

NOTES

GENERAL

- WHEN REFERRED TO THE ENGINEER SHALL BE A REPRESENTATIVE OF SESI CONSULTING ENGINEERS.
 - SESI CONSULTING ENGINEERS HAS BEEN RETAINED TO PROVIDE SPECIAL INSPECTIONS OF THE SOLDIER BEAM AND LAGGING SYSTEM AS SHOWN ON THESE DRAWINGS.
 - PROPER NOTICES SHALL BE GIVEN TO THE SPECIAL INSPECTION AGENCY BY THE OWNER'S REPRESENTATIVE FOR THE PERFORMANCE OF THE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1704.2 OF THE 2020 EDITION OF THE BUILDING CODE OF NEW YORK STATE.
 - NOTICE SHALL BE PROVIDED TO ADJOINING PROPERTY OWNERS BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION IN ACCORDANCE WITH LOCAL AND STATE CODES.
 - ALL WORK PERFORMED IN CONNECTION WITH SUPPORT OF EXCAVATION SYSTEM SHOWN ON THESE DRAWINGS SHALL ADHERE TO THE APPLICABLE PROVISIONS OF THE LOCAL GOVERNING AGENCY, THE 2020 EDITION OF THE BUILDING CODE OF NEW YORK STATE, REGULATIONS OF THE NEW YORK STATE DEPARTMENT OF LABOR, AND REQUIREMENTS OSHA.
 - SESI CONSULTING ENGINEERS HAS BEEN RETAINED TO PERFORM SPECIAL INSPECTIONS FOR THE WORK SHOWN ON THESE DRAWINGS, SPECIFICALLY:
 - EXCAVATION - SHEETING, SHORING AND BRACING
 - PERIMETER FENCING AND OTHER PROTECTION SHALL BE PROVIDED ALONG THE PERIMETER OF THE CONSTRUCTION SITE BOTH DURING AND AFTER WORKING HOURS. PROPERLY MARKED AND LIGHTED. SOE DRAWINGS DO NOT ADDRESS TRAFFIC OR PEDESTRIAN SAFETY, THIS IS TO BE DESIGNED BY OTHERS.
 - SESI CONSULTING ENGINEERS SHALL BE ADVISED OF CONFLICTS BETWEEN THIS DRAWING AND ACTUAL FIELD CONDITIONS. PARTICULARLY HORIZONTAL CLEARANCES TO EXISTING CONSTRUCTION. ELEVATIONS OF COMPLETED CONSTRUCTION ARE SHOWN FOR GUIDANCE ONLY. THESE DRAWINGS SHALL BE WORKED IN CONJUNCTION WITH THE CONTRACT DRAWINGS TO ASSURE PROPER CONSTRUCTION.
 - PRIOR TO COMMENCEMENT OF INSTALLATION OF SOLDIER BEAM AND LAGGING SYSTEM:
 - THE OWNERS REPRESENTATIVE IS TO OBTAIN WRITTEN PERMISSION FROM OWNERS OF ALL ADJOINING STRUCTURES OR PROPERTIES FOR ACCESS TO THE PROPERTIES IN ORDER TO PROVIDE PROTECTION, DURING INSTALLATION OF SOLDIER BEAMS AND LAGGING, THE UNDERPINNING OPERATION AND THE MASS EXCAVATION.
 - MAKE VISUAL INSPECTION WITH PHOTO DOCUMENTATION OF ALL ADJOINING STRUCTURES.
 - MONITORING OF EXISTING STRUCTURES TO BE PERFORMED BY THE OWNER.
 - MONITORING OF EXISTING STRUCTURES INCLUDES VERTICAL AND HORIZONTAL MONITORING, CRACK MONITORING, AND VIBRATION MONITORING.
 - ANY WATER INFLOW INTO THE EXCAVATION AND GROUNDWATER SHALL BE CONTROLLED IN SUCH A MANNER THAT THE WATER LEVEL SHALL BE MAINTAINED AT LEAST 2-FOOT BELOW THE BOTTOM OF ANY LEVEL OF EXCAVATION ADJACENT TO THE SOLDIER BEAM AND LAGGING.
 - A COMPETENT PERSON WHO IS A REPRESENTATIVE OF THE CONTRACTOR SHALL INSPECT THE SUBGRADE OF THE EXCAVATION, ALL BRACING AND BLOCKING AND EXISTING ADJACENT STRUCTURES AS NECESSARY AND AT THE COMMENCEMENT OF EACH SHIFT, TO ASSURE INTEGRITY, PRIOR TO PERMITTING WORKMAN TO WORK WITHIN THE AREA PROTECTED BY THE TEMPORARY PERIMETER RETAINING SYSTEMS.
- OSHA 29CRF 1926.650 & 1926.651 ET. SEQ.

1926.651(K)(1)

"DAILY INSPECTIONS OF EXCAVATIONS, THE ADJACENT AREAS, AND PROTECTIVE SYSTEMS SHALL BE MADE BY A COMPETENT PERSON FOR EVIDENCE OF A SITUATION THAT COULD RESULT IN POSSIBLE CAVE-INS, INDICATION OF FAILURE OF PROTECTIVE SYSTEMS, HAZARDOUS ATMOSPHERES, OR OTHER HAZARDOUS CONDITIONS. AN INSPECTION SHALL BE CONDUCTED BY A COMPETENT PERSON PRIOR TO THE START OF WORK AND AS NEEDED THROUGHOUT THE SHIFT. INSPECTIONS SHALL ALSO BE MADE AFTER EVERY RAINSTORM OR OTHER HAZARD INCREASING OCCURRENCE. THESE INSPECTIONS ARE ONLY REQUIRED WHEN EMPLOYEE EXPOSURE CAN BE REASONABLY ANTICIPATED."

1926.650 (B)

"COMPETENT PERSON" MEANS ONE WHO IS CAPABLE OF IDENTIFYING EXISTING AND PREDICTABLE HAZARDS IN THE SURROUNDS, OR WORKING CONDITIONS WHICH ARE UNSANITARY, HAZARDOUS, OR DANGEROUS TO EMPLOYEES, AND WHO HAS AUTHORIZATION TO TAKE PROMPT CORRECTIVE MEASURES TO ELIMINATE THEM."

- STRUCTURAL INFORMATION SHOWN IS FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWINGS FOR ALL NEW BUILDING INFORMATION.
- SITE LAYOUT INFORMATION INCLUDING EXISTING GRADES OBTAINED FROM TOPOGRAPHIC SURVEY SOIL TEST LOCATION PLAN PREPARED BY JMC SITE DEVELOPMENT CONSULTANTS, LLC., DATED FEBRUARY 6, 2018, REVISED FEBRUARY 28, 2018.
- THIS ENGINEER HAS MADE NO FIELD VERIFICATION OF EXISTING SITE GRADES OR SITE UTILITIES. THE ENGINEER SHALL BE ADVISED OF ANY CONFLICTS BETWEEN THIS DRAWING AND ACTUAL FIELD CONDITIONS. PARTICULARLY HORIZONTAL CLEARANCES TO EXISTING STRUCTURES.

MATERIALS

- MATERIAL FOR SOLDIER BEAMS SHALL MEET THE REQUIREMENTS N80 PIPE. ALL STEEL SECTIONS SHALL BE NEW MATERIAL AND MILL CERTIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- ALL PLATES, MISCELLANEOUS BRACKETS, STIFFENERS, WALERS ETC. SHALL MEET THE REQUIREMENTS OF ASTM A572 GRADE 50
- ALL WELDING ELECTRODES SHALL CONFORM TO A.W.S. STANDARDS FOR BOTH FIELD AND SHOP WELDING. THE APPLICABLE ELECTRODE TYPE SHALL BE UTILIZED FOR THE TYPE OF WELDING TO BE PERFORMED AS DEFINED BY THE 2004 AWS D1.1 CODE. PROPER ELECTRODE DRYING FACILITIES SHALL BE PROVIDED. ONLY NEWLY OPENED, SEALED PACKAGES OF ELECTRODES SHALL BE UTILIZED.
- TIMBER LAGGING SHALL BE 1200 PSI, AS ACCEPTABLE SOUTHERN YELLOW PINE, WITH A MINIMUM FB = 1800 PSI, AS ACCEPTABLE TO THE ENGINEER. ANY LAGGING THAT WILL REMAIN IN PLACE SHALL BE TREATED TIMBER LAGGING.

- EXPANSION ANCHORS TO BE USED SHALL BE HILTI KWIK BOLT II EXPANSION ANCHORS. EXPANSION ANCHORS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

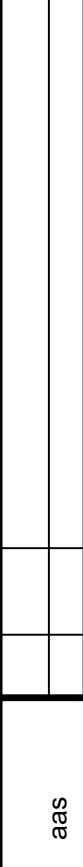
SOLDIER BEAM INSTALLATION

- ALL PILES SHALL BE INSTALLED IN LOCATIONS AS SHOWN ON THE CONTRACT DRAWINGS.
- THE PROPOSED PILE ALIGNMENT SHALL BE FILLED AS NECESSARY IN ORDER TO PROVIDE A LEVEL-WORKING PLATFORM FOR THE DRILLING EQUIPMENT.
- INSTALL SOLDIER BEAMS UTILIZING DUPLEX DRILLING METHODS WITH WATER FLUSH. UPON CONFIRMATION OF NO EXISTING UTILITIES WITHIN TWENTY (20) FEET OF THE PROPOSED SOLDIER PILES, CONTRACTOR MAY USE AIR IN LEIERS FOR WATER FOR PILE INSTALLATION. THE PILE SHALL CONSIST OF A MICROPILE CASING WITH A MINIMUM WALL THICKNESS OF 0.50 INCHES. MICROPILE CASING SHALL BE CONSTRUCTED OF MINIMUM N-80 (80 KSI) STEEL CONFORMING TO API SPECIFICATIONS. THE CASING ARE FLUSHED AND THREADED IN MINIMUM 5-FOOT LENGTHS WITH A TAPERED MODIFIED THREAD OF 5 THREADS PER INCH. THIS CONFIGURATION HAS A MINIMUM SHOULDER AND THEREFORE FULL STRESSES ARE TRANSFERRED THROUGH THE THREADS IN BOTH TENSION AND COMPRESSION.
- INSTALL SOLDIER PILES TO THE REQUIRED TIP ELEVATION. IF ROCK OR OBSTRUCTIONS ARE ENCOUNTERED BEFORE ATTAINING THE REQUIRED TIP ELEVATION, THE PILE SHALL BE ADVANCED THROUGH THE OBSTRUCTION OR INTO THE ROCK USING ROTARY PERCUSSION DRILLING METHODS. THE TOP OF THE PILE SHALL BE CLEARED FOR THE FULL LENGTH USING A DOWN-THE-HOLE HAMMER PRIOR TO THE PLACEMENT OF GROUT WITHIN THE PILE.
- GROUT SHALL CONSIST OF 1 SACK OF PORTLAND CEMENT TYPE III AND 6 GALLONS OF POTABLE WATER (W/C RATION OF 0.53), WHICH WILL YIELD AT LEAST 500 PSI IN 7 DAYS. GROUT SHALL BE MIXED THROUGHLY WITH A HIGH-SPEED SHEAR MIXER. GROUT SHALL BE PLACED USING CONVENTIONAL REMOTE METHODS.
- IT IS INTENDED THAT EACH SOLDIER BEAM BE GROUTED AS THE DRILLING PROCEEDS TO PREVENT LEAVING OPEN, COMPLETED PILES. THIS PROCEDURE WILL BE IN EFFECT UNTIL ALL SOLDIER BEAMS HAVE BEEN INSTALLED. THE CONTRACTOR MAY AT HIS OWN RISK DELAY THE PLACING OF GROUT WITHIN THE PILES UNTIL SEVERAL PILES ARE READY FOR THE GROUT. THE CONTRACTOR IS ADVISED THAT PROPER PROTECTION OF THE PILES WILL BE REQUIRED FOR THOSE LEFT OPEN AND THAT ANY REMEDIAL WORK IS NECESSARY DUE TO HIS DECISION WILL BE AT HIS EXPENSE.
- THE SOLDIER BEAMS SHOULD BE PLUMB AND ON LINE. IT MAY BE PRUDENT TO UTILIZE SOME FORM OF JIG DURING THE PLACEMENT OF THE SOLDIER BEAMS TO ASSURE THAT THE ALIGNMENT OF THE SOLDIER BEAMS REMAINS ON LINE.
- GROUT SHALL BE CAREFULLY PLACED INSIDE THE PILE TO WITHIN 1 FOOT OF THE TOP OF THE PILE. THE GROUT SHALL BE PLACED BY REMOTE METHOD TO ASSURE THAT THE ENTIRE PILE HAS BEEN FILLED AND NO VOIDS WERE CREATED DURING THE PLACEMENT OPERATION AND NO CONTAMINATION OF THE GROUT DUE TO INTERMIXING WITH DRILLING SPOILS OCCURS.
- UPON COMPLETION OF THE INSTALLATION OF THE SOLDIER BEAMS, THE MASS EXCAVATION SHALL COMMENCE IN CONJUNCTION WITH THE INSTALLATION OF THE TIMBER LAGGING. LAGGING SHALL BE CUT TO PROVIDE A MINIMUM OF 3-INCHES OF BEARING ON EACH OF THE L-BRACKET OR FULLY BLOCKED OUT. TIMBER LAGGING SHALL BE CRIMP NAILLED TO THE FLANGES OF THE "T" SECTION WITH 12D NAILS. EXCAVATE NO DEEPER THAN 2 FEET BEFORE INSTALLING THE TIMBER LAGGING.
- EACH LAGGING BOARD SHALL BE LAGGED AT LEAST 1/4-INCH TO PERMIT DRAINAGE. ANY VOIDS BEHIND LAGGING SHALL BE BACKFILLED WITH ON SITE SOIL RAMMED IN PLACE, FLOWABLE FILL, OR DRYPACK MORTAR.

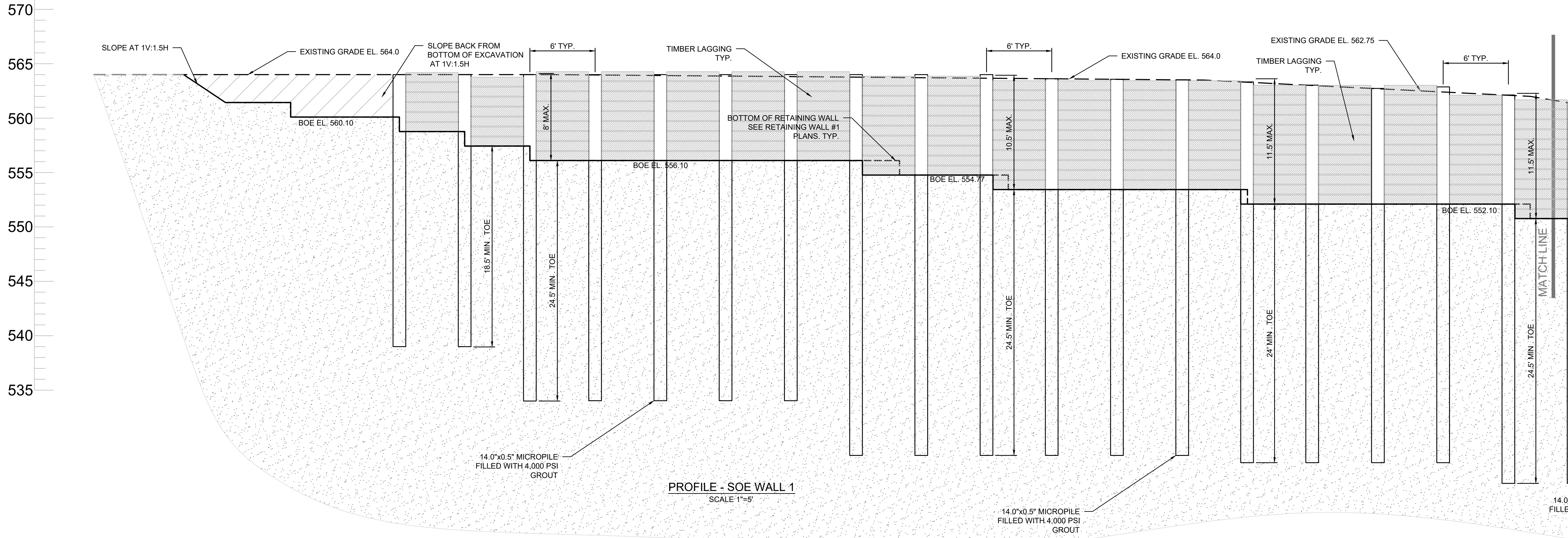
TIEBACKS AND TESTING

- ALL ANCHORS SHALL BE HOLLOW THREAD BARS AND SHALL BE SINGLE-CORROSION PROTECTED (SCP) ANCHORS. BARS SHALL BE MANUFACTURED BY BELLLOI BARS AND DISTRIBUTED BY SAS STESSSTEEL OR IBO TITAN BARS AND DISTRIBUTED BY CON-TECH SYSTEMS.
- ALL PLATES SHALL CONFORM TO ASTM A-50.
- ANCHOR NUTS AND COUPLERS SHALL BE CAPABLE OF DEVELOPING 100% OF THE ULTIMATE STRENGTH OF THE ANCHOR.
- CARE MUST BE TAKEN NOT TO DAMAGE THE THREAD BARS. KEEP THE THREAD BARS FREE OF DIRT AND OTHER DELETERIOUS SUBSTANCES.
- ALL ANCHORS SHALL BE PROOF-TESTED USING A CALIBRATED CENTER HOLE HYDRAULIC JACK. NO LESS THAN 10% OF THE ANCHORS SHALL BE PERFORMANCE TESTED.
- PERFORMANCE TESTING:
 - AL, 0.25P
 - AL, 0.25P, 0.50P
 - AL, 0.25P, 0.50P, 0.75P
 - AL, 0.25P, 0.50P, 0.75P, 1.00P
 - AL, 0.25P, 0.50P, 0.75P, 1.00P, 1.20P
 - AL, 0.25P, 0.50P, 0.75P, 1.00P, 1.20P, 1.33P
- HOLD 1.33P FOR CREEP TEST. RECORD ALL MOVEMENTS USING A DIAL INDICATOR THAT IS CAPABLE OF RECORDING INCREMENTS OF 0.001 INCHES. RECORD THE READINGS AT INTERVALS OF 1, 2, 3, 4, 5, 6, AND 10 MINUTES. RELEASE LOAD BELOW LOCK OFF LOAD AND RELOAD ANCHOR TO LOCK OFF LOAD AND LOCK OFF ANCHOR WITH ANCHOR NUT.
- PROOF TEST
 - AL, 0.25P, 0.50P, 0.75P, 1.00P, 1.20P, 1.33P
- HOLD 1.33P FOR CREEP TEST. RECORD ALL MOVEMENTS USING A DIAL INDICATOR THAT IS CAPABLE OF RECORDING INCREMENTS OF 0.001 INCHES. RECORD THE READINGS AT 0, 1, 2, 3, 4, 5, 6, AND 10 MINUTES. RELEASE LOAD BELOW LOCK OFF LOAD AND RELOAD ANCHOR TO LOCK OFF LOAD AND LOCK OFF ANCHOR WITH ANCHOR NUT.
- ALL TIEBACKS SHALL BE LOCKED OFF AT 80% OF THE DESIGN LOAD.
- CONTRACTOR SHALL SUBMIT CERTIFICATION OF JACK CALIBRATIONS FOR APPROVAL PRIOR TO COMMENCING TIEBACK INSTALLATION. CALIBRATION REPORT MAY BE NO OLDER THAN 3 MONTHS.

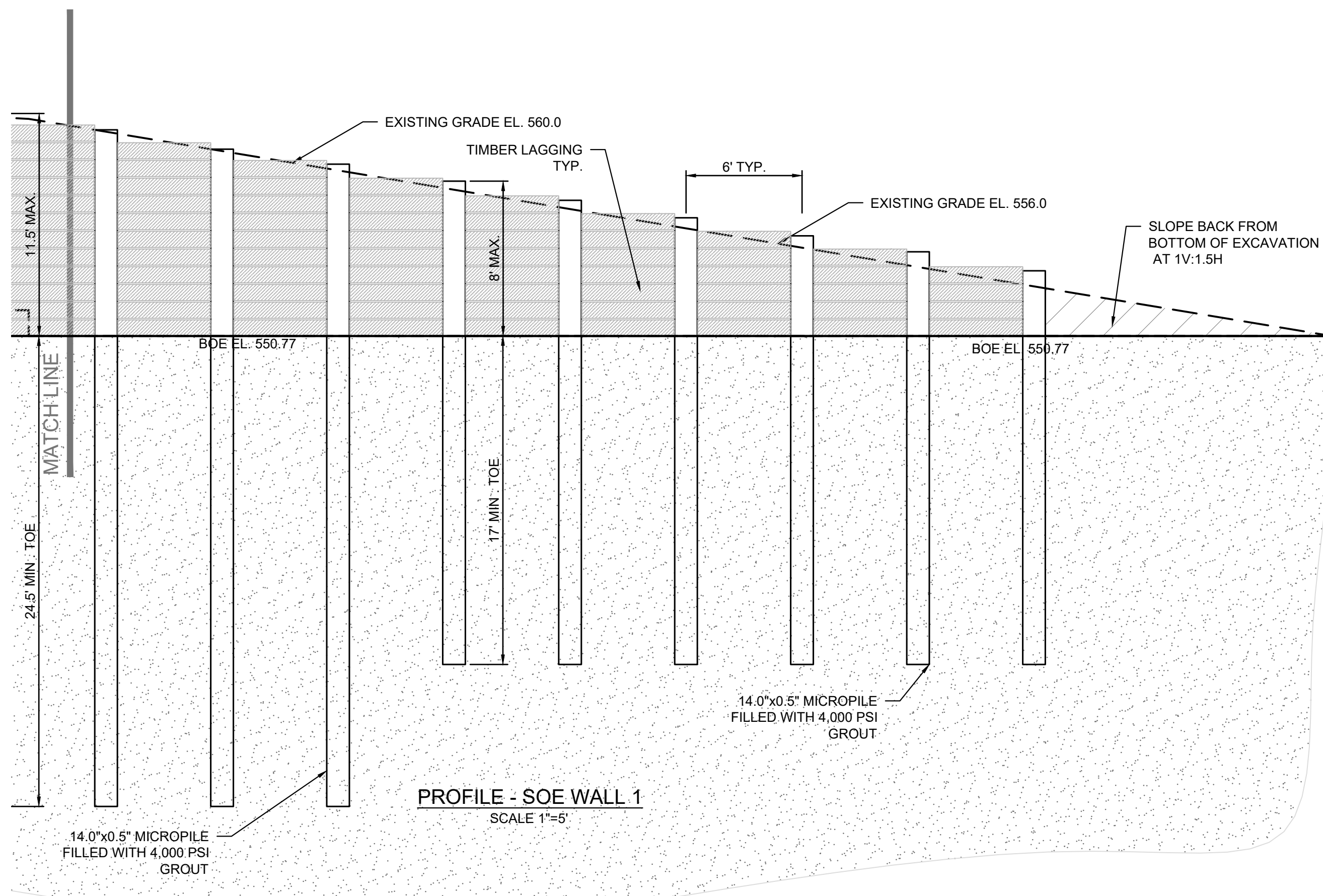
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<div>job no. 9999 drawing no.</div>		<div>SOE-2</div>		<div>JOSE M. RODRIGUEZ, P.E. PROFESSIONAL ENGINEER N.Y. LIC. NO. 095960</div>		<div>12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-908-9050</div>							
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NAVD 88

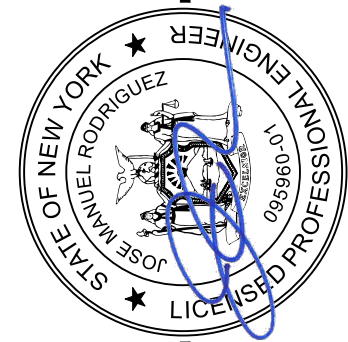


NAVD 88



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SOE WALL 1 PROFILE

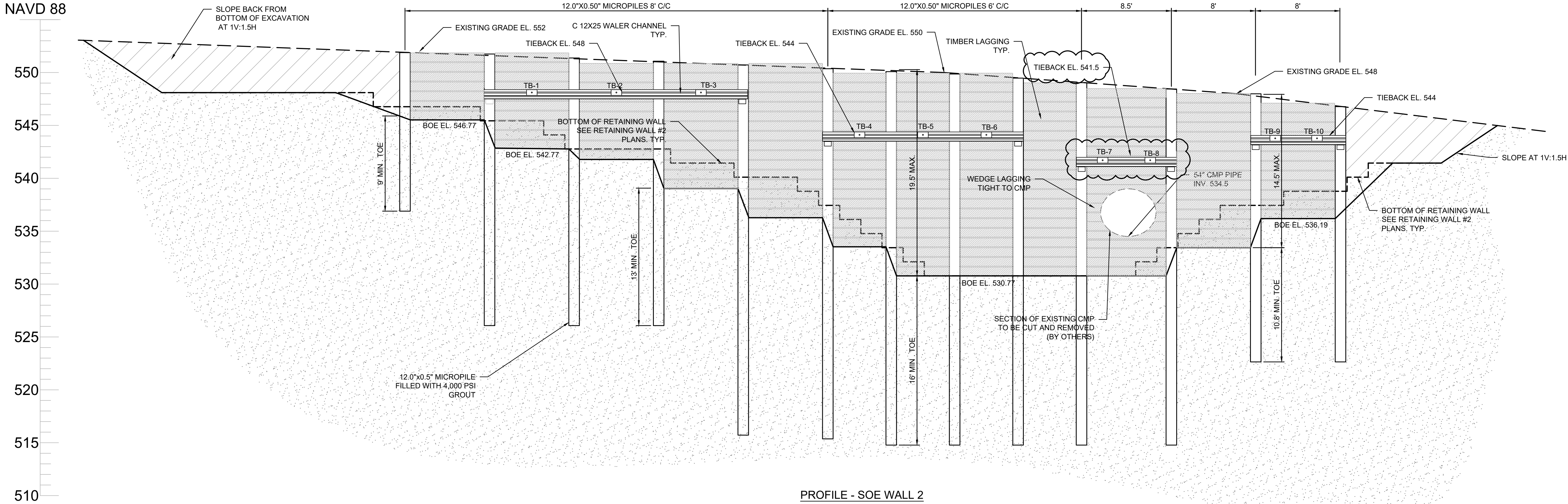
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SOE-5

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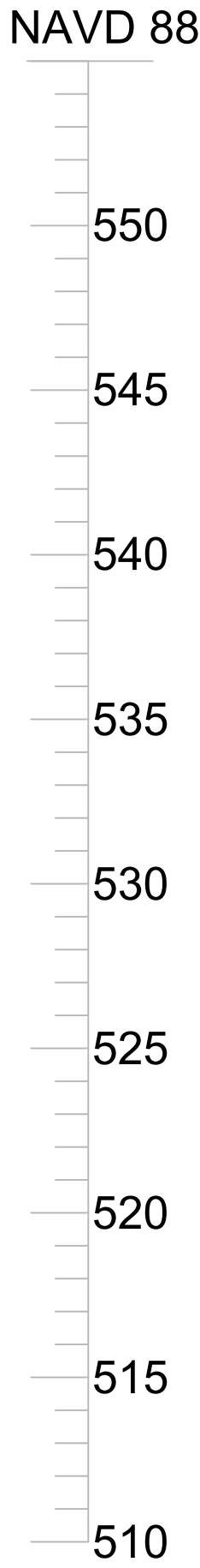
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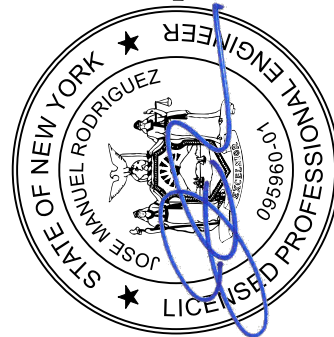


PROFILE - SOE WALL 2
SCALE 1"=5'

NAVD 88



TieBack Property Table								
Tieback ID	Angle [degree]	Bond Length [ft]	Free Length [ft]	Drill Hole Diameter [inch]	Bar Size [O.D. (mm) / I.D. (mm)]	Design Load [kips]	Test Load [kips]	Lock off Load [kips]
TB-1 to TB-3	30	25	15	6	51/28	45	58.5	36
TB-4 to TB-6	30	25	15	6	51/28	37	48.1	29.6
TB-7 & TB-8	15	25	15	6	51/28	52	67.6	41.6
TB-9 & TB-10	30	25	15	6	51/28	32	41.6	25.6



