

## LIST OF REQUIRED APPROVALS

- MENDHAM TOWNSHIP PLANNING BOARD
- MORRIS SOIL CONSERVATION DISTRICT
- MORRIS COUNTY PLANNING BOARD

### CERTIFICATIONS/APPROVALS

THIS PLAN IS HEREBY APPROVED BY THE BOARD OF ADJUSTMENT OF THE TOWNSHIP OF MENDHAM ON \_\_\_\_\_

BOARD OF ADJUSTMENT CHAIRMAN \_\_\_\_\_ DATE \_\_\_\_\_

BOARD OF ADJUSTMENT SECRETARY \_\_\_\_\_ DATE \_\_\_\_\_

BOARD OF ADJUSTMENT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

I HEREBY CERTIFY THAT I AM THE PRESENT OWNER OF THE ABOVE REFERENCED PROPERTY AND THAT I CONSENT TO THE FILING OF THIS SUBDIVISION PLAN WITH THE BOARD OF ADJUSTMENT OF MENDHAM TOWNSHIP, NJ.

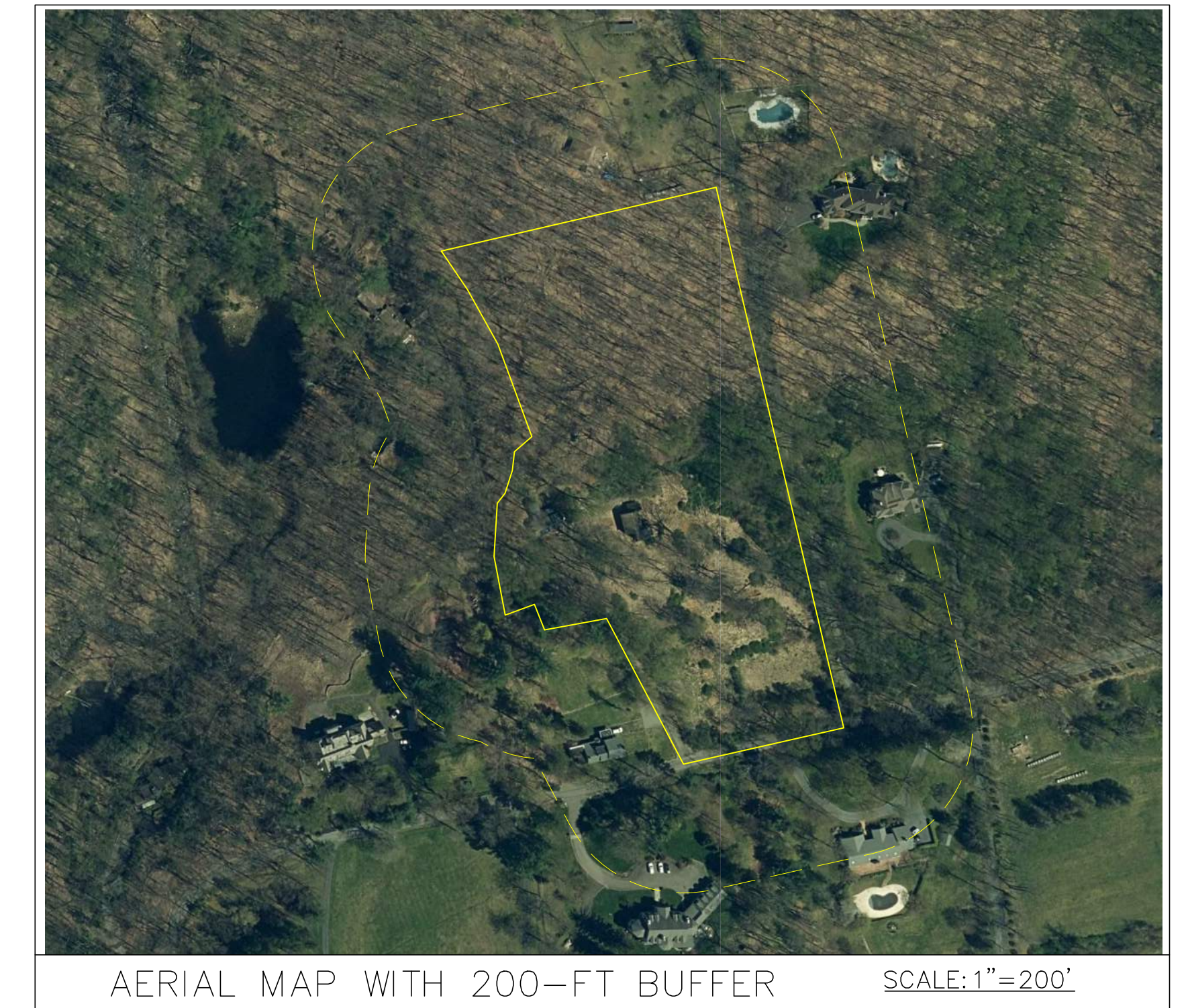
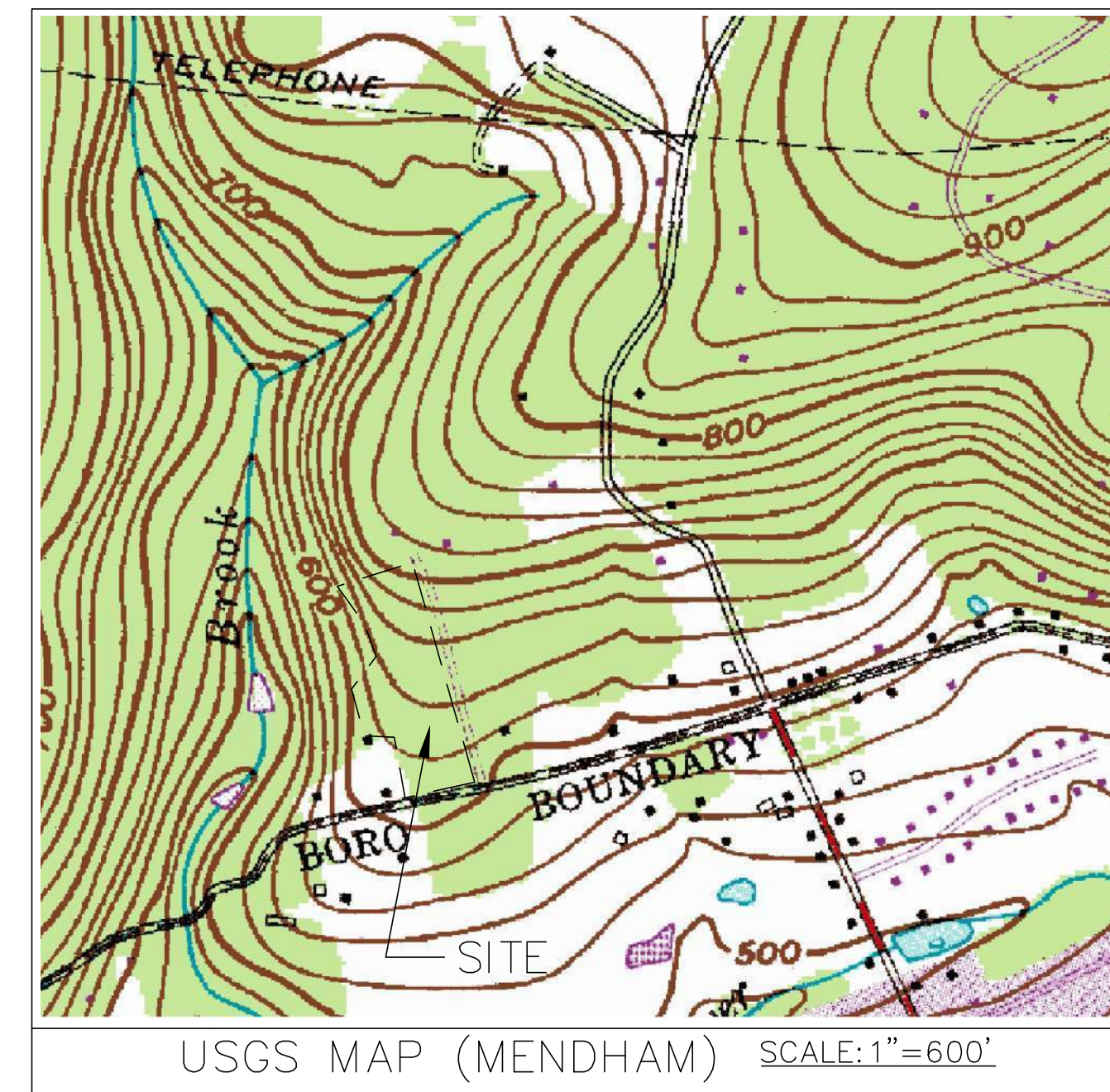
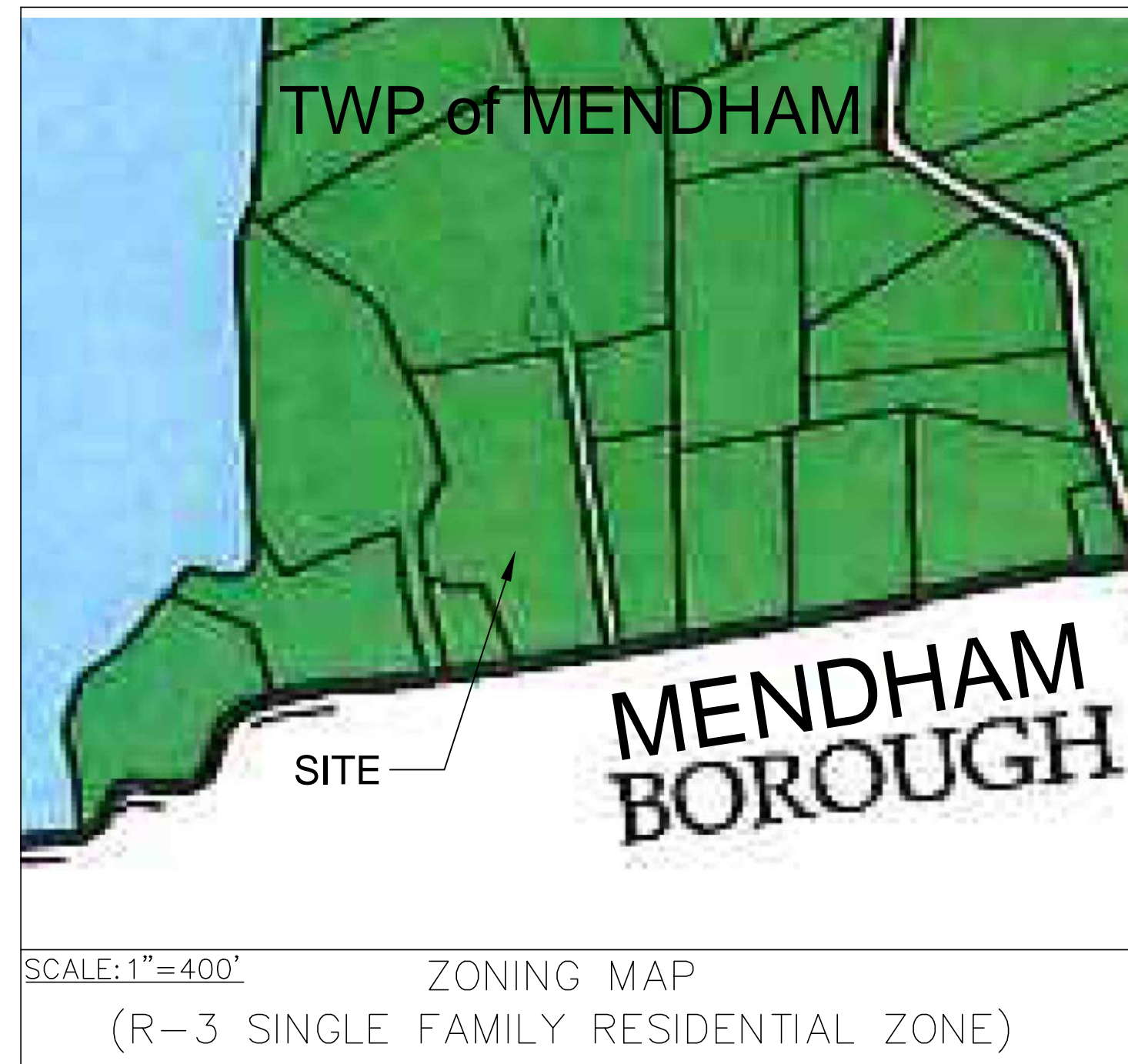
DATE \_\_\_\_\_ OWNER \_\_\_\_\_

### GENERAL NOTE:

- OWNER/APPLICANT:  
OPTIMUM DEVELOPMENT GROUP CORP  
6 OLD FARMSTEAD ROAD  
CHESTER, NJ 07930  
973-879-2663, FAX: 908-879-9880
- BOUNDARY INFORMATION SHOWN HEREON WAS TAKEN FROM A PLAN ENTITLED "TOPOGRAPHIC SURVEY, LOT 47 BLOCK 116, 239 MOUNTAINSIDE ROAD, TOWNSHIP OF MENDHAM, MORRIS COUNTY, NJ", PREPARED BY SCHAN ASSOCIATES, 41 HORSENECK ROAD, MONTVILLE NJ 07045, DATED 6/15/2017.
- ALL ELEVATION GIVEN ARE ON BASED ON DATUM = NAVD 1988, NAD 83.
- THERE ARE NO ENVIRONMENTAL CONSTRAINTS ON SITE, OR ANY FRESHWATER WETLANDS, RIPARIAN ZONES OR STATE OPEN WATERS. THE NEIGHBORING PROPERTY TO THE NORTHWEST, BLOCK 116, LOT 49, APPLIED FOR AN NJDEP FRESHWATER WETLANDS LETTER OF INTERPRETATION, LINE VERIFICATION (LOI). THE LOI (FILE NO.: 1419-15-0003.1 (FWW 150002)) ISSUED ON JUNE 23, 2015, AND EXTENDED JUNE 2020 INDICATES THAT THERE IS A SMALL BUFFER AREA (APPROXIMATELY 4,753 SF, 0.108-AC.) THAT EXTENDS INTO THE SITE AT THE NORTHWEST CORNER (PROPOSED LOT 1.05). THIS AREA WILL BE TEMPORARILY FENCED OFF USING ORANGE PLASTIC CONSTRUCTION FENCE, SO THAT THERE WILL BE NO IMPACTS DURING CONSTRUCTION. THE AREA HAS BEEN SURVEYED, IT SHOWN ON THE SITE PLANS AND WILL BE DEED RESTRICTED.
- THE MORRIS COUNTY OFFICE OF PLANNING AND PRESERVATION HAS REVIEWED THE SITE PLANS. MORRIS COUNTY PLANNING BOARD PRELIMINARY SUBDIVISION APPROVAL WAS GRANTED ON APRIL 14, 2020.
- SOIL EROSION AND SEDIMENT CONTROL PLAN CERTIFICATION IS REQUIRED FROM THE MORRIS COUNTY SOIL CONSERVATION DISTRICT FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THE PROJECT PROPOSES APPROXIMATELY 6.03 ACRES OF DISTURBANCE.
- ALL UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED AND OR LOCATED. ALL UTILITY LOCATIONS ARE APPROXIMATE AS TO SIZE AND LOCATIONS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES VIA NJ ONE CALL (1-800-272-1000) PRIOR TO THE START OF THE WORK OR ANY EXCAVATION TO HAVE THE UTILITIES MARKED OUT. UTILITY INFORMATION SHOWN HAVE BEEN TAKEN FROM VARIOUS SOURCES AND NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS.

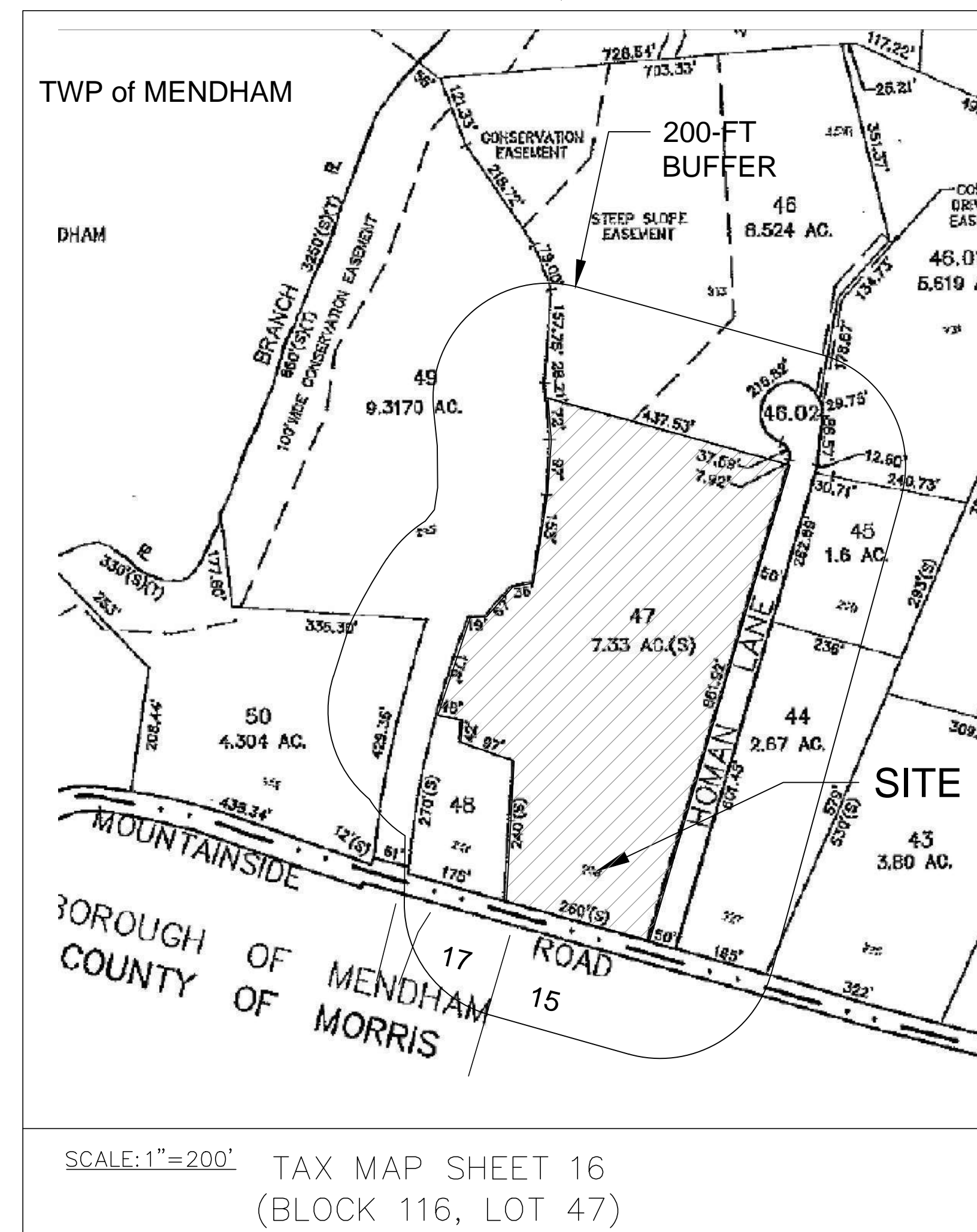
### NOTES:

- THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSES OF MUNICIPAL AND AGENCY APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED FOR THE CONSTRUCTION DOCUMENTS UNTIL ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED ON THE DRAWINGS AND EACH DRAWING HAS BEEN MARKED "ISSUED FOR CONSTRUCTION."
- THE LOCATION, TYPE, LINE, SIZE, DEPTH, ETC. OF ALL EXISTING UTILITIES, ARE APPROXIMATE. LOCATION OF SERVICE LATERALS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND AT HIS OWN EXPENSE PRIOR TO THE START OF CONSTRUCTION.
- ALL ELEVATION GIVEN ARE ON BASED ON DATUM = NAVD 1988, NAD 83.
- UNDERGROUND UTILITY LOCATIONS ARE BASED ON FOUND FIELD EVIDENCE SUCH AS OLD MARKOUTS, VALVES, PAVEMENT REPAIR PATCHES, ETC.
- LOCATIONS SHOWN HEREON ARE APPROXIMATE. ADDITIONAL LINES MAY EXIST.



