

C:\Users\Thomas\Documents\15.01\_McCormick\15.01\_Plan\_1b.dwg, 9/24/2015 10:21:58 AM, Thomas McInerney Architect - Copyright 2015

NOTES:

ASSUMED SOIL BEARING DESIGN CAPACITY: 1,500 LBS / SQUARE FOOT

TOLERANCE BETWEEN ELEVATION OF PIERS SHALL BE 1/8" OR LESS

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. EXCEPT AS MODIFIED HEREIN, CONTRACTOR SHALL MAINTAIN A COPY OF ACI 301 ON SITE.

ALL CONCRETE SHALL BE STONE AGGREGATE HAVING MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI

- MATERIALS:  
- CEMENT: ASTM C150, NORMAL TYPE I PORTLAND, GRAY COLOR.  
- FINE AND COARSE AGGREGATES: ASTM C33  
- REINFORCING STEEL: ASTM A615 GRADE 60

VAPOR BARRIER:  
ASTM D2103, 6 MIL THICK CLEAR POLYETHYLENE FILM.

NON-SHRINK GROUT:  
5000 PSI, PREMIXED COMPOUND WITH NON-METALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING AGENTS.

CONCRETE COVER FOR STEEL REINFORCING PROTECTION  
PLACED AGAINST EARTH.....3"  
FORMED BUT EXPOSED TO EARTH OR WEATHER:  
#5 AND SMALLER.....1 1/2"  
LARGER THAN #5.....2"

SLABS OR WALLS NOT EXPOSED TO EARTH OR WEATHER:

#5 AND SMALLER.....1"  
LARGER THAN #5.....1 1/2"

BEAMS AND COLUMNS:  
TIES AND STIRRUPS.....1"  
PRINCIPAL REINFORCEMENT .... 1 1/2"

NO SPLICES OF REINFORCEMENT PERMITTED EXCEPT AS DETAILED OR AUTHORIZED BY ARCHITECT. AT THE INTERSECTION OF CONCRETE WALLS, PROVIDE CORNER BARS THE SAME SIZE AND SPACING AS HORIZONTAL REINFORCING, AND LAP 24" WITH MAIN STEEL.

WHERE PERMITTED, PROVIDE SPLICES BY MINIMUM CONTACT LAP AS FOLLOWS:

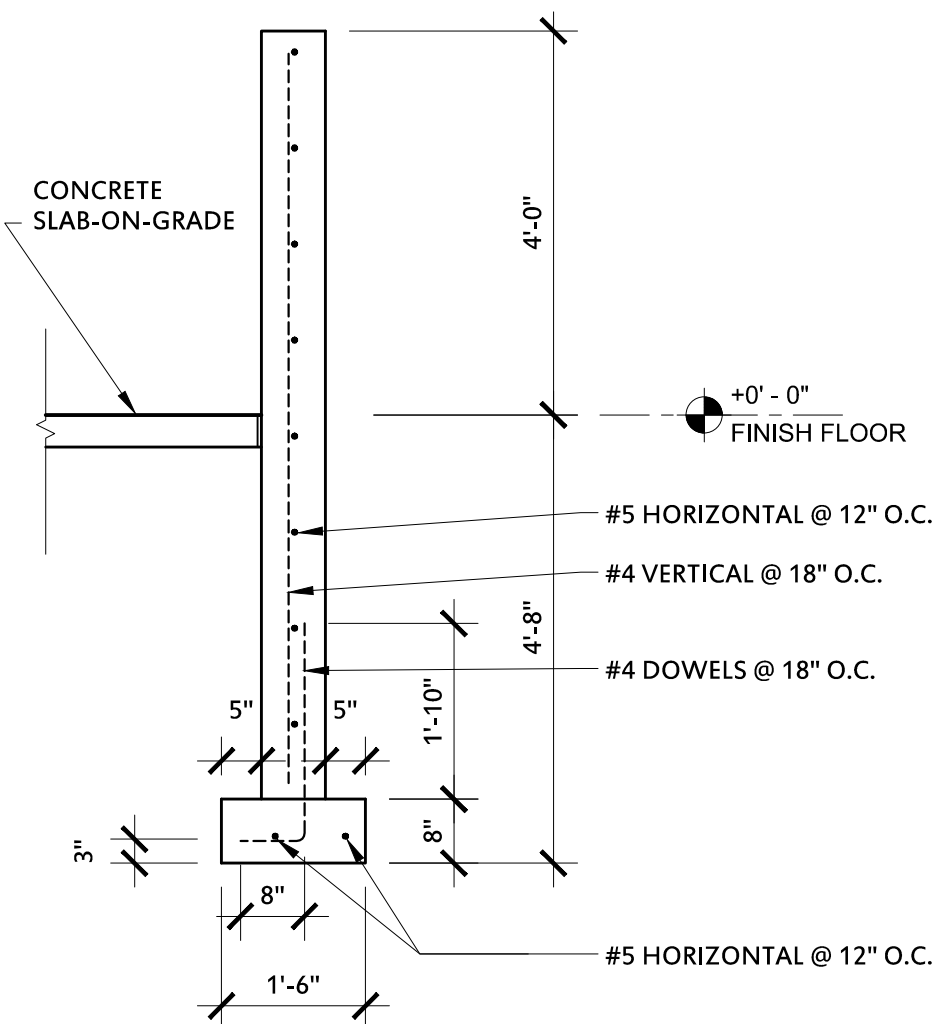
BAR: #3 #4 #5 #6 #7 #8 #9 #10  
LAP LENGTH: 16" 22" 27" 33" 41" 55" 69" 88"

DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL", PUBLICATION SP-66, AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318.

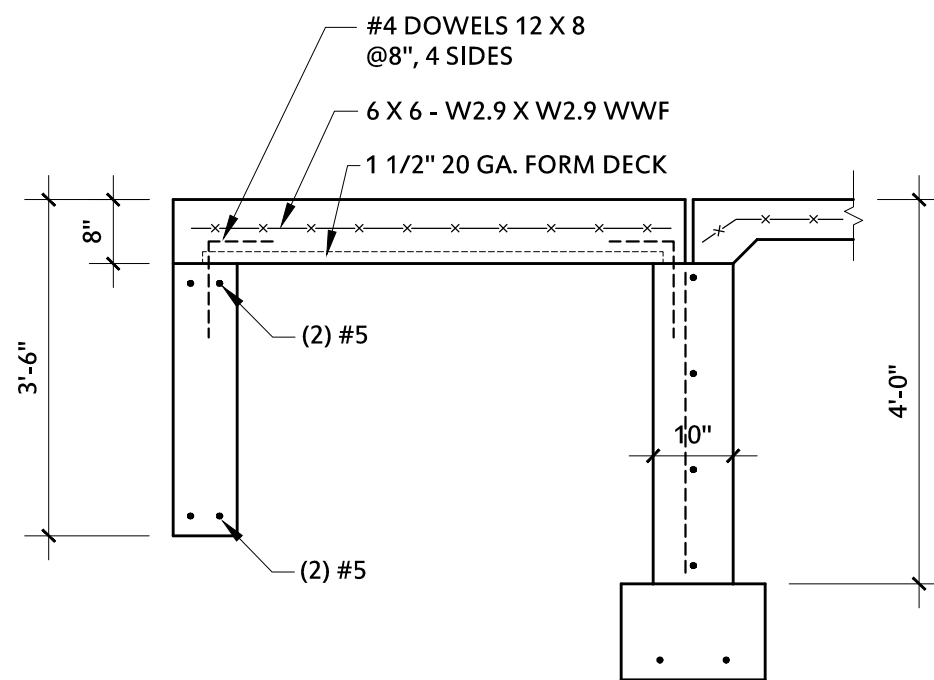
PLACE 2-#5 (1 EACH FACE) WITH 2-0" PROJECTIONS AROUND OPENINGS IN CONCRETE WALLS.

WIRE FABRIC REINFORCEMENT: LAP ONE FULL MESH AT SPLICES AND WIRE TOGETHER.

