

CONTRACT DRAWINGS FOR THE

LAKE ONTARIO SHORE LINE REPAIR PROJECT BLIND SODUS BAY WESTERN BLUFF LAKE ONTARIO - RESILIENCY & ECONOMIC DEVELOPMENT INITIATIVE (REDI) GRANT NO. WA. 37

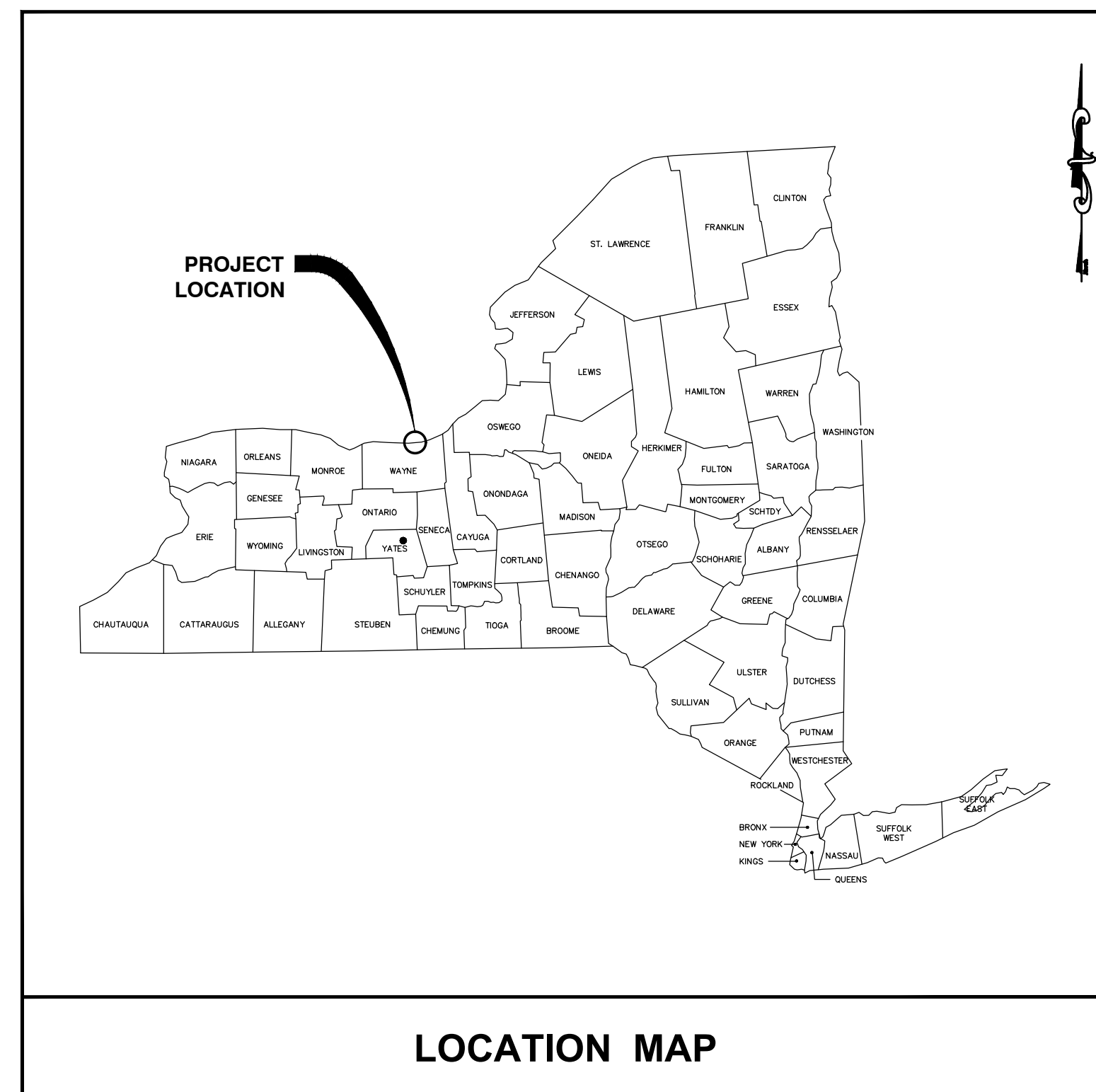
WAYNE COUNTY SOIL &
WATER CONSERVATION
DISTRICT
WAYNE COUNTY
NEW YORK

AS ISSUED FOR CONSTRUCTION

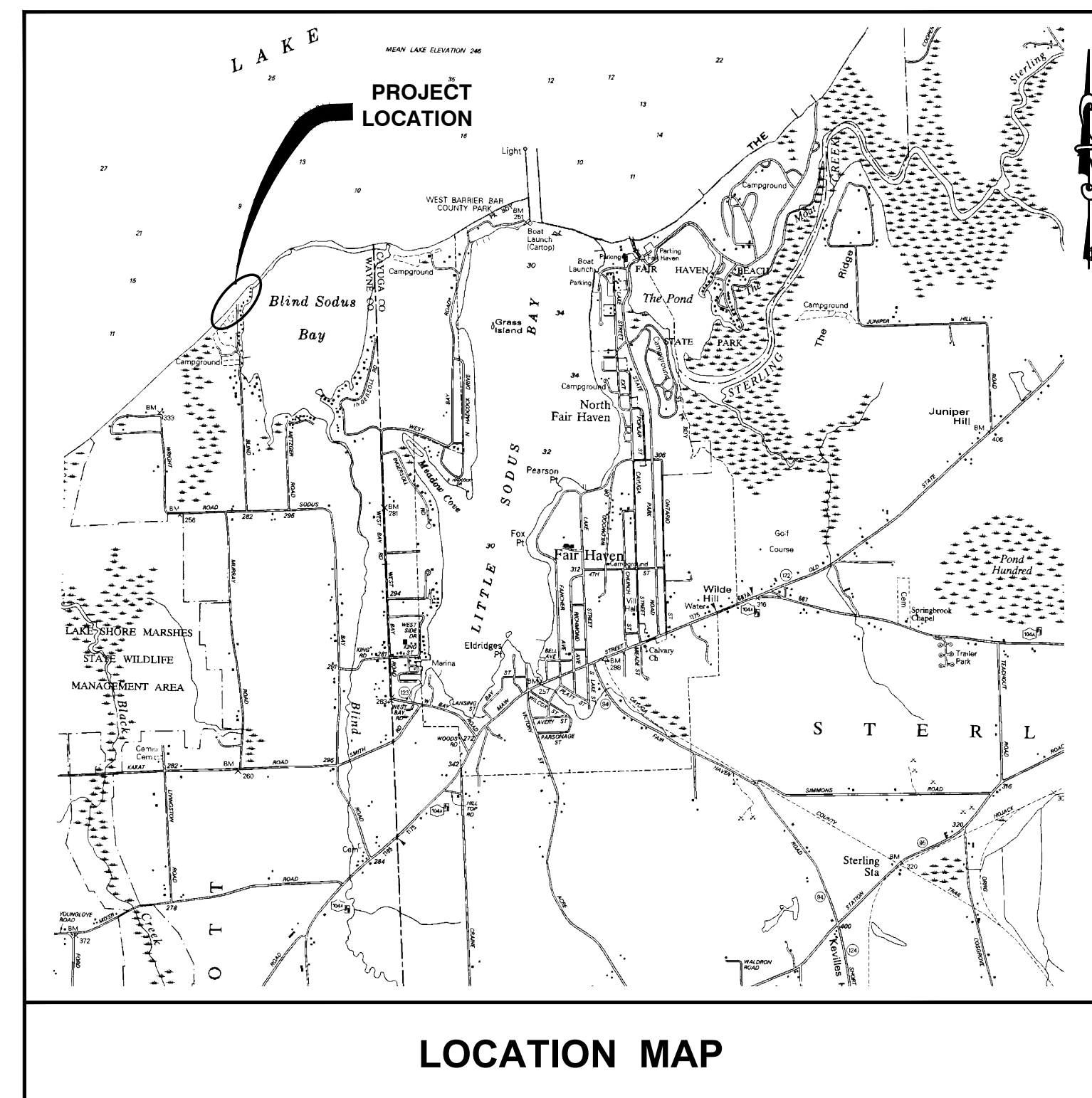
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JUNE 2022



LOCATION MAP



LOCATION MAP

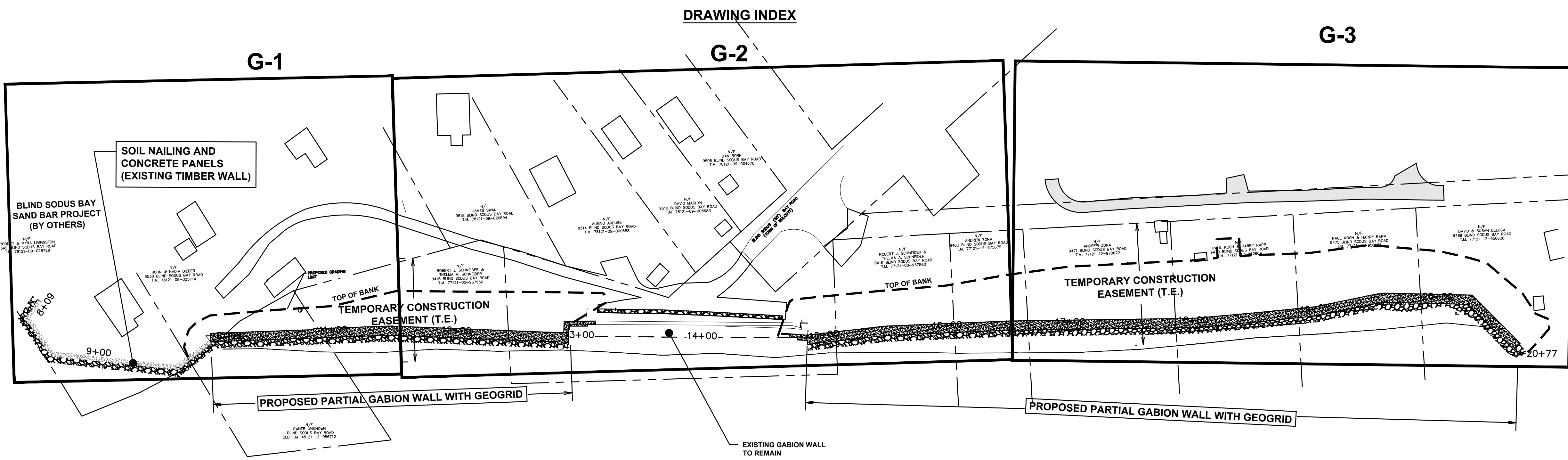
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PROJECT # 2317.20001.000



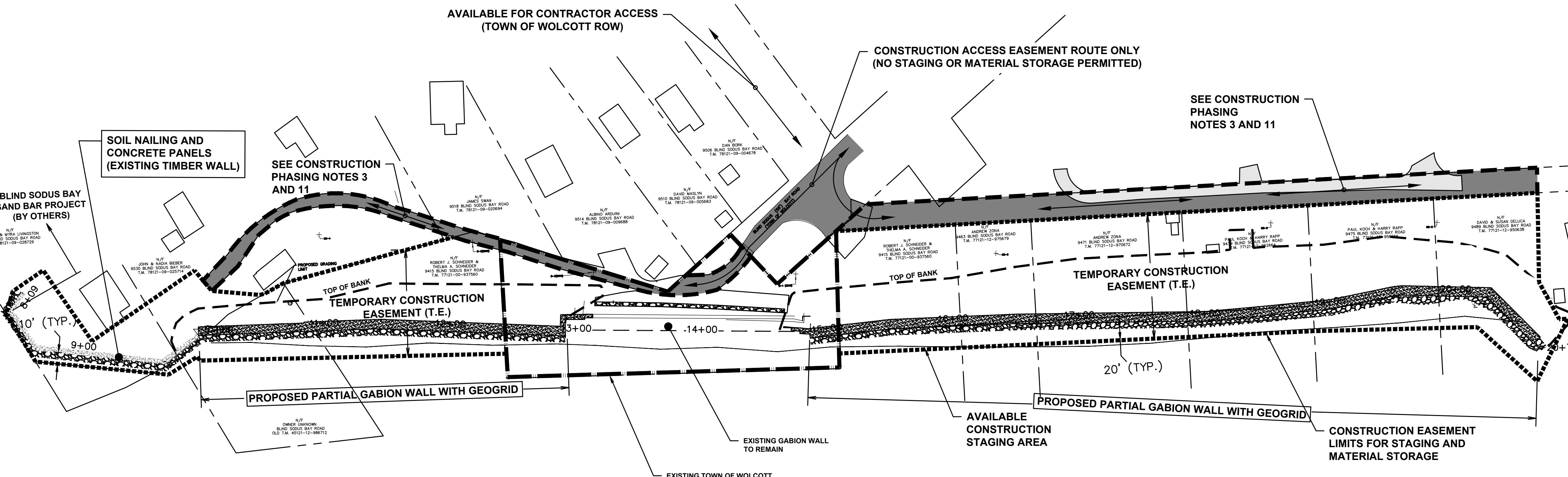
GENERAL NOTES:

- SURVEY AND BASE MAPPING INFORMATION, DATED SEPTEMBER 2020, PROVIDED BY :
 KOCHER SURVEYING, P.C.
 116 WEST MILLER STREET, NEWARK, NY 14513
 PHONE: 315.331.2800
 FAX: 315.331.2445
 WEBSITE: WWW.KOCHERSURVEYING.COM
 REFERENCE DATUM IS NEW YORK STATE PLANE COORDINATE, CENTRAL ZONE, NORTH AMERICAN VERTICAL DATUM 1988 (IGLD 1985)
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, GRADES, QUANTITIES AND FIELD CONDITIONS PRIOR TO BIDDING THE WORK OR ORDERING MATERIALS.
- WORK WILL BE PERFORMED IN ACCORDANCE WITH FEDERAL AND STATE ISSUED PERMITS
- CONSTRUCTION BEST MANAGEMENT PRACTICES (BMP'S): UNLESS SPECIFICALLY APPROVED OTHERWISE THROUGH ISSUANCE OF A VARIANCE BY THE ARMY CORPS OF ENGINEERS DISTRICT ENGINEER, THE FOLLOWING BMP'S MUST BE IMPLEMENTED TO THE MAXIMUM DEGREE PRACTICABLE, TO MINIMIZE EROSION, MIGRATION OF SEDIMENTS, AND ADVERSE ENVIRONMENTAL IMPACTS. NOTE THAT AT A MINIMUM, ALL EROSION AND SEDIMENT CONTROL AND STORM WATER MANAGEMENT PRACTICES MUST BE DESIGNED, INSTALLED AND MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT IN ACCORDANCE WITH THE LATEST VERSION OF THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" AND THE "NEW YORK STATE STORM WATER MANAGEMENT DESIGN MANUAL". THESE DOCUMENTS ARE AVAILABLE AT: [HTTP://WWW.DEC.NY.GOV/CHEMICAL/29066.HTML](http://www.dec.ny.gov/chemical/29066.html) AND [HTTP://WWW.DEC.NY.GOV/CHEMICAL/29072.HTML](http://www.dec.ny.gov/chemical/29072.html), RESPECTIVELY. PRIOR TO THE DISCHARGE OF ANY DREDGED OR FILL MATERIAL INTO WATERS OF THE UNITED STATES, INCLUDING WETLANDS, AUTHORIZED BY NWP, THE PERMITTEE MUST INSTALL AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS IN AND/OR ADJACENT TO WETLANDS OR OTHER WATERS OF THE UNITED STATES.
 - ALL SYNTHETIC EROSION CONTROL FEATURES (E.G., SILT FENCING, NETTING, MATS), WHICH ARE INTENDED FOR TEMPORARY USE DURING CONSTRUCTION, SHALL BE COMPLETELY REMOVED AND PROPERLY DISPOSED OF AFTER THEIR INITIAL PURPOSE HAS BEEN SERVED. ONLY NATURAL FIBER MATERIALS, WHICH WILL DEGRADE OVER TIME, MAY BE ABANDONED IN PLACE.
 - MATERIALS RESULTING FROM TRENCH EXCAVATION FOR UTILITY LINE INSTALLATION OR DITCH RESHAPING ACTIVITIES WHICH ARE TEMPORARILY SIDECAST OR STOCKPILED INTO WATERS OF THE UNITED STATES MUST BE BACKFILLED OR REMOVED TO AN UPLAND AREA WITHIN 30 DAYS OF THE DATE OF DEPOSITION. NOTE: UPLAND OPTIONS SHALL BE UTILIZED PRIOR TO TEMPORARY PLACEMENT WITHIN WATERS OF THE U.S., UNLESS IT CAN BE DEMONSTRATED THAT IT WOULD NOT BE PRACTICABLE OR IF THE IMPACTS OF COMPLYING WITH THIS UPLAND OPTION REQUIREMENT WOULD RESULT IN MORE ADVERSE IMPACTS TO THE AQUATIC ENVIRONMENT.
 - FOR TRENCHING ACTIVITIES IN WETLANDS THE APPLICANT SHALL INSTALL IMPERMEABLE TRENCH DAMS OR TRENCH BREAKERS AT THE WETLAND BOUNDARIES AND EVERY 100 FEET WITHIN WETLAND AREAS TO PREVENT INADVERTENT DRAINAGE OF WETLANDS OR OTHER WATERS OF THE UNITED STATES.
 - DRY STREAM CROSSING METHODS (E.G., DIVERSION, DAM AND PUMP, FLUME, BORE) SHALL BE UTILIZED FOR CULVERT OR OTHER PIPE, OR UTILITY INSTALLATIONS TO REDUCE DOWNSTREAM IMPACTS FROM TURBIDITY AND SEDIMENTATION. THIS MAY REQUIRE PIPING OR PUMPING THE STREAM FLOW AROUND THE WORK AREA AND THE USE OF COFFERDAMS.
 - NO IN-STREAM WORK SHALL OCCUR DURING PERIODS OF HIGH FLOW, EXCEPT FOR WORK THAT OCCURS IN DEWATERED AREAS BEHIND TEMPORARY DIVERSIONS, COFFERDAMS OR CAUSEWAYS.
 - CONSTRUCTION ACCESS AND STAGING AREAS SHALL BE BY MEANS THAT AVOID OR MINIMIZE IMPACTS TO AQUATIC SITES (E.G. USE OF UPLAND AREAS FOR ACCESS & STAGING, FLOATING BARGES, MATS, ETC.). DISCHARGES OF FILL MATERIAL ASSOCIATED WITH THE CONSTRUCTION OF TEMPORARY ACCESS ROADS, STAGING AREAS AND WORK PADS IN WETLANDS SHALL BE PLACED ON FILTER FABRIC. ALL TEMPORARY FILLS SHALL BE REMOVED UPON COMPLETION OF THE WORK AND THE DISTURBED AREA RESTORED TO PRE-CONSTRUCTION CONTOURS, ELEVATIONS AND WETLAND CONDITIONS, INCLUDING COVER TYPE. ALL VEGETATION UTILIZED IN THE RESTORATION ACTIVITY SHALL CONSIST OF NATIVE SPECIES.
 - ALL RETURN FLOW FROM DREDGED MATERIAL DISPOSAL AREAS SHALL NOT RESULT IN AN INCREASE IN TURBIDITY IN THE RECEIVING WATER BODY THAT WILL CAUSE A SUBSTANTIAL VISIBLE CONTRAST TO NATURAL CONDITIONS. (SEE NWP #16)
 - FOR ACTIVITIES INVOLVING THE PLACEMENT OF CONCRETE INTO WATERS OF THE U.S., THE PERMITTEE MUST EMPLOY WATERTIGHT FORMS. THE FORMS SHALL BE DEWATERED PRIOR TO THE PLACEMENT OF THE CONCRETE. THE USE OF TREMIE CONCRETE IS ALLOWED, PROVIDED THAT IT COMPLIES WITH NEW YORK STATE WATER QUALITY STANDARDS.
 - NEW STORMWATER MANAGEMENT FACILITIES SHALL BE LOCATED OUTSIDE OF WATERS OF THE U.S. A VARIANCE OF THIS REQUIREMENT MAY BE REQUESTED WITH THE SUBMISSION OF A PCN. THE PCN MUST INCLUDE JUSTIFICATION WHICH DEMONSTRATES THAT AVOIDANCE AND MINIMIZATION EFFORTS HAVE BEEN MET.
 - TO THE MAXIMUM EXTENT PRACTICABLE, THE PLACEMENT OF FILL IN WETLANDS MUST BE DESIGNED TO MAINTAIN PRE-CONSTRUCTION SURFACE WATER FLOWS/CONDITIONS BETWEEN REMAINING ON OR OFF-SITE WATERS AND TO PREVENT DRAINING OF THE WETLAND OR PERMANENT HYDROLOGIC ALTERATION. THIS MAY REQUIRE THE USE OF CULVERTS AND/OR OTHER MEASURES. FURTHERMORE, THE ACTIVITY MUST NOT RESTRICT OR IMPEDE THE PASSAGE OF NORMAL OR EXPECTED HIGH FLOWS (UNLESS THE PRIMARY PURPOSE OF THE FILL IS TO IMPOUND WATERS). THE ACTIVITY MAY ALTER THE PRE-CONSTRUCTION FLOWS/CONDITIONS IF IT CAN BE SHOWN THAT IT BENEFITS THE AQUATIC ENVIRONMENT (I.E. WETLAND RESTORATION AND/OR ENHANCEMENT).

- NON-CONTAMINATION OF WATERS: ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRECLUDE CONTAMINATION OF ANY WETLAND WATERWAY OR GROUNDWATER BY SUSPENDED SOLIDS, RESINS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, PAINTS, CONCRETE, LEACHATE, INADVERTENT RETURNS OF DRILLING MUDS (FRAC-OUTS) OR ANY OTHER ENVIRONMENTALLY DELETERIOUS MATERIALS ASSOCIATED WITH THE PROJECT.
- ALL INCIDENTAL EXCAVATED SEDIMENTS AND REMOVED TREES/BRUSH SHALL BE DISPOSED UPLAND (NOT IN ANY WATERWAY, WETLAND, ETC.). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL.
- WATER QUALITY CERTIFICATION TO PREVENT THE UNINTENTIONAL INTRODUCTION OR SPREAD OF INVASIVE SPECIES THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION EQUIPMENT BE CLEANED OF MUD, SEEDS, VEGETATION AND OTHER DEBRIS BEFORE ENTERING ANY APPROVED CONSTRUCTION AREA WITHIN WATERS OF THE U.S. WHEN USING CONSTRUCTION EQUIPMENT FOR PROJECTS AUTHORIZED UNDER THIS CERTIFICATION THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT THE SPREAD OF AQUATIC INVASIVE SPECIES REQUIRED UNDER NYS LAW
- TREE REMOVALS (OVER 6" DBH) AND TRIMMING TO ACCOMMODATE CONSTRUCTION WILL ONLY BE PERMITTED WITH PRIOR WAYNE COUNTY SOIL AND WATER CONSERVATION DISTRICT AND PROPERTY OWNER APPROVAL. ALL TREES REMOVED SHALL BE CUT AT GROUND LEVEL AND DEBRIS SUITABLY DISPOSED IN UPLAND AREAS. THE STUMPS AND ROOT SYSTEMS SHALL REMAIN.

Project Title: BLIND SODUS BAY WESTERN BLUFF REDDI PROJECT TOWN OF WOLCOTT, WAYNE COUNTY, NY	
Drawn By: RBP	Checked By: SB
Scale: 1" = 50'	Date: 06/2022
MRB group Engineering, Architecture & Surveying, D.P.C. The Culture Road Annex, 145 Culture Road, Suite 100, Rochester, New York 14620 Phone: 585.381.9250 www.mrbgroup.com	
Sheet No.	N-1
2	25
Project No.	2317.2001
No. Revisions and Descriptions	By Date
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DRAWING ALTERATION
 THE FOLLOWING IS AN EXCERPT FROM THE NEW YORK EDUCATION 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 DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



CONSTRUCTION PHASING NOTES:

