

RICHARD D. McGOEY, P.E. (NY & PA) WILLIAM J. HAUSER, P.E. (NY, NJ & PA) MARK J. EDSALL, P.E. INY, NJ & PAI

MAIN OFFICE 33 Airport Center Drive Suite 202 New Windsor, New York 12553

(845) 567-3100 fax: (845) 567-3232 e-mail: mheny@mhepc.com

TOWN OF NEWBURGH **PLANNING BOARD** REVIEW COMMENTS

PROJECT:

GARDNER RIDGE

PROJECT NO.:

02-29

PROJECT LOCATION:

SECTION 75, BLOCK 1, LOT 4.12

REVIEW DATE:

12 JUNE 2017

MEETING DATE:

15 JUNE 2017

PROJECT REPRESENTATIVE: DOCE ASSOCIATES

- 1. Town of Newburgh Water and Sewer notes, latest version are attached for use on the plans.
- 2. Information pertaining to infiltration testing identified in the Cover letter should be incorporated into the plans and provided in the SWPPP.
- 3. Underdrains are identified as being utilized within the bio retention systems. Detail does not contain the underdrain system. All pipes in the vicinity of the Stormwater management facility should be labeled with inverts, pipe sizes and material.
- 4. Discharge pipe from drainage manhole-B3 should be labeled with pipe size material. Drainage manhole B3 should have a lower invert on the pipe discharging to the area labeled as plunge pool.
- 5. We are awaiting submission of additional information regarding sanitary sewer in NYS Route 32.
- 6. Revised City of Newburgh Flow Acceptance Letter should be received or updated by the Town.
- 7. This office continues to identify a concern regarding placement of structures in areas of deep fills. Notes must be added to the plans regarding construction of these fill areas.
- 8. The drainage structure conveying the Army Corps of Engineers wetland area across the project access road in the vicinity of Building #1 and south of the Senior Apartments should be depicted.

- 9. Water service connection details must comply with Town of Newburgh requirements for termination of potable water if fire flow water is disconnected detail should be provided on plans.
- **10.** Pipe sizes at emergency access roads and maintenance drive must be depicted. Runoff from the emergency access and maintenance roads to Gardnertown Road should be specifically addressed.

Respectfully submitted,

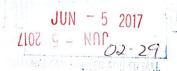
MCGOEY, HAUSER & EDSALL CONSULTING ENGINEERS, D.P.C.

Patrick J. Hines, Principal

PJH/kbw

Thomas B. Olley, P.E., P.L.L.C.

Engineering & Land Planning 152 Orange Avenue • Walden, NY 12586 (845) 778-5638 • Fax (845) 778-1137



June 2, 2017

Mr. John Ewasutyn, Chairman Town of Newburgh Planning Board 308 Gardnertown Road Newburgh, NY 12550

Re: Gardner Ridge

Route 32 Section 75, Block 1, Lot 4.12

Dear Mr. Ewasutyn:

We are submitting thirteen (13) copies of the revised Site Plan on behalf of Gardner Ridge Associates and one digital copy of the Revised Storm Water Pollution Prevention Plan and the previously submitted Traffic Impact Study. We have also included preliminary Architectural Elevations of the buildings. A digital (pdf) copy of the site plans and the building elevations are also included.

We respectfully request that Gardner Ridge be placed on the June 15, 2017 Planning Board Agenda. The following are brief responses to the outstanding consultant comments.

McGoey, Hauser & Edsall, DPC Comments dated March 1, 2016

- 1. A Flow Acceptance letter was previously issued for the BCM Project proposal. We have submitted a letter to Town Engineer, James Osborne, P.E. requesting at this time to revalidate or revise the flow acceptance.
- 4. We have had preliminary discussions with Ms. Lisa Carver of Central Hudson. She is currently assembling the various people that would be involved from start to finish of the project (Real Estate, Gas Engineering, New Service, etc.) for a meeting with the Project Sponsor. We are waiting to hear back from Central Hudson at this time.
- 11. The Town of Newburgh Standard Sewer System Notes have been added to the Detail Sheet 14 of 16.
- 15. Preliminary Site Landscaping Plans have been added to the Site Plan Set (Sheets (LA-1 through LA-3).

Thomas B. Olley, P.E., P.L.L.C.

Engineering & Land Planning 152 Orange Avenue • Walden, NY 12586 (845) 778-5638 • Fax (845) 778-1137

June 2, 2017

Mr. James W. Osborne, PE Town of Newburgh Engineer 308 Gardnertown Road Newburgh, NY 12550

Re:

Gardner Ridge

Route 32

Section 75, Block 1, Lot 4.12

Dear Mr. Osborne:

We are hereby requesting reaffirmed or revised Flow Confirmation for the Gardner Ridge Project. The Original Project was a proposed 125 unit Active Adult community. The Project Plans have been revised to consist of 108 units of Market Rate Apartments and 36 units of Age Restricted (Senior) Apartments. The original project anticipated a water consumption and sewer generation of 31,250 gpd.

The Plan presently before the Planning Board includes the following unit breakdown and anticipated flows:

Market Rate Apartments:

	36	1-bedroom apartments		36 bedrooms
	72	2-bedroom apartments		144 bedrooms
			Subtotal	$180 \ \mathrm{bedrooms}$
Seni	ior Apa	rtments:		
	26	1-bedroom apartments		26 bedrooms
	10	2-bedroom apartments	<u> 1865 - 1866 - 18</u>	20 bedrooms
			Subtotal	46 bedrooms
			TOTAL	226 bedrooms

June 10, 2017

Mr. John Ewasutyn Planning Board Chairman Town of Newburgh 308 Gardnertown Road Newburgh, NY 12550



RE: Site Plan Review for Gardner Ridge, Route 32, Town of Newburgh, NY; Town Project No. 2002-29, CM Project No. 114-014 & 02-068

Dear Mr. Ewasutyn:

Creighton Manning Engineering, LLP (CM) is in receipt of the Site Plan, last revised May 30, 2017, prepared by Thomas B. Olley, and the March 26, 2016 traffic study prepared by Maser Consulting. After reviewing the referenced materials, we offer the following comments:

- 1. The property extends to the centerline of Gardnertown Road. Will a portion be dedicated to the Town to establish a proper ROW?
- 2. The entrance from Route 32 intersects at a 90 degree angle (see image right). Why isn't a curve proposed for inbound traffic? Are there future plans or opportunities to extend the site road north or west into WPA Acquisition Corp?
- A sidewalk is proposed to extend from Route 32 into the site, providing pedestrian access to/from the site. Crosswalks at the signal (east leg, north
 - leg, west leg) should be considered. This would allow for future sidewalk connections should the Shop Rite and New China Restaurant plazas be redeveloped in the future.
- 4. Will the site roads be town or private? Are any of the Town's road specifications, specifically §161-38 Vertical and Horizontal alignment, applicable? Several sections of road have K-values less than that of the Town road standards.
- 5. We concur with the inclusion of Gardnertown Commons in the traffic analysis.
- 6. We concur with the trip generation estimate; the project will generate 69 trips in the AM peak hour and 81 trips in the PM peak hour, conservatively assuming there are no senior occupied units.
- 7. We concur with the trip distribution and assignment.
- 8. The construction of the site access to Route 32 will require, and is proposed to include, widening for left turn lanes on Route 32 and a replacement of the

Mr. John Ewasutyn June 10, 2017 Page 2 of 2

- traffic signal. These improvements and the driveway entrance will need to be coordinated with NYSDOT as part of the highway work permit.
- 9. With the proposed timing improvements, no impacts are expected at the Route 32/Gidney Ave/Noel Drive intersection during the AM peak hour. During the PM peak hour, 12 seconds of green time is proposed to be reallocated from Gidney Ave/Noel Drive to Route 32, which will increase delays to the side street (4 to 16 seconds) but will help mitigate a drop in level of service (LOS) on Route 32 (northbound) from LOS D to LOS E. These changes will also need to be coordinated with NYSDOT.
- 10. The No-Build, PM peak hour Synchro report analyzes 272 vehicles on Gidney Ave NB @ Gardnertown; this should be corrected to 472 vehicles to determine a fair evaluation of impacts.

If you have any questions regarding these comments or recommendations, please feel free to contact our office.

Cc:

Respectfully submitted,

Creighton Manning Engineering, LLP

Kenneth Wersted, PE, PTOE Project Manager Pat Hines - MHE

Michael Donnelly – PB Attorney Jim Osborne – Town Engineer Jerry Canfield – Fire Inspector

Karen Arent – KALA Siby Zachariah - NYSDOT

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FRONT ELEVATION



ENLARGED ENTRY ELEVATION



FRONT ELEVATION



ENLARGED ENTRY ELEVATION

SITE PLAN GARDNER RIDGE APARTMENTS

NYS ROUTE 32
TOWN OF NEWBURGH, ORANGE COUNTY, NY

JANUARY 28, 2016 REVISED MAY 2017

DENSITY CALCULATIONS:

TOTAL PARCEL AREA = 23.4± AC.

LESS WETLANDS, EASEMENTS/R.O.W.s,

100—YR FLOODPLAINS AND SLOPES 25% OR GREATER = 7.4± AC.

USEABLE AREA = 16.0± AC.

MULTIPLE FAMILY DWELLINGS MAXIMUM ALLOWABLE DENSITY= 6 DU/ACRE

ALLOWABLE NUMBER OF UNITS= 96 DWELLING UNITS

ALLOWABLE NUMBER OF UNITS=

DENSITY BONUS FOR PROJECTS CONSISTING OF SENIOR CITIZEN
MULTIPLE DWELLING UNITS AND NON—SENIOR— CITIZEN MULTIPLE DWELLING UNITS:

MAXIMUM DENSITY= 9 DU/ACRE
MAXIMUM ALLOWABLE UNITS= 144 UNITS
BONUS UNITS = 144 UNITS - 96 UNITS = 48 UNITS
SENIOR HOUSING UNITS REQUIRED = 48 UNITS/3 = 16 UNITS

TOTAL UNITS PROPOSED =144 UNITS
BONUS UNITS PROPOSED = 144 UNITS - 96 UNITS = 48 UNITS
SENIOR HOUSING UNITS REQUIRED = 48 BONUS UNITS/3 = 16 UNITS
NON-SENIOR APARTMENTS PROPOSED = 108 UNITS
SENIOR HOUSING PROPOSED = 36 UNITS

PARKING CALCULATIONS:

08 NON-SENIOR APARTMENTS
SPACES REQUIRED (2 SPACES/DU REQ.)= 216 SPACES

SPACES PROVIDED:
GARAGES = 72 SPACES
DRIVEWAY = 72 SPACES
PARKING LOT SPACES = 72 SPACES

NON-SENIOR APARTMENTS: SPACES PROPOSED = 216 SPACES

36 SENIOR HOUSING APARTMENTS
SPACES REQUIRED (2 SPACES/DU REQ.)= 72 SPACES

SPACES PROVIDED:
PARKING LOT SPACES = 74 SPACES

CLUBHOUSE SPACES PROVIDED = 17 SPACES

TOTAL PARKING PROVIDED: 307 SPACES

ACCESSIBLE PARKING SPACES (NYS BUILDING CODE SECTION 1106):
SPACES REQUIRED 301 -400 SPACES = 8 SPACES

SPACES PROVIDED: 10 SPACES

PROVISIONS SHALL BE PLACED IN EACH LEASE AGREEMENT THAT REQUIRES EACH

PROVISIONS SHALL BE PLACED IN EACH LEASE AGREEMENT THAT REQUIRES EACH TENANT WITH A GARAGE TO MAINTAIN THAT GARAGE FOR THE PURPOSE OF PARKING A VEHICLE.

SHEET INDEX

	DECORIDATION			
SHEET NO.	DESCRIPTION			
1	EXISTING CONDITIONS			
2	OVERALL SITE PLAN			
3	LAYOUT & DIMENSION PLAN			
4	LAYOUT & DIMENSION PLAN			
5	GRADING & UTILITY PLAN			
6	GRADING & UTILITY PLAN			
7	EROSION & SEDIMENT CONTROL PLAN			
8	EROSION & SEDIMENT CONTROL PLAN			
9	ROAD PROFILES			
10	ROAD PROFILES			
11	DRAINAGE PROFILES			
12	SITE DETAILS			
13	WATER DETAILS			
14	SEWER DETAILS			
15	DRAINAGE DETAILS			
16	EROSION CONTROL DETAILS			
LA-1	OVERALL LANDSCAPE PLAN			
LA-2	LANDSCAPE PLAN			
LA-3	LANDSCAPE PLAN			

RECORD OWNER

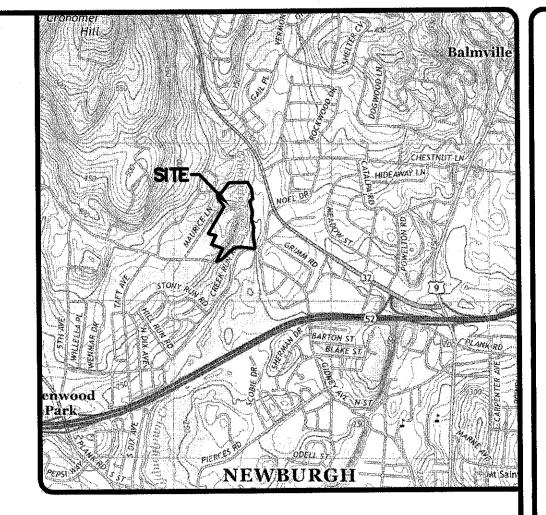
GARDNER RIDGE ASSOCIATES 134 FAIRVIEW ROAD ROCKAWAY, NJ 07866

CONSULTING ENGINEER

THOMAS B. OLLEY, PE, PLLC 152 ORANGE AVENUE WALDEN, NY 12586 CONTACT: THOMAS B. OLLEY, PE (845) 778-5638

SURVEYOR:

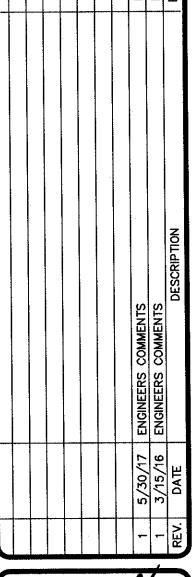
MARTIN F. ANTHONISEN JR., PLS 1422 LONG MEADOW ROAD, TUXEDO, NY

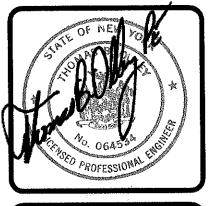


LOCATION MAP

NEWBURGH QUADRANGLE

SCALE: 1"=2000'





