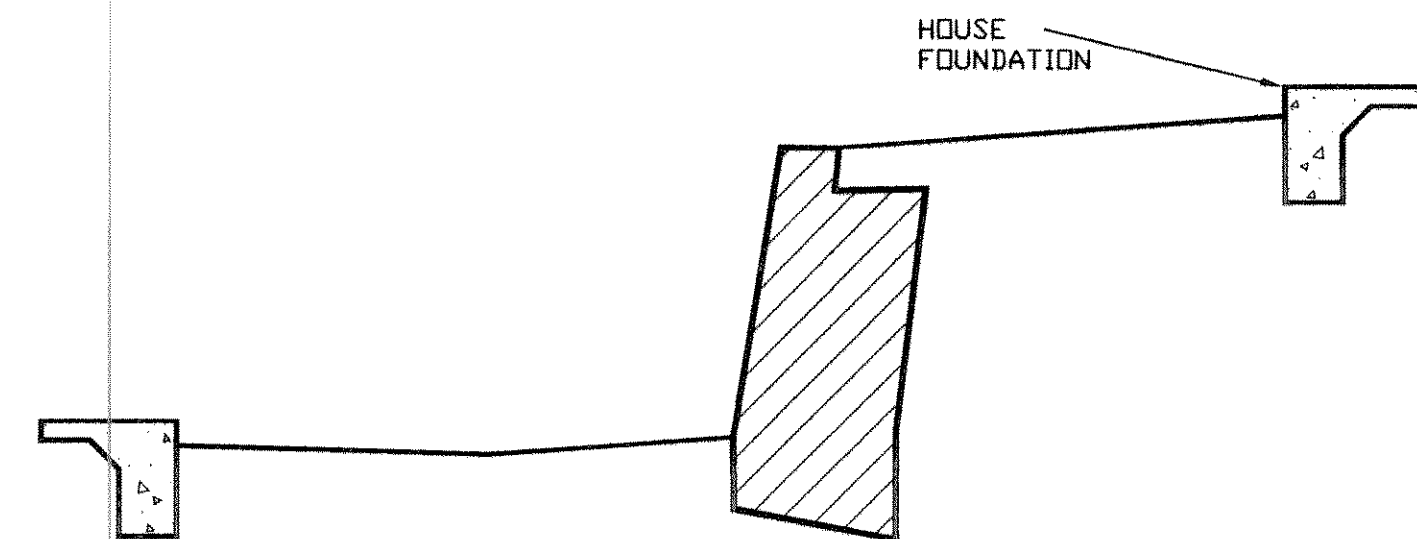
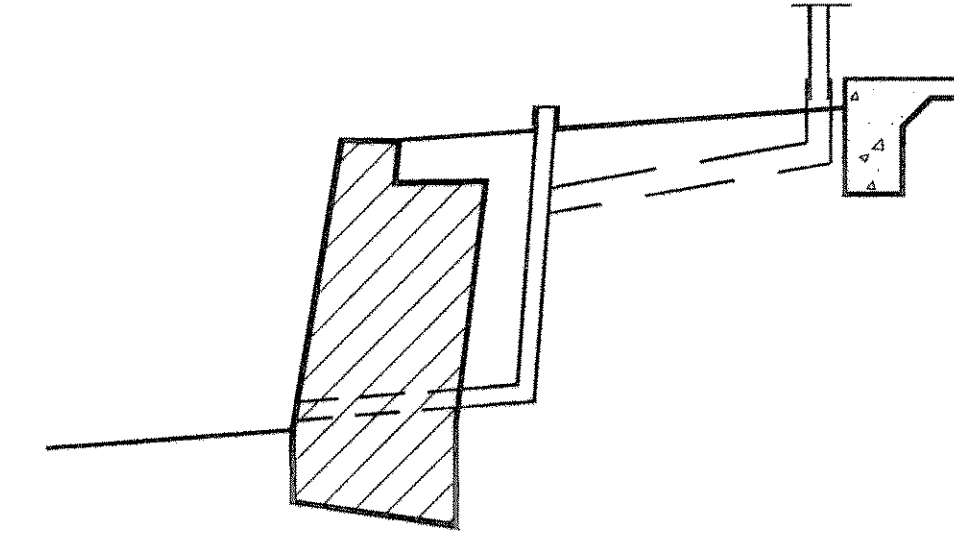


FOUNDATIONS TO BE CONSTRUCTED SHALL HAVE THE BOTTOM OF THE FOUNDATION FOOTING PLACED BELOW THE BEARING PRESSURE INFLUENCE LINE FOR THE RETAINING WALLS. PLACING THE FOOTING ABOVE THE INFLUENCE LINE WILL INCREASE SURCHARGE PRESSURE ON THE RETAINING WALL WHICH IS NOT PERMITTED, UNLESS APPROVED BY FALKOFSKE ENGINEERING, INC.



NOTE: IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO ENSURE THAT POSITIVE DRAINAGE IS PROVIDED AT THE BASE OF WALL AND ABOVE THE WALL DURING THE CONSTRUCTION PHASE OF THE PROJECT. IT IS THE OWNERS RESPONSIBILITY TO ENSURE THAT THE MINIMUM SLOPE AT THE BASE OF WALL AND ABOVE THE WALL IS MAINTAINED DURING THE LIFETIME OF THE WALL. FAILURE TO PROPERLY MAINTAIN THE SLOPE AT THE BASE OF THE WALL AND ABOVE THE WALL MAY ALLOW EXCESSIVE WATER TO ACCUMULATE AT THE BASE OF THE WALL OR BEHIND THE WALL AND ADVERSELY AFFECT THE STABILITY OF THE RETAINING WALLS.