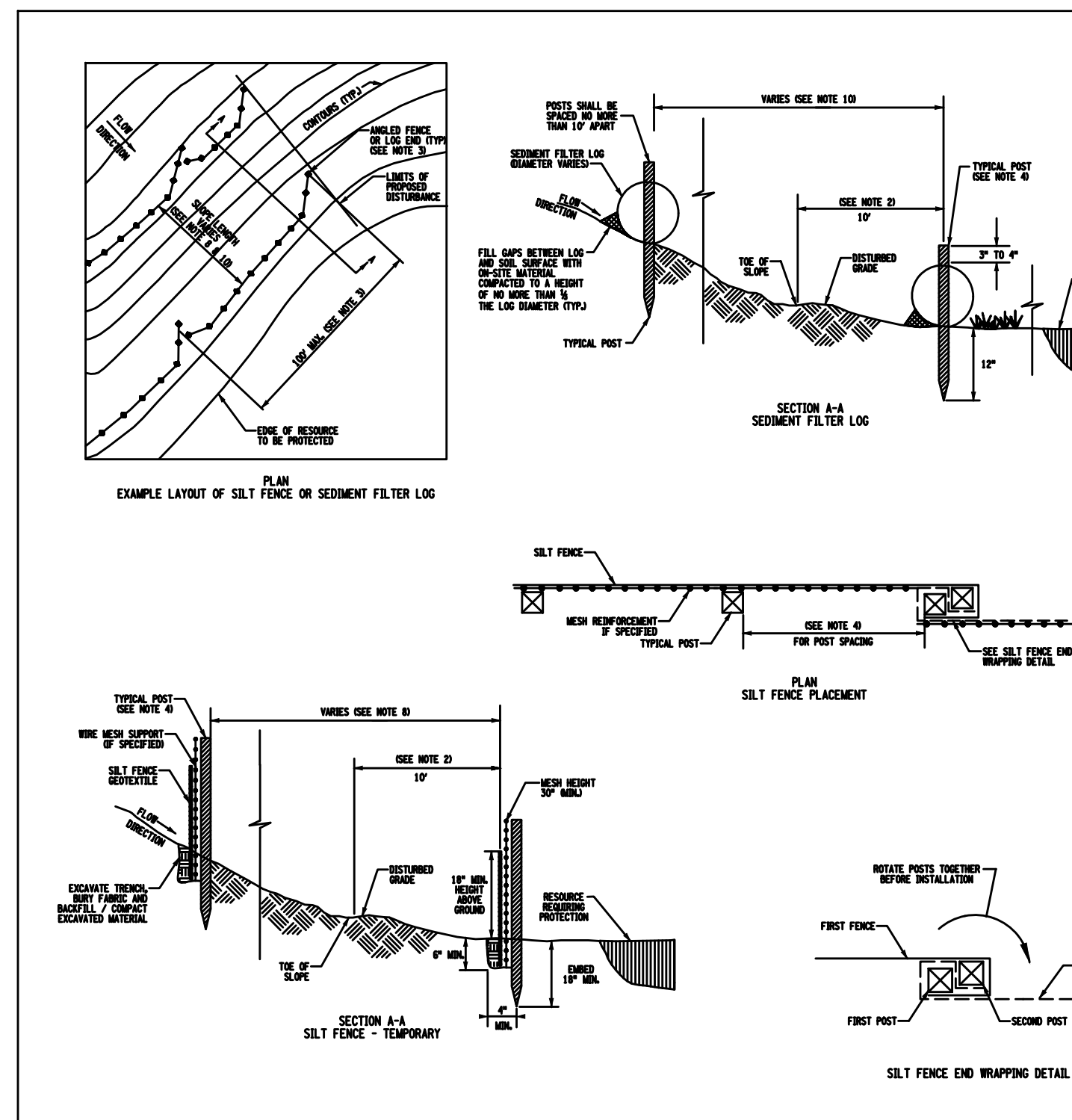
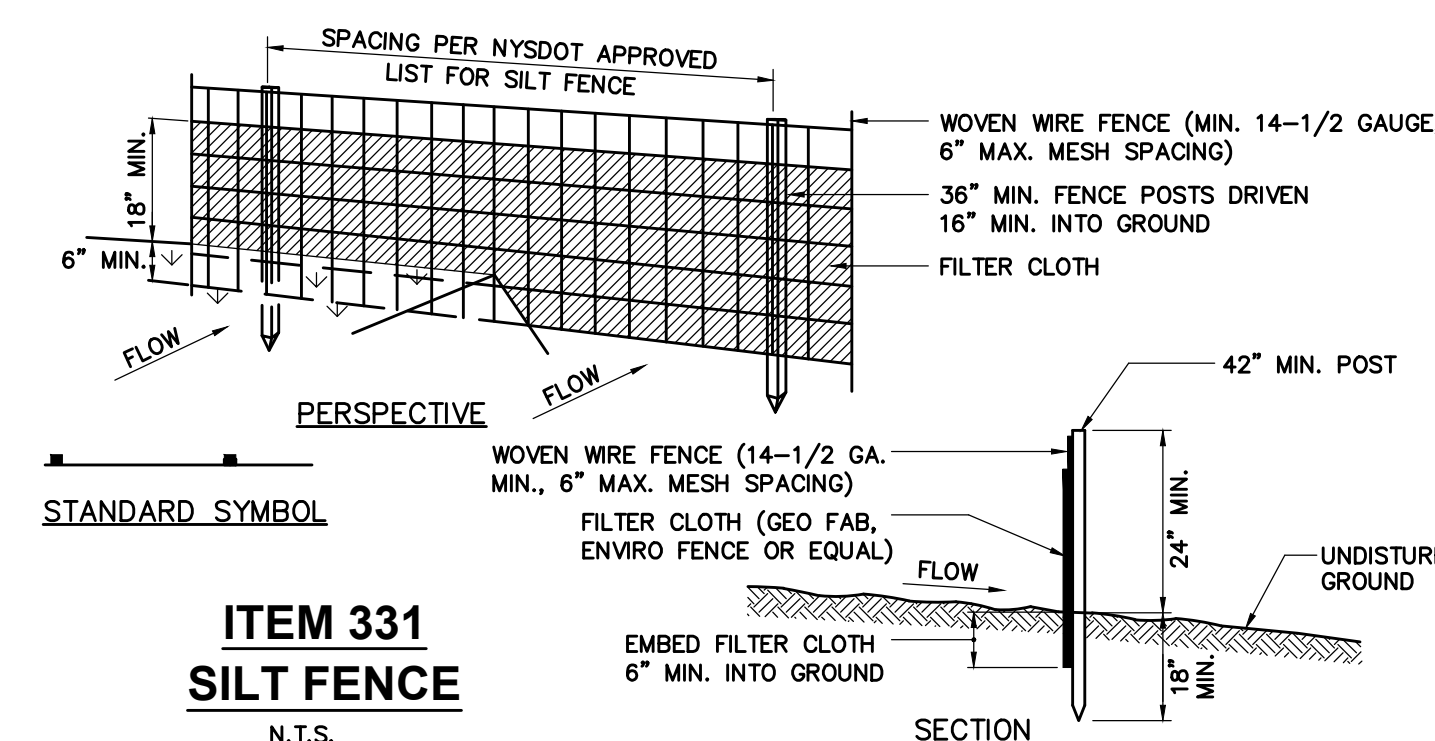
- ALL CONSTRUCTION EQUIPMENT SHALL BE OPERATED FROM DRY LAND, UPLAND AREAS OR ON A BARGE. ANY BLUFF EXCAVATION FOR TEMPORARY CONSTRUCTION ACCESS SHALL BE PERMITTED IN UPLAND AREAS ONLY AND SHALL BE RESTORED TO THE EXISTING ELEVATION. NO ADDITIONAL PAYMENT WILL BE MADE TO BACKFILL/RE-GRADE AREAS DISTURBED FOR CONSTRUCTION ACCESS. INCLUDE ALL COSTS IN ITEM 002.
- OTHER THAN THE PERMITTED AREAS SHOWN ON THE PLANS, ALL TEMPORARY GROUND DISTURBANCE AND EMBANKMENTS SHALL BE LOCATED IN UPLAND AREAS ONLY (ABOVE GROUND ELEV. 247.30).
- THE CONTRACTOR SHALL PHASE OPERATIONS TO ALLOW CONTINUOUS VEHICLE ACCESS TO PRIVATE PROPERTIES IN VICINITY OF THE PROJECT AREA.
- CONSTRUCTION MATERIALS AND EQUIPMENT SHALL REMAIN 16 FEET MINIMUM FROM TOP OF EMBANKMENT SLOPE DURING CONSTRUCTION OF THE FIRST FOUR ROWS OF GABIONS.
- ALL PAVED ROADS SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
- EXISTING POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
- MATERIALS, EQUIPMENT, AND VEHICLES SHALL NOT BE STORED OR PARKED OBSTRUCTING EXISTING ROADS AND DRIVEWAYS.
- NO NIGHT WORK IS PERMITTED.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS IN KIND OR AS SPECIFIED ON THE PLANS.
- LINEAR OPEN EXCAVATION PHASES FOR PROPOSED GABION BASKETS IS LIMITED TO A MAXIMUM 40 LF. THE NEXT OPEN EXCAVATION PHASE WILL NOT BE PERMITTED UNTIL THE TOP OF THE GABION WALL FOR THE PREVIOUS PHASE EXCEEDS EL. 256.0 (FIRST FOUR ROWS OF GABIONS).
- RESTORE ALL DISTURBED EXISTING STONE DRIVEWAY AND PARKING AREAS TO THE PRECONSTRUCTION WIDTH, GRADE AND SURFACE CONDITION. ADDITIONAL CRUSHED STONE MEETING NYDOT 733-04 (TYPE 2) SHALL BE PLACED AND COMPACTED A.O.B.E. PAYMENT FOR FURNISHING, PLACING AND COMPACTION. ADDITIONAL SUBBASE MATERIAL SHALL BE INCLUDED IN ITEM 505. MINOR RESTORATION OF DISTURBED DRIVEWAY AREAS SHALL BE INCLUDED IN ITEM 002.

STABILIZATION / SEEDING NOTES

- SEED ALL CUT AND FILL AREAS AND TOPSOIL PILES WITHIN SEVEN (7) DAYS AFTER COMPLETION.
- TEMPORARY SEEDING OF DISTURBED AREAS SHALL BE PROVIDED AS FOLLOWS:
THE SURFACE TWO INCHES OF SOIL SHOULD BE LOOSENEED BY DISKING, RAKING, OR BACK-BLADING WITH A BULLDOZER. IMMEDIATELY FERTILIZE WITH 300 POUNDS PER ACRE (OR SEVEN (7) POUNDS PER 1,000 SQ FT) OF 10-10-10 FERTILIZER. IMMEDIATELY SEED WITH A MIX OF RYEGRASSES (ANNUAL OR PERENNIAL) OR CEREAL GRASSES SUITABLE FOR THE AREA AS TEMPORARY COVER AND WHICH WILL NOT COMPETE WITH THE GRASSES SOWN LATER FOR PERMANENT COVER.
- FINAL RESTORATION OF LAWN AREAS SHALL RECEIVE 4" OF TOPSOIL AND BE STABILIZED USING THE FOLLOWING PERMANENT SEEDING MIX UPON COMPLETION OF UTILITIES, SIDEWALKS, AND FINE GRADING:

COMMON NAME	SCIENTIFIC NAME	VARIETY	PERCENT BY WEIGHT
FINE FESCUE (2 VARIETIES MIN. MUST INCLUDE CREEPING RED)	FESTUCA RUBRA VAR.	COMMERCIAL	50-70
PERENNIAL RYEGRASS (2 VAR. MIN.)	LOLIUM PERENNE	COMMERCIAL "TURF" TYPE	15-40
ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	COMMERCIAL	5-15
CLOVER (WHITE PREFERRED)	TRIFOLIUM REPENS	COMMERCIAL	5-10

- FOR FALL OR EARLY WINTER, SEED WITH CERTIFIED "AROSTOCK" WINTER RYE (CEREAL RYE) AT 100 LBS/ACRE.
- PERMANENT STABILIZATION FOR STEEP SLOPES 3:1 OR GREATER OR AS NOTED SHALL INCLUDE STREW BLANKET AND SEED MIX.
- DUST SHALL BE CONTROLLED BY DURING CONSTRUCTION BY THE CONTRACTOR TO MINIMIZE THE EFFECT ON THE ADJACENT PROPERTIES. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS NEEDED AND/OR AS DIRECTED BY THE OWNER.
- THE OWNER'S CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT, MAINTENANCE, CLEANING, REPAIR AND REPLACEMENT OF EROSION CONTROL MEASURES DURING SITE CONSTRUCTION.



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.
- POSTS: STEEL, EITHER T OR U TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE, 14-1/2 GAUGE, 6" MAX. MESH OPENING
FILTER CLOTH: FABRIC TO BE IN ACCORDANCE WITH NYSDOT STANDARD SHEET 209-01 ON APPROVED MATERIAL LIST.

APPLICATION NOTES

- THE PRIMARY PURPOSE OF A SILT FENCE OR SEDIMENT FILTER LOG IS TO INTERCEPT SEDIMENT LAKE RUNOFF BY TRAPPING IT IN THE SEDIMENT TRAP BEHIND THE FENCE OR LOG.
- IDENTIFY AREAS AND DEPOSITS BEHIND THE SILT FENCE OR SEDIMENT FILTER LOG. THESE AREAS SHOULD BE PROTECTED AGAINST THE SILT FENCE OR SEDIMENT FILTER LOG. THESE AREAS SHOULD BE PROTECTED AGAINST THE SILT FENCE OR SEDIMENT FILTER LOG.
- THE SILT FENCE OR SEDIMENT FILTER LOG SHALL BE USED IN AN AREA OF CONCENTRATED FLOW. IT SHALL BE INSTALLED IN AN AREA OF CONCENTRATED FLOW.
- THE SILT FENCE OR SEDIMENT FILTER LOG SHALL BE INSTALLED ON A LINE OF EQUAL ELEVATION CONTOUR. IT MAY BE INSTALLED AT INTERSECTION POINTS OF SLOPES OR SLOPES OF DIFFERENT ANGLES.
- FOR LOCATIONS THAT REQUIRE PLACEMENT OF SILT FENCE OR SEDIMENT FILTER LOG AT THE BASE OF SLOPE, THE SILT FENCE OR SEDIMENT FILTER LOG SHALL BE PLACED AT A MINIMUM OF 10 FEET FROM THE TOE OF THE SLOPE. OTHERWISE, THE SILT FENCE OR SEDIMENT FILTER LOG SHALL BE PLACED AT THE TOE OF THE SLOPE.
- THE ENDS OF A ROW OF SILT FENCE OR SEDIMENT FILTER LOGS SHALL BE WRAPPED UP SLOPE TO PREVENT COMPLETION FROM BEING COMPLETED WITH THE LINE OF THE FENCE. A SECTION OF SILT FENCE OR SEDIMENT FILTER LOG SHALL BE WRAPPED UP SLOPE TO PREVENT COMPLETION FROM BEING COMPLETED WITH THE LINE OF THE FENCE.
- WOOD POSTS FOR SILT FENCE SHALL HAVE A CROSS-SECTION AREA OF 3.6 SQUARE INCHES OF STEEL POSTS SHALL BE 1.5 INCHES IN DIAMETER. THE SILT FENCE SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF THE FENCE. THE LENGTH OF SILT FENCE SHALL BE AS DETERMINED ON THE DRAWINGS APPROVED FOR THE SILT FENCE. THE LENGTH OF SILT FENCE SHALL BE AS DETERMINED ON THE DRAWINGS APPROVED FOR THE SILT FENCE.
- THE SILT FENCE OR SEDIMENT FILTER LOG SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF THE FENCE. THE SILT FENCE OR SEDIMENT FILTER LOG SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF THE FENCE.
- SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE BANK ABOVE HEIGHT OR WHEN BEHIND DEVELOP IN THE FENCE. SEDIMENT SHALL BE DISPOSED OF IN AN UPLAND AREA.
- THE FOLLOWING ARE MINIMUM SLOPE LENGTHS BETWEEN ROWS FOR SILT FENCE INSTALLATION:

SILT FENCE MAXIMUM SLOPE LENGTH FEET			
SLOPE	STRENGTH	STANDARD	REINFORCED
4:1-10:1	200 TO 150	125	250
10:1-20:1	150 TO 50	100	150
20:1-30:1	50 TO 30	50	50
30:1-40:1	30 TO 20	40	40
> 40:1	> 20	30	30

* FOR SLOPES LESS THAN 4:1 SILT FENCE IS NOT RECOMMENDED.
** STANDARD SILT FENCE IS FABRIC MESH STAPLED TO WOODEN POSTS DRIVEN 18 INCHES INTO THE GROUND.
*** REINFORCED SILT FENCE IS FABRIC PLACED OVER METAL POSTS DRIVEN 18 INCHES INTO THE GROUND.

SEDIMENT FILTER LOG MAX SLOPE LENGTH FEET			
LOG DIA.	2'	12"	24"
12"	250	125	50
18"	275	150	75
24"	300	175	100

EROSION CONTROL & RESTORATION NOTES

- EROSION CONTROL DEVICES SHALL BE INSTALLED ON SITE PER THE EROSION CONTROL SEQUENCE AND THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION WATER QUALITY CERTIFICATION AND/OR FRESH WATER WETLANDS PERMIT AND/OR CORPS OF ENGINEER'S PERMIT (IF APPLICABLE).
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL EROSION CONTROL DEVICES AND TEMPORARY SEEDING UNTIL A PERMANENT COVER OF VEGETATION IS ESTABLISHED. MAINTENANCE SHALL INCLUDE, BUT IS NOT LIMITED TO, REMOVAL OF ACCUMULATED SEDIMENT, PREVENTATIVE AND REMEDIAL WORK, REPAIR, REPLACEMENT, WATERING SEEDED AREAS, RESEEDING AND REMULCHING.
- ON-SITE BURIAL OF WASTE MATERIAL CLEARED FROM THE WORK AREA IS NOT PERMITTED. CONTRACTOR SHALL DISPOSE OF OFF-SITE IN A LOCATION APPROVED BY LOCAL AND STATE ORDINANCES. ANY DEBRIS OR EXCESS MATERIAL EXPOSED ALONG A CREEK BED OR BANK SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED OR BANK TO AN AREA UPLAND FOR DISPOSAL.
- ALL LAKE SHORE WORK SHALL BE LIMITED TO WITHIN THE DESIGNATED RIGHT-OF-WAY, EASEMENT, OR T.E. LIMITS, OR RELEASE.
- ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT CONTAMINATION OF THE LAKE BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE LEACHATE, OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION AND CONSTRUCTION PROCEDURES.
- DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO THE WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS, OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLAND OR WATERS.
- ALL DREDGED AND EXCAVATED MATERIAL SHALL BE DISPOSED OF ON AN UPLAND SITE AND BE SUITABLY STABILIZED SO THAT IT CANNOT REASONABLY RE-ENTER ANY WATER BODY OR WETLAND AREA.
- ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THIS PROJECT SHALL BE SEEDING WITH AN APPROPRIATE PERENNIAL GRASS SEED AND MULCHED WITH STRAW WITHIN ONE WEEK OF FINAL GRADING. MULCH SHALL BE MAINTAINED UNTIL A SUITABLE VEGETATIVE COVER IS ESTABLISHED.
- IF REQUIRED, CONTRACTOR SHALL PROVIDE ADDITIONAL TEMPORARY EROSION CONTROL MEASURES TO PREVENT SILTATION OF DOWN STREAM PROPERTIES, WITH APPROVAL FROM THE OWNER AND AT THE CONTRACTOR'S EXPENSE.
- IN THE EVENT THERE IS A FAILURE OF AN EROSION CONTROL DEVICE, THE CONTRACTOR IS RESPONSIBLE TO RESTORE DOWNSTREAM AREAS AT CONTRACTOR'S EXPENSE.
- THE COST OF INSTALLING, CLEANING AND REMOVING TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE INCLUDED IN ITEM 331.
- WHERE SILT FENCE IS USED IN AREAS OF CONCENTRATED FLOW THE ENGINEER IN CHARGE MAY CALL FOR BACKING THE FENCE WITH STRAW BALES.
- THE CONTRACTOR SHALL PROVIDE DUST CONTROL BY WATERING AS NEEDED.
- THE CONTRACTOR SHALL KEEP PAVED SURFACES CLEAN OF MUD AND DEBRIS AT ALL TIMES.
- ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY CHECKED, CLEANED AND REPAIRED, PARTICULARLY AFTER STORM EVENTS BY THE CONTRACTOR.
- DURING DEWATERING OPERATIONS, THE CONTRACTOR SHALL DISCHARGE ALL PUMPED WATER THROUGH AN APPROPRIATELY SIZED SILT SACK ATTACHED DIRECTLY TO THE PUMP DISCHARGE HOSE.
- INCLUDE COSTS FOR ALL EROSION CONTROL MEASURES IN ITEM 331.

Project Title: **BLIND SODUS BAY WESTERN BLUFF REDI PROJECT TOWN OF WOLCOTT, WAYNE COUNTY, NY**

Project No.: _____ Revisions and Descriptions: _____ By: _____ Date: _____

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Drawn By: RPB Checked By: CSB Scale: 1" = 50' Date: 06/2022

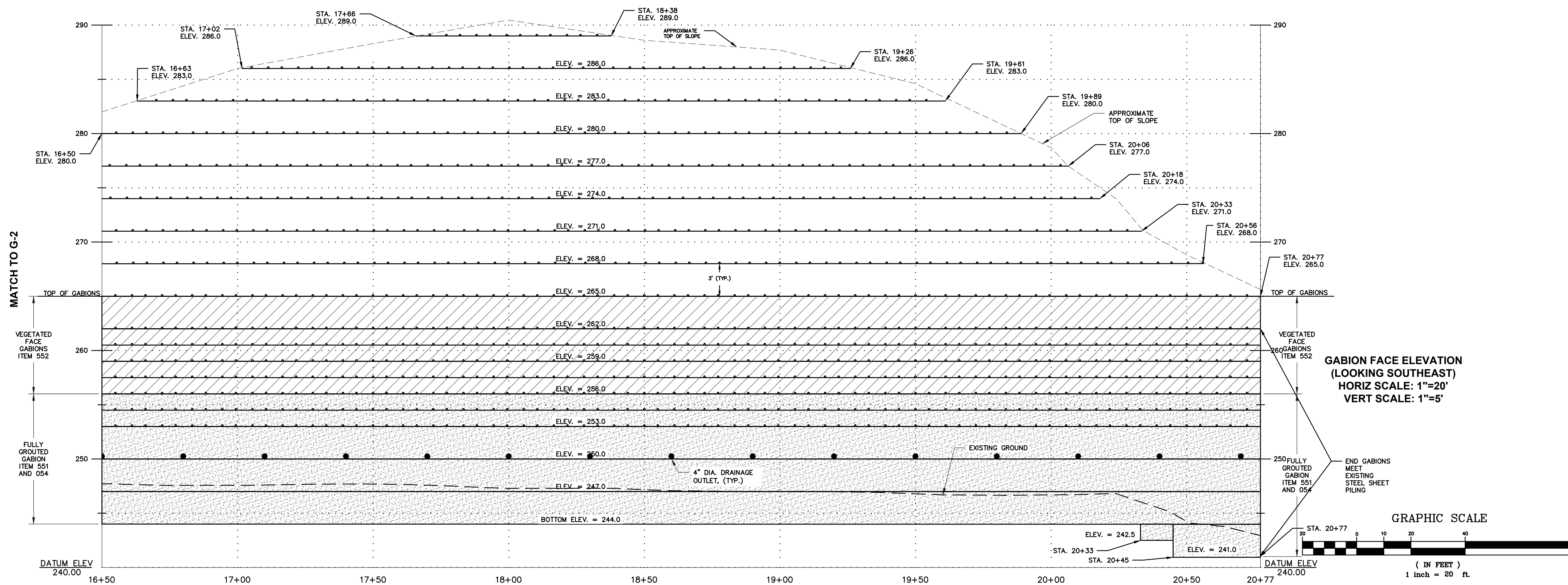
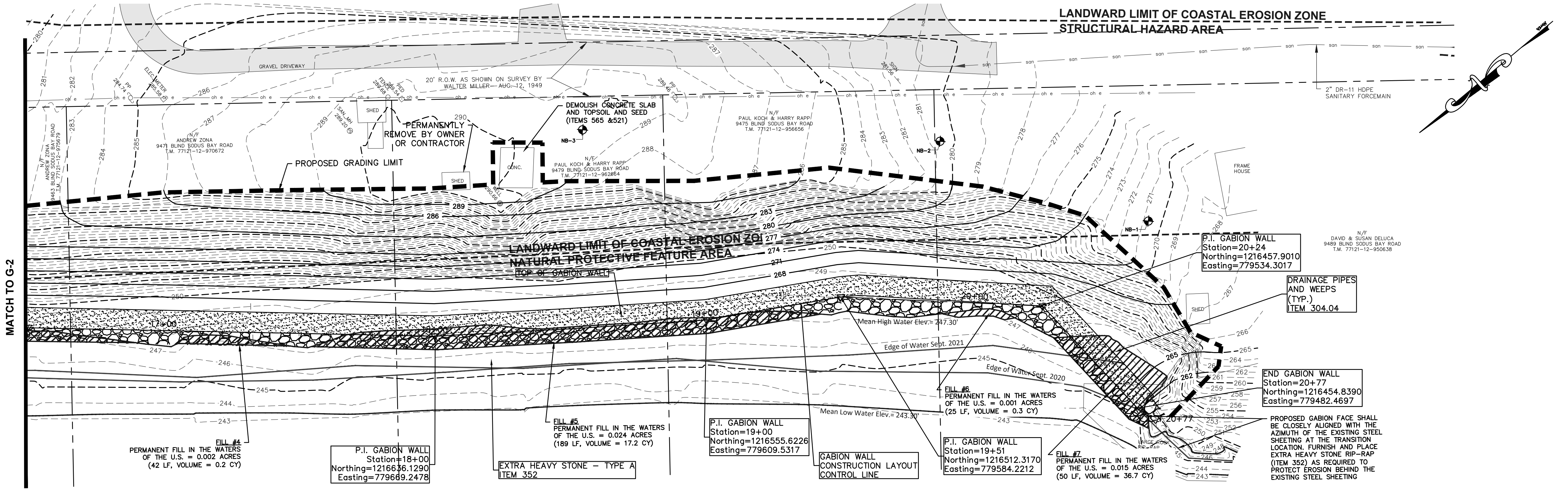
Project Title: **WORK ZONE TRAFFIC CONTROL AND CONSTRUCTION STAGING**

Sheet No. **WZTC-1** of **3** Project No. **2317.2001**

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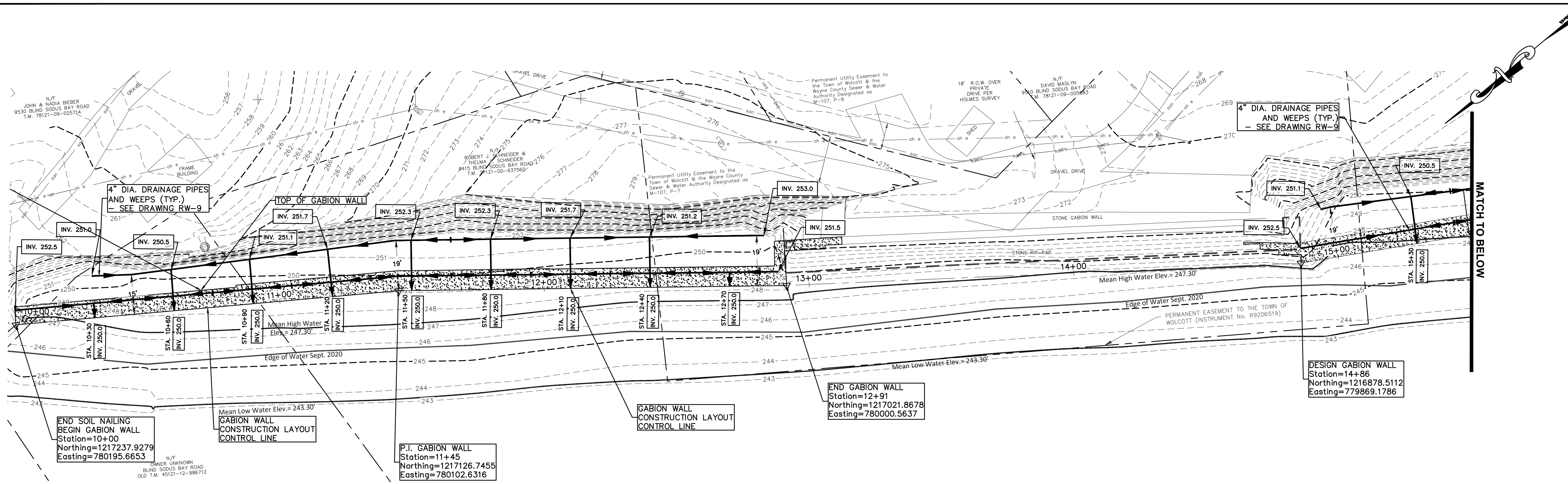
DRAWING ALTERATION
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LANDWARD LIMIT OF COASTAL EROSION ZONE
STRUCTURAL HAZARD AREA

