

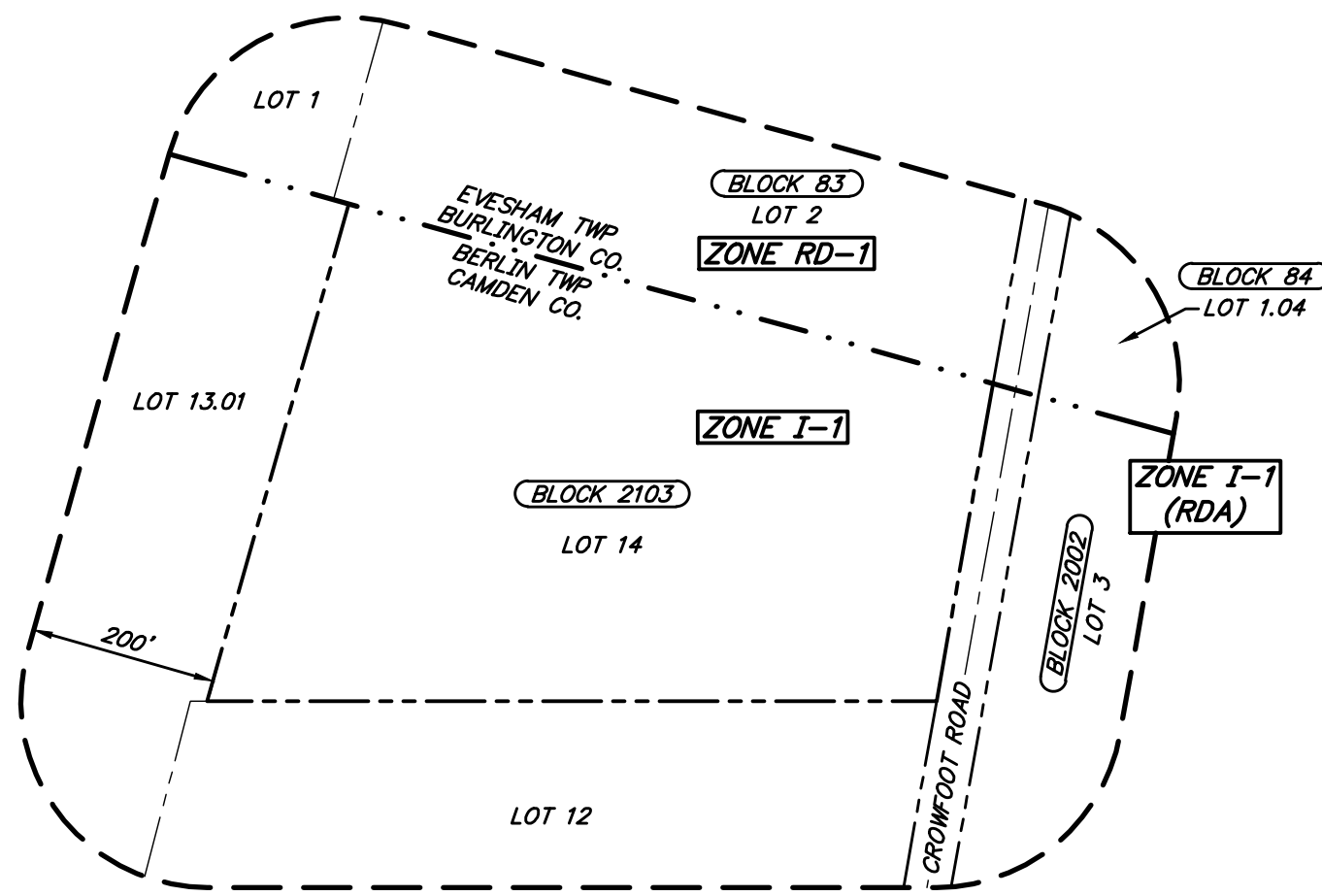


Key Map
scale: 1 inch = 1,000 feet
Taken from GOOGLE MAPS



Soils Map
scale: 1 inch = 300 feet
Taken from Web Soil Survey

LatB - Lakewood fine sand, 0 to 5 percent slopes



Properties & Zoning Within 200' Map
scale: 1" = 200'

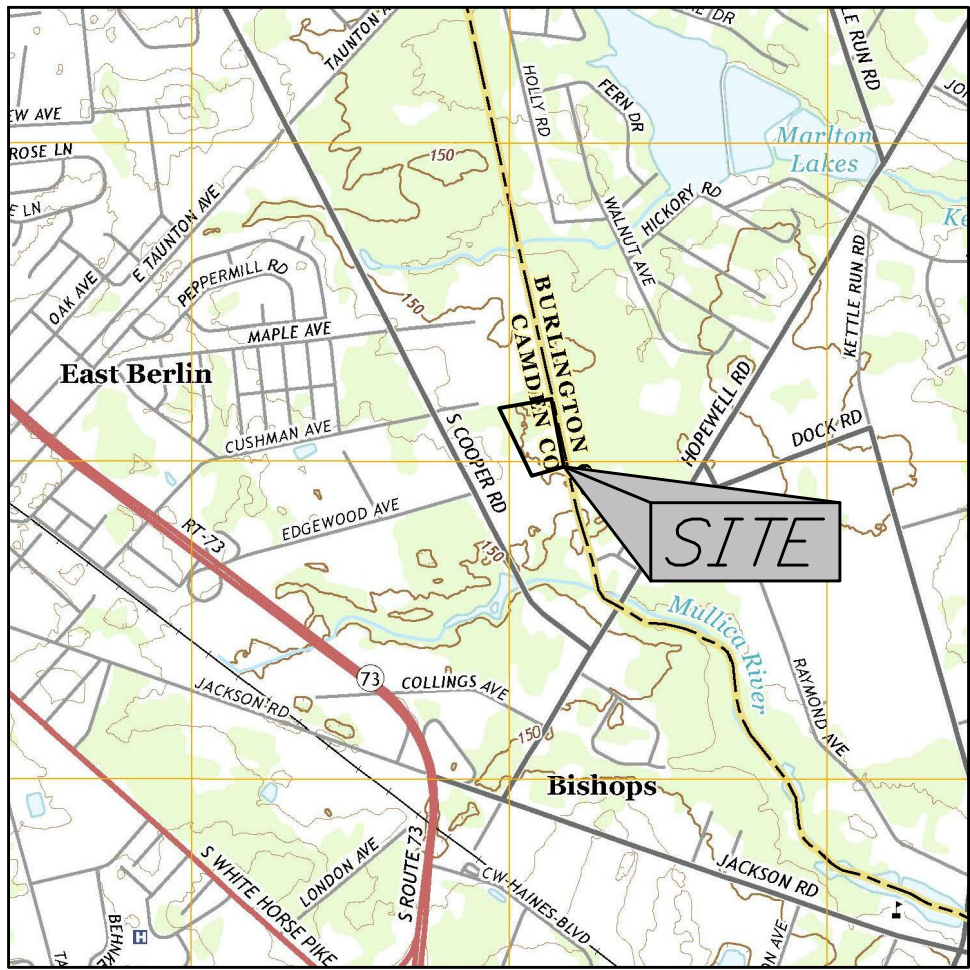
Property Owners Within 200':

BERLIN TOWNSHIP			EVESHAM TOWNSHIP		
BLOCK	LOT	OWNER	BLOCK	LOT	OWNER
2103	12	ANTHONY SAPONARO 581 COOPER ROAD WEST BERLIN, NJ 08091 561 COOPER ROAD	83	1	EVESHAM TOWNSHIP 984 TUCKERTON ROAD MARLTON, NJ 08053 275 HOLLY ROAD
13.01		JENSTAR OF BERLIN, LLC P.O. BOX 1400 VOORHEES, NJ 08043 370-400 CHESTNUT AVENUE	2		JOSEPH LEOTTI-STAGLIANO 144 TANGBORO ROAD BERLIN, NJ 08009 101 DAVENPORT AVENUE
2002	3	D.L.R. LLC 2211 TREMONT AVENUE ATCO, NJ 08004 601-603 COOPER ROAD	84	1.04	CARMEN & ANNA MARIA VONA 1715 MCKEAN @COLORADO COURT PHILADELPHIA, PA 19145 826 HOWELL ROAD
5000	1	VERIZON-NJ-C/O DUFF & PHELPS P.O. BOX 2749 ADDISON, TX 75001 TELEPHONE LINES			

