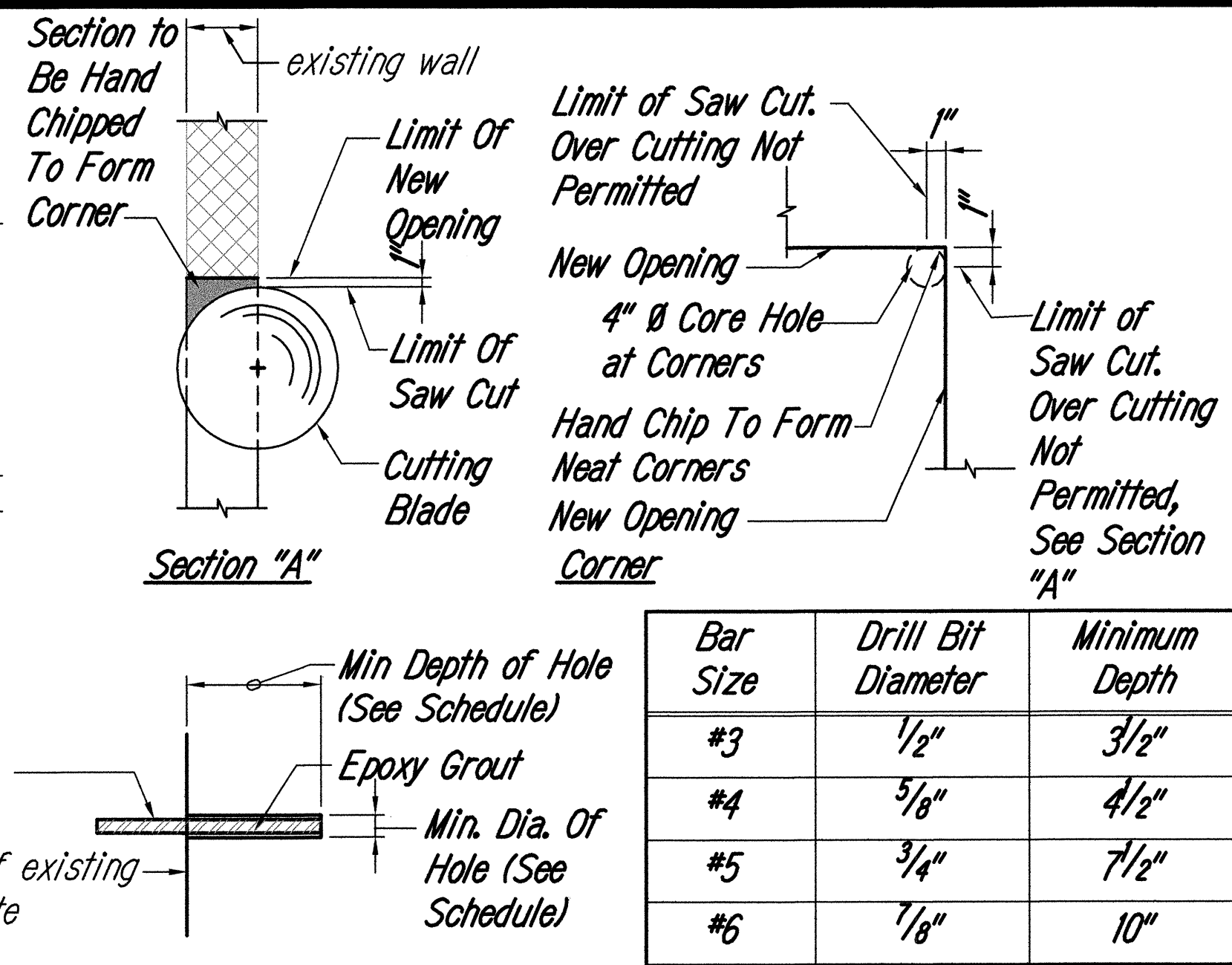
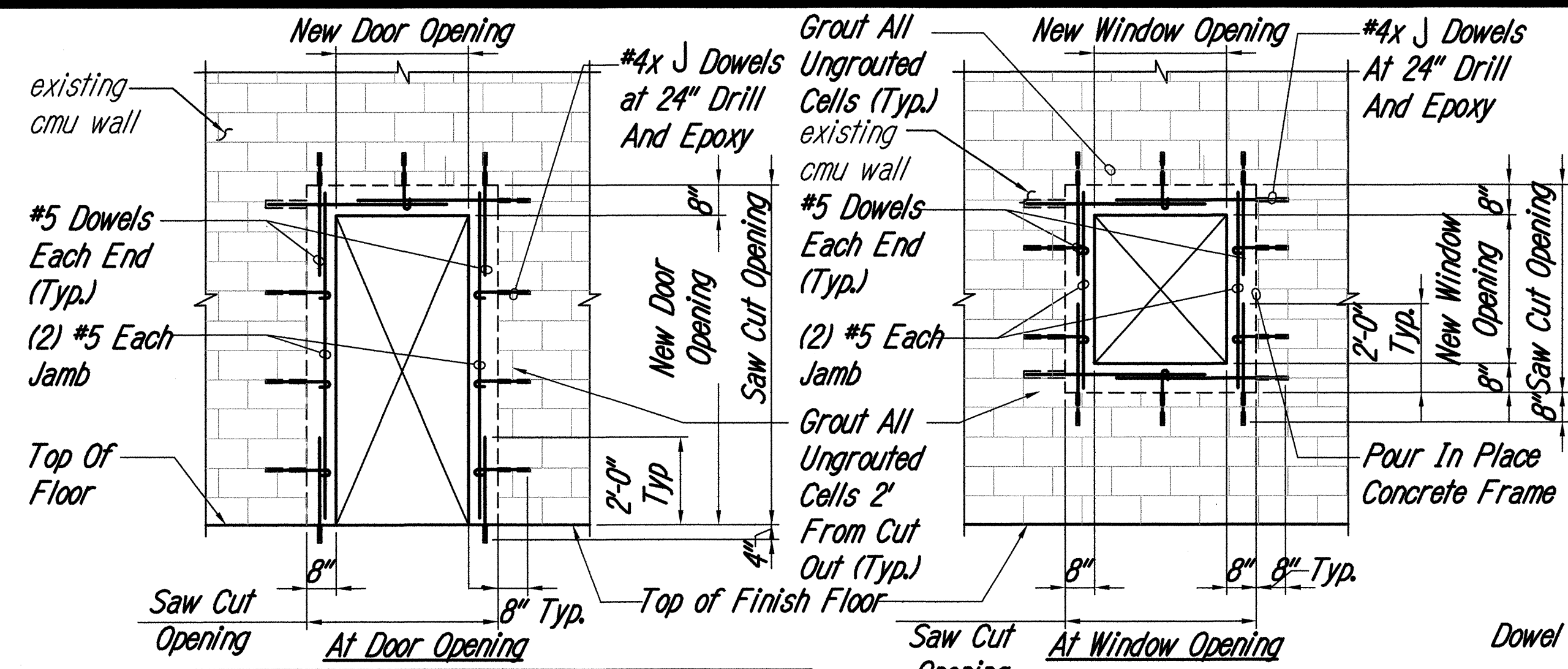
