

PROJECT INFORMATION:

**RANCH TRAIL
RETAIL
CENTER**

LOT 6, BLOCK A
MAVERICK RANCH
ROCKWALL, TEXAS

PROJECT NUMBER: 19-18

ISSUE DATE: 11/17/2020

REVISIONS:

SHEET NAME:

Retaining Wall Details

SHEET NUMBER:

S101

GENERAL NOTES

I. GENERAL CONDITIONS

A. DESIGN LOADS ARE AS FOLLOWS:

SOIL DESIGN PARAMETERS:	
INTERNAL FRICTION ANGLE OF BACKFILL:	30 DEGREES
UNIT WEIGHT OF BACKFILL:	120 PCF
LATERAL PRESSURE (ACTIVE):	45 PSF/FT
SOIL-FOOTING SLIDING COEFFICIENT:	0.30
MAXIMUM ALLOWABLE BEARING PRESSURE:	1500 PSF
DESIGN SURCHARGE (WHERE APPLICABLE):	40 PSF

B. STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2015 EDITION.

C. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED.

D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO START OF CONSTRUCTION.

E. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF OTHER TRADES (MECH'L, ELEC'L, ETC.) PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS.

F. THE DETAILS DESIGNATED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN ALL AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE SHOWN IN THE DETAILS

II. SITE

A. RETAINING WALL FOOTING PAD SHALL BE AS FOLLOWS:

1. THE FOOTING SHALL BE STRIPPED OF ALL TOPSOIL, VEGETATION, ROOTS, OLD CONSTRUCTION DEBRIS, OR OTHER ORGANIC MATERIAL.
2. THE SUBGRADE SHALL BE FIRM AND ABLE TO SUPPORT THE CONSTRUCTION EQUIPMENT WITHOUT DISPLACEMENT AND BE COMPACTED AS RECOMMENDED HEREIN. SOFT OR YIELDING SUBGRADE SHALL BE CORRECTED AND MADE STABLE BEFORE CONSTRUCTION PROCEEDS. THE SUBGRADE SHALL BE PROOF ROLLED TO DETECT ANY SOFT SPOTS, WHICH IF EXIST, SHALL BE RE-WORKED, COMPACTED AND TESTED.

B. ALL BACKFILL REQUIRED IN BUILDING AREAS SHALL BE AS FOLLOWS:

1. FILL SHALL BE FREE DRAINING GRANULAR MATERIAL CONSISTING OF CRUSHED STONE, SAND/GRAVEL MIXTURE, OR SAND/CRUSHED STONE MIXTURE. THE MATERIAL SHALL HAVE LESS THAN 3% PASSING THE No. 200 SIEVE AND LESS THAN 30% PASSING THE No. 40 SIEVE. THE MINUS No. 40 SIEVE MATERIAL SHALL BE NON-PLASTIC.
2. ALL FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING EIGHT (8) INCHES IN UNCOMPACTED THICKNESS. LIGHT HAND OPERATED EQUIPMENT SHALL BE USED ADJACENT TO THE WALL TO ENSURE THAT BACKFILL OPERATIONS DO NOT DISTRESS WALL.

