GENERAL NOTES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1988	120	191

(I) GENERAL

A. ALL WORK SHALL CONFORM TO THE BUILDING CODE OF THE CITY AND COUNTY OF HONOLULU.

B. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO THE START OF THE JOB AND NOTIFY ALL DISCREPANCIES TO THE ENGINEER.

(II) DESIGN LIVE LOADS (LOADS ARE REDUCED FOR TRIBUTARY AREA AS PERMITTED BY U.B.C.)

A. ROOF: ——— 16 P.S.F (OFFICE BLD'G.), 20 P.S.F (OTHER BLDGS), 10 P.S.F (ANIMAL SHEDS)
B. OFFICES, RESTROOMS: ——— 50 PSF
C. CORRIDORS AND STAIRS: ——— 100 PSF
D. WIND: (TABLE 23-F OF THE 1985 UBC AS AMENDED BY THE CITY & COUNTY OF HONOLULU.)
E. SEISMIC: ——— ZONE 1 INTENSITY

(III) FOUNDATION

A. ALLOWABLE SOIL PRESSURE: ——— 2000 PSF

B. UNLESS SHOWN, BOTTOM OF FOOTINGS SHALL BE AT LEAST 12" BELOW EXISTING GROUND AND 24" BELOW FINISH ADJACENT GRADES.

C. STRUCTURAL FILL AND BACKFILL UNDER AND AROUND STRUCTURES AND SLABS SHALL BE OF GRANULAR MATERIAL, PLACED IN 8" COMACTED LAYERS, COMPACTED TO AT LEAST 95% COMPACTION. AS DEFINED ASTM D-1557

D. BRACE WALLS UNTIL SLABS AND INTERSECTING WALLS PROVIDING LATERAL SUPPORTS ARE CONSTRUCTED.

E. PROVIDE 4" BASE COURSE AND .006" THICK POLYETHYLENE SHEET UNDER ALL INTERIOR SLABS ON GRADE. BASE COURSE AND VAPOR BARRIER NOT REQ'D UNDER WALKWAY

(IV) CONCRETE

A. ALL WORK SHALL CONFORM TO ACI 318-83

B. SLABS AND BEAMS SHALL BE SHORED UNTIL 28 DAYS AFTER THE CONCRETE POUR OR UNTIL CONCRETE HAS ATTAINED DESIGN STRENGTH.

C. IN GENERAL, ALL BEAMS, SPANDRELS AND SLABS SHALL BE POURED MONOLITHICALLY.

D. BEAMS & SLABS OF SPANS 4'-0" OR MORE SHALL BE CAMBERED 1/4" FOR EACH 14'-0" OF SPAN.

E. VERIFY LOCATIONS AND DIMENSIONS OF SLOTS, ANCHORS, DUCTS, ETC., RELATING TO MECHANICAL, ELECTRICAL AND ARCHITECTURAL WORK BEFORE POURING CONC..

F. LOCATIONS OF ALL VERTICAL CONSTRUCTION JOINTS IN SLABS, BEAMS, OR GIRDERS SHALL BE COORDINATED WITH AND APPROVED BY THE ARCHITECT AND THE ENGINEER.

G. CONCRETE SHALL BE AS FOLLOWING:

		MAX. AGG. SIZE
1. WHEN NOT INDICATED:	CLASS "A"	1"
2. JACKET FOR UTILITIES:	CLASS "B"	1 1/2"
3. CONCRETE IN CONTACT W/ SEWAGE OR SEWAGE GASES:	TYPE II CEMENT	NO CORAL AGGREGATE ALLOWED

(V) REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615. TIES AND STIRRUPS SHALL BE GRADE 40. ALL OTHER BARS SHALL BE GRADE 60. BARS TO BE WELDED SHALL CONFORM TO ASTM A706.

B. CONC. COVERAGE FOR REINF. BARS SHALL BE AS FOLLOWS, UNLESS OTHERWISE

1. WALLS EXPOSED TO EARTH OR WEATHER:	2"
2. WALLS INTERIOR FACES:	3/4"
3. SLABS-TOP & BOTTOM BARS:	3/4"
4. BEAMS:	1 1/2"
5. COLUMNS:	1 1/2"
6. CONCRETE CAST AGAINST EARTH:	3"
7. FORMED CONC. EXPOSED:	2"

C. UNLESS OTHERWISE NOTED, SPLICES, LAPS, DOWEL EXTENSIONS AND EMBEDMENT SHALL BE 48 BAR DIAMETERS.

D. STAGGER ALL SPLICES WHERE POSSIBLE.

E. BENDS NOT DIMENSIONED SHALL BE STANDARD HOOKS.

F. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185, GALVANIZED, AND LOCATED IN THE MIDDLE THIRD OF SLABS ON GRADE.

(VI) STRUCTURAL STEEL:

A. ALL STEEL WORK, INCLUDING MATERIAL FABRICATION AND ERECTION, SHALL COMPLY WITH THE "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", OF THE AISC.

B. ALL STEEL PLATES, BARS AND SHAPES SHALL COMPLY WITH ASTM A-36.

C. STRUCTURAL PIPE SHALL COMPLY WITH ASTM A-53 GRADE B.

D. STRUCTURAL TUBE SHALL COMPLY WITH ASTM A-500 GRADE A OR ASTM A-501

E. LIGHT GAGE STEEL SHALL HAVE A MINIMUM YIELD STRESS OF 50 KSI.

F. BOLTS SHALL COMPLY WITH ASTM A-307. WHERE NOTED, HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM A-325 IN FRICTION TYPE CONNECTIONS.

G. ALL WELDS SHALL BE SHIELDED ARC WELDED ACCORDING TO AWS STANDARDS AND PERFORMED BY CERTIFIED WELDERS. USING HEAVILY COATED E70 ELECTRODES.

H. SHOP DRAWING SHOWING ALL STRUCTURAL STEEL DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

SEE SHEET S-6 FOR CONTINUATION OF NOTES.

(VII) CONCRETE MASONRY UNITS (CMU)

A. CMU. SHALL BE GRADE "N1I" HOLLOW LOAD BEARING UNITS COMPLYING WITH ASTM C-90.

B. MORTAR SHALL BE TYPE "M" PER THE 1985 UNIFORM BUILDING CODE WITH THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 P.S.I.

C. GROUT SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2500 P.S.I.

D. IN ADDITION, UNLESS OTHERWISE NOTED. CMU WALLS ARE TO BE REINFORCED AS FOLLOWS:

NORMAL THICKNESS	VERTICAL BARS	HORIZONTAL BARS
8"	#4@16" o/c	2-#4@48" o/c

E. GROUT SOLID ALL CELLS CONTAINING REINFORCING

(VIII) LUMBER:

A. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST "NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADE LUMBER AND ITS FASTENINGS", BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.

B. ALL LUMBER TERMITE AND ROT TREATED DOUGLAS FIR CONFORMING WITH THE STANDARD DRESSING AND GRADING RULES OF THE WEST COAST INSPECTION BUREAU. LUMBER GRADES SHALL BE STANDARD DOUGLAS FIR FOR NAILERS.

C. PLYWOOD THICKNESS SHALL BE AS INDICATED ON THE PLANS.

D. ALL EDGES OF PLYWOOD ROOF AND WALL SHEATHING SHALL BE BLOCKED. MINIMUM PLYWOOD NAILING TO BE 6" o/c AT ALL SUPPORTED EDGES AND 12" o/c AT INTERIOR SUPPORTS. NAILS TO BE 10d COMMON FOR ALL PLYWOOD SHEATHING.

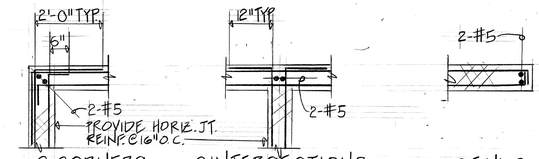
E. UNLESS OTHERWISE NOTED, SILLS ON CONCRETE OR MASONRY WALLS SHALL BE 2 INCHES NOMINAL THICKNESS, BOLTED WITH 1/2" DIAMETER BY 12" LONG BOLTS. PLACE BOLTS NOT OVER 7 INCHES FROM ENDS OF SILL PIECE AND NOT OVER 48 INCHES O.C. THERE SHALL BE AT LEAST 2 BOLTS IN EACH PIECE. SILLS FOR INTERIOR, NON-BEARING PARTITIONS THAT ARE NOT SHEAR WALLS MAY BE ANCHORED TO CONCRETE SLAB WITH POWDER DRIVEN SHOT PINS AT 32 INCHES O.C. IN LIEU OF BOLTS. PINS SHALL HAVE A MINIMUM SHANK DIAMETER OF .2-INCH AND SHALL BE SHOT THROUGH 7/8" x 14 GAGE WASHERS. MINIMUM PIN PENETRATION IN CONCRETE EQUAL TO 1.625 INCHES.

F. BOLTS IN WOOD ARE MACHINE BOLTS, UNLESS OTHERWISE NOTED. BOLT HOLES IN WOOD TO BE 1/32 INCH TO 1/16 INCH GREATER THAN BOLT. HOLES IN STEEL 1/16 LARGER THAN BOLT. PROVIDE STANDARD WASHERS UNDER HEAD AND NUT AGAINST WOOD. WASHERS NOT REQUIRED UNDER HEAD OF CARRIAGE BOLTS. ALL NUT SHALL BE TIGHTENED WHEN PLACED AND RE-TIGHTENED AT COMPLETION OF THE JOB OR IMMEDIATELY BEFORE CLOSING WITH FINISH CONSTRUCTION. ALL BOLTS AND FRAMING SHALL BE HOT DIPPED GALVANIZED.

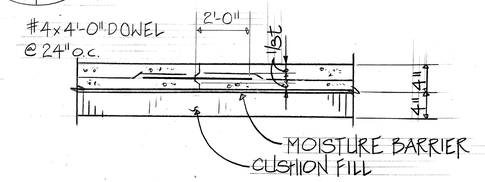
G. FRAMING HARDWARE SHALL BE SIMPSON "STRONG TIE" GALVANIZED OR APPROVED EQUAL. HARDWARE SHALL BE INSTALLED WITH NAILS OR BOLTS AS INDICATED IN THE MANUFACTURER'S CATALOG. WHERE NAIL HOLES AND BOLT HOLES HAVE BEEN PROVIDED. USE NAILS UNLESS OTHERWISE NOTED.

H. UNLESS OTHERWISE INDICATED IN THE DRAWINGS OR DETAILS, ALL NAILING SHALL BE GALVANIZED COMMON NAILS AND SHALL CONFORM TO TABLE 25-Q OF THE 1985 UNIFORM BUILDING CODE.

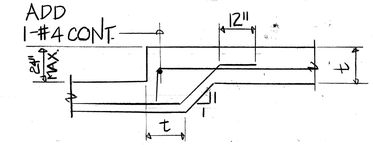
I. A 30# LAYER OF ROOFING FELT SHALL BE PLACED BETWEEN ALL WOOD MEMBERS (PLATES, POST BASES, ETC.) AND CONCRETE SURFACES.



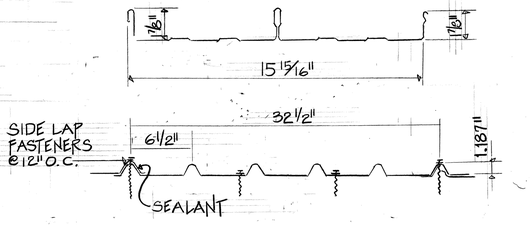
A S1 | S1 TYPICAL CMU WALL DETAILS
N.T.S.



B S2 | S1 TYP. CONSTRUCTION JT. DETAIL
N.T.S.



C S2 | S1 TYP. STEP FTG. DETAIL
N.T.S.



C S2 | S1 TYP. CORRUGATED METAL SIDING OR ROOFING
N.T.S.

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

RICHARD M. SATO & ASSOCIATES, INC.

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

* DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

AQS OFFICE BUILDING

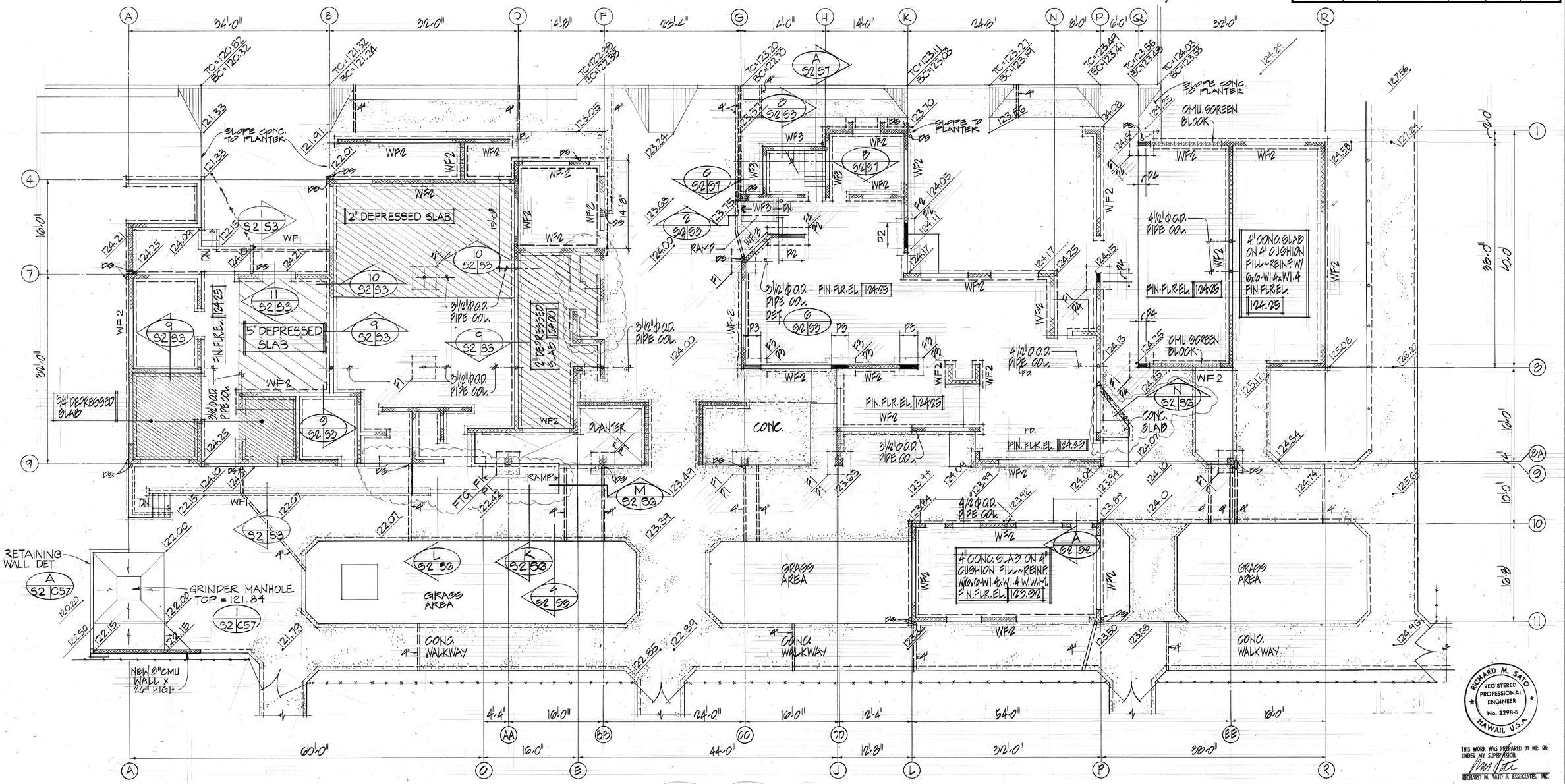
GEN. NOTES & TYP. DETAILS

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

SHEET No. S1 OF 39 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	121	191



RICHARD M. SAITO
REGISTERED PROFESSIONAL ENGINEER
No. 2298-S
HAWAII, U.S.A.

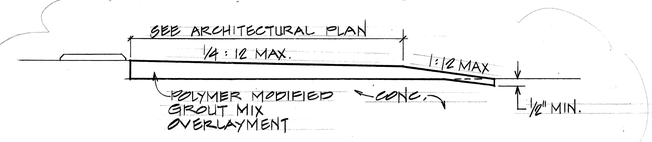
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
RICHARD M. SAITO & ASSOCIATES, INC.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

FOUNDATION PLAN

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



A S2 S2 RAMP @ DOOR
NTS.

DATE	REVISION
12-15-90	ADDED WALL & CHANGED SLAB SLOPE AT GRINDER. DELETED FD'S & FLOOR SLOPE AT DISPENSARY. ADDED DETAIL A
11-21-90	UFAS CHANGES. ADDED F.D.'S & FLOOR SLOPE AT DISPENSARY. DELETED PLANTER NEAR P/8A.
7- -90	ADDED WALK BETWEEN P&EE. DELETED PLANTER AT 9/CC.
7-9-90	ADDED ROOF DRAINAGE PIPES AT VARIOUS LOCATIONS
7-7-89	ADDED ROOM C ④Ⓕ

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

AQS OFFICE BUILDING

FOUNDATION PLAN

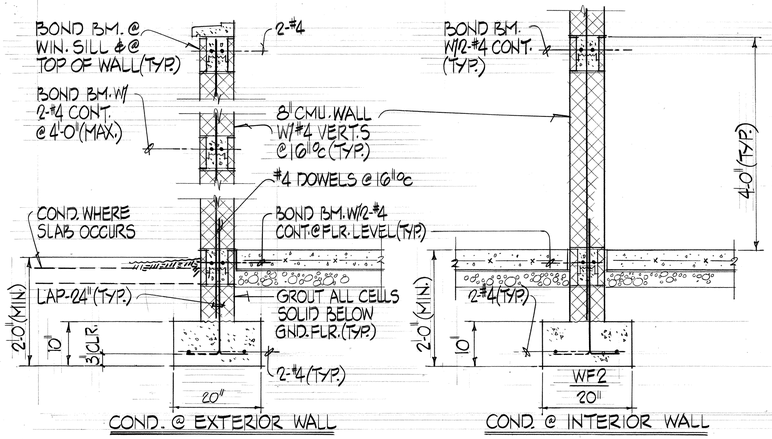
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

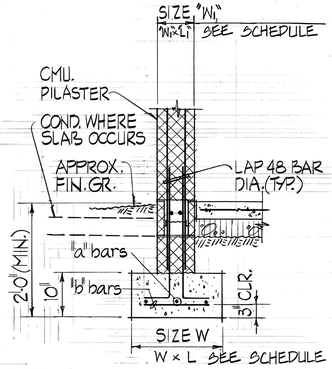
SCALE: AS NOTED DATE: JULY 1988

SHEET No. S2 OF 39 SHEETS

C.O. 121

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	122	191





CMU. PILASTER SCHEDULE

MARK	TYPE	SIZE "W"	SIZE "L"	VERT. REINF	TIES SIZE & SPACING	TIES SKETCH
P1	CMU. SOLID GROUTED	1'-0"	1'-0"	4-#5	#3 @ 8" o/c	
P2	CMU. SOLID GROUTED	8"	4'-4"	16-#4	#3 @ 8" o/c	
P3	CMU. SOLID GROUTED	8"	3'-0"	18-#5	#3 @ 8" o/c	
P4	CMU. SOLID GROUTED	8"	1'-4"	4-#5	#3 @ 8" o/c	

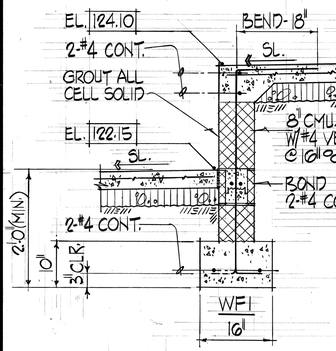
*PILASTER P2, P3 & P4 IS A PORTION OF 8" CMU WALL HAVING SPECIAL REINFORCEMENT

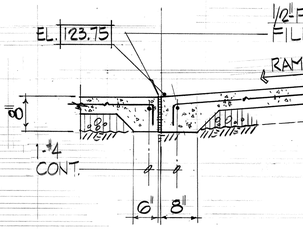
PILASTER FOOTING SCHEDULE

MARK	SIZE "W"	SIZE "L"	REINFORCEMENT "a" bars	REINFORCEMENT "b" bars
F1	4'-0"	4'-0"	3-#4	3-#4
F2	3'-0"	6'-6"	4-#4	5-#4
F3	3'-0"	5'-0"	3-#4	4-#4
F4	3'-0"	7'-0"	3-#4	6-#4

A S2|S3 TYP. CMU. WALL & WALL FOOTING (WF2) DETAILS

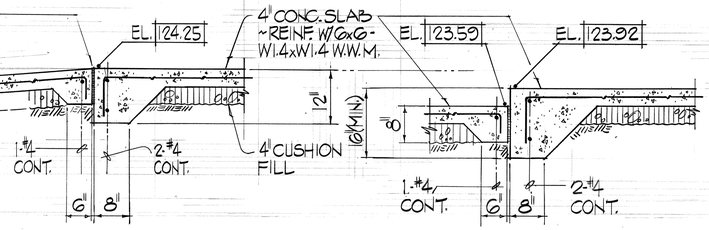
SCALE: 3/4" = 1'-0"

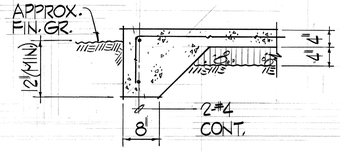


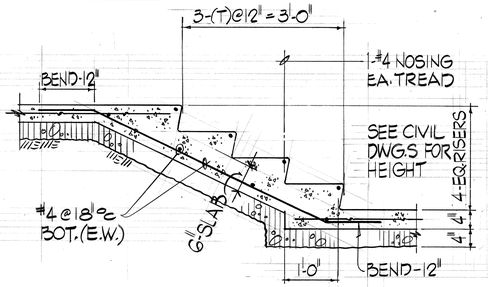


B S2|S3 PILASTER & PILASTER FOOTING SCHEDULE

NOT TO SCALE







1 S2|S3 SECTION

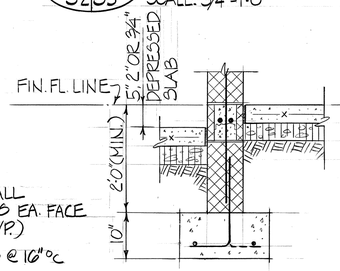
SCALE: 3/4" = 1'-0"

2 S2|S3 CONC. RAMP SECTION

SCALE: 3/4" = 1'-0"

3 S2|S3 SECTION

SCALE: 3/4" = 1'-0"



4 S2|S3 SECTION

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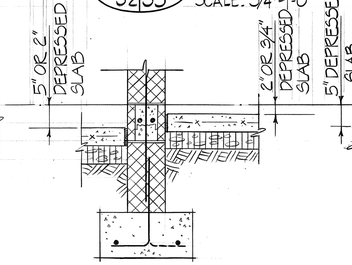
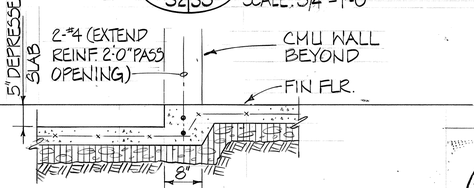
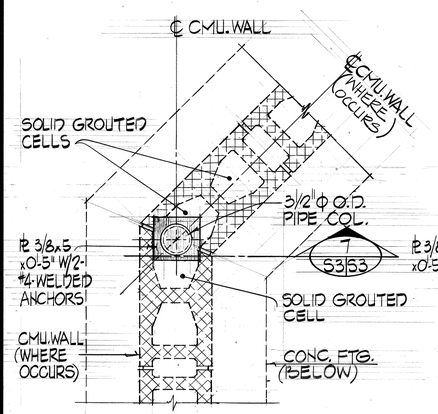
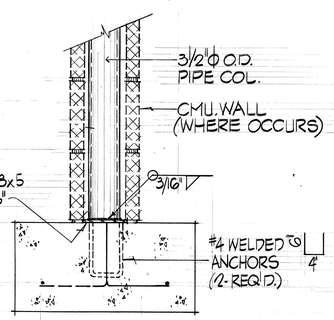


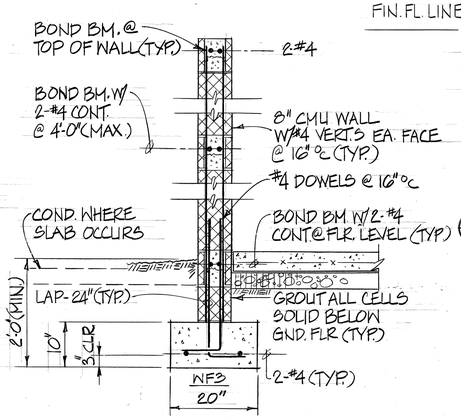
5 S2|S3 SECTION @ CONC. STEP

SCALE: 3/4" = 1'-0"









6 S2|S3 POST BASE CONN. DET.

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

7 S3|S3 SECTION

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

8 S2|S3 CMU WALL (WF3) AT STAIR

SCALE: 3/4" = 1'-0"

DATE	REVISION

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

AQS OFFICE BUILDING

FOUNDATION SECTIONS

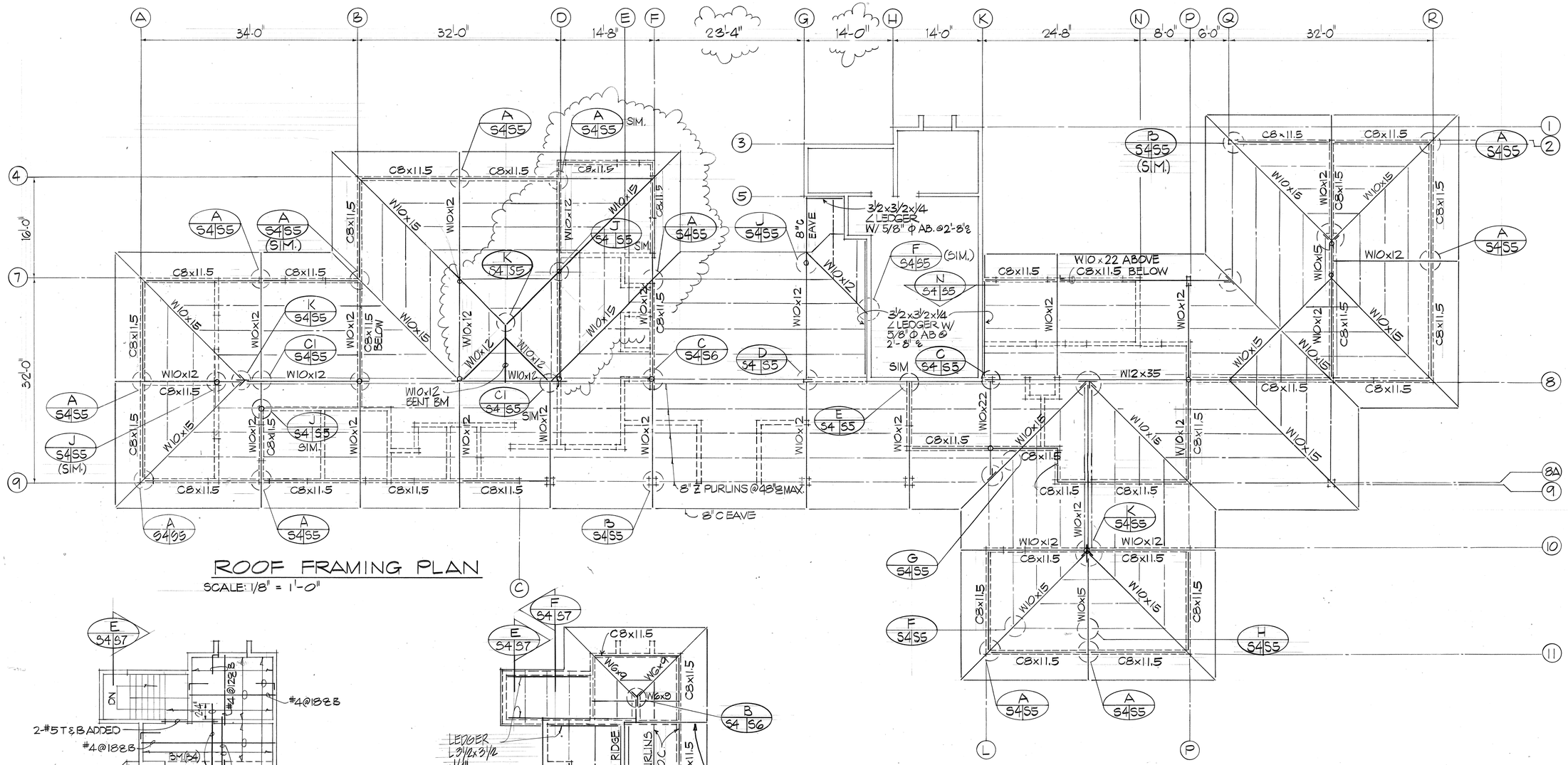
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

SHEET No. S3 OF 39 SHEETS

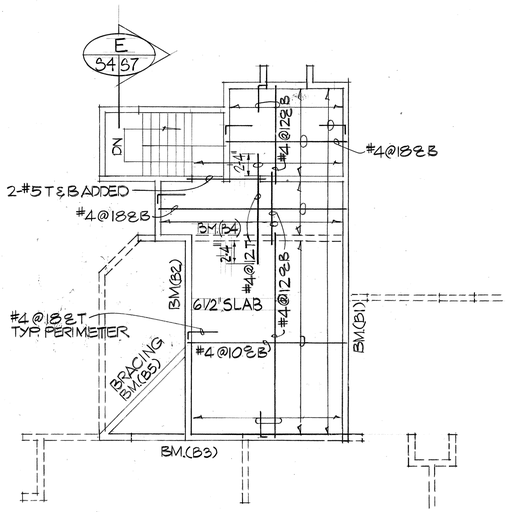
ORIGINAL PLAN | NOTE BOOK | No.
SURVEY PLOTTED BY | DRAWN BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	123	191



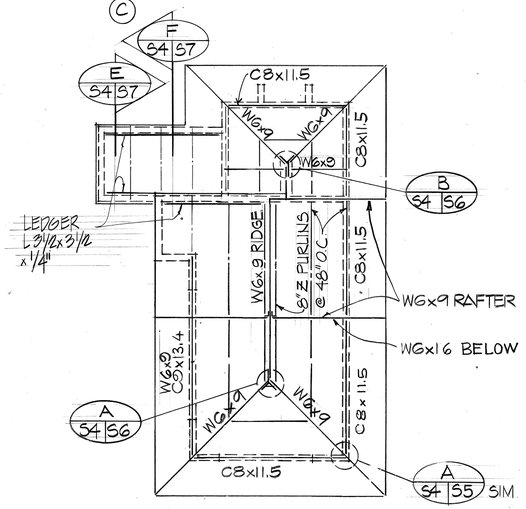
ROOF FRAMING PLAN

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



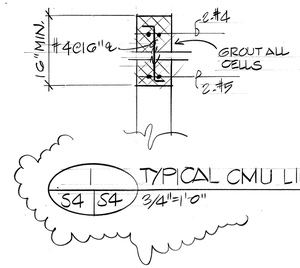
2ND FLOOR FRAMING PLAN

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



2ND FLOOR ROOF FRAMING PLAN

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



1 S4|S4 TYPICAL CMU LINTEL (U.O.N) 3/4"=1'-0"

DATE	REVISION
7-7-89	ADDED ROOF AT NEW ROOM G LINE ④Ⓕ & ADDED CMU LINTEL DETAIL.

ORIGINAL PLAN

NOTE BOOK — No.

