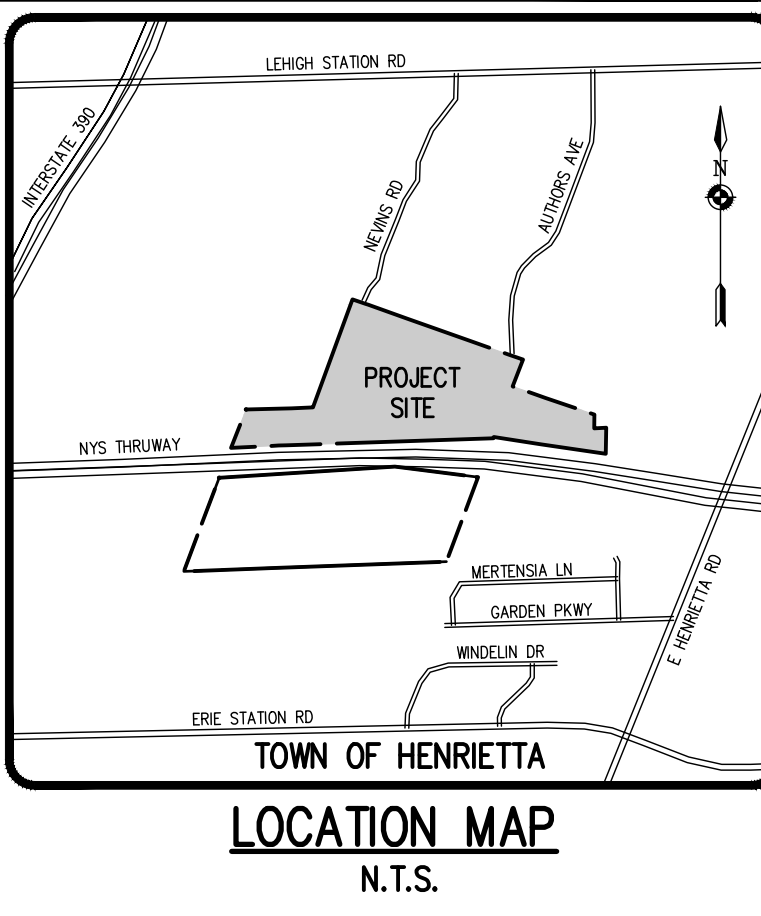


P:\1728 (Lehigh)\1728 - Cover Sheet.dwg



# LEHIGH RIDGE

TOWN OF HENRIETTA, MONROE COUNTY, NEW YORK

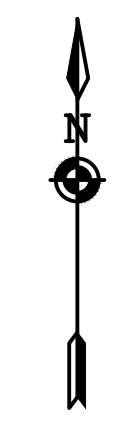
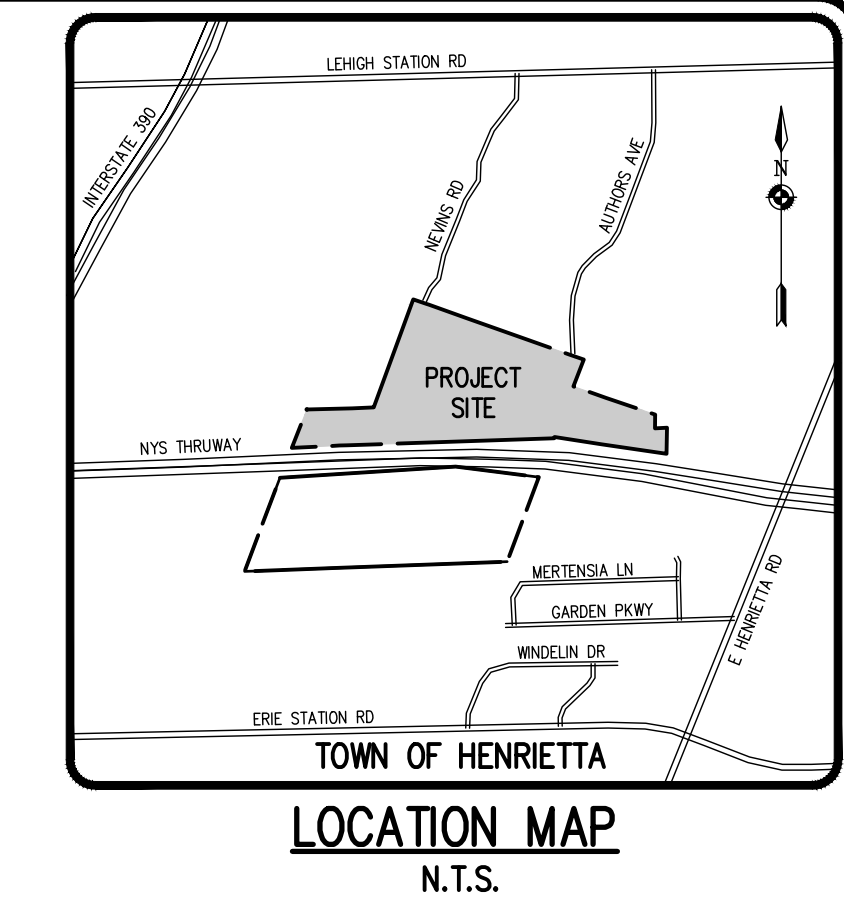
PREPARED FOR:  
**LEHRWOOD ESTATES, LLC**  
1112 EAST RIVER ROAD  
AVON, NEW YORK 14414

## OVERALL PRELIMINARY SUBDIVISION PLANS LEHIGH RIDGE

DWG. No.	TITLE	DWG. No.	TITLE
2728-10	COVER SHEET	2728-19	PROFILE SHEET 01
2728-11	SUBDIVISION PLAT 01	2728-20	PROFILE SHEET 02
2728-12	SUBDIVISION PLAT 02	2728-21	PROFILE SHEET 03
2728-13	EXISTING CONDITIONS PLAN 01	2728-22	DETAIL SHEET 01
2728-14	EXISTING CONDITIONS PLAN 02	2728-23	DETAIL SHEET 02
2728-15	UTILITY PLAN 01	2728-24	DETAIL SHEET 03
2728-16	UTILITY PLAN 02		
2728-17	GRADING PLAN 01		
2728-18	GRADING PLAN 02		

SCALE: 1"=100'  
DRAWING NUMBER: 2728\_10  
DATED: AUGUST 18, 2021  
REVISED: MAY 2, 2022





Drawn by: [Name]  
 Checked by: [Name]  
 Date: [Date]

NO.	REVISIONS	DATE	BY
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**BME ASSOCIATES**  
 ENGINEERS • SURVEYORS • LANDSCAPE ARCHITECTS  
 11111 BIRCHMERE EAST  
 SUITE 200  
 WEST HENRIETTA, NY 14553  
 PHONE: 518-377-3380  
 FAX: 518-377-3389  
 WWW.BMEASSOCIATES.COM

**SUBDIVISION NOTES**

- TOTAL PROJECT AREA: 268.48 ACRES  
 T.A. No. 175.04-1-20: 3.83 ACRES  
 T.A. No. 175.20-1-84: 14.95 ACRES  
 T.A. No. 175.20-1-85: 20.53 ACRES  
 T.A. No. 175.20-1-86: 19.83 ACRES  
 T.A. No. 176.17-1-23.12: 5.42 ACRES  
 T.A. No. 176.17-1-23.12: 1.20 ACRES  
 T.A. No. 176.17-1-22.2: 3.60 ACRES
- EXISTING ZONING: RESIDENTIAL R-1-15
- PROPOSED ZONING: RESIDENTIAL R-1-15
- THE PROJECT IS PROPOSED TO BE DEVELOPED AS CLUSTER SUBDIVISION PURSUANT TO TOWN LAW SECTION 278 AND SECTION 245-B OF THE TOWN CODE.
- PROPOSED USE: 110 SINGLE FAMILY RESIDENTIAL LOTS ON 68.48 AC INCLUDING 234.83 ACRES OPEN SPACE.
- LOT AND DEVELOPMENT STANDARDS:  

REQUIRED (R-1-15)	PROPOSED (CLUSTER SUBDIVISION)
MIN. LOT AREA	15,000 S.F.
MIN. LOT WIDTH	80 FT
MIN. LOT DEPTH	N/A

**LEHIGH RIDGE**  
 TOWN OF HENRIETTA, MONROE COUNTY, NEW YORK STATE  
 PROJECT SURVEYOR  
 PROJECT MANAGER  
 F. VARES  
 PROJECT SUPERVISOR  
 M. PALMER  
 DRAWN BY  
 M. PALMER  
 DATE ISSUED  
 11-AUG-2021  
 PROJECT NO.  
 2728  
 DRAWING NO.  
 11  
 (SHEET 1 OF 2)

**NOT APPROVED**  
 This plan has not received final approval of all reviewing agencies. This plan is subject to revision until all approvals are obtained and should not be used for construction purposes.

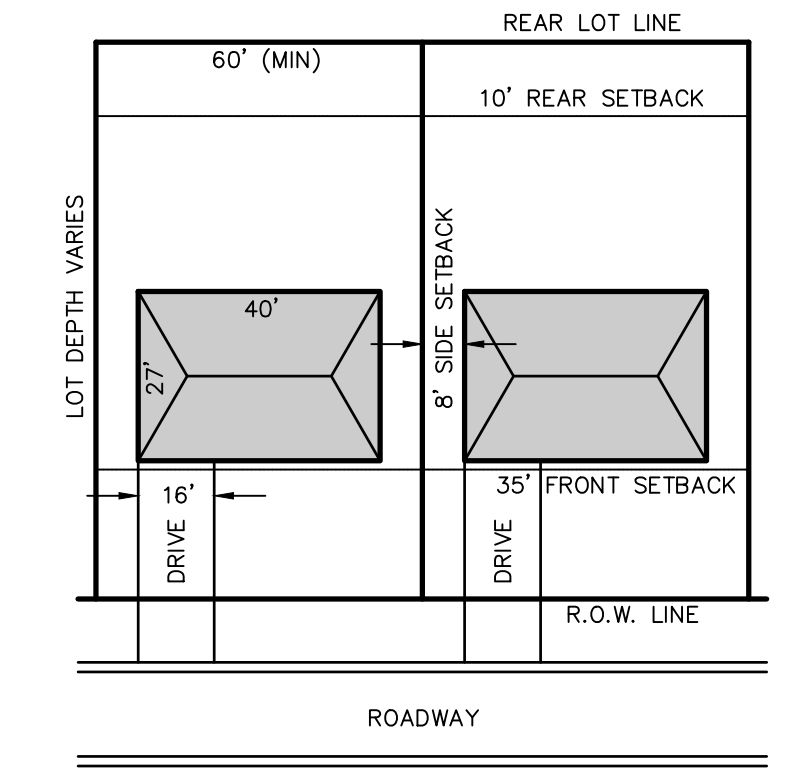
**GRAPHIC SCALE**  
 0 25 50 100  
 ( IN FEET )  
 1 inch = 50 ft.



- REFERENCES**
- A PLAN ENTITLED "BOUNDARY SURVEY MAP SHOWING LANDS TO BE CONVEYED BY MICHAEL C. DEMARINS, DENORAH VANDERBROOK & SANDRA HAYES" PREPARED BY GREGORY D. BLY, DATED NOVEMBER 11, 1996.
  - A PLAN ENTITLED "PORTION OF LANDS OF BENEVOLENT & PROTECTIVE ORDER OF THE ELKS" PREPARED BY CORNWALL CONSULTANTS PC, DATED NOVEMBER 1994.
  - A PLAN ENTITLED "GARDEN PARKWAY ESTATES, RE-SUBDIVISION MAP" FILED IN THE MONROE COUNTY CLERK'S OFFICE AT LIBER 224 OF MAPS, PAGE 36.
  - PLAN ENTITLED "WOODFORD ON THE GREEN SUBDIVISION" FILED IN THE MONROE COUNTY CLERK'S OFFICE AT LIBER 171 OF MAPS, PAGES 5-4, LIBER 170 OF MAPS, PAGES 6-4, & LIBER 170 OF MAPS, PAGE 7.
  - THE FOLLOWING NEW YORK STATE APPROPRIATION MAPS:  
 5.1. MAP 738 PARCEL 742  
 5.2. MAP 740 PARCEL 743  
 5.3. MAP 741 PARCEL 744
  - ABSTRACT OF TITLE PREPARED BY STEWART TITLE INSURANCE COMPANY, HAVING ORDER NUMBER 8119293, DATED SEPTEMBER 22, 2020.
- SURVEY NOTES**
- T.A. No. 175.20-1-86 BENEFITED BY A 40' WIDE ACCESS EASEMENT PER LIBER 8565 OF DEEDS, PAGE 204.
  - PARCEL SUBJECT TO AN EASEMENT RESTRICTING COMMERCIAL SIGNS, BILLBOARDS, AND OTHER ADVERTISING DEVICES AND DISPLAYS PER REF. 5.
  - PARCEL SUBJECT TO A GASMAIN EASEMENT TO ROCHESTER GAS AND ELECTRIC CORPORATION PER LIBER 2964 OF DEEDS, PAGE 273 & LIBER 2967 OF DEEDS, PAGE 306.
  - PARCEL SUBJECT TO A MAINTENANCE AGREEMENT PER LIBER 9786 OF DEEDS, PAGE 549.
  - THE HORIZONTAL DATUM SHOWN HEREON IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM OF 1983, WESTERN ZONE, NAD 83.

WE, BME ASSOCIATES, CERTIFY THAT THIS MAP WAS PREPARED FROM THE NOTES OF AN INSTRUMENT SURVEY COMPLETED BY US ON DECEMBER 1, 2020 AND FROM THE REFERENCES NOTED HEREON. THIS MAP OR PLAT AND THE SURVEY UPON WHICH IT WAS BASED MEETS THE ONSA 2017 MINIMUM STANDARDS FOR A SURVEY MAP.  
 THIS MAP IS SUBJECT TO ANY FACTS THAT MAY BE REVEALED BY SOURCES OTHER THAN THOSE REFERENCED HEREON.

BY: MATTHEW R. PALMER, NYSPLS NO. 050694



**LEGEND**

—	BOUNDARY LINE
- - -	PROPOSED LOT LINE
—	CENTRAL LINE
- - -	SETBACK LINE
- - -	EXISTING EASEMENT LINE
- - -	PROPOSED EASEMENT LINE
- - -	PERMITS OF WATER BODY
○	WETLAND LIMITS
■	PROPERTY MARKER FOUND
■	PROPOSED SURVEY MONUMENT

**REVISIONS**

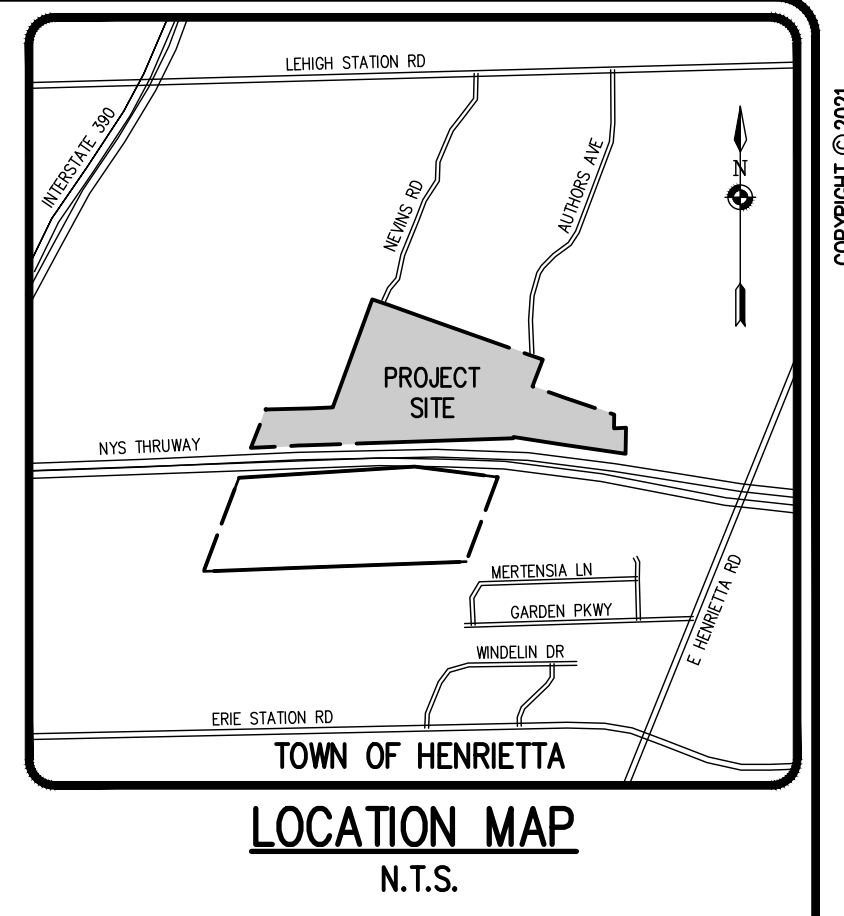
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MATCHLINE (SEE SUBDIVISION PLAT SHEET 2 OF 2)

MATCHLINE (SEE ABOVE)

MATCHLINE (SEE SUBDIVISION PLAT SHEET 2 OF 2)

SHEETS & CORNERS PURCHASE: TOWNSHIP 42, RANGE 7, TOWN LOT 3, TAX MAP NUMBER: 133.04-1-20, 175.20-1-84, 175.20-1-85, 175.20-1-86, 175.20-1-87, 176.17-1-23.12, 176.17-1-23.22



- REFERENCES**
1. A PLAN ENTITLED "BOUNDARY SURVEY MAP SHOWING LANDS TO BE CONVEYED BY MICHAEL G. DEMARTINI, DENORAH VANDERBROOK & SANDRA HAYES" PREPARED BY GREGORY D. BLY, DATED NOVEMBER 11, 1996.
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  3. A PLAN ENTITLED "GARDEN PARKWAY ESTATES, RE-SUBDIVISION MAP" FILED IN THE MONROE COUNTY CLERK'S OFFICE AT LIBER 224 OF MAPS, PAGE 36.
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  5. THE FOLLOWING NEW YORK STATE APPROPRIATION MAPS:
    - 5.1. MAP 738 PARCEL 743
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    - 5.3. MAP 741 PARCEL 744
  6. ABSTRACT OF TITLE PREPARED BY STEWART TITLE INSURANCE COMPANY, HAVING ORDER NUMBER 81119293, DATED SEPTEMBER 22, 2020.

- SURVEY NOTES**
1. T.A. No. 175.20-1-86 BENEFITED BY A 40' WIDE ACCESS EASEMENT PER LIBER 865 OF DEEDS, PAGE 284.
  2. PARCEL SUBJECT TO AN EASEMENT RESTRICTING COMMERCIAL SIGNS, BILLBOARDS, AND OTHER ADVERTISING DEVICES AND DISPLAYS PER REF. 5.
  3. PARCEL SUBJECT TO A GASMAIN EASEMENT TO ROCHESTER GAS AND ELECTRIC CORPORATION PER LIBER 2964 OF DEEDS, PAGE 273 & LIBER 2967 OF DEEDS, PAGE 306.
  4. PARCEL SUBJECT TO A MAINTENANCE AGREEMENT PER LIBER 9786 OF DEEDS, PAGE 549.
  5. THE HORIZONTAL DATUM SHOWN HEREON IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM OF 1983, WESTERN ZONE, NAD 83.

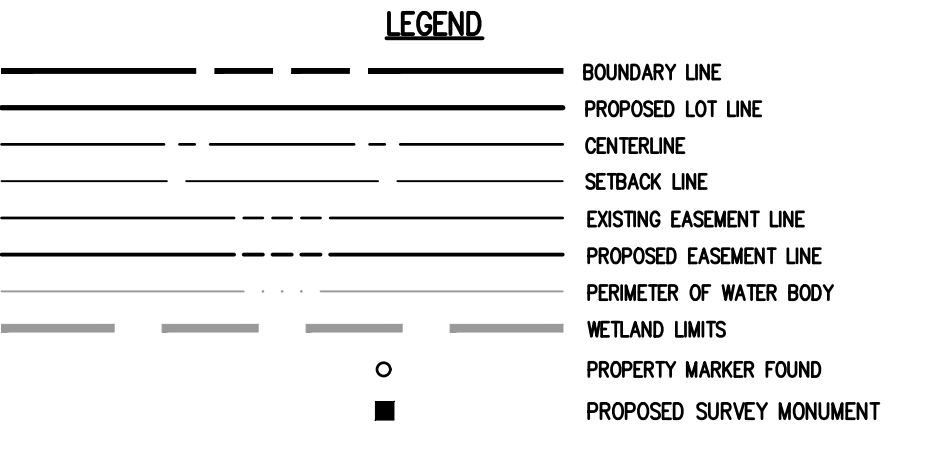
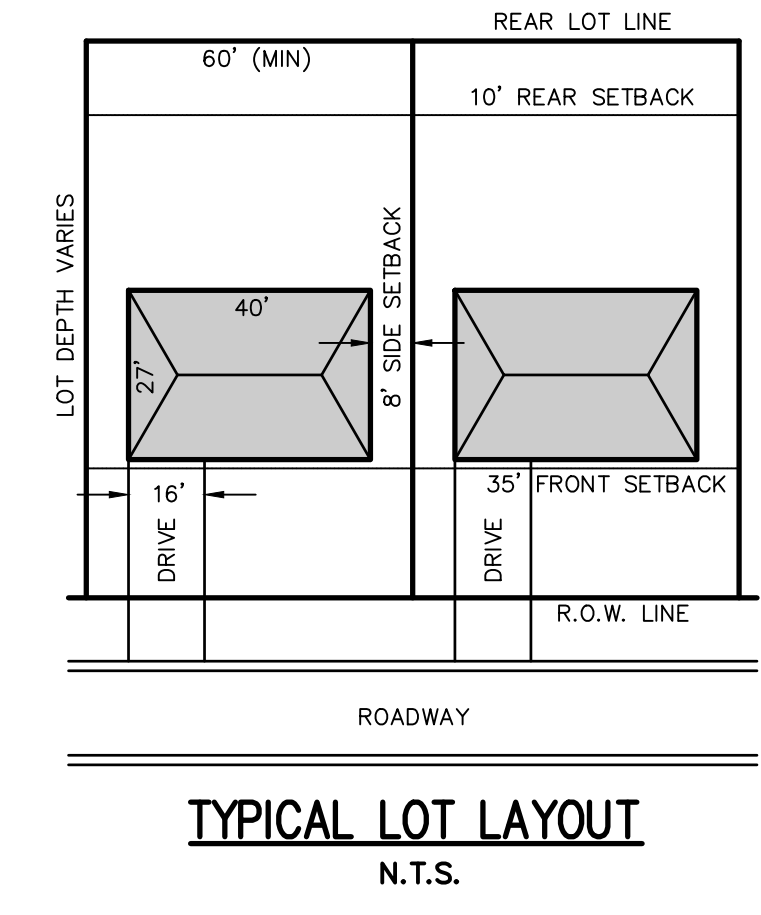
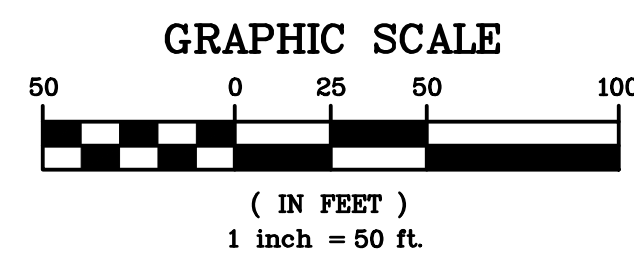
WE, BME ASSOCIATES, CERTIFY THAT THIS MAP WAS PREPARED FROM THE NOTES OF AN INSTRUMENT SURVEY COMPLETED BY US ON DECEMBER 1, 2020 AND FROM THE REFERENCES NOTED HEREON. THIS MAP OR PLAN AND THE SURVEY UPON WHICH IT WAS BASED MEETS THE OLSA 2017 MINIMUM STANDARDS FOR A SURVEY MAP.

THIS MAP IS SUBJECT TO ANY FACTS THAT MAY BE REVEALED BY SOURCES OTHER THAN THOSE REFERENCED HEREON.

BY: MATTHEW R. PALMER, NYSLS No. 050664

**NOT APPROVED**

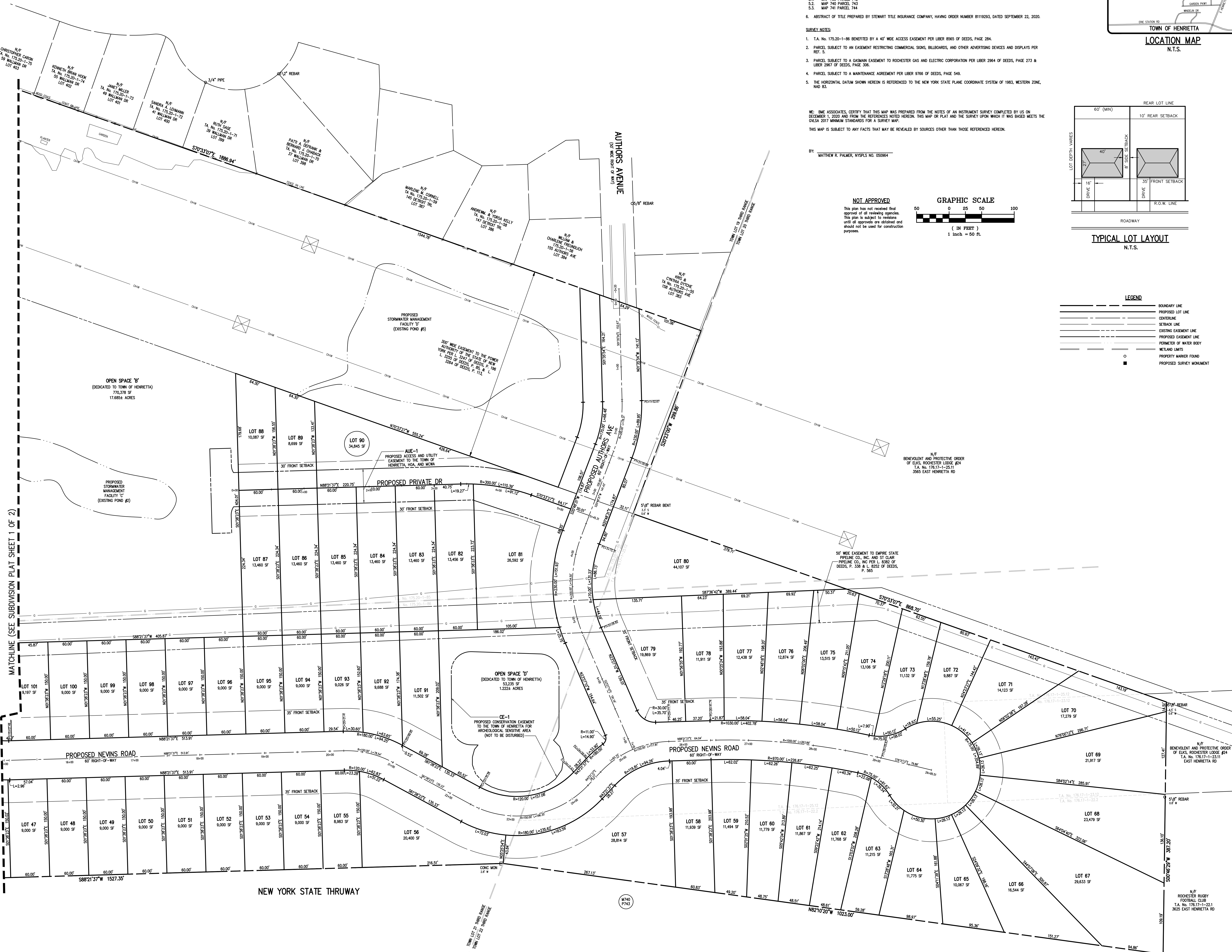
This plan has not received final approval of all reviewing agencies. This plan is subject to revisions until all approvals are obtained and should not be used for construction purposes.



**Disclaimer**

The drawing is an exact copy of the New York State Standard Law Article 143 Section 7209 and applies to this drawing.

It is a violation of this law for any person, other than the person who prepared the drawing, to alter or to cause to be altered, the drawing or to use the drawing for any purpose other than that for which it was prepared, unless the alteration is approved by the person who prepared the drawing or by the person who approved the drawing, and a specific description of the alteration.



MATCHLINE (SEE SUBDIVISION PLAT SHEET 1 OF 2)

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**BME ASSOCIATES**

ENGINEERS • SURVEYORS • LANDSCAPE ARCHITECTS

11411 BERGHEIM AVE. SUITE 100  
HENRIETTA, NY 14456  
PHONE: 585-377-3980  
FAX: 585-377-3289  
WWW.BME-NY.COM

**LEHIGH RIDGE**

TOWN OF HENRIETTA, MONROE COUNTY, NEW YORK STATE

PROJECT: FOOTBALL CLUB  
CLIENT: FOOTBALL CLUB  
PROJECT MANAGER: M. PALMER  
PROJECT SURVEYOR: M. PALMER  
DRAWN BY: M. PALMER

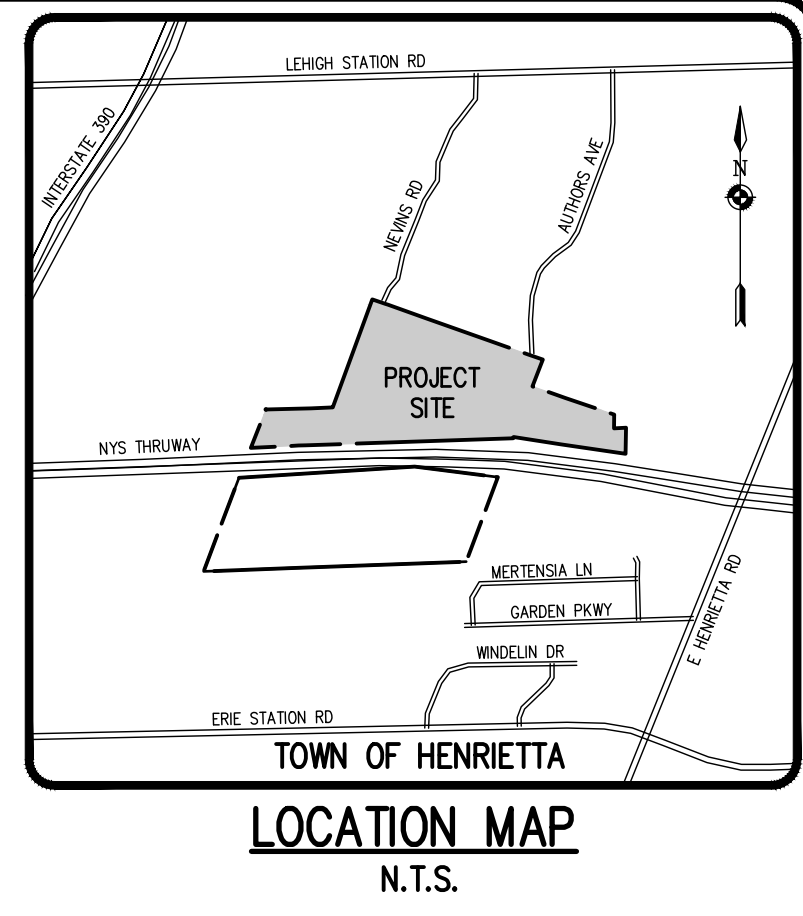
**SUBDIVISION PLAT**

OVERALL PRELIMINARY

PROJECT NO. 2728

DATE ISSUED: AUGUST 2021

DRAWING NO. 12 (SHEET 2 OF 2)

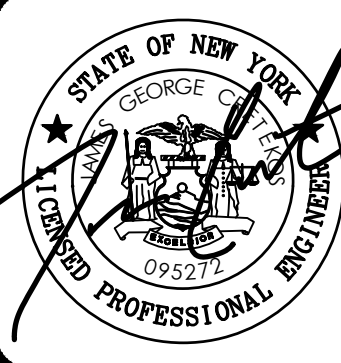


Drawn by: J. Chetko  
 The drawing is an extract from the New York State Electrical Law Article 145 Section 7209 and applies to this drawing.  
 It is a violation of this law for any person, unless he is acting under the supervision of a duly licensed professional engineer or land surveyor to alter or change in any way or in part, the work of an engineer or land surveyor in a drawing, the alteration of which would be a violation of this law. The person who alters the drawing shall be held liable for the alteration. The person who alters the drawing shall be held liable for the alteration, and a specific description of the alteration.