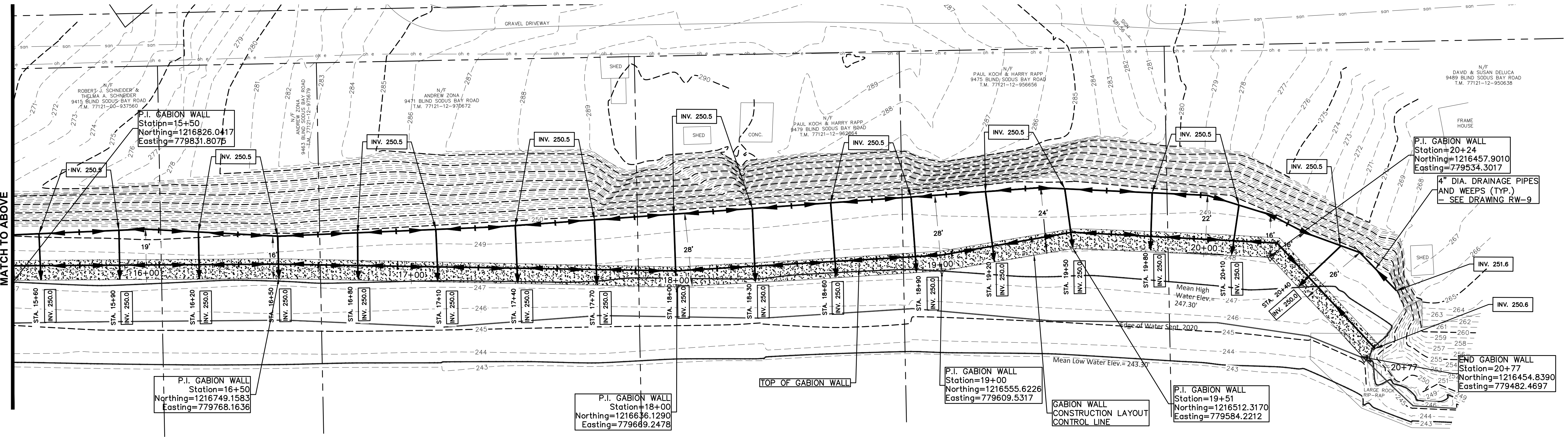


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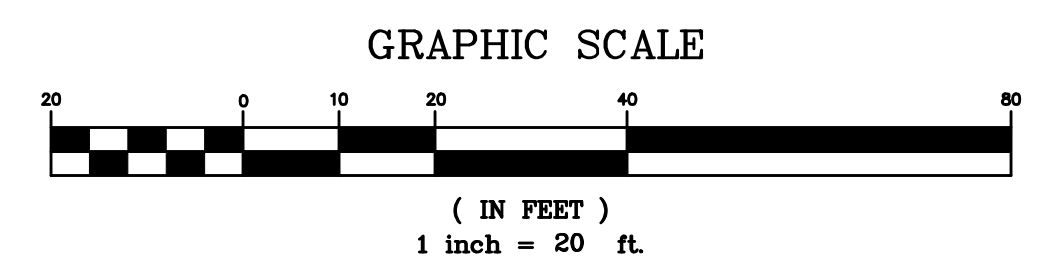
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Project No.:		2317.20001	
Sheet No.:		G-3 6 of 25	
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DRAINAGE PLAN



DRAINAGE PLAN



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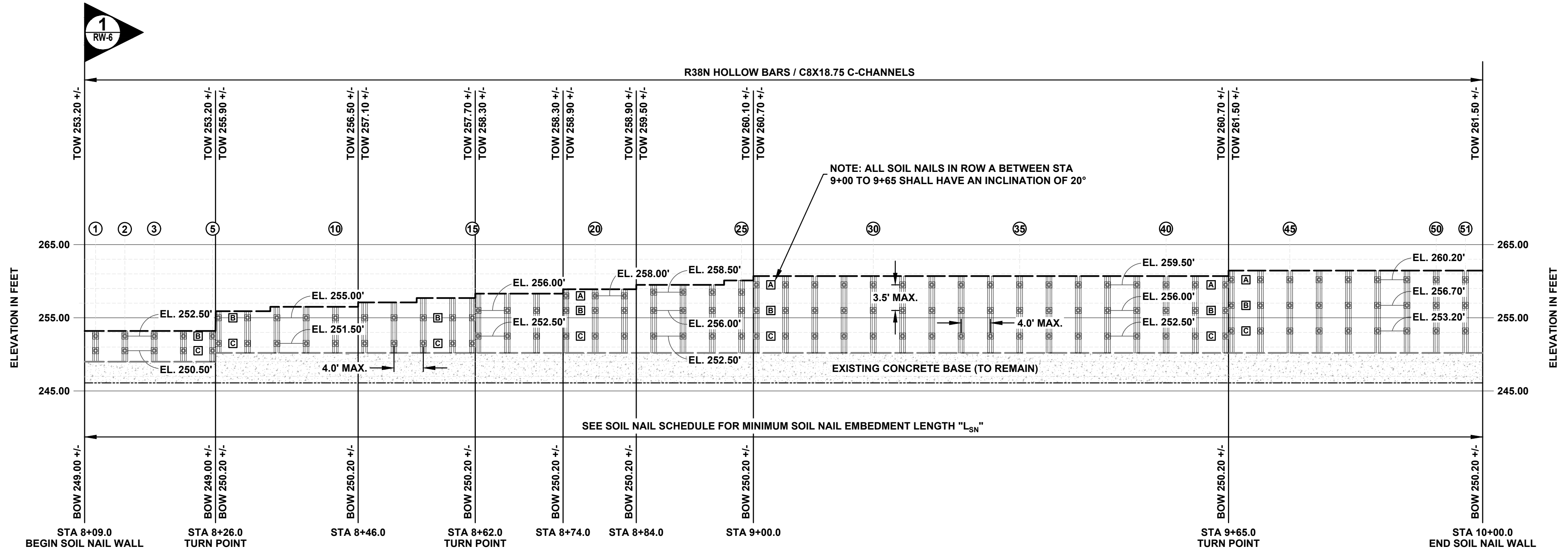
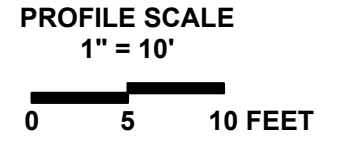
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Drawing Title:		DRAINAGE PLAN	
Project No.:		2317.20001	
Sheet No.:		D-1	
7 of 25			
Project No.:		2317.20001	
Date:		4.18.2022	
By:		All Rights Reserved	
Revisions and Descriptions:			
1. REVISED GABION WALL LOCATION			
No.:			
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 Suite 160, Rochester, New York 14620
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LEGEND:

- ⊙ SOIL NAIL LOCATION; R38N HOLLOW BAR
- FINISHED GRADE AT TOP OF WALL
- TOP OF EXISTING CONCRETE ENCASEMENT
- BOTTOM OF EXISTING CONCRETE ENCASEMENT
- A SOIL NAIL ROW
- ① SOIL NAIL COLUMN
- EL. 256.2' SOIL NAIL ELEVATIONS (TYP.)

- A_s ALLOWABLE PULLOUT RESISTANCE (LB/FT)
- STA STATION ALONG SOIL NAIL WALL ALIGNMENT
- "L_{SN}" MINIMUM SOIL NAIL EMBEDMENT LENGTH
- TOW ELEVATION AT TOP OF SOIL NAIL WALL
- BOW ELEVATION AT BOTTOM OF WALL AND TOP OF EXISTING CONCRETE ENCASEMENT
- (2) C8x18.75 C-CHANNELS ON BOTH SIDES OF SOIL NAIL COLUMNS



SOIL NAIL WALL STA 8+09.0 TO 10+00.0: SOIL NAIL PLACEMENT

SOIL NAIL SCHEDULE								
STATION	ROW	COLUMN	MIN. LENGTH "L _{SN} " (FT)	INCLINATION ANGLE	MAX. HORIZONTAL SPACING (FT)	MIN. DRILL HOLE SIZE (IN)	HOLLOW BAR SIZE	Ad (LB/FT)
8+09.0 TO 8+26.0	B	1 - 5	8	15°	4	5	R38N	1414
	C		8					
8+26.0 TO 8+62.0	B	6 - 15	10	15°	4	5	R38N	1414
	C		10					
8+62.0 TO 8+74.0	B	16 - 18	12	15°	4	5	R38N	1414
	C		10					
8+74.0 TO 9+00.0	A	19 - 25	14	15°	4	5	R38N	1178
	B		12					1414
	C		11					1178
9+00.0 TO 9+65.0	A	26 - 42	15	20°	4	5	R38N	1178
	B		14					1414
	C		14					1414
9+65.0 TO 10+00.0	A	43 - 51	17	15°	4	5	R38N	943
	B		16					1414
	C		16					1414

No.	Revisions and Descriptions	By	Date

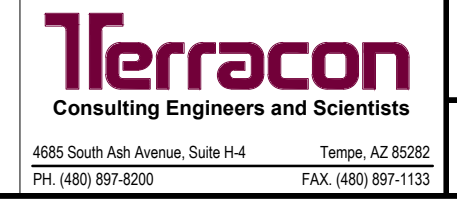
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**BLIND SODUS BAY
 WESTERN BLUFF REDI PROJECT
 TOWN OF WOLCOTT, WAYNE COUNTY, NY**
 Drawing Title:
SOIL NAIL WALL PROFILE

Drawn By: RFR
 Checked By: BJD
 Scale: 1"=10'
 Date: 06/2022

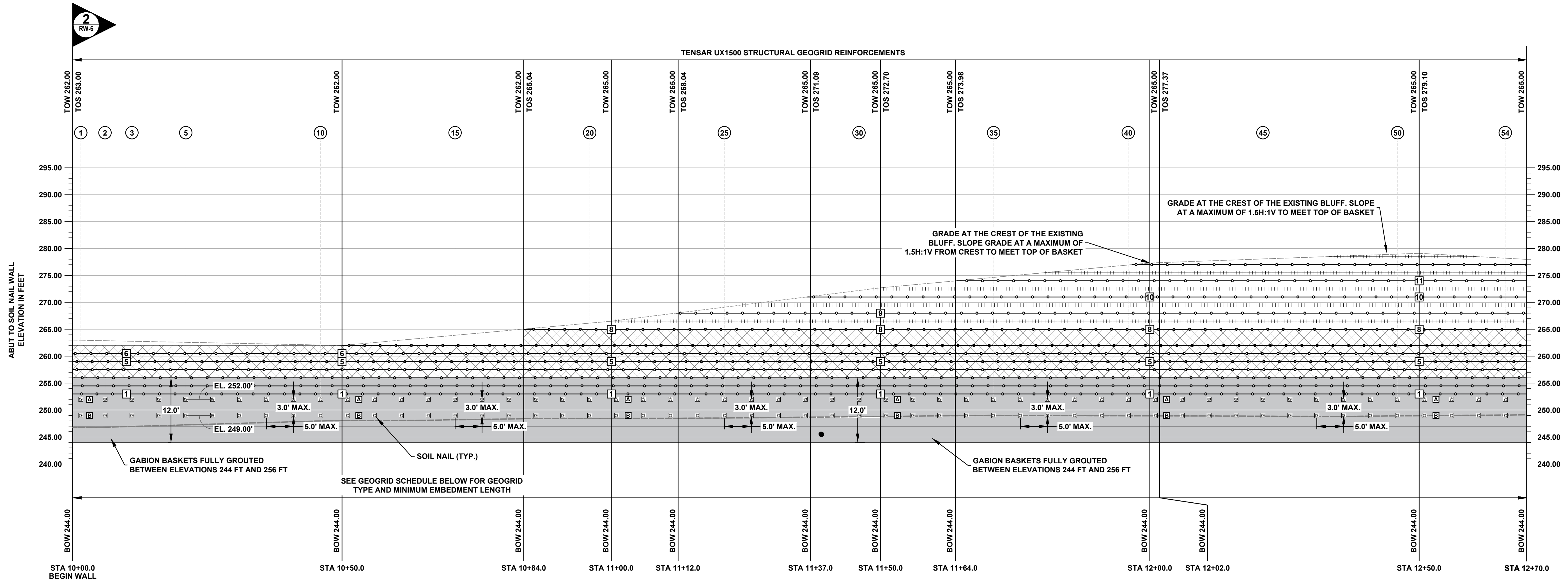


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Sheet No. **RW-1**
8 of **25**
 Project No. **65215077**



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 PH: (480) 897-6200 FAX: (480) 897-1133



MSE GABION WALL/REINFORCED SOIL SLOPE (RSS) STA 10+00.0 TO 12+70.0: GABION BASKETS AND GEOGRID PLACEMENT

MSE WALL AND RSS DESIGN - GEOGRID SCHEDULE					
WALL STATION	MAXIMUM HEIGHT (FT)	LAYER NO.	GEOGRID TYPE	MINIMUM GEOGRID EMBEDMENT LENGTH "L" (FT)	LONG TERM DESIGN STRENGTH (LB/FT)
10+00 TO 10+50.0	18.0	1 - 5	TENSAR UX1500	11.5	2403
		6		13.5	
		1 - 5		15.0	
		6 - 7		18.5	
		8		20.0	
10+50.0 TO 11+50.0	28.7	9	TENSAR UX1500	17.0	2403
		10		13.0	
		1 - 7		18.5	
		8		23.0	
		9		20.0	
11+50.0 TO 12+70.0	35.0	10	TENSAR UX1500	17.0	2403
		11		13.0	
		12		10.0	

NOTES:
 1. THE LONG TERM DESIGN IS BASED ON INSTALLATION DAMAGE TESTING IN GRAVEL.
 2. ALL SECONDARY GEOGRIDS SHOWN IN THE PROFILE ARE NOT DESCRIBED IN THIS TABLE. SECONDARY GEOGRIDS ARE TO BE BX1100 AND INSTALLED AT A MINIMUM LENGTH OF 4.5 FEET. REFER TO THE CROSS SECTION FOR DETAILS.
 3. GEOGRIDS 1-7 ARE WITHIN THE MSE WALL AND GEOGRIDS 8 AND ABOVE ARE WITHIN THE RSS.

GEOGRID SCHEDULE	
LAYER NO.	ELEVATION (FT)
1	253.0
2	254.5
3	256.0
4	257.5
5	259.0
6	260.5
7	262.0
8	265.0
9	268.0
10	271.0
11	274.0
12	277.0

SOIL NAIL SCHEDULE								
STATION	ROW	COLUMN	MIN. BONDED LENGTH "L _B " (FT) ¹	INCLINATION ANGLE	MAX. HORIZONTAL SPACING (FT)	MIN. DRILL HOLE SIZE (IN)	HOLLOW BAR SIZE	Ad (LB/FT)
10+00 TO 10+50.0	A	1 - 10	8	15°	5	5	R38N	1414
	B		11					
10+50.0 TO 11+50.0	A	10 - 30	11	15°	5	5	R38N	1414
	B		20					
11+50.0 TO 12+70.0	A	30 - 54	20	15°	5	5	R38N	1414
	B		20					

NOTES:
 1. TOTAL LENGTH OF SOIL NAIL WILL VARY BASED ON DISTANCE FROM EXISTING GRADE TO FACE OF WALL.
 2. BONDED LENGTH SHOWN IN TABLE IS CONSIDERED ONLY IN UNDISTURBED SITE SOILS. REFER TO CROSS SECTION FOR DETAILS.
 3. PAYMENT FOR ROW A SOIL NAILS SHALL BE UNDER ITEM 078T AND ROW B SOIL NAILS UNDER ITEM 078B.

LEGEND:

- GABION BASKETS WITH VEGETATED FACE
- GROUTED GABION BASKETS
- EXISTING GABION BASKETS
- TENSAR UX1500 STRUCTURAL GEOGRID
- TENSAR BX1100 STRUCTURAL GEOGRID
- FINISHED GRADE AT THE CREST OF EXISTING BLUFF AT TOP OF WALL
- FINISHED GRADE AT BOTTOM OF WALL
- STA STATION ALONG RETAINING WALL ALIGNMENT
- EL. 249.0' SOIL NAIL ELEVATIONS (TYP.)
- SOIL NAIL ROW
- GEOGRID LAYER
- SOIL NAIL LOCATION; R38N HOLLOW BAR
- SOIL NAIL COLUMN
- "L" MINIMUM GEOGRID EMBEDMENT LENGTH
- TOW ELEVATION AT TOP OF WALL
- BOW ELEVATION AT BOTTOM OF WALL
- "L_B" MINIMUM BONDED SOIL NAIL LENGTH
- MSE MECHANICALLY STABILIZED EARTH
- RSS REINFORCED SOIL SLOPE

ELEVATION IN FEET
CONTINUED ON SHEET RW-3

No.	Revisions and Descriptions	By	Date

Project Title:
**BLIND SODUS BAY
 WESTERN BLUFF REDI PROJECT
 TOWN OF WOLCOTT, WAYNE COUNTY, NY**

Drawing Title:
MSE GABION WALL PROFILE

Drawn By: RFR
 Checked By: BJD
 Scale: 1"=10'
 Date: 06/2022



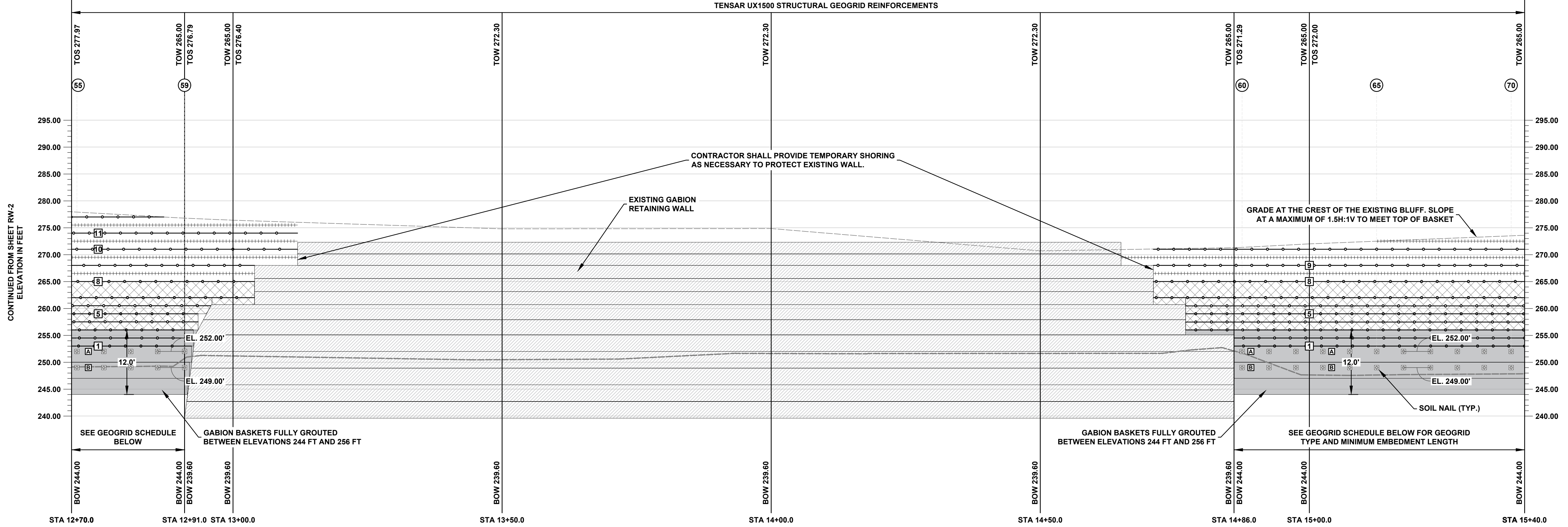
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 Suite 100, Rochester, New York 14620
 Phone: 585-381-1250
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Sheet No. **RW-2**
9 of **25**
 Project No. **65215077**



4885 South Ash Avenue, Suite H-4 Tempe, AZ 85282
 PH: (480) 897-6200 FAX: (480) 897-1133

TENSAR UX1500 STRUCTURAL GEOGRID REINFORCEMENTS



MSE GABION WALL/REINFORCED SOIL SLOPE (RSS) STA 12+70.0 TO 15+40.0: GABION BASKETS AND GEOGRID PLACEMENT

MSE WALL AND RSS DESIGN - GEOGRID SCHEDULE									
WALL STATION	MAXIMUM HEIGHT (FT)	LAYER NO.	GEOGRID TYPE	MINIMUM GEOGRID EMBEDMENT LENGTH "L" (FT)	LONG TERM DESIGN STRENGTH (LB/FT)'				
12+70.0 TO 12+91.0	34.0	1 - 7	TENSAR UX1500	18.5	2403				
		8		23.0					
		9		20.0					
		10		17.0					
		11		13.0					
		12		10.0					
		14+86.0 TO 15+40.0		29.5		1 - 7	TENSAR UX1500	18.5	2403
						8		21.0	
						9		19.0	
						10		16.0	

NOTES:
 1. THE LONG TERM DESIGN IS BASED ON INSTALLATION DAMAGE TESTING IN GRAVEL.
 2. ALL SECONDARY GEOGRIDS SHOWN IN THE PROFILE ARE NOT DESCRIBED IN THIS TABLE. SECONDARY GEOGRIDS ARE TO BE BX1100 AND INSTALLED AT A MINIMUM LENGTH OF 4.5 FEET. REFER TO THE CROSS SECTION FOR DETAILS.
 3. GEOGRIDS 1-7 ARE WITHIN THE MSE WALL AND GEOGRIDS 8 AND ABOVE ARE WITHIN THE RSS.

GEOGRID SCHEDULE	
LAYER NO.	ELEVATION (FT)
1	253.0
2	254.5
3	256.0
4	257.5
5	259.0
6	260.5
7	262.0
8	265.0
9	268.0
10	271.0
11	274.0
12	277.0

SOIL NAIL SCHEDULE								
STATION	ROW	COLUMN	MIN. BONDED LENGTH "L _b " (FT)¹	INCLINATION ANGLE	MAX. HORIZONTAL SPACING (FT)	MIN. DRILL HOLE SIZE (IN)	HOLLOW BAR SIZE	Ad (LB/FT)
12+70.0 TO 12+91.0	A	55 - 59	20	15°	5	5	R38N	1414
	B		20					
14+86.0 TO 15+40.0	A	60 - 70	20	15°	5	5	R38N	1414
	B		20					

NOTES:
 1. TOTAL LENGTH OF SOIL NAIL WILL VARY BASED ON DISTANCE FROM EXISTING GRADE TO FACE OF WALL.
 2. BONDED LENGTH SHOWN IN TABLE IS CONSIDERED ONLY IN UNDISTURBED SITE SOILS. REFER TO CROSS SECTION FOR DETAILS.
 3. PAYMENT FOR ROW A SOIL NAILS SHALL BE UNDER ITEM 078T AND ROW B SOIL NAILS UNDER ITEM 078B.

LEGEND:

- GABION BASKETS WITH VEGETATED FACE
- GROUTED GABION BASKETS
- EXISTING GABION BASKETS
- TENSAR UX1500 STRUCTURAL GEOGRID
- TENSAR BX1100 STRUCTURAL GEOGRID
- FINISHED GRADE AT THE CREST OF EXISTING BLUFF AT TOP OF WALL
- FINISHED GRADE AT BOTTOM OF WALL
- STA STATION ALONG RETAINING WALL ALIGNMENT
- EL. 249.0' SOIL NAIL ELEVATIONS (TYP.)
- SOIL NAIL ROW
- GEOGRID LAYER
- SOIL NAIL LOCATION; R38N HOLLOW BAR
- SOIL NAIL COLUMN
- "L" MINIMUM GEOGRID EMBEDMENT LENGTH
- TOW ELEVATION AT TOP OF WALL
- BOW ELEVATION AT BOTTOM OF WALL
- "L_b" MINIMUM BONDED SOIL NAIL LENGTH
- MSE MECHANICALLY STABILIZED EARTH
- RSS REINFORCED SOIL SLOPE

No.	Revisions and Descriptions	By	Date

Project Title:
**BLIND SODUS BAY
 WESTERN BLUFF REDI PROJECT
 TOWN OF WOLCOTT, WAYNE COUNTY, NY**

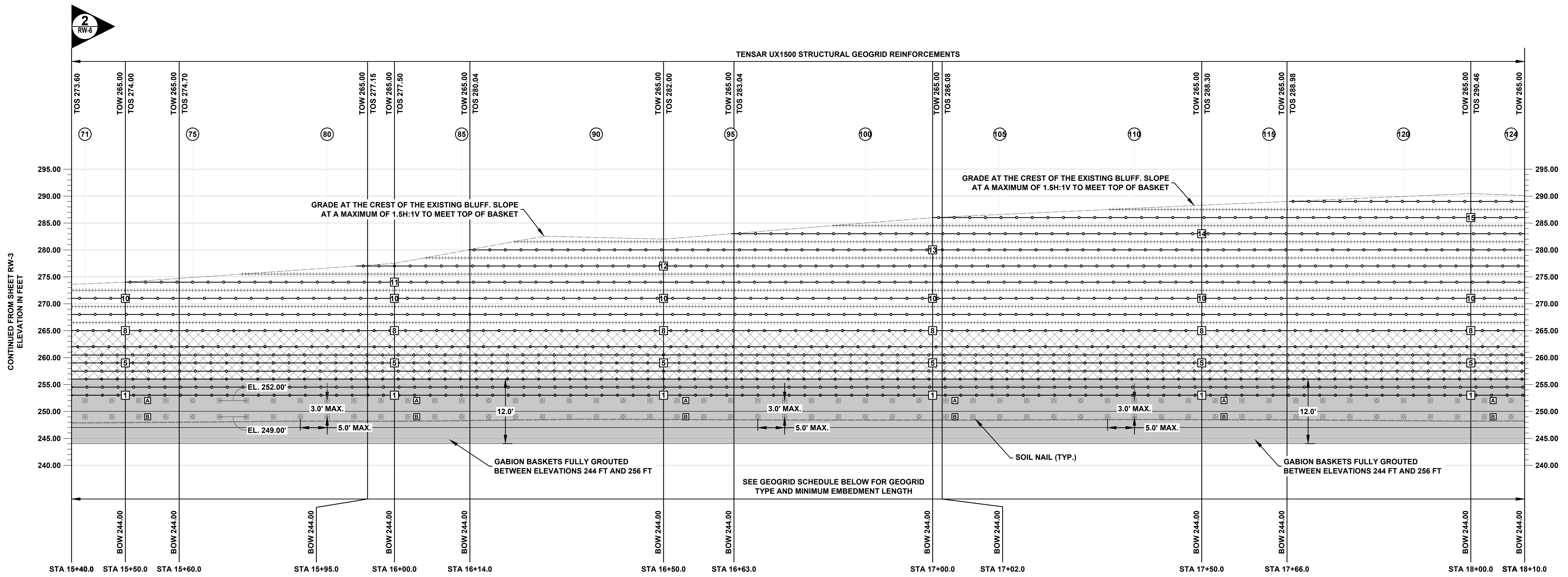
Drawing Title:
MSE GABION WALL PROFILE

Drawn By: RFR
 Checked By: BJD
 Scale: 1"=10'
 Date: 06/2022



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Sheet No. **RW-3**
10 of **25**
 Project No. **65215077**



MSE GABION WALL/REINFORCED SOIL SLOPE (RSS) STA 15+40.0 TO 18+10.0: GABION BASKETS AND GEOGRID PLACEMENT

MSE WALL AND RSS DESIGN - GEOGRID SCHEDULE					
WALL STATION	MAXIMUM HEIGHT (FT)	LAYER NO.	GEOGRID TYPE	MINIMUM GEOGRID EMBEDMENT LENGTH "L" (FT)	LONG TERM DESIGN STRENGTH (LB/FT) ¹
15+40.0 TO 16+00.0	33.5	1 - 7	TENSAR UX1500	18.5	2403
		8		21.0	
		9		19.0	
		10		16.0	
		11 - 12		14.0	
		1 - 7		20.0	
16+00.0 TO 17+00.0	42.0	8 - 9	TENSAR UX1500	28.0	2403
		10		25.0	
		11		23.0	
		12 - 14		17.0	
		1 - 9		21.5	
		10		18.5	
17+00.0 TO 18+10.0	46.0	11	TENSAR UX1500	16.5	2403
		12		13.0	
		13		12.0	
		14		11.0	
		15 - 16		9.0	

NOTES:
 1. THE LONG TERM DESIGN IS BASED ON INSTALLATION DAMAGE TESTING IN GRAVEL.
 2. ALL SECONDARY GEOGRIDS SHOWN IN THE PROFILE ARE NOT DESCRIBED IN THIS TABLE. SECONDARY GEOGRIDS ARE TO BE BX1100 AND INSTALLED AT A MINIMUM LENGTH OF 4.5 FEET. REFER TO THE CROSS SECTION FOR DETAILS.
 3. GEOGRIDS 1-7 ARE WITHIN THE MSE WALL AND GEOGRIDS 8 AND ABOVE ARE WITHIN THE RSS.

