THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY UNITS

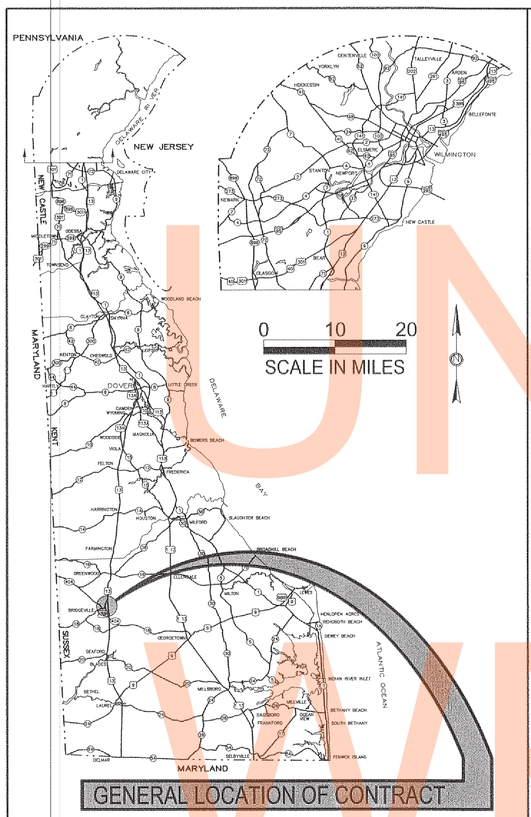
CONSTRUCTION PLANS FOR:

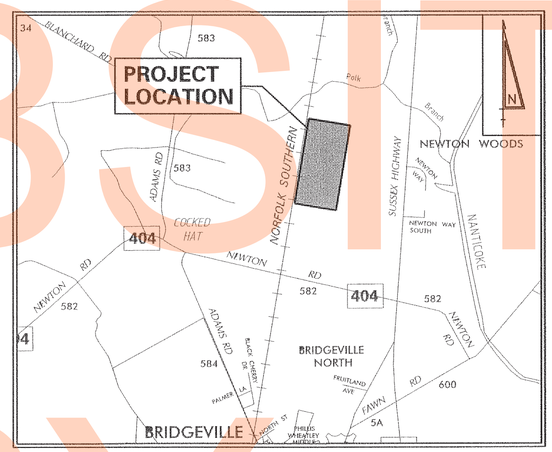
BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

CONTRACT NUMBER: T201280104

F.A.P. NUMBER: N/A

COUNTY: SUSSEX AGREEMENT NUMBER: 1551





LOCATION MAP

SCALE: N.T.S.

DESIGN DESIGNATION

FUNCTIONAL CLASS: N/A		D.H.V. PROJECTED: -	YEAR: -
TYPE OF CONSTRUCTION: MAINTANENCE YARD		DESIGN SPEED: - M.P.H.	
A.A.D.T. CURRENT: -	YEAR: -	TRUCKS: - %	
A.A.D.T. PROJECTED: -	YEAR: -	DIRECTION OF DISTRIBUTION: - %	

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TOTAL SHEETS: 80

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE
N/A			

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE
ADDENDUM 2	ML 4/9/14

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME

CONSTRUCTION SPECIFICATIONS

CONSTRUCTION ON THIS SITE SHALL BE IN CONFORMANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED AUGUST 2001, WITH SPECIFICATION SECTIONS AS INDICATED WITHIN THE PROJECT NOTES.

RECOMMENDED

MAINTENANCE ENGINEER — DATE 1/15/14

DISTRICT ENGINEER — DATE 1/15/14

MAINTENANCE IMPROVEMENT ENGINEER — DATE 1/15/14

ASSISTANT DIRECTOR STATEWIDE SUPPORT SERVICES — DATE 1/23/14

DIRECTOR MAINTENANCE AND OPERATIONS — DATE 1/24/14

RECOMMENDED AS TO PROCESS

CHIEF ENGINEER

DATE 01/28/14

RECOMMENDED

STORMWATER ENGINEER

DATE 1-16-14

LATONYA GILLIS — LICENSED PROFESSIONAL ENGINEER — No. 14861 — STATE OF DELAWARE

SEAL

PREPARED BY
CIVIL / STRUCTURAL ENGINEER

CENTURY ENGINEERING, INC.
4134 NORTH DUPONT HIGHWAY
DOVER, DE 19901
(302) 734-9188 FAX: (302) 734-4589

SEAL

RECOMMENDED

PREPARED BY
ARCHITECT

BECKER MORGAN GROUP, INC.
309 SOUTH GOVERNORS AVENUE
DOVER, DE 19904
(302) 734-7950 FAX: (302) 734-7965

WAYNE J. SHARP — NO. 5165 — STATE OF DELAWARE — REGISTERED ARCHITECT

SEAL

RECOMMENDED — DATE 12-18-13

PREPARED BY
MECHANICAL/ELECTRICAL ENGINEER

DELAWARE ENGINEERING AND DESIGN CORPORATION
315 SOUTH CHAPEL STREET
NEWARK, DE 19711
(302) 738-7172 FAX: (302) 738-7175

SEAL

RECOMMENDED — DATE 1/8/13

PSE SUBMISSION

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12/18/2013 Project Files\115005.DE (DelDOT A&E Open-End)\115005.01 (Task 1, Bridgeville Maintenance Yard)\CADD FILES\tc.dgn 11:56:22 AM

PLAN SHEET INDEX
NOT TO SCALE

C-1	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	2	80

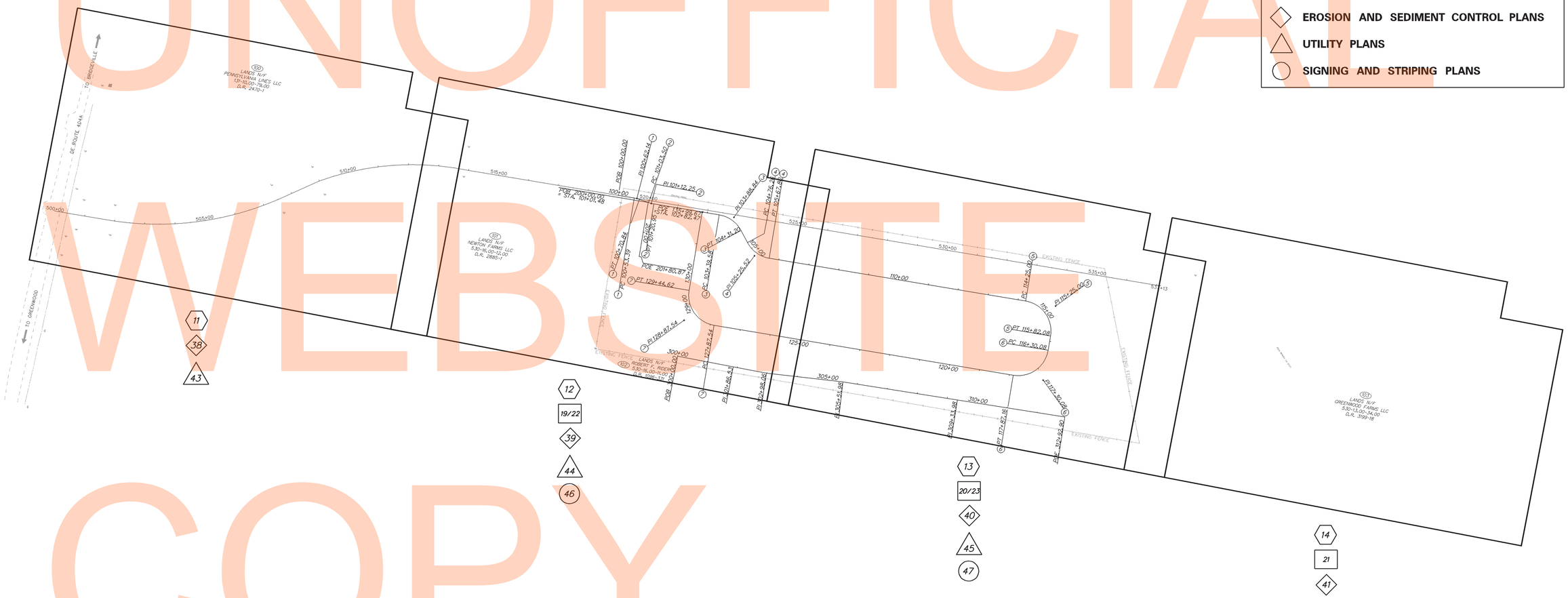
BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14

LEGEND

- CONSTRUCTION PLANS
- SITE AND BUILDING LAYOUT PLANS
- EROSION AND SEDIMENT CONTROL PLANS
- UTILITY PLANS
- SIGNING AND STRIPING PLANS



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PREL. TRACING ____ DESIGN ____ CHKD. ____

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C-2	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	3	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14

LEGEND
NOT TO SCALE

EXISTING SYMBOLS

DRAINAGE

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

MANMADE ROADSIDE FEATURES

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

NATURAL ROADSIDE FEATURES

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

RIGHT-OF-WAY SYMBOLS

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

SURVEY CONTROL & MONUMENTATION

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

UTILITY

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

UTILITY COMPANY FACILITIES

DP-E-OH	EXISTING UTILITY NAME
XXX	EXISTING UTILITY NAME
XXX	EXISTING UTILITY NAME
XXX	EXISTING UTILITY NAME

PROPOSED SYMBOLS

CONSTRUCTION

	CONCRETE SAFETY BARRIER - PERMANENT
BFS	BIOFILTRATION SWALE
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	BRICK PATTERNED SURFACE
	BUTT JOINT
100+00	CONSTRUCTION BASELINE
CSF	CONSTRUCTION SAFETY FENCE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB & GUTTER, TYPE 4
CZ	CLEAR ZONE
	DRAINAGE INLET
	DITCH
	FENCE - METAL
	FENCE - WOOD
	FLARED END SECTION
	GUARDRAIL, TYPE 1
	GUARDRAIL, TYPE 2
	GUARDRAIL, TYPE 3
	GUARDRAIL END ANCHORAGE
	GUARDRAIL END TREATMENT, TYPE 1
	GUARDRAIL END TREATMENT, TYPE 2
	GUARDRAIL END TREATMENT, TYPE 3
HC	HORIZONTAL CLEARANCE
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
LOC	LIMIT OF CONSTRUCTION
	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK @ 4"
	8" CONCRETE APRON/SLAB
	UNDERDRAIN
	UNDERDRAIN OUTLET
Y.H.	YARD HYDRANTS

RIGHT-OF-WAY SYMBOLS

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

IDENTIFIERS

A C	ADJUST BY CONTRACTOR
A O	ADJUST BY OTHERS
B	CONCRETE SAFETY BARRIER
C	CURB OR CURB & GUTTER
CJB	CONVERT TO JUNCTION BOX
CMH	CONVERT TO DRAINAGE MANHOLE
C O	CURB OPENING
CR	CURB RAMP / TYPE
CR-N	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
CSF	CONSTRUCTION SAFETY FENCE
DB	DUCT BANK
DI	DRAINAGE INLET
DND	DO NOT DISTURB
DS	DOWNSPOUT PIPING
F	FENCE
FES	FLARED END SECTION
FW C	FILL WITH FLOWABLE FILL
FS	FILTRATION STRUCTURE
GR	GUARDRAIL
JB	JUNCTION BOX
MH	MANHOLE
M	MONUMENT - RIGHT-OF-WAY
P	PIPE
RL C	RELOCATE BY CONTRACTOR
RL O	RELOCATE BY OTHERS
RM C	REMOVE BY CONTRACTOR
RM O	REMOVE BY OTHERS
UD	UNDERDRAIN / LENGTH
UDO	UNDERDRAIN OUTLET PIPE
RR	RIPRAP

LANDSCAPING

LS	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

TRAFFIC

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

PROPOSED SYMBOLS CONTD.

PAVEMENT SECTION(S)

	OPERATIONAL AREA PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	PARKING LOT PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	MATERIAL STOCKPILE ACCESS ROAD - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS

UTILITY COMPANY FACILITIES

CU-G	CHESAPEAKE UTILITIES
DP-E	DELMARVA POWER & LIGHT
XXX	PROPOSED UTILITY NAME
XXX	PROPOSED UTILITY NAME

PROPOSED ON-SITE UTILITIES

E	ELECTRIC
COM	COMMUNICATIONS
X-W	LINE SIZE-WATER
X-S	LINE SIZE-SEWER

EROSION & SEDIMENT CONTROL

DWB	DEWATERING BASIN
	EROSION CONTROL BLANKET
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
PST	PORTABLE SEDIMENT TANK
RSF	REINFORCED SILT FENCE
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE
SP-1	SUMP PIT, TYPE 1
SP-2	SUMP PIT, TYPE 2
ST	SEDIMENT TRAP
ST	SEDIMENT TRAP WITH INLET AS OUTLET
ST	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN

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PREL. TRACING DESIGN CHKD.

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C-3	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	4	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14

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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 2001 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2001, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

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

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

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

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

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

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

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.

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

(X)	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
( )	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR.
( )	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.

7. THE DISTURBED AREA FOR THIS PROJECT IS 24.93 ACRES.

8. 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.

9. THE EROSION AND SEDIMENT CONTROL PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE EROSION AND SEDIMENT CONTROL PLANS ARE VALID FOR A THREE YEAR PERIOD, BEGINNING ON THE DATE THE STORMWATER ENGINEER SIGNED THE CONSTRUCTION TITLE SHEET. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE THREE YEARS, THE CONTRACTOR SHALL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE EROSION AND SEDIMENT CONTROL PLAN APPROVAL. DELDOT WILL REVIEW THE CURRENT EROSION AND SEDIMENT CONTROL PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.

10. THE CONTRACTOR SHALL HAVE THE RIGHT-OF-WAY AND EASEMENT LINES STAKED OUT AND VERIFIED PRIOR TO PERFORMING ANY WORK. LINES SHALL BE STAKED AT ALL BREAK POINTS AND A MINIMUM OF EVERY 100'. THE RIGHT OF WAY LINES MUST REMAIN STAKED FOR THE DURATION OF THE WORK. COSTS TO PERFORM THIS WORK SHALL BE INCLUDED IN ITEM 763501 - CONSTRUCTION ENGINEERING.

GENERAL NOTES (CONTINUED)

11. EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. COMPLETENESS OR CORRECTNESS THEREOF IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES INVOLVED IN ORDER TO OBTAIN THE MOST ACCURATE INFORMATION AVAILABLE AS TO UTILITY LOCATION AND ELEVATION. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT NOTIFYING THEIR OWNERS AT LEAST TWO WORKING DAYS (48 HOURS) IN ADVANCE. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AN ANY DAMAGE DONE TO THEM DUE TO HIS/HER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE. TO LOCATE EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELMARVA THREE (3) CONSECUTIVE WORKING DAYS PRIOR TO EXCAVATION, AT 1-800-282-8555.

12. ALL PROPOSED UTILITY WORK SHOWN ON THE PLANS SHALL BE INSTALLED BY THE RESPECTIVE UTILITY COMPANY, WITH THE EXCEPTION OF THE UTILITIES DESIGNATED AS PROPOSED ON-SITE UTILITIES.

13. NO CONSTRUCTION OR WORKING TRAFFIC SHALL BE ALLOWED WITHIN 25 FEET OF THE EXISTING CENTER LINE OF THE EXISTING DP&L UTILITY LINES.

14. AS PART OF THE INSTALLATION OF P26, FES 7, AND ED 1 (AS SHOWN ON SHEET 14) THE CLEARING IN THE UPLAND FOREST SHALL BE KEPT TO THE MINIMUM ABSOLUTELY NECESSARY FOR CONSTRUCTION ACCESS. TREES LABELED "DND" ON SHEET 14 SHALL NOT BE REMOVED EXCEPT AS DIRECTED BY THE ENGINEER.

15. SILT FENCE OR ORANGE CONSTRUCTION SAFETY FENCE SHALL BE USED ALONG THE LIMIT OF CONSTRUCTION (LOC) THROUGH THE UPLAND FOREST AS SHOWN ON SHEETS 40 AND 41 OF THE PLANS. SILT FENCE SHALL BE USED ALONG THE LIMITS OF CONSTRUCTION ADJACENT TO THE WETLANDS AS SHOWN ON SHEETS 40 AND 41 OF THE PLANS. CONTRACTOR ACCESS BEYOND THE LOC IS STRICTLY PROHIBITED.

16. GRADING SCHEME PROVIDED BY DELDOT.

17. SURVEY CONTROL BASED UPON AN ASSUMED DATUM. ALL SURVEY CONTROL SHALL BE BASED OFF OF TRAVERSE POINT 4.

PROJECT NOTES

SECTION 100

1. PROPERTY MARKERS NOT INDICATED ON THE PLANS TO BE RELOCATED SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.09 OF THE STANDARD SPECIFICATIONS. EXISTING PROPERTY MONUMENTS THAT ARE DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED WITH NEW MONUMENTS OF COMPARABLE MATERIAL AND SIZE TO THE ORIGINAL AND MEETING THE CURRENT STANDARDS FOR MONUMENTATION. ALL MONUMENTS THAT ARE PLACED SHALL BE LOCATED AND SET BY, OR UNDER THE SUPERVISION OF, A REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR LICENSED TO PRACTICE IN THE STATE OF DELAWARE.

2. ANY DEWATERING MEASURES NECESSARY FOR THE INSTALLATION OF THE PROPOSED DITCHES, PIPES, DRAINAGE INLETS, MANHOLES, JUNCTION BOXES, CULVERTS, STORMWATER PONDS, AND STORMWATER OUTLET STRUCTURES SHALL BE INCIDENTAL TO THE ITEM BEING INSTALLED. THE METHOD OF DEWATERING SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS NECESSARY FOR DEWATERING.

SECTION 200

3. THE CONTRACTOR SHALL NOT BE REQUIRED TO PERFORM ANY CLEARING AND GRUBBING AS PART OF THIS PROJECT. ALL CLEARING AND GRUBBING TO BE PERFORMED BY DELDOT.

4. REMOVAL OF EXISTING UNDERDRAINS OR PIPING, IF ENCOUNTERED, SHALL BE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.

5. UNSUITABLE MATERIALS GENERATED FROM EXCAVATION SHALL NOT BE USED AS FILL AND SHALL BE LEGALLY DISPOSED OF OUTSIDE OF THE PROJECT AREA. ALL COSTS ASSOCIATED WITH THE REMOVAL AND DISPOSAL OF THIS MATERIAL SHALL BE INCIDENTAL TO THE ITEM BEING EXCAVATED.

6. BORROW TYPE A SHALL BE USED TO BACKFILL ALL DRY UNDERCUT AREAS AS DIRECTED BY THE ENGINEER. BORROW TYPE B SHALL BE USED IN UNDERCUT WITH WET CONDITIONS AS DIRECTED BY THE ENGINEER.

7. STORMWATER POND, OUTFALL, BIOSWALE, AND EAST DRAINAGE SWALE (300 SERIES ALIGNMENT) TO BE CONSTRUCTED BY DELDOT. NO PAYMENT SHALL BE MADE UNDER THIS CONTRACT FOR ITEM 271000 - STORMWATER MANAGEMENT POND. EXCESS MATERIAL AVAILABLE FROM THE CONSTRUCTION OF THE STORMWATER POND SHALL BE STOCKPILED ON SITE BY DELDOT FOR THE CONTRACTORS USE AS FILL MATERIAL UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT. THE CONTRACTOR SHALL BE REQUIRED TO SECTION THE EXISTING STOCKPILED MATERIAL ON-SITE FOR DETERMINATION OF PAY QUANTITIES. COST FOR SECTIONING THE EXISTING MATERIAL SHALL BE INCLUDED IN ITEM 202000 - EXCAVATION AND EMBANKMENT. THE STORMWATER POND SHALL NOT BE USED AS A SEDIMENT TRAP DURING CONSTRUCTION. ANY SEDIMENT THAT ACCULUMATES IN THE STORMWATER POND SHALL BE REMOVED AT THE CONCLUSION OF THE PROJECT AT THE CONTRACTORS EXPENSE.

8. ALL TREE STUMPS AND ROOT MAT SHALL BE REMOVED ENTIRELY, REGARDLESS OF DEPTH. BURIAL OF ORGANIC MATERIAL IS NOT PERMITTED. OPEN BURNING OF DOWNED TREES AND STUMPS IS NOT PERMITTED. CHIPPED MATERIALS MUST BE REMOVED PRIOR TO THE PLACEMENT OF EMBANKMENT OR TOPSOIL.

9. THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION. UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOTICE OF INTENT (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.

10. ITEM 208000 EXCAVATION AND BACKFILLING FOR PIPES AND TRENCHES HAS BEEN REMOVED FROM THE BID. EXCAVATION AND BACKFILL SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF ALL SIZES AND TYPES OF PIPE AND CONDUIT. PRICE AND PAYMENT OF ALL SHAPES AND SIZES OF PIPE AND CONDUIT ITEMS WILL CONSTITUTE FULL COMPENSATION FOR FURNISHING, HAULING, AND INSTALLING PIPE; FOR ALL CRIBBING OR FOUNDATION TREATMENT NECESSARY TO PREVENT SETTLEMENT; FOR ALL SHORING AND SHEETING; FOR REPLACEMENT OF ANY PIPE WHICH SHOWS ANY SETTLEMENT AFTER LAYING; AND FOR ALL MATERIAL, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK. THIS NOTE SHALL SUPERSEDE SPECIAL PROVISION SPECIFICATIONS.

TREE REMEDIATION SUMMARY

TREE REMOVAL OF CALIPER SIZE 4" AND GREATER	0.00 AC
REMEDIATION REQUIRED	0.00 AC
REMEDIATION PROVIDED	0.00 AC

EARTHWORK SUMMARY

EXCAVATION	
EXCAVATION FROM CROSS SECTIONS	28,310 CY
FROM OTHER SOURCES	0 CY
TOTAL EXCAVATION	28,310 CY
EXCAVATION AVAILABLE FOR EMBANKMENT	
TOTAL EXCAVATION	28,310 CY
LESS UNSUITABLE EMBANKMENT MATERIAL	16,172 CY
PLUS EXISTING STOCKPILED MATERIAL	18,410 CY
SUBTOTAL EXCAVATION FOR EMBANKMENT	30,548 CY
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT	30,548 CY
EXCAVATION MEETING BORROW TYPE 'A'	18,548 CY
EXCAVATION MEETING BORROW TYPE 'C'	12,000 CY
EMBANKMENT REQUIREMENTS	
BORROW TYPE 'A' REQUIRED	9,348 CY
BORROW TYPE 'C' REQUIRED	11,330 CY
CUT /FILL BALANCE (+ =EXCESS, – =NEED)	
BORROW TYPE 'A'	+9,200 CY
BORROW TYPE 'C'	+670 CY
TOPSOIL BALANCE (+ =EXCESS, – =NEED)	
TOPSOIL STRIPPING FROM SITE	16,172 CY
TOPSOIL REQUIRED	3,982 CY
TOPSOIL BALANCE	+12,190 CY

THIS CHART IS FOR INFORMATIONAL PURPOSES ONLY. EARTHWORK SUMMARY IS BASED ON ESTIMATED QUANTITIES FOR EXCAVATION, BORROW, AND TOPSOIL.

EARTHWORK SUMMARY NOTES:

1. THE VALUES LISTED IN THE EARTHWORK SUMMARY ARE APPROXIMATE AND ARE NOT TO BE USED AS AS A BASIS OF PAYMENT.

2. EXCEPTING THE VALUE FOR "EXISTING STOCKPILED MATERIAL", VALUES IN THE EARTHWORK SUMMARY ARE BASED UPON WORK PERFORMED UNDER THIS CONTRACT AND DO NOT INCLUDE EARTHWORK PERFORMED BY OTHERS.

3. VALUE FOR "EXISTING STOCKPILED MATERIAL" IS APPROXIMATE.

11. REFERENCES IN THE TYPICAL SECTIONS (PLAN SHEETS 6 & 7) TO ITEMS 209001 - BORROW TYPE A AND ITEM 209006 - BORROW TYPE F SHALL MEAN MATERIAL MEETING THE REQUIREMENTS OF 209001 AND/OR 209006. ALL SUITABLE MATERIAL GENERATED FROM ITEM202000 - EXCAVTION AND EMBANDMENT SHALL BE USED TO CONSTRUCT THE REQUIRED FILLS BEFORE ANY OUTSIDE BORROW SOURCE IS AUTHORIZED FOR USE.

12. ANY EXCESS EXCAVATED TOPSOIL AND/OR BORROW GENERATED UNDER ITEM 202000 SHALL BE STOCKPILED ON SITE AT A LOCATION DETERMINED BY DELDOT.

PREL. TRACING ____ DESIGN ____ CHKD. ____

PROJECT NOTES (CONT.)

SECTION 300

12. A. THE CONTRACTOR MAY ELECT TO USE ANY OF THE FOLLOWING MATERIALS TO MEET THE REQUIREMENTS OF ITEM 302005 - GRADED AGGREGATE BASE COURSE, TYPE "B":

1. CRUSHED STONE (PER STANDARD SPECIFICATION 821)
2. CRUSHED CONCRETE (PER STANDARD SPECIFICATION 821)
3. HOT-MIX MILLINGS (PER SPECIAL PROVISION 302514 - MILLED HOT-MIX BASE COURSE)

THE CONTRACTOR WILL NOT BE ALLOWED TO MIX DIFFERENT MATERIALS OR SIMILAR MATERIALS FROM DIFFERENT SOURCES TO MEET THE REQUIREMENTS OF ITEM 302005 - GRADED AGGREGATE BASE COURSE, TYPE "B".

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

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

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

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

1. MATERIAL MADE AVAILABLE WHEN MILLED ON THIS CONTRACT.
2. MILLED MATERIAL FURNISHED ON THE JOB FROM AN OUTSIDE SOURCE. (ALL MILLED MATERIALS SHALL MEET THE MATERIAL REQUIREMENTS OF ITEM 302514 - MILLED HOT-MIX BASE COURSE)

E. PAYMENT CLARIFICATION

1. SHOULD THE CONTRACTOR ELECT TO MILL PORTIONS OF THE HOT-MIX SHOWN ON THE PLANS AS TO BE REMOVED UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT, THE COST OF MILLING THIS HOT-MIX WILL BE PAID AS ITEM 202000 - EXCAVATION AND EMBANKMENT. THE MILLINGS GENERATED MAY BE RECYCLED INTO HOT-MIX, UTILIZED FOR BASE COURSE, OR DISPOSED OF PER THE NOTES IN SECTION 700 OF THESE PROJECT NOTES.
2. MILLINGS GENERATED UNDER ITEM 760507 - PROFILE MILLING, HOT-MIX, MAY BE RECYCLED INTO HOT-MIX, UTILIZED AS BASE COURSE, OR DISPOSED OF PER THE NOTES IN SECTION 700 OF THESE PROJECT NOTES.
3. SHOULD THE CONTRACTOR ELECT TO TEMPORARILY STOCKPILE MILLINGS ON THE JOB SITE FOR LATER USE, ALL COSTS FOR STOCKPILING AND SUBSEQUENT REHANDLING SHALL BE INCIDENTAL TO THE ITEM UNDER WHICH THE MILLING WAS PAID, EITHER ITEM 202000 - EXCAVATION AND EMBANKMENT, OR ITEM 760507 - PROFILE MILLING, HOT-MIX.
4. MILLINGS USED FOR BASE COURSE SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIAL PROVISION 302514 - MILLED HOT-MIX BASE COURSE. NO SEPARATE PAYMENT WILL BE MADE TO FURNISH MILLINGS FROM AN OUTSIDE SOURCE OR TO TRANSPORT MILLINGS WITHIN THE PROJECT LIMITS. MILLINGS USED FOR BASE COURSE SHALL BE PAID UNDER ITEM 302005 - GRADED AGGREGATE BASE COURSE, TYPE B.
5. ALL COSTS TO UTILIZE MILLINGS IN RECYCLED HOT-MIX WILL BE INCIDENTAL TO THE HOT-MIX ITEM USING THE RECYCLED MATERIAL.
6. SPECIAL PROVISION 302514 - HOT-MIX BASE COURSE IS REFERENCED TO PROVIDE A MEANS OF LAY DOWN AND COMPACTION AS WELL AS THE MATERIAL REQUIREMENTS FOR MILLINGS USED AS A BASE COURSE. NO PAYMENT SHALL OCCUR UNDER SPECIAL PROVISION 302514 - HOT-MIX BASE COURSE.

SECTION 600

13. THE CONTRACTOR IS REQUIRED TO COORDINATE VIDEO INSPECTION OF NEW PIPE RUNS WITH DELDOT PRIOR TO ACCEPTANCE. VIDEO INSPECTION OF PIPE RUNS WILL BE PERFORMED BY DELDOT. NO PAYMENT SHALL BE MADE FOR ITEM 612529 - VIDEO INSPECTION.

14. ~~DELETE SECTION 612.11 OF THE STANDARDS SPECIFICATIONS AND REPLACE WITH THE FOLLOWING: THE QUANTITY OF REINFORCED CONCRETE ROUND OR ELLIPTICAL PIPE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FOOT (LINEAR METER) FOR EACH TYPE OF PIPE. PRICE AND PAYMENT WILL CONSTITUTE FULL COMPENSATION FOR FURNISHING, HAULING, AND INSTALLING PIPE; FOR ALL CRIBBING OR FOUNDATION TREATMENT NECESSARY TO PREVENT SETTLEMENT; FOR ALL SHORING AND SHEETING; FOR THE REPLACEMENT OF ANY PIPE WHICH IS NOT TRUE IN ALIGNMENT OR WHICH SHOWS ANY SETTLEMENT AFTER LAYING; AND FOR ALL MATERIAL, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK. FOR ALL PIPE THE EXCAVATION (EXCLUDING ROCK), BACKFILL, AND BACKFILLING WILL BE INCLUDED IN THE PRICE FOR THIS WORK. PAYMENT FOR EXCAVATION AND REPLACEMENT OF UNSUITABLE MATERIAL ENCOUNTERED BELOW THE FLOW LINE OF PIPE WILL BE PROVIDED FOR UNDER SECTION 208.~~

SECTION 700

15. UNLESS OTHERWISE APPROVED BY THE ENGINEER, CONSTRUCTION OF ANY PROPOSED DRAINAGE, TEMPORARY DRAINAGE, OR INSTALLATION OF EROSION CONTROL MEASURES SHALL START AT THE OUTFALL AND PROGRESS UPSTREAM FOR ALL CONSTRUCTION PHASES.