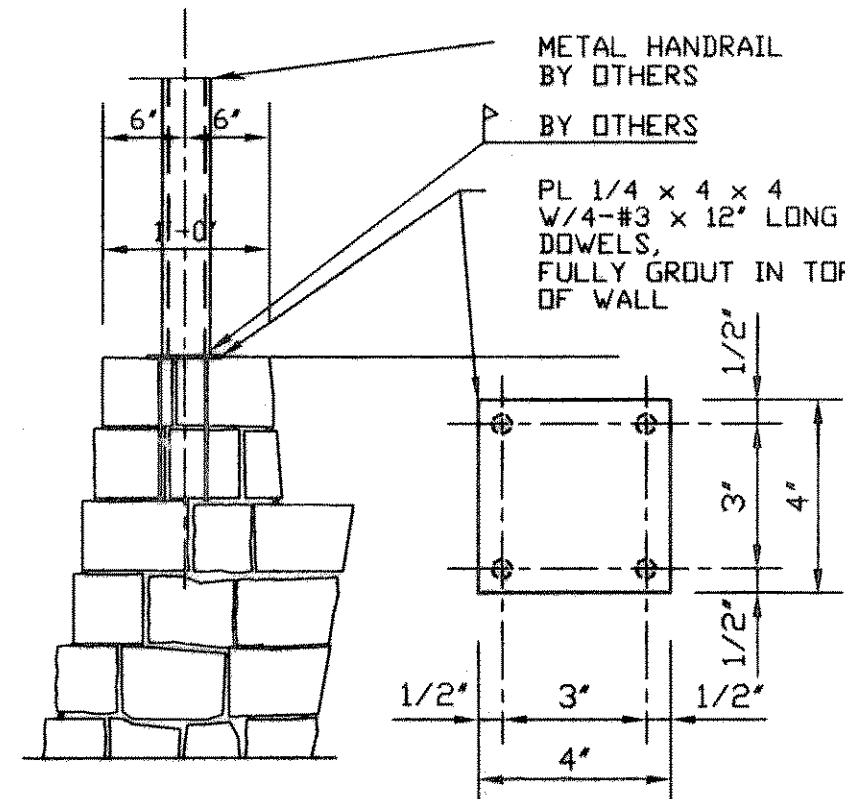


PROVIDE 4" DIA. SOLID PVC PIPE FOR DOWN SPOUT FROM BUILDINGS. COORDINATE LOCATION WITH GENERAL CONTRACTOR. TEMPORARILY CAP OFF PIPE ABOVE FINISH GRADE UNTIL GUTTERS AND DOWN SPOUTS ARE INSTALLED. IDENTIFY THESE PIPES AS "DOWNSPOUT DRAINAGE".

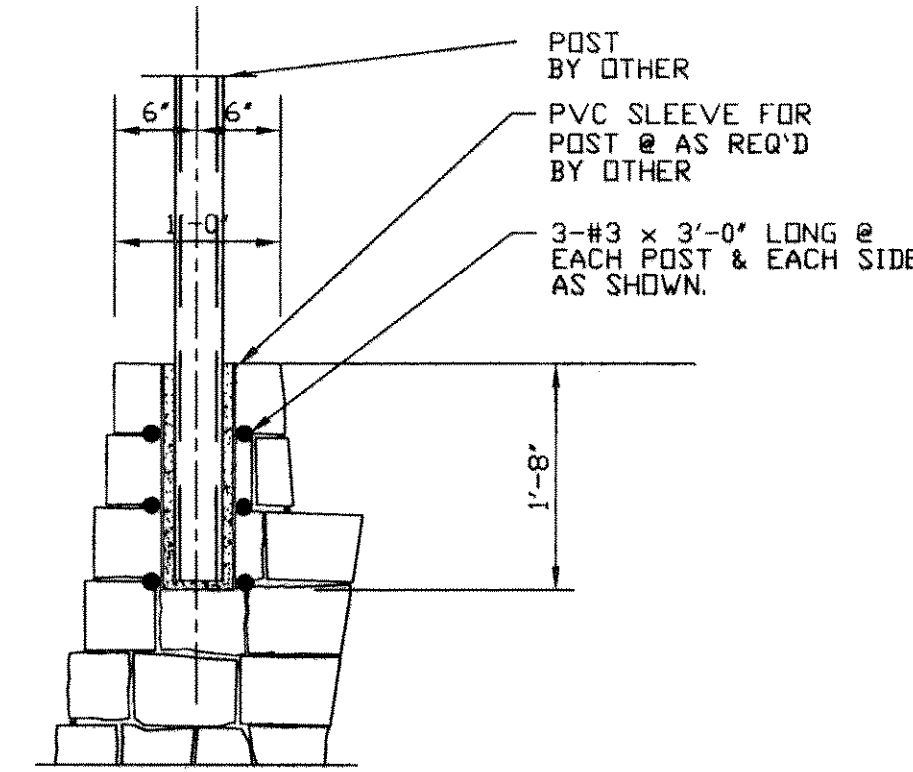
3 TYPICAL WALL SECTION W/ ADJACENT FOUNDATION
RW1 N.T.S.

