

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7413A-01-04M	2014	49	62

GENERAL NOTES

DESIGN SPECIFICATIONS:

AASHTO LRFD Bridge Design Specifications, 5th Edition 2010, including all interim revisions
State of Hawaii, Department of Transportation, Highways Division, "Design Criteria for Bridges and Structures", March 1, 2013

CONSTRUCTION SPECIFICATIONS:

Hawaii Standard Specifications for Road and Bridge Construction 2005, including Special Provisions
Bridge Welding Code -- AWS D1.5M/D1.5:2010
Standard symbols for welding, brazing and nondestructive examination, AWS A2.4:2007

MATERIALS:

Concrete: 4,000 psi, unless otherwise specified
Concrete Admixtures: See Special Provisions
Concrete for bridges, bridge rails, concrete barriers, retaining walls and transitions shall meet the requirements of Section 601, Structural Concrete
A shrinkage-reducing admixture (SRA), Tetraguard AS20, manufactured by BASF, or Eclipse, Manufactured by W.R. Grace & Co., or approved equal shall be added to the concrete. The minimum dosage requirement shall be 128 ounces per cubic yard of concrete. The concrete shall have a minimum shrinkage strain of 0.00006 at 28-days and 0.000145 at 56-days according to ASTM C512
A corrosion inhibitor amine carboxylate water-based admixture shall be added to the concrete. The minimum dosage shall be 1.5 pints per cubic yard of concrete

REINFORCING STEEL:

Deformed and plain carbon-steel bars for concrete reinforcement shall meet the requirements of AASHTO M 31M/M 31-07 Grade 60. (ASTM A615 Grade 60)
Deformed or plain stainless steel bars for concrete reinforcement shall meet the requirements of ASTM A955 Grade 60 Type 316L (UNS Designation S31603)

STRUCTURAL STEEL:

All structural steel shapes, plates, bars and assemblies shall be hot-dipped galvanized after fabrication
Hot-Dip Galvanizing for structural iron and steel products made from rolled, pressed and forged shapes, castings, bars and plates, including unfabricated and fabricated products, shall conform to ASTM A123 (AASHTO M111)
Angles (L-Shapes) and Channels (C-Shapes) shall conform to ASTM A36
Structural Steel Plates and Bars shall conform to ASTM A36
Steel rail tubing shall conform to ASTM A500, Grade B
High-strength bolts (heavy hex structural bolts) shall conform to ASTM A325 Type 3 unless otherwise specified and hot-dip galvanized in accordance to ASTM A153 Class C
Nuts for ASTM A325 bolts shall conform to AASHTO M291 (ASTM A563) Grade DH and hot-dip galvanized in accordance to ASTM A153 Class C
Washers for bolts shall conform to ASTM F436 Type 1 and hot-dip galvanized in accordance to ASTM A153 Class C

DRILLED SHAFT:

Excavation for drilled shaft shall be observed by the Geotechnical Engineer prior to placement of concrete. Cross Sonic Log (CSL) is required for every drilled shaft. Concrete for drilled shaft shall have a minimum of 28 days compressive strength of 4,500 psi.

MISCELLANEOUS MATERIALS:

Preformed expansion joint filler for concrete (bituminous type) shall conform to AASHTO M 33-99 (2007). ASTM D 994-98 (2003)

SYMBOLS AND ABBREVIATIONS

Detail or Section designation
Sheet No. Section is cut or
Detail Location

XXX
XXX XXX

Sheet No. Detail is drawn

⊗ - Bearing Abutment Seat Line
⦿ - Boring No. & Designation
△ - Angle of Curve, Deflection Angle Between Tangents
∅ - Diameter
⋈ - And
∠ - Angle

AB Anchor Bolt
Abut. Abutment
at#t Exist. underground telephone cable
Alum. Aluminum
Approx. Approximate
AASHTO American Association of State and Highway Transportation Officials
ANSI American National Standards Institute
ASTM American Society for Testing and Materials
AWS American Welding Society

Ⓢ Baseline
Bal. Balance
Beg. Begin, Beginning
Bet., Btw. Between
B.F. Back Face
B.F.E. Bottom Footing Elevation
Bk. Back
Blf. Bolt
Bm. Beam
B, Bot., Bott. Bottom
B.O.C. Bottom of Curb
Br. Bridge
Brg., Brgs. Bearing, Bearings
B.V.C. Beginning of Vertical Curve
B.W. Both Ways

Ⓢ Center Line
cdi Exist. Concrete Drop Inlet
Cant. Cantilever
C.F. Cubic Feet
CiP Cast in Place
C.I.P. Cast Iron Pipe
Cl., Clr. Clear
Col. Column
Conc. Concrete
Conn. Connection
Const. Construction
Cont. Continuous
CRM Cement Rubble Masonry
CR Corrosion Resistant
C.Y., Cu. Yd. Cubic Yards

Det. Delta, △
Dia., ∅
Diag. Diagonal
Dim. Dimension
Dwg., Dwgs. Drawing, Drawings

E East
EA, Ea., ea. Each
E.F. Each Face
Elec. Electrical
emh Exist. Electric Manhole
El., Elev. Elevation
Emb. Embankment
E.P. Edge of Pavement
Eq. Equal
Est. Estimated
E.W. Each Way
Exc. Excavation
Exist. Existing
Exp., (E) Expansion
Ext. Exterior

(F) Fixed
Fc Specified Strength of Concrete
Fci Strength of Concrete at Time of Initial Prestress
F.F. Front Face
Fig. Figure
Fin. Finish
Fin. Gr. Finish Grade
Ftg. Footing

Ga. Gage, Gauge
Galv. Galvanized
Gir., G Exist. Grated Drop Inlet
gdi Girder
G.R.P. Grouted Rubble Paving
Gr. Grade
Grd. Ground

(H) Hinge
Horiz. Horizontal
HS High Strength
Ht. Height
Hwy. Highway

I.B. Inbound
ID Inside Dimension
I.F. Inside Face
In. Inch
Int. Interior
Inv. Invert

Jt. Joint

L Length
LBS., lb., lbs. Pound, Pounds
Lc Length of Curve
L.F., Lin. Ft. Linear Feet
Lg. Long
Longit. Longitudinal
L.S. Lump Sum
Lt. Left
Ltg. Std. Lighting Standard

Max. Maximum
Mech. Mechanical
Min. Minimum
Misc. Miscellaneous

N North
N.B. Northbound
N.F. Near Face
No., # Number
N.T.S. Not To Scale

O.B. Outbound
oc On Center
OD Outside Dimension
O.G. Outside Girder
Opn'g Opening
o/s, O/S Offset

P.B. Pull Box
P.C. Point of Curvature
P.C.C. Portland Cement Concrete
Perf. Perforated
PG-() Prestressed Girder-(Type)
PL Plate
plf Pounds per Linear Foot
pp Exist. Power Pole
P/S Prestressed Strands
Pvmt. Pavement

R Radius
Rdwy Roadway
Ref. Reference
Reinf. Reinforcement
Ret. Retaining
Req'd Required
R.F. Rear Face
Rt. Right
R/W Right Of Way

s# Sewer Line # inches diameter
S South
S.B. Southbound
Sect. Section
SF Square Feet
Shldr. Shoulder
Sht. Sheet
smh Exist. Sewer Manhole
Spc. Space
Spcd. Spaced
Spcg. Spacing
Spcs. Spaces
Spec. Specification
Sprd. Spread
Sta. Station
Std. Standard
Stirr. Stirrup
Str. Straight
Struct. Structural
Symm. Symmetrical

t Exist. underground telephone cable
T Top or Tangent
Temp. Temporary
Thk. Thick, Thickness
tmh Exist. Telephone Manhole
T#B Top # Bottom
T.O.D. Top Of Deck
T.O.W. Top Of Wall
Tot. Total
tp Exist. Telephone Pole
tp Transv. Transverse
TS Tube Steel
Typ. Typical

Var. Varies
V.C. Vertical Curve
Vert. Vertical

W West
w/ With
w# Water Line # inches diameter
W.W. Wingwall

DATE	_____
SURVEY PLOTTED BY	_____
ORIGINAL PLAN	_____
DESIGNED BY	_____
TRACED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NOTE BOOK	_____
APP. 10/1/04	_____
db-4/di/usa2/ksq/si/linha_sep/	_____

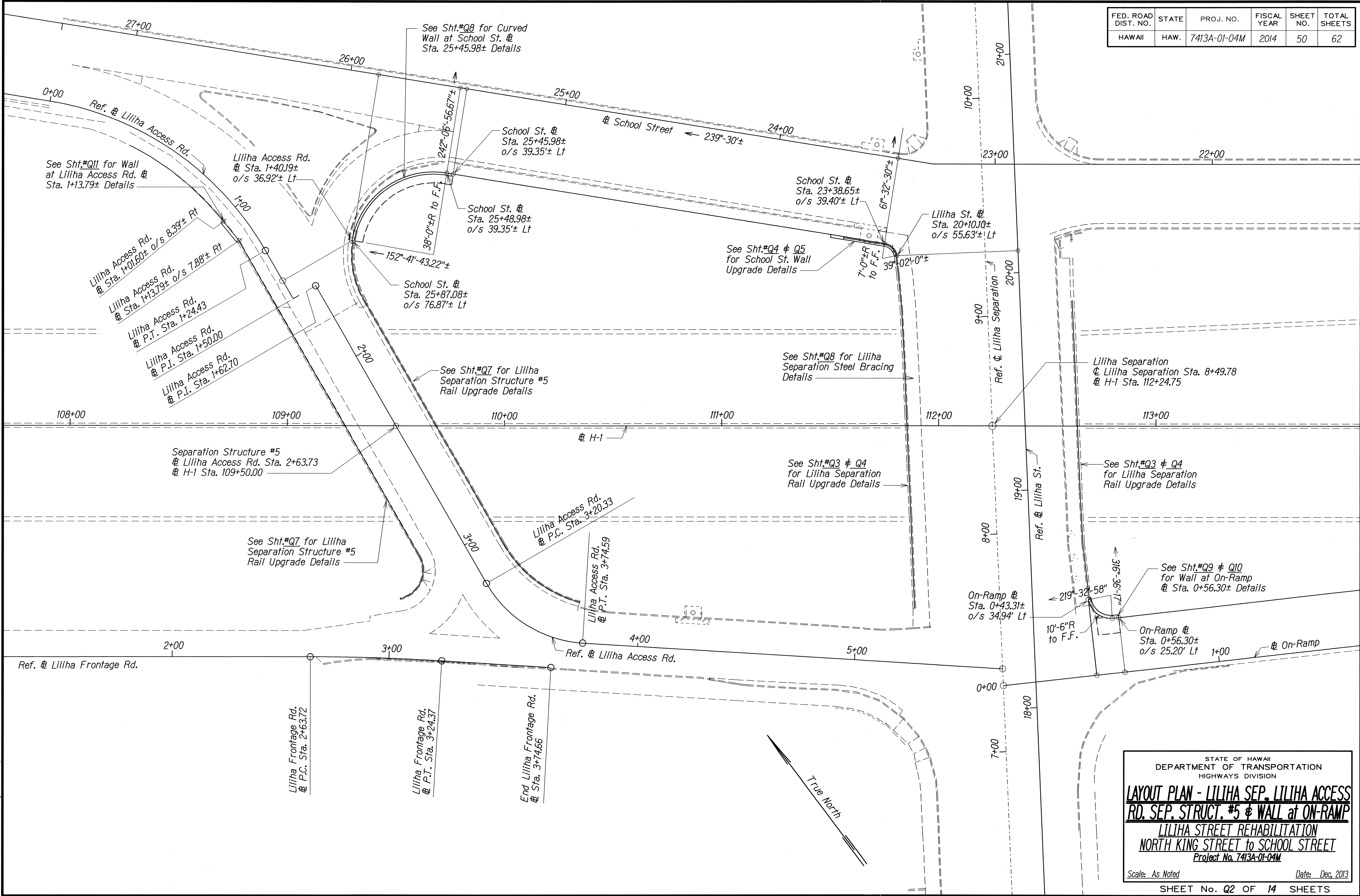
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES, SYMBOLS and
ABBREVIATIONS

LILIHA STREET REHABILITATION
NORTH KING STREET to SCHOOL STREET
Project No. 7413A-01-04M

Scale: As Noted Date: Dec, 2013

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ORIGINAL PLAN	DATE
DESIGNED BY	
DRAWN BY	
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APPROVED BY	

STATE OF HAWAII
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LAYOUT PLAN - LILIHA SEP. LILIHA ACCESS RD. SEP. STRUCT. #5 & WALL at ON-RAMP
LILIHA STREET REHABILITATION
NORTH KING STREET to SCHOOL STREET
Project No. 7413A-01-04M

Scale: As Noted
Date: Dec, 2013

This certifies that the dimensions and details shown on this sheet reflect the dimensions and details, and specifications as constructed in the field.

Paul Davis DATE: 7/27/20

PLAN

KOKO HEAD ELEVATION

LILIHA SEPARATION

EWA ELEVATION

True North

Ref. @ Liliha Street

Ref. @ Liliha Separation

Liliha Sep. Sta. 8+49.78

H-1 Fwy. Sta. 112+24.75

Liliha Separation Sta. 7+95.73

Ref. Liliha St. @ Sta. 18+75.86± o/s 53.75± Lt, end exist. alum. rail

Ref. Liliha St. @ Sta. 20+10.10± o/s 55.63± Lt

School St. @ Sta. 23+38.65± o/s 39.40± Lt

Ref. approx. exist. SDMH

Ref. F.F. of wall

Ref. exist. chain link fence. See HWY plans

8'-6 1/2"± (along F.F. wall)

6'-0"±

25'-0"±

Thrie Beam pay limits

Thrie Bm. 3'-1 1/2"± 12'-6"± 1'-6 3/4"± 6'-3"±

See Sht. #Q4 for School Street Wall Upgrade Details

See Sht. #Q12, Type "S" Endpost Details

Remove 1'-6"lg. portion of exist. conc. endpost

162'-0"± Limit of removal of exist. alum rail'g, posts & 1'-6"lg. portion of exist. conc. endpost, New Metal Pedestrian Rail Upgrade on Built-Up exist. conc. rail

27'-9"±

112'-1 1/2"±

23'-9 1/2"±

Remove 1'-6"lg. portion of exist. conc. endpost

Top of exist. conc. railing (to remain)

Exist. alum. posts

Exist. alum. railing

To School St. ⇐

Exist. Abut. No. 1

Exist. pier

Exist. Abut. No. 2

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

DATE

REVISION

6-6-16

Revise limits of new metal pedestrian rail upgrade on built-up exist. conc. rail

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

LILIHA SEPARATION PLAN & ELEVATIONS.

RAIL UPGRADE and UTILITY TROUGH BRACING

LILIHA STREET REHABILITATION

NORTH KING STREET to SCHOOL STREET

Project No. 7413A-01-04M

Scale: As Noted

Date: Dec. 2013

SHEET No. Q3 OF 14 SHEETS

6-6-16 	Revise limits of new metal pedestrian rail upgrade on built-up exist. conc. rail
DATE	REVISION

STATE OF HAWAII
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LILIHA SEPARATION PLAN & ELEVATIONS,
RAIL UPGRADE and UTILITY TROUGH BRACING
LILIHA STREET REHABILITATION
NORTH KING STREET to SCHOOL STREET
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SHEET No. Q3 OF 14 SHEETS

C.O. 51

6'-0" max. 6'-0" max. 6" 1'-0" 5'-0" 25'-0" Guardrail Type 3 Thrie Beam Pay Limits 4-spc. @ 1'-6 3/4" = 6'-3" 4-spcs. @ 3'-1 1/2" = 12'-6" 6'-3" Balance, See Hwy Plans

New pedestrian rail. * See details on Sht. #Q6

Fin. Grd.

3'-6" 1'-3" 2'-3" 1'-10" 9 1/4" 2'-8 3/4" 3'-6" 7 1/4" 1'-10"

Thrie Bm.

4'-0" x 4'-0" x 4'-0" Conc. Ftg. 14'-8 3/8" Conc. Curb, see Sht. #Q12 & Q13 for details

Drilled Shaft

Fin. Grd.

*New Pedestrian Rails to follow concrete wall curves

CONCRETE ENDPOST ELEVATION
Scale: 3/4" = 1'-0"

Scale: $\frac{3}{4}" = 1'-0"$



Scale: $\frac{3}{4}'' = 1'-0''$



Scale: $\frac{3}{4}" = 1'-0"$



Scale: $\frac{3}{4}'' = 1'-0''$



Scale: $\frac{3}{4}'' = 1'-0''$

Scale: $\frac{3}{4}" = 1'-0"$

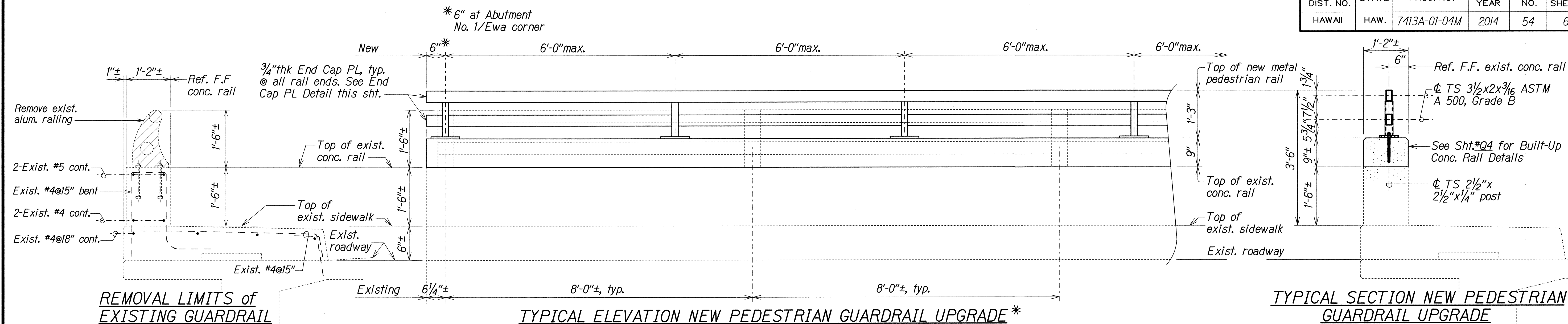
STATE OF HAWAII
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CONCRETE ENDPPOST DETAILS at
SCHOOL STREET WALL UPGRADE
LILIHA STREET REHABILITATION
NORTH KING STREET to SCHOOL STREET
Project No. 7413A-01-04M

Scale: As Noted Date: Dec, 2013

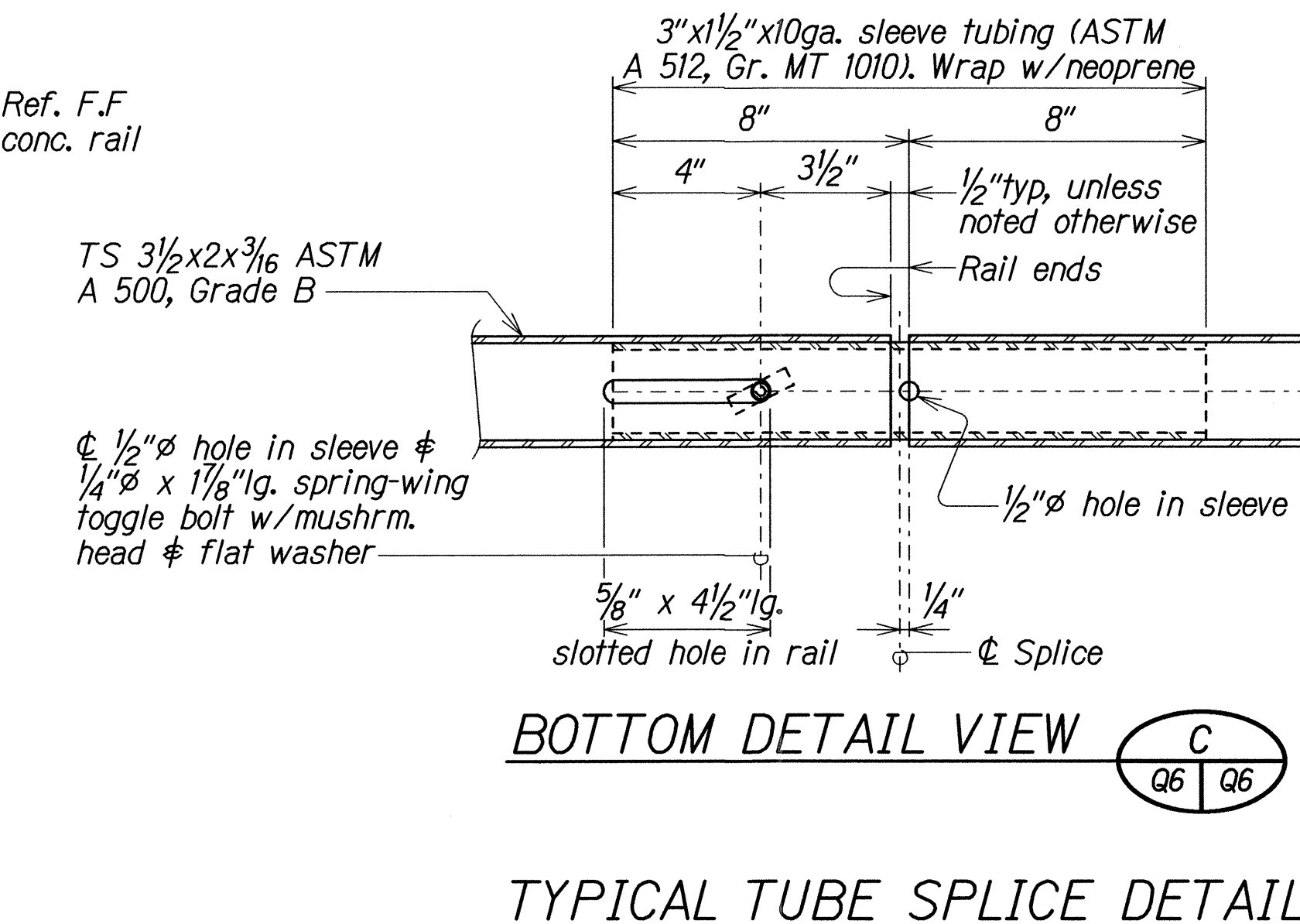
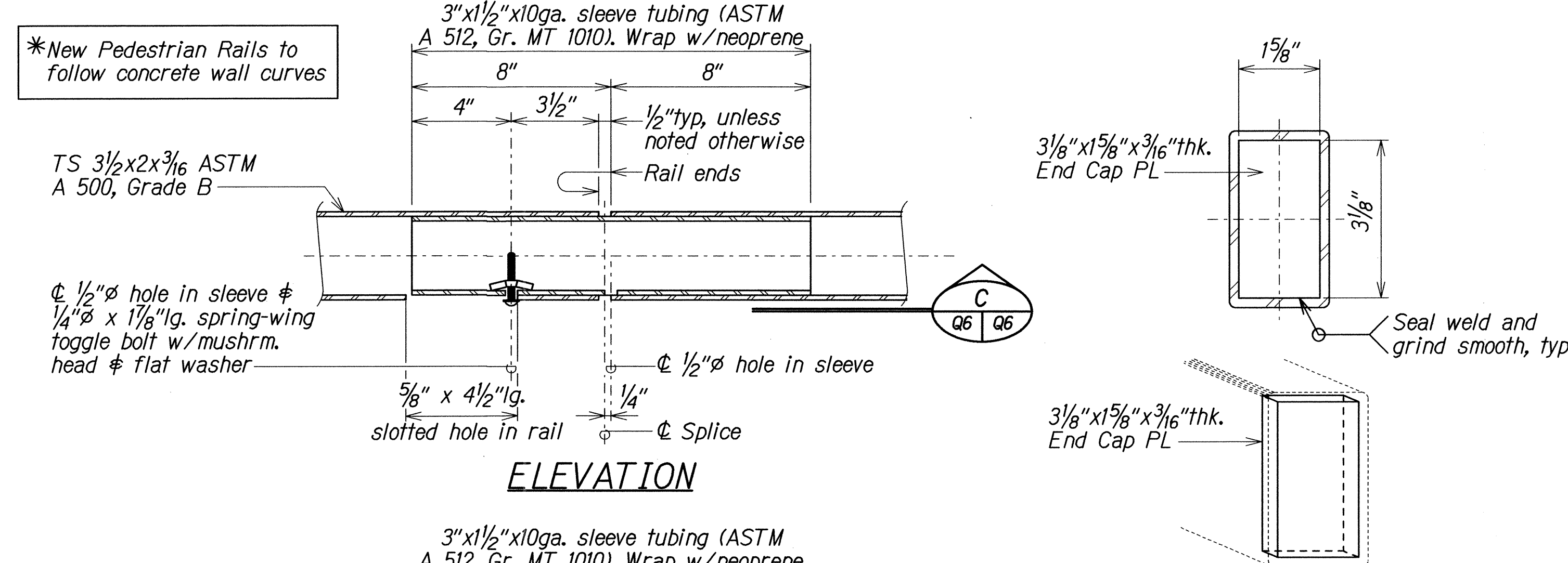
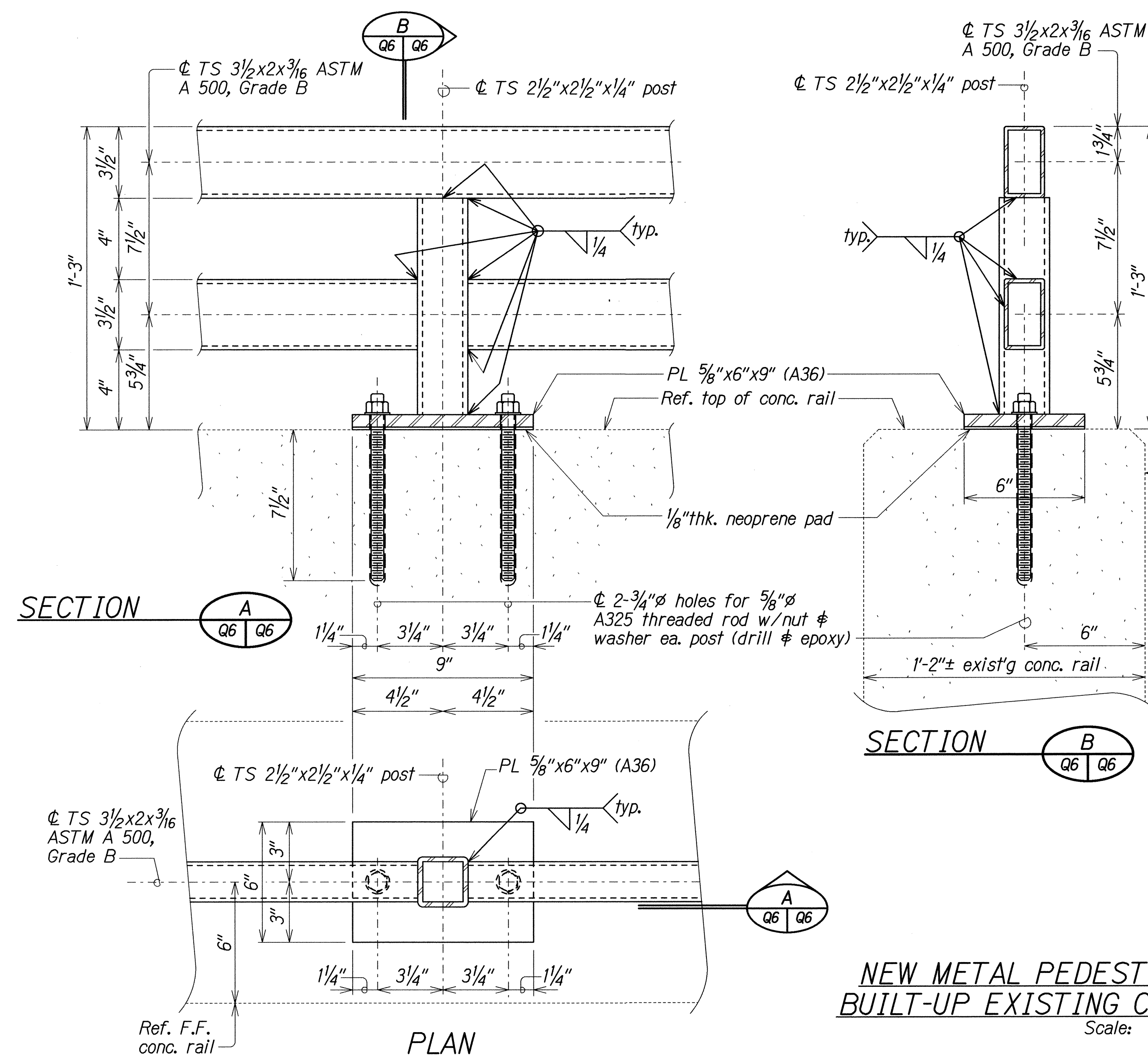
SHEET No. **Q5** OF **14** SHEETS

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REMOVAL LIMITS of EXISTING GUARDRAIL

TYPICAL SECTION NEW PEDESTRIAN GUARDRAIL UPGRADE



NEW METAL PEDESTRIAN RAIL UPGRADE on BUILT-UP EXISTING CONCRETE RAIL DETAILS
Scale: 3" = 1'-0"

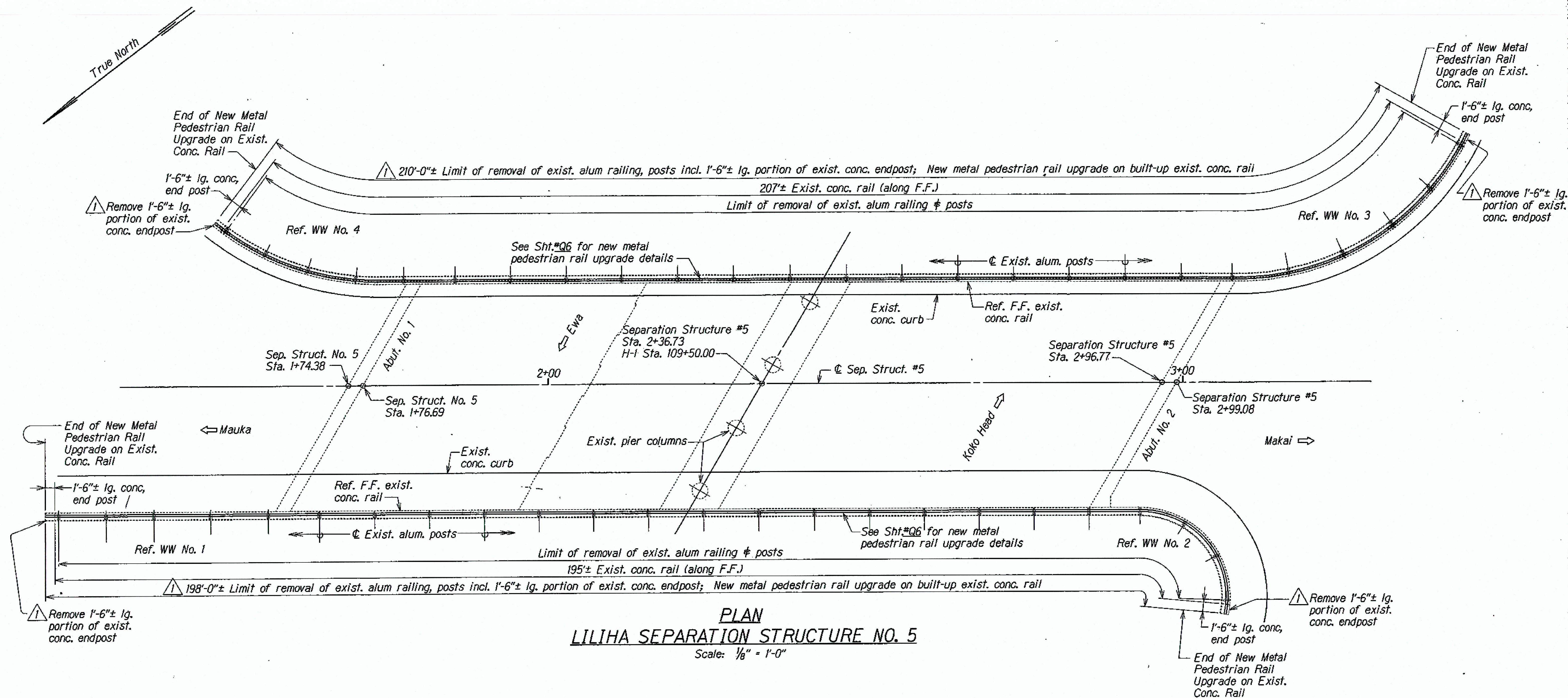
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NEW METAL PEDESTRIAN RAIL UPGRADE on BUILT-UP EXISTING CONCRETE RAIL DETAILS
LILIHA STREET REHABILITATION
NORTH KING STREET to SCHOOL STREET
Project No. 7413A-01-04M

Scale: As Noted Date: Dec, 2013

SHEET No. Q6 OF 14 SHEETS

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HAWAII	HAW.	7413A-01-04M	2014	C.O.55	62



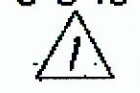
PLAN
LILIHA SEPARATION STRUCTURE NO. 5
 Scale: 1/8" = 1'-0"

AS-BUILT DRAWINGS

This certifies that the dimensions and details shown on this sheet reflect the dimensions and details, and specifications as constructed in the field.

KAIKOR CONSTRUCTION CO., INC.

[Signature] **DATE:** 7/27/20

6-8-16  Drawing has been altered to clarify removal of 1'-6"± lg. portion of existing conc. endpost

DATE **REVISION**

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

LILIHA SEPARATION STRUCTURE NO. 5 PLAN
LILIHA STREET REHABILITATION
NORTH KING STREET TO SCHOOL STREET
 Project No. 7413A-01-04M

Scale: As Noted Date: Dec. 2013

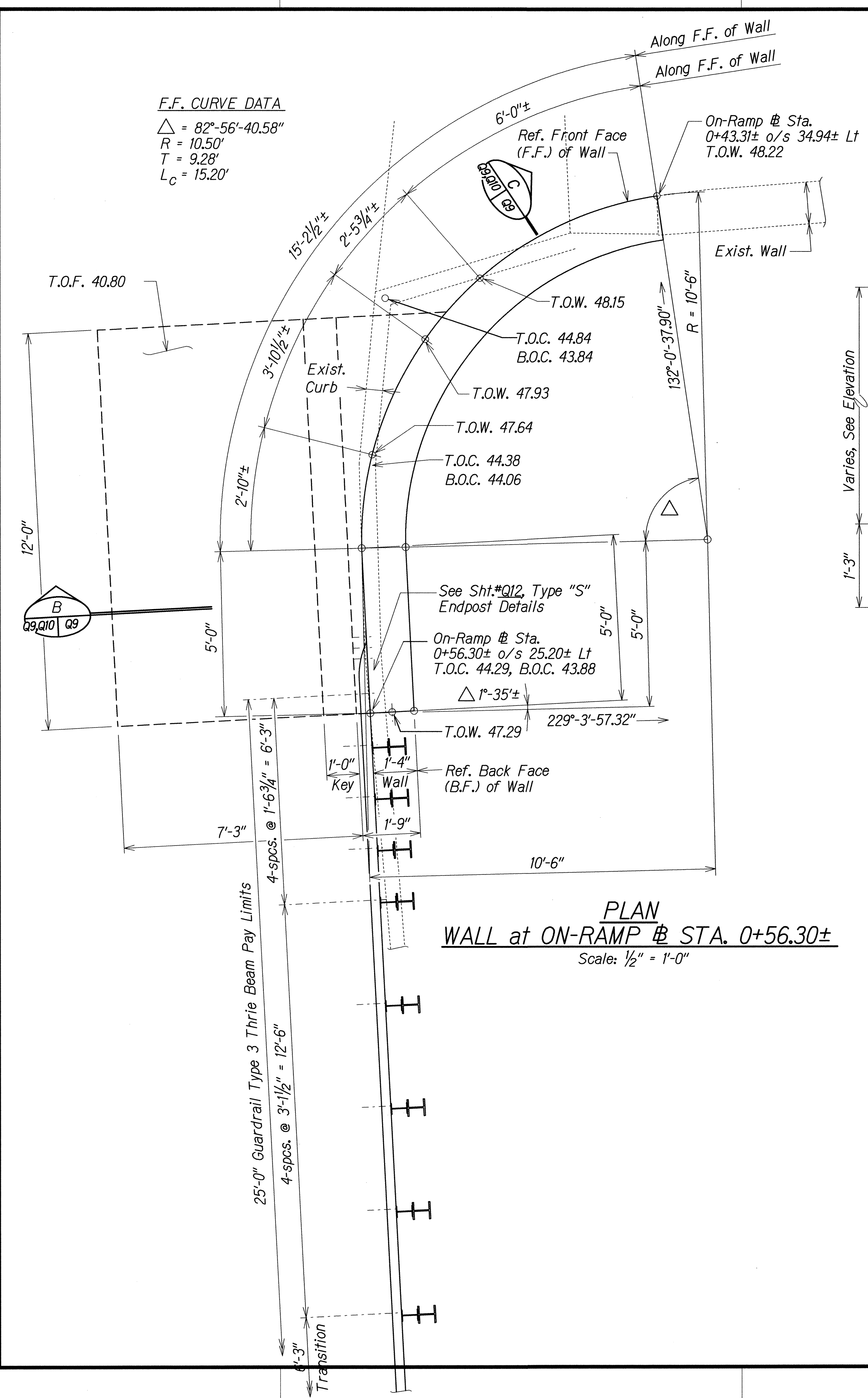
SHEET No. 07 OF 14 SHEETS

C.O.55

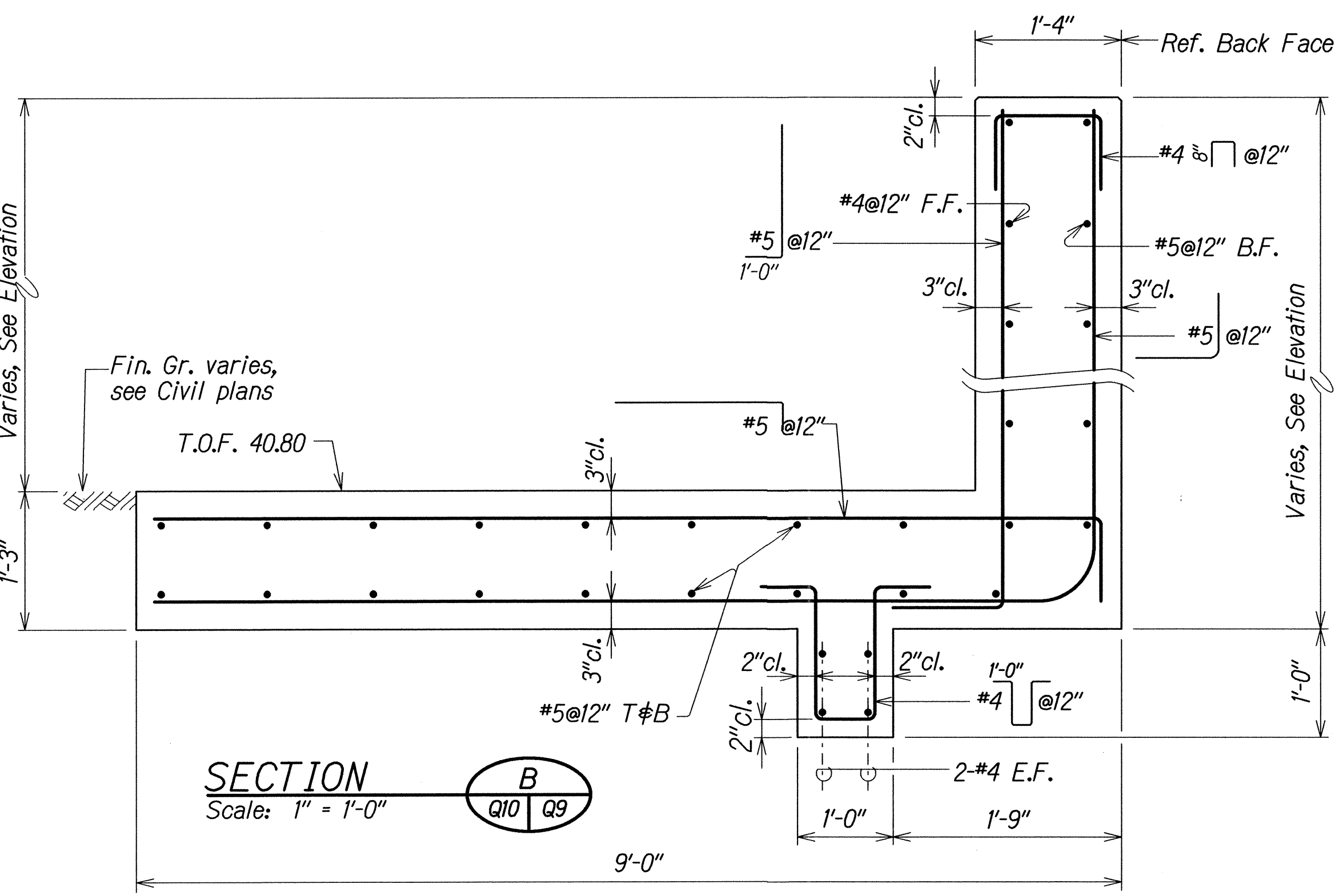
ORIGINAL PLAN	DATE
DESIGNED BY	
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITY BY	
REVISION BY	

ch4/rt/ust/2/isp/st/llhha_sep/

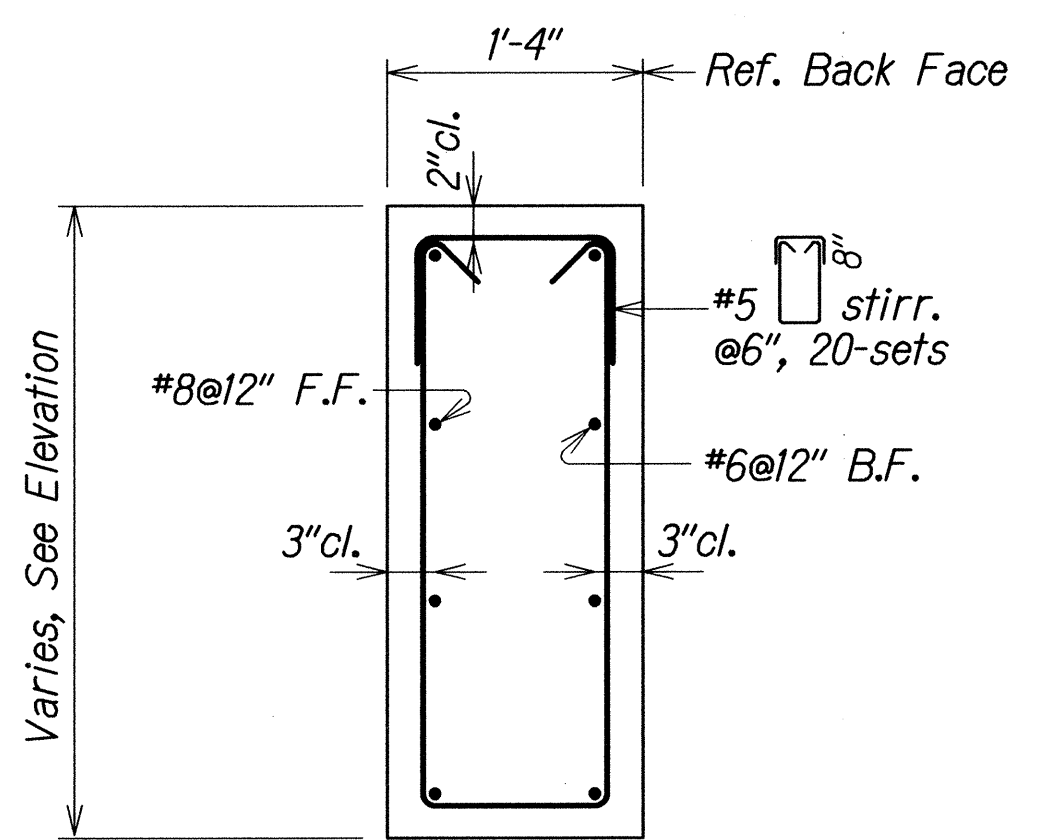
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7413A-01-04M	2014	57	62