AMENDED SITE PLAN FOR JMA LANDSCAPING PLATE 21, BLOCK 2103, LOT 14 #145 CROWFOOT ROAD Township of Berlin, Camden County, New Jersey

General Construction Notes:

- The contractor shall procure all required permits, licenses and inspections. Contractor shall be responsible for all charges and fees as well as, give notices necessary for all incidentals for project.
- All demolition/ removal items (ballards, fence, concrete, glass, wood, etc.) shall be removed from the project and disposed of at a lawful site, provided by the contractor, at his expense.
- Excess excavated materials shall be delivered to a lawful site location, provided by the contractor at his expense.
- All construction debris (asphalt, concrete, etc.) must be removed from the project site prior to the end of each day to eliminate any potential hazards.
- All areas disturbed/damaged by the contractor, shall be returned to its original condition or better, by the contractor, at his expense.
- The location of all existing utility lines, mains, services, appurtenances must be verified by the contractor prior to the commencement of construction. The contractor shall perform test pits in the presence of the Construction Engineer. The contractor shall relocate and/or relay electric, water and gas mains and services where necessary. The contractor shall be responsible for the repair of any damage caused by his operations. He shall notify the respective utility company for location markout prior to any excavation and the performance of the above mentioned test pits.
- The contractor is required to perform the proper notification of New Jersey One- Call Center (formerly the Garden State Underground Plant Location Service) prior to excavation for the purpose of identifying the location of underground facilities. This requirement is in accordance with the Underground Facilities Protection Act (P.L. 1994 c. 118). Any and all utilities not subscribing to the New Jersey One- Call Center shall be contacted individually. No work shall commence without proper notifications and verification of all markouts being performed.
- All utility contractors shall procure all required permits, licenses and inspections, pay all charges and give notices necessary for all incidentals to the due and lawful prosecution of the project.
- The contractor shall be responsible for properly backfilling and compacting all trenches. No trenches shall be left open after construction hours for the day. All construction areas are to be kept in a condition that allows for safe movement of all vehicular and pedestrian traffic.
- All areas adjacent to newly installed concrete curbing, sidewalk, etc. shall be backfilled to finished grade prior to the end of the day to eliminate any potential hazards.
- All areas of disturbance shall be graded so as to eliminate any mounds and/or depressions prior to the end of each day to eliminate any potential hazards.
- Barricades, lighting devices and other traffic control devices shall be placed in accordance with and shall conform to Section 110, New Jersey Department of Transportation Traffic Control Standard Specifications for Road and Bridge Construction, Part 6 of the M.U.T.C.D. and Work Zone Traffic Control (US Department of Transportation).
- Traffic/ pedestrian control devices and equipment shall be placed in accordance with all applicable Federal, State, County and Municipal regulations.
- All concrete curb and sidewalk designated for removal, shall be taken from the nearest joint, as necessary, to install proposed improvements.
- Where no joints exist on concrete drives or sidewalk, the edge shall be sawcut along straight lines before excavation or paving.
- Where the proposed paving meets the existing paving, the edge shall be cut vertically with a sharp tool, along straight lines. Once completed, the joint shall be properly sealed.
- The contractor shall be responsible for the construction stakeout of the project.
- Inspections or failures to inspect any materials or workmanship by Municipal or County Officials shall in no way relieve the contractor of his responsibilities to perform the work in accordance with applicable plans, specifications and laws.
- A trash dumpster shall be provided on site during entire period of construction.
- Contractor shall be responsible to remove any & all items on-site (above and underground) or relocate any & all items on-site to allow for the construction of the proposed site improvements shown on these plans. Any omissions of existing items on this plan shall not relieve the contractor from his responsibility to remove/relocate said items. Contractor must field visit site to familiarize themselves with project and verify all demolitions responsibilities.
- All improvements must comply and be constructed in accordance with all applicable codes of the Municipality Planning Department, County Planning Department and all other applicable State, County and local agencies.
- All concrete shall be class 'B'.
- The contractor shall be required to coordinate his work with any and all utility companies in order to eliminate any conflicts and/or delays. No compensation will be made for any delays due to coordination difficulties.
- The General Contractor is Designated as the "Responsible Person in Charge of Construction" and the site supervisor responsible for construction site safety during the course of site improvements pursuant to N.J.A.C. 5: 23-2.21 (c) and (d) of the N.J. Uniform Construction Code.
- Although it is not required by any outside agency governing plan review, it is recommended that steel ballards filled with concrete be placed in front of all parking spaces that abut buildings and structures.
- All site improvements shall comply with the applicable Federal, State, County and Township/Borough rules and regulations, regarding the provisions for disabled persons.
- Fueling area shall comply with all applicable State rules and regulations, regarding fuel dispensing and equipment.



U.S.G.S. Map
scale: 1 inch = 2,000 feet
Taken from U.S.G.S. MAPS

Utility Companies:

Electric	Atlantic City Electric 5100 Harding Highway Mays Landing, NJ 08330 Contact Person - Mr. Joseph Riding
Telephone	Verizon 10 Tansboro Road Berlin, NJ 08009 Contact person: Mr. Douglas Webb - (856) 753-0984
Gas	Public Service Electric and Gas 80 Park Plaza Newark NJ 07102 Contact Number: 866-728-7920
Gas	South Jersey Gas One South Jersey Plaza, Route 54 Folsom NJ 08037 Contact Number: 856-561-9000
Water	Berlin Borough Water Department 59 S. White Horse Pike Berlin, NJ 08009 Contact person: Mr. John Alsebrook, Operator - (856) 767-7777
Sewer	Berlin Township Sewer Department 135 Route 73 South W. Berlin, NJ 08091 Contact person: Mr. Charles J. Riebel Jr., Director - (856) 767-5052
C.C.M.U.A.	Camden County Municipal Utility Authority 1645 Ferry Ave. Camden, NJ 08104 Contact person: Mr. Andy Kricun - (856) 541-3700
Cable	Comcast Cable Communications Inc. 1250 Haddonfield - Berlin Road PO Box 5025 Cherry Hill, NJ 08034
Public Works	Berlin Township Public Works Department 135 Route 73 South W. Berlin, NJ 08091 Contact person: Mr. Charles J. Riebel Jr., Director - (856) 767-5052

Index of Sheets

Sheet Number	Sheet Title
1	Cover Sheet
2	Site Plan
3	Grading Plan
4	Utility, Lighting and Landscaping Plan
5	Soil Erosion and Sediment Control Plan
6	Details
7	Details

Signatures:

This plan is hereby approved by the Township of Berlin Planning/Zoning Board.

PLANNING BOARD CHAIRMAN _____ DATE _____

PLANNING BOARD ENGINEER _____ DATE _____

PLANNING BOARD SECRETARY _____ DATE _____

PLANNING BOARD CHAIRMAN _____ DATE _____

PLANNING BOARD SECRETARY _____ DATE _____

General Notes:

- OWNER/APPLICANT: JMA LANDSCAPING, INC.
145 CROWFOOT ROAD
WEST BERLIN, NJ 08091
- PROPERTY ADDRESS: 145 CROWFOOT ROAD
- PARCEL: BLOCK 2103 - LOT 14
- AREA: 332,371 S.F. ± / 7.63 ACRES ±
- ZONING: I-1: LIGHT INDUSTRIAL
- EXISTING USE: LANDSCAPING BUSINESS YARD WITH OFFICE BUILDING AND HISTORICAL BUILDING FOUNDATION (TO REMAIN)
- PROPOSED IMPROVEMENTS: CONSTRUCTION OF POLE BARN FOR EQUIPMENT STORAGE AND ABOVE GROUND STORAGE FOR DIESEL AND GAS