GEOGRID SCHEDULE	
LAYER NO.	ELEVATION (FT)
1	253.0
2	254.5
3	256.0
4	257.5
5	259.0
6	260.5
7	262.0
8	265.0
9	268.0
10	271.0
11	274.0
12	277.0
13	280.0
14	283.0
15	286.0
16	289.0

SOIL NAIL SCHEDULE								
STATION	ROW	COLUMN	MIN. BONDED LENGTH "L _B " (FT) ¹	INCLINATION ANGLE	MAX. HORIZONTAL SPACING (FT)	MIN. DRILL HOLE SIZE (IN)	HOLLOW BAR SIZE	Ad (LB/FT)
15+40.0 TO 16+00.0	A	71 - 82	20	15°	5	5	R38N	1414
	B		20					
16+00.0 TO 17+00.0	A	82 - 102	25	15°	5	5	R38N	1414
	B		25					
17+00.0 TO 18+10.0	A	102 - 124	29	15°	5	5	R38N	1414
	B		29					

NOTES:
 1. TOTAL LENGTH OF SOIL NAIL WILL VARY BASED ON DISTANCE FROM EXISTING GRADE TO FACE OF WALL.
 2. BONDED LENGTH SHOWN IN TABLE IS CONSIDERED ONLY IN UNDISTURBED SITE SOILS. REFER TO CROSS SECTION FOR DETAILS.
 3. PAYMENT FOR ROW A SOIL NAILS SHALL BE UNDER ITEM 078T AND ROW B SOIL NAILS UNDER ITEM 078B.

LEGEND:

- GABION BASKETS WITH VEGETATED FACE
- GROUTED GABION BASKETS
- EXISTING GABION BASKETS
- TENSAR UX1500 STRUCTURAL GEOGRID
- TENSAR BX1100 STRUCTURAL GEOGRID
- FINISHED GRADE AT THE CREST OF EXISTING BLUFF AT TOP OF WALL
- FINISHED GRADE AT BOTTOM OF WALL
- STA STATION ALONG RETAINING WALL ALIGNMENT
- EL. 249.0' SOIL NAIL ELEVATIONS (TYP.)
- SOIL NAIL ROW
- GEOGRID LAYER
- SOIL NAIL LOCATION; R38N HOLLOW BAR
- SOIL NAIL COLUMN
- "L" MINIMUM GEOGRID EMBEDMENT LENGTH
- TOW ELEVATION AT TOP OF WALL
- BOW ELEVATION AT BOTTOM OF WALL
- "L_B" MINIMUM BONDED SOIL NAIL LENGTH
- MSE MECHANICALLY STABILIZED EARTH
- RSS REINFORCED SOIL SLOPE

No.	Revisions and Descriptions	By	Date

Project Title:
**BLIND SODUS BAY
 WESTERN BLUFF REDDI PROJECT
 TOWN OF WOLCOTT, WAYNE COUNTY, NY**

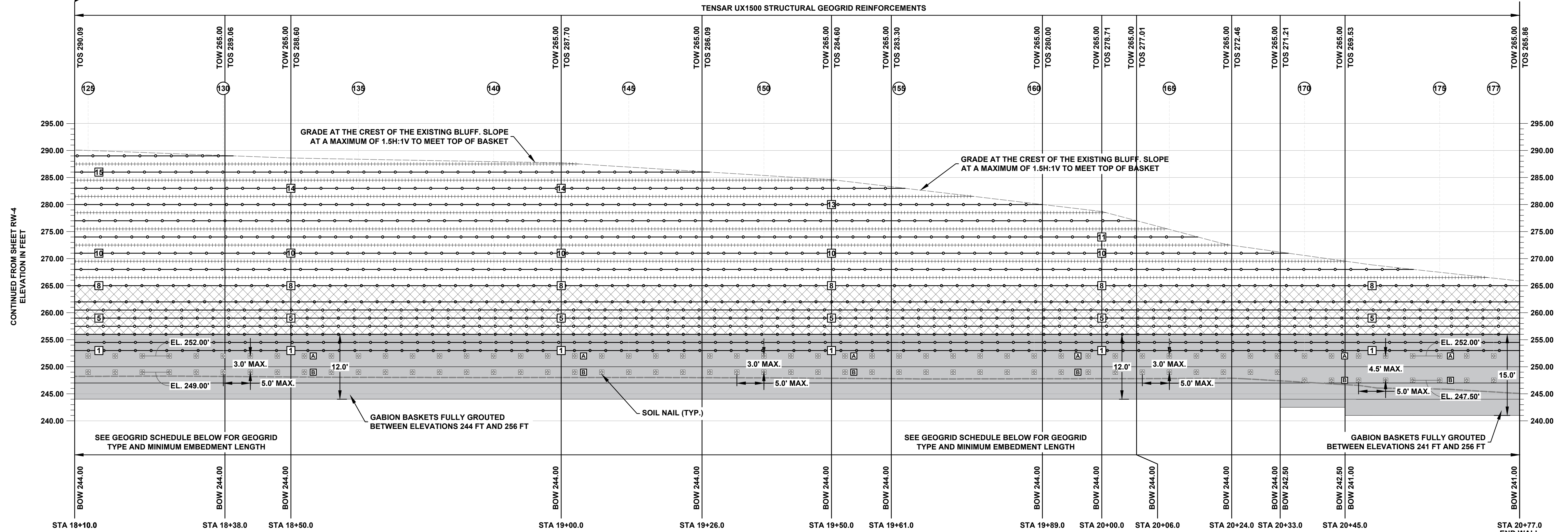
Drawing Title:
MSE GABION WALL PROFILE

Drawn By: RFR
 Checked By: BJD
 Scale: 1"=10'
 Date: 06/2022



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MSE GABION WALL/REINFORCED SOIL SLOPE (RSS) STA 18+10.0 TO 20+77.0: GABION BASKETS AND GEOGRID PLACEMENT

MSE WALL AND RSS DESIGN - GEOGRID SCHEDULE									
STATION	MAXIMUM HEIGHT (FT)	LAYER NO.	GEOGRID TYPE	MINIMUM GEOGRID EMBEDMENT LENGTH "L" (FT)	LONG TERM DESIGN STRENGTH (LB/FT) ¹				
18+10.0 TO 19+50.0	46.0	1 - 8	TENSAR UX1500	21.5	2403				
		9		21.5					
		10		18.5					
		11		16.5					
		12		13.0					
		13		12.0					
		14		11.0					
		15 - 16		9.0					
		19+50.0 TO 20+00.0		41.0		1 - 7	TENSAR UX1500	19.0	2403
						8		21.5	
9	19.0								
10	16.0								
11	13.0								
12	11.0								
13 - 14	8.0								
20+00.0 TO 20+77.0	35.0		1 - 7		TENSAR UX1500	17.0		2403	
			8 - 9			18.5			
			10 - 11			16.5			
		12	15.0						

NOTES:
 1. THE LONG TERM DESIGN STRENGTH IS BASED ON INSTALLATION DAMAGE TESTING IN GRAVEL.
 2. ALL SECONDARY GEOGRIDS SHOWN IN THE PROFILE ARE NOT DESCRIBED IN THIS TABLE. SECONDARY GEOGRIDS ARE TO BE BX1100 AND INSTALLED AT A MINIMUM LENGTH OF 4.5 FEET. REFER TO THE CROSS SECTION FOR DETAILS.
 3. GEOGRIDS 1-7 ARE WITHIN THE MSE WALL AND GEOGRIDS 8 AND ABOVE ARE WITHIN THE RSS.

GEOGRID SCHEDULE	
LAYER NO.	ELEVATION (FT)
1	253.0
2	254.5
3	256.0
4	257.5
5	259.0
6	260.5
7	262.0
8	265.0
9	268.0
10	271.0
11	274.0
12	277.0
13	280.0
14	283.0
15	286.0
16	289.0

SOIL NAIL SCHEDULE								
STATION	ROW	COLUMN	MIN. BONDED LENGTH "L _B " (FT) ¹	INCLINATION ANGLE	MAX. HORIZONTAL SPACING (FT)	MIN. DRILL HOLE SIZE (IN)	HOLLOW BAR SIZE	Ad (LB/FT)
18+10.0 TO 19+50.0	A	125 - 152	29	15°	5	5	R38N	1414
	B		29					
19+50.0 TO 20+00.0	A	153 - 162	25	15°	5	5	R38N	1414
	B		25					
20+00.0 TO 20+77.0	A	163 - 177	23	15°	5	5	R38N	1414
	B		23					

NOTES:
 1. TOTAL LENGTH OF SOIL NAIL WILL VARY BASED ON DISTANCE FROM EXISTING GRADE TO FACE OF WALL.
 2. BONDED LENGTH SHOWN IN TABLE IS CONSIDERED ONLY IN UNDISTURBED SITE SOILS. REFER TO CROSS SECTION FOR DETAILS.
 3. PAYMENT FOR ROW A SOIL NAILS SHALL BE UNDER ITEM 078T AND ROW B SOIL NAILS UNDER ITEM 078B.

- LEGEND:**
- GABION BASKETS WITH VEGETATED FACE
 - GROUTED GABION BASKETS
 - EXISTING GABION BASKETS
 - TENSAR UX1500 STRUCTURAL GEOGRID
 - TENSAR BX1100 STRUCTURAL GEOGRID
 - FINISHED GRADE AT THE CREST OF EXISTING BLUFF AT TOP OF WALL
 - FINISHED GRADE AT BOTTOM OF WALL
 - STA STATION ALONG RETAINING WALL ALIGNMENT
 - EL. 249.0' SOIL NAIL ELEVATIONS (TYP.)
 - SOIL NAIL ROW
 - GEOGRID LAYER
 - SOIL NAIL LOCATION; R38N HOLLOW BAR
 - SOIL NAIL COLUMN
 - "L" MINIMUM GEOGRID EMBEDMENT LENGTH
 - TOW ELEVATION AT TOP OF WALL
 - BOW ELEVATION AT BOTTOM OF WALL
 - MSE MECHANICALLY STABILIZED EARTH
 - RSS REINFORCED SOIL SLOPE

No.	Revisions and Descriptions	By	Date

Project Title:
**BLIND SODUS BAY
 WESTERN BLUFF REDDI PROJECT
 TOWN OF WOLCOTT, WAYNE COUNTY, NY**

Drawing Title:
MSE GABION WALL PROFILE

Drawn By: RFR
 Checked By: BJD
 Scale: 1"=10'
 Date: 06/2022

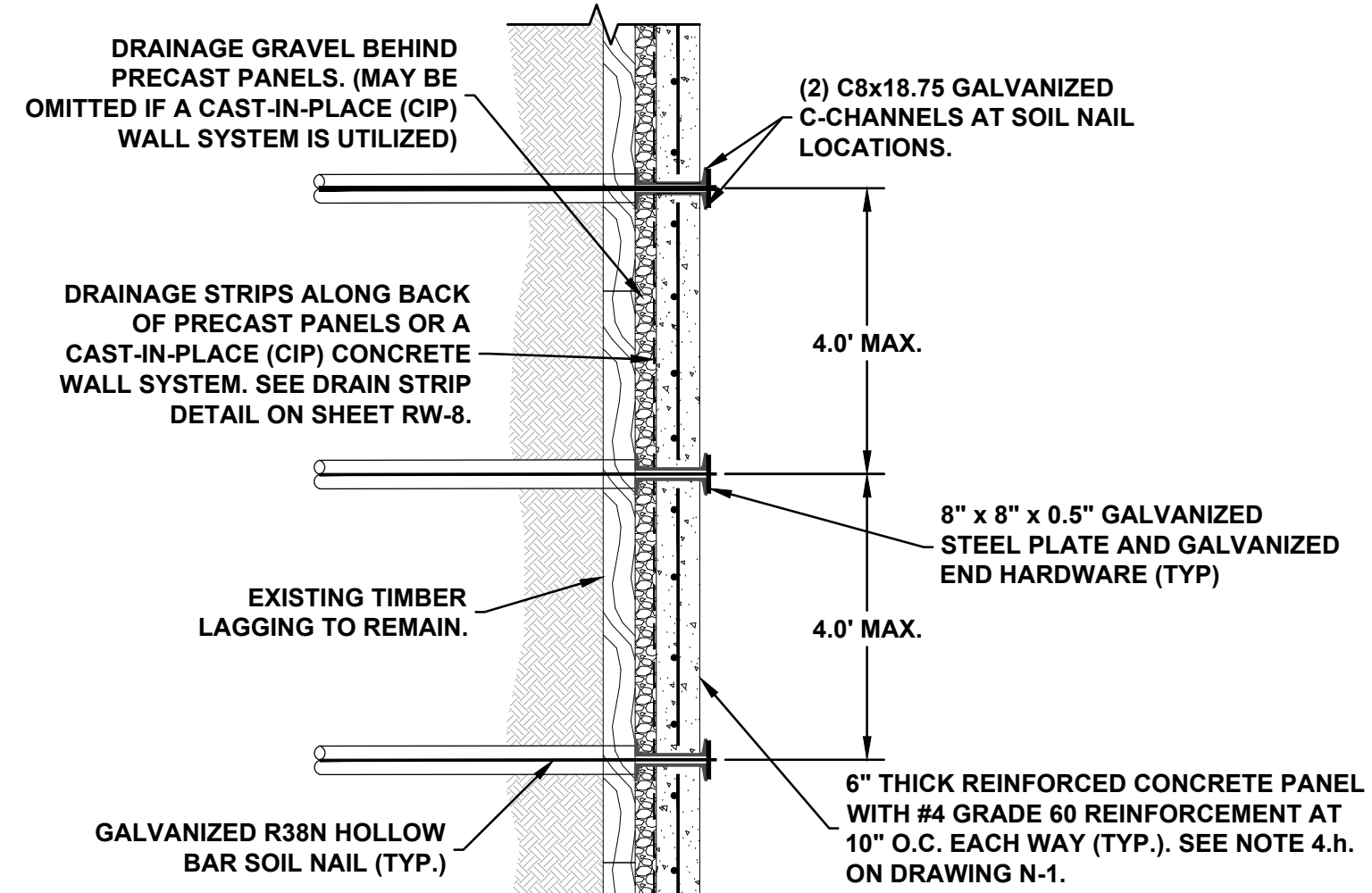


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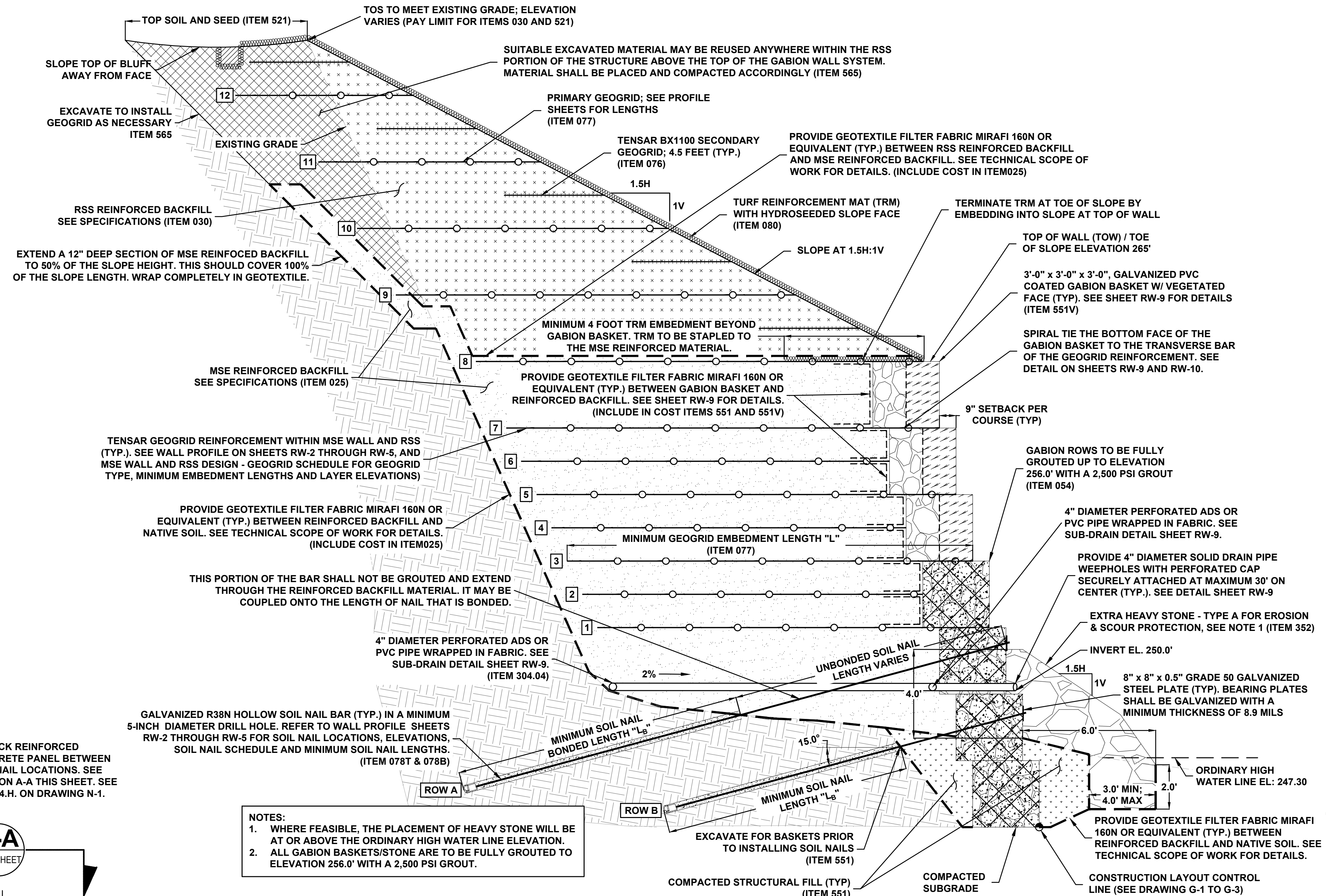


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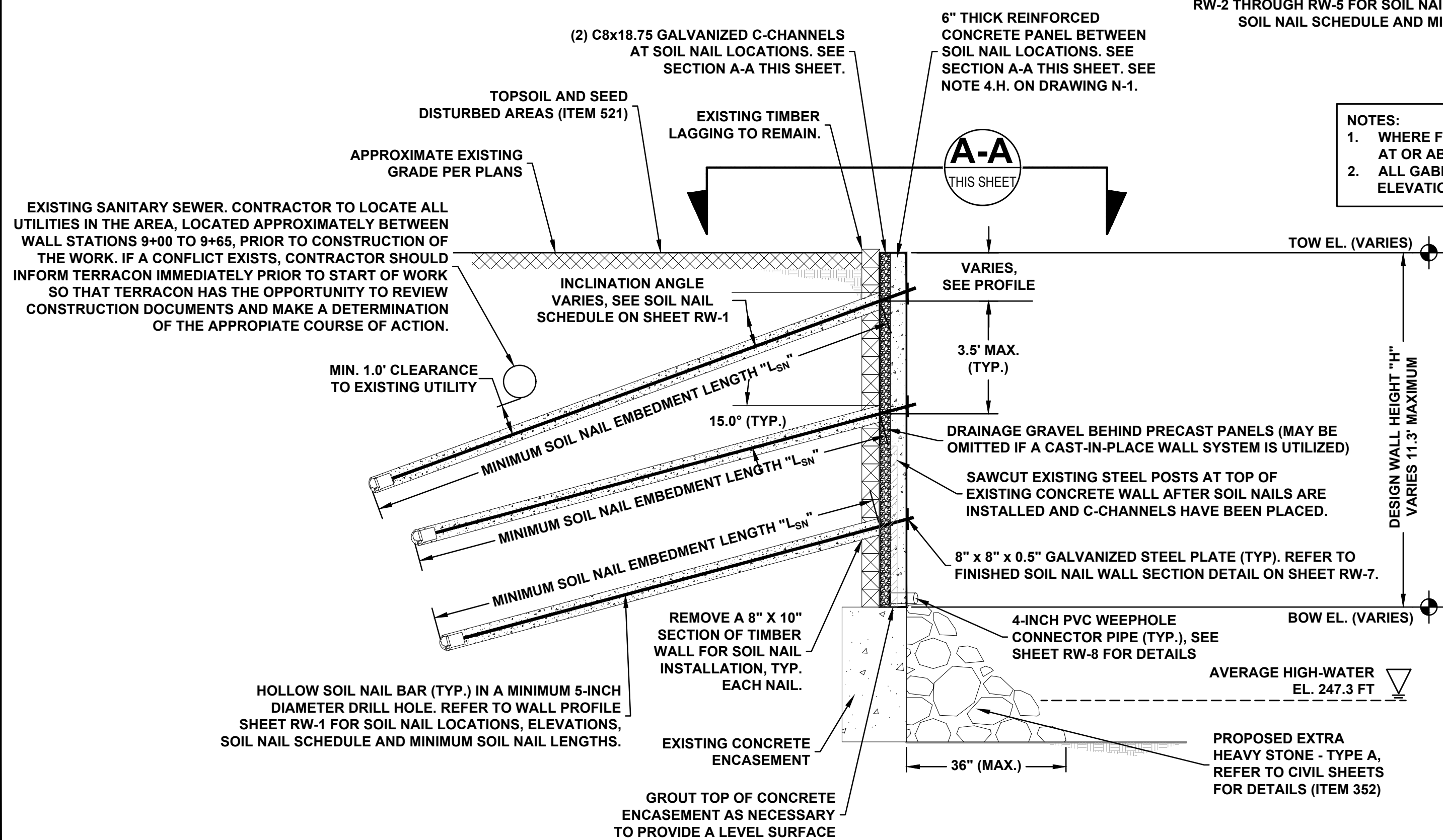
- NOTES:**
- IF SOIL NAIL LOCATIONS ARE IN CONFLICT WITH EXISTING STEEL POSTS, SHIFT SOIL NAIL LOCATIONS AS LONG AS THE MAXIMUM HORIZONTAL SPACING INDICATED ON THE PROFILE SHEET IS FOLLOWED.
 - DRAINAGE GRAVEL BEHIND PRECAST PANELS (MAY BE OMITTED IF A CAST-IN-PLACE (CIP) WALL SYSTEM IS UTILIZED) SHALL BE PLACED IN A 1-FOOT MAXIMUM LOOSE LAYER THICKNESS AND SHALL BE CONSOLIDATED BY ROD BEFORE THE NEXT LOOSE LAYER OF DRAINAGE GRAVEL IS PLACED.
 - IF PRECAST PANELS ARE USED, CONTRACTOR SHALL SHIM THE EDGES OF THE PRECAST PANELS TIGHT TO THE C-CHANNEL FLANGES.



SECTION A-A



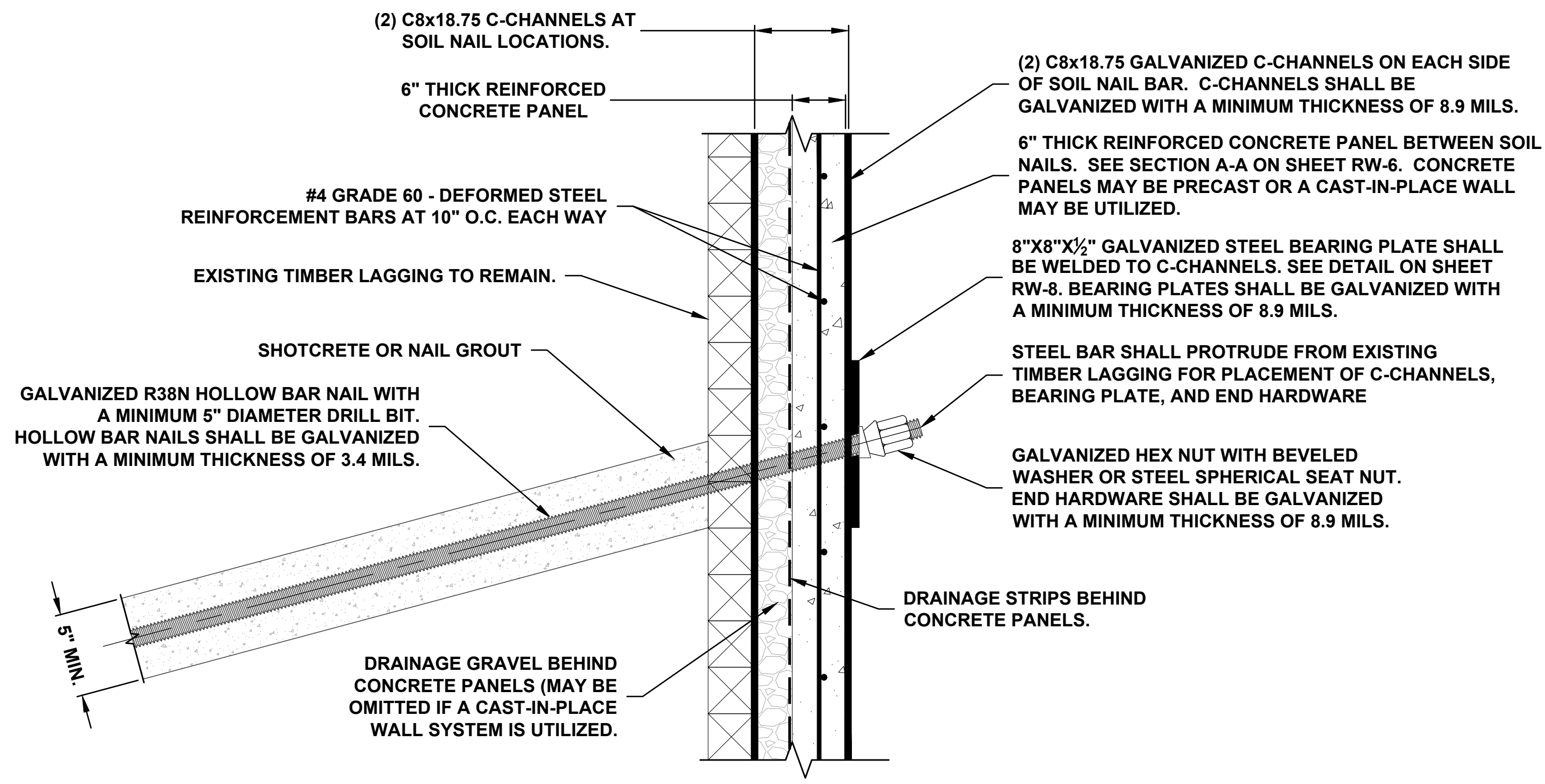
2 TYPICAL MSE (GABION BASKET) RETAINING WALL CROSS SECTION (NOT TO SCALE)



1 TYPICAL SOIL NAIL RETAINING WALL (ITEM 557) CROSS SECTION (NOT TO SCALE)

- NOTES:**
- WHERE FEASIBLE, THE PLACEMENT OF HEAVY STONE WILL BE AT OR ABOVE THE ORDINARY HIGH WATER LINE ELEVATION.
 - ALL GABION BASKETS/STONE ARE TO BE FULLY GROUTED TO ELEVATION 256.0' WITH A 2,500 PSI GROUT.