PLAN
WALL at ON-RAMP # STA. 0+56.30±
 Scale: 1/2" = 1'-0"



SECTION
 Scale: 1" = 1'-0"



SECTION
 Scale: 1" = 1'-0"

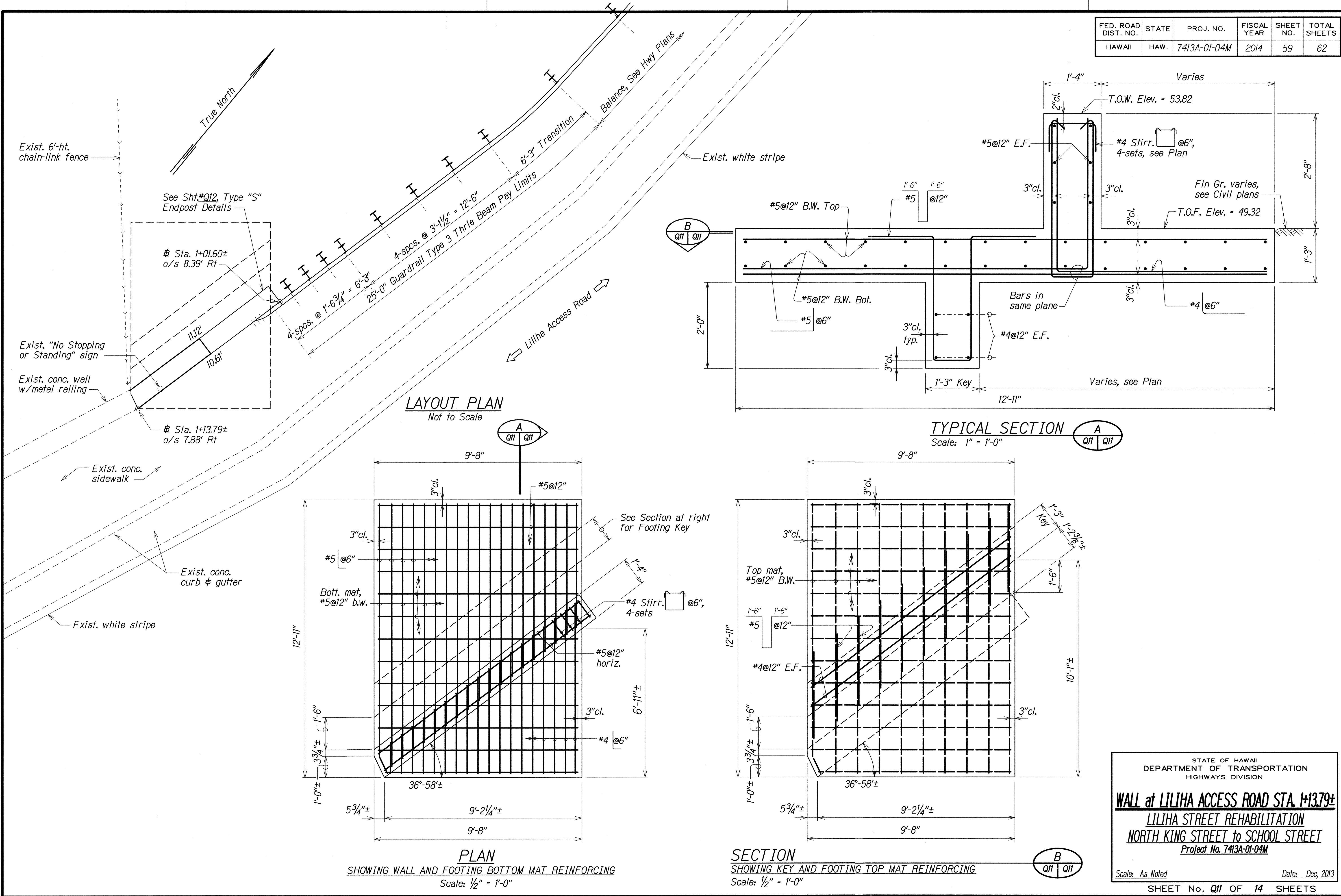
ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALL at ON-RAMP # STA. 0+56.30±
LILIHA STREET REHABILITATION
NORTH KING STREET to SCHOOL STREET
Project No. 7413A-01-04M

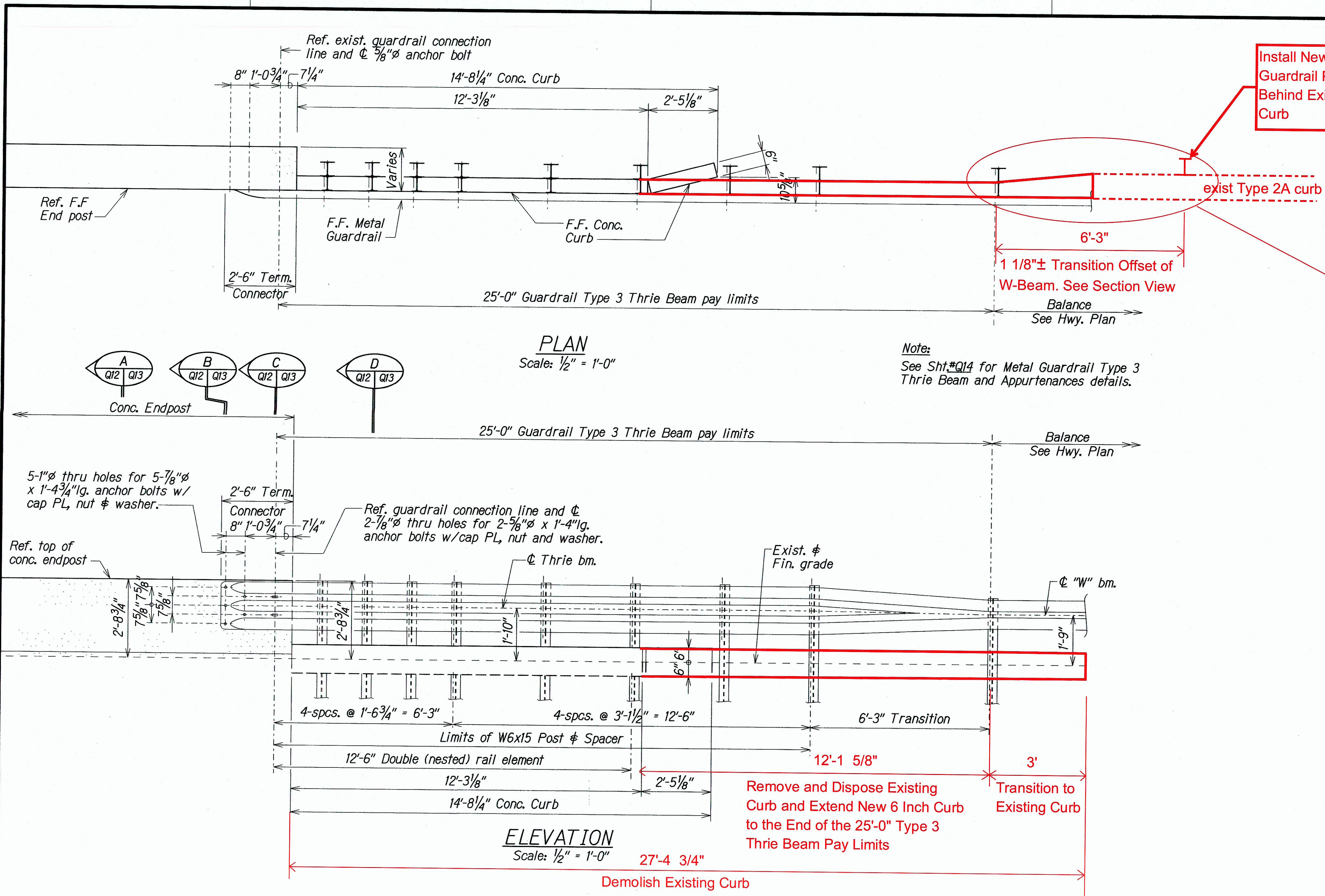
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Date: Dec, 2013

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7413A-01-04M	2014	59	62



ORIGINAL PLAN	DATE
DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
APPROVED BY	
DATE	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7413A-01-04M	2014	60	62



TYPE "S" ENDPPOST PLAN and ELEVATION

DATE	10/9/20
DESIGNED BY	JK
CHECKED BY	JK
IN CHARGE	JK
DATE	10/9/20

AS-BUILT DRAWINGS

This certifies that the dimensions and details shown on this sheet reflect the dimensions and details, and specifications as constructed in the field.

KAIKOR CONSTRUCTION CO., INC.

DATE: 10/9/20

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

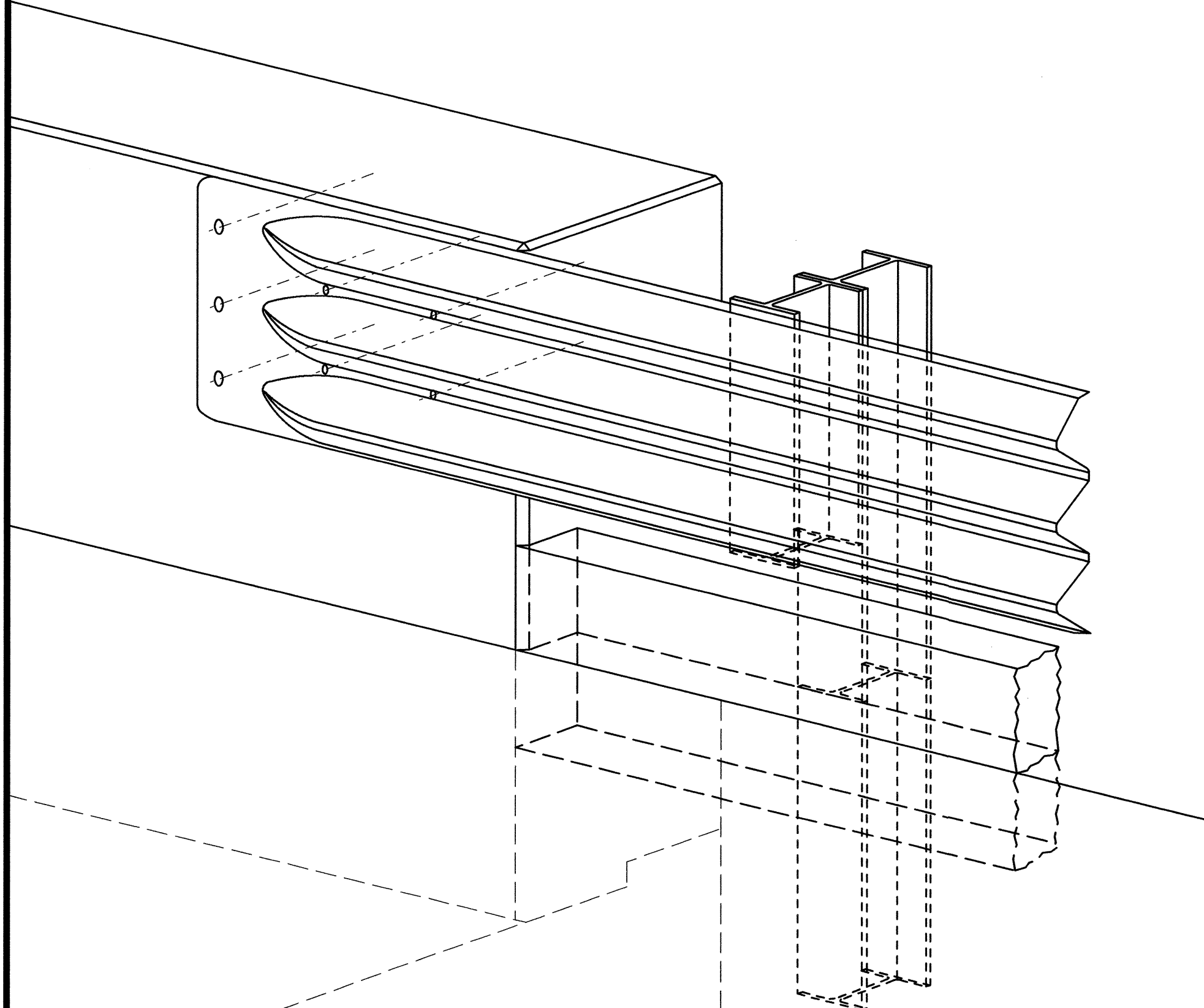
TYPE "S" ENDPPOST PLAN & ELEVATION
LILIHA STREET REHABILITATION
NORTH KING STREET to SCHOOL STREET
Project No. 7413A-01-04M

Scale: As Noted Date: Dec. 2013

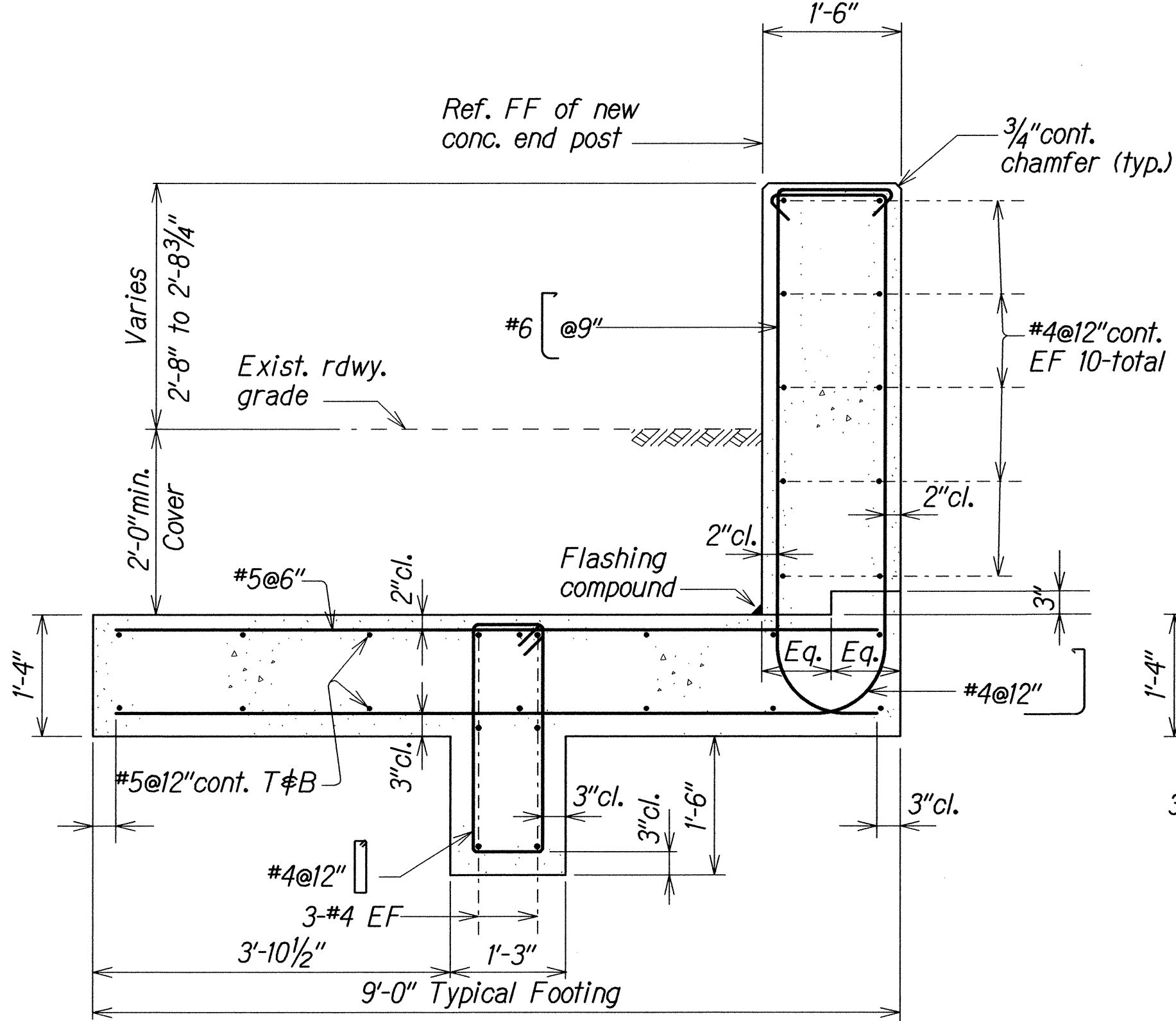
SHEET No. Q12 OF 14 SHEETS

"AS-BUILT"

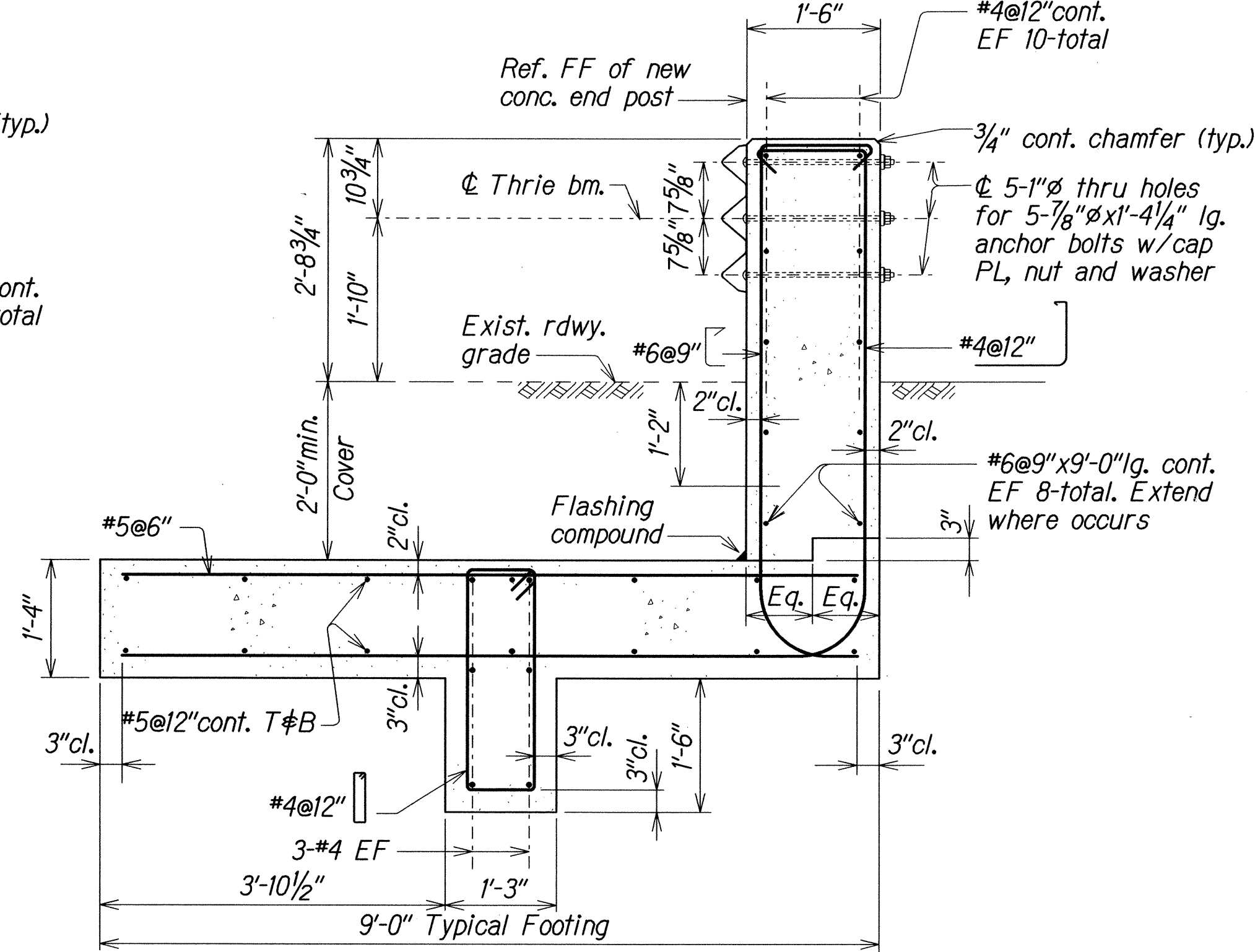
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7413A-01-04M	2014	61	62



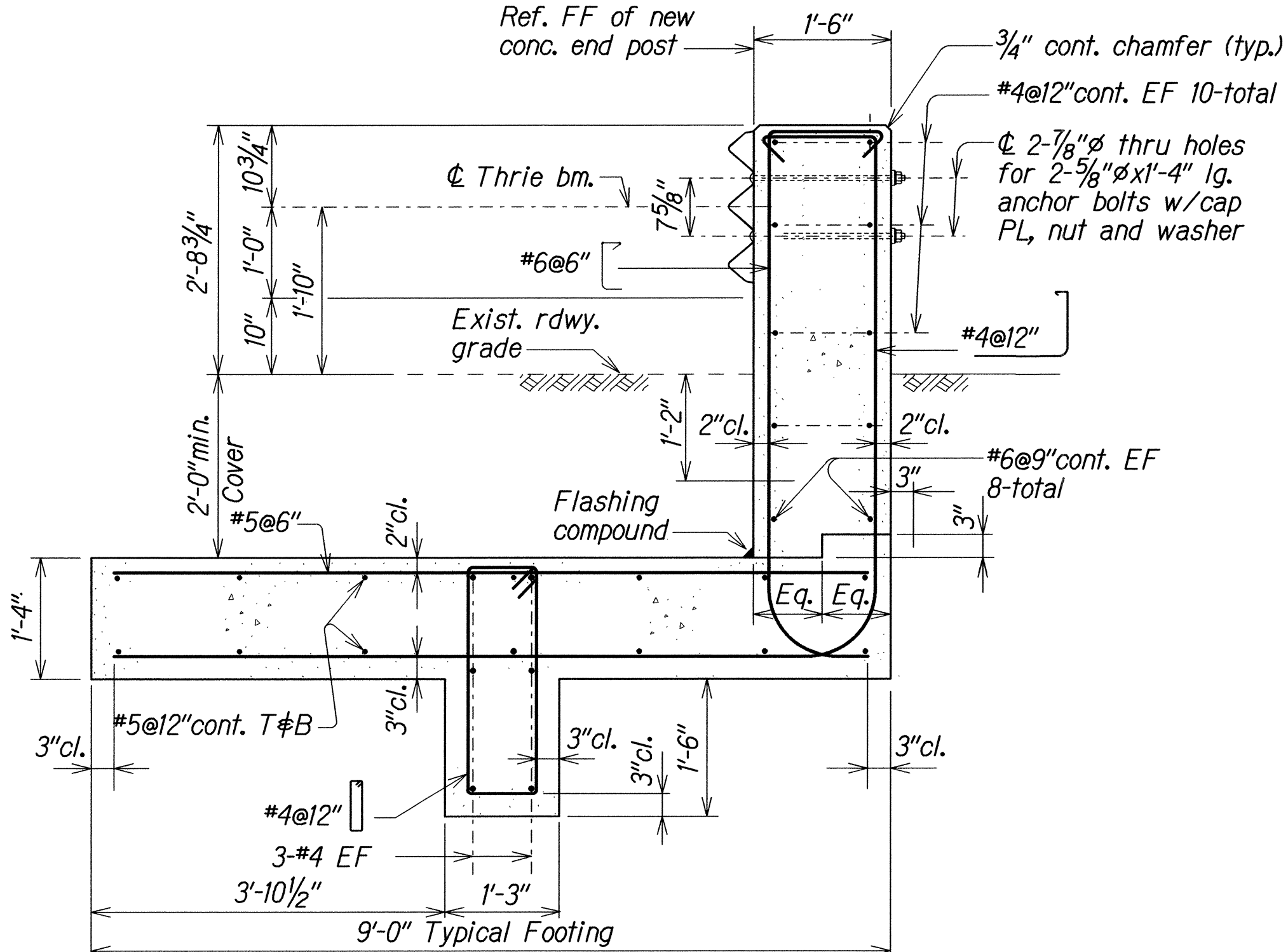
PARTIAL ISOMETRIC VIEW -
TYPE "S" ENDPOST
Not to Scale



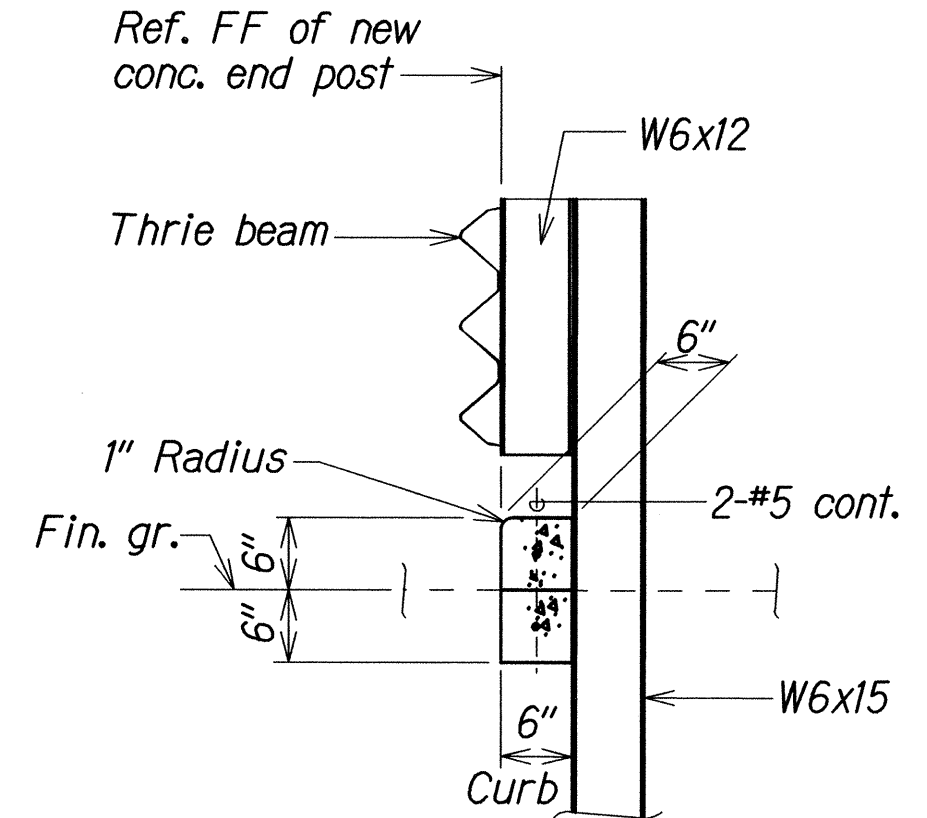
SECTION A
 Scale: $\frac{3}{4}" = 1'-0"$ Q12 Q13



SECTION 
Scale: $\frac{3}{4}'' = 1'-0''$



SECTION C
 Scale: $\frac{3}{4}" = 1'-0"$ Q12 | Q13



SECTION D
 Scale: $\frac{3}{4}" = 1'-0"$ Q12 | Q13

STATE OF HAWAII
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TYPE "S" ENDPOST PARTIAL ISOMETRIC
VIEW and TYPICAL SECTIONS
LILIHA STREET REHABILITATION
NORTH KING STREET to SCHOOL STREET
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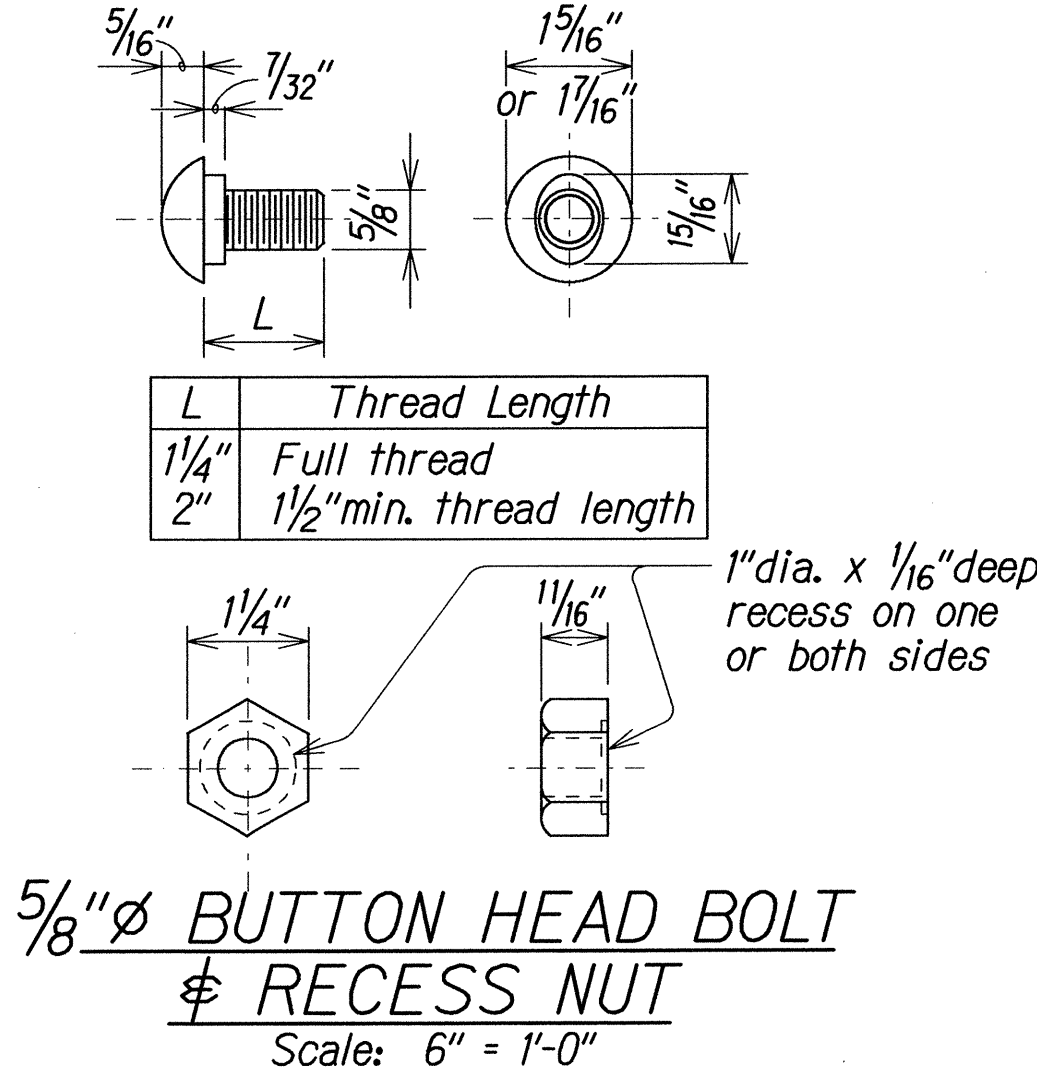
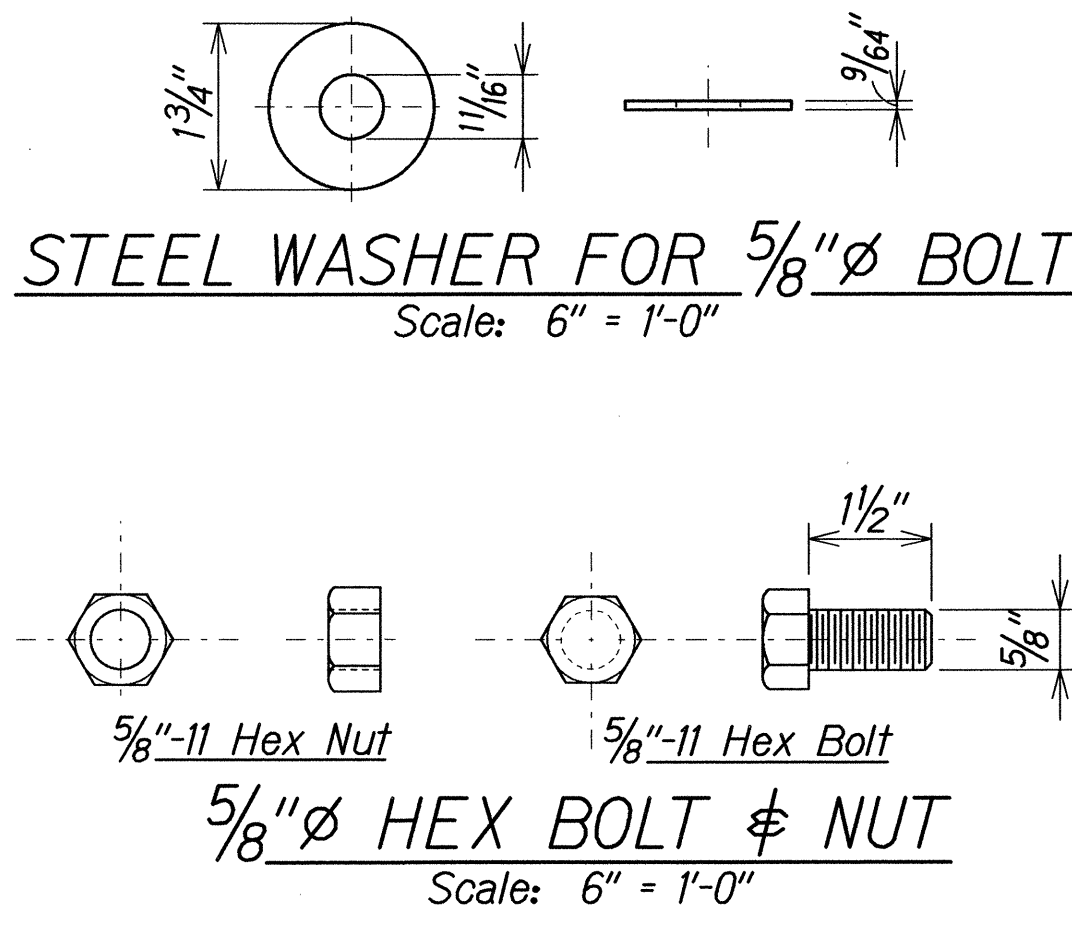
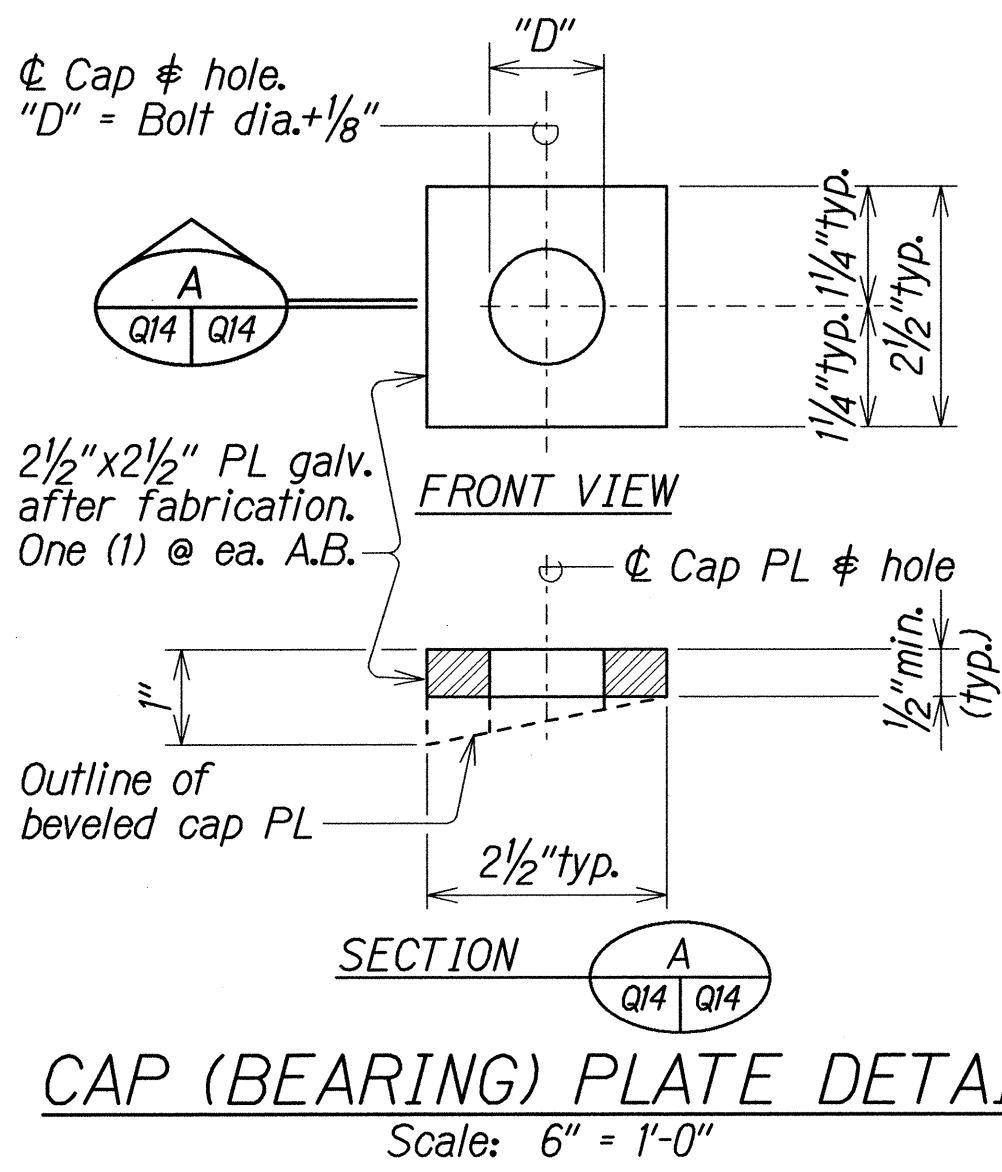
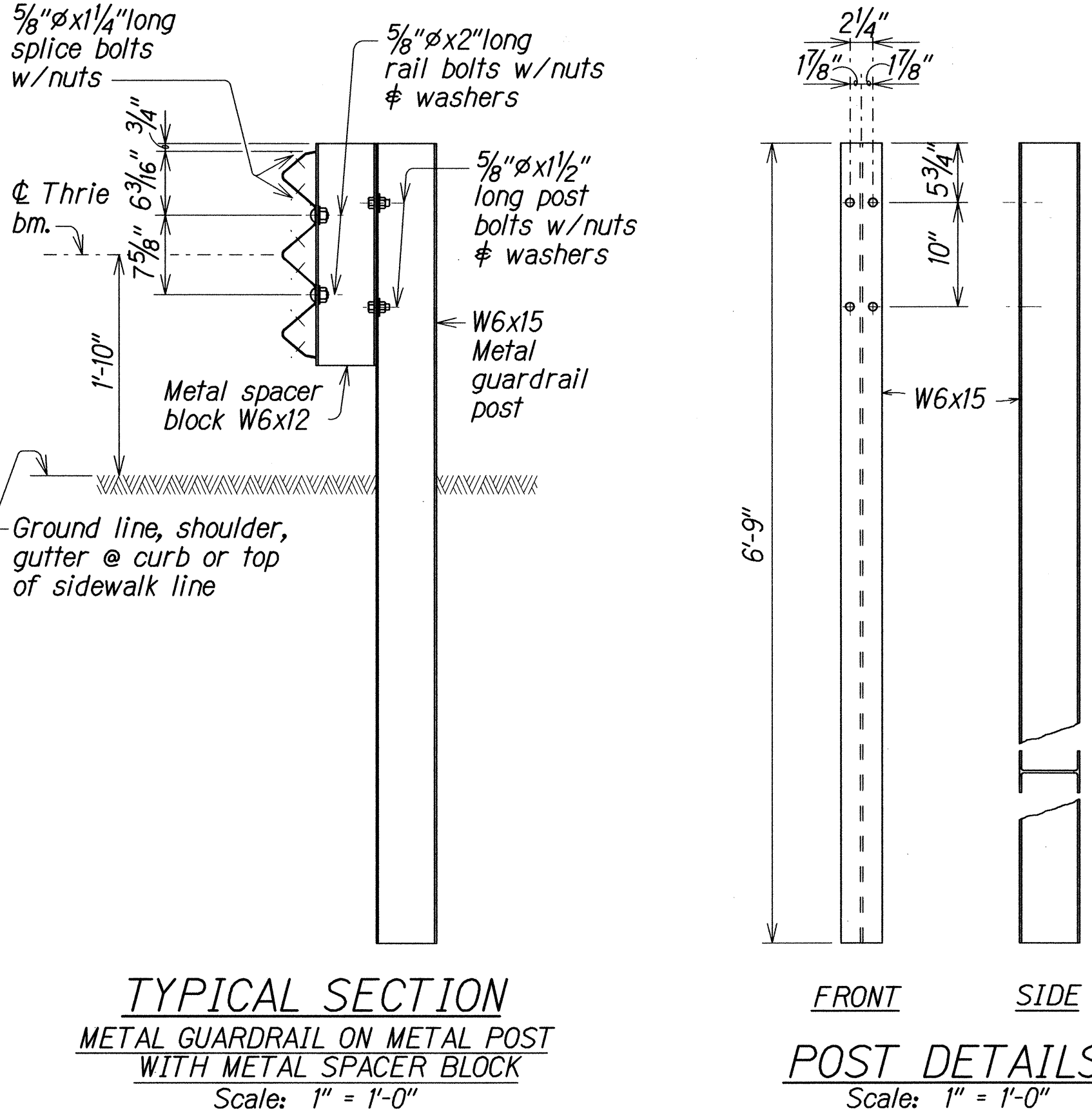
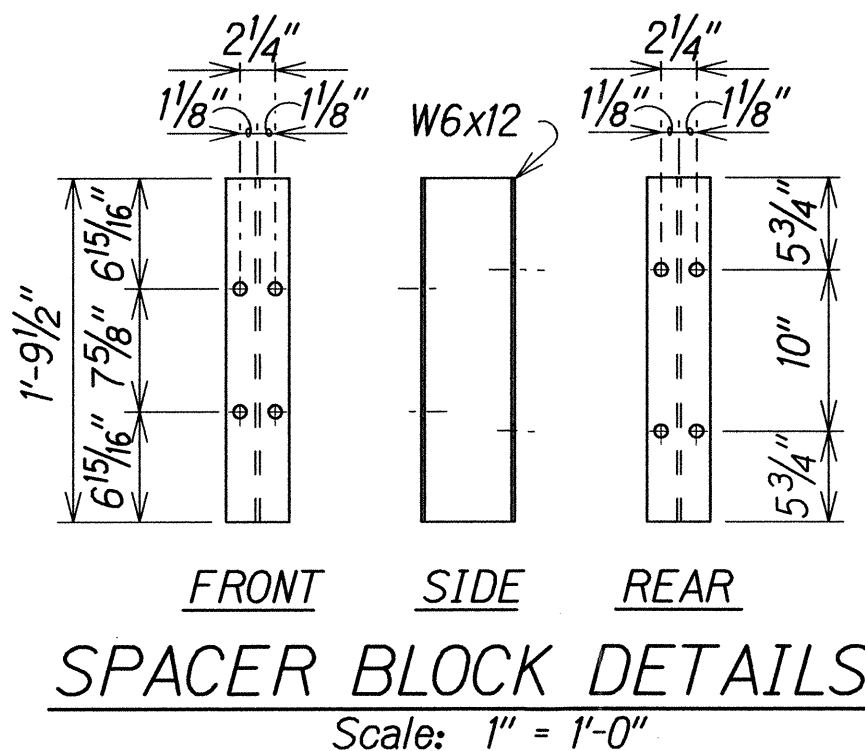
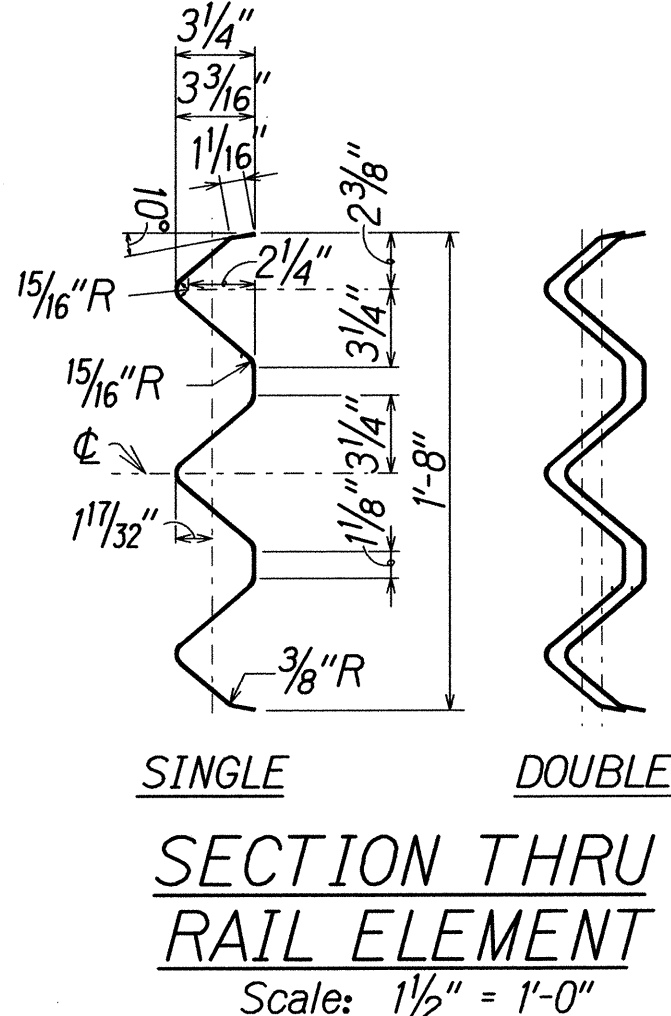
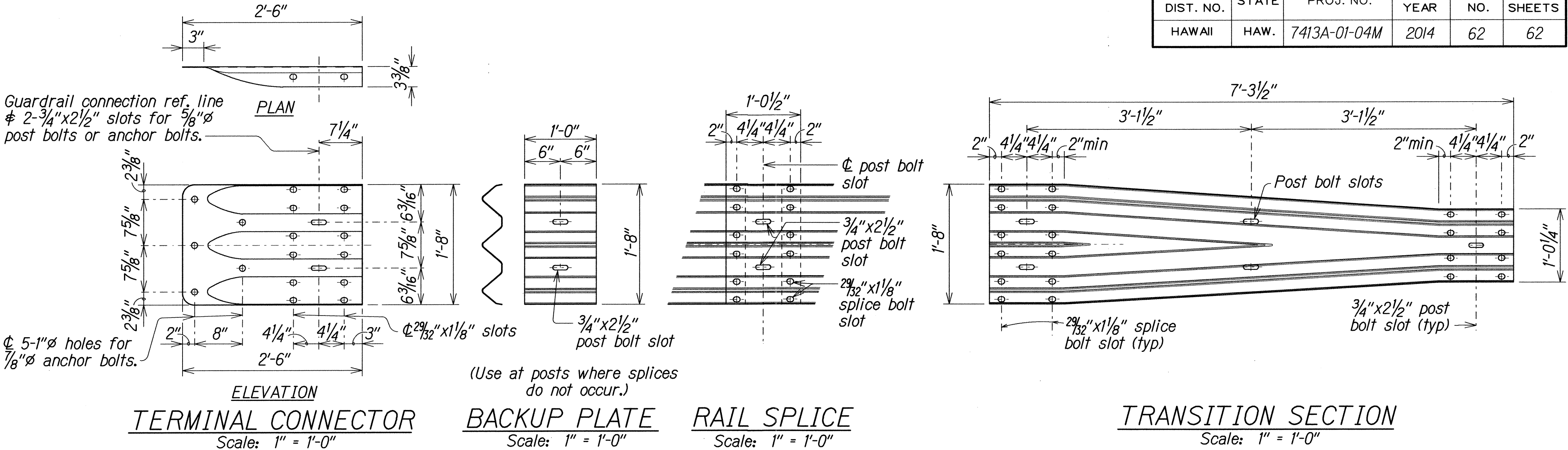
Scale: As Noted Date: Dec, 2013

