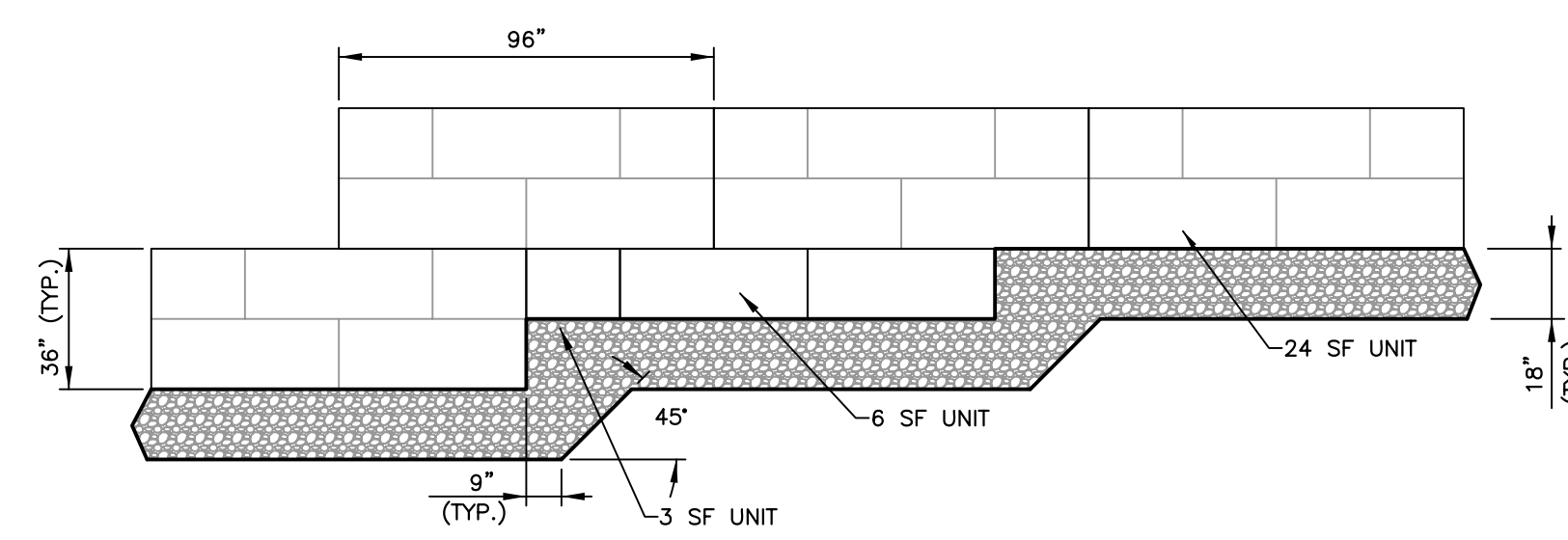
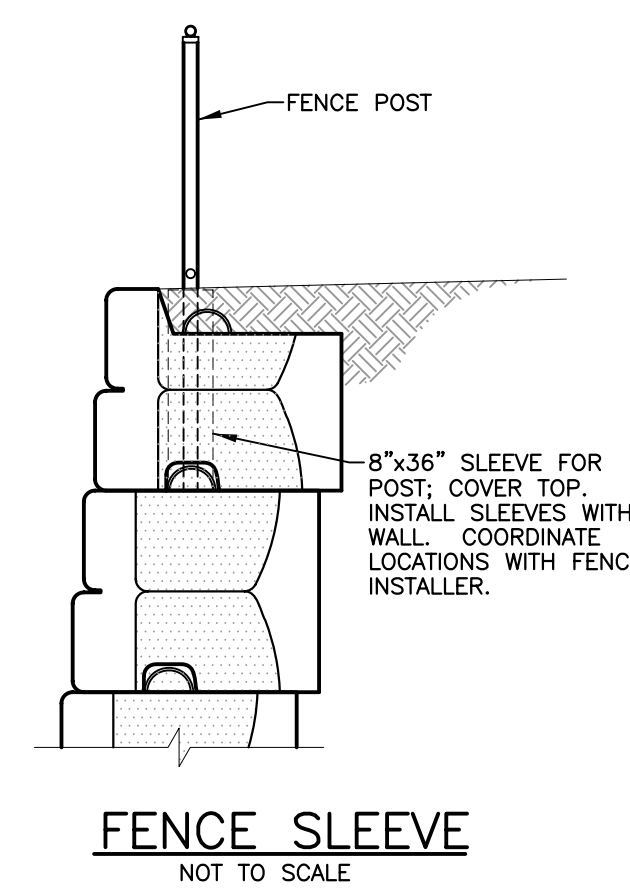