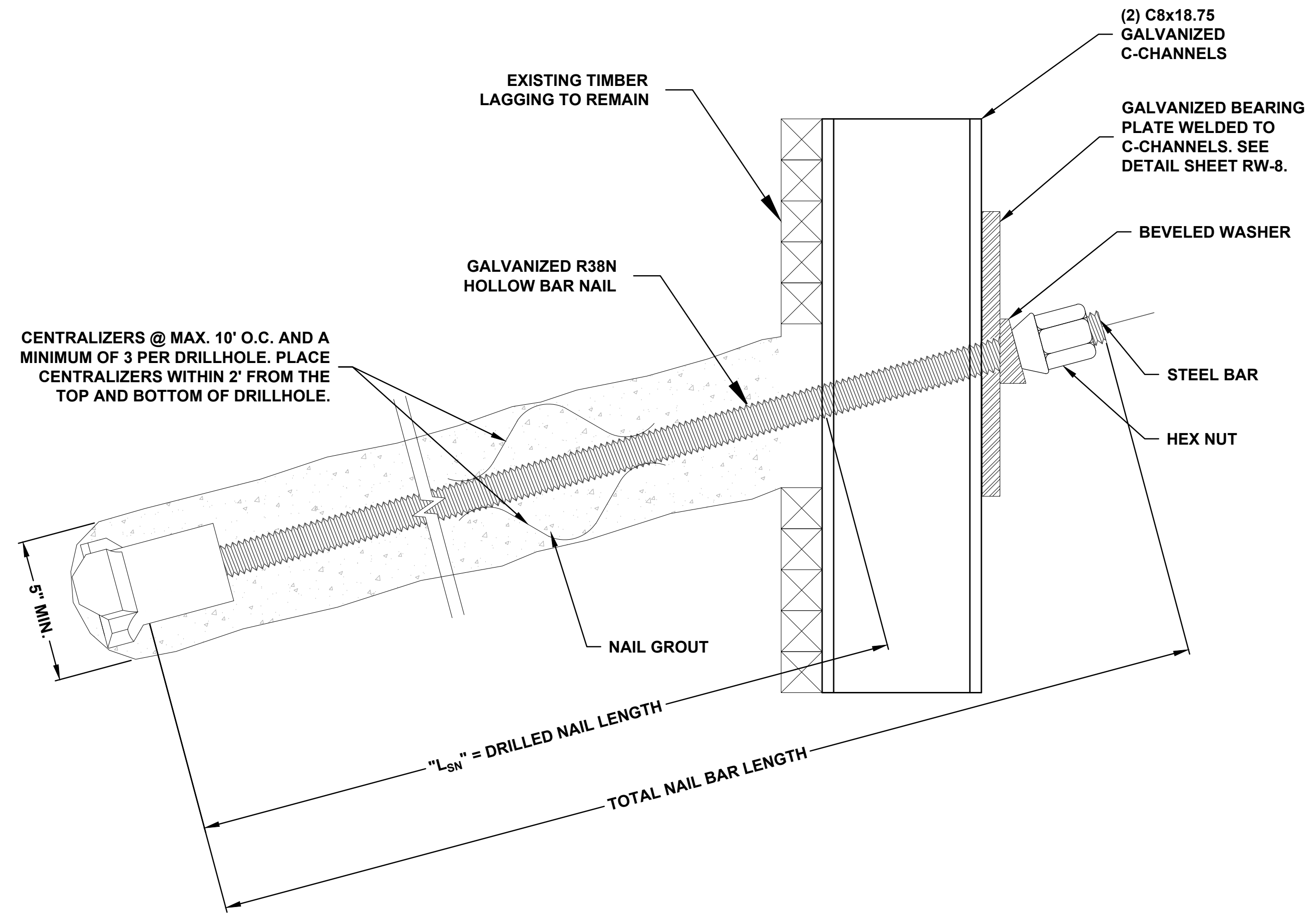
Project Title:		Blind Sodus Bay Western Bluff REDI Project	
Town of Wolcott, Wayne County, NY		Retaining Wall Cross Sections	
Drawn By:	Checked By:	Date:	Scale:
RFR	B.J.D.	06/2022	
Professional Engineer		Professional Engineer	
085888		085888	
MRB group		Terracon	
Engineering, Architecture & Surveying, D.P.C.		Consulting Engineers and Scientists	
The Culver Road Army, 145 Culver Road, Suite 100, Rochester, New York 14620		4885 South Ash Avenue, Suite H-4, Tempe, AZ 85282	
Phone: 585-381-1250		Tel: (480) 897-6200	
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Sheet No.	RW-6		Date
13	of 25		06/2022
Project No.	65215077		



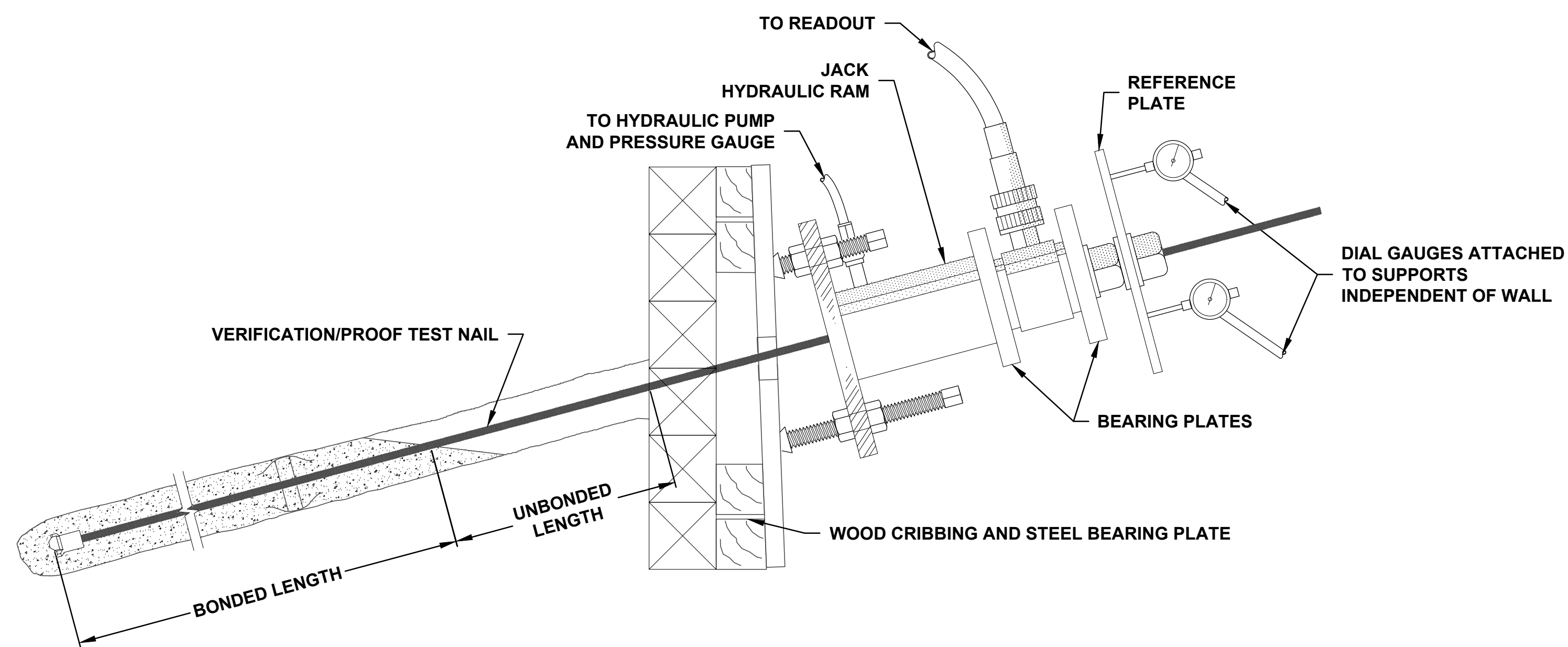
FINISHED SOIL NAIL WALL SECTION (N.T.S.)

NOTE: ALL REINFORCING STEEL BARS ARE TO BE GALVANIZED.

- NOTES:**
1. DRAINAGE GRAVEL SHALL BE PLACED IN A 1-FOOT MAXIMUM LOOSE LAYER THICKNESS AND SHALL BE CONSOLIDATED BY ROD BEFORE THE NEXT LOOSE LAYER OF DRAINAGE GRAVEL IS PLACED.
 2. IF PRECAST PANELS ARE USED, CONTRACTOR SHALL SHIM THE EDGES OF THE PRECAST PANELS TIGHT TO THE C-CHANNEL FLANGES.



PRODUCTION SOIL NAIL DETAIL (N.T.S.)



VERIFICATION/PROOF TEST SOIL NAIL DETAIL (N.T.S.)

Project Title:	BLIND SODUS BAY WESTERN BLUFF REDI PROJECT TOWN OF WOLCOTT, WAYNE COUNTY, NY
Drawn By:	RJR
Checked By:	B.J.D.
Scale:	
Date:	06/20/22
Revisions and Descriptions:	
By:	
Date:	
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Project Title:
BLIND SODUS BAY
WESTERN BLUFF REDI PROJECT
TOWN OF WOLCOTT, WAYNE COUNTY, NY
Drawing Title:
SOIL NAIL WALL CONSTRUCTION DETAILS

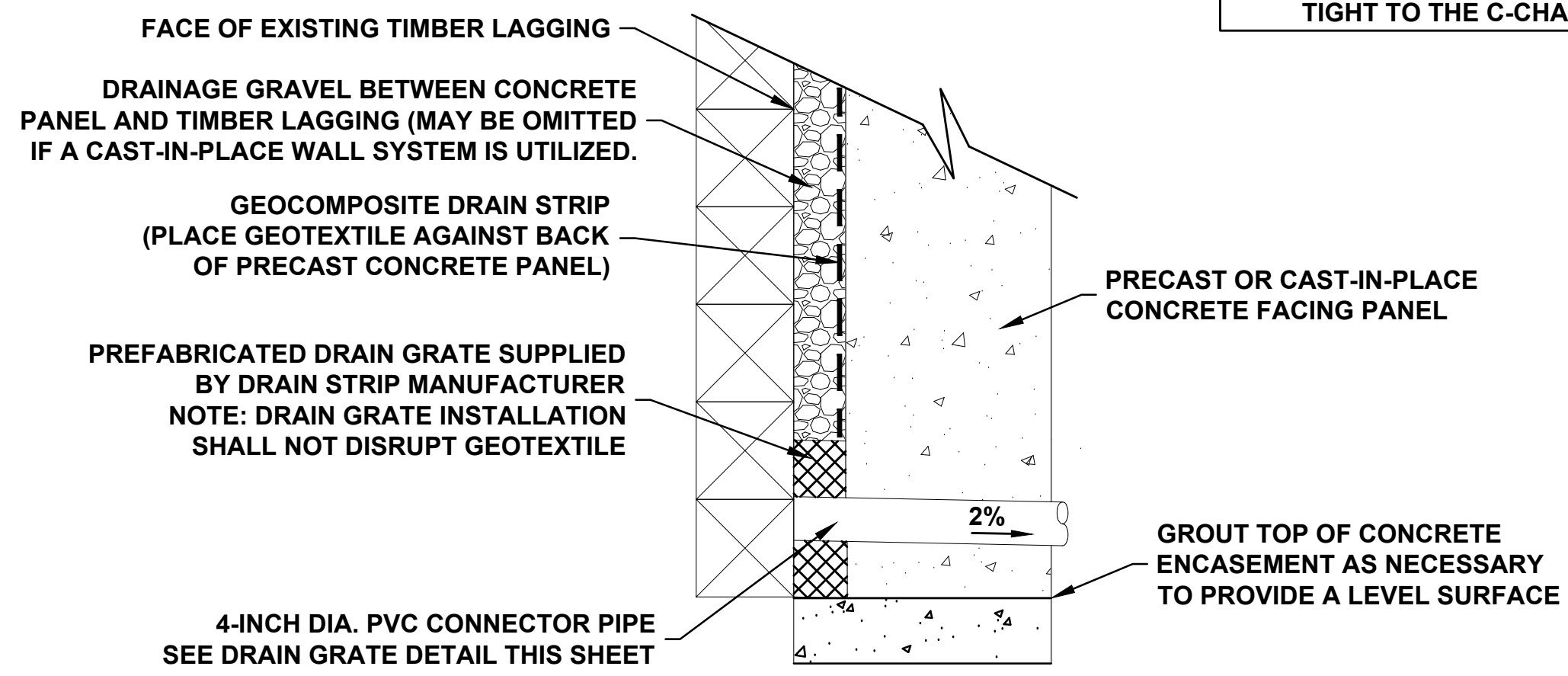


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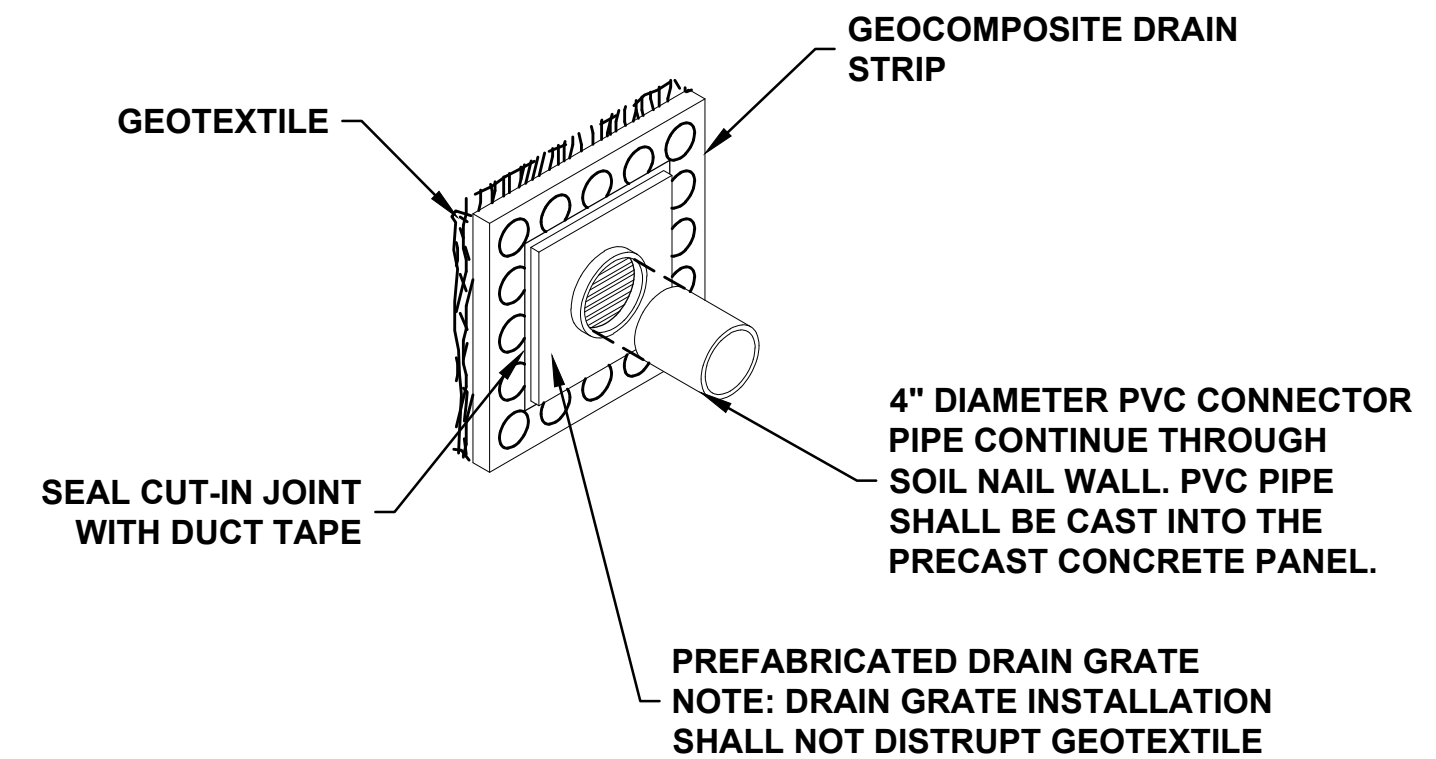
Sheet No. **RW-7**
14 of **25**
Project No. **65215077**



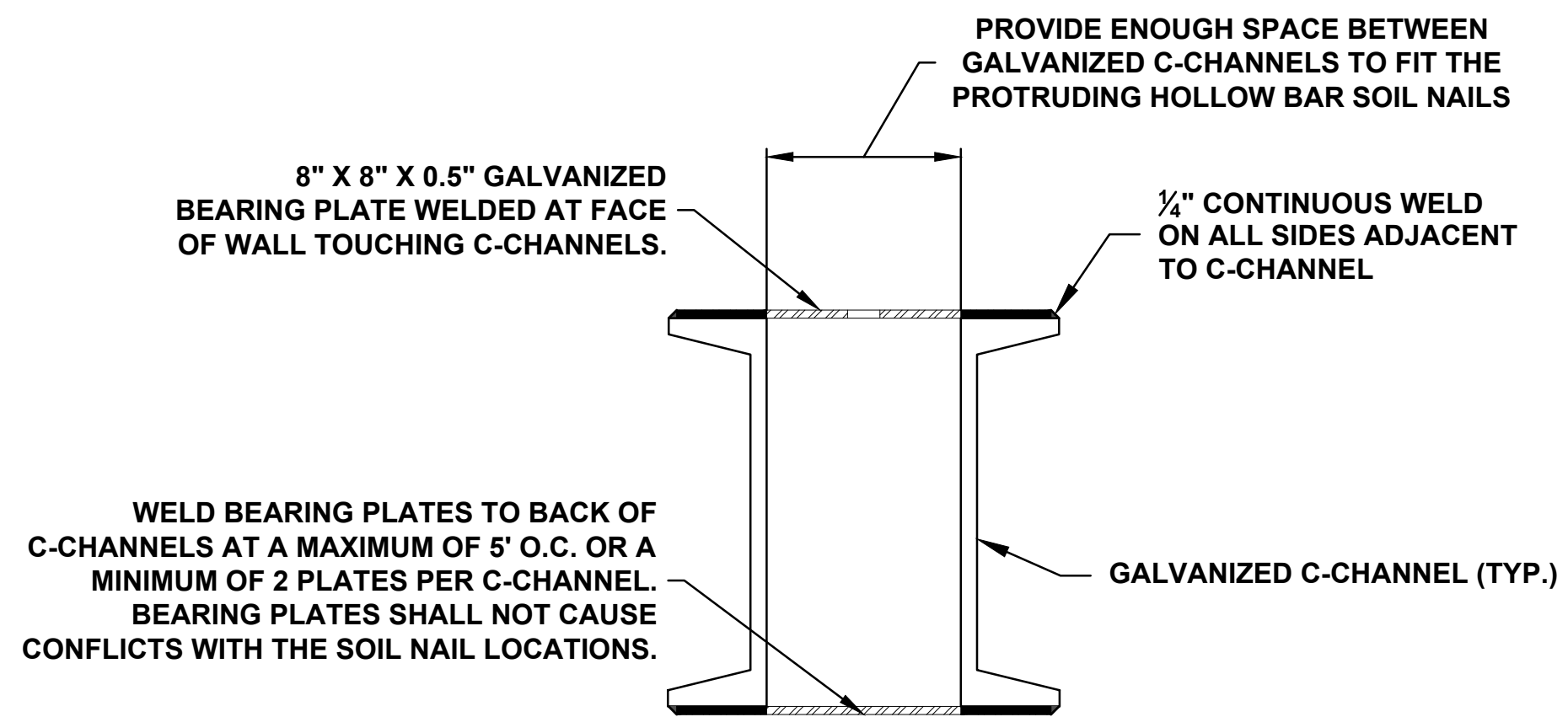
NOTES:
 1. DRAINAGE GRAVEL SHALL BE PLACED IN A 1-FOOT MAXIMUM LOOSE LAYER THICKNESS AND SHALL BE CONSOLIDATED BY ROD BEFORE THE NEXT LOOSE LAYER OF DRAINAGE GRAVEL IS PLACED.
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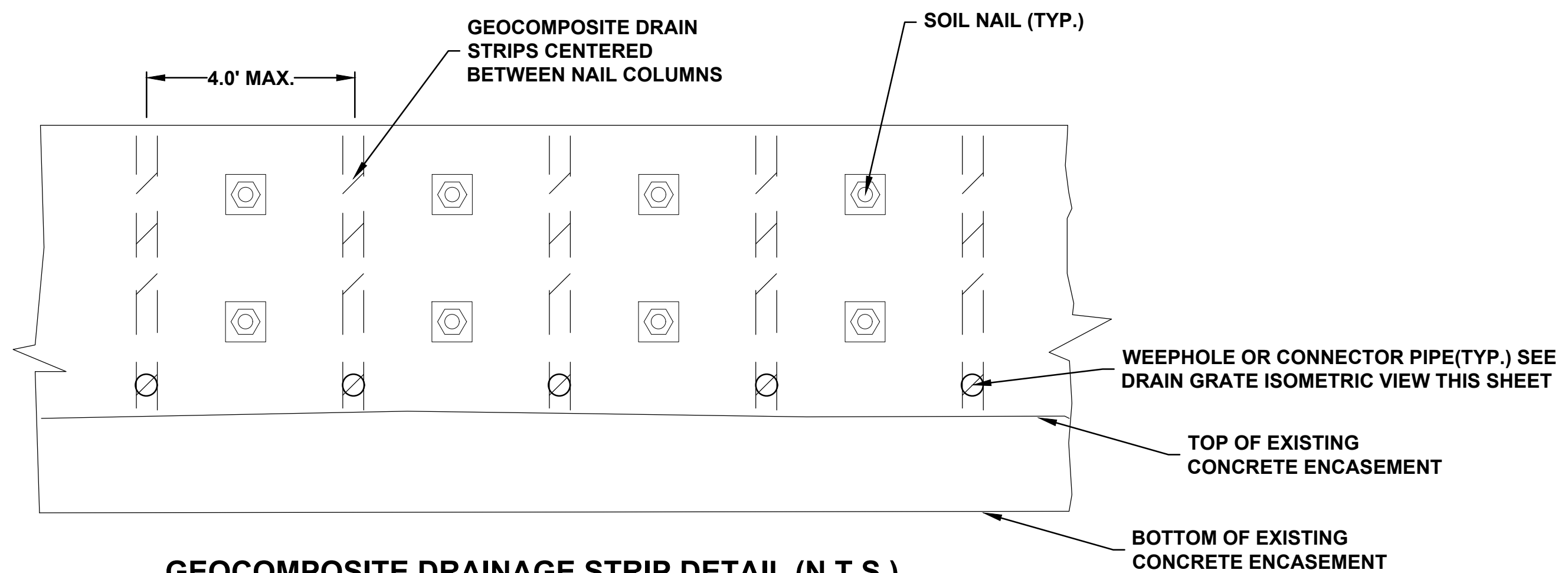
PVC CONNECTOR PIPE DETAIL (N.T.S.)



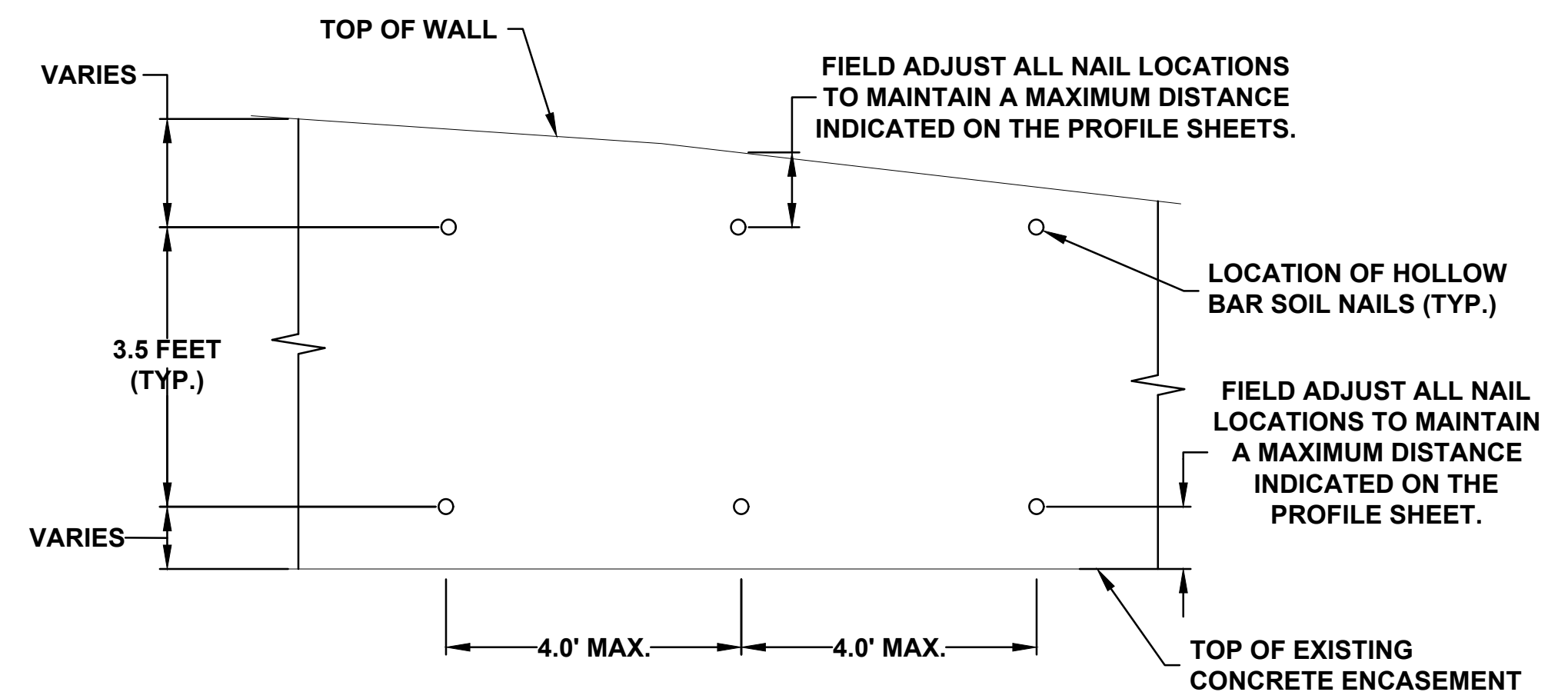
DRAIN GRATE ISOMETRIC VIEW (N.T.S.)



BEARING PLATE WELD DETAIL (N.T.S.)



GEOCOMPOSITE DRAINAGE STRIP DETAIL (N.T.S.)