BUILDING REGULATIONS	REQUIREMENT	PROPOSED	VARIANCE
MINIMUM LOT AREA	20,000 S.F.	332,371 S.F. ± / 7.63 AC. ±	NO
MINIMUM LOT WIDTH	100'	447.71'	NO
MINIMUM LOT FRONTAGE	238'	346.05'	NO
MINIMUM LOT DEPTH	150'	743.41'	NO
MINIMUM FRONT YARD	40'	51'	NO
MINIMUM SIDE YARD	15'	40'	NO
MINIMUM REAR YARD	25'	370.45'	NO
MAXIMUM BLDG. HEIGHT	50'	<50'	NO
MAXIMUM BUILDING COVERAGE	40%	3.8%	NO

- PARKING REQUIREMENTS:
REQUIRED:
 - ONE SPACE PER 250 SQUARE FEET OF GROSS FLOOR AREA
 - 2,500 S.F./250 S.F. = 10 PARKING SPACES**CONSTRUCTED IN 2019:**
 - 6-10' X 18' PARKING SPACES, 3-9' X 18' PARKING SPACES AND 1-8' X 18' HANDICAP PARKING SPACE

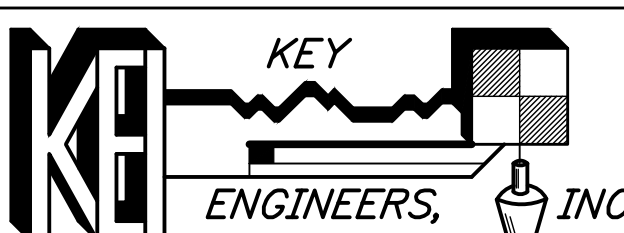
- SIGNAGE:
CERIMTAL:
 - FLACADE - ONE-WALL SIGN ON EACH SIDE OF THE BUILDING WHICH FACES AN APPROVED PUBLIC STREET, PROVIDED THAT THE SIGN AREA DOES NOT EXCEED 10% OF THE BUILDING FACADE AREA OR 64 SQUARE FEET (OUTSIDE OF THE CENTRAL BUSINESS DISTRICT)
 - FREESTANDING - MAY NOT EXCEED 64 SQUARE FEET ON ANY ONE SIDE OUTSIDE OF THE CENTRAL BUSINESS DISTRICT. THE BASE SHALL BE SUPPORTED BY AN APPROPRIATE FOUNDATION AND FOOTING AND SHALL BE A MINIMUM OF AT LEAST 15 FEET FROM THE CURB LINE OR 5 FEET FROM THE EXISTING OR PROPOSED RIGHT-OF-WAY LINE, WHICHEVER IS MORE AND OUTSIDE OF THE CLEAR SITE TRIANGLES.**PROPOSED:**
 - NO SIGNAGE PROPOSED AT THIS TIME.

- LOADING AREA REQUIREMENTS:
REQUIRED:
 - ONE LOADING AND DELIVERY AREA NOT LESS THEN 14 FEET IN WIDTH , 55 FEET IN LENGTH AND 14 FEET IN HEIGHT FOR ANY USE OF 25,000 SQUARE FEET OR LESS, PLUS ONE ADDITIONAL LOADING AND DELIVERY AREA HAVING THE DIMENSIONS LISTED IN THIS SUBSECTION FOR EACH ADDITIONAL 50,000 SQUARE FEET OR FRACTION THEREOF.**PROVIDED:**
 - VARIANCE GRANTED IN RESOLUTION 2018-13 TO OMIT A DELINEATED LOADING AREA.

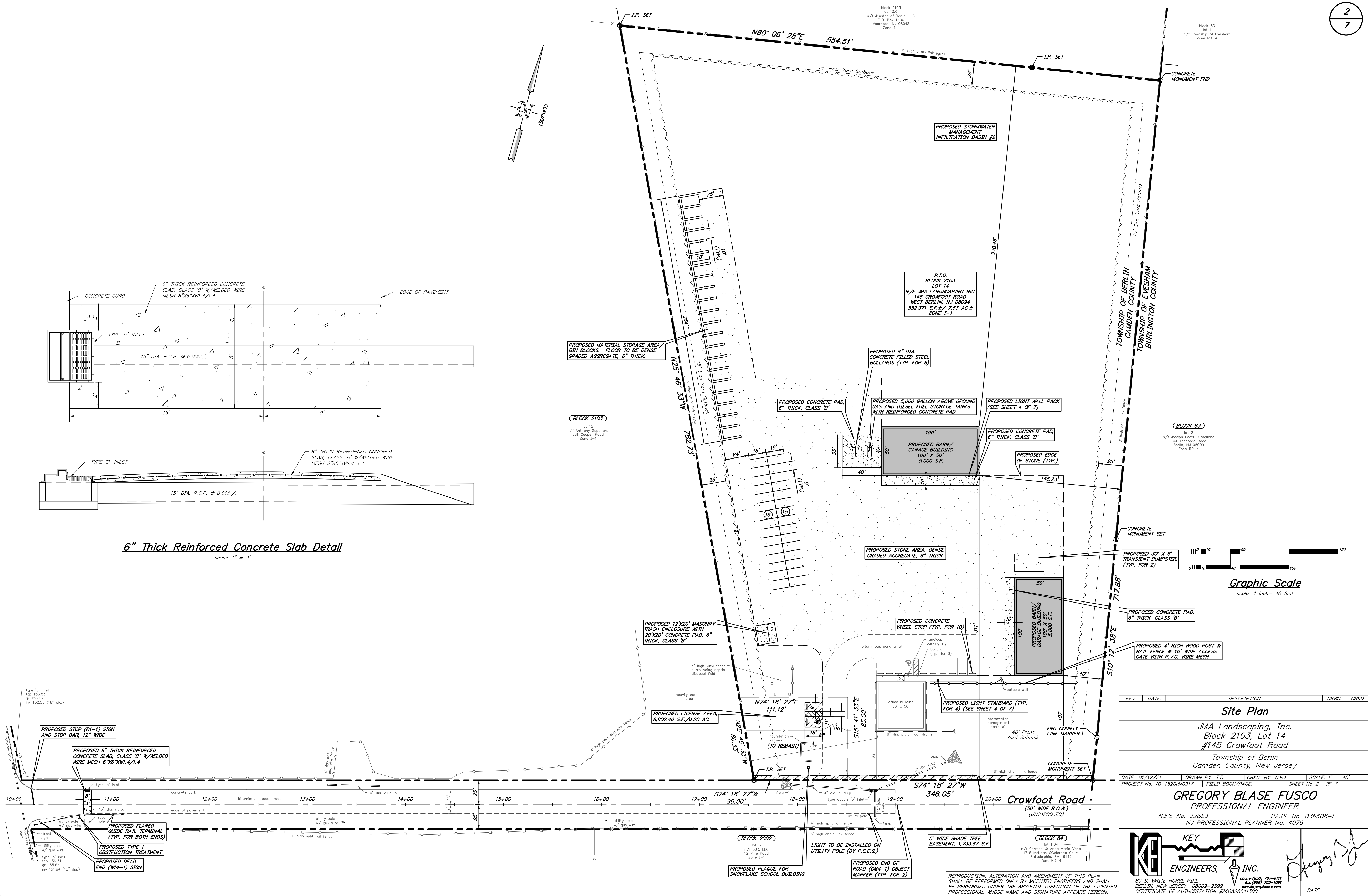
- LANDSCAPE BUFFER REQUIREMENT:
REQUIRED:
 - A SOLID AND CONTINUOUS LANDSCAPE SCREEN SHALL BE PLANTED AND MAINTAINED. SAID LANDSCAPING SHALL CONSIST OF MASSES EVERGREEN OR A COMBINATION OF EVERGREEN AND DECIDUOUS TREES IN TWO ROWS OF AT LEAST 6 FEET IN HEIGHT, SO AS TO CONTINUALLY RESTRICT A CLEAR VIEW BEYOND SAID BUFFER STRIP.**PROVIDED:**
 - VARIANCE GRANTED IN RESOLUTION 2018-13 TO PERMIT EXISTING TREES TO ACT AS SCREENING.

