

HOMA LANE DRAINAGE IMPROVEMENTS

LIST OF UTILITIES AND EMERGENCY CONTACT INFORMATION

FIRE DEPARTMENT:	FIRE DEPARTMENT SEAN McDYER, FIRE CHIEF 1001 EAST BOULEVARD ALPHA, NEW JERSEY 08865
POLICE DEPARTMENT:	PHILLIPSBURG POLICE DEPARTMENT 675 CORLISS AVENUE PHILLIPSBURG, NEW JERSEY 08865 908-454-1121
PUBLIC WORKS:	PUBLIC WORKS 1001 EAST BOULEVARD ALPHA, NEW JERSEY 08865 908-454-3143
WATER AND SEWER:	PUBLIC WORKS 1001 EAST BOULEVARD ALPHA, NEW JERSEY 08865 908-454-3143
ELECTRIC:	JCP&L BAXTER TURLEY 300 MADISON AVENUE, SUITE B MORRISTOWN, NEW JERSEY 07960 973-644-4259
CABLE:	SERVICE ELECTRIC CABLE TV FIRST LAST, TITLE 37 SITGREAVES STREET PHILLIPSBURG, NEW JERSEY 08865 610-865-9100
GAS:	ELIZABETHTOWN GAS GREGG BALING, TITLE 12 WEST JERSEY STREET ELIZABETH, NEW JERSEY 07201 908-436-0538
TELEPHONE:	VERIZON COMMUNICATIONS SHERYL SAURER, TITLE 1 VERIZON WAY BASKING RIDGE, NEW JERSEY 07920 973-660-1065

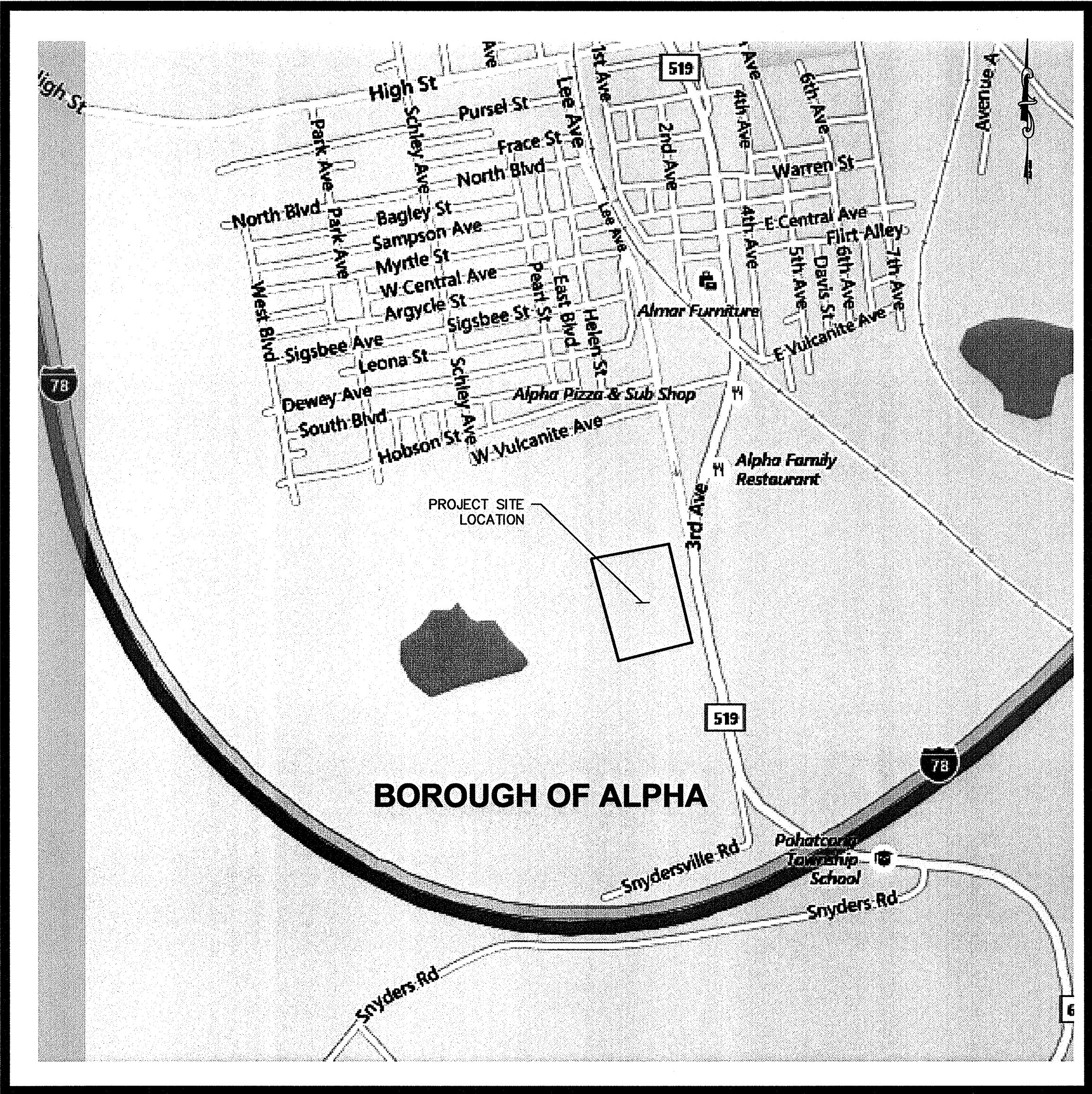
FUNDING SOURCE:

MUNICIPAL



New Jersey One Call
CALL BEFORE YOU DIG
811 or 1-800-272-1000
IT'S THE LAW

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT NJ ONE CALL PRIOR TO THE START OF CONSTRUCTION. CALL FOR MARKOUTS THREE (3) FULL BUSINESS DAYS IN ADVANCE AND BEGIN EXCAVATION WITHIN 10 DAYS. ALL CONTRACTORS ON-SITE MUST HAVE THEIR OWN MARKOUT.