SURVEY PLOTTED BY — DATE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

AQS OFFICE BUILDING

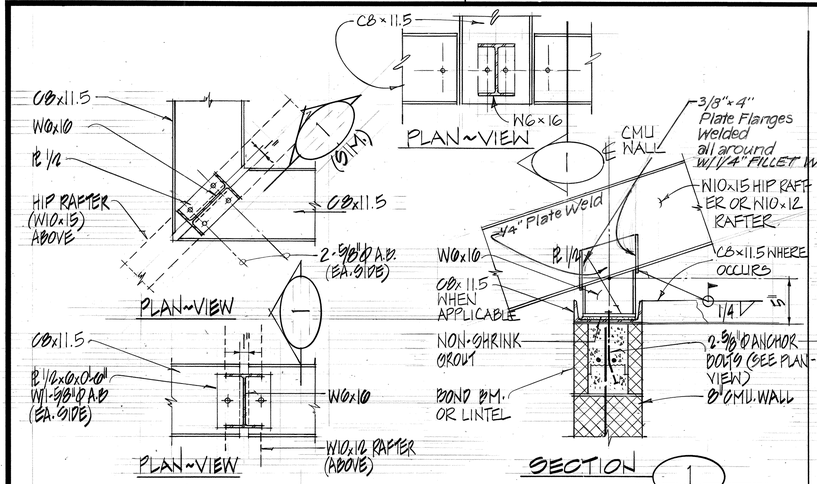
SECOND FLR. & ROOF FRAMING PLAN

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

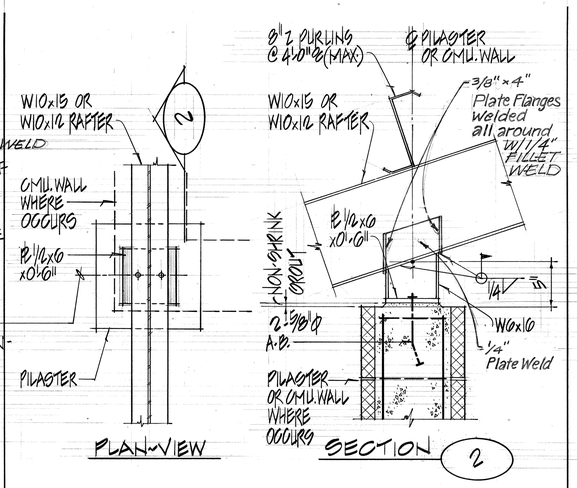
SCALE: AS NOTED — DATE: JULY 1988

SHEET No. S4 OF 39 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	124	191



A S4|S5 DETAIL
SCALE: 1½"=1'-0"



B S4|S5 DETAIL
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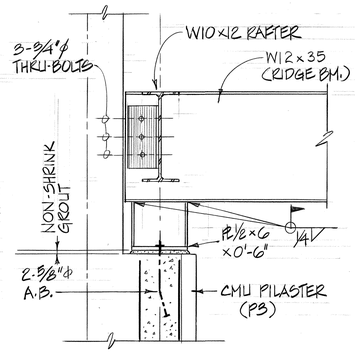
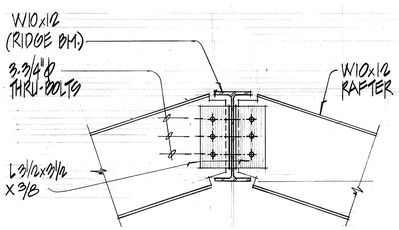


C S4|S5 ELEVATION
SCALE: 1½"=1'-0"



C1 S4|S5 DETAIL
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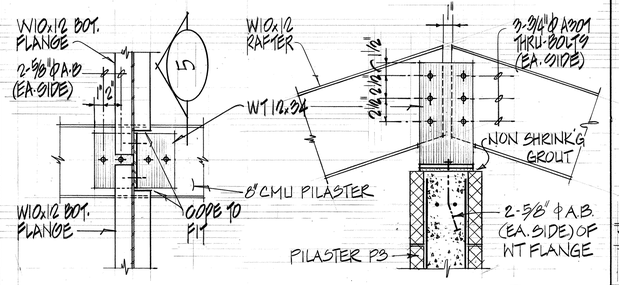

D S4|S5 DETAIL
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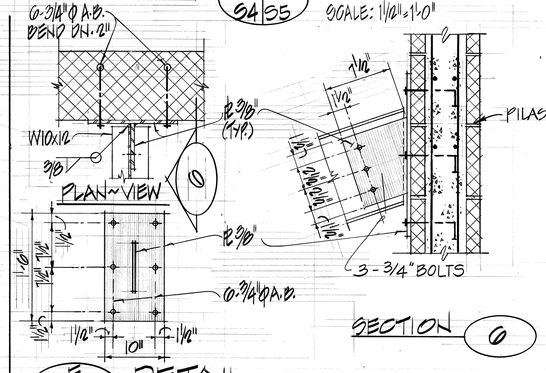
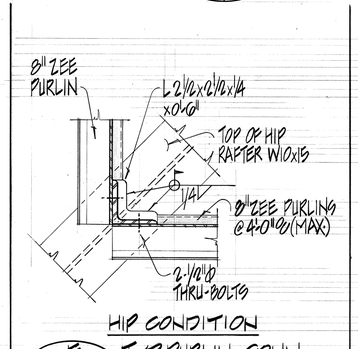
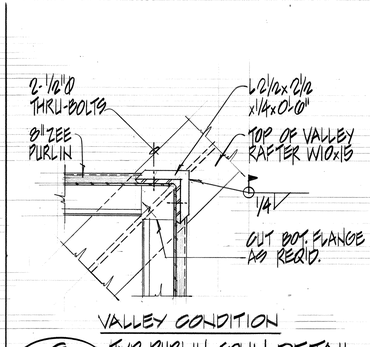


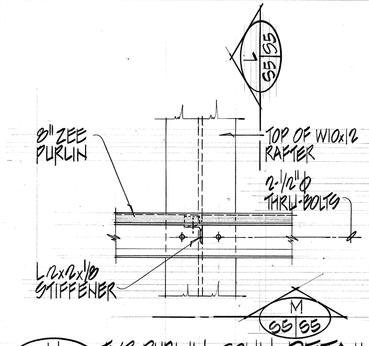
E S4|S5 DETAIL
SCALE: 1½"=1'-0"



F S4|S5 TYP. PURLIN CONN. DET.
SCALE: 1½"=1'-0"



G S4|S5 TYP. PURLIN CONN. DETAIL
SCALE: 1½"=1'-0"



H S4|S5 TYP. PURLIN CONN. DETAIL
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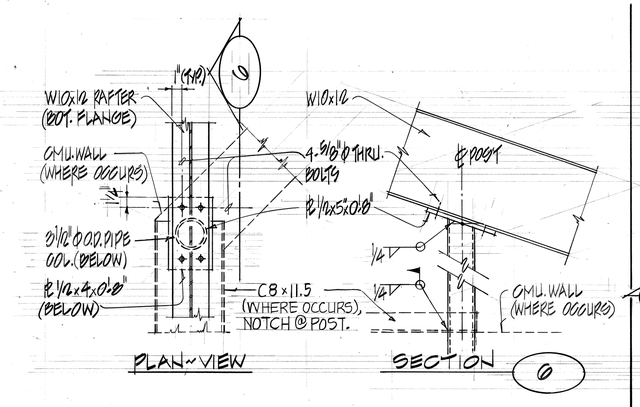

J S4|S5 DETAIL
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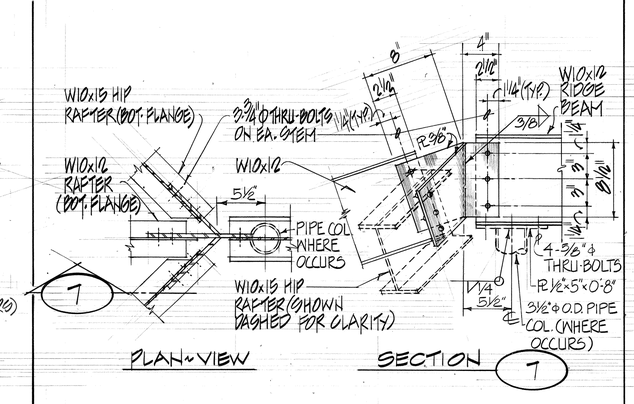
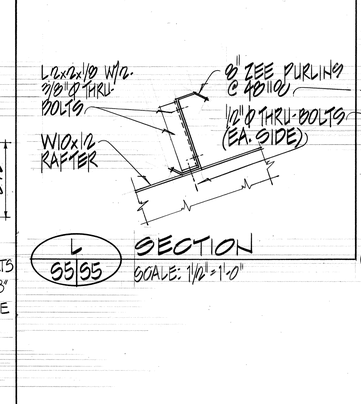
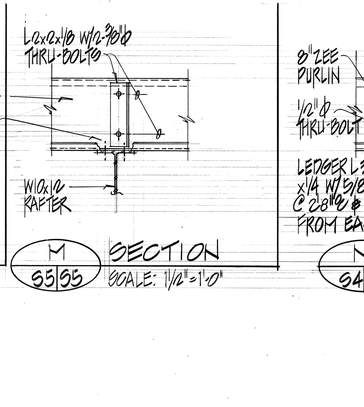


K S4|S5 DETAIL
SCALE: 1½"=1'-0"



L S5|S5 SECTION
SCALE: 1½"=1'-0"



M S5|S5 SECTION
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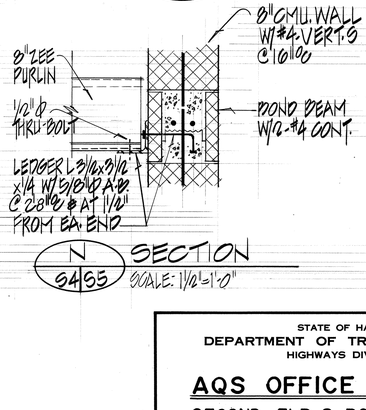


N S4|S5 SECTION
SCALE: 1½"=1'-0"

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

RICHARD M. SATO & ASSOCIATES, INC.

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

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

AQS OFFICE BUILDING

SECOND FLR. & ROOF SECTIONS

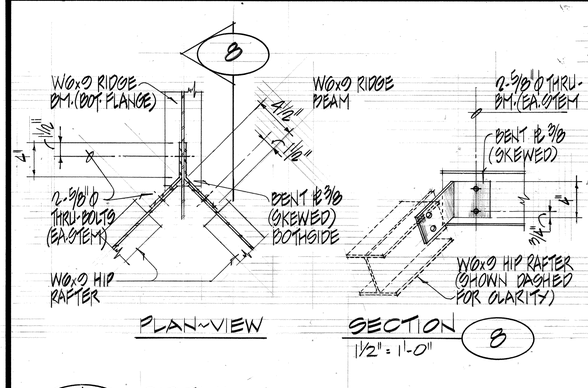
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

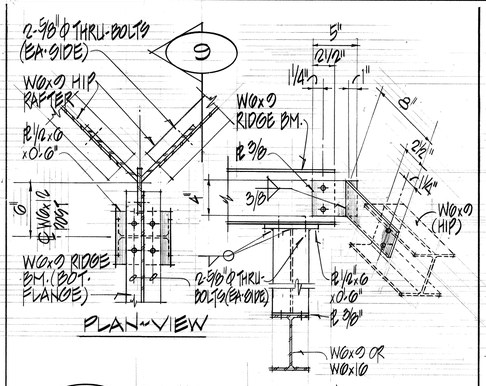
SCALE: AS NOTED DATE: JULY 1988

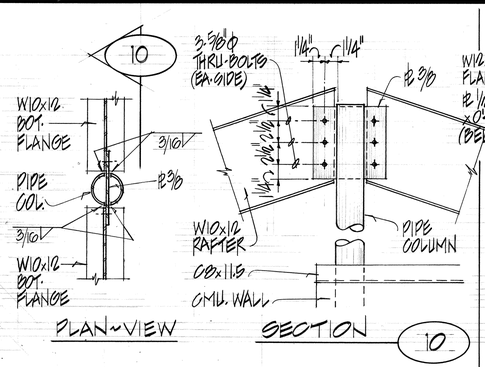
SHEET No. S5 OF 39 SHEETS

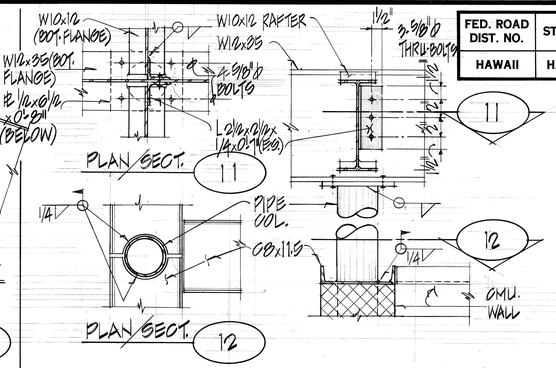
"AS-BUILT"

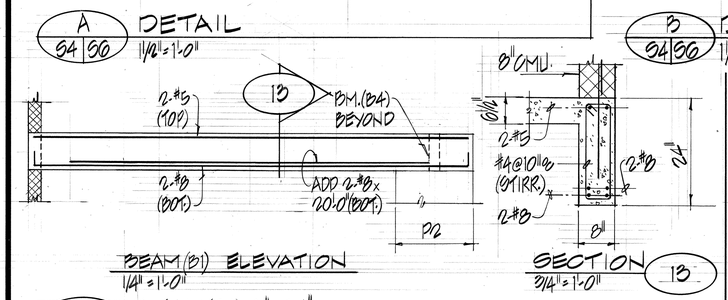
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	125	191

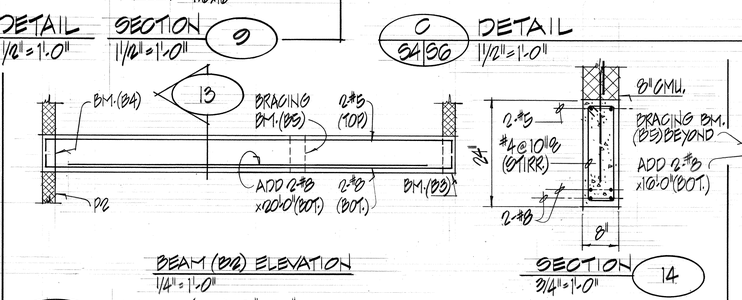


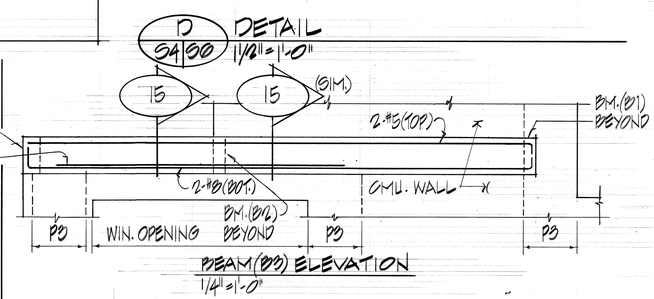


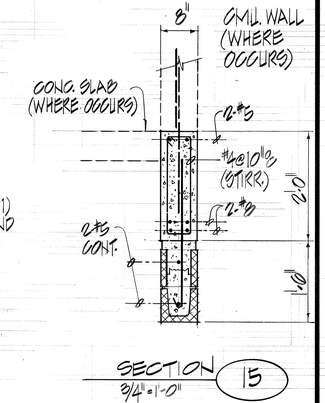


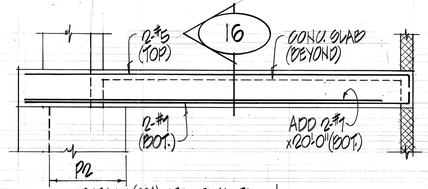


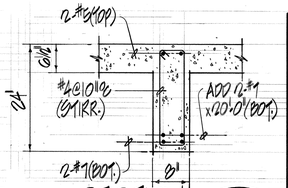


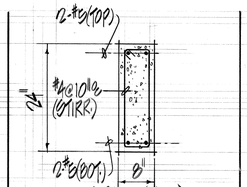


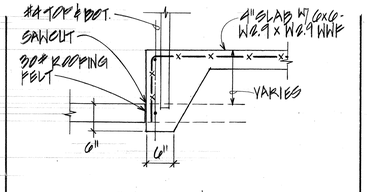


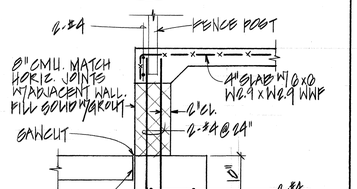


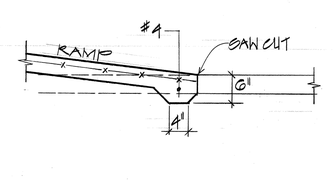


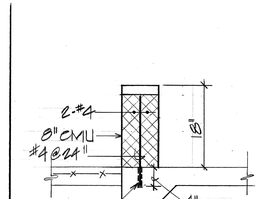












GENERAL NOTES (CONT.)

(VI) STRUCTURAL STEEL:

I. UNLESS INDICATED OTHERWISE, ALL STEEL DESIGNATED TO BE GALVANIZED SHALL BE HOT-DIPPED GALVANIZED CONFORMING TO ASTM A-123 AFTER FABRICATION, G-90 COATING WEIGHT. UNLESS INDICATED OTHERWISE, THE FOLLOWING STEEL SHALL BE GALVANIZED:
   1. STEEL EXPOSED TO GROUND, WEATHER OR MOISTURE.
   2. ANCHORS, ANCHOR BOLTS AND ANCHOR PLATES, EMBEDDED IN CONCRETE OR MASONRY.
   3. ALL STEEL IN KENNELS AND PENS.

J. WHEN REQUIRED TO BE GALVANIZED, LIGHT GAGE STEELS AND OTHER FERROUS METAL ITEMS WHICH MAY BE DAMAGED BY HOT-DIPPED GALVANIZING SHALL BE GIVEN TWO COATS OF ZRC ZINC RICH COATING. ALL PROCEDURES, INCLUDING PREPARATION, APPLICATION AND CURING, SHALL BE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.

K. PIPE CONNECTIONS FOR PIPE FRAMES AND RAILS SHALL BE BUTT OR FILLET WELDED ALL AROUND, WITH SIZE OF WELDS EQUAL TO THE THICKNESS OF THE METAL, UNLESS NOTED OTHERWISE. GRIND SMOOTH AND APPLY 2 COATS OF ZINC RICH COATING.

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

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
RICHARD M. SATO & ASSOCIATES, INC.

DATE	REVISION
11-21-90	ADDED DETAILS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

AQS OFFICE BUILDING
SECOND FLR. & ROOF SECTIONS

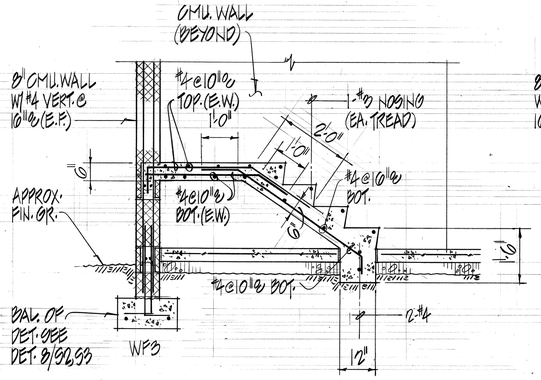
INTERSTATE ROUTE H-3
PROJECT NO I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

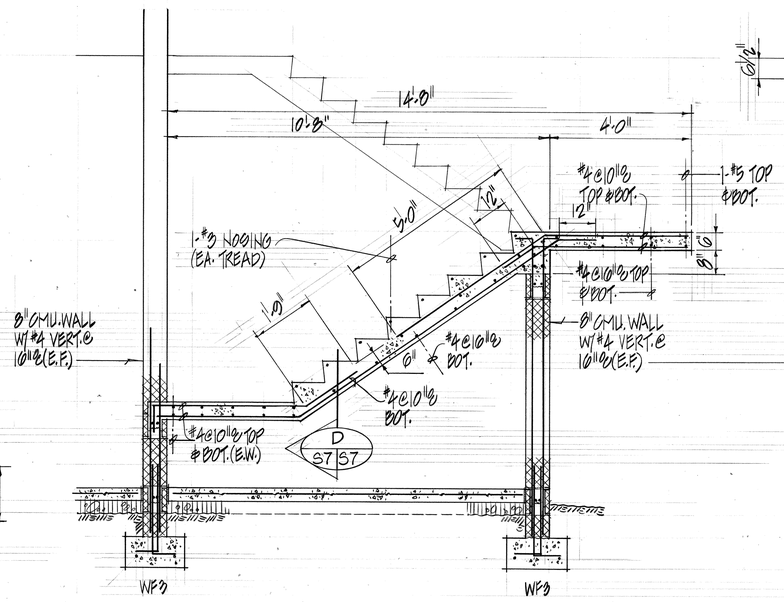
SHEET No. S6 OF 39 SHEETS

C.O. 125

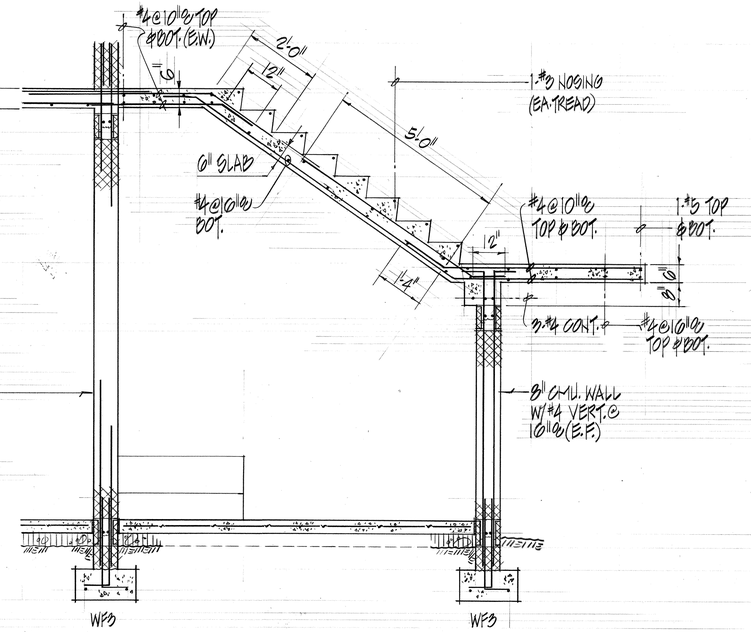
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	126	191



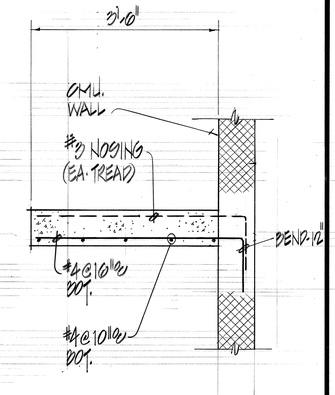
A S2|S7 STAIR SECTION
SCALE: 1/2" = 1'-0"



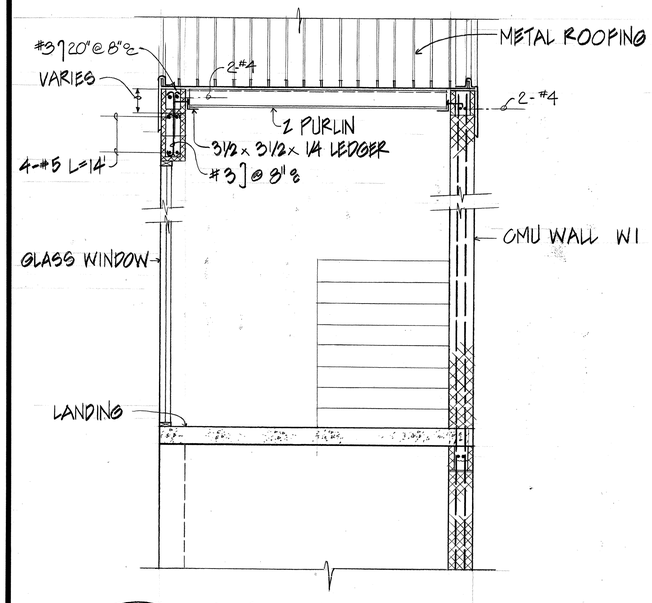
D S2|S7 STAIR SECTION
SCALE: 1/2" = 1'-0"



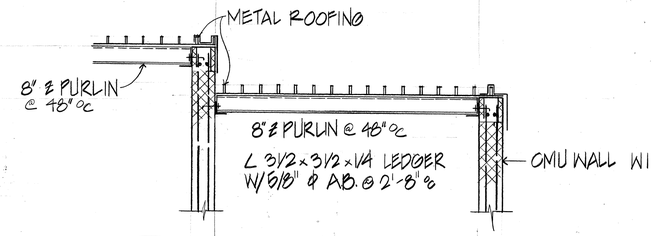
C S2|S7 STAIR SECTION
SCALE: 1/2" = 1'-0"



D S7|S7 SECTION
SCALE: 3/4" = 1'-0"



E S4|S7 SECT. @ STAIR
SCALE: 1/2" = 1'-0"



F S4|S7 SECTION
SCALE: 1/2" = 1'-0"

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

AQS OFFICE BUILDING

STAIR SECTION & MISC. DETAILS

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

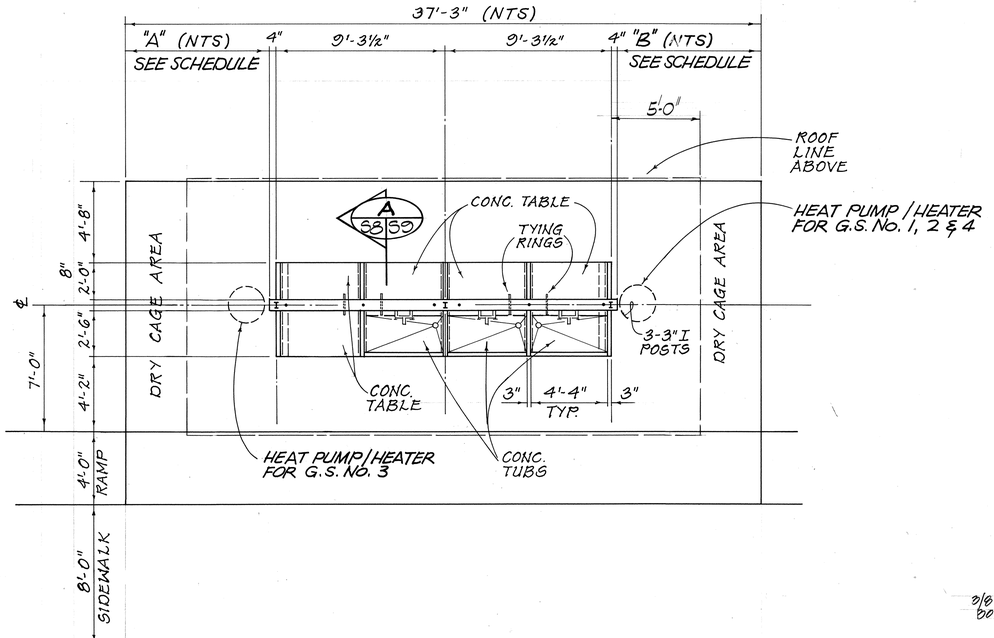
SCALE: AS NOTED DATE: JULY 1988

SHEET No. S7 OF 39 SHEETS

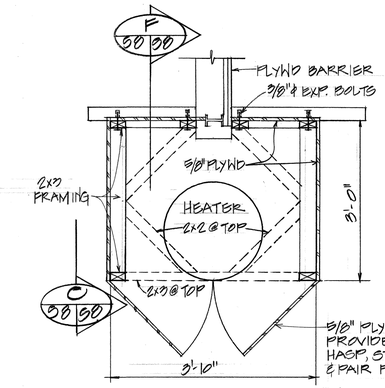
DATE	REVISION

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

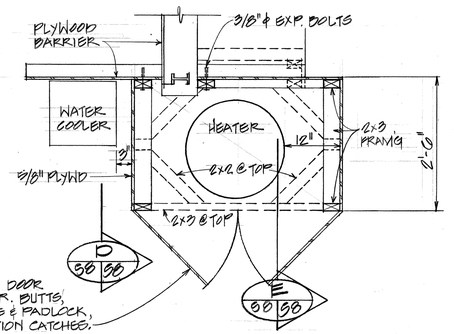
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	127	191



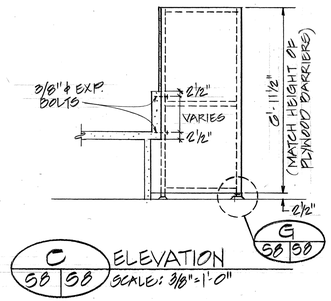
SCHEDULE		
GROOMING SHED NO.	"A"	"B"
1	8'-0"	10'-0"
2	8'-0"	10'-0"
3	10'-0"	8'-0"
4	8'-0"	10'-0"



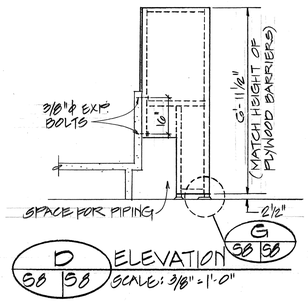
A 58|58 PLAN @ GROOMING SHED 1, 3 & 4
SCALE: 3/4"=1'-0"



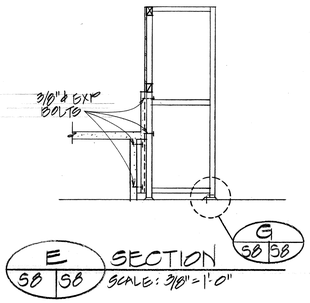
B 58|58 PLAN @ GROOMING SHED 2
SCALE: 3/4"=1'-0"



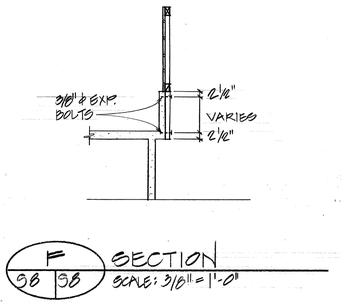
C 58|58 ELEVATION
SCALE: 3/8"=1'-0"



D 58|58 ELEVATION
SCALE: 3/8"=1'-0"



E 58|58 SECTION
SCALE: 3/8"=1'-0"



F 58|58 SECTION
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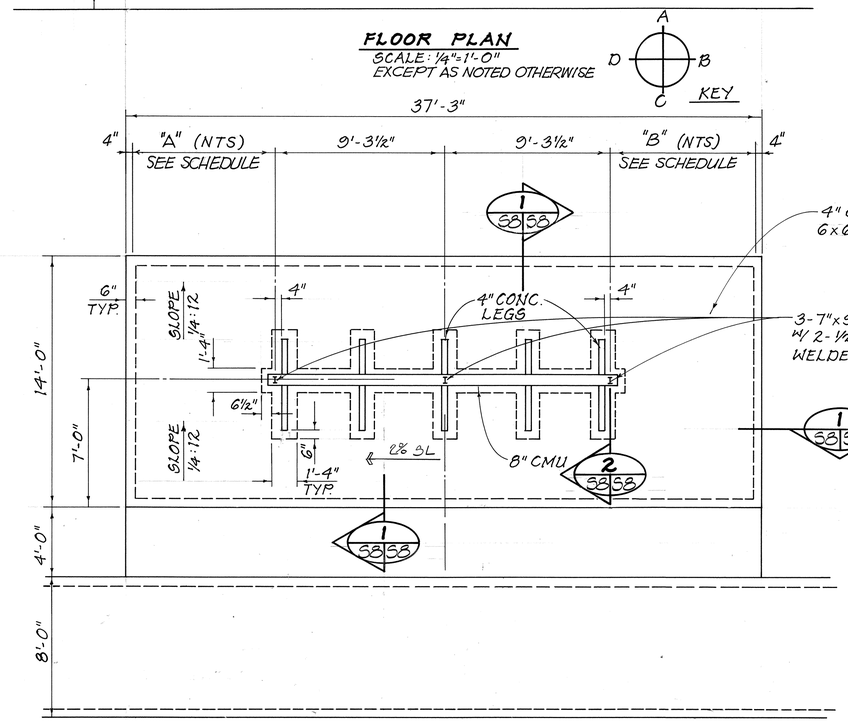
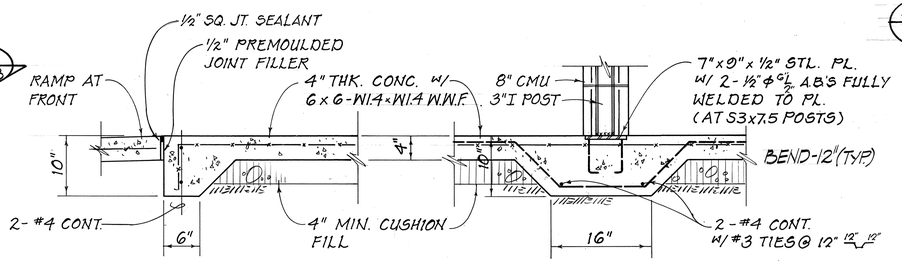
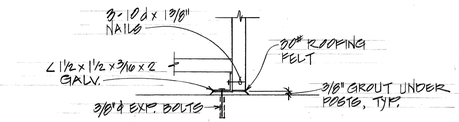


FOUNDATION PLAN
SCALE: 1/4"=1'-0" EXCEPT AS NOTED OTHERWISE



TYP. FTG. DETAIL 1 58|58
SCALE: 1"=1'-0"

FTG. @ POST DET. 2 58|58
SCALE: 1"=1'-0"



G 58|58 SCALE: 1½"=1'-0"

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
RICHARD M. SATO & ASSOCIATES, INC.

DATE	REVISION
12-15-90	ADDED DET. A,B,C,D,E,F,G

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GROOMING SHED
FLR. & FDN. PLAN & DETAILS

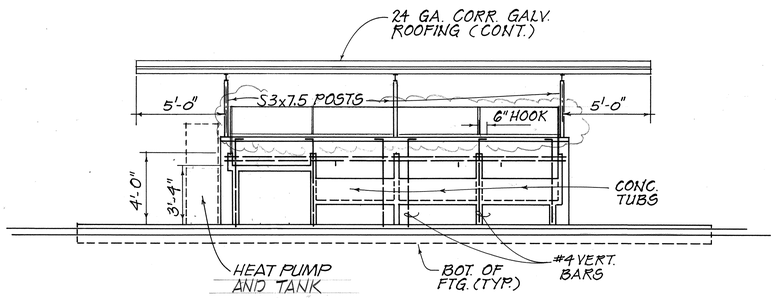
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

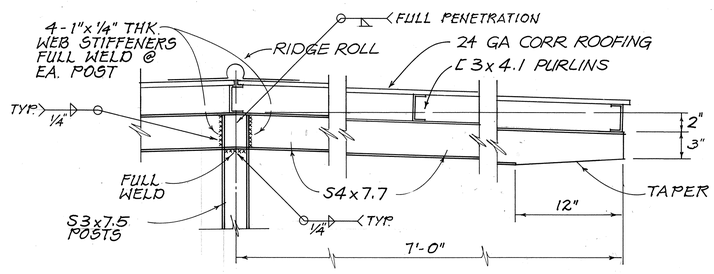
SHEET No. S8 OF 39 SHEETS

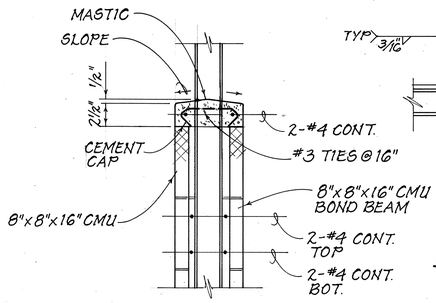
ORIGINAL PLAN
NOTE BOOK
No.
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

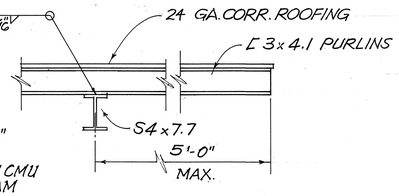
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	128a	191



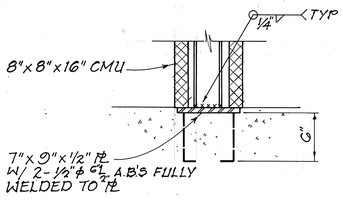
C



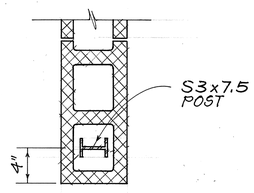




SECTION @ ROOF GABLE ENDS



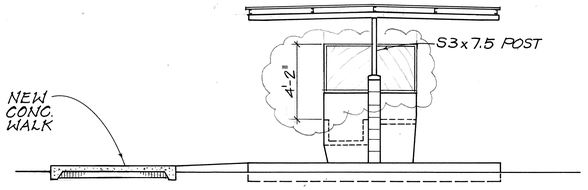
SECTION



PLAN

COLUMN & ROOF FRAMING DETAIL

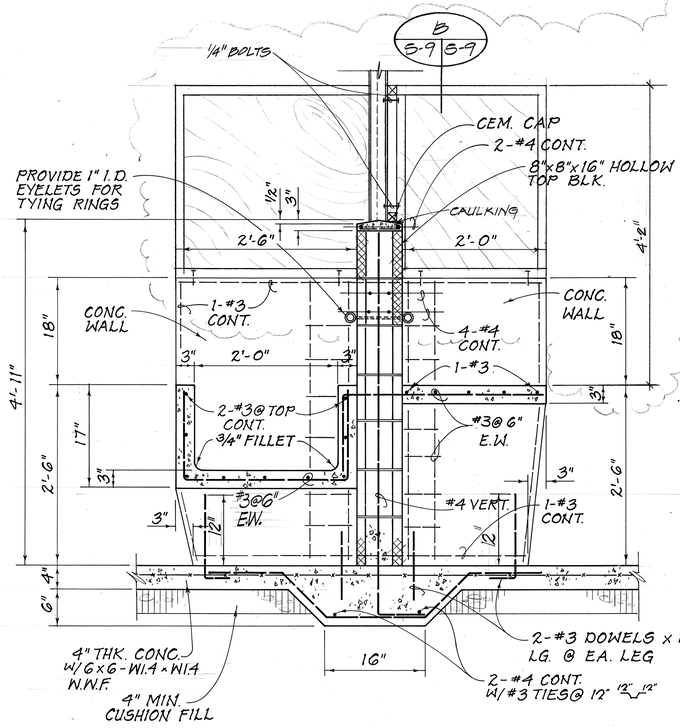
SCALE: 1 1/2" = 1'-0"

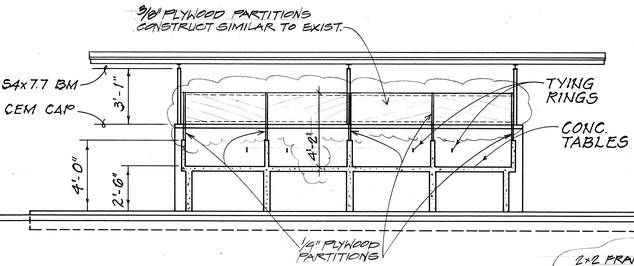


B / D - OPPOSITE HAND

EXTERIOR ELEVATIONS

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





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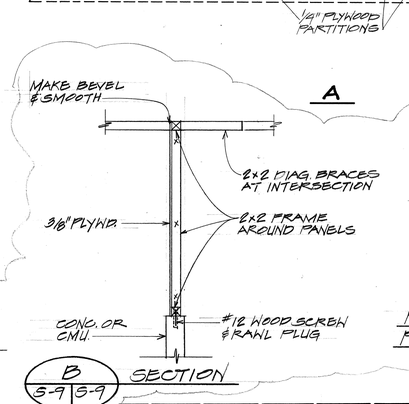
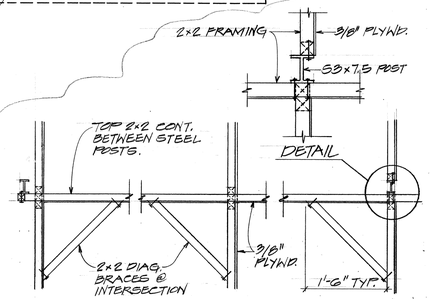
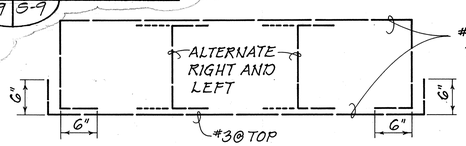


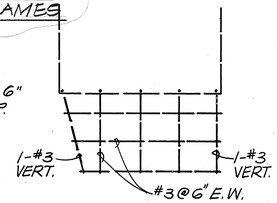
B S-9 S-9 SECTION



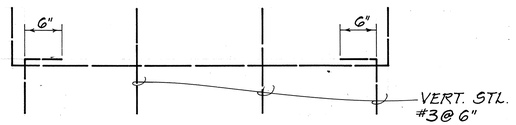
PLAN OF PLYWOOD PARTITION FRAMES



PLAN



SIDE ELEVATION



FRONT ELEVATION

REINFORCING DETAIL FOR TUB

NO SCALE

SPECIAL NOTE:

GROUT ALL CELLS SOLID, EXCEPT CELLS CONTAINING HOT WATER PIPES. DO NOT INSTALL HOT WATER PIPES IN REINFORCED CELLS.

