

## TAI

# The Reinforced Earth Company

8614 Westwood Center Drive Suite 1100, Vienna, Virginia 22182 (703) 821-1175

### GENERAL NOTES

#### DESIGN CRITERIA

- 1. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE REINFORCED EARTH VOLUME, METHODS OF CONSTRUCTION AND QUALITY OF PREFABRICATED MATERIALS SHALL CONFORM TO THE CONTRACTING AGENCY'S TECHNICAL SPECIFICATIONS FOR REINFORCED EARTH WALLS.
- 2. SOILS CHARACTERISTICS ASSUMED FOR DESIGN:

SELECT GRANULAR BACKFILL (4" MINUS GRANULAR FILL)  $\emptyset = 34$  degrees, c = 0 p.s.f.,  $\S = 100$  p.c.f.

RANDOM BACKFILL  $\emptyset = 34$  degrees, c =0 p.s.f.,  $\S = 100$  p.c.f.

FOUNDATION MATERIAL  $\emptyset = 30$  degrees, c = 0 p.s.f.

- 3. THE MAXIMUM APPLIED BEARING PRESSURE AT THE FOUNDATION LEVEL IS AS SHOWN ON THE WALL ELEVATIONS FOR EACH DESIGN CASE, IT IS THE RESPONSIBILITY OF THE OWNER TO DETERMINE THAT THIS APPLIED BEARING PRESSURE IS ALLOWABLE FOR THAT LOCATION.
- 4. ANY UNSUITABLE FOUNDATION MATERIAL BELOW THE REINFORCED EARTH VOLUME, AS DETERMINED BY THE ENGINEER, SHALL BE EXCAVATED AND REPLACED WITH SUITABLE MATERIAL OR OTHERWISE STABILIZED AS DIRECTED BY THE ENGINEER.
- 5. REINFORCING STRIPS FOR REINFORCED EARTH WALLS SHALL BE 50mm WIDE AND 4mm & 5mm THICK, AND SHALL CONFORM TO THE PHYSICAL AND MECHANICAL PROPERTIES OF ASTM A-572 GRADE 65, TYPE 3. GALVANIZATION SHALL BE APPLIED IN ACCORDANCE WITH ASTM A-123. TIE STRIPS SHALL BE STEEL ASTM A570 GRADE 50 GALVANIZED PER ASTM A-123.

### WALL CONSTRUCTION

- 6. STATIONS SHOWN ARE ALONG BASE LINE.
- 7. REINFORCED EARTH WALLS IN CURVES WILL FORM A SERIES OF SHORT CHORDS OF 4.92' EACH TO MATCH DESIRED WALL ALIGNMENT.
- 8. FOR LOCATION OF REINFORCED EARTH WALLS, SEE SHEET 2 AND CONTRACT DRAWINGS.
- 9. IF MANHOLES AND DROP INLETS ARE PRESENT, THEY SHALL BE LOCATED AS SHOWN ON WALL ELEVATIONS.
- 10. IF PILES ARE LOCATED WITHIN THE REINFORCED EARTH VOLUME, THEY SHALL BE DRIVEN PRIOR TO CONSTRUCTION OF THE REINFORCED EARTH WALL UNLESS A METHOD TO PROTECT THE STRUCTURE, WHICH IS ACCEPTABLE TO THE ENGINEER AND THE REINFORCED EARTH COMPANY, AND IS PROPOSED AND APPROVED IN WRITING.
- 11. BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR REINFORCED EARTH WALLS TO A LEVEL OF 2" (±) ABOVE THE TIE STRIPS EMBEDDED IN THE PANELS. INSTALLATION OF REINFORCING STRIPS SHALL BE PERMITTED ONLY AFTER PLACEMENT AND COMPACTION OF THE BACKFILL MATERIAL HAS REACHED THE REQUIRED LEVEL.

### WALL CONSTRUCTION (CONT.)

- 12. COMPACTION AND OPERATION EQUIPMENT SHALL BE KEPT A MINIMUM DISTANCE OF 3'-0" FROM THE BACK FACE OF THE REINFORCED EARTH PANELS. COMPACTION WITHIN 3'-0" OF THE REINFORCED EARTH PANELS SHALL BE ACHIEVED WITH AT LEAST THREE (3) PASSES OF A LIGHTWEIGHT MECHANICAL TAMPER, ROLLER OR VIBRATORY SYSTEM. NO COMPACTION DENSITY TESTS SHALL BE TAKEN WITHIN THE 3 FT. ZONE.
- 13. THE FINISHED GRADE IN FRONT OF THE WALL SHALL NOT BE PLACED AND COMPACTED UNTIL TWO COURSES OF PANELS HAVE BEEN PLACED AND PRIOR TO THE WALL REACHING A HEIGHT OF 20 FEET AS DIRECTED BY THE ENGINEER. FINISHED GRADE BACKFILL SHALL BE COMPACTED TO 95% OF ASTM D-1557, METHODS 'C' OR 'D', UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF ANY GUARDRAIL POSTS BEHIND THE REINFORCED EARTH PANELS. PRIOR TO PLACEMENT OF THE TOP LAYER OF REINFORCING STRIPS, INDIVIDUAL STRIPS MAY BE SKEWED TO AVOID THE POST LOCATIONS IF AUTHORIZED BY THE REINFORCED EARTH COMPANY. ANY DAMAGE DONE TO THE REINFORCING STRIPS DUE TO THE INSTALLATION OF THE GUARDRAIL SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. (SEE DETAILS SHEET 4)
- IF EXISTING OR FUTURE STRUCTURES, PIPES, FOUNDATIONS OR GUARDRAIL POSTS WHICH ARE WITHIN THE REINFORCED EARTH VOLUME INTERFERE WITH THE NORMAL PLACEMENT OF REINFORCING STRIPS AND SPECIFIC DIRECTION HAS NOT BEEN PROVIDED ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE REINFORCED EARTH COMPANY TO DETERMINE WHAT COURSE OF ACTION SHOULD BE TAKEN.
- 16. ALL DETAILING AND CHECKING OF REINFORCING STEEL FOR ANY C.I.P. CONCRETE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 17. TOP PANELS BENEATH CAST-IN-PLACE COPING SHALL HAVE #4 DOWELS PROTRUDING FROM THEIR TOP EDGE.
- 18. FOR OTHER INFORMATION PERTAINING TO WALL CONSTRUCTION PLEASE REFER TO THE REINFORCED EARTH CONSTRUCTION MANUAL.
- 19. THE CONTRACTOR IS RESPONSIBLE FOR GRADUALLY DEFLECTING UPPER REINFORCING STRIPS DOWNWARD TO AVOID CONFLICTS WITH PAVING AND SUBGRADE PREPARATION. THE CONTRACTOR'S ATTENTION IS DIRECTED ESPECIALLY TO SITUATIONS WHERE ROADWAY SUPERELEVATION AND/OR SOIL MIXING ARE ANTICIPATED.
- 20. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING STORM WATER DRAINAGE IN THE VICINITY OF THE WALL DURING CONSTRUCTION. STORM WATER RUNOFF IS TO BE COLLECTED AND DISCHARGED AWAY FROM THE WALL AND REINFORCED BACKFILL.

### MATERIALS NOTES

#### 21. NOMINAL STRIP LENGTHS

THE REINFORCING STRIP LENGTHS SHOWN ON THE PLANS, MEASURED FROM BACK FACE OF PANEL, ARE THE NOMINAL LENGTHS REQUIRED BY CALCULATION. THE ACTUAL FABRICATED STRIP LENGTHS ARE OFTEN LONGER (UP TO 6") DUE TO MANUFACTURING TOLERANCES. THE REQUIRED HORIZONTAL LIMIT OF GRANULAR BACKFILL IS EQUAL TO THE NOMINAL STRIP LENGTH. ADDITIONAL GRANULAR BACKFILL BEYOND THE NOMINAL STRIP LENGTH IS NOT REQUIRED BY CALCULATION.

#### 22. SELECT BACKFILL QUANTITY

THE SELECT BACKFILL QUANTITY INDICATED BY THE REINFORCED EARTH COMPANY IS CALCULATED BY MULTIPLYING THE NOMINAL STRIP LENGTHS SHOWN ON THE PLANS (PLUS O FT.) BY THEIR TRIBUTARY WALL SURFACE AREA AND CONVERTING THE RESULT TO A NEATLINE CUBIC YARD QUANTITY. THIS INFORMATION IS FURNISHED FOR THE CONTRACTOR'S INFORMATION ONLY AND IS NOT INTENDED TO REPRESENT THE ACTUAL QUANTITIES REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR MUST CALCULATE HIS OWN EXCAVATION AND BACKFILL QUANTITIES BASED UPON THE SPECIFIC CONDITIONS OF THE PROJECT.

#### 23. PANEL FINISH

THE PRECAST PANELS FOR THIS PROJECT SHALL HAVE A BUSHHAMMER (RECO RE13 LINER) FINISH UNLESS OTHERWISE SPECIFIED.