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NOTES:

- The work necessary to connect guardrail to concrete end post shall include all labor, materials, tools, equipment and incidentals necessary to complete the work and will not be paid for separately.
- Lap terminal connector and rail element in direction of traffic to prevent snagging.
- All anchor bolts shall be high strength bolts conforming to the requirements of ASTM 325 and Standard Specification, Section 713.04.
- Anchor bolt length shall be such that a snug fit of the elements and full thread engagement plus 1/4" (max) is attained.
- "Terminal Connector", "Transition Section" and thrie beam shall be fabricated from 10gauge steel conforming to the requirements of AASHTO M 180, Type II, Class B.
- "Terminal Connector" and standard spacer, including all anchor bolts, cap PL, nuts and washers, shall be hot-dip galvanized after fabrication.
- Cap PL shall be fabricated from ASTM A 36.
- First 25'-0" of guardrail adjoining "Terminal Connector" shall be galvanized steel and supports spaced as shown on the detail drawings. This section of rail shall be placed on tangent to end post or parallel to roadway, unless conditions at site renders it impossible to do so. Flare point to be determined in field.
- Double (nest 1st panel) thrie beam elements at all end post connections, except on highways with one-way traffic pattern, use single thrie beam elements at end post on trailing end only.
- Where double (nested) beam occur, 12" "Back-up Plate" not required.
- Heads of through anchor bolts shall be placed on the traffic side of the rail.
- All steel shapes, rails and plates shall conform to ASTM A 36 specifications.



METAL GUARDRAIL TYPE 3 THRIE BEAM AND APPURTENANCES DETAILS

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

METAL GUARDRAIL TYPE 3 THRIE BEAM

and APPURTENANCES DETAILS

LILIHA STREET REHABILITATION

NORTH KING STREET to SCHOOL STREET

Project No. 7413A-01-04M

Scale: As Noted

Date: Dec, 2013

SHEET No. Q14 OF 14 SHEETS

62

LANDSCAPE NOTES:

1. Contractor shall field verify all plant quantities and dimensions prior to installation. Quantities shown on Plant List are for reference only. Verify actual quantities shown on plans. If there is a discrepancy, the planting plans shall take precedence.
2. Contractor shall be responsible for locating and protecting existing utilities.
3. Do not plant until ground has been prepared and free of stones greater than 1/2" diameter, site is neat, orderly, and the Engineer accepts site for planting.
4. Notify Engineer of any discrepancies in plant locations or insufficient plant quantities due to difference in plan and actual field conditions.

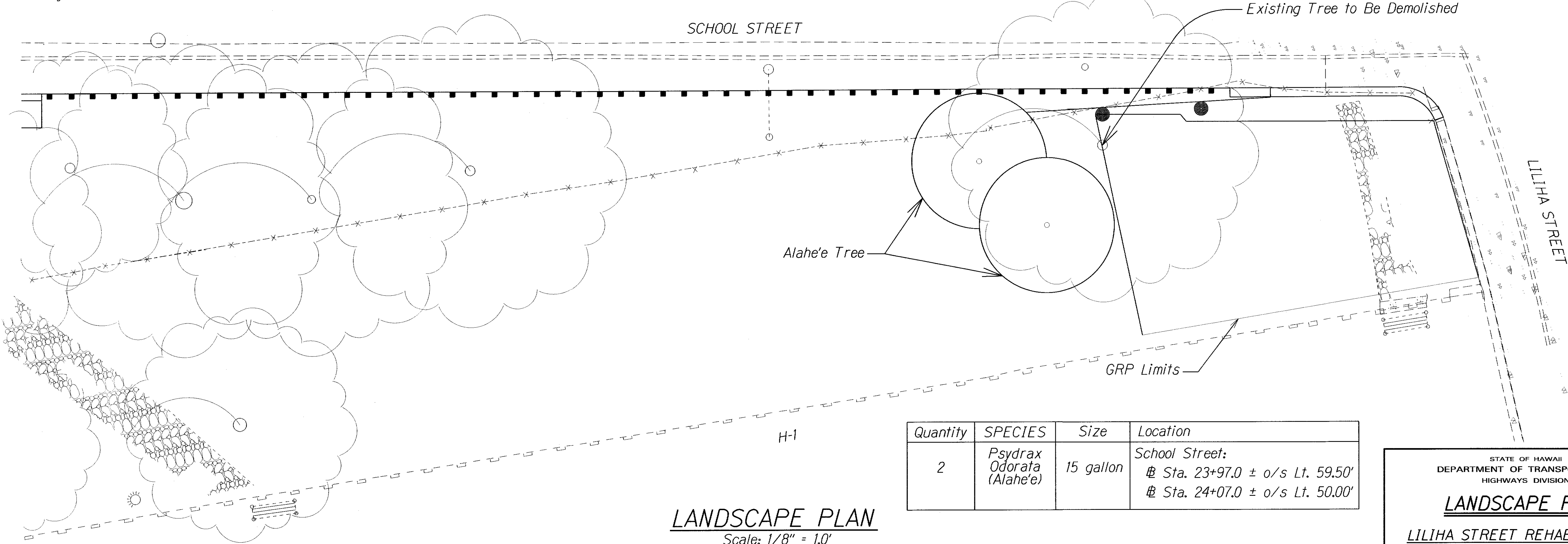
7. Contractor shall be solely responsible for the complete removal and damages resulting from the introduction of planting any plant species listed on the Hawaii Department Agriculture 'Noxious Rules' as defined in the Statute, Hawaii Administrative Rules 4:68:1 or the 'Federal Noxious Weed List' as defined in Title 7 of the Code of Federal Regulations, Parts 360 and 361.
8. All tree work must adhere to America National Standard Institute (or ANSI - A300- Tree Care Standards and ANSI - Z133 Safety Standards for Tree Work). Work shall be contracted to Arborists that has been cerified in good standings as an ISA Cerified Arborists for at least 5 years to assure that tree work is performed properly and trees are not damaged by practices such as topping, flush cuts, over-thinning or climbing with spikes, Contractor shall submit a copy of the ISA Arborist Certificate of Good Standing of 1 years to the Engineer a minimum of 7 days prior to tree pruning.

10. If trees other than those specifically designated for removal are damaged beyond survival conditions as determined by the Engineer, the Contractor shall remove such trees and replace the tree with a same species and size and maintain for the duration of construction or 12 months whichever is greater at no cost to the State.
11. The Contractor shall install a temporary irrigation system until completion of the planting period and acceptance by the Engineer. The Contractor shall be responsible for locating water source and determining an appropriate point of connection. The cost of water is to be considered as incidental to the project budget.
12. Guy wire, stakes, windbreakers, etc. shall be maintained and replaced by the contractor until the tree can stand on its own. The Contractor shall remove and dispose at the end of the plant establishment period after acceptance by the Engineer.

5. Notify Engineer 90 days prior to planting operations for approval of all plant material at place of growth. All plant material not approved by the engineer will be subject to rejection.
6. The Engineer will inspect plants at the place of growth before and after the delivery to the project, each tree shall be tagged by engineer with a consecutively numbered plastic tamper resistant and self-locking seal. Seals shall remain on trees and only be removed by the Engineer at the completion of the plant establishment period. Trees delivered to the project without the Engineer's seal will be rejected.

9. For the duration of construction within the drip line of trees to remain, there must be: no changes, alternations or disturbances to the grade by adding fill, excavating or scraping except as noted on plans; no storage of construction material or equipment; no stockpiling of any construction material or any excavated material no disposal of any liquids (e.g. concrete, sleuth, gas, oil, paint); no vehicular traffic, equipment or excessive pedestrian traffic; no attachment of any wires, ropes, lights, or any other such attachment other than those of protective nature to any tree to be preserved; and no cleaning of equipment or material under the canopy of any tree or group of trees to remain.

13. If existing overhead utilities are above the tree, adjust the two trees so that the power lines are 10.0' away from the center of the trunk. Trees must remain in a staggered pattern. If adjustments are to be made, then the adjustment should be made parallel to the roadway (not up or down the slope) and the trunks must be 10.0' from the newly installed GRP area.
14. Follow State DOT Standard Plans L-02 Tree Planting on Slope Detail.



LANDSCAPE PLAN
Scale: 1/8" = 1.0'

Quantity	SPECIES	Size	Location
2	Psydrax Odorata (Alahe'e)	15 gallon	School Street: # Sta. 23+97.0 ± o/s Lt. 59.50' # Sta. 24+07.0 ± o/s Lt. 50.00'

2/28/17	Added new sheet, removal of one tree and planting of two new trees.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPE PLAN

LILIHA STREET REHABILITATION
North King Street to School Street
Project No. 7413A-01-04M

Scale: 1/8" = 1.0' Date: April, 2014

SHEET No. 1 OF 1 SHEETS

LANDSCAPE NOTES:

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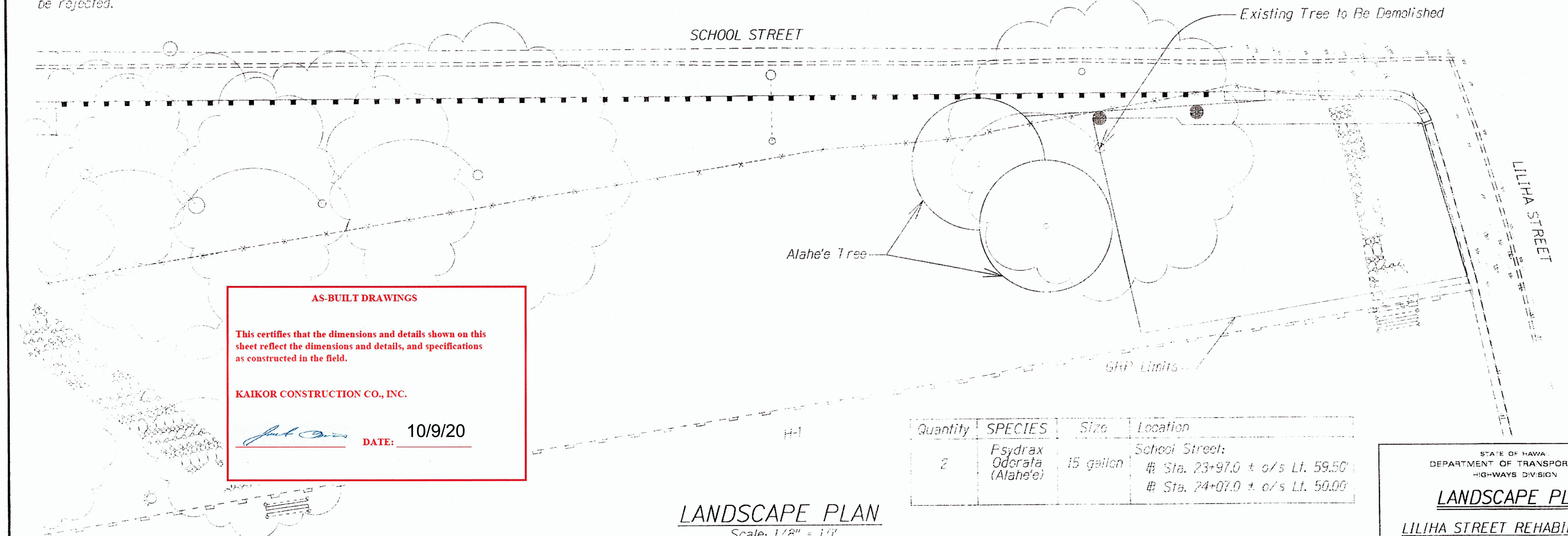
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- Follow State DOT Standard Plans L-02 Tree Planting on Slope Detail.



AS-BUILT DRAWINGS

This certifies that the dimensions and details shown on this sheet reflect the dimensions and details, and specifications as constructed in the field.

KAIKOR CONSTRUCTION CO., INC.

DATE: 10/9/20

LANDSCAPE PLAN

Scale: 1/8" = 1.0'

Quantity	SPECIES	Size	Location
2	Psydrax Oderafa (Alahe's)	15 gallon	School Street: # Sta. 23+97.0 ± o/s Lt. 59.50' # Sta. 24+07.0 ± o/s Lt. 50.00'

2/28/17 Added new sheet, removal of one tree and planting of two new trees.

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

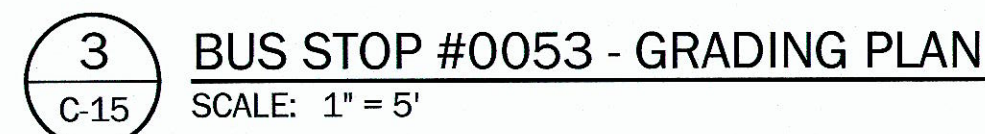
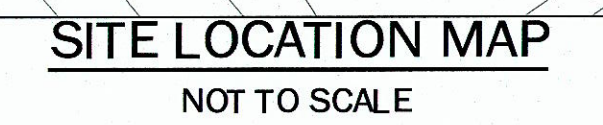
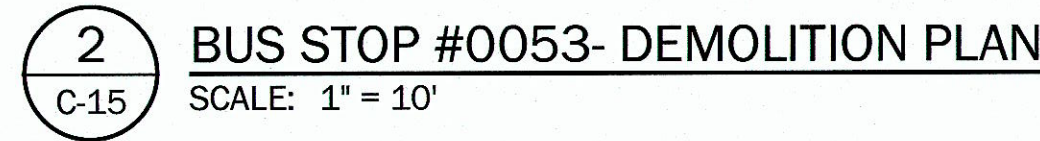
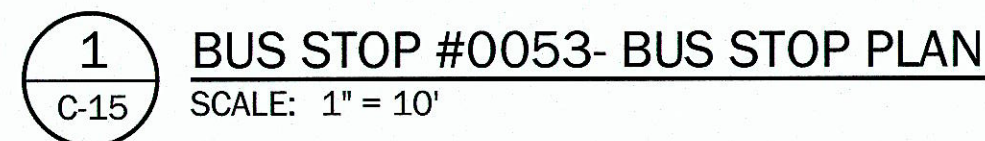
LANDSCAPE PLAN

LILIHA STREET REHABILITATION
North King Street to School Street
Project No. 7413A-01-04M

Scale: 1/8" = 1.0' Date: April, 2014

SHEET No. 1 OF 1 SHEETS

C.O. 62 S-2

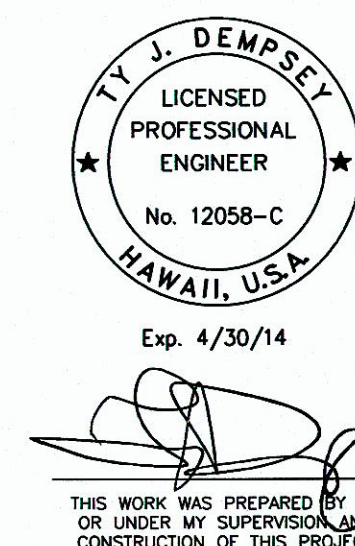


AS-BUILT DRAWINGS

This certifies that the dimensions and details shown on this sheet reflect the dimensions and details, and specifications as constructed in the field.

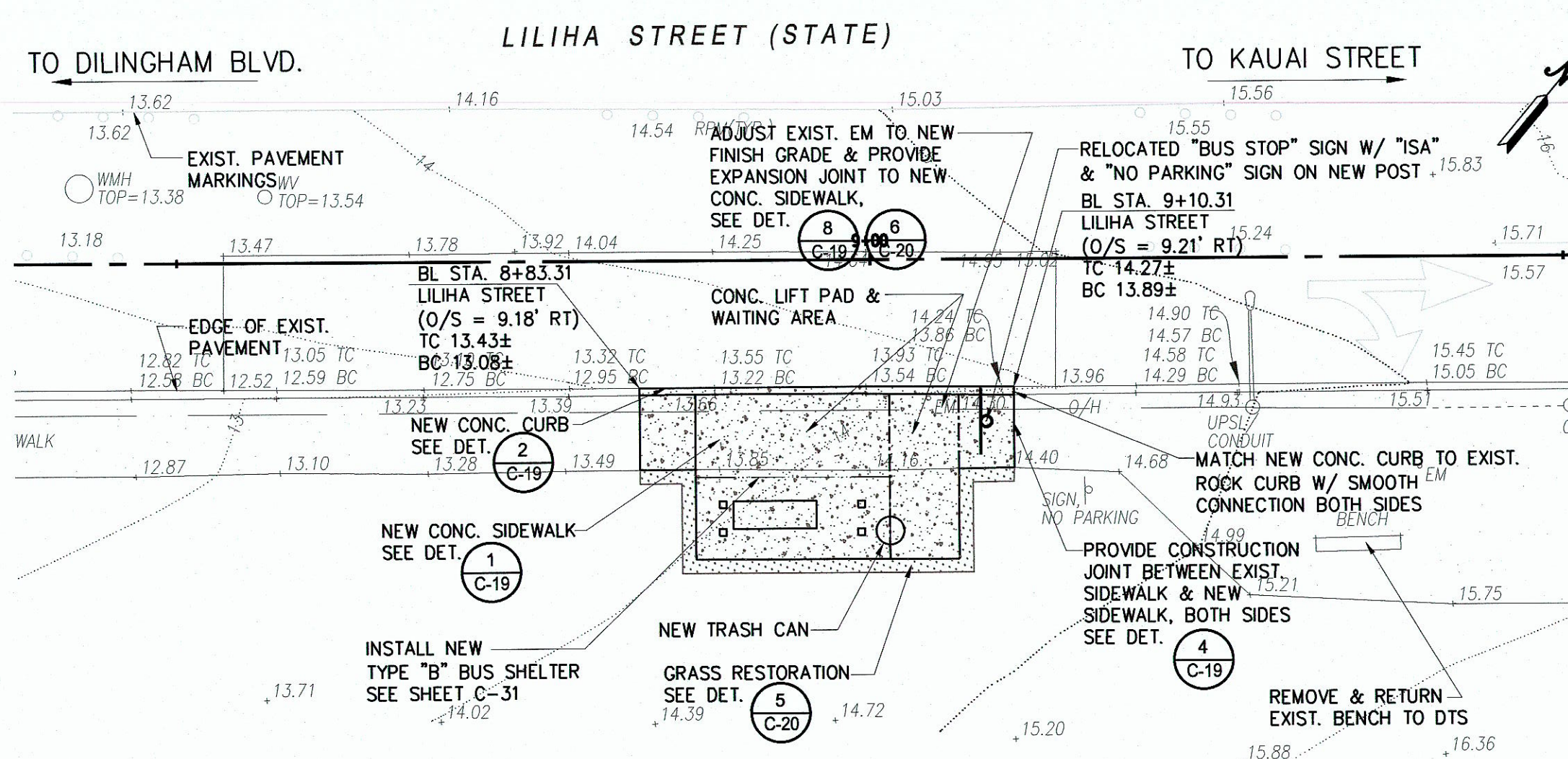
KAIKOR CONSTRUCTION CO., INC.

 **DATE:** 7/27/20

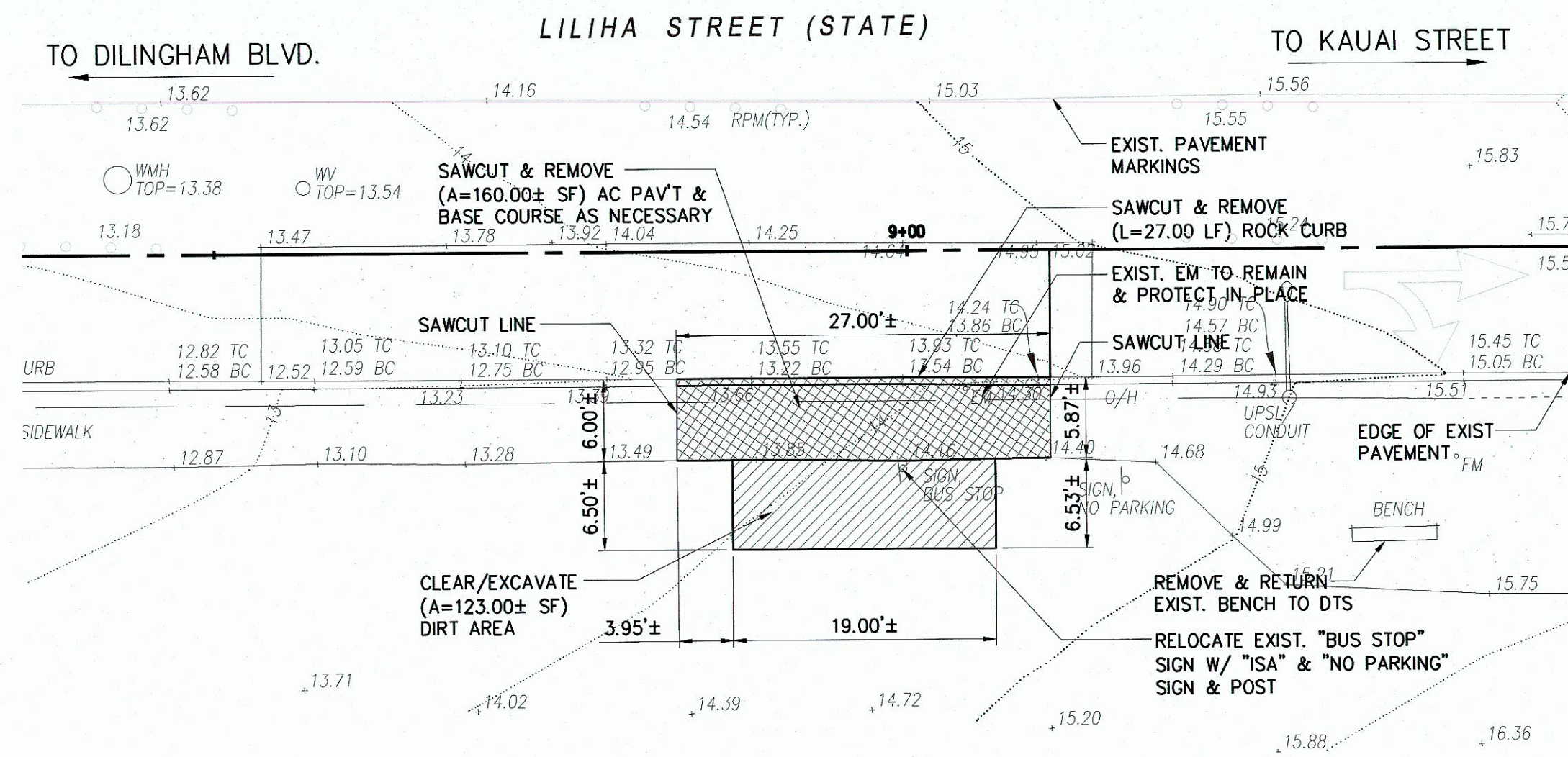


DEPARTMENT OF TRANSPORTATION SERVICES CITY AND COUNTY OF HONOLULU			
BUS STOP ADA ACCESSIBILITY IMPROVEMENTS PHASE VI (KALIHI TO MILILANI) HONOLULU, OAHU, HAWAII			
BUS STOP #0053 LILIHA ST. & KING ST. (STATE)			
DESIGN: RF DRAWN: GD CHECKED: EL/MY/ET DATE: 03/26/13	APPROVED: DIRECTOR, DEPARTMENT OF TRANSPORTATION SERVICES, DTS DATE (FOR WORK WITHIN THE CITY RIGHT OF WAY) ADMINISTRATOR, HIGHWAYS DIVISION, DOT DATE (FOR WORK WITHIN THE STATE RIGHT OF WAY)		SHEET No. C-15 OF 42 SHEETS
PROJECT NO. 3013.10	FILE	DRAW	FOLDER
			NUMBER

"AS-BUILT"



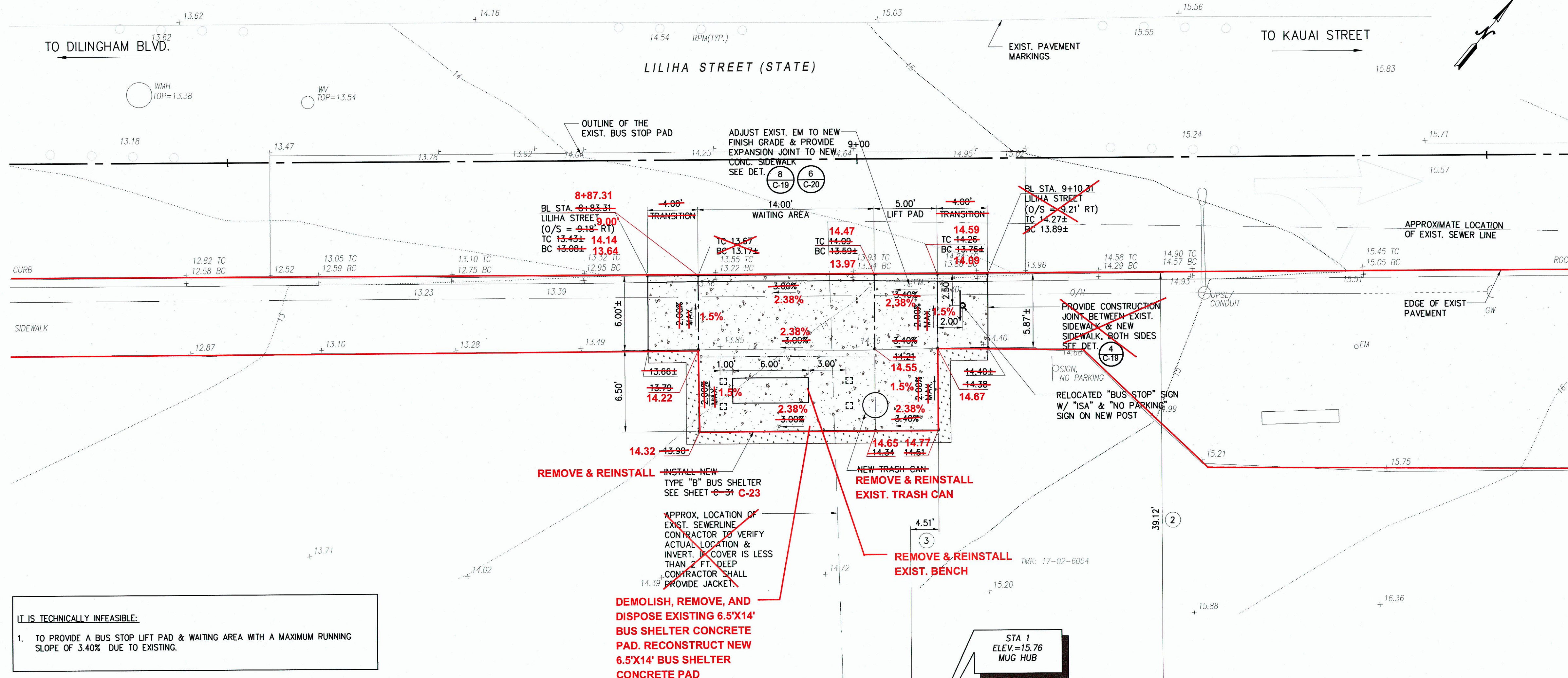
1 BUS STOP #0054 - BUS STOP PLAN
SCALE: 1" = 10'



2 BUS STOP #0054 - DEMOLITION PLAN
SCALE: 1" = 10'



SITE LOCATION MAP
NOT TO SCALE



3 BUS STOP #0054 - GRADING PLAN
SCALE: 1" = 5'

LEGEND:

	EXIST. SEWER LINE
	LIMITS OF WORK
	PROPERTY LINE
	BENCH TRAVERSE
	BUS STOP SHELTER OUTLINE
	CONC. LIFT PAD & WAITING AREA OUTLINE
	BENCHMARK
	BUS STOP SIGN
	SPOT ELEVATION (EXIST.)
	SPOT ELEVATION (FINISH)
	SLOPE
	EXIST. CONC. PAVEMENT
	NEW CONC. PAVEMENT/RAISED CURB
	EXIST. CONC. PAVEMENT/AC TO BE DEMOLISHED/REMOVED
	EXIST. CONC. CURB

CONTROL POINT DIMENSION NOTES:

- CONTROL POINT AT "STA. 1" (MUG HUB).
- FROM CONTROL POINT MEASURED PERPENDICULAR TO EXIST. ROCK CURB ALONG LILIHA STREET (STATE).
- FROM CONTROL POINT MEASURED PARALLEL TO EDGE OF NEW CONC. SIDEWALK ALONG LILIHA STREET (STATE).

NOTES:

- SEE DCAB NOTES, SHEET C-3, FOR ADA BUS STOP COMPLIANCE. THE MAXIMUM LIFT PAD, WAITING AREA AND ACCESSIBLE PEDESTRIAN ROUTE SLOPES SHOWN ON THE TYPICAL DETAIL SHEET SHALL GOVERN OVER THE CALCULATED SLOPES SHOWN ON THE PLANS, UNLESS A TECHNICAL INFEASIBILITY (TI) STATEMENT HAS BEEN FILED.
- NOTIFY THE ENGINEER IMMEDIATELY IF FIELD CONDITIONS PRECLUDE ACHIEVEMENT OF THE INDICATED SLOPE.
- IF, DURING CURB RECONSTRUCTION, AN OVERLAP CONC. GUTTER IS ENCOUNTERED IN THE FIELD, IT SHALL BE RECONSTRUCTED. CONTRACTOR TO EXPOSE EXISTING CONCRETE GUTTER.
- INSTALL TEMPORARY STORM DRAIN PROTECTION FOR DOWNSTREAM DRAINAGE INLETS. SEE DETAIL C-21.

IT IS TECHNICALLY INFEASIBLE:

- TO PROVIDE A BUS STOP LIFT PAD & WAITING AREA WITH A MAXIMUM RUNNING SLOPE OF 3.40% DUE TO EXISTING.

AS-BUILT DRAWINGS

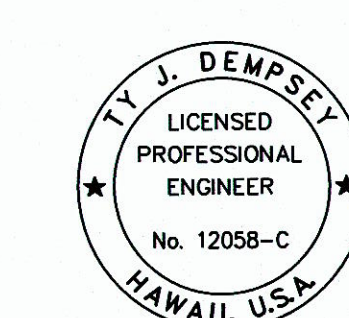
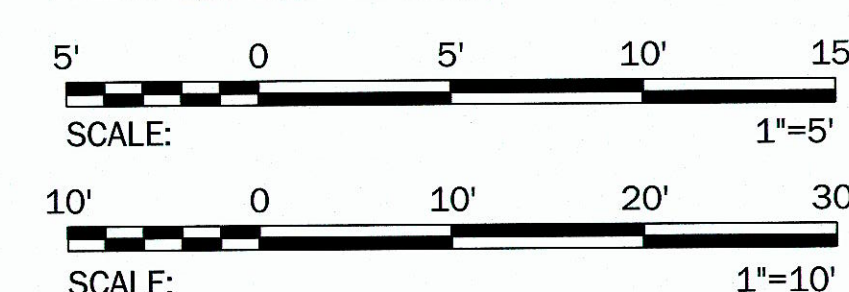
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details, and specifications as constructed in the field.

KAikor CONSTRUCTION CO., INC.

