

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-05-00M	2003	19	40

GENERAL NOTES

- A. See also:
1. Special notes on drawings
  2. Contract Special Provisions.
  3. Hawaii Standard Specifications for Road, Bridges and Public Works Construction, 1999
- B. Discrepancies – contractor shall verify all dimensions and conditions and shall report any discrepancies in writing to the Engineer before commencing work or ordering materials.
- C. All new materials and workmanship shall conform to the requirements of the local building code in addition to the codes cited.
- D. Details shown on drawings shall be typical for all similar conditions. Modify details for special conditions as directed by the Engineer.

CONSTRUCTION NOTES

- A. Neither the professional activities of representatives of the State of Hawaii (the State) including SSFM International, Inc. (SSFM), nor the presence of the State and SSFM or the State's and SSFM's employees at a construction site, shall relieve the general contractor and any other entity of their obligations, duties, and responsibilities including, but not limited to, construction means, methods, sequences, techniques, or procedures necessary for performing, superintending, or coordinating all portions of the work of construction in accordance with the contract documents and any health or safety precautions required by any regulatory agencies.
- B. The Contractor shall notify the Engineer at least 48 hours in advance for excavations, installing reinforcing, and concrete pours.
- C. Construction loading shall not exceed the design live load unless special shoring is provided. Allowable loads shall be reduced in areas where the structure has not attained its full design strength.
- D. See architectural drawings for chamfers, edge radii, drips, reglets, finishes, and other non-structural items not shown or specified on structural drawings.

EARTHWORK NOTES

- A. Fill material:
1. Shall be "non-expansive" in character, and of an acceptable gradation. Samples shall be submitted or shown to the State Testing Lab for approval before delivery to the site.
  2. Fill under slabs on grade shall meet requirements for "Aggregate for Untreated Base" (3/4" max).
- B. Compaction:
1. Backfill around footings and foundations shall be compacted in 6" layers.
  2. Fill shall be placed in successive loose layers 6" deep which shall each be compacted at optimum moisture content to a compaction equal to or better than 95% of maximum density as determined by ASTM D 1557.
- C. All excavations shall be protected and guarded by the Contractor against danger to life, limb and property.
- D. All excavations shall be considered incidental to various contract items unless shown in the proposal schedule.

EARTHWORK NOTES (CON'T)

- E. Shoring, sheeting, cribbing and lagging, as required to preserve the excavations, earth banks and adjacent structures and property free from damage resulting from the work shall be provided and installed by the Contractor at no cost to the State.

CONCRETE BLOCK NOTES

- A. All standard units shall be 2-cell type conforming to ASTM C90, f'm=1,500psi, unless otherwise shown.
- B. Minimum reinforcing, unless otherwise shown, shall be:
1. Vertical bars – #5 at 32" o.c. with bars also at ends, corners, and intersections. Provide dowels same as for concrete walls.
  2. Horizontal steel – 2- #4 at 32" o.c. and #5 at top of walls with connections to concrete walls or columns as shown. Reinforcing shall be continuous around all corners and intersections.
- C. All cells shall be solidly filled with grout.
- D. Provide vertical control joints in walls at 60 feet o.c. subject to Engineer's approval.
- E. Reinforcement grade, bar bends, details, laps, etc., shall be the same as for concrete.
- F. Concrete block units shall be laid in running bond pattern unless otherwise specified and/or shown.
- G. Mortar shall conform to ASTM C270, type M or S.
- H. Grout shall conform to ASTM C476 with a minimum strength of 2500 psi.

CONCRETE NOTES

- A. All concrete shall develop the following minimum ultimate compressive strengths, with corresponding maximum size of aggregates and slumps as follows (unless shown elsewhere in schedules):
- | Element                   | 28 day<br>Strength<br>(psi) | Maximum<br>Size<br>Aggregate | Slump       |
|---------------------------|-----------------------------|------------------------------|-------------|
| 1. Footings and pedestals | Class A                     | 1 1/2"                       | 3 1/2"±1/2" |
| 2. Slabs                  | 4000                        | 3/4"                         | 3 1/2"±1/2" |
- B. Admixtures: Use of admixture at Contractor's option, but subject to Engineer's approval.
- C. Unless otherwise shown, construction joints shall be located by the Contractor subject to the approval of the Engineer. They shall be so located as to least impair the strength of the structure and to minimize shrinkage stresses. Provide dowels as directed and thoroughly clean and roughen surfaces before proceeding with next pour (this requirement applies to floors and walls).
- D. The use of any calcium chloride in any concrete is prohibited.

REINFORCING STEEL NOTES

- A. Strengths – unless otherwise noted on plans, all reinforcing bars shall be ASTM A615, Grade 60. Stirrups and ties shall be Grade 40.
- B. Splices:
1. Lengths shall be 48 bar diameters or 2'-0" whichever is greater, unless otherwise shown.
  2. Locations unless shown otherwise:
    - (a) Walls – horizontal reinforcing alternately staggered 3'-0" apart.
    - (b) Slabs:
      - (1) Top bars at midspan
      - (2) Bottom bars at supports
- C. Minimum concrete clear cover:
1. Footings, etc., poured against earth. . . . 3"
  2. Footings, etc., poured against forms and later exposed to earth . . . . 2"
  3. Pedestals (from ties or stirrups) . . . 1 1/2"
  4. Walls and slabs exposed to weather or ground:
    - (a) #5 bar or smaller . . . . . 1 1/2"
    - (b) #6 bar or larger . . . . . 2"
- D. Bar bends, hooks, and offsets shall be in accordance with The ACI recommendations.
- E. Minimum reinforcing: if not otherwise shown, minimum reinforcing shall be as follows:
1. Slabs: #4 at 12" top and bottom with top bars extended 3 feet beyond supports or bent 12" into support at the far face. Bottom bars shall extend 6" into support and shall be hooked.

Cold-Formed Steel Notes

- A. Existing Metal Shop Building purlins and girts are to be removed and replaced with new cold-formed metal framing. The Contractor shall have the new purlins and girts designed by a registered professional structural engineer according to portions of the 1994 Uniform Building Code and the current Metal Systems Manual of the Metal Building Manufacturer's Association. The design calculations and any drawings shall bear the seal of a registered professional engineer (Hawaii registration).
- B. Design loads:  
All building dead loads plus the following:
1. Roof live load . . . . . See Design Data
  2. Wind loads . . . . . See Design Data
  3. Seismic loads . . . . . See Design Data

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ORIGINAL PLAN	
NO.	

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LEE T. TAKUSHI

LICENSED PROFESSIONAL ENGINEER

NO. 4767-S

HAWAII USA

4/30/04

EXP. DATE OF THE LICENSE

SIGNATURE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

S-1

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

STRUCTURAL GENERAL NOTES

WAIMEA BASEYARD IMPROVEMENTS

WAIMEA BASEYARD

PROJ. No. HWY-H-05-00M

Scale: As Noted

Date: February, 2003

SHEET No. 1 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-05-00M	2003	20	40

METAL DECKING NOTES

- A. Metal decking shall be capable of supporting the loads specified on the drawings for the indicated spans.
- B. Minimum gage thickness of metal decking shall be 22 gage.
- C. Deflection of roof decking shall not exceed 1/240 of span under full design load.
- D. All metal deck units shall be attached to their supports and to each other to create a continuous diaphragm capable of resisting diaphragm shears of at least 460 pounds per foot for roofs. Minimum fastening shall consist of fusion welds. Manufacturer's specifications shall be followed for attachment requirements.
- E. Steel deck work shall be in accordance with the "Basic Design Specifications" of the Steel Deck Institute.

STRUCTURAL STEEL NOTES

- A. Unless otherwise noted, all structural steel members, angles etc., shall conform to ASTM A36. Hollow structural steel members shall conform to ASTM A500 Grade B.
- B. All welding -- whether shop or field -- shall be done by certified welders only.
- C. Unless shown otherwise all connections shall develop the full strength of member connected for shear and flexure.
- D. Plate inserts embedded in concrete shall have the anchors (bars or rods) fully welded to develop the full strength of the anchors.
- E. Unless shown otherwise, all embedded bolts, anchors, plates, inserts, etc., shall be hot-dipped galvanized after fabrication.
- F. Prime and paint according to manufacturer's recommendations and as follows (final color to be selected by the State):
1. Surface preparation: Near White Cleaning per SSPG-SP10.
  2. Primer: shop applied; one (1) coat; inorganic zinc rich primer. 2.5-4.0 (dft). field touch-up primer to be organic zinc rich primer, 2.5 - 4.0 (dft).
  3. Intermediate coat: epoxy polyamide, 4.0 - 6.0 (dft).
  4. Finish coat: aliphatic polyurethane, 2.0 - 3.0 (dft).
  5. All primers and paints shall be subject to the approval of the engineer. Acceptable manufacturers include Ameron, Carboline, International Paint, and Valspar.
- G. Unless shown otherwise, all bolts shall be ASTM A325, galvanized. Anchor bolts shall be ASTM A307, galvanized.
- H. All structural members shall be galvanized.

TIMBER NOTES

- A. Timber species and grade:
1. See specifications.
  2. Beams and stringers: Douglas fir; no. 1.
  3. Posts and timbers: Douglas fir; no. 1.
  4. Light framing (2" to 4" thick, 2" to 4" wide), plates, Blocking, and studs (2" to 4" thick, 2" to 8" wide): Hemlock, hem, or Douglas fir; No. 2 for walls.
  5. Decking: Douglas fir; no. 2.
- B. Wood treatment: see specifications.

TIMBER NOTES (CON'T)

- C. The contractor shall verify all framing conditions with the floor framing plans. Special attention shall be required for coordination of architectural details and elevations with framing requirements.
- D. Unless specified otherwise, all posts shall be aligned from top of concrete footings or slab to roof framing system (or upper floor framing system).

MINIMUM NAILING SCHEDULE

Connection	Common nailing
Joist to top plate or girder, toe nail	3 - 8d
Bridging to joist, toe nail each end	2 - 8d
Sole plate to joist or blocking, face nail	16d at 16" o.c.
Stud to sole plate, toe nail	4 - 8d
Double top plate:	
Lower plate to stud, face nail	2 - 20d
Upper plate to lower plate, face nail	16d at 16" O.c.
Top plate, laps, and intersections, face nail	2 - 16d
Rafter (or truss) to plate, toe nail	3 - 8d
Built-up corner studs	16d at 36" o.c.
Continuous header to stud, toe nail	4 - 8d
Solid blocking to joist	4 - 8d

TIMBER CONNECTION SCHEDULE

Condition	Simpson connector
4 x 4 post to concrete foundation	CB
4 x 4 or 2 - 2 x 4 post to 4 x beam	CC
Joists framing into side beam	BCC
Joist on top of supporting beam	H10
Notes:	All metal connectors shall be galvanized. All specified Simpson connectors may be substituted with approved equal.

SPECIAL INSPECTION NOTES

- A. Special inspection provisions of section 1701 of the 1994 Uniform Building Code (as amended by the County of Hawaii) govern portions of the structural work as described in the construction documents. The Special Inspector shall be hired by the State.
- B. The following structural work for this project require special inspections:
1. Concrete
  2. Reinforcing Steel
  3. Welding
  4. Structural Masonry
  5. Timber Connectors
- C. The minimum responsibilities of the Special Inspector shall be as outlined in the "Special Inspection Recommended Standard of Practice", 2nd edition, published by the Structural Engineers Association of Hawaii.
- D. It shall be the responsibility of the General Contractor to notify the Special Inspector of all items requiring special inspection a minimum of 48 hours in advance.
- E. Special inspections do not relieve the General Contractor of his responsibilities to complete the project in accordance with the construction documents and to be responsible for safety on the jobsite.

SPECIAL INSPECTION NOTES (CON'T)

- F. The Special Inspector shall submit a final report to the Building Department, Architect, Structural Engineer and State stating whether the work requiring special inspection was, to the best of his/her knowledge, in conformance with the construction documents and the applicable workmanship provisions of the building code.
- G. The Special Inspector shall be certified as a special inspector by the Building Department or the International Conference of Building Officials (ICBO).

BUILDING DEPARTMENT NOTIFICATION

- A. The Hawaii County Building Department requires the following inspections:
1. preconstruction
  2. foundations
  3. framing
  4. final
- B. It shall be the responsibility of the General Contractor to notify the Building Department 48 hours prior to each inspection.

DESIGN DATA

- A. Superimposed live loads:
1. Roof . . . . . 20 psf
  2. Office . . . . . 50 psf
  3. Storage. . . . . 125 psf
  4. Stairs . . . . . 100 psf
- B. Additional loads:
1. Ceiling. . . . . 5 psf
  2. Roofing and insulation . . . . . 5 psf
- C. Lateral loads:
1. Seismic: Uniform building code - 1994 edition; zone 3; Importance factor = 1.0
  2. Wind: Uniform building code - 1994 edition 80 mph Design wind velocity; exposure "D"; importance Factor = 1.0
- D. Foundations:
1. Allowable soil bearing pressure = 2,500 psf (assumed)
  2. Passive pressure = 200 pcf (assumed)
  3. Coefficient of friction = 0.35 (assumed)

ORIGINAL PLAN	DATE
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LEE T. TAKUSHI

LICENSED PROFESSIONAL ENGINEER

NO. 4767-S

HAWAII USA

SIGNATURE

4/30/04

EXP. DATE OF THE LICENSE

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STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

STRUCTURAL GENERAL NOTES

WAIMEA BASEYARD IMPROVEMENTS

WAIMEA BASEYARD

PROJ. No. HWY-H-05-00M

Scale: As Noted

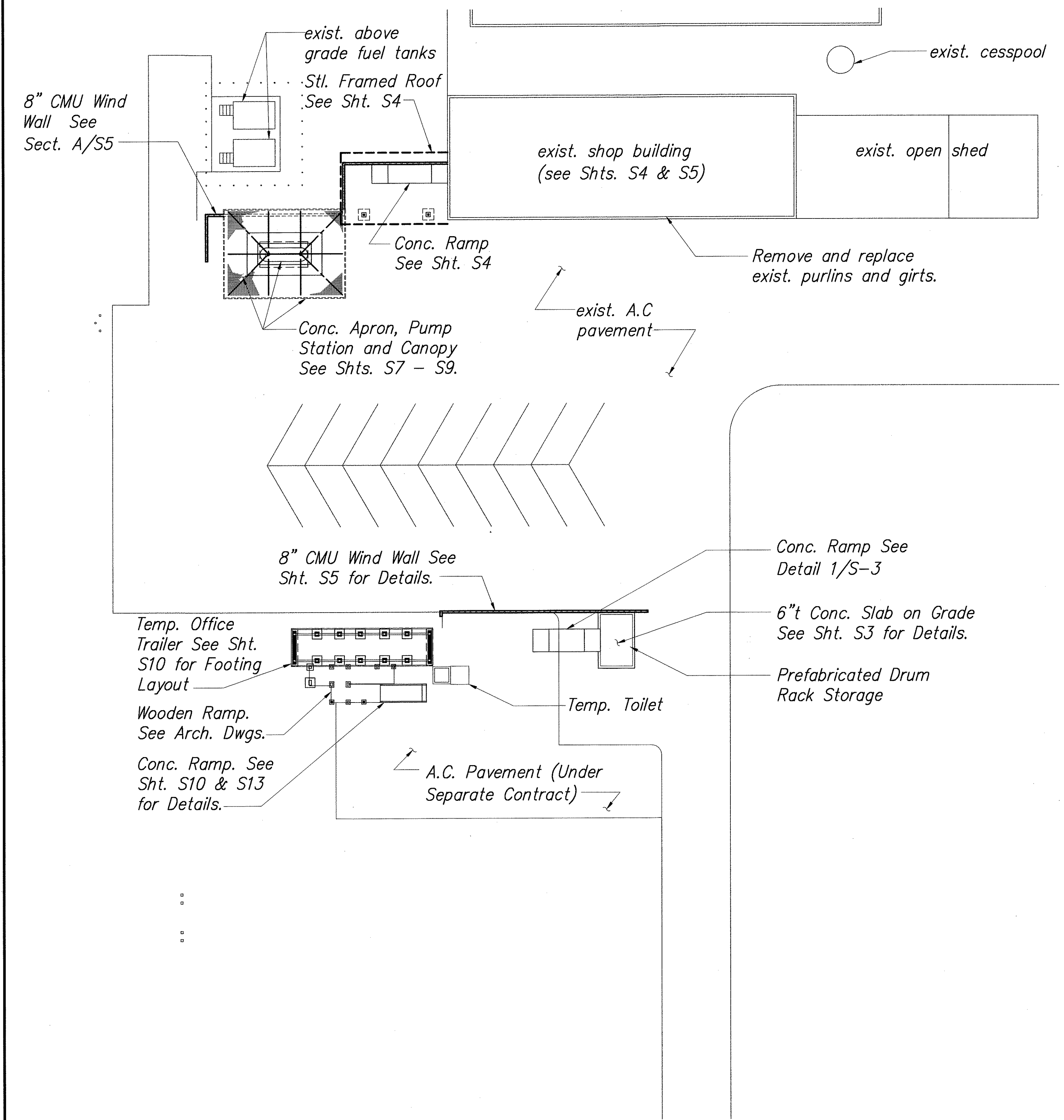
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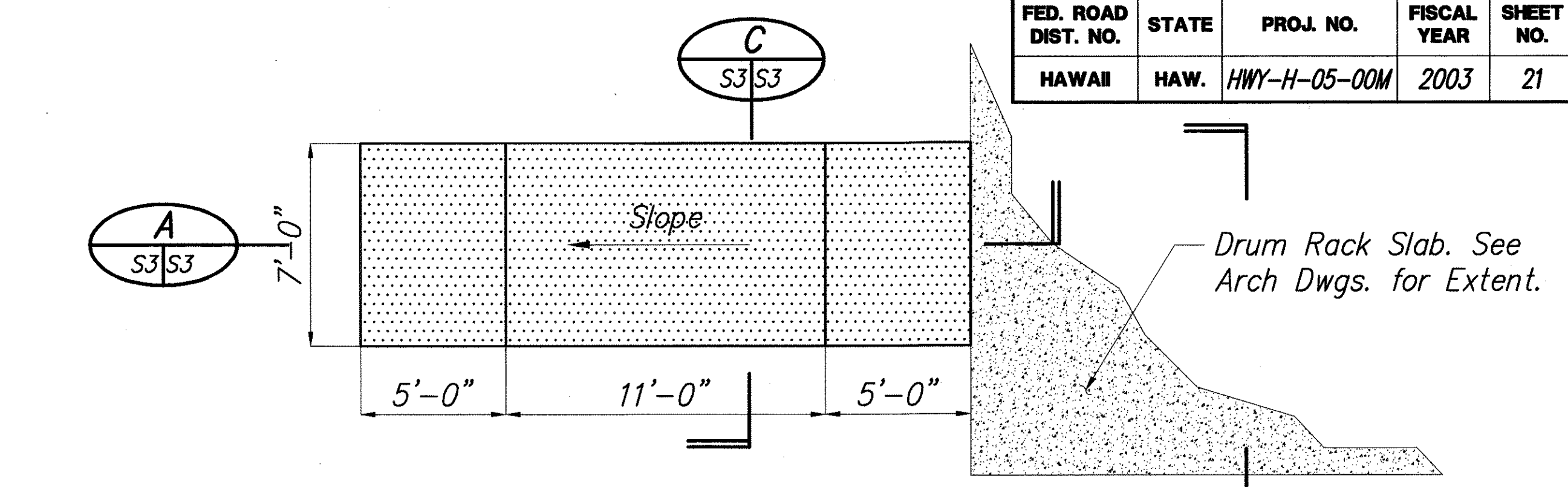
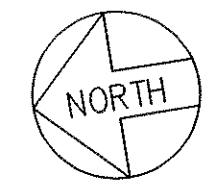
SHEET No. 2 OF 15 SHEETS