13. VARIANCES AND WAIVERS GRANTED IN RESOLUTION 2018-13:

- VARIANCE FROM CHAPTER 340, ARTICLE XVI, SECTION 94 B. (2) TO OMIT A DELINEATED LOADING AREA WHERE ONE IS REQUIRED.
- VARIANCE FROM CHAPTER 340, ARTICLE XV, SECTION 92 TO PERMIT THE EXISTING TREES TO ACT AS SCREENING.
- VARIANCE FROM CHAPTER 340, ARTICLE X, SECTION 200-6 E. (21) TO PERMIT L.E.D. SITE LIGHTING WHERE IT IS PROHIBITED.
- VARIANCE TO PERMIT ON-SITE STORAGE OF MATERIAL.
- VARIANCE CHAPTER 340, ARTICLE IV, SECTION 9 TO PERMIT ROAD PAVING ONLY IN THE AREA OF THE LOT FRONTAGE OF CROWFOOT ROAD.
- WALVER FROM CHAPTER XII, SECTION 107 A. TO OMIT CONSTRUCTING SIDEWALK ALONG THE SITE FRONTAGE.
- WALVER FROM PROVIDING LANDSCAPING.
- WALVER TO PROVIDE A DENSE GRADED AGGREGATE SURFACE FOR THE YARD AREA.
- WALVER TO OMIT SITE LIGHTING IN DESIGNATED AREA PROPOSED AS NON-ILLUMINATED, WITH MOTION DETECTORS IN ALL BUILDING AND FUEL DISPENSING AREAS.
- WALVER TO ELIMINATE THE CONSTRUCTION OF A RADIUS TURN CUL-DE-SAC AT THE END OF THE STREET.
- ALL BLOCK & LOT NUMBERS REFER TO THE OFFICIAL TAX ASSESSMENT MAP FOR THE TOWNSHIPS OF BERLIN AND EVESHAM.
- BLOCK 2103, LOTS 14 & 15, BLOCK 2104, LOT 1 AND BLOCK 2105, LOT 1 WERE CONSOLIDATED BY FILING OF DEED 02/06/19, RECORDED IN DEED BOOK 11065, PAGE 1446.
- OUTBOUNDS INFORMATION OBTAINED FROM A "PLAN OF SURVEY AND TOPOGRAPHY" PREPARED BY STOUT & CALDWELL ENGINEERS, LLC, REVISION No. 1 DATED JULY 31, 2017.

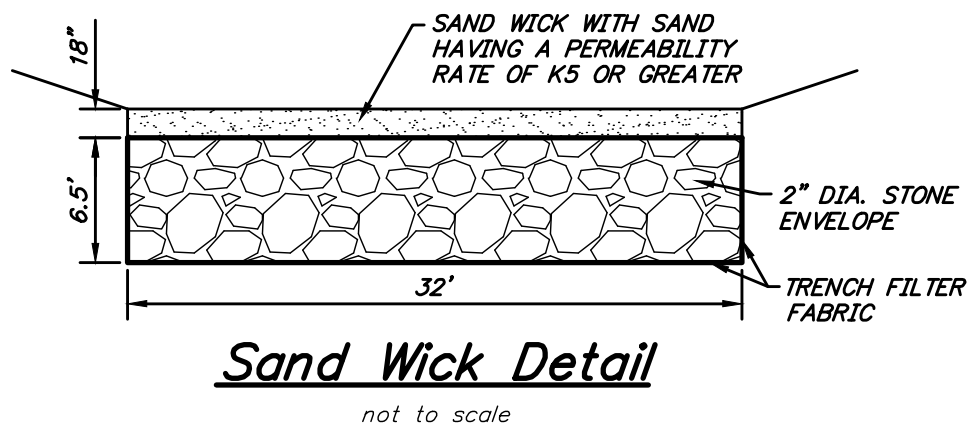
REV.	DATE:	DESCRIPTION	DRWN.	CHKD.
Cover Sheet				
JMA Landscaping, Inc. Block 2103, Lot 14 #145 Crowfoot Road				
Township of Berlin Camden County, New Jersey				
DATE: 01/12/21	DRAWN BY: J.D.	CHKD. BY: G.B.F.	SCALE: AS NOTED	
PROJECT No. 10-1520.M0917		FIELD BOOK/PAGE:		SHEET No. 1 OF 7
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER				
NJPE No. 32853 PA.PE No. 036608-E NJ PROFESSIONAL PLANNER No. 4076				
				
80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #24GA28041300				
phone: (856) 767-6111 fax: (856) 763-1091 www.jmaengineers.com				
DATE _____				

REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN SHALL BE PERFORMED ONLY BY MODUTECH ENGINEERS AND SHALL BE PERFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.