III. CONCRETE

A. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

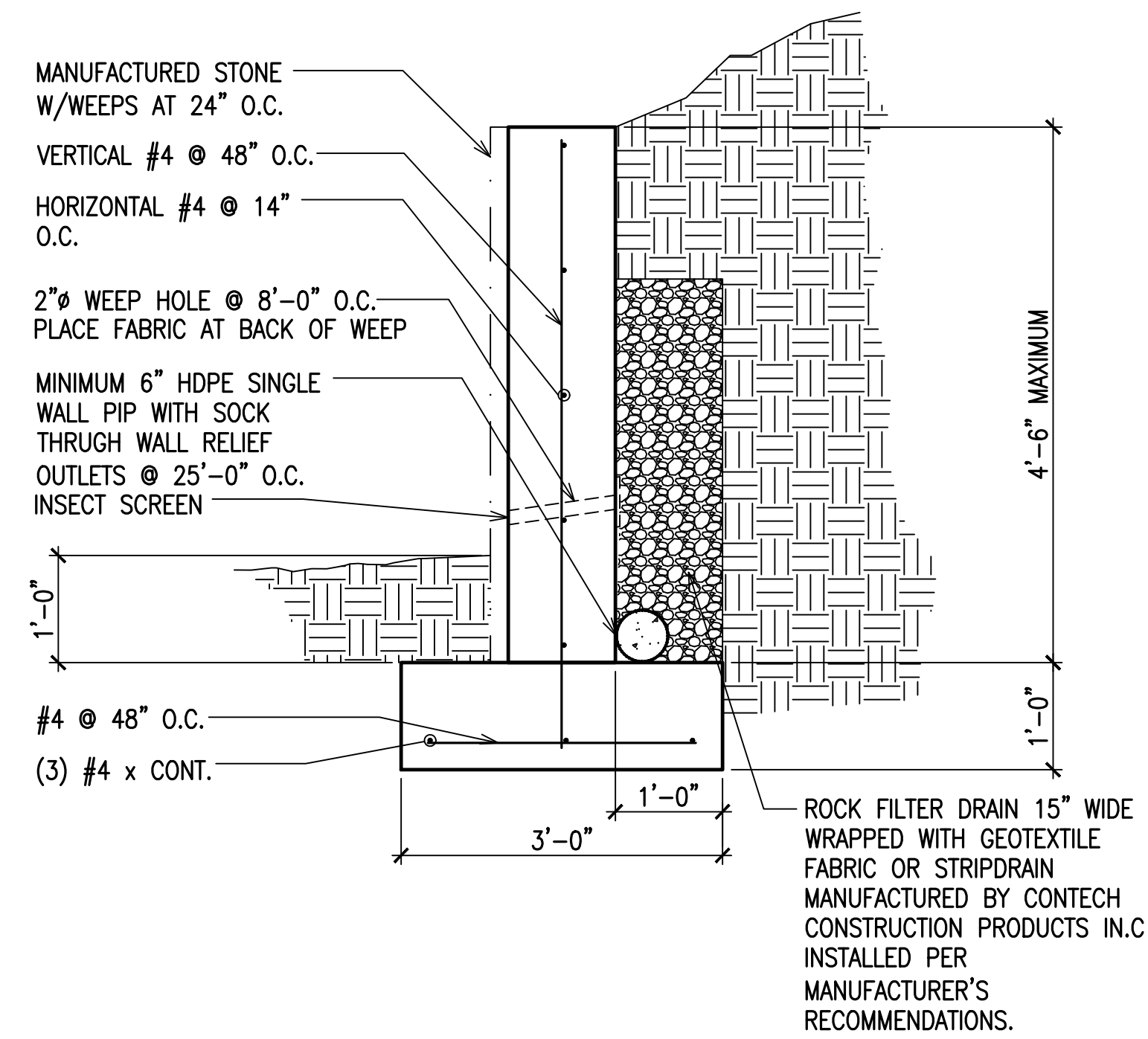
B. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE.

