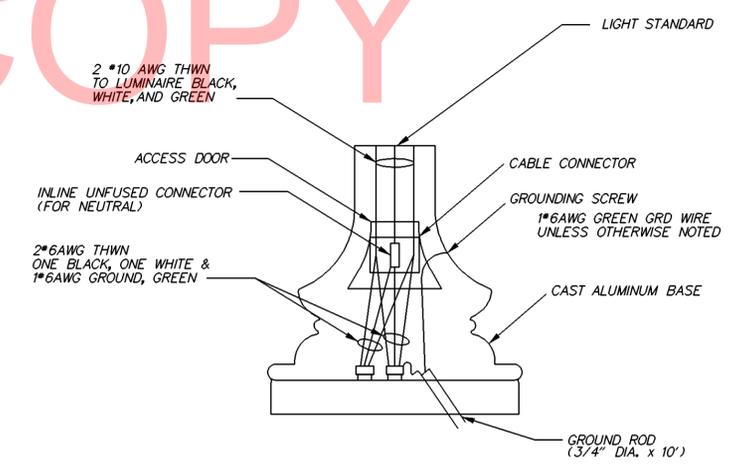
**POLE BASE PLAN**



**ANCHOR BOLT DETAIL**

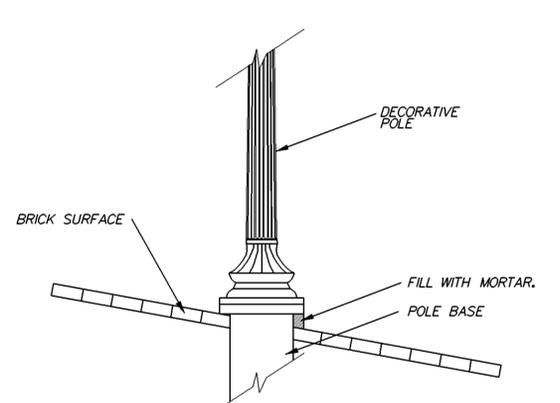


**WEATHERPROOF CONDULET DETAIL (POWER BRANCH CIRCUIT)**



**TYPICAL LUMINAIRE CONNECTION**

- NOTE:
1. ALL LIGHTING STANDARDS SHALL BE INSTALLED ON DELDOT STANDARD POLE BASE, TYPE 6.
  2. ALL COSTS FOR POWER CONNECTION AND ASSOCIATED MATERIALS SHALL BE INCIDENTAL TO LIGHT STANDARD.



**INSTALLATION ON SLOPE**

ADDENDUMS / REVISIONS

NOT TO SCALE

CONTRACT T201020007	BRIDGE NO. -
COUNTY NEW CASTLE	DESIGNED BY: AMW
	CHECKED BY: WFC

SHEET NO. 20
TOTAL SHTS. 25

**LANDSCAPE PLANTING NOTES**

- ALL LANDSCAPING SHALL BE DONE IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATIONS AND CONSTRUCTION DETAILS.
- LANDSCAPING PLANS ARE FOR LANDSCAPING PURPOSES ONLY. AS-BUILT CONDITIONS MAY VARY. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES OR POTENTIAL PROBLEMS PRIOR TO COMMENCING WORK.

- THE CONTRACTOR SHALL VERIFY PLANT MATERIAL QUANTITIES SHOWN ON THE PLANS WITH THE TOTALS IN THE PLANT SCHEDULES. WHERE DISCREPANCIES OCCUR BETWEEN THE PLANS AND THE PLANT SCHEDULE, THE PLANS SHALL GOVERN.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY TO LOCATE ALL UTILITIES PRIOR TO INSTALLATION OF PLANTINGS.
- NO PLANT MATERIAL SHALL BE PLANTED DIRECTLY IN FRONT OF ROADWAY SIGN SIGHT LINES.
- ALL TREES MUST BE PLANTED OUTSIDE THE ROADWAY CLEAR ZONE OR HORIZONTAL CLEARANCE BEHIND CURB.
- ALL PLANT MATERIAL SHALL BE SET BACK 6' FROM THE CENTERLINE OF DITCHES, EDGE OF PAVEMENT AND FENCES, UNLESS OTHERWISE IDENTIFIED ON THE PLANS.

MASTER LANDSCAPE PLANTING SCHEDULE					
QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE AND ROOT CONDITION	COMMENTS
2	AH	OSTRYA VIRGINIANA	AMERICAN HOP HORNBEAM	3" Caliper, B&B	
*6	AH	OSTRYA VIRGINIANA	AMERICAN HOP HORNBEAM	3" Caliper, B&B	Off site Plantings

\* SEE NOTE #10 FOR OFFSITE PLANTINGS.

