

NAME/COMPANY:

PHONE:

JOB NAME:

JOB #:

DATE:

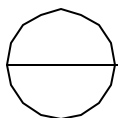


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GENERAL NOTES

1. STRIP ALL VEGETATION AND ORGANIC SOIL FROM THE WALL AREA, INCLUDING THE GEOSYNTHETIC REINFORCEMENT EMBEDMENT LENGTH. PLAN EXCAVATION DIVERSION DITCHES TO ROUTE SURFACE WATER AROUND EXCAVATION DURING WALL CONSTRUCTION.
2. BENCH CUT ALL EXCAVATED SLOPES, TO THE LINES AND GRADES SHOWN ON THE DRAWINGS CHECK AND VERIFY WALL LOCATION AND ALIGNMENT PRIOR TO STARTING WALL CONSTRUCTION.
3. SITE SOIL ENGINEER SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT PER THE DESIGN STANDARDS, PARAMETERS, AND/OR LOCAL BUILDING CODES. DO NOT OVER EXCAVATE SOIL UNLESS DIRECTED BY SITE SOIL ENGINEER TO REMOVE UNSUITABLE SOIL.
4. MINIMUM EMBEDMENT DEPTH OF WALL BELOW FINISH GRADE SHALL BE AS SHOWN ON PLANS. FOR WALL HEIGHTS BELOW 10 FT USE 6", ABOVE 10 FT USE H/20. WHEN THERE IS A SLOPE BELOW THE WALL, CONSULT THE ENGINEER.
5. FOLLOW ALL APPLICABLE PROVISIONS OF THE MANUFACTURERS INSTALLATION INSTRUCTIONS. WRITTEN PROJECT SPECIFICATIONS SHALL BE USED AS GUIDANCE WHEN INSTRUCTIONS AND SPECIFICATIONS CONFLICT.
6. LEVELING PAD SHALL CONSIST OF COMPACTED DRAINAGE AGGREGATE, MINIMUM 6" THICK. CONTRACTOR MAY USE COMPACTED SAND AND GRAVEL WITH APPROVAL OF THE ENGINEER.
7. DRAINAGE FILL 12" THICK SHALL BE INSTALLED BEHIND THE SWS UNITS TO WITHIN 12" OF THE TOP OF THE WALL. DRAINAGE FILL TO BE AASHTO 57 OR 67 STONE.
8. WHERE DRAIN TILE IS USED, PROVIDE GRAVITY FLOW TO OUTLETS @ MIN. (1/100) SLOPE
9. BACKFILL AND COMPACT AS EACH COURSE OF SWS UNITS IS INSTALLED. BACKFILL AGGREGATE FIRST, THEN SOIL, THEN COMPACT BOTH.
10. CONTRACTOR IS RESPONSIBLE FOR MOISTURE CONTROL OF NATURAL FILL SOILS USED ON SITE.
11. COMPACTION SHALL BE TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY. (ASTM D-698).
12. SOIL COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE SITE SOILS ENGINEER, BUT NOT LESS THAN EVERY 500 SQ. FT. OF WALL FACE NOR EVERY 4 FEET CHANGE IN FILL ELEVATION.
13. SEE WALL PROFILE (ELEVATION VIEW) FOR GEOGRID TYPE, LENGTH AND LOCATION REQUIRED.
14. GEOGRID SHALL BE THE TYPE AND LENGTH AS SHOWN ON PLANS. PULL GEOGRID TIGHT PRIOR TO BACKFILLING, AND STAKE OR HOLD, UNTIL FILL IS PLACED
15. PROVIDE PERMANENT, STABILIZED LATERAL DRAINAGE SWALES TO DIRECT SURFACE WATER FLOW AROUND THE ENDS OF THE WALL.
16. ESTABLISH TURF IMMEDIATELY AFTER THE WALL IS COMPLETED.
17. FINAL WALL LOCATION AND ALIGNMENT SHALL BE SURVEYED IN THE FIELD, AND REPORTED TO THE OWNERS ENGINEER.

IF EXISTING CONDITIONS ARE DIFFERENT THAN THOSE STATED IN THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR MUST CONTACT THE ENGINEER AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH WALL CONSTRUCTION.



GENERAL NOTES

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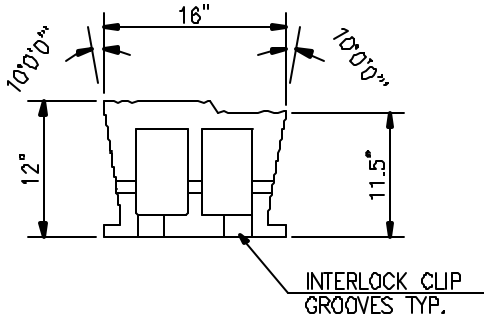
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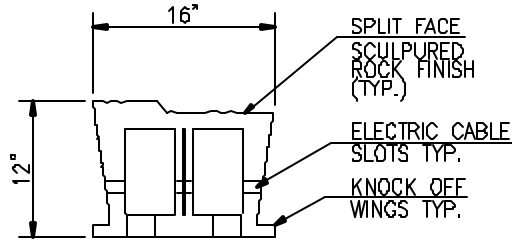
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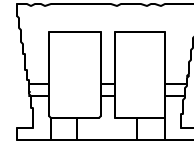
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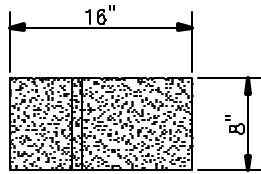
BASIC UNIT "A"
(PLAN VIEW)



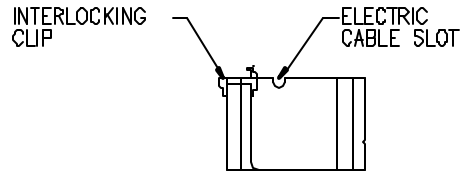
BASIC UNIT "B"
SPLITTABLE INTO 8 INCH HALVES
(PLAN VIEW)



OPTIONAL STRAIGHT
SPLIT UNIT
(PLAN VIEW)



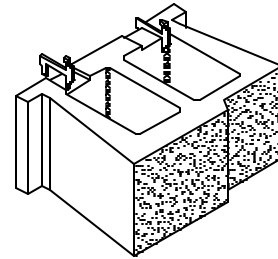
BASIC UNIT "A"
(FRONT VIEW)



BASIC UNIT "B"
(SECTION)

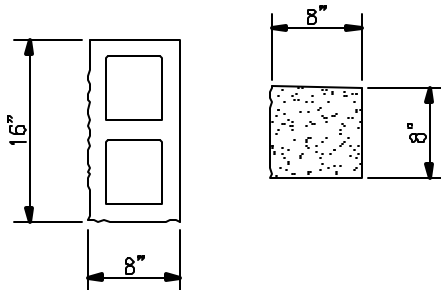


(SECTION)

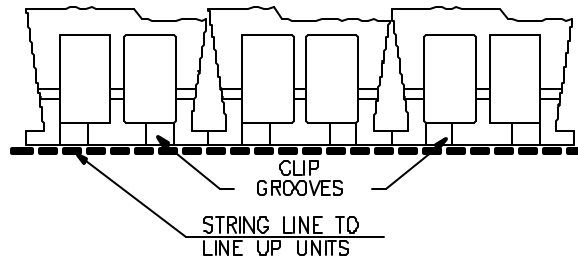


(PLAN VIEW)

INTERLOCKING CLIP



CORNER UNIT
(PLAN VIEW)



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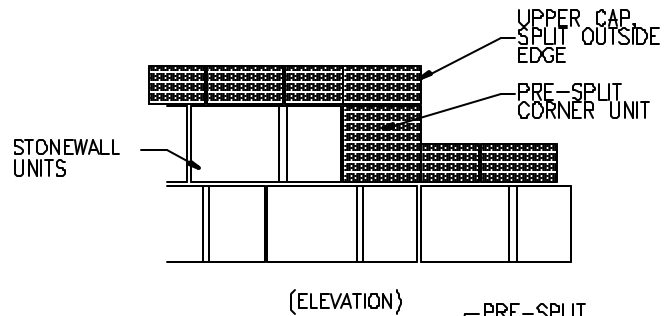
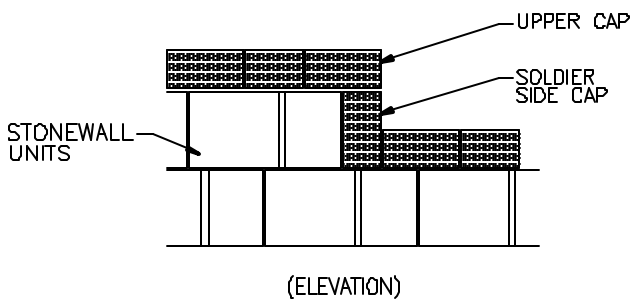
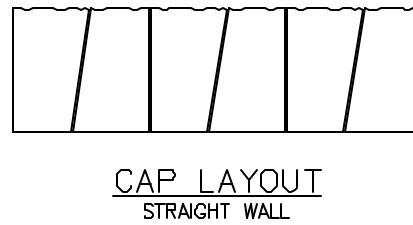
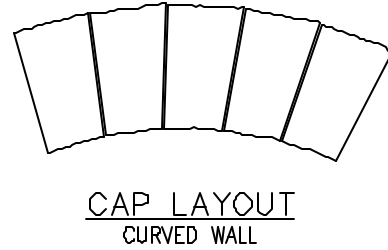
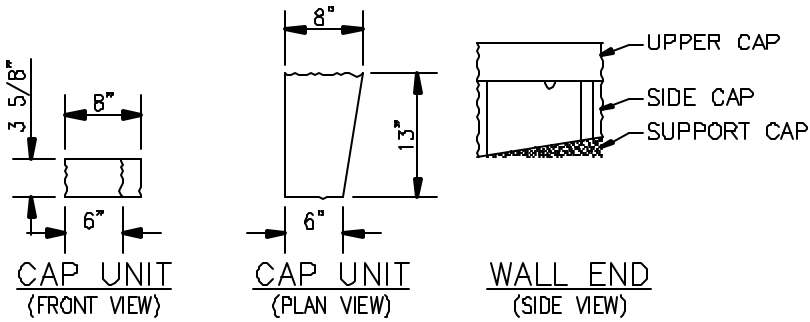
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CAP DETAIL FOR "SMOOTH"
WALL ELEVATION CHANGE

