FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	75	150

General:

A. Workmanship and materials shall conform to the building code of Kauai (amended UBC, 1997 edition). However, where reference is made to performance conforming to other standards the more stringent shall apply.

B. The contractor shall compare all the contract documents with each other and report in writing to the engineer all inconsistencies and omissions.

C. The contractor shall take field measurements and verify field conditions and shall compare such field measurements and conditions with the drawings before commencing work. Report in writing to the architect all inconsistencies and omissions.

D. The contractor shall be responsible for coordinating the work of all trades.

E. The contractor shall be responsible for methods of construction, workmanship and job safety. The contractor shall provide temporary shoring and bracing as required for stability of structural members and systems.

F. Construction loading shall not exceed design live load unless special shoring is provided. Allowable loads shall be reduced in areas where the structure has not attained full design strength.

G. The contractor shall be responsible for protection of the adjacent properties, structures, streets and utilities during the construction period.

H. Details noted as typical on the structural drawings shall apply in all conditions unless specifically shown or noted.

Design Criteria:

A. Seismic ——— Zone 1

B. Basic wind speed and exposure ——— 80 mph, exposure C

C. Design live loads
   a. Roof ——— 20 psf

D. Allowable foundation bearing capacities
   a. Dead load + live load ——— 3,000 psf
   b. Dead load + live load + lateral load ——— 3,990 psf

E. Retaining walls
   a. Active earth pressure (unrestrained) ——— 40 pcf
   b. Active earth pressure (restrained) ——— 55 pcf
   c. Passive earth pressure ——— 350 pcf
   d. Coefficient of friction ——— 0.4

Foundation:

A. Foundation design is based on geotechnical investigation by Ernest K. Hirata & Associates, Inc. Project # HWK-K-03-98, and work order #93-3061, dated August 3, 2000.

B. Contractor shall provide for de-watering of excavation from surface water, ground water or seepage.

C. Contractor shall provide for design and installation of all cribbing, sheeting, and shoring necessary to preserve excavations and earth banks.

D. Footings shall bear on either the stiff to medium stiff undisturbed silty clay or on at least 12 inches of imported granualr structural fill. Bottom of footings shall be compacted to provide a relatively firm and smooth bearing surface prior to placement of reinforcing steel and concrete. If soft and/or loose materials are encountered at the bottom of footing excavations, they shall be over-excavated to expose the underlying firm materials. The over-excavation shall be backfilled with select granular material compacted to a minimum of 95% relative compaction or the footing bottom may be extended down to the underlying competent material. Footings located on or near the top of slopes, should be imbedded such that a minimum horizontal distance of 5 feet is maintained between the bottom edge of the footings and sloped face.

E. Excavations for footings shall be approved by the geotechnical engineer prior to placement of concrete and reinforcing. Geotechnical engineer shall submit letter of compliance to the engineer.

F. Contractor shall brace or protect all walls below grade from lateral loads until attaching floors are completely in place and have attained their full design strength.

G. All building slabs on grade should be underlain by a four inch cushion of clean gravel, such as #3 fine (ASTM C 33,No.67). Building slabs should also be protected by a plastic moisture barrier placed over a cushion material.

Concrete:

A. Concrete construction shall conform to American Concrete Institute ACI 318R-89.

B. Concrete shall be regular weight hard rock concrete and shall have the following minimum 28 day compressive strengths:
   a. Footings, grade beams, tie beams 3,000 psi
   b. Slabs on grade 3,000 psi
   c. Walls 4,000 psi
   d. All other concrete 3,000 psi

C. Concrete delivery tickets shall record all free water in the mix: at batching by plant, for consistency by driver, and any additional request by contractor if permitted by the mix design.

D. All inserts, anchor bolts, plates, and other items to be cast in the concrete shall be hot-dipped galvanized unless otherwise noted.

E. Reinforcing bars, anchor bolts, inserts, and other items to be cast in the concrete shall be secured in position prior to placement of concrete.

F. Conduits, pipes, and sleeves passing through a slab or footing and not conforming to typical details shall be located and submitted to the engineer for approval.

G. Conduits, pipes, and sleeves embedded within a slab or wall (other than those merely passing through) shall be:
   a. No larger in outside dimensions than one third the overall slab or wall thickness in which they are embedded.
   b. Placed in the middle one third of slab or wall thickness
   c. Spaced no closer than three diameters or widths on center.

H. Conduits, pipes, and sleeves shall not be placed through or embedded in a beam unless specifically detailed.

I. The contractor shall locate construction joints so as not to impair the strength of the structure and to minimize shrinkage stresses. Submit location of construction joints to the engineer for approval, unless otherwise noted.

J. See architectural drawings for chamfers, edge radii, drips, reglets, finishes and other non-structural items not shown or specified on the structural drawings.

K. Non-shrink grout shall be a premixed non-metallic formula, capable of developing a minimum compressive strength of 3,000 psi in 1 day and 5,000 psi in 28 days.

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

KEN KAZUO HAYASHIDA
LICENSED PROFESSIONAL ENGINEER
No. 6818-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

GENERAL NOTES

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S0.01 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	76	150

Reinforcing Steel:

A. Reinforcing steel shall be deformed bars conforming to ASTM A615, Grade 60.

B. Welded wire fabric shall conform to ASTM A185, galvanized.

C. Clear concrete cover for reinforcing bars shall be as follows, unless otherwise noted:
   a. Footings, grade beams, etc. Cast against earth 3"
   b. Footings, grade beams, etc. Formed and exposed to earth or weather 2"
   c. Walls
      1. Faces exposed to earth or weather
         #5 bars and smaller 1 1/2"
         #6 bars and larger 2"
      2. Interior faces 1"
   d. Beams and columns
      primary reinforcement, stirrups, ties and spirals 1 1/2"
   e. Structural slabs
      1. Faces exposed to earth or weather 1 1/2"
      2. Interior faces 1"

D. Clear distance between the surface of a bar and any surface of a masonry unit shall be not less than 1/2 inch, unless otherwise noted.

E. Reinforcing steel shall be spliced where indicated on plans. Provide lap splice length per typical details and schedule, unless otherwise noted.

F. Welded wire fabric shall be lapped 8 inches or one full mesh plus 2 inches, whichever is greater.

G. Mechanical splice connectors shall develop in tension 125 percent of the specified minimum yield strength of reinforcing bars.

H. Bar bends and hooks shall be "standard hooks" in accordance with ACI 318 Unless other wise noted.

Concrete Masonry Units (CMU):

A. Concrete masonry units shall be type n– ii, normal weight hollow load–bearing units conforming to ASTM C–90 and have a minimum compressive strength of 1,500 psi.

B. Mortar shall be type "m" conforming to ASTM C270 and have a minimum compressive strength of 2,500 psi at 28 days.

C. Grout shall conform to ASTM C476 and have a minimum compressive strength of 2,500 psi at 28 days.

D. All cells and bond courses shall be solid grouted. Cleanouts shall be provided for all grout pours over 5'–4" in height.

E. When grouting is stopped for one hour or longer, horizontal construction joints shall be formed by stopping the grout pour 1 1/2 inches below the top of the uppermost unit.

F. The contractor shall locate construction joints so as not to impair the strength of the structure and to minimize shrinkage stresses. Submit location of construction joints to the architect for approval, unless otherwise noted. Maximum spacing between construction joints shall be 25 feet.

G. Walls shall be constructed in conventional running bond, unless otherwise noted.

H. See architectural drawings for laying pattern, height of units, surface texture, and joint type.

I. Open–ended blocks may be substituted for standard concrete masonry units.

Structural Steel:

A. Fabrication and erection of structural steel shall conform to the American Institute of Steel Construction Manual of Steel Construction, Ninth Edition.

B. Structural steel shall conform to ASTM A36 unless otherwise noted.

C. Steel wide flange sections shall conform to ASTM A992, Grade 50.

D. Steel pipes shall conform to ASTM A53, Grade B.

E. Steel tubes shall conform to ASTM 500, Grade B.

F. Bolts shall conform to ASTM A307, Grade a hot dip galvanized unless otherwise noted.

G. High–strength bolts shall conform to ASTM A325, type 1 hot dip galvanized. Use load indicator washers.

H. Welds and welding procedures shall conform to the structural welding code AWS D1.1 of the American Welding Society.

I. Welding shall be performed by welders prequalified for welding procedures to be used.

J. Welding electrodes shall be E70xx.

K. All steel shall be prime painted in the shop.

L. Exposed steel shall be hot–dipped galvanized.

Open Web Steel Joists:

A. Open web steel joists shall conform to the Steel Joist Institute Specifications of latest adoption.

B. Open web steel joist members shall be of the type and designation called for on the drawings.

C. Open web steel joists shall be cambered as required by the joist manufacturer.

D. Bridging complying with the steel joist institute specifications shall be provided for all open web steel joists. See roof framing plan for minimum bridging requirements.

E. Open web steel joist design loads:
   a. Roof dead load 15 psf
   b. Roof dead load for net wind upliftmaso 12 psf
   c. Roof live load 20 psf

Metal Deck:

A. Metal deck and accessories shall be of the type and gage called for on the drawings.

B. Metal deck and accessories shall be formed from steel sheets conforming to ASTM 653 Sq Grade 33, minimum yield strength 38 ksi, with G60 galvanized coating.

C. Deck shall be three span continuous where possible. Do not locate single spans at edges or corners.

D. Minimum bearing of decking on supports shall be 2 inches.

E. Welding of metal deck shall be performed by certified light gage steel welders.

Structural Cold–Formed Metal Framing:

A. Fabrication and erection of gage metal structures shall be in accordance with the American Iron and Steel Institute Specifications, latest edition.

B. Cold–formed steel members and accessories shall be of the type and gage called for on the drawings. Member designations are per Metal Stud Manufacturer's Association.

C. All members 16, 14, and 12 gage shall meet the requirements of ASTM A 653 Sq Grade 50. All members 20 and 18 gage shall meet the requirements of ASTM A 653 Sq Grade 33.

D. Prefabricated framing hardware shall be Simpson Strong Tie galvanized, or approved equal. Install per manufacturer's recommendations.

E. Screws shall be self–drilling, self–tapping, gage metal screws. Minimum edge distance and center to center spacing shall be 3/4 inch.

ORIGINAL PLAN
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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

GENERAL NOTES

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S0.02 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	77	150

Cold–Formed Steel Purlins

A. Fabrication and erection of gage metal structures shall be in accordance with the American Iron and Steel Institute Specifications, latest edition.

B. Cold–formed steel purlins and accessories shall be of the type and gage called for on the contract documents.

C. Purlins shall span over two or more supports.

D. Cold–formed steel purlins shall meet the requirements of ASTM A 570. Minimum yield strength of steel shall be 55,000 psi.

E. Cold formed steel purlins shall have the following minimum section properties:
a. 8"x 12 Gage Z–purlin: ixx = 17.21 in^3, S min =
b. 8"x Gage Eave strut: ixx = 14.21 in^3, S Min =
c. 8"x Gage C–purlin: ixx = in^3, S min =

F. Contractor shall submit shop drawings to the engineer for approval prior to fabrication. Shop drawings shall indicate layout, framing and supports with dimensions, sections, type and location of attachments and details of accessories.

Special inspection:

A. Contractor shall be responsible for ensuring that special inspection of portions of the work, as required by the building code of the County of Kauai, be made at the appropriate time. The contractor shall give timely notice of when and where inspections are to be made and provide access for the inspector. The contractor shall correct defective work at no additional cost to the owner and pay for re–inspection.

B. The following structural work requires special inspection:
a. Structural welding
b. High strength bolting
c. Concrete
d. Reinforcing steel

ORIGINAL PLAN
NOTE BOOK No.
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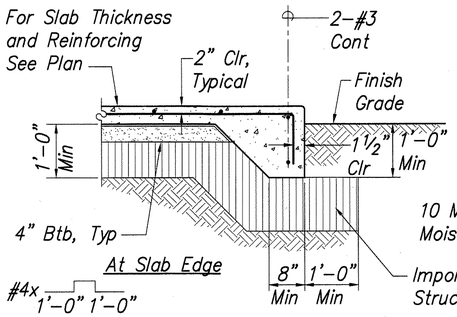
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

GENERAL NOTES

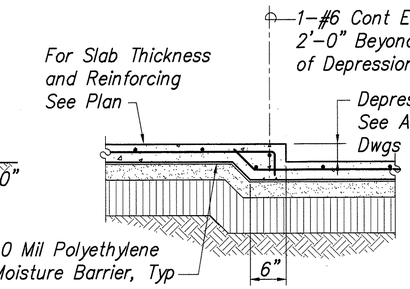
SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S0.03 OF 150 SHEETS

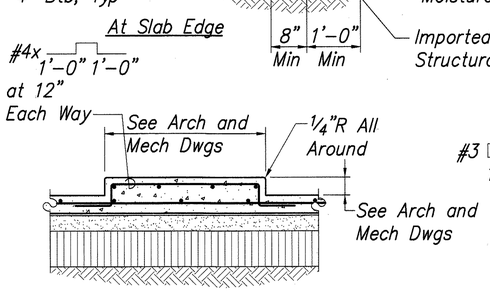
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	78	150



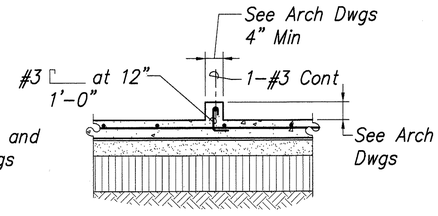
At Slab Edge



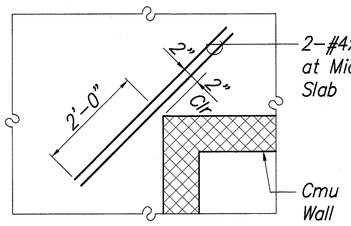
At Depressed Slab



At Equipment Pad



At Curb



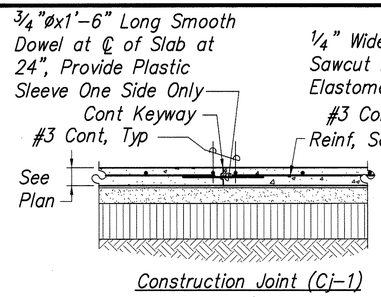
Plan

Reinf At Reentrant Corners

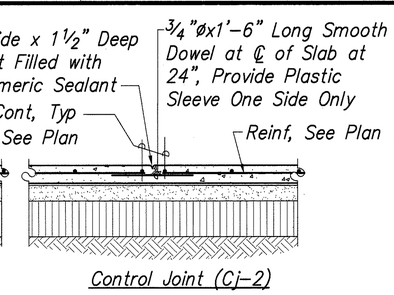
TYPICAL SLAB-ON-GRADE DETAILS (1)

Not To Scale

S0.04 | S0.04



Construction Joint (Cj-1)



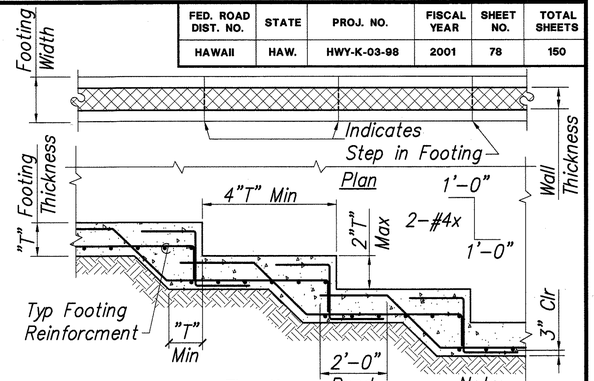
Control Joint (Cj-2)

Note:
Saw Cutting shall occur as soon as concrete surface is firm enough to not be torn by cutting blade and before shrinkage cracking occurs, but no later than 12 hours after concrete has been poured.

TYPICAL SLAB JOINT DETAILS (2)

Not To Scale

S0.04 | S0.04



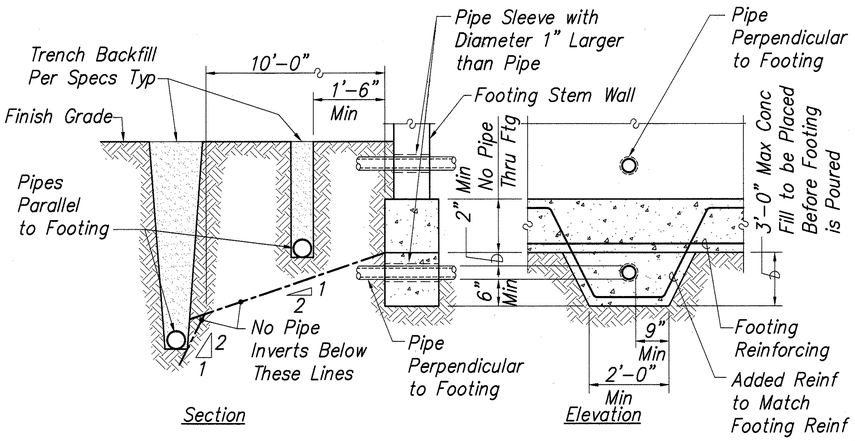
Elevation

Note:
Do Not Step Within Column Footings

STEP FOOTING DETAILS (3)

Not To Scale

S0.04 | S0.04



Section

Elevation

TYPICAL PIPE AT FOOTING DETAIL (4)

Not To Scale

S0.04 | S0.04

Notes:

1. For pipe perpendicular to footing more than 3'-0" below bottom of footing, trench may be backfilled with compacted fill, See specifications.
2. Depth of footing may be affected by location of pipes. General Contractor shall determine exact depth and location of pipes prior to excavation for footings.

MINIMUM SPLICE & EMBEDMENT LENGTHS

CONCRETE STRENGTH = 3,000 PSI

BAR SIZE	LAP SPLICE: BOTTOM BAR OR WALL BAR	LAP SPLICE: TOP BAR	EMBEDMENT: STRAIGHT: BOTTOM BAR OR WALL BAR	EMBEDMENT: STRAIGHT: TOP BAR	EMBEDMENT: WITH STANDARD HOOK
#3	24"	28"	17"	22"	8"
#4	24"	28"	17"	22"	8"
#5	28"	36"	21"	27"	10"
#6	32"	42"	25"	32"	12"
#7	38"	50"	29"	38"	14"
#8	44"	56"	33"	43"	16"
#9	48"	64"	37"	48"	18"
#10	58"	76"	45"	58"	20"
#11	72"	93"	55"	71"	22"

MINIMUM SPLICE & EMBEDMENT LENGTHS

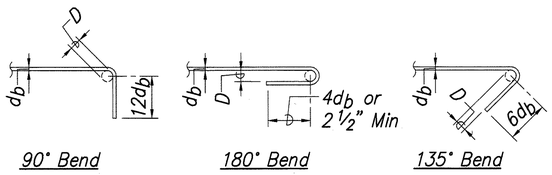
CONCRETE STRENGTH = 2,500 PSI

BAR SIZE	LAP SPLICE: BOTTOM BAR OR WALL BAR	LAP SPLICE: TOP BAR	EMBEDMENT: STRAIGHT: BOTTOM BAR OR WALL BAR	EMBEDMENT: STRAIGHT: TOP BAR	EMBEDMENT: WITH STANDARD HOOK
#3	24"	32"	18"	24"	9"
#4	32"	42"	24"	32"	12"
#5	39"	51"	30"	39"	15"
#6	47"	62"	36"	47"	18"
#7	55"	72"	42"	55"	21"
#8	63"	82"	48"	63"	24"
#9	72"	94"	55"	71"	28"
#10	80"	104"	61"	80"	31"
#11	89"	115"	68"	88"	34"

TYPICAL REBAR SPLICE AND EMBEDMENT LENGTH SCHEDULE (5)

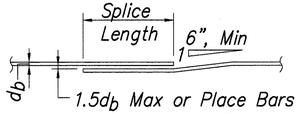
Not To Scale

S0.04 | S0.04



90° Bend 180° Bend 135° Bend

D = 6d_b for #8 and Smaller
D = 8d_b for #9 to #11



Bar Lap

Notes:

1. Length are for concrete with rebar spaced 6 bar diameters min oc. Increase bar length 25% for bars spaced less than 6 bar diameters oc.
2. "Top Bars" are horizontal bars with 12" or more of concrete cast below.

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LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

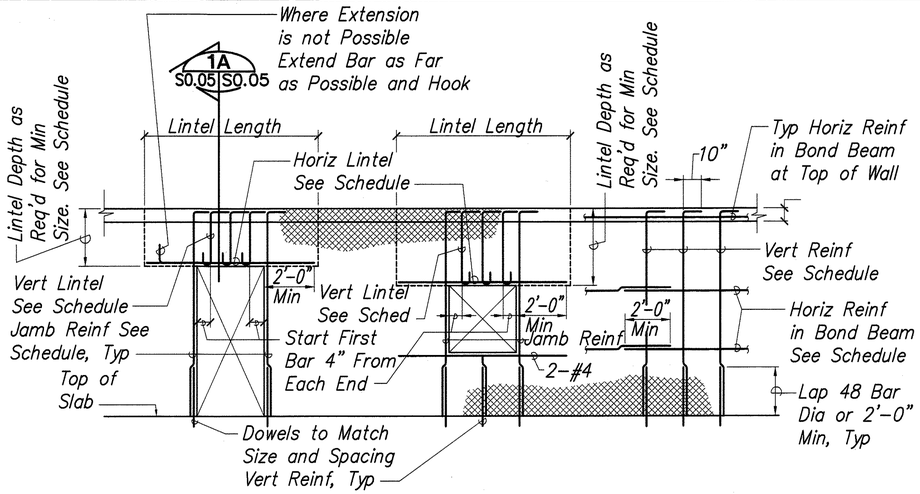
TYPICAL DETAILS

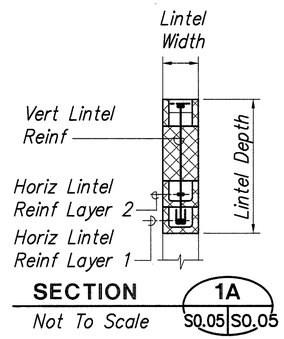
SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S0.04 OF 150 SHEETS

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	79	150

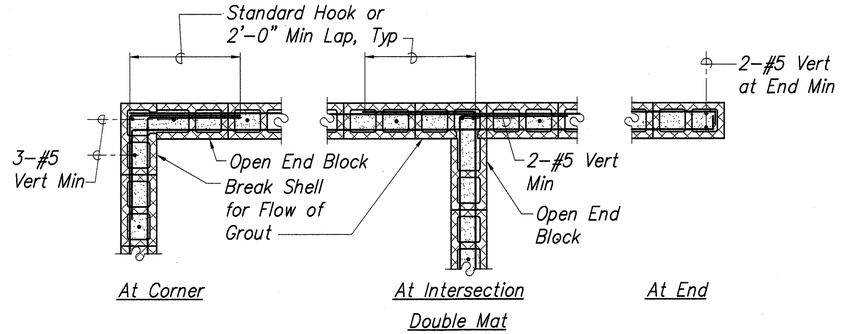




SECTION 1A S0.05 S0.05
Not To Scale

OPENING SCHEDULE							
OPENING WIDTH	LINTEL WIDTH	LINTEL DEPTH	REINFORCING				REMARKS
			JAMB	LINTEL HORIZ LAYER 1	LINTEL HORIZ LAYER 2	LINTEL VERT	
W< 4'-0"	8"	2'-0"	2-#5	2-#4	2-#4	#4 AT 8"	
4'-1" < W < 8'-0"	8"	2'-8"	2-#5	2-#5	2-#5	#4 AT 8"	
8'-1" < W <12'-0"	8"	3'-4"	2-#5	2-#5	2-#5	#4 AT 8"	

CMU WALL REINFORCING SCHEDULE				
MARK	WALL THICKNESS	BAR SIZE AND SPACING		
		HORIZ	VERT	REMARKS
CMU-1	8"	2-#4 AT 48"	#5 AT 24"	.
CMU-2	12"	2-#4 AT 48"	#5 AT 16"	.



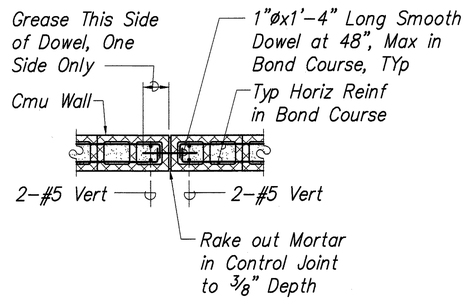
TYPICAL CMU WALL ELEVATION DETAIL — 1 S0.05 S0.05

Not To Scale

Note:
All walls shall be solid grouted.

