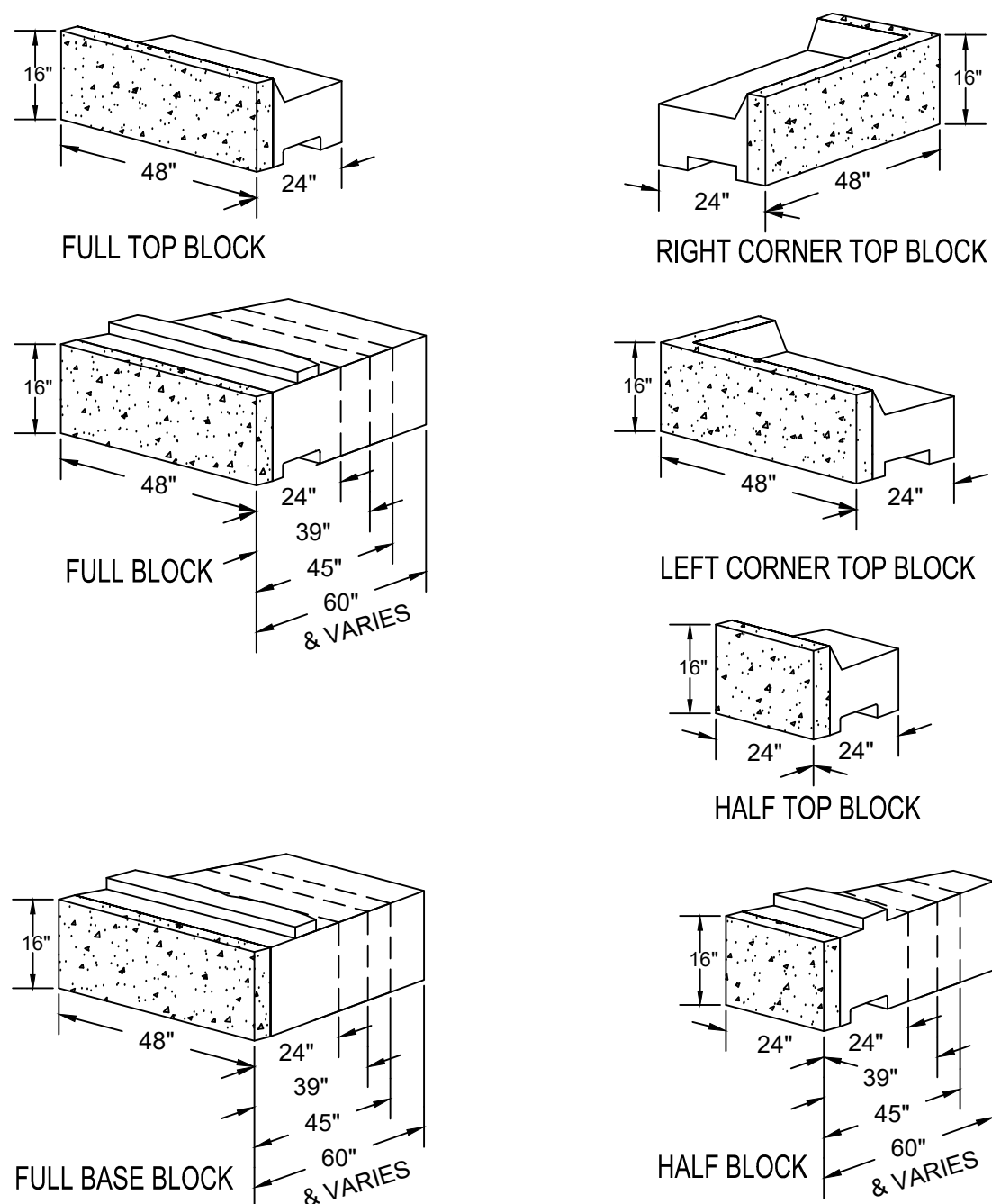
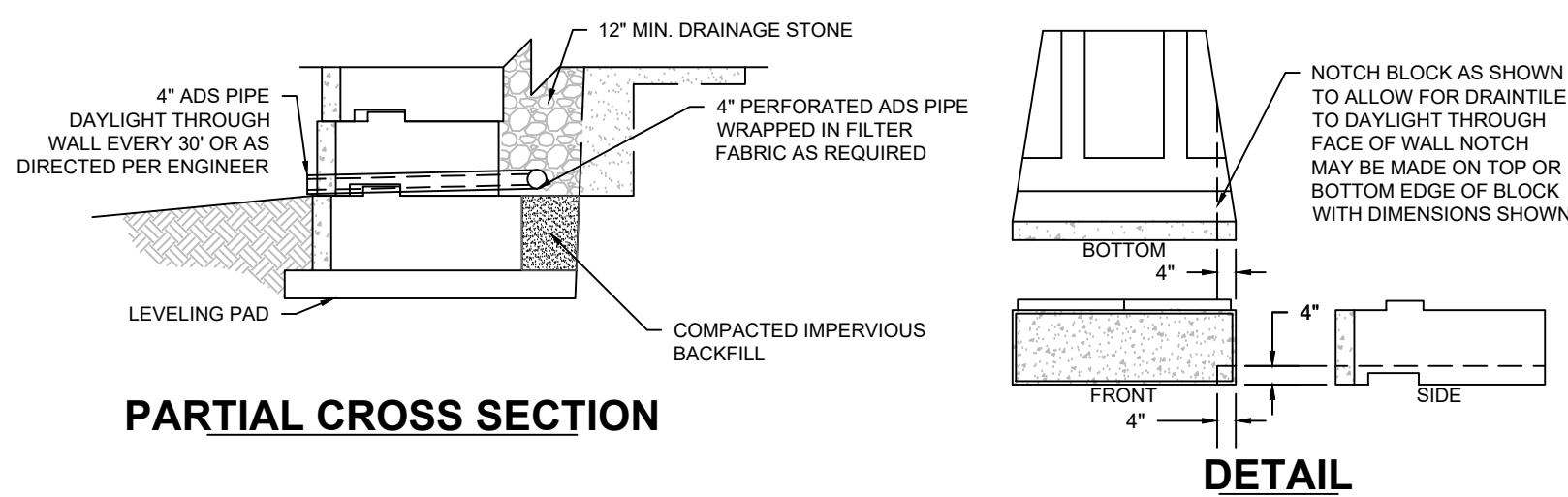


