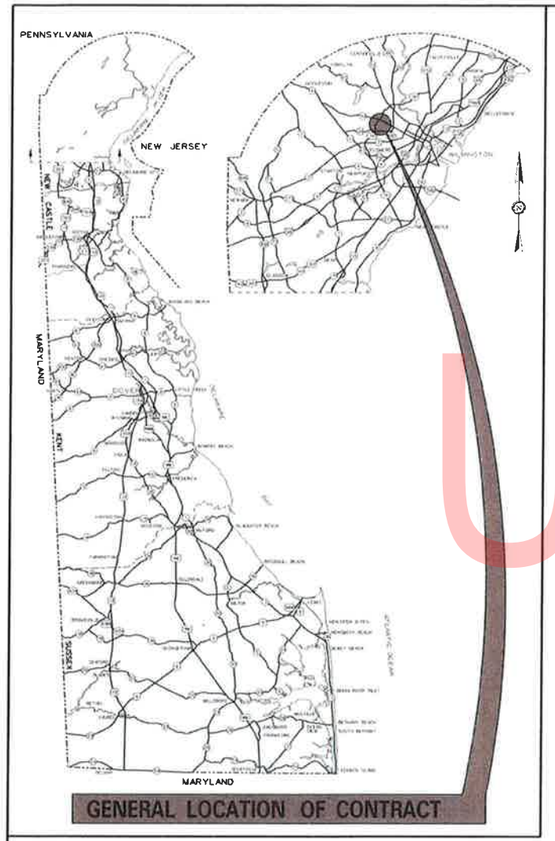


GENERAL LOCATION OF CONTRACT

THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLANS FOR:

CHESTNUT RUN PLAZA
PEDESTRIAN IMPROVEMENTS

CONTRACT NUMBER: T201801102

FEDERAL AID PROJECT NUMBER: N/A

COUNTY: NEW CASTLE M.R. #: 271

U.S. CUSTOMARY UNITS

DESIGN DESIGNATION

RD 141

FUNCTIONAL CLASS: N/A	D.H.V. PROJECTED: N/A	YEAR: N/A
TYPE OF CONSTRUCTION: PEDESTRIAN IMPROVEMENTS	DESIGN SPEED: N/A	
A.A.D.T. CURRENT: N/A YEAR: N/A	TRUCKS: N/A	
A.A.D.T. PROJECTED: N/A YEAR: N/A	DIRECTION OF DISTRIBUTION: N/A	

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME
79-011-03	ROUTE 141 RELOCATED - LANCASTER PIKE TO MONTCHANIN ROAD
95-106-01	RT. 141LANCASTER PIKE
T201706102	REHABILITATION OF CENTRE ROAD - ROUTE 141

APPROVED FOR ADVERTISEMENT

Edward B. McCleary 4/9/2019

DIRECTOR OF TRANSPORTATION SOLUTIONS DATE

PREPARED BY CENTURY ENGINEERING
CONSULTING ENGINEERS, SURVEYORS
4124 N. DUPONT HWY.
DOVER, DELAWARE 19901
(302) 734-8188

3/27/19
DATE

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

THOMAS M. BANEZ LICENSED No. 13701 DELAWARE PROFESSIONAL ENGINEER
SEAL

SPONSORED BY DUPONT

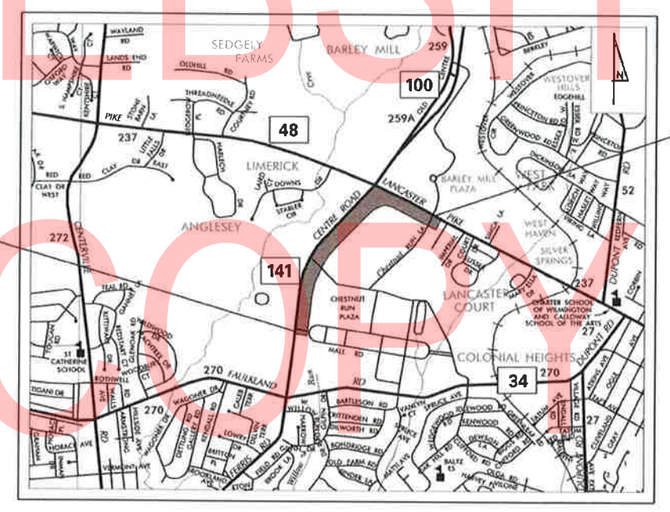
Donald C. Lynch 3/29/19

DuPont Specialty Products USA, LLC
AS PERTAINS TO PROJECT PARCEL 101

DATE

BEGIN CONTRACT
CENTRE ROAD
STATION 111+00.00

END CONTRACT
LANCASTER PIKE
STATION 43+00.00



PROJECT LOCATION
NOT TO SCALE

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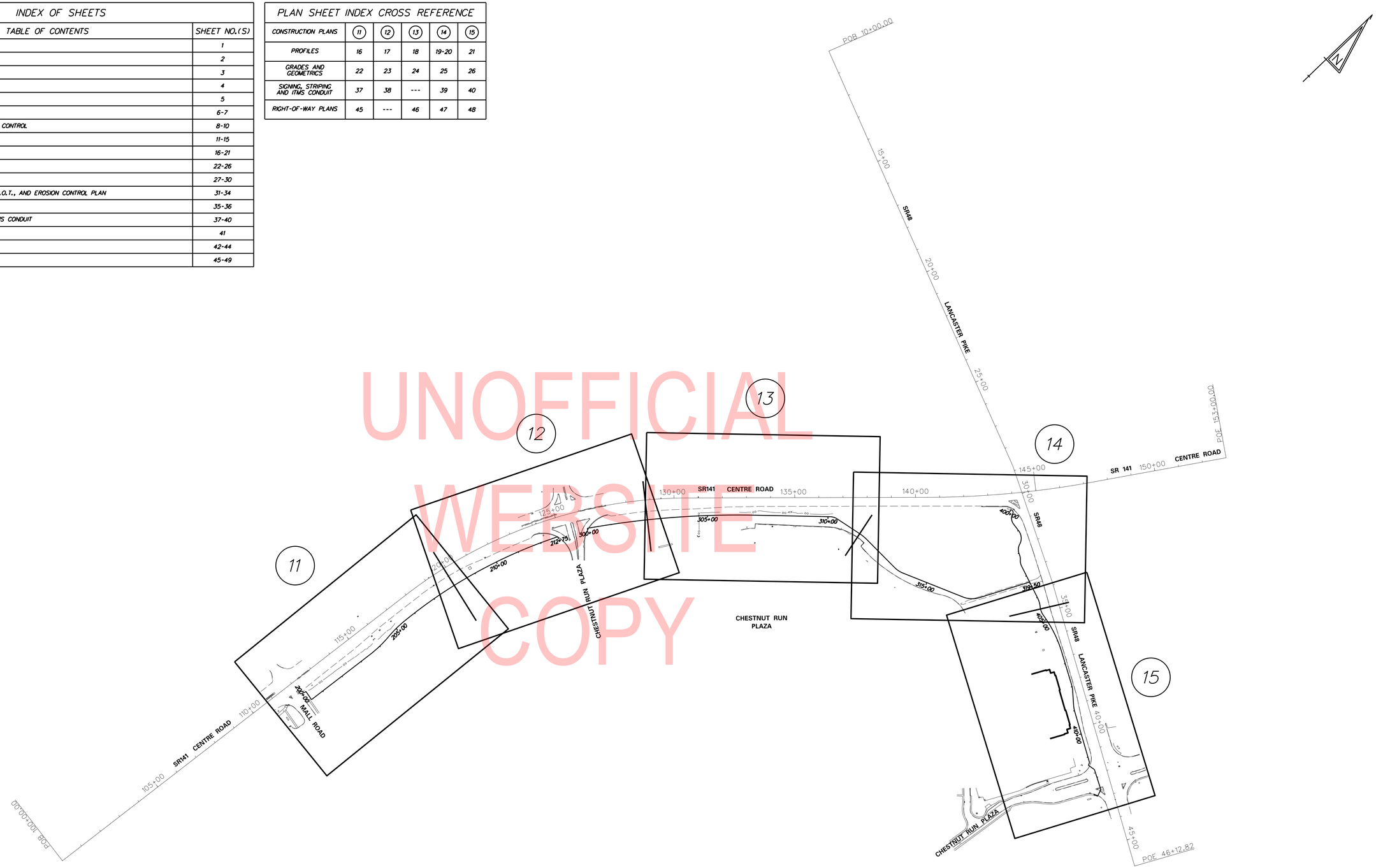

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ADDENDA / REVISIONS	

SCALE
0 200 400 600
FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

PLAN SHEET INDEX

SECTION
CEI
SHEET NO.
2

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ADDENDA / REVISIONS

NOT TO SCALE

CHESTNUT RUN PLAZA
PEDESTRIAN IMPROVEMENTS

CONTRACT	T201801102
COUNTY	NEW CASTLE
BRIDGE NO.	N/A
DESIGNED BY: TMB	
CHECKED BY: WFC	

ADDENDA AND REVISIONS

AR–01

SECTION	CEI
SHEET NO.	3

EXISTING SYMBOLS

DRAINAGE

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

MANMADE ROADSIDE FEATURES

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

NATURAL ROADSIDE FEATURES

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

RIGHT-OF-WAY SYMBOLS

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

SURVEY CONTROL & MONUMENTATION

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

UTILITY

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

UTILITY COMPANY FACILITIES

DP-E	DELMARVA POWER - ELECTRIC (D)
DP-G	DELMARVA POWER - GAS (D)
NC-S	NEW CASTLE COUNTY - SEWER (D)
CW-S	CITY OF WILMINGTON - SEWER (D)
CW-W	CITY OF WILMINGTON - WATER (D)
COM-C	COMCAST (D)
VER-C	VERIZON (D)
E-UG	PRIVATE ELECTRIC (D)
COM-UG	PRIVATE COMMUNICATION (D)

(X) REPRESENTS ASCE DEFINED SUE QUALITY LEVEL

PROPOSED SYMBOLS

CONSTRUCTION

	CONCRETE SAFETY BARRIER - PERMANENT
BFS	BIOFILTRATION SWALE
	BRICK PATTERNED SURFACE
	BUTT JOINT
CZ	CLEAR ZONE
100+00	CONSTRUCTION BASELINE
CSF	CONSTRUCTION SAFETY FENCE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB & GUTTER, TYPE 4
	CURB OPENING - SUMP / ON GRADE
	CURB OPENING WITH SIDEWALK
	DRAINAGE INLET
	DITCH
	FENCE - METAL / FENCE - WOOD
	FLARED END / SAFETY END SECTION
	GUARDRAIL, TYPE 1
	GUARDRAIL, TYPE 2
	GUARDRAIL, TYPE 3
	GUARDRAIL END ANCHORAGE
	GUARDRAIL END TREATMENT, TYPE 1
	GUARDRAIL END TREATMENT, TYPE 2
	GUARDRAIL END TREATMENT, TYPE 3
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
LO	LATERAL OFFSET
LOC	LIMIT OF CONSTRUCTION
MB	MAILBOX
	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK - 4"
	P.C.C. SIDEWALK - 6" (USE 8" DEPTH FOR CHANNELIZATION ISLANDS.)
	UNDERDRAIN
	UNDERDRAIN OUTLET

RIGHT-OF-WAY SYMBOLS

	PROPOSED RIGHT-OF-WAY MONUMENT
DA	PROPOSED DENIAL OF ACCESS
PE	PROPOSED PERMANENT EASEMENT
R/W	PROPOSED RIGHT-OF-WAY
R/W-DA	PROPOSED R/W & DENIAL OF ACCESS
RTE	RIGHT-TO-ENTER
TCE	TEMPORARY CONSTRUCTION EASEMENT
100+00	PROPOSED RIGHT-OF-WAY BASELINE

IDENTIFIERS

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

LANDSCAPING

LS XXX	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

TRAFFIC

ITMS-CON	ITMS CONDUIT
SIG-CON	SIGNAL CONDUIT
	CONDUIT JUNCTION WELL
	LUMINAIRE
	PAVEMENT MARKINGS
	PAVEMENT STRIPING
	TRAFFIC SIGN

PAVEMENT SECTION(S)

	PATH PAVEMENT: SEE TYPICAL SECTIONS
	PAVEMENT PATCH: SEE TYPICAL SECTIONS

EROSION & SEDIMENT CONTROL

CFL	COMPOST FILTER LOG
CFL	COMPOST FILTER LOG / LENGTH
DWBAG	DEWATERING BAG
DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
SF	SILT FENCE
RSF	REINFORCED SILT FENCE / LENGTH
RSF	REINFORCED SILT FENCE
SSF	SUPER SILT FENCE / LENGTH
SSF	SUPER SILT FENCE
SP	SUMP PIT
ST	SEDIMENT TRAP / NUMBER
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T XXX	TURBIDITY CURTAIN / LENGTH
T	TURBIDITY CURTAIN

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ADDENDA / REVISIONS

NOT TO SCALE

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT T201801102	BRIDGE NO. N/A	LEGEND
COUNTY NEW CASTLE	DESIGNED BY: TMB	SECTION CEI
	CHECKED BY: WFC	SHEET NO. 4

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GENERAL NOTES

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2016 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2014, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

2. ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR, INCLUDE:

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

NOTE: THE DOCUMENT ENTITLED "RELEASE FOR DELIVERY OF DOCUMENTS IN ELECTRONIC FORM TO A CONTRACTOR" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

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

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

4. THE ADDITIONAL IMPERVIOUS AREA CREATED BY THIS PROJECT IS 0.98 ACRES.

5. 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.

PROJECT NOTES

SECTION 100

1. ANY DAMAGE DONE BY THE CONTRACTOR TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR OR OTHERS, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE. ROADSIDE AMMENITIES WITHIN THE LIMITS OF CONSTRUCTION OR EASEMENT AREAS THAT ARE TO REMAIN IN PLACE AND ARE NOTED "DND" SHALL BE PROTECTED BY THE CONTRACTOR WITH SAFETY FENCE OR OTHER MEASURES AS DIRECTED BY THE ENGINEER. ALL PROTECTIVE COSTS SHALL BE INCIDENTAL TO ITEM 201000. ANY DAMAGE TO THESE AMMENITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR THE AMMENITY IS TO BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

2. THE CONTRACTOR WILL CONTACT THE DELAWARE TMC AT 302-659-4600 PRIOR TO ANY UNMANNED AIRCRAFT VEHICLE (UAV) FLIGHTS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE FOLLOWING INFORMATION:
   - THE FLIGHT REGISTRATION NUMBER OF THE UAV
   - THE FLIGHT TIME
   - THE PILOTS' NAME AND CONTACT NUMBER DURING THE FLIGHT

3. ALL EXISTING INLETS AND PIPES WITHIN THE PROJECT LIMITS THAT ARE TO REMAIN SHALL BE CLEANED OUT. COST IS INCIDENTAL TO ITEM 201000.

SECTION 200

4. ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS:
   - CONDUIT JUNCTION WELLS DESIGNATED TO BE REMOVED BY THE CONTRACTOR.
   - CHAIN LINK FENCE AND FOUNDATIONS FOR CHAIN LINK FENCE
   - THE CONTRACTOR SHALL RELOCATE THE TWO SIGNS IN FRONT OF PROJECT PARCEL 102 AT STA. 410+25 AND STA. 410+80. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF THESE TWO SIGNS WITH THE PROPERTY OWNER AND THE ENGINEER. COST FOR RELOCATION OF THE TWO SIGNS SHALL BE INCLUDED IN ITEM 211000.

5. THE CONTRACTOR SHALL USE ITEM 204000 - TEST HOLES, WHERE PROPOSED FENCE CROSSES EXISTING UNDERGROUND UTILITIES TO VERIFY THAT PROPOSED FENCE POSTS DO NOT CONFLICT WITH THE UTILITIES. IF A CONFLICT IS FOUND, THE CONTRACTOR SHALL ADJUST FENCE POST SPACING TO ELIMINATE THE CONFLICT.

SECTION 700

6. 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.

7. WHERE PROPOSED CONCRETE SIDEWALK IS CONSTRUCTED TO MEET EXISTING SIDEWALK, THE EXISTING SIDEWALK SHALL BE SAWCUT AT THE TIE-IN POINT OR MEET THE NEAREST EXISTING SIDEWALK JOINT. ALL SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER AND SHALL BE PAID FOR UNDER ITEM 762001 - SAWCUTTING, CONCRETE, FULL DEPTH.

8. ALL DISTURBED AREAS WITHIN THE LIMIT OF CONSTRUCTION, SHALL BE TOPSOILED (6" MINIMUM), AND SEEDED AS DIRECTED BY THE ENGINEER. ALL COSTS ARE PAID UNDER THE RESPECTIVE ITEMS BEING INSTALLED.

9. ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT.

10. ALL EXISTING SIGNS ON THE EXISTING FENCE TO BE REMOVED ARE TO BE SALVAGED AND PLACED ON THE PROPOSED CHAIN LINK FENCE IN A SIMILAR POSITION AND PROXIMITY. COST IS INCIDENTAL TO ITEM 727000 - CHAIN LINK FENCE.

11. THE PROPOSED CHAIN LINK FENCE IS TO BE TIED INTO THE EXISTING CHAIN LINK FENCE AT BOTH ENDS WITH TERMINAL POSTS. ALL COSTS ARE INCIDENTAL TO ITEM 727000 - CHAIN LINK FENCE.

12. THE LOCATIONS OF ALL ABOVE GROUND ITEMS TO BE INSTALLED, SUCH AS FENCES, SIGNS, LANDSCAPING, ETC., SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION. ALL COSTS INCIDENTAL TO THE CONTRACT.

13. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF ALL ABOVE GROUND ITEMS, SUCH AS FENCES, SIGNS, LANDSCAPING, ETC. THE CONTRACTOR SHALL COORDINATE ACCESS TO CHESTNUT RUN PLAZA AND VERIFICATION OF PRIVATE UNDERGROUND UTILITIES WITH DON LYNCH OF DUPONT, PHONE NUMBER (302) 999-6018 (OFFICE) OR (302) 218-9443 (CELL). ALL COSTS INCIDENTAL TO THE CONTRACT.

SECTION 900

14. 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 NOI IS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S TEAM SUPPORT SECTION. A COPY OF THE GENERAL PERMIT OR THE NOI CAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.

15. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN AREA SUITABLE FOR STOCKPILING BORROW, TOPSOIL, AND OTHER FILL MATERIAL REQUIRED FOR THE PROJECT IN ACCORDANCE WITH SECTION 908.01 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.

MISCELLANEOUS:

16. THE CONTRACTOR SHALL CONTACT THE CHIEF OF SCHEDULING FOR DART FIRST STATE 14 DAYS PRIOR TO THE START OF CONSTRUCTION AT 302-576-6191 OR BY EMAIL NOTIFICATION TO DOT_DETOURS@STATE.DE.US.

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

18. THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE PRIOR TO BIDDING. ATTENTION SHOULD BE PAID TO SITE ACCESS, AVAILABLE WORKING SPACE, AND MOVEMENT OF MATERIALS AND EQUIPMENT WITHIN THE WORK ZONE. SMALL, NON-CONVENTIONAL PAVING EQUIPMENT AND SMALL TRUCKS MAY BE REQUIRED TO SUPPLY ALL OR A PORTION OF THE MATERIALS TO THE WORK AREA, AND TO SUCCESSFULLY PAVE THE PATH. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED FOR SITE ACCESS, REQUIRED NON-CONVENTIONAL EQUIPMENT, THE CONTRACTOR'S ABILITY TO EXCAVATE, GRADE, AND PAVE THE PATH TO THE PLANNED GEOMETRY, AND/OR FOR SUPPLY AND MOVEMENT OF ALL REQUIRED MATERIALS WITHIN THE CONTRACT LIMITS.

19. AFTER ANY PORTION OF THE STONE SUBGRADE HAS BEEN APPROVED BY THE ENGINEER FOR PAVING, ANY SUBSEQUENT REGRADING OR ADDITION OF STONE DUE TO EQUIPMENT OR TRUCKING DAMAGE TO THE SUBGRADE SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOT USE THE PROPOSED PATH AS A HAUL ROAD ONCE IT HAS BEEN PAVED.

20. IT IS INTENDED TO CLEAR AND GRUB ONLY ENOUGH VEGETATION NECESSARY FOR THE CONSTRUCTION OF THE PATH AND FENCING. THE CONTRACTOR SHALL NOT CLEAR AND GRUB WITHIN OR BEYOND THE LIMITS OF CONSTRUCTION, UNLESS APPROVED BY THE ENGINEER.

21. THE CONTRACTOR IS TO REMOVE TREES FROM WITHIN THE LOC ONLY, FROM STA. 306+00 TO STA. 311+50.

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6/7/2019
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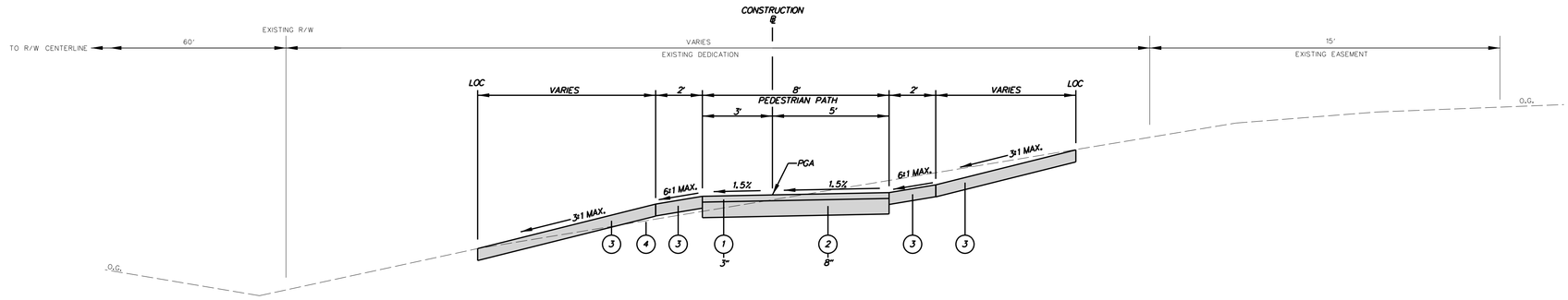
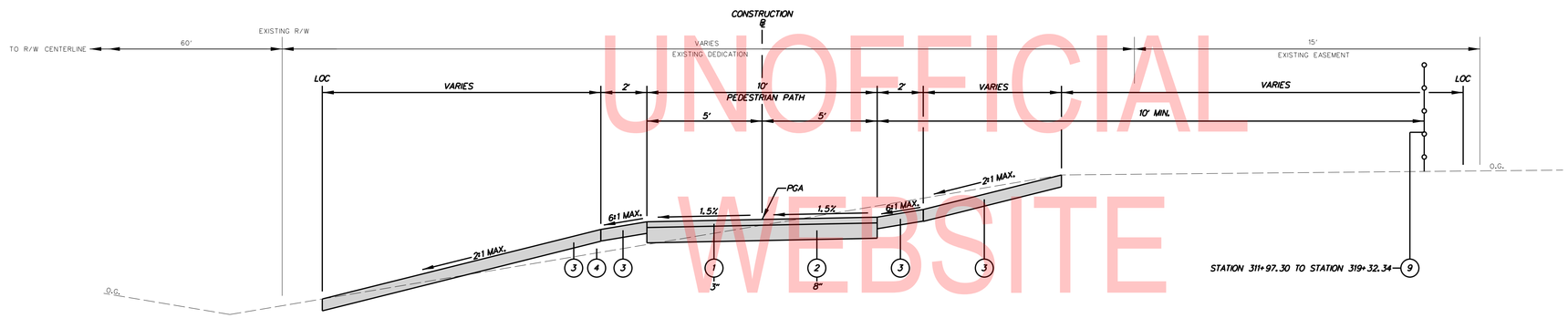
ADDENDA / REVISIONS	NOT TO SCALE	CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS	CONTRACT T201801102	BRIDGE NO. N/A	NOTES	PN–01 SECTION CEI
			COUNTY NEW CASTLE	DESIGNED BY: TMB		SHEET NO. 5
				CHECKED BY: WFC		



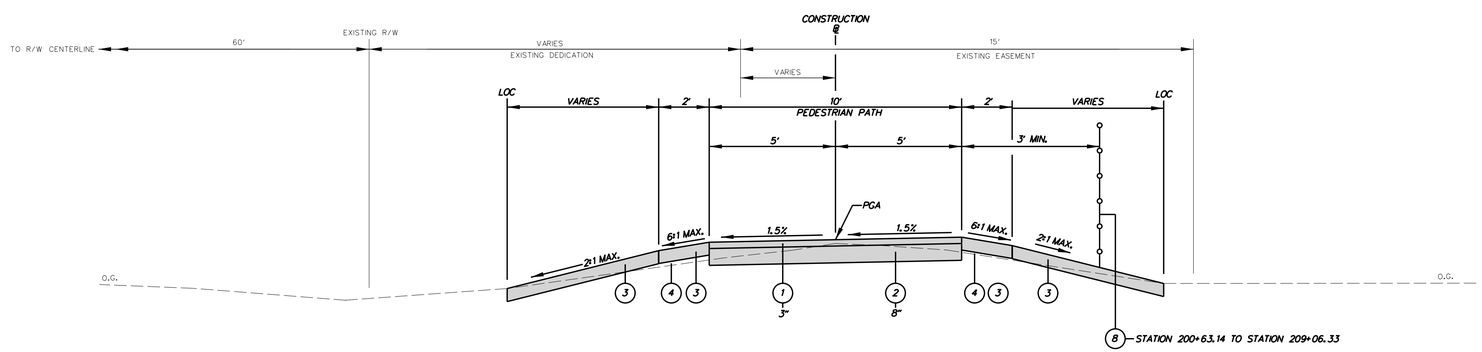
CHESTNUT RUN PLAZA PEDESTRIAN PATH

STATION 307+50 TO STATION 311+00



CHESTNUT RUN PLAZA PEDESTRIAN PATH

STATION 300+00 TO STATION 307+00
STATION 311+50 TO STATION 319+50



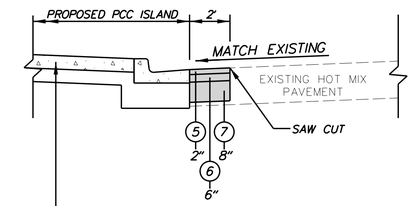
CHESTNUT RUN PLAZA PEDESTRIAN PATH

STATION 200+00 TO STATION 212+75

UNOFFICIAL WEBSITE COPY

LEGEND

1. ITEM 401005 - SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)
2. ITEM 301001 - GRADED AGGREGATE BASE COURSE, TYPE B
3. ITEM 908004 - TOPSOIL, 6" DEPTH
   ITEM 908016 - GRASS SEEDING, SUBDIVISION
4. ITEM 209006 - BORROW, TYPE F
5. ITEM 401029 - SUPERPAVE TYPE C, PG 64-22, PATCHING
6. ITEM 401030 - SUPERPAVE TYPE B, PG 64-22, PATCHING
7. ITEM 301002 - GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING
8. ITEM 727000 - CHAIN LINK FENCE
9. ITEM 727005 - DECORATIVE FENCE



PATCHING DETAIL

N.T.S.

705002 PCC SIDEWALK 6" OR 705519 PATTERNED PORTLAND CEMENT CONCRETE SIDEWALK, 6"

PAVEMENT MATERIAL LIFT THICKNESS

MATERIAL	MINIMUM	MAXIMUM
SUPERPAVE, TYPE C	1.25"	3"
SUPERPAVE, TYPE B	2.25"	4"
GABC	3"	8"

NOTE: THE PAY ADJUSTMENT FACTOR FOR COMPACTION WILL BE WAIVED FOR THIS PROJECT.

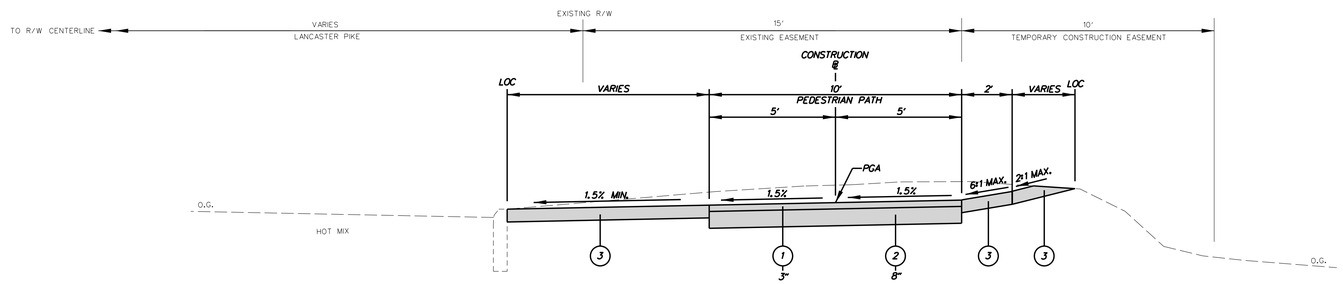
ABBREVIATIONS

PR - POINT OF ROTATION
PDGA - PROFILE DITCH GRADE APPLICATION
PGA - PROFILE GRADE APPLICATION

TS-01

ADDENDA / REVISIONS	NOT TO SCALE	CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS	CONTRACT T201801102	BRIDGE NO. N/A	TYPICAL SECTIONS	SECTION CEI
			COUNTY NEW CASTLE	DESIGNED BY: TMB		SHEET NO. 6
				CHECKED BY: WFC		

6/3/2019 3:36:29 PM \\WVDOT\ES\Snap\PROJECTS\155002.00 (DelDOT Agmt. 1730 TAP)\155002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\ts01_crp.dgn

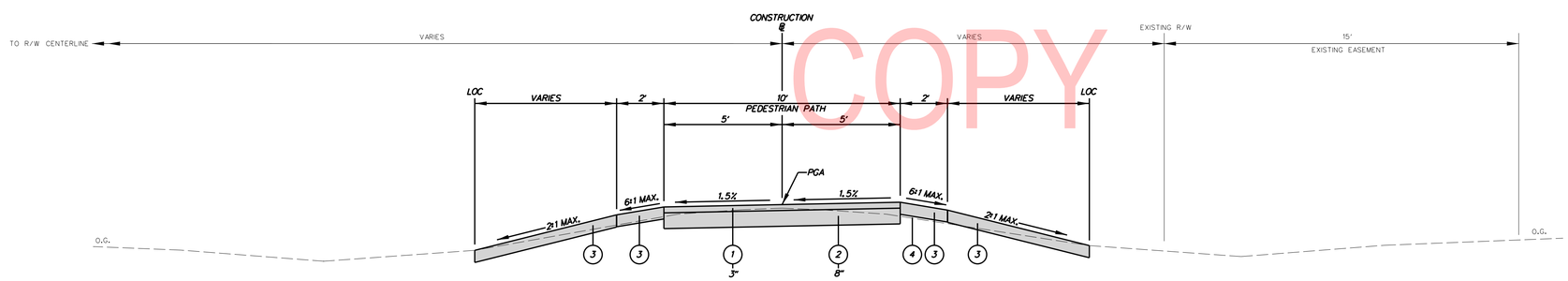


CHESTNUT RUN PLAZA PEDESTRIAN PATH

STATION 405+50 TO STATION 410+61.50

NOTE: PROPOSED PATH IS IN EXISTING EASEMENT FROM STATION 408+40 TO STATION 411+49.

UNOFFICIAL WEBSITE COPY

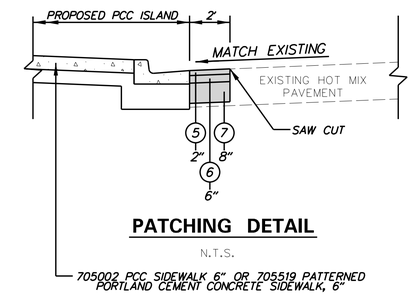


CHESTNUT RUN PLAZA PEDESTRIAN PATH

STATION 400+00 TO STATION 405+50

LEGEND

1. ITEM 401005 - SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)
2. ITEM 301001 - GRADED AGGREGATE BASE COURSE, TYPE B
3. ITEM 908004 - TOPSOIL, 6" DEPTH
   ITEM 908016 - GRASS SEEDING, SUBDIVISION
4. ITEM 209006 - BORROW, TYPE F
5. ITEM 401029 - SUPERPAVE TYPE C, PG 64-22, PATCHING
6. ITEM 401030 - SUPERPAVE TYPE B, PG 64-22, PATCHING
7. ITEM 301002 - GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING
8. ITEM 727000 - CHAIN LINK FENCE
9. ITEM 727005 - DECORATIVE FENCE



PATCHING DETAIL

N.T.S.

PAVEMENT MATERIAL LIFT THICKNESS

MATERIAL	MINIMUM	MAXIMUM
SUPERPAVE, TYPE C	1.25"	3"
SUPERPAVE, TYPE B	2.25"	4"
GABC	3"	8"

NOTE: THE PAY ADJUSTMENT FACTOR FOR COMPACTION WILL BE WAIVED FOR THIS PROJECT.