CAP DETAIL FOR "ROUGH"
WALL ELEVATION CHANGE



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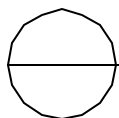
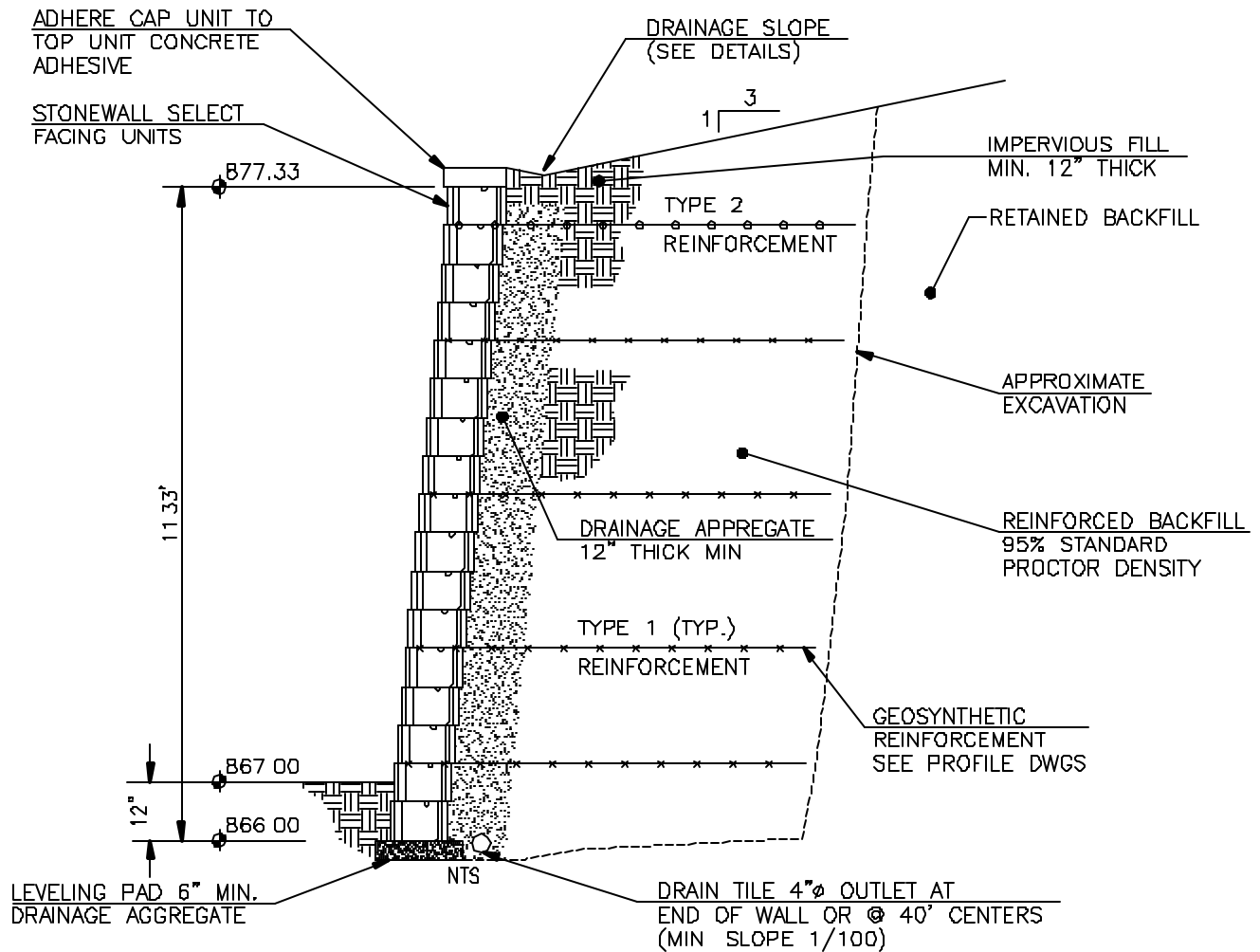
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TYPICAL RETAINING WALL SECTION 'A-A'

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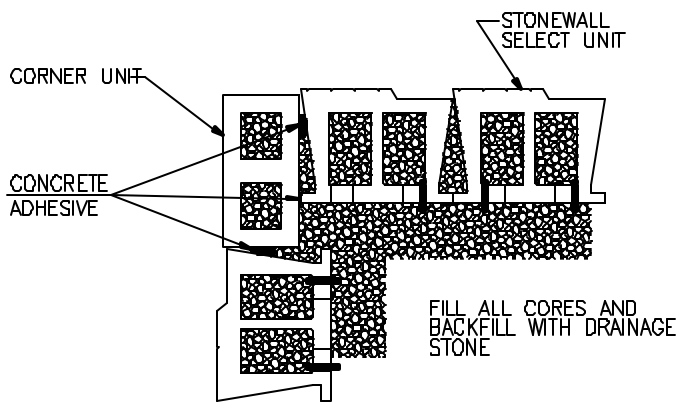
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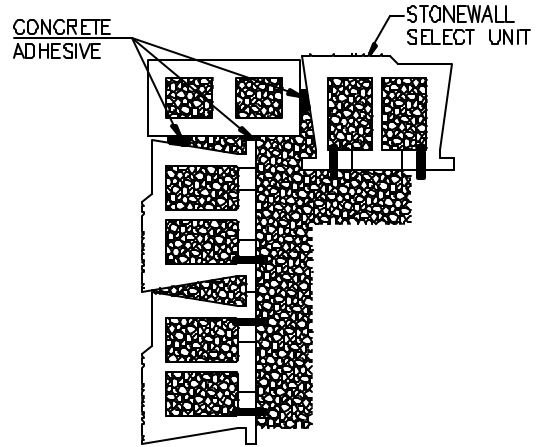


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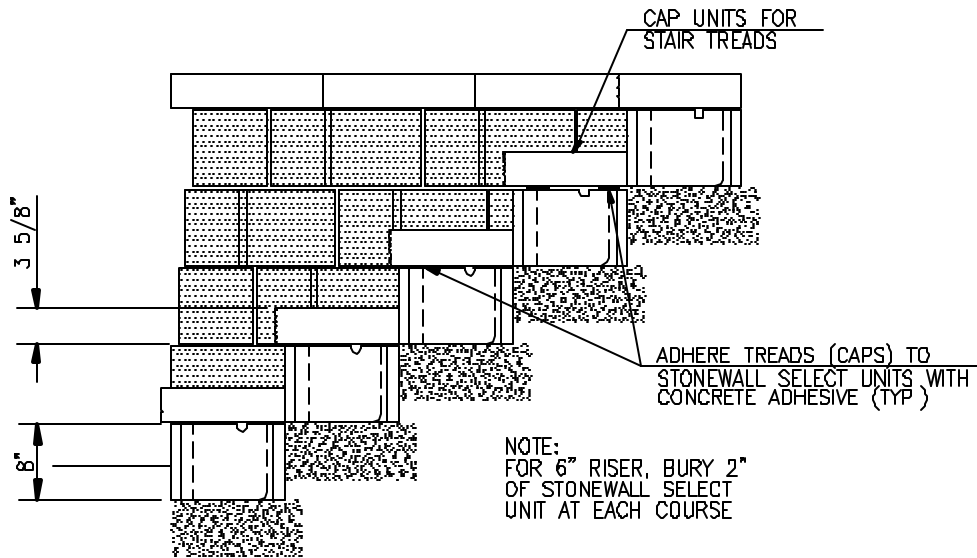


LOWER COURSE



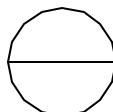
UPPER COURSE

CORNER DETAIL
NTS



SECTION

STEP DETAIL

 CORNER & STEP DETAILS

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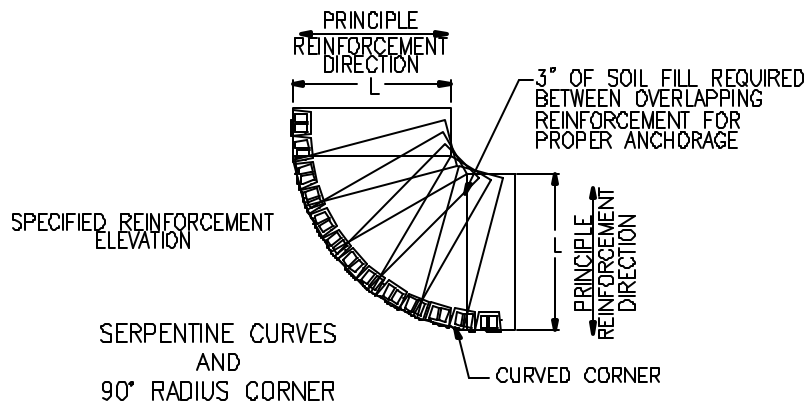
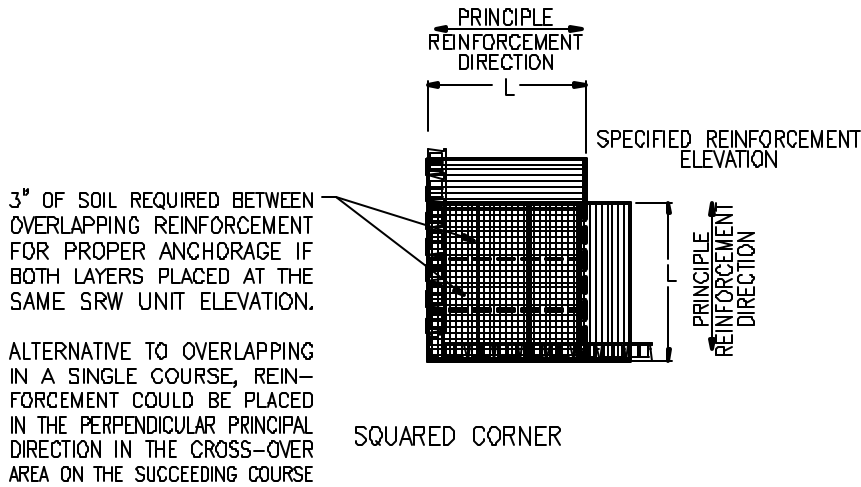
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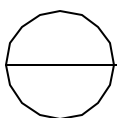
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REINFORCEMENT PLACEMENT FOR CONVEX CORNERS