### 24. NOTE TO CONTRACTORS

ONLY THE FOLLOWING MATERIALS ARE SUPPLIED BY THE REINFORCED EARTH COMPANY:

- ANGLE IRONS
- PRECAST CONCRETE FACING PANELSREINFORCING STRIPS
- BOLT SETS (FOR ATTACHING PANELS TO THE REINFORCING STRIPS)
   BEARING BLOCKS
- RUBBER SHIMS

FILTER CLOTH AND ADHESIVE (FOR PANEL JOINTS ONLY)
 #14 DYWIDAG BARS AND INSPECTION STRIPS

ANY OTHER MATERIALS CALLED FOR IN THE CONTRACT PLANS OR SPECIFICATIONS ARE TO BE SUPPLIED BY THE CONTRACTOR. ANY JOINT MATERIALS SHOWN AT THE INTERFACE OF PRECAST PANELS AND CAST—IN—PLACE CONCRETE STRUCTURES ARE TO BE SUPPLIED BY THE ERECTION CONTRACTOR. ALL SANDBLASTING, PAINTING, SEALERS OR OTHER SPECIAL APPLIED COATINGS ARE ALSO SUPPLIED/INSTALLED BY THE CONTRACTOR IN THE FIELD FOLLOWING PANEL ERECTION.

25. THE REINFORCED EARTH COMPANY SUPPLIES PRECAST CONCRETE FACING PANELS AND ACCESSORIES TO BE USED IN CONJUNCTION WITH OTHER MATERIALS IN THE CONSTRUCTION OF THE REINFORCED EARTH® RETAINING WALLS DETAILED HEREIN. THE CONSTRUCTION AND QUALITY CONTROL PROCEDURES MANUAL FURNISHED BY THE REINFORCED EARTH COMPANY IS INTENDED TO PROVIDE A GENERAL EXPLANATION OF THE SYSTEM. IT IS THE CONTRACTOR'S OBLIGATION TO DEVISE AND EXECUTE A PROJECT SPECIFIC ERECTION SEQUENCE, PANEL UNLOADING, HANDLING AND BRACING SYSTEM, AND FALL PROTECTION SYSTEM. THE BRACING SYSTEM SHOWN IN THE CONSTRUCTION AND QUALITY CONTROL PROCEDURES MANUAL IS GENERAL IN NATURE AND DOES NOT ACCOUNT FOR PROJECT SPECIFIC CRITERIA. COMPLIANCE WITH THE GUIDELINES IN THIS MANUAL DOES NOT RELIEVE THE CONTRACTOR OF ITS RESPONSIBILITY TO ADHERE TO THE PROJECT PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS OR COMPLIANCE WITH ALL FALL PROTECTION, SAFETY, LAWS, STANDARDS AND PROCEDURES AT THE JOBSITE. CONTRACTORS SHOULD TAKE SPECIAL PRECAUTIONS TO PREVENT THE PANELS FROM SHIFTING OR FALLING DURING THE ERECTION PROCESS.

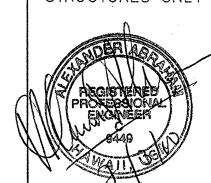
### SHEET NO. CONTENTS 1 DRAWING COVERS

2 STAKEOUT PLAN
3 ELEVATION
4 ELEVATION CONT.
5 ELEVATION CONT.
6 DETAILS
7 DETAILS
8 DETAILS
8 CROSS SECTIONS
8B CROSS SECTIONS

STANDARD PANEL DETAILS

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RESPECT TO THE
INTERNAL STABILITY
OF REINFORCED EARTH
STRUCTURES ONLY