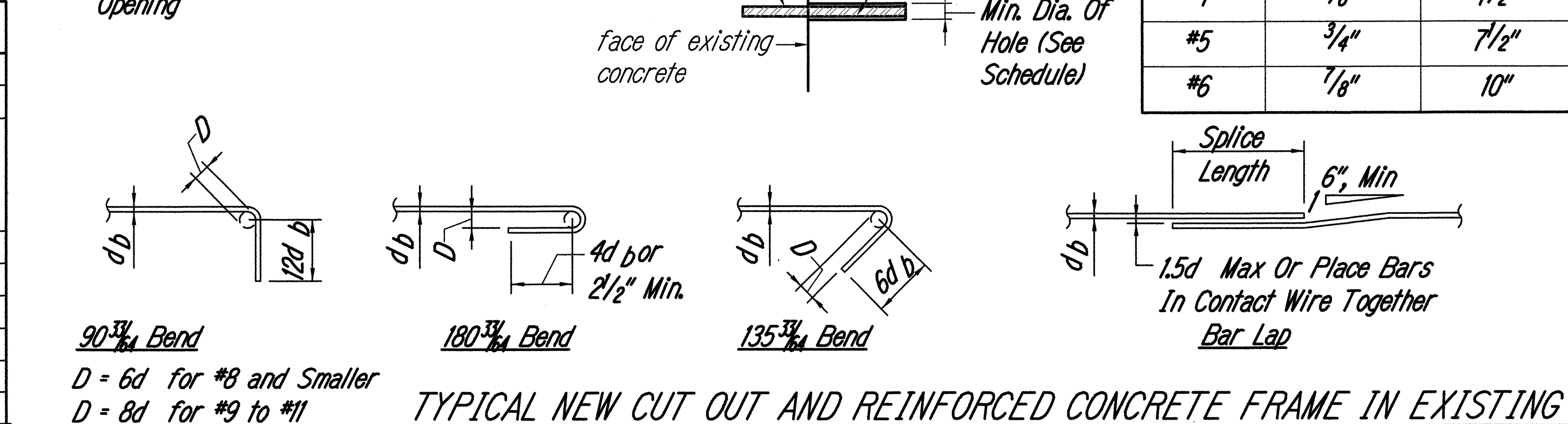