16. STATION, ELEVATIONS, AND OFFSET DATA GIVEN FOR DRAINAGE STRUCTURES ARE TO BE APPLIED TO THE CENTER OF THE GRATE FOR INLETS THAT ARE NOT LOCATED ALONG A CURBLINE. INLETS THAT ARE LOCATED ALONG A CURB SHALL HAVE THE GRATE ELEVATION MATCH THE PROPOSED CURBLINE ELEVATION. STATION, OFFSET, AND ELEVATION DATA FOR MANHOLES IS GIVEN TO THE CENTER OF THE LID. STATION, OFFSET, AND ELEVATION DATA FOR JUNCTION BOXES IS GIVEN TO THE CENTER OF THE STRUCTURE.

17. DRAINAGE INLET INVERTS ARE GIVEN TO THE LOWEST PIPE INVERT IN THE INLET. THE PIPE THICKNESS SHALL BE TAKEN INTO ACCOUNT WHEN THE INLETS ARE PRECAST.

18. ALL SURVEY CONTROL POINTS AND EXISTING TOPOGRAPHIC SURVEY WERE ESTABLISHED BY THE DELAWARE DEPARTMENT OF TRANSPORTATION FORCES AND PROVIDED TO CENTURY ENGINEERING INC.

PROJECT NOTES (CONT.)

SECTION 700 (CONTINUED)

19. THE CONTRACTOR MUST HAVE A SELF-CONTAINING SWEEPER AVAILABLE FOR USE AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT AND USE THE SWEEPER AS DIRECTED BY THE ENGINEER. AT A MINIMUM, ALL PAVED SURFACES ADJOINING THE PROJECT LIMITS SHALL BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH WORK DAY. ALL COSTS SHALL BE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.

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

21. PRIOR TO INSTALLING ANY SEEDING OR MULCHING ITEM ON FINAL SLOPES, THE SLOPES SHALL BE TRACKED BY DRIVING A BULLDOZER UP AND DOWN THE SLOPE, SUCH THAT THE CLEATS MAKE HORIZONTALLY ORIENTED INDENTATIONS IN THE SLOPE. ALL COSTS ASSOCIATED WITH PERFORMING THIS WORK SHALL BE INCIDENTAL TO THE SEEDING ITEM BEING APPLIED TO THE FINAL SLOPE.

22. THE CONTRACTOR SHALL INSTALL ALL PERMANENT SIGNAGE AS SHOWN ON THE CONTRACT DOCUMENTS. ALL COSTS COVERED UNDER THE APPROPRIATE ITEMS. SIGN POSTS, BRACKETS, HARDWARE, AND ALL ITEMS TO MOUNT SIGNS PANELS SHALL BE INCLUDED IN ITEM 749500 - SIGN PANEL.

23. THIS PROJECT INCLUDES THE CONSTRUCTION OF A CREW OPERATIONS BUILDING, GEOTHERMAL WELL SYSTEM, AND FLAGPOLE. REFER TO CONTRACT PLANS AND SPECIFICATION FOR ITEM 763538 - MAINTENANCE BUILDING FOR DETAIL ON WORK INCLUDED UNDER THIS ITEM. WORK UNDER THESE ITEMS SHALL FOLLOW AIA SPECIFICATIONS AS STATED IN THE SPECIFICATIONS PACKAGE.

24. THIS PROJECT INCLUDES THE RELOCATION OF AN EXISTING FUEL TANK FROM DELDOT'S SEAFORD MAINTENANCE YARD. REFER TO CONTRACT PLANS AND SPECIFICATION FOR ITEM 763592 - ABOVE GROUND FUEL TANK FOR DETAIL ON WORK INCLUDED UNDER THIS ITEM. WORK UNDER THESE ITEMS SHALL FOLLOW AIA SPECIFICATIONS AS STATED IN THE SPECIFICATIONS PACKAGE.

25. THIS PROJECT INCLUDES THE RELOCATION OF AN EXISTING GENERATOR FROM DELDOT'S SEAFORD MAINTENANCE YARD. REFER TO CONTRACT PLANS AND SPECIFICATION FOR ITEM 763568 - EMERGENCY GENERATOR FOR DETAIL ON WORK INCLUDED UNDER THIS ITEM. WORK UNDER THESE ITEMS SHALL FOLLOW AIA SPECIFICATIONS AS STATED IN THE SPECIFICATIONS PACKAGE.

26. THIS PROJECT REQUIRES THE INSTALLATION OF A WELL CAPABLE OF SUPPLYING A CONTINUOUS FLOW OF 200 GALLONS PER MINUTE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE WELL DEPTH IS APPROPRIATE TO SUPPORT THIS DEMAND. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL NECESSARY WELL PERMITS. COSTS TO BE INCLUDED IN ITEM 763693 - POTABLE WATER SUPPLY WELL. REFER TO CONTRACT PLANS AND SPECIFICATION FOR ITEM 763693 - POTABLE WATER SUPPLY WELL FOR DETAIL ON WORK INCLUDED UNDER THIS ITEM. WORK UNDER THESE ITEMS SHALL FOLLOW AIA SPECIFICATIONS AS STATED IN THE SPECIFICATIONS PACKAGE.

MISCELLANEOUS

27. DELETE STANDARD SPEC 104.10 AND REPLACE WITH: THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER, SHALL BE DIRECTED TO USE ON THE PROJECT MATERIALS, AS GENERATED BY THE CONTRACTOR DURING EXCAVATION, FOR USE IN AREAS REQUIRING BORROW TYPES A, B OR C ELSEWHERE WITHIN THE PROJECT. PAYMENT FOR PLACING THESE MATERIALS AT LOCATIONS AS DIRECTED BY THE ENGINEER SHALL BE INCIDENTAL TO THE ITEM THAT GENERATED THE MATERIAL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DRY OR WET THE MATERIALS, IF NEEDED SO THAT THE MATERIALS WILL MEET THE REQUIREMENTS OF ITS INTENDED USE. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, STOCKPILE MATERIALS TO MEET THESE REQUIREMENTS, HOWEVER, MOVING THE MATERIAL FROM THE STOCKPILE AND THEN UTILIZING THE MATERIAL SHALL NOT BE MEASURED FOR PAYMENT. ALL MATERIALS ENCOUNTERED IN THE EXCAVATIONS OF THE PROJECT THAT ARE NOT USED ELSEWHERE ON THE PROJECT SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, WITH THE EXCEPTION OF TOPSOIL. ALL EXCESS TOPSOIL SHALL REMAIN PROPERTY OF DELDOT AND SHALL BE STOCKPILED ON THE SITE AT A LOCATION DIRECTED BY THE ENGINEER. ALL COSTS ASSOCIATED WITH STOCKPILING MATERIALS, MOVING ANY MATERIALS FROM ANY STOCKPILES, WETTING AND/OR DRYING MATERIAL, OR REMOVAL AND FINAL DISPOSAL SHALL BE INCIDENTAL TO THE ITEM THAT GENERATED THE MATERIAL.

28. A BOUNDARY SURVEY WAS PERFORMED BY CENTURY ENGINEERING, INC, AND IS AVAILABLE FROM THE DEPARTMENT. THE BOUNDARY SURVEY WAS PERFORMED UNDER A DIFFERENT CONTROL NETWORK THAN THE SITE SURVEY. THE CONTRACTOR MUST ENSURE THAT THE BOUNDARY PLAN CONTROL IS UTILIZED WHEN LAYING OUT THE SITE BOUNDARY.

29. THERE ARE NO ENVIRONMENTAL PERMITS ASSOCIATED WITH THIS PROJECT. AS SUCH, NO ENVIRONMENTAL COMPLIANCE SHEETS HAVE BEEN PREPARED.

30. THE INTENT OF THIS PROJECT IS TO PERFORM THE MAINTENANCE YARD SITE WORK, RELOCATE AN EXISTING GENERATOR AND FUEL TANK, CONSTRUCT THE CREW OPERATIONS BUILDING, FUEL DEPOT, WATER SUPPLY AND DISTRIBUTION, AND SITE UTILITIES. THE ACCESS ROAD, SALT BARN, SALT LOADING RAMPS, TRUCK SHEDS, MOWER SHED, SHOP BUILDING, SALT RACKS, STORMWATER POND, STORMWATER BIOSWALE, AND SEPTIC CONSTRUCTION ARE NOT PART OF THIS CONTRACT. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE CONSTRUCTORS OF THESE FACILITIES AS STATED WITHIN THE SEQUENCE OF CONSTRUCTION. COST SHALL BE INCIDENTAL TO THE CONTRACT.

31. GRADING PLANS WERE DEVELOPED BY DELDOT AND PROVIDED TO CENTURY ENGINEERING, INC.

FIRE MARSHAL NOTES:

1. THE PROPOSED BUILDING CONSTRUCTION CONSISTS OF THE FOLLOWING STRUCTURES:

DESCRIPTION	USE	AREA	BUILDING OCCUPANCY (IBC CH3)	CONSTRUCTION TYPE (IBC CH6) / (NFPA-220)	MAXIMUM BUILDING HEIGHT (FEET)	FIRE SUPPRESSION SYSTEM	NUMBER OF STORIES	FIRE ALRAM
CREW OPERATIONS	OFFICE	3269	GROUP B	IV-B / V-000	20'-3"	NONE (2)	ONE	YES
SALT BARN (1)	STORAGE	7000	GROUP U	III-B OR V-B / III-200 OR V-000 (4)	39'-10½"	NONE	ONE	YES
SHOP BUILDING (1)	MAINTENANCE/OFFICE	7084	GROUP S-1	III-B / III-200 (4)	29'-0"	NONE (2)	ONE	YES
FUEL BUILDING (3)	STORAGE	1224	GROUP H	III-B OR V-B / III-200 OR V-000	10'-0"	NONE	ONE	NO
TRUCK SHED 1 (1)	STORAGE	9000	GROUP U	III-B OR V-B / III-200 OR V-000 (4)	27'-0"	NONE	ONE	YES
TRUCK SHED 2 (1)	STORAGE	9000	GROUP U	III-B OR V-B / III-200 OR V-000 (4)	27'-0"	NONE	ONE	YES
MOWER SHED (1)	STORAGE	7200	GROUP U	III-B OR V-B / III-200 OR V-000 (4)	27'-0"	NONE	ONE	YES

(1) BUILDINGS DESIGNED AND CONSTRUCTED BY OWNER UNDER SEPARATE CONTRACT.
(2) FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH THE DELAWARE STATE FIRE PREVENTION REGULATIONS, 2006 OR LATEST EDITION.
(3) FUEL BUILDING CONSTRUCTED WITH OPEN/NO ROOF.
(4) ASSUMED. FINAL MATERIALS AND SYSTEMS BY OWNER.

2. A PROPOSED 5000 GALLON DIESEL FUEL DISPENSING FACILITY IS TO BE CONSTRUCTED PER THESE PLANS AND SPECIFICATIONS AND SHALL BE PAID FOR UNDER ITEM 763592 - ABOVE GROUND FUEL TANK.
3. A PROPOSED EMERGENCY GENERATOR IS TO BE CONSTRUCTED PER THESE PLANS AND SPECIFICATIONS AND SHALL BE PAID FOR UNDER SPECIAL PROVISION ITEM 763568 - EMERGENCY GENERATOR.
4. WATER IS SUPPLIED BY ON-SITE PRIVATE WELL.
5. ALL FIRE LANES, FIRE HYDRANTS, AND FIRE DEPARTMENT CONNECTIONS SHALL BE MARKED IN ACCORDANCE WITH THE STATE FIRE PREVENTION REGULATIONS.
6. THE ABOVE GROUND STORAGE TANK AND/OR APPROACH TO THE TANK SHALL BE MARKED IN ACCORDANCE WITH NFPA 70-1 - STANDARD SYSTEM FOR THE IDENTIFICATION OF HAZARDS OF MATERIALS FOR EMERGENCY RESPONSE. ALL SIGNAGE SHALL BE PAID FOR UNDER SPECIAL PROVISION ITEM 763592 - ABOVE GROUND FUEL TANK. THERE WILL BE NO SEPARATE PAYMENT FOR THE REQUIRED SIGNAGE FOR THE FUEL DISPENSING SYSTEM.

FIRE MARSHAL NOTES, CONTINUED:

7. LOCK BOX REQUIRED. CONTACT LOCAL FIRE CHIEF FOR ORDERING INFORMATION AND LOCATION OF BOX ON THE BUILDING.
8. THE CREW OPERATIONS BUILDING WILL BE EQUIPPED WITH A FIRE ALARM SYSTEM.
9. ALL OTHER BUILDINGS ARE BY OTHERS AND ANY ALARM REQUIREMENTS ARE BY THE OWNER AND WILL BE SUBMITTED WITH THE APPLICATION FOR EACH BUILDING.

OWNER'S NAME: MATTHEW LICHTENSTEIN

OWNER'S ADDRESS: DELAWARE DEPARTMENT OF TRANSPORTATION
800 BAY ROAD
P.O. BOX 778
DOVER, DE 19901

TAX PARCEL NUMBER: 5-30-16-11.01

PROJECT NOTES

C-4	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	5	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14

PREL. TRACING
DESIGN
CHKD.

8/12/2013
G:\PROJECTS\115005.0E (DelDOT A&E Open-End)\115005.01 (Task 1, Bridgeville Maintenance Yard)\CADD FILES\pn.dgn
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C-5	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	6	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

HORIZONTAL AND VERTICAL CONTROL SHEET 1 OF 3

SCALE

0 60 120 180

FEET

N

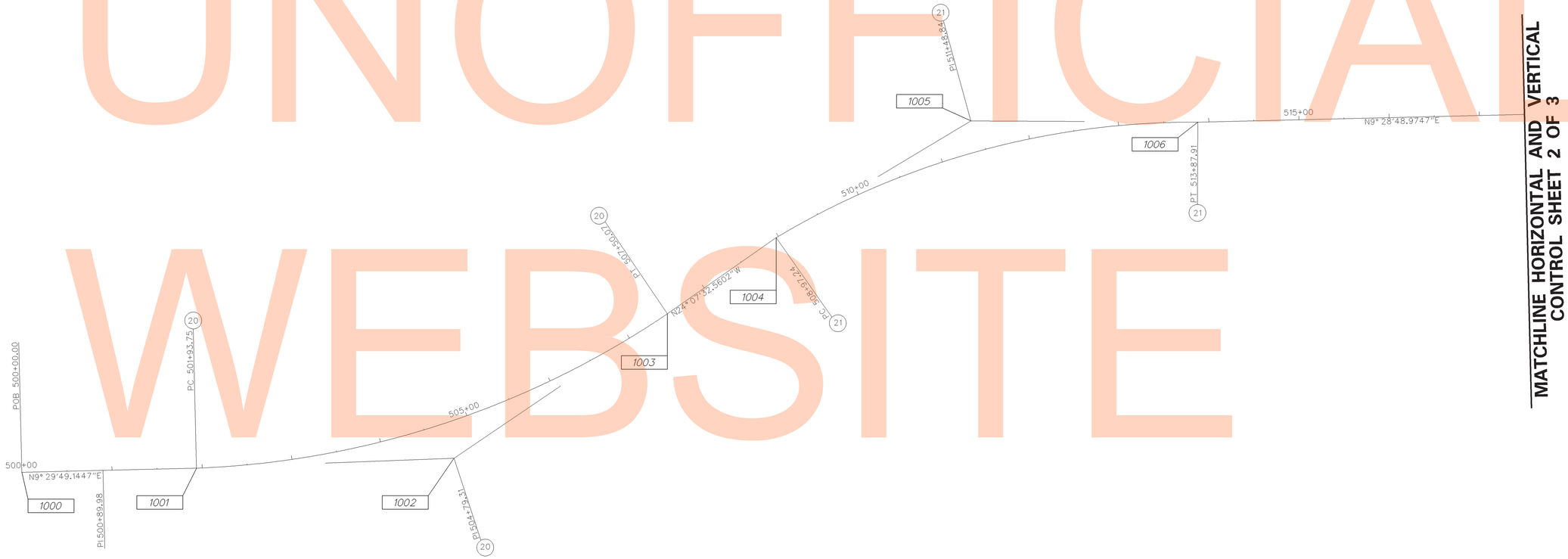
REVISIONS

ADDENDUM 2 4/9/14

NOTE: ENTRANCE ROAD TO BE CONSTRUCTED BY OTHERS. ALIGNMENT DATA AVAILABLE FROM THE DEPARTMENT.

CONSTRUCTION ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
1000	500+00.00	0.00	277145.4042	603722.6635
1001	501+93.75	0.00	277336.5025	603754.6320
1002	504+79.31	-	277618.8341	603797.4420
1003	507+50.07	0.00	278015.5215	603624.5513
1004	508+97.24	0.00	278015.5215	603624.5513
1005	511+48.84	-	278251.7923	603538.0776
1006	513+87.91	0.00	278498.6542	603586.6653



MATCHLINE HORIZONTAL AND VERTICAL CONTROL SHEET 2 OF 3

Circular Curve No. 20

Curve Set Type: Circular

		STATION	NORTHING	EASTING
PC	(1001)	501+93.75	277336.5025	603754.6320
PI	(1002)	504+79.31	277618.8341	603797.4420
CC	( )		277486.4190	602765.9333
PT	(1003)	507+50.07	277881.1987	603684.7091

Radius:	1000.0000
Delta:	31° 52'27.5739" Left
Degree of Curvature (Arc):	5° 43'46.4806"
Length:	556.3119
Tangent:	285.5589
Chord:	549.1659
Middle Ordinate:	38.4366
External:	39.9730
Tangent Direction:	N 8° 37'19.5182" E
Radial Direction:	S 81° 22'40.4817" E
Chord Direction:	N 7° 18'54.2686" W
Radial Direction:	N 66° 44'51.9444" E
Tangent Direction:	N 23° 15'08.0555" W

Circular Curve No. 21

Curve Set Type: Circular

		STATION	NORTHING	EASTING
PC	(1004)	508+97.24	278015.5215	603624.5513
PI	(1005)	511+48.84	278251.7923	603538.0776
CC	( )		278324.8495	604469.7236
PT	(1006)	513+87.91	278498.6542	603586.6653

Radius:	900.0000
Delta:	31° 14'13.3028" Right
Degree of Curvature (Arc):	6° 21'58.3118"
Length:	490.6701
Tangent:	251.5980
Chord:	484.6159
Middle Ordinate:	33.2319
External:	34.5061
Tangent Direction:	N 20° 06'08.3565" W
Radial Direction:	N 69° 53'51.6436" E
Chord Direction:	N 4° 29'01.7052" W
Radial Direction:	S 78° 51'55.0538" E
Tangent Direction:	N 11° 08'04.9464" E

PREL. TRACING DESIGN CHKD.

8/12/2013
O:\PROJECTS\115005.OE (Old)OT A&E Open-End\115005.01 Task 1, Bridgeville Maintenance Yard\CADD FILES\HV01_60SCALE.dgn
17103149

UNOFFICIAL WEBSITE COPY

C-6	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	7	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

HORIZONTAL AND VERTICAL CONTROL SHEET 2 OF 3

REVISIONS

ADDENDUM 2 4/9/14

CONSTRUCTION ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
1007	519+12.61	0.00	279016.1852	603673.0871
2000	100+00.00	0.00	279003.7458	603671.0099
2001	100+53.39	0.00	279056.4072	603679.8037
2002	100+62.14	-	279065.0366	603681.2447
2003	100+70.84	0.00	279073.2847	603684.1623
2004	200+00.00	0.00	279102.1647	603694.3781
2005	201+80.87	0.00	279072.3709	603872.7743
2006	101+03.50	0.00	279104.0688	603695.0517
2007	101+12.25	-	279112.3169	603697.9692
2008	101+20.95	0.00	279120.9462	603699.4103
2009	103+39.58	0.00	279336.5912	603735.4205
2010	103+88.84	-	279385.1768	603743.5338
2011	104+31.12	0.00	279408.3565	603786.9974

CONSTRUCTION ALIGNMENT CONTROL

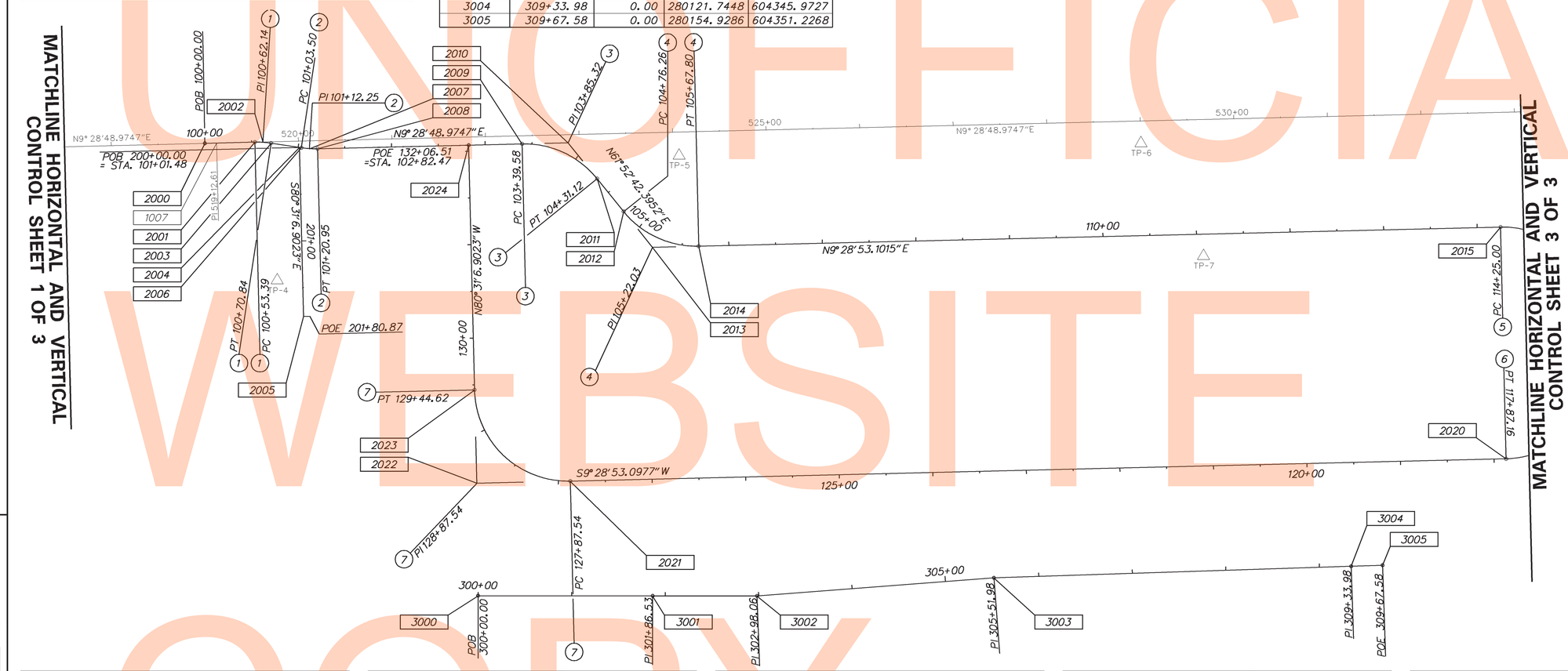
POINT	STATION	OFFSET	NORTHING	EASTING
2012	104+76.26	0.00	279429.5998	603826.8300
2013	105+25.52	-	279452.7789	603870.2925
2014	105+67.80	0.00	279501.3631	603878.4065
2015	114+25.00	0.00	280346.8507	604019.6108
2020	117+87.16	0.00	280305.9982	604264.2229
2021	127+87.54	0.00	279319.2814	604099.4321
2022	128+87.54	-	279220.6475	604082.9593
2023	129+44.62	0.00	279237.1203	603984.3254
2024	102+82.47	0.00	279280.2607	603726.0139
3000	300+00.00	0.00	279199.4429	604201.3565
3001	301+86.53	0.00	279382.6103	604236.6221
3002	302+98.06	0.00	279492.1330	604257.6941
3003	305+51.98	0.00	279744.4271	604286.3492
3004	309+33.98	0.00	280121.7448	604345.9727
3005	309+67.58	0.00	280154.9286	604351.2268

HORIZONTAL / VERTICAL CONTROL DATA

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
* TP-4	519+73.82	148.31	279052.1311	603829.4553	44.35

* 0.78' BELOW STATE PLANE DATUM

SCALE 0 60 60 120 180 FEET



Circular Curve No. 1

Curve Set Type: Circular

		STATION	NORTHING	EASTING
PC	(2001)	100+53.39	279056.4072	603679.8037
PI	(2002)	100+62.14	279065.0366	603681.2447
CC	( )		279039.9364	603778.4380
PT	(2003)	100+70.84	279073.2847	603684.1623

Radius: 100.0000
Delta: 10°00'00.0000" Right
Degree of Curvature (Arc): 57°17'44.8062"
Length: 17.4533
Tangent: 8.7489
Chord: 17.4311
Middle Ordinate: 0.3805
External: 0.3820
Tangent Direction: N 9°28'48.9748" E
Radial Direction: S 80°31'11.0252" E
Chord Direction: N 14°28'48.9747" E
Radial Direction: S 70°31'11.0252" E
Tangent Direction: N 19°28'48.9747" E

Circular Curve No. 2

Curve Set Type: Circular

		STATION	NORTHING	EASTING
PC	(2006)	101+03.50	279104.0688	603695.0517
PI	(2007)	101+12.25	279112.3169	603697.9692
CC	( )		279137.4170	603600.7760
PT	(2008)	101+20.95	279120.9462	603699.4103

Radius: 100.0000
Delta: 10°00'00.0000" Left
Degree of Curvature (Arc): 57°17'44.8062"
Length: 17.4533
Tangent: 8.7489
Chord: 17.4311
Middle Ordinate: 0.3805
External: 0.3820
Tangent Direction: N 19°28'48.9747" E
Radial Direction: S 70°31'11.0252" E
Chord Direction: N 14°28'48.9747" E
Radial Direction: S 80°31'11.0252" E
Tangent Direction: N 9°28'48.9747" E

Circular Curve No. 3

Curve Set Type: Circular

		STATION	NORTHING	EASTING
PC	(2009)	103+39.58	279336.5912	603735.4205
PI	(2010)	103+88.84	279385.1768	603743.5338
CC	( )		279319.9855	603834.0322
PT	(2011)	104+31.12	279408.3565	603786.9974

Radius: 100.0000
Delta: 52°26'53.4204" Right
Degree of Curvature (Arc): 57°17'44.8062"
Length: 91.5393
Tangent: 49.2583
Chord: 88.3766
Middle Ordinate: 10.2927
External: 11.4737
Tangent Direction: N 9°28'48.9747" E
Radial Direction: S 80°31'11.0253" E
Chord Direction: N 35°42'15.6849" E
Radial Direction: S 28°04'17.6048" E
Tangent Direction: N 61°55'42.3952" E

Circular Curve No. 4

Curve Set Type: Circular

		STATION	NORTHING	EASTING
PC	(2012)	104+76.26	279429.5998	603826.8300
PI	(2013)	105+25.52	279452.7789	603870.2925
CC	( )		279517.8358	603779.7726
PT	(2014)	105+67.80	279501.3631	603878.4065

Radius: 100.0000
Delta: 52°26'49.2937" Left
Degree of Curvature (Arc): 57°17'44.8062"
Length: 91.5373
Tangent: 49.2571
Chord: 88.3748
Middle Ordinate: 10.2923
External: 11.4731
Tangent Direction: N 61°55'42.3952" E
Radial Direction: S 28°04'17.6048" E
Chord Direction: N 35°42'17.7483" E
Radial Direction: S 80°31'06.8985" E
Tangent Direction: N 9°28'53.1015" E

Circular Curve No. 7

Curve Set Type: Circular

		STATION	NORTHING	EASTING
PC	(2021)	127+87.54	279319.2814	604099.4321
PI	(2022)	128+87.54	279220.6475	604082.9593
CC	( )		279335.7542	604000.7982
PT	(2023)	129+44.62	279237.1203	603984.3254

Radius: 100.0000
Delta: 90°00'00.0000" Right
Degree of Curvature (Arc): 57°17'44.8062"
Length: 157.0796
Tangent: 100.0000
Chord: 141.4214
Middle Ordinate: 29.2893
External: 41.4214
Tangent Direction: S 9°28'53.0977" W
Radial Direction: N 80°31'06.9023" W
Chord Direction: S 54°28'53.0978" W
Radial Direction: N 9°28'53.0978" E
Tangent Direction: N 80°31'06.9023" W

PRELIM. TRACING ____ DESIGN ____ CHKD. ____

8/13/2013
01/09/2007
08:39:59

UNOFFICIAL WEBSITE COPY

C-7	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	8	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

HORIZONTAL AND VERTICAL CONTROL SHEET 3 OF 3

SCALE

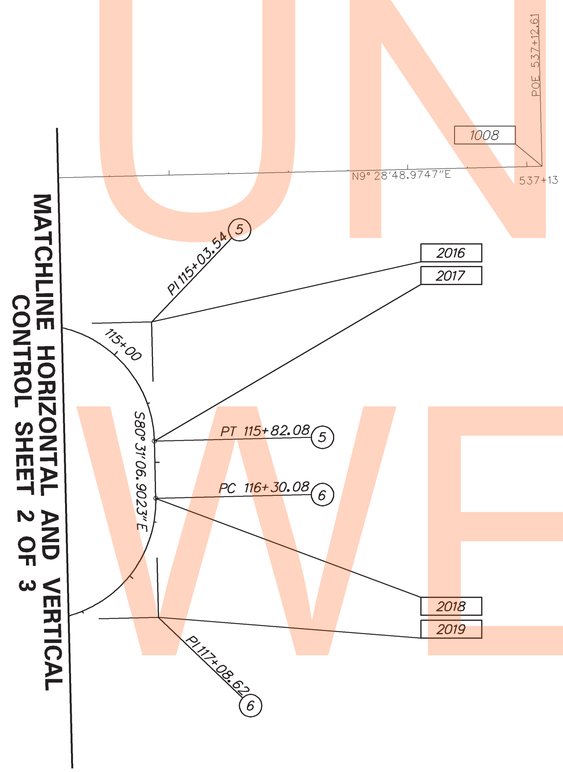
0 60 120 180

FEET

N

REVISIONS	
ADDENDUM 2 4/9/14	

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
1008	537+12.61	0.00	280791.6015	603969.5615
2016	115+25.00	-	280445.4846	604036.0835
2017	115+82.08	0.00	280429.0118	604134.7174
2018	116+30.08	0.00	280421.1049	604182.0617
2019	117+30.08	-	280404.6321	604280.6956



Circular Curve No. (5)			
Curve Set Type: Circular			
		STATION	NORTHING	EASTING
PC	(2015)	114+25.00	280346.8507	604019.6108
PI	(2016)	115+25.00	280445.4846	604036.0835
CC	( )		280330.3779	604118.2447
PT	(2017)	115+82.08	280429.0118	604134.7174
Radius:			100.0000	
Delta:			89°59'59.9963" Right	
Degree of Curvature				
(Arc):			57°17'44.8062"	
Length:			157.0796	
Tangent:			100.0000	
Chord:			141.4214	
Middle Ordinate:			29.2893	
External:			41.4214	
Tangent Direction:			N 9°28'53.1015" E	
Radial Direction:			S 80°31'06.8985" E	
Chord Direction:			N 54°28'53.0996" E	
Radial Direction:			S 9°28'53.0977" W	
Tangent Direction:			S 80°31'06.9023" E	

Circular Curve No. (6)			
Curve Set Type: Circular			
		STATION	NORTHING	EASTING
PC	(2018)	116+30.08	280421.1049	604182.0617
PI	(2019)	117+30.08	280404.6321	604280.6956
CC	( )		280322.4710	604165.5889
PT	(2020)	117+87.16	280305.9982	604264.2229
Radius:			100.0000	
Delta:			90°00'00.0000" Right	
Degree of Curvature				
(Arc):			57°17'44.8062"	
Length:			157.0796	
Tangent:			100.0000	
Chord:			141.4214	
Middle Ordinate:			29.2893	
External:			41.4214	
Tangent Direction:			S 80°31'06.9023" E	
Radial Direction:			S 9°28'53.0977" W	
Chord Direction:			S 35°31'06.9023" E	
Radial Direction:			N 80°31'06.9023" W	
Tangent Direction:			S 9°28'53.0977" W	

PREL. TRACING DESIGN CHKD.