ENGINEERS AND PLANNERS

FHONE: (&s) 78-5638

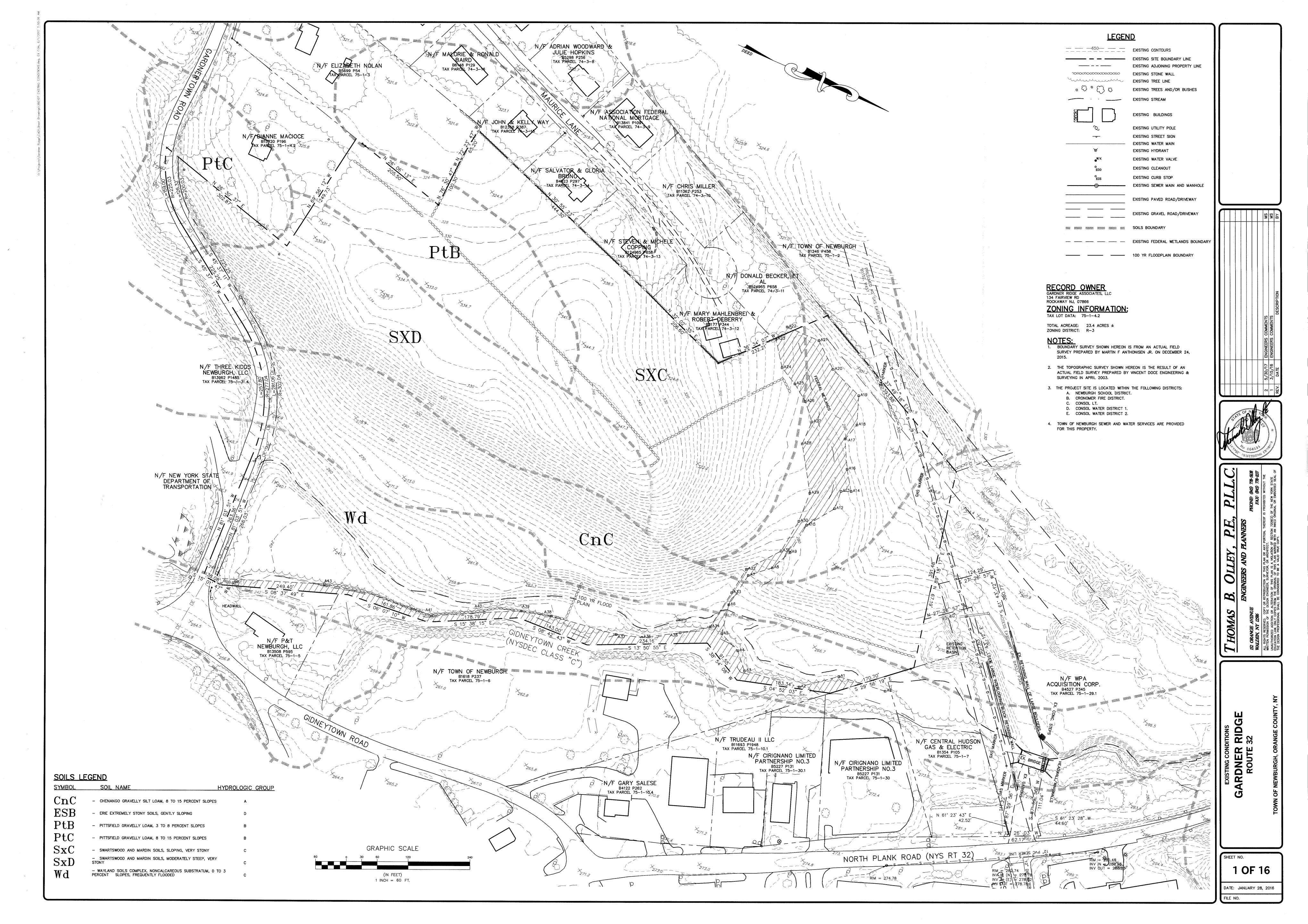
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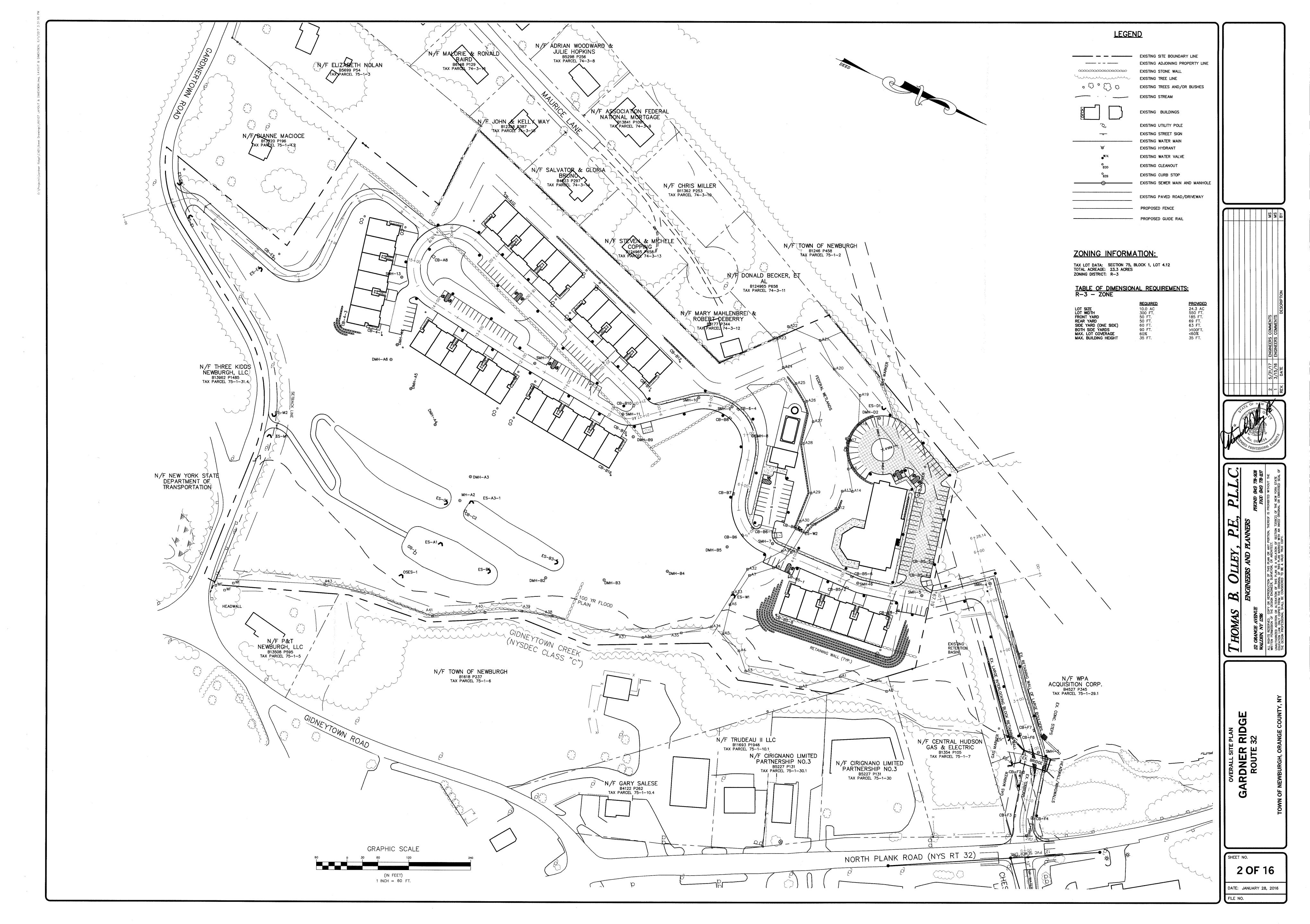
COPY OR REPRODUCTION OF THIS PLAN OR ANY PORTION, THEREOF IS PROHIBITED WITHOUT THE THE DESIGN ENGINEER, SURVEYOR, OR ARCHITECT.

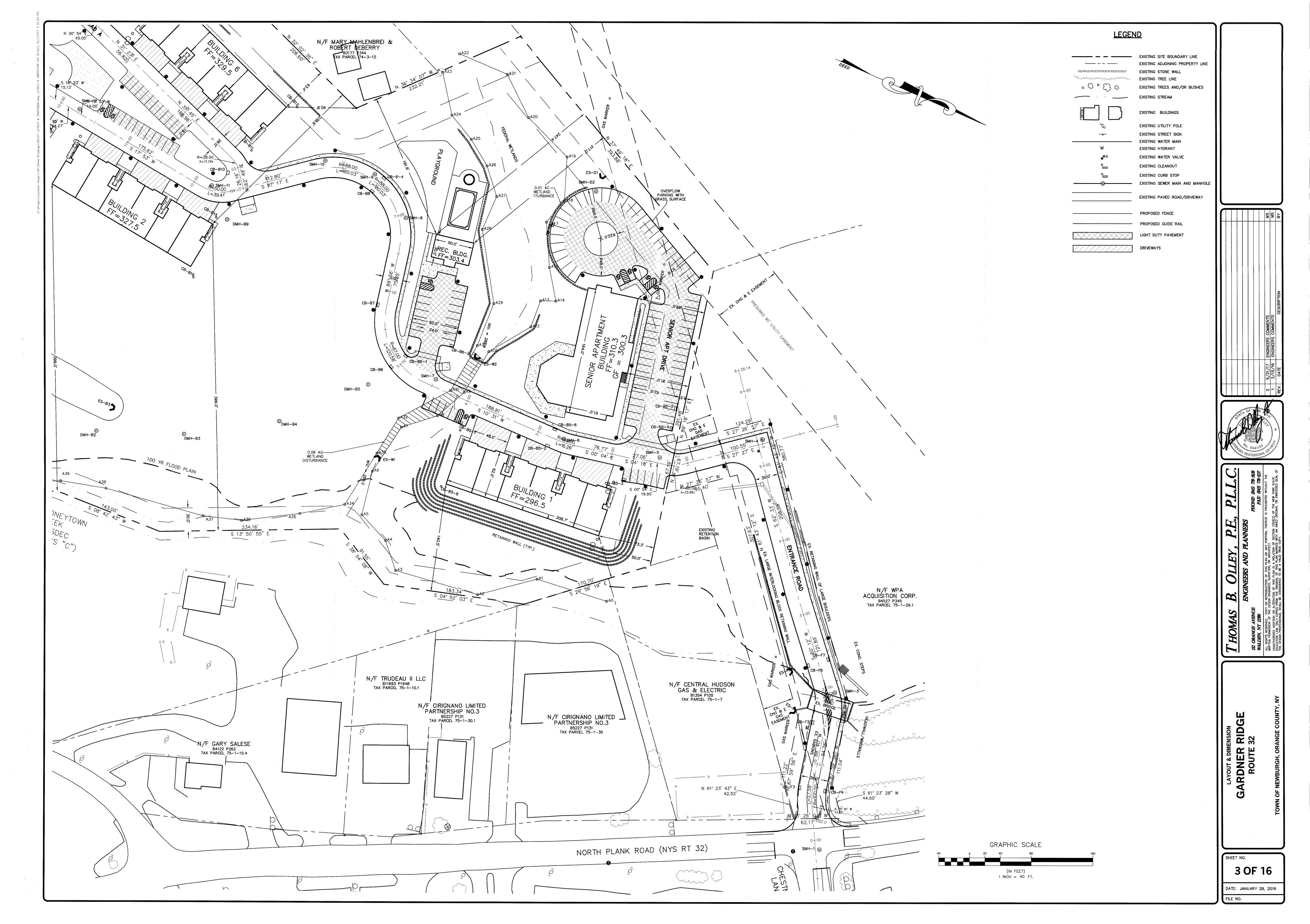
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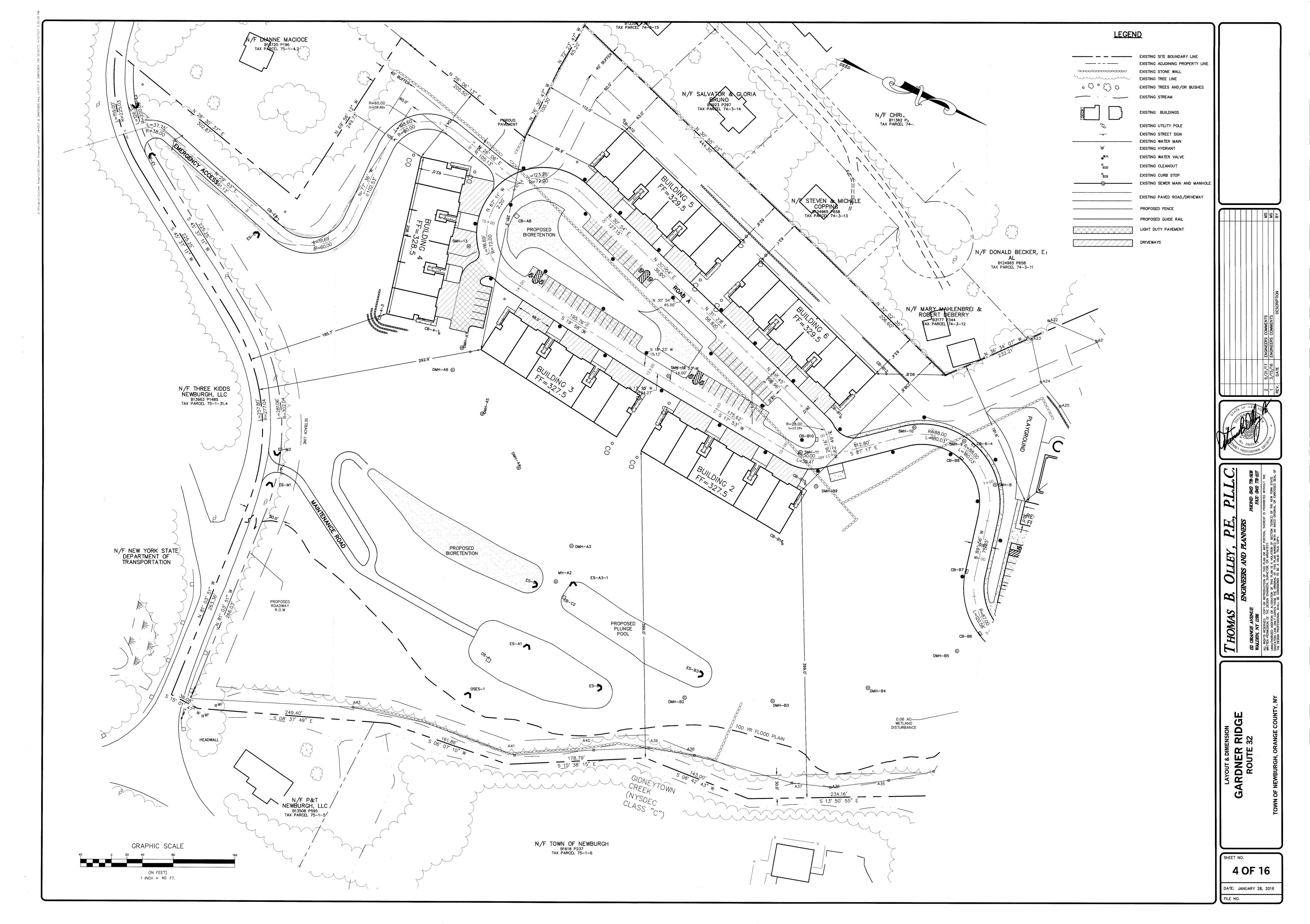
ARDNER RIDGE
ROUTE 32

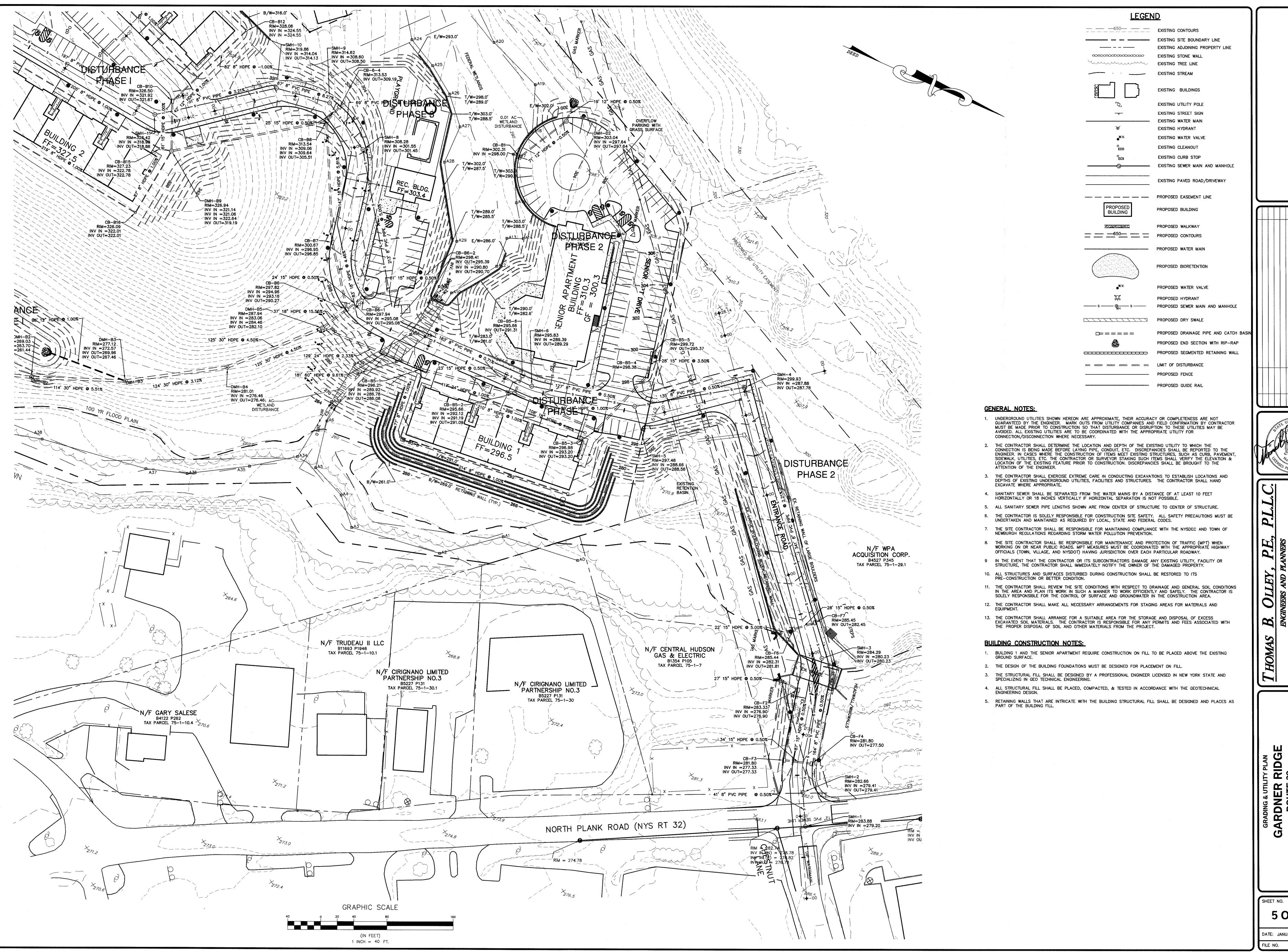
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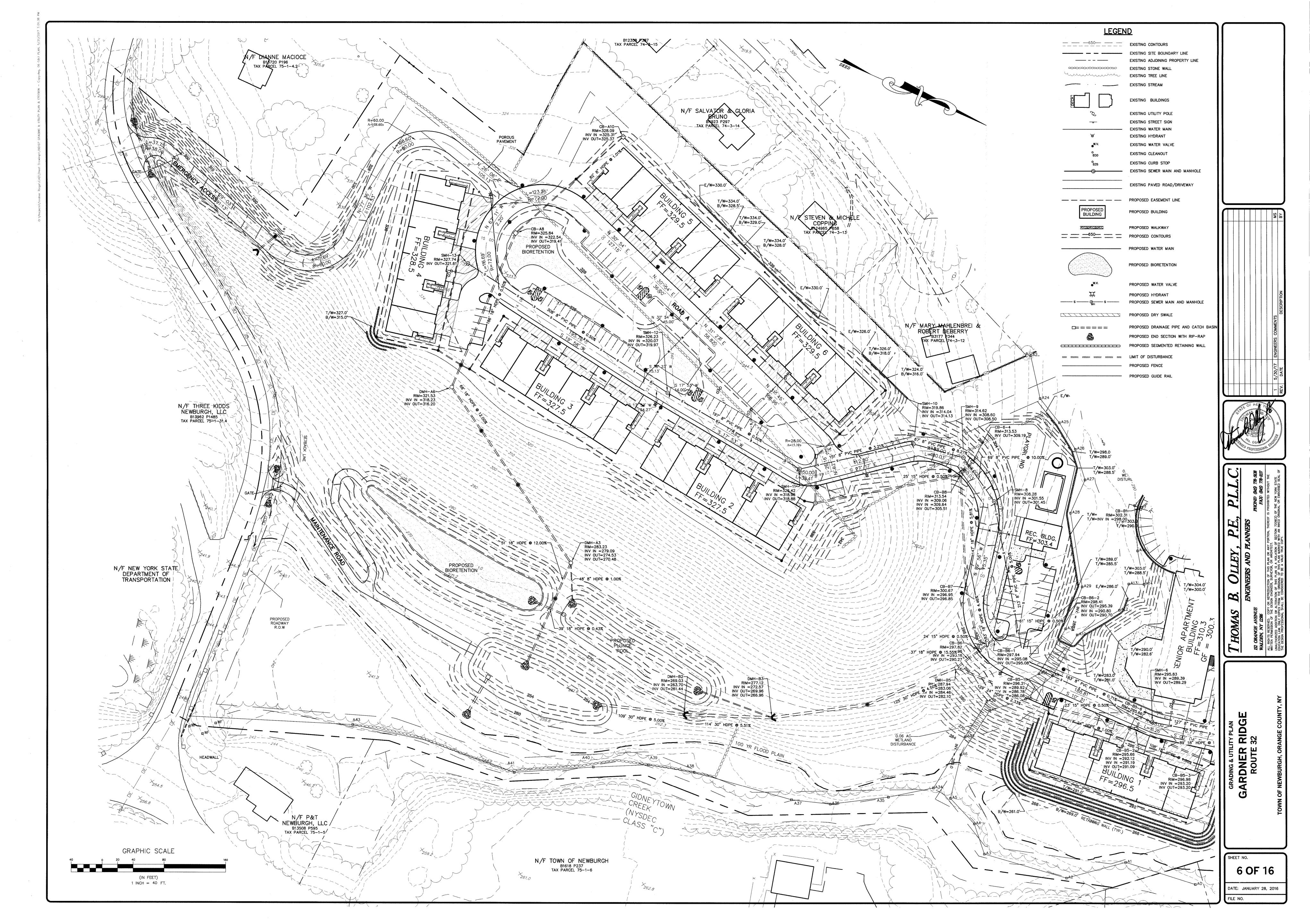