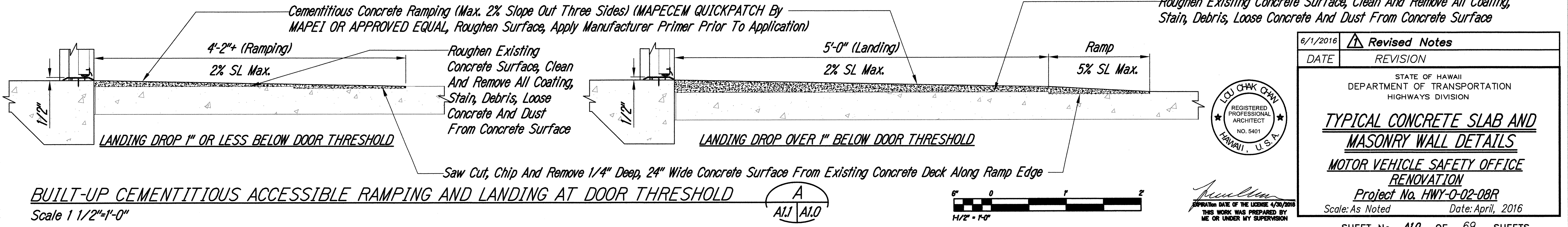
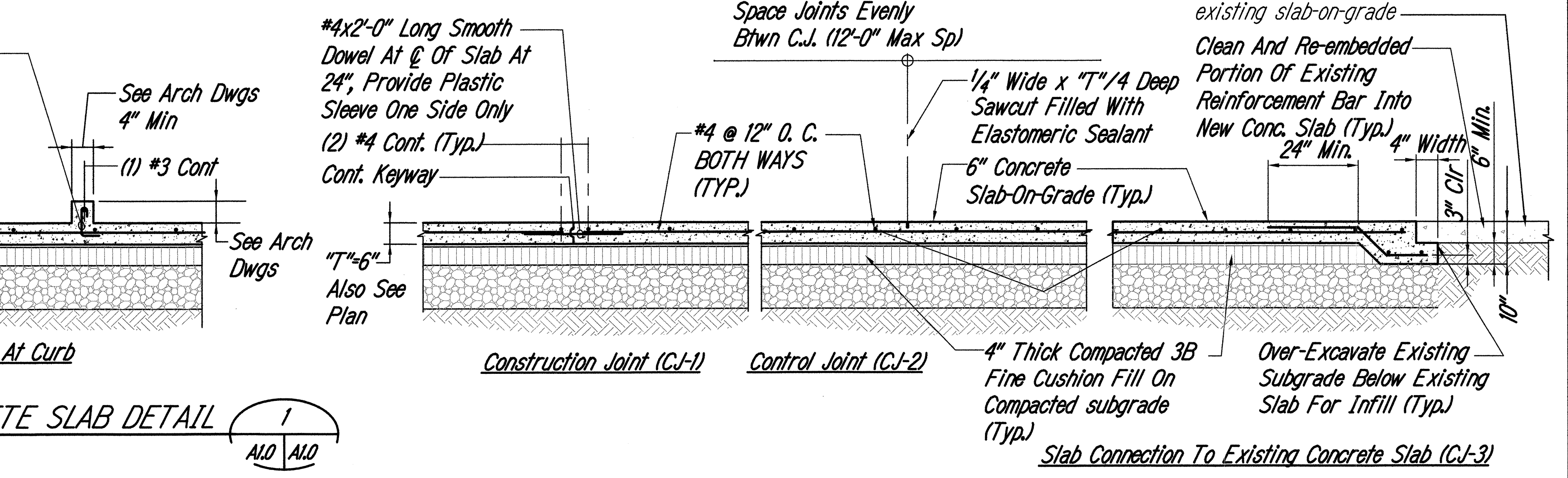
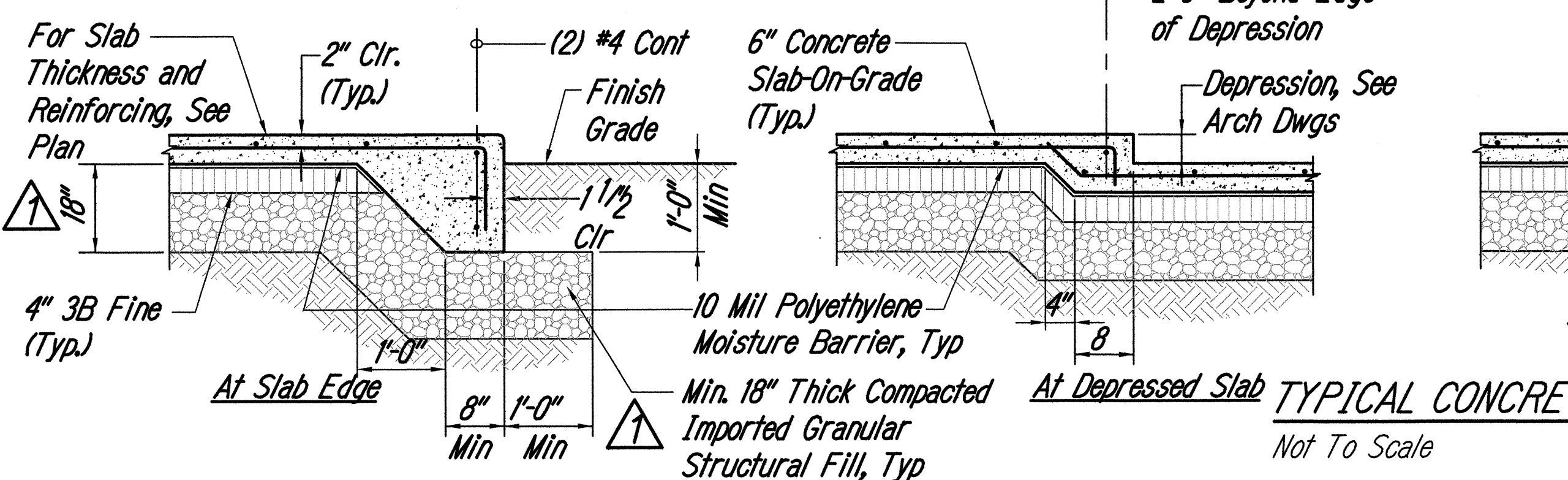
- Rebar Dowel Setting Procedure:**
1. Chip and remove loose and damaged CMU block, grout all existing ungrouted cells two feet from cut out. Patch Drilled hole and Reconstruct CMU block After grouting.
 2. Drill hole of proper diameter and depth using a Carbide Tipped Drill or Corning Bit. Avoid cutting existing reinforcing steel by relocating hole slightly.
 3. Clean thoroughly by vacuum or air pressure.
 4. Make sure that hole is dry and clean before grouting.
 5. Place epoxy grout in hole with caulking gun or similar equipment. Start at bottom, fill hole approximately 1/2 full.
 6. Coat dowel with same epoxy and insert into hole, forcing material around the sides of the bar and completely filling all voids.
 7. Provide support for dowel by tying to rebar or other element until grout has cured.
 8. Epoxy Grout: "HY-150" as manufactured by Hilti Corp. (ICBO No. 5193) install in accordance with the manufacturer's printed instructions.