2 CONTRACTOR TO BUILD SLOPE
OWNER TO MAINTAIN SLOPE
RW1 N.T.S.

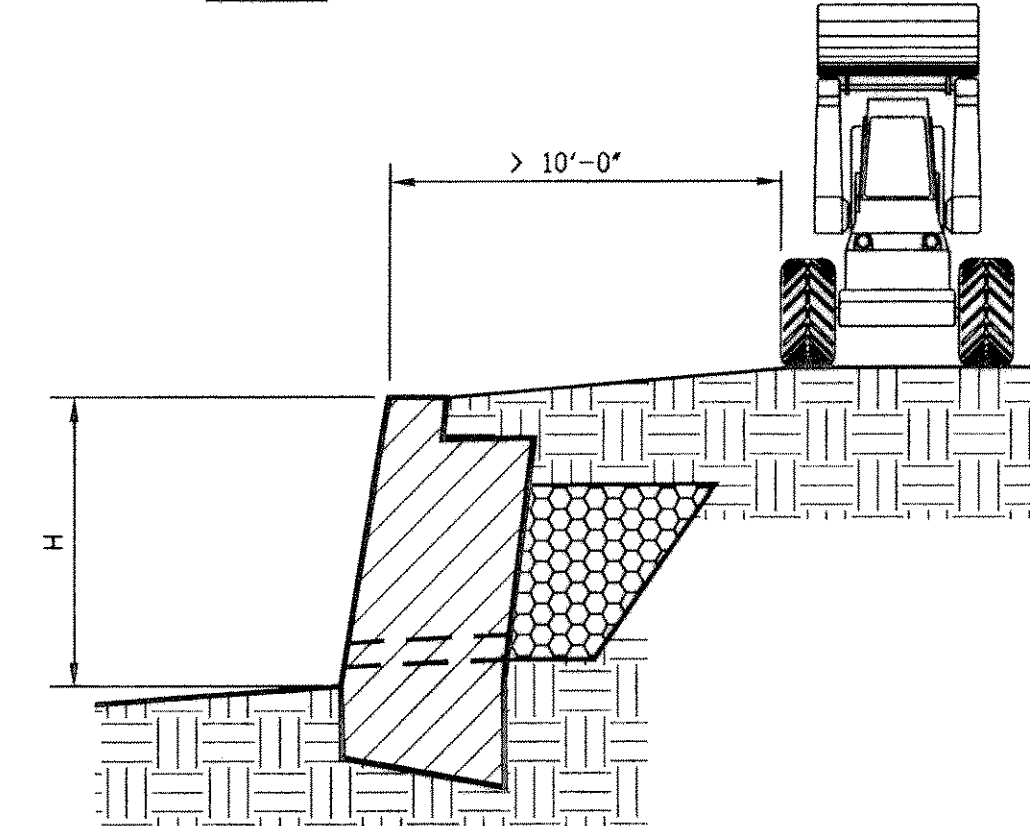
1 DOWNSPOUT DRAINAGE PIPES
RW1 N.T.S.



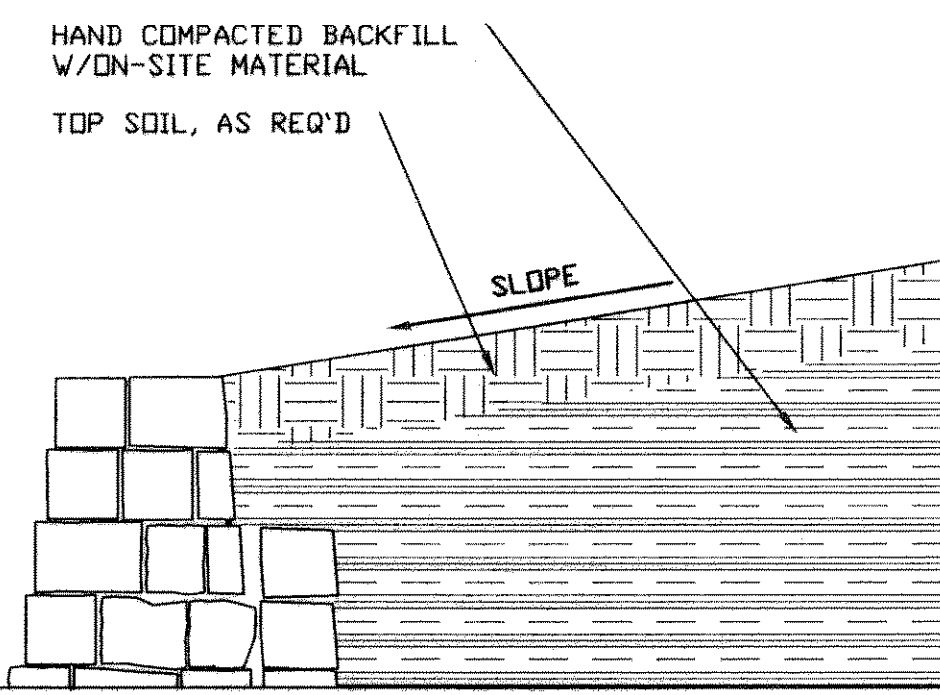
6 WALL SECTION W/HANDRAIL POST
RW1 CONTRACTOR OPTION N.T.S.