N:\VADO\9999\WALL\9999 RECON WALL 2021-08-24.DWG 08/24/21 12:22:56AM pmjw LAYOUT: W-4

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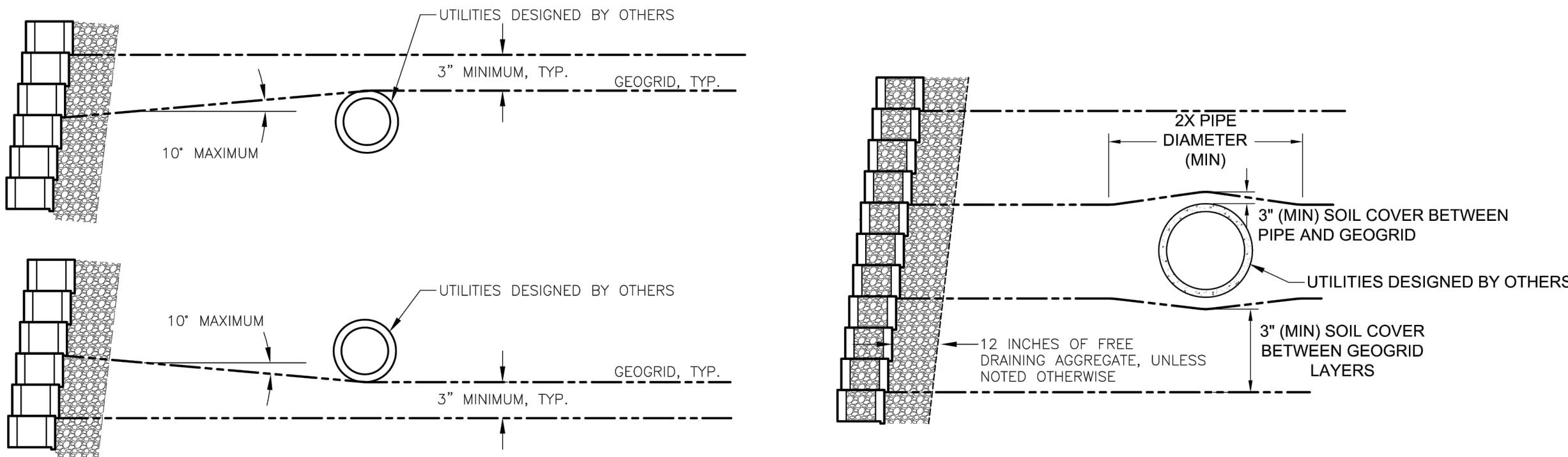
BLOCK TYPES
N.T.S.