CMU WALL REINFORCING AT BOND BEAM — 2 S0.05 S0.05

Not To Scale

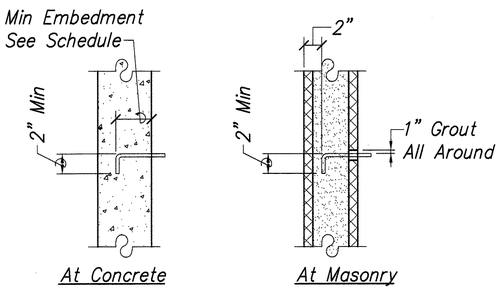


Notes:

1. Control joint shall be continuous vertical line from top of footing to top of wall.
2. All horizontal reinforcing shall be discontinuous across control joints. except bond course at the top of all walls

CONTROL JOINT FOR CMU WALLS — 3 S0.05 S0.05

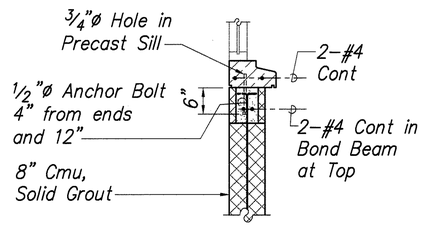
Not To Scale



EMBEDMENT SCHEDULE	
BOLT DIAMETER	MINIMUM EMBEDMENT
1/2"	4"
5/8"	5"
3/4"	6"
7/8"	7"
1"	7"

TYPICAL ANCHOR BOLT DETAIL — 4 S0.05 S0.05

Not To Scale



Note:
See Architectural Drawings for Size, Reveal, Drip, Etc of Sill

TYPICAL PRECAST CONCRETE SILL DETAIL — 5 S0.05 S0.05

Not To Scale

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No. 6818-S
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

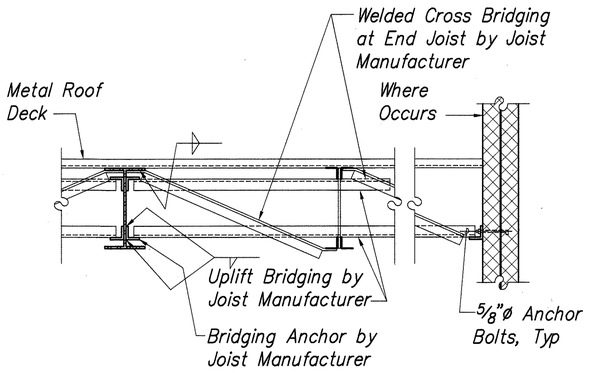
TYPICAL DETAILS

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S0.05 OF 150 SHEETS

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	80	150



TYPICAL UPLIFT BRIDGING CONNECTION DETAIL (1 / S0.07 | S0.07)

Not To Scale

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

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CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

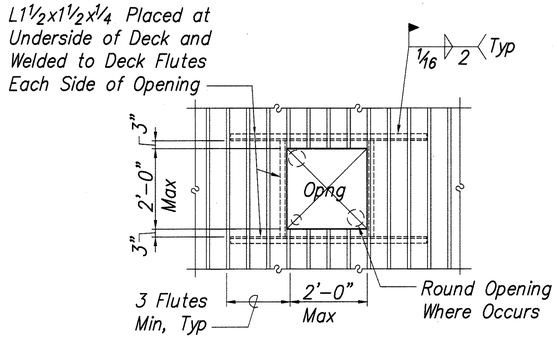
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

TYPICAL STEEL JOIST DETAILS

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S0.07 **OF** 150 **SHEETS**

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	81	150



Opening at Metal Roof Deck

Notes:
1. Reinforcing is not Required for Holes Less than 6" Inches in Diameter and Cutting no More than 1 Web.

TYPICAL OPENING AT METAL ROOF DECK DETAIL 1 S0.08 | S0.08

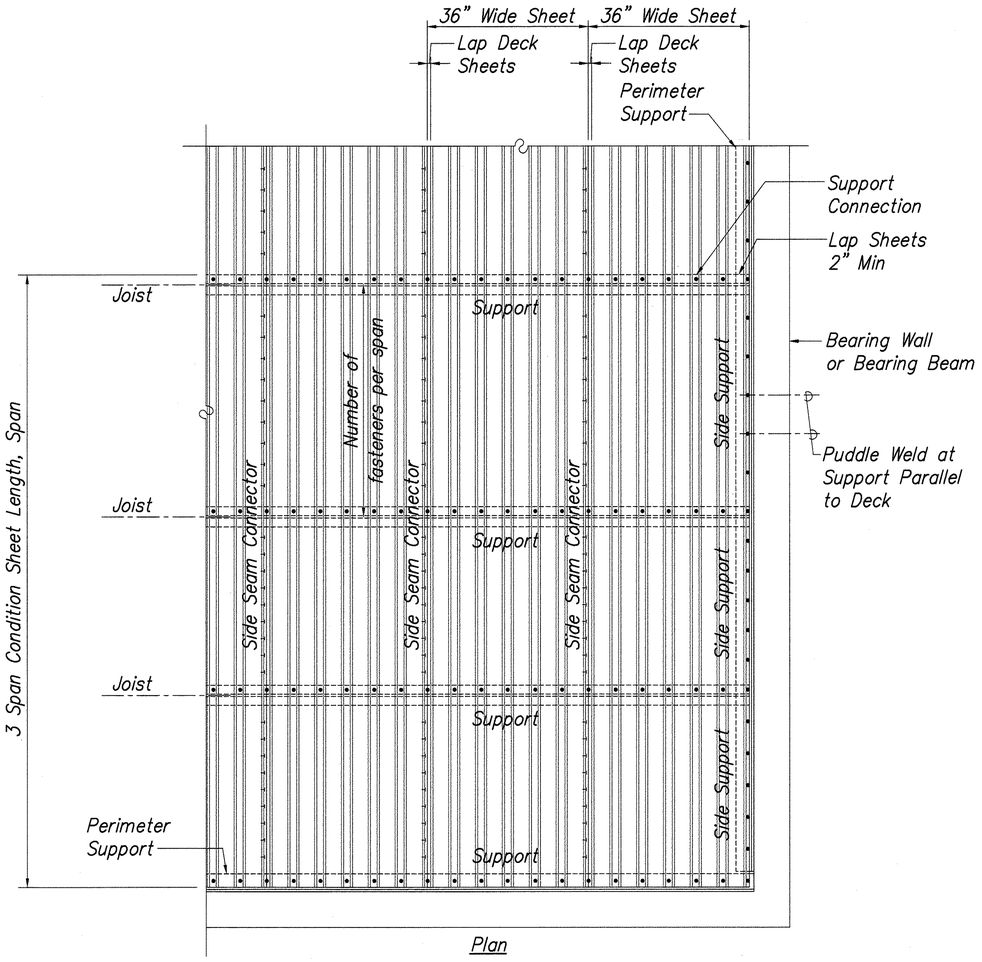
Not To Scale

DIAPHRAGM CONNECTION			
DECK MARK	AT SUPPORT PER 36" SHEET WIDTH	SIDE SEAM CONNECTOR	AT SUPPORT PARALLEL TO DECK
(A)	7–5/8" Puddle Weld	9–#10 Tek Screws	5/8" Puddle Weld at 10"
(B)	5–5/8" Puddle Weld	6–#10 Tek Screws	5/8" Puddle Weld at 12"
(C)	3–5/8" Puddle Weld	4–#10 Tek Screws	5/8" Puddle Weld at 12"

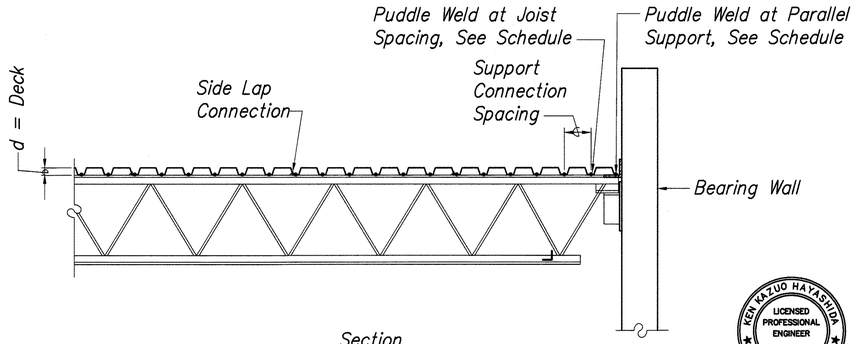
Note:
All deck shall be 1½ Type B–22 Ga Vulcraft deck or Equivilent. Use 3 span condition and 36" wide sheet.

ROOF DECK DIAPHRAGM CONNECTION 2 S0.08 | S0.08

Not To Scale



Plan



Section

ROOF DECK DIAPHRAGM CONNECTION 3 S0.08 | S0.08

Not To Scale

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CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

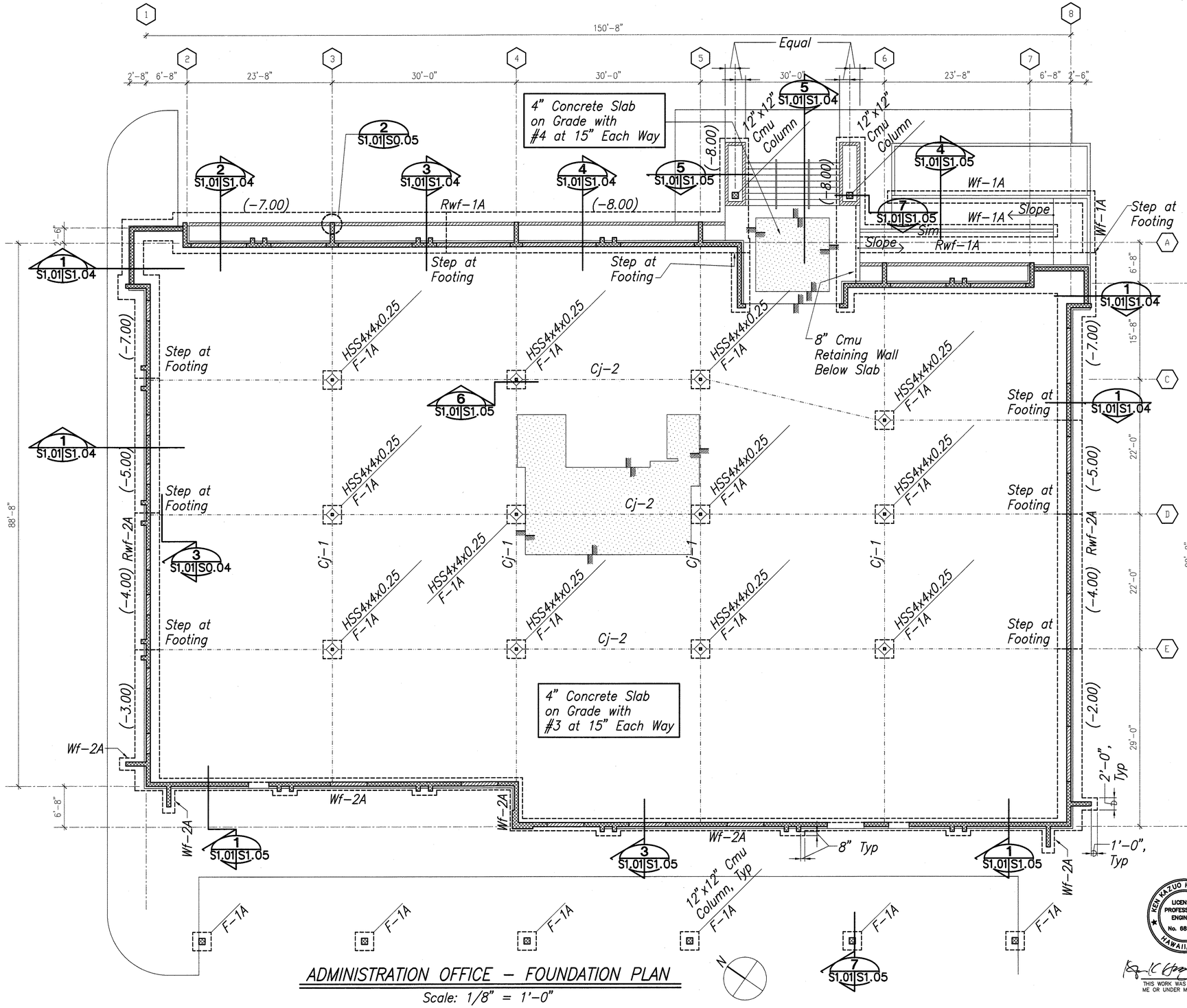
TYPICAL METAL DECK DETAILS

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S0.08 OF 150 SHEETS

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	82	150



ADMINISTRATION OFFICE – FOUNDATION PLAN

Scale: 1/8" = 1'-0"

Legend:

Wf–1A	Indicates wall footing type, See footing schedule on sheet S1.05
F–1A	Indicates column footing type, See footing schedule on sheet S1.05
Rwf–1A	Indicates retaining wall footing type, See footing schedule on sheet S1.05
Cj–1	Indicates slab joint type, See sheet 2/S0.03
Cmu–1	Indicates cmu wall type, See wall schedule 1/S0.05
	Indicates full height cmu walls
	Indicates partial height cmu walls
	Indicates change in slab elevation, See Architectural Drawings
	Indicates depressed slab See Arch Dwgs
(–2.00)	Indicates Top of Footing Elevation

Notes:

1. Reference Elevation 0.00 = Finished Floor Elevation = (297.20) Civil Elevation
2. Top of footings shall be 1'–0" below the lower of the reference elevation or lowest adjacent finished grade, uon.
3. See Architectural Drawings for dimensions not shown on Structural Drawings.
4. See foundation notes on sheet S0.01 for subgrade and slab on grade preparation.
5. Thickness of slabs on grade shown is minimum and shall be maintained at all sloped and depressed areas.
6. See Civil, Architectural, Mechanical and Electrical Drawings for extent and locations of depressed slabs, slopes to drain, finish floor elevations and equipment pads.
7. See architectural Drawings for fireproofing and waterproofing requirements and details
8. All Cmu Walls Shall be CMU–1, UNO 8" Grouted Solid.

0' 4' 8' 16' 24'
1/8" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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NOTE BOOK	TRACED BY	
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CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

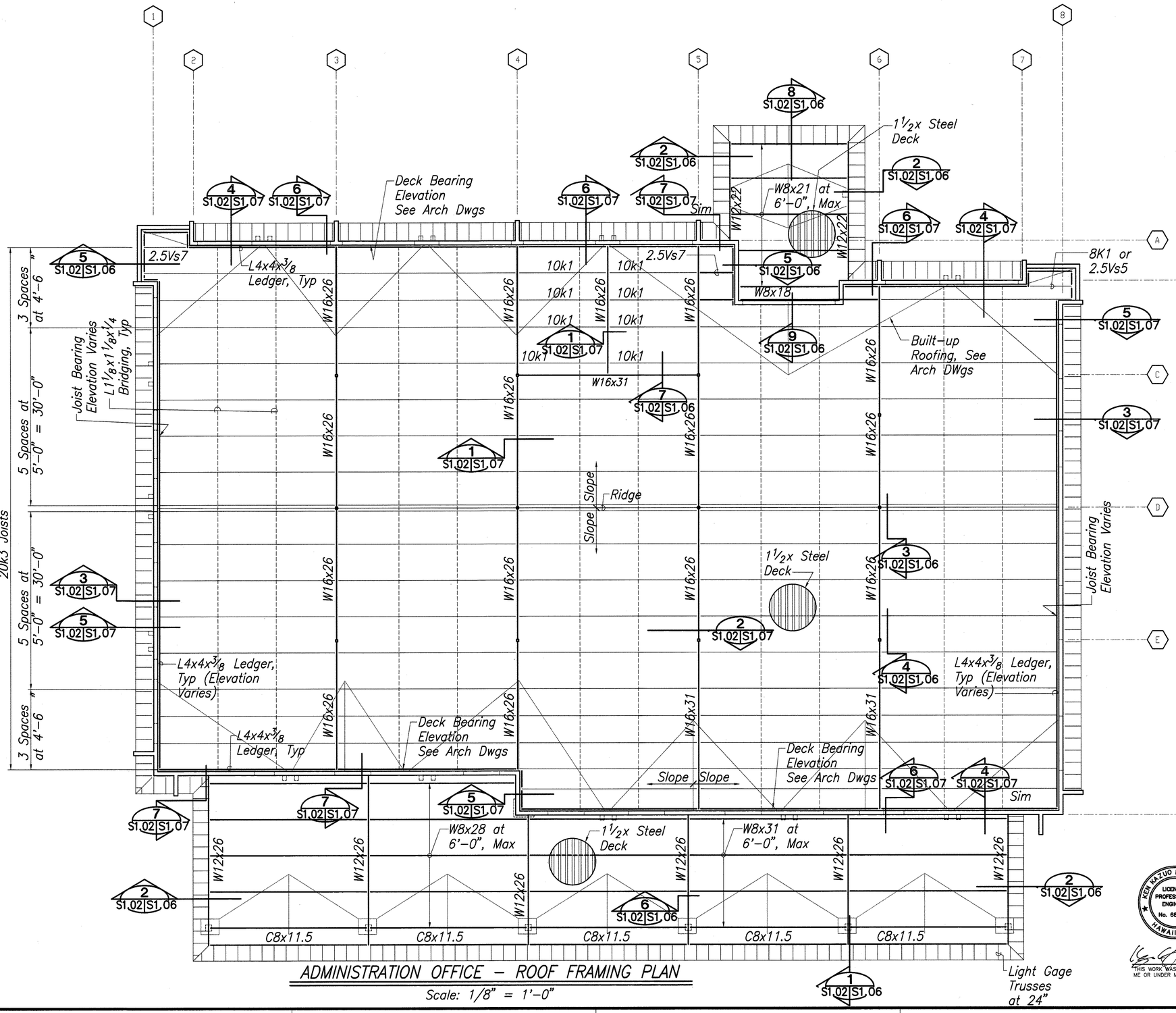
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

ADMINISTRATION OFFICE - FOUNDATION PLAN

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S1.01 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	83	150

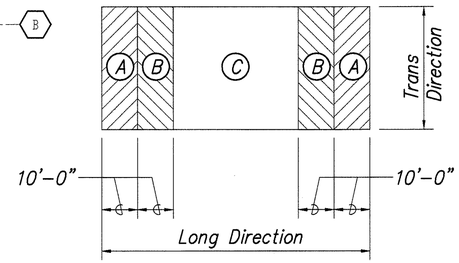


ADMINISTRATION OFFICE – ROOF FRAMING PLAN

Scale: 1/8" = 1'-0"

Notes:

1. *See Schedule on sheet S0.08 for deck weld requirements.*
2. *See Architectural Drawings for Top of Wall elevations.*
3. *All bridging details, See joist manufacturer's standard details and detail 1/S0.07*
4. *See Architectural drawings for all required dimensions and balance of information.*
5. *See Architectural drawings for all deck bearing elevations and top of wall parapets.*



KEY PLAN DIAPHRAGM CONNECTION TO SUPPORTING MEMBERS SEE 2/S0.08

0' 4' 8' 16' 24'

1/8" = 1'-0"

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

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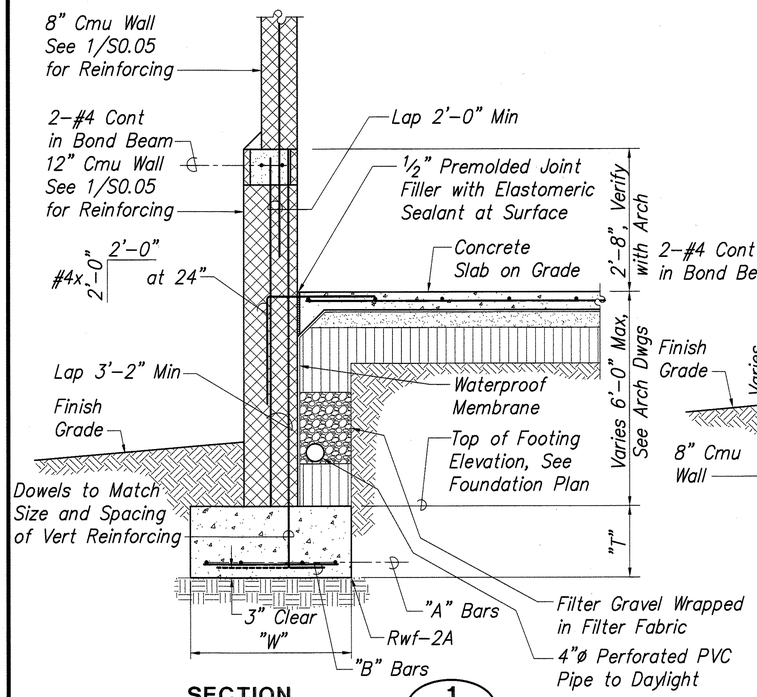
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

ADMINISTRATION OFFICE - ROOF FRAMING PLAN

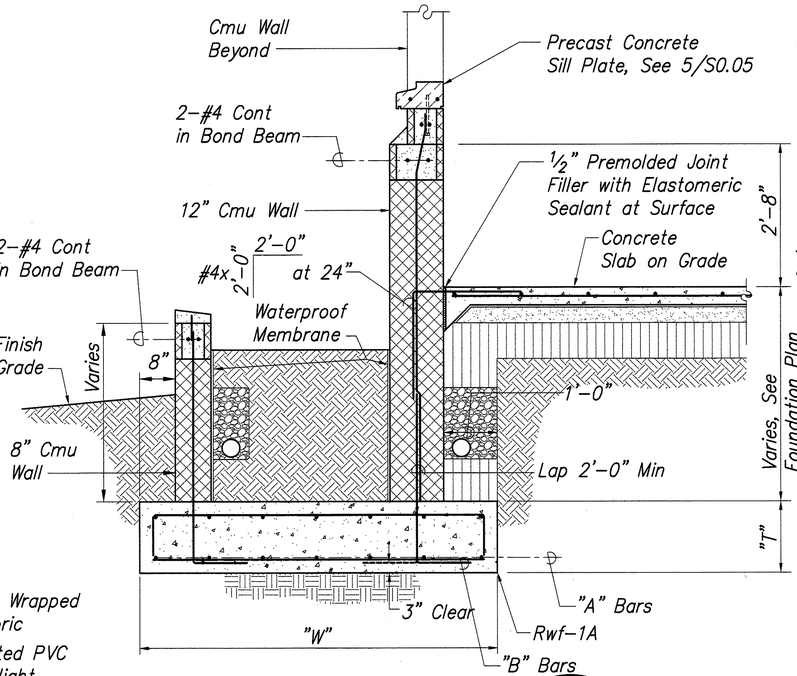
SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S1.02 OF 150 SHEETS

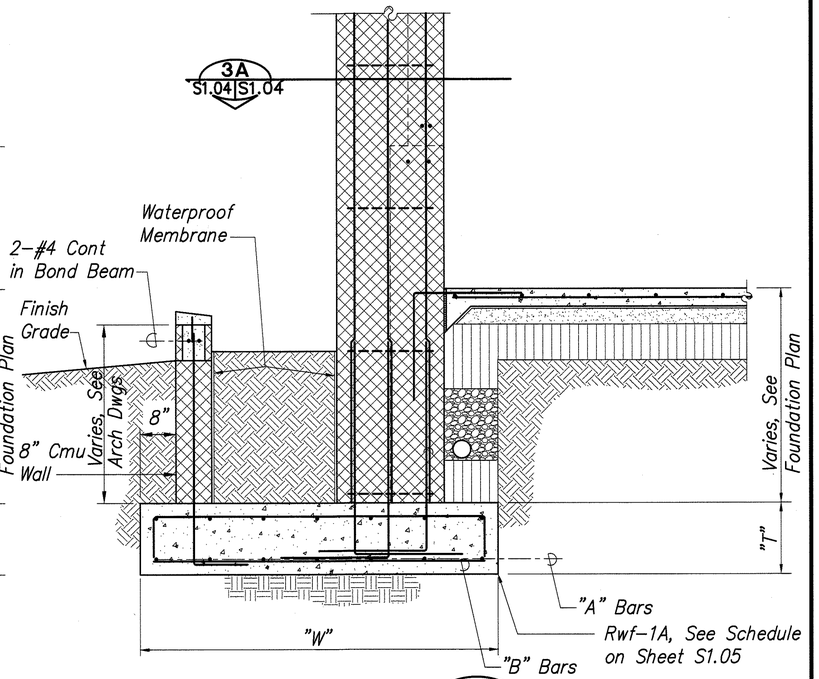
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	84	150



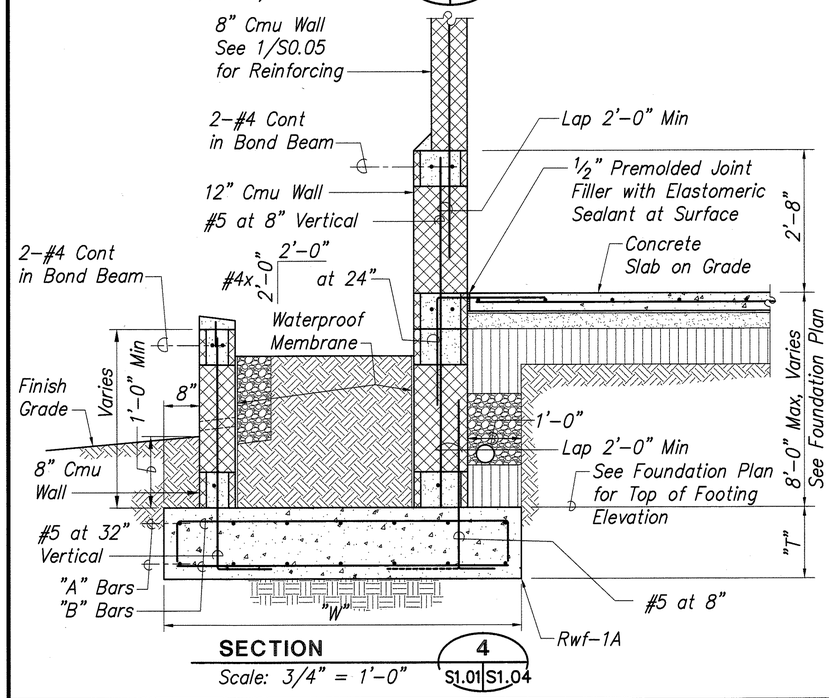
SECTION 1
Scale: 3/4" = 1'-0" S1.01|S1.04



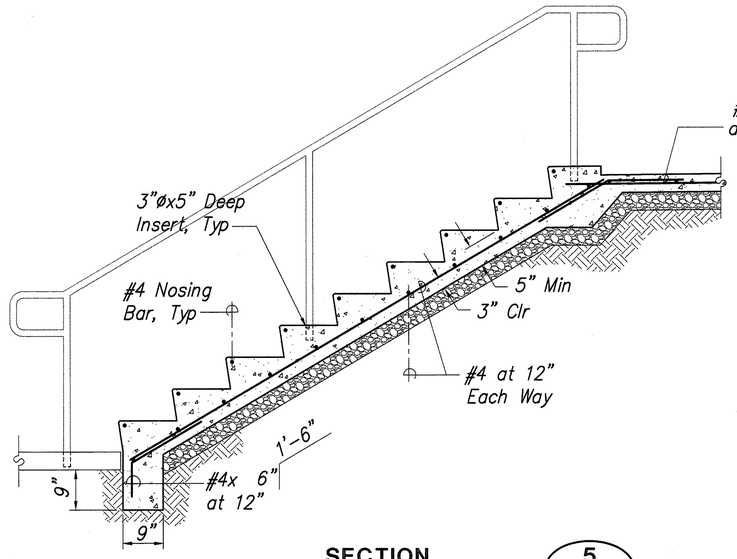
SECTION 2
Scale: 3/4" = 1'-0" S1.01|S1.04