ABBREVIATIONS

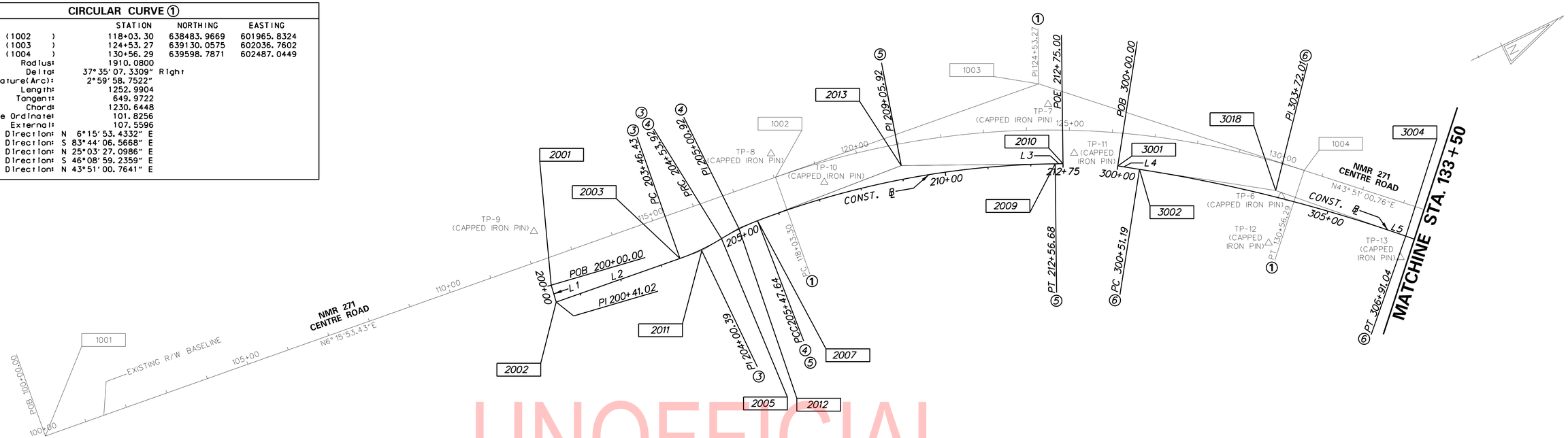
PR - POINT OF ROTATION
PDGA - PROFILE DITCH GRADE APPLICATION
PGA - PROFILE GRADE APPLICATION

ADDENDA / REVISIONS	NOT TO SCALE	CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS	CONTRACT T201801102	BRIDGE NO. N/A	TYPICAL SECTIONS	TS-02 SECTION CEI
			COUNTY NEW CASTLE	DESIGNED BY: TMB		SHEET NO. 7
				CHECKED BY: WFC		

6/3/2019 \\WORKSPACE\Snap\PROJECTS\15002.00 (DelDOT Agmt. 1730 TAP)\15002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\ts02_crp.dgn 3:46:30 PM

CIRCULAR CURVE ①

	STATION	NORTHING	EASTING
PC (1002)	118+03.30	638483.9669	601965.8324
PI (1003)	124+53.27	639130.0575	602036.7602
PT (1004)	130+56.29	639598.7871	602487.0449
Radius:	1910.0800		
Delta:	37°35'07.3309" Right		
Degree of Curvature(Arc):	2°59'58.7522"		
Length:	1252.9904		
Tangent:	649.9722		
Chord:	1230.6448		
Middle Ordinate:	101.8256		
External:	107.5596		
Tangent Direction:	N 6°15'53.4332" E		
Radial Direction:	S 83°44'06.5668" E		
Chord Direction:	N 25°03'27.0986" E		
Radial Direction:	S 46°08'59.2359" E		
Tangent Direction:	N 43°51'00.7641" E		



CONSTRUCTION ALIGNMENT TANGENT BEARINGS

LINE	BEARING
L1	S80° 37' 06.4426" E
L2	N6° 22' 38.5635" E
L3	N25° 06' 42.9934" E
L4	N34° 38' 48.7160" E
L5	N45° 07' 16.6295" E

CIRCULAR CURVE ③

	STATION	NORTHING	EASTING
PC (2003)	203+46.43	638201.2995	602039.4970
PI (2011)	204+00.39	638254.9179	602045.4898
CC (2004)		638256.8378	601542.5910
PRC (2005)	204+53.92	638308.5805	602039.9065
Radius:	500.0000		
Delta:	12°19'02.2370" Left		
Degree of Curvature(Arc):	11°27'32.9612"		
Length:	107.4886		
Tangent:	53.9523		
Chord:	107.2818		
Middle Ordinate:	2.8857		
External:	2.9024		
Tangent Direction:	N 6°22'38.5635" E		
Radial Direction:	S 83°37'21.4365" E		
Chord Direction:	N 0°13'07.4450" E		
Radial Direction:	N 84°03'36.3265" E		
Tangent Direction:	N 5°56'23.6735" W		

CIRCULAR CURVE ④

	STATION	NORTHING	EASTING
PRC (2005)	204+53.92	638308.5805	602039.9065
PI (2012)	205+00.92	638355.3257	602035.0430
CC (2006)		638360.3232	602537.2220
PCC (2007)	205+47.64	638402.1584	602038.9753
Radius:	500.0000		
Delta:	10°44'22.1339" Right		
Degree of Curvature(Arc):	11°27'32.9612"		
Length:	93.7197		
Tangent:	46.9975		
Chord:	93.5825		
Middle Ordinate:	2.1942		
External:	2.2039		
Tangent Direction:	N 5°56'23.6735" W		
Radial Direction:	N 84°03'36.3265" E		
Chord Direction:	N 0°34'12.6065" W		
Radial Direction:	S 85°12'01.5395" E		
Tangent Direction:	N 4°47'58.4605" E		

CIRCULAR CURVE ⑤

	STATION	NORTHING	EASTING
PCC (2007)	205+47.64	638402.1584	602038.9753
PI (2013)	209+05.92	638759.1801	602068.9526
CC (2008)		638234.8176	604031.9622
PT (2009)	212+56.68	639083.5939	602221.0015
Radius:	2000.0000		
Delta:	20°18'44.5329" Right		
Degree of Curvature(Arc):	2°51'53.2403"		
Length:	709.0355		
Tangent:	358.2781		
Chord:	705.3282		
Middle Ordinate:	31.3385		
External:	31.8374		
Tangent Direction:	N 4°47'58.4605" E		
Radial Direction:	S 85°12'01.5395" E		
Chord Direction:	N 14°57'20.7269" E		
Radial Direction:	S 64°53'17.0066" E		
Tangent Direction:	N 25°06'42.9934" E		

CIRCULAR CURVE ⑥

	STATION	NORTHING	EASTING
PC (3002)	300+51.19	639254.9048	602318.0222
PI (3018)	303+72.01	639518.8318	602500.4120
CC (3003)		637265.0958	605197.3728
PT (3004)	306+91.04	639745.2029	602727.7435
Radius:	3500.0000		
Delta:	10°28'27.9135" Right		
Degree of Curvature(Arc):	1°38'13.2802"		
Length:	639.8459		
Tangent:	320.8170		
Chord:	638.9553		
Middle Ordinate:	14.6114		
External:	14.6726		
Tangent Direction:	N 34°38'48.7160" E		
Radial Direction:	S 55°21'11.2840" E		
Chord Direction:	N 39°53'02.6728" E		
Radial Direction:	S 44°52'43.3705" E		
Tangent Direction:	N 45°07'16.6295" E		

CONSTRUCTION ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
2001	200+00.00	0.00'	637904.4581	601965.1047
2002	200+41.02	0.00'	637897.7721	602005.5723
2010	212+75.00	0.00'	639100.1847	602228.7775
3001	300+00.00	0.00'	639212.7918	602288.9194

EXISTING R/W ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
1001	100+00.00	0.00	636691.4881	601769.0541

HORIZONTAL / VERTICAL CONTROL DATA

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP-6	130+22.83	72.92	639524.8673	602517.5383	165.23
TP-7	124+50.48	-59.77	639129.0920	602089.1915	167.81
TP-8	118+11.53	-55.23	638498.4139	601911.8764	156.22
TP-9	112+31.11	-68.81	637922.7083	601834.9905	157.10
TP-10	119+09.01	46.50	638581.0488	602026.1353	156.78
TP-11	125+12.72	53.27	639134.2048	602218.1678	166.72
TP-12	130+27.23	186.06	639450.8340	602603.1992	169.12
TP-13	133+32.61	123.39	639712.5762	602767.4536	169.69

NOTE: NEGATIVE OFFSET DENOTES LEFT OF BASELINE

DATUM REFERENCE:

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

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

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ADDENDA / REVISIONS

SCALE 0 120 240 360 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

HORIZONTAL AND VERTICAL CONTROL

HV-01

SECTION CEI

SHEET NO. 8

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EXISTING R/W ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
1008	153+00.00	0.00	641319.0764	603916.9565
1101	10+00.00	0.00	641305.4999	601561.8190
1102	21+24.26	0.00	640919.5171	602617.7441
1103	28+79.97	0.00	640660.0654	603327.5204
1104	33+87.18	0.00	640443.9485	603786.3836
1105	46+12.82	0.00	639871.7758	604870.2710

CONSTRUCTION ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
3002	319+50.00	0.00'	640375.9636	603721.9098
4001	400+00.00	0.00'	640528.0787	603452.1012
4002	413+00.00	0.00'	639955.0437	604540.6590

HORIZONTAL / VERTICAL CONTROL DATA

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP-1	145+91.94	1259.01	639995.5120	604543.9038	155.56
TP-2	146+22.72	615.34	640400.7521	604042.3502	185.65
TP-3	145+93.63	71.83	640690.6976	603581.5444	183.65
TP-4	140+58.31	48.66	640287.7478	603216.3595	180.27
TP-5	135+30.14	41.76	639911.5829	602845.4334	165.06
TP-14	137+51.59	223.09	639945.6522	603129.6166	173.02
TP-15	141+74.49	452.07	640103.8910	603596.1312	182.80
TP-16	142+33.55	900.87	639858.0600	603977.9736	172.97
TP-17	142+14.48	1321.73	639561.9113	604278.0125	155.73
TP-22	34+60.64	144.62	640281.7622	603783.8326	184.52

NOTE: NEGATIVE OFFSET DENOTES LEFT OF BASELINE

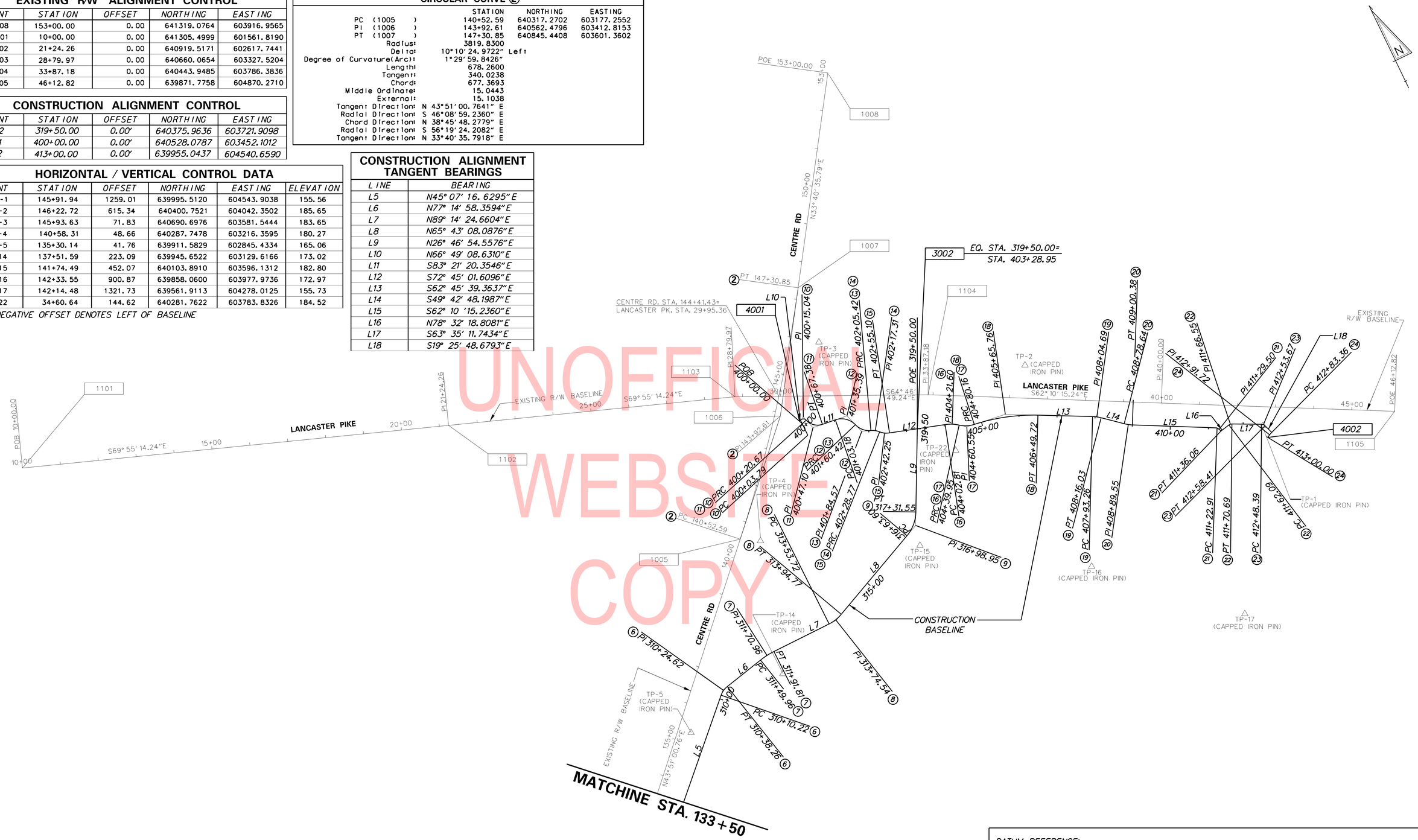
CIRCULAR CURVE ②

	STATION	NORTHING	EASTING
PC (1005)	140+52.59	640317.2702	603177.2552
PI (1006)	143+92.61	640562.4796	603412.8153
PT (1007)	147+30.85	640845.4408	603601.3602

Radius:	3819.8300
Delta:	10°10'24.9722" Left
Degree of Curvature(Arc):	1°29'59.8426"
Length:	678.2600
Tangent:	340.0238
Chord:	677.3693
Middle Ordinate:	15.0443
External:	15.1038
Tangent Direction:	N 43°51'00.7641" E
Radial Direction:	S 46°08'59.2360" E
Chord Direction:	N 38°45'48.2779" E
Radial Direction:	S 56°19'24.2082" E
Tangent Direction:	N 33°40'35.7918" E

CONSTRUCTION ALIGNMENT TANGENT BEARINGS

LINE	BEARING
L5	N45° 07' 16.6295" E
L6	N77° 14' 58.3594" E
L7	N89° 14' 24.6604" E
L8	N65° 43' 08.0876" E
L9	N26° 46' 54.5576" E
L10	N66° 49' 08.6310" E
L11	S83° 21' 20.3546" E
L12	S72° 45' 01.6096" E
L13	S62° 45' 39.3637" E
L14	S49° 42' 48.1987" E
L15	S62° 10 '15.2360" E
L16	N78° 32' 18.8081" E
L17	S63° 35' 11.7434" E
L18	S19° 25' 48.6793" E



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DATUM REFERENCE:

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

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

ADDENDA / REVISIONS

SCALE 0 120 240 360 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

HORIZONTAL AND VERTICAL CONTROL

HV-02

SECTION: CEI

SHEET NO. 9

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CIRCULAR CURVE (6)

	STATION	NORTHING	EASTING
PC ( )	310+10.22	639969.8666	602955.7128
PI ( )	310+24.62	639980.0258	602965.9151
CC ( )		639934.4365	602990.9932
PT ( )	310+38.26	639983.2035	602979.9579

Radius:	50.0000
Delta:	32°07'41.7299" Right
Degree of Curvature(Arc):	114°35'29.6125"
Length:	28.0372
Tangent:	14.3979
Chord:	27.6713
Middle Ordinate:	1.9524
External:	2.0317
Tangent Direction:	N 45°07'16.6295" E
Radial Direction:	S 44°52'43.3705" E
Chord Direction:	N 61°11'07.4945" E
Radial Direction:	S 12°45'01.6406" E
Tangent Direction:	N 77°14'58.3594" E

CIRCULAR CURVE (7)

	STATION	NORTHING	EASTING
PC ( )	311+49.96	640007.8555	603088.9001
PI ( )	311+70.96	640012.4913	603109.3865
CC ( )		639812.7874	603133.0412
PT ( )	311+91.81	640012.7698	603130.3890

Radius:	200.0000
Delta:	11°59'26.3010" Right
Degree of Curvature(Arc):	28°38'52.4031"
Length:	41.8552
Tangent:	21.0043
Chord:	41.7789
Middle Ordinate:	1.0939
External:	1.0999
Tangent Direction:	N 77°14'58.3594" E
Radial Direction:	S 12°45'01.6406" E
Chord Direction:	N 83°14'41.5099" E
Radial Direction:	S 0°45'35.3396" E
Tangent Direction:	N 89°14'24.6604" E

CIRCULAR CURVE (8)

	STATION	NORTHING	EASTING
PC ( )	313+53.72	640014.9168	603292.2809
PI ( )	313+74.54	640015.1929	603313.0985
CC ( )		640114.9080	603290.9548
PT ( )	313+94.77	640023.7541	603332.0762

Radius:	100.0000
Delta:	23°31'16.5728" Left
Degree of Curvature(Arc):	57°17'44.8062"
Length:	41.0524
Tangent:	20.8194
Chord:	40.7647
Middle Ordinate:	2.0992
External:	2.1442
Tangent Direction:	N 89°14'24.6604" E
Radial Direction:	S 0°45'35.3396" E
Chord Direction:	N 77°28'46.3740" E
Radial Direction:	S 24°16'51.9124" E
Tangent Direction:	N 65°43'08.0876" E

CIRCULAR CURVE (9)

	STATION	NORTHING	EASTING
PC ( )	316+63.60	640134.2985	603577.1206
PI ( )	316+98.95	640148.8350	603609.3436
CC ( )		640225.4524	603535.9992
PT ( )	317+31.55	640180.3930	603625.2721

Radius:	100.0000
Delta:	38°56'13.5300" Left
Degree of Curvature(Arc):	57°17'44.8062"
Length:	67.9580
Tangent:	35.3501
Chord:	66.6579
Middle Ordinate:	5.7175
External:	6.0643
Tangent Direction:	N 65°43'08.0876" E
Radial Direction:	S 24°16'51.9124" E
Chord Direction:	N 46°15'01.3226" E
Radial Direction:	S 63°13'05.4424" E
Tangent Direction:	N 26°46'54.5576" E

CIRCULAR CURVE (10)

	STATION	NORTHING	EASTING
PC ( )	400+03.79	640529.5690	603455.5815
PI ( )	400+15.04	640533.9971	603465.9226
CC ( )		640520.3764	603459.5179
PRC ( )	400+20.67	640523.2084	603469.1085

Radius:	10.0000
Delta:	96°43'45.3090" Right
Degree of Curvature(Arc):	572°57'28.0625"
Length:	16.8824
Tangent:	11.2493
Chord:	14.9478
Middle Ordinate:	3.3561
External:	5.0515
Tangent Direction:	N 66°49'08.6310" E
Radial Direction:	S 23°10'51.3690" E
Chord Direction:	S 64°48'58.7145" E
Radial Direction:	S 73°32'53.9400" W
Tangent Direction:	S 16°27'06.0600" E

CIRCULAR CURVE (11)

	STATION	NORTHING	EASTING
PRC ( )	400+20.67	640523.2084	603469.1085
PI ( )	400+47.10	640497.8631	603476.5929
CC ( )		640534.5367	603507.4708
PT ( )	400+67.38	640494.8053	603502.8426

Radius:	40.0000
Delta:	66°54'14.2946" Left
Degree of Curvature(Arc):	143°14'22.0156"
Length:	46.7078
Tangent:	26.4272
Chord:	44.0990
Middle Ordinate:	6.6261
External:	7.9416
Tangent Direction:	S 16°27'06.0600" E
Radial Direction:	S 73°32'53.9400" W
Chord Direction:	S 49°54'13.2073" E
Radial Direction:	S 6°38'39.6454" W
Tangent Direction:	S 83°21'20.3546" E

CIRCULAR CURVE (12)

	STATION	NORTHING	EASTING
PC ( )	401+03.18	640490.6625	603538.4069
PI ( )	401+35.39	640486.9352	603570.4043
CC ( )		640440.9983	603532.6216
PRC ( )	401+60.42	640456.2584	603580.2360

Radius:	50.0000
Delta:	65°35'07.3155" Right
Degree of Curvature(Arc):	114°35'29.6125"
Length:	57.2340
Tangent:	32.2138
Chord:	54.1601
Middle Ordinate:	7.9682
External:	9.4788
Tangent Direction:	S 83°21'20.3546" E
Radial Direction:	S 6°38'39.6454" W
Chord Direction:	S 50°33'46.6968" E
Radial Direction:	S 72°13'46.9609" W
Tangent Direction:	S 17°46'13.0391" E

CIRCULAR CURVE (13)

	STATION	NORTHING	EASTING
PRC ( )	401+60.42	640456.2584	603580.2360
PI ( )	401+84.57	640433.2544	603587.6086
CC ( )		640471.5185	603627.8504
PRC ( )	402+05.42	640424.7328	603610.2123

Radius:	50.0000
Delta:	51°34'24.2262" Left
Degree of Curvature(Arc):	114°35'29.6125"
Length:	45.0063
Tangent:	24.1566
Chord:	43.5022
Middle Ordinate:	4.9790
External:	5.5297
Tangent Direction:	S 17°46'13.0391" E
Radial Direction:	S 72°13'46.9609" W
Chord Direction:	S 43°33'25.1522" E
Radial Direction:	S 20°39'22.7347" W
Tangent Direction:	S 69°20'37.2653" E

CIRCULAR CURVE (14)

	STATION	NORTHING	EASTING
PRC ( )	402+05.42	640424.7328	603610.2123
PI ( )	402+17.31	640420.5376	603621.3403
CC ( )		640377.9472	603592.5742
PRC ( )	402+28.77	640411.7815	603629.3878

Radius:	50.0000
Delta:	26°45'30.0672" Right
Degree of Curvature(Arc):	114°35'29.6125"
Length:	23.3511
Tangent:	11.8925
Chord:	23.1394
Middle Ordinate:	1.3570
External:	1.3949
Tangent Direction:	S 69°20'37.2653" E
Radial Direction:	S 20°39'22.7347" W
Chord Direction:	S 55°57'52.2317" E
Radial Direction:	S 47°24'52.8019" W
Tangent Direction:	S 42°35'07.1981" E

CIRCULAR CURVE (15)

	STATION	NORTHING	EASTING
PRC ( )	402+28.77	640411.7815	603629.3878
PI ( )	402+42.25	640401.8605	603638.5059
CC ( )		640445.6159	603666.2013
PT ( )	402+55.10	640397.8648	603651.3746

Radius:	50.0000
Delta:	30°09'54.4114" Left
Degree of Curvature(Arc):	114°35'29.6125"
Length:	26.3240
Tangent:	13.4747
Chord:	26.0211
Middle Ordinate:	1.7224
External:	1.7839
Tangent Direction:	S 42°35'07.1981" E
Radial Direction:	S 47°24'52.8019" W
Chord Direction:	S 57°40'04.4038" E
Radial Direction:	S 17°14'58.3904" W
Tangent Direction:	S 72°45'01.6096" E

CIRCULAR CURVE (16)

	STATION	NORTHING	EASTING
PC ( )	404+02.81	640354.0625	603792.4450
PI ( )	404+21.60	640348.4920	603810.3852
CC ( )		640258.5603	603762.7916
PRC ( )	404+39.95	640336.7909	603825.0810

Radius:	100.0000
Delta:	21°16'41.7023" Right
Degree of Curvature(Arc):	57°17'44.8062"
Length:	37.1376
Tangent:	18.7852
Chord:	36.9245
Middle Ordinate:	1.7190
External:	1.7491
Tangent Direction:	S 72°45'01.6096" E
Radial Direction:	S 17°14'58.3904" W
Chord Direction:	S 62°06'40.7584" E
Radial Direction:	S 38°31'40.0928" W
Tangent Direction:	S 51°28'19.9072" E

CIRCULAR CURVE (17)

	STATION	NORTHING	EASTING
PRC ( )	404+39.95	640336.7909	603825.0810
PI ( )	404+60.55	640323.9583	603841.1977
CC ( )		640395.4638	603871.7981
PRC ( )	404+80.16	640321.1592	603861.6083

Radius:	75.0000
Delta:	30°43'09.1522" Left
Degree of Curvature(Arc):	76°23'39.7417"
Length:	40.2114
Tangent:	20.6016
Chord:	39.7314
Middle Ordinate:	2.6788
External:	2.7780
Tangent Direction:	S 51°28'19.9072" E
Radial Direction:	S 38°31'40.0928" W
Chord Direction:	S 66°49'54.4834" E
Radial Direction:	S 7°48'30.9405" W
Tangent Direction:	S 82°11'29.0595" E

CIRCULAR CURVE (18)

	STATION	NORTHING	EASTING
PRC ( )	404+80.16	640321.1592	603861.6083
PI ( )	405+65.76	640309.5288	603946.4179
CC ( )		639825.7955	603793.6762
PT ( )	406+49.72	640270.3478	604022.5283

Radius:	500.0000
Delta:	19°25'49.6958" Right
Degree of Curvature(Arc):	11°27'32.9612"
Length:	169.5628
Tangent:	85.6034
Chord:	168.7515
Middle Ordinate:	7.1707
External:	7.2750
Tangent Direction:	S 82°11'29.0595" E
Radial Direction:	S 7°48'30.9405" W
Chord Direction:	S 72°28'34.2116" E
Radial Direction:	S 27°14'20.6363" W
Tangent Direction:	S 62°45'39.3637" E

CIRCULAR CURVE (19)

	STATION	NORTHING	EASTING
PC ( )	407+93.26	640204.6505	604150.1472
PI ( )	408+04.69	640199.4164	604160.3146
CC ( )		640115.7401	604104.3768
PT ( )	408+16.03	640192.0220	604169.0379

Radius:	100.0000
Delta:	13°02'51.1650" Right
Degree of Curvature(Arc):	57°17'44.8062"
Length:	22.7723
Tangent:	11.4356
Chord:	22.7231
Middle Ordinate:	0.6475
External:	0.6517
Tangent Direction:	S 62°45'39.3637" E
Radial Direction:	S 27°14'20.6363" W
Chord Direction:	S 56°14'13.7812" E
Radial Direction:	S 40°17'11.8013" W
Tangent Direction:	S 49°42'48.1987" E

CIRCULAR CURVE (20)

	STATION	NORTHING	EASTING
PC ( )	408+78.64	640151.5406	604216.7946
PI ( )	408+89.55	640144.4833	604225.1202
CC ( )		640227.8225	604281.4558
PT ( )	409+00.38	640139.3881	604234.7722

Radius:	100.0000
Delta:	12°27'27.0373" Left
Degree of Curvature(Arc):	57°17'44.8062"
Length:	21.7425
Tangent:	10.9143
Chord:	21.6997
Middle Ordinate:	0.5903
External:	0.5938
Tangent Direction:	S 49°42'48.1987" E
Radial Direction:	S 40°17'11.8013" W
Chord Direction:	S 55°56'31.7174" E
Radial Direction:	S 27°49'44.7640" W
Tangent Direction:	S 62°10'15.2360" E

CIRCULAR CURVE (21)

	STATION	NORTHING	EASTING
PC ( )	411+22.91	640035.5037	604431.5642
PI ( )	411+29.50	640029.8691	604434.9871
CC ( )		639999.0310	604371.5242
PT ( )	411+36.06	640023.6959	604437.3018

Radius:	70.2500
Delta:	10°43'22.1933" Right
Degree of Curvature(Arc):	81°33'35.5080"
Length:	13.1472
Tangent:	6.5928
Chord:	13.1280
Middle Ordinate:	0.3073
External:	0.3087
Tangent Direction:	S 31°16'39.2537" E
Radial Direction:	S 58°43'20.7463" W
Chord Direction:	S 25°54'58.1571" E
Radial Direction:	S 69°26'42.9395" W
Tangent Direction:	S 20°33'17.0605" E

CIRCULAR CURVE (22)

	STATION	NORTHING	EASTING
PC ( )	411+62.09	640028.8701	604462.8215
PI ( )	411+66.55	640029.7563	604467.1926
CC ( )		640016.1293	604465.4047
PT ( )	411+70.69	640027.7725	604471.1871

Radius:	13.0000
Delta:	37°52'20.2681" Right
Degree of Curvature(Arc):	440°44'12.3558"
Length:	8.5930
Tangent:	4.4601
Chord:	8.4374
Middle Ordinate:	0.7035
External:	0.7438
Tangent Direction:	N 78°32'18.8081" E
Radial Direction:	S 11°27'41.1919" E
Chord Direction:	S 82°31'31.0579" E
Radial Direction:	S 26°24'39.0762" W
Tangent Direction:	S 63°35'20.9238" E

CIRCULAR CURVE (23)

	STATION	NORTHING	EASTING
PC ( )	412+48.39	639993.2055	604540.7810
PI ( )	412+53.67	639990.8601	604545.5055
CC ( )		639981.5613	604535.0006
PT ( )	412+58.41	639985.8859	604547.2602

Radius:	13.0000
Delta:	44°10'08.9266" Right
Degree of Curvature(Arc):	440°44'12.3558"
Length:	10.0217
Tangent:	5.2747
Chord:	9.7753
Middle Ordinate:	0.9538
External:	1.0293
Tangent Direction:	S 63°35'57.6059" E
Radial Direction:	S 26°24'02.3941" W
Chord Direction:	S 41°30'53.1426" E
Radial Direction:	S 70°34'11.3207" W
Tangent Direction:	S 19°25'48.6793" E

CIRCULAR CURVE (24)

	STATION	NORTHING	EASTING
PC ( )	412+83.36	639962.3584	604555.5595
PI ( )	412+91.72	639959.5811	604547.6772
CC ( )		639895.6294	604579.0713
PT ( )	413+00.00	639955.0437	604540.6590

Radius:	70.7500
Delta:	13°28'24.7095" Left
Degree of Curvature(Arc):	80°59'00.3622"
Length:	16.6374
Tangent:	8.3572
Chord:	16.5991
Middle Ordinate:	0.4885
External:	0.4919
Tangent Direction:	S 70°35'24.6319" W
Radial Direction:	N 19°24'35.3681" W
Chord Direction:	S 63°51'12.2772" W
Radial Direction:	N 32°53'00.0776" W
Tangent Direction:	S 57°06'59.9224" W

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DATUM REFERENCE:

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

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

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	IPCC CURB, TYPE 2	12′
2	PCC CURB, TYPE 2	128′
3	PCC CURB, TYPE 2	88′

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
1	200+19.87	13.3′ RT	34″ x 24″	I	154.50′	152.50′

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	15″ RCP	IV	28′	1.8%	152.50′	152.00′

RIPRAP SCHEDULE

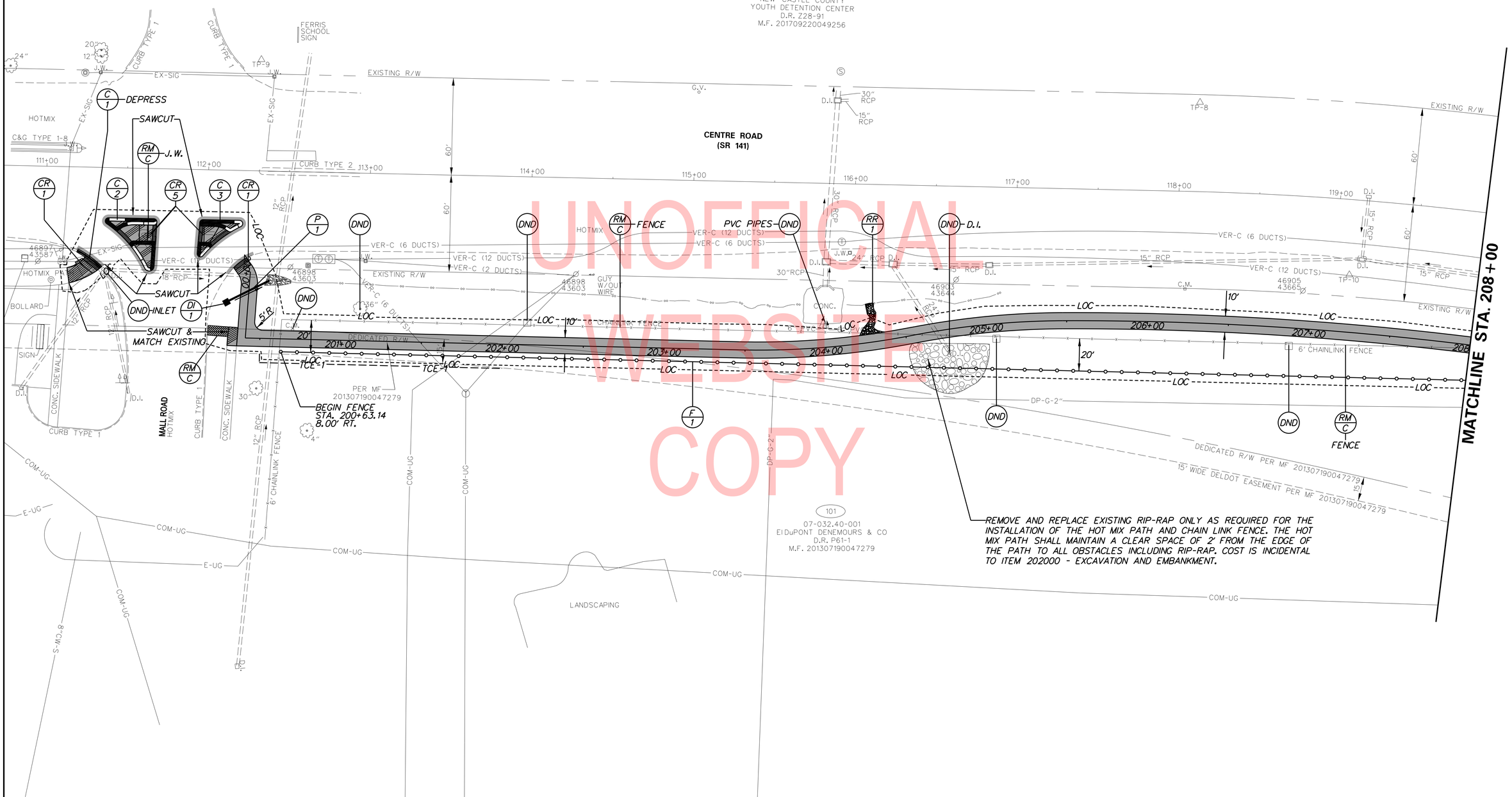
NO.	SIZE / TYPE	AREA (SY)
1*	R-4	13

* CONTRACTOR SHALL FILL ERODED CHANNEL WITH RIPRAP

FENCE SCHEDULE

NO.	QTY.	DESCRIPTION	NOTES
1	840′	CHAIN LINK FENCE, 6 FT. HIGH (ITEM 727000)	STA. 200+63, 8′ RT. TO STA. 209+06, 8′ RT. (+/-)

NOTE: INCLUDES BARBED WIRE AND TERMINAL POSTS, INCIDENTAL TO ITEM 727000.



REMOVE AND REPLACE EXISTING RIP-RAP ONLY AS REQUIRED FOR THE INSTALLATION OF THE HOT MIX PATH AND CHAIN LINK FENCE. THE HOT MIX PATH SHALL MAINTAIN A CLEAR SPACE OF 2′ FROM THE EDGE OF THE PATH TO ALL OBSTACLES INCLUDING RIP-RAP. COST IS INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.

UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

CONSTRUCTION PLAN

CP-01

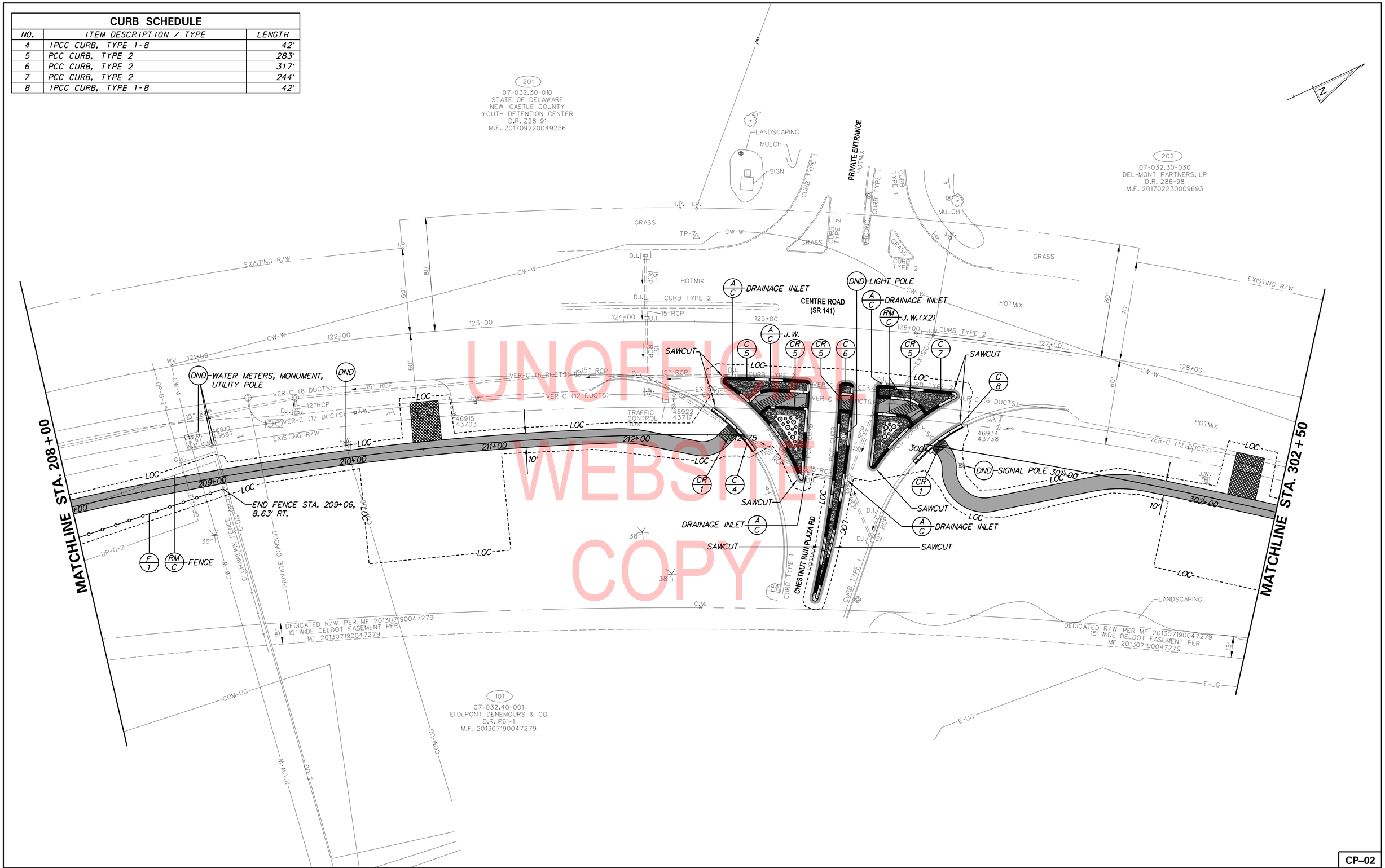
SECTION: CEI

SHEET NO. 11

6/3/2019
10:19:05 C:\PWWORKING\CTS\155002.00 (DelDOT Agmt. 1730 TAP)\155002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\cp01_crp.dgn
3:36:35 PM

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
4	IPCC CURB, TYPE 1-8	42'
5	PCC CURB, TYPE 2	283'
6	PCC CURB, TYPE 2	317'
7	PCC CURB, TYPE 2	244'
8	IPCC CURB, TYPE 1-8	42'



UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

CONSTRUCTION PLAN

CP-02

SECTION: CEI

SHEET NO. 12

6/7/2019
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3:36:56 PM

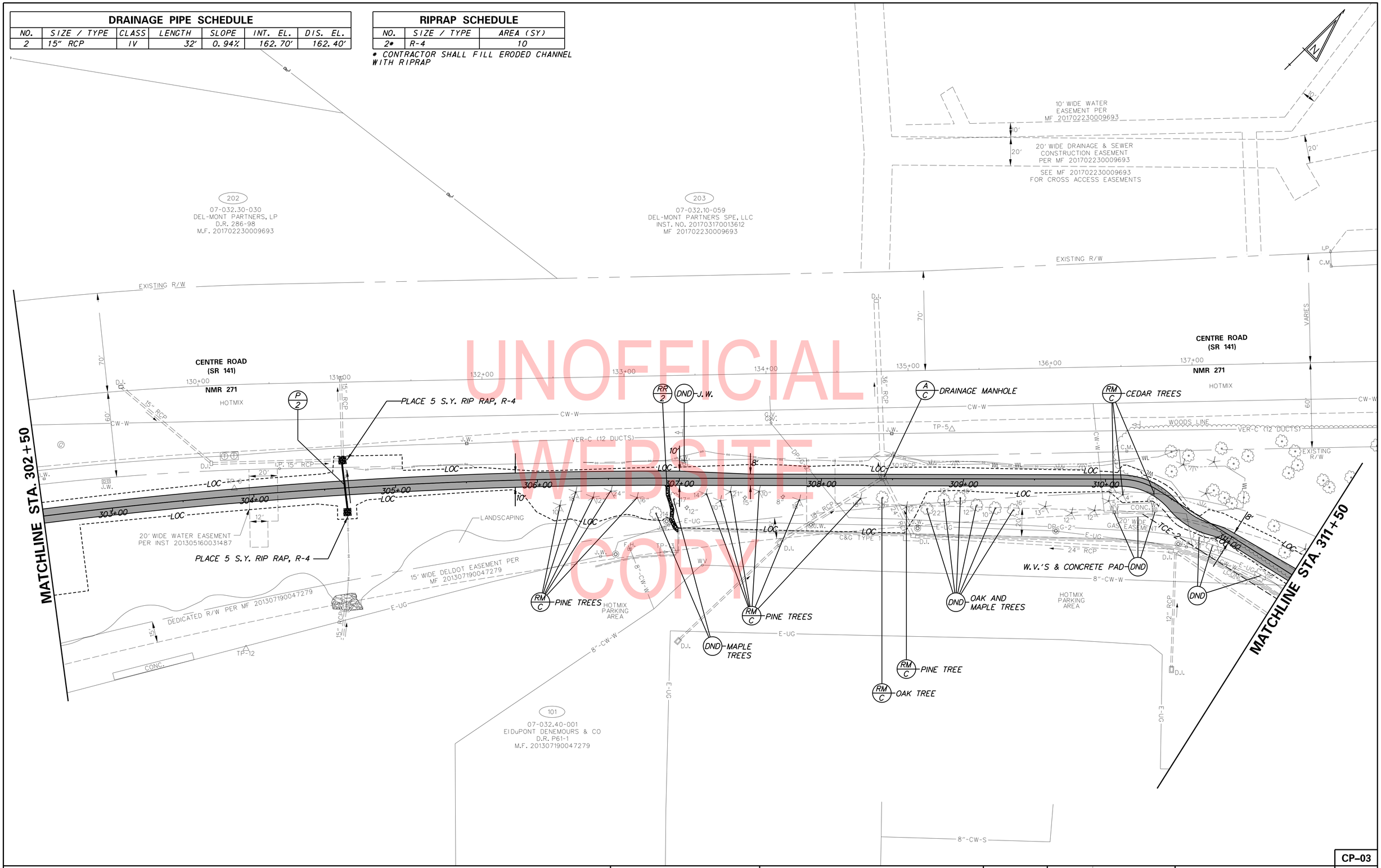
DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
2	15" RCP	IV	32'	0.94%	162.70'	162.40'

RIPRAP SCHEDULE

NO.	SIZE / TYPE	AREA (SY)
2*	R-4	10

* CONTRACTOR SHALL FILL ERODED CHANNEL WITH RIPRAP



UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS	

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY	CHECKED BY: WFC	
NEW CASTLE		

CONSTRUCTION PLAN

CP-03
SECTION
CEI
SHEET NO.
13

6/13/2019
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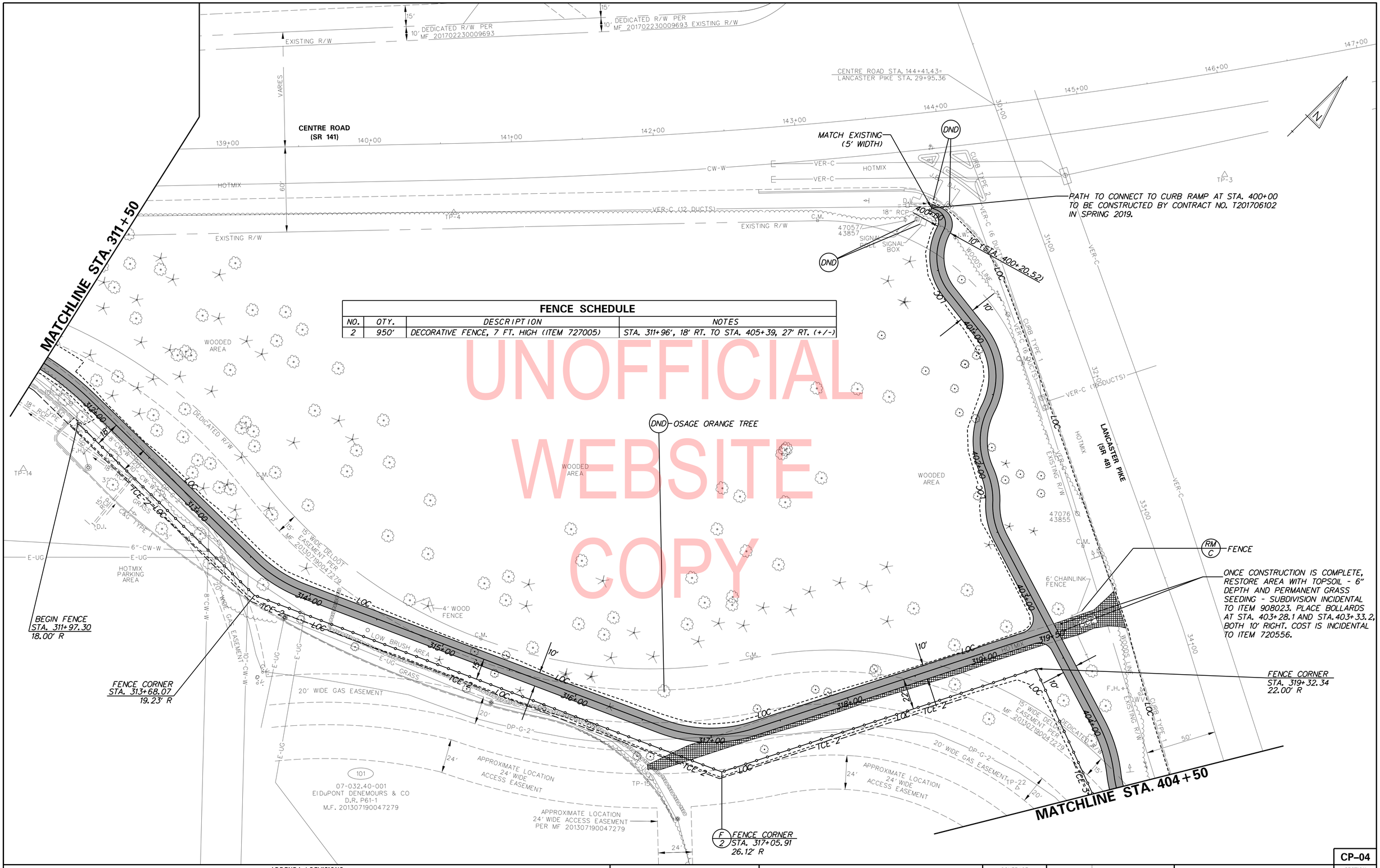


FENCE SCHEDULE

NO.	QTY.	DESCRIPTION	NOTES
2	950'	DECORATIVE FENCE, 7 FT. HIGH (ITEM 727005)	STA. 311+96', 18' RT. TO STA. 405+39, 27' RT. (+/-)

UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY	CHECKED BY: WFC	
NEW CASTLE		

CONSTRUCTION PLAN

CP-04

SECTION: CEI

SHEET NO. 14

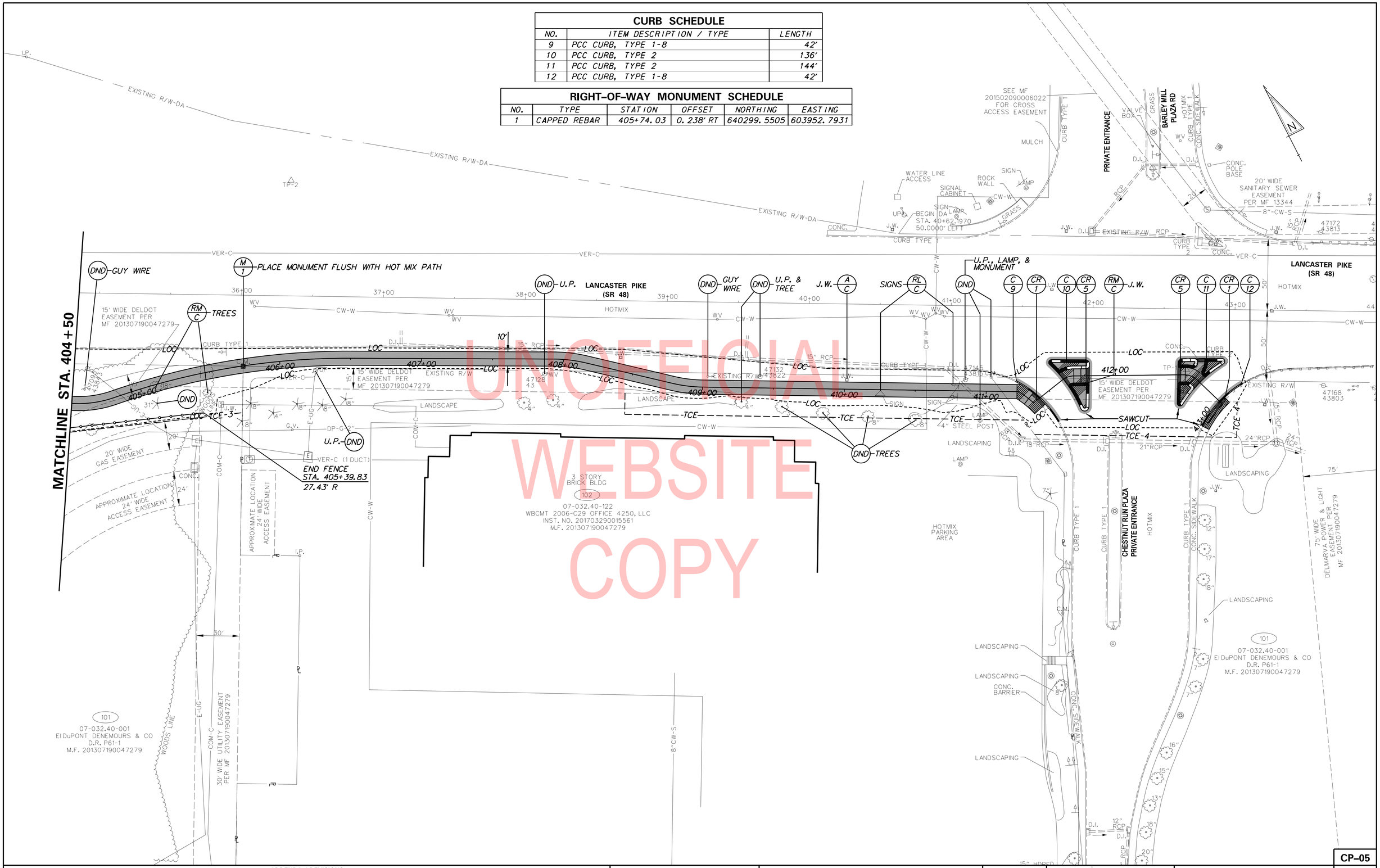
6/3/2019
CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS\155002.00 (DelDOT Agmt. 1730 TAP)\155002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\cp04_crp.dgn
3:36:39 PM

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
9	PCC CURB, TYPE 1-8	42'
10	PCC CURB, TYPE 2	136'
11	PCC CURB, TYPE 2	144'
12	PCC CURB, TYPE 1-8	42'

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
1	CAPPED REBAR	405+74.03	0.238' RT	640299.5505	603952.7931



ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

CONSTRUCTION PLAN

CP-05

SECTION: CEI

SHEET NO. 15

6/3/2019
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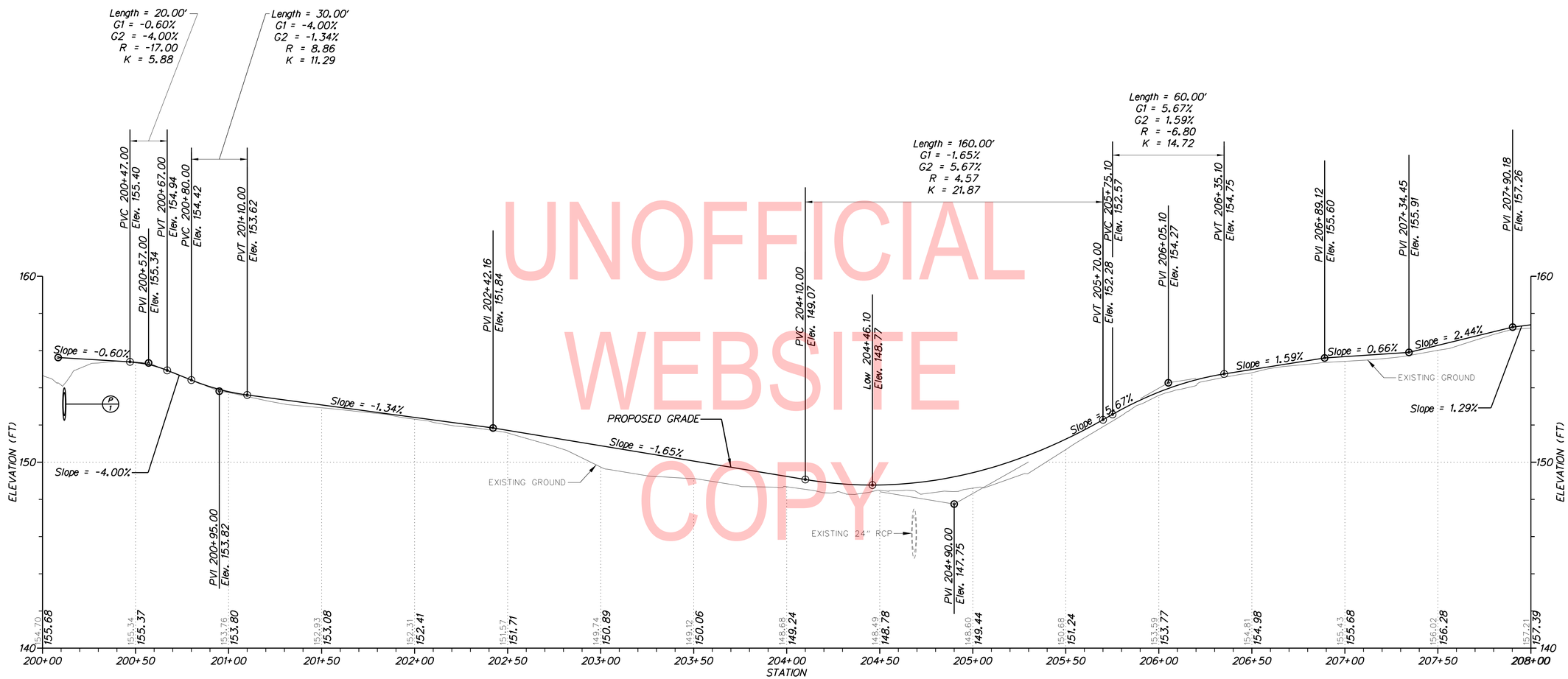


UNOFFICIAL WEBSITE COPY

PEDESTRIAN PATH (SR 141)

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

VERTICAL SCALE FEET 9 6 3 0

PF-01

ADDENDA / REVISIONS	

SCALE 0 30 60 90 FEET

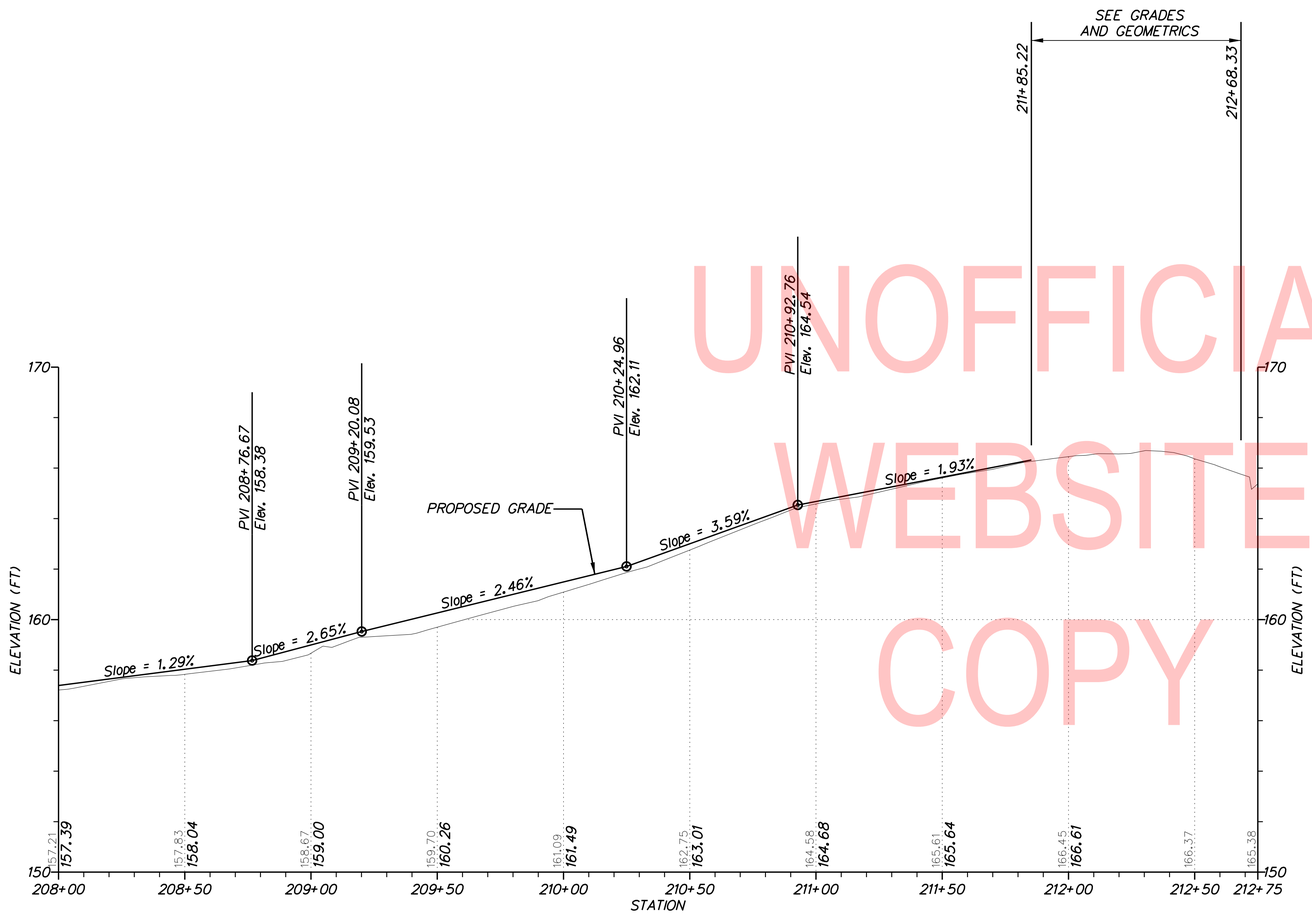
CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

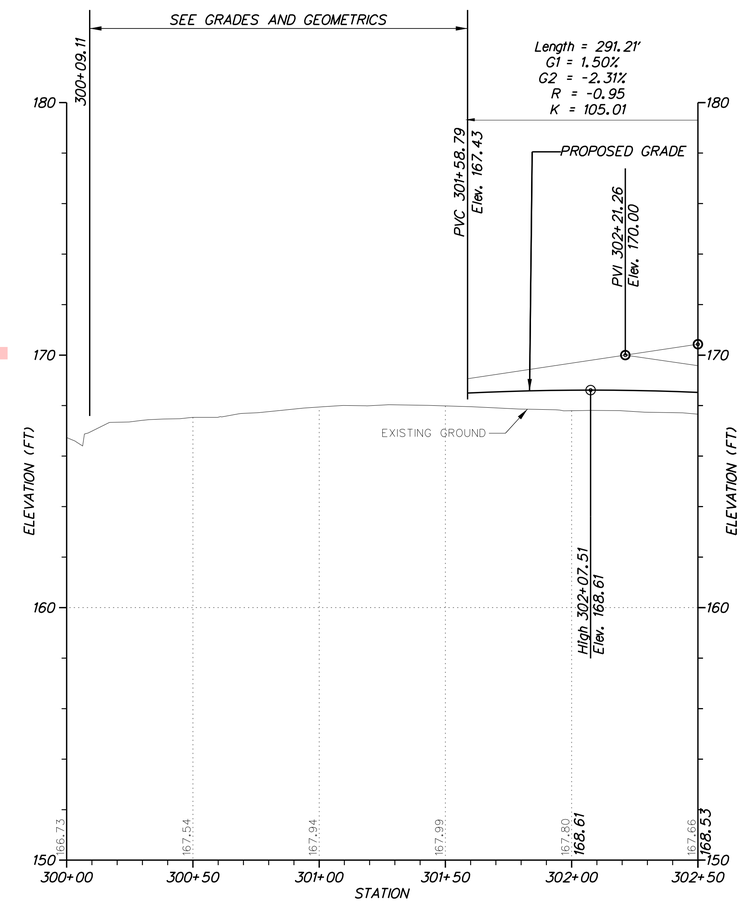
PROFILES

SECTION
CEI
SHEET NO.
16

6/3/2019 3:36:42 PM V:\WORKFILE\Snap\PROJECTS\155002.00 (DelDOT Agmt. 1730 TAP)\155002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\pf00_crp.dgn



PEDESTRIAN PATH (SR 141)



PEDESTRIAN PATH (SR 141)

UNOFFICIAL WEBSITE COPY

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

VERTICAL SCALE FEET 0 3 6 9

PF-02

ADDENDA / REVISIONS	SCALE 0 30 60 90 FEET	CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS	CONTRACT T201801102	BRIDGE NO. N/A	PROFILES	SECTION CEI
			COUNTY NEW CASTLE	DESIGNED BY: TMB		SHEET NO. 17
				CHECKED BY: WFC		

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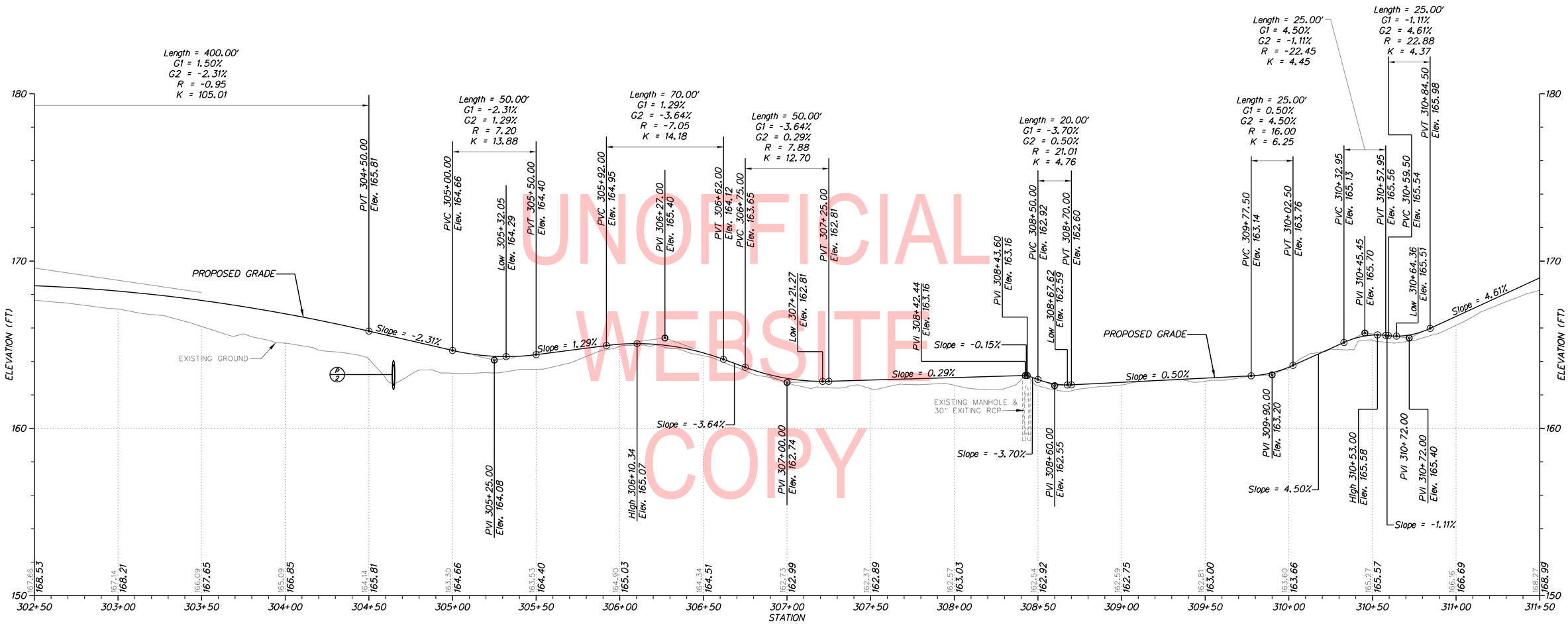

UNOFFICIAL WEBSITE COPY

PEDESTRIAN PATH (SR 141)

VERTICAL SCALE FEET 0 3 6 9

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

PF-03

ADDENDA / REVISIONS	

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

PROFILES

SECTION
CEI
SHEET NO.
18

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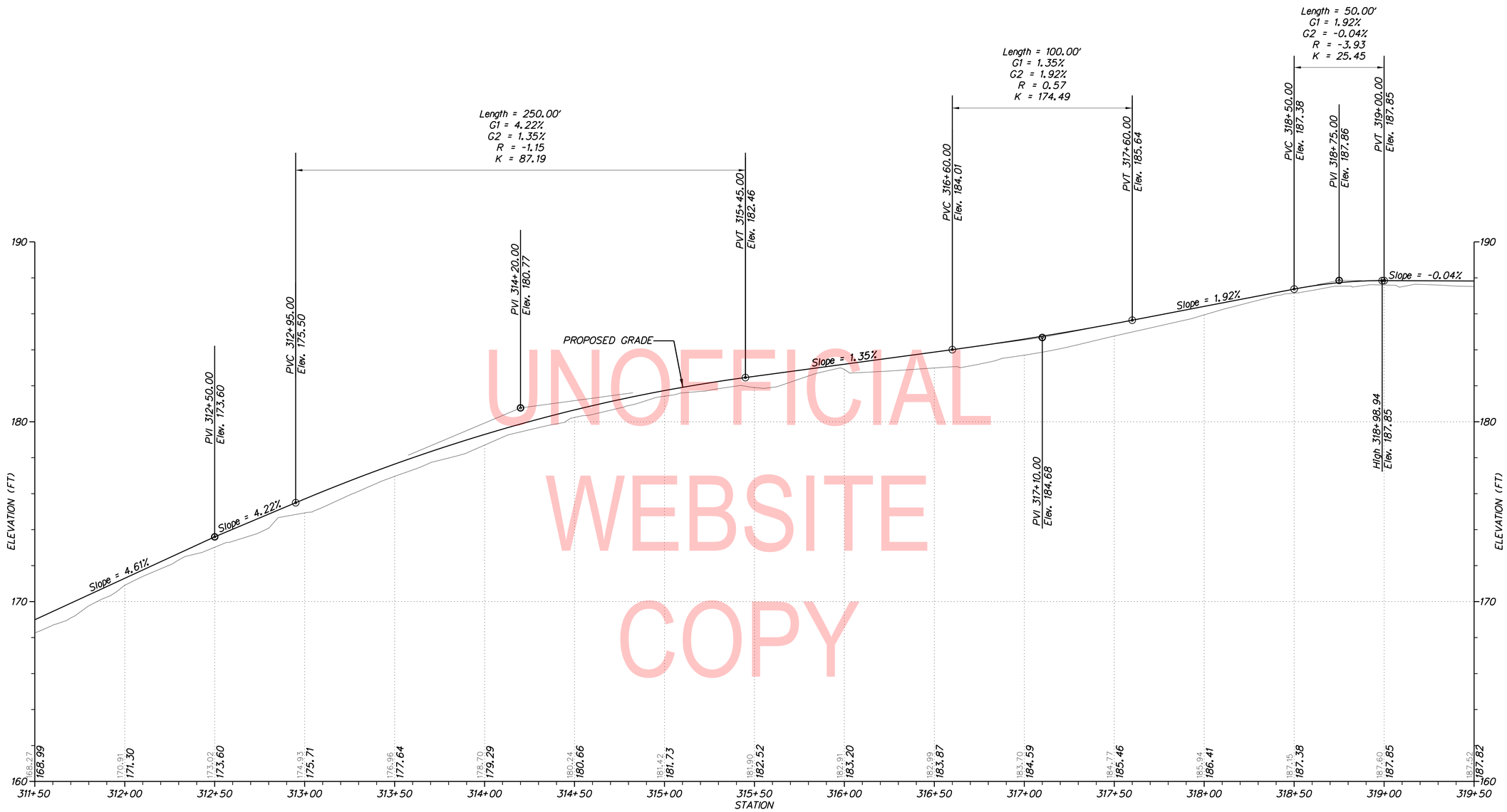

UNOFFICIAL WEBSITE COPY

PEDESTRIAN PATH (SR 141)

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

VERTICAL SCALE FEET 0 3 6 9

PF-04

ADDENDA / REVISIONS	

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

PROFILES

SECTION
CEI
SHEET NO.
19

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PEDESTRIAN PATH (SR 48)

UNOFFICIAL WEBSITE COPY

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

VERTICAL SCALE FEET 0 3 6 9

PF-05

ADDENDA / REVISIONS	

SCALE 0 30 60 90 FEET

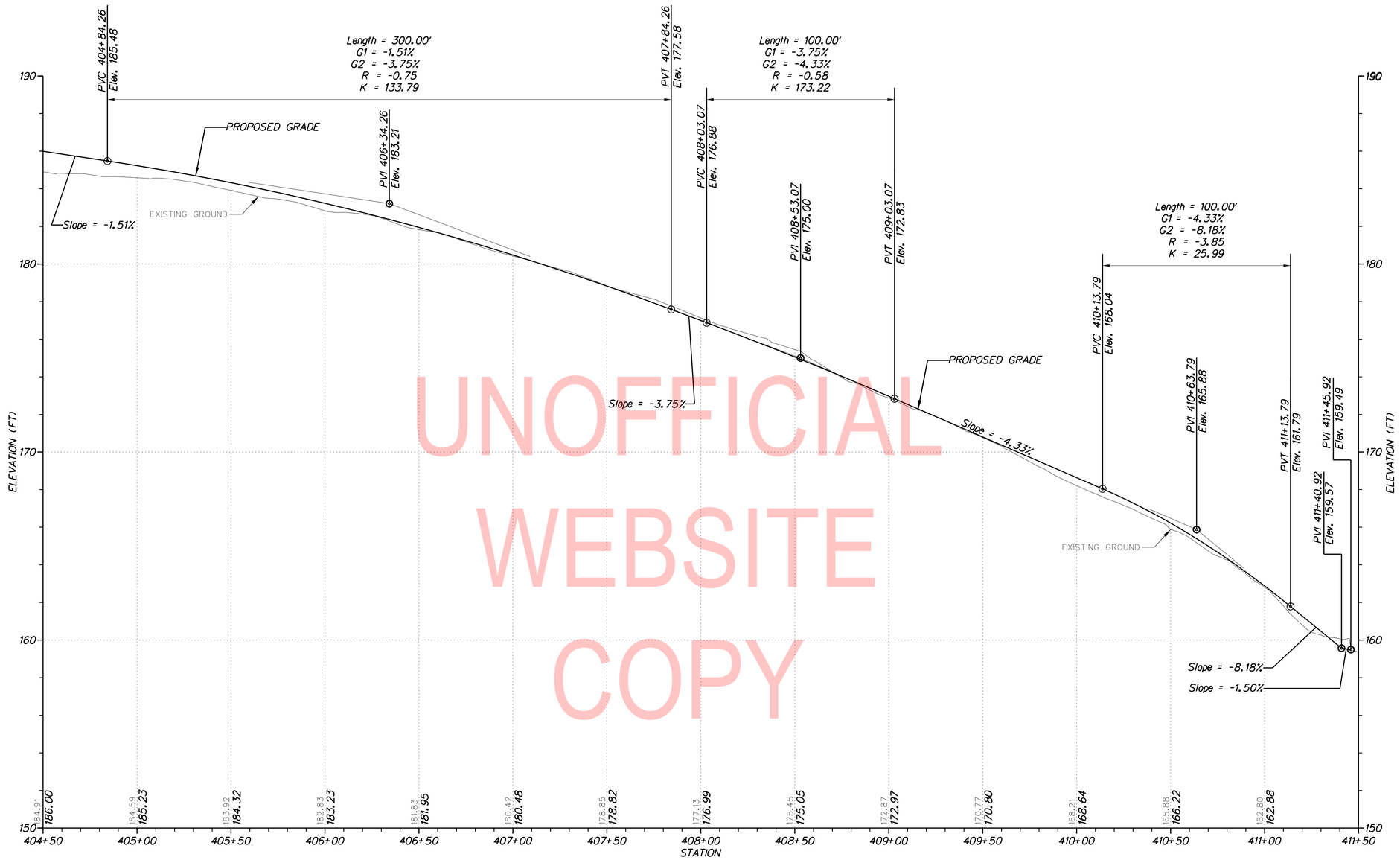
CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY	CHECKED BY: WFC	
NEW CASTLE		