# PRELIMINARY MINOR SUBDIVISION PLAN FORREST VIEW ESTATES

BLOCK 116, LOT 47  
TOWNSHIP OF MENDHAM,  
MORRIS COUNTY, NEW JERSEY



SITE PLAN INDEX	
SHEET No.	TITLE
1	COVER SHEET
2	PRELIMINARY MINOR SUBDIVISION PLAT
3	SURVEY
4	TOPOGRAPHICAL SURVEY
5	GRADING, DRAINAGE PLAN AND PROFILE
6	SOIL EROSION AND SEDIMENT CONTROL NOTES
7	SOIL EROSION AND SEDIMENT CONTROL PLAN & DETAILS
8	UTILITY PLAN
9	CONSTRUCTION DETAILS

200 FT PROPERTY OWNER LIST	
PROPERTY OWNER	PROPERTY LOCATION
PARAGANO, THOMAS & THERESE 227 MOUNTAINSIDE RD MENDHAM, NJ	227 MOUNTAINSIDE RD
ABKIN, ELIZABETH T 229 MOUNTAINSIDE RD MENDHAM, NJ	229 MOUNTAINSIDE RD
VON POELNITZ, MICHEAL P.O. BOX 87 MENDHAM, NJ	235 MOUNTAINSIDE RD
VON POELNITZ, MICHEAL P.O. BOX 87 MENDHAM, NJ	235 MOUNTAINSIDE RD
VON POELNITZ, MICHEAL P.O. BOX 87 MENDHAM, NJ	235 MOUNTAINSIDE RD
VON POELNITZ, MICHEAL P.O. BOX 87 MENDHAM, NJ	MOUNTAINSIDE RD
VON POELNITZ, MICHEAL & AUDREY P.O. BOX 87 MENDHAM, NJ	MOUNTAINSIDE RD
OPTIMUM DEVELOPMENT GROUP CORP 6 OLD FARNSTEAD RD CHESTER, NJ	239 MOUNTAINSIDE RD

200 FT PROPERTY OWNER LIST	
PROPERTY OWNER	PROPERTY LOCATION
KAUFFMANN, ESTHER 241 MOUNTAINSIDE RD MENDHAM, NJ	241 MOUNTAINSIDE RD
M&D TSC, LLC 408 MAIN ST, SUITE 502 BOONTON, NJ	243 MOUNTAINSIDE RD
GATES, ROBERT G & CORNELIA H	251 MOUNTAINSIDE RD
JACK SKYDEL / ALEXA LEWANDOWSKI 250 MOUNTAINSIDE RD BOROUGH OF MENDHAM, NJ	250 MOUNTAINSIDE RD
DONALD AND STEPHANIE HAKES 240 MOUNTAINSIDE RD BOROUGH OF MENDHAM, NJ	240 MOUNTAINSIDE RD
MIDLY MOORE 230 MOUNTAINSIDE RD BOROUGH OF MENDHAM, NJ	230 MOUNTAINSIDE RD
FREDERICK RIENAU 220 MOUNTAINSIDE RD BOROUGH OF MENDHAM, NJ	220 MOUNTAINSIDE RD



**CERTIFIED ENGINEERING OF NJ**  
6 OLD FARMSTEAD ROAD  
CHESTER NJ 07930  
TEL. (908) 879-2663, FAX. (908) 879-9880  
CERTIFICATE OF AUTHORIZATION - 24GA28095000

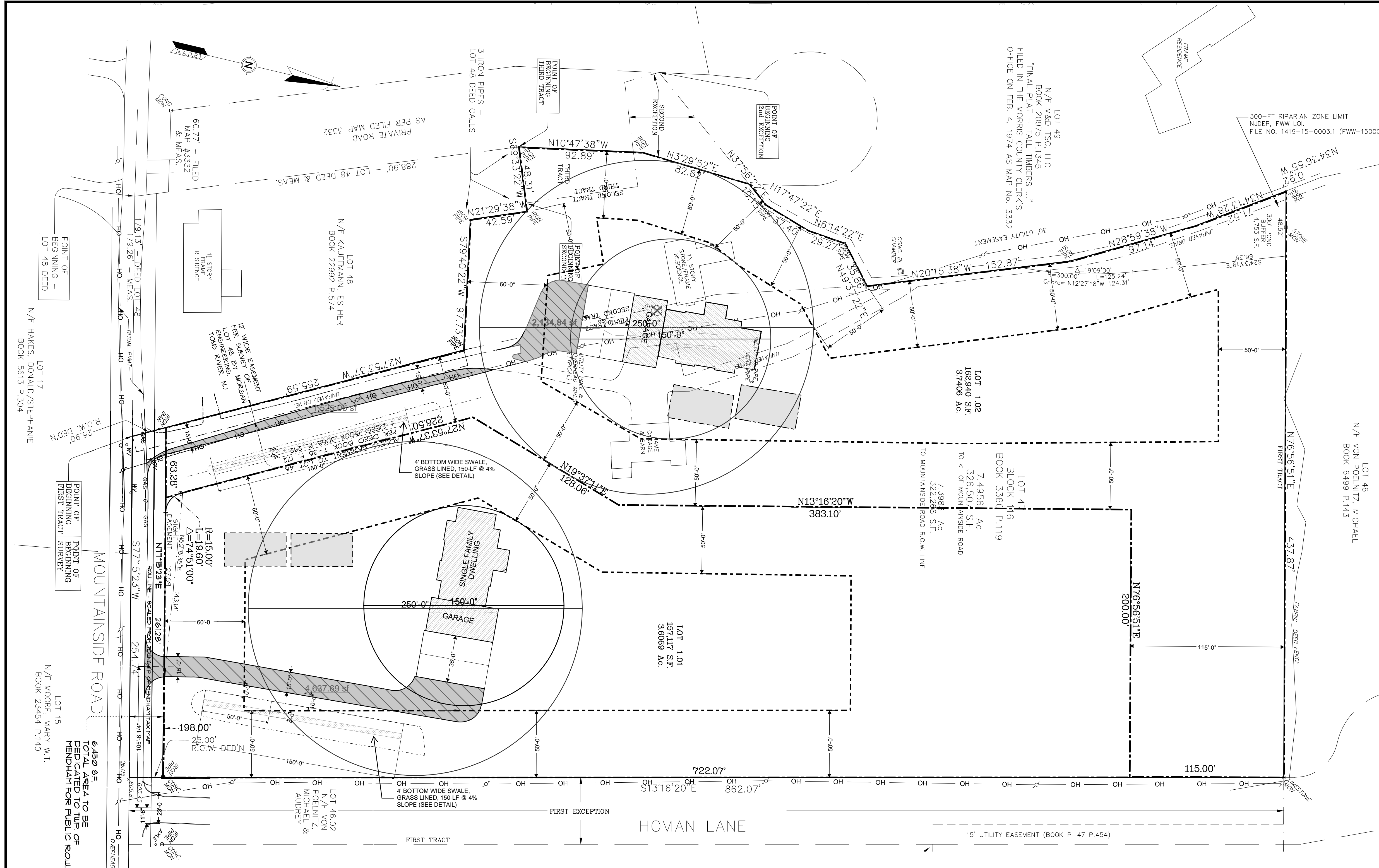
PROJECT No: \_\_\_\_\_  
DATE: March 14, 2023  
SCALE: AS SHOWN  
CHECKED BY: RAM  
DRAFTED BY: DC

*Anthony A. Mortezaei*  
**ANTHONY A MORTEZAEI, PE, PP**  
NJ LICENSE NO. 33920

SHEET: COVER SHEET  
LOT 47 - BLOCK 116  
239 MOUNTAINSIDE ROAD  
TOWNSHIP OF MENDHAM  
MORRIS COUNTY NEW JERSEY

SHEET 1 OF 9



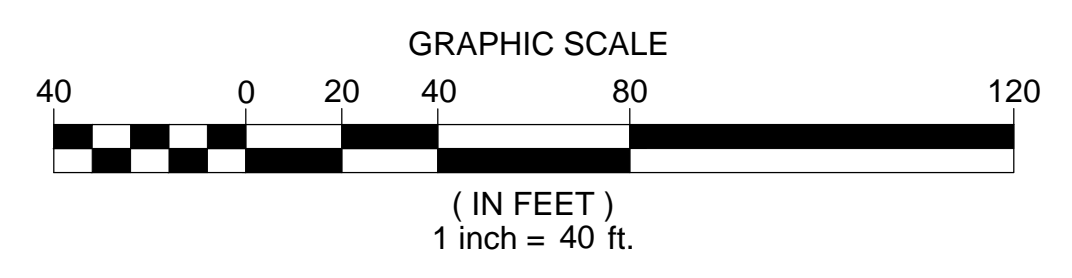


ZONING INFORMATION TABLE			
SINGLE-FAMILY RESIDENTIAL ZONE (SCHEDULE OF REQUIREMENTS)	REQUIRED (R3 ZONE) EXISTING	PROPOSED LOT 1.01	PROPOSED LOT 1.02
MINIMUM LOT AREA	130,680-SF	157,117 SF	162,940 SF
MIN. NET BLDG ENVELOP AREA	40,000-SF	54,702-SF	51,208 SF
<b>LOT ACREAGE</b>	<b>3.000-AC.</b>	<b>3.6069 ACRES</b>	<b>3.7406 ACRES</b>
MIN. LOT FRONTAGE (AT RIGHT-OF-WAY)	100-FT	263.6-FT	100-FT
MINIMUM DIAMETER L.G.C.	250-FT	250-FT	250-FT
MINIMUM DIAMETER B.E.C.	150-FT	150-FT	150-FT
MINIMUM SIDE YARD	50-FT	50-FT	50-FT
MINIMUM FRONT YARD	60-FT	60-FT	60-FT
MINIMUM REAR YARD	50-FT	50-FT	50-FT
MAXIMUM HEIGHT (FEET)	35-FT	35-FT	35-FT
MAXIMUM HEIGHT (STORIES)	2-STORIES	2-STORIES	2-STORIES
MAX. FLOOR AREA (SF)	* 7,700-SF	8,732 SF	8,959 SF
PROP. FLOOR AREA (SF)	—	6,000-SF	6,000-SF

\* MAX FLOOR AREA (FAR) - SF = 2,600+(1,700 x LOT ACREAGE)

PARCEL AREA SUMMARY TABLE				
LOT NAME	LOT AREA (SF)	LOT AREA (AC)	BUILDING ENV. AREA (SF)	FLOOR AREA RATIO
LOT 1.01	157,117	3.607	54,702	6,000
LOT 1.02	162,940	3.741	51,208	6,000
ROW & ROADWAY	6,450	0.148	—	—
TOTAL	326,526	7.496	—	—

- GENERAL NOTES:**
- ONWER / APPLICANT: OPTIMUM DEVELOPMENT GROUP CORP. 6 OLD FARMSTEAD ROAD CHESTER, NJ 07930 (908) 879-2663, FAX (908) 879-9880
  - BOUNDARY INFORMATION SHOWN HEREON WAS TAKEN FROM A PLAN ENTITLED "TOPOGRAPHIC SURVEY, LOT 47 BLOCK 116, 239 MOUNTAIN SIDE ROAD, TOWNSHIP OF MENDHAM, MORRIS COUNTY, NJ", PREPARED BY SCHAN ASSOCIATES, 41 HORSENECK ROAD, MONTVILLE NJ 07045, DATED 6/15/2017.
  - ALL ELEVATION GIVEN ARE ON BASED ON DATUM = NAVD 1988, NAD 83.
  - THE SUBJECT PARCEL, BLOCK 116 LOT 47, CONSISTS OF 326,507 S.F. (7.4956 ACRES)
  - NO PUBLIC SEWER SYSTEM SERVICE THE SITE.
  - PREDOMINANT SOIL GROUP ARE TYPE "B" SOILS.



**CERTIFICATIONS/APPROVALS**

I CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THIS LAND SURVEY DATED 11/07/2018 HAS BEEN MADE UNDER MY SUPERVISION AND MEETS THE MINIMUM SURVEY DETAIL REQUIREMENTS OF THE STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND THAT THE OUTBOUND CORNER MARKERS AS SHOWN HAVE BEEN FOUND, OR SET.

ANDRE SCHAN, PLS  
NJ LICENSE NO. 30749

DATE (AFFIX SEAL)

I CERTIFY THAT THIS MAP HAS BEEN MADE UNDER MY SUPERVISION AND COMPLIES WITH THE "TITLE RECORDATION LAW."

ANDRE SCHAN, PLS  
NJ LICENSE NO. 30749

DATE (AFFIX SEAL)

I HAVE CAREFULLY EXAMINED THIS MAP AND FIND IT CONFORMS WITH THE PROVISIONS OF THE MAP FILING LAW AND THE MUNICIPAL ORDINANCES AND REQUIREMENTS APPLICABLE THERETO.

TOWNSHIP ENGINEER OF THE TOWNSHIP OF MENDHAM

DATE

THIS SUBDIVISION SHOWN HEREON IS MADE WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE DESIRES OF THE OWNER WHO HEREBY CONSENTS TO THE FILING THEREOF.

THE TOWNSHIP OF MENDHAM

DATE

THE ABOVE BOARD OF ADJUSTMENT APPROVAL FOR FILING SHALL EXPIRE IF THIS MAP IS NOT PROPERLY FILED WITH THE CLERK OF THE COUNTY OF MORRIS ON OR BEFORE

TOWNSHIP CLERK OF THE TOWNSHIP OF MENDHAM

DATE

I HEREBY CERTIFY THAT THIS MAP COMPLIES WITH THE PROVISION OF THE "MAP FILING LAW" AND FURTHER CERTIFY THAT IT HAS BEEN APPROVED FOR FILING IN THE OFFICES OF THE COUNTY CLERK OF MORRIS COUNTY BY THE BOARD OF ADJUSTMENT OF THE TOWNSHIP OF MENDHAM.

CHAIRMAN, BOARD OF ADJUSTMENT

DATE

SECRETARY

DATE

**MUNICIPALITY**

THIS PLAN IS HEREBY APPROVED BY THE BOARD OF ADJUSTMENT OF THE TOWNSHIP OF MENDHAM ON NOVEMBER 9TH, 2017.

PLANNING BOARD CHAIRMAN

DATE

PLANNING BOARD SECRETARY

DATE

PLANNING BOARD ENGINEERING

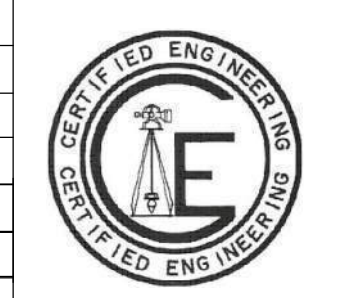
DATE

I HEREBY CERTIFY THAT I AM THE PRESENT OWNER OF THE ABOVE REFERENCED PROPERTY AND THAT I CONSENT TO THE FILING OF THIS SUBDIVISION PLAN WITH THE BOARD OF ADJUSTMENT OF MENDHAM TOWNSHIP, NJ.

DATE

OWNER

DATE	REVISIONS	BY
4-17-23	ADDED GRASS SWALE DETAIL	RM
4-1-2023	REMOVED RAINGARDENS	RM
4-1-2023	CORRECTED LOT ACREAGE	RM
3-28-23	ADDED NORTH ARROW & DELETED NOTE	RM
DATE	REVISIONS	BY



**CERTIFIED ENGINEERING OF NJ**

6 OLD FARMSTEAD ROAD  
CHESTER NJ 07930  
TEL. (908) 879-2663, FAX. (908) 879-9880  
CERTIFICATE OF AUTHORIZATION - 24GA28095000

PROJECT No: \_\_\_\_\_  
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SCALE: 1" = 40'  
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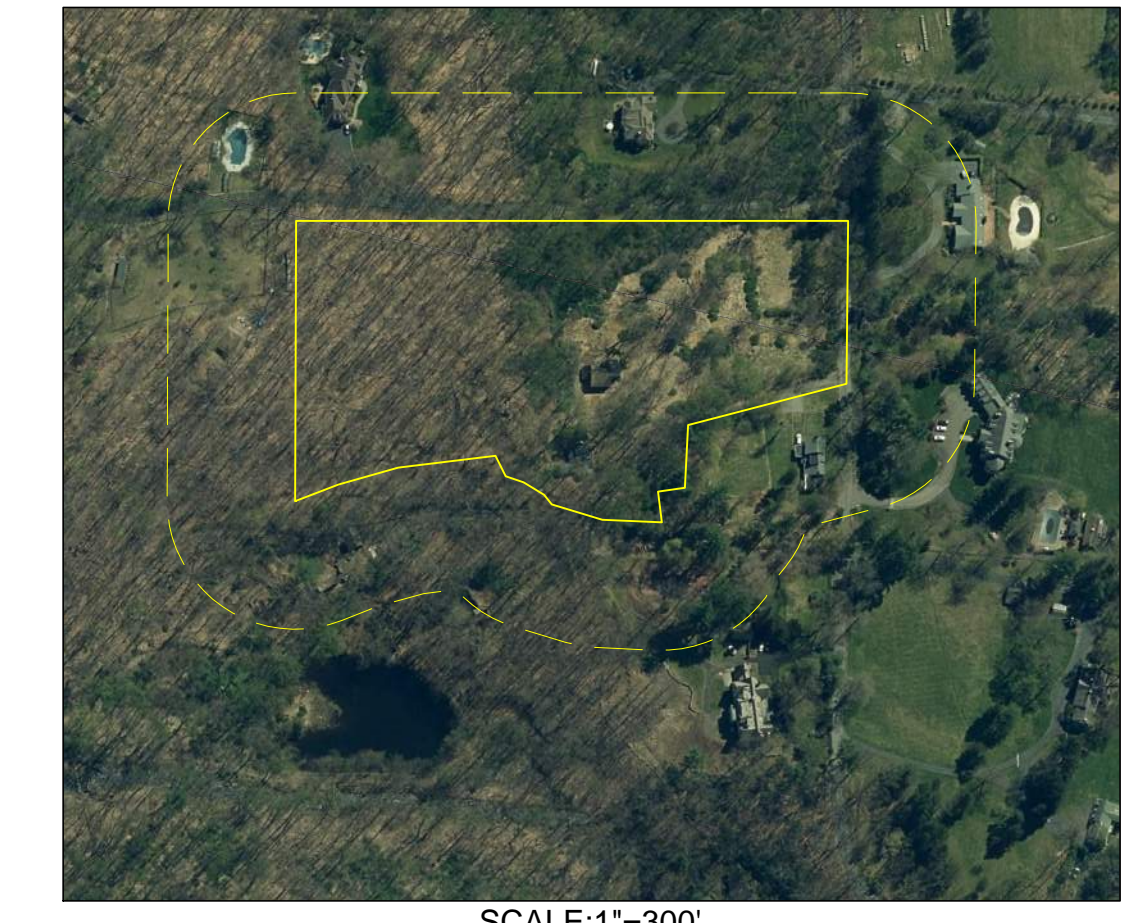
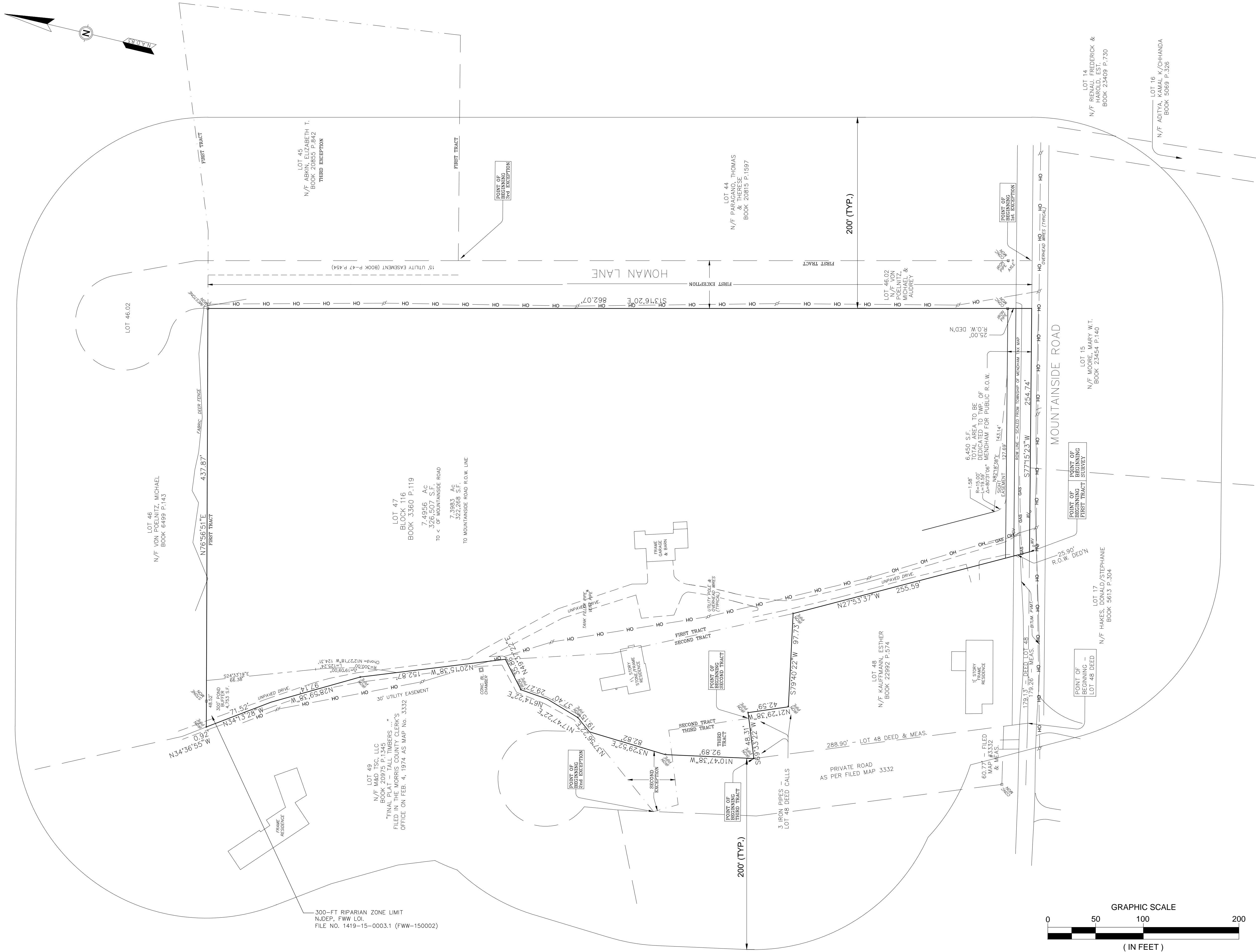
*Anthony A. Mortezaei*  
**ANTHONY A MORTEZAEI, PE, PP**  
NJ LICENSE NO. 33920

