

MINOR SUBDIVISION, USE VARIANCE, AND PRELIMINARY & FINAL SITE PLANS

FOR

LOT 16 BLOCK 4200
"62 OLD LEDGEWOOD ROAD"

LOT 16.03 BLOCK 4200

"60 OLD LEDGEWOOD ROAD"

LOT 19 BLOCK 4200

"60 OLD LEDGEWOOD ROAD"

LOT 20 BLOCK 4200

"280 OLD LEDGEWOOD ROAD"

SITUATED IN :
THE TOWNSHIP OF MOUNT OLIVE
MORRIS COUNTY, NEW JERSEY

LIST OF PROPERTY OWNERS WITHIN 200 FT. OF LOT 16 BLOCK 4200

BLOCK	LOT	PROPERTY OWNER	BLOCK	LOT	PROPERTY OWNER
4200	16	SPEICHER, MICHAEL W 62 OLD LEDGEWOOD RD FLANDERS, NJ 07836	4200	20	SPEICHER, MICHAEL W 55 NAUGHTRIGHT RD LONG VALLEY, NJ 07853
4200	16.01	TURNER, MICHAEL & GANGEMI, NICOLA 12 BRICH ST RANDOLPH, NJ 07869	4300	1	305 MANHATTAN LIMITED LIABILITY CO 45 LEWIS AVE JERSEY CITY, NJ 07306
4200	16.02	TURNER, MICHAEL & GANGEMI, NICOLA 12 BRICH ST RANDOLPH, NJ 07869	4300	18	BOROUGH OF NETCONG 23 MAPLE AVE NETCONG, NJ 07857
4200	16.03	OLD LEDGEWOOD PROPERTIES LLC 62 OLD LEDGEWOOD RD FLANDERS, NJ 07869	4300	2	305 MANHATTAN LLC 45 LEWIS AVE JERSEY CITY, NJ 07306
4200	19	UNKNOWN			

LIST OF PROPERTY OWNERS WITHIN 200 FT. OF LOT 16.03 BLOCK 4200

BLOCK	LOT	PROPERTY OWNER	BLOCK	LOT	PROPERTY OWNER
4200	16	SPEICHER, MICHAEL W 62 OLD LEDGEWOOD RD FLANDERS, NJ 07836	4200	20	SPEICHER, MICHAEL W 55 NAUGHTRIGHT RD LONG VALLEY, NJ 07853
4200	16.01	TURNER, MICHAEL & GANGEMI, NICOLA 12 BRICH ST RANDOLPH, NJ 07869	4300	1	305 MANHATTAN LIMITED LIABILITY CO 45 LEWIS AVE JERSEY CITY, NJ 07306
4200	16.02	TURNER, MICHAEL & GANGEMI, NICOLA 12 BRICH ST RANDOLPH, NJ 07869	4300	2	305 MANHATTAN LLC 45 LEWIS AVE JERSEY CITY, NJ 07306
4200	16.03	OLD LEDGEWOOD PROPERTIES LLC 62 OLD LEDGEWOOD RD FLANDERS, NJ 07869	4300	3	MOONEY, GEORGE H & GRACE 47 OLD LEDGEWOOD RD FLANDERS, NJ 07836
4200	19	UNKNOWN			

LIST OF PROPERTY OWNERS WITHIN 200 FT. OF LOT 19 BLOCK 4200

BLOCK	LOT	PROPERTY OWNER	BLOCK	LOT	PROPERTY OWNER
4200	16	SPEICHER, MICHAEL W 62 OLD LEDGEWOOD RD FLANDERS, NJ 07836	4200	20	SPEICHER, MICHAEL W 55 NAUGHTRIGHT RD LONG VALLEY, NJ 07853
4200	16.03	OLD LEDGEWOOD PROPERTIES LLC 62 OLD LEDGEWOOD RD FLANDERS, NJ 07869	4300	1	305 MANHATTAN LIMITED LIABILITY CO 45 LEWIS AVE JERSEY CITY, NJ 07306
4200	19	UNKNOWN	4300	18	BOROUGH OF NETCONG 23 MAPLE AVE NETCONG, NJ 07857

LIST OF PROPERTY OWNERS WITHIN 200 FT. OF LOT 20 BLOCK 4200

BLOCK	LOT	PROPERTY OWNER	BLOCK	LOT	PROPERTY OWNER
4200	16	SPEICHER, MICHAEL W 62 OLD LEDGEWOOD RD FLANDERS, NJ 07836	4200	16.03	OLD LEDGEWOOD PROPERTIES LLC 62 OLD LEDGEWOOD RD FLANDERS, NJ 07869
4200	16.02	TURNER, MICHAEL & GANGEMI, NICOLA 12 BRICH ST RANDOLPH, NJ 07869	4200	19	UNKNOWN
			4200	20	SPEICHER, MICHAEL W 55 NAUGHTRIGHT RD LONG VALLEY, NJ 07853

LIST OF PUBLIC UTILITIES

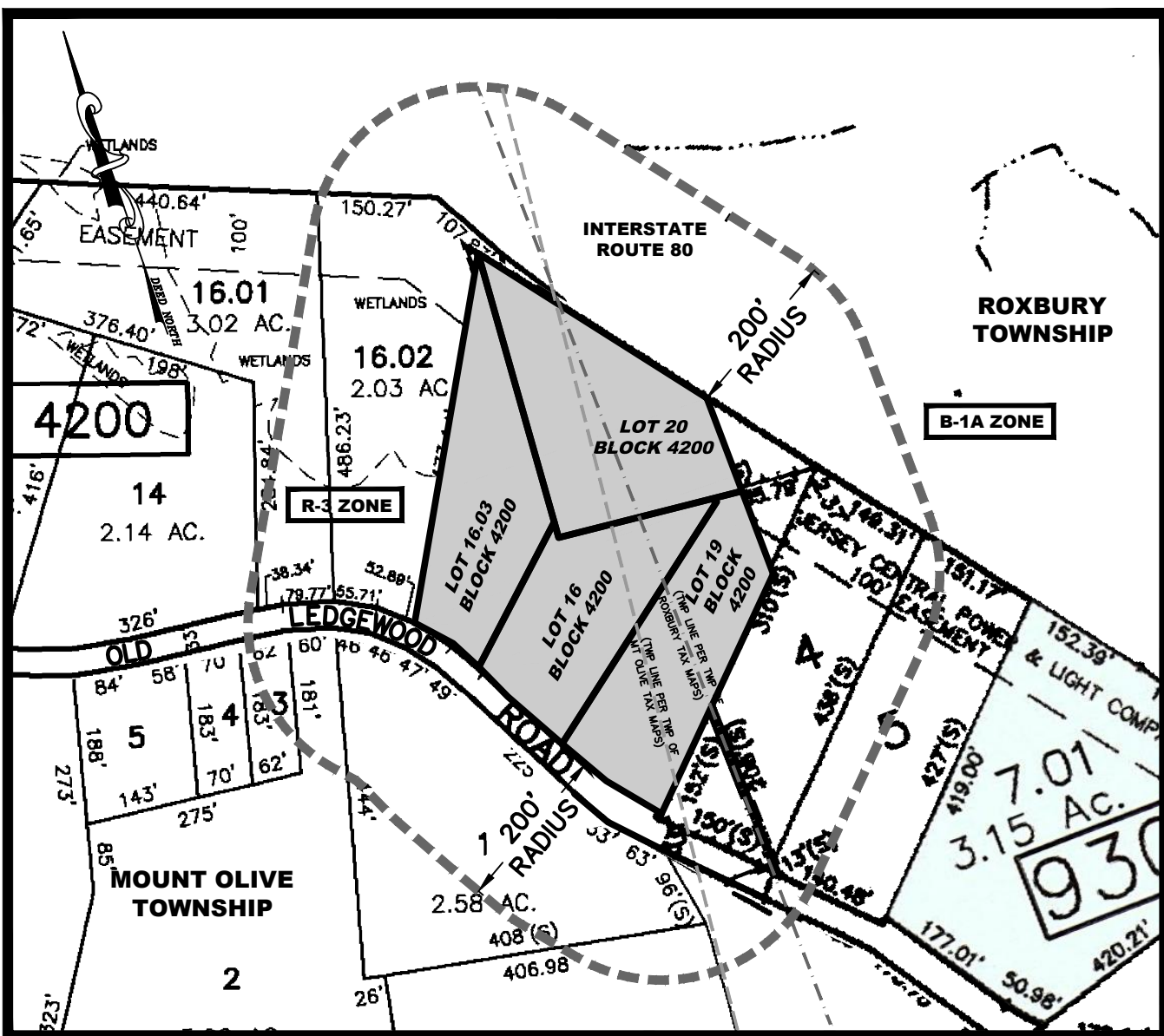
BRUCE D. SMITH HACKETTSTOWN MUNICIPAL UTILITIES AUTHORITY PO BOX 450 HACKETTSTOWN, NJ 07840	MT. OLIVE TOWNSHIP WATER & SEWER DEPT PO BOX 450 MT. OLIVE, NJ 07828	NEW JERSEY- AMERICAN WATER CO. INC PO BOX 5627 CHERRY HILL, NJ 08034
R. ALBANESE NEW JERSEY NATURAL GAS 1415 WYCKOFF ROAD WALL, NJ 07719	NJ DEPT OF TRANSPORTATION 1035 PARKWAY DR CN 600 TRENTON, NJ 08625	APPLIED WASTEWATER MGMT 2 CLERICO LN HILLSBOROUGH, NJ 08844
BRUCE REYNOLDS COLUMBIA GAS TRANSMISSION CORP 1470 POORHOUSE ROAD DOWNTOWNSHIP, PA 19335-3642	PUBLIC SERVICE ELECTRIC & GAS COMPANY MANAGER-CORPORATE PROPERTIES 80 PARK PLAZA, 16B NEWARK, NJ 07102	

SHEET INDEX

COVER SHEET.....	SHEET 1
EXISTING CONDITIONS PLAN.....	SHEET 2
ENVIRONMENTAL PLAN.....	SHEET 3
LOT CONSOLIDATION PLAN.....	SHEET 4
MINOR SUBDIVISION PLAN.....	SHEET 5
SITE LAYOUT PLAN.....	SHEET 6
LOT GRADING PLAN.....	SHEET 7
UTILITY PLAN.....	SHEET 8
STORMWATER DESIGN & DETAILS.....	SHEET 9
INFILTRATION SYSTEM DESIGN & DETAILS.....	SHEET 10
SITE ACCESS AND OLD LEDGEWOOD RD. RECONSTRUCTION PLAN.....	SHEET 11
DRIVEWAY PROFILE.....	SHEET 12
SOIL SEWER PROFILES.....	SHEET 13
STORM EROSION PLAN.....	SHEET 14
LIGHTING PLAN & DETAILS.....	SHEET 15
LANDSCAPING PLAN & DETAILS.....	SHEET 16
PRE-DEVELOPMENT DRAINAGE AREA PLAN.....	SHEET 17
POST-DEVELOPMENT DRAINAGE AREA PLAN.....	SHEET 18
CONSTRUCTION DETAILS.....	SHEET 19

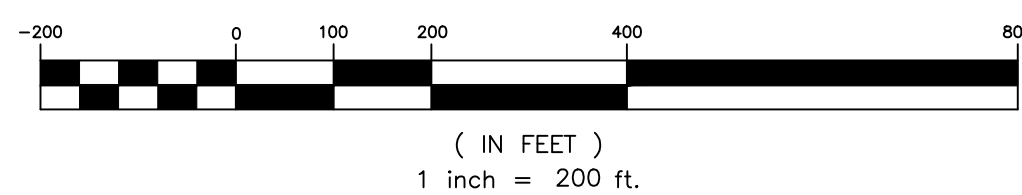
BOARD APPROVAL BOX:

CHAIRMAN	DATE
ENGINEER	DATE
SECRETARY	DATE



KEY MAP

GRAPHIC SCALE



PREPARED BY :

CIVIL ENGINEERING INC.

1 COVE STREET
BUDD LAKE, N.J. 07828
Telephone: (973) 426-1776
Fax: (973) 426-0716

GENERAL NOTES

- 1.) APPLICANT/OWNER: MICHAEL SPEICHER
280 OLD LEDGEWOOD ROAD
FLANDERS, N.J. 07836
(973) 219-0662
- 2.) THE SUBJECT PROPERTIES ARE KNOWN AS LOTS 16, 16.03, 19 & 20 BLOCK 4200 AS SHOWN ON SHEET 42 OF THE TOWNSHIP OF MOUNT OLIVE TAX MAPS. LOT 16 BLOCK 4200 CONTAINS 41.964 S.F. OR 0.96 ACRES. LOT 16.03 BLOCK 4200 CONTAINS 50.609 S.F. OR 1.16 AC. LOT 19 BLOCK 4200 CONTAINS 44.531 S.F. OR 1.02 ACRES. LOT 20 BLOCK 4200 CONTAINS 51.773 S.F. OR 1.19 ACRES. THEIR COMBINED TOTAL AREA IS 168.877 S.F. OR 4.34 AC.
- 3.) LOTS 19 & 20 BLOCK 4200 WERE PREVIOUSLY RECONFIGURED PER PLANS TITLED MINOR SUBDIVISION AND PRELIMINARY AND FINAL SITE PLANS BY CIVIL ENGINEERING, INC., JAMES G. GLASSON, N.J.P.E. #37703, DATED 5/20/22, LAST REVISED 5/10/22, AS APPROVED BY ROXBURY TOWNSHIP, RESOLUTION #20A-20-004, APPROVED 5/9/22, MEMORIALIZED 7/17/22. SUBDIVISION PLAN TO BE FILED AFTER FINAL APPROVAL FROM ROXBURY TWP.
- 4.) LOCATIONS AND TOPOGRAPHY OF THE FIELD WORK PERFORMED BY CIVIL ENGINEERING, INC., ON 12/29/14-01/12/15, VERTICAL DATUM (NAVD83) ESTABLISHED BY GLOBAL POSITIONING METHODOLOGY.
- 5.) DUE TO THE CONFLICTING NATURE OF THE TOWNSHIP LINES AS THEY CROSS LOTS 16, 19, AND 20 IN MOUNT OLIVE AND LOT 4 IN ROXBURY TOWNSHIP, A NEW MUNICIPAL ENFORCEMENT LINE BETWEEN MOUNT OLIVE TOWNSHIP AND ROXBURY TOWNSHIP HAS BEEN AGREED TO. THE LINE IS SHOWN PER MUNICIPAL AGREEMENT PLANS, PREPARED BY CIVIL ENGINEERING, INC., JAMES G. GLASSON, N.J.P.E. #37703, DATED 5/12/21, LAST REVISED 7/28/21. LINE APPROVED BY MOUNT OLIVE TOWNSHIP RESOLUTION #302, ADOPTED 11/9/21. LINE APPROVED BY ROXBURY TOWNSHIP RESOLUTION #2021-2025, ADOPTED 12/14/21.
- 6.) WETLANDS FLAGS A0-A11 AS DELINEATED BY WANDER ECOLOGICAL CONSULTANTS AND LOCATED BY CIVIL ENGINEERING, INC., ON 4/28/21.
- 7.) WETLANDS FLAGS W1-W6 AS DELINEATED BY WANDER ECOLOGICAL CONSULTANTS AND LOCATED BY CIVIL ENGINEERING, INC., ON 4/28/21.
- 8.) WETLANDS FLAGS A0-A11 & W1-W6 (AND ASSOCIATED BUFFERS) SHOWN ON PLANS PER 8/22/22 NJDEP FRESHWATER WETLANDS LETTER OF INTERPRETATION, LINE VERIFICATION FILE NO. 1400-15-0001.1, ACTIVITY NUMBER: FW21001.
- 9.) WATER IS CURRENTLY SUPPLIED TO THE EXISTING DWELLING ON LOT 16 BLOCK 4200 (MOUNT OLIVE) BY AN EXISTING ON SITE WELL.
- 10.) SANITARY SEWERAGE IS PROVIDED TO THE EXISTING DWELLING BY A PRIVATE SEPTIC DISPOSAL SYSTEM, LOCATED IN THE REAR YARD. THIS SYSTEM WILL BE REMOVED AND/OR ABANDONED IN PLACE AND A NEW SYSTEM IS PROPOSED TO SUPPORT BOTH THE PROPOSED NEW BUILDING AND THE EXISTING CONVERTED DWELLING.
- 11.) ELECTRICAL, TELEPHONE & CABLE SERVICE IS PROVIDED BY EXISTING OVERHEAD CONNECTIONS TO THE OLD LEDGEWOOD ROAD RIGHT OF WAY.
- 12.) REFUSE PICKUP TO BE CONTRACTED WITH A PRIVATE HAULER.
- 13.) NO SOIL SHALL BE REMOVED FROM THE SITE WITHOUT PRIOR APPROVAL FROM THE MORRIS COUNTY SOIL CONSERVATION DISTRICT AND THE TOWNSHIP ENGINEER.
- 14.) ALL SOIL EROSION AND SEDIMENT CONTROL PROCEDURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH NJ STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 15.) CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION.
- 16.) CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES. APPLICABLE SAFETY CODES SHALL MEAN THE LATEST EDITION INCLUDING ANY AND ALL AMENDMENTS, REVISIONS, AND ADDITIONS THERETO OF THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S "OCCUPATIONAL SAFETY AND HEALTH STANDARDS" ("OSHA"), "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION" OF THE STATE OF NEW JERSEY, DEPARTMENT OF LABOR AND INDUSTRY, BUREAU OF ENGINEERING SAFETY; "CONSTRUCTION SAFETY CODE", AND "MAINTENANCE, CONSTRUCTION AND DEMOLITION," AND "BUILDING CODE".
- 17.) ALL SOIL TESTING FOR STRUCTURAL COMPONENTS TO BE DONE BY OTHERS. THIS INCLUDES BUT IS NOT LIMITED TO: STRUCTURAL STABILITY, FOOTING DESIGN, PRESENCE OR ABSENCE OF BURIED OR UNSUITABLE MATERIAL AND DEPTH TO ROCK. SITE DESIGN ENGINEER ACCEPTS NO LIABILITY FOR LOST TIME OR ADDITIONAL EXPENSE DUE TO CHANGES OCCURRING FROM AFORESAID CONDITIONS.
- 18.) BUILDER/OWNER/CONTRACTOR OR AUTHORIZED REPRESENTATIVE ACCEPTS RESPONSIBILITY FOR BUILDING ELEVATIONS SHOWN ON APPROVED ENGINEERING DESIGN PLANS. IF CHANGES ARE REQUESTED ONCE EXCAVATION HAS BEGUN, THE SITE DESIGN ENGINEER MUST BE NOTIFIED IMMEDIATELY. THE ENGINEER ACCEPTS NO LIABILITY FOR ANY LOST TIME OR ADDITIONAL EXPENSE DUE TO ELEVATION CHANGES OCCURRING FROM FIELD MODIFICATIONS.
- 19.) AS BUILT PLAN TO BE COMPLETED & SUBMITTED PRIOR TO REQUESTING A FINAL CERTIFICATE OF OCCUPANCY.

PROPOSAL

THE EXISTING LOTS (LOTS 16, 16.03, 19 & 20 BLOCK 4200) ARE LOCATED ON OLD LEDGEWOOD ROAD, IN THE R-3 RESIDENTIAL ZONE. THE FOUR CONNECTING LOTS HAVE ALL BEEN DEVELOPED, EITHER PARTIALLY OR FULLY. LOT 16 BLOCK 4200 WAS FULLY DEVELOPED AS A RESIDENTIAL USE WITH AN EXISTING DWELLING (LOT 5 S.F. FOOTPRINT) AND PAVED DRIVEWAY (3,362 S.F.). THE REMAINING THREE LOTS HAVE ALL BEEN PARTIALLY DEVELOPED WITH UNAPPROVED GRAVEL AREAS WITH NO OTHER STRUCTURES. LOT 16.03 BLOCK 4200 CONTAINS A GRAVEL AREA THAT CONNECTS TO THE PAVED DRIVEWAY OF LOT 16. LOTS 19 & 20 BLOCK 4200 EACH CONTAIN LARGE GRAVEL AREAS THAT ARE CONNECTED TO LOT 4 BLOCK 9303 (ROXBURY TOWNSHIP), WHICH IS THE PLACE OF BUSINESS OF "SERVICE TRUCK CENTERS". THIS CONNECTION PROVIDES THE ONLY ACCESS POINT TO OLD LEDGEWOOD ROAD FROM THE GRAVEL AREAS ON LOTS 19 & 20. WHILE THESE LOTS ARE IN A RESIDENTIAL ZONE, THE SURROUNDING AREAS HAVE BEEN DEVELOPED AS COMMERCIAL BUSINESSES THAT INCLUDE THE PREVIOUSLY MENTIONED SERVICE TRUCK CENTERS, ALONG WITH VERIZON, GEORGE L. MOHR EXCAVATING, AND WEST CHESTER MACHINERY & SUPPLY.

OWNERS OF THE ADJACENT LOTS 16, 16.03, 19 & 20 BLOCK 4200 INTO ONE SINGLE LOT AND REDEVELOP THOSE LOTS INTO THE NEW HOME OF SPEICHER EXCAVATING, INC. THE EXISTING INGRESS/EGRESS CONNECTION TO OLD LEDGEWOOD ROAD (THROUGH LOT 4 BLOCK 9303) WILL BE REMOVED, AND A NEW ACCESS DRIVEWAY WILL BE CONSTRUCTED OFF OF A REASONED AND REGRADED SECTION OF OLD LEDGEWOOD ROAD. THE EXISTING WELL WILL BE RENOVATED (WITH NO CHANGE TO FOOTPRINT) INTO THE OFFICE FOR SPEICHER EXCAVATING, INC. AND A NEW WAREHOUSE BUILDING (10,010 S.F.) IS PROPOSED. THE WAREHOUSE WILL BE USED FOR EQUIPMENT STORAGE AND MAINTENANCE AND BE ACCESSIBLE FROM OLD LEDGEWOOD ROAD THROUGH A NEW COMMERCIAL DRIVEWAY AND PARKING LOT. THE PARKING LOT WILL CONNECT BOTH BUILDINGS AND PROVIDE PARKING FOR BOTH. THE REAR GRAVEL PARKING LOT BEHIND THE NEW WAREHOUSE WILL PROVIDE STORAGE FOR HEAVY MACHINERY AND MATERIALS.

THE EXISTING WELL WILL REMAIN TO PROVIDE WATER TO THE EXISTING DWELLING AND WILL ALSO BE USED TO SUPPLY WATER TO THE PROPOSED NEW BUILDING. THE EXISTING SEPTIC SYSTEM FOR THE ONE AND A HALF STORY DWELLING WILL BE REMOVED AND/OR ABANDONED IN PLACE. A NEW UTILITY LINE WILL BE RUN UNDERGROUND TO THE NEW ACCESSORY WAREHOUSE FROM AN EXISTING POLE IN THE OLD LEDGEWOOD ROAD RIGHT OF WAY. A NEW STORMWATER MANAGEMENT SYSTEM CONSISTING OF CATCH BASINS, MANHOLES AND A NEW UNDERGROUND STORM DRAINAGE SYSTEM (UNDER THE PROPOSED PARKING LOT) IS PROPOSED TO HANDLE STORMWATER RUNOFF. THE SITE WILL BE FINISHED WITH EXTERIOR LIGHTING FOR THE PARKING LOTS AND NEW BUILDING, AND LANDSCAPING. THIS USE WILL REQUIRE BULK VARIANCES AND A USE VARIANCE FOR APPROVAL.