8/13/2013
04:00:00 PT S:\115005.DE (DeDOT A&E Open-End)\115005.01(Task 1,Bridgeville Maintenance Yard)\CADD FILES\HV03_60SCALE.dgn
08:39:45

UNOFFICIAL WEBSITE COPY

C-8	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	9	80

CONSTRUCTION PLANS

SCALE

0 40 80 120

FEET

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14

UNOFFICIAL WEBSITE COPY

PREL. TRACING _____ DESIGN _____ CHKD. _____

8/13/2013
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08:41:29

C-9	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	10	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

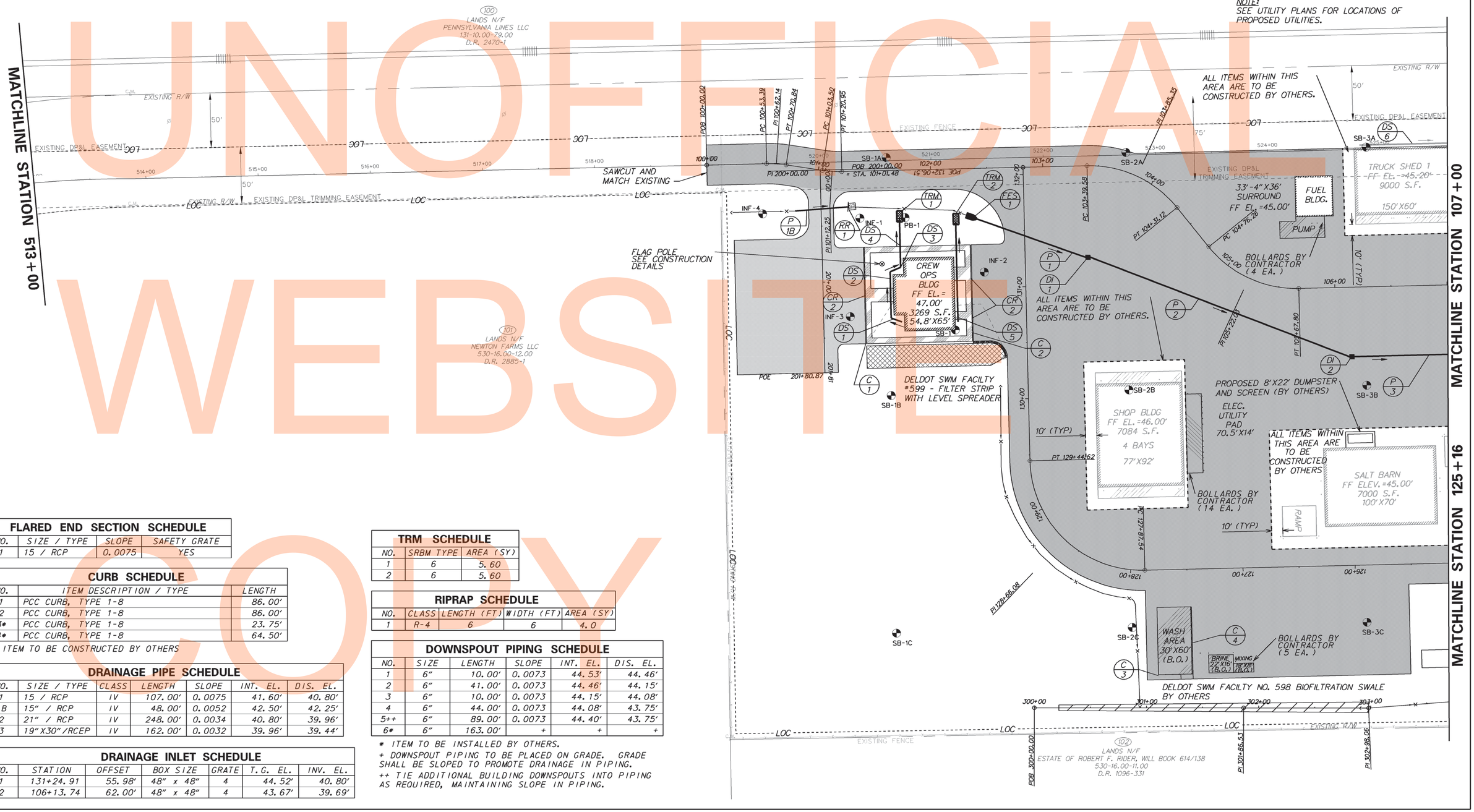
CONSTRUCTION PLANS

SCALE 0 40 80 120 FEET

REVISIONS

ADDENDUM 2 4/9/14

NOTE:
SEE UTILITY PLANS FOR LOCATIONS OF PROPOSED UTILITIES.



FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
1	15 / RCP	0.0075	YES

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	PCC CURB, TYPE 1-8	86.00'
2	PCC CURB, TYPE 1-8	86.00'
3*	PCC CURB, TYPE 1-8	23.75'
4*	PCC CURB, TYPE 1-8	64.50'

* ITEM TO BE CONSTRUCTED BY OTHERS

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	15 / RCP	IV	107.00'	0.0075	41.60'	40.80'
1B	15" / RCP	IV	48.00'	0.0052	42.50'	42.25'
2	21" / RCP	IV	248.00'	0.0034	40.80'	39.96'
3	19"X30"/RCEP	IV	162.00'	0.0032	39.96'	39.44'

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
1	131+24.91	55.98'	48" x 48"	4	44.52'	40.80'
2	106+13.74	62.00'	48" x 48"	4	43.67'	39.69'

TRM SCHEDULE

NO.	SRBM TYPE	AREA (SY)
1	6	5.60
2	6	5.60

RIPRAP SCHEDULE

NO.	CLASS	LENGTH (FT)	WIDTH (FT)	AREA (SY)
1	R-4	6	6	4.0

DOWNSPOUT PIPING SCHEDULE

NO.	SIZE	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	6"	10.00'	0.0073	44.53'	44.46'
2	6"	41.00'	0.0073	44.46'	44.15'
3	6"	10.00'	0.0073	44.15'	44.08'
4	6"	44.00'	0.0073	44.08'	43.75'
5++	6"	89.00'	0.0073	44.40'	43.75'
6*	6"	163.00'	+	+	+

* ITEM TO BE INSTALLED BY OTHERS.
\+ DOWNSPOUT PIPING TO BE PLACED ON GRADE. GRADE SHALL BE SLOPED TO PROMOTE DRAINAGE IN PIPING.
++ TIE ADDITIONAL BUILDING DOWNSPOUTS INTO PIPING AS REQUIRED, MAINTAINING SLOPE IN PIPING.

PREL. TRACING ____ DESIGN ____ CHKD. ____

12/18/2013
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19:36:44

UNOFFICIAL WEBSITE COPY

C-10	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	11	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

CONSTRUCTION PLANS

SCALE 0 40 80 120 FEET

REVISIONS

ADDENDUM 2 4/9/14

NOTE:
SEE UTILITY PLANS FOR LOCATIONS OF PROPOSED UTILITIES.

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
4	24"X38"/RCEP	IV	289.00'	0.0032	39.44'	38.52'
7	36" / HDPE	-	127.50'	0.0035	38.07'	37.62'
8*	42" / HDPE	-	60.00'	0.0037	36.82'	36.60'
9*	36" / RCP	IV	136.00'	0.0035	36.60'	36.12'
10*	36" / RCP	IV	272.00'	0.0036	36.02'	35.03'
11	15" / HDPE	-	79.00'	0.0051	38.92'	38.52'
12	15" / RCP	IV	196.00'	0.0072	40.86'	39.44'

* ITEM TO BE INSTALLED BY OTHERS.

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
3	107+80.03	62.00'	48" x 48"	4	43.37'	39.44'
6	111+00.00	-20.00'	34" x 24"	3	43.50'	40.15'

RIPRAP SCHEDULE

NO.	CLASS	LENGTH (FT)	WIDTH (FT)	AREA (SY)
2	R-4	11.0	6.0	7.3
3	R-4	14.0	6.0	9.3
4	R-4	14.0	6.0	9.3

DOWNSPOUT PIPING SCHEDULE

NO.	SIZE	LENGTH	SLOPE	INT. EL.	DIS. EL.
7*	6"	62.00'	+	+	+
8*	8"	10.00'	+	+	+
9*	6"	62.00'	+	+	+
10*	6"	133.00'	+	+	+
11*	8"	10.00'	+	+	+

* ITEM TO BE INSTALLED BY OTHERS.
+ DOWNSPOUT PIPING TO BE PLACED ON GRADE. GRADE SHALL BE SLOPED TO PROMOTE DRAINAGE IN PIPING.

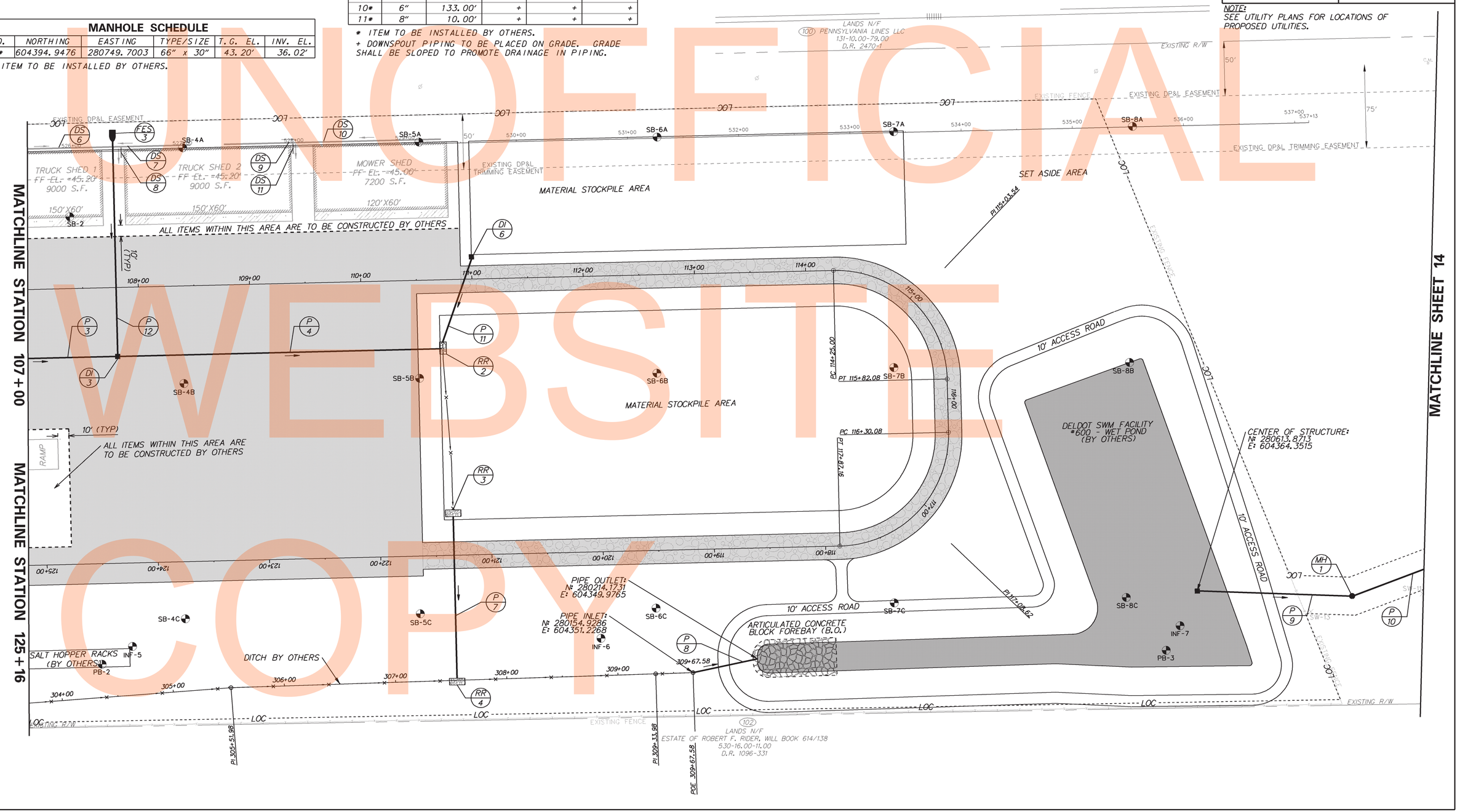
FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
3	15 / RCP	0.0072	YES

MANHOLE SCHEDULE

NO.	NORTHING	EASTING	TYPE/SIZE	T.G. EL.	INV. EL.
1*	604394.9476	280749.7003	66" x 30"	43.20'	36.02'

* ITEM TO BE INSTALLED BY OTHERS.



UNOFFICIAL WEBSITE COPY

PREL. TRACING _____ DESIGN _____ CHKD. _____

11/26/2013
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09:28:46

C-11	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	12	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

CONSTRUCTION PLANS

SCALE

0 40 80 120

FEET

N

REVISIONS

ADDENDUM 2 4/9/14	

NOTE:
SEE UTILITY PLANS FOR LOCATIONS OF PROPOSED UTILITIES.

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
10*	36" / RCP	IV	272.00'	0.0035	36.02'	35.06'

* ITEM CONSTRUCTED BY OTHERS

ENERGY DISSIPATOR SCHEDULE

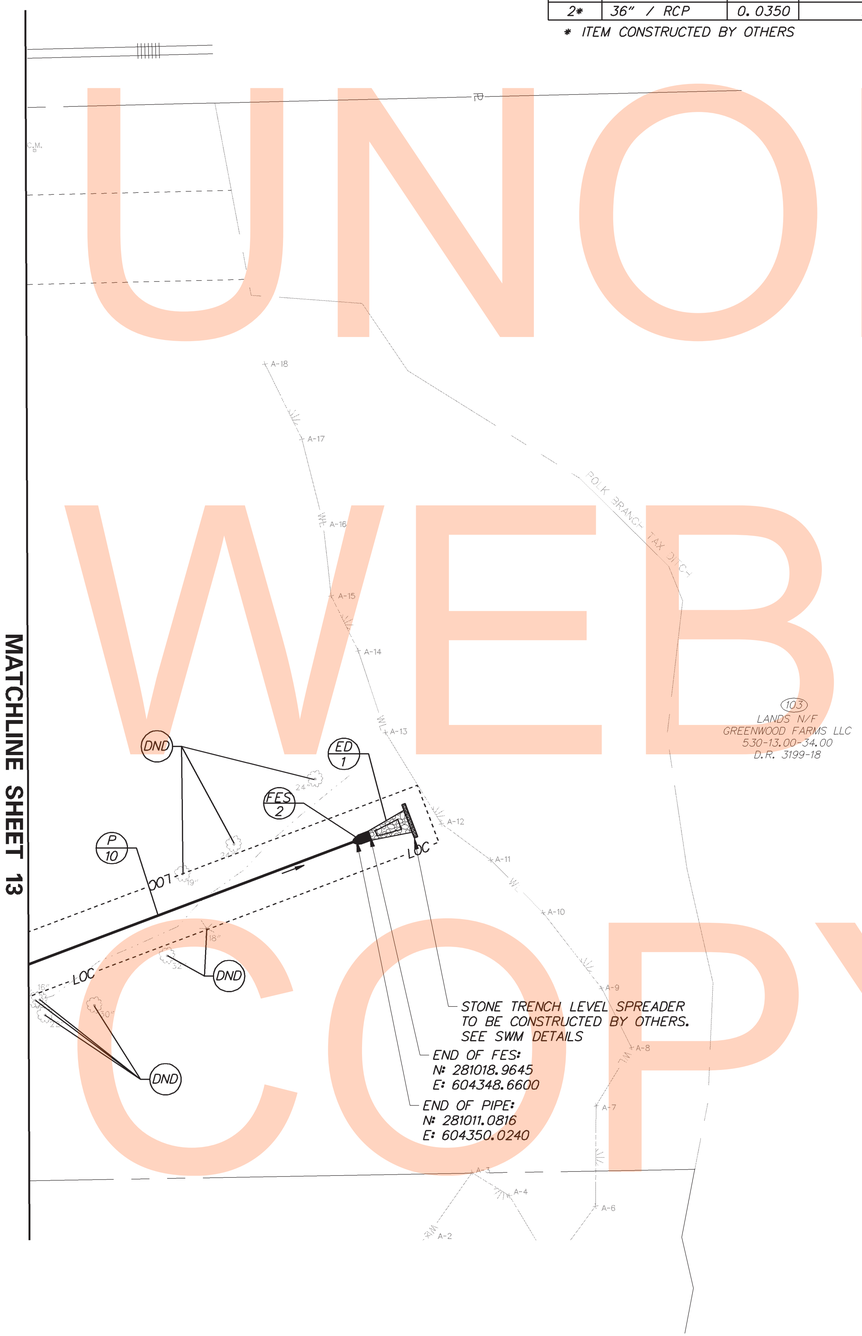
NO	STATION	OFFSET	RIPRAP SIZE	D (FT)	T1 (FT)	L (FT)	W1 (FT)	W2 (FT)	EL. (FT)
1*	116+38.00	637.00'	R-5	1.50'	1.83'	14.00'	3.00'	6.00'	35.00'

* ITEM CONSTRUCTED BY OTHERS

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
2*	36" / RCP	0.0350	NO

* ITEM CONSTRUCTED BY OTHERS



PREL. TRACING DESIGN CHKD.

8/13/2013
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0843347

UNOFFICIAL WEBSITE COPY

C-12	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	13	80

VERTICAL SCALE FEET 0 5 10

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

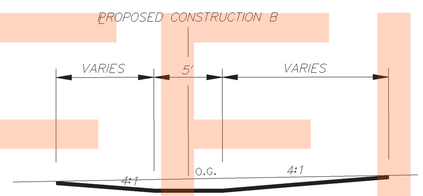
ADDENDUM 2 4/9/14

PROFILE

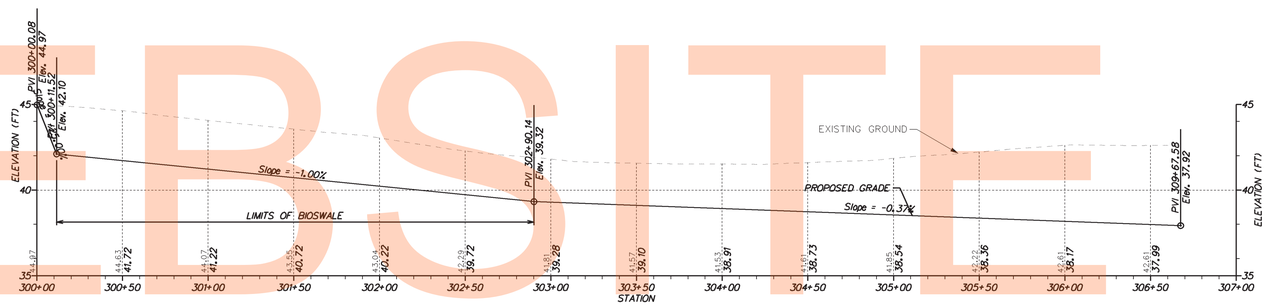
SCALE

0 40 80 120

FEET



TYPICAL SECTION
STATION 300+00 TO 312+93



Biofiltration Swale

NOTE: DITCH AND BIOSWALE TO BE CONSTRUCTED BY OTHERS

PREL. TRACING _____ DESIGN _____ CHKD. _____

8/19/2013
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14420406

UNOFFICIAL WEBSITE COPY

C-13	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	14	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14

SITE AND BUILDING LAYOUT

SCALE 0 40 80 120 FEET

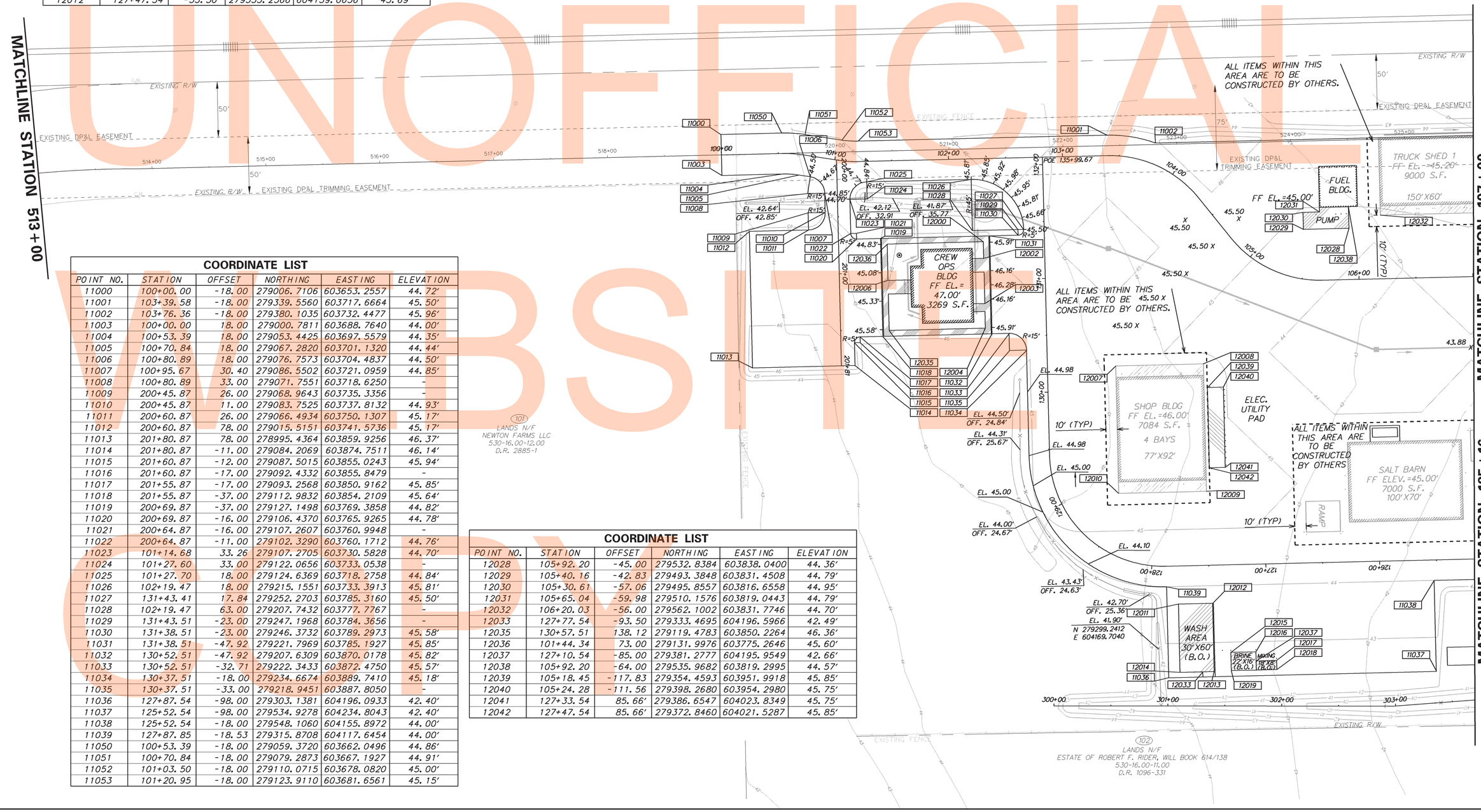
UNOFFICIAL VERSION

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
12000	131+33.51	-53.67'	279215.3019	603789.1779	46.62'
12002	131+18.88	-53.67'	279212.8924	603803.6041	46.82'
12003	130+79.20	-53.67'	279206.3551	603842.7477	46.89'
12004	130+57.51	-53.67'	279202.7826	603864.1390	46.68'
12006	101+44.34	105.00	279126.7263	603806.8275	45.92'
12007	130+21.62	60.00	279308.9846	603918.2610	45.50'
12008	105+12.23	101.29	279384.9327	603930.9450	45.50'
12009	127+50.54	65.00	279366.4832	604041.4150	45.66'
12010	128+72.74	46.85	279290.5351	604028.7309	45.66'
12011	127+77.54	-33.50'	279323.6264	604134.1217	43.69'
12012	127+47.54	-33.50'	279353.2566	604139.0636	43.69'

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
12013	127+47.54	-93.50'	279343.3329	604198.2439	42.49'
12014	127+77.54	-93.50'	279313.7428	604193.3021	42.49'
12015	127+32.54	-77.00	279360.8460	604184.4402	42.82'
12016	127+10.54	-77.00	279382.5455	604188.0642	42.82'
12017	126+92.54	-85.00	279398.9818	604198.9200	42.66'
12018	126+92.54	-93.00	279397.6639	604206.8107	42.50'
12019	127+32.54	-93.00	279358.2104	604200.2216	42.50'



COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
11000	100+00.00	-18.00	279006.7106	603653.2557	44.72'
11001	103+39.58	-18.00	279339.5560	603717.6664	45.50'
11002	103+76.36	-18.00	279380.1035	603732.4477	45.96'
11003	100+00.00	18.00	279000.7811	603688.7640	44.00'
11004	100+53.39	18.00	279053.4425	603697.5579	44.35'
11005	100+70.84	18.00	279067.2820	603701.1320	44.44'
11006	100+80.89	18.00	279076.7573	603704.4837	44.50'
11007	100+95.67	30.40	279086.5502	603721.0959	44.85'
11008	100+80.89	33.00	279071.7551	603718.6250	-
11009	200+45.87	26.00	279068.9643	603735.3356	-
11010	200+45.87	11.00	279083.7525	603737.8132	44.93'
11011	200+60.87	26.00	279066.4934	603750.1307	45.17'
11012	200+60.87	78.00	279015.5151	603741.5736	45.17'
11013	201+80.87	78.00	278995.4364	603859.9256	46.37'
11014	201+80.87	-11.00	279084.2069	603874.7511	46.14'
11015	201+60.87	-12.00	279087.5015	603855.0243	45.94'
11016	201+60.87	-17.00	279092.4332	603855.8479	-
11017	201+55.87	-17.00	279093.2568	603850.9162	45.85'
11018	201+55.87	-37.00	279112.9832	603854.2109	45.64'
11019	200+69.87	-37.00	279127.1498	603769.3858	44.82'
11020	200+69.87	-16.00	279106.4370	603765.9265	44.78'
11021	200+64.87	-16.00	279107.2607	603760.9948	-
11022	200+64.87	-11.00	279102.3290	603760.1712	44.76'
11023	101+14.68	33.26	279107.2705	603730.5828	44.70'
11024	101+27.60	33.00	279122.0656	603733.0538	-
11025	101+27.70	18.00	279124.6369	603718.2758	44.84'
11026	102+19.47	18.00	279215.1551	603733.3913	45.81'
11027	131+43.41	17.84	279252.2703	603785.3160	45.50'
11028	102+19.47	63.00	279207.7432	603777.7767	-
11029	131+43.51	-23.00	279247.1968	603784.3656	-
11030	131+38.51	-23.00	279246.3732	603789.2973	45.58'
11031	131+38.51	-47.92	279221.7969	603785.1927	45.85'
11032	130+52.51	-47.92	279207.6309	603870.0178	45.82'
11033	130+52.51	-32.71	279222.3433	603872.4750	45.57'
11034	130+37.51	-18.00	279234.6674	603889.7410	45.18'
11035	130+37.51	-33.00	279218.9451	603887.8050	-
11036	127+87.54	-98.00	279303.1381	604196.0933	42.40'
11037	125+52.54	-98.00	279534.9278	604234.8043	42.40'
11038	125+52.54	-18.00	279548.1060	604155.8972	44.00'
11039	127+87.85	-18.53	279315.8708	604117.6454	44.00'
11050	100+53.39	-18.00	279059.3720	603662.0496	44.86'
11051	100+70.84	-18.00	279079.2873	603667.1927	44.91'
11052	101+03.50	-18.00	279110.0715	603678.0820	45.00'
11053	101+20.95	-18.00	279123.9110	603681.6561	45.15'