LANDSCAPE PLANTING SCHEDULE		
KEY	PLANTING DESCRIPTION	QUANTITY
AH	OSTRYA VIRGINIANA, AMERICAN HOP HORNBEAM	8

**LIMIT OF CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 102+00.00**

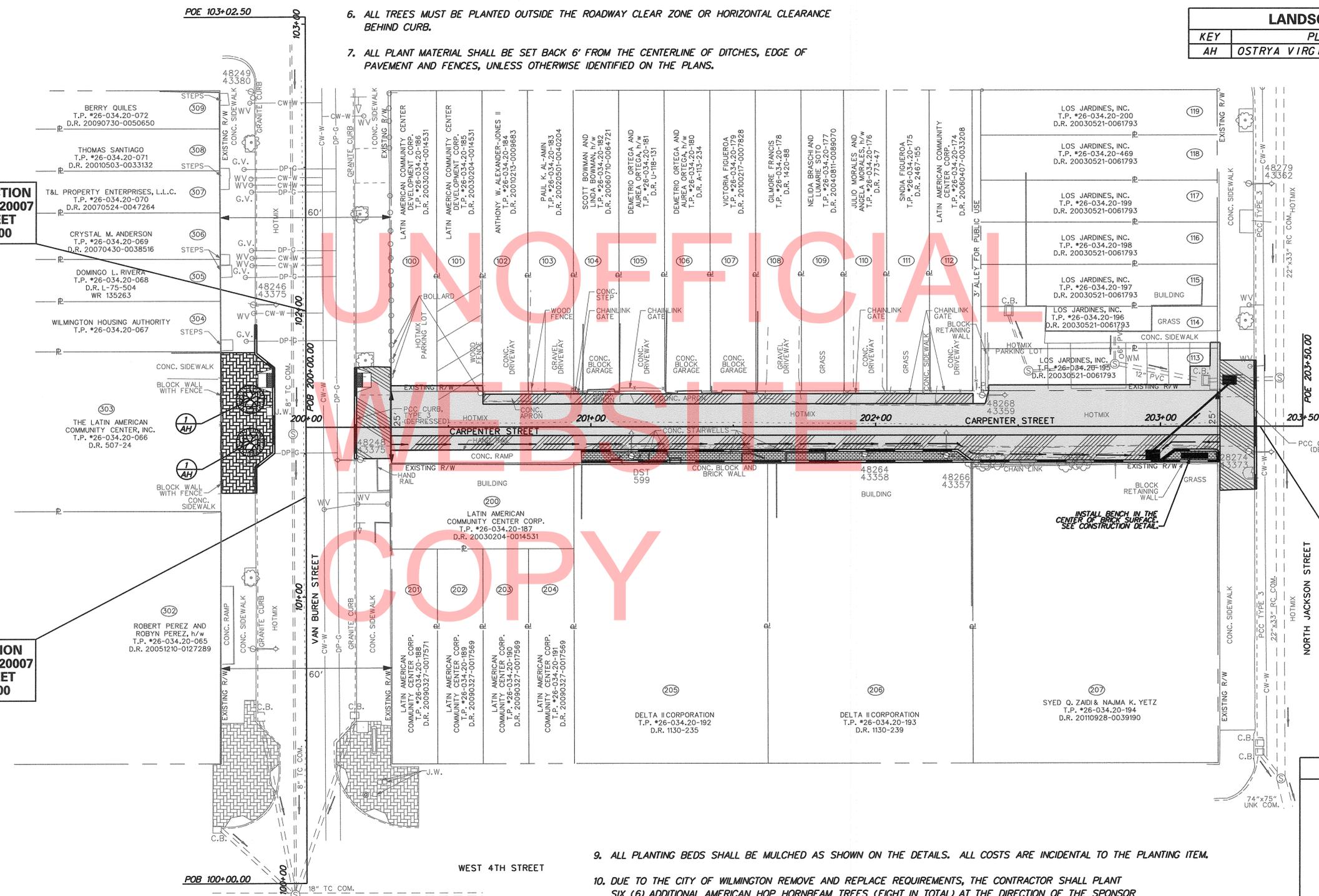
**BEGIN CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 101+35.00**