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-05-00M	2003	21	40

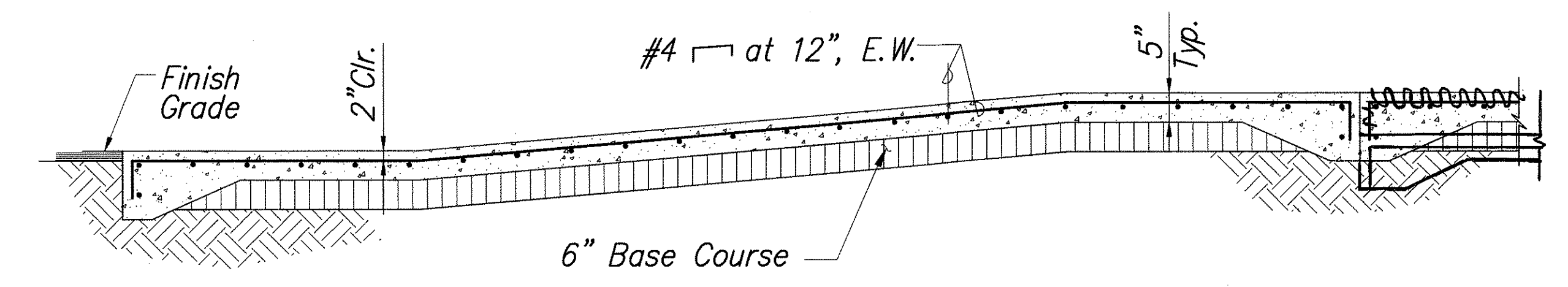


**STRUCTURAL SITE PLAN**  
SCALE: 1"= 20'-0"



**PARTIAL DRUM RACK FLOOR PLAN**

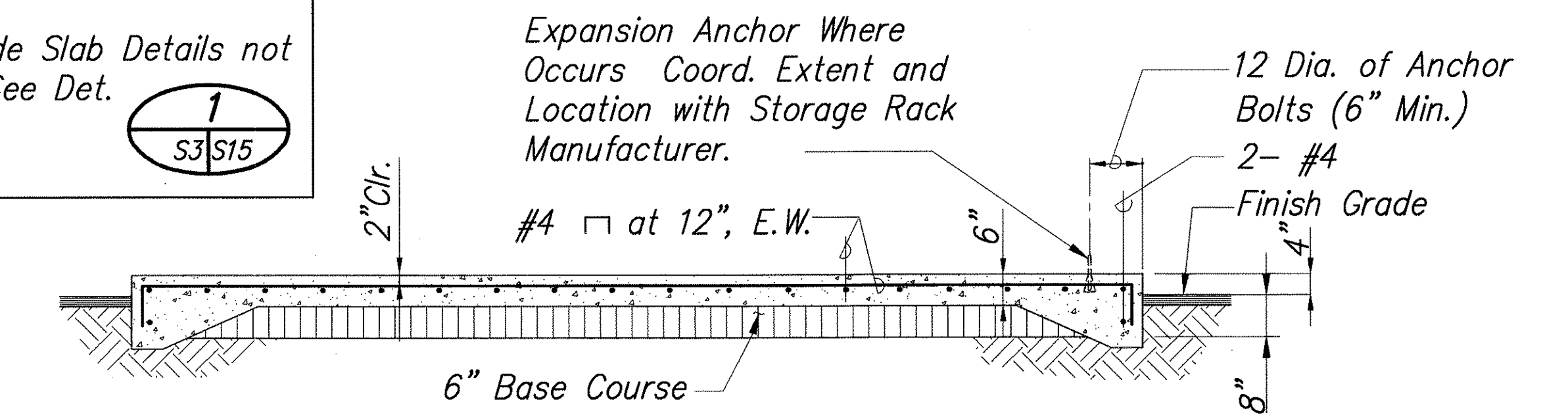
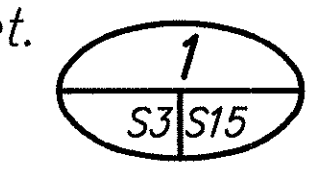
SCALE: 1/4"=1'-0"



**LONGITUDINAL SECTION THRU RAMP**

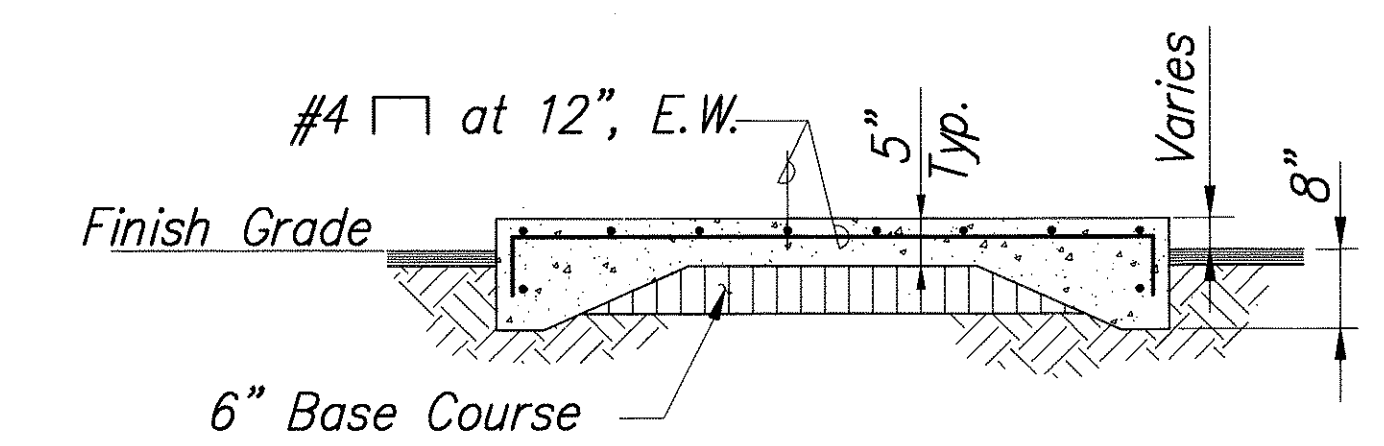
SCALE: 1/2"=1'-0"

**Note:**  
For Grade Slab Details not Shown See Det.



**SECTION THRU DRUM RACK SLAB**

SCALE: 1/2"=1'-0"



**SECTION THRU RAMP**

SCALE: 1/2"=1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

LEE T. TAKUSHI  
LICENSED PROFESSIONAL ENGINEER  
NO. 4767-S  
HAWAII USA

Signature: [Signature]  
EXP. DATE OF THE LICENSE: 4/30/04

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**STRUCTURAL SITE PLAN AND SECTIONS**

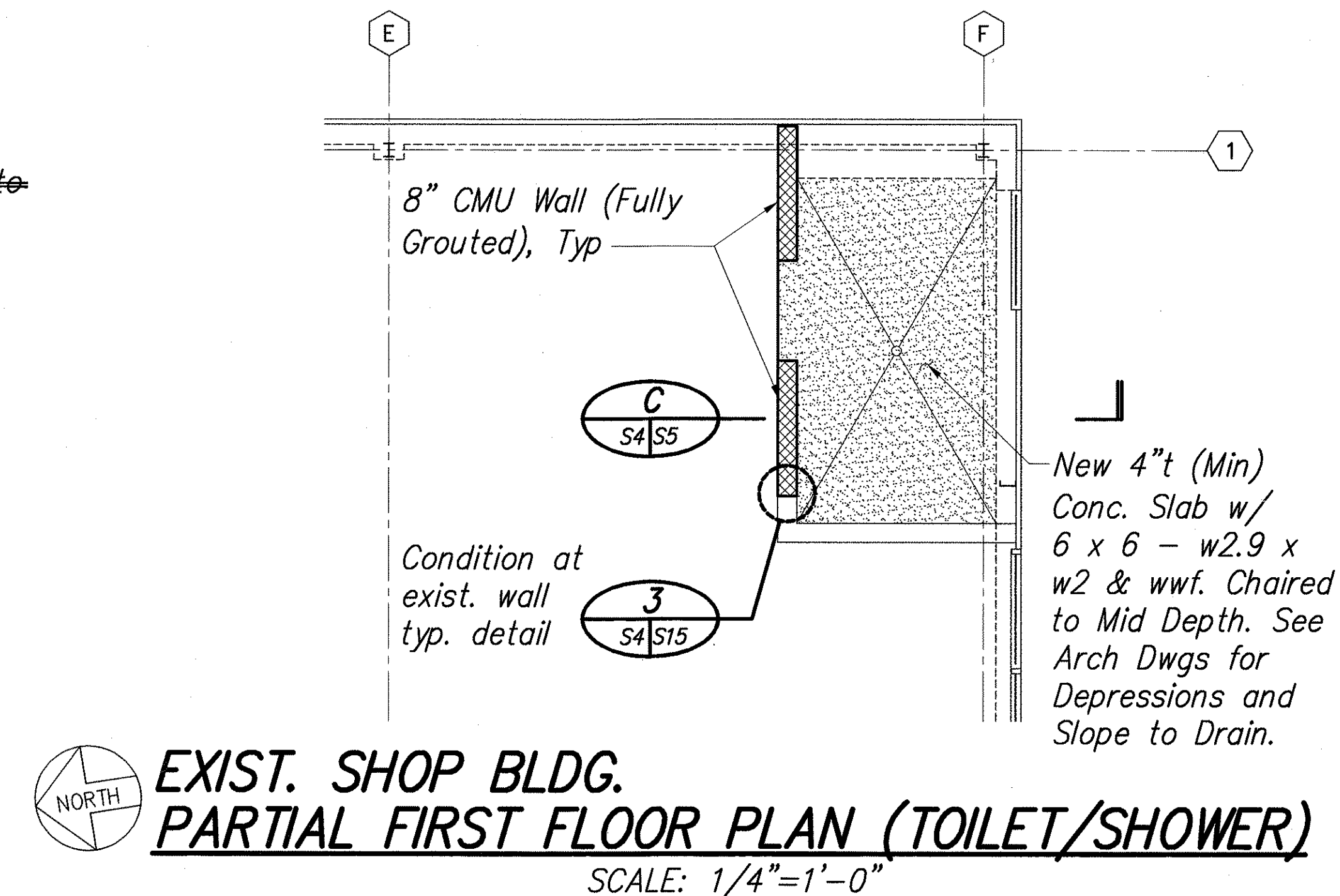
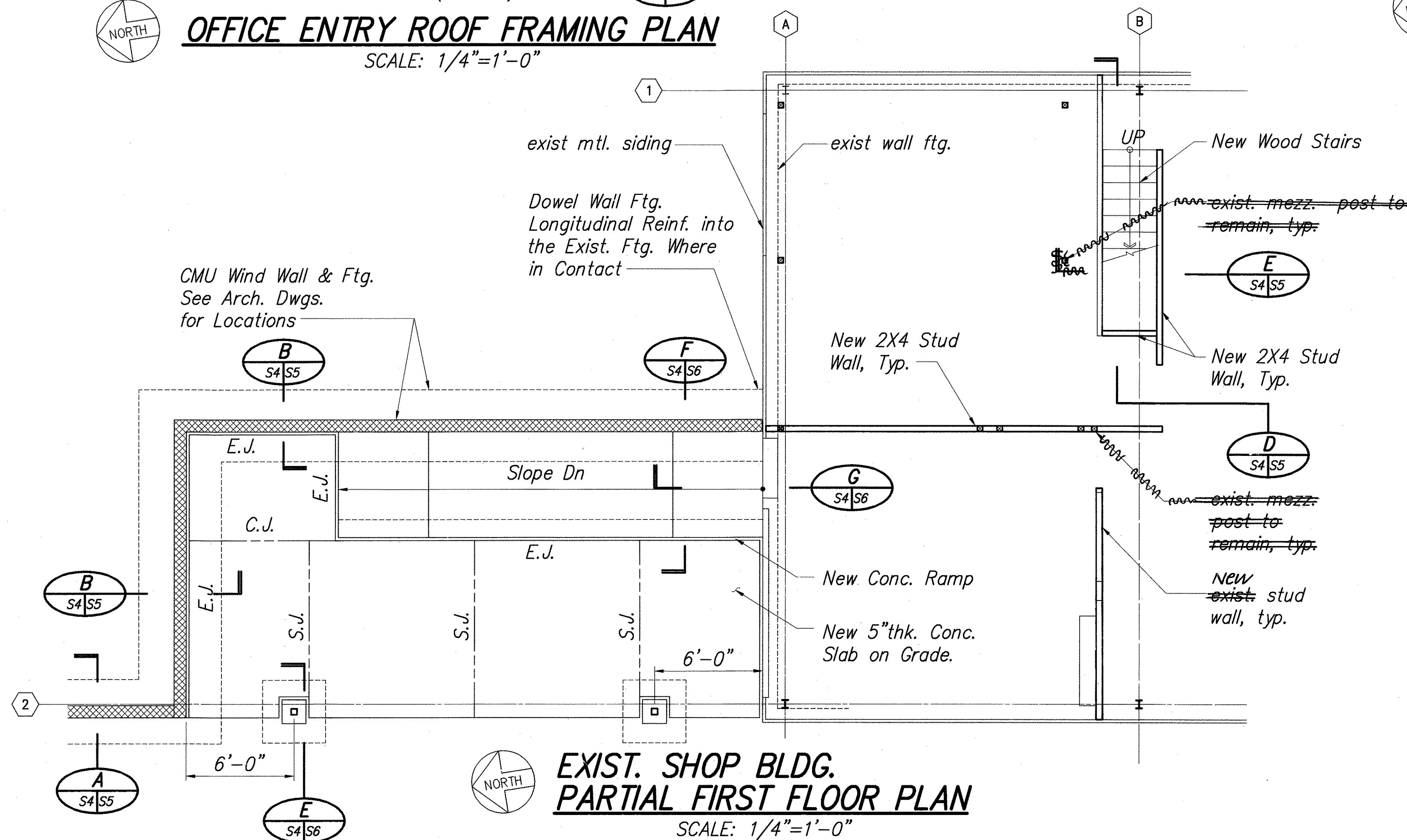
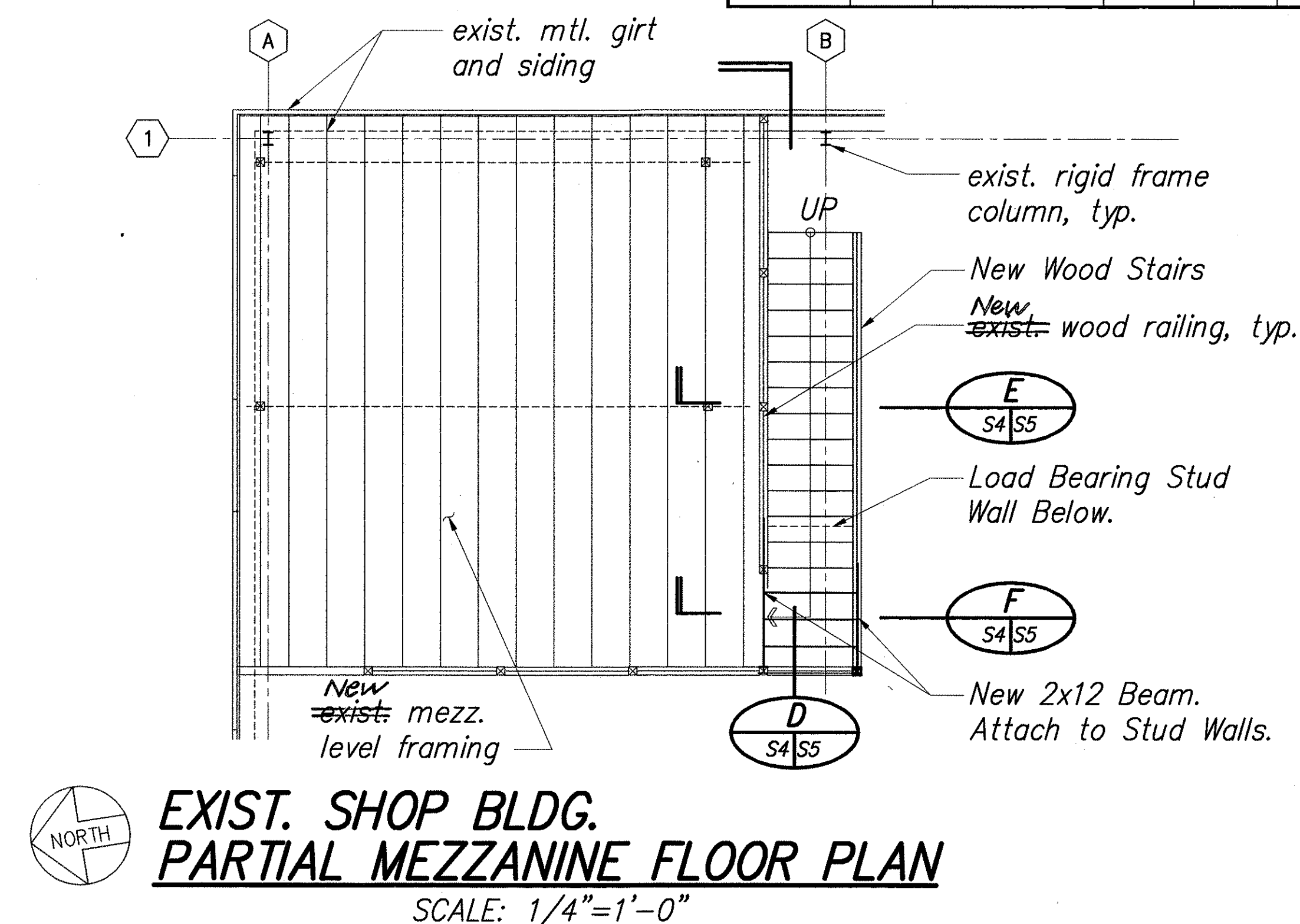
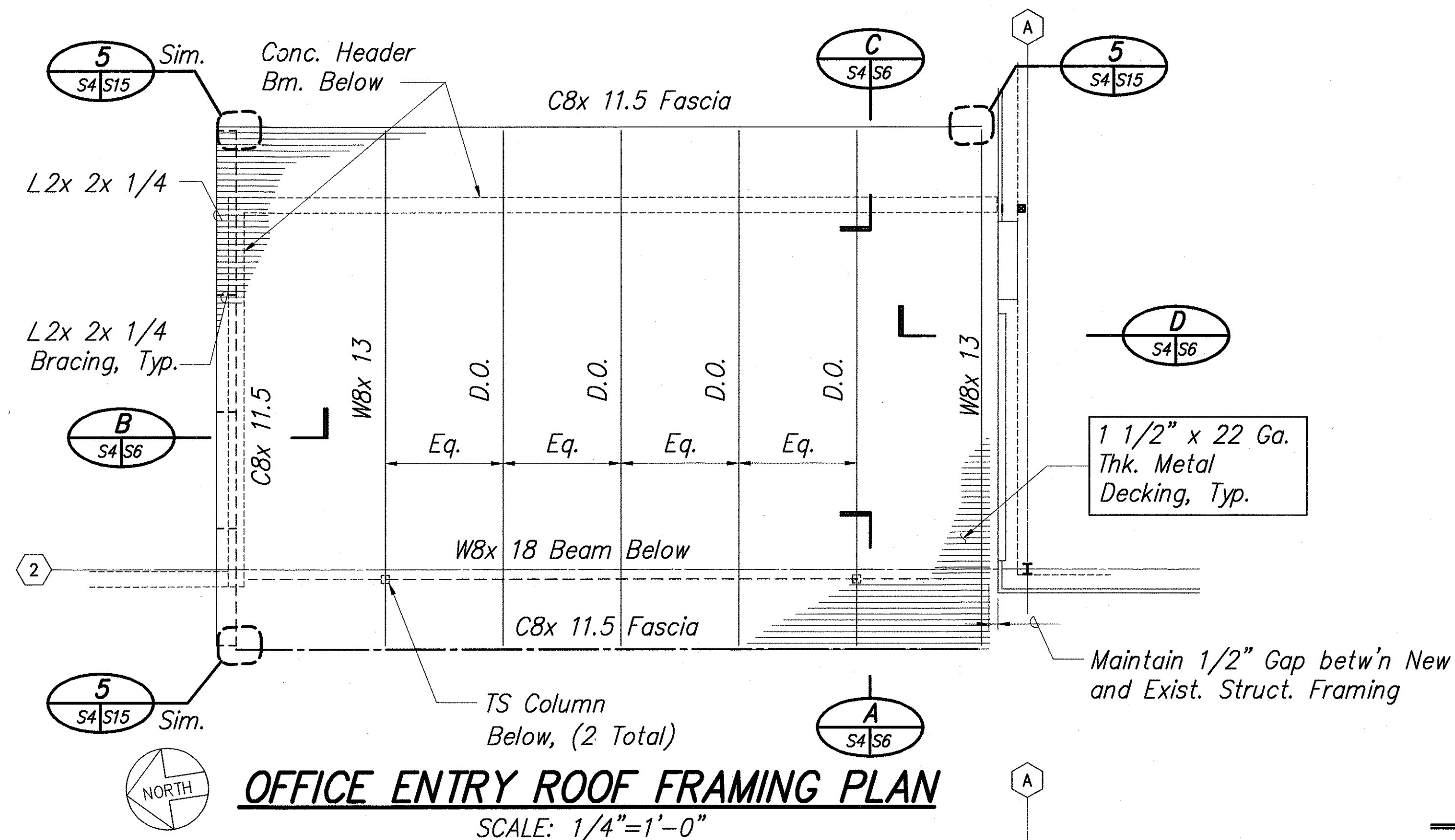
WAIMEA BASEYARD IMPROVEMENTS  
WAIMEA BASEYARD

PROJ. No. HWY-H-05-00M

Scale: As Noted Date: February, 2003

S-3

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-05-00M	2003	22	40



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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PARTIAL FIRST AND MEZZANINE FLOOR PLAN**