PROFILES

SECTION
CEI
SHEET NO.
20

6/3/2019 3:36:43 PM \\DOT\FILES\Snap\PROJECTS\155002.00 (DelDOT Agmt. 1730 TAP)\155002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\pf00_crp.dgn



PEDESTRIAN PATH (SR 48)

UNOFFICIAL WEBSITE COPY

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

VERTICAL SCALE FEET 0 3 6 9

PF-06

ADDENDA / REVISIONS	

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

PROFILES

SECTION
CEI
SHEET NO.
21

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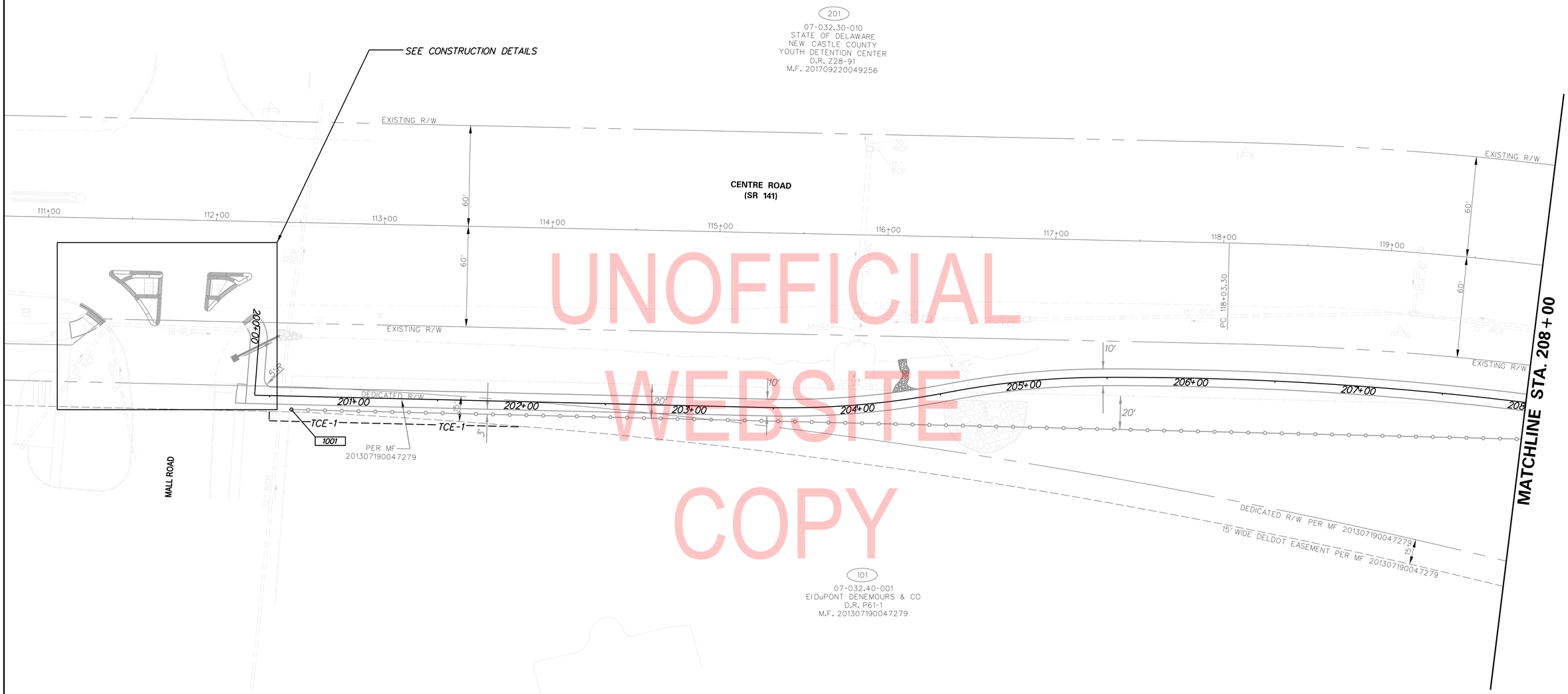
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
1001	200+63.14	8.00' RT.	637918.8648	602015.9797



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ADDENDA / REVISIONS	

SCALE
0 30 60 90
FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

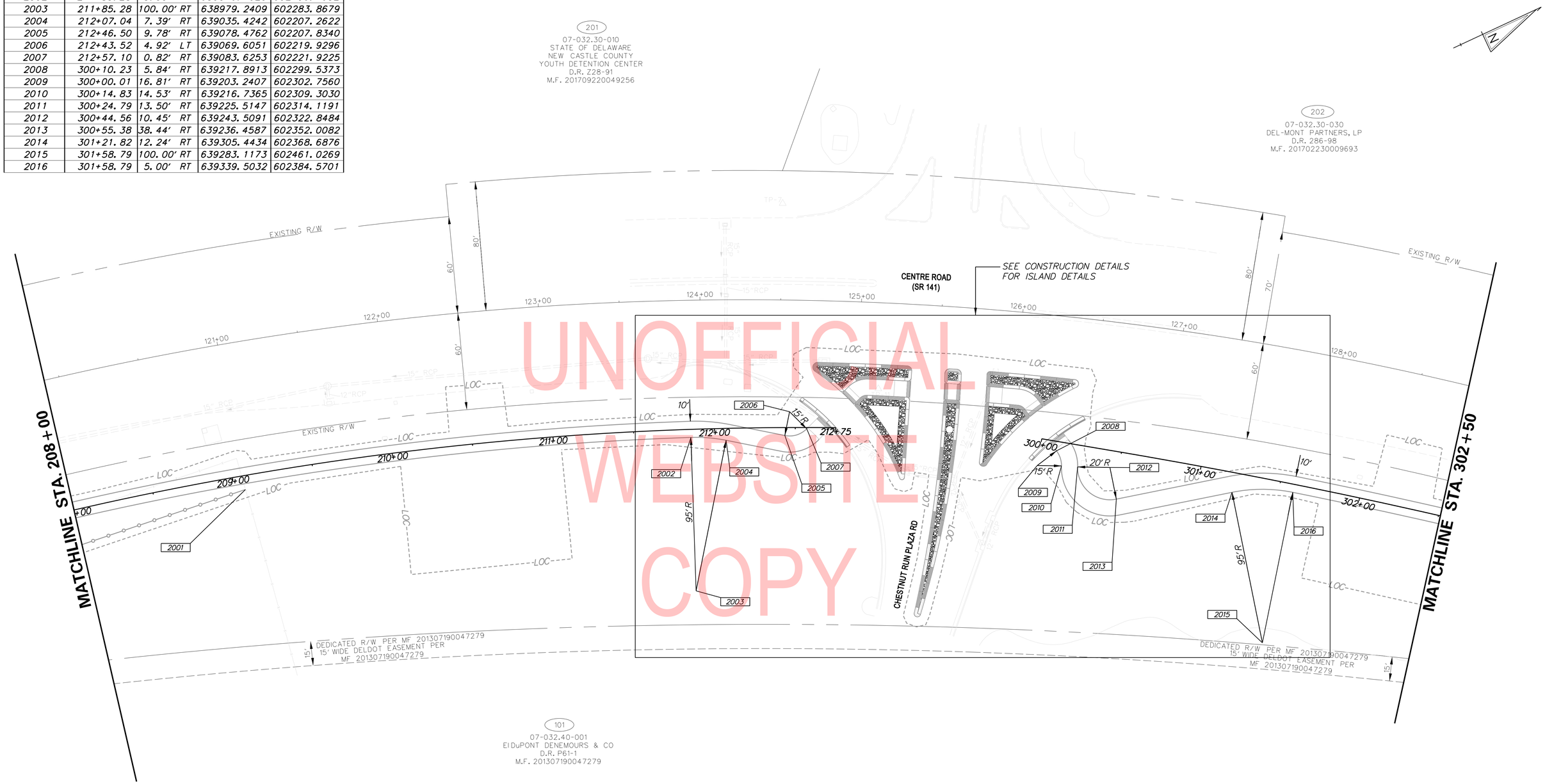
CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

GRADES AND GEOMETRICS

GG-01
SECTION
CEI
SHEET NO.
22

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
2001	209+06.72	8.63' RT	638753.1214	602109.2200
2002	211+85.28	5.00' RT	639016.4620	602196.4632
2003	211+85.28	100.00' RT	638979.2409	602283.8679
2004	212+07.04	7.39' RT	639035.4242	602207.2622
2005	212+46.50	9.78' RT	639078.4762	602207.8340
2006	212+43.52	4.92' LT	639069.6051	602219.9296
2007	212+57.10	0.82' RT	639083.6253	602221.9225
2008	300+10.23	5.84' RT	639217.8913	602299.5373
2009	300+00.01	16.81' RT	639203.2407	602302.7560
2010	300+14.83	14.53' RT	639216.7365	602309.3030
2011	300+24.79	13.50' RT	639225.5147	602314.1191
2012	300+44.56	10.45' RT	639243.5091	602322.8484
2013	300+55.38	38.44' RT	639236.4587	602352.0082
2014	301+21.82	12.24' RT	639305.4434	602368.6876
2015	301+58.79	100.00' RT	639283.1173	602461.0269
2016	301+58.79	5.00' RT	639339.5032	602384.5701



UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS	

SCALE
0 30 60 90
FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

GRADES AND GEOMETRICS

GG–02

SECTION
CEI
SHEET NO.
23

6/3/2019
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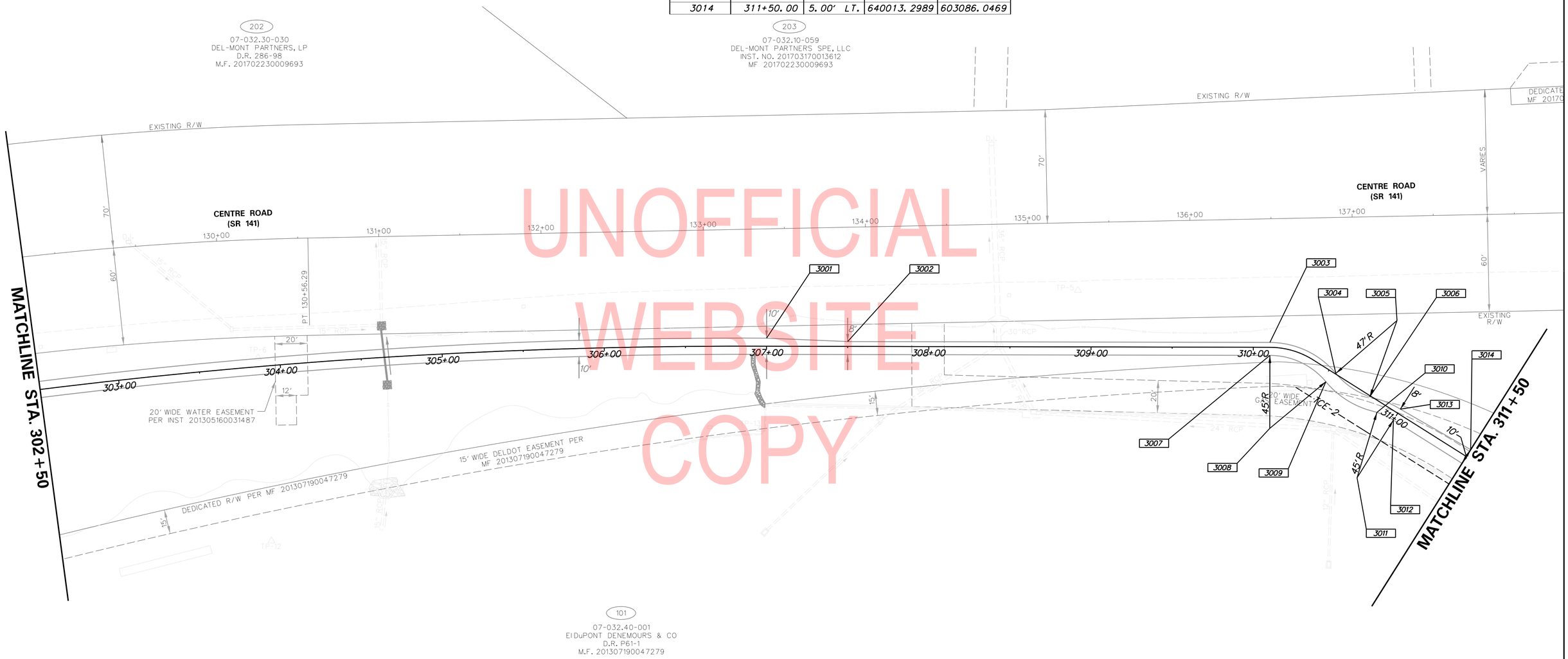
3:38:45 PM

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
3001	307+00.00	5.00' LT.	639755.0625	602730.5751
3002	307+50.00	3.00' LT	639788.9339	602767.4084
3003	310+10.22	3.00' LT.	639972.5492	602951.8027
3004	310+54.62	0.41' LT.	639987.7726	602994.0315
3005	310+69.13	48.12' LT.	640037.5029	602997.6541
3006	310+80.03	0.60' RT.	639992.3932	603019.0415
3007	310+10.22	5.00' RT.	639966.8804	602957.4475
3008	310+10.22	50.00' RT.	639934.9933	602989.1999
3009	310+52.15	7.20' RT.	639979.8059	602993.3022
3010	310+88.87	6.40' RT.	639988.6910	603028.9411
3011	311+00.00	47.00' RT.	639951.5457	603048.7555
3012	310+50.00	5.00' RT.	639991.2281	602988.5118
3013	311+00.00	3.00' LT.	640000.3127	603037.7202
3014	311+50.00	5.00' LT.	640013.2989	603086.0469



UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

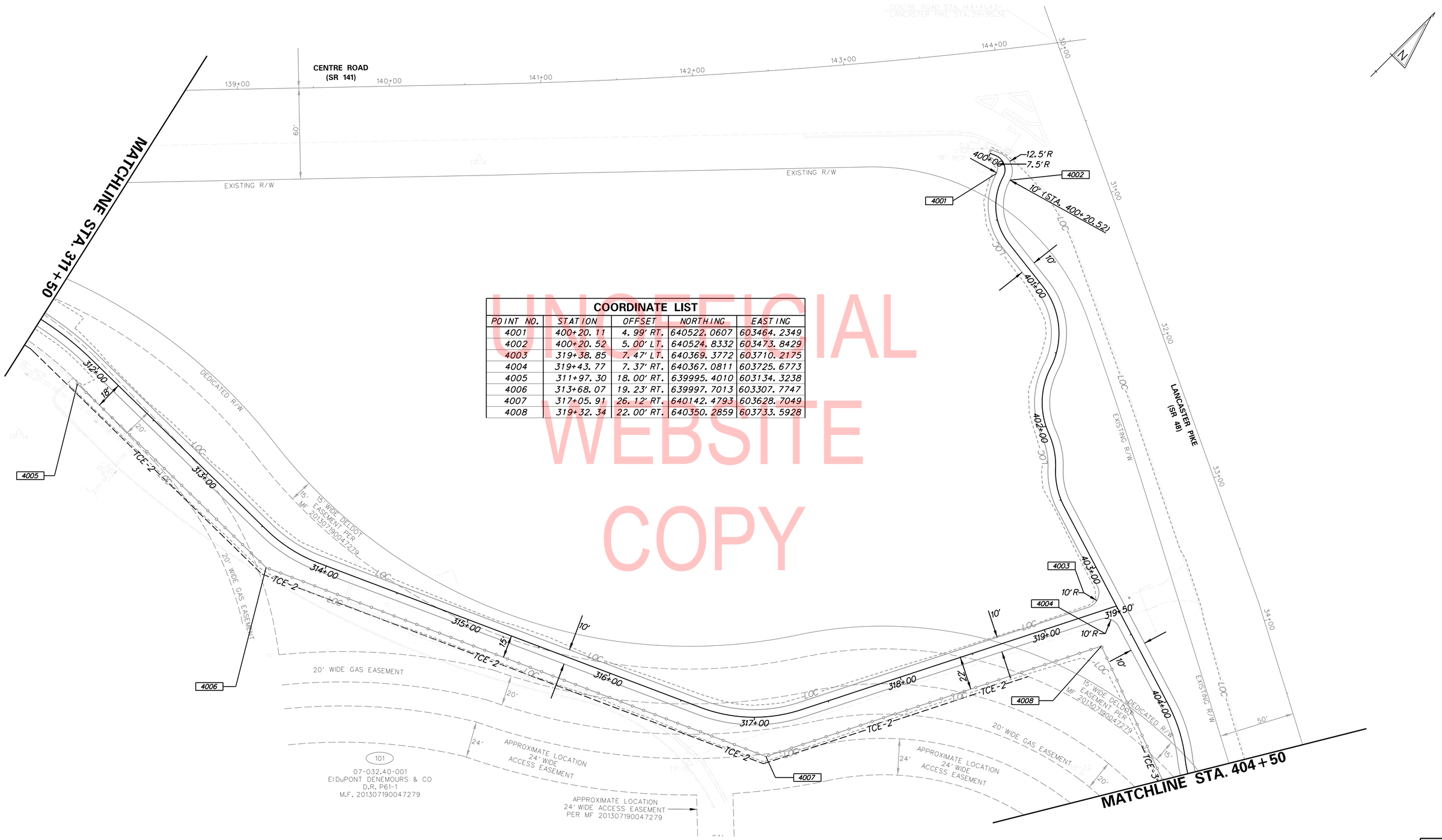
GRADES AND GEOMETRICS

GG-03

SECTION CEI

SHEET NO. 24

6/3/2019 3:36:46 PM \\WORKSPACE\Snap\PROJECTS\155002.00 (DelDOT Agmt. 1730 TAP)\155002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\gg03_crp.dgn



COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
4001	400+20.11	4.99' RT.	640522.0607	603464.2349
4002	400+20.52	5.00' LT.	640524.8332	603473.8429
4003	319+38.85	7.47' LT.	640369.3772	603710.2175
4004	319+43.77	7.37' RT.	640367.0811	603725.6773
4005	311+97.30	18.00' RT.	639995.4010	603134.3238
4006	313+68.07	19.23' RT.	639997.7013	603307.7747
4007	317+05.91	26.12' RT.	640142.4793	603628.7049
4008	319+32.34	22.00' RT.	640350.2859	603733.5928

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ADDENDA / REVISIONS

SCALE
0 30 60 90
FEET

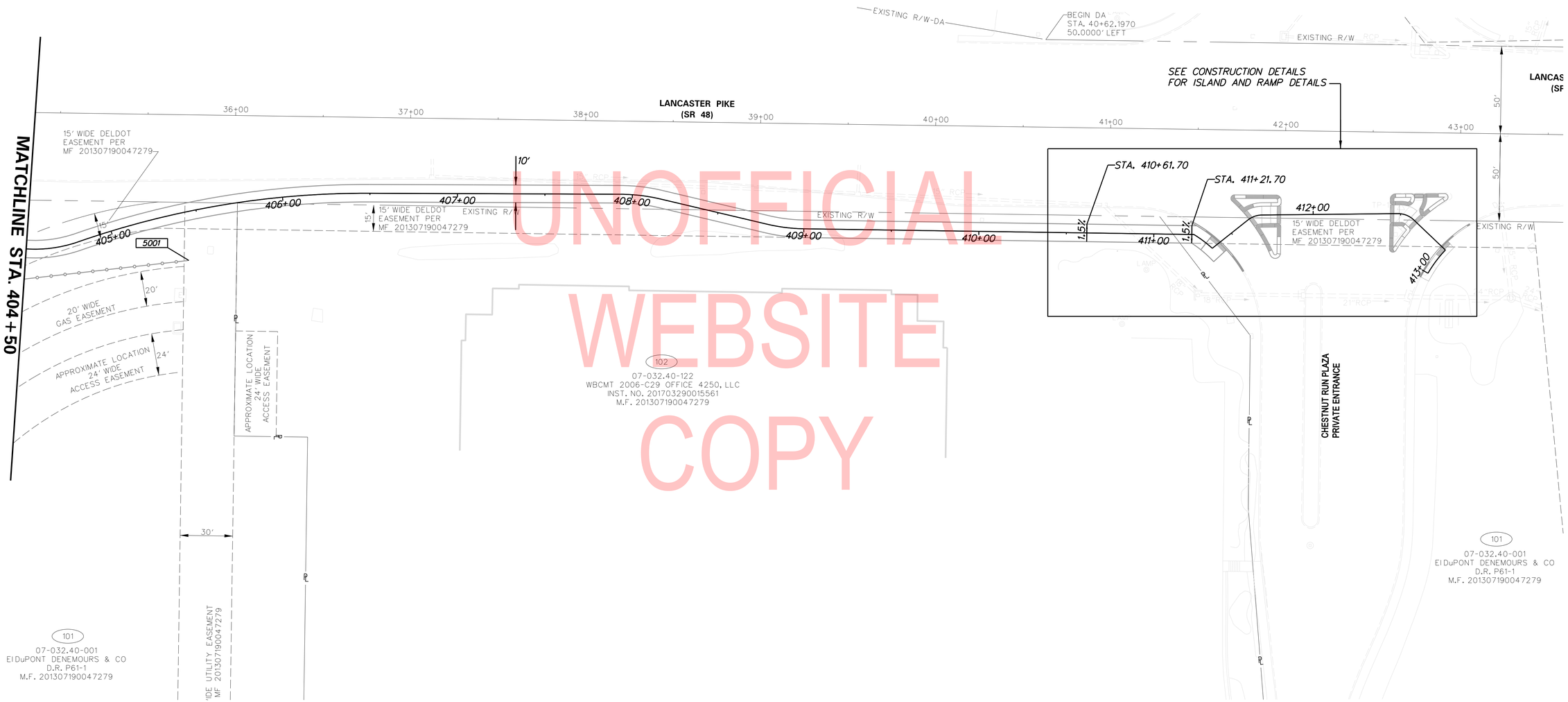
CHESTNUT RUN PLAZA
PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

GRADES AND GEOMETRICS

GG–04
SECTION
CEI
SHEET NO.
25

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
5001	405+39.83	27.43' RT.	640283.0127	603913.1627



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ADDENDA / REVISIONS	

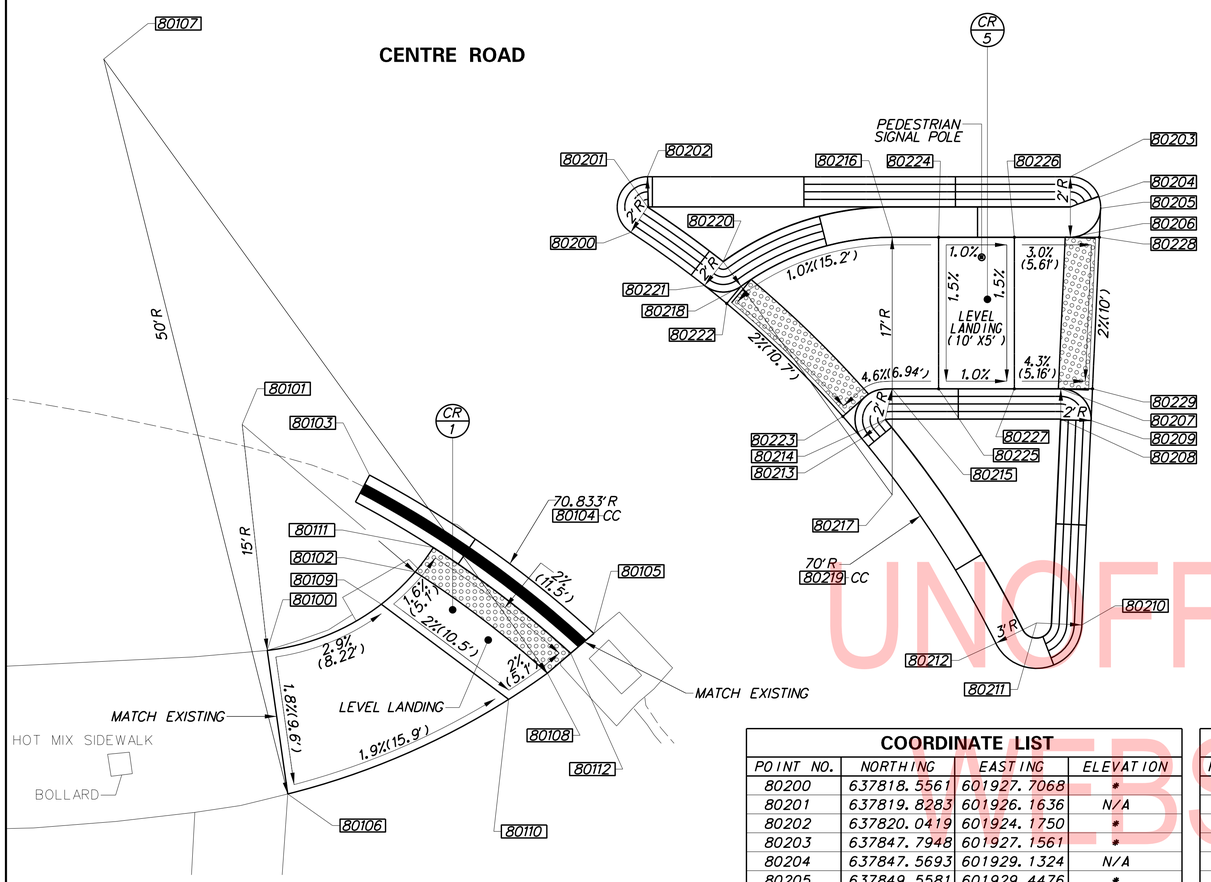
SCALE
0 30 60 90
FEET

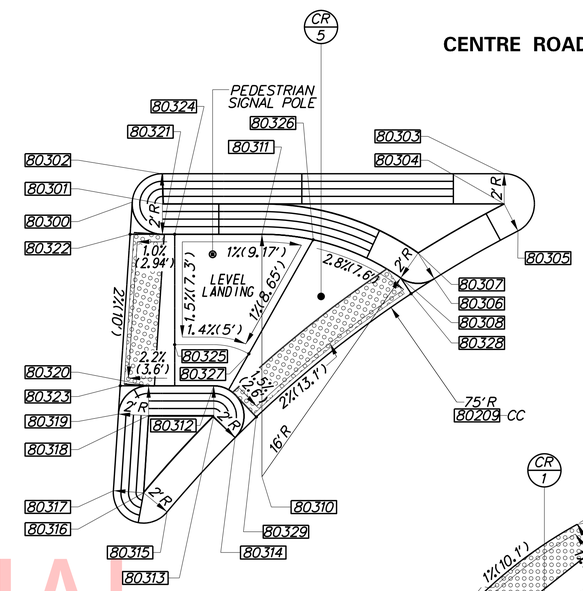
CHESTNUT RUN PLAZA
PEDESTRIAN IMPROVEMENTS

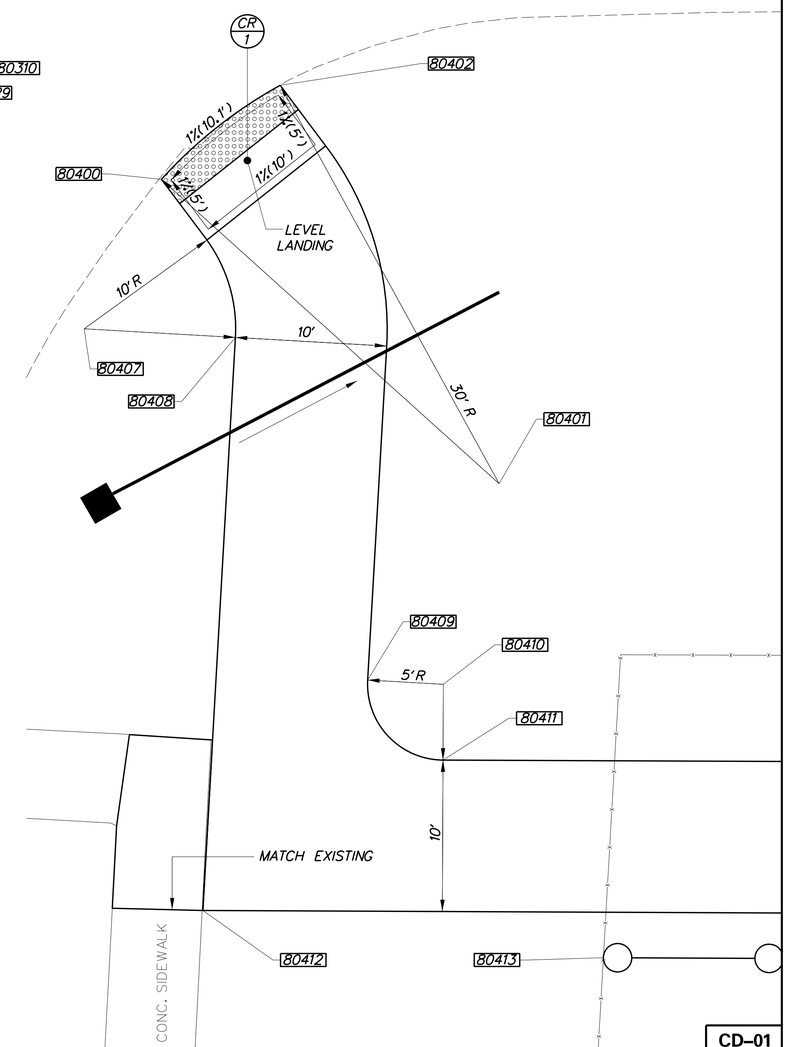
CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

GRADES AND GEOMETRICS

GG-05
SECTION
CEI
SHEET NO.
26







CHESTNUT RUN PLAZA MALL ROAD

UNOFFICIAL WEBSITE COPY

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
80400	637894.4157	601961.6844	*
80401	637914.4325	601984.0300	N/A
80402	637902.8754	601956.3455	*
80407	637888.2894	601970.9474	N/A
80408	637898.1557	601972.5775	155.55
80409	637904.4231	601995.9897	155.32
80410	637909.3562	601996.8047	N/A
80411	637908.8008	602001.7738	155.28
80412	637891.9800	602009.9560	*
80413	637918.8648	602015.9797	*

* = MATCH EXISTING

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
80100	637791.7485	601952.5806	*
80101	637791.6943	601937.5807	N/A
80102	637802.0079	601948.4723	155.90
80103	637799.6953	601941.8009	*
80104	637760.0992	602000.5334	N/A
80105	637813.3036	601953.7717	*
80106	637792.0786	601962.1496	*
80107	637785.1851	601912.6271	N/A
80108	637809.9766	601956.0481	155.68
80109	637799.5562	601950.3553	155.95
80110	637807.2442	601957.4980	155.74
80111	637803.2787	601947.1086	155.87
80112	637811.6352	601954.9132	155.64

* = MATCH EXISTING

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
80200	637818.5561	601927.7068	*
80201	637819.8283	601926.1636	N/A
80202	637820.0419	601924.1750	*
80203	637847.7948	601927.1561	*
80204	637847.5693	601929.1324	N/A
80205	637849.5581	601929.4476	*
80206	637847.3676	601931.1333	156.65
80207	637845.6725	601941.0087	156.49
80208	637845.4417	601942.9954	N/A
80209	637847.4359	601943.3001	*
80210	637845.3897	601956.6557	*
80211	637842.4243	601956.2014	N/A
80212	637839.6136	601957.2501	*
80213	637832.2729	601942.8902	*
80214	637833.9370	601941.7808	N/A
80215	637834.6082	601939.8202	156.52
80216	637835.6762	601929.8774	156.79
80217	637833.8606	601946.7802	N/A
80218	637825.4135	601932.0273	156.58
80219	637774.0298	601981.7199	N/A
80220	637824.4197	601930.2917	N/A
80221	637823.0200	601931.7203	*
80222	637824.3484	601933.0574	156.56
80223	637831.1718	601941.2873	156.35
80224	637838.7227	601930.2047	156.82
80225	637837.6547	601940.1475	156.67
80226	637843.6941	601930.7387	156.77
80227	637842.6261	601940.6815	156.62
80228	637849.2686	601931.3375	156.60
80229	637847.7527	601941.2321	156.40

* = MATCH EXISTING

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
80300	637875.8962	601932.0612	*
80301	637877.9096	601932.4024	N/A
80302	637878.0813	601930.4094	*
80303	637900.5481	601932.8227	*
80304	637900.3345	601934.8112	N/A
80305	637901.0559	601936.6767	*
80306	637895.2182	601939.2241	*
80307	637894.3412	601937.4267	N/A
80308	637893.0277	601938.9350	156.33
80309	637928.1835	602006.7462	N/A
80310	637882.5203	601951.0013	N/A
80311	637884.2292	601935.0928	156.57
80312	637879.9924	601944.6952	156.44
80313	637879.7842	601946.6526	N/A
80314	637881.0341	601948.2408	*
80315	637876.0260	601952.6605	*
80316	637874.6372	601951.2213	N/A
80317	637872.6840	601950.8685	*
80318	637875.5115	601946.1936	N/A
80319	637873.5356	601945.8822	*
80320	637875.7197	601944.2362	156.44
80321	637877.6960	601934.3910	156.62
80322	637875.5735	601934.1630	156.60
80323	637873.8566	601944.0361	156.40
80324	637878.4974	601934.4771	156.63
80325	637877.7195	601941.7192	156.52
80326	637887.5501	601935.8124	156.54
80327	637882.5214	601942.8470	156.45
80328	637893.5988	601940.0390	156.30
80329	637882.5673	601947.0393	156.04