Minimum Splice and Embedment Lengths					
Concrete Strength = 4,000 PSI					
Bar Size	Lap Splice		Embedment		With Standard Hook
	Top Bars	Other Bars	Straight	With Standard Hook	
#3	26"	20"	20"	16"	8"
#4	34"	26"	26"	20"	10"
#5	42"	32"	32"	24"	12"
#6	50"	38"	38"	30"	16"
#7	72"	54"	54"	42"	18"
#8	82"	62"	62"	48"	20"



- DRILL HOLE SIZE AND EPOXY FILL NOTE**
- Notes:**
1. Length are for concrete with rebar spaced 6 bar diameters min. O.C. Increase bar length 25% for bars spaced less than 6 bar diameters O.C.
 2. "Top Bars" are horizontal bars with 12" or more of concrete cast below.

Saw Cut Note:
Saw Cutting Shall Occur As Soon As Concrete Surface Is Firm Enough To Not Be Torn By Cutting Blade And Before Shrinkage Cracking Occurs, But No Later Than 12 Hours After Concrete Has Been Poured.

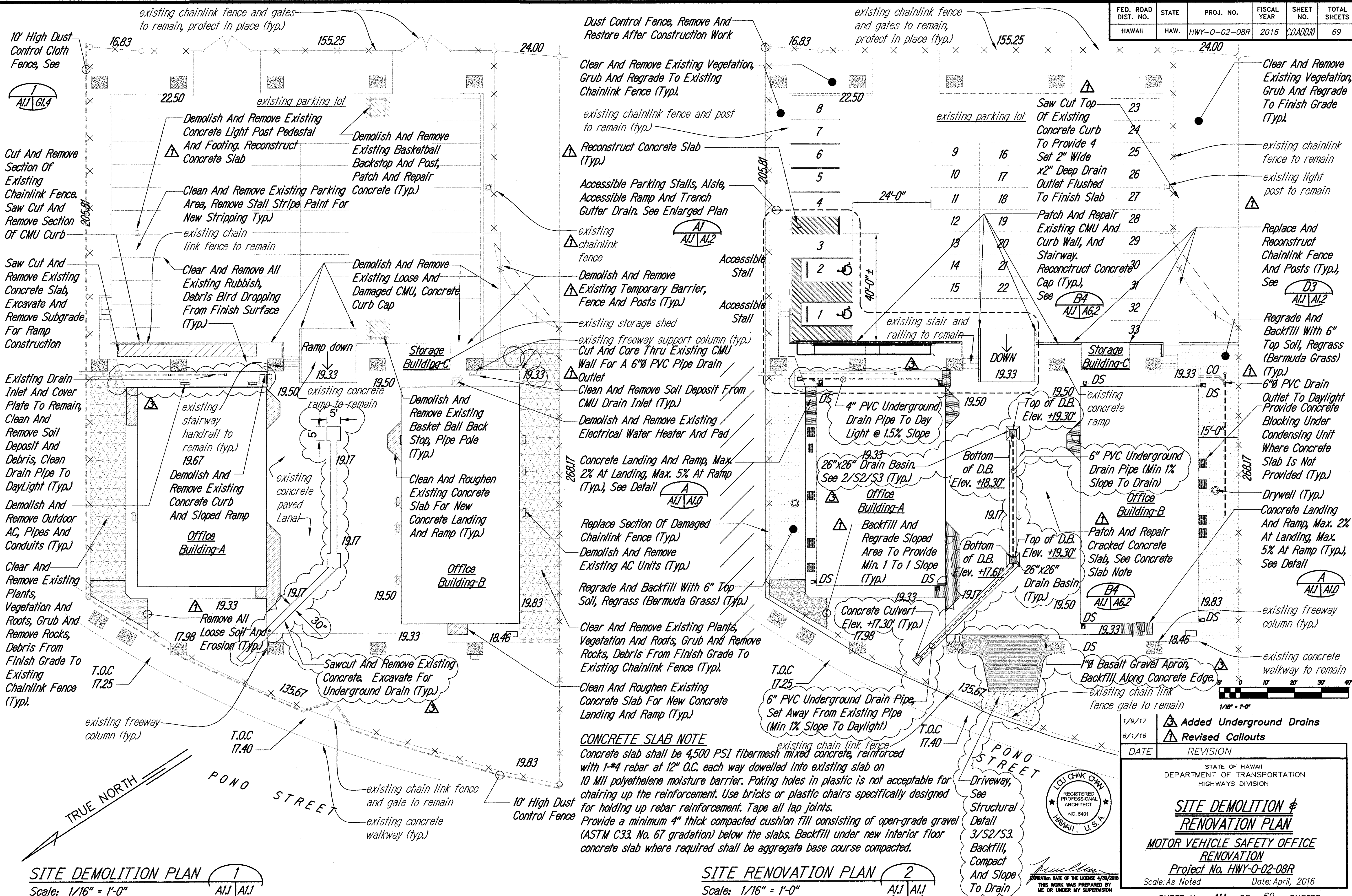


DATE
SURVEY PLOTTED BY
DESIGNED BY
CHECKED BY
NOTE BOOK
QUANTITIES BY
No.



OPERATING DATE OF THE LICENSE 4/20/2018
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-08R	2016	C.O.ADD.10	69