BUSINESS NOTES

SPEICHER EXCAVATING, INC. IS COMMERCIAL EXCAVATING CONTRACTOR THAT OPERATES IN THE TRI STATE AREA. THE COMPANY CURRENTLY HAS 50 EMPLOYEES AND HAS EMPLOYEES ON THE PROPERTY FROM 6AM TO 6PM, MONDAY THROUGH FRIDAY, WITH OCCASIONAL HOURS ON SATURDAY. FIVE EMPLOYEES WILL WORK IN THE OFFICE AND A MORE WILL WORK IN THE BUILDING/YARD AS EITHER MECHANICS OR DRIVERS. ALL OTHER EMPLOYEES REPORT DIRECTLY TO JOBSITE ON ANY GIVEN DAY. ANY PUBLIC TRAFFIC TO THE SITE IS MINIMAL AND ANY PUBLIC TRAFFIC TO THE SITE IS BY APPOINTMENT ONLY. THE FRONT PAVED PARKING LOT WILL BE USED BY THE OFFICE EMPLOYEES AND VISITORS, WITH 9 SPACES ALLOTTED FOR THE 4 EMPLOYEES, PLUS ANY PUBLIC TRAFFIC. THE REAR PAVED PARKING AREA CONTAINS 11 SPACES ALLOTTED FOR THE 4 WAREHOUSE EMPLOYEES/DRIVERS. ANY OTHER SPACES ARE AVAILABLE FOR EMPLOYEES WAITING SERVICE OR FOR TEMPORARY PARKING OF EMPLOYEES PICKING UP OR DROPPING OFF MATERIALS/EQUIPMENT. THE REAR GRAVEL PARKING LOT WILL BE USED TO STORE MACHINERY AND MATERIALS. VEHICLES STORED IN THE YARD WILL INCLUDE 2 'LOWBOY' STYLE TRACTOR TRAILERS, 3 DUMP TRUCKS AND 2-3 UTILITY VEHICLES.

ZONE REQUIREMENTS

LOTS 16, 16.03, 19 & 20 ARE LOCATED IN THE R-3 RESIDENTIAL ZONE AND ARE SUBJECT TO THE FOLLOWING:

LOT:	REQUIRED	EXISTING	EXISTING	EXISTING	EXISTING	PROPOSED
MINIMUM LOT SIZE	1 ACRE	0.961 AC*	1.16 AC	1.021 AC	1.192 AC	4.336 AC
MINIMUM LOT WIDTH @ SETBACK	80 FT.	115.26 FT.	113.26 FT.	144.13 FT.	133.90 FT.	407.40 FT.
MAXIMUM LOT COVERAGE	30%	13.29%	3.63%	38.77%*	31.01%*	37.80%*
MAXIMUM BUILDING COVERAGE	20%	3.33%	0%	0%	0%	4.99%
PRINCIPAL BUILDING:	REQUIRED	EXISTING	EXISTING	EXISTING	EXISTING	PROPOSED
MINIMUM FRONT YARD SETBACK	41.62 FT.	N/A	N/A	N/A	N/A	41.62 FT.
MINIMUM SIDE YARD SETBACK	20 FT.	90.26 FT. (L)/25.61 FT. (R)	N/A	N/A	N/A	194.50 FT. (L)/162.00 FT. (R)
MINIMUM REAR YARD SETBACK	40 FT.	155.70 FT.	N/A	N/A	N/A	373.40 FT.
MAXIMUM HEIGHT	35 FT.	26.15 FT.	N/A	N/A	N/A	23.04 FT.
ACCESSORY STRUCTURE:	REQUIRED	EXISTING	EXISTING	EXISTING	EXISTING	PROPOSED
MINIMUM FRONT YARD SETBACK	60 FT.	N/A	N/A	N/A	N/A	218.7 FT.
MINIMUM OTHER YARD SETBACK	1.5 FT. A HEIGHT	N/A	N/A	N/A	N/A	79.4 FT. (R)/178.5 FT. (L)
MINIMUM SETBACK TO PRINCIPAL STRUCTURE	N/A	N/A	N/A	N/A	N/A	N/A
MAXIMUM HEIGHT	15 FT.	N/A	N/A	N/A	N/A	29.37 FT.*
THE PROPOSED LOT HAS ALSO BEEN ANALYZED USING THE U (LIGHT INDUSTRIAL) ZONING REQUIREMENTS, AS MULTIPLE SURROUNDING LOTS IN THE R-3 RESIDENTIAL ZONE HAVE BEEN DEVELOPED AS COMMERCIAL OR INDUSTRIAL USES:						
LOT:	REQUIRED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED
MINIMUM LOT SIZE	3 ACRES	41.62 FT.	41.62 FT.*	41.62 FT.*	41.62 FT.*	41.62 FT.*
MINIMUM LOT WIDTH	250 FT.	194.50 FT. (L)/162.00 FT. (R)	194.50 FT. (L)/162.00 FT. (R)	194.50 FT. (L)/162.00 FT. (R)	194.50 FT. (L)/162.00 FT. (R)	194.50 FT. (L)/162.00 FT. (R)
MINIMUM LOT DEPTH	250 FT.	373.40 FT.	373.40 FT.	373.40 FT.	373.40 FT.	373.40 FT.
MAXIMUM LOT COVERAGE	50%	37.80%	37.80%	37.80%	37.80%	37.80%
MAXIMUM FLOOR AREA RATIO	0.3	0.06	0.06	0.06	0.06	0.06
PRINCIPAL BUILDING:	REQUIRED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED
MINIMUM FRONT YARD SETBACK	100 FT.	41.62 FT.	41.62 FT.*	41.62 FT.*	41.62 FT.*	41.62 FT.*
MINIMUM SIDE YARD SETBACK	50 FT.	194.50 FT. (L)/162.00 FT. (R)	194.50 FT. (L)/162.00 FT. (R)	194.50 FT. (L)/162.00 FT. (R)	194.50 FT. (L)/162.00 FT. (R)	194.50 FT. (L)/162.00 FT. (R)
MINIMUM REAR YARD SETBACK	50 FT.	373.40 FT.	373.40 FT.	373.40 FT.	373.40 FT.	373.40 FT.
MAXIMUM HEIGHT	40 FT.	23.04 FT.	23.04 FT.	23.04 FT.	23.04 FT.	23.04 FT.
ACCESSORY STRUCTURE:	REQUIRED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED
MINIMUM FRONT YARD SETBACK	125 FT.	79.4 FT.	79.4 FT.	79.4 FT.	79.4 FT.	79.4 FT.
MINIMUM OTHER YARD SETBACK	25 FT.	144.7 FT.	144.7 FT.	144.7 FT.	144.7 FT.	144.7 FT.
MINIMUM SETBACK TO PRINCIPAL STRUCTURE	25 FT.	144.7 FT.	144.7 FT.	144.7 FT.	144.7 FT.	144.7 FT.
MAXIMUM HEIGHT	15 FT.	29.37 FT.*	29.37 FT.*	29.37 FT.*	29.37 FT.*	29.37 FT.*

*EXISTING NON-CONFORMING CONDITION
* PROPOSED VARIANCE CONDITION
* A USE VARIANCE IS REQUIRED FOR THE COMMERCIAL USE IN A RESIDENTIAL ZONE

NEW JERSEY HIGHLANDS ACT APPLICABILITY

THE SUBJECT PROPERTY IS LOCATED WITHIN THE BOUNDARIES OF THE NJ HIGHLANDS ACT "PLANNING" AREA. PROPERTIES LOCATED IN THIS AREA ARE NOT SUBJECT TO A HIGHLANDS DETERMINATION OR AN EXEMPTION.

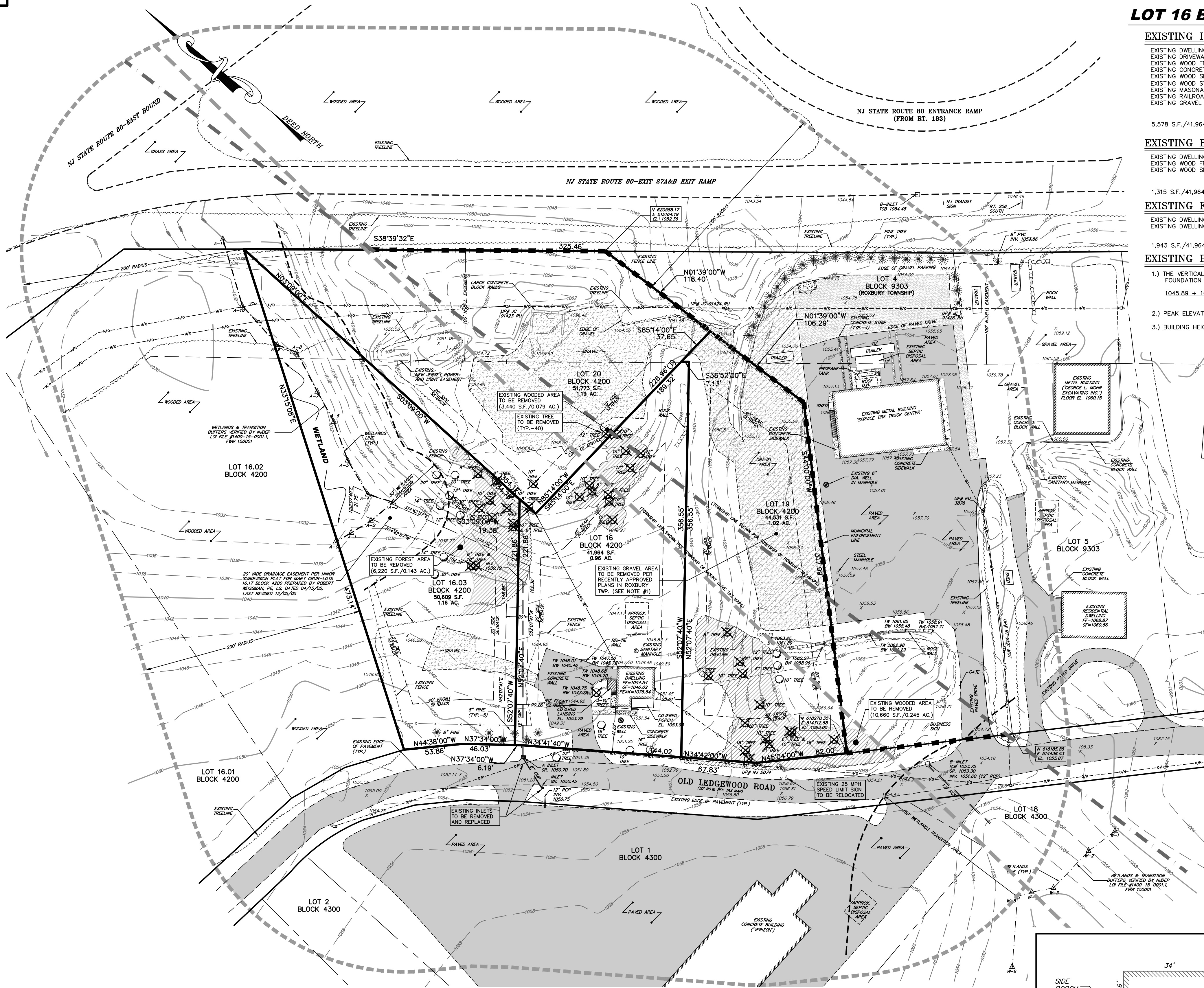
VARIANCES REQUIRED (UNDER R-3 ZONING)

LOT:	REQUIRED	PROPOSED NEW LOT 16 BLOCK 4200
MAXIMUM LOT COVERAGE	30%	37.80%*
ACCESSORY STRUCTURE:	REQUIRED	PROPOSED NEW LOT 16 BLOCK 4200
MAXIMUM HEIGHT	15 FT.	29.37 FT.*
PROPOSED FREESTANDING SIGN		

VARIANCES REQUIRED (UNDER U ZONING)

PRINCIPAL BUILDING:	REQUIRED	PROPOSED NEW LOT 16 BLOCK 4200
MINIMUM FRONT SETBACK	100 FT.	41.62 FT.★
ACCESSORY STRUCTURE:	REQUIRED	PROPOSED NEW LOT 16 BLOCK 4200
MAXIMUM HEIGHT	15 FT.	29.37 FT.★
PROPOSED FREESTANDING SIGN SETBACK	30 FT.	10 FT.★
FENCE:	REQUIRED	PROPOSED NEW LOT 16 BLOCK 4200
MAXIMUM HEIGHT	8 FT.	8 FT.★
MATERIAL IN THE FRONT YARD	NO CHAIN LINK ALLOWED	CHAIN LINK★

REQUESTED



EXISTING CONDITIONS

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.

GENERAL NOTES:

- LOT DIMENSIONS FOR LOT 19 BLOCK 4200 MT. OLIVE TOWNSHIP, (A.K.A. LOT 3 BLOCK 9303 IN ROXBURY TOWNSHIP), LOT 20 BLOCK 4200 IN MT. OLIVE TOWNSHIP, (A.K.A. LOT 1 BLOCK 9303 IN ROXBURY TOWNSHIP) AND LOT 4 BLOCK 9303 (MT. OLIVE TOWNSHIP) PER RECENT APPROVED SITE PLAN AND SUBDIVISION PROPOSED IMPROVEMENTS PER PLANS TITLED MINOR SUBDIVISION AND PRELIMINARY SITE PLANS BY CIVIL ENGINEERING, INC., JAMES G. GLASSON, NJPE 37703, DATED 11/20/19, LAST REVISED 6/10/22, AS APPROVED BY ROXBURY TOWNSHIP, RESOLUTION #28A-20-004, APPROVED 5/9/22, MONICIALIZED 7/11/22, SUBDIVISION PLAT TO BE FILED AFTER FINAL APPROVAL FROM ROXBURY TWP. LAST REVISED 5/17/22.
- LOT DIMENSIONS FOR LOT 16 BLOCK 4200 (MT. OLIVE TOWNSHIP) PER SURVEY PREPARED BY CIVIL ENGINEERING, INC., ROBERT H. JORDAN, JR., NJPLS No. 34485, DATED 05/24/13, LAST REVISED 5/17/22.
- LOT DIMENSIONS FOR LOT 16.03 BLOCK 4200 (MT. OLIVE TOWNSHIP) PER SURVEY PREPARED BY CIVIL ENGINEERING, INC., ROBERT H. JORDAN, JR., NJPLS No. 34485, DATED 05/24/13, LAST REVISED 5/17/22.
- LOCATIONS AND TOPOGRAPHY TIE IN PER FIELD WORK PERFORMED BY CIVIL ENGINEERING, INC., ON 12/29/14-01/12/15, VERTICAL DATUM ESTABLISHED BY GLOBAL POSITIONING METHODOLOGY.
- WETLANDS FLAG A0-A11 AS DELINEATED BY WANDER ECOLOGICAL CONSULTANTS AND LOCATED BY CIVIL ENGINEERING, INC., ON 4/28/21.
- WETLANDS FLAG W1-W6 AS DELINEATED BY WANDER ECOLOGICAL CONSULTANTS AND LOCATED BY CIVIL ENGINEERING, INC., ON 4/28/21.
- WETLANDS FLAG A0-A11 & W1-W6 (AND ASSOCIATED BUFFERS) SHOWN ON PLANS PER 6/22/22 NJDEP FRESHWATER WETLANDS LETTER OF INTERPRETATION, LINE VERIFICATION FILE NO. 1400-15-00011, ACTIVITY NUMBER FW1001.
- MUNICIPAL ENFORCEMENT LINE SHOWN AS PER MUNICIPAL AGREEMENT PLANS, PREPARED BY CIVIL ENGINEERING, INC., JAMES G. GLASSON, NJPE #37703, DATED 5/12/21, LAST REVISED 7/28/21.
- ROXBURY TOWNSHIP & MOUNT OLIVE TOWNSHIP ZONE LINES PER THEIR RESPECTIVE TAX MAPS.

LOT 16 BLOCK 4200

EXISTING IMPERVIOUS COVERAGE

EXISTING DWELLING	1,079 S.F.
EXISTING DRIVEWAY	3,582 S.F.
EXISTING WOOD FRONT PORCH	160 S.F.
EXISTING CONCRETE WALK	232 S.F.
EXISTING WOOD SIDE PORCH	76 S.F.
EXISTING WOOD STAIRS (2)	37 S.F.
EXISTING MASONRY WALL	36 S.F.
EXISTING RAILROAD TIE WALL	24 S.F.
EXISTING GRAVEL	352 S.F.
TOTAL	5,578 S.F.

5,578 S.F./41,964 S.F. = 0.1329 OR 13.29%

EXISTING BUILDING COVERAGE

EXISTING DWELLING	1,079 S.F.
EXISTING WOOD FRONT PORCH	160 S.F.
EXISTING WOOD SIDE PORCH	76 S.F.
TOTAL	1,315 S.F.

1,315 S.F./41,964 S.F. = 0.0313 OR 3.13%

EXISTING FLOOR AREA RATIO

EXISTING DWELLING - FIRST FLOOR	1,079 S.F.
EXISTING DWELLING - SECOND FLOOR	864 S.F.
TOTAL	1,943 S.F.

1,943 S.F./41,964 S.F. = 0.046

EXISTING BUILDING HEIGHT CALCULATION

- THE VERTICAL DISTANCE FROM THE AVERAGE FINISHED GRADE FIVE (5) FEET FROM THE FOUNDATION TO THE LEVEL OF THE HIGHEST POINT OF THE ROOF SURFACE.
 $1045.89 + 1048.55 + 1051.08 + 1051.06 + 1050.34 = \text{EL. } 1049.38$
- PEAK ELEVATION = EL. 1075.54
= PEAK ELEVATION - AVERAGE GRADE
= EL. 1075.54 - EL. 1049.38 = 26.15 FT.
- BUILDING HEIGHT = EL. 1075.54 - EL. 1049.38 = 26.15 FT.

KEY

AREA OF TREE CANOPY TO BE REMOVED (0.466 AC.)

LOT 16.03 BLOCK 4200

EXISTING IMPERVIOUS COVERAGE

EXISTING GRAVEL	1,942 S.F.
1,942 S.F./50,609 S.F. = 0.0383 OR 3.83%	

LOT 19 BLOCK 4200

EXISTING IMPERVIOUS COVERAGE

EXISTING GRAVEL	17,143 S.F.
EXISTING CONCRETE BORDER WALL	124 S.F.
TOTAL	17,267 S.F.

17,267 S.F./44,531 S.F. = 0.3877 OR 38.77%

LOT 20 BLOCK 4200

EXISTING IMPERVIOUS COVERAGE

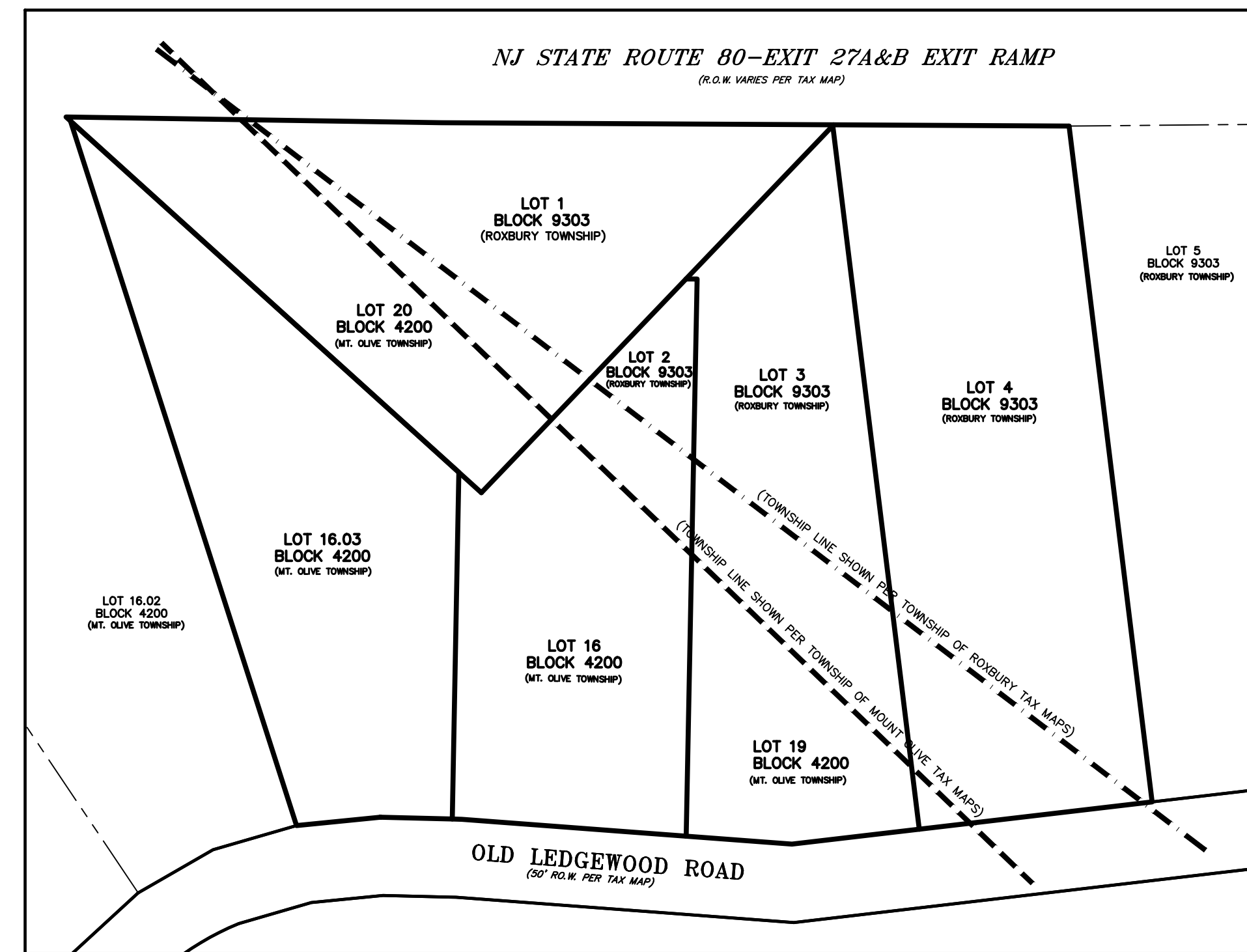
EXISTING GRAVEL	16,056 S.F.
16,056 S.F./51,773 S.F. = 0.3101 OR 31.01%	

COMBINED LOTS

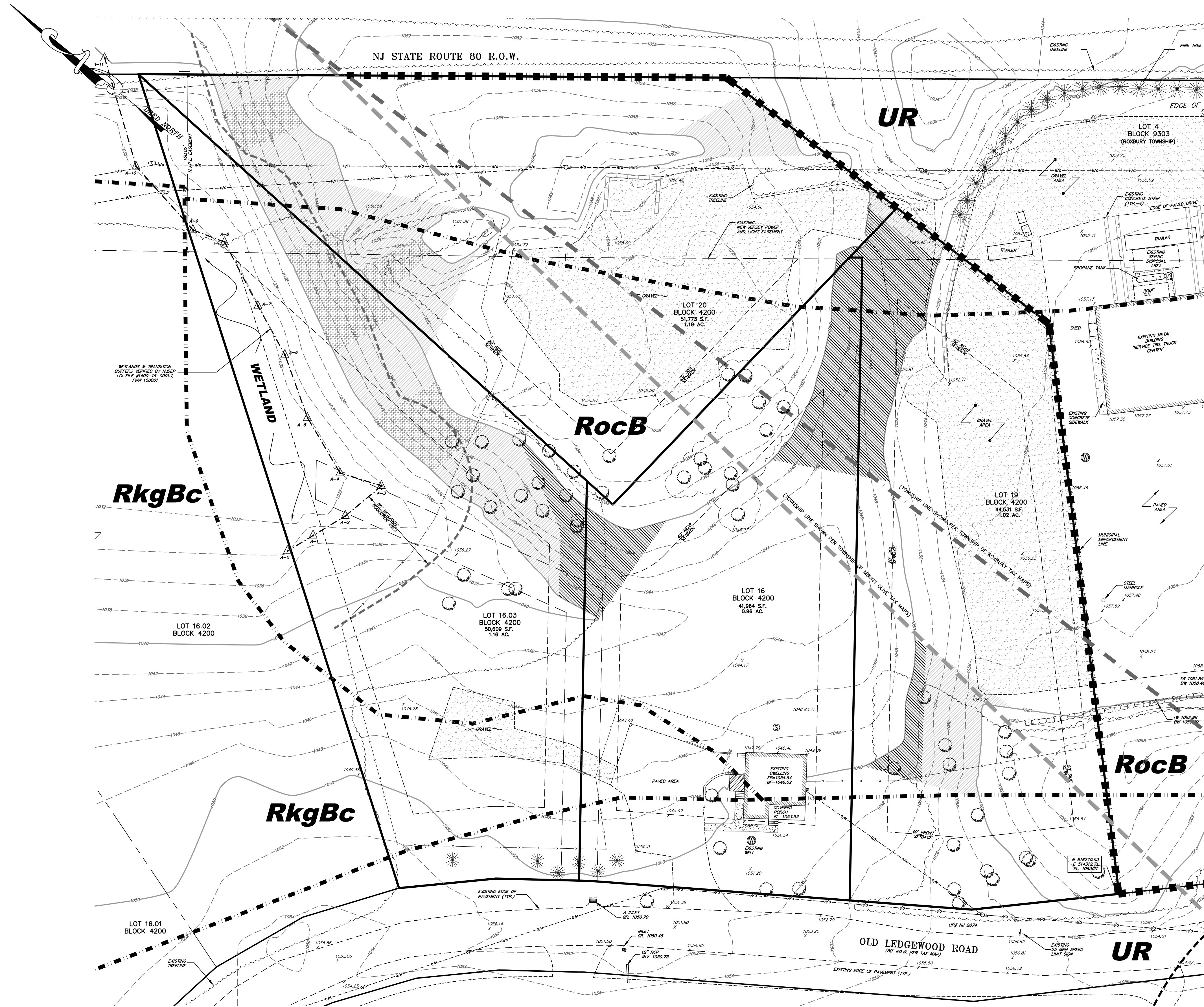
EXISTING IMPERVIOUS COVERAGE

EXISTING DWELLING	1,079 S.F.
EXISTING DRIVEWAY	3,582 S.F.
EXISTING WOOD FRONT PORCH	160 S.F.
EXISTING CONCRETE WALK	232 S.F.
EXISTING WOOD SIDE PORCH	76 S.F.
EXISTING WOOD STAIRS (2)	37 S.F.
EXISTING MASONRY WALL	36 S.F.
EXISTING RAILROAD TIE WALL	24 S.F.
EXISTING GRAVEL	35,493 S.F.
EXISTING CONCRETE BORDER WALL	124 S.F.
TOTAL	40,843 S.F.

