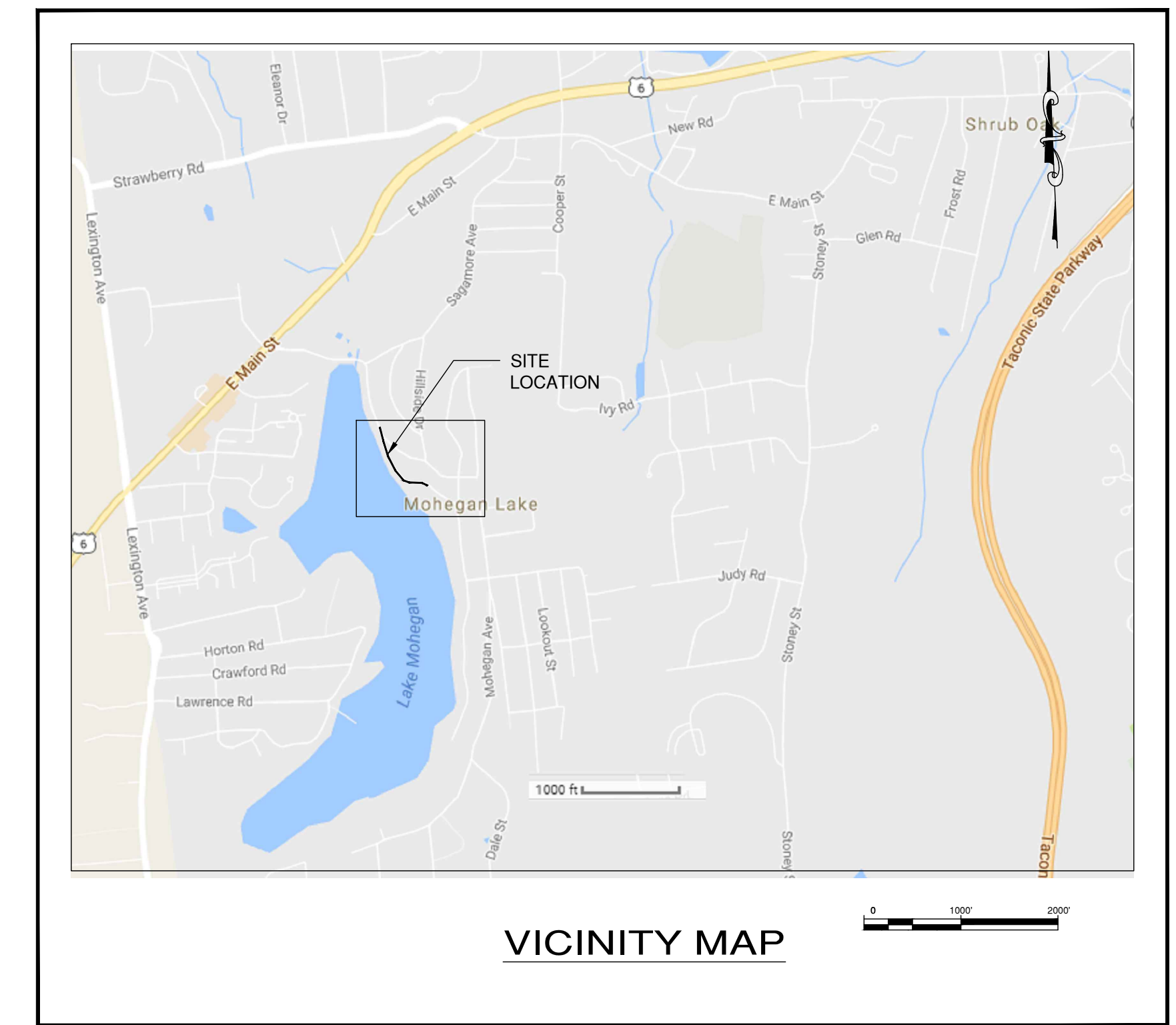
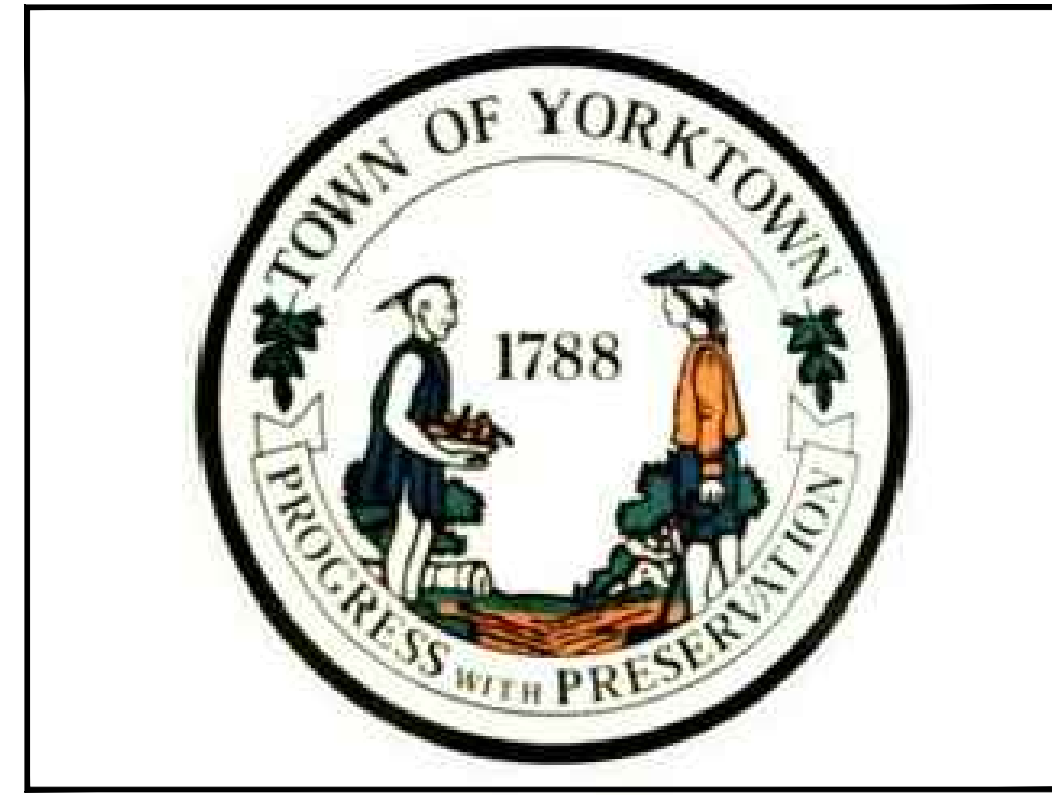


DRAWING No.	DRAWING TITLE
1	COVER SHEET
2	EXISTING LAYOUT PLAN OF RETAINING WALL & LOCATION OF TEST PITS
3	DEMOLITION PLAN & DETAILS
4	PROPOSED LAYOUT PLAN OF RETAINING WALL & WALL HEIGHT SUMMARY
5	PROPOSED RETAINING WALL TYPICAL SECTIONS, ELEVATIONS AND DETAILS
6	TRAFFIC CONTROL PLAN AND DETAIL, DURING CONSTRUCTION OF RETAINING WALL
7	DETAILS – SHEET 1 OF 1



CONTRACT NO. 18-1

MOHEGAN AVENUE RETAINING WALL REPLACEMENT PROJECT

HIGHWAY DEPARTMENT

TOWN OF YORKTOWN, NEW YORK

TOWN SUPERVISOR

ILAN GILBERT

TOWN BOARD

ED LACHTERMAN
ALICE E. ROKER
TOM DIANA
VISHNU PATEL

TOWN ENGINEER

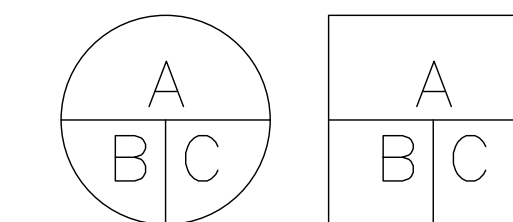
MICHAEL QUINN, P.E.

HIGHWAY SUPERINTENDENT

DAVID PAGANELLI

GENERAL NOTES:

- DO NOT SCALE THE DRAWINGS. USE WRITTEN DIMENSIONS ONLY.
- THE BACKGROUND INFORMATION USED, WHICH SHOWS THE EXISTING CONDITIONS, WAS PREPARED FOR TOWN OF YORKTOWN, DATED AUGUST 22, 2016, BY BADEY & WATSON SURVEYORS AND ENGINEERING P.C., AND MAY NOT DEPICT THE AS-BUILT CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING THE WORK.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ADEQUATE PROTECTION FOR ALL EXISTING STRUCTURES AND BUILDING FINISHES. ALL PROTECTIVE MEASURES MUST BE APPROVED BY THE TOWN IN ADVANCE.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY MATERIAL MARKED FOR REMOVAL.



A – SECTION / DETAIL NUMBER
B – DRAWING ON WHICH SECTION / DETAIL IS FIRST CUT
C – DRAWING ON WHICH SECTION / DETAIL IS LOCATED

SECTION AND DETAIL KEY

WARNING – IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF THE NEW YORK STATE LAW SECTION 7209.2.

TOWN OF YORKTOWN
WESTCHESTER COUNTY, NEW YORK

MOHEGAN AVENUE
RETAINING WALL REPLACEMENT PROJECT

CHARLES A. MANGANARO
CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION

303 SOUTH BROADWAY, SUITE 460, TARRYTOWN, NY 10591-5400

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

SCALE: NONE

JOB No. 1893D

CONTRACT No. 18 - 1

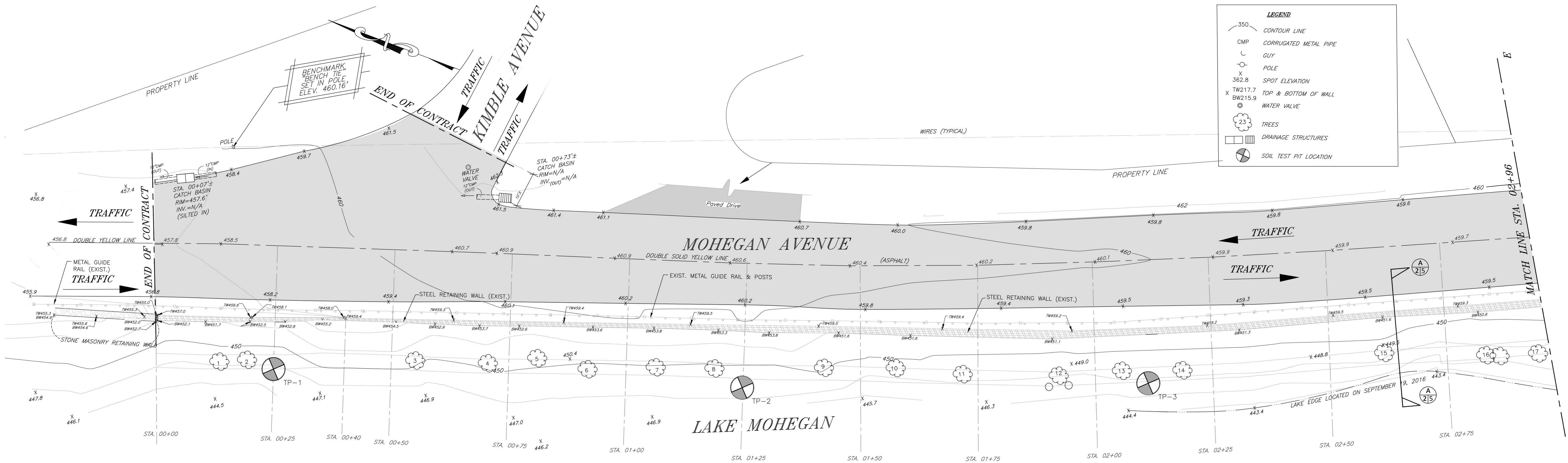
DRAWING No. 1

No.	REVISION/ISSUE	DATE
1	ISSUED FOR BID	01/15/2018

DESIGNED BY: ST
DRAWN BY: AK
CHECKED BY: ST



APPROVED BY: *Shailesh R. Naik*
DATE: 02/22/2019



CONTRACTOR NOTES - BORING ONLY

CONTRACTOR TO PERFORM A GEOTECHNICAL INVESTIGATION FOR THE PROPOSED WALL CONSTRUCTED ALONG MOHEGAN AVENUE. THE LOCATION OF THE SIX (6) TEST BORINGS ARE SHOWN ON THIS DRAWING. THE COST FOR OBTAINING GEOTECHNICAL INVESTIGATION REPORT AND RECOMMENDATION IS TO BE BORNE BY THE CONTRACTOR. SUBSURFACE INVESTIGATION CAN BE PERFORMED BY THE FOLLOWING CONSULTANT.