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
12028	105+92.20	-45.00	279532.8384	603838.0400	44.36'
12029	105+40.16	-42.83	279493.3848	603831.4508	44.79'
12030	105+30.61	-57.06	279495.8557	603816.6558	44.95'
12031	105+65.04	-59.98	279510.1576	603819.0443	44.79'
12032	106+20.03	-56.00	279562.1002	603831.7746	44.70'
12033	127+77.54	-93.50	279333.4695	604196.5966	42.49'
12035	130+57.51	138.12	279119.4783	603850.2264	46.36'
12036	101+44.34	73.00	279131.9976	603775.2646	45.60'
12037	127+10.54	-85.00	279381.2777	604195.9549	42.66'
12038	105+92.20	-64.00	279535.9682	603819.2995	44.57'
12039	105+18.45	-117.83	279354.4593	603951.9918	45.85'
12040	105+24.28	-111.56	279398.2680	603954.2980	45.75'
12041	127+33.54	85.66'	279386.6547	604023.8349	45.75'
12042	127+47.54	85.66'	279372.8460	604021.5287	45.85'

COPY

PREL. TRACING ____ DESIGN ____ CHKD. ____

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02:34:46 PM
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13-24114

C-14	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	15	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14

SITE AND BUILDING LAYOUT

SCALE

0 40 80 120

FEET

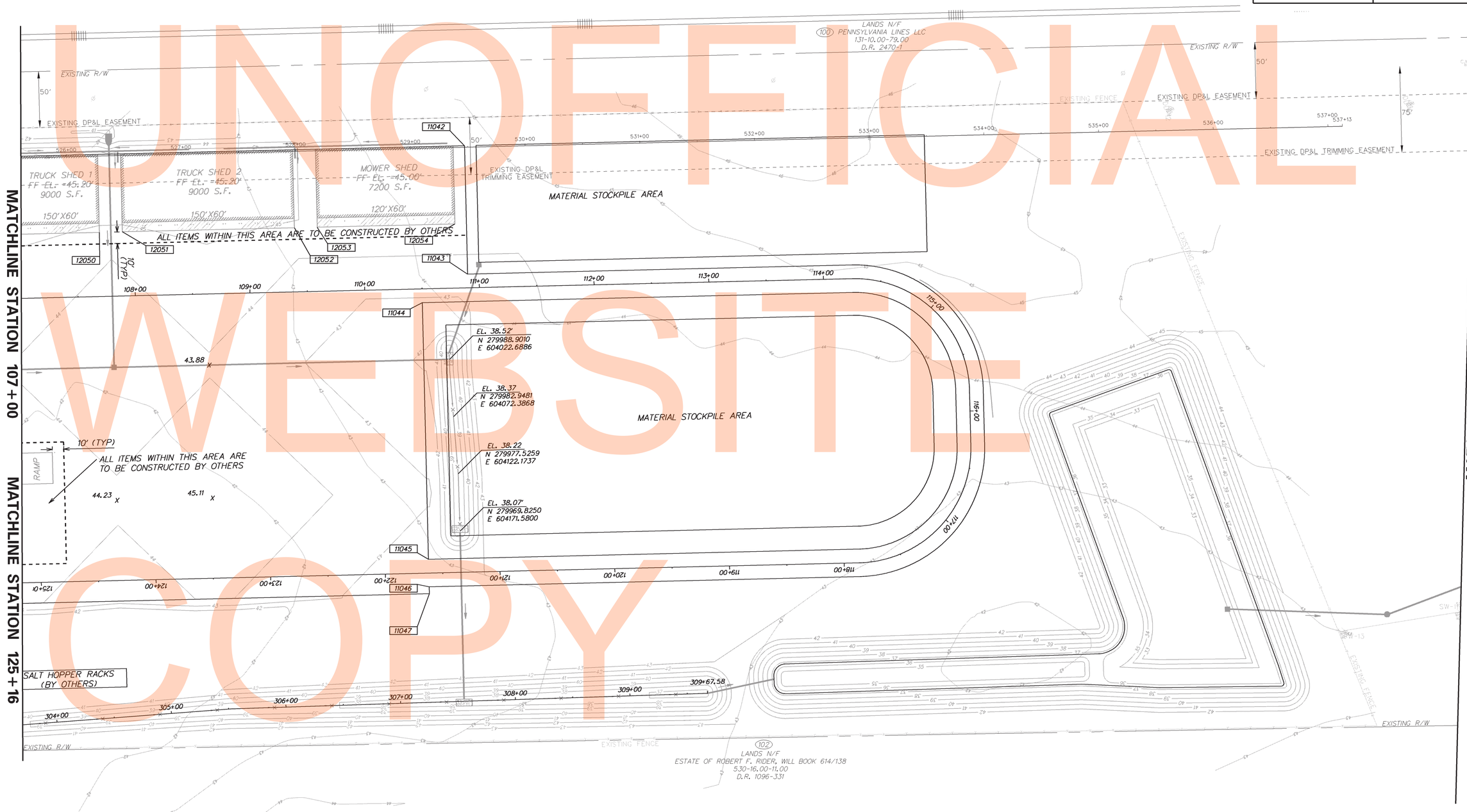
N

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
12050	107+70.03	-56.00	279710.0511	603856.4838	44.92'
12051	107+90.03	-56.00	279729.7783	603851.2007	44.92'
12052	109+40.03	-56.00	279877.7287	603884.4875	44.92'
12053	109+60.03	-56.00	279897.4555	603887.7820	44.74'
12054	110+80.03	-56.00	280015.8162	603907.5493	44.74'

COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
11042	110+90.03	-124.00	280036.8811	603842.1256	44.74'
11043	110+90.03	-12.00	280018.4315	603952.5955	43.54'
11044	110+50.03	12.00	279975.0245	603969.6786	42.90'
11045	121+62.13	12.00	279938.1255	604190.6185	42.52'
11046	121+62.13	-12.00	279934.1721	604214.2907	42.26'
11047	121+62.13	-18.00	279933.1837	604220.2087	42.20'



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C-15	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	16	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

SITE AND BUILDING LAYOUT

SCALE

0 40 80 120

FEET

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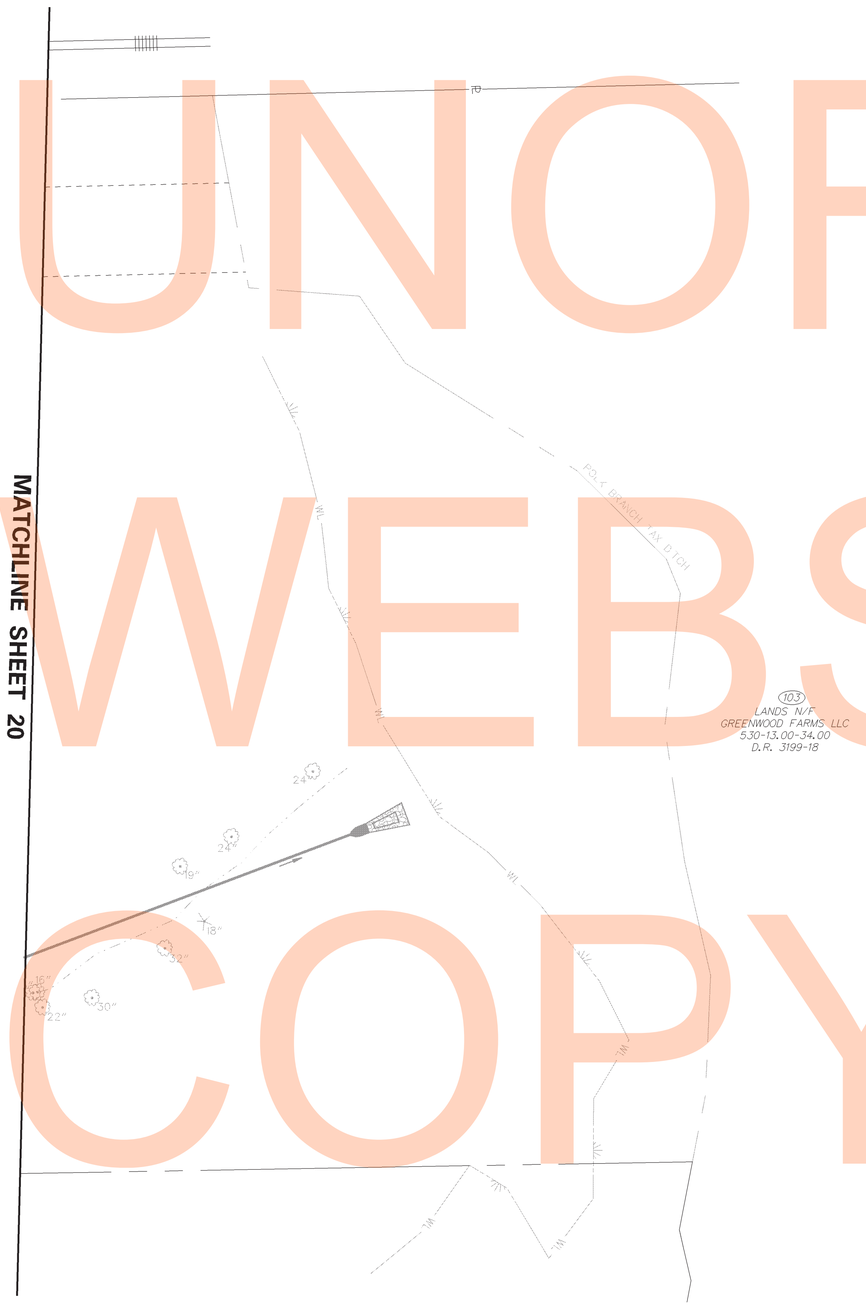
REVISIONS

ADDENDUM 2 4/9/14



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04-MAR-2014
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C-16	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	17	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14

SITE AND BUILDING LAYOUT

SCALE 0 40 80 120 FEET

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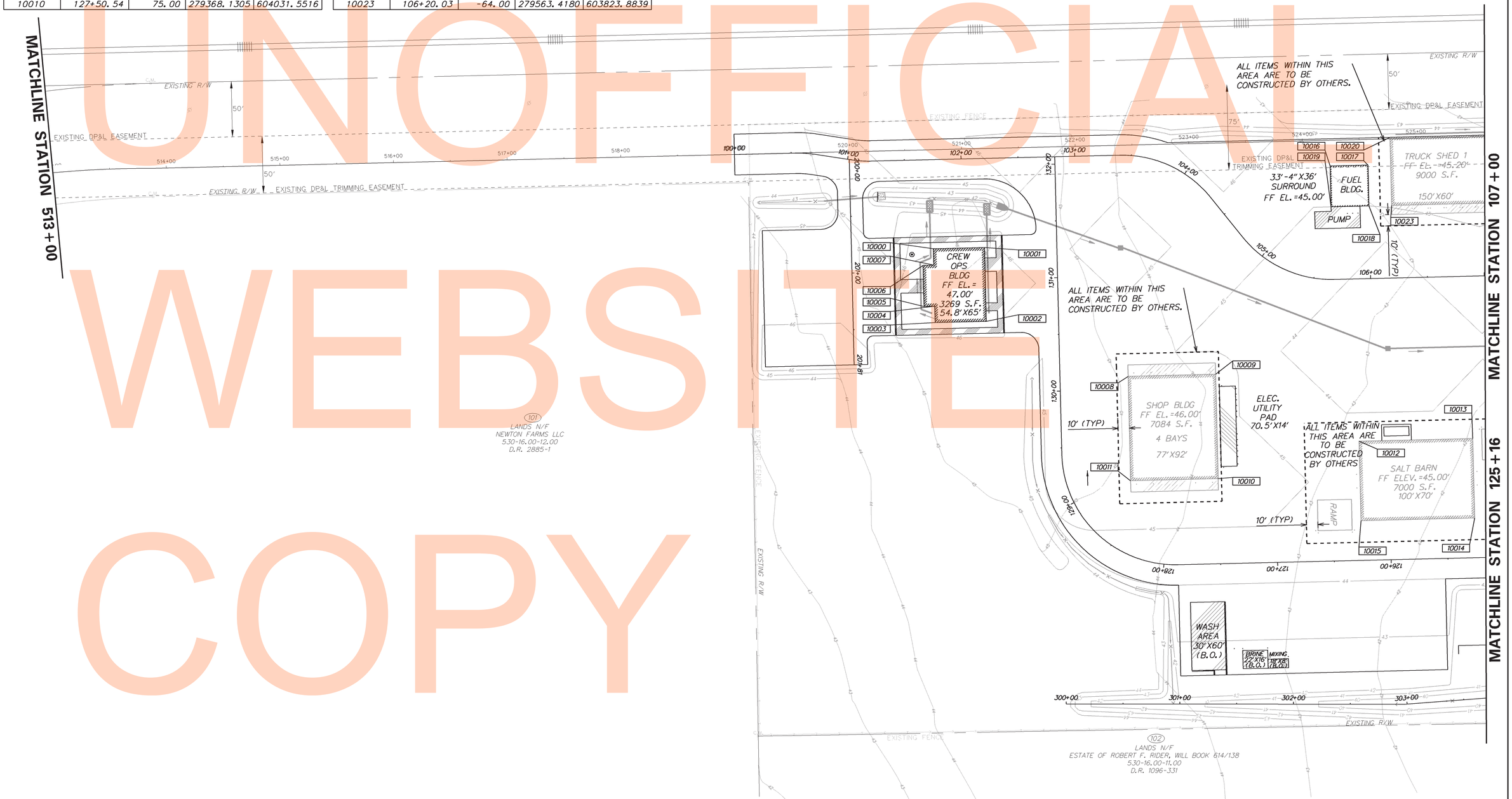
BUILDING COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
10000	200+80.37	72.21	279160.1472	603785.5420
10001	200+80.37	117.21	279204.5325	603792.9548
10002	201+45.37	117.21	279193.8252	603857.0668
10003	201+45.37	72.21	279149.4399	603849.6541
10004	201+31.04	72.21	279151.8005	603835.5198
10005	201+31.04	62.75	279142.4717	603833.9619
10006	200+94.70	62.75	279148.4579	603798.1183
10007	200+94.70	72.21	279157.7867	603799.6763
10008	130+11.62	60.00	279307.3373	603928.1243
10009	105+14.75	110.53	279383.2855	603940.8084
10010	127+50.54	75.00	279368.1305	604031.5516

BUILDING COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
10011	128+88.76	52.83	279292.1824	604018.8675
10012	126+25.68	105.00	279496.2236	604022.5288
10013	125+25.68	105.00	279594.8575	604039.0016
10014	125+25.68	35.00	279583.3266	604108.0453
10015	126+25.68	35.00	279484.6927	604091.5725
10016	104+75.59	-99.12	279516.7468	603779.5908
10017	106+00.03	-100.00	279549.6214	603785.0811
10018	106+00.03	-64.00	279543.6912	603820.5893
10019	105+64.74	-63.98	279510.8166	603815.0990
10020	106+20.03	-124.00	279573.3017	603764.7035
10023	106+20.03	-64.00	279563.4180	603823.8839



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8/13/2013
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C-17	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	18	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14

SITE AND BUILDING LAYOUT

SCALE

0 40 80 120

FEET

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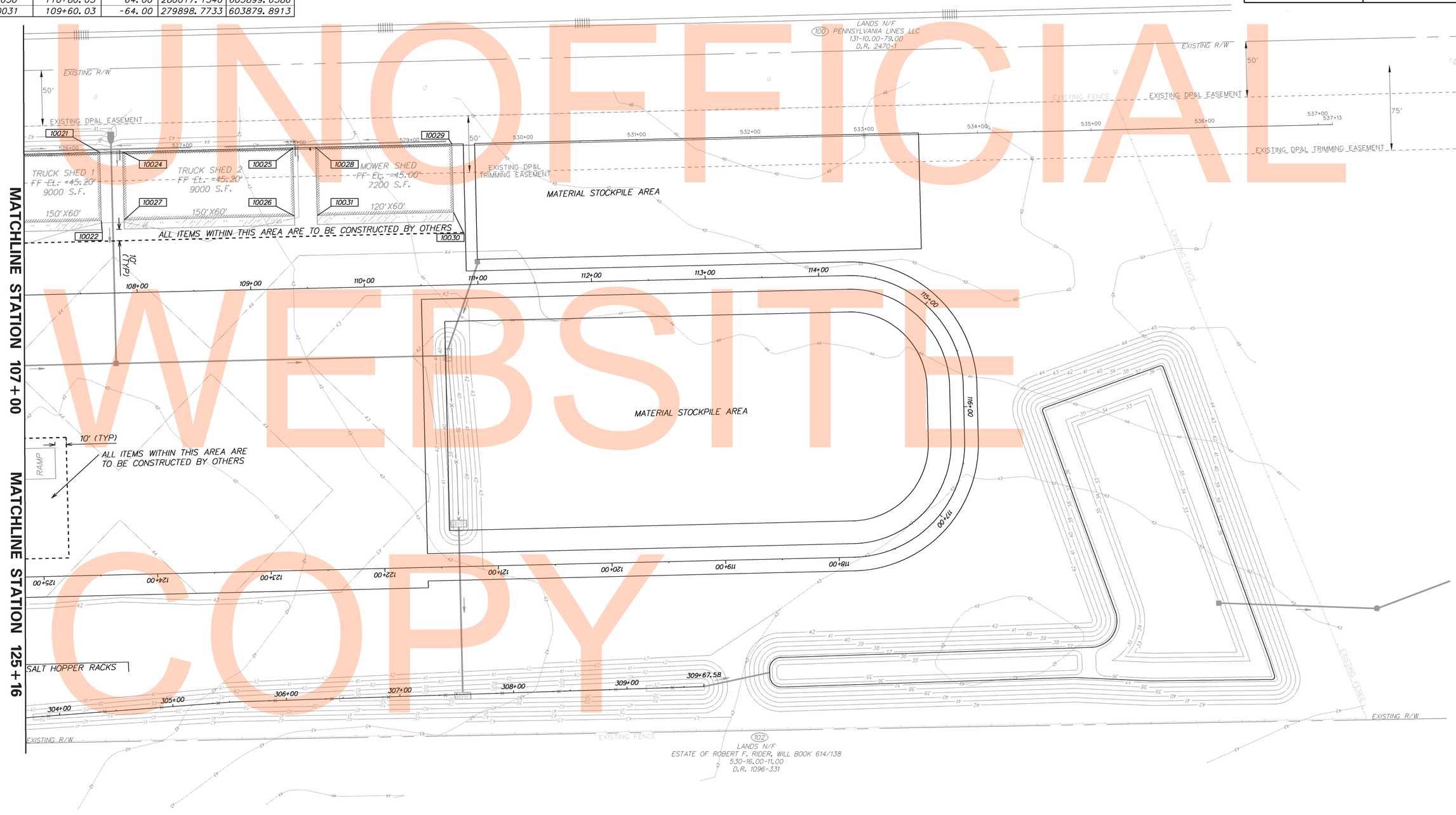
BUILDING COORDINATE LIST

POINT NO.	STATION	OFFSET	NORTHING	EASTING
10021	107+70.03	-124.00	279721.2525	603789.4127
10022	107+70.03	-64.00	279711.3689	603848.5930
10024	107+90.03	-124.00	279740.9793	603792.7072
10025	109+40.03	-124.00	279888.9302	603817.4164
10026	109+40.03	-64.00	279879.0465	603876.5967
10027	107+90.03	-64.00	279731.0957	603851.8876
10028	109+60.03	-124.00	279908.6570	603820.7110
10029	110+80.03	-124.00	280027.0177	603840.4783
10030	110+80.03	-64.00	280017.1340	603899.6586
10031	109+60.03	-64.00	279898.7733	603879.8913



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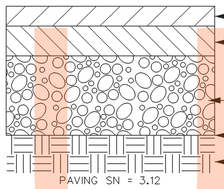
CONSTRUCTION DETAILS

C-18	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	19	80

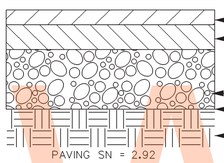
BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

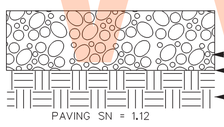
ADDENDUM 2 4/9/14



PAVEMENT SECTION 1
OPERATIONAL AREA & ENTRANCE ROAD



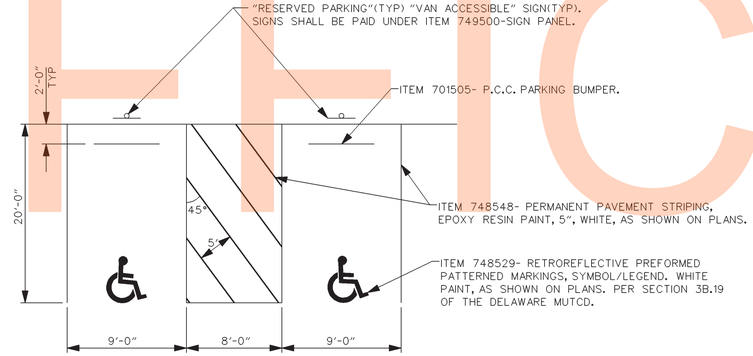
PAVEMENT SECTION 2
CREW OPERATIONS FACILITY PARKING LOT



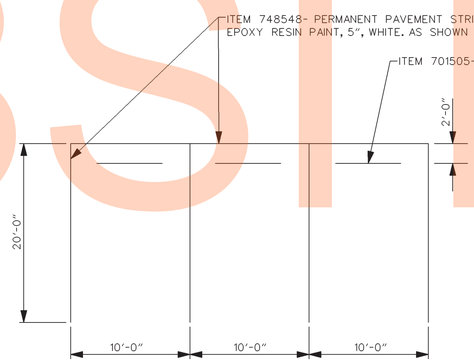
PAVEMENT SECTION 3
MATERIAL STOCKPILE AREA LOOP ROAD

PAVEMENT SECTION DETAILS

SCALE: NONE

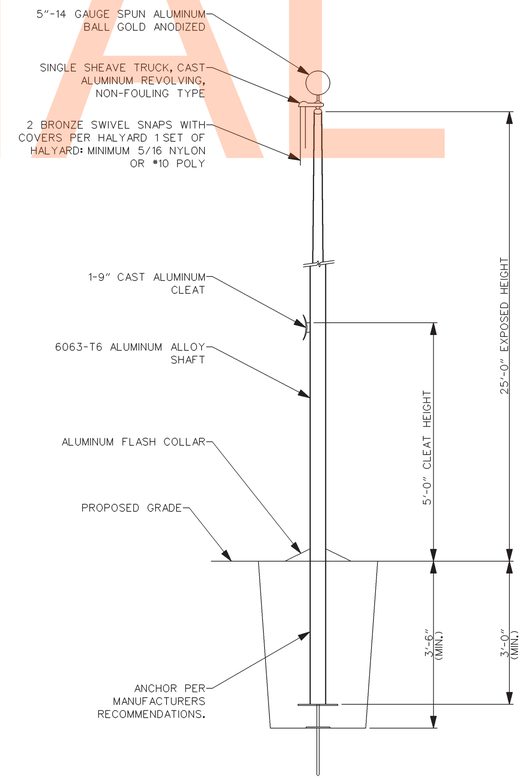


ACCESSIBLE PARKING DETAIL



PARKING DETAIL

SCALE: NONE



FLAG POLE DETAIL

SCALE: NONE

NOTES:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS FOR ALL COMPONENTS AND FOUNDATIONS ASSOCIATED WITH THE CONSTRUCTION OF THE FLAG POLE.
2. CONTRACTOR MAY SUBMIT AN ALTERNATIVE DESIGN FOR FLAG POLE AND FOUNDATION DESIGN TO THE ENGINEER FOR APPROVAL.
3. ALL ITEMS REQUIRED TO CONSTRUCT AND INSTALL FLAG POLE, INCLUDING BUT NOT LIMITED TO MATERIAL, EXCAVATION, BACK FILL, SHOP DRAWINGS, AND ANCHORING SHALL BE INCLUDED IN ITEM 763538- MAINTENANCE BUILDING.
4. THERE SHALL BE NO SEPARATE PAY ITEM FOR ANY PART OF THIS ITEM.
5. POLE SHALL HAVE DIRECTIONAL SANDED SATIN BRUSHED ALUMINUM FINISH.
6. SEE ELECTRICAL PLANS FOR DETAIL ON LIGHTING.
7. FLAG POLE SHALL BE LOCATED IN GRASSED AREA SURROUNDING CREW OPS BUILDING. CONTRACTOR SHALL COORDINATE LOCATION WITH ENGINEER.

PRIEL. TRACING ____ DESIGN ____ CHKD. ____

8/13/2013
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UNOFFICIAL WEBSITE COPY

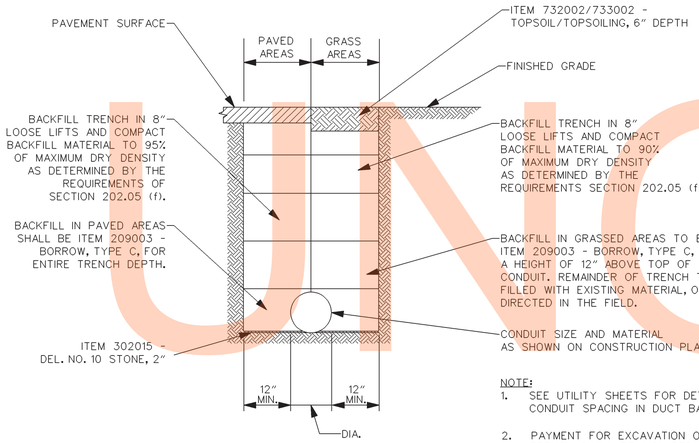
CONSTRUCTION DETAILS

C-19	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	20	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

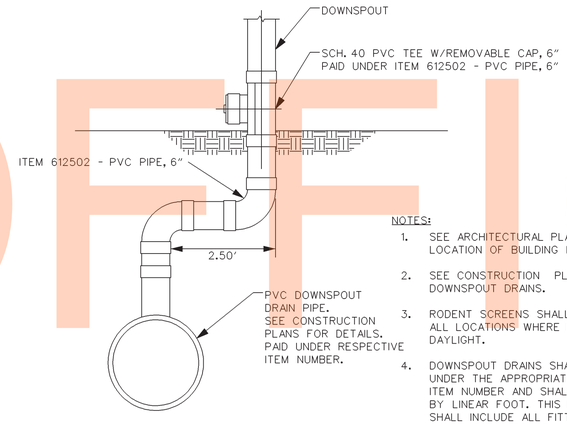
REVISIONS

ADDENDUM 2 4/9/14



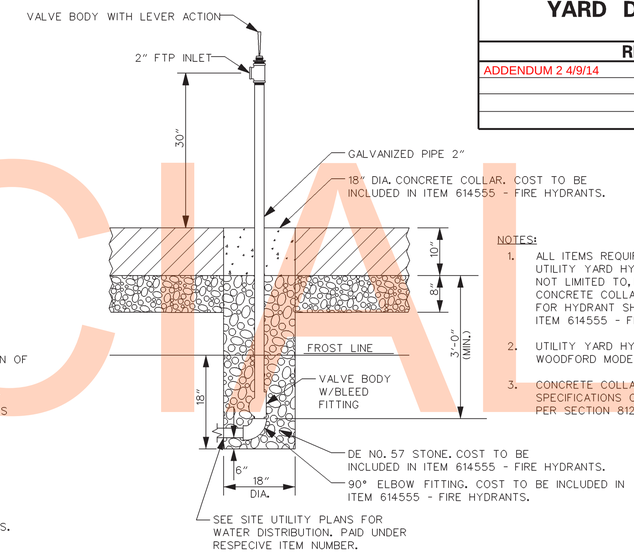
NOTE:
1. SEE UTILITY SHEETS FOR DETAIL OF CONDUIT SPACING IN DUCT BANKS.
2. PAYMENT FOR EXCAVATION OF UTILITY CONDUIT TRENCH SHALL BE INCLUDED IN THE PRICE BID FOR CONDUIT.

UTILITY CONDUIT TRENCHING DETAIL
SCALE: NONE



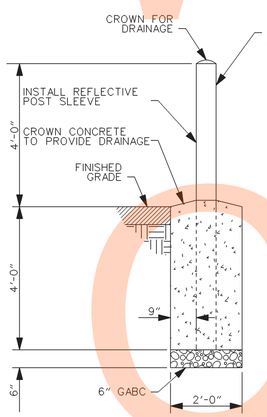
NOTES:
1. SEE ARCHITECTURAL PLANS FOR LOCATION OF BUILDING DOWNSPOUTS.
2. SEE CONSTRUCTION PLANS FOR LOCATION OF DOWNSPOUT DRAINS.
3. RODENT SCREENS SHALL BE PROVIDED AT ALL LOCATIONS WHERE DOWNSPOUT DRAINS DAYLIGHT.
4. DOWNSPOUT DRAINS SHALL BE PAID UNDER THE APPROPRIATE PVC PIPE ITEM NUMBER AND SHALL BE PAID BY LINEAR FOOT. THIS PAYMENT SHALL INCLUDE ALL FITTINGS, ADAPTERS, CONNECTIONS TO DRAINAGE INLETS OR STORM DRAIN PIPES, AND RODENT SCREENS.
5. CLEANOUTS SHALL BE PROVIDED AT ALL BENDS THAT DO NOT OCCUR AT A DOWNSPOUT. ALL COSTS INCIDENTAL TO PIPE BEING INSTALLED.