**END CONSTRUCTION  
CONTRACT NO. T201020007  
CARPENTER STREET  
STATION 203+35.00**

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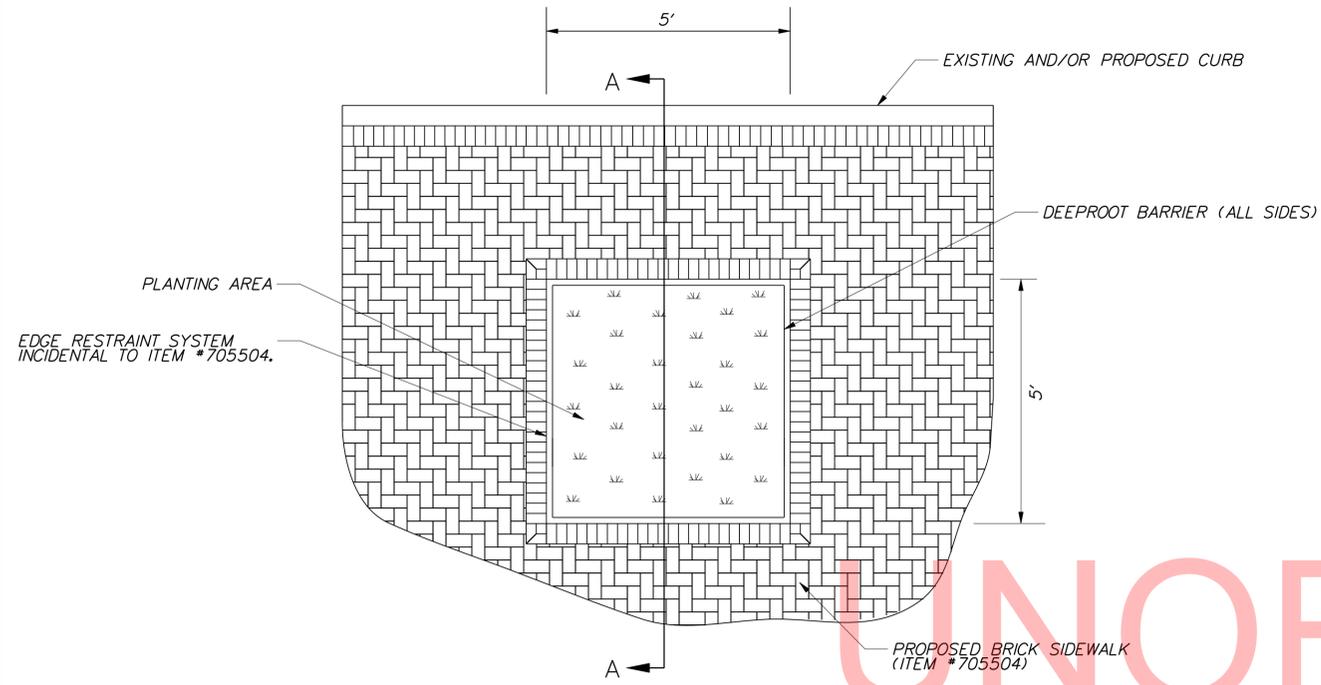
- CONTRACTOR SHALL BE REQUIRED TO KEEP ALL PLANT MATERIALS SUFFICIENTLY WATERED FROM JUNE 15 THROUGH OCTOBER 1. WATERING, ONCE INITIATED, SHALL CONTINUE WITHOUT INTERRUPTION UNTIL ALL PLANTS ON THE PROJECT HAVE BEEN WATERED. PAYMENT SHALL BE PER 1,000 GALLONS OF WATER APPLIED AND SHALL BE BASED ON THE FOLLOWING SCHEDULE: MAJOR AND EVERGREEN TREES-15 GALLONS PER TREE, MINOR TREES-10 GALLONS PER TREE, SHRUBS-5 GALLONS PER SHRUB, PERENNIALS AND GROUNDCOVERS-10 GALLONS PER 100 SQUARE FEET OF PLANTING BED. WATER USED FOR THIS ITEM SHALL MEET THE REQUIREMENTS OF SECTION 803 OF THE STANDARD SPECIFICATIONS. TREE WATERING BAGS, IF UTILIZED, SHALL BE FILLED AS A PART OF THE WATERING OPERATION; PAYMENT SHALL BE AS DETAILED HEREIN. TREE WATERING BAGS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED PRIOR TO FINAL INSPECTION.

- ALL PLANTING BEDS SHALL BE MULCHED AS SHOWN ON THE DETAILS. ALL COSTS ARE INCIDENTAL TO THE PLANTING ITEM.
- DUE TO THE CITY OF WILMINGTON REMOVE AND REPLACE REQUIREMENTS, THE CONTRACTOR SHALL PLANT SIX (6) ADDITIONAL AMERICAN HOP HORNBEAM TREES (EIGHT IN TOTAL) AT THE DIRECTION OF THE SPONSOR WITHIN A THREE (3) BLOCK RADIUS OF THE PROJECT. THE CONTRACTOR SHALL COORDINATE WITH LATIN AMERICAN COMMUNITY CENTER FOR THE LOCATION OF THE PLANTINGS.
  - (3) TREES AT 417 AND 405 N. HARRISON STREET AND 1201 W. 4TH STREET CORNER
  - (1) TREE AT THE PROPERTY LOCATED AT 1133-1135 W. 4TH STREET
  - (2) TREES AT 301 N. HARRISON STREET
 ALL COSTS SHALL BE PAID UNDER ITEM #737523 - PLANTING. THE POINT OF CONTACT IS:  
 MR. RAFAEL CASTRO  
 FACILITIES DIRECTOR  
 PHONE: (302) 655-7338, EXT. 7704