SHEET: PRELIMINARY MINOR SUBDIVISION PLAT

**LOT 47 - BLOCK 116**  
239 MOUNTAIN SIDE ROAD  
TOWNSHIP OF MENDHAM  
MORRIS COUNTY NEW JERSEY

SHEET **2** OF **9**

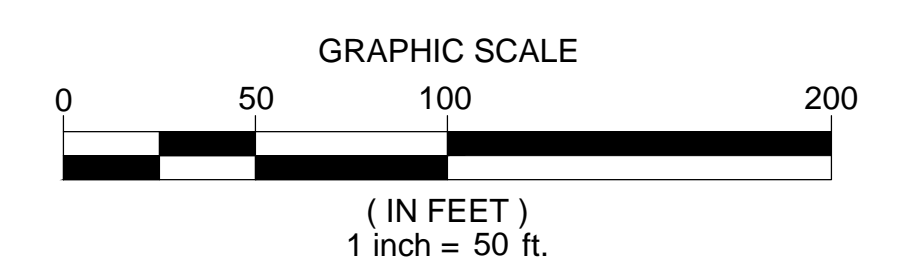




SCALE: 1"=300'  
AERIAL MAP WITH 200-FT BUFFER

200 FT PROPERTY OWNER LIST	
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VON POELNITZ, MICHAEL P.O. BOX 87 MENDHAM, NJ	235 MOUNTAINSIDE RD
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DONALD AND STEPHANIE HAKES 240 MOUNTAINSIDE RD BOROUGH OF MENDHAM, NJ	240 MOUNTAINSIDE RD
MIDLY MOORE 230 MOUNTAINSIDE RD BOROUGH OF MENDHAM, NJ	230 MOUNTAINSIDE RD
FREDERICK RIENAU 220 MOUNTAINSIDE RD BOROUGH OF MENDHAM, NJ	220 MOUNTAINSIDE RD



PROJECT No:	March 14, 2023
DATE :	March 14, 2023
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CHECKED BY:	AS
DRAFTED BY:	AS

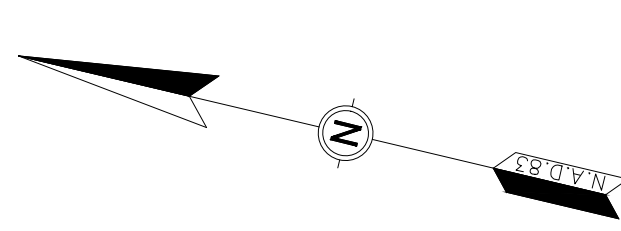
**SCHAN ASSOCIATES**  
41 HORSENECK ROAD  
MONTVILLE, NJ 07045  
973-541-1555

**ANDRE SCHAN**  
PROFESSIONAL LAND SURVEYOR NJ LIC. 30749  
PROFESSIONAL PLANNER NJ LIC. 3302

NJ LICENSE NO. 33920

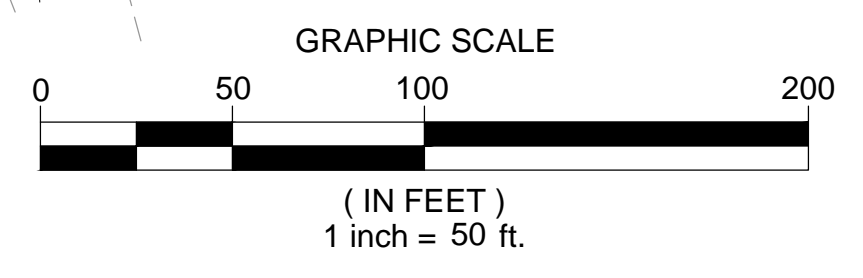
SHEET:	SURVEY	SHEET
	LOT 47 - BLOCK 116	3
	239 MOUNTAINSIDE ROAD	
	TOWNSHIP OF MENDHAM	9
	MORRIS COUNTY NEW JERSEY	OF





SUMMARY TABLE		
SIZES/SPECIES	NUMBER OF EXISTING TREES	NUMBER OF TREES TO BE REMOVED
7"	2	1
7" WCHY	2	0
8"	2	0
8" BCH	2	0
8"8"	1	0
8"BCH	2	0
9"	7	3
10"	9	0
10" BCH	1	4
10" CDR	1	0
10" WCHY	1	0
11"	6	0
11" DEAD	1	0
11" NORSPR	1	2
12"	16	3
13"	4	0
13" BCH	1	0
13" MPL	1	2
13" CDR	1	0
14"	8	2
14" BCH	1	0
14" CDR	1	0
15" HMLK	8	3
15"15"	1	0
15"16"	1	0
15" BCH	1	0
15" CDR	1	0
16"	15	0
16" DEAD	1	1
17"	9	2
17"17"	1	0
17" DEADWCHY	1	0
18"	13	0
18" STP	2	0
18" DEAD	1	1
18"3	1	0
19"	8	1
20"	12	2
20" CDR	1	0
20" FRT	1	1
21"	11	2
22"	11	3
23"	1	0
23" TLP	4	3
24"	11	3
24" BCH	1	0
24" TLP	2	1
25"	3	1
25"25"	1	0
26"	7	5
27"	7	4
28"	10	3
30"	8	3
30" TWIN	1	0
33"	1	0
36"	4	1
39"	1	0
39" TLP	1	1
42"	2	2
44" TLP	1	1
54" TLP	1	1
10"19"16"24" CHN CH'NUT	1	1
13"15"18" TRI	1	0
18"19" TLP	1	0
TOTAL	241	63

**NOTES:**  
 HORIZONTAL AND VERTICAL CONTROL ESTABLISHED BY GPS BY ROBINSON AERIAL SURVEYS, INC., HACKETTSTOWN, NJ  
 GROUND CONTOURS ESTABLISHED BY LIDAR, BY ROBINSON AERIAL SURVEYS, INC., HACKETTSTOWN, NJ  
 BOUNDARY CONTROL LOCATED BY UNDERSIGNED BY GROUND SURVEY, SURVEYS, INC., HACKETTSTOWN, NJ



SCALE: 1"=300'  
 AERIAL MAP WITH 200-FT BUFFER

**LEGEND:**  
 [Grey box] EXISTING PAVEMENT/GROUND TO BE REMOVED

04-01-2023	REVISED TREE REMOVAL	RM	PROJECT No:	
DATE	REVISIONS	BY	DATE :	March 14, 2023
			SCALE :	1" = 50'
			CHECKED BY:	AS
			DRAFTED BY:	AS

**SCHAN ASSOCIATES**  
 41 HORSENECK ROAD  
 MONTVILLE, NJ 07045  
 973-541-1555

**ANDRE SCHAN**  
 PROFESSIONAL LAND SURVEYOR NJ LIC. 30749  
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NJ LICENSE NO. 33920

SHEET: TOPOGRAPHICAL SURVEY  
 LOT 47 - BLOCK 116  
 239 MOUNTAINSIDE ROAD  
 TOWNSHIP OF MENDHAM  
 MORRIS COUNTY NEW JERSEY

SHEET 4  
 OF 9



IMPERVIOUS AREAS	LOT 1.01	LOT 1.02
PROP. IMP. DRIVEWAY	4,638 SF	1,525 + 2,934 = 4,459 SF
DRIVEWAY AREA (35'X52')	1,820 SF	1,820 SF
EXISTING IMP. TO BE REMOVED	0.000 SF	-7,635 SF
TOTAL	6,458 SF	-1,356 SF
TOTAL NET NEW IMPERVIOUS (MVS) = 5,102 SF OR 0.117 ACRES		

TABULATION OF CRITICAL SLOPE AREAS

LAND SLOPE SYMBOL	CATEGORY (%)	AREA (ACRES)	MAXIMUM ALLOWABLE DISTURBANCE (%)	MAXIMUM ALLOWABLE DISTURBANCE (ACRES)	PROPOSED DISTURBANCE (ACRES)	VARIANCE REQUIRED?
[Symbol]	0-10	5.2046	100%	5.2046	0.000	NO
[Symbol]	10-15	0.9779	25%	0.2445	0.000	NO
[Symbol]	15-25	1.0534	15%	0.1580	0.000	NO
[Symbol]	25+	0.2597	5%	0.0130	0.000	NO
TOTAL DISTURBANCE		7.4956	N/A	5.6201	0.000	NO

\*SLOPES CALCULATED BETWEEN 2' CONTOURS.

- NOTES:
- SOIL TYPE "Gkaob" IS GLADSTONE GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES. USDA TEXTURES RANGED FROM GRAVELLY TO SANDY WITH A HYDROLOGIC SOIL GROUP OF B.
 

TYPICALLY PROFILE

    - A- 0 to 10in: GRAVELLY LOAM
    - B1- 10 to 22in: SANDY CLAY LOAM
    - B2- 22 to 37in: LOAM
    - C - 22 to 66in: SANDY LOAM
    - R - 66 to 76in: BEDROCK

PROPERTY AND QUANTITIES

    - DEPTH TO RESTRICTIVE FEATURES: 60 to 80in TO LITHIC BEDROCK
    - NATURAL DRAINAGE CLASS: WELL DRAINED
    - DEPTH TO WATER TABLE: MORE THAN 80in
  - SOIL TYPE "PaoC" IS PARKER GRAVELLY SANDY LOAM, 3 TO 15 PERCENT SLOPES. USDA TEXTURE IS VERY GRAVELLY TO VERY SANDY WITH A HYDROLOGIC SOIL **GROUP B**.
 

TYPICALLY PROFILE

    - A- 0 to 5in: VERY GRAVELLY SANDY LOAM
    - Bw1- 5 to 20in: VERY GRAVELLY SANDY LOAM
    - Bw2- 20 to 31in: VERY GRAVELLY SANDY LOAM
    - C - 31 to 60in: VERY GRAVELLY SANDY LOAM

PROPERTY AND QUANTITIES

    - DEPTH TO RESTRICTIVE FEATURES: MORE THAN 80in
    - NATURAL DRAINAGE CLASS: SOMEWHAT EXCESSIVELY DRAINED
    - DEPTH TO WATER TABLE: MORE THAN 80in
  - SOIL TYPE "PauDc" IS PARKER-GLADSTONE COMPLEX, 15 TO 25 PERCENT SLOPES. USDA TEXTURES IS VERY GRAVELLY TO VERY SANDY WITH A HYDROLOGIC SOIL **GROUP B**.
 

TYPICALLY PROFILE

    - A- 0 to 5in: VERY GRAVELLY SANDY LOAM
    - Bw1- 5 to 20in: VERY GRAVELLY SANDY LOAM
    - Bw2- 20 to 31in: VERY GRAVELLY SANDY LOAM
    - C - 31 to 60in: VERY GRAVELLY SANDY LOAM

PROPERTY AND QUANTITIES

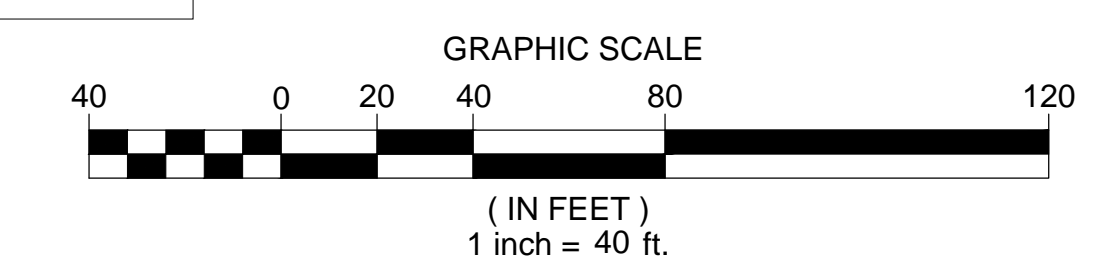
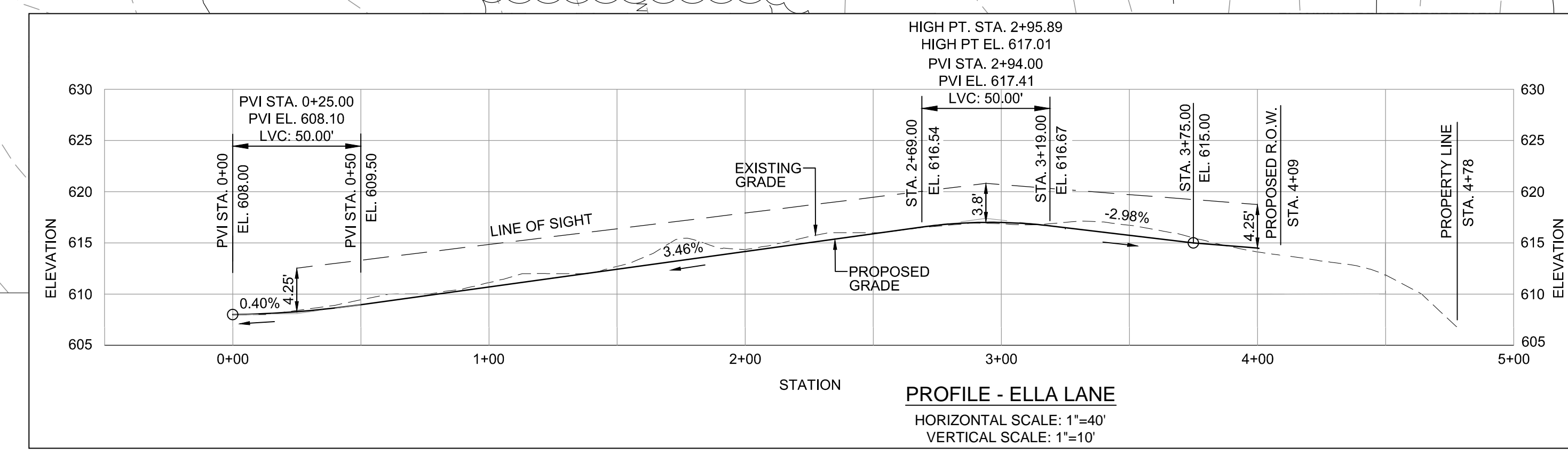
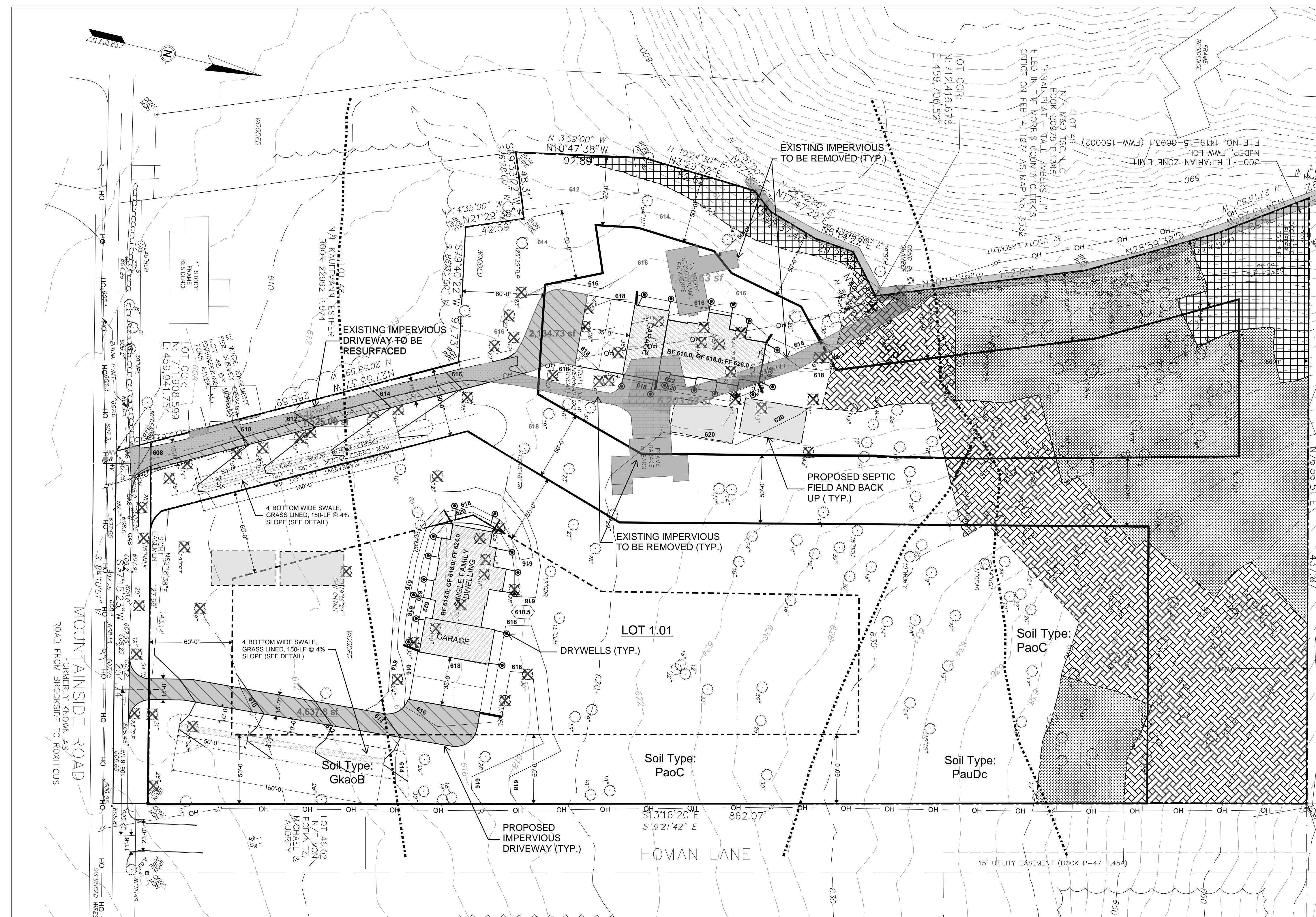
    - DEPTH TO RESTRICTIVE FEATURES: MORE THAN 80in
    - NATURAL DRAINAGE CLASS: SOMEWHAT EXCESSIVELY DRAINED
    - DEPTH TO WATER TABLE: MORE THAN 80in
  - SOIL TYPE "PauCc" IS PARKER-GLADSTONE COMPLEX, 0 TO 15 PERCENT SLOPES. USDA TEXTURE IS VERY GRAVELLY SANDY LOAM WITH A HYDROLOGIC SOIL **GROUP B**.
 