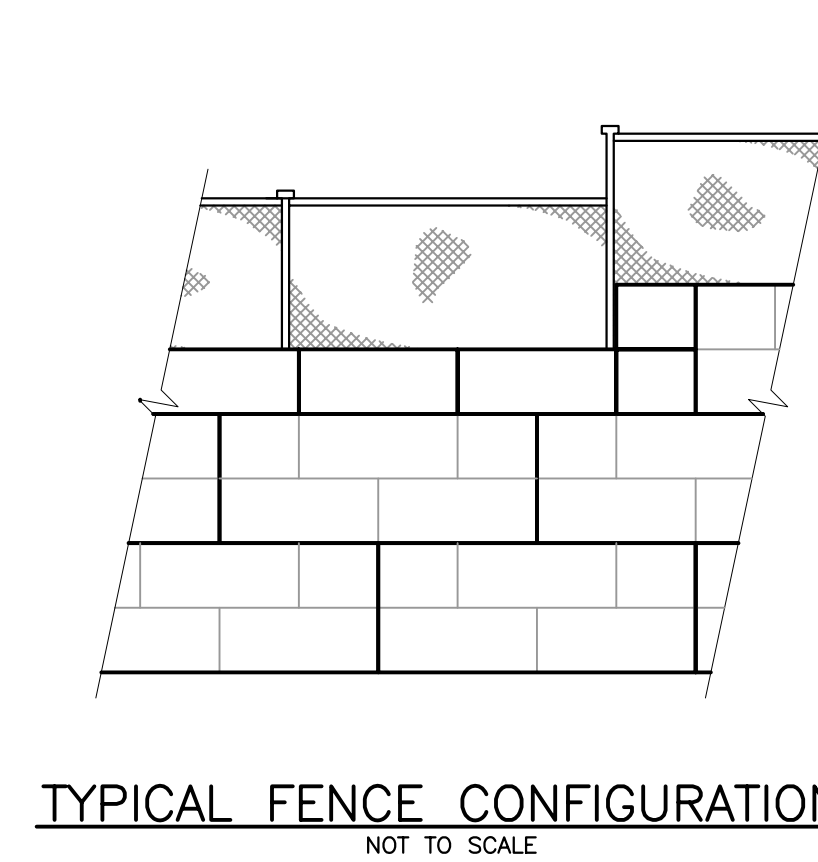