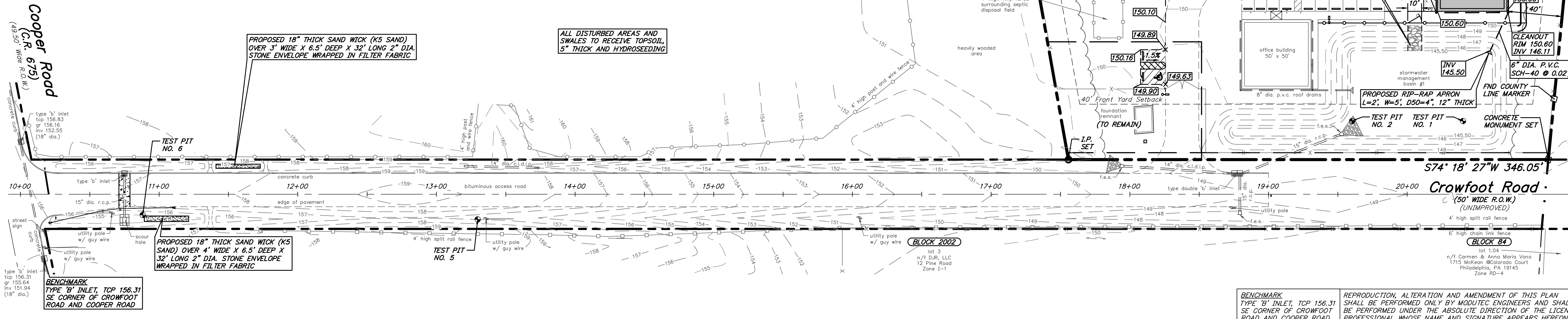
Grading/ Construction Notes

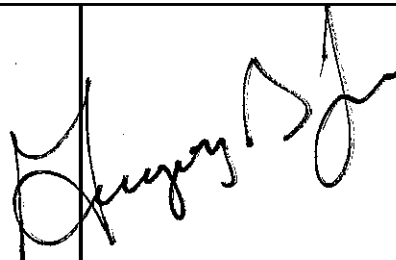
- PROPOSED SPOT GRADE ELEVATION: 149.25
EXISTING CONTOUR LINE: -181
PROPOSED CONTOUR LINE: -176
- BENCHMARK: TYPE 'B' INLET, TOP 156.31
SE CORNER OF CROWFOOT
ROAD AND COOPER ROAD
- THE PROPOSED PAVING CROSS SECTIONS FOR THIS PROJECT SHALL CONSIST OF THE FOLLOWING:
2" TH. HOT MIX ASPHALT, 9.5M64, SURFACE COURSE OVER
3" TH. HOT MIX ASPHALT, 19M64, BASE COURSE OVER
4" TH. DENSE GRADED AGGREGATE SUBBASE
- ALL MATERIALS AND INSTALLATION SHALL COMPLY WITH THE NEW JERSEY STATE HIGHWAY
DEPARTMENT SPECIFICATIONS, 2007 AS AMENDED.
- WHERE SUBGRADE CONDITIONS ARE WET, SPRINGY OR OF SUCH NATURE THAT SURFACING
WOULD BE INADVISABLE WITHOUT TREATING THE SUBGRADE, THE MUNICIPAL ENGINEER SHALL
HAVE THE RIGHT TO REQUEST ADDITIONAL EXCAVATION AND THE INSTALLATION OF A SUITABLE
SUBBASE SUCH AS DENSE GRADED AGGREGATE OR RECYCLED CONCRETE.
- ALL PROPOSED CURBING SHALL BE 6"x8"x18", CLASS 'B' CONCRETE CURB, 6" FACE, 9"x18", CLASS
'B' CONCRETE CURB, 6" FACE, SHALL BE CONSTRUCTED IN THE COUNTY RIGHT-OF-WAY.
- ALL PROPOSED CONCRETE SHALL BE CLASS 'B'.
- ALL CONSTRUCTION MATERIALS, RESTORATION AND METHODS OF INSTALLATION WITHIN THE
MUNICIPALITY, COUNTY OR STATE RIGHT-OF-WAY SHALL BE SUBJECT TO THE REQUIREMENTS AND
APPROVAL OF THAT RESPECTIVE JURISDICTION.
- THE CONTRACTOR SHALL PROCURE ALL REQUIRED PERMITS, LICENSES AND INSPECTIONS, PAY
ALL CHARGES AND FEES AND GIVE NOTICES NECESSARY FOR ALL INCIDENTALS TO THE DUE
AND LAWFUL PROSECUTION OF THE PROJECT.
- THE LOCATION OF ALL EXISTING UTILITY LINES, MAINS, SERVICES, APPURTENANCES MUST BE
VERIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE
CONTRACTOR SHALL PERFORM TEST PITS IN THE PRESENCE OF THE CONSTRUCTION ENGINEER.
THE CONTRACTOR SHALL RELOCATE AND/OR RELAY ELECTRIC, WATER AND GAS MAINS AND
SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF
ANY DAMAGE CAUSED BY HIS OPERATIONS. HE SHALL NOTIFY THE RESPECTIVE UTILITY COMPANY
FOR LOCATION MARKOUT PRIOR TO ANY EXCAVATION AND THE PERFORMANCE OF THE ABOVE
MENTIONED TEST PITS.
- THE CONTRACTOR IS REQUIRED TO PERFORM THE PROPER NOTIFICATION OF NEW JERSEY ONE- CALL
CENTER (FORMERLY THE GARDEN STATE UNDERGROUND PLANT LOCATION SERVICE) PRIOR TO
EXCAVATION FOR THE PURPOSE OF IDENTIFYING THE LOCATION OF UNDERGROUND FACILITIES.
THIS REQUIREMENT IS IN ACCORDANCE WITH THE UNDERGROUND FACILITIES PROTECTION ACT
(P.L. 1994 C. 118). ANY AND ALL UTILITIES NOT SUBSCRIBING TO THE NEW JERSEY ONE- CALL
CENTER SHALL BE CONTACTED INDIVIDUALLY. NO WORK SHALL COMMENCE WITHOUT PROPER
NOTIFICATIONS AND VERIFICATION OF ALL MARKOUTS BEING PERFORMED.
- NO MATERIALS SHALL BE PLACED OR ANY DISTURBANCE PERMITTED BEYOND THE PROJECT
PROPERTY LINE OR RIGHT-OF-WAY WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY
OWNER DIRECTLY INVOLVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING, GRADING, RESTORING, PAVING
TOPSOILING, FERTILIZING AND SEEDING THE AREAS DISTURBED BY HIS ACTIVITIES.
- INSPECTIONS OR FAILURES TO INSPECT ANY MATERIALS OR WORKMANSHIP BY MUNICIPAL OR
COUNTY OFFICIALS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO
PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PLANS, SPECIFICATIONS AND LAWS.
- CONTRACTOR SHALL BE REQUIRED TO STRIP ALL TOPSOIL FROM PROPOSED DISTURBED AREAS
PRIOR TO THE START OF SITE GRADING. STOCKPILING TOPSOIL SHALL BE UTILIZED FOR THE
LANDSCAPING AND BASIN AREAS. ALL EXCESS TOPSOIL SHALL REMAIN THE PROPERTY OF
THE DEVELOPER.
- STORMWATER RUNOFF FROM ALL ROOF DRAINS MUST BE DIVERTED OR COLLECTED SO THAT THE
STORMWATER WILL NOT DISCHARGE ON TO ANY PARKING OR WALKWAY PAVEMENT SURFACE,
IN ORDER TO ELIMINATE ICING HAZARDS. NO INCREASE IN SURFACE RUNOFF CAN BE DIRECTED TO
ADJOINING PROPERTIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION STAKEOUT OF THIS PROJECT.
- BARRICADES, LIGHTING DEVICES AND OTHER TRAFFIC CONTROL DEVICES SHALL BE PLACED IN
ACCORDANCE WITH AND SHALL CONFORM TO SECTION 110, NEW JERSEY DEPARTMENT OF
TRANSPORTATION TRAFFIC CONTROL STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION,
PART 6 OF THE M.U.T.C.D. AND WORK ZONE TRAFFIC CONTROL (US DEPARTMENT OF TRANSPORTATION).
- TRAFFIC/ PEDESTRIAN CONTROL DEVICES AND EQUIPMENT SHALL BE PLACED IN ACCORDANCE
WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND MUNICIPAL REGULATIONS.
- A TRASH DUMPSTER SHALL BE PROVIDED ON SITE DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- ALL SIDEWALK REMOVAL SHALL BE TAKEN FROM THE NEAREST JOINT AS NECESSARY
TO INSTALL PROPOSED IMPROVEMENTS.
- POST-DEVELOPMENT PERCOLATION TESTS SHALL BE PERFORMED IN THE BOTTOM OF THE
BASIN. THE LOCATION SHALL BE DETERMINED BY THE MUNICIPAL ENGINEER AND TEST
RESULTS PROVIDED TO THE MUNICIPAL ENGINEER FOR REVIEW.
- ALL STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH N.J.D.O.T. STANDARD
SPECIFICATIONS, 2007. ALL INLETS SHALL HAVE BICYCLE SAFE INLET GRATES.
- EACH EXTERIOR PIPE JOINT SHALL BE WRAPPED WITH A 2" WIDE STRIP OF MIRAFIL 140N
FILTER FABRIC OR EQUIVALENT OR THE CONTRACTOR HAS THE OPTION TO UTILIZE "O" RING
GASKETED PIPE IN LIEU OF FILTER FABRIC.
- THE GRADING AND FINISHED FLOOR ELEVATIONS DEPICTED ON THIS PLAN ARE FOR GENERAL GRADING
PURPOSES ONLY AND ARE SUBJECT TO CHANGE BASED ON THE ACTUAL ARCHITECTURAL PLANS. THE
DEVELOPER WILL BE RESPONSIBLE FOR SUBMITTING INDIVIDUAL GRADING PLANS PREPARED BY AN
ENGINEER FOR EACH LOT OR A LETTER FROM AN ENGINEER CERTIFYING THAT THE GRADING AND
FINISHED FLOOR HOUSE ELEVATIONS FOR THE PARTICULAR LOT WILL BE IN SUBSTANTIAL
CONFORMANCE WITH THE APPROVED OVERALL GRADING PLAN FOR THE SUBDIVISION. PRIOR TO
RECEIVING A BUILDING PERMIT, THE INDIVIDUAL GRADING PLAN, WHICH MUST INCLUDE CONTOURS, A
FINISHED FLOOR ELEVATION, AND A REFERENCE ELEVATION IN THE CONSTRUCTED ROADWAY, WILL
HAVE TO BE REVIEWED AND APPROVED BY THE MUNICIPAL ENGINEER. PRIOR TO OCCUPANCY PERMIT
ISSUANCE, THE DEVELOPER'S ENGINEER WILL BE REQUIRED TO CERTIFY THAT THE GRADING IS IN
CONFORMANCE WITH THE APPROVED PLANS.
- IT IS RECOMMENDED (BUT NOT REQUIRED BY ANY CONSTRUCTION OR MUNICIPAL CODE) TO
CONSTRUCT 6" DIAMETER CONCRETE FILLED STEEL BOLLARDS AROUND THE PROPOSED BUILDING TO
PROTECT THE STRUCTURE. IF IT IS RECOMMENDED THE BOLLARDS ARE PLACED 1
FOOT BEHIND THE FACE OF CURB IN FRONT OF EACH INDIVIDUAL PARKING SPACE.