WAIMEA BASEYARD IMPROVEMENTS  
WAIMEA BASEYARD

PROJ. No. HWY-H-05-00M

Scale: As Noted Date: February, 2003

SHEET No. 4 OF 15 SHEETS

LEE T. TAKUSHI  
LICENSED PROFESSIONAL ENGINEER  
NO. 4767-S  
HAWAII USA

4/30/04  
EXP. DATE OF THE LICENSE

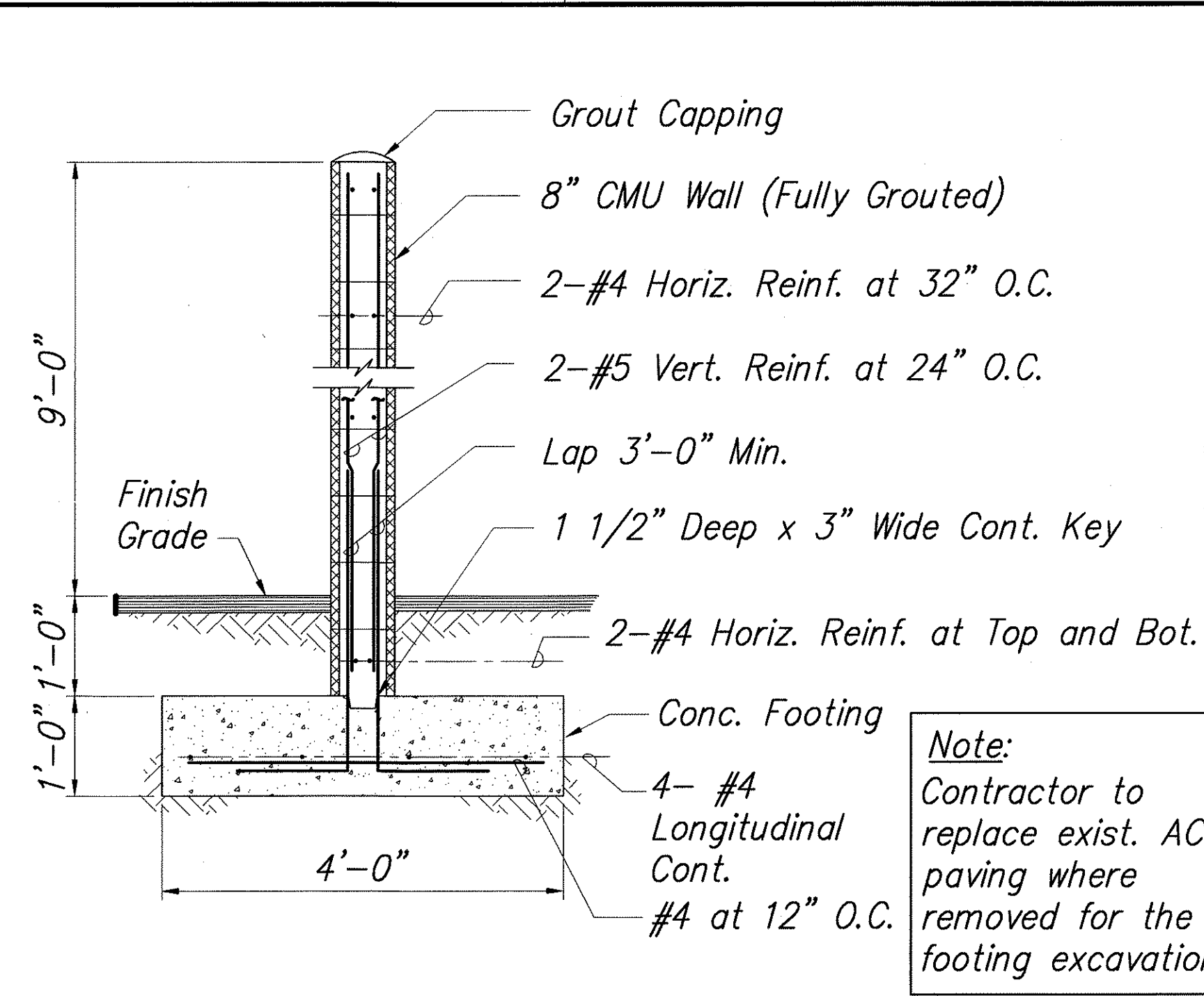
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S-4

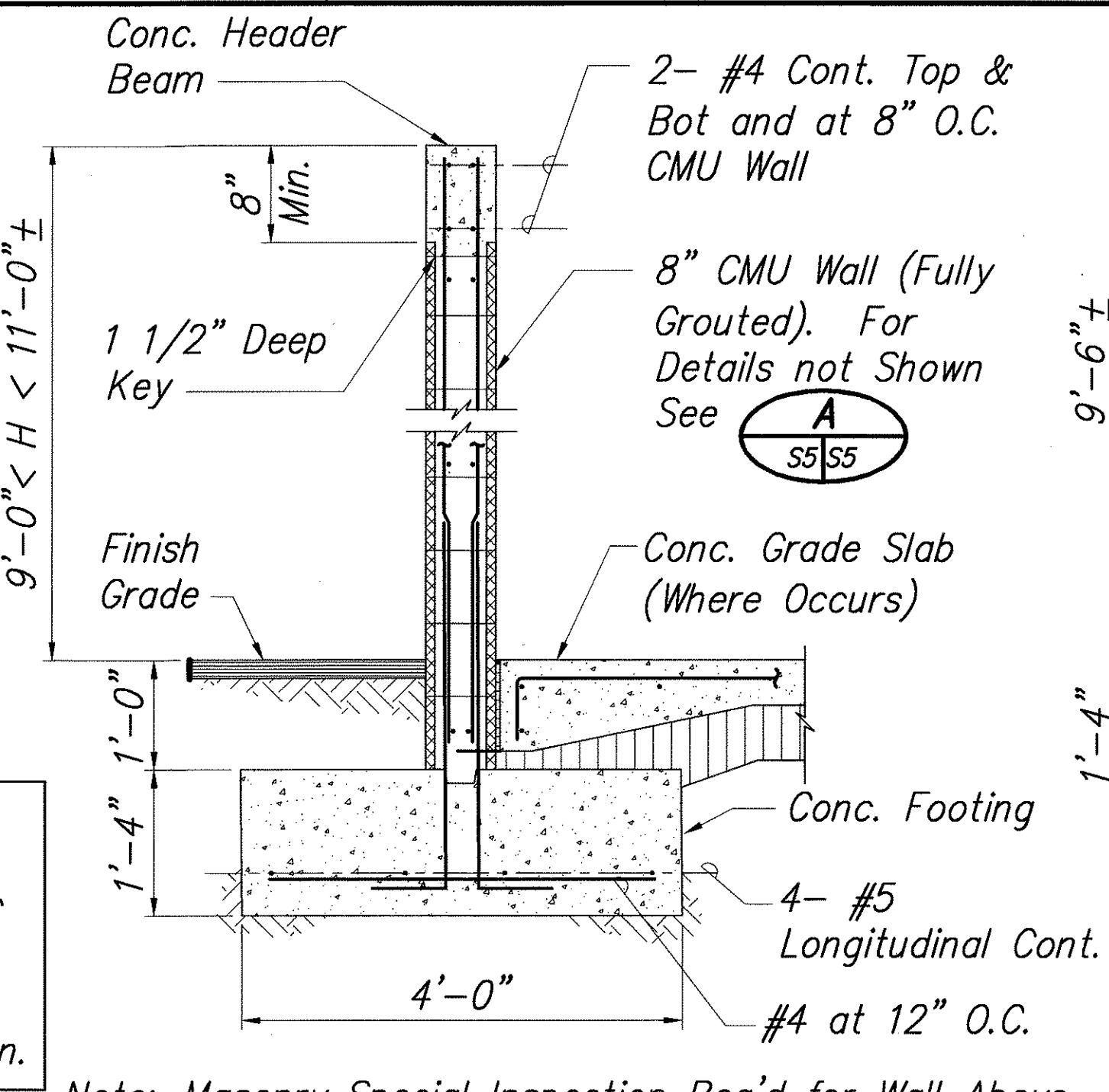
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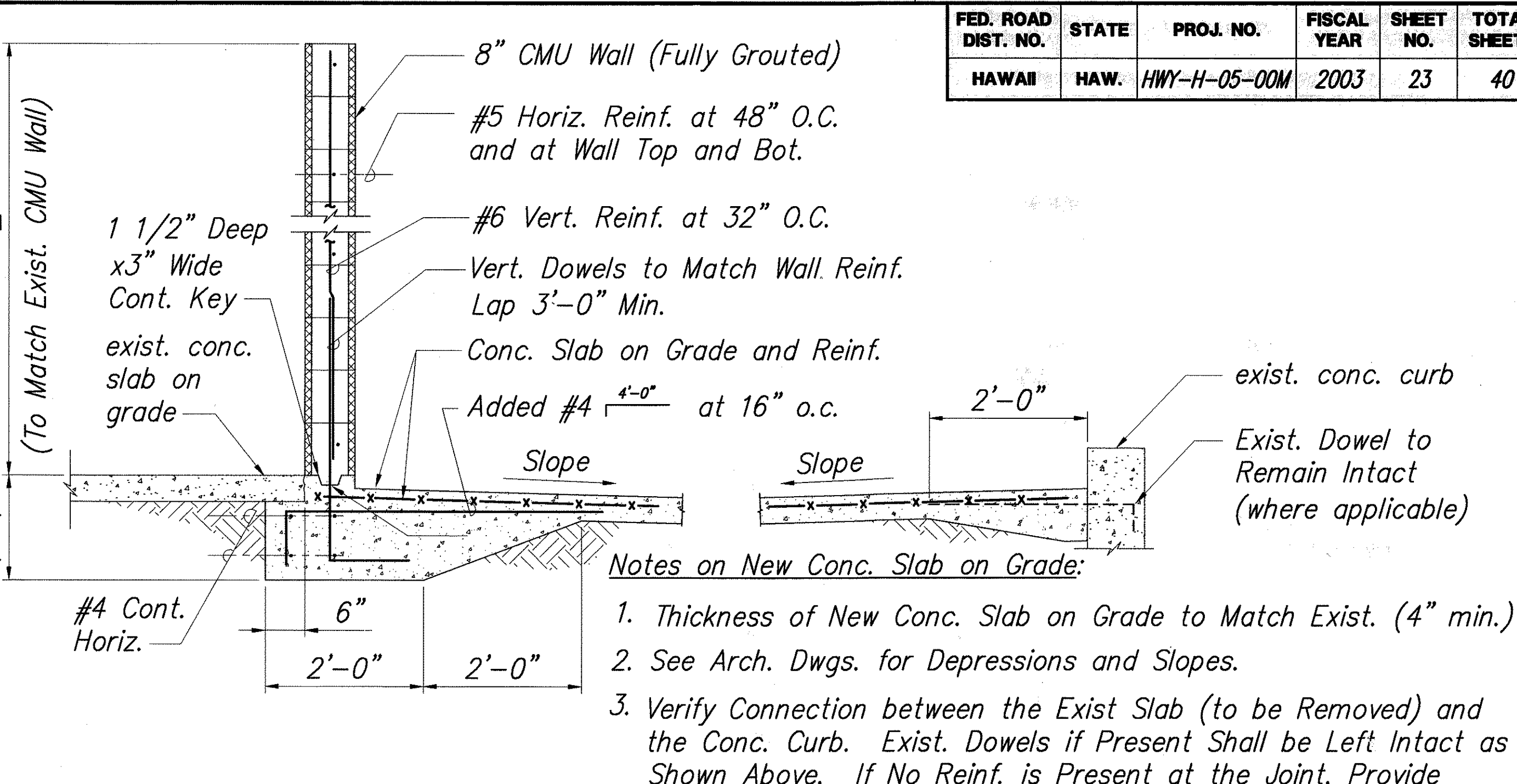
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-05-00M	2003	23	40



**CMU WIND WALL SECTION**  
SCALE: 3/4"=1'-0"  
S4 S5

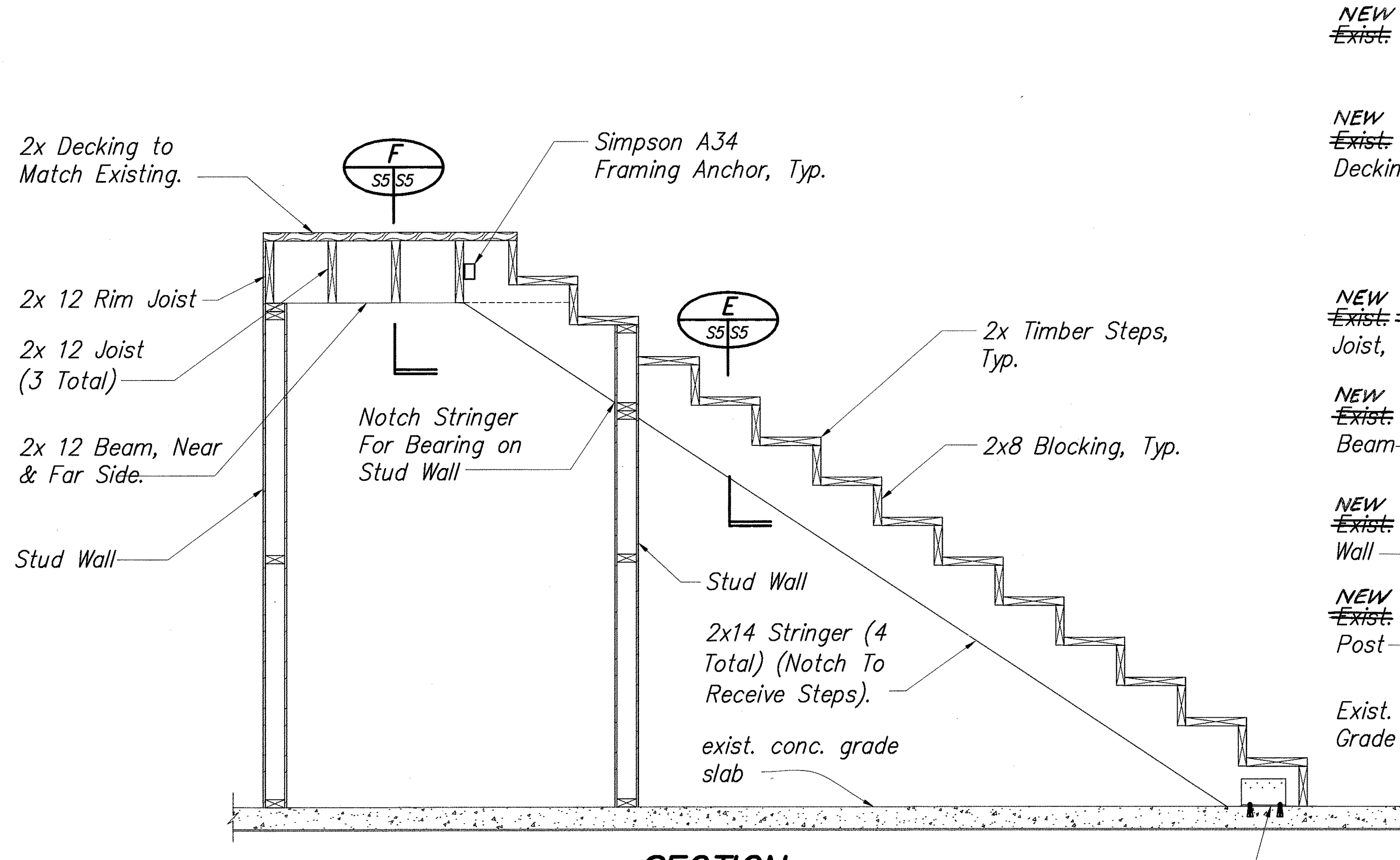


**CMU WIND WALL SECTION AT ENTRY**  
SCALE: 3/4"=1'-0"  
S4 S5

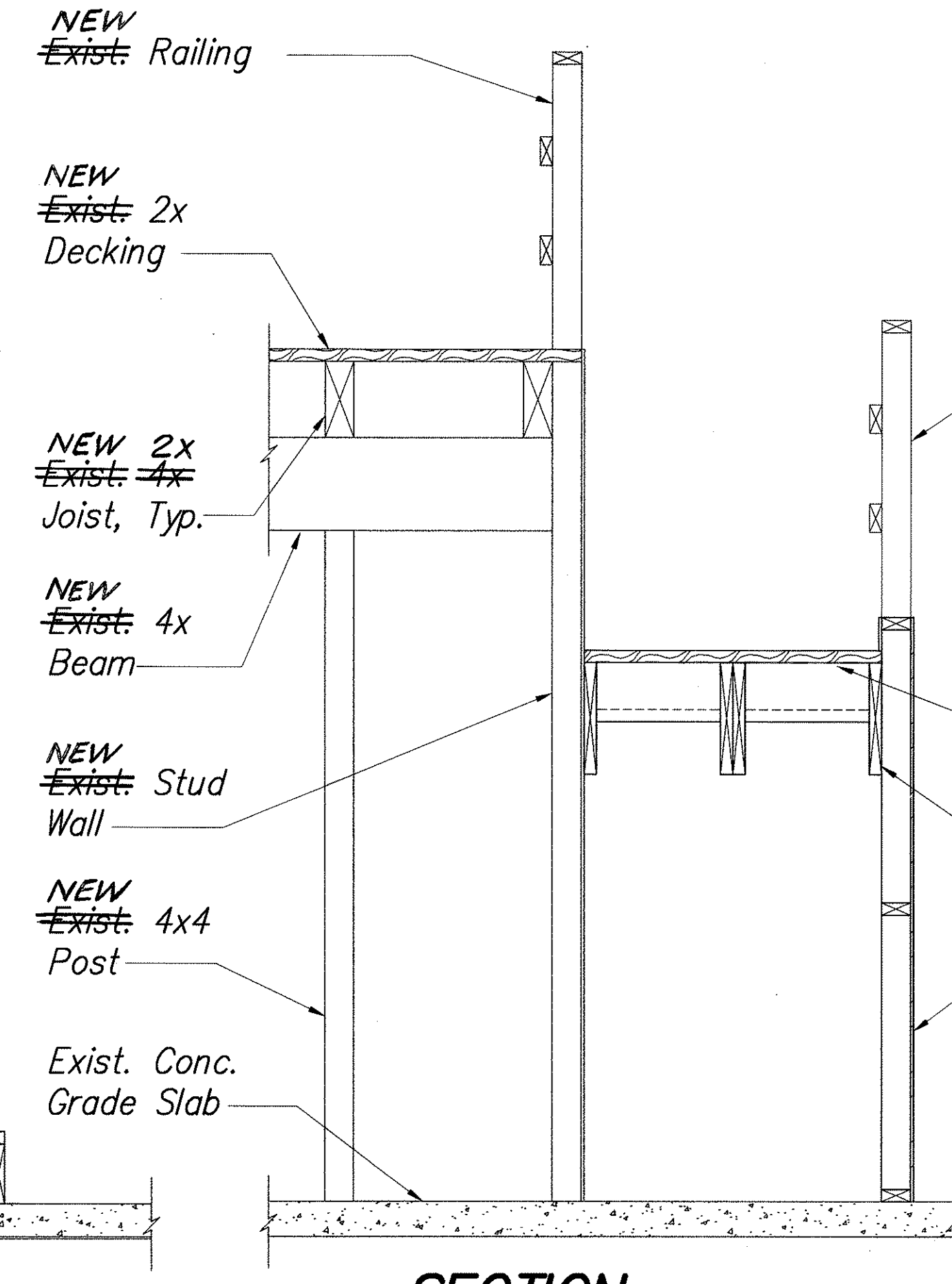


**INTERIOR CMU WALL SECTION**  
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S4 S5

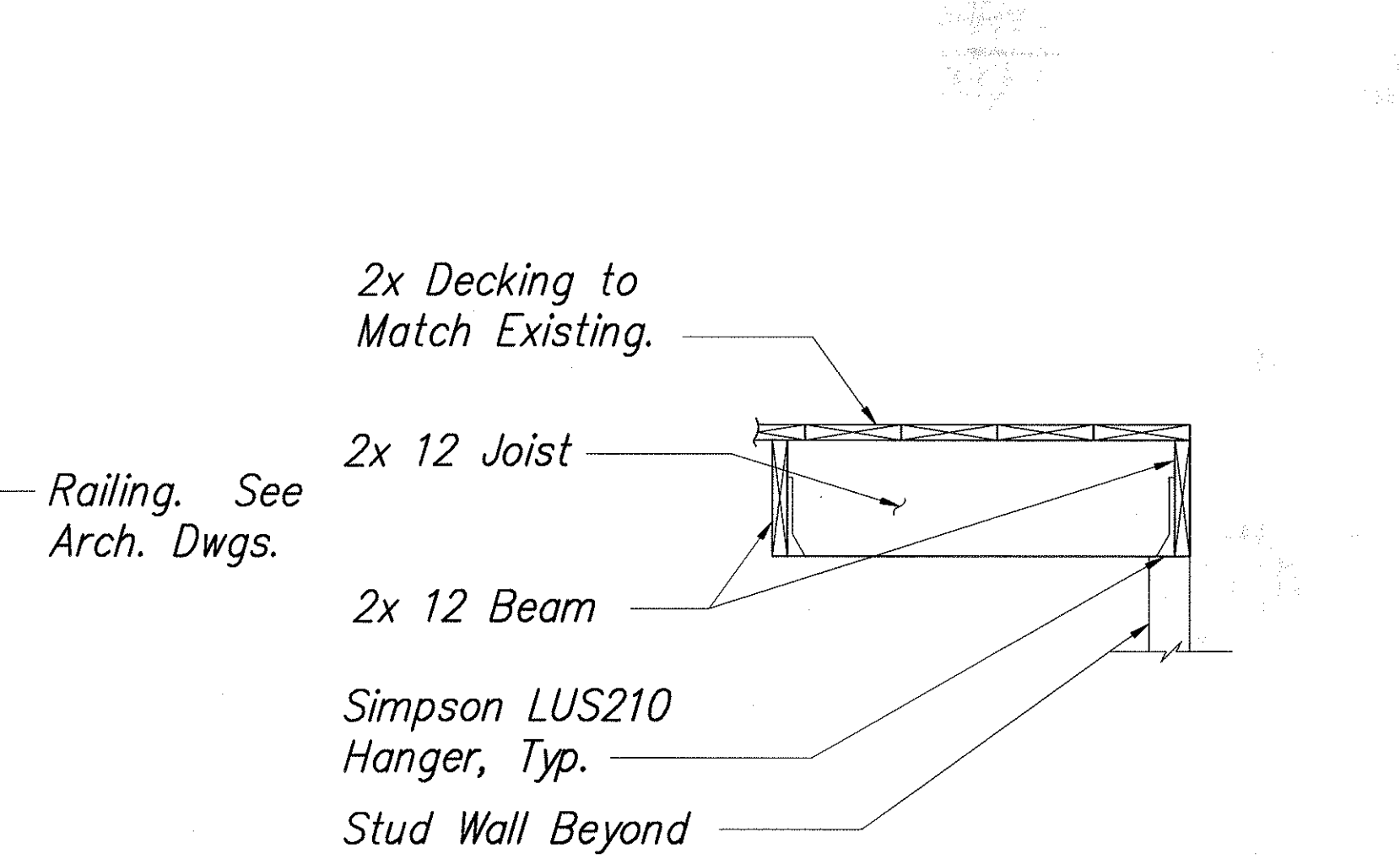
- Notes on New Conc. Slab on Grade:**
1. Thickness of New Conc. Slab on Grade to Match Exist. (4" min.)
  2. See Arch. Dwg. for Depressions and Slopes.
  3. Verify Connection between the Exist Slab (to be Removed) and the Conc. Curb. Exist. Dowels if Present Shall be Left Intact as Shown Above. If No Reinf. is Present at the Joint, Provide Expansion Joint Filler and Sealant. See Typical Detail