TYPICALLY PROFILE

    - A- 0 to 5in: VERY GRAVELLY SANDY LOAM
    - Bw1- 5 to 20in: VERY GRAVELLY SANDY LOAM
    - Bw2- 20 to 31in: VERY GRAVELLY SANDY LOAM
    - C - 31 to 60in: VERY GRAVELLY SANDY LOAM

PROPERTY AND QUANTITIES

    - DEPTH TO RESTRICTIVE FEATURES: MORE THAN 80in
    - NATURAL DRAINAGE CLASS: SOMEWHAT EXCESSIVELY DRAINED
    - DEPTH TO WATER TABLE: MORE THAN 80in



DATE	REVISIONS	BY
4-17-23	ADDED GRASS SWALE DETAIL	RM
4-1-2023	REMOVED RAINGARDENS	RM
4-1-2023	REVISED LOT 1 HSE LOCATION	RM



**CERTIFIED ENGINEERING OF NJ**  
 6 OLD FARMSTEAD ROAD  
 CHESTER NJ 07930  
 TEL. (908) 879-2663, FAX. (908) 879-9880  
 CERTIFICATE OF AUTHORIZATION - 24GA28095000

PROJECT No: \_\_\_\_\_  
 DATE: March 14, 2023  
 SCALE: 1" = 40'  
 CHECKED BY: RAM  
 DRAFTED BY: DC

*Anthony A. Mortezaei*  
**ANTHONY A MORTEZAI, PE, PP**  
 NJ LICENSE NO. 33920

SHEET: **GRADING, DRAINAGE PLAN AND PROFILE**  
**LOT 47 - BLOCK 116**  
 239 MOUNTAIN SIDE ROAD  
 TOWNSHIP OF MENDHAM  
 MORRIS COUNTY NEW JERSEY

SHEET **5** OF **9**



**Morris County Soil Conservation District  
Soil Erosion and Sediment Control Notes**

- 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.
- Any disturbed area that will be left exposed for more than thirty (30) days and not subject to construction traffic shall immediately receive a temporary seeding. If the season prohibits temporary seeding, the disturbed areas will be mulched with straw or hay and tacked in accordance with the New Jersey Standards. See Note 21 below.
- Permanent vegetation is to be established on exposed areas within ten (10) days after final grading. Mulch is to be used for protection until vegetation is established. See Note 22 below.
- Immediately following initial disturbance or rough grading, all critical areas (steep slopes, sandy soils, wet conditions) subject to erosion will receive a temporary seeding in accordance with Note 21 below.
- Temporary Diversion Berms are to be installed on all cleared roadways and easement areas. See the Diversion Detail.
- Permanent Seeding and stabilization to be in accordance with the "Standards for Permanent Vegetative Cover for Soil Stabilization Cover". Specified rates and locations shall be on the approved Soil Erosion and Sediment Control Plan.
- The site shall at all times be graded and maintained so that all stormwater runoff is diverted to Soil Erosion and Sediment Control Facilities.
- All sedimentation structures (silt fence, inlet filters, and sediment basins) will be inspected and maintained daily.
- Stockpiles shall not be located within 50' of a floodplain, slope, drainage facility, or roadway. All stockpiles bases shall have a silt fence properly entrenched at the toe of slope.
- A Stabilized Construction Access will be installed, whenever an earthen road intersects with a paved road. See the Stabilized Construction Access detail and chart for dimensions.
- All new roadways will be treated with suitable subbase upon establishment of final grade elevations.
- Paved roadways must be kept clean at all times.
- Before discharge points become operational, all storm drainage outlets will be stabilized as required.
- All dewatering operations must be discharged directly into a sediment filter area. The filter should be composed of a fabric or approved material. See the Dewatering detail.
- 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 installed on the site.

- During and after construction, the applicant will be responsible for the maintenance and upkeep of the drainage structures, vegetation cover, and any other measures deemed appropriate by the District. Said responsibility will end when completed work is approved by the Morris County Soil Conservation District.
- 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 to be protected with tree protection devices. See the Tree Protection detail.
- The Morris County Soil Conservation District may request additional measures to minimize on site or off-site erosion problems during construction.
- The Morris County Soil Conservation District must be notified, in writing, at least 72 hours prior to any land disturbance, and a pre-construction meeting held.
- Contractor to set up a meeting with the inspector for periodic inspections of the Temporary Sediment Basin prior to and during its construction.
- Topsoil Stockpile Protection**
  - Apply Ground Limestone at a rate of 90 lbs per 1000 sq. ft.
  - Apply fertilizer (10-20-10) at a rate of 11 lbs. per 1000 sq. ft.
  - Apply Perennial Ryegrass seed at 1 lb. per 1000 sq. ft. and Annual Ryegrass at 1 lb. per 1000 sq. ft.
  - Mulch stockpile with straw or hay at a rate of 90 lbs. per 1000 sq. ft.
  - Apply a liquid mulch binder or tack to straw or hay mulch.
  - Property entrench a silt fence at the bottom of the stockpile.

- Temporary Stabilization Specifications**
  - Apply Ground Limestone at a rate of 90 lbs per 1000 sq. ft.
  - Apply fertilizer (10-20-10) at a rate of 11 lbs. per 1000 sq. ft.
  - Apply Perennial Ryegrass seed at 1 lb. per 1000 sq. ft. and Annual Ryegrass at 1 lb. per 1000 sq. ft.
  - Mulch stockpile with straw or hay at a rate of 90 lbs. per 1000 sq. ft.
  - Apply a liquid mulch binder or tack to straw or hay mulch.
- Permanent Stabilization Specifications**
  - Apply topsoil to a depth of 5 inches (unsettled).
  - Apply Ground Limestone at a rate of 90 lbs per 1000 sq. ft. and work four inches into soil.
  - Apply fertilizer (10-20-10) at a rate of 11 lbs. per 1000 sq. ft.
  - Apply Hard Fescue seed at 2.7 lbs. per 1000 sq. ft. and Creeping Red Fescue seed at 0.7 lbs per 1000 sq. ft. and Perennial Ryegrass seed at 0.25 lbs per 1000 sq. ft.
  - Mulch stockpile with straw or hay at a rate of 90 lbs. per 1000 sq. ft.
  - Apply a liquid mulch binder or tack to straw or hay mulch.

**\*NOTE: 72 HOURS PRIOR TO ANY SOIL DISTURBANCE, NOTICE IN WRITING, SHALL BE GIVEN TO THE MORRIS COUNTY SOIL CONSERVATION DISTRICT AND A PRE-CONSTRUCTION MEETING HELD.**

MAY 2006

**ADDITIONAL SOIL EROSION & SEDIMENT CONTROL NOTES**

- Mulching in accordance to the State Standards is required for obtaining a Condition Report from the District. Conditional Reports are only issued when the season prohibits seeding.
- For dust control, if calcium chloride is used, it shall be spread in the form of loose dry granules or flakes fine enough to feed through commonly used spreaders at a rate that will keep surface moist but not cause pollution or plant damage. If used on steeper slopes, then use other practices to prevent washing into streams, ponds or any other waterways. See State Standards for Dust Control, page 16-1.
- Site Preparation:**
  - Grading of the site should be completed at the onset of the optimal seeding period so as to minimize duration and area of exposure of disturbed soil to erosion. Immediately proceed to establish vegetative cover in accordance with the specified seeding mixture. Timing is extremely important for seeding.
  - Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, for seeding, mulch application and anchoring, and maintenance. See the State Standards for Land Grading, page 19-1.
  - As guidance for ideal conditions, subsoil should be tested for lime requirement. Limestone, if needed, should be applied to bring soil to a pH of approximately 6.5 and incorporated into the soil as nearly as practical to a depth of 4 inches.
  - Immediately prior to topsoiling, the surface should be scarified 6" to 12" where there has been soil compaction. This will help insure a good bond between the topsoil and subsoil. THIS PRACTICE IS ONLY PERMISSIBLE WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLE, IRRIGATION SYSTEMS, ETC.).
  - Implement needed erosion control practices such as diversions, grade stabilization structures, channel stabilization measures, sedimentation basins, and waterways. See Standards pgs. 11-1 through 42-7.
- All disturbed areas shall be limed and fertilized prior to both temporary and permanent seeding.
 

**Seed Bed Preparation:** Apply limestone and fertilizer according to soil test recommendations such as those offered by Rutgers University Soil Testing Laboratory. If soil testing is not feasible, or if timing is critical, the fertilizer may be applied at the following rate:

  - Temporary Vegetative Cover:**
    - 10-20-10 Fertilizer @ 500 Lbs./Acre or 11 Lbs./1,000 Sq. Ft.
    - Pulverized Dolomitic Limestone @ 110 Lbs./1,000 Sq. Ft.

If seed is drilled over banded fertilizer, rate of fertilizer is reduced 50%.
  - Permanent Vegetative Cover:**
    - 10-20-10 Fertilizer @ 11 Lbs./1,000 Sq. Ft.
    - Pulverized Dolomitic Limestone @ 135 Lbs./1,000 Sq. Ft.
    - 38-0-0 Slow Release Nitrogen @ 7 Lbs./1,000 Sq. Ft. (in lieu of topdressing).
  - Work lime and fertilizer into the soil as nearly as practical to a depth of 4" with a disc, springtooth harrow, or other suitable equipment. The final harrowing or discing operation should be on the general contour. Continue tillage until a reasonably uniform, fine seedbed is prepared. All but clay or silty soils and coarse sands should be rolled to firm the seedbed wherever feasible.
  - Remove from the surface all stones 2" or larger in any dimension. Remove all other debris, such as wire, cable, tree roots, pieces of concrete, clods, lumps, or other unsuitable material.
  - Inspect seedbed just before seeding. If traffic has left the soil compacted, the area must be retilled and firmed as above.

- The following seeding mixtures shall be used for temporary and permanent vegetative cover as recommended by the Mercer County Conservation District. No hydroseeding is allowed.
  - Temporary Vegetative Cover:**  
Rye Grain @ 2.2 Lbs./1,000 Sq. Ft.  
OR IN ALTERNATE:  
Weeping Lovegrass @ 0.2 Lbs./1,000 Sq. Ft.  
Cover seeded areas with straw or hay mulch @ 70-90 Lbs./1,000 Sq. Ft.
  - Permanent Vegetative Cover:**  
(See Planting Plan for seed mix locations)  
Seed Mix, "C" @ 200 lbs/acre  
Rebel Jr. Tall Fescue @ 80% by weight  
Boron Kentucky Bluegrass @ 5% by weight  
Palmer 2 Perennial Ryegrass @ 15% by weight
  - Apply seed uniformly by hand, cyclone (centrifugal) seeder, drop seeder, drill, cultipacker seeder, or hydroseeder. The latter may be justifiable for large, steep areas where conventional vehicles cannot travel. Mulch shall not be included in the tank with the seed. Except for drilled, hydroseeded or cultipacked seedings, seed shall be incorporated into the soil, to a depth of 1/4 to 1/2 inch, by raking or dragging. Depth of seed placement may be 1/4 inch deeper on coarse textured soil.
  - After seeding, firming the soil with a corrugated roller will assure good seed-to-soil contact, restore capillarity, and improve seeding emergence. This is the preferred method. When performed on the contour, sheet erosion will be minimized and water conservation on site will be maximized.
- Mulching: Mulch will be unrotted small grain straw or salt hay spread uniformly at a rate of 70 to 90 lbs. per 1,000 square foot. The mulch will be anchored with a non-toxic hydro-bond spread at a rate of 4-1/2 - 8-1/3 gallons per 1,000 square foot. Mulch is required on all seeding.
- Hydroseeding and hydromulching are two separate operations. The hydroseeding tank may be accompanied by a small amount of mulch to promote consistency. Once the seeding operation has been completed, mulch, at the specified rate should then be applied. The use of hydromulch, as opposed to straw, is limited to the optimum seeding dates as noted in the Standards.
- Slopes in excess of 3:1 shall be stabilized with erosion control blankets, jute thatch matting, Curlex or the equivalent.
- Hydroseeding is a two step process. The first step includes seed, fertilizer, lime, etc. along with minimal amounts of mulch to promote consistency, good seed to soil contact, and give a visual indication of coverage. Upon completion of seeding operation, hydro-mulch should be applied at a rate of 1,500 lbs. per acre in a second step.
- The use of hydro-mulch, as opposed to straw, is limited to optimum seeding dates as listed in the standards.
- Topsoil should be friable, loamy, free of debris, objectionable weeds and stones, and contain no toxic substance or adverse chemical or physical condition that may be harmful to plant growth. Soluble salts should not be excessive (conductivity less than 0.5 millhos per centimeter. More than 0.5 millhos may designate seedlings and adversely impact growth). Topsoil hauled in from offsite should have a minimum organic matter content of 2.75 percent. Organic matter content may be raised by additives.
  - Topsoil substitute is a soil material which may have been amended with sand, silt, clay, organic matter, fertilizer or lime and has the appearance of topsoil. Topsoil substitutes may be utilized on sites with insufficient topsoil for establishing permanent vegetation. All topsoil substitute materials shall meet the requirements of topsoil noted above. Soil tests shall be performed to determine the components of sand, silt, clay, organic matter, soluble salts and pH level.
  - Topsoil should be handled only when it is dry enough to work without damaging soil structure; i.e., less than field capacity (see glossary).
  - A uniform application to a depth of 5 inches (unsettled) is recommended. Soils with a pH of 4.0 or less or containing iron sulfide shall be covered with a minimum depth of 12 inches of soil having a pH of 5.0 or more, in accordance with the Standard for Management of High Acid Producing Soil (pg. 1-1).

**MENDHAM TOWNSHIP  
SOIL EROSION AND SEDIMENT CONTROL NOTES**

- MORRIS COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL OF NEW JERSEY.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RECERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
- IN THAT N.J.S.A. 4:24-39 ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR EROSION CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES, ALL SITE WORK AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN THIRTY (30) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2-2 1/2 TONS PER ACRE, ACCORDING TO THE STANDARD FOR STABILIZATION WITH MULCH ONLY.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 1 1/2 - 2 TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF PRELIMINARY GRADING.
- ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (I.E. SLOPES GREATER THAN 3:1).
- THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAD OF CLEAN CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING THE CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE PAVED, INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF 1" - 2" STONE FOR A MINIMUM LENGTH OF 10' EQUAL TO THE LOT ENTRANCE WIDTH. ALL OTHER ACCESS POINTS SHALL BE BLOCKED OFF.
- ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY.
- PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING.
- AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE COMPLETED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID LEVEL PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.
- CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- UNFILTERED DEWATERING IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE TAKEN IN ACCORDANCE WITH STANDARDS FOR DEWATERING.
- SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARDS FOR DUST CONTROL.
- STOCKPILE AND STAGING LOCATIONS DETERMINED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING AREAS AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN. CERTIFICATION OF A NEW SOIL EROSION AND SEDIMENT CONTROL PLAN MAY BE REQUIRED FOR THESE ACTIVITIES IF THE AREA GREATER THAN 5,000 SQUARE FEET IS DISTURBED.
- ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #8.
- THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

**DUST CONTROL NOTES**

THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

MULCHES - SEE STANDARD FOR STABILIZATION WITH MULCHES ONLY (SEE THIS SHEET).

VEGETATIVE COVER - SEE STANDARD FOR TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, AND PERMANENT STABILIZATION WITH SOD. (SEE THIS SHEET).

SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

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 SPACED ABOUT 12 INCHES APART, AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

SPRINKLING - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, 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 GRANULATES OF FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS, OR ACCUMULATION AROUND PLANTS.

STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

TABLE 16-1 DUST CONTROL MATERIALS

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
ANIONIC ASPHALT EMULSION	7:01	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:01	FINE SPRAY	300
POLYACRYLAMIDE (PAM) - SPRAY ON	APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS.		
POLYACRYLAMIDE (PAM) - DRY ON	MAY ALSO HAVE BEEN USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS		
ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1,200

**GENERAL NOTES**

- ALL SITE WORK SHALL BE PERFORMED EXPEDITIOUSLY IN ORDER TO MINIMIZE THE TIME REQUIRED FROM BEGINNING OF THE CLEARING OPERATION TO THE CONSTRUCTION OF THE DWELLINGS AND DRIVEWAYS.
- PRIOR TO THE START OF ANY CONSTRUCTION, INSTALL HAY BALES/SILT FENCE AS SHOWN ON THE PLAN AND PROVIDE A CRUSHED STONE WHEEL CLEANING BLANKET AT ACCESS POINT OF 50' LONG, 6" DEEP, 2-1/2" 200' LONG CLEAN STONE.
- SPREAD SALT HAY OR STRAW OVER THOSE AREAS WHICH CANNOT BE SCHEDULED FOR COMPLETION WITHIN ONE WEEK AT A RATE OF 70 TO 90 LBS. PER 1,000 SQ. FEET.
- DIRT AND MUD SPILLAGE TO BE KEPT TO A MINIMUM AND CLEANED UP AT END OF EACH DAY'S WORK AS REQUIRED BY TOWNSHIP ORDINANCES.

**CONSTRUCTION SEQUENCE**

- INSTALLATION OF SEDIMENT BARRIERS / SILT FENCE AROUND PROJECT LIMITS OF DISTURBANCE - 1-WEEK
  - INSTALLATION OF STABILIZED CONSTRUCTION DRIVEWAYS WITH 6" OF 2-1/2" STONE, 50-LF - 1-WEEK
  - REMOVE TREES CLEAR SITE OF BRUSH AND REMOVE TREE STUMPS - 2-WEEKS
  - SCARIFY SUBSOIL TO A DEPTH OF 6-INCHES PRIOR TO PLACING TOPSOIL - 1-WEEK
  - TOPSOIL TO BE REMOVED AROUND DWELLING AREAS AND DRIVEWAYS, STOCKPILED AND TEMPORARILY SEEDED - 2-WEEKS
  - ~~SWALES/RAINBARDENS TO BE CUT AND TEMPORARILY SEEDED (IF REQUIRED) - 1-WEEK~~
  - CONSTRUCT DRIVEWAYS FOR DWELLINGS AND STABILIZED WITH 3/4" CLEAN STONES (SUB-BASE) - 2-WEEKS
  - ALL UTILITIES TO BE CONSTRUCTED UNDERGROUND - 2-WEEKS
  - DWELLINGS TO BE CONSTRUCTED, BACKFILLED, ROUGH GRADED AND STABILIZED - 14-WEEKS
- APPROXIMATE DURATION - 26-WEEKS

**SEEDING REQUIREMENTS**

SEEDING LISTED BELOW IS TO BE APPLIED AT A RATE OF 200-LBS. PER ACRE OF PERENNIAL SEED. OPTIMUM SEEDING PERIOD IS FROM MARCH 1ST TO MAY 15TH & AUG 15TH TO OCT 1ST., OUTSIDE OF THOSE PERIODS SEEDING RATES ARE TO BE INCREASED BY 50%.

SEEDING SHOULD RECEIVE AN APPLICATION OF 10-10-10 OR EQUIVALENT AT 400 LBS. PER ACRE APPROXIMATELY 6 MONTHS AFTER FIRST APPLICATION.

SEEDING RATE & MIXTURE FOR GENERAL AREA.  
40% TURF-TYPE TALL FESCUE  
10% CREEPING RED FESCUE  
10% CHEWINGS FESCUE  
10% KENTUCKY BLUEGRASS  
30% TURF-TYPE PERENNIAL RYEGRASS

- STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED IN ACCORDANCE WITH THE STABILIZED CONSTRUCTION ENTRANCE DETAIL EXCEPT FOR DIMENSIONS SHOWN ABOVE.
- THE STOCKPILE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOPSOIL STOCKPILE DETAIL.
- ALL SILT FENCE SHALL BE PROVIDED IN ACCORDANCE WITH THE SILT FENCE DETAIL. SILT FENCE SHALL BE PROVIDED ON THE DOWNHILL SIDE OF ANY AND ALL DISTURBANCE.
- ANY DISTURBED AREA REMAINING DISTURBED FOR MORE THAN 30 DAYS SHALL BE STABILIZED.
- ALL DISTURBED AREAS SHALL BE STERILIZED IN ACCORDANCE WITH THE MINIMUM STABILIZATION REQUIREMENTS FOR PERTINENT STABILIZATION PRIOR TO RECEIVING A CERTIFICATE OF ACCURACY PURSUANT TO THE CENTRAL REVISED ORDINANCE OF BERNARDS TOWNSHIP.