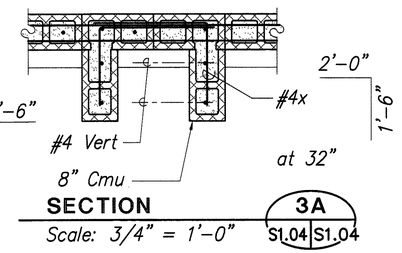
SECTION 3
Scale: 3/4" = 1'-0" S1.01|S1.04



SECTION 4
Scale: 3/4" = 1'-0" S1.01|S1.04



SECTION 5
Scale: 3/4" = 1'-0" S1.01|S1.04



SECTION 3A
Scale: 3/4" = 1'-0" S1.04|S1.04

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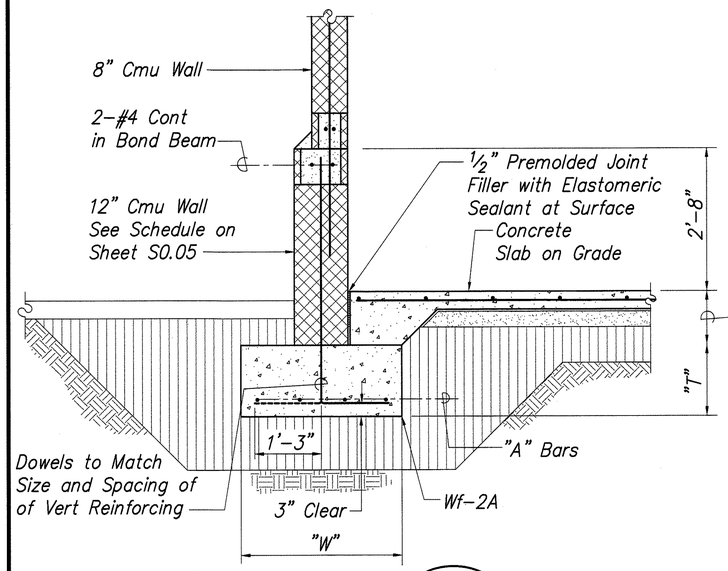
ADMINISTRATION OFFICE - FOUNDATION SECTIONS

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S1.04 OF 150 SHEETS

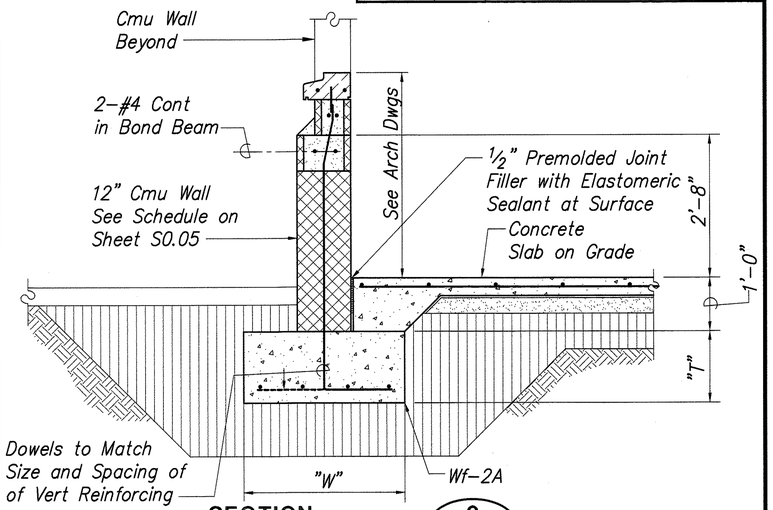
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	85	150



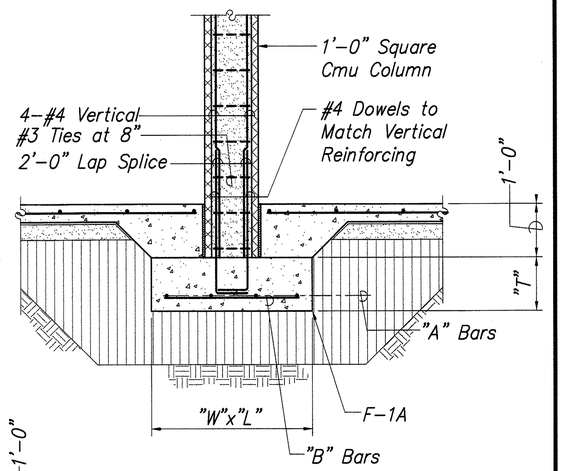
SECTION 1
Scale: 3/4" = 1'–0" S1.01|S1.05

FOOTING SCHEDULE						
MARK	"T" THICKNESS	"W" WIDTH	"L" LENGTH	REINFORCING "A" BARS	REINFORCING "B" BARS	REMARK
F–1A	1'–0"	3'–0"	3'–0"	4–#5	4–#5	See 6,7/S1.05
Wf–1A	1'–0"	2'–0"	Cont	3–#4	*	See 4/S1.05
Wf–2A	1'–0"	3'–0"	Cont	4–#5	See 1/S1.05	See 1/S1.05
Ts–1A	1'–0"	1'–0"	Cont	2–#4	*	See 6/S3.04
Rwf–1A	1'–4"	6'–8"	Cont	6–#5 T&B	#4 at 16"	See 2/S1.04
Rwf–2A	1'–4"	3'–0"	Cont	4–#5	#4 at 16"	See 1/S1.04

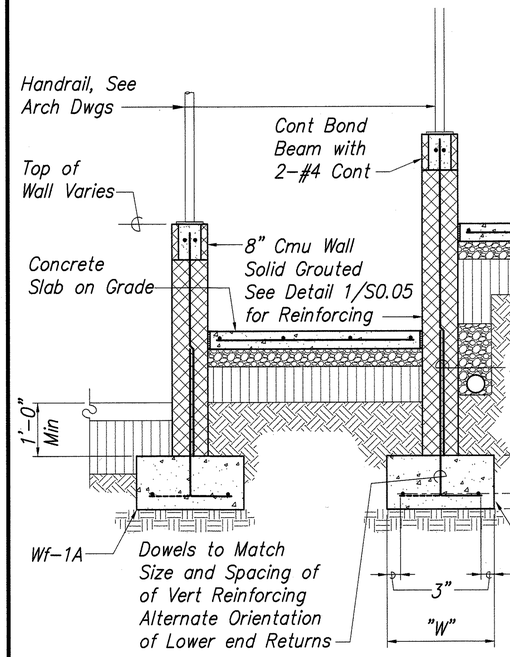
FOOTING SCHEDULE 2
Scale: 3/4" = 1'–0" S1.01|S1.05



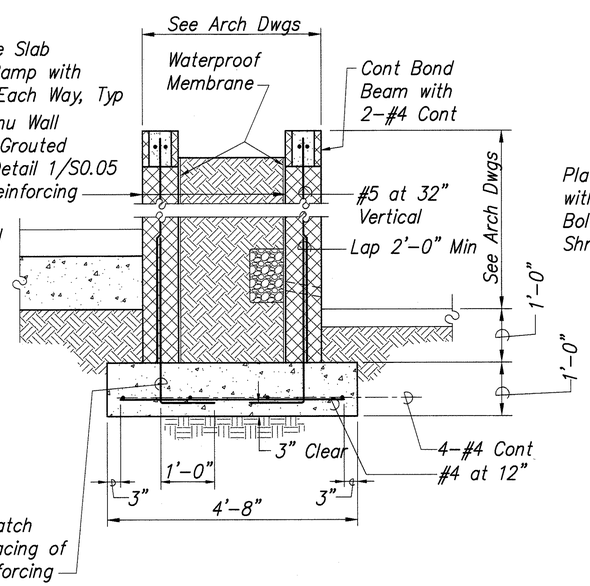
SECTION 3
Scale: 3/4" = 1'–0" S1.01|S1.05



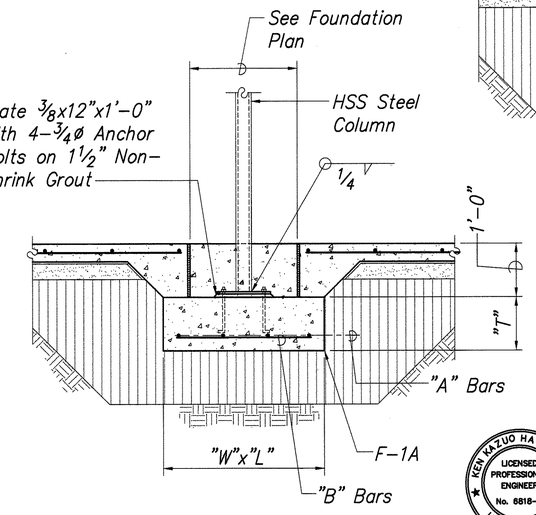
SECTION 7
Scale: 3/4" = 1'–0" S1.01|S1.05



SECTION AT RAMP 4
Scale: 3/4" = 1'–0" S1.01|S1.05



ENTRY PLANTER 5
Scale: 3/4" = 1'–0" S1.01|S1.05



SECTION 6
Scale: 3/4" = 1'–0" S1.01|S1.05

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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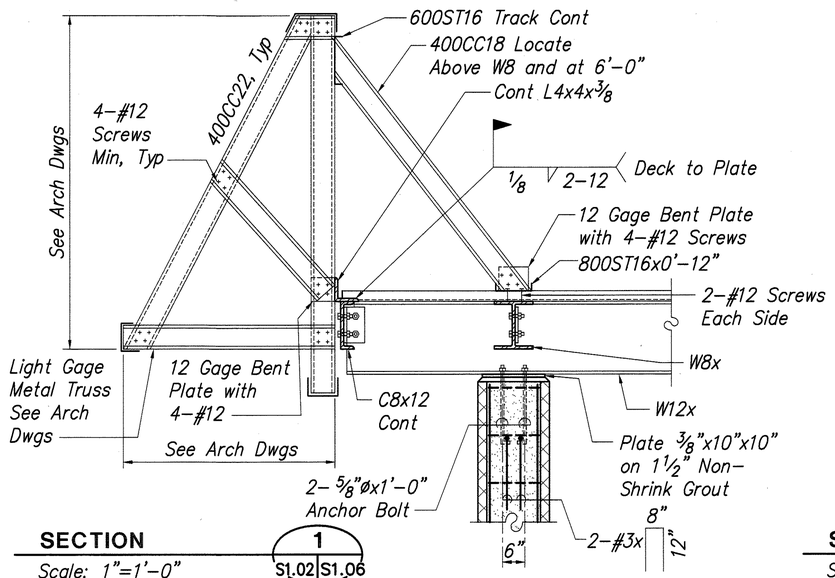
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

ADMINISTRATION OFFICE - FOUNDATION SECTIONS

SCALE: AS NOTED DATE: MAR 30, 01

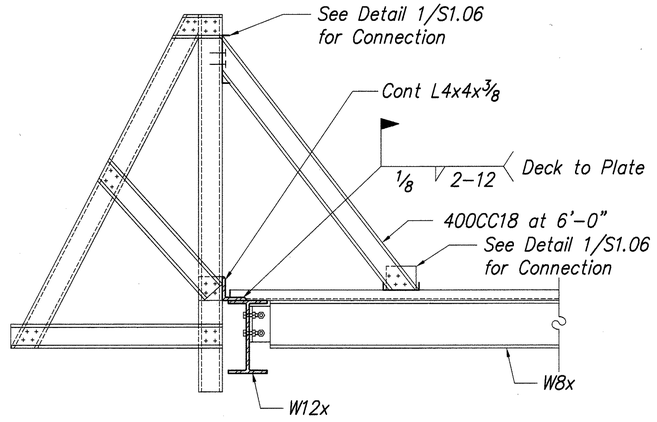
SHEET NO. S1.05 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	86	150



SECTION 1 — S1.02 | S1.06

Scale: 1"=1'-0"



SECTION 2 — S1.02 | S1.06

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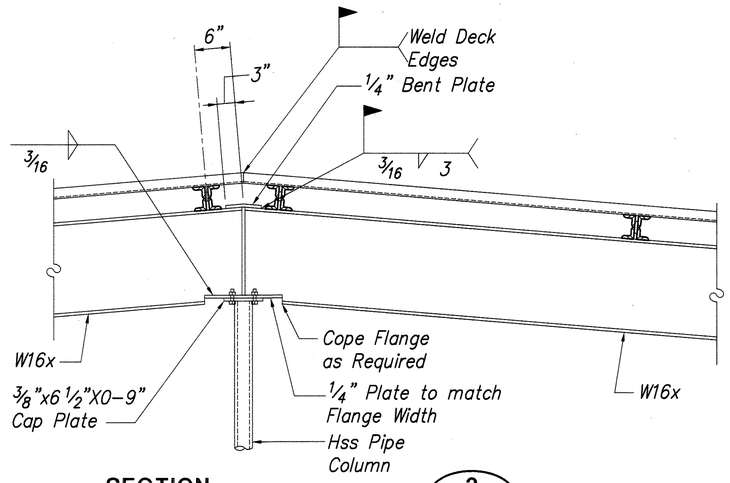

SECTION 3 — S1.02 | S1.06

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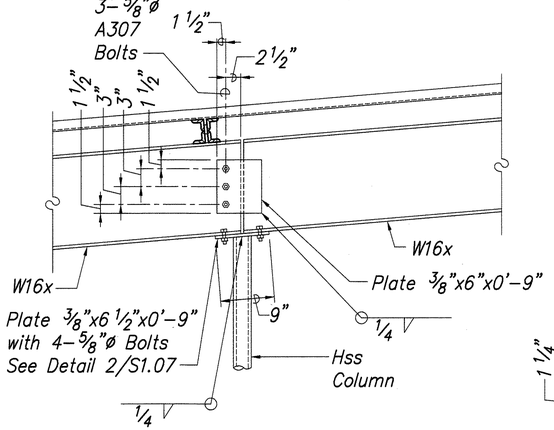
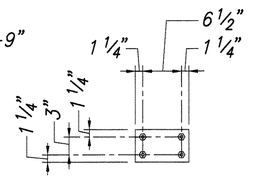
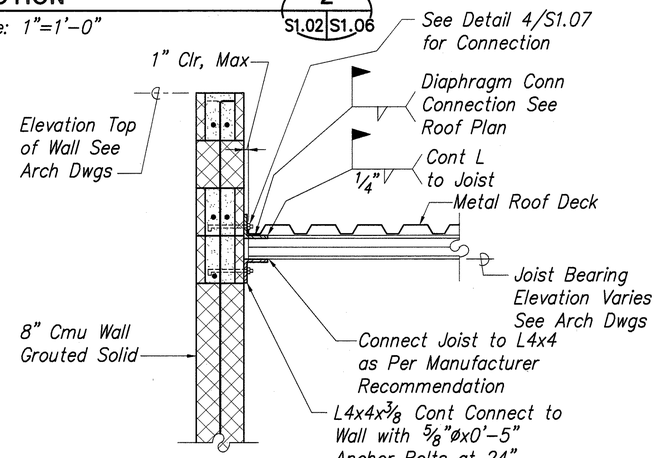


SECTION 4 — S1.02 | S1.06

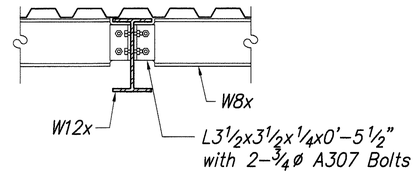
Scale: 1"=1'-0"





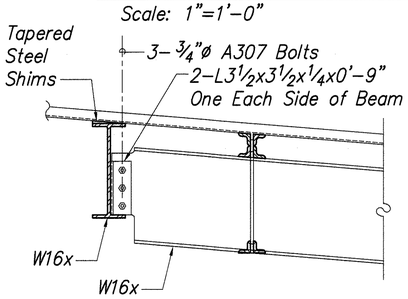
SECTION 5 — S1.02 | S1.06

Scale: 1"=1'-0"



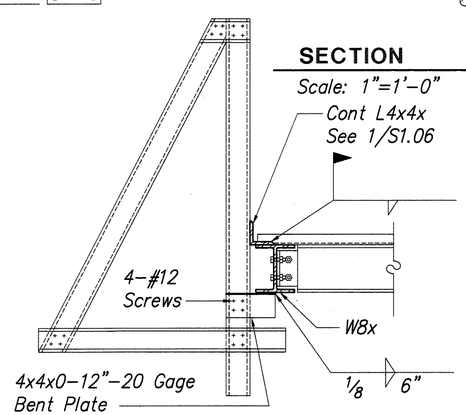
SECTION 6 — S1.02 | S1.06

Scale: 1"=1'-0"



SECTION 7 — S1.02 | S1.06

Scale: 1"=1'-0"



SECTION 8 — S1.02 | S1.06

Scale: 1"=1'-0"

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DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

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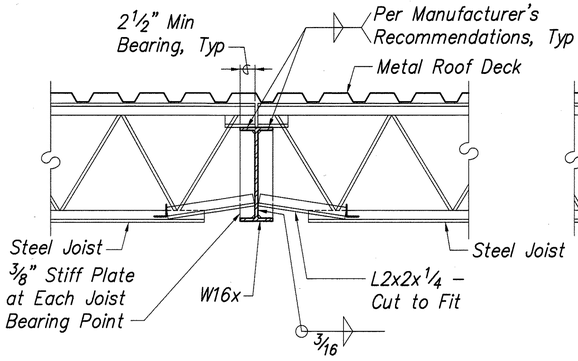
ADMINISTRATION OFFICE - ROOF SECTIONS

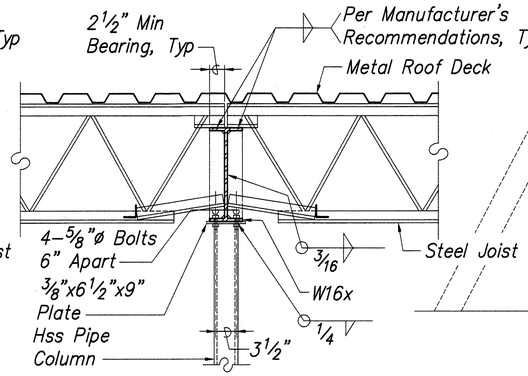
SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S1.06 OF 150 SHEETS

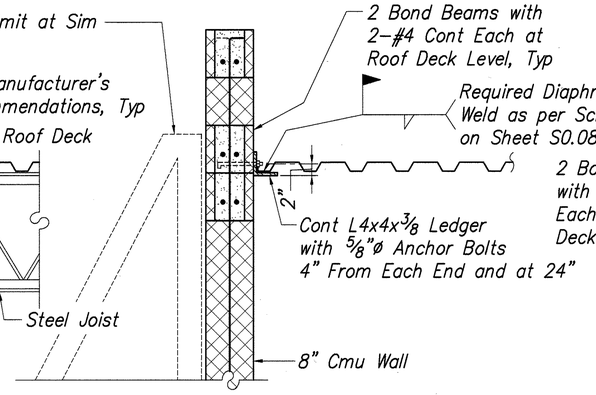
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	87	150



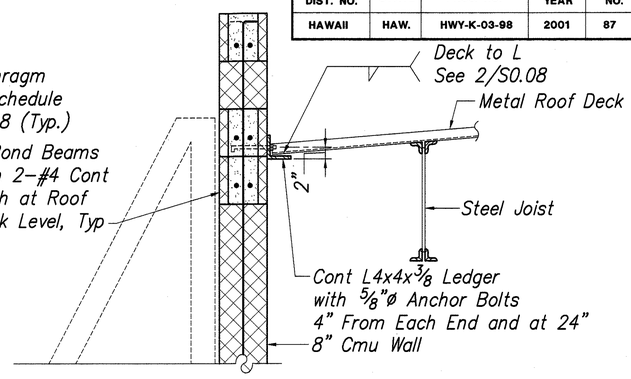
SECTION 1 (S1.02 | S1.07)
Scale: 1"=1'-0"



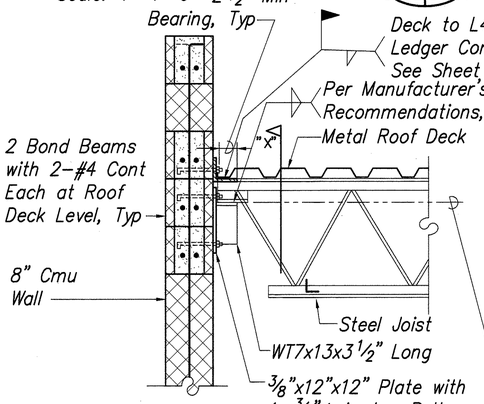
SECTION 2 (S1.02 | S1.07)
Scale: 1"=1'-0"



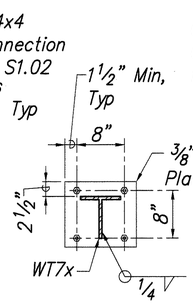
SECTION 3 (S1.02 | S1.07) (S2.02 | S1.07) (S4.01 | S1.07)
Scale: 1"=1'-0"

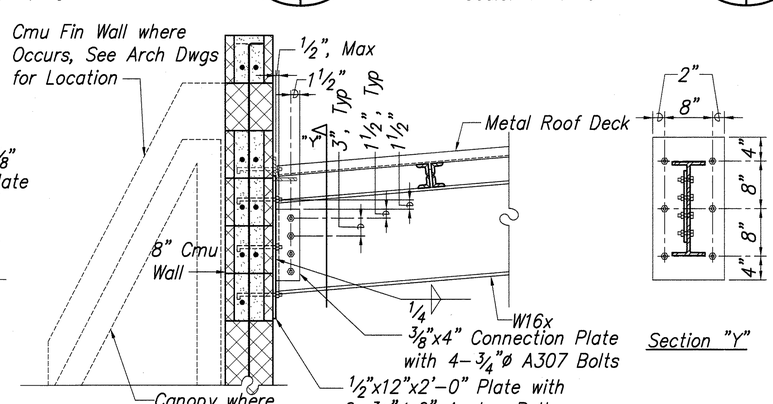


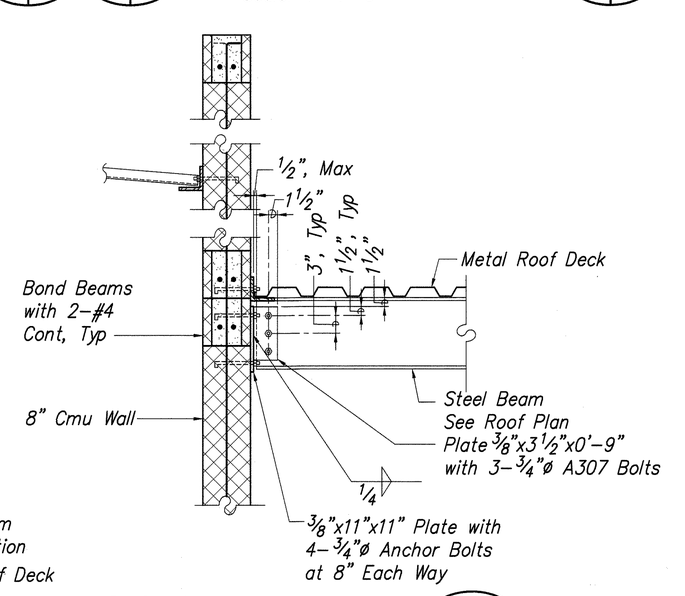
SECTION 4 (S1.02 | S1.07)
Scale: 1"=1'-0"



SECTION 5 (S1.02 | S1.07)
Scale: 1"=1'-0"

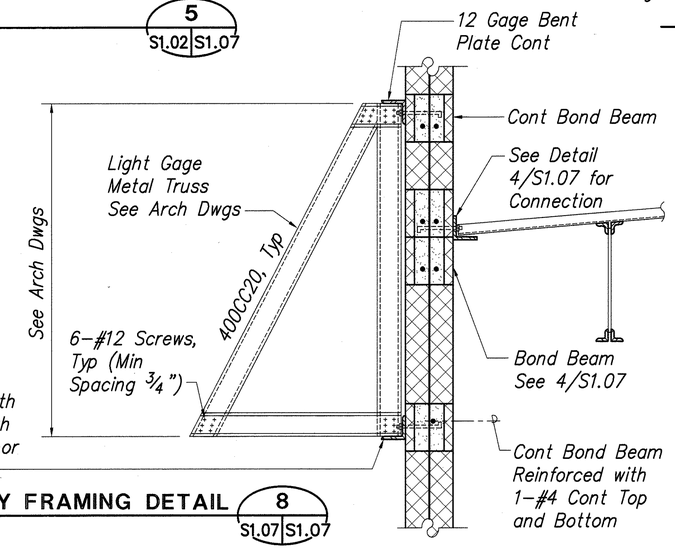




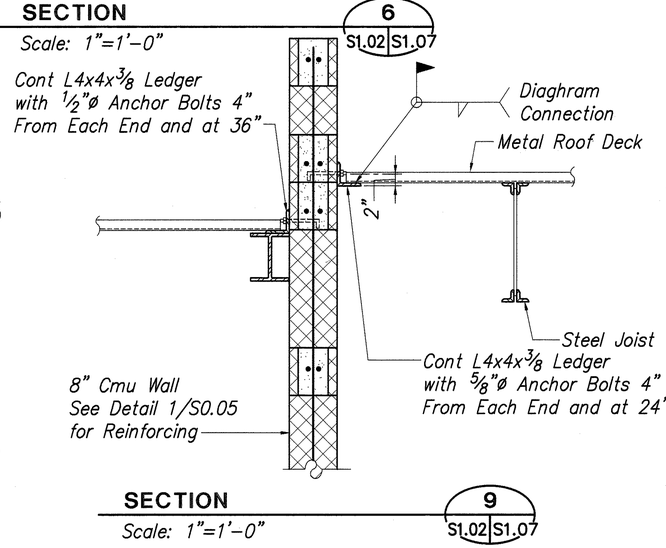


SECTION 6 (S1.02 | S1.07)
Scale: 1"=1'-0"

SECTION 7 (S1.02 | S1.07)
Scale: 1"=1'-0"