PROPOSED 18" THICK SAND WICK (K5 SAND)
OVER 3" WIDE X 6.5' DEEP X 32' LONG 2" DIA.
STONE ENVELOPE WRAPPED IN FILTER FABRIC

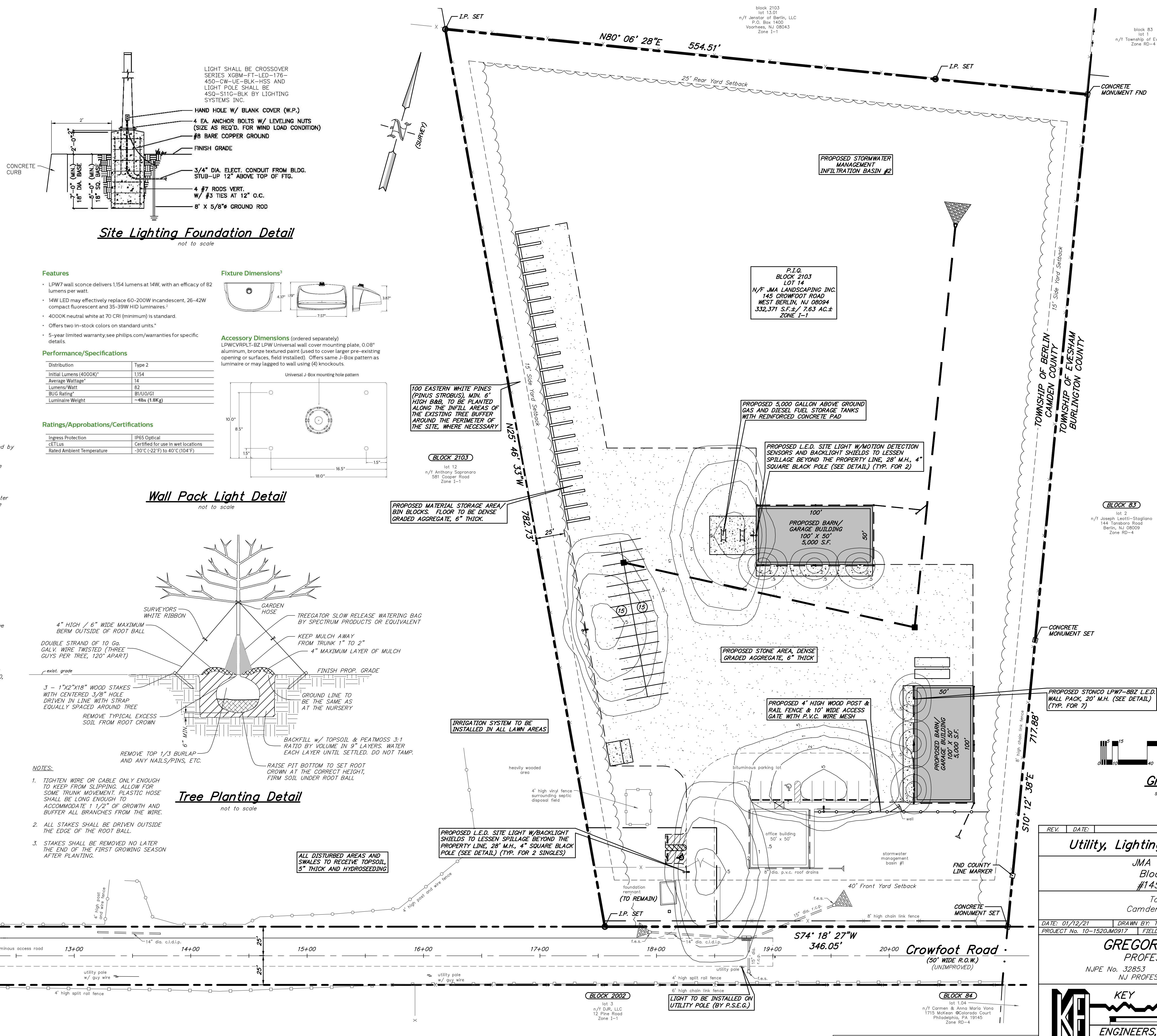
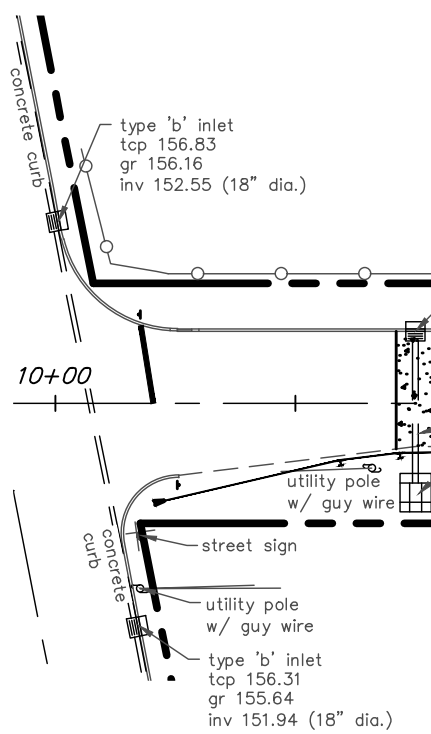
ALL DISTURBED AREAS AND
SWALES TO RECEIVE TOPSOIL
5" THICK AND HYDROSEEDING





REV.	DATE:	DESCRIPTION	DRWN.	CHKD.
<div>Grading Plan</div> <div>JMA Landscaping, Inc. Block 2103, Lot 14 #145 Crowfoot Road</div> <div>Township of Berlin Camden County, New Jersey</div>				
DATE: 2/11/2021	DRAWN BY: T.D./S.S.	CHKD. BY: G.B.F.	SCALE: 1" = 40'	
PROJECT No. 10-1520.M0917	FIELD BOOK/PAGE:		SHEET No. 3 of 7	
<div>GREGORY BLASE FUSCO</div> <div>PROFESSIONAL ENGINEER</div> <div>NJPE No. 32853PA.PE No. 036608-E</div> <div>NJ PROFESSIONAL PLANNER No. 4076</div>				
<div><div><div>KEY</div><div>ENGINEERS, INC.</div><div>80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #246A28041300</div><div>phone: (856) 767-6111 fax: (856) 763-1091 www.jmaengineers.com</div></div><div></div></div>				
				DATE _____

- 1. The Contractor shall obtain all applicable permits.*
- 2. The Applicant/Owner is aware and agrees that the review by the Township Engineer is based upon the best information available and in no way does it guarantee the location of main, and/or appurtenances. It is the responsibility of the Applicant/Owner to verify the location of such mains/apurtenances.*
- 3. The location and depths of existing utilities must be verified in the field by the contractor prior to construction.*
- 4. The contractor shall be responsible for notifying all utility companies of proposed excavation in the vicinity of said utilities prior to construction.*
- 5. The contractor shall notify the electric company/ telephone company in advance of construction for temporary support of utility poles. As may be necessary.*
- 6. The contractor is responsible to provide proper traffic control to the satisfaction of Local, County, and State Authorities.*
- 7. No material shall be placed or disturbed beyond the property line or right-of-way without written permission of the property owner directly involved.*
- 8. The contractor shall be responsible for restoring paving, planings, etc. in kind and topsoiling, fertilizing and seeding all areas disturbed by his activities. Road pavement replacement and all restoration in all disturbed areas shall meet the requirements of that jurisdiction.*
- 9. Whenever the trench bottom does not afford sufficient bearing strength to sustain the weight of the pipe and superimposed loads, the trench bottom shall be over excavated and stabilized with six (6) inch minimum thick layers of crushed stone as directed by the engineer.*
- 10. All trenches will be backfilled by compaction in six (6) inch minimum thick layers in strict accordance with the trench details and specifications.*
- 11. The construction site must be swept and cleaned daily with no trenches open overnight.*
- 12. All general construction, materials, testing, and methods of installation shall be subject to the approval of the Township Engineer.*
- 13. The contractor shall comply with all standards set forth in the AWWA & NJDEP Regulations in regard to inspection & testing.*
- 14. Inspection of, or failure to inspect any materials or workmanship by the Engineer for the Utility Authority shall in no way relieve the contractor of the responsibility to perform the work in accordance with the approved plans, specifications and applicable laws.*
- 15. All sanitary sewer laterals shall be polyvinyl chloride pipe (P.V.C.) meeting ASTM 03034 SDR 26-35. Locations and slopes of the laterals and appurtenances shall be constructed in accordance with the approved plans and specifications.*
- 16. Sanitary sewer laterals shall conform to standard installation requirements and may not be connected directly into manholes.*
- 17. All service laterals shall be 6" dia. P.V.C. and connected to the main with an 8"dia. x 6" dia. y-branch and end with a double sweep tee cleanout riser. Minimum grade of service laterals shall be 0.0104'/(, 6") & 0.0208'/(, 4").*
- 18. Existing sewer service shall be cut and capped as required by the appropriate authority.*
- 19. The location of all existing utility lines, mains, services, and appurtenances must be verified by the contractor prior to the commencement of construction. The contractor shall perform test pits in the presence of the Project Engineer. The contractor shall relocate and/or replace electric, water and gas mains and services where necessary. The contractor shall be responsible for the repair of any damage caused by his operations. He shall notify the respective utility company for location markout prior to any excavation and the performance of the above mentioned test pits.*
- 20. The contractor is required to perform the proper notification of New Jersey One-call Center (formerly the Garden State Underground Plant Location Service) prior to excavation for the purpose of identifying the location of underground facilities. This requirement is in accordance with the Underground Facilities Protection Act (P.L. 1994 c. 118). Any and all utility not subscribing to the New Jersey One-Call Center shall be contacted individually. No work shall commence without proper notifications and verification of all markouts being performed.*
- 21. All utility contractors shall procure all required permits, licenses and inspections, pay all charges and give notices necessary for all incidents to the due and lawful prosecution of the project.*
- 22. Inspections or failures to inspect any materials or workmanship by Municipal, County, or State Officials shall in no way relieve the contractor of his responsibilities to perform the work in accordance with applicable codes, specifications and laws.*
- 23. All materials and installation shall comply with the New Jersey State Highway Department Specifications, 2007 as amended.*
- 24. All construction materials, restoration and methods of installation within the Municipality or State right-of-way shall be subject to the requirements and approval of that respective jurisdiction.*
- 25. The contractor shall procure all required permits, licenses and inspections, pay all charges and fees and give notices necessary of all incidents to the due and lawful prosecution of the project.*
- 26. During all construction within existing right-of-ways, barricades, lighting devices and other traffic control devices shall be placed in accordance with and shall conform to Section 110, New Jersey Department of Transportation Traffic Control Standard Specifications for Road and Bridge Construction, Part 6 of the M.U.T.C.D. and Work Zone Traffic Control (US Department of Transportation).*
- 27. Traffic/pedestrian control devices and equipment shall be placed in accordance with all applicable Federal, State, County and Municipality regulations.*
- 28. All proposed utilities to be underground.*
- 29. The proposed well and water service shall be designed and installed by a licensed well driller in accordance with all applicable regulations.*