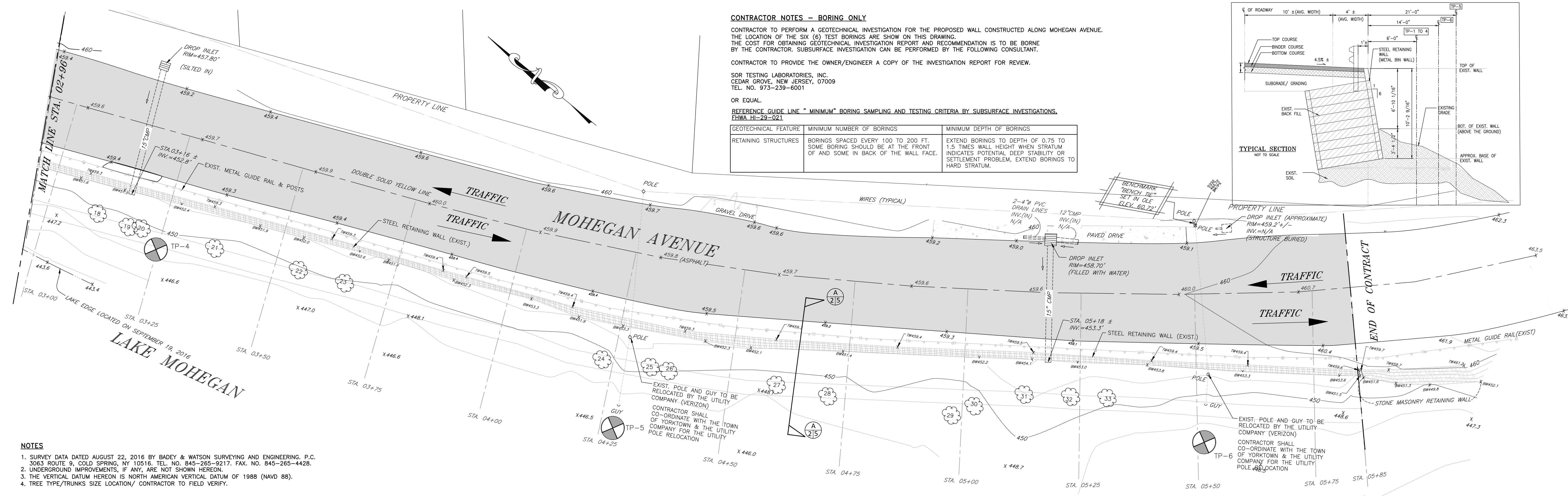
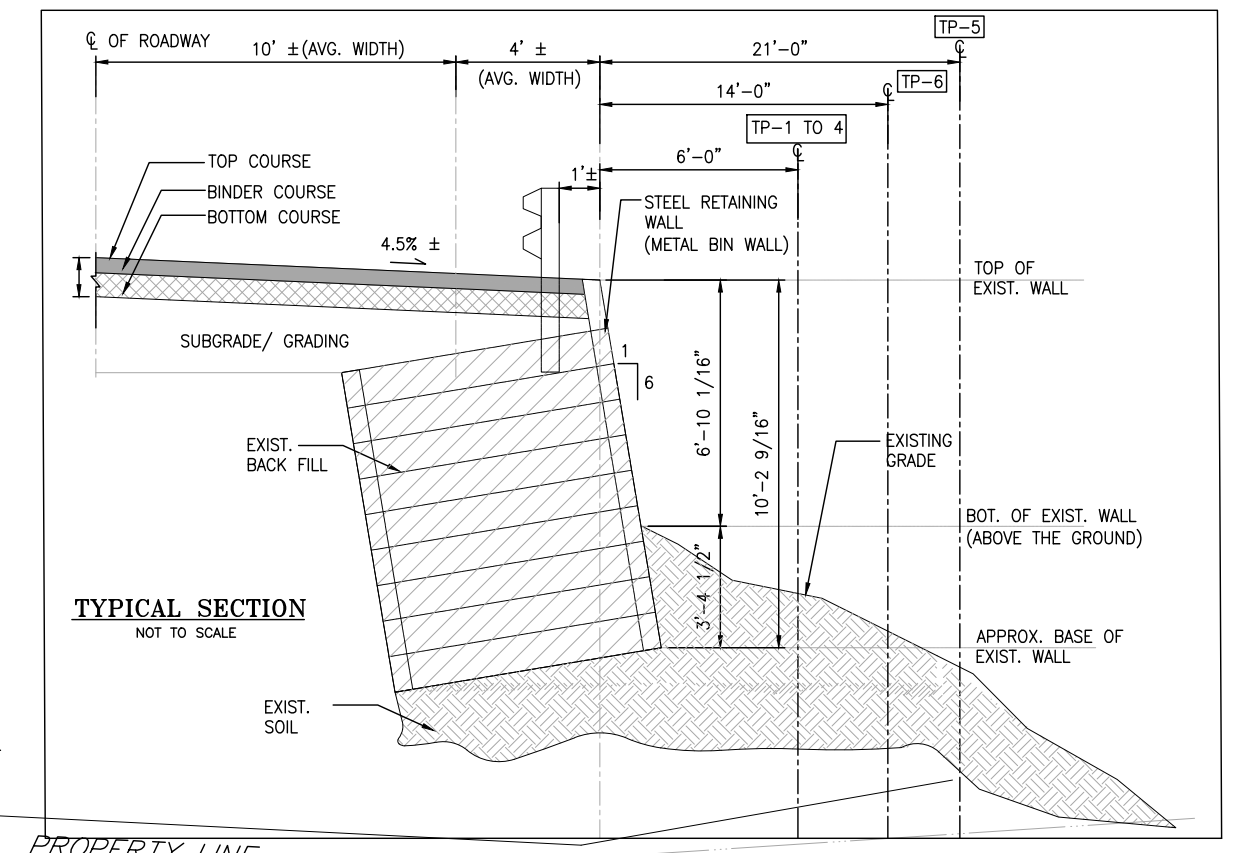
CONTRACTOR TO PROVIDE THE OWNER/ENGINEER A COPY OF THE INVESTIGATION REPORT FOR REVIEW.

SOR TESTING LABORATORIES, INC.
CEDAR GROVE, NEW JERSEY, 07009
TEL. NO. 973-239-6001

OR EQUAL.

REFERENCE GUIDE LINE "MINIMUM" BORING SAMPLING AND TESTING CRITERIA BY SUBSURFACE INVESTIGATIONS, FHWA HI-29-021

GEOTECHNICAL FEATURE	MINIMUM NUMBER OF BORINGS	MINIMUM DEPTH OF BORINGS
RETAINING STRUCTURES	BORINGS SPACED EVERY 100 TO 200 FT. SOME BORING SHOULD BE AT THE FRONT OF AND SOME IN BACK OF THE WALL FACE.	EXTEND BORINGS TO DEPTH OF 0.75 TO 1.5 TIMES WALL HEIGHT WHEN STRATUM INDICATES POTENTIAL DEEP STABILITY OR SETTLEMENT PROBLEM, EXTEND BORINGS TO HARD STRATUM.



- NOTES**
1. SURVEY DATA DATED AUGUST 22, 2016 BY BADEY & WATSON SURVEYING AND ENGINEERING, P.C. 3063 ROUTE 9, COLD SPRING, NY 10516. TEL. NO. 845-265-9217. FAX. NO. 845-265-4428.
 2. UNDERGROUND IMPROVEMENTS, IF ANY, ARE NOT SHOWN HEREON.
 3. THE VERTICAL DATUM HEREON IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
 4. TREE TYPE/TRUNKS SIZE LOCATION/ CONTRACTOR TO FIELD VERIFY.

WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF THE NEW YORK STATE LAW SECTION 7209.2.

TOWN OF YORKTOWN
WESTCHESTER COUNTY, NEW YORK

MOHEGAN AVENUE
RETAINING WALL REPLACEMENT
PROJECT



EXISTING LAYOUT PLAN OF
RETAINING WALL &
LOCATION OF TEST PITS

CHARLES A. MANGANARO
CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION

303 SOUTH BROADWAY, SUITE 460, TARRYTOWN, NY 10591-5400

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

SCALE: 1" = 10'-0"

JOB No. 1893D

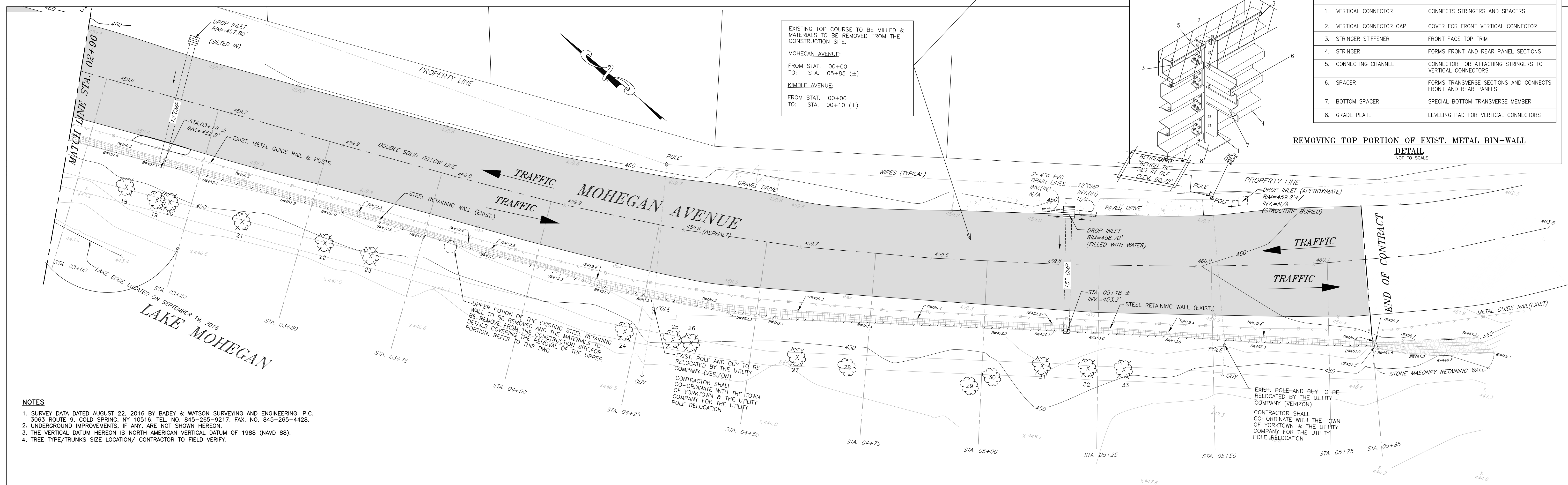
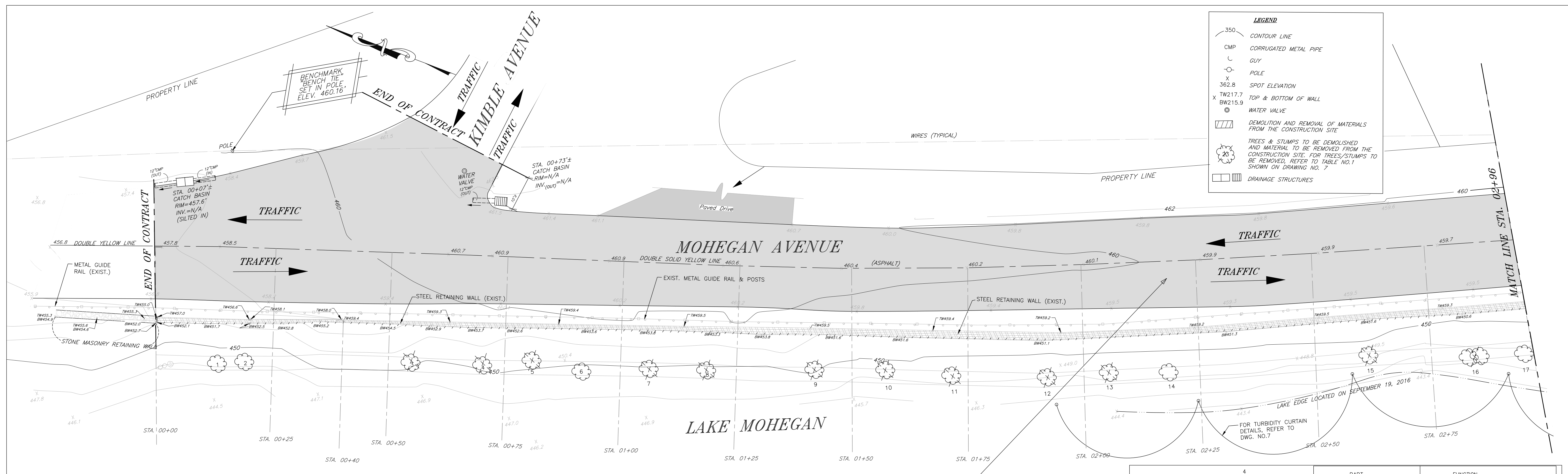
CONTRACT No. 18 - 1

DRAWING No. 2

1	ISSUED FOR BID	01/15/2018
No.	REVISION/ISSUE	DATE
DESIGNED BY:	AK/ST	
DRAWN BY:	AK	
CHECKED BY:	ST	

APPROVED BY:

DATE: 02/22/2019



NOTES

1. SURVEY DATA DATED AUGUST 22, 2016 BY BADEY & WATSON SURVEYING AND ENGINEERING, P.C. 3063 ROUTE 9, COLD SPRING, NY 10516. TEL. NO. 845-265-9217. FAX. NO. 845-265-4428.
2. UNDERGROUND IMPROVEMENTS, IF ANY, ARE NOT SHOWN HEREON.
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4. TREE TYPE/TRUNKS SIZE LOCATION/ CONTRACTOR TO FIELD VERIFY.