**SECTION D**  
SCALE: 3/4"=1'-0"  
S4 S5

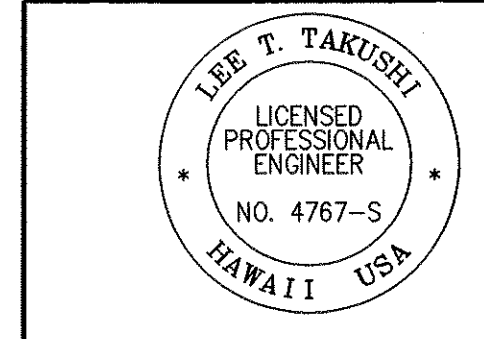


**SECTION E**  
SCALE: 3/4"=1'-0"  
S4 S5



**SECTION F**  
SCALE: 3/4"=1'-0"  
S4 S5

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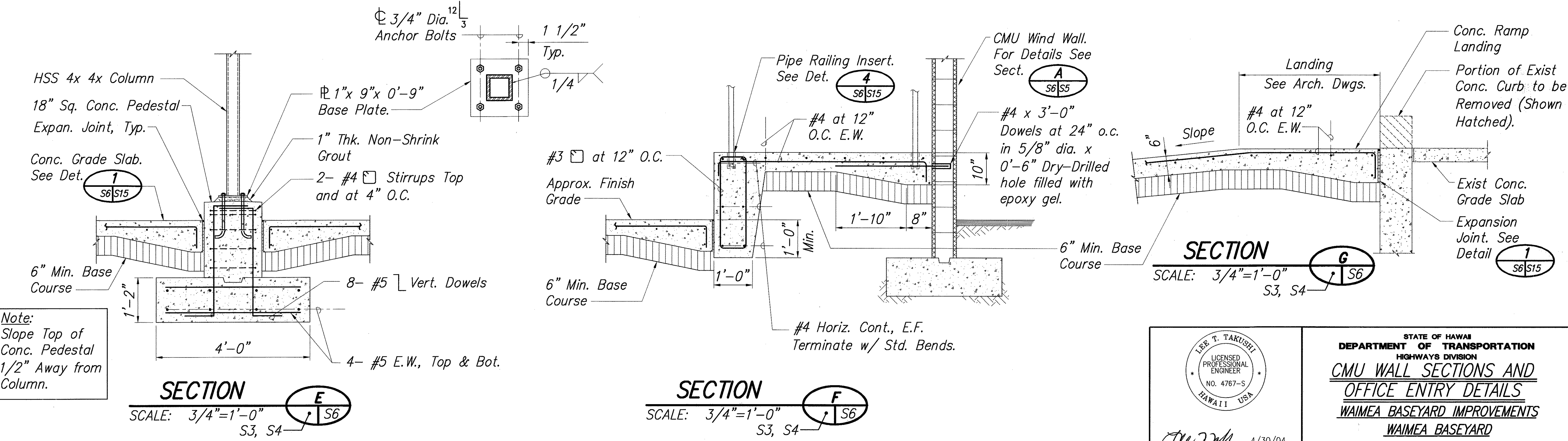
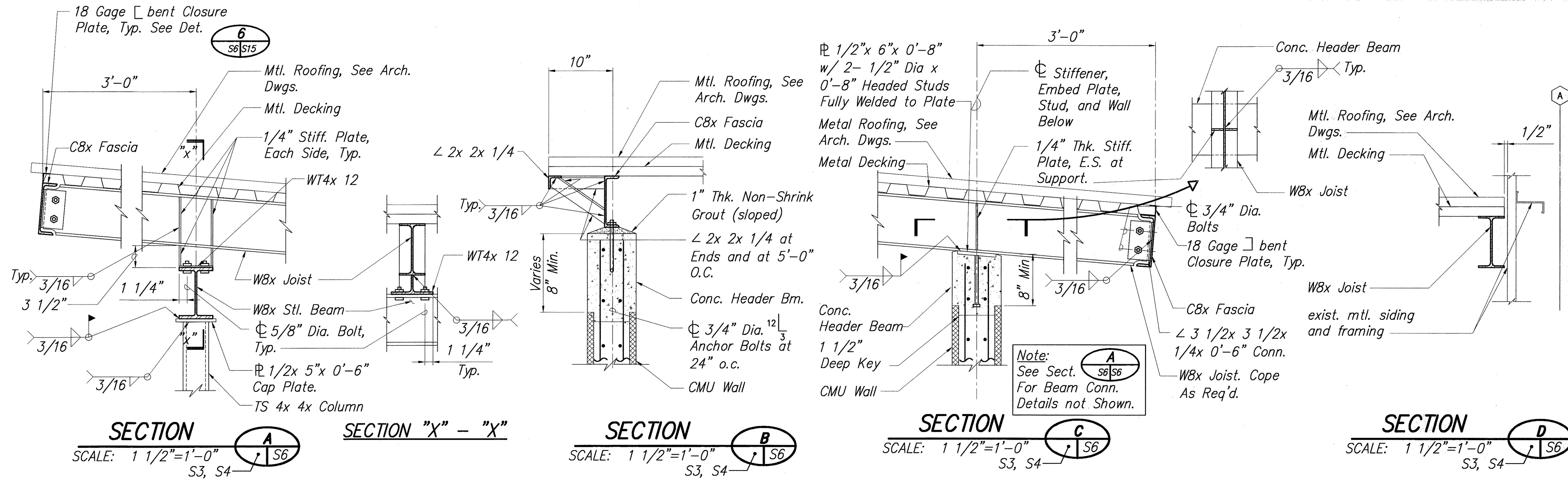


STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**CONCRETE AND WOOD**  
**STAIR DETAILS**  
WAIMEA BASEYARD IMPROVEMENTS  
WAIMEA BASEYARD  
PROJ. No. HWY-H-05-00M  
Scale: As Noted  
Date: February, 2003  
SHEET No. 5 OF 15 SHEETS

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S-5

"AS-BUILT"

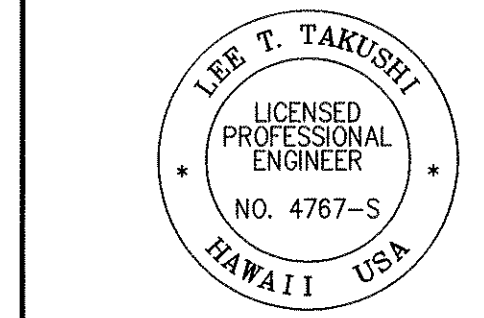
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	HWY-H-05-00M	2003	24	40



Note:  
Slope Top of  
Conc. Pedestal  
1/2" Away from  
Column.

ORIGINAL PLAN	DATE
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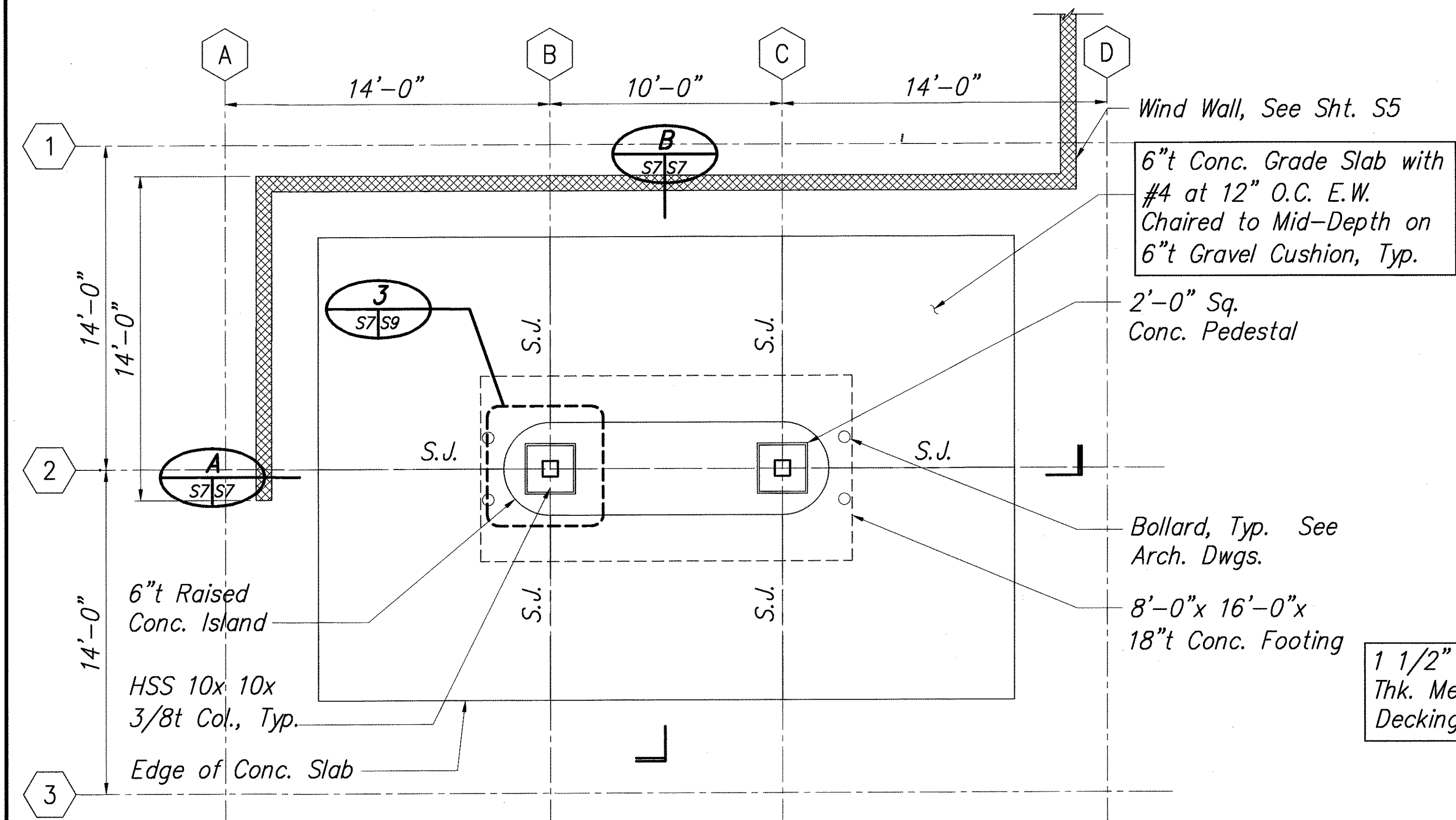


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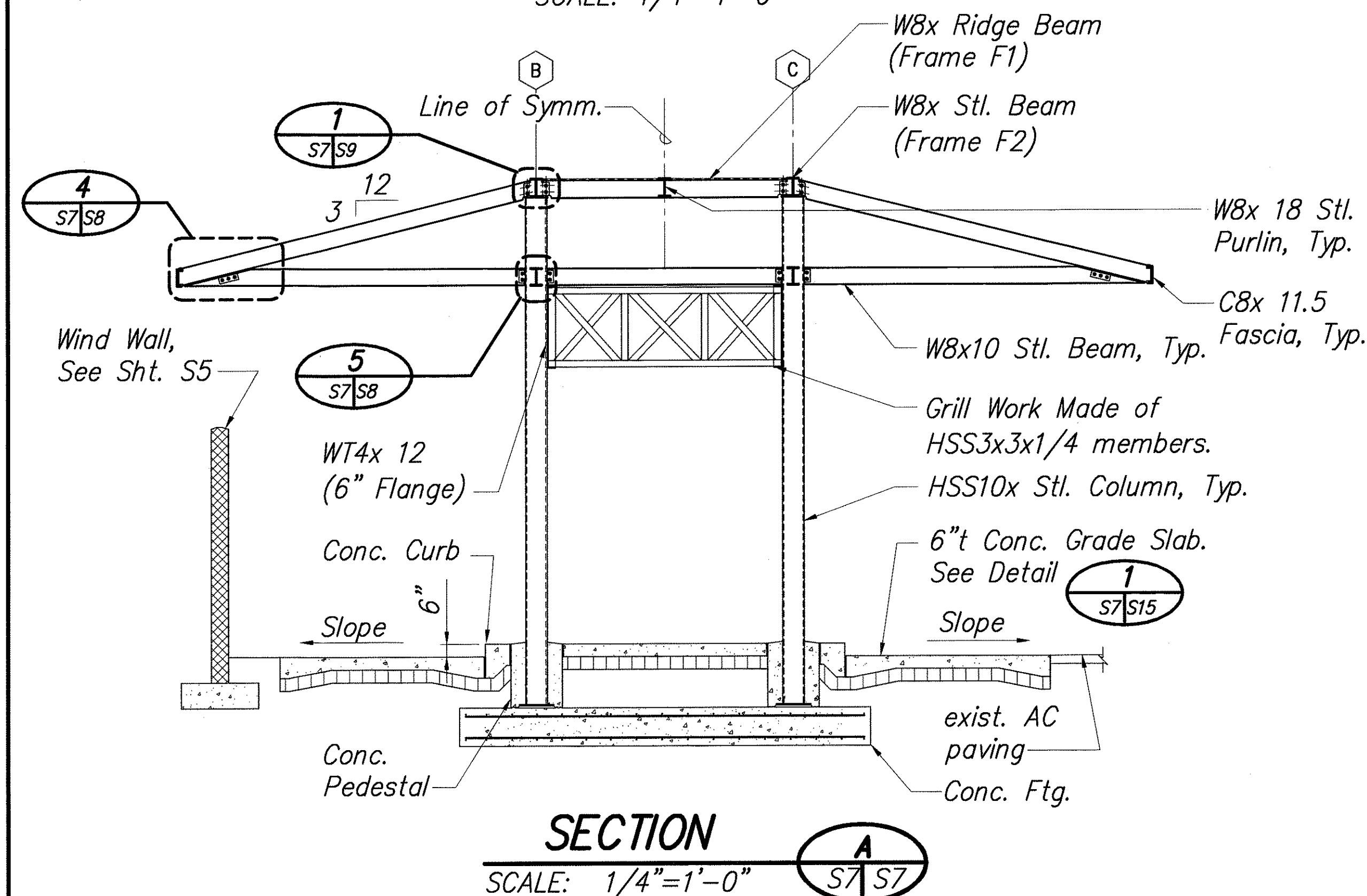
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**CMU WALL SECTIONS AND  
OFFICE ENTRY DETAILS**  
WAIMEA BASEYARD IMPROVEMENTS  
WAIMEA BASEYARD  
PROJ. No. HWY-H-05-00M



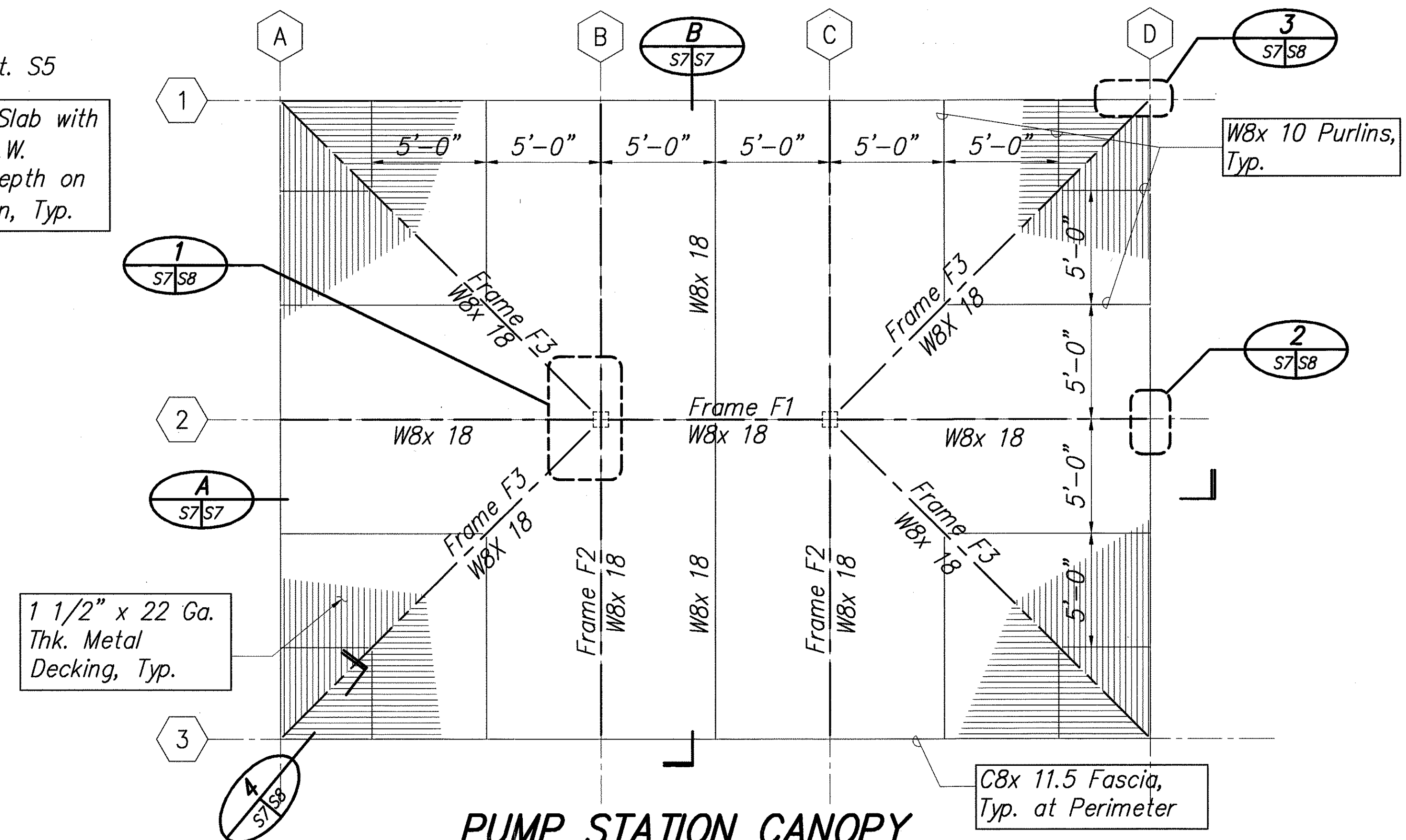
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HAWAII	HAW.	HWY-H-05-00M	2003	25	40