1. All electric, telephone and similar service facility installations shall be installed underground in accordance with the requirements and tariffs of the servicing organization.



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KEY
KA 
ENGINEERS, INC. 
60 S. WHITE HORSE PIKE
BERLIN, NEW JERSEY 08009-2399
phone: (609) 767-6111
fax: (609) 763-1091
www.kaeengineers.com
CERTIFICATE OF AUTHORIZATION #240A28041300
DATE _____

Soil Erosion & Sediment Control Notes

1. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
3. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
4. THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
5. ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE NEW JERSEY STANDARDS AND THEIR RATES SHOULD BE INCLUDED IN THE NARRATIVE. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR OTHER EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
6. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION AND RATES OF APPLICATION AT THE REQUEST OF THE TOWNSHIP ENGINEER AND THE DISTRICT OF SOIL CONSERVATION.
7. ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NEW JERSEY STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
8. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
9. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
10. A CRUSHED STONE TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE RIP RAP PAD MUST BE 100 FEET IN LENGTH AND THE STONE MUST BE 1.5" - 4" IN SIZE, PLACED 12" THICK AND THE FULL WIDTH OF THE ENTRANCE. IT SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC FILTER FABRIC AND MAINTAINED. THE STRUCTURE MUST BE DELINEATED AND DETAILED ON THE PLANS.
11. PAVED AREAS MUST BE KEPT CLEAN AT ALL TIMES.
12. ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN.
13. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
14. ALL DOWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTRATION DEVICE. THE SEDIMENT FILTER MUST BE PLACED SO AS NOT TO CAUSE EROSION OF THE DOWNSTREAM AREA. FIELD PLACEMENT AND USE OF THE STRUCTURE MUST BE APPROVED BY THE DISTRICT EROSION CONTROL INSPECTOR PRIOR TO COMMENCEMENT OF DOWATERING ACTIVITIES. (SEE DETAIL.) THE BASIN MUST BE DOWATERED TO NORMAL POOL WITHIN 10 DAYS OF THE DESIGN STORM.
15. N.J.S.A. 4:24-39, E.T.S.D., REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE AS A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
16. MULCHING IS REQUIRED BY THE DISTRICT OF SOIL CONSERVATION ON ALL SEEDED AREAS TO INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATION COVER.
17. OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
18. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
19. THE TOWNSHIP ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY LAND DISTURBANCE.
20. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.
21. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO THE STANDARD FOR TEMPORARY VEGETATIVE COVER. STABILIZE TOPSOIL STOCKPILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING. ALL SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOOD PLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH A SEDIMENT BARRIER.
22. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE TOWNSHIP ENGINEER AND THE DISTRICT OF SOIL CONSERVATION. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
23. SOIL HAVING A pH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE MUST BE COVERED WITH A MINIMUM OF 12" OF SOIL HAVING A pH OF 5.0 OR MORE BEFORE SEEDING PREPARATION.
24. STABILIZATION SPECIFICATIONS:
 - TEMPORARY SEEDING AND MULCHING: LIME - 90 LBS./1,000 SF GROUND LIMESTONE; FERTILIZER - 14 LBS./1,000 SF; 10-20-10 OR EQUIVALENT WORKED INTO SOIL A MINIMUM OF 4".
 - SEED - PERENNIAL RYEGRASS 40 LBS./ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
 - MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS./1,000 SF; TO BE APPLIED ACCORDING TO THE N.J. STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).PERMANENT SEEDING SHALL BE PERFORMED WITH TALL FESCUE, 3.7 LBS. PER 1000 SF; KENTUCKY BLUEGRASS(BLEND), 0.50 LBS. PER 1000 SF; PERENNIAL RYEGRASS (BLEND), 0.50 LBS. PER 1000 SF. MIXTURE APPLICATION RATE SHALL BE A MINIMUM 4.0 LBS./1000 SF TOTAL SEED. IF HYDROSEEDING, THE RATE SHALL BE INCREASED BY 25%. HYDROSEEDING AREAS MUST STILL RECEIVE STRAW MULCH AND TACKIFIER.
- TEMPORARY AND PERMANENT SEEDING MEASURES MUST BE APPLIED ACCORDING TO THE NEW JERSEY STANDARDS AND MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
25. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
26. DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE NEW JERSEY STANDARDS AND MAY INCLUDE WATERING WITH A SOLUTION OF CALCIUM CHLORIDE AND WATER.
27. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
28. USE STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
29. ALL VEGETATIVE MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF THE NURSERMAN AND IN ACCORDANCE WITH THE NEW JERSEY STANDARDS.
30. NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPE PLAN.
31. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.
32. STABILIZATION WITH MULCH ONLY - WHEN SEASONS AND OTHER CONDITIONS ARE NOT SUITABLE FOR GROWING AN EROSION-RESISTANT COVER (NOVEMBER 1ST THROUGH APRIL 1ST, AND MAY 1ST THROUGH AUGUST 15TH) ALL EXPOSED AREAS WILL BE STABILIZED WITH MULCH, SALT HAY, OR STRAW AND WILL BE APPLIED AT A RATE OF 80#/2,000 SF AND ANCHORED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. STABILIZATION WITH MULCH WILL COMPLY WITH SECTION 3.31 OF SAID STANDARDS, INCLUDING DETAILS OF ANCHORING MULCH.
33. PERMANENT VEGETATION COVER - AFTER FINAL GRADING IS COMPLETED, A PERMANENT VEGETATIVE COVER WILL BE USED TO STABILIZE THE SOIL. THE AREA WILL BE SEEDING TO 60% CREeping RED FESCUE, 30% KENTUCKY BLUEGRASS, 10% RYEGRASS. APPLIED AT A RATE OF 4#/1,000 SF. FERTILIZER AND LIME WILL BE WORKED INTO THE SOIL TO A DEPTH OF 4" PRIOR TO SEEDING. PERMANENT SEEDING WILL COMPLY WITH SECTION 3.2.1. OF THE SAID STANDARDS. FERTILIZER APPLICATION RATE = 11 LBS./1,000 SF. PULVERIZED DOLOMITIC LIMESTONE APPLICATION RATE = 90 LBS./1,000 SF. BASIN SIDE SLOPE SHALL BE SEEDING WITH 30% TALL FESCUE, 30% SPREADING FESCUE, 30% KENTUCKY BLUEGRASS, 10% RYE GRASS APPLIED AT 4#/1,000 SF. FERTILIZER AND LIME WILL BE WORKED INTO THE SOIL TO A DEPTH OF 4" PRIOR TO SEEDING. FERTILIZER APPLICATION RATE = 11 LBS./1,000 SF. PULVERIZED DOLOMITIC LIMESTONE APPLICATION RATE = 90 LBS./1,000 SF.
34. TEMPORARY VEGETATION COVER - TEMPORARILY STABILIZE THE SOIL AND REDUCE DAMAGE FROM WIND AND WATER EROSION UNTIL PERMANENT STABILIZATION IS ACCOMPLISHED. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER MAY BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SF OF 10-20-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS: 2 TONS PER ACRE OR 90 POUNDS PER 1000 SF. WORK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4" WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE TOOL. INSPECT SEEDING MUST BEFORE SEEDING. IF THE SOIL IS COMPACTED, THE AREA MUST BE RETILLED. THE AREA WILL BE SEEDING WITH 100% ANNUAL RYEGRASS APPLIED AT A RATE OF 1# PER 1000 S.F.
35. ALL GRASS AREAS SHALL RECEIVE TOPSOIL, 5" THICK AND HYDROSEEDING.
36. A CONCRETE WASHOUT AREA SHALL BE DESIGNATED ON THE SITE BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS. THE WASHOUT AREA SHALL BE PROVIDED IN ACCORDANCE WITH THE CONCRETE WASHOUT AREA DETAIL PROVIDED ON THESE PLANS.