SECTION A (S8 | S9)

SCALE: 1"=1'-0"

DATE	REVISION
9-19-90	ADDED WOOD PARTITIONS

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

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RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GROOMING SHED

EXTERIOR ELEVATION SECT. & DET.

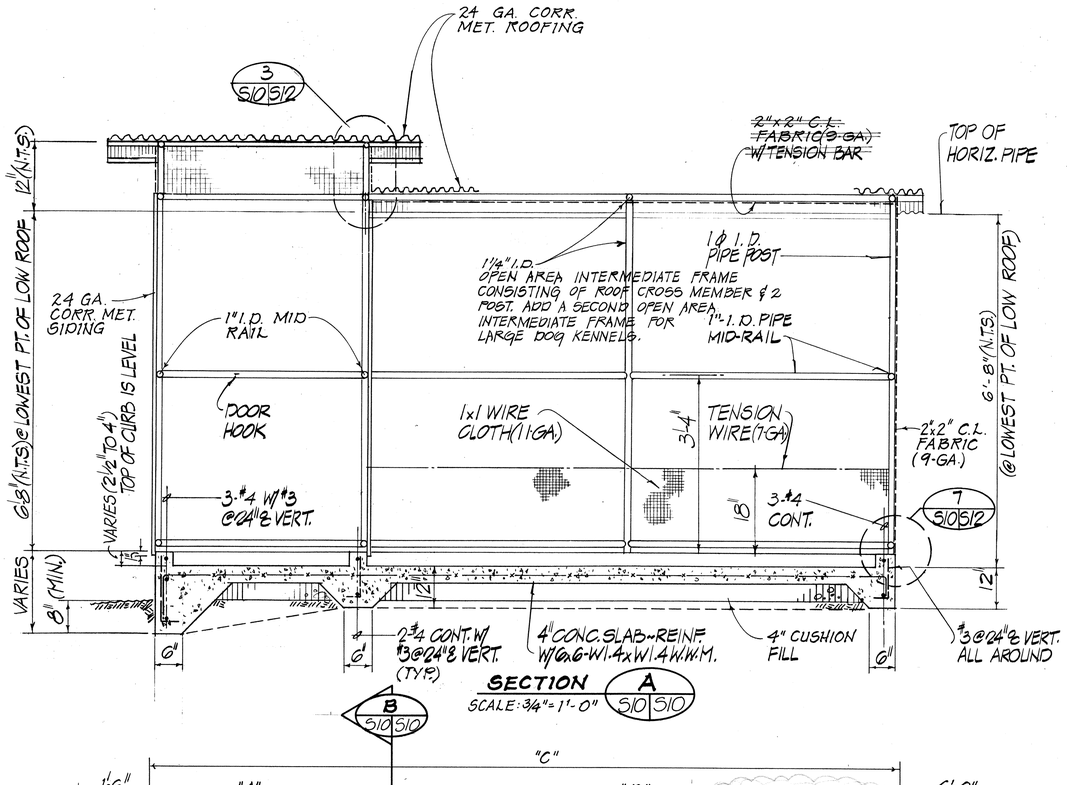
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

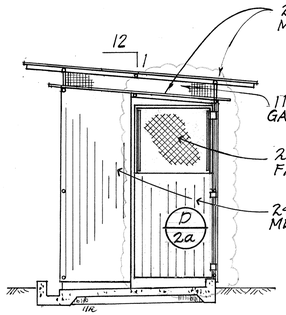
SCALE: AS NOTED DATE: JULY 1988

SHEET No. S9 OF 39 SHEETS

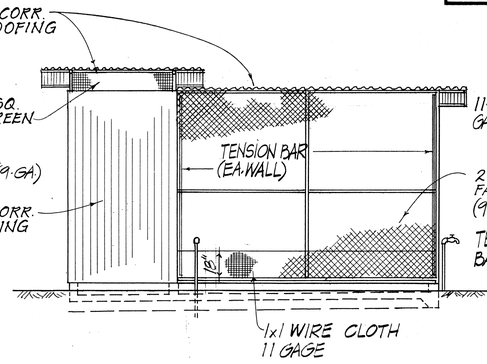
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	129a	190

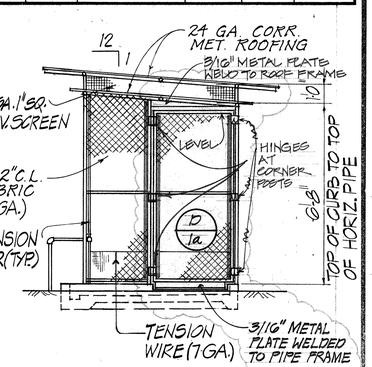




SECTION B
S10 S10



SIDE ELEVATION

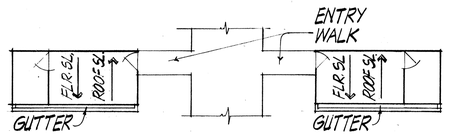


FRONT ELEVATION

EXTERIOR ELEVATIONS

SCALE: 3/8"=1'-0"

NOTE:
1- TENSION BAR FOR CHAIN LINK FABRIC: 3/16x3/4" FLAT BAR W/TENSION BANDS AT 12" ℄ GALVANIZED.



LEFT HANDED DOG KENNEL

RIGHT HANDED DOG KENNEL

NOTE: SEE SITE PLAN FOR ORIENTATION

DOG KENNEL SIZE	DIMENSIONS				
	"A"	"B"	"C"	"D"	
SMALL	4'-0"	10'-0"	14'-0"	6'-0"	
MEDIUM	6'-0"	14'-0"	20'-0"	6'-0"	
LARGE	6'-0"	20'-0"	26'-0"	6'-0"	

DATE	REVISION
9-17-90	CHANGED DOOR OPENING WIDTH TO 3'-0" AND DOORS TO FIT.
11-4-88	IN SECT. A, CHANGED POST & FRAME NOTES. IN SCHEDULE, DELETED DIMENSION E

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RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UFAS DOG KENNELS

PLAN, (SMALL, MEDIUM & LARGE)
SECT. & EXTERIOR ELEV.

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

SHEET No. S10 OF 39 SHEETS

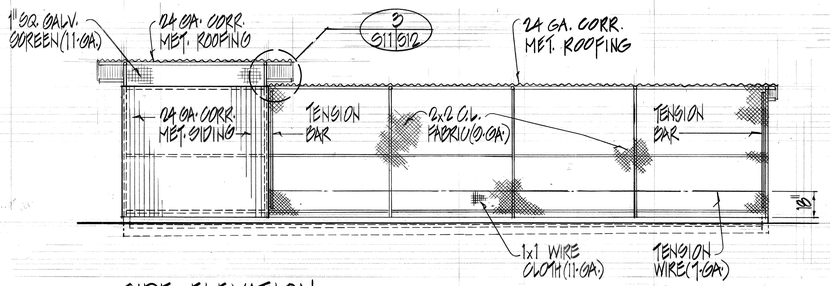
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

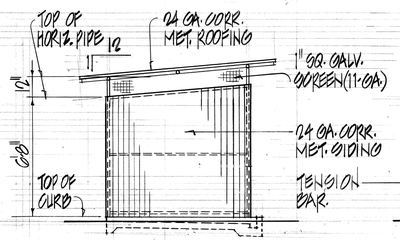
"AS-BUILT" 129a

9/90

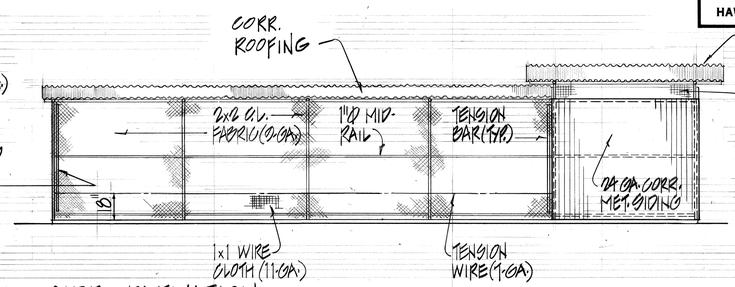
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	130	191



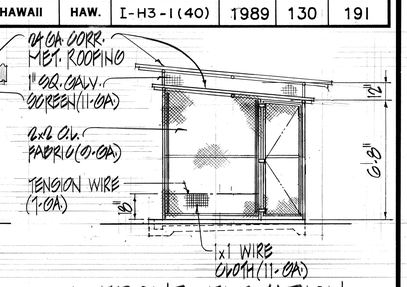
SIDE ELEVATION
SCALE: 1/4" = 1'-0"



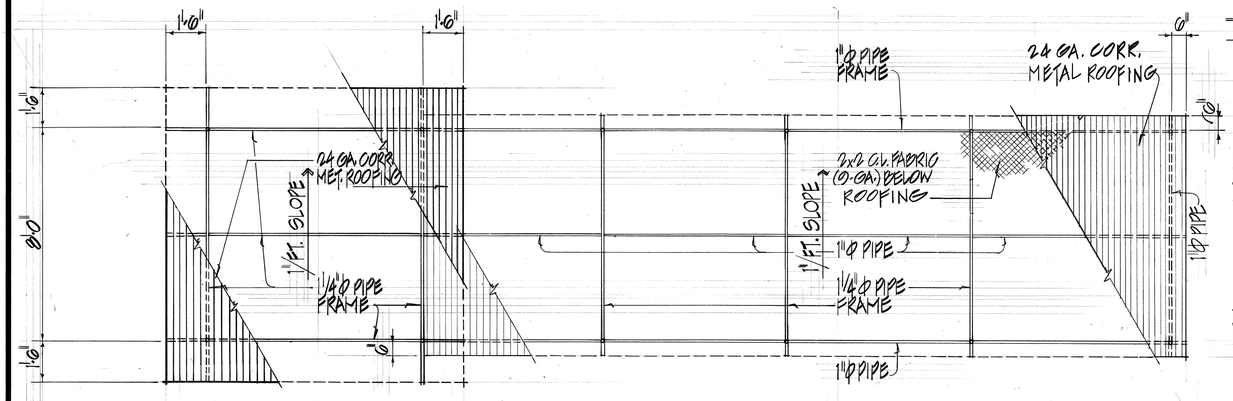
REAR ELEVATION
SCALE: 1/4" = 1'-0"



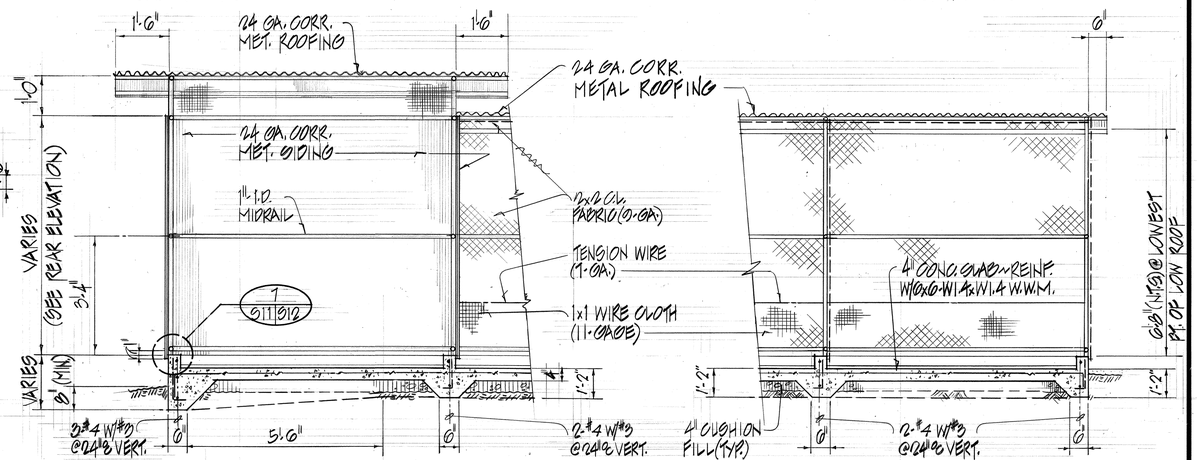
SIDE ELEVATION
SCALE: 1/4" = 1'-0"



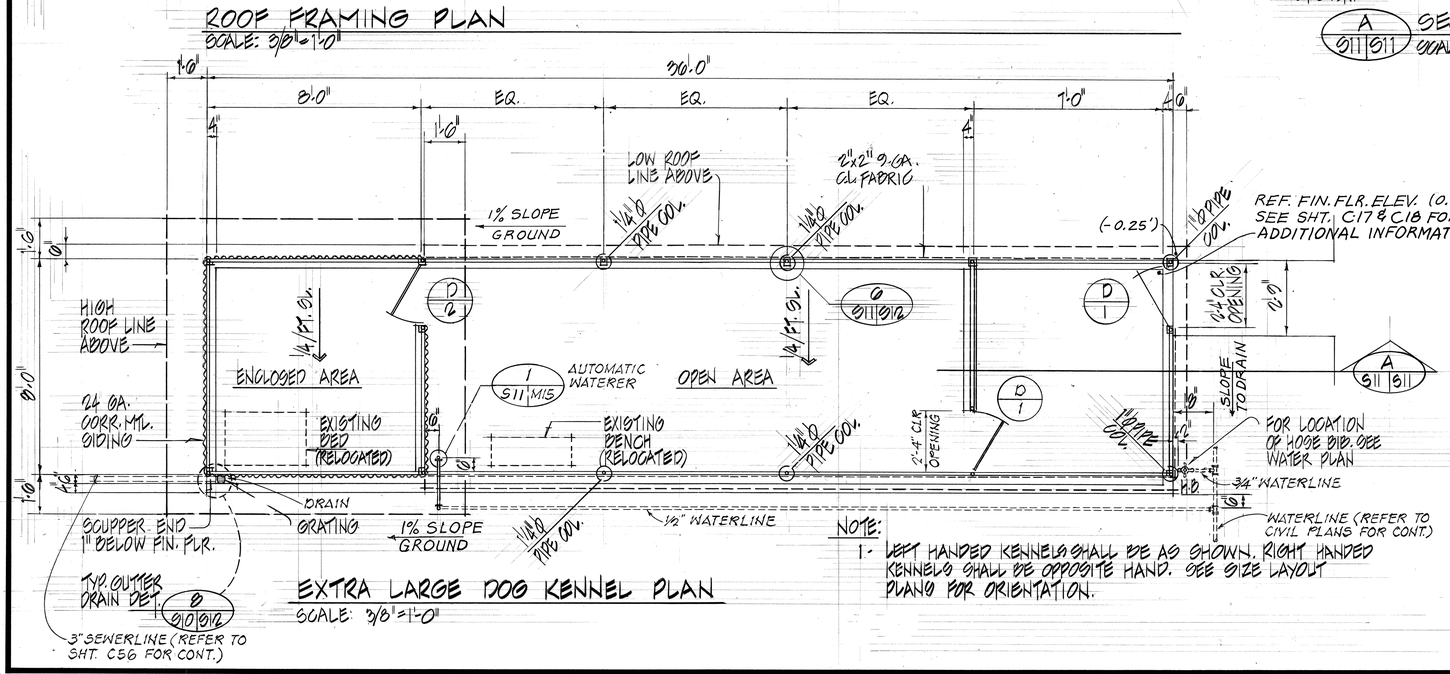
FRONT ELEVATION
SCALE: 1/4" = 1'-0"



ROOF FRAMING PLAN
SCALE: 3/8" = 1'-0"



A S11 S11 SECTION
SCALE: 1/2" = 1'-0"



EXTRA LARGE DOG KENNEL PLAN
SCALE: 3/8" = 1'-0"

NOTE:
1- LEFT HANDED KENNELS SHALL BE AS SHOWN. RIGHT HANDED KENNELS SHALL BE OPPOSITE HAND. SEE SITE LAYOUT PLANS FOR ORIENTATION.

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

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

RICHARD M. SATO & ASSOCIATES, INC.

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DOG KENNELS

(EXTRA LARGE) PLAN, SECT. & EXTERIOR ELEV.

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

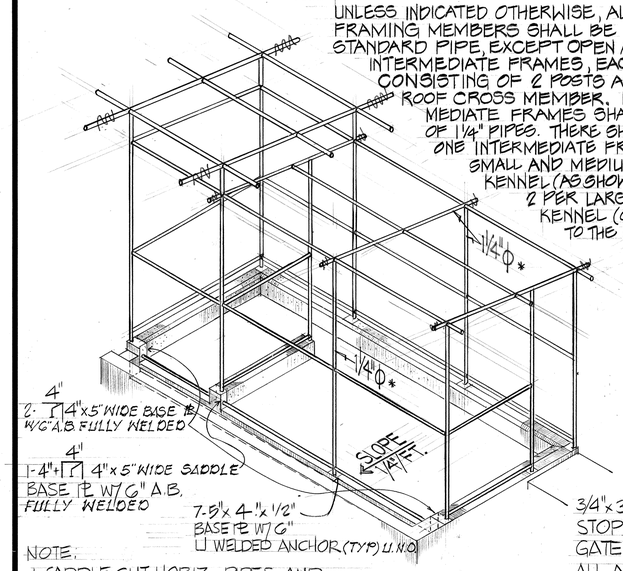
SCALE: AS NOTED DATE: JULY 1988

SHEET No. S11 OF 39 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	131	191

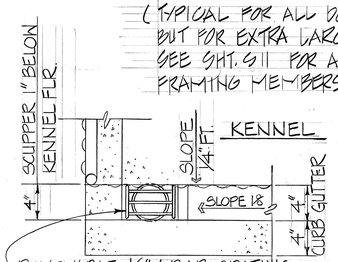
NOTE:
UNLESS INDICATED OTHERWISE, ALL PIPE FRAMING MEMBERS SHALL BE 1" STANDARD PIPE, EXCEPT OPEN AREA INTERMEDIATE FRAMES, EACH CONSISTING OF 2 POSTS AND A ROOF CROSS MEMBER. INTERMEDIATE FRAMES SHALL BE OF 1¼" PIPES. THERE SHALL BE ONE INTERMEDIATE FRAME PER SMALL AND MEDIUM DOG KENNEL (AS SHOWN) AND 2 PER LARGE DOG KENNEL (ONE ADDED TO THE ONE SHOWN).



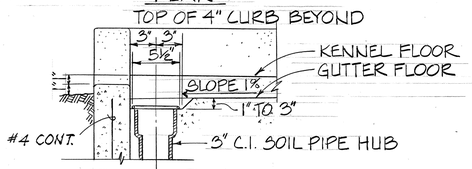
NOTE:
1- SADDLE-CUT HORIZ. PIPES AND BUTT-WELD ALL CONNECTIONS.
2- BASE PL SHALL BE FLUSH W/ CURB SURFACES.

1 S-12|S-12 TYPICAL FRAMING PLAN
N.T.S.

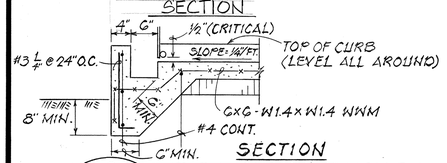
NOTE:
(TYPICAL FOR ALL DOG KENNELS. BUT FOR EXTRA LARGE KENNELS, SEE SHT. S-11 FOR ADDITIONAL FRAMING MEMBERS)



PLAN

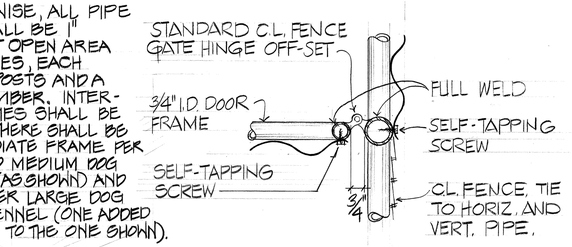


SECTION

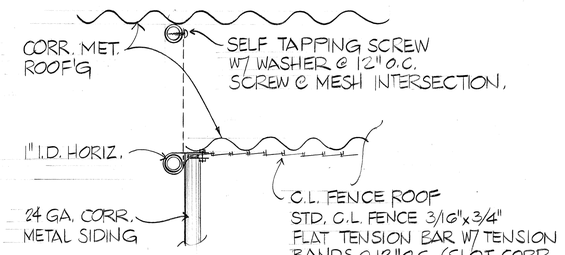


SECTION

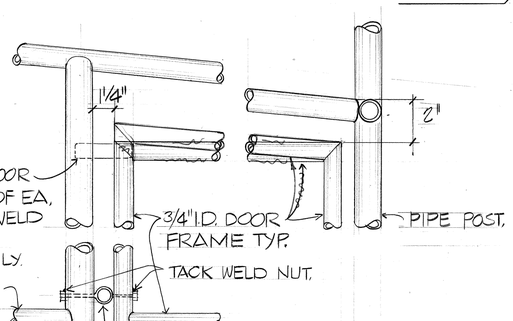
8 S10|S12 DOG KENNEL GUTTER DRAIN DET.
SCALE: 1½"=1'-0"



2 S-12|S-12 DOOR HINGE DETAIL
N.T.S.



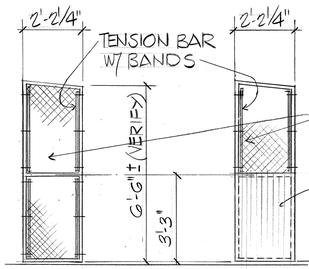
3 S-11|S-12 CONN. DETAIL
N.T.S.



PLAN

5 S-12|S-12 LATCH & DOOR STOP DETAIL
N.T.S.

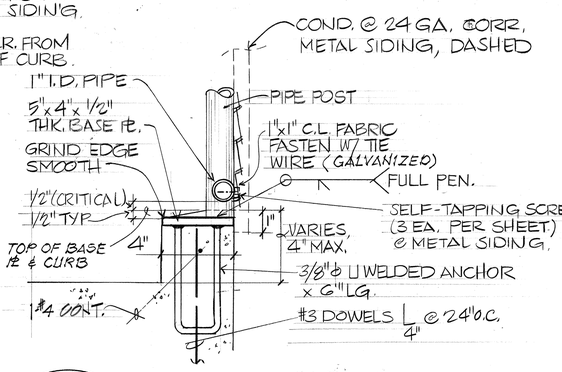
S-10



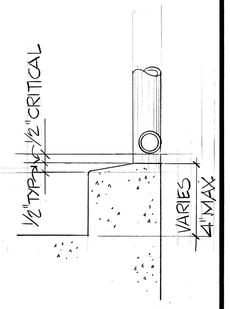
D/1 D/2

NOTE:
1- VERIFY ALL DIMENSIONS.
2- INSTALL WIRE GATE HOOK & EYE ON GATE D/2 IN OPEN POSITION, WELD TO FRAME.

DOOR SCHEDULE
N.T.S.
3-Top Rail of Door Frame shall be parallel to Header Pipe, Spaced 2" Top to Top of Pipes.



6 S-11|S-12 CURB DETAIL @ POST.
N.T.S.
S-10



7 S-11|S-12 TYP. CURB DET.
N.T.S.
S-10

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

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DOG KENNELS
MISC. DETAILS

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

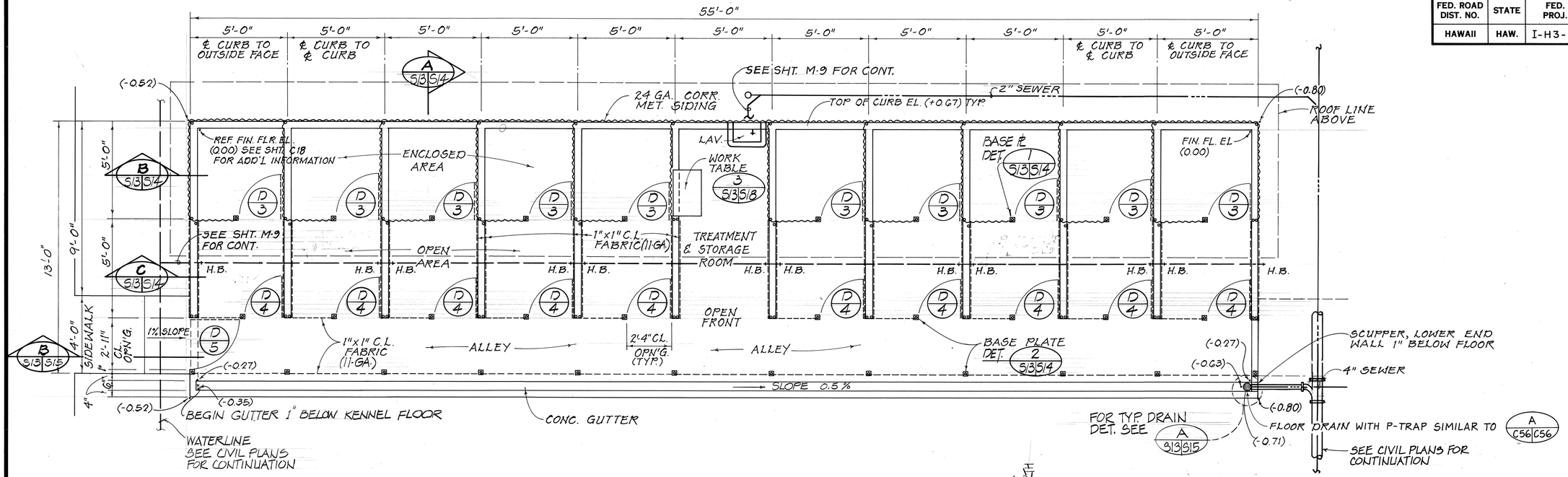
SCALE: AS NOTED DATE: JULY 1988

SHEET NO. S12 OF 39 SHEETS

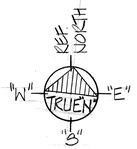
DATE	REVISION

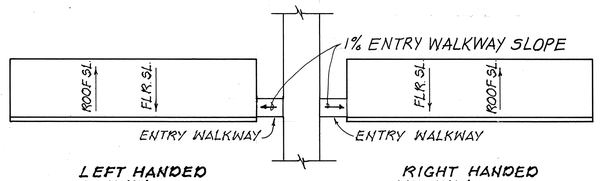
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	132	191



FLOOR PLAN
SCALE: 3/8"=1'-0"

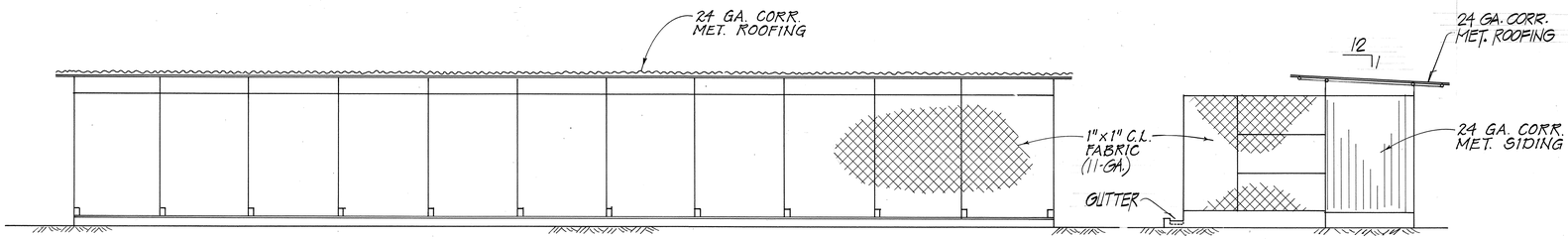




LEFT HANDED KENNEL

RIGHT HANDED KENNEL

NOTE: SEE SITE PLAN FOR ORIENTATION



EXTERIOR SIDE ELEVATION
SCALE: 1/4"=1'-0"

EXTERIOR END ELEVATION
SCALE: 1/4"=1'-0"

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

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EXTRA SMALL KENNELS

PLAN & EXTERIOR ELEVATIONS

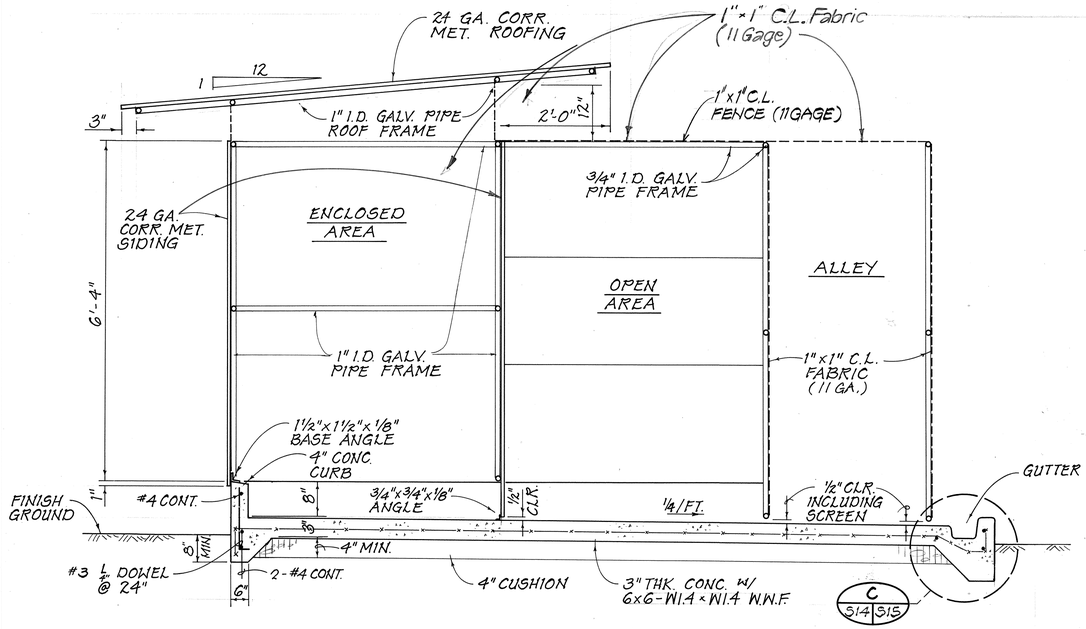
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

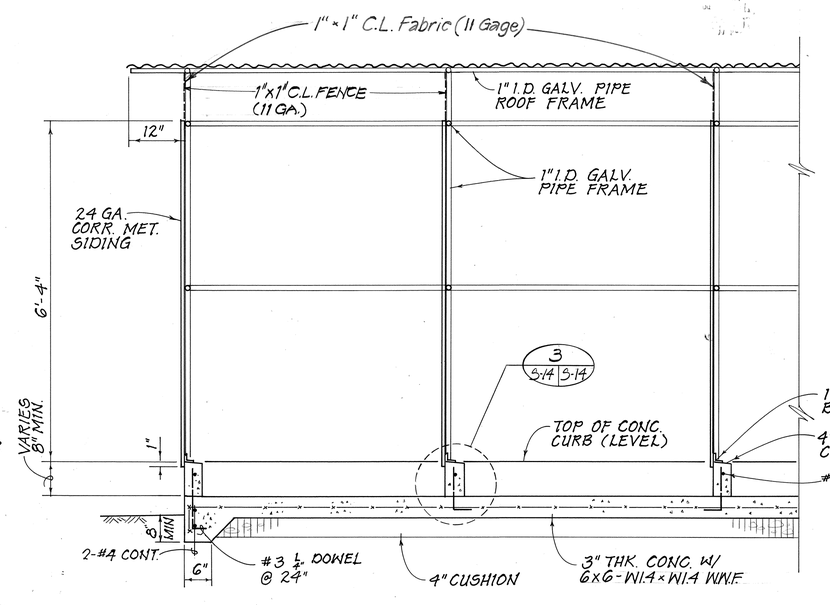
SHEET No. S13 OF 39 SHEETS

DATE	REVISION

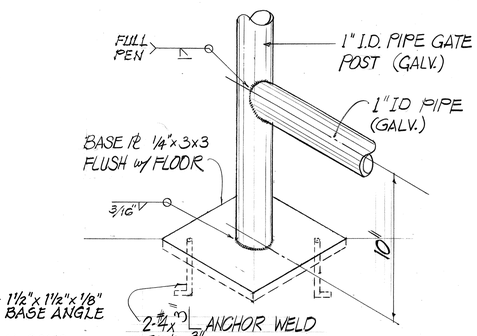
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	133	191

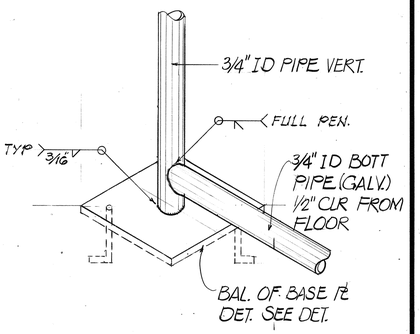


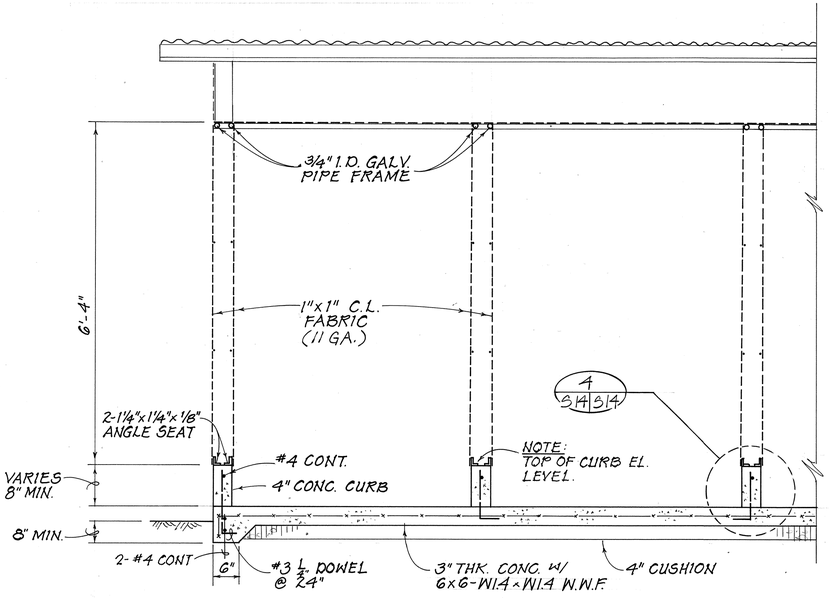
TYPICAL SECTION A
SCALE: 3/4"=1'-0"
S13 S14



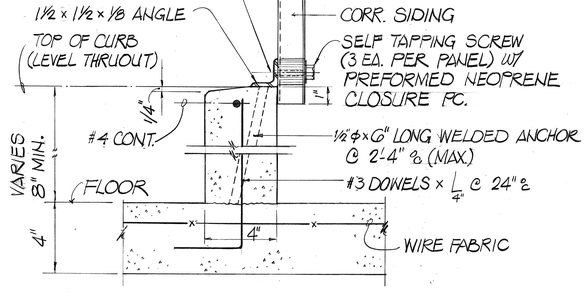
PARTIAL LONG. SECTION THRU ENCLOSED AREA B
SCALE: 3/4"=1'-0"
S13 S14



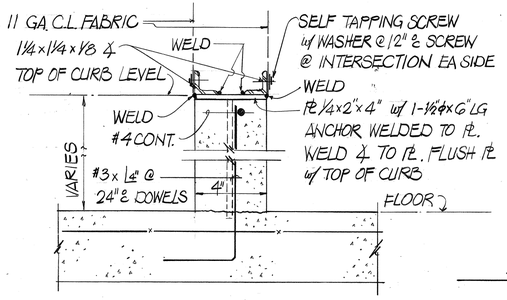




PARTIAL LONG. SECTION THRU OPEN AREA C
SCALE: 3/4"=1'-0"
S13 S14



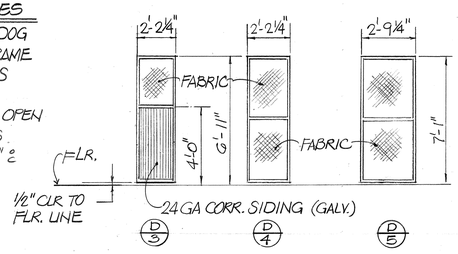
TYP. CURB DETAIL @ CORRUGATION
3
S14 S14
3" = 1'-0"



TYP. CURB DETAIL @ FABRIC
4
S14 S14
3" = 1'-0"

NOTES FOR DOORS OR GATES

1. GATE HINGE & LATCH SAME AS DOG KENNELS - WELD TO DOOR FRAME
2. VERIFY ALL GATE DIMENSIONS
3. INSTALL 3" WIRE GATE HOOK & EYE ON DOOR (D3) IN OPEN POSITION. WELD TO FRAMES
4. 14 GA TIE WIRE SPACED @ 4" ℄ MAX. FOR FABRIC.
5. DOOR FRAME SHALL BE 3/4" ID GALV PIPE U.N.O.
6. FABRIC SHALL BE 11 GA 1" C.L. FABRIC



DOOR SCHEDULE

NOTE: PERCHES INSTALLED IN EXTRA SMALL CAT KENNELS.