C. LAP ALL REINFORCING SPLICES 30 BAR DIAMETERS WITH 24" MINIMUM UNLESS NOTED OTHERWISE.

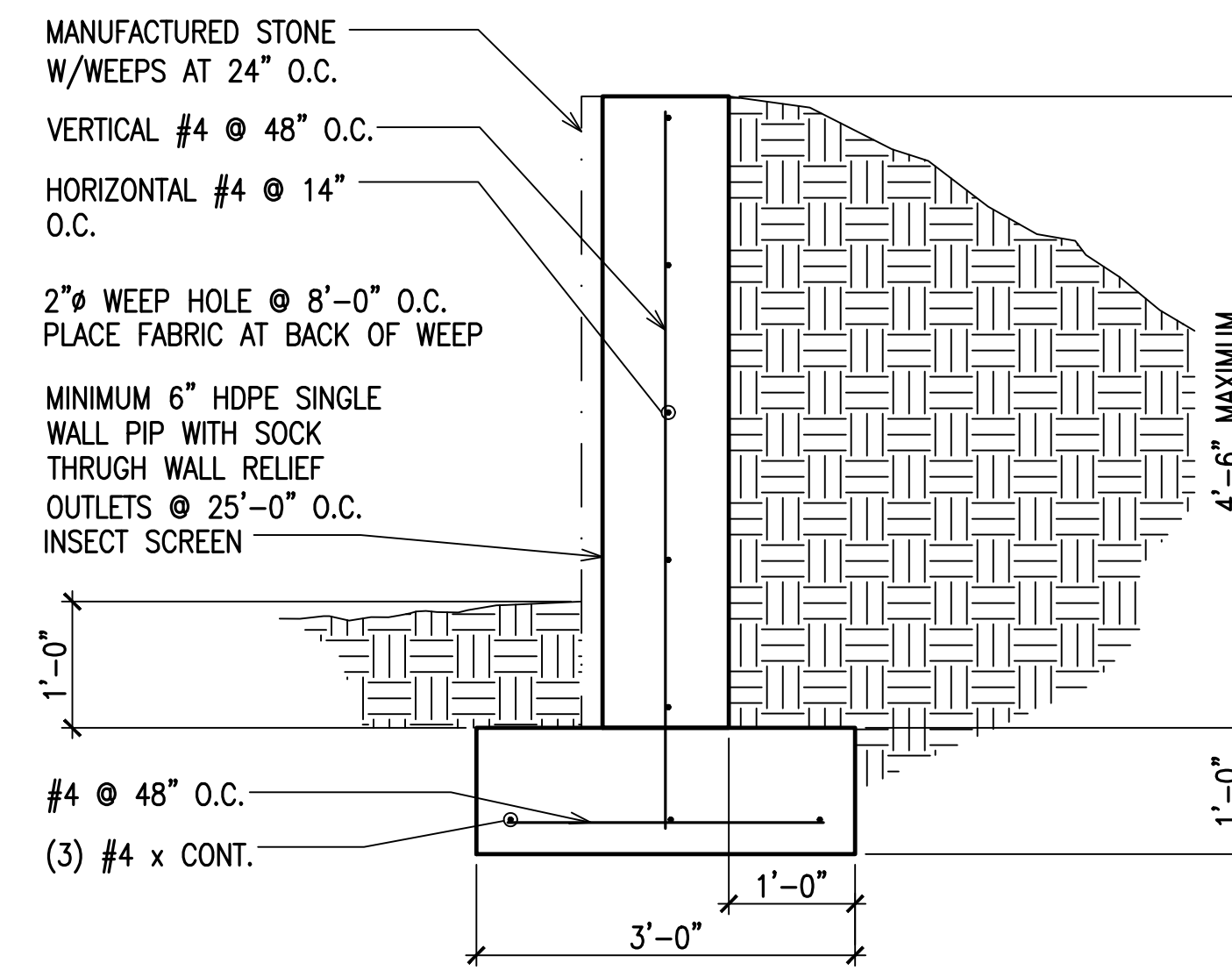
D. PROVIDE CORNER BARS WITH 30 BAR DIAMETER LAP TO MATCH HORIZONTAL REINFORCEMENT AT ALL GRADE BEAM AND WALL INTERSECTIONS. 2'-0" LAP MINIMUM.