40,843 S.F./188,877 S.F. = 0.2162 OR 21.62%



U:\5332 - Speight-Old Ledgewood Rd-Mt Olive.dwg Site Plan Rev 1\5332-3 Environmental Plan Rev 1.dwg PS: Civil Inc.ctb



ENVIRONMENTAL PLAN

GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.

SOIL CATEGORIES:

APPROX. SOIL BOUNDARY LINE PER USDA WEB SOIL SURVEY

UR

URBAN LAND

RocB

ROCKAWAY GRAVELLY SANDY LOAM, 3 TO 8 PERCENT SLOPES

RkgBc

RIDGEBURY STONY LOAM, NEW JERSEY HIGHLANDS, 0 TO 8 PERCENT SLOPES, EXTREMELY STONY

COMBINED LOTS

SLOPE CALCULATIONS

	0 - 14.9% SLOPE	158,702 S.F.
	15 - 24.9% SLOPE	25,280 S.F.
	25% AND GREATER SLOPE	4,895 S.F.

CRITICAL AREAS DISTURBANCE

	PROPOSED IMPERVIOUS COVERAGE IN AREAS OF 15-25% SLOPES	9,990 S.F.
	PROPOSED IMPERVIOUS COVERAGE IN AREAS OF >25% SLOPES	0 S.F.

TOTAL PROPOSED IMPERVIOUS COVERAGE (SEE SHEET 6) = 71,396 S.F.

9,990 S.F. / 71,396 S.F. = 13.99% OF IMPERVIOUS COVERAGE PROPOSED WITHIN MODERATE SLOPE AREA

MAXIMUM ALLOWED = 15% PER R-3 ZONING STANDARDS
= 27.5% PER LI ZONING STANDARDS

REVISE PER 3-11-23 BOARD ENGINEER'S
REPORT, 3-10-23 DIRECTOR OF PLANNING
REPORT, 3-13-23 HABITAT BY DESIGN
REPORT, 10-11-22 MDCSD COMMENTS,
1. AND 9-21-23 PUBLIC HEARING

Rev. No. Description By Date

CIVIL ENGINEERING, INC.

1 COVE STREET
BUDD LAKE, N.J. 07828
Telephone: (973) 426-1776
Fax: (973) 426-0716
N.J. - C of A #24GA27922000

JAMES G. GLASSON
PROFESSIONAL ENGINEER, N.J. LIC. NO. 37703

SHEET 3 OF 19

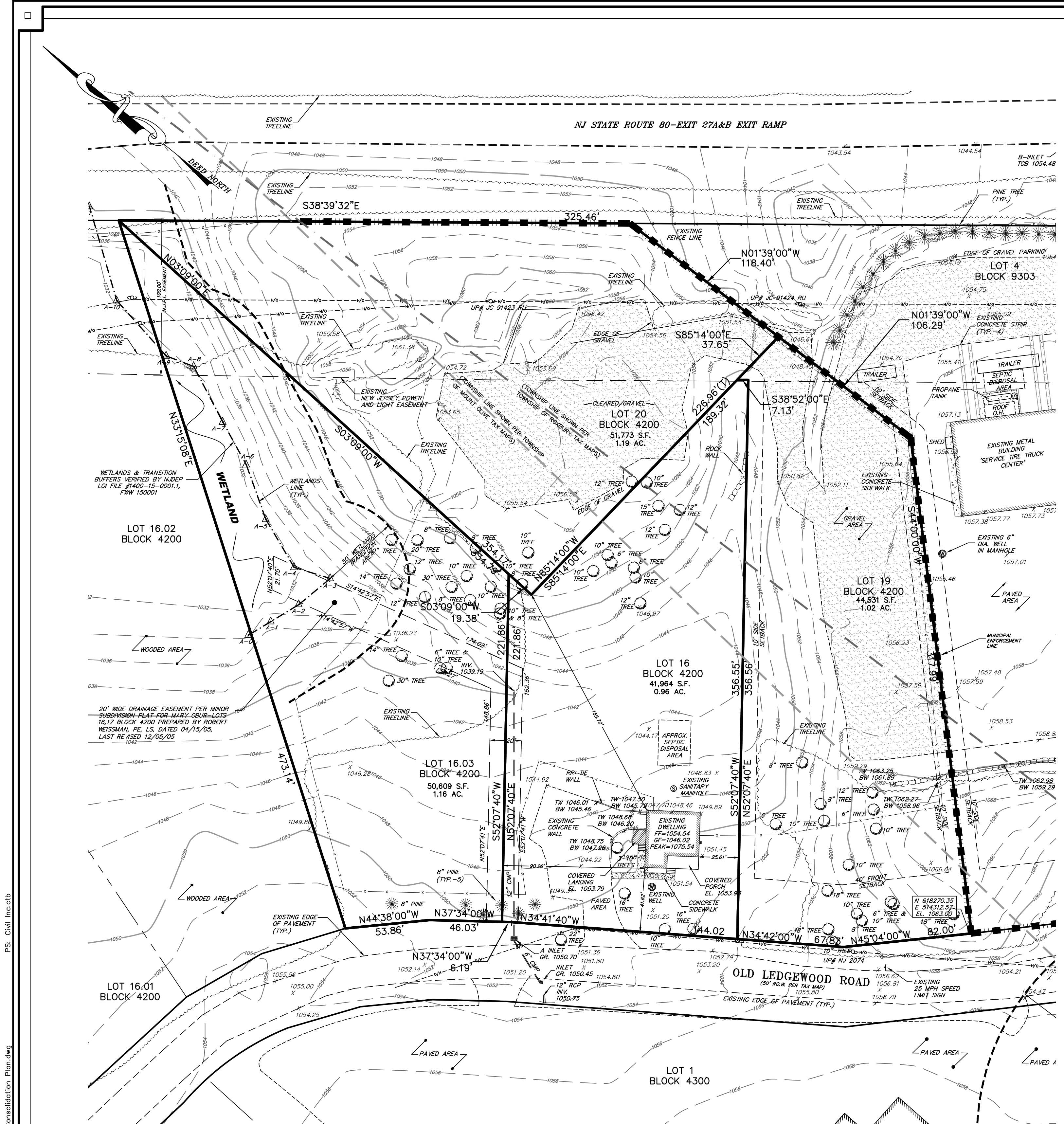
ENVIRONMENTAL PLAN

FOR:

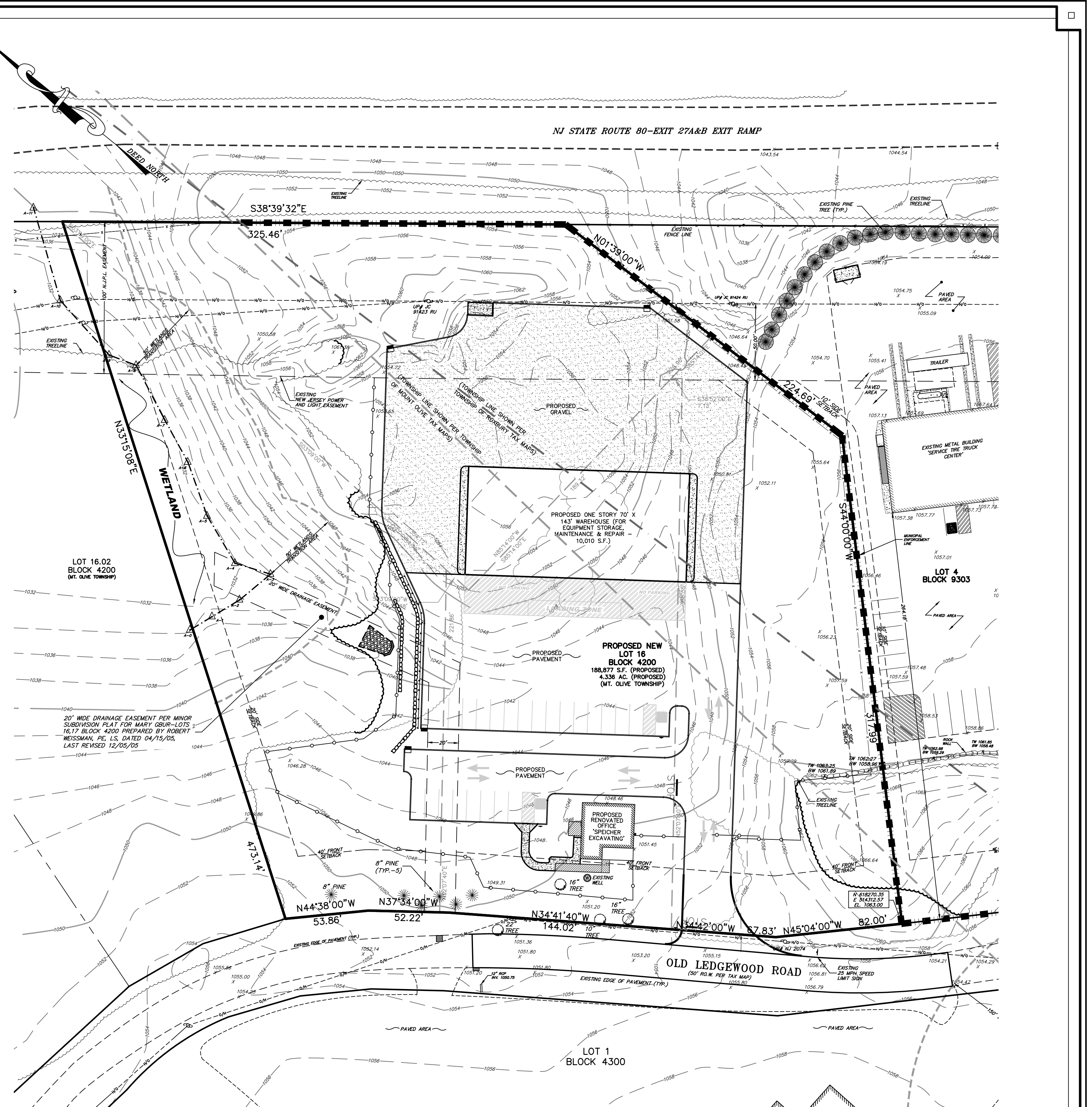
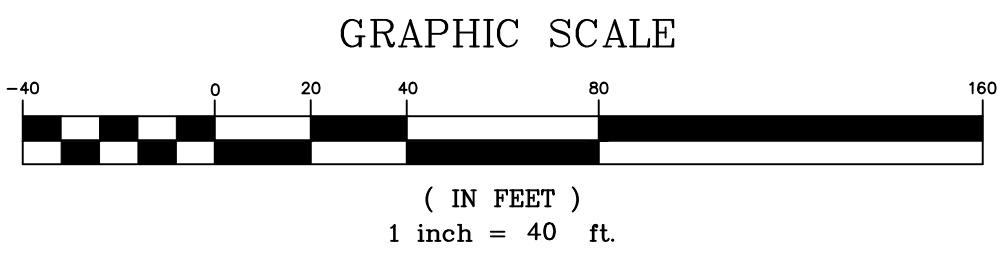
LOTS 16, 16.03,
19 & 20 BLOCK 4200
'OLD LEDGEWOOD ROAD'

TOWNSHIP OF MOUNT OLIVE
MORRIS COUNTY, NEW JERSEY

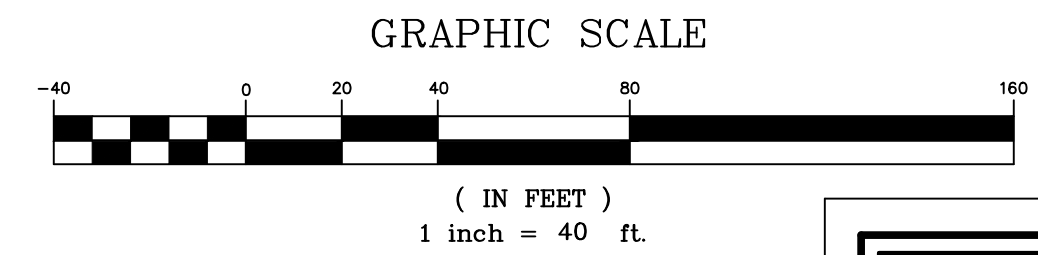
Checked By: JG Date: 9/15/22
Drawn By: WBB Project No: 5332



EXISTING CONDITIONS



PROPOSED LAYOUT WITH LOT CONSOLIDATION



NOTE

CONDITIONS SHOWN ON ADJACENT LOT 4 BLOCK 9303 (ROXBURY TOWNSHIP) PROPOSED LAYOUT VIEW PER RECENT APPROVED SITE PLAN AND SUBDIVISION PROPOSED IMPROVEMENTS PER PLANS TITLED MINOR SUBDIVISION AND PRELIMINARY SITE PLANS BY CIVIL ENGINEERING, INC., JAMES G. GLASSON, N.J.P.E. 37703, DATED 11/20/19, LAST REVISED 6/10/22, AS APPROVED BY ROXBURY TOWNSHIP, RESOLUTION #28A-20-004, APPROVED 5/9/22, MEMORIALIZED 7/11/22

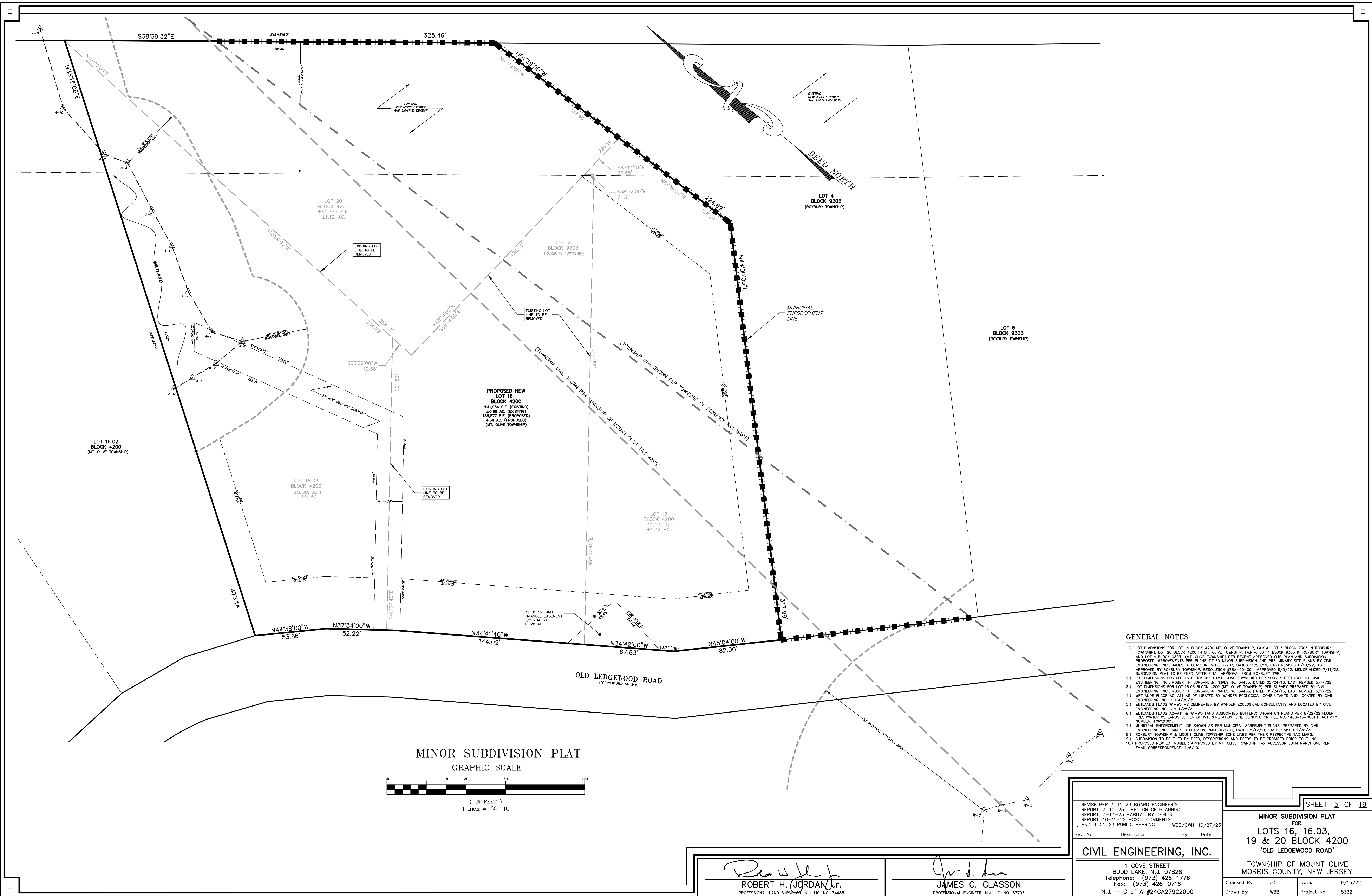
Robert H. Jordan Jr.
ROBERT H. JORDAN JR.
PROFESSIONAL LAND SURVEYOR, N.J. LIC. NO. 34485

James G. Glasson
JAMES G. GLASSON
PROFESSIONAL ENGINEER, N.J. LIC. NO. 37703

REVISE PER 3-11-23 BOARD ENGINEER'S REPORT, 3-10-23 DIRECTOR OF PLANNING REPORT, 3-13-23 HABITAT BY DESIGN REPORT, 10-11-22 MDCSD COMMENTS, 1. AND 9-21-23 PUBLIC HEARING			
Rev. No.	Description	By	Date
1	WBB/CWH	10/27/23	

CIVIL ENGINEERING, INC.
1 COVE STREET
BUDD LAKE, N.J. 07828
Telephone: (973) 426-1776
Fax: (973) 426-0716
N.J. - C of A #24GA27922000

LOT CONSOLIDATION PLAN FOR: LOTS 16, 16.03, 19 & 20 BLOCK 4200 'OLD LEDGEWOOD ROAD'	
TOWNSHIP OF MOUNT OLIVE MORRIS COUNTY, NEW JERSEY	
Checked By: JG	Date: 9/15/22
Drawn By: WBB	Project No: 5332



Robert H. Jordan Jr.
ROBERT H. JORDAN JR.
PROFESSIONAL LAND SURVEYOR, N.J. LIC. NO. 34485

James G. Glasson
JAMES G. GLASSON
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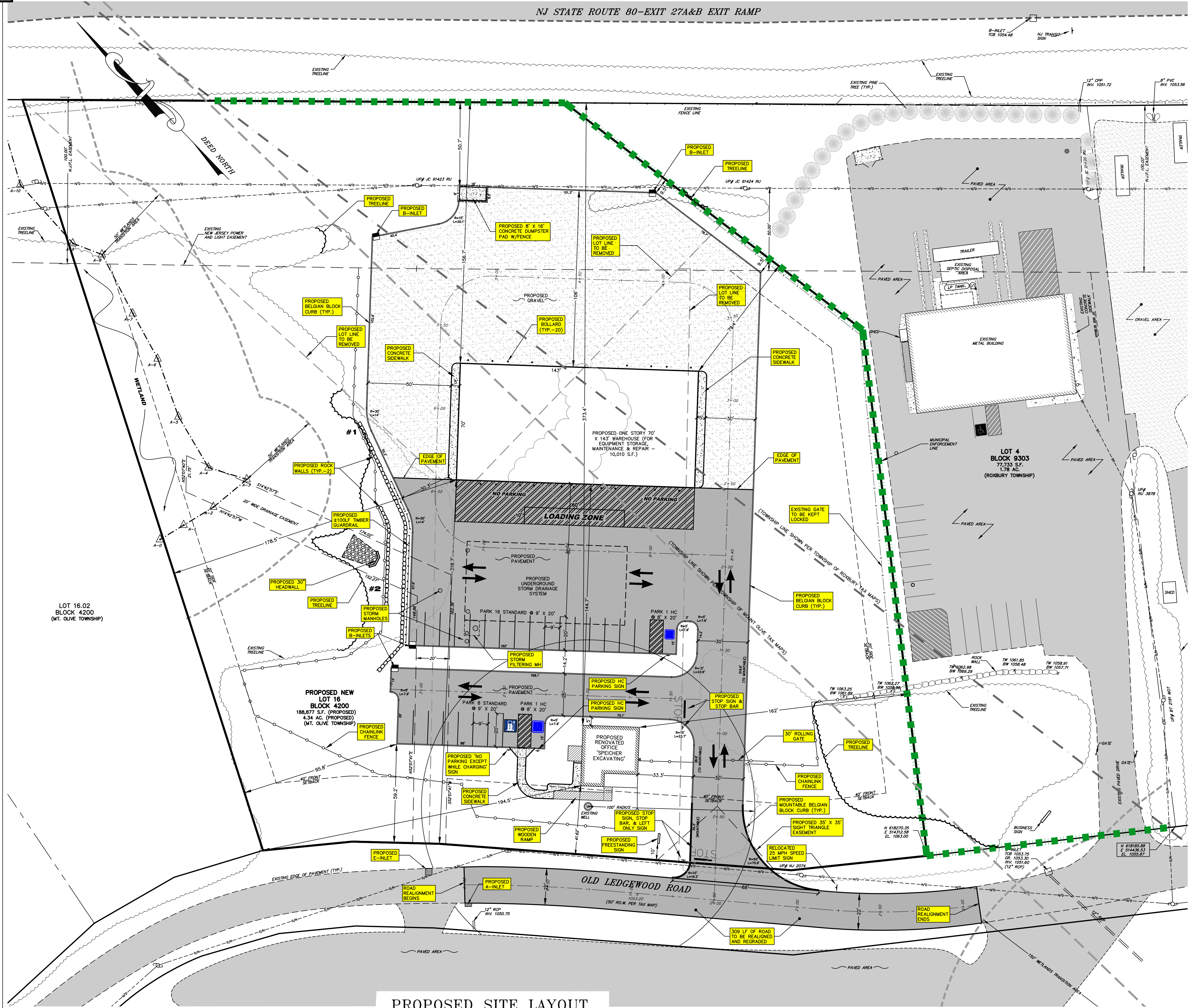
CIVIL ENGINEERING, INC.
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N.J. - C of A #24GA2792000

Rev. No.	Description	By	Date
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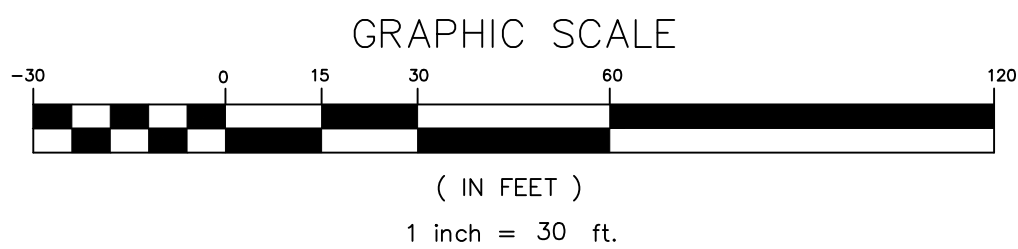
MINOR SUBDIVISION PLAT
FOR:
**LOTS 16, 16.03,
19 & 20 BLOCK 4200
'OLD LEDGEWOOD ROAD'**
TOWNSHIP OF MOUNT OLIVE
MORRIS COUNTY, NEW JERSEY

Checked By:	JG	Date:	9/15/22
Drawn By: <td>WBB<td>Project No:<td>5332</td></td></td>	WBB <td>Project No:<td>5332</td></td>	Project No: <td>5332</td>	5332

SHEET 5 OF 19



PROPOSED SITE LAYOUT



PROPOSED IMPERVIOUS COVERAGE (NEW LOT 16 BLOCK 4200)

EXISTING DWELLING	1,079 S.F.
EXISTING WOOD FRONT PORCH	160 S.F.
EXISTING WOOD SIDE PORCH	76 S.F.
PROPOSED CONCRETE SIDEWALK	393 S.F.
PROPOSED WOOD HANDICAP RAMP	192 S.F.
PROPOSED CURB	800 S.F.
PROPOSED PAVEMENT	30,902 S.F.
PROPOSED CONCRETE SIDEWALK (AT BUILDING)	692 S.F.
PROPOSED BUILDING	10,010 S.F.
PROPOSED GRAVEL	27,080 S.F.
PROPOSED CONCRETE HEADWALL	12 S.F.
TOTAL	71,396 S.F.