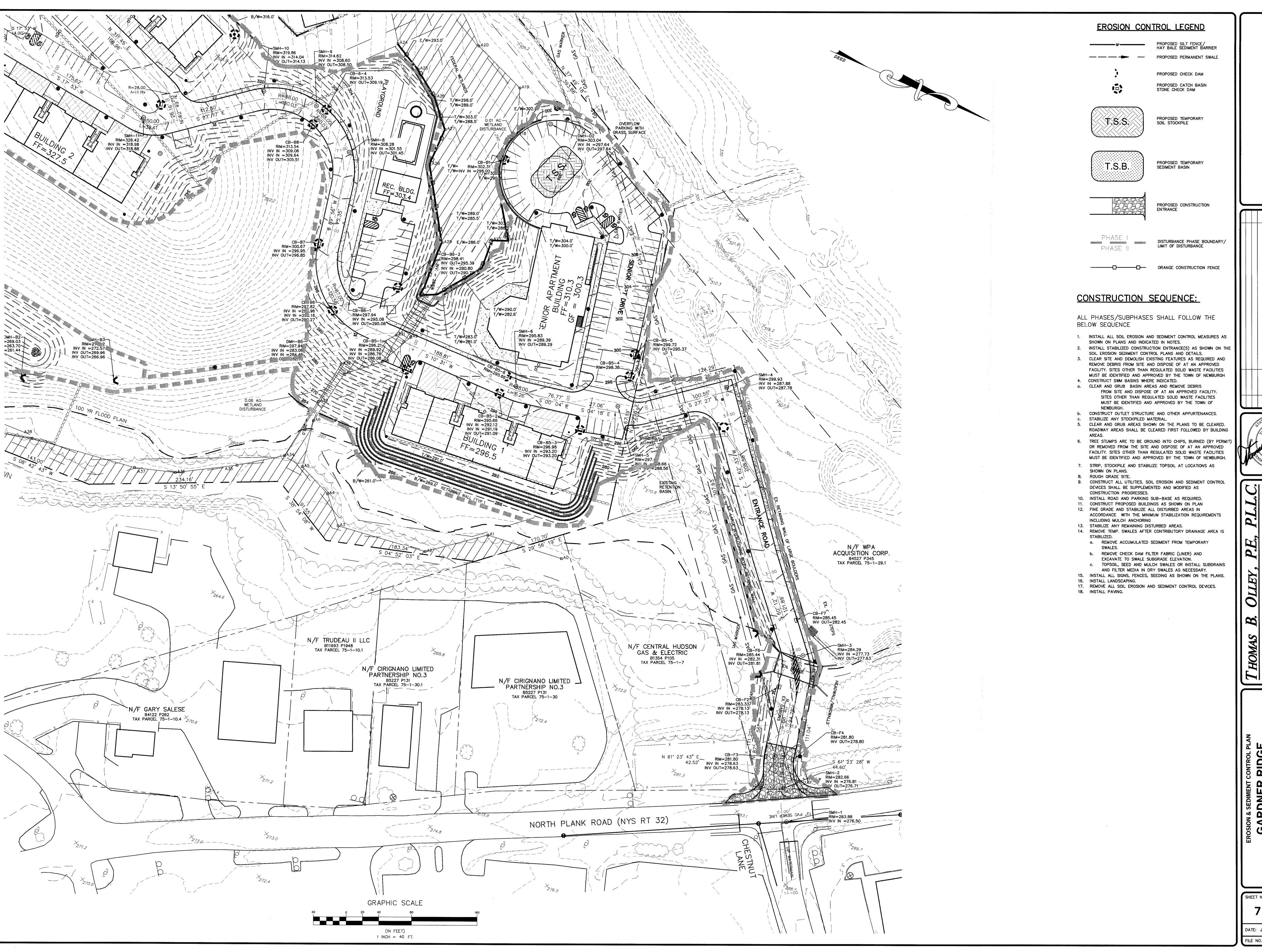




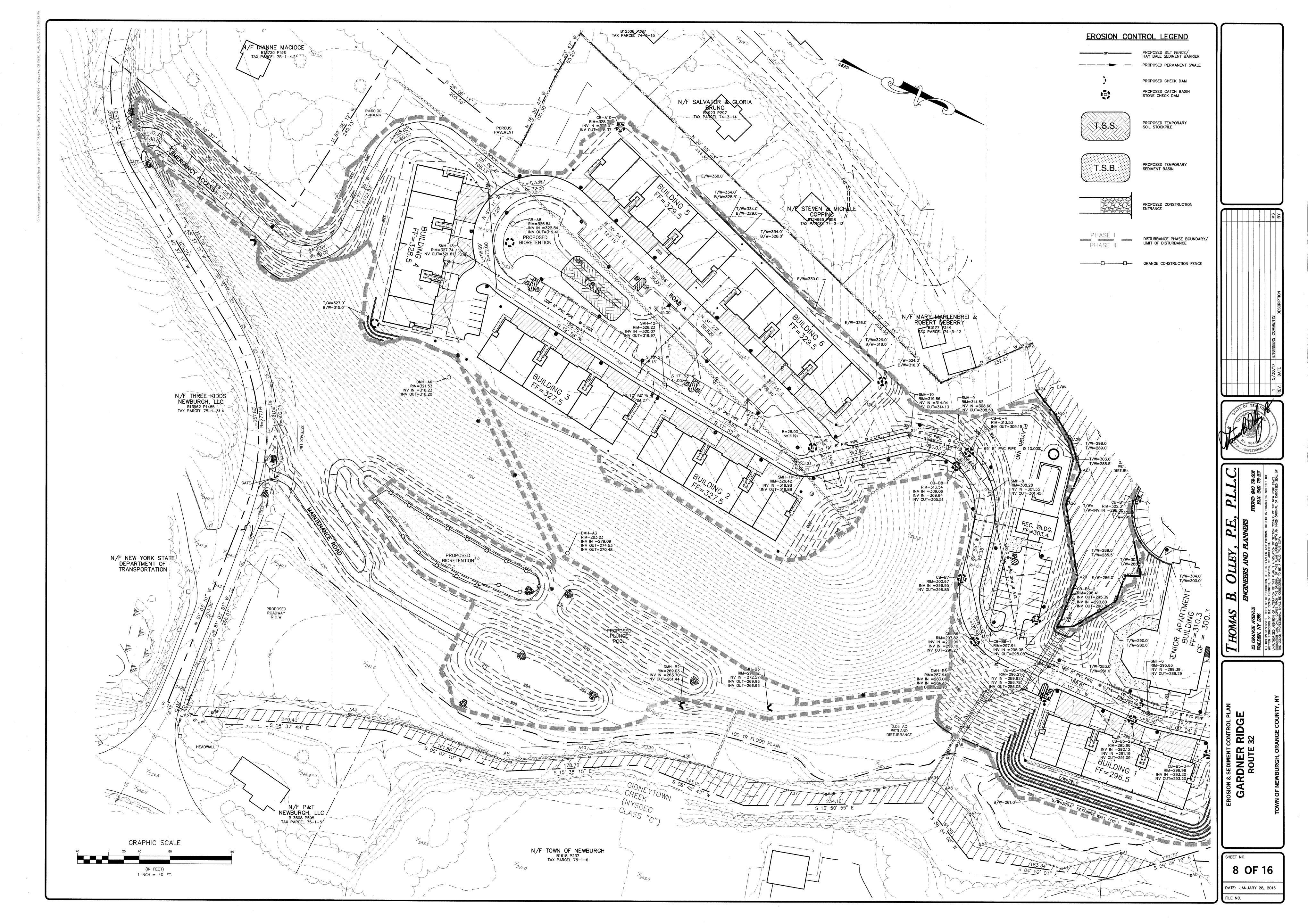


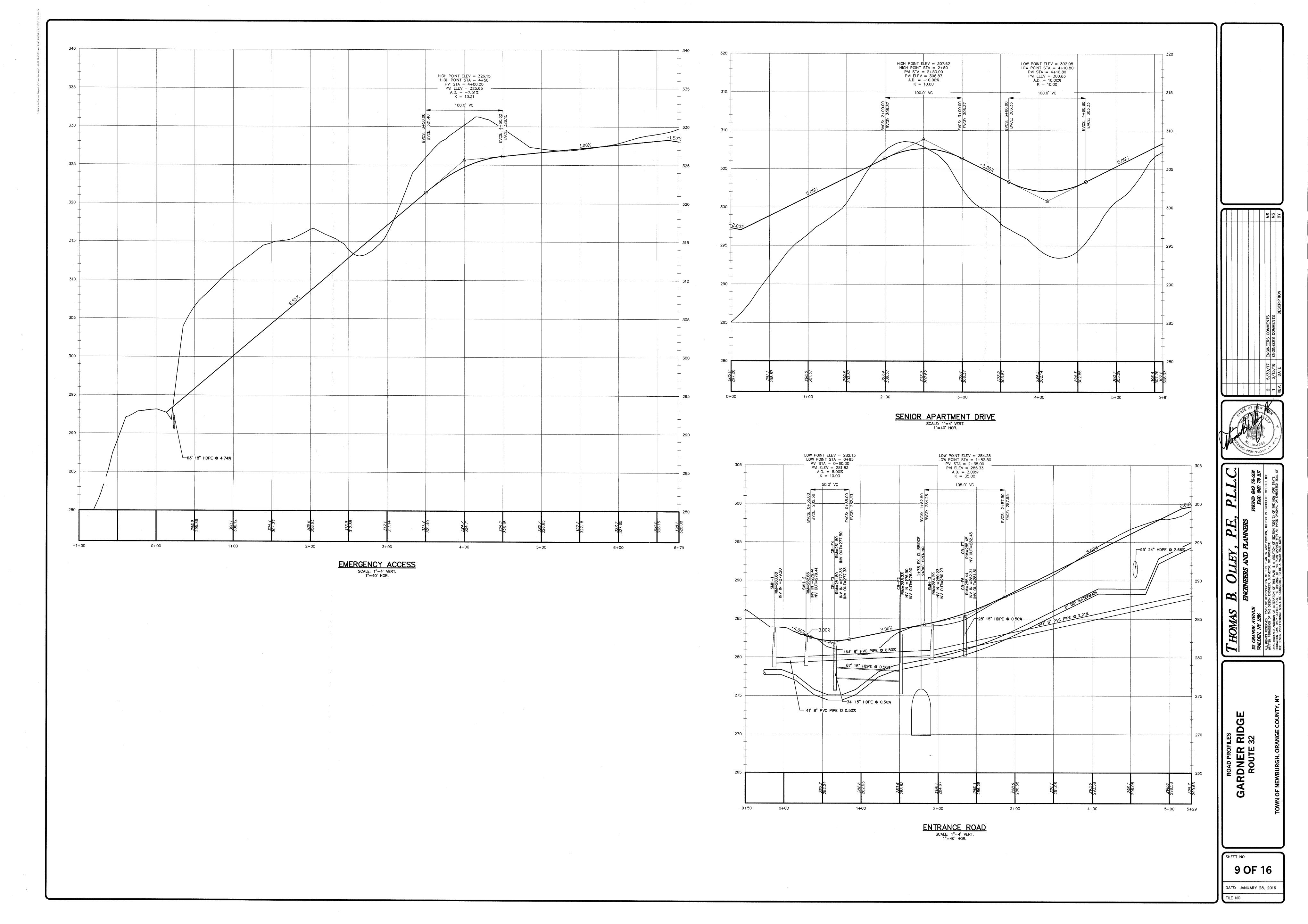
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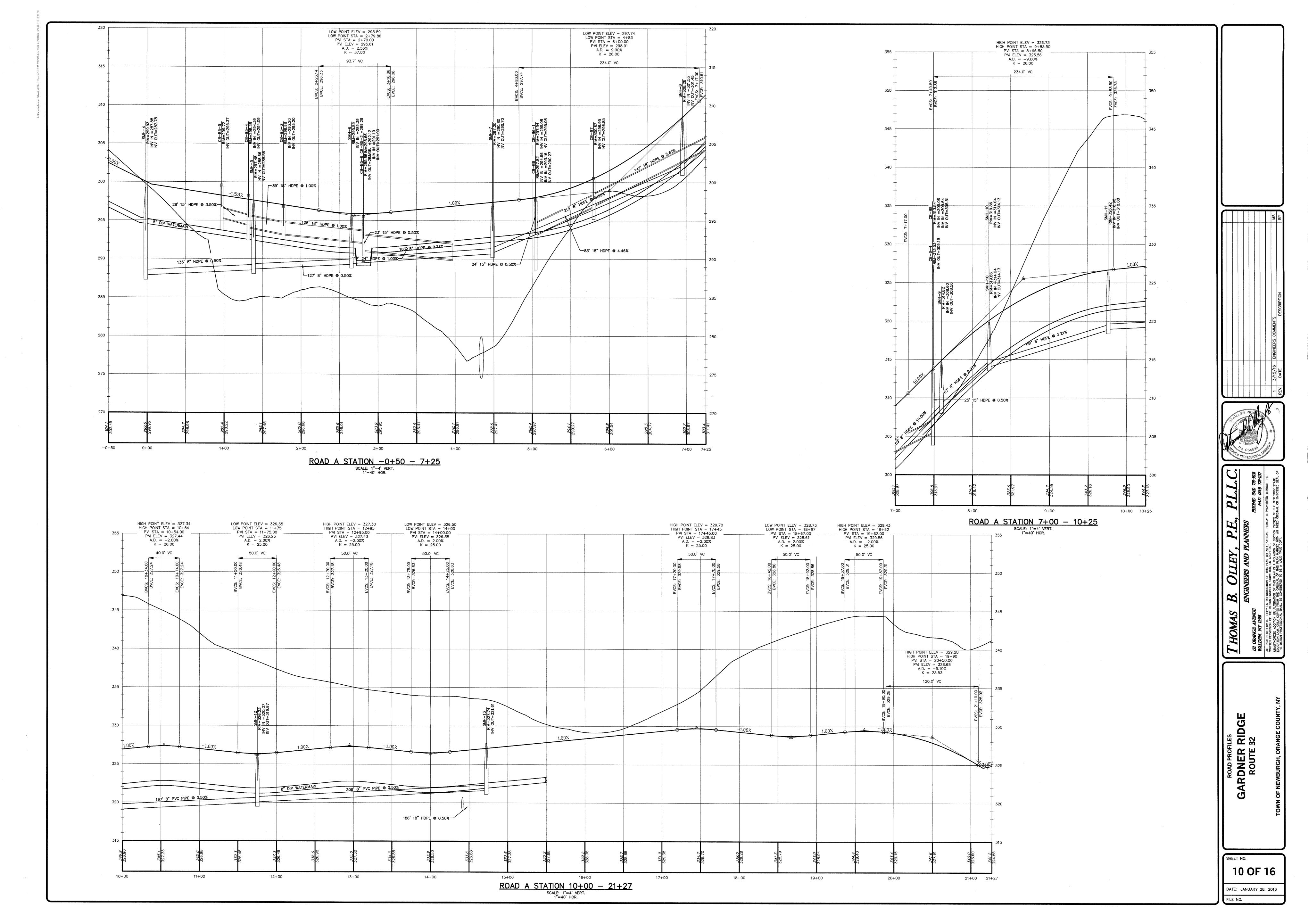