DRAIN PIPE DETAIL
SCALE: NONE



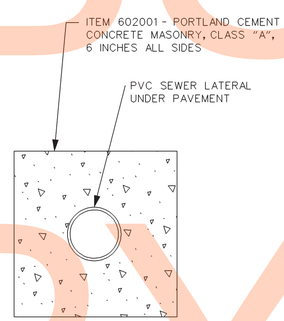
NOTES:
1. ALL ITEMS REQUIRED TO CONSTRUCT UTILITY YARD HYDRANT, INCLUDING, BUT NOT LIMITED TO, HYDRANT, FITTINGS, CONCRETE COLLAR, BEDDING, AND EXCAVATION FOR HYDRANT SHALL BE PAID UNDER ITEM 614555 - FIRE HYDRANTS.
2. UTILITY YARD HYDRANTS SHALL BE FREEZE PROOF, WOODFORD MODEL U200W OR APPROVED EQUAL.
3. CONCRETE COLLAR SHALL MEET SPECIFICATIONS OF CLASS B CONCRETE PER SECTION 812.

UTILITY YARD HYDRANT DETAIL
SCALE: NONE



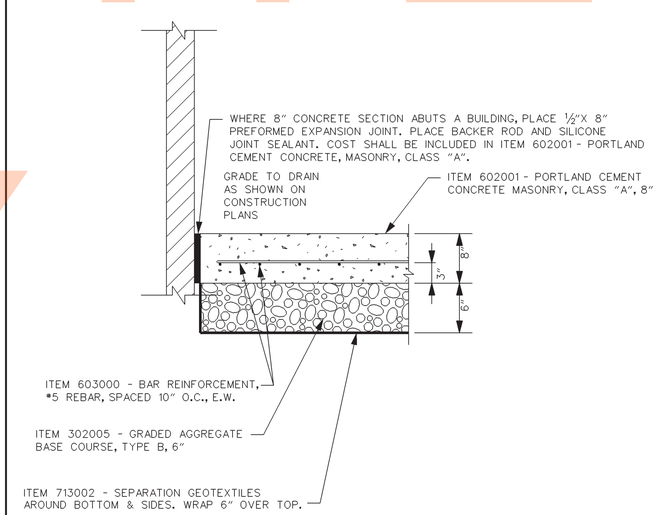
NOTES:
1. ALL CONCRETE TO BE CLASS B PER SECTION 812.
2. POST SLEEVES SHALL BE BARLO PRODUCTS, YELLOW WITH RED REFLECTIVE TAPE, OR APPROVED EQUAL.
3. COST FOR BOLLARDS INCLUDING CONCRETE, GABC, STEEL, EXCAVATION, AND REFLECTIVE COVER SHALL BE INCLUDED IN ITEM 720578 - STEEL BOLLARD.

BOLLARD DETAIL
SCALE: NONE



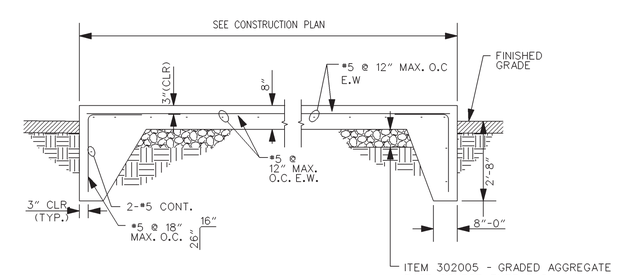
SEWER LATERAL ENCASEMENT
SCALE: NONE

CONTRACTOR TO CONSTRUCT UTILITY PAD ONLY.
ALL OTHER CONCRETE APRONS TO BE CONSTRUCTED BY OTHERS.



8" CONCRETE APRON/SLAB
SCALE: NONE

NOTES:
1. THE 8" CONCRETE SECTION SHALL BE CONSTRUCTED TO SIZES AND ELEVATIONS SHOWN IN THE CONSTRUCTION PLANS. LOCATIONS WHERE THE 8" CONCRETE SECTION SHALL BE PLACED INCLUDE THE WASH AREA, BRINE STORAGE AND MIXING STATION, ELECTRIC UTILITY PAD, AND APRONS FOR THE SHOP BUILDING, TRUCK SHEDS, AND MOWER SHED. TRANSVERSE CONTROL JOINTS SHALL BE LOCATED A MAXIMUM OF 12 FEET ON CENTER.
2. ANY ANCHORS INSTALLED IN THE CONCRETE TO FACILITATE INSTALLATION OF ELECTRICAL EQUIPMENT, RACKING, OR OTHER ITEMS SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. COST SHALL BE INCIDENTAL TO ITEM 602001, PORTLAND CEMENT CONCRETE.
3. THE ELECTRIC UTILITY PAD SHALL BE ELEVATED ABOVE THE PAVED GRADE BY 4". ELEVATIONS OF THE UTILITY PAD ARE PROVIDED ON THE SITE AND BUILDING LAYOUT SHEETS. WARP PAVEMENT AROUND PAD TO MAINTAIN A CONSISTENT 4" REVEAL. EXPOSED EDGES SHALL BE CHAMFERED ¾".
4. EXCAVATION AND BACKFILL FOR UTILITY PADS SHALL BE INCIDENTAL TO ITEM 602001 - P.C.C. MASONRY, CLASS A.



UTILITY PAD SECTION
SCALE: 1/2"=1'-0"

PREL. TRACING ____ DESIGN ____ CHKD. ____

8/13/2013
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09/20/02

UNOFFICIAL WEBSITE COPY

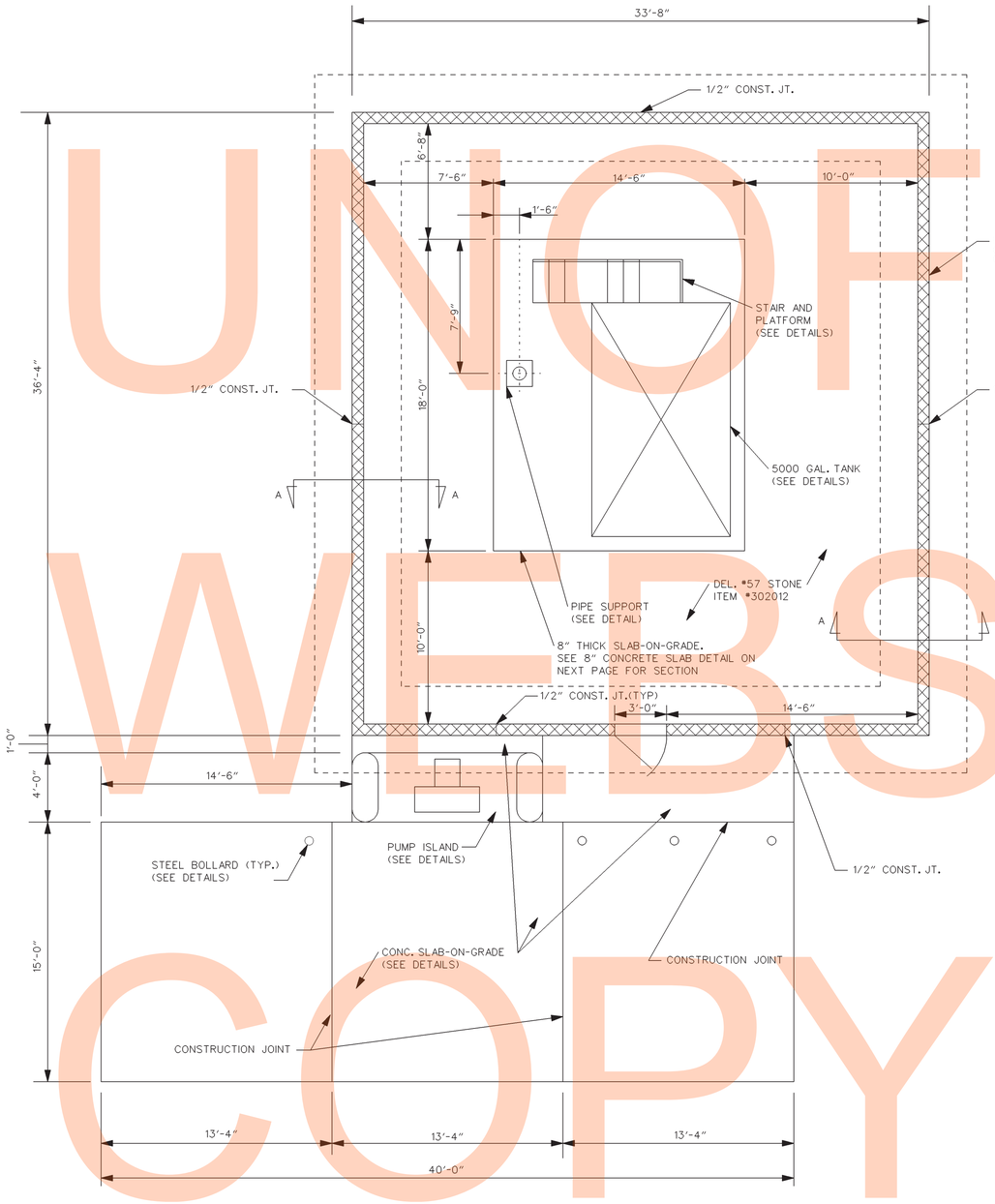
C-20	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	21	80

CONSTRUCTION DETAILS
FUEL DEPOT PLANS & ELEVATION

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

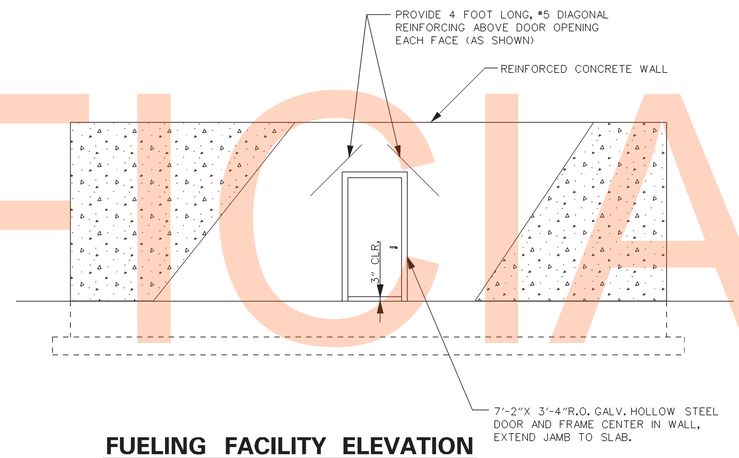
REVISIONS

ADDENDUM 2 4/9/14



FUELING FACILITY PLAN

SCALE: 1/4"= 1'-0"

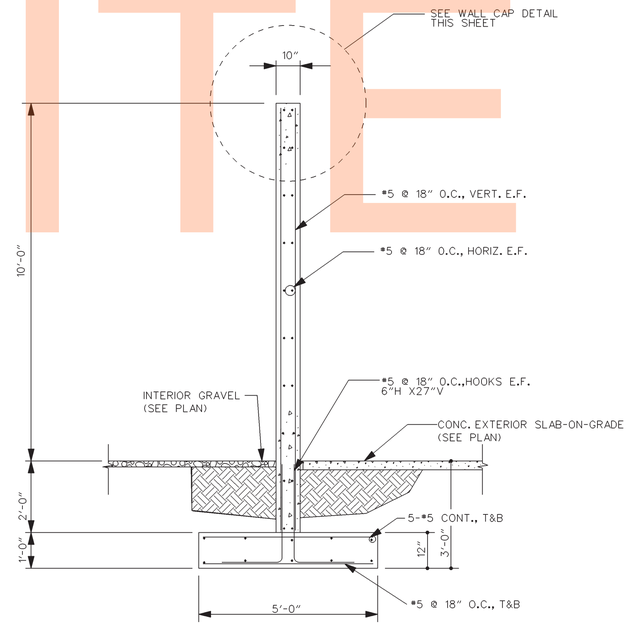


FUELING FACILITY ELEVATION

SCALE: 1/4"= 1'-0"

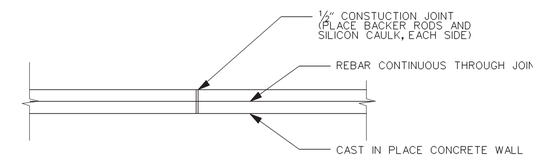
NOTES:

1. ALUMINUM COPING AND CLEATS TO BE PROVIDED AS INDICATED UNDER APPENDIX A, SECTION 076200 - SHEET METAL FLASHING AND TRIM.
2. HOLLOR METAL DOOR AND FRAME TO BE PROVIDED AS INDICATED UNDER APPENDIX A, SECTION 081113 - HOLLOW METAL DOORS AND FRAMES.
3. DOOR HARDWARE TO BE PROVIDED AS INDICATED UNDER APPENDIX A, SECTION 087100 - DOOR HARDWARE.



TYPICAL WALL SECTION A-A

SCALE: 1/2"= 1'-0"

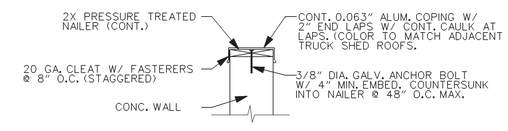


WALL CONSTRUCTION JOINT

SCALE: NONE

NOTES:

1. THE CONCRETE FOR THE WALL AND FOOTING OF THE FUELING FACILITY SHALL BE PAID FOR UNDER ITEM# 763694 - FUEL TANK SURROUND.
2. ALL REINFORCEMENT BARS SHALL PAID FOR UNDER ITEM# 763694 - FUEL TANK SURROUND.
3. ALL CONSTRUCTION JOINTS IN FUEL DEPOT WALL SHALL BE FILLED WITH BACKER RODS AND SILICONE CAULK ON EACH SIDE OF WALL. BACKER RODS AND CAULK SHALL BE PAID FOR UNDER ITEM# 763694 - FUEL TANK SURROUND.
4. WALL FOUNDATION SHALL BE CAST ON UNDISTURBED SOIL. UNSUITABLE SOIL SHALL BE OVEREXCAVATED AT THE DIRECTION OF THE ENGINEER, AND BACKFILLED WITH DELAWARE #57 STONE. COST FOR OVEREXCAVATION SUPPLY AND PLACEMENT OF#57 STONE SHALL BE PAID FOR UNDER ITEM# 763694 - FUEL TANK SURROUND.
5. EXCAVATION AND BACKFILL FOR THE FOOTING SHALL BE INCLUDED IN ITEM 763694 - FUEL TANK SURROUND.



WALL CAP DETAIL

SCALE: NONE

UNOFFICIAL WEBSITE COPY

PREL. TRACING ____ DESIGN ____ CHKD. ____

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09:29:18
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CONSTRUCTION DETAILS

C-21	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	22	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

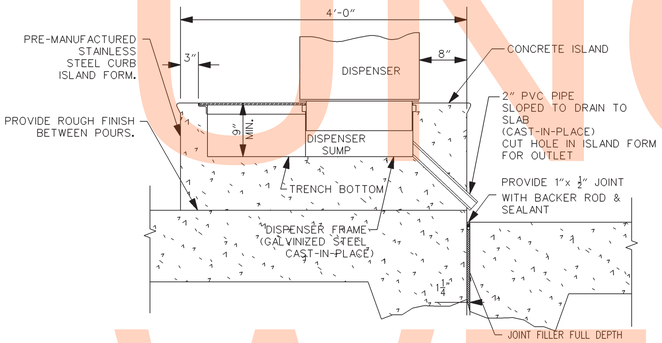
ADDENDUM 2 4/9/14

NOTES:

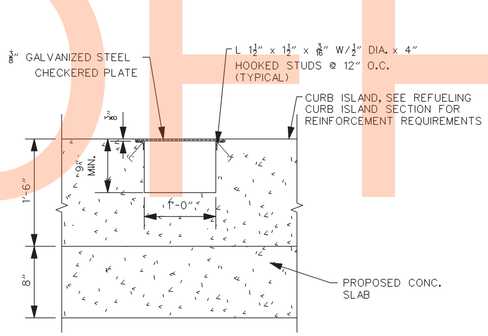
1. ALL BAR REINFORCEMENT SHALL BE PAID UNDER ITEM 603000.
2. ALL CONCRETE FOR THE SLAB-ON-GRADE, TANK FOUNDATION AND CURB ISLAND SHALL BE CLASS "A" CONCRETE AND PAID UNDER ITEM 602001.
3. THE FUEL DISPENSER AND ASSOCIATED ITEMS TO BE PAID UNDER ITEM 763592- ABOVE GROUND FUEL TANK, EXCEPT AS NOTED.
4. EXCAVATION AND BACKFILL FOR THE SLAB-ON-GRADE SHALL BE PAID UNDER ITEM 602001.

LEGEND

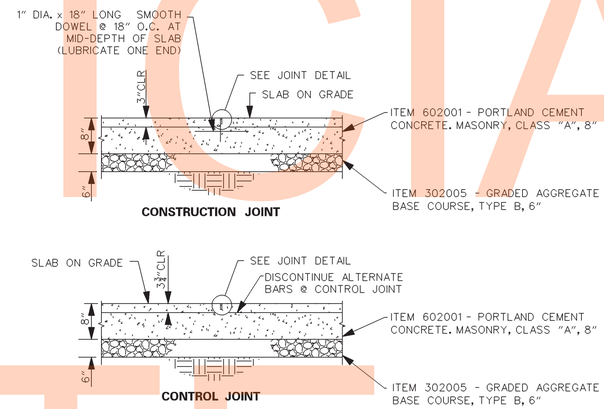
O.C.	ON CENTER
E.W.	EACH WAY
T.	TOP
B.	BOTTOM



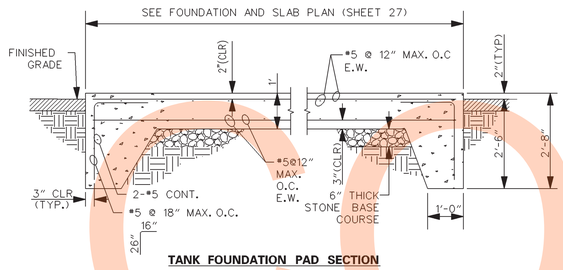
CURB ISLAND
SCALE: 1"=1'-0"



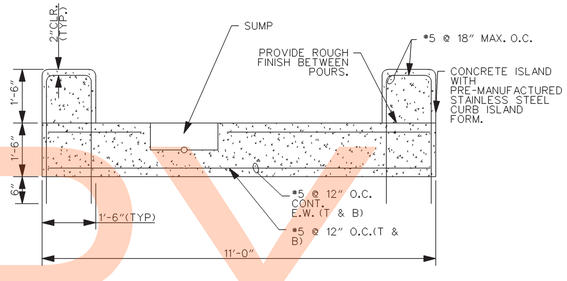
CURB ISLAND CAST-IN-PLACE SUMP
SCALE: 1"=1'-0"



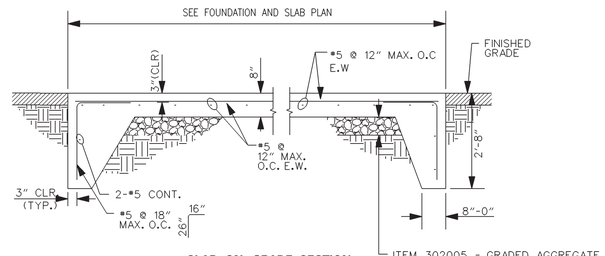
8" SLAB ON GRADE JOINTS
SCALE: 1/2"=1'-0"



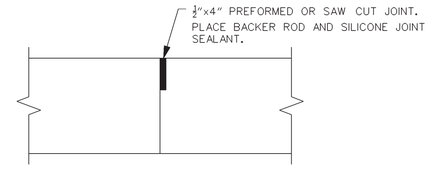
TANK FOUNDATION PAD SECTION
SCALE: 1/2"=1'-0"



REFUELING CURB ISLAND SECTION
SCALE: 1/2"=1'-0"



SLAB ON GRADE SECTION
SCALE: 1/2"=1'-0"



JOINT DETAIL
SCALE: NONE

UNOFFICIAL WEBSITE COPY

PREL. TRACING ____ DESIGN ____ CHKD. ____

8/13/2013
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09:20:34

CONSTRUCTION DETAILS

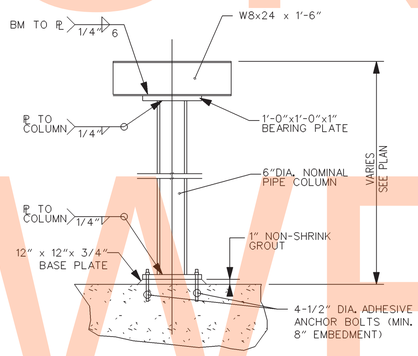
C-22	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	23	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

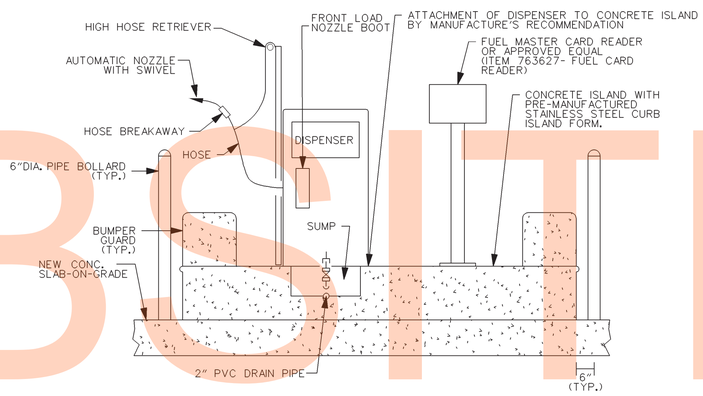
REVISIONS

ADDENDUM 2 4/9/14	

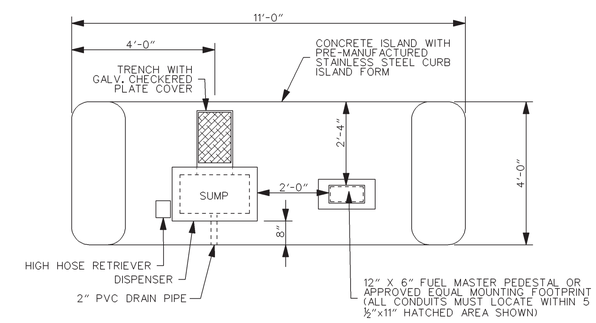
UNOFFICIAL WEBSITE COPY



PIPE SUPPORT DETAIL
SCALE: NONE



PUMP AND ISLAND SECTION
SCALE: ½"=1'-0"



PLAN VIEW
PUMP AND ISLAND
SCALE: ½"=1'-0"

PREL. TRACING DESIGN CHKD.

8/13/2013
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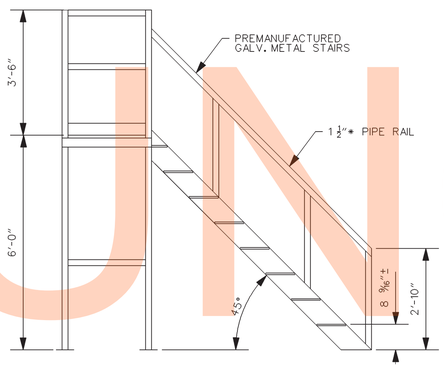
C-23	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	24	80

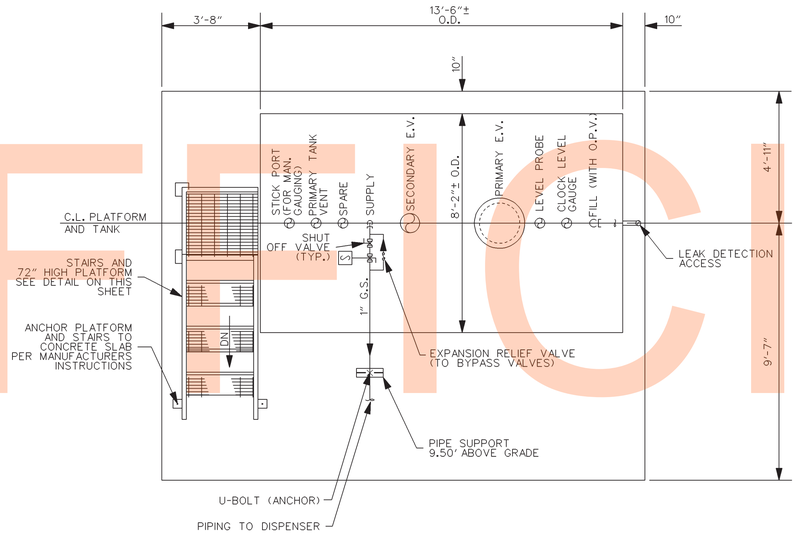
BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14	



STAIR PLAN VIEW
SCALE: 1/2"=1'-0"



NOTES:

1. CONTRACTOR TO REMOVE, REFURBISH, TRANSPORT AND INSTALL EXISTING 5000 GALLON DIESEL FUEL TANK, PLATFORM, STAIRS AND ALL APPURTENANCES FROM THE DELDOT SEAFORD MAINTENANCE YARD TO THE DELDOT BRIDGEVILLE MAINTENANCE YARD.

2. CAPACITY : 5000 GALLONS
   TYPE : 1360 DOUBLE WALL, ABOVEGROUND HORIZONTAL
   NO. REQ. : ONE
   MATERIAL : MILD CARBON STEEL
   TEST : 5 P.S.I.

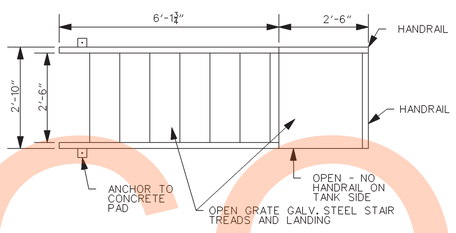
3. THE ABOVEGROUND STORAGE TANK (AST) IS TO CONTAIN DIESEL FUEL, CLASSIFICATION 2, PER NFPA 30A.

4. THE CONTRACTOR SHALL CERTIFY, IN WRITING, THAT ALL REQUIREMENTS AS LISTED IN SPECIAL PROVISION ITEM 763592-ABOVE GROUND FUEL TANK, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING HAVE BEEN COMPLIED WITH:

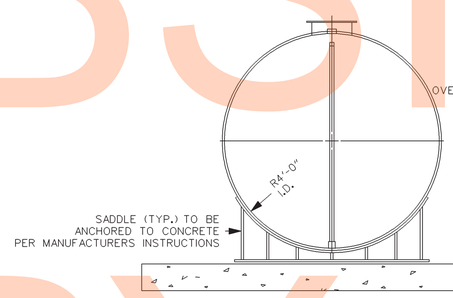
   A.
      I AST TANK
      II VALVES, FITTINGS, AND ACCESSORIES
      III CONCRETE SLAB
      IV ALL ELECTRICAL REQUIREMENTS
      V TANK APPURTENANCES
   B. INSTALLATION OF TANK, DISPENSER AND ALL OTHER ASSOCIATED ITEMS ARE IN COMPLIANCE WITH NFPA STANDARDS 30 AND 30A AND ALL OTHER LOCAL, STATE, AND FEDERAL CODES THAT MAY APPLY.
   C. AUDIBLE/VISUAL HI-LEVEL ALARM FOR OVERFILL CONDITIONS.
   D. FIRE EXTINGUISHER
   E. WARNING SIGNS CONSISTING OF:
      I UNAPPROVED CONTAINER DISPENSING SIGN
      II NO SMOKING
      III STOP MOTOR
      IV AND ANY AND ALL OTHER REQUIRED WARNING SIGNS.

5. IN CASE OF ANY DISCREPANCY BETWEEN THE PLANS AND DETAILS FOR THE FUEL DISPENSING SYSTEM AND ABOVE GROUND STORAGE TANK AND THE DELAWARE STATE FIRE PREVENTION REGULATIONS, THE STATE REGULATIONS SHALL PREVAIL.

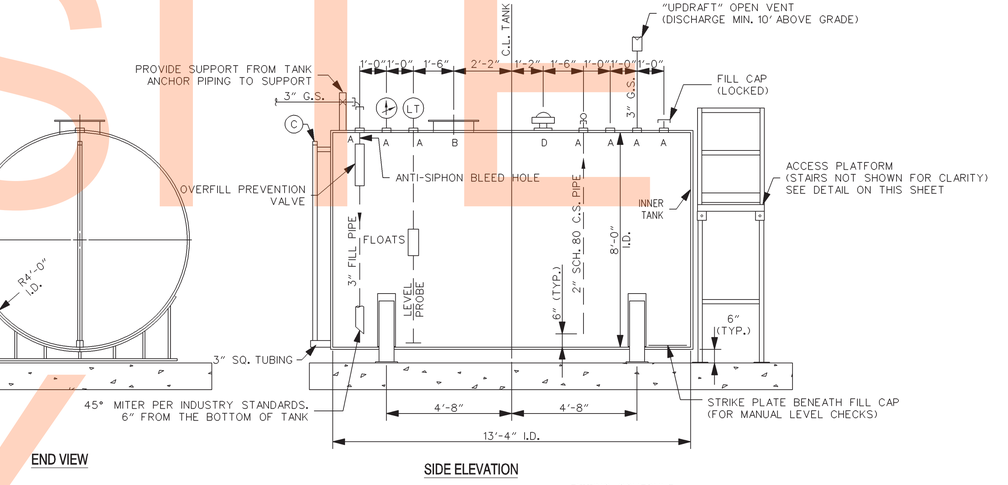
6. THE ABOVE GROUND STORAGE TANK, STAIRS, AND ALL ASSOCIATED ITEMS SHALL BE PAID UNDER ITEM 763592, ABOVE GROUND FUEL TANK, UNLESS NOTED OTHERWISE.