SQUARE & CONVEX OUTSIDE CORNER DETAILS

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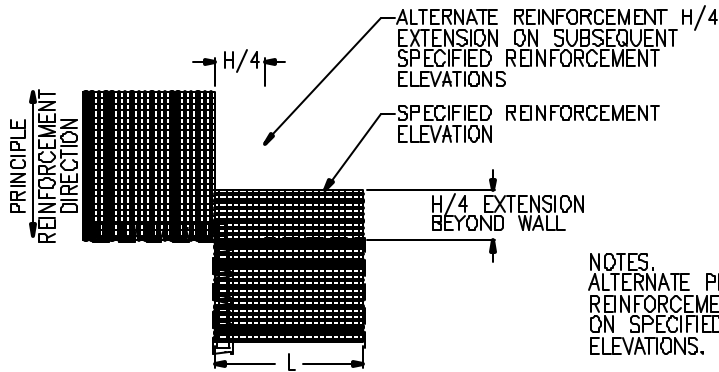
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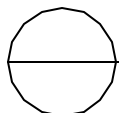
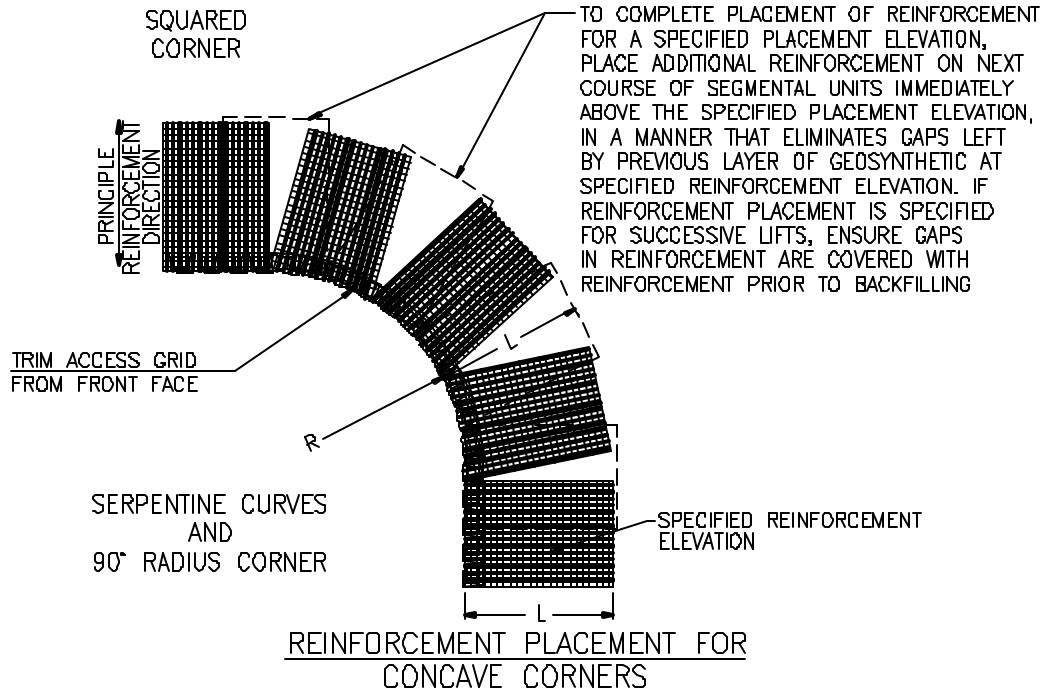


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NOTES:
ALTERNATE PLACEMENT OF REINFORCEMENT EXTENSION ON SPECIFIED REINFORCEMENT ELEVATIONS.



SQUARE & CONCAVE INSIDE CORNER DETAILS

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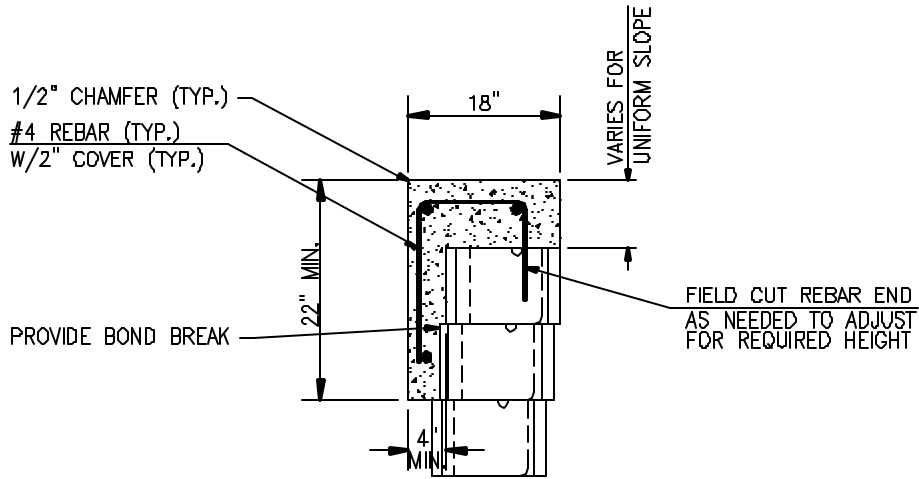
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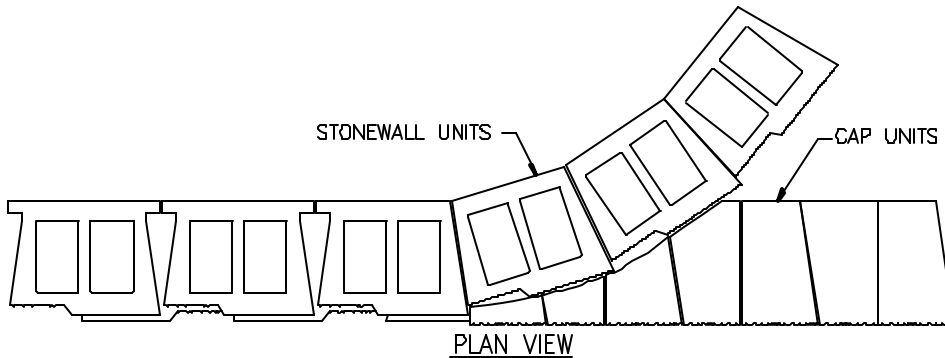
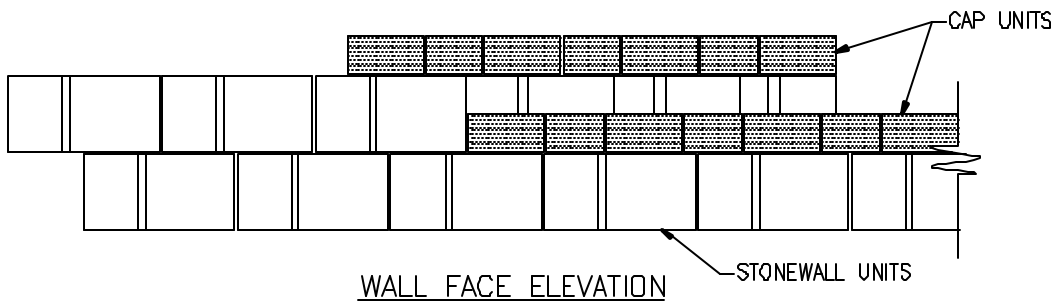


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OPTIONAL CIP COPING
(SECTION VIEW)



WALL ELEVATION CHANGE
(TERRACED CURVE)