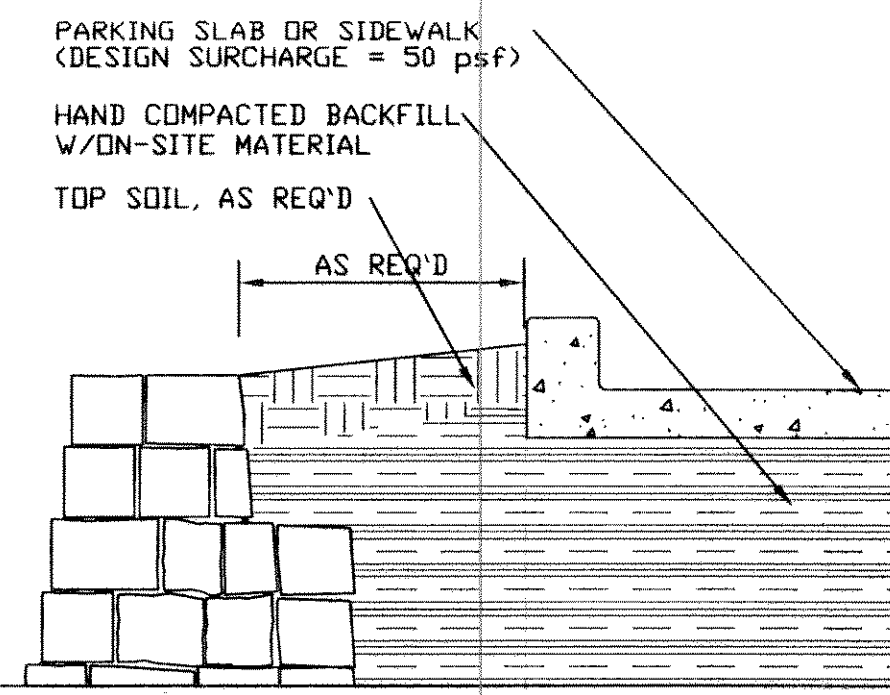
5 WALL SECTION W/HANDRAIL POST
RW1 CONTRACTOR OPTION N.T.S.



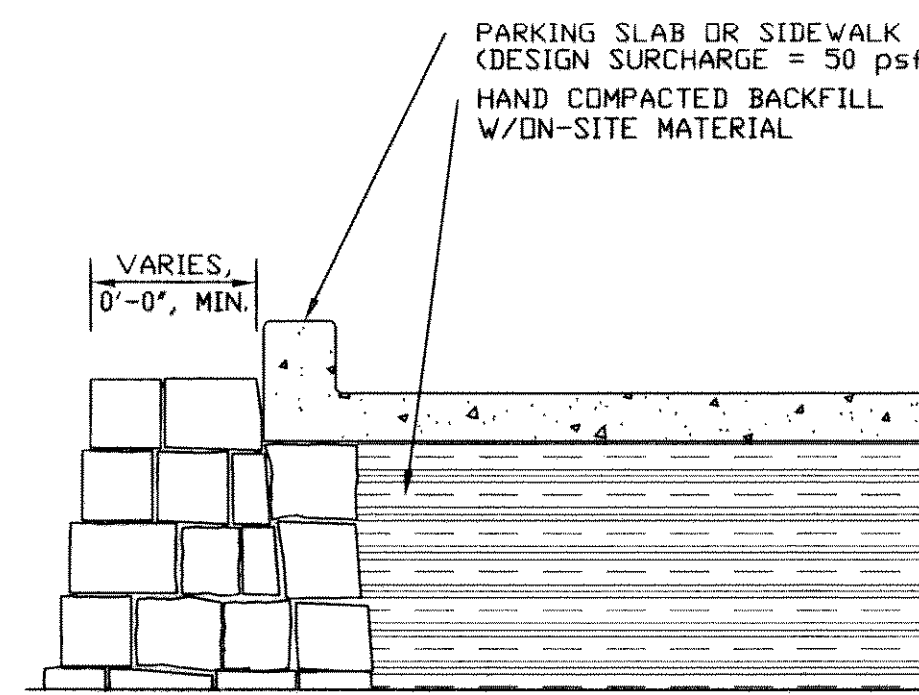
4 TRACTOR ABOVE WALL - MINIMUM DISTANCE
RW1 N.T.S.