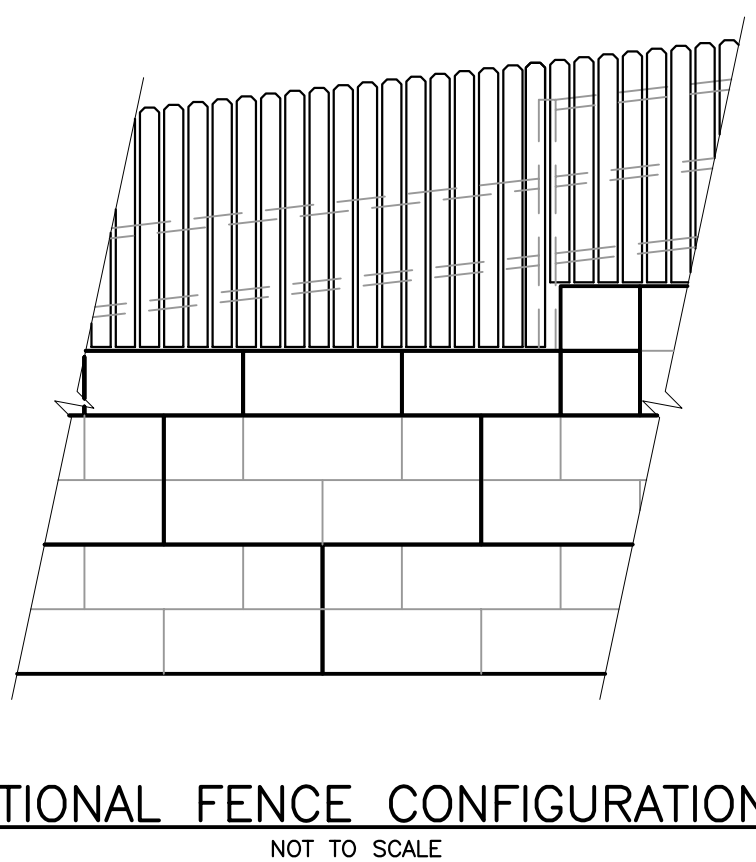
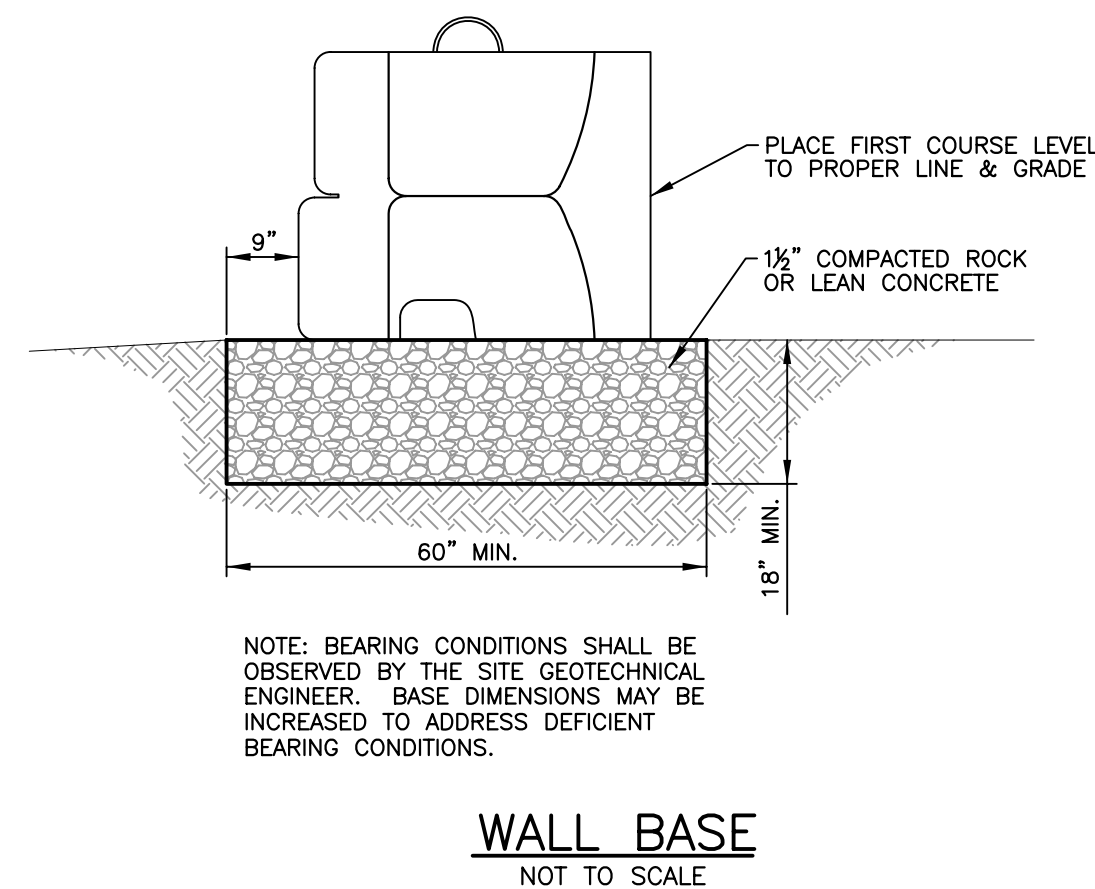