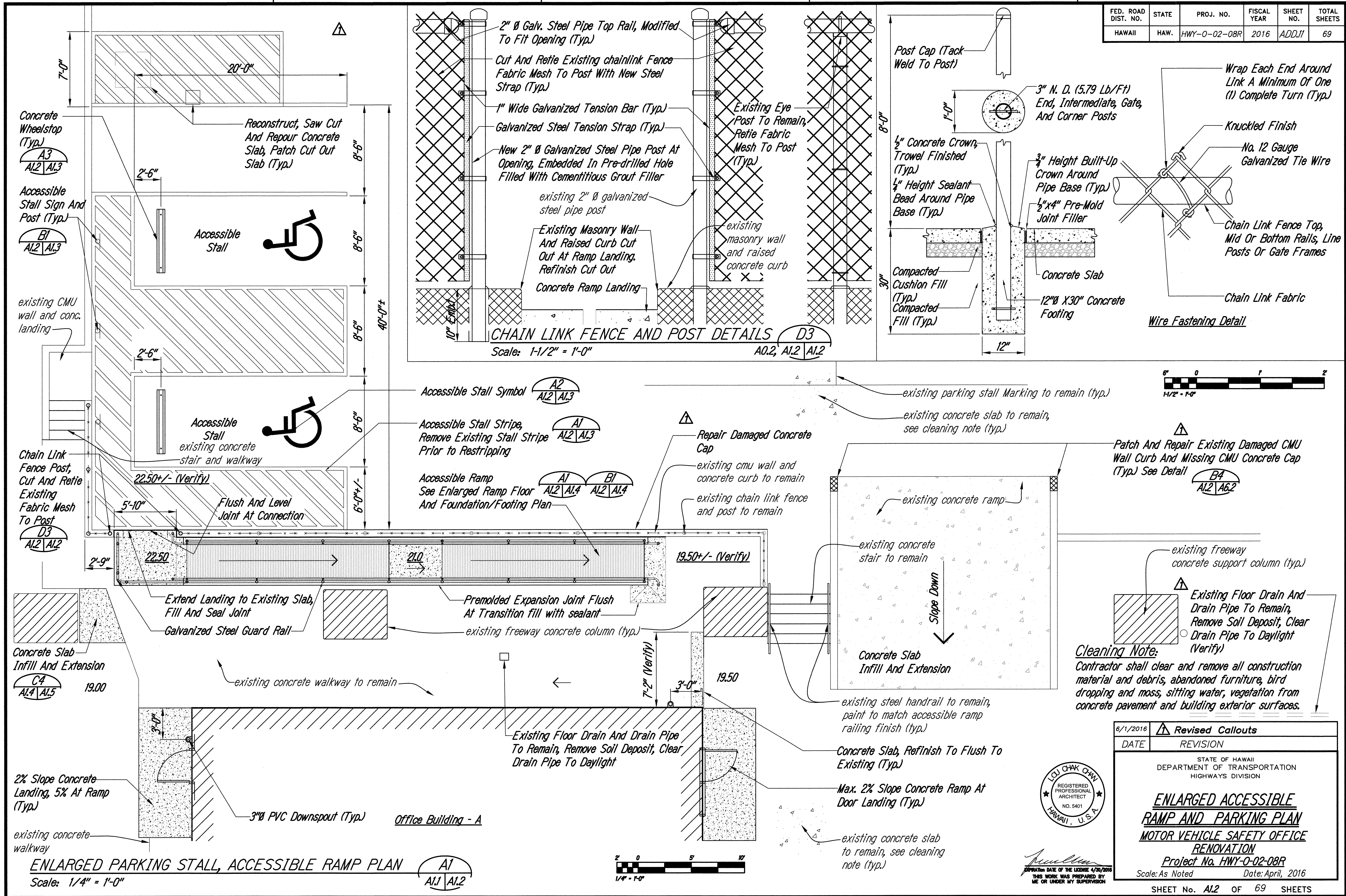
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DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

SITE DEMOLITION PLAN 1
Scale: 1/16" = 1'-0"

SITE RENOVATION PLAN 2
Scale: 1/16" = 1'-0"