* = MATCH EXISTING

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

CONSTRUCTION DETAILS

CD-01

SECTION CEI

SHEET NO. 27

6/3/2019
\\WFCFILES\Snap\PROJECTS\155002.00 (DelDOT Agmt. 1730 TAP)\155002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\cd01_crp.dgn
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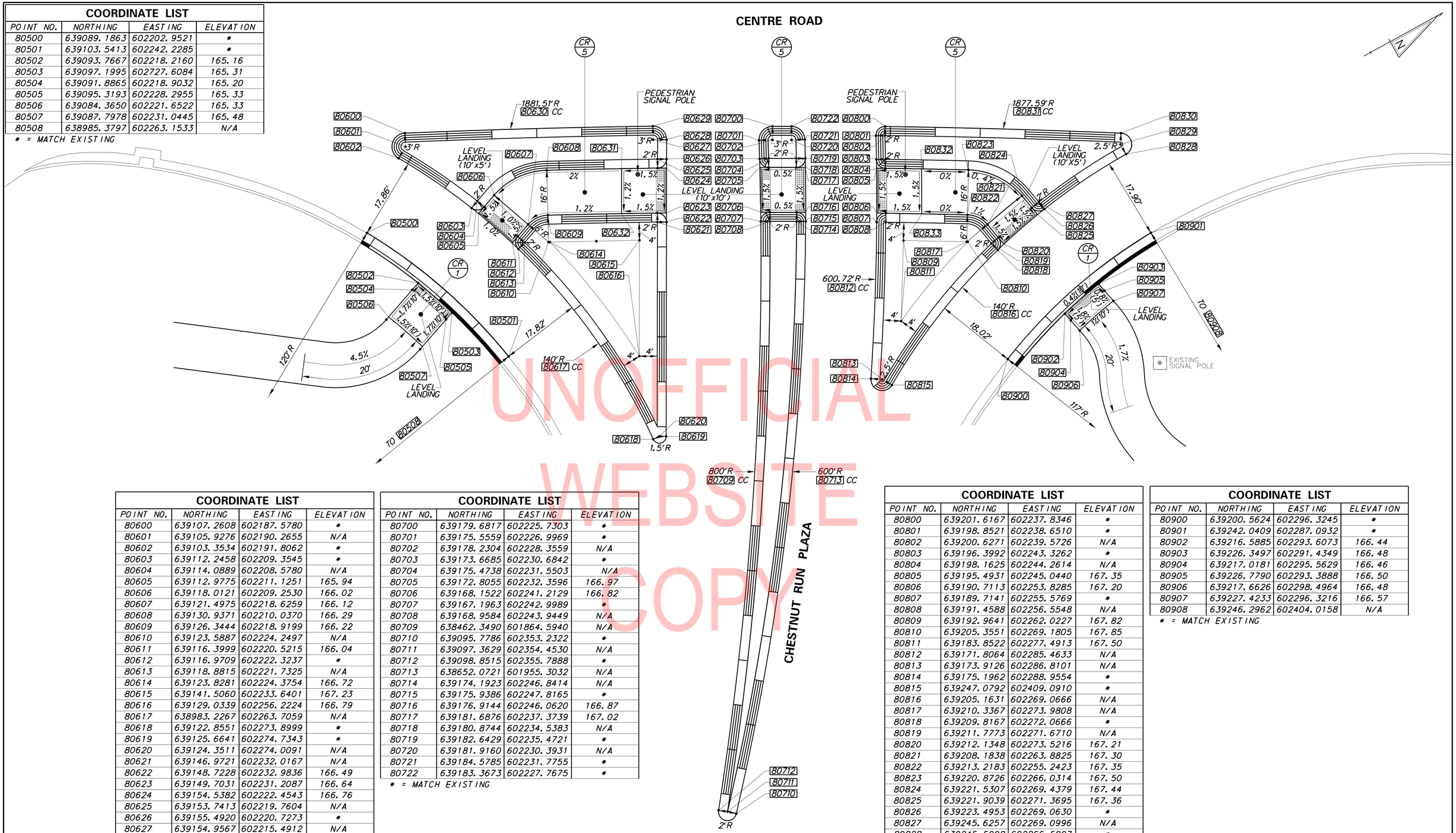
COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
80500	639089.1863	602202.9521	*
80501	639103.5413	602242.2285	*
80502	639093.7667	602218.2160	165.16
80503	639097.1995	602727.6084	165.31
80504	639091.8865	602218.9032	165.20
80505	639095.3193	602228.2955	165.33
80506	639084.3650	602221.6522	165.33
80507	639087.7978	602231.0445	165.48
80508	638985.3797	602263.1533	N/A

* = MATCH EXISTING



UNOFFICIAL WEBSITE COPY

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
80600	639107.2608	602187.5780	*
80601	639105.9276	602190.2655	N/A
80602	639103.3534	602191.8062	*
80603	639112.2458	602209.3545	*
80604	639114.0889	602208.5780	N/A
80605	639112.9775	602211.1251	165.94
80606	639118.0121	602209.2530	166.02
80607	639121.4975	602218.6259	166.12
80608	639130.9371	602210.0370	166.29
80609	639126.3444	602218.9199	166.22
80610	639123.5887	602224.2497	N/A
80611	639116.3999	602220.5215	166.04
80612	639116.9709	602222.3237	*
80613	639118.8815	602221.7325	N/A
80614	639123.8281	602224.3754	166.72
80615	639141.5060	602233.6401	167.23
80616	639129.0339	602256.2224	166.79
80617	638983.2267	602263.7059	N/A
80618	639122.8551	602273.8999	*
80619	639125.6641	602274.7343	*
80620	639124.3511	602274.0091	N/A
80621	639146.9721	602232.0167	N/A
80622	639148.7228	602232.9836	166.49
80623	639149.7031	602231.2087	166.64
80624	639154.5382	602222.4543	166.76
80625	639153.7413	602219.7604	N/A
80626	639155.4920	602220.7273	*
80627	639154.9567	602215.4912	N/A
80628	639157.5828	602216.9416	*
80629	639156.3682	602212.8440	*
80630	638271.1142	603873.0829	N/A
80631	639145.7081	602217.7579	166.61
80632	639140.8727	602226.5131	166.49

* = MATCH EXISTING

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
80700	639179.6817	602225.7303	*
80701	639175.5559	602226.9969	*
80702	639178.2304	602228.3559	N/A
80703	639173.6685	602230.6842	*
80704	639175.4738	602231.5503	N/A
80705	639172.8055	602232.3596	166.97
80706	639168.1522	602241.2129	166.82
80707	639167.1963	602242.9989	*
80708	639168.9584	602243.9449	N/A
80709	638462.3490	601864.5940	N/A
80710	639095.7786	602353.2322	*
80711	639097.3629	602354.4530	N/A
80712	639098.8515	602355.7888	*
80713	638652.0721	601955.3032	N/A
80714	639174.1923	602246.8414	N/A
80715	639175.9386	602247.8165	*
80716	639176.9144	602246.0620	166.87
80717	639181.6876	602237.3739	167.02
80718	639180.8744	602234.5383	N/A
80719	639182.6429	602235.4721	*
80720	639181.9160	602230.3931	N/A
80721	639184.5785	602231.7755	*
80722	639183.3673	602227.7675	*

* = MATCH EXISTING

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
80800	639201.6167	602237.8346	*
80801	639198.8521	602238.6510	*
80802	639200.6271	602239.5726	N/A
80803	639196.3992	602243.3262	*
80804	639198.1625	602244.2614	N/A
80805	639195.4931	602245.0440	167.35
80806	639190.7113	602253.8285	167.20
80807	639189.7141	602255.5769	*
80808	639191.4588	602256.5548	N/A
80809	639192.9641	602262.0227	167.82
80810	639205.3551	602269.1805	167.85
80811	639183.8522	602277.4913	167.50
80812	639171.8064	602285.4633	N/A
80813	639173.9126	602286.8101	N/A
80814	639175.1962	602288.9554	*
80815	639247.0792	602409.0910	*
80816	639205.1631	602269.0666	N/A
80817	639210.3367	602273.9808	N/A
80818	639209.8167	602272.0666	*
80819	639211.7773	602271.6710	N/A
80820	639212.1348	602273.5216	167.21
80821	639208.1838	602263.8825	167.30
80822	639213.2183	602255.2423	167.35
80823	639220.8726	602266.0314	167.50
80824	639221.5307	602269.4379	167.44
80825	639221.9039	602271.3695	167.36
80826	639223.4953	602269.0630	*
80827	639245.6257	602269.0996	N/A
80828	639245.5998	602266.5997	*
80829	639246.8971	602264.4626	N/A
80830	638272.5732	603869.4637	*
80831	638272.5732	603869.4637	N/A
80832	639204.1767	602250.0078	167.50
80833	639199.3943	602258.7933	167.35

* = MATCH EXISTING

COORDINATE LIST

POINT NO.	NORTHING	EASTING	ELEVATION
80900	639200.5624	602296.3245	*
80901	639242.0409	602287.0932	*
80902	639216.5885	602293.6073	166.44
80903	639226.3497	602291.4349	166.48
80904	639217.0181	602295.5629	166.46
80905	639226.7790	602293.3888	166.50
80906	639217.6626	602298.4964	166.48
80907	639227.4233	602296.3216	166.57
80908	639246.2962	602404.0158	N/A

* = MATCH EXISTING

ADDENDA / REVISIONS

SCALE 0 10 20 30 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

CONSTRUCTION DETAILS

CD-02

SECTION: CEI

SHEET NO. 28

6/3/2019 3:36:50 PM
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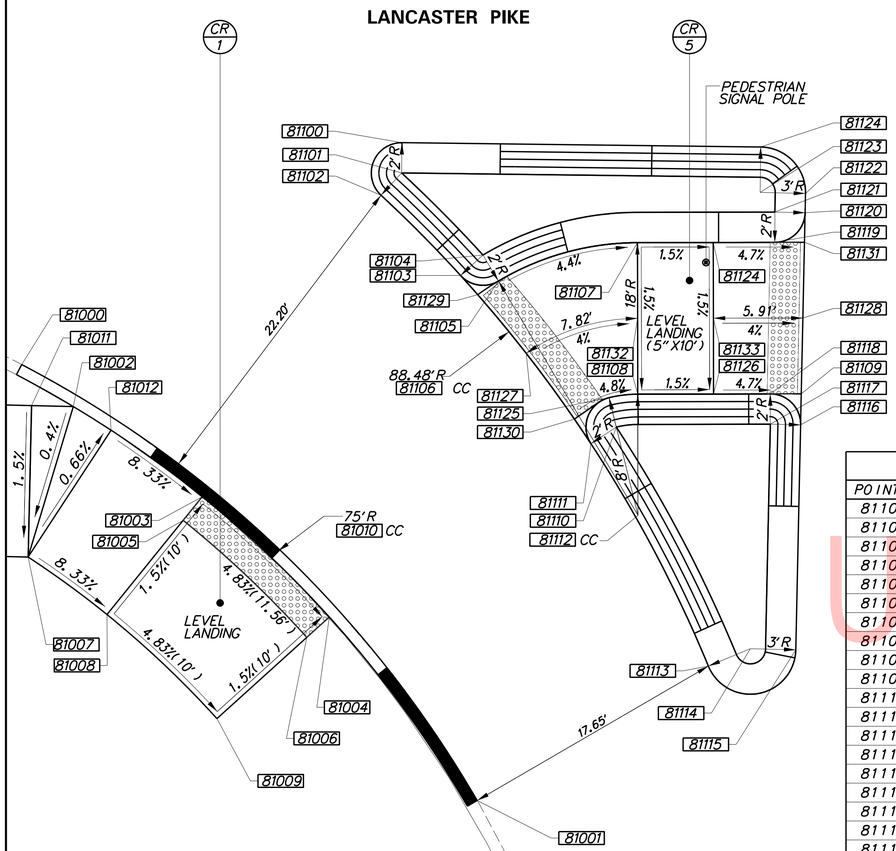
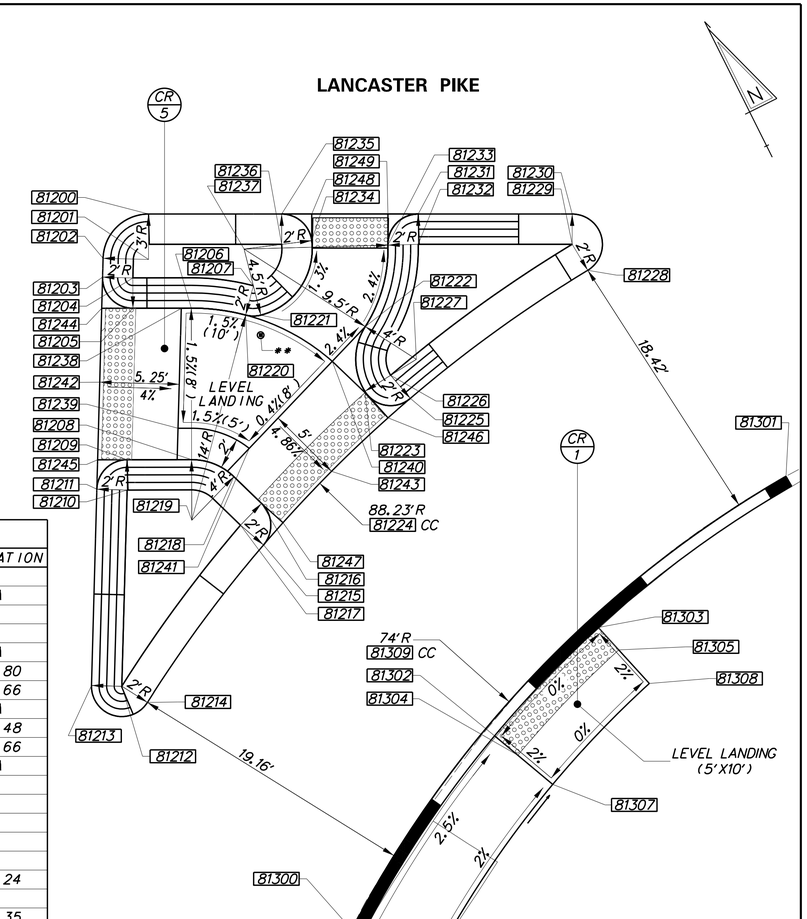


COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
81000	640043.2062	604433.4496	*
81001	640004.0630	604447.4969	*
81002	640039.2074	604435.2585	160.48
81003	640030.0780	604440.2160	159.75
81004	640019.2293	604444.1714	159.27
81005	640029.2488	604438.3960	159.78
81006	640018.6924	604442.2448	159.30
81007	640031.6479	604428.1579	160.44
81008	640025.9297	604431.1170	159.90
81009	640016.5440	604434.5387	159.42
81010	639999.2971	604372.6468	N/A
81011	640040.4950	604432.8194	160.59
81012	640036.6919	604436.7878	160.37

* = MATCH EXISTING

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
81100	640045.0969	604462.4493	*
81101	640043.3185	604461.5344	N/A
81102	640042.6138	604459.6626	*
81103	640035.5289	604461.9939	*
81104	640036.0758	604463.9207	N/A
81105	640034.0813	604464.0688	159.00
81106	640011.4405	604376.8561	*
81107	640032.2520	604473.4084	158.57
81108	640023.2915	604468.9617	158.42
81109	640018.4920	604478.6256	158.08
81110	640021.9836	604466.7223	N/A
81111	640021.7506	604464.7359	*
81112	640016.1307	604465.4019	N/A
81113	640005.1513	604465.1122	*
81114	640004.9380	604468.1047	N/A
81115	640003.5412	604470.7596	*
81116	640016.6826	604477.6746	*
81117	640017.6138	604475.9046	N/A
81118	640019.4027	604476.7920	158.16
81119	640028.2158	604481.5354	158.30
81120	640029.0758	604484.1950	*
81121	640030.0071	604482.4250	N/A
81122	640030.2015	604484.7862	*
81123	640031.5983	604482.1312	N/A
81124	640030.0266	604477.8893	158.50
81125	640023.2915	604468.9617	158.57
81126	640021.0675	604473.4398	158.35
81127	640029.0001	604463.5761	158.84
81128	640022.9206	604480.9555	158.14
81129	640033.8839	604462.4393	159.06
81130	640023.6902	604464.4840	158.64
81131	640027.3430	604483.2882	158.22
81132	640027.7696	604471.1875	158.49
81133	640025.5470	604475.6466	158.42

* = MATCH EXISTING



COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
81200	640003.7771	604544.7082	*
81201	640001.0931	604543.3681	N/A
81202	640002.5055	604540.7214	*
81203	640001.4067	604540.1355	*
81204	640000.4651	604541.8999	N/A
81205	639998.6738	604541.0103	155.80
81206	639996.9605	604544.4602	155.66
81207	639996.4525	604548.7868	N/A
81208	639988.0050	604540.0121	155.48
81209	639989.8998	604536.1952	155.66
81210	639988.1086	604535.3056	N/A
81211	639989.0502	604533.5412	*
81212	639976.6801	604529.2061	*
81213	639977.6218	604527.4416	*
81214	639974.9705	604530.2440	*
81215	639980.8455	604541.7426	*
81216	639983.3535	604542.8513	155.24
81217	639982.6882	604540.9652	*
81218	639985.7523	604542.0051	155.35
81219	639984.4217	604538.2329	N/A
81220	639994.9459	604547.4656	155.61
81221	639994.4960	604548.3584	155.60
81222	639990.7365	604554.1893	155.43
81223	639986.9240	604552.2587	155.37
81224	639899.5307	604576.0444	N/A
81225	639985.1725	604554.7327	*
81226	639987.1133	604554.2497	N/A
81227	639987.3026	604556.2408	N/A
81228	639987.5029	604568.9919	*
81229	639989.4965	604568.8321	N/A
81230	639991.2859	604569.7255	*
81231	639995.8275	604560.6367	155.27
81232	639994.0381	604559.7433	N/A
81233	639994.8796	604557.9282	155.29
81234	639997.3983	604553.5620	155.51
81235	639999.8515	604552.5688	155.48
81236	639998.0622	604551.6754	N/A
81237	639998.8919	604549.3171	N/A
81238	639997.2405	604543.8629	155.67
81239	639990.2563	604540.1357	155.55
81240	639989.6644	604551.2145	155.51
81241	639986.9700	604543.7438	155.48
81242	639995.2903	604536.8708	155.80
81243	639983.1880	604547.9321	155.25
81244	639999.5897	604539.1653	155.88
81245	639990.7646	604534.4556	155.73
81246	639984.6800	604552.8401	155.26
81247	639981.5857	604543.5514	155.16
81248	639998.9656	604554.3445	155.49
81249	639996.7180	604558.8461	155.25

* = MATCH EXISTING ** = PEDESTRIAN SIGNAL POLE

COORDINATE LIST			
POINT NO.	NORTHING	EASTING	ELEVATION
81300	639954.9137	604536.0488	*
81301	639968.7470	604574.6689	*
81302	639962.7630	604549.7588	154.80
81303	639966.1019	604559.0771	154.80
81304	639960.9265	604550.5607	154.84
81305	639964.1740	604559.6241	154.84
81306	639950.8670	604538.9855	155.20
81307	639958.1771	604551.7611	154.90
81308	639961.2879	604560.4429	154.90
81309	639895.6294	604579.0713	N/A

* = MATCH EXISTING

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ADDENDA / REVISIONS

SCALE 0 5 10 15 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO. N/A
T201801102	DESIGNED BY: TMB
COUNTY	CHECKED BY: WFC
NEW CASTLE	

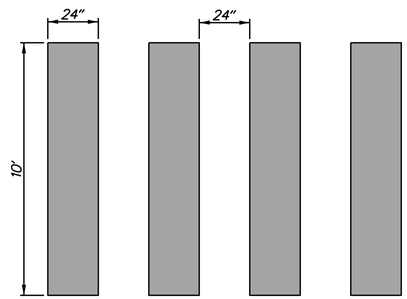
CONSTRUCTION DETAILS

CD-03

SECTION CEI

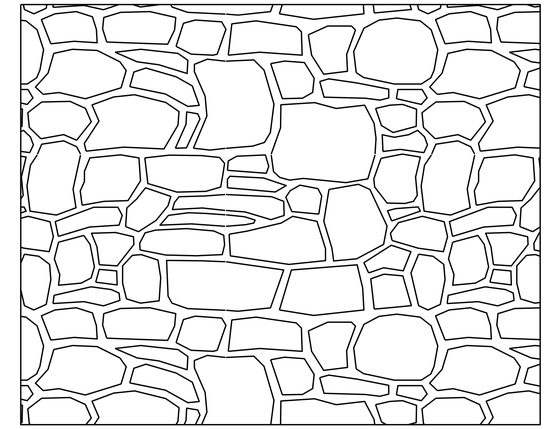
SHEET NO. 29

6/3/2019 3:36:52 PM WFC E:\Snap\PROJECTS\155002.00 (DelDOT Agmt. 1730 TAP)\155002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\cd03_crp.dgn



STRIPING OF CROSSWALK SHALL BE THERMOPLASTIC ITEM NO. 817002

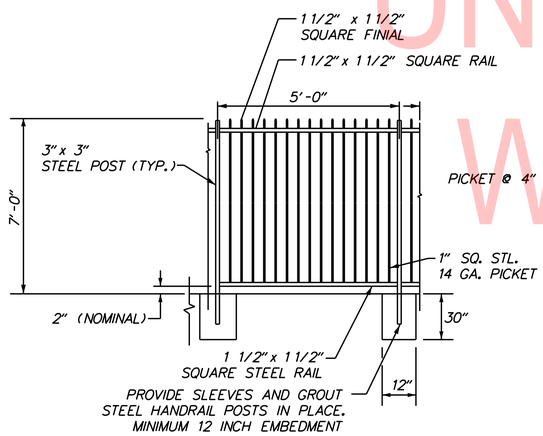
PEDESTRIAN CROSSWALK DETAIL



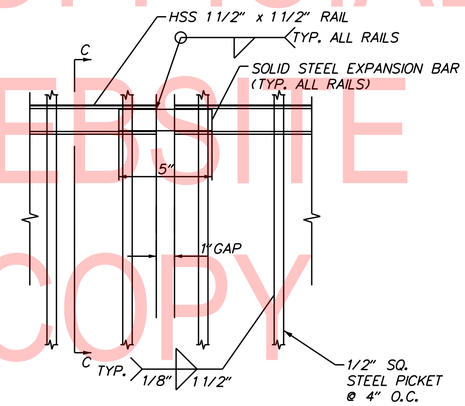
PATTERNED PORTLAND CEMENT CONCRETE DETAIL

NOTES:
USE ITEM 705519 - PATTERNED PORTLAND CEMENT CONCRETE SIDEWALK, RED PIGMENT, 6".
REFER TO LANDSCAPING PLAN (SHEET LS-01) FOR LOCATION.

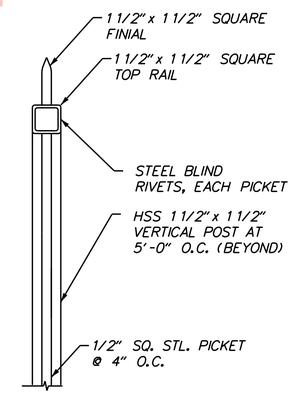
UNOFFICIAL WEBSITE COPY



727005 - DECORATIVE FENCE ELEVATION



DECORATIVE FENCE EXPANSION JOINT



SECTION C-C

NOTES:

1. ALUMINUM FENCE TO BE SET ON 12" DIA. X 30" TALL CONCRETE FOUNDATION AT ALL LOCATIONS. ALL FOUNDATIONS TO BE CLASS B CONCRETE.
2. FENCE TO HAVE BLACK POLYESTER FINISH.
3. EXPANSION JOINTS SHALL BE LOCATED EVERY 18' ALONG THE TOP, INTERMEDIATE AND BOTTOM RAILS.
4. MAINTAIN 4" MAXIMUM SPACING BETWEEN PICKETS.
5. GREASE INTERNAL EXPANSION BAR IMMEDIATELY PRIOR TO FINAL CONSTRUCTION.
6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS STAMPED BY A LICENSED DE PROFESSIONAL ENGINEER TO DELDOT FOR APPROVAL. THE SHOP DRAWINGS SHALL INCLUDE ALL CORNER POSTS AND TERMINAL CONNECTIONS.
7. THE FENCE SHALL BE STAKED OUT IN THE FIELD FOR APPROVAL PRIOR TO INSTALLATION.
8. FENCE SHOWN WITH POSTS EMBEDED IN CONCRETE. CONTRACTOR HAS OPTION TO BOLT FENCE TO FOUNDATIONS.
9. ALL COSTS INCLUDED IN ITEM - 727005 - DECORATIVE FENCE.

6/3/2019
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ADDENDA / REVISIONS		NOT TO SCALE	CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS	CONTRACT T201801102	BRIDGE NO. N/A	CONSTRUCTION DETAILS	CD-04
				COUNTY NEW CASTLE	DESIGNED BY: TMB		SECTION CEI
					CHECKED BY: WFC		SHEET NO. 30

TRAFFIC CONTROL NOTES

1. 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. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 801000.
( )	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE SUPERVISION OF THE INSTALLATION, OPERATION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT SHALL NOT BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR SHALL BE PAID FOR UNDER ITEM 801000.

2. THE CONTRACTOR SHALL COORDINATE THE TIMING OF ALL WORK WITH DON LYNCH OF DUPONT, PHONE NUMBER (302) 999-6018 (OFFICE), OR (302) 218-9443 (CELL).

3. USE OF CHESTNUT RUN PLAZA INTERNAL STREETS BY THE CONTRACTOR IS STRICTLY PROHIBITED.

PROJECT NOTES FOR SEDIMENT AND STORMWATER MANAGEMENT

1.

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

2. 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. THE DISTURBED AREA FOR THIS PROJECT IS 1.52 ACRES.

4. THE AMOUNT OF NEW IMPERVIOUS FOR THIS PROJECT IS 0.97 ACRES.

5. STORMWATER MANAGEMENT E&S SHEETS, ONCE APPROVED BY THE STORMWATER ENGINEER, ARE VALID FOR FIVE YEARS FROM THE DATE OF APPROVAL. ANY EXTENSION BEYOND THIS TIME PERIOD SHALL BE APPROVED BY THE STORMWATER ENGINEER.

6. THE CONTRACTOR HAS THE ULTIMATE RESPONSIBILITY FOR COMPLIANCE WITH THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN AS WELL AS ADHERING TO THE REQUIREMENTS OF THE POLLUTION PREVENTION ASPECTS (I.E. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)), DELAWARE SEDIMENT AND STORMWATER REGULATIONS AND ANY OTHER APPLICABLE LAWS, REGULATIONS, PERMITS, ETC.

7. IF THESE SHEETS NEED TO BE MODIFIED, WRITTEN CORRESPONDENCE FROM THE CONTRACTOR SHALL BE SENT TO THE APPROPRIATE DELDOT CONSTRUCTION PERSONNEL. NO CONSTRUCTION ACTIVITY CONCERNING THE PROPOSED CHANGES CAN BEGIN UNTIL WRITTEN APPROVAL FROM THE ENGINEER.

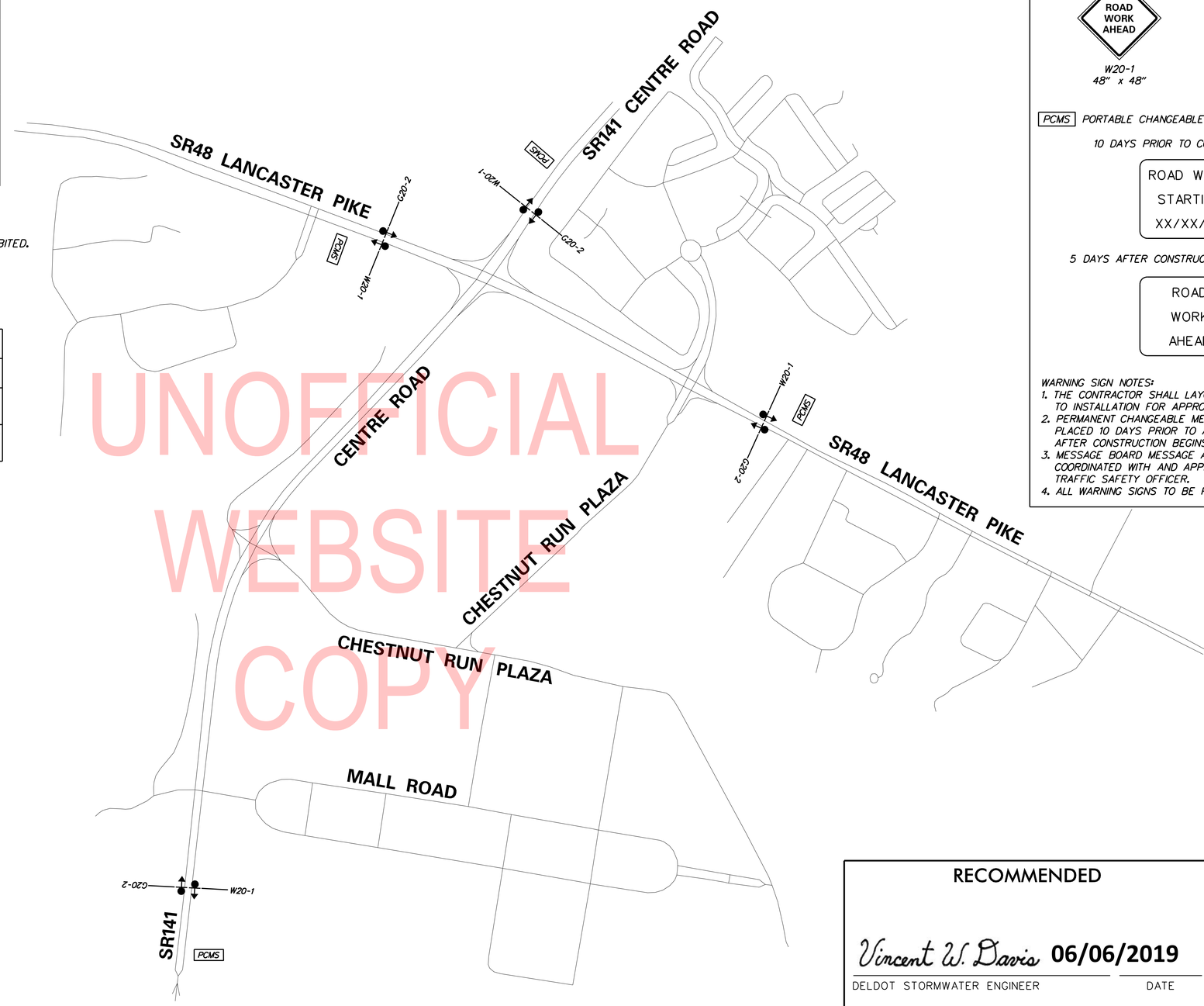
8. ALL PERIMETER EROSION AND SEDIMENT CONTROL ITEMS INCLUDING SEDIMENT TRAPS, SHOWN GRAPHICALLY ON THE FOLLOWING SHEETS, SHALL BE INSTALLED FIRST BEFORE ANY LAND DISTURBING ACTIVITIES MAY BEGIN. THE ONLY DISTURBANCE WILL BE WHAT IS REQUIRED TO INSTALL THE PARTICULAR EROSION AND SEDIMENT CONTROL PRACTICE(S). INTERIOR / INTERMITTENT EROSION AND SEDIMENT CONTROL ITEMS SHALL BE PLACED AS NEEDED DURING CONSTRUCTION.

9. ALL SWALES, WHETHER PERMANENT OR TEMPORARY, SHALL BE LINED WITH EROSION CONTROL BLANKET MULCH OR APPROVED EQUAL WITHIN FIVE CALENDAR DAYS UPON CONSTRUCTION INITIATION. THE MINIMUM COVERAGE OF THE BLANKET UP THE SIDE SLOPES SHALL COINCIDE WITH A 10YR, 24HR STORM DEPTH.

10. UPON DISCOVERY OF ANY SEDIMENT LADEN RELEASE LEAVING THE LIMIT OF CONSTRUCTION VIA PUMPING, RUNOFF, OR WIND, THE CONTRACTOR SHALL IMMEDIATELY EMPLOY BEST AVAILABLE TECHNOLOGIES TO CONTROL ANY FURTHER TURBID DISCHARGE. THIS COULD INCLUDE ADDITIONAL STANDARD E&S PRACTICES AND POSSIBLY THE USE OF FLOCCULANTS.

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL INSTALL SILT FENCE AND INLET PROTECTION AS SHOWN ON PHASING SHEETS.



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ADVANCED WARNING SIGN LAYOUT

CONSTRUCTION ZONE WARNING SIGNS

ROAD WORK AHEAD — W20-1 48" x 48"

END ROAD WORK — G20-2 48" x 24"

PCMS PORTABLE CHANGEABLE MESSAGE SIGN LOCATION

10 DAYS PRIOR TO CONSTRUCTION:

ROAD WORK
STARTING
XX/XX/XX

5 DAYS AFTER CONSTRUCTION HAS BEGUN:

ROAD
WORK
AHEAD

WARNING SIGN NOTES:
1. THE CONTRACTOR SHALL LAYOUT SIGNS PRIOR TO INSTALLATION FOR APPROVAL BY THE ENGINEER.
2. PERMANENT CHANGEABLE MESSAGE SIGNS SHALL BE PLACED 10 DAYS PRIOR TO AND REMAIN 5 DAYS AFTER CONSTRUCTION BEGINS.
3. MESSAGE BOARD MESSAGE AND LOCATIONS SHALL BE COORDINATED WITH AND APPROVED BY THE DISTRICT TRAFFIC SAFETY OFFICER.
4. ALL WARNING SIGNS TO BE PAID UNDER ITEM *810001.

RECOMMENDED

Vincent W. Davis 06/06/2019

DELDOT STORMWATER ENGINEER — DATE

SEAL

"I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THESE PLANS MEET THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS AND THAT ALL CLEARING, GRADING, AND CONSTRUCTION WILL BE ACCOMPLISHED PURSUANT TO THE PLAN."