E. ALL REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL.

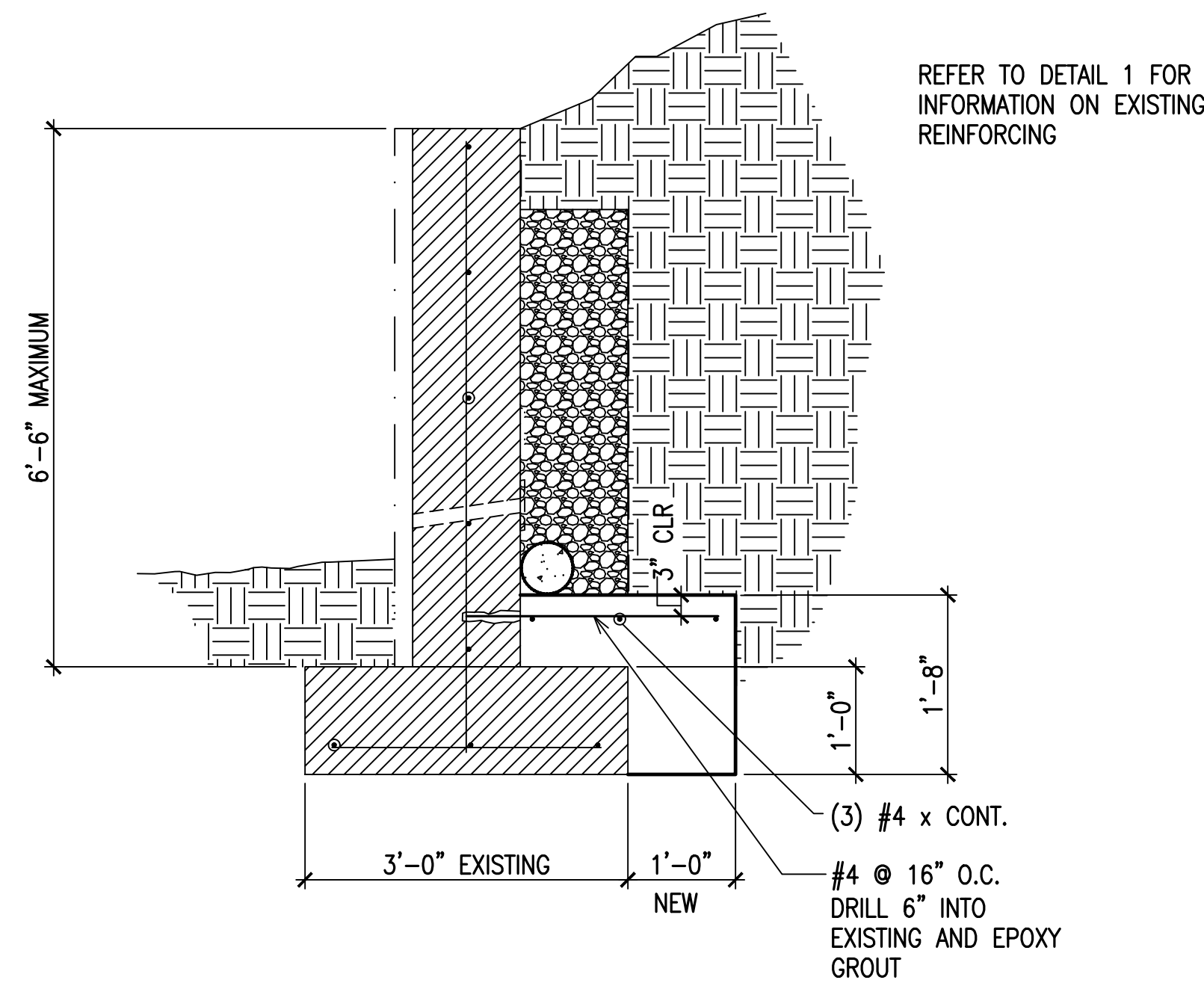
F. CONTRACTOR SHALL COORDINATE ALL PENETRATIONS, CONDUIT, CHAMFERS AND EMBEDDED ITEMS PRIOR TO CONCRETE PLACEMENT.



