

**NM1-63**

**Construction  
Documents  
Mud Drying Pad**

**5/18/18**

## Griswold, Jim, EMNRD

---

**From:** Charles Fiedler <CFiedler@team-psc.com>  
**Sent:** Tuesday, May 15, 2018 11:28 AM  
**To:** Griswold, Jim, EMNRD  
**Cc:** Kevin Mills; Zach Ramos; Nevin Bannister (nbannister@oilfieldwaterlogistics.com)  
**Subject:** OWL Surface Waste Management Facility-Process Area Construction Plans  
**Attachments:** 0118-17-OWL\_MUD\_MGMT-BID\_SET.pdf  
  
**Importance:** High

Good Morning Jim,

We are providing the attached Construction Plans for the Drilling Mud Drying Pad component of the Process Area for this facility in fulfillment of the Additional Facility-Specific Conditions 6-C, which requires that at least 30 days prior to construction of specific components at this facility the operator must furnish OCD with a complete set of construction drawings. This component of the facility is currently being bid for construction and as soon as the construction schedule is established, a major milestone schedule for construction will be provided.

Please let us know if you have any questions with this submission.

Charles

Charles W. Fiedler, P.E., LEED AP  
Associate | Senior Practice Leader

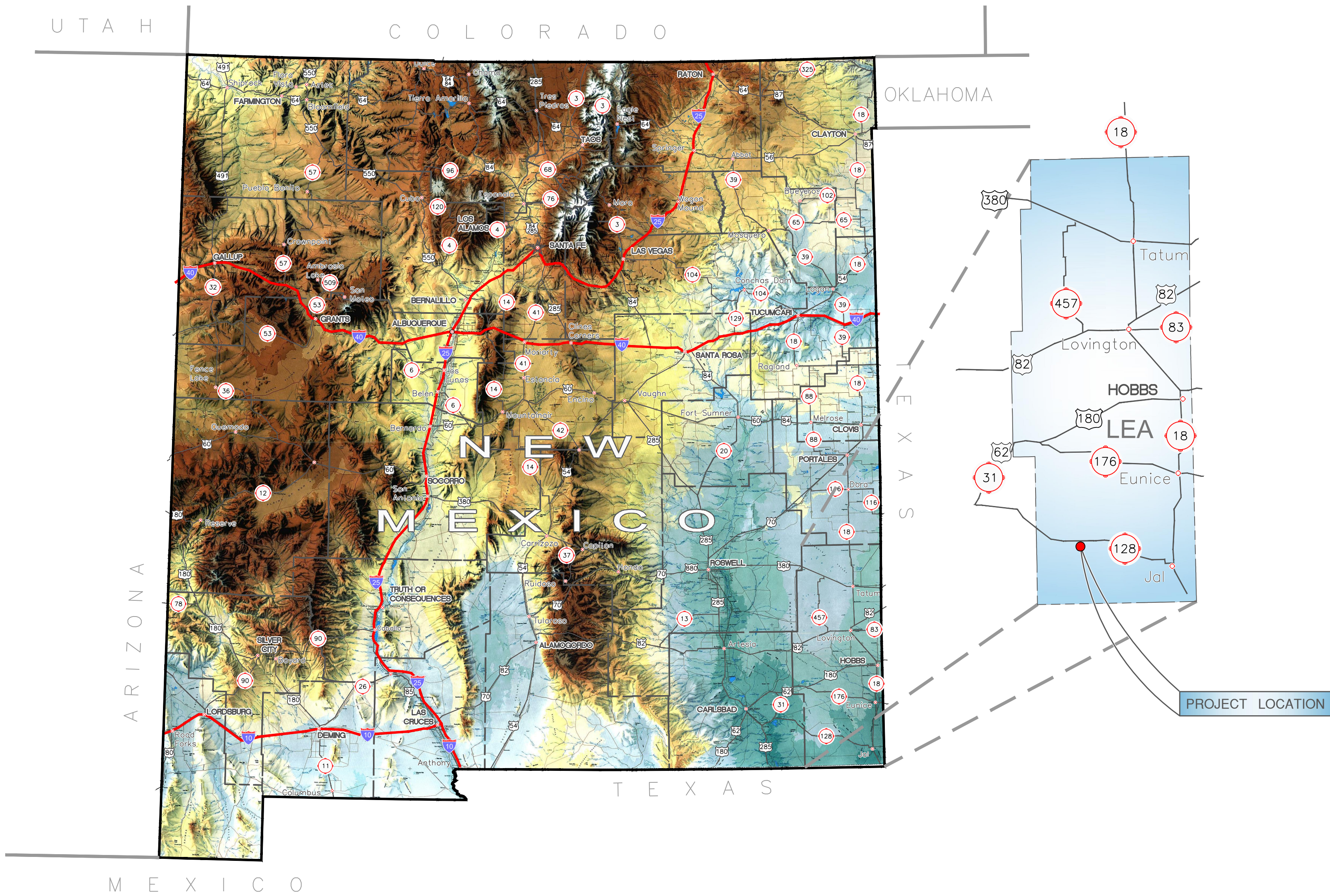
GORDON ENVIRONMENTAL | PSC  
333 Rio Rancho Blvd. NE, Suite 400  
Rio Rancho, New Mexico 87124  
505-867-6990 | team-psc.com

\*Please note our new address!



OWL LANDFILL SERVICES, LLC  
SITE DEVELOPMENT & MUD DRYING PAD  
CONSTRUCTION PLANS

LEA COUNTY, NEW MEXICO



**GORDONPSC**  
ENVIRONMENTAL  
333 Rio Rancho Blvd. NE  
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Rio Rancho, NM 87124  
505.867.6990

SHEET INDEX

GENERAL

G-001 COVER SHEET AND INDEX

CIVIL

C-101	PROCESSING AREA DEVELOPMENT PLANAND COMMERCIAL TRAFFIC FLOW
C-102	DRYING PADS DEVELOPMENT PLAN AND PHASING
C-103	WEST DRYING PAD LAYOUT
C-104	WEST DRYING PAD SUBGRADE AND LINER DESIGN

CIVIL DETAILS

C-501 LINER & ENGINEERING DETAILS

STRUCTURAL

S-001	GENERAL NOTES AND TYPICAL DETAILS
S-111	FOUNDATION PLAN
S-501	FOUNDATION DETAILS
S-502	FOUNDATION DETAILS



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SITE DEVELOPMENT  
& MUD MANAGEMENT  
PAD CONSTRUCTION  
PLANS

LEA COUNTY, NEW MEXICO

KEY PLAN

1	05/11/2018	PROJECT PROCUREMENT
-	05/02/2018	PRE-BID REVIEW
NO	DATE	DESCRIPTION

ISSUING OFFICE: RIO RANCHO PROJECT NO: 0118.17

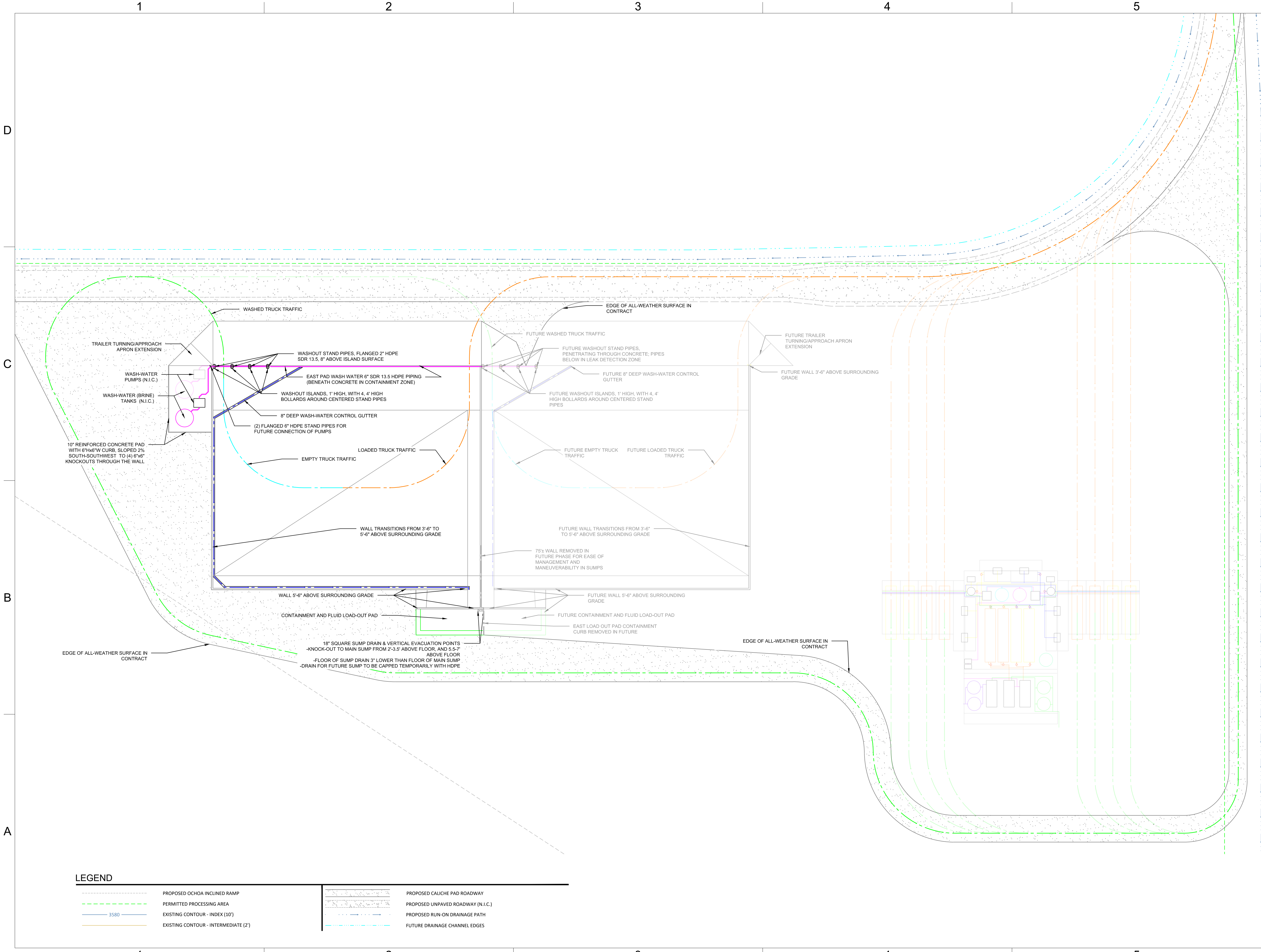
COVER SHEET  
AND INDEX

G-001

FILE NAME: X:20170118.1702\_DSGN02\_DWG010\_GENG-001-0118-17-CL - MUD.dwg LAYOUT NAME: G-001 PRINTED: Friday, May 11, 2018 - 4:17pm USER: andbrien



FILE NAME: X:20170118.1702\_DSGN02\_DWG050\_CIVIL06\_MudMgmtC-101-MECH-PROC - 2017.dwg LAYOUT NAME: C-101 PRINTED: Friday, May 11, 2018 - 3:27pm USER: andbrien



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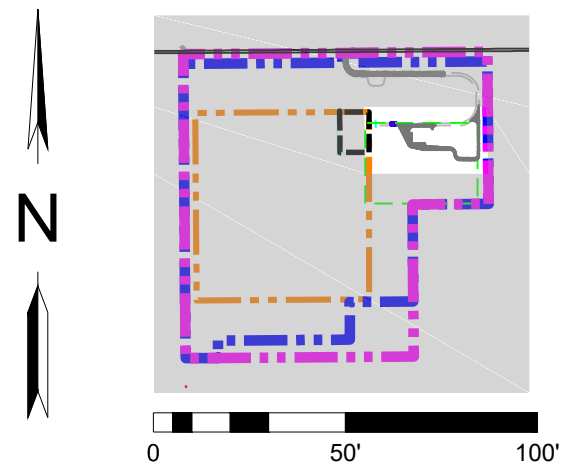
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& MUD MANAGEMENT  
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PLANS

LEA COUNTY, NEW MEXICO

KEY PLAN

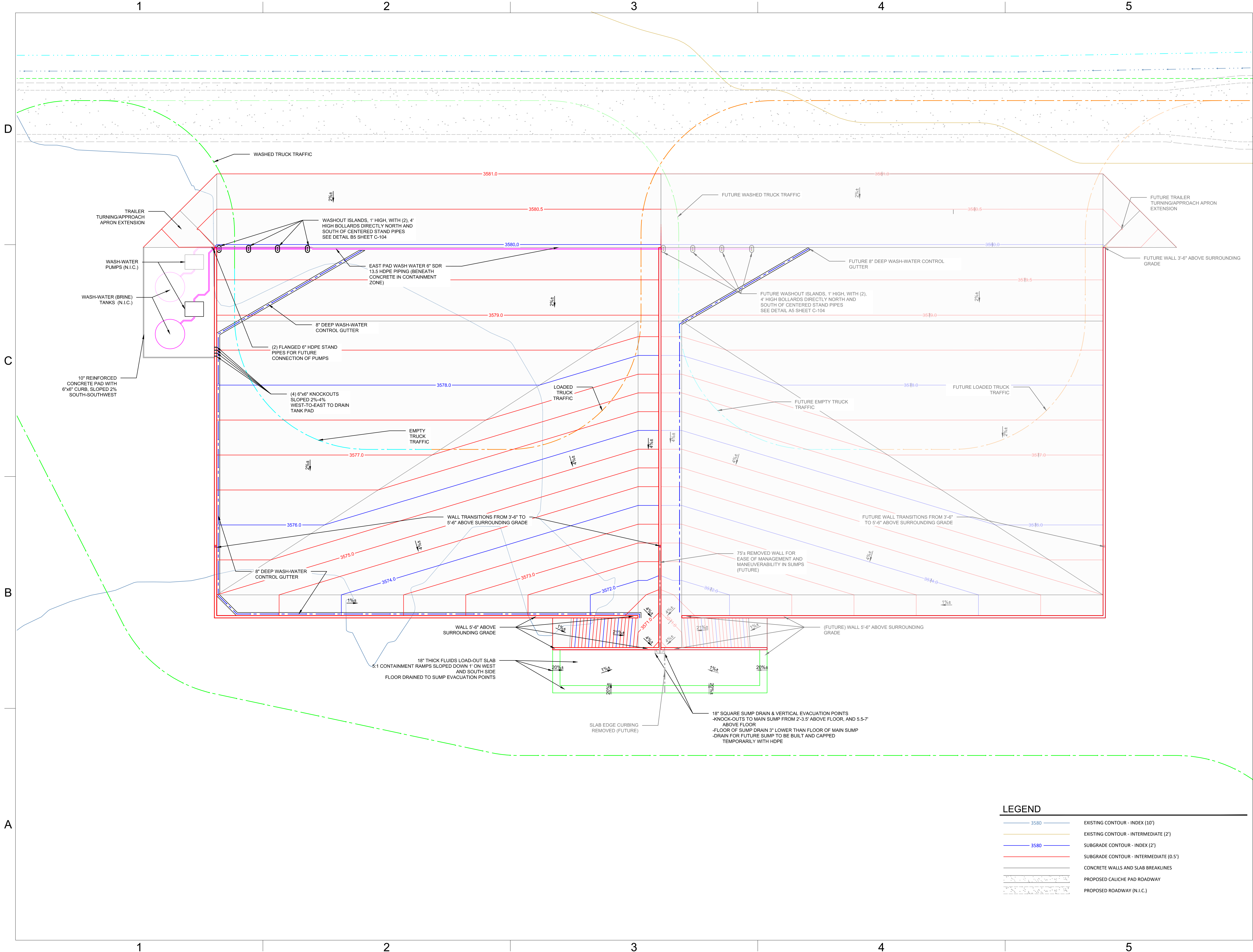


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PROCESSING AREA  
DEVELOPMENT PLAN  
AND COMMERCIAL  
TRAFFIC FLOW

C-101

FILE NAME: X:\2017\0118.17\02\_DSGM\02\_DWG\050\_MudMgmt\02\_3-DryingPad - 2017.dwg LAYOUT NAME: C-102 PRINTED: Friday, May 11, 2018 - 3:23pm USER: amcbrien