5 6/26/00 AS BUILTS

4 9/10/99 AS PER COMMENTS

### STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

PROJ. NO: 50E-01-98

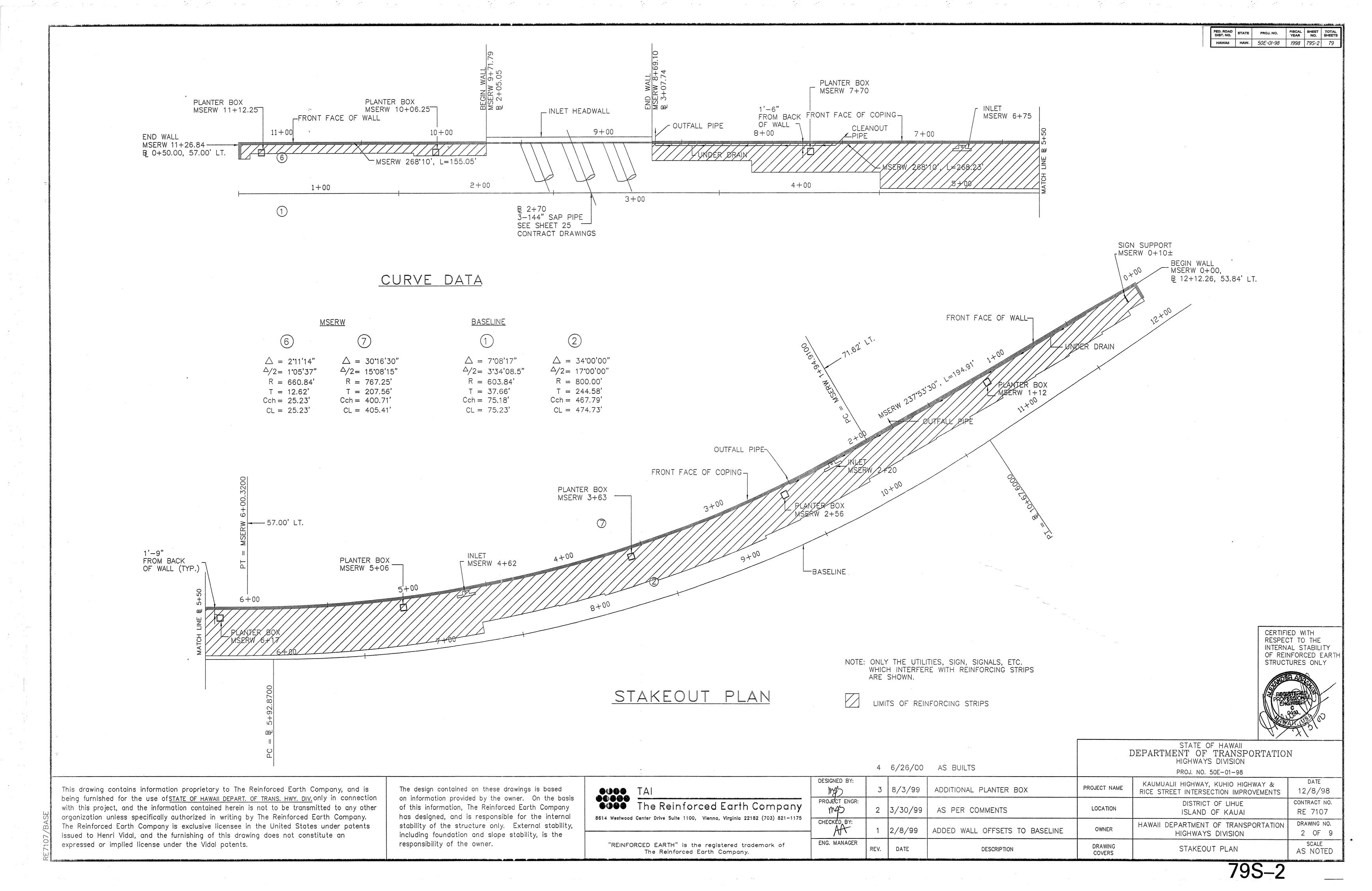
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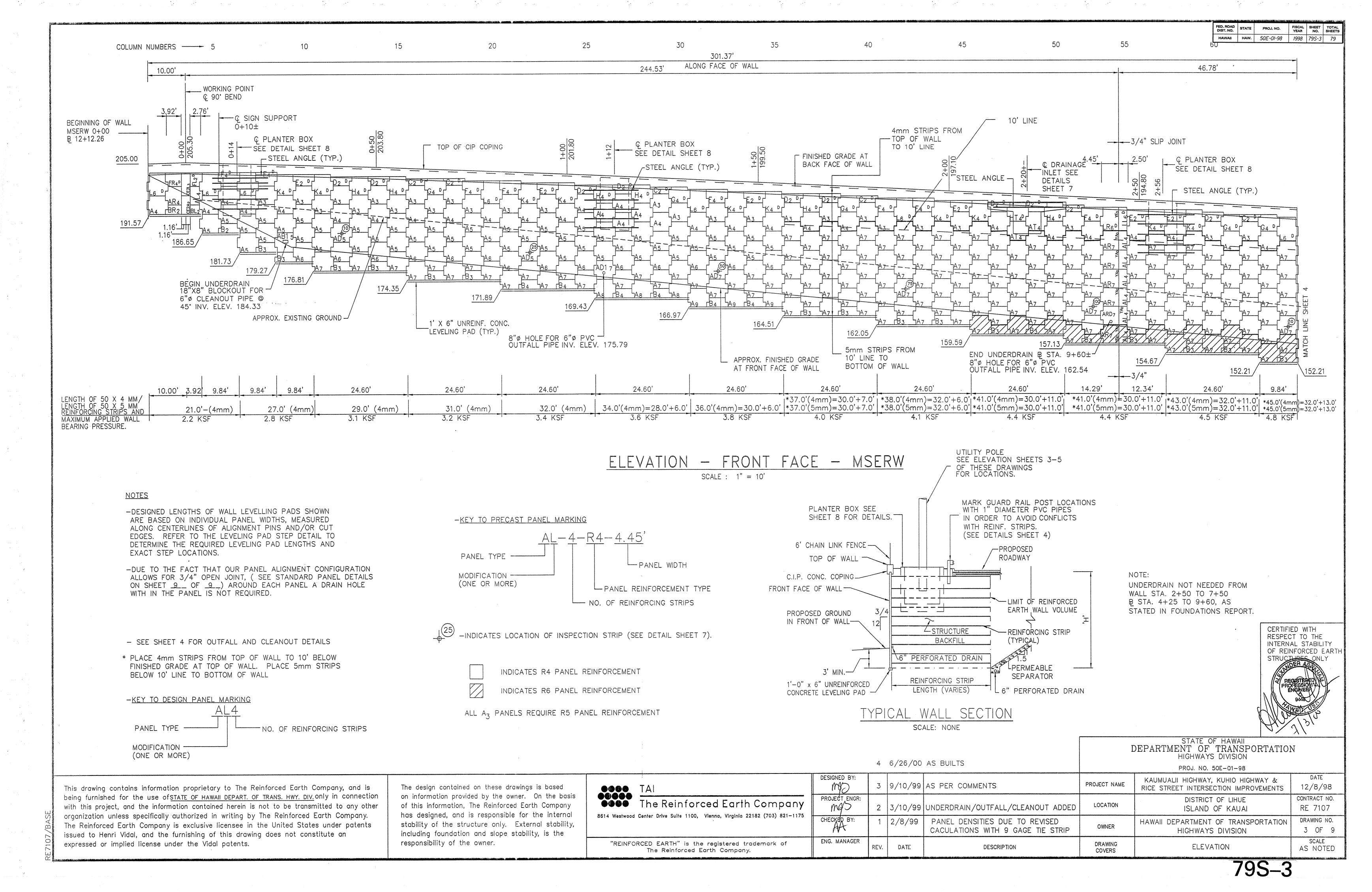
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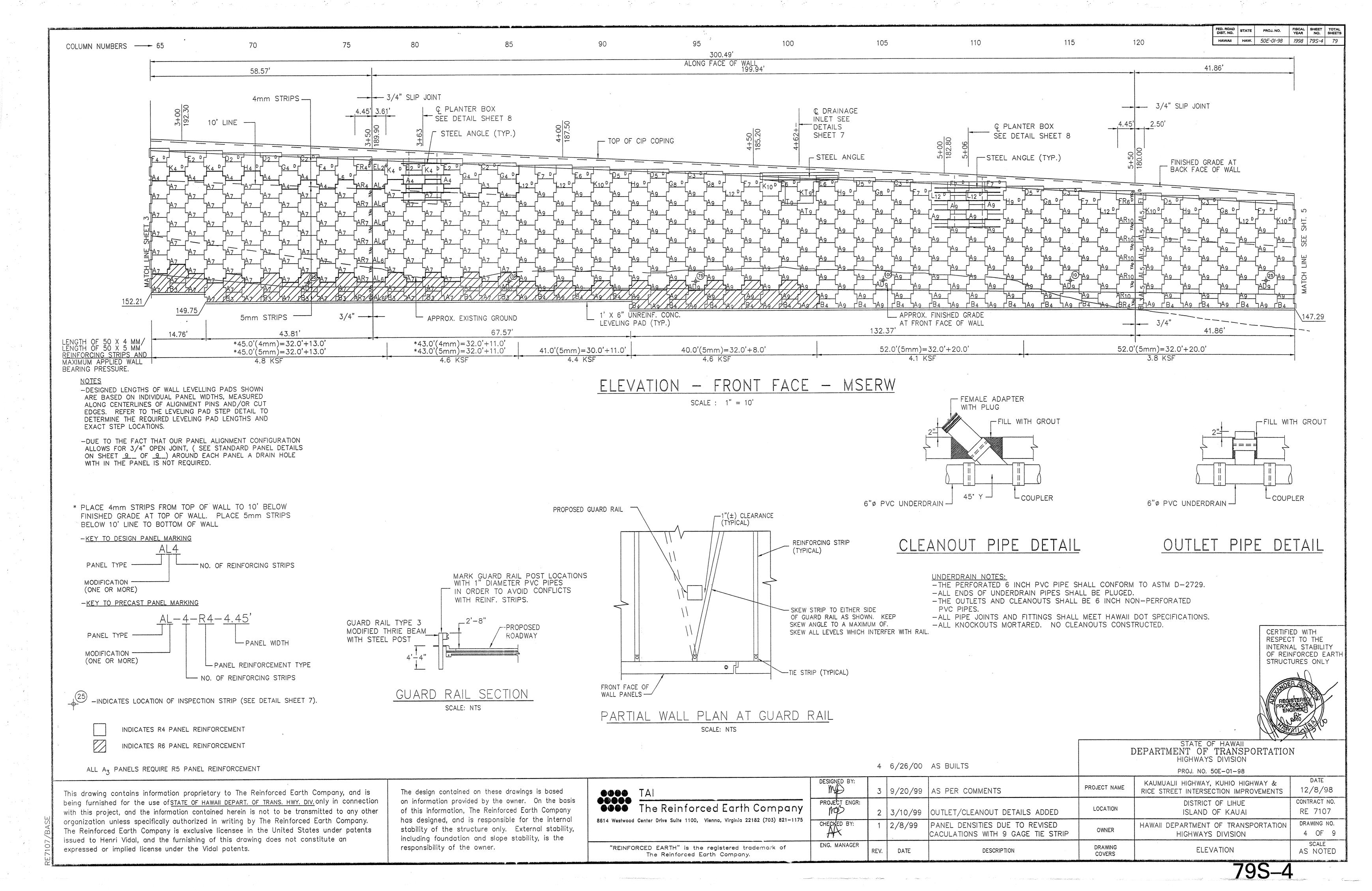
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|---------------|--|--|--|--|--|
| 0000          | The Reinforced Earth Company                                   |  |  |  |  |
| 8614 Westwood | Center Drive Suite 1100, Vienna, Virginia 22182 (703) 821-1175 |  |  |  |  |