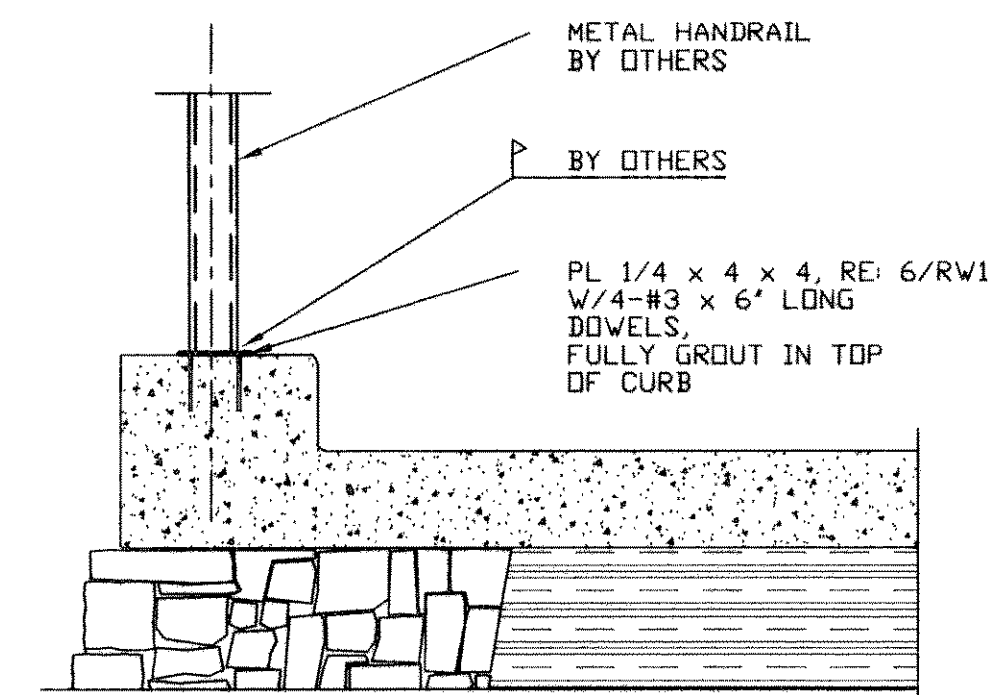
C RW1 N.T.S.



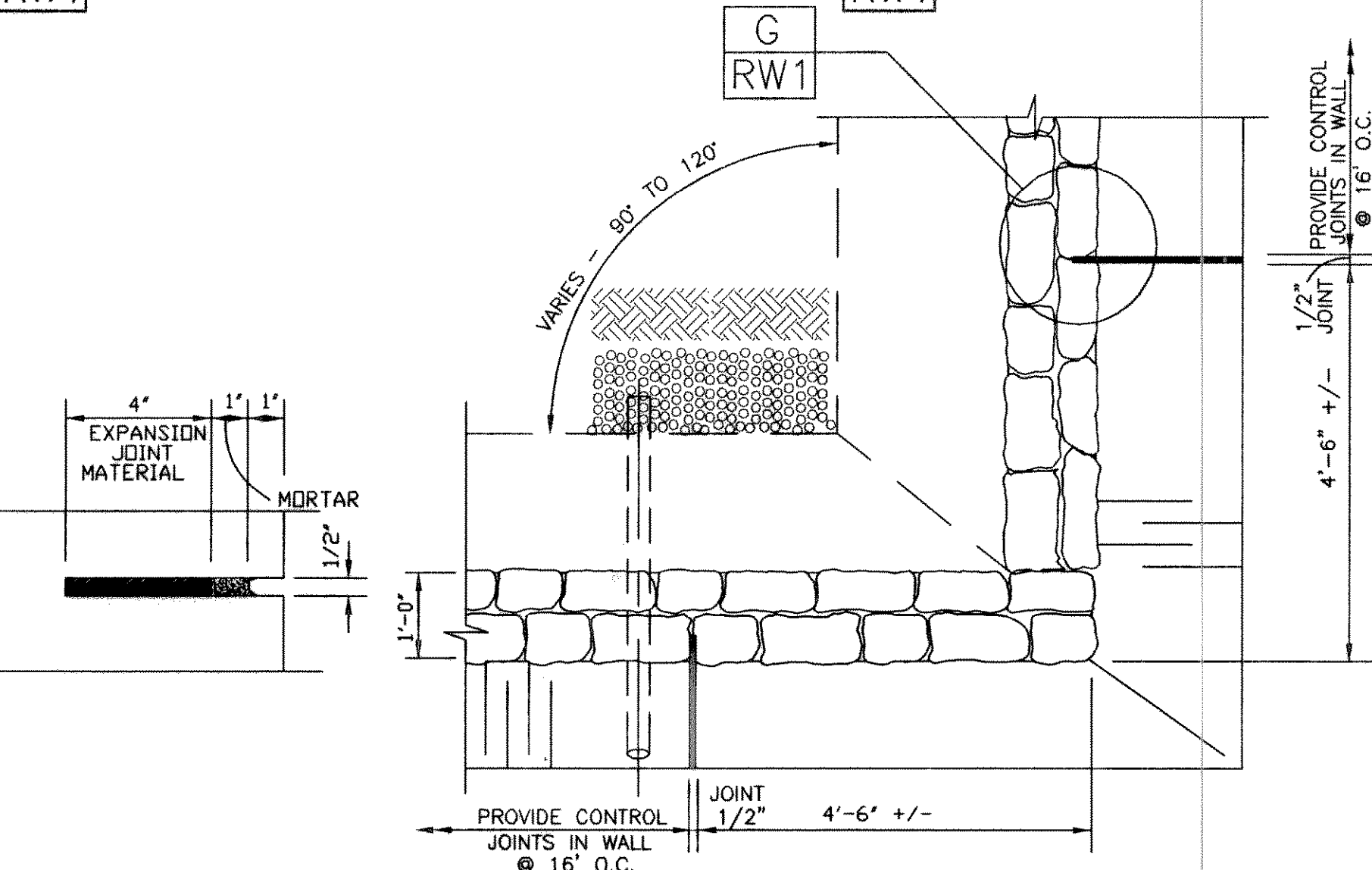
B RW1 N.T.S.