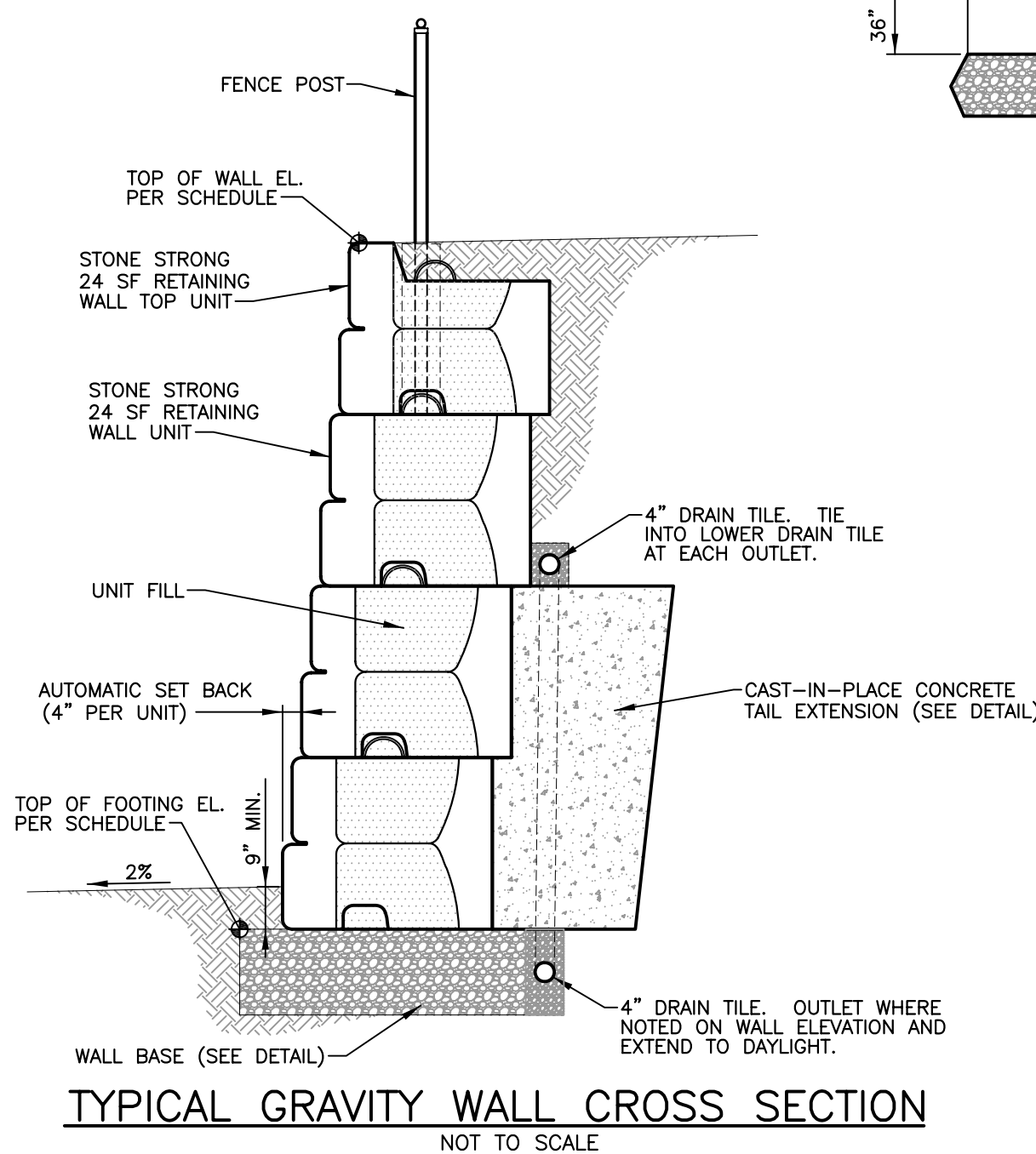