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		EXISTING CONTOUR - INTERMEDIATE (2')
	3580	SUBGRADE CONTOUR - INDEX (2')
		SUBGRADE CONTOUR - INTERMEDIATE (0.5')
		CONCRETE WALLS AND SLAB BREAKLINES
		PROPOSED CALICHE PAD ROADWAY
		PROPOSED ROADWAY (N.I.C.)



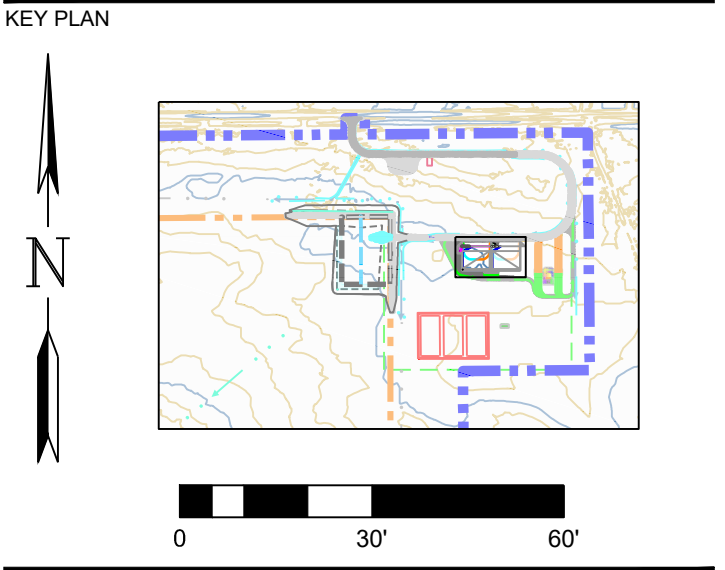
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SITE DEVELOPMENT  
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LEA COUNTY, NEW MEXICO



NO	DATE	DESCRIPTION
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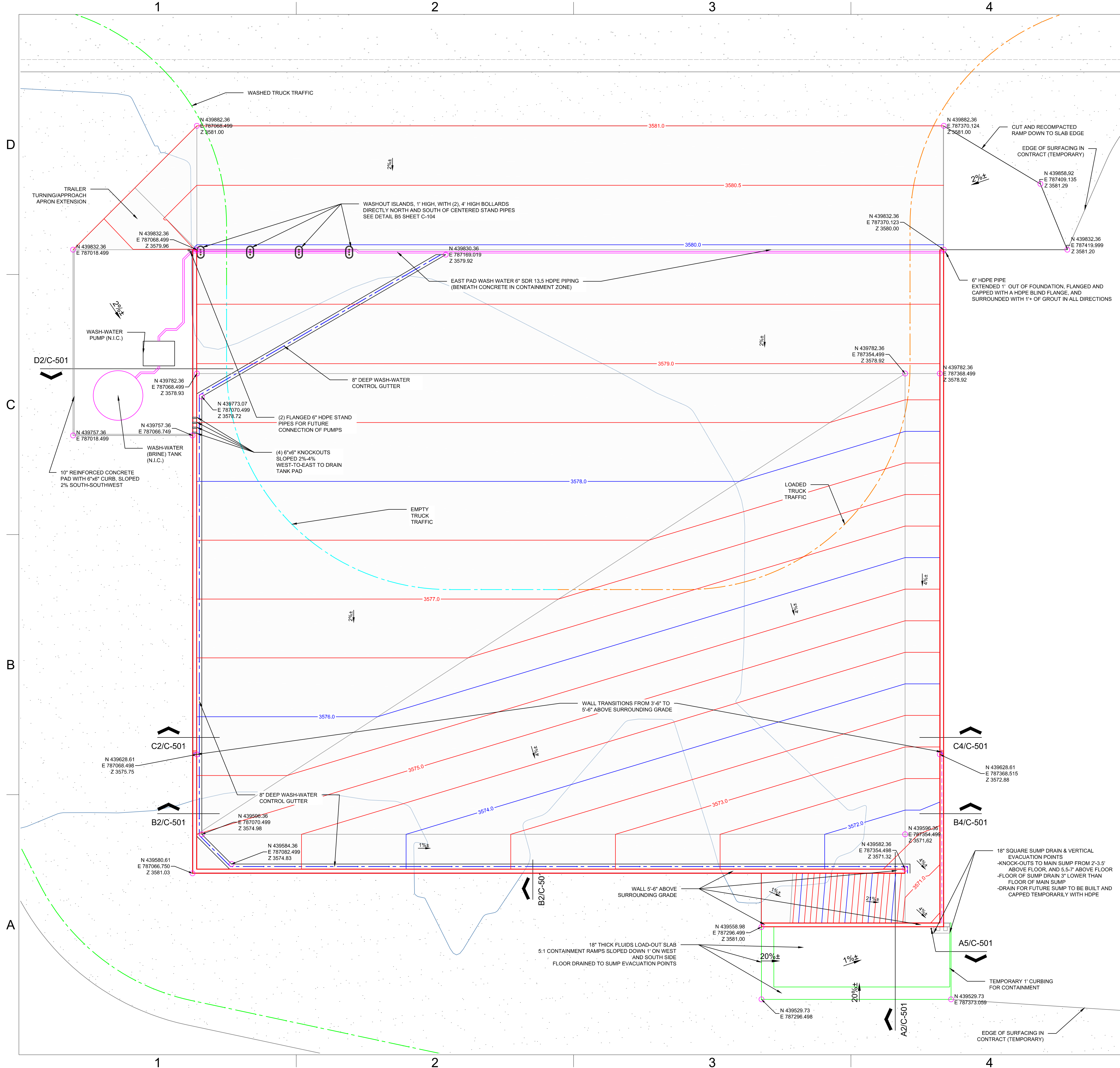
ISSUING OFFICE: RIO RANCHO PROJECT NO: 0118.17

DRYING PADS  
DEVELOPMENT PLAN  
AND PHASING  
WITH TRAFFIC FLOW

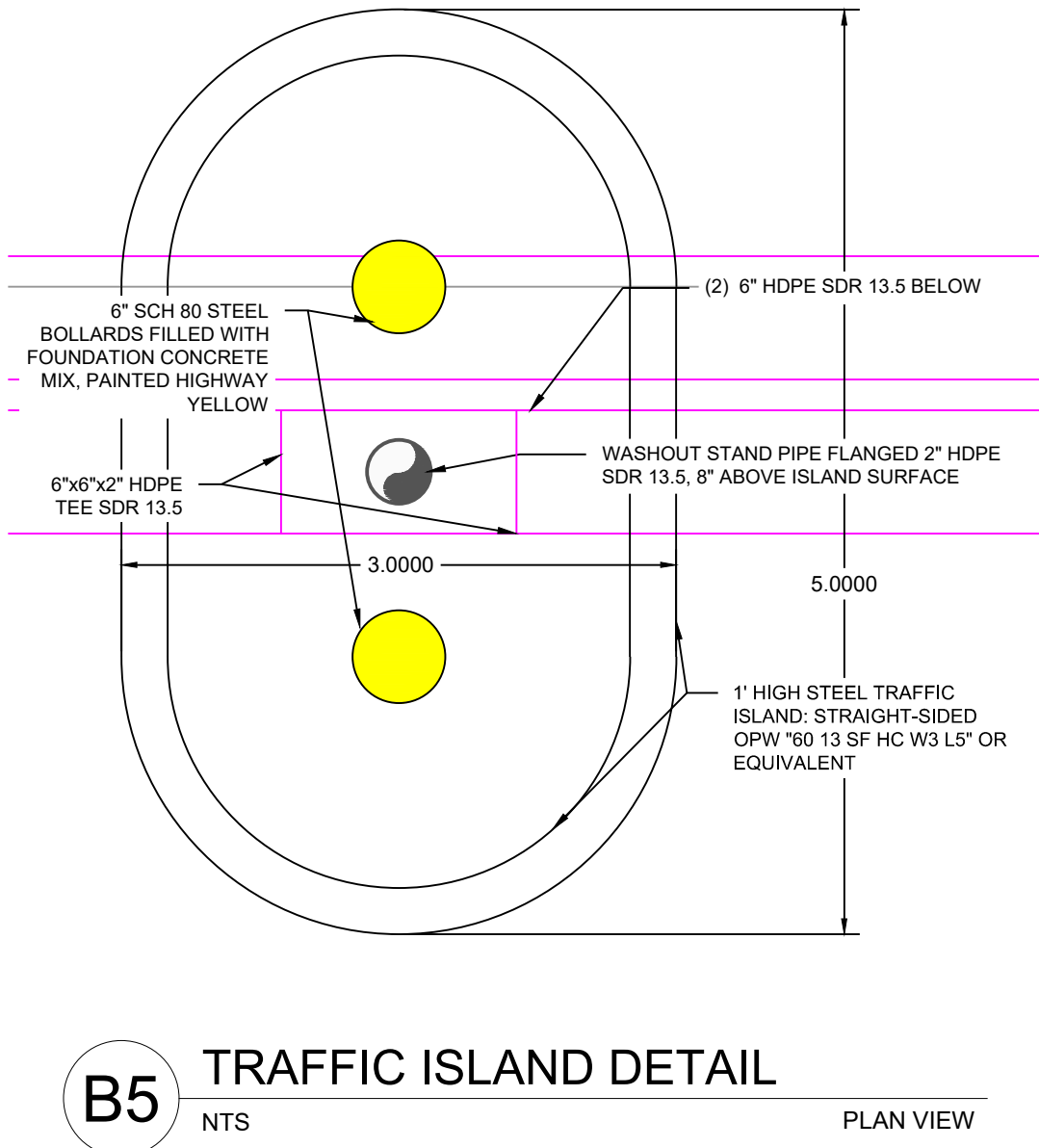
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	EXISTING CONTOUR - INTERMEDIATE (2')
	SUBGRADE CONTOUR - INDEX (2')
	SUBGRADE CONTOUR - INTERMEDIATE (0.5')
	CONCRETE WALLS AND SLAB BREAKLINES
	PROPOSED CALICHE PAD ROADWAY
	PROPOSED ROADWAY (N.I.C.)



- NOTES:
- ALL CONCRETE JOINTS TO BE MADE WATERTIGHT WITH WATERSTOPS
  - ALL PIPE PENETRATIONS FOR BOLLARDS, RISERS, ETC. TO BE SEALED WITH AN ELASTOMERIC, CHEMICALLY-RESISTANT SEALANT 2" THICK AROUND CIRCUMFERENCE OF PIPE, AND 6" DEEP
  - CIVIL PLANS CONTROL FOR CONCRETE SLAB FINAL SLOPE AND DRAINAGE
  - STRUCTURAL DETAILS CONTROL FOR ALL OTHER ASPECTS OF CONCRETE LAYOUT AND CONSTRUCTION



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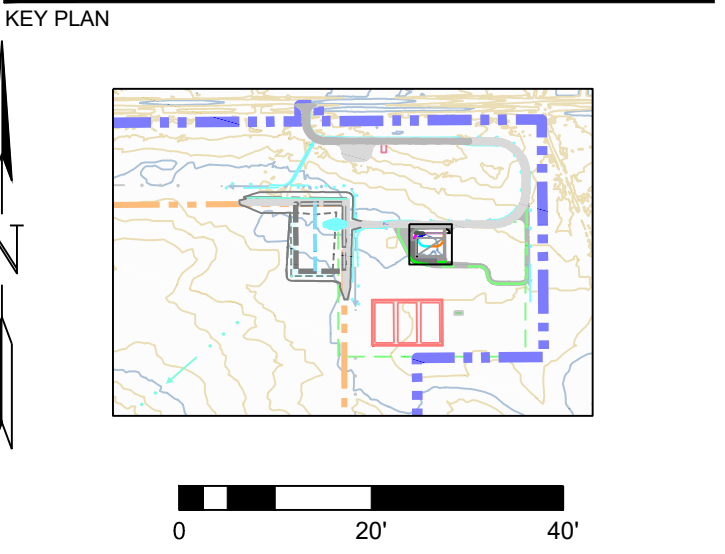
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## OWL LANDFILL SERVICES, LLC.