71,396 S.F./188,877 S.F. = 0.3780 OR 37.80%

PROPOSED BUILDING COVERAGE (NEW LOT 16 BLOCK 4200)

EXISTING DWELLING	1,079 S.F.
EXISTING WOOD FRONT PORCH	160 S.F.
EXISTING WOOD SIDE PORCH	76 S.F.
PROPOSED WAREHOUSE BUILDING	10,010 S.F.
TOTAL	11,325 S.F.

11,325 S.F./188,877 S.F. = 0.0599 OR 5.99%

PROPOSED FLOOR AREA RATIO (NEW LOT 16 BLOCK 4200)

EXISTING DWELLING - FIRST FLOOR	1,079 S.F.
EXISTING DWELLING - SECOND FLOOR	864 S.F.
PROPOSED WAREHOUSE BUILDING - FIRST FLOOR	10,010 S.F.
TOTAL	11,953 S.F.

11,953 S.F./188,877 S.F. = 0.06

COMPANY EMPLOYEES NOTE

SPEICHER EXCAVATING CURRENTLY EMPLOYS 50 PEOPLE. THE PROPOSED RENOVATED OFFICE WILL HAVE 5 FULL TIME EMPLOYEES AND THE PROPOSED NEW WAREHOUSE WILL HAVE 4 FULL TIME EMPLOYEES, PERFORMING MAINTENANCE AND REPAIRS ON THE COMPANY VEHICLES. AN ADDITIONAL 2 EMPLOYEES ARE UTILIZED AS DRIVERS AND WILL PARK AT THE SITE AND TRANSPORT MACHINERY (USING COMPANY VEHICLES) TO JOB SITES. ALL OTHER EMPLOYEES GO DIRECTLY TO JOB SITES ON A DAILY BASIS AND WILL NOT REQUIRE PARKING AT THIS SITE.

ELECTRIC VEHICLE PARKING REQUIREMENTS (PER STATEWIDE MUNICIPAL ELECTRIC VEHICLE ORDINANCE)

PROPOSED NUMBER OF PARKING SPACES	NUMBER OF EV/HR PARKING SPACES REQUIRED	NUMBER OF EV/HR ACCESSIBLE PARKING SPACES REQUIRED
1-50	1	0
51-75	2	0
76-100	3	0
101-150	4	1
151+	4% (MIN.) OF TOTAL	5% (MIN.) OF TOTAL

THIS CATEGORY APPLIES

ELECTRIC VEHICLE PARKING SPACE NOTES

ALL PROPOSED ELECTRIC VEHICLE PARKING SPACES (DESIGNATED AS EV ON PLANS) SHALL BE EITHER 'EVSE' (ELECTRIC VEHICLE SUPPLY/SERVICE EQUIPMENT) SPACES WITH ALL CHARGING EQUIPMENT/CABLES WIRED AND INSTALLED OR 'MAKE READY' SPACES WITH ALL ELECTRICAL INFRASTRUCTURE PRE-WIRED TO THE PROPOSED PARKING SPACE LOCATION, FOR LEVEL 2 EVSE AND DIRECT CURRENT FAST CHARGERS. ALL 'MAKE READY' PARKING SPACES TO BE FULLY UPGRADED TO 'EVSE' SPACES WITHIN 6 YEARS OF INITIAL CERTIFICATE OF OCCUPANCY FOR PROPOSED BUSINESS.

PARKING REQUIREMENTS

PARKING SPACE SIZE - 9 FT. X 20 FT OR 10 FT. X 18 FT.

EXISTING BUILDING - 1,943 G.E.A.

FIRST FLOOR - OFFICE AREA (1,079 S.F.)	4.5 P.S. PER 1,000 S.F.	1,079 S.F. / 1,000 S.F. X 4.5	= 5 SPACES REQUIRED
SECOND FLOOR - STORAGE AREA (864 S.F.)	NONE REQUIRED		= 0 SPACES REQUIRED

PROPOSED BUILDING - 10,010 G.E.A.

FIRST FLOOR - WAREHOUSE (10,010 S.F.)	1 P.S. PER EMPLOYEE	4 EMPLOYEES	= 4 SPACES REQUIRED
TOTAL			9 SPACES REQUIRED

PARKING PROVIDED

VAN ACCESSIBLE HANDICAP SPACE - 8 FT. X 20 FT.	2 SPACES PROVIDED
STANDARD PARKING SPACE - 9 FT. X 20 FT.	23 SPACES PROVIDED
STANDARD EVSE PARKING SPACE* - 9 FT. X 20 FT.	2 SPACES PROVIDED*
TOTAL	27 SPACES PROVIDED

*PER 2021 MODEL STATEWIDE MUNICIPAL ELECTRIC VEHICLE (EV) ORDINANCE, A VEHICLE PARKING SPACE DESIGNATED AS ELECTRIC VEHICLE SUPPLY/SERVICE EQUIPMENT (EVSE) OR MAKE READY SHALL COUNT AS AT LEAST 2 PARKING SPACES FOR THE PURPOSE OF COMPLYING WITH A MINIMUM PARKING SPACE REQUIREMENT.

LOADING SPACE REQUIREMENTS

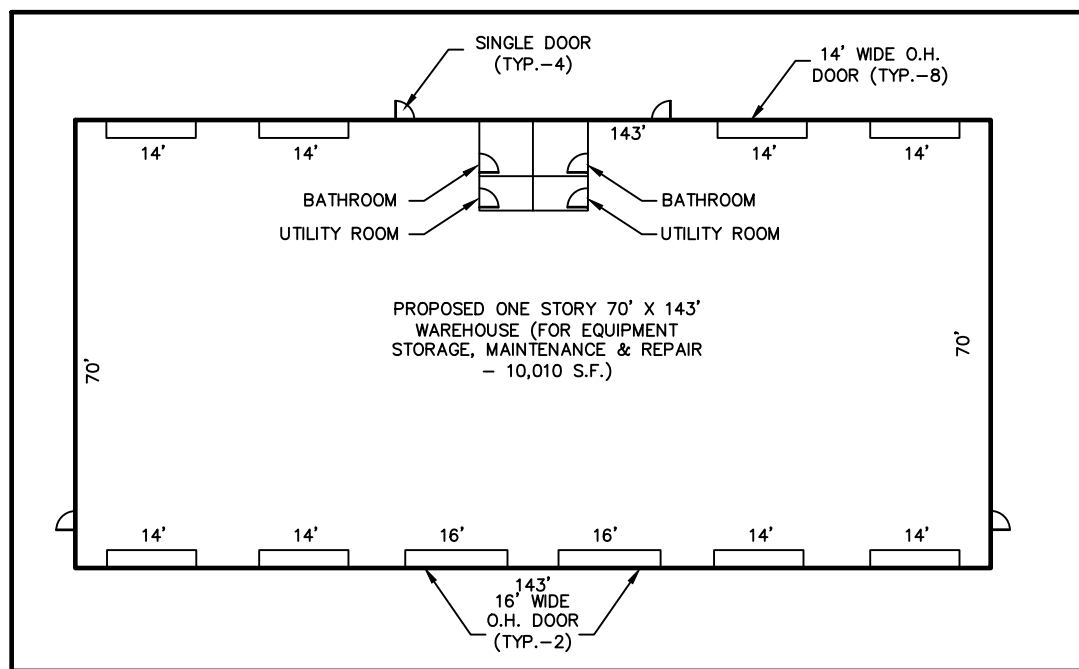
REQUIRED - 1 SPACE - 10' X 60'

LOADING SPACE PROVIDED

PROVIDED - 1 SPACE - 10' X 60'

NOTE

CONDITIONS SHOWN ON ADJACENT LOT 4 BLOCK 9303 PER RECENT APPROVED SITE PLAN AND SUBDIVISION PROPOSED IMPROVEMENTS PER PLANS TITLED MINOR SUBDIVISION AND PRELIMINARY SITE PLANS BY CIVIL ENGINEERING, INC., JAMES G. GLASSON, N.J.P.E. 37703, DATED 11/20/19, LAST REVISED 6/10/22, AS APPROVED BY ROXBURY TOWNSHIP, RESOLUTION #28A-20-004, APPROVED 5/9/22, MEMORIALIZED 7/11/22



PROPOSED BUILDING DIMENSIONS
SCALE: 1" = 30'

REVISE PER 3-11-23 BOARD ENGINEER'S REPORT, 3-10-23 DIRECTOR OF PLANNING REPORT, 3-13-23 HABITAT BY DESIGN REPORT, 10-11-22 MCOSS COMMENTS, 1. AND 9-21-23 PUBLIC HEARING

Rev. No. Description By Date

CIVIL ENGINEERING, INC.

1 COVE STREET
BUDD LAKE, N.J. 07828
Telephone: (973) 426-1776
Fax: (973) 426-0716
N.J. - C of A #24GA27922000

JAMES G. GLASSON
PROFESSIONAL ENGINEER, N.J. LIC. NO. 37703

PROPOSED SITE PLAN

FOR:
LOTS 16, 16.03,
19 & 20 BLOCK 4200
'OLD LEDGEWOOD ROAD'

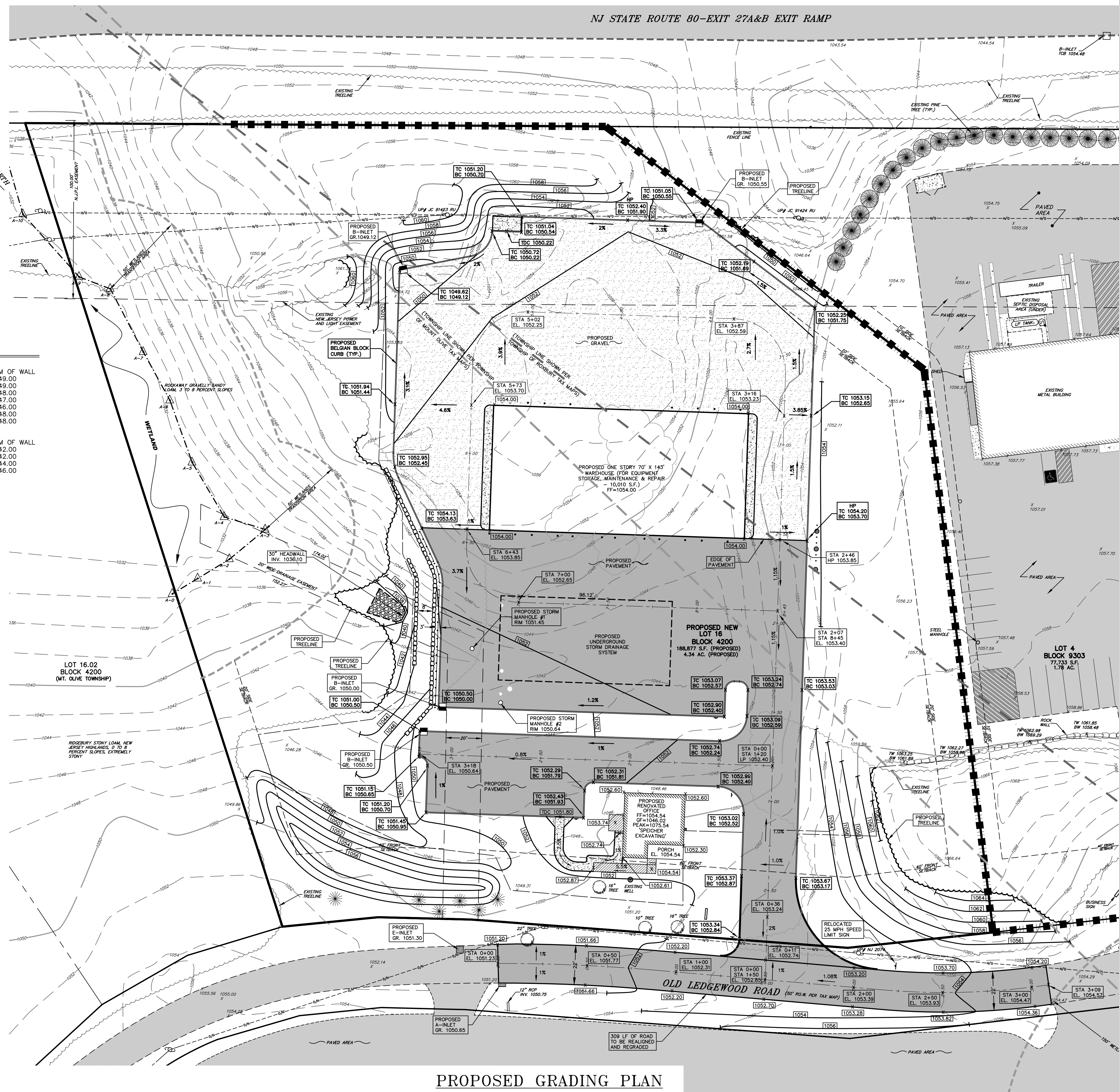
TOWNSHIP OF MOUNT OLIVE
MORRIS COUNTY, NEW JERSEY

Checked By: JG Date: 9/15/22
Drawn By: WBB Project No: 5332

RETAINING WALL GRADES

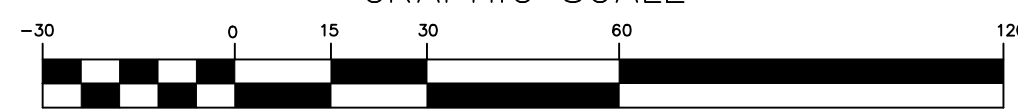
PROPOSED ROCK WALL #1 - 155LF		
POINT No.	TOP OF WALL	BOTTOM OF WALL
A	TW 1052.50	BW 1049.00
B	TW 1053.00	BW 1048.00
C	TW 1052.00	BW 1048.00
D	TW 1051.00	BW 1047.00
E	TW 1050.00	BW 1046.00
F	TW 1050.00	BW 1048.00

PROPOSED ROCK WALL #2 - 60LF		
POINT No.	TOP OF WALL	BOTTOM OF WALL
H	TW 1045.00	BW 1042.00
I	TW 1046.00	BW 1042.00
J	TW 1046.50	BW 1044.00
K	TW 1047.00	BW 1046.00



PROPOSED GRADING PLAN

GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.

PROPOSED BUILDING HEIGHT CALCULATION - OFFICE

- 1.) THE VERTICAL DISTANCE FROM THE AVERAGE FINISHED GRADE FIVE (5) FEET FROM THE FOUNDATION TO THE LEVEL OF THE HIGHEST POINT OF THE ROOF SURFACE.

$$\frac{1052.50 + 1052.75 + 1052.30 + 1052.45}{4} = \text{EL. } 1052.50$$
- 2.) PEAK ELEVATION = EL. 1075.54
- 3.) BUILDING HEIGHT = PEAK ELEVATION - AVERAGE GRADE

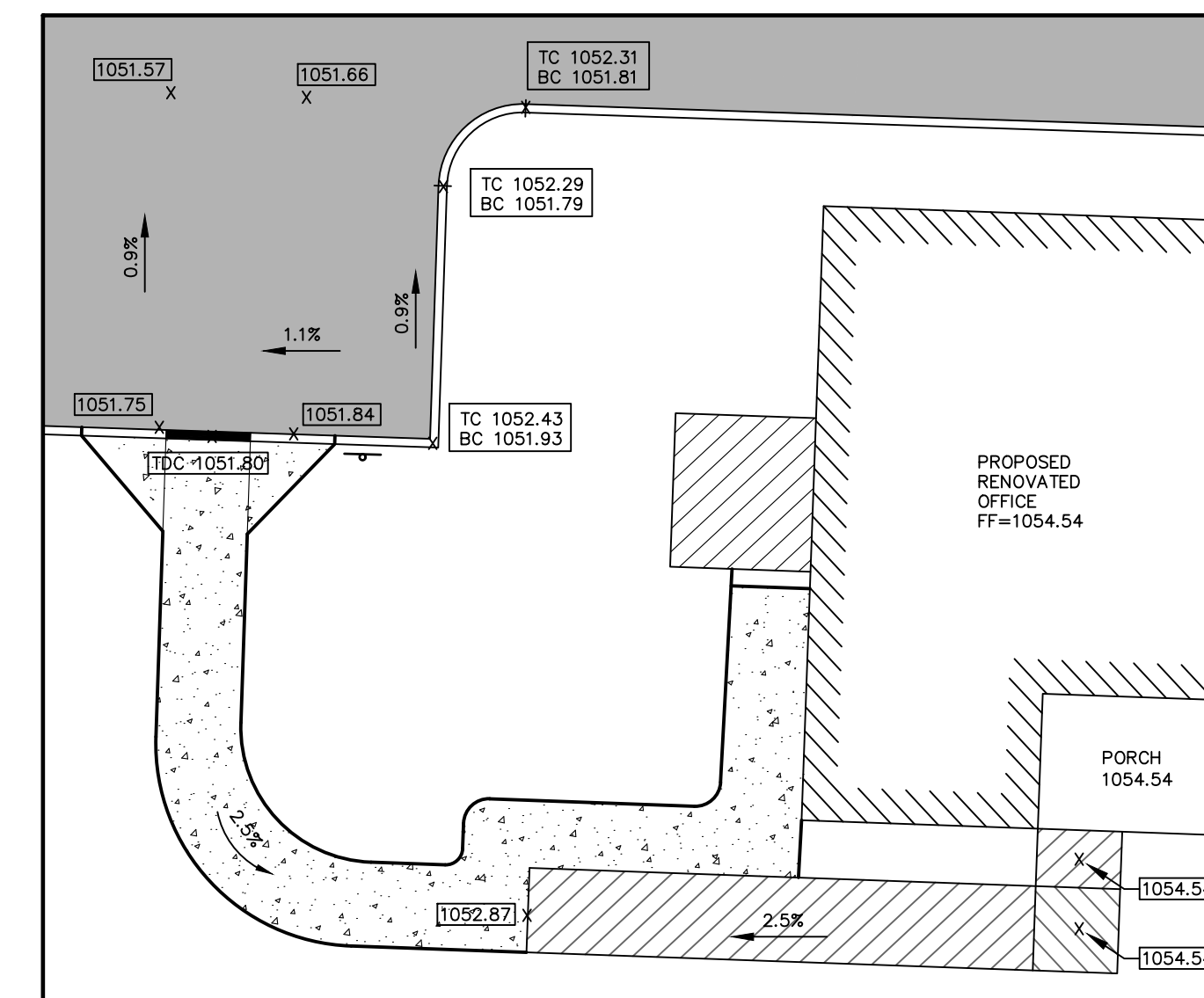
$$= \text{EL. } 1075.54 - \text{EL. } 1052.50 = 23.04 \text{ FT.}$$

PROPOSED BUILDING HEIGHT CALCULATION - WAREHOUSE

- 1.) THE VERTICAL DISTANCE FROM THE AVERAGE FINISHED GRADE FIVE (5) FEET FROM THE FOUNDATION TO THE LEVEL OF THE HIGHEST POINT OF THE ROOF SURFACE.