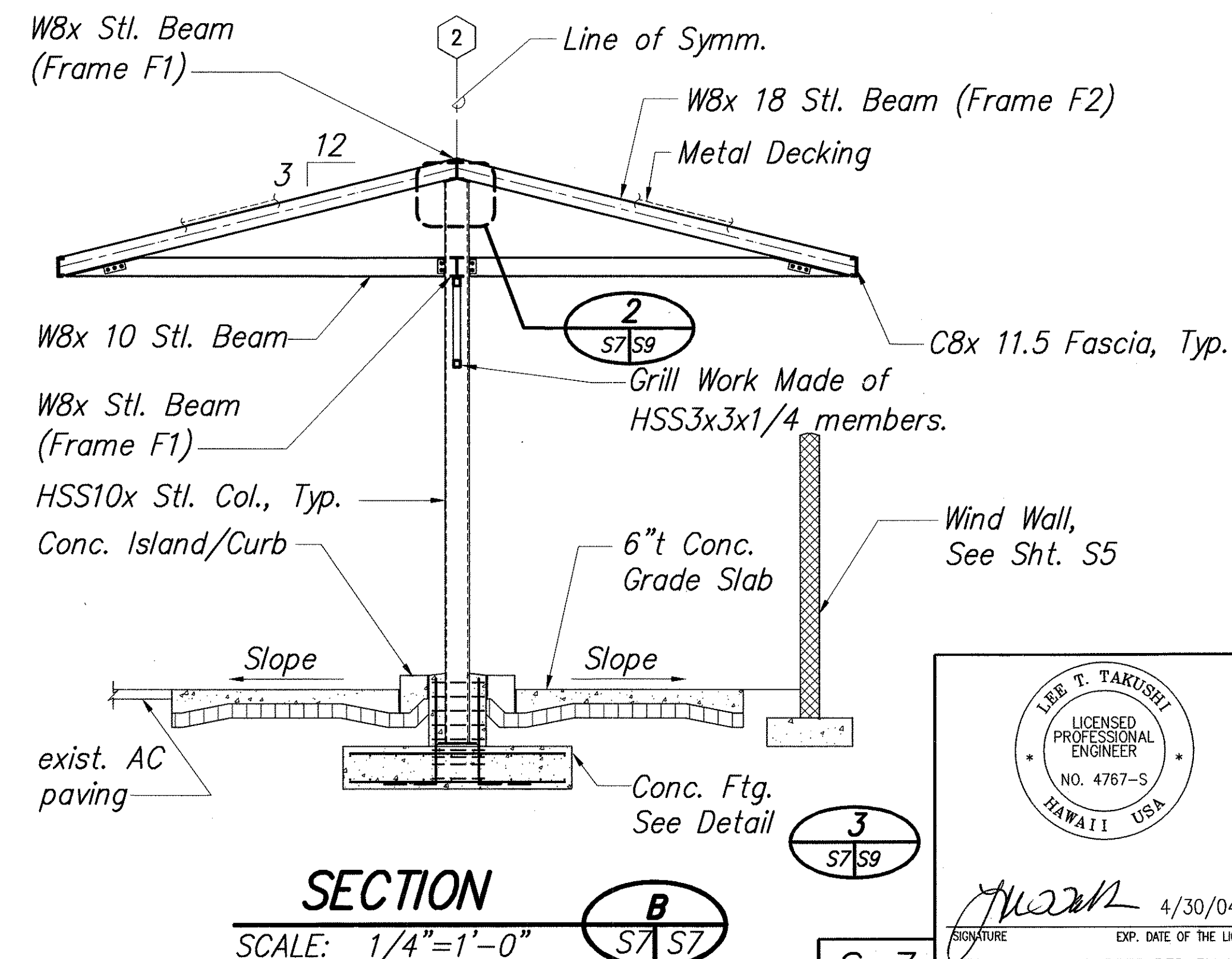
**PUMP STATION CANOPY  
FOUNDATION PLAN**  
SCALE: 1/4"=1'-0"



**SECTION A**  
SCALE: 1/4"=1'-0"



**PUMP STATION CANOPY  
ROOF FRAMING PLAN**  
SCALE: 1/4"=1'-0"



**SECTION B**  
SCALE: 1/4"=1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
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LEE T. TAKUSHI  
LICENSED PROFESSIONAL ENGINEER  
NO. 4767-S  
HAWAII, USA  
4/30/04  
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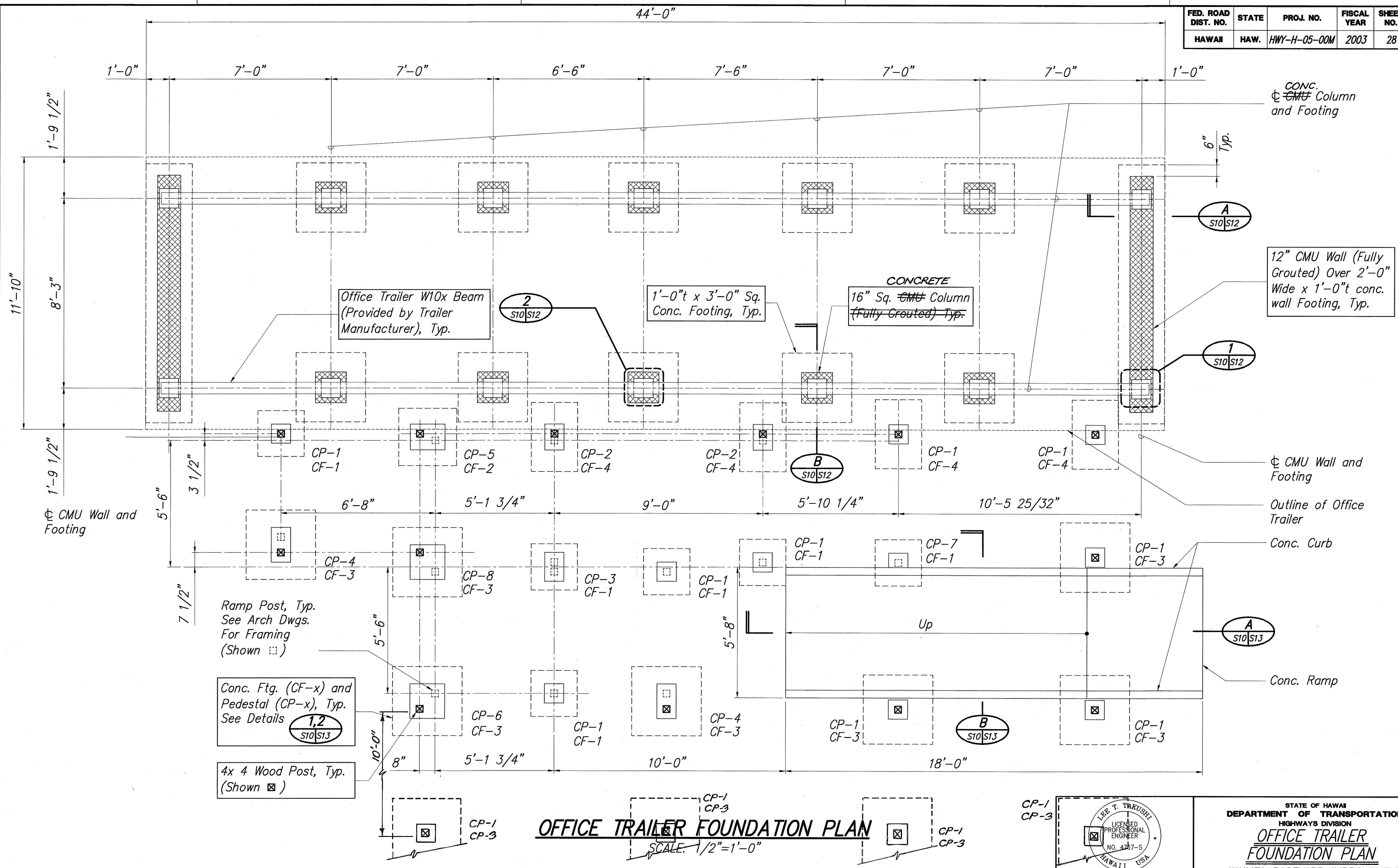
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**PUMP STATION  
PLANS AND SECTIONS**  
WAIMEA BASEYARD IMPROVEMENTS  
WAIMEA BASEYARD  
PROJ. No. HWY-H-05-00M  
Scale: As Noted Date: February, 2003  
SHEET No. 7 OF 15 SHEETS







FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-05-00M	2003	28	40



ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
No.	

I:\1997\9703405P\DRAWINGS\PLAN\S09.DWG 06/28/00 08:17 rb

LEE T. TAKUSHI  
LICENSED PROFESSIONAL ENGINEER  
NO. 4257-S  
HAWAII, USA

4/30/04  
EXP. DATE OF THE LICENSE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**OFFICE TRAILER FOUNDATION PLAN**  
WAIMEA BASEYARD IMPROVEMENTS  
WAIMEA BASEYARD  
PROJ. No. HWY-H-05-00M

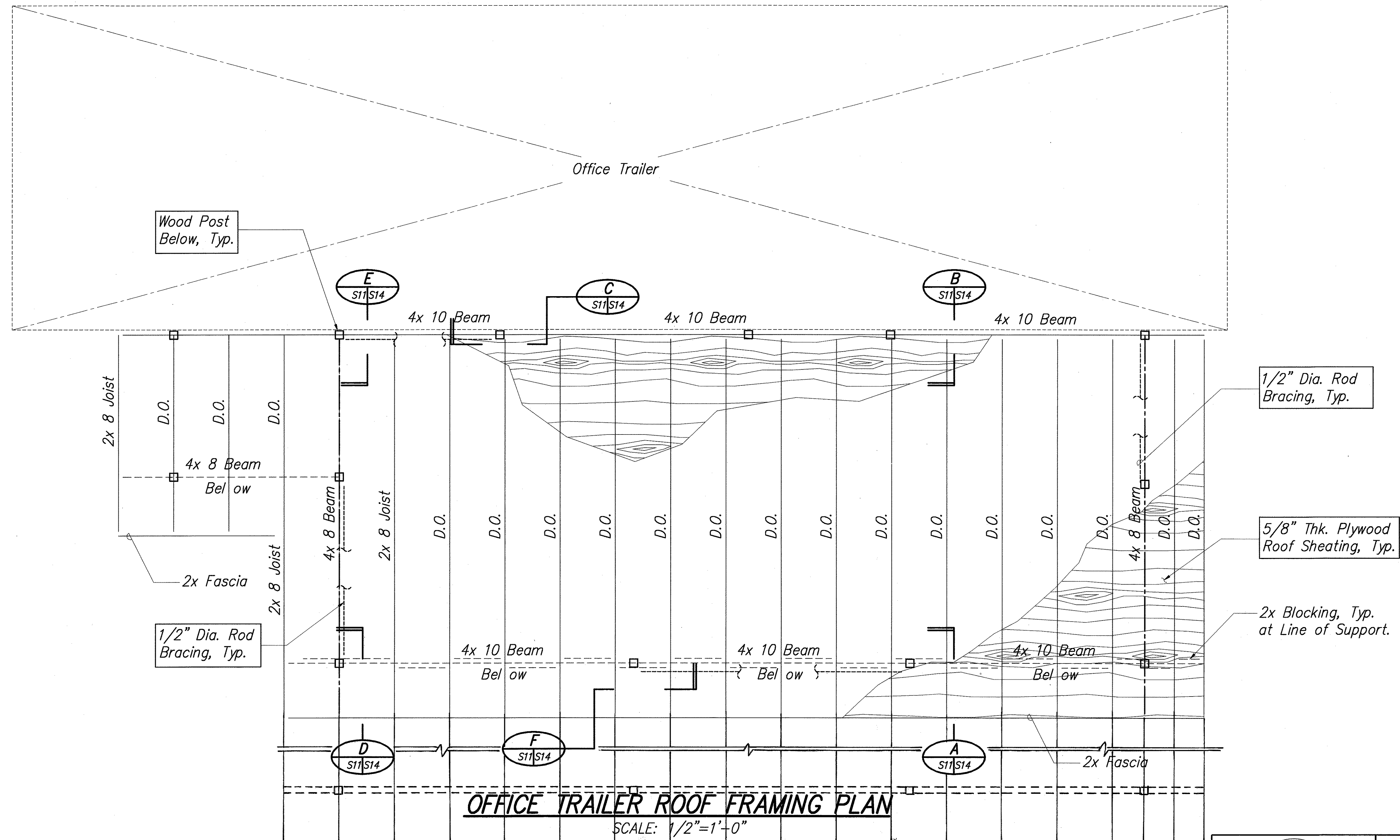
Scale: As Noted Date: February, 2003

SHEET No. 10 OF 15 SHEETS

"AS-BUILT"

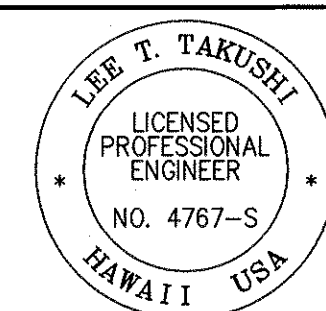


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-05-00M	2003	29	40



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

I:\1997\9703\05P\CDRAWINGS\PLAN\509.DWG 05/28/00 09:17 rb



Signature: *[Signature]* 4/30/04  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**OFFICE TRAILER ROOF PLAN**  
WAIMEA BASEYARD IMPROVEMENTS  
WAIMEA BASEYARD  
PROJ. No. HWY-H-05-00M

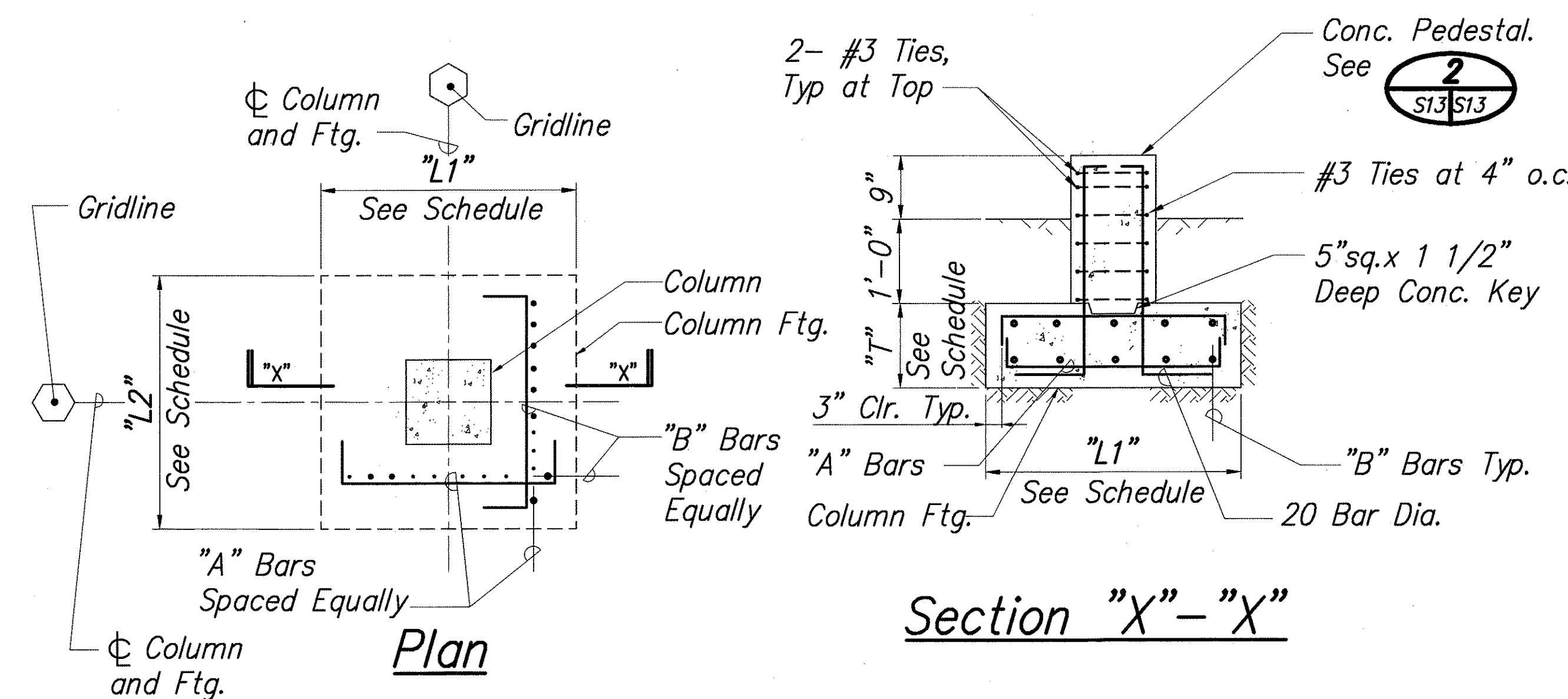
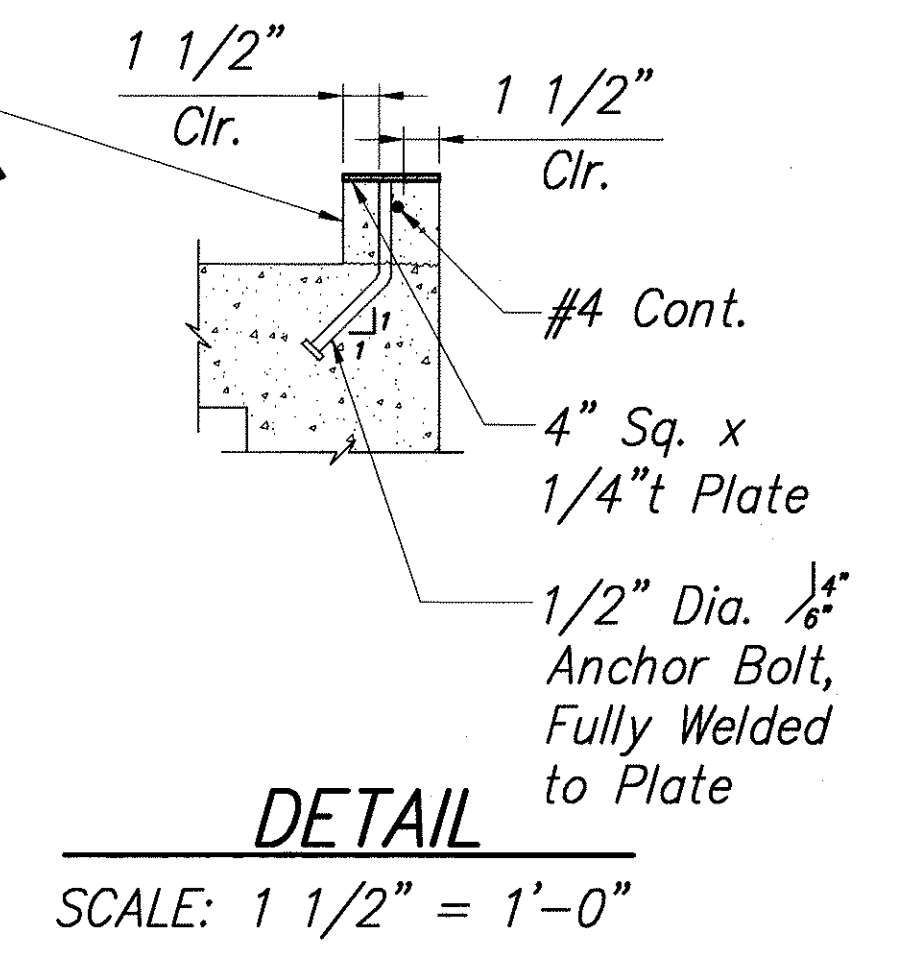
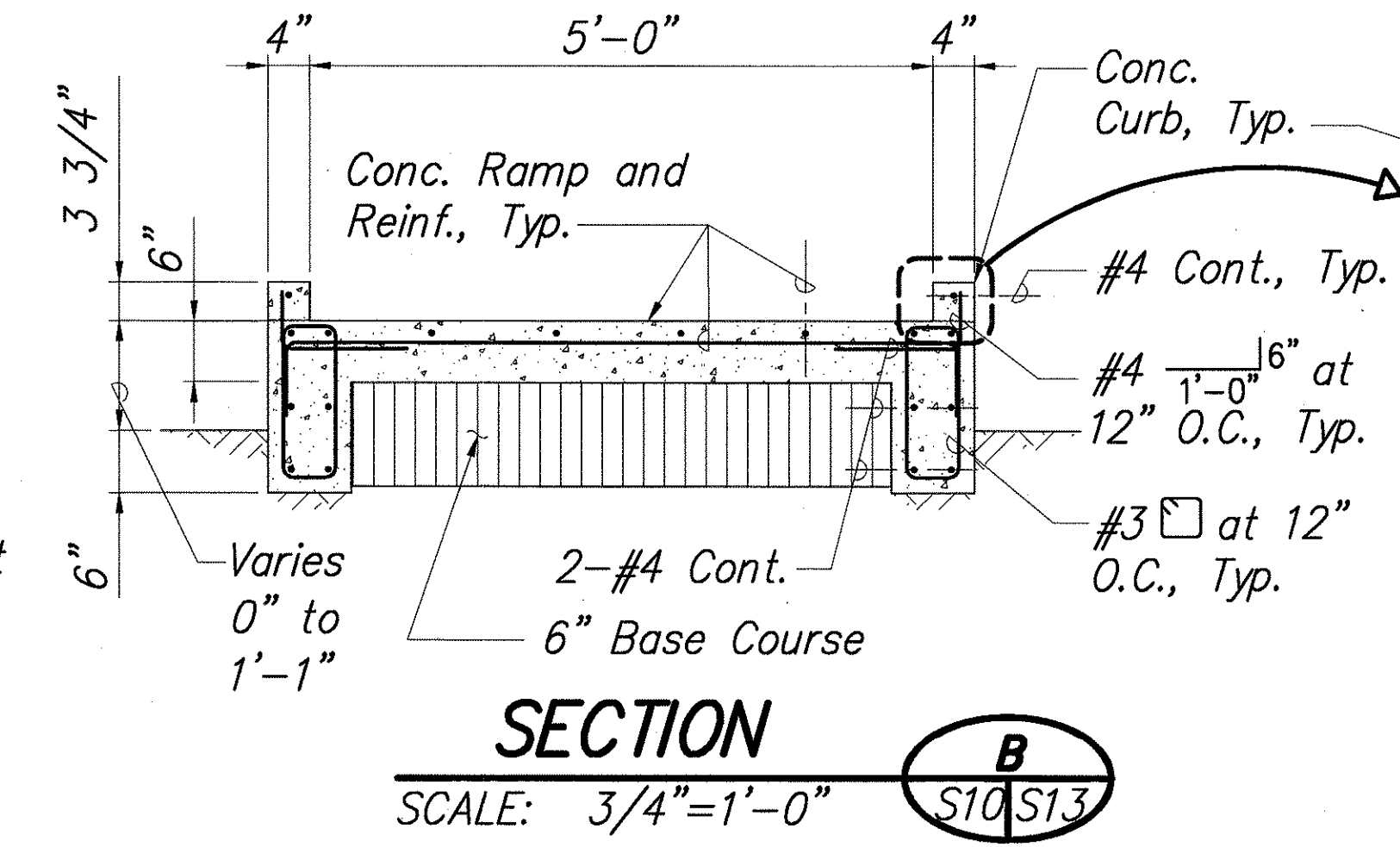
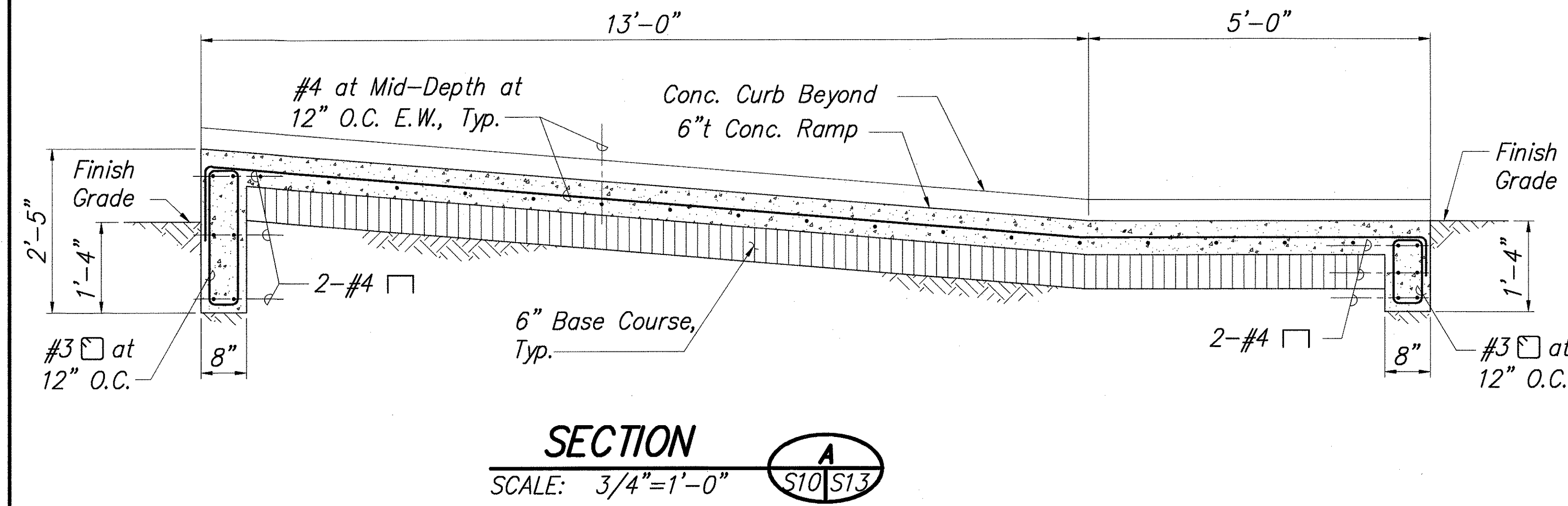
Scale: As Noted Date: February, 2003