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TOWN OF YORKTOWN
WESTCHESTER COUNTY, NEW YORK

MOHEGAN AVENUE
RETAINING WALL REPLACEMENT
PROJECT



DEMOLITION PLAN &
DETAIL

CHARLES A. MANGANARO
CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION

303 SOUTH BROADWAY, SUITE 460, TARRYTOWN, NY 10591-5400

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

SCALE: 1" = 10'-0"

JOB No. 1893D

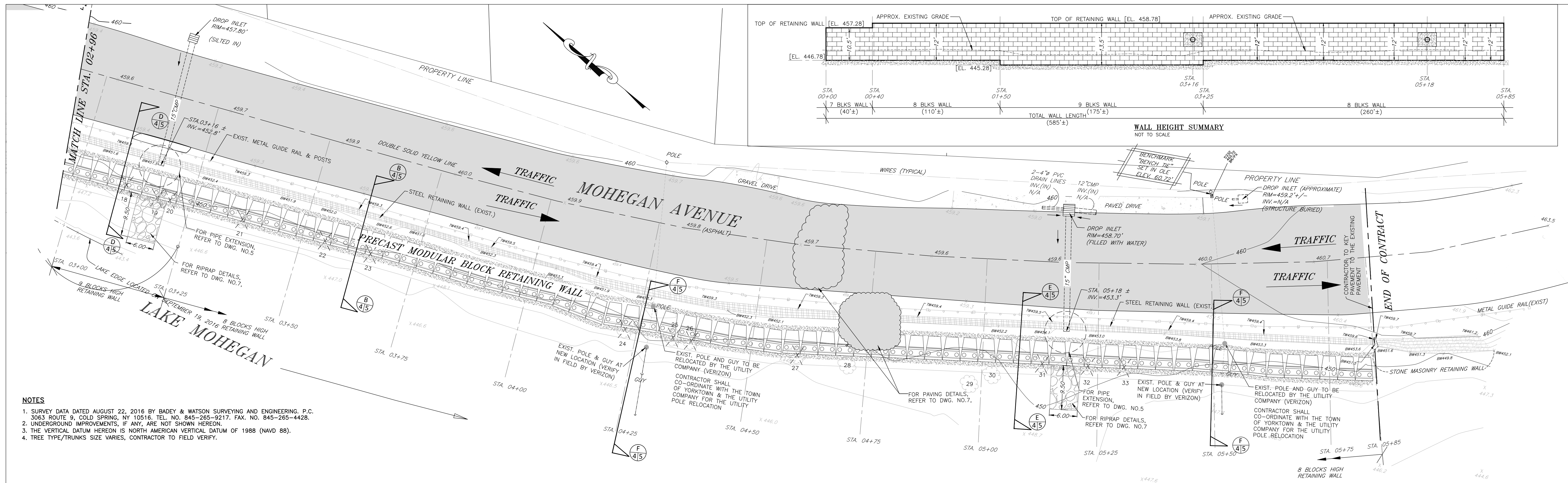
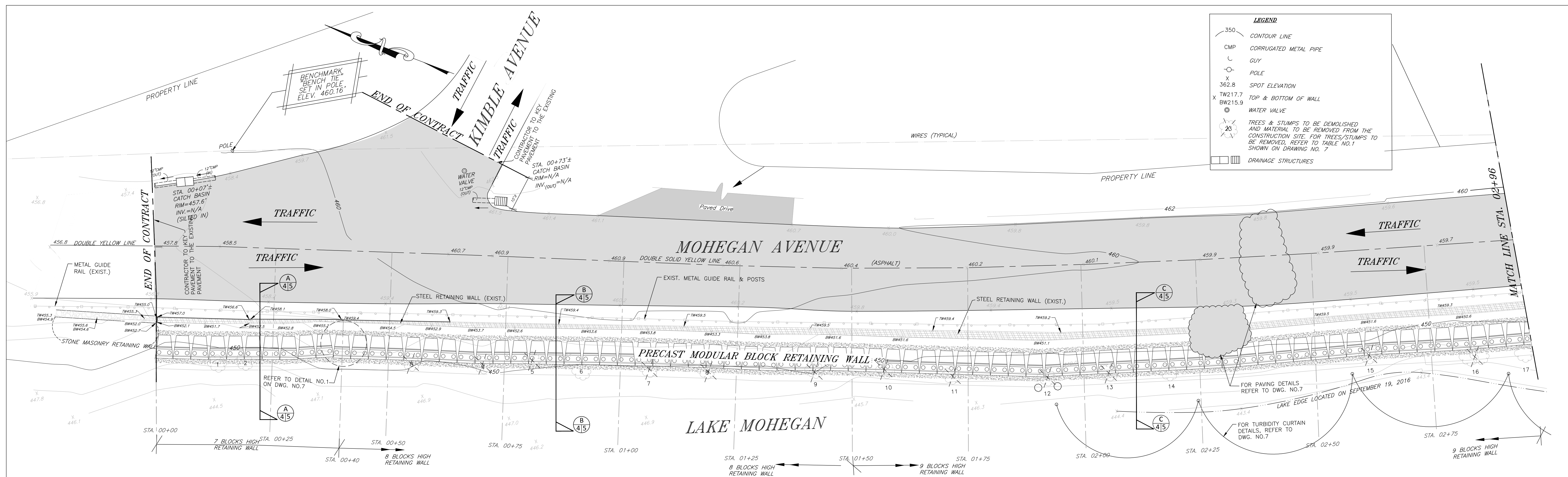
CONTRACT No. 18 - 1

DRAWING No. 3

1	ISSUED FOR BID	01/15/2018
No.	REVISION/ISSUE	DATE
DESIGNED BY:	AK/ST	
DRAWN BY:	AK	
CHECKED BY:	ST/SN	

APPROVED BY:

DATE: 02/22/2019



- NOTES**
1. SURVEY DATA DATED AUGUST 22, 2016 BY BADEY & WATSON SURVEYING AND ENGINEERING, P.C. 3063 ROUTE 9, COLD SPRING, NY 10516. TEL. NO. 845-265-9217. FAX. NO. 845-265-4428.
 2. UNDERGROUND IMPROVEMENTS, IF ANY, ARE NOT SHOWN HEREON.
 3. THE VERTICAL DATUM HEREON IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
 4. TREE TYPE/TRUNKS SIZE VARIES, CONTRACTOR TO FIELD VERIFY.

TOWN OF YORKTOWN
WESTCHESTER COUNTY, NEW YORK

**MOHEGAN AVENUE
RETAINING WALL REPLACEMENT
PROJECT**



PROPOSED LAYOUT PLAN
OF RETAINING WALL &
WALL HEIGHT SUMMARY

**CHARLES A. MANGANARO
CONSULTING ENGINEERS**
A PROFESSIONAL CORPORATION

303 SOUTH BROADWAY, SUITE 460, TARRYTOWN, NY 10591-5400

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

SCALE: 1" = 10'-0"

JOB No. 1893D

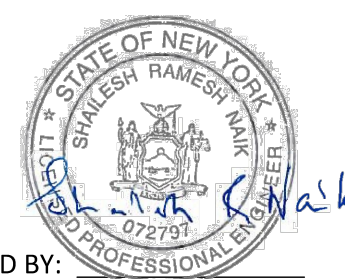
CONTRACT No. 18 - 1

DRAWING No. 4

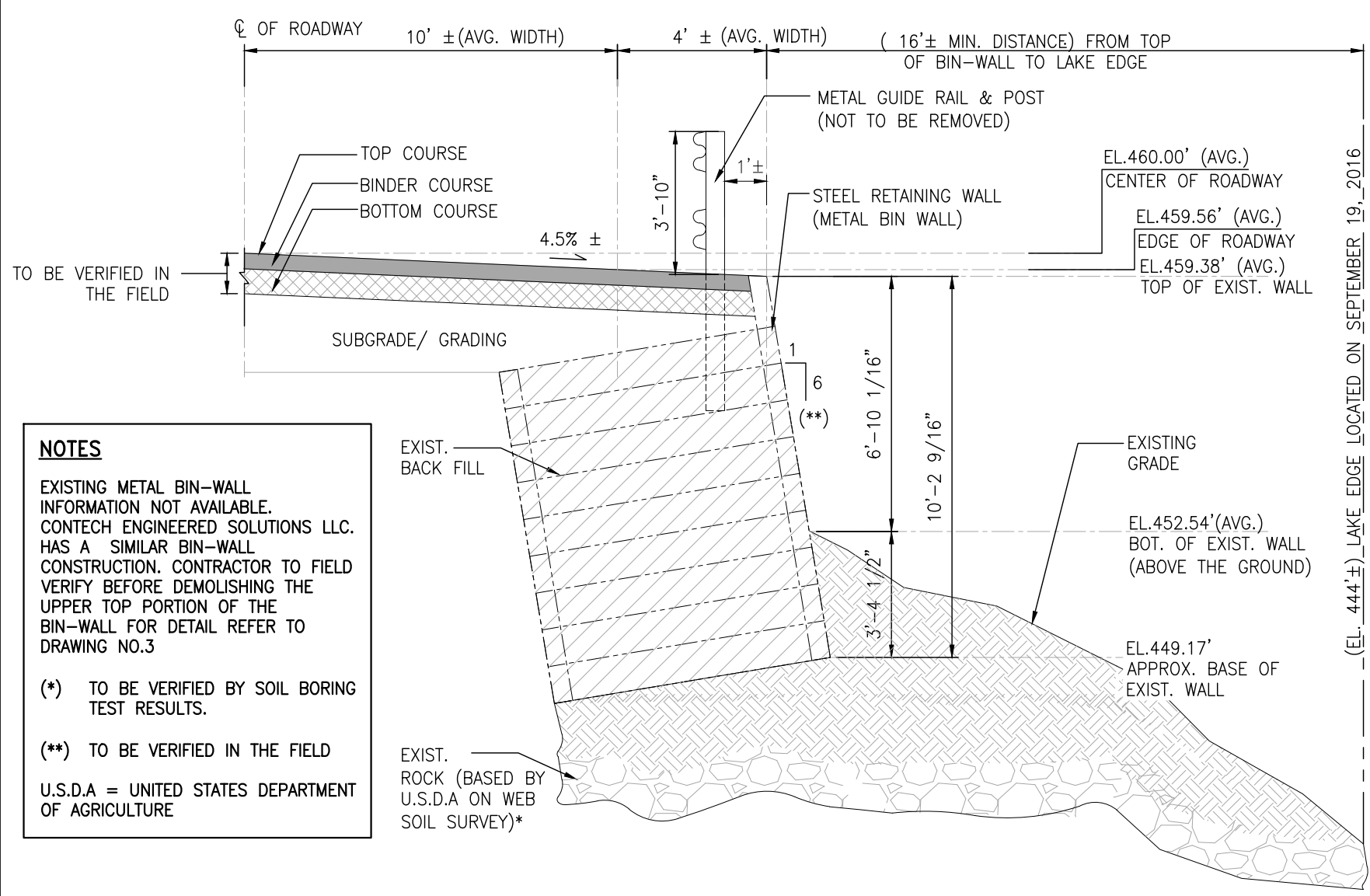
No.	REVISION/ISSUE	DATE
1	ISSUED FOR BID	01/15/2018

DESIGNED BY: AK/ST
DRAWN BY: AK
CHECKED BY: ST/AK

APPROVED BY: [Signature]
DATE: 02/22/2019

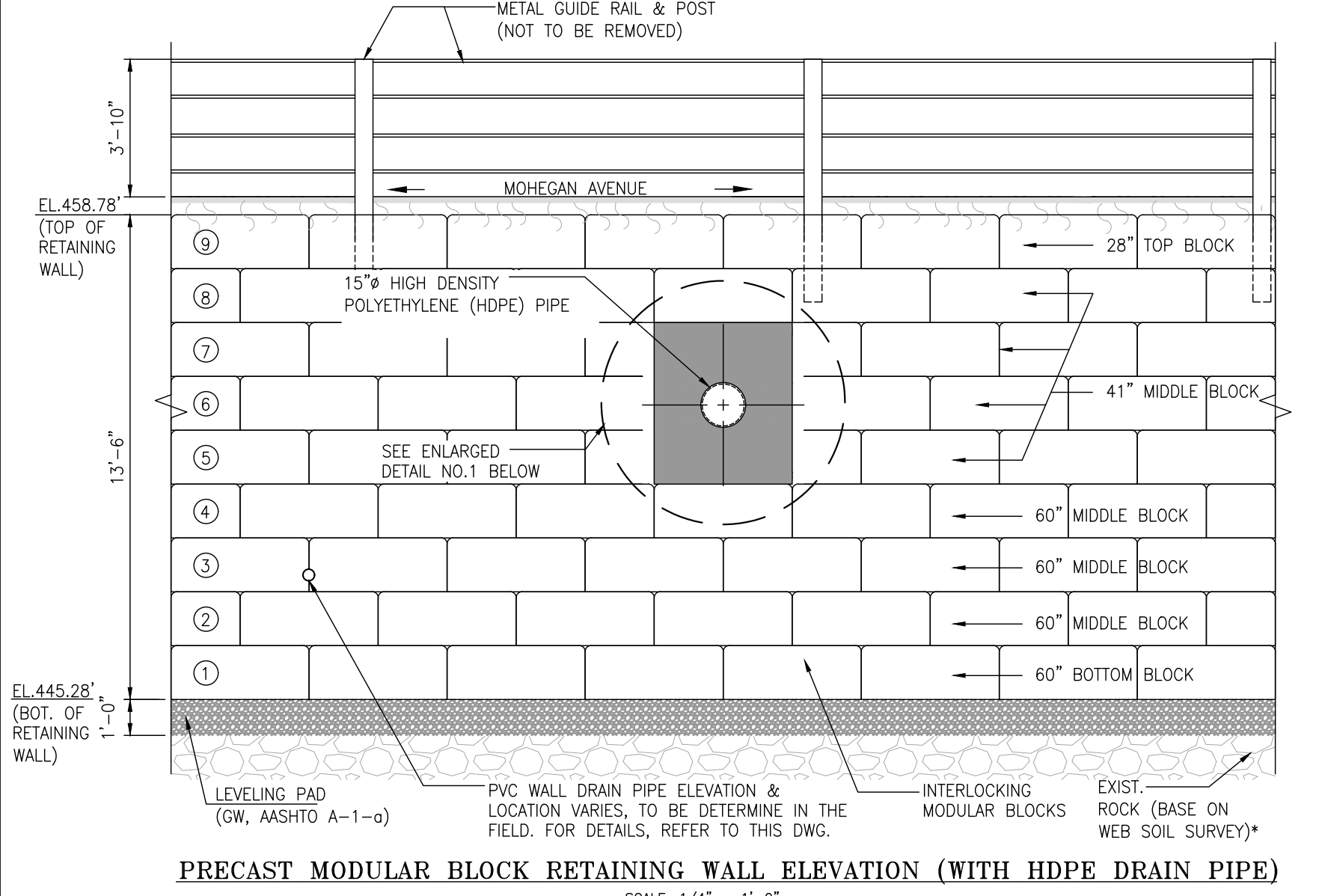


WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF THE NEW YORK STATE LAW SECTION 7209.2.