DATE: 7/27/20

IF THIS DRAWING IS LESS THAN 36" X 24" IT IS A REDUCED PRINT. ADJUST SCALE ACCORDINGLY

GRAPHICAL SCALE:



Exp. 4/30/14

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU

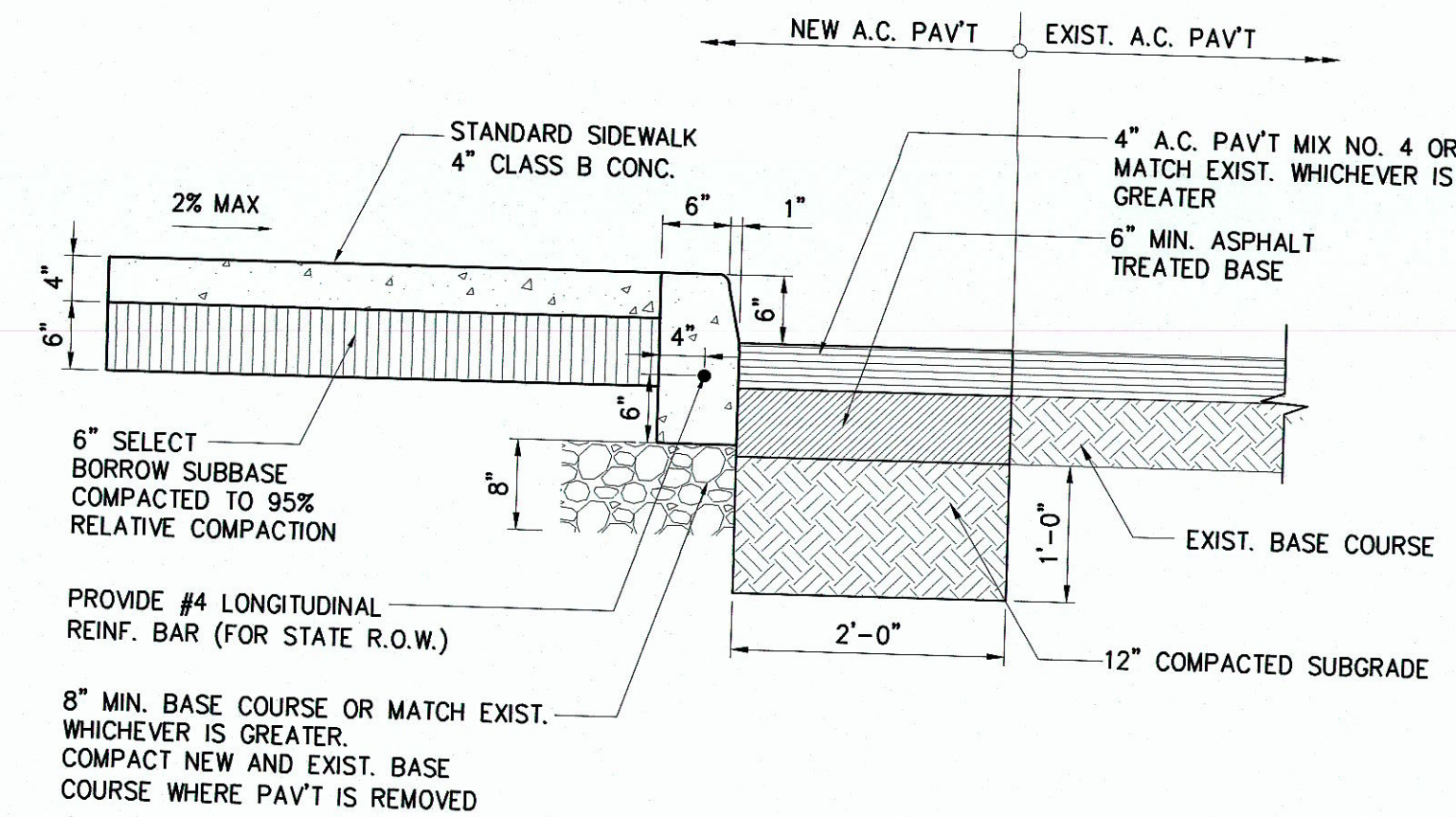
BUS STOP ADA ACCESSIBILITY IMPROVEMENTS PHASE VI

(KALIHI TO MILILANI)
HONOLULU, OAHU, HAWAII

BUS STOP #0054 LILIHA ST & VINEYARD BLVD (STATE)

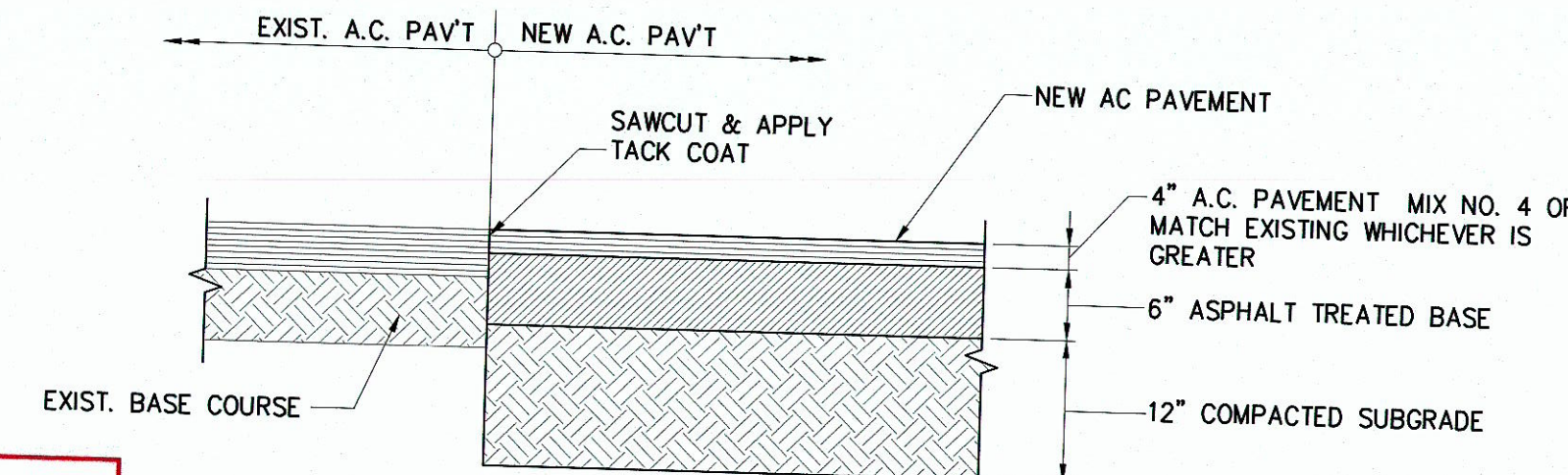
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DRAWN: GD	DIRECTOR, DEPARTMENT OF TRANSPORTATION SERVICES, DTS DATE (FOR WORK WITHIN THE CITY RIGHT OF WAY)	
CHECKED: EL/MY/ET	ADMINISTRATOR, HIGHWAYS DIVISION, DOT DATE (FOR WORK WITHIN THE STATE RIGHT OF WAY)	
DATE: 03/26/13		
PROJECT NO. 3013.10	FILE DRAW FOLDER NUMBER	

"AS-BUILT"

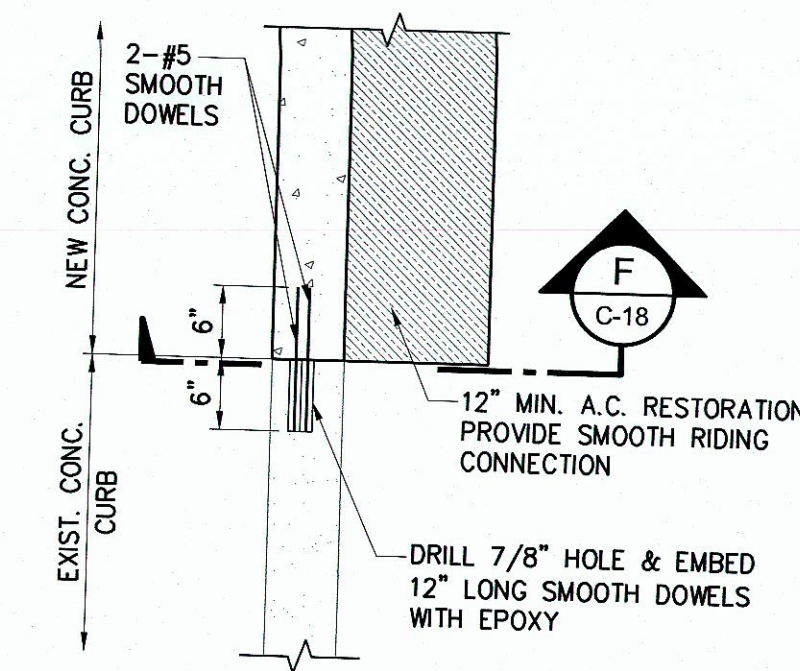


1 STANDARD CURB W/ A.C. PAVEMENT RESTORATION
C-18 SCALE: 3/4" = 1'-0"

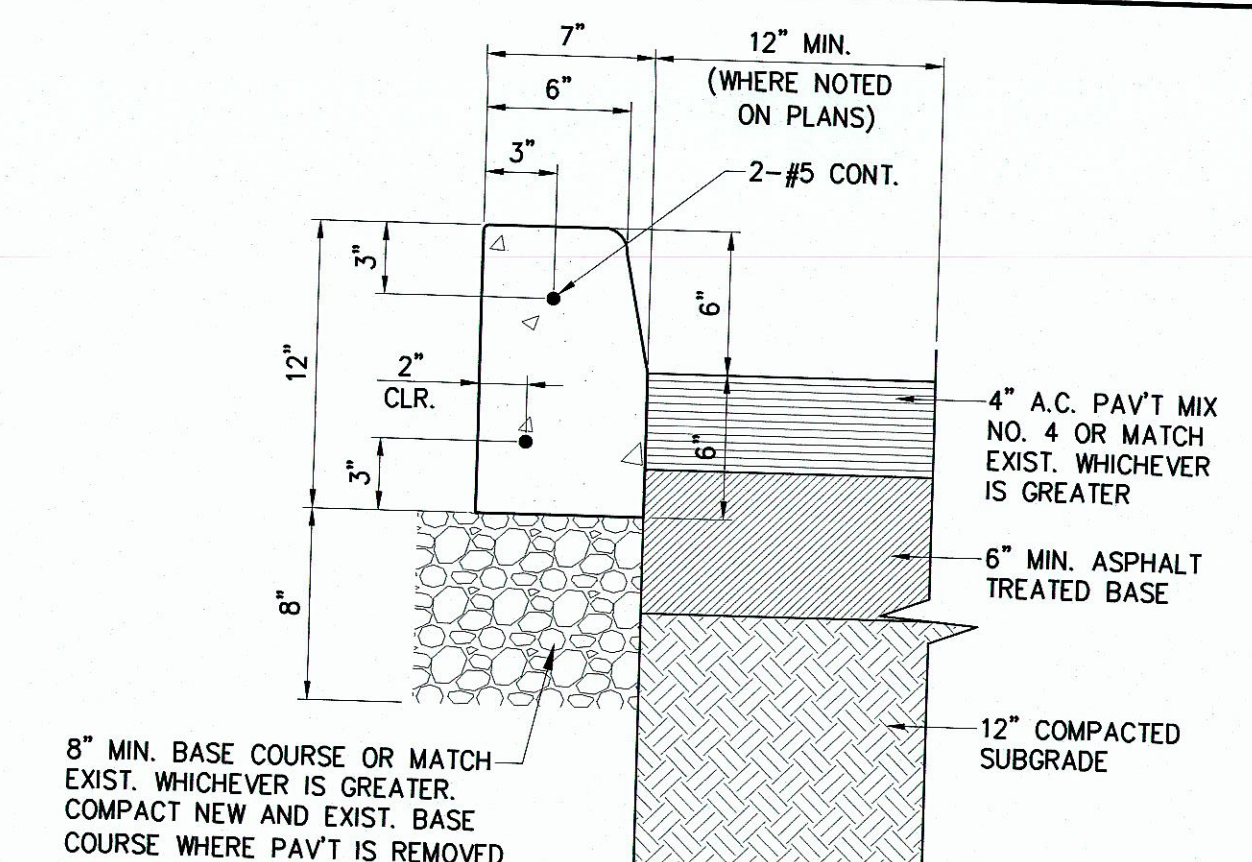
AS-BUILT DRAWINGS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details, and specifications as constructed in the field.
KAIKOR CONSTRUCTION CO., INC.
DATE: 7/27/20



5 A.C. PAVEMENT CONNECTION
C-18 SCALE: 3/4" = 1'-0"

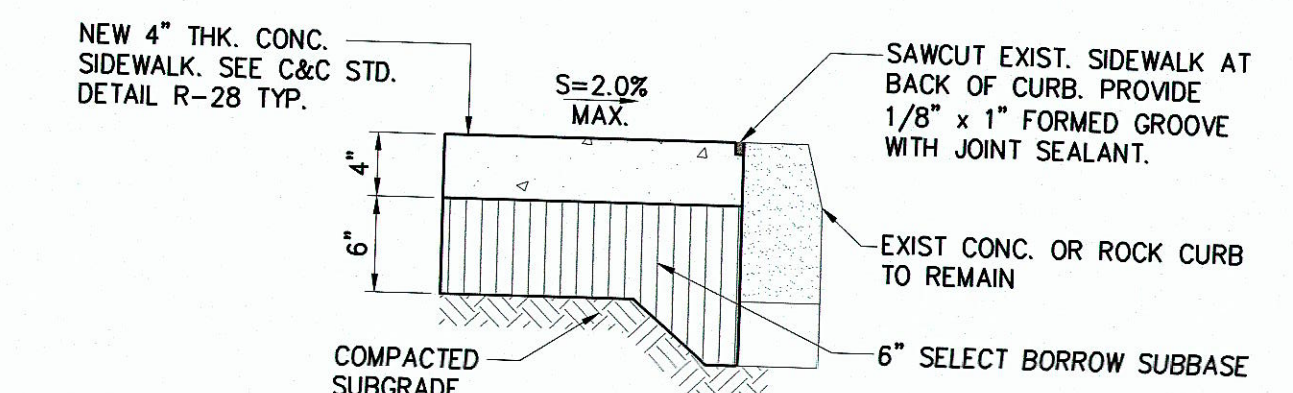


E PLAN
C-18 NOT TO SCALE

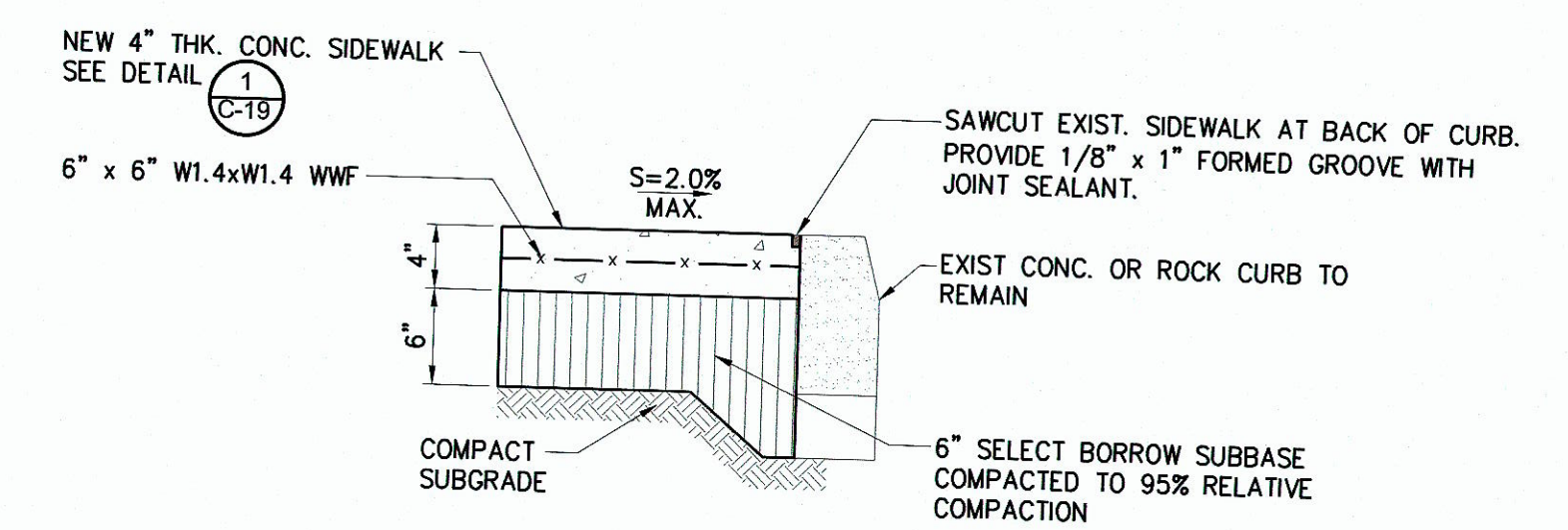


F SECTION
C-18 NOT TO SCALE

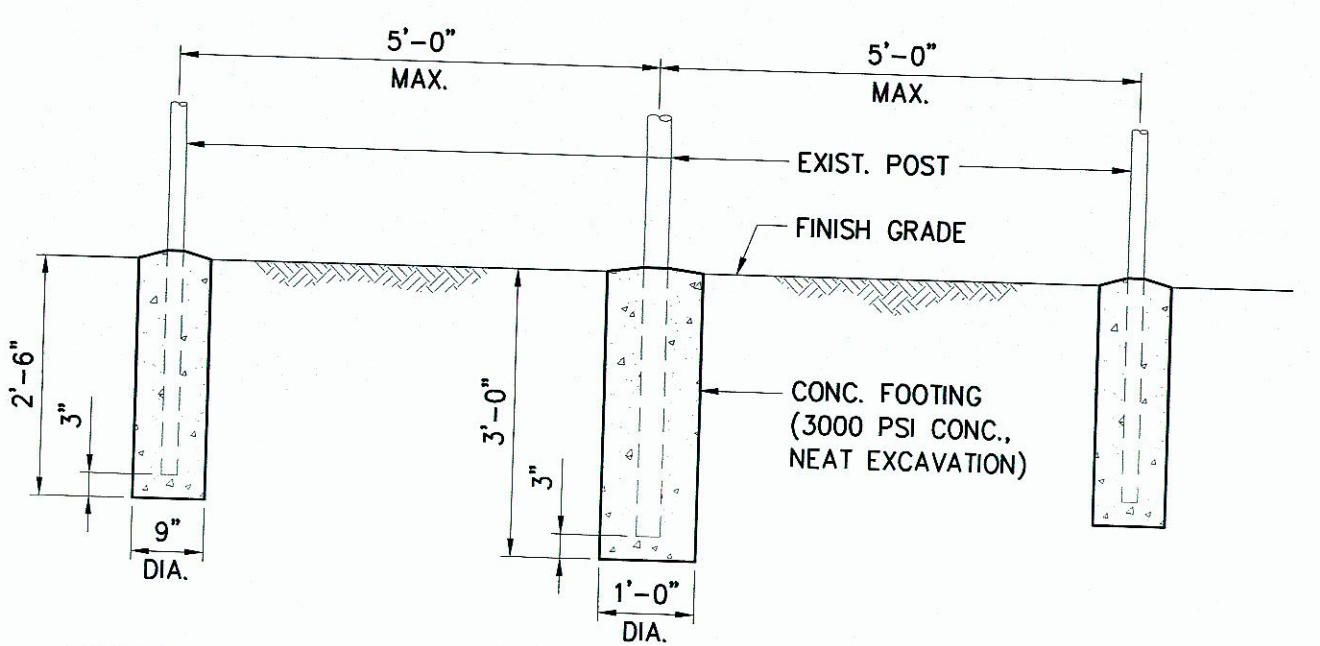
9 CURB CONNECTION
C-18 SCALE: AS SHOWN



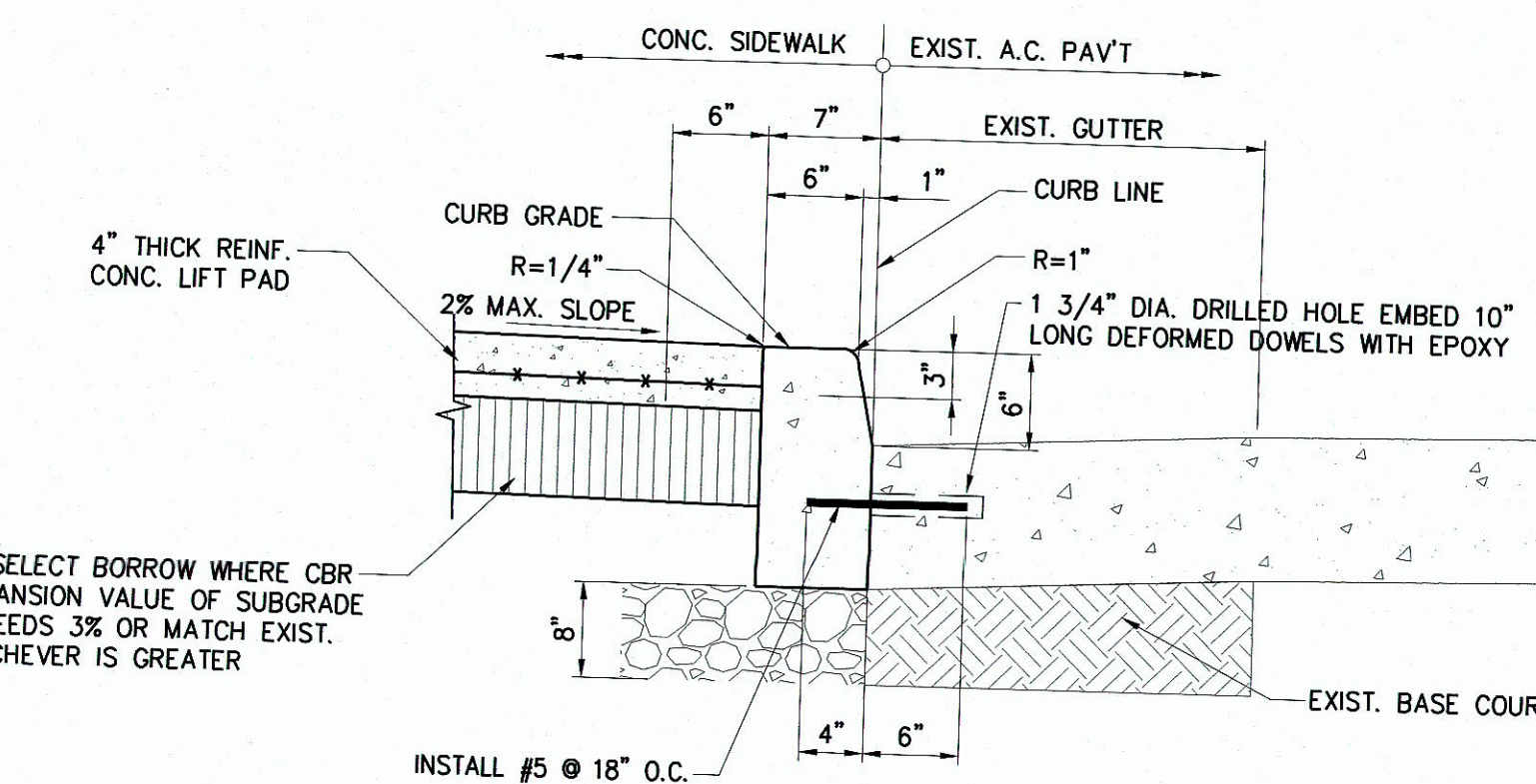
10 NEW CONC. SIDEWALK TO EXIST CONC. CURB OR ROCK CURB CONNECTION DETAIL
C-18 SCALE: 1" = 1'-0"



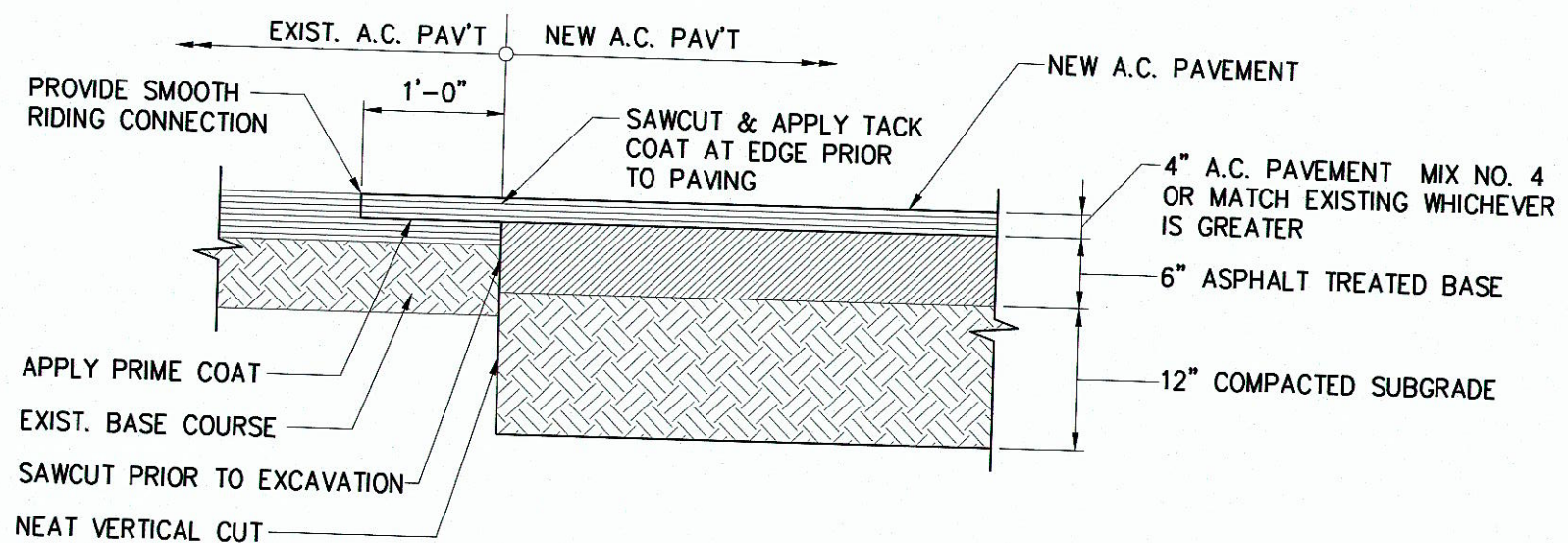
11 NEW CONC. SIDEWALK TO EXIST CONC. CURB OR ROCK CURB CONNECTION DETAIL (STATE R.O.W.)
C-18 SCALE: 1" = 1'-0"



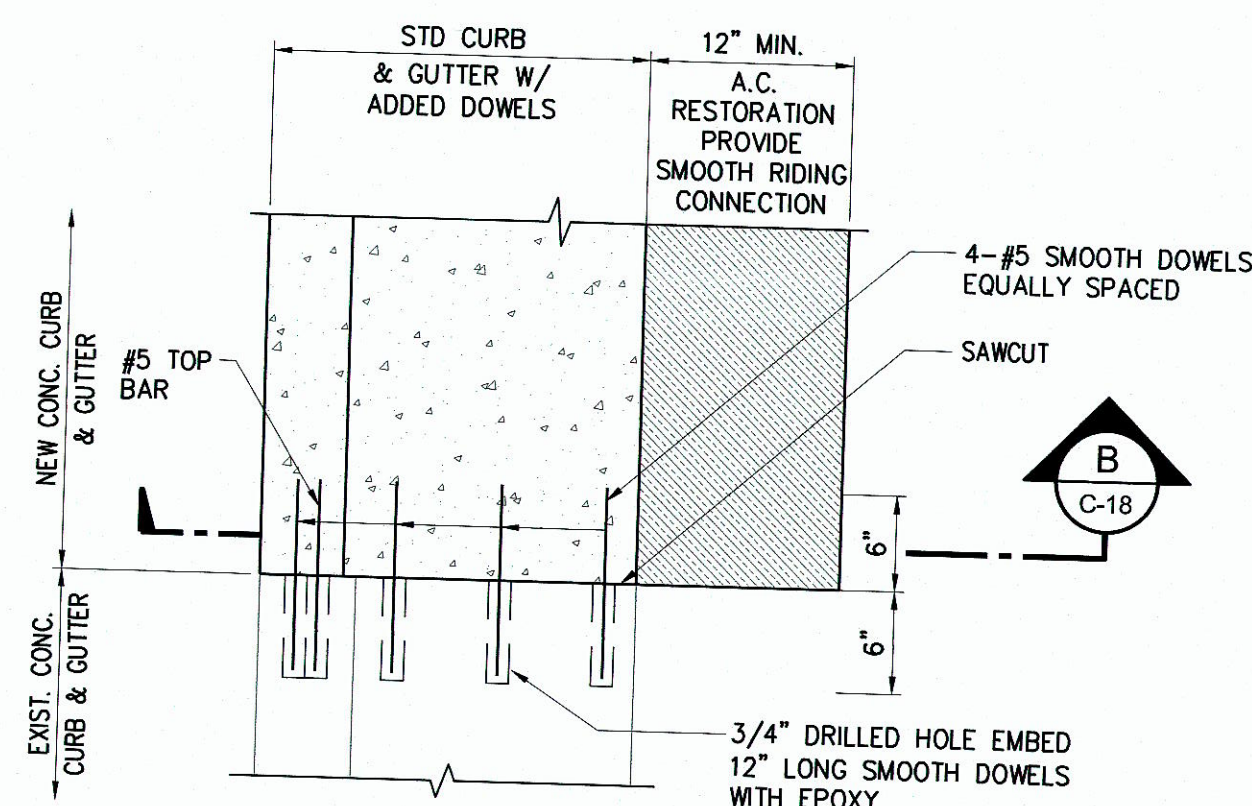
12 CONC. FOOTING FOR EXIST. POST
C-18 NOT TO SCALE



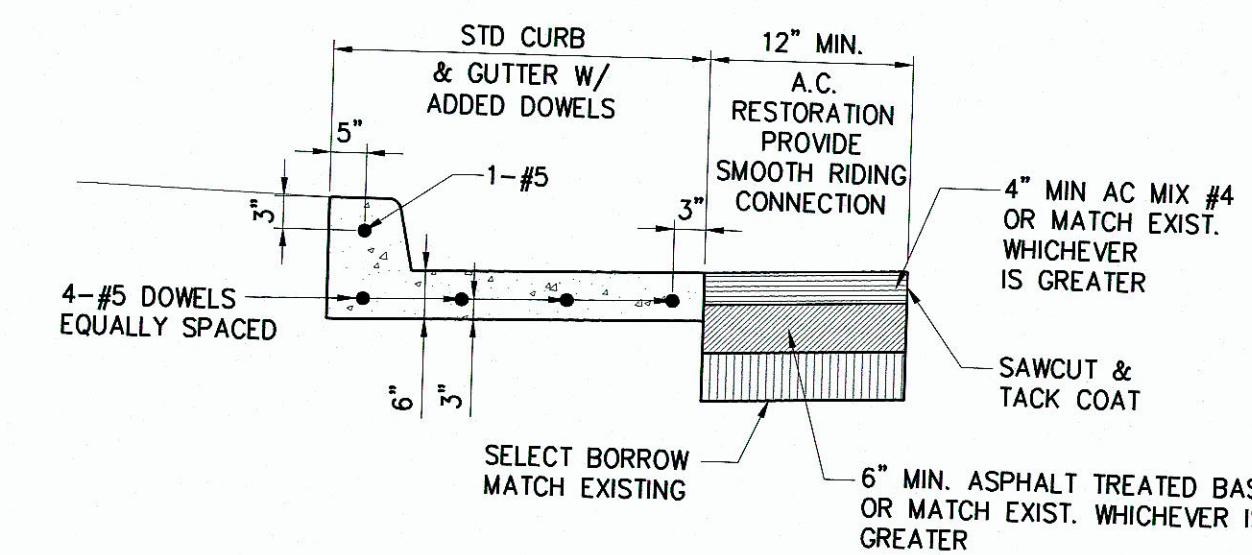
2 NEW CONC. CURB TO EXISTING CONC. GUTTER CONNECTION DETAIL
C-18 SCALE: 1" = 1'-0"



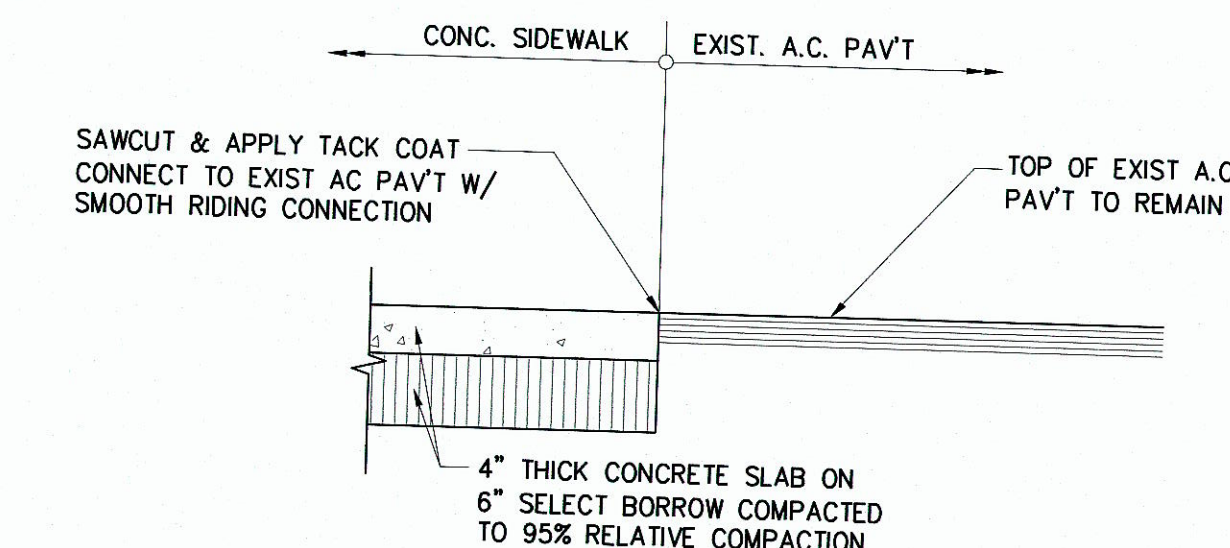
6 A.C. PAVEMENT CONNECTION (STATE R.O.W.)
C-18 SCALE: 3/4" = 1'-0"



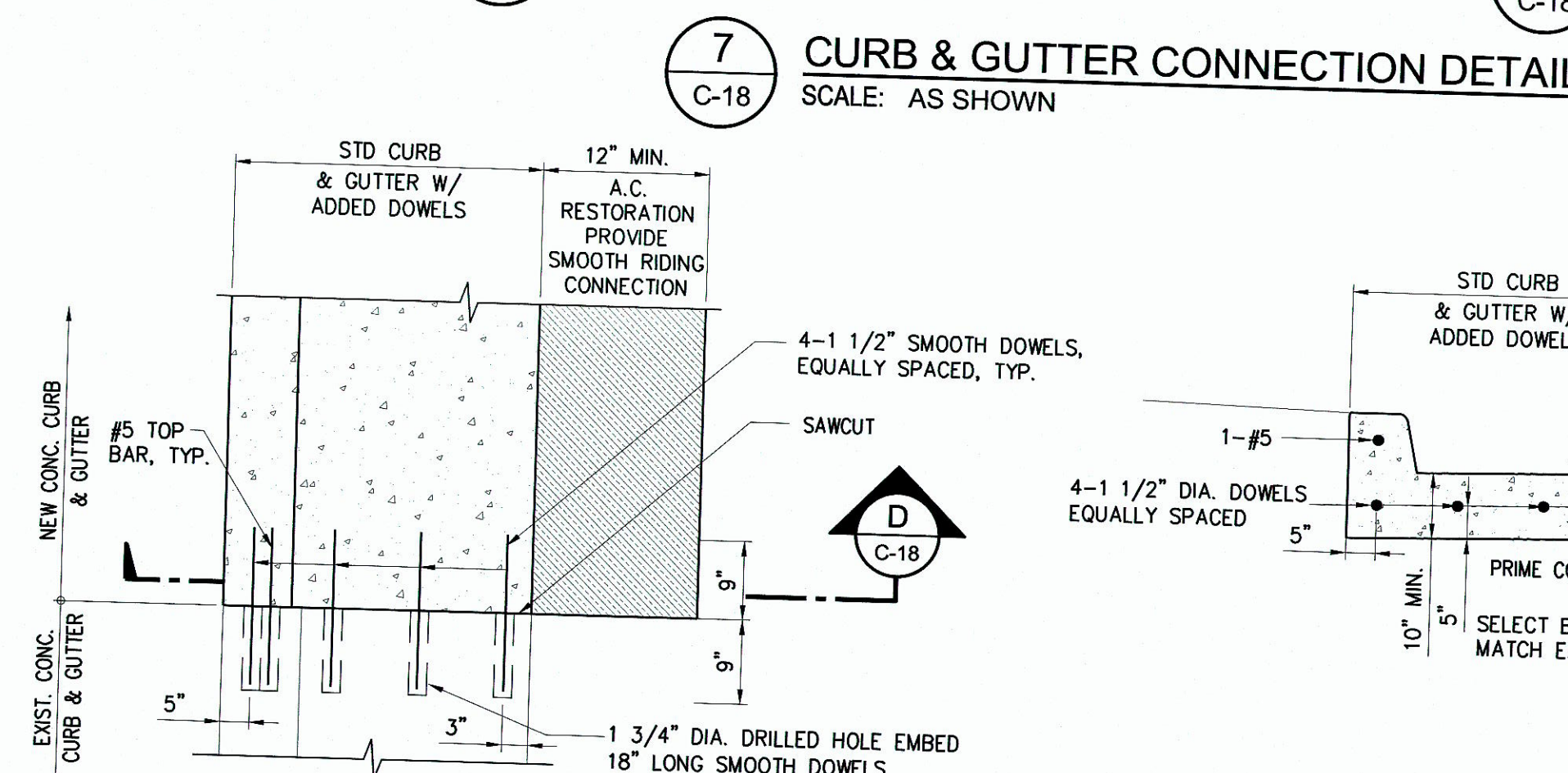
A PLAN
C-18 NOT TO SCALE



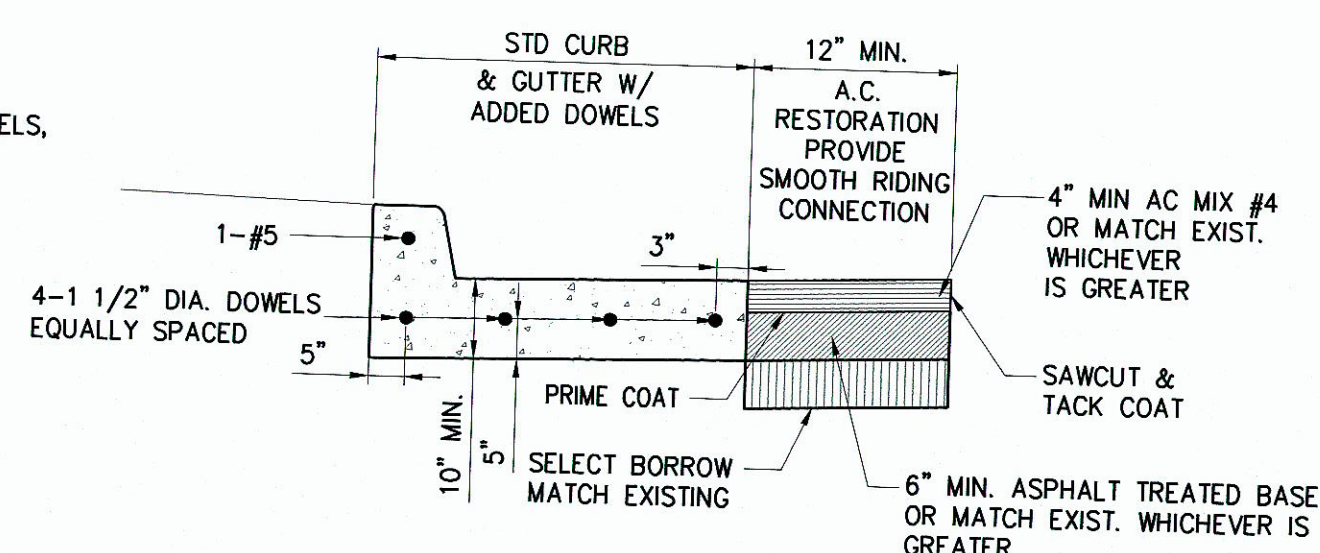
B SECTION
C-18 NOT TO SCALE



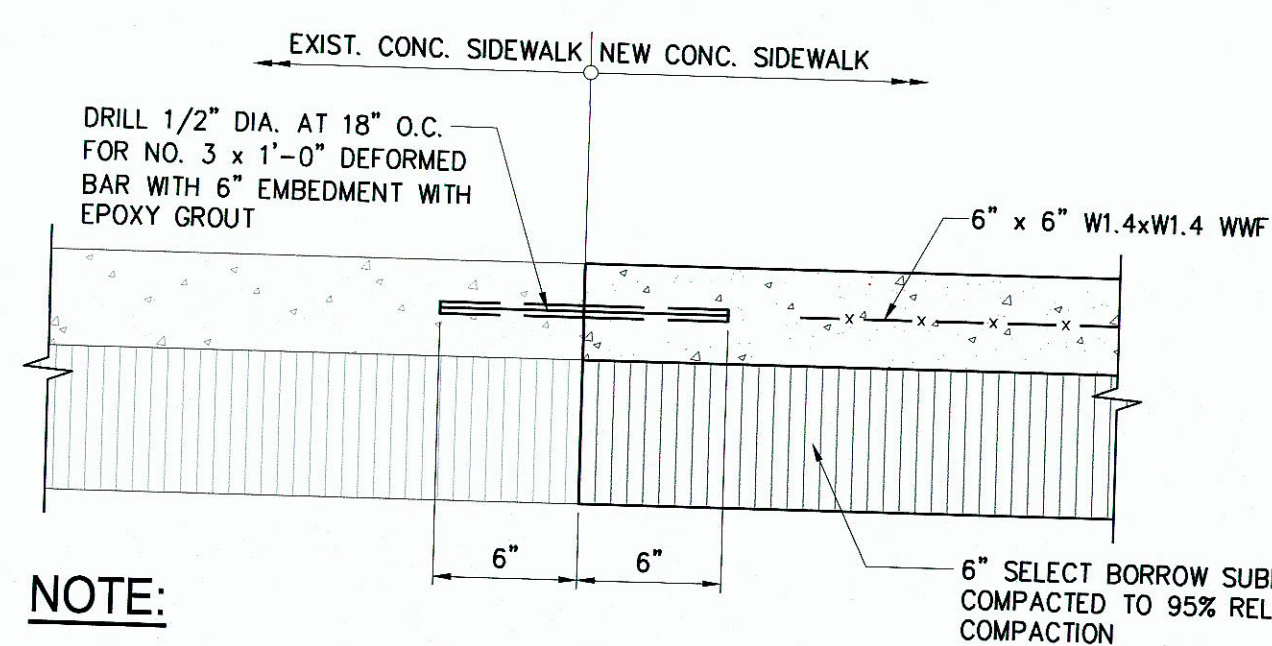
3 CONC. SIDEWALK / A.C. PAVEMENT CONNECTION DETAIL
C-18 SCALE: 3/4" = 1'-0"