FACE NAIL PATTERN DETAIL

No.	Revisions and Descriptions	By	Date

Project Title:
**BLIND SODUS BAY
 WESTERN BLUFF REDI PROJECT
 TOWN OF WOLCOTT, WAYNE COUNTY, NY**

Drawing Title:
SOIL NAIL WALL CONSTRUCTION DETAILS

Drawn By:
RJR

Checked By:
B.JD

Scale:

Date:
06/2022

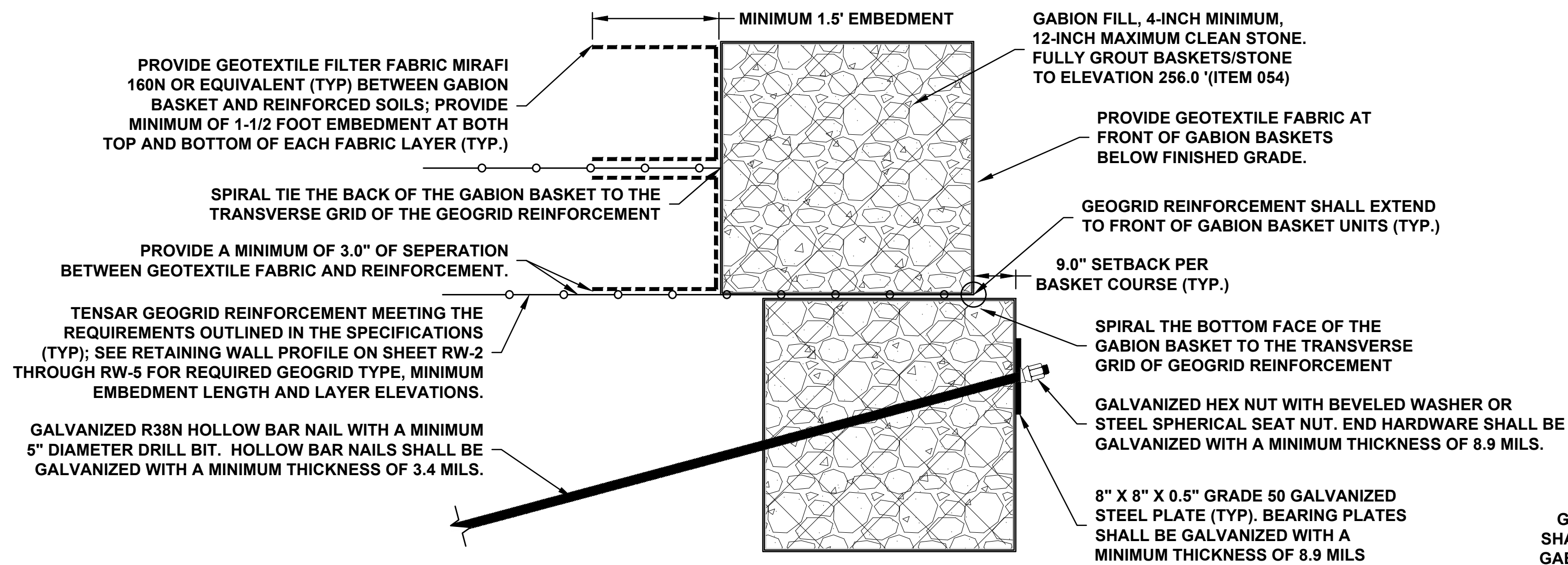


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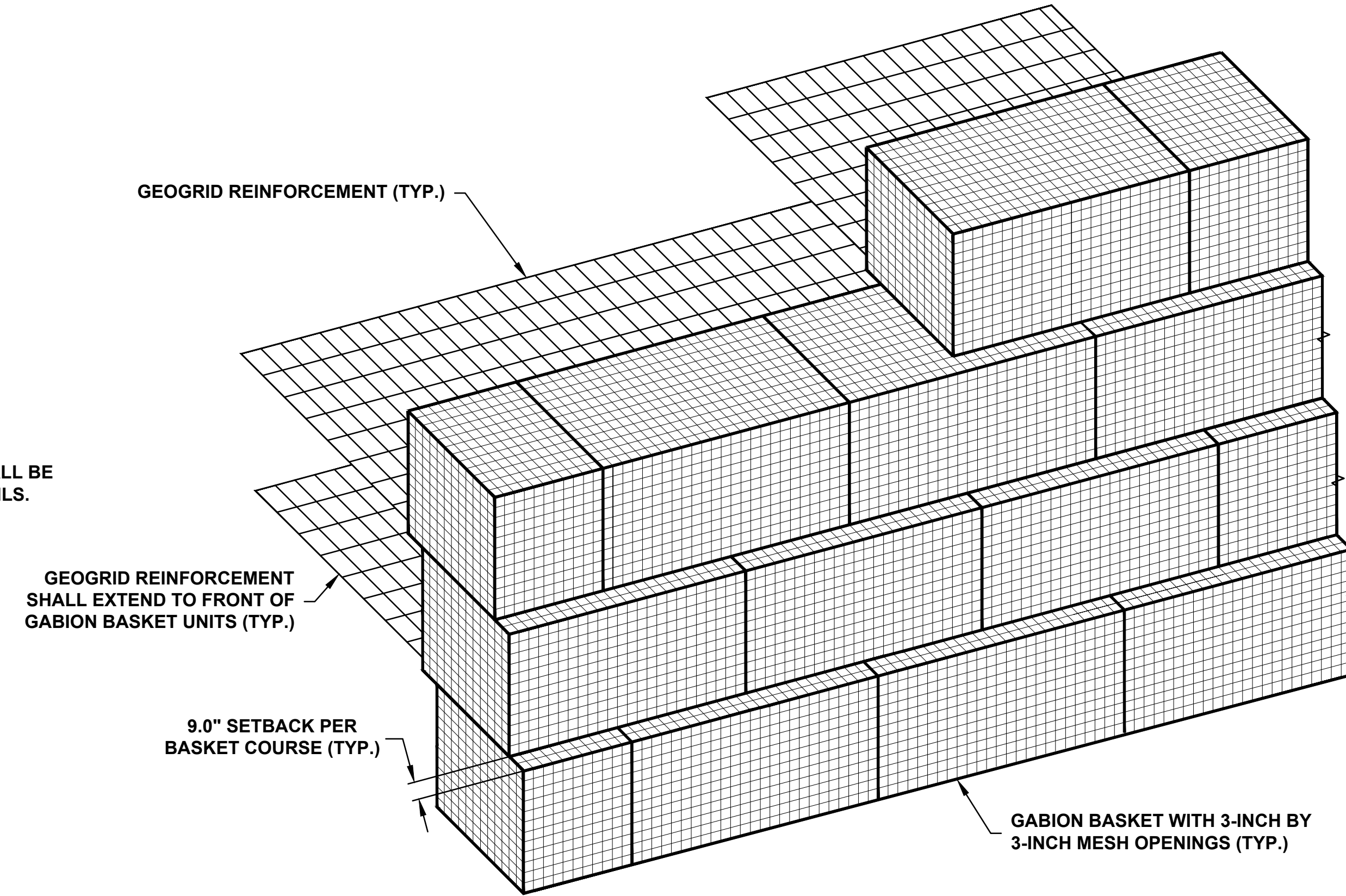
Sheet No. **RW-8**
 15 of 25
 Project No. **65215077**



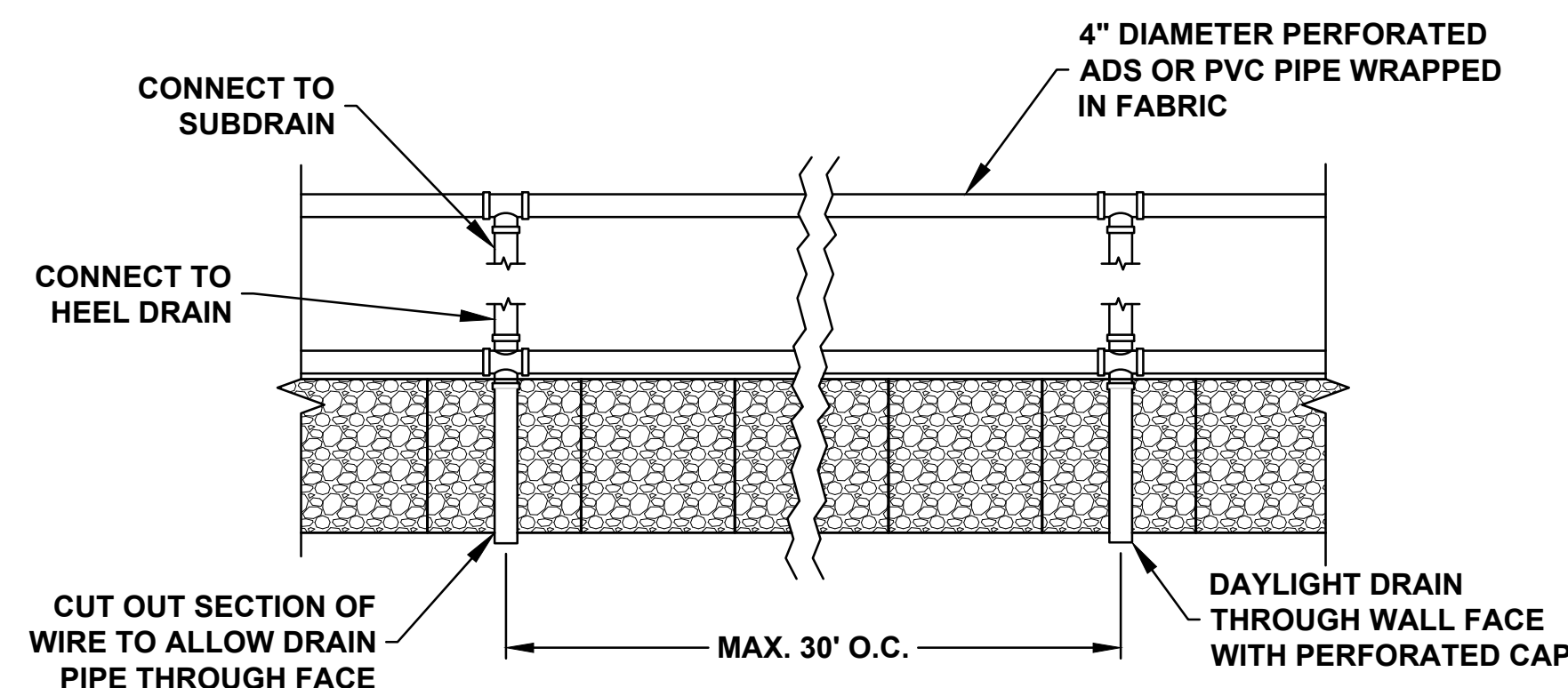
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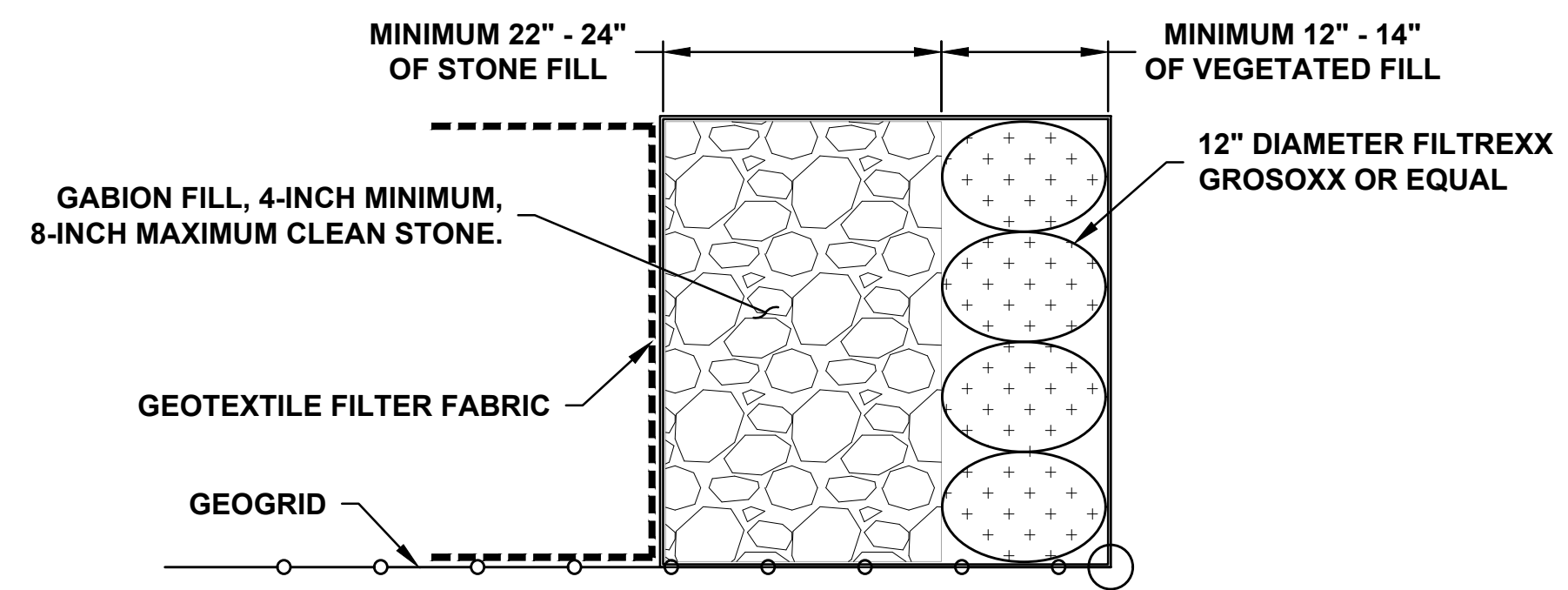
GABION BASKET AT FACE OF WALL BELOW ELEVATION 256.0' DETAIL (N.T.S.)



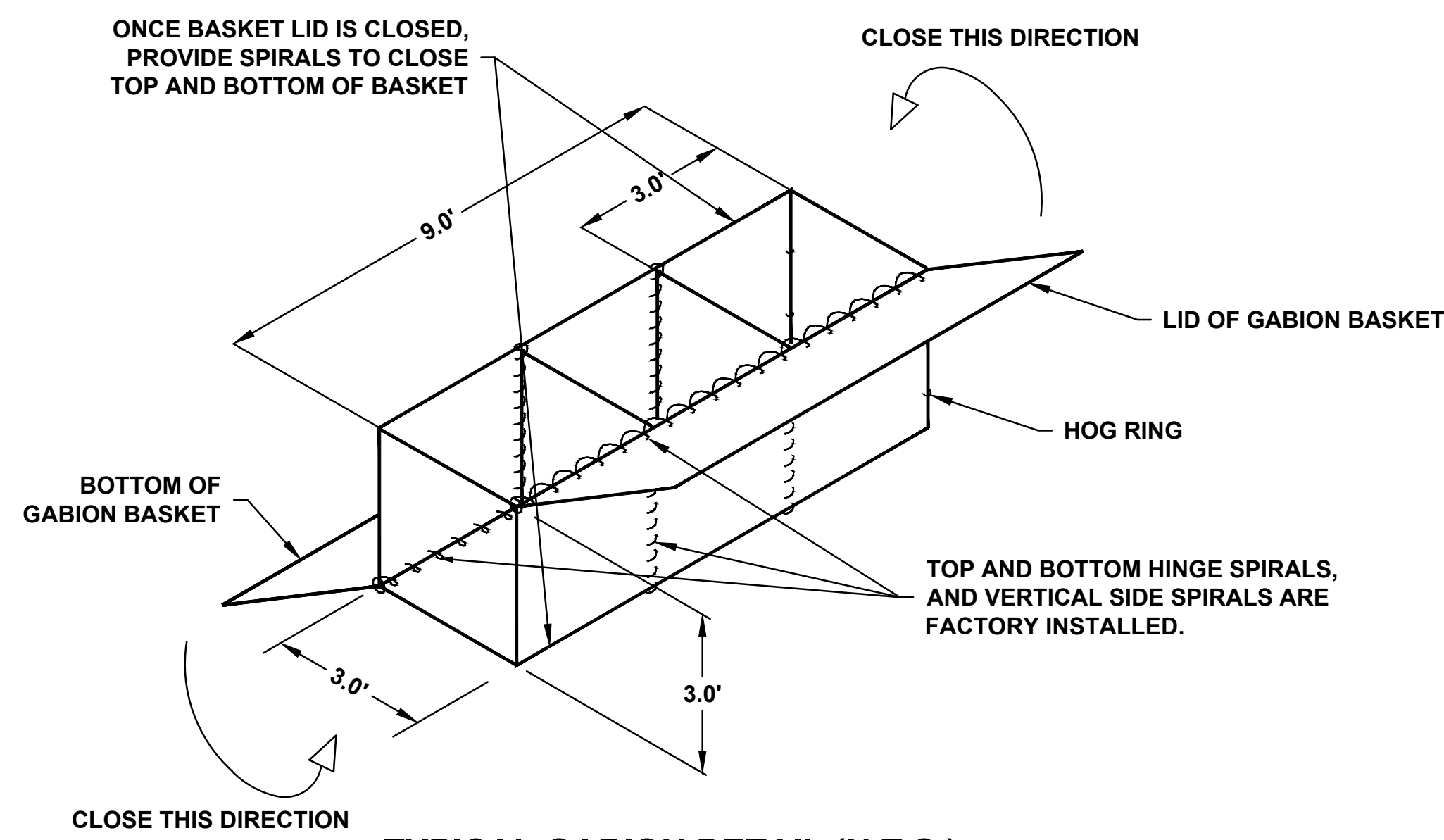
GABION BASKET ISOMETRIC VIEW (N.T.S.)



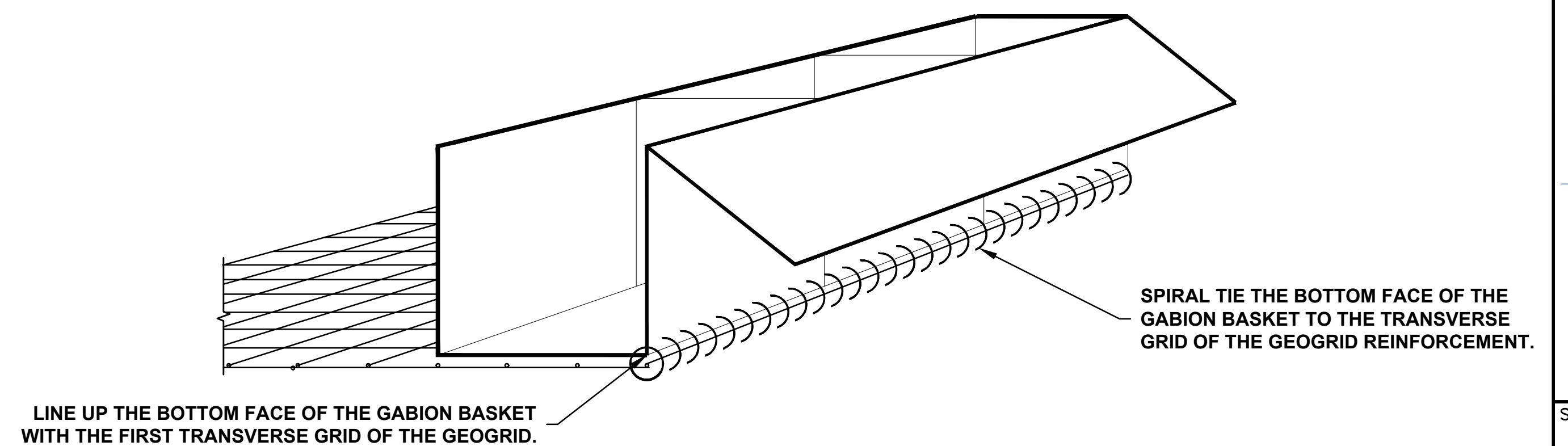
SUBDRAIN DETAIL (N.T.S.)



GABION BASKET WITH VEGETATED FACE (ABOVE ELEVATION 265.0') DETAIL (N.T.S.)



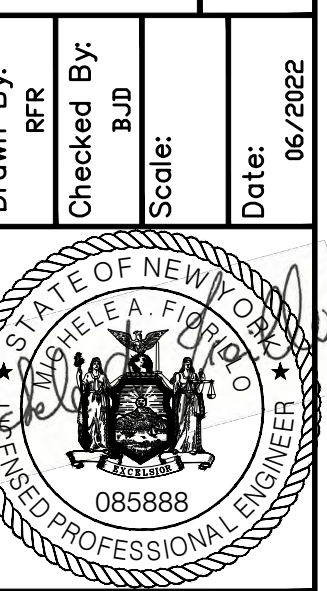
TYPICAL GABION DETAIL (N.T.S.)



GABION BASKET TO GEOGRID CONNECTION DETAIL (N.T.S.)

Project Title:	BLIND SODUS BAY WESTERN BLUFF REDI PROJECT TOWN OF WOLCOTT, WAYNE COUNTY, NY
Drawn By:	RFR
Checked By:	B.J.D.
Scale:	
Date:	06/2022
No.:	
Revisions and Descriptions	
By	
Date	
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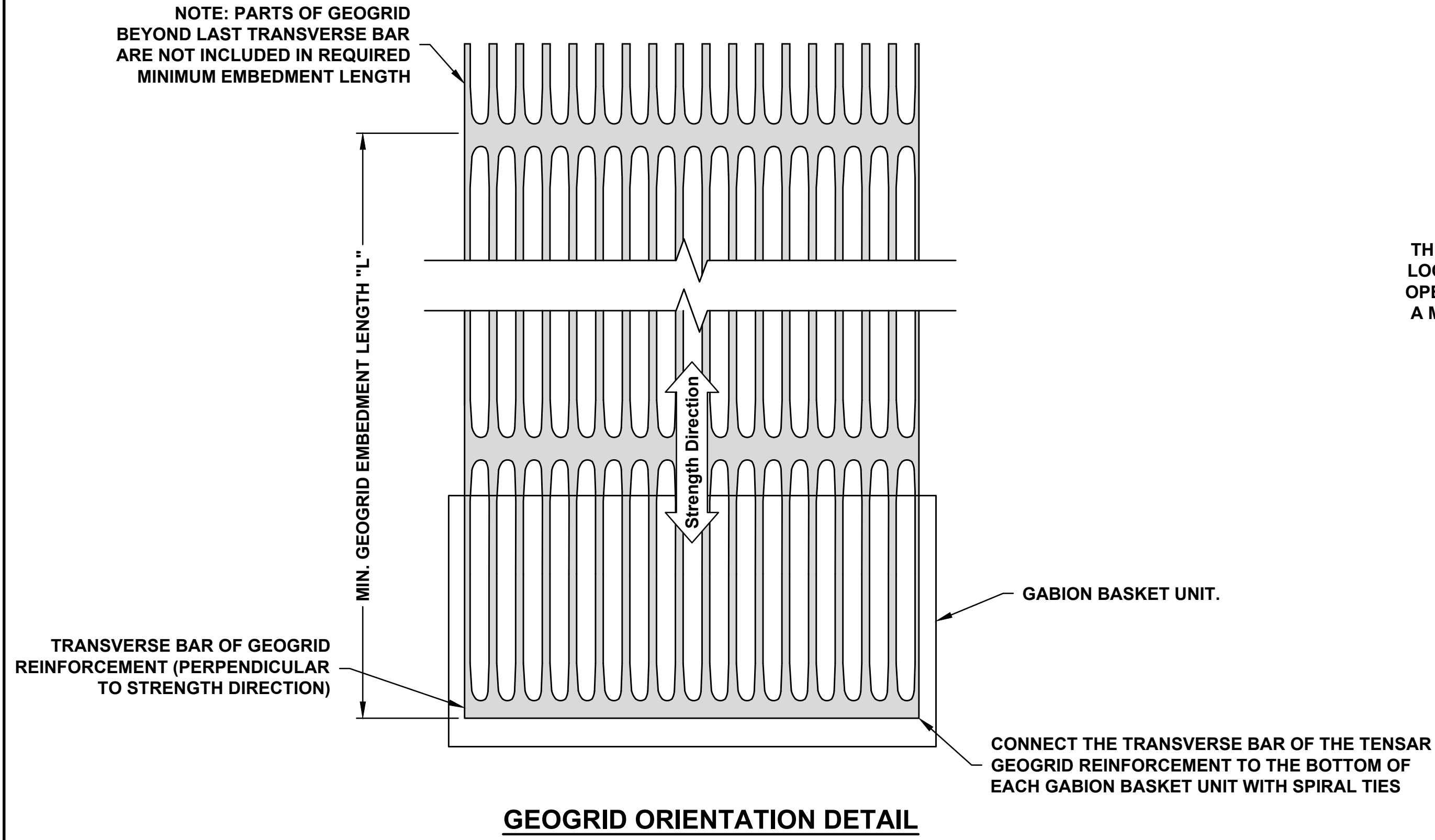
Project Title:
 BLIND SODUS BAY
 WESTERN BLUFF REDI PROJECT
 TOWN OF WOLCOTT, WAYNE COUNTY, NY
 Drawing Title:
 MSE GABION WALL CONSTRUCTION DETAILS



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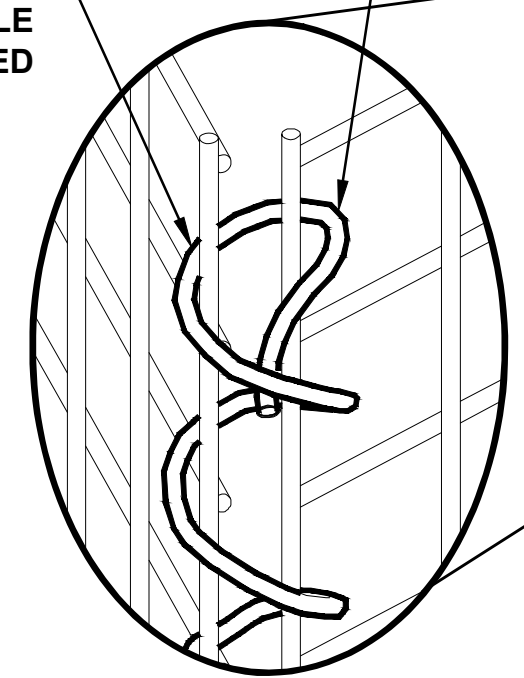
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 Project No. **65215077**





GEOGRID ORIENTATION DETAIL

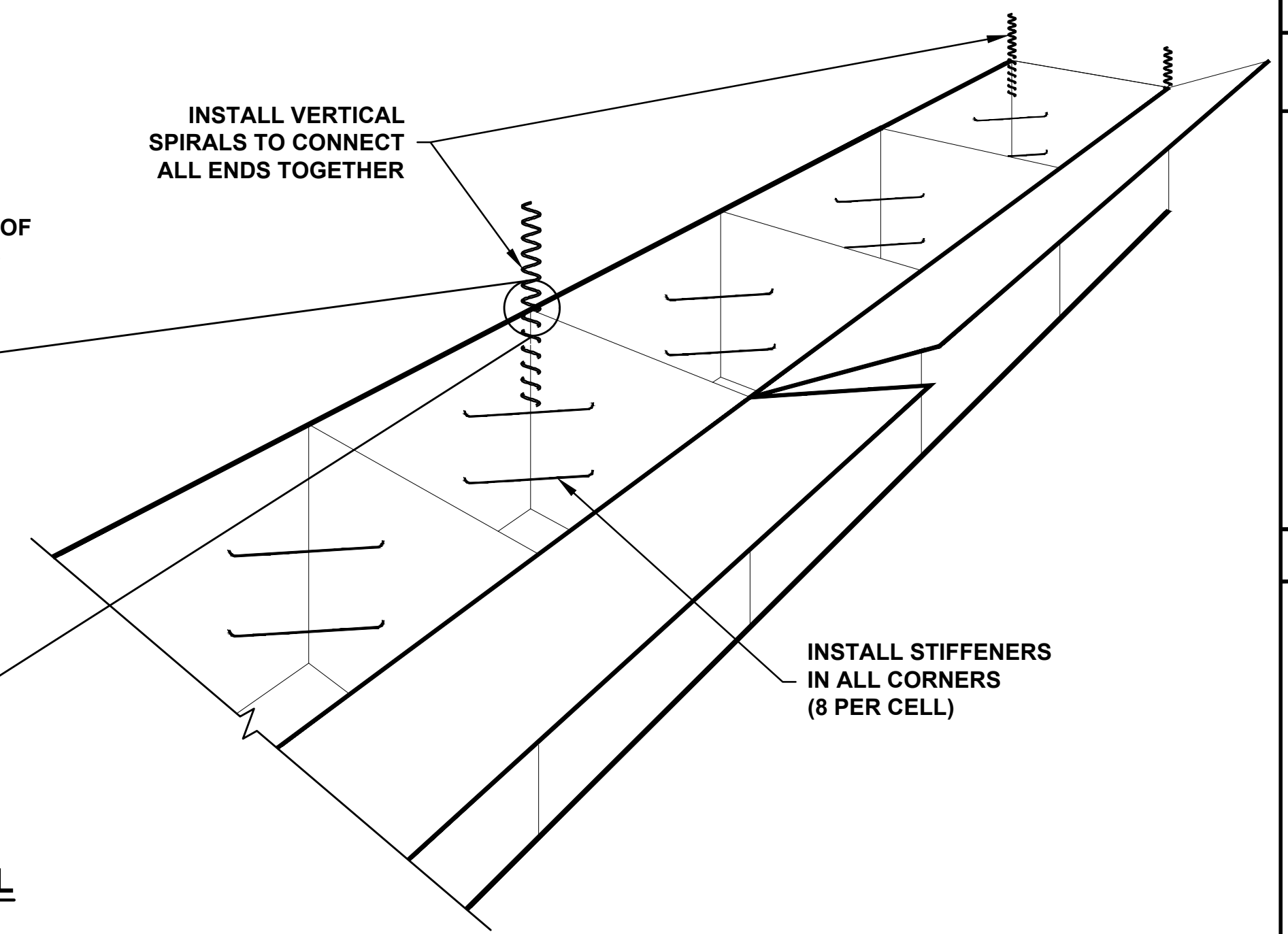
THE BINDING WIRE SHALL BE TIGHTLY LOOPED AROUND EVERY OTHER MESH OPENING ALONG THAT SEEMS IN SUCH A MANNER THAT SINGLE AND DOUBLE LOOPS ARE ALTERNATED