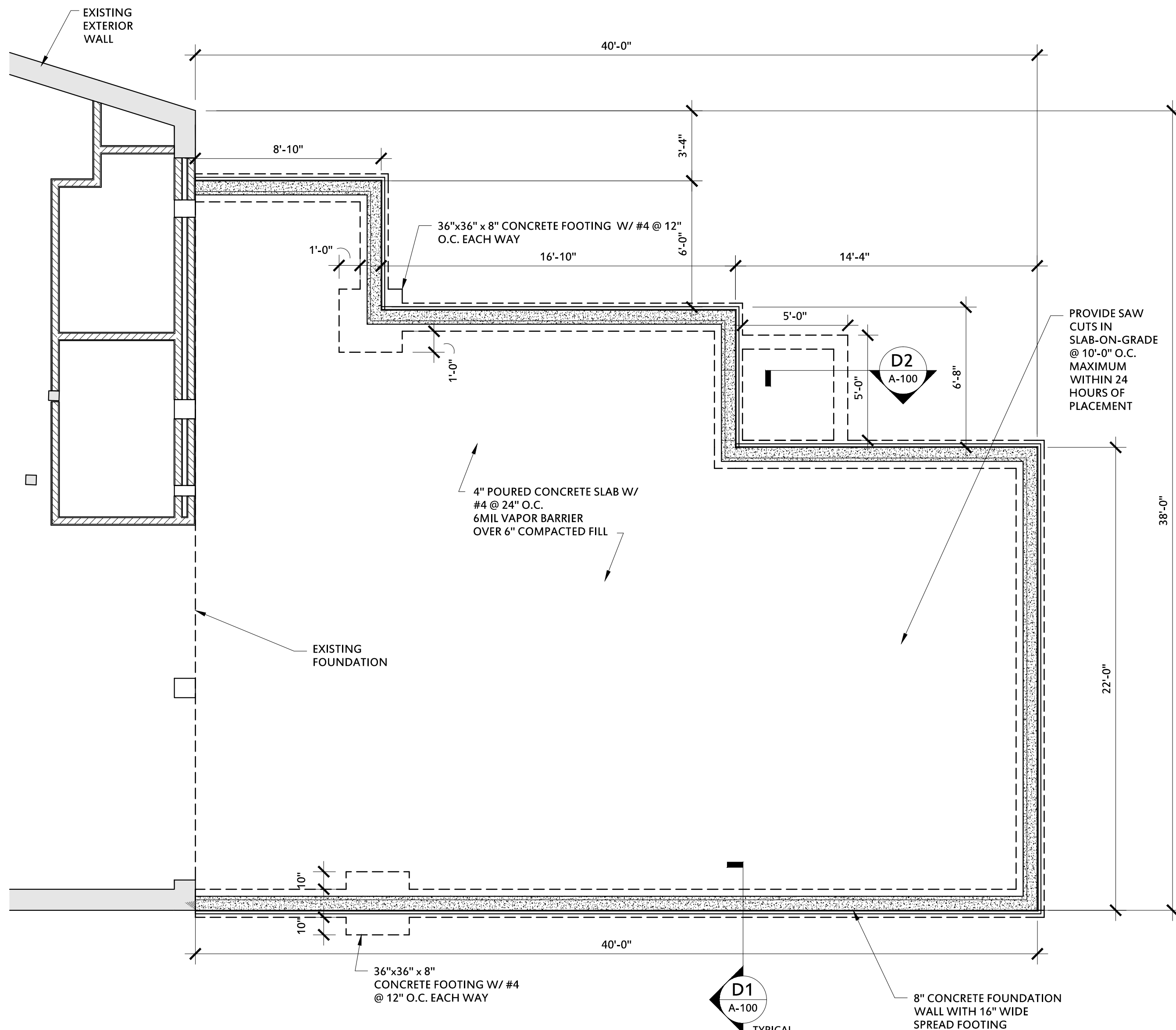
MAXIMUM FREE DROP OF ANY CONCRETE: 6'-0"