CONCRETE TAIL EXTENSION DETAIL (CAST-IN-PLACE)
NOT TO SCALE



WALL BASE STEP
NOT TO SCALE



OPTIONAL FENCE CONFIGURATION
NOT TO SCALE

TYPICAL FENCE CONFIGURATION
NOT TO SCALE

FENCE SLEEVE
NOT TO SCALE

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SITE SAFETY. THIELE GEOTECH, INC. (TG) SHALL NOT BE RESPONSIBLE FOR MEANS OR METHODS OF CONSTRUCTION OR FOR SAFETY OF WORKERS OR OF THE PUBLIC.
- THIS DESIGN IS BASED ON THE FOLLOWING SOIL PROPERTIES:

PROPERTY	RETAINED SOIL	FOUNDATION SOIL
FRICITION ANGLE - ϕ	26°	26°
UNIT WEIGHT - γ	125 PCF	125 PCF
COHESION - C	0	200 PSF
SOIL TYPE	LEAN CLAY	LEAN CLAY

- SOIL PROPERTIES ARE INTERPRETED FROM A GEOTECHNICAL REPORT PREPARED BY TERRACON CONSULTANTS, INC. A SURCHARGE LOAD OF 100 TO 150 PSF WAS APPLIED AT THE TOP OF THE WALL TO ACCOUNT FOR VEHICLE TRAFFIC
- THE WALL BASE DESIGN ASSUMES A NET ALLOWABLE BEARING PRESSURE OF 3,000 PSF. THE SITE GEOTECHNICAL ENGINEER SHOULD OBSERVE THE BEARING CONDITIONS AND ADJUST THE THICKNESS OF THE GRANULAR BASE TO ACCOMMODATE SOFT CONDITIONS, IF NECESSARY.
 - STATIONS AND LAYOUT DIMENSIONS ARE MEASURED ALONG THE FACE OF THE WALL AT THE BOTTOM COURSE.
 - PRECAST UNITS SHALL BE STONE STRONG RETAINING WALL UNITS MANUFACTURED UNDER LICENSE FROM STONE STRONG SYSTEMS. UNITS SHALL HAVE A MOLDED GRANITE FACE.
 - THE WALL BASE SHALL CONSIST OF COMPACTED CRUSHED ROCK OR RECYCLED CONCRETE AGGREGATE, WITH THE FOLLOWING GRADATION:

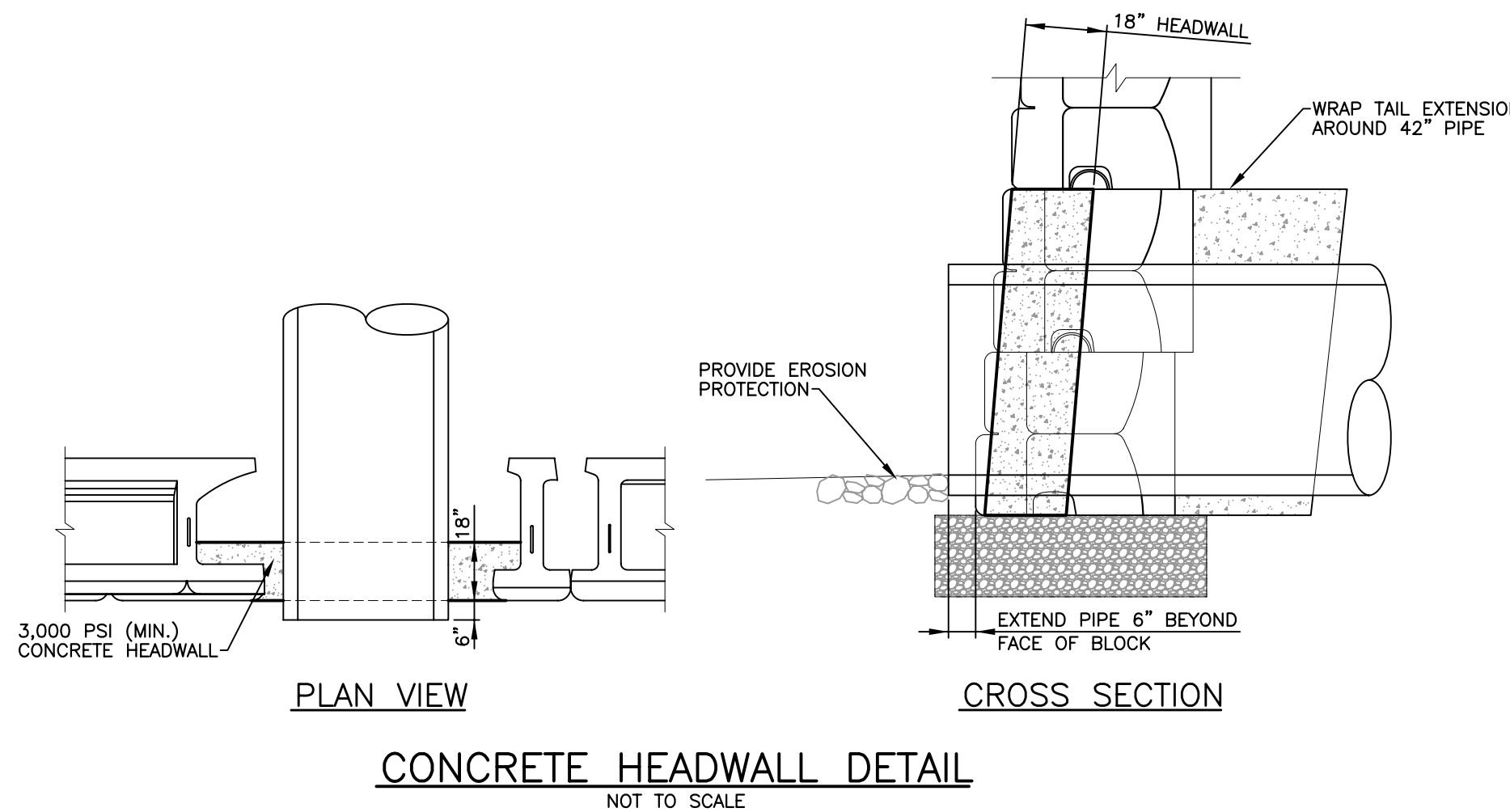
US STANDARD SIEVE SIZE	PERCENT PASSING
1-1/2"	80-100
3/4"	50-90
#4	0-40
#200	0-10