**STANDARD CONSTRUCTION NOTES FOR ROAD IMPROVEMENT**

- PRIOR TO THE INITIATION OF ANY EXCAVATION OR CONSTRUCTION WITH ANY STREET, ROAD, OR RIGHT OF WAY UNDER THE JURISDICTION OF THE MORRIS COUNTY BOARD OF CHOSEN FREEHOLDERS, A MORRIS COUNTY ROAD OPENING PERMIT SHALL BE OBTAINED FROM THE OFFICE OF THE COUNTY ENGINEER. ALL EXISTING STRUCTURES, INCLUDING FENCES, SHOULD BE REMOVED (UNLESS OTHERWISE SPECIFIED ON THE PLANS).
- THE OFFICE OF THE COUNTY ENGINEER IS TO BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF COMMENCEMENT OF CONSTRUCTION OF ANY IMPROVEMENTS UNDER THE JURISDICTION OF THE COUNTY OF MORRIS. GRADE CONSTRUCTION SHEETS WILL BE SUBMITTED AT THIS TIME. THESE GRADE CONSTRUCTION SHEETS ARE TO BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR.
- AS INDICATED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," PROPER AND SUFFICIENT CONSTRUCTION WARNING SIGNS ARE TO BE PROVIDED AND MAINTAINED BY CONTRACTORS PERFORMING CONSTRUCTION WORK ALONG COUNTY ROADS. SAID SIGNS ARE TO BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND APPROVED BY THE APPROPRIATE COUNTY INSPECTION PERSONNEL.
- ALL IMPROVEMENTS UNDER THE JURISDICTION OF THE COUNTY OF MORRIS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH MORRIS COUNTY SPECIFICATIONS.
- ALL MAILBOXES LOCATED WITHIN THE CONSTRUCTION IMPROVEMENTS IN THE COUNTY R.O.W. WILL BE RESET IN ACCORDANCE WITH THE OWNER OF THE MAILBOX AND THE POSTMASTER.
- INFORMATION MONUMENTS, MARKERS, DISKS, RIVETS OF THE NATIONAL GEODETIC CONTROL SURVEY MAY BE OBTAINED FROM THE NEW JERSEY DEPARTMENT OF TRANSPORTATION, GEODETIC DIVISIONS, 1035 PARKWAY AVENUE, TRENTON, NJ, TELEPHONE 11(609)530-5641; OR THE MORRIS COUNTY ENGINEERING DIVISIONS, TELEPHONE 4 (908)231-7024, EXT. 7253.
- THE NEW JERSEY GEODETIC CONTROL SURVEY, AT THE ABOVE ADDRESS, IS TO BE NOTIFIED TWO(2) WEEKS IN ADVANCE OF COMMENCEMENT OF CONSTRUCTION OF ANY IMPROVEMENTS IN ORDER TO PRESERVE THE RESETTING OF EXISTING MONUMENTS, OR INSTALLATION OF NEW MONUMENTS IF REQUIRED BY THE COUNTY.
- THERE SHALL BE NO LAND DISTURBANCE RELATED TO THE DEVELOPMENT OF AN INDIVIDUAL LOT PRIOR TO THE TREE REMOVAL AND REPLACEMENT PLAN FOR THAT INDIVIDUAL LOT BEING APPROVED BY THE TOWNSHIP ENGINEER.

**NOTES FOR DETENTION BASINS / RAINBARDENS:**

- ALL BORINGS AND TEST PITS PERFORMED COMPLY WITH THE PROCEDURES OUTLINED IN CHAPTER 12 OF THE NJDEP BMP MANUAL.
- ALL ON-SITE INFILTRATION TESTING PERFORMED COMPLY WITH CHAPTER 12 OF THE NJDEP BMP MANUAL.
- ALL TEST PITS AND BORINGS WERE BACKFILLED AND COMPACTED AT THE END OF TESTING ON A DAILY BASIS.
- ALL TEST PITS, BORINGS AND INFILTRATION TESTING WERE WITNESSED AND PERFORMED UNDER THE SUPERVISION OF THE MORRIS COUNTY DEPARTMENT OF HEALTH.
- ALL SOIL BORINGS, TESTING, DATA AND ANALYSES WERE PERFORMED BY VANCELEEFENGINEERING ASSOCIATES, 32 BROWER LANE, HILLSBOROUGH, NJ 08844, DATED 2/25/2020, SIGNED BY MICHAEL K. FORD, NJPE NO. 24GE03472200.
- PREDOMINANT SOILS GROUP ARE TYPE "B" SOILS.

3/27/2023	REVISE CONST. SEQUENCE PER MCSCD	RM
DATE	REVISIONS	BY



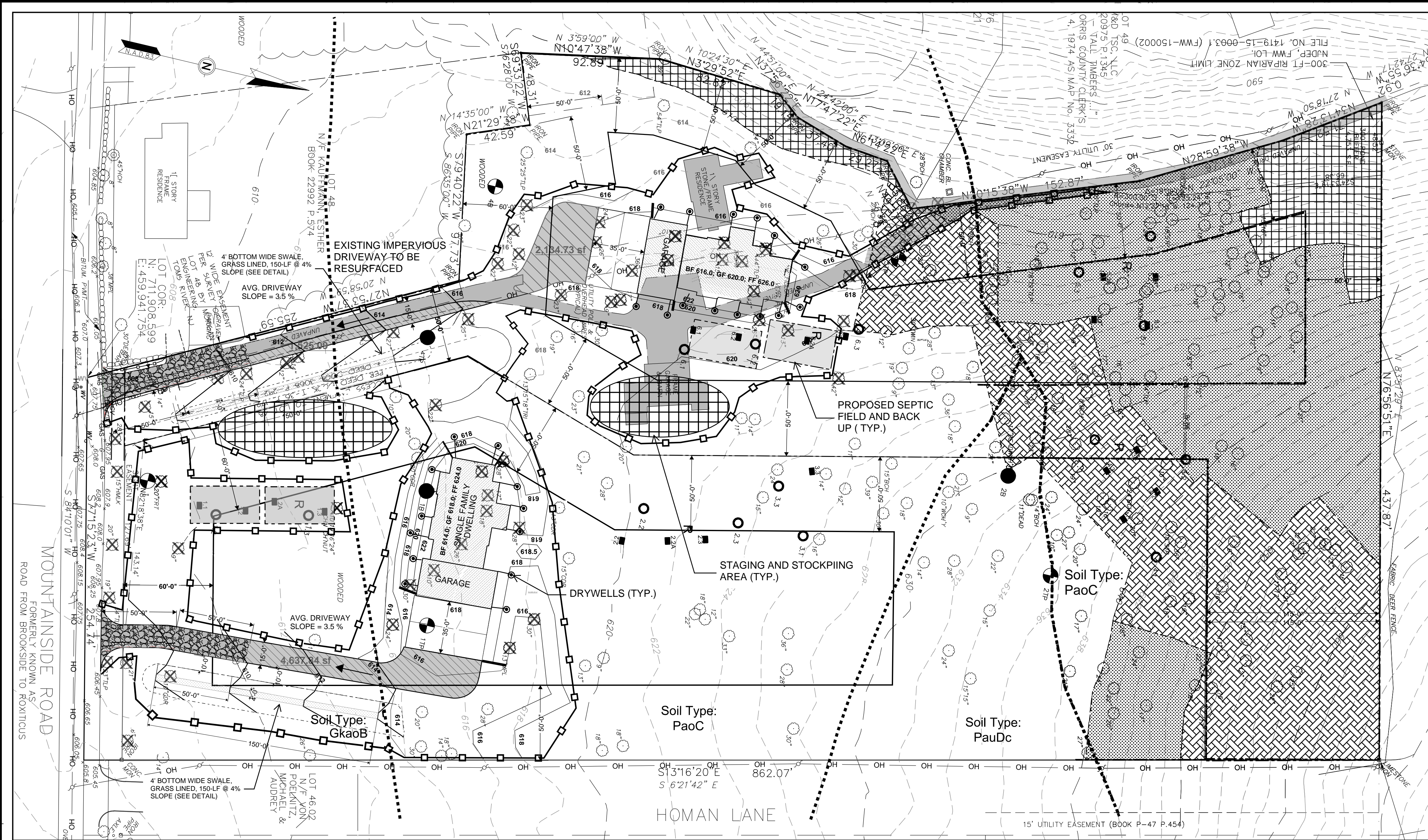
**CERTIFIED ENGINEERING OF NJ**  
6 OLD FARMSTEAD ROAD  
CHESTER NJ 07930  
TEL. (908) 879-2663, FAX. (908) 879-9880  
CERTIFICATE OF AUTHORIZATION - 24GA28095000

PROJECT No: \_\_\_\_\_  
DATE : March 14, 2023  
SCALE : 1" = 40'  
CHECKED BY: RAM  
DRAFTED BY: DC

*Anthony A. Mortezaei*  
**ANTHONY A MORTEZAI, PE, PP**  
NJ LICENSE NO. 33920

SHEET: SOIL EROSION AND SEDIMENT CONTROL NOTES	SHEET 6
LOT 47 - BLOCK 116 239 MOUNTAINSIDE ROAD TOWNSHIP OF MENDHAM MORRIS COUNTY NEW JERSEY	9

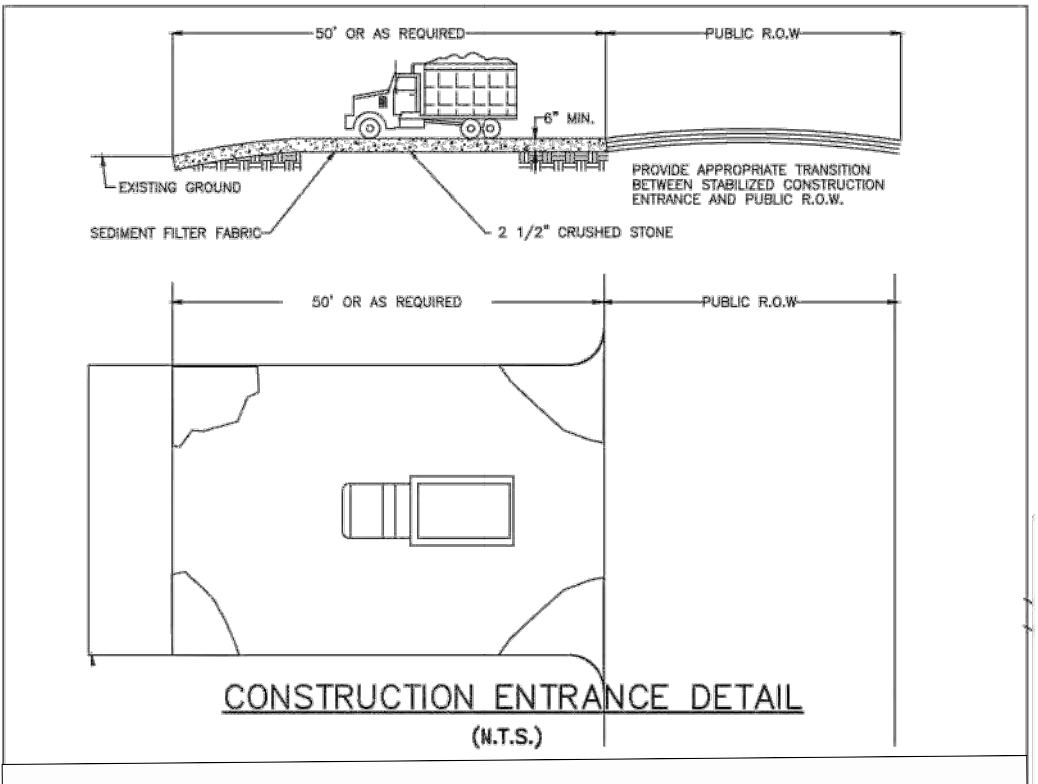
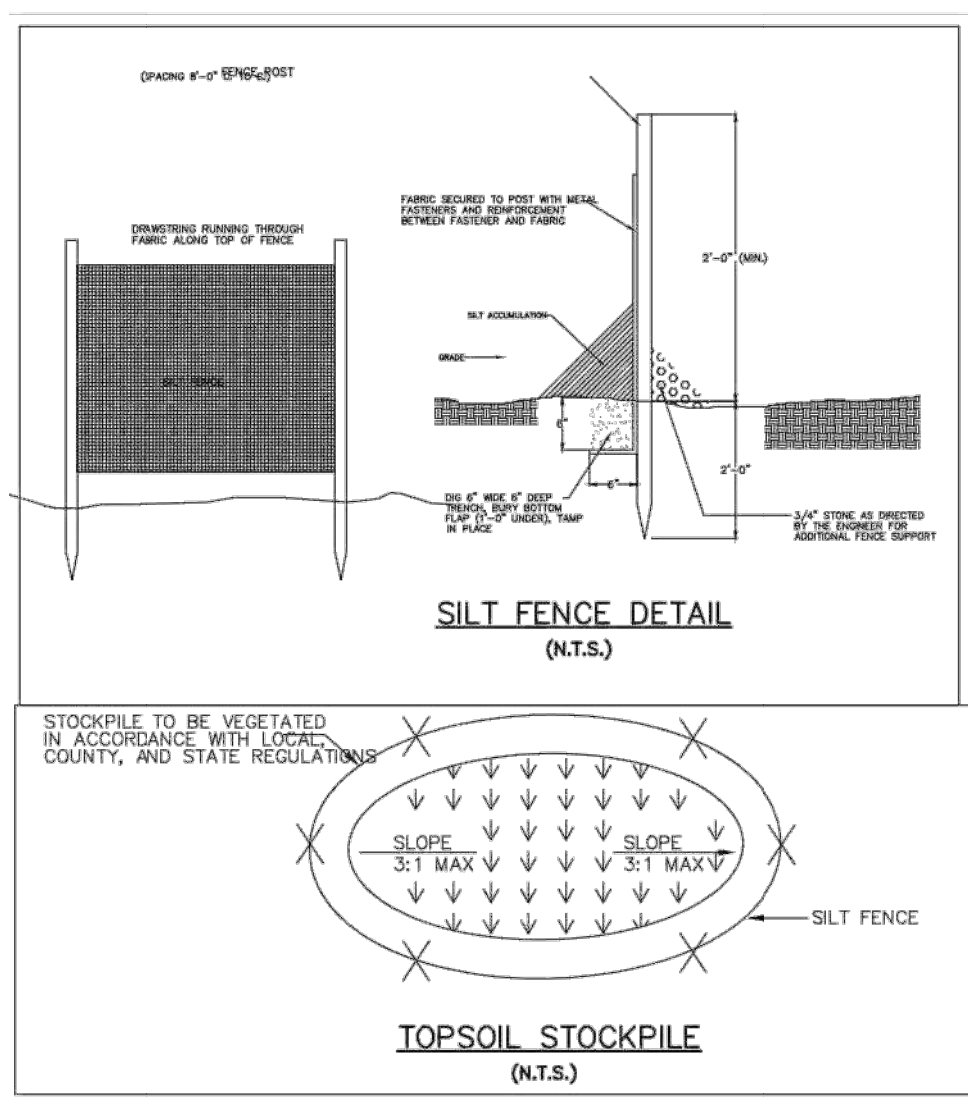




- GENERAL NOTES:**
- OWNER/APPLICANT:  
6 OLD FARMSTEAD ROAD  
CHESTER, NJ 07930  
973-879-2663, FAX: 908-879-9880
  - BOUNDARY INFORMATION SHOWN HEREON WAS TAKEN FROM A PLAN ENTITLED "TOPOGRAPHIC SURVEY, LOT 47 BLOCK 116, 239 MOUNTAINSIDE ROAD, TOWNSHIP OF MENDHAM, MORRIS COUNTY, NJ, PREPARED BY SCHAN ASSOCIATES, 41 HORSENECK ROAD, MONTVILLE NJ 07045, DATED 6/15/2017.
  - ALL ELEVATION GIVEN ARE ON BASED ON DATUM = NAVD 1988, NAD 83.
  - THE SUBJECT PARCEL, BLOCK 116 LOT 47, CONSISTS OF 326,507 S.F. (7.4956 ACRES)
  - NO PUBLIC SEWER SYSTEM SERVICE THE SITE.
  - ALL SOIL BORINGS, TESTING, DATA, AND ANALYSES PERFORMED BY VAN CLEEF ENGINEERING ASSOCIATES, 32 BROWER LANE, HILLSBOROUGH, NJ 08844, DATED 2/25/2020, SIGNED BY MICHAEL K. FORD, NJPE No. 34722.
  - PREDOMINANT SOIL GROUP ARE TYPE "B" SOILS.

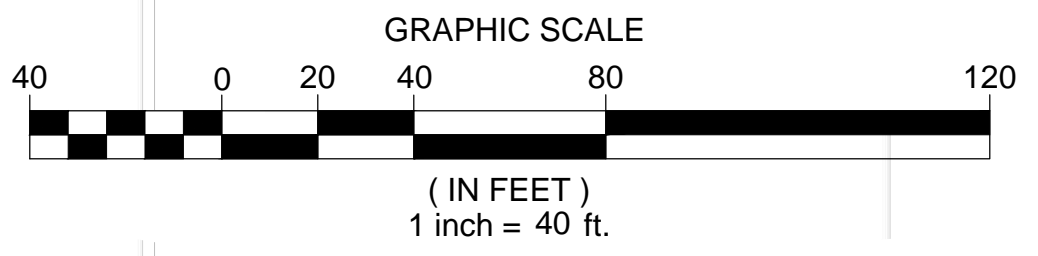
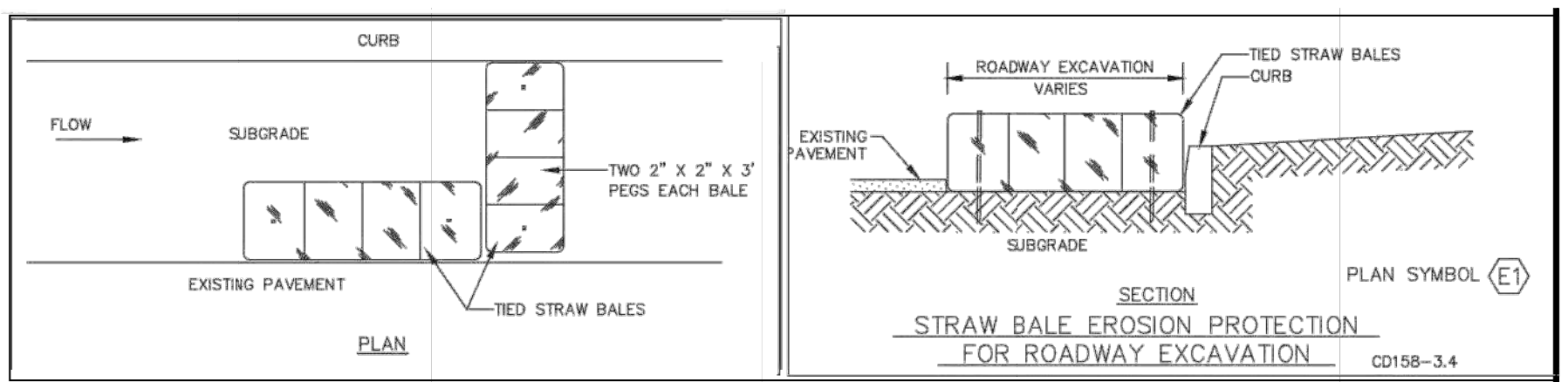
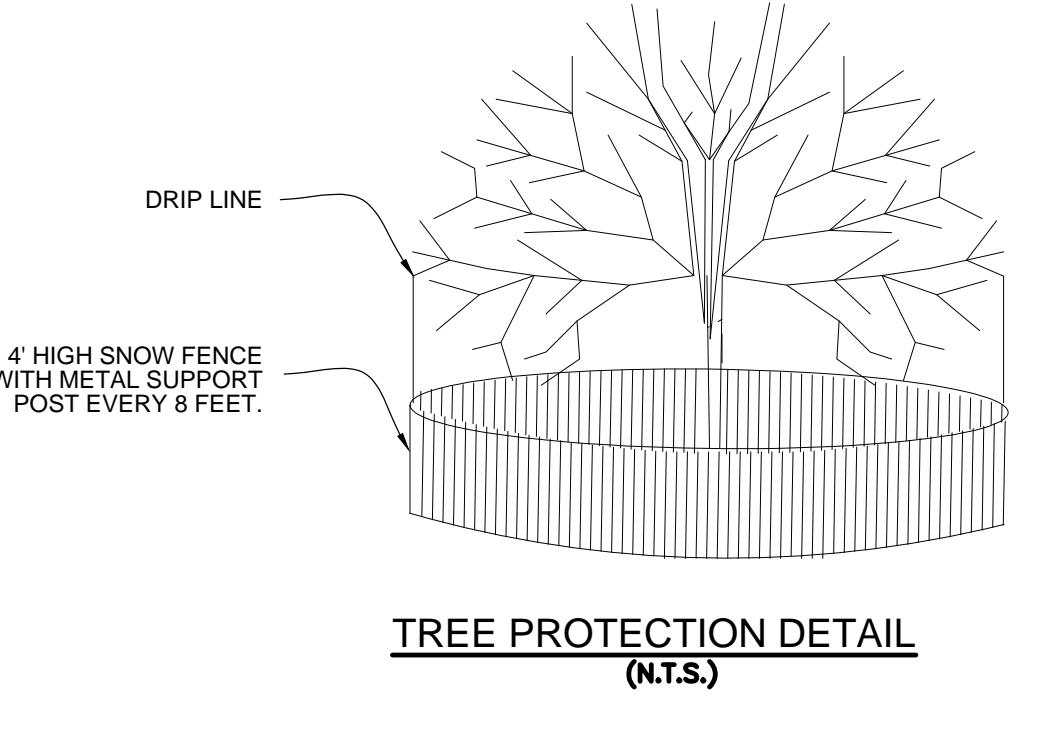
- ADDITIONAL NOTES:**
- All borings and test pits, comply with procedures outlined in Appendix E of the NJ SWM BMP manual.
  - All On-site Infiltration testing performed comply with Appendix E of the NJ SWM BMP manual
  - All test pits and borings shall be backfilled and compacted at the end of testing on a daily basis.
  - No soil Scarification, De-Compaction and testing is proposed. The existing soils are granular sandy soils and no large rocks or boulders are present. The site is mostly wooded and undisturbed and no excessively compacted soils are present. Testing was conducted for Septic investigation/design and witnessed by the Morris County Health Department. Soils were found to be granular and sandy, no ground water or mottles were encountered. A separate set of Plans indicating the results and of the Boring Logs and Test Pits performed are provided.
  - All Topsoil removed from the site will be temporarily stockpiled, seeded and reused.