NO.	REVISIONS	DATE	BY
1	REVISED PER TOWN AND AGENCY COMMENTS	4/17/22	RPB
2	REVISED PER CLIENT INPUT	5/7/22	RPB
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2	REVISED PER CLIENT INPUT	5/7/22	RPB
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**BME ASSOCIATES**  
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 WESTFIELD, NY 12145  
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 FAX: 518-377-3289  
 WWW.BMEASSOCIATES.COM



**LEHIGH RIDGE**  
 TOWN OF HENRIETTA, MONROE COUNTY, NEW YORK STATE  
 11111 BURGESS LANE EAST  
 SUITE 200  
 WESTFIELD, NY 12145  
 PHONE: 518-377-3980  
 FAX: 518-377-3289  
 WWW.BMEASSOCIATES.COM

**EXISTING CONDITIONS PLAN**  
 PROJECT: LEHIGH RIDGE  
 LOCATION: TOWN OF HENRIETTA, MONROE COUNTY, NEW YORK STATE  
 CLIENT: LEHIGH RIDGE  
 PROJECT ENGINEER: J. CHETKO  
 PROJECT MANAGER: J. CHETKO  
 DRAWN BY: A. BEYER  
 SCALE: 1"=50'  
 DATE ISSUED: AUGUST 2021  
 PROJECT NO.: 2728  
 DRAWING NO.: 13  
 (SHEET 1 OF 2)

**LEGEND**

[Symbol]	BOUNDARY LINE
[Symbol]	OWNER LINE
[Symbol]	EXISTING EASEMENT LINE
[Symbol]	PROPERTY MARKER FOUND
[Symbol]	CONCRETE HIGHWAY MONUMENT FOUND
[Symbol]	EX. WATERMAN, HYDRANT AND VALVE
[Symbol]	EXISTING STORM SEWER, AND MANHOLE
[Symbol]	EXISTING SANITARY SEWER AND MANHOLE
[Symbol]	EXISTING GASMAIN
[Symbol]	EXISTING CONTOUR
[Symbol]	EXISTING TREELINE
[Symbol]	PERMETER OF WATER BODY
[Symbol]	WETLAND LIMITS

- DEMOLITION NOTES**
- CONTRACTOR SHALL REMOVE EXISTING UTILITIES, STRUCTURES, AND APPURTENANCES AS SHOWN ON THE PLANS AND/OR AS DIRECTED. THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE OWNER, ENGINEER, AND/OR THE AGENCY HAVING JURISDICTION, PRIOR TO COMMENCING WITH ABANDONMENTS AND REMOVALS. THE CONTRACTOR SHALL REMOVE OF MATERIALS OFF-SITE IN ACCORDANCE WITH ALL CURRENT REGULATIONS AND REQUIREMENTS.
  - EXISTING UNDERGROUND UTILITIES SHOWN HEREIN WERE PLOTTED FROM FIELD LOCATIONS AND/OR AVAILABLE UTILITY COMPANY RECORD PLANS. EXISTING UTILITIES WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT AREA MAY NOT BE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL CALL THE UPPO HOTLINE AT (800)962-7962 OR 811 FOR STAKE-OUT OF EXISTING UTILITIES.
  - THE CONTRACTOR SHALL DETERMINE EXACT LOCATION AND ELEVATION OF UNDERGROUND UTILITIES BEFORE COMMENCING CONSTRUCTION. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS TO LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS AS REQUIRED TO MEET THE EXISTING CONDITIONS.
  - THE CONTRACTOR SHALL REFERENCE THE EMPIRE PIPELINE ENCROACHMENT MANUAL FOR GUIDELINES ON CONSTRUCTION ACTIVITIES WITHIN THE EMPIRE AND RISE RIGHTS-OF-WAY.
  - ALL MATERIALS TO BE REMOVED FROM THE SITE AND DISPOSED OF AS NECESSARY AT AN APPROVED LOCATION.
  - THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY CONTROL MONUMENTS.
  - CONTRACTOR TO REPLACE ANY DAMAGED SIDEWALK, CURB AND/OR GUTTER BY CONSTRUCTION ACTIVITIES.
  - WETLANDS AS SHOWN ON THE PLAN WERE FIELD DELINEATED BY BME ASSOCIATES AND APPROVED BY THE NYDEC.

**NOT APPROVED**  
 This plan has not received final approval of all reviewing agencies. This plan is subject to revisions until all approvals are obtained and should not be used for construction purposes.

**GRAPHIC SCALE**  
 0 25 50 100  
 ( IN FEET )  
 1 inch = 50 ft.

MATCHLINE (SEE EXISTING CONDITIONS PLAN SHEET 2 OF 2)

MATCHLINE (SEE ABOVE)

MATCHLINE (SEE BELOW)

NOTE:  
 EXISTING CONTOURS SHOWN WITHIN THE POND LIMITS ARE APPROXIMATE. ACTUAL POND DEPTHS WILL NEED TO BE FIELD VERIFIED.

EXISTING POND #1 TO BE DRAINED AND FILLED. (REFERENCE GRADING PLAN SHEET 1 OF 2 FOR PROPOSED GRADING.)

NOTE:  
 ALL CONSTRUCTION ACTIVITIES ARE TO REMAIN A MIN OF 25' AWAY FROM EXISTING ELECTRIC TOWERS.

EXISTING NYSP POWER AUTHORITY ELECTRIC TOWER (TYP)

EXISTING 24" GAS TRANSMISSION PIPELINE

EXISTING 24" GAS TRANSMISSION PIPELINE

EXISTING POND #5  
 WATER ELEV=198.2

EXISTING POND #4  
 WATER ELEV=204.0

TOWN OF HENRIETTA  
 T.A. NO. 17504-1-10.11  
 MIDDLE ROAD

TOWN LOT 20 (PART) RANCE  
 TOWN LOT 19 (PART) RANCE

AD. LLC  
 33.11  
 IN RD

ETA  
 1-14  
 AD

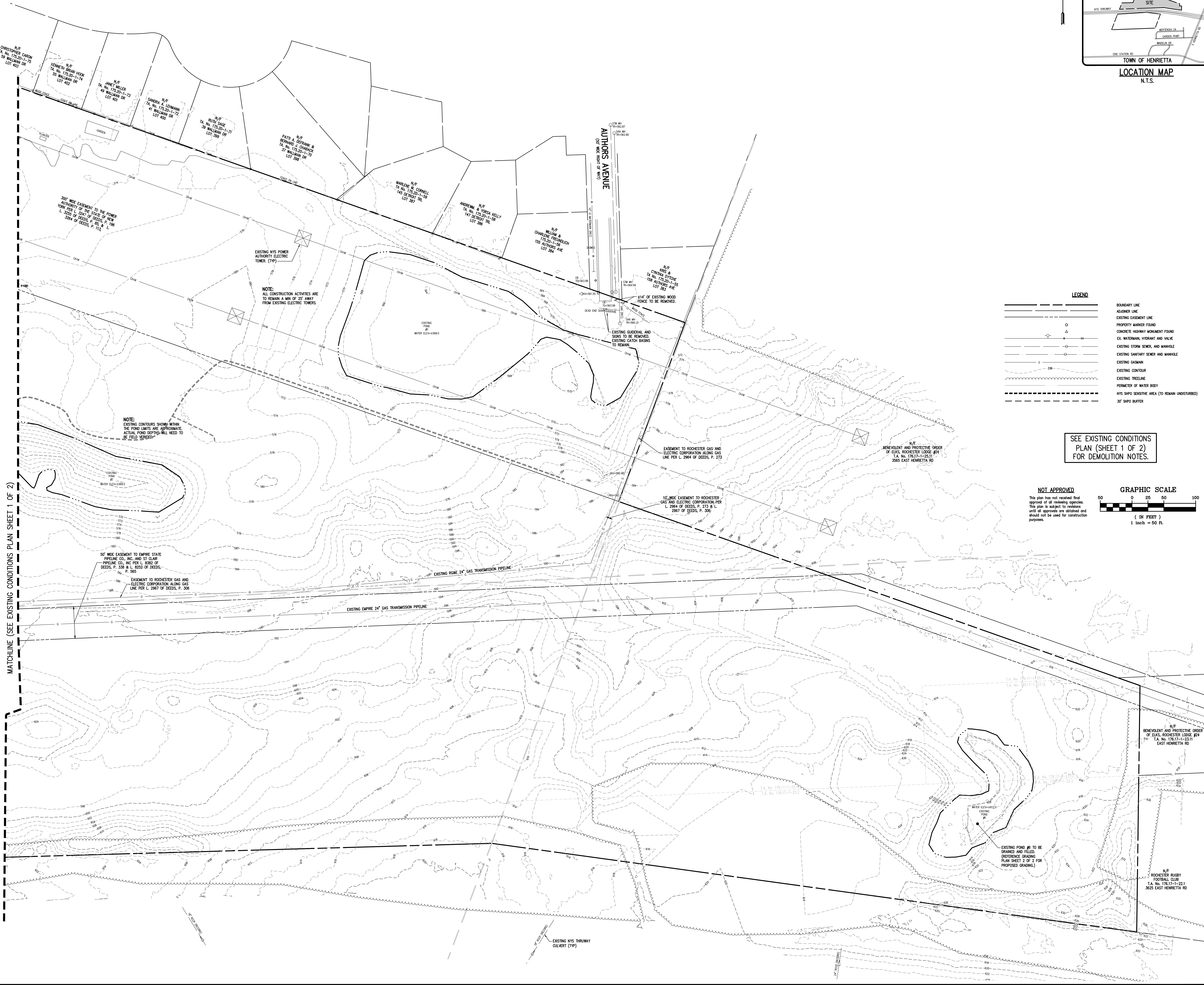
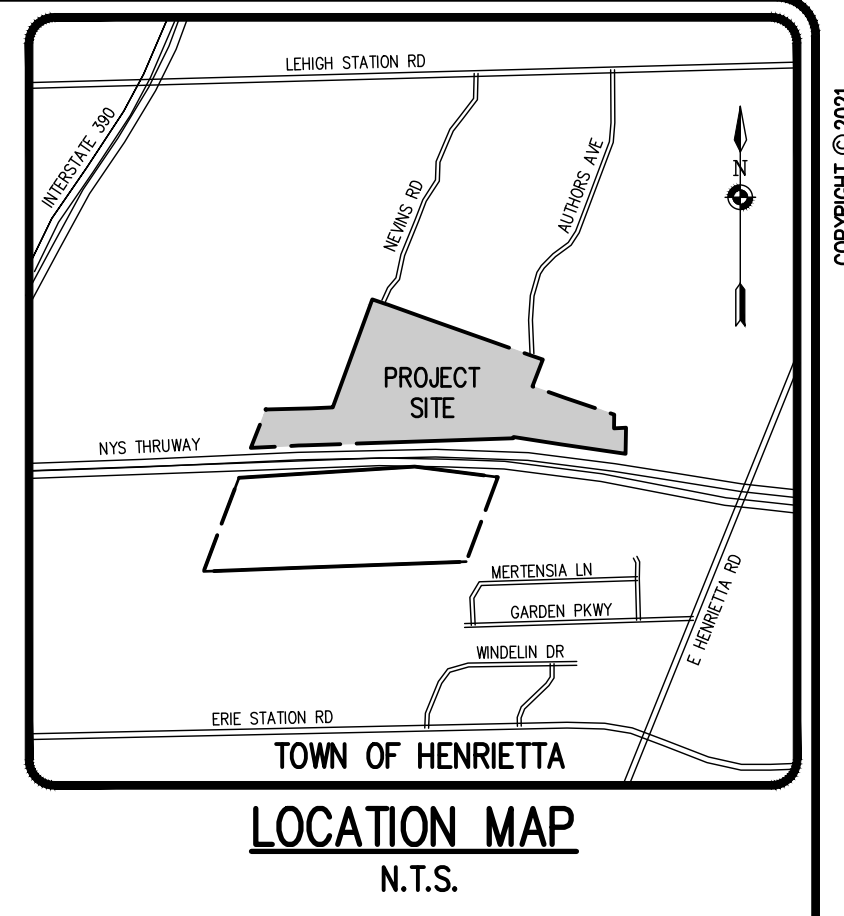
ROBERT A. SAUGERT  
 1-24-23 ADJES

7700  
 WATER ELEV=133.02

CONC MON  
 17' 4"

CONC MON  
 22' 4"

EXISTING NYSP THRUWAY CULVERT (TYP)



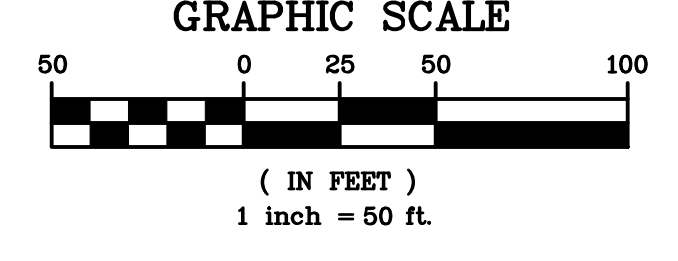
LEGEND

- BOUNDARY LINE
- ADJACENT LINE
- EXISTING EASEMENT LINE
- PROPERTY MARKER FOUND
- CONCRETE HIGHWAY MONUMENT FOUND
- EX. WATERMAN, HYDRANT AND VALVE
- EXISTING STORM SEWER AND MANHOLE
- EXISTING SANITARY SEWER AND MANHOLE
- EXISTING GASMAIN
- EXISTING CONTOUR
- EXISTING TREELINE
- PERIMETER OF WATER BODY
- NYS SHPO SENSITIVE AREA (TO REMAIN UNDISTURBED)
- 30' SHPO BUFFER

SEE EXISTING CONDITIONS PLAN (SHEET 1 OF 2) FOR DEMOLITION NOTES.

NOT APPROVED

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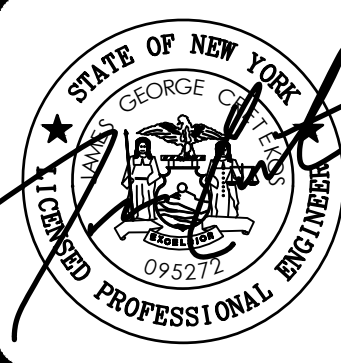
MATCHLINE (SEE EXISTING CONDITIONS PLAN SHEET 1 OF 2)

Drawn by: J. Chetkoff  
Checked by: A. Beyer  
Date: 8/17/22

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**BME ASSOCIATES**  
ENGINEERS - SURVEYORS - LANDSCAPE ARCHITECTS  
11111 BURGESS LANE EAST  
ROCHESTER, NY 14624  
WWW.BMEASSOCIATES.COM

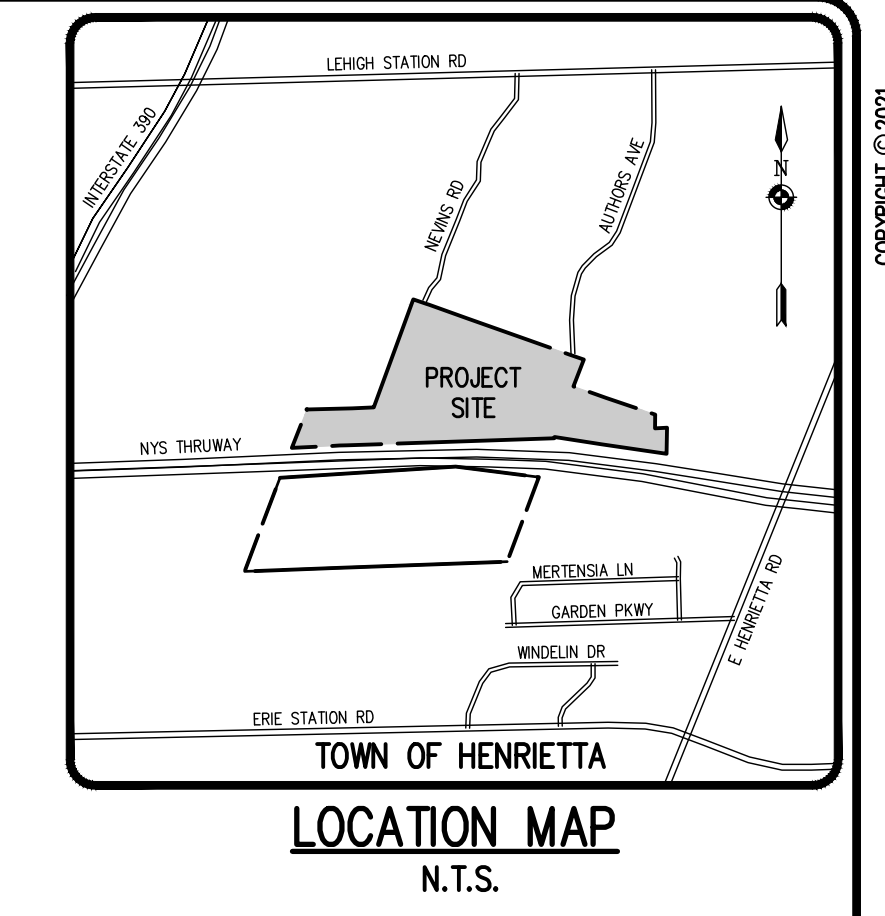


**LEHIGH RIDGE**  
TOWN OF HENRIETTA, MONROE COUNTY, NEW YORK STATE  
10000 STATE ROAD 100  
AVON, NEW YORK 14414

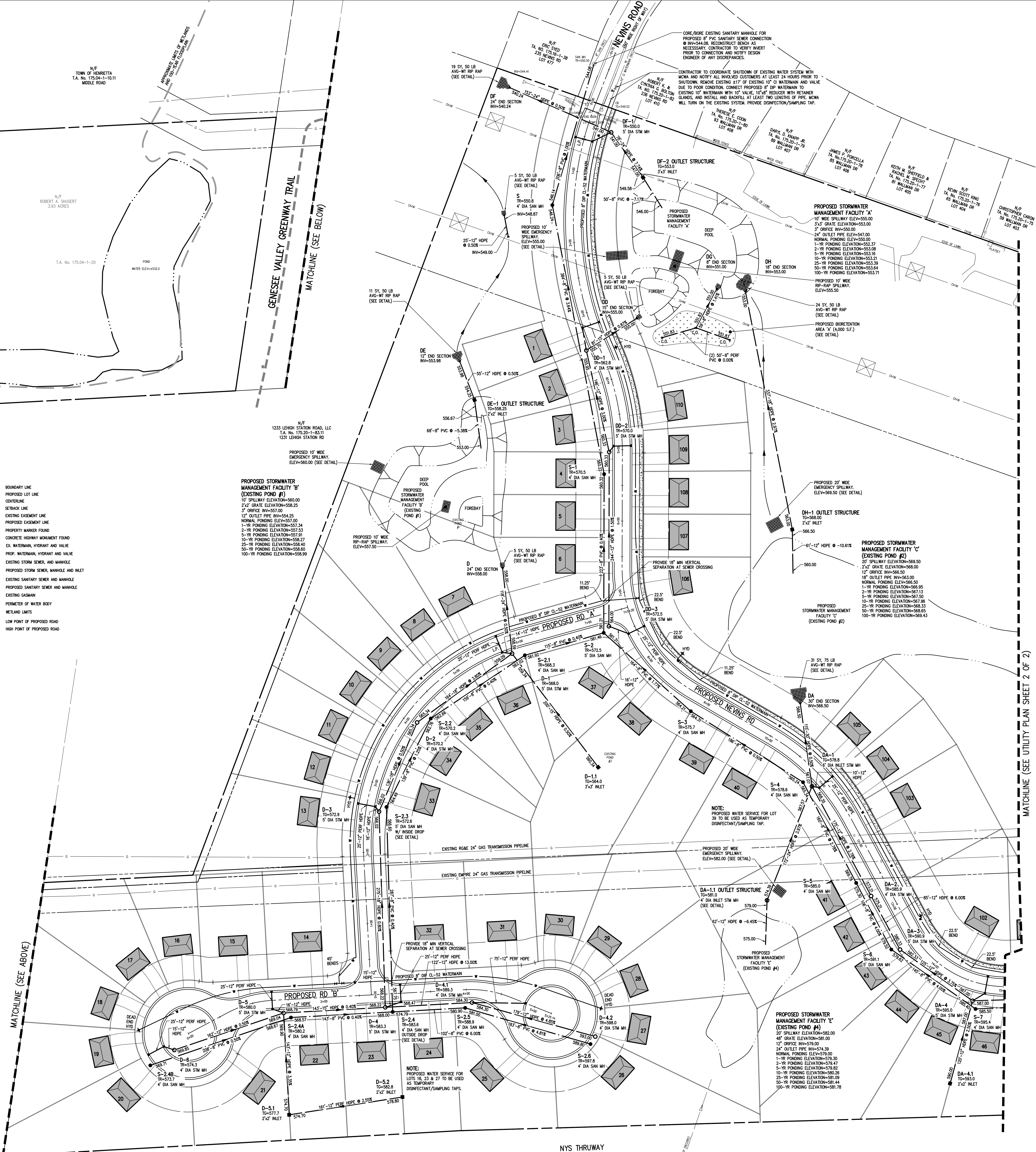
PROJECT: ROCHESTER RUGBY FOOTBALL CLUB  
CLIENT: ROCHESTER RUGBY FOOTBALL CLUB  
DRAWING TITLE: OVERALL PRELIMINARY EXISTING CONDITIONS PLAN

PROJECT MANAGER: J. CHETKOFF  
PROJECT ENGINEER: A. BEYER  
DRAWN BY: A. BEYER  
SCALE: 1"=50'  
DATE ISSUED: AUGUST 2021  
PROJECT NO.: 2728  
DRAWING NO.: 14 (SHEET 2 OF 2)

LEHIPS & CORHAM PURCHASE, TOWNSHIP 12, RANGE 7, TOWN LOT 3, TAX MAP NUMBER: 15.04-1-20, 175.20-1-84, 175.20-1-85, 175.20-1-86, 175.17-1-25.12, 175.17-1-25.13, 175.17-1-25.14, 175.17-1-25.15, 175.17-1-25.16, 175.17-1-25.17, 175.17-1-25.18, 175.17-1-25.19, 175.17-1-25.20, 175.17-1-25.21, 175.17-1-25.22, 175.17-1-25.23, 175.17-1-25.24, 175.17-1-25.25, 175.17-1-25.26, 175.17-1-25.27, 175.17-1-25.28, 175.17-1-25.29, 175.17-1-25.30, 175.17-1-25.31, 175.17-1-25.32, 175.17-1-25.33, 175.17-1-25.34, 175.17-1-25.35, 175.17-1-25.36, 175.17-1-25.37, 175.17-1-25.38, 175.17-1-25.39, 175.17-1-25.40, 175.17-1-25.41, 175.17-1-25.42, 175.17-1-25.43, 175.17-1-25.44, 175.17-1-25.45, 175.17-1-25.46, 175.17-1-25.47, 175.17-1-25.48, 175.17-1-25.49, 175.17-1-25.50, 175.17-1-25.51, 175.17-1-25.52, 175.17-1-25.53, 175.17-1-25.54, 175.17-1-25.55, 175.17-1-25.56, 175.17-1-25.57, 175.17-1-25.58, 175.17-1-25.59, 175.17-1-25.60, 175.17-1-25.61, 175.17-1-25.62, 175.17-1-25.63, 175.17-1-25.64, 175.17-1-25.65, 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175.17-1-31.24, 175.17-1-31.25, 175.17-1-31.26, 175.17-1-31.27, 175.17-1-31.28, 175.17-1-31.29, 175.17-1-31.30, 175.17-1-31.31, 175.17-1-31.32, 175.17-1-31.33, 175.17-1-31.34, 175.17-1-31.35, 175.17-1-31.36, 175.17-1-31.37, 175.17-1-31.38, 175.17-1-31.39, 175.17-1-31.40, 175.17-1-31.41, 175.17-1-31.42, 175.17-1-31.43, 175.17-1-31.44, 175.17-1-31.45, 175.17-1-31.46, 175.17-1-31.47, 175.17-1-31.48, 175.17-1-31.49, 175.17-1-31.50, 175.17-1-31.



SEE UTILITY PLAN (SHEET 2 OF 2)  
FOR MONROE COUNTY DEPARTMENT OF  
HEALTH AND MCWA STANDARD NOTES.



**LEGEND**

—	BOUNDARY LINE
---	PROPOSED LOT LINE
—+—	CENTERLINE
---	SETBACK LINE
---	EXISTING EASEMENT LINE
---	PROPOSED EASEMENT LINE
○	PROPERTY MARKER FOUND
△	CONCRETE HIGHWAY MONUMENT FOUND
○	EX. WATERMAIN, HYDRANT AND VALVE
○	PROP. WATERMAIN, HYDRANT AND VALVE
○	EXISTING STORM CHECK AND MANHOLE
○	PROPOSED STORM CHECK, MANHOLE AND INLET
○	EXISTING SANITARY SOWER AND MANHOLE
○	PROPOSED SANITARY SOWER AND MANHOLE
○	EXISTING GASMAIN
○	PROPOSED GASMAIN
○	PERIMETER OF WATER BODY
○	WETLAND LIMITS
○	LOW POINT OF PROPOSED ROAD
○	H.P.
○	HIGH POINT OF PROPOSED ROAD

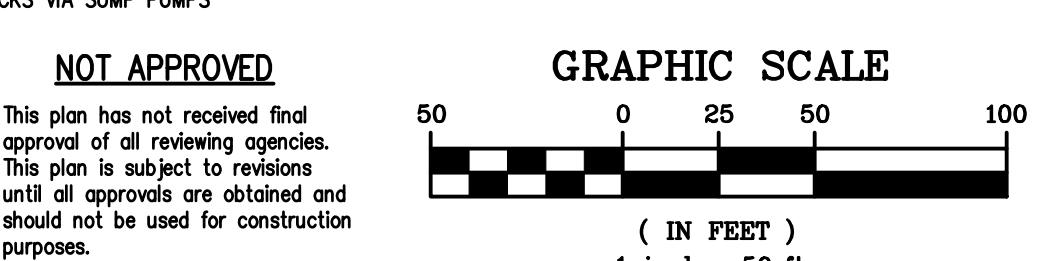
**PROPOSED STORMWATER MANAGEMENT FACILITY 'B' (EXISTING POND #1)**  
10" SPILLWAY ELEVATION=586.00  
2'x2' GRATE ELEVATION=588.25  
3" ORIFICE INV=557.00  
12" OUTLET PIPE INV=564.25  
NORMAL PONDING ELEVATION=557.00  
1-R PONDING ELEVATION=557.24  
2-R PONDING ELEVATION=557.53  
3-R PONDING ELEVATION=557.91  
4-R PONDING ELEVATION=558.40  
5-R PONDING ELEVATION=558.80  
6-R PONDING ELEVATION=558.89

**PROPOSED STORMWATER MANAGEMENT FACILITY 'C' (EXISTING POND #2)**  
20" SPILLWAY ELEVATION=569.50  
2'x2' GRATE ELEVATION=568.50  
12" ORIFICE INV=568.50  
15" OUTLET PIPE INV=563.00  
NORMAL PONDING ELEVATION=568.50  
1-R PONDING ELEVATION=566.95  
2-R PONDING ELEVATION=567.13  
3-R PONDING ELEVATION=567.50  
4-R PONDING ELEVATION=568.33  
5-R PONDING ELEVATION=568.63  
100-R PONDING ELEVATION=568.43

**PROPOSED STORMWATER MANAGEMENT FACILITY 'E' (EXISTING POND #4)**  
20" SPILLWAY ELEVATION=582.00  
2'x2' GRATE ELEVATION=581.00  
3" ORIFICE INV=570.00  
12" OUTLET PIPE INV=574.39  
NORMAL PONDING ELEVATION=579.30  
1-R PONDING ELEVATION=579.47  
2-R PONDING ELEVATION=579.82  
3-R PONDING ELEVATION=580.26  
4-R PONDING ELEVATION=581.09  
5-R PONDING ELEVATION=581.44  
100-R PONDING ELEVATION=581.38