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SOE WALL 2 PROFILE

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SOE-6

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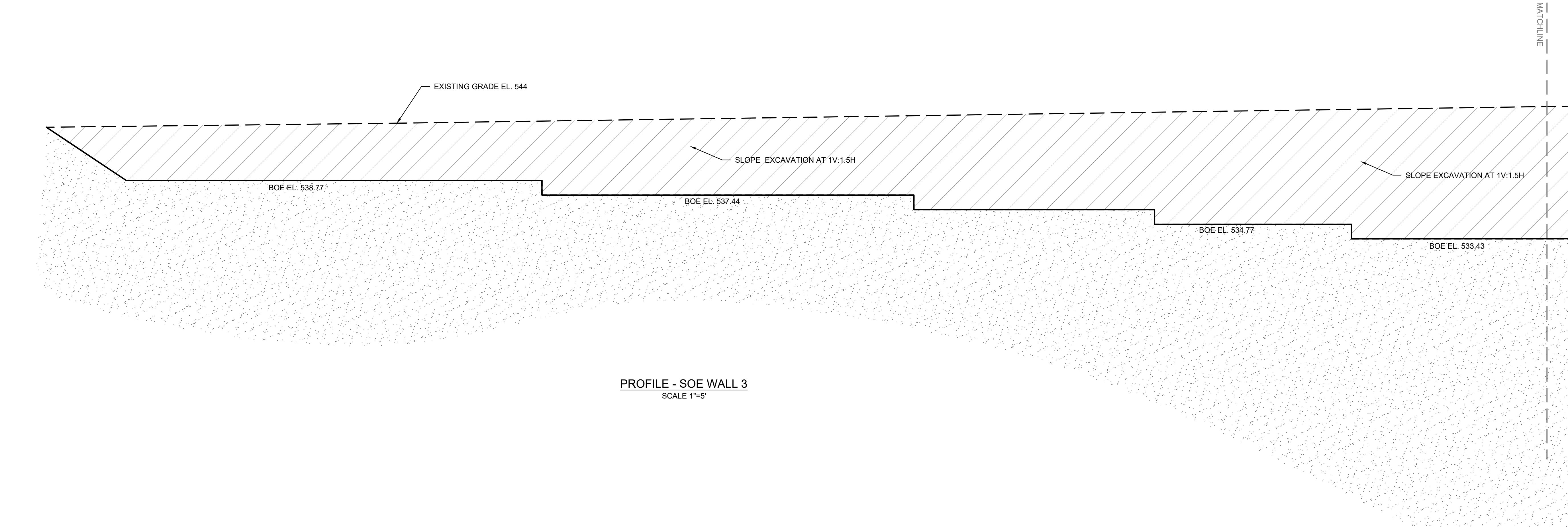
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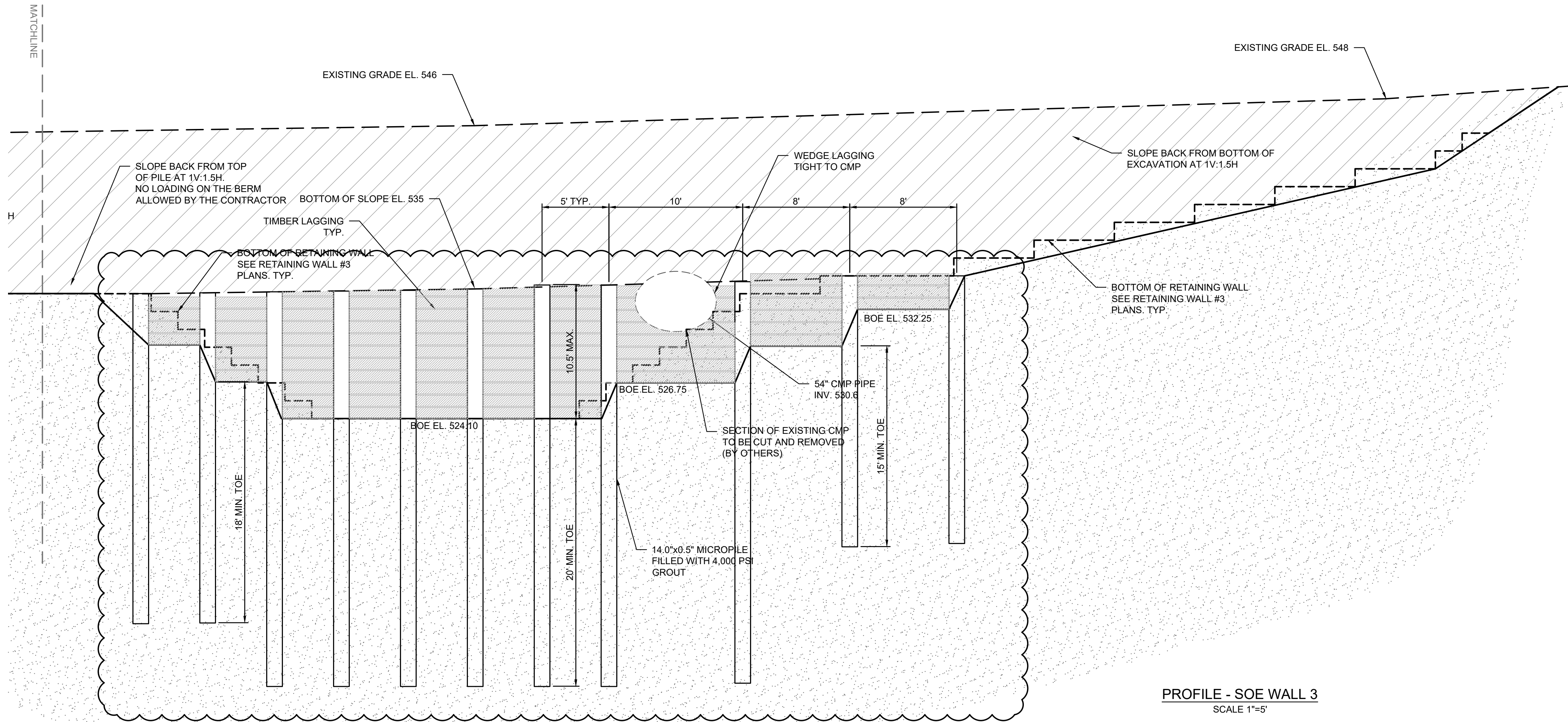
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PROFILE - SOE WALL 3
SCALE 1"=5'



PROFILE - SOE WALL 3
SCALE 1"=5'

NAVD 88

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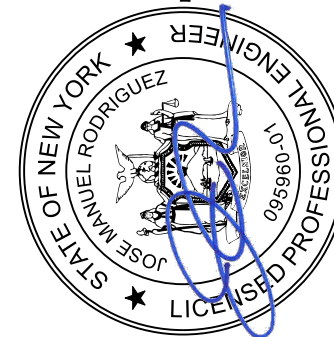
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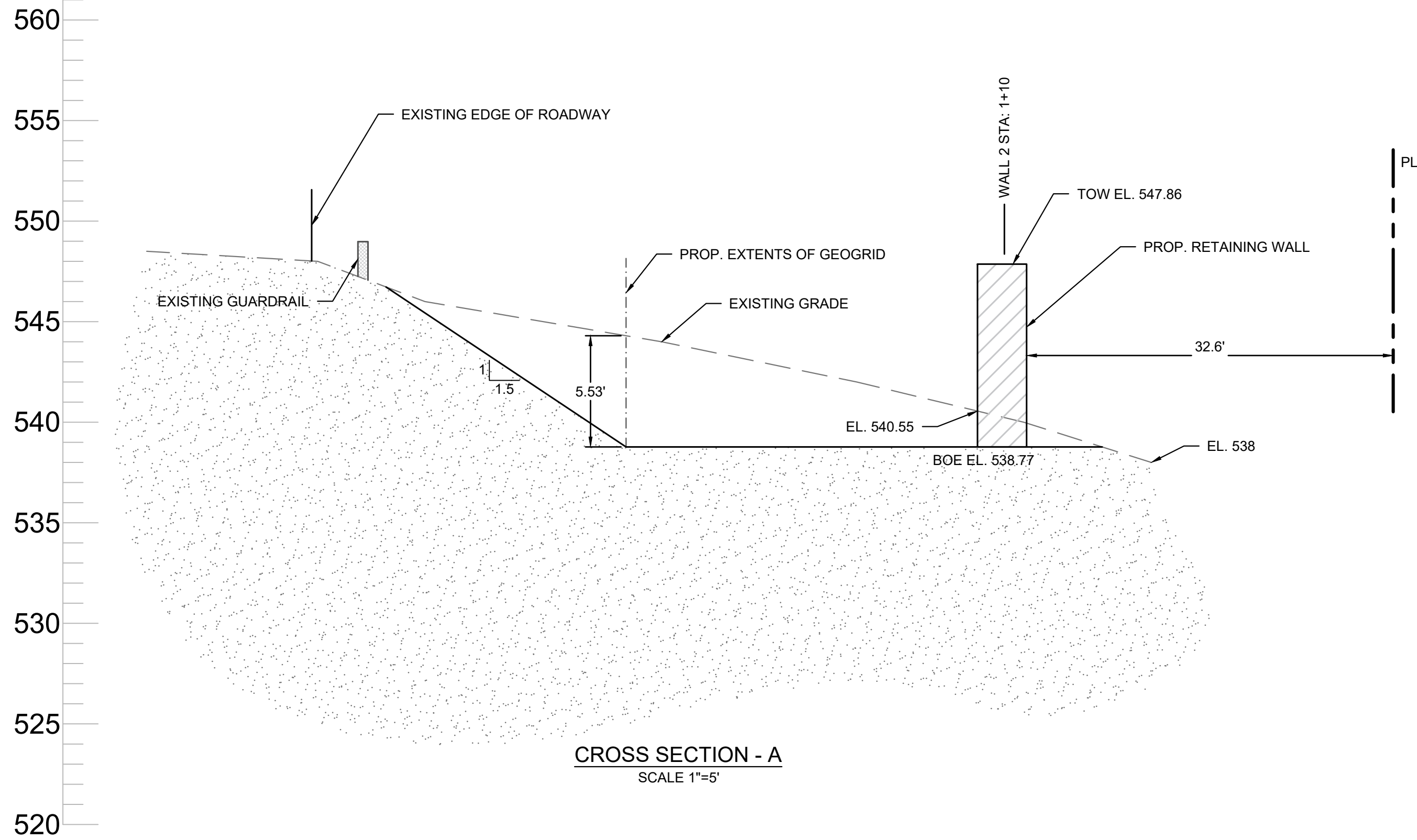
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SOE-7

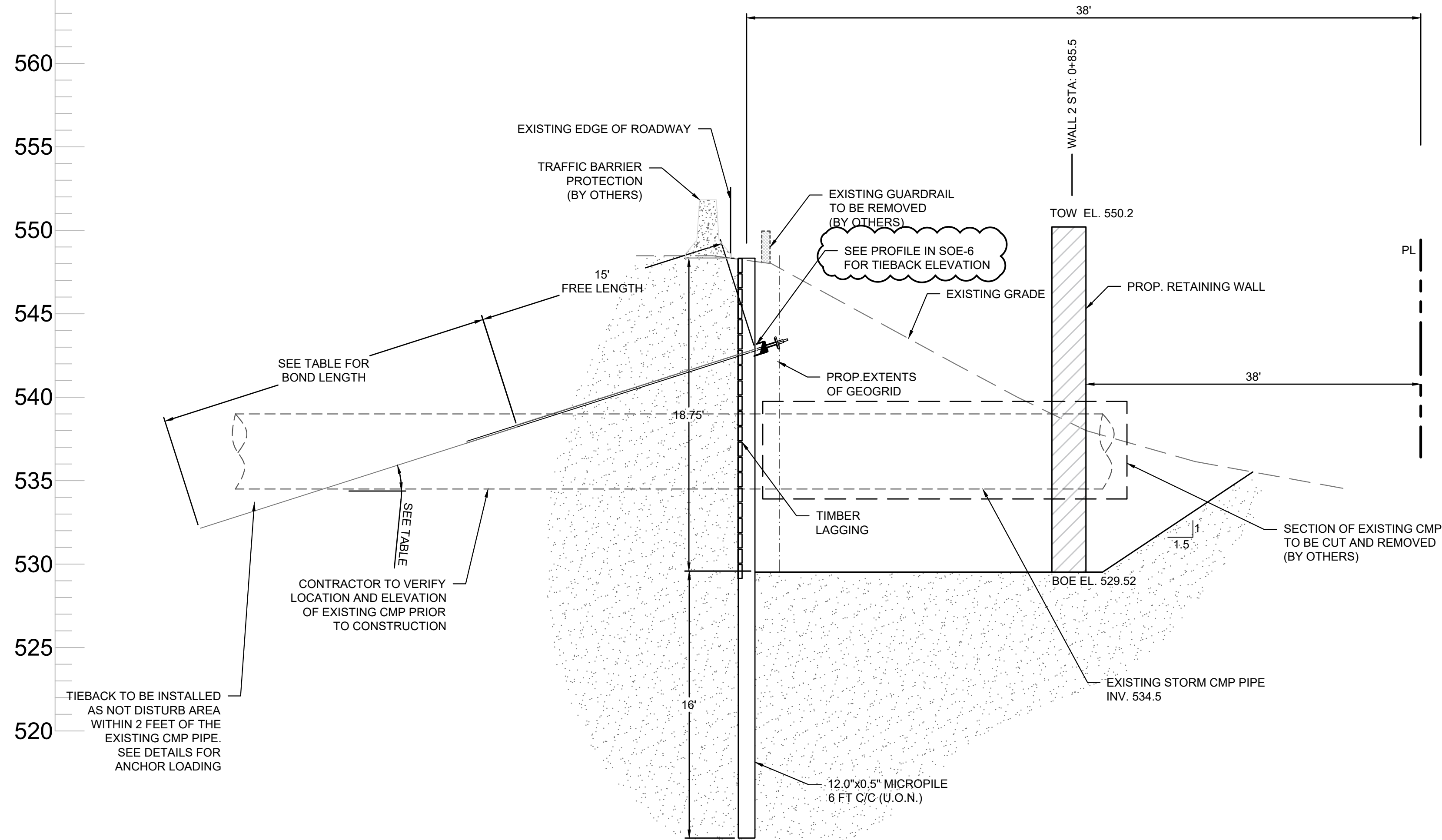
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CROSS SECTION - A
SCALE 1"=5'

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CROSS SECTION - B
SCALE 1"=5'

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SOE CROSS SECTIONS

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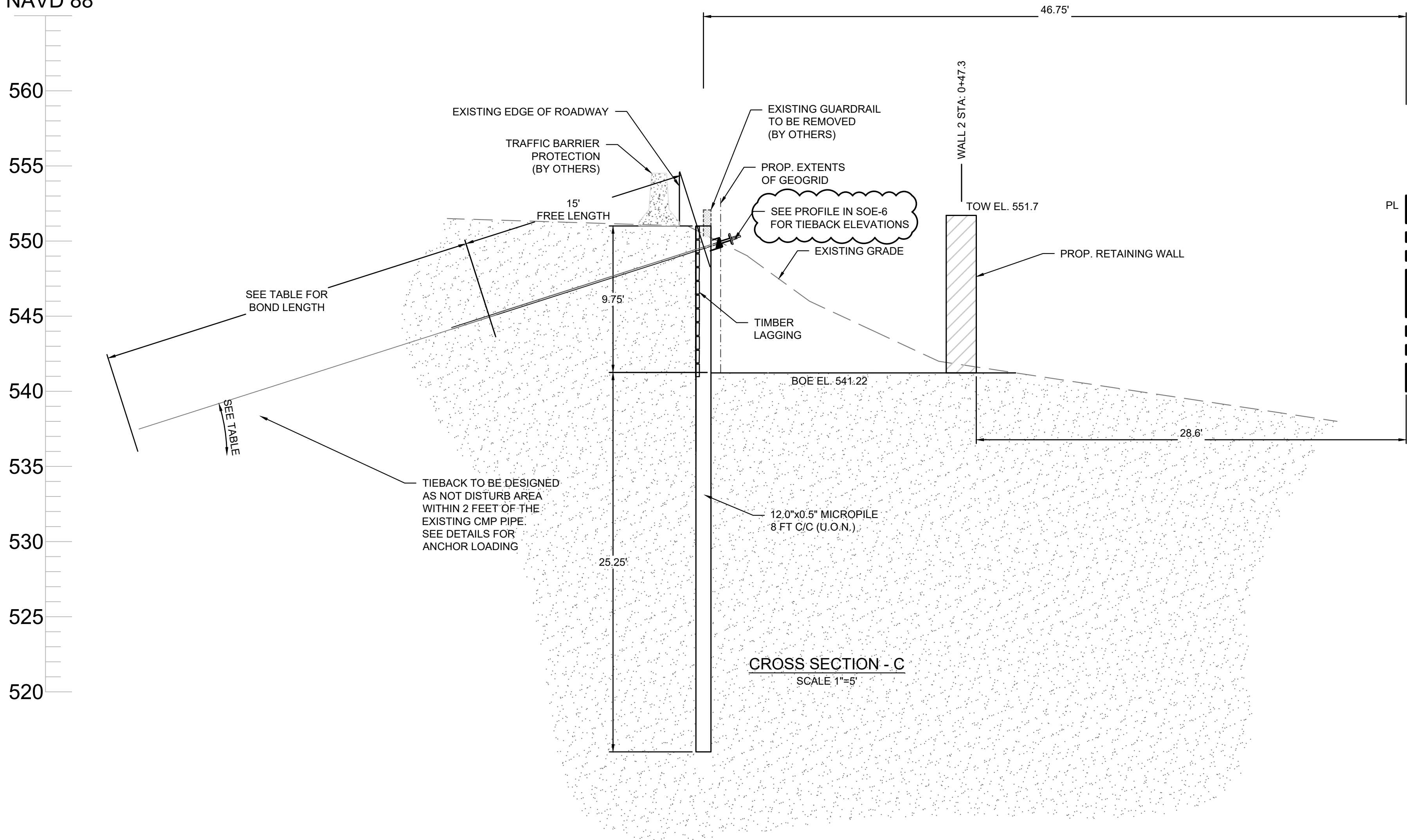
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date: 08/04/2021

rev	date	description
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1	8/4/21	DOT SUBMISSION

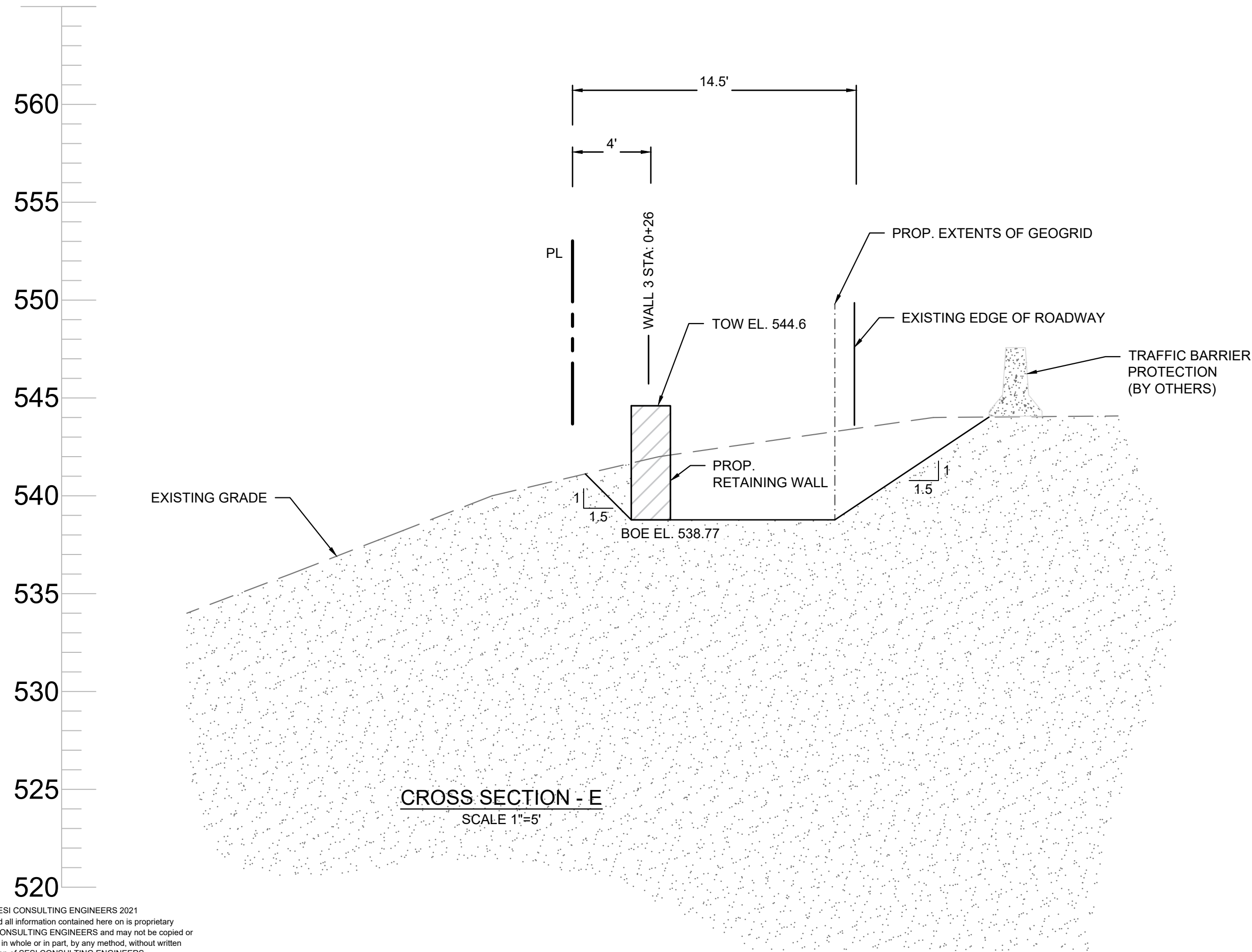
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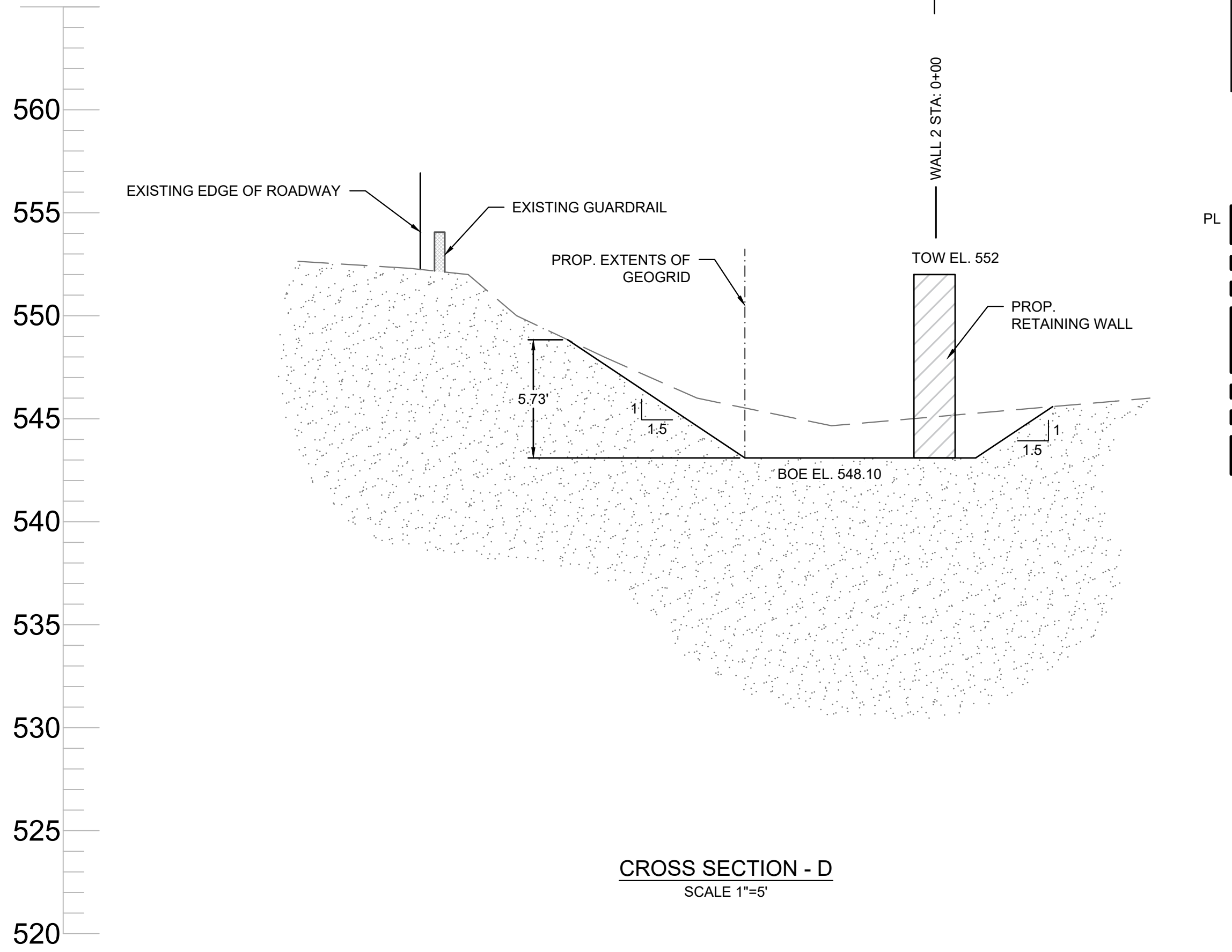
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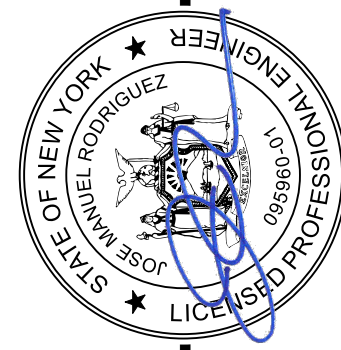