### SITE DEVELOPMENT & MUD MANAGEMENT PAD CONSTRUCTION PLANS

LEA COUNTY, NEW MEXICO



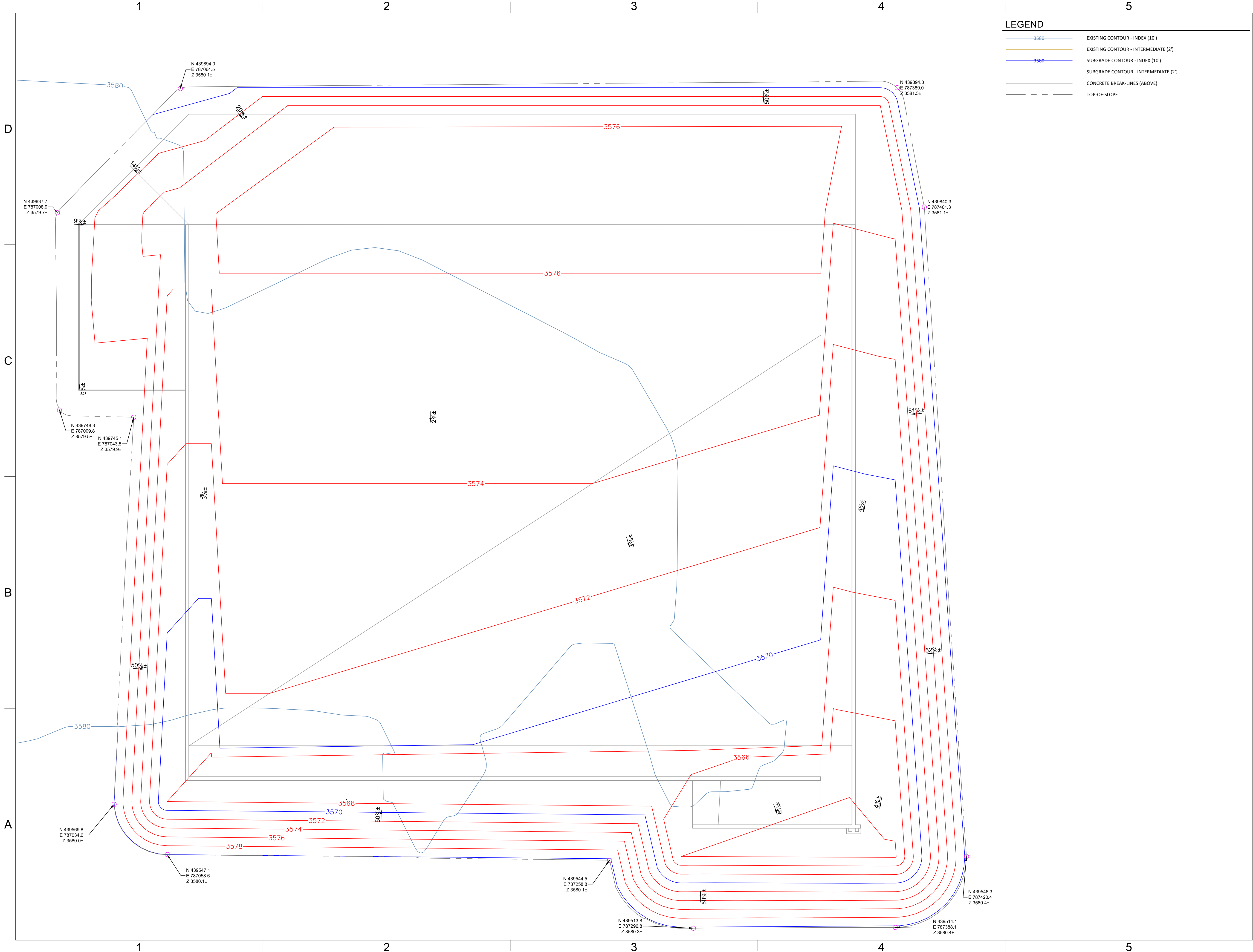
NO	DATE	DESCRIPTION
1	05/11/2018	PROJECT PROCUREMENT
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ISSUING OFFICE: RIO RANCHO PROJECT NO: 0118.17

### WEST DRYING PAD LAYOUT AND SECTION LOCATIONS

**C-103**

FILE NAME: X:\2017\0118.17\02\_DSGN\02\_DWG\050\_CIVIL\06\_MudMgmt\C-104-subgrade - 2017.dwg LAYOUT NAME: C-104 PRINTED: Friday, May 11, 2018 - 3:15pm USER: amcbrien



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- — — EXISTING CONTOUR - INTERMEDIATE (2')
- 3580 — SUBGRADE CONTOUR - INDEX (10')
- — — SUBGRADE CONTOUR - INTERMEDIATE (2')
- — — CONCRETE BREAK-LINES (ABOVE)
- — — TOP-OF-SLOPE



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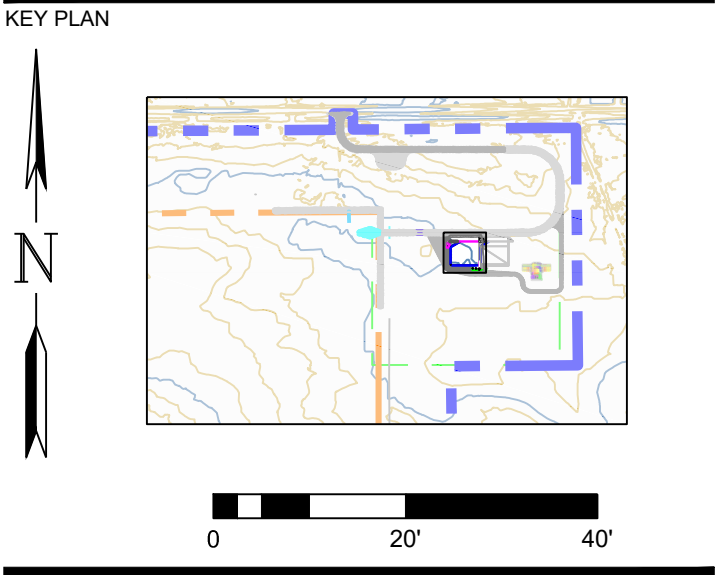
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**SITE DEVELOPMENT  
& MUD MANAGEMENT  
PAD CONSTRUCTION  
PLANS**

LEA COUNTY, NEW MEXICO



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ISSUING OFFICE: RIO RANCHO		PROJECT NO: 0118.17

**WEST DRYING  
PAD SUBGRADE  
AND LINER  
DESIGN**

**C-104**

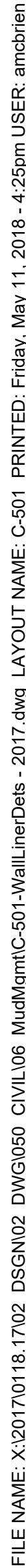


# SITE DEVELOPMENT & MUD MANAGEMENT PAD CONSTRUCTION PLANS

## KEY PLAN

1	05/11/2018	PROJECT PROCUREMENT
-	05/02/2018	PRE-BID REVIEW
NO	DATE	DESCRIPTION
ISSUING OFFICE: RIO RANCHO PROJECT NO: 0118.17		

# C-501





GENERAL REQUIREMENTS

- A. REFER TO SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR MATERIALS, PRODUCTS, HANDLING, AND INSTALLATION.
- B. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE UNTIL THE CONSTRUCTION OF THE STRUCTURE REACHES ITS FINAL CONDITION, AND ALL DIAPHRAGMS, BRACES, AND/OR SHEAR WALLS ARE INSTALLED.
- C. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF TEMPORARY BRACING AND CONSTRUCTION SUPPORTS FOR NEW AND EXISTING STRUCTURES, AS NECESSARY TO COMPLETE THE PROJECT. NO PORTION OF THE PROJECT WHILE UNDER CONSTRUCTION IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTOR'S TEMPORARY SUPPORTS AND BRACES. CONTRACTOR SHALL RETAIN A STRUCTURAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED TO DESIGN TEMPORARY BRACING AND CONSTRUCTION SUPPORTS.
- D. APPLY DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED ON DETAILS, TITLES, OR NOTES.
- E. ONLY USE DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS.
- F. THE CONTRACTOR SHALL VERIFY ALL OPENING SIZES AND LOCATIONS WITH OTHER DISCIPLINES. THE DRAWINGS DO NOT SHOW ALL OPENINGS REQUIRED. ADDITIONAL OPENINGS, BLOCKOUTS, AND SLEEVES MAY BE REQUIRED BY OTHER DISCIPLINES AND SHALL BE CONSTRUCTED USING THE TYPICAL DETAILS AND/OR THE CRITERIA INDICATED ON THE DRAWINGS. OPENINGS REQUIRED BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
- G. REFER TO CIVIL CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION RELATING TO THE COORDINATION OF STRUCTURAL COMPONENTS INCLUDING, BUT NOT LIMITED TO:
- a. CIVIL:
1. SITING OF BUILDING GRID LINES WITH RESPECT TO CITY BENCHMARKS
  2. SITE PREPARATION
  3. BACKFILLING MATERIALS AND REQUIREMENTS
  4. PAVING AND SITE ELEMENTS OUTSIDE OF BUILDING ENVELOPE
  5. NEW AND EXISTING SITE UTILITIES
- H. STRUCTURAL COMPONENTS ARE NOT DESIGNED FOR VIBRATING EQUIPMENT. MOUNT VIBRATING EQUIPMENT ON VIBRATING ISOLATORS.

CODES

- ALL FABRICATION, ERECTION, AND DESIGN OF STRUCTURAL MEMBERS SHALL MEET THE MINIMUM STANDARDS OF THE FOLLOWING CODES:
- A. AMERICAN CONCRETE INSTITUTE (ACI): ACI 318-11 AND OTHER APPLICABLE ACI STANDARDS
- B. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) STEEL CONSTRUCTION MANUAL - THIRTEENTH EDITION
- C. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) - STANDARD 7-10
- D. CONCRETE REINFORCING STEEL INSTITUTE ( CRSI)
- E. ASTM SPECIFICATIONS

DESIGN LOADS

- A. ALL APPLICABLE DEAD LOADS
- B. LIVE LOADS:
- FLOOR LIVE LOAD: 150 PSF
- C. COLLATERAL LOAD: 20 PSF
- D. LATERAL SOIL PRESSURE: 75 PCF
- E. SEISMIC LOADS: PER IBC 2012
- BUILDING CATEGORY: III
- SEISMIC IMPORTANCE FACTOR, I<sub>s</sub>: 1.25
- MAPPED SPECTRAL RESPONSE ACCELERATION, S<sub>s</sub>: 19.1%g
- MAPPED SPECTRAL RESPONSE ACCELERATION, S<sub>1</sub>: 4.4%g
- SITE CLASS: D
- SPECTRAL RESPONSE COEFFICIENT, S<sub>DS</sub>: 0.203
- SPECTRAL RESPONSE COEFFICIENT, S<sub>D1</sub>: 0.07
- SEISMIC DESIGN CATEGORY: B

MATERIAL PROPERTIES

- CONCRETE 4000 PSI
- REINFORCING STEEL ASTM A615 GR 60

FOUNDATIONS

- A. ALL FOOTINGS ARE DESIGNED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 3500 POUNDS PER SQUARE FOOT AT A MINIMUM DEPTH OF 3 FEET BELOW EXISTING GRADE.
- B. ALL EXTERIOR GRADE BEAMS SHALL BE CHAMFERED 3/4 INCH ON THE EXPOSED EXTERIOR CORNER.

SITE PLANNING AND FILL NOTES

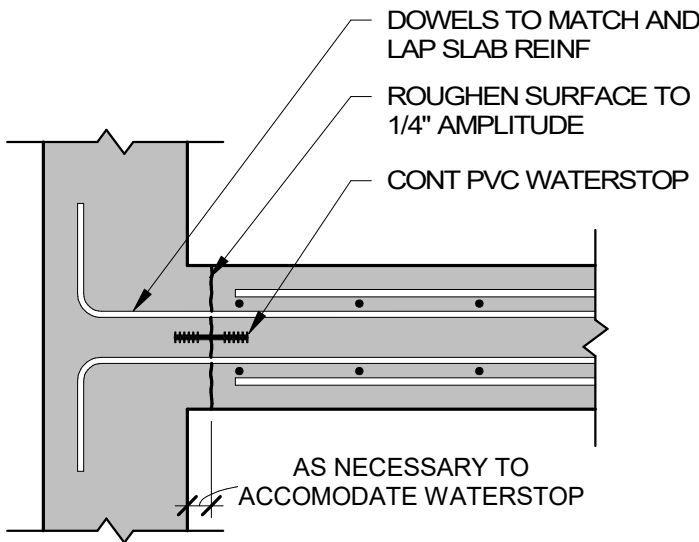
- A. PROPER CONSTRUCTION DRAINAGE SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING FOUNDATION CONSTRUCTION. PONDING OF WATER AT THE SITE SHOULD BE AVOIDED DURING ALL PHASES OF CONSTRUCTION.
- B. SCARIFY SITE TO MINIMUM DEPTH OF 6 INCHES TO REMOVE ALL EXISTING VEGETATION. REMOVAL SHALL EXTEND 5 FOOT BEYOND BUILDING AREAS AND 2 FOOT BEYOND PAVING AREAS.
- C. SCARIFY AND RECOMPACT TOP 6 INCHES OF SUBGRADE TO MINIMUM OF 95 PERCENT OF ASTM D698 OR ASTM D1557 MAXIMUM DENSITY. REMOVE AND REPLACE WEAK OR SOFT AREAS WITH GRANULAR FILL OR BASE MATERIALS.
- D. BUILDING PAD SHALL BE RAISED TO PROPER ELEVATION USING SATISFACTORY SOILS COMPACTED IN 8 INCH MAXIMUM LOOSE LIFTS TO 95 PERCENT OF ASTM D698 MAXIMUM DENSITY, OR AS PRESCRIBED BY THE GEOTECHNICAL ENGINEER. MOISTURE SHALL BE CONTROLLED TO WITHIN 2 PERCENT OF OPTIMUM PER D698 DURING COMPACTION OPERATIONS. FOOTINGS MAY BE BACK FILLED USING SATISFACTORY SOILS AS SPECIFIED, COMPACTED IN 6 INCH MAXIMUM LOOSE LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D698.
- F. UTILITY TRENCHES WITHIN BUILDING OR PAVING AREAS SHALL BE FILLED PER THE ABOVE CRITERIA.
- G. TREE STUMPS, IF ENCOUNTERED, SHOULD BE COMPLETELY REMOVED AND BACK FILLED PER THE ABOVE CRITERIA.