STAIR ELEVATION
SCALE: 1/2"=1'-0"



END VIEW



SIDE ELEVATION

FITTING SCHEDULE
A= 4" DIA. NPT
B= 18" DIA. LOOSE BOLT MANHOLE FOR PRIMARY EMERGENCY VENT
C= 2" DIA. NPT (FITTING FOR LEAK DETECTION)
D= 8" DIA. NPT FOR SECONDARY EMERGENCY VENT
(NOT TO PENETRATE INNER TANK)

TANK SIDE AND END VIEW ELEVATION DETAIL
SCALE: 3/8"=1'-0"

LEGEND:

G.S.	GALVANIZED STEEL
C.L.	CENTERLINE
O.D.	OUTSIDE DIAMETER
I.D.	INSIDE DIAMETER
E.V.	EMERGENCY VENT
O.P.V.	OVERFILL PREVENTION VALVE

FUEL TANK

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PREL. TRACING ____ DESIGN ____ CHKD. ____

8/13/2013
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09:20:51

C-24	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	25	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

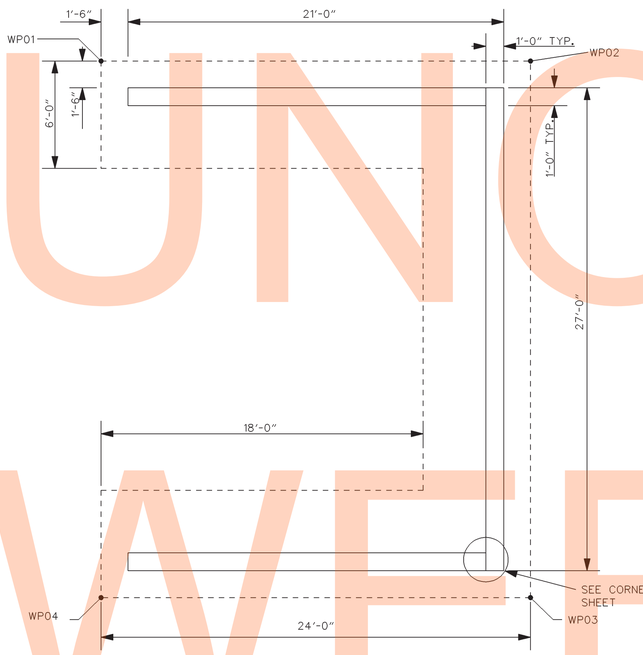
REVISIONS

ADDENDUM 2 4/9/14

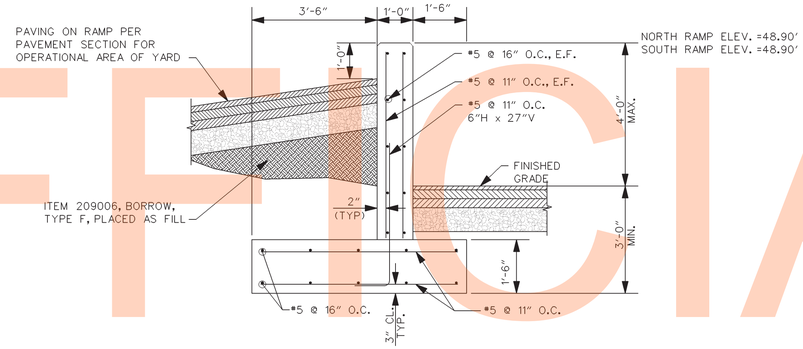
NOTES:

1. ALL EXPOSED CONCRETE EDGES SHALL HAVE ¾ INCH CHAMFERS.
2. ALL REBAR SHALL BE PAID FOR UNDER ITEM 603000.
3. FOOTING CONCRETE SHALL BE ITEM 602002, CLASS "B" CONCRETE, 3000 PSI. WALL CONCRETE SHALL BE ITEM 602001, CLASS "A" CONCRETE, 4500 PSI.
4. FOR ASPHALT RAMP PAVEMENT SECTION USE THE PAVEMENT SECTION FOR OPERATIONAL AREA OF THE YARD, SEE SITE DETAILS.
5. BAR REINFORCEMENT SHALL CONFORM TO AASHTO M31(ASTM A615)-GRADE 60 KSI. ALL BAR REINFORCEMENT IN BASE TO HAVE 3 INCHES MINIMUM COVER. ALL BAR REINFORCEMENT IN WALLS TO HAVE 2 INCHES MINIMUM COVER.
6. THE CONTRACTOR MAY SUBSTITUTE CONTINUOUS REBAR AT ALL LAP LOCATIONS SHOWN.
7. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS INCLUDING ALL DIMENSIONS AND REBAR SCHEDULES.
8. EXCAVATION AND BACKFILL FOR THE RAMP SHALL BE PAID FOR UNDER ITEM 602002.

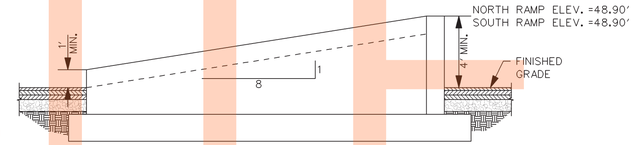
LOADING RAMPS TO BE CONSTRUCTED BY OTHERS



LOADING RAMP PLAN
SCALE: ¼"=1'-0"



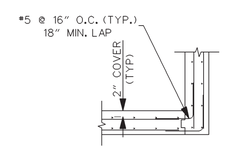
LOADING RAMP SECTION
SCALE: 1/2"=1'-0"



SIDE ELEVATION
SCALE: ¼"=1'-0"

WORKING POINT DATA - NORTH RAMP				
WORKING POINT	STATION	OFFSET	NORTHING	EASTING
WP01	125+17.68	86.00'	279599.6184	604059.0598
WP02	125+17.68	113.00'	279604.0661	604032.4287
WP03	124+87.68	113.00'	279633.6562	604037.3705
WP04	124+87.68 86.00'	86.00'	279629.2086	604064.0017

WORKING POINT DATA - SOUTH RAMP				
WORKING POINT	STATION	OFFSET	NORTHING	EASTING
WP01	126+33.68	54.00'	279479.9318	604071.5143
WP02	126+33.68	27.00'	279475.4841	604098.1454
WP03	126+63.68	27.00'	279445.8940	604093.2036
WP04	126+63.68	54.00'	279450.3416	604066.5724



CORNER DETAIL
SCALE: 1/2"=1'-0"

LOADING RAMP

UNOFFICIAL WEBSITE COPY

8/13/2013
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PREL. TRACING DESIGN CHKD.

C-25	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	26	80

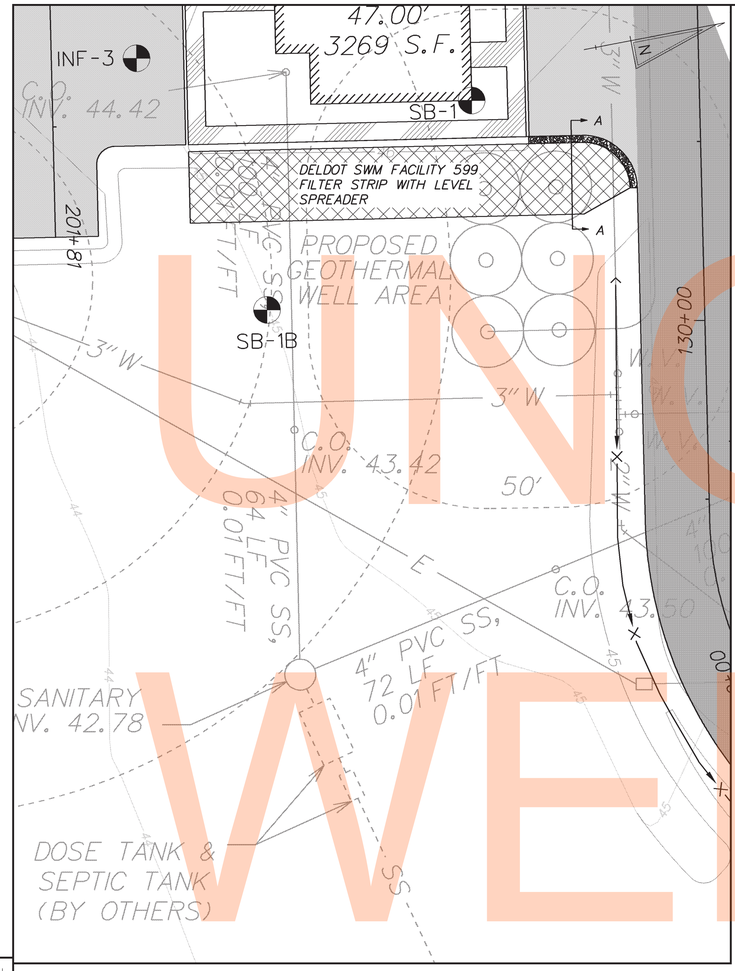
BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14

STORMWATER MANAGEMENT DETAILS
DELDOT SWM FACILITY #599

SCALE
0 20 40 60
FEET



PLAN – DELDOT SWM FACILITY #599
SCALE: 1" = 20'

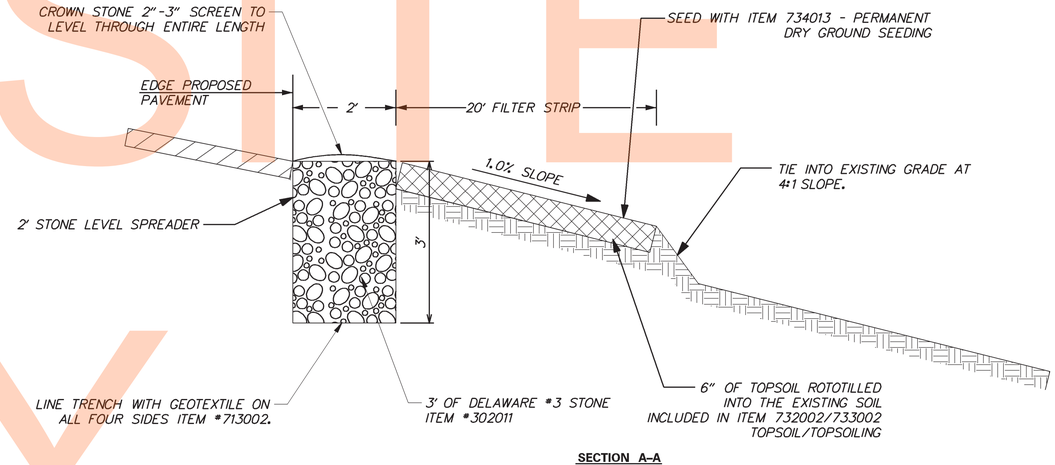
FILTER STRIP CONSTRUCTION SEQUENCE AND NOTES

THE FILTER STRIP SHALL BE CONSTRUCTED FOLLOWING CONSTRUCTION OF THE ADJACENT ROADWAY.

1. *CLEAR AND GRUB FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.*
2. *INSTALL PERIMETER SEDIMENT CONTROLS AS SHOWN IN EROSION AND SEDIMENT CONTROL PLANS.*
3. *CLEAR AND GRUB REMAINING AREA FOR FILTER STRIP CONSTRUCTION. EXCAVATE EXISTING MATERIAL (ITEM # 202000). PLACE 6" OF TOPSOIL AND ROTOTILL INTO EXISTING SOIL (ITEM #732002/733002).*
4. *INSTALL PERMANENT BMP MARKER AS STATED IN BMP MARKER GENERAL NOTES ON THE STORMWATER MANAGEMENT STANDARD DETAILS SHEET.*
5. *SEED THE FILTER STRIP, OVERSEEDING AREA, AND ALL OTHER DISTURBED AND BARE AREAS WITH DELDOT RECOMMENDED PERMANENT DRY SEEDING RATES (ITEM #734013).*
6. *REMOVE PERIMETER EROSION AND SEDIMENT CONTROLS WITH APPROVAL FROM THE ENGINEER AND CCR.*

BMP NO.	DRAINAGE AREA (AC)	IMPERVIOUS AREA (AC)
599	0.078	0.051

MANAGEMENT PROVIDED BY FACILITY: WATER QUALITY BY BIOFILTRATION OF 2.0" RAINFALL UP TO THE FIRST INCH OF RUNOFF.



SECTION A–A
NOT TO SCALE

UNOFFICIAL WEBSITE COPY

PREL. TRACING ____ DESIGN ____ CHKD. ____

11/22/2013
(3:16:52)
O:\PROJECTS\115005.OE (DelDOT A&E Open-End)\115005.01 (Task 1, Bridgeville Maintenance Yard)\CADD FILES\SW02_FilterStrip.dgn

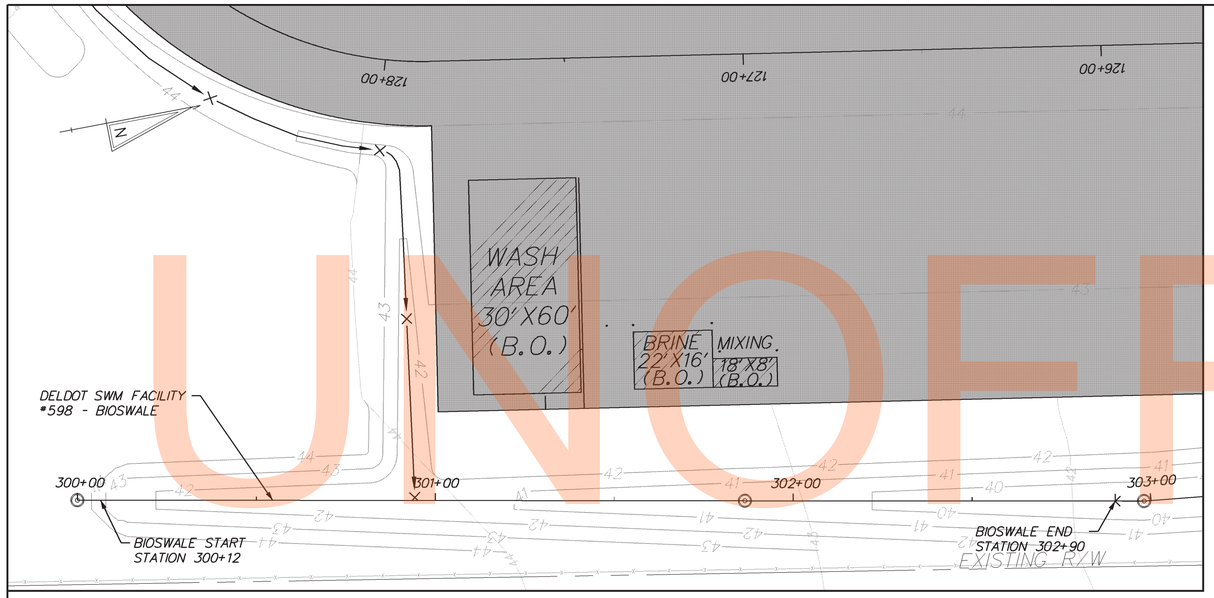
C-26	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	27	80

STORMWATER MANAGEMENT DETAILS
DELDOT SWM FACILITY #598

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14



PLAN – DELDOT SWM FACILITY # 598
SCALE : 1" = 20'

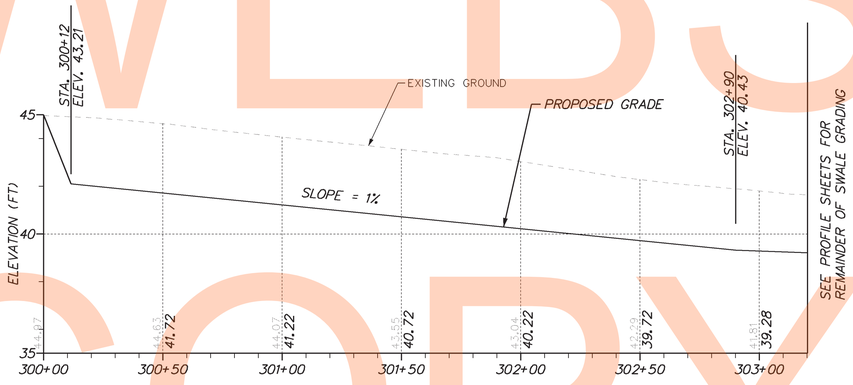
BIOSWALE SHOWN ON THIS SHEET TO BE CONSTRUCTED BY OTHERS

BIOSWALE CONSTRUCTION SEQUENCE AND NOTES

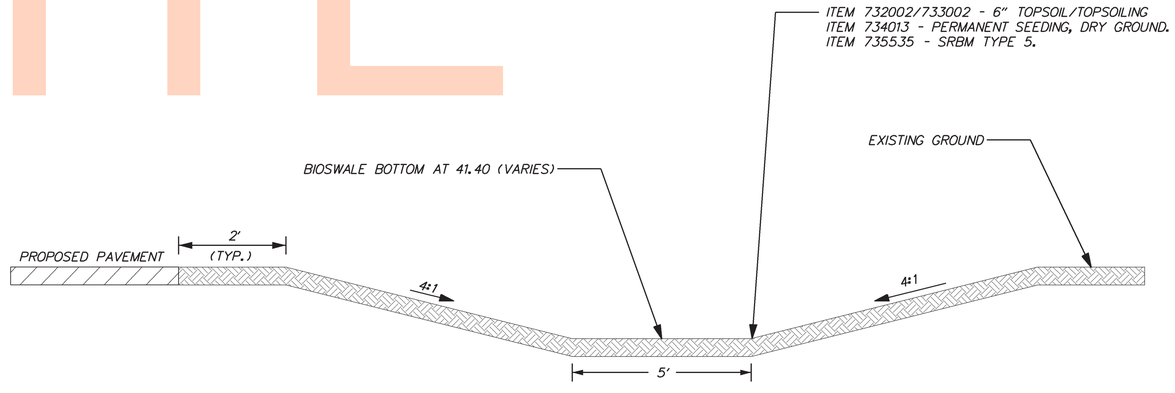
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON EROSION AND SEDIMENT CONTROL PLANS.
2. CLEAR AND GRUB FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
3. INSTALL PERIMETER SEDIMENT CONTROLS AS SHOWN IN EROSION AND SEDIMENT CONTROL PLANS.
4. CLEAR AND GRUB AREA FOR BIOSWALE CONSTRUCTION.
5. EXCAVATE THE BIOSWALE TO LINES, GRADES, AND DETAILS SHOWN IN THE CONSTRUCTION PLANS. INSTALL STONE CHECKDAMS AS SHOWN ON EROSION AND SEDIMENT CONTROL PLANS.
6. THE BIOSWALE SHALL BE STABILIZED WITH SOIL RETENTION BLANKET TYPE 5 MULCH FOLLOWING APPLICATION OF TOPSOIL AND PERMANENT DRY SEEDING.
7. COMPLETE STABILIZATION OF ALL BARE AND DISTURBED AREAS. REMOVE EROSION AND SEDIMENT CONTROL MEASURES WHEN AREAS HAVE BEEN STABILIZED TO SATISFACTION OF THE ENGINEER.

BMP NO.	DRAINAGE AREA (AC)	IMPERVIOUS AREA (AC)
598	1.42	0.79

DRAINAGE AREA TO FACILITY: 61,586 S.F.
MANAGEMENT PROVIDED BY FACILITY: WATER QUALITY BY BIOFILTRATION OF 2.0" RAINFALL UP TO THE FIRST INCH OF RUNOFF.



BIOSWALE PROFILE
HORIZONTAL SCALE : 1" = 10'
VERTICAL SCALE : 1" = 5'



TYPICAL SECTION
SCALE : NONE

NOTES:

1. SEE HORIZONTAL & VERTICAL CONTROL SHEETS FOR ALIGNMENT LAYOUT.
2. BIOSWALE LIMITS: START STATION: 300+12.00
   END STATION: 302+90.00

PREL. TRACING _____ DESIGN _____ CHKD. _____

11/26/2013
DGN:\PROJECTS\115005.OE (DelDOT A&E Open-End)\115005.01 (Task 1, Bridgeville Maintenance Yard)\CADD FILES\SW03_BioSwale.dgn
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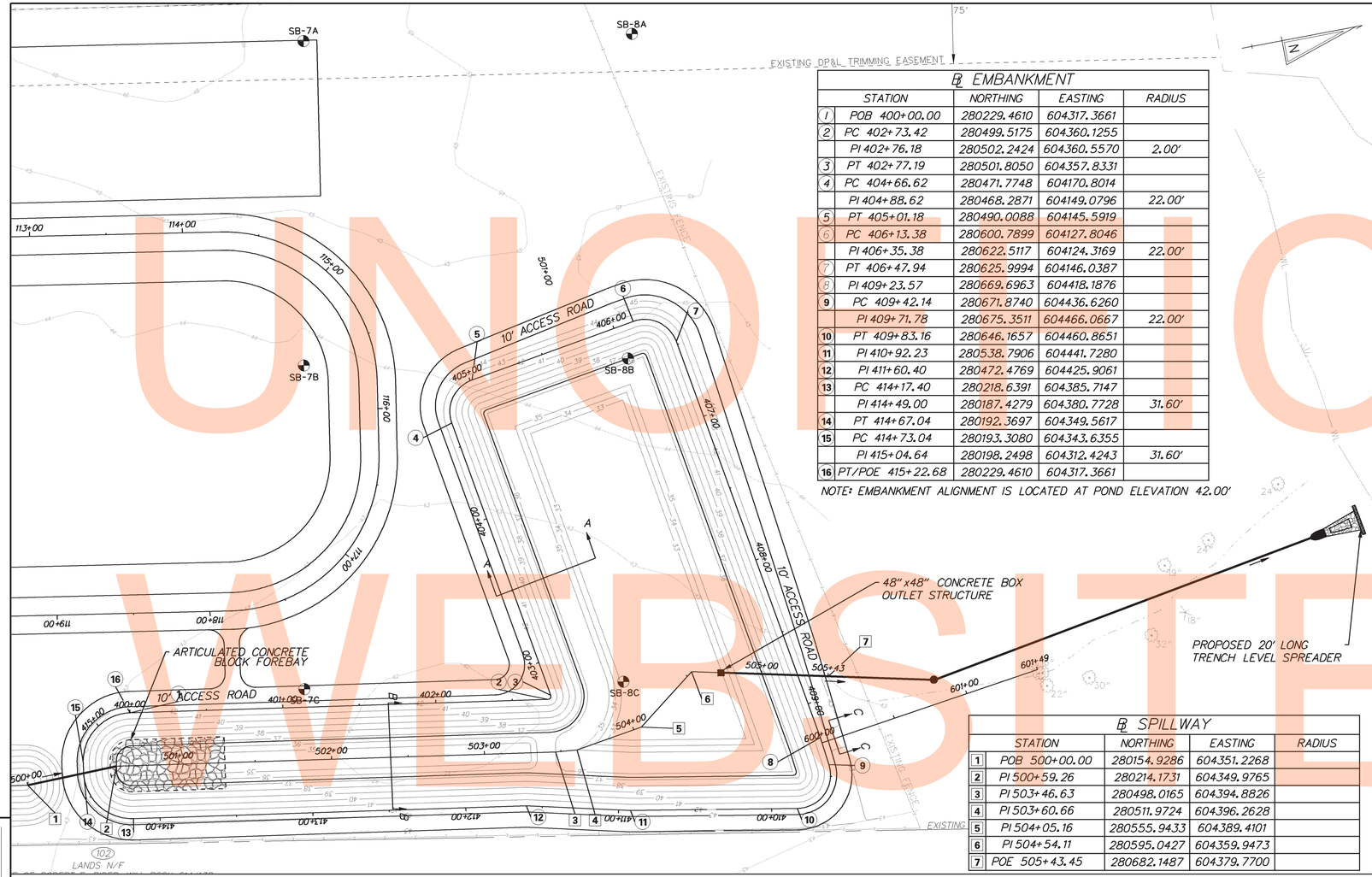
C-27	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	28	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14

STORMWATER MANAGEMENT DETAILS
DELDOT SWM FACILITY #600



PLAN – DELDOT SWM FACILITY #600

SCALE: 1" = 40'

℄ EMBANKMENT				
	STATION	NORTHING	EASTING	RADIUS
1	POB 400+00.00	280229.4610	604317.3661	
2	PC 402+73.42	280499.5175	604360.1255	
	PI 402+76.18	280502.2424	604360.5570	2.00'
3	PT 402+77.19	280501.8050	604357.8331	
4	PC 404+66.62	280471.7748	604170.8014	
	PI 404+88.62	280468.2871	604149.0796	22.00'
5	PT 405+01.18	280490.0088	604145.5919	
6	PC 406+13.38	280600.7899	604127.8046	
	PI 406+35.38	280622.5117	604124.3169	22.00'
7	PT 406+47.94	280625.9994	604146.0387	
8	PI 409+23.57	280669.6963	604418.1876	
9	PC 409+42.14	280671.8740	604436.6260	
	PI 409+71.78	280675.3511	604466.0667	22.00'
10	PT 409+83.16	280646.1657	604460.8651	
11	PI 410+92.23	280538.7906	604441.7280	
12	PI 411+60.40	280472.4769	604425.9061	
13	PC 414+17.40	280218.6391	604385.7147	
	PI 414+49.00	280187.4279	604380.7728	31.60'
14	PT 414+67.04	280192.3697	604349.5617	
15	PC 414+73.04	280193.3080	604343.6355	
	PI 415+04.64	280198.2498	604312.4243	31.60'
16	PT/POE 415+22.68	280229.4610	604317.3661	

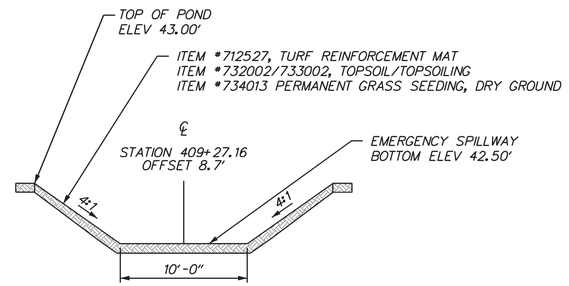
NOTE: EMBANKMENT ALIGNMENT IS LOCATED AT POND ELEVATION 42.00'

℄ SPILLWAY				
	STATION	NORTHING	EASTING	RADIUS
1	POB 500+00.00	280154.9286	604351.2268	
2	PI 500+59.26	280214.1731	604349.9765	
3	PI 503+46.63	280498.0165	604394.8826	
4	PI 503+60.66	280511.9724	604396.2628	
5	PI 504+05.16	280555.9433	604389.4101	
6	PI 504+54.11	280595.0427	604359.9473	
7	POE 505+43.45	280682.1487	604379.7700	

POND CONSTRUCTION SEQUENCE AND NOTES

SECTION 271 - STORMWATER MANAGEMENT POND

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON EROSION AND SEDIMENT CONTROL PLANS.
2. CLEAR AND GRUB FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
3. INSTALL PERIMETER SEDIMENT CONTROLS AS SHOWN ON EROSION AND SEDIMENT CONTROL PLANS.
4. CLEAR AND GRUB REMAINING AREA FOR POND CONSTRUCTION.
5. CONSTRUCT POND OUTLET AND PARTIAL EMBANKMENT AS NEEDED TO INSTALL POND OUTLET. INSTALL SKIMMER DEWATERING DEVICE. DE-WATER FOUNDATION AS NEEDED IN ACCORDANCE WITH SECTION 110.13 AND USE SUMP PIT FOR PUMPING. COST OF DEWATERING SHALL BE INCIDENTAL TO INSTALLATION OF OUTLET STRUCTURE.
6. EXCAVATE THE POND AND COMPLETE THE EMBANKMENT AND BASIN TO LINES, GRADES, AND DETAILS SHOWN IN THE CONSTRUCTION PLANS.
7. INSTALL MAINTENANCE ACCESS ROAD. COMPLETE STABILIZATION OF ALL BARE AREAS USING 6" TOPSOIL AND PERMANENT SEEDING. REMOVE EROSION AND SEDIMENT CONTROL MEASURES AND DEACTIVATE SKIMMER DEWATERING DEVICE.
8. AT COMPLETION OF MAINTENANCE YARD CONSTRUCTION CONTRACTOR SHALL ENSURE WET POND MATCHES DESIGN GRADE. ANY SEDIMENT ACCUMULATION SHALL BE REMOVED AND ALL DISTURBED AREAS TOPSOIL, SEEDED, AND MULCED PER THE STORMWATER MANAGEMENT PLANS.



EMERGENCY SPILLWAY
SECTION C – C

SCALE: NONE

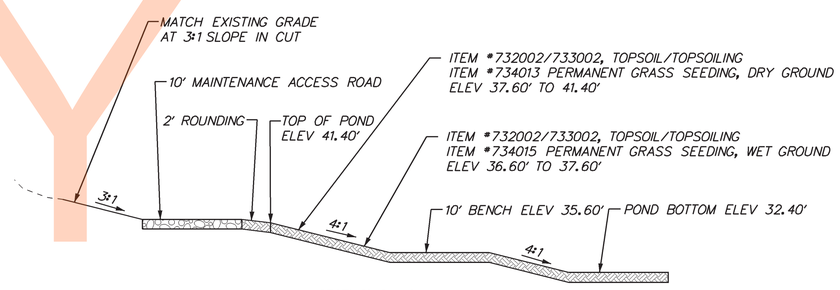
WET POND, OUTLET STRUCTURE, AND OUTFALL PIPES TO BE CONSTRUCTED BY OTHERS.