**UTILITY NOTES:**

1. THE SETBACK LINES AND NOTES RELATING TO SETBACKS SHOWN HEREIN ARE INTENDED TO SHOW APPLICABLE ZONING REQUIREMENTS AND APPROVALS UNDER SECTION 2706 OF TOWN LAW OF THE TOWN OF HENRIETTA AS OF THE DATE OF THIS PLAN AND ARE NOT INTENDED TO IMPOSE ANY ADDITIONAL RESTRICTIONS OTHER THAN SAID ZONING REQUIREMENTS.
  2. BUILDINGS SHOWN ON THIS PLAN ARE GRAPHICAL REPRESENTATIONS ONLY.
  3. ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE MOST RECENT STANDARDS AND SPECIFICATIONS OF THE TOWN OF HENRIETTA, THE APPROPRIATE AGENCIES (E. MONROE COUNTY WATER AUTHORITY, AND THE MONROE COUNTY HEALTH DEPARTMENT) UNLESS OTHERWISE NOTED.
  4. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD, AND PRESERVE ALL SURVEY CONTROL MONUMENTS AND RIGHT-OF-WAY MONUMENTS IN THE AREAS OF CONSTRUCTION. FOR DESCRIPTIVE AND SURVEY DATA ON THE CONTROL MONUMENTS, CALL THE MONROE COUNTY GEODETIC SURVEY OFFICE.
  5. THE DEVELOPER'S AND CONTRACTOR'S ATTENTION IS DIRECTED TO LOCAL LAW NO. 6 OF 1971 REGARDING LIABILITY INCURRED THROUGH DISTURBANCES OR DESTRUCTION OF GEODETIC SURVEY MONUMENTS.
  6. EXISTING UNDERGROUND UTILITIES SHOWN HEREIN WERE PLOTTED FROM FIELD LOCATIONS AND/OR AVAILABLE UTILITY COMPANY RECORD PLANS. EXISTING UTILITIES WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT AREA MAY NOT BE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL CALL THE UTILITY HOTLINE AT (716)522-2300 OR 811 FOR STATE-OUT OF EXISTING UTILITIES.
  7. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION AND ELEVATION OF UNDERGROUND UTILITIES BEFORE COMMENCING CONSTRUCTION. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS TO LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS AS REQUIRED TO MEET EXISTING CONDITIONS.
  8. ALL UNDERGROUND UTILITY LINES AND SERVICES IN PROPOSED PAVEMENT AREAS SHALL BE BACKFILLED WITH #1 AND #2 CRUSHER RUN STONE PLACED IN 4" LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY. THROUGH AN INDEPENDENT TESTING LABORATORY, THE CONTRACTOR WILL PROVIDE A MINIMUM OF TWO PASSING TESTS PER TRENCH CROSSING CERTIFYING 95% COMPACTION AT THE SUBBASE ELEVATION. EACH TEST IS NOT TO EXCEED 15'.
  9. ALL PIPE CROSSINGS TO BE STORED FROM BOTTOM TRENCH OF LOWER PIPE TO SPRING LINE OF UPPER PIPE.
  10. ALL PROPOSED UTILITIES OUTSIDE OF OR ADJACENT TO ROAD RIGHT-OF-WAY LIMITS WILL REQUIRE PROPOSED EASEMENTS TO THE TOWN OF HENRIETTA, AND/OR MCWA AS APPROPRIATE. THE PROPOSED EASEMENT LOCATIONS WILL BE PROVIDED ON FINAL SITE PLANS.
- WATERMANS:**
11. WATERMANS AND APPURTENANCES TO BE CONSTRUCTED TO THE MOST RECENT STANDARDS AND SPECIFICATIONS OF THE MONROE COUNTY WATER AUTHORITY. (SEE MCWA PUBLIC WATER SYSTEM PLAN).
  12. FOR WATERMAN CONSTRUCTION, ALL MECHANICAL JOINT FITTINGS, TEES, BENDS, PLUS, ETC. SHALL BE BACKED WITH 2500 PSI CONCRETE THROUGH BRICKS.
  13. WATERMANS SHALL BE DUCTILE IRON CHENET LINE CLASS 50 OR AS NOTED ON THE PLANS.
  14. WATERMANS AND APPURTENANCES SHALL BE INSTALLED PER THE MOST RECENT ANMA C600 FOR DI STANDARDS.
  15. THE WATERMAN SHALL BE PRESSURE/LEAKAGE TESTED IN ACCORDANCE WITH THE MONROE REQUIREMENTS OF THE ANMA CODE STANDARDS (LATEST REVISION) OR IN ACCORDANCE WITH MORE STRINGENT REQUIREMENTS IMPOSED BY THE MONROE COUNTY WATER AUTHORITY.
  16. THE WATER MAIN SHALL BE DISINFECTED PER THE MOST RECENT ANMA C655 STANDARDS. FOLLOWING DISINFECTION, THE WATER MAIN SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVALENT IN THE SYSTEM. THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLUSHING.
- FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS.**
- THE MONROE COUNTY DEPARTMENT OF HEALTH MUST RECEIVE AT LEAST 48-HOUR ADVANCE NOTIFICATION REQUESTING SAMPLING SERVICES. THE HEALTH DEPARTMENT WILL CHECK SAMPLES FOR FREE CHLORINE, RESIDUAL CHLORINE, COLIFORM AND 24-HOUR BACTERIAL PLATE COUNT.
- ALL WATER MAIN FITTINGS NOT RECEIVING 24-HOUR CHLORINE DISINFECTION CONTRACT TIME MUST BE SWAB DISINFECTED 30 MINUTES PRIOR TO INSTALLATION.
- THE WATER MAIN SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE MONROE COUNTY DEPARTMENT OF HEALTH.
17. ALL WATERMANS SHALL HAVE A MINIMUM OF SIX FEET OF COVER FROM FINISHED GRADE IN LAIN AREAS AND A MINIMUM OF SIX FEET OF COVER FROM FINISHED GRADE IN PAVED AREAS. THE CONTRACTOR SHALL CHECK ALL CUT STAKES BEFORE TRENCHING TO INSURE THAT ALL INSTALLED WATERMANS WILL HAVE THE REQUIRED COVER.
  18. WHEN INSTALLING FIRE HYDRANTS, SHOULD GROUNDWATER BE ENCOUNTERED WITHIN SEVEN (7) FEET OF THE FINISH GRADE, FIRE HYDRANT WHEELHOLES (DRAINS) SHALL BE PLOUGHED.
  19. PRIOR TO INSTALLATION OF THE WATERMAIN, THE CONTRACTOR SHALL PROVIDE RESULTS OF A POINT SOIL TEST EVALUATION FOR HEAVY METALS (COBALT, CADMIUM AND ZINC) TO DETERMINE THE NEED FOR POLYETHYLENE ENCASUREMENT SOIL TESTS ARE TO BE PERFORMED BY AN APPROVED SOIL TESTING LABORATORY IN ACCORDANCE WITH MCWA STANDARDS.
  20. MANHOLE SEPARATION BETWEEN WATERMAIN AND SEWER MAIN TO BE 10" VERTICALLY MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. MINIMUM HORIZONTAL SEPARATION BETWEEN WATERMANS AND SEWER MAINS TO BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES. ONE FULL LENGTH OF WATERMAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH MAINS WILL BE 6" FAR FROM THE SEWER AS POSSIBLE. WHERE A WATERMAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL SHALL BE PROVIDED FOR THE SEWERS TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING THE WATERMANS.
- SANITARY SEWERS:**
21. ALL SANITARY SEWERS ARE IN COMPLIANCE WITH THE SPECIFICATIONS AND SOWER POLICY OF THE TOWN OF HENRIETTA.
  22. SANITARY SEWERS, HOUSE LATERALS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO THE SPECIFICATIONS OF THE TOWN OF HENRIETTA.
  23. SANITARY SOWER PIPE SHALL BE 8" PVC SDR-35 OR AS NOTED ON THE PLAN.
  24. FLOOR DRAINS TO BE CONNECTED TO THE SANITARY SEWER. FLOOR DRAINS DO NOT INCLUDE FOUNDATION OF FOOTER DRAINS INSTALLED TO INTERCEPT UNSATURATED GROUNDWATER. ALL DISCHARGES TO THE SANITARY SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR THE MONROE COUNTY SEWER USE LAW.
  25. INFILTRATION AND EXFILTRATION SHALL BE LIMITED TO 100 GALLONS PER INCH DIAMETER OF PIPE PER 24 HOURS OF SANITARY SEWERS. IF AN AIR TEST IS USED, THE TEST AS A MINIMUM SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM-C-820-04, ENTITLED "STANDARD PRACTICE FOR LOW PRESSURE AIR TEST OF INTERFITTED PIPE LINE JOINTS. SANITARY MANHOLES SHALL BE TESTED FOR EXFILTRATION.
- WATER TESTING - EACH MANHOLE SHALL BE FILLED WITH A MAXIMUM OF 10 FEET OF WATER, SUBJECTED TO A 24 HOUR TEST AND SHOW A LOSS OF WATER NOT TO EXCEED 15 GALLONS/24 HOURS FOR A 4 FOOT DMH. INFILTRATION TESTS SHALL BE PERFORMED TO THE SAME LIMITS.**
- VACUUM TESTING - EACH MANHOLE SHALL BE SUBJECTED TO A VACUUM OF 10 INCHES OF HG FOR ONE MINUTE WITH AN ALLOWABLE LOSS OF 1 INCH OF HG.**
- THE FOLLOWING TESTS SHALL BE PERFORMED ON PVC SANITARY SOWER PIPE:
- a) DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACK FILL HAS BEEN IN PLACE AT LEAST 30 DAYS. ALL SEWER MAIN LINES SHALL BE TESTED AT 4" H.G.
  - b) NO PIPE SHALL EXCEED A 5% DEFLECTION.
  - c) IF THE DEFLECTION TEST IS TO BE RUN USING A ROAD BLOCK OR MANHOLE, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
27. NEW SEWERS ARE TO BE PLACED WHEN CONNECTED TO EXISTING MANHOLES UNTIL THE NEW SEWERS ARE FLOODED, TESTED, AND READY FOR SERVICE.
- STORM SEWERS:**
28. STORM SEWERS, HOUSE LATERALS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO THE SPECIFICATIONS OF THE TOWN OF HENRIETTA.
  29. STORM SOWER PIPE SHALL BE HOPE OR AS NOTED ON THE PLAN.
  30. CHECK VALVES TO BE PROVIDED ON SUMP PUMPS.
  31. DOWNSPOUTS SHALL DISCHARGE ON SPLASH BLOCKS. FOUNDATION DRAINS SHALL DISCHARGE ON SPLASH BLOCKS VIA SUMP PUMPS.

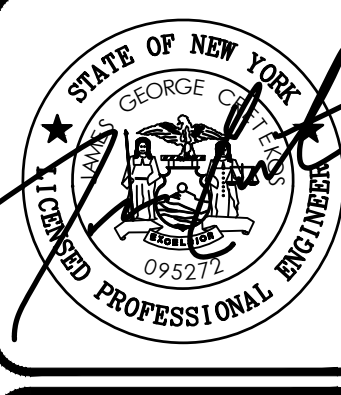


**DEVELOPER'S STATEMENT**  
This drawing is an excerpt from the final site plan submitted to the Health Department under Section 2706 of the Town Law of the Town of Henrietta, New York, and applies to the project shown on this drawing. It is a portion of this plan for the project shown on this drawing and is not intended to be used as a separate drawing or plan. The developer warrants that the information shown on this drawing is true and correct to the best of their knowledge and belief, and that they are not aware of any facts or circumstances which might render the information shown on this drawing false or misleading. The developer warrants that they are not aware of any facts or circumstances which might render the information shown on this drawing false or misleading. The developer warrants that they are not aware of any facts or circumstances which might render the information shown on this drawing false or misleading.

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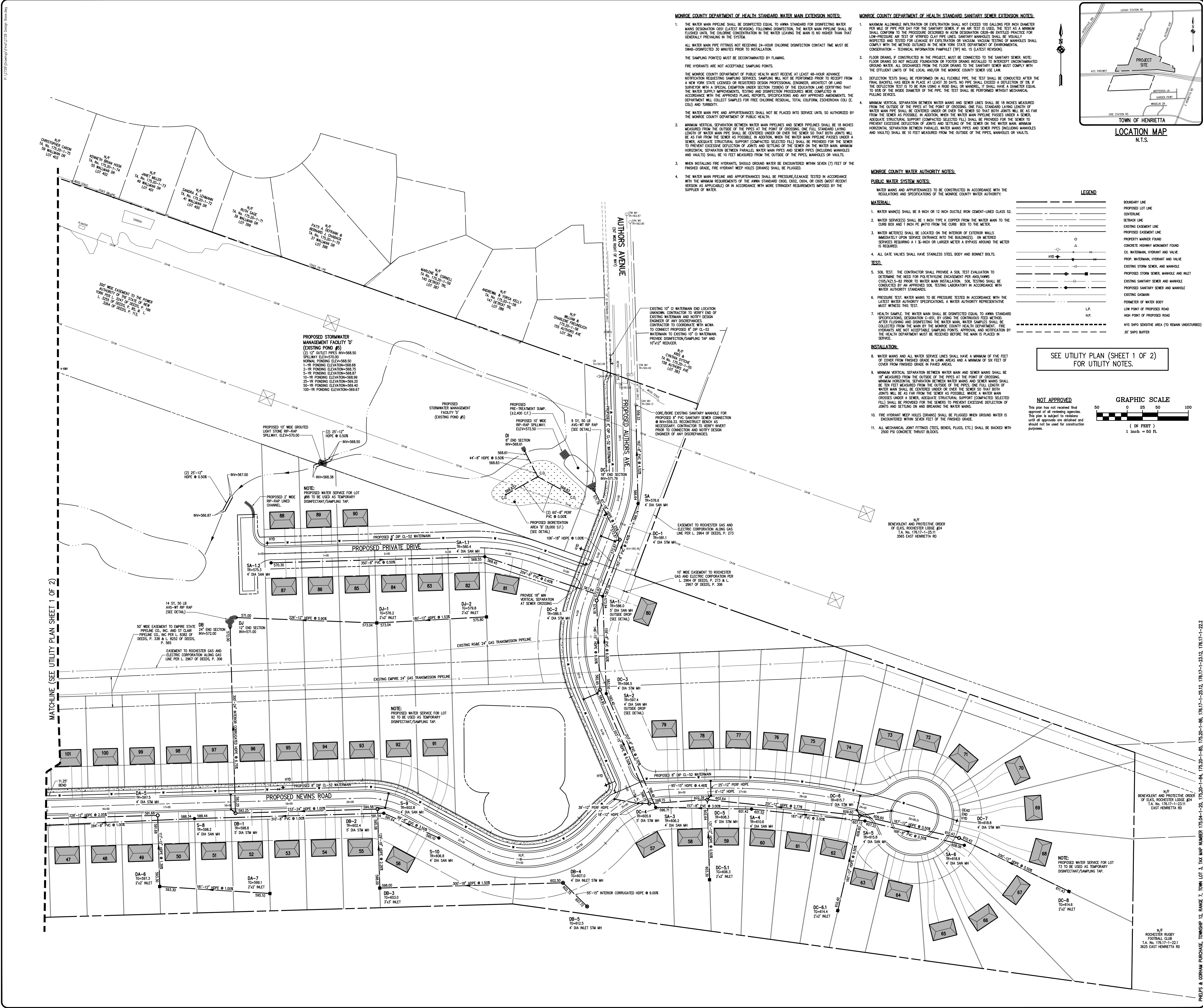
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**BME ASSOCIATES**  
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**LEHIGH RIDGE**  
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www.umi.com

**UTILITY PLAN**  
PROJECT: TOWN OF HENRIETTA, MONROE COUNTY, NEW YORK STATE  
CLIENT: TOWN OF HENRIETTA  
PROJECT ENGINEER: J. VARES  
PROJECT ENGINEER: J. CHRETIK  
DRAWN BY: A. BEYER  
SCALE: 1"=50'  
DATE ISSUED: AUGUST 2021  
PROJECT NO.: 2728  
DRAWING NO.: 15  
(SHEET 1 OF 2)



**MONROE COUNTY DEPARTMENT OF HEALTH STANDARD WATER MAIN EXTENSION NOTES:**

1. THE WATER MAIN PIPELINE SHALL BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS (DEPARTMENT OF HEALTH LATEST REVISION). FOLLOWING DISINFECTION, THE WATER MAIN PIPELINE SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM.  
ALL WATER MAIN PIPE FITTINGS NOT RECEIVING 24-HOUR CHLORINE DISINFECTION CONTACT TIME MUST BE SWAB-DISINFECTED 30 MINUTES PRIOR TO INSTALLATION.  
THE SAMPLING POINTS MUST BE DECONTAMINATED BY FLUSHING.  
FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS.  
THE MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH MUST RECEIVE AT LEAST 48-HOUR ADVANCE NOTIFICATION REQUESTING SAMPLING SERVICES. SAMPLING WILL NOT BE PERFORMED PRIOR TO RECEIPT FROM A NEW YORK STATE LICENSED OR REGISTERED DESIGN PROFESSIONAL (ENGINEER, ARCHITECT OR LAND SURVEYOR) WITH A SPECIAL EXEMPTION UNDER SECTION 7206(N) OF THE EDUCATION LAW CERTIFYING THAT THE WATER SUPPLY IMPROVEMENTS, TESTING AND DISINFECTION PROCEDURES WERE COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS, REPORTS, SPECIFICATIONS AND ANY APPROVED AMENDMENTS. THE DEPARTMENT WILL COLLECT SAMPLES FOR FREE CHLORINE RESIDUAL, TOTAL COLIFORM, ESCHERICHIA COLI (E. COLI) AND TURBIDITY.  
THE WATER MAIN PIPE AND APPURTENANCES SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH.
2. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAIN PIPELINES AND SEWER PIPELINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LENGTH LENGTH OF WATER MAIN PIPE SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PIPELINES PASS UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAIN PIPES AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.
3. WHEN INSTALLING FIRE HYDRANTS, SHOULD GROUND WATER BE ENCOUNTERED WITHIN SEVEN (7) FEET OF THE FINISHED GRADE, FIRE HYDRANT HEAD HOLES (DRAINS) SHALL BE PLUGGED.
4. THE WATER MAIN PIPELINE AND APPURTENANCES SHALL BE PRESSURE/LEAKAGE TESTED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE AWWA STANDARD C600, C602, C604, OR C605 (MOST RECENT VERSION AS APPLICABLE) OR IN ACCORDANCE WITH MORE STRINGENT REQUIREMENTS IMPOSED BY THE SUPPLIER OF WATER.

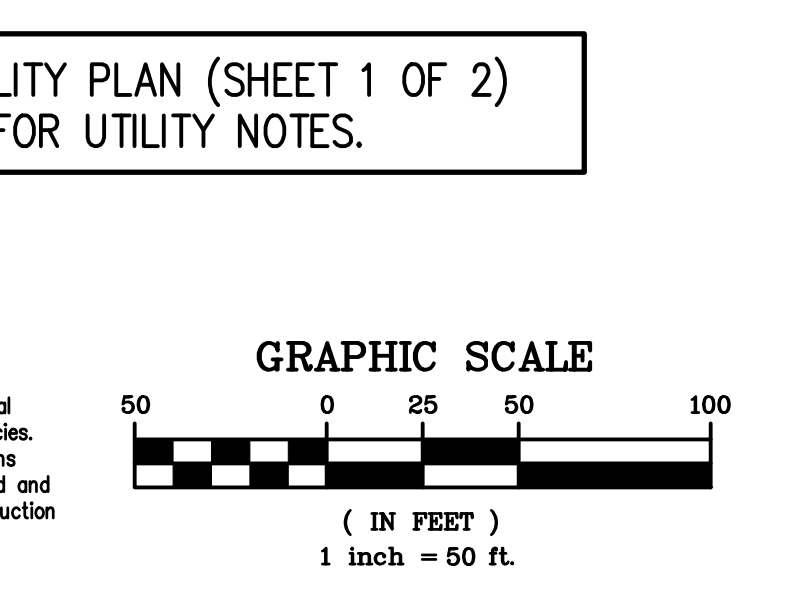
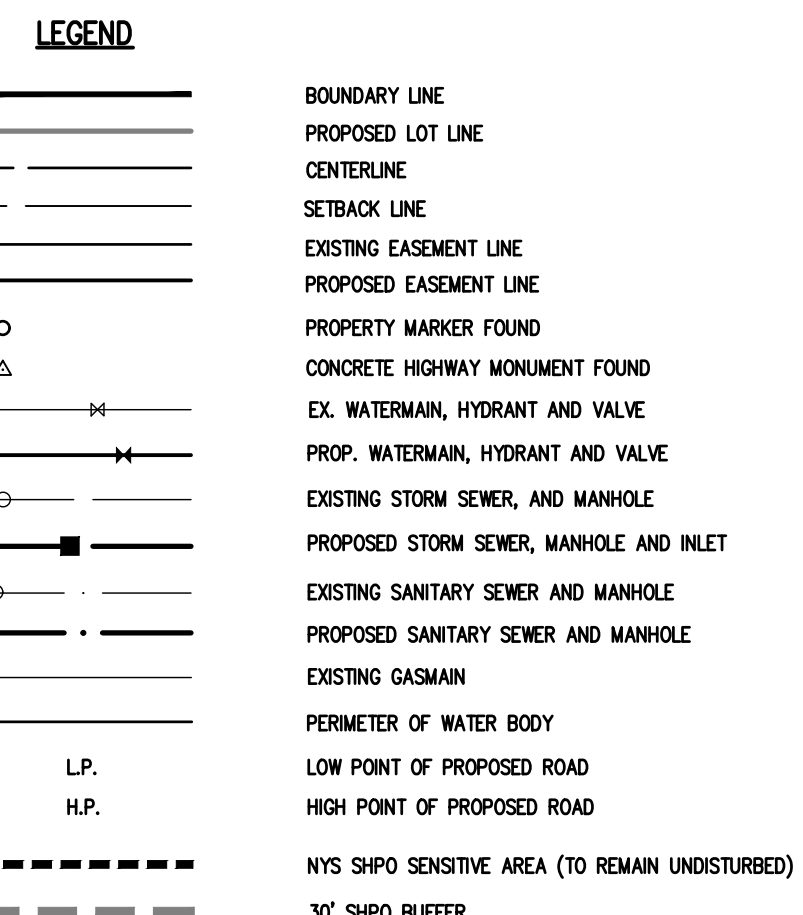
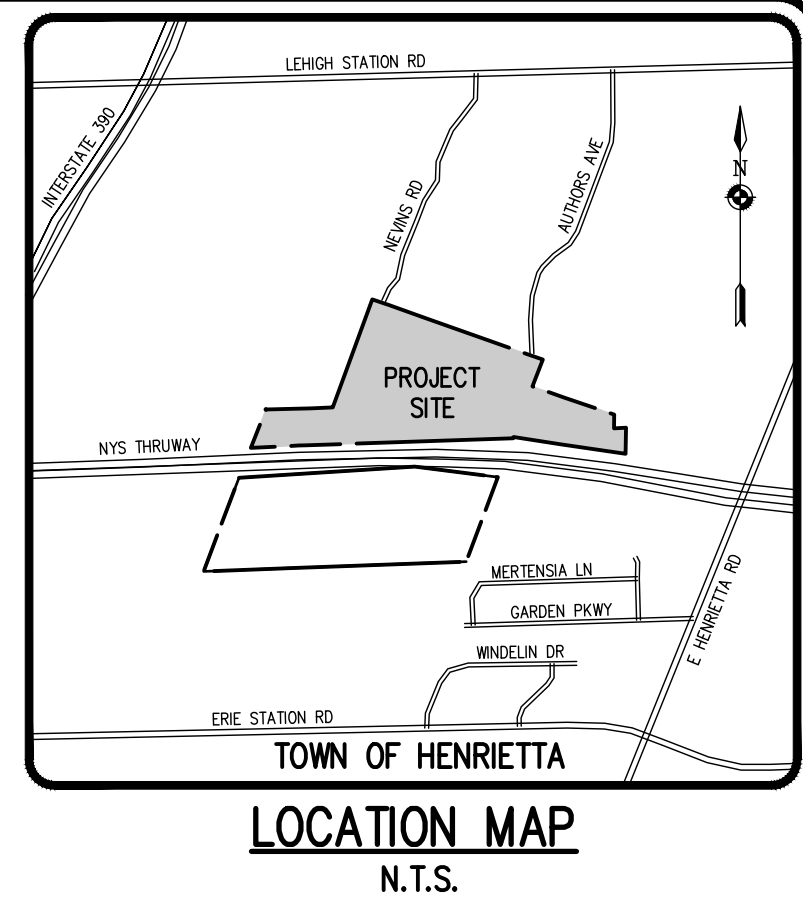
**MONROE COUNTY DEPARTMENT OF HEALTH STANDARD SANITARY SEWER EXTENSION NOTES:**

1. MAXIMUM ALLOWABLE INFILTRATION OR EXFILTRATION SHALL NOT EXCEED 100 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER DAY FOR THE SANITARY SEWER. IF AN AIR TEST IS USED, THE TEST AS A MINIMUM SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM D5226 (2008-08) ENTITLED PRACTICE FOR LOW-PRESSURE AIR TEST OF HYDRATED CLAY PIPE LINES. SANITARY MANHOLES SHALL BE VISUALLY INSPECTED AND TESTED FOR LEAKAGE BY EXPLORATION OR VACUUM. VACUUM TESTING OF MANHOLES SHALL CONFORM WITH THE METHOD OUTLINED IN THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION - TECHNICAL INFORMATION PAMPHLET (TIP) NO. 15 (LATEST REVISION).
2. FLOOR DRAINS IF CONSTRUCTED IN THE PROJECT, MUST BE CONNECTED TO THE SANITARY SEWER. FLOOR DRAINS DO NOT INCLUDE FOUNDATION OR FOOTER DRAINS INSTALLED TO REDUCIFY UNCONFINED GROUND WATER. ALL DISCHARGES FROM THE FLOOR DRAINS TO THE SANITARY SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR THE MONROE COUNTY SEWER USE LAW.
3. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 0.4% THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANHOLE. IT SHALL HAVE A DIAMETER EQUAL TO 80% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
4. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER LINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LENGTH LENGTH OF WATER MAIN PIPE SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PIPELINES PASS UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAIN PIPES AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.

**MONROE COUNTY WATER AUTHORITY NOTES:**

**PUBLIC WATER SYSTEM NOTES:**

- WATER MAINS AND APPURTENANCES TO BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND SPECIFICATIONS OF THE MONROE COUNTY WATER AUTHORITY:
1. **MATERIAL:**  
WATER MAIN(S) SHALL BE 8 INCH OR 12 INCH DUCTILE IRON CEMENT-LEADED CLASS 52.
  2. WATER SERVICE(S) SHALL BE 1 INCH TYPE K COPPER FROM THE WATER MAIN TO THE CURB BOX AND 1 INCH PE #470 FROM THE CURB BOX TO THE METER.
  3. WATER METERS SHALL BE LOCATED ON THE INTERIOR OF EXTERIOR WALLS IMMEDIATELY UPON SERVICE ENTRANCE INTO THE BUILDINGS. ON METERS REQUIRING A 1 1/2-INCH OR LARGER METER A BYPASS AROUND THE METER IS REQUIRED.
  4. ALL GATE VALVES SHALL HAVE STAINLESS STEEL BODY AND BONNET BOLTS.
- TEST:**
1. **SOIL TEST:** THE CONTRACTOR SHALL PROVIDE A SOIL TEST EVALUATION TO DETERMINE THE NEED FOR POLYETHYLENE ENCASEMENT FOR MANS/AMMS. CDS/AS/LS-322 PRIOR TO WATER MAIN INSTALLATION. SOIL TESTING SHALL BE CONDUCTED BY AN APPROVED SOIL TESTING LABORATORY IN ACCORDANCE WITH WATER AUTHORITY STANDARDS.
  2. **PRESSURE TEST:** WATER MAINS TO BE PRESSURE TESTED IN ACCORDANCE WITH THE LATEST WATER AUTHORITY SPECIFICATIONS. A WATER AUTHORITY REPRESENTATIVE MUST WITNESS THE TEST.
  3. **HEALTH SAMPLE:** THE WATER MAIN SHALL BE DISINFECTED EQUAL TO AWWA STANDARD SPECIFICATIONS, DESINFECTION C-601, BY USING THE CONTINUOUS FEED METHOD. AFTER FLUSHING AND DISINFECTING THE WATER MAIN, WATER SAMPLES SHALL BE COLLECTED FROM THE MAIN BY THE MONROE COUNTY HEALTH DEPARTMENT. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS. APPROVAL AND NOTIFICATION BY THE HEALTH DEPARTMENT MUST BE RECEIVED BEFORE THE MAIN IS PLACED IN SERVICE.
- INSTALLATION:**
1. WATER MAINS AND ALL WATER SERVICE LINES SHALL HAVE A MINIMUM OF FIVE FEET OF COVER FROM FINISHED GRADE IN LAWN AREAS AND A MINIMUM OF SIX FEET OF COVER FROM FINISHED GRADE IN PARKED AREAS.
  2. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAIN AND SEWER MAINS SHALL BE 18" MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SEWER MAINS SHALL BE TEN FEET MEASURED FROM THE OUTSIDE OF THE PIPES. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWERS TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING THE WATER MAINS.
  3. FIRE HYDRANT HEAD HOLES (DRAINS) SHALL BE PLUGGED WHEN GROUND WATER IS ENCOUNTERED WITHIN SEVEN FEET OF THE FINISHED GRADE.
  4. ALL MECHANICAL JOINT FITTINGS (TEES, ELBOWS, PLUGS, ETC.) SHALL BE BAKED WITH 2500 PPS CONCRETE THRUST BLOCKS.



SEE UTILITY PLAN (SHEET 1 OF 2) FOR UTILITY NOTES.

NOT APPROVED  
This plan has not received final approval of all reviewing agencies. This plan is subject to revisions until all approvals are obtained and should not be used for construction purposes.

Drainage alterations  
This drawing is an extract from the New York State Standard Law 143 Section 7208 and applies to the plan.  
It is a violation of this law for any person, within the 500 feet radius of the location of any alteration, to alter any part of an engineer or land surveyor's plan in any way if it will interfere with the drainage of any lot or with the use of the station shown by the plan or to obstruct or interfere with the drainage of any lot or with the use of the station shown by the plan or to obstruct or interfere with the drainage of any lot or with the use of the station shown by the plan.

NO.	REVISIONS	DATE	BY
1	REVISED PER CLIENT INPUT	4/17/22	RPB
2	REVISED PER TOWN AND AGENCY COMMENTS	5/7/22	RPB
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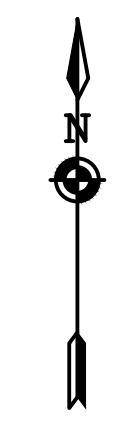
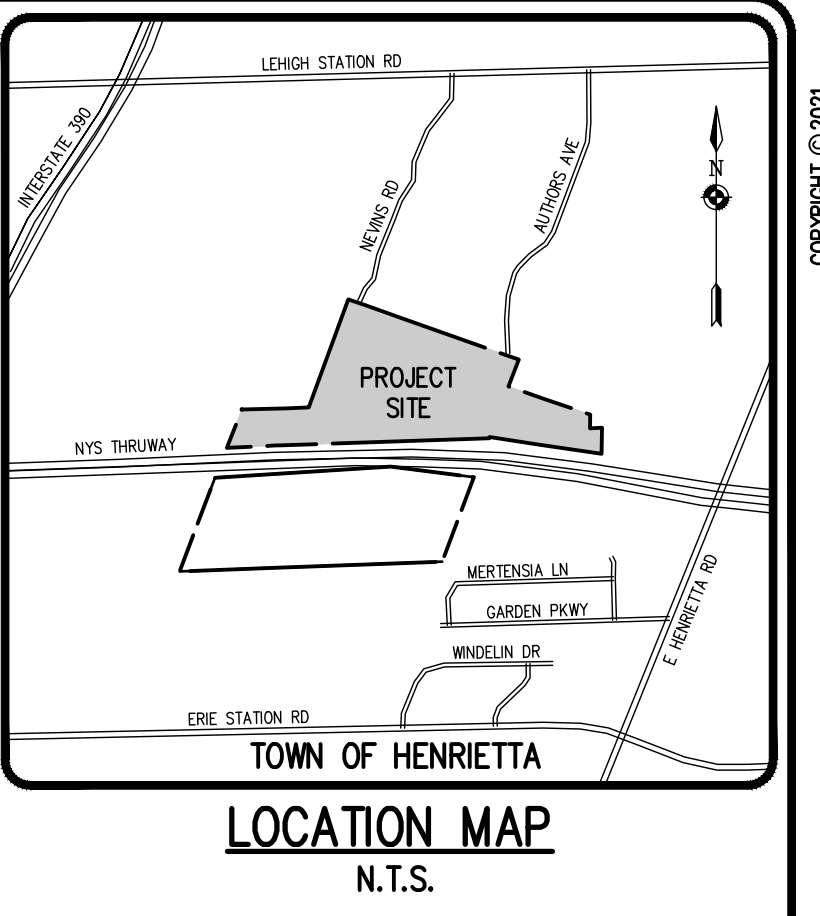
MATCHLINE (SEE UTILITY PLAN SHEET 1 OF 2)

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**LEHIGH RIDGE**  
TOWN OF HENRIETTA, MONROE COUNTY, NEW YORK STATE  
PROJECT NO. 14-501  
CLIENT: ROCHESTER RUGBY FOOTBALL CLUB  
PROJECT ENGINEER: J. CHETKOVS  
DRAWN BY: A. BEYLER  
DATE ISSUED: AUGUST 2021  
PROJECT NO. 14-501  
DRAWING NO. 2728  
(SHEET 2 OF 2)

**LEHIGH RIDGE**  
TOWN OF HENRIETTA, MONROE COUNTY, NEW YORK STATE  
PROJECT NO. 14-501  
CLIENT: ROCHESTER RUGBY FOOTBALL CLUB  
PROJECT ENGINEER: J. CHETKOVS  
DRAWN BY: A. BEYLER  
DATE ISSUED: AUGUST 2021  
PROJECT NO. 14-501  
DRAWING NO. 2728  
(SHEET 2 OF 2)



**LEGEND**

- BOUNDARY LINE
- PROPOSED LOT LINE
- CENTURINE
- SETBACK LINE
- PROPERTY MARKER FOUND
- CONCRETE HIGHWAY MONUMENT FOUND
- WOOD FENCE POST FOUND
- EX. WATERMAN, HYDRANT AND VALVE
- PROF. WATERMAN, HYDRANT AND VALVE
- EXISTING STORM SEWER, AND MANHOLE
- PROPOSED STORM SEWER, MANHOLE AND INLET
- EXISTING SANITARY SEWER AND MANHOLE
- PROPOSED SANITARY SEWER AND MANHOLE
- EXISTING GASMAIN
- EXISTING TREELINE
- PROPOSED TREE LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED FINISHED GRADE
- PROPOSED 5' WIDE STONE DUST TRAIL
- PROPOSED 6' WIDE LEHIGH VALLEY TRAIL



**GRADING NOTES:**

1. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD, AND PRESERVE ALL SURVEY CONTROL MONUMENTS AND RIGHT-OF-WAY MONUMENTS IN THE AREAS OF CONSTRUCTION. FOR DESCRIPTIVE AND SURVEY DATA ON THE CONTROL MONUMENTS, CALL THE MONROE COUNTY GEODETIC SURVEY OFFICE.
2. THE DEVELOPER'S AND CONTRACTOR'S ATTENTION IS DIRECTED TO LOCAL LAW NO. 8 OF 1971 REGARDING LIABILITY INCURRED THROUGH DISTURBANCE OR DESTRUCTION OF GEODETIC SURVEY MONUMENTS.
3. EXISTING UNDERGROUND UTILITIES SHOWN HEREIN WERE PLOTTED FROM FIELD LOCATIONS AND/OR AVAILABLE UTILITY COMPANY RECORD PLANS. EXISTING UTILITIES WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT AREA MAY NOT BE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL CALL THE UPPO HOLDING AT (508)982-7962 OR 811 FOR STAKE-OUT OF EXISTING UTILITIES.
4. THE OWNER AND THE CONTRACTOR SHALL HAVE COMPLETE KNOWLEDGE OF THE CURRENT BLASTING POLICY FOR THE TOWN OF HENRIETTA, AND THEY WILL CONFORM TO THIS POLICY AT ALL TIMES.
5. THE OWNER AND THE CONTRACTOR SHALL HAVE COMPLETE KNOWLEDGE OF THE CURRENT CONSTRUCTION GUIDELINES FOR THE EMPIRE PIPELINE ENCROACHMENT MANUAL, AND THEY WILL CONFORM TO THIS MANUAL AT ALL TIMES.
6. FILL MATERIAL PLACED IN THE PAVEMENT AND BUILDING AREA SHALL BE SELECT MATERIAL AND COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AS MEASURED BY THE MODIFIED PROCTOR TEST (ASTM D1557) AND/OR THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL SUPPLY THE ENGINEER AND THE TOWN OF HENRIETTA WITH COMPACTOR TEST RESULTS PRIOR TO PLACING THE STONE SUBBASE.
7. CONTRACTOR SHALL INSTALL STONE SUBBASE AND THE ASPHALT CONCRETE BINDER COURSE. PRIOR TO PLACING THE BINDER COURSE, THE ROAD BASE SHALL BE REFINISHED BY THE ENGINEER AND THE TOWN. THE REMAINING ASPHALT CONCRETE TOP COURSE SHALL BE PLACED ONE YEAR AFTER THE BINDER COURSE.
8. THE CONTRACTOR SHALL CONSTRUCT DUST BARRIERS AS DIRECTED BY THE TOWN OF HENRIETTA.
9. CONTRACTOR TO REFERENCE THE EMPIRE PIPELINE ENCROACHMENT MANUAL FOR GUIDELINES ON CONSTRUCTION ACTIVITIES WITHIN THE EMPIRE AND ROSE RIGHTS-OF-WAY.