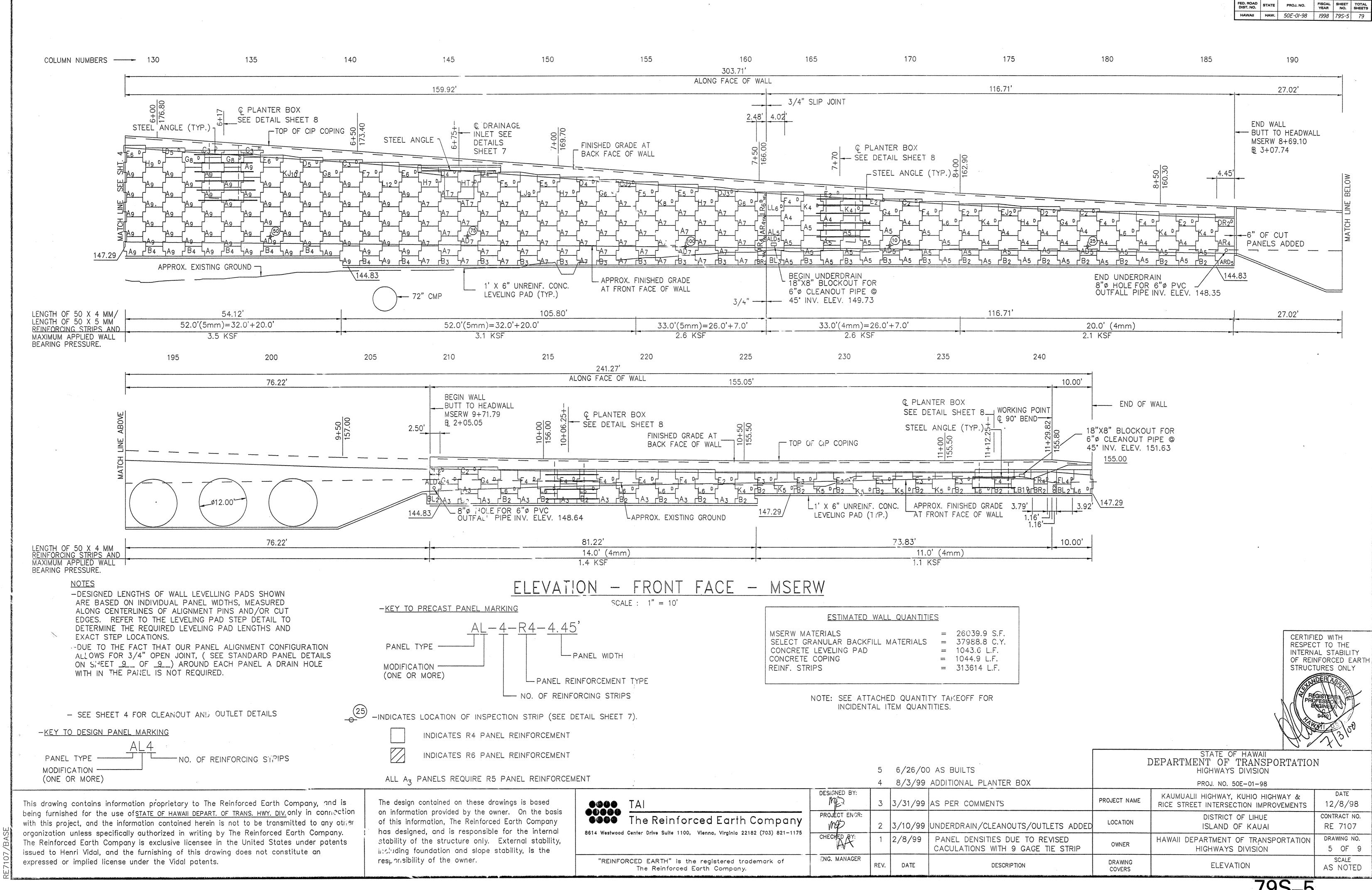
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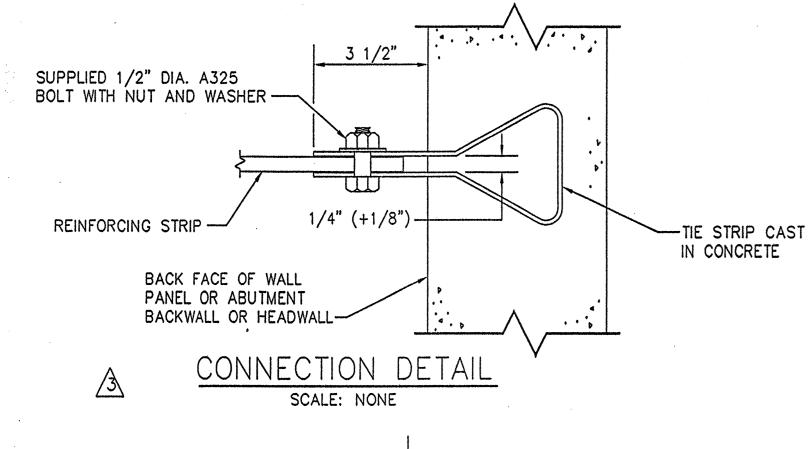
|  |               |      |         |                        |                   | PROJ. NO. 50E-01-98  |                         |
|--|---------------|------|---------|------------------------|-------------------|--|-------------------------|
|  | DESIGNED BY:  | 3    | 3/30/99 | AS PER COMMENTS        | PROJECT NAME      | KAUMUALII HIGHWAY, KUHIO HIGHWAY & RICE STREET INTERSECTION IMPROVEMENTS | DATE<br>12/8/98         |
|  | PROJECT ENGR: | 2    | 3/10/99 | SHEETS 3-6             | LOCATION          | DISTRICT OF LIHUE<br>ISLAND OF KAUAI                                     | contract no.<br>RE 7107 |
|  | CHECKED BY:   | 1    | 2/8/99  | SHEETS 2-5 AND SHEET 7 | OWNER             | HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION                    | DRAWING NO.<br>1 OF 9   |
|  | ENG. MANAGER  | REV. | DATE    | DESCRIPTION            | DRAWING<br>COVERS | GENERAL NOTES  | scale<br>AS NOTED       |

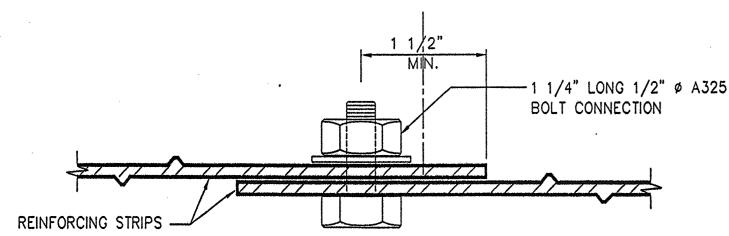




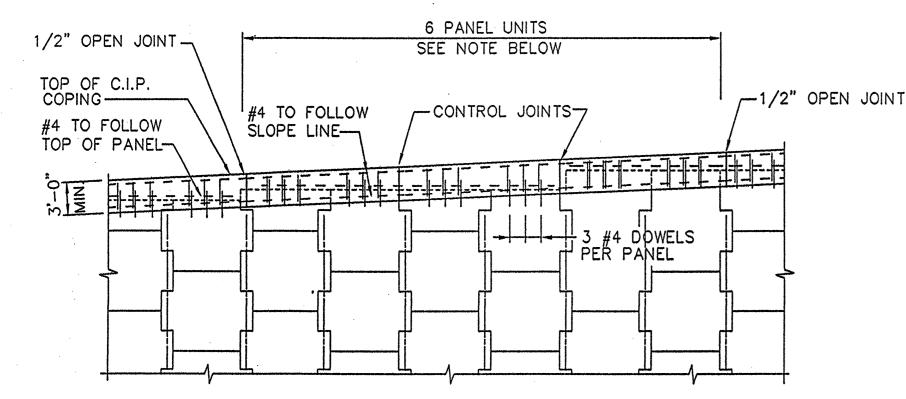






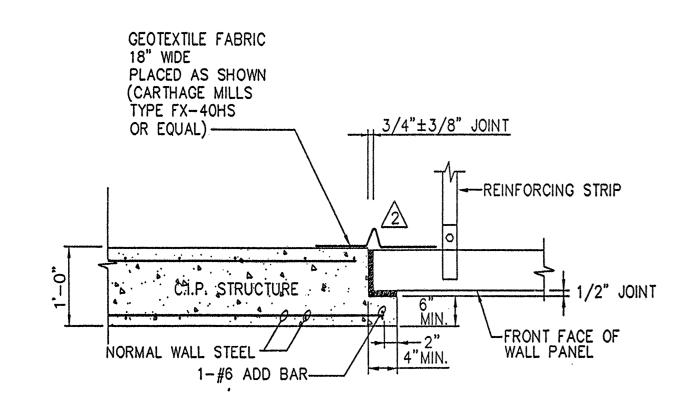


### SPLICE CONNECTION DETAIL SCALE 1:1



### COPING - PARTIAL ELEVATION

NOTE:
EXPANSION JOINTS (1/2" OPEN JOINT) IN COPING SHALL BE AT 6 PANEL INTERVALS AND COINCIDE APPROXIMATELY WITH © OF ALIGNMENT RECESS. REINFORCING STREEL SHALL BE STOPPED 2" SHORT OF EITHER SIDE OF THE JOINTS. CONTROL JOINTS IN BETWEEN THE OPEN JOINTS SHALL BE PROVIDED AT 2 PANEL INTERVALS. CHAIN LINK FENCE NOT SHOWN FOR CLAIRITY.



### CONNECTION DETAIL @ C.I.P. STRUCTURE SCALE: 1" = 1'- 0"

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# responsibility of the owner.