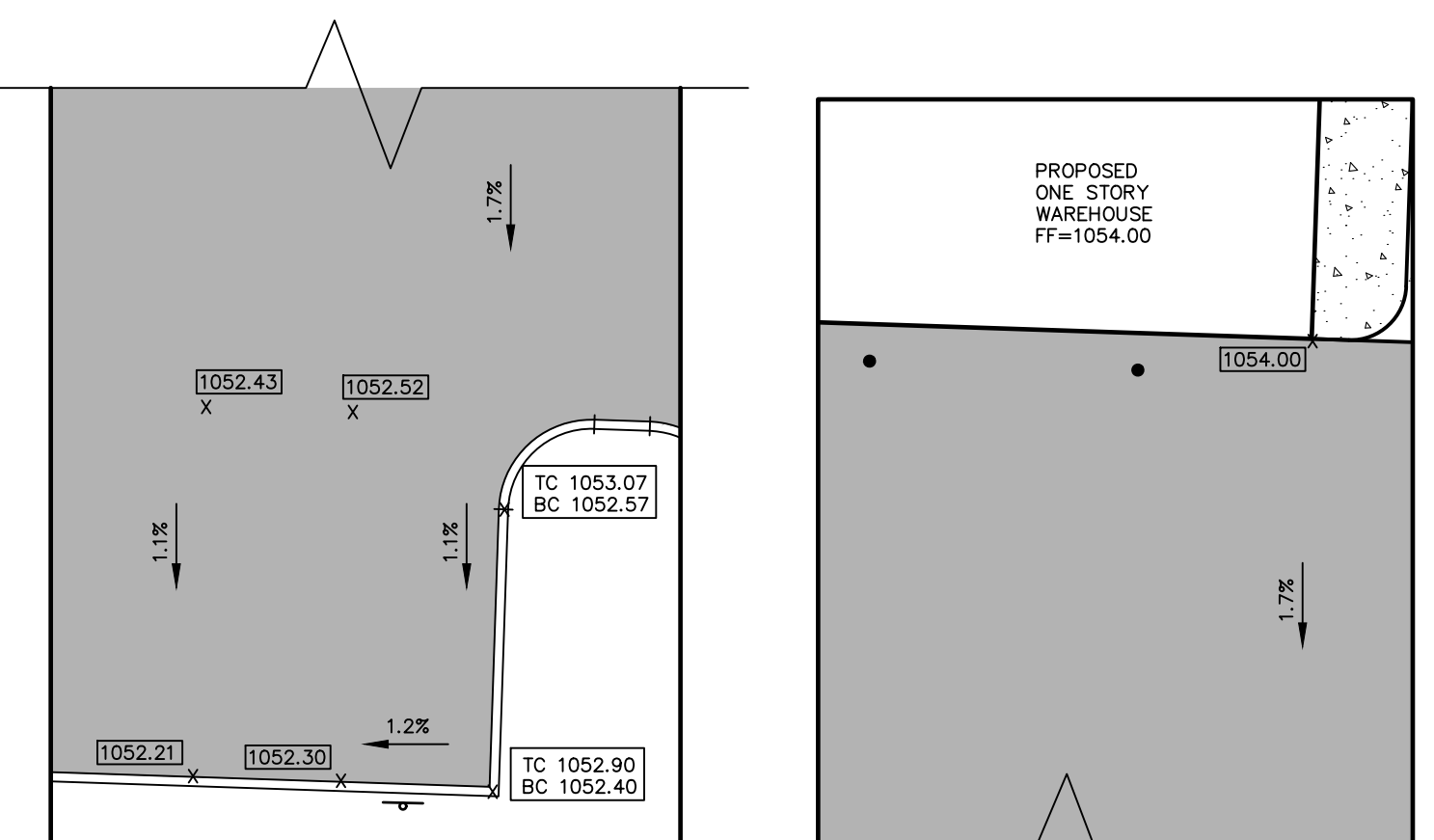
$$\frac{1053.90 + 1053.90 + 1053.82 + 1053.93}{4} = \text{EL. } 1053.88$$
- 2.) PEAK ELEVATION = FF + 29.25 FT. = EL. 1054.00 + 29.25 FT. = EL. 1083.25
- 3.) BUILDING HEIGHT = PEAK ELEVATION - AVERAGE GRADE

$$= \text{EL. } 1083.25 - \text{EL. } 1053.88 = 29.37 \text{ FT.}$$



HANDICAP ACCESSIBLE PATH TO OFFICE DETAIL

SCALE: 1" = 10'



HANDICAP ACCESSIBLE PATH TO WAREHOUSE DETAIL

SCALE: 1" = 10'

NOTE

CONDITIONS SHOWN ON ADJACENT LOT 4 BLOCK 9303 PER RECENT APPROVED SITE PLAN AND SUBDIVISION PROPOSED IMPROVEMENTS PER PLANS TITLED MINOR SUBDIVISION AND PRELIMINARY SITE PLANS BY CIVIL ENGINEERING, INC., JAMES G. GLASSON, N.J.E. 37703, DATED 11/20/19, LAST REVISED 6/10/22, AS APPROVED BY ROXBURY TOWNSHIP, RESOLUTION #2BA-20-004, APPROVED 5/9/22, MEMORIALIZED 7/11/22

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N.J. - C of A #24GA2792000

JAMES G. GLASSON
PROFESSIONAL ENGINEER, N.J. LIC. NO. 37703

PROPOSED GRADING PLAN

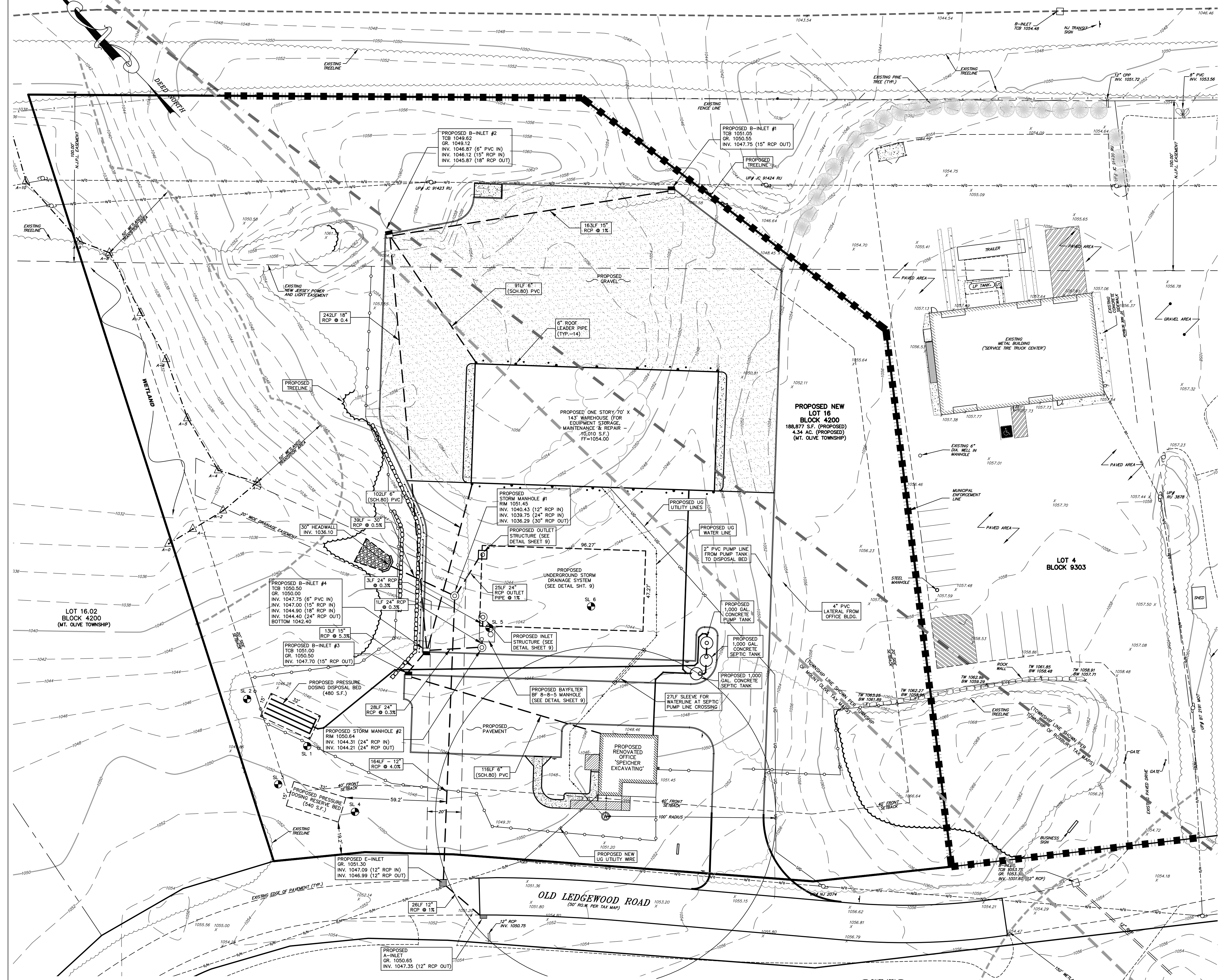
FOR:
LOTS 16, 16.03,
19 & 20 BLOCK 4200
'OLD LEDGEWOOD ROAD'

TOWNSHIP OF MOUNT OLIVE
MORRIS COUNTY, NEW JERSEY

Checked By: JG Date: 9/15/22
Drawn By: WBB Project No: 5332

SHEET 7 OF 19

NJ STATE ROUTE 80-EXIT 27A&B EXIT RAMP



PROPOSED UTILITY PLAN

GRAPHIC SCALE



(IN FEET)

1 inch = 30 ft.

UTILITY NOTES:

- CONTRACTOR TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- REFUSE PICKUP (TRASH & RECYCLABLES) TO BE CONTRACTED BY A PRIVATE HAULER.
- WATER TO BE PROVIDED TO THE NEW BUILDING BY A PROPOSED NEW CONNECTION TO THE EXISTING PRIVATE WELL, LOCATED IN THE FRONT YARD.
- SANITARY SEWERAGE TO BE PROVIDED BY A SINGLE PROPOSED NEW SEPTIC DISPOSAL SYSTEM FOR BOTH THE EXISTING AND PROPOSED BUILDINGS. APPLICATION TO BE MADE TO THE MOUNT OLIVE HEALTH DEPARTMENT (UNDER SEPARATE COVER) FOR APPROVAL.
- ELECTRIC, CATV & PHONE TO BE PROVIDED BY PROPOSED UNDERGROUND LINE(S) FROM THE EXISTING UTILITY POLE LOCATED IN THE OLD LEDGEWOOD ROAD RIGHT OF WAY.
- SOIL LOGS PERFORMED ON JUNE 9, 2020 BY JAMES GLASSON, P.E. #37703 OF CIVIL ENGINEERING INC., AND WITNESSED BY BOB STAHLHUT OF THE MOUNT OLIVE HEALTH DEPARTMENT.

SEPTIC REQUIREMENTS

PROPOSED OFFICE (1,079 S.F.)
1ST FLOOR = 1,079 S.F. OFFICE AREA @ 0.125 GAL./S.F. 1,079 X 0.125 = 134.87 GAL./DAY
2ND FLOOR = 840 S.F. STORAGE 0.00 GAL./DAY
PROPOSED WAREHOUSE (10,010 S.F.)
4 EMPLOYEES @ 15 GAL./DAY EA. 4 X 15 = 60.00 GAL./DAY
198.87 GAL./DAY

BED AREA REQUIRED [USE 350 GAL./DAY MINIMUM PER N.J.A.C. 7:9A-7.4]
350 GAL./DAY X 1.33 (STATE FACTOR FOR PUMP SYSTEM) = 465.50 S.F. BED AREA REQUIRED
480 S.F. PROPOSED (15 FT. X 32 FT.)

SEPTIC TANK SIZE REQUIRED

350 GAL./DAY X 1.5 = 525 GALLON SEPTIC TANK REQUIRED
1,000 GALLON SEPTIC TANK PROPOSED (2)

PUMP TANK SIZE REQUIRED

DOSE VOLUME = 250 = 87.50 GALLONS
RESERVE VOLUME = 350.00 GALLONS
151.30 GALLONS IN DELIVERY LINE
588.80 GALLON PUMP TANK REQUIRED
1,000.0 GALLON PUMP TANK PROPOSED

SEPTIC PROVIDED

PROPOSED TWO 1,000 GAL. CONCRETE SEPTIC TANKS AND 1,000 GALLON CONCRETE PUMP TANK WITH A PRESSURE DOSING 480 S.F. SEPTIC BED AREA.

SOIL LOGS 1, 2, 3 & 4 FOR SEPTIC SYSTEM DESIGN

SOIL LOG 1 - PERFORMED JUNE 9, 2020 0' - 10' TOPSOIL, 10YR 3/3 10' - 47' SANDY CLAY LOAM, 10YR 5/8 10% GRAVEL, 5% COBBLE, 5% STONE SUBANGULAR BLOCKY, FRIABLE	SOIL LOG 3 - PERFORMED JUNE 9, 2020 0' - 47' FILL 47' - 62' ORIGINAL TOPSOIL, 10YR 3/3 62' - 95' SANDY CLAY LOAM, 10YR 5/8 10% GRAVEL, 10% COBBLE, 5% STONE SUBANGULAR BLOCKY, FRIABLE
47' - 132' SANDY LOAM, 10YR 5/6 15% GRAVEL, 10% COBBLE, 5% STONE SINGLE GRAIN, LOOSE	95' - 147' SANDY LOAM, 10YR 5/8 15% GRAVEL, 10% COBBLE, 10% STONE SINGLE GRAIN, LOOSE
ROOTS TO BOTTOM SAMPLE @ 53" NO WATER, NO SEEPAGE, NO MOTTLING, NO LEDGE	ROOTS TO 95" SAMPLE @ 101" NO WATER, NO SEEPAGE, NO MOTTLING, NO LEDGE
SOIL LOG 2 - PERFORMED JUNE 9, 2020 0' - 12' TOPSOIL, 10YR 3/3 12' - 55' SANDY CLAY LOAM, 10YR 5/8 10% GRAVEL, 5% COBBLE, 2% STONE SUBANGULAR BLOCKY, FRIABLE	SOIL LOG 4 - PERFORMED JUNE 9, 2020 0' - 68' FILL 68' - 78' SANDY CLAY LOAM, 10YR 5/8 10% GRAVEL, 5% COBBLE, 5% STONE SUBANGULAR BLOCKY, FRIABLE
55' - 150' SANDY LOAM, 10YR 5/6 20% GRAVEL, 5% COBBLE, 2% STONE SINGLE GRAIN, LOOSE	78' - 108' SANDY CLAY LOAM, 10YR 5/8 10% GRAVEL, 5% COBBLE, 5% STONE SUBANGULAR BLOCKY, FRIABLE
ROOTS TO BOTTOM SAMPLE @ 61" NO WATER, NO SEEPAGE, NO MOTTLING, NO LEDGE	108' - 158' SANDY LOAM, 10YR 5/6 15% GRAVEL, 10% COBBLE, 10% STONE SINGLE GRAIN, LOOSE
	ROOTS TO BOTTOM SAMPLE @ 114" NO WATER, NO SEEPAGE, NO MOTTLING, NO LEDGE

SOIL LOGS 5 & 6 FOR INFILTRATION AREA

SOIL LOG 5 - PERFORMED JUNE 9, 2020 0' - 23' TOPSOIL, 10YR 3/1 23' - 45' SANDY CLAY LOAM, 10YR 5/8 10% GRAVEL, 5% COBBLE, 5% STONE SUBANGULAR BLOCKY, FRIABLE	SOIL LOG 6 - PERFORMED JUNE 9, 2020 0' - 24' TOPSOIL, 10YR 3/1 24' - 54' SANDY CLAY LOAM, 10YR 5/8 10% GRAVEL, 5% COBBLE, 5% STONE SUBANGULAR BLOCKY, FRIABLE
45' - 136' SANDY LOAM, 10YR 5/6 20% GRAVEL, 10% COBBLE, 2% STONE SINGLE GRAIN, LOOSE	54' - 140' SANDY CLAY LOAM, 10YR 5/8 10% GRAVEL, 5% COBBLE, 5% STONE SUBANGULAR BLOCKY, FRIABLE
ROOTS TO BOTTOM SAMPLE @ 51" SEEPAGE @ 102" PERC @ 51" - RESULT - 8.7 IN./HR. MOTTLING @ 100" - BOTTOM - FEW, MEDIUM, DISTINCT 2.5Y 7/1 NO WATER, NO LEDGE	ROOTS TO BOTTOM SAMPLE @ 60" SEEPAGE @ 104" PERC @ 60" - RESULT - 8.3 IN./HR. MOTTLING @ 102" - BOTTOM - FEW, MEDIUM, DISTINCT 2.5Y 7/1 TO 5YR 5/8 NO WATER, NO LEDGE

NOTE

CONDITIONS SHOWN ON ADJACENT LOT 4 BLOCK 9303 PER RECENT APPROVED SITE PLAN AND SUBDIVISION PROPOSED IMPROVEMENTS PER PLANS TITLED MINOR SUBDIVISION AND PRELIMINARY SITE PLANS BY CIVIL ENGINEERING, INC., JAMES G. GLASSON, N.J.P.E. 37703, DATED 11/20/19, LAST REVISED 6/10/22, AS APPROVED BY ROXBURY TOWNSHIP, RESOLUTION #28A-20-004, APPROVED 5/9/22, MEMORIALIZED 7/11/22

Rev. No.	Description	By	Date
1	REVISE PER 3-11-23 BOARD ENGINEER'S REPORT, 3-10-23 DIRECTOR OF PLANNING REPORT, 3-13-23 HABITAT BY DESIGN REPORT, 10-11-22 MDCSD COMMENTS, 1. AND 9-21-23 PUBLIC HEARING	WBB/CWH	10/27/23

CIVIL ENGINEERING, INC.

1 COVE STREET
BUDD LAKE, N.J. 07828
Telephone: (973) 426-1776
Fax: (973) 426-0716
N.J. - C of A #24GA27922000

JAMES G. GLASSON
PROFESSIONAL ENGINEER, N.J. LIC. NO. 37703

SHEET 8 OF 19

PROPOSED UTILITY PLAN

FOR:

LOTS 16, 16.03,

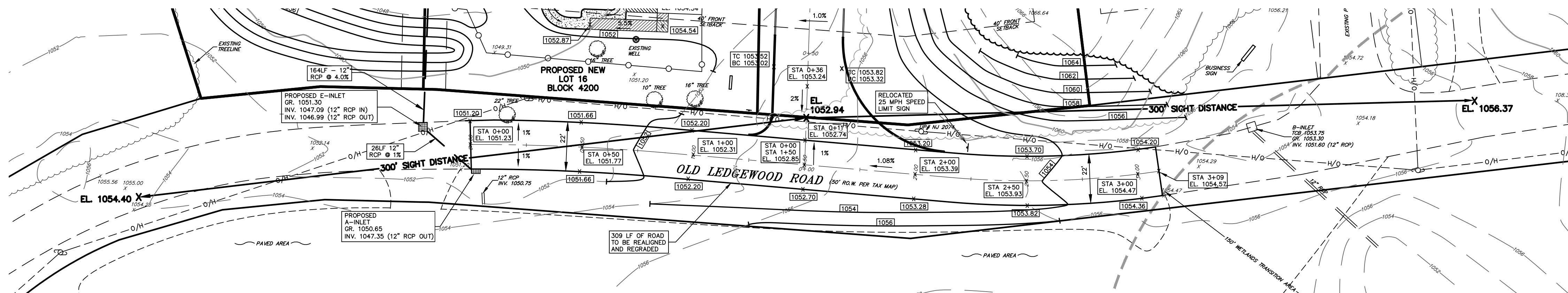
19 & 20 BLOCK 4200

'OLD LEDGEWOOD ROAD'

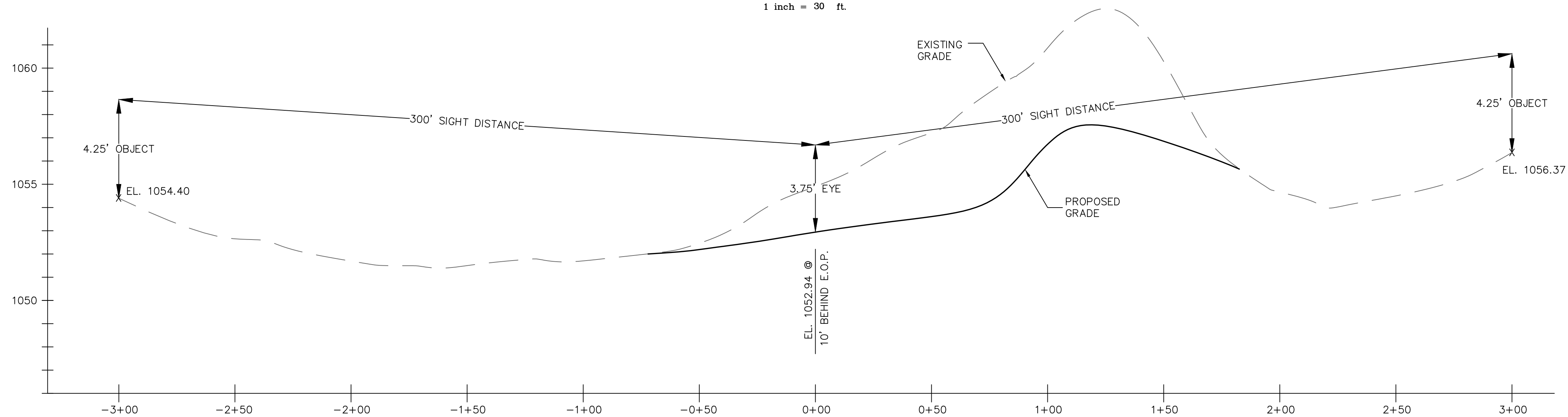
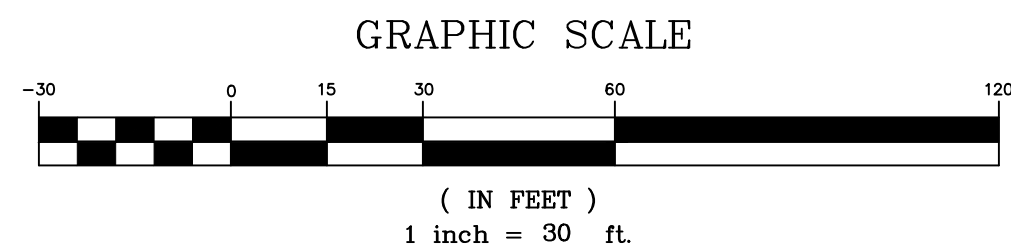
TOWNSHIP OF MOUNT OLIVE

MORRIS COUNTY, NEW JERSEY

Checked By:	JG	Date:	9/15/22
Drawn By:	WBB	Project No:	5332

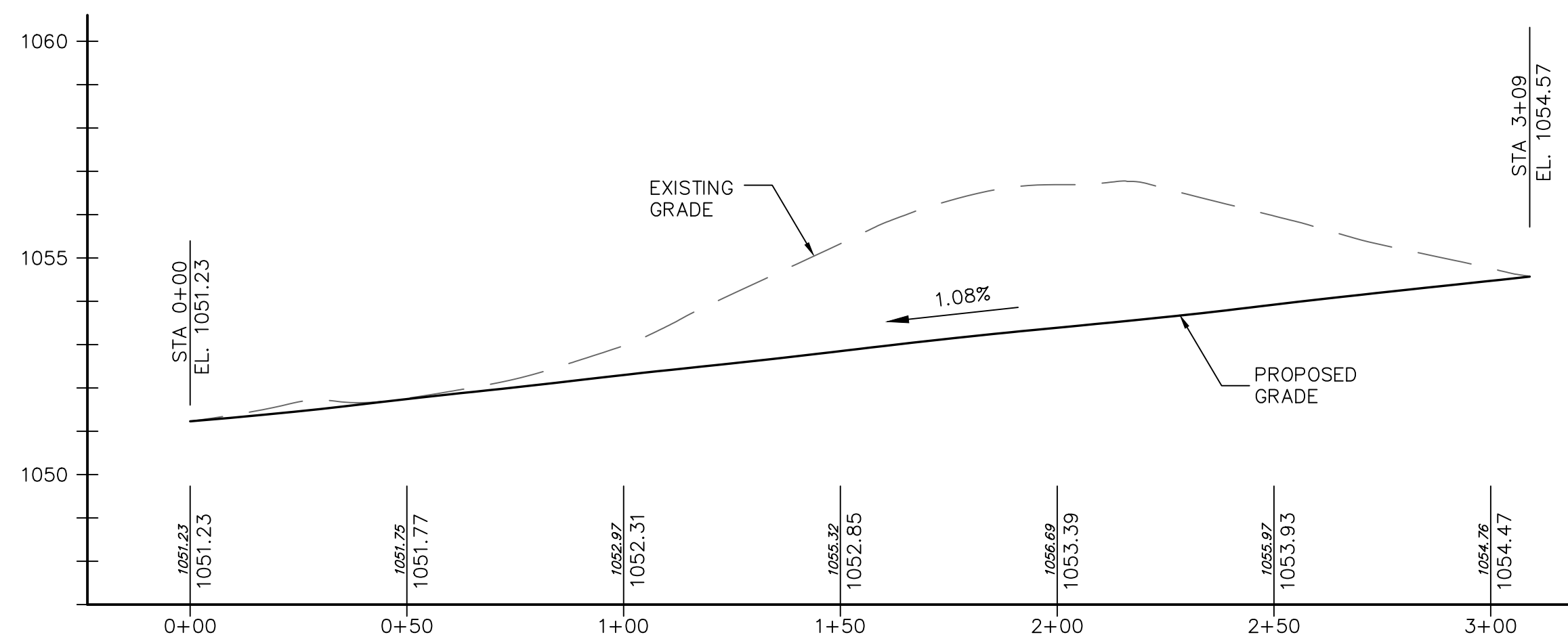


PROPOSED SITE ACCESS & OLD LEDGEWOOD ROAD RECONSTRUCTION PLAN



SIGHT DISTANCE PROFILE AT SITE ACCESS

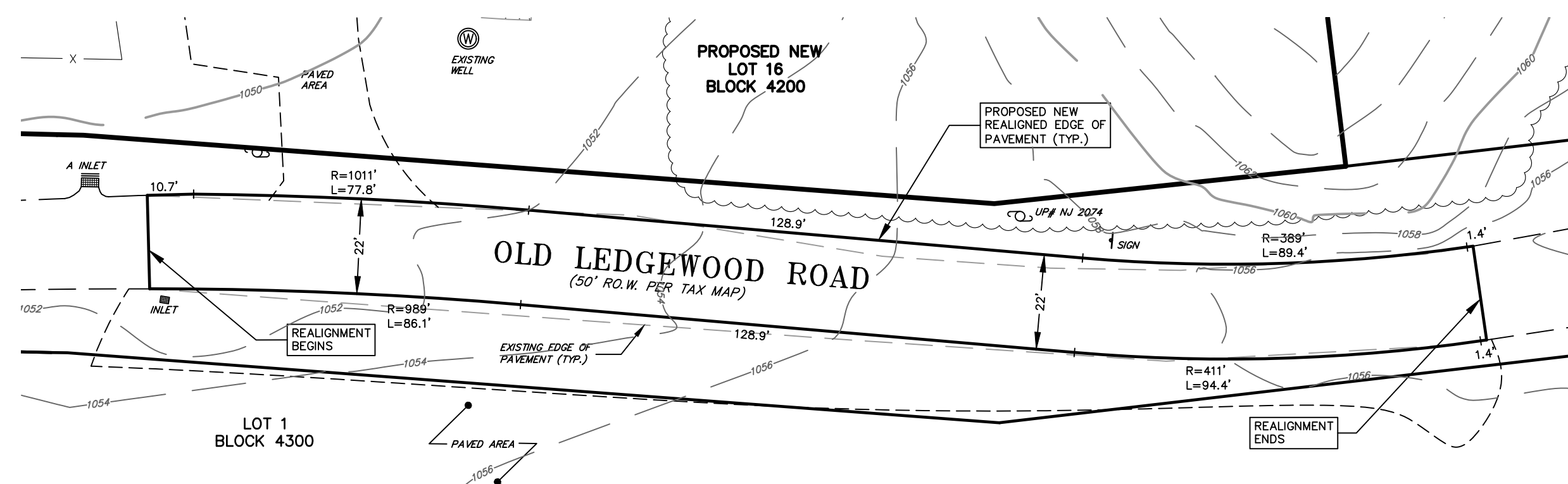
SCALE 1" = 30' HORIZ. 25MPH ZONE REQUIRES 300 FT. SIGHT DISTANCE IN EACH DIRECTION.
1" = 3' VERT.