ADDENDA / REVISIONS

NOT TO SCALE

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

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

CS-01

SECTION: CEI

SHEET NO. 31

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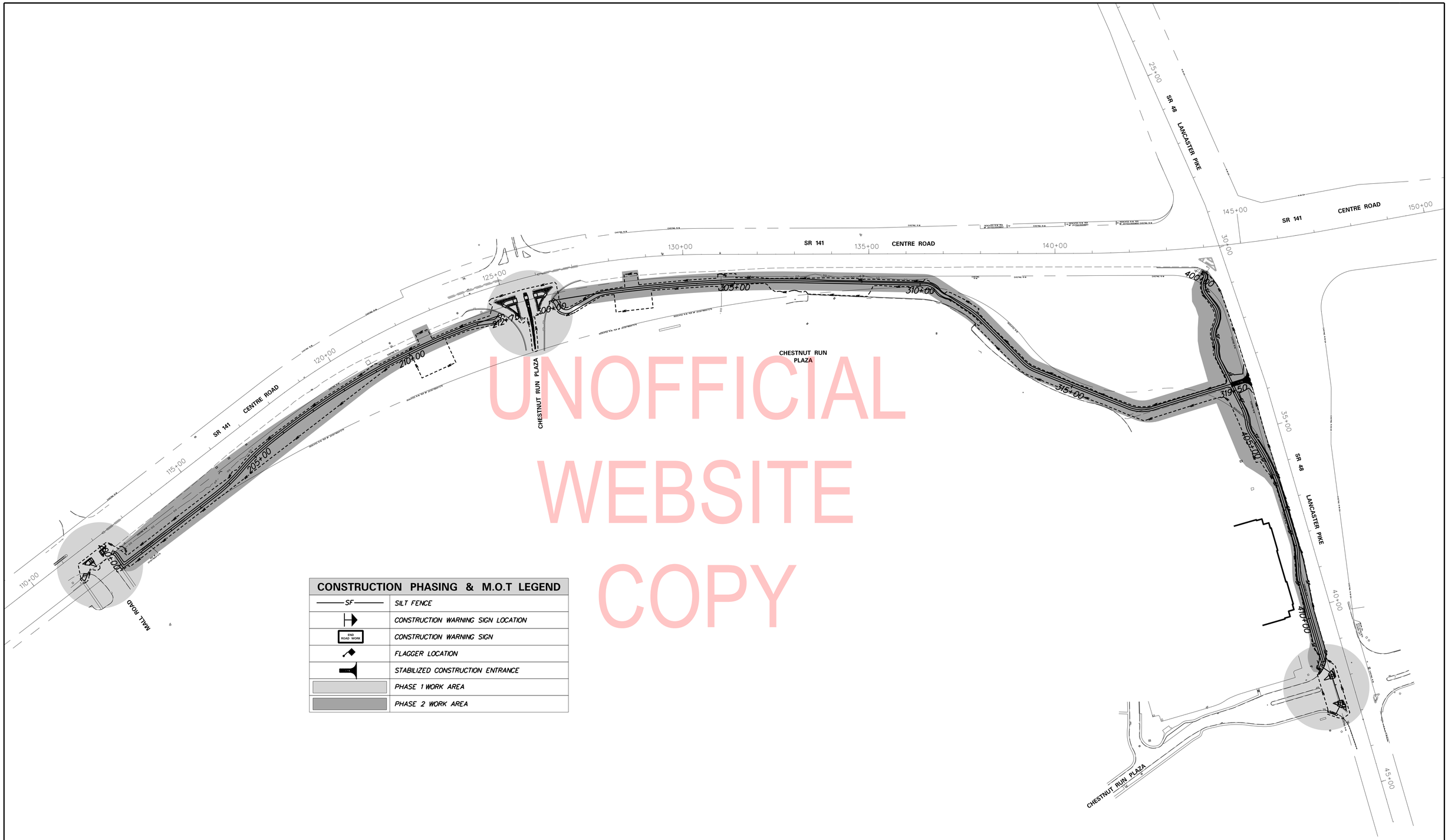

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CONSTRUCTION PHASING & M.O.T LEGEND	
—SF—	SILT FENCE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
	FLAGGER LOCATION
	STABILIZED CONSTRUCTION ENTRANCE
	PHASE 1 WORK AREA
	PHASE 2 WORK AREA

ADDENDA / REVISIONS

SCALE
0 120 240 360
FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN

CS-02
SECTION
CEI
SHEET NO.
32

05-JUN-2019
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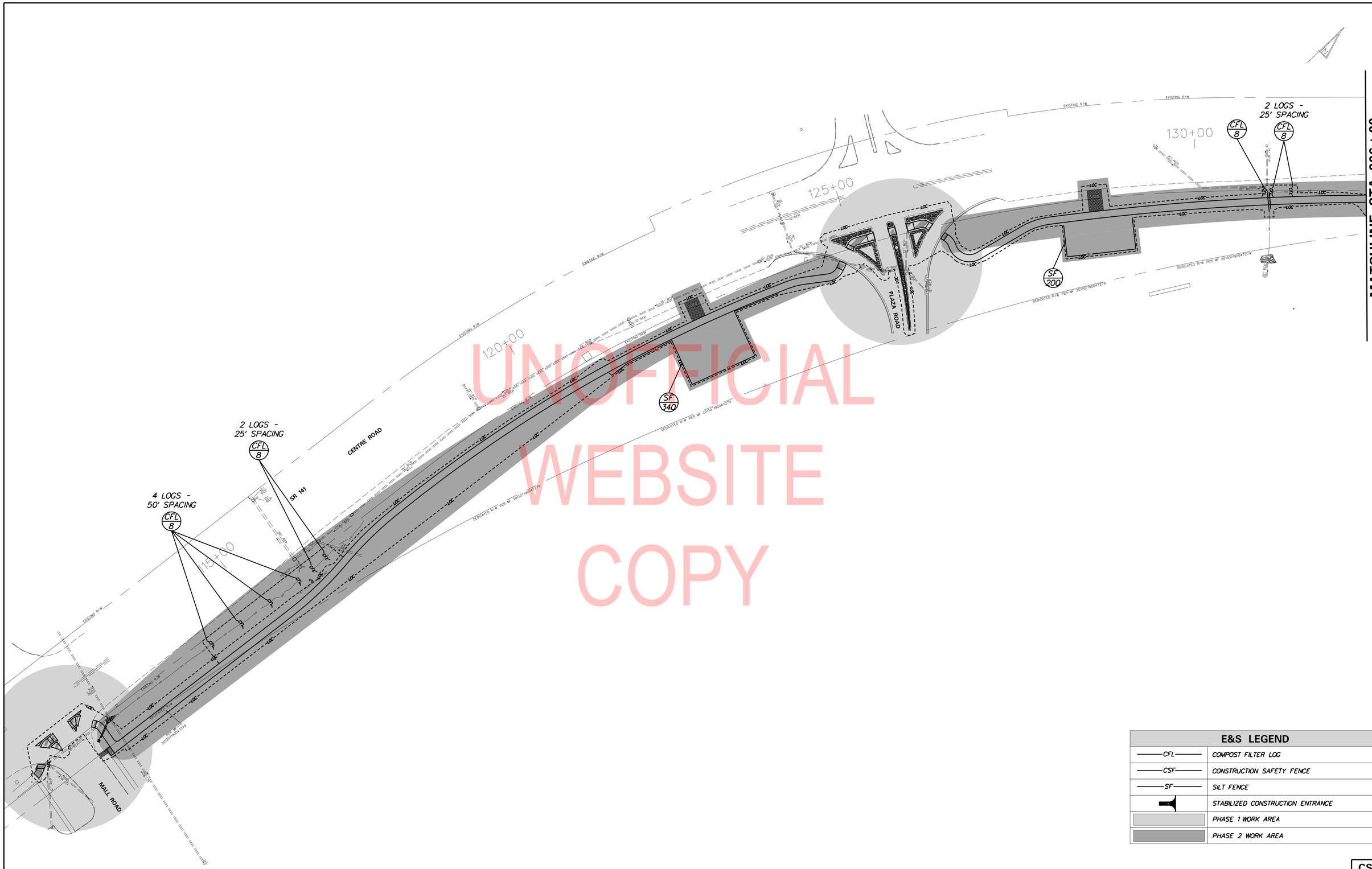

E&S LEGEND	
—CFL—	COMPOST FILTER LOG
—CSF—	CONSTRUCTION SAFETY FENCE
—SF—	SILT FENCE
	STABILIZED CONSTRUCTION ENTRANCE
	PHASE 1 WORK AREA
	PHASE 2 WORK AREA

ADDENDA / REVISIONS

SCALE 0 60 120 180 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN

CS-03

SECTION	SHEET NO.
CEI	33

06-JUN-2019
\\DOFILES\Snap\PROJECTS\155002.00 (DelDOT Agmt. 1730 TAP)\155002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\cs03_crp.dgn
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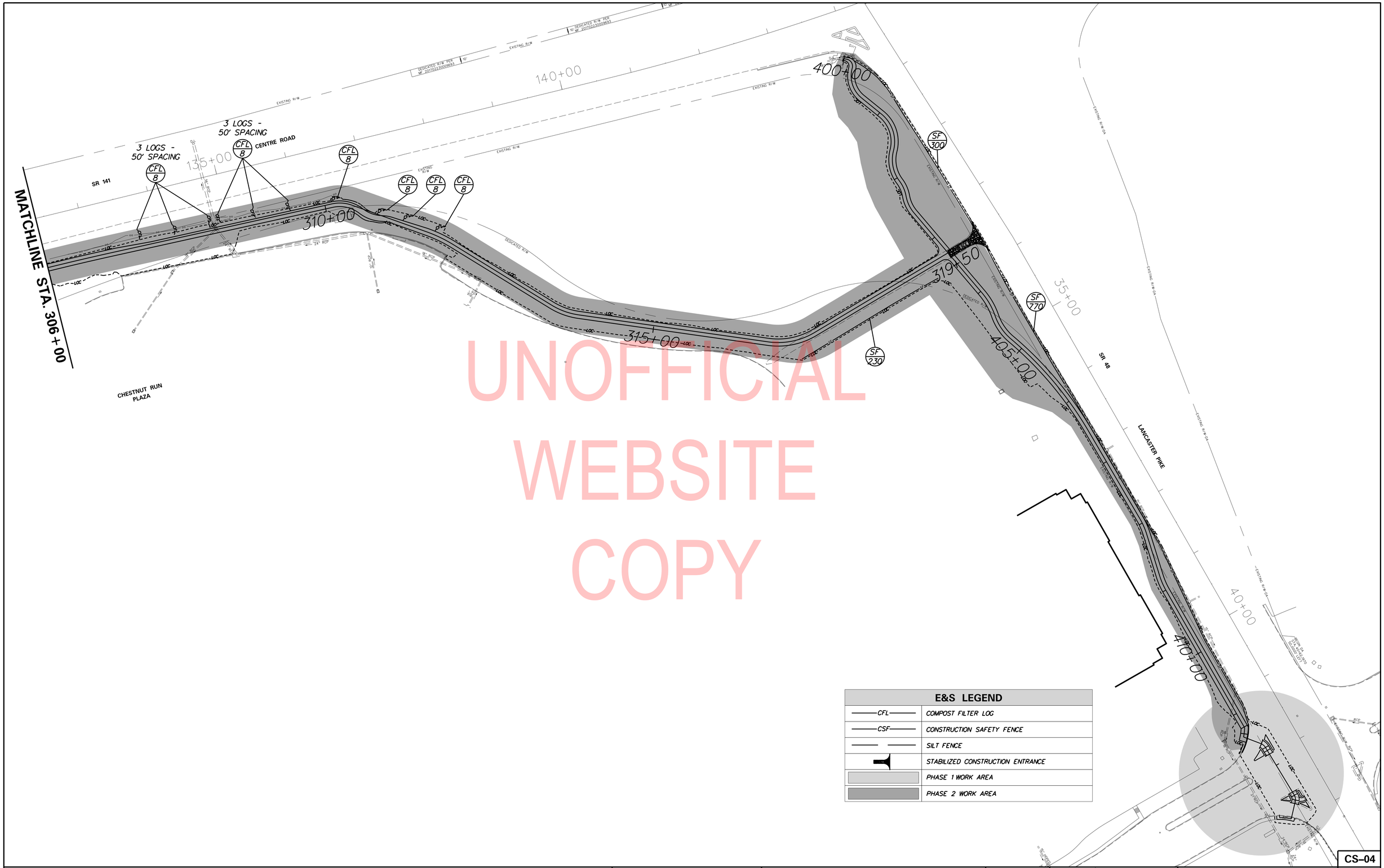


UNOFFICIAL WEBSITE COPY

ADDENDA / REVISIONS

SCALE 0 60 120 180 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN

CS-04

SECTION CEI

SHEET NO. 34

05-JUN-2019 \\WORFILE\Snap\PROJECTS\155002.00 (DelDOT Agmt. 1730 TAP)\155002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\cs04_crp.dgn 09:25

LANDSCAPE IDENTIFIER LEGEND

LS 4 — 3

OF PLANTS

PLANT ID #

MISC. IDENTIFIER LEGEND

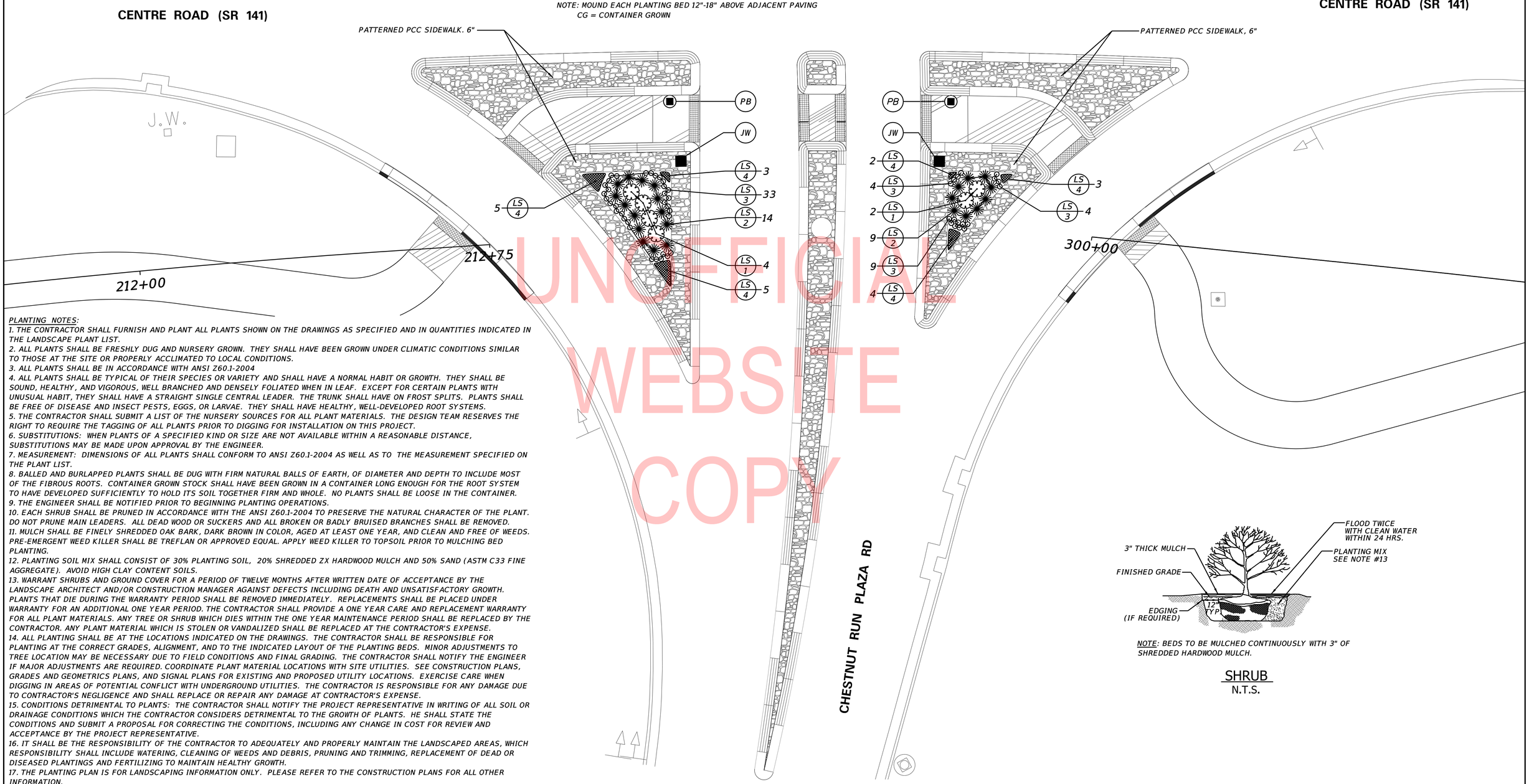
JW — JUNCTION WELL (BY OTHERS)

PB — PEDESTRIAN POLE BASE (BY OTHERS)

LANDSCAPE PLANT LIST

LS ID	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	SIZE	COMMENTS
1	6	ROSA "RADRAZZ"	KNOCK OUT ROSES	36"-48"	3 GAL.	CG
2	23	JUNIPER SQUAMATA "BLUE STAR"	BLUE STAR JUNIPER	24"-36"	3 GAL.	CG
3	50	LIRIOPE MUSCARI "BIG BLUE"	BIG BLUE LIRIOPE	12"-18"	1 GAL.	CG
4	22	SEDUM ACRE	GOLDMOSS SEDUM	2"-4"	1 GAL.	CG

NOTE: MOUND EACH PLANTING BED 12"-18" ABOVE ADJACENT PAVING
CG = CONTAINER GROWN



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PLANTING NOTES:

1. THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANTS SHOWN ON THE DRAWINGS AS SPECIFIED AND IN QUANTITIES INDICATED IN THE LANDSCAPE PLANT LIST.
2. ALL PLANTS SHALL BE FRESHLY DUG AND NURSERY GROWN. THEY SHALL HAVE BEEN GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE AT THE SITE OR PROPERLY ACCLIMATED TO LOCAL CONDITIONS.
3. ALL PLANTS SHALL BE IN ACCORDANCE WITH ANSI Z60.1-2004
4. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OR GROWTH. THEY SHALL BE SOUND, HEALTHY, AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. EXCEPT FOR CERTAIN PLANTS WITH UNUSUAL HABIT, THEY SHALL HAVE A STRAIGHT SINGLE CENTRAL LEADER. THE TRUNK SHALL HAVE ON FROST SPLITS. PLANTS SHALL BE FREE OF DISEASE AND INSECT PESTS, EGGS, OR LARVAE. THEY SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS.
5. THE CONTRACTOR SHALL SUBMIT A LIST OF THE NURSERY SOURCES FOR ALL PLANT MATERIALS. THE DESIGN TEAM RESERVES THE RIGHT TO REQUIRE THE TAGGING OF ALL PLANTS PRIOR TO DIGGING FOR INSTALLATION ON THIS PROJECT.
6. SUBSTITUTIONS: WHEN PLANTS OF A SPECIFIED KIND OR SIZE ARE NOT AVAILABLE WITHIN A REASONABLE DISTANCE, SUBSTITUTIONS MAY BE MADE UPON APPROVAL BY THE ENGINEER.
7. MEASUREMENT: DIMENSIONS OF ALL PLANTS SHALL CONFORM TO ANSI Z60.1-2004 AS WELL AS TO THE MEASUREMENT SPECIFIED ON THE PLANT LIST.
8. BALLED AND BURLAPPED PLANTS SHALL BE DUG WITH FIRM NATURAL BALLS OF EARTH, OF DIAMETER AND DEPTH TO INCLUDE MOST OF THE FIBROUS ROOTS. CONTAINER GROWN STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER FIRM AND WHOLE. NO PLANTS SHALL BE LOOSE IN THE CONTAINER.
9. THE ENGINEER SHALL BE NOTIFIED PRIOR TO BEGINNING PLANTING OPERATIONS.
10. EACH SHRUB SHALL BE PRUNED IN ACCORDANCE WITH THE ANSI Z60.1-2004 TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. DO NOT PRUNE MAIN LEADERS. ALL DEAD WOOD OR SUCKERS AND ALL BROKEN OR BADLY BRUISED BRANCHES SHALL BE REMOVED.
11. MULCH SHALL BE FINELY SHREDDED OAK BARK, DARK BROWN IN COLOR, AGED AT LEAST ONE YEAR, AND CLEAN AND FREE OF WEEDS. PRE-EMERGENT WEED KILLER SHALL BE TREFLAN OR APPROVED EQUAL. APPLY WEED KILLER TO TOPSOIL PRIOR TO MULCHING BED PLANTING.
12. PLANTING SOIL MIX SHALL CONSIST OF 30% PLANTING SOIL, 20% SHREDDED ZX HARDWOOD MULCH AND 50% SAND (ASTM C33 FINE AGGREGATE). AVOID HIGH CLAY CONTENT SOILS.
13. WARRANT SHRUBS AND GROUND COVER FOR A PERIOD OF TWELVE MONTHS AFTER WRITTEN DATE OF ACCEPTANCE BY THE LANDSCAPE ARCHITECT AND/OR CONSTRUCTION MANAGER AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH. PLANTS THAT DIE DURING THE WARRANTY PERIOD SHALL BE REMOVED IMMEDIATELY. REPLACEMENTS SHALL BE PLACED UNDER WARRANTY FOR AN ADDITIONAL ONE YEAR PERIOD. THE CONTRACTOR SHALL PROVIDE A ONE YEAR CARE AND REPLACEMENT WARRANTY FOR ALL PLANT MATERIALS. ANY TREE OR SHRUB WHICH DIES WITHIN THE ONE YEAR MAINTENANCE PERIOD SHALL BE REPLACED BY THE CONTRACTOR. ANY PLANT MATERIAL WHICH IS STOLEN OR VANDALIZED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
14. ALL PLANTING SHALL BE AT THE LOCATIONS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT THE CORRECT GRADES, ALIGNMENT, AND TO THE INDICATED LAYOUT OF THE PLANTING BEDS. MINOR ADJUSTMENTS TO TREE LOCATION MAY BE NECESSARY DUE TO FIELD CONDITIONS AND FINAL GRADING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF MAJOR ADJUSTMENTS ARE REQUIRED. COORDINATE PLANT MATERIAL LOCATIONS WITH SITE UTILITIES. SEE CONSTRUCTION PLANS, GRADES AND GEOMETRICS PLANS, AND SIGNAL PLANS FOR EXISTING AND PROPOSED UTILITY LOCATIONS. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.
15. CONDITIONS DETRIMENTAL TO PLANTS: THE CONTRACTOR SHALL NOTIFY THE PROJECT REPRESENTATIVE IN WRITING OF ALL SOIL OR DRAINAGE CONDITIONS WHICH THE CONTRACTOR CONSIDERS DETRIMENTAL TO THE GROWTH OF PLANTS. HE SHALL STATE THE CONDITIONS AND SUBMIT A PROPOSAL FOR CORRECTING THE CONDITIONS, INCLUDING ANY CHANGE IN COST FOR REVIEW AND ACCEPTANCE BY THE PROJECT REPRESENTATIVE.
16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY AND PROPERLY MAINTAIN THE LANDSCAPED AREAS, WHICH RESPONSIBILITY SHALL INCLUDE WATERING, CLEANING OF WEEDS AND DEBRIS, PRUNING AND TRIMMING, REPLACEMENT OF DEAD OR DISEASED PLANTINGS AND FERTILIZING TO MAINTAIN HEALTHY GROWTH.
17. THE PLANTING PLAN IS FOR LANDSCAPING INFORMATION ONLY. PLEASE REFER TO THE CONSTRUCTION PLANS FOR ALL OTHER INFORMATION.
18. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED SHALL BE SEEDED AND MULCHED PER THE SPECIFICATIONS.
19. ALL LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION OF THIS LANDSCAPING PLAN ARE INCIDENTAL TO ITEM 911000 - PLANTINGS.

NOTE: BEDS TO BE MULCHED CONTINUOUSLY WITH 3" OF SHREDDED HARDWOOD MULCH.

SHRUB
N.T.S.

ADDENDA / REVISIONS

SCALE 0 10 20 30 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

LANDSCAPING PLAN

LS-01

SECTION	SHEET NO.
CEI	35

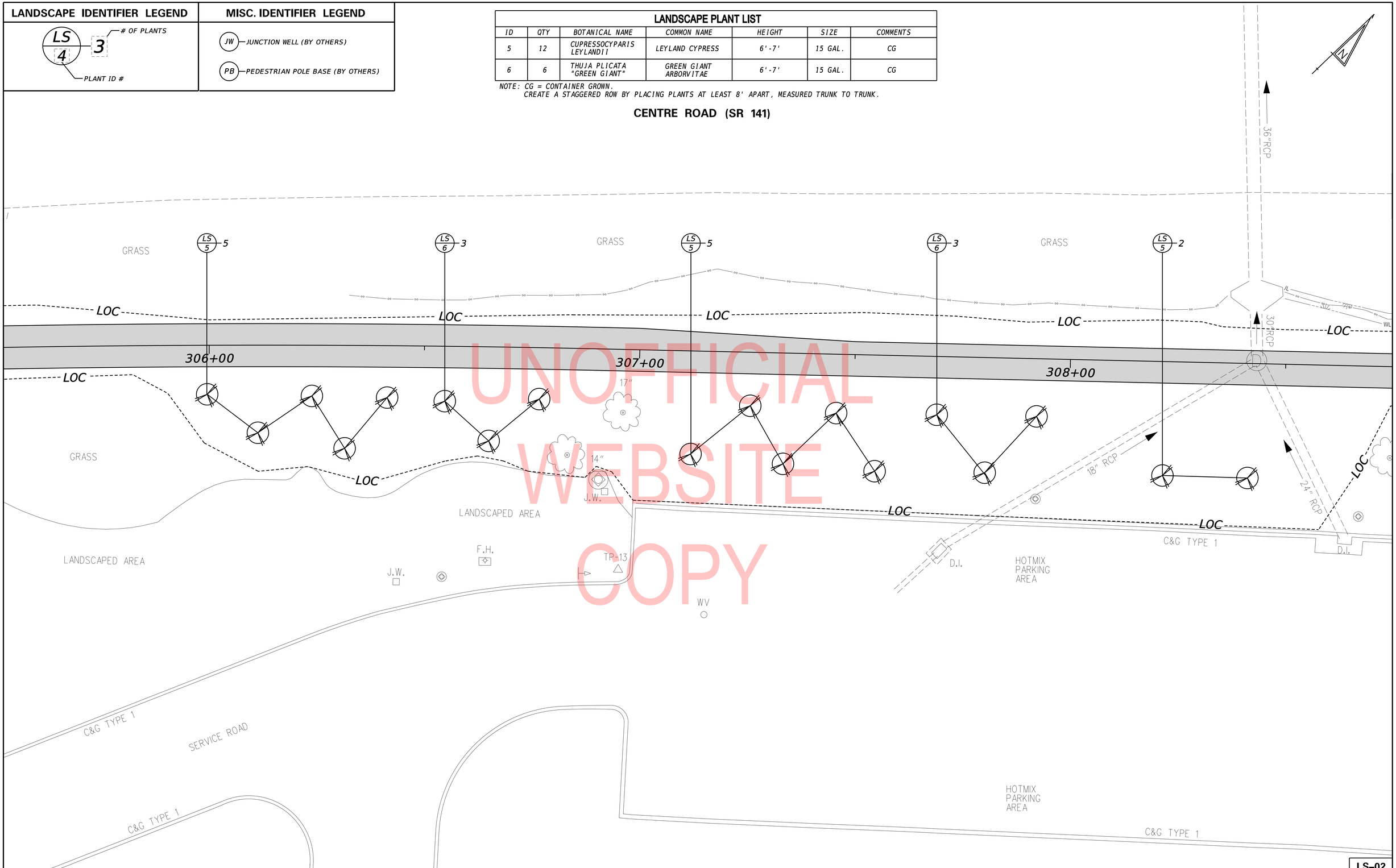
6/3/2019 \\WORKGROUP\LE\Snap\PROJECTS\55002.00 (DelDOT Agmt. 1730 TAP)\55002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\ls01_crp.dgn 3:38:59 PM

LANDSCAPE IDENTIFIER LEGEND	MISC. IDENTIFIER LEGEND
LS 4 — 3 (# OF PLANTS; PLANT ID #)	JW — JUNCTION WELL (BY OTHERS) PB — PEDESTRIAN POLE BASE (BY OTHERS)

LANDSCAPE PLANT LIST

ID	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	SIZE	COMMENTS
5	12	CUPRESSOCYPARIS LEYLANDII	LEYLAND CYPRESS	6'-7'	15 GAL.	CG
6	6	THUJA PLICATA "GREEN GIANT"	GREEN GIANT ARBORVITAE	6'-7'	15 GAL.	CG

NOTE: CG = CONTAINER GROWN.
CREATE A STAGGERED ROW BY PLACING PLANTS AT LEAST 8' APART, MEASURED TRUNK TO TRUNK.



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ADDENDA / REVISIONS	

SCALE: 0 10 20 30 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

LANDSCAPING PLAN

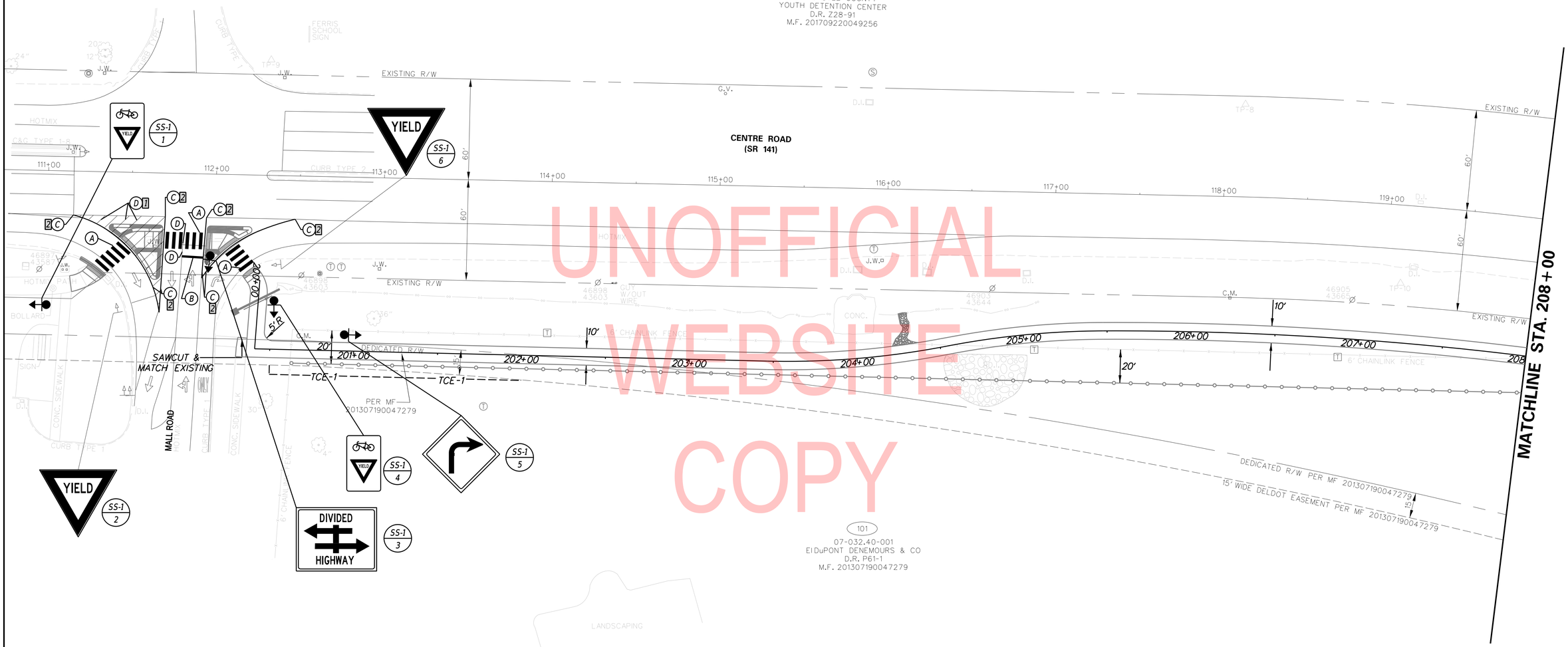
LS–02
SECTION
CEI
SHEET NO.
36

ADDITIONAL STRIPING NOTES

1. REMOVE EXISTING GORE STRIPING IN CHANNELIZING ISLAND
2. MATCH EXISTING STRIPING

PAVEMENT MARKINGS LEGEND

SYM	ITEM	QUANTITY
A	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, 24" SOLID WHITE SYMBOL/LEGEND, (ITEM 817002)	300 SF
B	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 817002)	20 SF
C	5" WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 817013)	250 LF
D	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 817013)	50 SF



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ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO. N/A
T201801102	DESIGNED BY: TMB
COUNTY	CHECKED BY: WFC
NEW CASTLE	

SIGNING, STRIPING, AND ITMS CONDUIT

SS-01

SECTION	SHEET NO.
CEI	37

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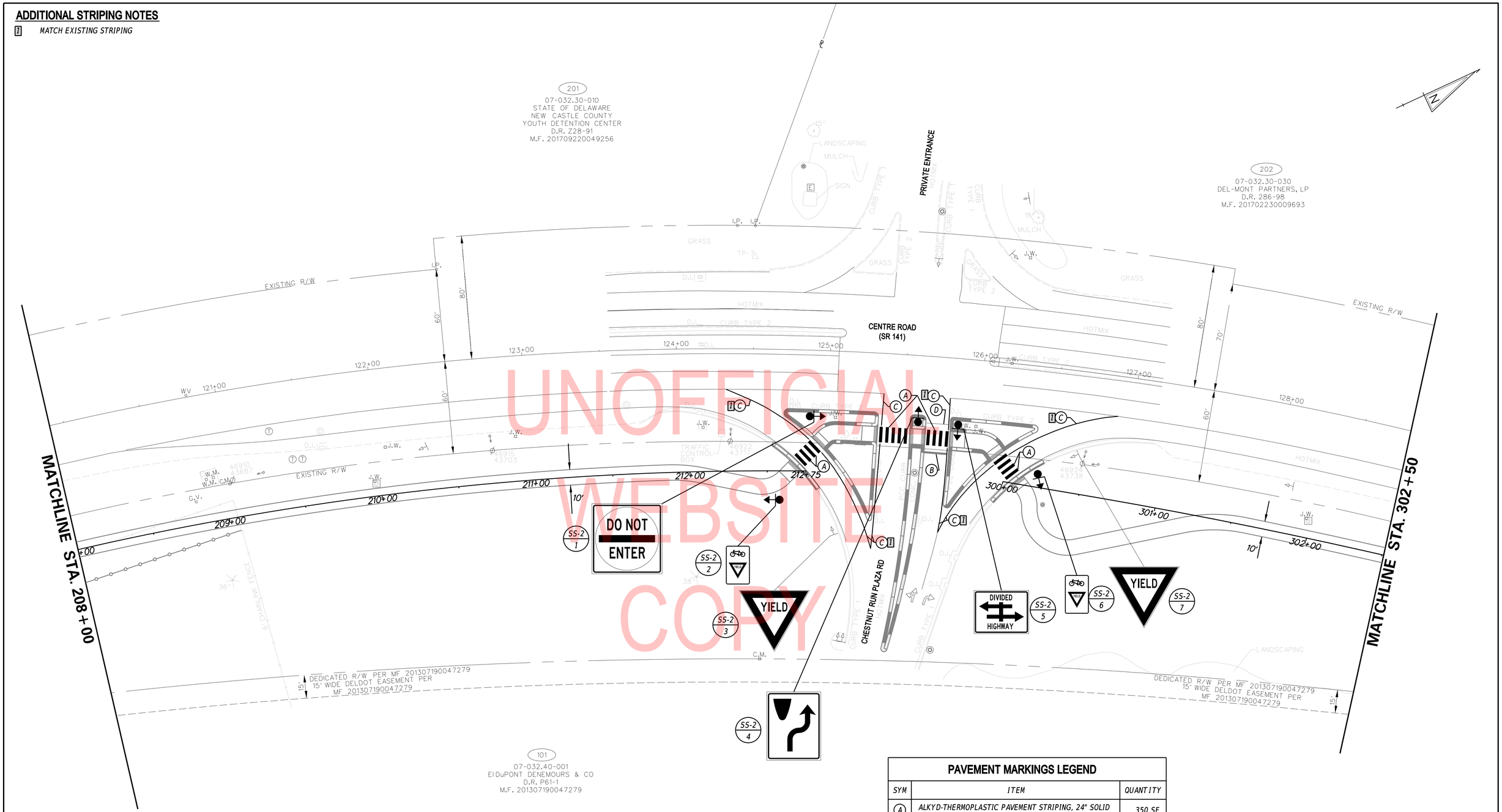
ADDITIONAL STRIPING NOTES

1 *MATCH EXISTING STRIPING*



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PAVEMENT MARKINGS LEGEND

SYM	ITEM	QUANTITY
A	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, 24" SOLID WHITE SYMBOL/LEGEND, (ITEM 817002)	350 SF
B	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 817002)	20 SF
C	5" WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 817013)	410 LF
D	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 817013)	20 SF