PROJECT LOCATION MAP

LONGITUDE: 74° 38' 42" W, LATITUDE: 40° 11' 01" N

SCALE: 1" = 400'

LENGTH OF PROJECT = 1,025 LF OR 0.194 MILES

THE BOUND VERSION OF THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF 2007 (U.S. CUSTOMARY ENGLISH UNITS) AND ALL AMENDMENTS IN THE SUPPLEMENTAL SPECIFICATION FORMAT THERE TO SHALL GOVERN.

THE HEADING OF ARTICLES CONTAINED HEREIN CONFORM TO THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2007 AND ALL ADDENDA THERE-TO WHICH IS TO BE USED IN THE EXECUTION OF THIS CONTRACT.

BOROUGH OF ALPHA WARREN COUNTY, NEW JERSEY

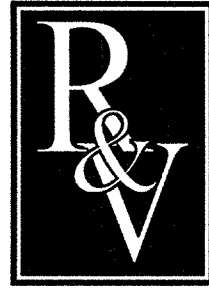
JANUARY, 2017

SHEET INDEX

SHEET #	DESCRIPTION
1	TITLE SHEET
2	LEGEND
3	ESTIMATE OF QUANTITIES AND PROJECT NOTES
4	EXISTING TOPOGRAPHIC CONDITIONS PLAN
5	SITE AND GRADING PLAN
6	ENVIRONMENTAL AND SOIL EROSION AND SEDIMENT CONTROL PLAN
7	SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
8	LANDSCAPE NOTES AND DETAIL
9	CONSTRUCTION DETAILS

BOROUGH GOVERNMENT

MAYOR
HONORABLE CRAIG DUNWELL
COUNCIL PRESIDENT
TRACY GROSSMAN
COUNCIL MEMBERS
LOUIS J. CARTABONA
JENNIFER GABLE
PETER PETTINELLI
MIKE SCHWAR
THOMAS SEISS
BOROUGH CLERK
LAURIE A. BARTON, RMC, CMR



**REMINGTON
& VERNICK
ENGINEERS**

232 KINGS HIGHWAY EAST
HADDONFIELD, N.J. 08033
(856) 795-9595, FAX (856) 795-1882
WEB SITE ADDRESS : WWW.RVE.COM
Certification of Authorization: 24 GA 28030800

~ENGINEERING EXCELLENCE SINCE 1901~

DATE:

1-25-2017

FRANK J. SENEY JR.
NJ PROFESSIONAL ENGINEER LIC. No. 35321

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

TITLE SHEET

BOROUGH OF ALPHA
HOMA LANE DRAINAGE IMPROVEMENTS

WARREN ALPHA NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
W.W.	W.W.	F.J.S.	AS NOTED
DATE:	DATE:	SHEET No.:	
8/8/2016		1 of 9	
JOB No.:			
2102-T-061			

NOTE: ALL SYMBOLS MAY NOT BE USED

UTILITIES

[illegible]

ESTIMATE OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNITS	PLAN QUANTITY	IF AND WHERE DIRECTED	CONTRACT QUANTITY	AS-BUILT QUANTITY
1	SILT FENCE	L.F.	1,915	200	2,115	
2	HAY BALE (IF AND WHERE DIRECTED)	UNIT	0	20	20	
3	CONSTRUCTION DRIVEWAY	TON	45	5	50	
4	CLEARING SITE	L.S.	1	0	1	
5	EARTHWORK	L.S.	1	0	1	
6	15" REINFORCED CONCRETE PIPE, CLASS III	L.F.	40	16	56	
7	CONCRETE HEADWALL	C.Y.	4	1	5	
8	CHAIN-LINK FENCE, PVC-COATED STEEL, 6' HIGH	L.F.	500	50	550	
9	RIP RAP STONE CHANNEL PROTECTION, 24" THICK (D50=12")	S.Y.	12	3	15	
10	ARTICULATED CONCRETE BLOCK SLOPE PROTECTION	S.F.	4,150	450	4,600	
11	FERTILIZING AND SEEDING, TYPE ERNMX-131	S.Y.	13,685	1,315	15,000	
12	STRAW MULCHING	S.Y.	13,685	1,315	15,000	
13	LARGE DECIDUOUS TREE, 2 1/2" - 3" CALIPER, B & B	UNIT	14	1	15	
14	EVERGREEN TREE, 9' - 10' HIGH, B & B	UNIT	9	1	10	