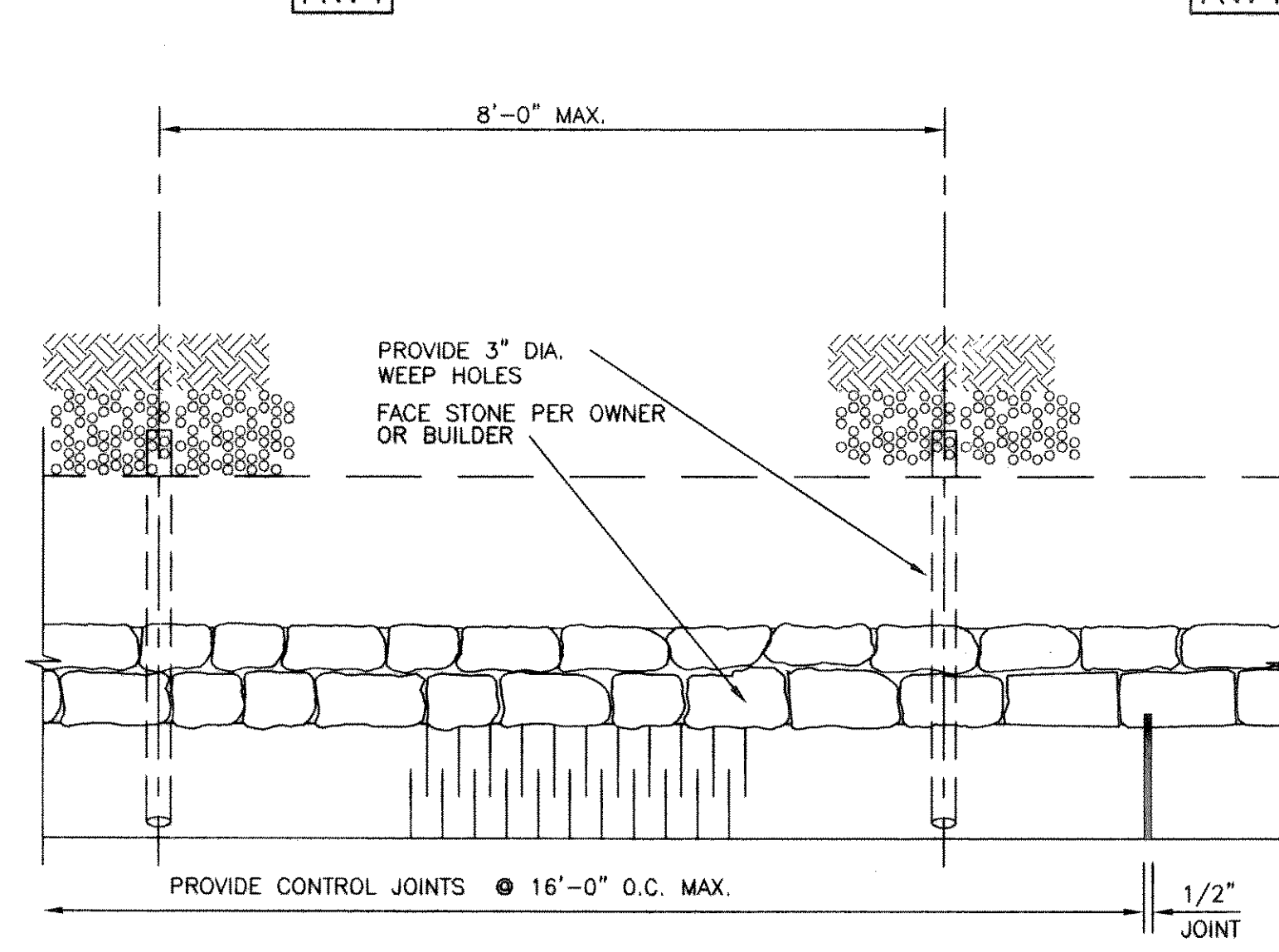
A RW1 N.T.S.