SPIRAL BINDING WIRE DETAIL

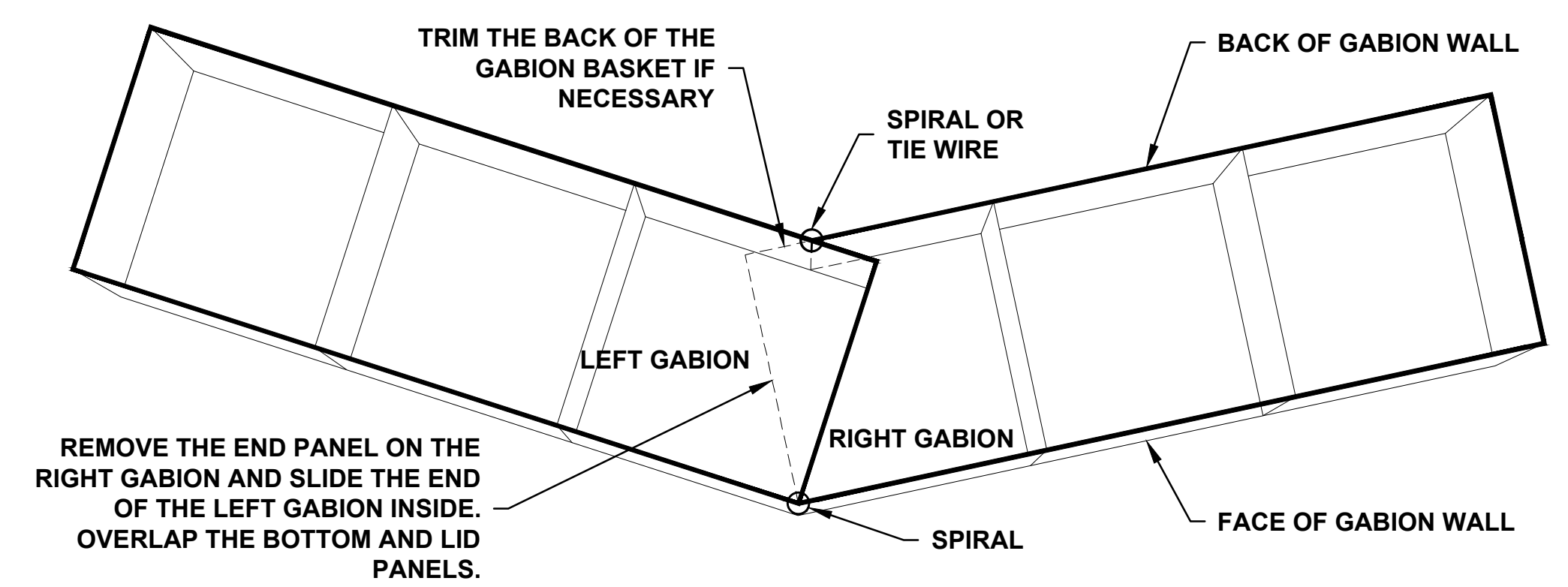
INSTALL VERTICAL SPIRALS TO CONNECT ALL ENDS TOGETHER

CRIMP ENDS OF ALL SPIRALS CLOSED



GABION BASKET CONNECTION DETAIL (N.T.S.)

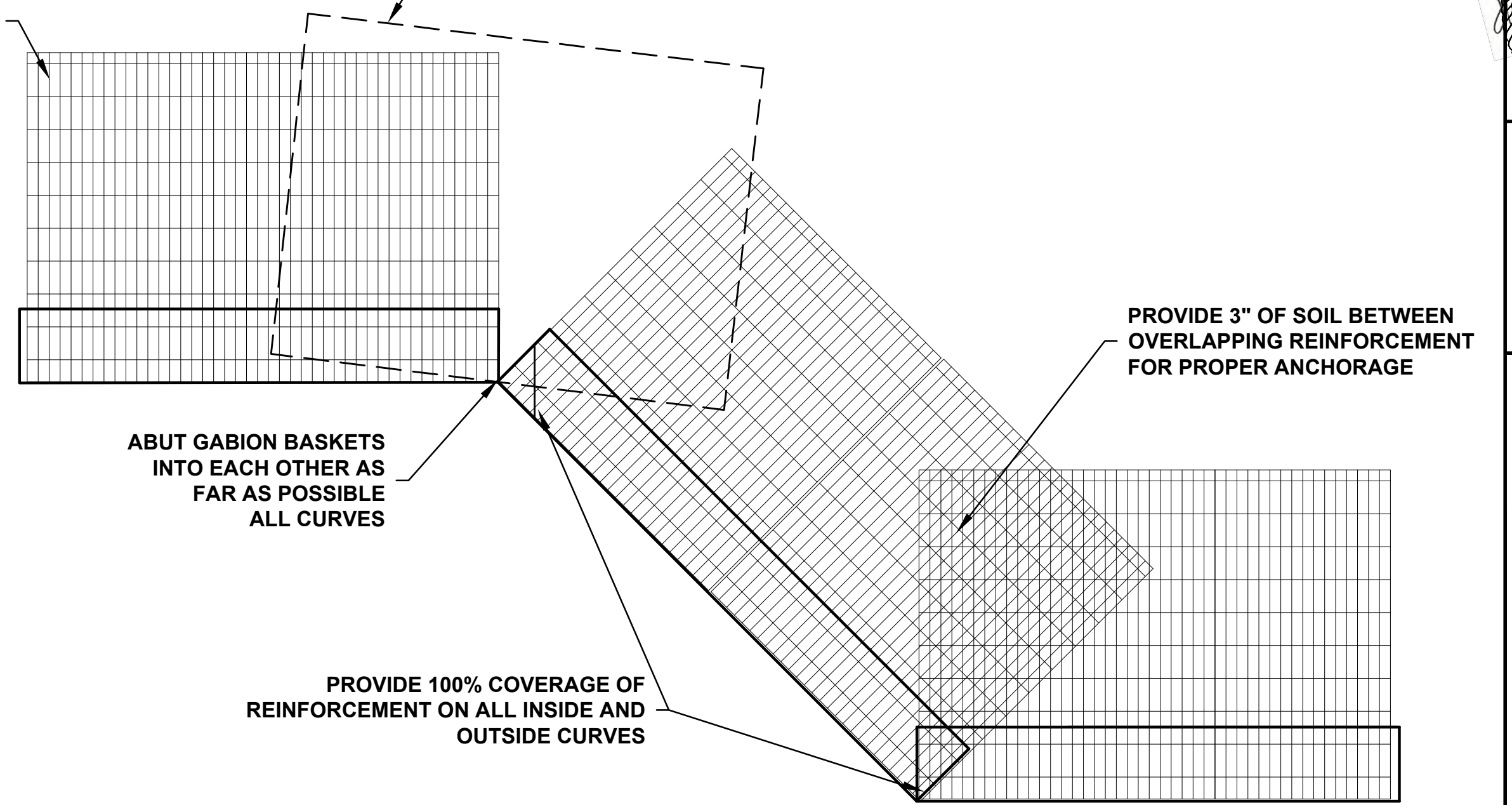
INSTALL STIFFENERS IN ALL CORNERS (8 PER CELL)



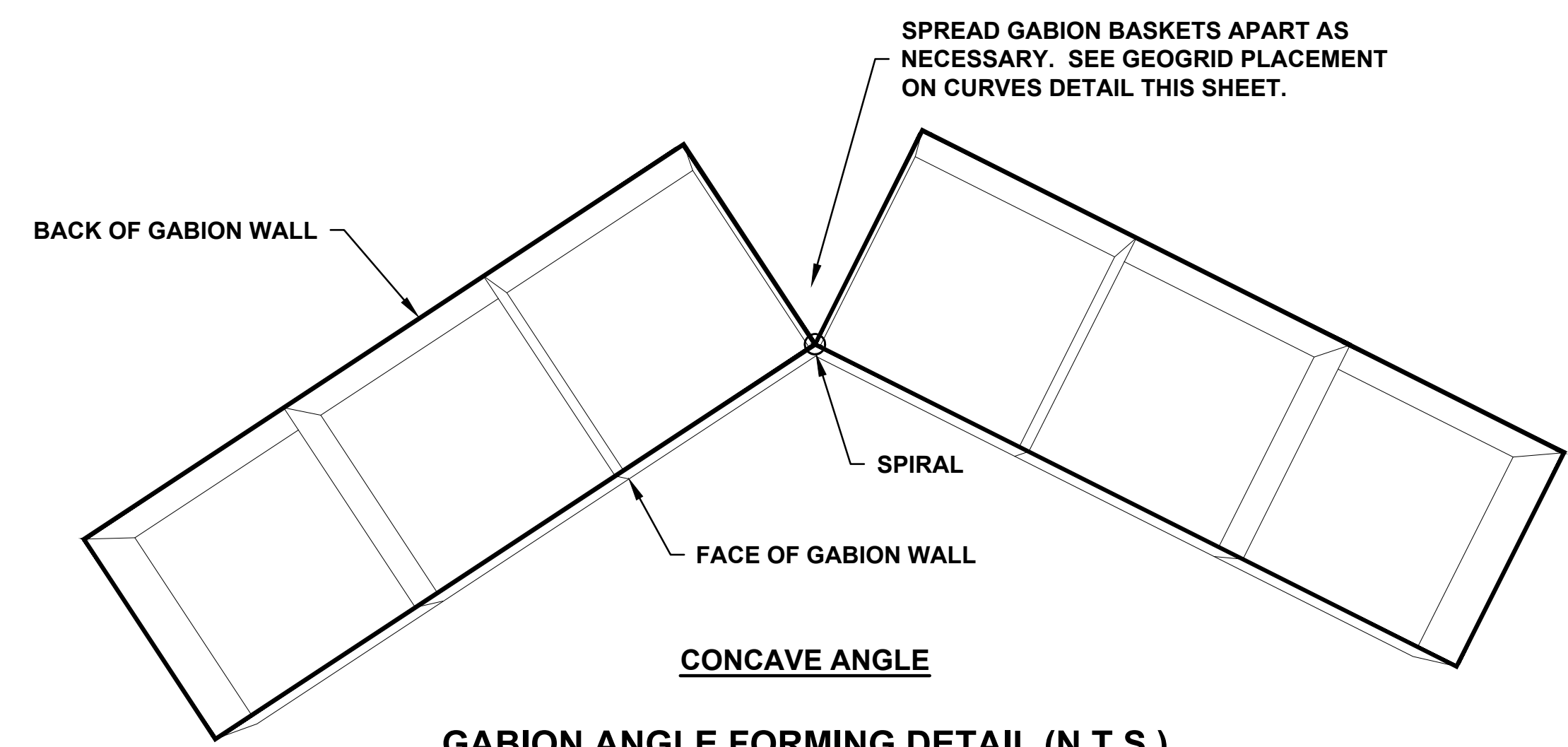
CONVEX ANGLE

ALTERNATE REINFORCEMENT PLACEMENT ON SUBSEQUENT REINFORCEMENT ELEVATIONS TO ELIMINATE GAPS ON PREVIOUS GABION BASKET COURSES.

TENSAR GEOGRID REINFORCEMENT MEETING THE REQUIREMENTS OUTLINED IN THE SPECIFICATIONS (TYP.)



REINFORCEMENT PLACEMENT ON GABION BASKETS, INSIDE AND OUTSIDE CURVES



CONCAVE ANGLE

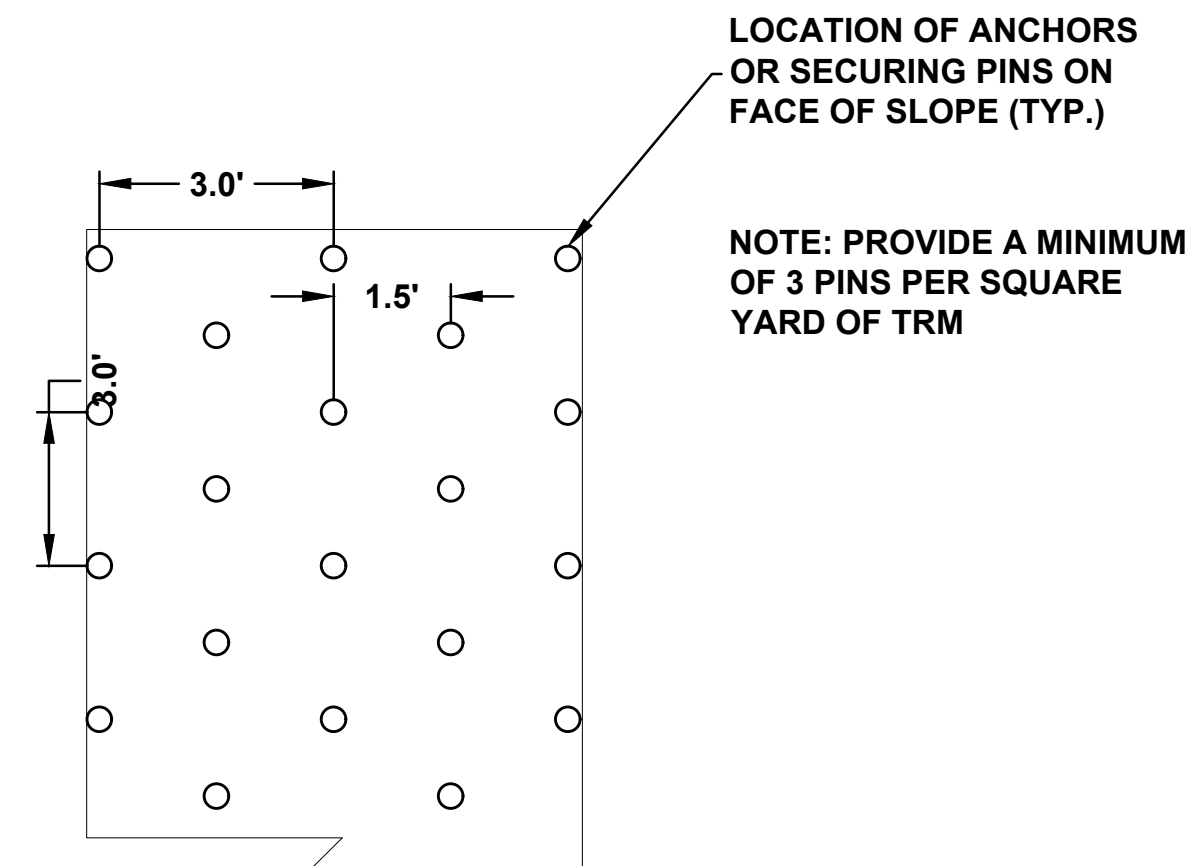
GABION ANGLE FORMING DETAIL (N.T.S.)

Project Title:		BLIND SODUS BAY	
Project Title:		WESTERN BLUFF REDDI PROJECT	
Project Title:		TOWN OF WOLCOTT, WAYNE COUNTY, NY	
Drawing Title:		MSE GABION WALL CONSTRUCTION DETAILS	
Drawn By:	Checked By:	No.:	Revisions and Descriptions
RFR	B.JD		
Scale:	Date:	By:	Date:
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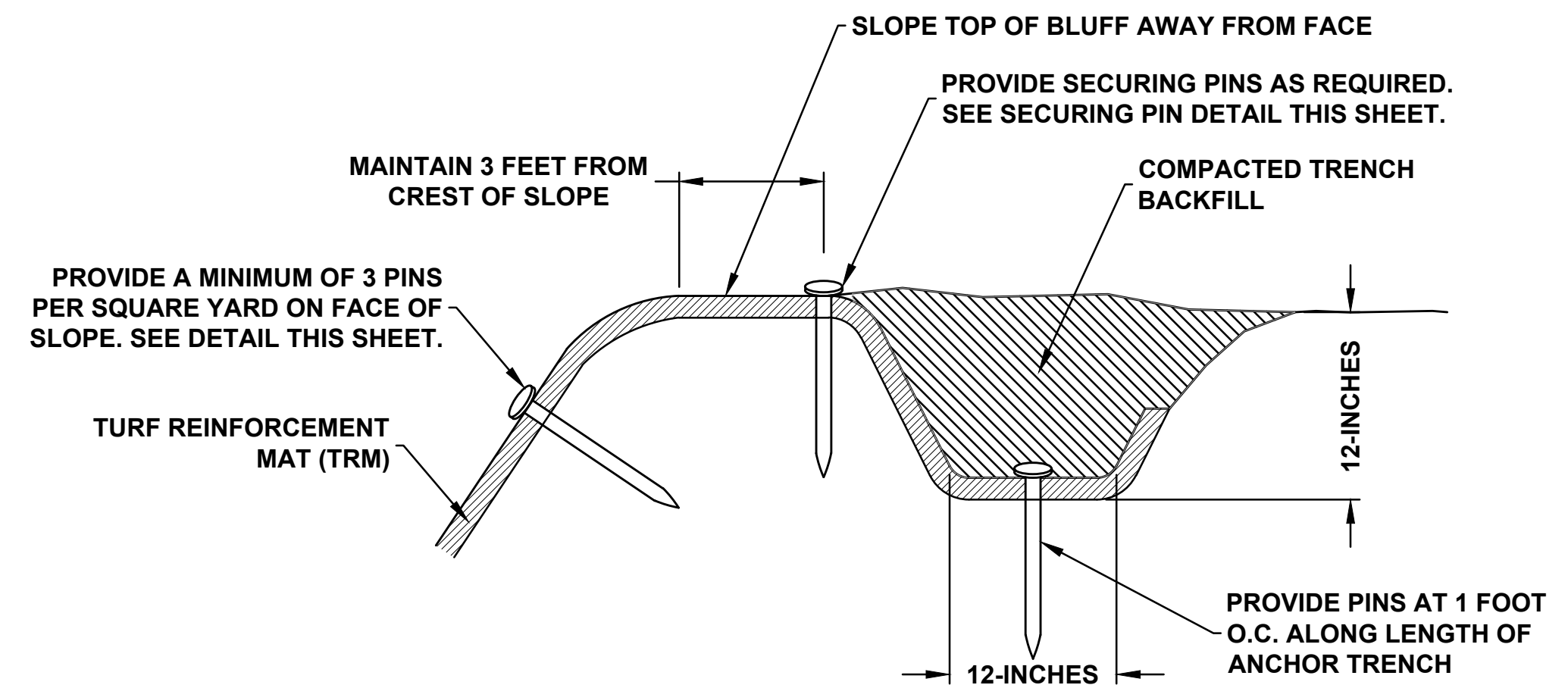


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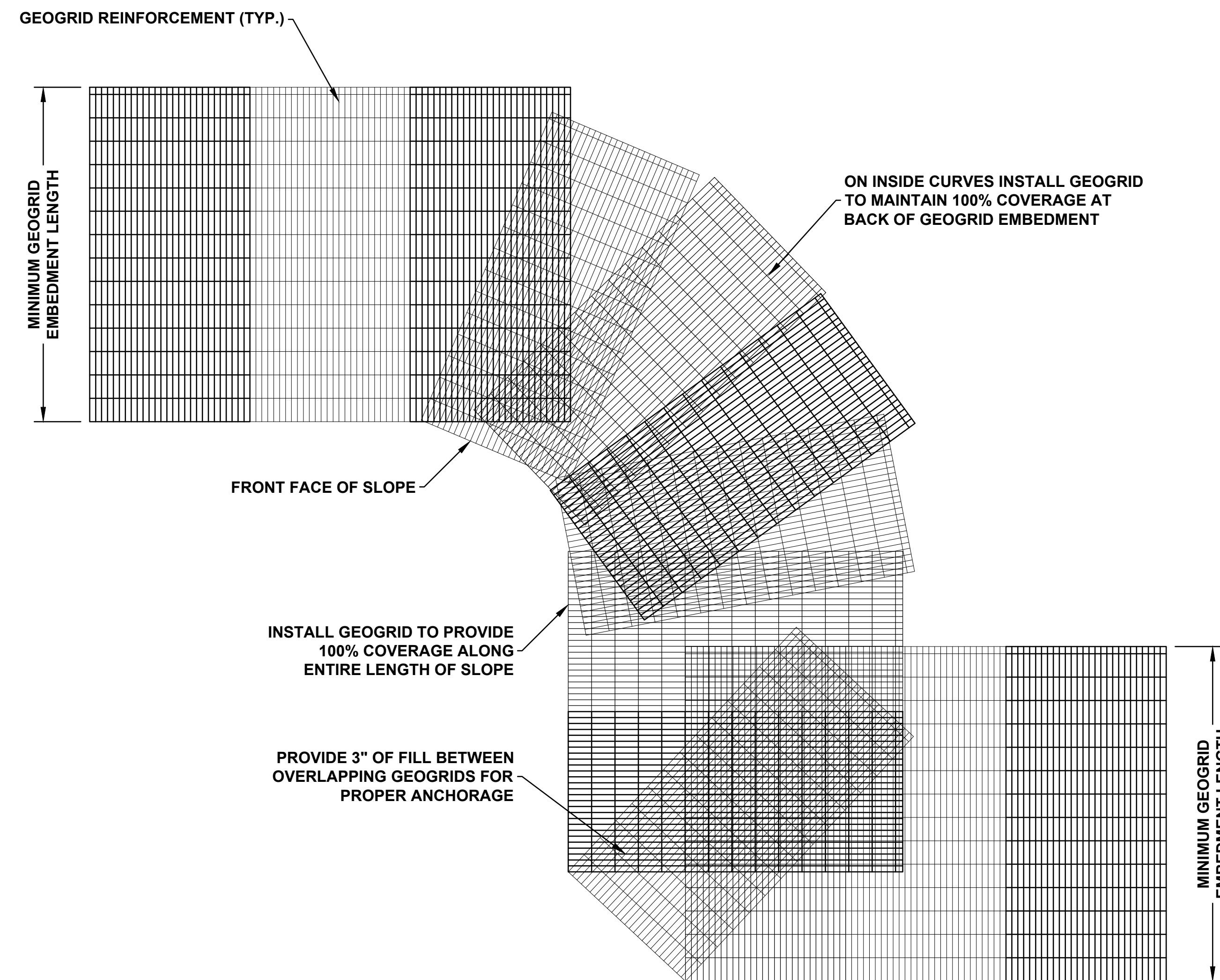




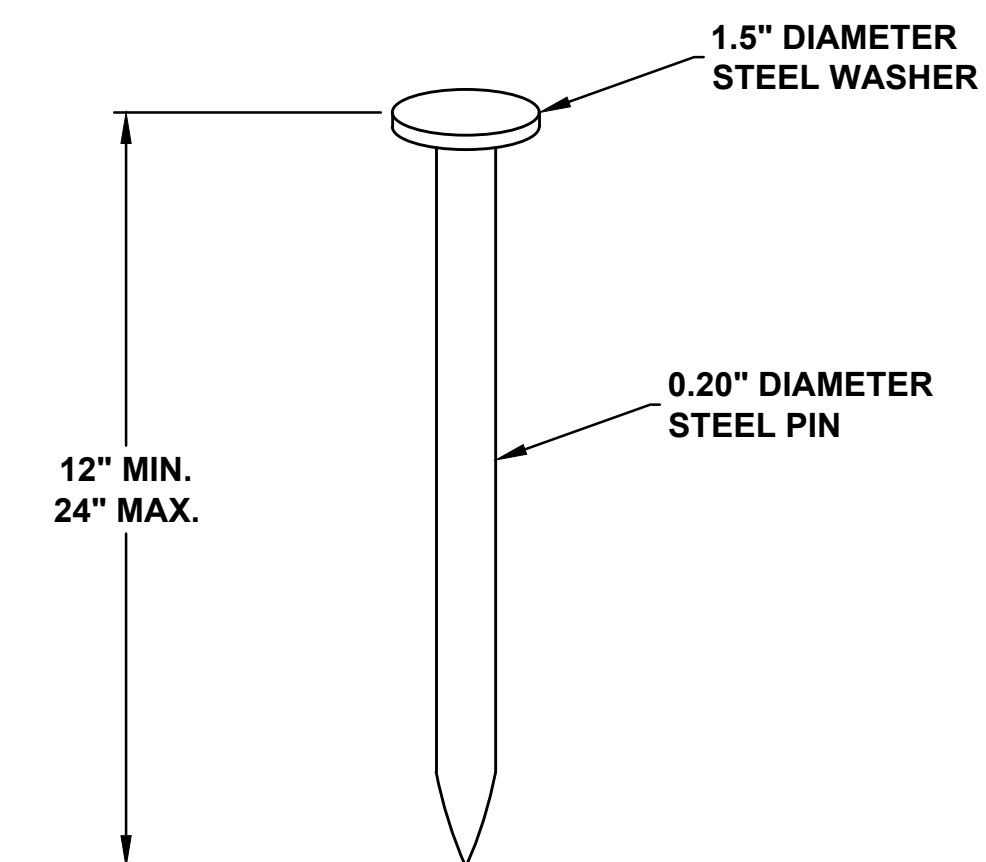
SLOPE SECURING PIN PATTERN DETAIL FOR TURF REINFORCEMENT MAT (TRM)



ANCHOR TRENCH DETAIL AT CREST OF SLOPE FOR TURF REINFORCEMENT MAT (TRM)



GEOGRID PLACEMENT ON CURVES FOR REINFORCED SLOPES (N.T.S)