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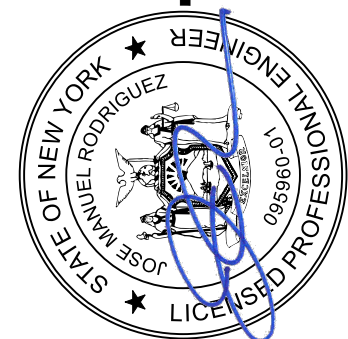
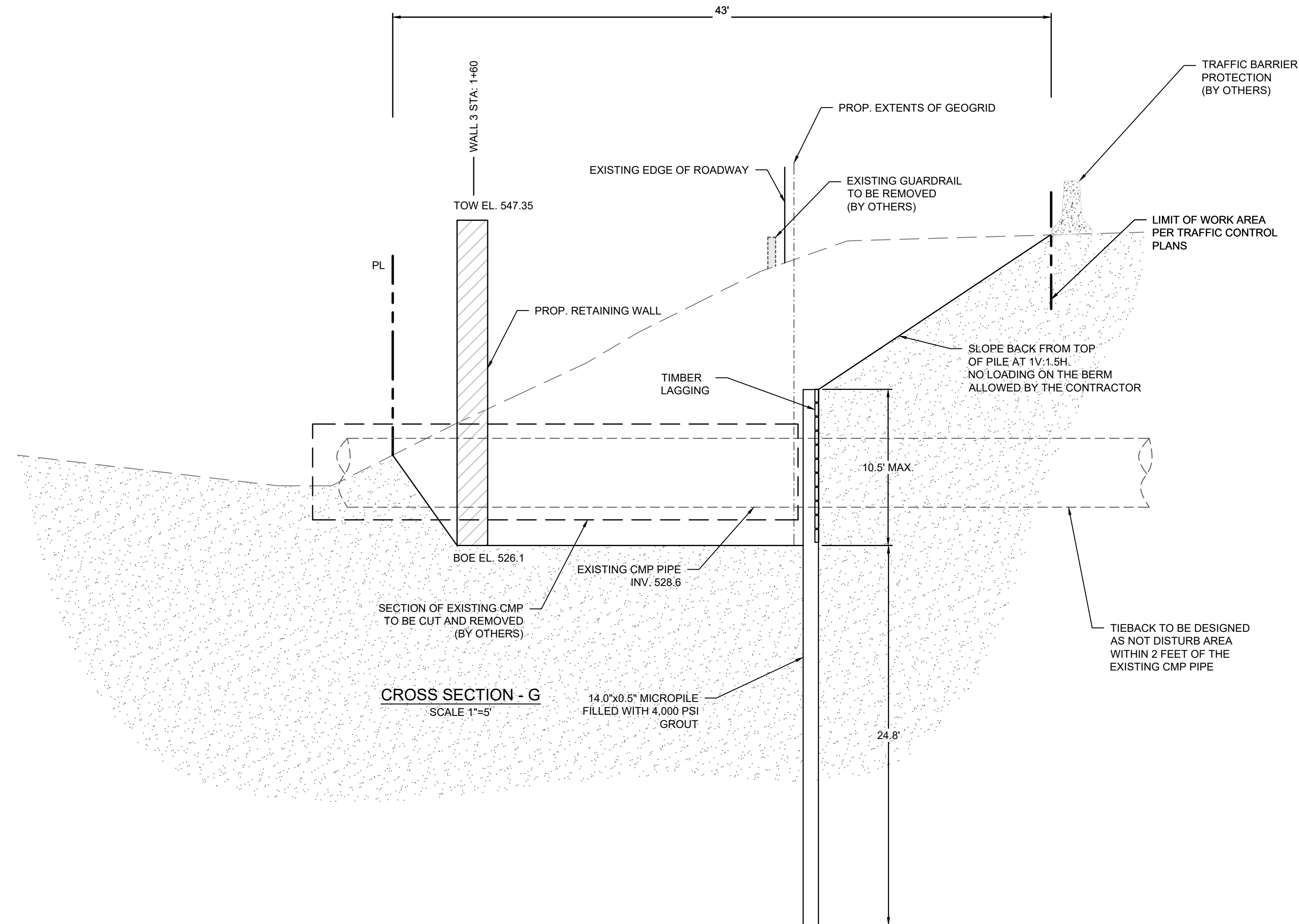
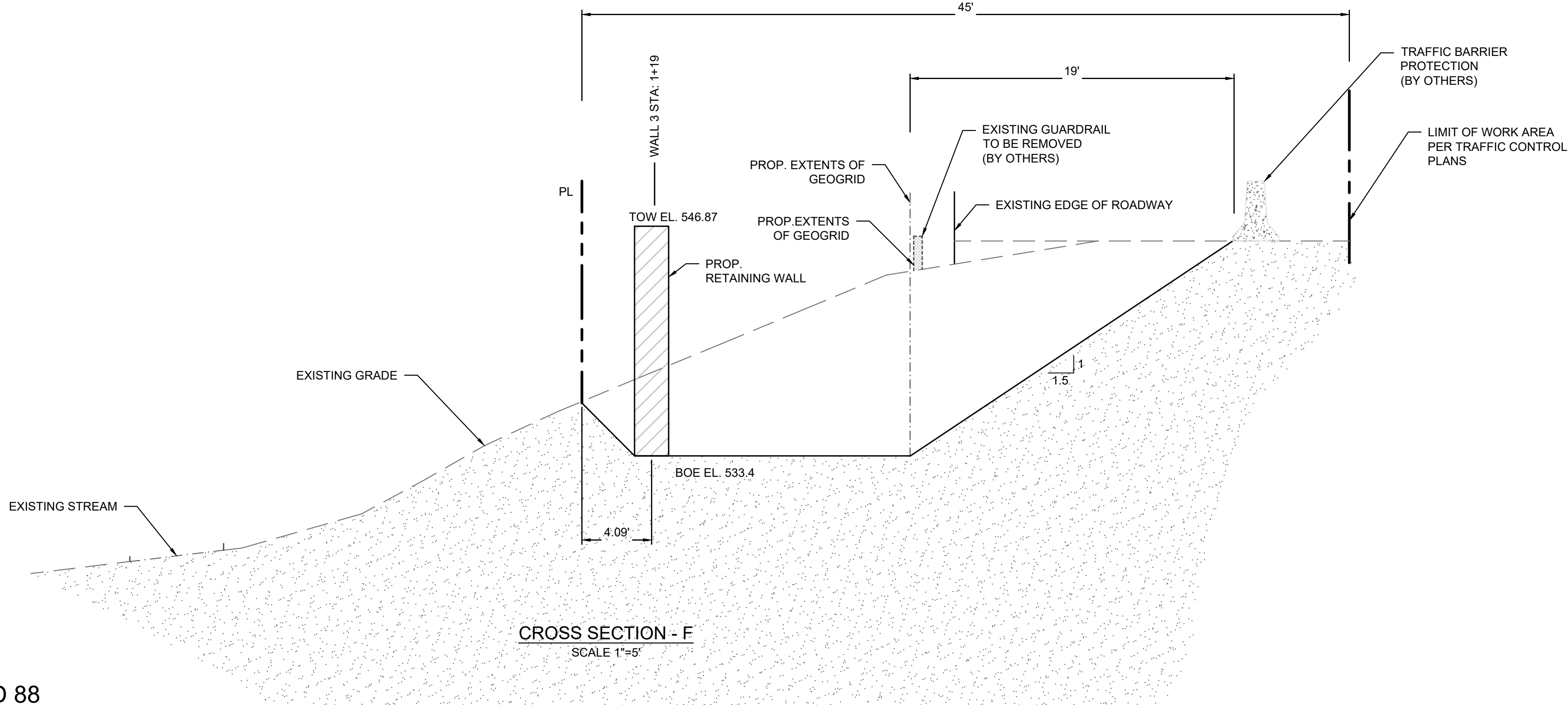
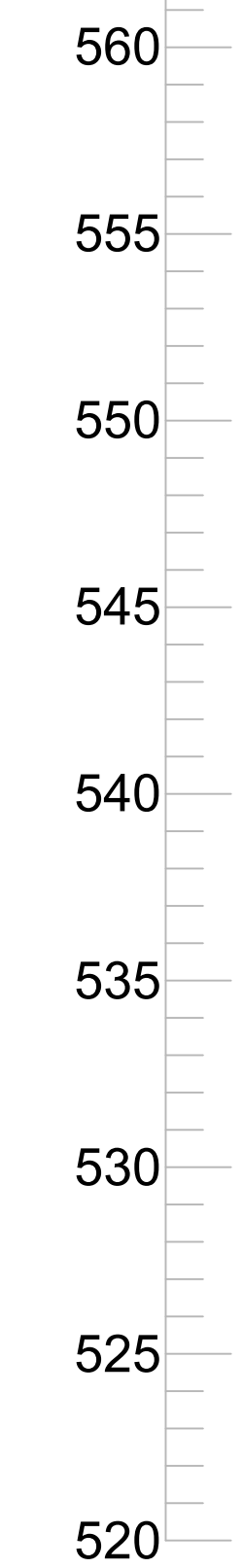
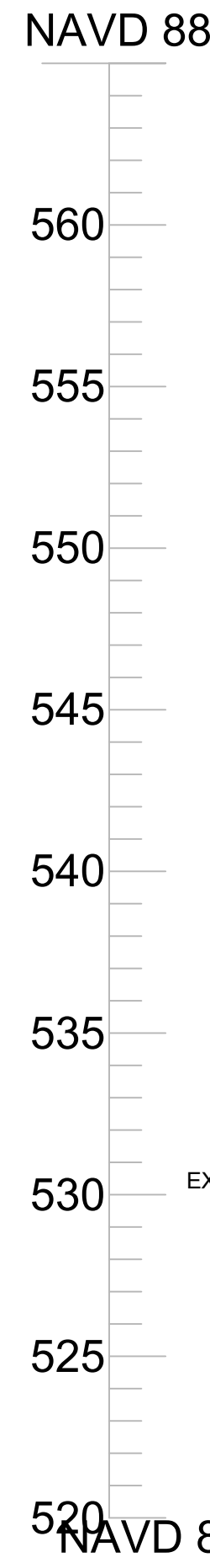
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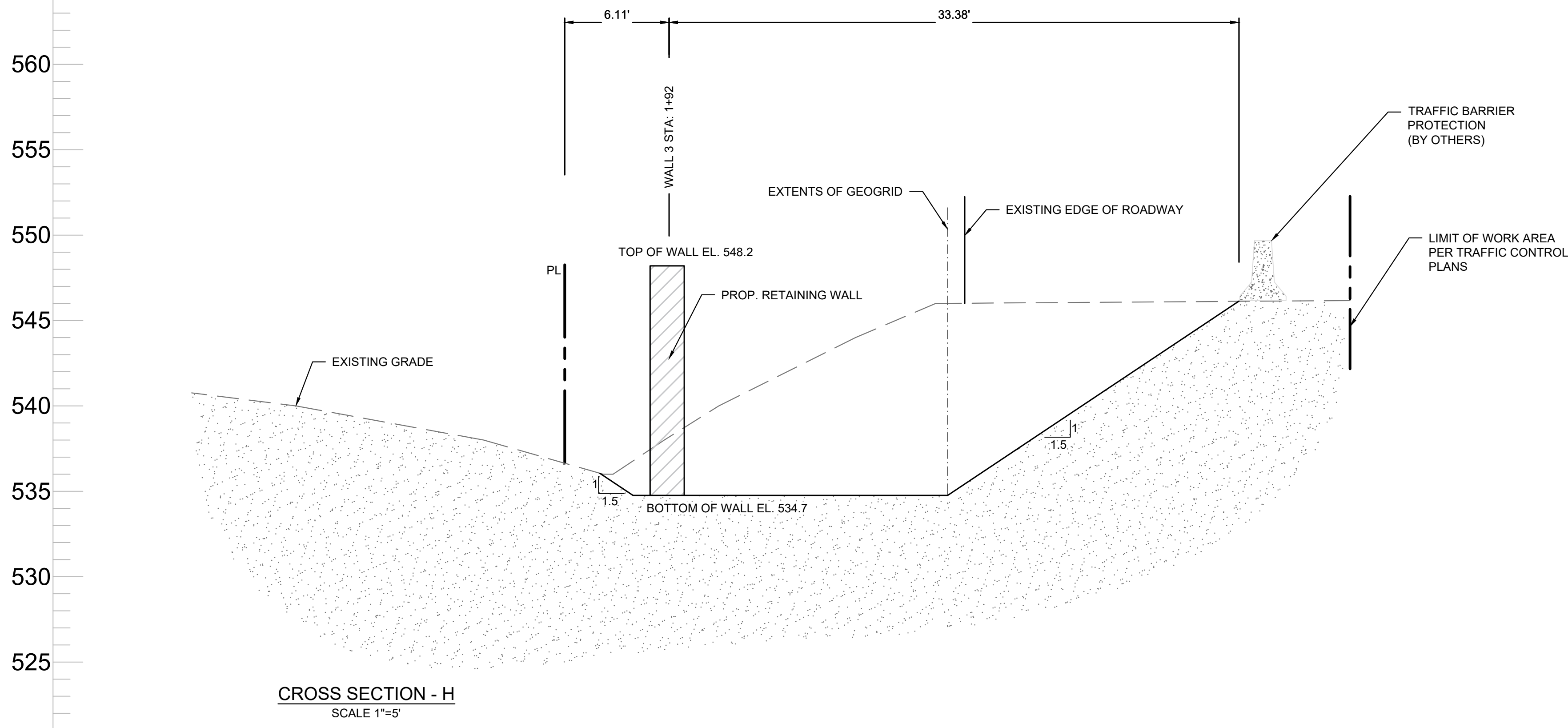
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drawing title:
SOE CROSS SECTIONS

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drawing no.

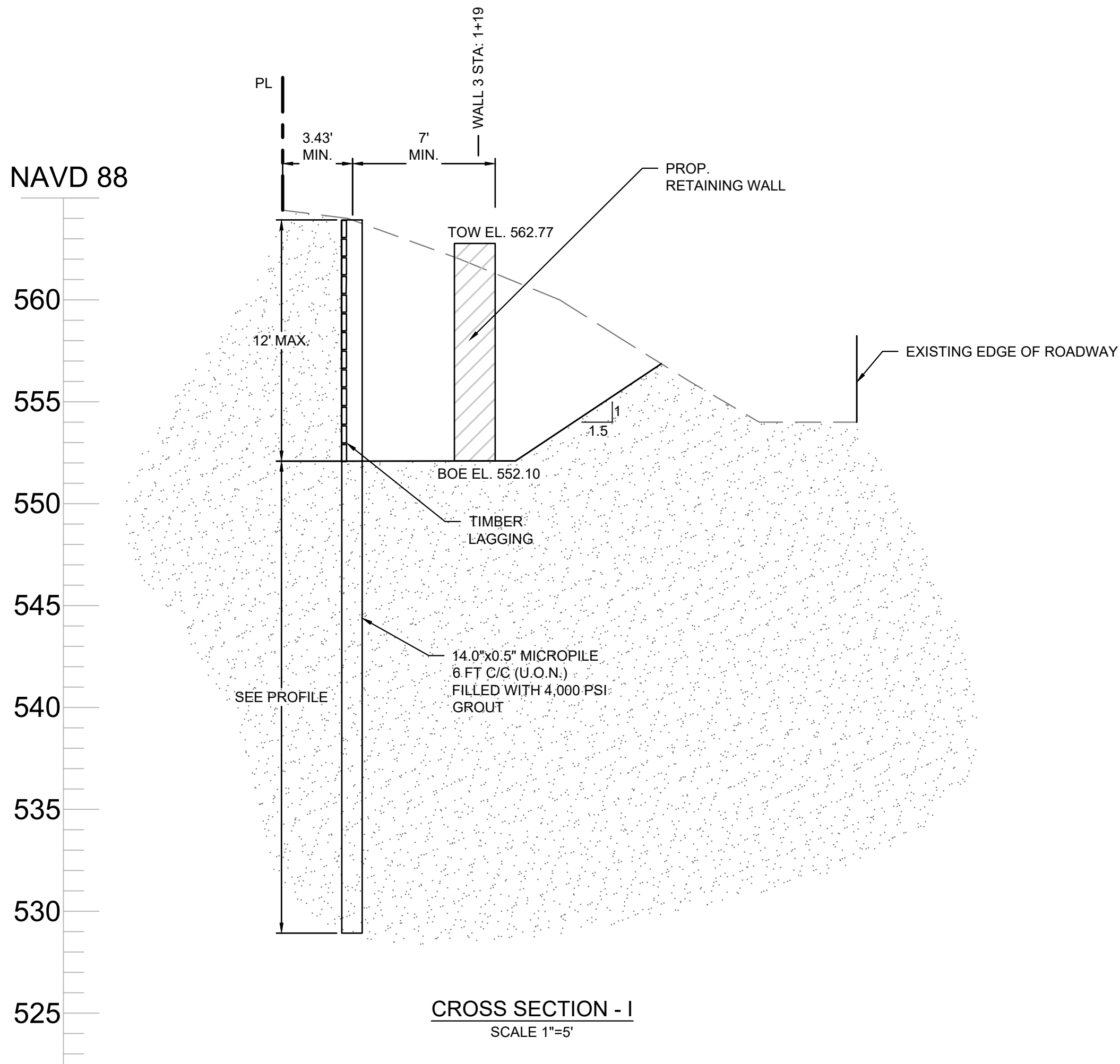
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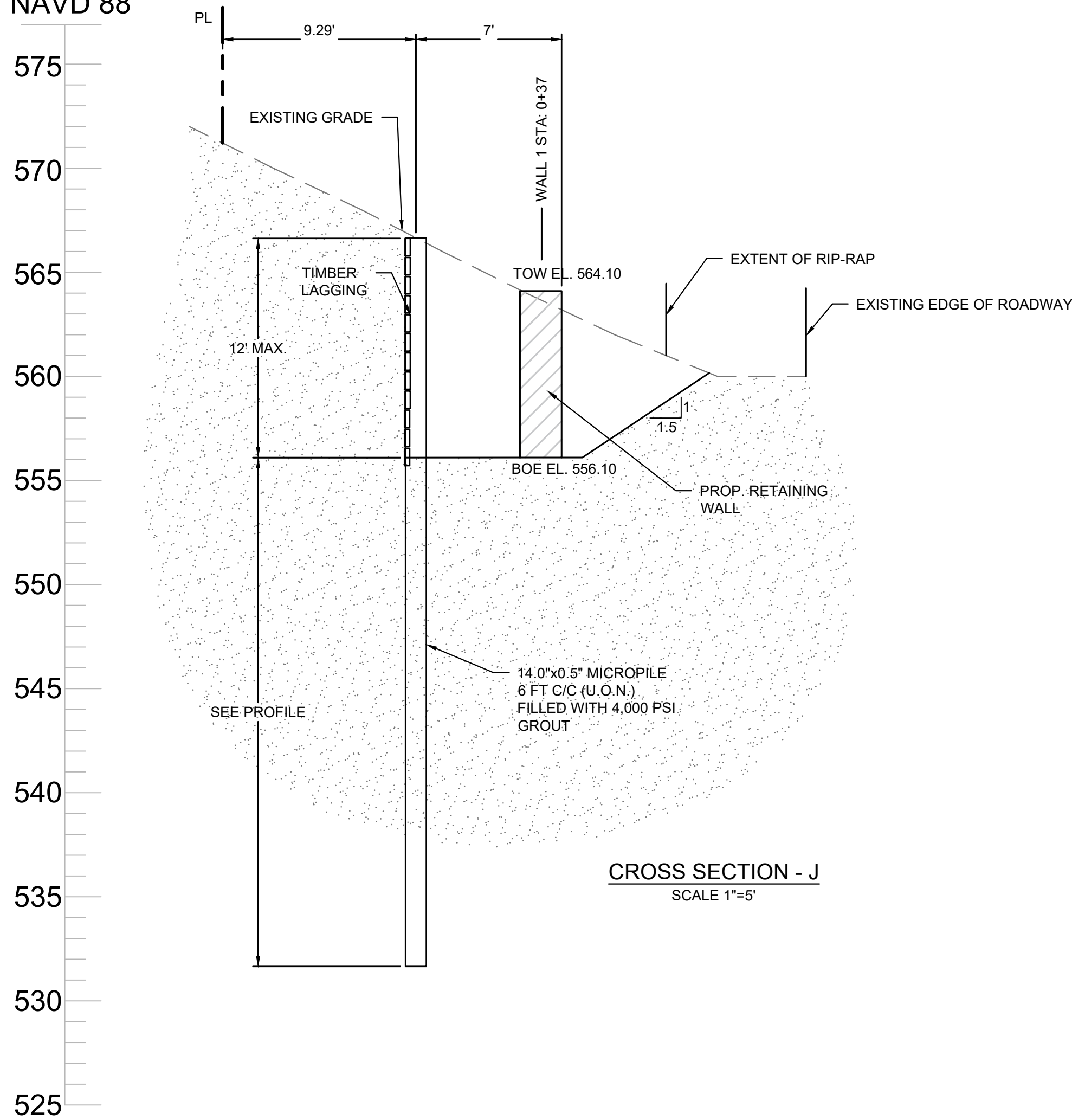
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SCALE 1"=5'

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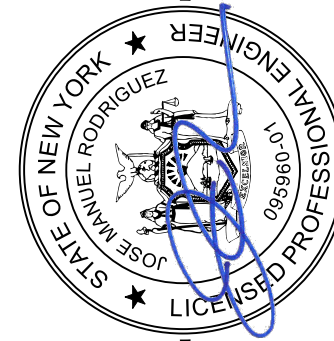


CROSS SECTION - I
SCALE 1"=5'

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CROSS SECTION - J
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SITE DESIGN
ENVIRONMENTAL

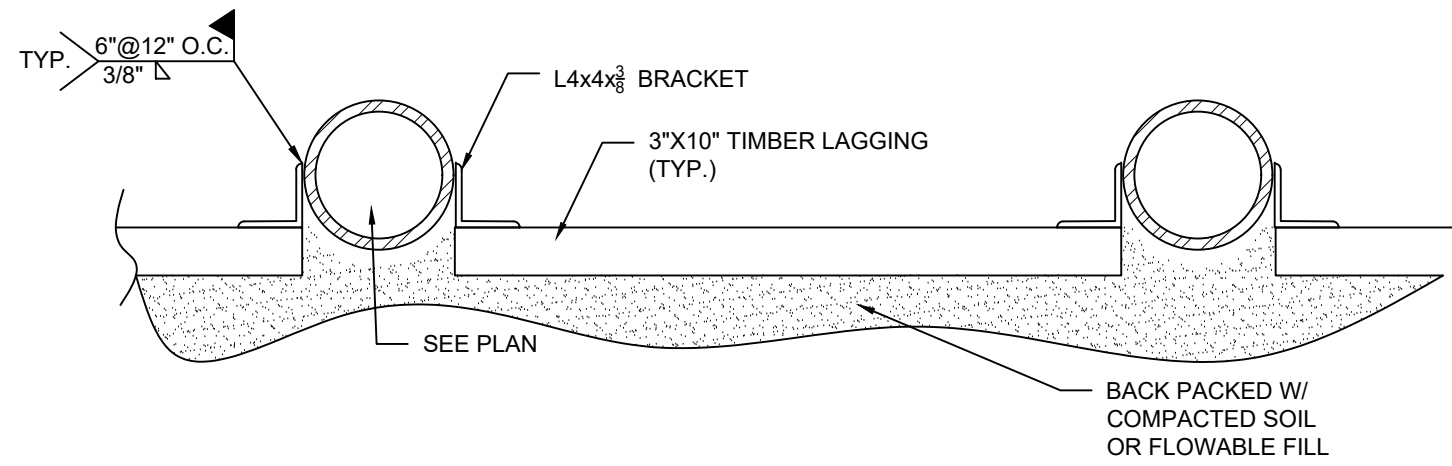
12A MAPLE AVE. PINE BROOK, N.J. 07068 PH: 973-808-9050

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chk by: NG
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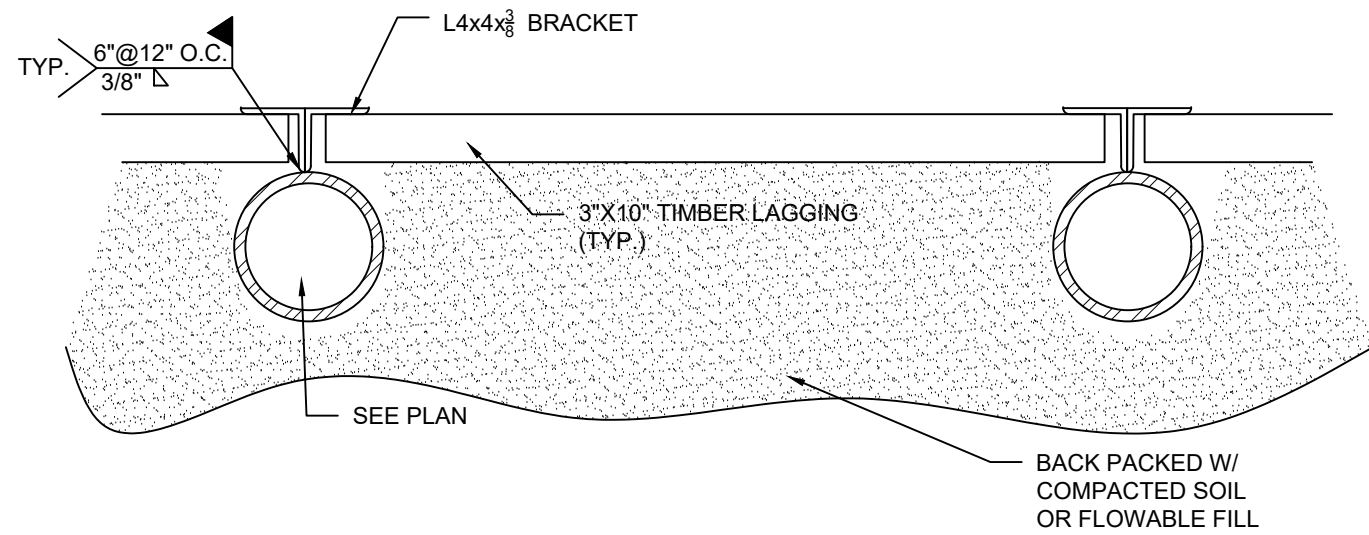
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1 8/4/21 DOT SUBMISSION
rev date description

job no. 9999
drawing no.

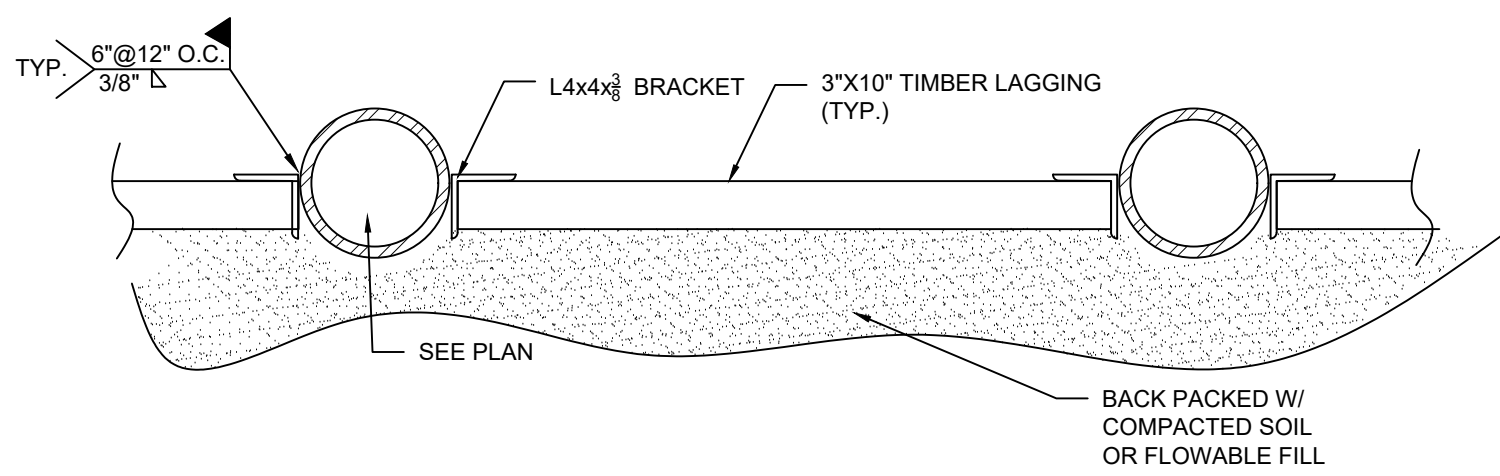
SOE-11



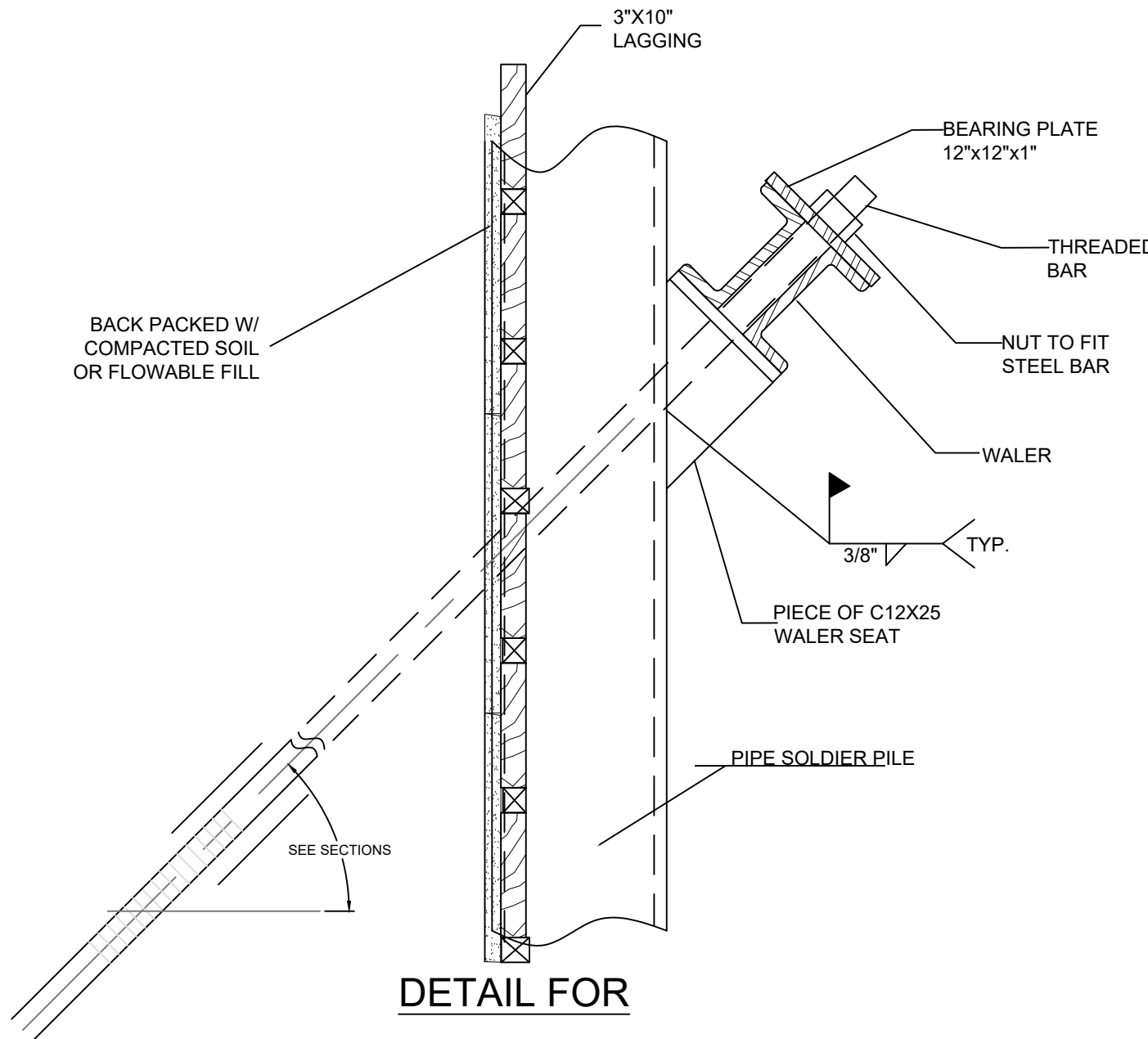
PLAN VIEW
TYPICAL LAGGING AND ANGLE DETAIL
SCALE: N.T.S.