REALIGNED AND REGRADED ROAD PROFILE OF SECTION OF OLD LEDGEWOOD ROAD.

STA 0+00 TO STA 3+09

SCALE 1" = 30' HORIZ.
1" = 3' VERT.



OLD LEDGEWOOD ROAD REALIGNMENT DETAIL

(N.T.S.)

REVISE PER 3-11-23 BOARD ENGINEER'S REPORT, 3-10-23 DIRECTOR OF PLANNING REPORT, 3-13-23 HABITAT BY DESIGN REPORT, 10-11-22 MDCSD COMMENTS, 1. AND 9-21-23 PUBLIC HEARING WBB/CWH 10/13/23

Rev. No. Description By Date

CIVIL ENGINEERING, INC.

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JAMES G. GLASSON
PROFESSIONAL ENGINEER, N.J. LIC. NO. 37703

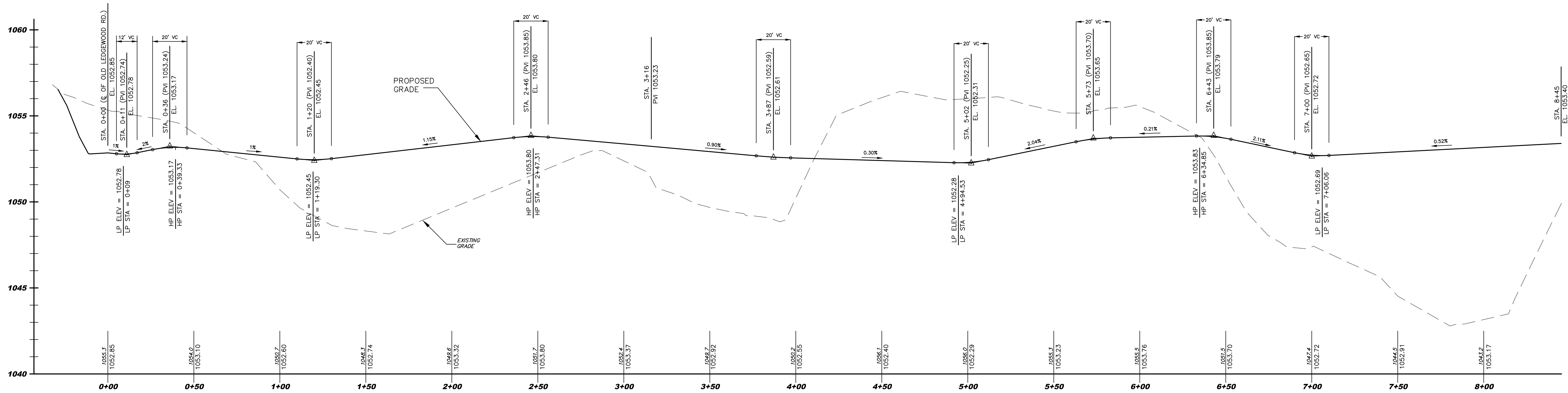
SHEET 11 OF 19
SITE ACCESS & OLD LEDGEWOOD ROAD REALIGNMENT PLAN

FOR:
LOTS 16, 16.03,
19 & 20 BLOCK 4200
'OLD LEDGEWOOD ROAD'

TOWNSHIP OF MOUNT OLIVE
MORRIS COUNTY, NEW JERSEY

Checked By: JG Date: 9/15/22
Drawn By: WBB Project No: 5332

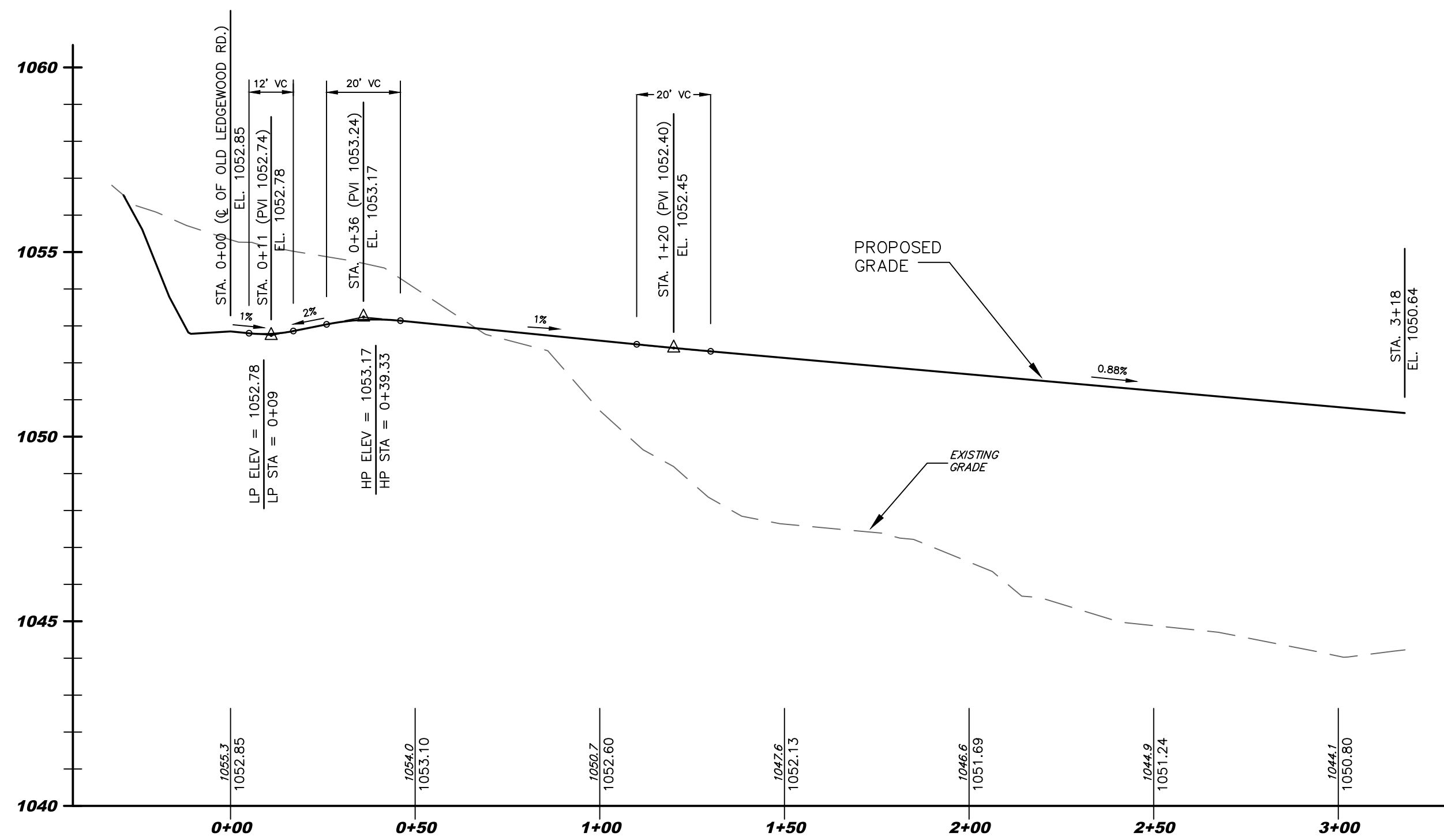
U:\3332 - Spetcher-Old Ledgewood Rd-Mt Olive.dwg Site Plan Rev 1\3332-12 Profiles Rev 1.dwg PS: Civil Inc.ctb



DRIVEWAY PROFILE - STA 0+00 TO STA 8+45 (UPPER PARKING LOT)

SCALE 1" = 30' HORIZ.
1" = 3' VERT.

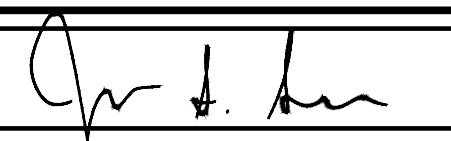
NOTE:
CHANGES IN VERTICAL GRADES SHALL BE MADE WITH SMOOTH VERTICAL CURVES
NOT LESS THAN (12) FEET IN LENGTH



DRIVEWAY PROFILE - STA 0+00 TO STA 3+18 (LOWER PARKING LOT)

SCALE 1" = 30' HORIZ.
1" = 3' VERT.

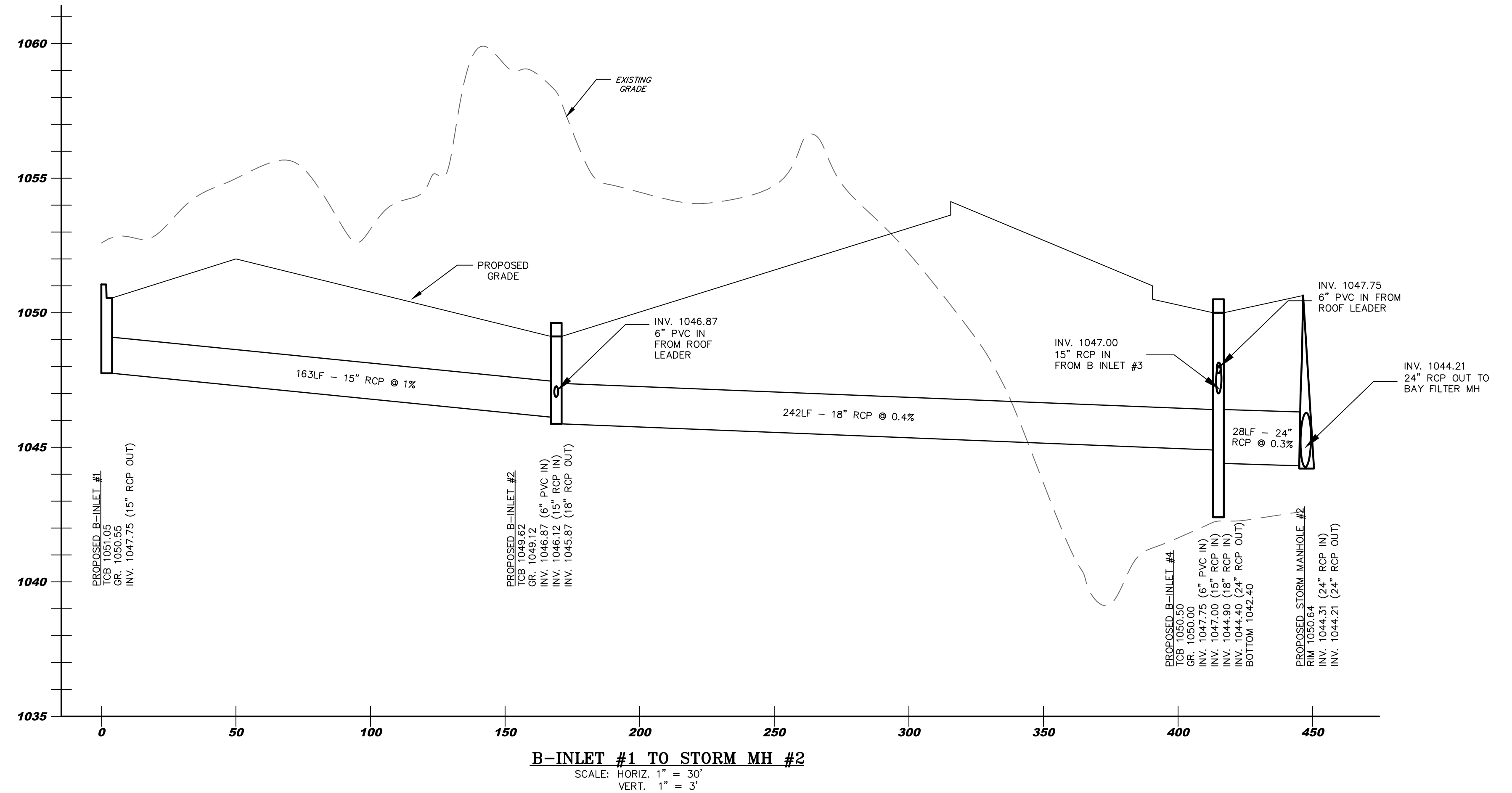
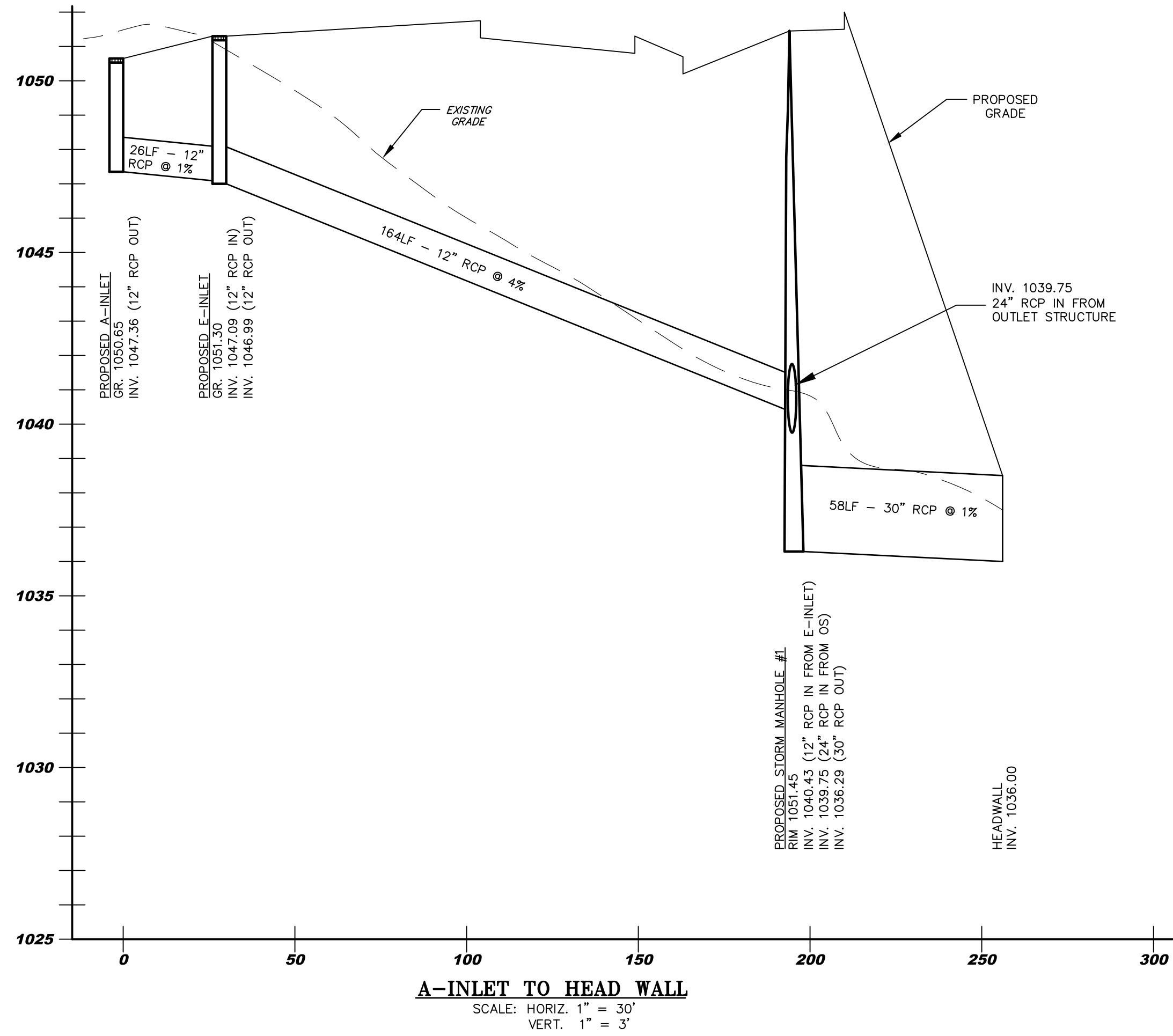
NOTE:
CHANGES IN VERTICAL GRADES SHALL BE MADE WITH SMOOTH VERTICAL CURVES
NOT LESS THAN (12) FEET IN LENGTH


JAMES G. GLASSON
PROFESSIONAL ENGINEER, N.J. LIC. NO. 37703

REVISE PER 3-11-23 BOARD ENGINEER'S REPORT, 3-10-23 DIRECTOR OF PLANNING REPORT, 3-13-23 HABITAT BY DESIGN REPORT, 10-11-22 MDCSD COMMENTS, 1. AND 9-21-23 PUBLIC HEARING			
Rev. No.	Description	By	Date
CIVIL ENGINEERING, INC.			
1 COVE STREET BUDD LAKE, N.J. 07828 Telephone: (973) 426-1776 Fax: (973) 426-0716 N.J. - C of A #24GA27922000			

SHEET 12 OF 19	
DRIVEWAY PROFILES FOR: LOTS 16, 16.03, 19 & 20 BLOCK 4200 'OLD LEDGEWOOD ROAD' TOWNSHIP OF MOUNT OLIVE MORRIS COUNTY, NEW JERSEY	
Checked By: JG	Date: 9/15/22
Drawn By: WBB	Project No: 5332

U:\5332 - Spetcher-Old Ledgewood Rd-Mt Olive.dwg Site Plan Rev 1\5332-13 Storm Profiles Rev 1.dwg PS: Civil Inc.ctb



JAMES G. GLASSON
PROFESSIONAL ENGINEER, N.J. LIC. NO. 37703

REVISE PER 3-11-23 BOARD ENGINEER'S REPORT, 3-10-23 DIRECTOR OF PLANNING REPORT, 3-13-23 HABITAT BY DESIGN REPORT, 10-11-22 MOSCO COMMENTS, 1. AND 9-21-23 PUBLIC HEARING			
Rev. No.	Description	By	Date
WB8/CWH 10/27/23			
CIVIL ENGINEERING, INC.			
1 COVE STREET BUDD LAKE, N.J. 07828 Telephone: (973) 426-1776 Fax: (973) 426-0716 N.J. - C of A #24GA27922000			

SHEET 13 OF 19	
STORM SEWER PROFILES FOR: LOTS 16, 16.03, 19 & 20 BLOCK 4200 'OLD LEDGEWOOD ROAD' TOWNSHIP OF MOUNT OLIVE MORRIS COUNTY, NEW JERSEY	
Checked By: JG	Date: 9/15/22
Drawn By: WBB	Project No: 5332

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AND WILL BE IN PLACE PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ALL EXPOSED AREA THAT IS NOT TO BE DISTURBED FOR MORE THAN 14 DAYS AND NOT SUBJECT TO ANY TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH STRAW OR HAY AND TACKED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS. SEE NOTE 21 BELOW.
3. PERMANENT VEGETATION IS TO BE ESTABLISHED WITHIN 60 (SIXTY) DAYS AFTER FINAL GRADING. MULCH IS TO BE USED FOR PROTECTION UNTIL THE VEGETATION IS ESTABLISHED. SEE NOTE 22 BELOW.
4. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS (STEEP SLOPES, SANDY SOILS, WEAK CONDITIONS) SUBJECT TO EROSION WILL RECEIVE PERMANENT VEGETATION TO BE ESTABLISHED WITHIN 60 (SIXTY) DAYS.
5. TEMPORARY DIVERSION BERM ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS. SEE THE DIVERSION DETAIL.
6. PERMANENT SEEDING SHALL BE INSTALLED IN ACCORDANCE WITH THE "CONSERVATION OF NATURAL RESOURCES ACT" FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION COVER. SPECIFIED RATES AND SEEDING METHODS ARE AS NOTED IN APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.
7. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
8. ALL EXPOSED STRIPS OF SOIL (SILT TRAPS, DISPOSET FILTERS, AND SEDIMENTATION BASINS) WILL BE INSTALLED AND MAINTAINED UNTIL THEY ARE FULLY VEGETATED.
9. STOCKPILES SHALL NOT BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, DRAINAGE FACILITY, OR ROADWAY. ALL STOCKPILE BASES SHALL HAVE A SILT FENCE PROPERLY EXTENDED AT EACH END OF SLOPE.
10. A STABILIZED CONSTRUCTION ACCESS WILL BE INSTALLED, WHENEVER AN EARTHEN ROAD INTERSECTS WITH A PAVED ROAD, SEE THE STABILIZED CONSTRUCTION ACCESS DETAIL.
11. ALL NEW ROADWAYS WILL BE TREATED WITH A SUITABLE SURFACING UPON ESTABLISHMENT OF FINAL GRADE ELEVATIONS.
12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
13. BEFORE DISCHARGE POINTS BECOME OPERATIONAL, ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AS REQUIRED.
14. ALL AVOIDED AREAS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE FILTER SHOULD BE COMPOSED OF A FABRIC ON APPROVED MATERIAL, SEE THE Dewatering Detail.
15. ALL SEDIMENT BASINS WILL BE CLEANED WHEN THE CAPACITY HAS BEEN REDUCED BY 50%. A CLEAN OUT ELEVATION WILL BE IDENTIFIED ON THE PLAN AND A MARKER SHALL BE PLACED AT THE CLEAN OUT ELEVATION.
16. DURING AND AFTER CONSTRUCTION, THE APPLICANT WILL BE RESPONSIBLE FOR THE MAINTENANCE AND UPKEEP OF THE DRAINAGE STRUCTURES, VEGETATIVE COVER, AND ANY OTHER MEASURES DEEMED APPROPRIATE BY THE DISTRICT. SDA RESPONSIBILITY WILL END WHEN COMPLETED WORK IS APPROVED BY THE MORRIS COUNTY SOIL CONSERVATION DISTRICT.
17. ALL TREES OUTSIDE THE DISTURBANCE LIMIT INDICATED ON THE SUBJECT PLAN, OR THOSE TREES WITHIN THE DISTURBANCE AREA WHICH ARE DESIGNATED TO REMAIN AFTER CONSTRUCTION ARE ARE TO BE MAINTAINED AND PROTECTED.
18. THE MORRIS COUNTY SOIL CONSERVATION DISTRICT MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON OR OFF SITE EROSION PROBLEMS DURING CONSTRUCTION.
19. THE MORRIS COUNTY SOIL CONSERVATION DISTRICT MUST BE NOTIFIED, IN WRITING, AT LEAST 72 HOURS PRIOR TO ANY LAND DISTURBANCE, AND A PRE-CONSTRUCTION

- A. APPLY GROUND LIMESTONE AT A RATE OF 90 LBES/1,000 S.F.
 - B. APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBES/1,000 S.F.
 - C. APPLY PERENNIAL RYEGRASS AT A RATE OF 1 LB/1,000 S.F. AND ANNUAL RYEGRASS AT A RATE OF 1 LB/1,000 S.F.
 - D. MULCH STOCKPILE WITH STRAW OR HAY. APPLY A LIQUID MULCH BINDER OR TRAC AT 90 LBES/1,000 S.F.
 - E. APPLY A LIQUID MULCH BINDER OR TRAC TO STRAW OR HAY MULCH.
 - F. PROPERLY ENTRENCH A SILT FENCE AT THE BOTTOM OF THE STOCKPILE.
21. **TEMPORARY STABILIZATION SPECIFICATIONS**
- A. APPLY GROUND LIMESTONE AT A RATE OF 90 LBES/1,000 S.F.
 - B. APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBES/1,000 S.F.
 - C. APPLY PERENNIAL RYEGRASS AT 1 LB/1,000 S.F. AND ANNUAL RYEGRASS AT 1 LB/1,000 S.F.
 - D. MULCH STOCKPILE WITH HAY OR STRAW. APPLY A RATE OF 90 LBES/1,000 S.F.
 - E. APPLY A LIQUID MULCH BINDER OR TRAC TO STRAW OR HAY MULCH.