LANDSCAPE PLANS TO BE PROVIDED FOR EACH INDIVIDUAL PHASE DURING FINAL SUBDIVISION APPROVAL.

CONSTRUCTION EROSION CONTROL PLANS TO BE PROVIDED FOR EACH INDIVIDUAL PHASE DURING FINAL SUBDIVISION APPROVAL.

**NOT APPROVED**

This plan has not received final approval of all reviewing agencies. This plan is subject to revisions until all approvals are obtained and should not be used for construction purposes.

**GRAPHIC SCALE**

1" = 50 FT

0 25 50 100

( IN FEET )

1 inch = 50 ft

Engineering Information  
This drawing is an extract from the New York State Standard Law Article 143 Section 7209 and applies to this drawing.  
It is a violation of this law for any person, unless he is acting under the supervision of a duly licensed professional engineer or land surveyor to alter or change in any way any of the lines, notes, or data on this drawing or to use the drawing for any purpose other than that intended by the engineer or land surveyor, and a specific description of the alteration.

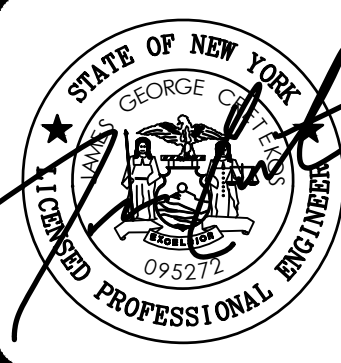
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**LEHIGH RIDGE**

TOWN OF HENRIETTA, MONROE COUNTY, NEW YORK STATE

PROJECT NO. 17278

CLIENT: SHELDON & CORHAM PURCHASE

DATE ISSUED: AUGUST 2021

**OVERALL PRELIMINARY GRADING PLAN**

PROJECT MANAGER: J. VARS

PROJECT ENGINEER: J. CHETKO

DRAWN BY: A. BEYLER

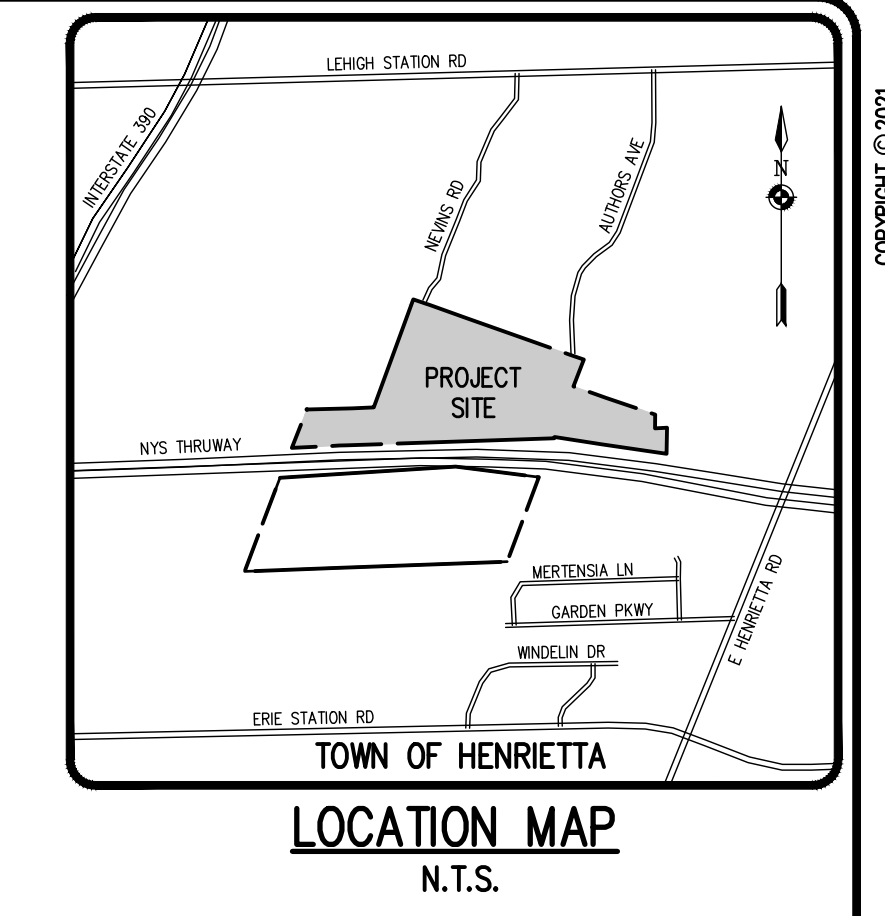
DATE ISSUED: AUGUST 2021

PROJECT NO. 17278

DRAWING NO. 2728

17 (SHEET 1 OF 2)

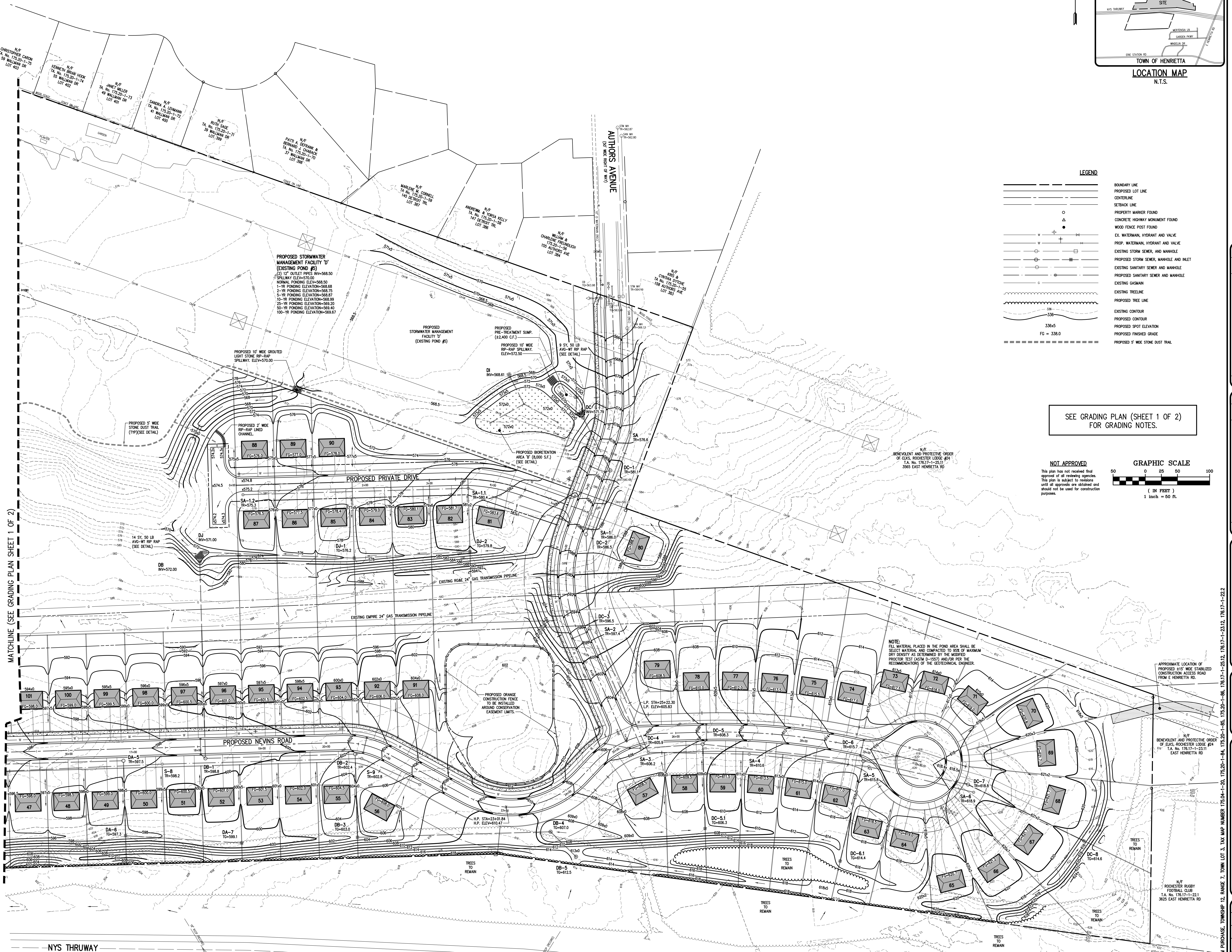
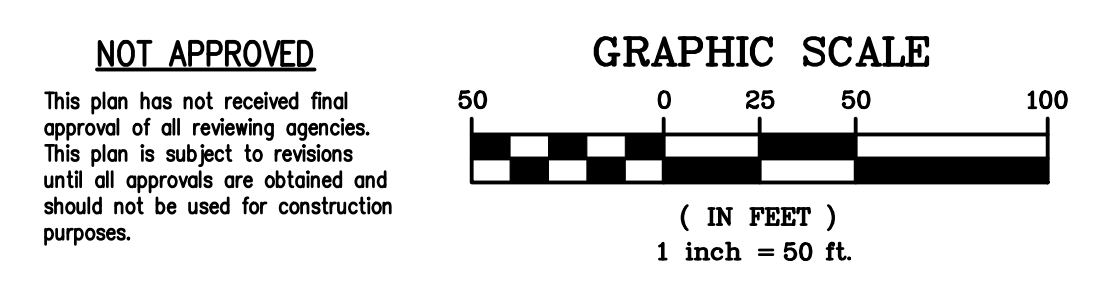




**LEGEND**

[Symbol]	BOUNDARY LINE
[Symbol]	PROPOSED LOT LINE
[Symbol]	CENTERLINE
[Symbol]	SETBACK LINE
[Symbol]	PROPERTY MARKER FOUND
[Symbol]	CONCRETE HIGHWAY MONUMENT FOUND
[Symbol]	WOOD FENCE POST FOUND
[Symbol]	EX. WATERMAN, HYDRANT AND VALVE
[Symbol]	PROP. WATERMAN, HYDRANT AND VALVE
[Symbol]	EXISTING STORM SEWER, AND MANHOLE
[Symbol]	PROPOSED STORM SEWER, MANHOLE AND INLET
[Symbol]	EXISTING SANITARY SEWER AND MANHOLE
[Symbol]	PROPOSED SANITARY SEWER AND MANHOLE
[Symbol]	EXISTING GASMAIN
[Symbol]	EXISTING TREE LINE
[Symbol]	PROPOSED TREE LINE
[Symbol]	EXISTING CONTOUR
[Symbol]	PROPOSED CONTOUR
[Symbol]	PROPOSED SPOT ELEVATION
[Symbol]	PROPOSED FINISHED GRADE
[Symbol]	PROPOSED 5' WIDE STONE DUST TRAIL

SEE GRADING PLAN (SHEET 1 OF 2)  
FOR GRADING NOTES.



MATCHLINE (SEE GRADING PLAN SHEET 1 OF 2)

Drawings created by the author are not to be used for any other project without the written consent of the author. It is a violation of this law for any person to use the drawings of an engineer or land surveyor to alter any structure in any way or to erect any structure without the approval of the engineer or land surveyor. The author engineer or land surveyor shall not be held liable for any damages or injuries caused by the use of the drawings created by the author, and a specific description of the alteration.

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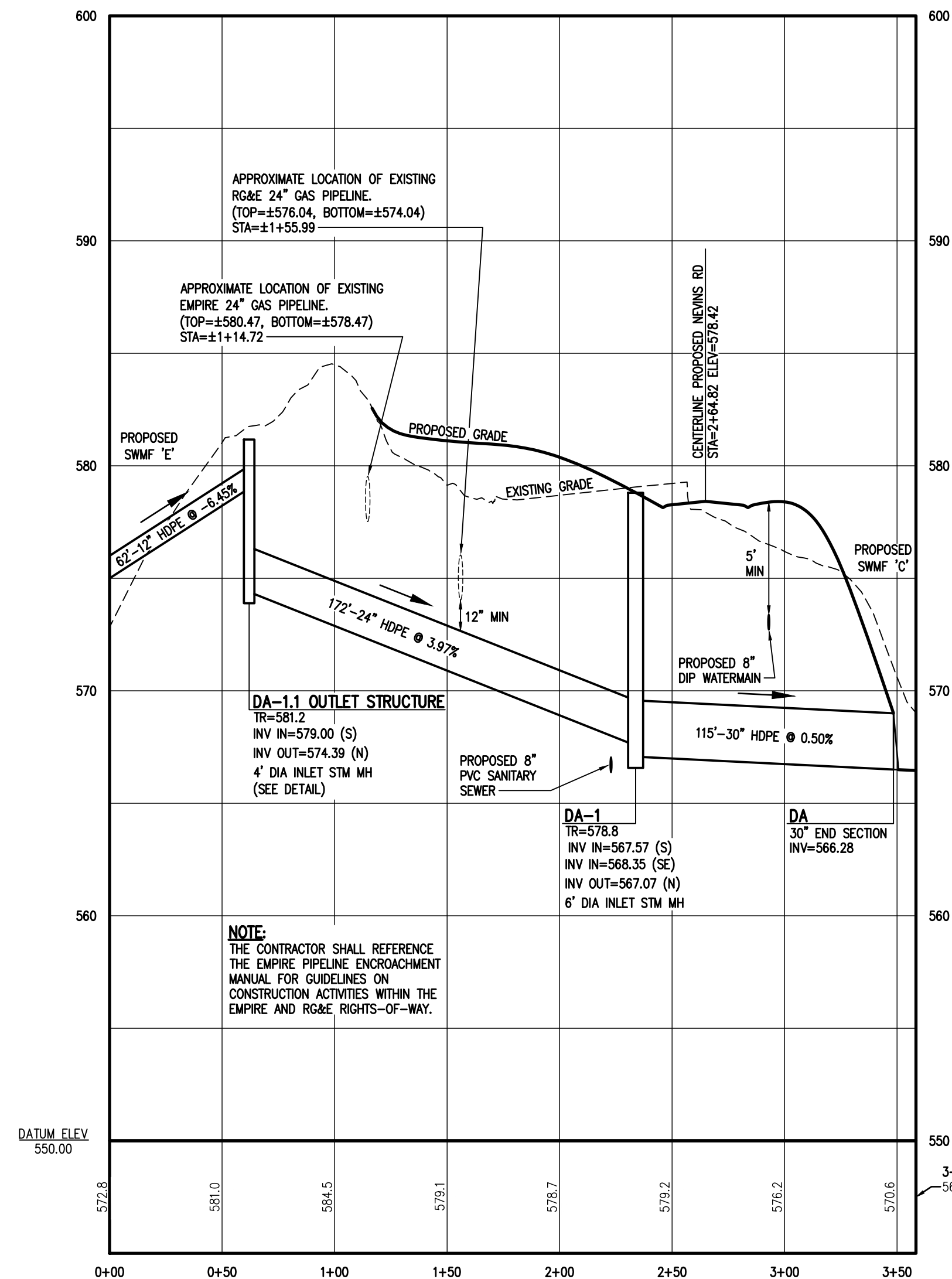
**BME ASSOCIATES**  
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11111 BURGESS LANE EAST  
LEHIGH RIDGE, NY 14643  
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PROJECT: LEHIGH RIDGE  
LOCATION: TOWN OF HENRIETTA, MONROE COUNTY, NEW YORK STATE  
CLIENT: FOOTBALL CLUB  
PROJECT ENGINEER: J. CHEKHOV  
PROJECT MANAGER: J. CHEKHOV  
DRAWING TITLE: OVERALL PRELIMINARY GRADING PLAN

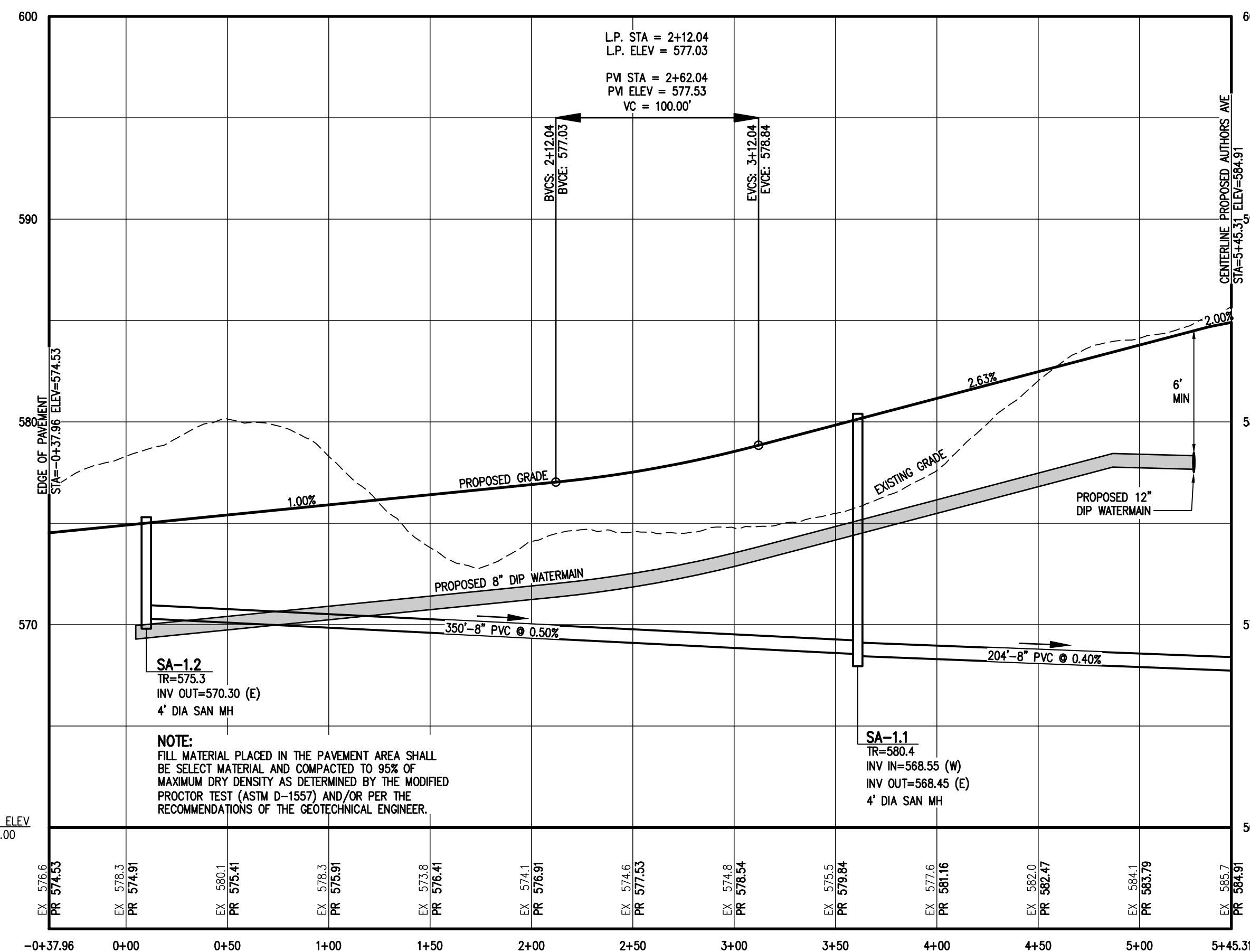
PROJECT NO. 2728  
DATE ISSUED: AUGUST 2021  
DRAWING NO. 18  
(SHEET 2 OF 2)



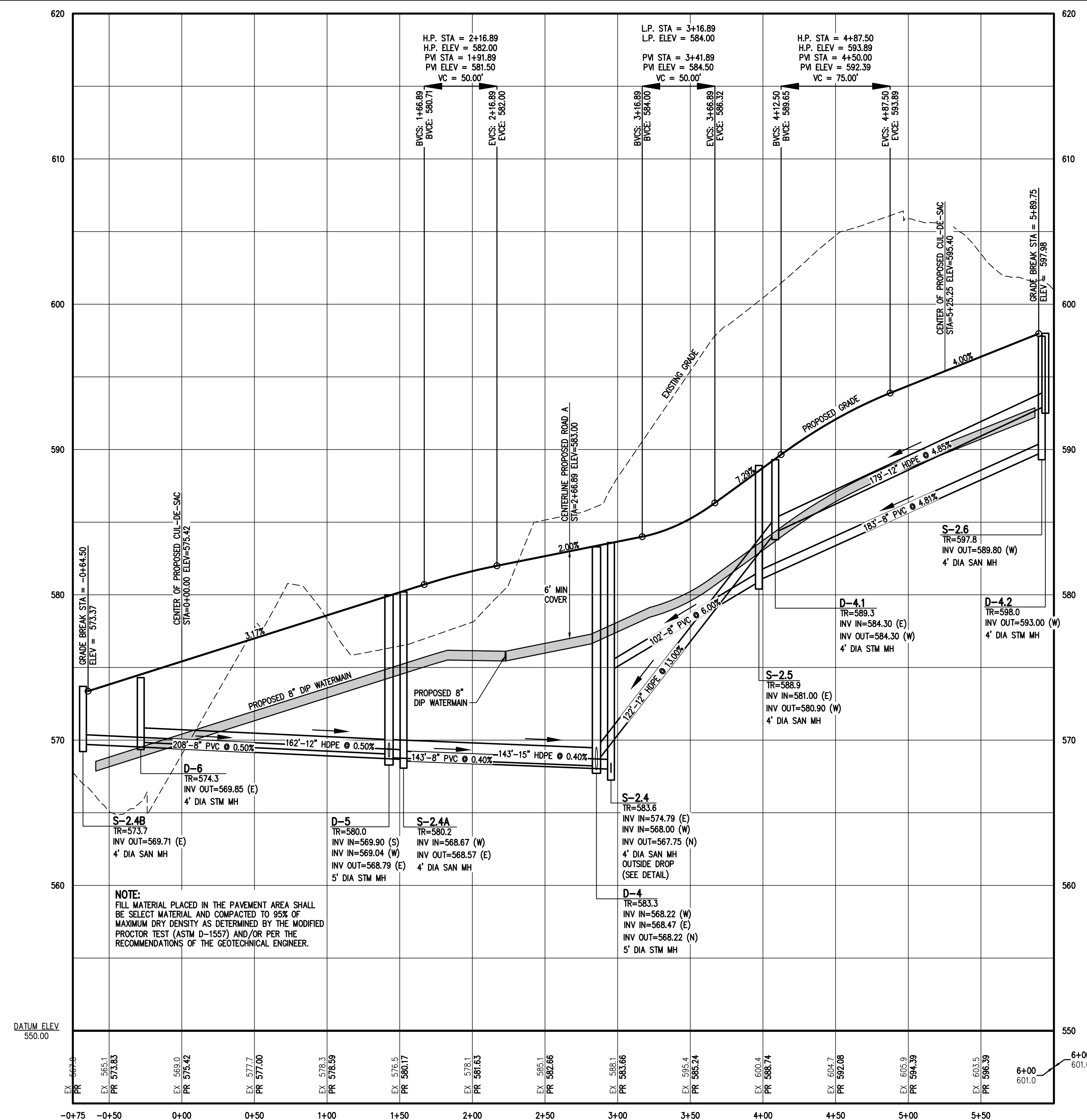




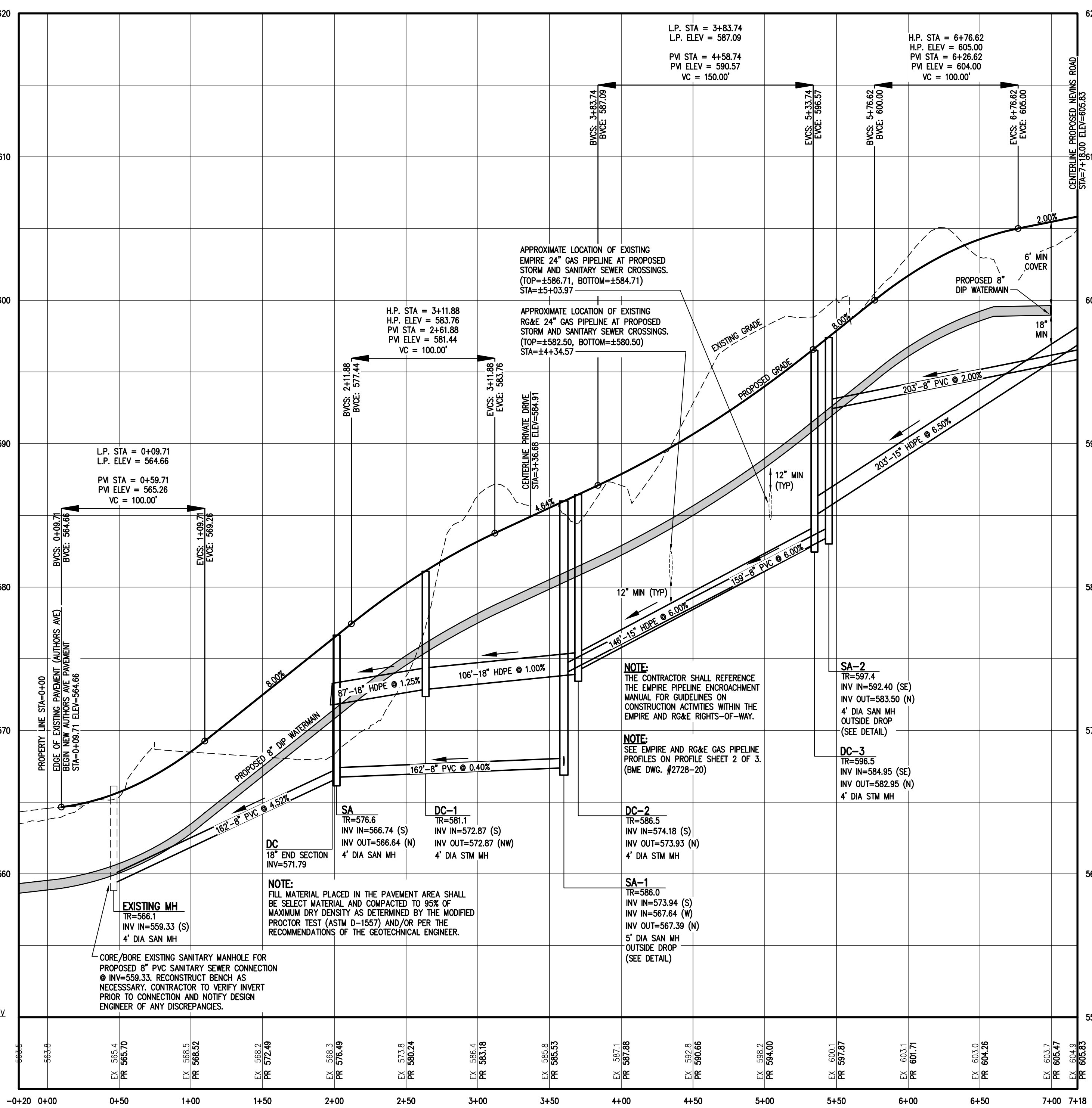
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(DA TO DA-1.1)**  
SCALE: HOR: 1"=50'  
VER: 1"=5'