7 CURB & GUTTER CONNECTION DETAIL
C-18 SCALE: AS SHOWN

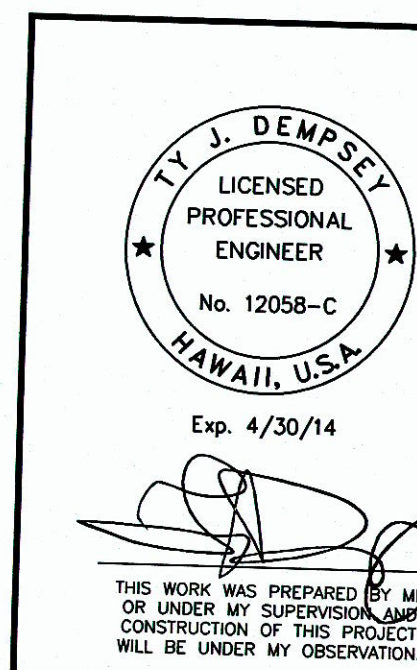
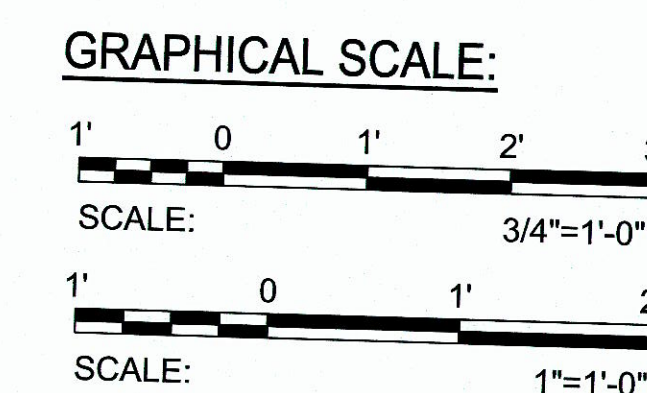


D SECTION
C-18 NOT TO SCALE



4 NEW CONC. CURB RAMP/SIDEWALK TO EXIST. CONC. SIDEWALK CONNECTION DETAILS
C-18 NOT TO SCALE

IF THIS DRAWING IS LESS THAN 36" X 24" IT IS A REDUCED PRINT. ADJUST SCALE ACCORDINGLY



DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU

BUS STOP ADA ACCESSIBILITY IMPROVEMENTS
PHASE VI
(KALIHI TO MILILANI)
HONOLULU, OAHU, HAWAII

DETAILS - 1

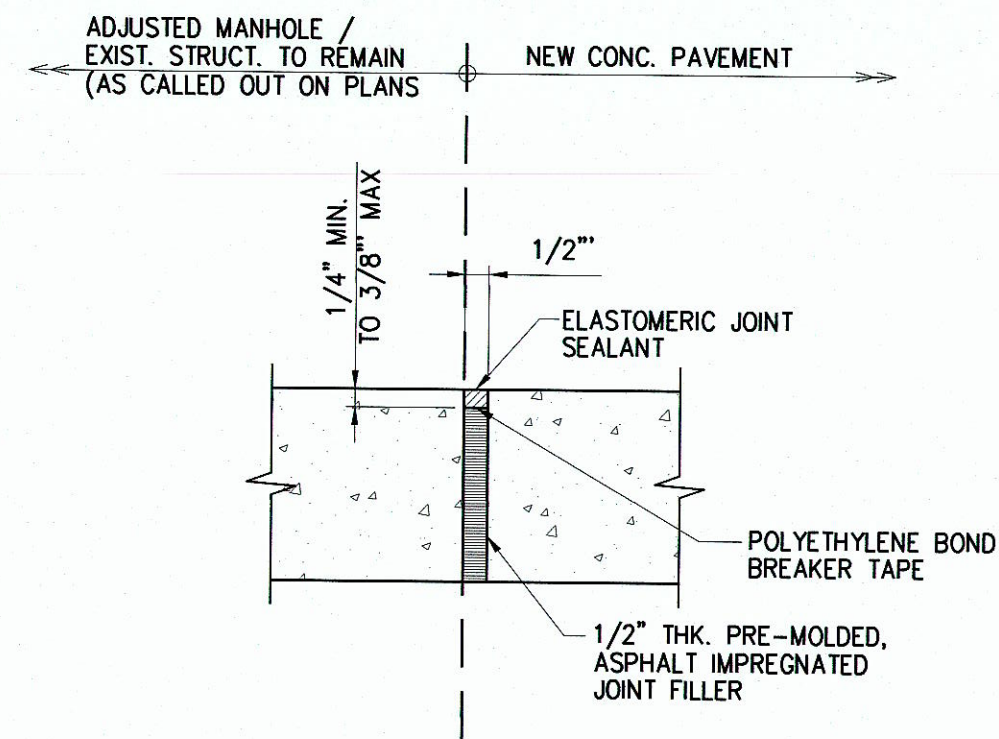
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DRAWN: GD	DIRECTOR, DEPARTMENT OF TRANSPORTATION SERVICES, DTS DATE (FOR WORK WITHIN THE CITY RIGHT OF WAY)
CHECKED: EL/MY	ADMINISTRATOR, HIGHWAYS DIVISION, DOT DATE (FOR WORK WITHIN THE STATE RIGHT OF WAY)
DATE: 03/26/13	PROJECT NO. 3013.10

SHEET No. **C-18** OF 42 SHEETS

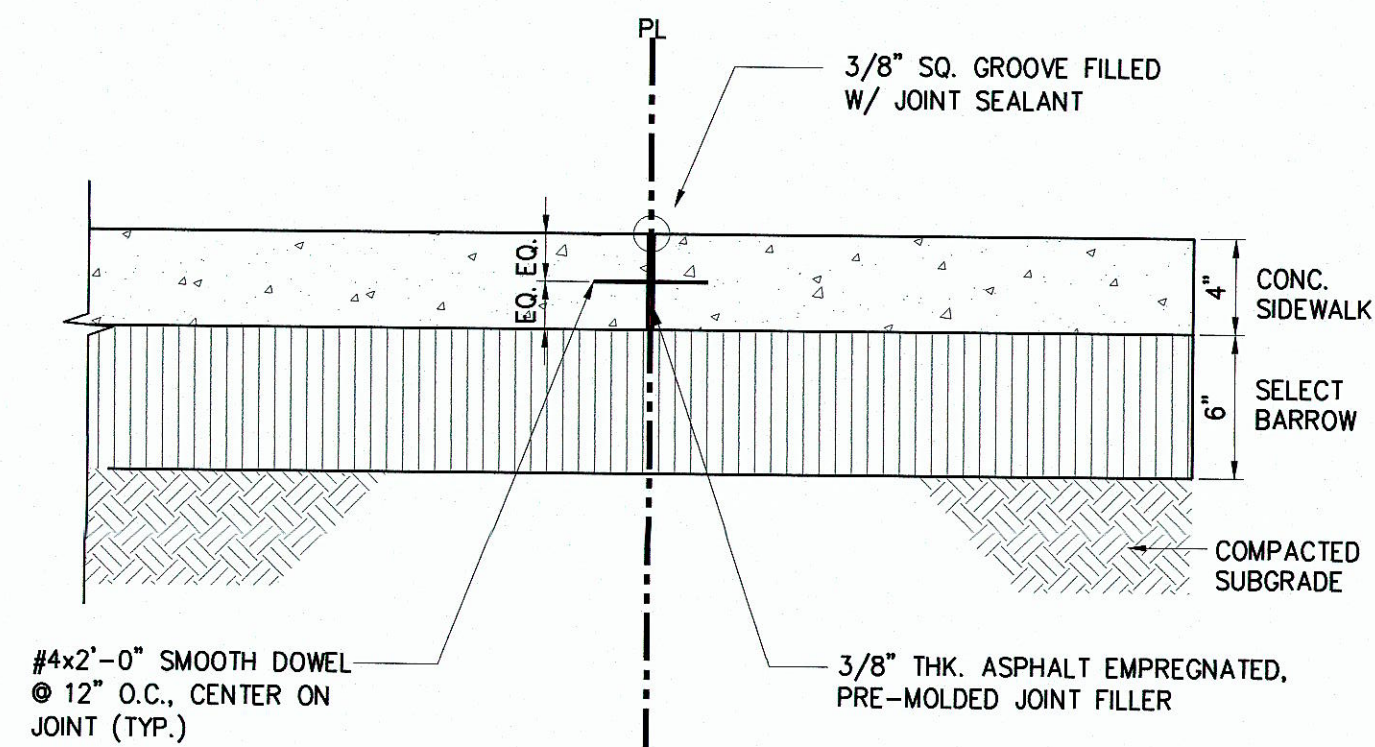
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"AS-BUILT"

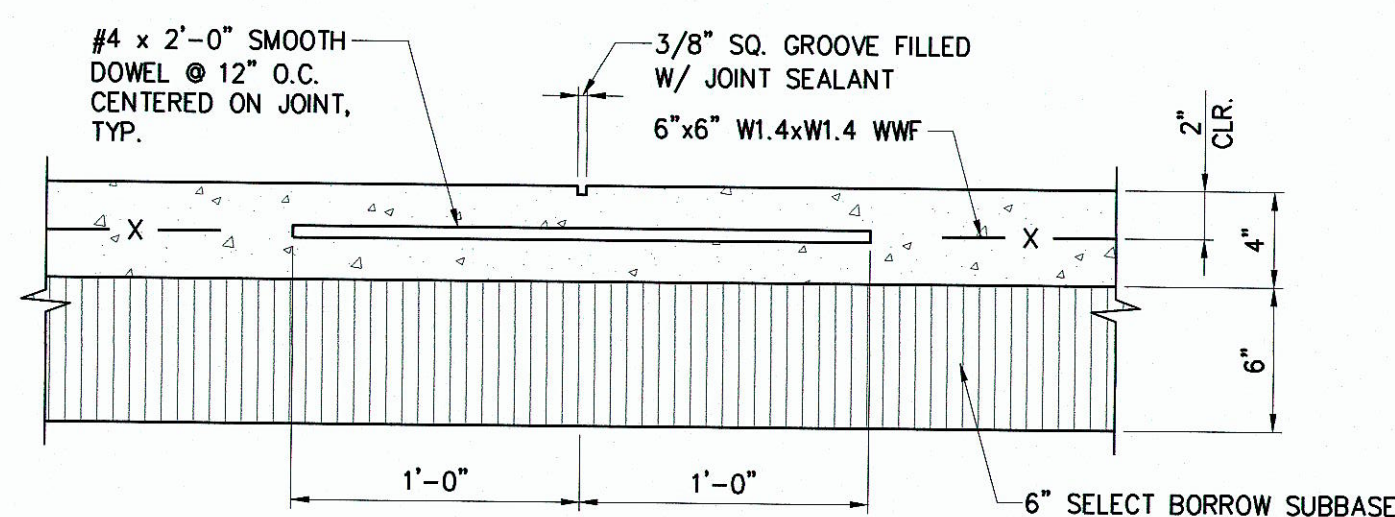
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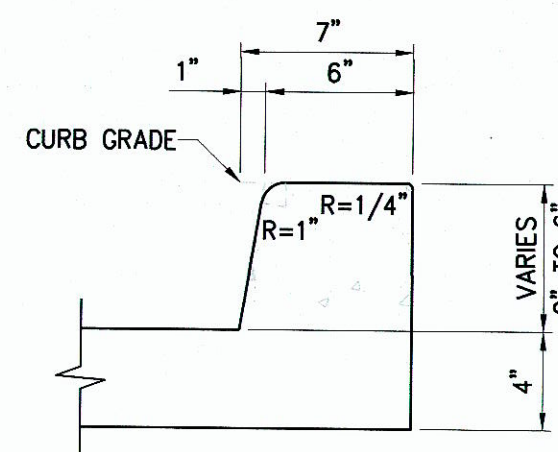
1 ISOLATION JOINT DETAIL
C-20 NOT TO SCALE



2 EXPANSION JOINT DETAIL @ PL
C-20 NOT TO SCALE



3 TRANSVERSE CONSTRUCTION JOINT DETAIL
C-20 NOT TO SCALE

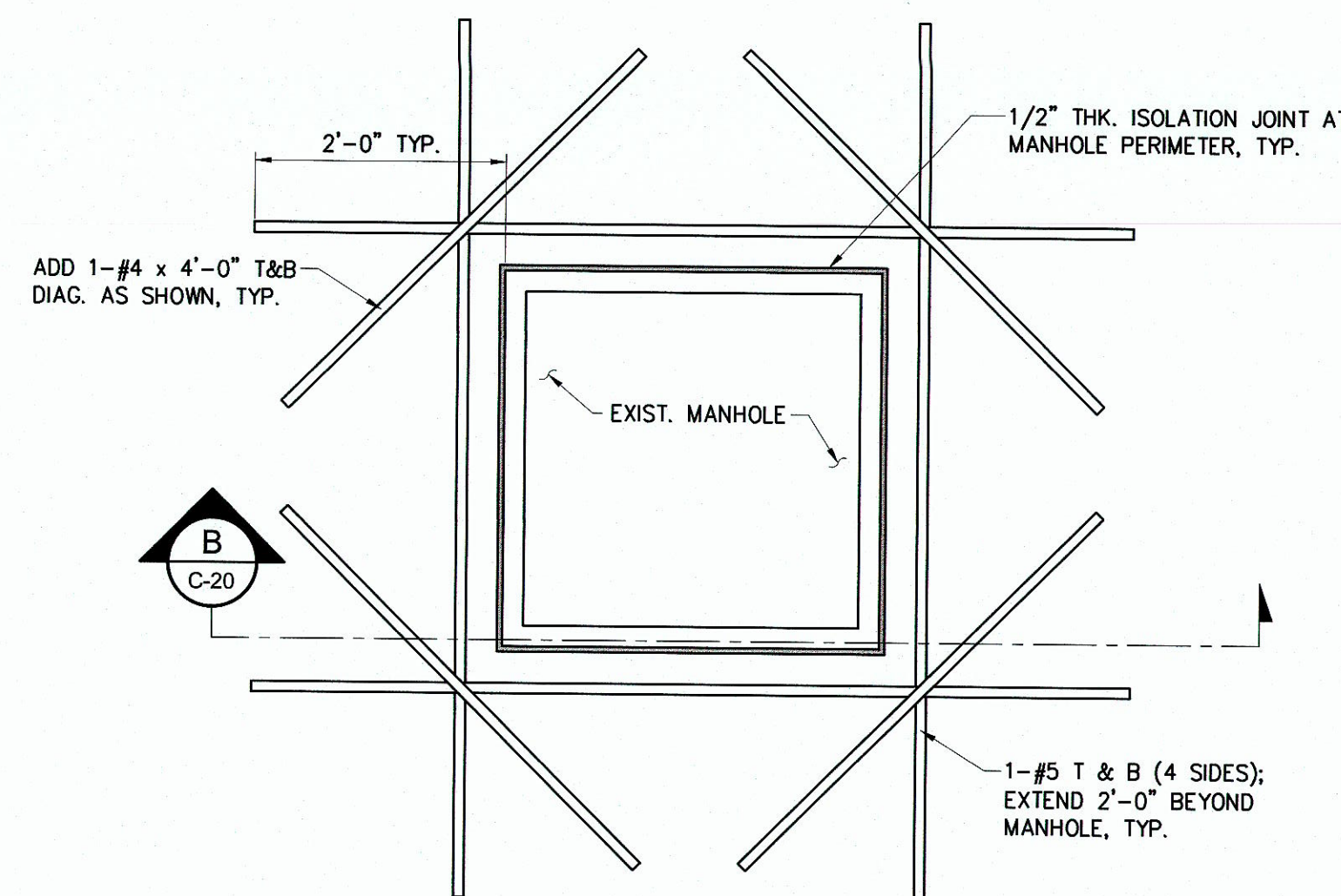


4 SECTION GRADE ADJUSTMENT CURB
C-20 SCALE: 1-1/2" = 1'-0"

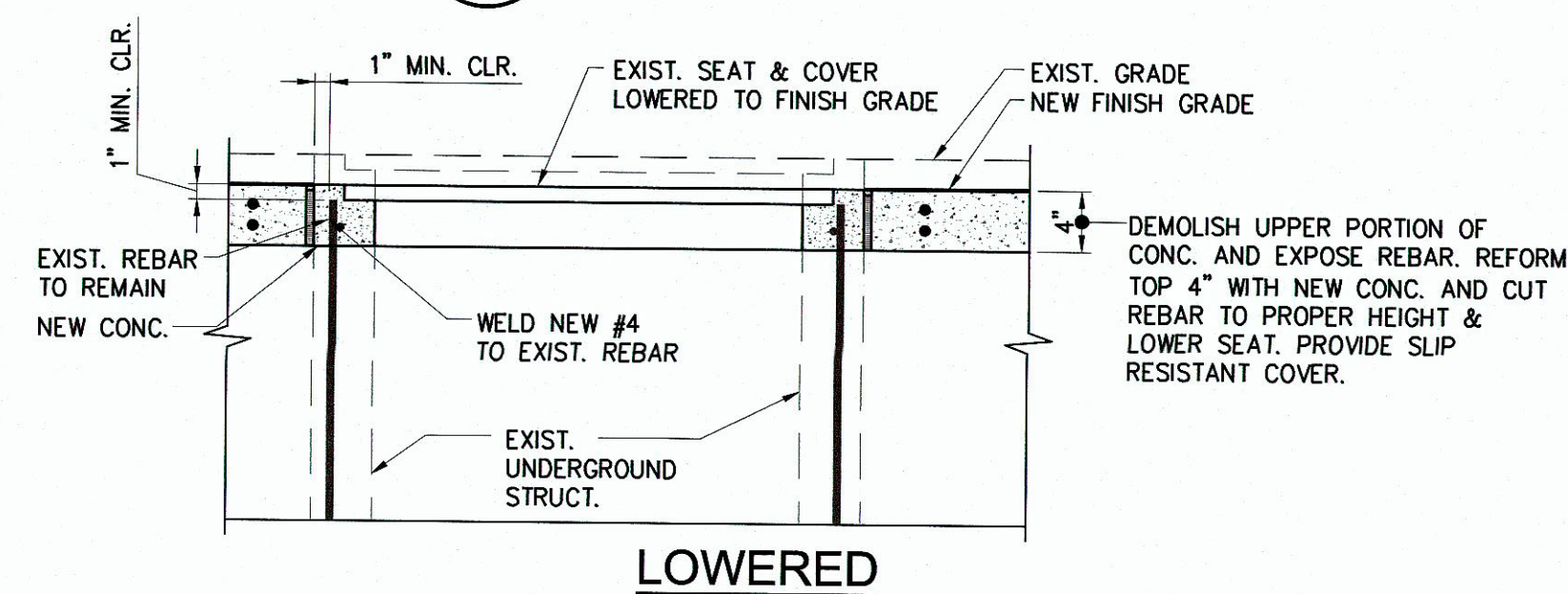


5 GRASS / WEDELIA RESTORATION DETAIL
C-20 NOT TO SCALE

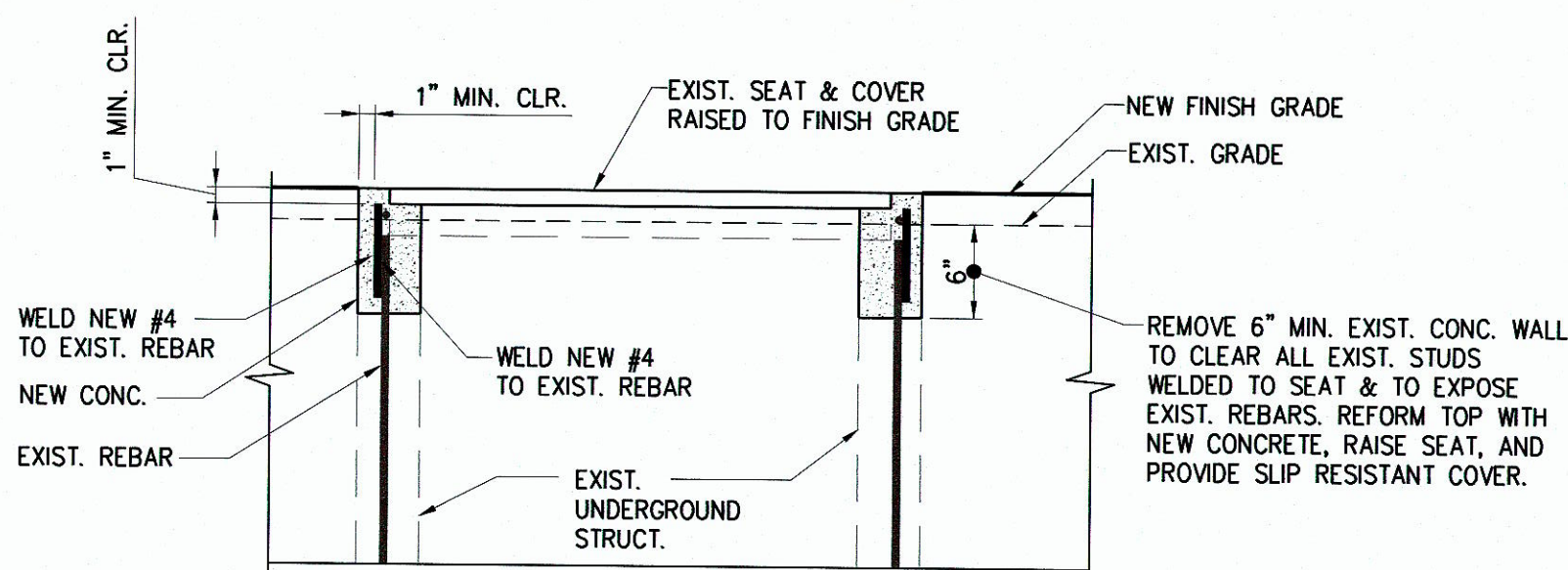
IF THIS DRAWING IS LESS THAN
36" X 24"
IT IS A REDUCED PRINT.
ADJUST SCALE ACCORDINGLY



A PLAN
C-20 SCALE: 3/4" = 1'-0"



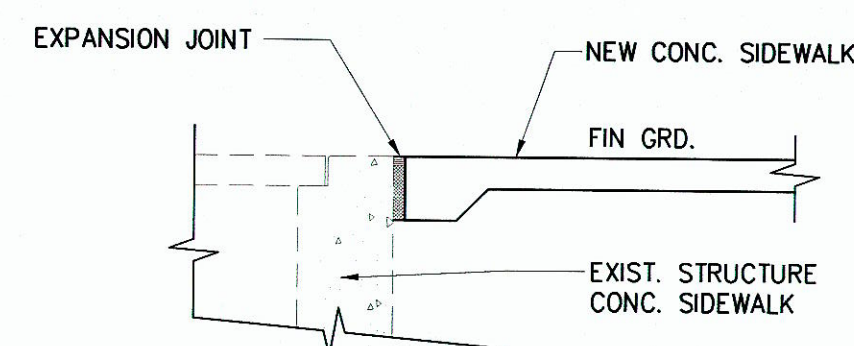
LOWERED



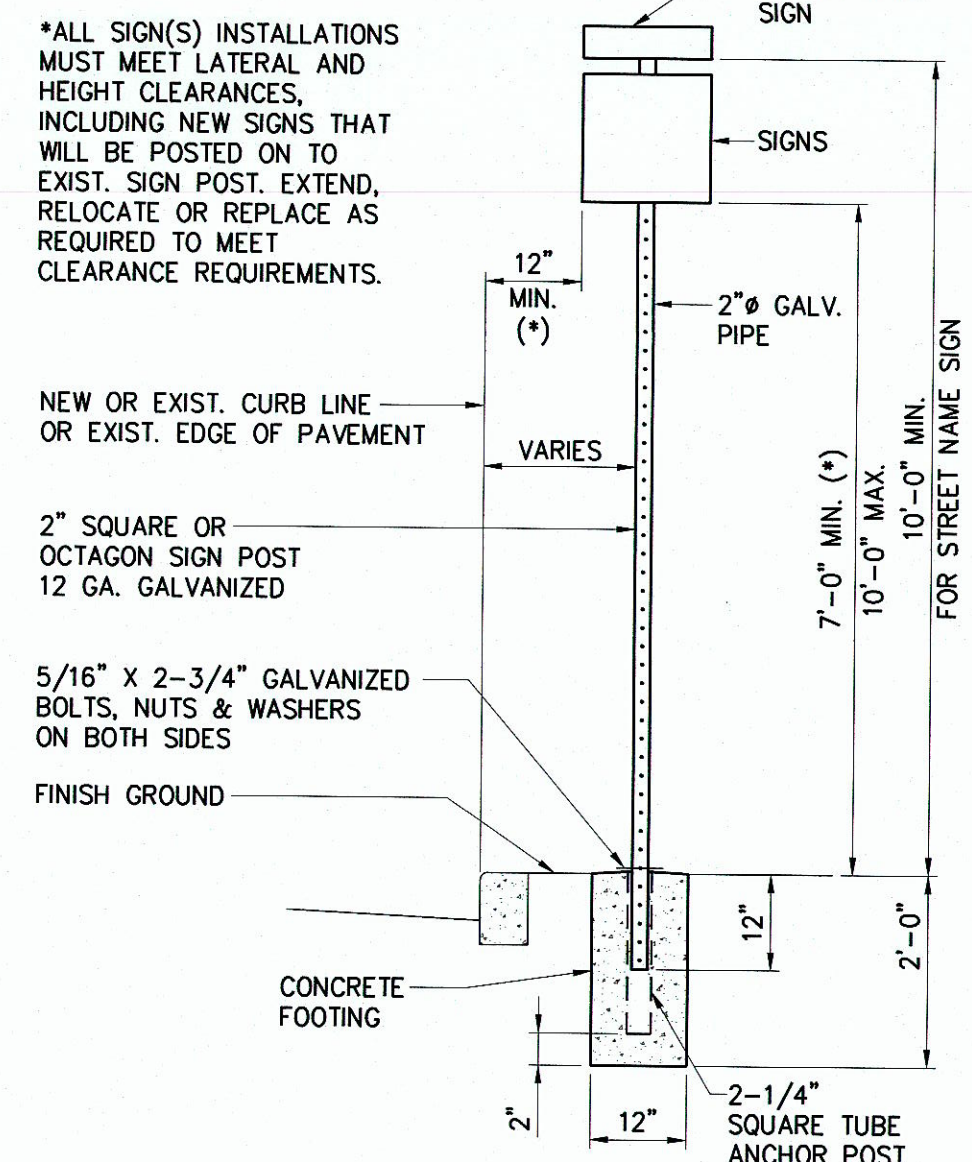
RAISED

B SECTION
C-20 SCALE: 1" = 1'-0"

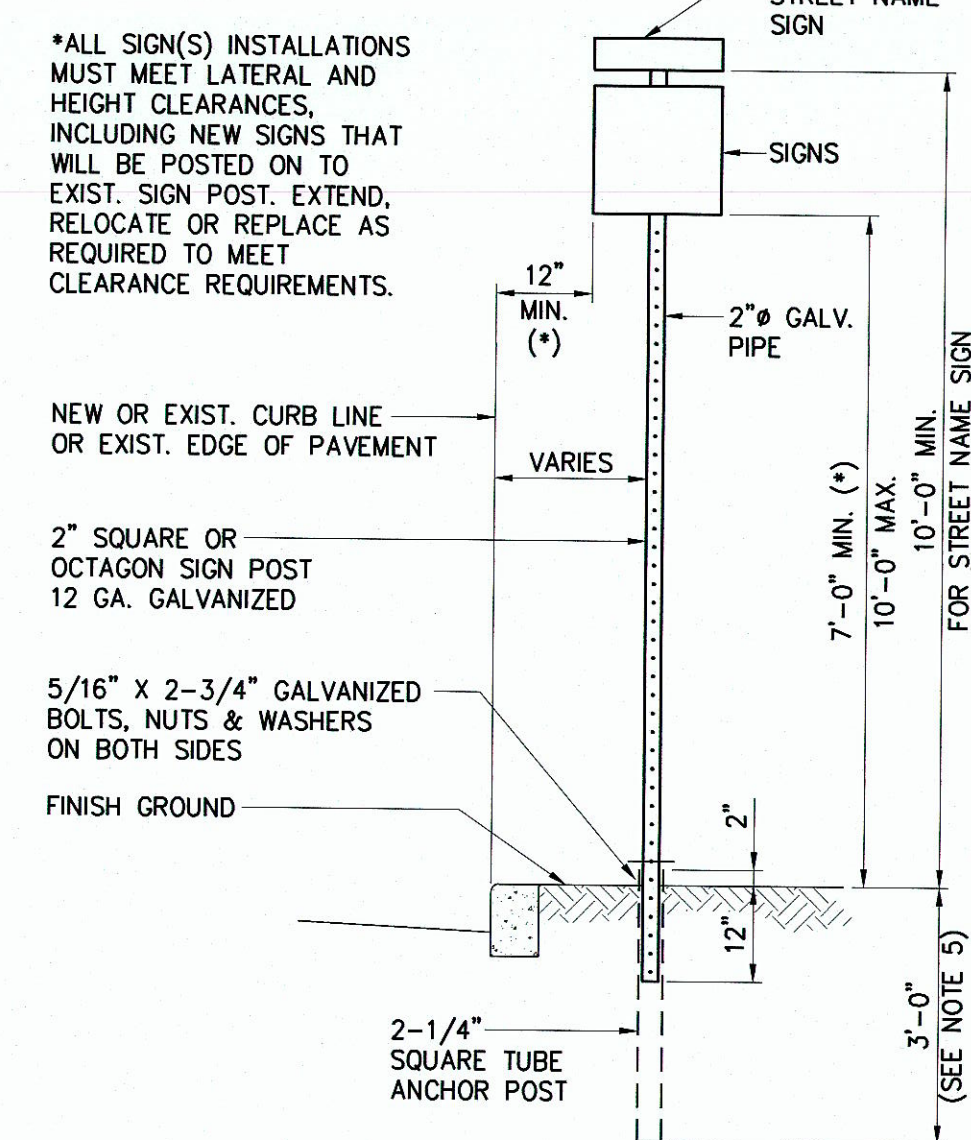
6 EXISTING BOX & SEAT ADJUSTMENT DETAIL
C-20 SCALE: AS SHOWN



7 EXIST. STRUCTURE CONNECTION
C-20 NOT TO SCALE

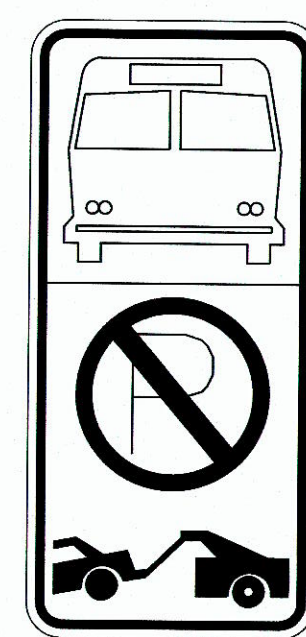


WITH CONCRETE FOOTING



WITH ANCHOR POST, WITHOUT CONCRETE FOOTING

8 INSTALLATION OF NEW OR RELOCATED SIGN POST
C-20 NOT TO SCALE



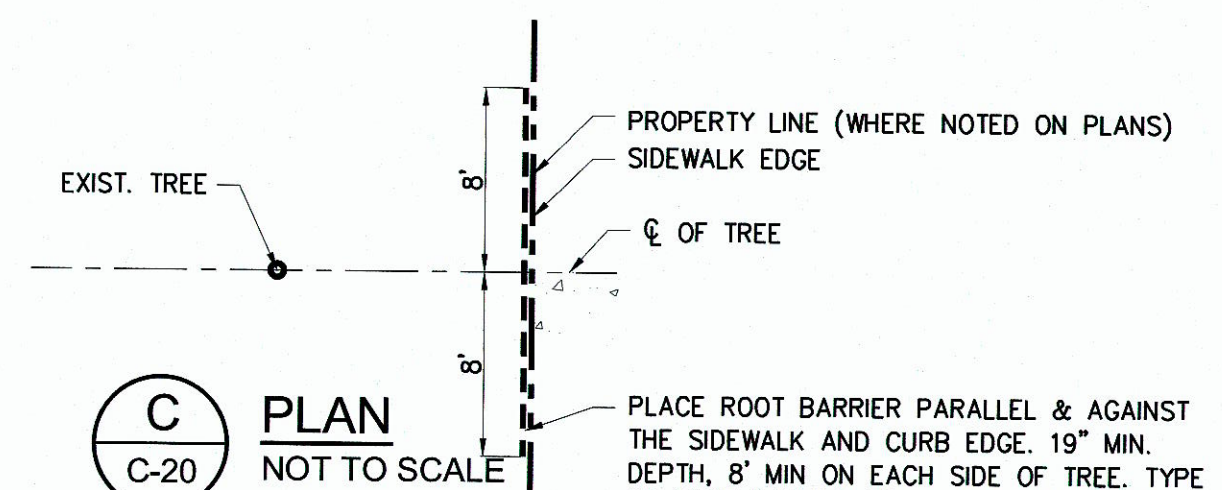
W/O ISA
R7-1
12" x 18"



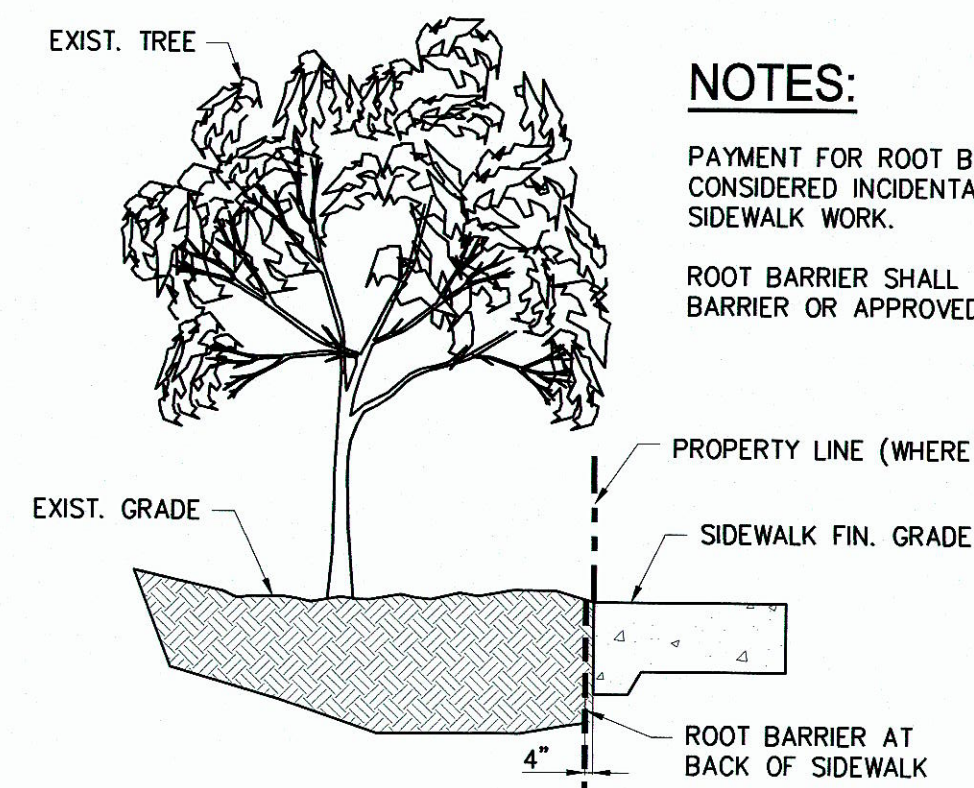
W/ ISA
R7-107
12" x 24"

NOTE:

BUS ROUTE IDENTIFICATION SIGNS SHALL COMPLY WITH 703.5.1 THROUGH 703.5.4, AND 703.5.7 AND 703.5.8. IN ADDITION, TO MAXIMUM EXTENT PRACTICABLE, BUS ROUTE IDENTIFICATION SIGNS SHALL COMPLY WITH 703.5.5.

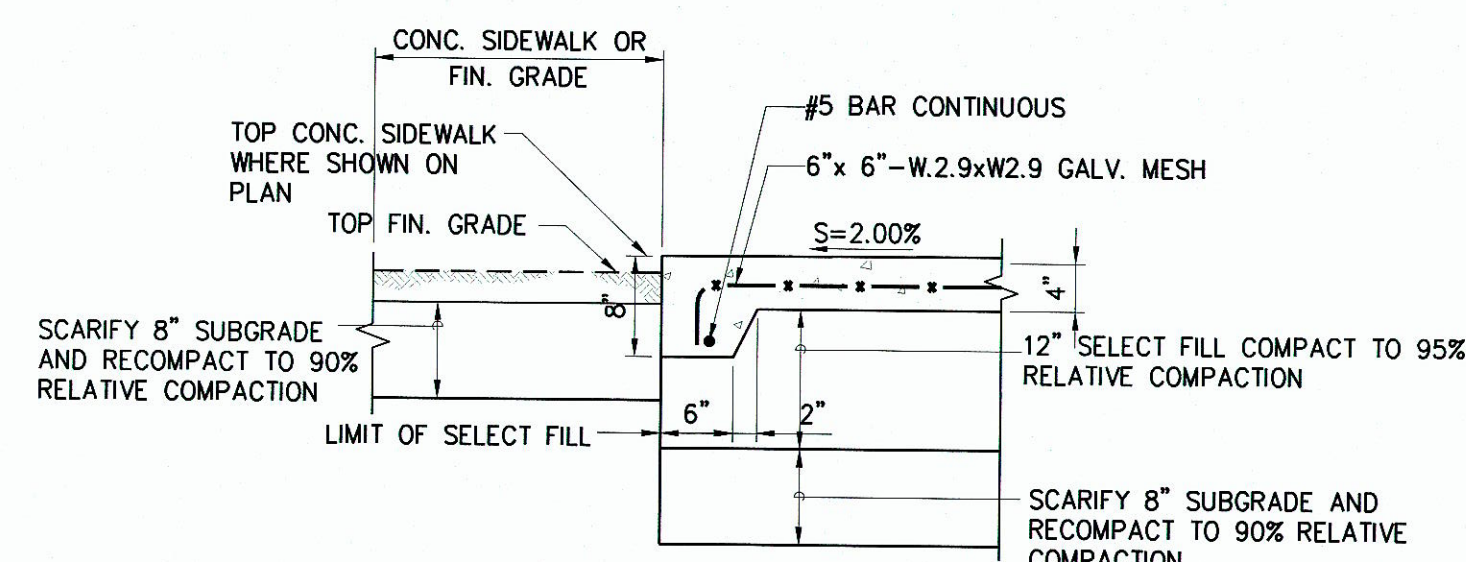


C PLAN
C-20 NOT TO SCALE



D ELEVATION
C-20 NOT TO SCALE

11 ROOT BARRIER DETAIL
C-20 SCALE: AS SHOWN



10 THICKENED EDGE CONC. PAV'T DETAIL
C-20 NOT TO SCALE

AS-BUILT DRAWINGS

This certifies that the dimensions and details shown on this sheet reflect the dimensions and details, and specifications as constructed in the field.