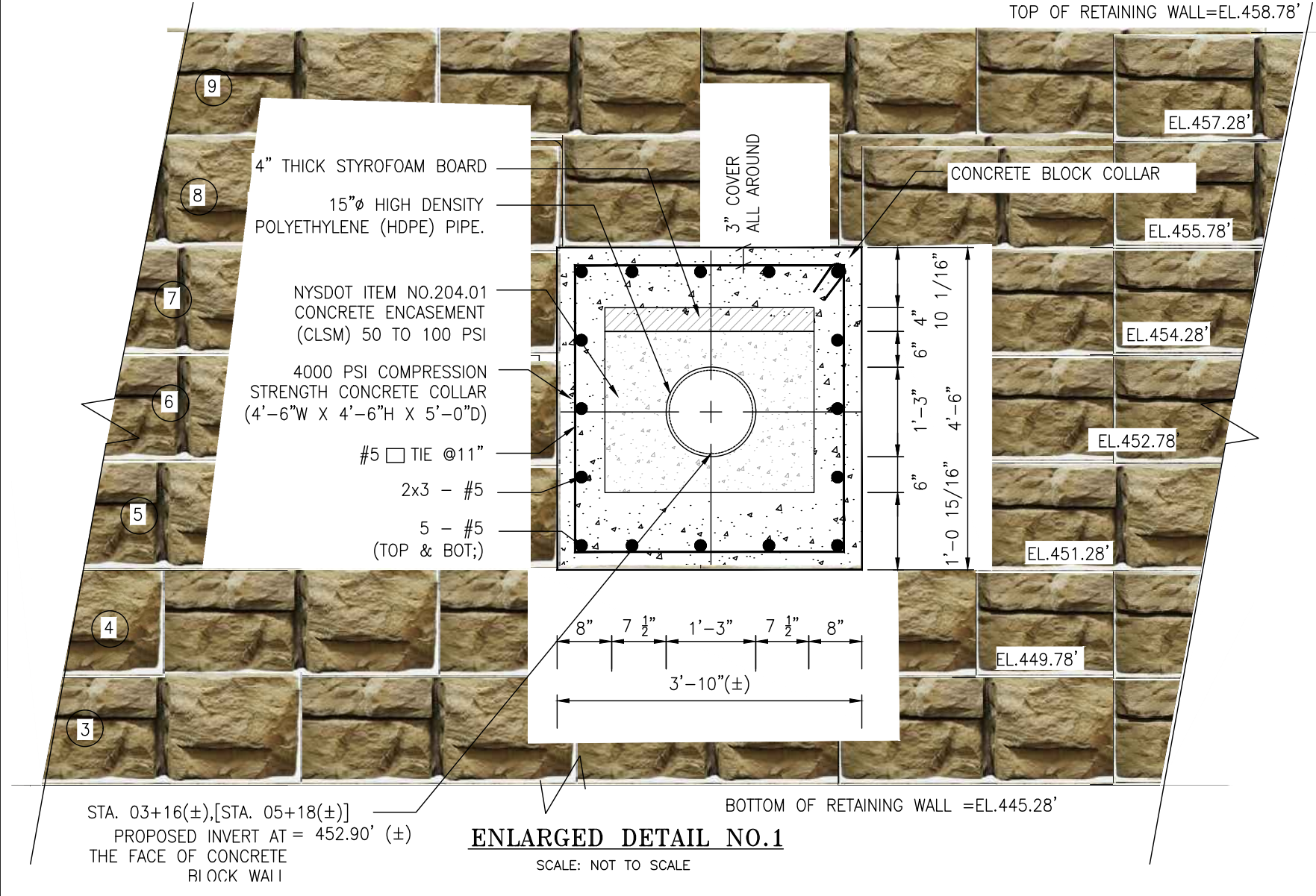


NOTES
 EXISTING METAL BIN-WALL INFORMATION NOT AVAILABLE. CONTECH ENGINEERED SOLUTIONS LLC. HAS A SIMILAR BIN-WALL. CONSTRUCTION CONTRACTOR TO FIELD VERIFY BEFORE DEMOLISHING THE UPPER TOP PORTION OF THE BIN-WALL FOR DETAIL REFER TO DRAWING NO.3
 (*) TO BE VERIFIED BY SOIL BORING TEST RESULTS.
 (**) TO BE VERIFIED IN THE FIELD
 U.S.D.A = UNITED STATES DEPARTMENT OF AGRICULTURE

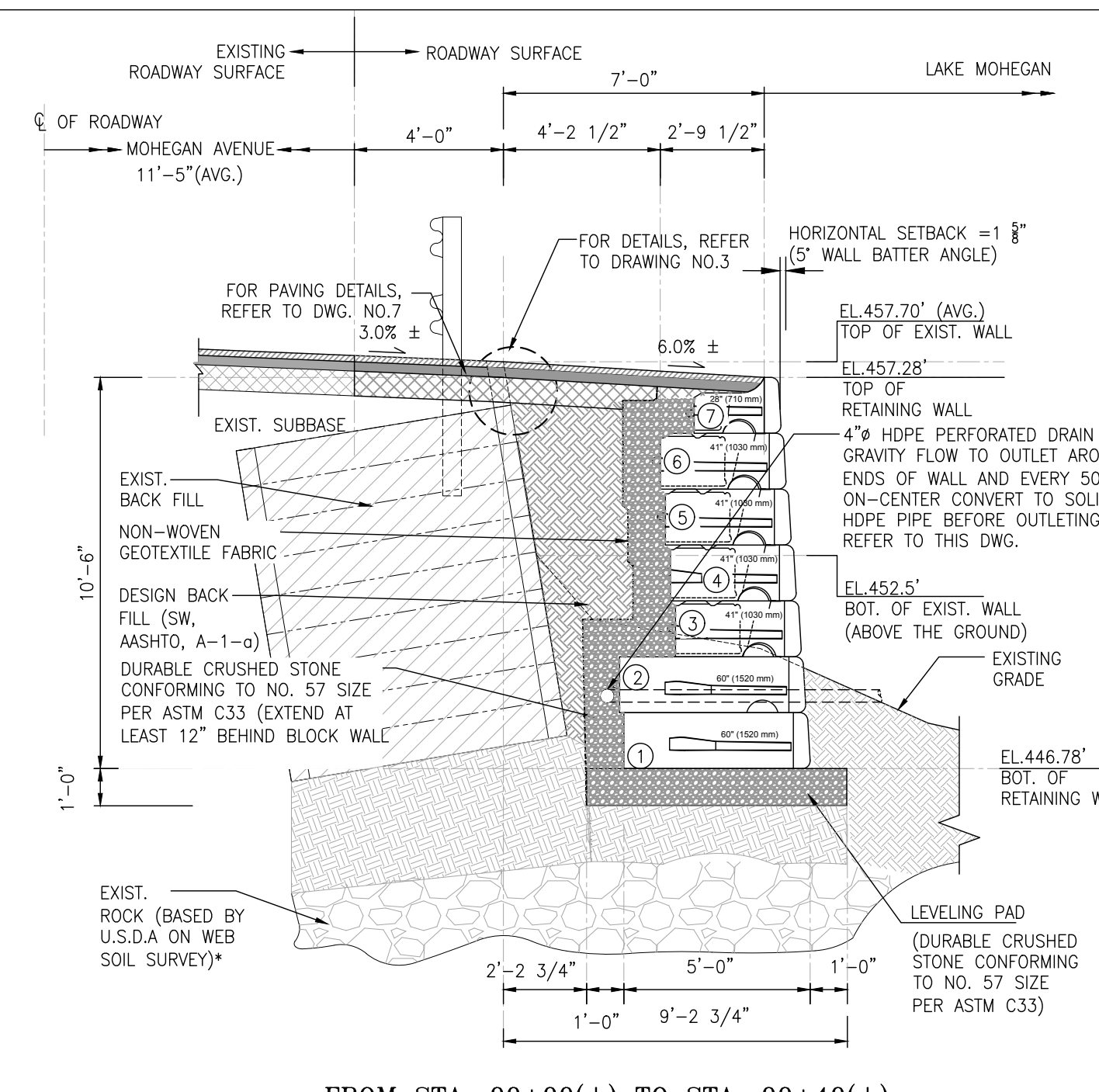
EXISTING METAL BIN-WALL
TYPICAL SECTION A
 SCALE: 1/4" = 1'-0"



PRECAST MODULAR BLOCK RETAINING WALL ELEVATION (WITH HDPE DRAIN PIPE)
 SCALE: 1/4" = 1'-0"



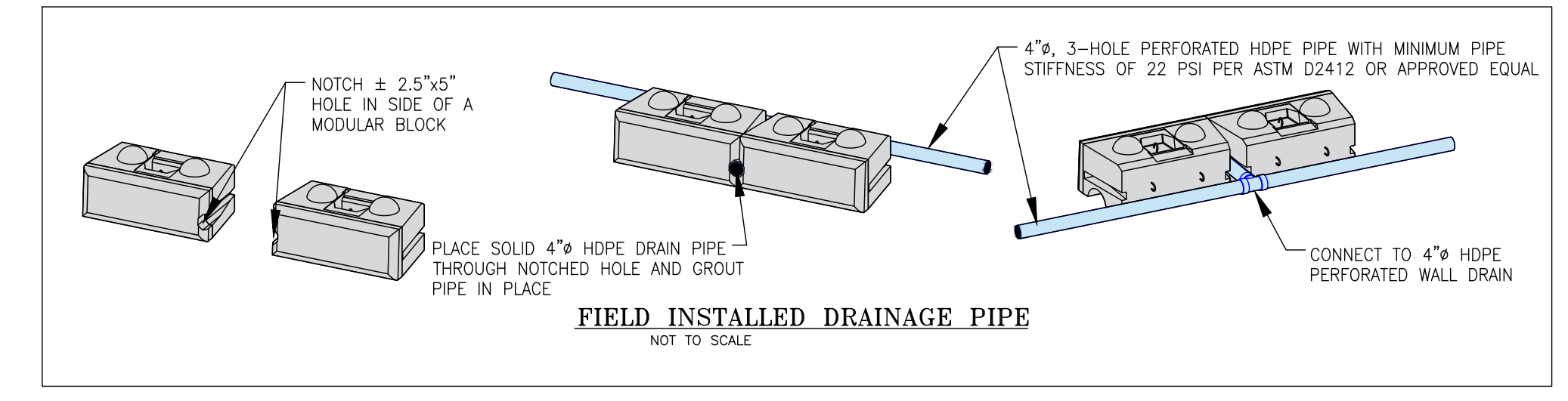
ENLARGED DETAIL NO.1
 SCALE: NOT TO SCALE



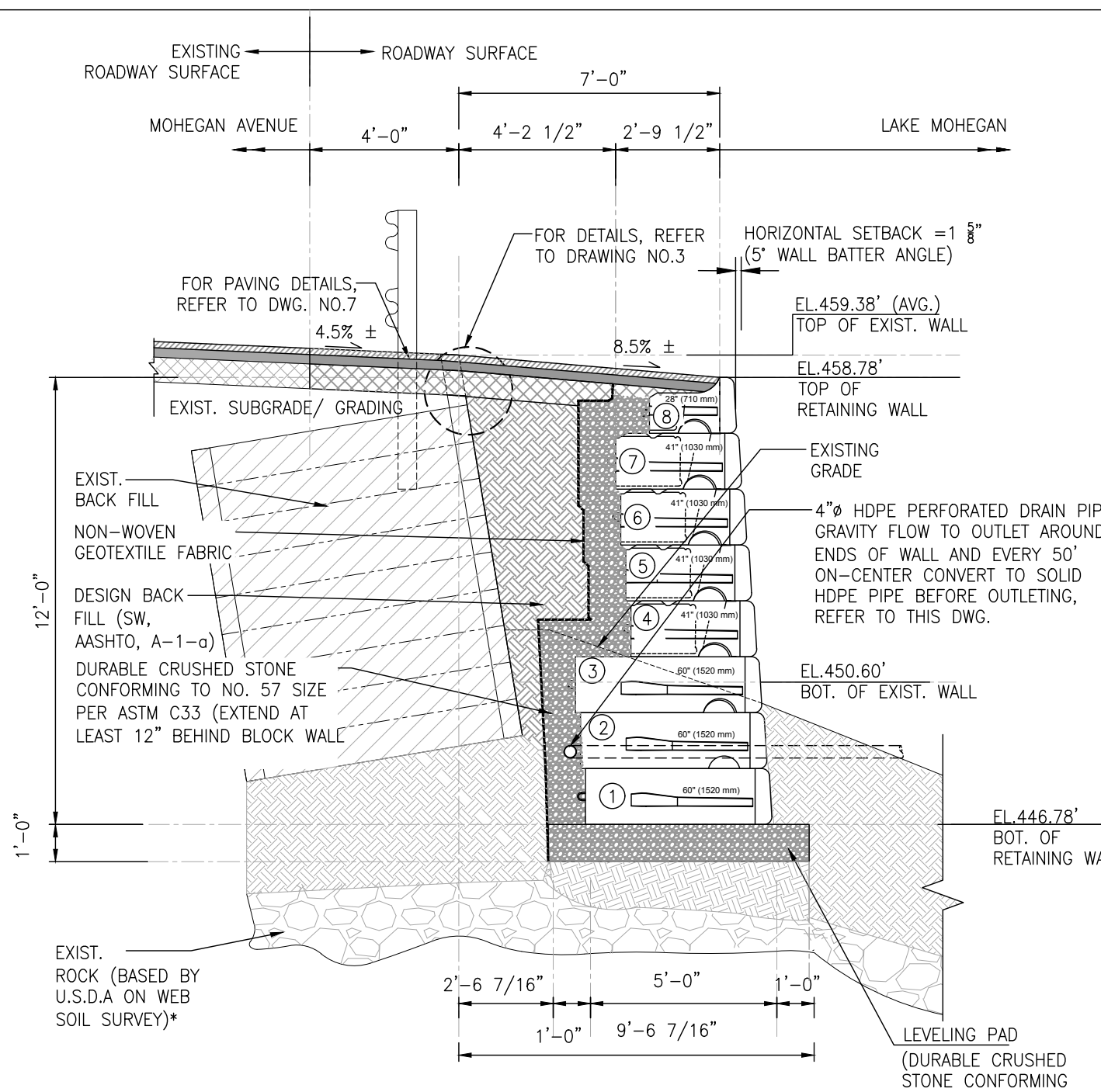
FROM STA. 00+00(±) TO STA. 00+40(±)
7 BLOCKS HIGH PRECAST MODULAR BLOCK RETAINING WALL

SECTION A
 SCALE: 1/4" = 1'-0"

BLOCK NO.	BLOCK DESCRIPTION	SETBACK	BLOCK WEIGHT (LBS)
1	60" BOTTOM BLOCK	1.625"	3346
2	60" BOTTOM BLOCK	1.625"	3346
3	41" MIDDLE BLOCK	1.625"	2237
4	41" MIDDLE BLOCK	1.625"	2237
5	41" MIDDLE BLOCK	1.625"	2237
6	41" MIDDLE BLOCK	1.625"	2237
7	28" TOP BLOCK	1.625"	1158