FRONT FACE OF

GEOTEXTILE FABRIC 18" WIDE

PLACED AS SHOWN

WORKING POINT ----

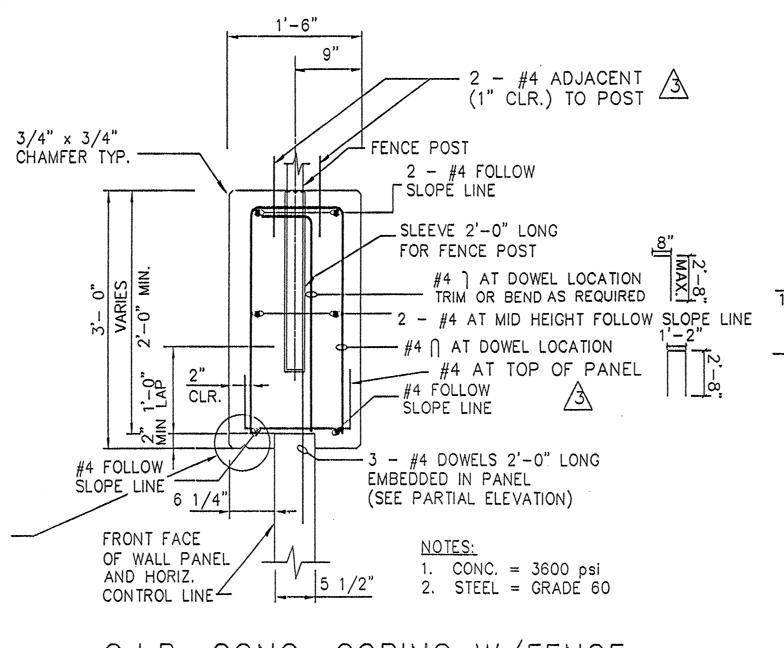
(CARTHAGE MILLS TYPE FX-40HS

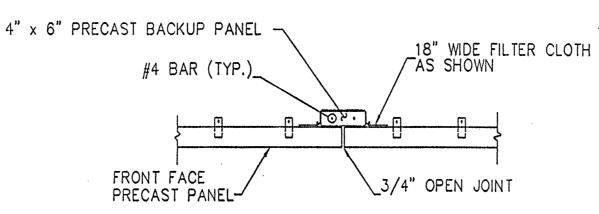
OR EQUAL) --

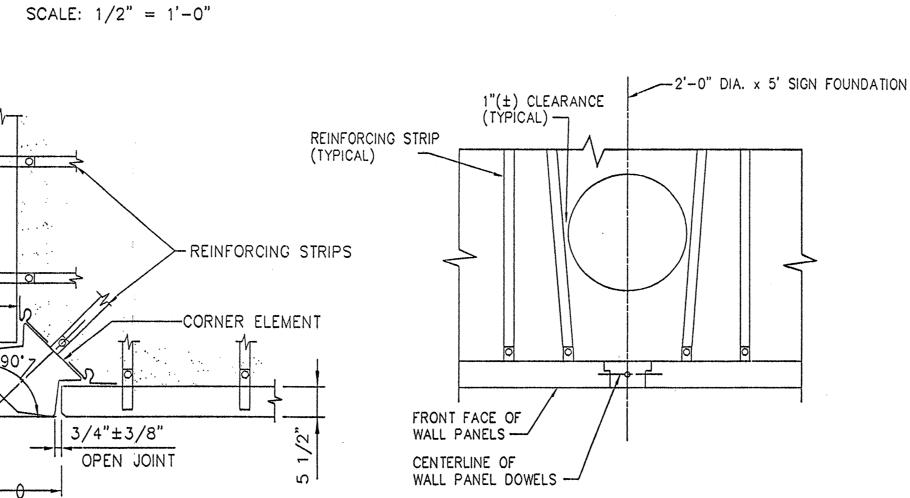
WALL PANEL ----

### 3/4" x 3/4" CHAMFER TYP. 2 - #4 FOLLOW T SLOPE LINE \_SLEEVE 2'-0" LONG FOR FENCE POST #4 ] AT DOWEL LOCATION TRIM OR BEND AS REQUIRED #4 ] AT DOWEL LOCATION #4 | AT DOWEL LOCATION #4 AT TOP OF PANEL #4 FOLLOW CLR. SLOPE LINE - 3 - #4 DOWELS 2'-0" LONG #4 FOLLOW SLOPE LINE EMBEDDED IN PANEL (SEE PARTIAL ELEVATION) FRONT FACE OF WALL PANEL CONC. = 3600 psi AND HORIZ. 2. STEEL = GRADE 60 CONTROL LINE C.I.P. CONC. COPING W/FENCE SCALE: 1'' = 1' - 0''IT IS ACCEPTABLE TO RECO TO INCREASE THE HEIGHT OF COPING UP TO 5 INCHES TO ACCOMMODATE THE ANTICIPATED SETTLEMENT.

BACK UP PANEL DETAIL



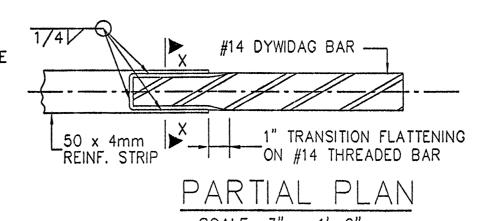




PARTIAL WALL PLAN AT SIGN FOUNDATION
SCALE: NTS

### BAR FLATTENING (TYP.) 3/16" x 3-1/2" SLOT (AT THREADED BAR)

SCALE: HALF SIZE



SCALE: 3'' = 1' - 0''

5. FOR LOCATION OF INSPECTION STRIPS REFER TO WALL ELEVATIONS. PLACE FILTER CLOTH OVER OPENING AND SLIT CLOTH TO SCALE: 3'' = 1' - 0''\* INSERT BAR THROUGH OPENING.

**NOTES** 

OF ASTM-572, GRADE 65.

SMOOTH AGAINST PANEL FACE.

1. ALL STEEL PARTS WILL BE GALVANIZED AFTER FABRICATION.

4. THE CONTRACTOR SHALL PROVIDE SPACER(S) TO MAINTAIN

2. DYWIDAG BARS SHALL BE ASTM DESIGNATION A615 GRADE 60.

3. REINFORCING STRIPS SHALL BE 50mm x 4mm x 10'-0" AND

SHALL CONFORM TO THE PHYSICAL AND MECHANICAL PROPERTIES

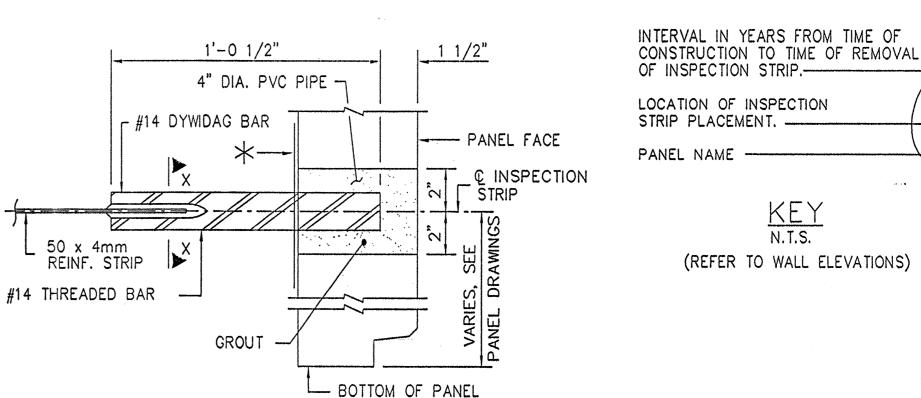
DYWIDAG BAR IN CENTER OF 4" DIA. OPENING DURING BACKFILL

PLACEMENT. PRIOR TO BACKFILLING OVER INSPECTION STRIP,

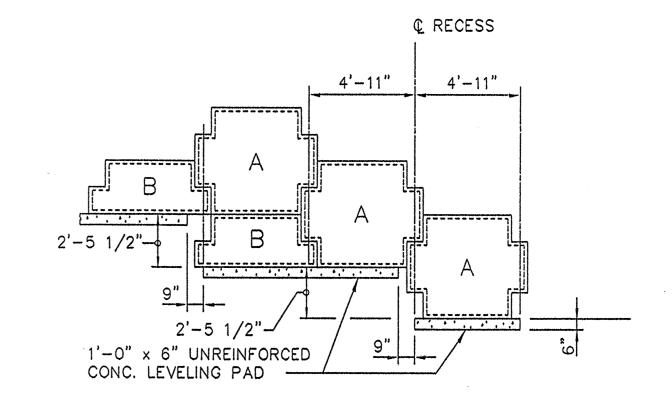
INSPECTION STRIP SHALL BE PLACED SO THAT ITS FINAL POSITION WILL BE HORIZONTAL AND PERPENDICULAR TO WALL

PANELS. AFTER BACKFILLING AND COMPACTING, SPACER(S) CAN BE REMOVED (OPTIONAL) FROM FRONT AND DRY PACK

OPENING WITH 1,000 TO 1,500 PSI GROUT. TROWEL GROUT



INSPECTION STRIP DETAILS & NOTES



TYPICAL LEVELING PAD STEP DETAIL SCALE: 1/4" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

|                         | 4           | 6/26/00 | As Builts                   |                   | PROJ. NO. 50E-01-98  |                      |
|-------------------------|-------------|---------|-----------------------------|-------------------|--|----------------------|
| SIGNED BY:  SJECT ENGR: | 3           | 9/10/99 | AS PER COMMENTS             | PROJECT NAME      | KAUMUALII HIGHWAY, KUHIO HIGHWAY & RICE STREET INTERSECTION IMPROVEMENTS | DATE<br>12/8/98      |
| DJECT ENGR:             |             | 3/31/99 | AS PER COMMENTS             | LOCATION          | DISTRICT OF LIHUE<br>ISLAND OF KAUAI                                     | CONTRACT NO. RE 7107 |
| CKED BY:                | $\triangle$ | 3/10/99 | ADDED NOTE TO COPING DETAIL | OWNER             | HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION                    | DRAWING NO. 6 OF 9   |
| G. MANAGER              | REV.        | DATE    | DESCRIPTION                 | DRAWING<br>COVERS | DETAILS  | SCALE<br>AS NOTED    |

79S<sub>-6</sub>

CERTIFIED WITH
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STRUCTURES ONLY