POND DESIGN SUMMARY FOR BMP #600				
DESIGN STORM	FACILITY INFLOW	FACILITY DISCHARGE	WATER SURFACE ELEVATION	STORAGE VOLUME (AC.FT)
QUALITY STORM (2.0")	13.08	0.92	37.80	1.180
2 - YEAR	29.26	1.46	39.24	2.856
10 - YEAR	51.91	12.62	40.28	4.234
100 - YEAR	98.09	48.57	41.23	5.618

HAZARD CLASSIFICATION: CLASS A AS PER POND CODE 378

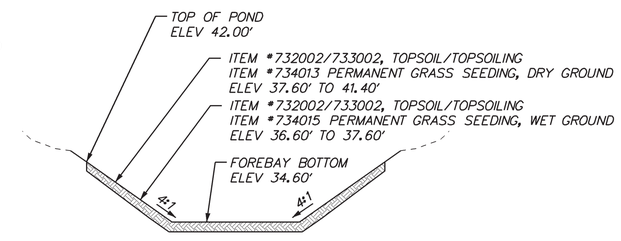
DRAINAGE AREA TO FACILITY: 22.27 ACRES

MANAGEMENT PROVIDED BY FACILITY: WATER QUALITY BY EXTENDED DETENTION OF 2" RAINFALL UP TO THE FIRST INCH OF RUNOFF



SECTION A – A

SCALE: NONE



SECTION B – B

SCALE: NONE

PREL. TRACING ____ DESIGN ____ CHKD. ____

01/22/2015
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13:18:50

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WET POND TO BE CONSTRUCTED BY OTHERS

STORMWATER MANAGEMENT DETAILS
DELDOT SWM FACILITY #600

SCALE
0 40 80 120
FEET

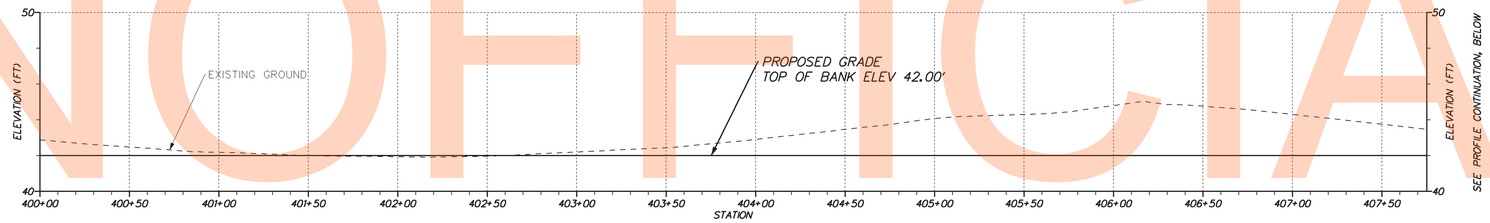
VERTICAL SCALE FEET 10 5 0

C-28	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	29	80

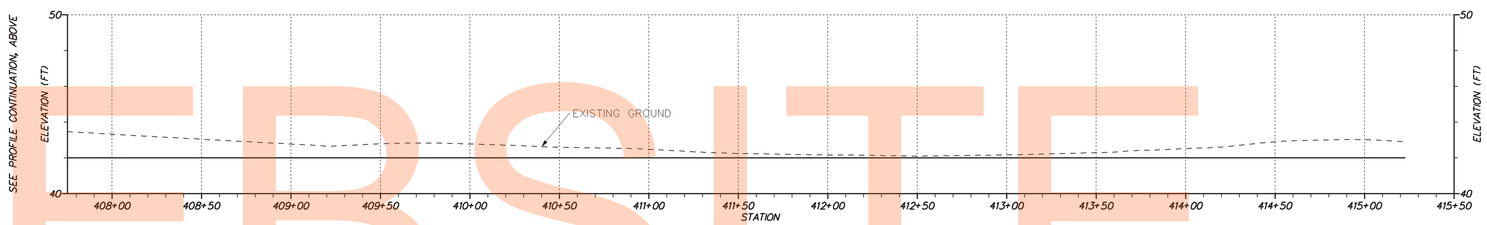
BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS
ADDENDUM 2 4/9/14

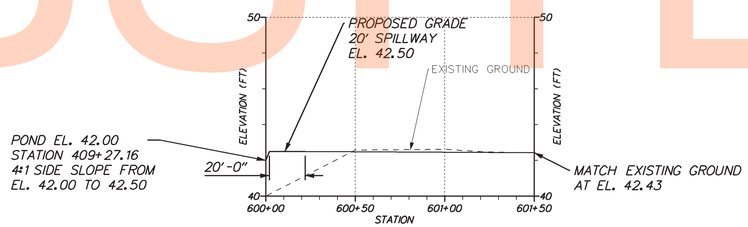
UNOFFICIAL WEBSITE COPY



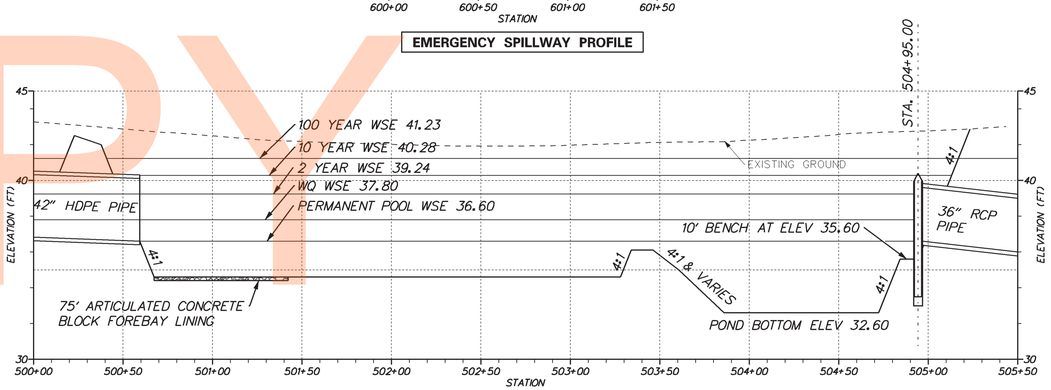
EMBANKMENT PROFILE



EMBANKMENT PROFILE



EMERGENCY SPILLWAY PROFILE



WET POND PROFILE

PREL. TRACING ____ DESIGN ____ CHKD. ____

11/26/2013
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09137444

C-29	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	30	80

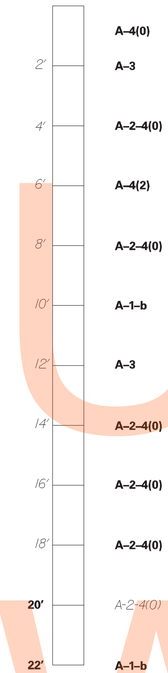
STORMWATER MANAGEMENT DETAILS

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

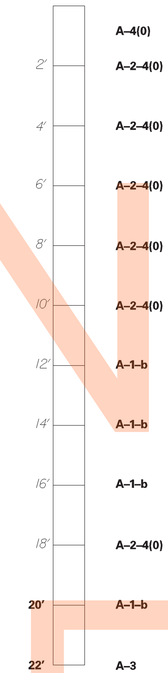
ADDENDUM 2 4/9/14

SB-8B
STA. 115+77.92
164.52' RIGHT
GROUND ELEV. 44.55'



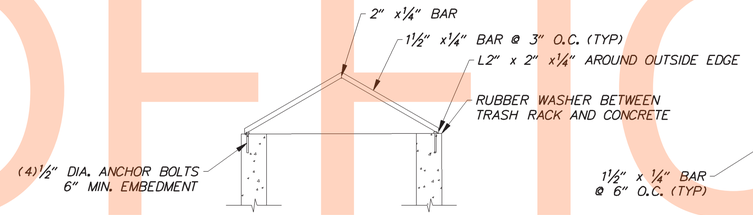
WATER NOT FOUND

SB-8C
STA. 116+83.69
198.13' RIGHT
GROUND ELEV. 43.40'



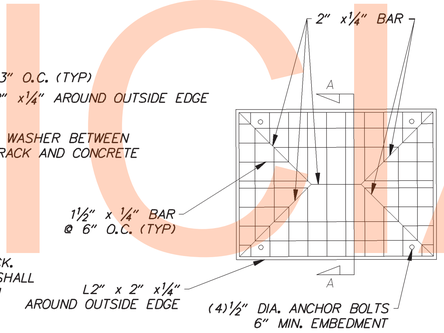
WATER NOT FOUND

OUTLET STRUCTURE TO BE CONSTRUCTED BY OTHERS

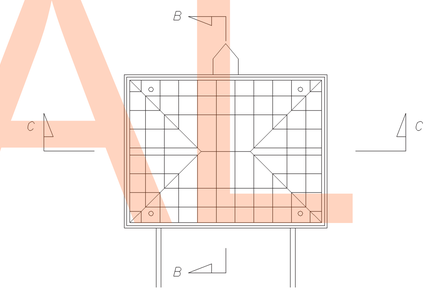


NOTE: ALUMINUM OR STEEL SHALL BE USED FOR TRASH RACK. STEEL SHALL BE ASTM A-36 (AASHTO M183). TRASH RACK SHALL BE GALVANIZED IF STEEL IN ACCORDANCE WITH AASHTO M 111 AFTER FABRICATION. ASTM A-36 (AASHTO M183)

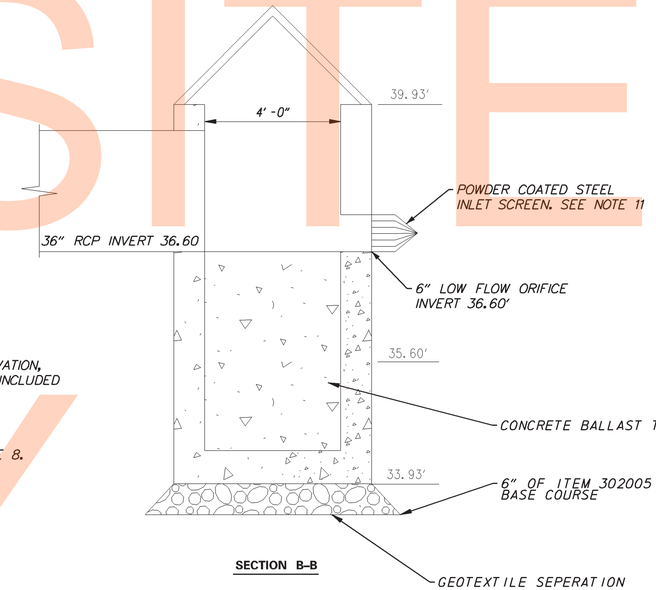
SECTION A-A



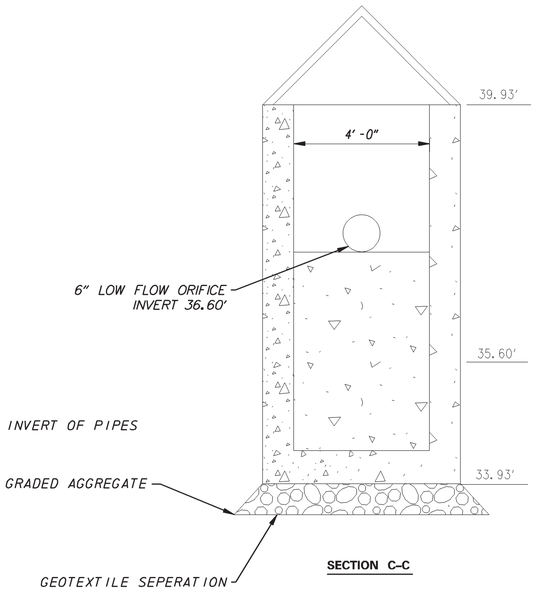
OVERFLOW TRASH RACK



TOP VIEW



SECTION B-B



SECTION C-C

NOTES:

1. FURNISHING, CONSTRUCTING AND PLACING ALL ITEMS ASSOCIATED WITH THE OUTLET STRUCTURE, INCLUDING BUT NOT LIMITED TO, EXCAVATION, TRASH RACKS, CONCRETE, REINFORCING STEEL, STONE BEDDING, GEOTEXTILE, BALLAST, FASTNERS AND BACKFILL MATERIAL SHALL BE INCLUDED IN ITEM #272000 - POND OUTLET STRUCTURE, CONCRETE.
2. ALL CONCRETE FOR OUTLET STRUCTURE SHALL BE PORTLAND CEMENT CONCRETE CLASS A.
3. REINFORCING STEEL SHALL BE EPOXY COATED AND SHALL CONFORM TO AASHTO M31-94, GRADE 60. ALL FASTENERS SHALL BE GRADE 8.
4. GEOTEXTILE SHALL CONFORM TO ITEM 713002 - GEOTEXTILES, SEPARATION.
5. CONCRETE BALLAST SHALL HAVE A MINIMUM WEIGHT OF 150 LBS/CU.FT. AND SHALL CONFORM TO CLASS B CONCRETE.
6. STRUCTURE SHALL BE CONSTRUCTED FROM PRECAST DELDOT STANDARD 48" X 48" INLET BOX.
7. REINFORCED CONCRETE PIPE SHALL BE PAID FOR SEPERATELY.
8. NO. 57 STONE, GEOTEXTILE, PIPE CRADLE, ANTI-SEEP COLLAR, AND EXCAVATION AND EMBANKMENT SHALL BE INCIDENTAL TO ITEM #272000.
9. INLET SCREENS SHALL BE AGRIDRAIN BAR GUARDS, OR APPROVED EQUAL, AND SHALL BE INCIDENTAL TO ITEM #272000. CONTRACTOR SHALL SUBMIT INLET SCREEN INFORMATION FOR APPROVAL.

DELDOT SWM FACILITY #600 OUTLET STRUCTURE

UNOFFICIAL WEBSITE COPY

11/22/2013
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13-20143
PREL. TRACING DESIGN CHKD.

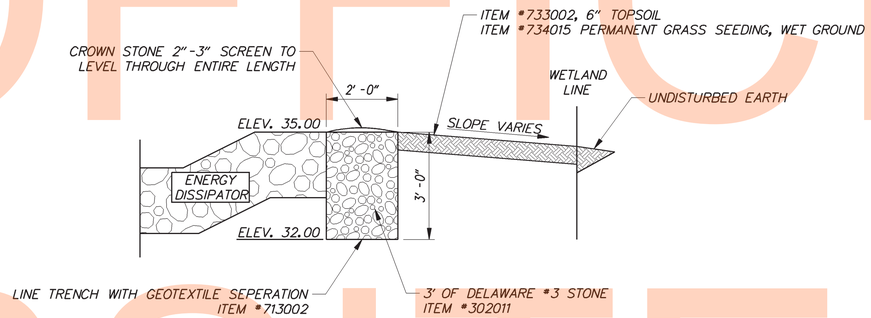
STORMWATER MANAGEMENT
STANDARD DETAILS

C-30	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	31	80

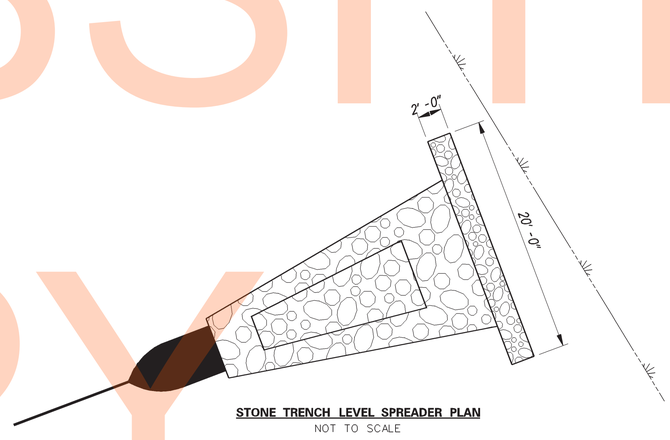
BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS	
ADDENDUM 2 4/9/14	

LEVEL SPREADER TO BE CONSTRUCTED BY OTHERS



STONE TRENCH LEVEL SPREADER SECTION
NOT TO SCALE



STONE TRENCH LEVEL SPREADER PLAN
NOT TO SCALE

UNOFFICIAL WEBSITE COPY

PREL. TRACING _____ DESIGN _____ CHKD. _____

8/13/2013
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09:22:12

C-31	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	32	80

STORMWATER MANAGEMENT STANDARD DETAILS

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

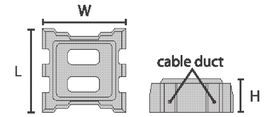
ADDENDUM 2 4/9/14

ARTICULATED CONCRETE BLOCK FOREBAY TO BE CONSTRUCTED BY OTHERS.

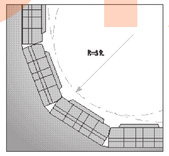
OPEN CELL							
BLOCK CLASS	DIMENSIONS IN.			BLOCK		UNIT COVERAGE Sq. Ft.	OPEN AREA
	H	W	L	Unit Weight Lbs.	System Weight Lbs./Sq. Ft.		
SD-400 OC	4.00	15.50	17.40	50-57	28-32	1.78	20%
SD-475 OC	4.75	15.50	17.40	62-71	35-40	1.78	20%
SD-600 OC	6.00	15.50	17.40	81-94	46-53	1.78	20%
SD-800 OC	8.00	15.50	17.40	108-118	61-67	1.78	20%
SD-900 OC	9.00	15.50	17.40	120-138	68-78	1.78	20%

CLOSED CELL							
BLOCK CLASS	DIMENSIONS IN.			BLOCK		UNIT COVERAGE Sq. Ft.	OPEN AREA
	H	W	L	Unit Weight Lbs.	System Weight Lbs./Sq. Ft.		
SD-400 CC	4.00	15.50	17.40	66-73	37-41	1.78	10%
SD-475 CC	4.75	15.50	17.40	78-89	43-50	1.78	10%
SD-600 CC	6.00	15.50	17.40	94-108	53-61	1.78	10%
SD-800 OC	8.00	15.50	17.40	125-135	71-76	1.78	10%
SD-900 CC	9.00	15.50	17.40	145-167	82-98	1.78	10%

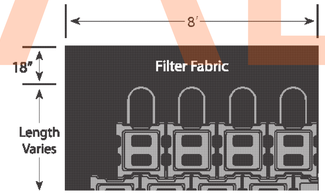
*The SD Series denotes Single Directional Cable System. Note: Additional block styles may be available in some areas. Check with your local SHORETEC® representative for product availability.



SHOREBLOCK® SD units are manufactured in accordance with ASTM C90, C140 and D6684-04.



Each block is interconnected by flexible cables, providing articulation between adjacent blocks.



Woven monofiliments are preferred over nonwoven geotextiles. The soil's particle size (among other factors) will ultimately determine the fabric selection.

ARTICULATED PRE-CAST CONCRETE BLOCK DETAILS
NOT TO SCALE

ARTICULATED CONCRETE BLOCK FOREBAY NOTES:

1. *FURNISHING, CONSTRUCTING AND PLACING ARTICULATED CONCRETE BLOCK, INCLUDING BUT NOT LIMITED TO, EXCAVATION, CONCRETE, REINFORCING STEEL, FASTNERS, AND BACKFILL MATERIAL SHALL BE INCLUDED IN ITEM *712517 - ARTICULATED PRE-CAST CONCRETE BLOCKS.*
2. *ARTICULATED PRE-CAST CONCRETE BLOCK SHALL BE MANUFACTURED BY SHOREBLOCK AND BE THE CLOSED CELL OPTION BLOCK CLASS SD-600 CC OR APPROVED EQUAL.*
3. *CONCRETE BLOCKS SHALL BE CONSTRUCTED, INSTALLED AND ANCHORED PER MANUFACTURERS DETAILS AND SPECIFICATIONS.*
4. *CONCRETE BLOCKS SHALL BE LOCATED IN BOTH SEDIMENT FOREBAYS FROM ELEVATION 35.60' TO ELEVATION 33.40'.*

BMP MARKER GENERAL NOTES:

1. *FOR BMPS THAT DO NOT HAVE A CONCRETE OUTLET STRUCTURE CONTRACTOR SHALL INSTALL A 6"x12" CONCRETE MARKER ALONG THE PERIMETER OF THE FACILITY. THE MARKER SHALL BE PLACED AT THE TOP OF BANK AND FLUSH WITH THE GROUND AT A LOCATION THAT IS CLEARLY VISIBLE FROM THE ROADWAY. THE APPROVED DELDOT BMP NUMBER SHALL BE STENCILED ONTO THE CONCRETE MARKER WITH 4" TALL LETTERING AND PERMANENT BLACK PAINT. COST SHALL BE INCIDENTAL TO ITEM NO. 271000.*
2. *FOR BMPS THAT HAVE A CONCRETE OUTLET STRUCTURE CONTRACTOR SHALL STENCIL THE APPROVED DELDOT BMP NUMBER ON THE OUTLET STRUCTURE. WEIR STRUCTURES SHALL HAVE THE BMP NUMBER STENCILED ON THE TOP AND DOWNSTREAM FACE. ALL OTHER STRUCTURES SHALL HAVE THE BMP NUMBER STENCILED ON TWO SIDES THAT ARE CLEARLY VISIBLE FROM THE ROADWAY. THE APPROVED DELDOT BMP NUMBER SHALL BE STENCILED WITH 4" TALL LETTERING AND PERMANENT BLACK PAINT. COST SHALL BE INCIDENTAL TO ITEM NO. 271000.*

CHOKED RIPRAP GENERAL NOTES:

1. *CHOKED RIPRAP SHALL BE USED TO LINE OVERFLOW SPILLWAYS FROM INFILTRATION FACILITIES AS NOTED ON THE STORMWATER DETAIL SHEETS.*
2. *R4 RIPRAP SHALL BE PLACED TO A DEPTH OF 9". GEOTEXTILE SHALL BE PLACED UNDERNEATH THE RIPRAP. THE RIPRAP SHALL CONFORM TO THE LINES AND GRADES SHOWN ON THE STORMWATER DETAIL SHEETS AND BE FREE OF PROTRUSIONS.*
3. *TOPSOIL SHALL BE USED TO FILL THE VOIDS IN THE RIPRAP. THE TOPSOIL SHALL BE SMOOTHED TO MEET THE LINES AND GRADES SHOWN ON THE STORMWATER DETAIL SHEETS. THE TOPSOIL SHALL COVER THE RIPRAP ENTIRELY. PERMANENT SEEDING SHALL BE PLACED ON THE TOPSOIL AND COVERED WITH SRBM TYPE 4.*

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EROSION AND SEDIMENT CONTROL NOTES

C-32	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	33	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14

E & S NOTES

1. DUST CONTROL
   DUST IS TO BE CONTROLLED EXCLUSIVELY THROUGH THE USE OF WATER. COSTS ASSOCIATED WITH THE FURNISHING AND APPLICATION OF WATER FOR DUST CONTROL SHALL BE INCIDENTAL TO THE PROJECT.

2. CHECKDAM REMOVAL
   ALL CHECKDAMS ARE TO BE REMOVED AT THE COMPLETION OF THE JOB OR AS DIRECTED BY THE ENGINEER IN THE FIELD. THIS WORK SHALL BE PAID UNDER STONE CHECK DAM, ITEM #254000.

3. REVIEW AND OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE THE REQUIREMENTS OF THE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM THE ERRORS OR OMISSIONS IN THE APPROVED PLAN.

4. SOIL DISTURBANCE
   FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR OF ALL EROSION AND SEDIMENT CONTROLS AND STORMWATER MANAGEMENT PRACTICES DURING THE PROJECT.

6. EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS OR AS DIRECTED BY ENGINEER IN THE FIELD.

7. STAGING AREAS
   PROPER STABILIZATION MEASURES AS DETERMINED BY THE ENGINEER SHALL BE INSTALLED IN ALL STAGING AREAS AT COMPLETION OF THE PROJECT. STAGING AREAS THAT ARE PAVED SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF UNPAVED, STAGING AREAS SHALL BE REGRADED TO THE SATISFACTION OF THE ENGINEER, TOPSOILED SEEDED, AND MULCHED IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATIONS SECTIONS 732 AND 734 FOR TOPSOIL AND SEED RESPECTIVELY. SEED SHALL ADHERE TO THE SPECIFICATIONS FOR PERMANENT GRASS SEEDING - DRY GROUND. ALL COSTS ASSOCIATED TO THE ABOVE ITEMS SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH RE-ESTABLISHING A SATISFACTORY STAND OF GRASS SHALL ALSO BE AT THE CONTRACTOR'S EXPENSE.

8. WITHIN THE LIMITS OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL VEGETATION WITHIN THE DELDOT RIGHT OF WAY TO A MAXIMUM OF 6" HEIGHT.

9. CONSTRUCTION ENTRANCES
   IT IS INTENDED THAT SEDIMENT TRACKING BE ELIMINATED ON STATE MAINTAINED ROADWAYS ADJOINING THE PROJECT. EACH POINT OF INGRESS AND EGRESS FROM THE PROJECT SHALL HAVE INSTALLED STABILIZED CONSTRUCTION ENTRANCES (SCE), ITEM 268000. ALL PAVED SURFACES ADJOINING THE PROJECT LIMITS SHALL BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH WORKDAY. STABLIZED CONSTRUCTION ENTRANCES SHALL BE TOP DRESSED WITH TWO (2) INCHES OF CLEAN DE NO. 3 STONE WHEN THE VOIDS BECOME CLOGGED OR AS DIRECTED BY THE ENGINEER. ADDITIONAL STONES REQUIRED TO MAINTAIN THE ENTRANCES SHALL BE PAID UNDER ITEM 268000.

10. SOIL STOCKPILES
    STOCKPILES OF SOIL SHALL BE STABILIZED WITH TEMPORARY GRASS SEEDING, DRY GROUND. ALL COSTS INCIDENTAL TO CONTRACT.

11. REMOVAL OF ALL PIPES AND RIPRAP AT THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE INCIDENTAL TO THEIR RESPECTIVE ITEMS.

12. STABILIZED CONSTRUCTION ENTRANCES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER AND CCR.

SEQUENCE OF CONSTRUCTION

THE FOLLOWING SEQUENCE OF CONSTRUCTION WAS DEVELOPED UNDER THE ASSUMPTIONS LISTED BELOW. IF ANY OF THESE CONDITIONS DIFFER FROM CONDITIONS IN THE FIELD THE SEQUENCE OF CONSTRUCTION MAY NEED TO BE REVISED.

1. THE ACCESS DRIVE IS CONSTRUCTED.
2. THE SEPTIC FIELD, WELL, TRUCK SHEDS, MOWER SHED, SALT BARN, AND SHOP BUILDING HAVE NOT BEEN CONSTRUCTED.

CONSTRUCTION SEQUENCE

STAGE 1

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AT ENTRANCE TO SITE AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS. INSTALL CONSTRUCTION SAFETY FENCE AROUND ALL SENSITIVE AREAS (WETLANDS, WELL, GEOTHERMAL WELLS, SEPTIC DRAINFIELD) AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS.

STAGE 2

1. ROUGH GRADE SITE AFTER REMOVING ALL TOPSOIL AND STOCKPILING IN NORTHWEST STOCKPILE AREA.

2. INSTALL DRAINAGE INLETS AND PIPES.INSTALL INLET PROTECTION ON ALL INLETS.

3. INSTALL UTILITIES, CONDUITS, AND WELL. DO NOT INSTALL ANY PORTION OF SEPTIC SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITY INSTALLATIONS WITH THE RESPECTIVE UTILITY COMPANIES AND SPECIALTY CONTRACTORS. COST FOR THIS COORDINATION SHALL BE INCIDENTAL TO THE CONTRACT. DO NOT CONSTRUCT GEOTHERMAL WELL FIELD.

STAGE 3

1. COORDINATE WITH BUILDING CONTRACTORS OR AS DIRECTED BY THE ENGINEER FOR SHOP BUILDING, TRUCK SHEDS, MOWER SHED, AND SALT BARN TO CONSTRUCT ALL BUILDINGS EXCEPT CREW OPS BUILDING.

2. CONSTRUCT FUEL DEPOT AND ASSOCIATED CONCRETE ISLAND AND FUELING SLAB.

3. CONSTRUCT UTILITY SLAB.

4. CONSTRUCT CREW OPS BUILDING. DO NOT CONSTRUCT SIDEWALK SURROUNDING BUILDING.

5. CONSTRUCT BOLLARDS AS SHOWN IN CONSTRUCTION PLANS.

STAGE 4

1. INSTALL CURB SURROUNDING CREW OPS BUILDING AND PERFORM FINAL GRADING OF THE AREA. TOPSOIL AND SEED AREA SURROUNDING CREW OPS BUILDING. PERFORM SITE PAVING, STARTING WITH OPERATING AREA OF SITE AND FINISHING WITH CREW OPS PARKING.

2. STRIPE PARKING AREAS AND TRAVEL LANES THROUGHOUT OPERABLE AREA OF THE SITE.

3. CONSTRUCT GEOTHERMAL WELL FIELD. COMPLETE CONSTRUCTION OF SEPTIC LATERAL FROM CREW OPS BUILDING TO JUNCTION MANHOLE. INSTALL JUNCTION MANHOLE.

4. CONSTRUCT SIDEWALK SURROUNDING CREW OPS BUILDING.

SEQUENCE OF CONSTRUCTION (CONT.)

STAGE 5

1. PERFORM FINE GRADING AND FINAL STABILIZATION OF SITE, PLACING 6" TOPSOIL, SEED, AND MULCH ON ALL EXPOSED AREAS.

2. AT THE DIRECTION OF THE CCR AND THE ENGINEER, REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES.

3. ENSURE BIOSWALE MATCHES DESIGN GRADES.REMOVE SEDIMENT AND CHECK DAMS FROM BIOSWALE STABILIZE WITH TOPSOIL, SEED, AND MULCH PER PLAN.