CONCRETE

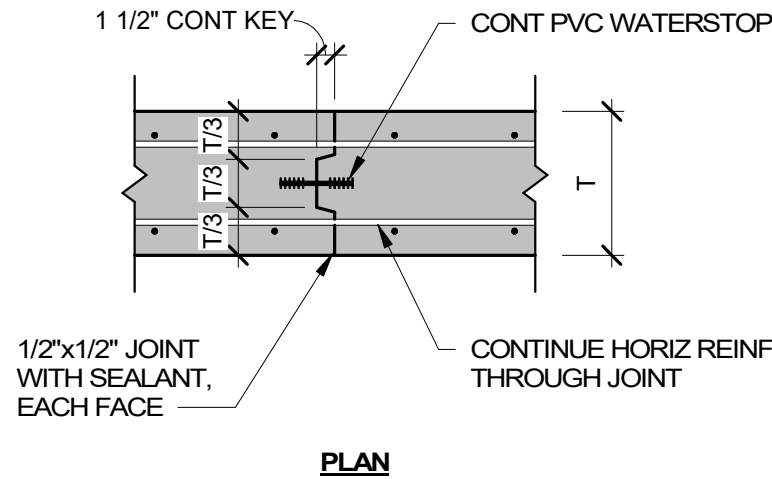
- A. ALL EXTERIOR CONCRETE, INCLUDING WALKS AND CURBS OUTSIDE THE BUILDING LINE, SHALL BE AIR ENTRAINED.
- B. PROVIDE STANDARD BAR CHAIRS AND SPACERS FOR REINFORCING AT A MAXIMUM OF 4 FOOT CENTERS FOR ALL SLABS AND BEAMS.
- C. LAP CONTINUOUS UNSCHEDULED REINFORCING BARS AS FOLLOWS: BOTTOM BARS IN MEMBERS SUPPORTED BY COLUMNS OR FOOTINGS - 12 INCH AT SUPPORTS ONLY; ALL OTHERS - (3x) BAR DIAMETERS MINIMUM.
- D. ALL HORIZONTAL REINFORCING IN CONTINUOUS FOOTINGS AND WALLS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP A MINIMUM OF (3x) BAR DIAMETERS, OR 24 INCH MINIMUM.
- E. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE BEAM, FOOTING, WALL, OR SLAB POURS. ALL CONSTRUCTION JOINTS SHALL BE MADE WITHIN THE CENTER THIRD OF SPANS WITH VERTICAL BULKHEADS. THE LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
- F. WHERE CONCRETE PILASTERS, COLUMNS, WALLS, OR BEAMS ARE TO BE LEFT EXPOSED AND DO NOT ABUT OTHER MATERIALS, EXTERNAL CORNERS SHALL BE CHAMFERED 3/4 INCH.
- G. WHERE SLEEVES ARE REQUIRED THROUGH BEAMS OR JOISTS, VERTICAL OR HORIZONTAL PIPE SLEEVES SHALL BE PROVIDED AS SPECIFIED UNDER THE MECHANICAL AND ELECTRICAL SECTIONS OF THE SPECIFICATION. LOCATION OF ALL SUCH SLEEVES SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. WHERE NECESSARY FOR STRUCTURAL REASONS, BEAMS OR JOISTS SHALL BE WIDENED TO COMPENSATE FOR THE LOSS OF CROSS SECTION DUE TO THE SLEEVE. ADD ONE EXTRA TIE OR STIRRUP ON BOTH SIDES OF EACH SLEEVE. WHERE TWO OR MORE PIPE SLEEVES ARE REQUIRED THROUGH CONCRETE SLABS, A DISTANCE EQUAL TO THREE TIMES THE LARGER SLEEVE DIAMETER SHALL BE PROVIDED BETWEEN SLEEVES.

FLOOR SLABS

- A. CURING SLABS ON GRADE
- a. SLABS ON GRADE SHALL BE WET CURED FOR 7 DAYS AFTER CONCRETE PLACEMENT. WET CURING SHALL BEGIN IMMEDIATELY AFTER FINAL FINISHING OF SLAB SURFACE AND SHALL CONSIST OF CONTINUOUS MISTING BY SPRINKLER OR WET BURLAP. CONTRACTOR SHALL APPLY APPROVED CURING COMPOUND.
- B. SPACING OF JOINTS SHALL BE 60'-0" MAXIMUM. CONTRACTOR SHALL SUBMIT PROPOSED JOINT LAYOUT FOR APPROVAL.

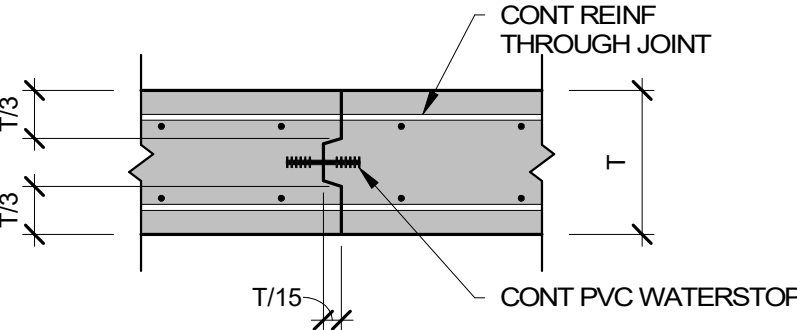


D4 SLAB JOINT AT WALLS/BEAMS  
NTS

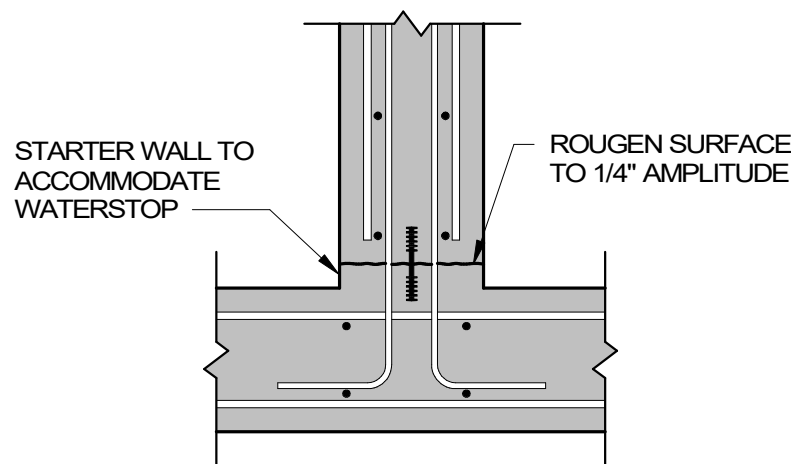


- NOTES:
1. PROVIDE CONSTRUCTION JOINT AT 60'-0" MAX.
  2. WALL JOINTS SHALL CORRESPOND TO SLAB JOINT LOCATIONS.

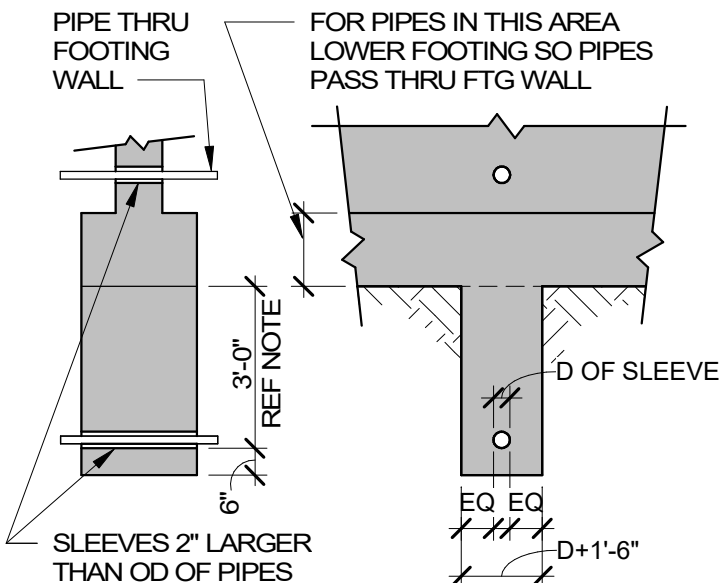
C4 WALL CONSTRUCTION JOINTS  
NTS



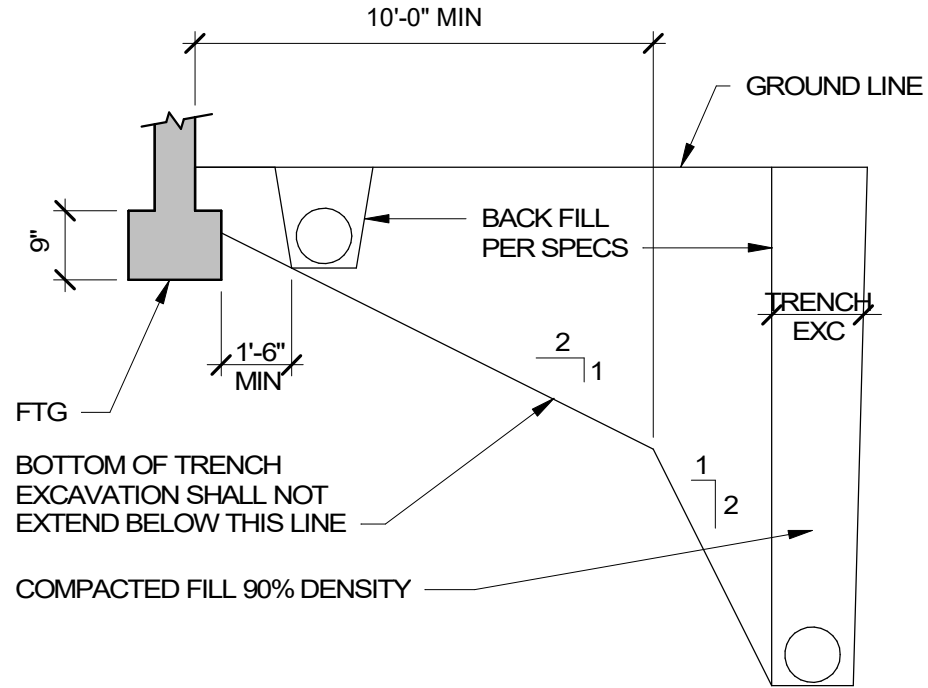
B4 CONSTRUCTION JOINTS IN SLABS AT CONTAINMENT AREAS  
NTS



A4 JOINT AT BASE OF WALLS  
NTS

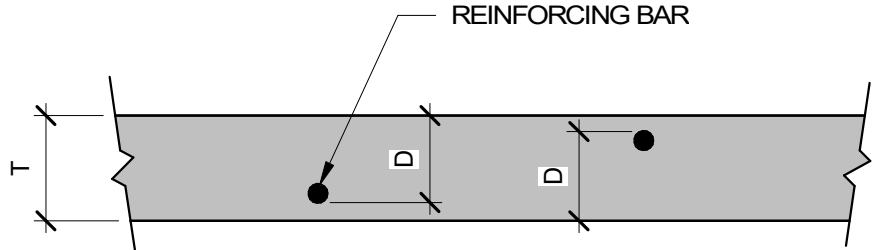


D5 EXCAVATIONS  
NTS



- NOTE:
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING, SHEATHING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACK FILL IS COMPLETED PER SPECIFICATIONS.

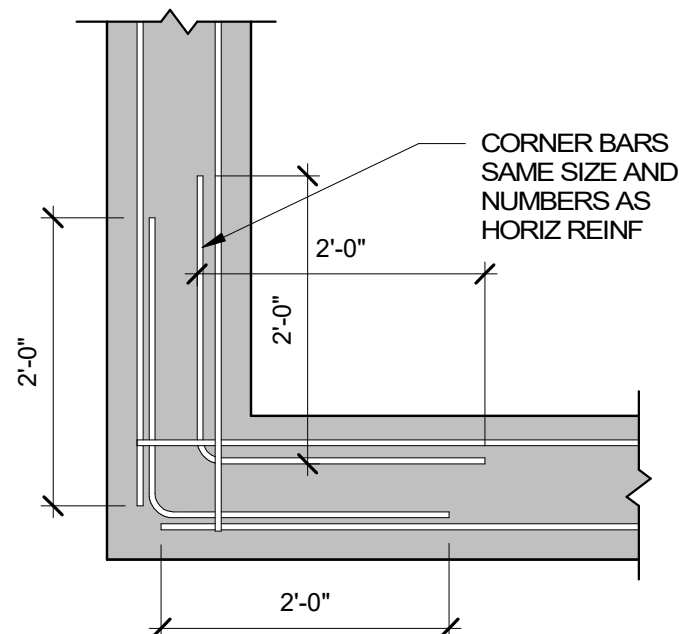
C5 EXCAVATIONS  
NTS



UNLESS OTHERWISE NOTED, REINFORCING SHALL BE PLACED AS SHOWN ON THE DRAWINGS WITHIN THE FOLLOWING TOLERANCE:

- DEPTH, D, IN SLABS, JOISTS, BEAMS, WALLS, COLUMNS AND SIMILAR ELEMENTS WHERE D IS 24" OR LESS ±1/4"
- WHERE D IS MORE THAN 24" ±1/2"
- LONGITUDINAL LOCATION OF BENDS AND ENDS OF BARS ±2"
- EXCEPT THAT SPECIFIED CONCRETE COVER AT ENDS OF MEMBERS SHALL NOT BE REDUCED.
- FABRICATED DIMENSIONS OF TIES, STIRRUPS AND SPIRALS 0'-1/4"
- OFFSET DIMENSIONS IN BENT BARS 0'-1/2"
- DIMENSION FROM FACE OF SUPPORT TO LOCATION OF A TIE OR STIRRUP ±1"