SHEET No. 11 OF 15 SHEETS

"AS-BUILT"

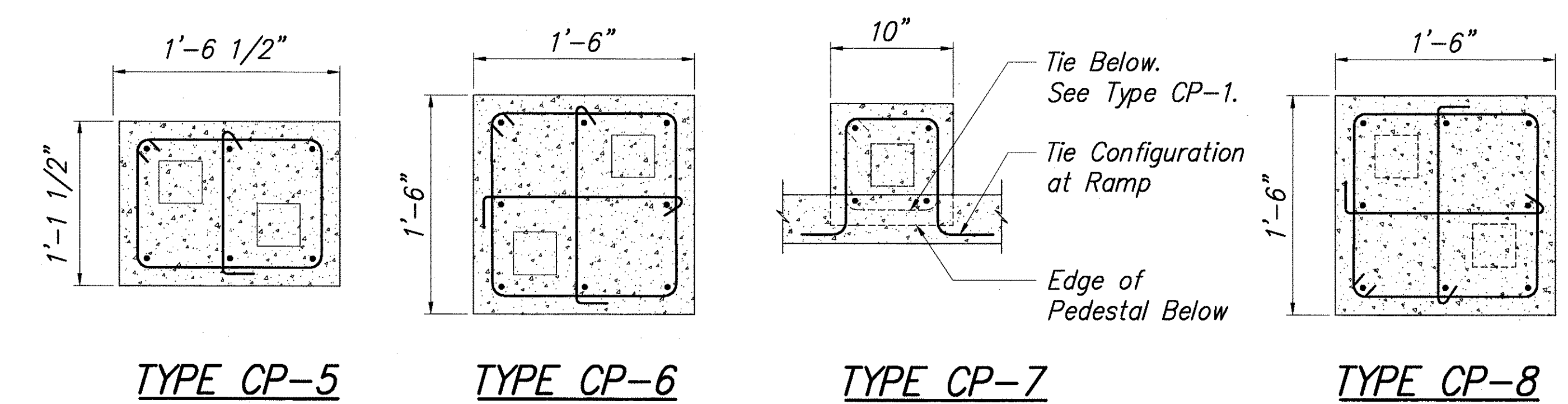
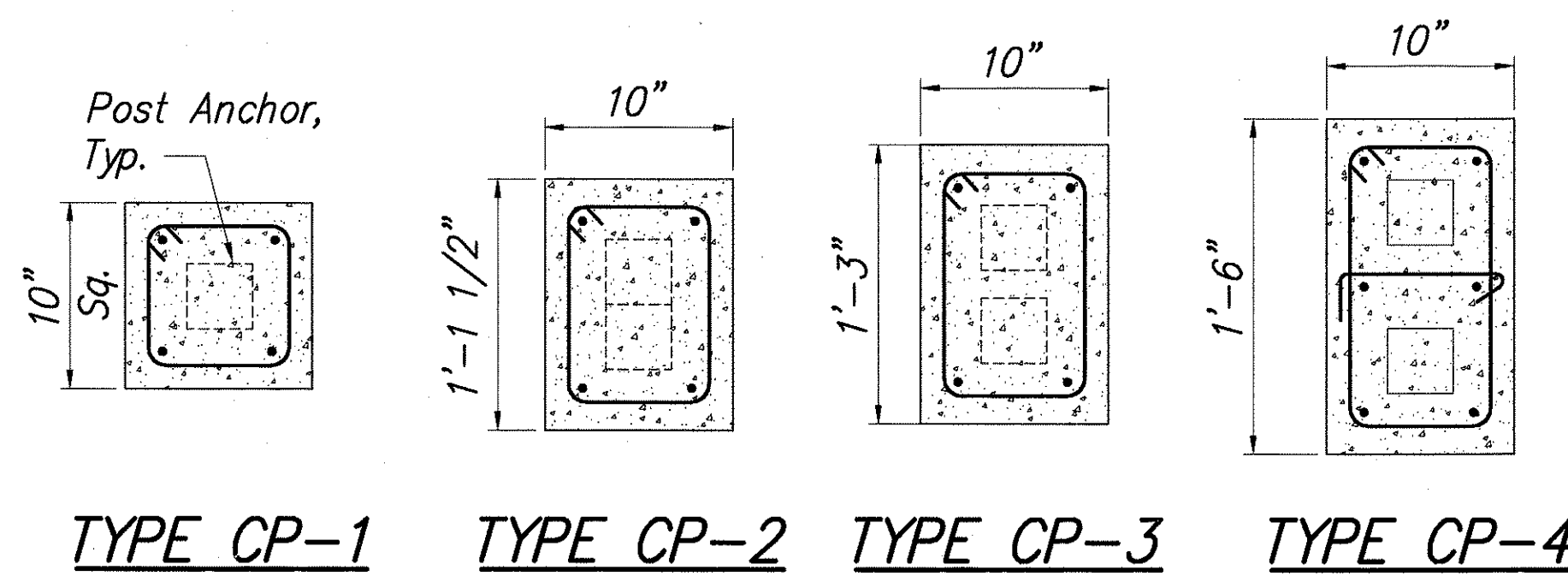






COLUMN FOOTING SCHEDULE						
Type	"L1"	"L2"	"T"	"A" BARS	"B" BARS	REMARKS
CF-1	2'-0"	2'-0"	12"	3- #4	3- #4	
CF-2	2'-6"	2'-6"	24"	3- #4	3- #4	Top and Bottom
CF-3	3'-0"	3'-0"	16"	4- #4	4- #4	Top and Bottom
CF-4	2'-0"	3'-0"	24"	4- #4	3- #4	Top and Bottom

**COLUMN FTG. SCHEDULE AND DETAILS**  
SCALE: 1"=1'-0"



**PEDESTAL DIMENSIONS AND REINF. DETAILS**  
SCALE: 1 1/2"=1'-0"

**Notes on Concrete Pedestal Detail:**

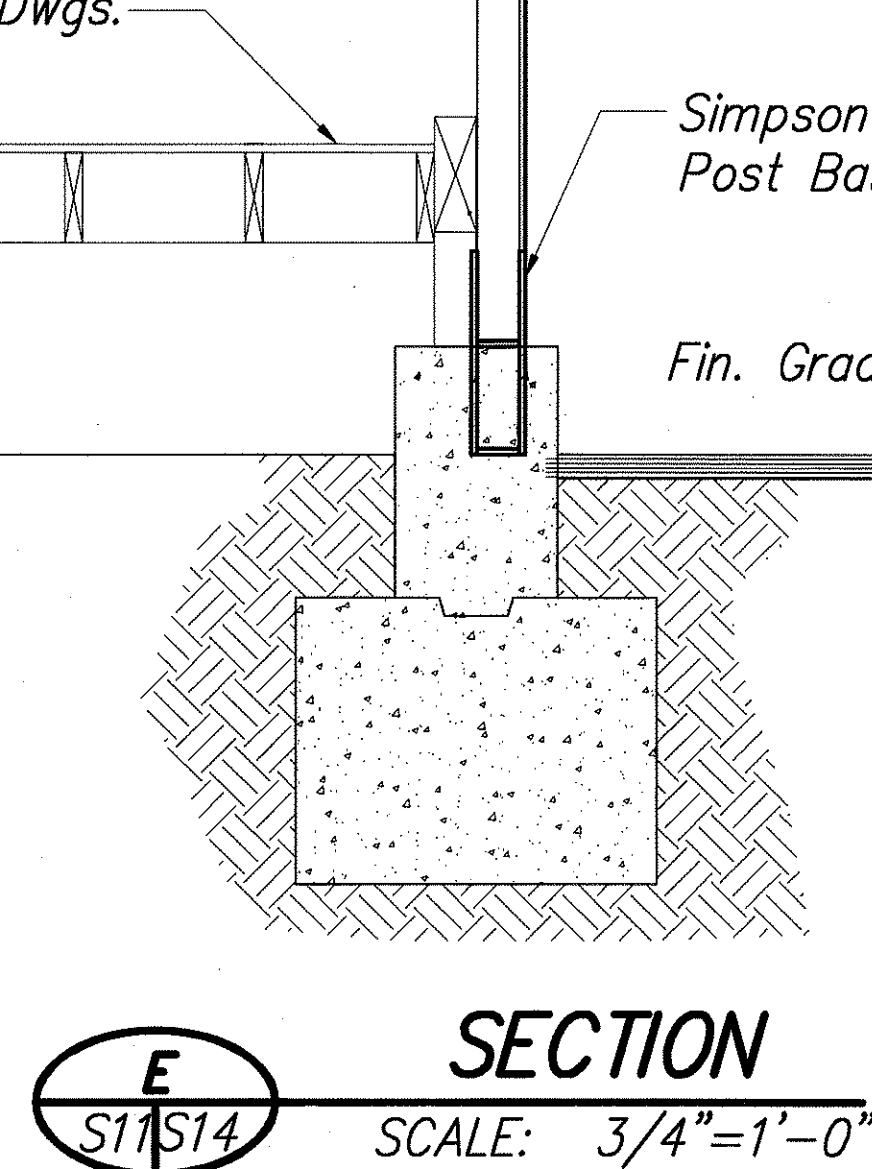
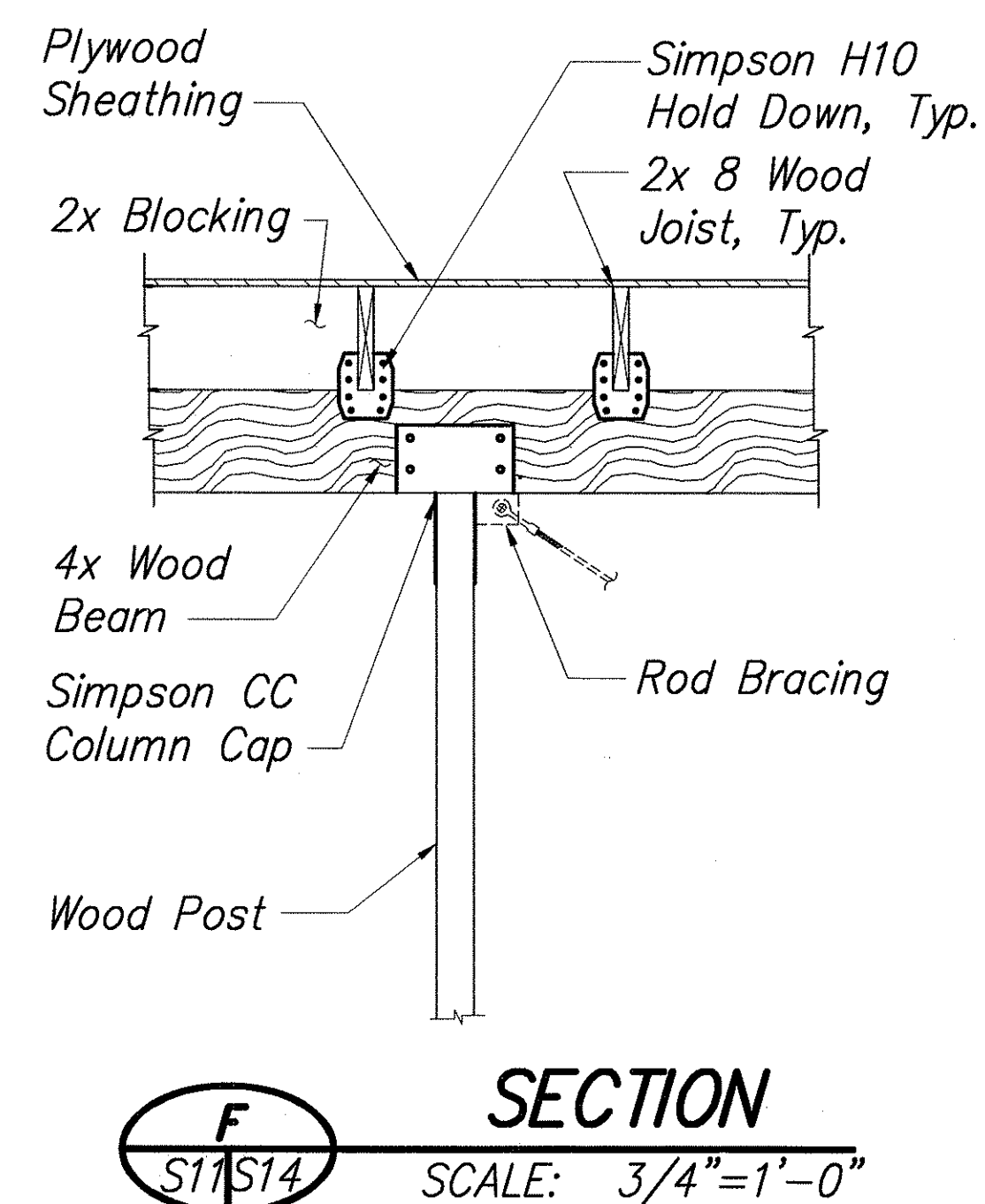
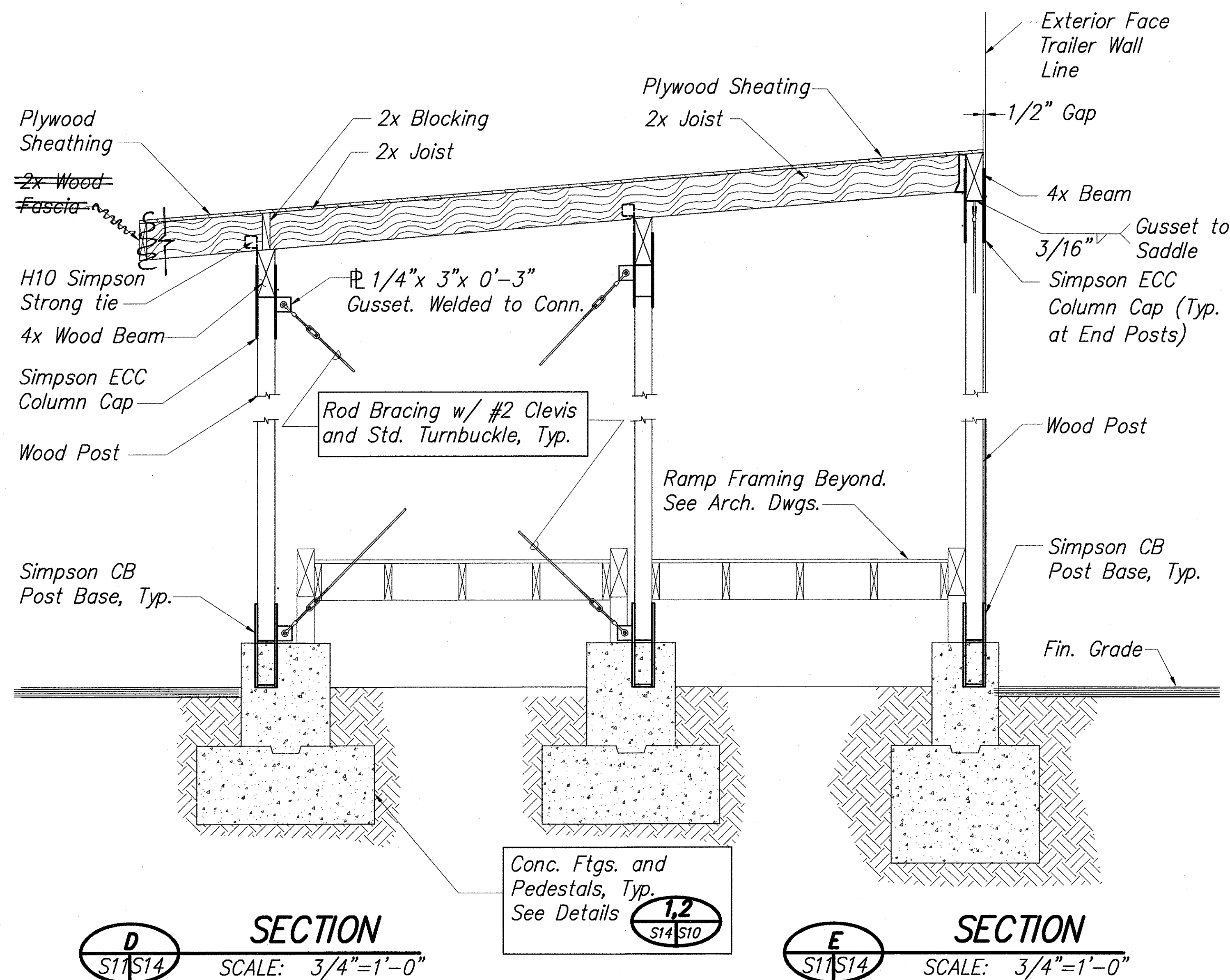
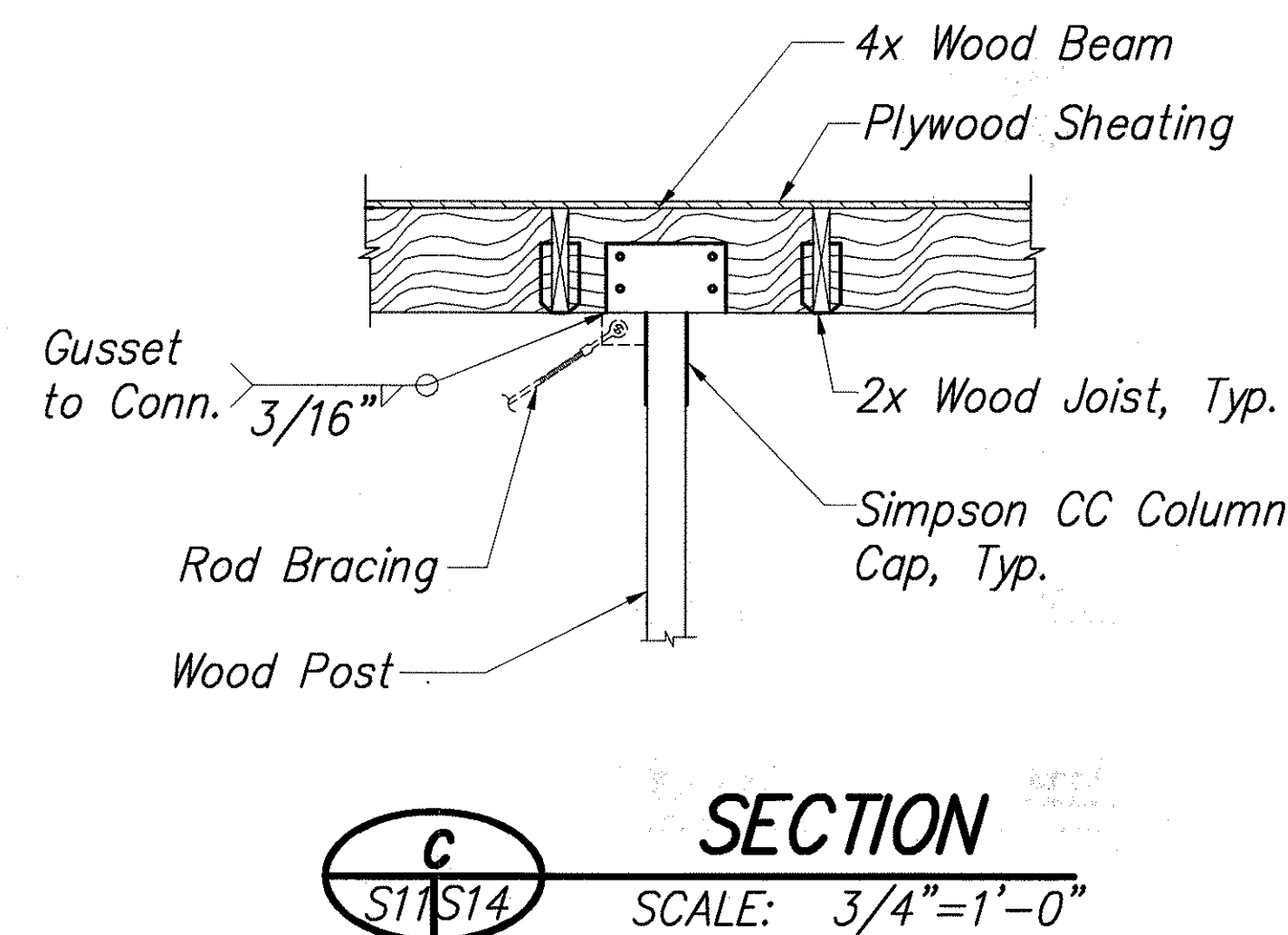
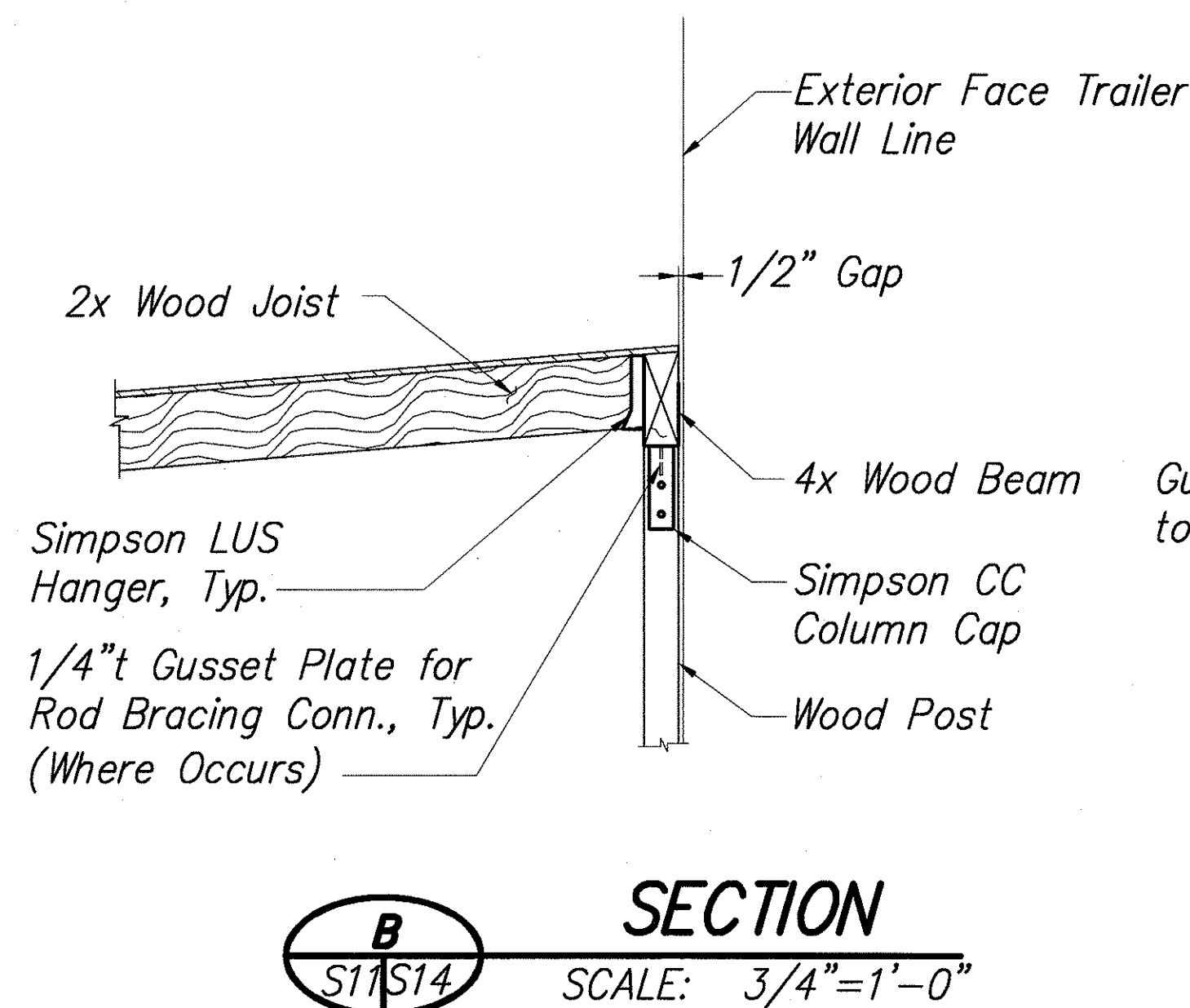
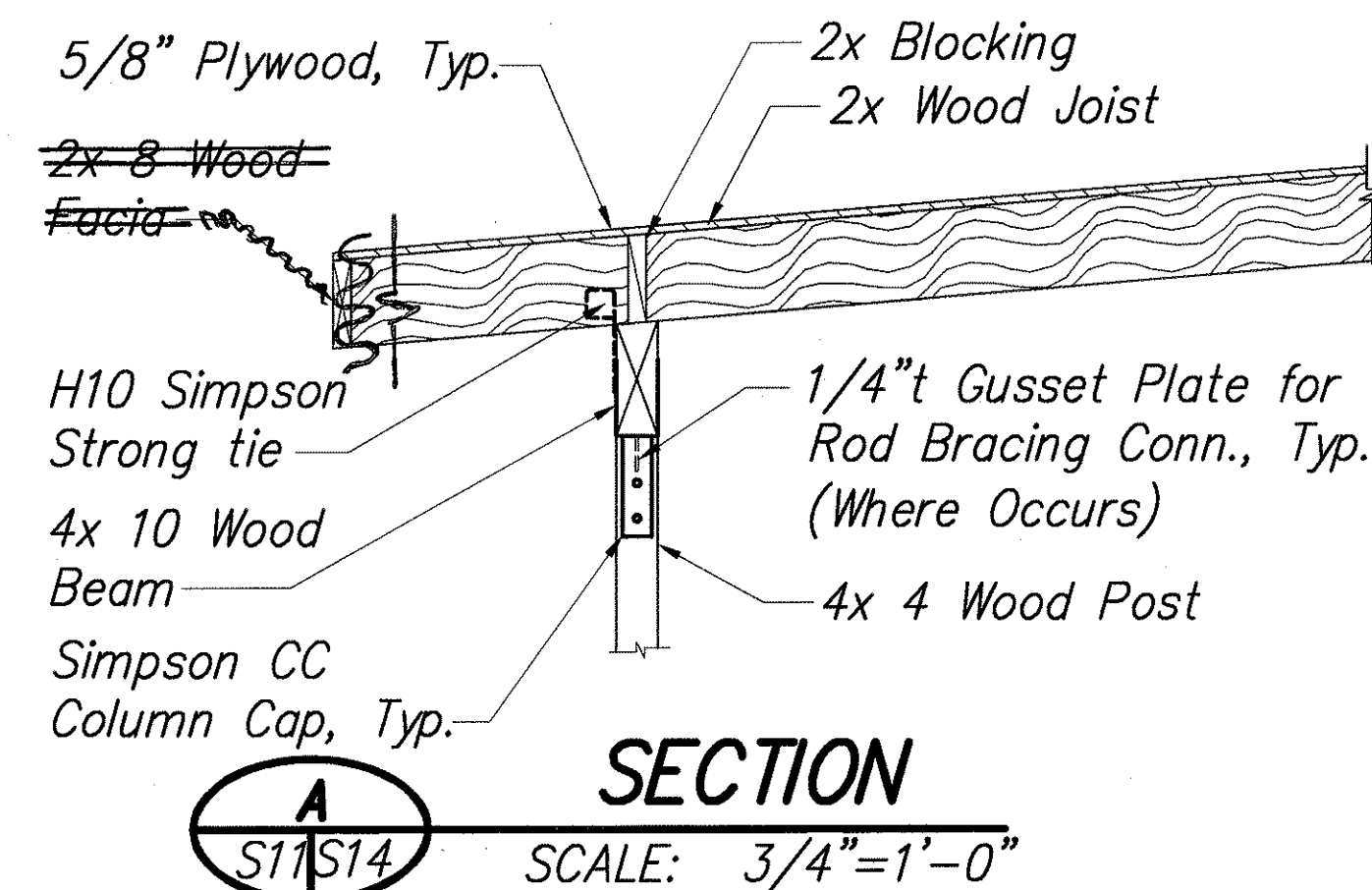
- Vertical reinf. shown are #4 bars.
- Stirrups and ties shown are #3 bars.
- Maintain 3" clr. between the post anchor and edge of pedestal.