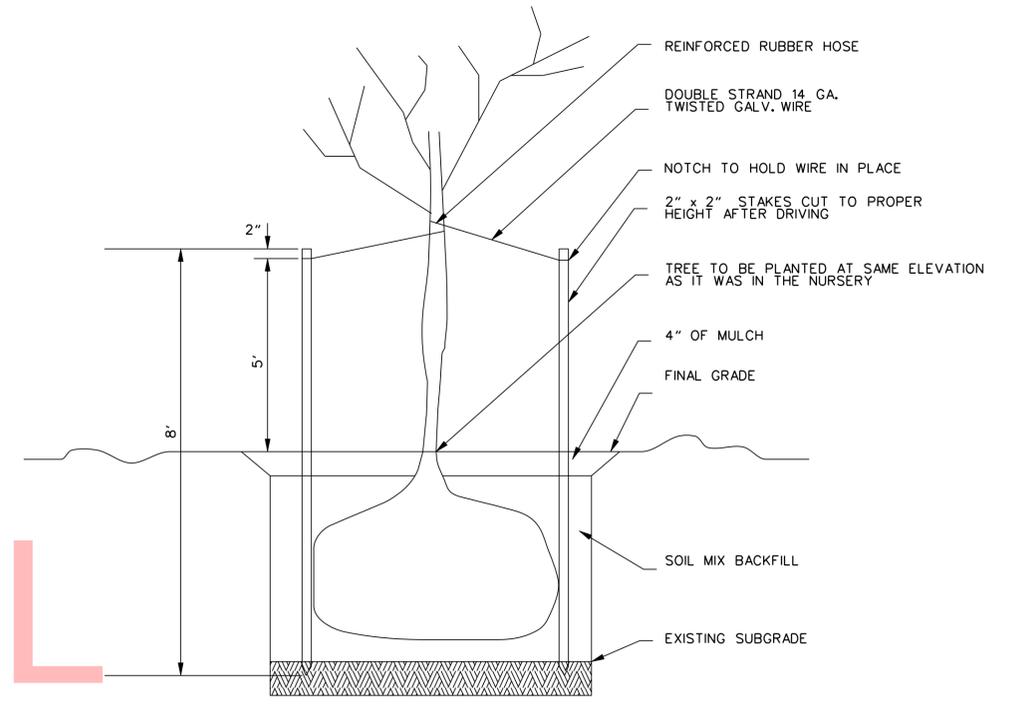


LEGEND	
PROPOSED GROUNDCOVER BED	
PROPOSED PERENNIAL BED	
PROPOSED SHRUB OR ORNAMENTAL GRASS	
PROPOSED EVERGREEN TREE	
PROPOSED DECIDUOUS TREE	

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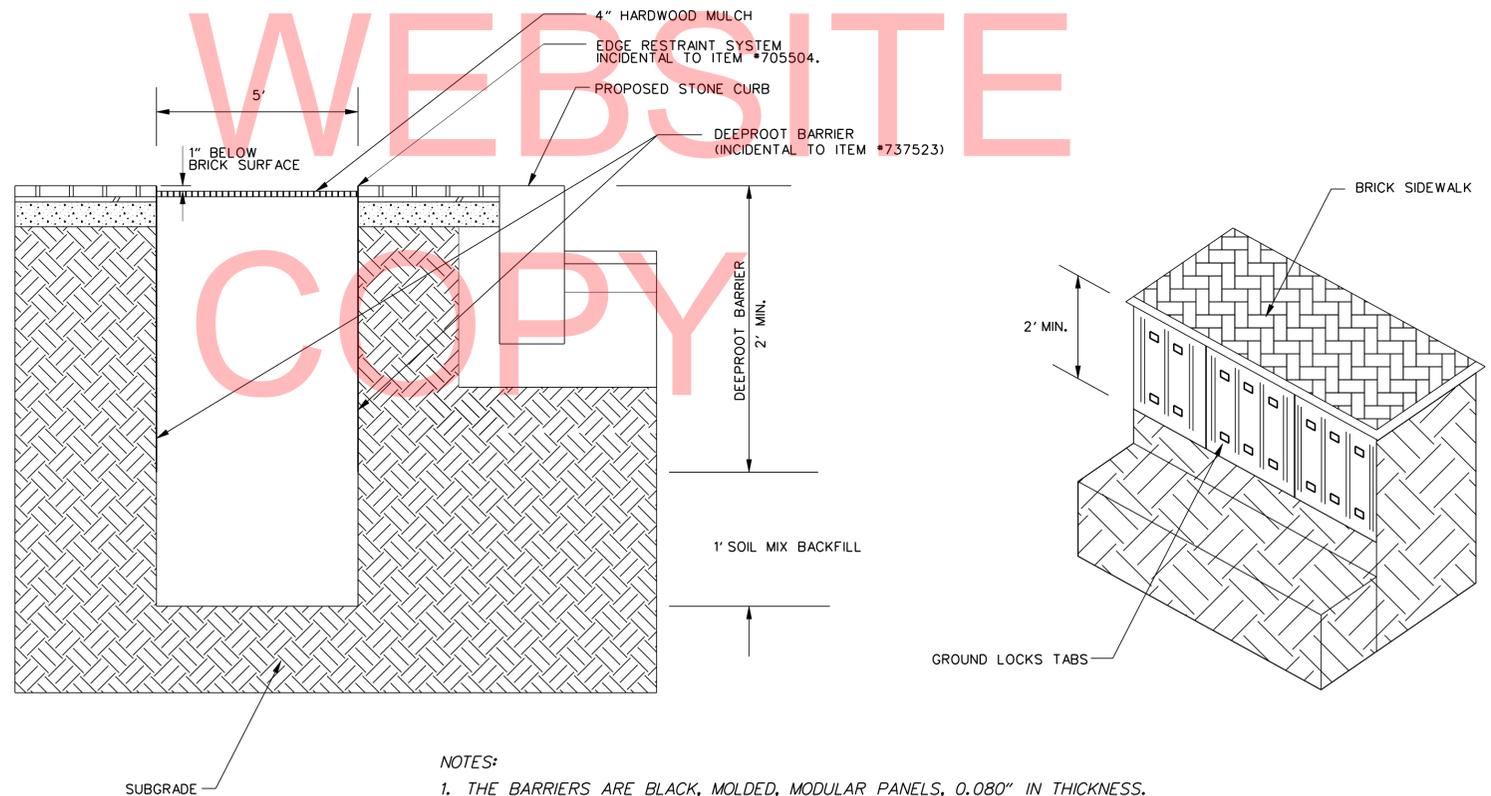