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

SIGNING, STRIPING, AND ITMS CONDUIT

SS-02
SECTION
CEI
SHEET NO.
38

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ITMS CONDUIT RUN SCHEDULE

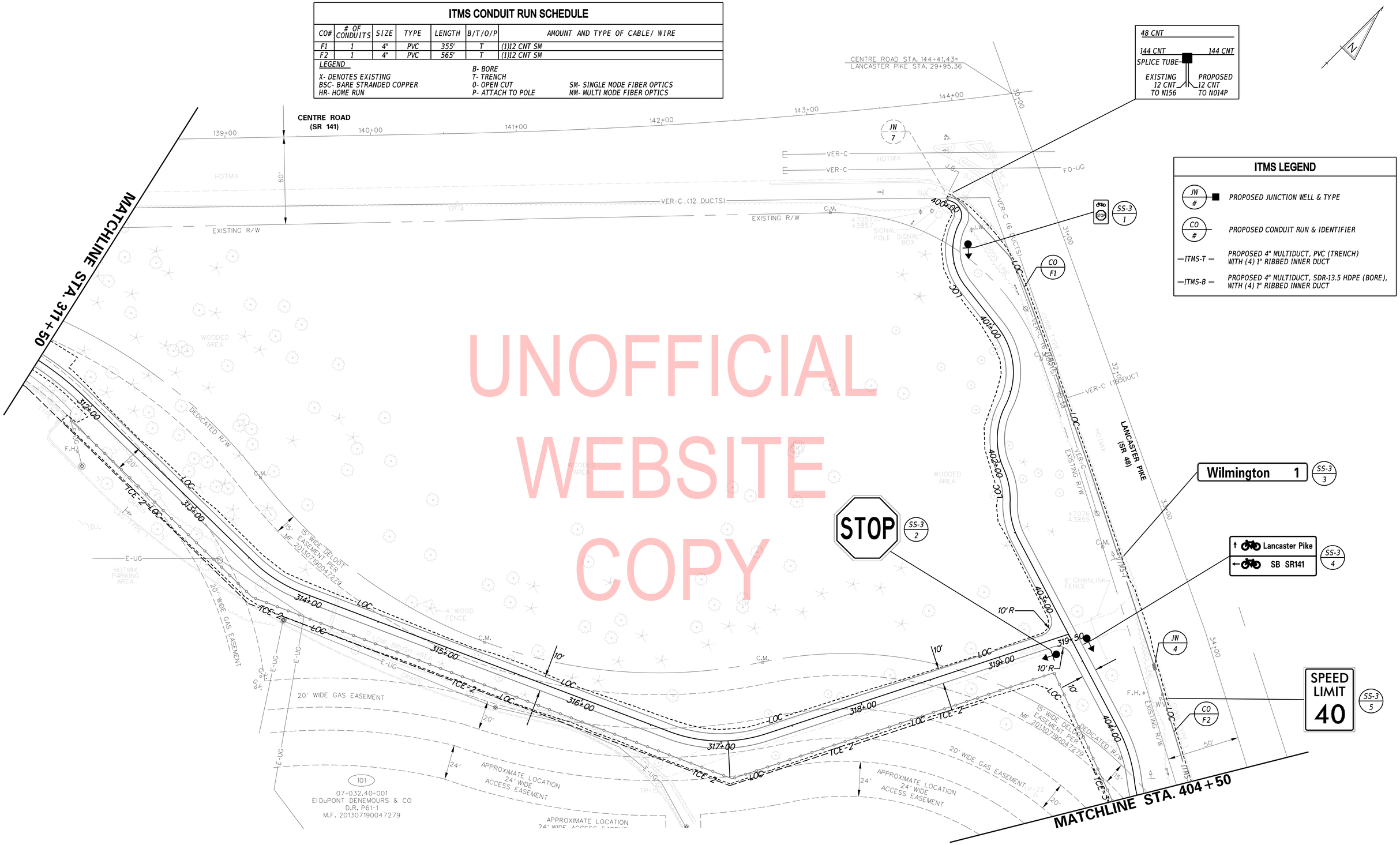
CO#	# OF CONDUITS	SIZE	TYPE	LENGTH	B/T/O/P	AMOUNT AND TYPE OF CABLE/ WIRE
F1	1	4"	PVC	355'	T	(1)12 CNT SM
F2	1	4"	PVC	565'	T	(1)12 CNT SM

LEGEND

X- DENOTES EXISTING
BSC- BARE STRANDED COPPER
HR- HOME RUN

B- BORE
T- TRENCH
O- OPEN CUT
P- ATTACH TO POLE

SM- SINGLE MODE FIBER OPTICS
MM- MULTI MODE FIBER OPTICS



ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY	CHECKED BY: WFC	
NEW CASTLE		

SIGNING, STRIPING, AND ITMS CONDUIT

SS-03
SECTION
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SHEET NO.
39

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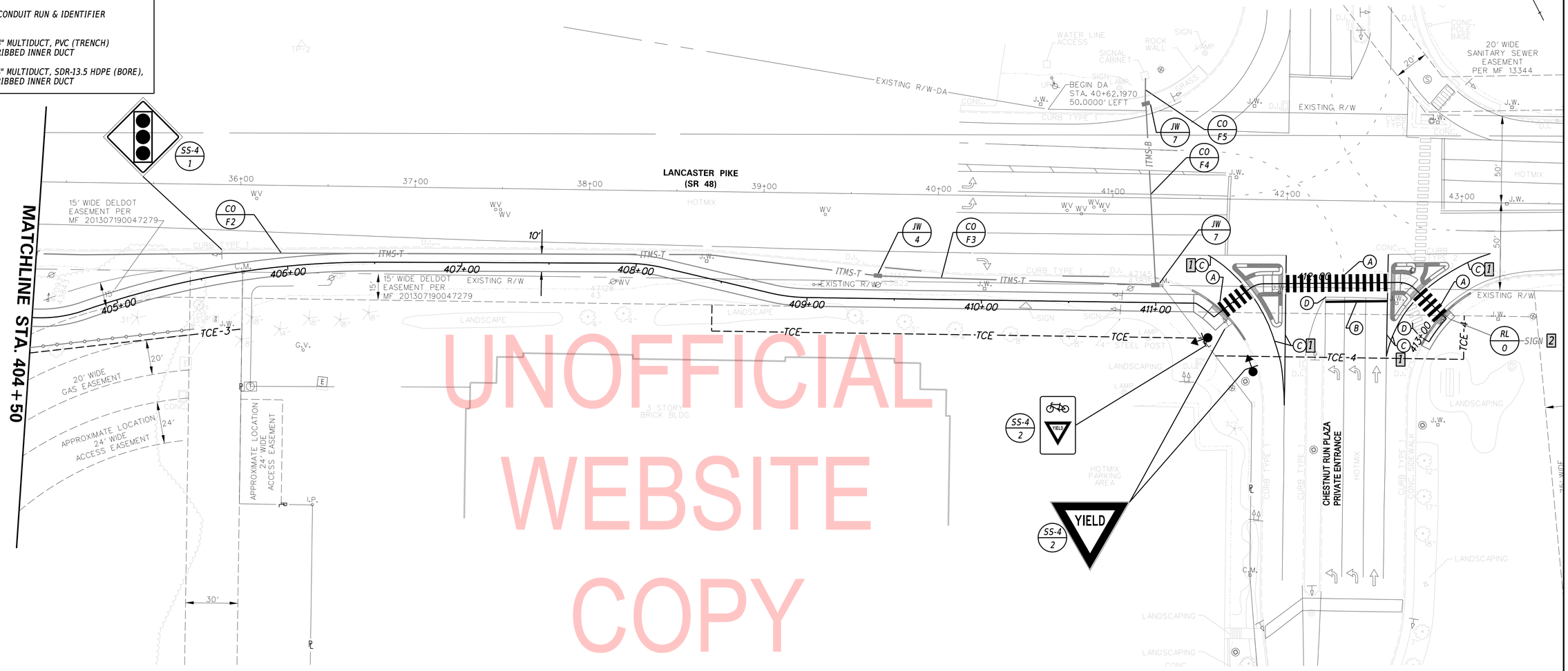
ITMS LEGEND

JW #	PROPOSED JUNCTION WELL & TYPE
CO #	PROPOSED CONDUIT RUN & IDENTIFIER
—ITMS-T —	PROPOSED 4" MULTIDUCT, PVC (TRENCH) WITH (4) 1" RIBBED INNER DUCT
—ITMS-B —	PROPOSED 4" MULTIDUCT, SDR-13.5 HDPE (BORE), WITH (4) 1" RIBBED INNER DUCT

ADDITIONAL STRIPING NOTES

1. MATCH EXISTING STRIPING
2. SIGN TO BE REPLACED WITH GUARDRAIL REPLACE PRIOR TO START OF CONSTRUCTION.



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PAVEMENT MARKINGS LEGEND

SYM	ITEM	QUANTITY
A	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, 24" SOLID WHITE SYMBOL/LEGEND, (ITEM 817002)	350 SF
B	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 817002)	50 SF
C	5" WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 817013)	280 LF
D	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 817013)	110 SF

ITMS CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	TYPE	LENGTH	B/T/O/P	AMOUNT AND TYPE OF CABLE/ WIRE
F3	1	4"	PVC	160'	T	(1)12 CNT SM
F4	1	4"	HDPE	115'	B	(1)12 CNT SM
F5	1	2.5"	PVC	15'	T	(1)12 CNT SM

LEGEND

X- DENOTES EXISTING
BSC- BARE STRANDED COPPER
HR- HOME RUN
B- BORE
T- TRENCH
O- OPEN CUT
P- ATTACH TO POLE
SM- SINGLE MODE FIBER OPTICS
MM- MULTI MODE FIBER OPTICS

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

SIGNING, STRIPING, AND ITMS CONDUIT

SECTION
CEI
SHEET NO.
40

SS-04

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PERMANENT SIGN SCHEDULE

SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	SIGN AREA (SF)	ITEM 819018 SINGLE POST (EACH)			ITEM 819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS (SF)			POST INSTALLATION TYPE	Code X11 12' Post (W/ Basepost) (EACH)	ITEM 819016 4" HOLE, 0-6" (EACH)	ITEM 819017 4" HOLE, >6" (EACH)	REMARKS
								SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL					
SS-1	1	SR1-17-DE	1	YIELD (shared-use path only)	24	42	7.0	NEW		1				SOIL	1			
SS-1	2	R1-2(36)	1	YIELD	36	36		REMAIN										
SS-1	3	R6-3(30)	1	DIVIDED HIGHWAY CROSSING (4 - Legged Intersection) - 30x24	30	24	5.0	NEW		1				NEW CONCRETE	1			
SS-1	4	SR1-17-DE	1	YIELD (shared-use path only)	24	42	7.0	NEW		1				SOIL	1			
SS-1	5	W1-1_R(18)	1	TURN (Right) - 18x18	18	18	2.3	NEW		1				SOIL	1			
SS-1	6	R1-2(36)	1	YIELD	36	36		REMAIN										
SS-2	1	R5-1(36)	1	DO NOT ENTER - 36x36	36	36	9.0	NEW		1				NEW CONCRETE	1			
SS-2	2	SR1-17-DE	1	YIELD (shared-use path only)	24	42	7.0	NEW		1				SOIL	1			
SS-2	3	R1-2(30)	1	YIELD	30	30		REMAIN										
SS-2	4	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	24	30	5.0	NEW		1				NEW CONCRETE	1			
SS-2	5	R6-3(30)	1	DIVIDED HIGHWAY CROSSING (4 - Legged Intersection) - 30x24	30	24	5.0	NEW		1				NEW CONCRETE	1			
SS-2	6	SR1-17-DE	1	YIELD (shared-use path only)	24	42	7.0	NEW		1				SOIL	1			
SS-2	7	R1-2(36)	1	YIELD	36	36		REMAIN										
SS-3	1	SR1-17-DE	1	YIELD (shared-use path only)	24	42	7.0	NEW		1				SOIL	1			
SS-3	2	R1-1(18)	1	STOP	18	18	2.3	NEW		1				SOIL	1			
SS-3	3	D2-1	1	DISTANCE (1 Line)	66	18	8.3				RENEW	8.3	8.3	SOIL	2			"Wilmington 1"
SS-3	4	D1-2c(12-B)	1	BICYCLE DESTINATION (2 Line)	24	12	2.0	NEW		1				SOIL	1			" ↑ Lancaster Pike ← SR SR141 "
SS-3	5	R2-1-40(30)	1	SPEED LIMIT (40 MPH - 30x36)	30	36	7.5	RENEW	1	1				SOIL	1			
SS-4	1	W3-3(30)	1	SIGNAL AHEAD (Symbol) - 36x36	36	36	9.0	RENEW	1	1				SOIL	1			
SS-4	2	SR1-17-DE	1	YIELD (shared-use path only)	24	42	7.0	NEW		1				SOIL	1			
SS-4	3	R1-2(36)	1	YIELD	36	36		REPOSITION	1	1				SOIL				
PAGE TOTALS							95		3	16		8	8		17	0	0	

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ADDENDA / REVISIONS	N.T.S.	CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS	CONTRACT T201801102	BRIDGE NO. N/A	SIGN SCHEDULE	SS-05
			COUNTY NEW CASTLE	DESIGNED BY: TMB		SECTION CEI
				CHECKED BY: WFC		SHEET NO. 41

ADDITIONAL SIGNAL NOTES

3. CONTRACTOR SHALL INSTALL COUNTDOWN PEDESTRIAN SIGNS (R10-3E) PER STANDARD SPECFICATION #837010. PROPOSED PEDESTRIAN SIGNAL SHALL BE COUNTDOWN TYPE.

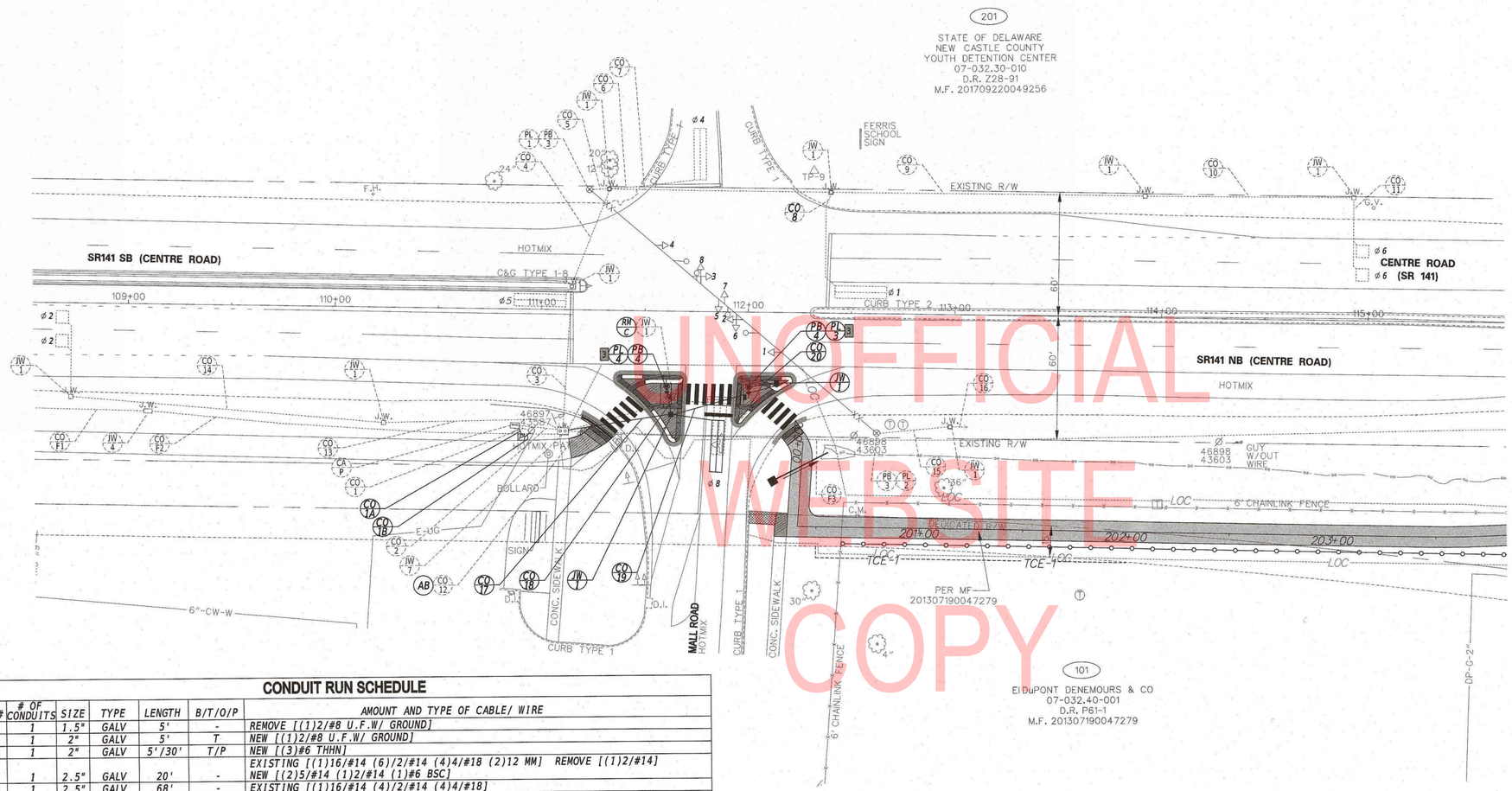
4. CONTRACTOR SHALL REFER TO CONSTRUCTION PLAN SHEETS FOR CURB RAMP SLOPES AND GRADES

POLE SCHEDULE

POLE #	POLE TYPE	HEIGHT	MATERIAL
1X	STRAIN	28'-0"	STEEL
2X	STRAIN	28'-0"	STEEL
3	PEDESTAL	10'-0"	ALUMINUM
4	PEDESTAL	10'-0"	ALUMINUM

X- DENOTES EXISTING

SR141 (CENTRE ROAD) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION



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CONDUIT RUN SCHEDULE

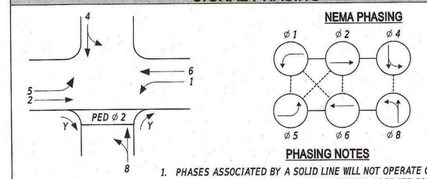
CO#	# OF CONDUITS	SIZE	TYPE	LENGTH	B/T/O/P	AMOUNT AND TYPE OF CABLE/ WIRE
X1	1	1.5"	GALV	5'	-	REMOVE [(1)2/#8 U.F.W/ GROUND]
1A	1	2"	GALV	5'	T	NEW [(1)2/#8 U.F.W/ GROUND]
1B	1	2"	GALV	5'/30'	T/P	NEW [(3)#6 THHN]
X2	1	2.5"	GALV	20'	-	EXISTING [(1)16/#14 (6)/2/#14 (4)4/#18 (2)12 MM] REMOVE [(1)2/#14] NEW [(2)5/#14 (1)2/#14 (1)#6 BSC]
X3	1	2.5"	GALV	68'	-	EXISTING [(1)16/#14 (4)/2/#14 (4)4/#18]
X4	1	2.5"	GALV	49'	-	EXISTING [(1)16/#14 (3)/2/#14 (4)4/#18]
X5	1	2.5"	GALV	7'	-	EXISTING [(1)16/#14 (4)4/#18]
X6	1	1.5"	GALV	14'	-	EXISTING [(2)1/#14]
X7	1	2.5"	GALV	106'	-	EXISTING [(3)1/#14]
X8	1	1"	FLEX	6'	-	EXISTING [(2)1/#14]
X9	1	2.5"	GALV	150'	-	EXISTING [(1)1/#14]
X10	1	2.5"	GALV	99'	-	EXISTING [(1)2/#14]
X11	1	1.5"	GALV	9'	-	EXISTING [(2)1/#14]
X12	1	2.5"	GALV	52'	-	REMOVE [(1)2/#14]
X13	1	2.5"	GALV	84'	-	EXISTING [(1)2/#14]
X14	1	2.5"	GALV	150'	-	EXISTING [(1)2/#14]
X15	1	2.5"	GALV	33'	-	EMPTY
X16	1	1.5"	GALV	UNK	-	EMPTY
17	1	4"	HDPE	50'	B	NEW [(1)2/#14 (2)5/#14 (1)#6 BSC]
18	1	3"	PVC	15'	T	NEW [(1)5/#14 (1)#6 BSC]
19	1	4"	HDPE	55'	B	NEW [(1)5/#14 (1)#6 BSC]
20	1	3"	PVC	15'	T	NEW [(1)5/#14 (1)#6 BSC]
XF1	1	4"	HDPE	400'	-/-	EXISTING [(1)144 SM (1)48 SM (1)12 MM]
XF2	1	4"	HDPE	200'	-/-	EXISTING [(1)144 SM (1)48 SM (1)12 MM]
XF3	1	4"	HDPE	400'	-/-	EXISTING [(1)144 SM (1)48 SM (1)12 MM]

LEGEND
X- DENOTES EXISTING
BSC- BARE STRANDED COPPER
HR- HOME RUN

B- BORE
T- TRENCH
O- OPEN CUT
P- ATTACH TO POLE

SM- SINGLE MODE FIBER OPTICS
MM- MULTIMODE FIBER OPTICS

SIGNAL PHASING



SIGNAL HEAD DIAGRAM

LEGEND

ABANDON	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	EXISTING POLE IDENTIFIER (# OF POLE)
EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	PROPOSED POLE IDENTIFIER (# OF POLE)
PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	REMOVE BY CONTRACTOR
EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	REMOVE BY OTHERS
PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	
LOOP DETECTOR, TYPE 1		
LOOP DETECTOR, TYPE 2		
LUMINAIRE		
MAST ARM		
MICROWAVE DETECTION		
OPTICOM RECEIVER		
OVERHEAD SIGNING		
PEDESTRIAN POLE/BASE		
PEDESTRIAN PUSHBUTTON		
PEDESTRIAN SIGNAL HEAD		
RIGHT-OF-WAY		R/W
SERVICE PEDESTAL		P
SIGNAL CABINET		
SIGNAL HEAD		
SIGNAL POLE/BASE		
CCTV CAMERA		
SPAN WIRE	XX	
UTILITY POLE		
VIDEO DETECTION		

GENERAL SIGNAL NOTES

1. ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
2. 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

CENTURY ENGINEERING
CONSULTING ENGINEERS, SURVEYORS
4134 N. DUPONT HWY.
DOVER, DELAWARE 19901
(302) 734-9188

4/11/19
DATE

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

BRIAN A. MARTIN REGISTERED No. 11947 DELAWARE PROFESSIONAL ENGINEER

SEAL

APPROVED FOR INSTALLATION

CHIEF TRAFFIC ENGINEER

4/15/19
DATE

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA
PEDESTRIAN IMPROVEMENTS

CONTRACT	T201801102
COUNTY	NEW CASTLE
PERMIT NO.	N074P
DESIGNED BY:	EBS (CEI)
CHECKED BY:	BAM (CEI)

SIGNAL PLAN
SR 141 AT
CHESTNUT RUN PLANT

SECTION	CEI
SHEET NO.	42

SG-01

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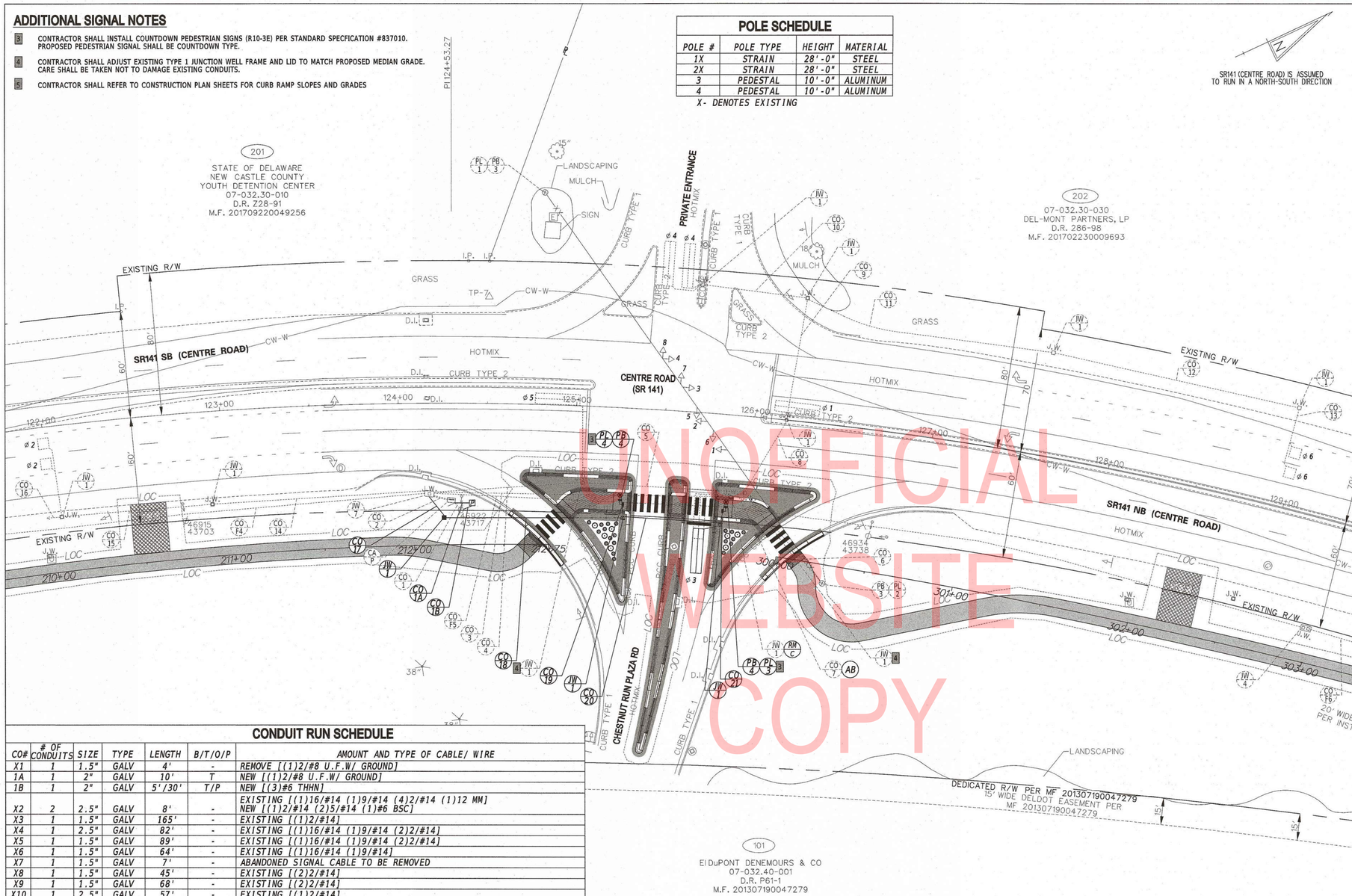
ADDITIONAL SIGNAL NOTES

3. CONTRACTOR SHALL INSTALL COUNTDOWN PEDESTRIAN SIGNS (R10-3E) PER STANDARD SPECFICATION #837010. PROPOSED PEDESTRIAN SIGNAL SHALL BE COUNTDOWN TYPE.
4. CONTRACTOR SHALL ADJUST EXISTING TYPE 1 JUNCTION WELL FRAME AND LID TO MATCH PROPOSED MEDIAN GRADE. CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING CONDUITS.
5. CONTRACTOR SHALL REFER TO CONSTRUCTION PLAN SHEETS FOR CURB RAMP SLOPES AND GRADES

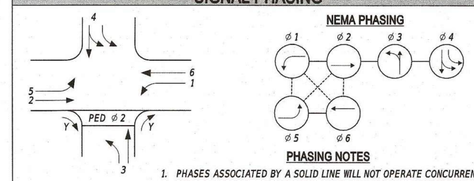
POLE SCHEDULE

POLE #	POLE TYPE	HEIGHT	MATERIAL
1X	STRAIN	28'-0"	STEEL
2X	STRAIN	28'-0"	STEEL
3	PEDESTAL	10'-0"	ALUMINUM
4	PEDESTAL	10'-0"	ALUMINUM

X- DENOTES EXISTING



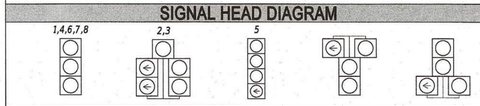
SIGNAL PHASING



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

AB	ABANDON	OH #	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
CA X	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	OH #	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
CA X	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	PB X	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
CO #	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	PB X	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
CO #	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	PL X	EXISTING POLE IDENTIFIER (# OF POLE)
IW X	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	PL X	PROPOSED POLE IDENTIFIER (# OF POLE)
JW X	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	RM C	REMOVE BY CONTRACTOR
MA XX	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	RM O	REMOVE BY OTHERS
MA XX	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	RM TC	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1		
LOOP DETECTOR, TYPE 2		
LUMINAIRE		
MAST ARM		
MICROWAVE DETECTION		
OPTICOM RECEIVER		
OVERHEAD SIGNING		
PEDESTRIAN POLE/BASE		
PEDESTRIAN PUSHBUTTON		
PEDESTRIAN SIGNAL HEAD		
RIGHT-OF-WAY		R/W
SERVICE PEDESTAL		P
SIGNAL CABINET		
SIGNAL HEAD		
SIGNAL POLE/BASE		
CCTV CAMERA		
SPAN WIRE	XX	
UTILITY POLE		
VIDEO DETECTION		

GENERAL SIGNAL NOTES

1. ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
2. 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.

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	TYPE	LENGTH	B/T/O/P	AMOUNT AND TYPE OF CABLE/ WIRE
X1	1	1.5"	GALV	4'	-	REMOVE [(1)2/#8 U.F.W/ GROUND]
1A	1	2"	GALV	10'	T	NEW [(1)2/#8 U.F.W/ GROUND]
1B	1	2"	GALV	5'/30'	T/P	NEW [(3)#6 THHN]
X2	2	2.5"	GALV	8'	-	EXISTING [(1)16/#14 (1)9/#14 (4)2/#14 (1)12 MM] NEW [(1)2/#14 (2)5/#14 (1)#6 BSC]
X3	1	1.5"	GALV	165'	-	EXISTING [(1)2/#14]
X4	1	2.5"	GALV	82'	-	EXISTING [(1)16/#14 (1)9/#14 (2)2/#14]
X5	1	1.5"	GALV	89'	-	EXISTING [(1)16/#14 (1)9/#14 (2)2/#14]
X6	1	1.5"	GALV	64'	-	EXISTING [(1)16/#14 (1)9/#14]
X7	1	1.5"	GALV	7'	-	ABANDONED SIGNAL CABLE TO BE REMOVED
X8	1	1.5"	GALV	45'	-	EXISTING [(2)2/#14]
X9	1	1.5"	GALV	68'	-	EXISTING [(2)2/#14]
X10	1	2.5"	GALV	57'	-	EXISTING [(1)2/#14]
X11	1	1.5"	GALV	140'	-	EXISTING [(1)2/#14]
X12	1	1.5"	GALV	140'	-	EXISTING [(1)2/#14]
X13	1	1.5"	GALV	7'	-	EXISTING [(2)1/#14]
X14	1	2.5"	GALV	118'	-	EXISTING [(1)2/#14]
X15	1	2.5"	GALV	82'	-	EXISTING [(1)2/#14]
X16	1	1.5"	GALV	UNK	-	EMPTY
17	1	4"	PVC	15'	T	NEW [(1)2/#14 (2)5/#14 (1)#6 BSC]
18	1	4"	HDPE	100'	B	NEW [(1)2/#14 (2)5/#14 (1)#6 BSC]
19	1	3"	PVC	10'	T	NEW [(1)5/#14 (1)#6 BSC]
20	1	4"	HDPE	55'	B	NEW [(1)2/#14 (1)5/#14 (1)#6 BSC]
21	1	3"	PVC	10'	T	NEW [(1)5/#14 (1)#6 BSC]
XF4	1	4"	HDPE	400'	-	EXISTING [(1)144 SM (1)48 SM (1)12 MM]
XF5	1	4"	HDPE	492'	-	EXISTING [(1)144 SM (1)48 SM (1)12 MM]
XF6	1	4"	HDPE	400'	-	EXISTING [(1)144 SM (1)48 SM (1)12 MM]

LEGEND
X- DENOTES EXISTING
BSC- BARE STRANDED COPPER
HR- HOME RUN
B- BORE
T- TRENCH
O- OPEN CUT
P- ATTACH TO POLE
SM- SINGLE MODE FIBER OPTICS
MM- MULTIMODE FIBER OPTICS

PREPARED BY

CENTURY ENGINEERING
CONSULTING ENGINEERS, SURVEYORS
4134 N. DUPONT HWY.
DOVER, DELAWARE 19901
(302) 734-9188

4/11/19
DATE

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

ROBERT A. MARTINO REGISTERED No. 11947 DELAWARE PROFESSIONAL ENGINEER

SEAL

APPROVED FOR INSTALLATION

CHIEF TRAFFIC ENGINEER

4/15/19
DATE

SG-02

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	T201801102
COUNTY	NEW CASTLE
PERMIT NO.	N073P
DESIGNED BY:	EBS (CEI)
CHECKED BY:	BAM (CEI)

SIGNAL PLAN SR 141 AT CHESTNUT RUN OFFICE

SECTION: CEI
SHEET NO. 43

4/10/2019
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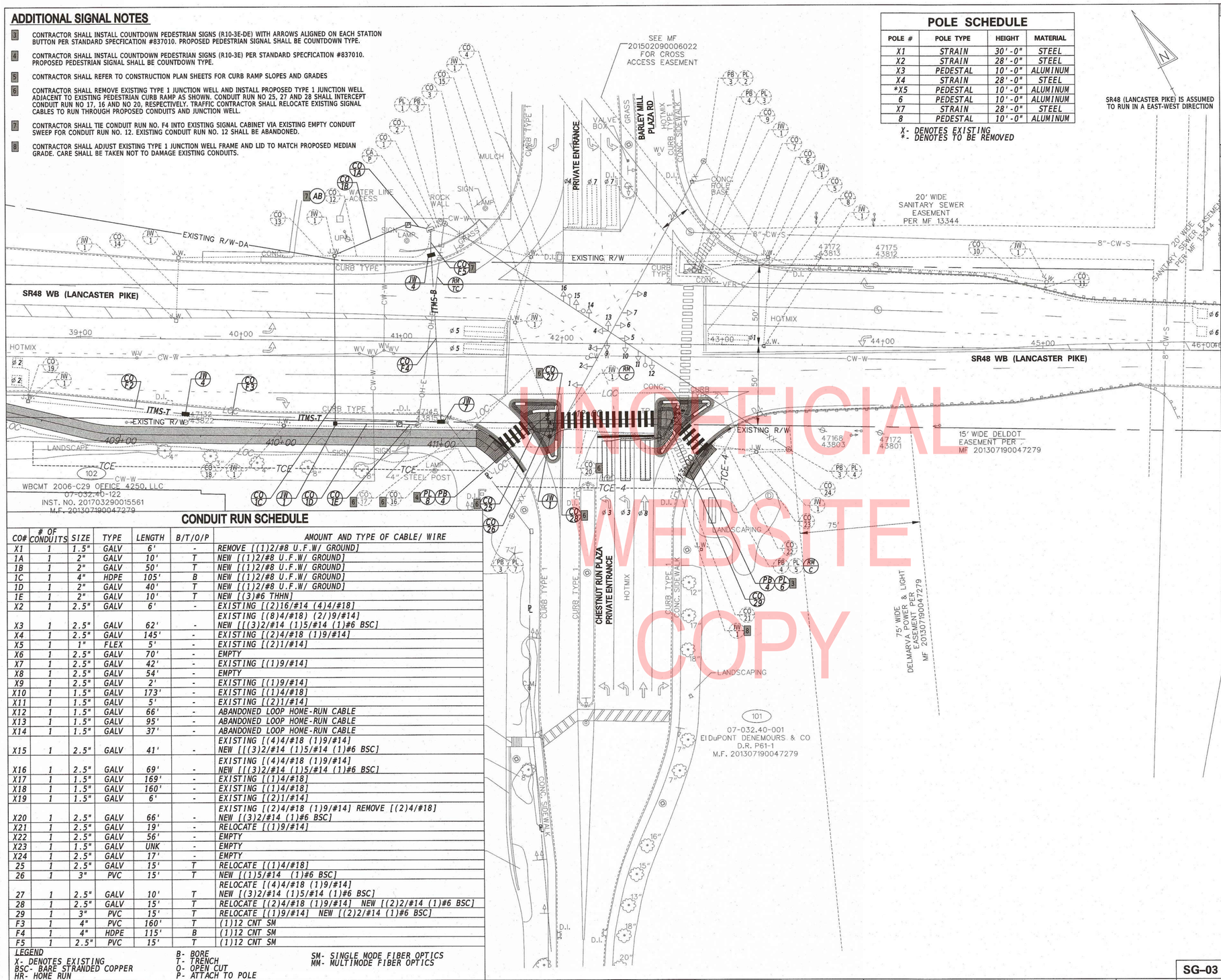
ADDITIONAL SIGNAL NOTES

3. CONTRACTOR SHALL INSTALL COUNTDOWN PEDESTRIAN SIGNS (R10-3E-DE) WITH ARROWS ALIGNED ON EACH STATION BUTTON PER STANDARD SPECFICATION #837010. PROPOSED PEDESTRIAN SIGNAL SHALL BE COUNTDOWN TYPE.
4. CONTRACTOR SHALL INSTALL COUNTDOWN PEDESTRIAN SIGNS (R10-3E) PER STANDARD SPECFICATION #837010. PROPOSED PEDESTRIAN SIGNAL SHALL BE COUNTDOWN TYPE.
5. CONTRACTOR SHALL REFER TO CONSTRUCTION PLAN SHEETS FOR CURB RAMP SLOPES AND GRADES
6. CONTRACTOR SHALL REMOVE EXISTING TYPE 1 JUNCTION WELL AND INSTALL PROPOSED TYPE 1 JUNCTION WELL ADJACENT TO EXISTING PEDESTRIAN CURB RAMP AS SHOWN. CONDUIT RUN NO 25, 27 AND 28 SHALL INTERCEPT CONDUIT RUN NO 17, 16 AND NO 20, RESPECTIVELY. TRAFFIC CONTRACTOR SHALL RELOCATE EXISTING SIGNAL CABLES TO RUN THROUGH PROPOSED CONDUITS AND JUNCTION WELL.
7. CONTRACTOR SHALL TIE CONDUIT RUN NO. F4 INTO EXISTING SIGNAL CABINET VIA EXISTING EMPTY CONDUIT SWEEP FOR CONDUIT RUN NO. 12. EXISTING CONDUIT RUN NO. 12 SHALL BE ABANDONED.
8. CONTRACTOR SHALL ADJUST EXISTING TYPE 1 JUNCTION WELL FRAME AND LID TO MATCH PROPOSED MEDIAN GRADE. CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING CONDUITS.