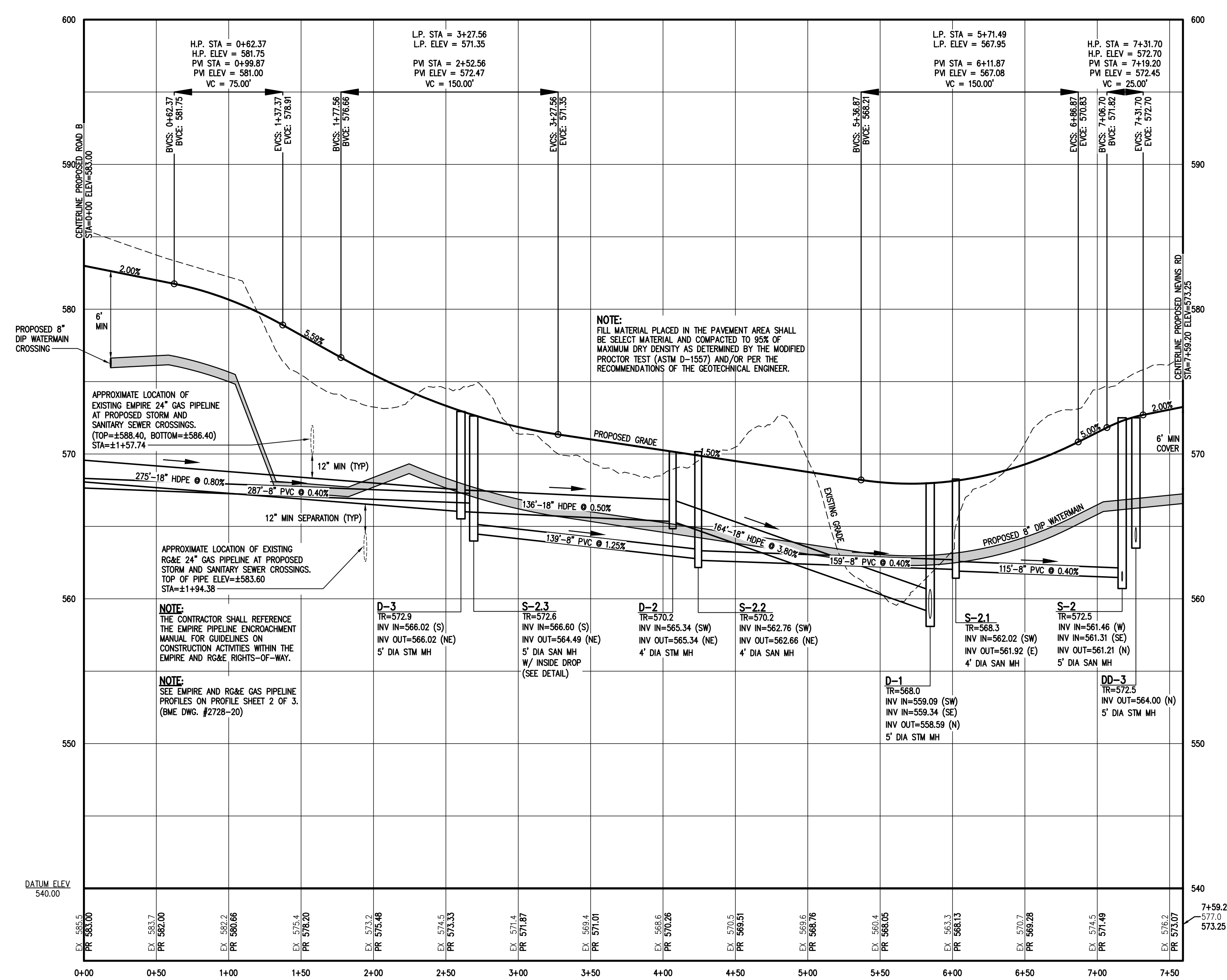
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SCALE: HOR: 1"=50'  
VER: 1"=5'



**PROPOSED ROAD 'B' PROFILE**  
SCALE: HOR: 1"=50'  
VER: 1"=5'



**PROPOSED AUTHORS AVENUE PROFILE**  
SCALE: HOR: 1"=50'  
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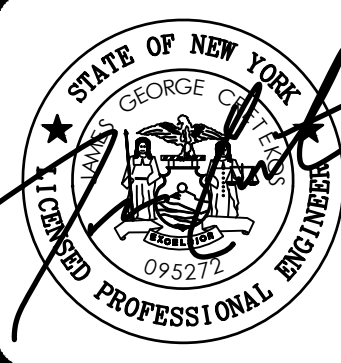
**PROPOSED ROAD 'A' PROFILE**  
SCALE: HOR: 1"=50'  
VER: 1"=5'

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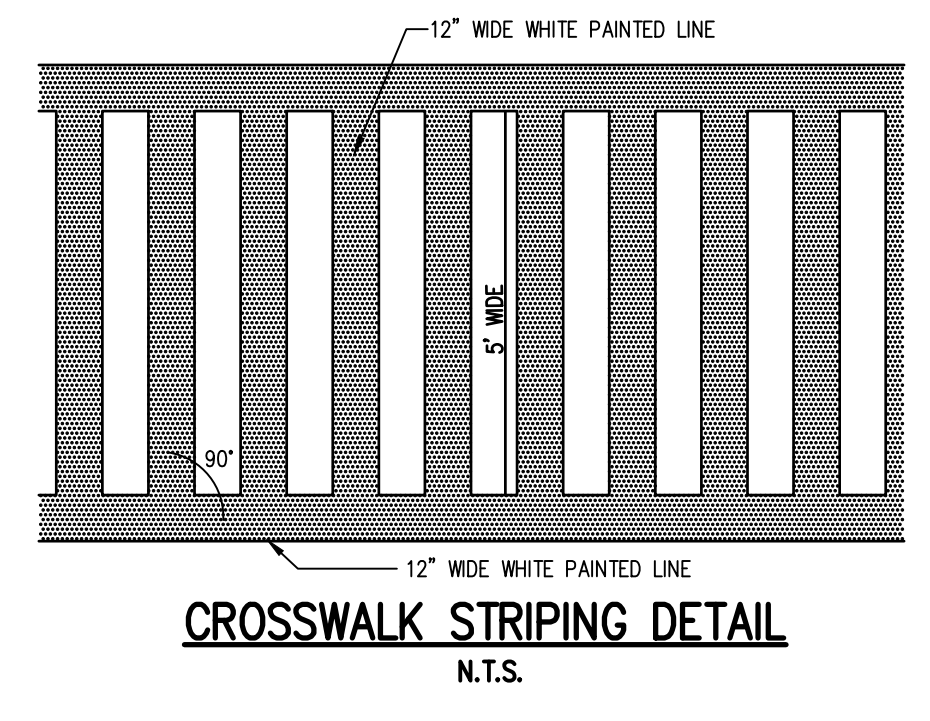
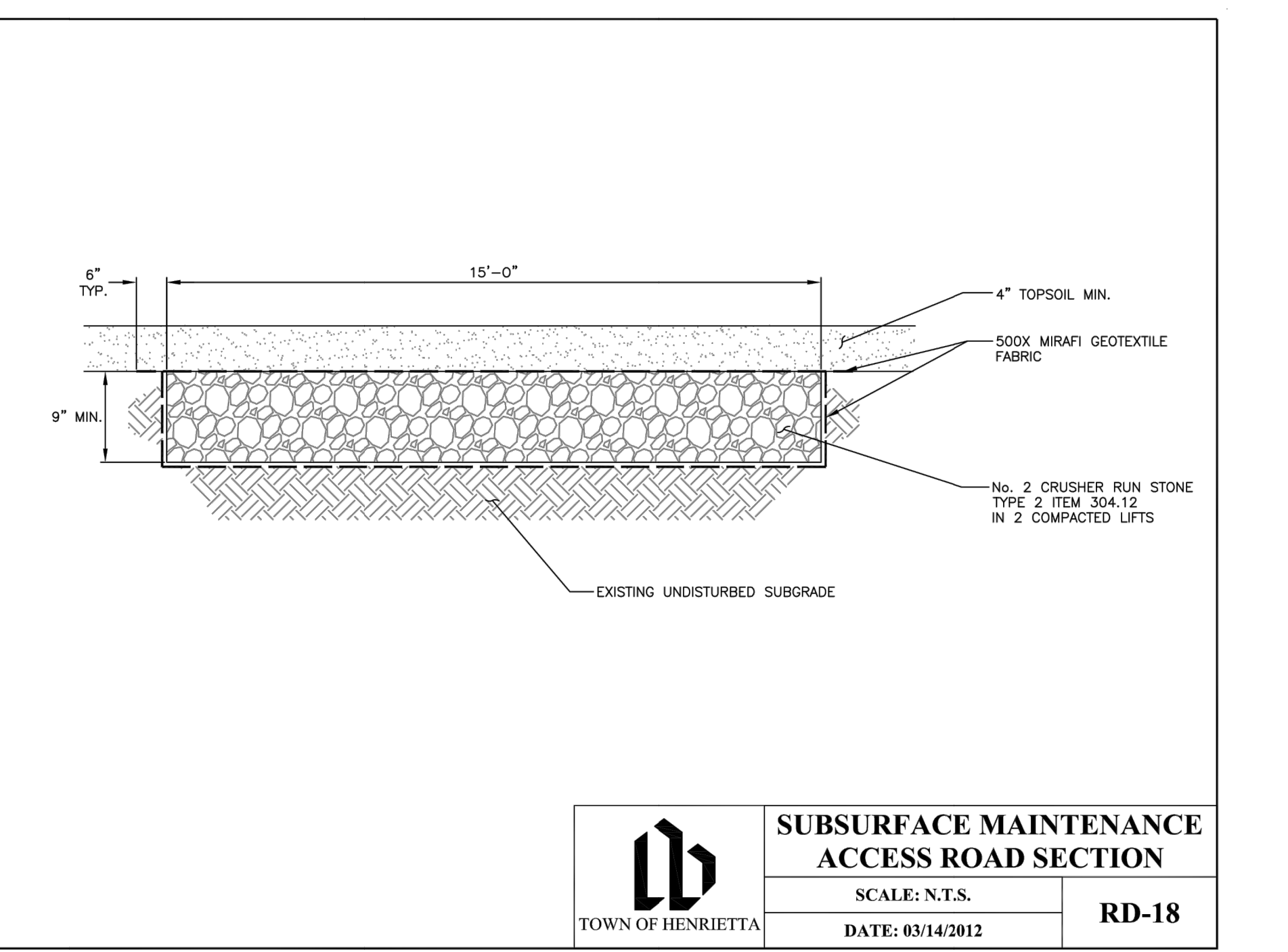
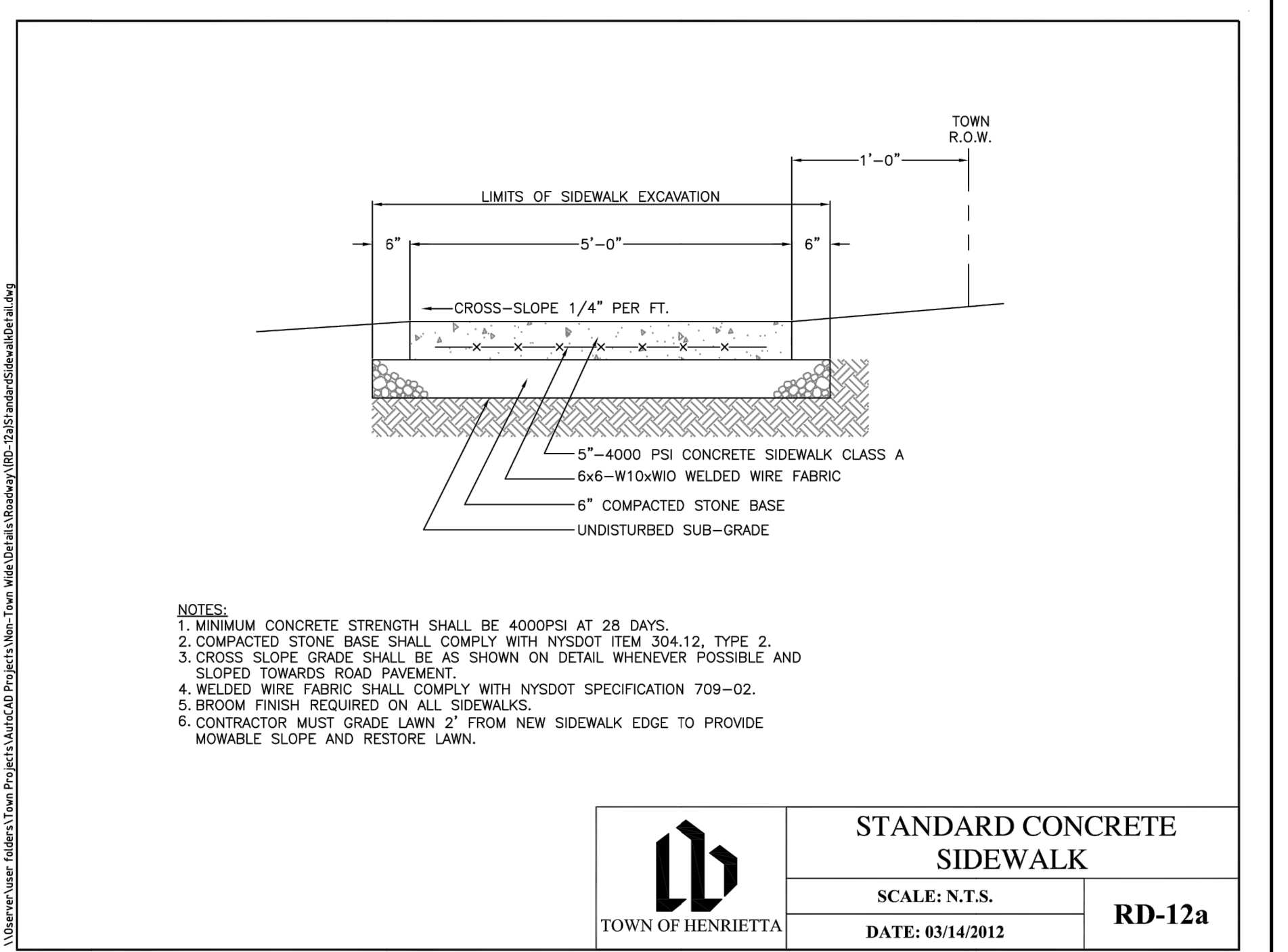
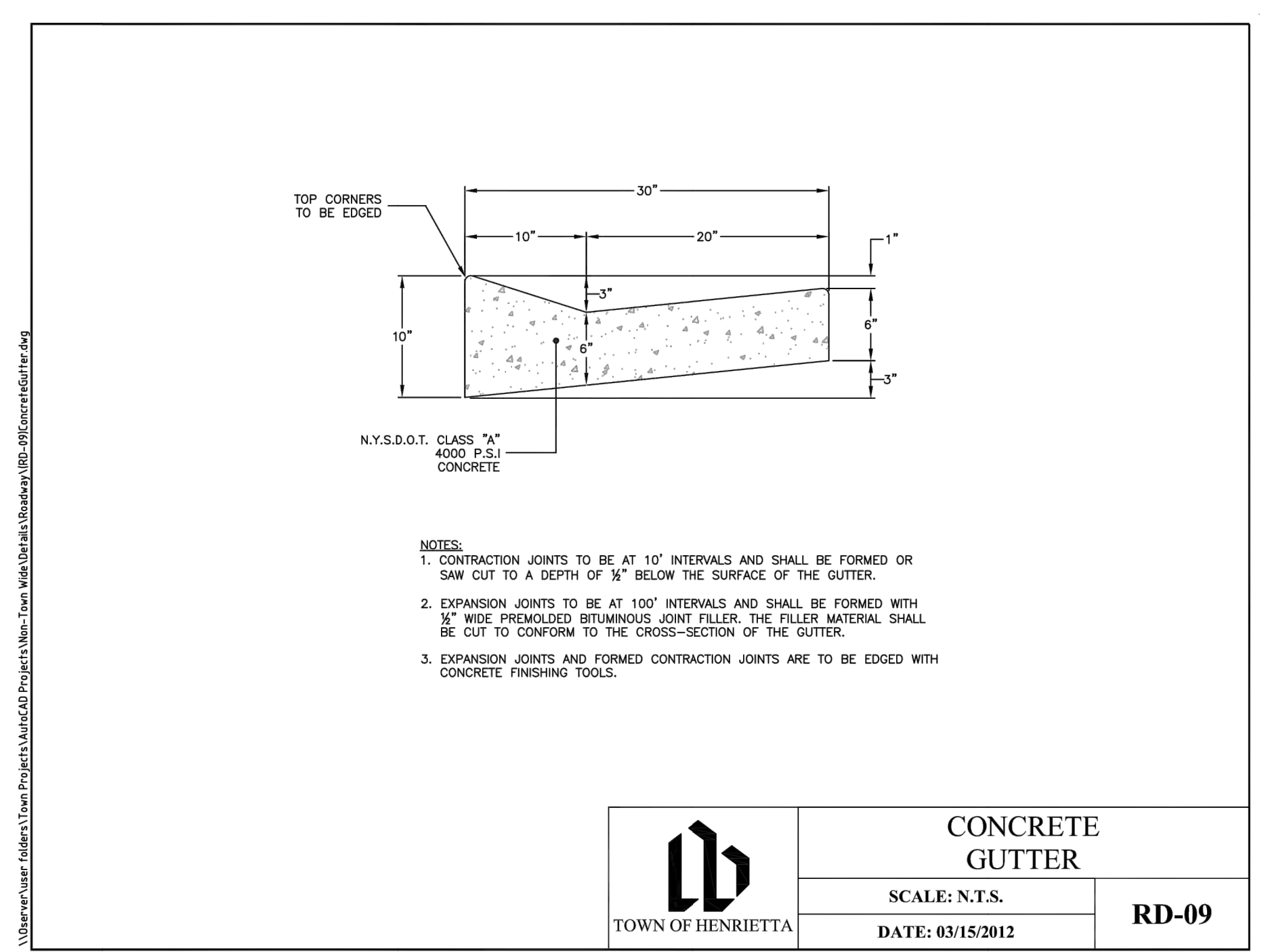
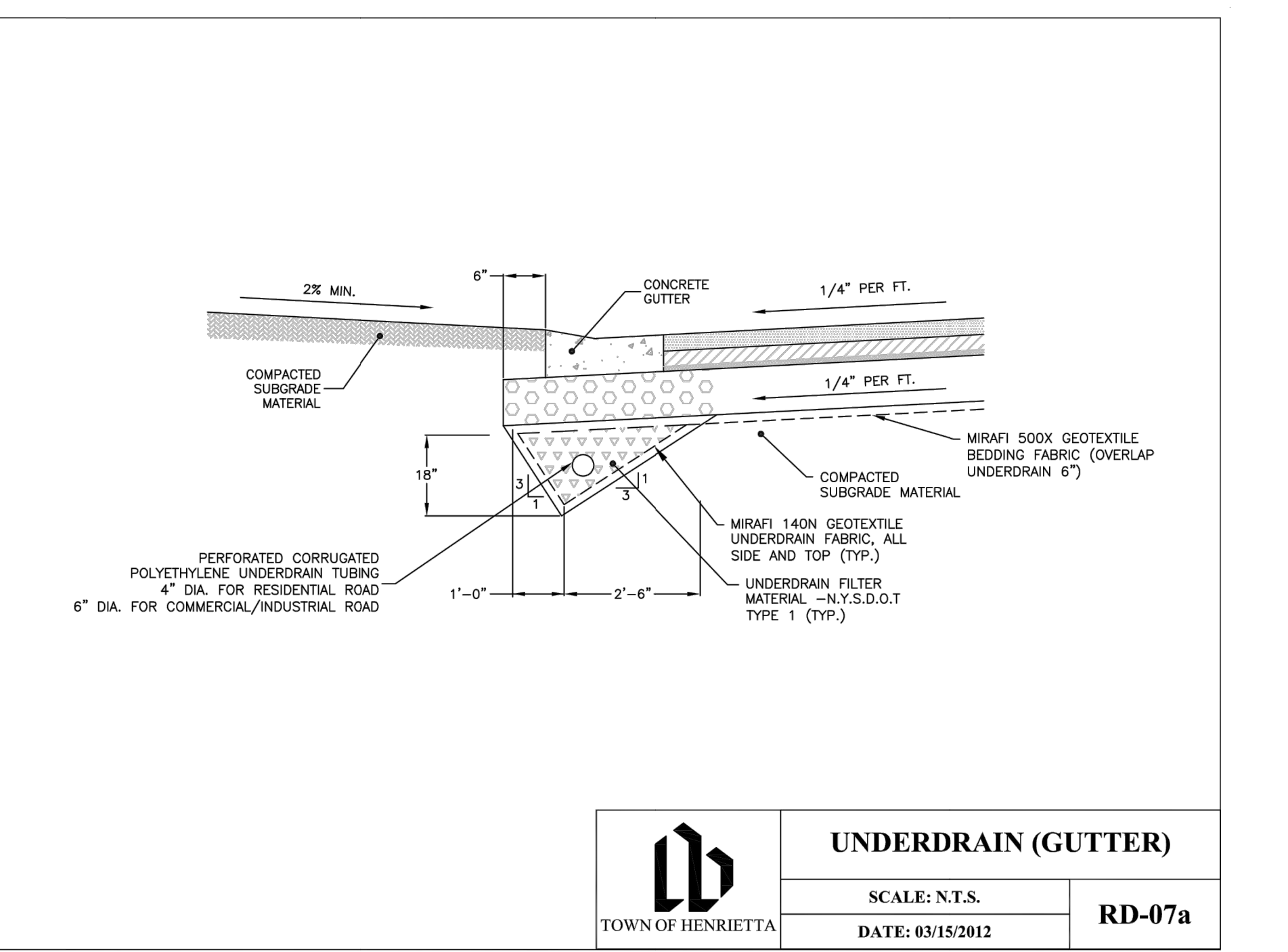
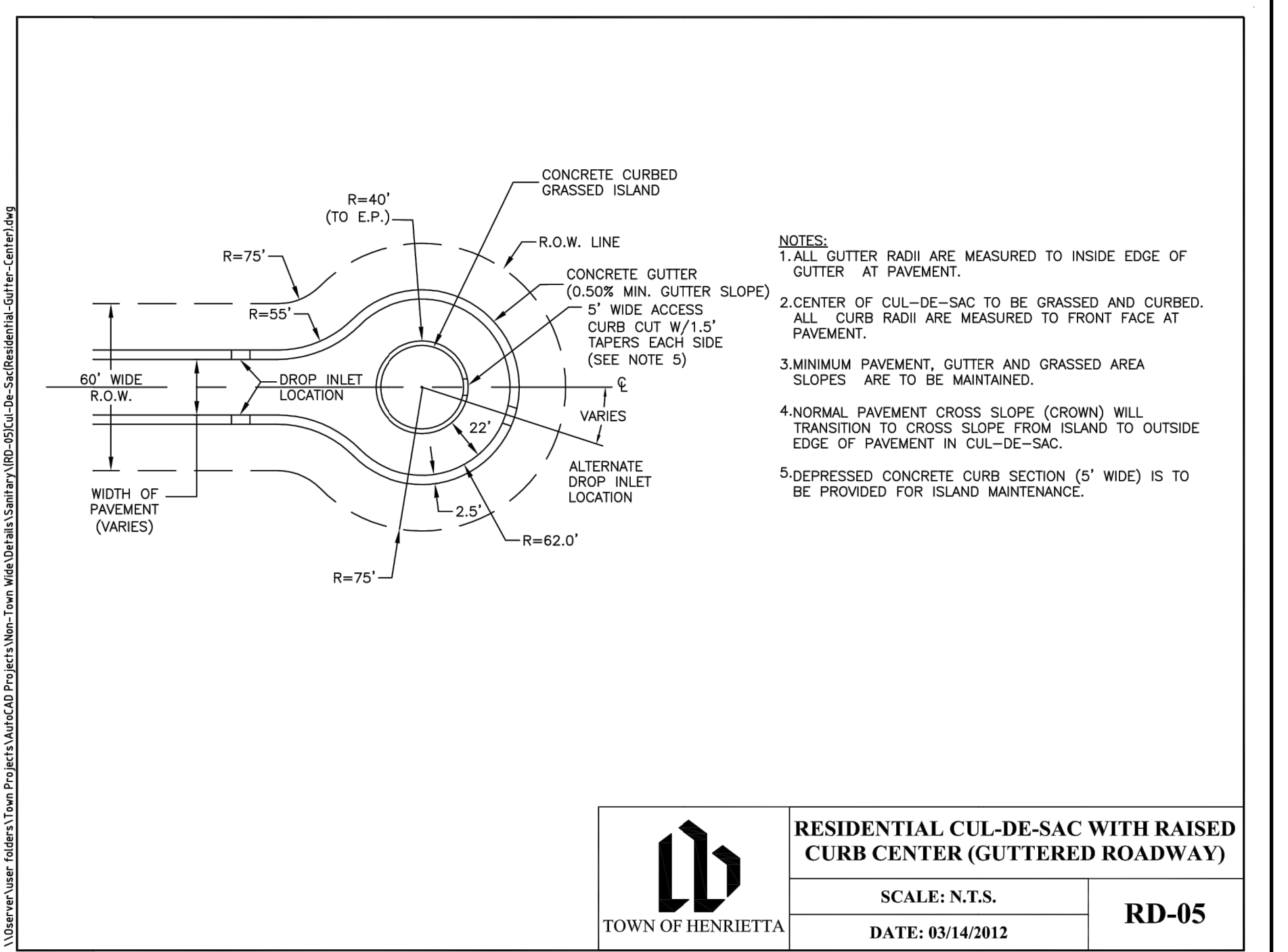
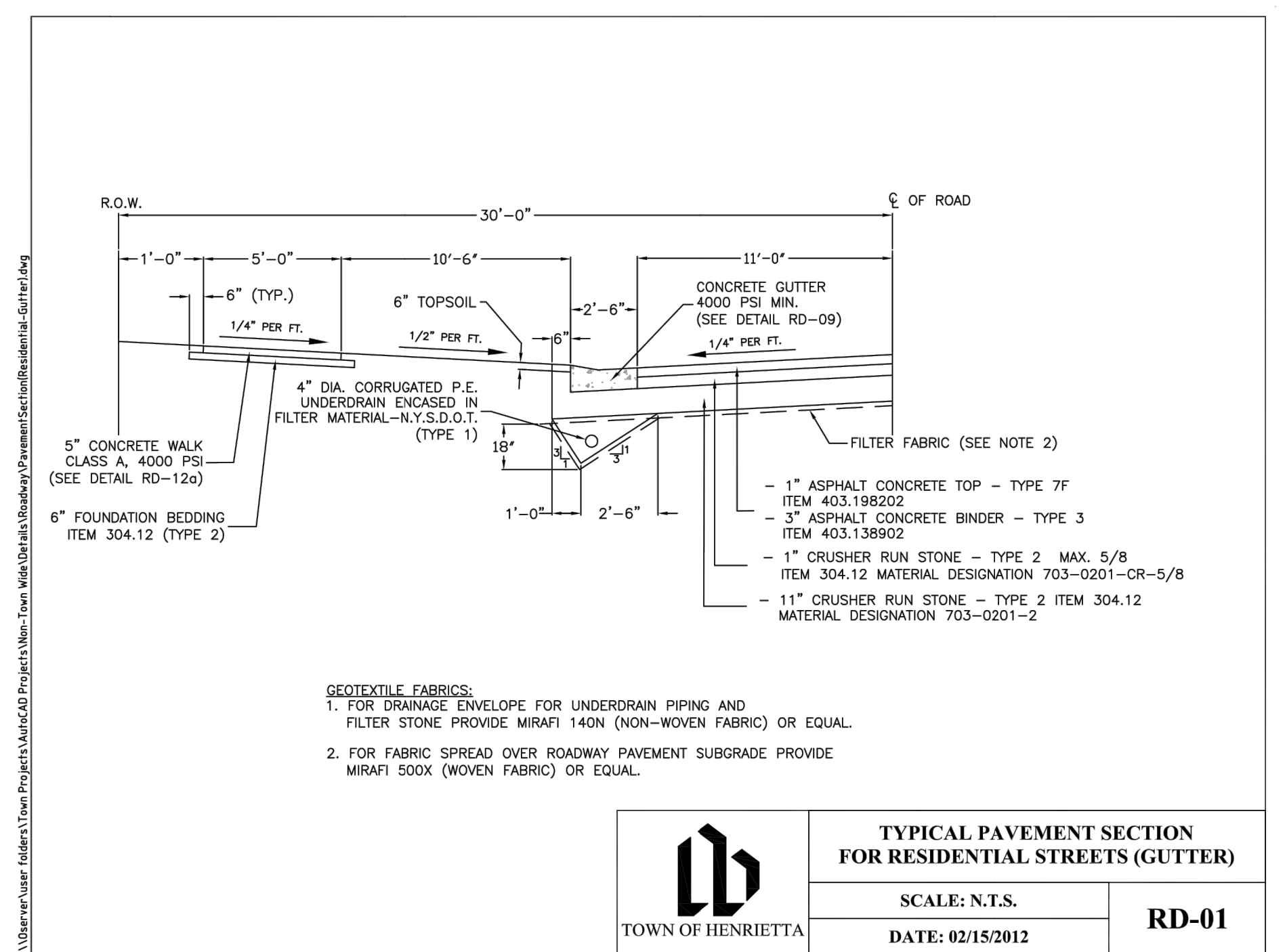
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2	REVISION PER TOWN AND AGENCY COMMENTS	4/7/22	RPB
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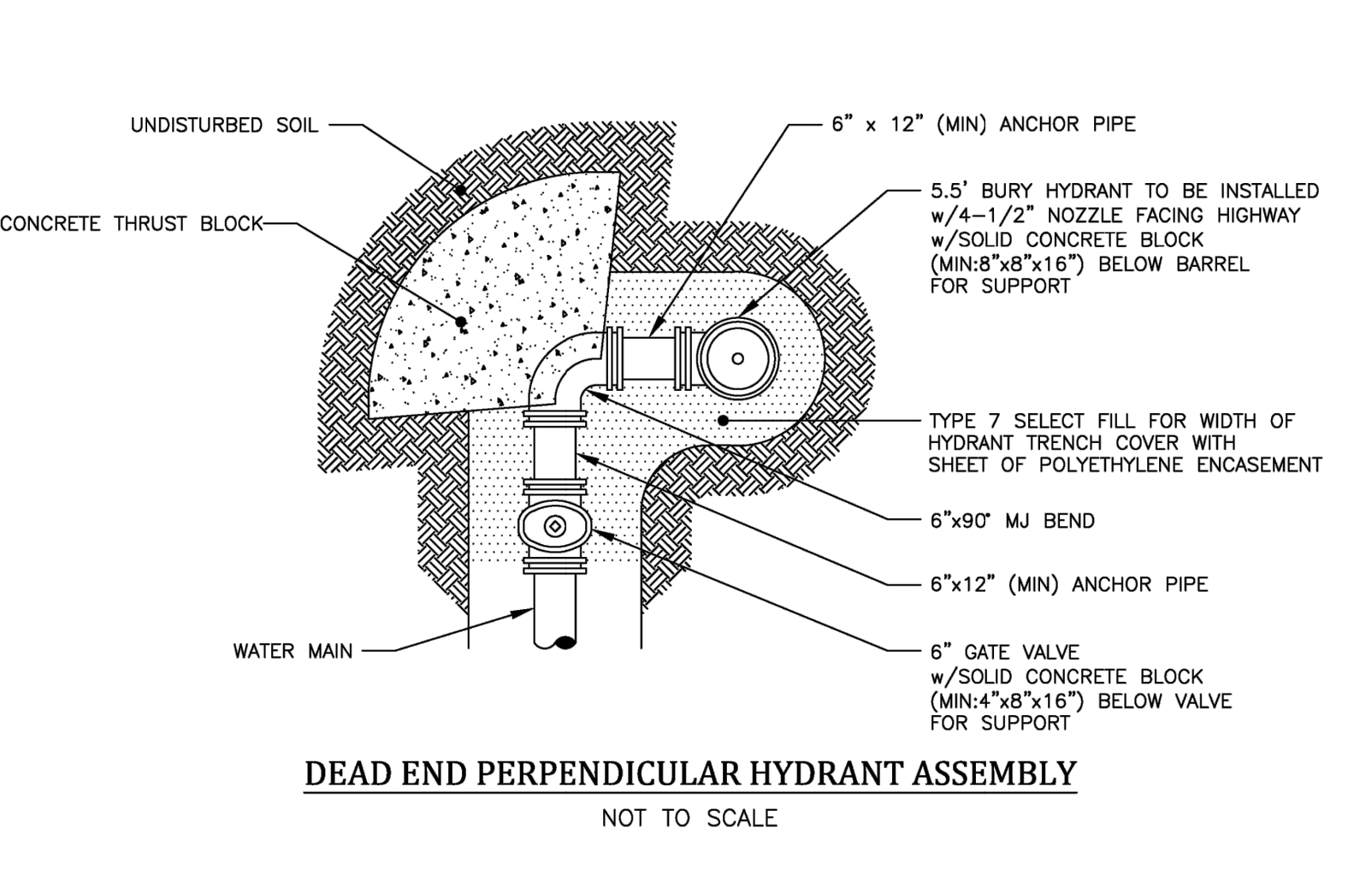
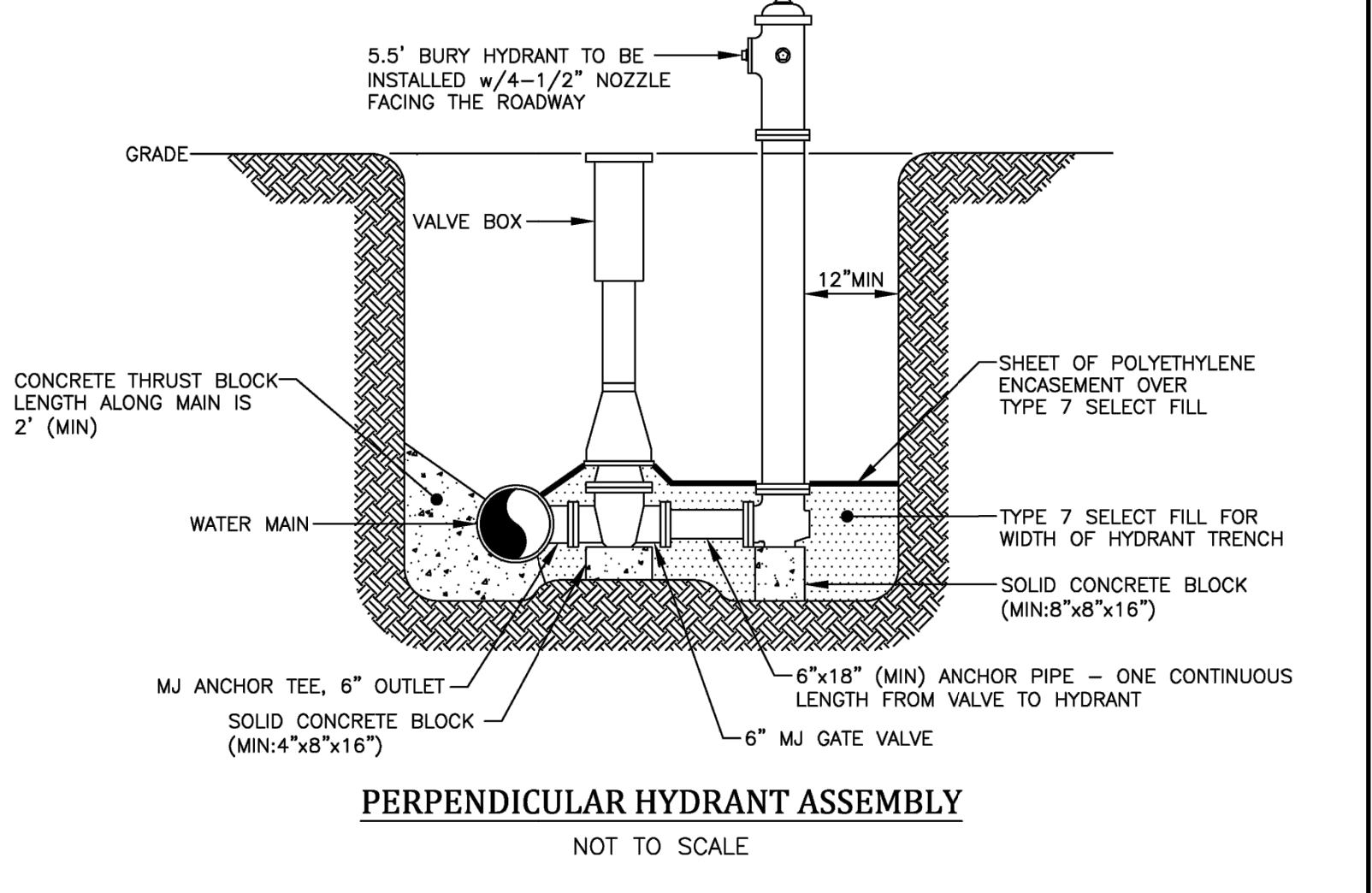
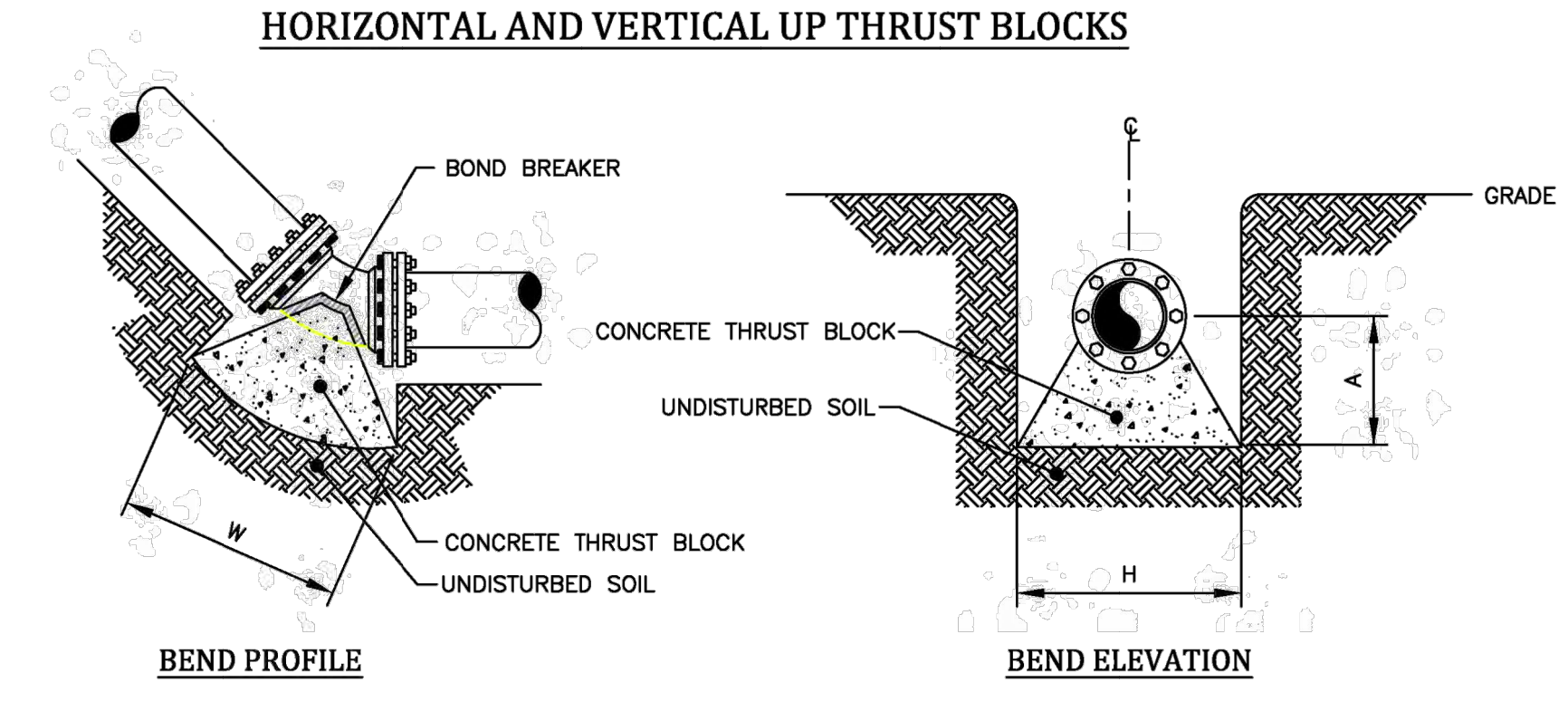