○ CIP COPING & WALL ELEVATIONS

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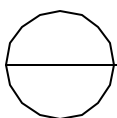
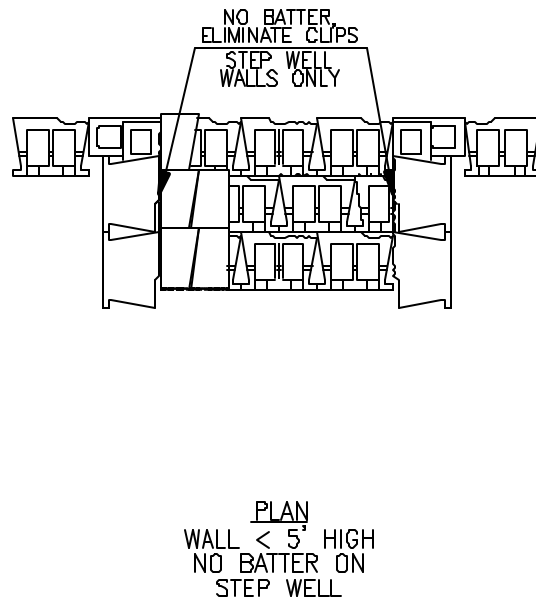
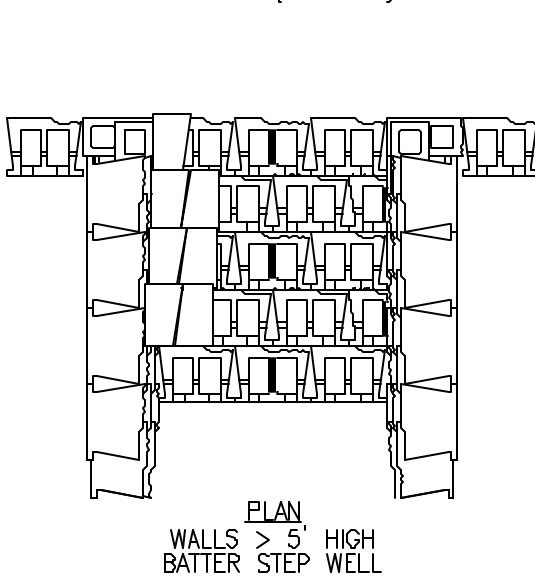
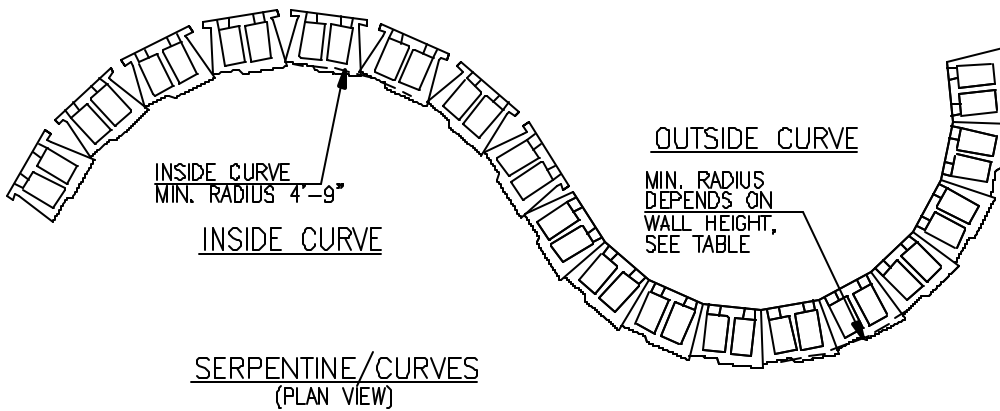
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MAX. TOTAL WALL HEIGHT (FEET)	MIN. RADIUS 1st COURSE (BOW)
20	6'-7"
18	6'-5"
16	6'-3"
14	6'-1"
12	5'-10"
10	5'-8"
8	5'-6"
6	5'-4"
4	5'-2"
2	5'-0"



SERPENTINE CURVE & STEP WELL

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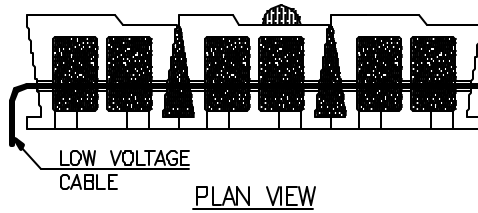
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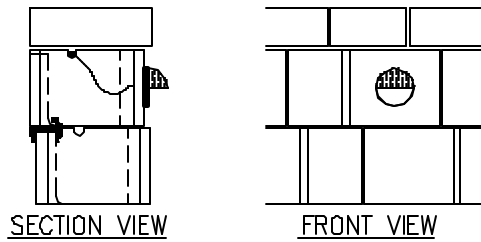


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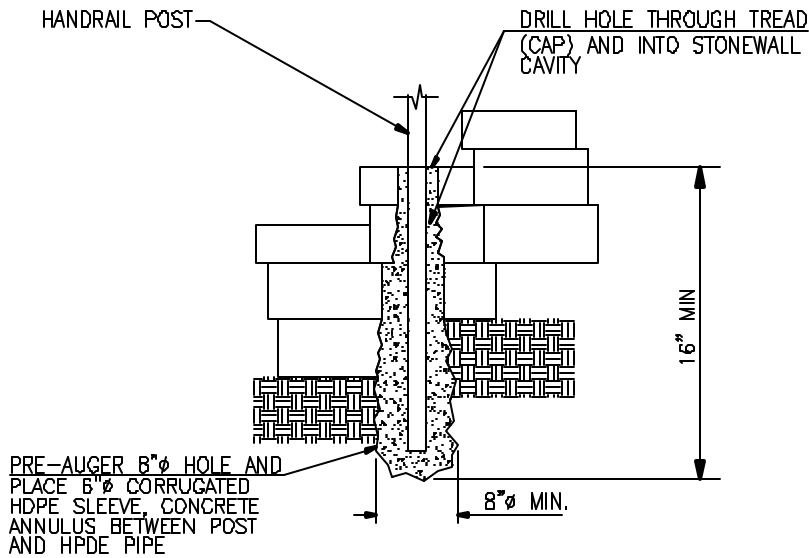


FRONT  SIDE 

4" DIAMETER FISHEYE 12 VOLT LIGHT



LOW VOLTAGE LIGHTING
DETAIL



TYPICAL HANDRAIL POST
AT STAIRS

 LOW VOLTAGE LIGHTING & HANDRAIL POST DETAILS

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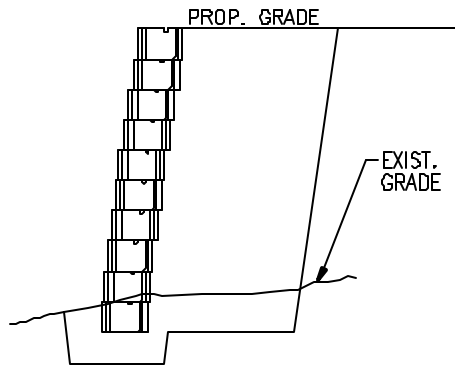
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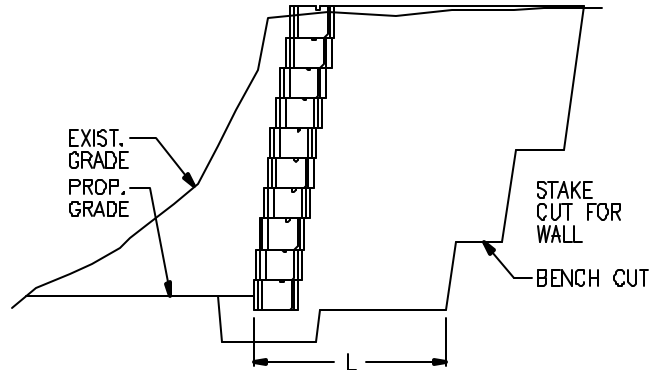
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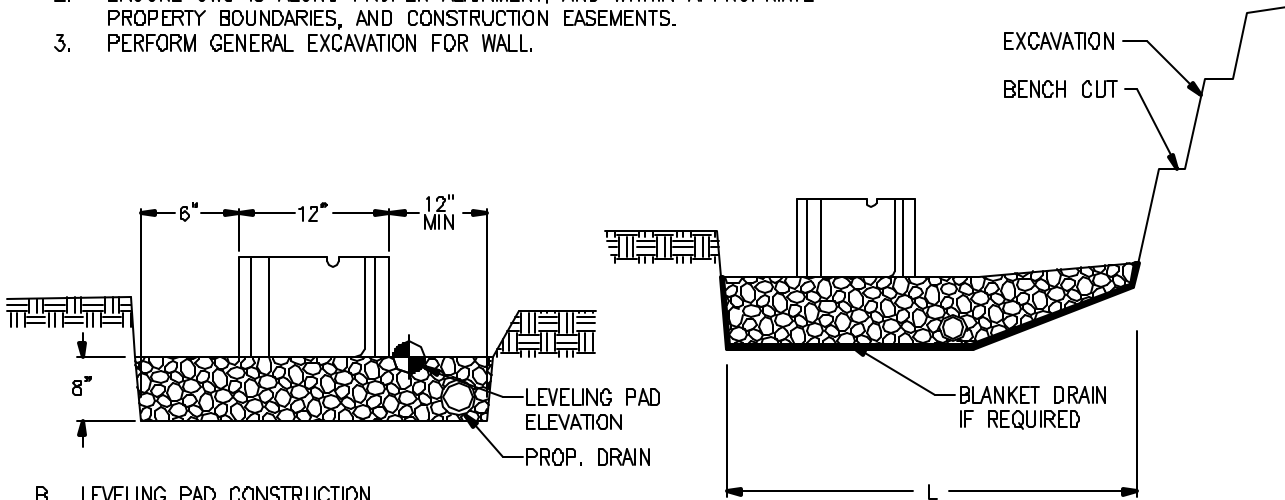
FILL WALL



CUT WALL

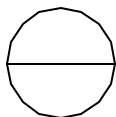
A. WALL LAYOUT AND GENERAL EXCAVATION

1. SURVEY STAKE SWS LOCATION AND GENERAL EXCAVATION LIMITS FOR WALL CONSTRUCTION.
2. ENSURE SWS IS ALONG PROPER ALIGNMENT, AND WITHIN APPROPRIATE PROPERTY BOUNDARIES, AND CONSTRUCTION EASEMENTS.
3. PERFORM GENERAL EXCAVATION FOR WALL.