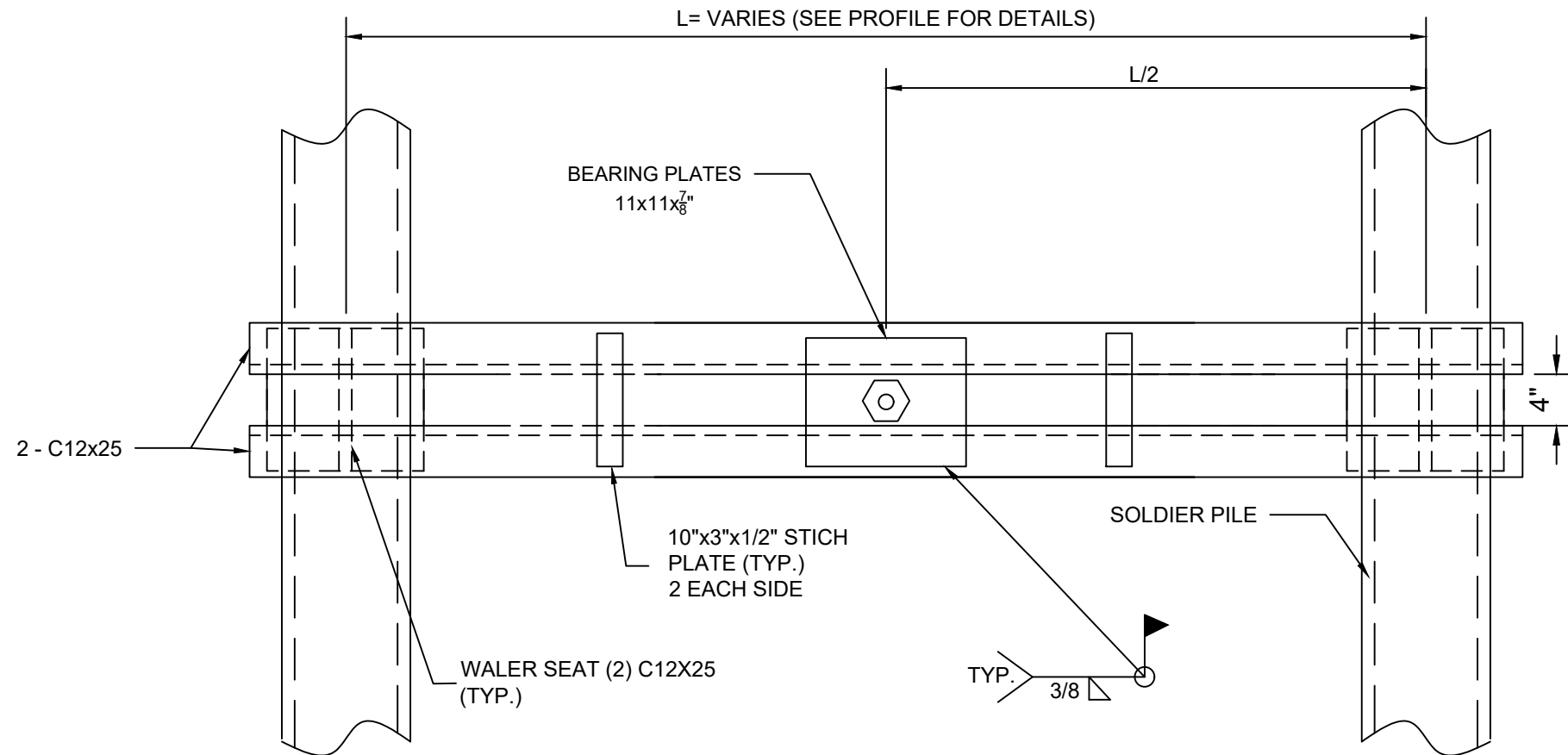
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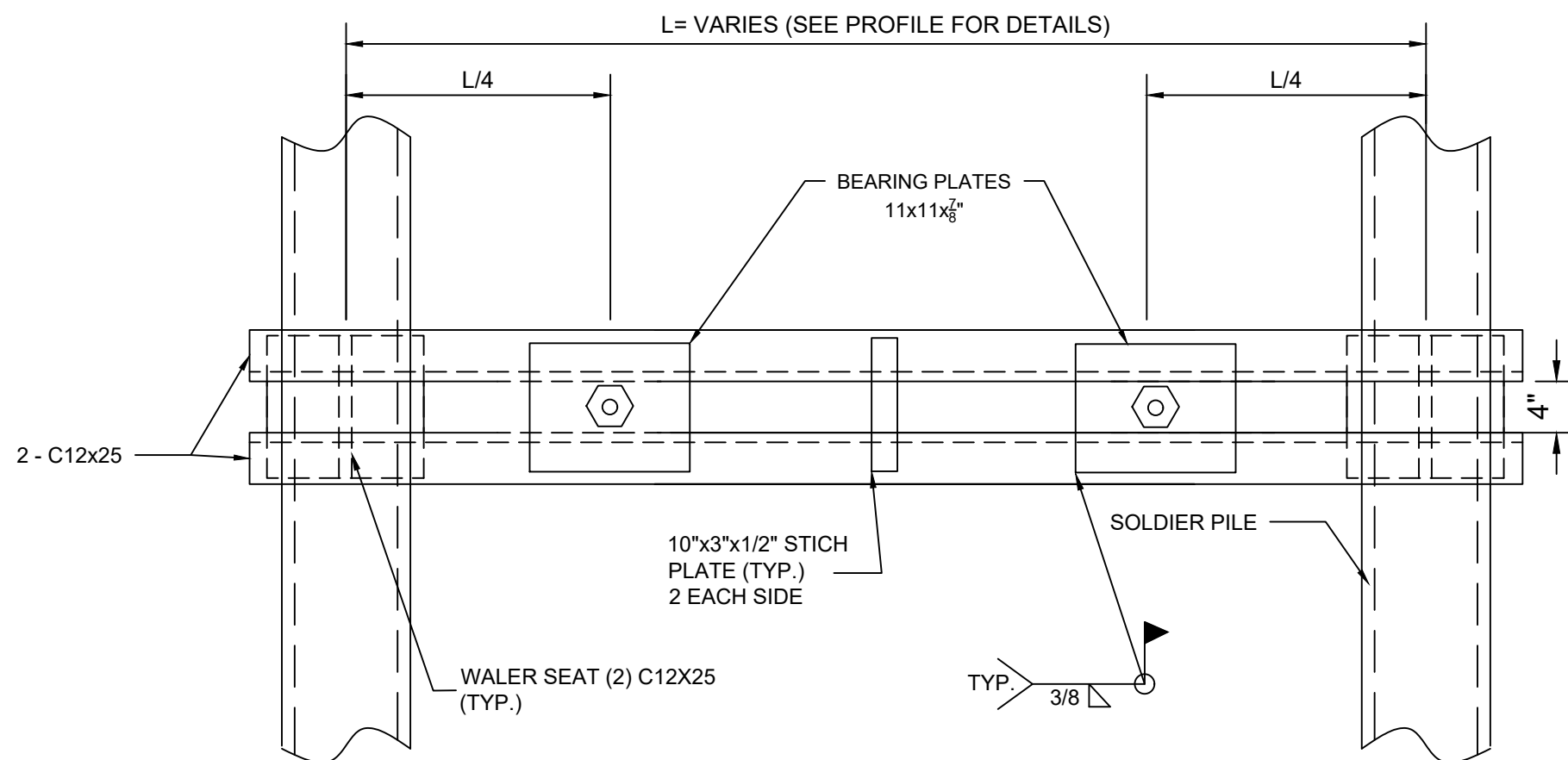
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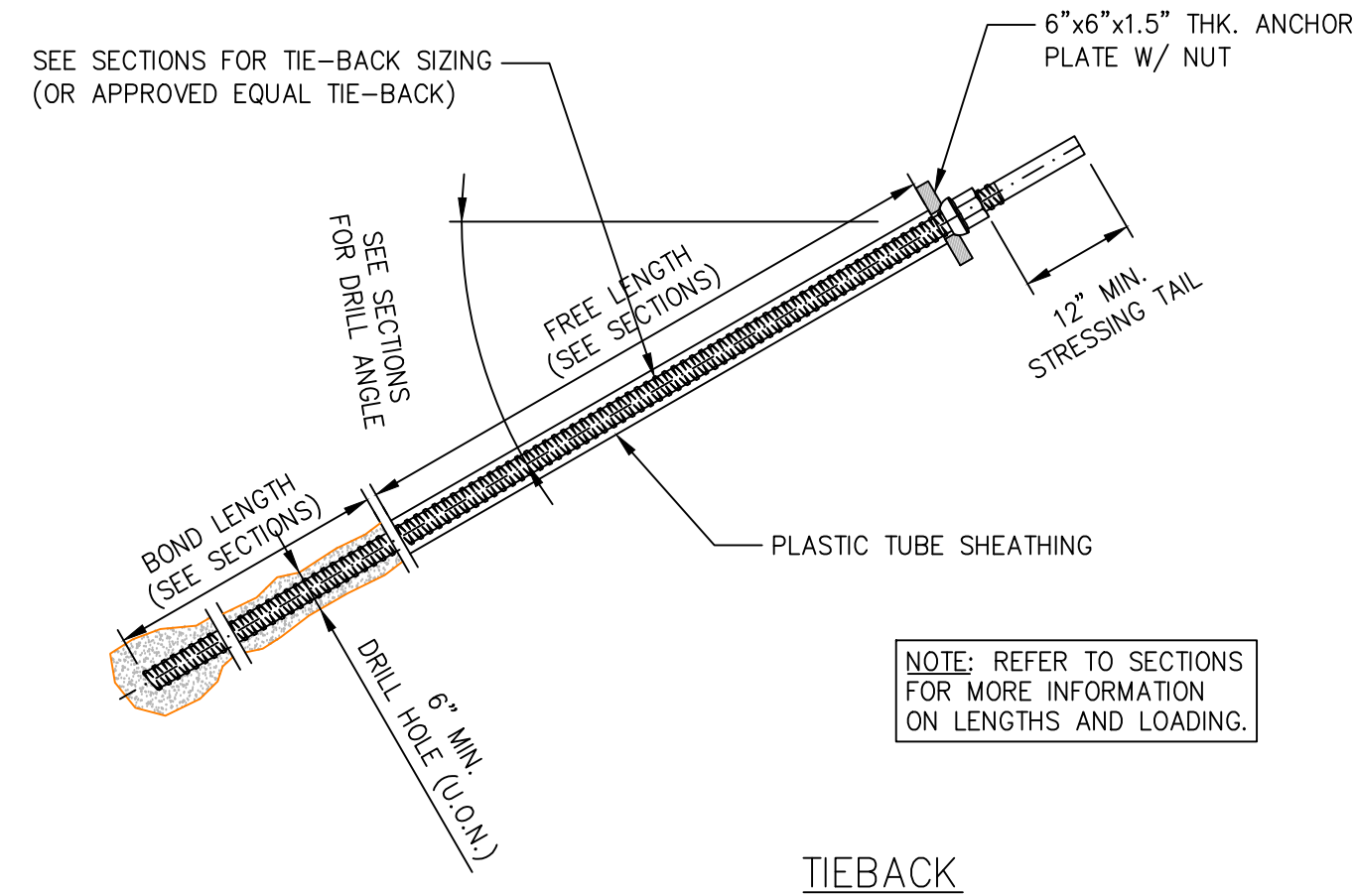
DETAIL FOR
TYPICAL TIE BACK AND LAGGING
ATTACHMENT DETAIL
SCALE: N.T.S.



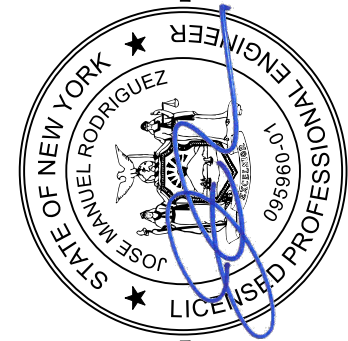
FRONT VIEW OF TIEBACK (SINGLE TIEBACK)
SCALE: N.T.S.



FRONT VIEW OF TIEBACK (DOUBLE TIEBACK)
SCALE: N.T.S.



TIEBACK



SESI SOILS / FOUNDATIONS
CONSULTING ENGINEERS SITE DESIGN
ENVIRONMENTAL
12A MAPLE AVE. PINE BROOK, N.J. 07068 PH: 973-808-9050

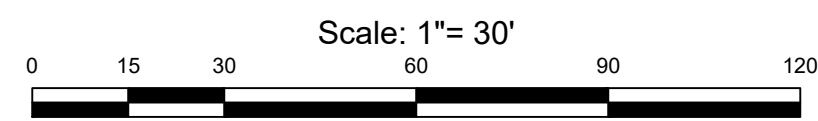
JOSE M. RODRIGUEZ, P.E.
PROFESSIONAL ENGINEER
N.Y. LIC. NO. 095960

PROPOSED NORTHEAST INTERSTATE
LOGISTICS CENTER
NY 312 & PUGSLEY ROAD
TOWN OF SOUTHEAST, NEW YORK

DETAILS

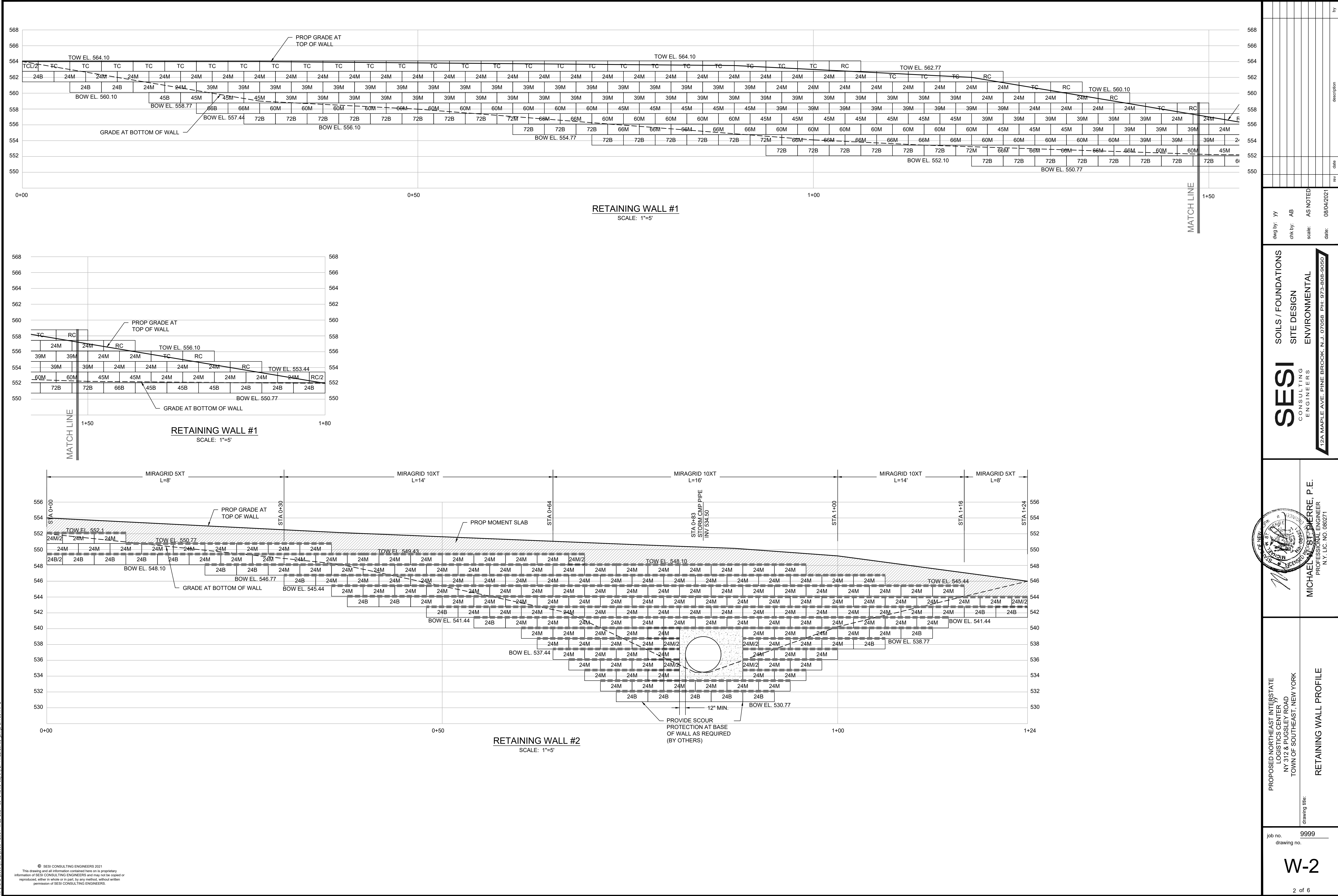
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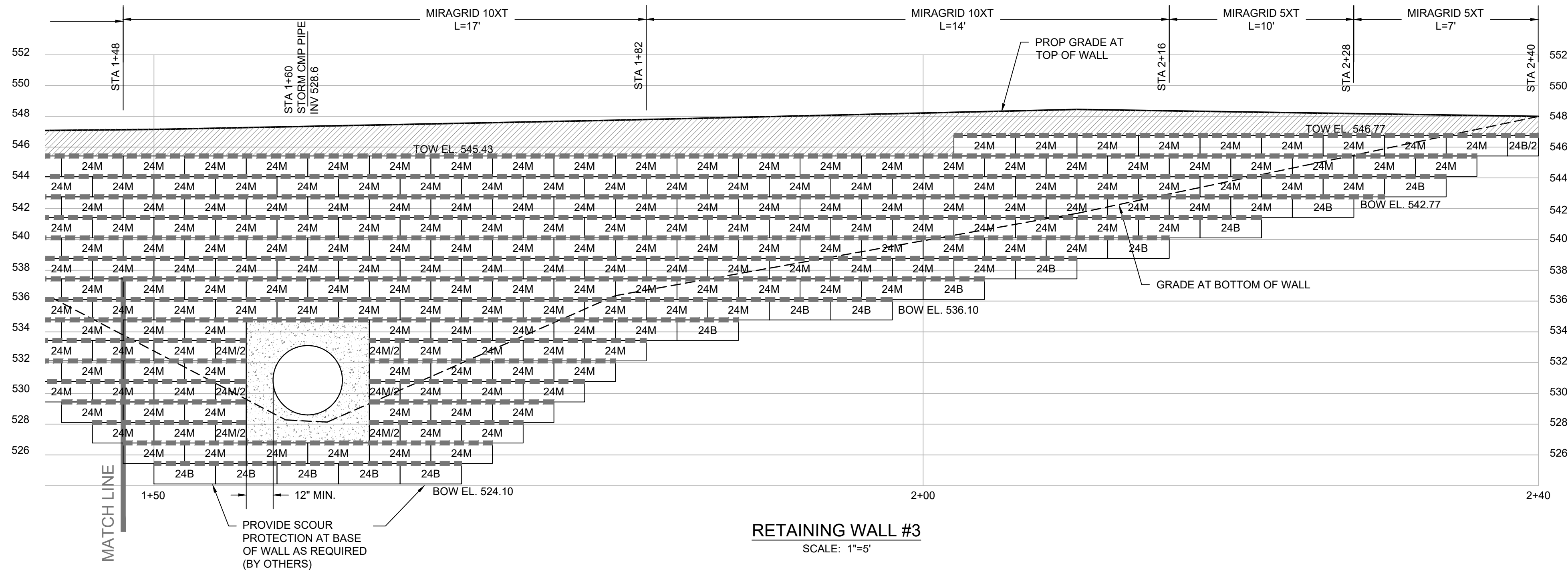
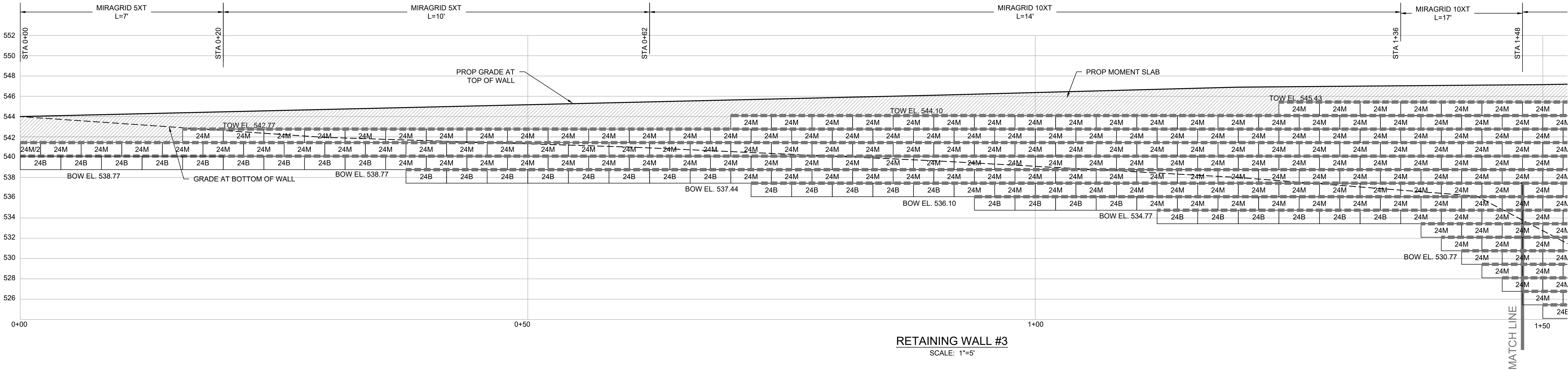
SOE-12



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W-1





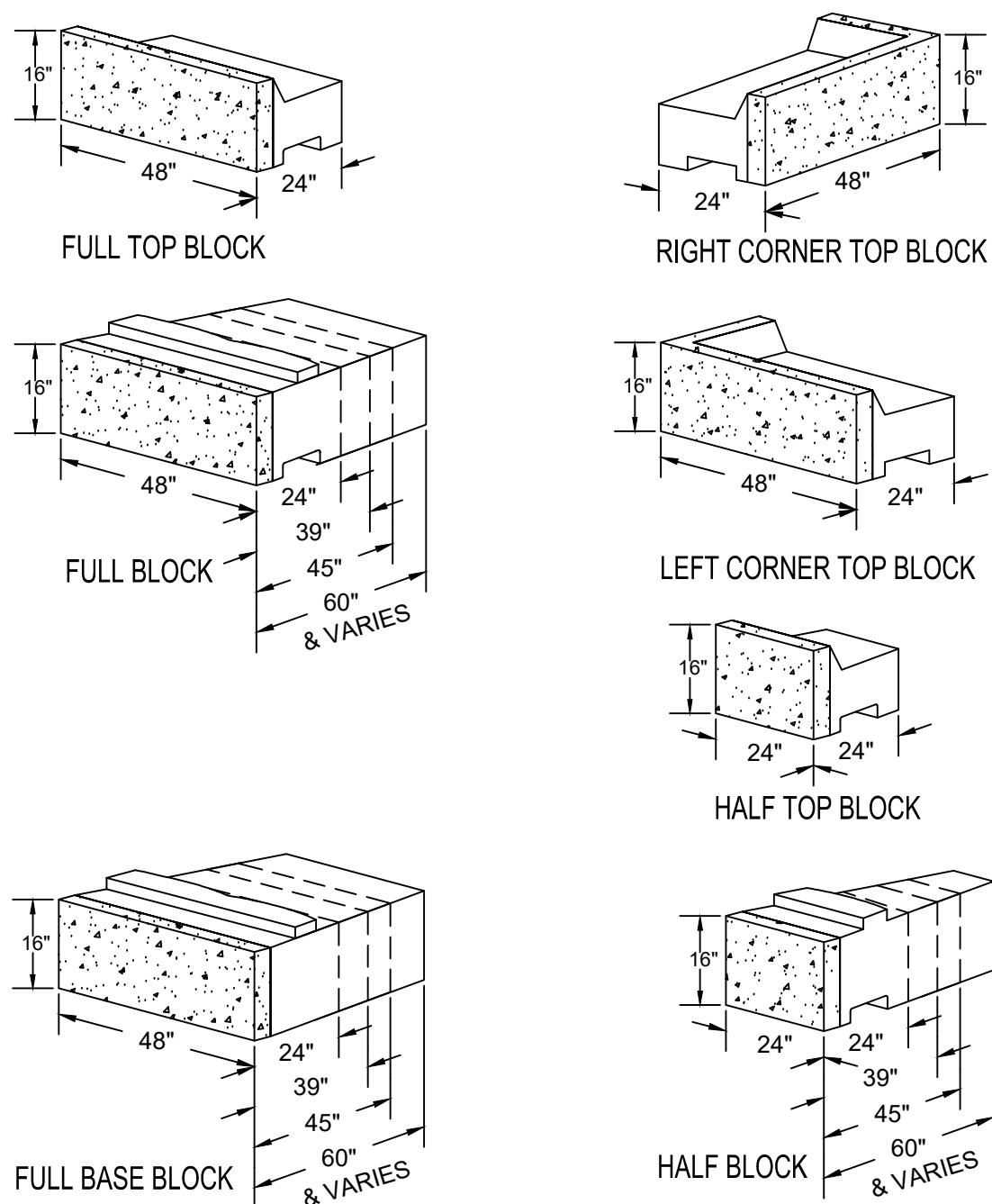
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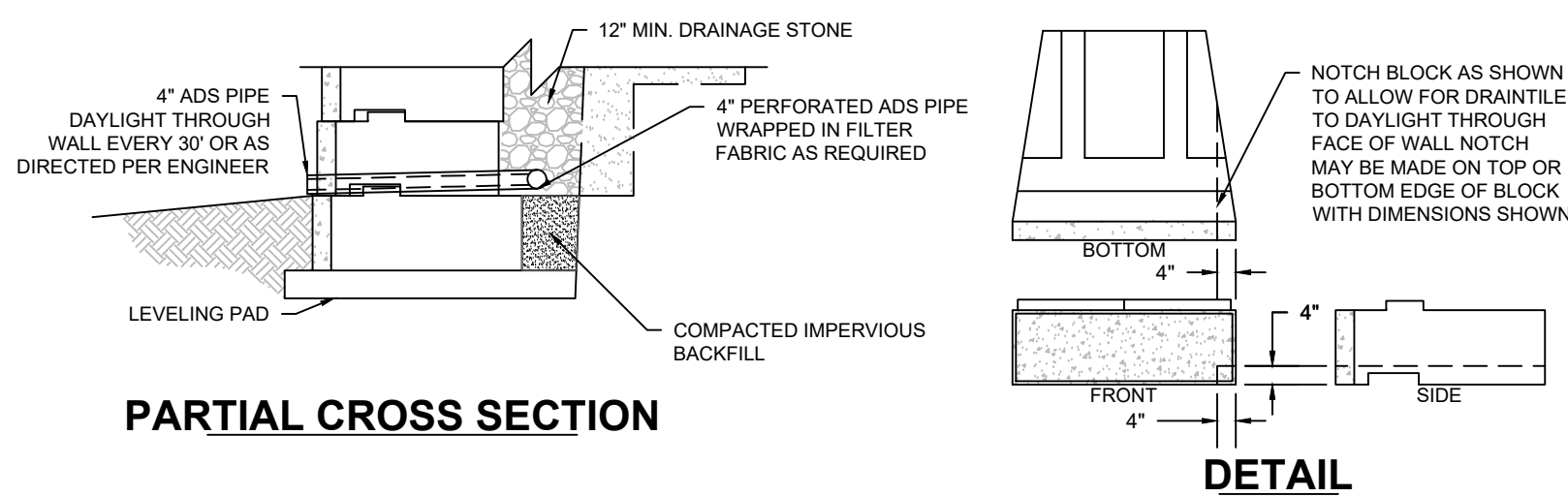
PROPOSED NORTHEAST INTERSTATE LOGISTICS CENTER NY 312 & PUGSLEY ROAD TOWN OF SOUTHEAST, NEW YORK		RETAINING WALL PROFILE	
drawing title:		job no. 9999 drawing no.	
MICHAEL J. ST. PIERRE, P.E. PROFESSIONAL ENGINEER N.Y. LIC. NO. 080271		SES CONSULTING ENGINEERS 12A MAPLE AVE. PINE BROOK, N.J. 07068 PH: 973-808-9050	
dwg by: JY		chk by: AB	
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description		date	
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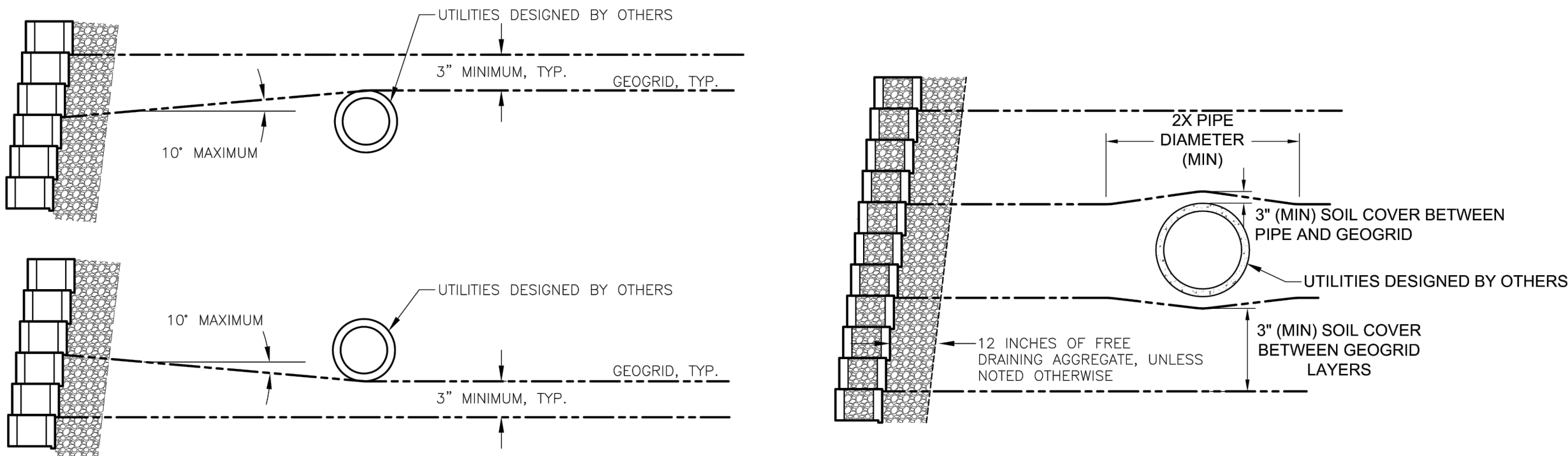
BLOCK TYPES
N.T.S.