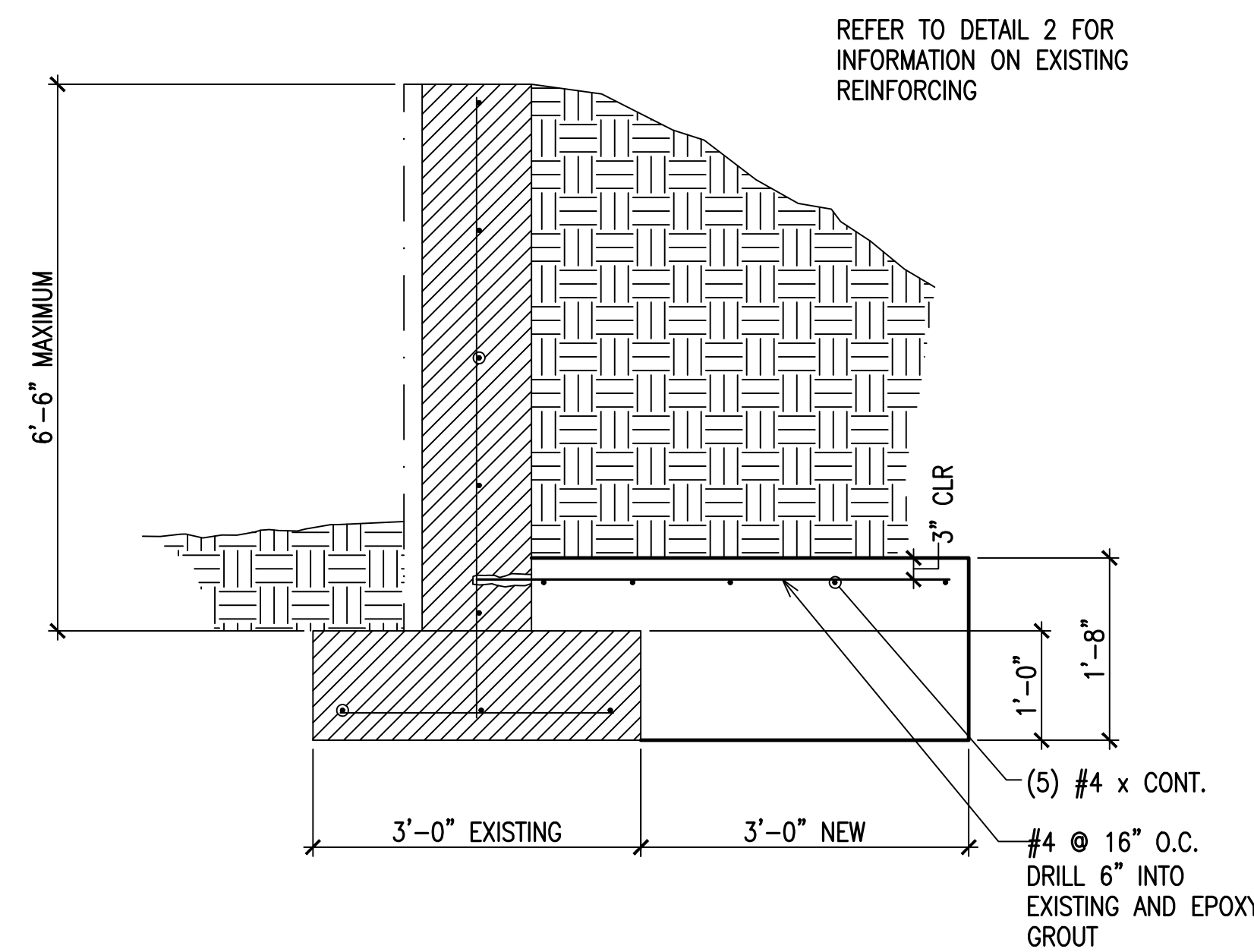
1 | DETAIL
3/4" = 1'-0" | EXISTING PROPERTY LINE RETAINING WALL TO REMAIN



2 | DETAIL
3/4" = 1'-0" | EXISTING DETENTION BASIN RETAINING WALL TO REMAIN



3 | DETAIL
3/4" = 1'-0" | MODIFICATIONS TO EXISTING PROPERTY LINE RETAINING WALLS GREATER THAN 4'-6" IN RETAINED HEIGHT



4 | DETAIL
3/4" = 1'-0" | MODIFICATIONS TO EXISTING DETENTION BASIN RETAINING WALLS GREATER THAN 4'-6" IN RETAINED HEIGHT

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