TYPICAL CANOPY FRAMING DETAIL 8 (S1.07 | S1.07)
Scale: 1"=1'-0"



SECTION 9 (S1.02 | S1.07)
Scale: 1"=1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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	TRACED BY	
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	QUANTITIES BY	
No.	CHECKED BY	

KEN KAZUO HAYASHIDA
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

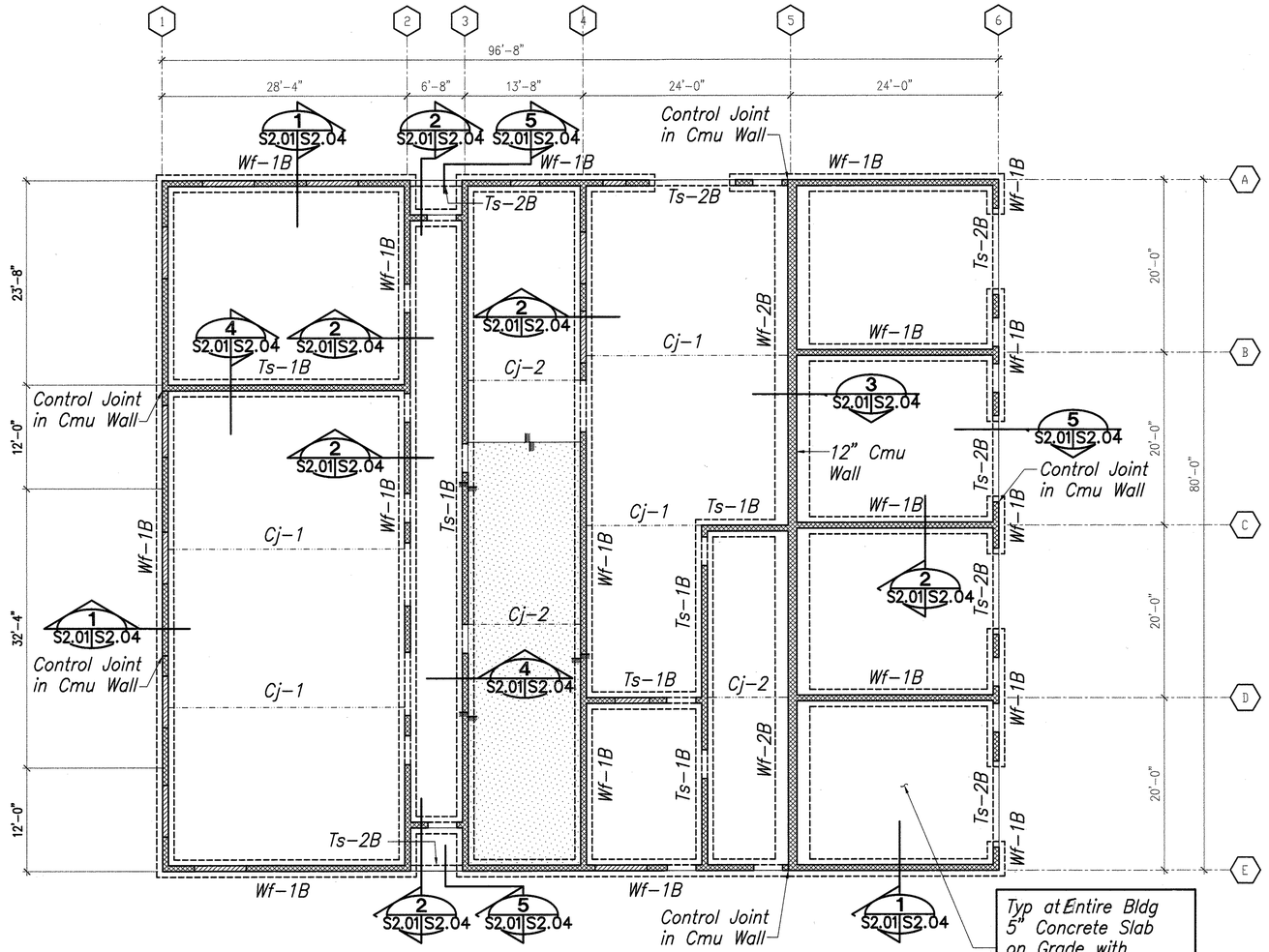
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

ADMINISTRATION OFFICE - ROOF SECTIONS

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S1.07 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	88	150



MAINTENANCE BUILDING – FOUNDATION PLAN

Scale: 1/8" = 1'-0"

Notes:

1. *Reference Elevation 0.00 = Finished Floor Elevation = (296.2 Civil Drawings)*
2. *Top of footings shall be 1'-0" below the lower of the reference elevation or lowest adjacent finished grade, uon.*
3. *See Architectural Drawings for dimensions not shown on Structural Drawings.*
4. *See foundation notes on sheet S0.01 for subgrade and slab on grade preparation.*
5. *Thickness of slabs on grade shown is minimum and shall be maintained at all sloped and depressed areas.*
6. *See Civil, Architectural, Mechanical and Electrical Drawings for extent and locations of depressed slabs, slopes to drain, finish floor elevations and equipment pads.*
7. *See Architectural Drawings for fireproofing and waterproofing requirements and details*
8. *All cmu walls shall be 8" CMU-1 or 12" CMU-2 solid grouted for reinforcing. See Table 1/S0.05 and foundation details.*
9. *See sheet S0.05 for all masonry typical details and reinforcing and joints.*

Legend:

Wf-1B	Indicates wall footing type, See footing schedule on sheet S2.04
Ts-1	Indicates thickened slab type, See footing schedule on sheet S2.04
Cj-1	Indicates slab joint type, See sheet 2/S0.04

- Indicates full height cmu walls
- Indicates partial height cmu walls
- Indicates change in slab elevation, See details
- Indicates drop in slab elevation

0' 4' 8' 16' 24'
1/8" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
No.	DESIGNED BY	
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HIGHWAYS DIVISION

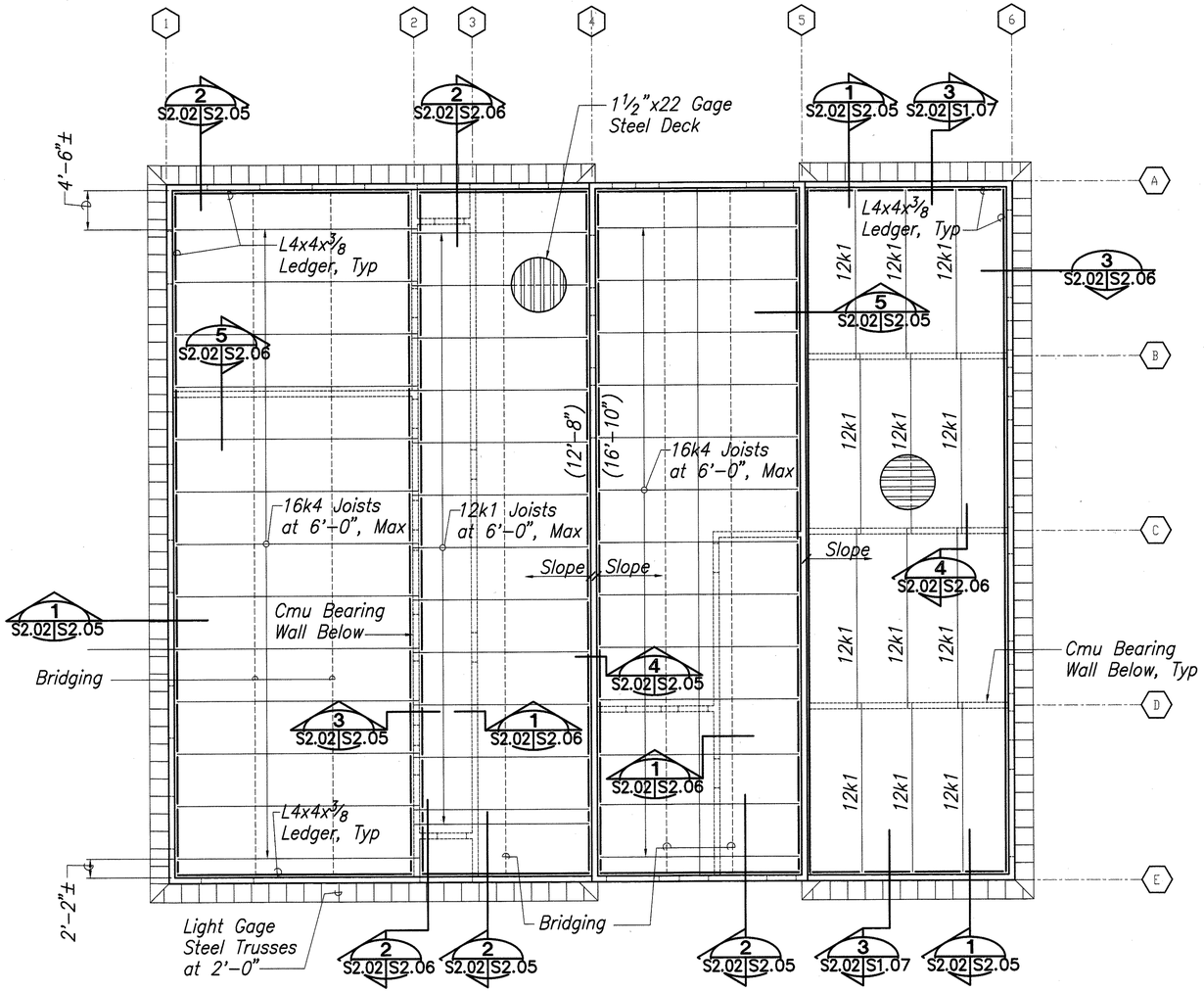
CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

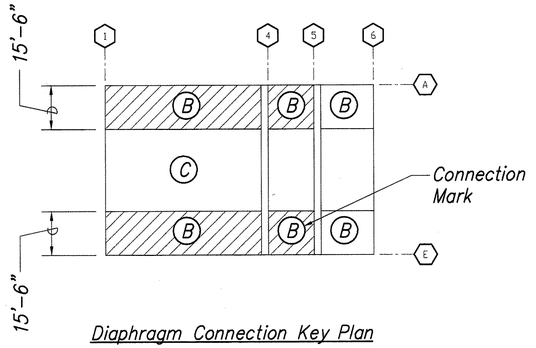
MAINTENANCE BUILDING - - FOUNDATION PLAN

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S2.01 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	89	150





Diaphragm Connection Key Plan

Note:
See S0.08 for Diaphragm Connection Details

MAINTENANCE BUILDING – ROOF FRAMING PLAN

Scale: 1/8" = 1'-0"

N

Legend:

- Indicates full height cmu walls
- Indicates cmu walls below
- Indicates opening in metal deck
- (0.00) Indicates deck bearing elevation reference to 0.00 top of slab-on-grade.

Notes:

1. See details on sheet S0.07 for typical bridging and deck details.
2. See sheet S0.08 for typical roof opening framing detail.
3. See sheet S0.08 for metal deck connection to support.
4. See Architectural Drawings for top of wall elevations.
5. See Architectural Drawings for all required dimensions and balance of information.
6. See Architectural Drawings for all deck bearing elevations and top of wall parapet.

ORIGINAL PLAN | NOTE BOOK | No. | DATE
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0' 4' 8' 16' 24'
1/8" = 1'-0"

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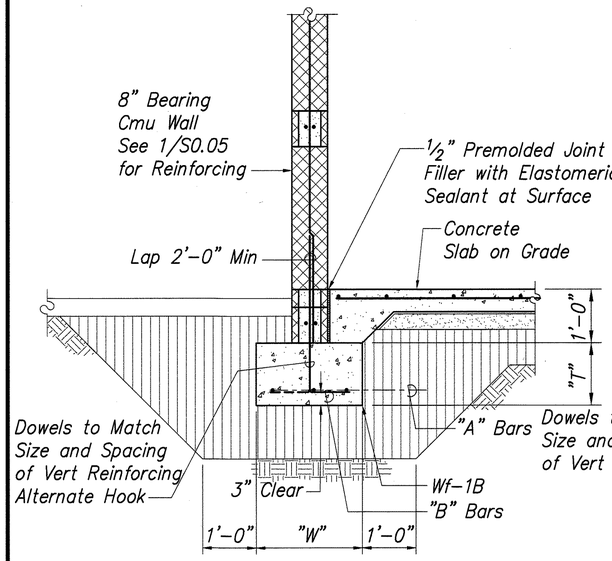
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

MAINTENANCE BUILDING - - ROOF FRAMING PLAN

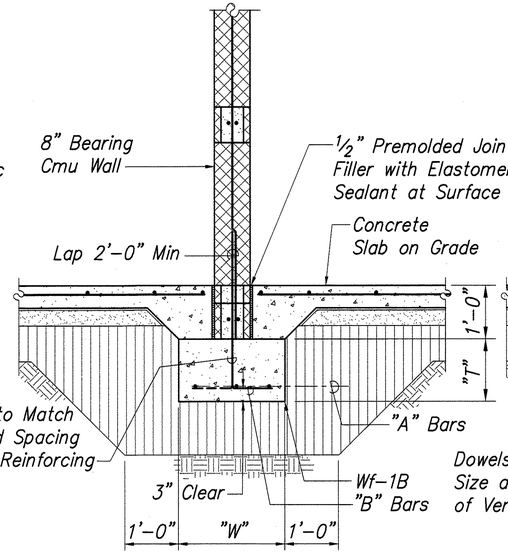
SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S2.02 OF 150 SHEETS

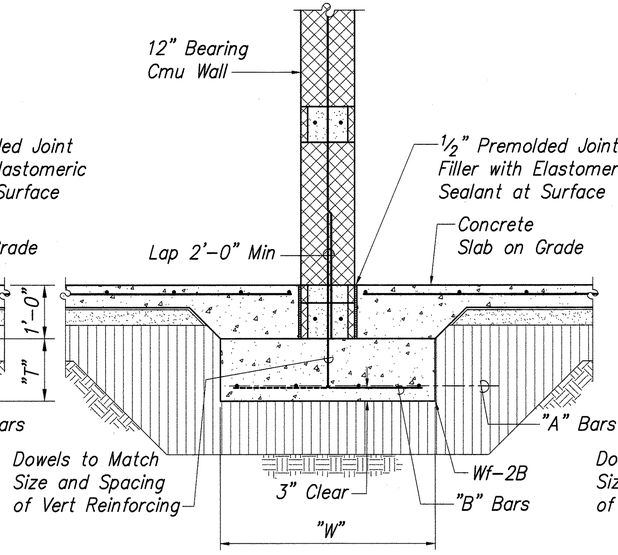
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	90	150



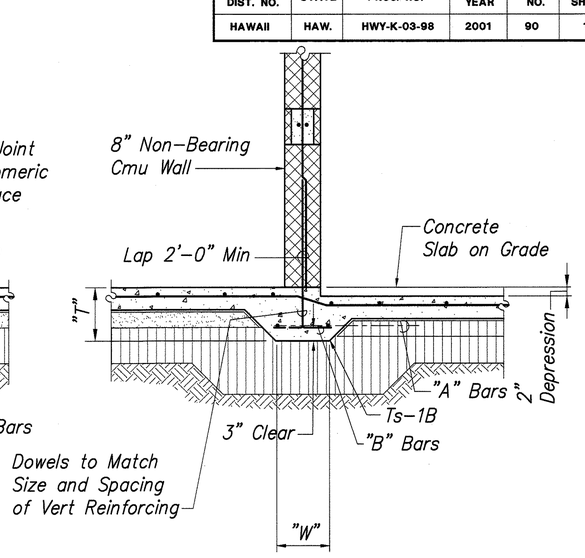
SECTION 1 — Scale: 3/4" = 1'-0" — S2.01 | S2.04 — 1 — S4.01 | S2.04



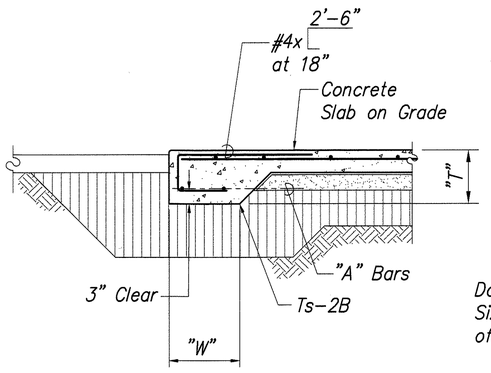
SECTION 2 — Scale: 3/4" = 1'-0" — S2.01 | S2.04



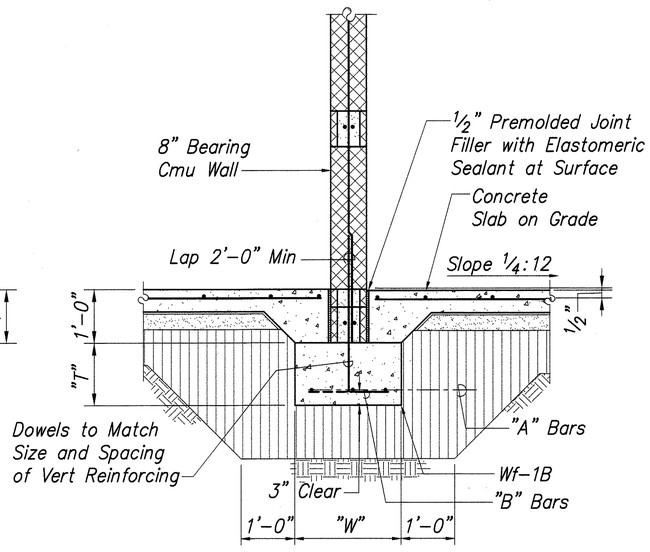
SECTION 3 — Scale: 3/4" = 1'-0" — S2.01 | S2.04



SECTION 4 — Scale: 3/4" = 1'-0" — S2.01 | S2.04 — 4 — S4.01 | S2.04



SECTION 5 — Scale: 3/4" = 1'-0" — S2.01 | S2.04 — 5 — S4.01 | S2.04



SECTION 6 — Scale: 3/4" = 1'-0" — S2.01 | S2.04

FOOTING SCHEDULE

MARK	"T" THICKNESS	"W" WIDTH	"L" LENGTH	REINFORCING "A" BARS	REINFORCING "B" BARS	REMARKS
Wf-1B	1'-0"	2'-0"	Cont	3-#4	Wall Dowels Bend	See 1,2/S2.04
Wf-2B	1'-0"	3'-0"	Cont	4-#4	Wall Dowels Bend	See 3/S2.04
Ts-1B	1'-0"	1'-0"	Cont	2-#4	Wall Dowels Bend	See 4/S2.04
Ts-2B	1'-0"	1'-0"	See Plan	2-#4	Wall Dowels Bend	See 5/S2.04

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

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

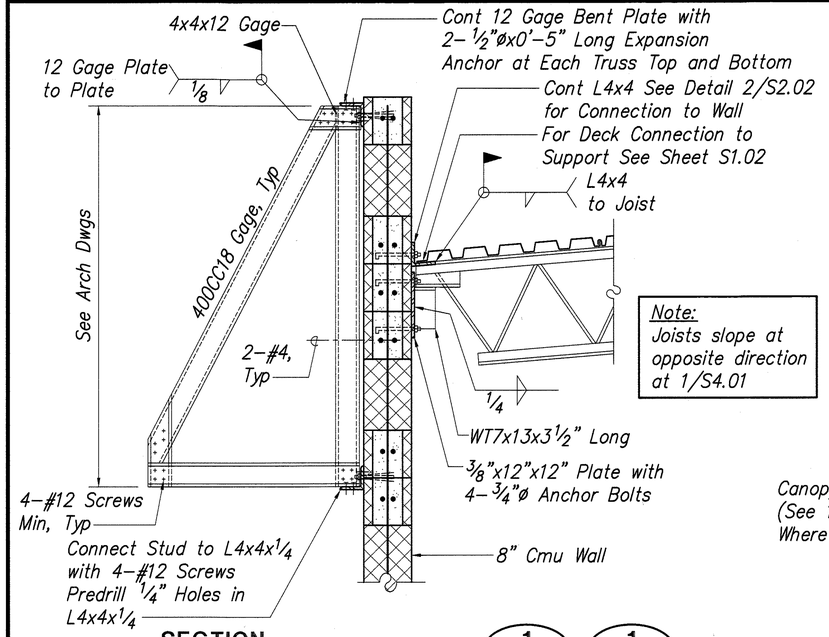
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

MAINTENANCE BUILDING - FOUNDATION SECTIONS

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S2.04 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	91	150



SECTION 1 S2.02|S2.05 1 S4.01|S2.05
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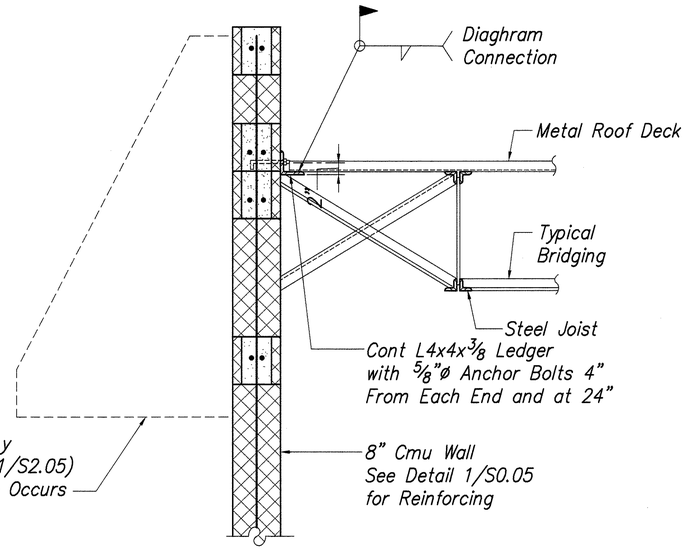

SECTION 2 S2.02|S2.05
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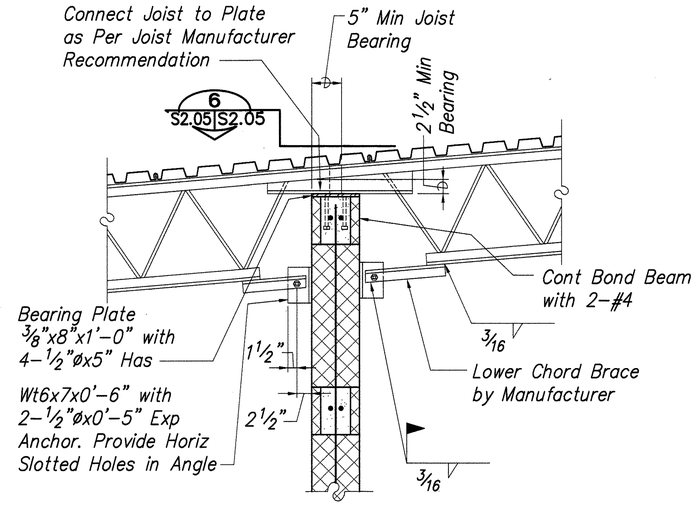

SECTION 3 S2.02|S2.05
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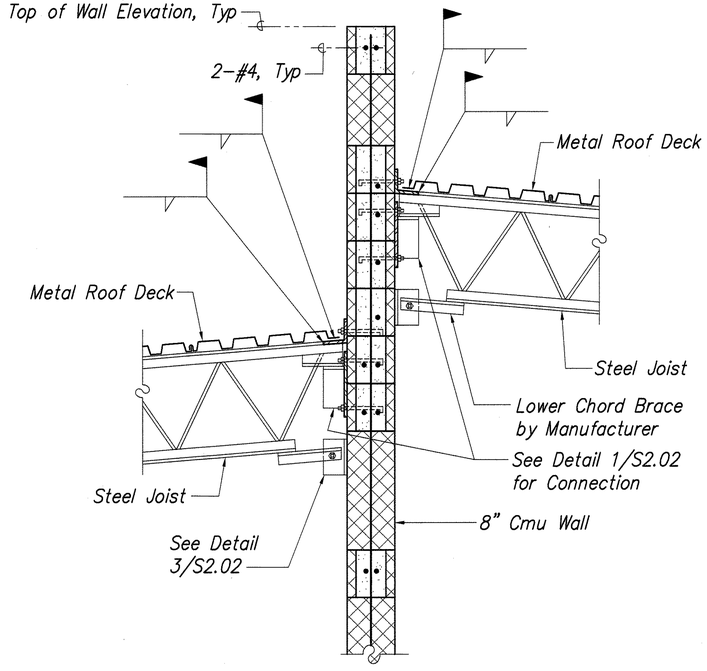
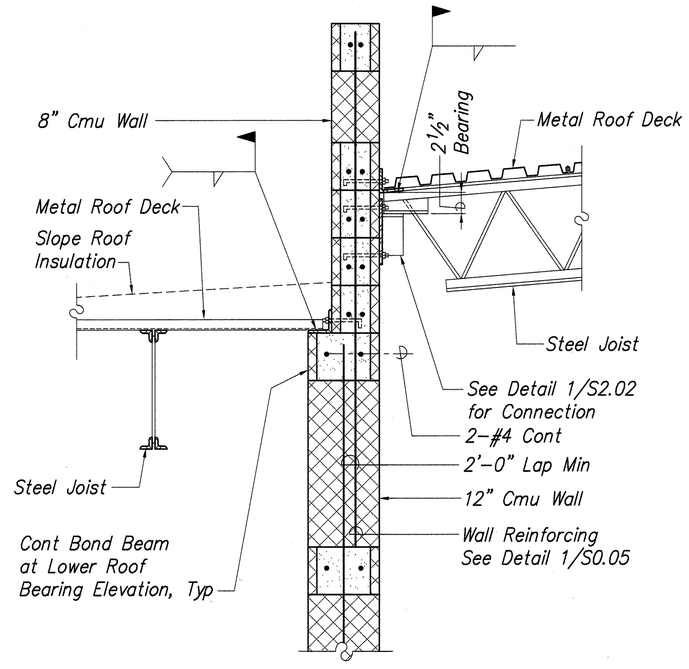


SECTION 4 S2.02|S2.05
Scale: 1"=1'–0"