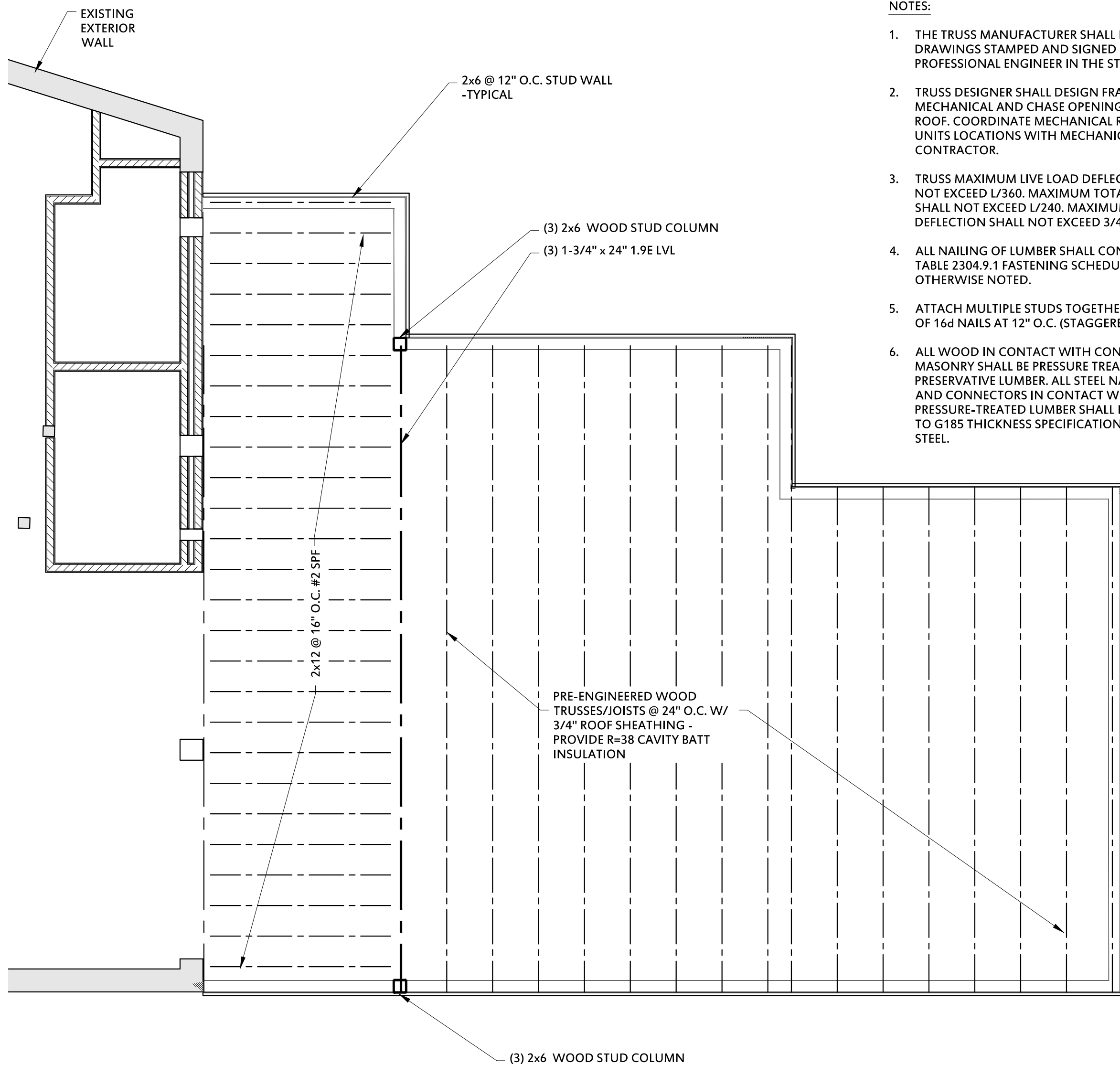
**D1** FOUNDATION WALL DETAIL  
1/2" = 1'-0"