- LEGEND**
- SILT FENCE AND LIMIT OF DISTURBANCE (TYP.)
  - STABILIZED CONSTRUCTION ENTRANCE (TYP.)
  - STAGING AND STOCKPIPING AREAS (TYP.)
  - SOIL TYPE RIDGE LINE
  - 2B BORING FOR DETENTION BASIN/RAIN GARDEN
  - 2.2 TEST PIT FOR SEPTIC FIELDS
  - 11P TEST PIT FOR SEPTIC FIELDS
  - R RESERVE SEPTIC FIELD
  - PROPOSED SEPTIC FIELD & BACKUP
  - TEMPORARY DIVERSION BERM NOT TO SCALE



Percent Slope of Roadway	Length of Stone Required	
	Coarse 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!	

1. As prescribed by local ordinance or other governing authority.



DATE	REVISIONS	BY
4-17-23	ADDED GRASS SWALE DETAIL	RM
4-1-2023	REMOVED RAINGARDENS	RM
4-1-2023	REVISED LOT 1 HSE LOCATION	RM



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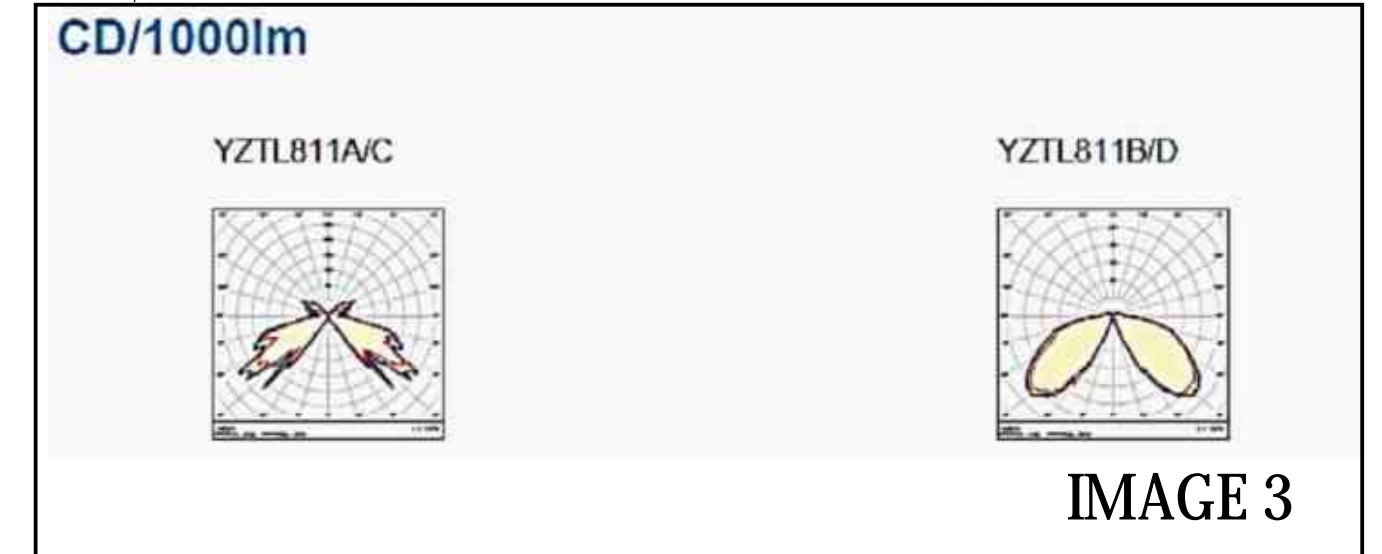
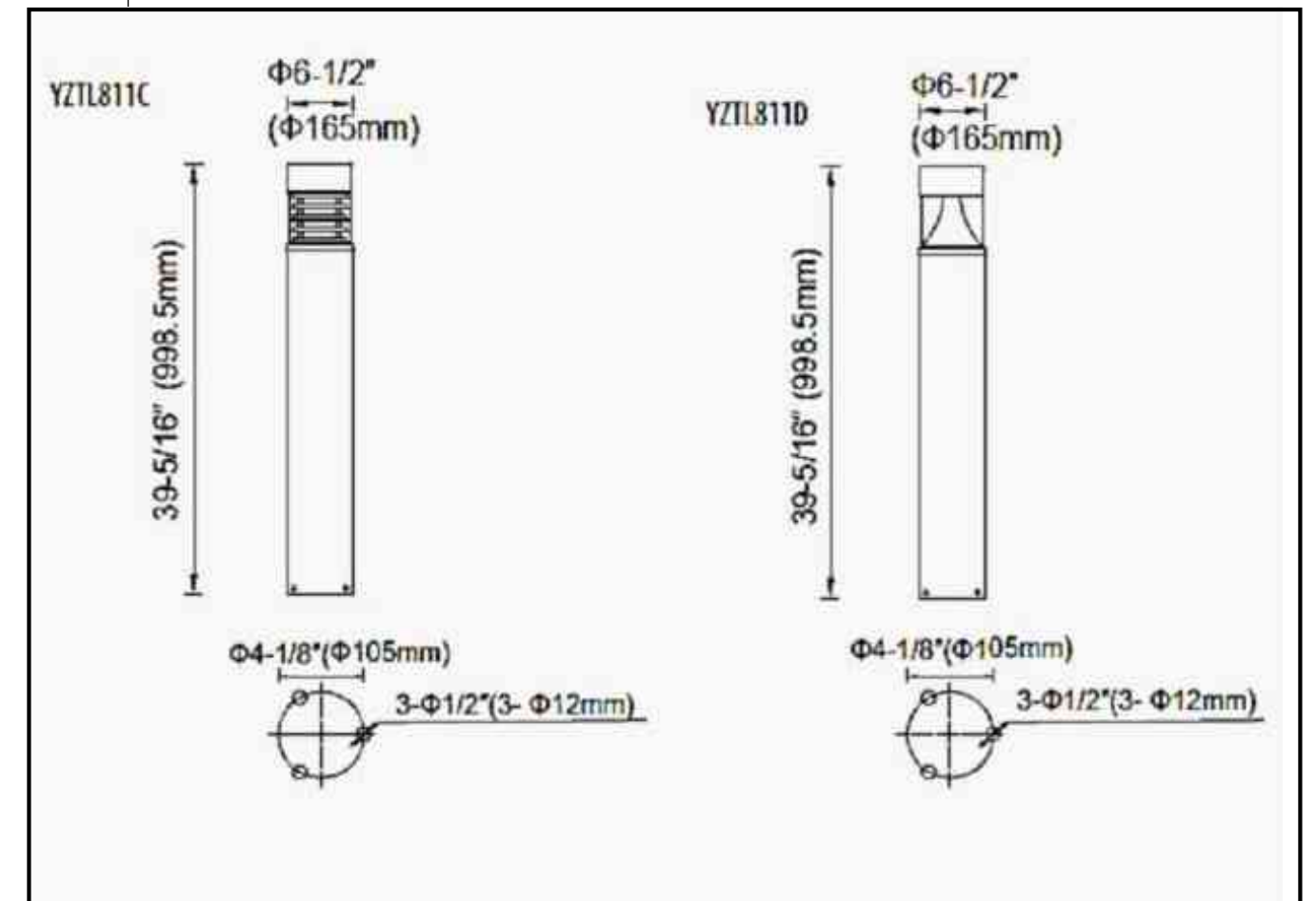
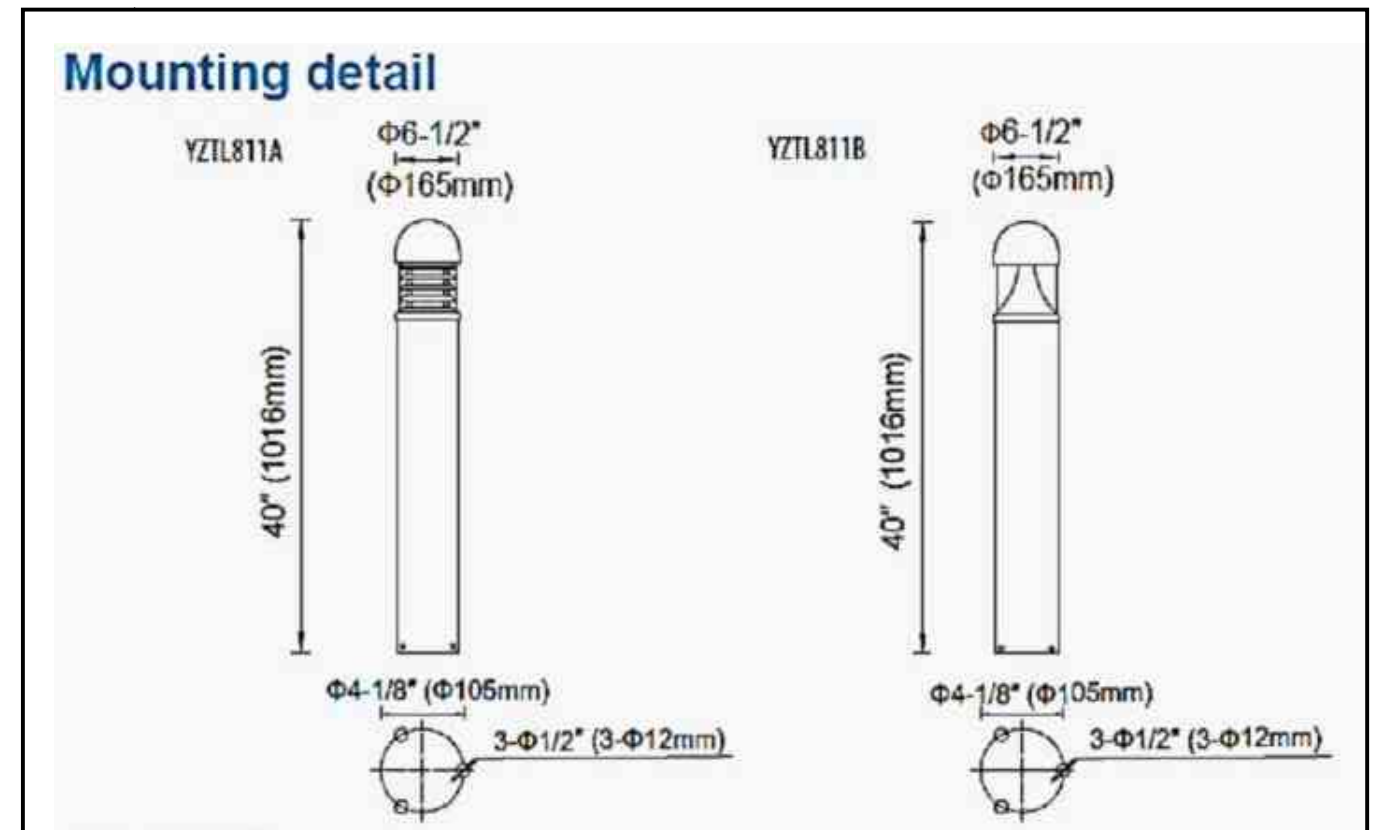
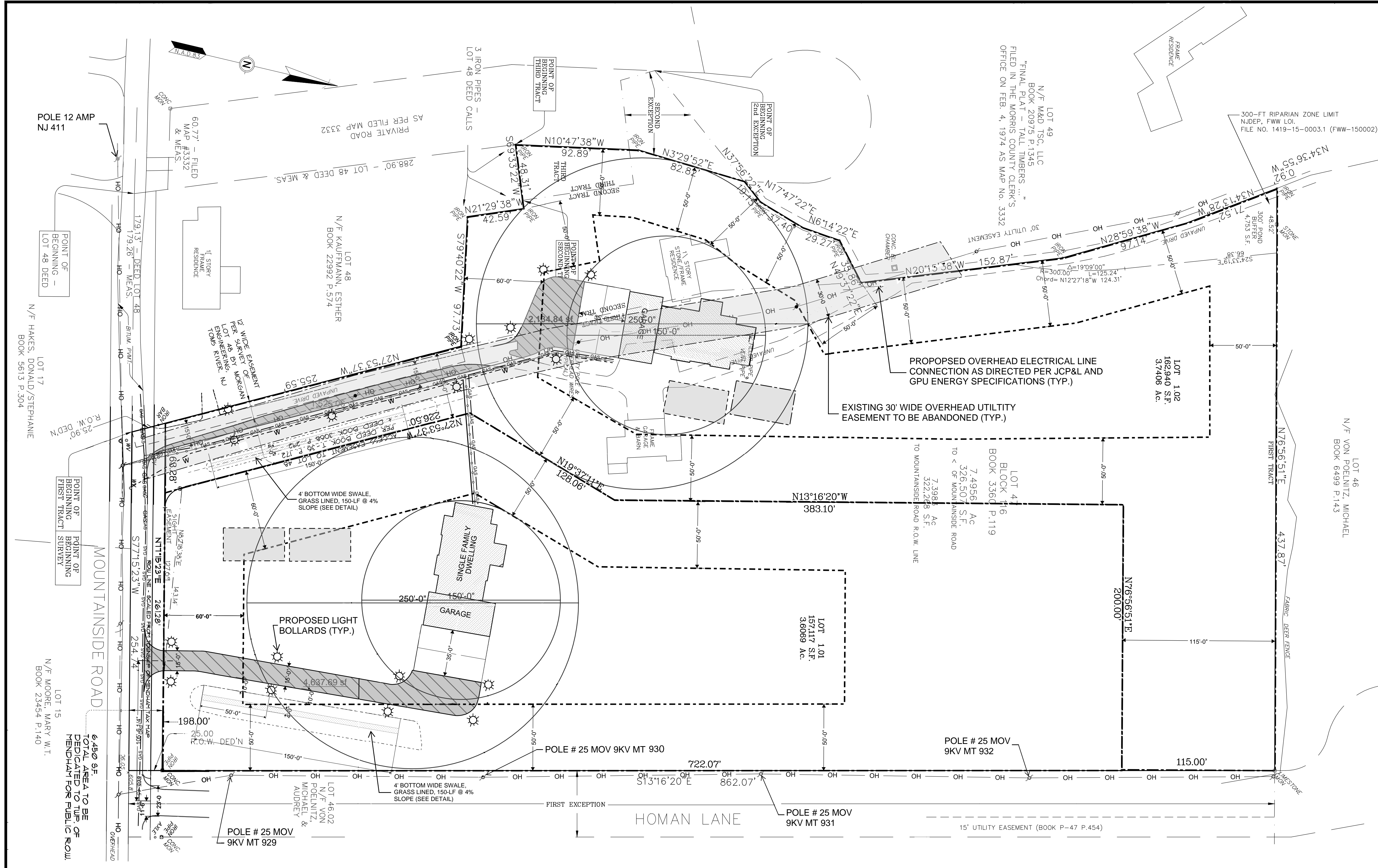
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 DRAFTED BY: DC

*Anthony A. Mortezaei*  
**ANTHONY A MORTEZAI, PE, PP**  
 NJ LICENSE NO. 33920

SHEET: SOIL EROSION AND SEDIMENT CONTROL PLAN & DETAILS  
 LOT 47 - BLOCK 116  
 239 MOUNTAINSIDE ROAD  
 TOWNSHIP OF MENDHAM  
 MORRIS COUNTY NEW JERSEY

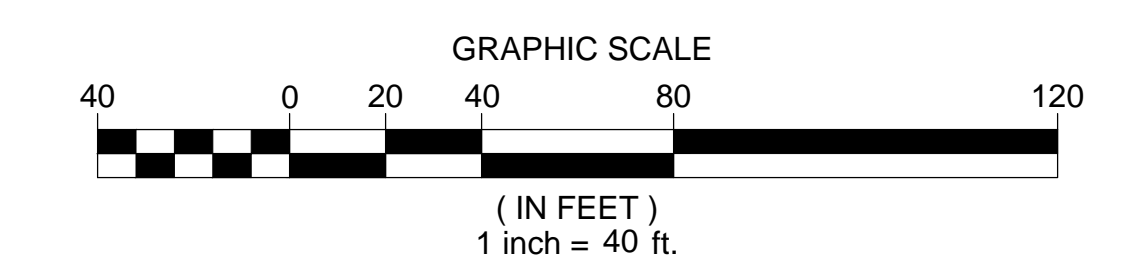
SHEET  
**7**  
**9**  
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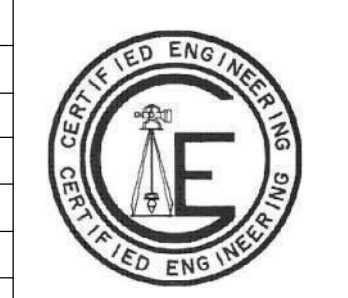
**LEGEND**

- UGE — UNDERGROUND ELECTRIC LINE
- W — UNDERGROUND WATER LINE
- GAS — UNDERGROUND GAS LINE
- ☀ PROPOSED LIGHTS
- PROPOSED TELEPHONE, ELECTRIC AND CABLE JUNCTION BOX
- ⚡ EXISTING UTILITY POLE TO BE REMOVED