22. PERMANENT STABILIZATION SPECIFICATIONS
- A. APPLY TOPSOIL TO A DEPTH OF 5" (UNSETTLED).
 - B. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS./1000 SF. AND WORK FOUR INCHES (4") INTO SOIL.
 - C. APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS./1000 S.F.
 - D. APPLY HARD FESCUE AT 2.7 LBS./1000 SF. OR CREeping RED FESCUE 0.7 LBS./1000 SF, AND PERENNIAL RYEGRASS AT 0.25 LBS./1000 SF
 - E. MULCH WITH WOOD OR STRAW. APPLY AT A RATE OF 90 LBS./1000 S.F.
 - F. APPLY LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.

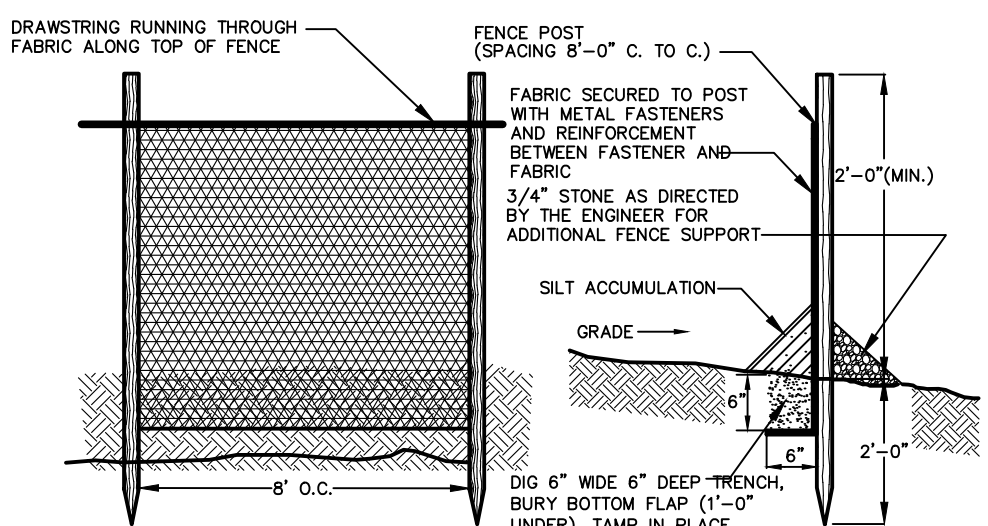


MODEL	A*	B*	C	D	E	F	G	S*	#cylinders
TR1212	13.00	13.00	11.00	11.00	11.00	6.75	3.75	5.5	1
TR12180	\$11.00		\$11.00			6.75	3.75	5.5	1
TR1616	18.00	18.00	14.00	14.00	14.00	6.75	3.75	5.5	1
TR1824	20.00	20.00	17.00	17.00	17.00	10.50	7.25	10.50	1
TR1840	\$20.00		\$20.00			10.50	7.25	10.50	1
TR1818	18.00	25.00	17.00	17.00	17.00	10.50	7.25	10.50	1
TR2024	21.00	25.00	17.00	17.00	17.00	10.50	7.25	10.50	1
TR24424	26.00	26.00	21.00	21.00	14.00	11.00	13.00	1.1	1
TR2480	\$26.00		\$21.00		14.00	11.00	13.00	1.1	1
TR2436	26.00	38.00	17.00	30.00	10.50	7.25	10.50	2	1
TR3030	33.00	33.00	21.00	21.00	14.00	11.00	13.00	1.1	1
TR3636	\$33.00		\$21.00		14.00	11.00	13.00	1.1	1
TR3636	\$40.00		\$40.00		14.00	11.00	22.00	1	TALL
TR2448	26.00	52.00	21.00	42.00	14.00	11.00	13.00	2	1
TR4848	52.00	52.00	42.00	42.00	24.00	20.00	22.00	1	TALL

NOTES:

- 1). ALL DIMENSIONS ARE IN INCHES
- 2). UNITS ARE CONSTRUCTED FROM HIGH DENSITY POLYETHYLENE PLASTIC WITH UV INHIBITORS.
- 3). MEDIA CARTRIDGES CAN BE INTERCHANGED WITH GEOTRAP SERIES AS SITE CONDITIONS CHANGE.
- 4). LOW PROFILE FILTERS ARE ALSO AVAILABLE FOR SHALLOW CATCH BASINS.
- 5). CUSTOM SIZES ARE AVAILABLE TO FIT MOST APPLICATIONS.
- 6). OPTIONAL DOD TRASH GRADERS AVAILABLE.
- 7). DUAL STAGE AND DUAL CAPACITY FILTERS ALSO AVAILABLE.
- 8). DIM 'A' AND 'B' CAN BE TRIMMED TO FIT.
- 9). CUSTOM INSTALL BRACKETS ARE AVAILABLE AS NEEDED.

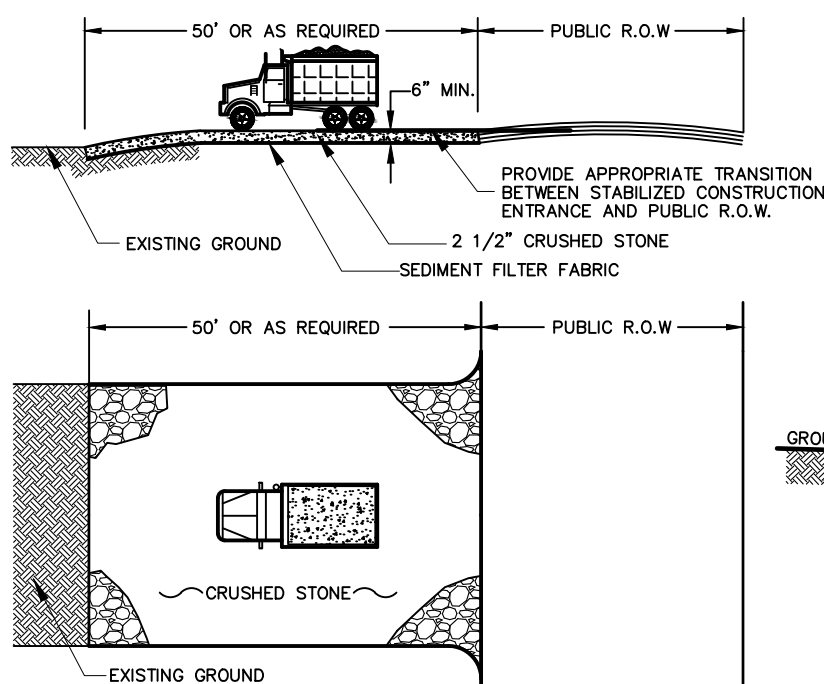
SILT FENCE DETAIL
(N.T.S.)



NOTE

- CLOSER. THEY SHALL EXTEND AT LEAST 2 FT. INTO THE GROUND AND EXTEND AT LEAST 2 FT. BEYOND THE POST. THE GROUND SHALL BE CONSTRUCTED OF HARDWOOD WITH A MINIMUM DIAMETER THICKNESS OF 1-1/2 INCHES.
2. A METAL STRAP SHALL BE INSTALLED THROUGH THE OPENINGS AND AT LEAST 2 FEET HIGH MAY BE USED TO PROVIDE ADDITIONAL SUPPORT. THE STRAP SHALL PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR THE SOIL IS LIMITED. THE STRAP SHALL BE MADE OF STEEL OR HEAVY SEMI RIGID LEXAN. THE STRAP SHALL BE BURRED AT LEAST 6 INCHES DEEP INTO THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET BEYOND THE POST. THE FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF A METAL STRAP AND A SYSTEM OF STEEL OR STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, CORDS, WASHERS, ETC.) PLACED BETWEEN THE FASTENER AND THE FABRIC. THE FASTENERS SHALL BE DESIGNED TO RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

"TRITON" SIZING CHART

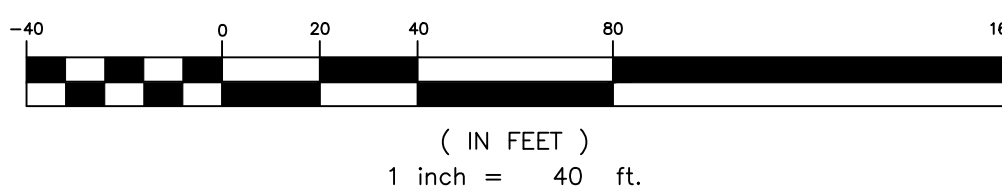


CONSTRUCTION ENTRANCE DETAIL
(N.T.S.)

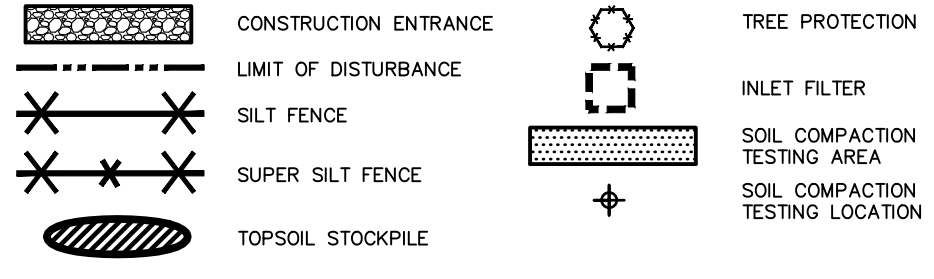
PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COURSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT.	100 FT.
2 TO 5%	100 FT.	200 FT.
> 5%	ENTIRE SURFACE STABILIZED WITH FABC BASE COURSE*	
* AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY		

TEMPORARY CONSTRUCTION FILTER DETAIL
(N.T.S.)

GRAPHIC SCALE



SOIL EROSION LEGEND



SEQUENCE OF CONSTRUCTION

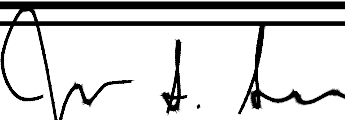
- 1) INSTALL FABRIC FILTER FENCES, AND WHEEL CLEARING APRON.
- 2) REMOVE SECTION OF OLD LEDGEWOOD RD. REGRADE, REALIGN AND REPAVE.
- 3) REMOVE GRAVEL AND STOCKPILE FOR USE AS BASE/FILL.
- 4) REMOVE TREES AND STUMP SITE AS REQUIRED.
- 5) STRIP TOPSOIL, STOCKPILE AND STABILIZE.
- 6) BRING BUILDING AND PARKING AREAS TO ROUGH GRADE, INCLUDING NEW ENTRANCE.
- 7) INSTALL STORM SEWER DRAINAGE SYSTEM.
- 8) INSTALL CATCH BASINS AND PIPING, INCLUDING ALL TRITON CATCH BASIN INERTS. CONNECT TO DRAINAGE SYSTEM.
- 9) BEGIN BUILDING CONSTRUCTION
- 10) INSTALL REMAINING SITE UTILITIES – SEPTIC SYSTEM, WATER LINES, UG ELECTRIC/TELEPHONE, & ROOF DRAIN.
- 11) INSTALL CURBING
- 12) INSTALL POLE MOUNTED LIGHTING
- 13) ADDITIONAL FINE GRADING OF PARKING AREAS.
- 14) INSTALL STABILIZED BASE COURSE WITHIN PARKING AREA AND ENTRANCE
- 15) COMPLETE BUILDING CONSTRUCTION, INCLUDING BUILDING MOUNTED LIGHTS.
- 16) INSTALL REMAINING IMPROVEMENTS INCLUDING FENCE & DUMPSTER PAD.
- 17) FINAL GRADING SITE AND STABILIZATION INCLUDING TOPSOILING
- 18) PAVE UPPER AND LOWER PARKING LOTS
- 19) APPLY GRAVEL TO REAR PARKING AREA AND BRING TO FINAL GRADE.
- 20) REMOVE EXISTING DRIVEWAY, TOPSOIL, SEED & MULCH.
- 21) LANDSCAPING
- 22) REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES AND CLEAN RIP RAP APRON AT H

	TIME FRAME IN DAYS
	2
	14
	5
	2
	5
	7
	10
	14
	10
	21
	5
	5
	3
	2
	20
	5
	21
	5
	3
	2
	2
	3

NOTE

CONDITIONS SHOWN ON ADJACENT LOT 4 BLOCK 9303 PER RECENT APPROVED SITE PLAN AND SUBDIVISION PROPOSED IMPROVEMENTS PER PLANS TITLED MINOR SUBDIVISION AND PRELIMINARY SITE PLANS BY CIVIL ENGINEERING, INC., JAMES G. GLASSON, NJPE 37703, DATED 11/20/19, LAST REVISED 6/10/22, AS APPROVED BY ROXBURY TOWNSHIP, RESOLUTION #ZBA-20-004, APPROVED 5/9/22, MEMORIALIZED 7/11/22

JAMES G. GLASSON
PROFESSIONAL ENGINEER, N.J. LIC. NO. 3770

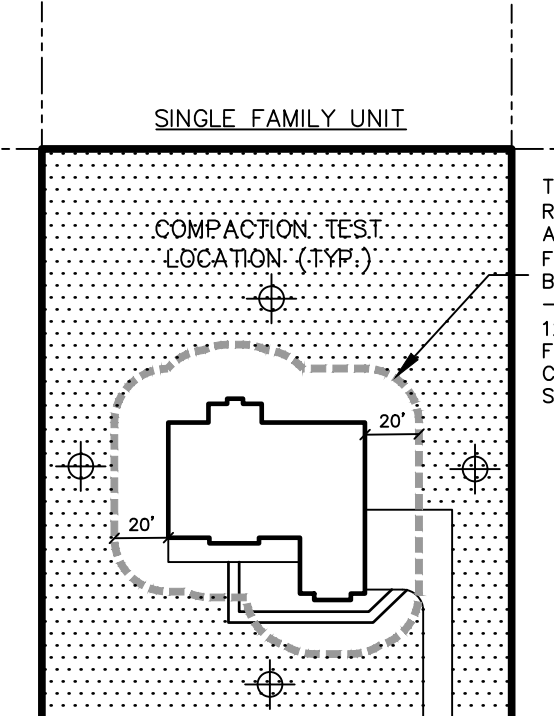


An aerial photograph of a site area, likely a military installation, with yellow lines delineating various zones. The zones are labeled as follows: 'Rc' in the top left, 'UR' in the top right, 'RcB' in the center-left, 'UR' in the middle left, 'HhmoA' in the middle right, 'GArA1' in the bottom left, 'RcB' in the bottom center, and 'Cn' in the bottom right. A road labeled 'Old Ludwood Rv' runs diagonally through the center. A large building complex is circled in black and labeled 'SITE' in bold, black, sans-serif capital letters. Other buildings and structures are visible throughout the site, including a large rectangular building near 'HhmoA' and a smaller building near 'RcB'.

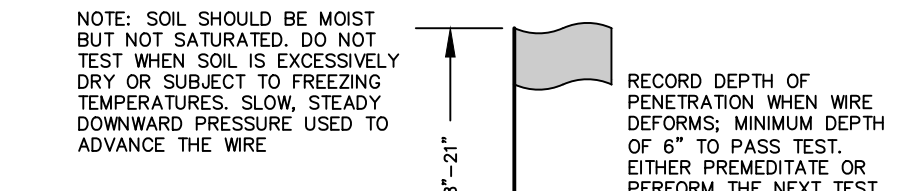
SOIL DE-COMPACTION AND TESTING REQUIREMENTS

- A. SOIL COMPACTION TESTING REQUIREMENTS**
1. SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS)
2. FREE OF FILL OR OTHER MATERIALS THAT COULD INTERFERE WITH THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
3. AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE CERTIFIED SOIL CONTROL PLAN.
4. COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. LOCATION #1'S SHALL BE USED TO COMPLETE THE COMPACTION REMEDIATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CONTRACT FOR COMPACTION.
5. IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE SIMPLIFIED TESTING METHOD (SEE DETAIL C), THE FOLLOWING ACTIONS WILL BE REQUIRED:
- (A) IF THE EXCESSIVE COMPACTION IS DETERMINED TO BE LIMITED TO ONE OR TWO AREAS, THE CONTRACTOR SHALL FIRST ATTEMPT MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXCEPT AREAS), OR (2) PERFORM ADDITIONAL, MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION. IF THE EXCESSIVE COMPACTION IS DETERMINED TO BE WIDESPREAD, ADDITIONAL MITIGATION AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL MITIGATION AREAS SHALL BE PERFORMED BY TRAINED LICENSED PROFESSIONAL.

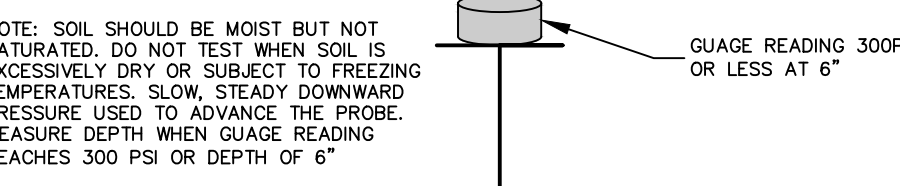
- B. COMPACTION TESTING METHODS
- 1. PROBING WIRE TEST (SEE DETAIL)
 - 2. HANDHELD PENETROMETER TEST (SEE DETAIL)
 - 3. TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL REQUIRED)
 - 4. NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL REQUIRED)
5. NOTE: ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED WITH TOWNSHIP APPROVAL.
6. DETAILED REQUIREMENTS FOR EACH COMPACTION TESTING METHOD CAN BE FOUND IN SECTION 19 "STANDARD FOR LAND GRADING" OF THE N.J. STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION.
7. SOIL COMPACTION TESTING IS NOT REQUIRED IF WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.
- C. PROCEDURES FOR SOIL COMPACTION MITIGATION
- 1. PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
 - 2. RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.) IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED SUBJECT TO TOWNSHIP APPROVAL.



TYPICAL SOIL COMPACTION
TESTING LOCATIONS
N.T.S.



PROBING WIRE TEST
15.5 GA. STEEL WIRE (SURVEY FLAG



HANDHELD SOIL PENETROMETER TEST

DUST CONTROL MATERIALS			
MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GAL/ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM) — SPRAY ON POLYACRYLAMIDE (PAM) — DRY SPREAD	APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO COAGULANT AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD.		
ADULATED SOY BEAN SOAP STOCK	NONE	COARSE SPRAY	1200

TILLAGE – TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPREAD 12 TO 18 INCHES AFTERS, AND SPRING TOOTHED HARROWS ARE EXAMPLES OF OTHERS. THEY PRODUCE THE FOLLOWING EFFECTS:

SPRINKLING – SOIL IS SPRINKLED UNDER THE SURFACE IS WET.

SMOOTHING – SURFACE IS SMOOTHED. THIS REDUCES WINDS, CRATE WINDS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

CALCIUM CHLORIDE – SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH A 10 MESH SIEVE. IT SHOULD BE APPLIED TO SOIL SURFACES MOST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO ADJACENT AREAS.

ACCOMMODATION AROUND PLANTS

SIDING – COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

REVISE PER 3-11-23 BOARD ENGINEER'S REPORT, 3-10-23 DIRECTOR OF PLANNING REPORT, 3-13-23 HABITAT BY DESIGN REPORT, 10-11-22 MSCSD COMMENTS, 1. AND 9-21-23 PUBLIC HEARING			
		WBB/CWH	10/27/23
Rev. No.	Description	By	Date

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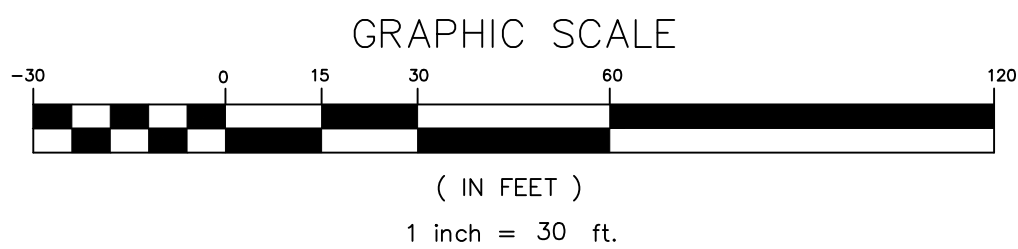
SOIL EROSION & SEDIMENT CONTROL PLAN
FOR:
LOTS 16, 16.03,
19 & 20 BLOCK 4200
'OLD LEDGEWOOD ROAD'
TOWNSHIP OF MOUNT OLIVE
MORRIS COUNTY, NEW JERSEY

Checked By: JG	Date: 9/15/22
Drawn By: WBB	Project No: 5332

U:\5332 - Spetcher-Old Ledgewood Rd-Mt Olive\dwg\Site Plan Rev 15\5332-15 Lighting Plan Rev 1.dwg PLS: Civil Inc.ctb



PROPOSED LIGHTING LAYOUT



LIGHTING NOTES:

- 1.) ALL SITE LIGHTING WITH THE EXCEPTION OF MINIMUM ILLUMINATION REQUIRED FOR SECURITY PURPOSES SHALL BE TIMECLOCK OPERATED BASED UPON BUSINESS HOURS.
- 2.) ALL MOUNTING HEIGHTS TO BE MEASURED FROM LENS TO FINAL GRADE BELOW. ALL FIXTURES TO BE MOUNTED AT 18 FT.
- 3.) ALL LIGHTING FIXTURES & LIGHTING CALCULATIONS GENERATED BY DIVERSIFIED NEW JERSEY. FOR ADDITIONAL SUPPORT AND ORDERING INFO, CONTACT MATTHEW KENNY, DIVERSIFIED NEW JERSEY, 55 LANE ROAD, SUITE 360, FAIRFIELD, NJ 07004. CELL: 973-885-1205, EMAL: MKENNY@DNVJ.COM - **NO SUBSTITUTION**
- 4.) ALL FIXTURES (BUILDING & POLE MOUNTED) TO BE MANUFACTURED BY HUBBEL OUTDOOR AND TO BE SINGLE ARRANGEMENT.
- 5.) ALL POLE MOUNTED FIXTURES TO BE MOUNTED A MINIMUM OF 3' FROM CURB LINE.