B5 TOLERANCES FOR PLACING AND FABRICATION OF REINFORCING BARS  
NTS



A5 TYPICAL CORNER BAR  
NTS



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OWL DRYING PAD DESIGN

KEY PLAN

NO	DATE	DESCRIPTION
1	05/11/18	PACKAGE RELEASE DATE

ISSUING OFFICE: BERNALILLO PROJECT NO: 0118.17

GENERAL NOTES AND TYPICAL FOUNDATION DETAILS

S-001



5/11/2018 11:11:11 AM

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**OWL  
DRYING  
PAD  
DESIGN**

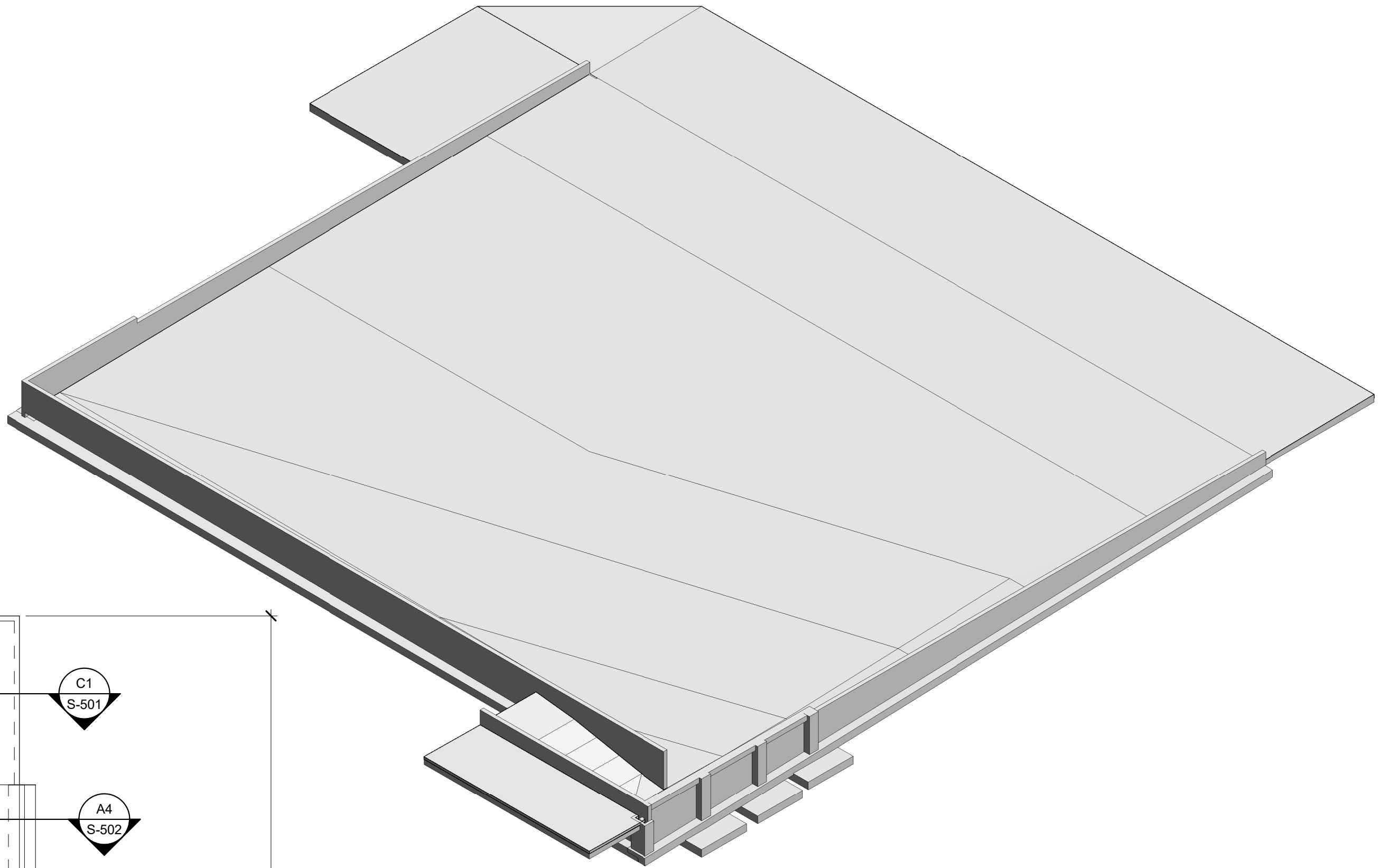
KEY PLAN

NO	DATE	DESCRIPTION
XX/XX/XX	PACKAGE RELEASE DATE	

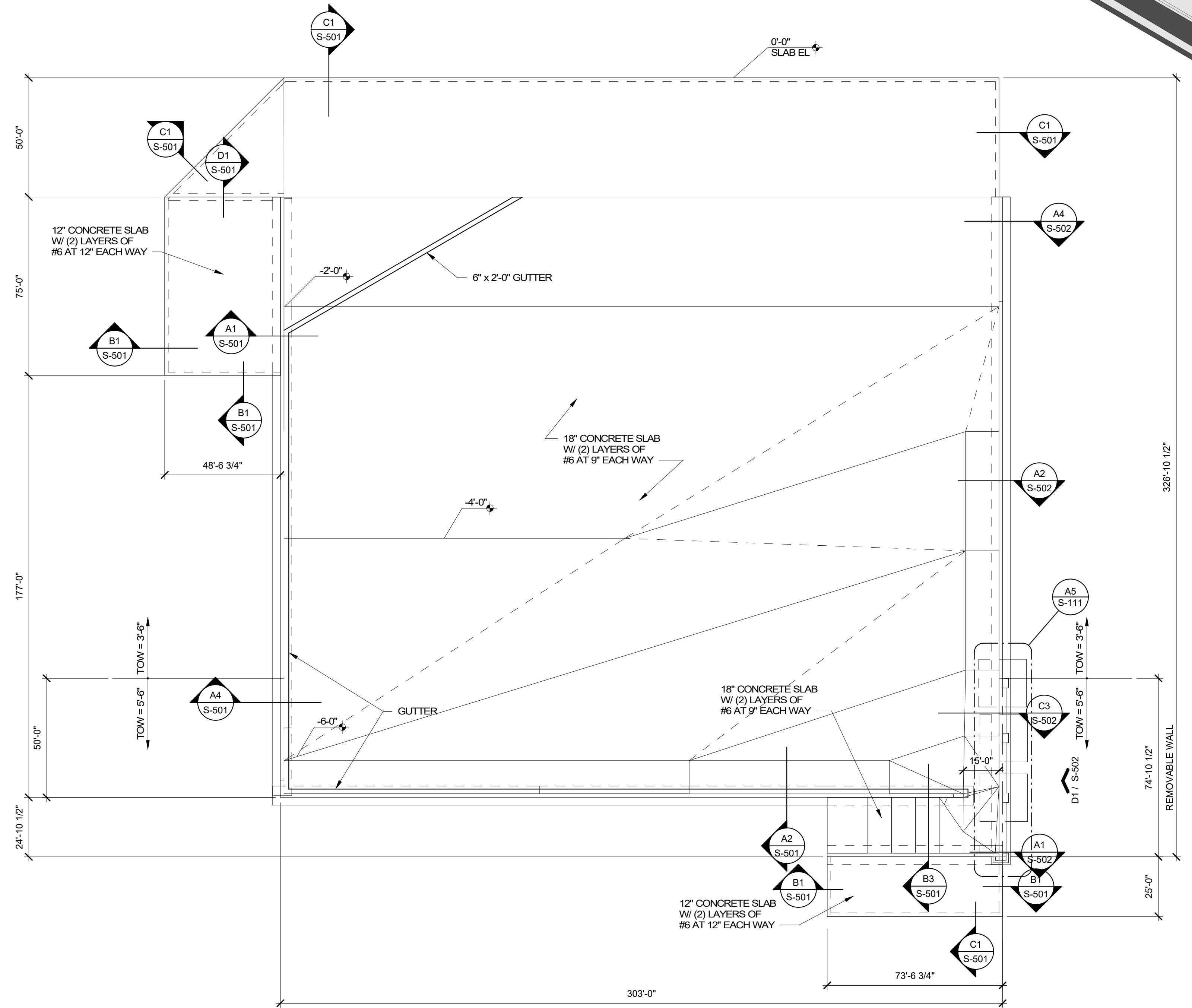
ISSUING OFFICE: BERNALILLO PROJECT NO: 0118.17