SECTION 5 S2.02|S2.05
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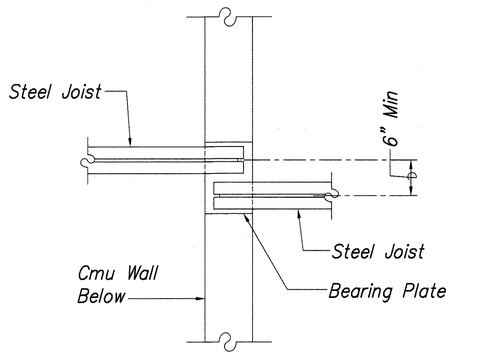

SECTION 6 S2.05|S2.05
Scale: 1"=1'–0"

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HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

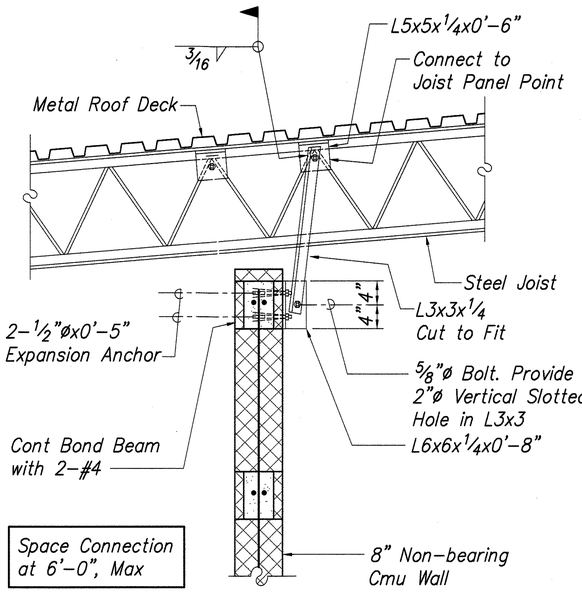
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

MAINTENANCE BUILDING - ROOF SECTIONS

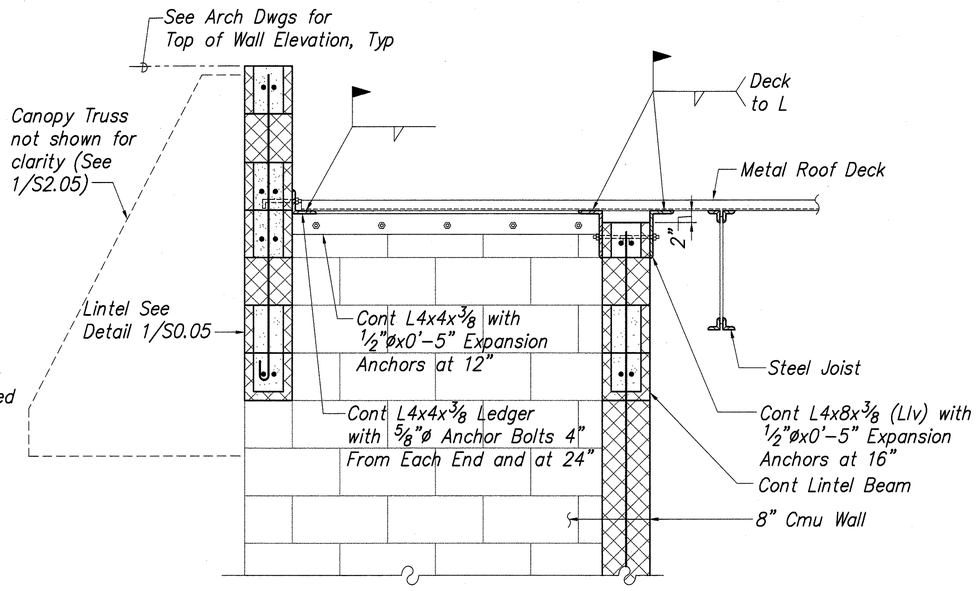
SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S2.05 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	92	150



SECTION 1 — S2.02 | S2.06
Scale: 1"=1'-0"



SECTION 2 — S2.02 | S2.06
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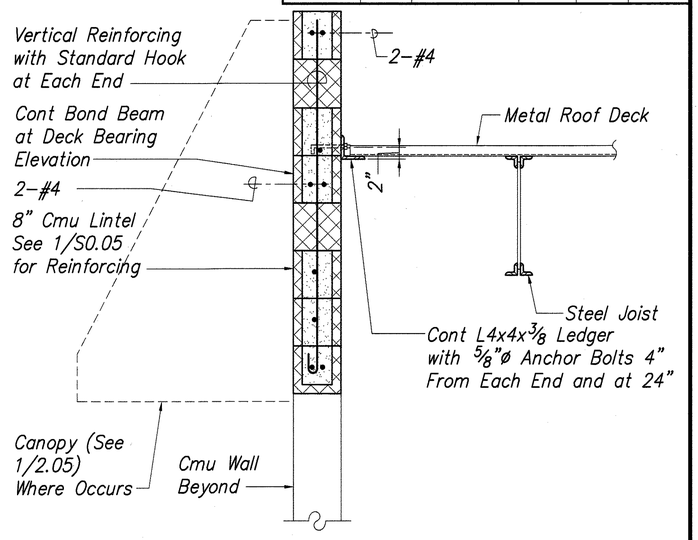
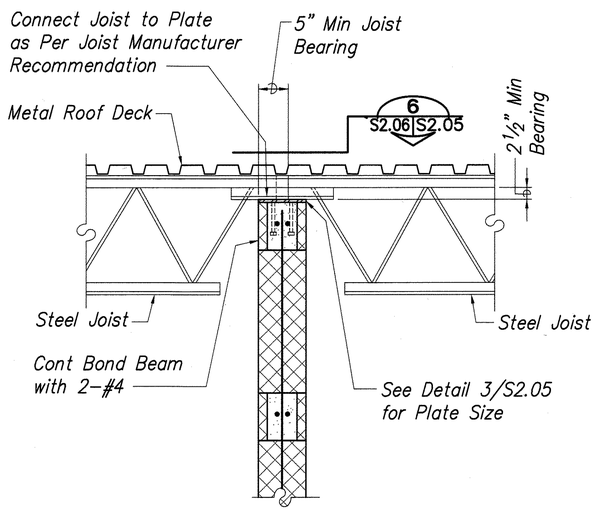


SECTION AT ROLL UP DOOR 3 — S2.02 | S2.06
Scale: 1"=1'-0"



SECTION 4 — S2.02 | S2.06
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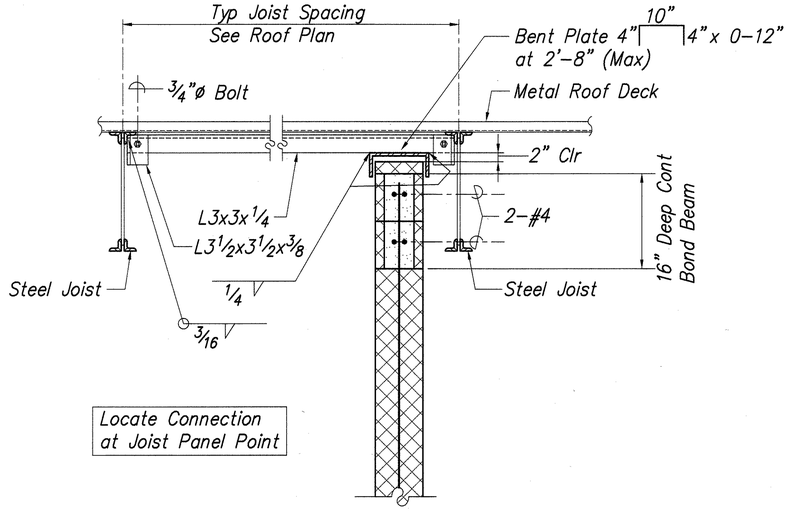

SECTION 5 — S2.02 | S2.06 | S4.01 | S2.06
Scale: 1"=1'-0"

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	CHECKED BY	

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HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

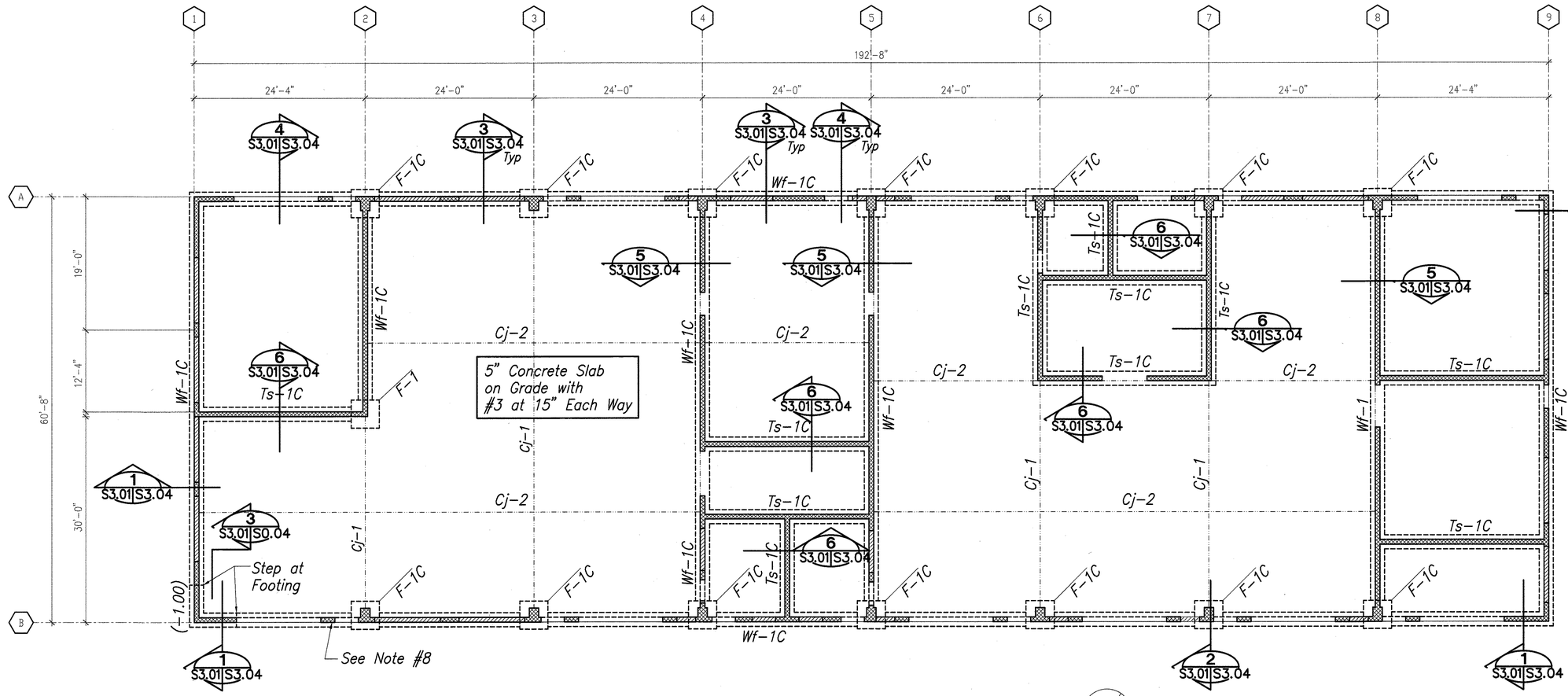
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

MAINTENANCE BUILDING - ROOF SECTIONS

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S2.06 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	93	150



MECHANICAL / BRIDGE SHOP BUILDING – FOUNDATION PLAN

Scale: 1/8" = 1'-0"

Legend:

Wf-1C	Indicates wall footing type, See footing schedule on sheet S3.04
F-1C	Indicates column footing type, See footing schedule on sheet S3.04
Cj-1	Indicates slab joint type, See sheet 2/S0.04
Ts-1C	Indicates thickened slab See sheet S3.04
	Indicates full height cmu walls
	Indicates partial height cmu walls
	Indicates change in slab elevation, See Architectural Drawings

Notes:

1. Reference Elevation = 0.00 = Finished Floor Elevation 294.2 Civil Elevation
2. Top of footings shall be 1'-0" below the lower of the reference elevation or lowest adjacent finished grade, uon.
3. See Architectural Drawings for dimensions not shown on Structural Drawings.
4. See foundation notes on sheet S0.01 for subgrade and slab on grade preparation.
5. Thickness of slabs on grade shown is minimum and shall be maintained at all sloped and depressed areas.
6. See Civil, Architectural, Mechanical and Electrical Drawings for extent and locations of depressed slabs, slopes to drain, finish floor elevations and equipment pads.
7. See architectural Drawings for fireproofing and waterproofing requirements and details
8. Cmu wall reinforcing shall be #5 at each cell, centered, vertical, #3 ties at 16". Typical at wall and with width= 2'-0" to 3'-0".

0' 4' 8' 16' 24'
1/8" = 1'-0"

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

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No. 6818-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

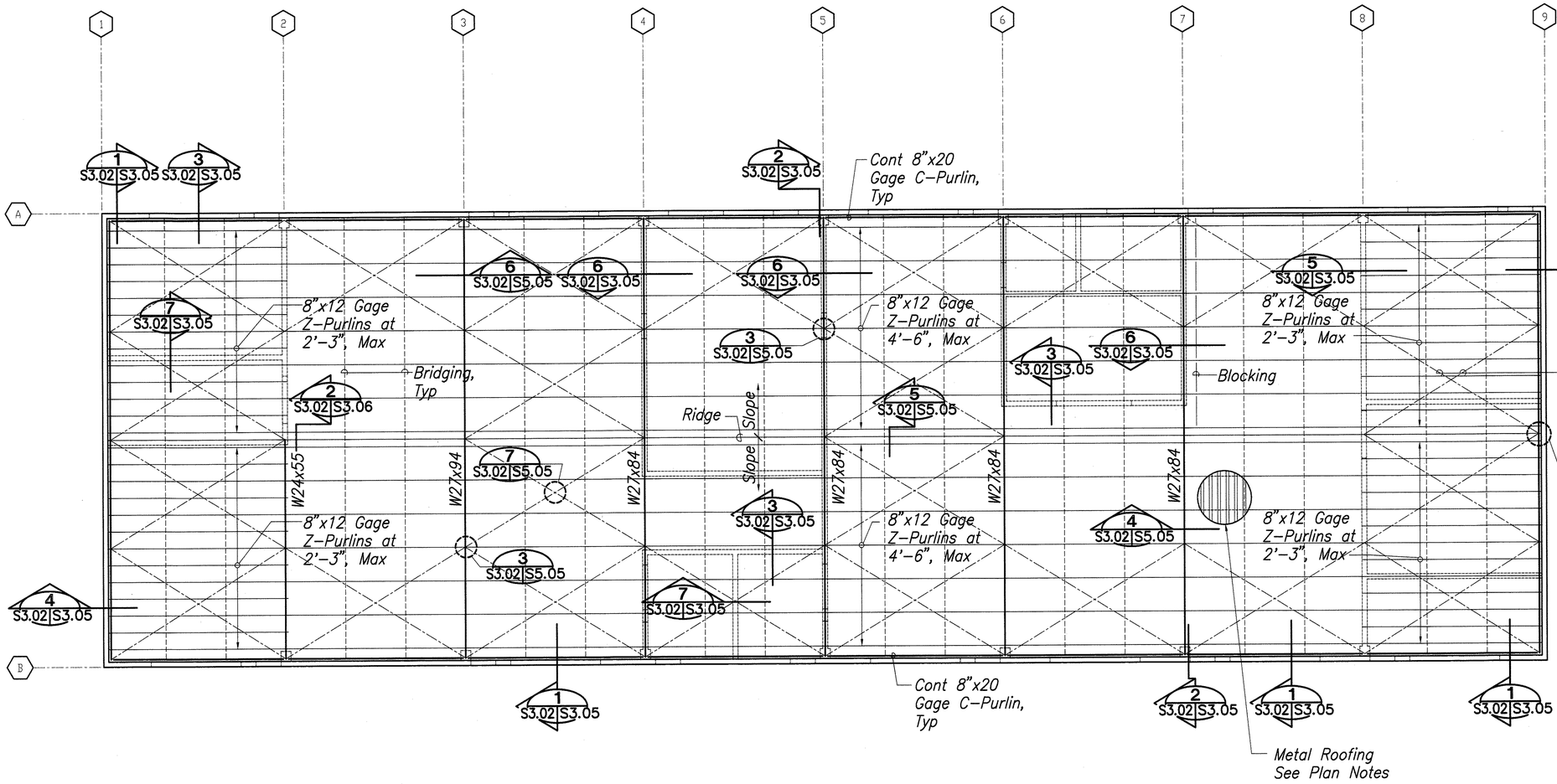
CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

MECHANICAL / BRIDGE SHOP BUILDING - FOUNDATION PLAN

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S3.01 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	94	150



MECHANICAL / BRIDGE SHOP BUILDING – ROOF FRAMING PLAN

Scale: 1/8" = 1'–0"

CRANE SUPPORT PLAN

Scale: 1/8" = 1'–0"

0' 4' 8' 16' 24'
1/8" = 1'–0"

Legend:

▭ *Indicates full height cmu walls*

Note:

Roof metal roofing shall be 22 gage 3–span condition with I (Moment of Inertia) = 0.1417 in⁴ and S (Section Modulus) 0.0955 in³. See Arch Dwgs for type. See manufacturer's recommendation for deck to purlin connection.

ORIGINAL PLAN
NOTE BOOK No.
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TRACED BY
DESIGNED BY
QUANTITIES BY
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KEN KAZUO HAYASHIDA
LICENSED PROFESSIONAL ENGINEER
No. 6818–S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

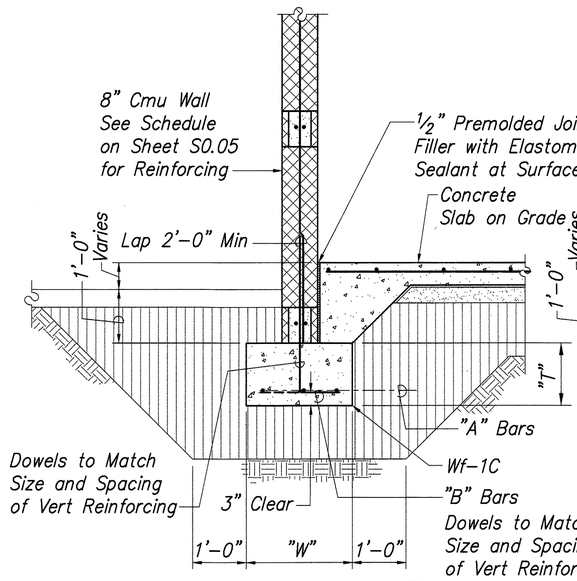
CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

MECHANICAL / BRIDGE SHOP BUILDING - ROOF FRAMING PLAN

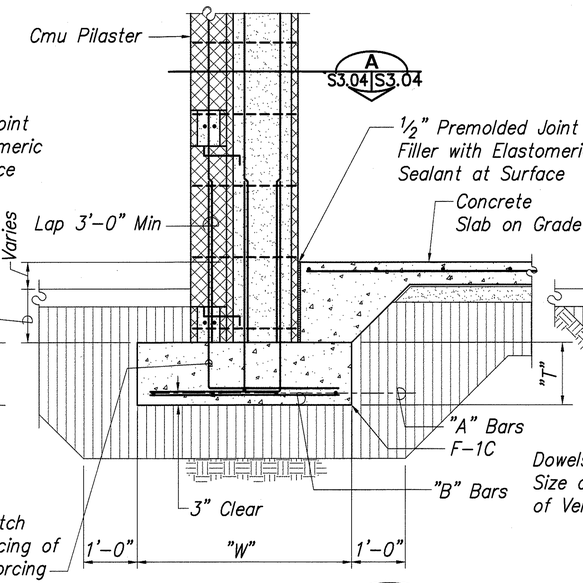
SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S3.02 OF 150 SHEETS

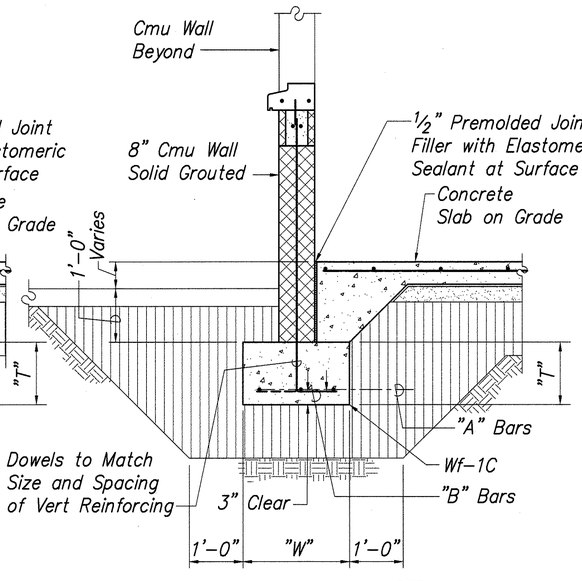
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	95	150



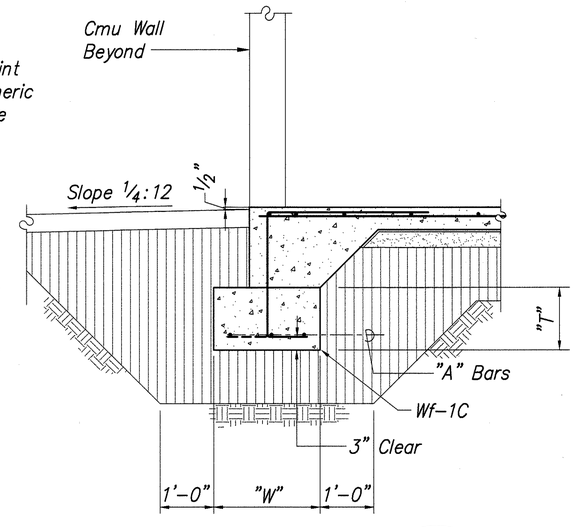
SECTION 1
Scale: 3/4" = 1'-0" S3.01|S3.04



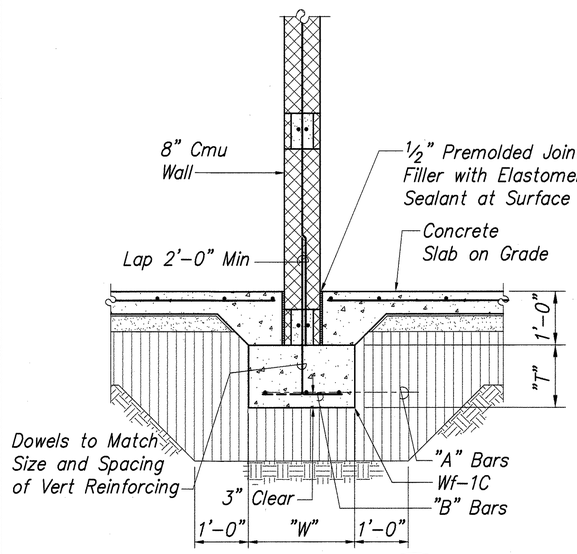
SECTION 2
Scale: 3/4" = 1'-0" S3.01|S3.04



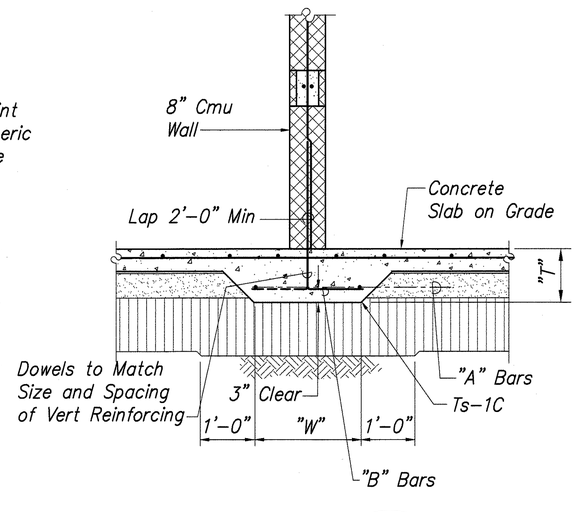
SECTION 3
Scale: 3/4" = 1'-0" S3.01|S3.04



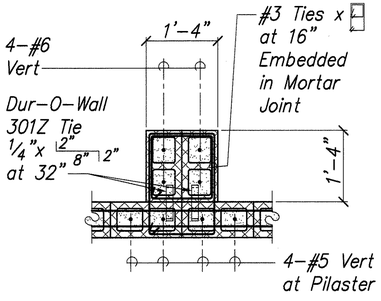
SECTION 4
Scale: 3/4" = 1'-0" S3.01|S3.04



SECTION 5
Scale: 3/4" = 1'-0" S3.01|S3.04



SECTION 6
Scale: 3/4" = 1'-0" S3.01|S3.04



SECTION A
Scale: 3/4" = 1'-0" S3.04|S3.04

FOOTING SCHEDULE					
MARK	"T" THICKNESS	"W" WIDTH	"L" LENGTH	REINFORCING "A" BARS	REINFORCING "B" BARS
F-1C	1'-2"	4'-0"	4'-0"	4-#5	4-#5
Wf-1C	1'-0"	2'-0"	Cont	3-#5	See Detail
Ts-1C	1'-0"	2'-0"	Cont	2-#4	See Detail

ORIGINAL PLAN | NOTE BOOK | No.
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KEN KAZUO HAYASHIDA
LICENSED PROFESSIONAL ENGINEER
No. 6818-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

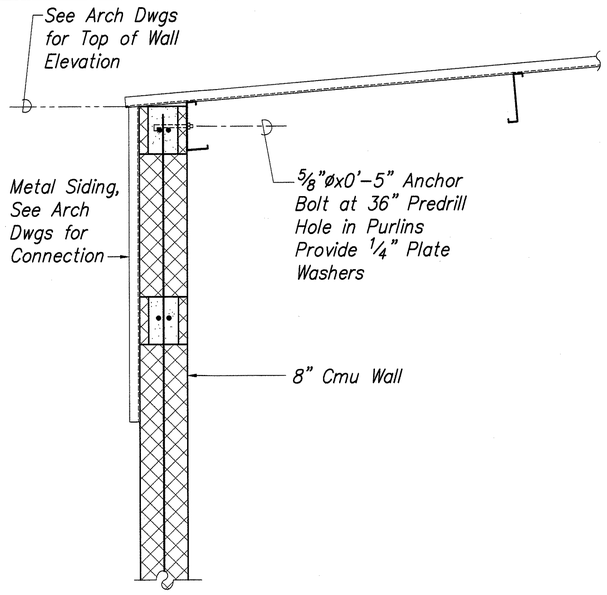
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