B. LEVELING PAD CONSTRUCTION

1. STAKE WALL LOCATION FOR LEVELING PAD EXCAVATION.
2. EXCAVATE TRENCH TO CREATE A MIN. LEVELING PAD THICKNESS OF 6" AND TO THE MINIMUM WIDTH SHOWN.
3. INSTALL DRAIN PIPE WITH POSITIVE GRAVITY FLOW TO OUTLET.
4. PLACE, LEVEL AND COMPACT LEVELING PAD MATERIAL FOR SWS UNITS
5. PLACE AND COMPACT AGGREGATE BLANKET DRAIN, INSTALL GEOTEXTILE IF REQUIRED.



CONSTRUCTION SEQUENCE - STEP 1

EXCAVATION AND LEVELING PAD

SEE DETAILS 099-011 TO 099-015

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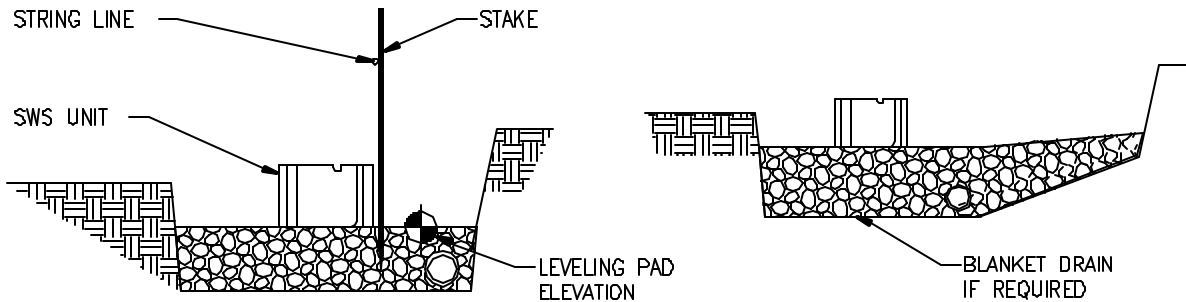
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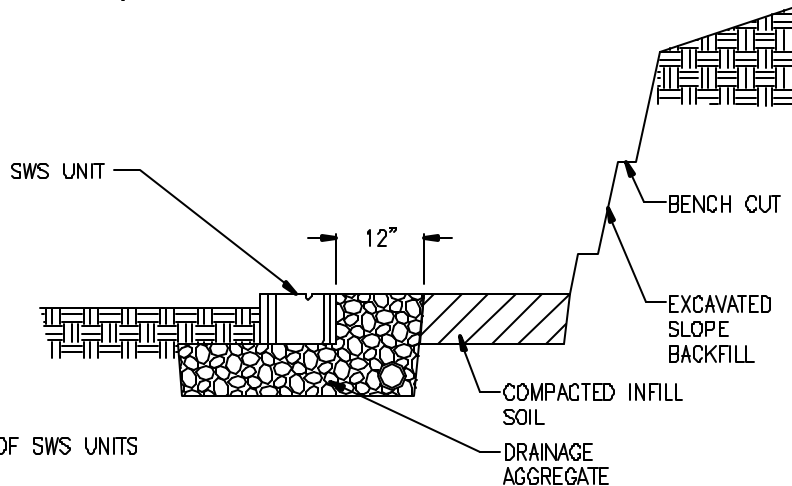


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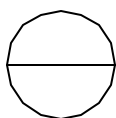
A. SETTING FIRST COURSE OF SWS UNITS

1. CHECK LEVELING PAD ELEVATION AND SMOOTH LEVELING PAD SURFACE.
2. STAKE AND STRING LINE THE WALL LOCATION, PAY CLOSE ATTENTION TO EXACT LOCATION OF CURVES, CORNERS, VERTICAL AND HORIZONTAL STEPS. STRING LINE MUST BE ALONG A MOLDED FACE OF THE SWS UNIT, AND NOT ALONG A BROKEN BLOCK FINISH SURFACE.
3. INSTALL FIRST COURSE OF SWS UNITS, CHECKING LEVEL AS PLACED.



B. BACKFILLING FIRST COURSE OF SWS UNITS

1. RECHECK WALL LOCATION.
2. USE DRAINAGE AGGREGATE TO FILL ANY OPENINGS IN AND BETWEEN SWS UNITS
3. CAREFULLY PLACE DRAINAGE AGGREGATE BEHIND AND UP TO THE HEIGHT OF SWS UNIT TO CREATE WALL FACE DRAIN. INSTALL GEOTEXTILE IF REQUIRED.
4. PLACE AND COMPACT INFILL SOIL BEHIND WALL DRAIN.
5. PLACE FILL SOIL IN FRONT OF SWS UNIT.
6. COMPACT DRAINAGE AGGREGATE AND INFILL SOIL



CONSTRUCTION SEQUENCE - STEP 2

FIRST COURSE OF SWS UNITS

SEE DETAILS 099-011 TO 099-015

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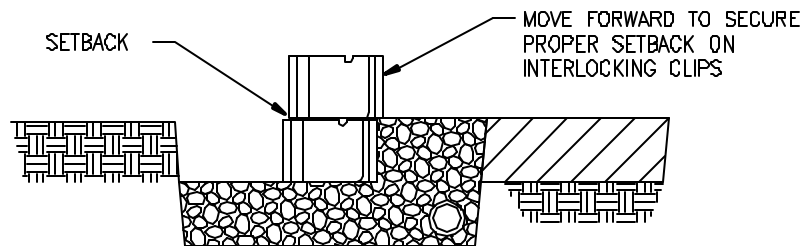
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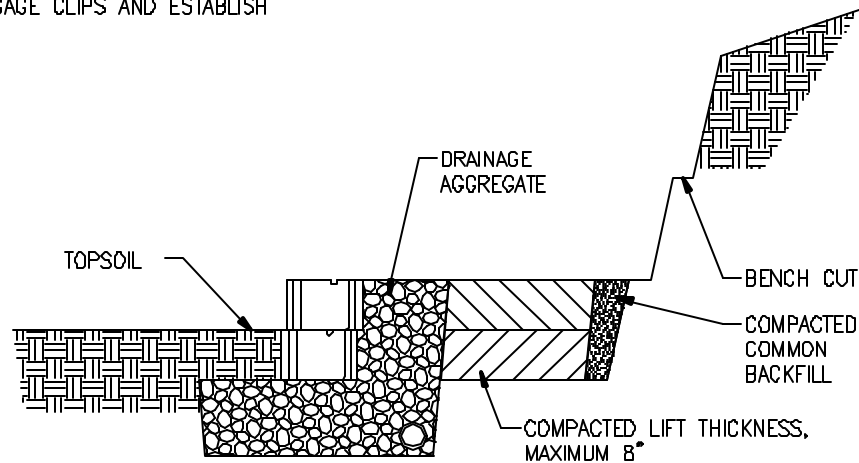
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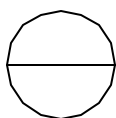
A. INSTALLING SUCCESSIVE COURSES OF SWS UNITS

1. ENSURE THE DRAINAGE AGGREGATE IS LEVEL WITH, OR SLIGHTLY BELOW THE TOP OF SWS UNIT BELOW.
2. CLEAN DEBRIS OFF TOP OF UNIT.
3. PLACE SWS UNIT INTERLOCKING CLIPS.
4. MOVE SWS UNIT TO ENGAGE CLIPS AND ESTABLISH PROPER SETBACK.



B. FILL PLACEMENT AND COMPACTION

1. USE DRAINAGE AGGREGATE TO FILL OPENINGS IN AND BETWEEN SWS UNITS
2. PLACE DRAINAGE AGGREGATE BEHIND AND UP TO HEIGHT OF SWS UNIT TO CONTINUE WALL FACE DRAIN. INSTALL GEOTEXTILE IF REQUIRED.
3. PLACE AND COMPACT INFILL SOIL BEHIND WALL DRAIN.
4. COMPACT DRAINAGE AGGREGATE AND INFILL SOIL.



CONSTRUCTION SEQUENCE - STEP 3

PLACEMENT & BACKFILLING OF SWS UNITS

SEE DETAILS 099-011 TO 099-015

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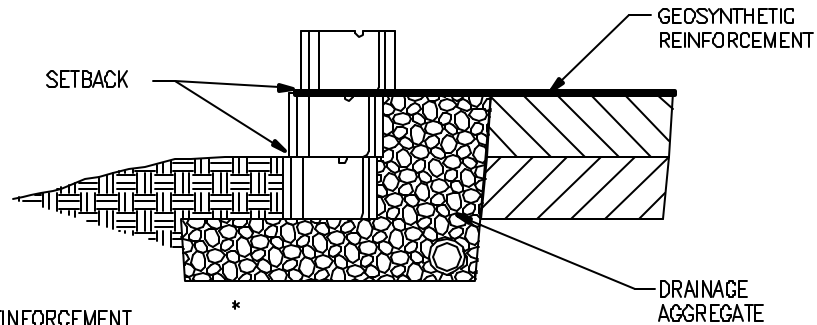
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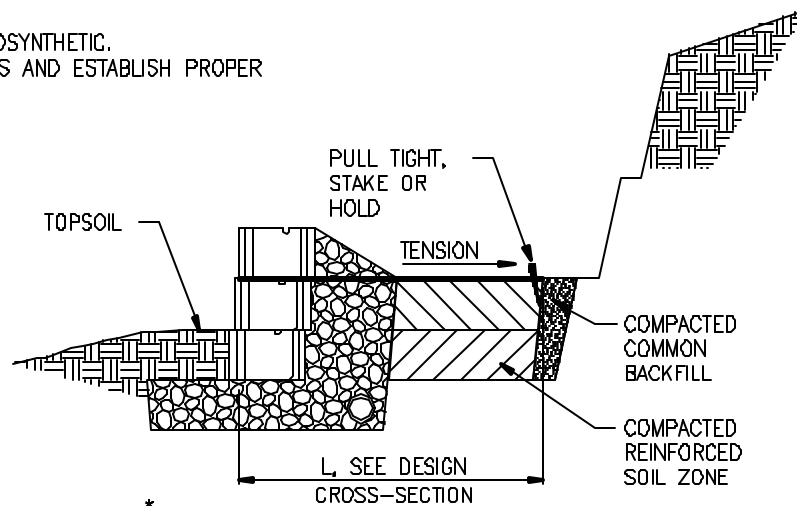


A. PLACEMENT OF GEOSYNTHETIC REINFORCEMENT

1. ENSURE WALL FACE DRAINAGE AGGREGATE IS LEVEL WITH, OR SLIGHTLY ABOVE THE TOP OF SWS UNIT.
2. CLEAN DEBRIS OFF TOP OF UNIT.
3. CUT GEOSYNTHETIC REINFORCEMENT TO DESIGN LENGTH "L" AS SHOWN ON PLANS AND INSTALL WITH STRENGTH DIRECTION PERPENDICULAR TO WALL FACE.
4. PLACE INTERLOCKING CLIPS.
5. PLACE SWS UNIT ON TOP OF GEOSYNTHETIC.
6. MOVE SWS UNIT TO ENGAGE CLIPS AND ESTABLISH PROPER SETBACK.