**FOUNDATION PLAN**

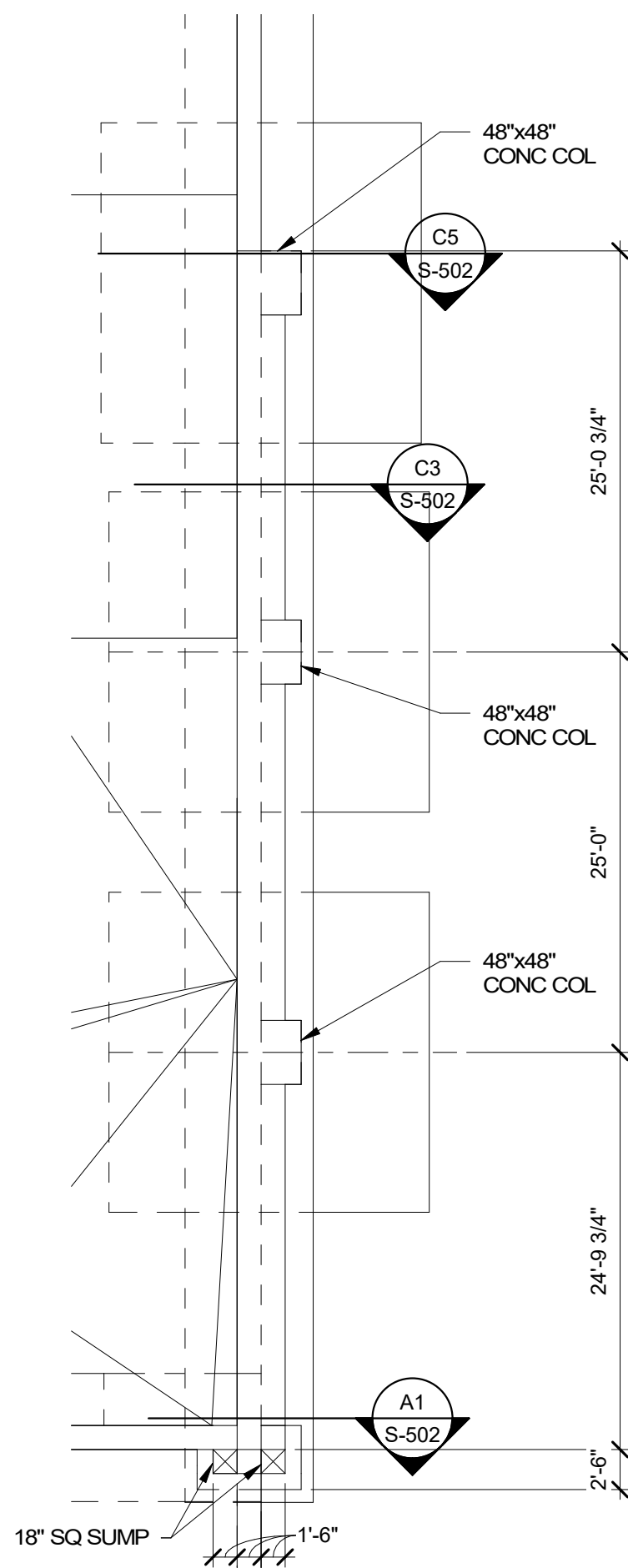
**S-111**



D  
C  
B  
A



**A1** FOUNDATION PLAN  
1" = 30'-0"



**A5** ENLARGED PLAN  
1" = 10'-0"



5/11/2018 11:11:13 AM

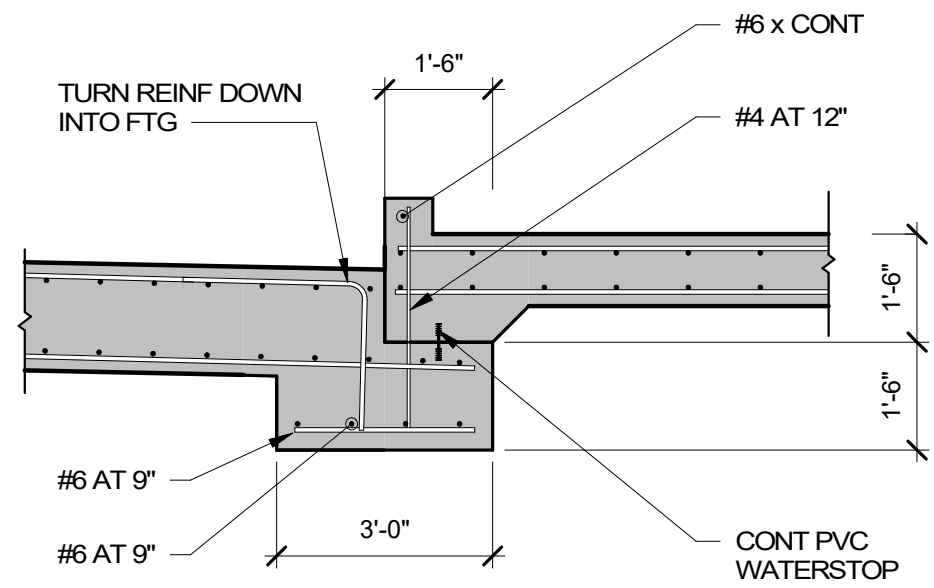
D

C

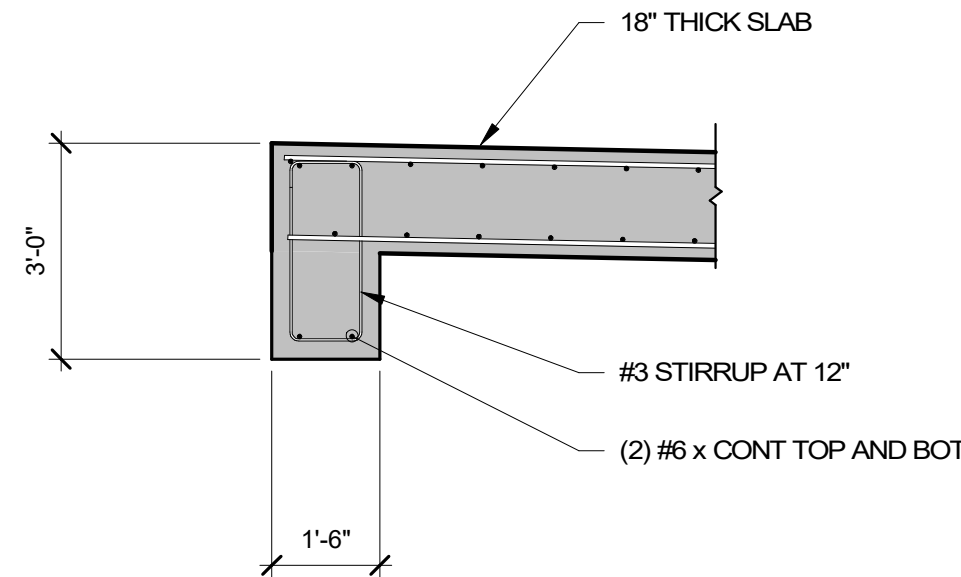
B

A

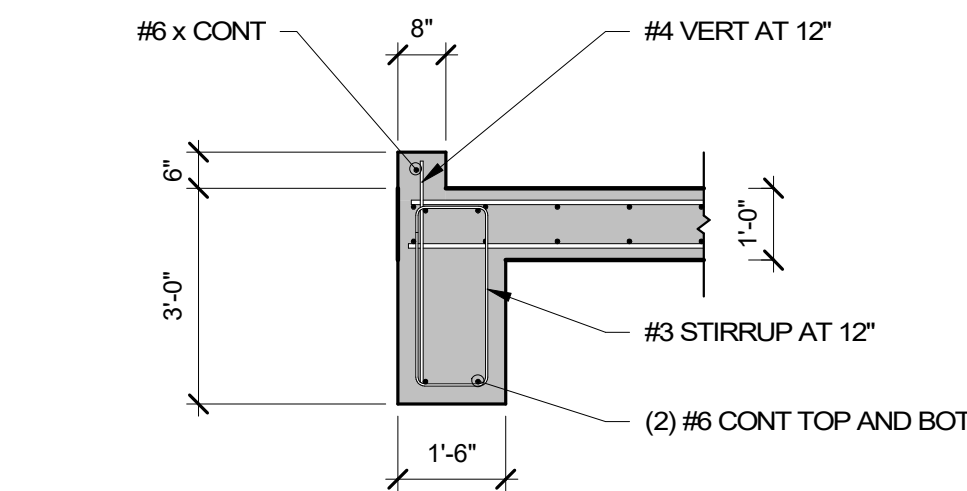
**D1 SECTION**  
3/8" = 1'-0"



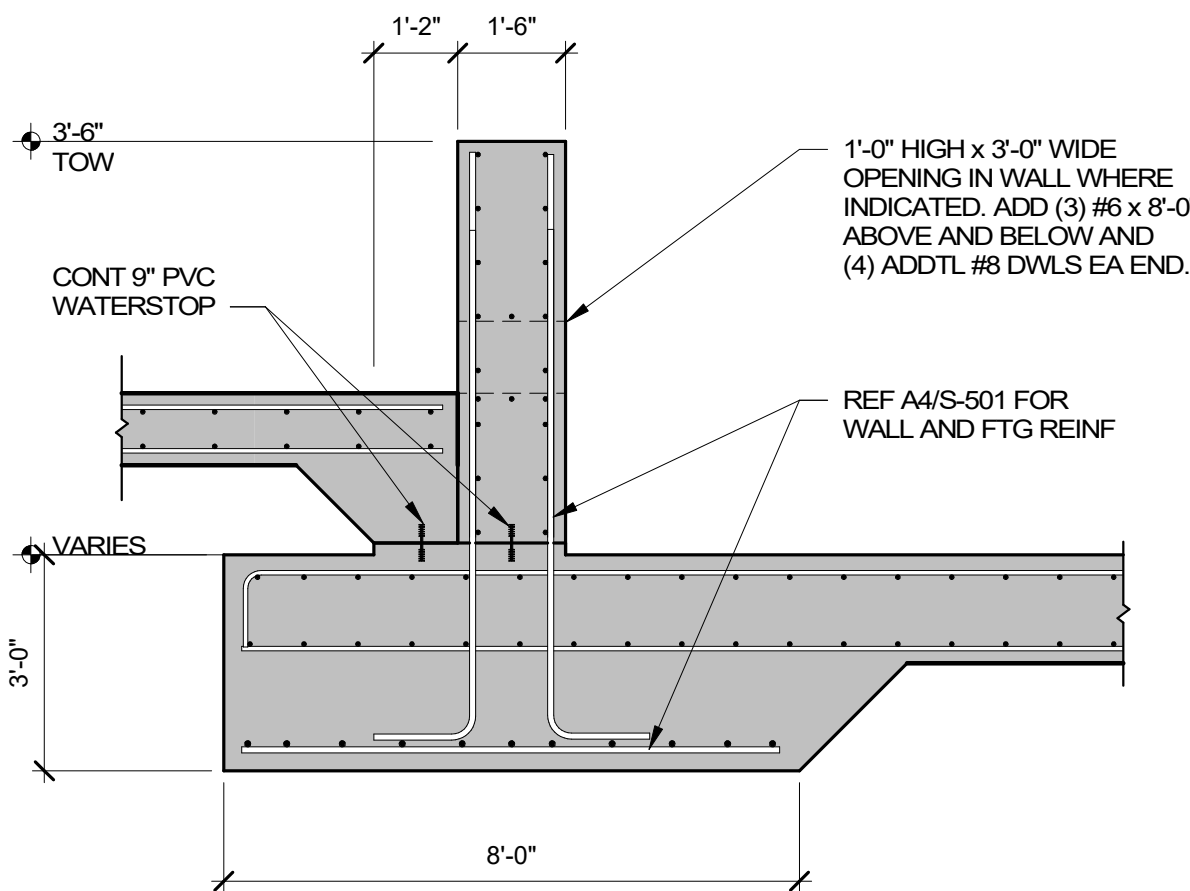
**C1 SECTION**  
3/8" = 1'-0"



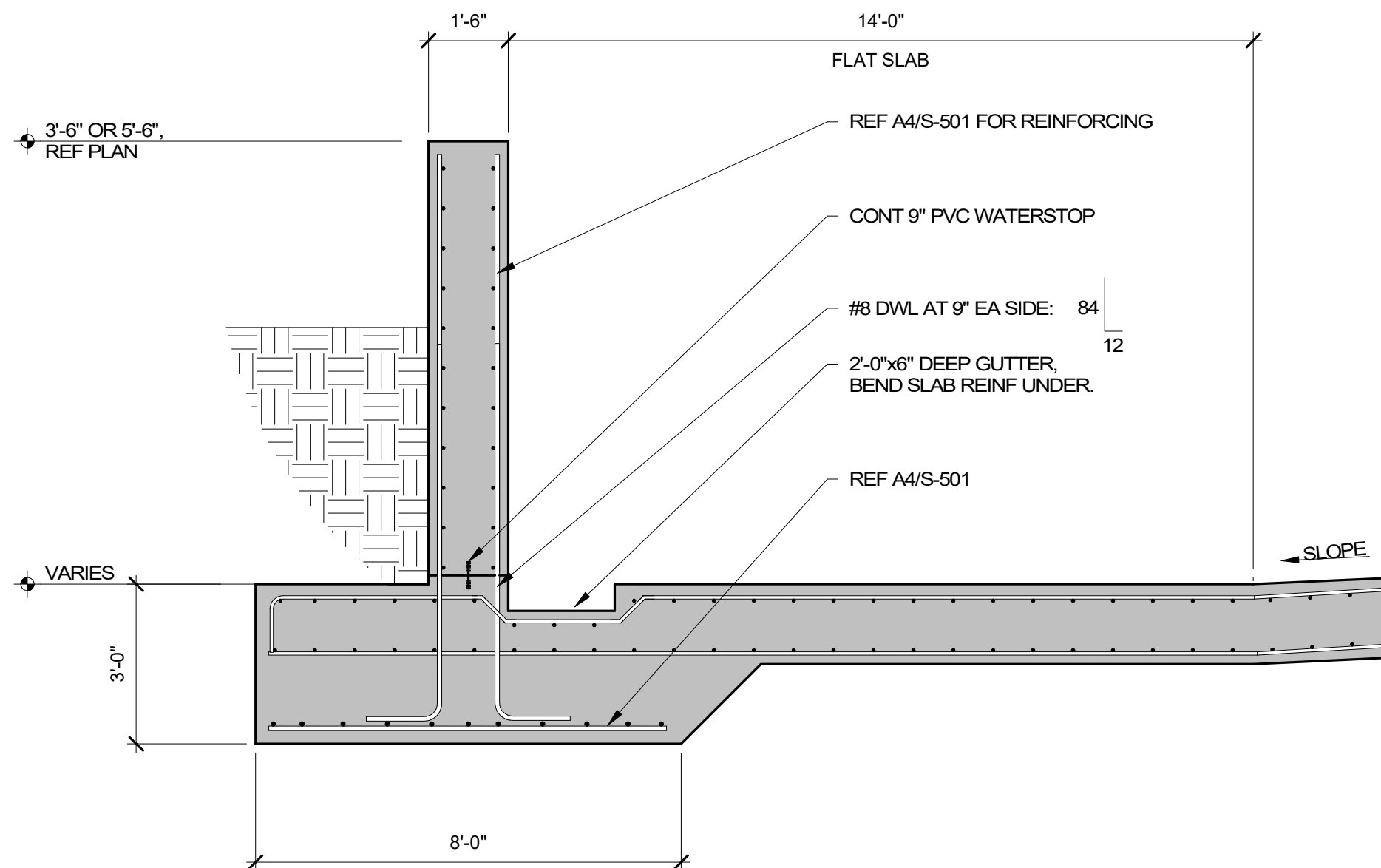
**B1 SECTION**  
3/8" = 1'-0"



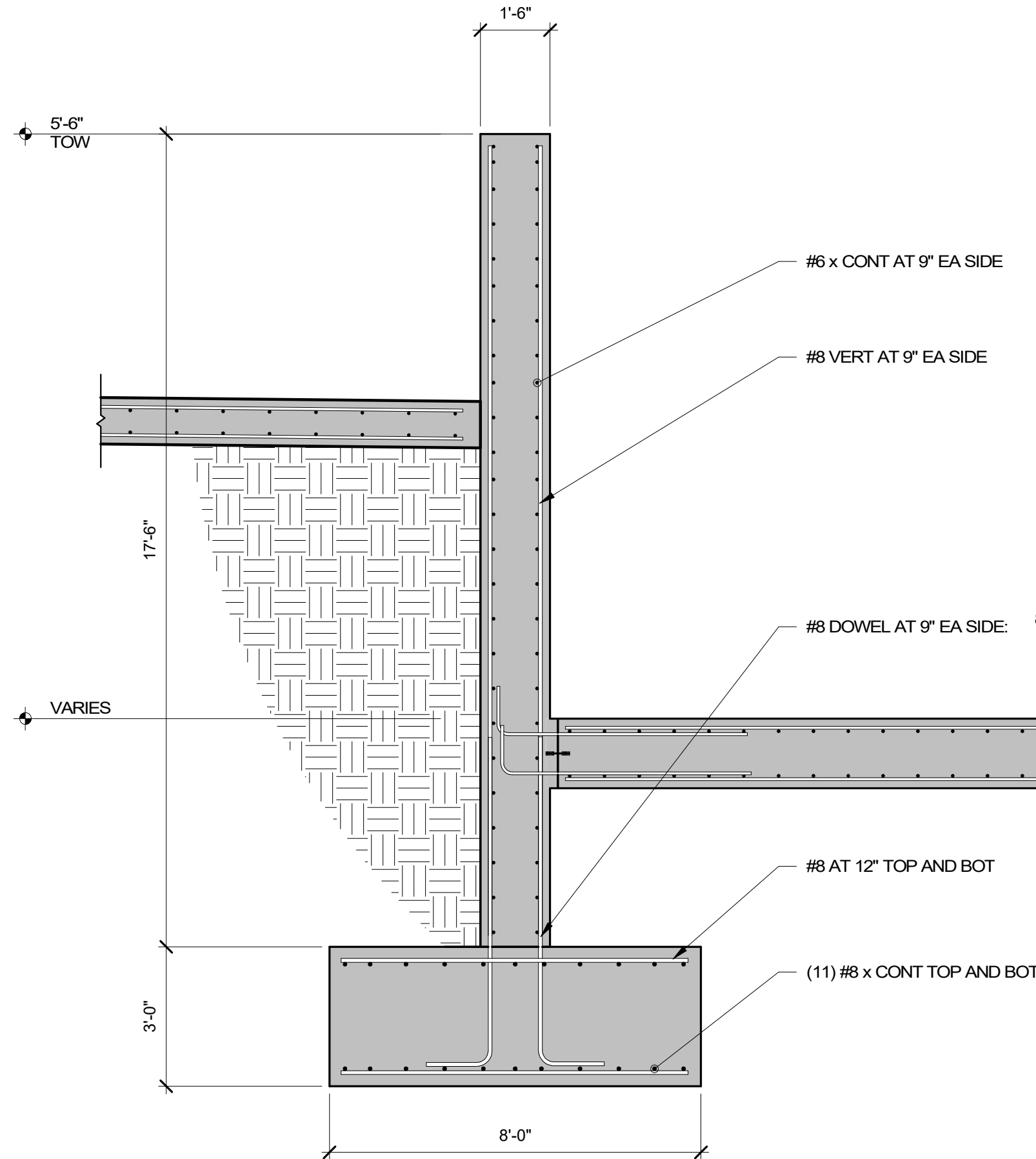
**A1 SECTION**  
3/8" = 1'-0"