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF THE CONSTRUCTION, ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
2. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
3. THE CONTRACTOR SHALL USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. ALL PAVED AND CONCRETE AREAS DISTRIBUTED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF CONSTRUCTION.
5. ALL GRASSED OR WOODED AREAS DISTRIBUTED DURING CONSTRUCTION SHALL BE SEEDED AND STRAW MULCHED..
6. ALL FILL SHALL BE PLACED IN 6" LOOSE LAYERS AND THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER. IF BORROW FILL IS REQUIRED, IT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. COMPACTION OF ALL MATERIAL SHALL BE 95% PROCTOR DENSITY (ASTM D 1557).
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF THE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION AND IT SHALL BE AT HIS OWN EXPENSE TO REPAIR OR REPLACE ANYTHING THAT HE DAMAGES.
8. ALL CONSTRUCTION DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH N.J.D.O.T. STANDARDS AS DETAILED IN "STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL/BRIDGE CONSTRUCTION DETAILS, 2016." ALL APPLICABLE BASELINE DOCUMENT CHANGES AND APPENDICES SHALL ADHERE. THESE DETAILS CAN BE VIEWED AND PRINTED OUT AT: [HTTP://WWW.STATE.NJ.US/TRANSPORTATION/ENG/CADD](http://www.state.nj.us/transportation/eng/cadd).
9. ALL UNUSED MATERIAL EXCAVATED FROM THE PROJECT SITE ARE TO BE DISPOSED OF AT AN APPROVED FACILITY.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED IN THE PLANS AND SPECIFICATIONS.
11. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
12. ALL TREE REMOVALS ARE TO BE VERIFIED BY THE ENGINEER PRIOR TO REMOVAL. ALL TREE PLANTINGS ARE APPROXIMATE WITH FINAL LOCATIONS TO BE ESTABLISHED IN THE FIELD.
13. THE PAY ITEM "EARTHWORK" IS DEFINED AS STRIPPING, GRADING, FILLING, CUTTING AND THE GENERAL MOVEMENT OF TOPSOIL AND/OR EARTH TO PROVIDE FOR THE FINAL GRADES AS SHOWN ON THE CONTRACT DRAWINGS.
14. SEPARATE PAYMENT WILL NOT BE MADE FOR BORROW EXCAVATION, BORROW TOPSOIL OR EXCAVATION OF ANY KIND ASSOCIATED WITH THE PAY ITEM "EARTHWORK," BUT THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "EARTHWORK."

PERMIT CONDITIONS

1. ALL ACTIVITIES APPROVED BY THIS PERMIT SHALL BE UNDERTAKEN USING THE BEST MANAGEMENT PRACTICES AVAILABLE. FURTHERMORE, THE SITE SHALL BE SUBJECT TO INSPECTION AT ANY TIME BY REPRESENTATIVES OF THE ENGINEER TO ENSURE THE CONTINUOUS APPLICATION OF THE PROVISIONS OF THIS PERMIT.
2. DURING THE COURSE OF CONSTRUCTION, NEITHER THE CONTRACTOR SHALL CAUSE OR PERMIT ANY UNREASONABLE INTERFERENCE WITH THE FREE FLOW OF THE DITCH BY PLACING OR DUMPING ANY MATERIALS, EQUIPMENT, DEBRIS, OR STRUCTURES WITHIN OR ADJACENT TO THE DITCH CORRIDOR. UPON COMPLETION OR ABANDONMENT OF THE WORK, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF, IN A LAWFUL MANNER, ALL EXCESS MATERIALS, EQUIPMENT, AND DEBRIS FROM THE DITCH CORRIDOR AND ADJACENT LANDS.
3. ALL ACTIVITIES AUTHORIZED BY THIS PERMIT SHALL BE STABILIZED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY TO PREVENT ERODED SOIL AND SEDIMENT FROM ENTERING ADJACENT PROPERTIES AT ANY TIME DURING AND SUBSEQUENT TO CONSTRUCTION. THE OWNER RESERVES THE RIGHT TO ORDER THE SUSPENSION OF ANY ACTIVITY IF UNACCEPTABLE LEVELS OF EROSION OR TURBIDITY RESULT FROM THE SAME. FURTHERMORE, THE CONTRACTOR SHALL MAINTAIN THE DITCH CORRIDOR, AS SHOWN ON THE APPROVED DRAWINGS, FOR THE DITCH'S BANKS TO BECOME REASONABLY STABILIZED.
4. ANY AND ALL PRECAUTIONS SHALL BE TAKEN TO PREVENT RAW CONCRETE FROM COMING INTO CONTACT WITH THE DITCH, SINCE RAW CONCRETE IS TOXIC TO AQUATIC BIOTS. THE DITCH BED SHALL BE LEFT INTACT AND ANY MINOR DISTURBANCE AREA TO BE RESTORED USING NATIVE SUBSTRATE.
5. ALL WORKERS SHALL BE INSTRUCTED TO REMOVE ANY TURTLES AND/OR ANY WILDLIFE IN GENERAL OUT OF HARMS WAY. SILT FENCING SHALL BE PLACED ALONG ACTIVE CONSTRUCTION AREAS/EXCAVATION IN ORDER TO PREVENT THEIR ACCESS TO THESE AREAS.
6. AREAS OF TEMPORARY EXCAVATION MUST BE RESTORED WITH NATIVE, INDIGENOUS SPECIES. THE EMBANKMENTS MUST BE RESTORED WITH NATIVE VEGETATION AND STABILIZED.
7. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF IN A LAWFUL MANNER, FOR EXAMPLE, IT SHALL BE PLACED OUTSIDE OF ANY FLOOD HAZARD AREA, RIPARIAN ZONE, AND REGULATED WATER IN SUCH A WAY AS NOT TO INTERFERE WITH THE POSITIVE DRAINAGE OF THE RECEIVING AREA.