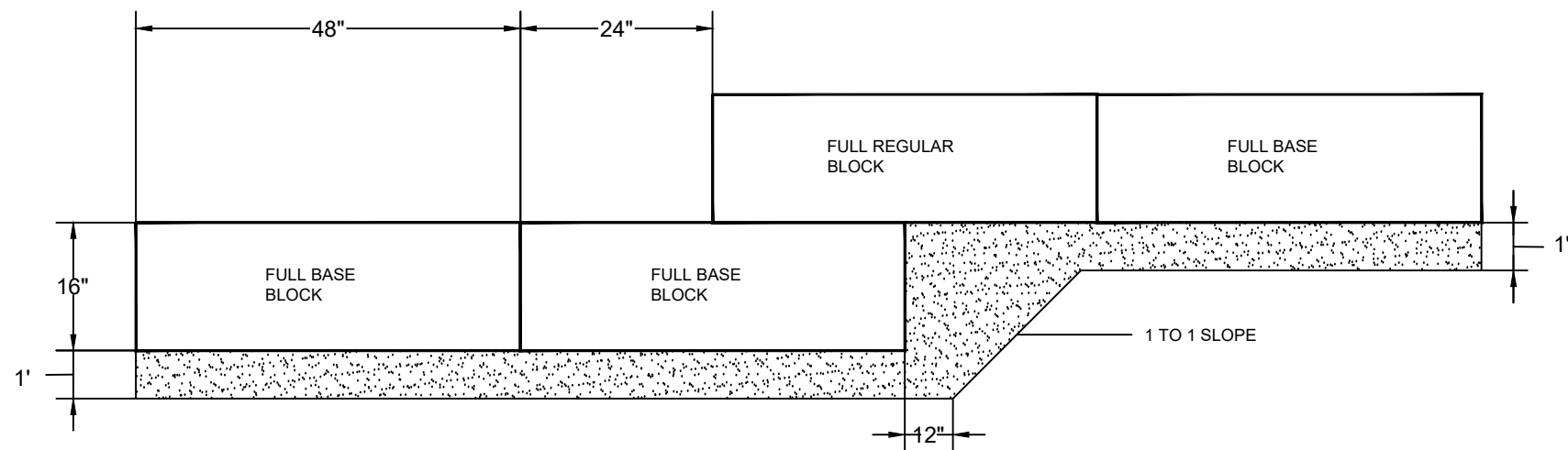
PARTIAL CROSS SECTION

DETAIL

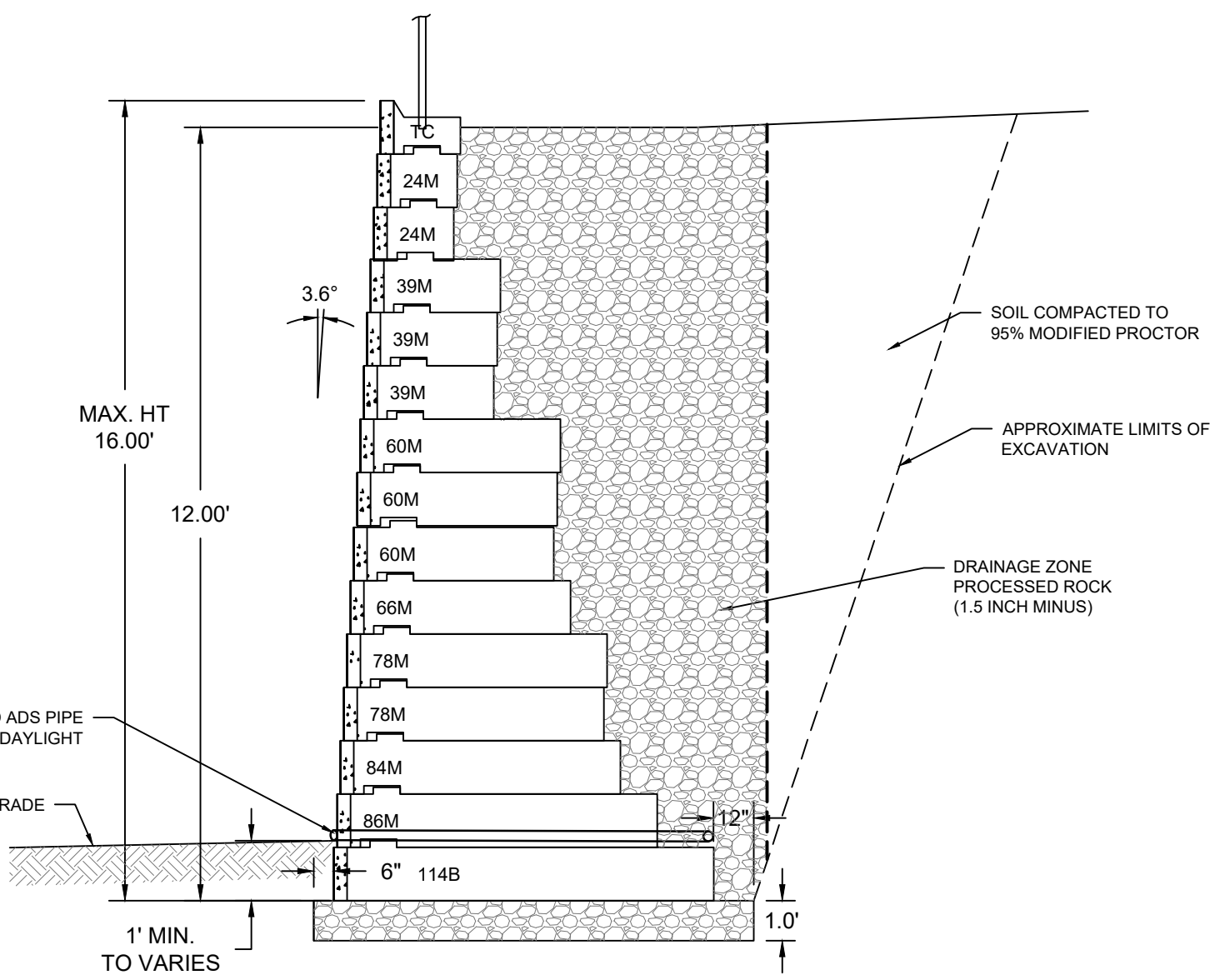
STANDARD DRAIN DETAILS
N.T.S.



GRID OVER PIPE DETAILS
N.T.S.

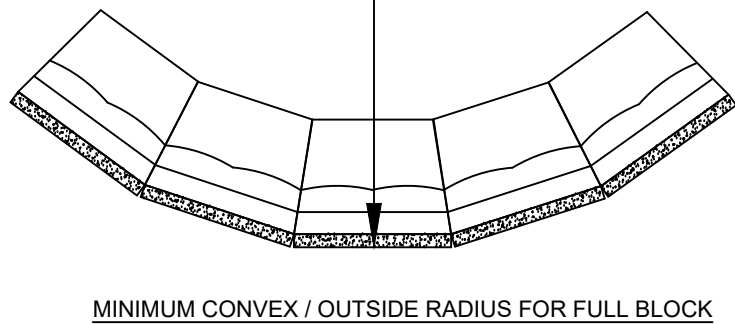


TYPICAL BASE ROW STEP UP
N.T.S.



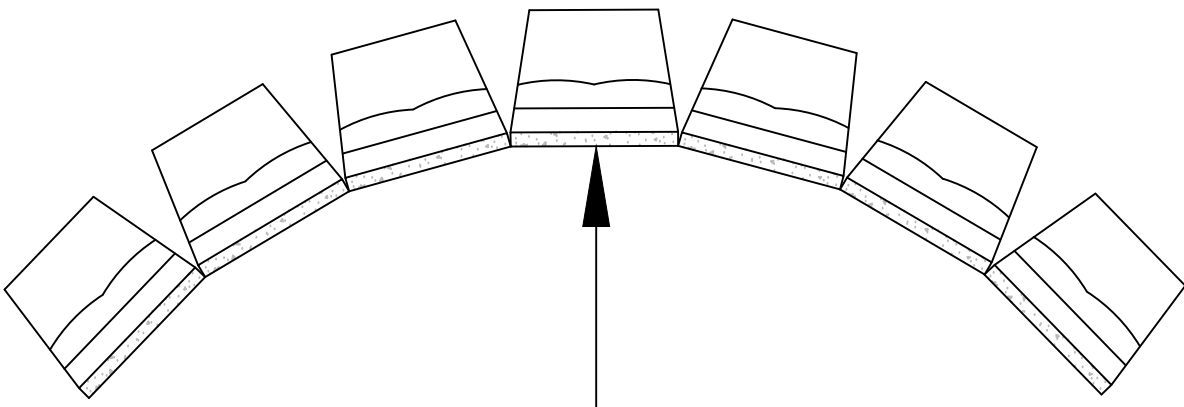
TYPICAL RECON WALL
CROSS SECTION
N.T.S.

Minimum turning radius for a one row high wall is 13'-1". However, see chart for recommended minimum base row radius for varying wall heights

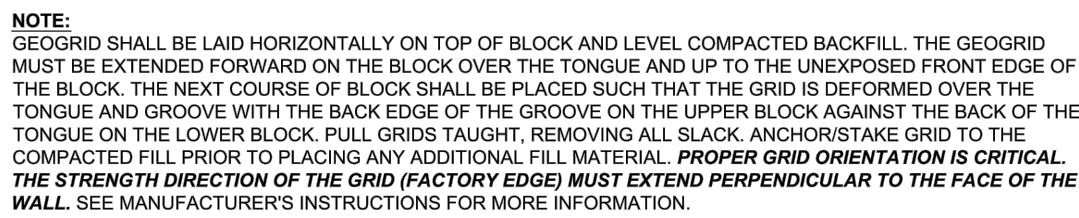


TYPICAL OUTSIDE RADIUS-FULL BLOCK
N.T.S.

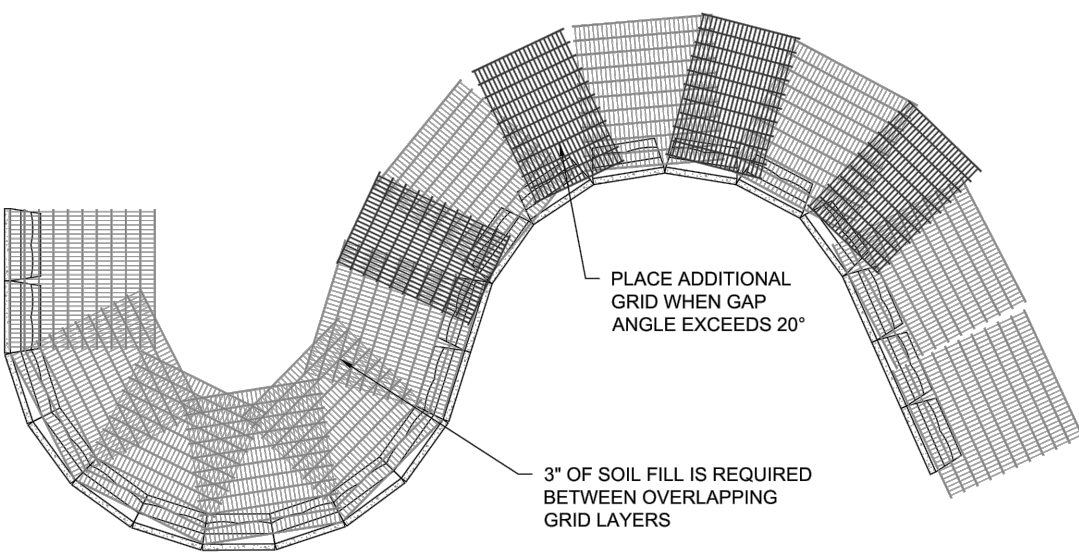
THE MINIMUM RADIUS ON THE BASE ROW OF A SINGLE COURSE WALL IS 15'-0". SEE CHART FOR MINIMUM RADIUS OF THE TOP ROW FOR VARYING WALL HEIGHTS.



TYPICAL INSIDE RADIUS FULL BLOCK
N.T.S.



GEOGRID PLACEMENT / ORIENTATION



GEOGRID INSTALLATION ON CURVES
N.T.S.

GEOGRID ORIENTATION AND CURVED WALLS

MINIMUM RADIUS TABLE CONVEX / OUTSIDE CURVE

WALL HEIGHT (FT.)	NUMBER OF ROWS OF BLOCK	MIN. RADIUS OF BASE ROW
2'-8"	2	14'-0"
4'-0"	3	14'-6"
5'-4"	4	15'-0"
6'-8"	5	15'-6"
8'-0"	6	16'-0"
9'-4"	7	16'-6"
10'-8"	8	17'-0"
12'-0"	9	17'-6"

Note: The minimum radius for an Outside / Convex Curve using the Full Block is 13'-1" for a one row high wall. For curved walls with multiple rows of block, the radius of the base row of block must be increased to accommodate the set back (and resulting tightening of the radius) in each row of block added to the wall. The above Table sets forth the minimum radius of the base row, given varying wall heights. See Block Specification and Installation Instructions for further details.

MINIMUM RADIUS TABLE
CONCAVE / INSIDE CURVE

WALL HEIGHT	NUMBER OF ROWS OF BLOCK	MINIMUM RADIUS TOP ROW
2'-8"	2	15'-2"
4'-0"	3	15'-4"
5'-4"	4	15'-8"
6'-8"	5	15'-8"
8'-0"	6	15'-10"
9'-4"	7	16'-0"
10'-8"	8	16'-2"
12'-0"	9	16'-4"

NOTE: THE MINIMUM BASE ROW RADIUS FOR A CONCAVE / INSIDE CURVE USING THE FULL BLOCK SHALL BE NO SMALLER THAN 15'-0" FOR A SINGLE COURSE WALL. THE RADIUS FOR EACH SUCCESSIVE ROW WILL INCREASE BY 2" PER COURSE OF BLOCK ADDED TO ACCOUNT FOR SETBACK. SEE BLOCK SPECIFICATION AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL DETAILS.

GENERAL NOTES

- DETAILS SHOWN IN ANY SECTIONS APPLY TO ALL SIMILAR SECTIONS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL ESTABLISH ALL GRADES, LINES LEVELS AND BENCH MARKS AS REQUIRED. SUBGRADE AND FINISHED GRADES SHALL CONFORM TO ELEVATIONS SHOWN ON THE DRAWINGS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS.
- THE CONTRACTOR SHALL PROVIDE, MAINTAIN, AND OPERATE PUMPS, Sumps, TRENCHES, AND OTHER APPROVED EQUIPMENT AND METHODS TO KEEP EXCAVATIONS FREE FROM WATER AND TO KEEP WORK FROM BEING DAMAGED BY WATER DURING ALL STAGES OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE FOR THE TEMPORARY FLOW OF WATER DURING THE STAGES OF CONSTRUCTION, SPECIFICALLY DURING THE CONSTRUCTION AROUND THE CULVERT AND DURING PROTECTION SCOUR INSTALLATION.
- THE CONTRACTOR AND SUBCONTRACTORS SHALL VISIT AND EXAMINE THE PREMISES SO AS TO FULLY UNDERSTAND ALL OF THE EXISTING CONDITIONS PERTAINING TO THEIR WORK.
- ALL DIMENSIONS AND DETAILS SHOWN ON THE CONTRACT DRAWINGS SHALL BE FIELD VERIFIED AND COORDINATED WITH THE G.C. BEFORE PROCEEDING WITH THEIR WORK.
- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND MUNICIPAL LAWS, ORDINANCES AND CONSTRUCTION CODES. THEY SHALL GIVE NOTICES AND OBTAIN ALL PERMITS NECESSARY FOR THIS WORK. THEY SHALL NOTIFY THE OWNER IF IN THEIR OPINION, ANY WORK IS OMITTED OR IF ANY WORK OR MATERIALS SHOWN OR SPECIFIED IS NOT IN ACCORDANCE WITH GOOD PRACTICE OF THESE RULES.
- WORK TO BE DONE SHALL BE ALL INCLUSIVE AND ANY WORK NOT SPECIFICALLY MENTIONED BUT REASONABLY IMPLIED SHALL BE INCLUDED. THIS INCLUDES ANY PATCH WORK NECESSARY.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TEMPORARY FENCES, RAILINGS, AND OTHER SAFEGUARDS, AND PROVIDE DANGER SIGNS, LIGHTING, ETC., AS REQUIRED AROUND ALL OPENINGS, EXCAVATIONS, AND ELSEWHERE AS NECESSARY, AND SHALL BE PROVIDED IN ACCORDANCE WITH OSHA AND THE REQUIREMENTS OF THE OWNER.
- THE DRAWINGS SHOW THE INTENT OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. SCHEDULING OF ALL WORK INCLUDING DEMOLITION TO BE COORDINATED WITH THE OWNER.
- EXISTING SURVEY MONUMENTS ENCOUNTERED, WHETHER SHOWN ON THE PLAN OR NOT, SHALL BE PROTECTED DURING CONSTRUCTION.
- ALL EXCAVATIONS MUST BE DONE IN ACCORDANCE WITH OSHA STANDARDS AND EVALUATED BY A COMPETENT PERSON.
- PROVIDE REGULAR INSPECTION/MAINTENANCE OF WALL UNDERDRAIN OUTLETS TO PREVENT CLOGGING AND/OR MISPERFORMANCE.
- HYDROSTATIC LOADING (UNBALANCED) IS NOT CONSIDERED IN THE ANALYSIS, IN ACCORDANCE WITH STANDARD PRACTICE. SUFFICIENT DRAINAGE MUST BE PROVIDED AT ALL TIMES SUCH THAT HYDROSTATIC LOADING (PORE PRESSURE) DOES NOT DEVELOP IN THE REINFORCED ZONE.
- SEISMIC PGA USED FOR DESIGN: PGA = 0.18, PER AASHTO GUIDELINES.
- NO HEAVY EQUIPMENT IS ALLOWED TO BE PRESENT WITHIN 5 FEET OF FACE OF THE RETAINING WALL.
- ASSUMED IN PLACE DESIGN SOIL PARAMETERS:
 - 18.1. RETAINED SOIL: (ON SITE OR IMPORTED) PHI = 34 DEGREES (MINIMUM) GAMMA = 125 PCF (MAXIMUM)
 - 18.2. FOUNDATION SOIL: (ON SITE OR IMPORTED) PHI = 34 DEGREES (MINIMUM) GAMMA = 125 PCF (MINIMUM)
 - 18.3. FOUNDATION SOIL ALLOWABLE BEARING CAPACITY: 4500 PSF
- THE OWNER/OWNER'S REPRESENTATIVE MUST RETAIN A GEOTECHNICAL ENGINEER/CONSTRUCTION TESTING FIRM TO EVALUATE THE REQUIRED FOUNDATION SOILS PARAMETERS PRIOR TO CONSTRUCTION. ANY UNSUITABLE SOILS ENCOUNTERED, AS DETERMINED BY THE OWNER'S GEOTECHNICAL ENGINEER, SHALL BE REMOVED AND REPLACED PROPERLY WITH SUITABLE SOILS AND COMPACTION PROCEDURES AS DIRECTED BY THE OWNER GEOTECHNICAL ENGINEER. UNSUITABLE SOILS ARE DEFINED AS SOILS THAT DO NOT HAVE A SUFFICIENT BEARING CAPACITY OR WILL RESULT IN EXCESSIVE WALL SETTLEMENT.
- AFTER THE INSTALLATION OF THE RETAINING WALL, EXCAVATION BELOW GRADE IS NOT ALLOWED UNLESS EXPRESS WRITTEN CONSENT IS GIVEN BY SESI CONSULTING ENGINEERS.
- IN ACCORDANCE WITH THE 3RD EDITION OF THE NCM DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS, IT IS THE PROJECT GEOTECHNICAL ENGINEER'S RESPONSIBILITY TO REVIEW THE MODULAR RETAINING WALLS FOR GLOBAL STABILITY.
- ANY EXCAVATION BEING PERFORMED FOR LATERAL OVERSIZING SHALL MAINTAIN A 1:1 SLOPE AWAY FROM THE EDGE OF THE LEVELING PAD, WHERE THE FRONT OF THE WALL EXISTS, AND FROM THE BACK OF THE LOWEST BLOCK OR REINFORCEMENT LAYER.
- DISCREPANCIES BETWEEN ANY INFORMATION ON THESE PLANS AND INFORMATION IN THE PROJECT SPECIFICATIONS ARE ENCOUNTERED, THE MORE RESTRICTIVE INFORMATION TAKES PRECEDENCE.
- WALL STATIONING SHOWN ON THE WALL ELEVATION PLAN IS EXCLUSIVELY PERTAINS TO THE STATIONING OF THE PROPOSED RETAINING WALL PLANS AND DOES NOT CORRELATE TO ANY OTHER STATIONING SHOWN ON THE GRADING PLANS. STATION 0+00 IS ON THE LEFT END OF THE WALL AS SEEN FROM THE FRONT OF THE WALL.

RETAINING WALL SPECIFICATIONS

PART 1 GENERAL

- DESCRIPTION
 - WORK INCLUDES FURNISHING AND INSTALLING MODULAR BLOCK RETAINING WALL UNITS TO THE LINES AND GRADES DESIGNATED ON THE CONSTRUCTION DRAWINGS AND AS SPECIFIED HEREIN.
 - WORK INCLUDES PREPARING FOUNDATION SOIL, FURNISHING AND INSTALLING LEVELING PAD AND BACKFILL TO THE LINES AND GRADES DESIGNATED ON THE CONSTRUCTION DRAWINGS.
 - FURNISHING AND INSTALLING ALL APPURTENANT MATERIALS REQUIRED FOR CONSTRUCTION OF THE RETAINING WALL AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- REFERENCE STANDARDS
 - ASTM C140-75 SAMPLING AND TESTING CONCRETE MASONRY UNITS.
 - ASTM C145-85 SOLID LOAD BEARING CONCRETE MASONRY UNITS.
 - ASTM C1372 SEGMENTAL RETAINING WALL UNITS.
 - ASTM C92 READY-MIXED CONCRETE.
- DELIVERY, STORAGE, AND HANDLING
 - CONTRACTOR SHALL CHECK THE MATERIALS UPON DELIVERY TO ASSURE THAT PROPER MATERIAL HAS BEEN RECEIVED.
 - CONTRACTOR SHALL PREVENT EXCESSIVE MUD, WET CEMENT, EPOXY, GREASE, AND LIKE MATERIALS WHICH MAY AFFIX THEMSELVES, FROM COMING IN CONTACT WITH THE MATERIALS.
 - CONTRACTOR SHALL PROTECT THE MATERIALS FROM DAMAGE, DAMAGED MATERIAL SHALL NOT BE INCORPORATED IN THE RETAINING WALL STRUCTURE.

PART 2 RETAINING WALL

- MATERIALS
 - MASONRY WALL UNITS SHALL BE RECON RETAINING WALL UNITS AS MANUFACTURED BY NORTHEAST CONCRETE PRODUCTS OR APPROVED RECON DISTRIBUTOR.
 - CONCRETE WALL UNITS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI IN ACCORDANCE WITH ASTM C-90. THE CONCRETE SHALL HAVE ADEQUATE FREEZE/THAW PROTECTION WITH A MAXIMUM MOISTURE ABSORPTION RATE OF 8%.
 - EXTERIOR DIMENSIONS MAY VARY IN ACCORDANCE WITH ASTM C90-85.
 - UNITS SHALL HAVE ANGLED SIDES CAPABLE OF CONCAVE AND CONVEX ALIGNMENT CURVES WITH A MINIMUM RADIUS OF 13'-1".
 - UNITS SHALL BE INTERLOCKED WITH (2) TONGUE AND GROOVE SHAPED PROTRUSIONS ON THE TOP AND BOTTOM OF EACH UNIT.
- BASE MATERIAL
 - MATERIAL SHALL CONSIST OF CRUSHED STONE AS SHOWN ON CONSTRUCTION DRAWINGS.
- UNIT FILL
 - PLACE A MIN. OF 12" OF DRAINAGE FILL BEHIND THE RETAINING WALL UNITS AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- BACKFILL
 - DRAINAGE FILL SHALL CONSIST OF PROCESSED ROCK (1.5 INCH MINUS).
 - MATERIAL EXCAVATED DURING CONSTRUCTION OF THE WALL SHALL BE CONSIDERED UNSUITABLE FOR BACKFILL, UNLESS THE ENGINEER APPROVES IT PRIOR TO USE.
 - ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 12 INCH LIFTS AND COMPACTED TO A MINIMUM OF 95 PERCENT OF MODIFIED PROCTOR DENSITY. (ASTM D1557)

PART 3 EXECUTION

- EXCAVATION
 - CONTRACTOR SHALL EXCAVATE TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS. CONTRACTOR SHALL BE CAREFUL NOT TO DISTURB EMBANKMENT MATERIALS BEYOND LINES SHOWN.
- FOUNDATION SOIL PREPARATION
 - FOUNDATION SOIL SHALL BE EXCAVATED AS REQUIRED FOR FOOTING DIMENSIONS SHOWN ON THE CONSTRUCTION DRAWINGS, OR AS DIRECTED BY THE ENGINEER.
 - FOUNDATION SOIL SHALL BE EXAMINED BY A GEOTECHNICAL ENGINEER TO ASSURE THAT THE ACTUAL FOUNDATION SOIL STRENGTH MEETS OR EXCEEDS ASSUMED DESIGN STRENGTH. SOILS NOT MEETING REQUIRED STRENGTH SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIAL AS DETERMINED BY GEOTECHNICAL ENGINEER.
 - OVER-EXCAVATED AREAS SHALL BE FILLED WITH APPROVED COMPACTED BACKFILL MATERIAL OR CRUSHED STONE.
- BASE LEVELING PAD
 - LEVELING PAD SHALL CONSIST OF CRUSHED STONE AS SHOWN ON THE CONSTRUCTION DRAWINGS. PAD DIMENSIONS SHALL EXTEND BEYOND THE BLOCKS IN ALL DIRECTIONS TO A DISTANCE AT LEAST EQUAL TO THE DEPTH OF THE PAD.
 - LEVELING PAD SHALL BE PREPARED TO INSURE COMPLETE CONTACT OF RETAINING WALL BASE UNIT.
 - LEVELING PAD MATERIALS SHALL BE TO THE DEPTHS AND WIDTHS SHOWN.
- UNIT INSTALLATION
 - FIRST COURSE OF CONCRETE WALL BASE UNIT SHALL BE PLACED ON THE BASE-LEVELING PAD. THE UNITS SHALL BE PLACED WITH THE AESTHETIC SURFACE FACING OUT AND THE FRONT EDGES TIGHT. ALL UNITS SHALL BE CHECKED FOR LEVEL AND ALIGNMENT AS THEY ARE PLACED. THE FIRST COURSE IS THE MOST IMPORTANT TO INSURE ACCURATE AND ACCEPTABLE RESULTS.
 - INSURE THAT UNITS ARE IN FULL CONTACT WITH BASE.
 - UNITS ARE PLACED SIDE BY SIDE FOR FULL LENGTH OF WALL ALIGNMENT. ALIGNMENT MAY BE DONE BY MEANS OF A STRING LINE OR OFFSET FROM BASE LINE.
 - FILL ALL VOID BETWEEN UNITS WITH UNIT FILL MATERIAL. TAMP FILL.
 - OVERLAP ALL EXCESS MATERIAL FROM TOP OF UNITS. INSURE EACH UNIT IS COMPLETELY BACKFILLED AND COMPACTED PRIOR TO PROCEEDING TO NEXT COURSE.
 - POSITION NEXT COURSE OF BLOCK SUCH THAT THE BACK OF THE BLOCK ARE OFFSET FROM THE SEAM IN THE BLOCK FOR THE COURSE BELOW.
 - LAY UP EACH COURSE INSURING THAT THE TONGUES PROTRUDE INTO THE GROOVES WITHIN THE ADJOINING COURSE ABOVE. PULL EACH UNIT FORWARD, AWAY FROM THE EMBANKMENT, AGAINST THE PROTRUSIONS IN THE PREVIOUS COURSE AND BACKFILL AS THE COURSE IS COMPLETED, REPEAT PROCEDURE TO THE EXTENT OF WALL HEIGHT.
 - SPREAD BACKFILL IN UNIFORM LIFTS NOT EXCEEDING 8 INCHES. EMPLOY METHODS USING LIGHTWEIGHT COMPACTION EQUIPMENT THAT WILL NOT DISTURB THE STABILITY OR BATTER OF THE WALL. HAND-OPERATED PLATE COMPACTION EQUIPMENT SHALL BE USED AROUND THE BLOCK AND WITHIN 3 FEET OF THE WALL.
 - AS APPROPRIATE WHERE THE WALL CHANGES ELEVATION, UNITS CAN BE STEPPED WITH GRADE OR TURNED INTO THE EMBANKMENT WITH A CONVEX RETURN END. PROVIDE APPROPRIATE BURNED UNITS ON COMPACTED LEVELING PAD IN AREA OF CONVEX RETURN END.
 - CUT RECON BLOCKS PER DETAILS TO INSTALL WEEPS.