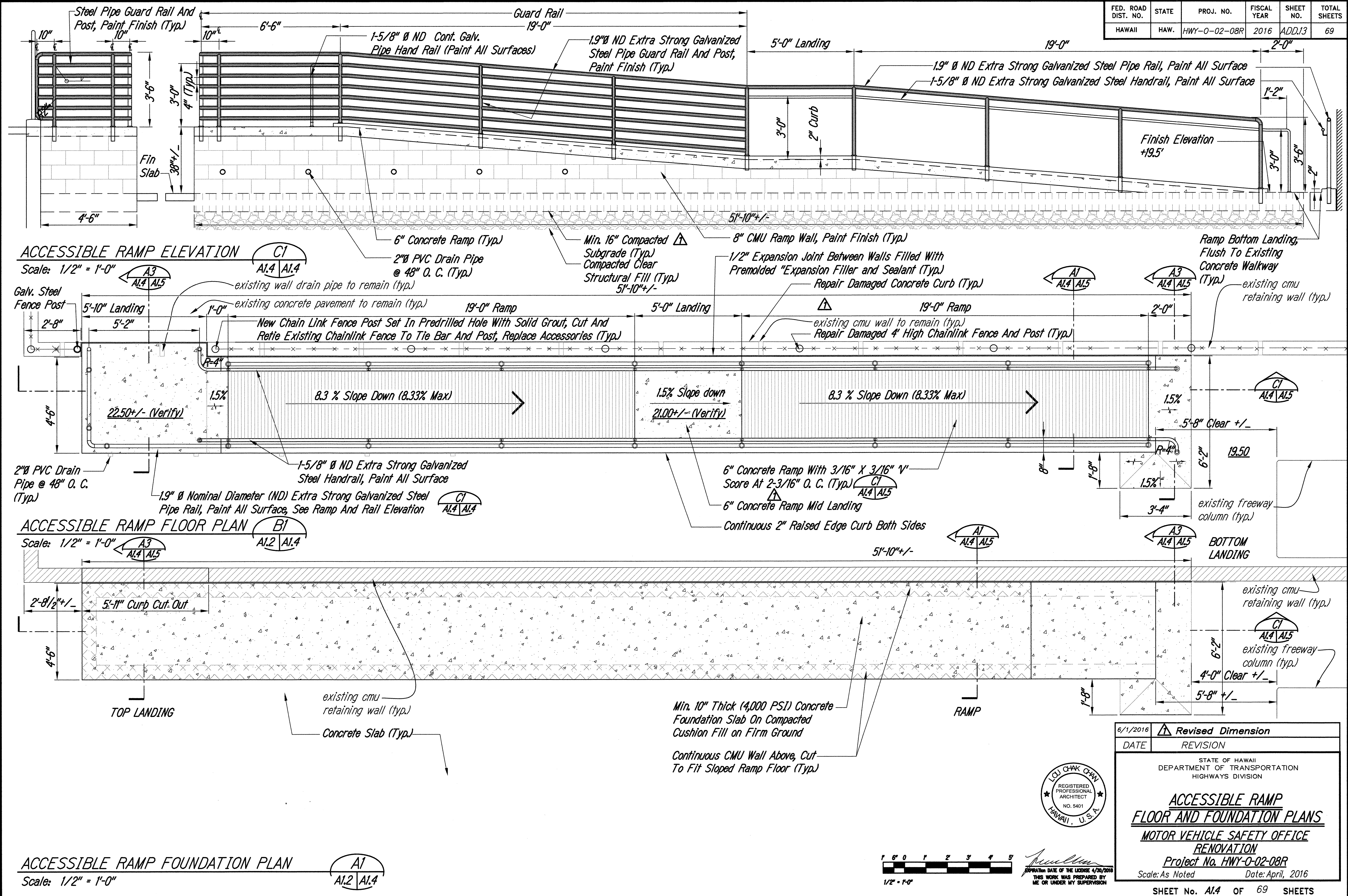
1/9/17	Added Underground Drains
6/1/16	Revised Callouts
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
SITE DEMOLITION & RENOVATION PLAN	
MOTOR VEHICLE SAFETY OFFICE RENOVATION	
Project No. HWY-0-02-08R	
Scale: As Noted	Date: April, 2016
SHEET No. A/J OF 69 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-08R	2016	ADD.11	69



SEPARATION DATE OF THE LICENSE 4/30/2018
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-08R	2016	ADD.13	69