ENVIRONMENTAL NOTES AND COMMITMENTS

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND/OR AREA IS STABILIZED.
2. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE WARREN COUNTY SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
3. ALL CONSTRUCTION SOIL DISTURBANCES, WHERE SOIL IS SUBJECT TO MOVEMENT OUTSIDE OF THE PROJECT LIMITS, SHALL REQUIRE SILT FENCING AROUND THE TEMPORARY CONSTRUCTION DISTURBANCES.
4. ALL TERMS AND CONDITIONS OF THE ENVIRONMENTAL PERMITS SHALL BE ADHERED TO. NO CHANGES IN THE CONDITIONS, PLANS, OR SPECIFICATIONS SHALL BE MADE EXCEPT WITH THE PRIOR WRITTEN PERMISSION OF THE NJDEP.
5. A COPY OF THE PERMIT SHALL BE KEPT AT THE WORK SITE AND SHALL BE EXHIBITED UPON REQUEST OF ANY PERSON.
6. AREAS OF TEMPORARY DISTURBANCE SHALL BE RESTORED TO ORIGINAL GRADE AND SHALL BE REPLANTED WITH APPROPRIATE VEGETATION UPON COMPLETION OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.
7. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE OF THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAY, SHALL BE REMOVED IMMEDIATELY. PAVED ROADS AND DRIVEWAYS SHALL BE KEPT CLEAN AT ALL TIMES.
8. CONTRACTOR IS RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFF-SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
9. CONTRACTOR IS RESPONSIBLE TO VISIT THE SENSITIVE AREAS PERIODICALLY AND TO ENSURE THE EROSION CONTROLS ARE FUNCTIONING PROPERLY AND INTRODUCE ADDITIONAL CONTROL IF IT IS NECESSARY. ALSO, ANY ADDITIONAL EROSION AND SEDIMENTATION THAT OCCURS WITHIN THE PROJECT SITE SHALL TO BE PROPERLY ADDRESSED.
10. DUST/DIRT CONTROL: EMPLOY CONSTRUCTION METHODS THAT MINIMIZE AIRBORNE DUST. APPLY WATER OR OTHER APPROVED MATERIALS TO UNPAVED AREAS TO CONTROL DUST CAUSED BY HAULING OR OTHER CONSTRUCTION OPERATIONS.
11. ACID PRODUCING SOIL IS TO BE TREATED ACCORDING TO THE NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL AND AS SPECIFIED IN 202.03.05 OF THE SPECIFICATIONS. ENSURE THE CLEANING OF EQUIPMENT USED TO MOVE THE ACID-PRODUCING SOIL IS CONDUCTED AT A MINIMUM OF 50 FEET FROM THE DITCH OR OTHER ENVIRONMENTAL SENSITIVE AREA.
12. STORE PESTICIDES, FERTILIZERS, FUELS, LUBRICANTS, PETROLEUM PRODUCTS, ANTIFREEZE, PAINTS AND PAINT THINNERS, CLEANING SOLVENTS AND ACIDS, DETERGENTS, CHEMICAL ADDITIVES, AND CONCRETE CURING COMPOUNDS IN CONTAINERS IN A DRY, COVERED AREA.
13. IMPLEMENT SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR CONSTRUCTION.
14. BEST MANAGEMENT PRACTICE SHALL BE UTILIZED DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING ENVIRONMENTALLY SENSITIVE AREAS.



REMINGTON
& VERNICK
ENGINEERS

232 KINGS HIGHWAY EAST
HADDONFIELD, N.J. 08033

WEB SITE ADDRESS : WWW.RVE.COM

Certification of Authorization: 24 GA 28003800

~ENGINEERING EXCELLENCE SINCE 1901

DATE _____

EDANK / SENEV ID

NJ PROFESSIONAL ENGINEER LIC. No. 35321

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ESTIMATE OF QUANTITIES AND PROJECT NOTES