PART 4 TOLERANCES

- VERTICAL ALIGNMENT
 - VERTICAL ALIGNMENT SHALL BE PLUS OR MINUS 1-1/2 INCHES OVER A 10 FOOT SPAN, AND A MAXIMUM DIFFERENTIAL OF 3 INCHES OVER THE WALL'S LENGTH.
- HORIZONTAL ALIGNMENT
 - HORIZONTAL LOCATION CONTROL: GERMANE TO GRADING PLAN.
 - STRAIGHT LINES SHALL BE PLUS OR MINUS 1-1/2 INCHES OVER A 10 FOOT SPAN, AND A MAXIMUM DIFFERENTIAL OF 3 INCHES OVER THE WALL'S LENGTH.
 - CORNERS AND RADI SHALL BE PLUS OR MINUS 12 INCHES.
 - CURVES AND SERPENTINE RADI SHALL BE PLUS OR MINUS 2 FEET.
- BATTER
 - POST CONSTRUCTION WALL BATTER SHALL BE WITH 2 DEGREES OF THE DESIGN BATTER AS DEPICTED ON THE PLANS.
 - BULGING SHALL NOT EXCEED PLUS OR MINUS 1-1/2 INCHES OVER A 10 FOOT SPAN.

PART 5 GEOGRID PRODUCTS

- DEFINITIONS
 - GEOGRID PRODUCTS SHALL BE UNIAXIAL HIGH STRENGTH POLYESTER WOVEN FIBER MATERIALS, SPECIFICALLY FABRICATED FOR USE AS SOIL REINFORCEMENT.
 - WALL FILL IS A FREE DRAINING GRANULAR MATERIAL USED WITHIN 8' 12" BEHIND THE CONCRETE UNITS.
 - BACKFILL IS THE SOIL WHICH IS USED AS FILL FOR THE REINFORCED SOIL MASS.
 - FOUNDATION SOIL IS THE IN-SITU NATURAL SOIL.
- GEOGRID
 - GEOGRID SHALL BE THE TYPE AS SHOWN ON THE DRAWING HAVING THE PROPERTY REQUIREMENTS AS DESCRIBED WITHIN THE MANUFACTURERS SPECIFICATIONS.

PART 6 GEOGRID INSTALLATION

- GEOGRID INSTALLATION
 - THE GEOGRID SOIL REINFORCEMENT SHALL BE LAID HORIZONTALLY ON COMPACTED BACKFILL. CUT GEOGRID TO DESIGNED EMBANKMENT LENGTH AND PLACE ON TOP OF RECON BLOCK OVER ALIGNMENT LINE AND TO WITHIN 1/2" OF THE FACE OF THE BLOCK. PULL TAUT, AND ANCHOR BEFORE BACKFILL IS PLACED ON THE GEOGRID.
 - GEOGRIDS SHALL BE CONTINUOUS. SPLICING PARALLEL TO THE WALL IS NOT PERMITTED.
 - SLACK IN THE GEOGRID AT THE WALL UNIT CONNECTIONS SHALL BE REMOVED.
 - GEOGRID SHALL BE LAID AT THE PROPER ELEVATION AND ORIENTATION AS SHOWN ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.
 - CORRECT ORIENTATION (ROLL DIRECTION) OF THE GEOGRID SHALL BE VERIFIED BY THE ON-SITE GEOTECHNICAL ENGINEER.
 - TO PRETENSION GEOGRID, PULL PINNED GEOGRID TAUT TO ELIMINATE LOOSE FOLDS. STAKE OR SECURE BACK EDGE OF GEOGRID PRIOR TO END AND DURING BACKFILL AND COMPACTION.
- FILL PLACEMENT
 - BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM 8 INCH LIFTS AND COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY. IN-PLACE DENSITY TESTS SHALL BE PERFORMED BY THE ON-SITE GEOTECHNICAL ENGINEER TO VERIFY ADEQUACY OF COMPACTION.
 - BACKFILL SHALL BE PLACED, SPREAD, AND COMPACTED IN SUCH A MANNER THAT MINIMIZES THE DEVELOPMENT OF SLACK OR LOSS OF PRETENSION OF THE GEOGRID. THIS CAN BE ACCOMPLISHED BY PLACING AND SPREADING THE FILL FROM THE WALL UNIT OUTWARD.
 - BACKFILL SHALL BE PLACED FROM THE WALL OUTWARD INTO THE EMBANKMENT TO INSURE THE GEOGRID REMAINS TAUT.
 - TRACKED CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED DIRECTLY ON THE GEOGRID. A MINIMUM BACKFILL THICKNESS OF 8 INCHES IS REQUIRED PRIOR TO OPERATION OF TRACKED VEHICLES OVER THE GEOGRID. TURNING OF TRACKED VEHICLES SHOULD BE DEPT TO A MINIMUM TO PREVENT TRACKS FROM DISPLACING THE FILL AND DAMAGING THE GEOGRID.
 - RUBBER-TIRED EQUIPMENT MAY PASS OVER THE GEOGRID REINFORCEMENT AT SLOW SPEEDS, LESS THAN 10 MPH. SUDDEN BRAKING AND SHARP TURNING SHALL BE AVOIDED.
 - SOIL TO BE USED WITHIN THE REINFORCED FILL ZONE SHALL BE CAPABLE OF SATISFYING THE FOLLOWING DESIGN CRITERIA: PHI ANGLE EQUAL TO OR GREATER THAN 34 DEGREES AND A UNIT WEIGHT OF A MINIMUM OF 125 PCF.

PROPOSED NORTHEAST INTERSTATE
LOGISTICS CENTER
NY 312 & PUGSLEY ROAD
TOWN OF SOUTHEAST, NEW YORK

RETAINING WALL DETAILS AND NOTES

job no. 9999
drawing no.

SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL

SES
CONSULTING
ENGINEERS

12A MAPLE AVE. PINE BROOK, N.J. 07068 PH: 973-808-9050

dwg by: yy
chk by: AB
scale: AS NOTED
date: 08/04/2021

description
rev
date

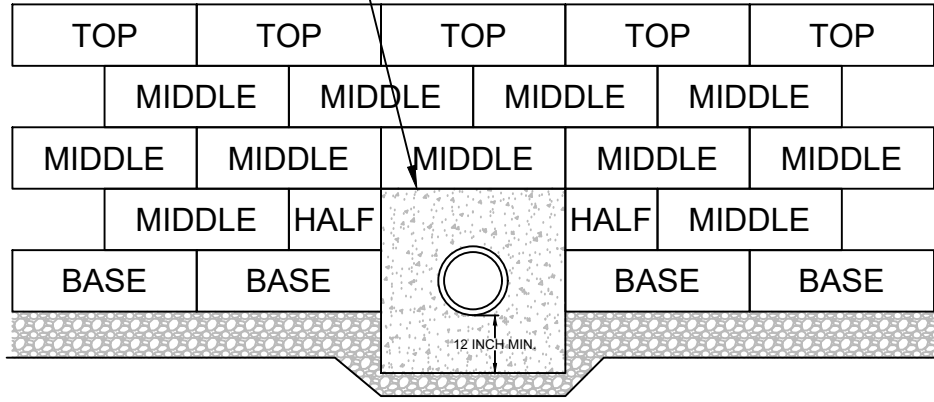
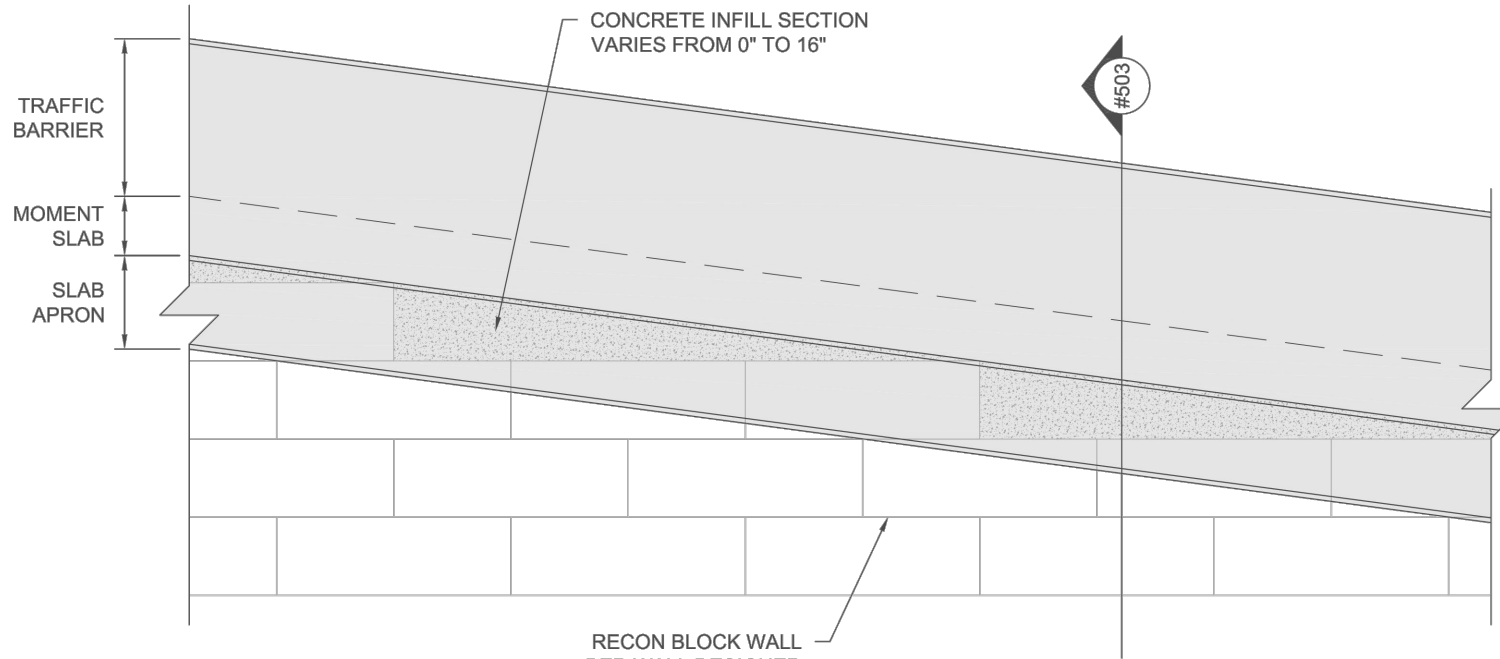


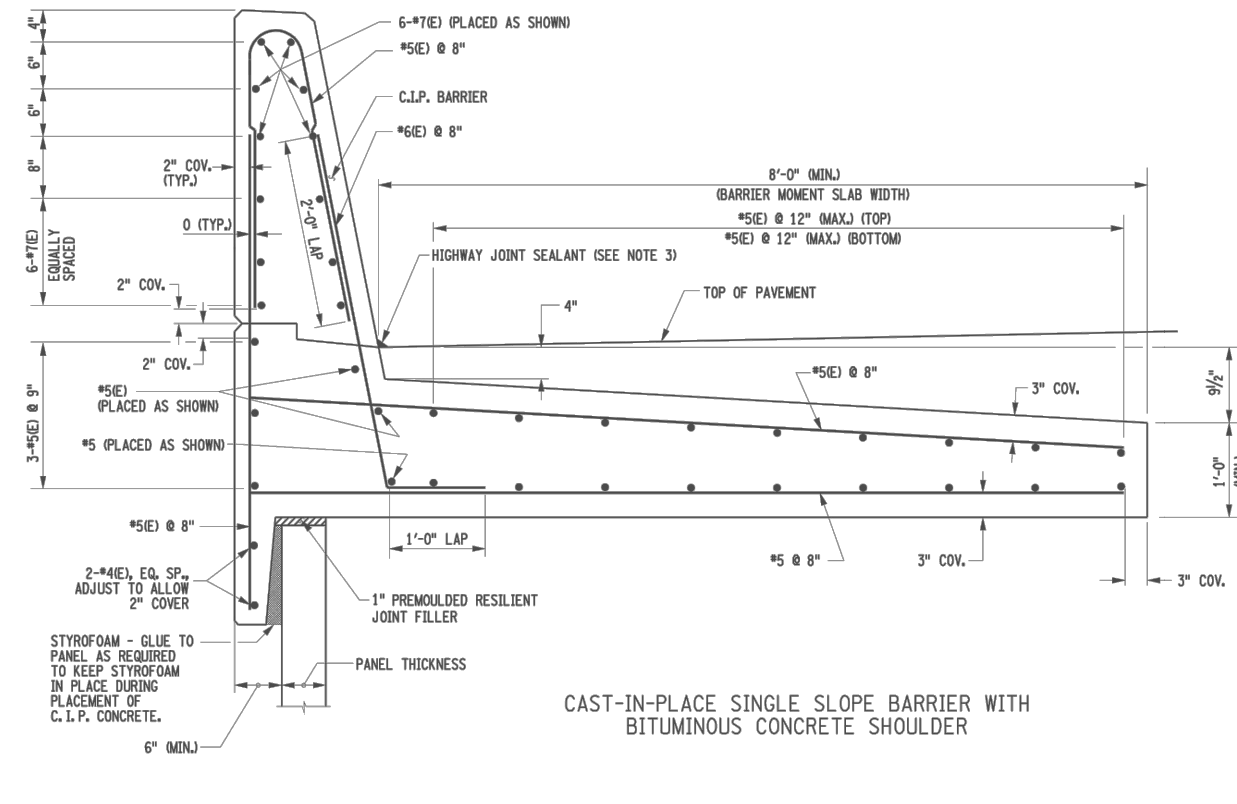
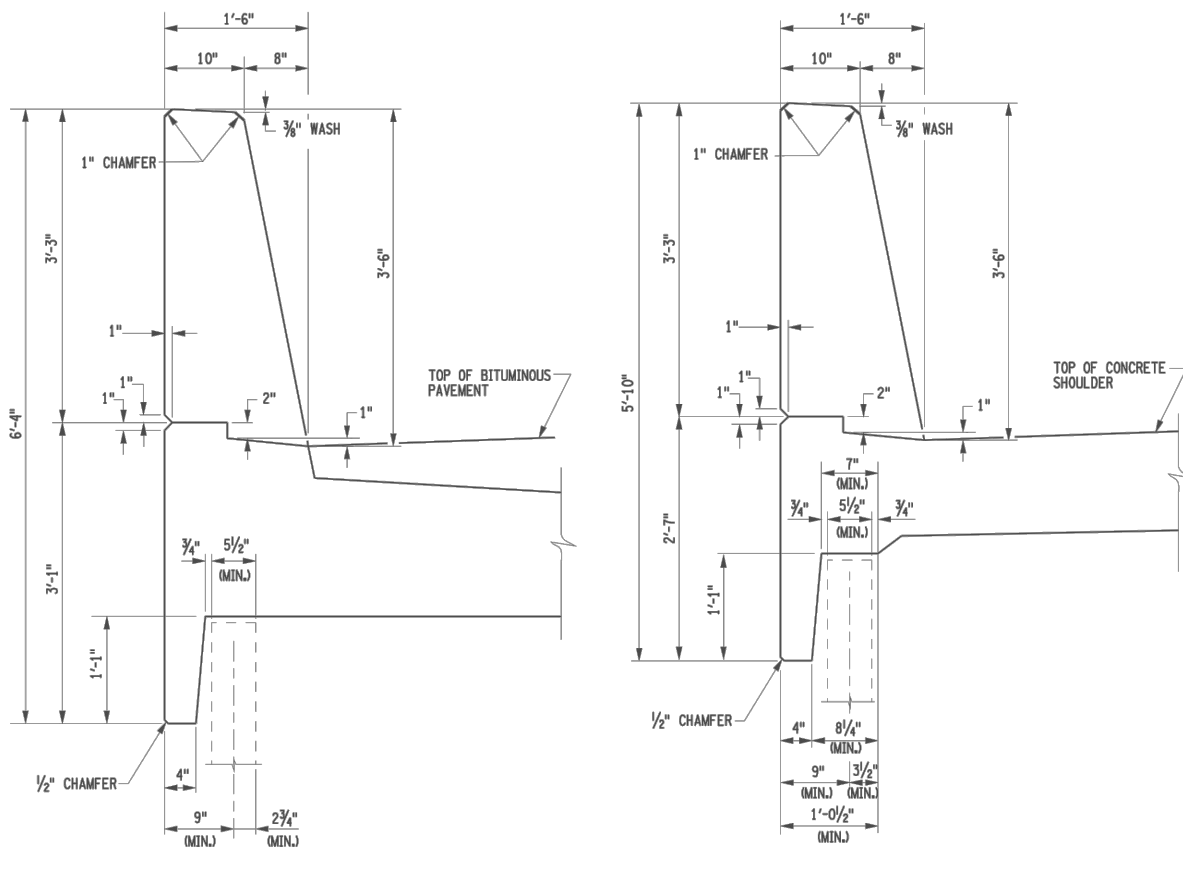
Diagram illustrating the construction details for a pipe penetration through a wall, showing the following components and labels:

- RECON GRAVITY OR GRID WALL PER DESIGN DRAWINGS
- PLACE CONCRETE COLLAR AROUND PIPE MATCH ADJACENT BLOCK DEPTHS, PLUS 12 INCHES - DESIGN BY OTHERS
- 24T
- 24M
- 24M
- PIPE PENETRATING WALL
- 24B
- SCOUR PROTECTION (BY OTHERS)

SCOUR PROTECTION (BY OTHERS)



N.T.S.

CAST-IN-PLACE SINGLE SLOPE BARRIER WITH
BITUMINOUS CONCRETE SHOULDER

CAST-IN-PLACE SINGLE SLOPE BARRIER
FOR MSE WALLS
(BITUMINOUS PAVEMENT)

CAST-IN-PLACE SINGLE SLOPE BARRIER FOR MSE WALLS (CONCRETE PAVEMENT)

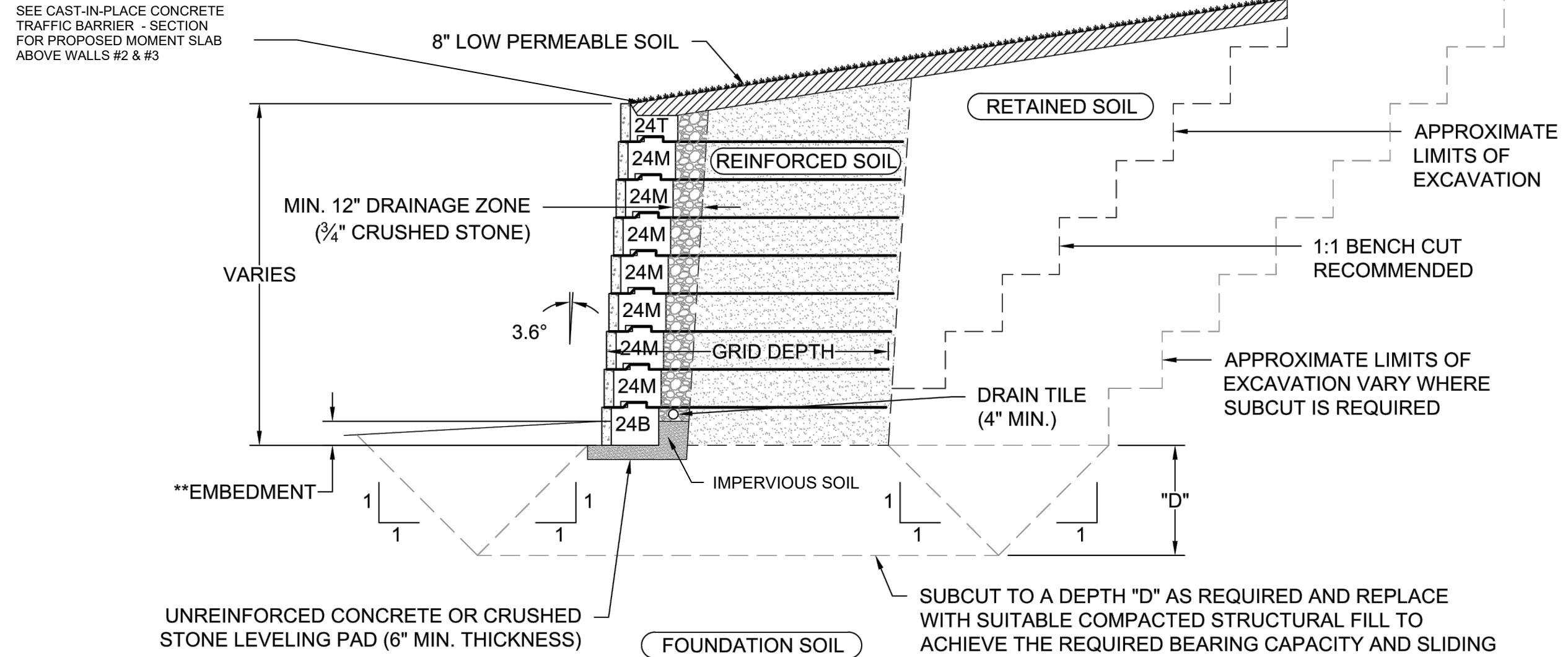
NOTE:

7

ISSUED
5/01/04
REVISED

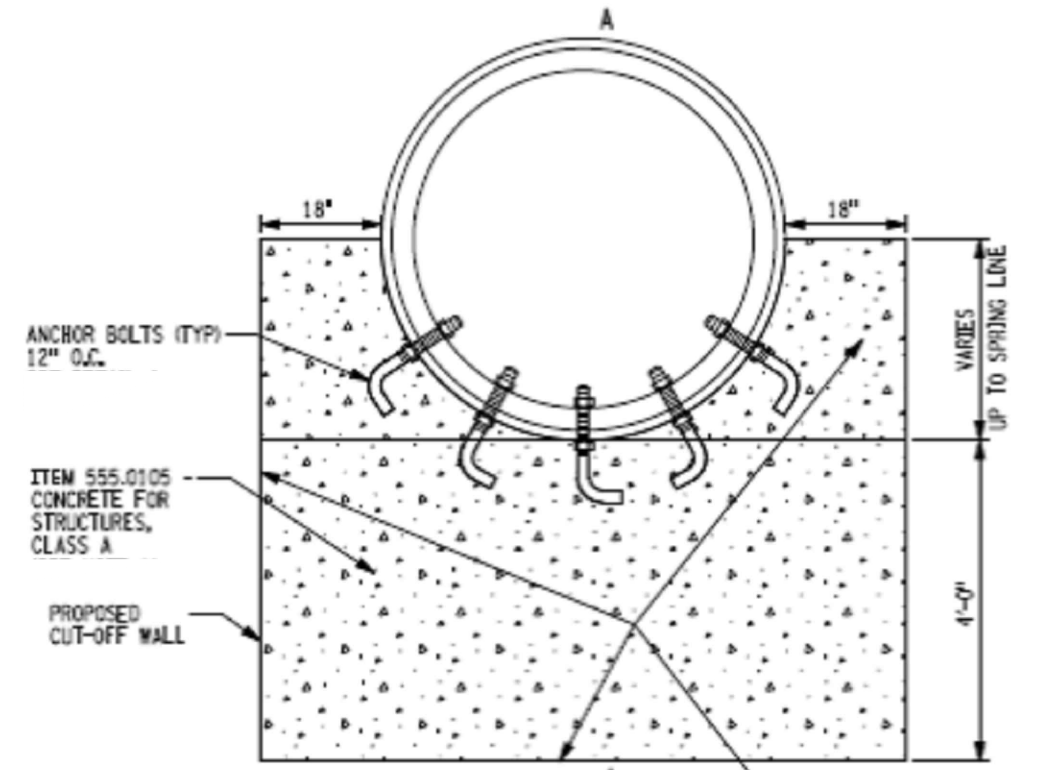
TRAFFIC BARRIER AND MOMENT SLAB NOTES

1. MINIMUM TOTAL LENGTH OF BARRIER MOMENT SLAB IS 20' IN. WHEN PINNED TO AN ADJACENT SLAB 30' LONG. WHEN PLACED UNDER ASPHALT.
2. PLACE EXPANSION JOINTS IN BARRIER TO MATCH WITH PAVEMENT JOINTS. DO NOT LOCATE THE BARRIER EXPANSION JOINT WITHIN 6' IN. FROM CENTERLINE OF LIGHT POLE OR 2' IN. FROM CENTERLINE OF JUNCTION BOX.
3. HIGHWAY JOINT SEALANT - ASTM D6680, TYPE II APPEARING ON THE DEPARTMENT'S APPROVED LIST.
4. EPOXY REINFORCING BARS SHOWN FOR ILLUSTRATIVE PURPOSES. OTHER CORROSION PROTECTION METHODS ACCEPTABLE.



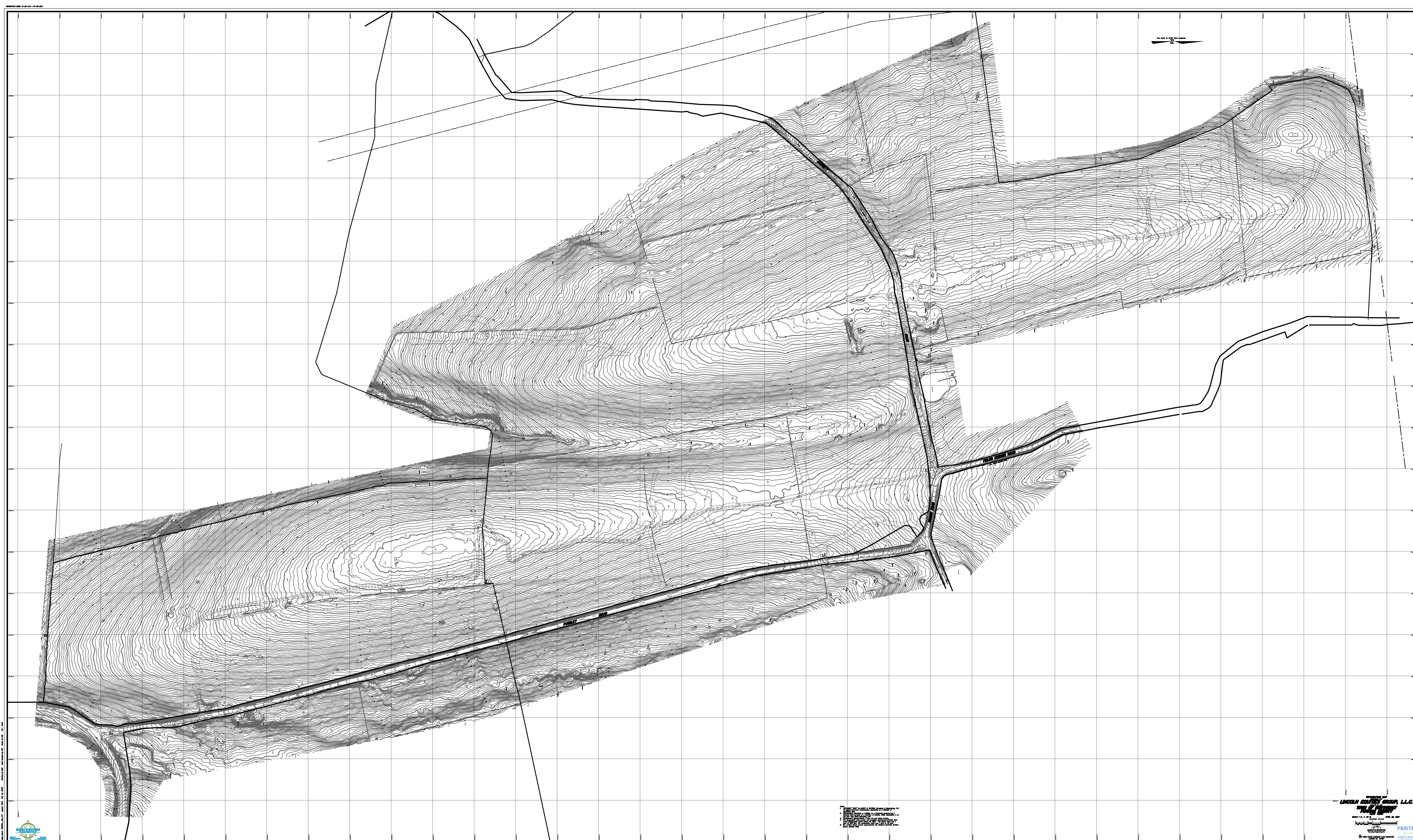
****EMBEDMENT SHOULD BE THE GREATER OF 6" OR H/20 FOR WALLS WITH LEVEL GRADE AT THE TOE. REFER TO RECON'S EMBEDMENT RECOMMENDATION DOCUMENT FOR ADDITIONAL INFORMATION FOR WALLS WITH A TOE SLOPE CONDITION.**

N.T.S.