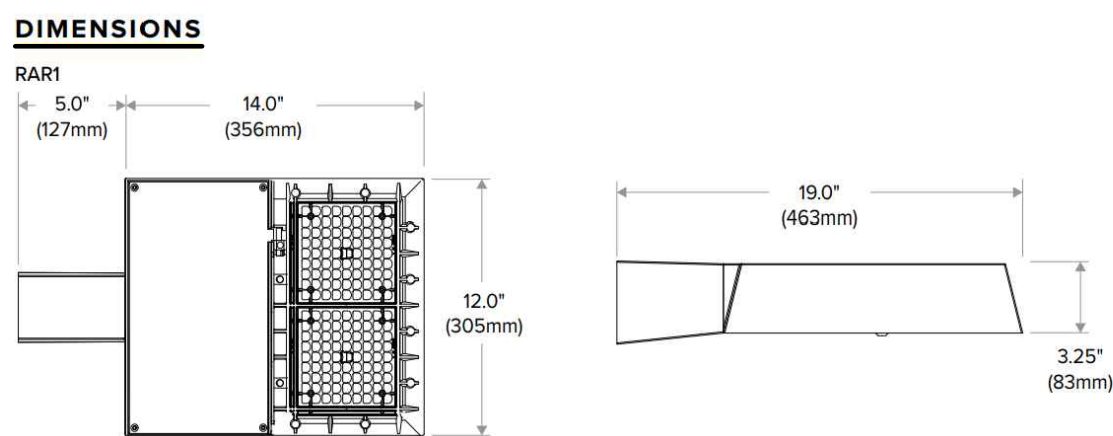
Luminaire Schedule										
Symbol	Qty	Arrangement	Fixture Type	Fixture Description	Catalog Number	LLF	Total Watts	Delivered Lumens	Photometric File Name	Mounted Height (lens to grade)
A	3	SINGLE	WM2	WALL MOUNTED AREA LIGHT, TYPE 2	RAR1-80L-25-3K7-2-WB	0.900	25.4	3240	RAR1-80L-25-3K7-2.ies	18 ft.
B	2	SINGLE	WM4	WALL MOUNTED AREA LIGHT, TYPE 4W	RAR1-80L-25-3K7-4W-WB	0.900	25.4	3209	RAR1-80L-25-3K7-4W.ies	18 ft.
C	1	SINGLE	P2	POLE LIGHT TYPE 2, MOUNTED ON 18' POLE	RAR1-80L-25-3K7-2	0.900	25.4	3240	RAR1-80L-25-3K7-2.ies	18 ft.
D	2	SINGLE	P5	POLE LIGHT TYPE 50W, MOUNTED ON 18' POLE	RAR1-80L-25-3K7-50W	0.900	25.4	3282	RAR1-80L-25-3K7-SQW.ies	18 ft.
E	2	SINGLE	PSA	POLE LIGHT TYPE 50W WITH 6' ARM, MOUNTED ON 18' POLE	RAR1-80L-25-3K7-SQW-6' ARM	0.900	25.4	3282	RAR1-80L-25-3K7-SQW.ies	18 ft.

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE TO ZERO	Illuminance	Fc	0.09	1.5	0.0	N.A.	N.A.
DRIVE & LOT_1	Illuminance	Fc	0.50	1.3	0.3	1.67	4.33

----- BASIC LIGHT DISTRIBUTION PATTERN



HUBBEL 'RATIO' LIGHTING FIXTURE
(N.T.S.)



HUBBEL 'RATIO' RAR1 LIGHTING FIXTURE DIMENSIONS
(N.T.S.)

REVISE PER 3-11-23 BOARD ENGINEER'S REPORT, 3-10-23 DIRECTOR OF PLANNING REPORT, 3-13-23 HABITAT BY DESIGN REPORT, 10-11-22 MOSCO COMMENTS, 1. AND 9-21-23 PUBLIC HEARING

Rev. No. Description By Date

CIVIL ENGINEERING, INC.

1 COVE STREET
BUDD LAKE, N.J. 07828
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N.J. - C of A #24GA27922000

JAMES G. GLASSON
PROFESSIONAL ENGINEER, N.J. LIC. NO. 37703

SHEET 15 OF 19
PROPOSED LIGHTING PLAN
FOR:
LOTS 16, 16.03,
19 & 20 BLOCK 4200
'OLD LEDGEWOOD ROAD'
TOWNSHIP OF MOUNT OLIVE
MORRIS COUNTY, NEW JERSEY

Checked By: JG Date: 9/15/22
Drawn By: WBB Project No: 5332

U:\5332 - Spetcher-Old Ledgewood Rd-Mt Olive Twp Site Plan Rev 1\5332-16 Landscaping Plan Rev 1.dwg: Civil Inc:tb



LANDSCAPING NOTES:

- 1.) ALL BEDS (OUTLINED) TO BE PLANTED WITH HARDWOOD MULCH.
- 2.) ALL PLANT MATERIALS, PLANTING PRACTICES AND SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE "AMERICAN STANDARD FOR NURSERY STOCK" PROMULGATED BY THE AMERICAN ASSOCIATION OF NURSEYMAN STANDARDS.
- 3.) TREE STAKES AND WIRES SHALL BE REMOVED AFTER ONE YEAR FROM THE TIME OF INSTALLATION.
- 4.) LAWN AREAS SHALL BE TOPSOILED, SEEDED AND MULCHED.
- 5.) WHILE NO SPECIES OF TREE, SHRUB, OR GROUNDCOVER IS 100% DEER RESISTANT ALL SPECIES SPECIFIED HAVE BEEN VERIFIED TO BE DEER RETARDANT.
- 6.) AREAS WHERE GROUNDCOVER SPECIES ARE PROPOSED, PLANTING IS TO BE DONE AS TO "FILL" THE ENTIRE PROPOSED PLANTING AREA.

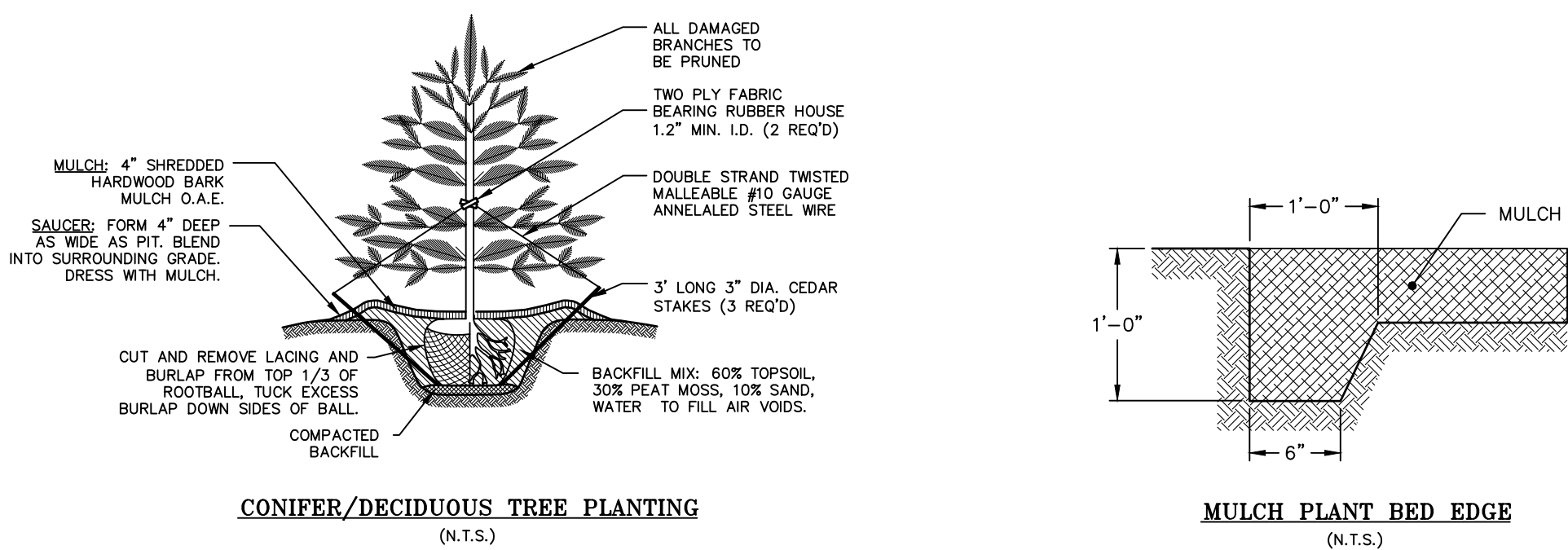
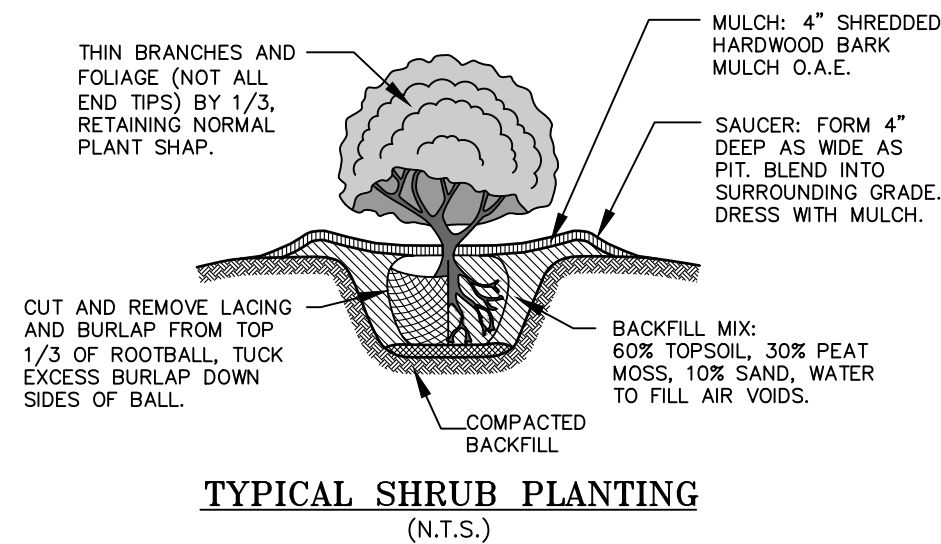
TREE REPLACEMENT REQUIRED PER §550-75 SCHEDULE A

QUANTITY REQUIRED / AC.	EXISTING CANOPY REMOVED*	QUANTITY REQUIRED	SIZE (MINIMUM)	QUANTITY PROPOSED
50	0.466 AC.	24	2.5"-3" CALIPER B&B TREE	27
50	0.466 AC.	24	1" CALIPER B&B TREES	29
100	0.466 AC.	47	6-9" WHIPS	48
100	0.466 AC.	47	3 GAL. SHRUB	47

* SHOWN AND QUANTIFIED ON SHEET 2 (0.466 AC.)

PLANTING LEGEND:

SYMBOL	BOTANICAL NAME	COMMON NAME	KEY	QUANTITY	CALIPER	HEIGHT	ROOT	COMMENT
	PICEA ABIES	NORWAY SPRUCE	PA	27	2-1/2"	7'-8'	B&B	EVERGREEN
	ACER RUBRUM 'RED SUNSET'	RED MAPLE	AR	13	1"	3'-4'	B&B	DECIDUOUS
	ACER SACCHARUM	SUGAR MAPLE	AS	12	1"	3'-4'	B&B	DECIDUOUS
	SALIX NIGRA	BLACK WILLOW	SN	4	1"	3'-4'	B&B	DECIDUOUS
	CORNUS SERICEA 'CARDINAL'	RED TWIG DOGWOOD	CS'C	20	-	WHIP	3 GALLON+	DECIDUOUS
	CORNUS SERICEA 'FLAVIRAMEA'	YELLOW TWIG DOGWOOD	CS'F	18	-	WHIP	3 GALLON+	DECIDUOUS
	BETULA NIGRA	RIVER BIRCH CLUMP	BN	5	-	WHIP	3 GALLON+	DECIDUOUS
	AMELANCHIER CANDENSIS	SHADBLow SERVICEBERRY	SS	5	-	WHIP	3 GALLON+	DECIDUOUS
	FOTHERGILLA GARDENII	DWARF FOTHERGILLA	FG	20	-	-	3 GALLON	DECIDUOUS
	ILEX VERTICILLATA	WINTERBERRY HOLLY	IV	21	-	-	3 GALLON	DECIDUOUS
	JUNIPEROUS CHINENSIS 'PARSONI'	PARSON'S JUNIPER	JC	6	-	-	3 GALLON	EVERGREEN
	NATIVE SHORTGRASS/WILDFLOWER MIX	ERNST MIX 153 (SHOWY NORTHEAST NATIVE WILDFLOWER AND GRASS MIX - ERNMX-15)						
	HARDWOOD MULCH							
	GRASS AREA							



EASEMENT NOTE

SIGHT TRIANGLE EASEMENTS SUBJECT TO GRADING, PLANTING AND CONSTRUCTION RESTRICTIONS AS PROVIDED FOR IN THE MOUNT OLIVE LAND USE ORDINANCE. WITHIN A SIGHT TRIANGLE, NO GRADING, PLANTING OR STRUCTURE SHALL BE ERRECTED OR MAINTAINED MORE THAN 30 INCHES ABOVE THE CENTER-LINE GRADE OF EITHER INTERSECTING STREET OR DRIVEWAY OR LOWER THAN EIGHT FEET ABOVE THEIR CENTER LINES, INCLUDING UTILITY POLES (BUT EXCLUDING STREET NAME SIGNS AND OFFICIAL TRAFFIC REGULATION SIGNS). WHERE ANY STREET OR DRIVEWAY INTERSECTION INVOLVES EARTH BANKS OR VEGETATION, INCLUDING TREES, THE OWNER SHALL TRIM SUCH VEGETATION AND TREES AS WELL AS ESTABLISH PROPER EXCAVATION AND GRADING TO PROVIDE THE SIGHT TRIANGLE.

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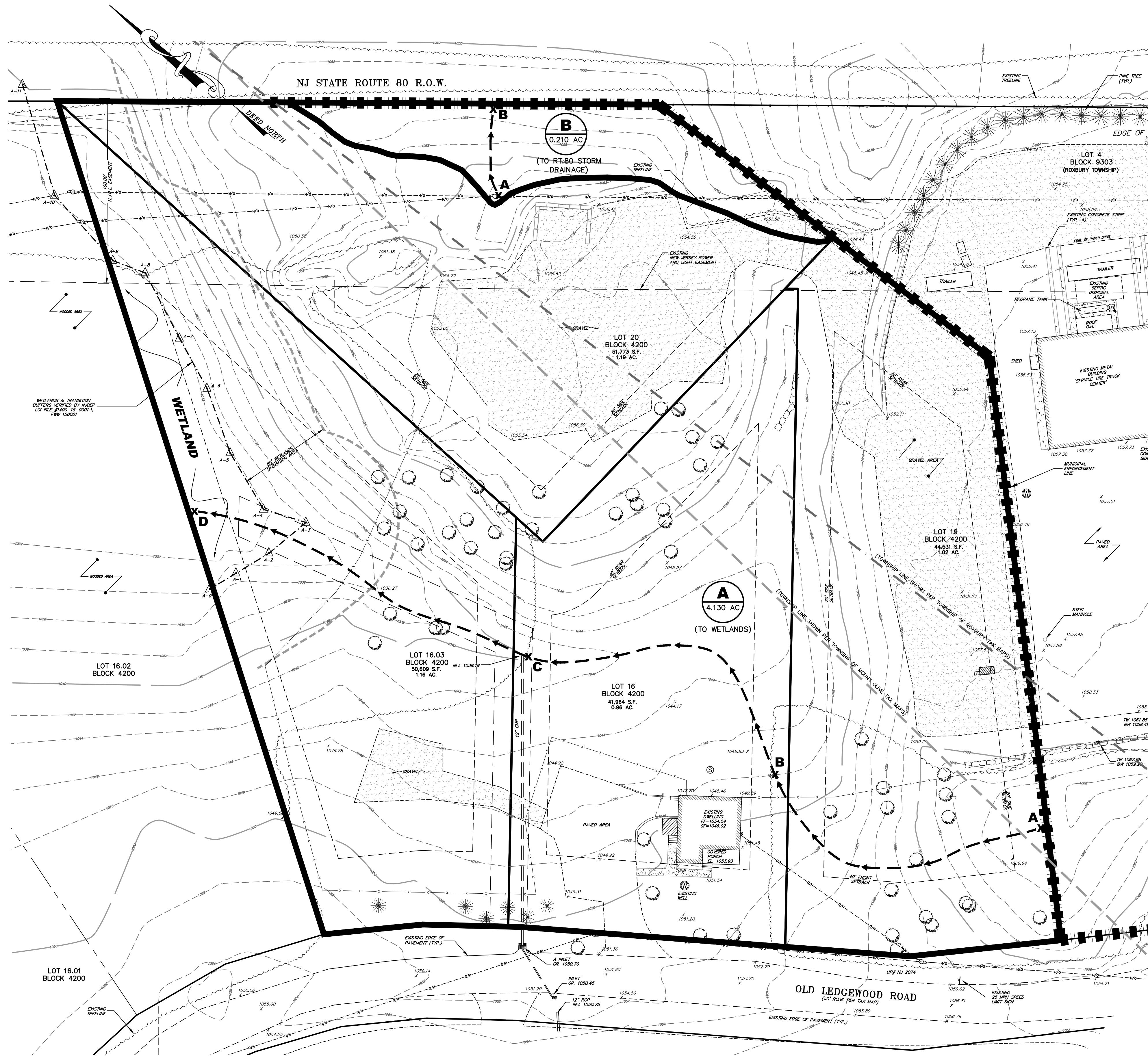
PROPOSED LANDSCAPING PLAN
FOR:
**LOTS 16, 16.03,
19 & 20 BLOCK 4200
'OLD LEDGEWOOD ROAD'**

TOWNSHIP OF MOUNT OLIVE
MORRIS COUNTY, NEW JERSEY

Checked By: JG	Date: 9/15/22
Drawn By: WBB	Project No: 5332

SHEET 16 OF 19

U:\5332 - Speisner-Old Ledgewood Rd-Mt Olive\dwg\Site Plan Rev 1.dwg 5332-17 Pre Development Drainage Plan Rev 1.dwg PS: Civil Inc:ctb



PRE DEVELOPMENT DRAINAGE AREA PLAN

GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.

PRE DEVELOPMENT AREAS

	IMPERVIOUS (INCLUDES PAVEMENT, CONCRETE, GRAVEL & ROOF)	WOODS	GRASS	TOTAL
AREA A	0.929 AC.	1.238 AC.	1.963 AC.	4.130 AC.
AREA B	0.008 AC.	0.009 AC.	0.193 AC.	0.210 AC.
TOTAL				4.340 AC.

DRAINAGE AREAS LEGEND:

- A** DRAINAGE AREA DESIGNATION
- 1.38 AC** TOTAL AREA (AC)
- TIME OF CONCENTRATION FLOW PATH
- X_A** BEGINNING/ENDING OF FLOW PATH
- DRAINAGE AREA BOUNDARY

REVISE PER 3-11-23 BOARD ENGINEER'S
REPORT, 3-10-23 DIRECTOR OF PLANNING
REPORT, 3-13-23 HABITAT BY DESIGN
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SHEET 17 OF 19

PRE DEVELOPMENT DRAINAGE AREA PLAN
FOR:
LOTS 16, 16.03,
19 & 20 BLOCK 4200
'OLD LEDGEWOOD ROAD'

TOWNSHIP OF MOUNT OLIVE
MORRIS COUNTY, NEW JERSEY

Checked By: JG Date: 9/15/22
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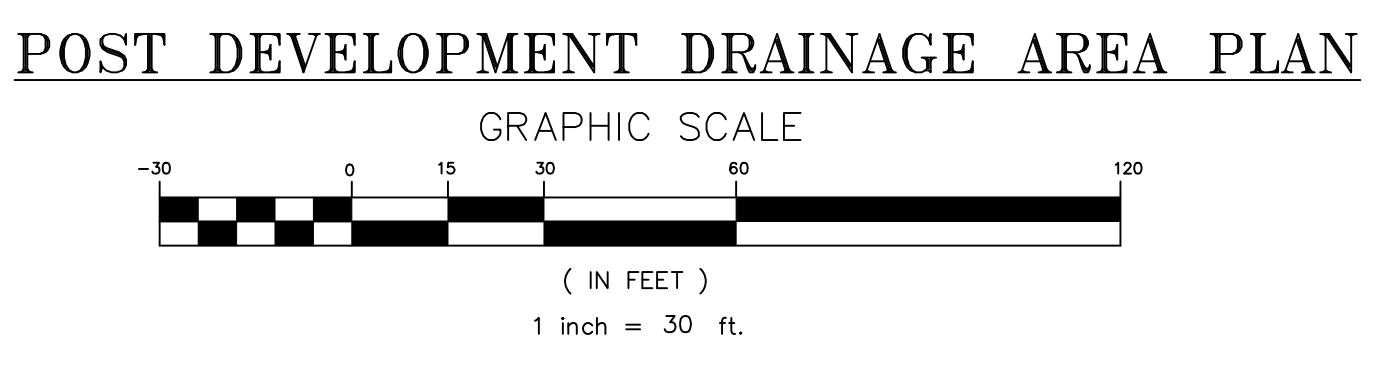


POST DEVELOPMENT AREAS			
	IMPERVIOUS (INCLUDES PAVEMENT, CONCRETE, GRAVEL & ROOF)	WOODS	GRASS
AREA A (REMAINDER)	0.029 AC.	0.668 AC.	1.090 AC.
AREA A-1	0.284 AC.	---	0.214 AC.
AREA A-2	0.478 AC.	---	0.095 AC.
AREA A-3	0.309 AC.	0.054 AC.	0.397 AC.
AREA A-4	0.539 AC.	---	---
AREA B	---	---	0.183 AC.
TOTAL			4.340 AC.

AREAS A-1, A-2, A-3, A-4 TO UNDERGROUND STORM SYSTEM

DRAINAGE AREAS LEGEND:

- A** — DRAINAGE AREA DESIGNATION
- 1.38 AC** — TOTAL AREA (AC)
- TIME OF CONCENTRATION FLOW PATH
- X** — BEGINNING/ENDING OF FLOW PATH
- DRAINAGE AREA BOUNDARY



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SHEET 18 OF 19

POST DEVELOPMENT DRAINAGE AREA PLAN FOR:
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U:\5332 - Speicher-Old Ledgewood Rd-Mt Olive.dwg Site Plan Rev 1\5332-18 Post Development Drainage Plan Rev 1.dwg PS: Civil Inc.ctb

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