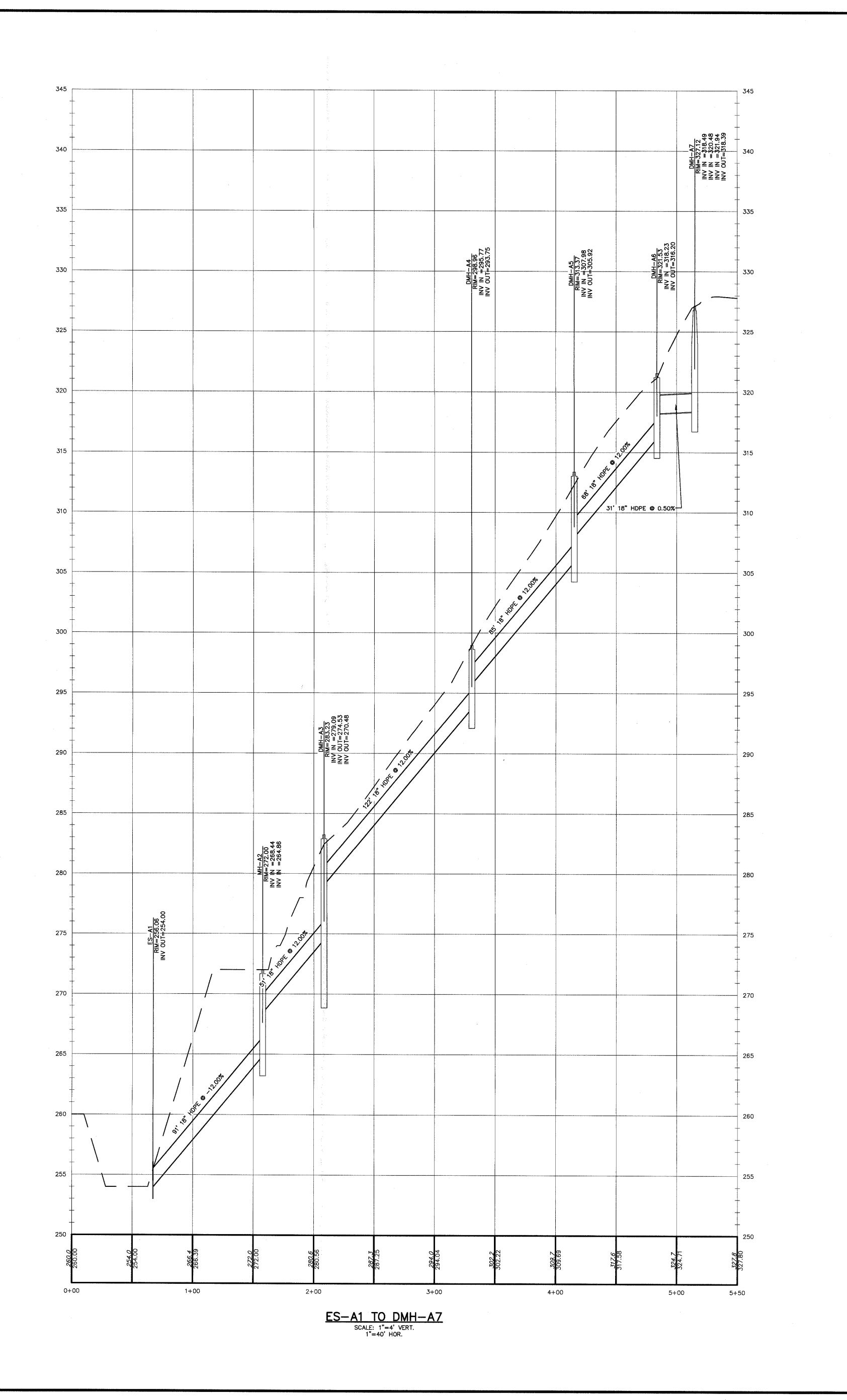


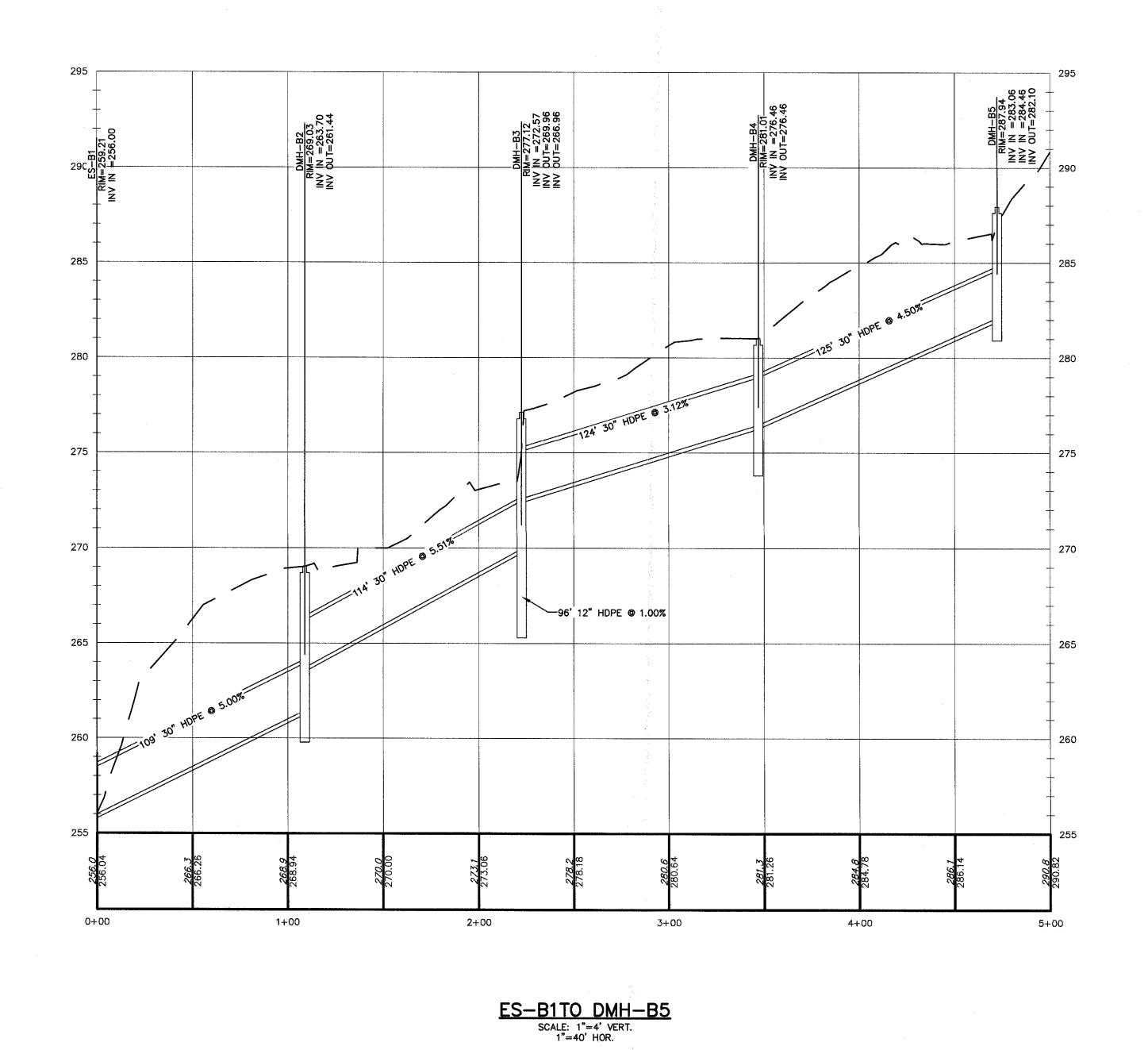
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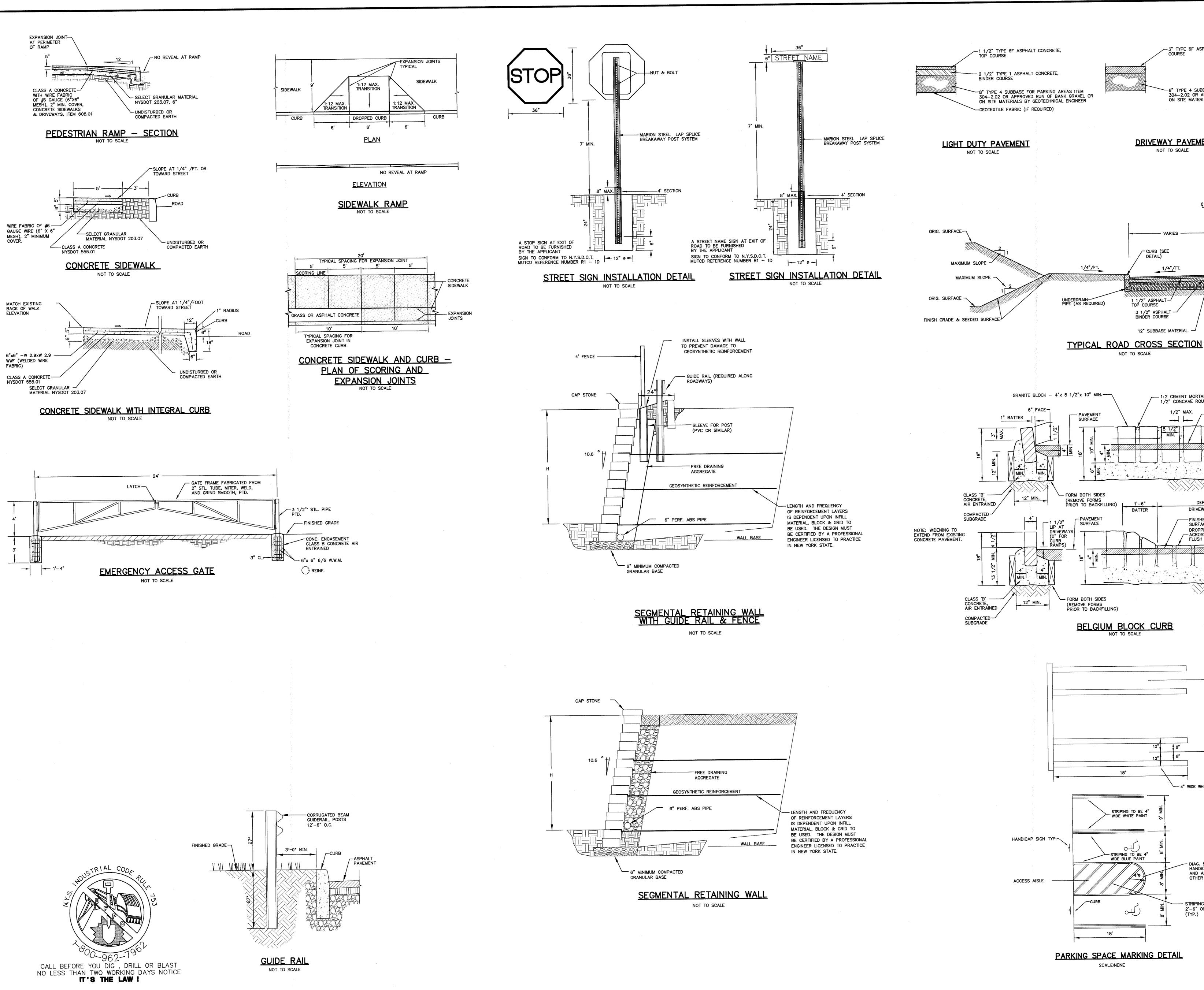


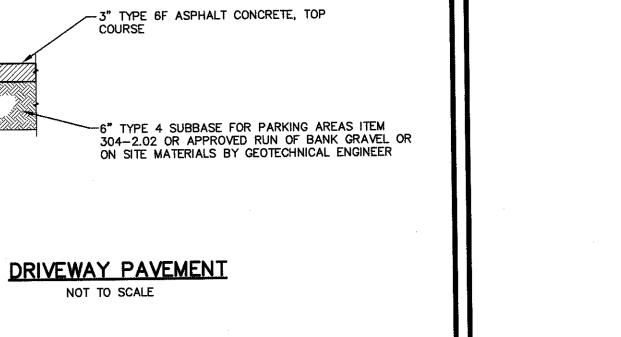


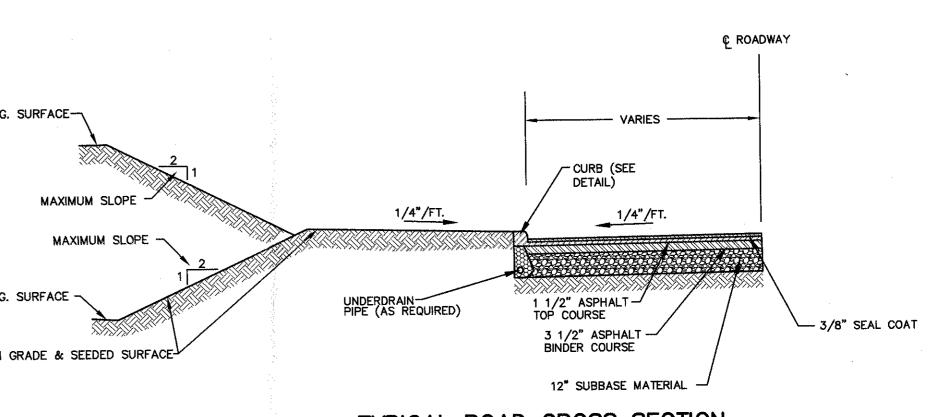


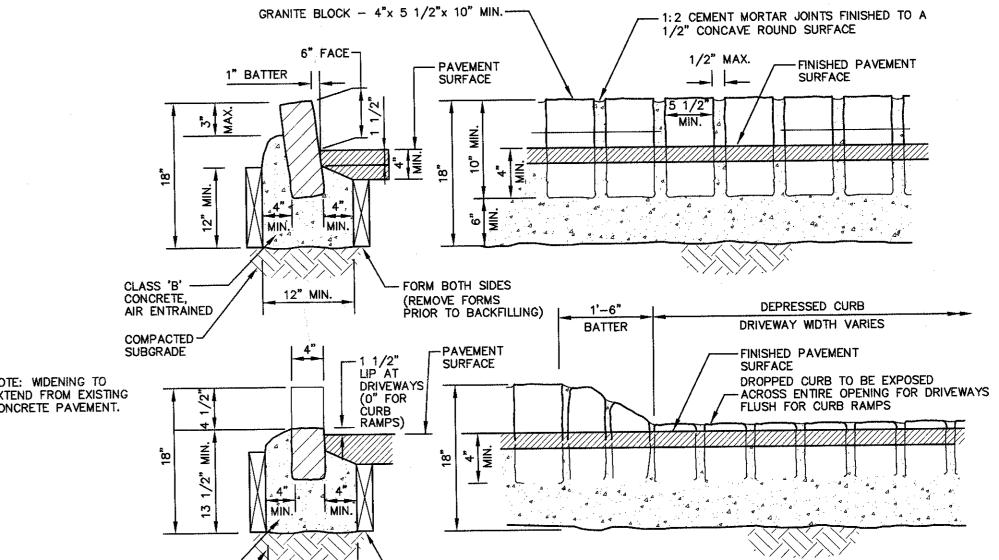


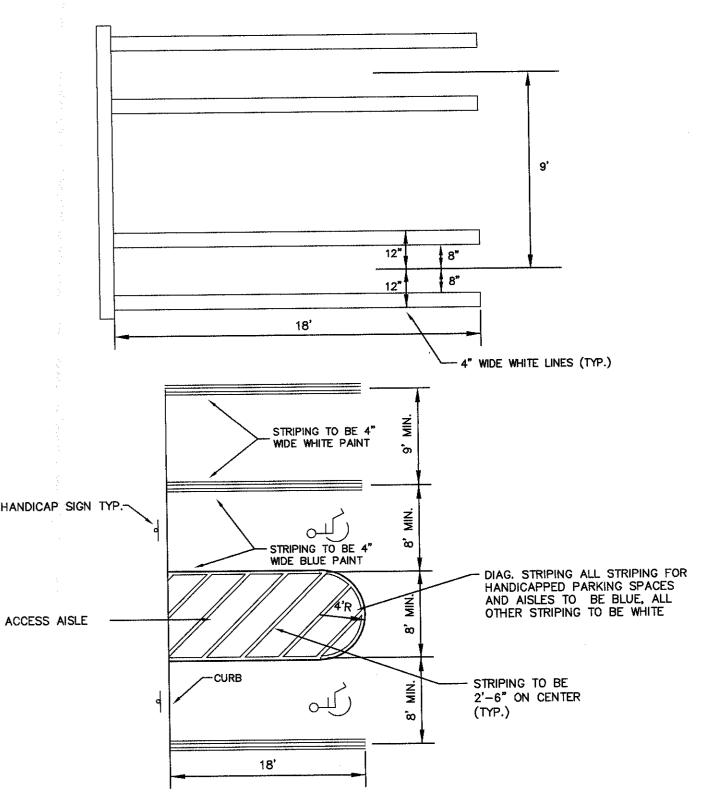
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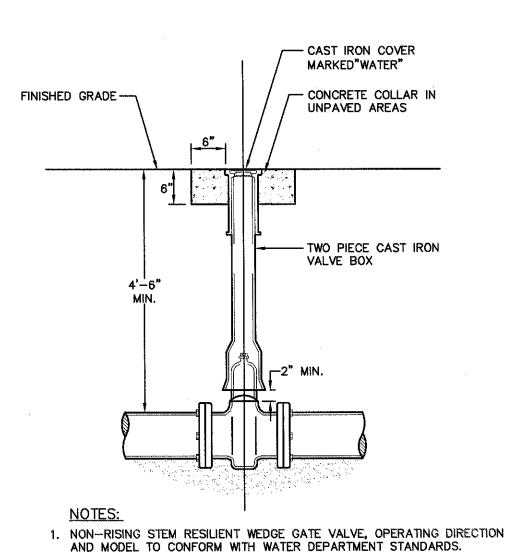