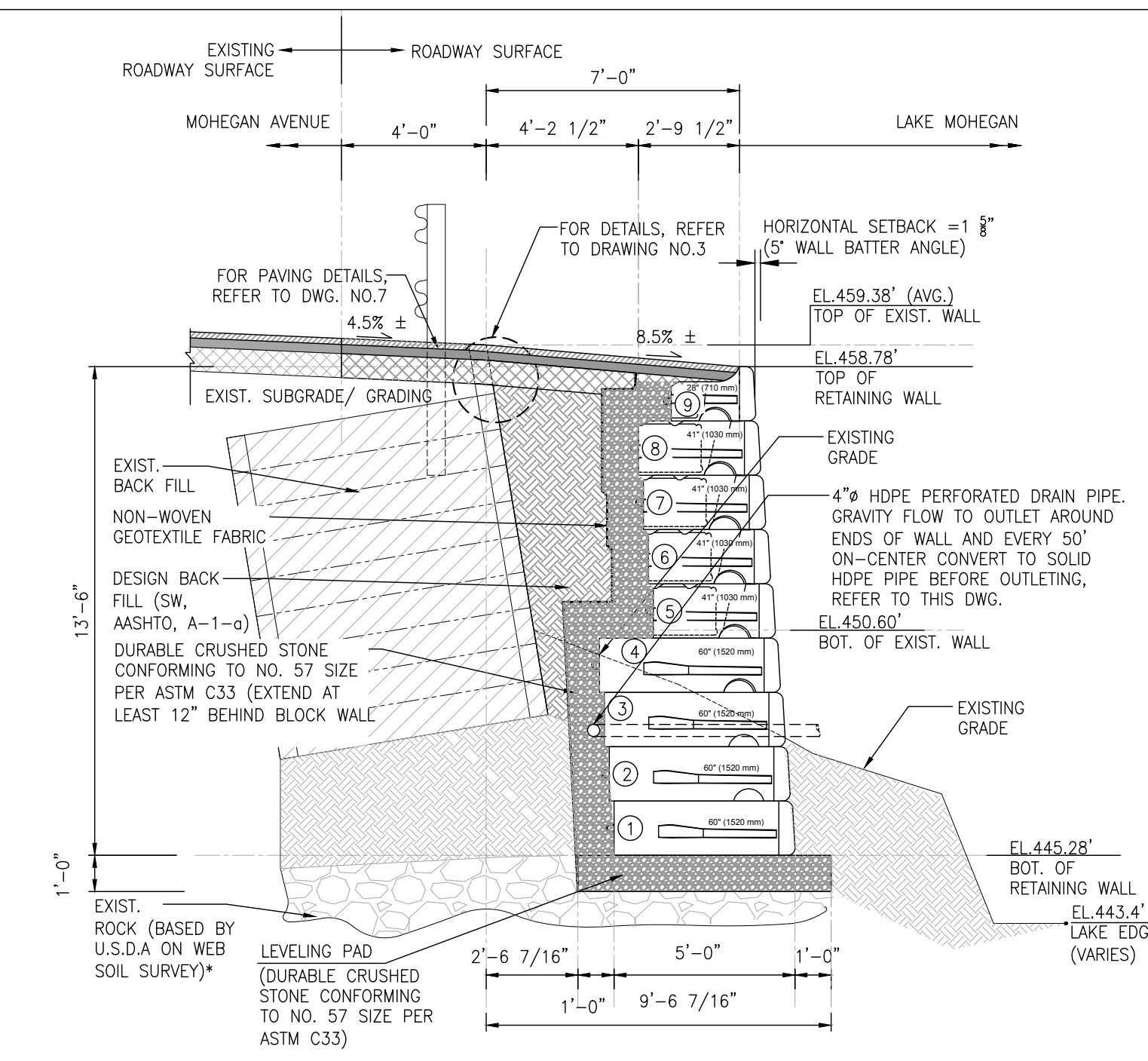


FIELD INSTALLED DRAINAGE PIPE
 NOT TO SCALE



FROM STA.00+40(±) TO STA.01+50(±)
8 BLOCKS HIGH PRECAST MODULAR BLOCK RETAINING WALL

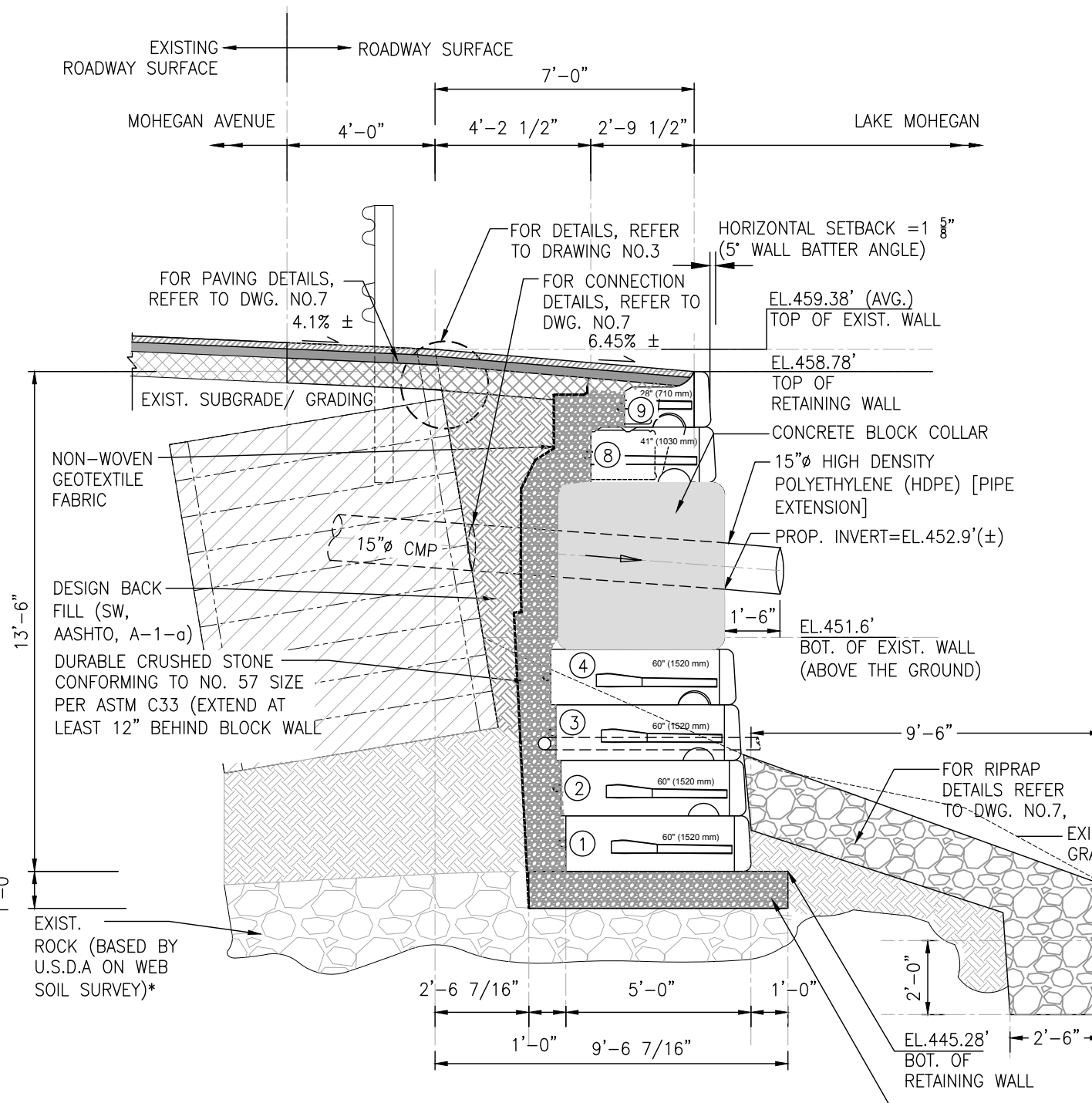
SECTION B
 SCALE: 1/4" = 1'-0"



FROM STA. 01+50(±) TO STA. 03+25(±)
9 BLOCKS HIGH PRECAST MODULAR BLOCK RETAINING WALL

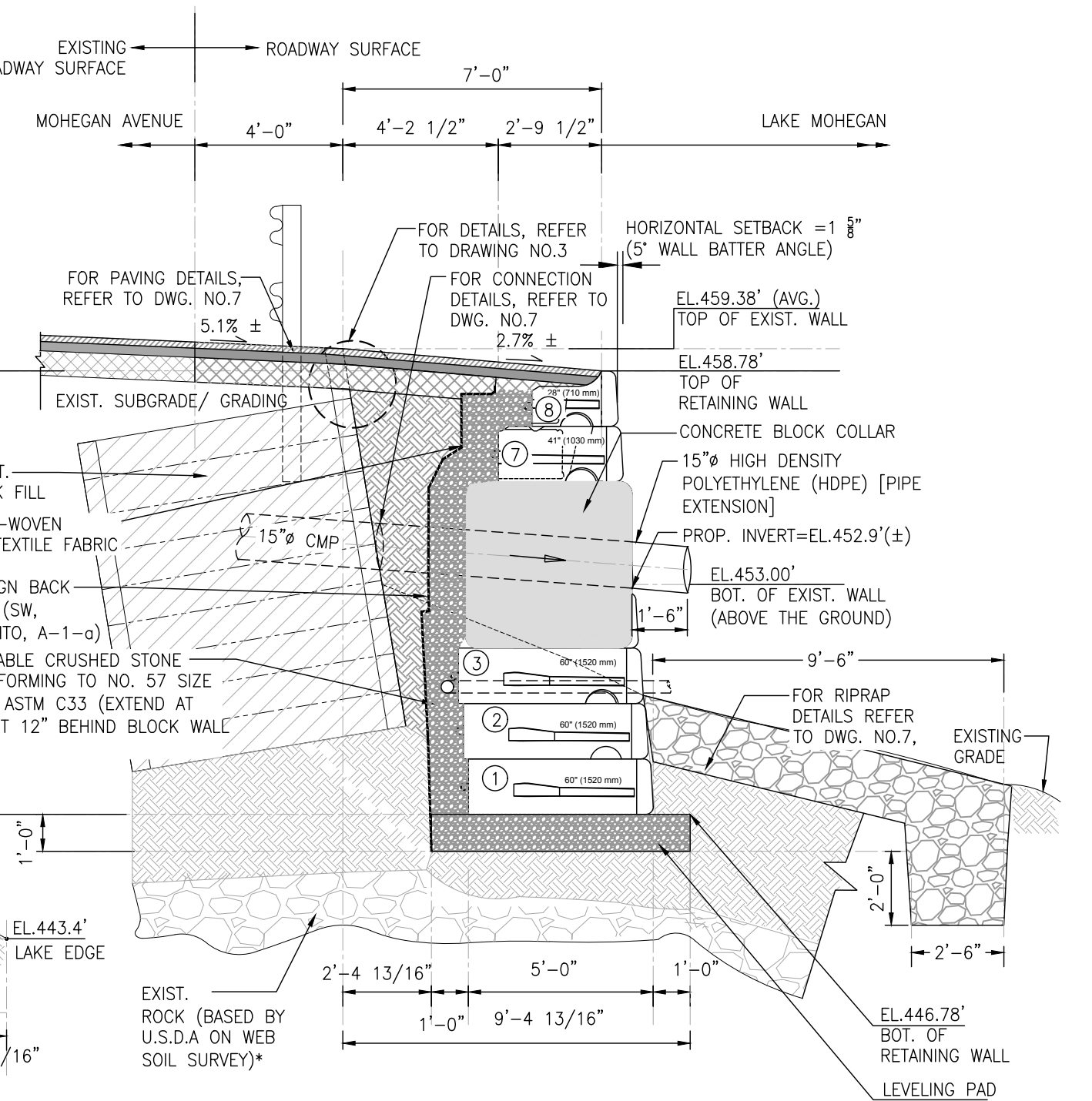
SECTION C
 SCALE: 1/4" = 1'-0"

BLOCK NO.	BLOCK DESCRIPTION	SETBACK	BLOCK WEIGHT (LBS)
1	60" BOTTOM BLOCK	1.625"	3346
2	60" MIDDLE BLOCK	1.625"	3216
3	60" BOTTOM BLOCK	1.625"	3346
4	60" MIDDLE BLOCK	1.625"	3216
5	41" MIDDLE BLOCK	1.625"	2237
6	41" MIDDLE BLOCK	1.625"	2237
7	41" MIDDLE BLOCK	1.625"	2237
8	41" MIDDLE BLOCK	1.625"	2237
9	28" TOP BLOCK	1.625"	1158