POLE SCHEDULE

POLE #	POLE TYPE	HEIGHT	MATERIAL
X1	STRAIN	30'-0"	STEEL
X2	STRAIN	28'-0"	STEEL
X3	PEDESTAL	10'-0"	ALUMINUM
X4	STRAIN	28'-0"	STEEL
*X5	PEDESTAL	10'-0"	ALUMINUM
6	PEDESTAL	10'-0"	ALUMINUM
X7	STRAIN	28'-0"	STEEL
8	PEDESTAL	10'-0"	ALUMINUM

X- DENOTES EXISTING
*- DENOTES TO BE REMOVED



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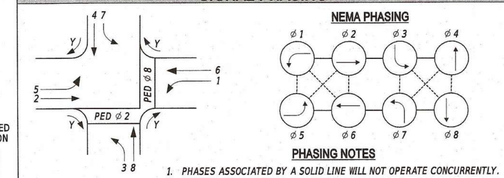
CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	TYPE	LENGTH	B/T/O/P	AMOUNT AND TYPE OF CABLE/ WIRE
X1	1	1.5"	GALV	6'	-	REMOVE [(1)2/#8 U.F.W/ GROUND]
1A	1	2"	GALV	10'	T	NEW [(1)2/#8 U.F.W/ GROUND]
1B	1	2"	GALV	50'	T	NEW [(1)2/#8 U.F.W/ GROUND]
1C	1	4"	HDPE	105'	B	NEW [(1)2/#8 U.F.W/ GROUND]
1D	1	2"	GALV	40'	T	NEW [(1)2/#8 U.F.W/ GROUND]
1E	1	2"	GALV	10'	T	NEW [(3)#6 THHN]
X2	1	2.5"	GALV	6'	-	EXISTING [(2)16/#14 (4)4/#18]
X3	1	2.5"	GALV	62'	-	EXISTING [(8)4/#18) (2/)9/#14] NEW [[(3)2/#14 (1)5/#14 (1)#6 BSC]
X4	1	2.5"	GALV	145'	-	EXISTING [(2)4/#18 (1)9/#14]
X5	1	1"	FLEX	5'	-	EXISTING [(2)1/#14]
X6	1	2.5"	GALV	70'	-	EMPTY
X7	1	2.5"	GALV	42'	-	EXISTING [(1)9/#14]
X8	1	2.5"	GALV	54'	-	EMPTY
X9	1	2.5"	GALV	2'	-	EXISTING [(1)9/#14]
X10	1	1.5"	GALV	173'	-	EXISTING [(1)4/#18]
X11	1	1.5"	GALV	5'	-	EXISTING [(2)1/#14]
X12	1	1.5"	GALV	66'	-	ABANDONED LOOP HOME-RUN CABLE
X13	1	1.5"	GALV	95'	-	ABANDONED LOOP HOME-RUN CABLE
X14	1	1.5"	GALV	37'	-	ABANDONED LOOP HOME-RUN CABLE
X15	1	2.5"	GALV	41'	-	EXISTING [(4)4/#18 (1)9/#14] NEW [[(3)2/#14 (1)5/#14 (1)#6 BSC]
X16	1	2.5"	GALV	69'	-	EXISTING [(4)4/#18 (1)9/#14] NEW [[(3)2/#14 (1)5/#14 (1)#6 BSC]
X17	1	1.5"	GALV	169'	-	EXISTING [(1)4/#18]
X18	1	1.5"	GALV	160'	-	EXISTING [(1)4/#18]
X19	1	1.5"	GALV	6'	-	EXISTING [(2)1/#14]
X20	1	2.5"	GALV	66'	-	EXISTING [(2)4/#18 (1)9/#14] REMOVE [(2)4/#18] NEW [(3)2/#14 (1)#6 BSC]
X21	1	2.5"	GALV	19'	-	RELOCATE [(1)9/#14]
X22	1	2.5"	GALV	56'	-	EMPTY
X23	1	1.5"	GALV	UNK	-	EMPTY
X24	1	2.5"	GALV	17'	-	EMPTY
25	1	2.5"	GALV	15'	T	RELOCATE [(1)4/#18]
26	1	3"	PVC	15'	T	NEW [(1)5/#14 (1)#6 BSC]
27	1	2.5"	GALV	10'	T	RELOCATE [(4)4/#18 (1)9/#14] NEW [(3)2/#14 (1)5/#14 (1)#6 BSC]
28	1	2.5"	GALV	15'	T	RELOCATE [(2)4/#18 (1)9/#14] NEW [(2)2/#14 (1)#6 BSC]
29	1	3"	PVC	15'	T	RELOCATE [(1)9/#14] NEW [(2)2/#14 (1)#6 BSC]
F3	1	4"	PVC	160'	T	(1)12 CNT SM
F4	1	4"	HDPE	115'	B	(1)12 CNT SM
F5	1	2.5"	PVC	15'	T	(1)12 CNT SM

LEGEND
X- DENOTES EXISTING
BSC- BARE STRANDED COPPER
HR- HOME RUN
B- BORE
T- TRENCH
O- OPEN CUT
P- ATTACH TO POLE
SM- SINGLE MODE FIBER OPTICS
MM- MULTIMODE FIBER OPTICS

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

AB	ABANDON	OH/#	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
CA/X	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	OH/#	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
CA/X	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	PB/X	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
CO/#	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	PB/X	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
CO/#	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	PL/X	EXISTING POLE IDENTIFIER (# OF POLE)
JW/X	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	PL/X	PROPOSED POLE IDENTIFIER (# OF POLE)
JW/X	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	RM/C	REMOVE BY CONTRACTOR
MA/XX	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	RM/O	REMOVE BY OTHERS
MA/XX	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	RM/TC	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	
LOOP DETECTOR, TYPE 1		
LOOP DETECTOR, TYPE 2		
LUMINAIRE		
MAST ARM		
MICROWAVE DETECTION		
OPTICOM RECEIVER		
OVERHEAD SIGNING		
PEDESTRIAN POLE/BASE		
PEDESTRIAN PUSHBUTTON		
PEDESTRIAN SIGNAL HEAD		
RIGHT-OF-WAY		R/W
SERVICE PEDESTAL		P
SIGNAL CABINET		
SIGNAL HEAD		
SIGNAL POLE/BASE		
CCTV CAMERA		
SPAN WIRE	XX	
UTILITY POLE		
VIDEO DETECTION		

GENERAL SIGNAL NOTES

1. ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
2. 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

CENTURY ENGINEERING
CONSULTING ENGINEERS, SURVEYORS
4134 N. DUPONT HWY.
DOVER, DELAWARE 19901
(302) 734-9188

THIS SEAL APPLIES TO ALL SHEETS BEARING THE "CEI" SECTION DESIGNATION.
DATE 4/11/19

ROBERT A. MARTINEZ III ENGINEER No. 11947 DELAWARE PROFESSIONAL ENGINEER
SEAL

APPROVED FOR INSTALLATION
CHIEF TRAFFIC ENGINEER
DATE 4/15/19

SG-03

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	PERMIT NO.	N041P	SECTION
T201801102	DESIGNED BY:	EBS (CEI)	CEI
COUNTY			SHEET NO.
NEW CASTLE	CHECKED BY:	BAM (CEI)	44

SIGNAL PLAN
SR 48 AT
BARLEY MILL PLAZA

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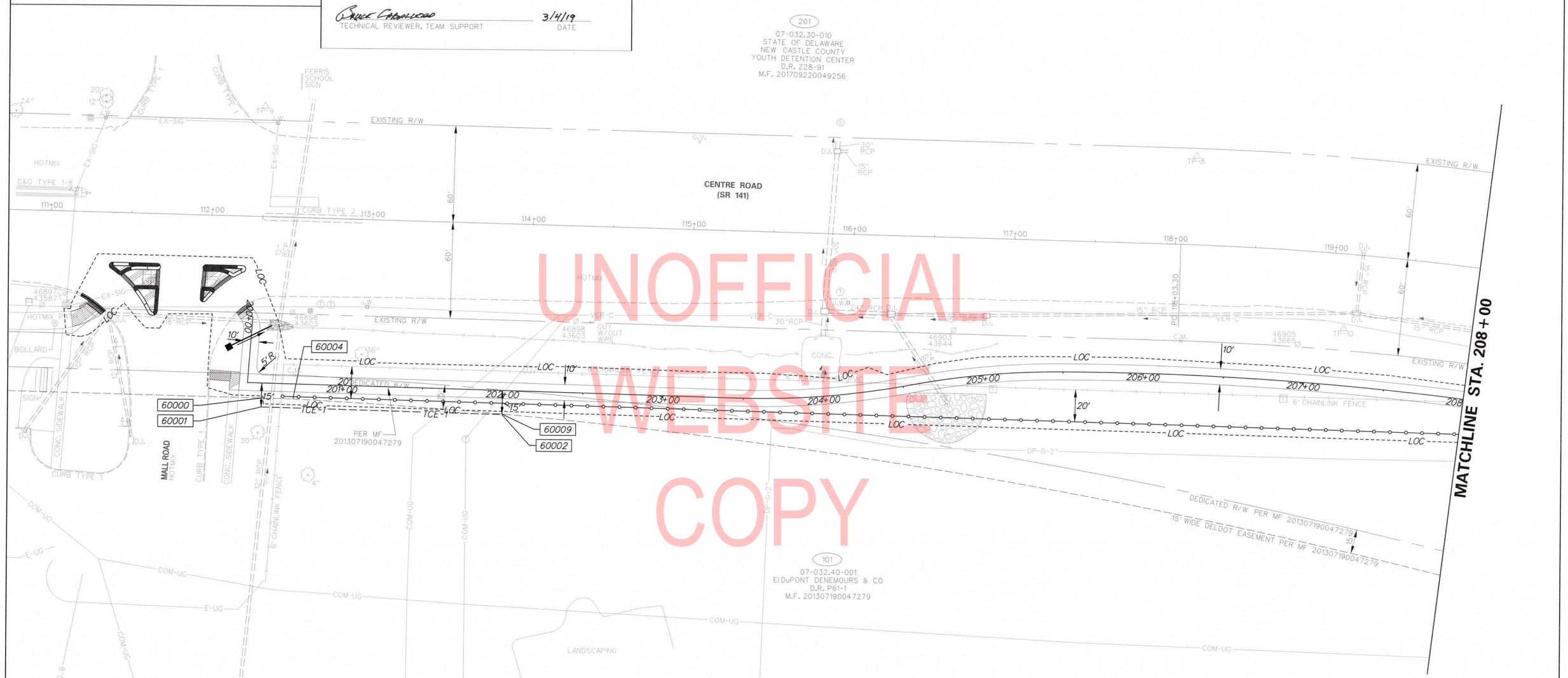
PREPARED BY
THE CONSULTING FIRM OF
CENTURY ENGINEERING
CONSULTING ENGINEERS, SURVEYORS
4134 N. DUPONT HWY.
DOVER, DELAWARE 19901
(302) 734-9188

RECOMMENDED — DATE 3/5/19

THOMAS M. BANKS LICENSED No. 13701 DELAWARE PROFESSIONAL ENGINEER

RECOMMENDED AS TO ENGINEERING NEED

MANAGER, ROW ENGINEERING	DATE 3/5/19
PROGRAM MANAGER, TEAM SUPPORT	DATE 3/5/19
TECHNICAL REVIEWER, TEAM SUPPORT	DATE 3/4/19



UNOFFICIAL WEBSITE COPY

NOTE:
STORMWATER MANAGEMENT FACILITIES, INCLUDING BEST MANAGEMENT PRACTICE (BMP) FACILITIES, MAY BE PRESENT WITHIN THE LIMITS OF THIS PROJECT. PLEASE CONSULT THE CONSTRUCTION PLANS FOR THIS PROJECT TO DETERMINE THE TYPE AND LOCATION OF THESE FACILITIES.

ADDENDA / REVISIONS

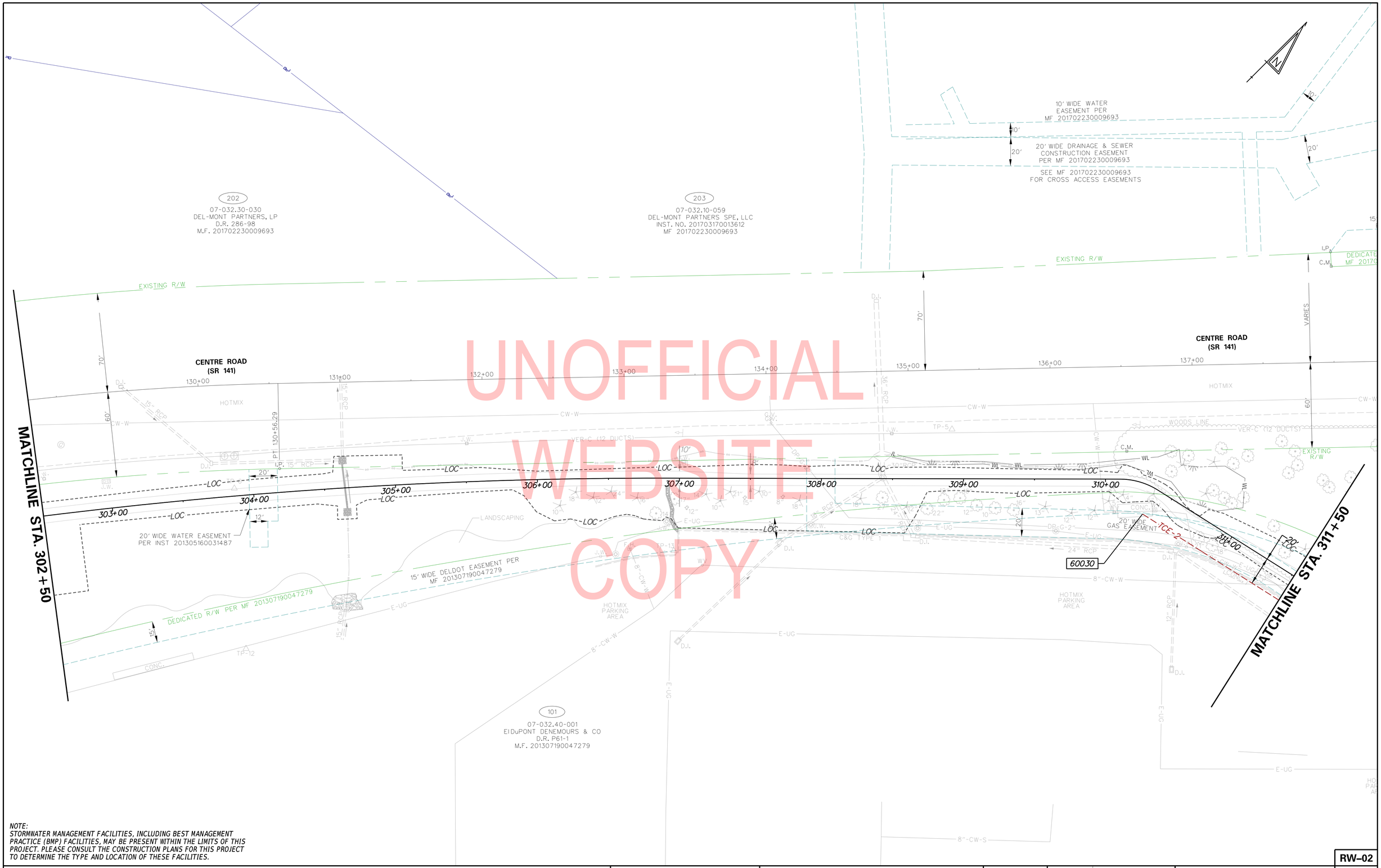
SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT T201801102	BRIDGE NO. N/A	**RIGHT-OF-WAY PLAN**
COUNTY NEW CASTLE	DESIGNED BY: TMB	
	CHECKED BY: WFC	

RW-01
SECTION CEI
SHEET NO. 45

2/27/2019 3:28:26 PM \\VMDFILE\Snap\PROJECTS\155002.00 (DelDOT Agmt. 1730 TAP)\155002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\rw01_crp.dgn



UNOFFICIAL WEBSITE COPY

NOTE:
STORMWATER MANAGEMENT FACILITIES, INCLUDING BEST MANAGEMENT PRACTICE (BMP) FACILITIES, MAY BE PRESENT WITHIN THE LIMITS OF THIS PROJECT. PLEASE CONSULT THE CONSTRUCTION PLANS FOR THIS PROJECT TO DETERMINE THE TYPE AND LOCATION OF THESE FACILITIES.

ADDENDA / REVISIONS	

SCALE: 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

RIGHT-OF-WAY PLAN

RW-02
SECTION
CEI
SHEET NO.
46

6/3/2019
\\WDPE\E\Snap\PROJECTS\155002.00 (DelDOT Agmt. 1730 TAP)\155002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\rw02_crp.dgn
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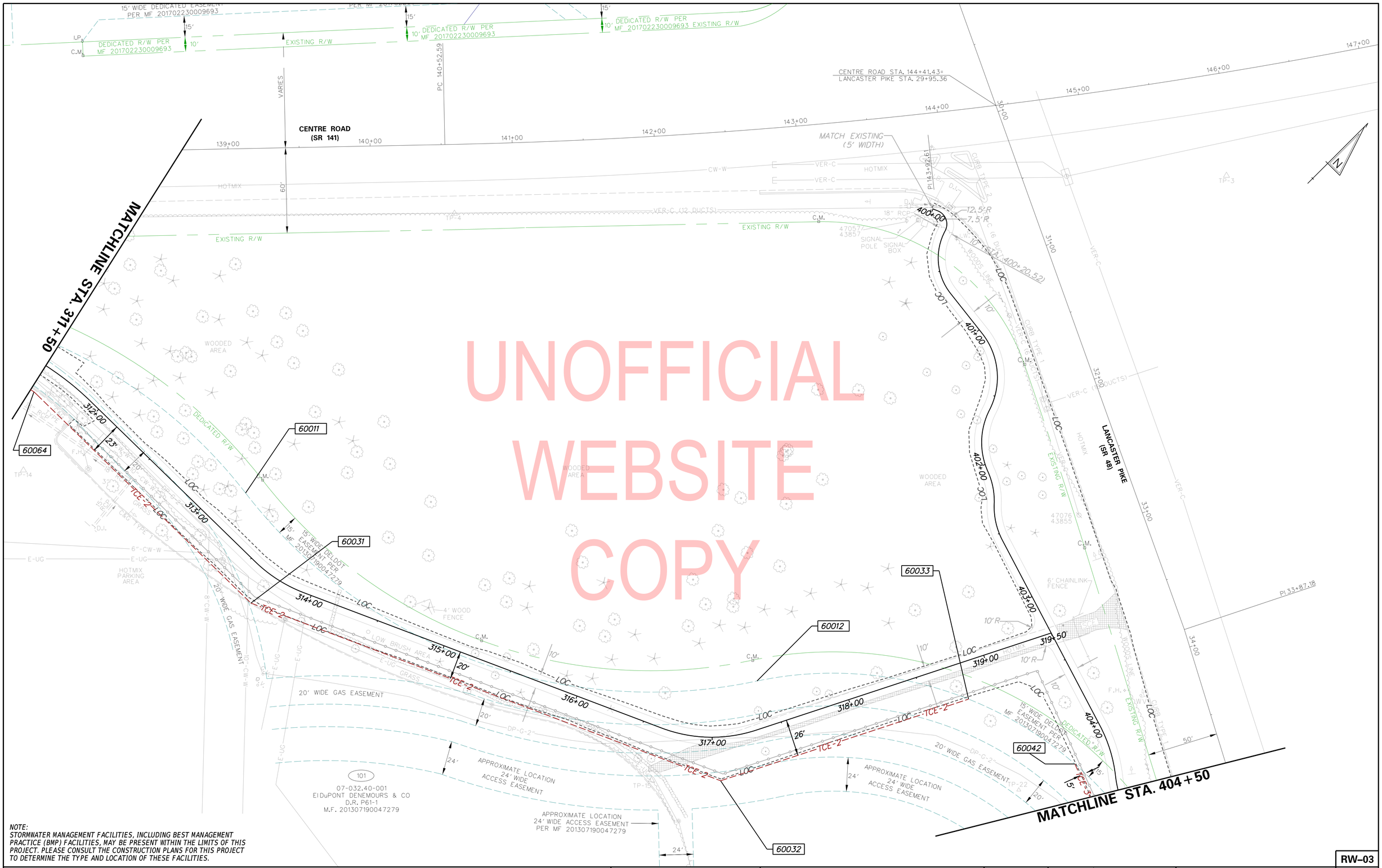


UNOFFICIAL WEBSITE COPY

NOTE:
STORMWATER MANAGEMENT FACILITIES, INCLUDING BEST MANAGEMENT PRACTICE (BMP) FACILITIES, MAY BE PRESENT WITHIN THE LIMITS OF THIS PROJECT. PLEASE CONSULT THE CONSTRUCTION PLANS FOR THIS PROJECT TO DETERMINE THE TYPE AND LOCATION OF THESE FACILITIES.

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

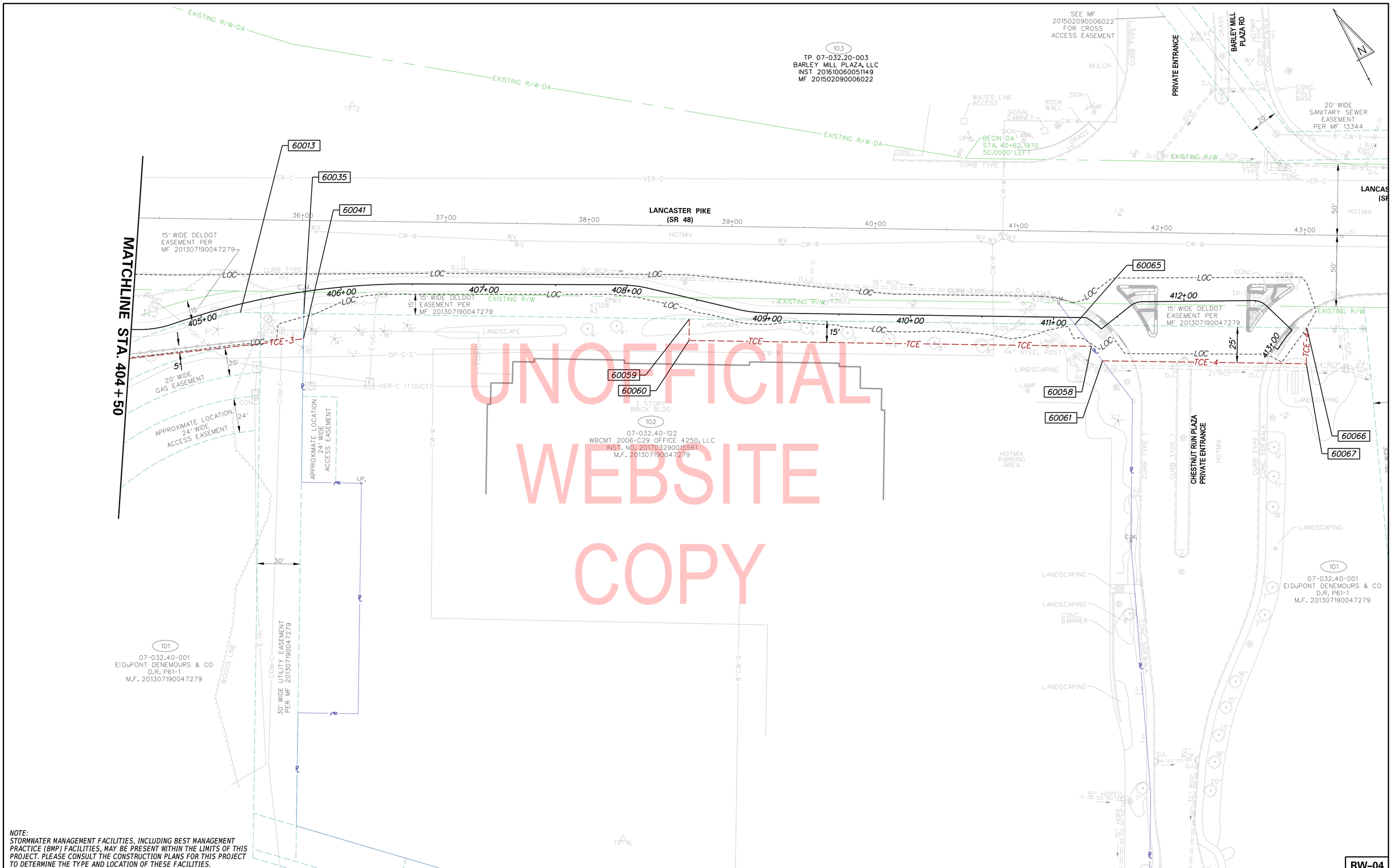
RIGHT-OF-WAY PLAN

RW-03

SECTION CEI

SHEET NO. 47

6/3/2019 3:37:14 PM
\\DOTDFS\ES\Snap\PROJECTS\155002.00 (DelDOT Agmt. 1730 TAP)\155002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\rw03_crp.dgn



UNOFFICIAL WEBSITE COPY

NOTE:
STORMWATER MANAGEMENT FACILITIES, INCLUDING BEST MANAGEMENT PRACTICE (BMP) FACILITIES, MAY BE PRESENT WITHIN THE LIMITS OF THIS PROJECT. PLEASE CONSULT THE CONSTRUCTION PLANS FOR THIS PROJECT TO DETERMINE THE TYPE AND LOCATION OF THESE FACILITIES.

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T201801102	DESIGNED BY: TMB	
COUNTY		
NEW CASTLE	CHECKED BY: WFC	

RIGHT-OF-WAY PLAN

RW-04

SECTION: CEI

SHEET NO. 48

6/3/2019 3:37:15 PM VAUGHN, ERIC S.\Snap\PROJECTS\155002.00 (DelDOT Agmt. 1730 TAP)\155002.16 (Task 16, Bike and Ped Feasibility)\09 Chestnut Run Plaza\CADD\rw04_crp.dgn

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
07-032.40-001	(101) EIDUPONT DENEMOURS & CO	TCE-1	D.R. P61-1	218.130

ALIGNMENT NUMBER & DESCRIPTION: 141_EX_RWBL - SR 141

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
60009	141_ex_rwbl	113+83.89	118.48	638054.1400	602037.8341	S 83°36'51.87" E	0.31				
60002	141_ex_rwbl	113+83.89	118.78	638054.1059	602038.1388	S 6°22'38.60" W	150.00				
60001	141_ex_rwbl	112+33.89	118.49	637905.0342	602021.4773	N 83°37'23.62" W	5.57				
60000	141_ex_rwbl	112+33.91	112.92	637905.6528	602015.9421	N 6°19'01.69" E	19.98				
60004	141_ex_rwbl	112+53.88	112.94	637925.5094	602018.1403			N 8°42'16.53" E	130.13	130.14	3732.97
60009	141_ex_rwbl	113+83.89	118.48	638054.1400	602037.8341						

FIGURE 60000 AREA = 544.0637 SQ. FT. (0.0125 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
07-032.40-001	(101) EIDUPONT DENEMOURS & CO	TCE-2	D.R. P61-1	218.130

ALIGNMENT NUMBER & DESCRIPTION: 48_EX_RWBM - SR 48, 141_EX_RWBL - SR 141

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
60033	48_ex_rwbm	33+81.91	159.46	640301.9388	603713.6708	S 26°46'54.62" W	183.64				
60032	48_ex_rwbm	33+76.90	343.03	640137.9942	603630.9216	S 65°43'08.09" W	353.29				
60031	141_ex_rwbl	139+09.72	319.77	639992.7156	603308.8819	S 89°14'24.60" W	213.03				
60064	141_ex_rwbl	137+60.12	168.11	639989.8906	603095.8745	S 77°14'58.47" W	116.26				
60030	141_ex_rwbl	136+63.06	104.12	639964.2317	602982.4824			N 73°19'19.75" E	280.80	289.13	346.20
60011	141_ex_rwbl	139+07.52	242.27	640044.8199	603251.4747			N 65°11'08.86" E	383.32	404.15	-360.54
60012	48_ex_rwbm	33+19.54	295.22	640205.6916	603599.4064			N 49°53'30.81" E	149.40	151.55	259.15
60033	48_ex_rwbm	33+81.91	159.46	640301.9388	603713.6708						

FIGURE 60002 AREA = 31395.8300 SQ. FT. (0.7207 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
07-032.40-001	(101) EIDUPONT DENEMOURS & CO	TCE-3	D.R. P61-1	218.130

ALIGNMENT NUMBER & DESCRIPTION: 48_EX_RWBM - SR 48

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
60035	48_ex_rwbm	36+01.75	65.01	640286.2848	603945.7902	S 27°49'43.67" W	17.72				
60041	48_ex_rwbm	36+01.75	82.73	640270.6178	603937.5199	N 69°27'36.43" W	148.09				
60042	48_ex_rwbm	34+54.86	101.52	640322.5759	603798.8459			S 81°45'15.61" E	108.91	109.73	259.15
60013	48_ex_rwbm	35+57.47	65.01	640306.9560	603906.6320	S 62°10'15.24" E	44.28				
60035	48_ex_rwbm	36+01.75	65.01	640286.2848	603945.7902						

FIGURE 60004 AREA = 2530.4404 SQ. FT. (0.0581 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
07-032.40-001	(101) EIDUPONT DENEMOURS & CO	TCE-4	D.R. P61-1	218.130

ALIGNMENT NUMBER & DESCRIPTION: 48_EX_RWBM - SR 48

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
60061	48_ex_rwbm	41+60.08	90.01	640003.5313	604427.8683	N 10°19'02.24" W	31.79				
60065	48_ex_rwbm	41+40.44	65.01	640034.8063	604422.1749	S 62°10'15.24" E	162.00				
60066	48_ex_rwbm	43+02.44	65.01	639959.1796	604565.4374	S 27°49'44.76" W	25.00				
60067	48_ex_rwbm	43+04.44	90.01	639937.0710	604553.7665	N 62°10'15.24" W	142.36				
60061	48_ex_rwbm	41+60.08	90.01	640003.5313	604427.8683						

FIGURE 60007 AREA = 3804.5242 SQ. FT. (0.0873 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)
07-032.40-122	(102) WBCMT 2006-C29 OFFICE 4250, LLC	TCE	INST. NO. 201703290015561	5.920

ALIGNMENT NUMBER & DESCRIPTION: 48_EX_RWBM - SR 48

PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
60059	48_ex_rwbm	38+71.09	65.01	640160.5484	604183.9770	S 62°10'15.24" E	269.35				
60065	48_ex_rwbm	41+40.44	65.01	640034.8063	604422.1749	S 10°19'02.24" E	19.07				
60058	48_ex_rwbm	41+52.22	80.01	640016.0413	604425.5909	N 62°10'15.24" W	281.13				
60060	48_ex_rwbm	38+71.09	80.01	640147.2833	604176.9745	N 27°49'45.40" E	15.00				
60059	48_ex_rwbm	38+71.09	65.01	640160.5484	604183.9770						

FIGURE 60006 AREA = 4128.6040 SQ. FT. (0.0948 ACRES)

COUNTY ASSESSMENT PARCEL NUMBER	PLAN SHEET NUMBER	OWNERSHIP OF RECORD	TITLE SOURCE	PROPERTY AREA BEFORE ACQUISITION (ACRE) D=DEED C=CALCULATED A=ASSESMENT	ACQUISITION CODE FEE, R/W, P/E, TCE	AREA TO BE ACQUIRED: ACQUISITION (SQ. FEET/ACRES)	AREA OCCUPIED BY EXISTING RIGHT OF WAY (SQ. FEET/ACRES)	EASEMENT: PERMANENT (SQ. FEET/ACRES)	EASEMENT: TEMPORARY (SQ. FEET/ACRES)	PROPERTY AREA REMAINING (SQ. FEET/ACRES)	DEED RECORD OF ACQUISITION	REMARKS
07-032.40-001	42	(101) EIDUPONT DENEMOURS & CO	D.R. P61-1	A - 218.13	TCE-1				544.0637 / 0.01			
	43, 44				TCE-2				31395.83 / 0.72			AOEE = 3426.1759 SF - 20' WIDE GAS EASEMENT - DR P61-1
	44,45				TCE-3				2530.4404 / 0.06			AOEE = 259.6544 SF - 24' WIDE ACCESS EASEMENT - DR P61-1
	45				TCE-4				3804.5242 / 0.09	9501742.80 / 218.13		
07-032.40-122	45	(102) WBCMT 2006-C29 OFFICE 4250, LLC	INST. NO. 201703290015561	A - 5.92	TCE				4128.6040 / 0.095	257875.2 / 5.92		AOEE = 295.7959 SF - 24' WIDE ACCESS EASEMENT - DR P61-1

LEGEND

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

ADDENDA / REVISIONS

NOT TO SCALE

CHESTNUT RUN PLAZA PEDESTRIAN IMPROVEMENTS

CONTRACT T201801102
COUNTY NEW CASTLE
BRIDGE NO. N/A
DESIGNED BY: TMB
CHECKED BY: WFC

RIGHT-OF-WAY DATA AND TABULATION SHEET

RW-05
SECTION CEI
SHEET NO. 49

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