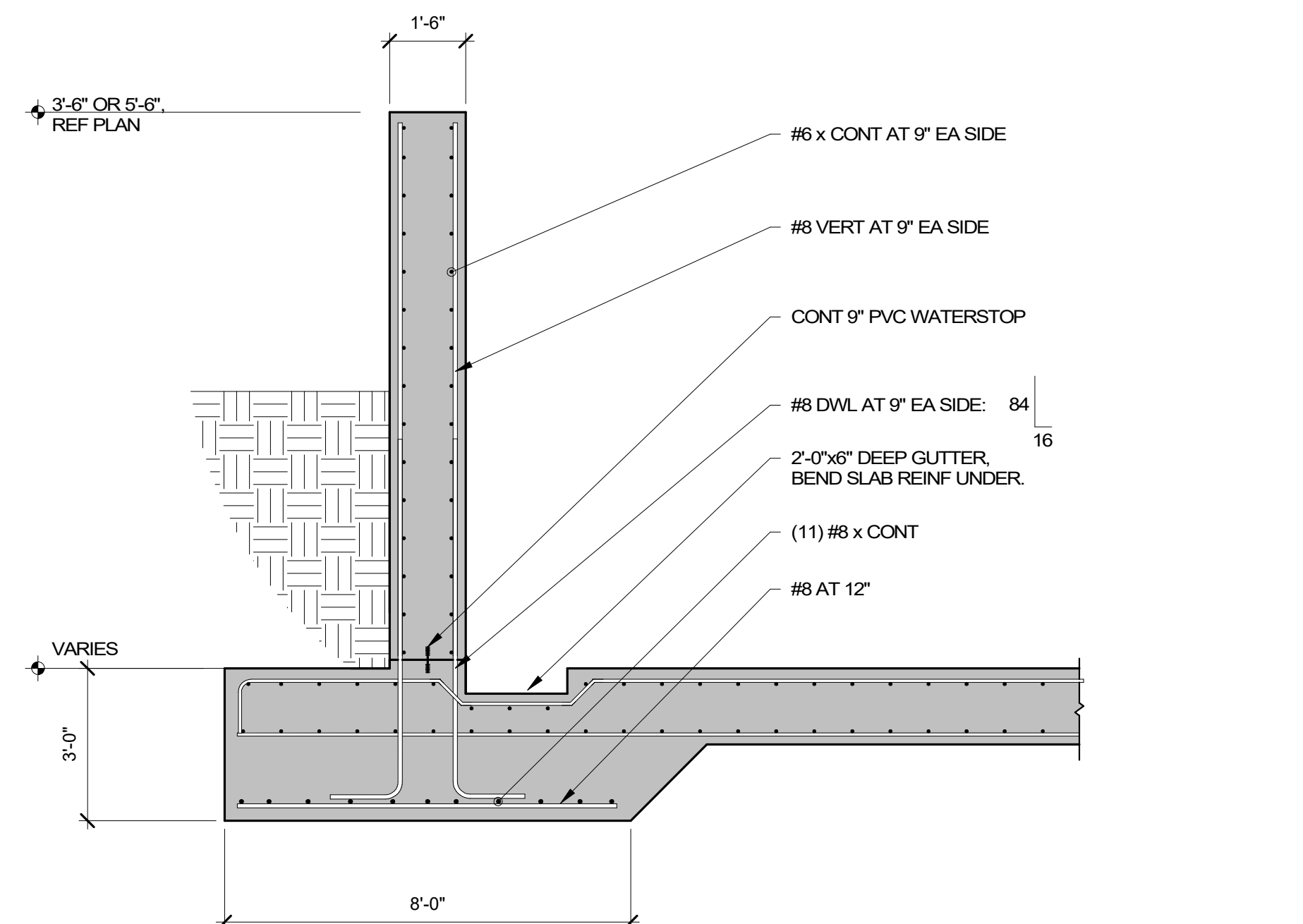
**A2 SECTION**  
3/8" = 1'-0"



**B3 SECTION**  
3/8" = 1'-0"



**A4 SECTION**  
3/8" = 1'-0"



**OWL  
DRYING  
PAD  
DESIGN**

KEY PLAN

NO	DATE	DESCRIPTION
1	05/11/18	PACKAGE RELEASE DATE
2	05/11/18	ISSUING OFFICE: BERNALILLO
3	05/11/18	PROJECT NO: 0118.17

**FOUNDATION DETAILS**

**S-501**



5/11/2018 11:11:15 AM

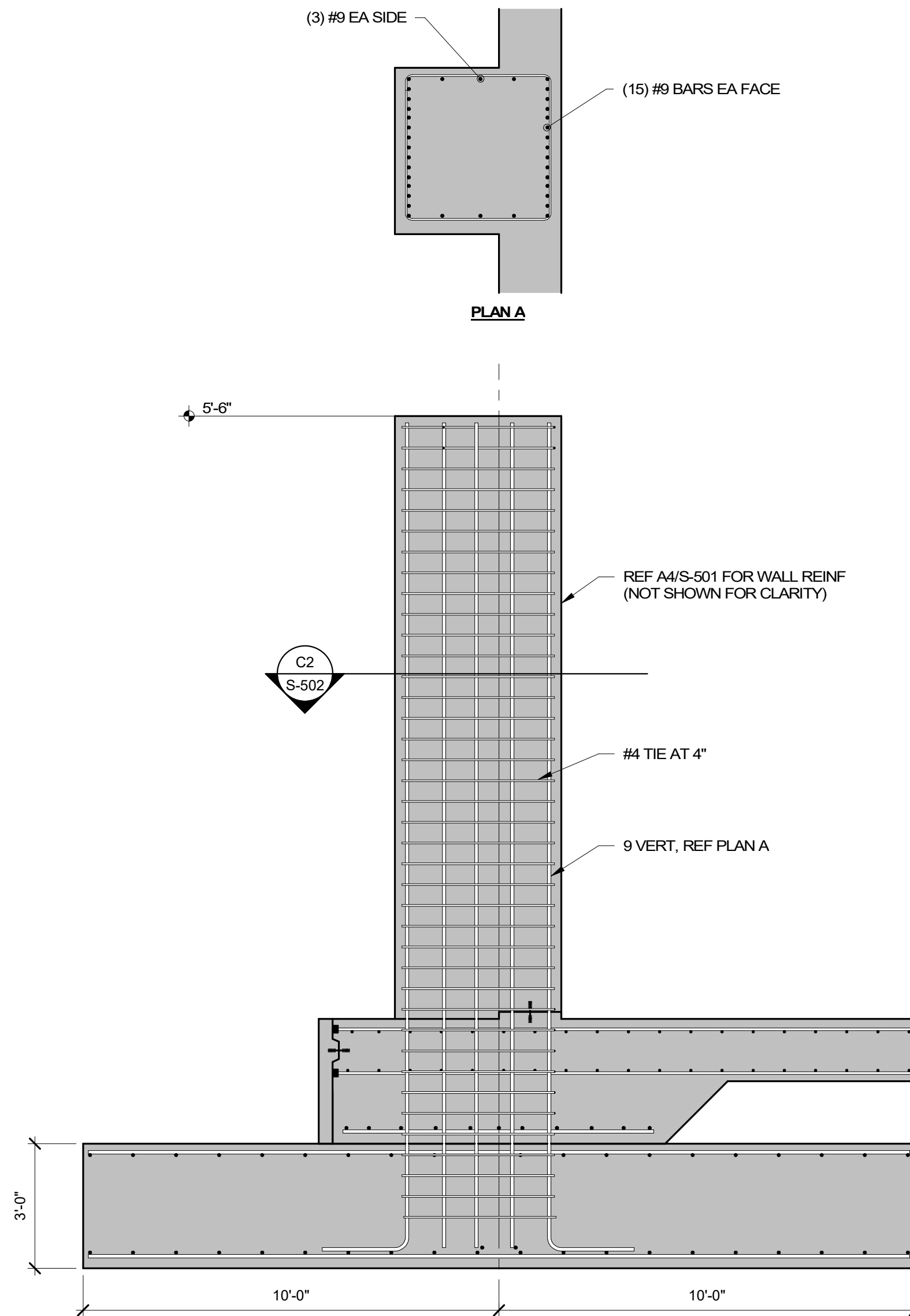
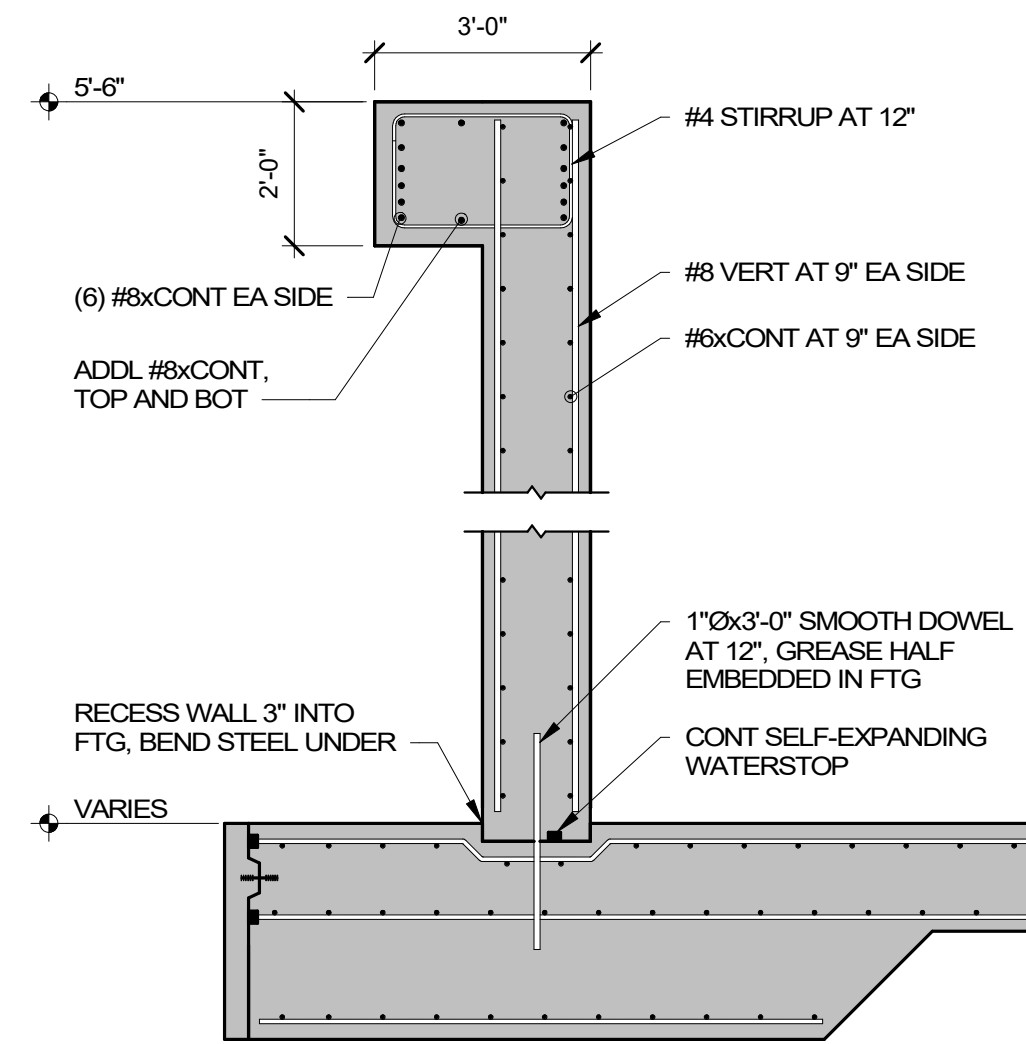
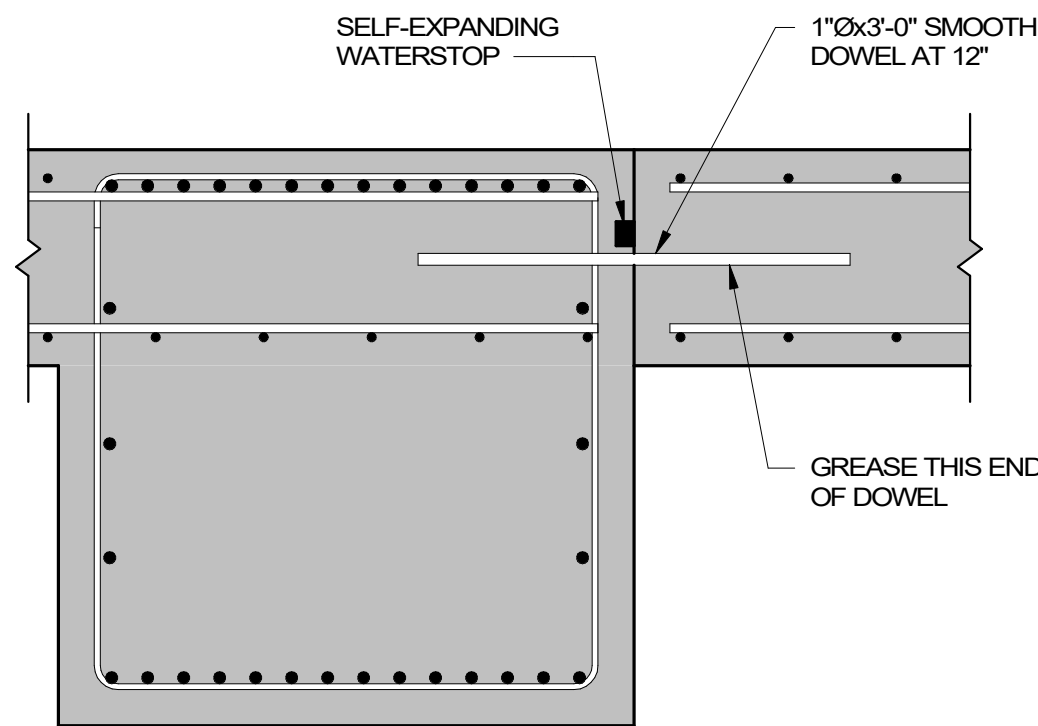
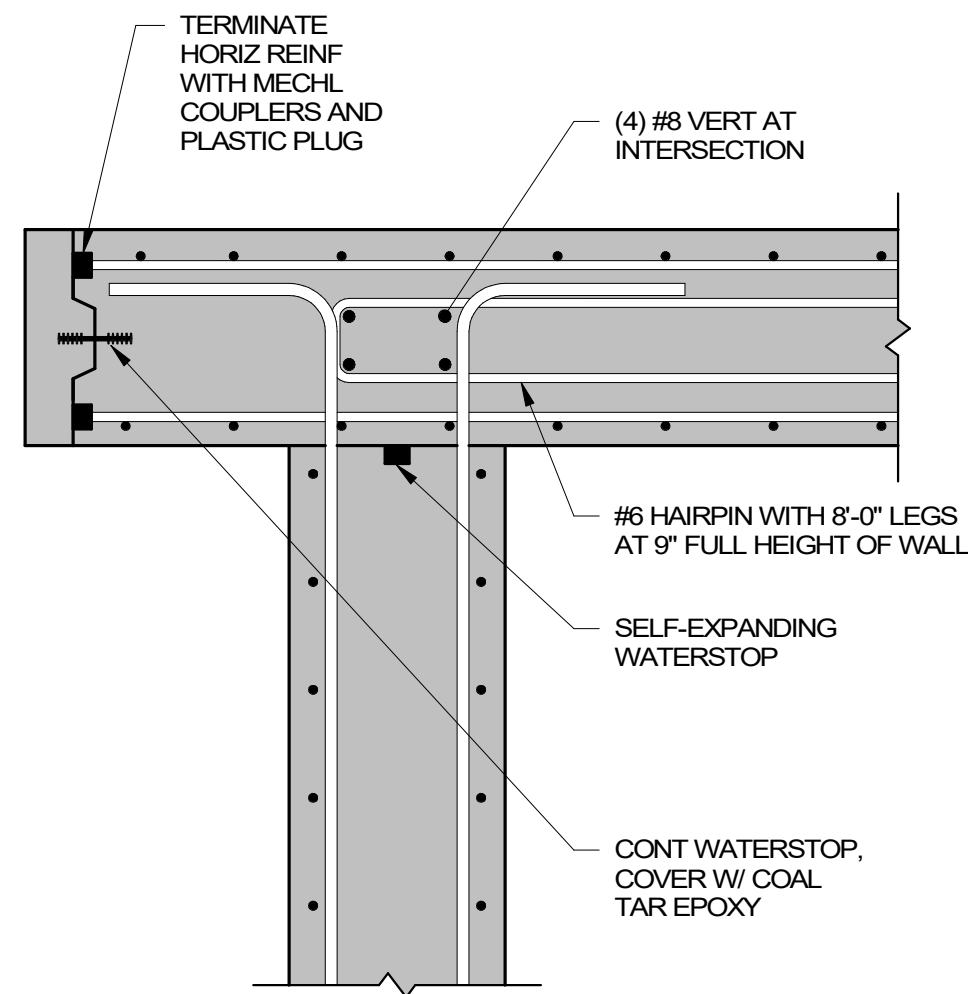
D