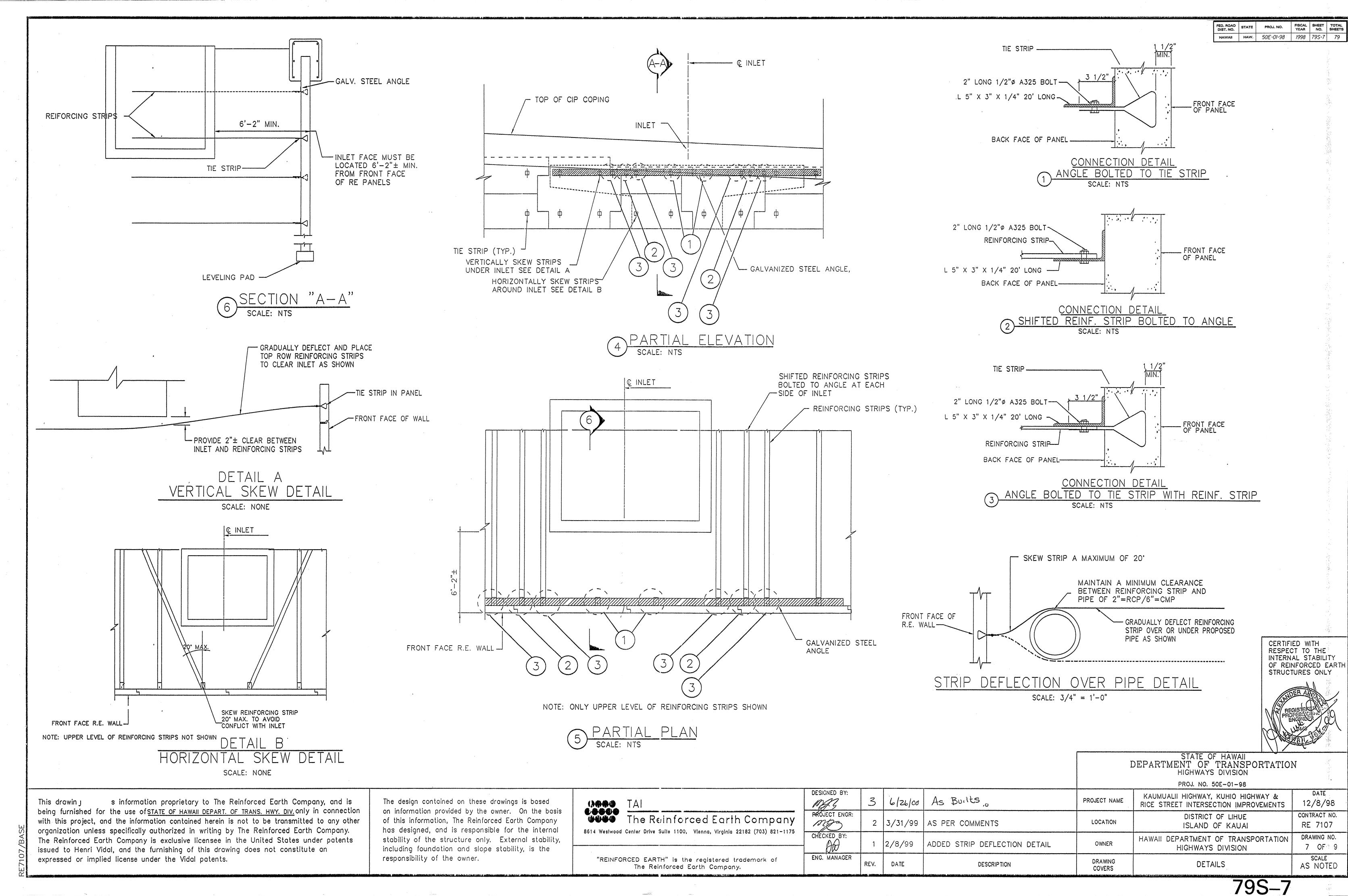
SEE WALL ELEV.

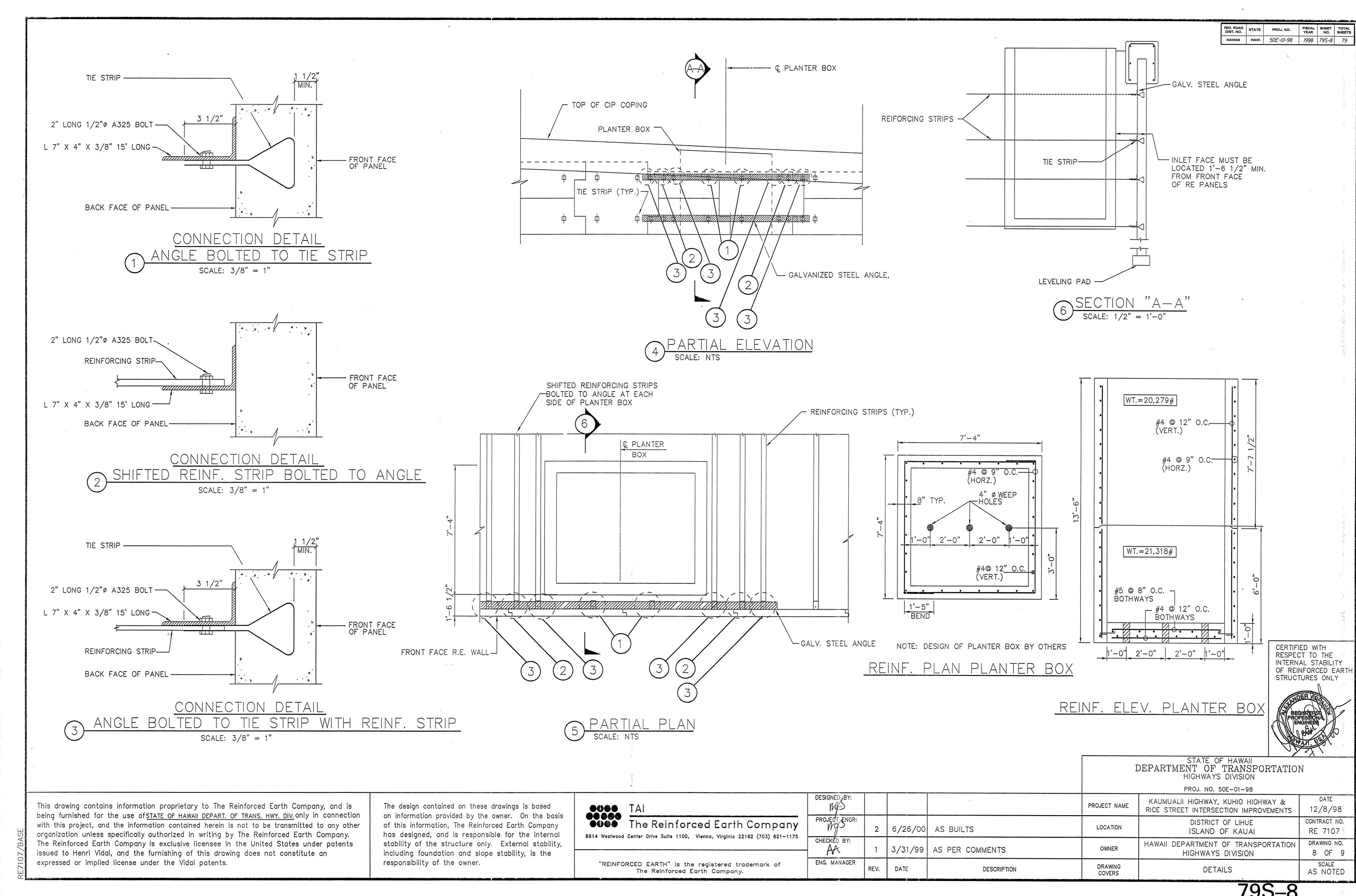
SCALE: 3/4" = 1' - 0"