ORIGINAL PLAN  
DATE: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
NO. \_\_\_\_\_

LEE T. TAKUSHI  
LICENSED PROFESSIONAL ENGINEER  
NO. 4767-S  
HAWAII USA  
4/30/04  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

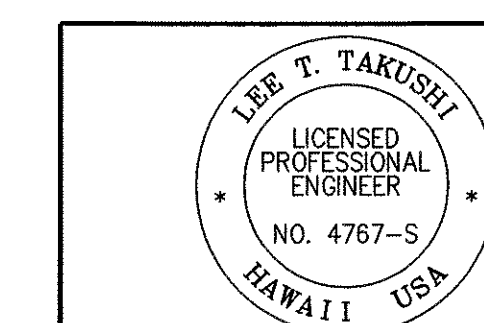
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**OFFICE TRAILER CONC. RAMP**  
**SECTIONS AND DETAILS**  
WAIMEA BASEYARD IMPROVEMENTS  
WAIMEA BASEYARD  
PROJ. No. HWY-H-05-00M  
Scale: As Noted Date: February, 2003  
SHEET No. 13 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-05-00M	2003	32	40



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
CHECKED BY		

1. 1997.9703405P DRAWINGS PLAN S03.DWG 06/28/00 09:07 1b



Signature: *Lee T. Takushi* 4/30/04  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**OFFICE TRAILER RAMP**  
**ROOF DETAILS**  
WAIMEA BASEYARD IMPROVEMENTS  
WAIMEA BASEYARD  
PROJ. No. HWY-H-05-00M

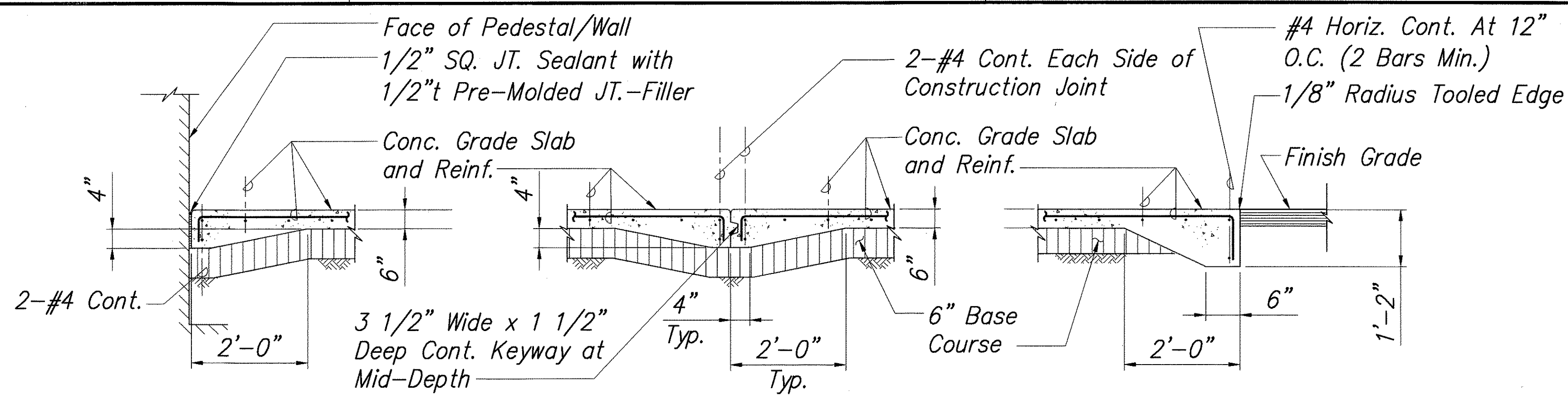
Scale: As Noted Date: February, 2003

SHEET No. 14 OF 15 SHEETS

"AS-BUILT"



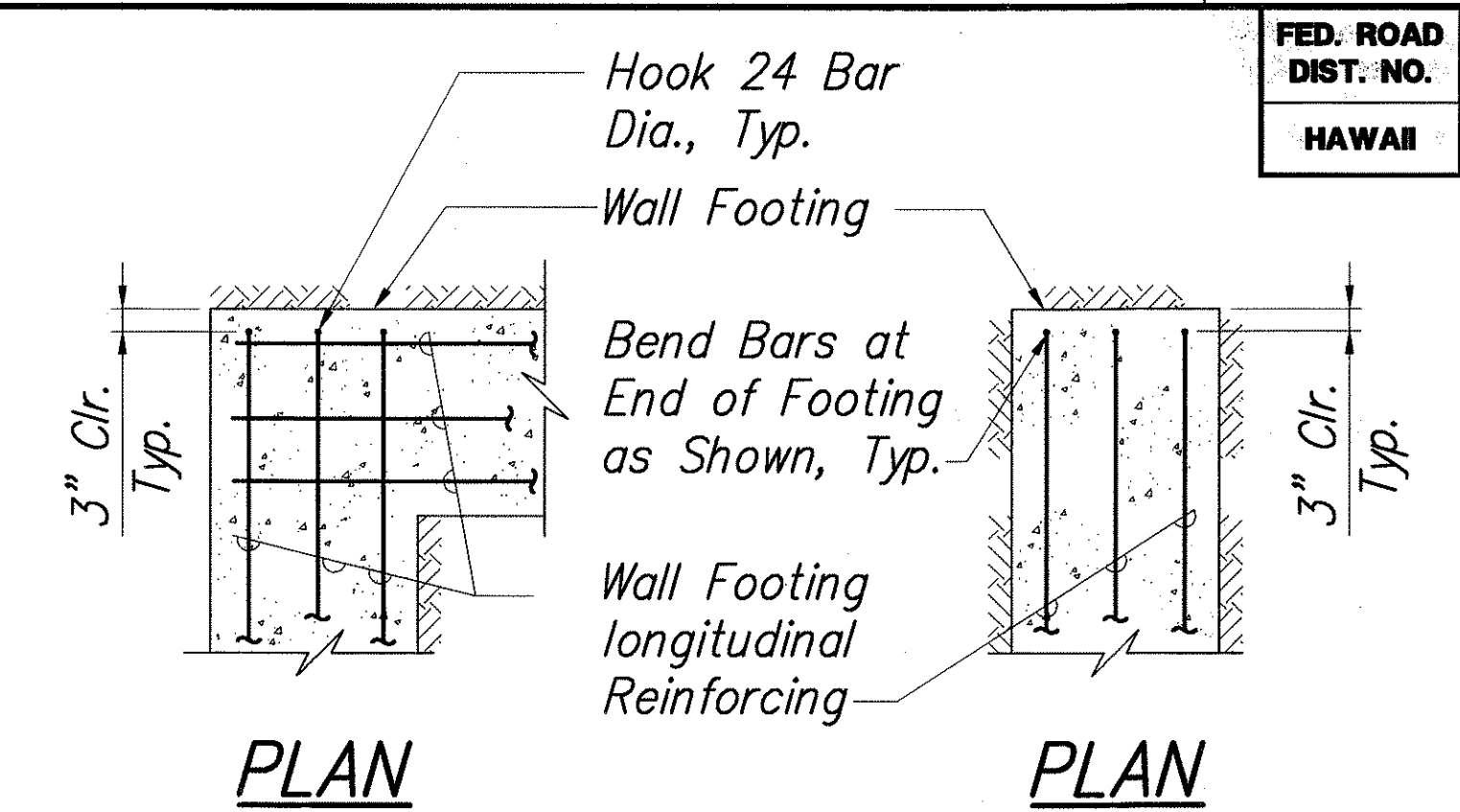
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-05-00M	2003	33	40



EXPANSION JOINT AT PEDESTAL/WALL      CONSTRUCTION JOINT      AT SLAB EDGE

**TYPICAL CONC. GRADE SLAB DETAILS**

NOT TO SCALE

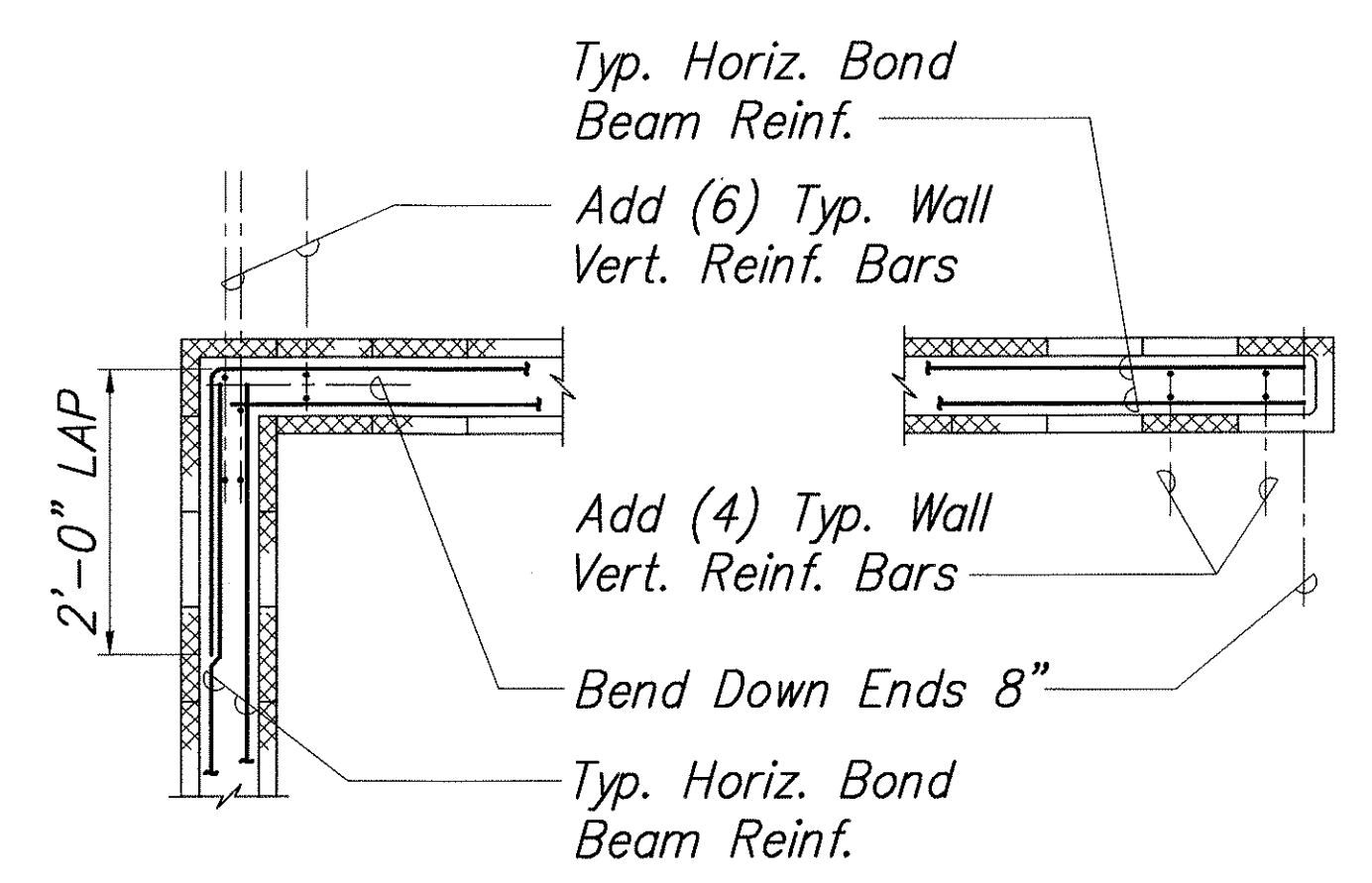


PLAN      PLAN

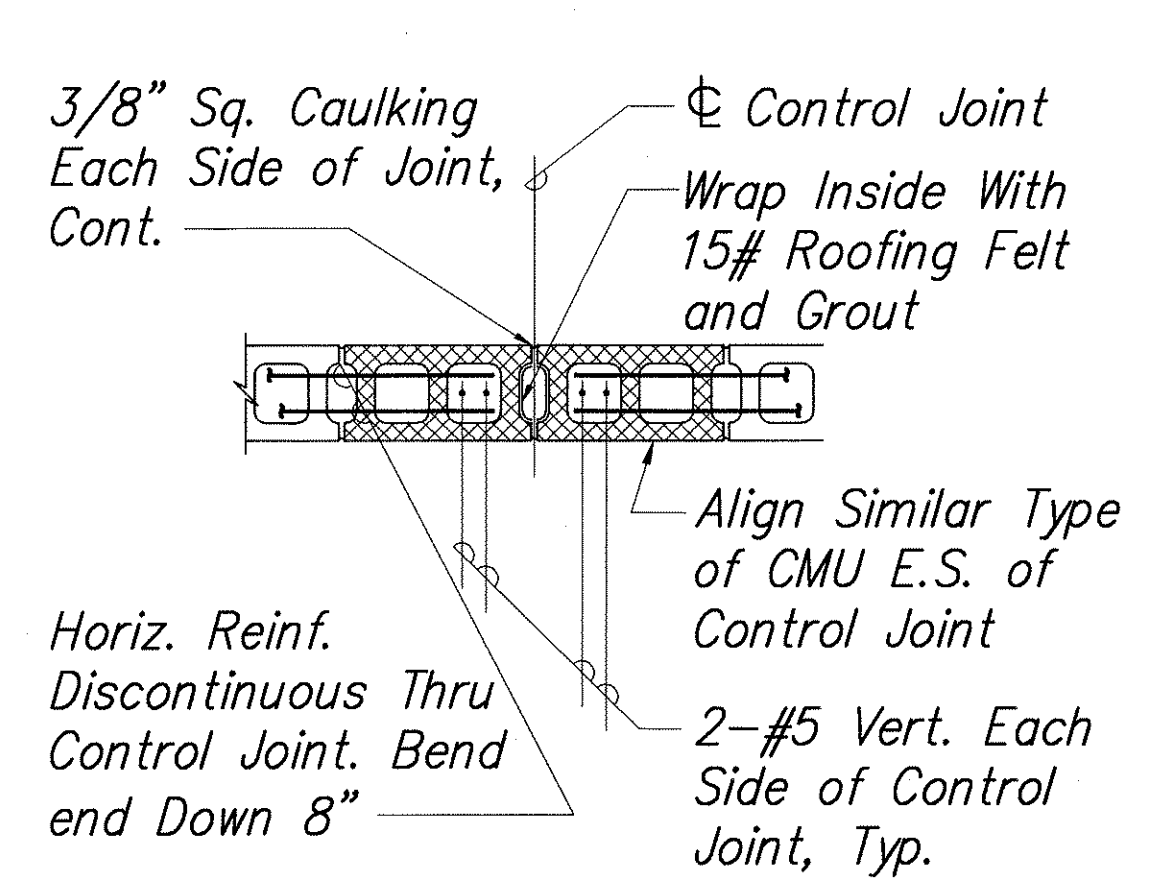
CONDITION AT CORNER      CONDITION AT END