BOROUGH OF ALPHA
HOMA LANE DRAINAGE IMPROVEMENTS

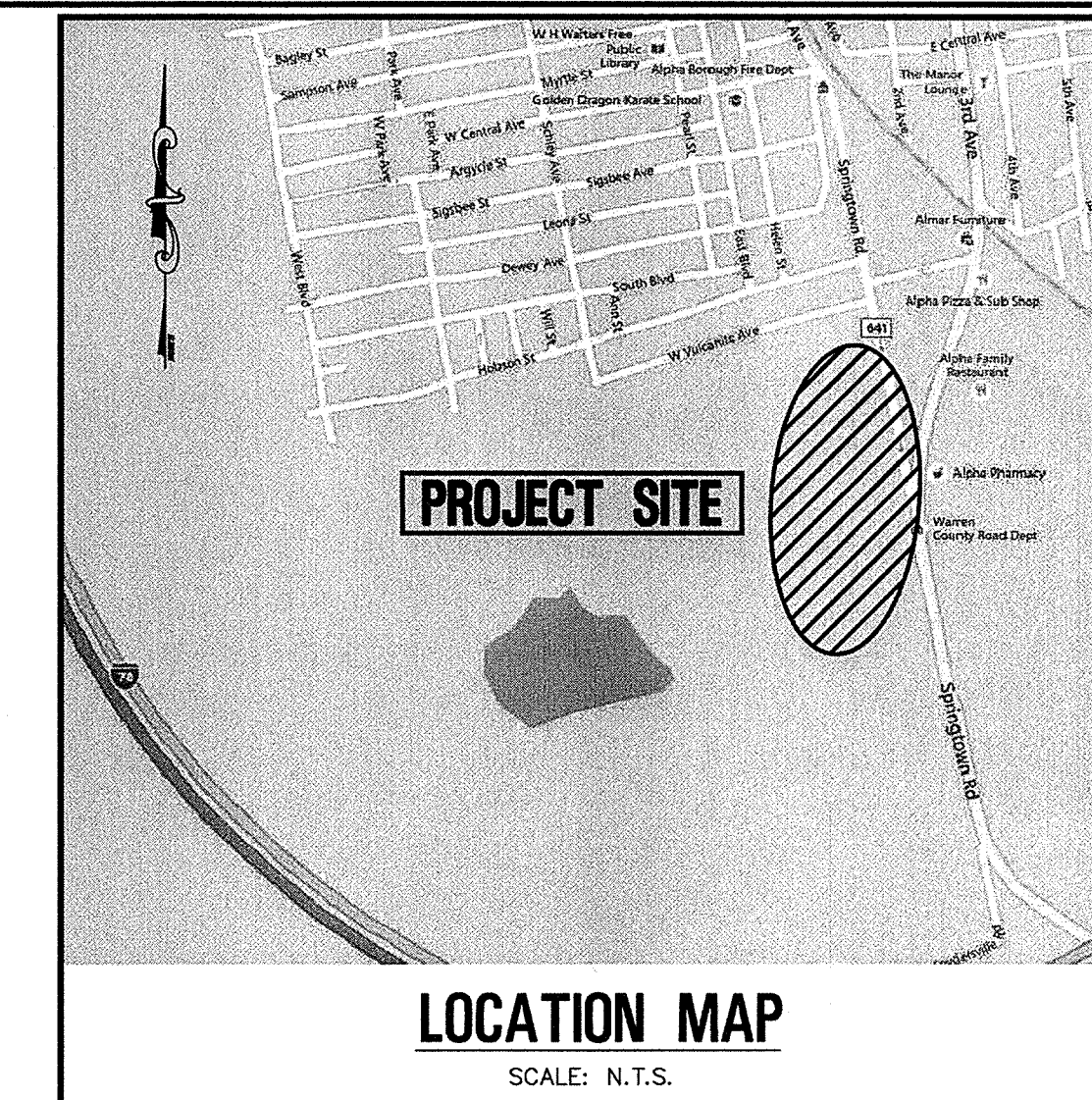
NEW JERSEY

11/18/2021

Appendix IV

<u>DRAWN BY :</u> W.W.	<u>DESIGN BY :</u> W.W.	<u>CHECKED BY :</u> F.J.S.	<u>SCALE :</u> AS NOTED
<u>DATE :</u> 8/8/2016		<u>SHEET No. :</u> 3 of 9	
<u>JOB No. :</u> 2102-T-061			

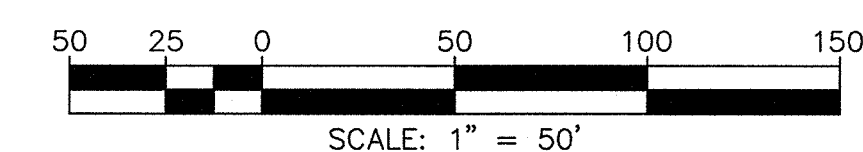
1. THE HORIZONTAL DATUM IS BASED ON NAD-1983 (GRID COORDINATES) AND THE VERTICAL DATUM IS BASED ON NAVD-1988 (ADD 0.74' TO THESE ELEVATIONS TO CONVERT TO NGVD-1929 DATUM)
2. PROPERTY AND RIGHT-OF-WAY LINES SHOWN ON THESE PLANS ARE APPROXIMATE LOCATIONS BASED ON THE CURRENT TAX MAPS OF THE BOROUGH OF ALPHA, WARREN COUNTY, NEW JERSEY. PROPERTY AND RIGHT-OF-WAY LINES ARE SHOWN FOR GRAPHICAL INFORMATION ONLY AND HAVE NOT BEEN FIELD VERIFIED.
3. EXISTING TOPOGRAPHIC CONDITIONS WERE SURVEYED BY REMINGTON & VERNICK ENGINEERS UNDER THE SUPERVISION OF CHARLES E. ADAMSON, N.J.P.L.S. LICENSE NO. 42627. THE SURVEY WORK WAS COMPLETED ON JULY 14, 2016.



DATE: 1-25-2017
CHARLES E. ADAMSON
 NJ PROFESSIONAL LAND SURVEYOR LIC. No. 42627

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<u>DRAWN BY:</u> W.W.	<u>DESIGN BY:</u> W.W.	<u>CHECKED BY:</u> F.J.S.	<u>SCALE:</u> AS NOTED
<u>DATE:</u> 8/8/2016		<u>SHEET No.:</u> 4 of 9	
<u>JOB No.:</u> 2102-T-061			



1. THE DISTRICT SHALL BE REPRESENTED AT THE PROJECT PRECONSTRUCTION MEETING WITH THE TOWNSHIP ENGINEER, CONTRACTORS AND UTILITY REPRESENTATIVES. IF THE TOWNSHIP ENGINEER DOES NOT SCHEDULE A PRECONSTRUCTION MEETING, IT IS THE RESPONSIBILITY OF THE TOWN OWNER/APPLICANT TO SCHEDULE ONE BEFORE ANY LAND DISTURBANCE. TWO WEEKS NOTICE MUST BE GIVEN FOR SCHEDULING PRECONSTRUCTION MEETINGS.
2. FAILURE OF THE AFORESAIDED PLAN SHALL NOT RELIEVE THE APPLICANT OF ANY OF ITS RESPONSIBILITIES RELEVANT TO THE APPROPRIATE STATUTORY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES TO BE PRECEDENTALLY DEEMED NECESSARY BY THE DISTRICT IN THE EVENT OF ANY UNFORESEEN PROBLEMS INCURRED DURING CONSTRUCTION.
3. ANY CHANGES OF APPROVED PLANS SHALL REQUIRE AN ADDITIONAL SUBMITTAL TO THE DISTRICT INCLUDING APPROPRIATE RE-REVIEW FEES.
4. A 48 HOUR START OF LAND DISTURBANCE NOTIFICATION SHALL BE GIVEN.
5. IN THAT N.J.S.A. 4-24-39 ET SEQ REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BY THE MUNICIPALITY BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT DISTURBANCES, ALL APPROVED PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS WILL BE COMPLETED BEFORE THE DISTRICT ISSUES A CERTIFICATE OF COMPLIANCE. TWO WEEKS NOTICE MUST BE GIVEN TO THE DISTRICT TO SCHEDULE INSPECTION FOR CERTIFICATE OF COMPLIANCE RELEASE.
6. FINAL STABILIZATION OF ALL LAND DISTURBANCES ASSOCIATED WITH UNDERGROUND UTILITIES, IRRESPECTIVE OF PHASING, IS THE ULTIMATE RESPONSIBILITY OF THE OWNER.
7. A CASH BOND OF NOT LESS THAN \$2,500 PER DISTURBED ACRES OR PART THEREOF, OR A LOT, WILL BE POSTED WITH THE WARREN COUNTY SOIL CONSERVATION DISTRICT DURING THE NON GROWING SEASON (NOVEMBER 15 – APRIL 15) IF A CERTIFICATE OF COMPLIANCE IS NEEDED AND SOIL EROSION AND SEDIMENT CONTROL MEASURES FOR PERMANENT STABILIZATION ARE NOT COMPLETED.
8. SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY.
9. NO BUILDING PERMITS WILL BE RELEASED UNTIL ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON APPROVED PLANS ARE INSTALLED.
10. DUST TO BE CONTROLLED WITH WATER, CALCIUM CHLORIDE OR OTHER METHOD APPROVED BY THE SOIL CONSERVATION DISTRICT.
11. TRACKING PAD TO BE KEPT CLEAN AND REPAIRED AS NECESSARY.
12. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, FEBRUARY 2014.
13. SEE DETAIL SHEETS FOR ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL DETAILS.