**D2** FROST WALL AT STOOPS  
1/2" = 1'-0"



**A1** FOUNDATION PLAN  
SCALE : 1/4" = 1'-0"



**A3** FRAMING PLAN  
SCALE : 1/4" = 1'-0"

LUMBER SPECIES

POSTS, BEAMS, HEADERS, JOISTS, WALL STUDS, RAFTERS

NO. SPRUCE PINE FIR

SILL, PLATES, BLOCKING, BRIDGING

NO. SPRUCE PINE FIR

RAFTER SPANS

FOR SUPPORTING A MEMBRANE ROOF DECK ONLY  
30# LIVE LOAD / 10# DEAD LOAD  
DEFLECTION LIMIT BY L/240 FOR LIVE LOAD ONLY

MEMBER	SPACING	NO. 2
2x6	12" O.C.	13'-5"
	16" O.C.	11'-11"
	24" O.C.	9'-8"
2x8	12" O.C.	17'-2"
	16" O.C.	15'-0"
	24" O.C.	12'-3"
2x10	12" O.C.	21'-2"
	16" O.C.	18'-5"
	24" O.C.	15'-0"
2x12	12" O.C.	24'-8"
	16" O.C.	21'-4"
	24" O.C.	17'-5"

NOTE:

- SPANS ARE BASED ON UNIFORMLY LOADED JOISTS AND INCLUDE ALLOWANCES FOR REPETITIVE USE MEMBERS.
- LIVE LOADS OF 40 PSF ASSUMED. ADDITIONAL DEAD LOADS ARE DUE TO VARIOUS COMBINATIONS OF CONSTRUCTION MATERIALS.
- DEFLECTIONS SHOWN ASSUME A 3/4" RATED SUBFLOOR THAT HAS BEEN BOTH GLUED AND NAILED.
- TOTAL DEFLECTIONS ARE LIMITED TO LESS THAN L/240 AS REQUIRED BY CODE.
- INDICATED SPANS ARE FULL MEMBER LENGTH, INCLUDING A MINIMUM BEARING WIDTH OF 1.75-INCHES ON EACH END.

NOTES:

- THE TRUSS MANUFACTURER SHALL PROVIDE SHOP DRAWINGS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE OF IOWA.
- TRUSS DESIGNER SHALL DESIGN FRAMING FOR MECHANICAL AND CHASE OPENINGS LOCATED ON ROOF. COORDINATE MECHANICAL ROOF TOP UNITS LOCATIONS WITH MECHANICAL CONTRACTOR.
- TRUSS MAXIMUM LIVE LOAD DEFLECTION SHALL NOT EXCEED L/360. MAXIMUM TOTAL DEFLECTION SHALL NOT EXCEED L/240. MAXIMUM TOTAL LOAD DEFLECTION SHALL NOT EXCEED 3/4".
- ALL NAILING OF LUMBER SHALL CONFORM TO IBC TABLE 2304.9.1 FASTENING SCHEDULE, EXCEPT AS OTHERWISE NOTED.
- ATTACH MULTIPLE STUDS TOGETHER W/ (2) ROWS OF 16d NAILS AT 12" O.C. (STAGGERED)
- ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED PRESERVATIVE LUMBER. ALL STEEL NAILS, BOLTS AND CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER SHALL BE GALVANIZED TO G185 THICKNESS SPECIFICATIONS OR STAINLESS STEEL.

Architect:

**Thomas McInerney**  
**ARCHITECT**

**3 1 9 . 3 3 1 . 0 3 6 5**

1208 Marcy Street Iowa City, Iowa 52240  
www.thomasarchitect.com  
thomas@thomasarchitect.com

Project :

**Restaurant**

219 16th Avenue SE  
Cedar Rapids, Iowa

Project number: 15.01

Note: © COPYRIGHT 2015  
UNAUTHORIZED COPYING, DISCLOSURE OR CONSTRUCTION WITHOUT WRITTEN PERMISSION BY THOMAS MCINERNEY, ARCHITECT, IS STRICTLY PROHIBITED.

Issue date: Description

SEP 24, 2015 | PERMIT APPLICATION

Sheet Title:

**FOUNDATION  
& FRAMING  
PLAN**

Sheet Number:

**A-100**