NOTE:
ALL POSTS SHALL BE ANCHORED TO CONCRETE FLOOR, OR CONCRETE CURB, WITH STEEL PLATES AND ANCHORS, AS SHOWN IN DETAILS 1, 2 OR 4 ON THIS SHEET.

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EXTRA SMALL KENNELS

SECTIONS

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

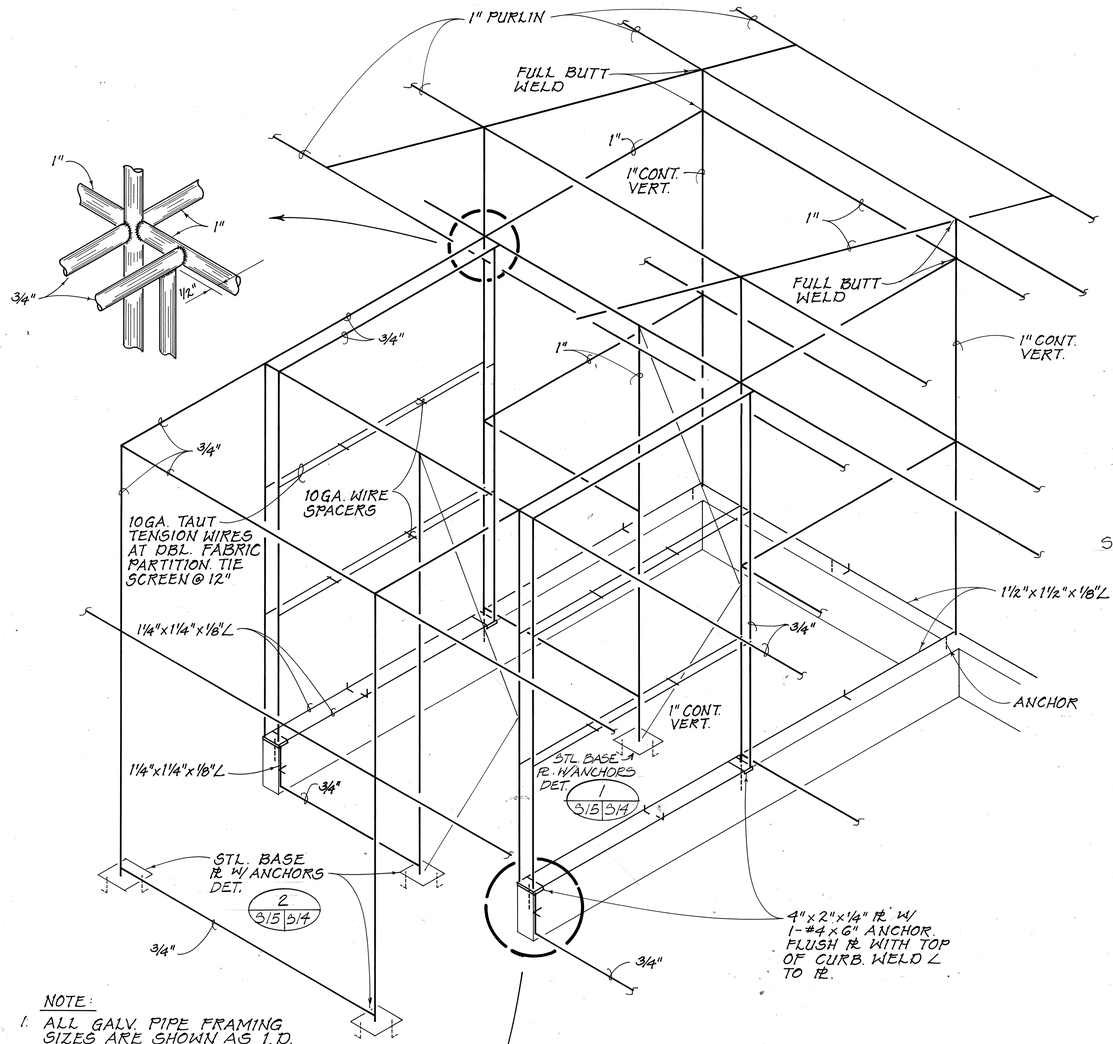
SHEET No. S14 OF 39 SHEETS

DATE	REVISION

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

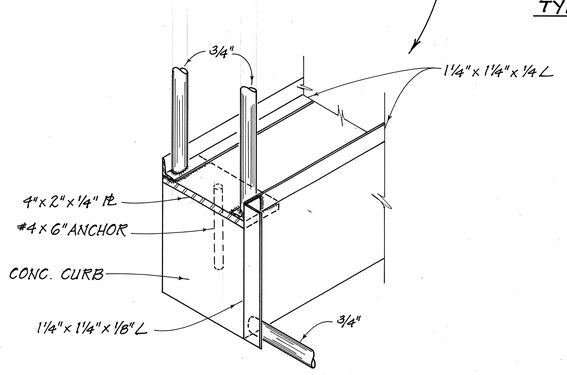
"AS-BUILT"

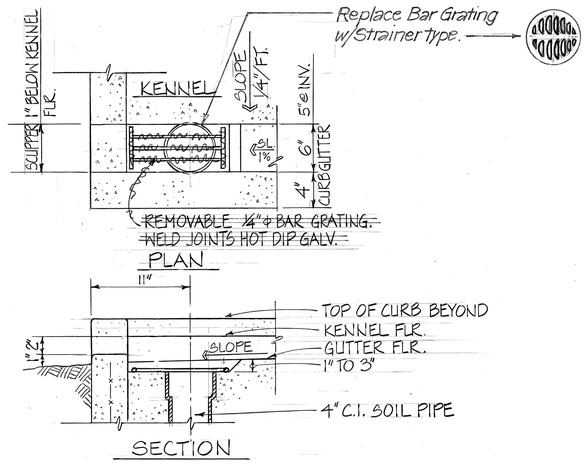
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	134	191



NOTE:
1. ALL GALV. PIPE FRAMING SIZES ARE SHOWN AS I.D.
2. FULL BUTT WELD ALL CONNECTIONS.

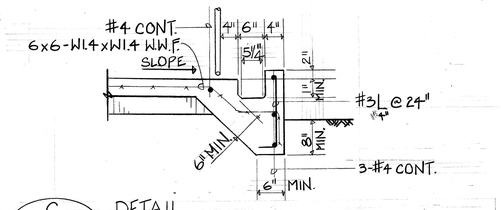
TYP. CAGE FRAMING DETAIL
NO SCALE



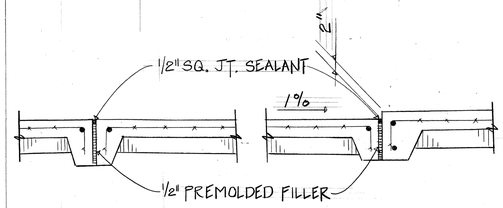


A GUTTER DRAIN DET.
S16 S15 — SCALE: 3/4"=1'-0"

S35, S13



C DETAIL
S14 S15 — 3/4"=1'-0"



B SECTION
S13 S15 — 3/4"=1'-0"

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RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EXTRA SMALL KENNELS
TYP. FRAMING DETAILS

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

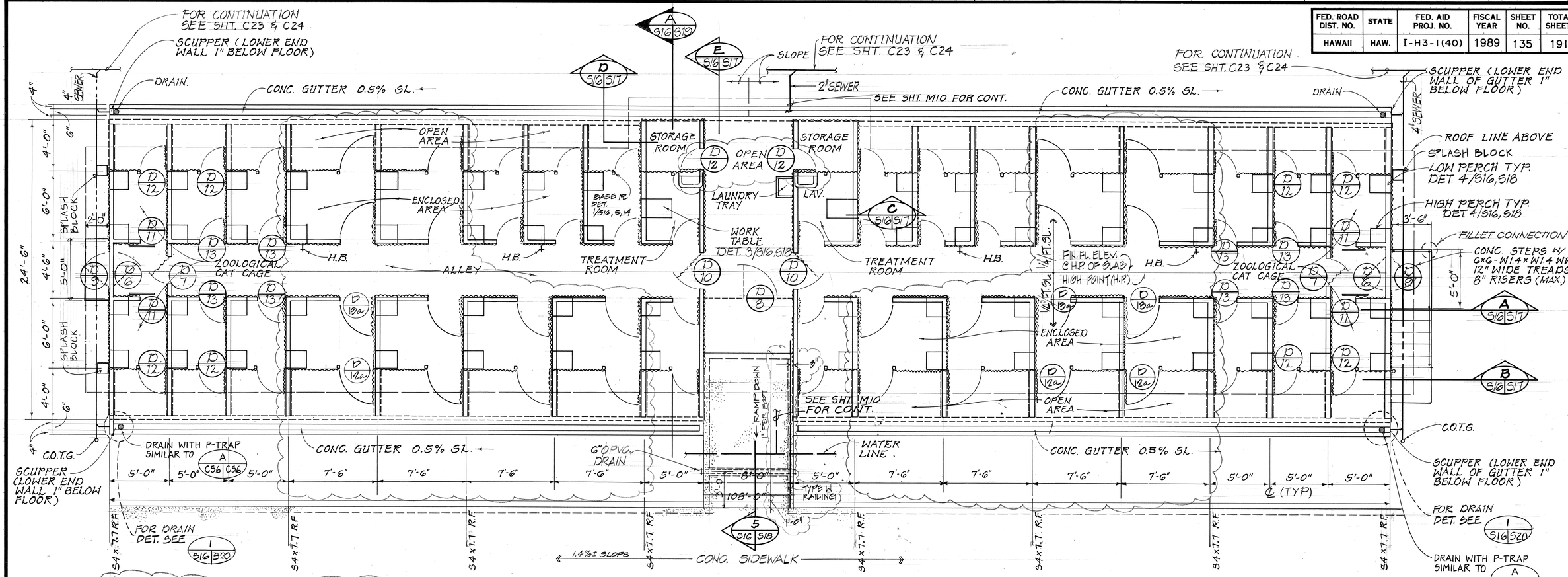
SHEET No. S15 OF 39 SHEETS

DATE	REVISION

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

"AS-BUILT"

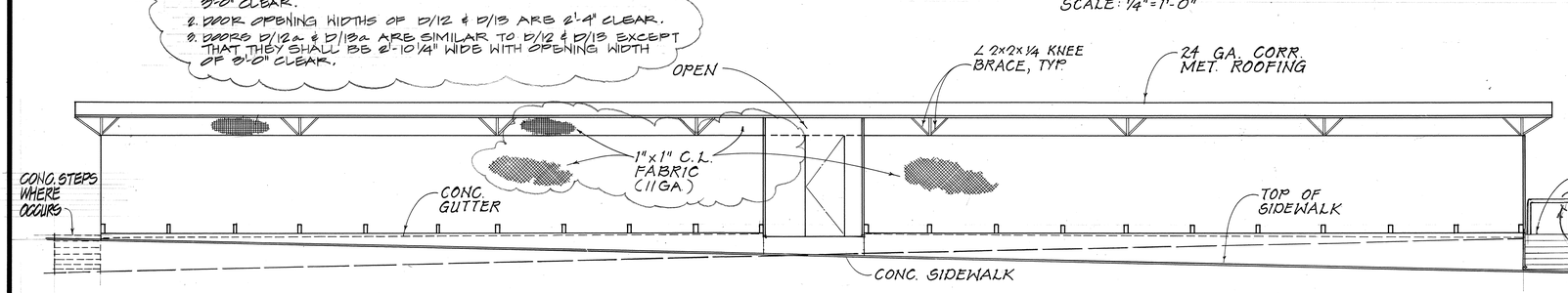
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	135	191

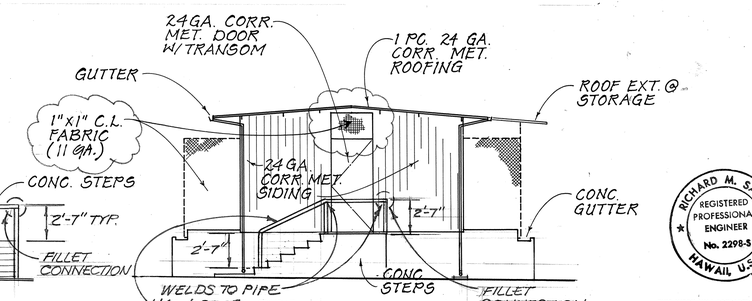


FLOOR PLAN

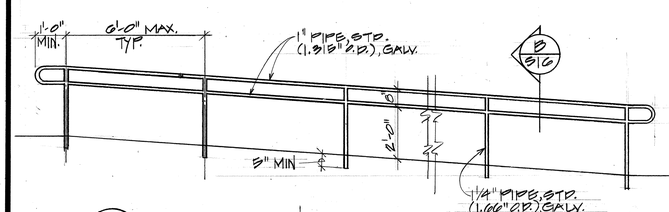
SCALE: 1/4"=1'-0"

NOTES:
1. DOOR OPENING WIDTHS OF D/6, D/7, D/8, D/9, D/10 ARE 3'-0" CLEAR.
2. DOOR OPENING WIDTHS OF D/12 & D/13 ARE 2'-4" CLEAR.
3. DOORS D/12a & D/13a ARE SIMILAR TO D/12 & D/13 EXCEPT THAT THEY SHALL BE 2'-10 1/4" WIDE WITH OPENING WIDTH OF 2'-0" CLEAR.



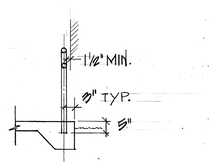


END ELEVATION



A S16 TYPE W RAILING
SCALE: 3/8"=1'-0"

SIDE ELEVATION



B S16 SECTION
SCALE: 3/8"=1'-0"

EXTERIOR ELEVATIONS

SCALE: 3/16"=1'-0"

DATE	REVISION
9-17-90	CHANGED 8-3' WIDE KENNELS TO 2-7'-6" WIDE UFAS KENNELS WITH 3'-0" WIDE DOORS AT 6 LOCATIONS
11-4-88	CHANGED D/6 AT STORAGE RMS. TO D/12. CHANGED 1" SCREENS TO 1"x1" GL. FABRIC

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UFAS CAT KENNELS

FLR. PLAN & EXTERIOR ELEVATIONS

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

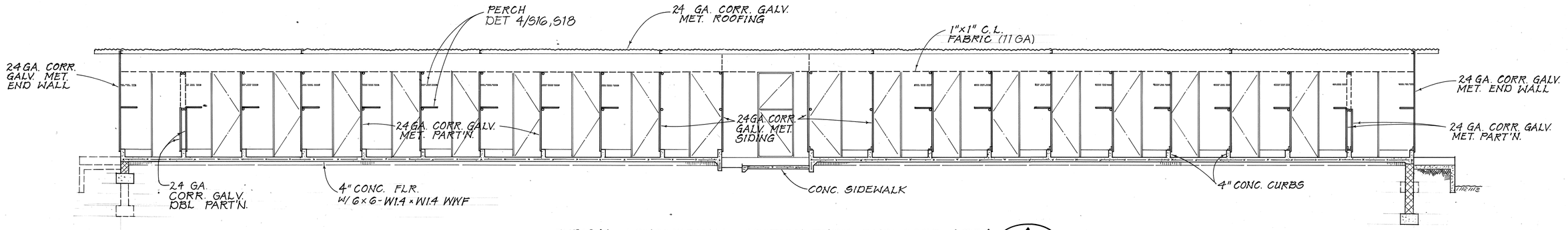
SCALE: AS NOTED DATE: JULY 1988

SHEET No. S16 OF 39 SHEETS

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

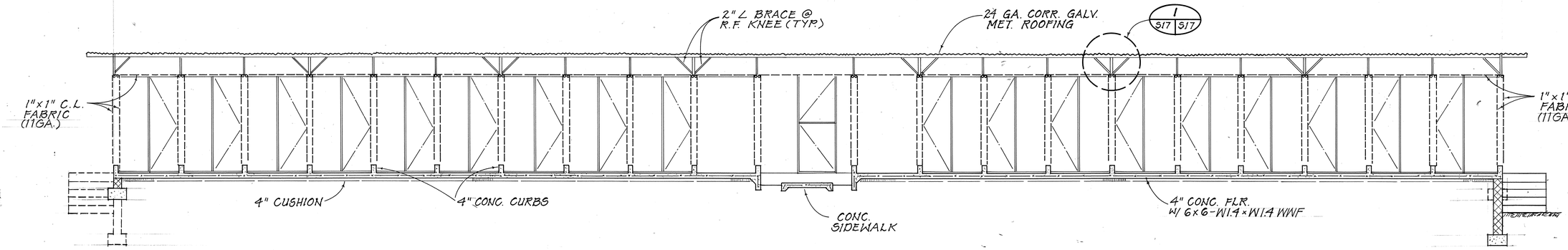
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	136	191



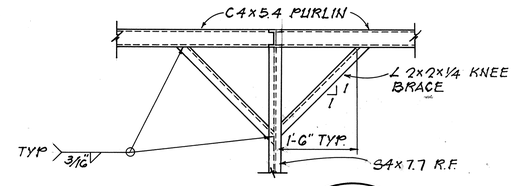
TYPICAL LONGITUDINAL SECTION THRU ENCLOSED AREA — A — S16 | S17

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



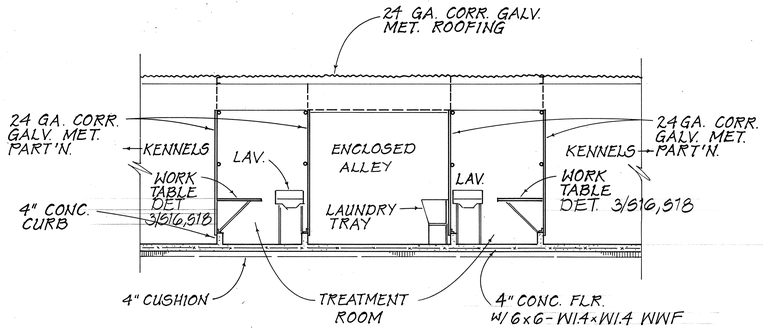
TYPICAL LONGITUDINAL SECTION THRU OPEN AREA — B — S16 | S17

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



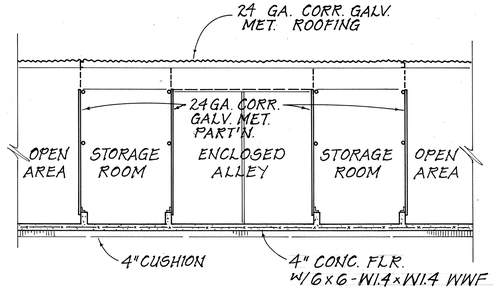
DETAIL — 1 — S17 | S17

3/4" = 1'-0"



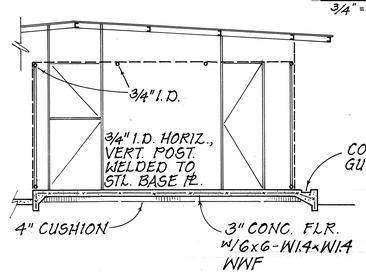
SECTION — C — S16 | S17

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



SECTION — D — S16 | S17

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



SECTION — E — S16 | S17

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

RICHARD M. SATO — REGISTERED PROFESSIONAL ENGINEER — No. 2298-S — HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

RICHARD M. SATO & ASSOCIATES, INC.

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CAT KENNELS

SECTIONS

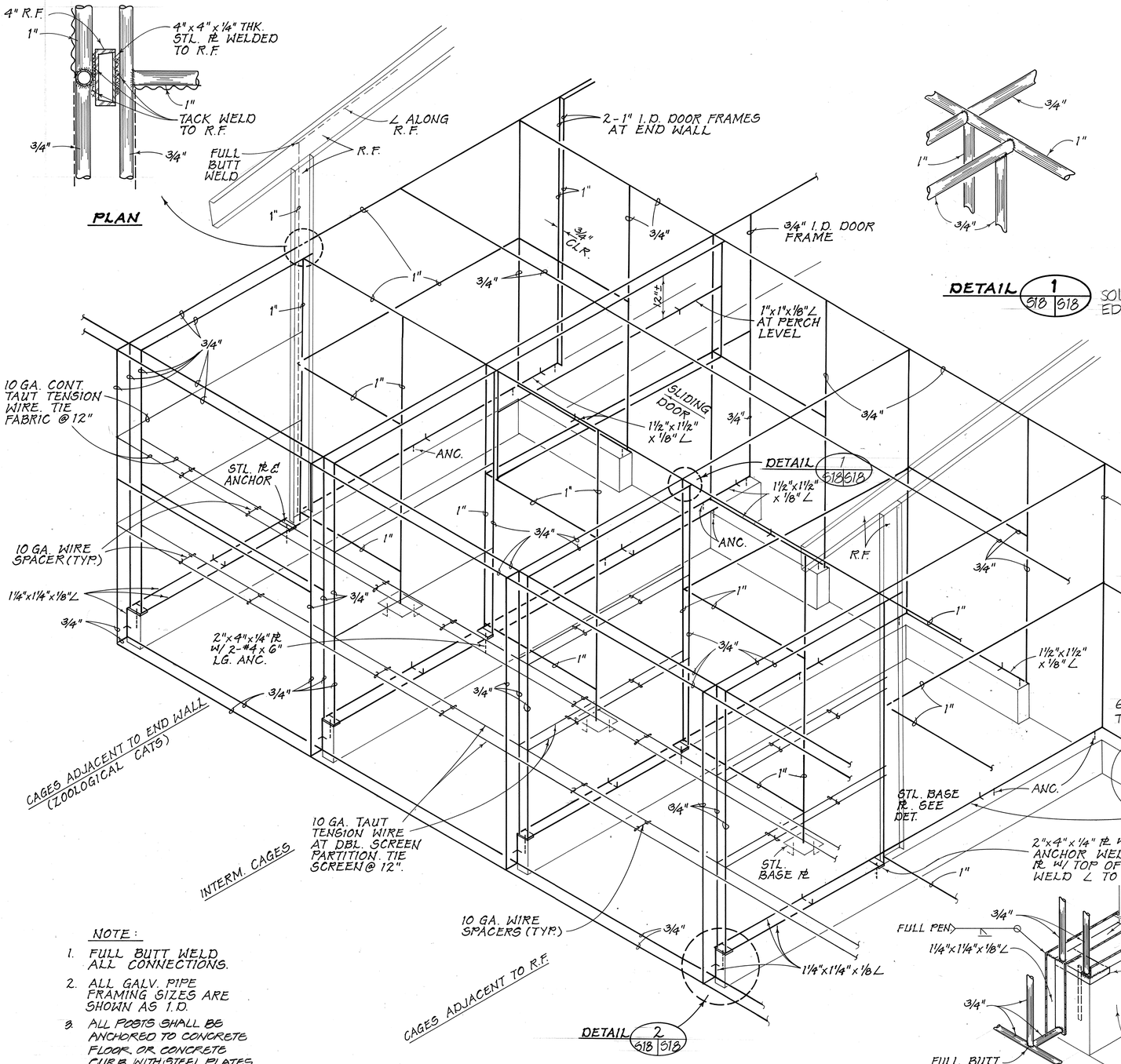
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

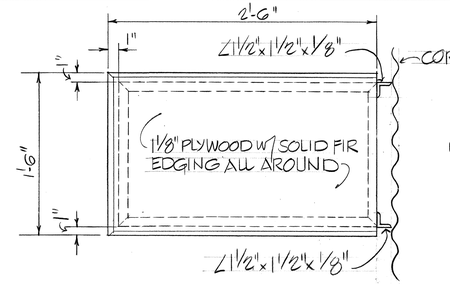
SHEET No. S17 OF 39 SHEETS

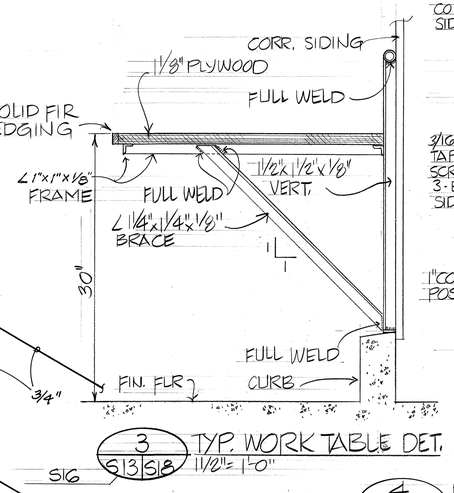
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	137	191

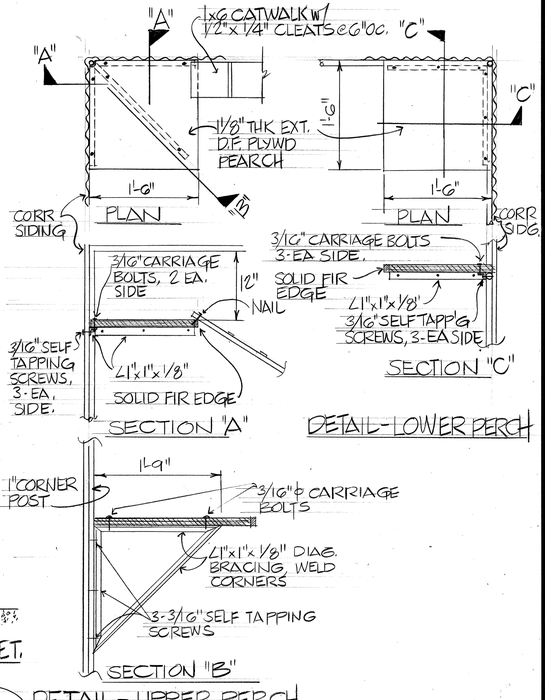


DETAIL 1 / 5|8|18



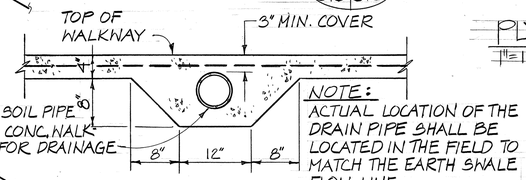


3 / SIG | 5|13|18 TYP. WORK TABLE DET. 1½"=1'-0"

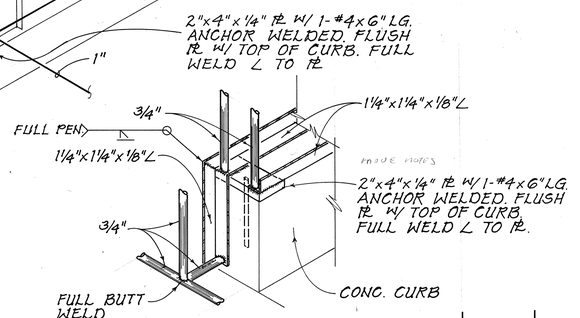


4 / SIG | 5|16|18 DETAIL - UPPER PERCH

PLYWOOD PERCH DETAIL
1"=1'-0"



5 / 5|16|18 DRAIN PIPE THRU WALKWAY DET. SCALE: 1"=1'-0"



DETAIL 2 / 5|18|18

NOTE:

1. FULL BUTT WELD ALL CONNECTIONS.
2. ALL GALV. PIPE FRAMING SIZES ARE SHOWN AS I.D.
3. ALL POSTS SHALL BE ANCHORED TO CONCRETE FLOOR OR CONCRETE CURB WITH STEEL PLATES AND ANCHORS. SEE DETAILS 2/5/18, 1/5/19, 1/5/14, 2/5/14 AND 4/5/14.

TYPICAL CAGE FRAMING DETAIL
½ SECTION
NO SCALE

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

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

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RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CAT KENNELS

TYP. FRAMING PLAN

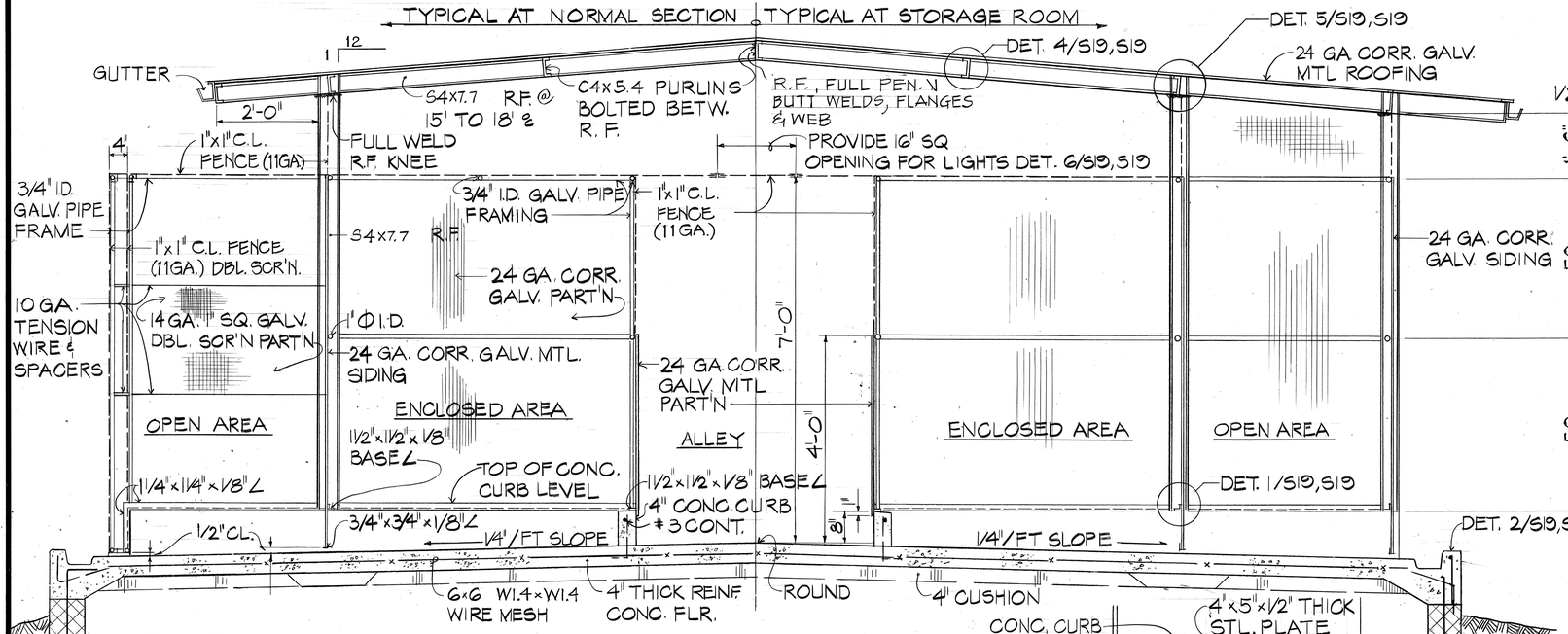
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

SHEET No. S18 OF 39 SHEETS

DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	138	191



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

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CAT KENNELS

SECTIONS

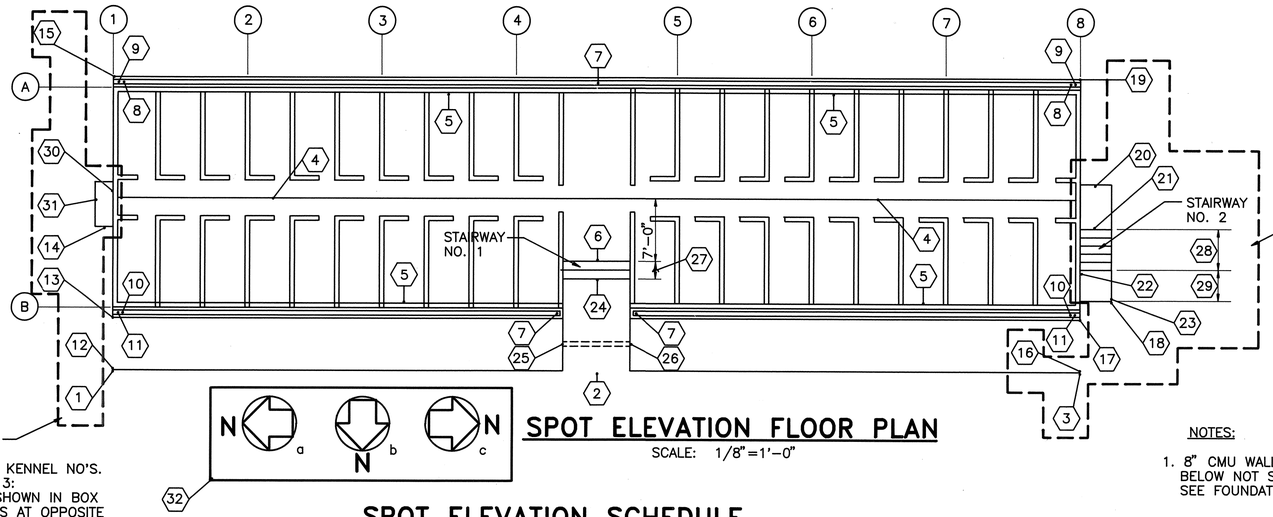
INTERSTATE ROUTE H-3
PROJECT NO. I H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

SHEET NO. S19 OF 39 SHEETS

DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-I(40)	1989	139	191



SPOT ELEVATION FLOOR PLAN

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

NOTE:

FOR CAT KENNEL NO'S. 1, 2, & 3: ITEMS SHOWN IN BOX BELONGS AT OPPOSITE SIDE OF BUILDING.

NOTE:

FOR CAT KENNEL NO'S. 1, 2, & 3: ITEMS SHOWN IN BOX BELONGS AT OPPOSITE SIDE OF BUILDING.

NOTES:

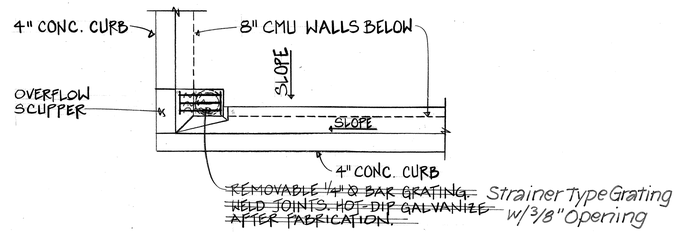
1. 8" CMU WALLS AT PERIMETER BELOW NOT SHOWN FOR CLARITY. SEE FOUNDATION PLAN.