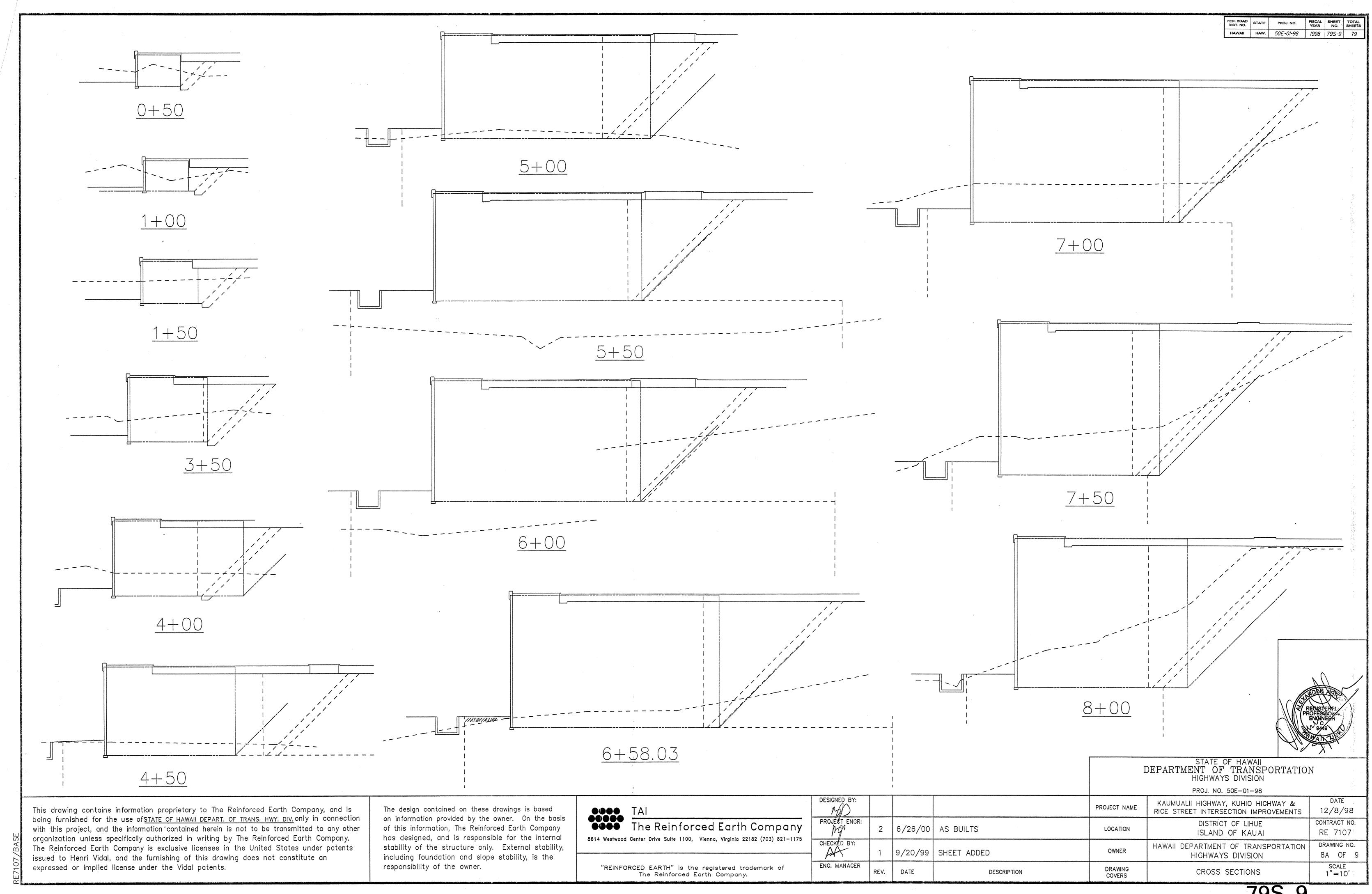
CORNER ELEMENT DETAIL

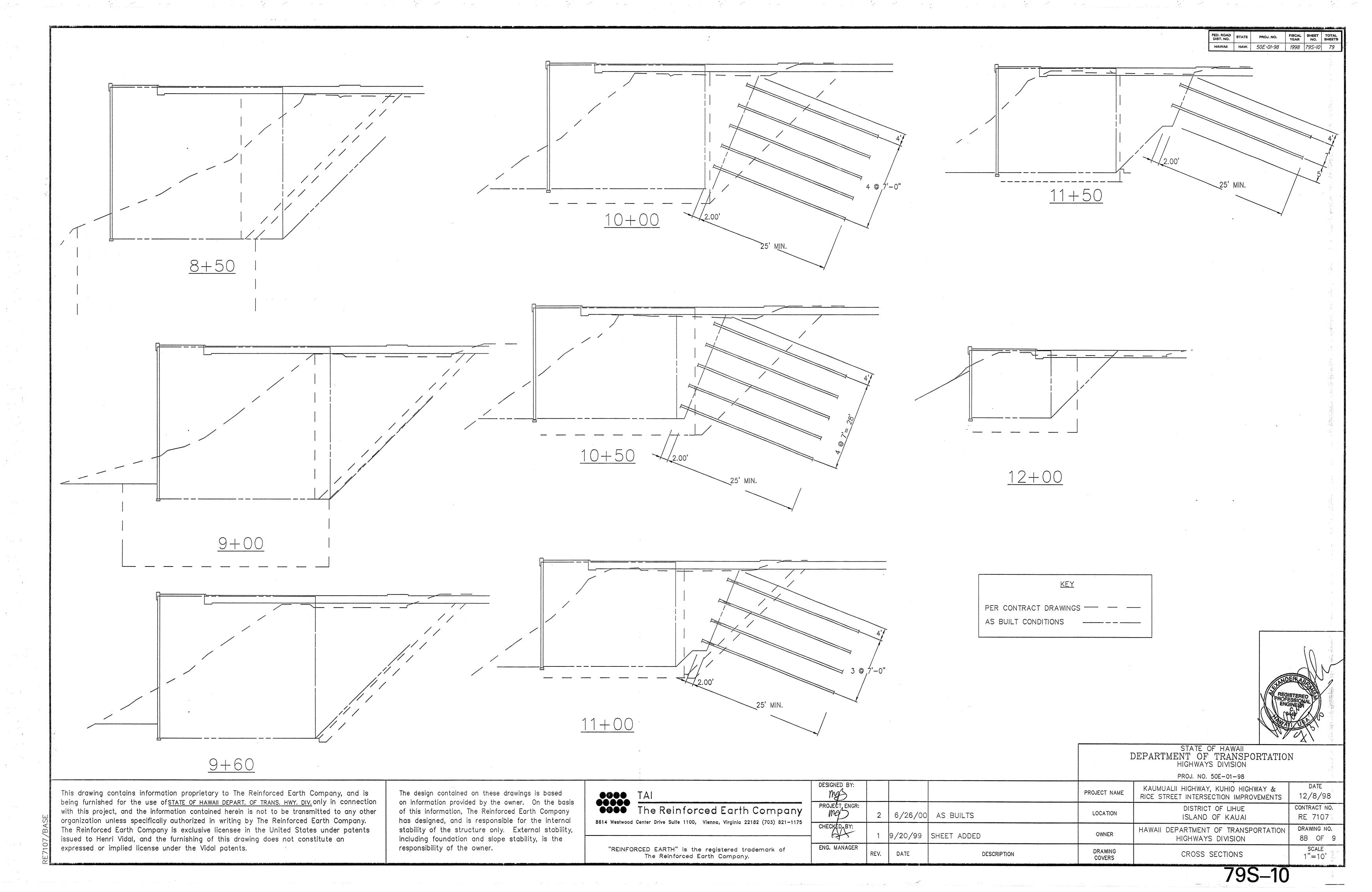
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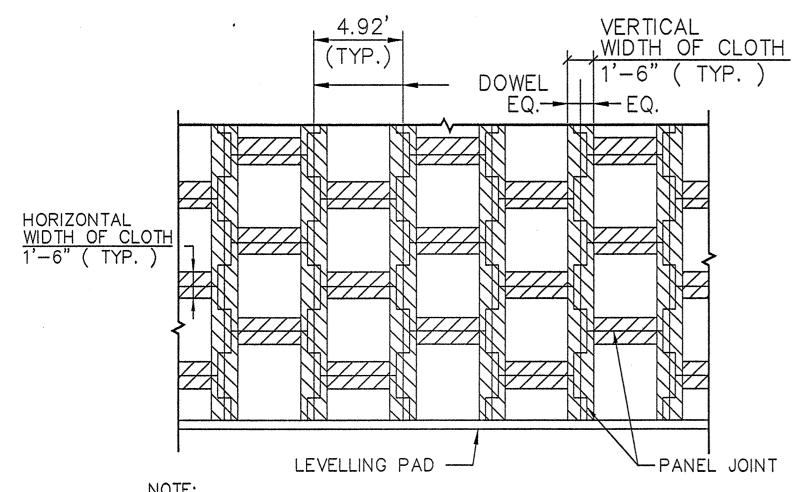






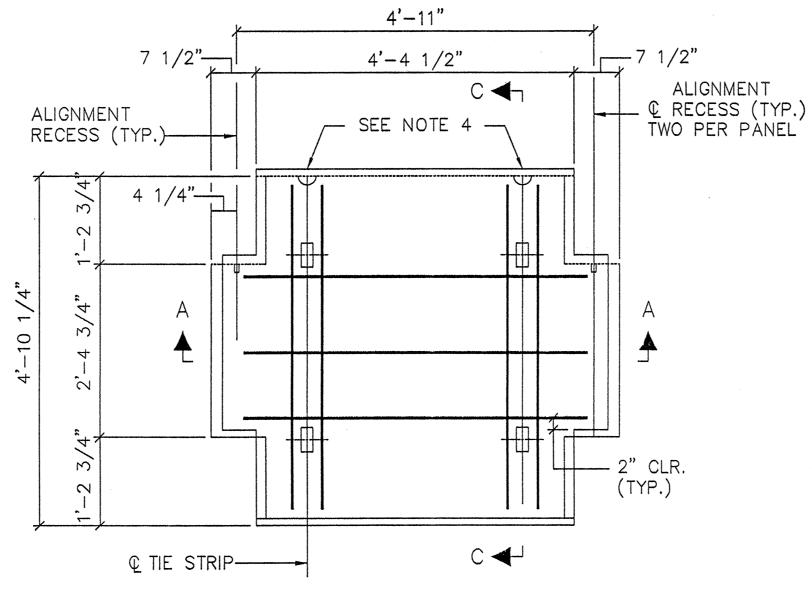


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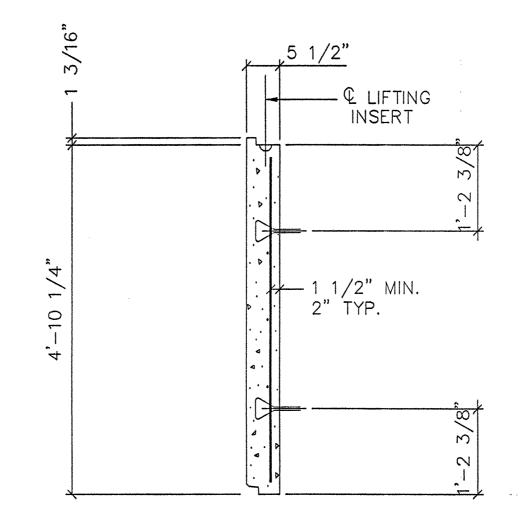


STRIPS OF FILTER CLOTH SHALL BE PLACED ON BACK FACE OF PANEL, OVER PANEL JOINTS. FILTER CLOTH SHALL BE ADHERED TO BACK FACE OF PANELS USING AN ADHESIVE COMPOUND SUPPLIED BY THE REINFORCED EARTH COMPANY.