ELEVATION VIEW
CUT-OFF WALL DETAIL
NOT TO SCALE

ELEVATION VIEW
CUT-OFF WALL DETAIL
NOT TO SCALE



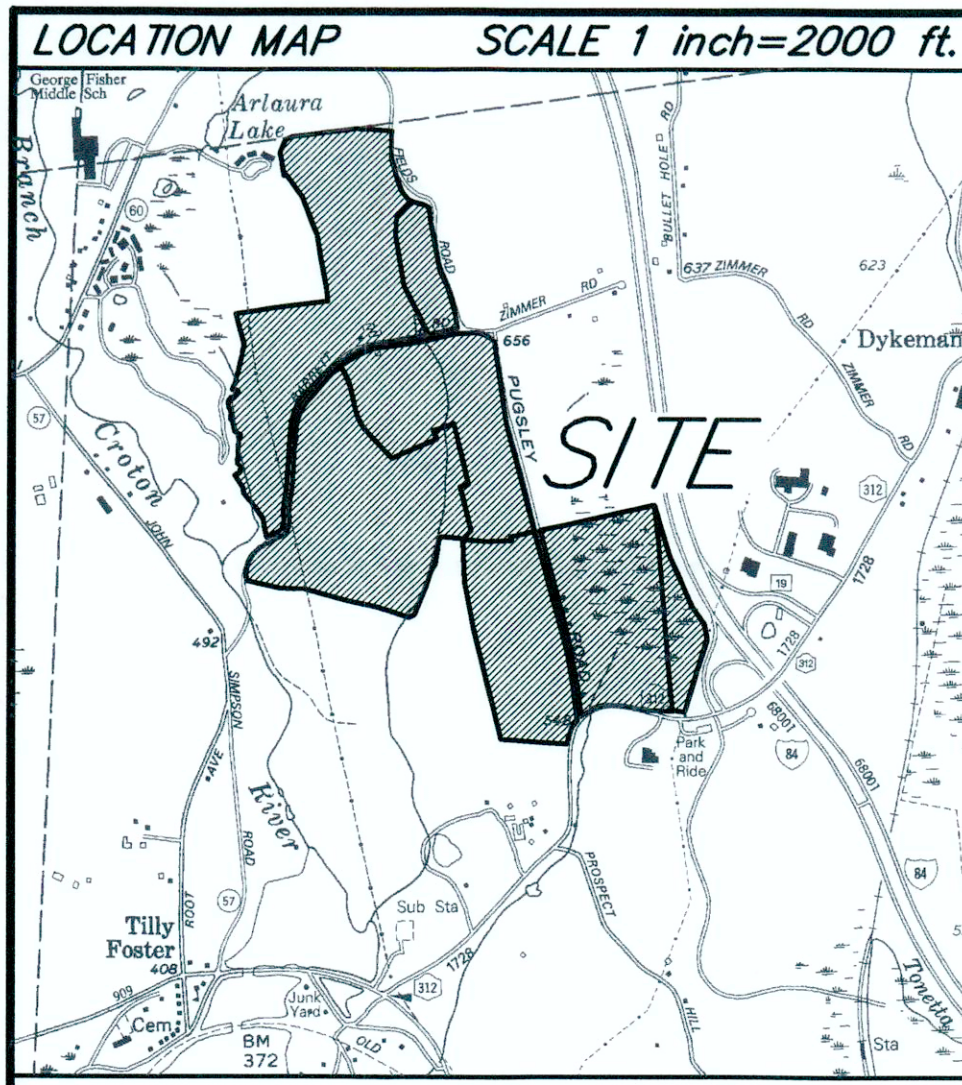
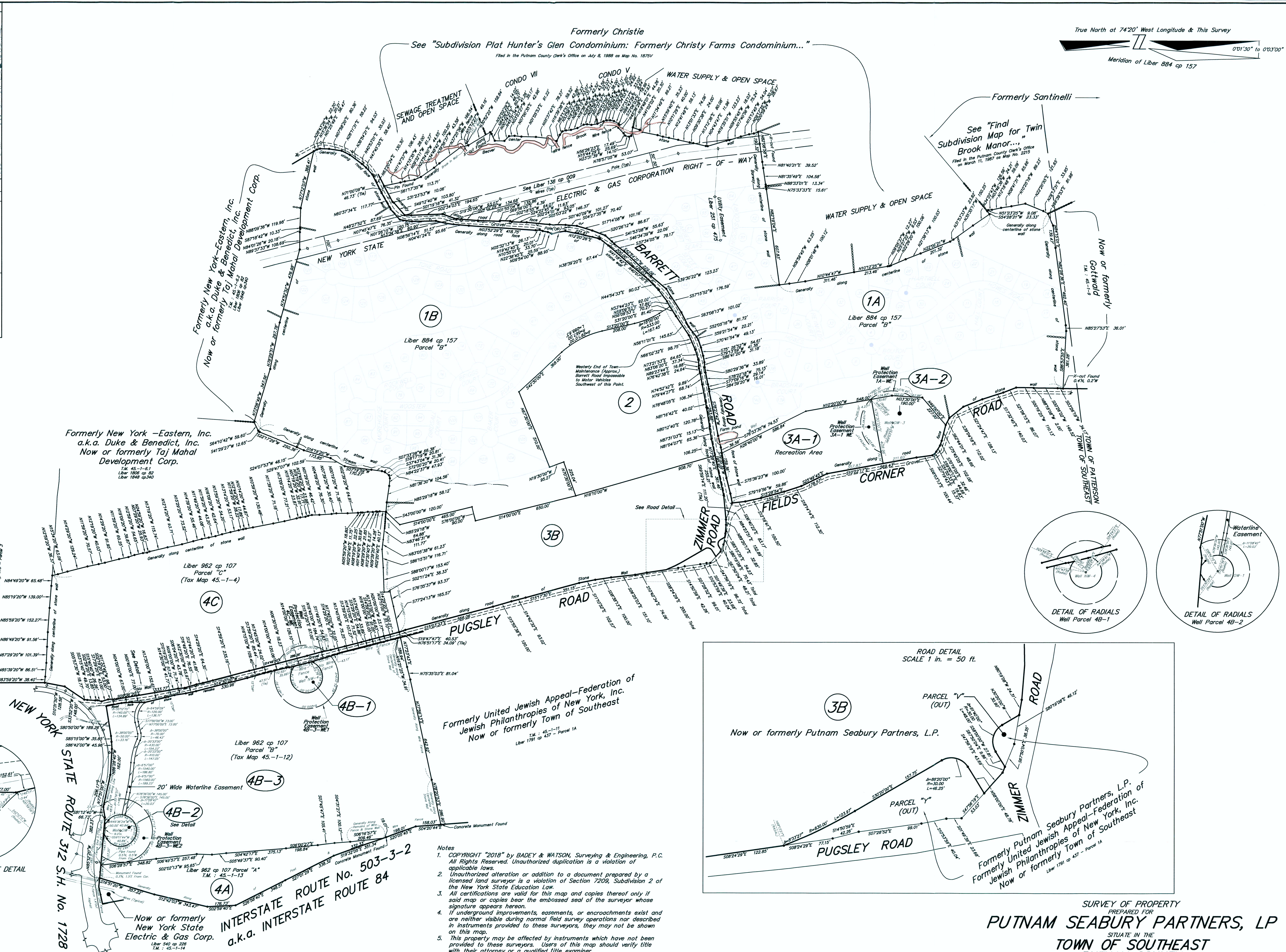


TABLE OF AREAS

LOTS	Sq. Ft.	Acres
1A	3,733,406	85.707
1B	3,386,913	77.753
2	949,049	21.787
3A-1	389,724	8.947
3A-2	148,225	3.403
3B (as revised)	1,268,116	29.112
4A	336,810	7.778
4B-1	30,294	0.695
4B-2	31,914	0.733
4B-3	2,120,467	48.679
4C	1,927,550	44.195
TOTAL	14,224,478	326.549
which includes easements		
1A-WE	6,036	0.139
3A-1-WE	23,080	0.530
Waterline Easement	14,614	0.335
4B-3-WE1	65,974	1.515
4B-3-WE2	71,817	1.649
4C-WE	15,480	0.355

LEGEND

OMP	CORRUGATED METAL PIPE
OPP	CORRUGATED PLASTIC PIPE



Notes

1. COPYRIGHT "2018" by BADEY & WATSON, Surveying & Engineering, P.C. All Rights Reserved. Unauthorized duplication is a violation of applicable laws.
2. Unauthorized alteration or addition to a document prepared by a licensed land surveyor is a violation of Section 7209, Subdivision 2 of the New York State Education Law.
3. All certifications are void for this map and copies thereof only if said map or copies bear the embossed seal of the surveyor whose signature appears hereon.
4. If underground improvements, easements, or encroachments exist and are neither visible during normal field survey operations nor described in instruments provided to these surveyors, they may not be shown on this map.
5. This property may be affected by instruments which have not been provided to these surveyors. Users of this map should verify title with their attorney or a qualified title examiner.
6. The premises hereon are Lots 1A, 1B, 2, 3A-1, 3A-2, a portion of 3B, 4A, 4B-1, 4B-2, 4B-3 and 4C as shown on that certain map entitled "Final Subdivision Plat The Campus At Field Corners..." which was filed in the Putnam County Clerk's office on June 8, 2006 as Map No. 3024.
7. Users are referred to map entitled "Final Subdivision Plat of Lot 1A & Lot 1B The Campus At Field Corners..." filed in the Putnam County Clerk's Office on June 8, 2006 as Map No. 3024A through F, inclusive. Said map reflects a subsequent subdivision of Lot 1A and Lot 1B hereon.
8. Parcels V and Y hereon, originally part of the lands of Putnam Seabury Partners, LP, were conveyed to the United Jewish Appeal by deed in Liber 1747 of deeds at page 357 (2006).
9. Previous development approvals for this site included plans for the realignment of Pugsley Road, Zimmer Road, Fields Corner Road and Barrett Road. To date, conveyance documents effecting this realignment were not recorded in the Putnam County Clerk's Office. Subsequently, said realignment is not shown hereon.
10. Revised August 20, 2018 by adding internal lot lines as shown on Filed Map No. 3024A through F, inclusive. Survey was not brought to date.

SURVEY OF PROPERTY
PREPARED FOR
PUTNAM SEABURY PARTNERS, LP
SITUATE IN THE
**TOWN OF SOUTHEAST
PUTNAM COUNTY
NEW YORK**

SCALE 1 in. = 200 ft. JANUARY 24, 2018

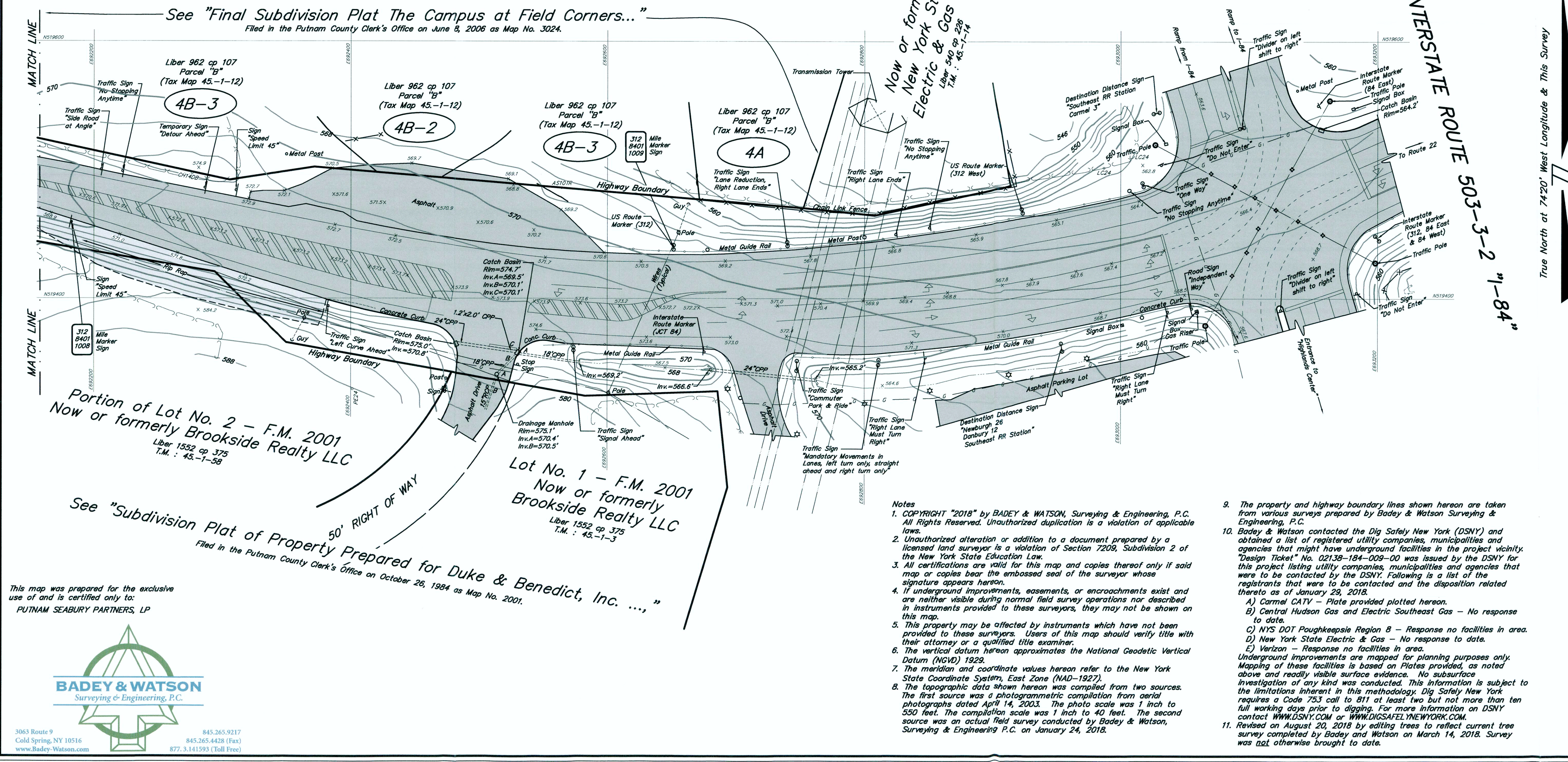
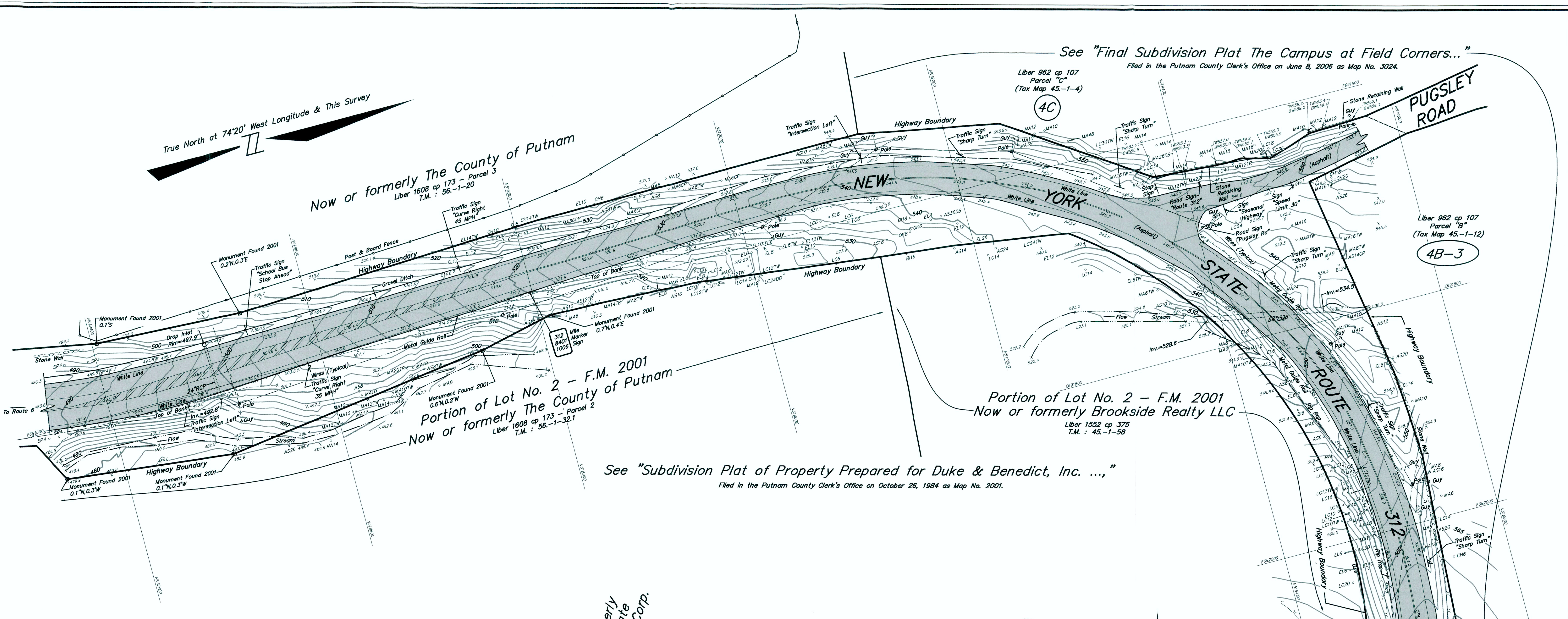
We hereby certify that the survey shown hereon was completed by us on January 24, 2018, that this map was completed on February 5, 2018 and that this survey has been prepared in accordance with the existing Code of Practice for Land Surveys adopted by The New York State Association of Professional Land Surveyors, Inc. Revised August 20, 2018. See Note 10.

BADEY & WATSON
Surveying & Engineering, P.C.
by *[Signature]*
NEW YORK STATE LICENSED LAND SURVEYOR
LICENSE No. 49789

PRINTED
AUG 20 2018
BADEY & WATSON
Surveying & Engineering, P.C.

LEGEND

— SLO — CONTOUR LINE
 CMP CORRUGATED METAL PIPE
 CPP CORRUGATED PLASTIC PIPE
 GUY GUY
 P POLE
 ROP REINFORCED CONCRETE PIPE
 S(SMALL) SIGN (SMALL)
 SE SPOT ELEVATION
 T & B TOP & BOTTOM OF WALL
SUBTERRANEAN
 — G — GAS LINE (STRIPED IN FIELD)
 — T — TELEPHONE LINE (PLATE PROVIDED)
TREE LEGEND
 OK14TW
 — TW — TW (THIN)
 — CALIPER (14" = 14")
 — SPECIES (OK = OAK)
 — TREE LOCATION
KEY
SPECIES
 AS ASH
 B BIRCH
 CH CHERRY
 EL ELM
 LC LOCUST
 MA MAPLE
 OK OAK
 PE PINE
 SP SPRUCE
 W WILLOW
ATTRIBUTES
 C CLUMP
 DB DOUBLE
 QU QUADRUPLE
 TR TRIPLE
 TW THIN
 *DOUBLE TREES ARE THOSE WHERE THE TRUNK SPLITS AT 4.5 FEET OR MORE; OTHER TREES ARE THOSE WHERE THE TRUNK SPLITS BELOW 4.5 FEET



TOPOGRAPHIC SURVEY
 PREPARED FOR
PUTNAM SEABURY PARTNERS, LP
 SITUATE IN THE
TOWN OF SOUTHEAST
PUTNAM COUNTY
NEW YORK

SCALE 1 in. = 40 ft. JANUARY 24, 2018
 GRAPHIC SCALE

We hereby certify that the survey shown hereon was completed by us on January 24, 2018 and that this map was completed on January 29, 2018.
 Revised on August 29, 2018 by editing trees to reflect current tree survey completed by Bodey & Watson on March 14, 2018. Survey was not otherwise brought to date.

BADEY & WATSON
 Surveying & Engineering, P.C.
 NEW YORK STATE LICENSED LAND SURVEYOR
 LICENSE No. 49789

PRINTED
 AUG 20 2018

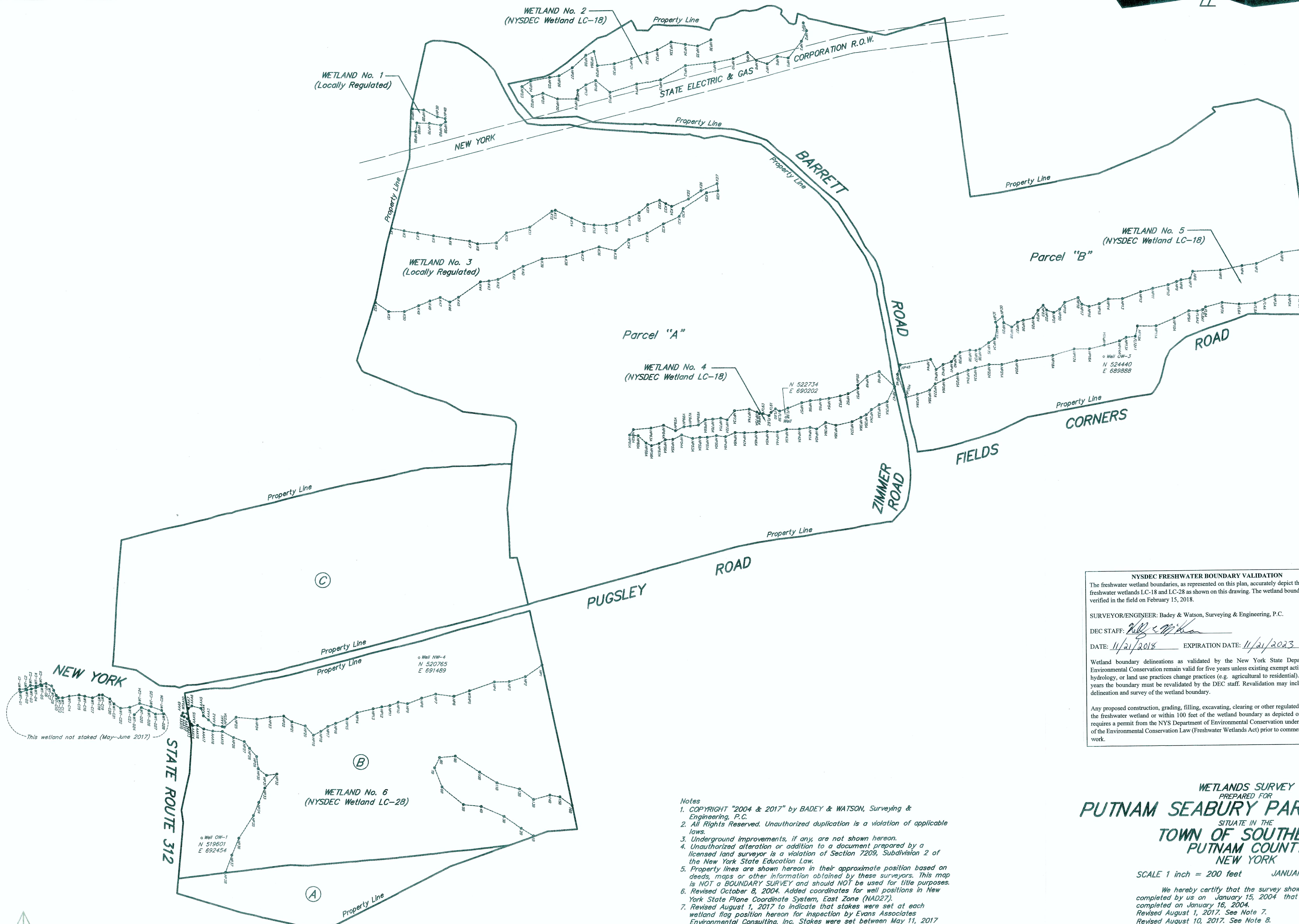
Drawing Name: TP23709_R02_M04 Layout: TOPO W.O. No. 23709 Checked by SPM Spell checked by NTK Drawn by NTK T.M. : ROAD

WETLANDS LEGEND

Flag
Wetland Boundary
Flag No.

Wetland boundary flags as set or inspected by Evans Associates Environmental Consulting, Inc. as of December 19, 2004, and located by Bodey & Watson as of January 15, 2004. Remarkd by Bodey & Watson May-June 2017.

TRUE NORTH AT 74°20' WEST LONGITUDE



NYSDEC FRESHWATER BOUNDARY VALIDATION

The freshwater wetland boundaries, as represented on this plan, accurately depict the limits of freshwater wetlands LC-18 and LC-28 as shown on this drawing. The wetland boundaries were verified in the field on February 15, 2018.

SURVEYOR/ENGINEER: Bodey & Watson, Surveying & Engineering, P.C.

DEC STAFF: *[Signature]*

DATE: 11/21/2018 EXPIRATION DATE: 11/21/2023

Wetland boundary delineations as validated by the New York State Department of Environmental Conservation remain valid for five years unless existing exempt activities, area hydrology, or land use practices change practices (e.g. agricultural to residential). After five years the boundary must be revalidated by the DEC staff. Revalidation may include a new delineation and survey of the wetland boundary.

Any proposed construction, grading, filling, excavating, clearing or other regulated activity in the freshwater wetland or within 100 feet of the wetland boundary as depicted on this plan requires a permit from the NYS Department of Environmental Conservation under Article 24 of the Environmental Conservation Law (Freshwater Wetlands Act) prior to commencement of work.

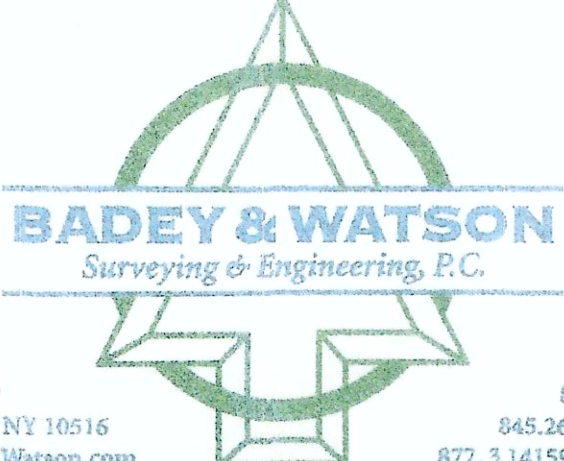
- Notes
1. COPYRIGHT "2004 & 2017" by BADEY & WATSON, Surveying & Engineering, P.C.
 2. All Rights Reserved. Unauthorized duplication is a violation of applicable laws.
 3. Underground improvements, if any, are not shown hereon.
 4. Unauthorized alteration or addition to a document prepared by a licensed land surveyor is a violation of Section 7209, Subdivision 2 of the New York State Education Law.
 5. Property lines are shown hereon in their approximate position based on deeds, maps or other information obtained by these surveyors. This map is NOT a BOUNDARY SURVEY and should NOT be used for title purposes.
 6. Revised October 8, 2004. Added coordinates for well positions in New York State Plane Coordinate System, East Zone (NAD27).
 7. Revised August 1, 2017 to indicate that stakes were set at each wetland flag position hereon for inspection by Evans Associates Environmental Consulting, Inc. Stakes were set between May 11, 2017 and June 23, 2017.
 8. Revised August 10, 2017. Revised wetland labels. Survey not brought to date.

WETLANDS SURVEY
PREPARED FOR
PUTNAM SEABURY PARTNERS, L.P.

SITUATE IN THE
TOWN OF SOUTHEAST
PUTNAM COUNTY
NEW YORK

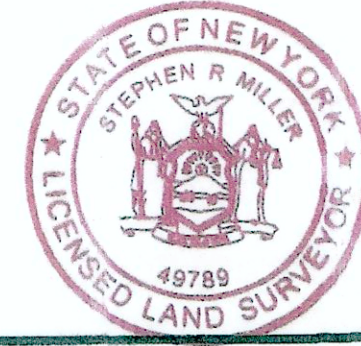
SCALE 1 inch = 200 feet JANUARY 15, 2004

We hereby certify that the survey shown hereon was completed by us on January 15, 2004 that this map was completed on January 15, 2004.
Revised August 1, 2017. See Note 7.
Revised August 10, 2017. See Note 8.