**PLANTER BOX DETAIL**  
N.T.S.



NOTE: ALL ITEMS SHOWN WITHIN THIS DETAIL ARE INCIDENTAL TO THE LANDSCAPING ITEMS.

**TREE STAKING DETAIL**  
N.T.S.



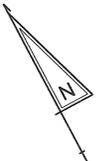
**NOTES:**

1. THE BARRIERS ARE BLACK, MOLDED, MODULAR PANELS, 0.080" IN THICKNESS. EACH PANEL HAS 90 DEGREE ROOT DEFLECTING RIBS, LEVEL WITH THE SIDEWALK SURFACE. THE RIBS HAVE A MINIMUM THICKNESS OF 0.080" AND ARE PLACED 6" APART. AN INTEGRATED SELF-INTERLOCKING JOINING SYSTEM PROVIDES FOR INSTANT ASSEMBLY BY SLIDING ONE PANEL INTO ANOTHER. THIS SYSTEM OR AN EQUIVALENT SYSTEM MUST BE SUBMITTED FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.
2. ALL DEEPROOT BARRIER ITEMS WILL BE INCIDENTAL TO PLANTING - ITEM #737523.

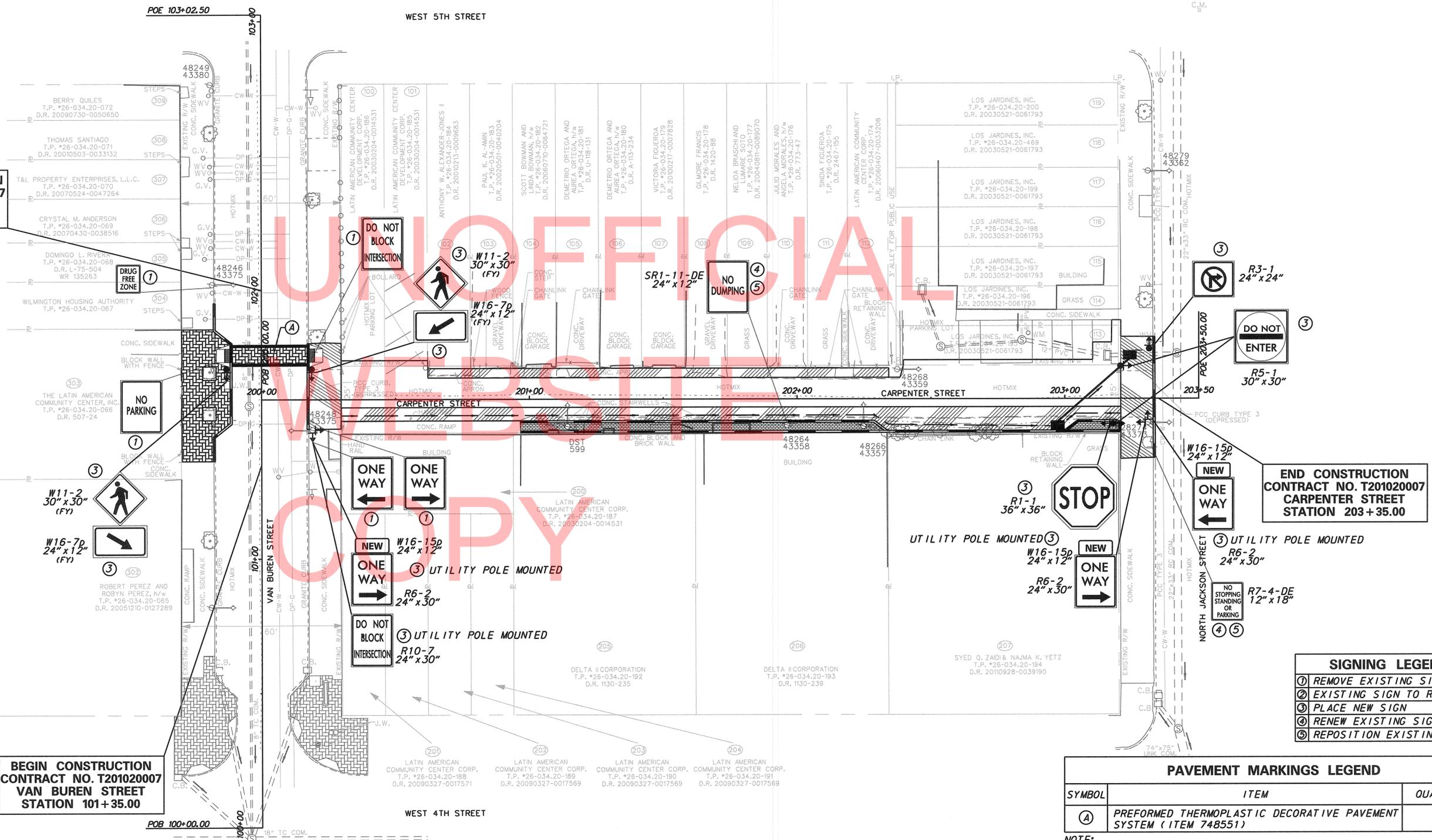
**SECTION A-A DEEPROOT BARRIER DETAIL**  
N.T.S.