THE WALL BASE SHALL BE PLACED AS SHOWN ON THE DRAWINGS. THE BASE SHALL BE COMPACTED SO AS TO PROVIDE A LEVEL AND HARD SURFACE ON WHICH TO PLACE THE FIRST COURSE OF UNITS. GRANULAR BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95 PERCENT OF STANDARD PROCTOR (ASTM D698). FOOTING SHALL BE SMOOTHED TO ENSURE COMPLETE CONTACT OF RETAINING WALL UNIT WITH BASE. SURFACE OF GRANULAR BASE MAY BE DRESSED WITH FINER AGGREGATE TO AID LEVELING. THE THICKNESS OF DRESSING LAYER SHOULD NOT EXCEED 3 TIMES THE MAXIMUM PARTICLE SIZE USED. THE CONTRACTOR MAY SUBSTITUTE LEAN CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI FOR THE GRANULAR BASE MATERIAL.

- UNIT FILL SHALL BE A CLEAN, COARSE GRANULAR MATERIAL. UNIT FILL SHALL BE SCREENED CRUSHED ROCK OR RECYCLED CONCRETE, MEETING THE FOLLOWING GRADATION:

US STANDARD SIEVE SIZE	PERCENT PASSING
1-1/2"	100
3/4"	60-100
#4	0-40
#200	0-5

- UNIT FILL SHALL FILL CAVITIES WITHIN AND BETWEEN THE UNITS, AND MAY EXTEND BEHIND THE FACING UNITS FOR THE CONTRACTOR'S CONVENIENCE.
- EXCAVATED ON-SITE SOILS FREE FROM ORGANIC MATTER AND DEBRIS MAY BE USED AS BACKFILL MATERIAL. OFF-SITE BORROW SHALL BE A CLEAN INORGANIC SILT OR LEAN CLAY WITH A LIQUID LIMIT LESS THAN 45 AND A PLASTICITY INDEX LESS THAN 20. BACKFILL MATERIAL SHALL BE APPROVED BY THE SITE GEOTECHNICAL ENGINEER PRIOR TO USE. BACKFILL SHALL BE PLACED IN MAXIMUM 8 INCH LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR (ASTM D698). MOISTURE CONTENT SHOULD BE CONTROLLED AND MAINTAINED WITHIN -3 TO +4 PERCENT OF OPTIMUM.
 - ENSURE EACH COURSE IS COMPLETELY FILLED AND BACKFILL IS PLACED TO THE SAME LEVEL PRIOR TO PROCEEDING TO NEXT COURSE. ENSURE ADJACENT UNITS ARE IN CONTACT SO THAT UNIT FILL MAY NOT ESCAPE THROUGH THE JOINT BETWEEN UNITS. GAPS GREATER THAN 1/4" BETWEEN UNITS SHALL NOT BE ALLOWED. AT INTERSECTIONS WITH STRUCTURES, CUT UNITS TO OBTAIN A NEAT FIT. PULL BLOCK UNITS FORWARD TO ENGAGE THE ALIGNMENT LOOPS ON THE UNIT BELOW.
 - MAINTAIN TEMPORARY GRADES TO DIVERT SURFACE WATER AWAY FROM THE RETAINING WALL EXCAVATION. SLOPE FINAL BACKFILL TO PROVIDE POSITIVE DRAINAGE AND TO ELIMINATE PONDING.



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MAIZE 54 ADDITION
RETAINING WALL
DETAILS & GENERAL NOTES
CITY OF WICHITA, KANSAS
JAMES L. ARMOUR, P.E. - CITY ENGINEER
Project No. _____ OCA No. _____

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Revision
By
Date
No.

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