1. TEMPORARY STABILIZATION - ALL EXPOSED AREAS NOT TO BE CONSTRUCTED UPON WITHIN 30 DAYS SHOULD BE TEMPORARY STABILIZED.
2. PERMANENT STABILIZATION - ALL EXPOSED AREAS WHICH ARE TO BE PERMANENTLY VEGETATED SHOULD BE SEEDED WITHIN 10 DAYS OF FINAL GRADING ACCORDING TO THE STANDARDS FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION.
3. TOTAL AREA OF DISTURBANCE = 5.88 ACRES



2. RECOMMENDED SEEDING PERIODS ARE 3/15 TO 5/31 AND 8/15 TO 10/30.
3. SUMMER SEEDING, 6/1 TO 8/14, SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION
4. THE CONTRACTOR SHALL PLANT THE SEED AT A RATE OF TWENTY (20) POUNDS PER ACRE.

[illegible]

<u>DRAWN BY:</u> W.W.	<u>DESIGN BY:</u> W.W.	<u>CHECKED BY:</u> F.J.S.	<u>SCALE:</u> AS NOTED
<u>DATE:</u> 8/8/2016		<u>SHEET No.:</u> 7 of 9	
<u>JOB No.:</u>			

1. A COMPLETE LIST OF PLANTS, INCLUDING A SCHEDULE OF QUANTITIES, SIZES, AND OTHER REQUIREMENTS IS SHOWN ON THE PLANT LIST. IN THE EVENT THAT DISCREPANCIES OCCUR BETWEEN THE QUANTITIES OF PLANTS INDICATED IN THE PLANT LIST AND THOSE INDICATED ON THE PLANT LIST, THE PLANT QUANTITIES INDICATED ON THE PLANT SHALL GOVERN.
2. NO SUBSTITUTIONS SHALL BE ACCEPTED, EXCEPT WITH WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT OR HIS AGENT.
3. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY. ALL PLANTS SHALL HAVE NORMAL, WELL DEVELOPED BRANCHES AND VIGOROUS ROOT SYSTEMS. THEY SHALL BE FREE FROM DEFECTS, DISTURBED KNOTS, ABRASIONS OF THE BARK, SUNSCALD INJURIES, PLANT DAMAGE, INJURY FROM BORERS AND ALL OTHER FORMS OF INSECTIONS. ALL PLANT MATERIAL INSTALLED BETWEEN OCTOBER 15 AND MARCH 15 SHALL BE THOROUGHLY WETTED WITH AN ANTI-TRANSPIRANT UPON DELIVERY OF THE MATERIAL TO THE SITE.
4. QUALITY AND SIZE OF PLANT, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1) AS PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION. THE TRANSPLANTING AND PLANTING OF TREES AND SHRUBS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "ANSI AND ALL OTHER FORMS OF TREES, SHRUB, AND OTHER WOODY PLANT MAINTENANCE-STANDARD PRACTICES (TRANSPLANTING)".
5. ALL PLANTS SHALL BE PACKED, TRANSPORTED AND HANDLED WITH UTMOST CARE TO INSURE ADEQUATE PROTECTION AGAINST INJURY AND DEHYDRATION. EACH SHIPMENT SHALL BE CERTIFIED TO BE FREE FROM DISEASES AND INFESTATION. ANY INSPECTION CERTIFICATES REQUIRED BY LAW TO THIS EFFECT SHALL ACCOMPANY EACH SHIPMENT INVOICE OR ORDER OF STOCK, AND ON ARRIVAL, THE CERTIFICATE SHALL BE FILED WITH THE LANDSCAPE ARCHITECT.
6. NO PLANT MATERIAL SHALL BE PLANTED BY THE CONTRACTOR UNTIL IT IS INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT OR HIS AGENT AT THE SITE. THE LANDSCAPE ARCHITECT OR HIS REPRESENTATIVE SHALL BE THE SOLE JUDGE OF THE QUALITY AND ACCEPTABILITY OF THE MATERIALS. ALL REJECTED MATERIALS SHALL BE IMMEDIATELY REJECTED WITH ACCEPTABLE MATERIAL AT NO ADDITIONAL COST.
7. DECIDUOUS AND EVERGREEN TREES SHALL BE FIELD ADJUSTED TO MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF TEN (10) FEET FROM ANY OVERHEAD UTILITY WIRES AND/OR UNDERGROUND UTILITIES.
8. DECIDUOUS AND EVERGREEN TREES SHALL BE PLANTED AT LEAST TWO (2) FEET FROM ANY CURBING, PAVING, OR SIDEWALK. WHENEVER POSSIBLE, THIS DIMENSION SHOULD BE INCREASED TO FOUR (4) FEET. ALL PLANTINGS, EXCEPT GROUND COVERS, SHOULD BE PLANTED AT LEAST TWO (2) FEET FROM ANY BUILDING AND FIVE (5) FEET FROM ABOVE AND BELOW GROUND UTILITIES.
9. PLANTING MIXTURE SHALL CONSIST OF 70% EXISTING SOIL FROM THE PLANTING SITE AND 30% HUMUS OR MUSHROOM SOIL. PRIOR TO USING EXISTING TOPSOIL, REMOVE ALL FOREIGN DEBRIS AND ALL ROCKS OR STONES LARGER THAN 2 INCHES. EACH CUBIC YARD SHALL BE ADDED AND INCORPORATED BY THOROUGHLY MIXING, FOUR POUNDS OF COMMERCIAL FERTILIZER HAVING AN ANALYSIS OF 6-6-8.
10. ALL PLANTS (B&B OR CONTAINER) SHALL BE PROPERLY IDENTIFIED BY WEATHERPROOF LABELS AND SECURELY ATTACHED THERETO BEFORE DELIVERY TO THE PROJECT SITE. LABELS SHALL IDENTIFY THE PLANT, PLANT SIZE, BOTANICAL NAME AND SIZE. LABELS SHALL NOT BE REMOVED UNTIL FINAL INSPECTION BY THE LANDSCAPE ARCHITECT.
11. CONTRACTOR SHALL SCALE PLANT LOCATIONS FROM THE PLANS AND STAKE LOCATIONS ON-SITE FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR HIS AGENT.