PARKING SPACE MARKING DETAIL

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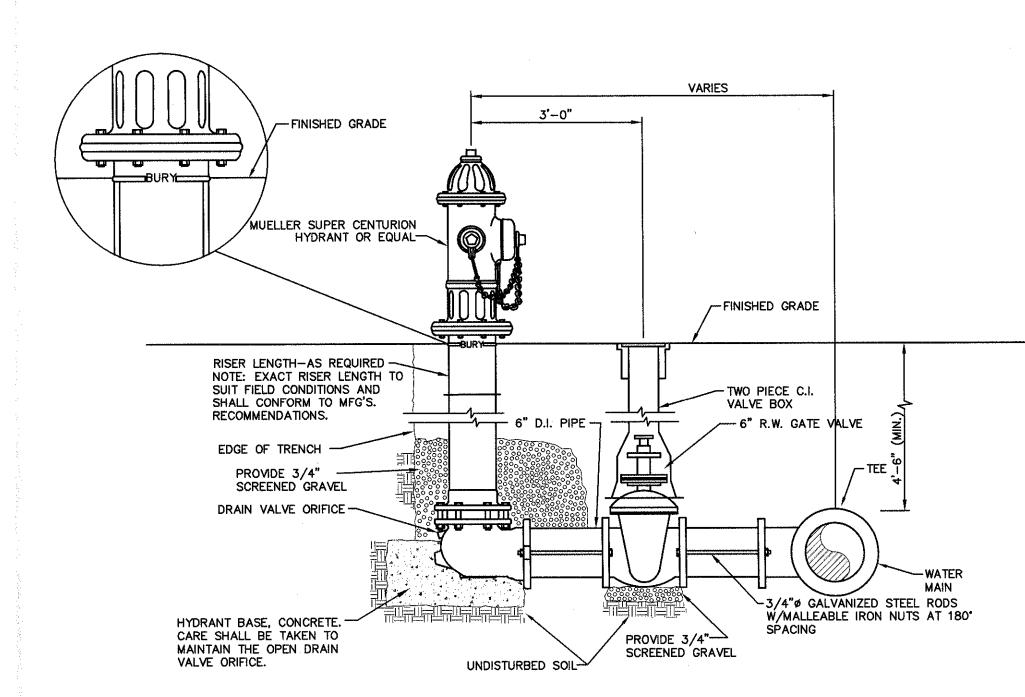
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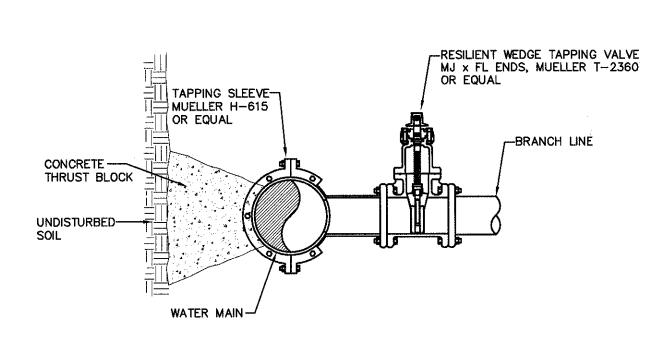
GATE VALVE DETAIL
NOT TO SCALE

NUTS AT 180°SPÀCING SHALL BE USED FOR RODDING VALVES.

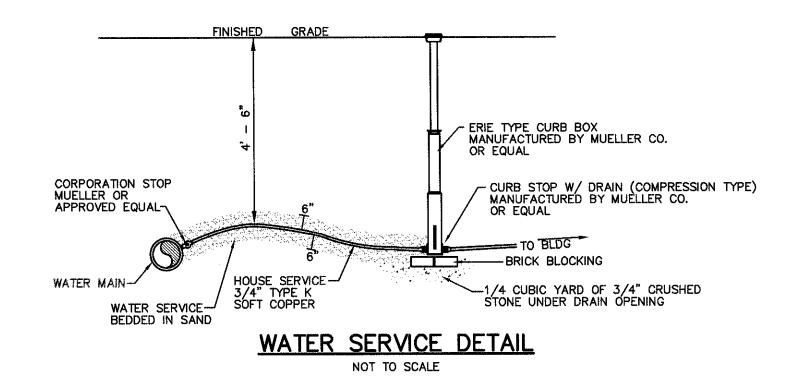
2. IF VALVE IS TO BE RODDED, PROVIDE VALVE WITH RODDING FLANGES OR EYEBOLTS. (2)3/4" GALVANIZED STEEL RODS WITH MALIABLE IRON

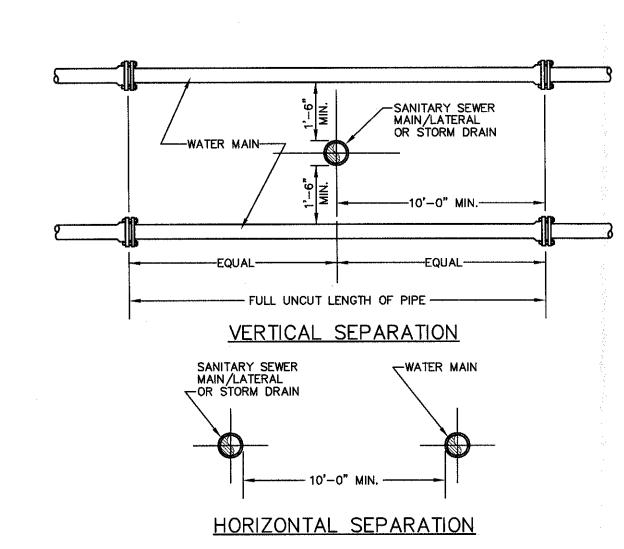


HYDRANT DETAIL



WET TAP DETAIL NOT TO SCALE



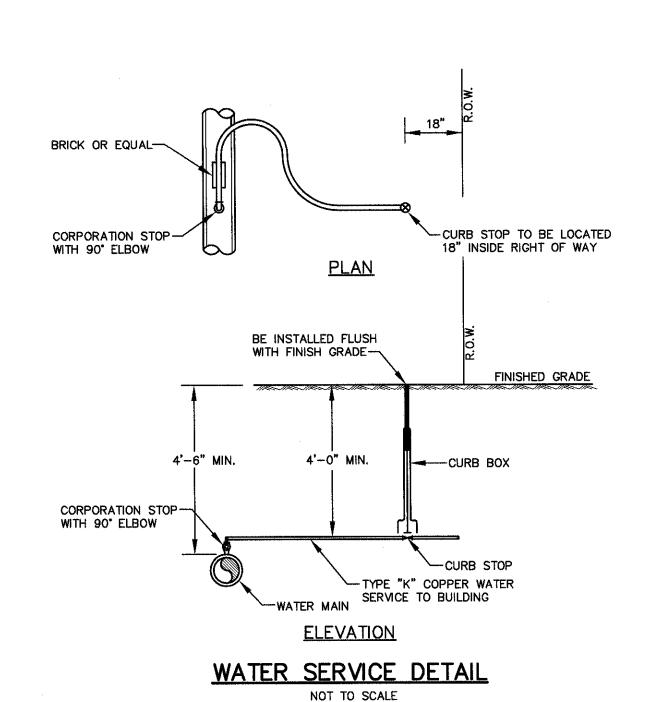


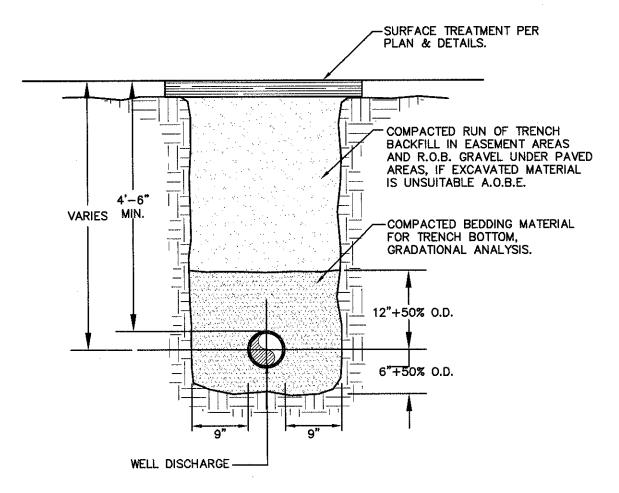
SANITARY/STORM SEWER-WATER MAIN SEPARATION DETAIL
NOT TO SCALE

1. NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE

EXPRESS APPROVAL OF THE DEPARTMENT OF HEALTH.

NOTE:





PIPE BEDDING SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND GRADED FROM FINE TO COARSE PARTICLES, OR A GRADED MIXTURE OF CRUSHED STONE OR CRUSHED GRAVEL. BEDDING MATERIAL OR STONE GRADATIONS USED SHALL BE APPROVED BY THE ENGINEER.

2. INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND WATER SERVICE PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING.

 THE PROPOSED WATERMAINS SHALL BE INSTALLED WITH A MINIMUM COVER OF 4.5 FEET AND SHALL BE CEMENT LINED DUCTILE IRON, CLASS 52. 4. SHEETING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.

> WATER PIPE TRENCH DETAIL NOT TO SCALE

SCH		DUCTI	F JOIN LE IRON PIPE (E LENGTHS - 1	DIP)		NT
PIPE SIZE		F	ITTING			
(INCHES)	90,	45 °	22 1/2*	TEE	INLINE VALVE	DEAD END (SEE NOTE 3)
12"	2	1	1	4	4	4
10"	2	1	1	4	4	4
8"	2	1	1	3	3	3
6"	1	1	1	2	2	2

SIDE OF THE FITTING, i.e., FOR A 8" PIPE A 90" BEND SHALL BE RESTRAINED 2 LENGTHS ON EACH SIDE OF THE

JOINTS ARE TO BE RESTRAINED TYPE USING RESTRAINED GLANDS OR TIE RODS, IN ACCORDANCE WITH THE LENGTHS SHOWN IN THE TABLE ABOVE.

3. DEAD ENDS MUST BE FULLY BACKFILLED BEFORE PRESSURE TESTING AND MUST HAVE BLOCKING (CONCRETE BLOCK) TO UNDISTURBED

4. THIS TABLE IS FOR COMPACTED R.O.B. GRAVEL PIPE BEDDING BELOW THE PIPE TO ONE FOOT ABOVE THE PIPE (AWWA TYPE 4

OR 5 LAYING CONDITIONS).

- 1. CONSTRUCTION OF POTABLE WATER UTILITIES AND CONNECTION TO THE TOWN OF NEWBURGH WATER SYSTEM REQUIRES A PERMIT FROM THE TOWN OF NEWBURGH WATER DEPARTMENT. ALL REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS OF THE NYSDOH AND THE TOWN OF NEWBURGH.
- 2. ALL WATER SERVICE LINES FOUR (4) INCHES AND LARGER IN DIAMETER SHALL BE CEMENT CLASS 52 DUCTILE IRON PIPE CONFORMING TO ANSI/AWWA C151/A21.51-91 FOR DUCTILE IRON PIPE. JOINTS SHALL BE EITHER PUSH-ON OR
- 3. THRUST RESTRAINT OF THE PIPE SHALL BE THROUGH THE USE OF JOINT RESTRAINT. THRUST BLOCKS ARE NOT ACCEPTABLE. JOINT RESTRAINT SHALL BE THROUGH THE USE OF MECHANICAL JOINT PIPE WITH RETAINER GLANDS. ALL FITTINGS AND VALVES SHALL ALSO BE INSTALLED WITH RETAINER GLANDS FOR JOINT RESTRAINT. RETAINER GLANDS
- 4. ALL FITTINGS SHALL BE CAST IRON OR DUCTILE IRON, MECHANICAL JOINT, CLASS 250 AND CONFORM TO ANSI\AWWA C110\A21.10-87 FOR DUCTILE AND GRAY IRON FITTINGS OR ANSI\AWWA C153\A21.53-94 FOR DUCTILE IRON COMPACT
- 5. ALL VALVES SHALL BE DOUBLE-DISC, MECHANICAL JOINT GATE VALVES CONFORMING TO ANSI\AWWA C500-93 SUCH AS
- 7. ALL WATER SERVICE LINES TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING. CORPORATION STOPS SHALL BE MUELLER H-15020 FOR 3/4 AND 1 INCH, MUELLER H-15000 OR B-25000 FOR 1 1/2 AND 2 INCH SIZES. CURB VALVES SHALL BE MUELLER H-1501-2 FOR 3/4 AND 1 INCH AND MUELLER B-25204 FOR 1 1/2 AND 2 INCH SIZES. CURB BOXES SHALL BE MUELLER H-10312 FOR 3/4 AND 1 INCH AND MUELLER H-10310 FOR 1 1/2 AND 2 INCH SIZES.
- 8. ALL PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF NEWBURGH WATER DEPARTMENT. THE WATER DEPARTMENT.
- 9. THE WATER MAIN SHALL BE TESTED, DISINFECTED AND FLUSHED IN ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS. ALL TESTING, DISINFECTION AND FLUSHING SHALL BE COORDINATED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT. PRIOR TO PUTTING THE WATER MAIN IN SERVICE SATISFACTORY SANITARY RESULTS FROM A CERTIFIED LAB MUST BE SUBMITTED TO THE TOWN OF NEWBURGH WATER DEPARTMENT. THE TEST SAMPLES MUST BE COLLECTED BY A REPRESENTATIVE OF THE TESTING LABORATORY AND WITNESSED BY THE TOWN OF NEWBURGH WATER DEPARTMENT.

)			
SCH		DUCT	F JOIN ILE IRON PIPE (E LENGTHS - 1	(DIP)		INT
E SIZE			ITTING			
CHES)	90,	45 °	22 1/2*	TEE	INLINE VALVE	DEAD END (SEE NOTE 3)
12"	2	1	1	4	4	4
10"	2	1	1	4	4	4
-!!				-	-,	-

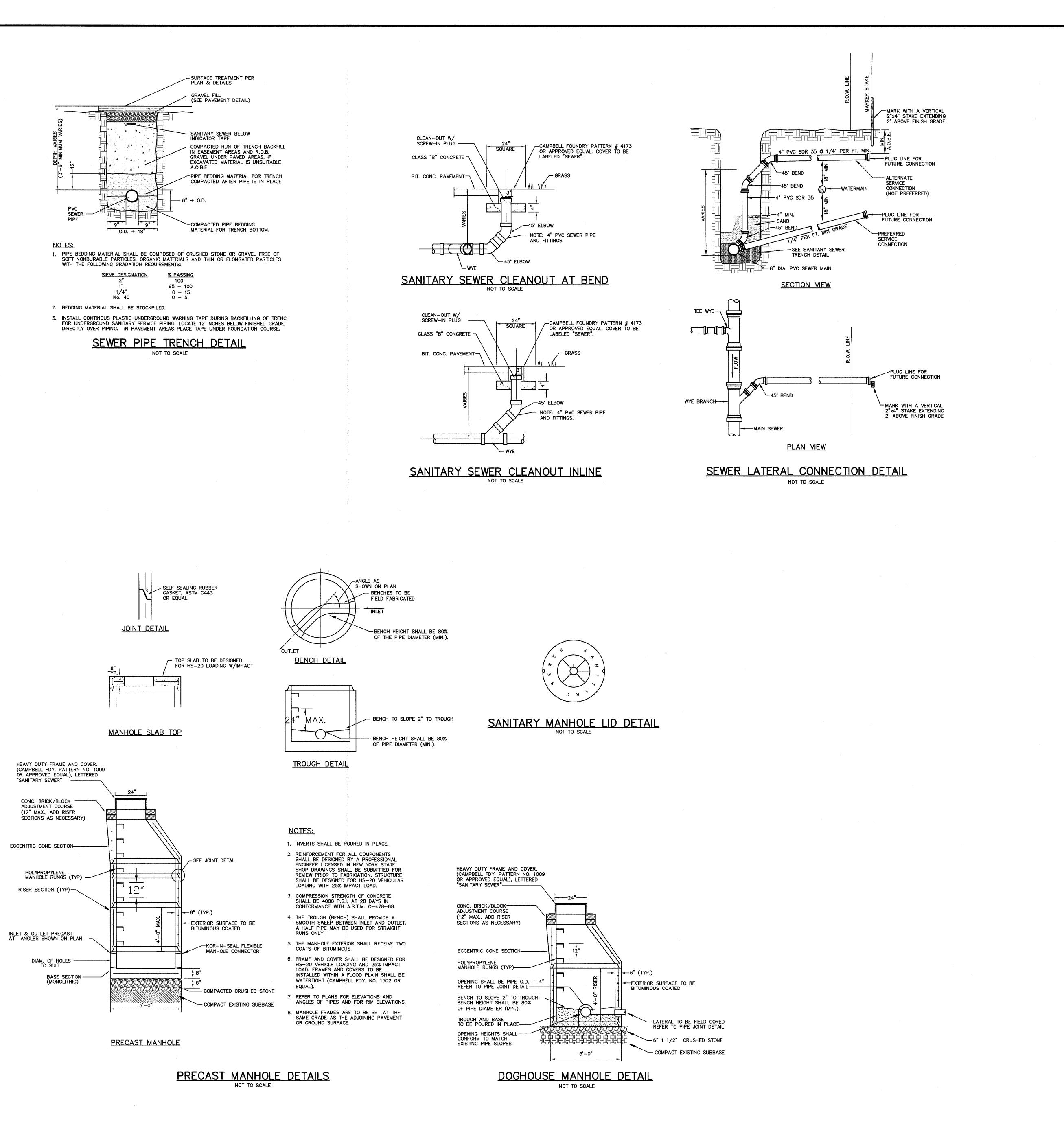
NOTE:
1. LENGTH OF PIPE TO BE RESTRAINED IS LENGTH FOR EACH

TOWN OF NEWBURGH WATER SYSTEM NOTES

- MECHANICAL JOINT AS REQUIRED.
- SHALL BE EBBA IRON MEGALUG SERIES 1100 OR APPROVED EQUAL. THE USE OF A MANUFACTURED RESTRAINED JOINT PIPE IS ACCEPTABLE WITH PRIOR APPROVAL OF THE WATER DEPARTMENT.
- MUELLER A-2300-23 OR APPROVED EQUAL.
- 6. ALL VALVES SHALL BE DOUBLE-DISC, MECHANICAL JOINT GATE VALVES CONFORMING TO ANSI\AWWA C500-93 SUCH AS MUELLER A-2300-23 OR APPROVED EQUAL.
- CONTACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS AS REQUIRED WITH THE TOWN OF NEWBURGH

SHEET NO. 13 OF 16

FILE NO.