4. ENSURE WET POND MATCHES DESIGN GRADES. REMOVE ANY SEDIMENT AND TOPSOIL, SEED, AND MULCH PER PLAN.

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C-33	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	34	80

EROSION AND SEDIMENT CONTROL PLANS

SCALE
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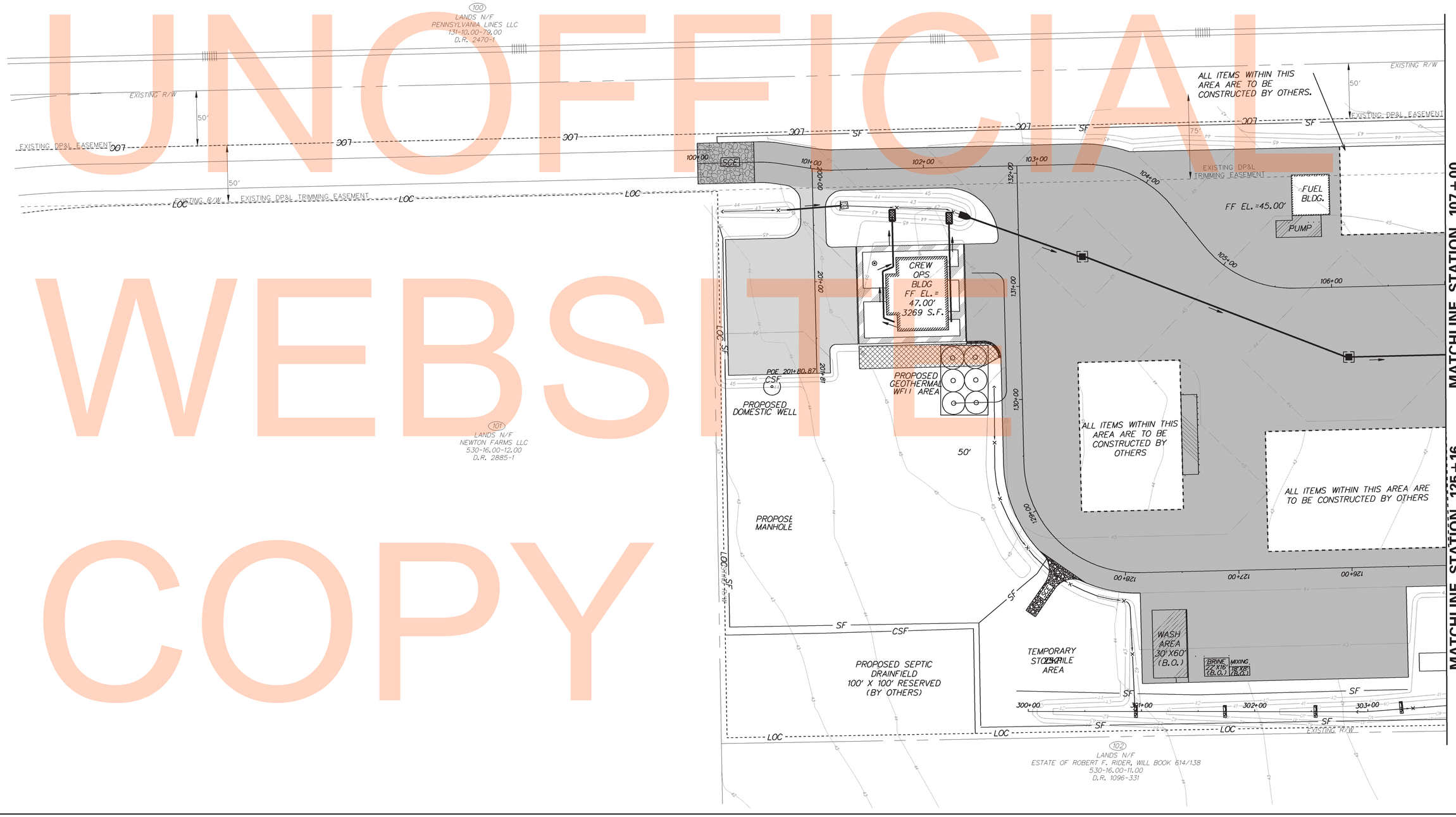
BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14



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C-34	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	35	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14

EROSION AND SEDIMENT CONTROL PLANS

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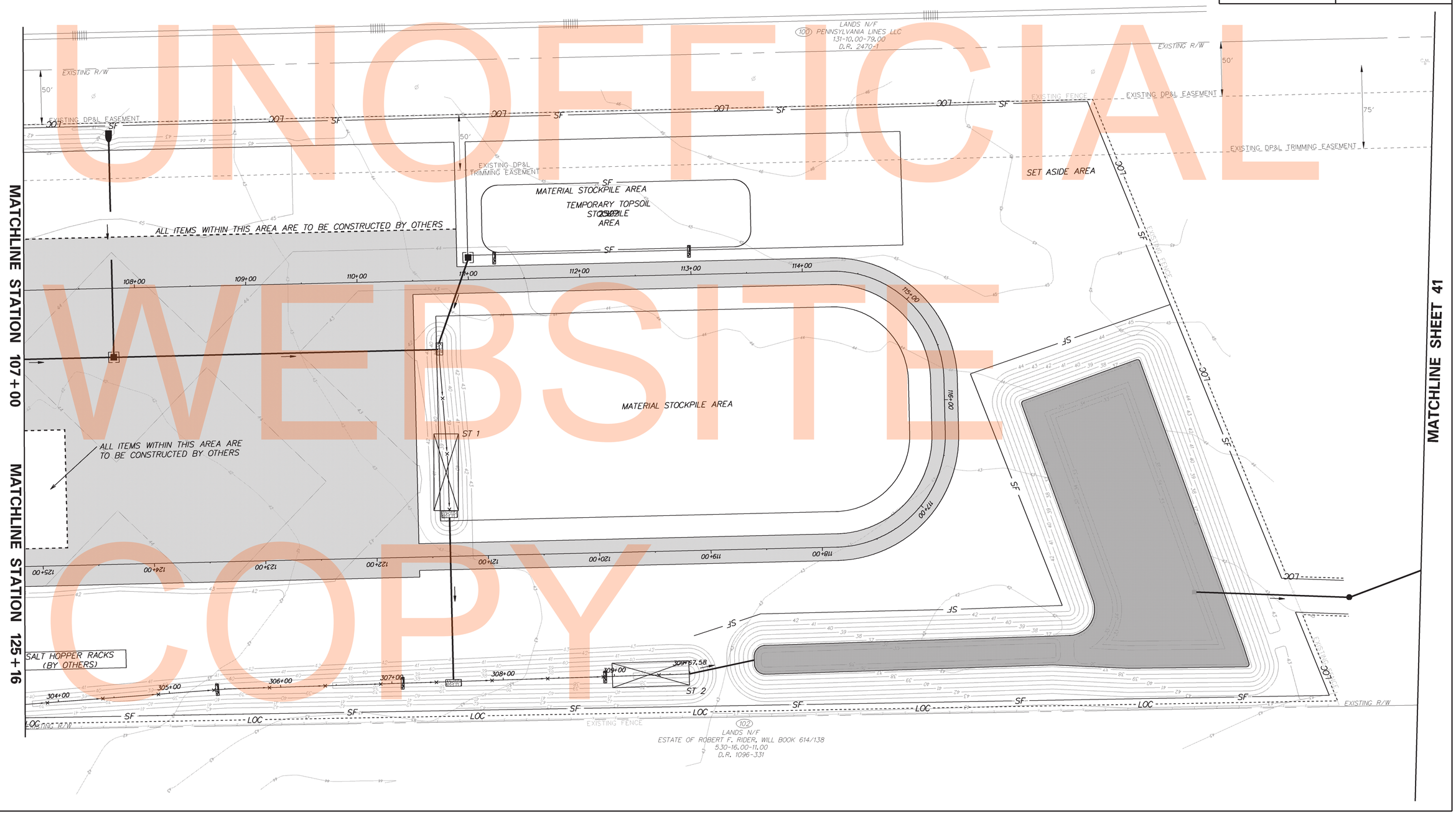
SEDIMENT TRAP SCHEDULE

NO.	D. AREA	LENGTH	WIDTH	DEPTH	OUT. TYPE	OUT. EL.	CLEAN EL.
1	8.0 AC	50	12	2	STONE	39.10'	38.10'
2	11.0 AC	80	20	2	STONE	39.00'	38.00'



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EROSION AND SEDIMENT CONTROL PLANS

SCALE
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FEET

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C-35	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	36	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

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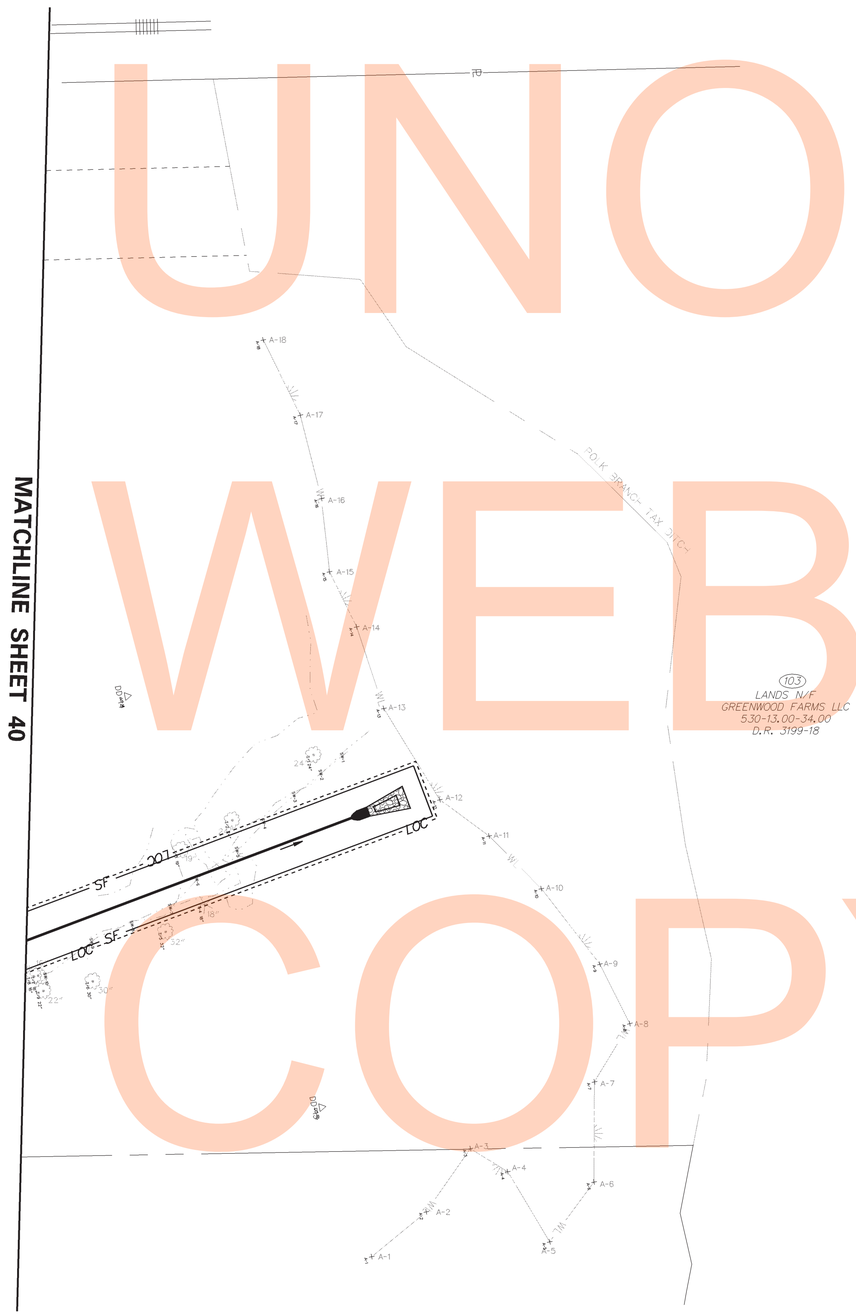

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UTILITY DETAILS

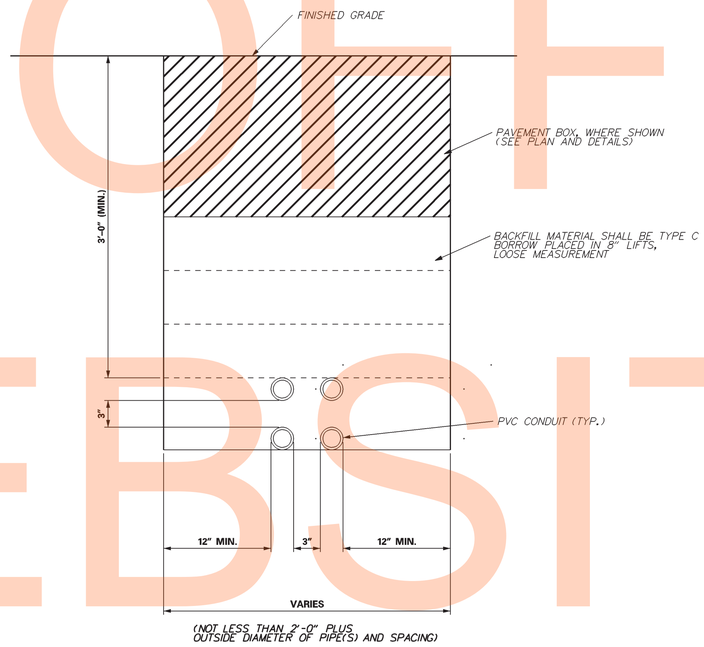
NOT TO SCALE

C-36	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	37	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14	



DUCT BANK TYPICAL CONSTRUCTION DETAIL

GENERAL NOTES:

1. DUCT BANK TO BE PLACED ON UNDISTURBED SOIL, COMPACTED AS REQUIRED TO 90% COMPACTION.

2. COMMUNICATION CONDUIT SHALL MAINTAIN THE FOLLOWING CLEARANCES:

   FROM POWER-
   3" IN CONCRETE ENCASEMENT
   4" IN MASONRY ENCASEMENT
   12" IN SOIL

   FROM GAS, OIL, WATER, ETC.-
   6" WHEN CROSSING
   12" WHEN PARALLEL

3. THE CONTRACTOR HAS THE OPTION TO USE LARGER SIZE CONDUIT THAN SPECIFIED ON THE PLANS AND NO ADDITIONAL COST TO THE OWNER.

4. CONDUITS SHOWN IN SECTION IS FOR ILLUSTRATION PURPOSES ONLY. SEE INDIVIDUAL CONDUIT RUN SCHEDULES FOR ACTUAL SIZE. CONTRACTOR TO ADJUST AND ARRANGE CONDUITS AS REQUIRED TO ACHIEVE THE NECESSARY CONNECTIONS AND SEPARATIONS.

5. CONTRACTOR SHALL USE DUCT BANK SPACERS AT INTERVALS RECOMMENDED BY THE MANUFACTURER FOR THE CONDUIT TO BE SUPPORTED. PROVIDE DUCT BANK SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL. DUCT SPACERS SHALL ALLOW PLACEMENT AND CONSOLIDATION OF FILL MATERIAL WITHOUT VOIDS.

6. ALL DEWATERING SHALL BE IN ACCORDANCE WITH SECTION 111 - DEWATERING, IN THE DELDOT SUPPLEMENTAL SPECIFICATIONS. PAYMENT FOR DEWATERING SHALL BE INCLUDED IN THE PRICE FOR CONDUIT/DUCT BANK BEING INSTALLED.

7. PAYMENT FOR EXCAVATION OF DUCT BANK SHALL BE INCLUDED IN THE PRICE FOR CONDUIT.

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	T201280104	SUSSEX	SEE TITLE SHEET	38	80

UTILITY PLANS

SCALE
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FEET

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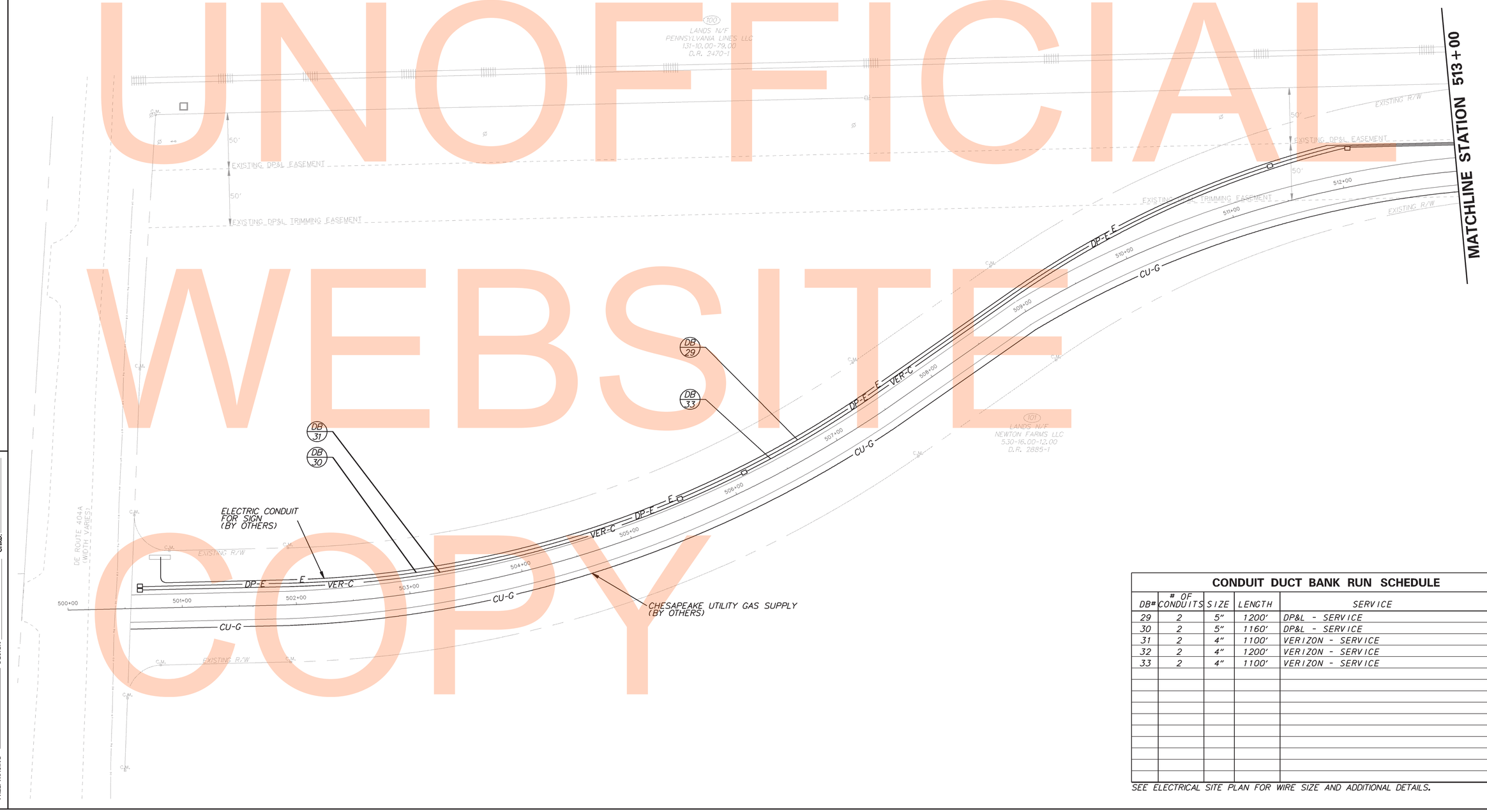
BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

REVISIONS

ADDENDUM 2 4/9/14



CONDUIT DUCT BANK RUN SCHEDULE

DB#	# OF CONDUITS	SIZE	LENGTH	SERVICE
29	2	5"	1200'	DP&L - SERVICE
30	2	5"	1160'	DP&L - SERVICE
31	2	4"	1100'	VERIZON - SERVICE
32	2	4"	1200'	VERIZON - SERVICE
33	2	4"	1100'	VERIZON - SERVICE

SEE ELECTRICAL SITE PLAN FOR WIRE SIZE AND ADDITIONAL DETAILS.

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C-38	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	39	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

UTILITY PLANS

SCALE
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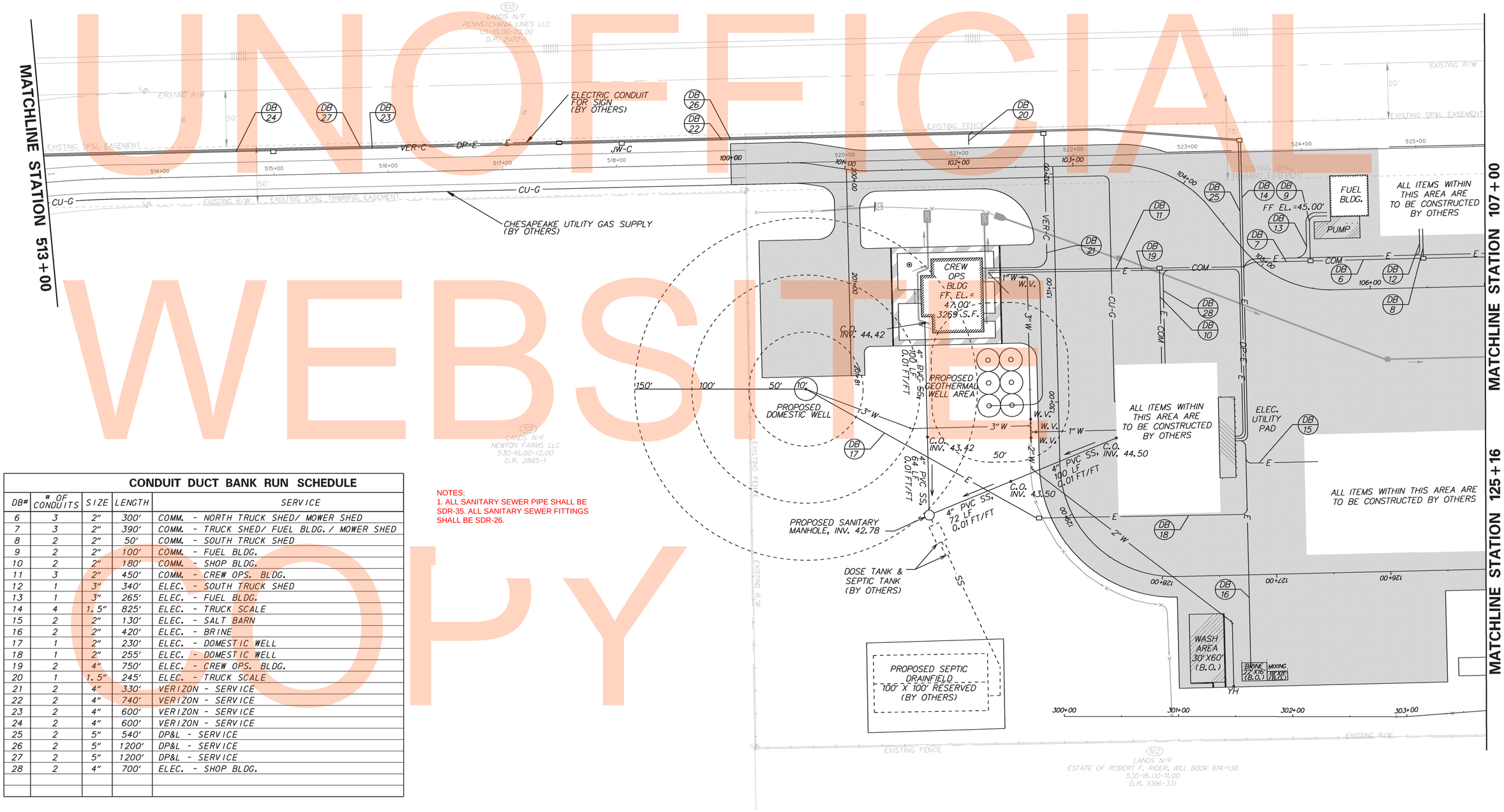
REVISIONS

ADDENDUM 2 4/9/14



CONDUIT DUCT BANK RUN SCHEDULE

DB#	# OF CONDUITS	SIZE	LENGTH	SERVICE
6	3	2"	300'	COMM. - NORTH TRUCK SHED/ MOWER SHED
7	3	2"	390'	COMM. - TRUCK SHED/ FUEL BLDG. / MOWER SHED
8	2	2"	50'	COMM. - SOUTH TRUCK SHED
9	2	2"	100'	COMM. - FUEL BLDG.
10	2	2"	180'	COMM. - SHOP BLDG.
11	3	2"	450'	COMM. - CREW OPS. BLDG.
12	1	3"	340'	ELEC. - SOUTH TRUCK SHED
13	1	3"	265'	ELEC. - FUEL BLDG.
14	4	1.5"	825'	ELEC. - TRUCK SCALE
15	2	2"	130'	ELEC. - SALT BARN
16	2	2"	420'	ELEC. - BRINE
17	1	2"	230'	ELEC. - DOMESTIC WELL
18	1	2"	255'	ELEC. - DOMESTIC WELL
19	2	4"	750'	ELEC. - CREW OPS. BLDG.
20	1	1.5"	245'	ELEC. - TRUCK SCALE
21	2	4"	330'	VERIZON - SERVICE
22	2	4"	740'	VERIZON - SERVICE
23	2	4"	600'	VERIZON - SERVICE
24	2	4"	600'	VERIZON - SERVICE
25	2	5"	540'	DP&L - SERVICE
26	2	5"	1200'	DP&L - SERVICE
27	2	5"	1200'	DP&L - SERVICE
28	2	4"	700'	ELEC. - SHOP BLDG.

NOTES:
1. ALL SANITARY SEWER PIPE SHALL BE SDR-35. ALL SANITARY SEWER FITTINGS SHALL BE SDR-26.

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C-39	CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
	T201280104	SUSSEX	SEE TITLE SHEET	40	80

BRIDGEVILLE MAINTENANCE YARD DEVELOPMENT

UTILITY PLANS

SCALE
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FEET

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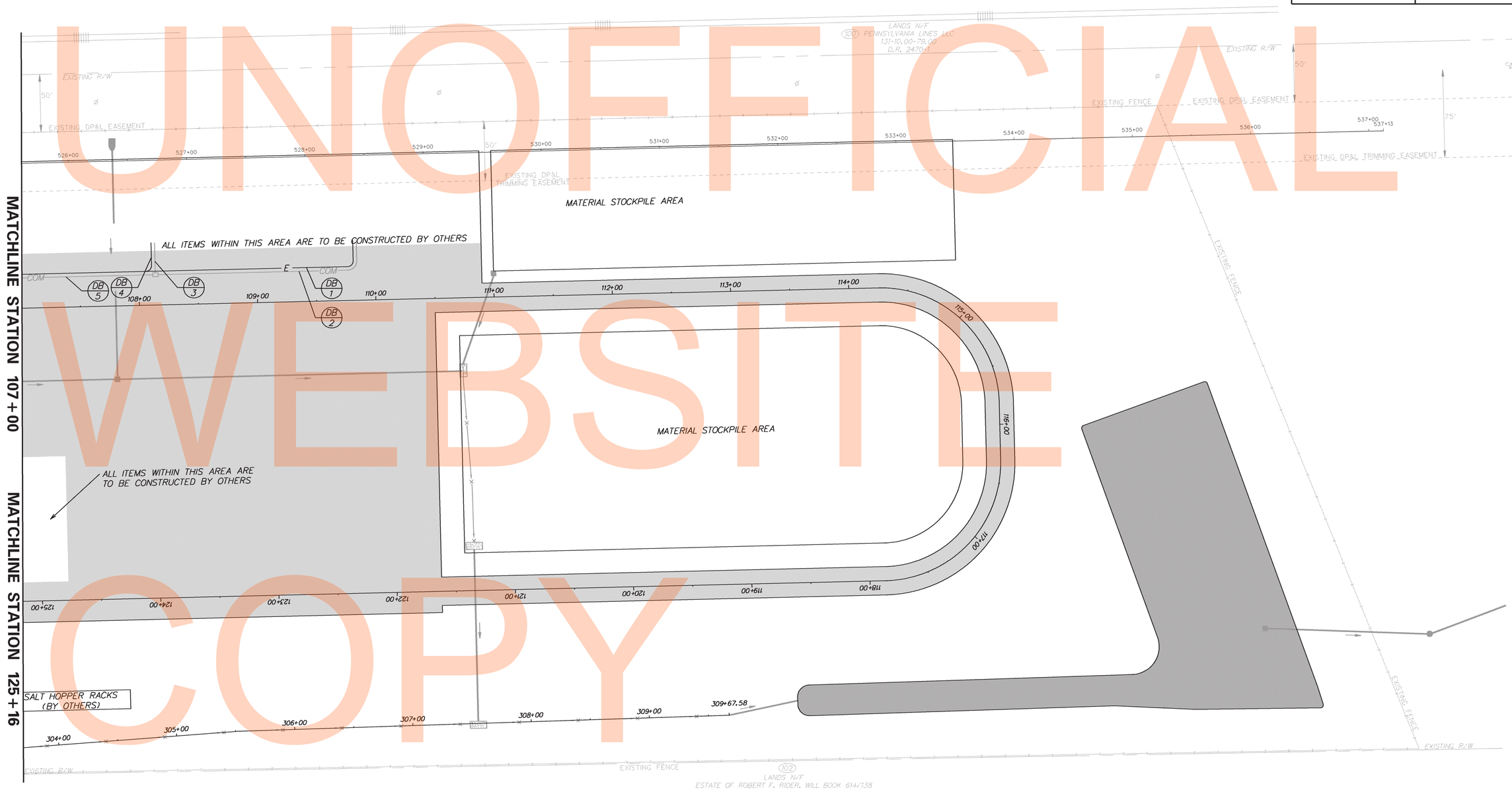
REVISIONS

ADDENDUM 2 4/9/14

CONDUIT DUCT BANK RUN SCHEDULE

DB#	# OF CONDUITS	SIZE	LENGTH	SERVICE
1	1	3"	675'	ELEC. - MOWER SHED
2	2	2"	370'	COMM. - MOWER SHED
3	2	2"	50'	COMM. - NORTH TRUCK SHED
4	1	3"	505'	ELEC. - NORTH TRUCK SHED
5	3	2"	495'	COMM. - NORTH TRUCK SHED/ MOWER SHED



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