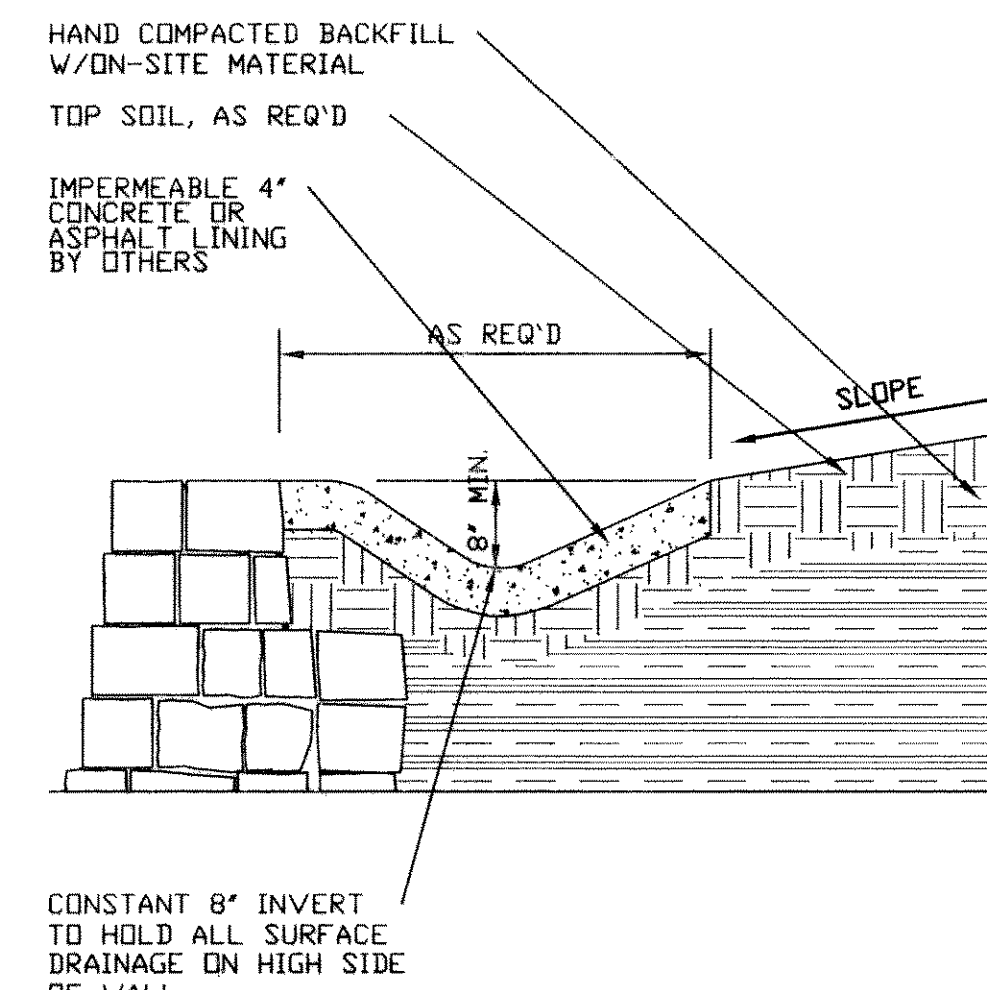
7 WALL SECTION W/HANDRAIL POST
RW1 CONTRACTOR OPTION N.T.S.



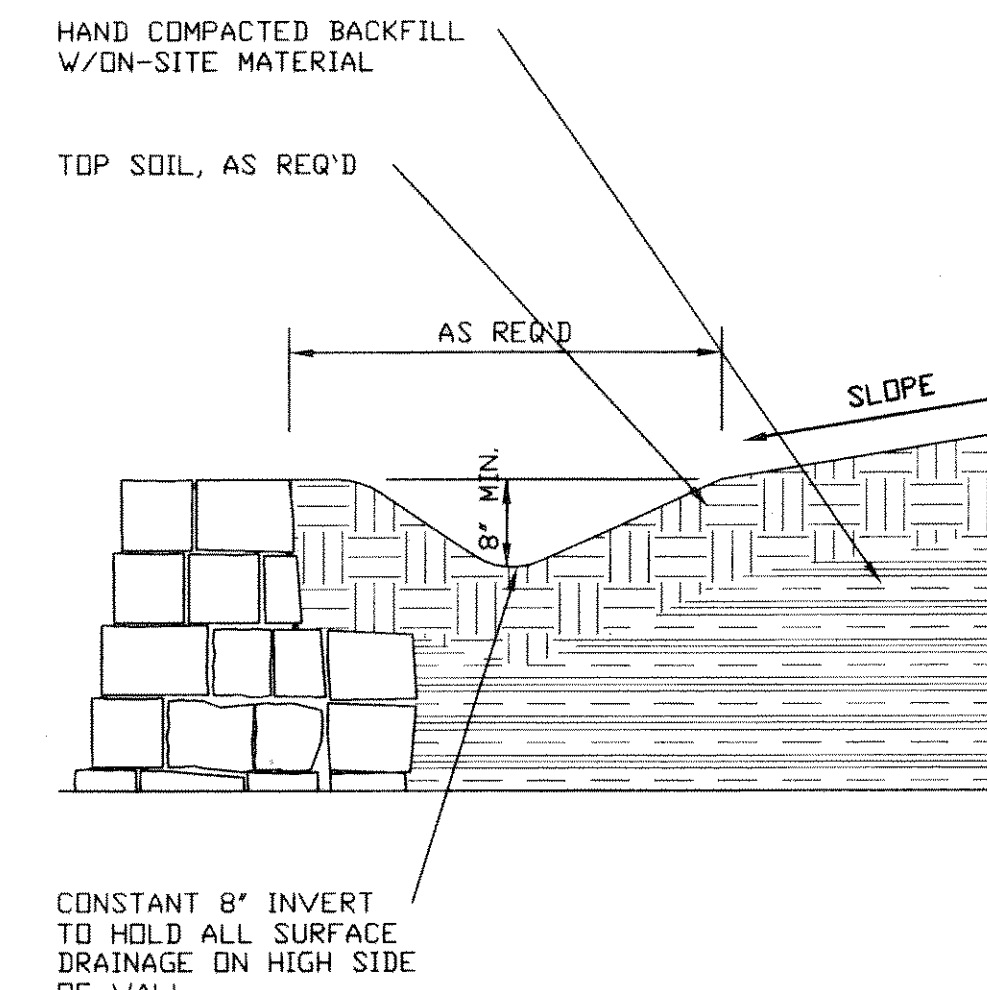
G RW1 N.T.S. **9** TYPICAL PLAN VIEW AT CORNERS RW1 N.T.S.