C

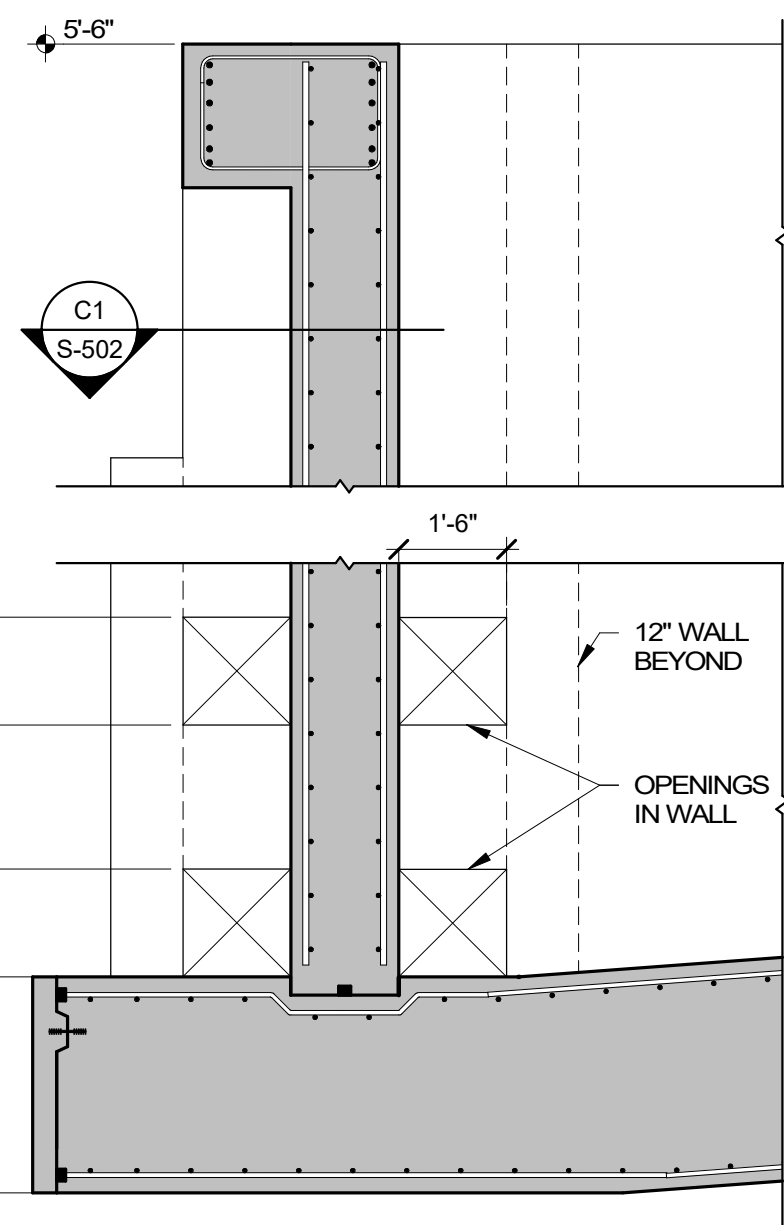
B

A

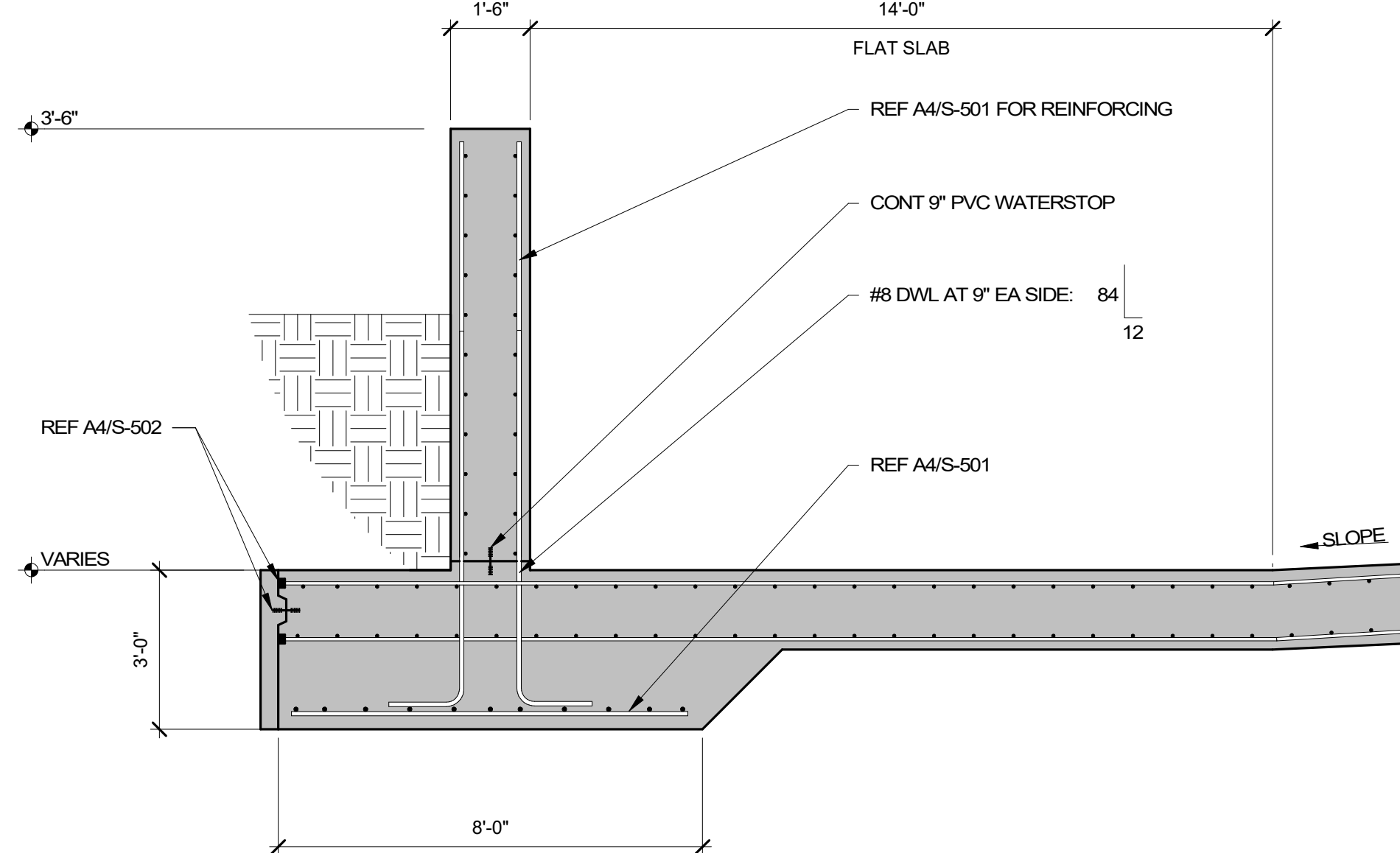
**D1 REMOVABLE WALL**  
3/16" = 1'-0"



**C1 PLAN**  
3/4" = 1'-0"

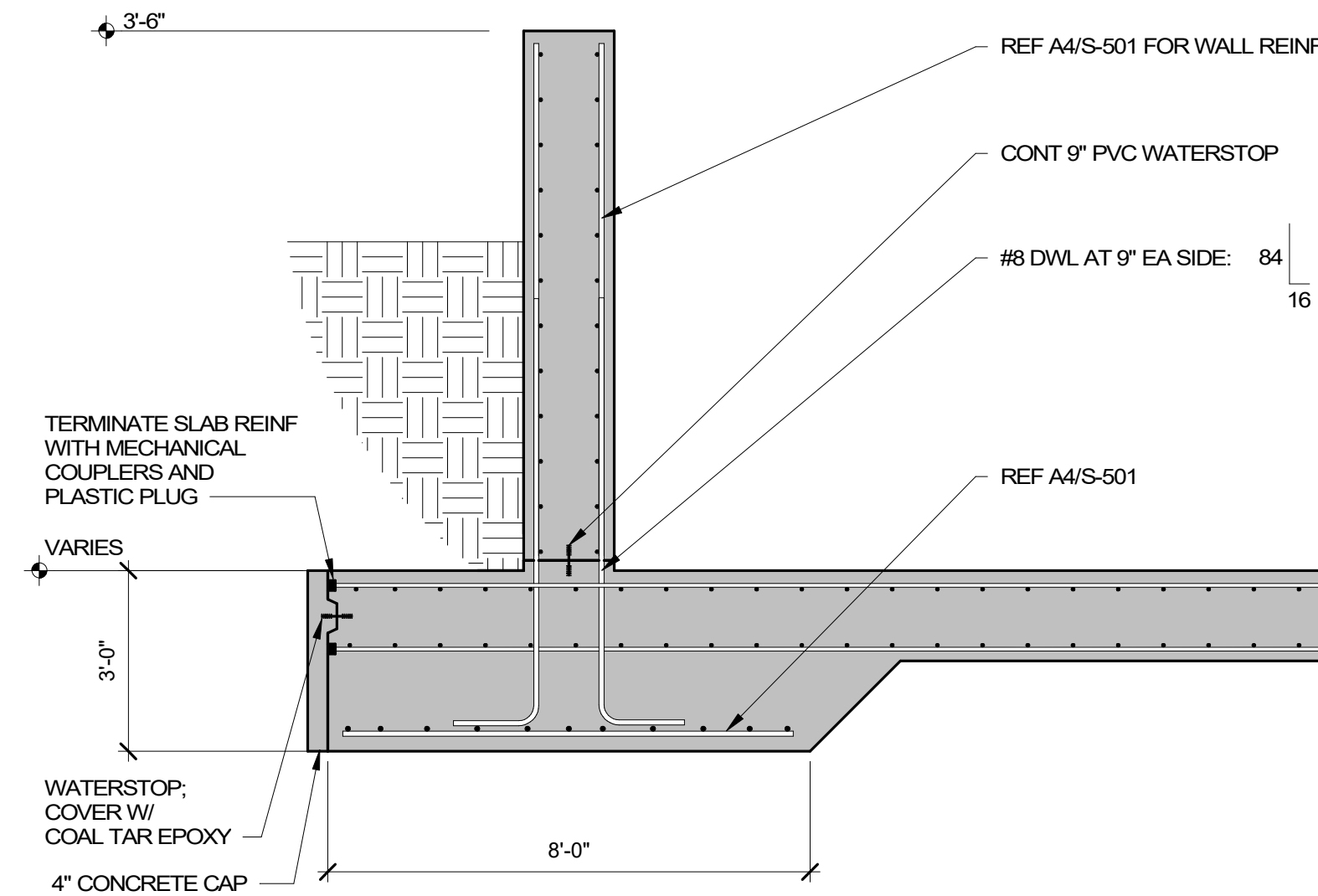


**C2 PLAN**  
3/4" = 1'-0"



**C3 SECTION**  
3/8" = 1'-0"

**C5 SECTION**  
3/8" = 1'-0"



**A1 SECTION**  
3/8" = 1'-0"

**A2 SECTION**  
3/8" = 1'-0"

**A4 SECTION**  
3/8" = 1'-0"

**OWL  
DRYING  
PAD  
DESIGN**

KEY PLAN

NO	DATE	DESCRIPTION
XX/XX/XX	PACKAGE RELEASE DATE	

ISSUING OFFICE: BERNALILLO PROJECT NO: 0118.17

**FOUNDATION DETAILS**

**S-502**