ADDENDUMS / REVISIONS

CONTRACT	BRIDGE NO.	-
T201020007	DESIGNED BY:	AMW
COUNTY	CHECKED BY:	WFC
NEW CASTLE		



**LIMIT OF CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 102 + 00.00**



**BEGIN CONSTRUCTION  
CONTRACT NO. T201020007  
VAN BUREN STREET  
STATION 101 + 35.00**

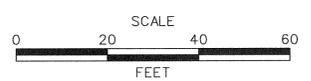
**END CONSTRUCTION  
CONTRACT NO. T201020007  
CARPENTER STREET  
STATION 203 + 35.00**

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	QUANTITY
(A)	PREFORMED THERMOPLASTIC DECORATIVE PAVEMENT SYSTEM (ITEM 748551)	224 SF

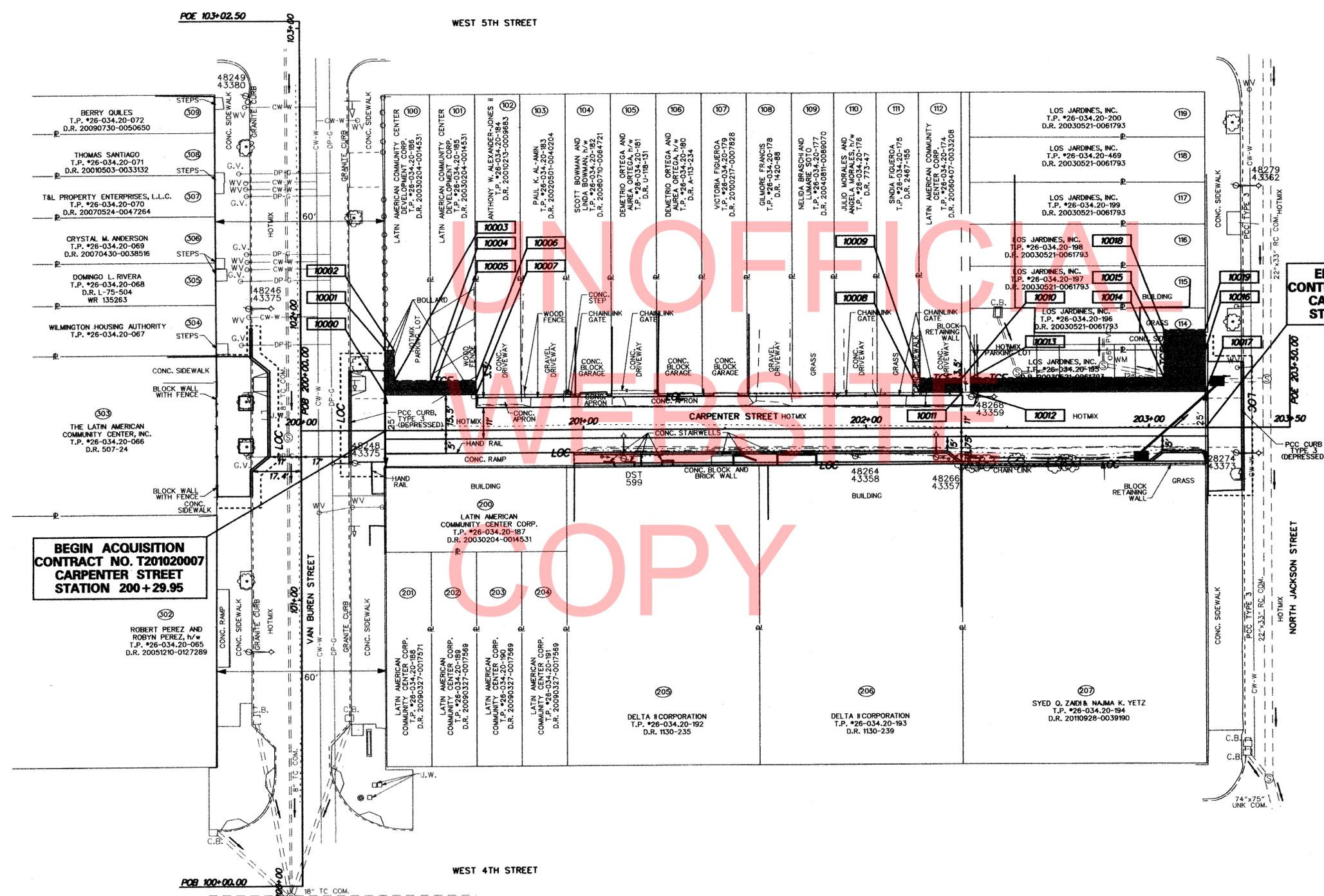
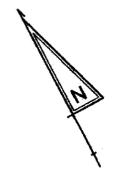
- NOTE:**
- EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED.
  - THIS PROJECT CHANGES THE DIRECTION OF ONE-WAY TRAFFIC FLOW THROUGH THE EXISTING ALLEY, CARPENTER STREET, AS SHOWN.
  - FLORESCENT YELLOW SHALL BE UTILIZED FOR PEDESTRIAN SIGNS.
  - PROPOSED "NEW" PLAQUES SHALL BE REMOVED BY THE CONTRACTOR AFTER 90 DAYS OF NEW TRAFFIC PATTERN. ALL COSTS ARE INCIDENTAL TO THE SIGN INSTALLED.