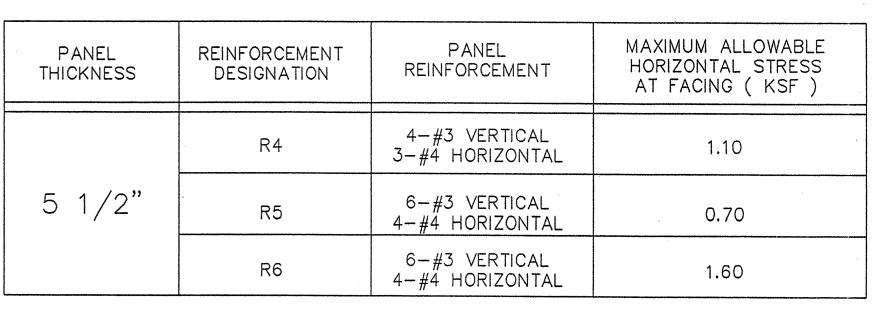
FILTER CLOTH DETAIL PARTIAL ELEVATION - BACK FACE SCALE: 3/16" = 1'-0"



PANEL TYPE "A" WITH R4 REINFORCEMENT  $\frac{\text{FRONT VIEW}}{\text{SCALE: } 3/4" = 1'-0"}$ 



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

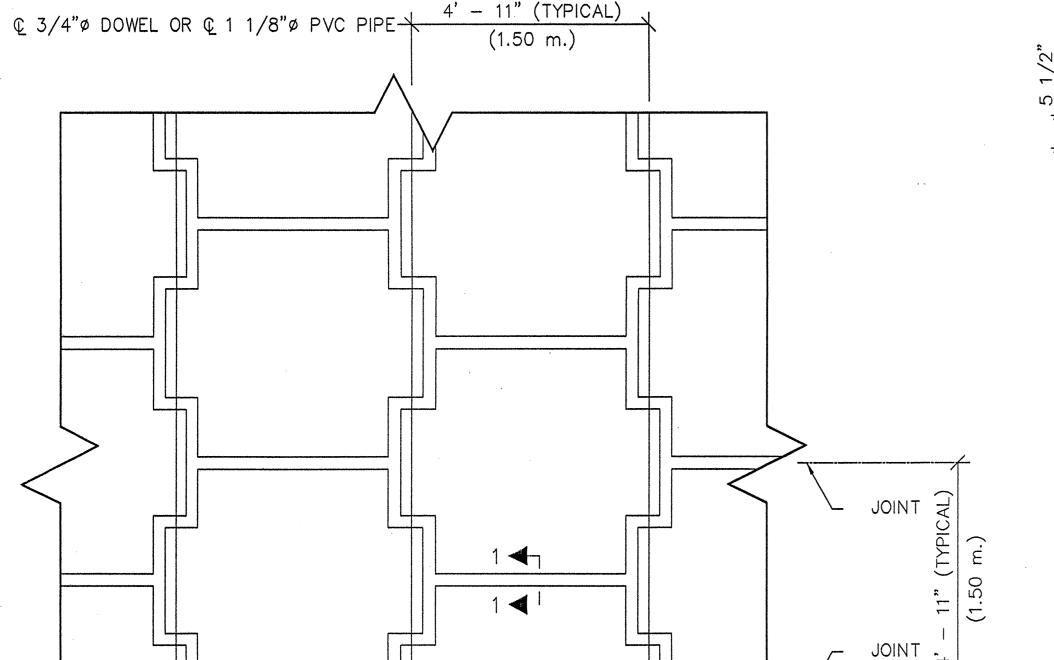


### NOTES:

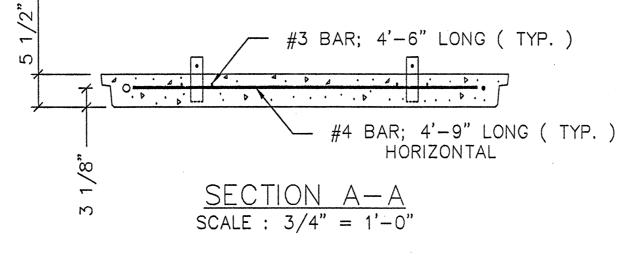
- REINFORCING STEEL TO BE A615 GRADE 60.
- 2. 3/8" x 3/8" CHAMFER SHALL BE PROVIDED ON ALL EXPOSED EDGES ( FRONT FACE ONLY ).
- 3. ALL PANEL TYPES AND OTHER RELATED ELEMENTS WILL BE DETAILED ON SHOP DRAWINGS.
- 4. ALL PANELS SHALL HAVE TWO LIFTING INSERTS OF ONE TON CAPACITY EACH.

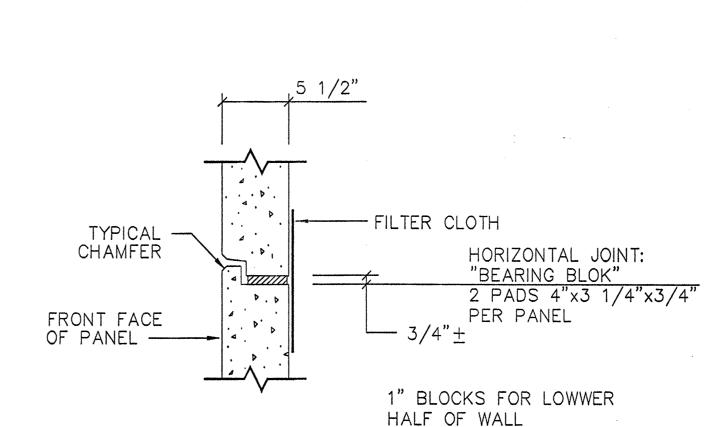
FOR INFORMATION ONLY.

- 5. PANEL DESIGN THICKNESS IS 5 1/2". THICKNESS OF CONCRETE MUST INCREASE TO ACCOMODATE ANY
- ARCHITECTURAL SURFACE FINISH THAT MAY BE SPECIFIED. 6. ACTUAL PANEL REINFORCEMENT FOR ALL PANEL TYPES ON THIS PROJECT IS DESIGNATED ABOVE. R4 ILLUSTRATED
- 7. PANEL FINISH: SHALL BE BUSHHAMMER (RECO RE13) FORM FINISH



TYPICAL PANEL LAYOUT PARTIAL ELEVATION - FRONT FACE SCALE: 1/2" = 1'-0"

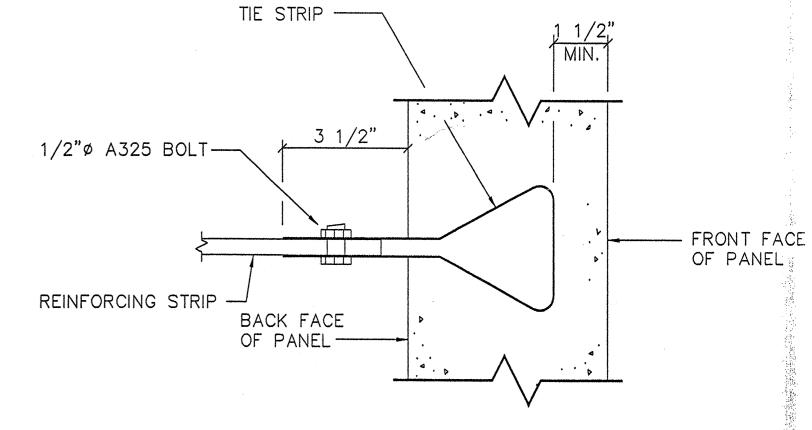




SECTION 1-1

DESIGNED BY:

mps



CONNECTION DETAIL NO SCALE

CERTIFIED WITH
RESPECT TO THE
INTERNAL STABILITY OF REINFORCED EARTH STRUCTURES, ONLY

DATE

12/8/98

CONTRACT NO.

RE 7107

DRAWING NO.

9 OF 9

SCALE

### DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION PROJ. NO. 50E-01-98 KAUMUALII HIGHWAY, KUHIO HIGHWAY &

STATE OF HAWAII

RICE STREET INTERSECTION IMPROVEMENTS

DISTRICT OF LIHUE

ISLAND OF KAUAI

HAWAII DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

PROJECT NAME

••••• ••••• on information provided by the owner. On the basis The Reinforced Earth Company 8614 Westwood Center Drive Suite 1100, Vienna, Virginia 22182 (703) 821-1175

"REINFORCED EARTH" is the registered trademark of The Reinforced Earth Company.

PROJECT ENGR: LOCATION CHECKED BY: OWNER 6/26/00 | AS BUILTS ENG. MANAGER REV. DATE DESCRIPTION COVERS

STANDARD PANEL DETAILS AS NOTED

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The design contained on these drawings is based

responsibility of the owner.