- GENERAL UTILITY NOTES:**
- THERE IS NO PUBLICSEWER SYSTEM SERVICE ON SITE. THE SITE PROPOSES SEPTIC SYSTEM. ALL SEPTIC SYSTEMS WILL BE DESIGNED TO AND WILL COMPLY WITH THE STANDARDS ADOPTED IN N.J.A.C. 7:9A IN 2012.
  - ELECTRIC SERVICE WILL BE PROVIDED BY JCP&L. ALL ELECTRIC SERVICE IS PROPOSED UNDERGROUND. POWER WILL BE TAKEN FROM THE EXISTING POLE ON MOUNTAINSIDE ROAD. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY AND THE TOWNSHIP OF MENDHAM FOR THE INSTALLATION OF ALL UNDERGROUND ELECTRIC SERVICE.
  - GAS SERVICE WILL BE PROVIDED BY PSE&G. TELEPHONE SERVICE WILL BE PROVIDED BY VERIZON. CABLE SERVICE WILL BE PROVIDED BY COMCAST OR CURRENT PROVIDER. ALL SERVICES WILL BE Routed FROM MOUNTAINSIDE ROAD AND PROVIDED AS UNDERGROUND SERVICE, VIA THE PROPOSED EASEMENT FOR THE COMMON DRIVEWAY REFERENCED AS ELLA LANE. THE CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES, THE TOWNSHIP OF MENDHAM AND THE RESIDENT ENGINEER. ALL LOCATIONS AND SIZES SHOWN ARE APPROXIMATE, AND SHALL BE VERIFIED WITH EACH UTILITY COMPANY AND ON-SITE PRIOR TO INSTALLATION. TESTING AND CONNECTIONS OF GAS AND WATER SERVICES SHALL BE COORDINATED WITH AND RECEIVE FINAL APPROVALS FROM THE RESPECTIVE UTILITY COMPANY AND THE TOWNSHIP OF MENDHAM TO ENSURE THERE ARE NO LEAKS. ALL LEAKS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER OR THE TOWNSHIP OF MENDHAM.
  - ALL EXISTING UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED AND/OR LOCATED. ALL UTILITY LOCATIONS ARE APPROXIMATE AS TO SIZE AND LOCATIONS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES VIA NJ ONE CALL (1-800-272-1000) PRIOR TO THE START OF ANY WORK OR EXCAVATION TO HAVE THE UTILITIES MARKED OUT. UTILITY INFORMATION SHOWN HAVE BEEN TAKEN FROM VARIOUS SOURCES AND NOT GUARANTEED AS TO THE ACCURACY OR COMPLETENESS.
  - AT LEAST THREE BUSINESS DAYS PRIOR TO OUTDOOR CONSTRUCTION OR DIGGING, THE CONTRACTORS AND PROPERTY OWNERS - WHOEVER IS EXCAVATING MUST CALL (1) ONE CALL AT 811 OR 800-272-1000 AND TAKE THE FOLLOWING STEPS; WAIT FOR THE SITE TO BE MARKED WITH PAINT, FLAGS OR STAKES BY THE LOCAL UTILITY COMPANY. ALL WORK SHALL BE COORDINATED WITH: (1) CENTRAL POWER AND LIGHT, VICTORIA BOXLER, 300 MADISON AVENUE, MADISON NJ 07962 (VBOXLER@FIRSTENERGYCORP.COM), WORK (973) 401-8419.
  - ALL EXISTING UTILITY EASEMENTS ON SITE SHALL BE VACATED AND ABANDONED. THE CONTRACTOR SHALL VERIFY THE EXISTING UTILITY LINE LOCATIONS AND POLES AND REMOVED THEM FROM THE SITE, VIA ELLA LANE. ALL CONNECTIONS FOR THE PROPOSED UNDERGROUND LINES, CABLES AND CONDUITS WILL BE MADE FROM MOUNTAINSIDE ROAD, CONTINUE UNDERGROUND AND CONNECTED BACK TO THE EXISTING POWER POLE AT BLOCK 116, LOT 49, PER PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE TOWNSHIP OF MENDHAM, PROPERTY OWNERS AND THE RESIDENT ENGINEER BEFORE DE-ENERGIZING AND CONNECTING THE LINES TO THE RESPECTIVE POLES. CONDUITS SHALL BE INSTALLED FIRST AND DE-ENERGIZING AND CONNECTIONS SHALL BE DONE ONCE ALL UNDERGROUND LINES ARE IN PLACE TO THE SATISFACTION OF THE RESIDENT ENGINEER, THE TOWNSHIP OF MENDHAM AND ALL RESPECTIVE UTILITY COMPANIES.
  - CONTRACTOR IS REQUIRED TO COORDINATE WITH NJ AMERICAN WATER COMPANY AND THE MENDHAM TOWNSHIP ENGINEERING OFFICES AND IDENTIFY ALL SHUT OFF VALVES. THE CONTRACTOR IS REQUIRED TO REMOVE THE EXISTING 1/2 INCH LINE ON THE EASTERLY SIDE OF ELLA LANE AND CONTINUE TO THE PROPOSED HOUSE.
  - ALL WATER LINES SHALL BE PROPERLY PRESSURE TESTED. NO BACKFILLING IS ALLOWED UNTIL SUCH TIME AS ALL LINES HAVE BEEN PRESSURE TESTED AND PASSED ALL TESTING REQUIREMENTS (MIN. 55-PSI TO 60-PSI), AS PER THE TOWNSHIP OF MENDHAM AND THE UTILITY COMPANY SPECIFICATIONS AND REQUIREMENTS.
  - ALL PROPOSED UTILITY CONNECTIONS SHALL BE ACCOMPLISHED WITHOUT THE REMOVAL OF EXISTING LARGE TREES TO THE MAXIMUM EXTENT PRACTICAL. ALL THE EXISTING TREES ARE SHOWN ON SHEETS 4.5 AND 7 OF 9, OF THE CONSTRUCTION PLANS.
  - THE GENERAL CONTRACTOR SHALL MAKE THE SAFETY OF THE PUBLIC HIS NUMBER ONE CONCERN WHILE WORKING ON MOUNTAINSIDE ROAD. THE GENERAL CONTRACTOR SHOULD COOPERATE /COORDINATE WITH THE UTILITY COMPANIES, MENDHAM TOWNSHIP DEPARTMENT OF PUBLIC WORKS, AND THE POLICE DEPARTMENT, 72 HOURS PRIOR TO ANY CONSTRUCTION, EXCAVATION, AND/OR REMOVAL OF OVERHEAD WIRES, AND INSTALL ALL REQUIRED MAINTENANCE AND PROTECTION OF TRAFFIC DEVICES, SUCH AS SIGNS, CONES, BARRELS, SIGNALS ETC., AS NEEDED TO PROTECT THE SAFETY OF THE TRAVELING PUBLIC AND LOCAL TOWNSHIP RESIDENTS.

DATE	REVISIONS	BY
4-23-23	REVISED UTILITY LOCATIONS	RM
4-17-23	ADDED GRASS SWALE DETAIL	RM
4-1-2023	REMOVED RAINGARDENS	RM
4-1-2023	REVISED LOT 1 HSE LOCATION	RM
3-28-23	DELETED NOTE	RM
DATE	REVISIONS	BY