SECURING PIN DETAIL

No.	Revisions and Descriptions	By	Date

Project Title:
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 TOWN OF WOLCOTT, WAYNE COUNTY, NY**
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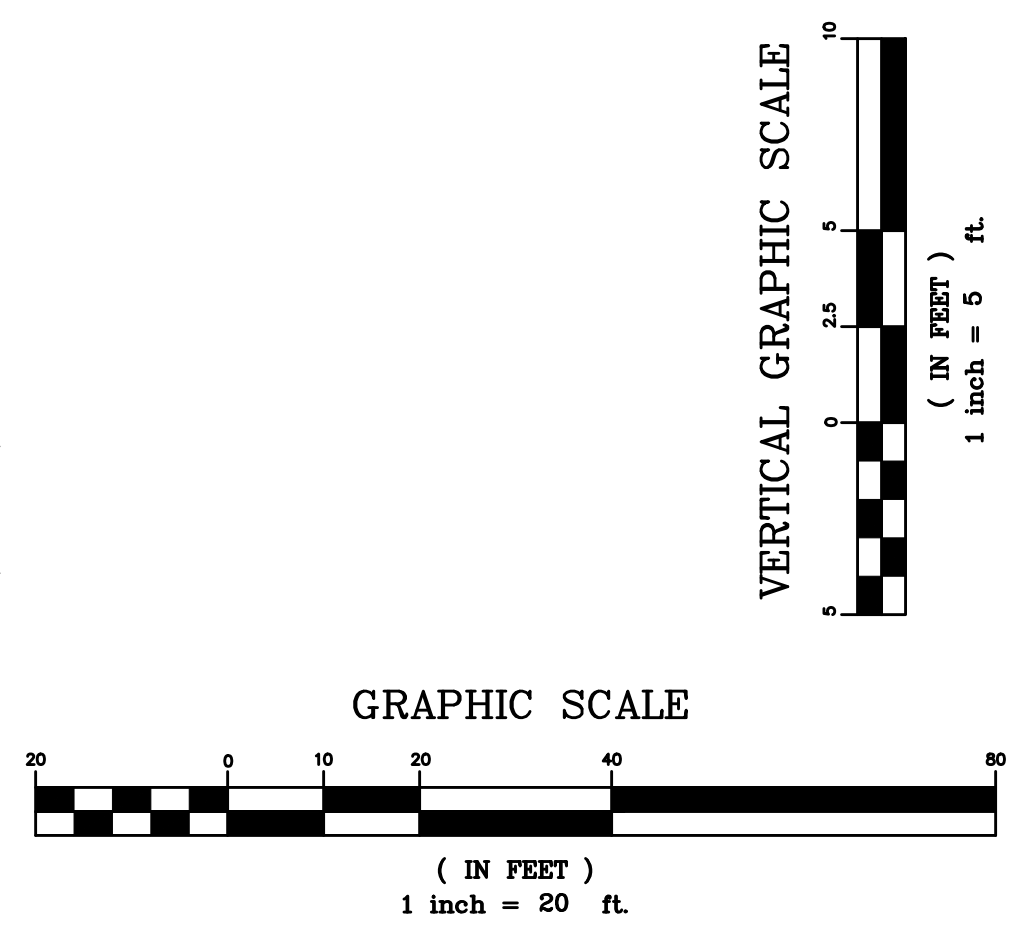
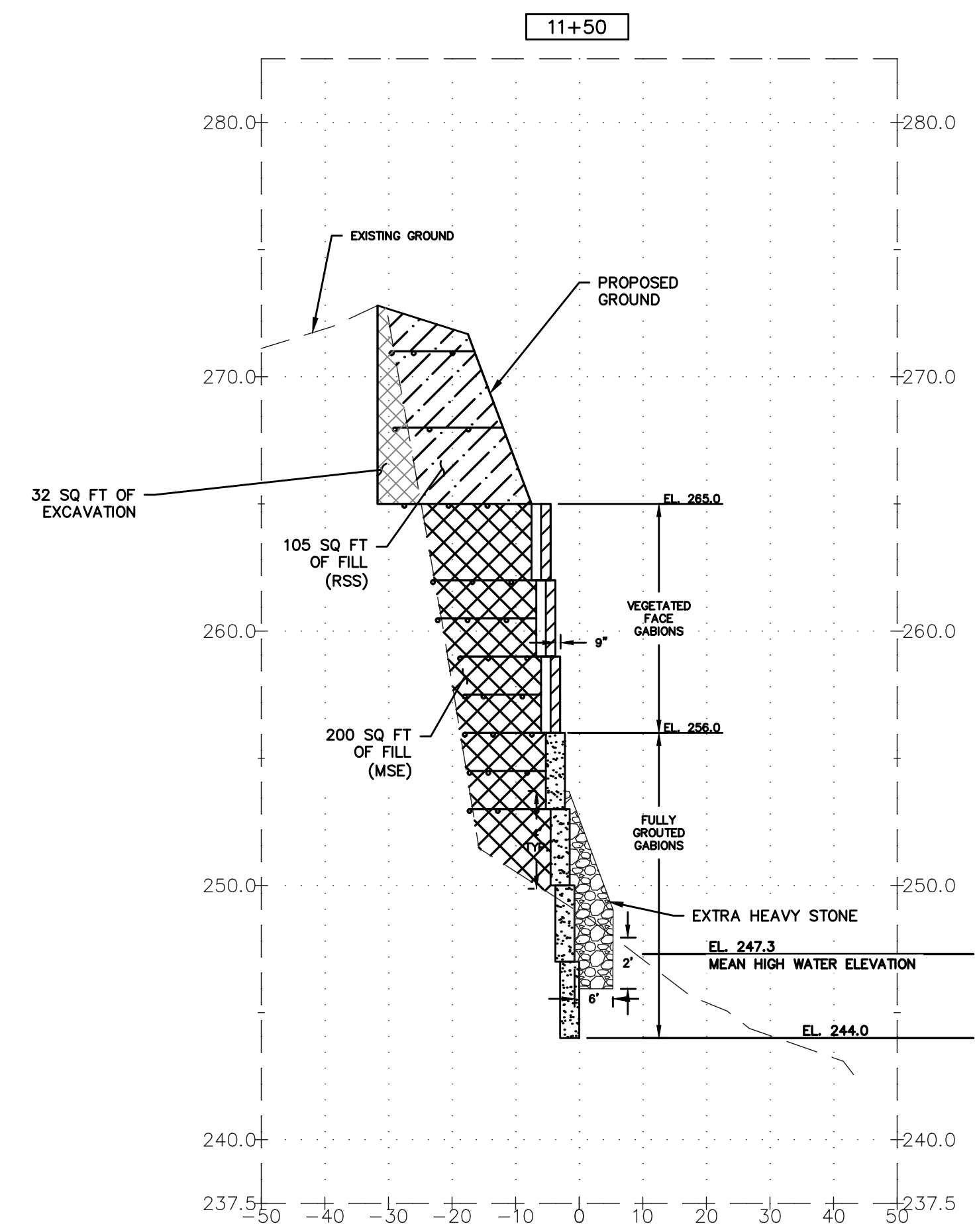
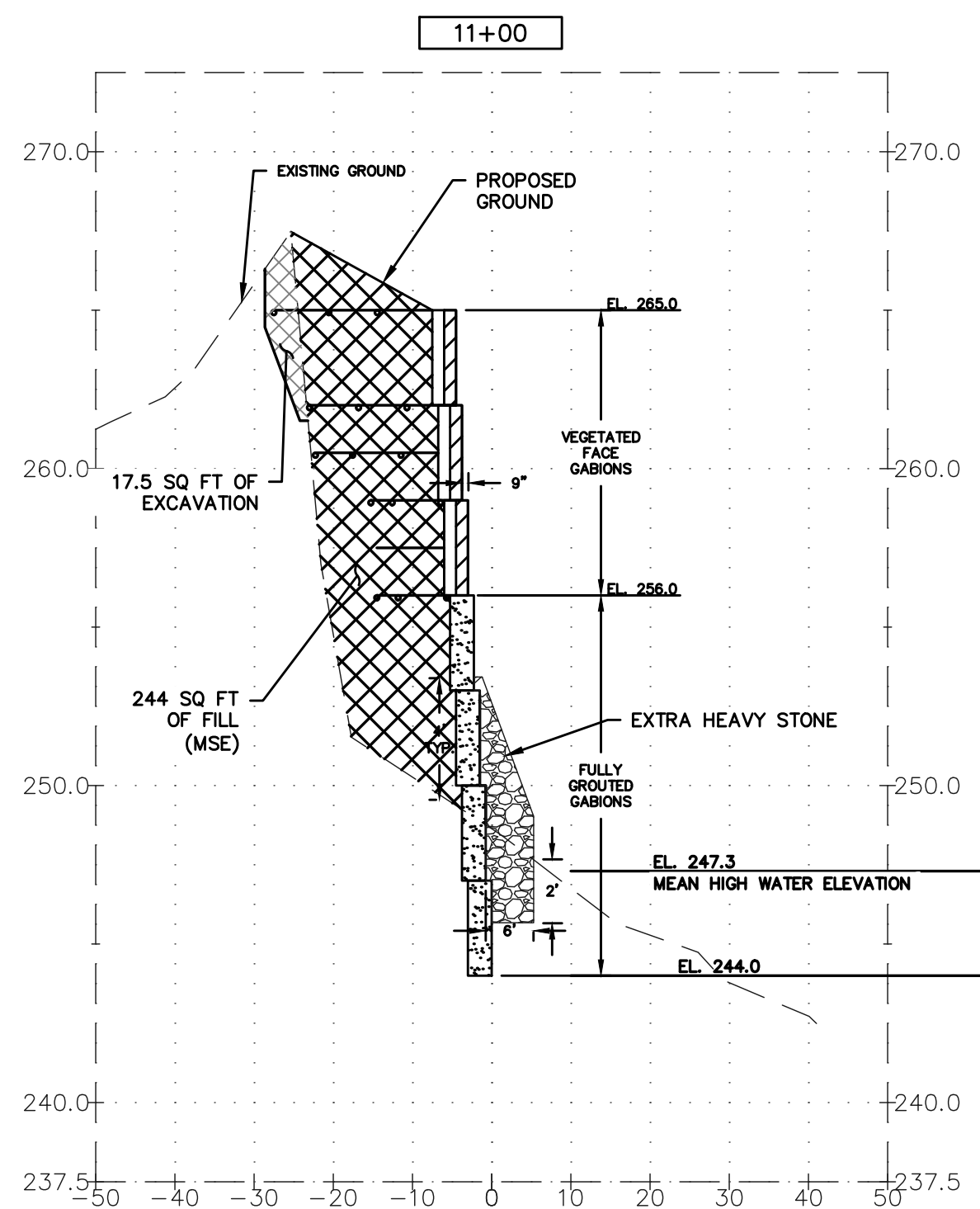
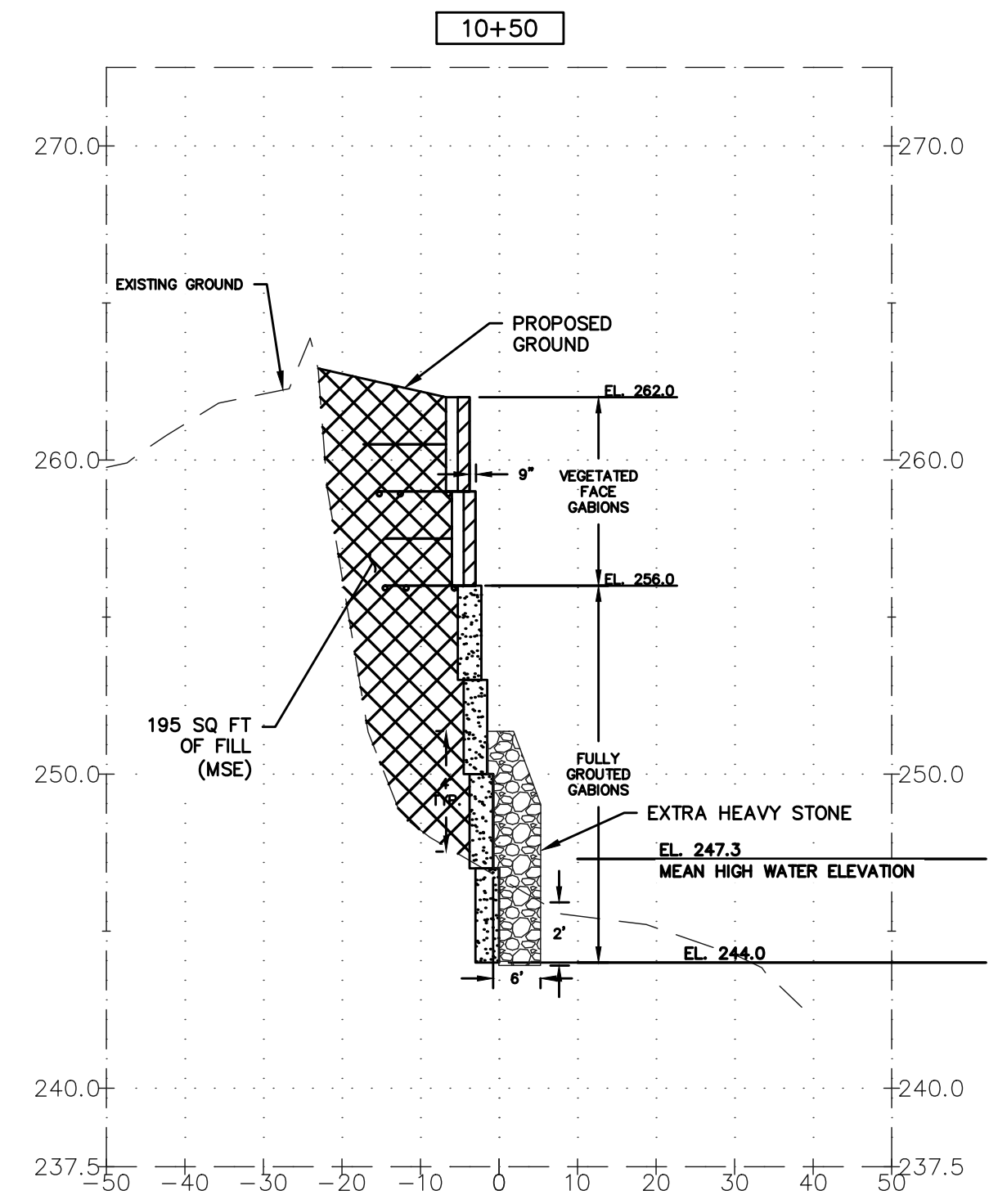
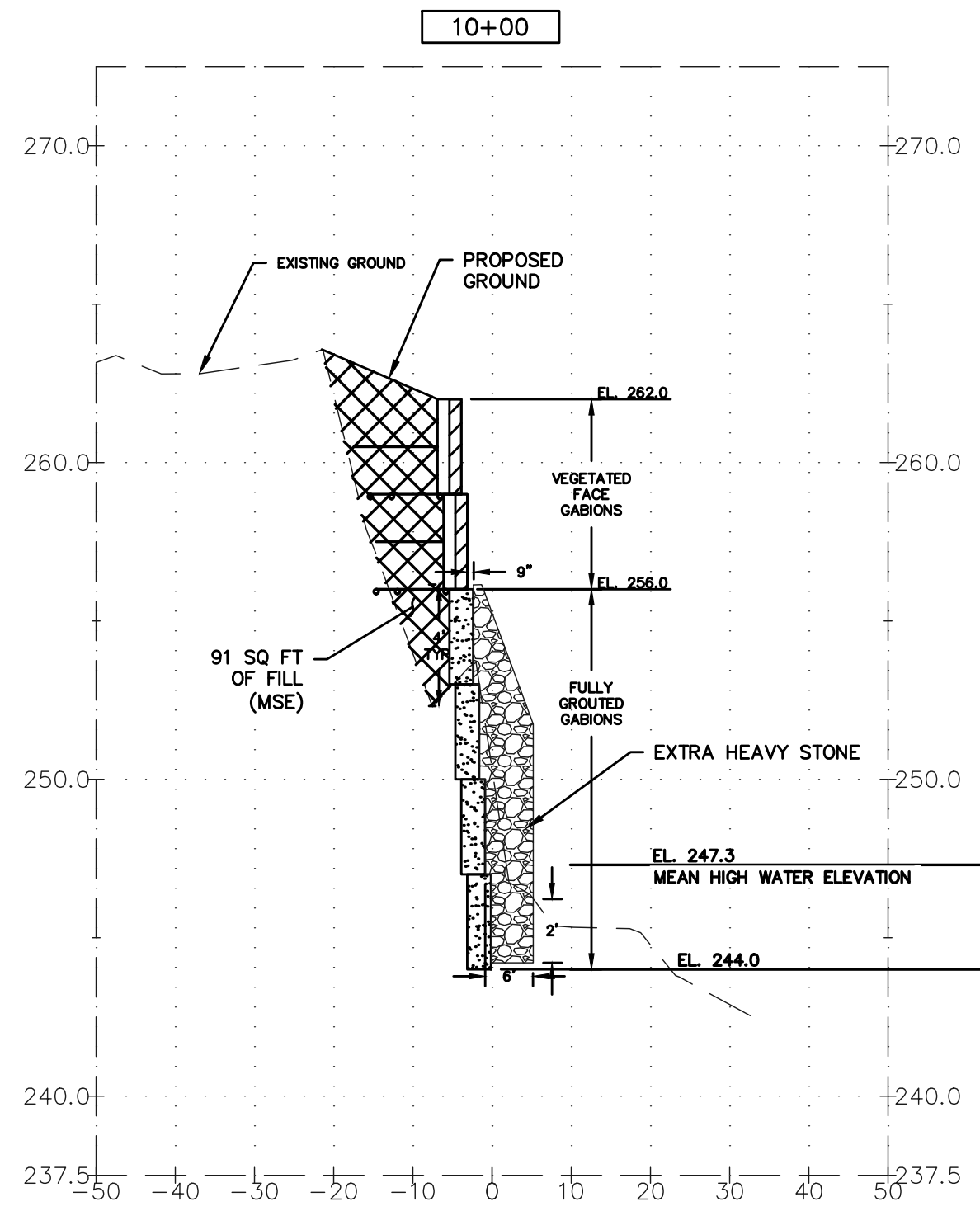


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 Project No. **65215077**



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DRAWING ALTERATION
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No.	Revisions and Descriptions	By	Date

Project Title:
**BLIND SODUS BAY
 WESTERN BLUFF REDI PROJECT
 TOWN OF WOLCOTT, WAYNE COUNTY, NY**

Drawing Title:
CROSS SECTIONS

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Drawn By:
 RPB

Checked By:
 SB

Scale:
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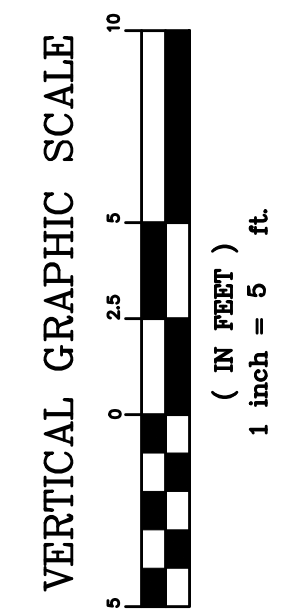
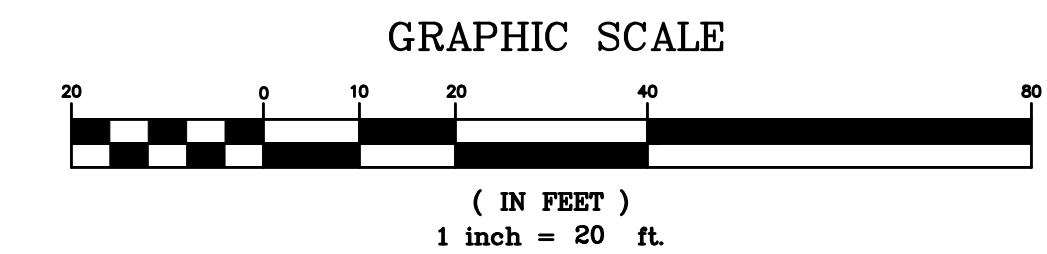
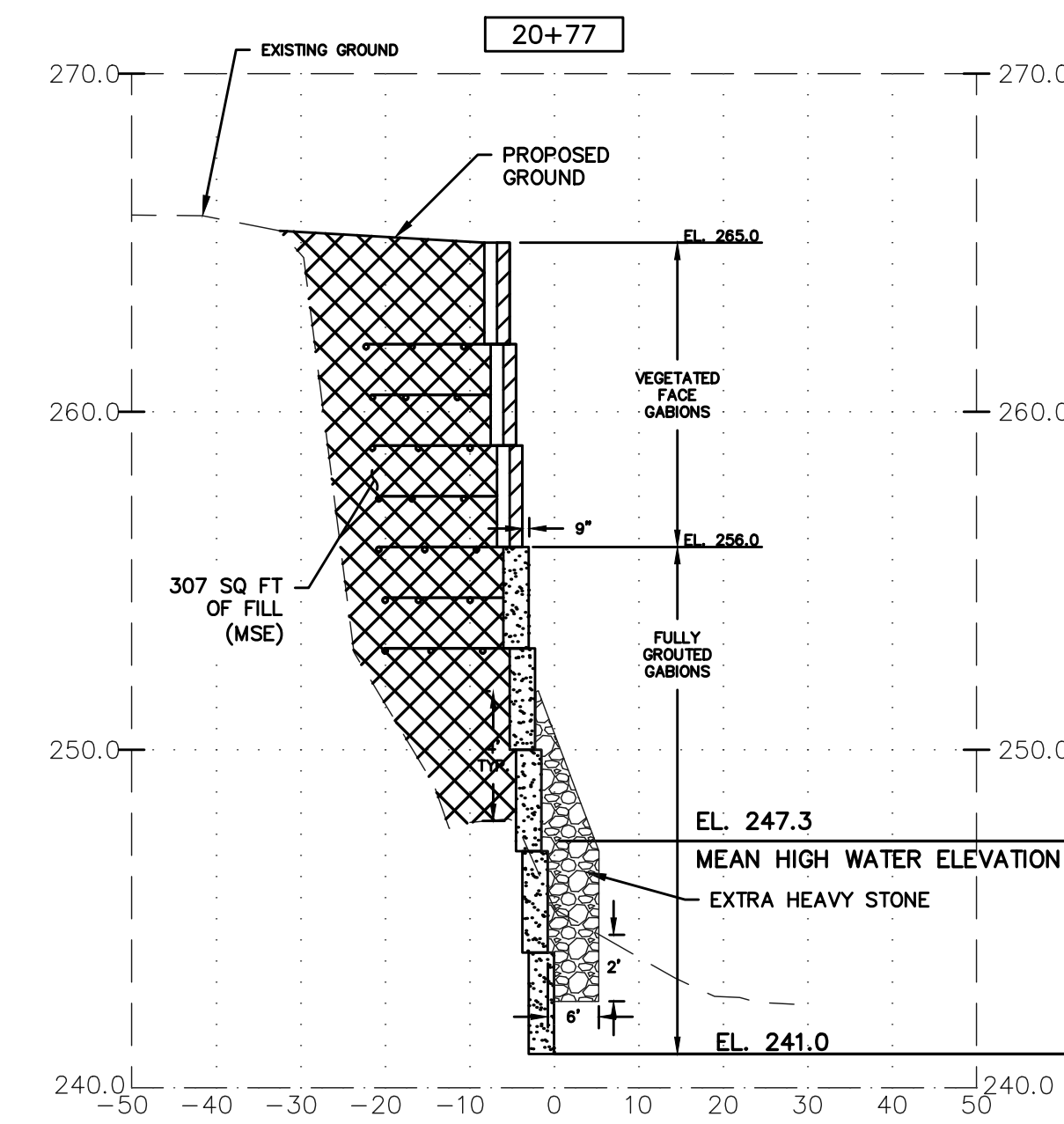
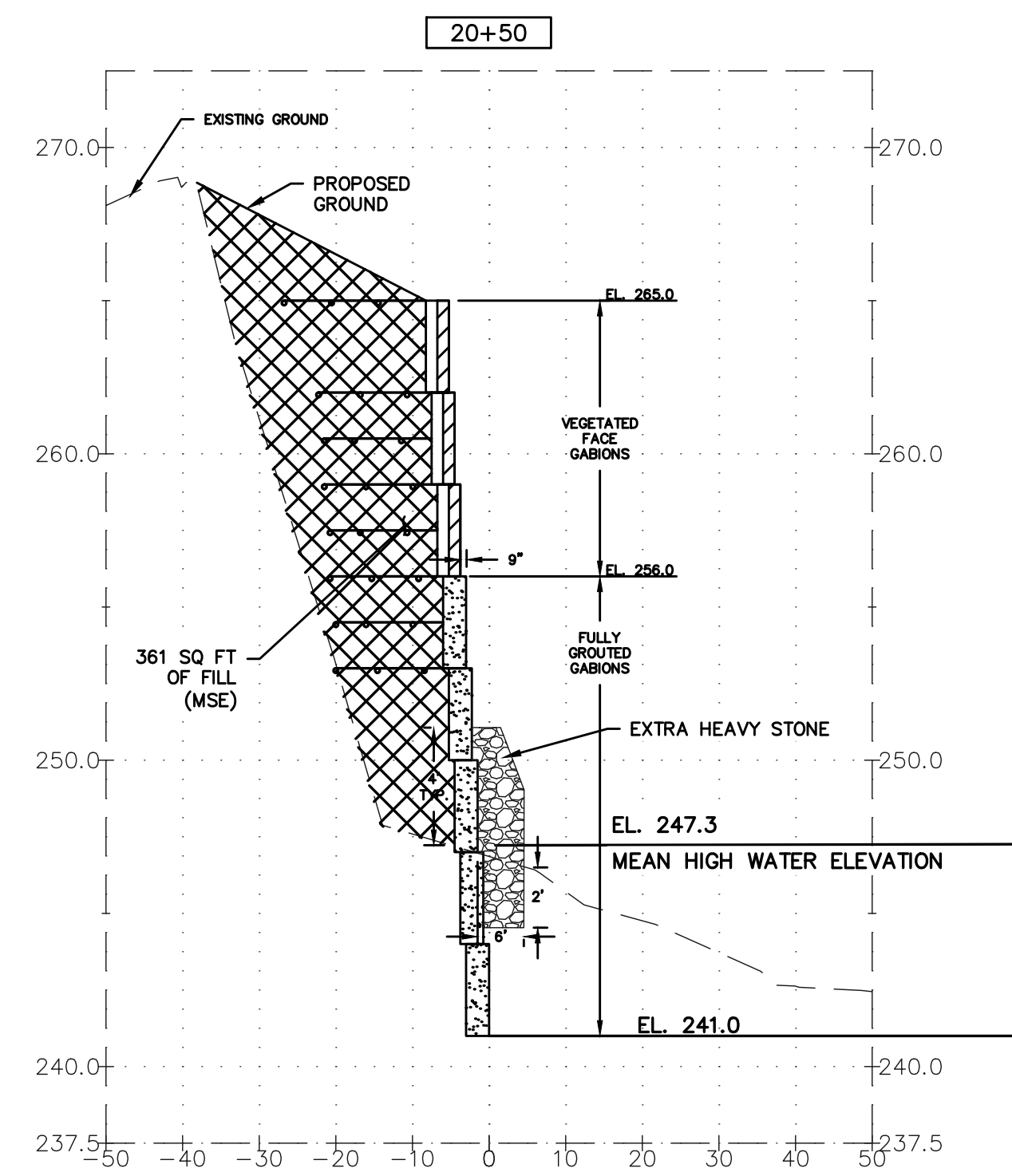
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Project No.
2317.20001



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No.	Revisions and Descriptions	By	Date

Project Title:
**BLIND SODUS BAY
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 TOWN OF WOLCOTT, WAYNE COUNTY, NY**

Drawing Title:
CROSS SECTIONS

Drawn By:
 RPB

Checked By:
 SB

Scale:
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Date:
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