3063 Route 9
Cold Spring, NY 10516
www.Bodey-Watson.com

845.265.9217
845.265.4428 (Fax)
877.3.14.5593 (Toll Free)

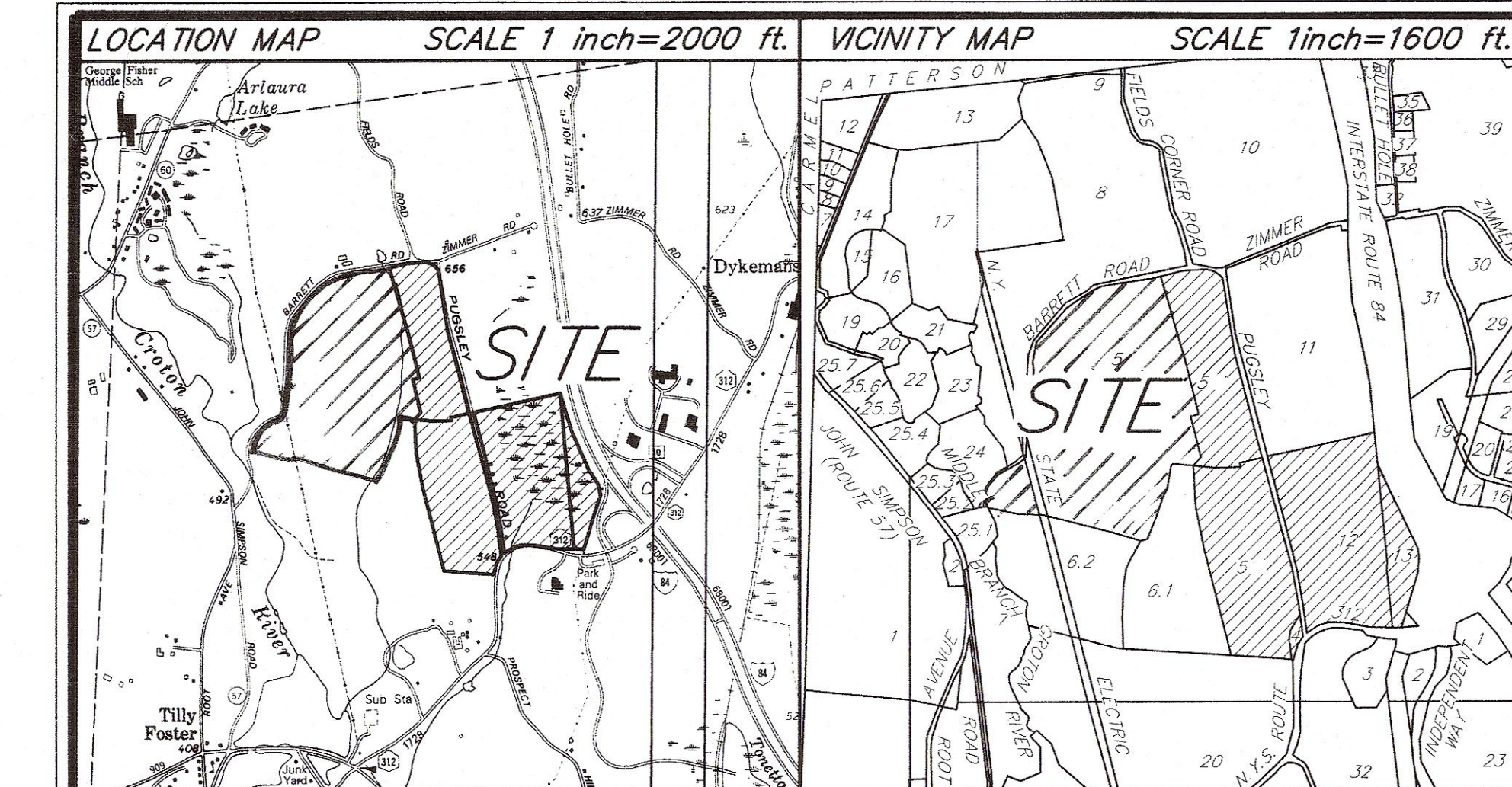


BADEY & WATSON
Surveying & Engineering, P.C.
by *[Signature]*
NEW YORK STATE LICENSED LAND SURVEYOR
LICENSE No. 49789

PRINTED

AUG 10 2017

BADEY & WATSON
Surveying & Engineering, P.C.



ZONING REQUIREMENTS

DISTRICT	Minimum Lot Size	Minimum Yards	Maximum Coverage	Open Space Requirements (% of lot)	Maximum Height	Parking Setback
	Front (feet)	Side (feet)	Depth (feet)	Front (feet)	Side (feet)	Front (feet)
OFFICE PARK OP-3 DISTRICT (OP-3)	100	400	400	100	50	50
RURAL COMMERCIAL DISTRICT (RC)	200	400	400	100	100	100

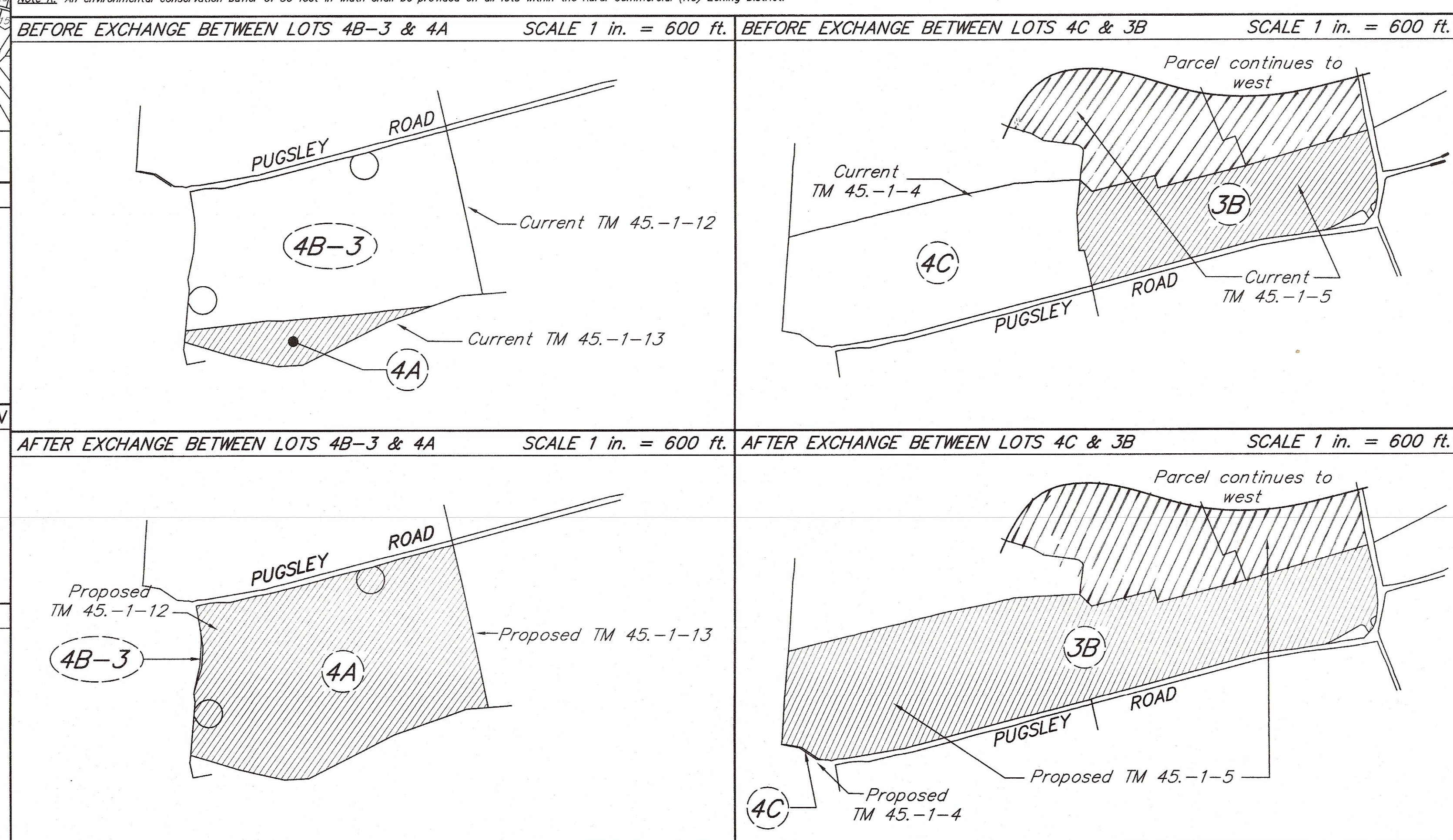


TABLE OF AREAS

EXCHANGE BETWEEN LOTS 4B-3 & 4A	BEFORE ADJUSTMENT	EXCHANGE	AFTER AGREEMENT
Tax Map No. 45-1-12 (LOT 4B-3)	2,182,677 sq. ft. 50.107 acres	-2,178,502 sq. ft. -50.011 acres	4,175 sq. ft. 0.096 acres
Tax Map No. 45-1-13 (LOT 4A)	338,810 sq. ft. 7.778 acres	+2,178,502 sq. ft. +50.011 acres	2,517,312 sq. ft. 57.789 acres
TOTAL	2,521,487 sq. ft. 57.885 acres	0.000 sq. ft. 0.000 acres	2,521,487 sq. ft. 57.885 acres

PLANNING BOARD APPROVAL

Approved by resolution of the Planning Board of the Town of Southeast, Putnam County, N.Y., on the day of April, 2021.

Signed this 15 day of April, 2021.

by Chairman, Southeast Planning Board

This Plat valid for filing until 06/14/2021 (Date)

E911 COORDINATOR APPROVAL

I, Laurie Bell, E911 Coordinator for the Town of Southeast, do hereby certify that the house numbers listed hereon and recorded on the Final Plat are approved by this office in accordance with the Town of Southeast Zoning Law #2, Article IX, Paragraph 13B-3a.

Signed Laurie Bell E911 Coordinator Date 4-20-21

TOWN OF SOUTHEAST ZONING CERTIFICATION

This is to certify that all lots and parcels shown on this plat comply with the requirements of the Zoning Ordinance of the Town of Southeast, Putnam County, New York, and all variances granted therefrom by the Southeast Zoning Board of Appeals.

Signed Laurie Bell E911 Coordinator Date 4-20-21

REAL PROPERTY TAX CERTIFICATION

To Real Property Tax Department

Please certify that the following Tax Map No(s), 45-1-4, 45-1-5, 45-1-12 and 45-1-13 in the Town of Southeast is/are the correct Tax Map Number(s) for this subdivision.

Signed: Director of Real Property Taxes

PUTNAM COUNTY DEPARTMENT OF HEALTH

"NON-JURISDICTIONAL" APPROVAL STATEMENT

This is to certify that the division of land as represented on this map does not fall within the definition of subdivision as specified in Section 1115 of the Public Health Law, and Section 1117 of the Public Health Law, and therefore, is not applicable. This map is in no way explicit or implied, convey the approval of the Putnam County Department of Health. Approval of this plat is required, but all other provisions of the Putnam County Sanitary Code apply.

BY: Environmental Health Services PLS 4/15/21

COMMISSIONER OF FINANCE CERTIFICATION

Putnam County Commissioner of Finance's Office Carmel, New York

The Commissioner of Finance hereby certifies that all Town, County and Village Real Property Taxes forwarded to this office for collection as of 4-1-21 have been paid for the parcel or parcels described as: Tax Map No(s), 45-1-4, 45-1-5, 45-1-12 and 45-1-13.

Signed: Commissioner of Finance

TOWN OF SOUTHEAST STANDARD NOTES

- All proposed driveways must be paved from the edge of the street pavement back to the right-of-way line or to the high point of the driveway, whichever is the greater distance.
- No rating, foundation, basement, yard, area or curtain drains of any kind shall discharge upgradient of or into a town street or a street proposed to be dedicated to the town at a future date. Any such drains located upgradient of an existing or future town street shall be connected into the storm drainage system in the street, unless otherwise permitted by the Superintendent of Highways. The location and connection of any such drain into the storm drainage system in the street shall be approved and inspected by the Superintendent of Highways.
- The subdivision has irrevocably offered to the Town of Southeast of the land areas designated for streets, street widening and parks and any other lands noted on this plat for dedication to the town, including, without limitation, all lights, light poles, storm and sanitary sewers, signs, water mains, fire hydrants, retention and detention basins and any other improvements thereon. Approval of this final plat does not constitute acceptance by the town of the offer of dedication.
- Failure to record the drainage and R.O.W. easements as set forth on this plat will void approval of this plat.
- The improvements shown on this plat shall be substantially completed on or before the day of April, 2021, and shall be fully completed on or before the day of April, 2021.

NOTES

Notes

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- Unauthorized alteration or addition to a document prepared by a licensed land surveyor is a violation of Section 7209, Subdivision 2 of the New York State Education Law.
- All certifications are valid for this map and copies thereof only if said map or copies bear the embossed seal of the surveyor whose signature appears hereon.
- If underground improvements, easements, or encroachments exist and are neither visible during normal field survey operations nor described in instruments provided to these surveyors, they may not be shown on this map.
- This property may be affected by instruments which have not been provided to these surveyors. Users of this map should verify title with their attorney or a qualified title examiner.
- The premises hereon are Lots 3B, 4A, 4B and 4C as shown on that certain map entitled "Final Subdivision Plat, The Campus At Field Corners," which was filed in the Putnam County Clerk's office on June 8, 2006 as Map No. 3024.
- Users are referred to map entitled "Final Subdivision Plat of Lot 14 & Lot 18 The Campus at Field Corners," filed in the Putnam County Clerk's Office on June 8, 2006 as Map No. 3024A. Said map reflects a subsequent subdivision of Lot 14 and Lot 18 hereon.
- Parcels V and Y hereon, originally part of the lands of Putnam Seabury Partners, L.P., were conveyed to the United Jewish Appeal by deed in Liber 1747 of deeds at page 357 (2006).
- Previous development approvals for this site included plans for the realignment of Pugsley Road, Zimmer Road, Fields Corner Road and Barrett Road. To date, conveyance documents affecting this realignment were not recorded in the Putnam County Clerk's Office. Subsequently, said realignment is not shown hereon.

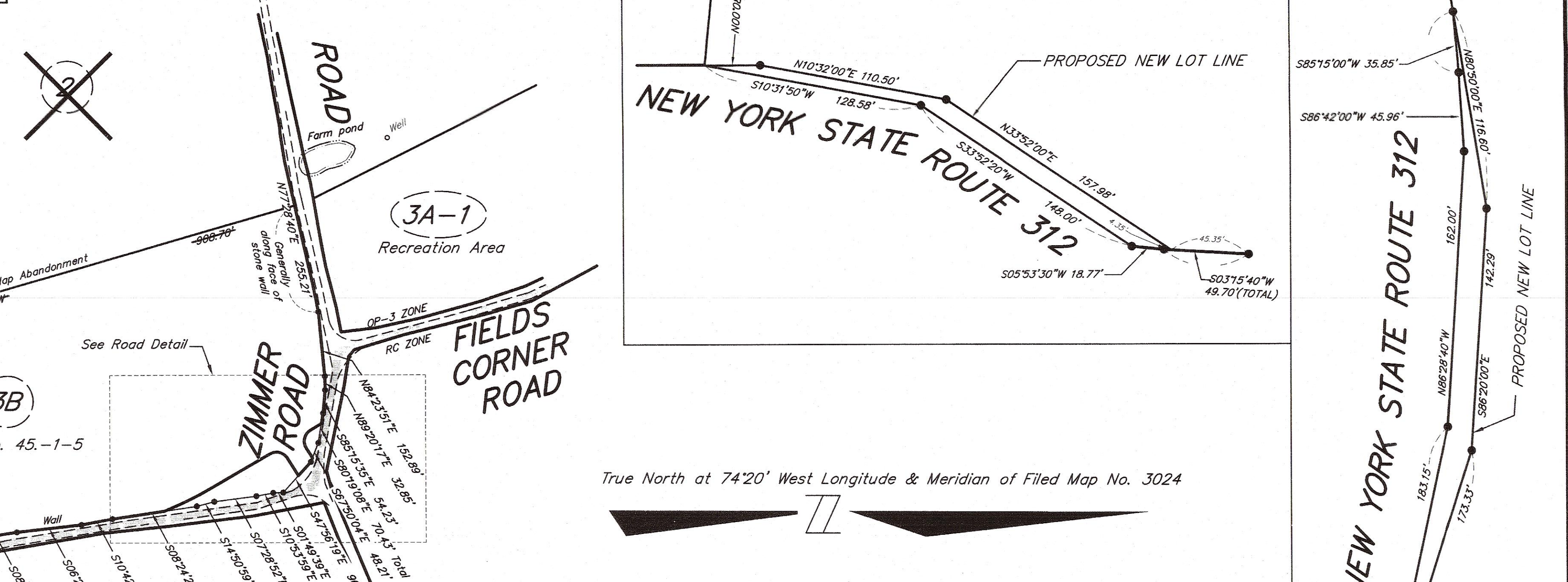
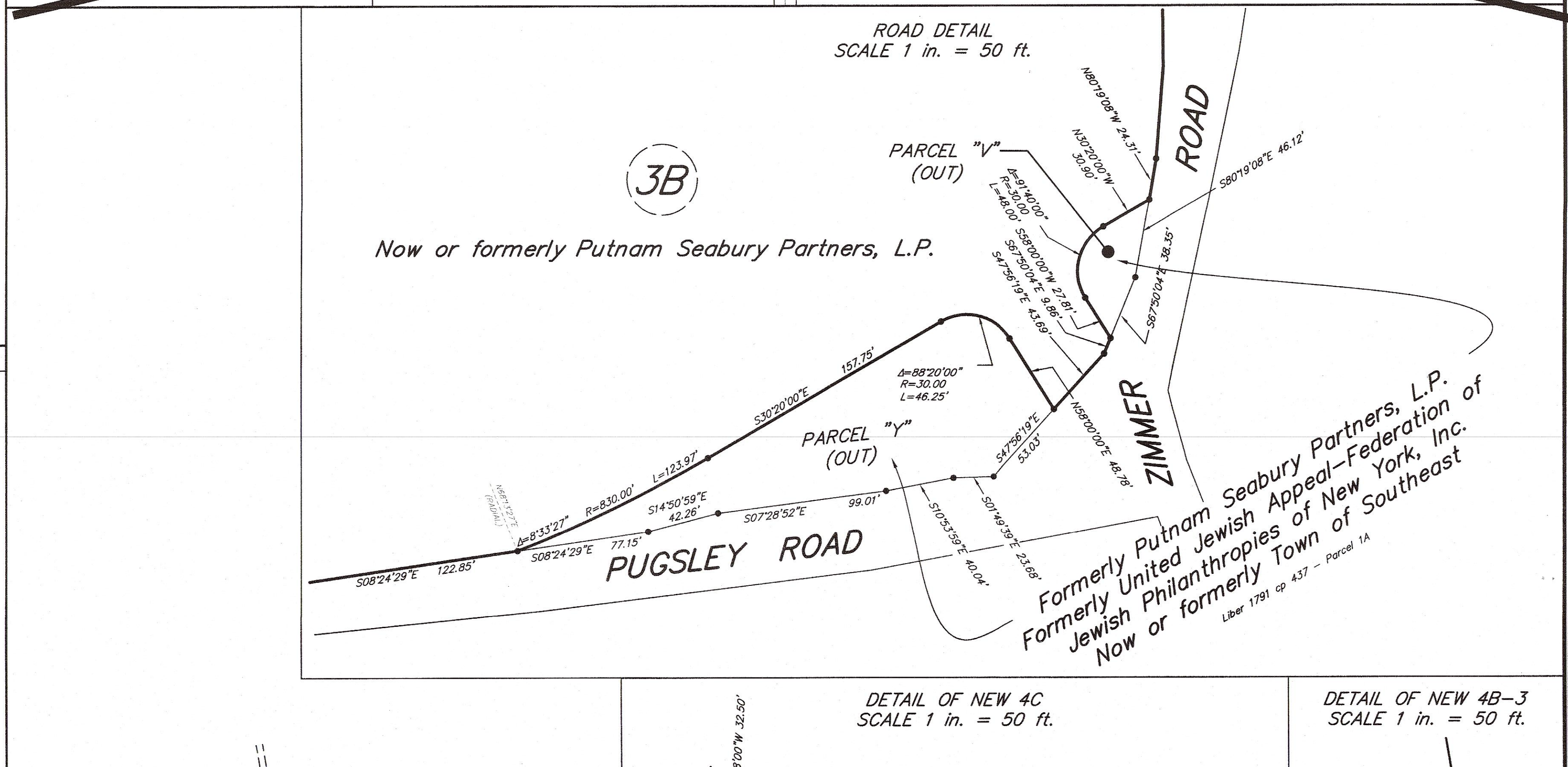
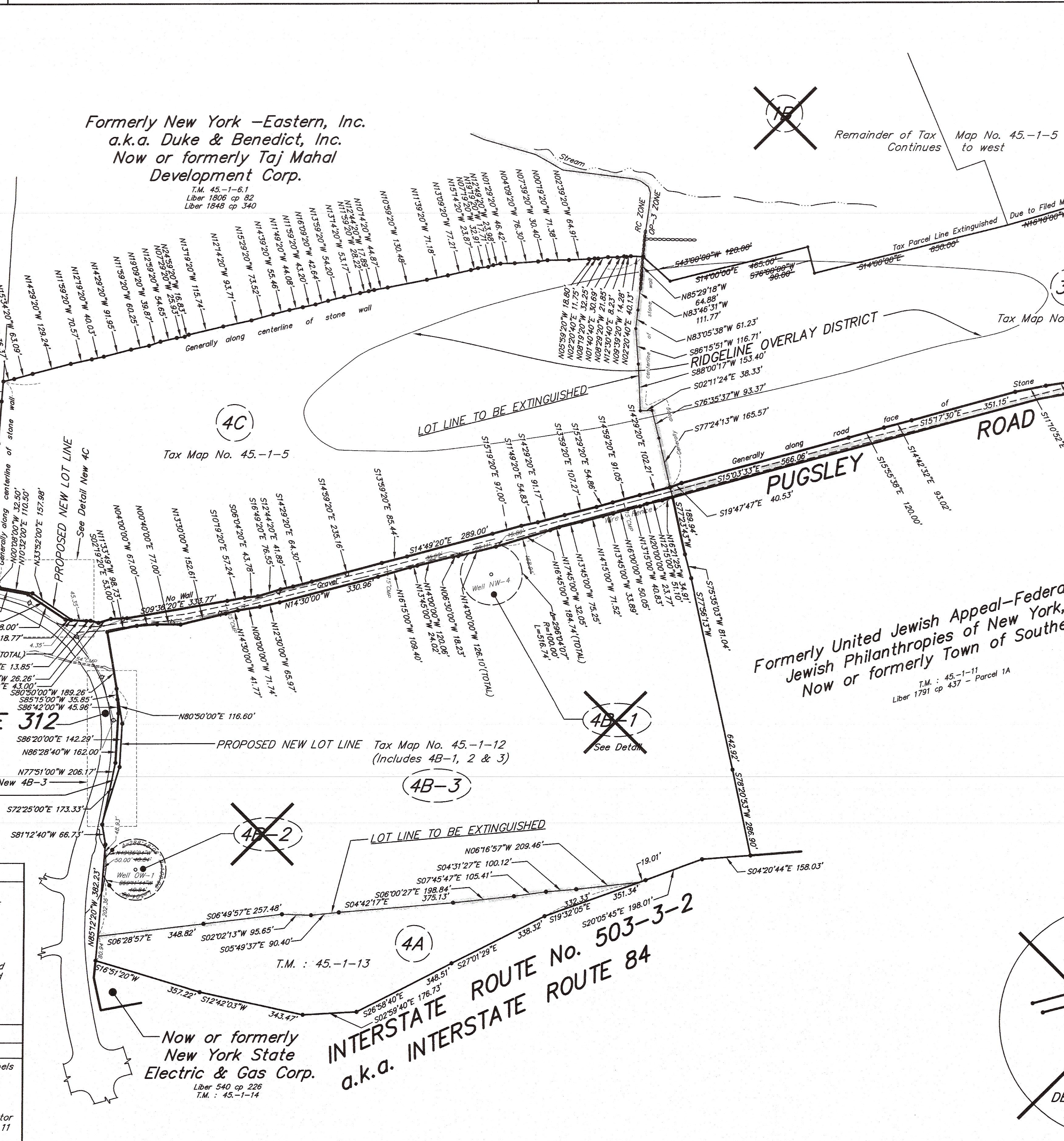


TABLE OF AREAS & ADDRESSES

EXCHANGE BETWEEN TAX MAP 45-1-12 & 45-1-13	BEFORE ADJUSTMENT	EXCHANGE	AFTER ADJUSTMENT
Tax Map No. 45-1-12 (LOT 4B-3)	2,182,677 sq. ft. 50.107 acres	-2,178,502 sq. ft. -50.011 acres	4,175 sq. ft. 0.096 acres
Tax Map No. 45-1-13 (LOT 4A)	338,810 sq. ft. 7.778 acres	+2,178,502 sq. ft. +50.011 acres	2,517,312 sq. ft. 57.789 acres
TOTAL	2,521,487 sq. ft. 57.885 acres	0.000 sq. ft. 0.000 acres	2,521,487 sq. ft. 57.885 acres

MINOR SUBDIVISION & LOT LINE ADJUSTMENT PLAT

COMMERCIAL CAMPUS

AT

FIELDS CORNER

SITUATE IN THE

TOWN OF SOUTHEAST

PUTNAM COUNTY

NEW YORK

SCALE 1 in. = 200 ft. MAY 18, 2018

We hereby certify that the survey shown hereon was completed by us on January 24, 2018, that this map was completed on May 18, 2018, and that this survey has been prepared in accordance with the existing Code of Practice for Land Surveys adopted by The New York State Association of Professional Land Surveyors, Inc. See Revision Box for most recent release.

by BADEY & WATSON Surveying & Engineering, P.C.

NEW YORK STATE LICENSED LAND SURVEYOR LICENSE No. 49789

SURVEYED & PREPARED BY

BADEY & WATSON Surveying & Engineering, P.C.

3963 Route 9 Cold Spring, NY 10516 www.Badey-Watson.com

845.265.9317 845.265.4428 (Fax) 877.3.141.5931 (Toll Free)

REVISIONS

Date	Revision	Description
May 18, 2018	R01	Original Drawing.
June 18, 2018	R02	Corrected tax parcel designation, added ROW lines on opposite side of road
January 4, 2021	R03	Added Tax Parcel 45-1-12 and Tax Parcel 45-1-13. Revised Proposed New Lot Line to show Proposed Dedication Parcels "V" and "Y". Updated area chart and related notes.
February 1, 2021	R04	Remove water easements and related data.
February 4, 2021	R05	Revise Table of Areas.

NOTES (Con't)

Notes

- The purpose of this plat is to show the adjustment of tax parcel lines and associated areas. No new lots are being created and no improvements are proposed.
- The current configuration of the tax parcels hereon, including tax parcels 45-1-5, reflects the abandonment of Filed Map Nos. 3024 through 3024N, inclusive.
- Let numbers hereon are for information only and do not represent lots as designated on any current filed map. The parcels hereon are designated by the associated tax parcel numbers.

REVISIONS (Con't)

Date	Revision	Description
April 26, 2021	R06	Revised tax map parcels and labels due to abandonment of filed map; marked out data no longer relevant to lot line adjustment; added new table of areas and addresses; revised E911 coordinator approved block; added Notes 10, 11 and 12.

OWNER APPROVAL

The undersigned, owner of the property hereon, states that he or she is familiar with this map, its contents and its legends and hereby consents to the filing of this map.

Signed this 2 day of March, 2021.

by Putnam Seabury Partners, LP

PUTNAM SEABURY PARTNERS, LP

PROPERTY DATA

Tax Map Designation: 45-1-4, 45-1-5, 45-1-12 and 45-1-13

Zoning District: Rural Commercial District (RC)

Office Park OP-3 District (OP-3)

Total Area: 5,677,149 sq. ft. 129.952 acres

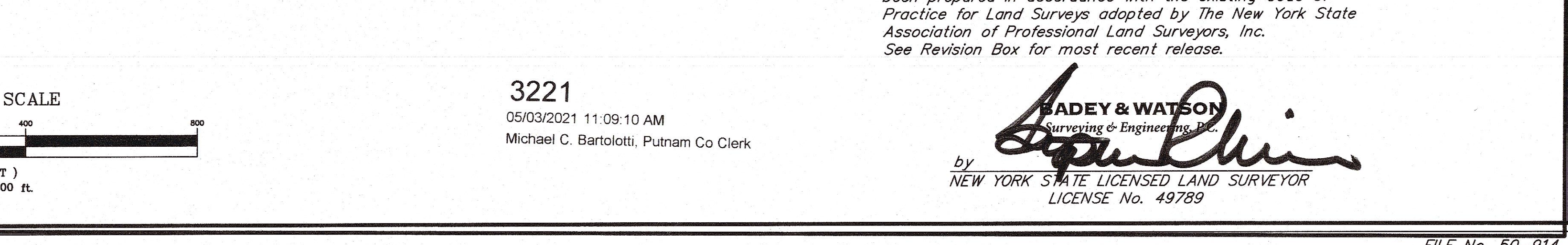
228,492 acres

FILING INFORMATION

ORIGINAL FILED IN THE PUTNAM COUNTY CLERK'S OFFICE

DATE: _____

MAP No. _____



[illegible]