SANITARY SEWER NOTES:

- 1. ALL SANITARY GRAVITY PIPE SHALL BE SDR 35 PVC UNLESS OTHERWISE NOTED, ALL SANITARY SEWER MAINS AND SERVICE LATERALS SHALL BE SEPARATED FROM THE WATER MAINS AND WATER SERVICE CONNECTIONS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY OR 18 INCHES VERTICALLY IF HORIZONTAL SEPARATION IS NOT
- 2. ALL NEW SANITARY SEWER LINES SHALL PASS A LOW PRESSURE AIR TEST AND ALL NEW SANITARY SEWER MANHOLES SHALL PASS HYDROSTATIC TESTS OR VACUUM
- 3. ALL NEW SANITARY SEWER MANHOLE COVERS SHALL BE 24" DIAMETER CAST IRON AND SHALL READ "SANITARY
- 4. ALL SANITARY SEWER CONSTRUCTION SHALL BE SUBJECT TO INSPECTION BY THE MUNICIPAL SEWER SUPERINTENDENT
- 5. THE DESIGN, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF

PRIOR TO BACKFILLING.

- ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:

 "NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL"
- CONSERVATION AND ULSTER COUNTY DEPARTMENT OF HEALTH POLICIES, PROCEDURES AND STANDARDS."

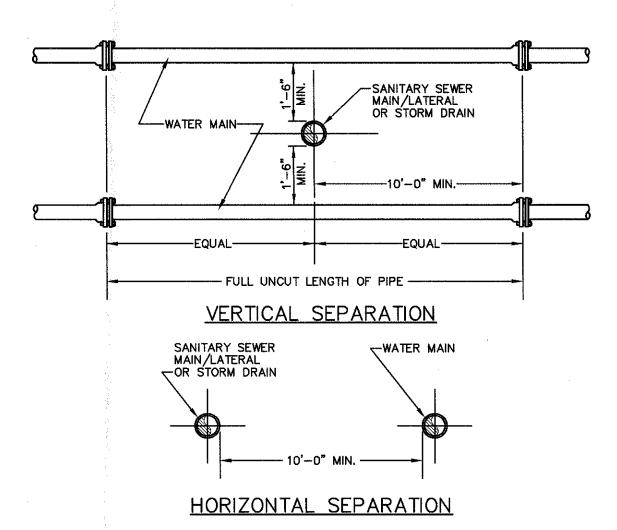
 ORANGE COUNTY DEPARTMENT OF HEALTH SANITARY CODE:
- "RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES, 2014", GLUMRB.
- "DESIGN STANDARDS FOR WASTEWATER TREATMENT WORKS, 2014", NYSDEC.
- 6. ALL WELLS AND SUBSURFACE SEWAGE DISPOSAL SYSTEMS EXISTING OR APPROVED WITHIN 200' OF THE PROPOSED WATER AND SEWAGE UTILITIES ARE SHOWN ON THIS PLAN ALONG WITH ANY OTHER KNOWN ENVIRONMENTAL HAZARDS IN THE AREA THAT MAY AFFECT THE DESIGN AND FUNCTIONAL ABILITY OF THE WATER AND SEWAGE UTILITIES.
- NO CELLAR, ROOF OR FOOTING DRAINS SHALL BE DISCHARGED INTO THE SEWAGE SYSTEM.

TOWN OF NEWBURGH SANITARY SEWER SYSTEM NOTES

- 1. CONSTRUCTION OF SANITARY SEWER FACILITIES AND CONNECTION TO THE TOWN OF NEWBURGH SANITARY SEWER SYSTEM REQUIRES A PERMIT FROM THE TOWN OF NEWBURGH SEWER DEPARTMENT. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE NYSDEC AND THE TOWN OF NEWBURGH.
- 2. ALL SEWER PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF NEWBURGH SEWER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS AS REQUIRED WITH THE TOWN OF NEWBURGH SEWER DEPARTMENT.
- 3. ALL GRAVITY SANITARY SEWER SERVICE LINES SHALL BE 4 INCHES IN DIAMETER OR LARGER AND SHALL BE SDR-35 PVC PIPE CONFORMING TO ASTM D-3034-89. JOINTS SHALL BE PUSH-ON WITH ELASTOMERIC RING GASKET CONFORMING ASTM D-3212. FITTINGS SHALL BE AS MANUFACTURED BY THE PIPE SUPPLIER OR EQUAL AND SHALL HAVE A BELL AND SPIGOT CONFIGURATION COMPATIBLE WITH THE PIPE.
- 4. THE SEWER MAIN SHALL BE TESTED IN ACCORDANCE WITH TOWN OF NEWBURGH REQUIREMENTS. ALL TESTING SHALL BE COORDINATED WITH THE TOWN OF NEWBURGH SEWER DEPARTMENT.

RESPECTIVE DEPARTMENT.

5. THE FINAL LAYOUT OF THE PROPOSED WATER AND/OR SEWER CONNECTION, INCLUDING ALL MATERIALS, SIZE AND LOCATION OF SERVICE AND ALL APPURTENANCES, IS SUBJECT TO THE REVIEW AND APPROVAL OF THE TOWN OF NEWBURGH WATER AND/OR SEWER DEPARTMENT. NO PERMITS SHALL BE ISSUED FOR A WATER AND/OR SEWER CONNECTION UNTIL A FINAL LAYOUT IS APPROVED BY THE



NOTE:

1. NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE DEPARTMENT OF HEALTH.

SANITARY/STORM SEWER-WATER MAIN
SEPARATION DETAIL
NOT TO SCALE

2 5/30/17 ENGINEERS COMMENTS
1 3/15/16 ENGINEERS COMMENTS
NST NATE DESCRIPTION BY



HOMAS D. CLLEY, I.L., I.L.L.

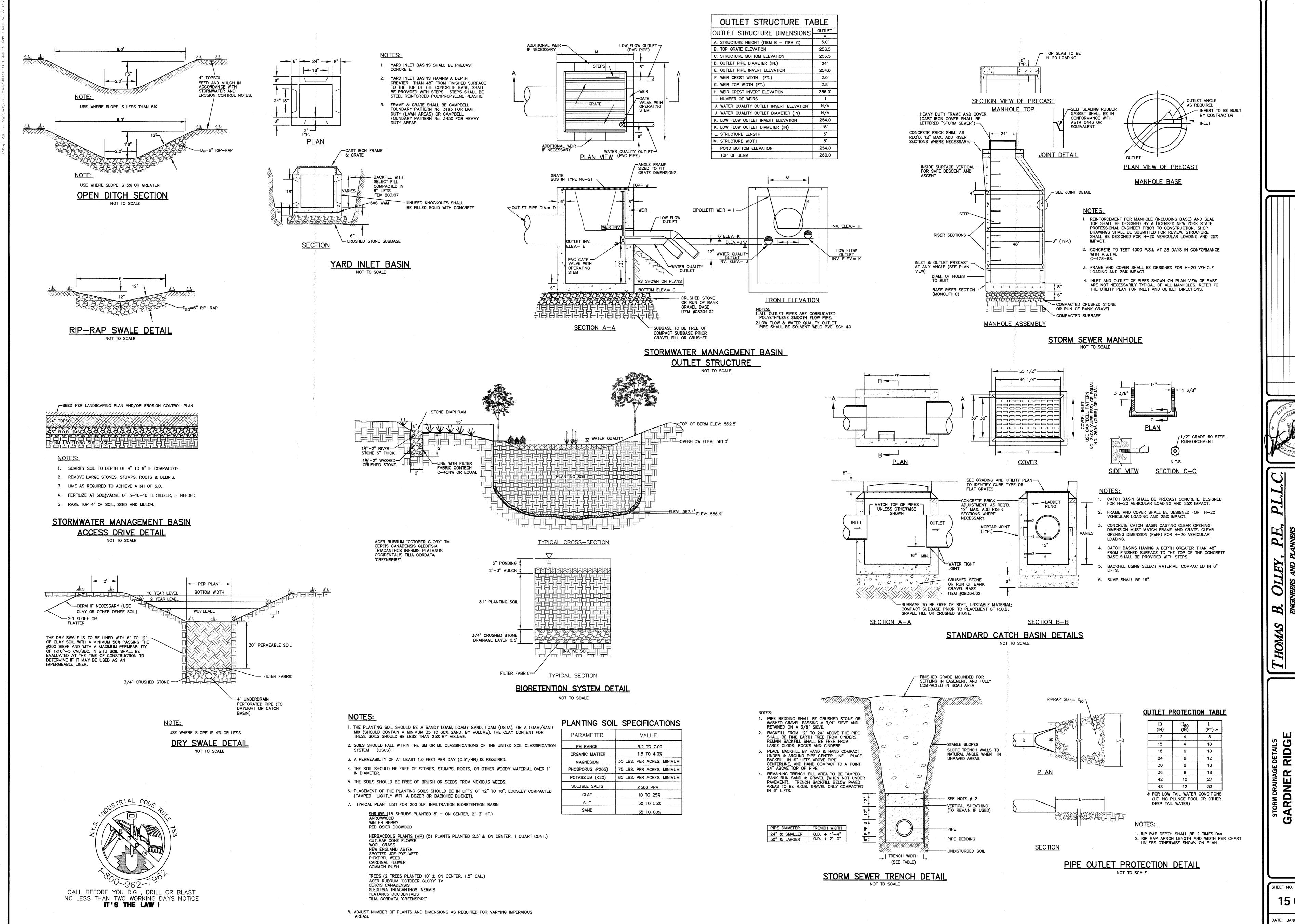
ENGINEERS AND PLANNERS
PHONE: (845) 778WALDEN, NY 1286

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GARDNER RIDGE
ROUTE 32

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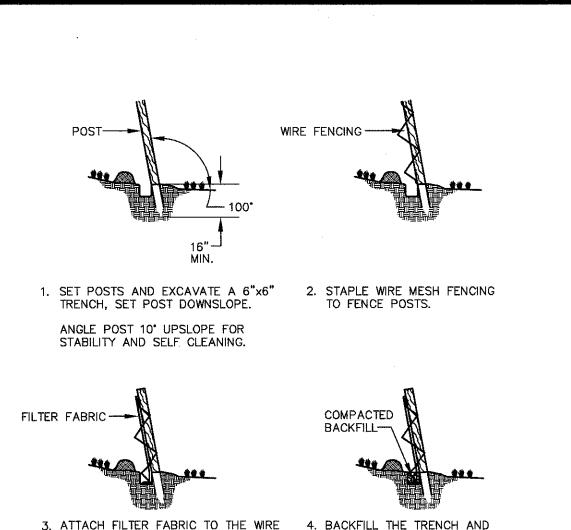


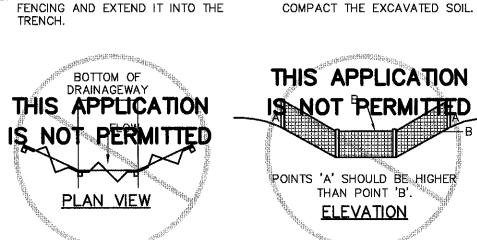
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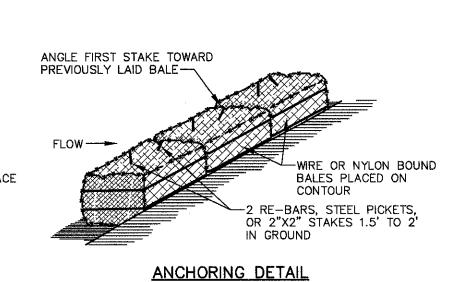
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PLACEMENT AND CONSTRUCTION OF A SILT FENCE BARRIER NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

ADJACENT BALES. 2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4". 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES

1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE

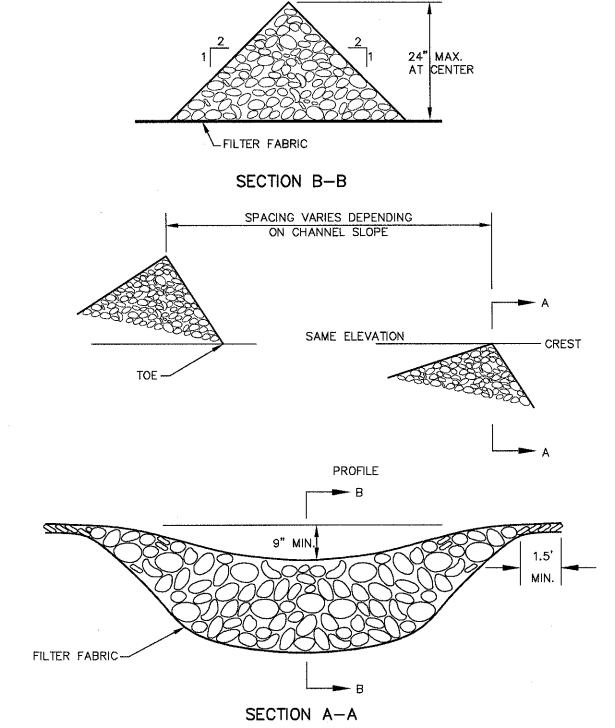
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL-NESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

6. HAYBALES SHALL BE PLACED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL.

HAY BALE DETAILS

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS:

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION. 2. SET SPACING OF CHECK DAMS TO ESTABLISH THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.

3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.

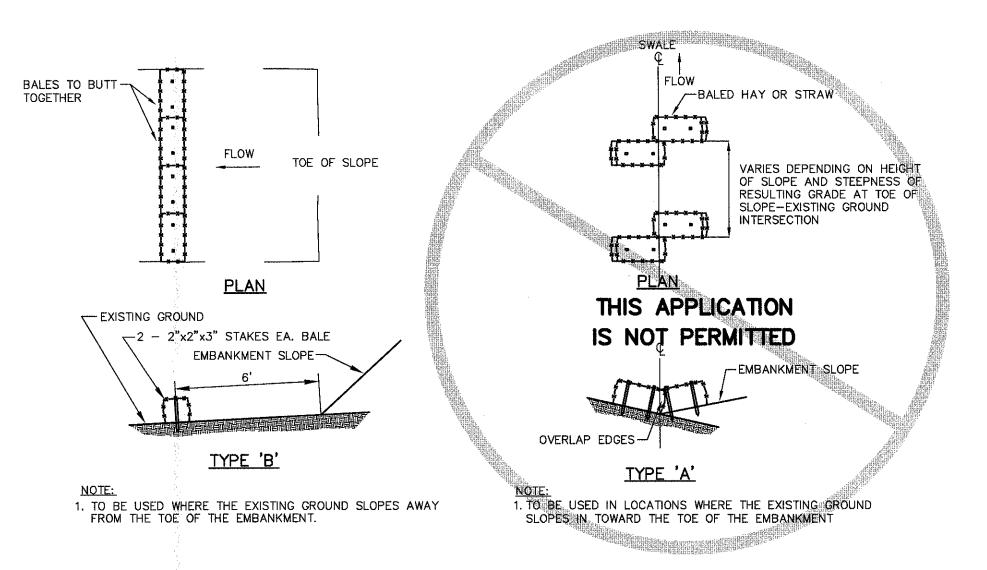
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.