KAIKOR CONSTRUCTION CO., INC.

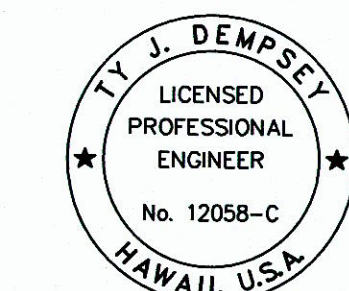
DATE: 7/27/20

GRAPHICAL SCALE:

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

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

0.5' 0 1' 2'
SCALE: 1-1/2"=1'-0"



Exp. 4/30/14
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

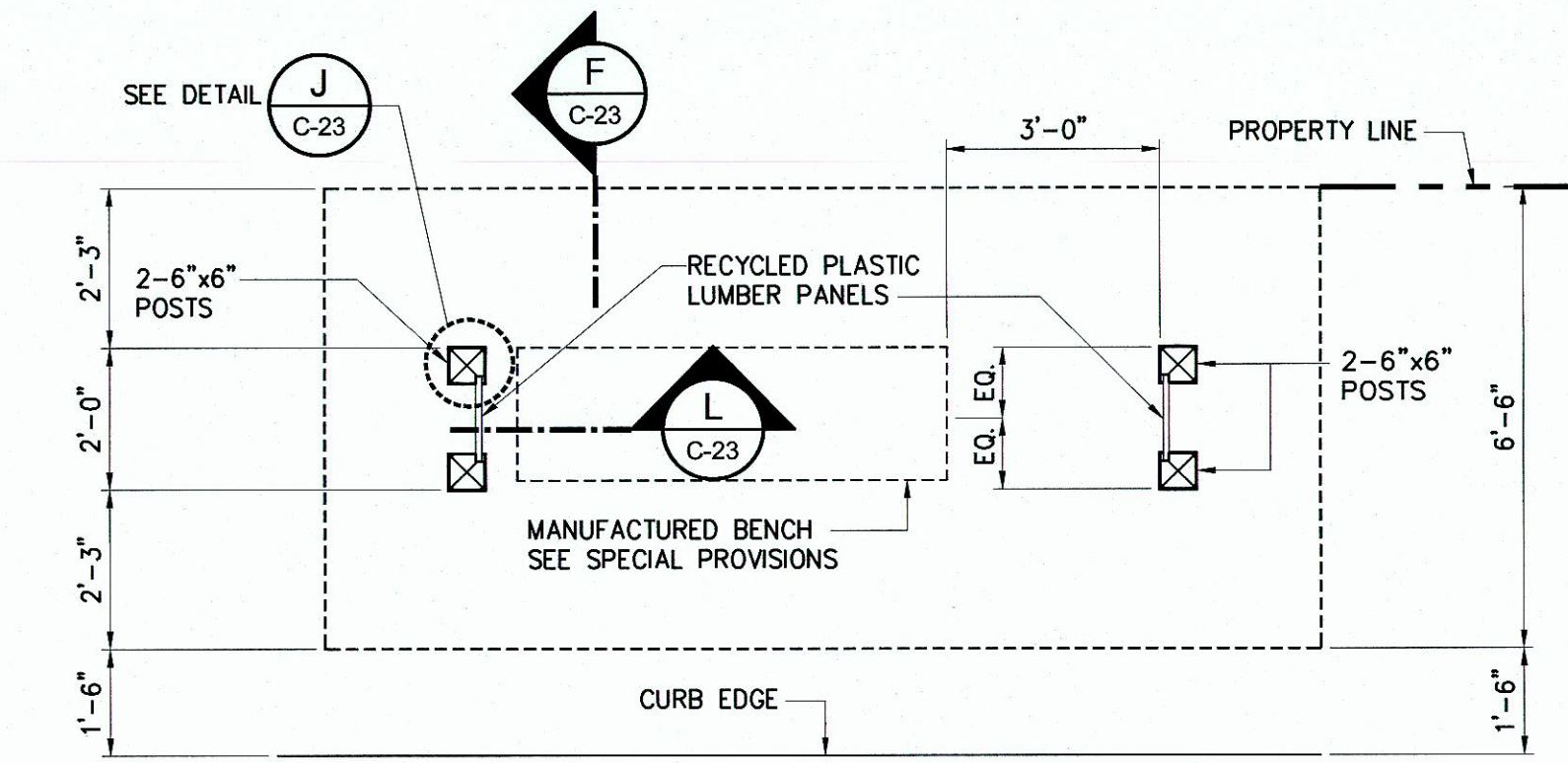
DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU

**BUS STOP ADA ACCESSIBILITY IMPROVEMENTS
PHASE VI
(KALIHI TO MILILANI)
HONOLULU, OAHU, HAWAII**

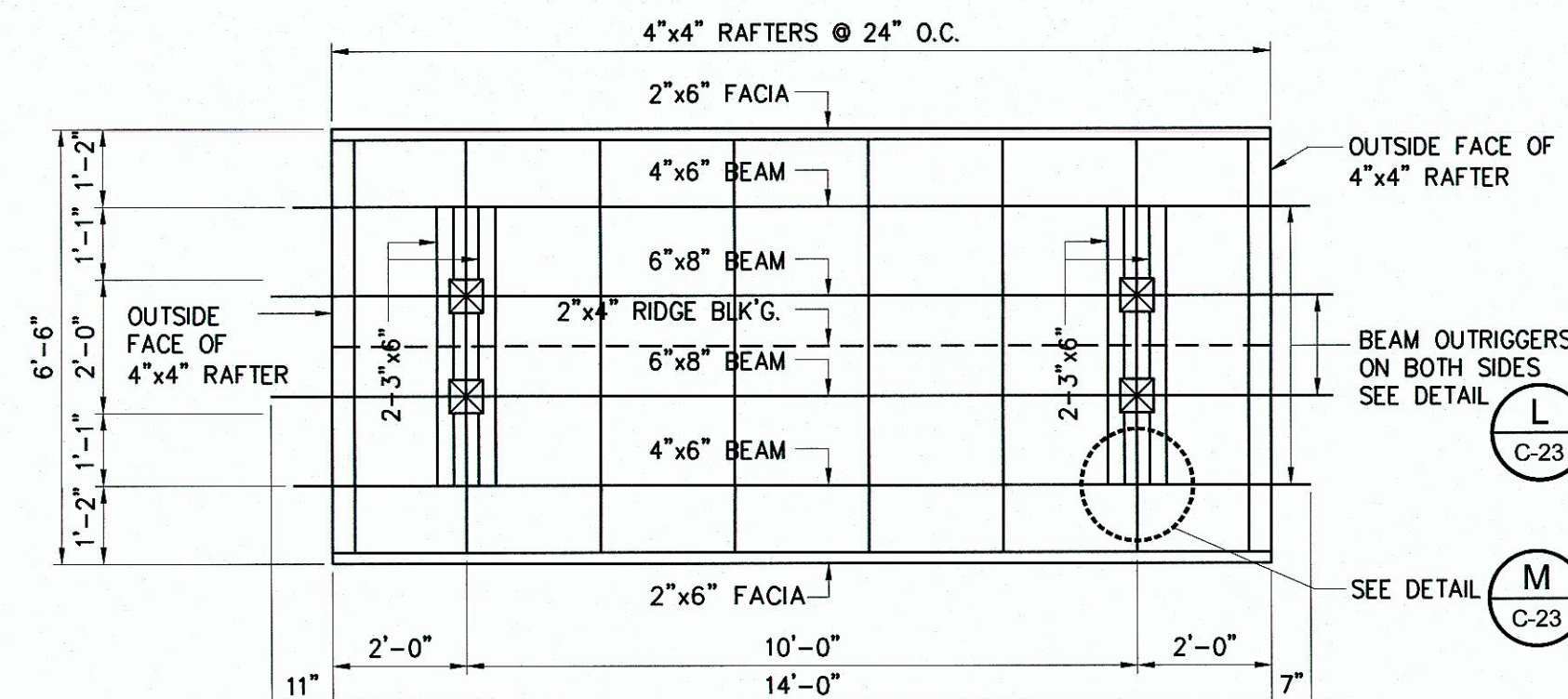
DETAILS - 3

DESIGN: RF	APPROVED:	SHEET No. C-20
DRAWN: GD	DIRECTOR, DEPARTMENT OF TRANSPORTATION SERVICES, DTS DATE (FOR WORK WITHIN THE CITY RIGHT OF WAY)	OF 42 SHEETS
CHECKED: EL /MY	ADMINISTRATOR, HIGHWAYS DIVISION, DOT DATE (FOR WORK WITHIN THE STATE RIGHT OF WAY)	
DATE: 03/26/13		
PROJECT NO. 3013.10	FILE DRAW FOLDER NUMBER	

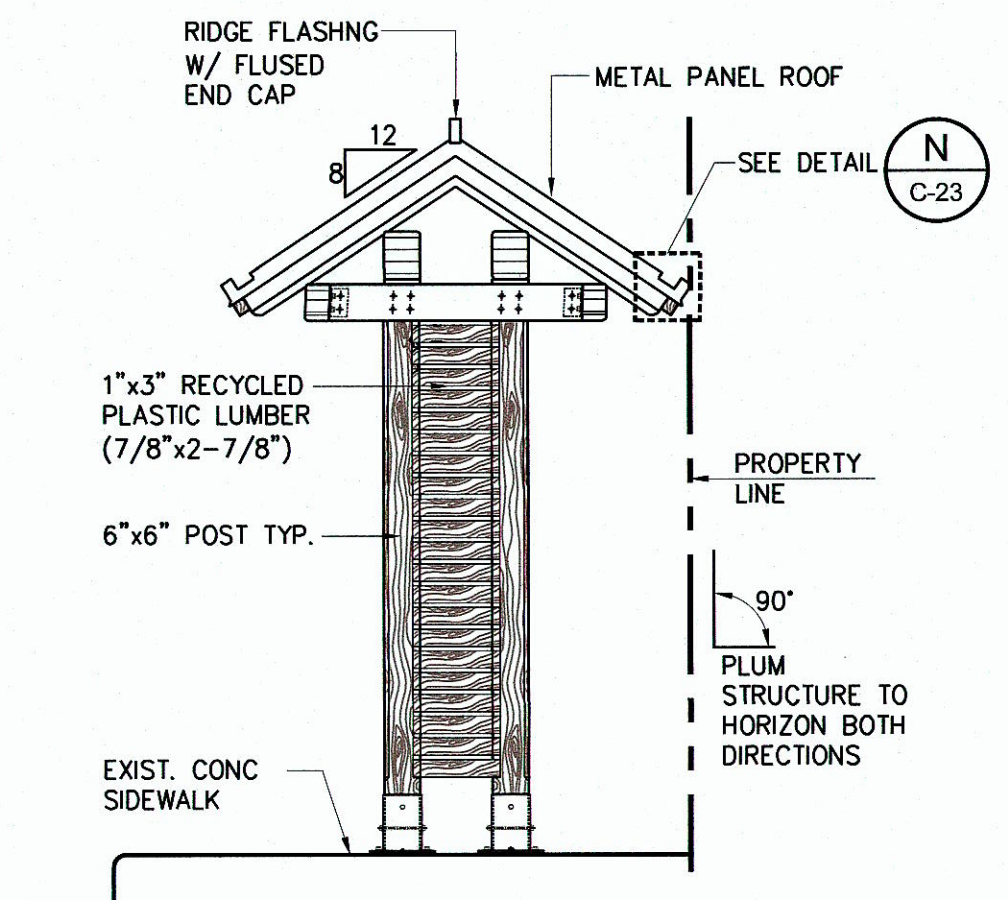
"AS-BUILT"



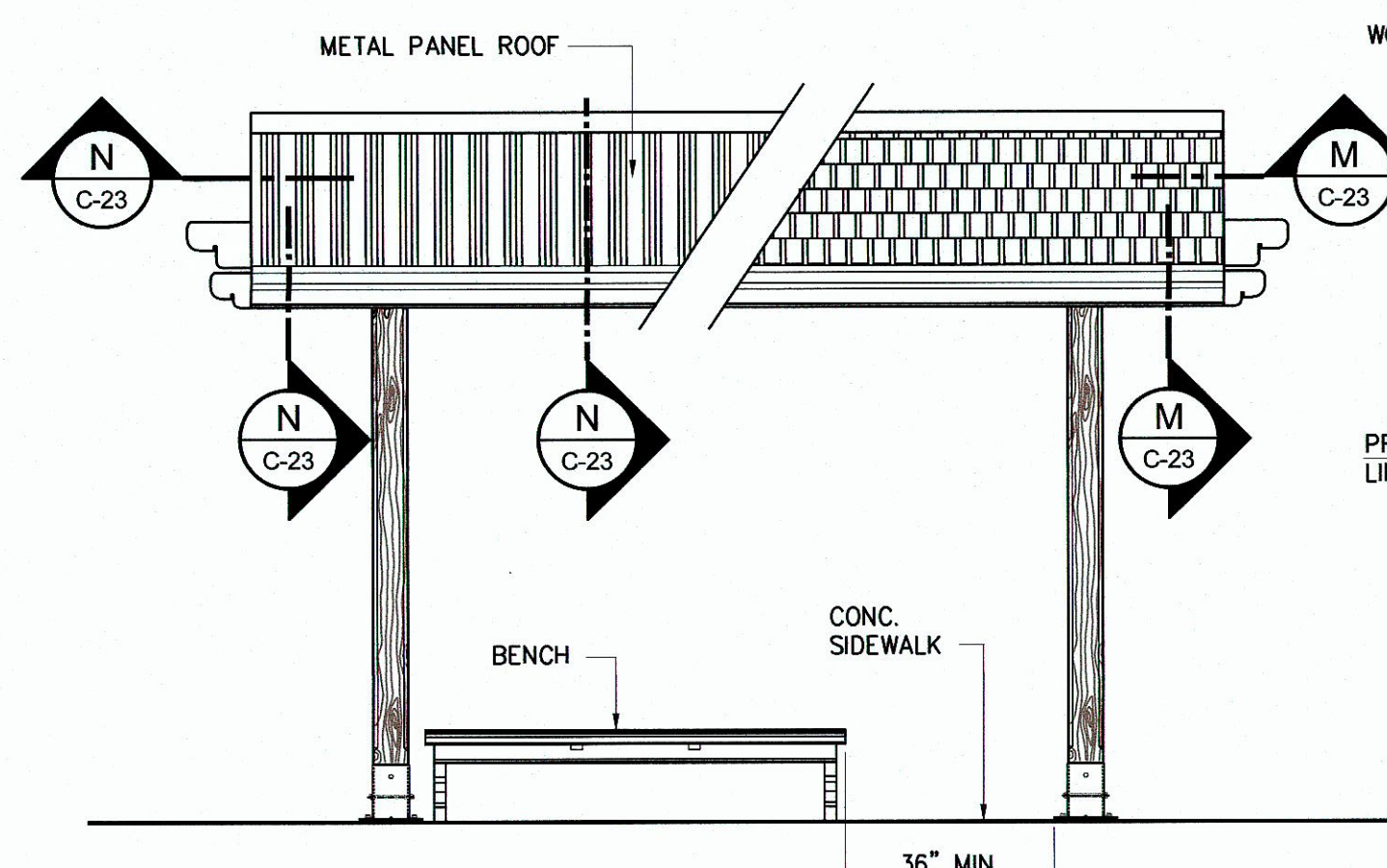
A FLOOR PLAN
C-23 SCALE: 3/8" = 1' - 0"



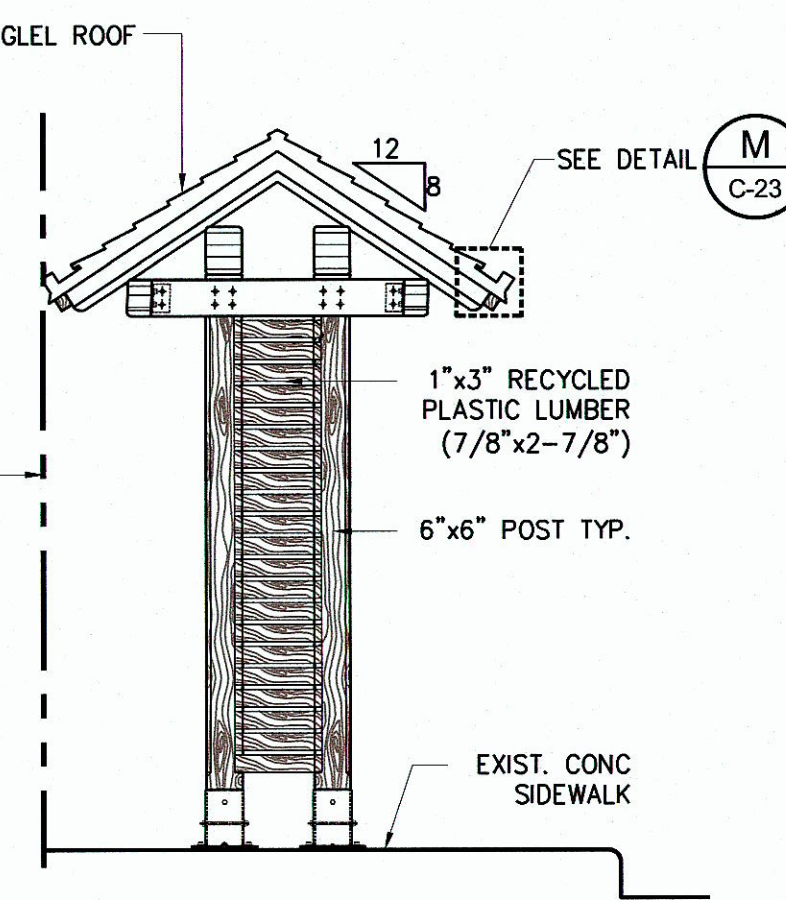
B ROOF FRAMING PLAN
C-23 SCALE: 3/8" = 1' - 0"



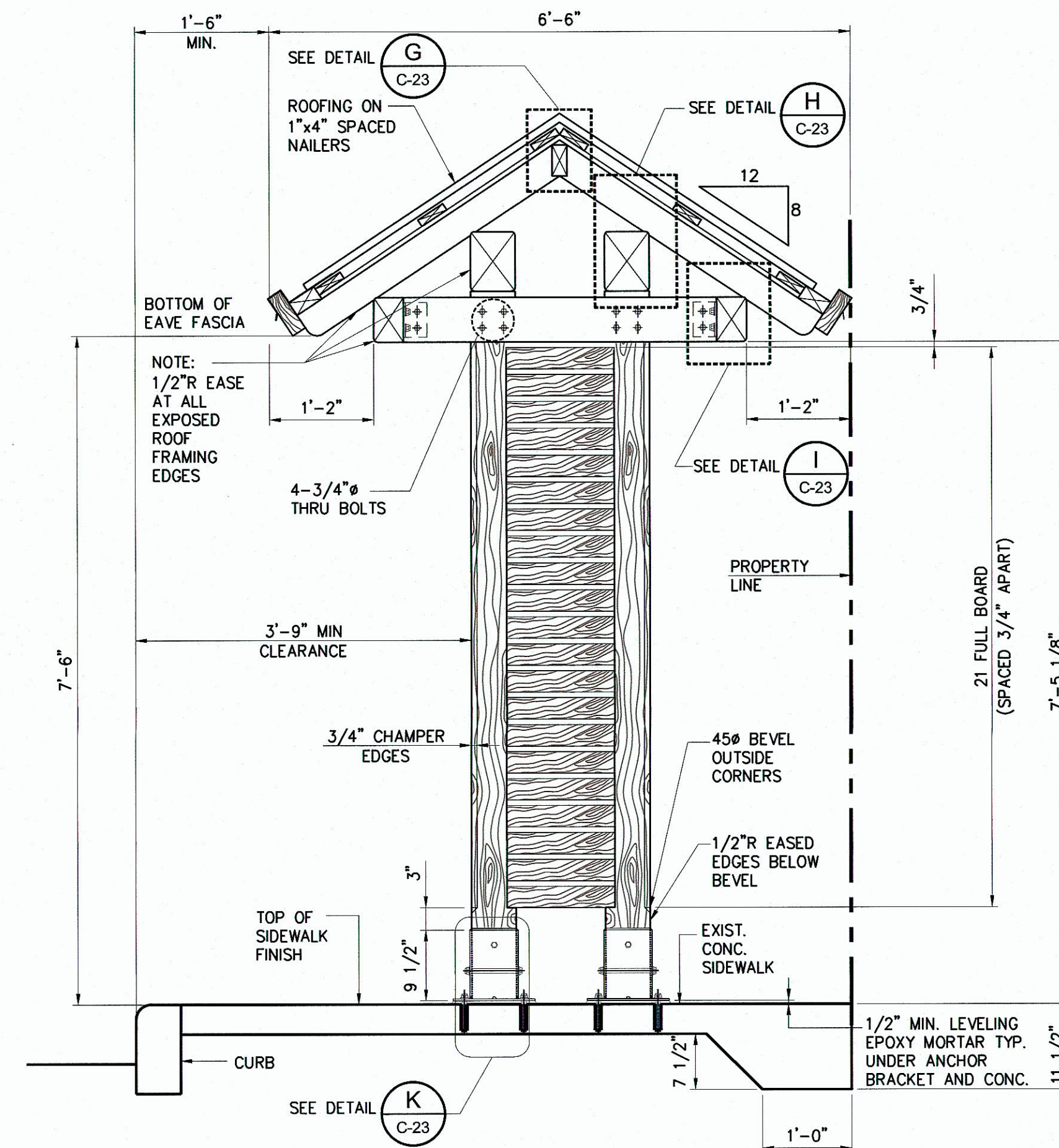
C TYP. END ELEV.
C-23 SCALE: 3/8" = 1' - 0"



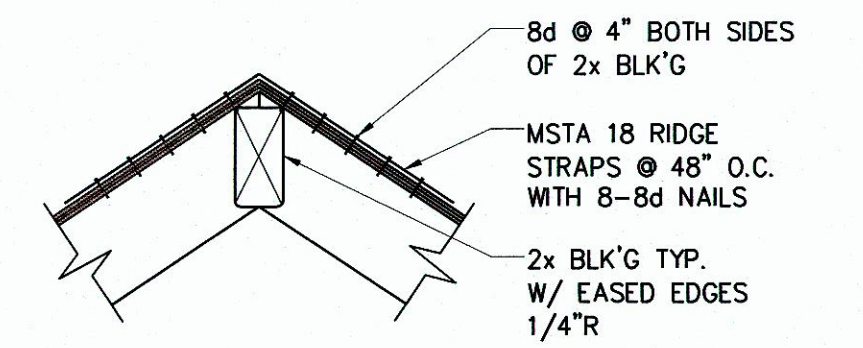
D FRONT ELEV. & REAR SIMILAR
C-23 SCALE: 3/8" = 1' - 0"



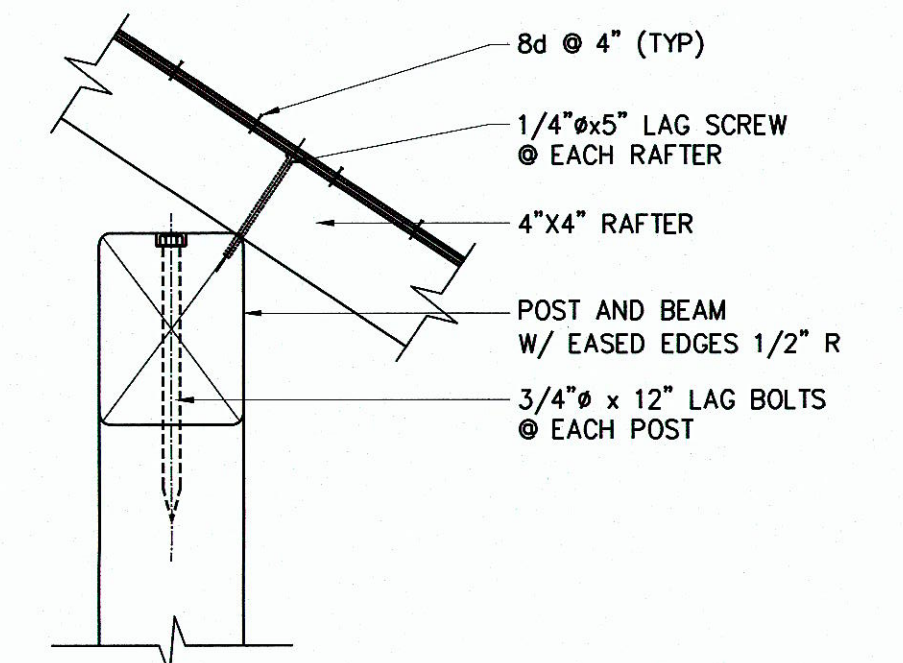
E TYP. END ELEV.
C-23 SCALE: 3/8" = 1' - 0"



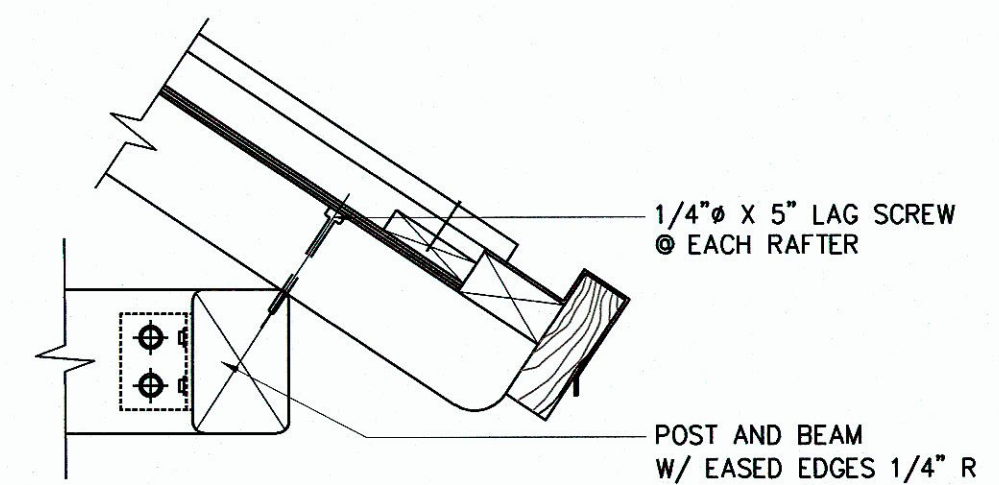
F SECTION
C-23 SCALE: 3/4" = 1' - 0"



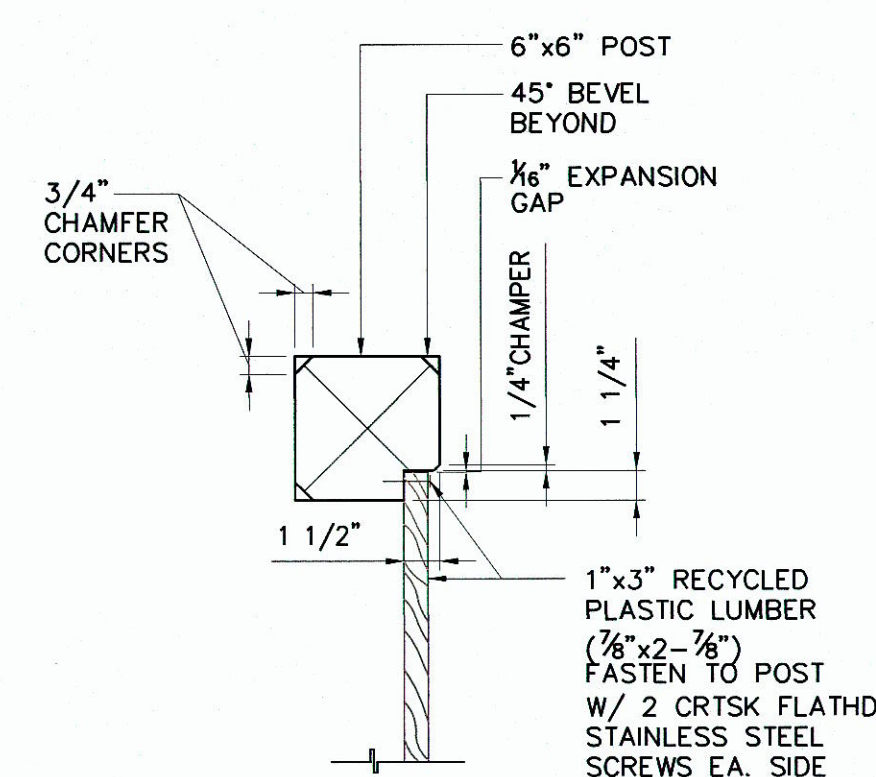
G RIDGE ANCHORING
C-23 SCALE: 1-1/2" = 1' - 0"



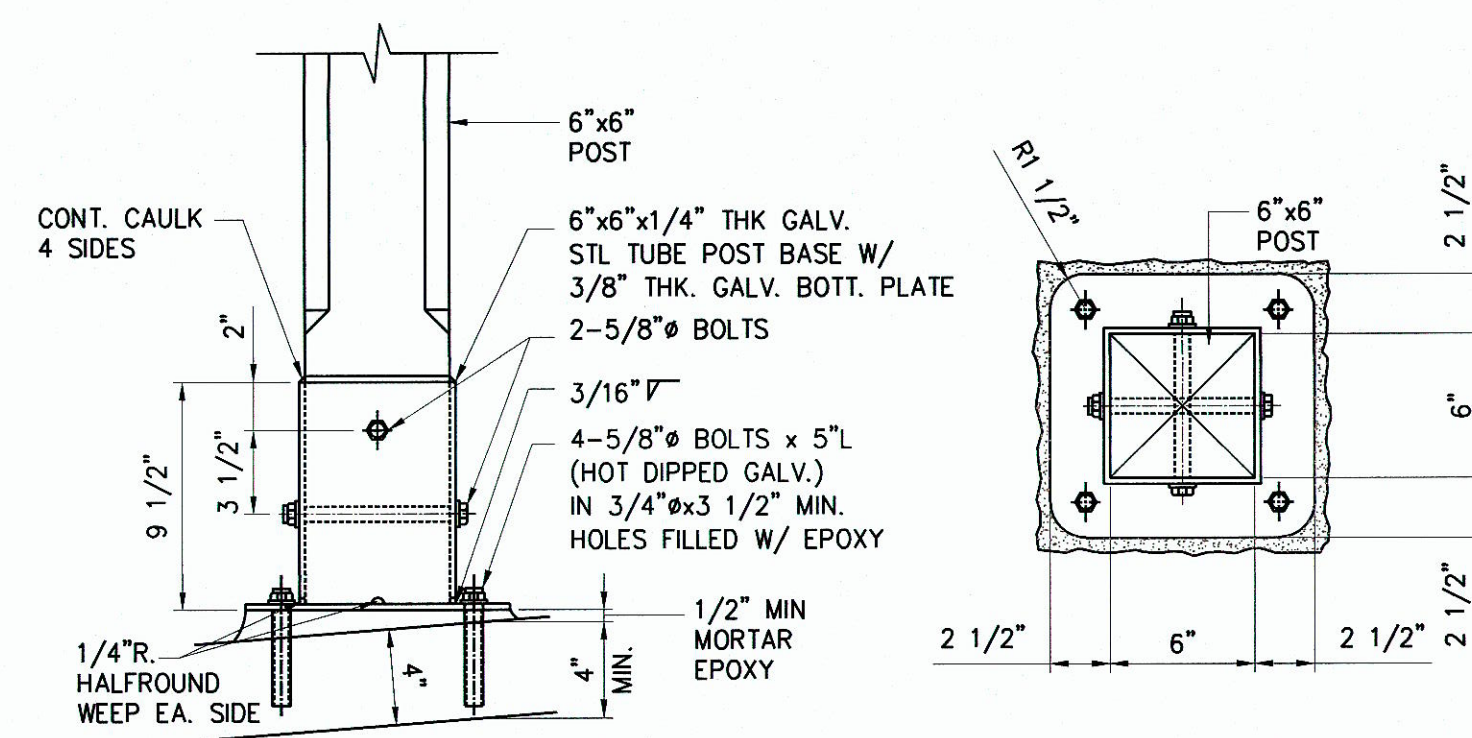
H RAFTER BEAM CONNECTION
C-23 SCALE: 1-1/2" = 1' - 0"



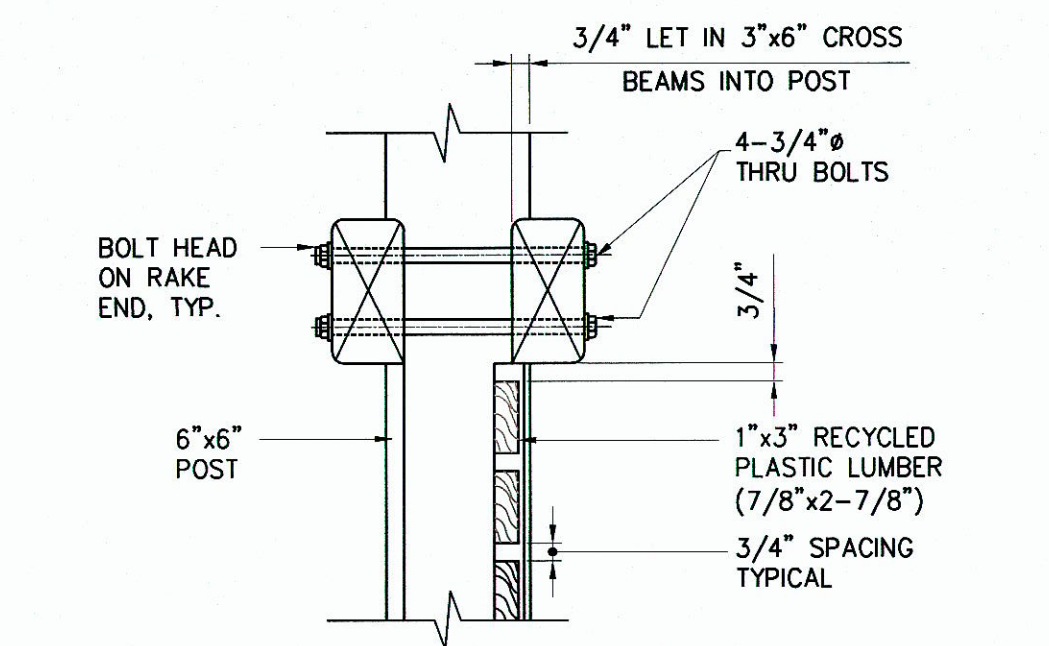
I RAFTER/EAVE BEAM CONNECTION
C-23 SCALE: 1-1/2" = 1' - 0"



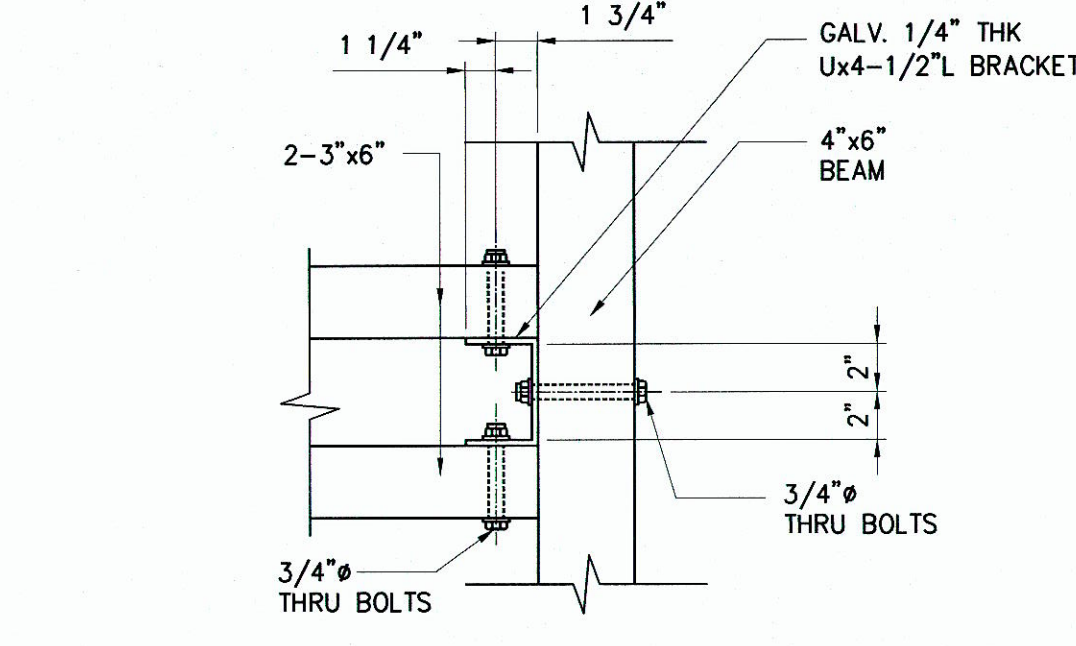
J SIDE PANEL DETAIL
C-23 SCALE: 1-1/2" = 1' - 0"



K POST ANCHOR DETAIL
C-23 SCALE: 1-1/2" = 1' - 0"



L CROSS BEAMS/POST CONNECTION
C-23 SCALE: 1-1/2" = 1' - 0"

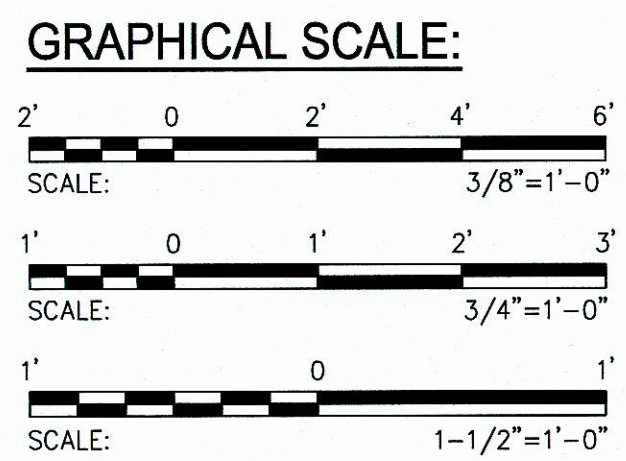


M CROSS BEAMS/EAVE BEAMS CONNECTION
C-23 SCALE: 1-1/2" = 1' - 0"

NOTES:
DESIGN LOADS: 20 PSF
ROOF LIVE LOAD: 80 MPH, EXPOSURE D PER UBC 1994
WIND VELOCITY: ZONE 2A, PER UBC 1994
SEISMIC:

AS-BUILT DRAWINGS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details, and specifications as constructed in the field.
KAIKOR CONSTRUCTION CO., INC.
DATE: 7/27/20