**LEHIGH RIDGE**  
TOWN OF BERKELA, MONROE COUNTY, NEW YORK STATE  
PROJECT: LEHIGH RIDGE  
LOCATION: LEHIGH RIDGE  
CLIENT: LEHIGH RIDGE  
PROJECT ENGINEER: J. CRETEKOS  
PROJECT MANAGER: J. CRETEKOS  
DRAWN BY: A. BEYER  
DATE ISSUED: AUGUST 2021  
SCALE: AS SHOWN  
PROJECT NO.: 2728  
DRAWING NO.: 2728



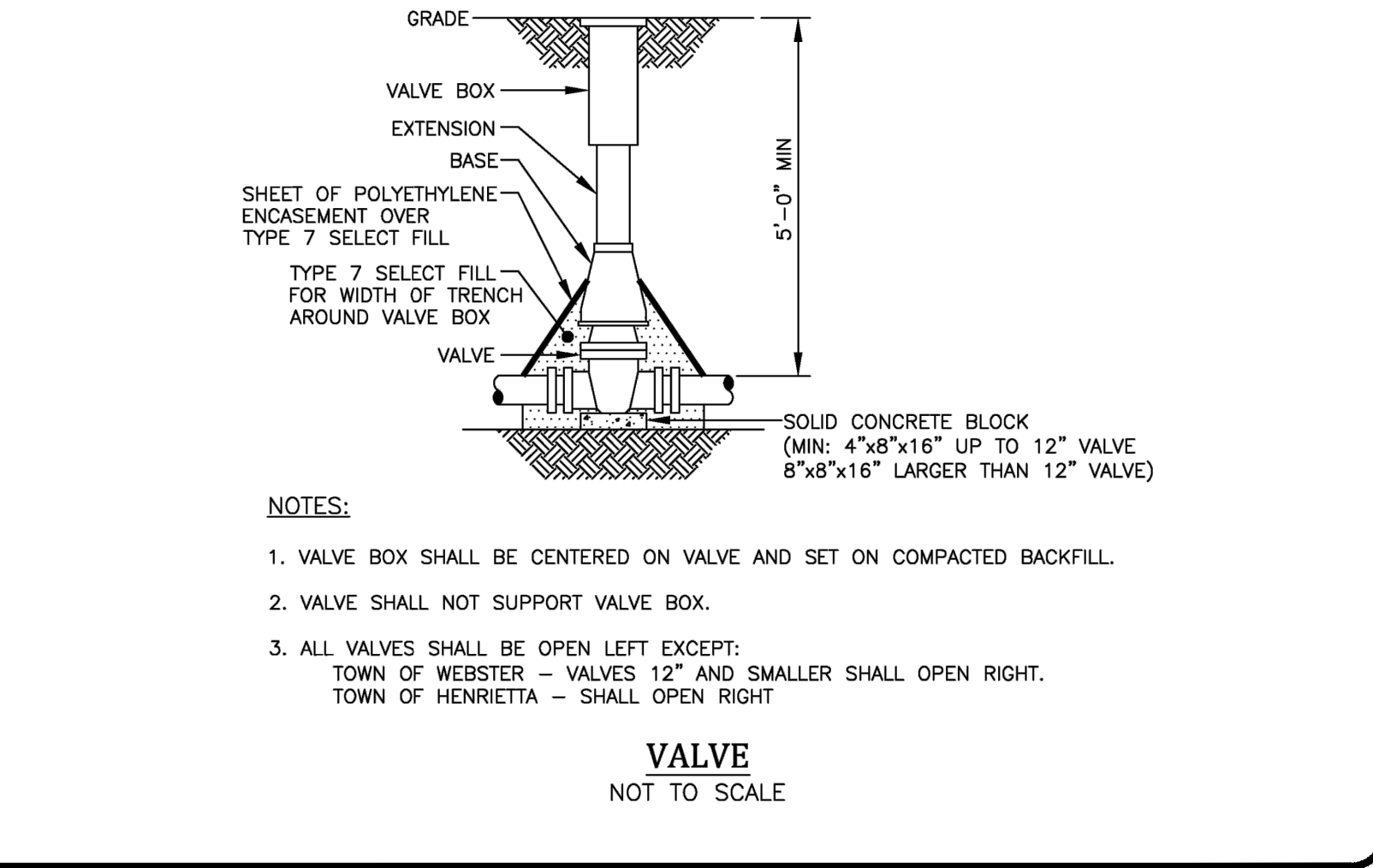
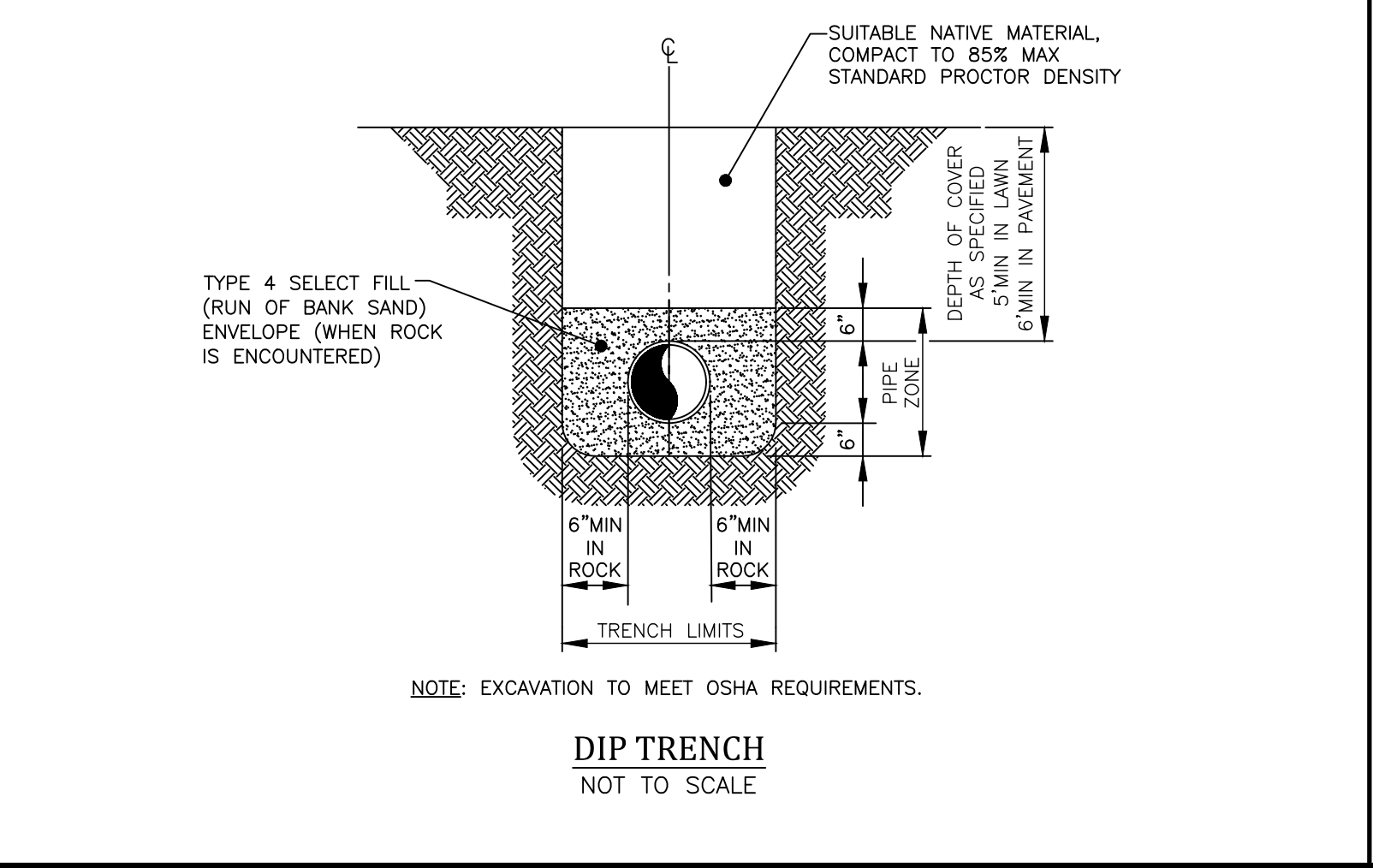
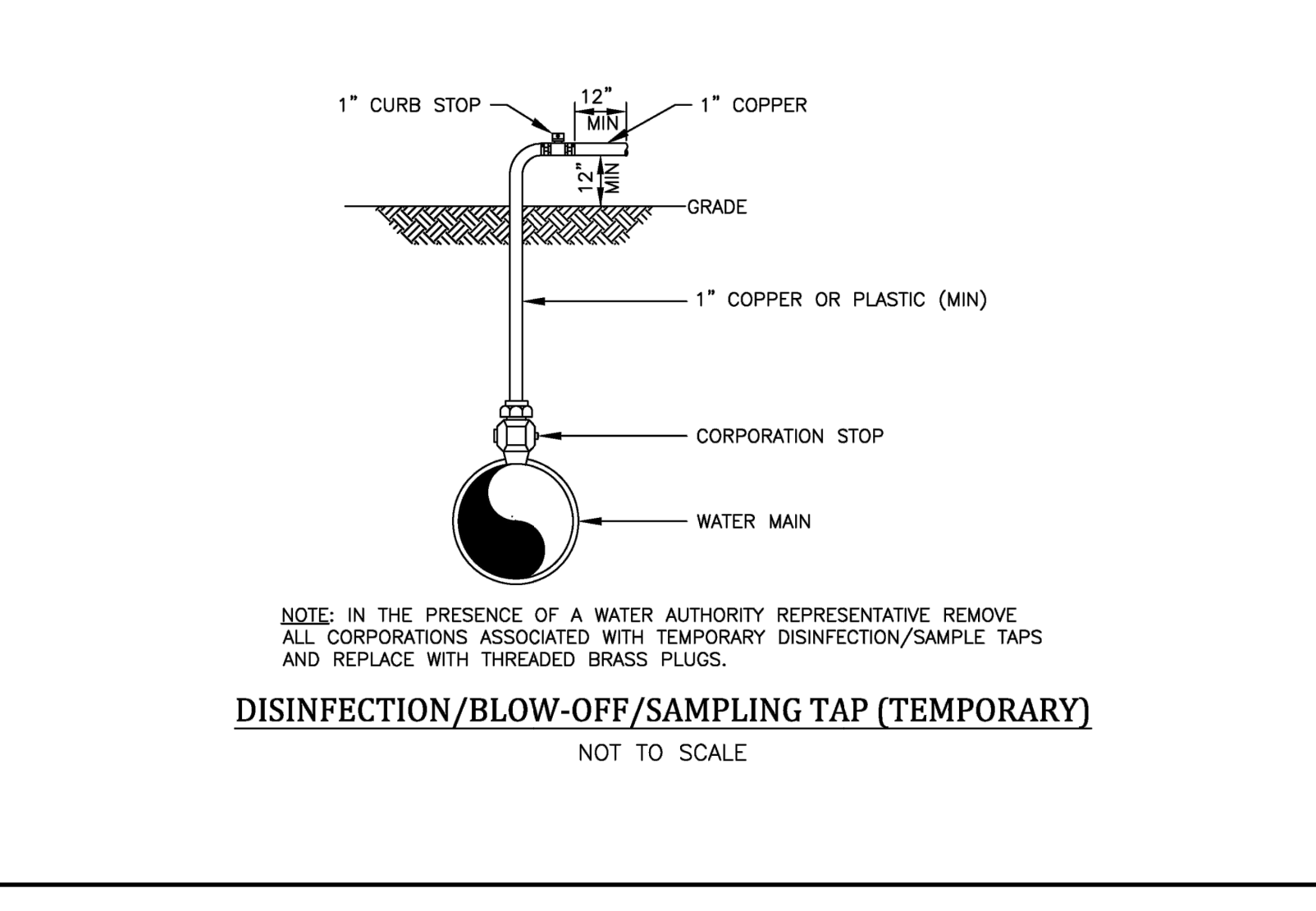
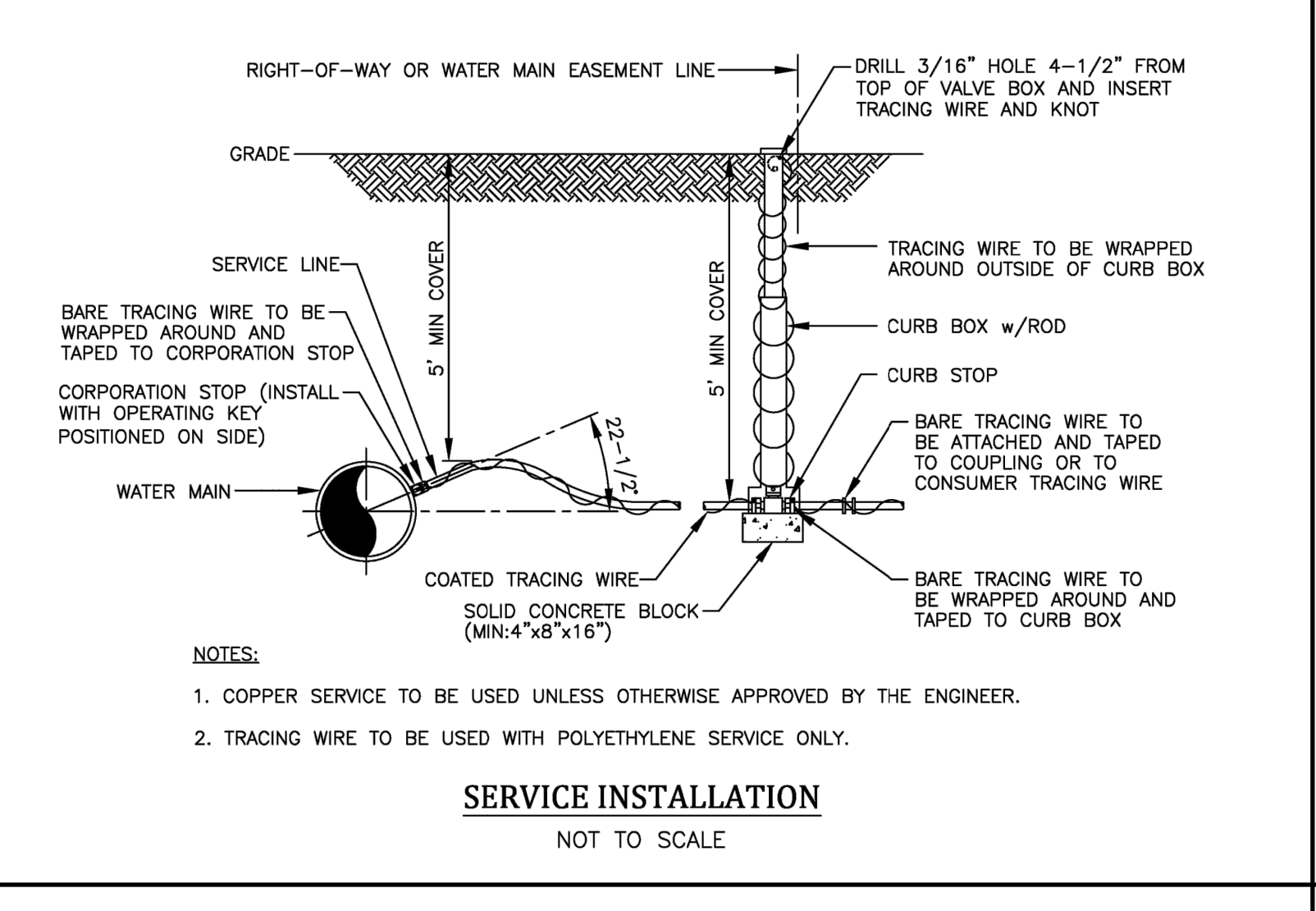
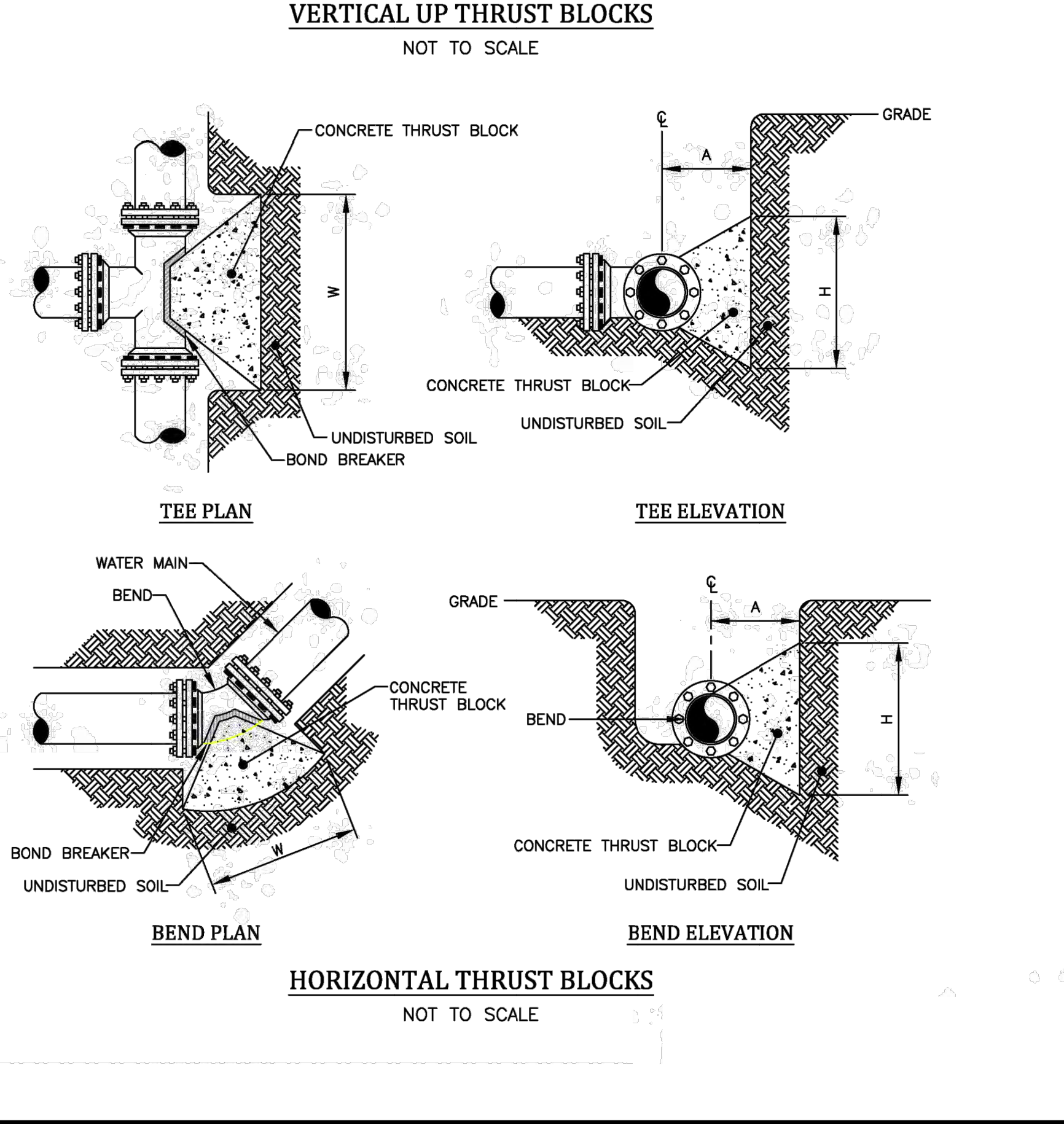
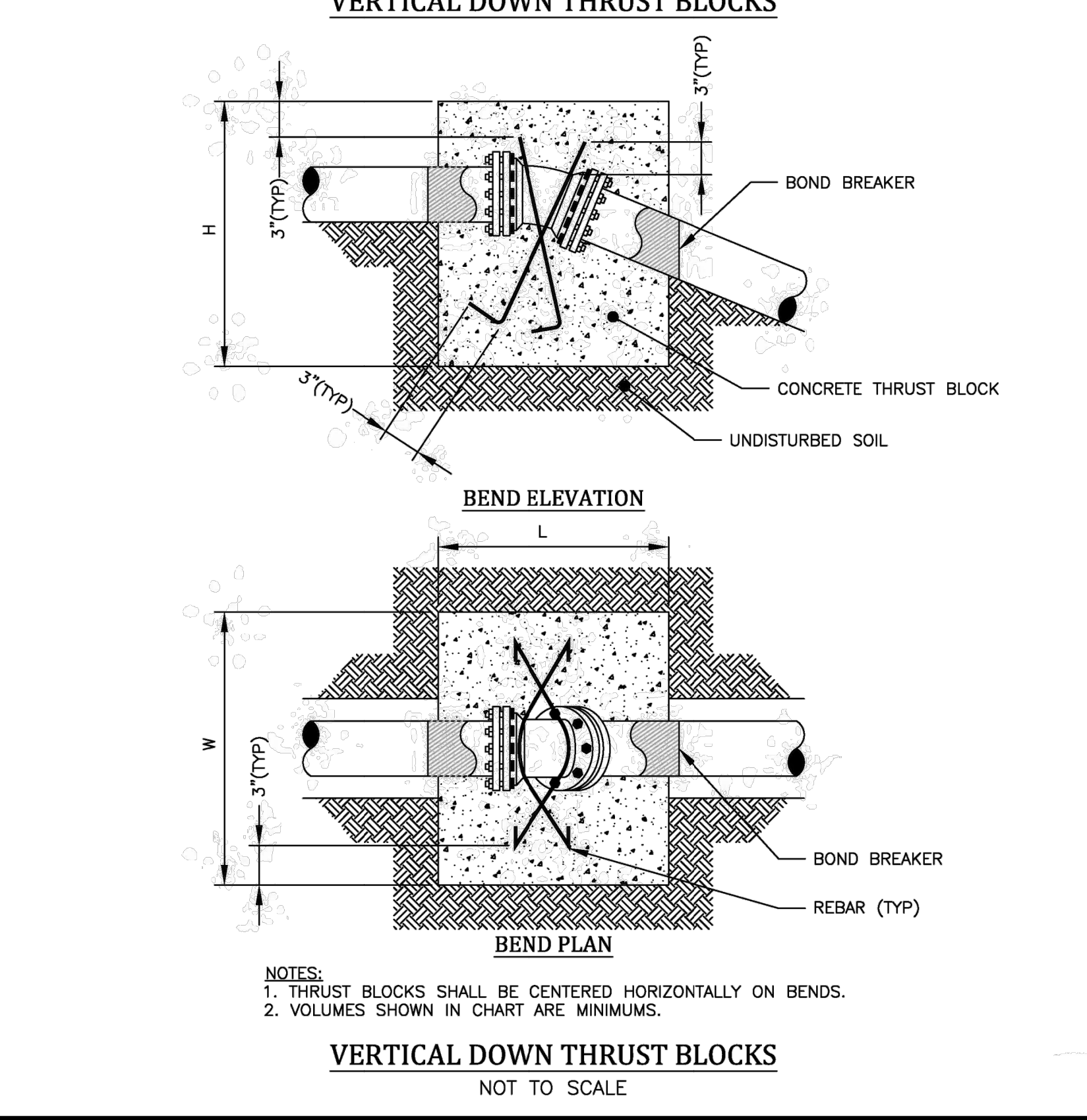
PIPE DIAMETER	BEND OR FITTING													
	11 1/2 DEGREE			22 1/2 DEGREE			45 DEGREE			90 DEGREE			TEE*, CAP OR PLUG	
	L (FT)	W (FT)	H (FT)	L (FT)	W (FT)	H (FT)	L (FT)	W (FT)	H (FT)	L (FT)	W (FT)	H (FT)		
8"	1.0	1.0	1.5	1.0	1.5	1.5	2.0	1.5	2.0	2.5	1.5	1.5	2.5	1.0
12"	1.0	1.5	1.5	1.5	2.0	1.5	2.0	3.0	1.5	2.5	4.0	1.5	2.0	3.5

\* SIZE BLOCK BASED ON BRANCH DIAMETER.  
SOIL BEARING STRENGTH - PSF  
PSI TEST PRESSURE



PIPE DIAMETER	BEND											
	11 1/2 DEGREE			22 1/2 DEGREE			45 DEGREE			90 DEGREE		
L (FT)	W (FT)	H (FT)	L (FT)	W (FT)	H (FT)	L (FT)	W (FT)	H (FT)	L (FT)	W (FT)	H (FT)	
8"	3.0	3.0	3.0	4.0	3.0	3.5	1.50	6.0	3.0	4.2	2.50	
12"	5.0	3.0	3.3	1.50	6.0	3.0	3.8	3.00	8.0	3.0	4.5	

SOIL BEARING STRENGTH - PSF  
PSI TEST PRESSURE



Drawing Information

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PHILIP BERGER, LICENSED PROFESSIONAL ENGINEER  
100 WEST 145TH STREET, 10TH FLOOR, NEW YORK, NY 10032  
WWW.BME1.COM



**LEHIGH RIDGE**  
TOWN OF HENRIETTA, WARREN COUNTY, NEW YORK STATE  
GEORGE J. BERGER, LICENSED PROFESSIONAL ENGINEER  
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PROJECT: LEHIGH RIDGE  
LOCATION: TOWN OF HENRIETTA, WARREN COUNTY, NEW YORK STATE  
CLIENT: LEHIGH RIDGE  
DRAWING TITLE: OVERALL PRELIMINARY DETAIL SHEET

PROJECT MANAGER: J. VARS  
PROJECT ENGINEER: J. CHEKOS  
DRAWN BY: A. BEYER  
SCALE: N.T.S.  
DATE ISSUED: AUGUST 2021  
PROJECT NO.: 2728  
DRAWING NO.: 22 (SHEET 1 OF 3)

**TYPICAL SANITARY BEDDING DETAILS**

SCALE: N.T.S. DATE: 11/15/2011 SA-01

NOTES:  
 1. ALL SANITARY SEWER PIPE SHALL BE 8" MINIMUM PIPE DIAMETER, POLYVINYL CHLORIDE PIPE (PVC SDR-35), BELL & SPIGOT TYPE & RUBBER GASKET.  
 2. ALL SANITARY LATERAL PIPE SHALL BE 4" MINIMUM PIPE DIAMETER, POLYVINYL CHLORIDE PIPE (PVC SDR-35), BELL & SPIGOT TYPE & RUBBER GASKET OR SCHEDULE 40.  
 3. SELECT EARTH SHALL BE SAND GRAVEL AND SIMILAR MATERIAL WHICH SHALL BE FREE FROM CLAY, LOAM, ORGANIC MATERIALS, FROZEN MATERIAL AND SHALL CONTAIN ONLY SMALL AMOUNTS OF STONE PEBBLES OR LUMPS OVER ONE INCH IN GREATEST DIMENSION BUT NONE OVER TWO INCHES IN GREATEST DIMENSION.  
 4. STONE ENCASEMENT SHALL MEAN APPROVED IMPORTED AGGREGATE MEETING THE REQUIREMENTS OF THE NYSDOT STANDARD SPECIFICATION, MAY 1, 2008 EDITION PAGES 7-14, SUBSECTION 703-0201 "CRUSHED STONE" PRIMARY SIZE OR A Mixture OF PRIMARY SIZES 1 AND 2.  
 5. CONCRETE SHALL BE CAST-IN-PLACE CLASS "A" MEETING NYSDOT SECTION 501 SPECIFICATIONS.