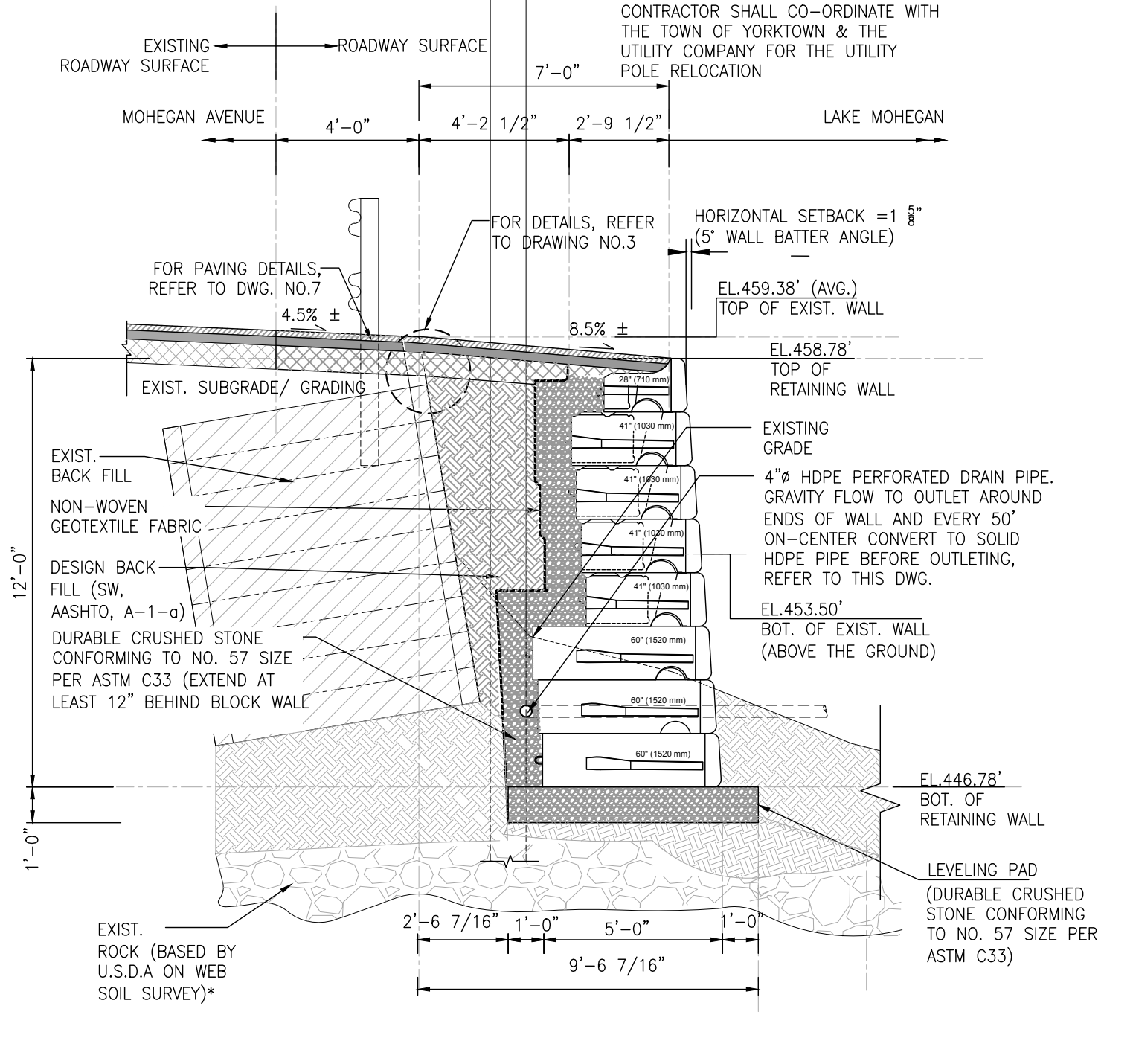
STA. 03+16(±) DRAINAGE PIPE

SECTION D
 SCALE: 1/4" = 1'-0"



STA. 05+18(±) DRAINAGE PIPE

SECTION E
 SCALE: 1/4" = 1'-0"



STA.04+28(±) & STA.05+52(±) UTILITY GUY POLES

SECTION F
 NOT TO SCALE

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TOWN OF YORKTOWN
 WESTCHESTER COUNTY, NEW YORK
MOHEGAN AVENUE
RETAINING WALL REPLACEMENT
PROJECT



PROPOSED RETAINING WALL
TYPICAL SECTIONS, ELEVATIONS
AND DETAILS

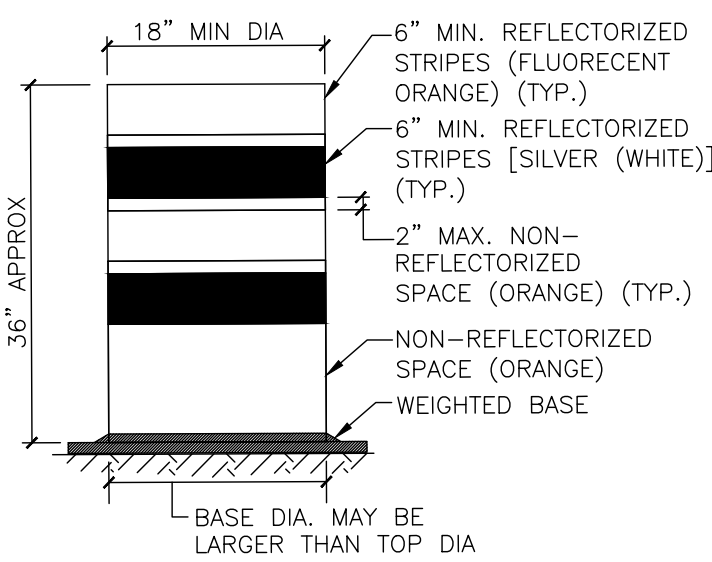
CHARLES A. MANGANARO
CONSULTING ENGINEERS
 A PROFESSIONAL CORPORATION
 303 SOUTH BROADWAY, SUITE 460, TARRYTOWN, NY 10591-5400
 SHAILESH R. NAIK, P.E.
 NEW YORK LICENSE NO. 072797-1

SCALE: AS SHOWN
 JOB No. 1893D
 CONTRACT No. 18 - 1
 DRAWING No. 5

No.	REVISION/ISSUE	DATE
1	ISSUED FOR BID	01/15/2018

DESIGNED BY: AK/ST
 DRAWN BY: AK
 CHECKED BY: ST

APPROVED BY:
 DATE: 02/22/2019



DRUMS SHALL BE MADE OF ORANGE PLASTIC WITH A MINIMUM OF FOUR ALTERNATE FLUORESCENT ORANGE AND SILVER (WHITE) REFLECTORIZED STRIPES, THEY SHALL BE NO MORE THAN 2" WIDE. RETROREFLECTIVE SHEETING FOR STRIPES SHALL CONFORM WITH ASTM D 4956 S2 REQUIREMENTS AND SHALL BE FROM THE APPROVED PRODUCTS LIST MAINTAINED BY THE BUREAU OF QUALITY MANAGEMENT SERVICES, NEW TECHNOLOGY AND PRODUCT SECTION.

THE TOP OF THE DRUM SHALL NOT BE OPEN. DRUMS SHALL BE CONSTRUCTED TO INHIBIT ROLLING IF KNOCKED OVER. THE REFLECTORIZED AREA OF THE DRUMS SHALL BE ROUND EXCEPT THAT OTHER SHAPES WHICH PROVIDE THE VISIBILITY AS AN 18" DIAMETER ROUND DRUM REGARDLESS OF ORIENTATION, MAY BE USED IF APPROVED BY THE BUREAU OF MATERIALS.

WHEN BALLAST IS REQUIRED BY THE ENGINEER, SAND SHALL BE USED. THE MAXIMUM WEIGHT OF THE BALLAST SHALL BE 50 LBS AND BE LOCATED APPROXIMATELY AT GROUND LEVEL.

DRUM DETAILS
NOT TO SCALE

VOLTAGE: 6 VOLTS
LIGHT TYPE: FLASHING
LENS COLOR: ORANGE
MODEL: T-42-400 LED
MANUFACTURE:
BY TRAFFIC SAFETY DIVISION
OF DISCOVERY SYSTEM INC.
BOHEMA, NY 11716
T: 613-637-2005
F: 631-980-4095
WWW.TRAFFICSAFETYEXPERT.COM

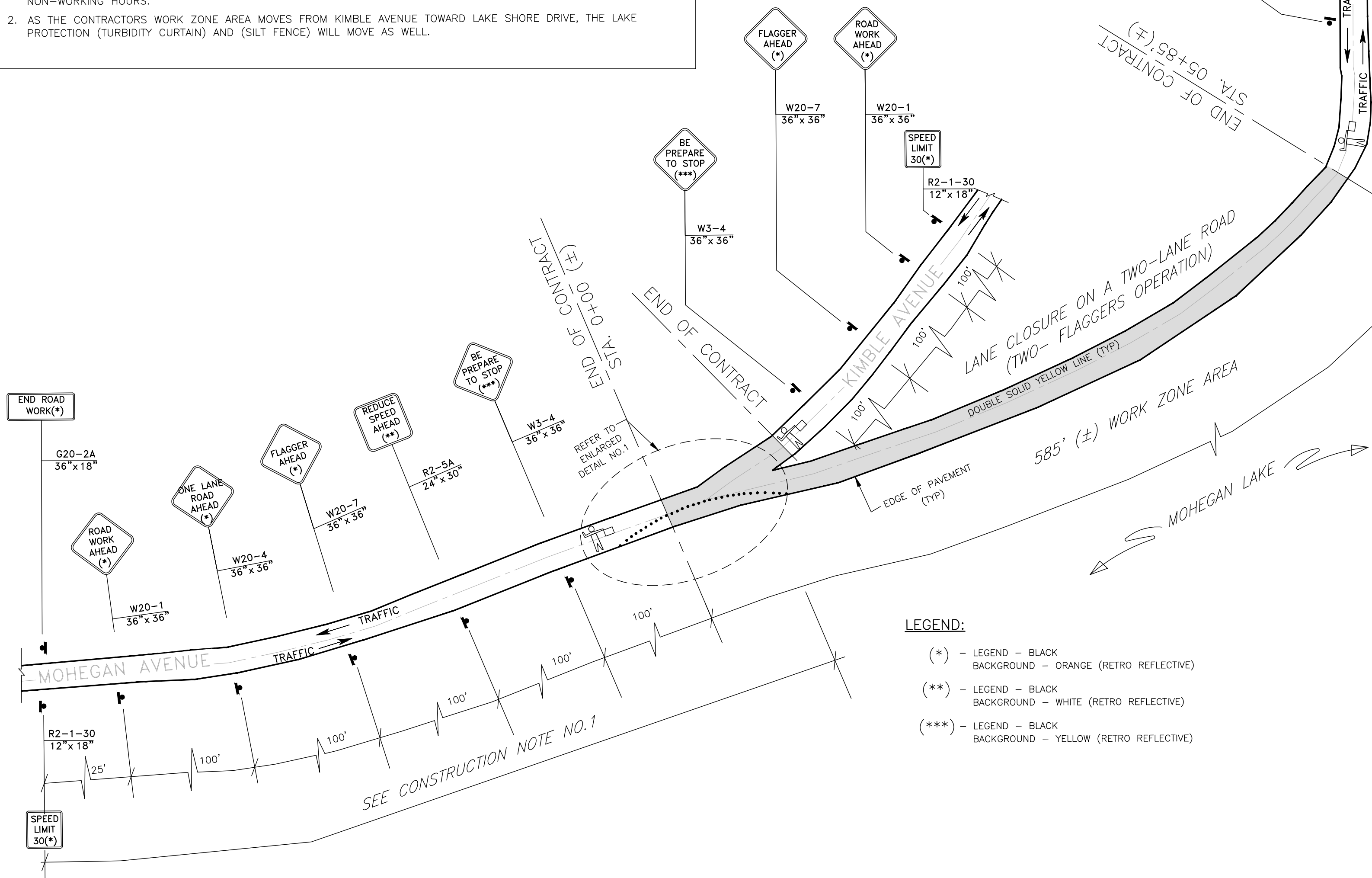
STANDARD LED BARRICADE LIGHT
NOT TO SCALE

CONSTRUCTION NOTE:

- AS CONSTRUCTION WORK PROCEEDS FROM STATION 00+00 TOWARD STATION 05+85, GOING SOUTH ON MOHEGAN AVENUE, THE CONTRACTOR IS TO CONTINUOUSLY MOVE THE ENTIRE TRAFFIC CONTROL SIGNAGE, TRAFFIC DRUMS, TAPERED AREA, BUFFER ZONE, WORK ZONE AND TERMINATION AREA ALONG THE CONSTRUCTION ROUTE. AS SHOWN IN THE ENLARGED DETAIL NO.1, THE ENGINEER SUGGESTED WORK ZONE AREA OF 100' (MIN) TO 200' (MAX). THE CONTRACTOR IS TO MAINTAIN AT LEAST TWO (2) TO THREE (3) EXPERIENCE FLAGGERS AT ALL TIMES DURING THE CONSTRUCTION PHASE. AT THE END OF EACH WORK DAY, THE CONTRACTOR IS TO COVER ALL THE TRAFFIC CONTROL SIGNAGE ON THE NORTH & SOUTH BOUND LANES OF MOHEGAN AVENUE AND REMOVE ALL TRAFFIC DRUMS AS WELL. ANY OPENING IN THE NYDOT GUIDE RAIL SYSTEM DURING CONSTRUCTION OF THE PROPOSED RAILING WALL SYSTEM, THE CONTRACTOR IS TO INSTALL TEMPORARY NYDOT CONCRETE BARRIER IN ITS PLACE DURING NON-WORKING HOURS.
- AS THE CONTRACTORS WORK ZONE AREA MOVES FROM KIMBLE AVENUE TOWARD LAKE SHORE DRIVE, THE LAKE PROTECTION (TURBIDITY CURTAIN) AND (SILT FENCE) WILL MOVE AS WELL.