1 TYPE "B" SHELTER
C-23 SCALE: 3/8" = 1' - 0"

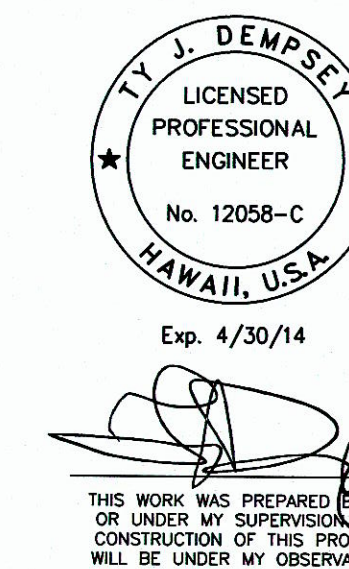
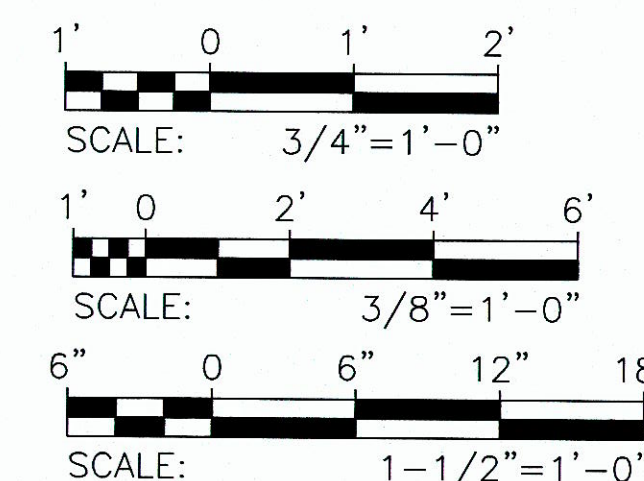
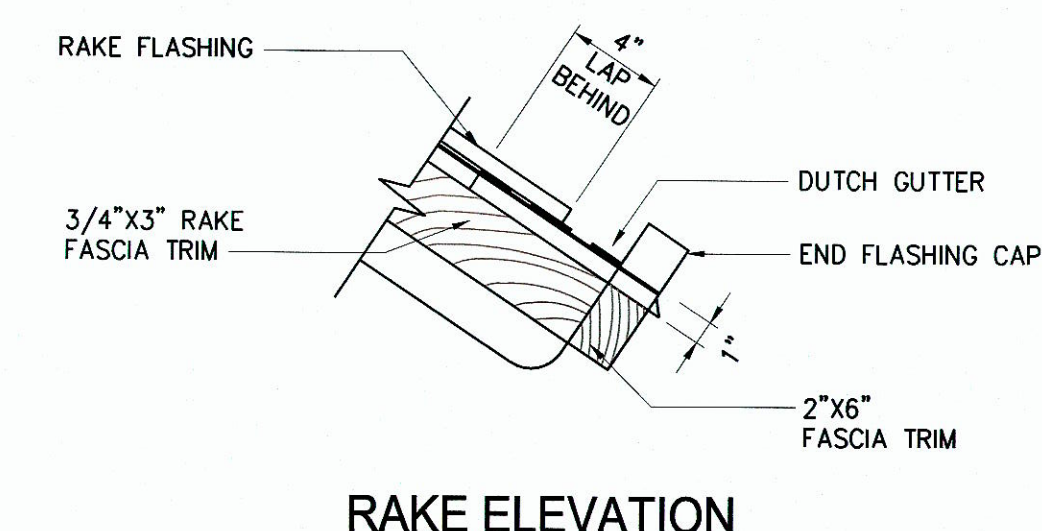
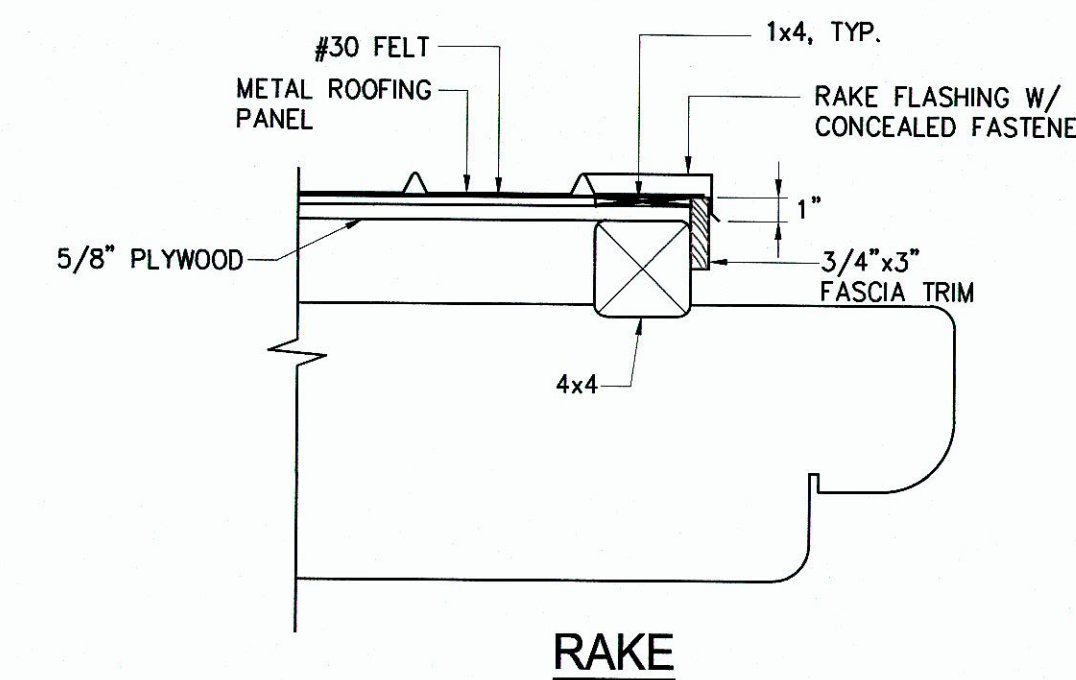
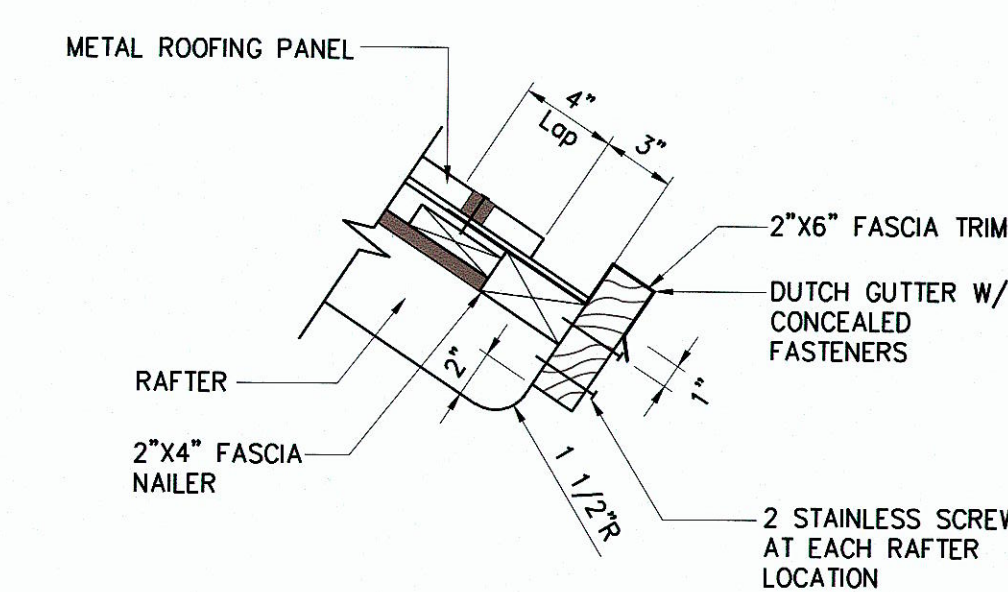
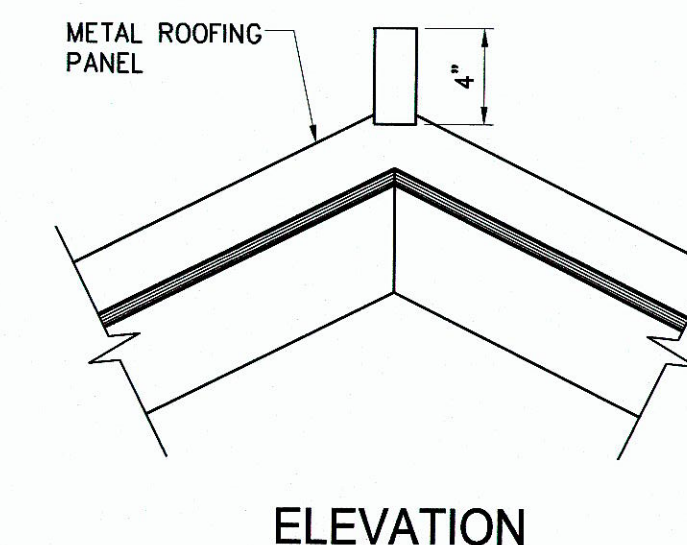
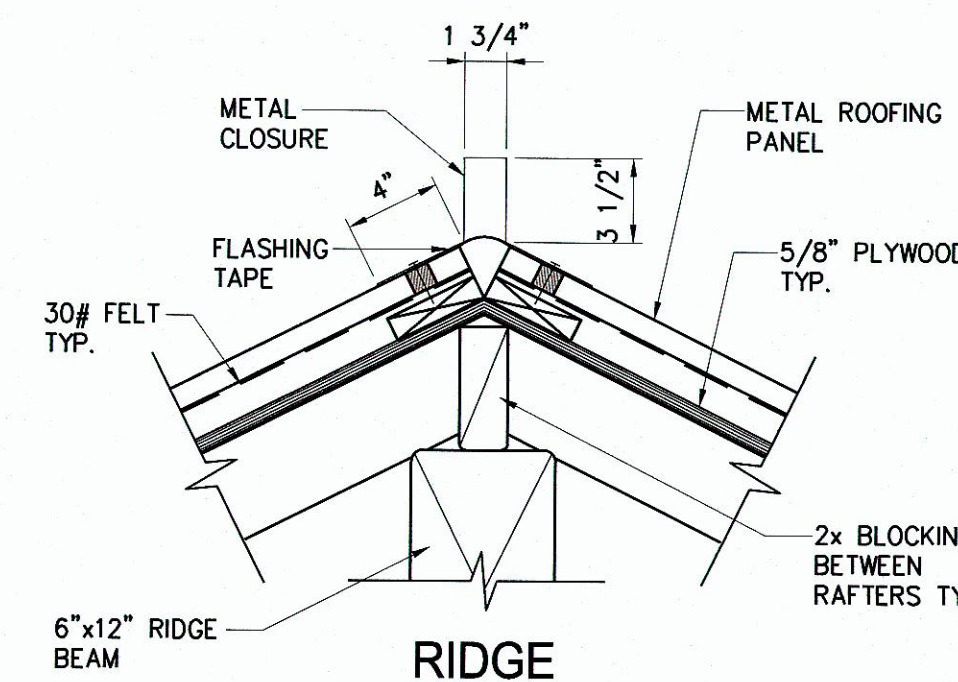
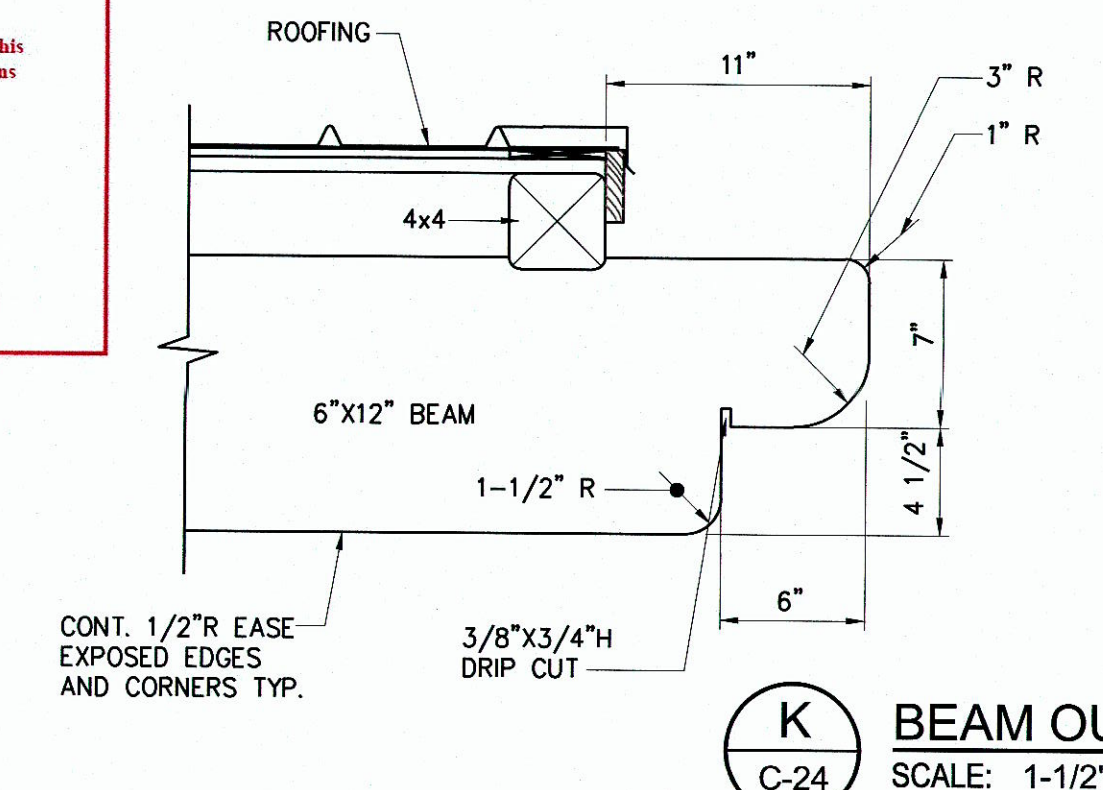
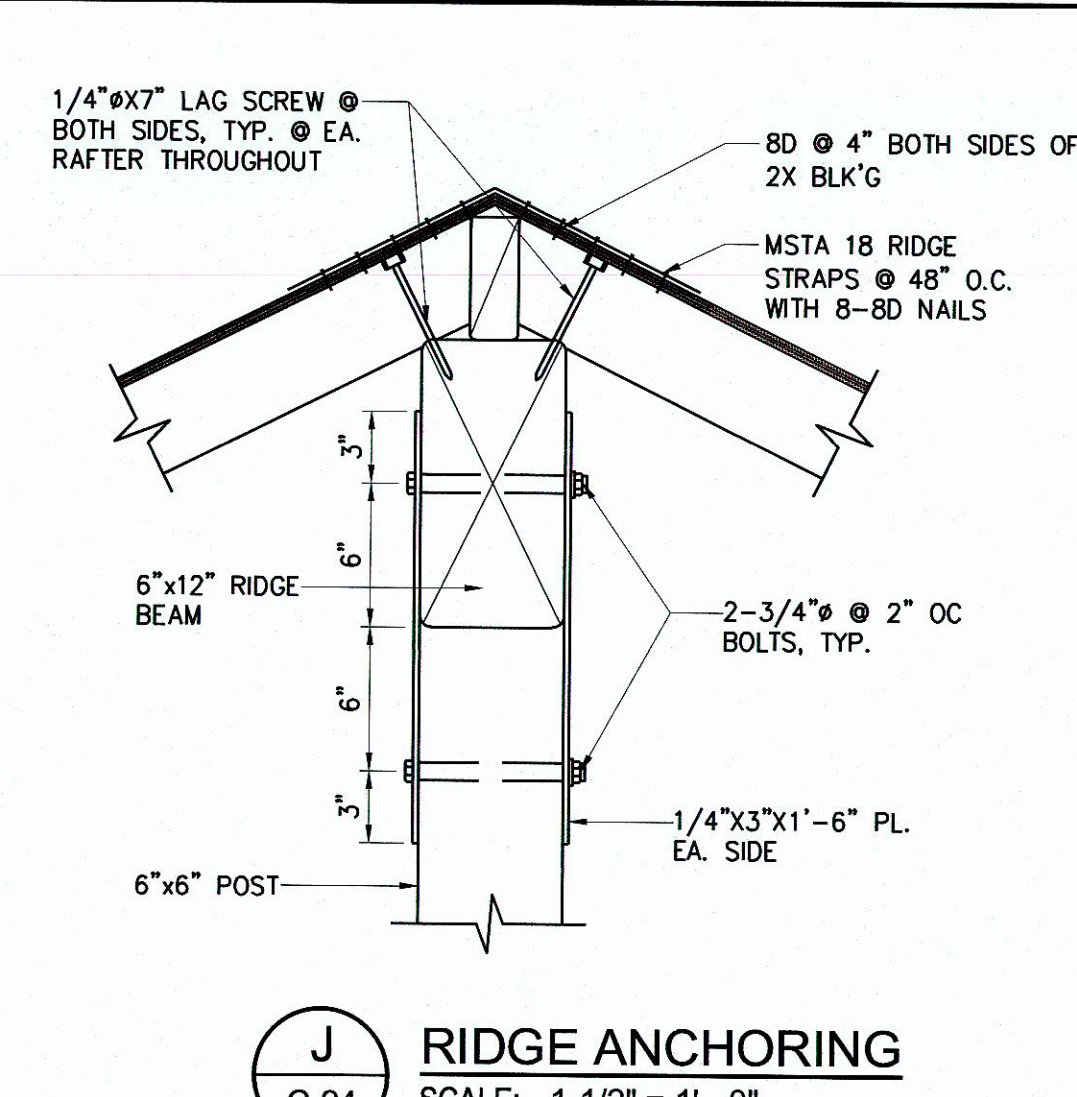
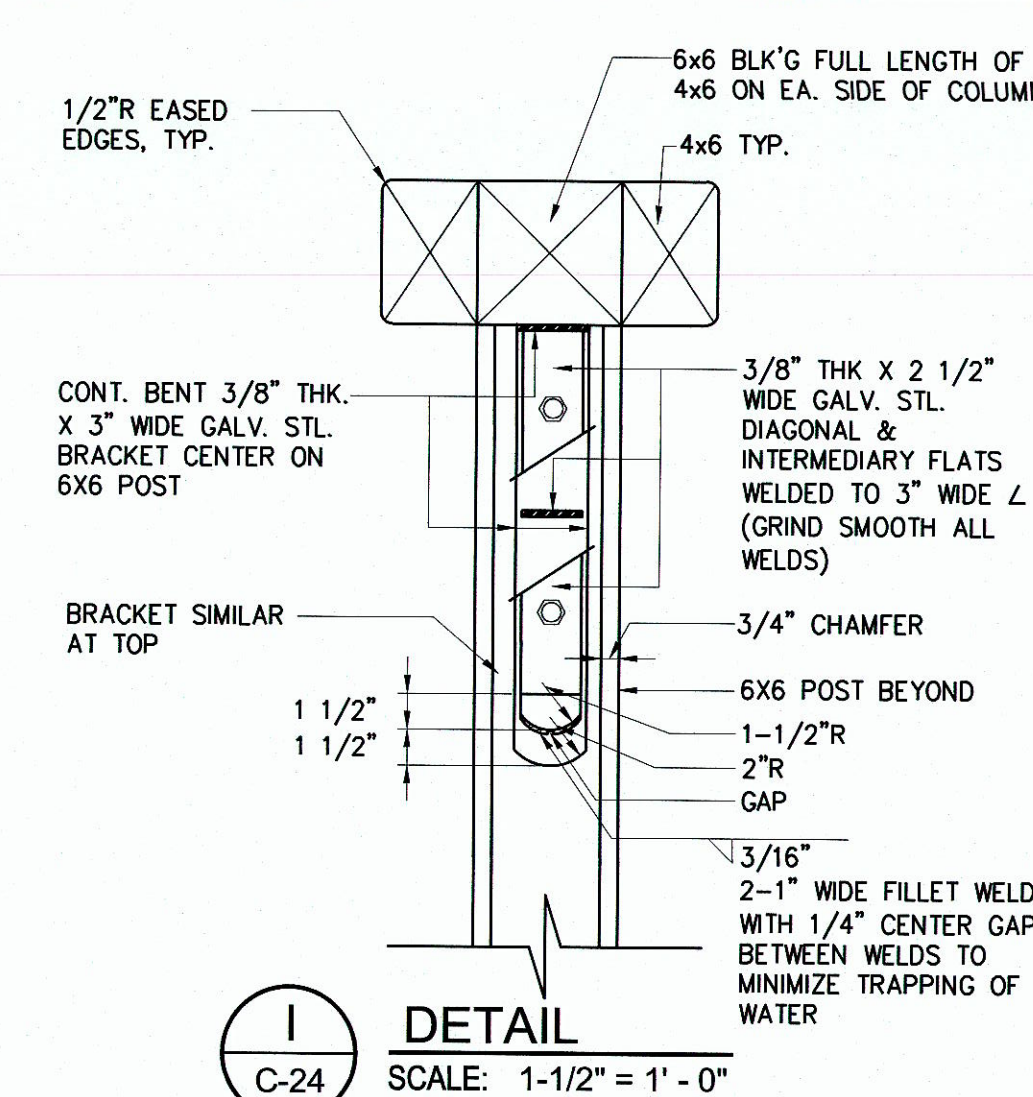
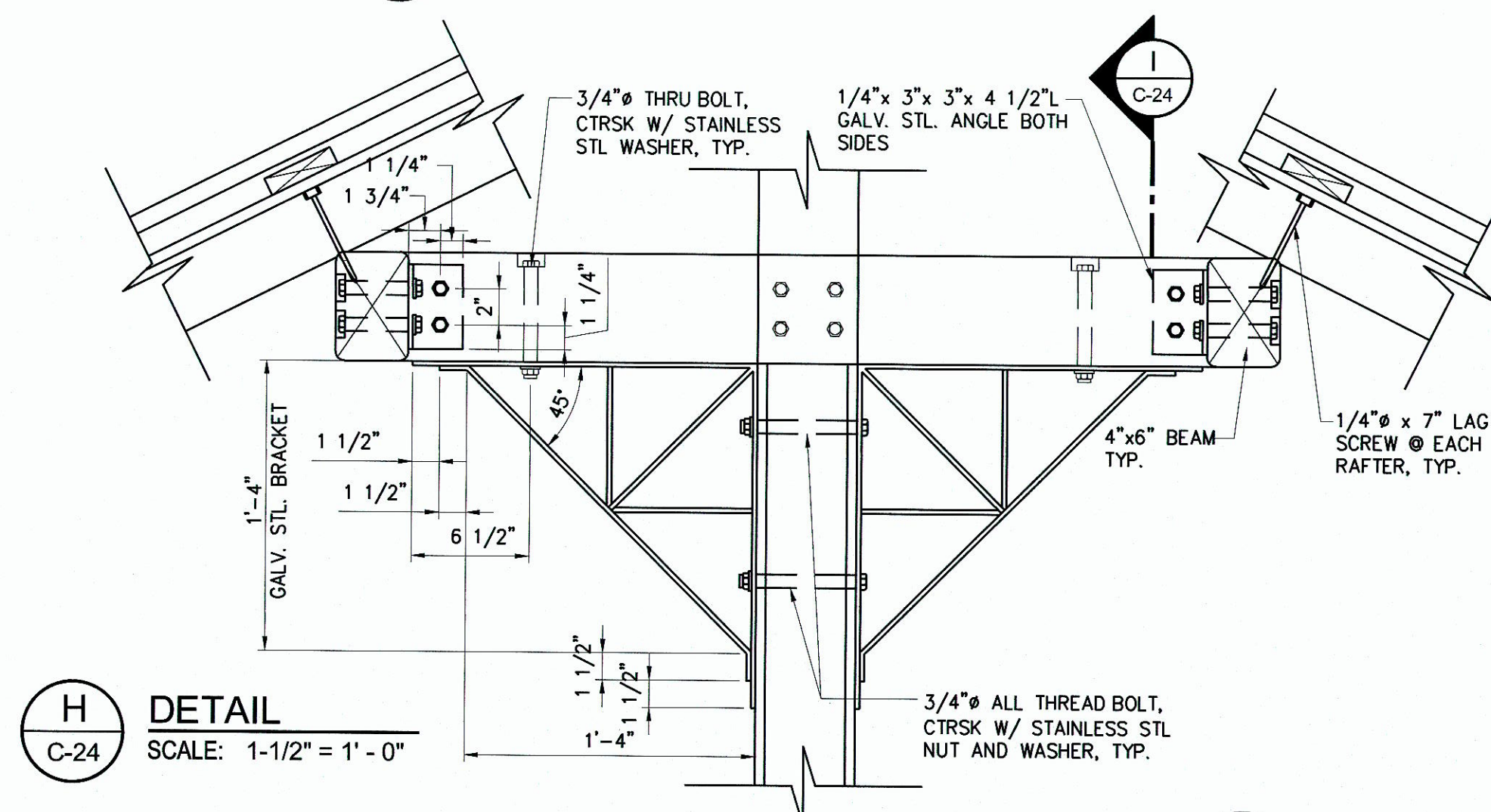
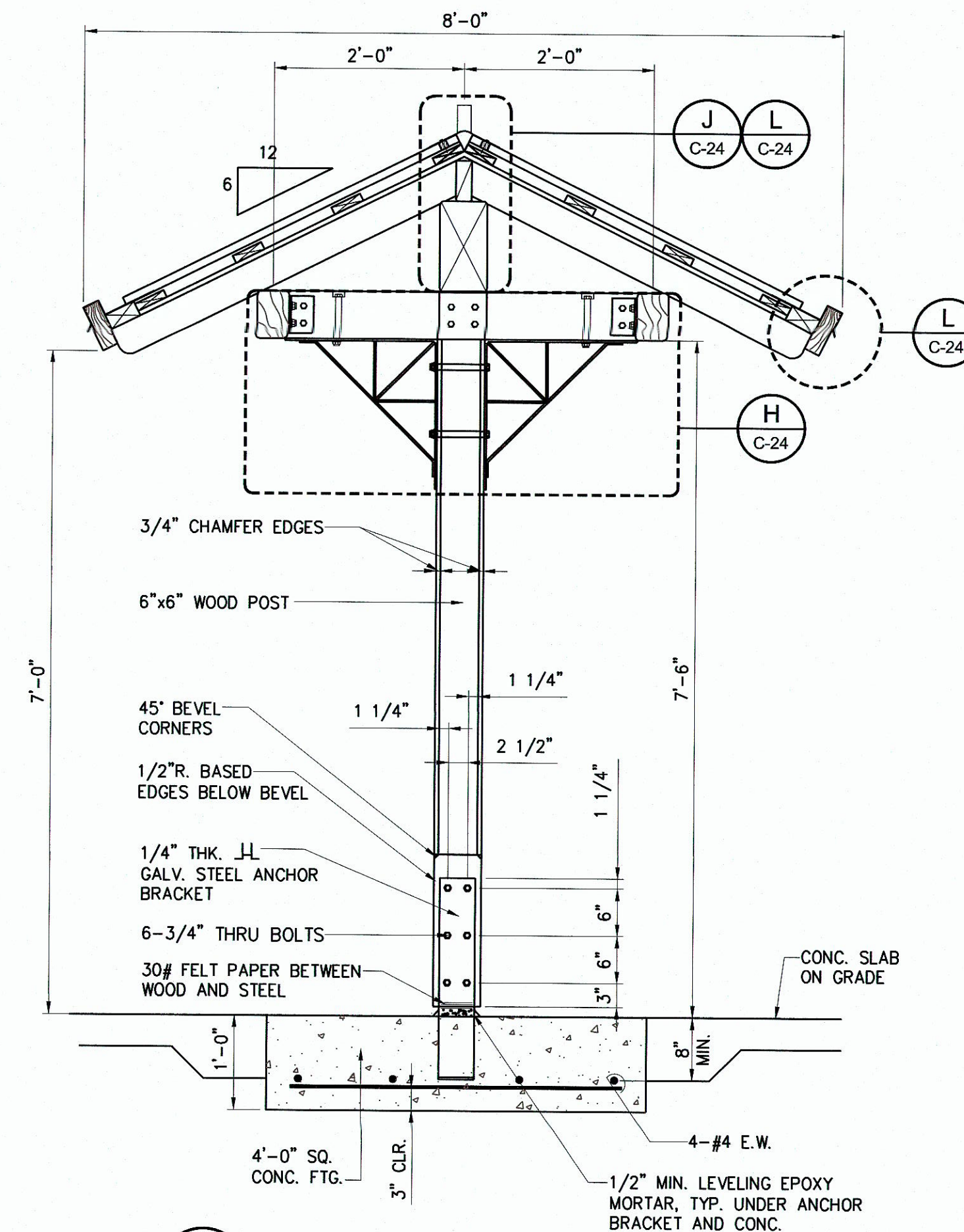
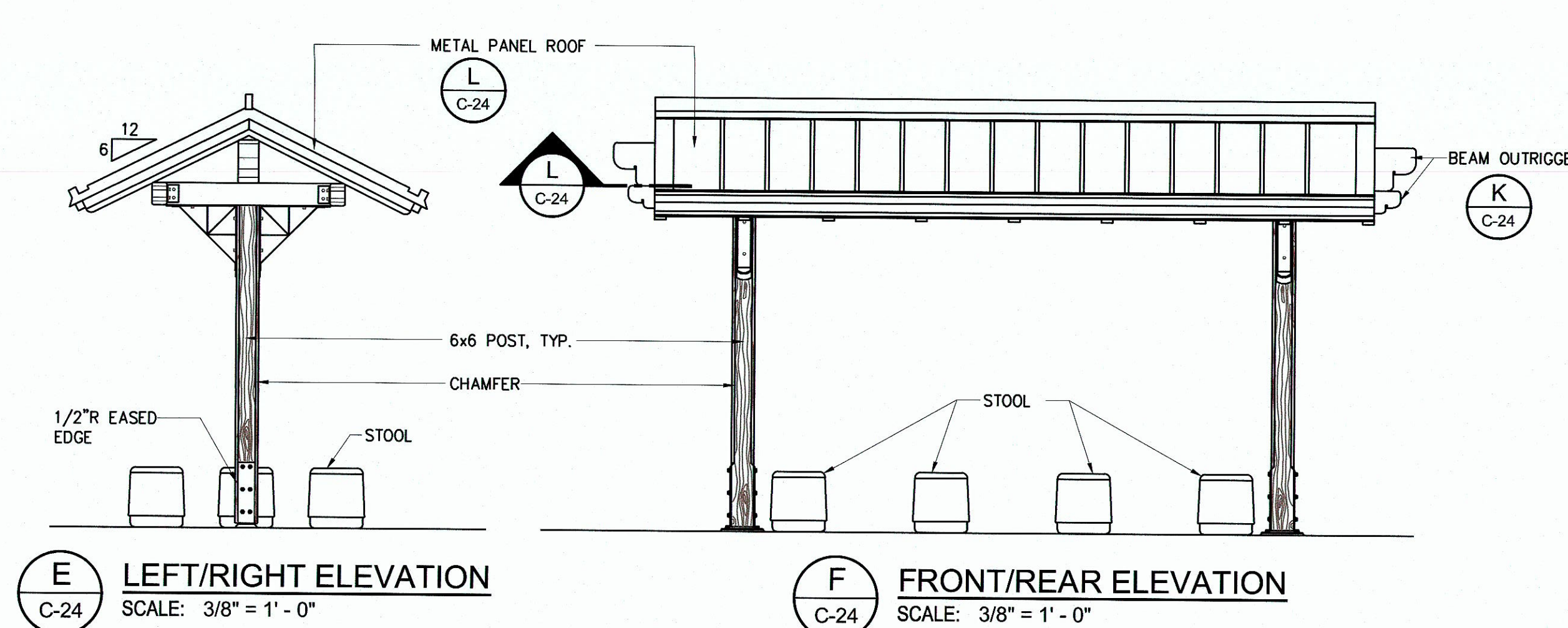
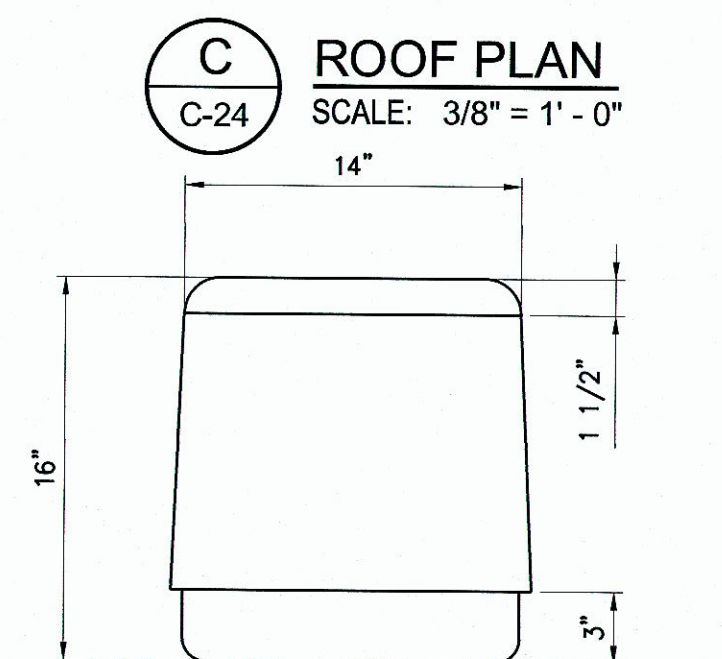
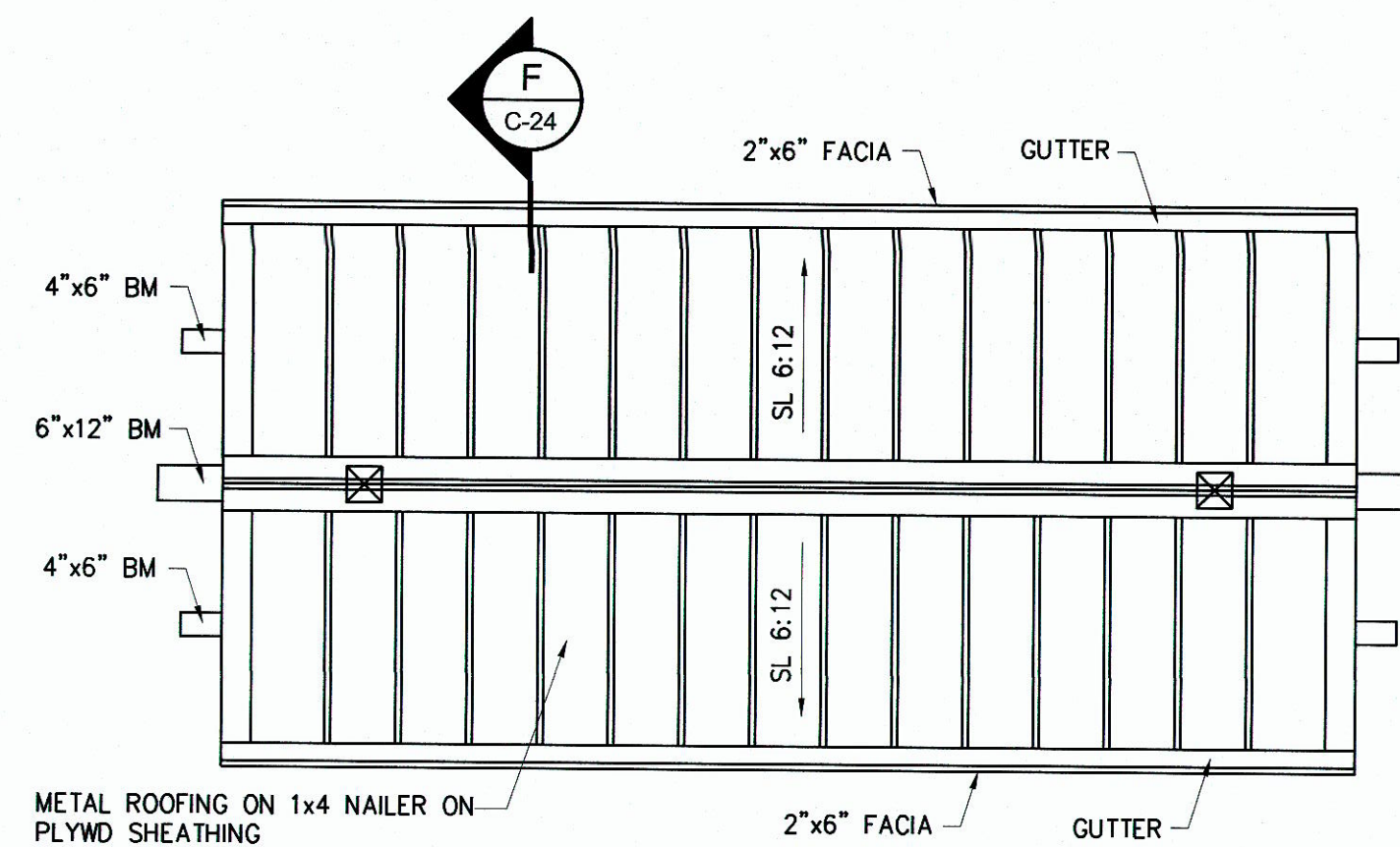
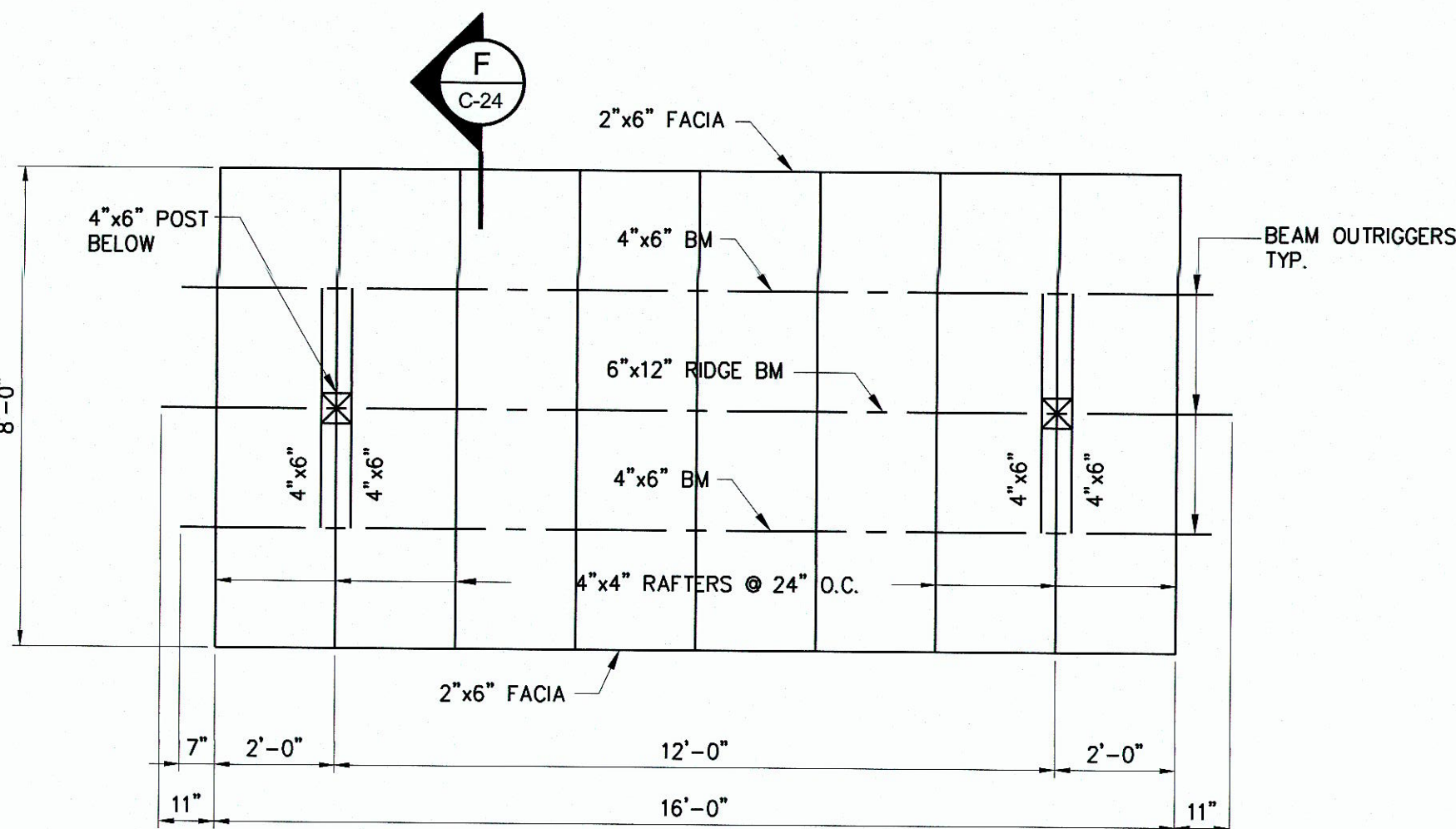
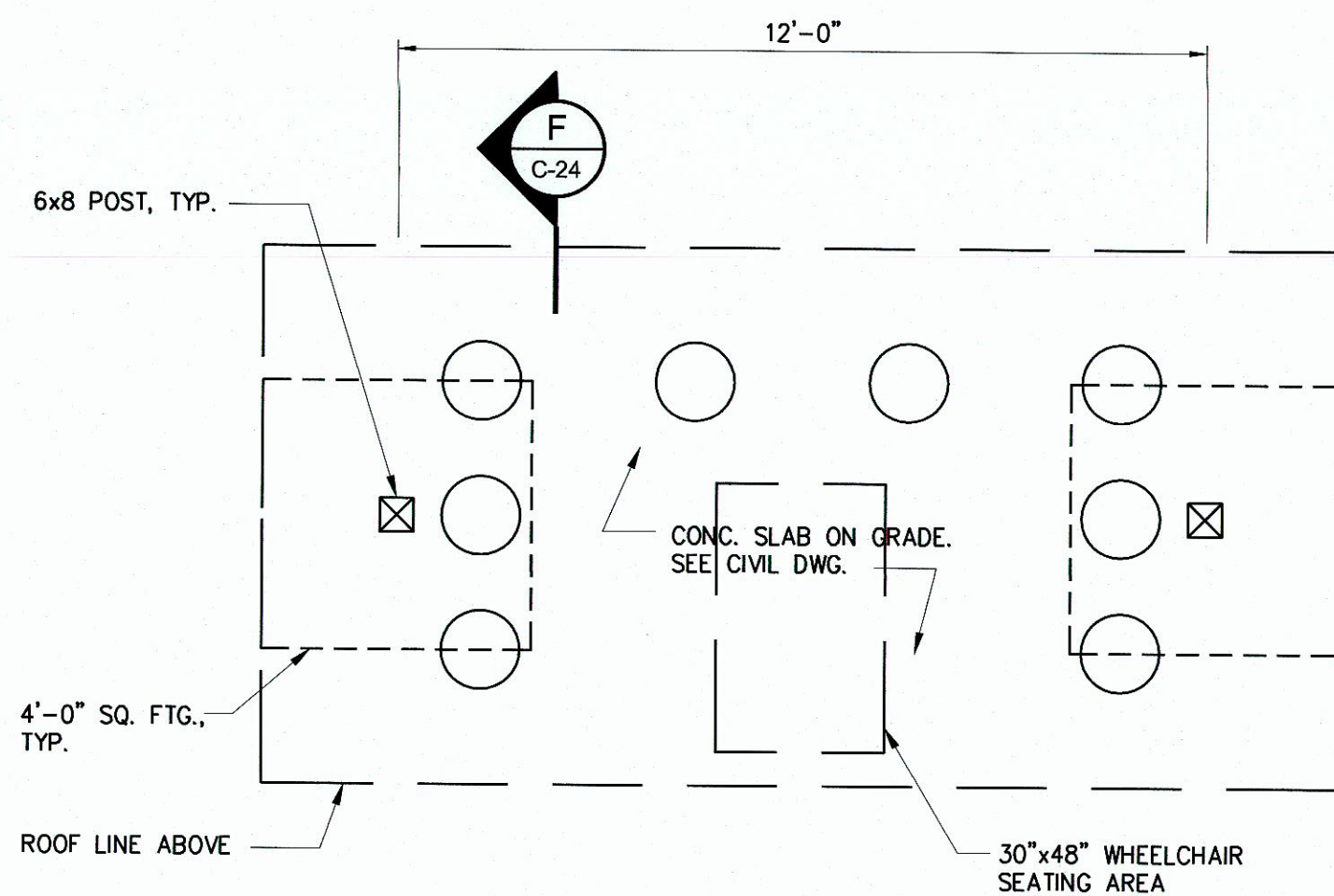