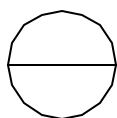
*** NOTES:**

1. SEQUENCE OF BACKFILLING STEPS MAY VARY AND ARE DEPENDENT ON TYPE OF GEOSYNTHETIC REINFORCEMENT USED.
2. ALIGNMENT OF STRAIGHT WALLS SHOULD BE CHECKED EVERY OTHER COURSE.



B. BACKFILLING OVER GEOSYNTHETIC REINFORCEMENT *

1. PULL GEOSYNTHETIC REINFORCEMENT TAUT, USING UNIFORM TENSION, HOLD OR STAKE TO MAINTAIN TENSION THROUGHOUT FILL PLACEMENT PROCESS.
2. PLACE DRAINAGE AGGREGATE FOR WALL FACE DRAIN IN AND BETWEEN SWS UNITS.
3. PLACE INFILL SOIL.
4. COMPACT INFILL SOIL.
5. COMPACT DRAINAGE AGGREGATE.
6. PLACE REMAINDER OF AGGREGATE DRAIN.



CONSTRUCTION SEQUENCE - STEP 4

GEOSYNTHETIC REINFORCEMENT INSTALLATION

SEE DETAILS 099-011 TO 099-015

NAME/COMPANY:

PHONE:

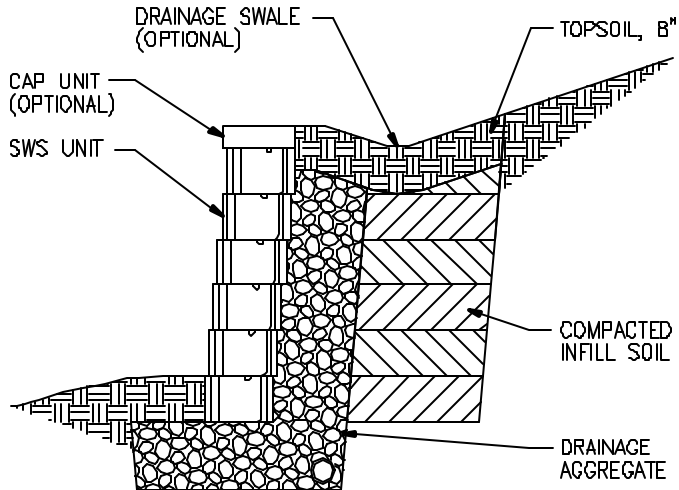
JOB NAME:

JOB #:

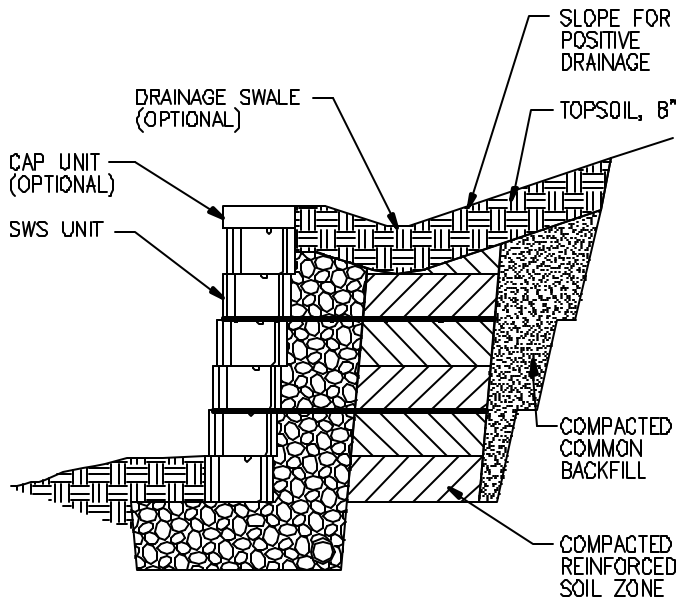
DATE:



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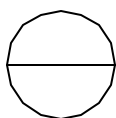
A. COMPLETED GRAVITY SWS



B. COMPLETED REINFORCED SWS

STEPS A & B

1. CONTINUE WALL TO FULL HEIGHT USING STEPS 3 & 4
2. INSTALL SWS CAP/COPING UNIT (OPTIONAL).
3. PLACE AND COMPACT FINAL BACKFILL.
4. FINISH GRADE FOR POSITIVE DRAINAGE AWAY FROM WALL FACE, DRAINAGE SWALE IS OPTIONAL
5. PLACE TOPSOIL AND VEGETATE SLOPES ABOVE AND AROUND WALL TERMINATIONS.



CONSTRUCTION SEQUENCE - STEP 5

CAPPING AND GRADING

SEE DETAILS 099-011 TO 099-015

NAME/COMPANY:

PHONE:

JOB NAME:

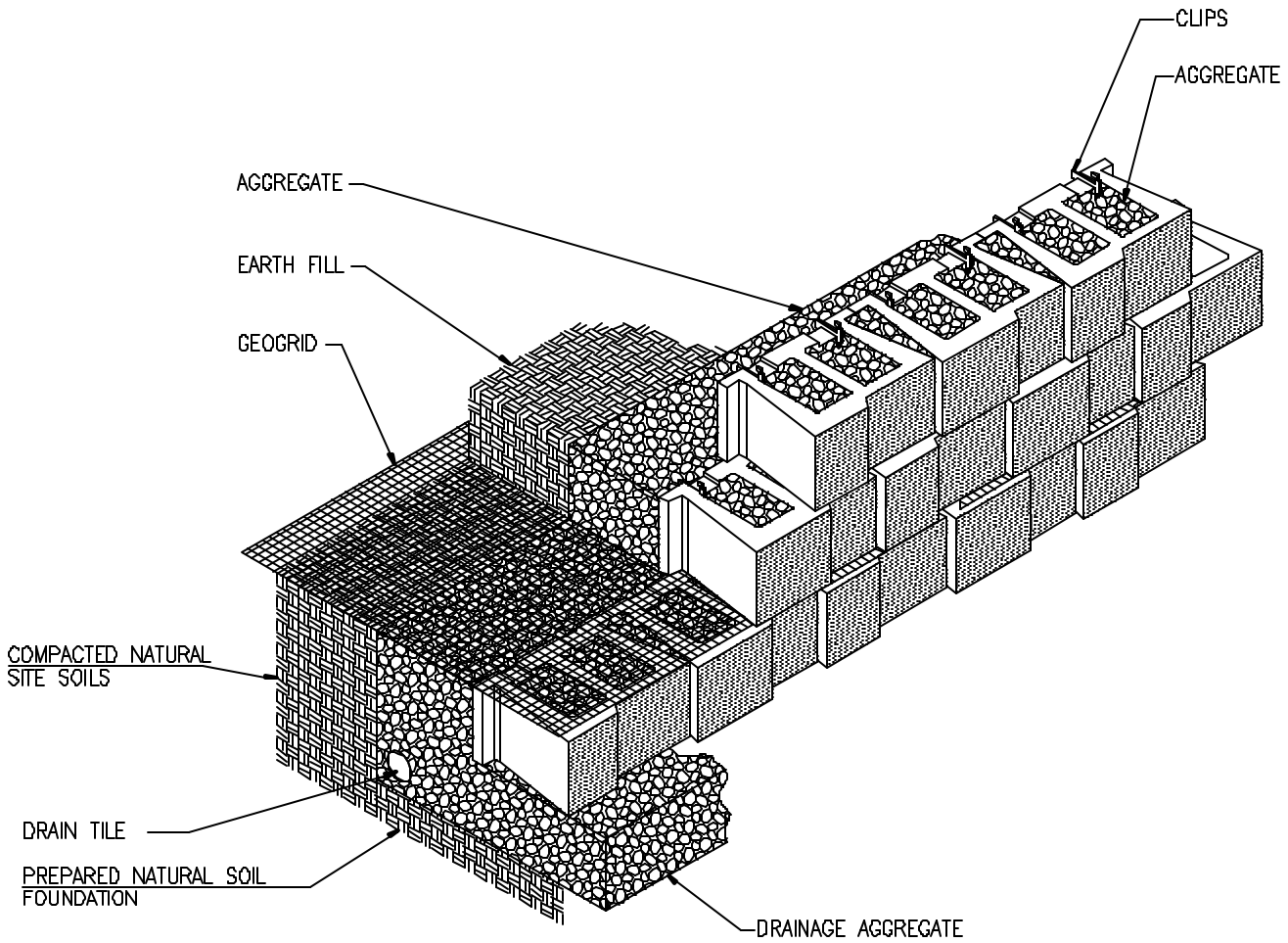
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SOIL REINFORCED WALL DETAIL