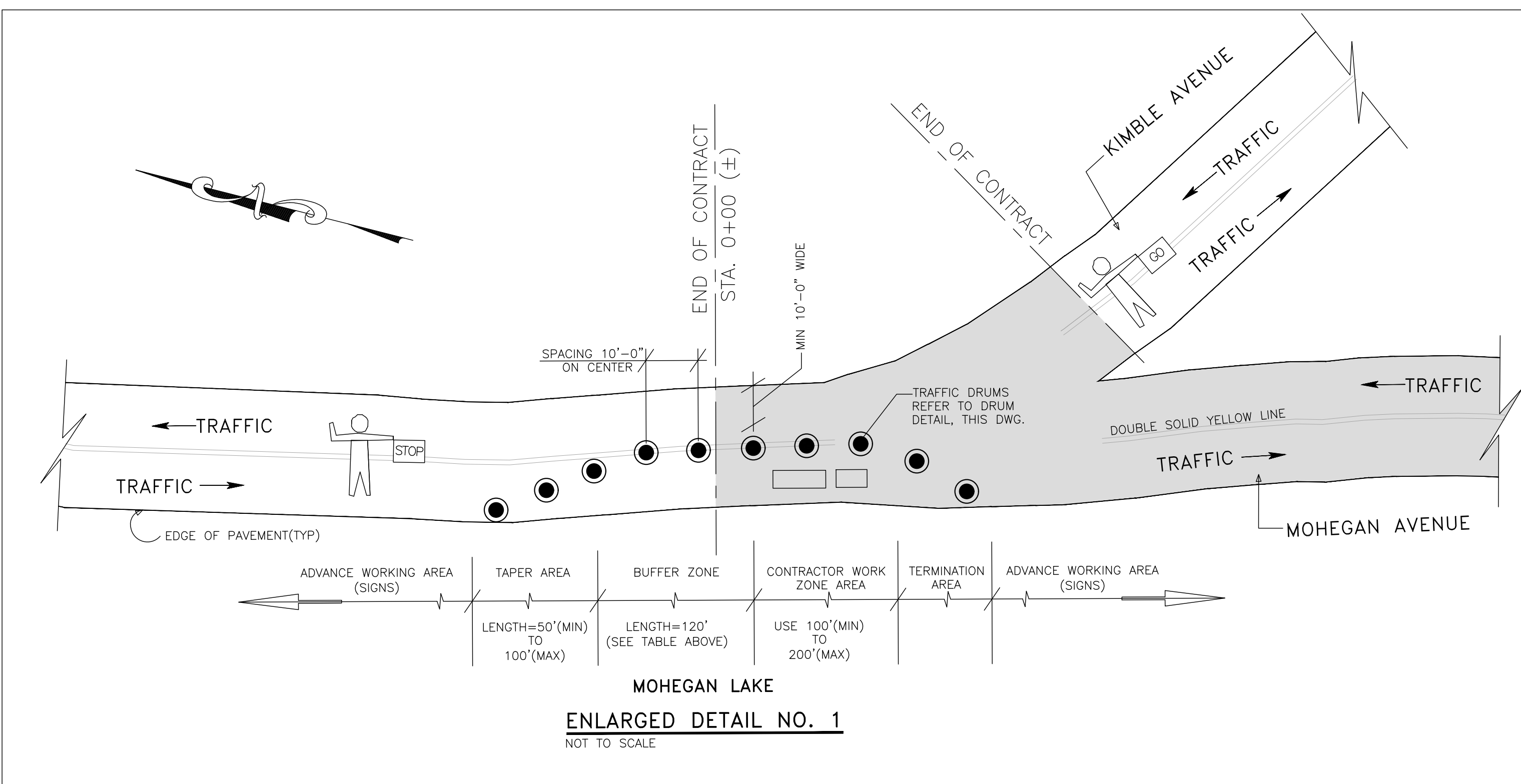
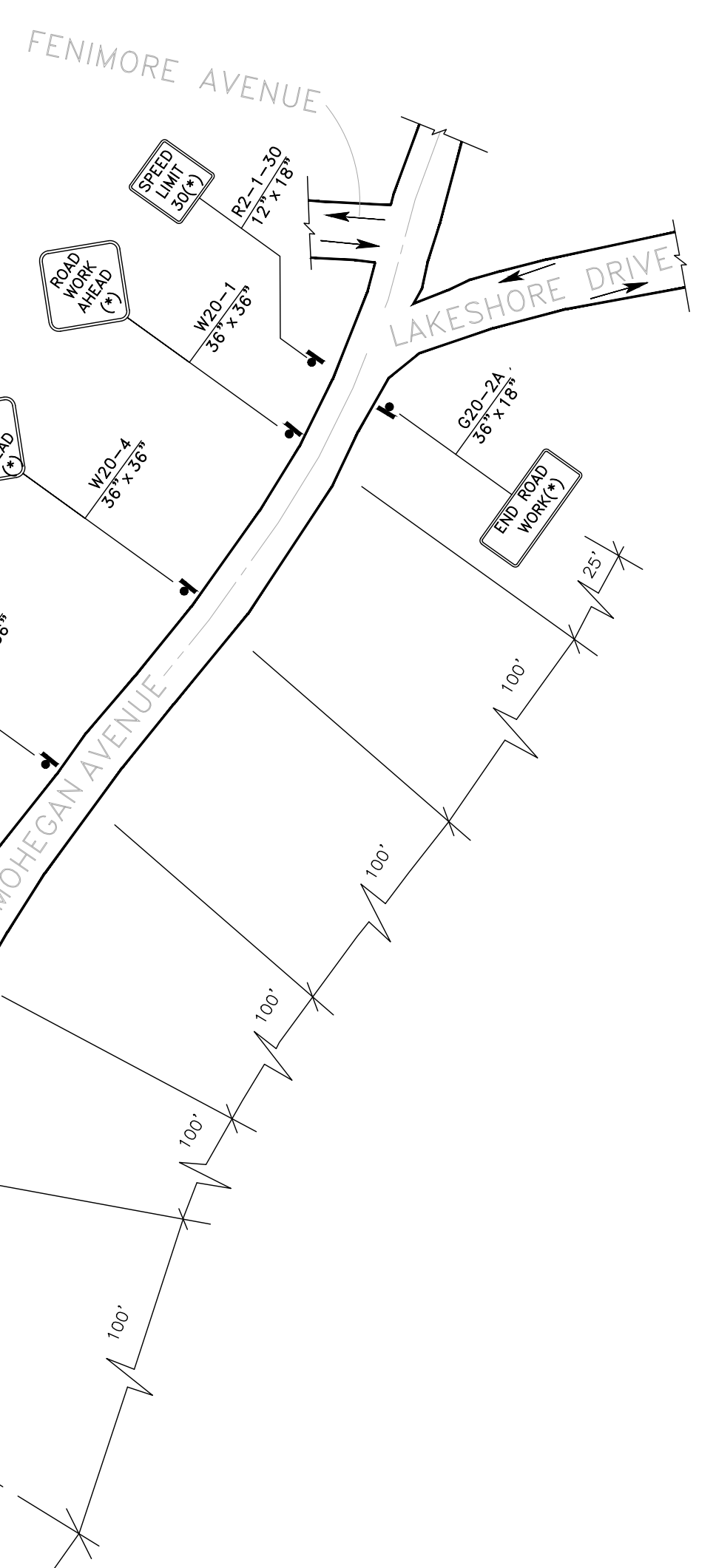
"TABLE"
GUIDELINES FOR BUFFER LENGTHS

SPEED (MPH)	LENGTH (FT)
20	35
25	55
30	85
35	120
40	170
45	220
50	280
55	335
60	415



LEGEND:

- (*) - LEGEND - BLACK BACKGROUND - ORANGE (RETRO REFLECTIVE)
- (**) - LEGEND - BLACK BACKGROUND - WHITE (RETRO REFLECTIVE)
- (***) - LEGEND - BLACK BACKGROUND - YELLOW (RETRO REFLECTIVE)



NOTES

DURING WORKING HOURS (FROM 7:30 A.M TO 5:30 P.M - MONDAY THROUGH FRIDAY) SOUTH BOUND LANE WILL BE CLOSED. DURING NON WORKING HOURS, BOTH LANES ARE OPEN TO THE PUBLIC AND ALL TRAFFIC CONTROL MEASURES (DRUMS, SIGNS, ETC.) ARE EITHER COVERED OR REMOVED FROM THE JOB SITE.

WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF THE NEW YORK STATE LAW SECTION 7209.2.

TOWN OF YORKTOWN
WESTCHESTER COUNTY, NEW YORK

MOHEGAN AVENUE
RETAINING WALL REPLACEMENT
PROJECT



TRAFFIC CONTROL PLAN
AND DETAILS
DURING CONSTRUCTION
OF RETAINING WALL

CHARLES A. MANGANARO
CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION

303 SOUTH BROADWAY, SUITE 460, TARRYTOWN, NY 10591-5400

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

SCALE: N.T.S

JOB No. 1893D

CONTRACT No. 18 - 1

DRAWING No. 6

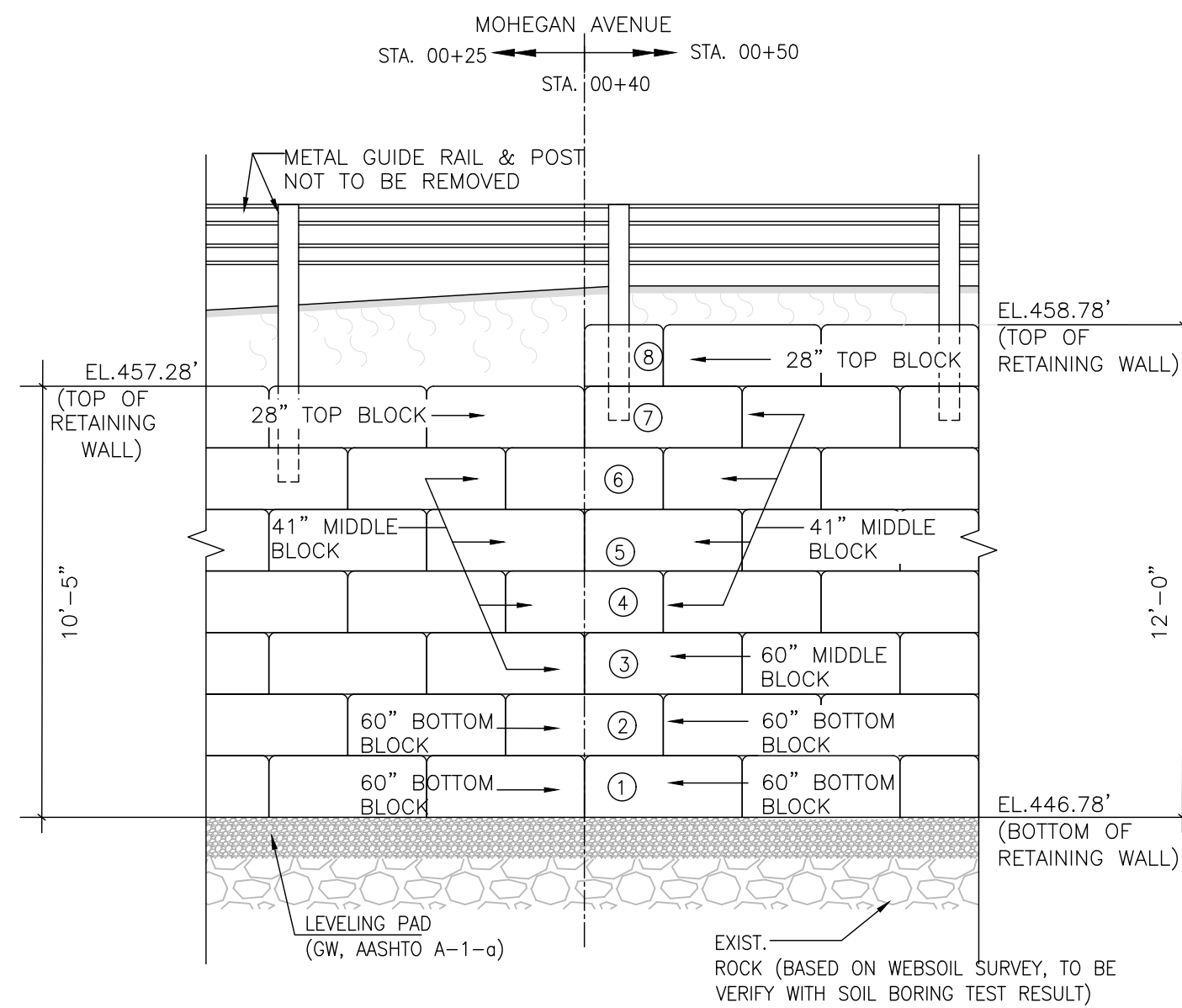
1	ISSUED FOR BID	01/15/2018
No.	REVISION/ISSUE	DATE
DESIGNED BY:	ST	
DRAWN BY:	AK	
CHECKED BY:	ST	

APPROVED BY:

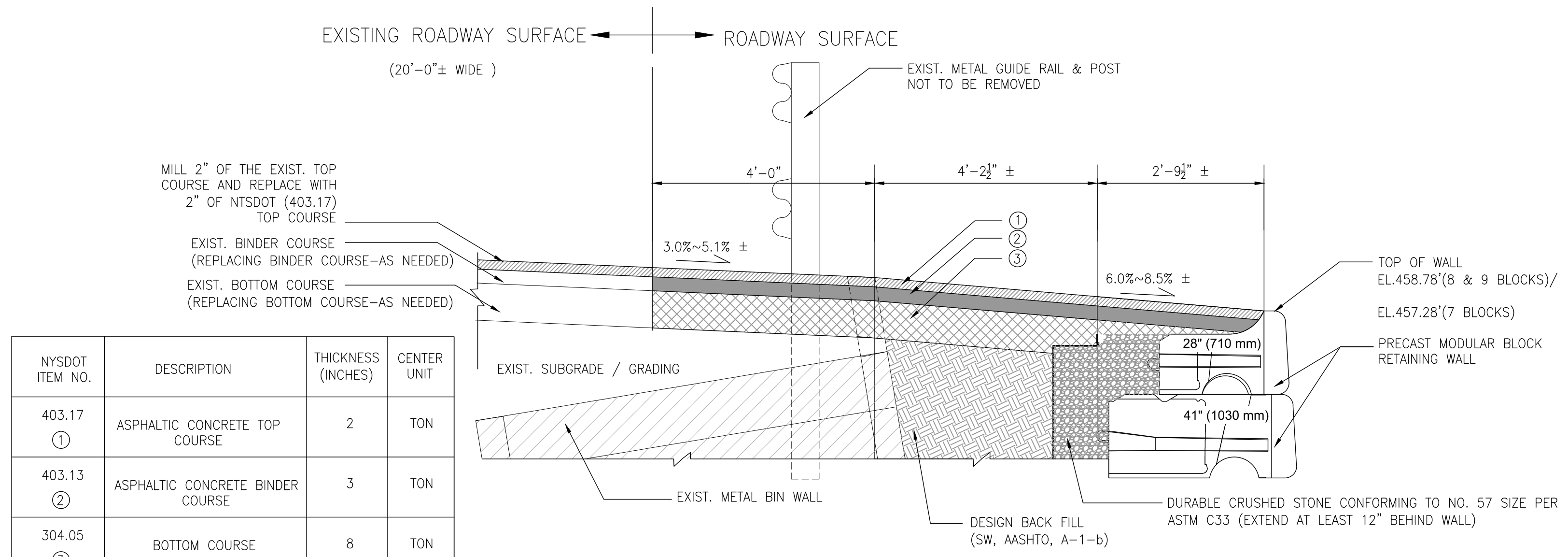
DATE: 02/22/2019

TREE NO.	TREE LOCATION	TREE/STUMPS TO BE REMOVED		COMMENTS
	(STA.)	(YES)	(NO)	
1	00+13		✓	
2	00+18		✓	
3	00+55	✓		
4	00+70	✓		
5	00+81	✓		
6	00+92		✓	
7	01+07	✓		
8	01+18	✓		
9	01+40	✓		
10	01+58	✓		
11	01+73	✓		
12	01+92	✓		CLUSTER OF TREES
13	02+06	✓		
14	02+18		✓	
15	02+63	✓		
16	02+83	✓		CLUSTER OF TREES
17	02+95		✓	
18	03+11	✓		
19	03+17	✓		
20	03+20	✓		
21	03+35	✓		CLUSTER OF TREES
22	03+55	✓		
23	03+66	✓		
24	04+22	✓		
25	04+30	—	—	GUY POLE RELOCATED BY UTILITY CO.
26	04+37	✓		
27	04+57	✓		
28	04+60	✓		
29	04+70		✓	
30	04+95	✓		
31	05+02		✓	
32	05+13	✓		
33	05+22	✓		
34	05+30	✓		
35	05+54	—	—	GUY POLE RELOCATED BY UTILITY CO.