5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM

6. USE GRADED STONE 2 TO 15 INCHES IN SIZE (NYS-DOT LIGHT STONE FILL MEETSTHESE REQUIREMENTS).

CHECK DAM DETAILS

NOT TO SCALE

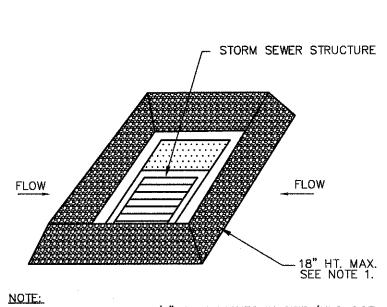


HAY BALE CHECK DAM

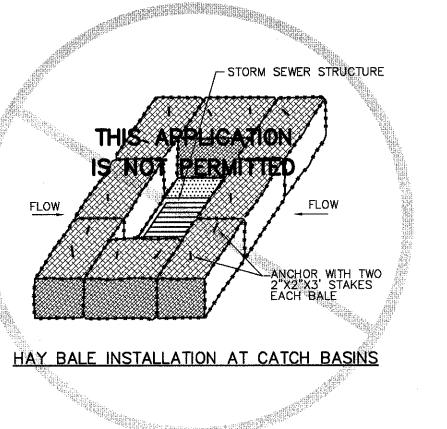
LTWO STAKES PER BALE TYP. PLAN VIEW -STAKED STRAW BALE PLACE STAKE 1.5' TO 2'-IN GROUND CROSS SECTION

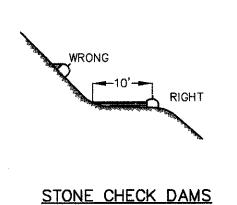
1. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF FOUR (4) INCHES AND PLACED SO THE BINDINGS ARE 2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO STAKES DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER.

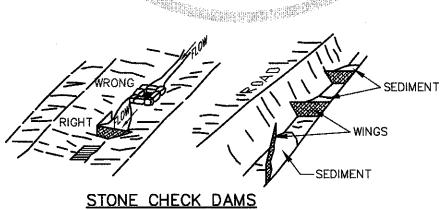
HAYBALE STABILIZATION DETAIL NOT TO SCALE



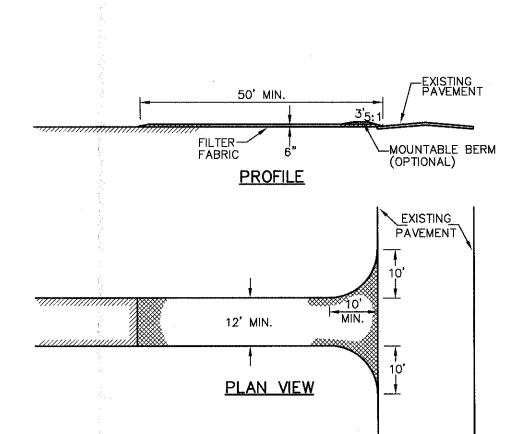
1. USE GRADED STONE 3/4" TO 2 INCHES IN SIZE (NYS-DOT LIGHT STONE FILL MEETS THESE REQUIREMENTS). STONE CHECK INSTALLATION AT CATCH BASINS







SEDIMENT CONTROL STRUCTURES



CONSTRUCTION ENTRANCE NOTES

1. SURFACE SHALL BE 2" CRUSHED STONE OR RECLAIMED/RECYCLED CONCRETE. 2. THE MINIMUM LENGTH SHALL BE 50 FEET (30' FOR A SINGLE RESIDENCE LOT).

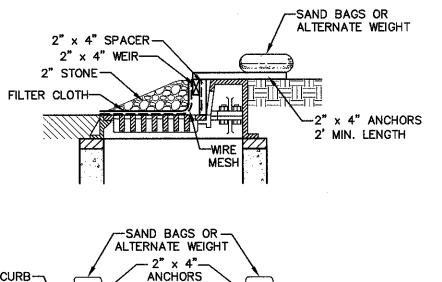
3. THE TRACKING PAD SHALL BE A MINIMUM OF 6" DEEP STONE. 4. THE MINIMUM WIDTH SHALL BE 12 FEET.

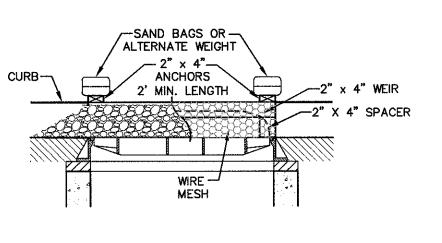
5. A FILTER FABRIC SHALL BE PLACED UNDER THE ENTRANCE PRIOR TO PLACEMENT OF THE STONE (CONTECH C-40NW OR EQUAL).

6. SURFACE WATER SHALL BE DIVERTED AWAY FROM THE CONSTRUCTION ENTRANCE THROUGH THE USE OF DIVERSION SWALES AND PIPING. IF PIPING IS IS NOT FEASIBLE, THEN A MOUNTABLE BERM WITH 5:1 SLOPES SHALL BE USED.

7. THE STABILIZED CONSTRUCTION ENTRANCE SURFACE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD OR SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. PERIODIC TOP DRESSING WITH ADDITIONAL STONE WILL BE NEEDED AS CONDITIONS DEMAND. REPAIR AND CLEAN ALL MEASURES USED TO TRAP SEDIMENT. ANY SEDIMENT THAT IS TRANSPORTED ON TO THE PUBLIC RIGHT OF WAY (IN ANY MANNER) MUST BE REMOVED

STABILIZED CONSTRUCTION ENTRANCE



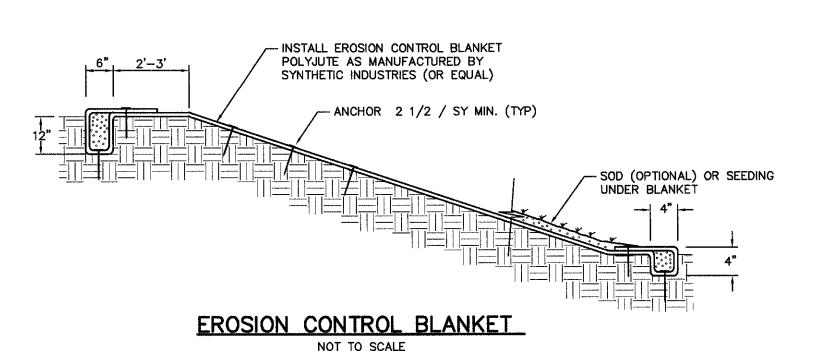


1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. 2. WOODEN FRAME SHALL BE CONSTRUCTED OF 2" x 4" CONSTRUCTION GRADE LUMBER. 3. WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30 INCH MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT. IT

SHALL BE SHAPED AND SECURELY NAILED TO A 2" x 4" WEIR. 4. THE WEIR SHALL BE SECURELY NAILED TO 2" x 4" SPACERS 9 INCHES LONG SPACED NO MORE THAN 6 FEET APART. 5. THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND SECURED BY 2" x 4" ANCHORS 2 FEET LONG EXTENDING ACROSS THE TOP OF THE INLET AND HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHTS.

CURB DROP INLET PROTECTION

6. MAXIMUM DRAINAGE AREA 1 ACRE



GENERAL CONSTRUCTION NOTES:

- 1. ALL CONTRACTORS SHALL COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN WRITTEN FOR THIS PROJECT.
- 2. CONTRACTOR SHALL CHECK AND VERIFY ALL CONDITIONS AT THE SITE PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL BE FAMILIAR WITH THE INTENT OF THIS PLAN AND ENSURE THAT WORK TO BE PERFORM IS THE SAME.
- 3. CONTRACTOR SHALL OBTAIN ALL REQUIRED APPROVALS, PERMITS, INSPECTION APPROVALS, ETC. FOR WORK PERFORMED FROM AGENCIES HAVING JURISDICTION
- 4. IF IN THE COURSE OF CONSTRUCTION A CONDITION EXISTS WHICH DISAGREES WITH THAT AS INDICATED ON THESE PLANS, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE ENGINEER. SHOULD HE FAIL TO FOLLOW THIS PROCEDURE AND CONTINUE WITH THE WORK, HE SHALL ASSUME ALL RESPONSIBILITY AND LIABILITY ARISING
- 5. COMPACTION OF ALL FILL MATERIAL SECTIONS SHALL BE COMPLETED IN 6" LIFTS. EACH LIFT SHALL BE COMPACTED TO 95% OF THE PROCTOR DENSITY.
- 6. MAINTAIN POSITIVE EROSION CONTROL DURING THE OPERATION UNTIL THE SITE IS
- 7. THE CONTRACTOR SHALL PROVIDE ADDITIONAL TOPSOIL FOR RECLAMATION PROCEDURES AS NEEDED.
- 8. THE ENTIRE SITE IS TO BE STABILIZED WITH VEGETATION WHEN FINAL GRADES ARE REACHED.
- 9. TEMPORARY SEED MIX SHALL BE PERENNIAL RYEGRASS @ 30 POUNDS/ACRE OR AS
- 10. PERMANENT SEED MIX SHALL BE THE FOLLOWING: COMMON WHITE CLOVER 8 LBS/ACRE, TALL FESCUE 20 LBS/ACRE, PERENNIAL RYEGRASS 5 LBS/ACRE OR AS

RECOMMENDED BY THE SULLIVAN COUNTY SOIL CONSERVATION DISTRICT.

- RECOMMENDED BY THE SULLIVAN COUNTY SOIL CONSERVATION DISTRICT. 11. THE OPTIMUM TIME FOR SEEDING IS EARLY SPRING AND LATE AUGUST. HOWEVER
- SEEDING MAY BE PERFORMED AT OTHER TIMES PER YEAR IF PROPERLY MULCHED AND ADEQUATE MOISTURE PROVIDED. SEEDING IN AREAS THAT FAIL MUST BE RESEEDED DURING THE FOLLOWING OPTIMUM TIME FOR SEEDING.
- 12. CONTRACTORS SHALL NOTE THAT SOME OF THE SOILS LOCATED ON THE SITE ARE KNOWN TO HAVE PERCHED WATER TABLES. UPON ENCOUNTERING GROUNDWATER THE CONTRACTOR MAY MITIGATE EROSION AND SLOPE STABILITY IMPACTS BY ANY OF THE APPLICABLE METHODS DISCUSSED IN THE STORMWATER POLLUTION PREVENTION PLAN FOR THIS PROJECT OR SCHEDULING CONSTRUCTION IN THESE AREAS SO AS TO AVOID THEM DURING WET PERIODS OF THE

EROSION & SEDIMENT CONTROL MEASURES

1. TEMPORARY DIVERSION SWALES TEMPORARY DIVERSION SWALES WILL BE INSTALLED IMMEDIATELY UPHILL OF AREAS SCHEDULED TO BE DISTURBED FOR THE PURPOSE OF DIVERTING STORMWATER. SWALES SHALL BE MAINTAINED UNTIL THE REGRADED SITE IS STABILIZED WITH PERMANENT SEEDING.

2. STABILIZED CONSTRUCTION ENTRANCE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE(S) SHALL BE INSTALLED IMMEDIATELY ADJACENT TO THE EXISTING PAVEMENT. DURING WET WEATHER IT MAY NECESSARY TO WASH VEHICLE TIRES AT THIS LOCATION. THE ENTRANCE SHALL BE GRADED OFF SO THAT RUNOFF WILL BE DIRECTED TO AN EXISTING CATCH BASIN AND AWAY FROM THE PAVEMENT. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING CATCH BASINS.

SILT FENCES SHALL BE INSTALLED IN THE LOCATIONS SPECIFIED ABOVE, AROUND TOPSOIL STOCKPILE AREAS, AT THE BASE OF ALL DISTURBED SLOPES, AND AT INTERVALS NECESSARY TO PREVENT CONCENTRATION OF FLOW.

4. <u>VEGETATION PROTECTION</u>

LIMIT SOIL PLACEMENT OVER EXISTING TREES AND SHRUB ROOTS TO A MAXIMUM OF 3 INCHES. USE SOILS WITH LOAMY TEXTURES AND GOOD STRUCTURE. CONSTRUCT STURDY FENCES, WOOD OR STEEL BARRIERS, OR OTHER PROTECTIVE DEVICES TO SURROUND AND PROTECT SENSITIVE OR VALUABLE VEGETATION FROM CONSTRUCTION EQUIPMENT. PLACE BARRIERS FAR ENOUGH FROM TREES SO THAT TALL EQUIPMENT SUCH AS BACKHOES AND DUMP TRUCKS DO NOT DAMAGE TREE BRANCHES.

CONSTRUCTION LIMITS SHOULD BE IDENTIFIED AND CLEARLY MARKED TO EXCLUDE EQUIPMENT. IT IS STRONGLY RECOMMENDED THAT CONSTRUCTION FENCING BE UTILIZED TO PROTECT AREAS THAT ARE NOT TO BE DISTURBED. OBSTRUCTIVE AND BROKEN BRANCHES SHOULD BE PRUNED PROPERLY. EXISTING VEGETATION SHOULD BE PRESERVED WHERE ATTAINABLE.

5. LAND GRADING FINISH LAND SURFACES WILL BE GRADED AS INDICATED ON THE PLANS. AT A MAXIMUM, NO

AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL. REMOVE TREES, VEGETATION, ROOTS, OR OTHER UNACCEPTABLE MATERIAL. FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER ORGANIC MATERIAL. FROZEN MATERIAL SHALL NOT BE PLACED IN THE FILL NOR SHALL THE FILL MATERIAL BE PLACED ON A FROZEN FOUNDATION.

MORE THAN 5 ACRES OF UNPROTECTED SOIL SHOULD BE EXPOSED AT ANY ONE TIME.

UNLESS OTHERWISE NOTED, PROVIDE TEMPORARY VEGETATION BY SEEDING BARE SOIL WITHIN 7 DAYS OF EXPOSURE UNLESS CONSTRUCTION WILL BEGIN WITHIN 14 DAYS. IF CONSTRUCTION IS SUSPENDED, ALL AREAS SHALL BE SEEDED AND MULCHED IMMEDIATELY.

FINISH GRADING SHALL BE COMPLETED SO AS TO PREVENT WATER FROM STANDING ON THE SURFACE OF LAWNS FOR MORE THAN 24 HOURS AFTER THE END OF A RAINFALL.

TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION WILL BE STOCKPILED IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED, NON-SODDED AREAS. STOCKPILES SHALL BE SEEDED IN ACCORDANCE WITH THESE PLANS.

AREAS THAT ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF THREE INCHES PRIOR TO PLACEMENT OF TOPSOIL.

15 MPH CONSTRUCTION ZONE SPEED LIMIT SIGNS SHALL BE ERECTED IN ALL AREAS WHERE DUSTLESS SURFACES HAVE NOT BEEN CONSTRUCTED.

CONSTRUCTION OPERATIONS SHALL BE SCHEDULED TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ONE TIME. BUFFER AREAS OF VEGETATION SHALL BE LEFT WHERE POSSIBLE. THE SITE, INCLUDING HAUL ROADS AND ACCESS ROADS, CAN BE SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. THE FOLLOWING SPRAY ADHESIVES CAN BE USED ON MINERAL

	MATERIAL	WATER DILUTION	TYPE OF NOZZLE	
	ACRYLIC POLYMER	9:1	COARSE SPRAY	
	LATEX EMULSION	12.5:1	FINE SPRAY	
:	RESIN IN WATER	4:1	FINE SPRAY	

7. TEMPORARY AND PERMANENT SEEDING SEEDING PREPARATION INCLUDES REMOVAL OF DEBRIS, ROCKS, STUMPS AND OTHER UNACCEPTABLE MATERIALS. COMPACTED SOIL SHALL BE SCARIFIED PRIOR TO PLACEMENT OF TOPSOIL. ADJUST PH TO 6.0 WITH LIME AND FERTILIZE WITH 600 LBS OF 5-10-10 OR EQUIVALENT PER ACRE. ALL DISTURBED AREAS SHALL BE TEMPORARILY SEEDED IF CONSTRUCTION DOES NOT RESUME IN 7 DAYS. AND BEFORE ANY SIGNIFICANT STORM EVENT WHICH MAY HAVE THE POTENTIAL TO CAUSE EROSION.

ALL APPROVED STOCKPILES AND OTHER DISTURBED OR GRADED AREAS SHALL BE SEEDED WITHIN 14 CALENDAR DAYS PROVIDED CONSTRUCTION GRADING ACTIVITY IS NOT CONTINUALLY ONGOING IN THESE LOCATIONS.

APPLY TEMPORARY SEEDING CONSISTING OF QUICK GERMINATING RYEGRASS (ANNUAL OR PERENNIAL) AT 30 LBS. PER. ACRE.

PERMANENT SEEDING SHALL BE COMPLETED WITHIN 7 DAYS OF COMPLETION OF FINAL GRADING. SEED MIXTURE SHALL BE APPLIED IN ACCORDANCE WITH THESE PLANS AND/OR THE RECOMMENDATIONS OF THE LOCAL SOIL & WATER CONSERVATION DISTRICT.

THE OPTIMUM TIME FOR PERMANENT SEEDING IS IN THE SPRING FROM MARCH 21 THROUGH MAY 20, AND IN LATE SUMMER AND EARLY FALL FROM AUGUST 25 TO OCTOBER 15. PERMANENT SEEDINGS MAY BE MADE ANY TIME OF YEAR IF PROPERLY MULCHED AND ADEQUATE MOISTURE IS PROVIDED. BROADCASTING, DRILLING WITH CULTIPACK TYPE SEEDER OR HYDROSEEDING ARE ACCEPTABLE. COLD WEATHER SEEDING SHALL BE PERFORMED USING WINTER GERMINATING SEED SUCH AS WINTER RYE.

8. TOPSOIL/MULCHING WHERE VEGETATION WILL BE ESTABLISHED, PRESERVE AND APPLY EXISTING TOPSOIL AND FRIABLE FINE TEXTURED SUBSOILS THAT ARE STRIPPED DURING EXCAVATION. COMPLETE ROUGH GRADING AND FINAL GRADING, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED. SCARIFY ALL COMPACT, SLOW PERMEABLE, MEDIUM, AND FINE TEXTURED SUBSOIL AREAS. IN SOIL AREAS THAT ARE STEEPER THAN 5 PERCENT, SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE. REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3 INCHES IN DIAMETER AND OTHER LITTER.