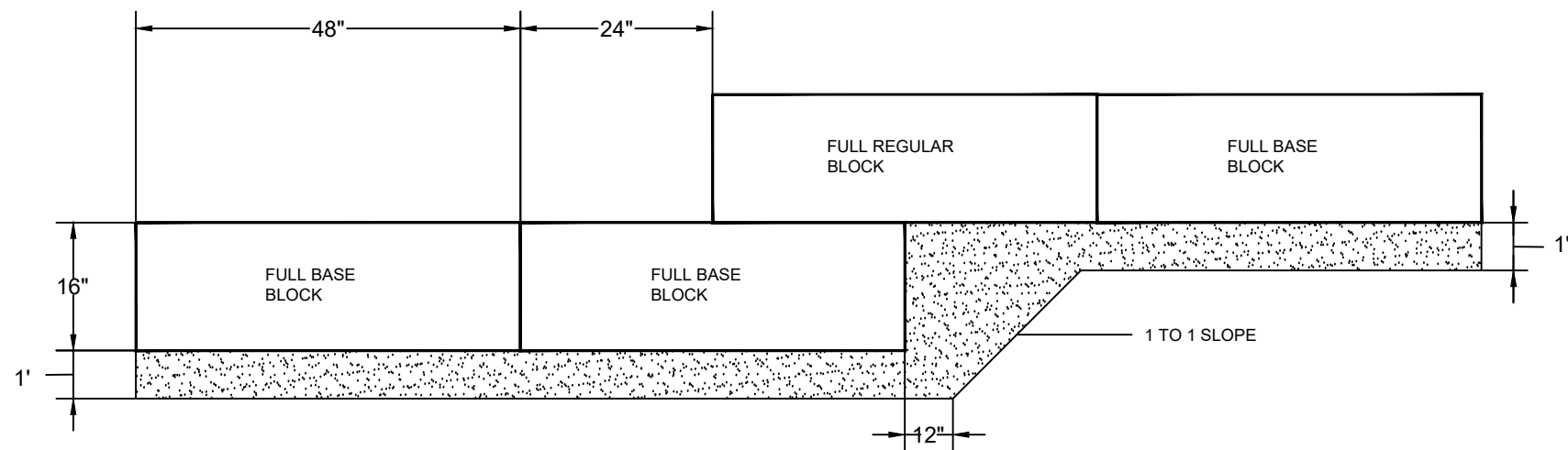
PARTIAL CROSS SECTION

DETAIL

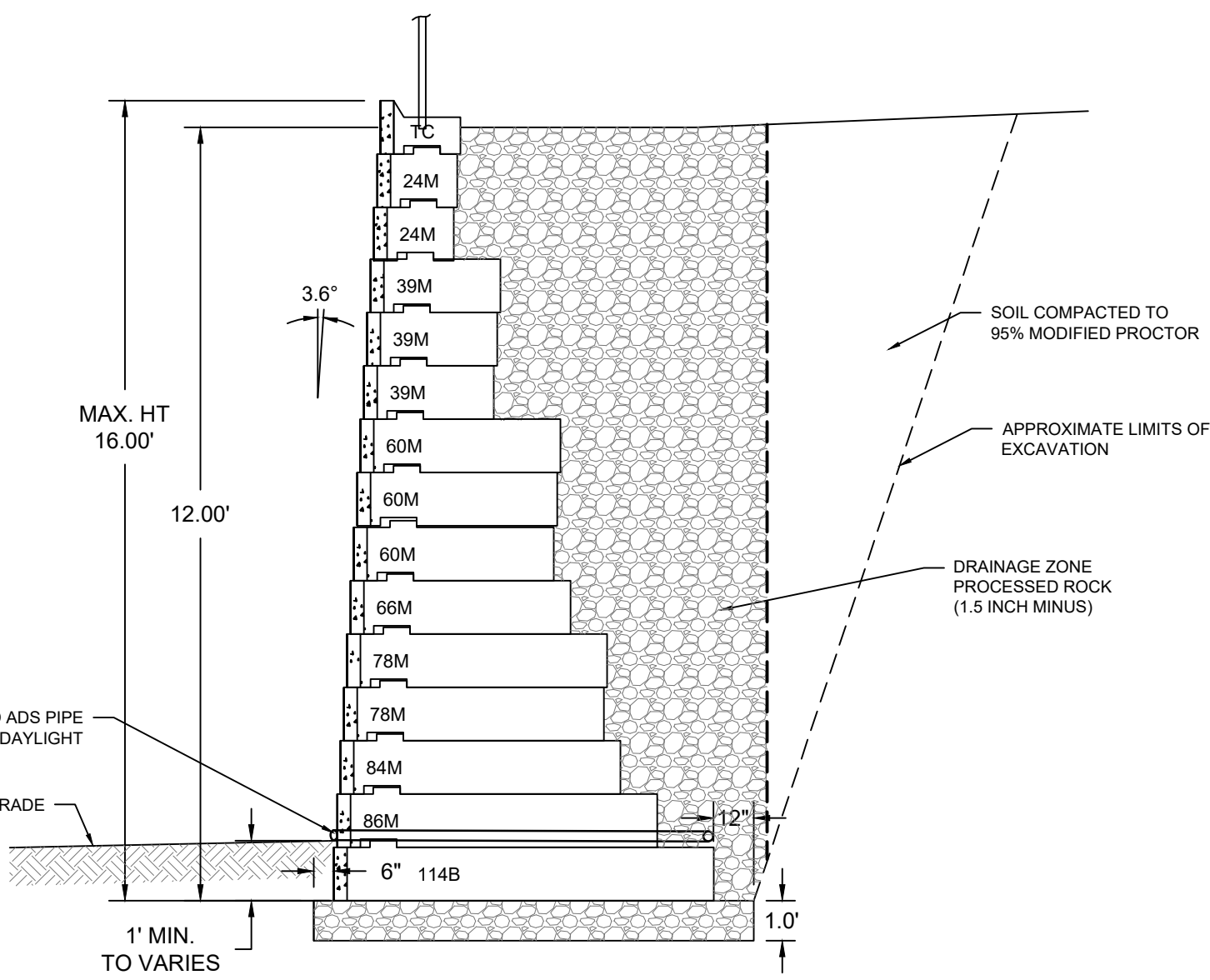
STANDARD DRAIN DETAILS
N.T.S.



GRID OVER PIPE DETAILS
N.T.S.

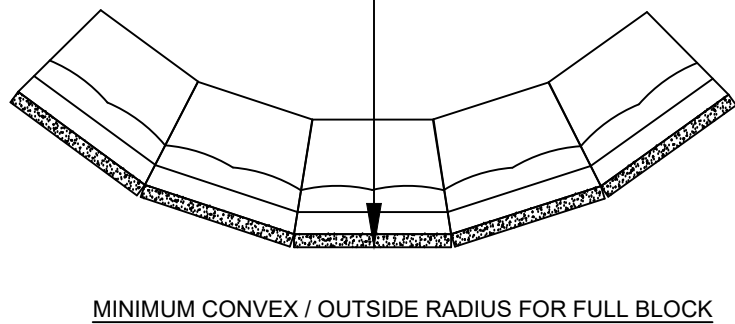


TYPICAL BASE ROW STEP UP
N.T.S.