**TYPICAL WALL FOOTING DETAILS**

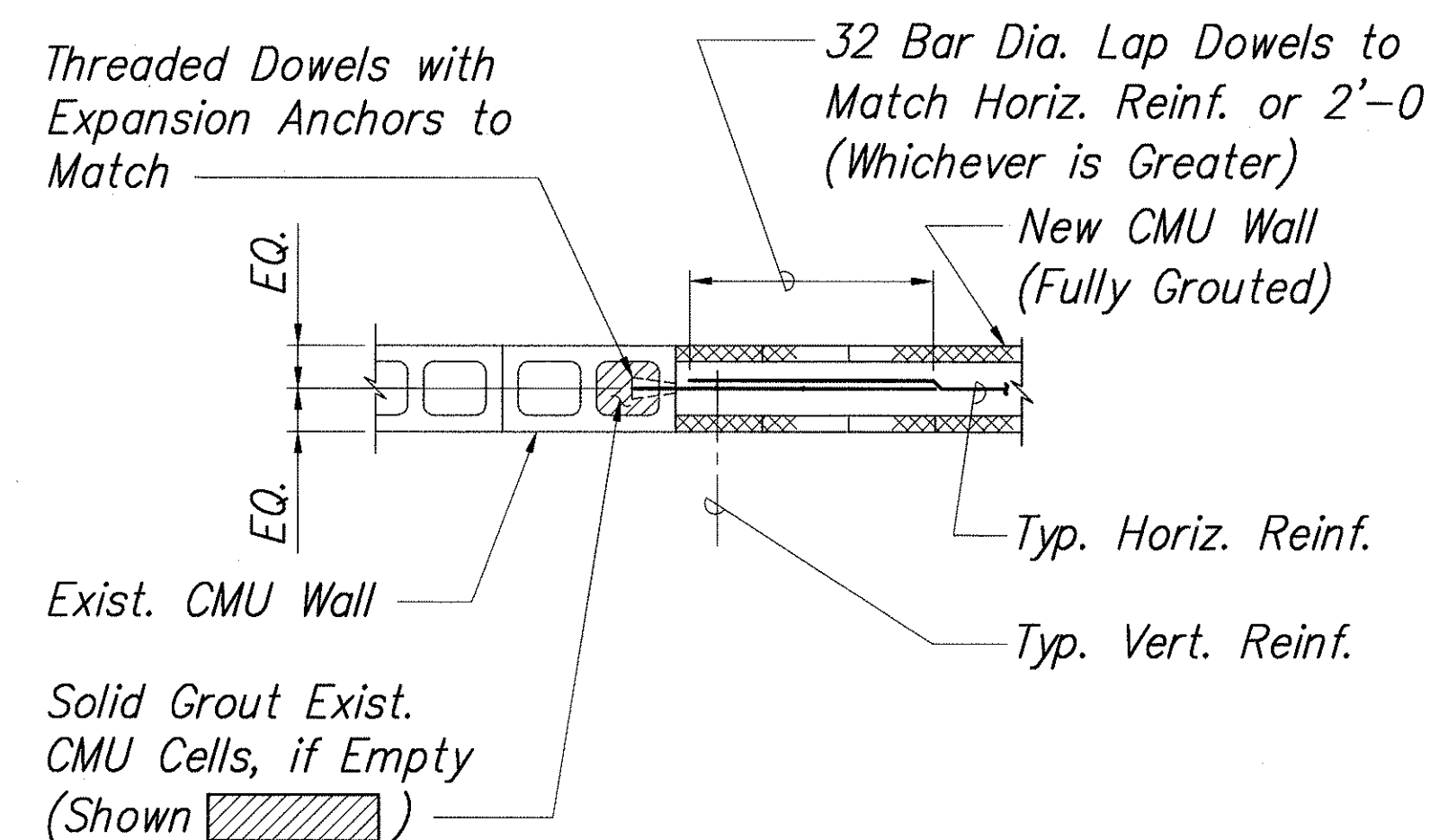
NOT TO SCALE



CONDITION AT CORNER      CONDITION AT END

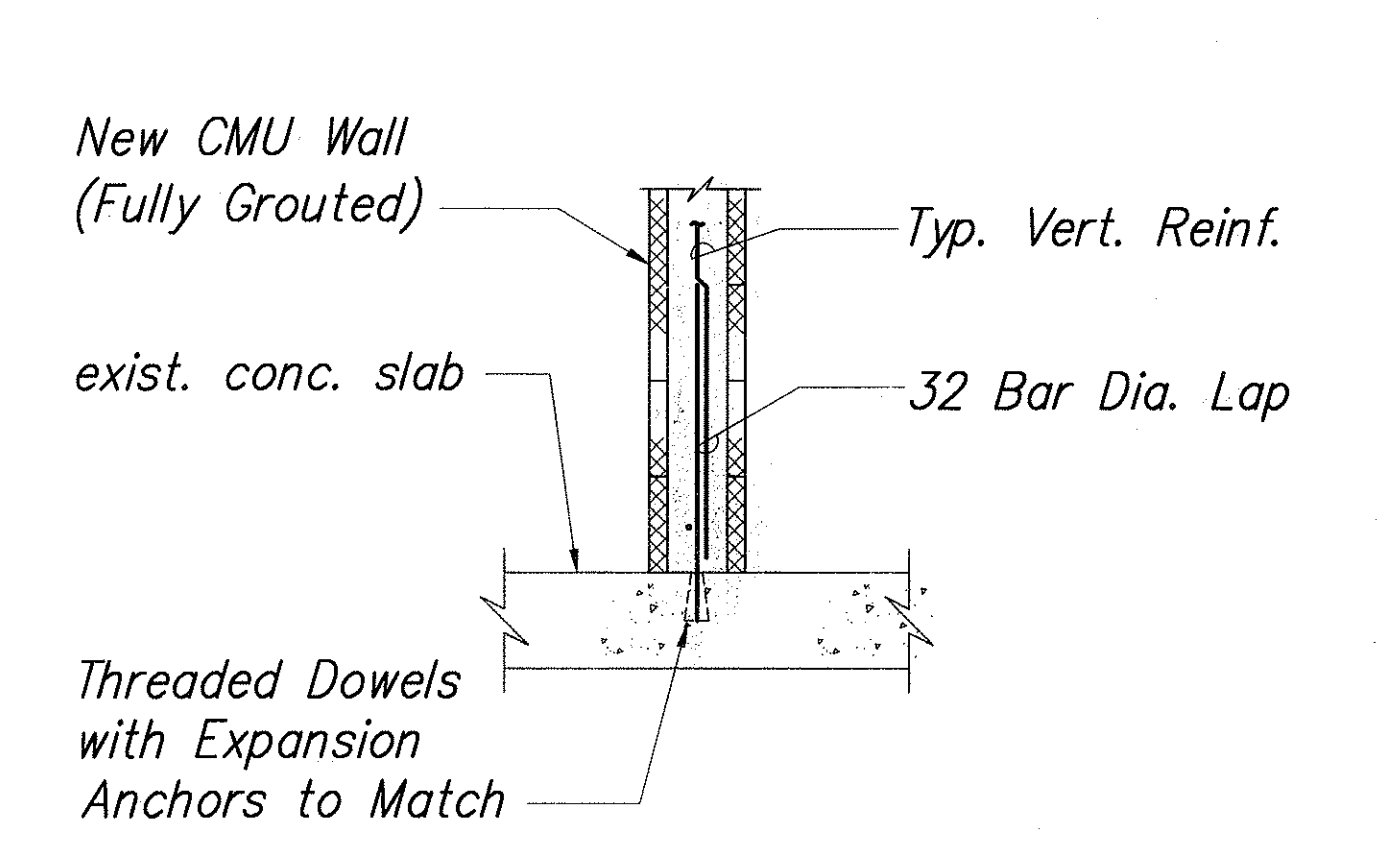


CONDITION AT CONTROL JOINT

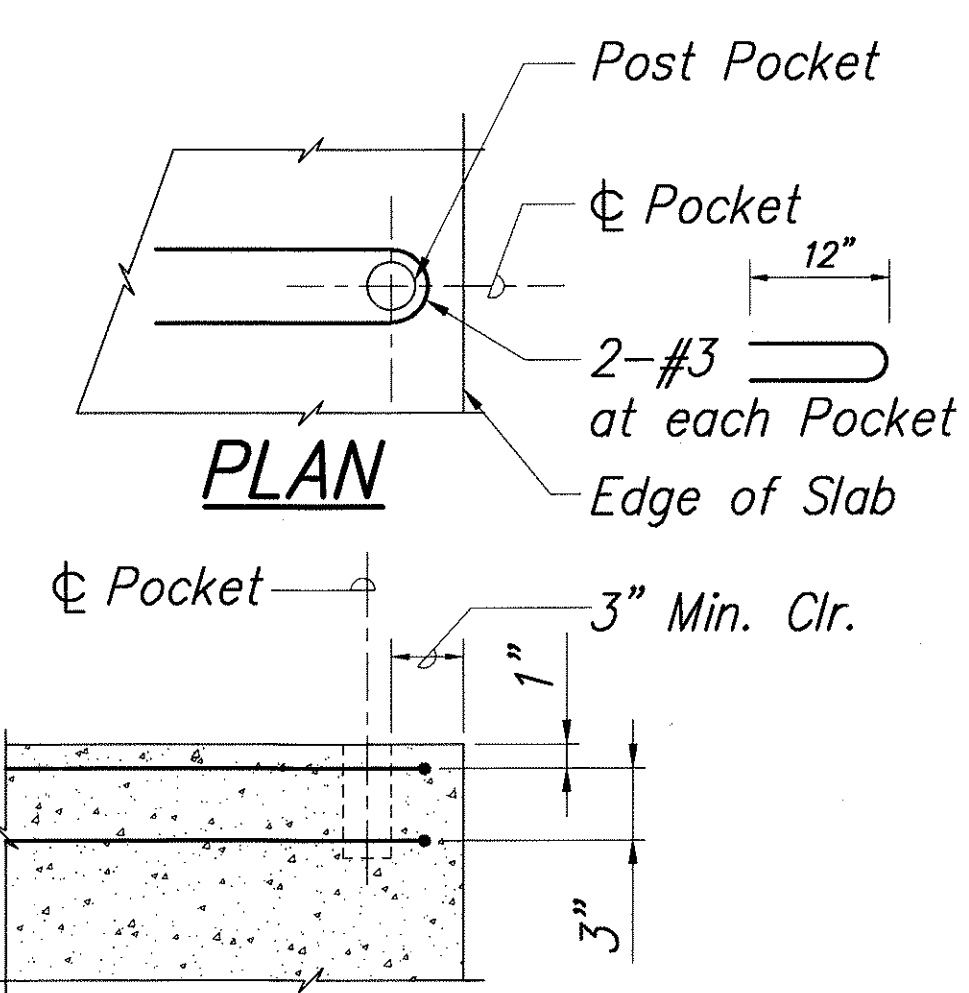


PLAN

CONDITION AT EXISTING WALL



CONDITION AT EXISTING CONC. GRADE SLAB

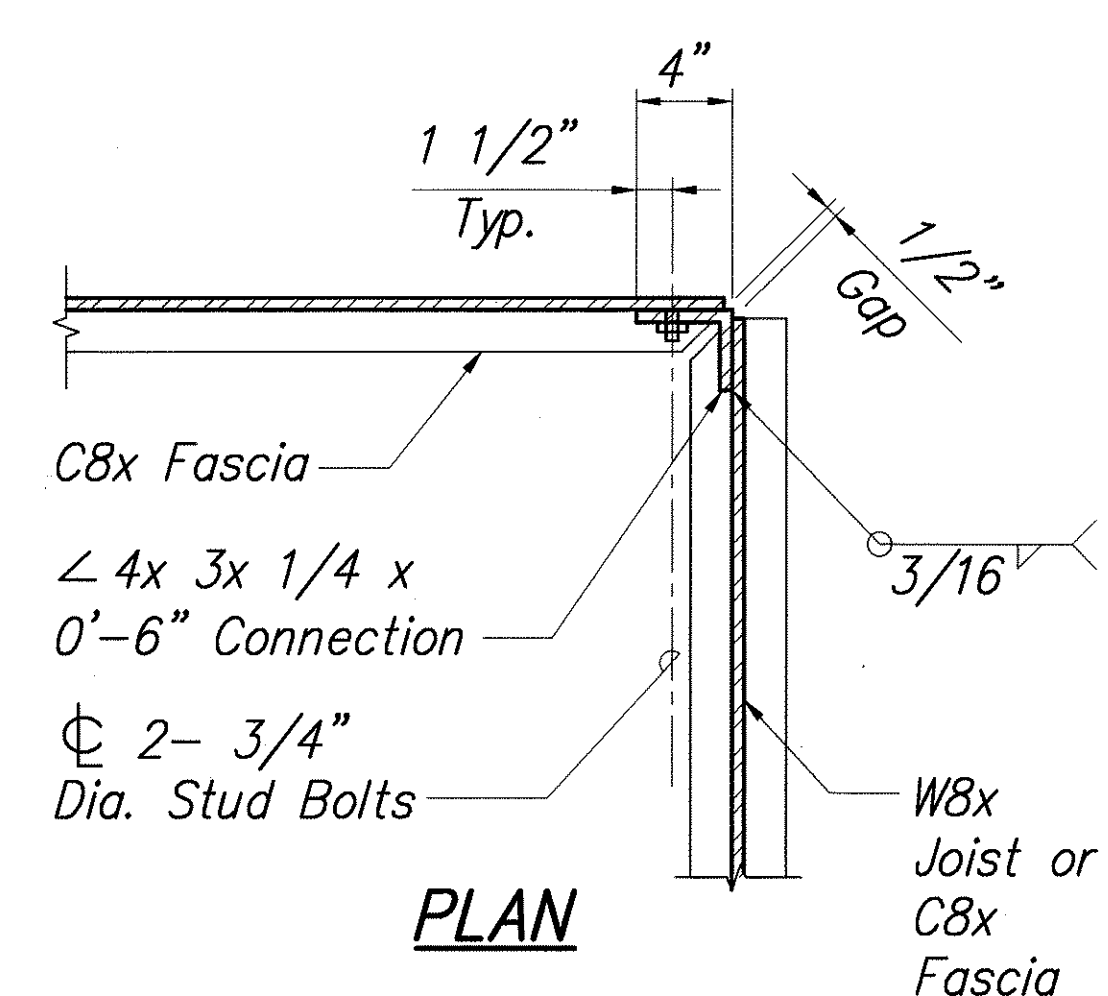


Note:  
See Arch. Dwgs. for Location and other Details for Pockets.

**TYP. POST POCKET DETAIL**

NOT TO SCALE

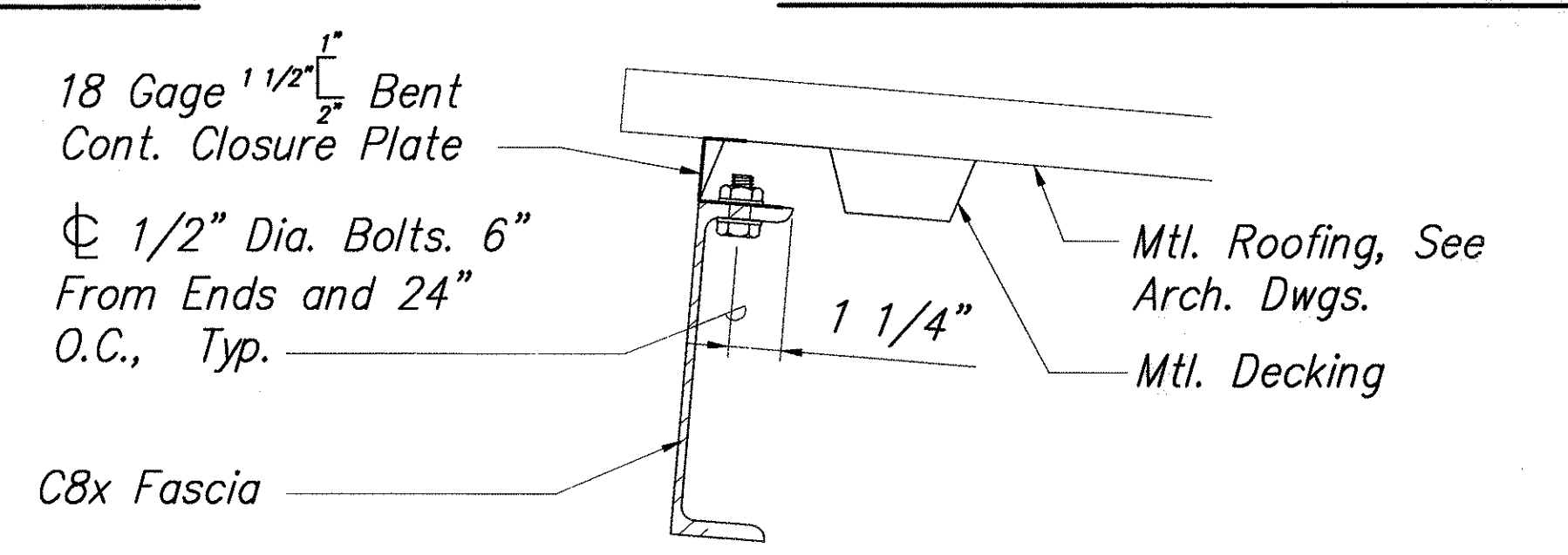
Note:  
Top Flanges not shown for clarity.  
Cope flanges as req'd.



PLAN

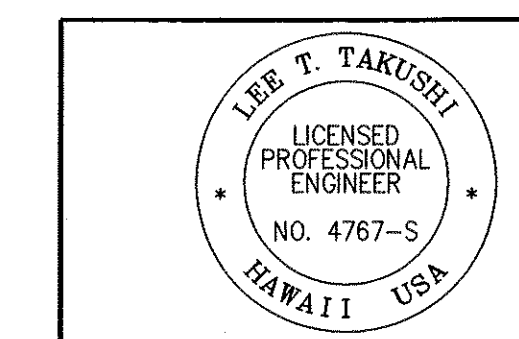
**TYPICAL FASCIA DETAIL**

SCALE: 1 1/2"=1'-0"



**TYPICAL CLOSURE PLATE DETAIL**

NOT TO SCALE



4/30/04  
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**TYPICAL STRUCTURAL DETAILS**  
  
WAIMEA BASEYARD IMPROVEMENTS  
WAIMEA BASEYARD  
PROJ. No. HWY-H-05-00M  
Scale: As Noted  
Date: February, 2003

S-15