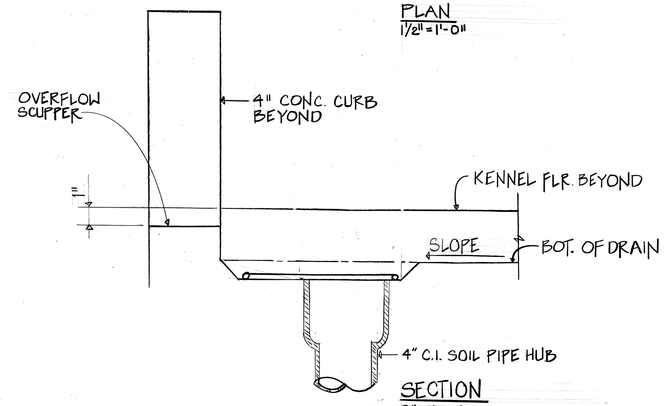
SPOT ELEVATION SCHEDULE

NO.	CAT KENNEL NUMBER 1 (SEE NOTE)	2 (SEE NOTE)	3 (SEE NOTE)	4	5	6	7	8
1	112.63	117.64	119.79	130.49	130.71	137.91	129.94	136.42
2	111.02	116.44	119.02	129.50	129.46	136.30	128.95	134.84
3	109.40	115.25	118.24	128.50	128.22	134.68	127.97	133.27
4	112.99	118.00	120.15	130.85	131.07	138.27	130.30	136.78
5	112.73	117.74	119.89	130.59	130.81	138.01	130.04	136.52
6	112.84	117.85	120.00	130.70	130.92	138.12	130.15	136.63
7	112.65	117.66	119.81	130.51	130.73	137.93	129.96	136.44
8	112.38	117.39	119.54	130.24	130.46	137.66	129.69	136.17
9	112.30	117.31	119.46	130.16	130.38	137.58	129.61	136.09
10	112.40	117.41	119.56	130.26	130.48	137.68	129.71	136.19
11	112.32	117.33	119.48	130.18	130.40	137.60	129.63	136.11
12	112.55	117.56	119.71	130.41	130.63	137.83	129.86	136.34
13	112.53	117.56	119.71	130.28	130.61	137.82	129.88	136.37
14	112.41	117.44	119.59	130.04	130.49	137.70	129.76	136.25
15	112.26	117.29	119.44	129.74	130.34	137.55	129.61	136.10
16	109.32	115.17	118.16	128.42	128.14	134.60	127.89	133.19
17	109.29	175.17	118.16	128.42	128.10	134.59	127.89	133.22
18	109.23	115.10	118.08	128.34	128.03	134.51	127.81	133.16
19	109.02	114.90	117.89	128.08	127.83	134.32	127.62	132.95
20	112.91	117.92	120.07	130.77	130.99	138.19	130.22	136.70
21	112.86	117.88	120.02	130.72	130.94	138.14	130.18	136.66
22	109.56	115.40	118.30	128.64	128.37	134.84	128.22	133.43
23	109.52	115.36	118.26	128.60	128.33	134.80	128.18	133.39
24	111.24	116.68	119.26	129.74	129.70	136.52	129.19	135.06
25	I=110.18	I=115.67	I=118.27	I=128.90	I=128.84	I=135.72	I=128.33	I=134.31
26	I=110.42	I=115.85	I=118.38	I=128.76	I=128.65	I=135.48	I=128.19	I=134.07
27	2'-0" (2 STEPS)	1'-0" (1 STEP)	1'-0" (1 STEP)	1'-0" (1 STEP)	1'-0" (1 STEP)	2'-0" (2 STEPS)	1'-0" (1 STEP)	2'-0" (2 STEPS)
28	5'-0" (5 STEPS)	4'-0" (4 STEPS)	2'-0" (2 STEPS)	3'-0" (3 STEPS)	4'-0" (4 STEPS)	5'-0" (5 STEPS)	3'-0" (3 STEPS)	5'-0" (5 STEPS)
29	3'-0"	3'-0"	4'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"
30	112.99	118.00	120.15	130.85	131.07	138.27	130.30	136.78
31	112.95	117.96	120.11	130.81	131.03	138.23	130.26	136.74
32	c	c	c	b	a	a	a	a

NOTES:

1. FOR CAT KENNELS NO'S. 1, 2, & 3 ELEVATIONS, STAIRWAY NO.2 & OTHER DETAILS EXCEPT GRID LINES ARE SHOWN OPPOSITE HAND.





S16 1 S20 S20 CAT KENNEL GUTTER DRAIN DETAIL

DAVID M. YAMAMOTO REGISTERED PROFESSIONAL ENGINEER No. 1399-S HAWAII U.S.A.

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RICHARD N. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CAT KENNELS

SPOT ELEVATIONS, SCHEDULE, & SECTIONS

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

SHEET NO. S20 OF 39 SHEETS

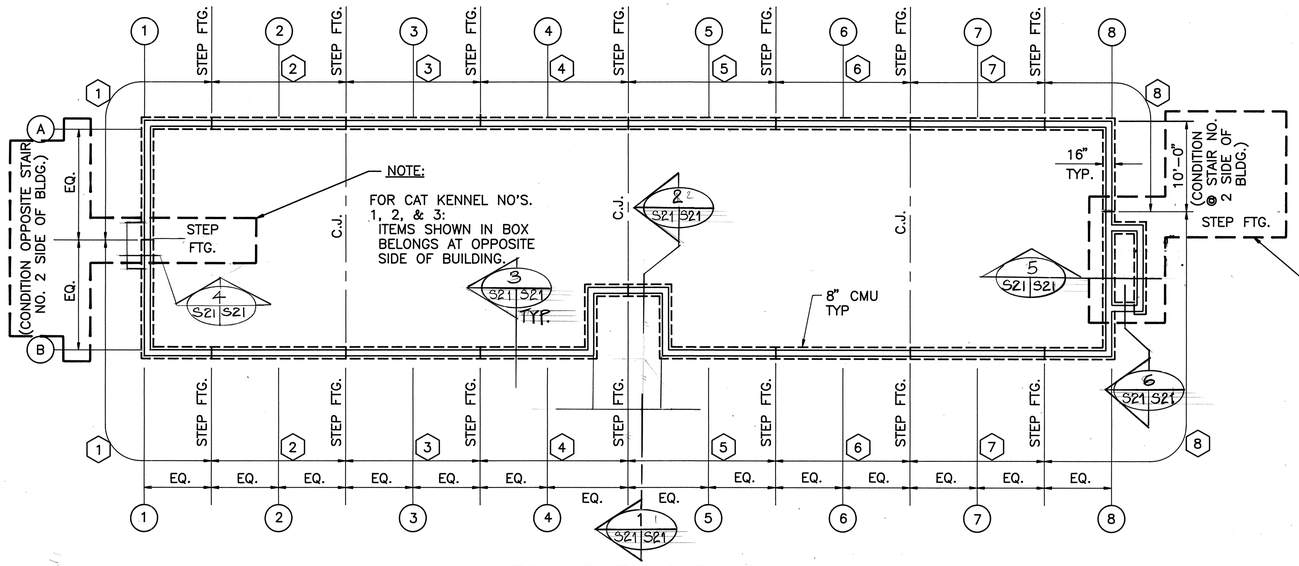
DATE	REVISION
10/21/88	REVISED SPOT ELEVATION SCHEDULE ITEM NO. 13, 14, 15, 17, 18, 19, 25 & 26 FOR CAT KENNEL NO. 1 THRU 8. REVISED SPOT ELEVATION SCHEDULE ITEM NO. 2, 3, 16 & 24 FOR CAT KENNEL NO. 3 & 7.

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

"AS-BUILT"

ADD. 139

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	140	191



FOUNDATION PLAN

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

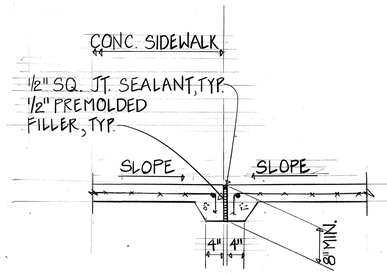
NOTE:
FOR CAT KENNEL NO'S. 1, 2, & 3: ITEMS SHOWN IN BOX BELONGS AT OPPOSITE SIDE OF BUILDING.

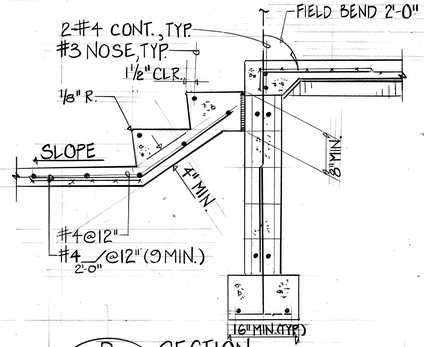
BOTTOM OF FOOTING ELEVATION SCHEDULE

		CAT KENNEL NUMBER							
GRIDLINE	SECTOR	1 (SEE NOTE)	2 (SEE NOTE)	3 (SEE NOTE)	4	5	6	7	8
A	1	105.67	112.00	115.00	127.00	128.50	135.67	127.67	134.00
A	2	105.67	112.00	115.00	127.00	127.83	135.00	127.67	133.33
A	3	106.33	112.67	115.67	126.33	127.17	134.33	127.00	132.67
A	4	107.00	113.33	115.67	126.33	127.17	133.67	127.00	132.00
A	5	107.00	113.33	116.33	125.67	126.50	133.67	126.33	132.00
A	6	107.67	114.00	116.33	125.67	126.50	133.00	126.33	131.33
A	7	108.33	114.67	117.00	125.00	125.83	132.33	125.67	130.67
A	8	109.00	115.33	117.00	125.00	125.83	132.33	125.67	130.67
B	1	107.67	114.00	117.00	~~129.00~~ 128.42	128.50	~~137.00~~ 135.84	~~129.00~~ 127.87	~~135.33~~ 134.35
B	2	107.67	114.00	117.00	~~129.00~~ 128.42	128.50	~~136.33~~ 135.84	~~129.00~~ 127.87	~~134.67~~ 134.35
B	3	108.33	114.67	117.00	128.33	127.83	135.67	~~128.33~~ 127.87	134.00
B	4	109.00	114.67	117.00	128.33	127.83	135.00	~~128.33~~ 127.87	133.33
B	5	109.00	115.33	117.67	127.67	127.17	135.00	127.67	133.33
B	6	109.67	115.33	117.67	127.67	127.17	134.33	127.67	132.67
B	7	110.33	~~116.00~~ 116.57	117.67	127.00	126.50	133.67	127.00	132.00
B	8	~~111.00~~ 110.56	~~116.67~~ 115.57	~~118.33~~ 117.72	127.00	126.50	133.67	127.00	132.00

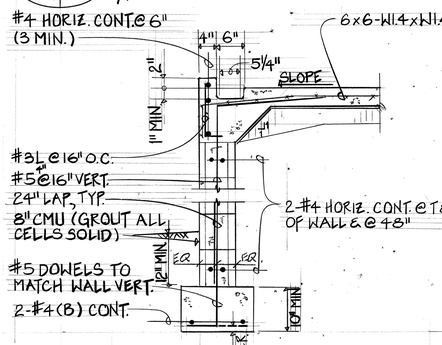
NOTES:

1. CAT KENNELS NO'S. 1,2, & 3: STAIRWAY NO. 2 ON OPPOSITE SIDE OF BUILDING AS SHOWN ON FOUNDATION PLAN ABOVE.
2. FOR CAT KENNELS NO'S. 1,2, & 3:
   A) USE SECTOR 8 STEP FTG. LOCATIONS FOR SECTOR 1 STEP FTGS. &;
   B) USE SECTOR 1 STEP FTG. LOCATIONS FOR SECTOR 8 STEP FTGS.



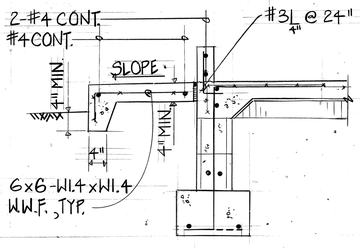


1 S21|S21 SECTION 3/4"=1'-0"



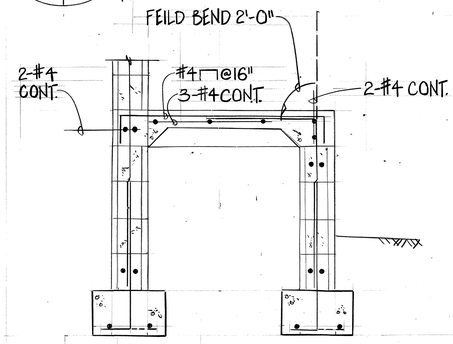
2 S21|S21 SECTION 3/4"=1'-0"

NOTE:
ENTRY WALK REVISED FROM STEPS TO RAMPS FOR CAT KENNELS 1, 2, 3 & 4

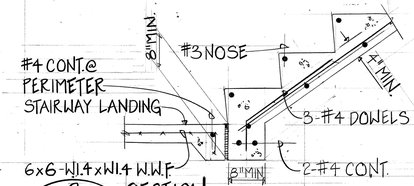


3 S21|S21 SECTION 3/4"=1'-0"

4 S21|S21 SECTION 3/4"=1'-0"



5 S21|S21 SECTION 3/4"=1'-0"



6 S21|S21 SECTION 3/4"=1'-0"

DAVID M. YAMAMOTO REGISTERED PROFESSIONAL ENGINEER No. 1399-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
RICHARD M. SATO & ASSOCIATES, INC.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CAT KENNELS

BOTTOM OF FOOTING SCHEDULE & SECTIONS

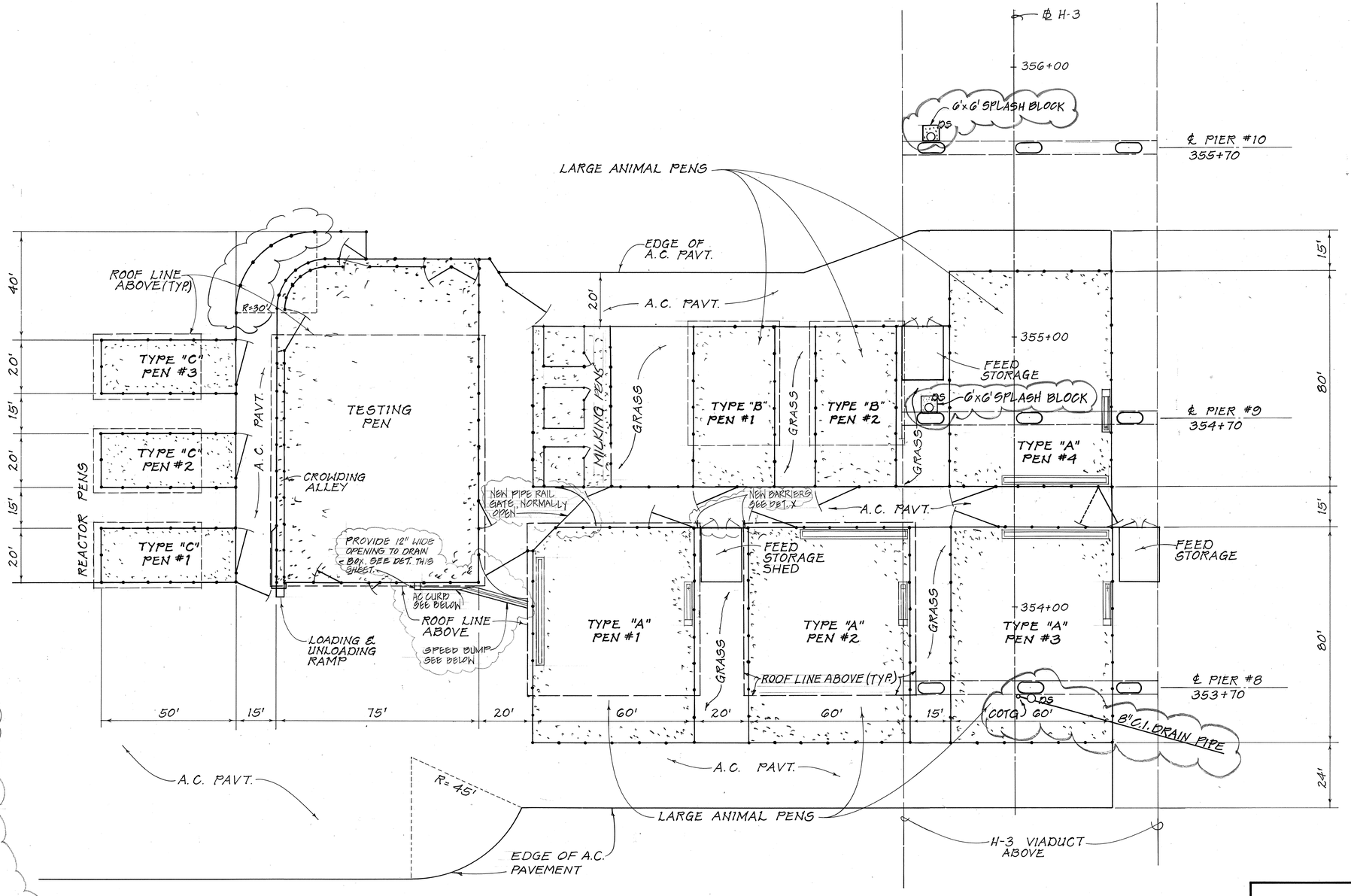
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

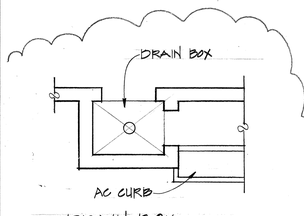
SCALE: AS NOTED DATE: JULY 1988

SHEET No. S21 OF 39 SHEETS

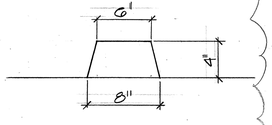
"AS-BUILT" 140

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	141	191

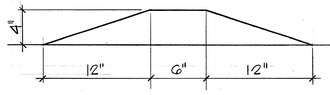




DRAIN BOX
3/4" = 1'-0"



AC CURB
1 1/2" = 1'-0"



SPEED BUMP
1 1/2" = 1'-0"

Note: Installed Galv. Pipe Guard Rails & Sliding Gates for large animals Pens, Feed & Water Troughs.

NORTH

LARGE ANIMAL PENS - LAYOUT PLAN

SCALE: 1" = 20'

DATE	REVISION
6/10/91	ADDED GATE, SPEED BUMP, AC CURB
11/4/88	ADDED SPLASHBLOCKS & 8" DRAIN PIPE
8/24/00	REVISED WALKWAY AT TESTING PEN

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

RICHARD M. SATO
REGISTERED PROFESSIONAL ENGINEER
No. 2298-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN
LAYOUT PLAN

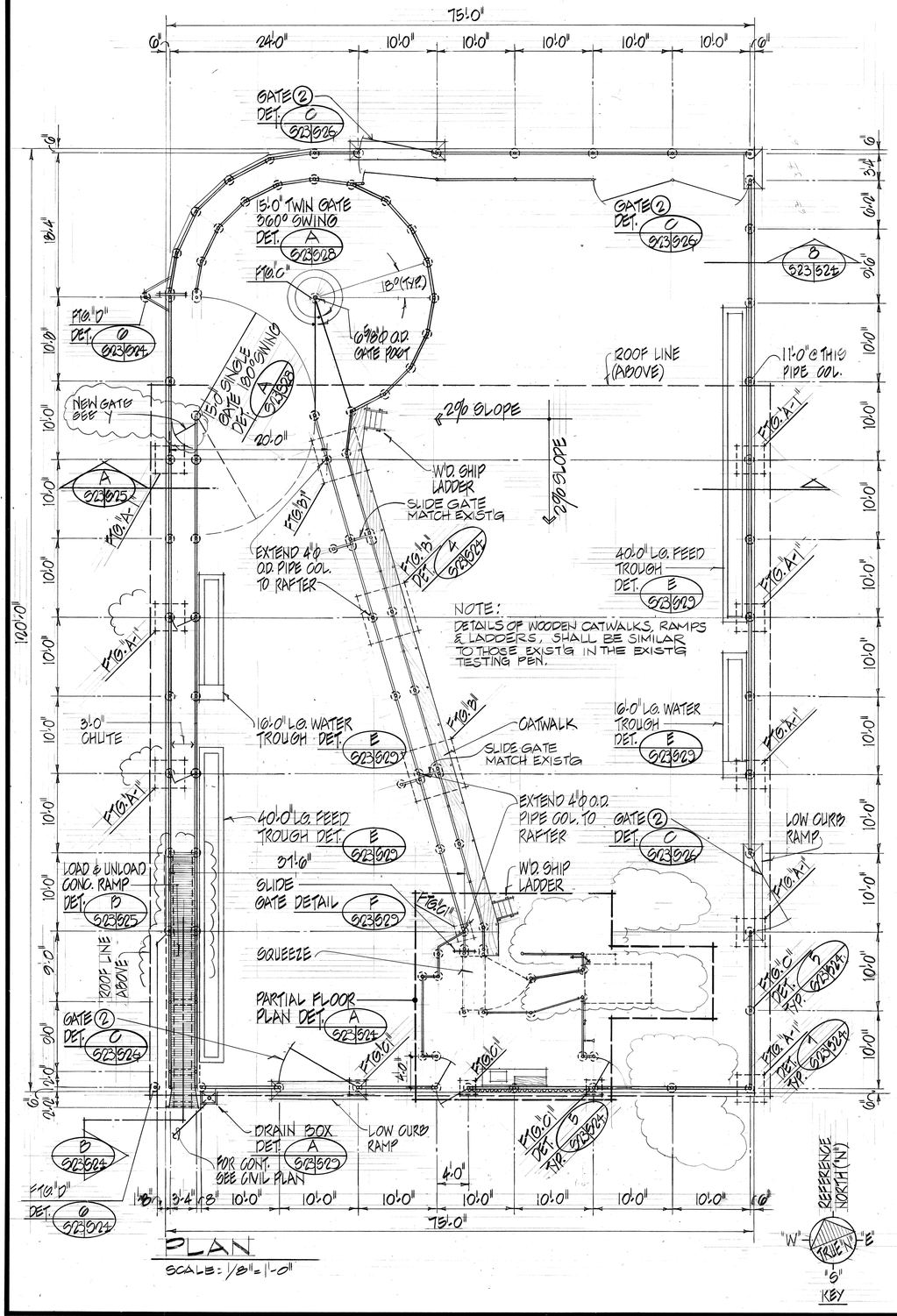
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

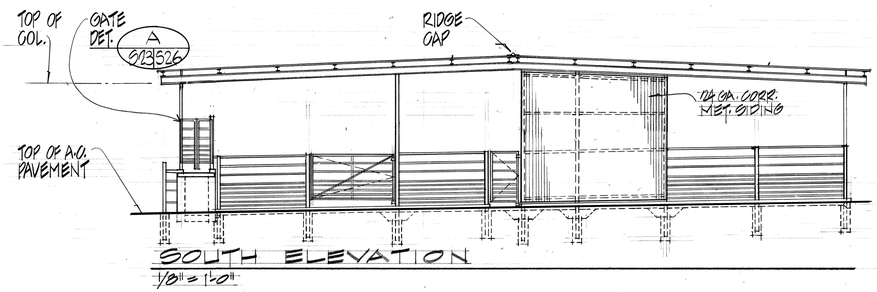
SCALE: AS NOTED DATE: JULY 1988

SHEET NO. S22 OF 39 SHEETS

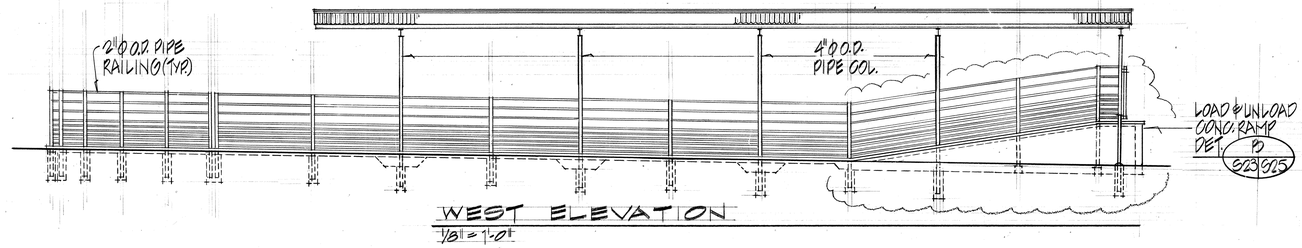
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	142	191

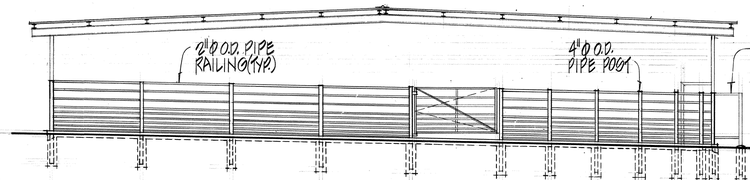




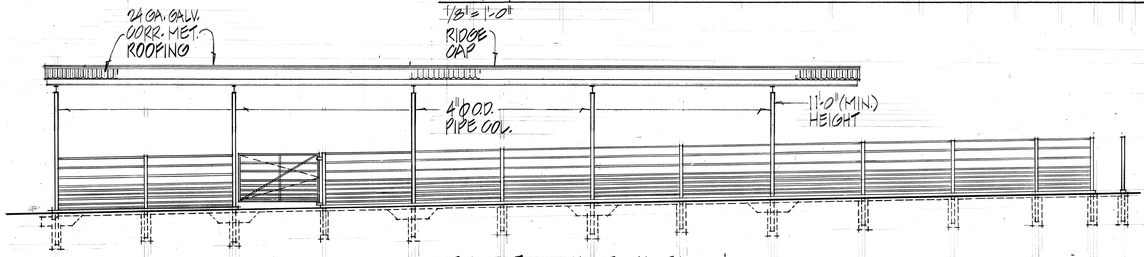
SOUTH ELEVATION
1/8" = 1'-0"



WEST ELEVATION
1/8" = 1'-0"



NORTH ELEVATION
1/8" = 1'-0"



EAST ELEVATION
1/8" = 1'-0"

Note: Installed Galv. Pipe Guardrails for Feed & Water Troughs.

DATE	REVISION
6/10/91	ADDED GATE, REMOVED WOOD CATWALK, RAMPS & MIXING TANK
10-12-90	CHANGED LOAD/UNLOAD RAMP
12- -89	ADDED SLIDE GATES
11-4-88	ADDED NOTE ON WOODEN CATWALK DESIGN

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN

TESTING PEN

(FLR. & FDN. PLAN & EXTERIOR ELEV.)

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

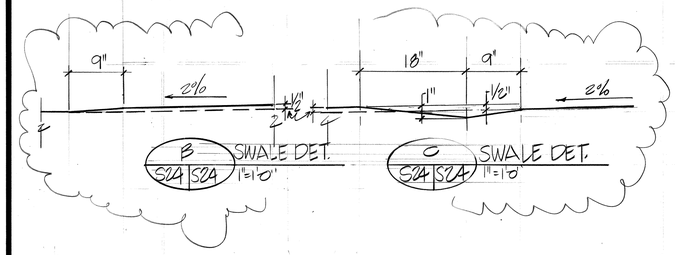
SCALE: AS NOTED DATE: JULY 1988

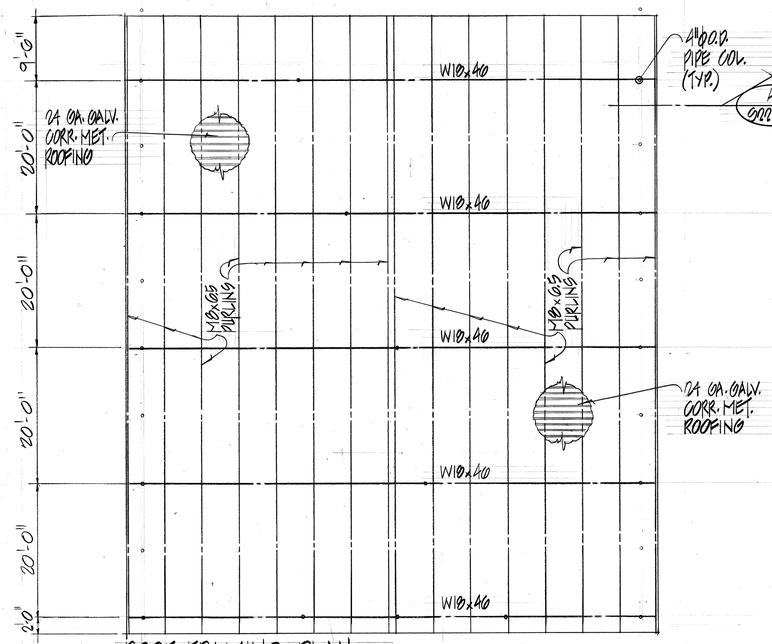
SHEET No. S23 OF 39 SHEETS

"AS-BUILT"

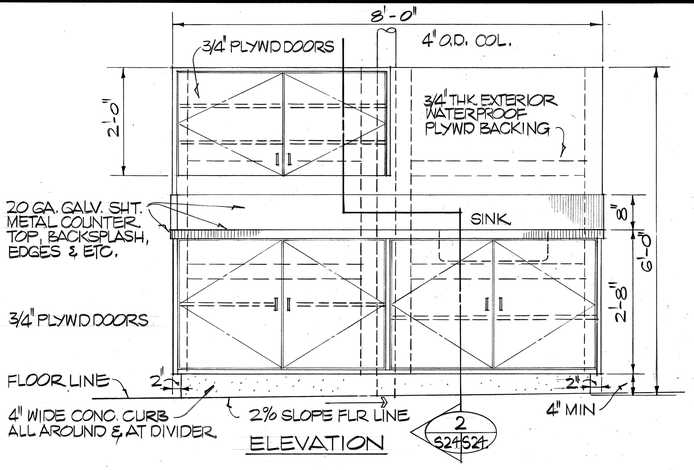
C.O. ADD. 142

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	143	191



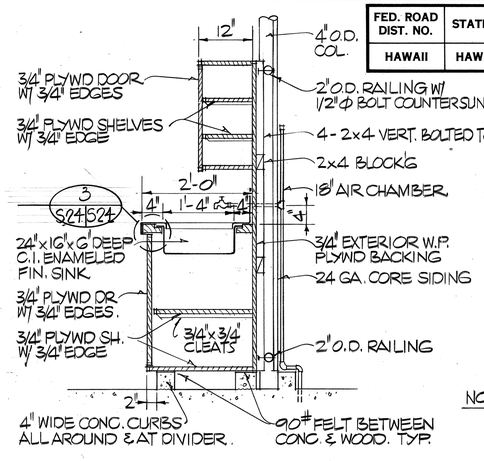


ROOF FRAMING PLAN
SCALE: 3/32"=1'-0"

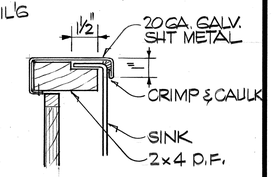


ELEVATION

1 S24 S24 SINK & CABINET DETAIL
SCALE: 3/4" = 1'-0"

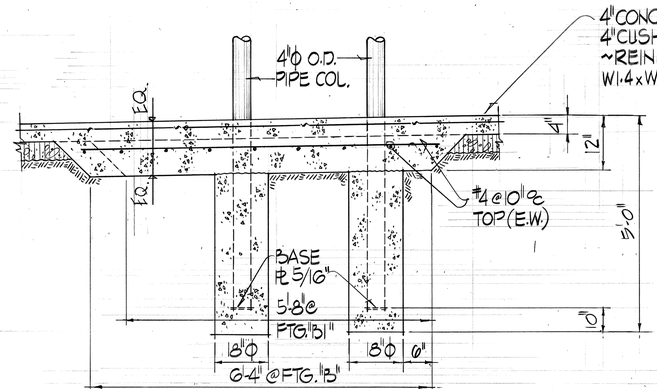


2 S24 S24 SECTION
SCALE: 3/4" = 1'-0"

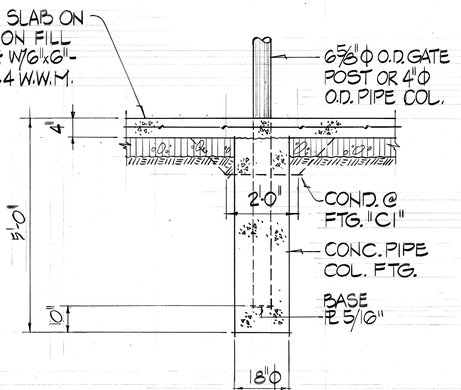


3 S24 S24 SINK EDGE
SCALE: 3"=1'-0"

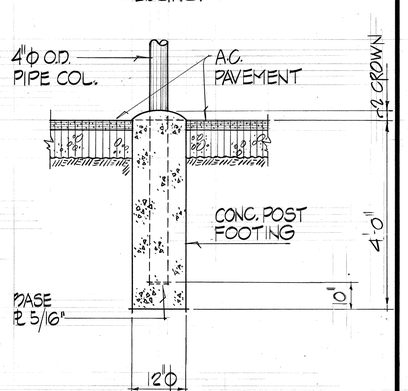
NOTES
1. ALL EDGE OF SHT. METAL TO BE SMOOTH.
2. ALL JOINTS TO BE WELDED IN GOOD WORKMANSHIP AND GROUND SMOOTH.
3. ALL EXPOSED EDGES OF PLYWD INCLUDING DOOR EDGES SHALL BE FINISHED W/ 3/4"x3/4" D.F. EDGING.



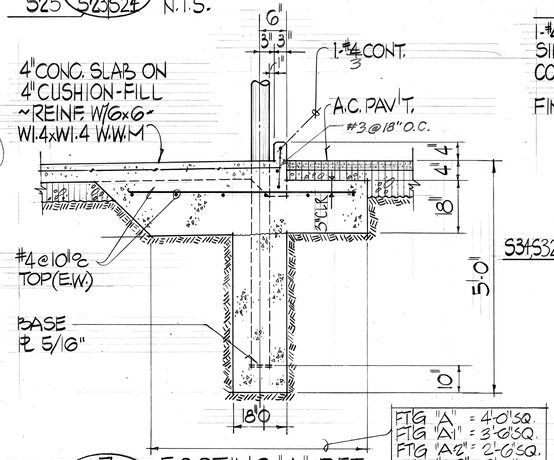
4 S25 S23 S24 FOOTING "B" & "B-1" DETAIL
N.T.S.



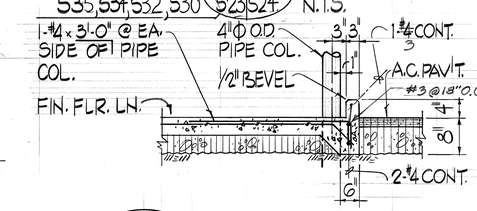
5 S35,S34,S32,S30 S23 S24 FOOTING "C" & "C-1" DETAIL
N.T.S.



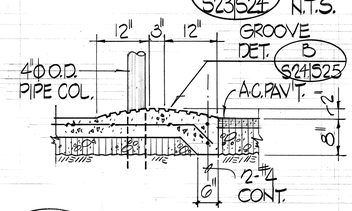
6 S23 S24 FOOTING "D" DETAIL
N.T.S.



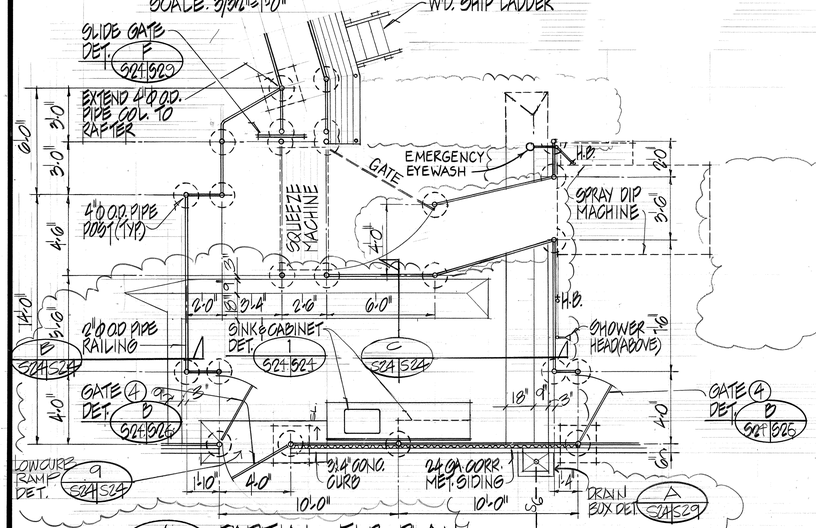
7 S35,S31,S33,S32,S31,S30,S25 S23 S24 FOOTING "A" DET.
N.T.S.