TABLE NO.1 TREE AND STUMP REMOVAL
NOT TO SCALE



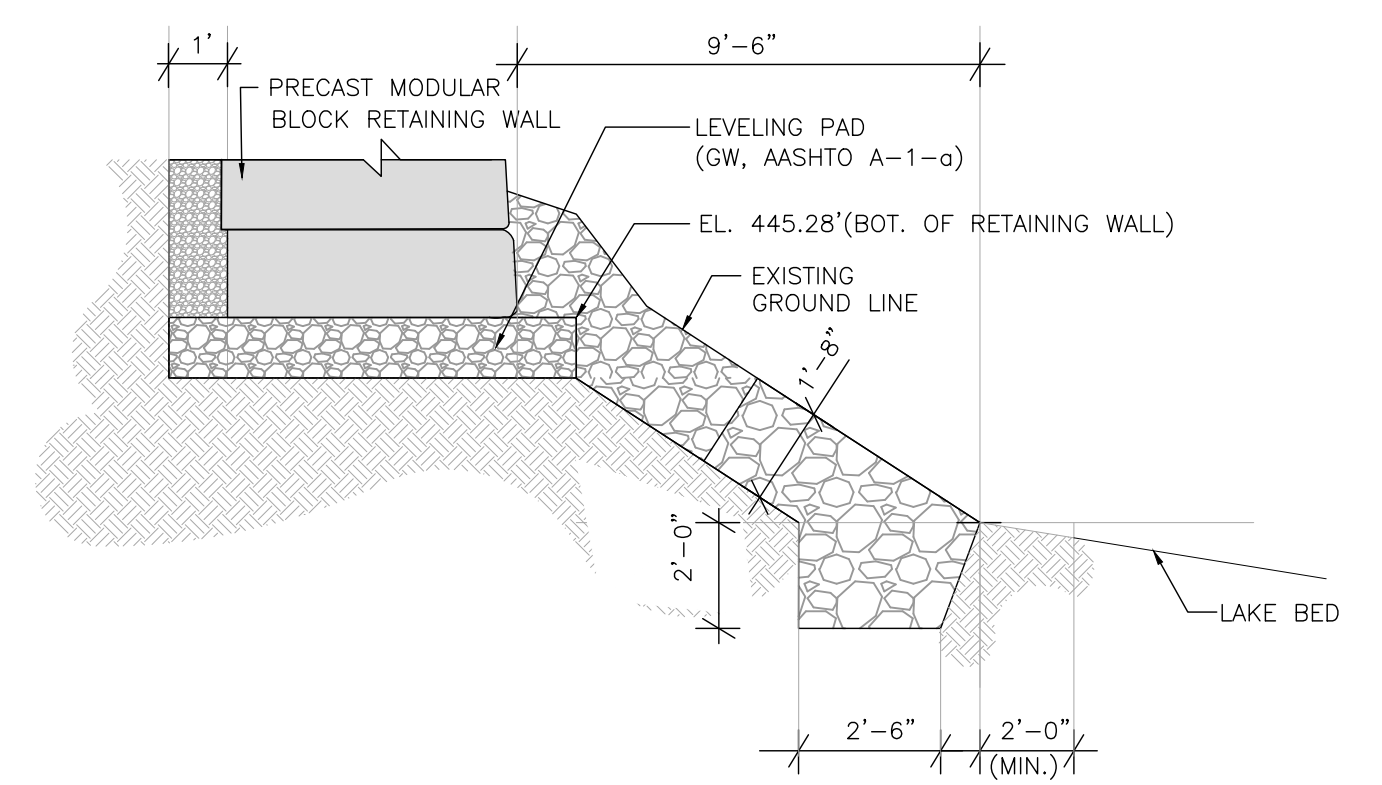
DETAIL NO. 1
7 BLOCKS TO 8 BLOCKS HIGH RETAINING WALL DETAIL
NOT TO SCALE



NYSOT ITEM NO.	DESCRIPTION	THICKNESS (INCHES)	CENTER UNIT
403.17 ①	ASPHALTIC CONCRETE TOP COURSE	2	TON
403.13 ②	ASPHALTIC CONCRETE BINDER COURSE	3	TON
304.05 ③	BOTTOM COURSE	8	TON

TABLE NO. 1 TOWN OF YORKTOWN PAVEMENT REQUIREMENT

PAVING DETAILS
NOT TO SCALE

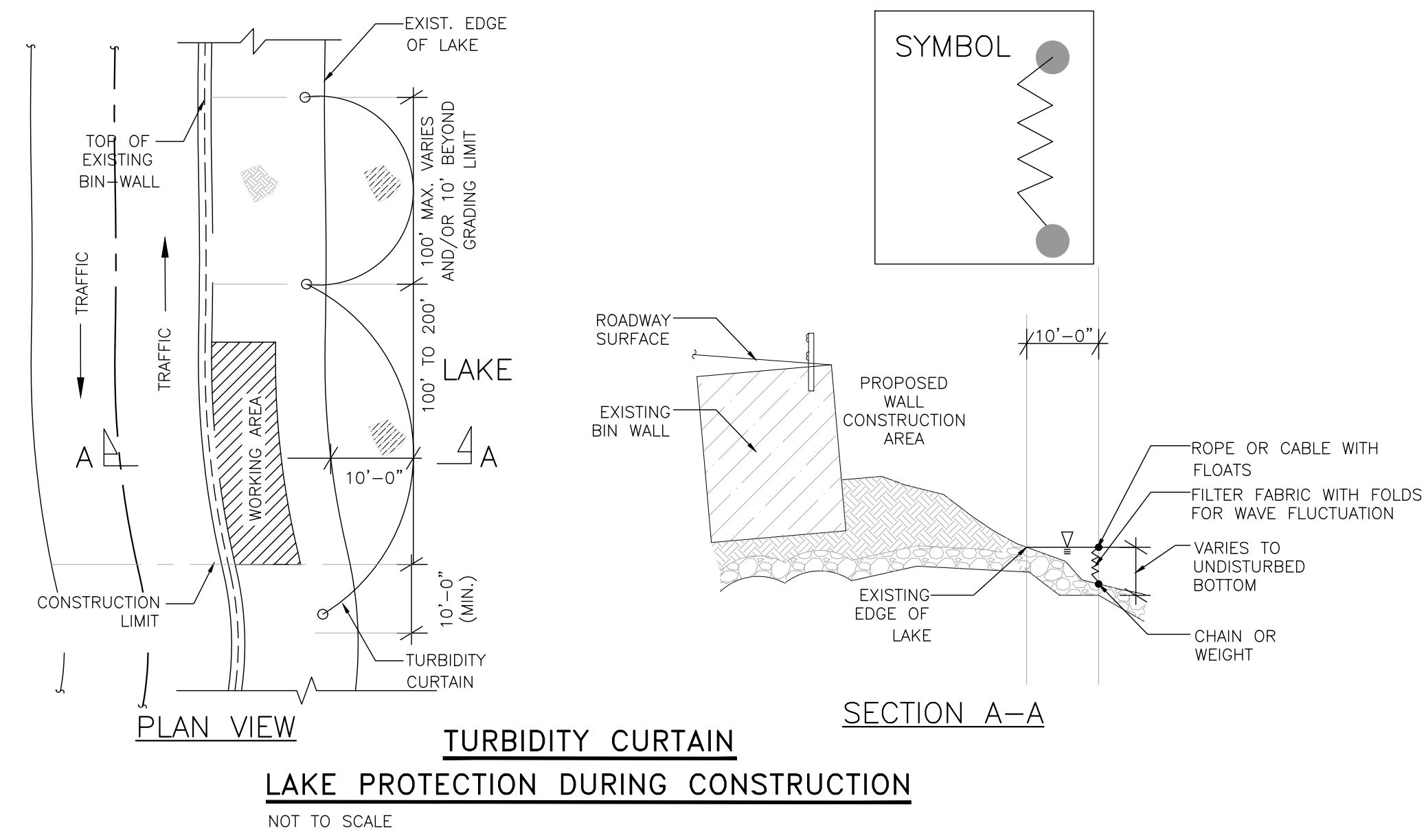


CLASS	LAYER	WAVE THICKNESS (IN)	D10		D50		D85		D100	
			WT. (LBS)	DS (IN)	WT. (LBS)	DS (IN)	WT. (LBS)	DS (IN)	WT. (LBS)	DS (IN)
1	1'-8"	-	5	5	50	10	100	13	150	15

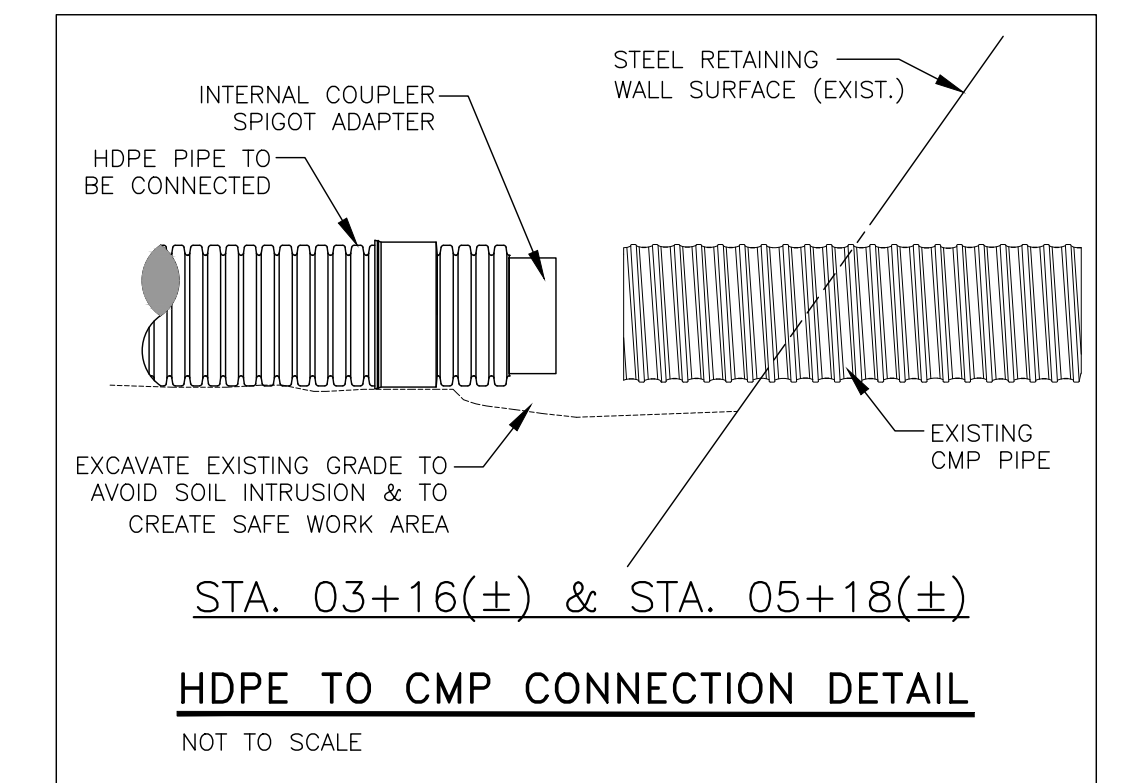
- CONSTRUCTION SPECIFICATION**
- SLOPE SHALL BE GRADED TO 2:1 OR FLATTER PRIOR TO PLACING FILTER, FILTER FABRIC OR RIPRAP.
 - RIPRAP SHALL BE PLACED TO MAINTAIN A UNIFORM GRADATION, LARGER STONE SHALL BE PLACED AT THE TOE.
 - END OF THE RIPRAP SHALL BE KEYED INTO A STABLE BANK. WHEN TYING INTO OTHER STRUCTURES, LARGER RIPRAP CAN BE LAID IN STEPS OR STACKED AS NEEDED TO FIT. STONES LARGER THAN THOSE DESIGNED FOR FLOW SHALL BE USED FOR THIS PURPOSE.
 - REMAINING DISTURBED AREAS SHALL BE GRADED AND PERMANENTLY SEEDED AND MULCHED.

STA.03+16'(±) & STA.05+18'(±)

RIPRAP STREAMBANK PROTECTION DETAIL
NOT TO SCALE



TURBIDITY CURTAIN
LAKE PROTECTION DURING CONSTRUCTION
NOT TO SCALE



STA. 03+16(±) & STA. 05+18(±)
HDPE TO CMP CONNECTION DETAIL
NOT TO SCALE

WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF THE NEW YORK STATE LAW SECTION 7209.2.

TOWN OF YORKTOWN
WESTCHESTER COUNTY, NEW YORK

MOHEGAN AVENUE
RETAINING WALL REPLACEMENT
PROJECT



DETAILS
SHEET 1 OF 1

CHARLES A. MANGANARO
CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION

303 SOUTH BROADWAY, SUITE 460, TARRYTOWN, NY 10591-5400.

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

SCALE: N.T.S		
JOB No. 1893D		
CONTRACT No. 18 - 1	1 ISSUED FOR BID	01/15/2018
DRAWING No. 7	No. REVISION/ISSUE	DATE
	DESIGNED BY: ST/AK	
	DRAWN BY: AK	
	CHECKED BY: ST	

APPROVED BY:

DATE: 02/22/2019