**TYPICAL SANITARY SEWER TRENCH DETAIL**

SCALE: N.T.S. DATE: 11/15/2011 SA-02

NOTES:  
 1. CONTRACTOR TO PROVIDE SAFE EXCAVATION BY SLOPING, SHEETING & BRACING PER OSHA SPECIFICATIONS.  
 2. SELECT GRANULAR FILL N.Y.S.D.O.T. ITEM 203.07 WITH 4" MAX. SIZE AGGREGATE TO BE COMPACTED IN 6" LIFTS.  
 3. STONE ENCASEMENT SHALL MEAN APPROVED IMPORTED AGGREGATE MEETING THE REQUIREMENTS OF THE NYSDOT STANDARD SPECIFICATION, MAY 1, 2008 EDITION PAGES 7-14, SUBSECTION 703-0201 "CRUSHED STONE" PRIMARY SIZE OR A Mixture OF PRIMARY SIZES 1 AND 2.  
 4. CONCRETE SHALL BE CAST-IN-PLACE CLASS "A" MEETING NYSDOT SECTION 501 SPECIFICATIONS.

**SANITARY MANHOLE DETAIL**

SCALE: N.T.S. DATE: 11/15/2011 SA-08

NOTES:  
 1. REFER TO MANHOLE INVERT CONFIGURATION & DIMENSIONS DETAIL FOR MANHOLE DIAMETER "A" OR "B".  
 2. ALL DETAILS LISTED APPLY TO BOTH TYPES OF MANHOLES.  
 3. PRECAST CONC. MANHOLE WALL & SLAB MINIMUM THICKNESS SHALL BE:  
 A. TOP SLAB 8" 8" 8"  
 B. RISER WALL 8" 8" 8"  
 C. BOTTOM SLAB 8" 8" 8"  
 4. MAXIMUM DISTANCE BETWEEN MANHOLES SHALL BE 400 FEET.

**SANITARY MANHOLE INVERT CONFIGURATIONS & DIMENSIONS**

SCALE: N.T.S. DATE: 11/15/2011 SA-09

NOTES:  
 1. DIMENSIONS A & B ARE GOVERNED BY OUTLET DIAMETER.  
 2. INVERT SLOPES:  
 A) STRAIGHT THROUGH PIPE-SLOPES SHALL BE A MINIMUM 0.1" DROP ACROSS MANHOLE.  
 B) 90° BENDS - PROVIDE MINIMUM 0.2" DROP ACROSS MANHOLE.  
 C) WHERE TWO OR MORE PIPES ENTER ABOVE WILL DETERMINE THE OUTLET ELEVATION.  
 D) WHERE PIPES ARE OF DIFFERENT SIZE, SLOPE SHALL BE AS DETERMINED BY CONTRACT PLANS.

**SANITARY MANHOLE FRAME AND COVER**

SCALE: N.T.S. DATE: 11/15/2011 SA-10

NOTES:  
 1. MATERIAL SHALL BE GRAY CAST IRON CONFORMING TO A.S.T.M. A48 (LATEST REVISION) CLASS 308.  
 2. HEAVY DUTY CASTING SHALL BE DESIGNED FOR A.A.S.T.M. H20-16 WHEEL LOADS.  
 3. THE STANDARD CASTING SHALL BE MODEL NO. 1032 & WATER TIGHT CASTING MODEL NO. 8545 AS MANUFACTURED BY SYRACUSE CASTING SALES CORP. OR APPROVED EQUAL.

**SANITARY SEWER CONNECTION TO EXISTING MANHOLE**

SCALE: N.T.S. DATE: 11/15/2011 SA-12

NOTES:  
 1. THE CROWN OF THE NEW SEWER SHALL NOT BE LOWER THAN THE CROWN OF THE EXISTING MAIN SEWER. THE INVERT OF THE NEW SEWER SHALL BE CONSTRUCTED AT LEAST 3" ABOVE THE EXISTING MAIN SEWER INVERT.  
 2. EXISTING MANHOLE STRUCTURE SHALL BE SUFFICIENTLY BRACED AND PROTECTED TO PREVENT ANY SHIFTING OR DAMAGE TO THE MANHOLE.  
 3. THE EXISTING MANHOLE BASE MAY BE ROUND OR SQUARE OR CAST-IN-PLACE CONCRETE, DEPENDING ON HOW THE MANHOLE WAS CONSTRUCTED.  
 4. CORE DIAMETER HOLE TO ACCOMMODATE EPOXY SAND COLLAR HUB (P.V.C.) OR P.V.C. EMBOSSED INTO MANHOLE AND SEALED WITH EPOXY MORTAR DURAL 33 OR FLEXULITH GEL. NO IMPACT DRILLS WILL BE ALLOWED TO BE USED FOR MAKING NEW HOLES.  
 5. THE INTERIOR OF SANITARY MANHOLE BASE SHALL BE COATED WITH 2 COATS OF SIKAGARD 62 SPRINKLE SILICA SAND ON TOP OF BENCHMARKS. ALL OTHER SURFACES SHALL HAVE 2 COATS KOPPERS SUPER SERVICE BLACK.  
 6. PIPE ENTERING INTO SANITARY MANHOLE SHALL NOT EXCEED 90 DEGREES ALIGNMENT AGAINST EXISTING SANITARY SEWER MAIN FLOW.  
 7. CORED OPENINGS IN MANHOLE RISER SECTIONS SHALL BE NOT LESS THAN 6" FROM A RISER JOINT.  
 8. THE TOWN SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF CONSTRUCTION FOR INSPECTION OF CONNECTION.

**INSIDE DROP MANHOLE**

SCALE: N.T.S. DATE: 11/15/2011 SA-13a

NOTES:  
 1. ALL STANDARD MANHOLE SPECIFICATIONS APPLY TO THIS MANHOLE.  
 2. CORE DIAMETER HOLE TO ACCOMMODATE EPOXY SAND COLLAR HUB (P.V.C.) OR P.V.C. EMBOSSED INTO MANHOLE AND SEALED WITH EPOXY MORTAR DURAL 33 OR FLEXULITH GEL. NO IMPACT DRILLS WILL BE ALLOWED TO BE USED FOR MAKING NEW HOLES.  
 3. A SANITARY LATERAL CONNECTION MUST BE APPROVED BY TOWN ENGINEER.  
 4. CONCRETE BENCHMARK SLOPE 1/2" FT.

**TYPICAL STORM PIPE BEDDING DETAILS**

SCALE: N.T.S. DATE: 11/15/2011 ST-01

NOTES:  
 1. ALL STORM SEWER PIPE SHALL BE 12" MINIMUM PIPE DIAMETER, POLYVINYL CHLORIDE PIPE (PVC SDR-35) OR HEAVY DUTY CORRUGATED POLYETHYLENE (PE) SMOOTH INNER WALL TYPE D BELL & SPIGOT TYPE & RUBBER GASKET.  
 2. ALL STORM LATERAL PIPE SHALL BE 4" MINIMUM PIPE DIAMETER, POLYVINYL CHLORIDE PIPE (PVC SDR-35), BELL & SPIGOT TYPE & RUBBER GASKET OR SCHEDULE 40.  
 3. SELECT EARTH SHALL BE SAND GRAVEL AND SIMILAR MATERIAL WHICH SHALL BE FREE FROM CLAY, LOAM, ORGANIC MATERIAL, DEBRIS, FROZEN MATERIAL AND SHALL CONTAIN ONLY SMALL AMOUNTS OF STONE PEBBLES OR LUMPS OVER ONE INCH IN GREATEST DIMENSION BUT NONE OVER TWO INCHES IN GREATEST DIMENSION.  
 4. STONE ENCASEMENT SHALL MEAN APPROVED IMPORTED AGGREGATE MEETING THE REQUIREMENTS OF THE NYSDOT STANDARD SPECIFICATION, MAY 1, 2008 EDITION PAGES 7-14, SUBSECTION 703-0201 "CRUSHED STONE" PRIMARY SIZE OR A Mixture OF PRIMARY SIZES 1 AND 2.  
 5. CONCRETE SHALL BE CAST-IN-PLACE CLASS "A" MEETING NYSDOT SECTION 501 SPECIFICATIONS.

**TYPICAL STORM SEWER TRENCH DETAIL**

SCALE: N.T.S. DATE: 11/15/2011 ST-02

NOTES:  
 1. CONTRACTOR TO PROVIDE SAFE EXCAVATION BY SLOPING, SHEETING & BRACING PER OSHA SPECIFICATIONS.  
 2. SELECT GRANULAR FILL N.Y.S.D.O.T. ITEM 203.07 WITH 4" MAX. SIZE AGGREGATE TO BE COMPACTED IN 6" LIFTS.  
 3. STONE ENCASEMENT SHALL MEAN APPROVED IMPORTED AGGREGATE MEETING THE REQUIREMENTS OF THE NYSDOT STANDARD SPECIFICATION, MAY 1, 2008 EDITION PAGES 7-14, SUBSECTION 703-0201 "CRUSHED STONE" PRIMARY SIZE OR A Mixture OF PRIMARY SIZES 1 AND 2.  
 4. CONCRETE SHALL BE CAST-IN-PLACE CLASS "A" MEETING NYSDOT SECTION 501 SPECIFICATIONS.

**PRECAST STORM MANHOLE DETAIL**

SCALE: N.T.S. DATE: 11/15/2011 ST-08

NOTES:  
 1. REFER TO MANHOLE INVERT CONFIGURATION & DIMENSIONS DETAIL FOR MANHOLE DIAMETERS "A" OR "B".  
 2. PRECAST CONC. MANHOLE WALL & SLAB MINIMUM THICKNESS SHALL BE:  
 A. TOP SLAB 8" 8" 8"  
 B. RISER WALL 8" 8" 8"  
 C. BOTTOM SLAB 8" 8" 8"

**STORM MANHOLE INVERT CONFIGURATIONS & DIMENSIONS**

SCALE: N.T.S. DATE: 11/15/2011 ST-10

NOTES:  
 1. DIMENSIONS A & B ARE GOVERNED BY OUTLET DIAMETER.  
 2. INVERT SLOPES:  
 A) STRAIGHT THROUGH PIPE-SLOPES SHALL BE A MINIMUM 0.1" DROP ACROSS MANHOLE.  
 B) 90° BENDS - PROVIDE MINIMUM 0.2" DROP ACROSS MANHOLE.  
 C) WHERE TWO OR MORE PIPES ENTER ABOVE WILL DETERMINE THE OUTLET ELEVATION.  
 D) WHERE PIPES ARE OF DIFFERENT SIZE, SLOPE SHALL BE AS DETERMINED BY CONTRACT PLANS & DETAILS.

**STORM MANHOLE FRAME AND COVER**

SCALE: N.T.S. DATE: 11/15/2011 ST-11

NOTES:  
 1. MATERIAL SHALL BE GRAY CAST IRON CONFORMING TO A.S.T.M. A48 (LATEST REVISION) CLASS 308.  
 2. HEAVY DUTY CASTING SHALL BE DESIGNED FOR A.A.S.T.M. H20-16 WHEEL LOADS.  
 3. THE STANDARD CASTING SHALL BE MODEL NO. 1032 & WATER TIGHT CASTING MODEL NO. 8545 AS MANUFACTURED BY SYRACUSE CASTING SALES CORP. OR APPROVED EQUAL.

**CATCH BASIN - GUTTER APRON**

SCALE: N.T.S. DATE: 11/15/2011 ST-15

NOTES:  
 1. ROADWAY UNDERDRAIN PIPE SHALL ONLY BE PLUGGED ON DOWNSTREAM SIDE OF CATCH BASIN, BUT NOT IN LOW POINT CATCH BASINS.  
 2. THE MAIN SUPPORT BARS ON THE RETICULATE GRATE SHALL BE PARALLEL TO THE ROADWAY WITH SECURING BOLTS PERPENDICULAR TO ROADWAY.  
 3. UPON COMPLETION & ACCEPTANCE OF CATCH BASIN, THE GRATE SHALL BE BOLTED DOWN FOR PUBLIC SAFETY.

**FIELD INLET DETAIL**

SCALE: N.T.S. DATE: 11/15/2011 ST-16

NOTE:  
 1. UPON COMPLETION & ACCEPTANCE OF FIELD INLET, THE GRATE SHALL BE BOLTED DOWN FOR PUBLIC SAFETY.

REVISIONS

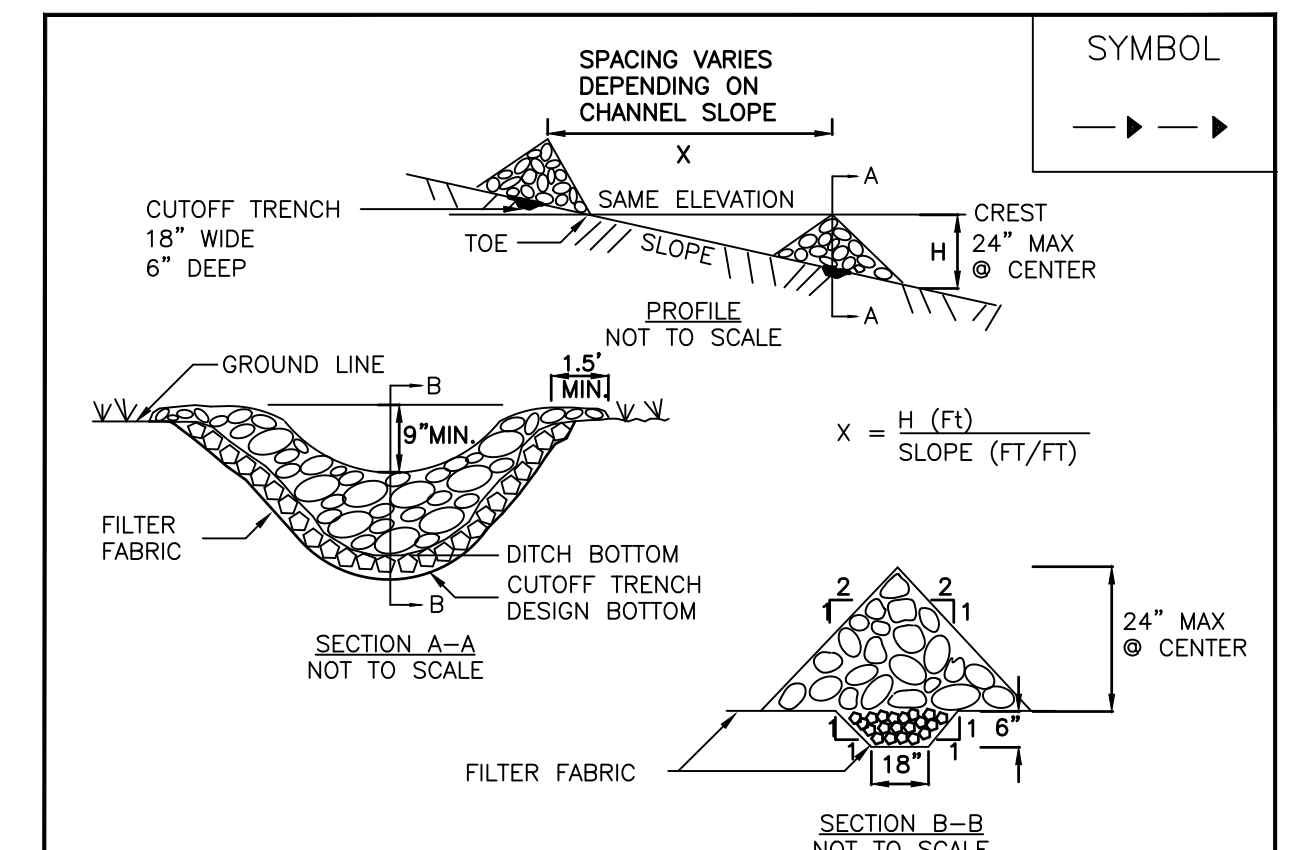
NO.	DATE	BY	REVISIONS
1	5/7/22	RPB	
2	4/7/22	RPB	
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DATE: 11/15/2011

PROJECT: LEHIGH RIDGE  
 TOWN OF HENRIETTA, WARREN COUNTY, NEW YORK STATE  
 CLIENT: LEHIGH RIDGE  
 PROJECT ENGINEER: J. CHETKO  
 DRAWN BY: A. BEYER  
 SCALE: N.T.S.  
 DATE ISSUED: AUGUST 2021  
 PROJECT NO.: 2728  
 DRAWING NO.: (SHEET 2 OF 3)

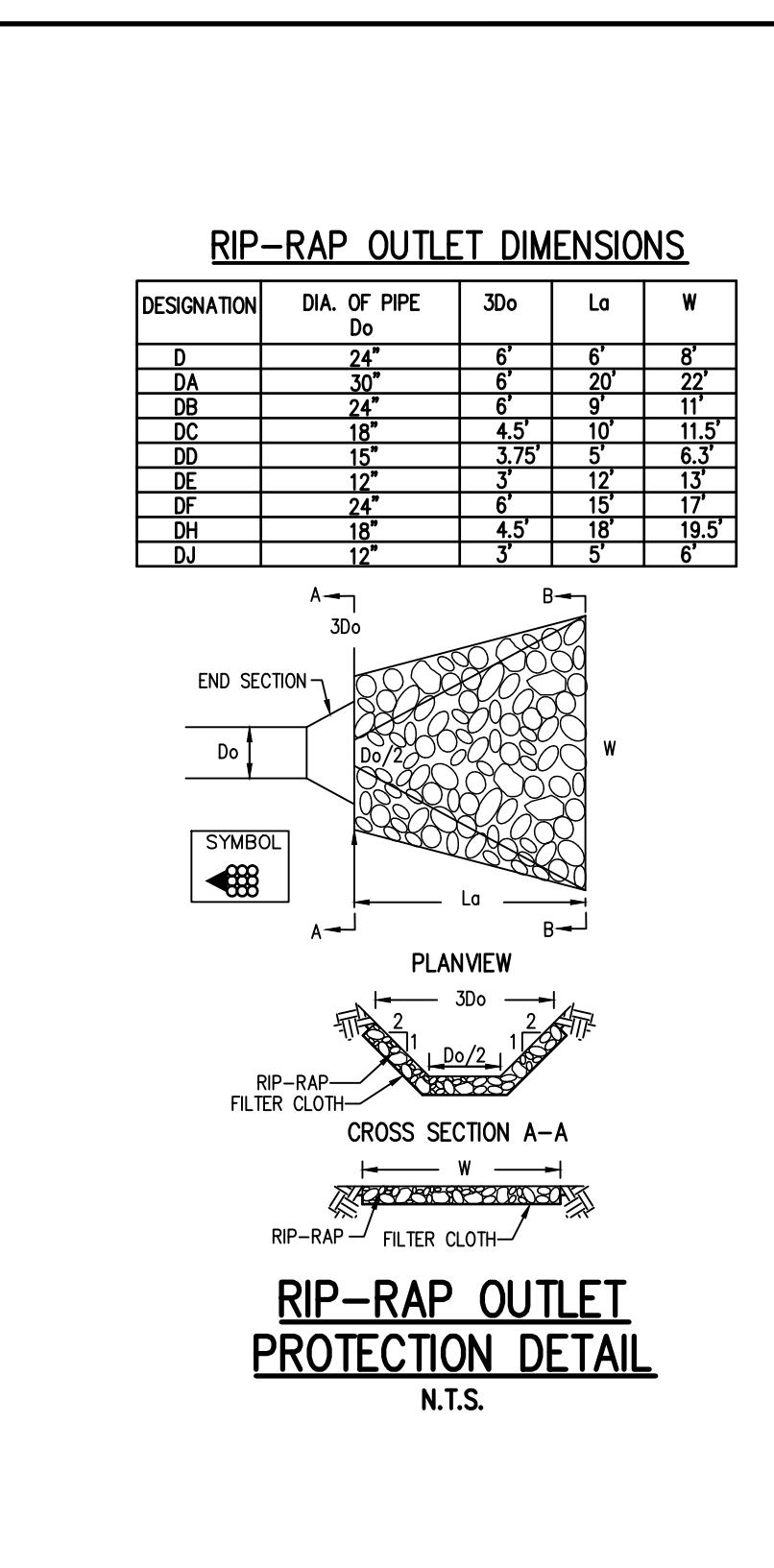
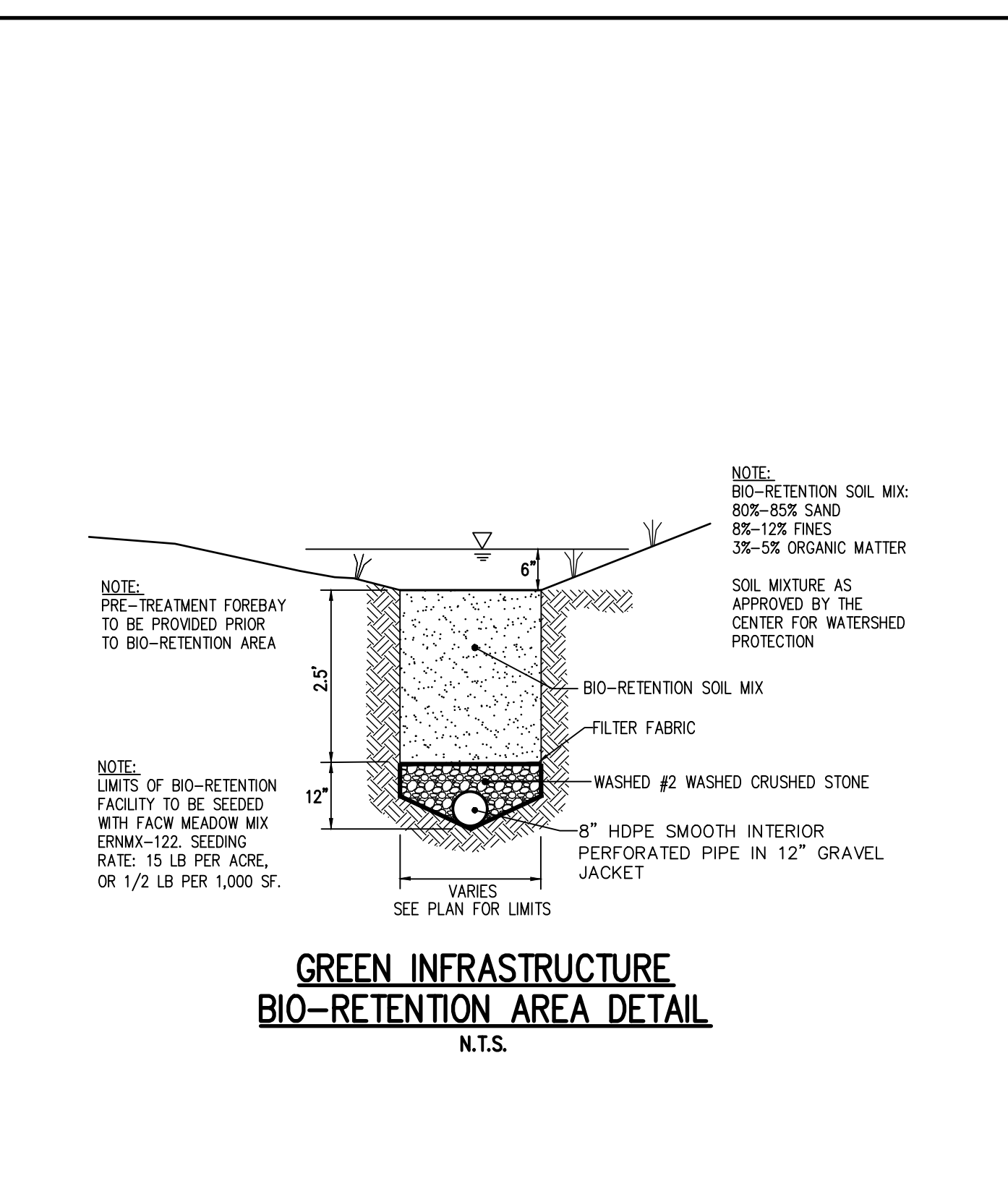
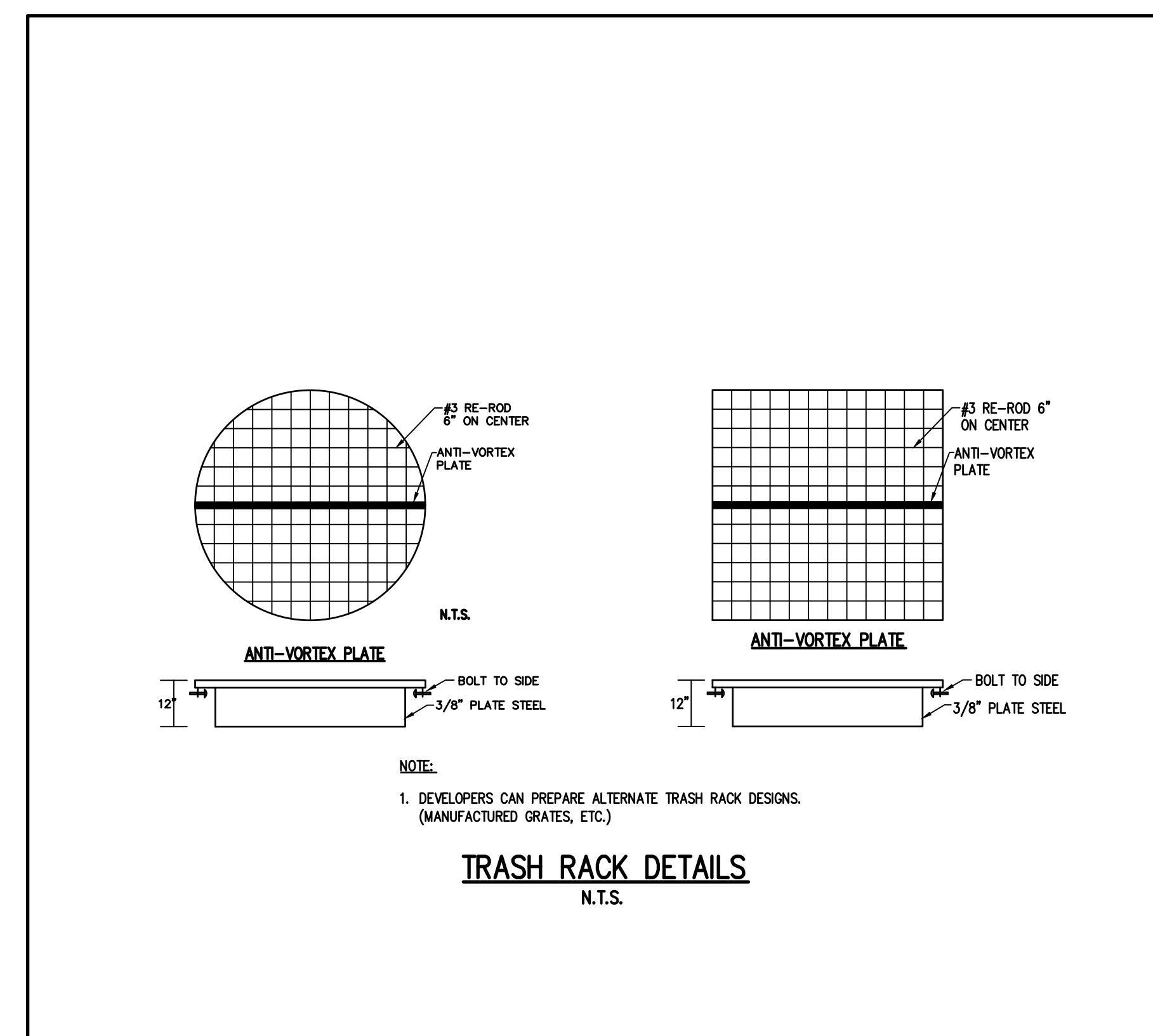
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SEAL OF PROFESSIONAL ENGINEER  
 STATE OF NEW YORK  
 J. CHETKO  
 09527



- CONSTRUCTION SPECIFICATIONS**
- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES.
  - SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
  - EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
  - PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
  - ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA 2 ACRES.
- ADAPTED FROM DETAILS PROVIDED BY USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE.

Drawn by: [Name]  
 The drawing is not a contract. It is a representation of the design of the project. It is not to be used for construction without the approval of the engineer. It is not to be used for any other purpose without the written consent of the engineer. It is not to be used for any other purpose without the written consent of the engineer.