8 S34,S32,S30 S23 S24 THICKENED EDGE
DET. SCALE: 3/4"=1'-0"



9 S23 S24 LOW CURB RAMP DET.
SCALE: 3/4" = 1'-0"



A S23 S24 PARTIAL FLR. PLAN
SCALE: 1/4"=1'-0"

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

DATE	REVISION
6/10/91	REMOVED RAMPS AND WOOD FOR CATWALK
12-21-90	ADDED DET. B & C. ADDED SWALES AROUND & RAISED FLOOR NEAR SINK.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN

TESTING PEN
(FDN. & MISC. DETAILS)

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

SHEET No. S24 OF 39 SHEETS

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

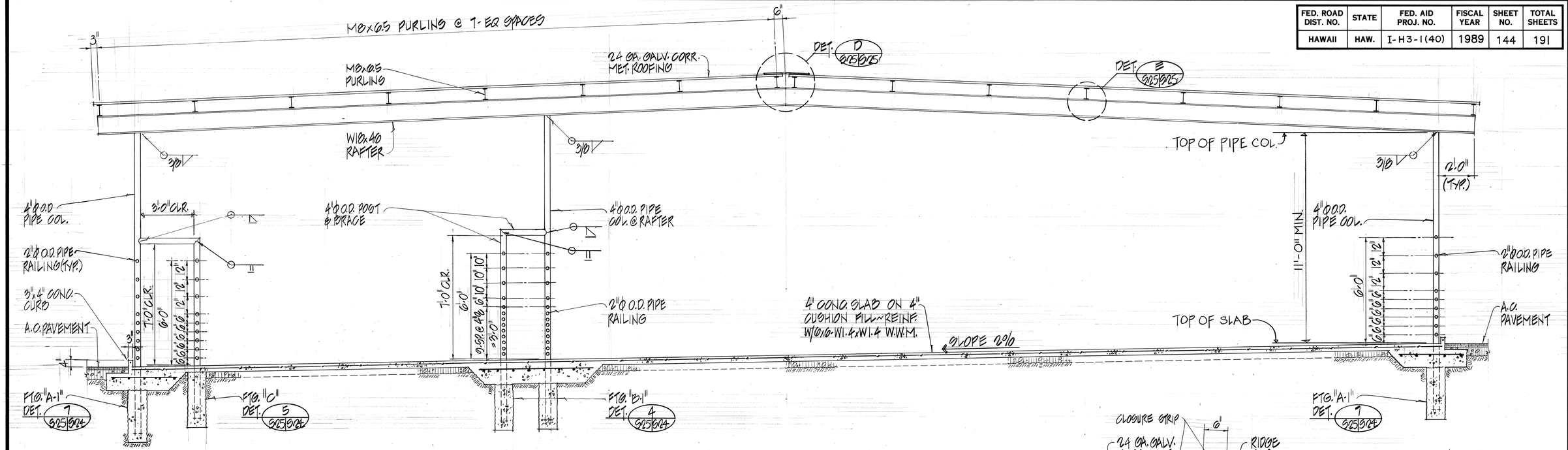
RICHARD M. SATO & ASSOCIATES, INC.

S35,S31,S33,S32,S31,S30,S25 S23 S24

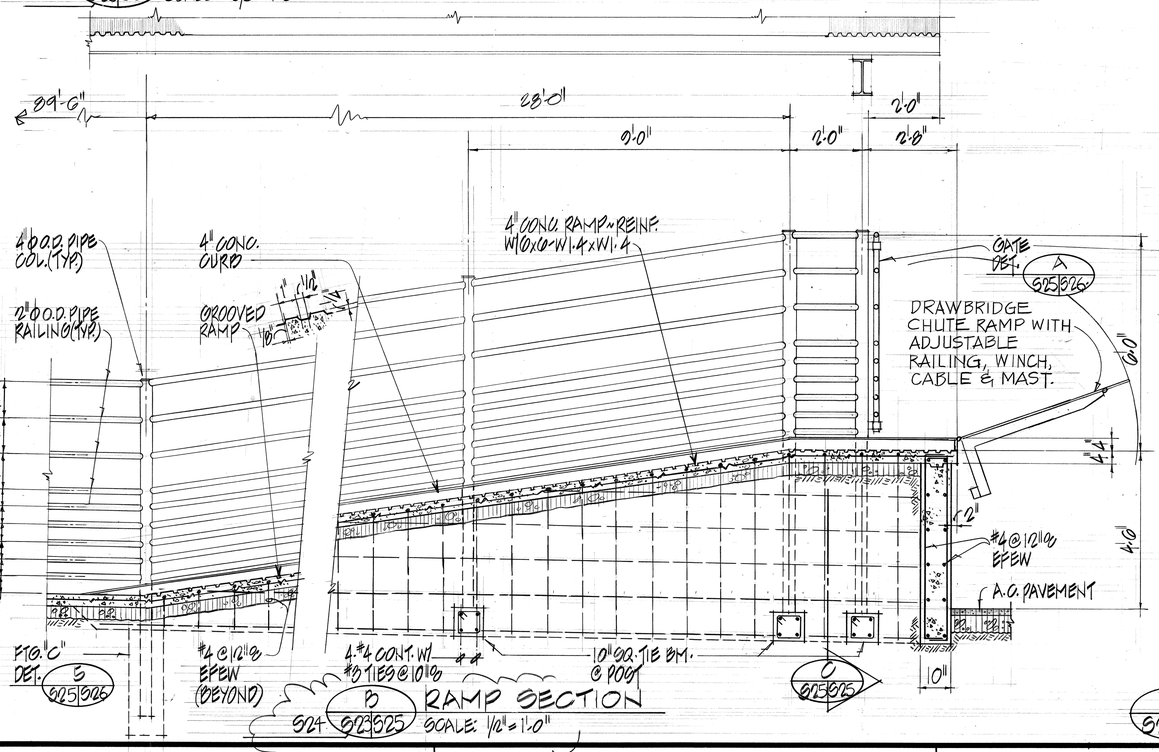
"AS-BUILT"

143

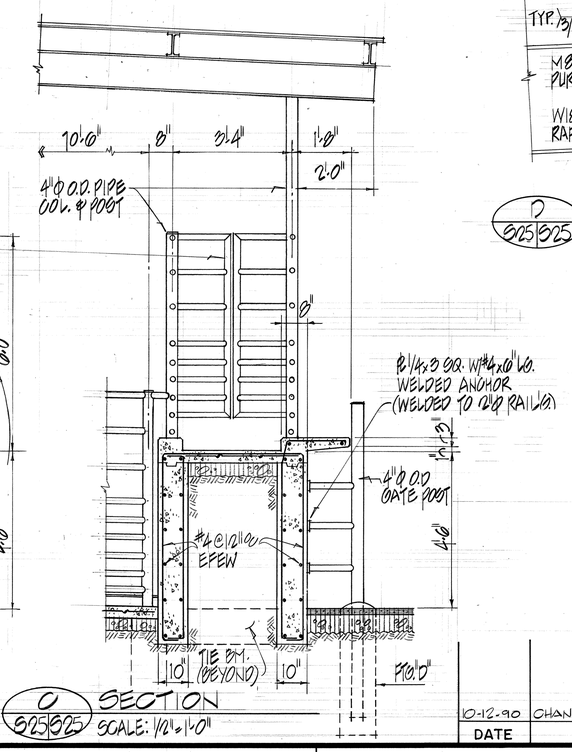
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	144	191



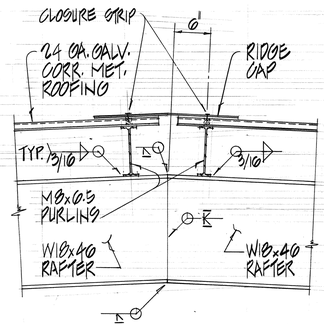
A TYPICAL CROSS SECTION (SHELTERED AREA)
S24 S23/S25 SCALE: 3/8" = 1'-0"



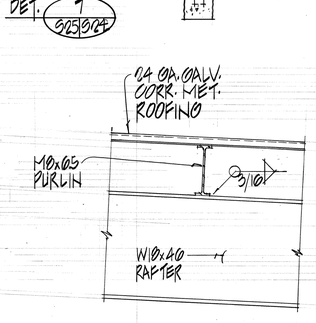
B RAMP SECTION
S24 S23/S25 SCALE: 1/2" = 1'-0"



C SECTION
S25/S25 SCALE: 1/2" = 1'-0"



D DETAIL
S25/S25 SCALE: 1" = 1'-0"



E DETAIL
S25/S25 SCALE: 1" = 1'-0"

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

RICHARD M. SATO — REGISTERED PROFESSIONAL ENGINEER — No. 2298-S — HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN
TESTING PEN
(TYP. CROSS SECT. & RAMP SECTIONS)

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

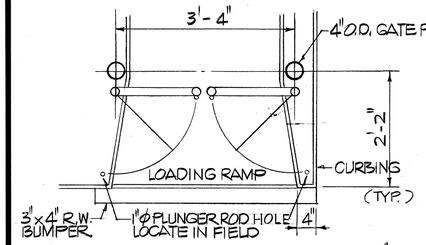
SCALE: AS NOTED DATE: JULY 1988

SHEET No. S25 OF 39 SHEETS

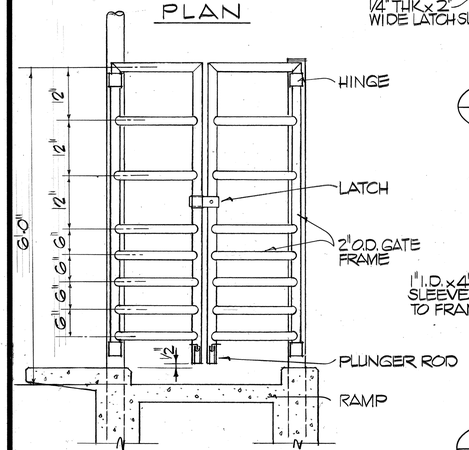
DATE	REVISION
10-12-90	CHANGE LOAD/UNLOAD RAMP

C.O. 144

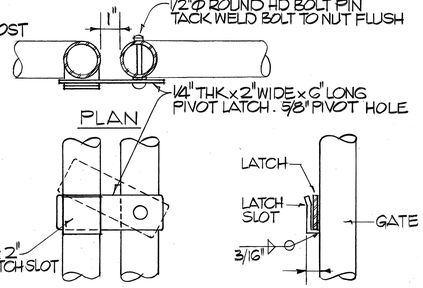
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	145	191



PLAN

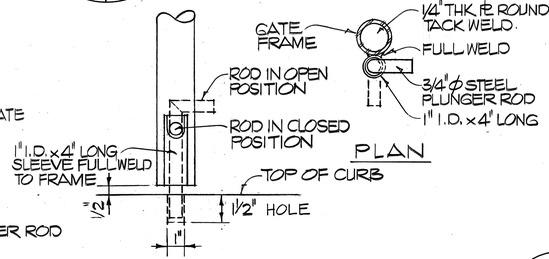


ELEVATION



PLAN ELEVATION SECTION

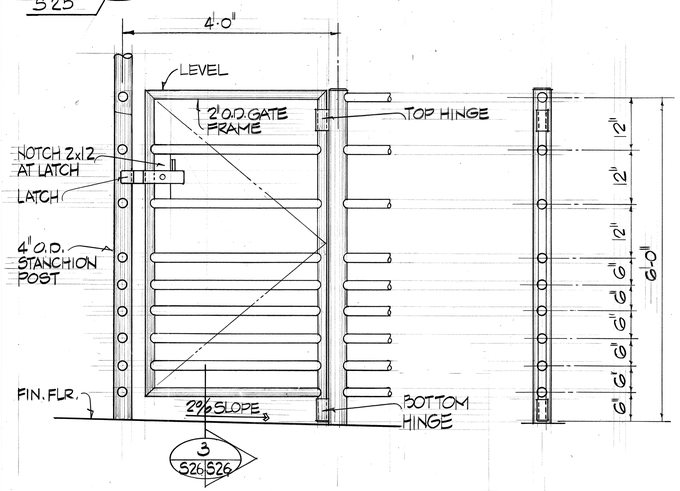
1 526 526 LATCH DETAIL
SCALE: 3" = 1'-0"



PLAN ELEVATION

2 526 526 PLUNGER ROD DETAIL
SCALE: 3" = 1'-0"

A 523 526 GATE DETAIL AT RAMP
SCALE: 3/4" = 1'-0"
S 25

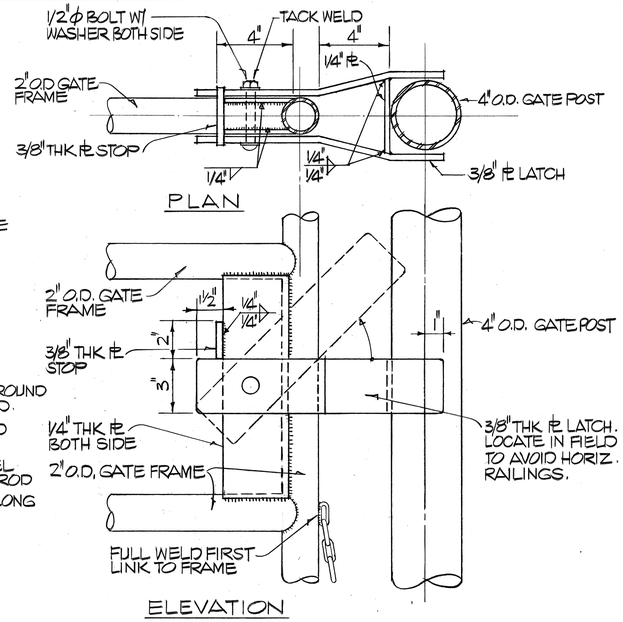


3 526 526

ELEVATION

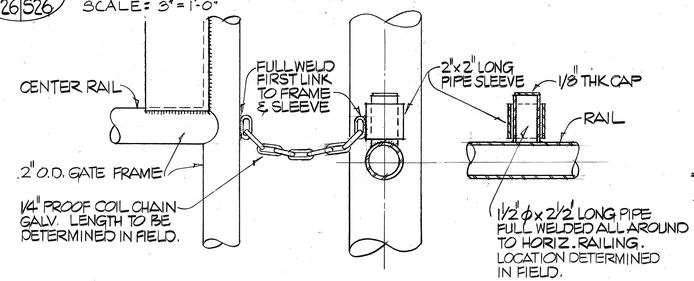
3 526 526 SECTION
SCALE: 3/4" = 1'-0"

B 524 526 GATE DETAIL
SCALE: 3/4" = 1'-0"

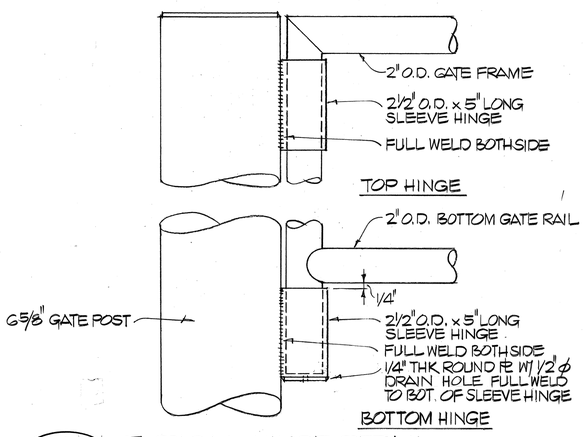


PLAN ELEVATION

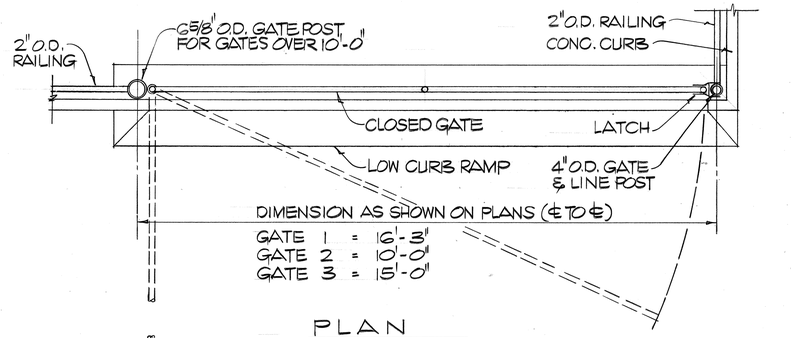
4 526 526 GATE LATCH DETAIL
SCALE: 3" = 1'-0"



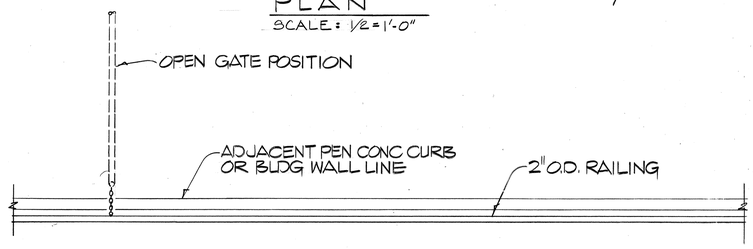
5 526 526 GATE DETAIL AT OPEN POSITION
SCALE: 3" = 1'-0"

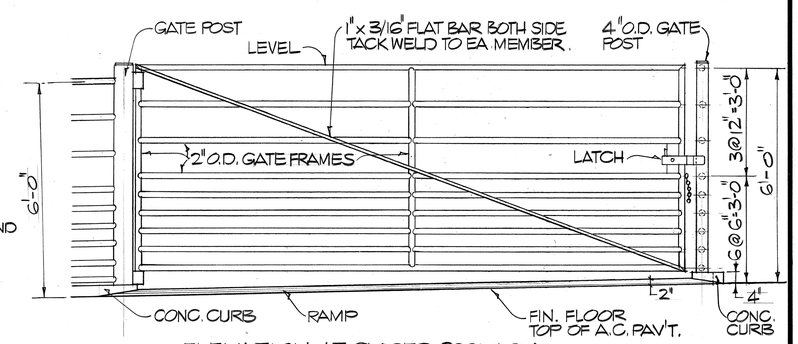


6 526 526 TYPICAL HINGE DETAIL
SCALE: 3" = 1'-0"



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





ELEVATION AT CLOSED POSITION
TYP. FOR GATES 1, 2 & 3

NOTES:
1. HORIZ. MEMBERS OF ALL GATES SHALL BE TRUE TO SQUARE.
2. LATCH DET. DETERMINED LOCATION IN FIELD. PREFERABLY NEAR MIDDLE RAIL.

C S30,S32,S34,S35 S23 S26 GATE DETAIL
SCALE: 1/2" = 1'-0"

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

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RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN

TESTING PEN
(GATE DETAILS)

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

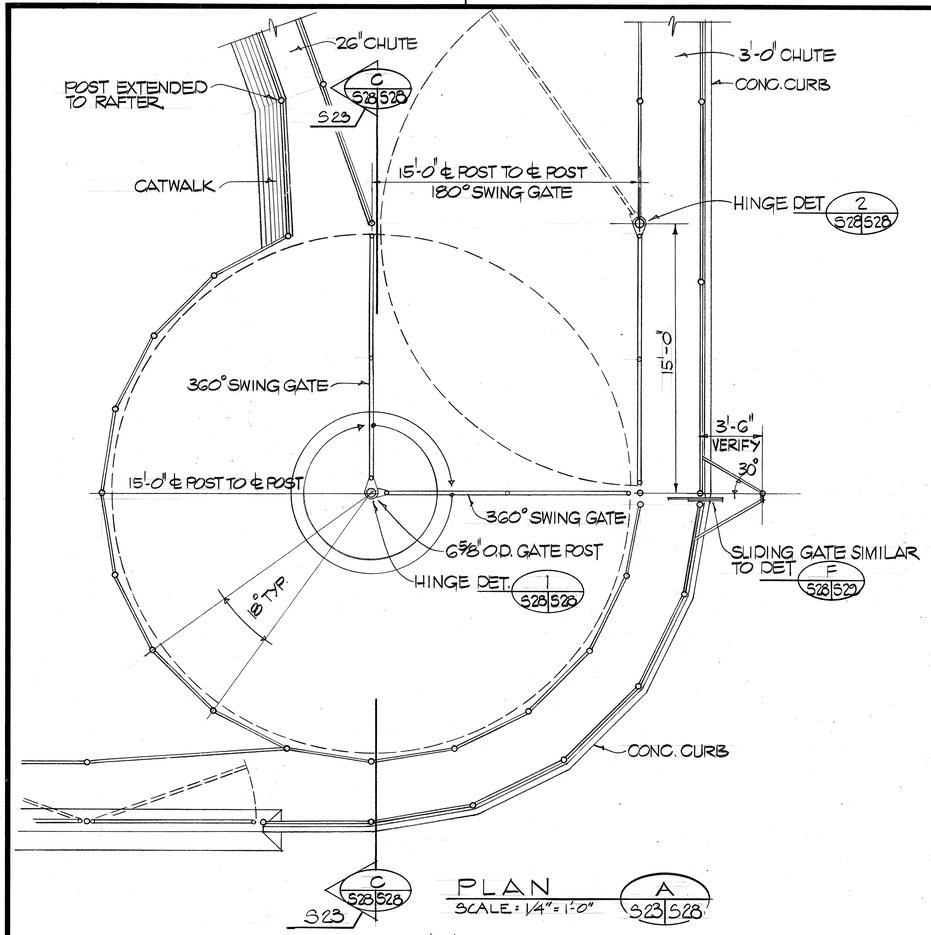
SCALE: AS NOTED DATE: JULY 1988

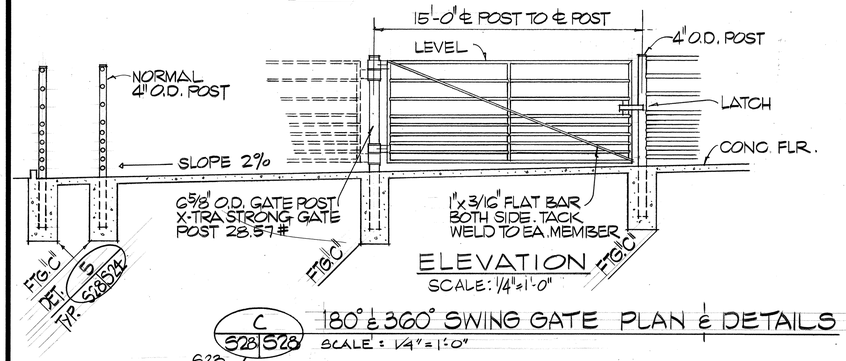
SHEET No. S26 OF 39 SHEETS

DATE	REVISION

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	147	191

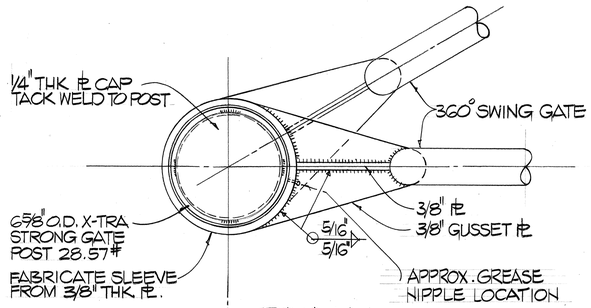




C 528|528 S23 — 180° & 360° SWING GATE PLAN & DETAILS
SCALE: 1/4"=1'-0"

NOTE:

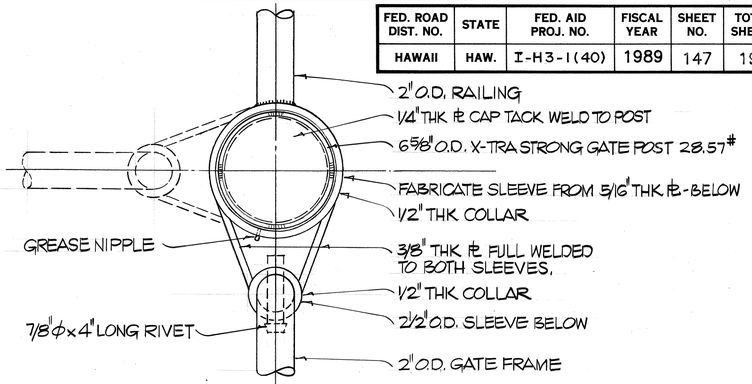
1. ALL INNER POSTS HEIGHT AND HORIZONTAL RAILINGS FOR 360° SWING GATES SHALL BE CONSTRUCTED LEVEL AS PER SECTION



NOTES:

1. 5" SLEEVE SHALL BE FABRICATED WITH A MINIMUM PLAY FOR SMOOTH SWINGING. GREASE WELL.
2. BOTTOM HINGE SIMILAR.
3. PROVIDE GREASE NIPPLE PER SLEEVE.

1 528|528 — 360° SWING GATE HINGE DET.
SCALE = 3" = 1'-0"



NOTES:

1. SEE NOTE 1, 2 & 3 OF DET. 1/525-S25
2. RIVET SHALL BE SLOPED SLIGHTLY & PADLOCK CHAIN LONG ENOUGH FOR RIVET TO BE PULLED OUT FOR 180° OPENING. TACK WELD PADLOCK CHAIN TO SLEEVE & RIVET HEAD.

2 528|528 — 180° SWING GATE HINGE DET.
SCALE = 3" = 1'-0"

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

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RICHARD M. SATO & ASSOCIATES, INC.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN

GATE DETAILS (180°-360° SWING)

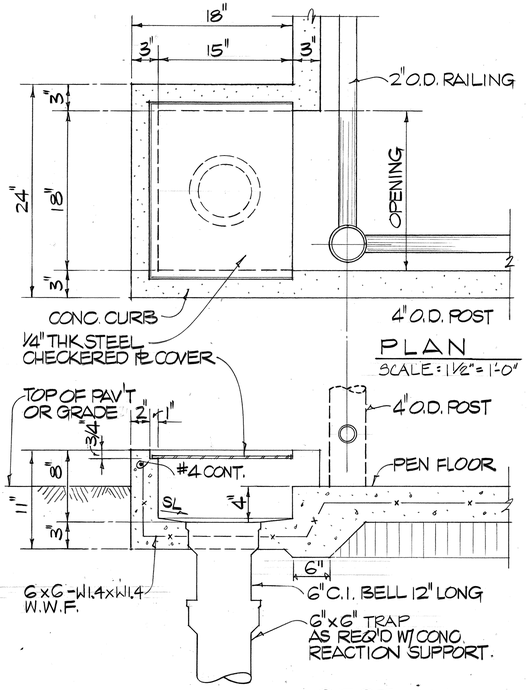
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

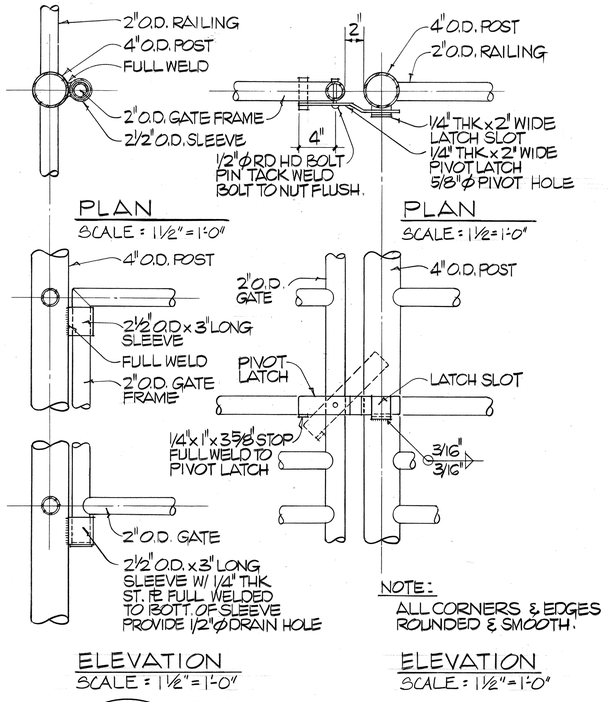
SHEET NO. S28 OF 39 SHEETS

DATE	REVISION

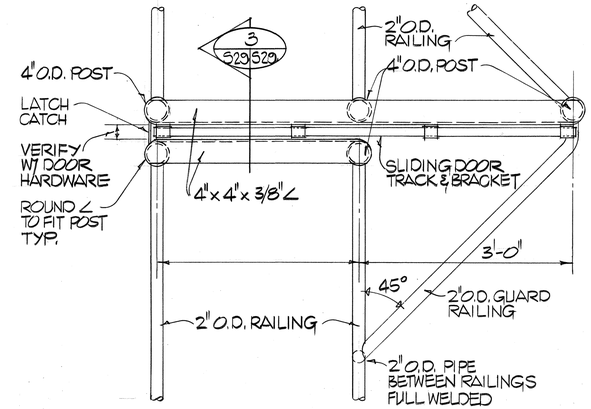
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	148	191

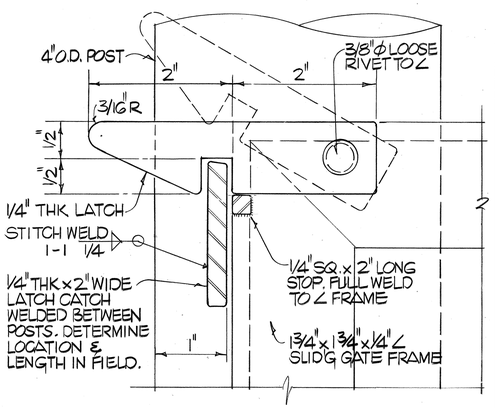


A S23|S29 PEN DRAIN BOX DETAIL
SCALE: 1½"=1'-0"

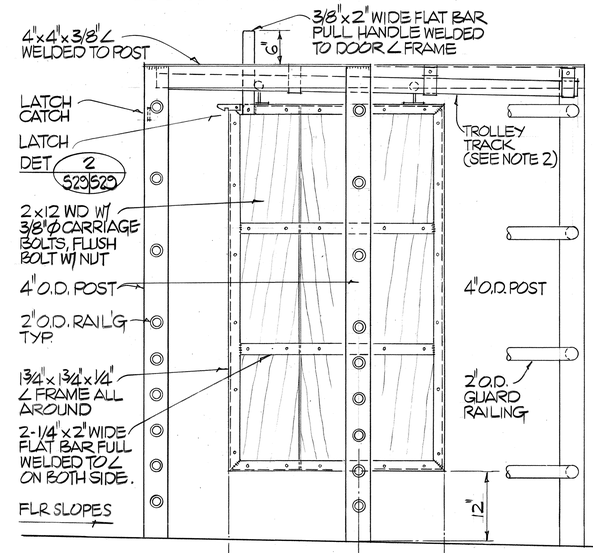


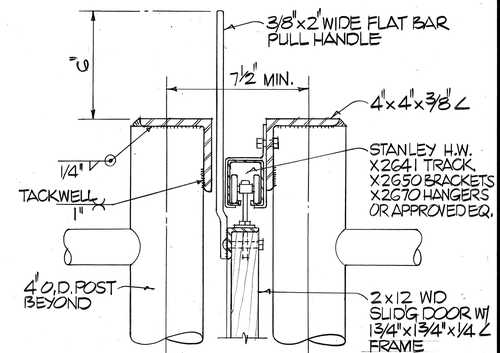
C S23|S29 GATE HINGE & LATCH DET
SCALE: 1½"=1'-0"





2 S29|S29 LATCH DETAIL
FULL SIZE



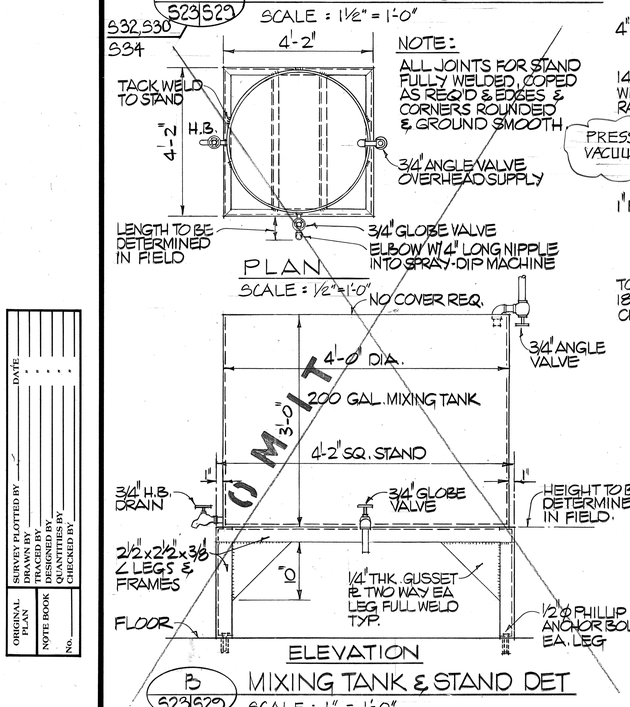


3 S29|S29 DOOR HANGER DET.
SCALE: 3"=1'-0"

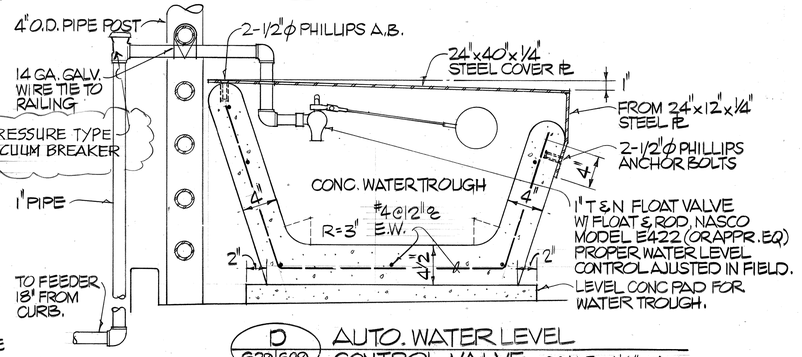
ELEVATION
SCALE: 1"=1'-0"

F S23|S29 SLIDING DOOR DETAIL
SCALE AS NOTED

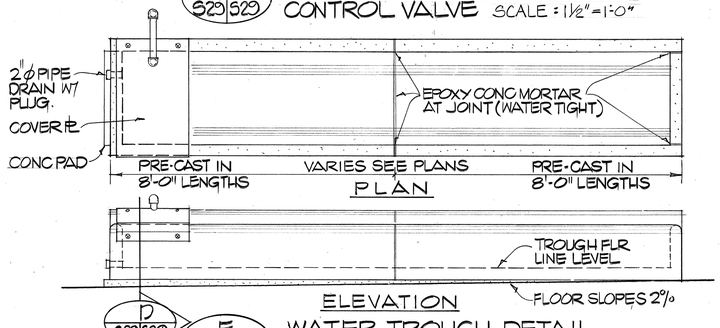
NOTES:
1. SLIDING GATE FOR 3'-0" WIDE CHUTE SHALL BE SIMILAR IN DET. EXCEPT GATE SHALL BE 3'-6" WIDE.
2. TROLLEY TRACK TO BE SLOPED ¼"/FT TO KEEP SLIDING DOOR IN OPEN POSITION.
3. NO PULL HANDLE REQ'D FOR 3'-0" WIDE CHUTE.



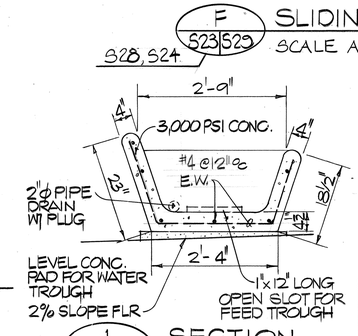
B S23|S29 MIXING TANK & STAND DET
SCALE: 1" = 1'-0"



D S23|S29 AUTO. WATER LEVEL CONTROL VALVE SCALE: 1½"=1'-0"



D S29|S29 E S34, S32, S30 S23|S29 WATER TROUGH DETAIL
SCALE: ½"=1'-0"
NOTE: FEED TROUGH SIMILAR EXCEPT LEVEL CONC PAD NOT REQ'D.



1 S29|S29 SECTION
SCALE: 3/4"=1'-0"

MAT'LS & WORKMANSHIP OF PRECAST TROUGHS SHALL CONFORM W/ SECT. 03300 - C.I.P. CONCRETE.

DATE	REVISION
3/24/89	DELETE MIXING TANK & STAND DETAIL DET. D - ADD PRESS. TYPE VAC. BRK.