MECHANICAL / BRIDGE SHOP BUILDING - FOUNDATION SECTIONS

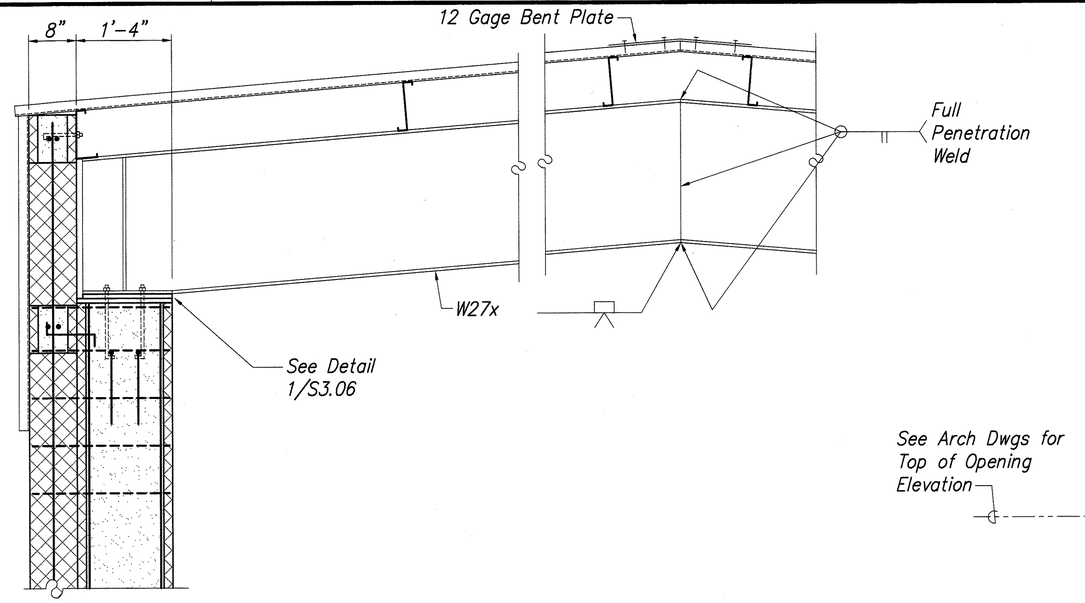
SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S3.04 OF 150 SHEETS

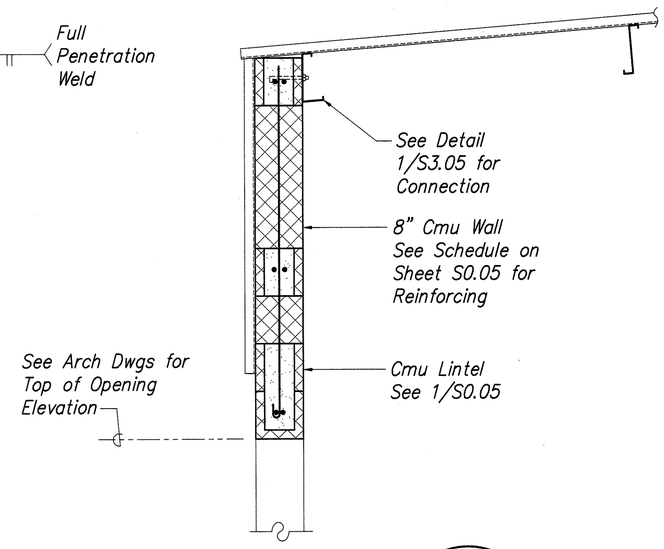
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	96	150



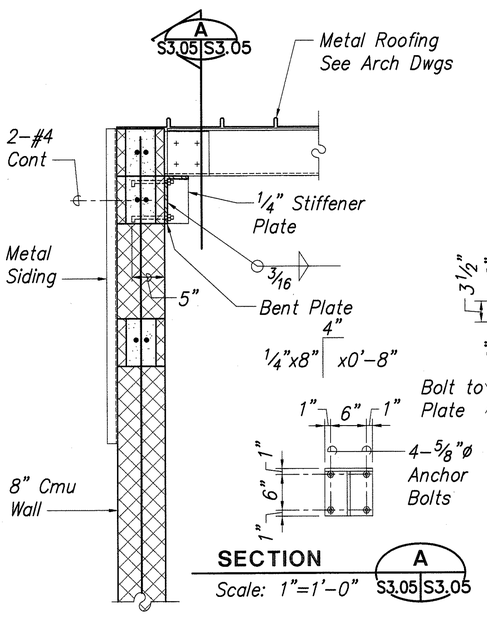
SECTION 1 S3.02|S3.05
Scale: 1"=1'-0"



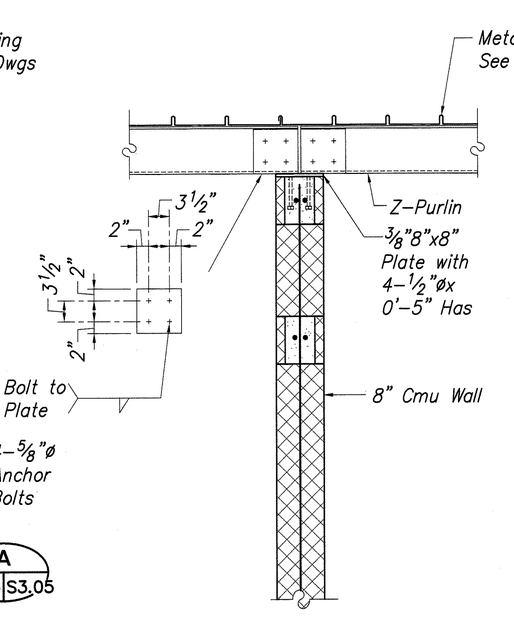
SECTION 2 S3.02|S3.05
Scale: 1"=1'-0"



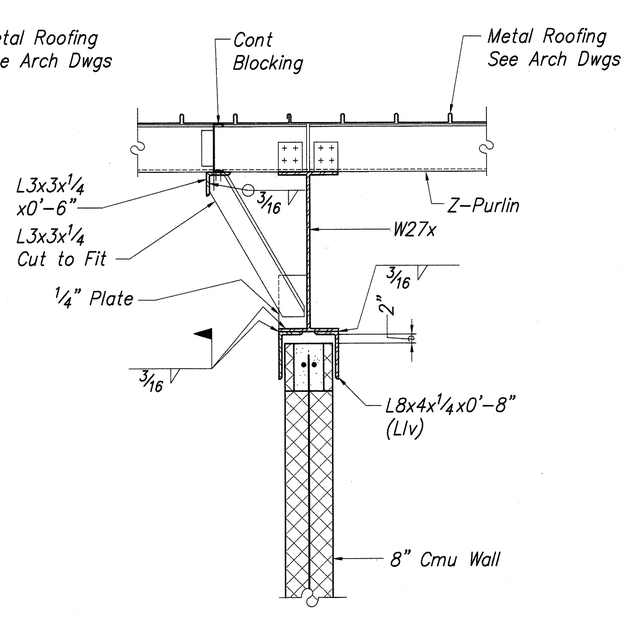
SECTION 3 S3.02|S3.05
Scale: 1"=1'-0"



SECTION A S3.05|S3.05
Scale: 1"=1'-0"

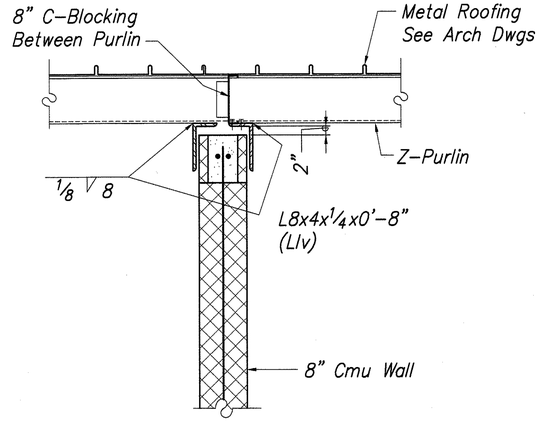


SECTION 4 S3.02|S3.05
Scale: 1"=1'-0"



SECTION 5 S3.02|S3.05
Scale: 1"=1'-0"

SECTION 6 S3.02|S3.05
Scale: 1"=1'-0"



SECTION 7 S3.02|S3.05
Scale: 1"=1'-0"

ORIGINAL PLAN	SHEETS PLOTTED BY	DATE
NOTE BOOK	SHEETS BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

KEN KAZUO HAYASHIDA LICENSED PROFESSIONAL ENGINEER No. 6818-S HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

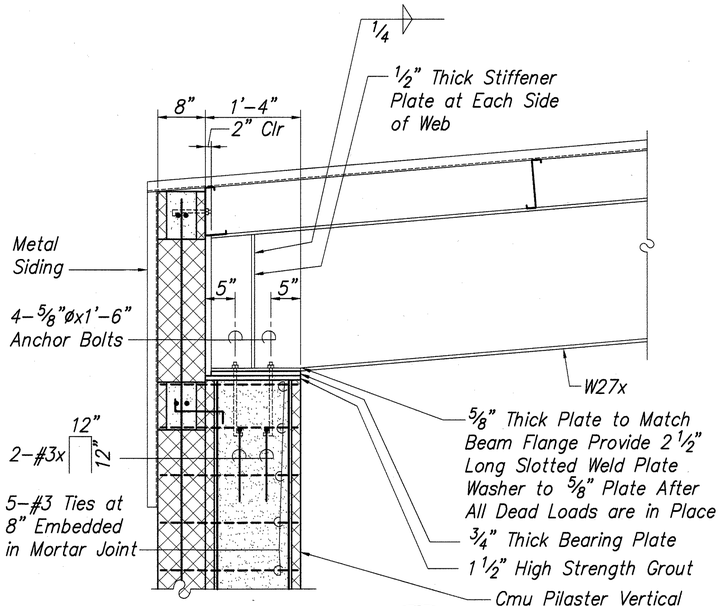
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

MECHANICAL / BRIDGE SHOP - ROOF SECTIONS

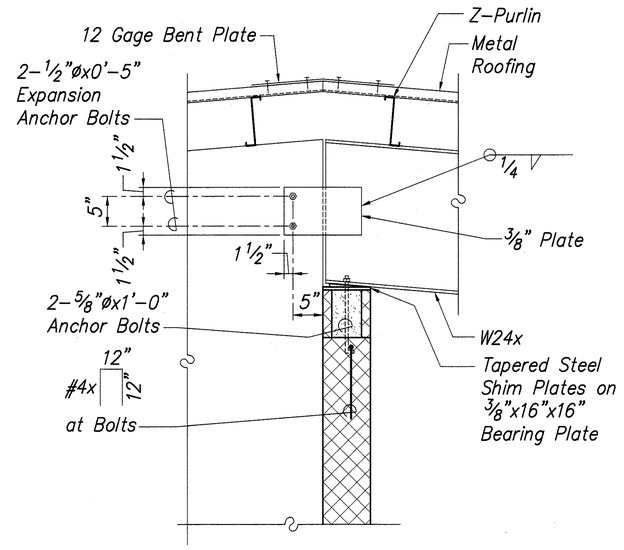
SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S3.05 OF 150 SHEETS

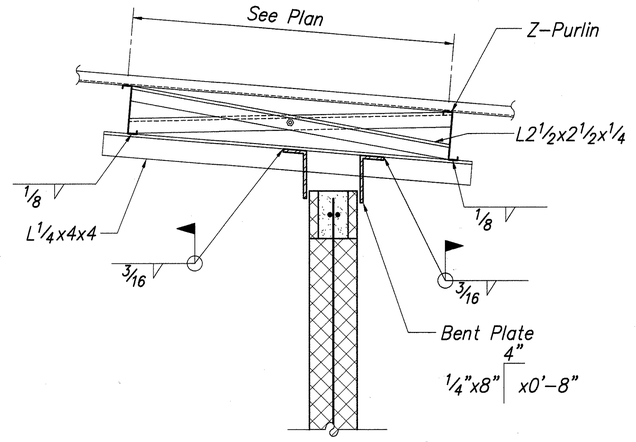
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	97	150



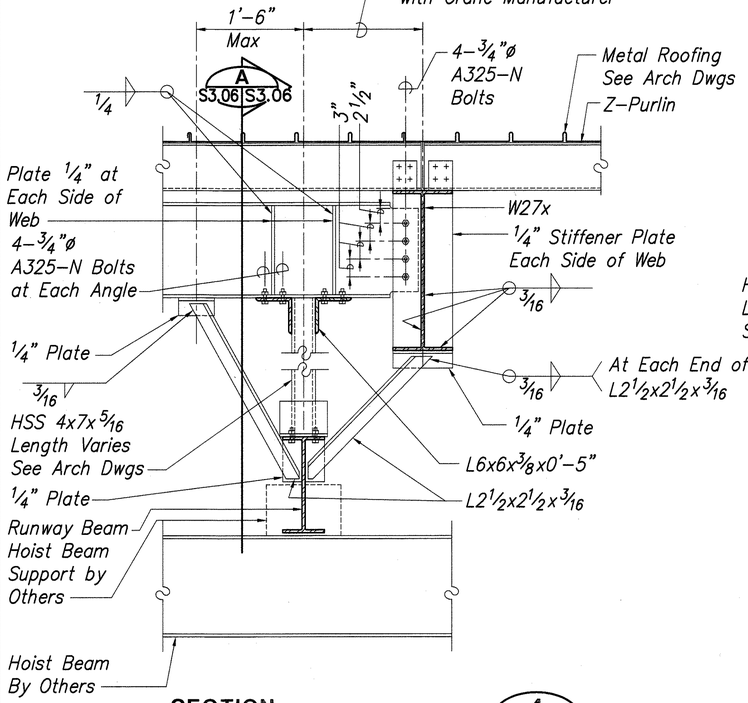
SECTION 1 (S3.02 | S3.06)
Scale: 1"=1'-0"



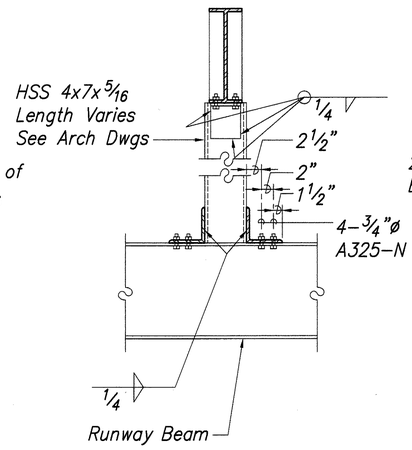
SECTION 2 (S3.02 | S3.06)
Scale: 1"=1'-0"



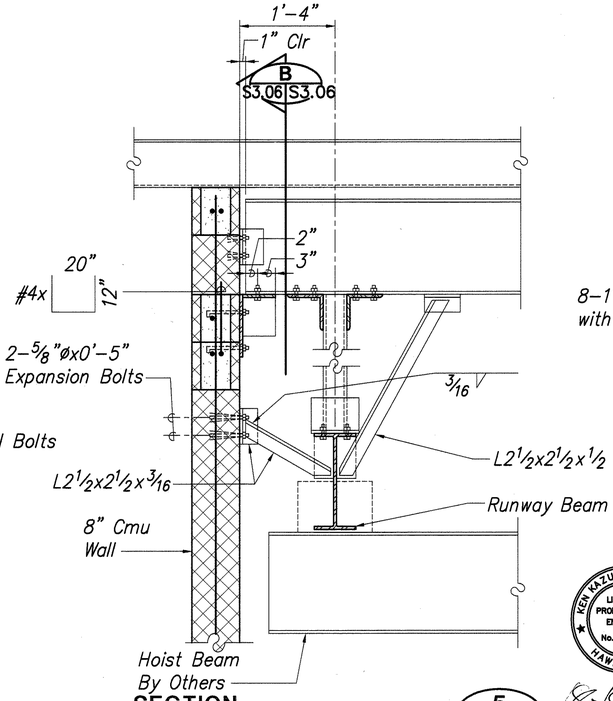
SECTION 3 (S3.02 | S3.06)
Scale: 1"=1'-0"



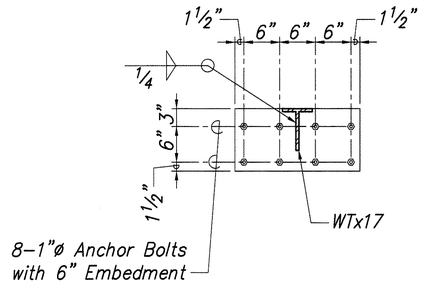
SECTION 4 (S3.02 | S3.06)
Scale: 1"=1'-0"



SECTION A (S3.06 | S3.06)
Scale: 1"=1'-0"



SECTION 5 (S3.02 | S3.06)
Scale: 1"=1'-0"



SECTION B (S3.06 | S3.06)
Scale: 1"=1'-0"

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

KEN KAZUO HAYASHIDA LICENSED PROFESSIONAL ENGINEER No. 6818-S HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

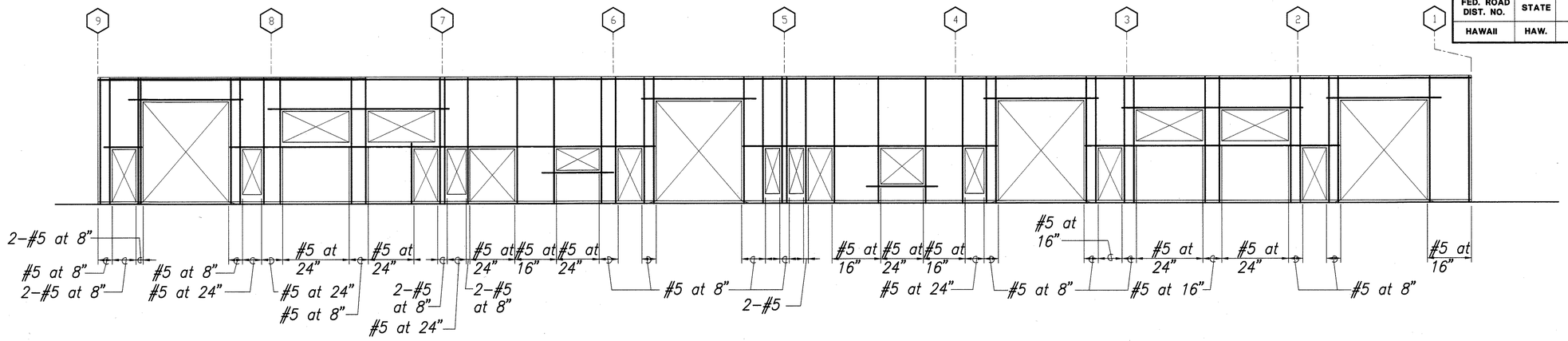
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

MECHANICAL / BRIDGE SHOP - ROOF SECTIONS

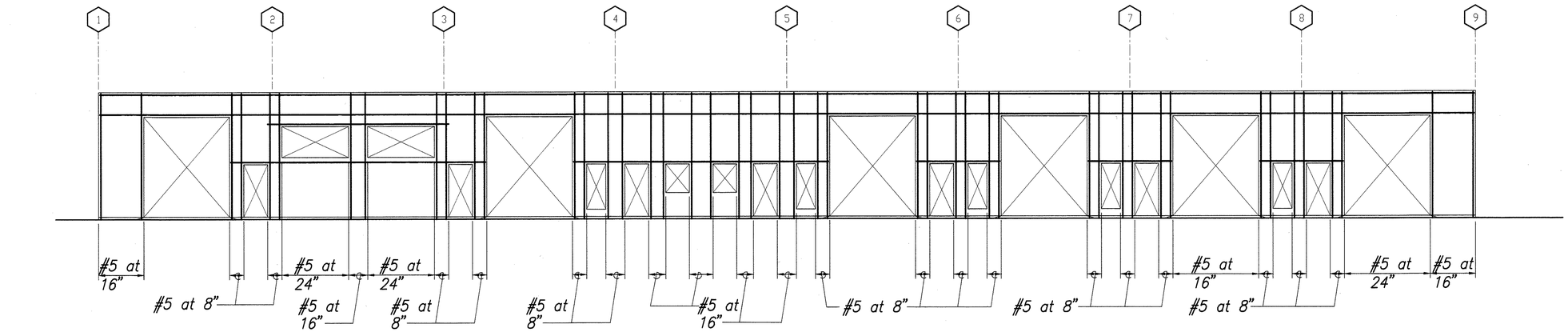
SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S3.06 OF 150 SHEETS

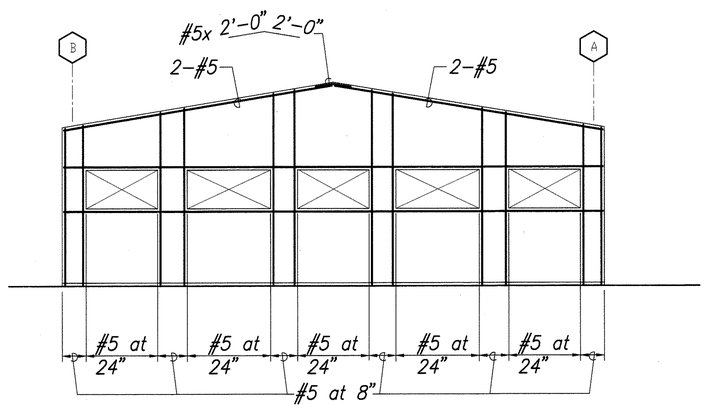
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	98	150



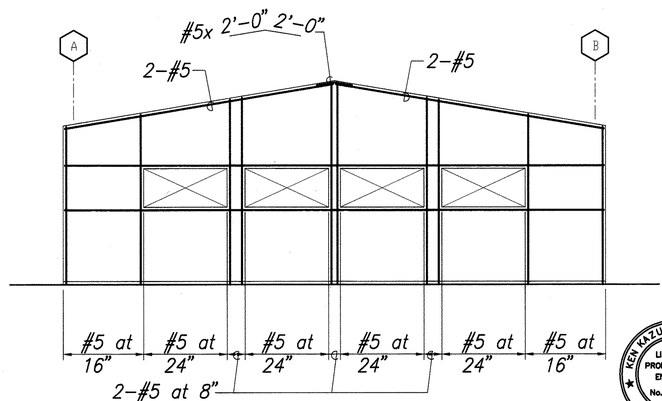
Elevation 1



Elevation 3



Elevation 2



Elevation 4

Note:

For horizontal reinforcing see lintel schedule on sheet S-0.04 and typical wall sections on sheet S3.03 and S3.04.