6/26/2012 G:\PROJECTS\08535.00 (Transportation Enhancement Program)\08535.24 (Task 24, Carpenter St. Alley Enhancements - Final Design)\CADD FILES\ss01CSA.dgn



CONTRACT	BRIDGE NO.	-
T201020007	DESIGNED BY:	AMW
COUNTY	CHECKED BY:	WFC
NEW CASTLE		

SHEET NO.	23
TOTAL SHTS.	25



**BEGIN ACQUISITION  
CONTRACT NO. T201020007  
CARPENTER STREET  
STATION 200 + 29.95**

**END ACQUISITION  
CONTRACT NO. T201020007  
CARPENTER STREET  
STATION 203 + 19.98**

PREPARED BY  
THE CONSULTING FIRM OF  
**MTT CENTURY ENGINEERING**  
CONSULTING ENGINEERS, P.C.  
424 N. DEWITT ST.  
DOVER, DELAWARE 19901  
(302) 734-9188

*William F. Conklin*  
RECOMMENDED  
DATE: APR 30, 2012

RECOMMENDED  
*Manuel Matos*  
LATIN AMERICAN COMMUNITY CENTER  
DATE: 5-8-2012

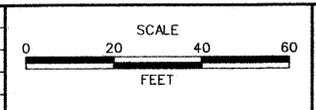
RECOMMENDED  
*Karl*  
CITY OF WILMINGTON  
DATE: 8/17 2012

RECOMMENDED AS TO PROCESS  
*Robert B. McCoy*  
TEAM SUPPORT SQUAD MANAGER  
DATE: 9-26-2012  
*John A. Daulton*  
TEAM SUPPORT ENGINEER  
DATE: 9-26 2012  
*Robert B. McCoy*  
ASSISTANT DIRECTOR ENGINEERING/SUPPORT  
DATE: 9/26 2012

**"AS-ACQUIRED" PLANS**  
I certify that all proposed Right-of-Way has been acquired in the name of THE STATE OF DELAWARE and that these plans accurately depict the nature and extent of THE REAL ESTATE SECTION acquisition under this project.

\_\_\_\_\_  
CHIEF, REAL ESTATE DATE: 20

ADDENDUMS / REVISIONS



**CARPENTER STREET ENHANCEMENTS,  
CITY OF WILMINGTON**

CONTRACT T201020007	BRIDGE NO. -
COUNTY NEW CASTLE	DESIGNED BY: AMW CHECKED BY: WFC

**RIGHT-OF-WAY**

SHEET NO. 24
TOTAL SHTS. 25

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			PROPERTY AREA REMAINING (SQ. FEET /ACRES)	DEED RECORD OF ACQUISITION	REMARKS	
						ACQUISITION (SQ. FEET /ACRES)	AREA OCCUPIED BY EXISTING RIGHT OF WAY (SQ. FEET /ACRES)	EASEMENT				
								PERMANENT (SQ. FEET /ACRES)				TEMPORARY (SQ. FEET /ACRES)
T.P. 26-034.20-186	1	(100) LATIN AMERICAN COMMUNITY CENTER DEVELOPMENT CORP.	D.R. 20030204-0014531	D - 0.04	TCE			112.0957 / 0.00	1742.40 / 0.04			
T.P. 26-034.20-185	1	(101) LATIN AMERICAN COMMUNITY CENTER DEVELOPMENT CORP.	D.R. 20030204-0014531	D - 0.04	TCE			80.00 / 0.00	1742.40 / 0.04			
T.P. 26-034.20-174	1	(112) LATIN AMERICAN COMMUNITY CENTER CORP.	D.R. 20060407-0033208	D - 0.04	TCE			75.2916 / 0.00	1742.40 / 0.04			
T.P. 26-034.20-195	1	(113) LOS JARDINES, INC.	D.R. 20030521-0061793	D - 0.03	TCE			557.0836 / 0.01	1306.80 / 0.03			
T.P. 26-034.20-196	1	(114) LOS JARDINES, INC.	D.R. 20030521-0061793	D - 0.03	TCE			102.709 / 0.00	1306.80 / 0.03			