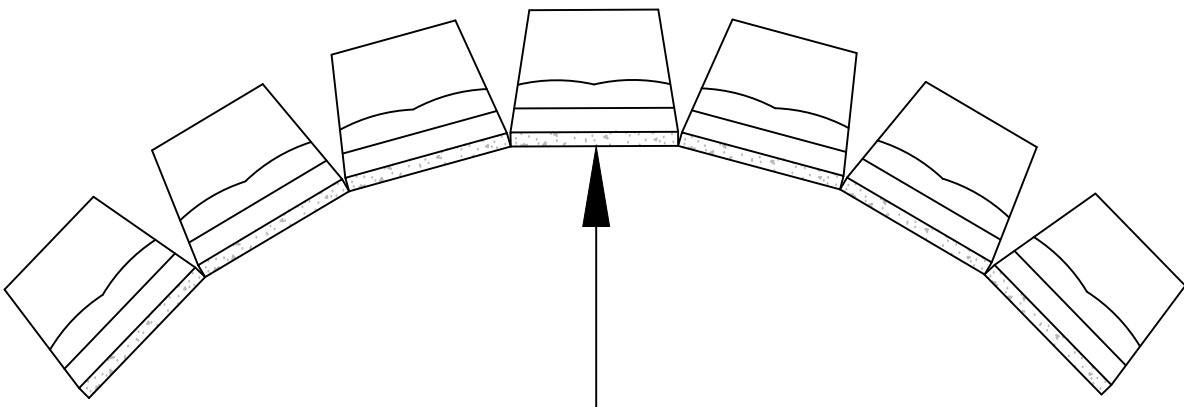
TYPICAL RECON WALL
CROSS SECTION
N.T.S.

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



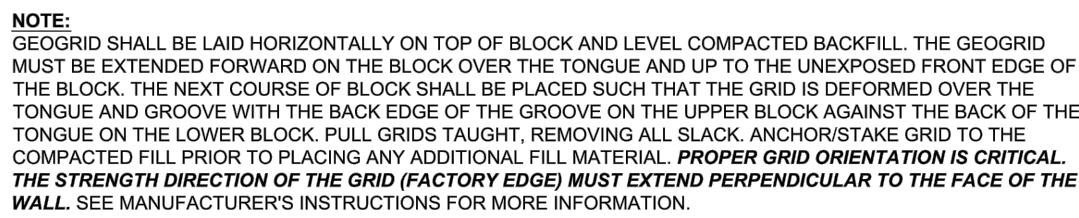
TYPICAL OUTSIDE RADIUS-FULL BLOCK
N.T.S.

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.

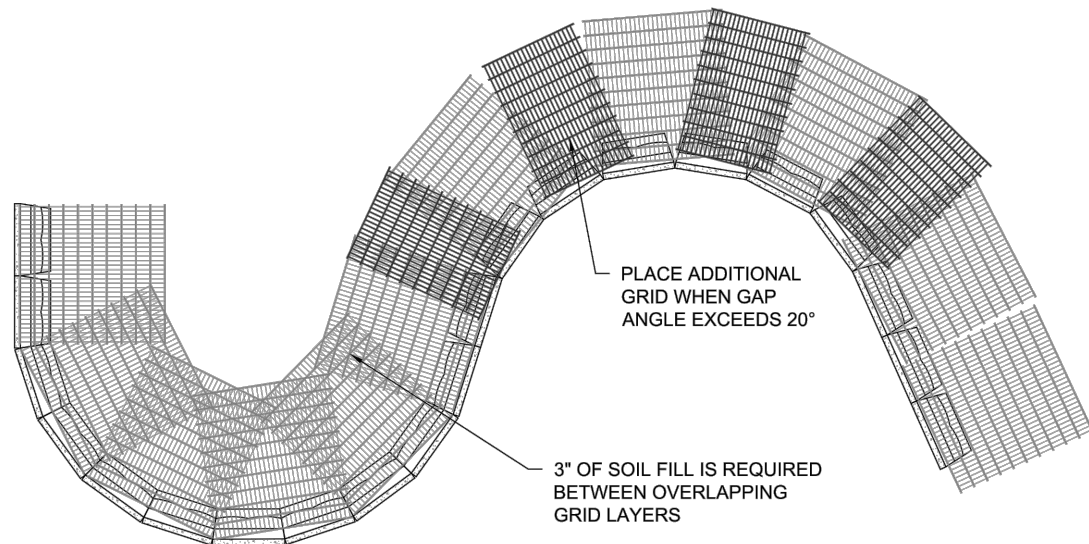


MINIMUM CONCAVE / INSIDE RADIUS
FOR FULL BLOCK

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 SOIL 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 VOIDS 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

drawing title:
job no. 9999
drawing no.

SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL

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dwg by: yj
chk by: AB
scale: AS NOTED
date: 08/04/2021
rev: description

by: date

PROFESSIONAL ENGINEER
MICHAEL J. ST. PIERRE, P.E.
N.Y. LIC. NO. 080271

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W-4

4 of 6