0' 4' 8' 16' 24'
1/8" = 1'-0"

MECHANICAL / BRIDGE SHOP BUILDING – EXTERIOR CMU WALL REINFORCING LAYOUT

Scale: 1/8" = 1'-0"

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

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No. 6818-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

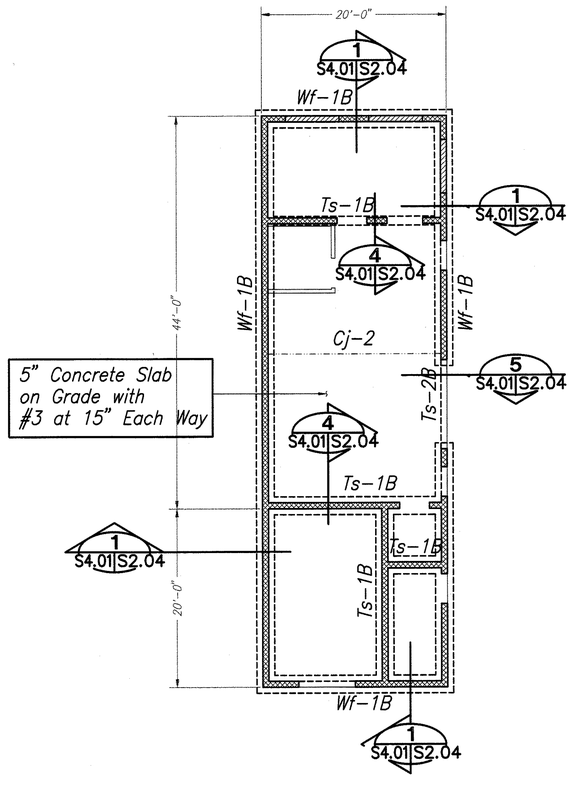
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

MECHANICAL / BRIDGE SHOP EXTERIOR CMU WALL REINF LAYOUT

SCALE: AS NOTED DATE: MAR 30, 01

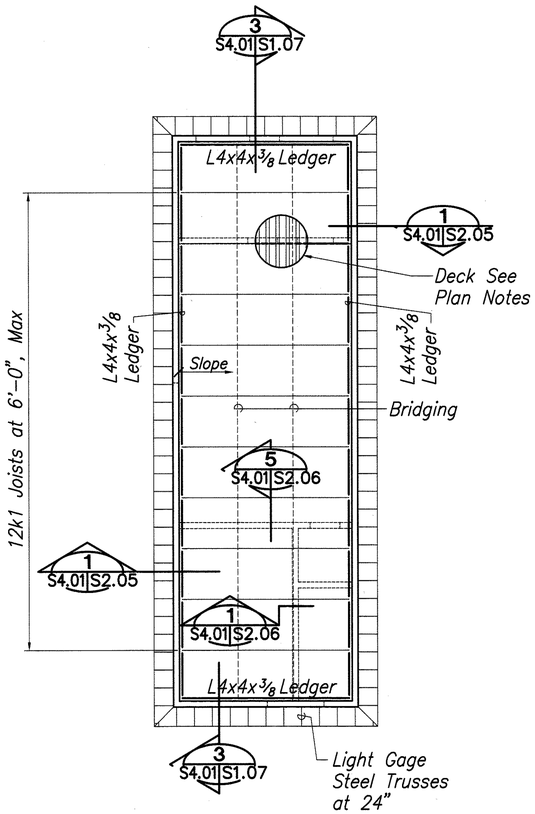
SHEET NO. S3.07 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	99	150



MATERIAL TESTING – FOUNDATION PLAN

Scale: 1/8" = 1'-0"



MATERIAL TESTING – ROOF FRAMING PLAN

Scale: 1/8" = 1'-0"

Notes:

1. *Reference Elevation 0.00 = Finished Floor Elevation = (296.6 Civil)*
2. *Top of footings shall be 1'-0" below the lower of the reference elevation or lowest adjacent finished grade, uon.*
3. *See Architectural Drawings for dimensions not shown on Structural Drawings.*
4. *See foundation notes on sheet S0.01 for subgrade and slab on grade preparation.*
5. *Thickness of slabs on grade shown is minimum and shall be maintained at all sloped and depressed areas.*
6. *See Civil, Architectural, Mechanical and Electrical Drawings for extent and locations of depressed slabs, slopes to drain, finish floor elevations and equipment pads.*
7. *See architectural Drawings for fireproofing and waterproofing requirements and details*
8. *See sheet S0.05 for masonry cmu wall typical details.*
9. *See sheet S0.08 for typical deck details.*

Legend:

Wf-1B	*Indicates wall footing type, See footing schedule on sheet S2.04*
Ts-1B	*Indicates thickened slab type, See footing schedule on sheet S2.04*
Cj-1	*Indicates slab joint type, See sheet 2/S0.03*
(00.00)	*Indocates roof deck bearing elevation*
	Indicates full height cmu walls
	Indicates partial height cmu walls
	Indicates change in slab elevation, See Architectural Drawings

Notes:

1. *Roof deck shall be 1½ x22 gage type B Vulcraft or equivilent. Use 3 span condition with max sheet width of 36". Connect deck to supporting member with 3- 5/8" puddle weld, 4-#10 Tek Screws at side lap.*
2. *See Architectural Drawings for all deck bearing elevations and elevation top of all parapet wall.*

0' 4' 8' 16' 24'
1/8" = 1'-0"

KEN KAZUO HAYASHIDA
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No. 6818-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

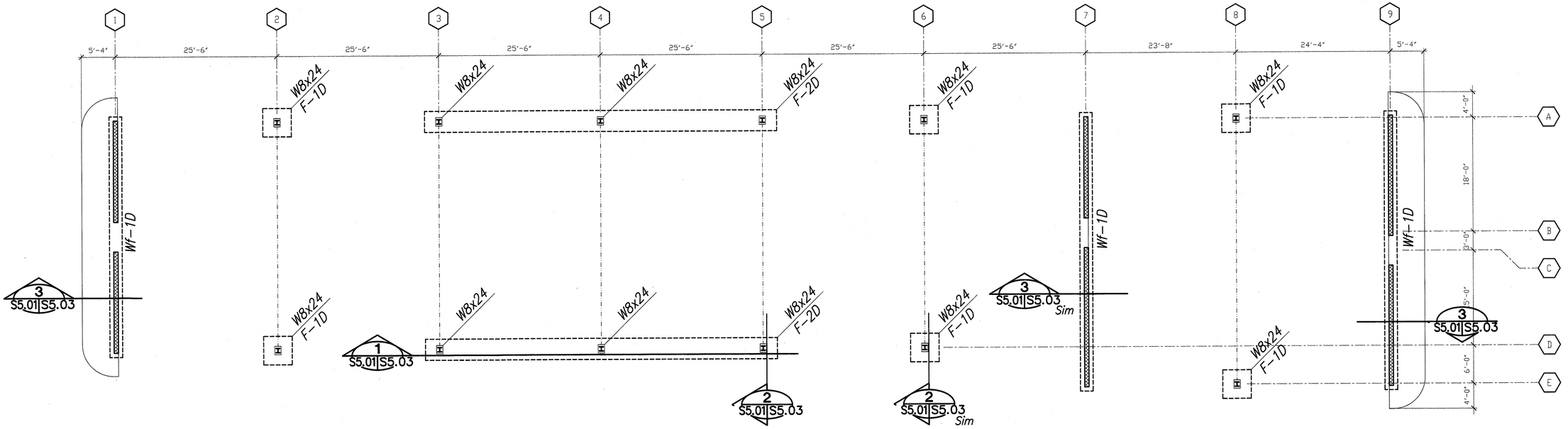
MATERIAL TESTING - FOUNDATION AND ROOF FRAMING PLAN

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S4.01 OF 150 SHEETS

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	100	150



COVERED PARKING – FOUNDATION PLAN

Scale: 1/8" = 1'-0"

Note:
Top of Slab = See Civil Drawings

Legend:

Wf–1D	Indicates wall footing type, See footing schedule on sheet S5.03
F–1D	Indicates column footing type, See footing schedule on sheet S5.03
▨	Indicates full height cmu walls

Notes:

1. See Architectural Drawings for dimensions not shown on Structural Drawings.
2. See foundation notes on sheet S0.01 for subgrade and slab on grade preparation omitt the BTB.
3. See architectural Drawings for waterproofing requirements and details

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

KEN KAZUO HAYASHIDA
LICENSED PROFESSIONAL ENGINEER
No. 6818-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

0' 4' 8' 16' 24'
1/8" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

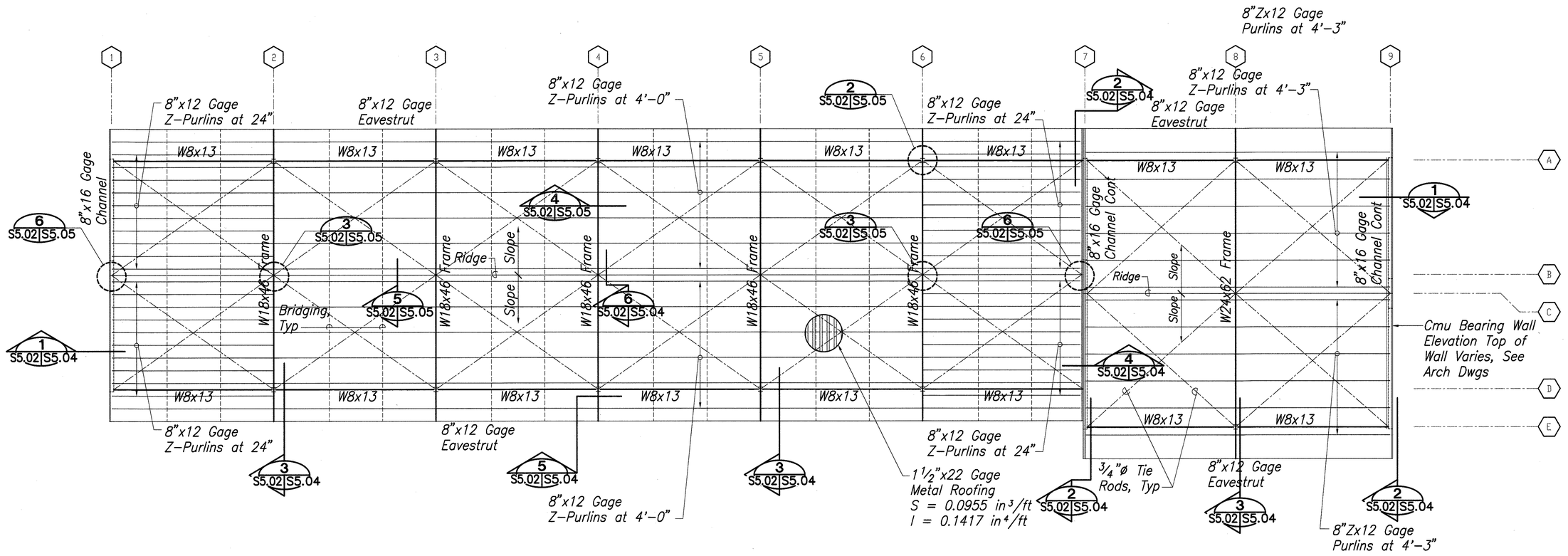
CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

COVERED PARKING - FOUNDATION PLAN

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S5.01 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	101	150



COVERED PARKING – ROOF FRAMING PLAN

Scale: 1/8" = 1'-0"

N

Legend:

Indicates cmu walls below

Notes:

1. See Architectural Drawings for all Deck Bearing Elevations.
2. See Architectural Drawings for Dimensions

0' 4' 8' 16' 24'
1/8" = 1'-0"

KEN MAZUO HAYASHIDA
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

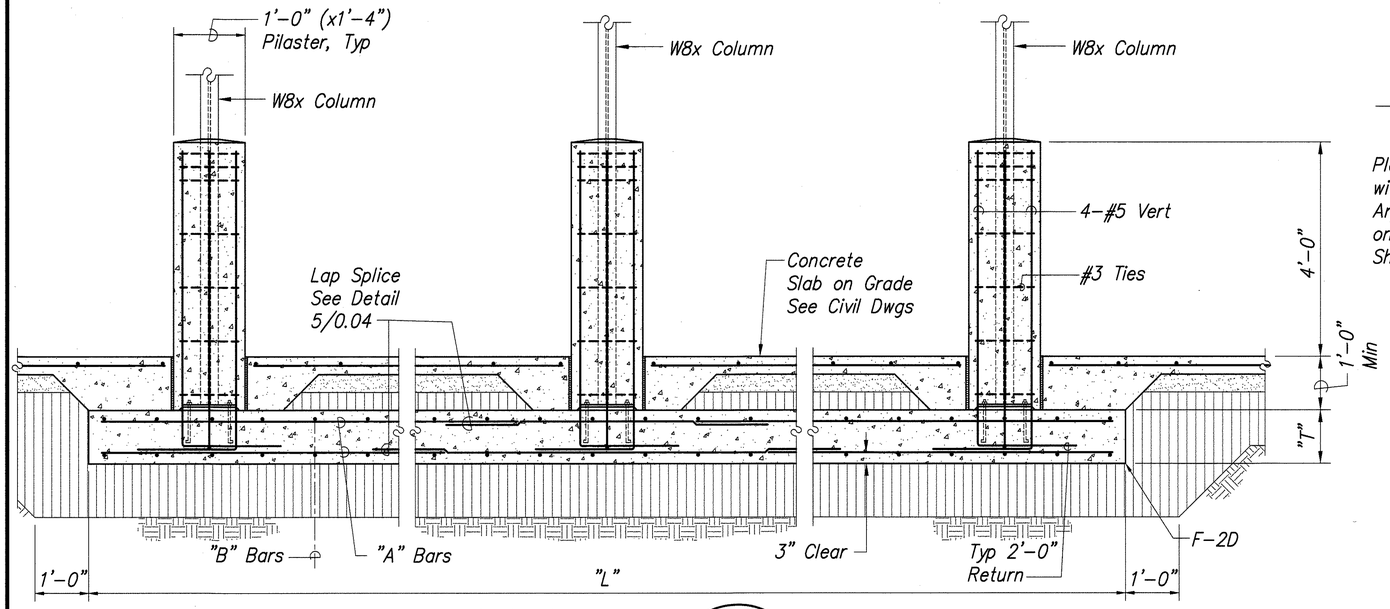
COVERED PARKING - ROOF FRAMING PLAN

SCALE: AS NOTED DATE: MAR 30, 01

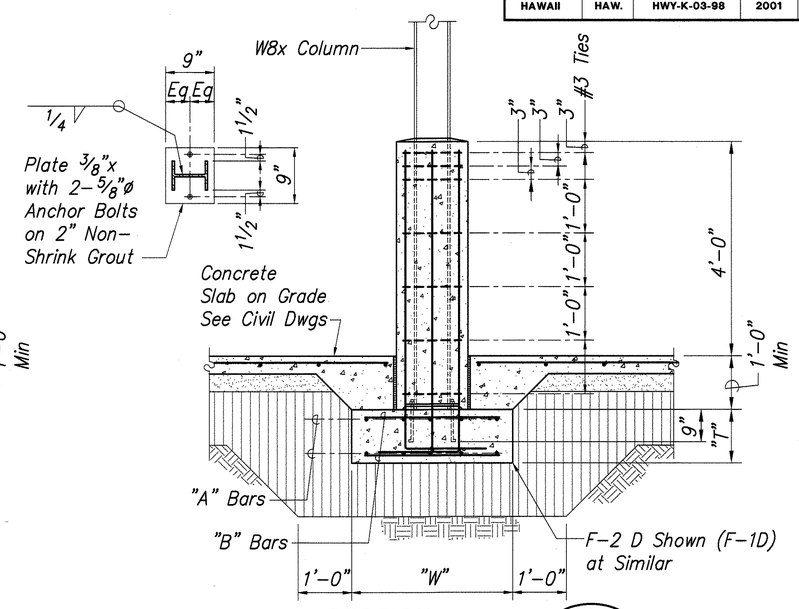
SHEET NO. S5.02 OF 150 SHEETS

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

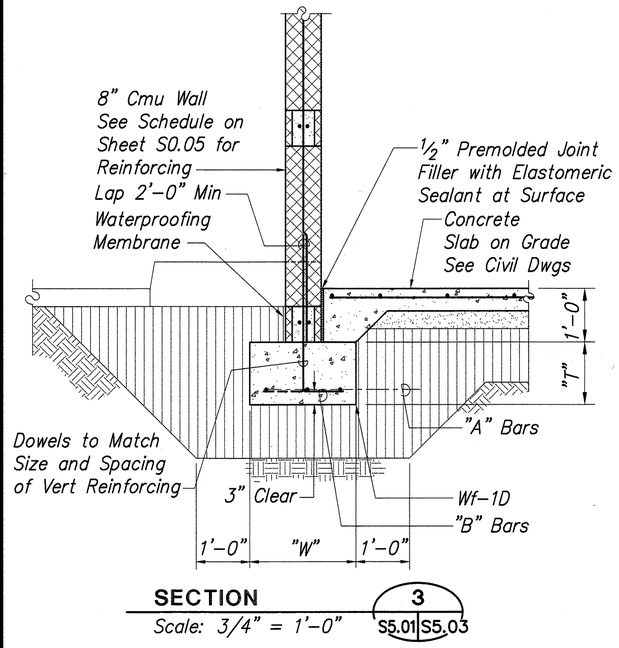
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	102	150



SECTION 1
Scale: 3/4" = 1'-0" S5.01|S5.03



SECTION 2
Scale: 3/4" = 1'-0" S5.01|S5.03



SECTION 3
Scale: 3/4" = 1'-0" S5.01|S5.03

FOOTING SCHEDULE					
MARK	"T" THICKNESS	"W" WIDTH	"L" LENGTH	REINFORCING	
				"A" BARS	"B" BARS
F-1D	1'-2"	4'-6"	4'-6"	5-#5 T&B	5-#5 T&B
F-2D	1'-0"	3'-0"	55'-6"	4-#5 T&B	56-#5 T&B
Wf-1D	1'-0"	2'-0"	Cont	2-#4 Cont	See Detail

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

KEN KAZUO HAYASHIDA
LICENSED PROFESSIONAL ENGINEER
No. 6818-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

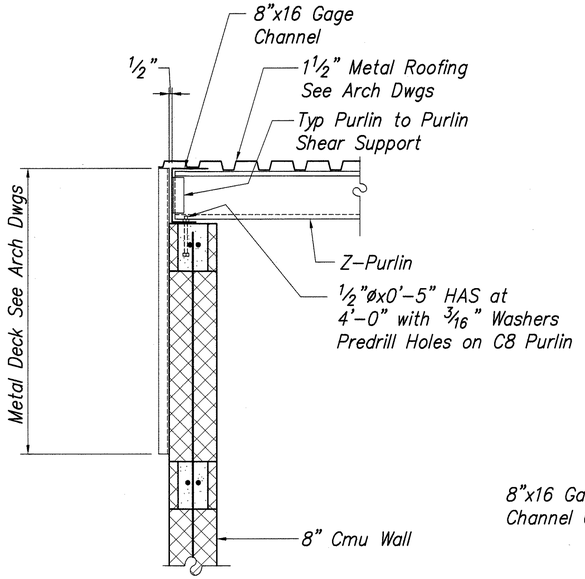
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

COVERED PARKING - FOUNDATION SECTIONS

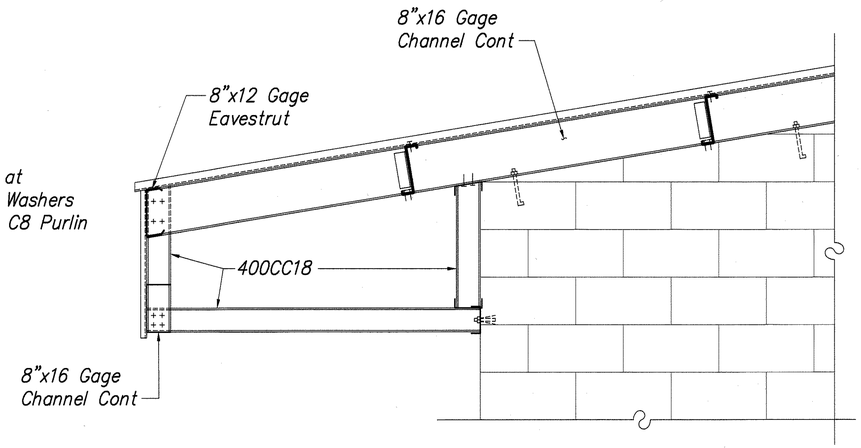
SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S5.03 OF 150 SHEETS

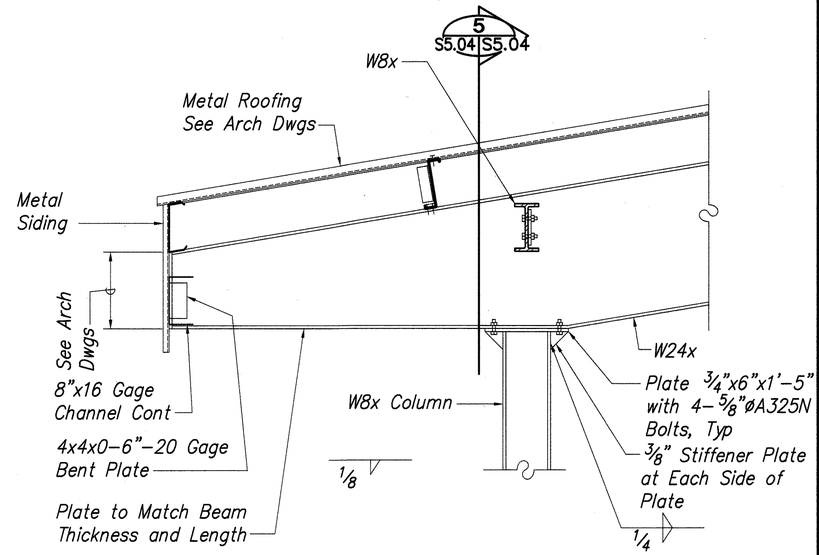
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	103	150



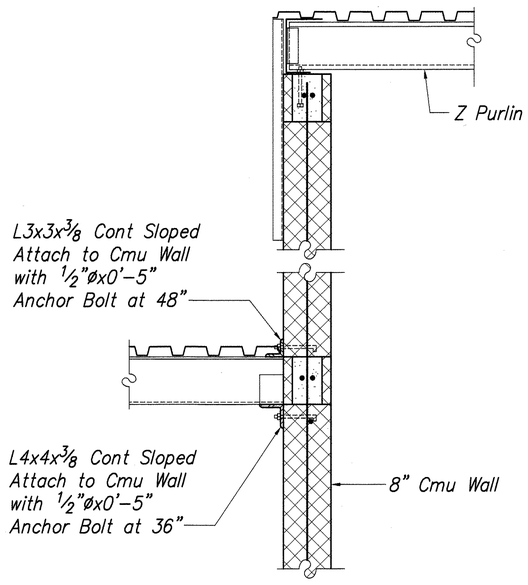
SECTION 1 (S5.02 | S5.04)
Scale: 1"=1'-0"



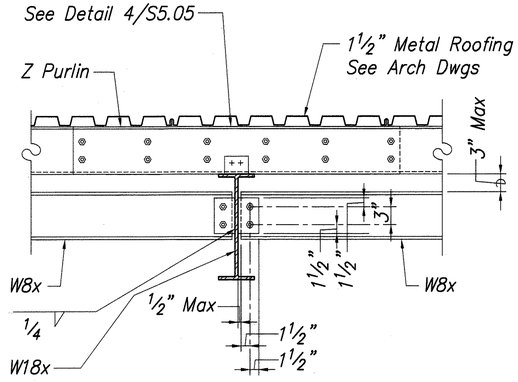
SECTION 2 (S5.02 | S5.04)
Scale: 1"=1'-0"



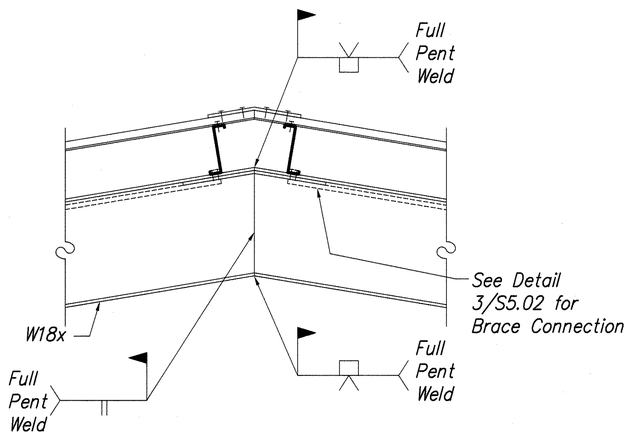
SECTION 3 (S5.02 | S5.04)
Scale: 1"=1'-0"



SECTION 4 (S5.02 | S5.04)
Scale: 1"=1'-0"



SECTION 5 (S5.02 | S5.04)
Scale: 1"=1'-0"



SECTION 6 (S5.02 | S5.04)
Scale: 1"=1'-0"

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

KEN MAZUO HAYASHIDA
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

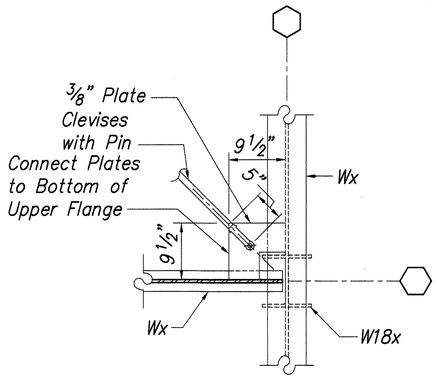
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

COVERED PARKING - ROOF SECTIONS

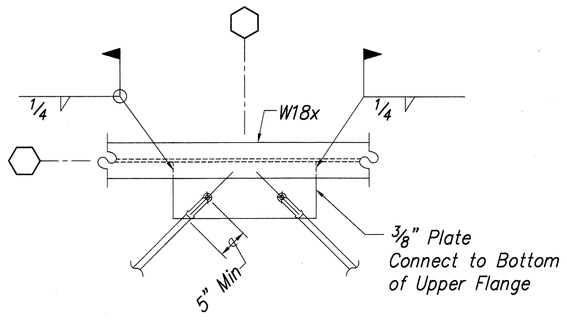
SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S5.04 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	104	150

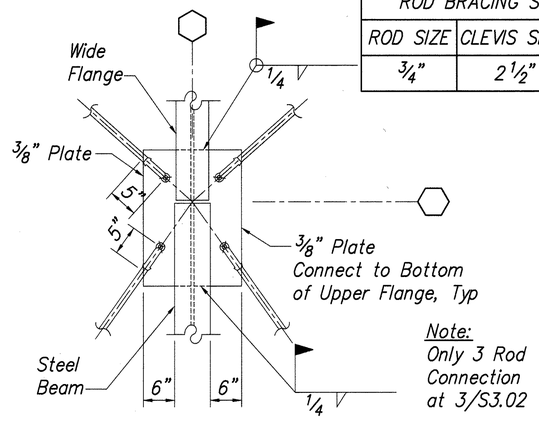


SECTION 1 — S5.02 | S5.05
Scale: 1"=1'-0"



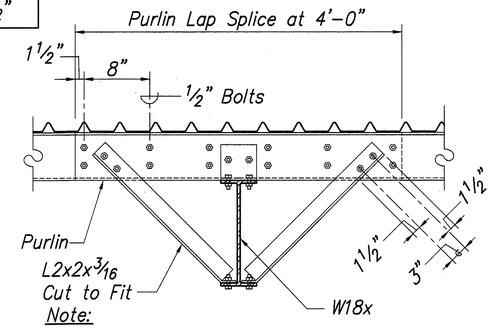
SECTION 2 — S5.02 | S5.05
Scale: 1"=1'-0"

ROD BRACING SCHEDULE		
ROD SIZE	CLEVIS SIZE	PIN SIZE
3/4"	2 1/2"	1 1/2"



Note:
Only 3 Rod
Connection
at 3/S3.02

SECTION 3 — S3.02 | S5.05 — 3 — S5.02 | S5.05
Scale: 1"=1'-0"



Note:
Typical at
Each Purlin

SECTION 3 — S3.02 | S5.05 — 4 — S5.02 | S5.05 — 6 — S7.01 | S5.05
Scale: 1"=1'-0"

SECTION 5 — S3.02 | S5.05 — 5 — S5.02 | S5.05
Scale: 1"=1'-0"

SECTION 6 — S3.02 | S5.05 — 6 — S5.02 | S5.05
Scale: 1"=1'-0"

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

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HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

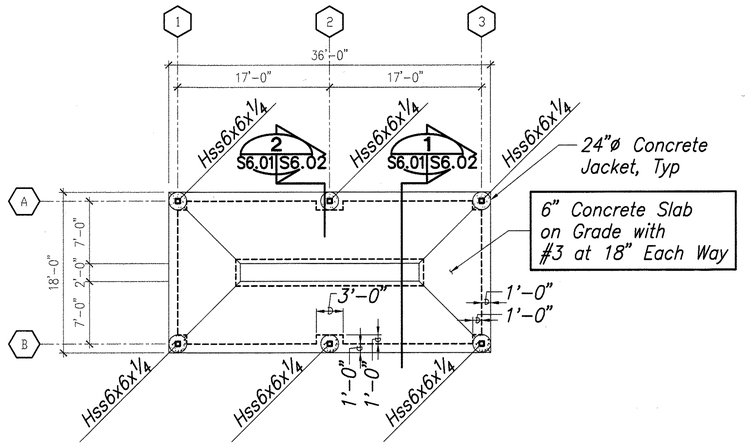
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