**CERTIFIED ENGINEERING OF NJ**  
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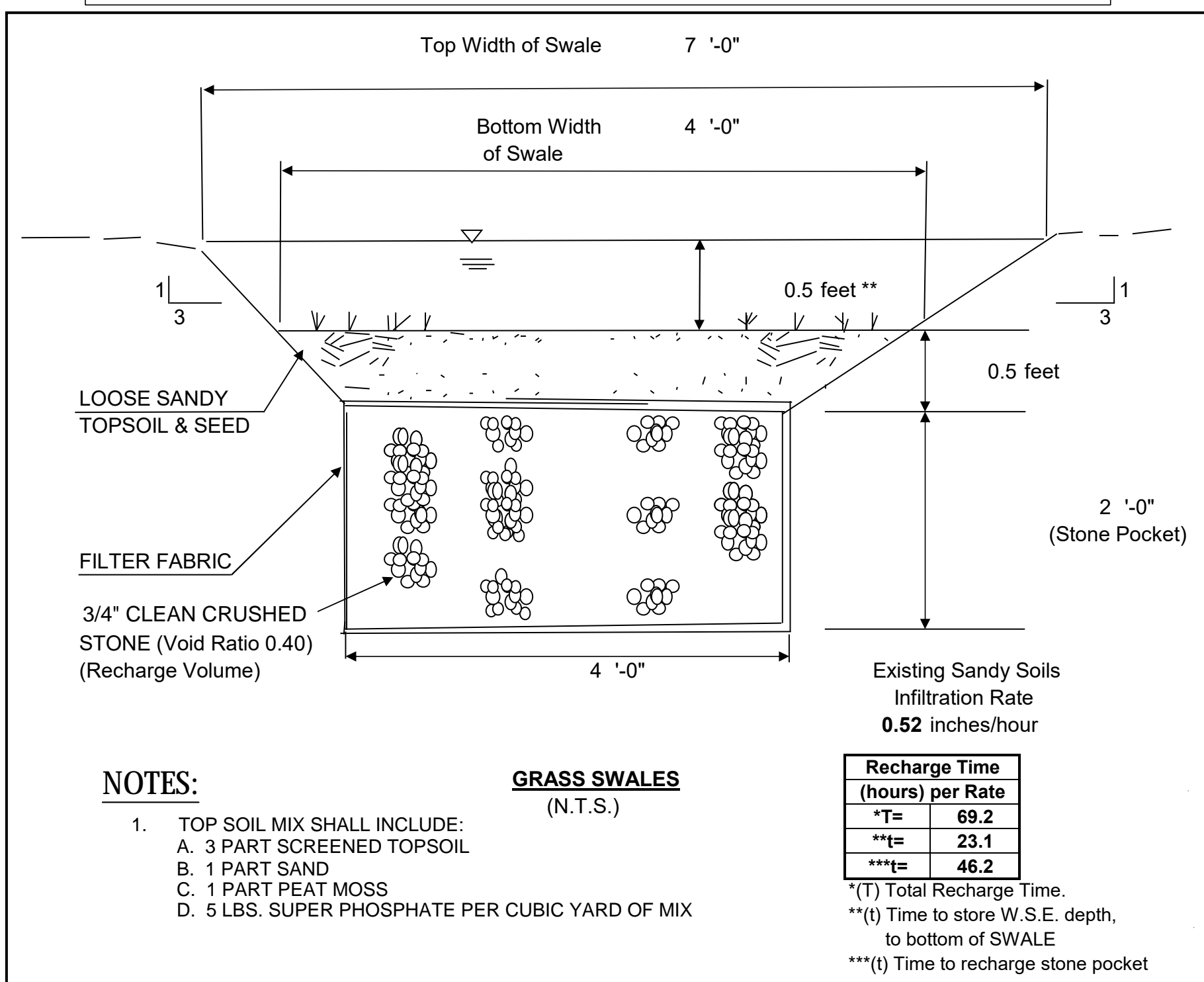
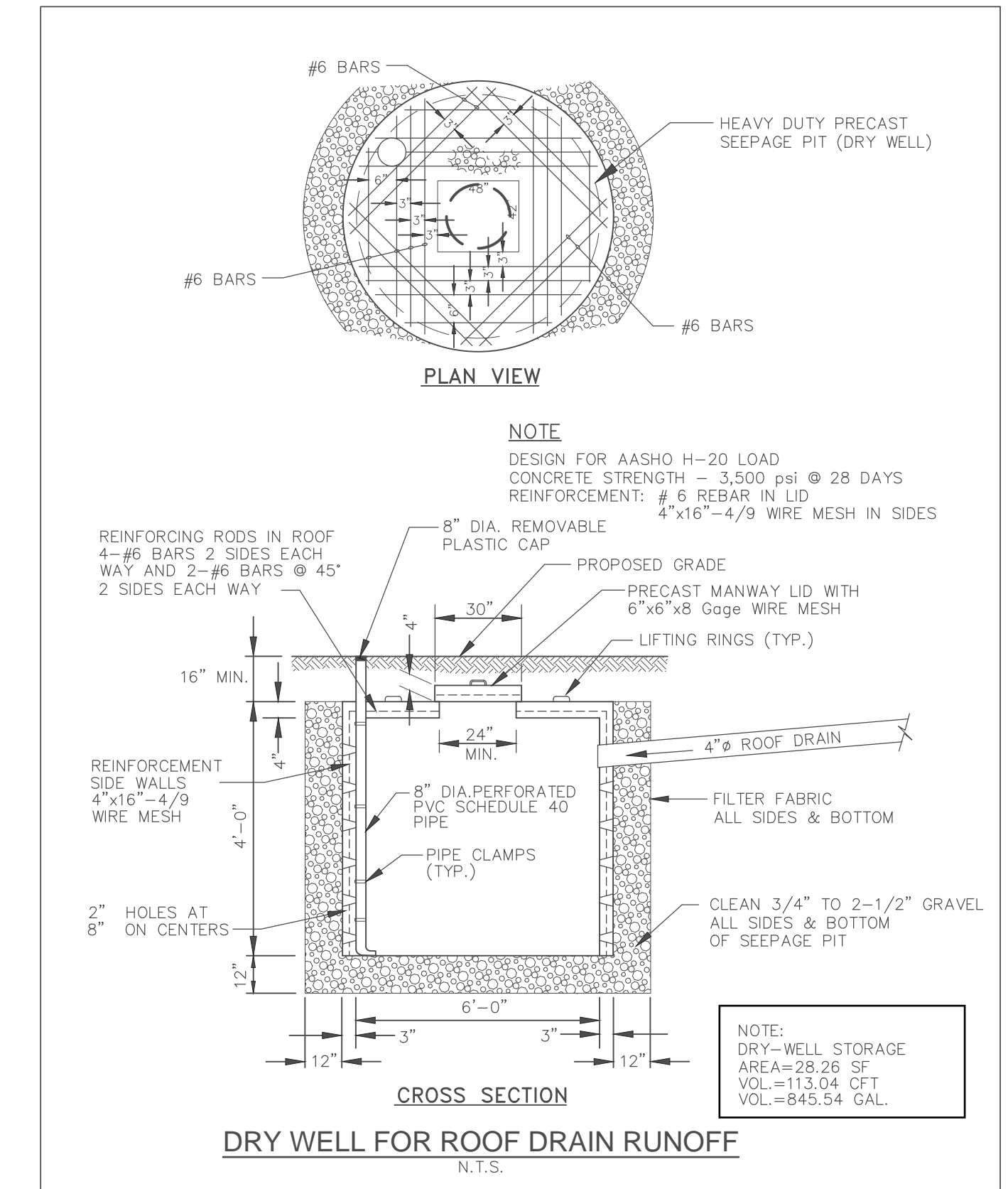
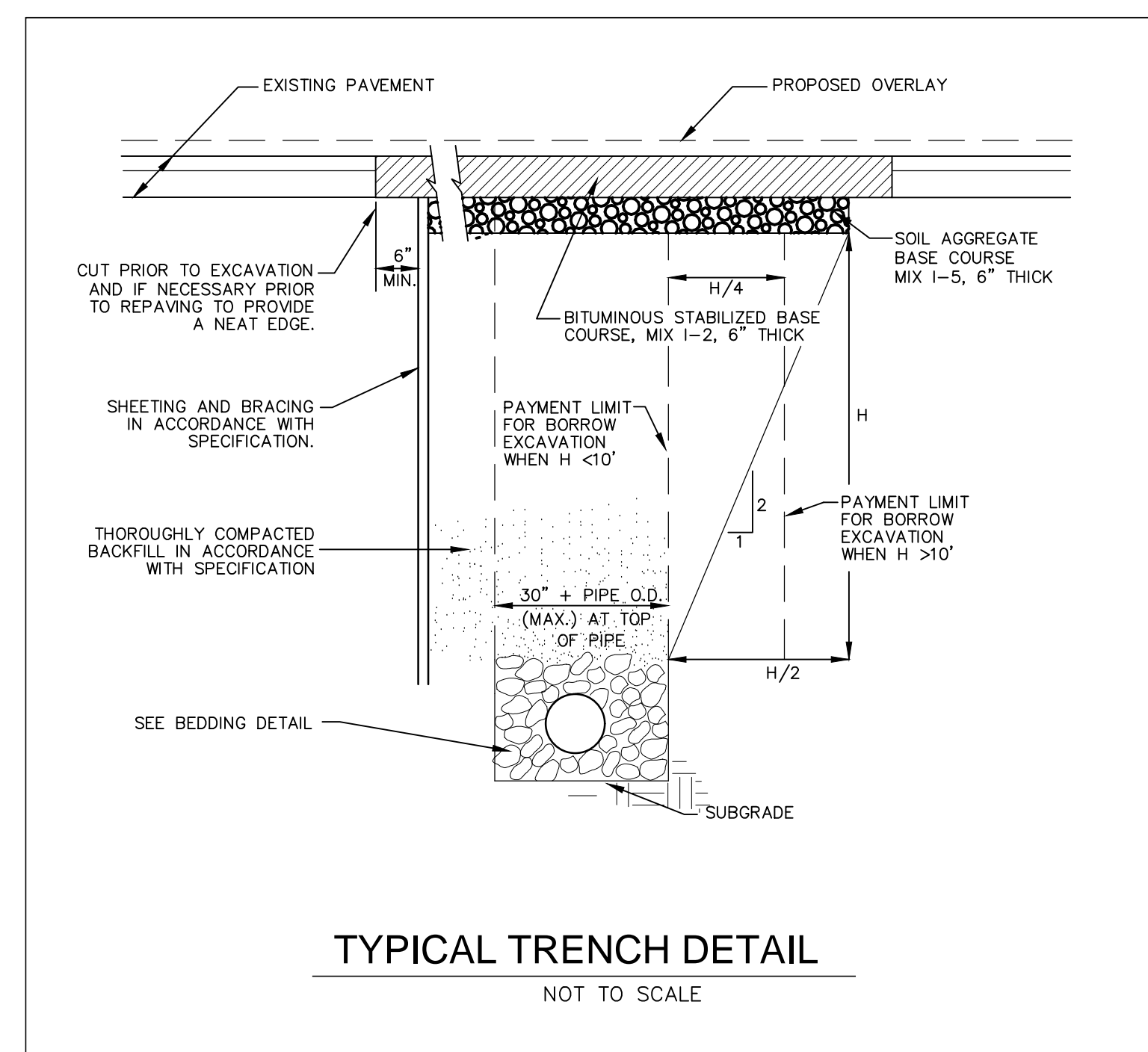
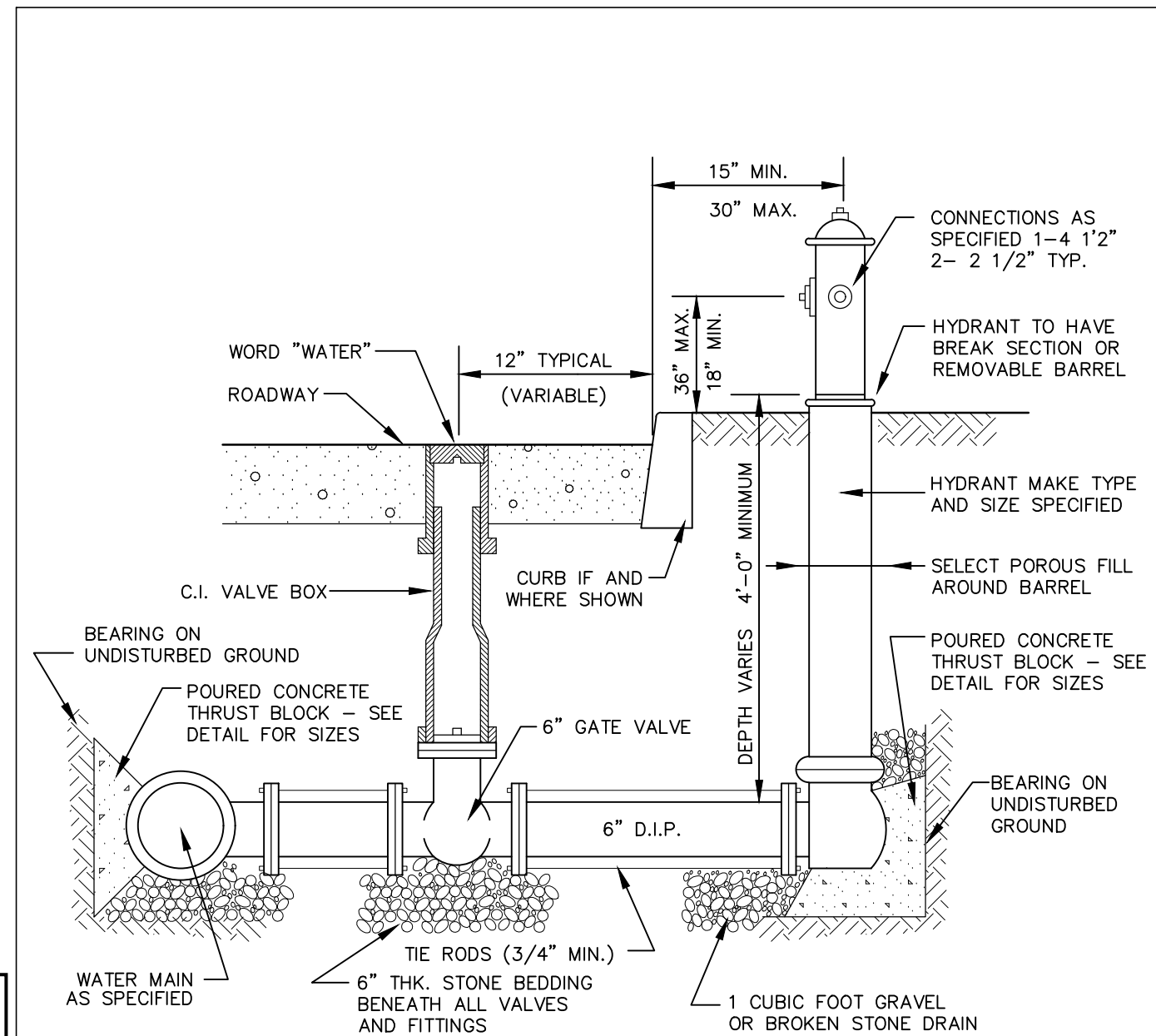
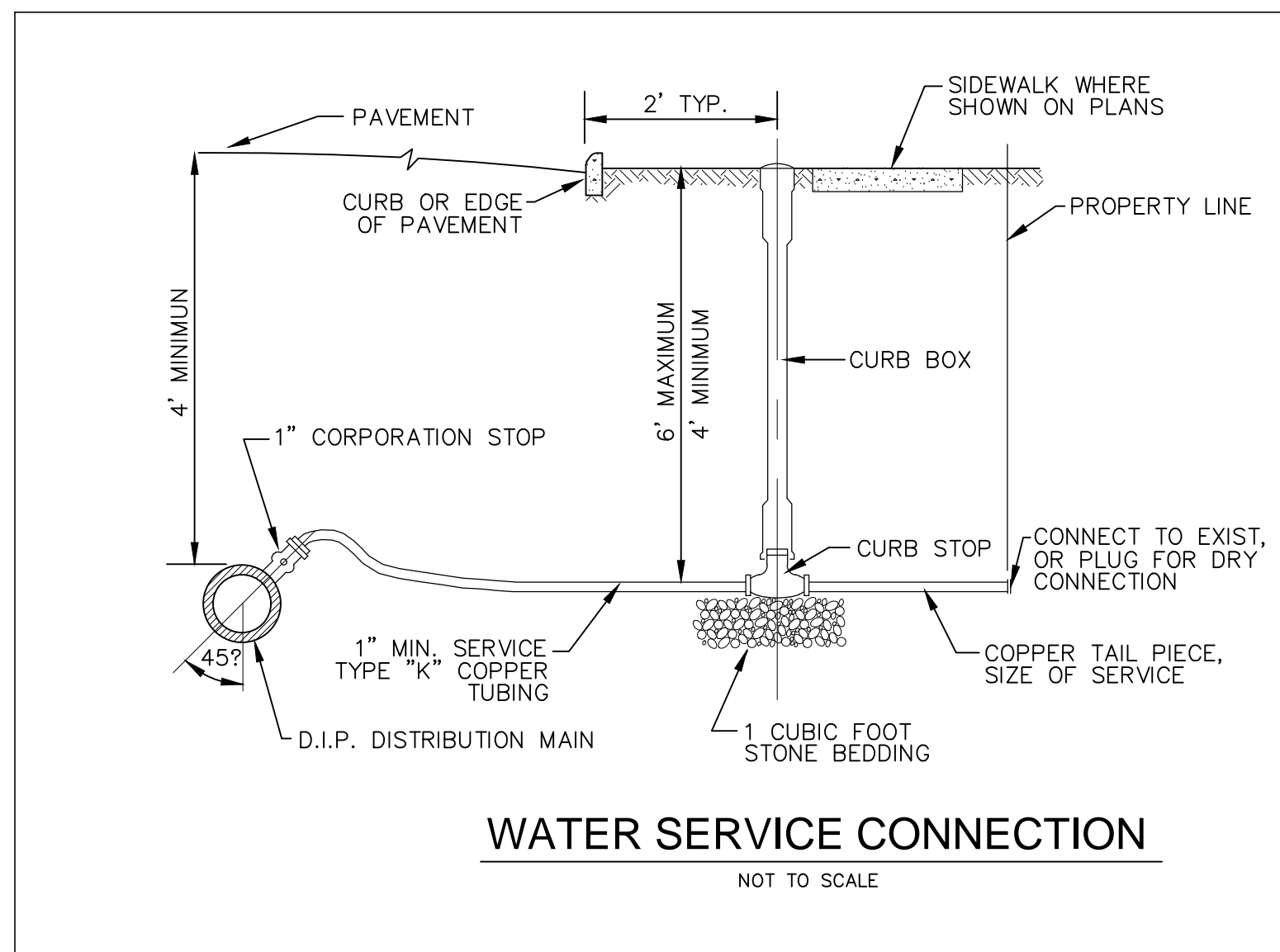
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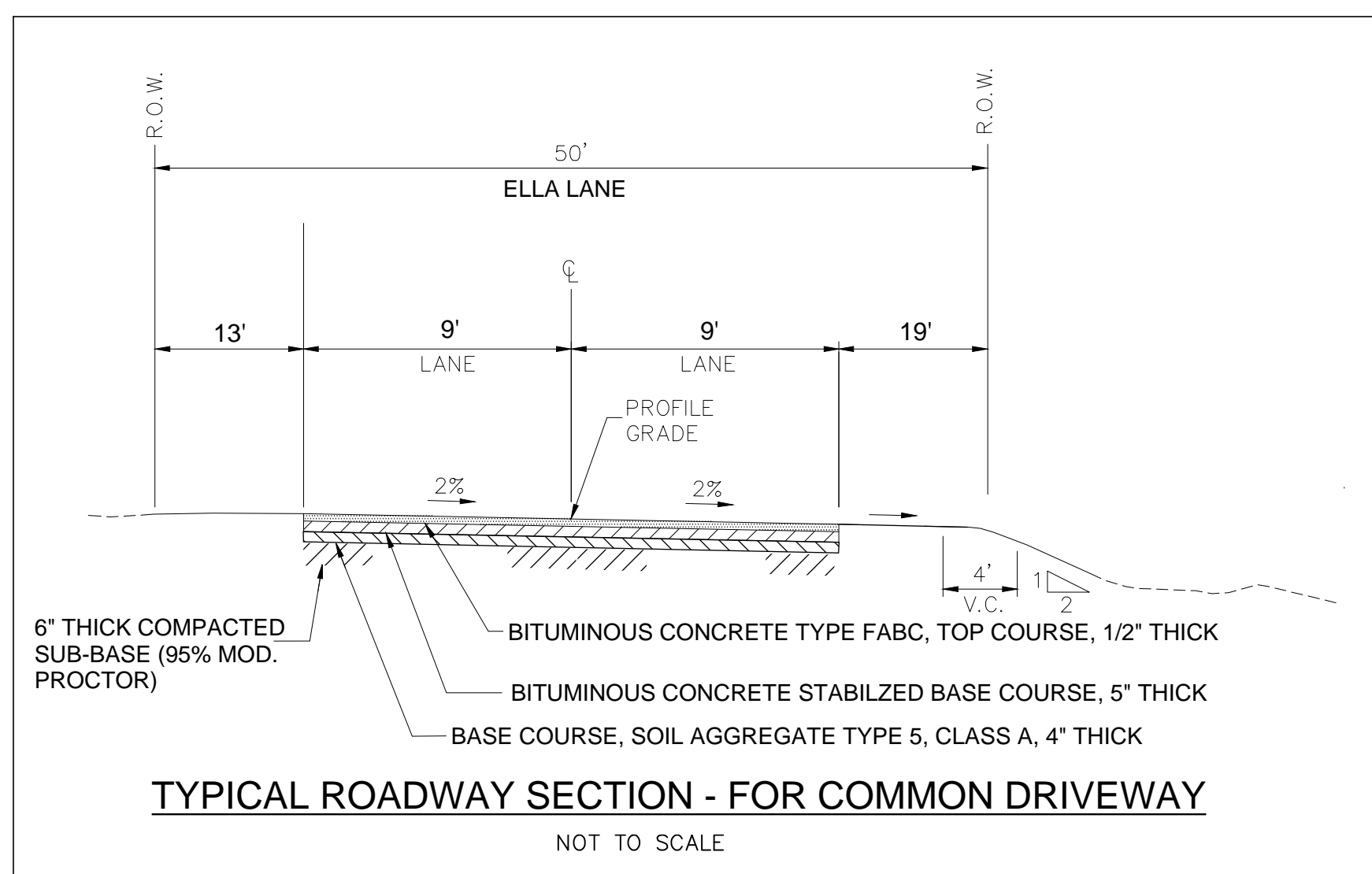
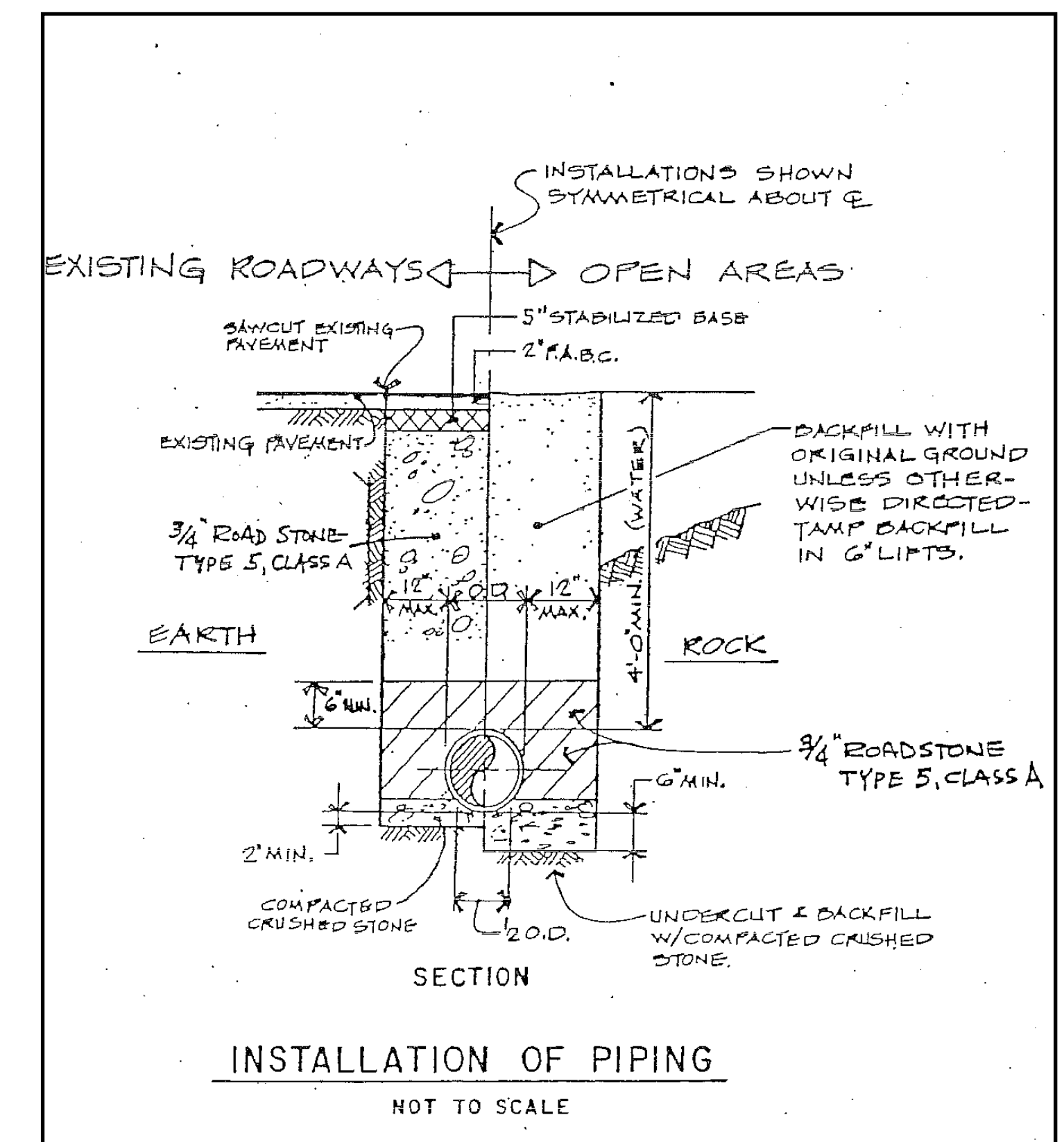
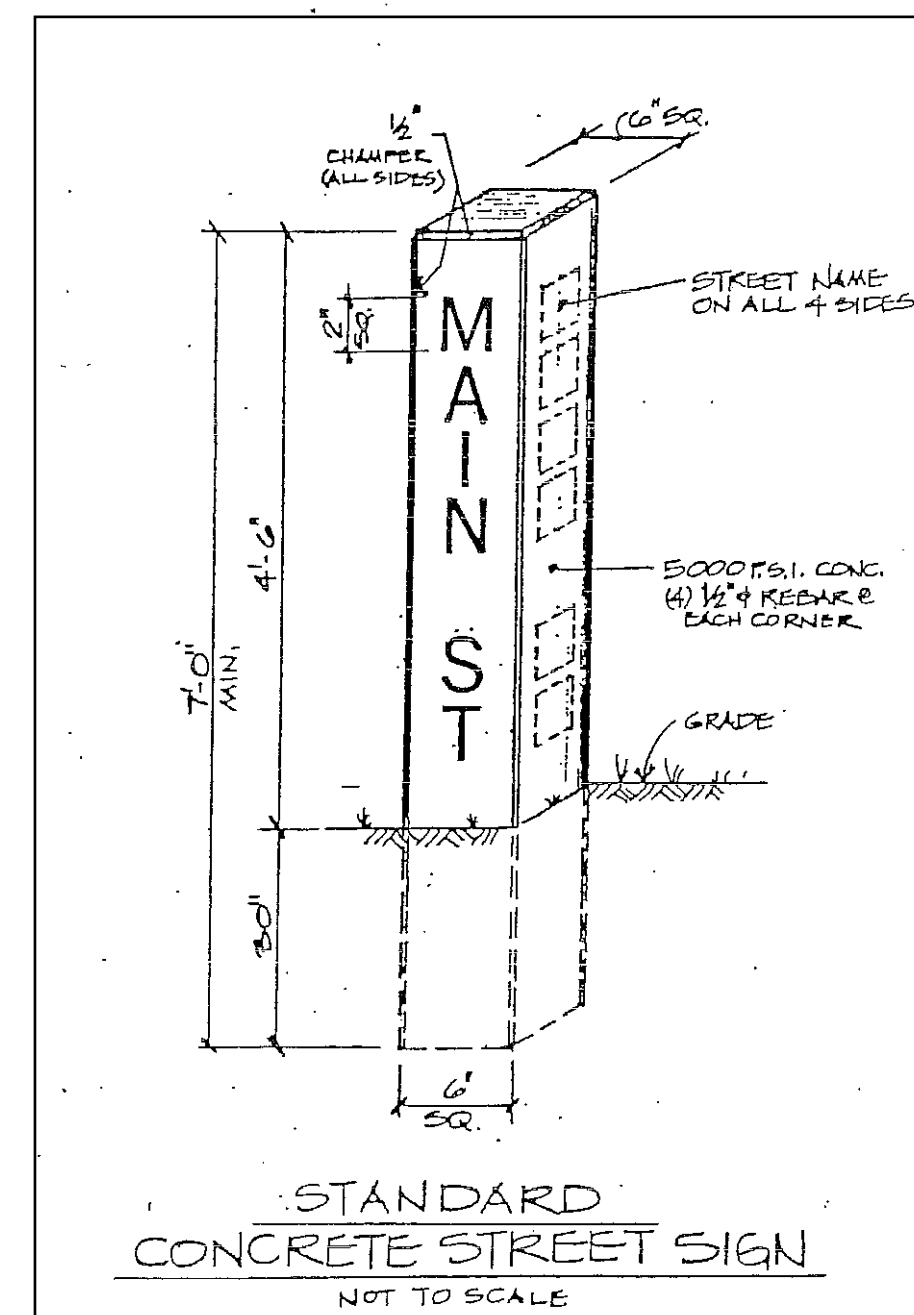
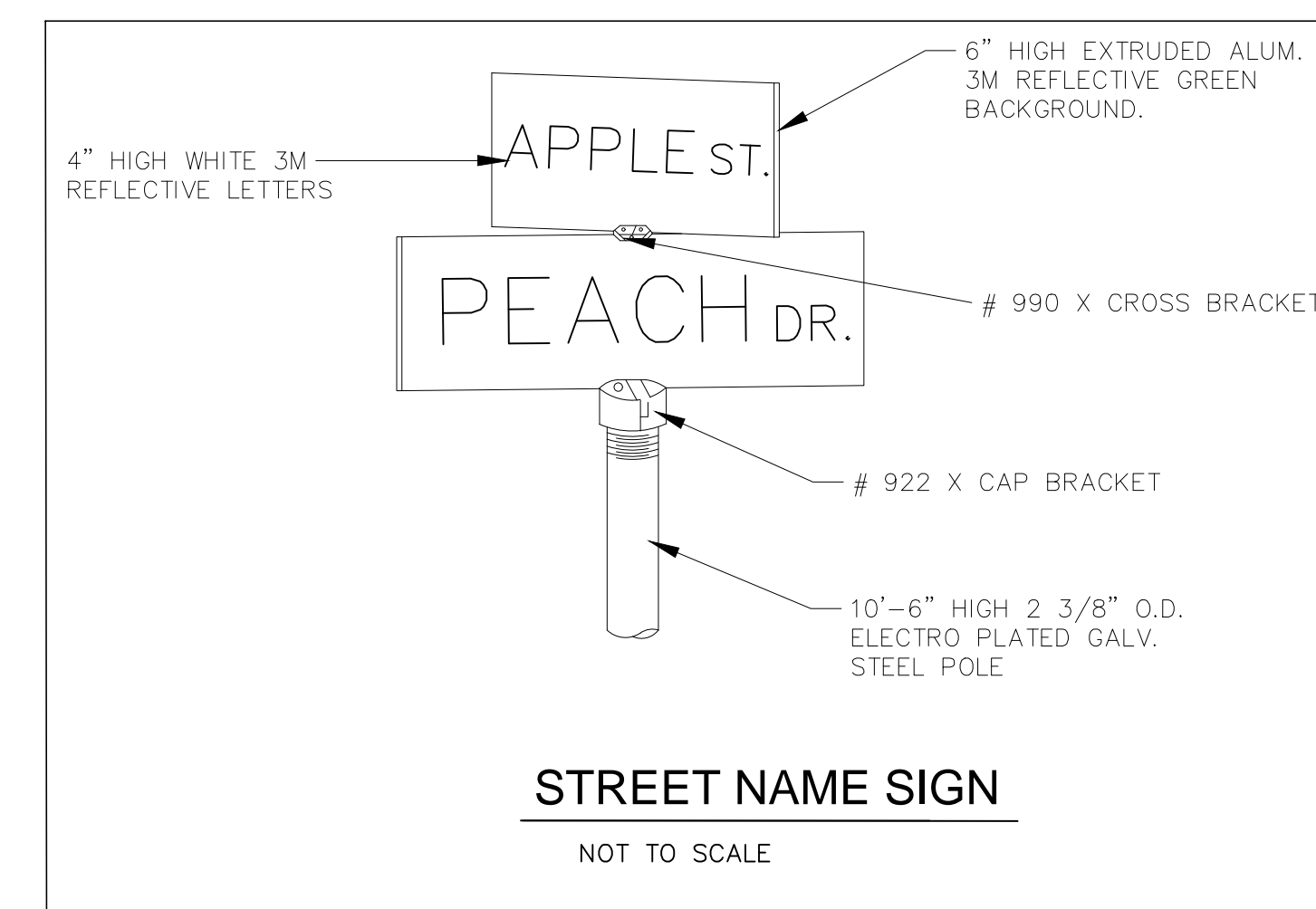
SHEET: **UTILITY PLAN**  
**LOT 47 - BLOCK 116**  
 239 MOUNTAINSIDE ROAD  
 TOWNSHIP OF MENDHAM  
 MORRIS COUNTY NEW JERSEY

SHEET **8**  
 OF **9**





- CONSTRUCTION NOTES:**
- CONCRETE FOR THRUST BLOCKS SHALL BE NDOT CLASS 'C'.
  - SIZE AND BEARING AREA FOR THRUST BLOCKS SHALL CONFORM TO THE STANDARD DETAIL FOR THRUST BLOCKS.
  - FINISH PAINTING AND MARKING SHALL BE DESIGNATED ON THE PLANS OR CONTRACT DOCUMENTS OR SHALL BE AS DIRECTED BY THE ENGINEER.
  - SPECIAL HYDRANT ARRANGEMENTS OR SETTINGS TO BE DETAILED BY CONTRACTOR SUBJECT TO ENGINEER'S APPROVAL.
  - ALL CONNECTIONS AND FITTINGS TO BE MECHANICAL JOINT.



**DRY WELL ANALYSIS (TYPICAL)**

Tributary Roof DA =	Roof Area = 5,000 sf	5000 sf
Runoff Volume =	3 inches of runoff per Area =	1250 Cubic Feet
Dry Well Size	6 ft Dia. Dry well	Depth of Storage 4 ft Storage Area
Area of Well =	28.26 sf	
Storage Vol Well =	113.04 Cubic Feet	
Stone Pocket 2-foot Diameter Around Well	Area of Stones = 21.98 sf	Depth of Storage 4 ft Storage Area
Storage Vol Stones =	35.168 Cubic Feet	
Bottom Vol Stones =	4.8 Cubic Feet	
Tot Vol Stones =	39.968 Cubic Feet	
Tot Vol Dry Well =	153.0 Cubic Feet	
Proposed Wells/Unit =	13.0 Dry Wells Per Unti	
Total Storage Volume =	1989 Cubic Feet	

DATE	REVISIONS	BY
4-17-23	ADDED GRASS SWALE DETAIL	RM
3-28-23	ADDED DRY WELL ANALYSIS PER MSCSD	RM
3-28-23	ADDED CONCRETE ST. SIGN DETAIL	RM



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SHEET: CONSTRUCTION DETAILS  
LOT 47 - BLOCK 116  
239 MOUNTAINSIDE ROAD  
TOWNSHIP OF MENDHAM  
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SHEET 9 OF 9