12. ALL SEEDED AREAS THAT DO NOT SHOW A PROMPT UNIFORM GERMINATION SHALL BE RESEEDD BY THE LANDSCAPE CONTRACTOR AT INTERVALS OF 45 - 60 DAYS, UNTIL A GOOD GROWTH IS ESTABLISHED OVER THE ENTIRE LAWN AREA.
13. ALL PLANT BEDS SHALL BE MULCHED WITH THREE (3) INCHES OF DOUBLE SHREDDED HARDWOOD BARK MULCH OR OTHER MATERIAL APPROVED BY THE LANDSCAPE ARCHITECT. THE LIMIT OF THE MULCH TOP SURFACE SHALL EXTEND 12 INCHES BEYOND THE PLANTING HOLE, AND FOR SHRUB AND BEDS, THE ENTIRE SHRUB OR BED AREAS AS INDICATED ON THE PLAN OR APPROVED IN THE NO MULCH SHALL BE PLACED WITHIN THREE (3) INCHES OF THE TRUNK OR TRUNK FLARE. NO SEPARATE PAYMENT SHALL BE MADE FOR MULCH, BUT THE COST SHALL BE INCLUDED IN VARIOUS ITEMS OF THE PROPOSAL.
14. ALL PLANTING BEDS SHALL BE ROTILLED TO A DEPTH OF TEN (10) INCHES PRIOR TO ANY PLANTING. ALL STONES, BRICKS, CONCRETE AND UNSUITABLE MATERIALS SHALL BE REMOVED. ALL SHRUB PLANTINGS SHALL BE INSTALLED IN MULCHED PLANTING BEDS EXTENDING AT LEAST TWO (2) FEET FROM THE PLANTS OR AS INDICATED ON THE APPROVED PLANS.
15. PLANTING BEDS SHALL BE THOROUGHLY EXCAVATED, AND BACKFILLED WITH THE PLANT MIXTURE DESCRIBED IN 9 ABOVE. ALL PAVEMENT SUB-BASE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE ISLAND PLANTING BEDS UNTIL THE VIRGIN SOIL IS REACHED.
16. IT IS UNDERSTOOD THAT THE OWNER SHALL ASSUME THE RESPONSIBILITY FOR WATERING ALL PLANT MATERIAL AND LAWN AREAS BEYOND THE GUARANTEE PERIOD FROM COMMENCING WITH THE DATE OF FINAL ACCEPTANCE.
17. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF TWO (2) YEARS FROM THE COMPLETION DATE OF INSTALLATION. ANY PLANT MATERIAL THAT IS 25% DEAD OR MORE SHOULD BE CONSIDERED DEAD AND MUST BE REPLACED. A TREE SHOULD BE CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED BACK OR WHEN 25% OF THE CROWN IS DEAD AND SHOULD BE REPLACED WITHIN 90 DAYS OF THE DATE OF THE TREE SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE EXCAVATING.
19. THE LANDSCAPE ARCHITECT OR HIS AGENT SHALL BE NOTIFIED OF ANY RELOCATION OF PLANTS MADE NEARBY UTILITIES OR OTHER EXISTING FEATURES PREVENTING THE CONTRACTOR FROM IMPLEMENTATION OF THE PLANTING AS SHOWN IN THE DRAWING. SUCH NOTIFICATION SHALL BE MADE BEFORE THE FIELD CHANGE IS CARRIED OUT.
20. PLANT MATERIAL, SHALL BE FURNISHED AND INSTALLED INCLUDING ALL LABOR, MATERIALS, PLANTS, AND EQUIPMENT, INCIDENTALS AND CLEAN UP.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT THE CORRECT GRADES AND ALIGNMENT. SET ALL PLANTS PLUMB AND STRAIGHT. SET SHRUBS AT SUCH A LEVEL THAT, AFTER SETTLEMENT, BE NORMAL TO THE NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE FINISHED GRADE. FOR TREE PLANTINGS, THE CONTRACTOR SHALL LOCATE THE HIGHEST ROOT FLARE PRIOR TO DIGGING THE PLANTING HOLE. THE PLANTING HOLE SHALL BE EXCAVATED TO A DEPTH THAT THE HIGHEST ROOT FLARE IS VISIBLE TO THE SURFACE. THE HIGHEST ROOT FLARE IS FLUSH WITH EXISTING GRADE. TREES PLANTED LOWER OR HIGHER WILL BE REJECTED. LOCATE ALL PLANTS IN THE CENTER OF THE PIT.
22. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERING DETRIMENTAL TO THE GROWTH OF THE PLANT MATERIAL.
23. INsofar AS PRACTICABLE, PLANT MATERIALS SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED LONGER THAN A TWO (2) DAY PERIOD AFTER DELIVERY.
24. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTABLE LAND PRACTICE.
25. ALL NON-BIODEGRADABLE ROOT WRAPPINGS (INCLUDING WIRE BASKETS) ARE TO BE REMOVED COMPLETELY BEFORE PLANTING.
26. EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS. SHEARS ARE TO BE STERILIZED BETWEEN TREES.
27. ALL INJURED ROOTS SHALL BE PRUNED BEFORE PLANTING, AND OBVIOUS GIRDLING ROOTS REMOVED, PRUNED OR EXTENDED AS APPROPRIATE. IT IS ADVISABLE TO PRUNE BRANCHES WHICH CROSS. THE MAIN LEADER OF DECIDUOUS TREES SHOULD NOT BE CUT BACK. LONG SIDE BRANCHES MUST BE SHORTENED.
28. TREES ARE TO BE SUPPORTED IMMEDIATELY AFTER PLANTING IF CONDITIONS MERIT. TREES SIX (6) INCHES AND OVER IN CALIPER SHALL BE GUYED. SMALLER TREES SHALL BE STAKED. GUYING WIRES AND STAKES SHALL BE AS INDICATED.
29. UNLESS OTHERWISE NOTED, ALL DECIDUOUS AND EVERGREEN TREES SHALL HAVE A SINGLE TRUNK.
30. DECIDUOUS AND EVERGREEN TREES WHICH ARE B&B SHALL BE DRUM LACED IN LIEU OF WIRE BASKETS.