NAME/COMPANY:

PHONE:

JOB NAME:

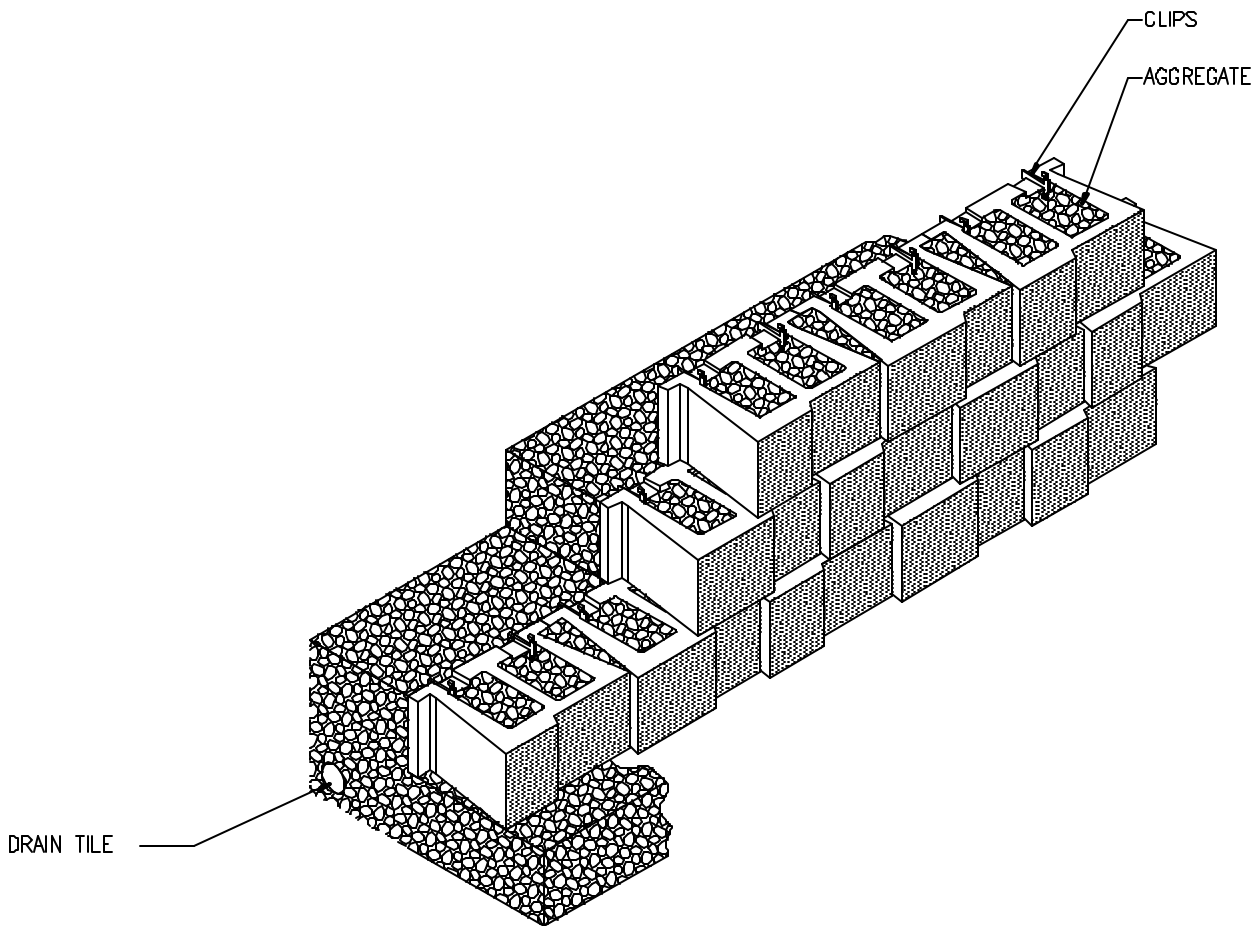
JOB #:

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 GRAVITY WALL DETAIL

NAME/COMPANY:

PHONE:

JOB NAME:

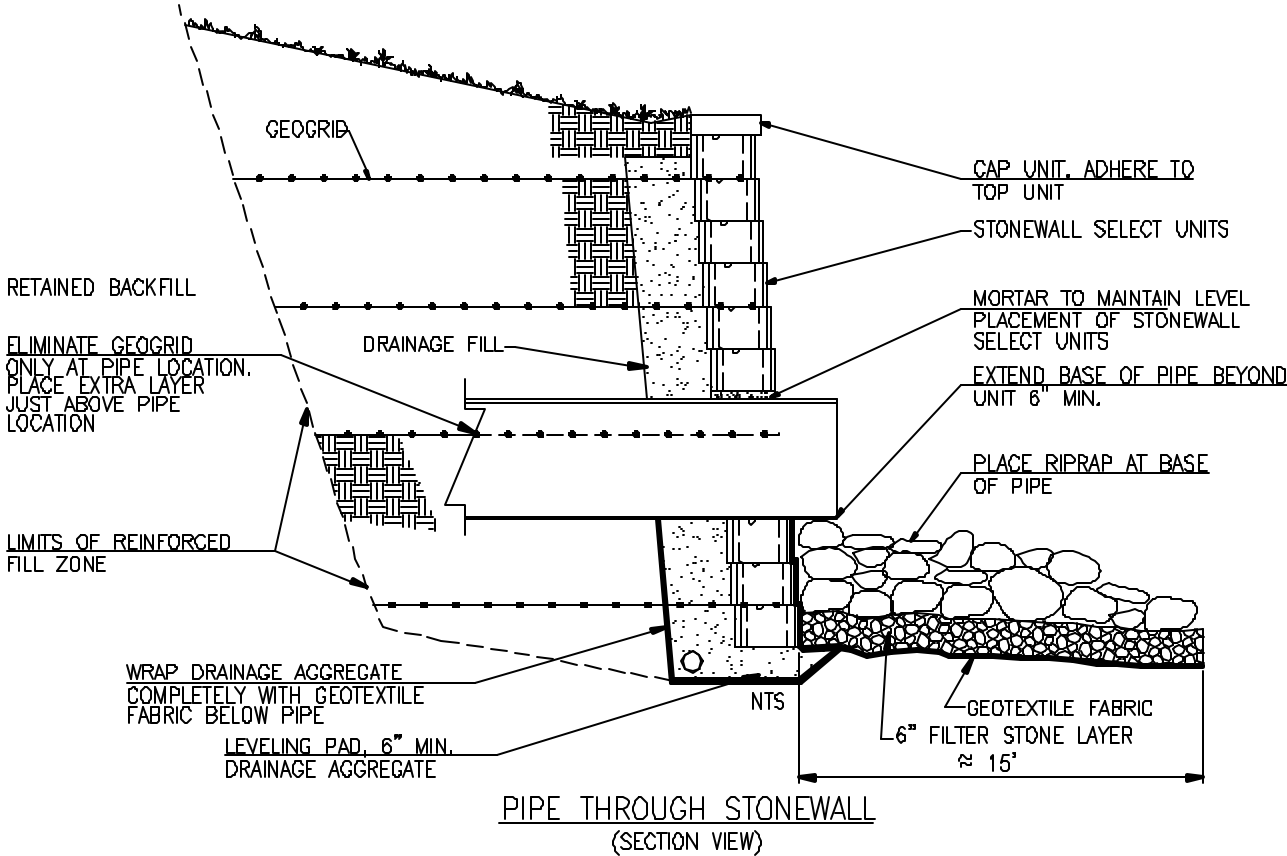
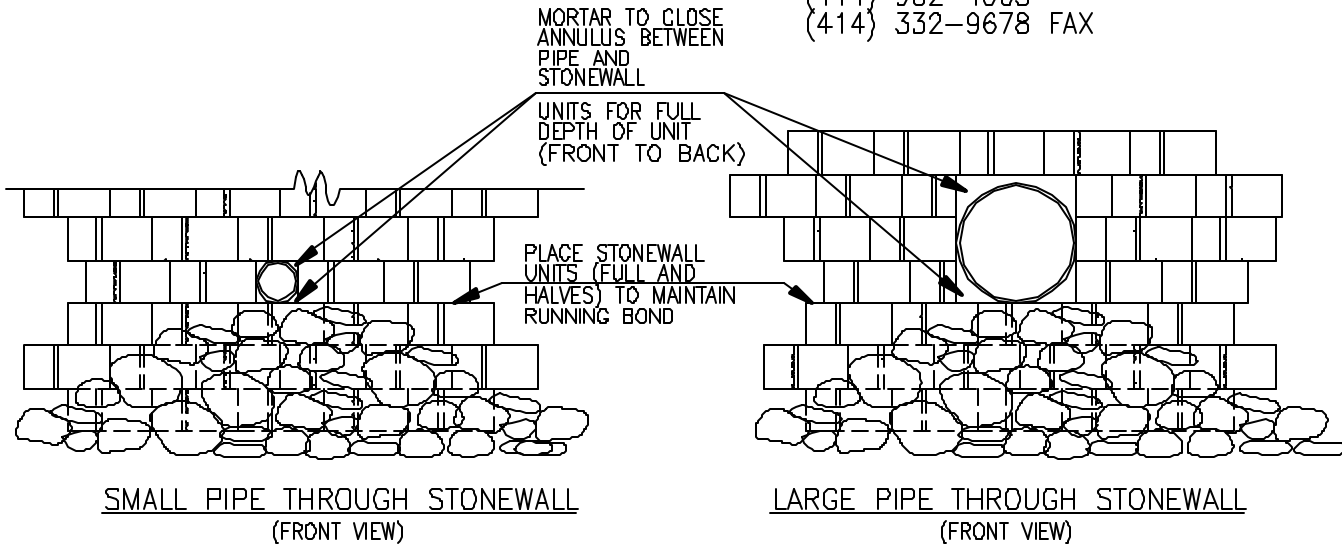
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○ **PIPE THROUGH STONEWALL DETAILS**