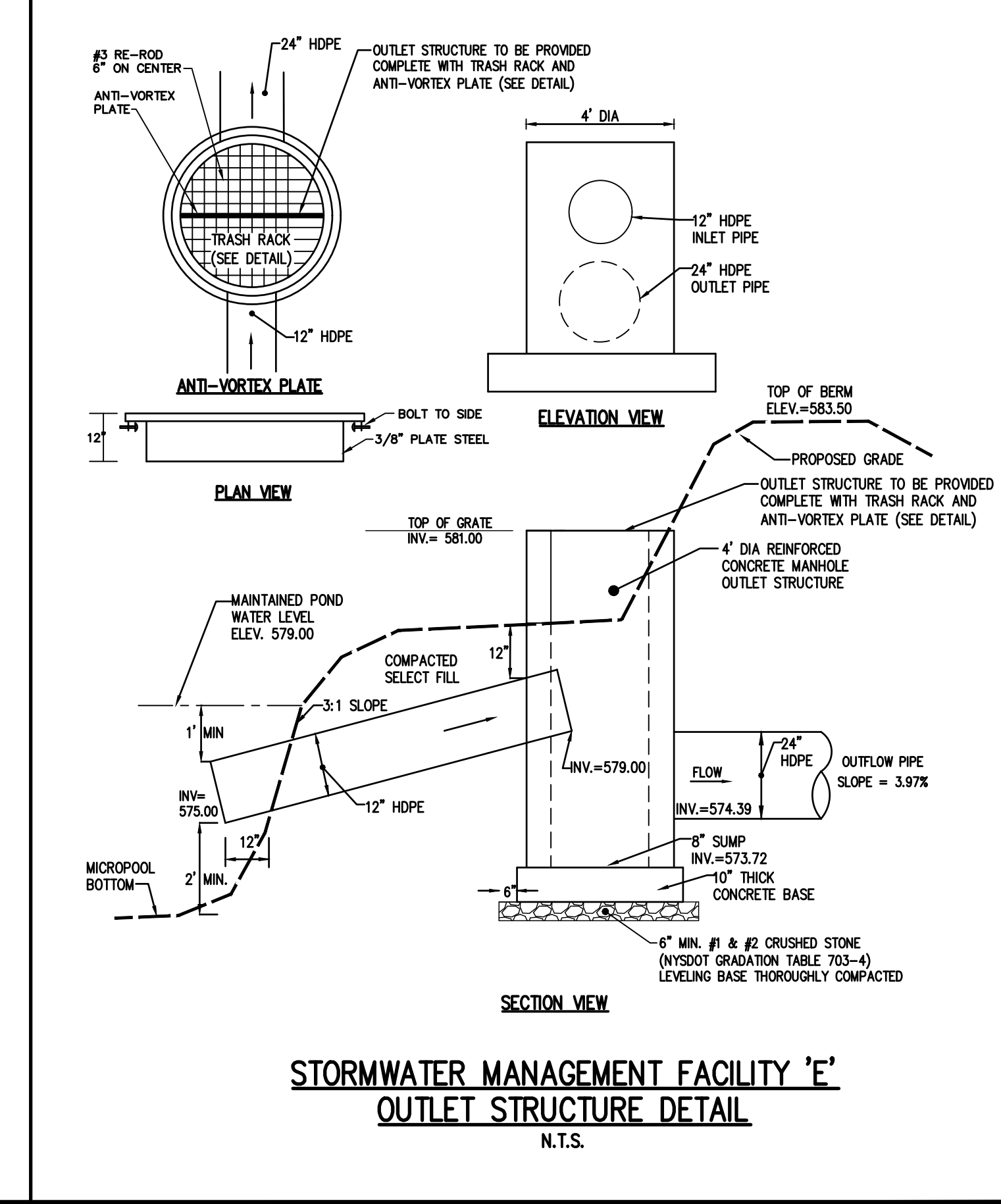
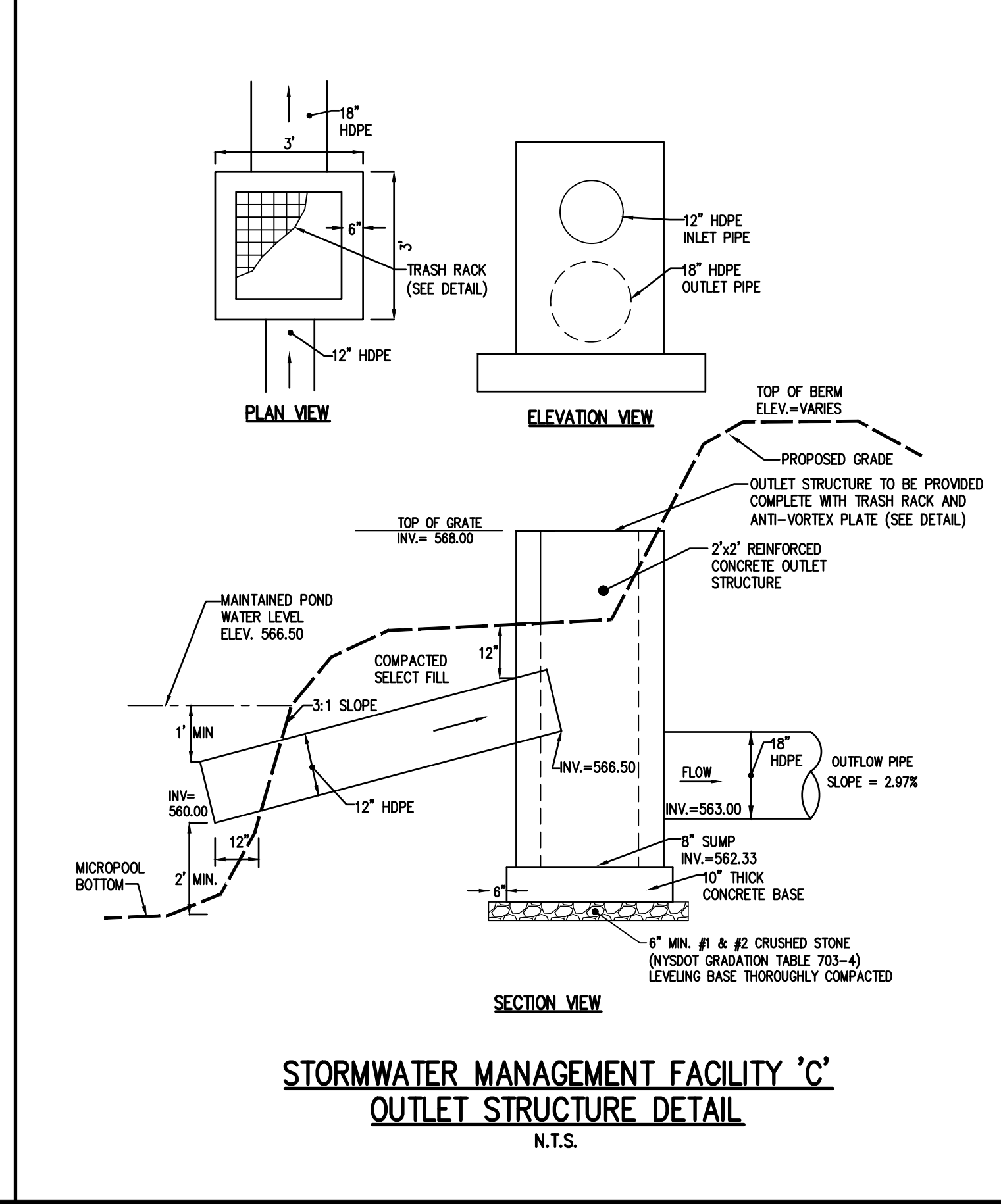
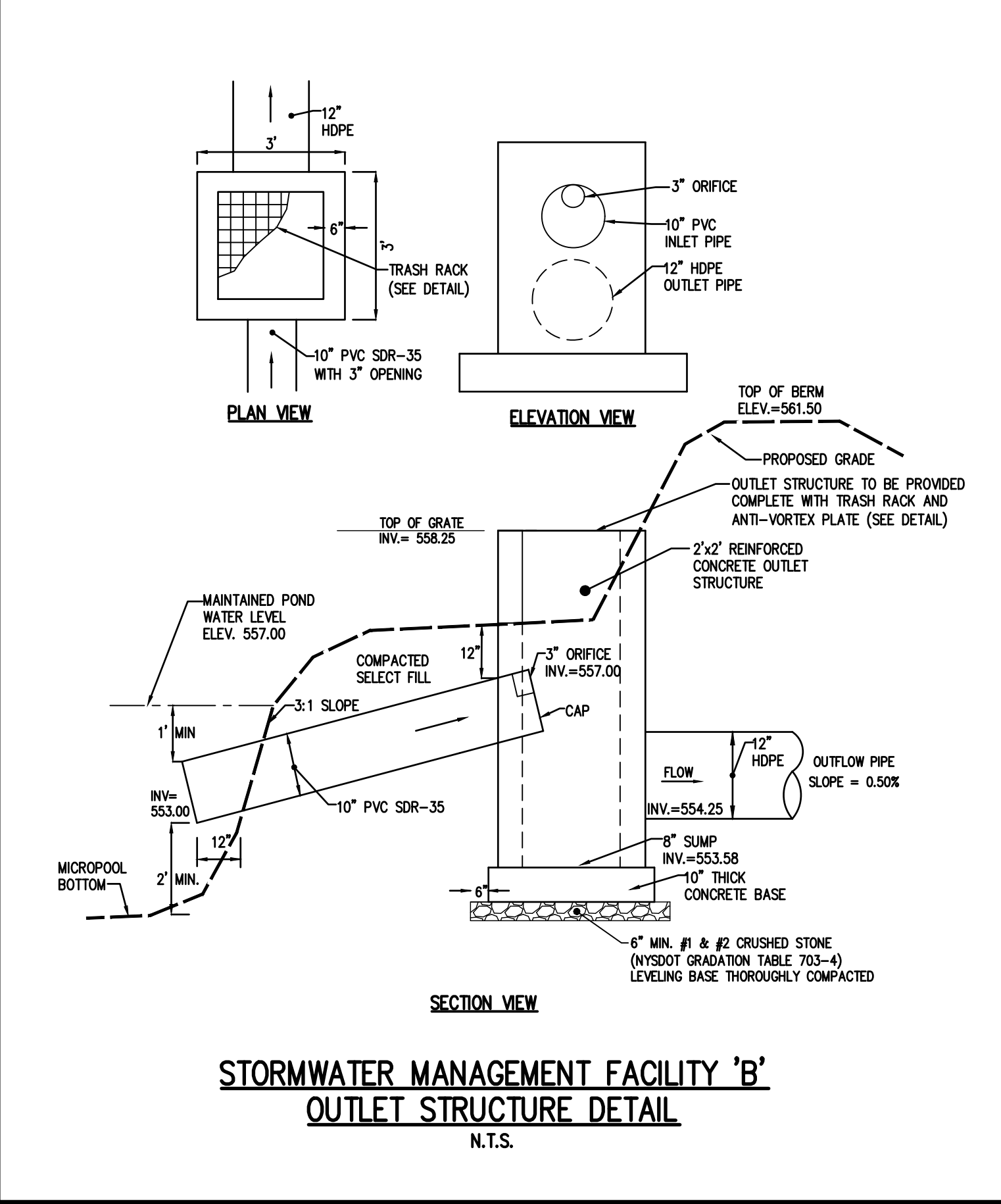
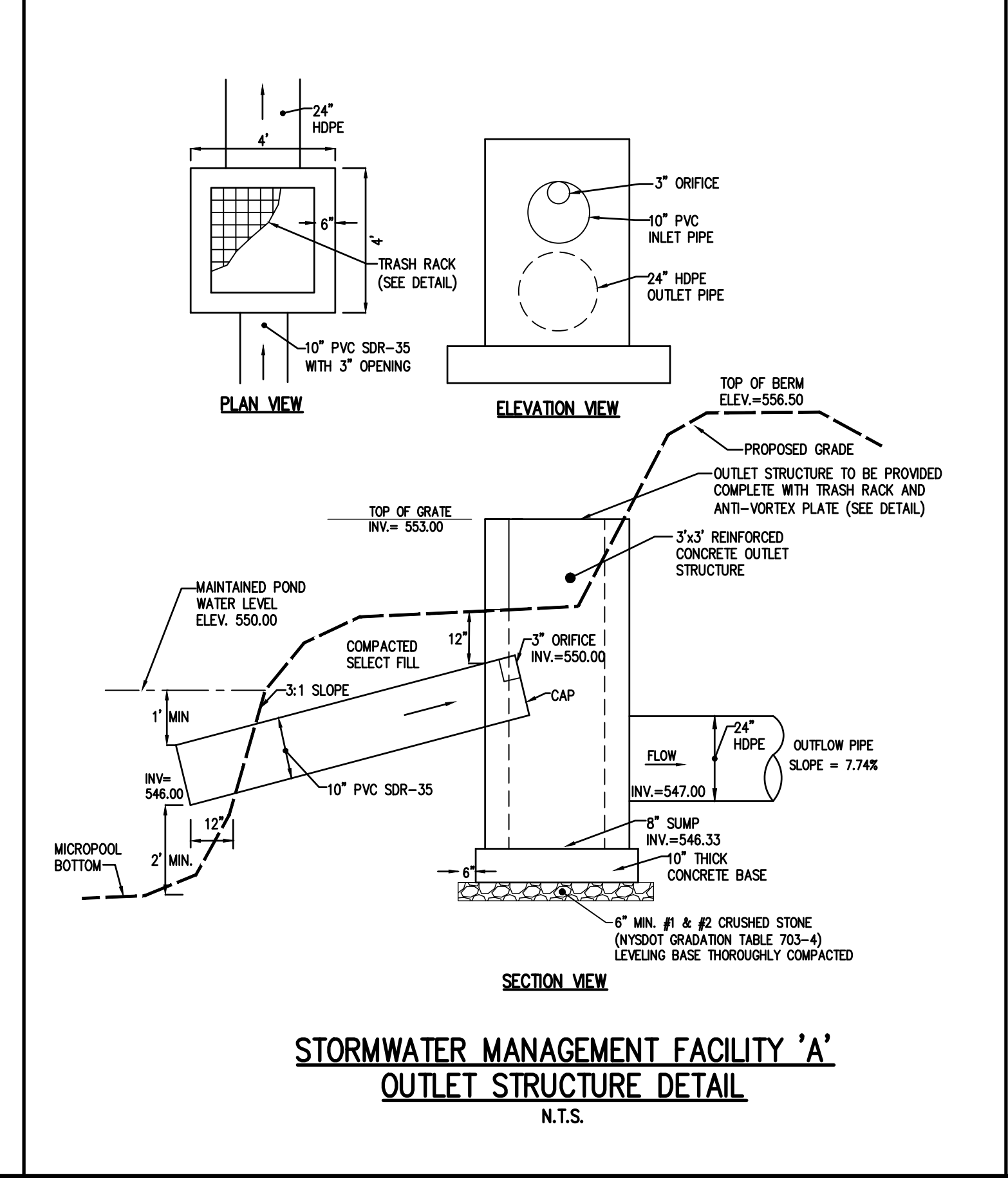
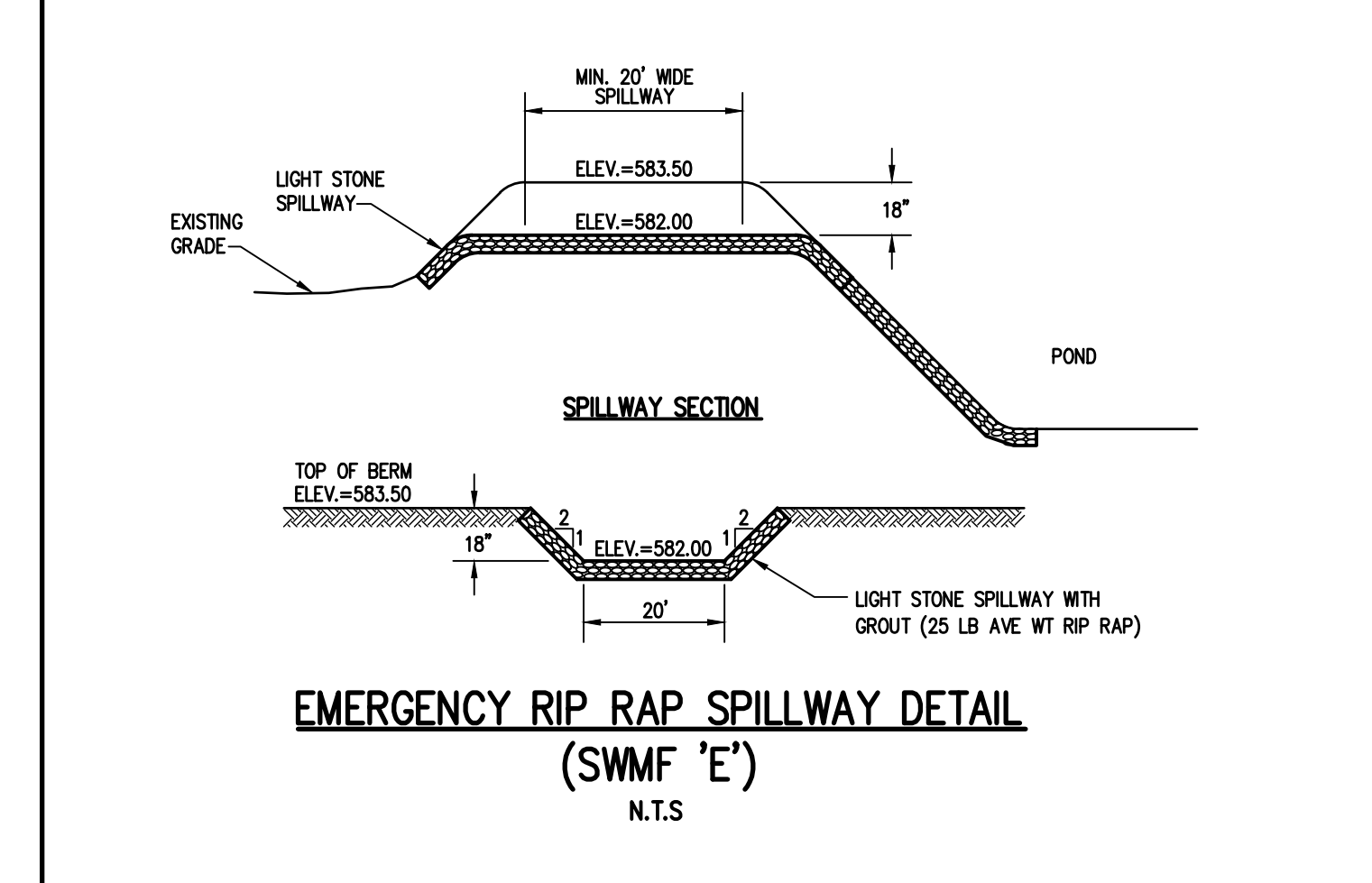
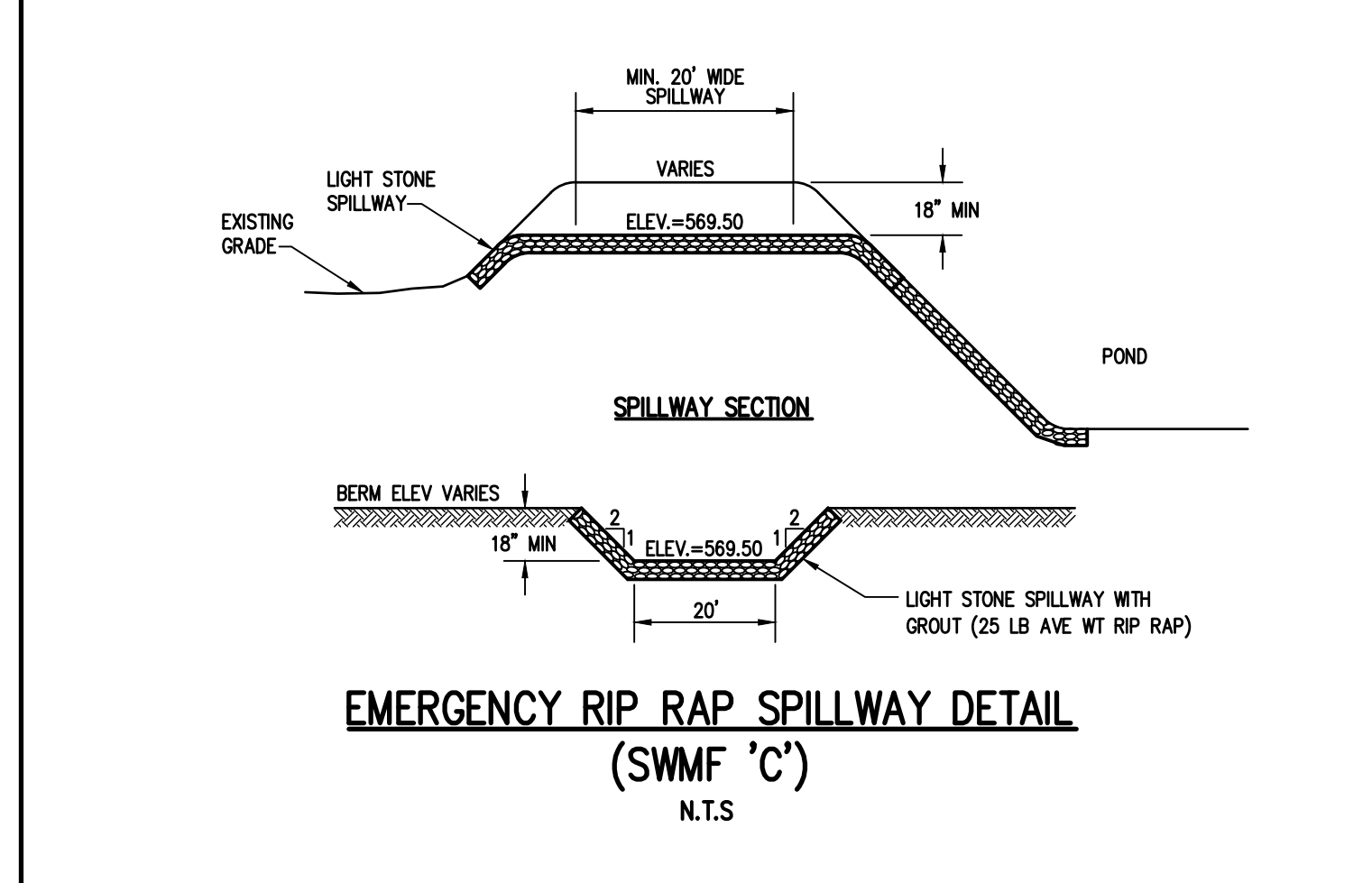
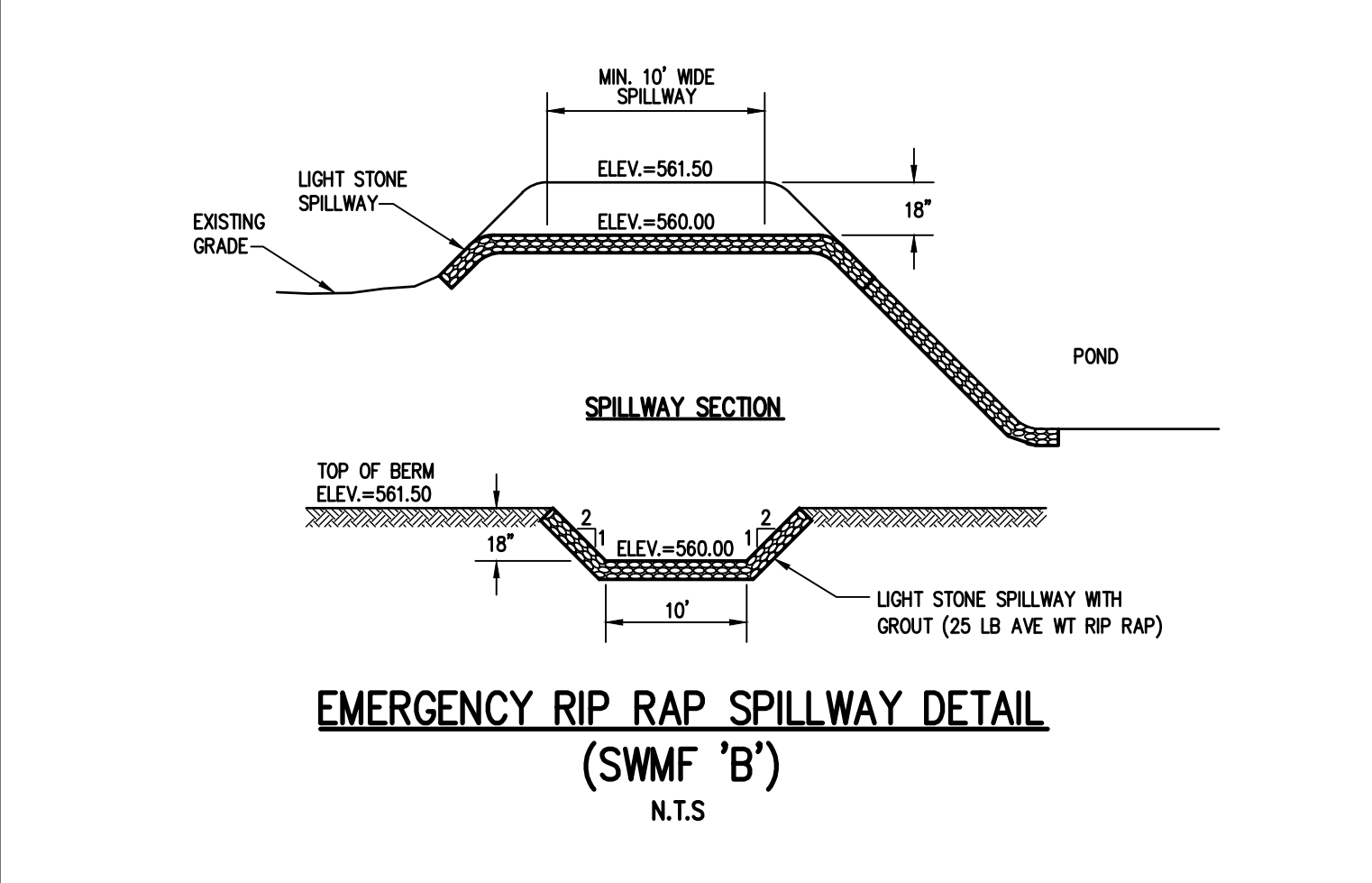
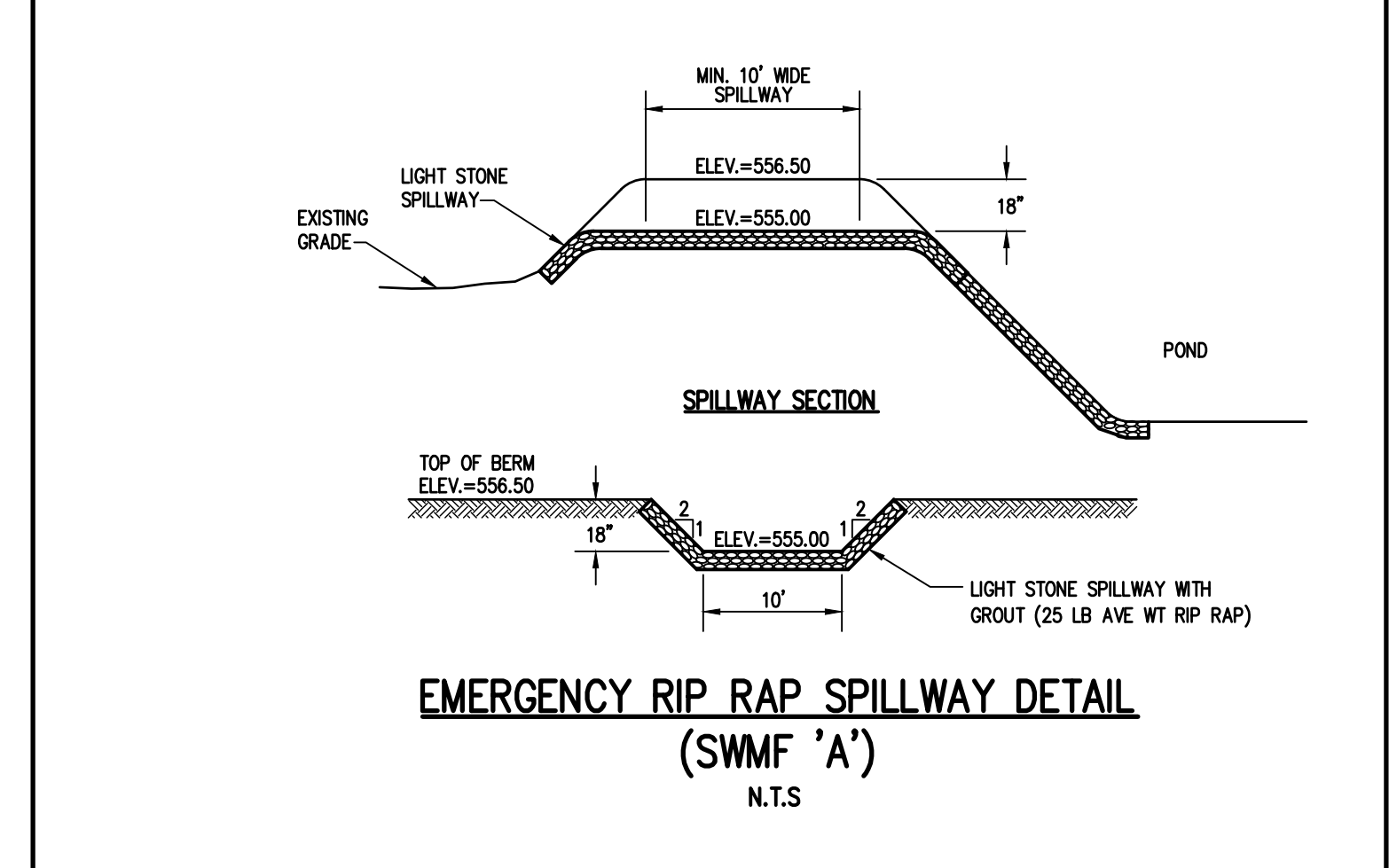


CONDITION	SCHEMATIC	REQUIREMENTS
I WATER LINE ABOVE SEWER LINE	[Schematic I]	A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B) BACKFILL WITH COMPACTED CRUSHER RUN STONE.
II WATER LINE ABOVE SEWER LINE	[Schematic II]	A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B) WHEN BOTH WATER LINE AND SEWER LINE ARE NEW, SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING. WHEN ONE LINE IS EXISTING, SLEEVE PIPE BEING INSTALLED WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING. C) BACKFILL WITH COMPACTED CRUSHER RUN STONE.
III SEWER LINE ABOVE WATER LINE	[Schematic III]	A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B) SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING. C) PROVIDE GRADE OF CONCRETE OR CRUSHER RUN STONE (SEE DETAIL) METAL SLEEVES FOR WATER LINE AND SEWER LINE FOR 10 FT. EACH SIDE OF CROSSING.

**NOTES**

- WL (WATER LINE)
- SL (SEWER LINE)
- D (OUTSIDE DIAMETER OF PIPE)
- IN NO CASE SHALL PIPES BE CLOSER THAN 8" APART. OUTSIDE DIAMETER SHALL BE MEASURED BETWEEN OUTSIDES OF PIPE.

**WATERMAIN/SEWER CROSSING DETAIL**  
N.T.S.



NO.	DATE	BY	REVISIONS
1	5/7/22	RPB	
2	4/7/22	RPB	
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 WWW.BMEASSOCIATES.COM



**LEHIGH RIDGE**  
 TOWN OF BERKELA, MONROE COUNTY, NEW YORK STATE  
 PROJECT: [Name]  
 LOCATION: [Name]  
 CLIENT: [Name]  
 PROJECT ENGINEER: J. CHETKOFF  
 PROJECT NO. [Name]  
 DRAWING NO. [Name]

PROJECT MANAGER: J. VARS  
 SCALE: N.T.S.  
 DATE ISSUED: AUGUST 2021  
 SHEET NO. 2728  
 (SHEET 3 OF 3)