8 RW1 N.T.S. TYPICAL PLAN VIEW AT BASE RW1 N.T.S.



E RW1 N.T.S. DRAINAGE SWALE DETAIL RW1 N.T.S.



D RW1 N.T.S. DRAINAGE SWALE DETAIL RW1 N.T.S.

1. DESIGN BUILDING CODE

INTERNATIONAL BUILDING CODE, 2003 EDITION

2. GEOTECHNICAL REPORT

FIRM: FUGRO CONSULTANTS LP
REPORT NO. 0705-1099 DATED: 05-05-2005

ALLOWABLE BEARING CAPACITY 1500 psf & 2500 psf

3. GEOTECHNICAL CRITERIA

BEARING ON STIFF NATURAL UNDISTURBED CLAYEY SOILS OR COMPACTED AND TESTED SOILS

ALLOWABLE BEARING = 1500 psf, MIN.
FRICTION ANGLE BETWEEN BASE OF WALL AND SOIL - 17 deg
BACKFILL SOIL PARAMETERS:
BACKFILL SOIL - FREE DRAINING MATERIAL: HARDROCK GRAVEL, REMANUFACTURED CONCRETE GRAVEL, OR SANDSTONE GRAVEL. GRAVEL SIZE MAY VARY FROM 3/4" TO 4"
BACKFILL ANGLE OF INTERNAL FRICTION PHI = 35 deg

BEARING ON HARD NATURAL UNDISTURBED CLAYEY SOILS

ALLOWABLE BEARING = 2500 psf, MIN.
FRICTION ANGLE BETWEEN BASE OF WALL AND SOIL - 19 deg
BACKFILL SOIL PARAMETERS:
BACKFILL SOIL - FREE DRAINING MATERIAL: HARDROCK GRAVEL, REMANUFACTURED CONCRETE GRAVEL, OR SANDSTONE GRAVEL. GRAVEL SIZE MAY VARY FROM 3/4" TO 4"
BACKFILL ANGLE OF INTERNAL FRICTION PHI = 35 deg

BASE SOIL PARAMETERS:
SOIL AT TOE - NATURAL, UNDISTURBED SOILS
ANGLE OF INTERNAL FRICTION PHI = 20 deg

THE TERM, "HAND COMPACTED" ON DRAWING INDICATES A PROCEDURE IN WHICH THE BACKFILL SOIL IS INITIALLY DUMPED IN BEHIND THE WALL WITH A FRONT LOADER. THE SOIL IS THEN WORKED IN BY HAND, USING SHOVELS. IN THE PROCESS, THE SOIL IS ALSO COMPACTED UNDER FOOT BY THE WORKMEN. THE USE OF VERY WET OR VERY DRY BACKFILL SOIL SHOULD BE AVOIDED. THE USE OF HEAVY EQUIPMENT WITHIN 3'-0" OF THE WALL COULD DAMAGE THE WALL AND SHOULD BE AVOIDED.

LOCATE BASE OF WALLS ON UNDISTURBED OR PROPERLY COMPACTED SOIL.

4. MATERIALS

CONCRETE MORTAR - A MIXTURE OF PORTLAND CEMENT AND SAND WITH MINIMUM STRENGTH OF f' = 2500 psi AT 28 DAYS.
AVERAGE DENSITY OF MASONRY STONE WALL VARIES FROM 135 pcf TO 145 pcf.

5. CONSTRUCTION REVIEWS

FALKOFSKE ENGINEERING, INC. SHALL BE CALLED FOR CONSTRUCTION REVIEW OF MASONRY WALL.

6. RETAINING WALL DESIGN CONSTRAINTS

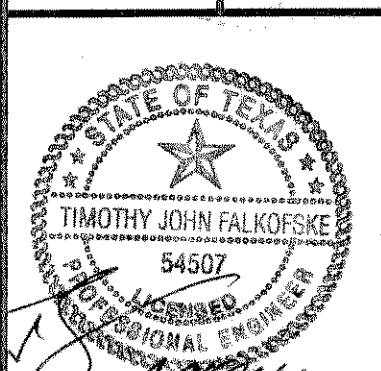
RETAINING WALLS SHALL NOT HAVE SOLID FENCE PLACED ON TOP OF WALL. RETAINING WALLS SHALL NOT HAVE ADDITIONAL SURCHARGE PLACED ABOVE WALL. RETAINING WALLS SHALL NOT HAVE SLOPE AT BASE OR TOP OF WALL THAT EXCEED THAT WHICH IS SHOWN ON THESE PLAN. THE RETAINING WALLS NOTED ABOVE REQUIRE SPECIAL DESIGN.

NO.	DATE	REVISION	BY

FALKOFSKE ENGINEERING, INC.
Structural Engineering Consultants
1414 West Randol Mill Road
Suite 201
Arlington, Texas 76012
Metro (817) 261-8300

The use of these plans and specifications is limited to the project and site conditions shown on these drawings. No responsibility is assumed for any changes or modifications made to these drawings or specifications without the written consent of FALKOFSKE ENGINEERING, INC.

MASONRY RETAINING WALLS - NOTES & STANDARD DETAILS
CASTLE RIDGE ESTATES, PHASE 1
S.H. 205 AND F.M. 552
ROCKWALL, TEXAS
ENGINEERED RETAINING WALL SYSTEMS, INC.
EULESS, TEXAS



JOB NO. 132.06

RW1