DRAWSTRING RUNNING THROUGH FABRIC ALONG TOP OF FENCE

WOOD FENCE POST (SPACING 8'-0" C. TO C.)

FABRIC (3'-0" WIDE)

DIG 6" WIDE & DEEP TRENCH, BURY BOTTOM 1'-0" OF FABRIC, TAMP IN PLACE.

Silt Fence Detail

not to scale

PROPOSED MATERIAL STORAGE AREA/ BIN BLOCKS. FLOOR TO BE DENSE GRADED AGGREGATE, 6" THICK.

PROPOSED TYPE 'E' INLET I-1 OR 147.45 INV 144.46

BLOCK 2103

lot 12
n/f Anthony Sgarano
581 Cooper Road
Zone I-1

BLOCK 2002

lot 3
n/f DUK LLC
12 Pine Road
Zone I-1

block 2103
lot 13.01
n/f JMA Landscaping, Inc.
P.O. Box 1400
Voorhees, NJ 08043
Zone I-1

PROPOSED SILT FENCE AROUND CLEARING AREA

PROPOSED BASIN ACCESS, DENSE GRADED AGGREGATE, 6" THICK

PROPOSED F.E.S. INV 142.00
PROPOSED RIP-RAP APRON W/ FILTER FABRIC
L=18', W=23', D50=6", 12" THICK

TEMPORARY TOPSOIL STOCKPILE AREA

PROPOSED 18" H.D.P.E.P. @ 0.0041' / 346 L.F.

6" DIA. P.V.C. SCH-40 @ 0.015' /

CLEANOUT RIM 150.60 INV 146.21

CLEANOUT RIM 150.60 INV 144.71

6" DIA. P.V.C. SCH-40 @ 0.015' /

CLEANOUT RIM 143.95 INV 144.12

CLEANOUT RIM 150.60 INV 145.49

PROPOSED 18" H.D.P.E.P. @ 0.0041' / 256 L.F.

PROPOSED STONE AREA, DENSE GRADED AGGREGATE, 6" THICK

PROPOSED 20'x50' CONSTRUCTION ENTRANCE

6" DIA. P.V.C. SCH-40 @ 0.02' /

CLEANOUT RIM 150.60 INV 148.15

CLEANOUT RIM 150.60 INV 147.11

6" DIA. P.V.C. SCH-40 @ 0.02' /

CLEANOUT RIM 150.60 INV 146.11

6" DIA. P.V.C. SCH-40 @ 0.02' /

CLEANOUT RIM 150.60 INV 147.11

6" DIA. P.V.C. SCH-40 @ 0.02' /

CLEANOUT RIM 150.60 INV 146.11

6" DIA. P.V.C. SCH-40 @ 0.02' /

CLEANOUT RIM 150.60 INV 147.11

6" DIA. P.V.C. SCH-40 @ 0.02' /

CLEANOUT RIM 150.60 INV 146.11

6" DIA. P.V.C. SCH-40 @ 0.02' /

CLEANOUT RIM 150.60 INV 147.11

6" DIA. P.V.C. SCH-40 @ 0.02' /

CLEANOUT RIM 150.60 INV 146.11

6" DIA. P.V.C. SCH-40 @ 0.02' /

CLEANOUT RIM 150.60 INV 147.11

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PROPOSED SAND WICK, 4' WIDE, TO ELE. 140.50 OR UNTIL SOILS DESCRIBED AS YELLOW-BROWN MEDIUM TO COARSE SAND ARE ENCOUNTERED

Sequence of Construction:

- WEEK 1 - CONSTRUCT SILT FENCING AROUND SITE. CONSTRUCT CONSTRUCTION ENTRANCE.
- WEEK 2 TO 5 - CLEAR AND ROUGH GRADE SITE, EXCAVATE BASIN. CONSTRUCT AND STABILIZE BASIN.
- WEEK 6 TO 8 - INSTALL SAND WICK IN INFILTRATION BASIN #2 AFTER ALL CONSTRUCTION WITHIN THE BASIN'S DISCHARGE AREA IS COMPLETED AND THE DRAINAGE AREA IS STABILIZED.
- WEEK 9 TO 11 - BEGIN FOUNDATION CONSTRUCTION FOR POLE BARN. BEGIN CONSTRUCTION OF LANDSCAPING. CHECK AND MAINTAIN SILT FENCE ON PROJECT.
- WEEK 12 TO 16 - COMPLETE CONSTRUCTION OF POLE BARN. BEGIN INSTALLATION OF LANDSCAPING. CHECK AND MAINTAIN SILT FENCE.
- WEEK 17 TO 18 - REMOVE SILT FENCE. PERFORM POST-CONSTRUCTION PERMEABILITY TESTING.

Legend:

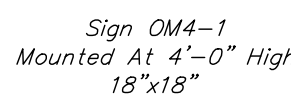
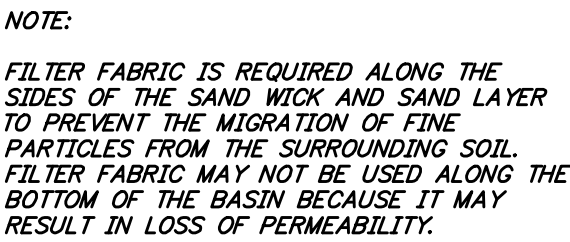
- SF SILT FENCE
- RECOMMENDED SOIL COMPACTION LOCATION
- SOIL COMPACTION TESTING AREAS



Graphic Scale

scale: 1 inch = 40 feet

REV.	DATE:	DESCRIPTION	DRWN.	CHKD.
Soil Erosion and Sediment Control Plan				
JMA Landscaping, Inc. Block 2103, Lot 14 #145 Crowfoot Road				
Township of Berlin Camden County, New Jersey				
DATE: 02/11/21	DRAWN BY: I.D./S.S.	CHKD. BY: G.B.F.	SCALE: 1" = 40'	
PROJECT No. 10-1520.M0917		FIELD BOOK/PAGE:		SHEET No. 5 OF 7
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER NJPE No. 32853 P.A.P.E. No. 036608-E NJ PROFESSIONAL PLANNER No. 4076				
80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 phone: (856) 767-6111 fax: (856) 763-1091 www.ke-engineers.com				
DATE				



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