J. J. DEMPSEY
LICENSED PROFESSIONAL ENGINEER
No. 12058-C
HAWAII, U.S.A.
Exp. 4/30/14
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DEPARTMENT OF TRANSPORTATION SERVICES CITY AND COUNTY OF HONOLULU			
BUS STOP ADA ACCESSIBILITY IMPROVEMENTS PHASE VI (KALIHI TO MILILANI) HONOLULU, OAHU, HAWAII			
TYPE "B" BUS SHELTER DETAILS			
DESIGN: RF	APPROVED:	SHEET No. C-23 OF 42 SHEETS	
DRAWN: DG	DIRECTOR, DEPARTMENT OF TRANSPORTATION SERVICES, DTS DATE (FOR WORK WITHIN THE CITY RIGHT OF WAY)		
CHECKED: EL/MY/ET	ADMINISTRATOR, HIGHWAYS DIVISION, DOT DATE (FOR WORK WITHIN THE STATE RIGHT OF WAY)		
DATE: 03/26/13			
PROJECT NO. 3013.10	FILE DRAW FOLDER NUMBER		

IF THIS DRAWING IS LESS THAN
36" X 24"
IT IS A REDUCED PRINT.
ADJUST SCALE ACCORDINGLY

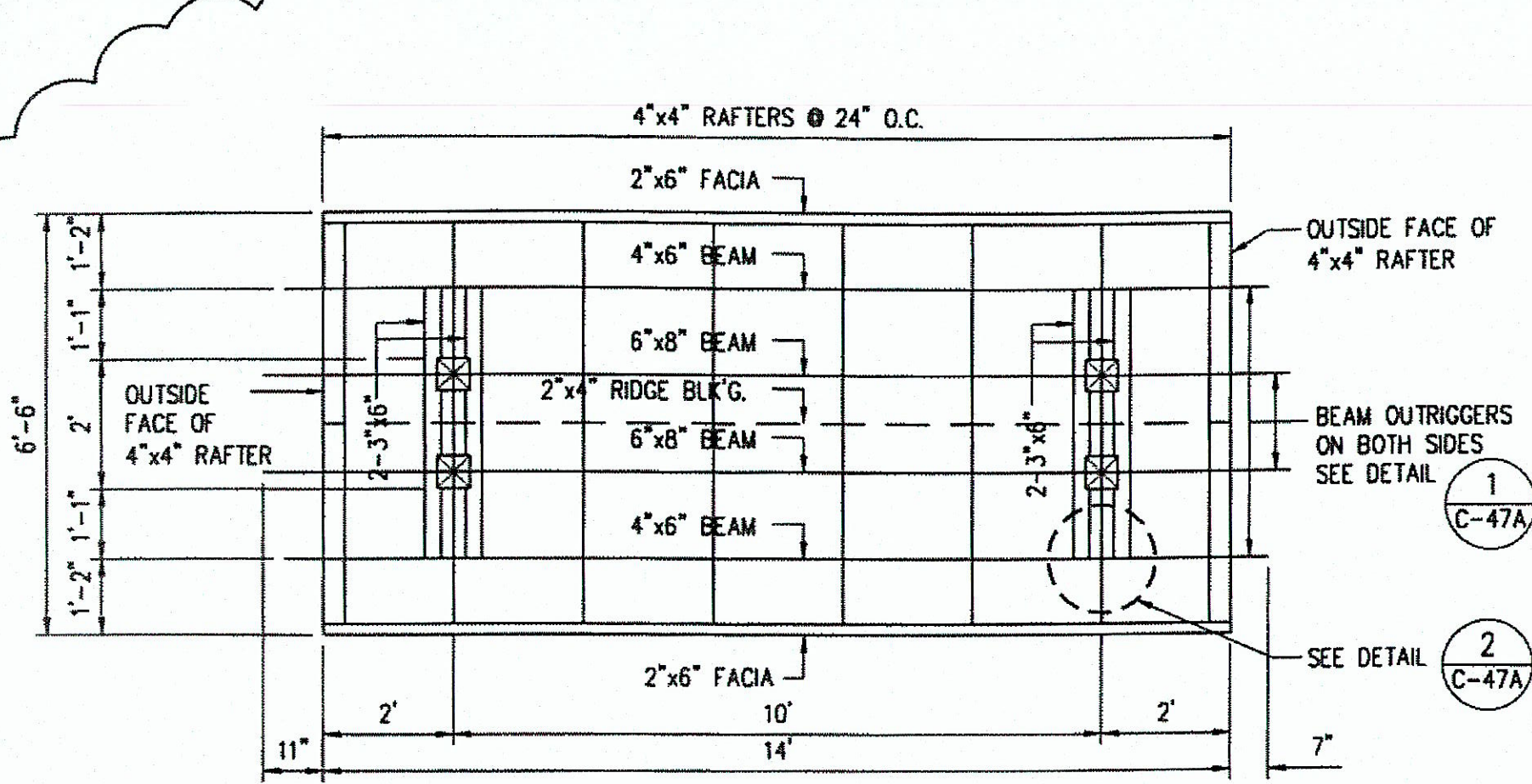
"AS-BUILT"



DEPARTMENT OF TRANSPORTATION SERVICES CITY AND COUNTY OF HONOLULU			
BUS STOP ADA ACCESSIBILITY IMPROVEMENTS PHASE VI (KALIHI TO MILILANI) HONOLULU, OAHU, HAWAII			
TYPE "C" BUS SHELTER DETAILS			
DESIGN: RF	APPROVED:	SHEET No. C-24	
DRAWN: GD	DIRECTOR, DEPARTMENT OF TRANSPORTATION SERVICES, DTS DATE (FOR WORK WITHIN THE CITY RIGHT OF WAY)	OF 42 SHEETS	
CHECKED: EL/MY/ET	ADMINISTRATOR, HIGHWAYS DIVISION, DOT (FOR WORK WITHIN THE STATE RIGHT OF WAY)	DATE	
DATE: 03/26/13		PROJECT NO. 3013.10	
		FILE DRAW FOLDER NUMBER	

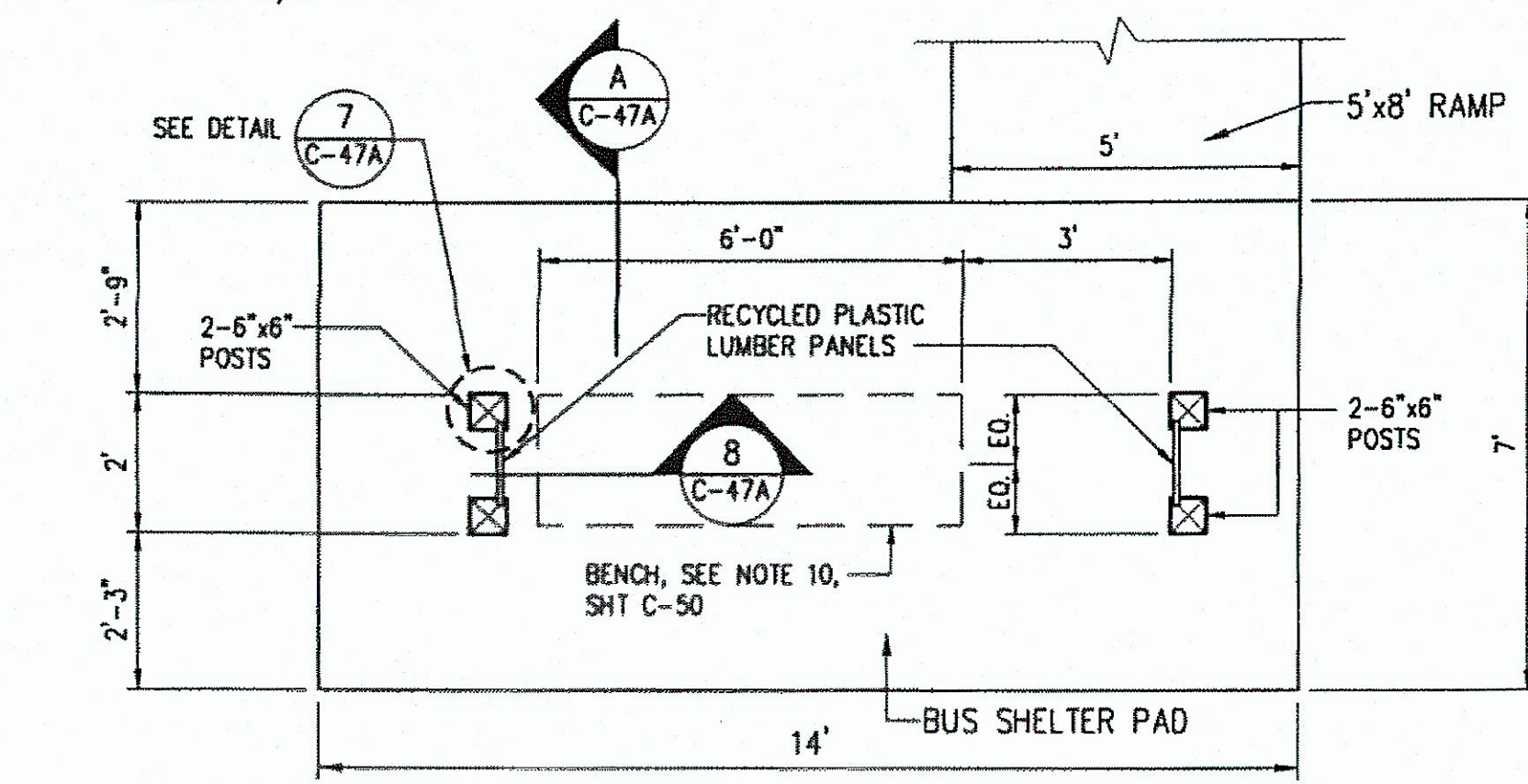
IF THIS DRAWING IS LESS THAN
36" x 24"
IT IS A REDUCED PRINT.
ADJUST SCALE ACCORDINGLY

"AS-BUILT"



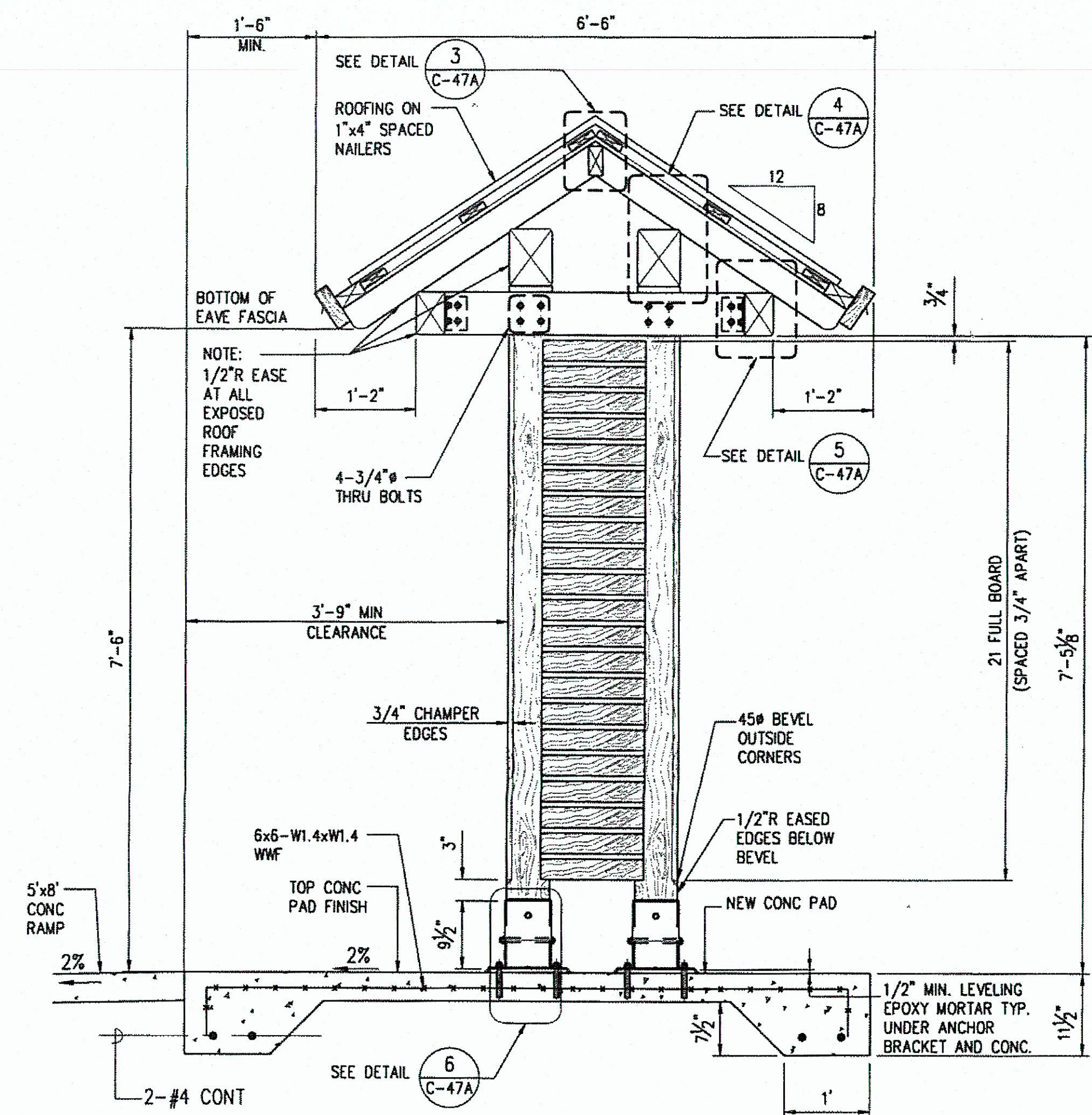
ROOF FRAMING PLAN

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

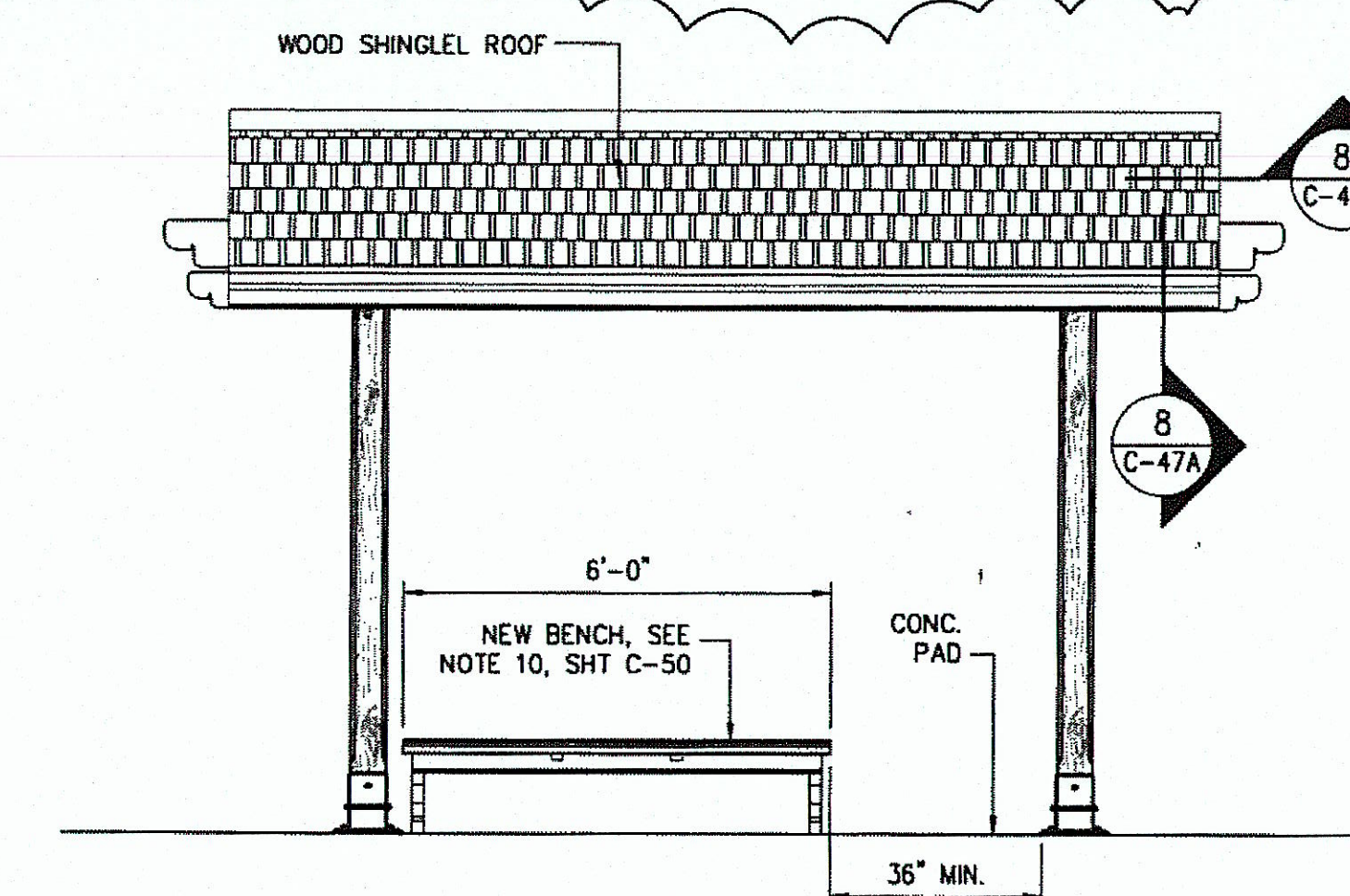


FLOOR PLAN

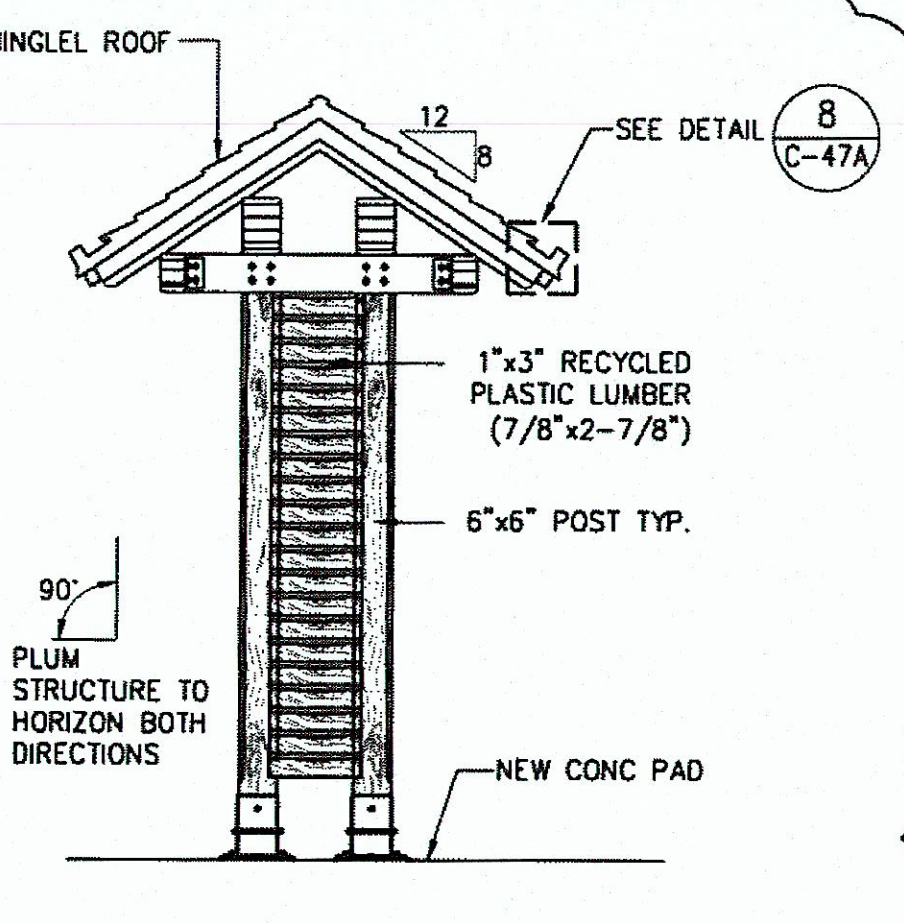
SCALE: 3/8"=1'-0"



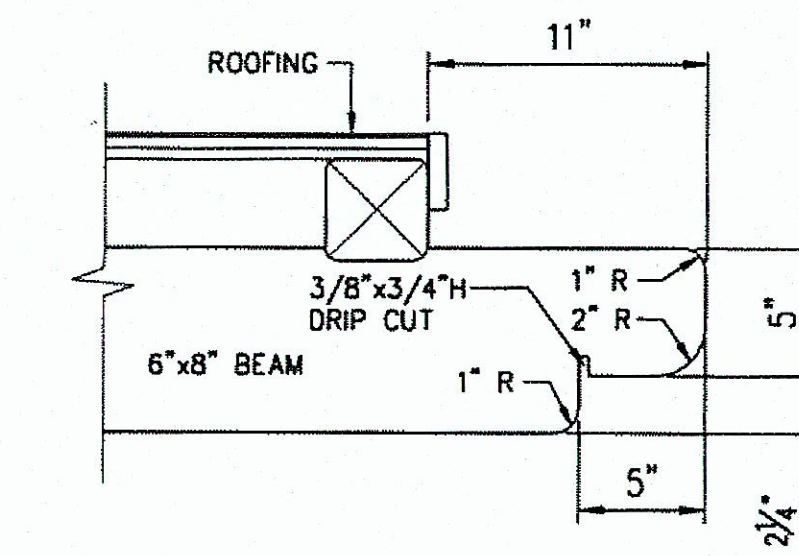
A SECTION
C-47A SCALE: 3/4"=1'-0"



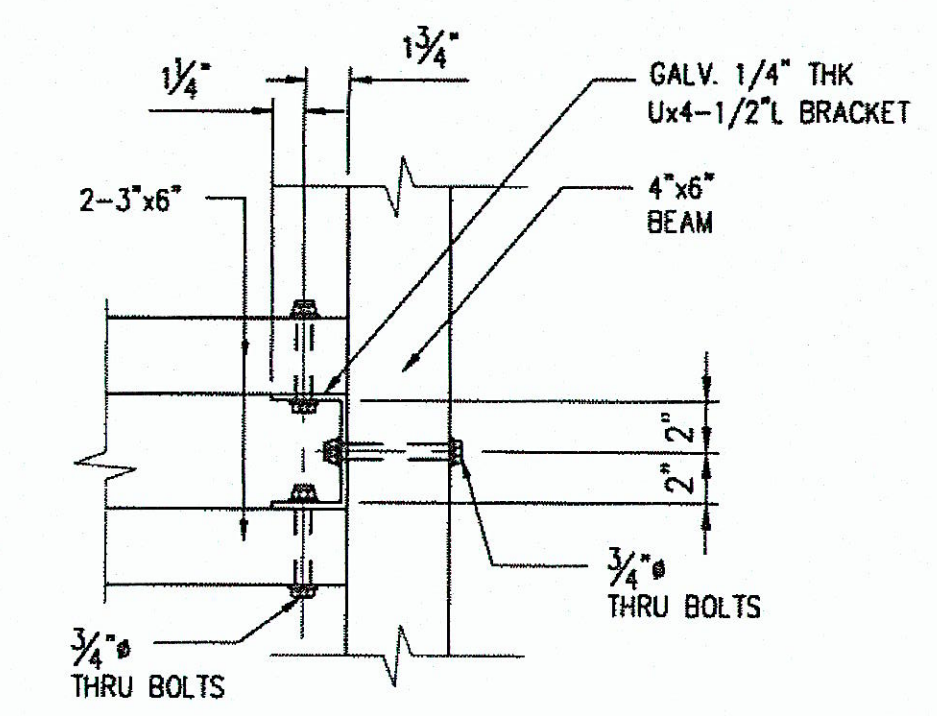
FRONT ELEVATION & REAR SIMILAR



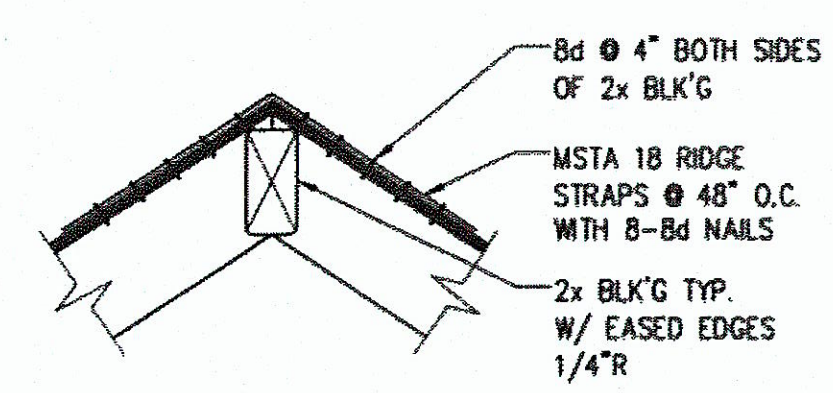
TYP. END ELEVATION



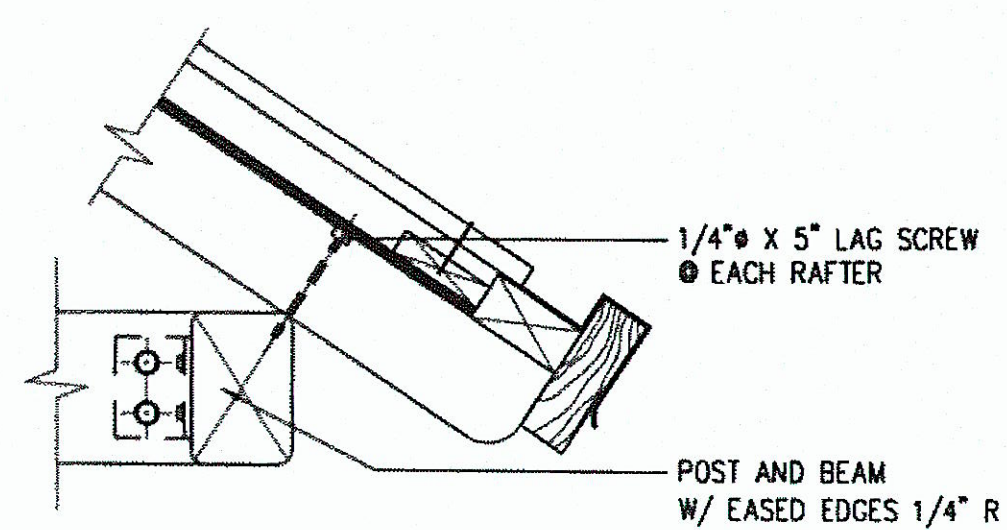
1 BEAM OUTRIGGER DETAIL
C-47A SCALE: 1-1/2"=1'-0"



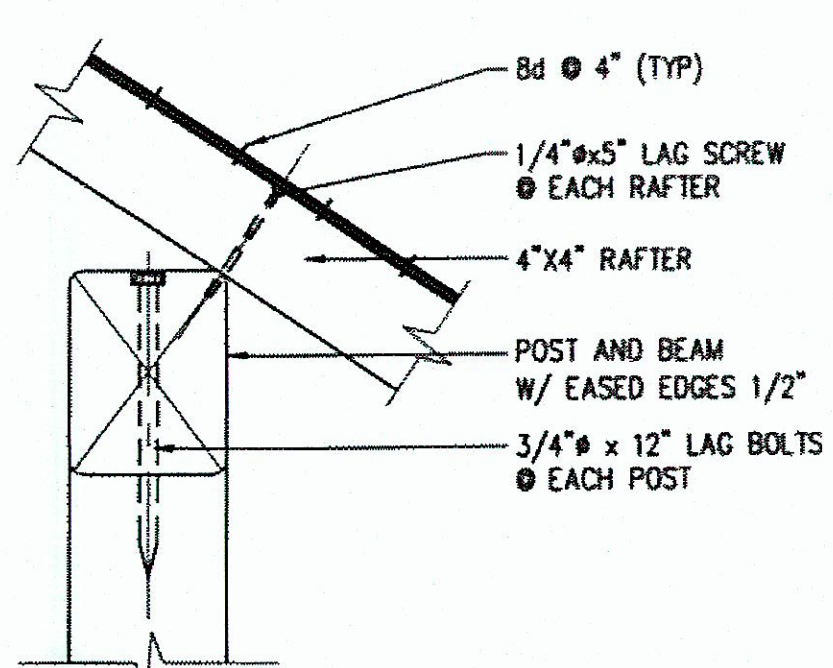
2 CROSS BEAMS/EAVE BEAMS CONNECTION
C-47A SCALE: 1-1/2"=1'-0"



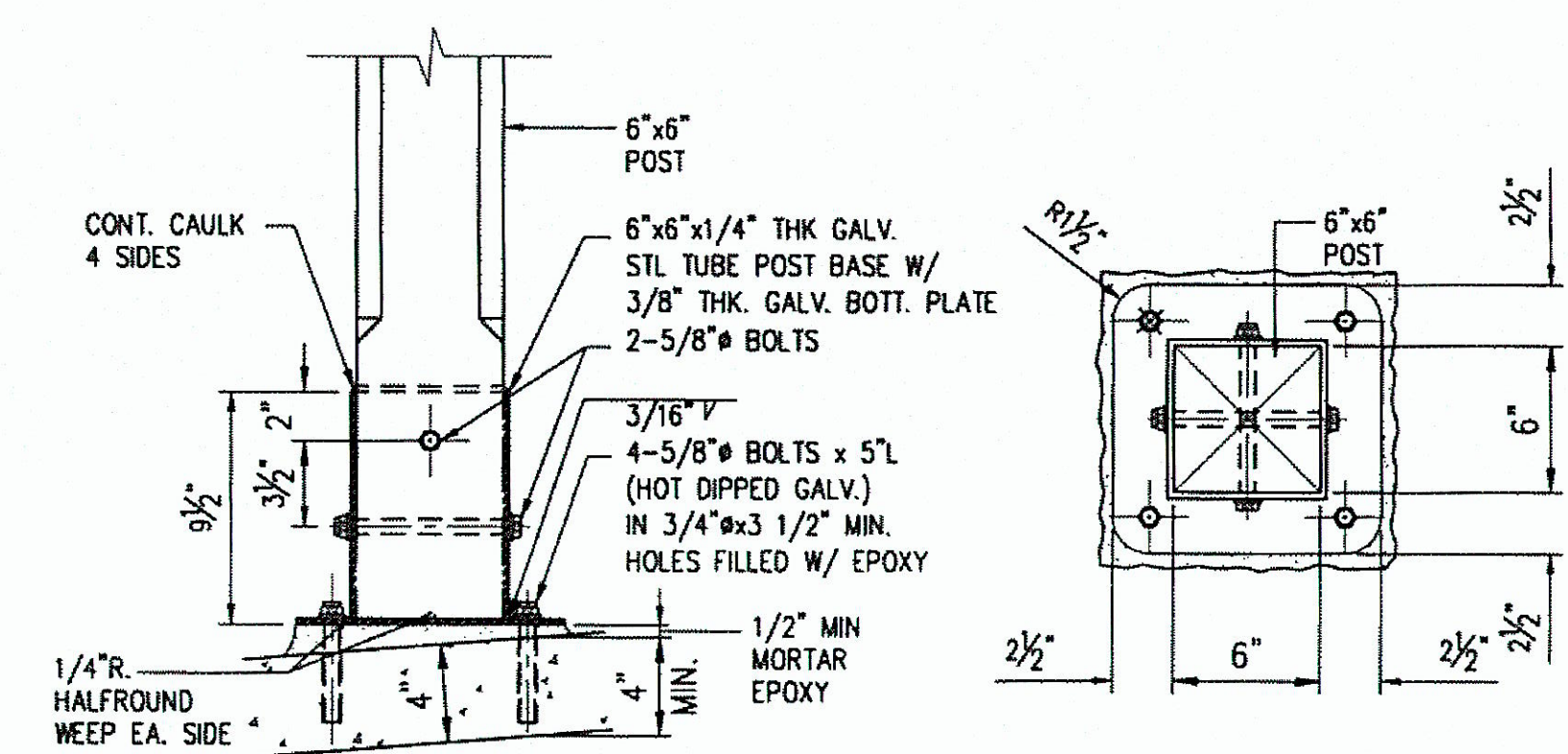
3 RIDGE ANCHORING
C-47A SCALE: 1-1/2"=1'-0"



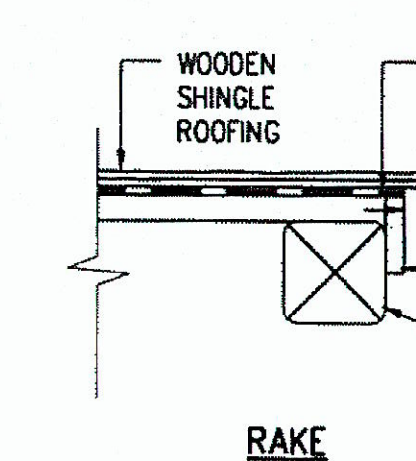
5 RAFTER/EAVE BEAM CONNECTION
C-47A SCALE: 1-1/2"=1'-0"



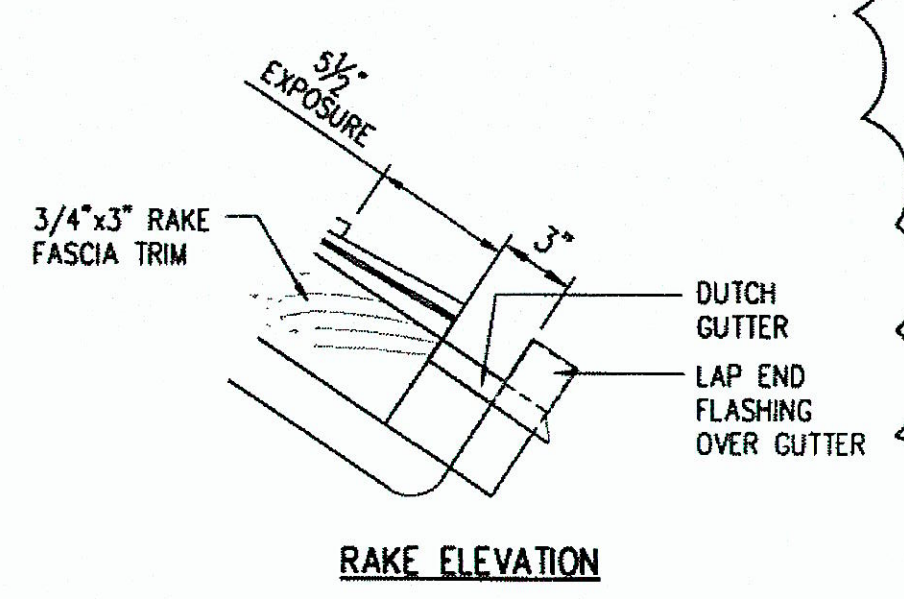
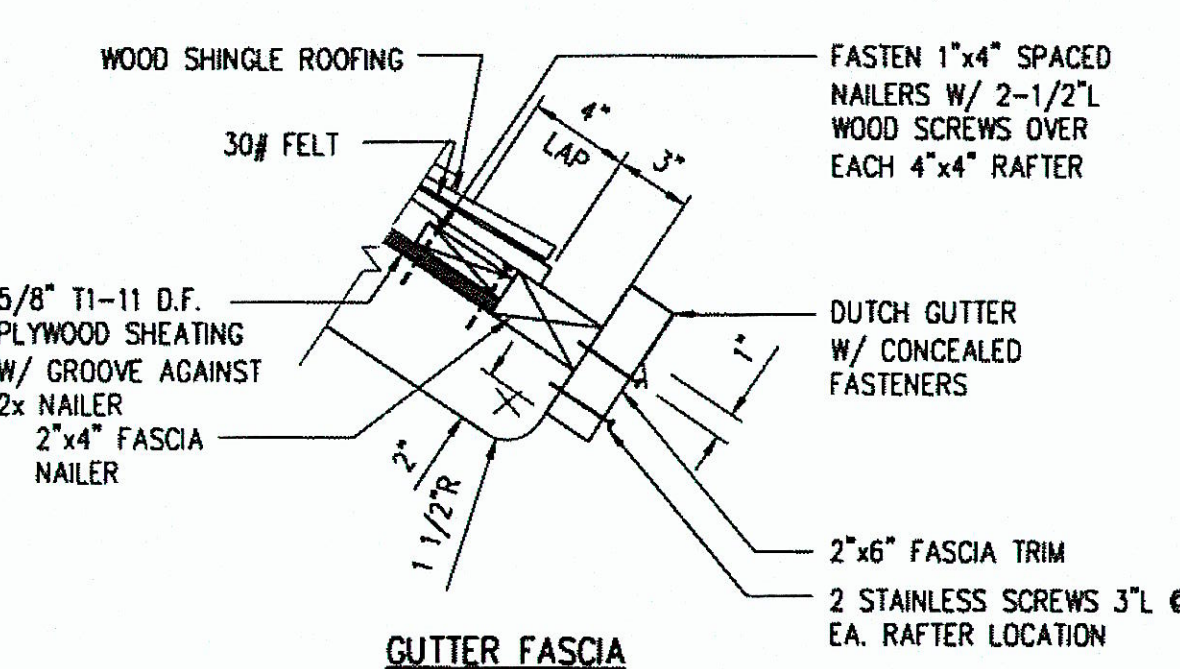
4 RAFTER BEAM CONNECTION
C-47A SCALE: 1-1/2"=1'-0"



6 POST ANCHOR DETAIL
C-47A SCALE: 1-1/2"=1'-0"



1 WOOD SHINGLE ROOF DETAILS
C-47A SCALE: 1-1/2"=1'-0"



RAKE ELEVATION

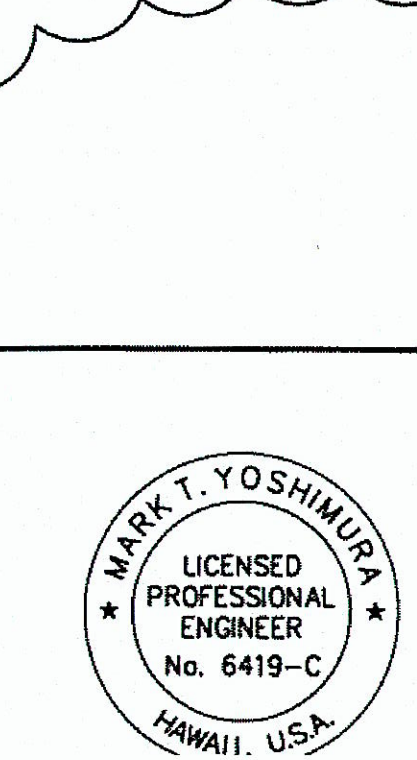
AS-BUILT DRAWINGS

This certifies that the dimensions and details shown on this sheet reflect the dimensions and details, and specifications as constructed in the field.

KAIKOR CONSTRUCTION CO., INC.

Julian DATE: 7/27/20

GRAPHIC SCALES



REVISION	DATE	BY	APPROVED

DEPARTMENT OF TRANSPORTATION SERVICES
CITY & COUNTY OF HONOLULU
**BUS STOP SITE IMPROVEMENTS,
BUS SHELTER REPAIRS (FY12)**
OAHU, HAWAII

TYPE "R" BUS SHELTER DETAILS

"AS-BUILT"