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

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN

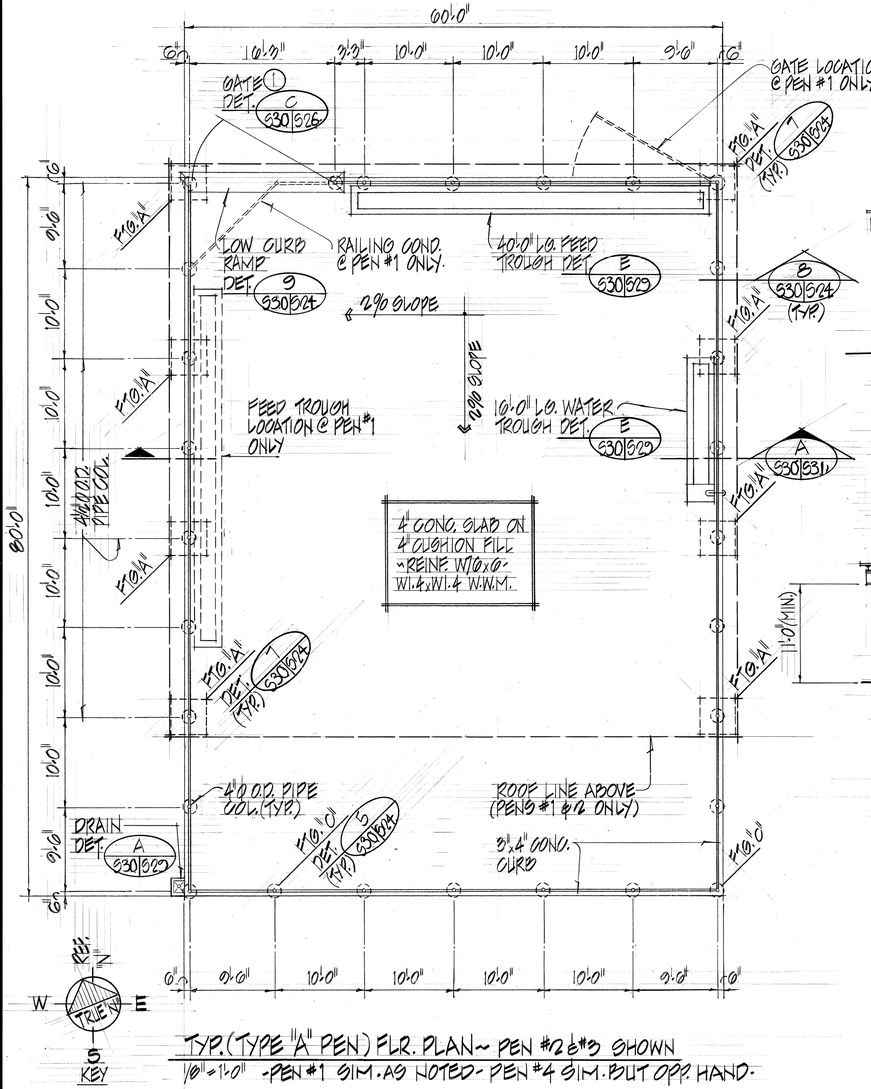
TESTING PEN
(SLIDE GATE DET. & DETAILS)

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

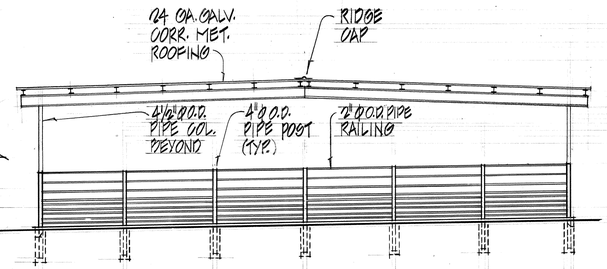
SHEET No. S29 OF 39 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	149	191



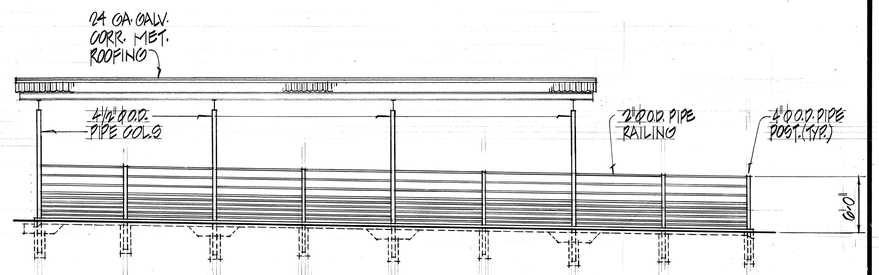
TYP. (TYPE "A" PEN) FLR. PLAN ~ PEN #2 & #3 SHOWN

1/8" = 1'-0" -PEN #1 SIM. AS NOTED- PEN #4 SIM. BUT OPP. HAND-



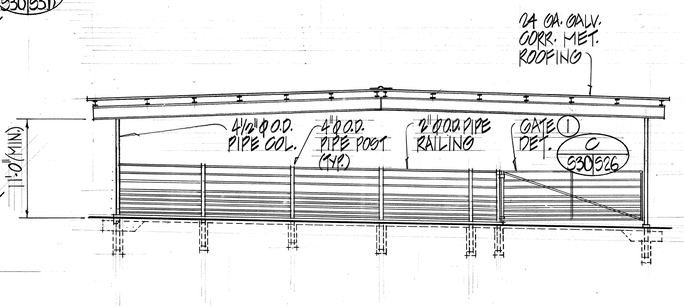
SOUTH ELEVATION

1/8" = 1'-0"



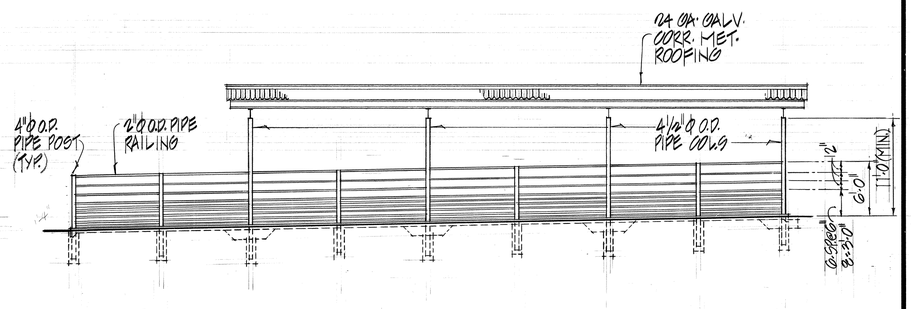
WEST ELEVATION

1/8" = 1'-0"



NORTH ELEVATION

1/8" = 1'-0"



EAST ELEVATION

1/8" = 1'-0"

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

RICHARD M. SATO & ASSOCIATES, INC.

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN

TYPE "A" PEN

(FLR. & FDN. PLAN & EXTERIOR ELEV.)

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

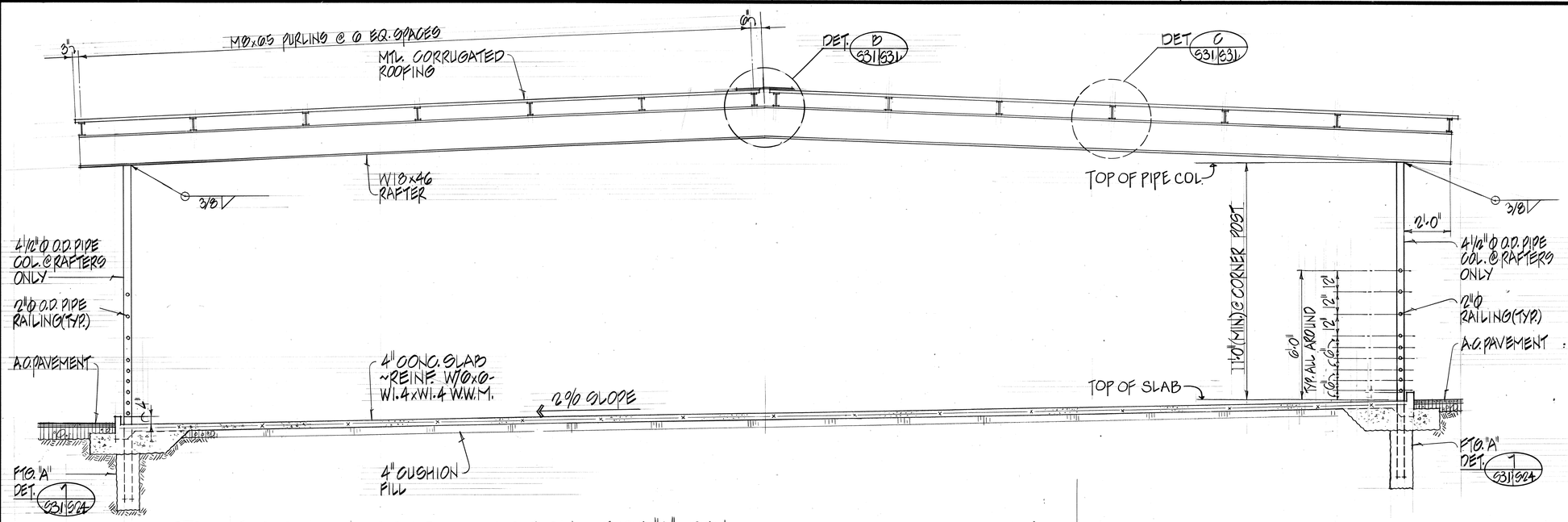
SCALE: AS NOTED DATE: JULY 1988

SHEET No. S30 OF 39 SHEETS

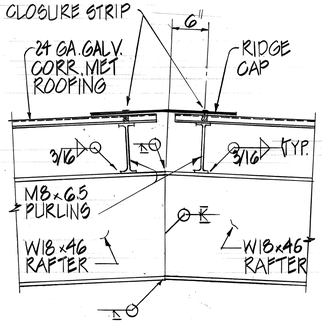
DATE	REVISION

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

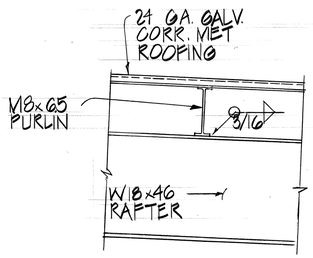
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	150	191



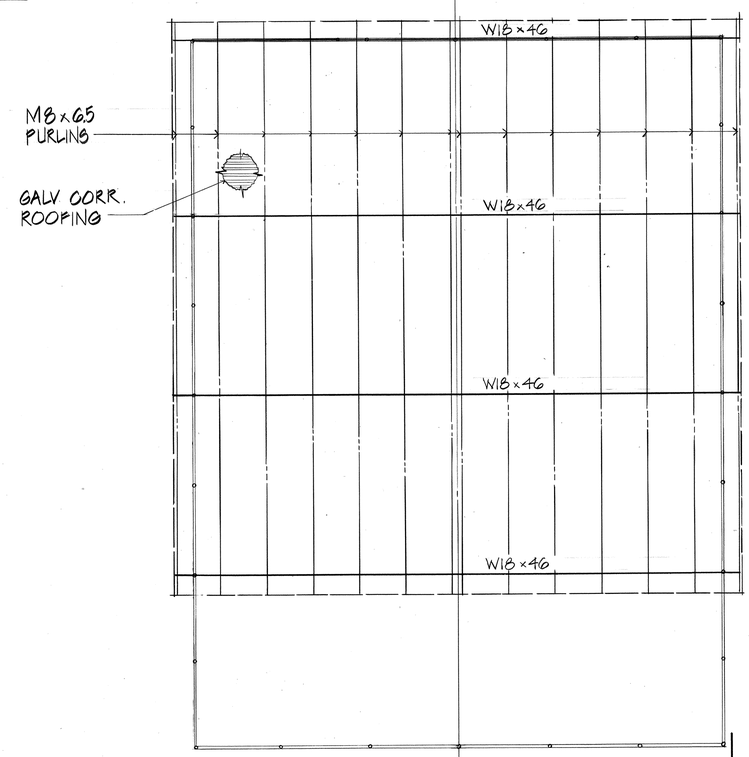
A S30/S31 TYPICAL CROSS SECTION - TYPE "A" PEN
3/8" = 1'-0"



D S31/S31 DETAIL
SCALE: 1"=1'-0"



C S31/S31 DETAIL
SCALE: 1"=1'-0"



ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN

TYPE "A" PEN

(TYP. CROSS SECTION & SECTIONS)

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

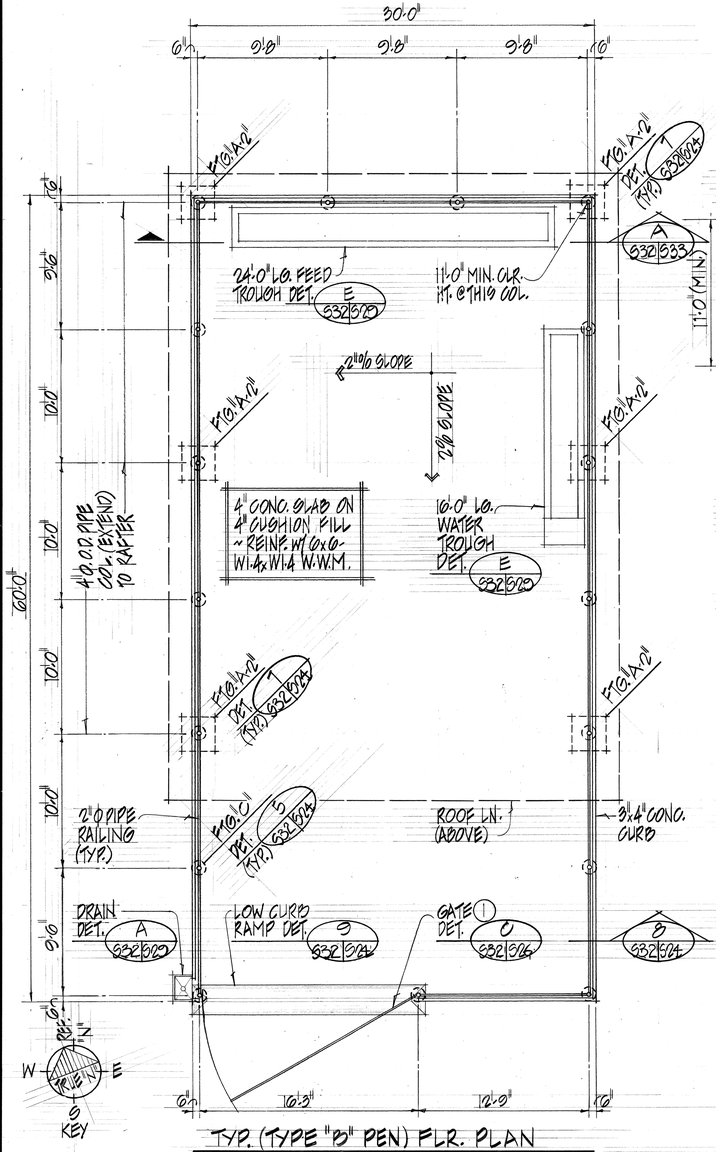
SCALE: AS NOTED DATE: JULY 1988

SHEET No. S31 OF 39 SHEETS

DATE	REVISION

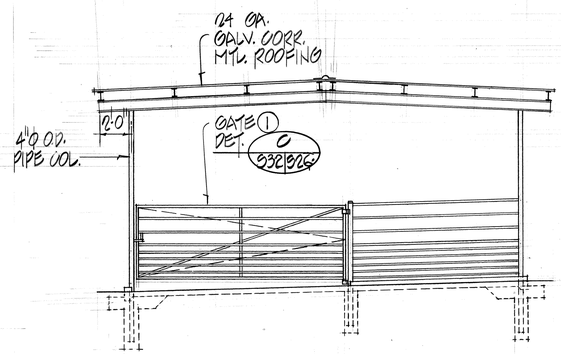
ORIGINAL PLAN
NOTE BOOK No.
SURVEY PLOTTED BY DATE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	151	191



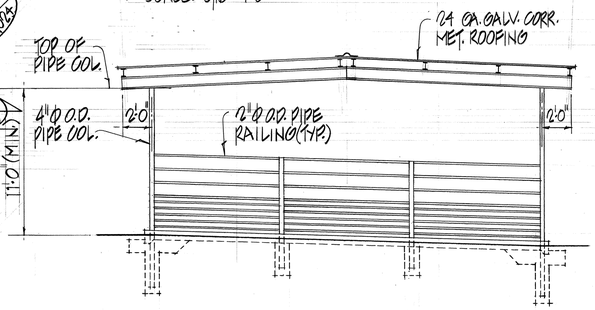
TYP. (TYPE "B" PEN) FLR. PLAN

SCALE: 3/16" = 1'-0"



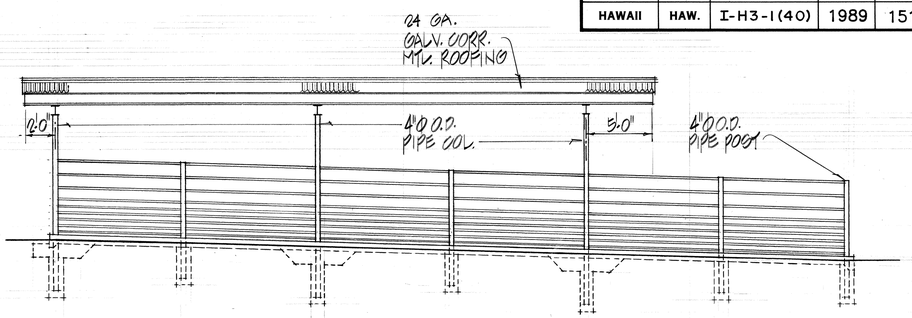
SOUTH ELEVATION

SCALE: 3/16" = 1'-0"



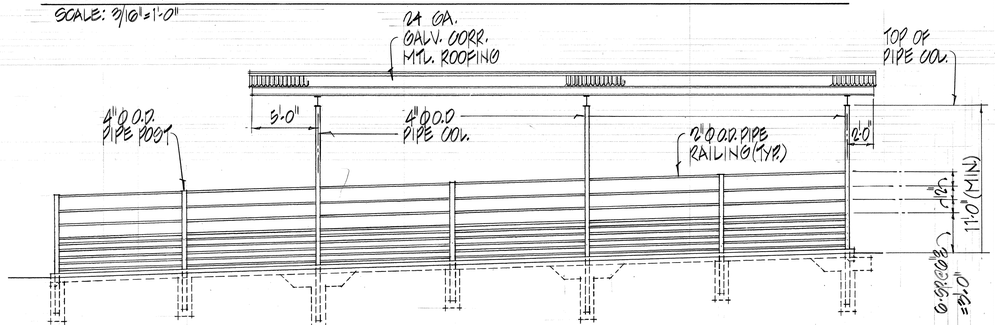
NORTH ELEVATION

SCALE: 3/16" = 1'-0"



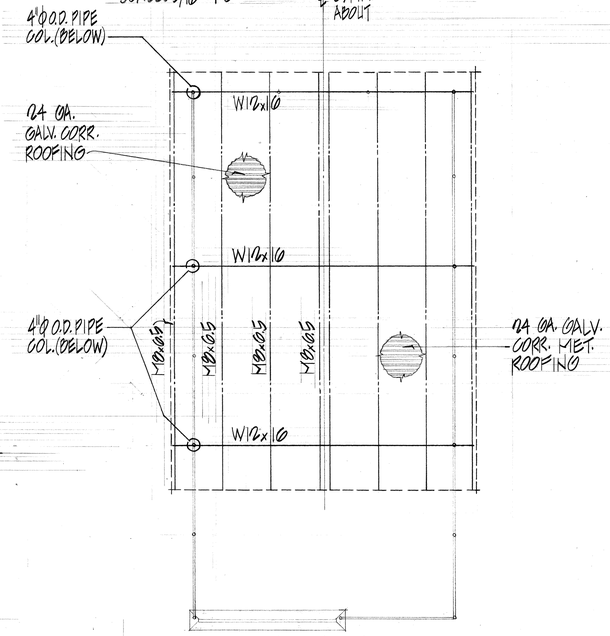
WEST ELEVATION

SCALE: 3/16" = 1'-0"



EAST ELEVATION

SCALE: 3/16" = 1'-0"



ROOF FRAMING PLAN

1/8" = 1'-0"

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

FIG. 12-2.

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN

TYPE "B" PEN

(FLR. & FDN. PLAN & EXTERIOR ELEV.)

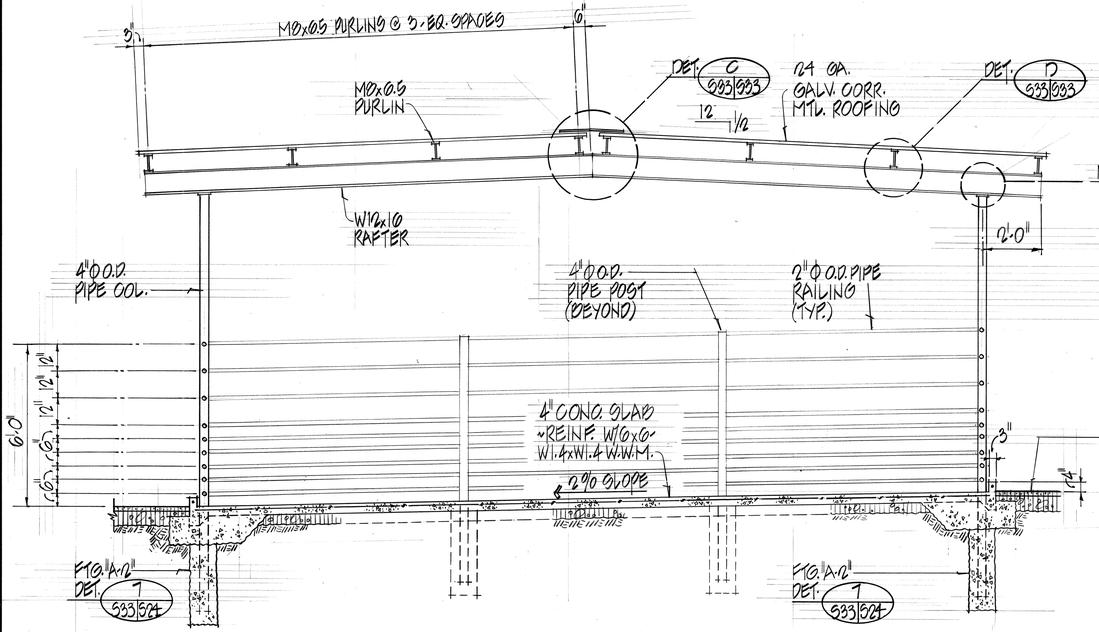
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

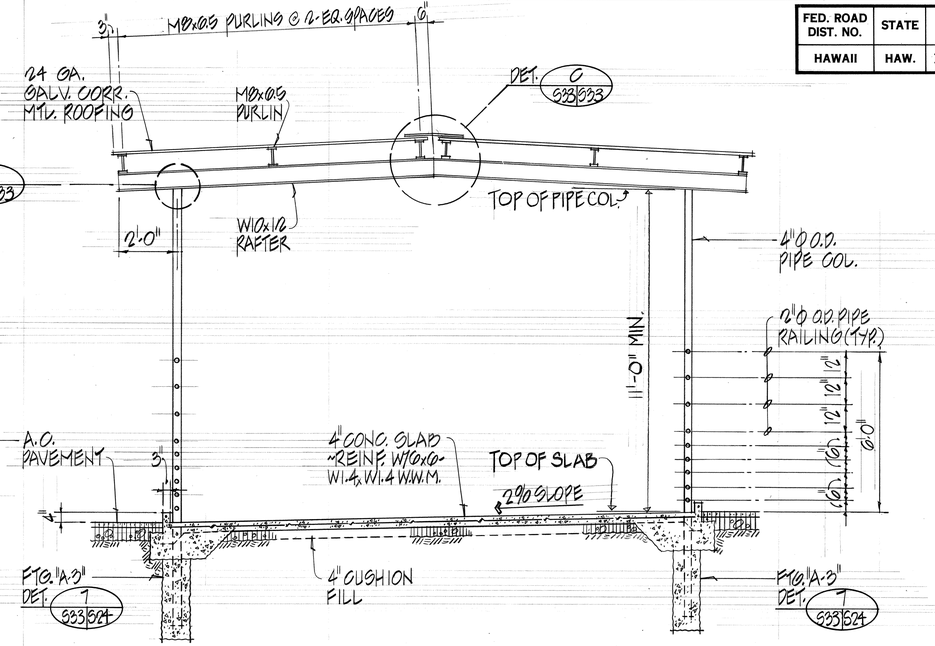
SHEET NO. S32 OF 39 SHEETS

DATE	REVISION

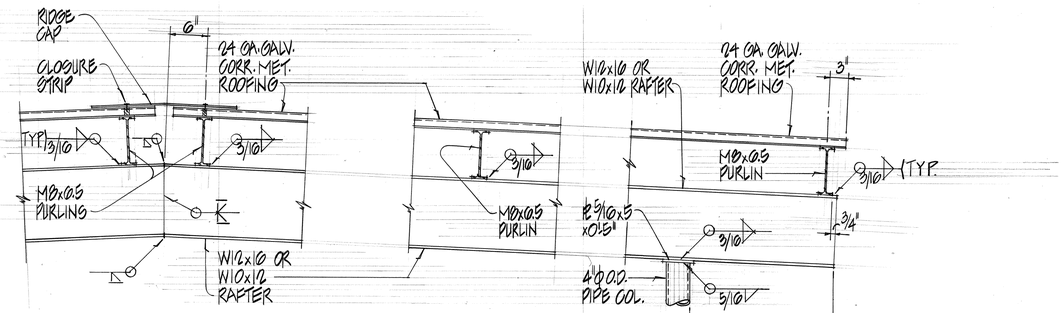
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	152	191



A 532/533 TYP. CROSS SECTION (TYPE "B" PEN)
SCALE: 3/8" = 1'-0"



B 533/533 TYP. CROSS SECTION (TYPE "C" PEN)
SCALE: 3/8" = 1'-0"



C 533/533 DETAIL
SCALE: 1"=1'-0"

D 533/533 DETAIL
SCALE: 1"=1'-0"

E 533/533 DETAIL
SCALE: 1"=1'-0"

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

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN

TYPE "B" & "C" PEN

(TYP. CROSS SECTION & SECTIONS)

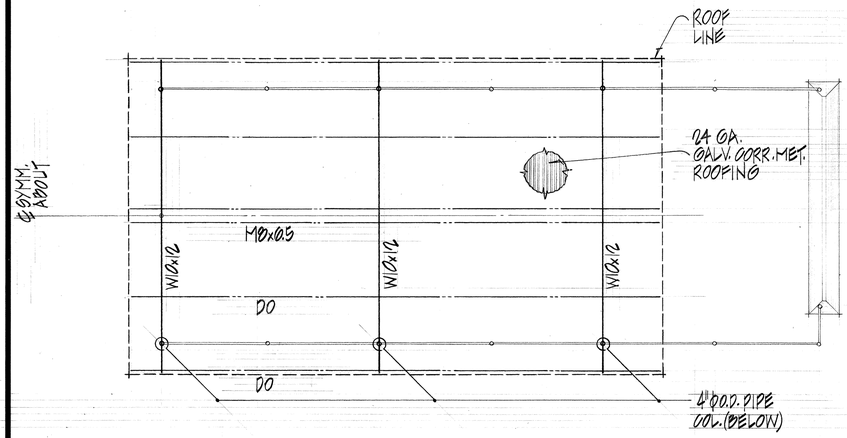
INTERSTATE ROUTE H-3
PROJECT NO. I H3-1(40)

SCALE: AS NOTED DATE: JULY, 1988

SHEET NO. S33 OF 39 SHEETS

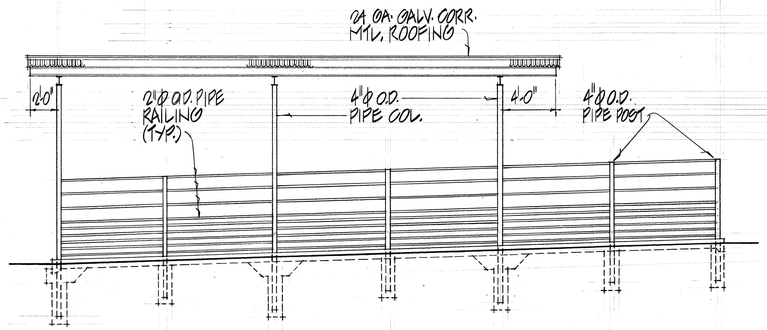
DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	153	191

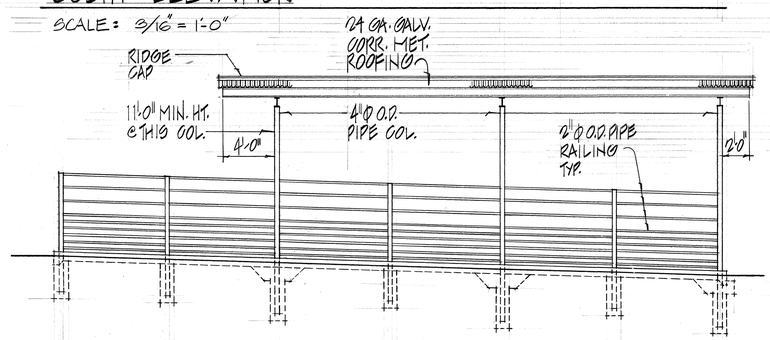


ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"

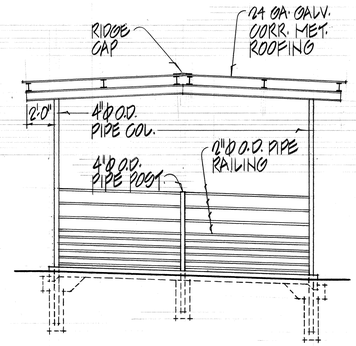


SOUTH ELEVATION

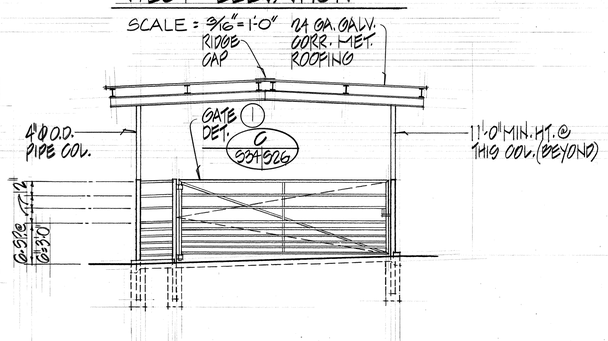


NORTH ELEVATION

SCALE: 3/16" = 1'-0"

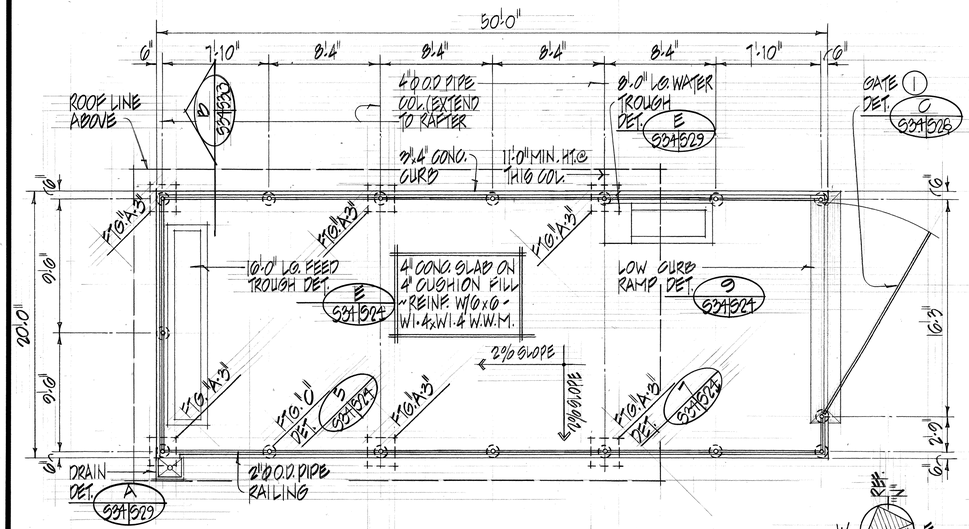


WEST ELEVATION



EAST ELEVATION

SCALE: 3/16" = 1'-0"



FLR. & FDN. PLAN for (TYPE "C" LARGE PEN)

SCALE: 3/16" = 1'-0"

DATE	REVISION

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

RICHARD M. SATO
REGISTERED PROFESSIONAL ENGINEER
No. 2298-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN

TYPE "C" PEN

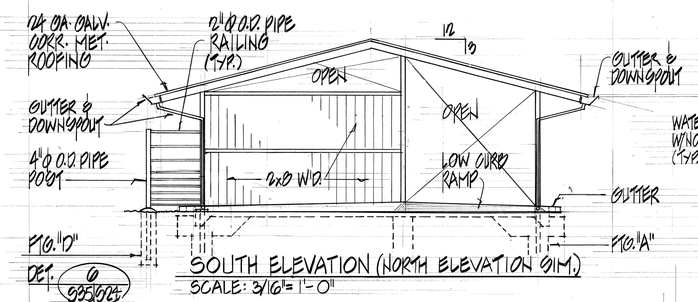
(FLR & FDN. PLAN & EXTERIOR ELEV.)

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

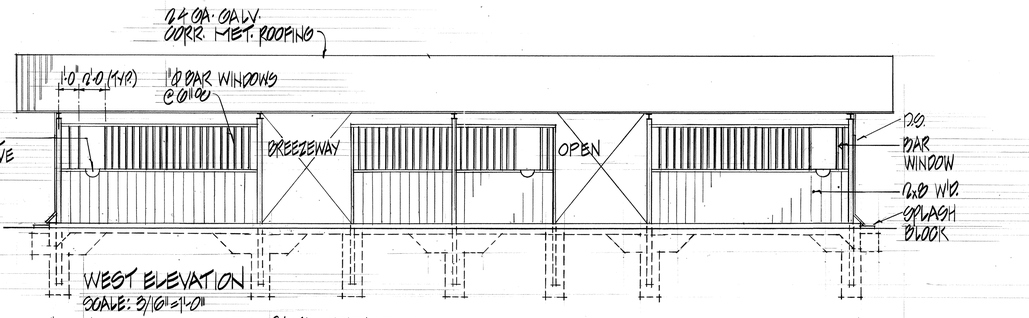
SCALE: AS NOTED DATE: JULY 1988

SHEET No. S34 OF 39 SHEETS

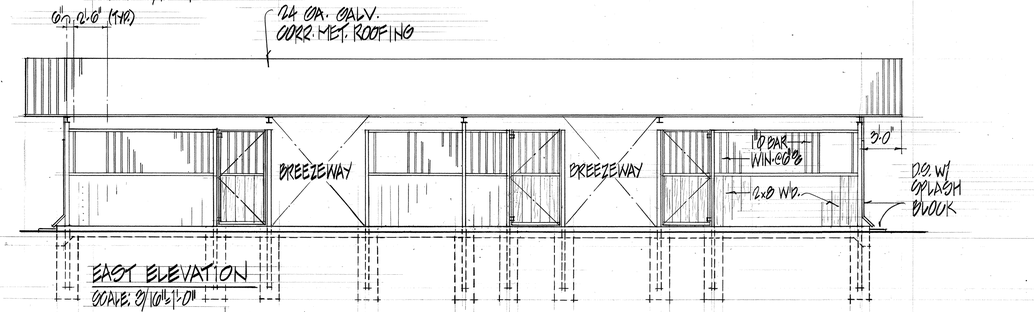
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	154	191



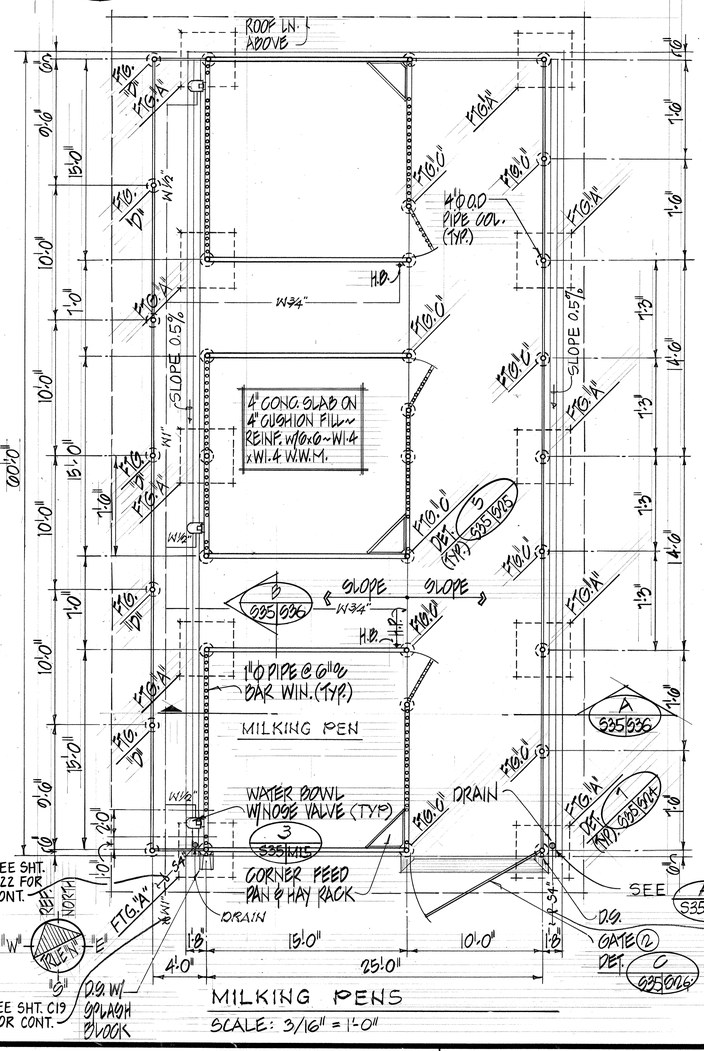
SOUTH ELEVATION (NORTH ELEVATION SIM.)
SCALE: 3/16"= 1'-0"



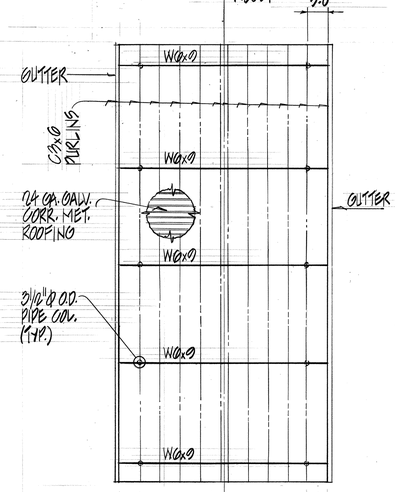
WEST ELEVATION
SCALE: 3/16"=1'-0"



EAST ELEVATION
SCALE: 3/16"=1'-0"



MILKING PENS
SCALE: 3/16" = 1'-0"



ROOF FRAMING PLAN
SCALE: 3/32"=1'-0"

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN

MILKING PEN
(FLR. & FDN. PLAN & EXTERIOR ELEV.)