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COPY

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
T.P. 26-034.20-186	(100) LATIN AMERICAN COMMUNITY CENTER DEVELOPMENT CORP.	TCE	D.R. 20030204-0014531	0.040							
<b>ALIGNMENT NUMBER &amp; DESCRIPTION:</b> 1000 - CARPENTER STREET											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
10000	1000	200+30.00	-12.50	635627.7859	615441.1682	N 27°51'34.85" E	15.6961				
10001	1000	200+29.95	-28.20	635641.6628	615448.5031	S 61°57'10.27" E	3.0374				
10002	1000	200+32.99	-28.20	635640.2346	615451.1837	S 28°02'49.73" W	10.6960				
10003	1000	200+32.99	-17.50	635630.7947	615446.1545	S 61°57'10.27" E	12.9567				
10004	1000	200+45.94	-17.50	635624.7025	615457.5896	S 27°51'34.85" W	5.0000				
10005	1000	200+45.96	-12.50	635620.2820	615455.2530	N 61°57'10.27" W	15.8591				
10000	1000	200+30.00	-12.50	635627.7859	615441.1682						
FIGURE 30100 AREA = 112,0957 SQ. FT. (0.0026 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
T.P. 26-034.20-195	(113) LOS JARDINES, INC.	TCE	D.R. 20030521-0061793	0.030							
<b>ALIGNMENT NUMBER &amp; DESCRIPTION:</b> 1000 - CARPENTER STREET											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
10012	1000	202+37.02	-12.50	635530.4475	615623.8723	N 27°53'49.73" E	5.0000				
10013	1000	202+37.00	-17.50	635534.8665	615626.2117	S 61°57'10.27" E	68.3395				
10014	1000	203+05.34	-17.50	635502.7334	615686.5255	N 28°02'49.73" E	9.7000				
10015	1000	203+05.34	-27.20	635511.2942	615691.0864	S 61°57'10.27" E	14.6351				
10016	1000	203+19.98	-27.20	635504.4128	615704.0028	S 27°53'49.73" W	14.7001				
10017	1000	203+20.02	-12.50	635491.4211	615697.1248	N 61°57'10.27" W	83.0000				
10012	1000	202+37.02	-12.50	635530.4475	615623.8723						
FIGURE 30113 AREA = 557,0836 SQ. FT. (0.0128 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
T.P. 26-034.20-185	(101) LATIN AMERICAN COMMUNITY CENTER DEVELOPMENT CORP.	TCE	D.R. 20030204-0014531	0.040							
<b>ALIGNMENT NUMBER &amp; DESCRIPTION:</b> 1000 - CARPENTER STREET											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
10005	1000	200+45.96	-12.50	635620.2820	615455.2530	N 27°51'34.85" E	5.0000				
10004	1000	200+45.94	-17.50	635624.7025	615457.5896	S 61°57'10.27" E	16.0000				
10006	1000	200+61.94	-17.50	635617.1793	615471.7106	S 27°51'34.85" W	5.0000				
10007	1000	200+61.96	-12.50	635612.7588	615469.3740	N 61°57'10.27" W	16.0000				
10005	1000	200+45.96	-12.50	635620.2820	615455.2530						
FIGURE 30101 AREA = 80,0000 SQ. FT. (0.0018 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
T.P. 26-034.20-196	(114) LOS JARDINES, INC.	TCE	D.R. 20030521-0061793	0.030							
<b>ALIGNMENT NUMBER &amp; DESCRIPTION:</b> 1000 - CARPENTER STREET											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
10016	1000	203+19.98	-27.20	635504.4128	615704.0028	N 61°57'10.27" W	14.6351				
10015	1000	203+05.34	-27.20	635511.2942	615691.0864	N 28°02'49.73" E	7.0224				
10018	1000	203+05.34	-34.22	635517.4919	615694.3883	S 61°57'10.27" E	14.6167				
10019	1000	203+19.96	-34.22	635510.6192	615707.2884	S 27°53'49.73" W	7.0224				
10016	1000	203+19.98	-27.20	635504.4128	615704.0028						
FIGURE 30114 AREA = 102,7090 SQ. FT. (0.0024 ACRES)											

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
T.P. 26-034.20-174	(112) LATIN AMERICAN COMMUNITY CENTER CORP.	TCE	D.R. 20060407-0033208	0.040							
<b>ALIGNMENT NUMBER &amp; DESCRIPTION:</b> 1000 - CARPENTER STREET											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
10008	1000	202+18.96	-12.50	635538.9377	615607.9361	N 27°51'34.86" E	5.0000				
10009	1000	202+18.94	-17.50	635543.3582	615610.2727	S 61°57'10.27" E	15.0600				
10010	1000	202+34.00	-17.50	635536.2771	615623.5640	S 27°53'49.73" W	5.0000				
10011	1000	202+34.02	-12.50	635531.8581	615621.2246	N 61°57'10.27" W	15.0567				
10008	1000	202+18.96	-12.50	635538.9377	615607.9361						
FIGURE 30112 AREA = 75,2916 SQ. FT. (0.0017 ACRES)											

6/12/2012 G:\PROJECTS\08535.00 (Transportation Enhancement Program)\08535.24 (Task 24, Carpenter St. Alley Enhancements - Final Design)\CADD FILES\RW\_sheet01\_CSA.dgn