TOPSOIL SHALL HAVE A MINIMUM OF 2 PERCENT AND A MAXIMUM OF 6 PERCENT (BY WEIGHT) OF FINE TEXTURED STABLE ORGANIC MATERIAL. TOPSOIL SHALL HAVE NOT LESS THAN 20 PERCENT FINE TEXTURED MATERIAL (PASSING THE NO. 200 SIEVE) AND NOT MORE THAN 15 PERCENT CLAY. TOPSOIL SHALL BE RELATIVELY FREE OF STONES OVER 1 1/2 INCHES IN DIAMETER.

TOPSOIL SHALL BE PLACED AT A UNIFORM DEPTH OF 4 INCHES FOR THE STEEP SLOPES, 6 INCHES FOR THE LAWN AREAS AND 2" FOR UNMOWED GRASS AREAS, TOPSOIL SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY, NOR ON FROZEN SLOPES OR OVER ICE, SNOW OR STANDING WATER. TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5 PERCENT SHALL BE PROMPTLY FERTILIZED, SEEDED, MULCHED AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.

IF SOIL IS COMPACTED OR CRUSTED, SURFACE SHOULD BE LOOSENED TO AT LEAST TWO INCHES BY DISKING OR OTHER SUITABLE METHODS.

9. INSPECTION OF EROSION AND SEDIMENT CONTROL MEASURES THE OWNER OR QUALIFIED REPRESENTATIVE OF THE OWNER SHALL INSPECT THE EROSION AND SEDIMENT CONTROL MEASURES AT LEAST ONCE EVERY 7 CALENDAR DAYS AT A MINIMUM, THESE MEASURES INCLUDE THE DISTURBED AREAS OF THE CONSTRUCTION SITE, THE AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO STRUCTURAL CONTROL MEASURES AND THE LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE. WHERE PORTIONS OF THE CONSTRUCTION AREA HAVE BEEN FINALLY STABILIZED, INSPECTION OF SUCH PORTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH UNTIL THE ENTIRE SITE IS FINALLY STABILIZED.

THE TERM "FINALLY STABILIZED" MEANS THAT ALL THE SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND THAT A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70 % FOR THE AREA HAS BEEN ESTABLISHED OR EQUIVALENT STABILIZATION MEASURES (SUCH AS THE USE OF MULCHES OR GEOTEXTILES) HAVE BEEN EMPLOYED.

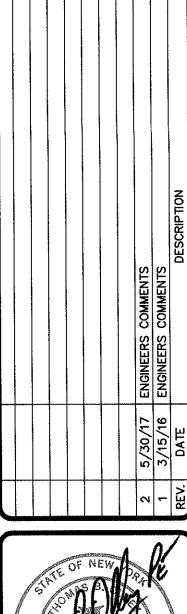
10. MAINTENANCE REQUIREMENTS AND SCHEDULES EROSION AND SEDIMENT CONTROL MEASURES ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.

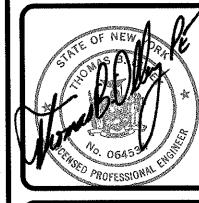
SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES APPROXIMATELY 6 INCHES DEEP AT THE FENCE. ENSURE THAT NO CONCENTRATED FLOWS ARE DIRECTED TOWARDS THE FENCE. REPLACE THE SILT FENCE WHEN "BULGES" DEVELOP

ALL SEEDED AREAS SHALL BE FERTILIZED, RE-SEEDED AS NECESSARY AND MULCHED TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

SEDIMENT SPILLED, DROPPED OR WASHED ONTO EXISTING MACADAM ROADWAYS MUST BE MOVED IMMEDIATELY. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING THE STORM DRAINS. ADDITIONAL AGGREGATE SHALL BE ADDED TO THE STABILIZED CONSTRUCTION ENTRANCES AS REQUIRED.

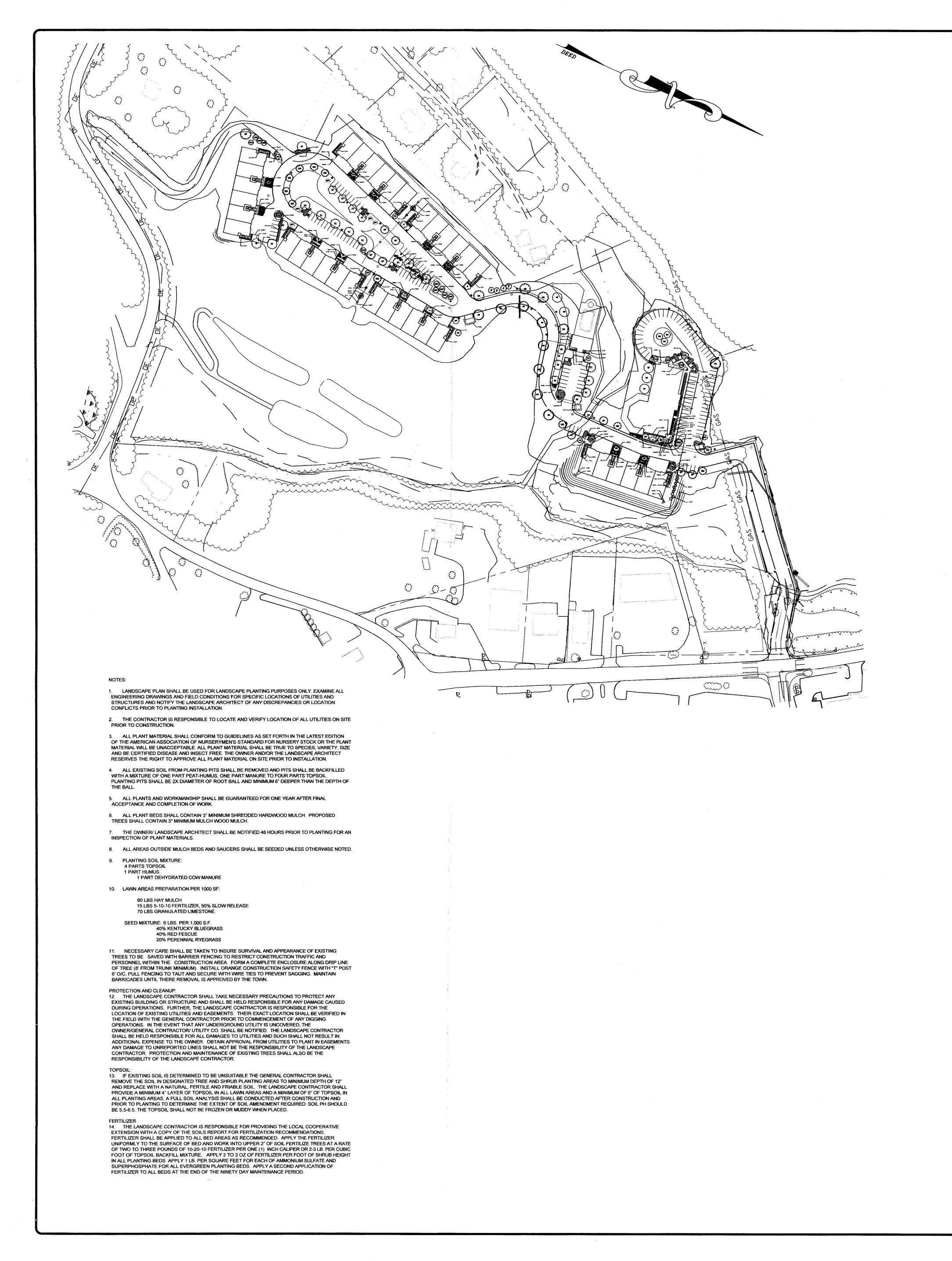
MAINTAIN DUST CONTROL MEASURES THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS ARE STABILIZED.



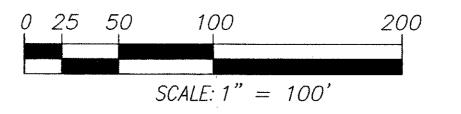


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TREES	QTY	COMMON NAME / BOTANICAL NAME	CONT	CAL	SIZE	
AR	9	Red Maple / Acer rubrum	B≰B	2-1/2 -3" cal		
GM	14	October Glory Maple / Acer rubrum `October Glory	2-1/2 -3" cal		ļ	<u> </u>
AS	4	Sugar Maple / Acer saccharum	12 - 15` HT	2-1/2 -3" cal		ļ
AC BN	6	Canadian Serviceberry / Amelanchier canadensis River Birch / Betula nigra	B ¢ B	2 1/2" CAL	a) tr	-
WFT	5	White Fringetree / Chionanthus virginicus	B # B	2"Cal	8` HT	<u> </u>
K	3	Kousa Dogwood / Comus kousa	2" CAL	<u> </u>		
G	6	Princeton Sentry Ginkgo / Ginkgo biloba `Princeton Sentry`	10-12" HT		-	<u> </u>
ĞT	9	Sunburst Honey Locust / Gleditsia triacanthos `Sunburst`	2-1/2 -3" cal	<u> </u>	<u> </u>	-
JB	2	Blue Point Juniper / Juniperus chinensis `Blue Point`	<u> </u>	 		╀
LS	<u> </u>		5 - 6` HT		ļ	<u> </u>
CCA	4	Sweet Gum / Liquidambar styraciflua	B ≉ B	2 1/2" CAL	ļ	<u> </u>
<u> </u>	8	Centurion Crab Apple / Malus x `Centzam` TM	2"-21/2" CAL	-		-
PA	4	Norway Spruce / Picea abies	В≰В		10 ht	1
5SP	5	Serbian Spruce / Picea omorika	B≰B		9-10' ht	
CBS	3	Blue Spruce / Picea pungens `Colorado spruce	6-7` HT			<u> </u>
PR	8	Canada Red Chokecherry / Prunus virginiana Canada Red	B # B	2"Cal		
QP	9	Pin Oak / Quercus palustris	2-1/2 -3" cal			
QR	5	Red Oak / Quercus rubra	2-1/2 -3" cal		·	
5R	5	Japanese Tree Lilac / Syringa reticulata	2"-21/2" CAL			
TC	8	Greenspire Littleleaf Linden / Tilia cordata `Greenspire`	2-1/2 -3" cal			
ZS	6	Sawleaf Zelkova / Zelkova serrata `Green Vase`	2-1/2 -3" cal			
	***************************************			···		- <u>L</u>
SHRUBS	QTY	COMMON NAME / BOTANICAL NAME	CONT			T
AK	8 .	Kurume Azalea / Azalea Kurume Hybrid `Coral Bells`	24" HT 3 GAL			╁
ВМ	78	Winter Gem Boxwood / Buxus microphylla japonica `Winter Gem`	5 gal			╁
СР	31	Golden Mopps Sawara False Cypress / Chamaecypans pisifera `Golden Mopps`	24" HT 3 GAL	-	1	-
CV	11	Ivory Halo Dogwood / Cornus alba `Bailhalo` TM	18-24" HT	<u> </u>	-	+-
RTD	9	Red Twig Dogwood / Cornus sencea	3 gal		1	-
C5	12	Arctic Fire Dogwood / Cornus stolonifera `Arctic Fire`	5 gal	<u> </u>	<u> </u>	-
CE	33	Eichholz Cotoneaster / Cotoneaster dammer: `Eichholz`	5 gal			
ENK	6	Red-Verned Enklanthus / Enklanthus campanulatus	5 gal	<u> </u>	 	-
EK	22	Manhattan Euonymus / Euonymus kautschovicus `Manhattan`	<u>.l. </u>	<u> </u>	<u> </u>	-
	<u> </u>		30 - 36" 5 GAL		<u> </u>	
GF EC	10	Lynwood Gold Forsythia / Forsythia x intermedia `Lynwood Gold`	15` 18" HT		<u> </u>	
FG	5	Dwarf Fothergilla / Fothergilla gardenii	3 gal			
HV	3	Common Witch Hazel / Hamamelis virginiana	3 gal			
НМ	6	All Summer Beauty Bigleaf Hydrangea / Hydrangea macrophylla `All Summer Beauty`	5 gal			
HQ	10	Oakleaf Hydrangea / Hydrangea quercifolia	30 - 36" 5 GAL			
IC2	8	Dwarf Japanese Holly / Ilex crenata `Compacta`	3 gal			
IG2	6	Compact inkberry / liex glabra `Compacta`	3 gal		<u> </u>	1
IV	3	Winterberry / Ilex verticillata	5- 6` HT			T
IX3	10	Blue Princess Holly / Ilex x meserveae `Blue Princess` TM	36-42" ht B¢B			†-
IX	2	Blue Prince Holly / Ilex x meserveae `Blue Prince` TM	36-42" HT	<u> </u>	1	·
IV6	4	Henry's Garnet Sweetspire / Itea virginica 'Henry's Garnet'	3 gal		 	+
JM	14.	Mint Julep Juniper / Juniperus chinensis `Mint Julep`	5 gal			╁
J5	39	Broadmoor Juniper / Juniperus sabina `Broadmoor`	3 gai			-
KL	6	Mountain Laurel / Kalmia latifolia	5 gal			-
KJP	21	Double flowered Japanese Kerria / Kerria japonica Pleniflora	3 gal		 	-
MC	14	Compact Oregon Grape / Mahonia aquifolium `Compacta`	3 gal	ļ :	-	╄-
MO	7	Mock Orange / Philadelphus x virginalis				-
	L	<u> </u>	3-4` HT		_	
PO	25	Center Glow Ninebark / Physocarpus opulifolius `Center Glow`	30 - 36" 5 GAL			_
NZ	9	Rhododendron / Rhododendron x `Nova Zembla`	5 gal			
RX3	25	Rose RED & PINK / Rosa x `Double Knockout`	3 gal			
SXG	8	Goldflame Spirea / Spiraea x bumalda `Goldflame`	5 gal			<u> </u>
SX2	10	Spirea / Spiraea x bumalda `Magic Carpet`	3 gal			
SYR	35	Little Kim Lilac / Syringa x `Little Kim`	24-30" HT			
TX2	10	Dense Yew / Taxus x media `Densiformis`	5 gal			Τ
TX	!	Hicks Yew / Taxus x media `Hicksii`	30 - 36" 5 GAL			T
π	76	Tauton Yew / Taxus x media `Tauntonii`	5 gal			T
VC	3	Korean Spice Viburnum / Viburnum carlesii	36-42" ht B\$B			╁
VR	6	Leatherleaf Viburnum / Viburnum rhytidophyllum `Alleghany`	5 gal			╁┈
	t					ــــــــــــــــــــــــــــــــــــــ
	QTY	COMMON NAME / BOTANICAL NAME	CONT			Τ
PERENNIA LS			:			
ECP	26	Purple Coneflower / Echinacea purpurea	5 gal			†
CB-S	31	Coral Bells / Heuchera sanguinea	4"pot			†
CORB	10	Coral Bells / Heuchera sanguinea `Palace Purple`	4"pot	 		+
SAV	94	May Night Sage / Salvia nemorosa `May Night`	i gal	 		-
SED	37	Autumn Joy Sedum / Sedum x `Autumn Joy`	l gal		 	+
<u> </u>	<u> </u>	<u> </u>	1		.L	1
GRASSES	QTY	COMMON NAME / BOTANICAL NAME	CONT		1	Τ
DFG	54	Dwarf Fountain Grass / Panicum virgatum `Hamelin`	l gal			+
LBG	17	Little Bunny Fountain Grass / Pennisetum alopecuroides `Little Bunny`	l gal			
55	7	Little Bluestem Grass / Schizachyrium scopanium	l gal			+-
 	1	L	1	1	<u> </u>	
SHRUB	QTY	COMMON NAME / BOTANICAL NAME	CONT :	1	T	SP
AREAS						
	129	JCS Sargent Juniper / Juniperus chinensis sargentii	2 gal			36
	100	Luiz Ring Royal American		_		<u> </u>
1	60	JHW - Blue Rug Juniper / Juniperus horizontalis `Wiltonii`	2 gal			30
	1114	DPI Durat Program and Insurance I have an I have a large and the large a	2 -1 -1			1
	114	DPJ - Dwarf Procumbent Juniper / Juniperus procumbens	2 gal			36
	26	PGS - Gold Star Potentilla / Potentilla fruticosa `Gold Star`				40
1	- U	. CO COM CVAL OSCITUINA / I OSCITUINA II DUCCOSA GOLG CHAT	gal			40
 	26	ROSB Rose / Rosa x `Flower Carpet Pink`	2 gal		<u> </u>	36
_	1	1	- 201			100
1	12	RXR - Red Carpet Rose / Rosa x `Flower Carpet RED	2 ajal (42
		·	1 4			
	 	COMMON NAME / BOTANICAL NAME	CONT	 	1	SP
GROUND	QTY	I	<u> </u>	ļ	1	24
GROUND COVERS		A - Minstead Frailish Lavender / Lavandida anauchtfolia "Minstead"	ادم ا		_	- 12
	QTY 10	LA - Munstead English Lavender / Lavandula angustifolia `Munstead`	I gal			2.7
		LA - Munstead English Lavender / Lavandula angustifolia `Munstead` LST - Creeping Lily Turf / Linope spicata	I gal 4"pot			24
	10					



SCAPE ARCHITECT
15 ROUTE 211 WEST
1010 DIETOWN, NY 10940
(845) 551-1223

PRELIMINARY OVER LANDSCAPE PLAN

SHEET NO.

E: 6/15/2016