1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.



DATE: 1-25-2017
FRANK J. SENEY JR.
NJ PROFESSIONAL ENGINEER LIC. No. 35321

PLANS WHICH DO NOT BEAR
AN EMBOSSED SEAL ARE NOT VALID.

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[illegible]

ALPHA WARREN NEW JERSEY

DRAWN BY: W.W.	DESIGN BY: W.W.	CHECKED BY: F.J.S.	SCALE: AS NOTED
DATE: 8/8/2016		SHEET No.: 8 of 9	
JOB No.: 2102-T-061			



DATE: 1-25-2017
FRANK J. SENEY JR.
NJ PROFESSIONAL ENGINEER LIC. No. 35321

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[illegible]

CONSTRUCTION DETAILS

HOME LANE DRAINAGE IMPROVEMENTS

NEW JERSEY

WARREN

ALPHA

<u>DRAWN BY:</u> W.W.	<u>DESIGN BY:</u> W.W.	<u>CHECKED BY:</u> F.J.S.	<u>SCALE:</u> AS NOTED
<u>DATE:</u> 8/8/2016		<u>SHEET No.:</u> 9 of 9	
<u>JOB No.:</u> 2102-T-061			



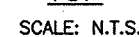
NOTE:

1. FLANKING IS REQUIRED ON THE OUTER EXTENTS OF THE AREA OF COVERAGE.
2. PAYMENT WILL NOT BE MADE FOR THE NJDOT CLASS 'b' CONCRETE OR STABILIZATION GEOTEXTILE. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "ARTICULATED CONCRETE BLOCK SLOPE PROTECTION."



NOTE:

1. PAYMENT WILL NOT BE MADE FOR THE NJDOT DENSE-GRADED AGGREGATE, 4" DRAINAGE MEDIUM STONE LAYER, GEOTGRID, AND STABILIZATION GEOTEXTILE. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "ARTICULATED CONCRETE BLOCK SLOPE PROTECTION."



SIDE
SCALE: N.T.S.

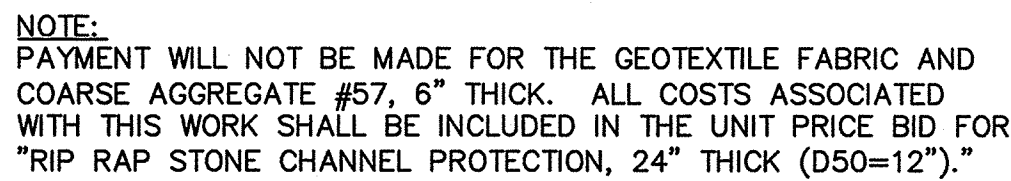
NOMINAL DIMENSIONS:
 L = 1' - 5 1/2"
 W = 1' - 11 1/4"
 H = 4 3/4"

NOTE:

THE ARTICULATED CONCRETE BLOCK SHALL BE ARMORFLEX CLASS 40 BLOCK 1.5, MANUFACTURED BY CONTECH ENGINEERED SOLUTIONS LLC, OR APPROVED EQUAL.



SCALE: 1" = 5'



END TREATMENT FOR CHANNEL PROTECTION

SCALE: N.T.S.