COVERED PARKING - ROOF SECTIONS

SCALE: AS NOTED — DATE: MAR 30, 01

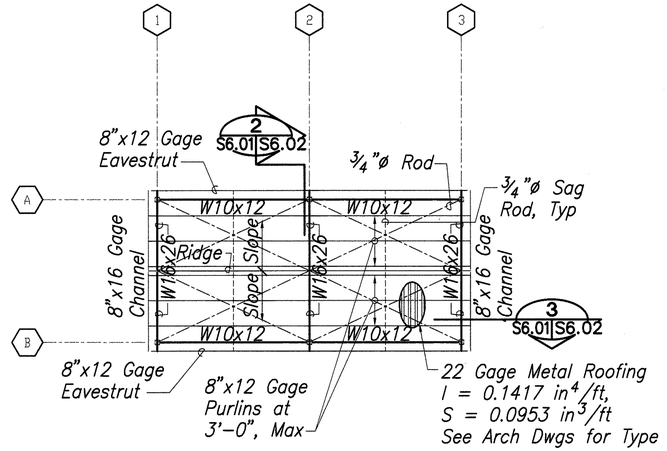
SHEET NO. S5.05 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	105	150



COVERED WASH PAD – FOUNDATION PLAN

Scale: 1/8" = 1'-0"



COVERED WASH PAD – ROOF FRAMING PLAN

Scale: 1/8" = 1'-0"

Legend:

Indicates change in slab elevation, See Architectural Drawings

Notes:

1. See Architectural Drawings for dimensions not shown on Structural Drawings.
2. See foundation notes on sheet S0.01 for subgrade and slab on grade preparation.
3. Thickness of slabs on grade shown is minimum and shall be maintained at all sloped and depressed areas.
4. See Civil, Architectural, Mechanical and Electrical Drawings for extent and locations of depressed slabs, slopes to drain, finish floor elevations and equipment pads.
5. See architectural Drawings for fireproofing and waterproofing requirements and details

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

0' 4' 8' 16' 24'
1/8" = 1'-0"

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HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

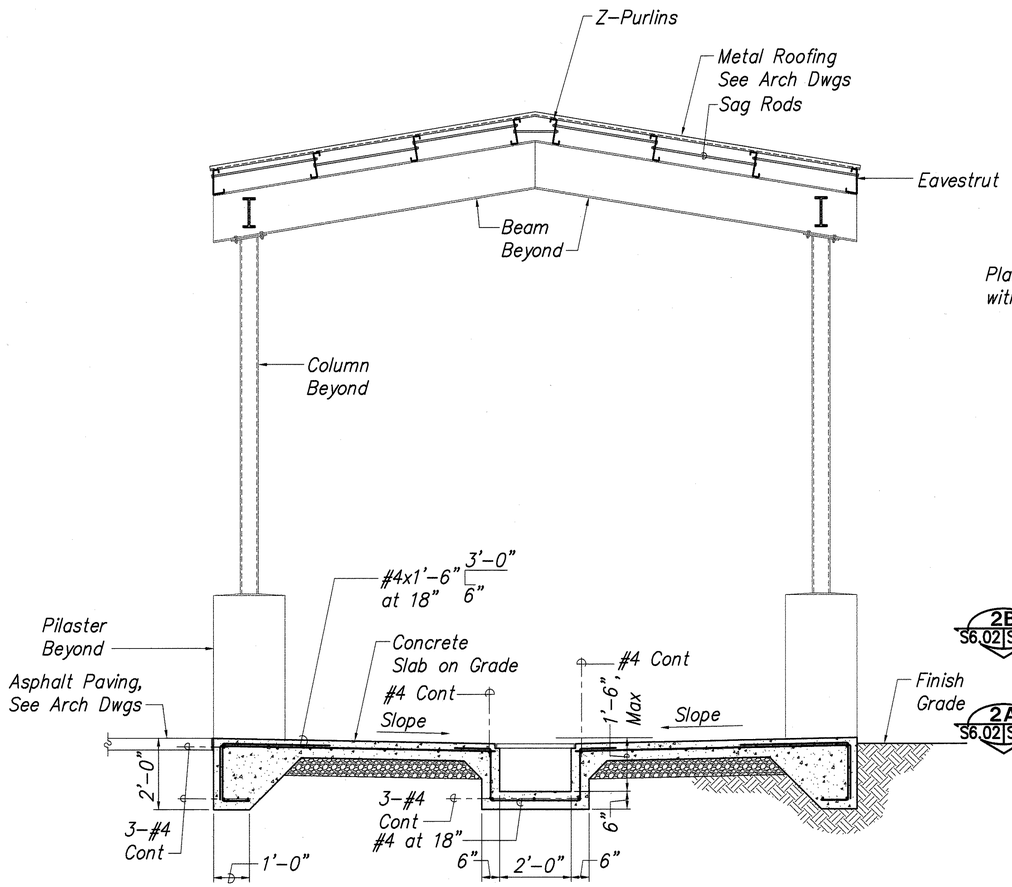
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

COVERED WASH PAD - FOUNDATION AND ROOF FRAMING PLAN

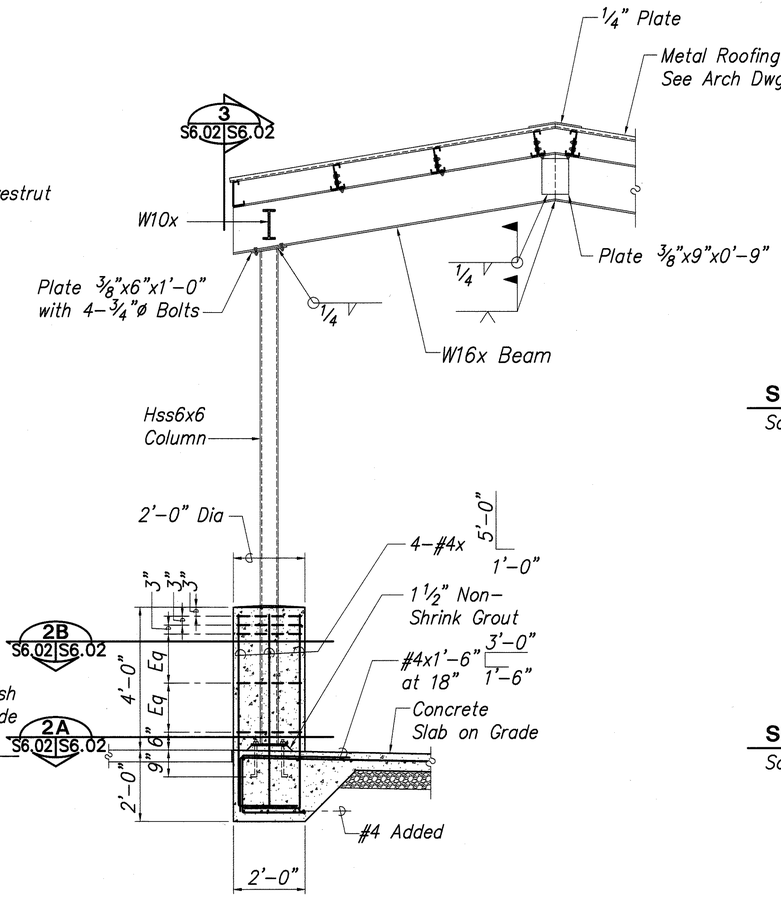
SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S6.01 OF 150 SHEETS

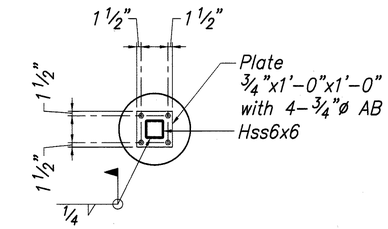
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	106	150



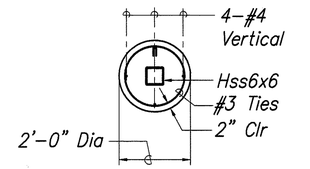
SECTION 1
Scale: 1/2" = 1'-0" S6.01|S6.02



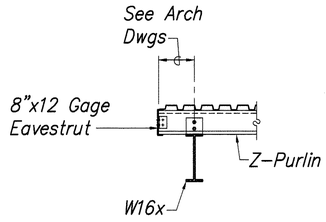
SECTION 2
Scale: 1/2" = 1'-0" S6.01|S6.02



SECTION 2A
Scale: 1/2" = 1'-0" S6.02|S6.02



SECTION 2B
Scale: 1/2" = 1'-0" S6.02|S6.02



SECTION 3
Scale: 1/2" = 1'-0" S6.01|S6.02

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
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ORIGINAL PLAN
NOTE BOOK
No.

KEN KAZUO HAYASHIDA
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No. 6818-S
HAWAII, U.S.A.

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

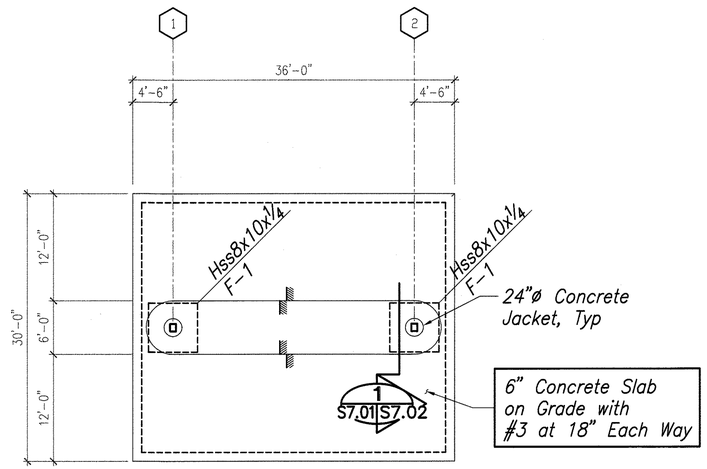
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

COVERED WASH PAD - FOUNDATION AND ROOF SECTIONS

SCALE: AS NOTED DATE: MAR 30, 01

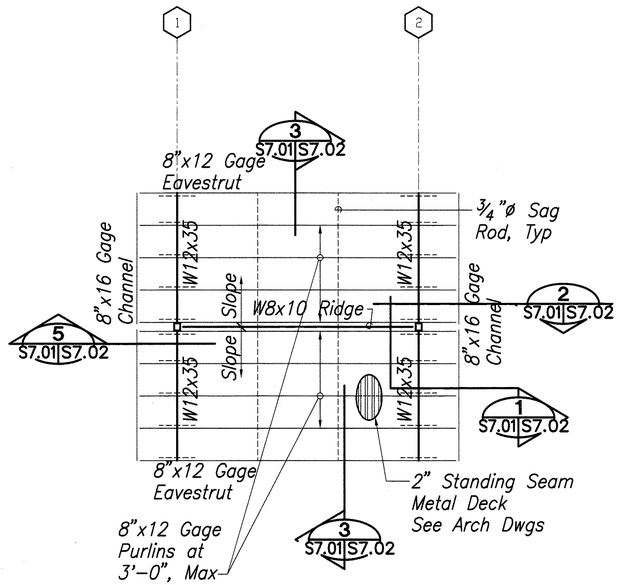
SHEET NO. S6.02 **OF** 150 **SHEETS**

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	107	150



FUEL STATION – FOUNDATION PLAN

Scale: 1/8" = 1'-0"



FUEL STATION – ROOF FRAMING PLAN

Scale: 1/8" = 1'-0"

Legend:

F–1 *Indicates column footing type, See sheet S7.02*

Indicates change in slab elevation, See Architectural Drawings

Notes:

1. *See Architectural Drawings for dimensions not shown on Structural Drawings.*
2. *See foundation notes on sheet S0.01 for subgrade and slab on grade preparation.*
3. *Thickness of slabs on grade shown is minimum and shall be maintained at all sloped and depressed areas.*
4. *See Civil, Architectural, Mechanical and Electrical Drawings for extent and locations of depressed slabs, slopes to drain, finish floor elevations and equipment pads.*
5. *See architectural Drawings for fireproofing and waterproofing requirements and details*

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

0' 4' 8' 16' 24'
1/8" = 1'-0"

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HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

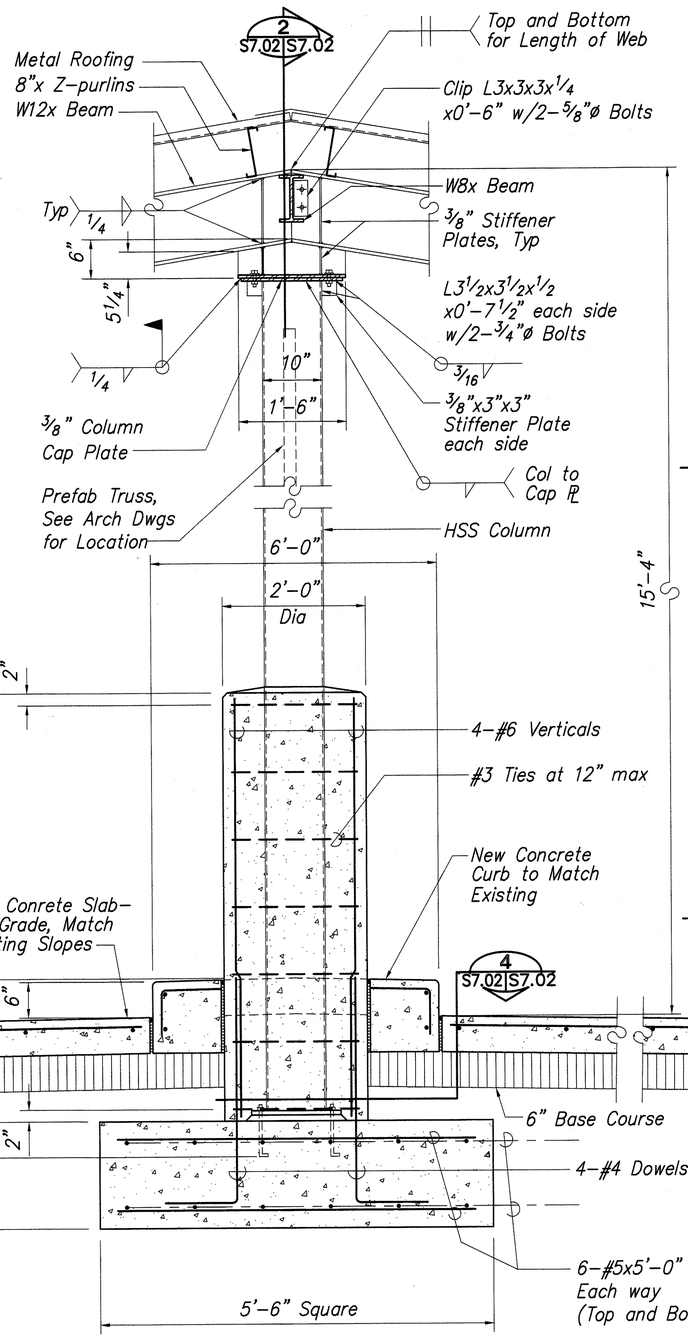
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

FUEL STATION -
FOUNDATION AND ROOF FRAMING PLAN

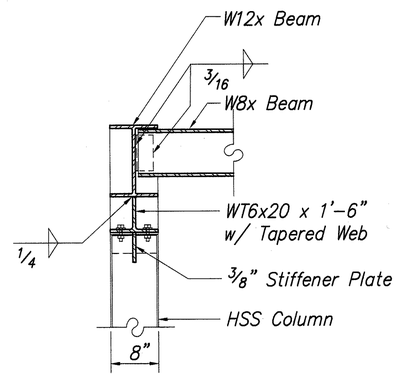
SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S7.01 OF 150 SHEETS

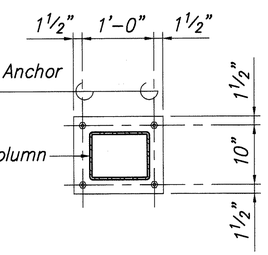
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	108	150



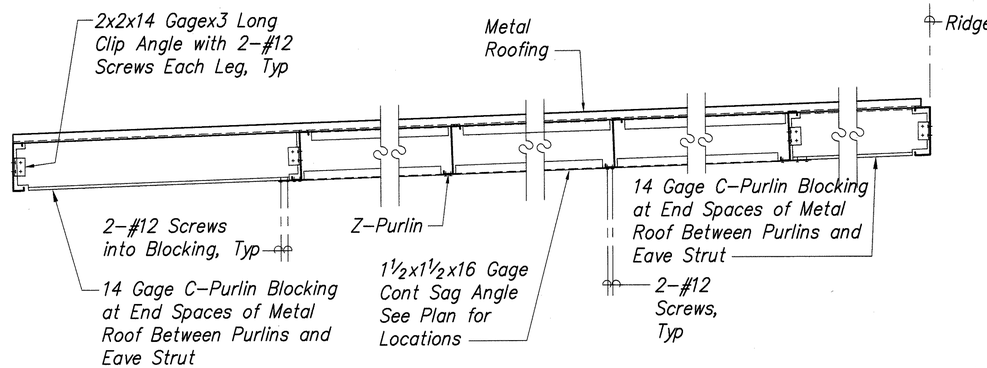
SECTION 1 (S7.01 | S7.02)
Scale 1/2" = 1'-0"



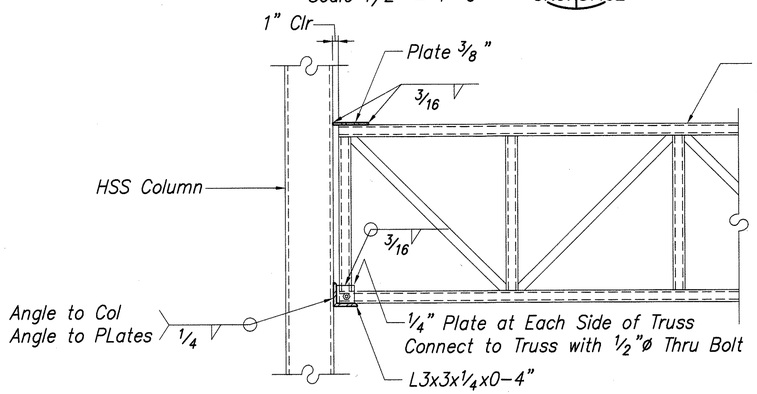
SECTION 2 (S7.01 | S7.02)
Scale 1/2" = 1'-0"



SECTION 4 (S7.01 | S7.02)
Scale 1/2" = 1'-0"



SECTION 3 (S7.01 | S7.02)
Scale 1/2" = 1'-0"



SECTION 5 (S7.01 | S7.02)
Scale 1/2" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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	QUANTITIES BY	
	CHECKED BY	

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HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

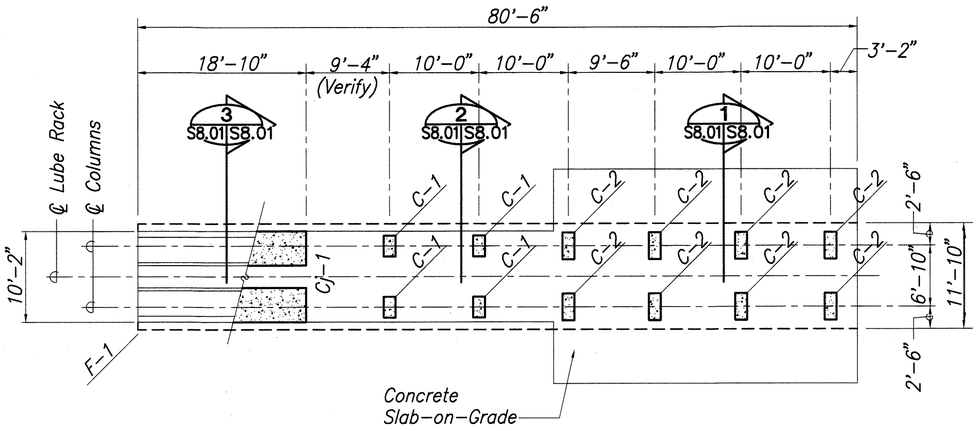
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

FUEL STATION - SECTIONS AND DETAILS

SCALE: AS NOTED DATE: MAR 30, 01

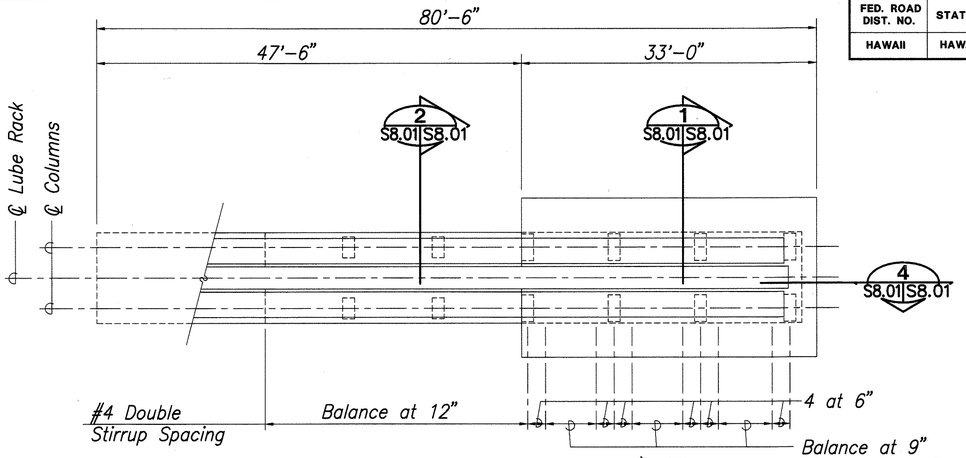
SHEET NO. S7.02 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	109	150



FOUNDATION PLAN

Scale: 1/8" = 1'-0"

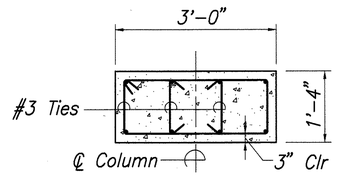


SLAB RACK PLAN

Scale: 1/8" = 1'-0"

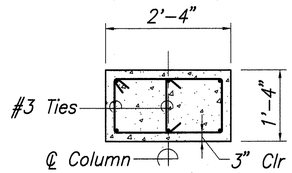
Note:

See Architectural Drawings for dimensions not shown on Structural.



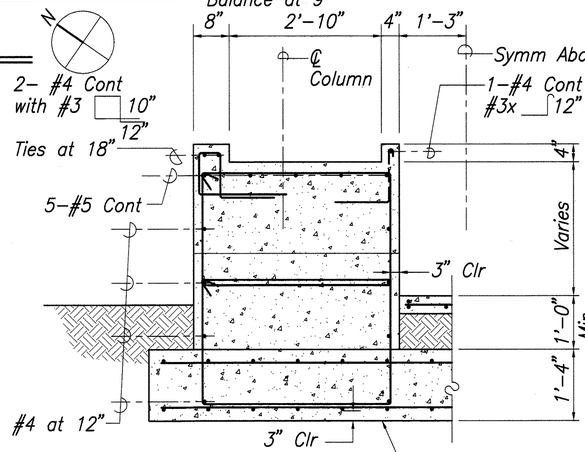
SECTION 1A

Scale: 3/4" 1'-0"



SECTION 2A

Scale: 3/4" 1'-0"



SECTION 2

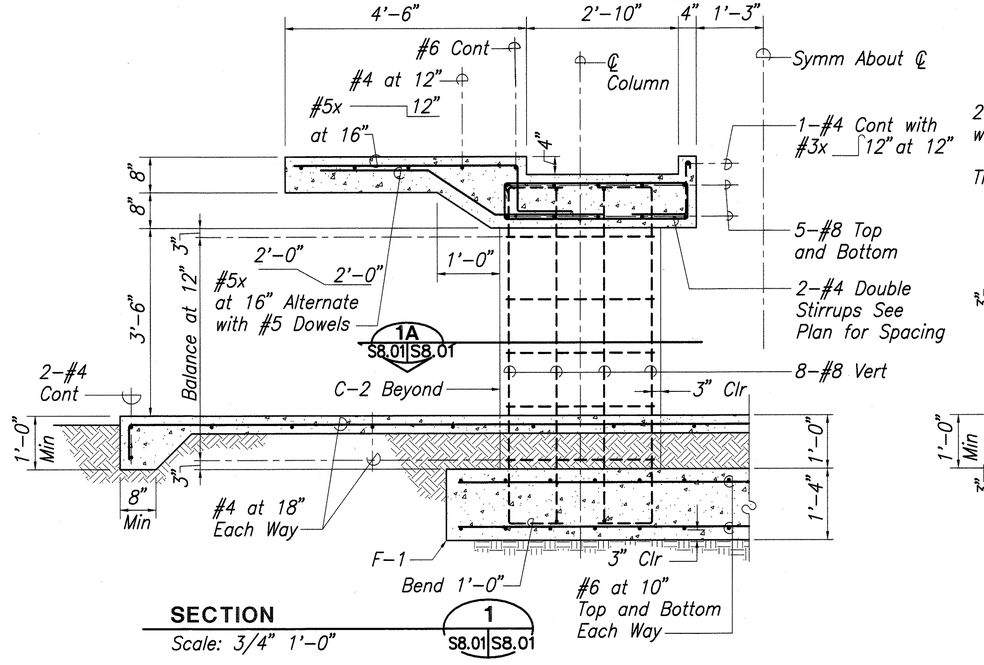
Scale: 3/4" 1'-0"

SECTION 3

Scale: 3/4" 1'-0"

SECTION 4

Scale: 3/4" 1'-0"



SECTION 1

Scale: 3/4" 1'-0"

0' 4' 8' 16' 24'

1/8" = 1'-0"

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

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THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CENTRALIZED DISTRICT OFFICE AND BASEYARD COMPLEX

LIHUE, KAUAI
PROJECT NO. HWY-K-03-98

LUBE RACK - FOUNDATION PLAN, SLAB RACK PLAN, AND SECTIONS

SCALE: AS NOTED DATE: MAR 30, 01

SHEET NO. S8.01 OF 150 SHEETS