INTERSTATE ROUTE H-3
PROJECT NO. I H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

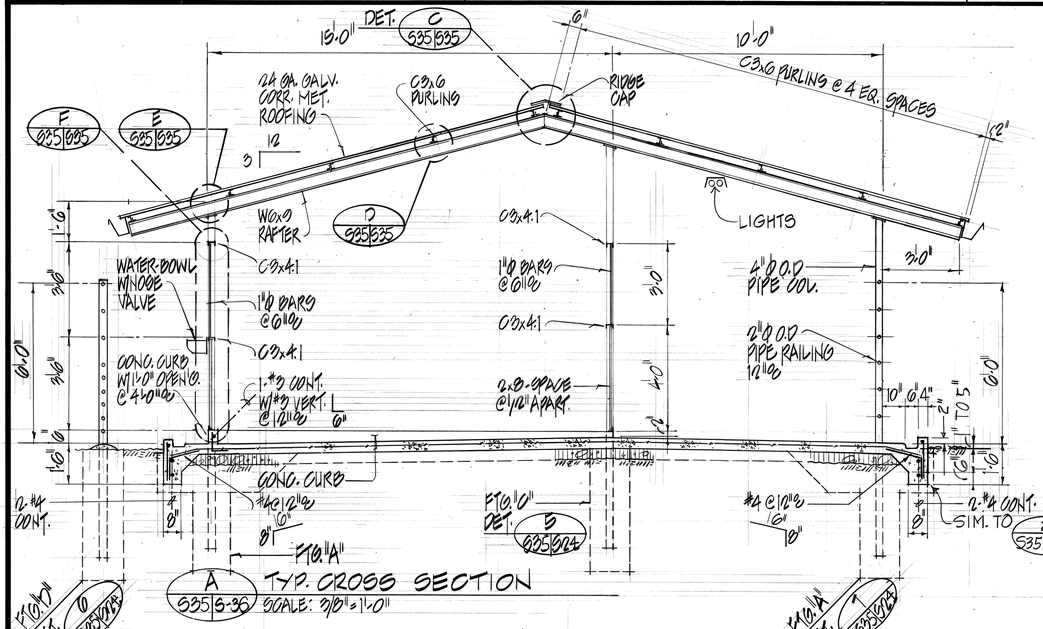
SHEET No. S35 OF 39 SHEETS

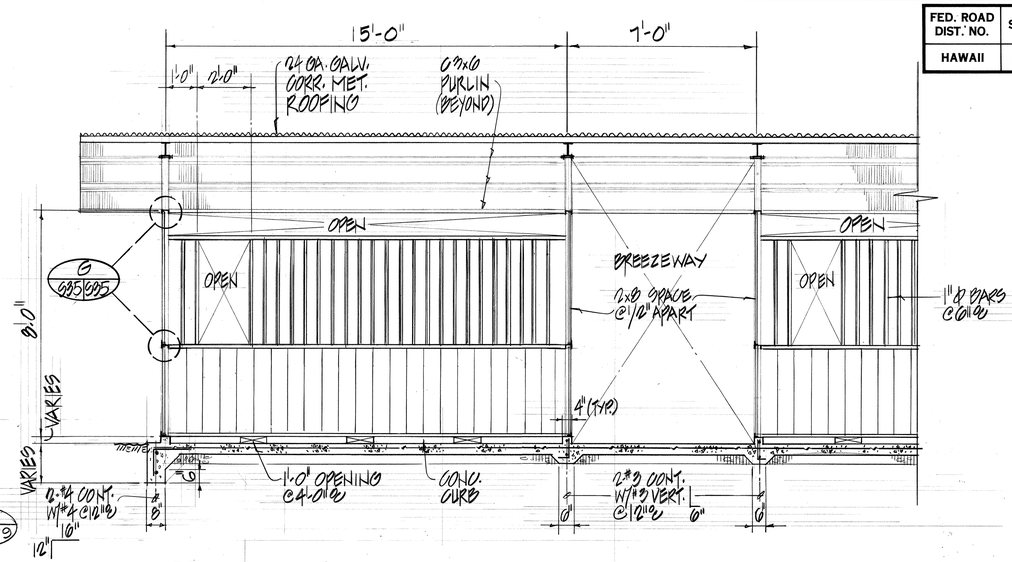
DATE	REVISION

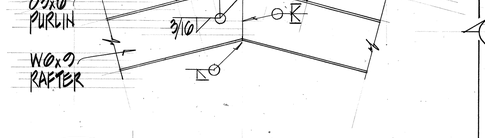
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

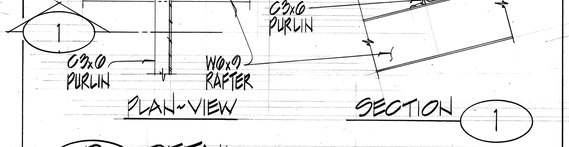
ORIGINAL PLAN
NOTE BOOK
No.

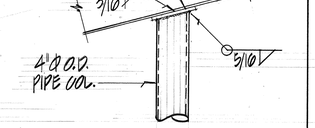
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	155	191

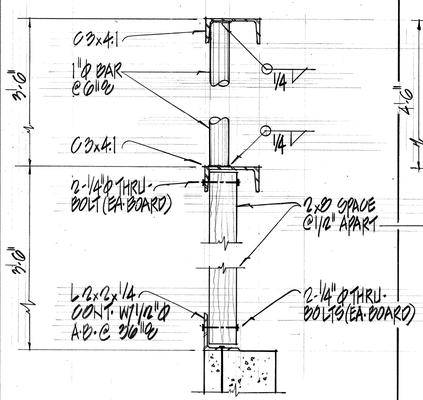


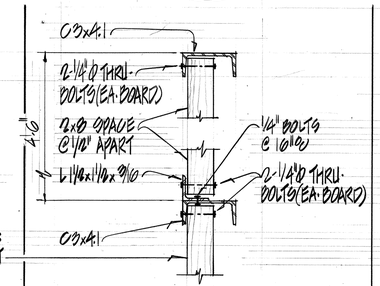


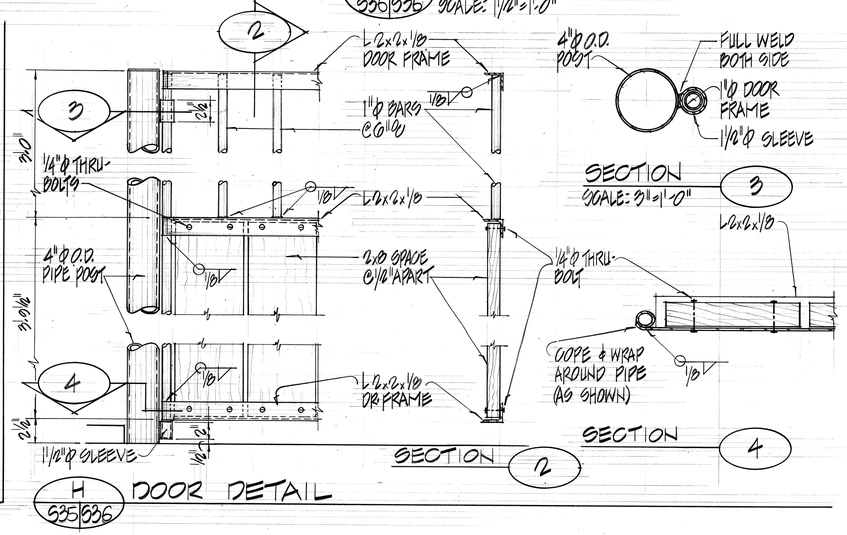












ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
	DESIGNED BY	
NO.	QUANTITIES BY	
	CHECKED BY	

RICHARD M. SATO REGISTERED PROFESSIONAL ENGINEER No. 2298-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN

MILKING PEN

(TYP. CROSS SECTION & SECTIONS)

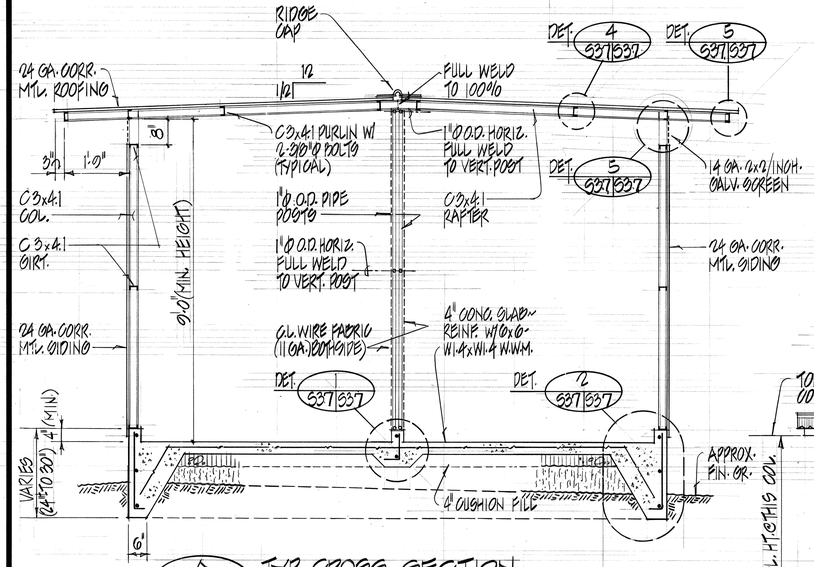
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

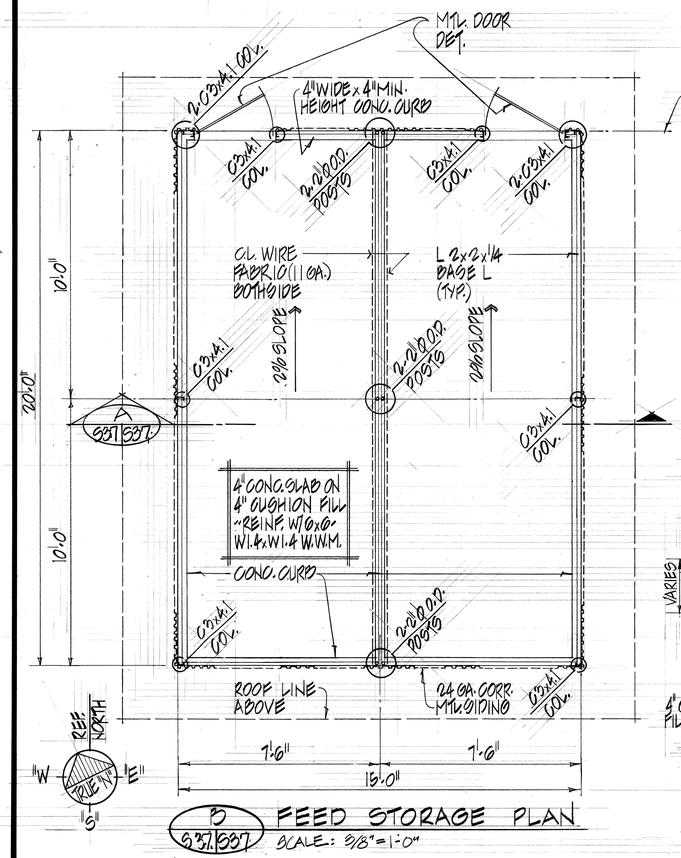
SHEET No. S36 OF 39 SHEETS

DATE	REVISION

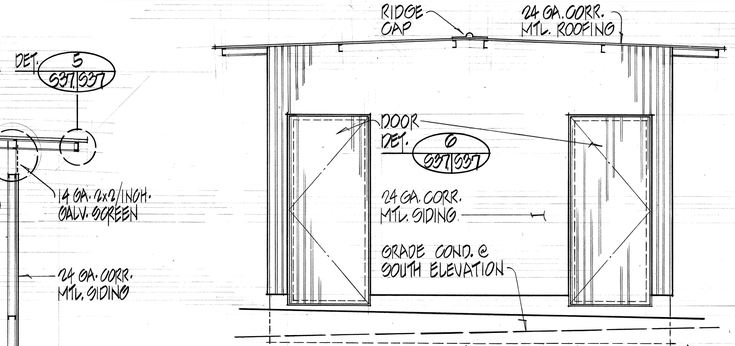
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I H3-1(40)	1989	156	191



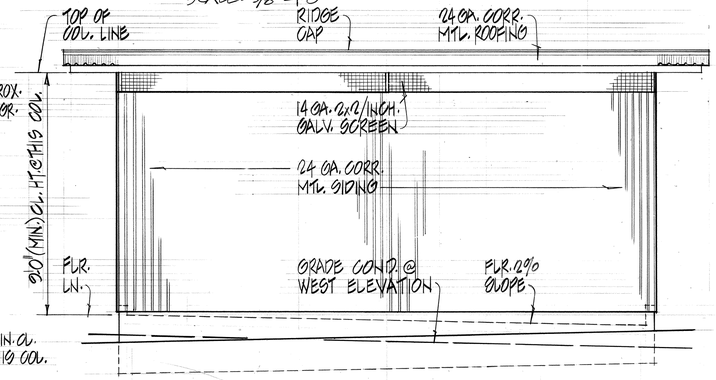
A S37/S37 TYP. CROSS SECTION
SCALE: 1/2" = 1'-0"



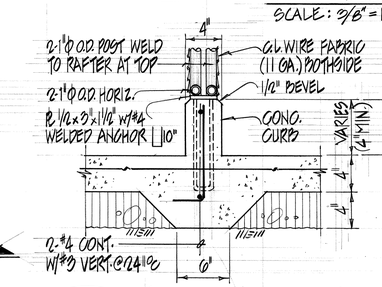
5 S37/S37 FEED STORAGE PLAN
SCALE: 3/8" = 1'-0"



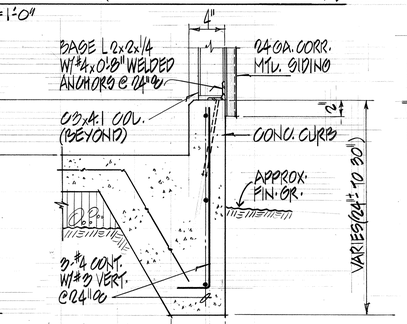
NORTH ELEVATION (SOUTH ELEVATION SIMILAR BUT WITHOUT DOOR)
SCALE: 3/8" = 1'-0"



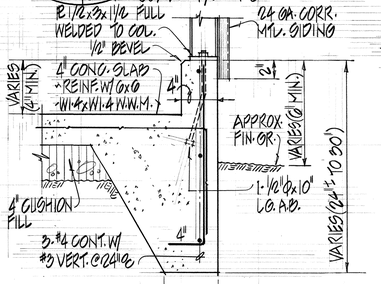
EAST ELEVATION (WEST ELEVATION SIMILAR)
SCALE: 3/8" = 1'-0"



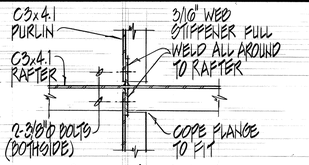
1 S37/S37 TYP. MID. CURB DETAIL
SCALE: 1 1/2" = 1'-0"



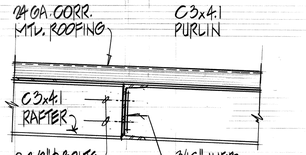
3 S37/S37 CURB DETAIL BETWEEN
SCALE: 1 1/2" = 1'-0"



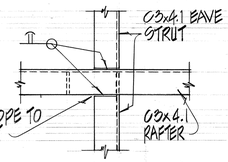
2 S37/S37 TYP. COL. BASE CONN. DET.
SCALE: 1 1/2" = 1'-0"



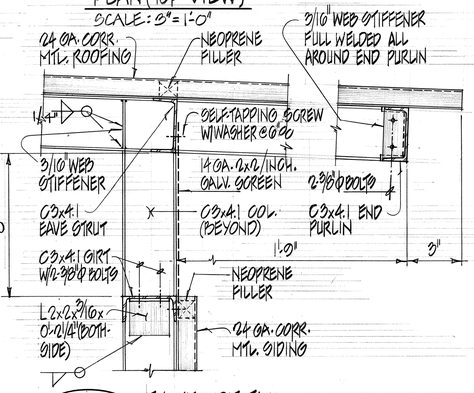
PLAN / SECTION



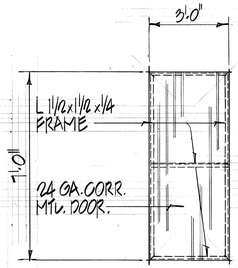
4 S37/S37 PURLIN CONN. DETAIL
SCALE: 3/8" = 1'-0"



PLAN (TOP VIEW)
SCALE: 3" = 1'-0"

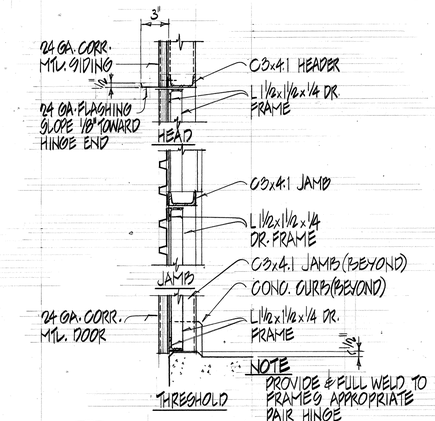


5 S37/S37 EAVE DETAIL
SCALE: 1 1/2" = 1'-0"



NOTE:
DOOR FRAME CORNERS MITERED & ALL JOINTS FULLY WELDED, COPE MID-RAIL TO FIT

DOOR SCHEDULE



6 S37/S37 DOOR DETAILS
SCALE: 1 1/2" = 1'-0"

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

RICHARD M. SATO
REGISTERED PROFESSIONAL ENGINEER
No. 2298-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
RICHARD M. SATO & ASSOCIATES, INC.

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LARGE ANIMAL PEN

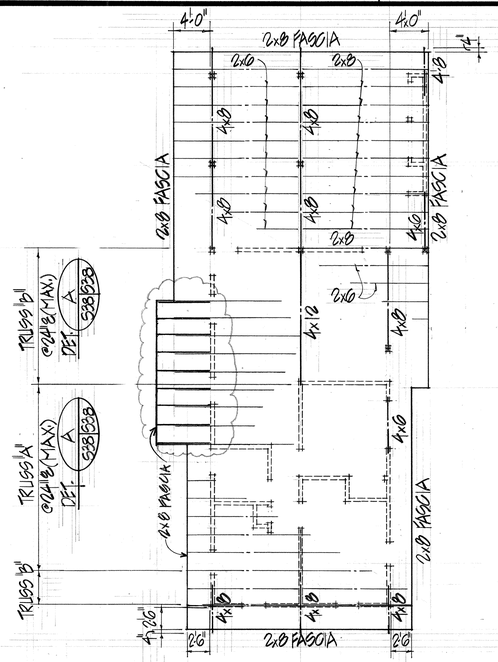
FEED STORAGE PLAN EXTERIOR ELEV.
BLD'G SECTION & SECTIONS

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

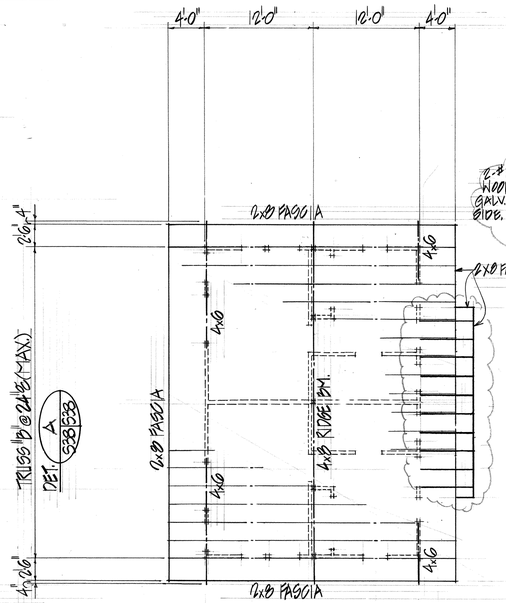
SCALE: AS NOTED DATE: JULY 1988

SHEET NO. S37 OF 39 SHEETS

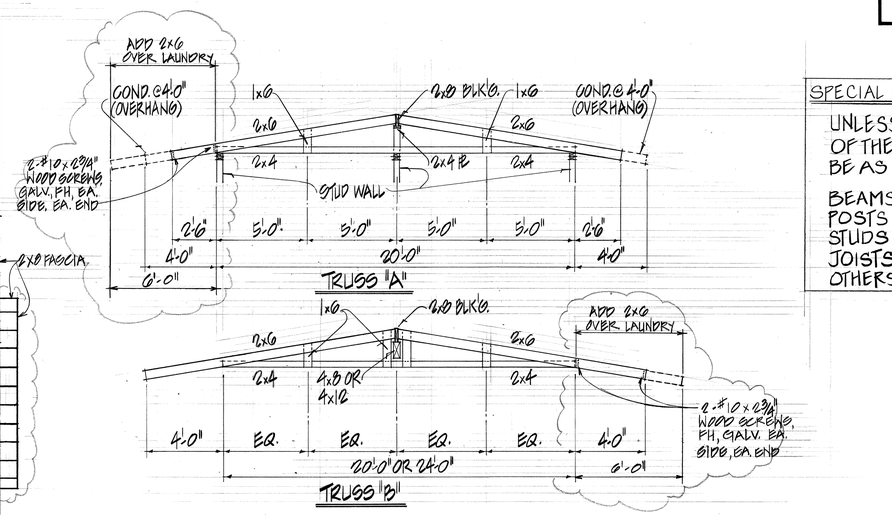
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	157	191



ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"



ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"

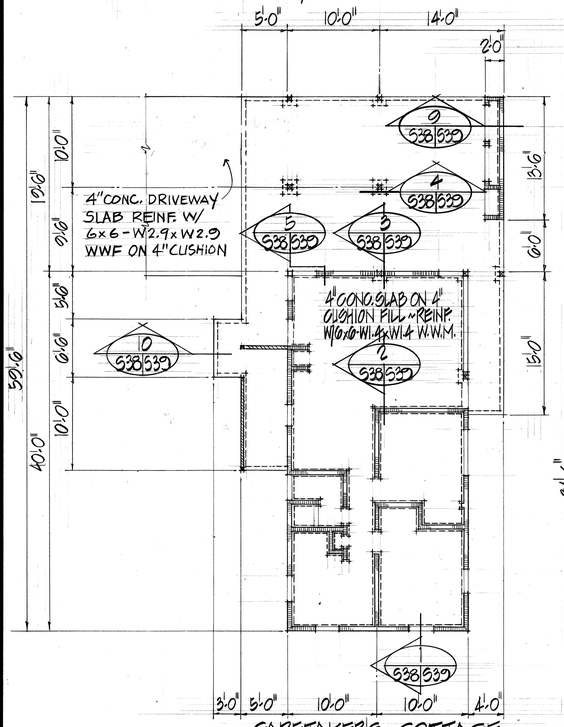


A S38/538 TRUSSES "A" & "B" ELEVATIONS
1/4"=1'-0"

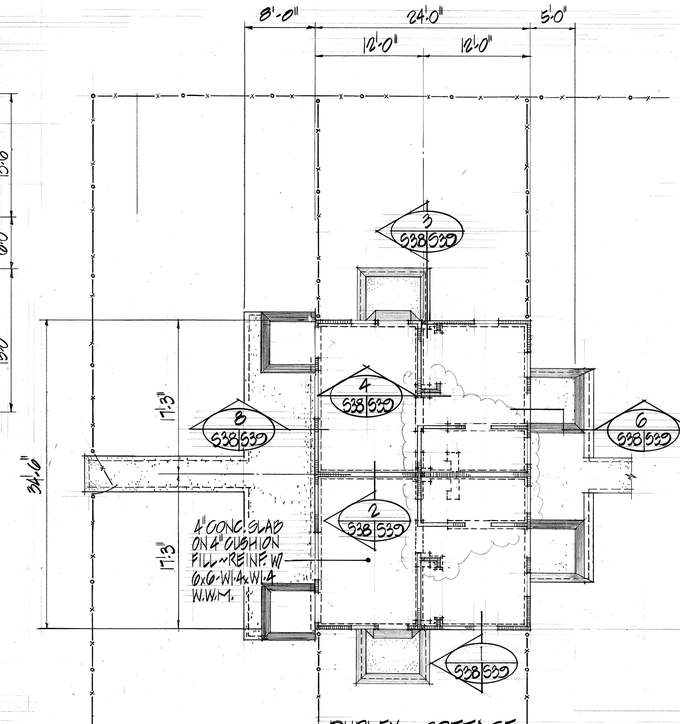
SPECIAL NOTE:

UNLESS NOTED OTHERWISE, THE MINIMUM GRADE OF THE FOLLOWING STRUCTURAL MEMBERS SHALL BE AS FOLLOWS:

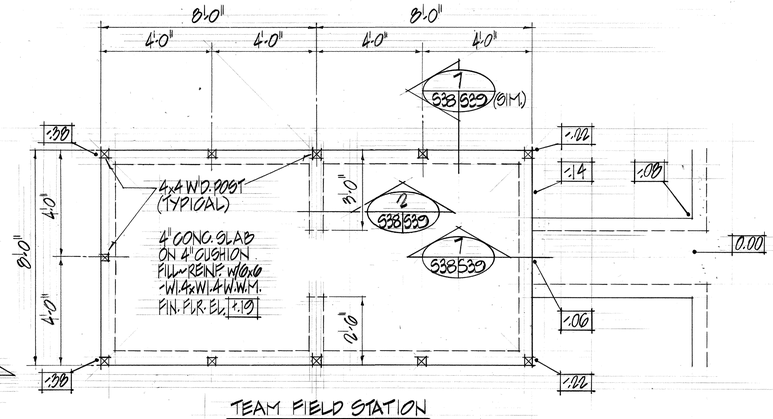
BEAMS (2" TO 4" THICK)	No. 1
POSTS	No. 1
STUDS	No. 1
JOISTS	No. 2
OTHERS	No. 2



CARETAKER'S COTTAGE
FOUNDATION PLAN
SCALE: 1/8"=1'-0"



DUPLEX COTTAGE
FOUNDATION PLAN
SCALE: 1/8"=1'-0"



TEAM FIELD STATION
FOUNDATION PLAN
SCALE: 3/8"=1'-0"

DAVID M. YAMAMOTO REGISTERED PROFESSIONAL ENGINEER No. 1399-S HAWAII U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
DAVID M. YAMAMOTO & ASSOCIATES, INC.

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

DATE	REVISION
12-13-90	REVISED DUPLEX UNITS "A" & "B"
11-21-90	REVISED DUPLEX UNITS "A" & "B"
10-12-90	EXTENDED ROOFS OVER LAUNDRY AREAS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CARETAKER'S COTTAGE, DUPLEX COTTAGE, & TEAM FIELD STATION

FLOOR & ROOF PLANS

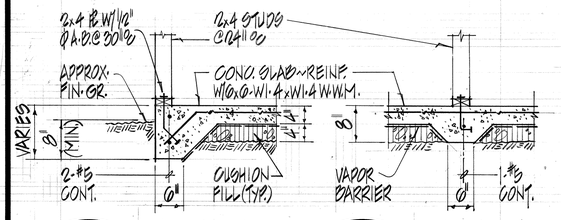
INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

SHEET No. S38 OF 39 SHEETS

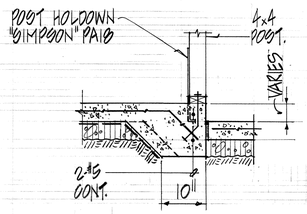
C.O. 157

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(40)	1989	158	191

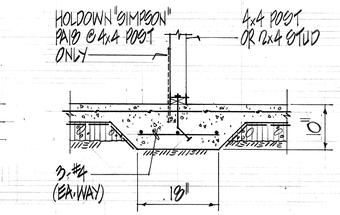


1 SECTION 538|539 3/4" = 1'-0"

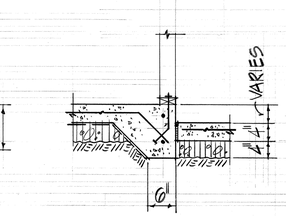
2 SECTION 538|539 3/4" = 1'-0"



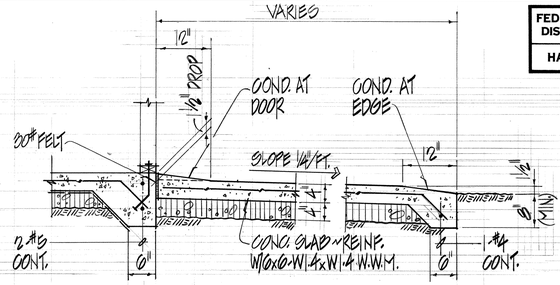
3 SECTION 538|539 3/4" = 1'-0"



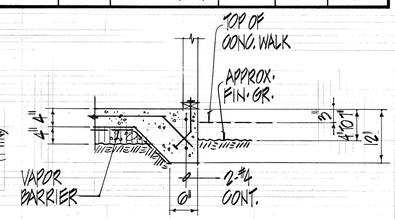
4 SECTION 538|539 3/4" = 1'-0"



5 SECTION 538|539 3/4" = 1'-0"

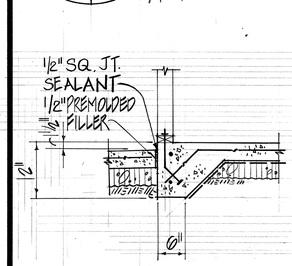


6 SECTION 538|539 3/4" = 1'-0"

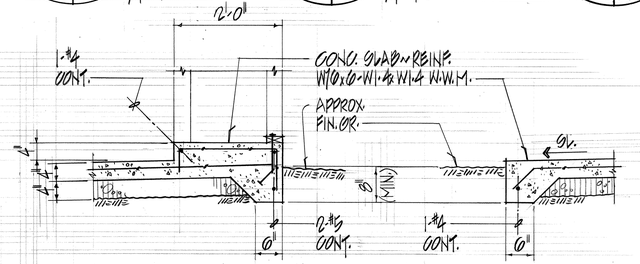


7 SECTION 538|539 3/4" = 1'-0"

NOTE:
SEE SPECIAL NOTE ON PREVIOUS SHEET FOR MINIMUM LUMBER GRADES.

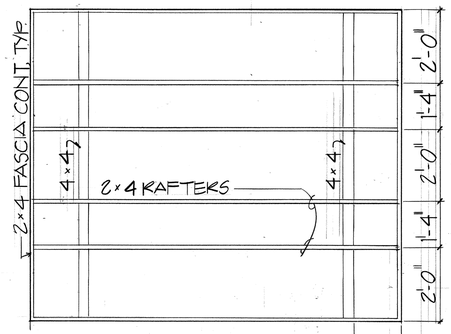


8 SECTION 538|539 3/4" = 1'-0"

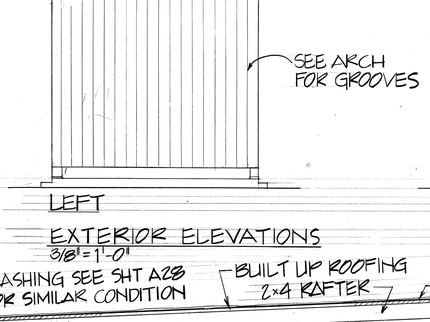


9 SECTION 538|539 3/4" = 1'-0"

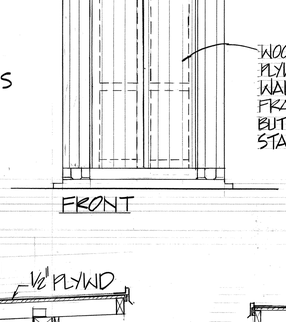
10 SECTION 538|539 3/4" = 1'-0"



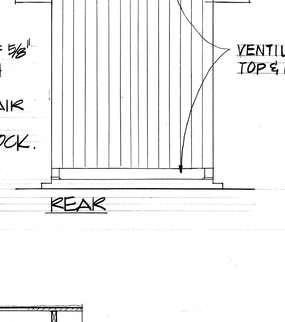
ROOF FRAMING PLAN
1/2" = 1'-0"



LEFT

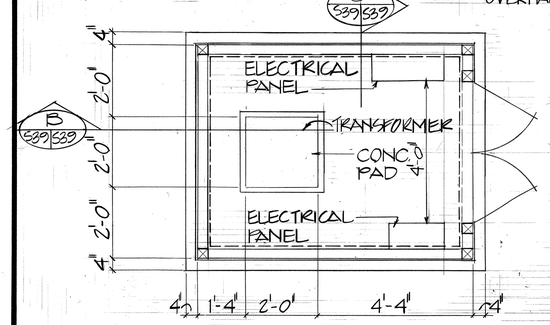


FRONT

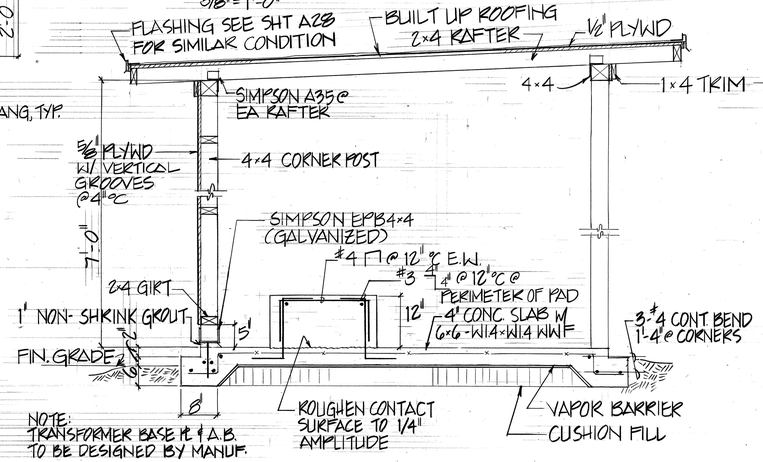


REAR

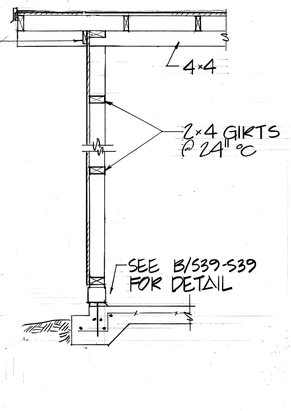
EXTERIOR ELEVATIONS
3/8" = 1'-0"



PROTECTIVE SHEDS FOR TRANSFORMERS
A FOUNDATION PLAN
C14, C15 539|539 1/2" = 1'-0"



B SECTION 539|539 3/4" = 1'-0"



C SECTION 539|539 3/4" = 1'-0"

DAVID M. YAMAMOTO REGISTERED PROFESSIONAL ENGINEER No. 1399-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
RICHARD M. SATO & ASSOCIATES, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CARETAKER'S COTTAGE, DUPLEX COTTAGE, TEAM FIELD STATION, & TRANSFORMER PROTECTIVE SHEDS

FLOOR PLAN, ELEVATIONS, & SECTIONS

INTERSTATE ROUTE H-3
PROJECT NO. I-H3-1(40)

SCALE: AS NOTED DATE: JULY 1988

SHEET No. S39 OF 39 SHEETS

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