NAME/COMPANY:

PHONE:

JOB NAME:

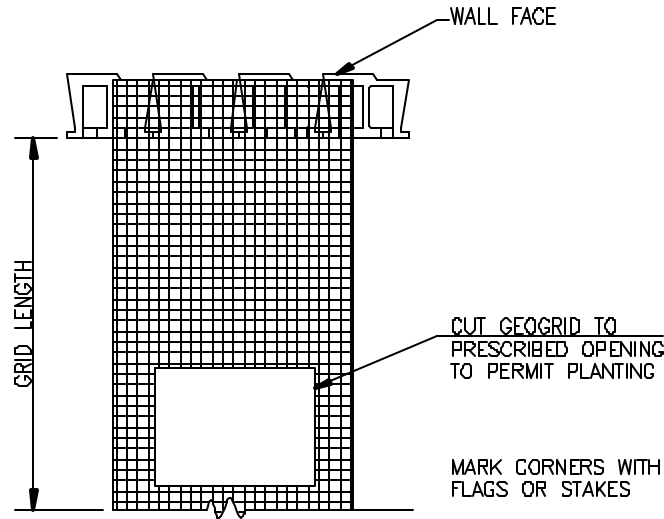
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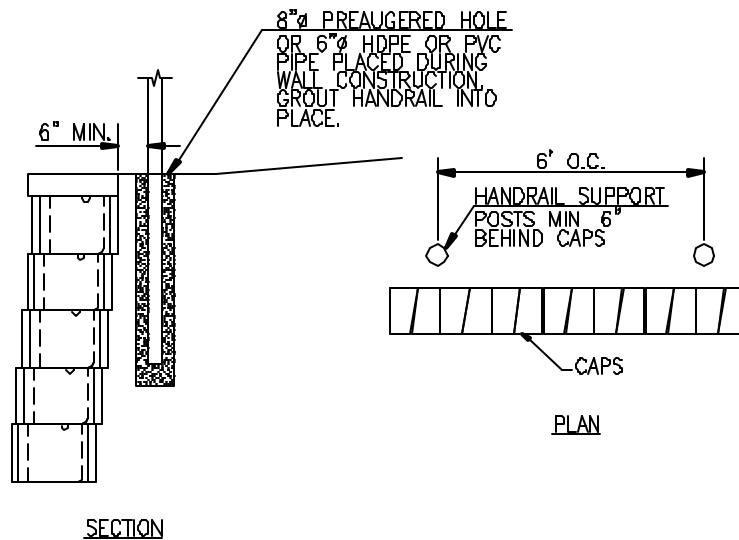


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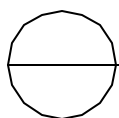
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LANDSCAPE BOX OUTS
(PLAN VIEW)



HANDRAIL DETAIL



TREE PLANTING PROVISION & HANDRAIL DETAILS

NAME/COMPANY:

PHONE:

JOB NAME:

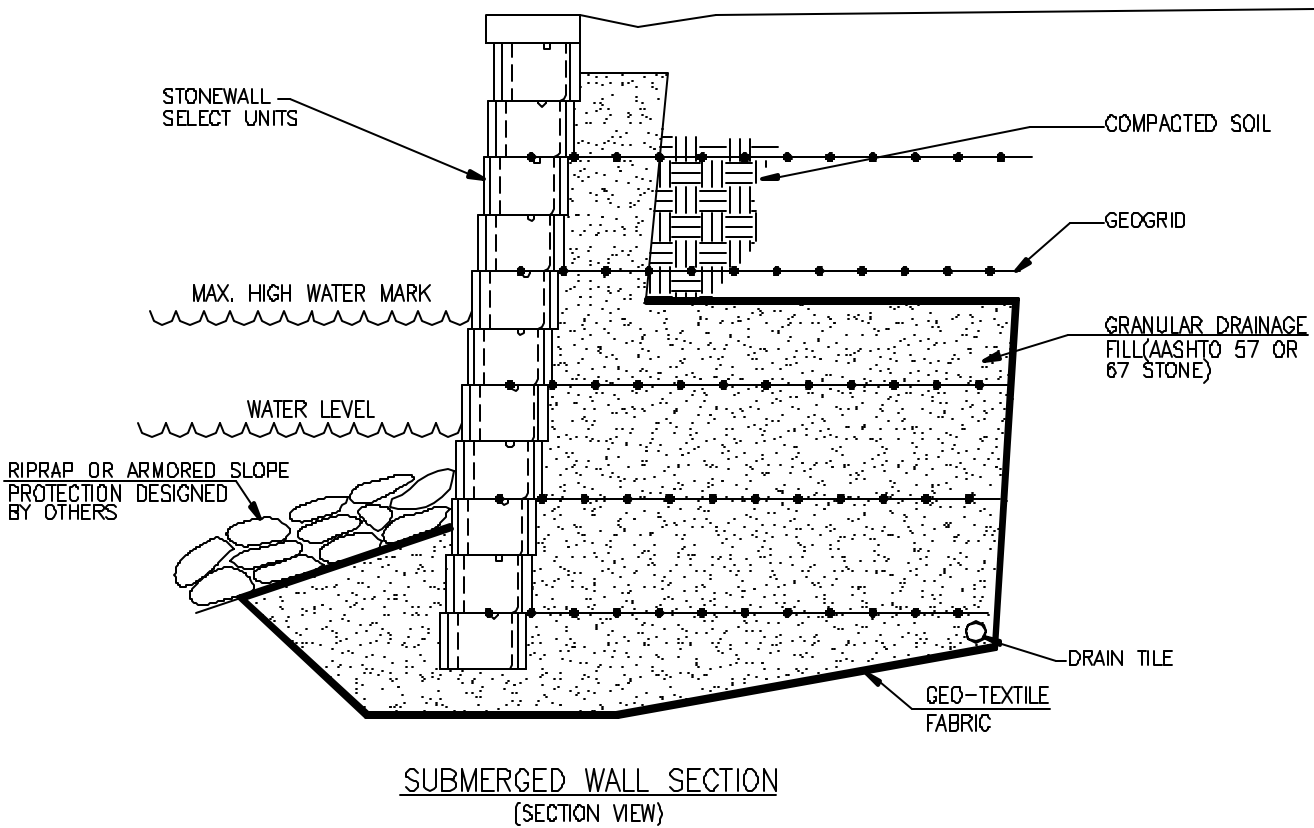
JOB #:

DATE:



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 SUBMERGED WALL SECTION

NAME/COMPANY:

PHONE:

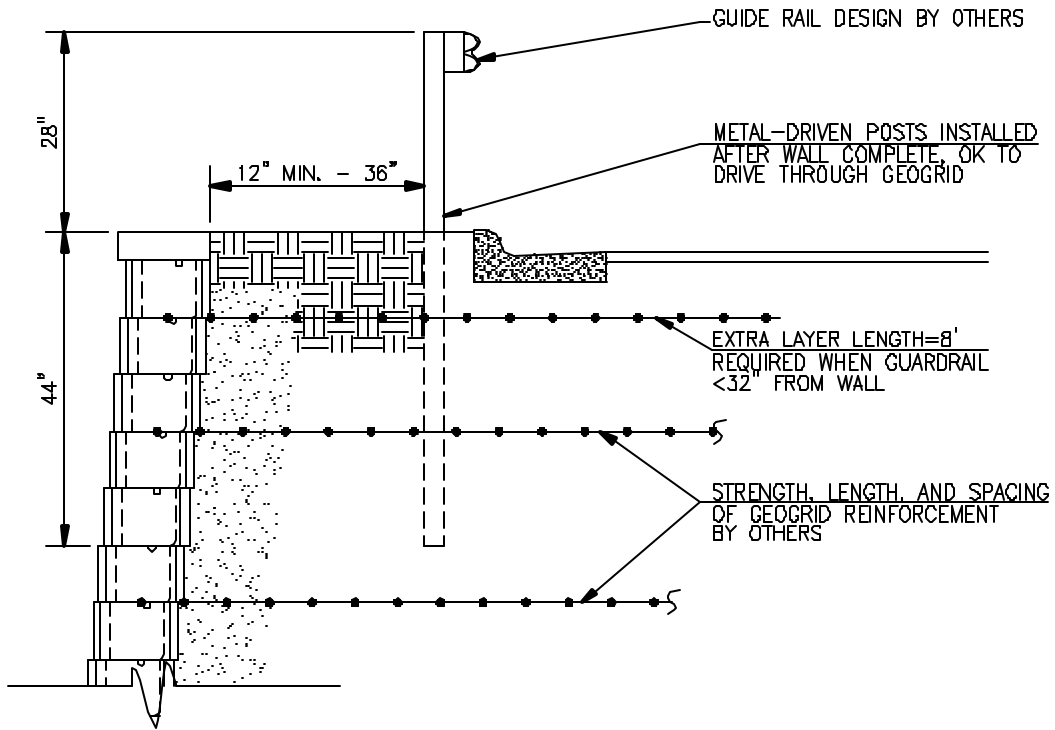
JOB NAME:

JOB #:

DATE:



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GUIDE RAIL DETAIL
(SECTION VIEW)