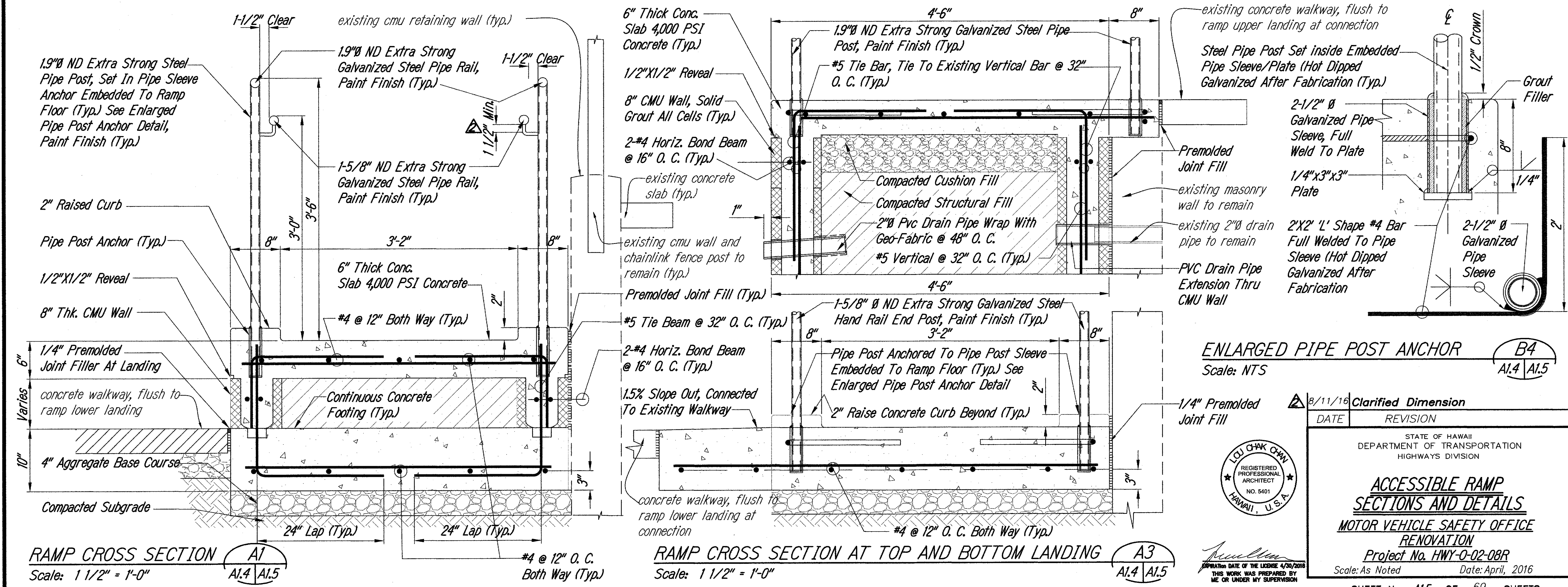
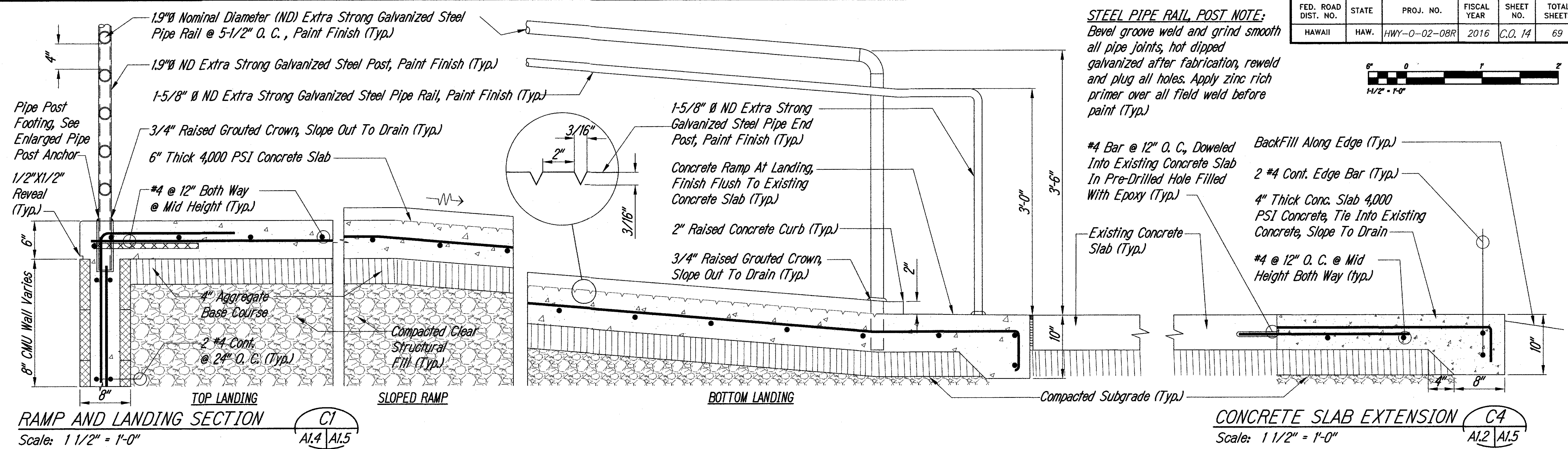


SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	



6/1/2016	Revised Dimension
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ACCESSIBLE RAMP FLOOR AND FOUNDATION PLANS	
MOTOR VEHICLE SAFETY OFFICE RENOVATION	
Project No. HWY-0-02-08R	
Scale: As Noted	Date: April, 2016
SHEET No. A1.4 OF 69 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-08R	2016	C.O. 14	69



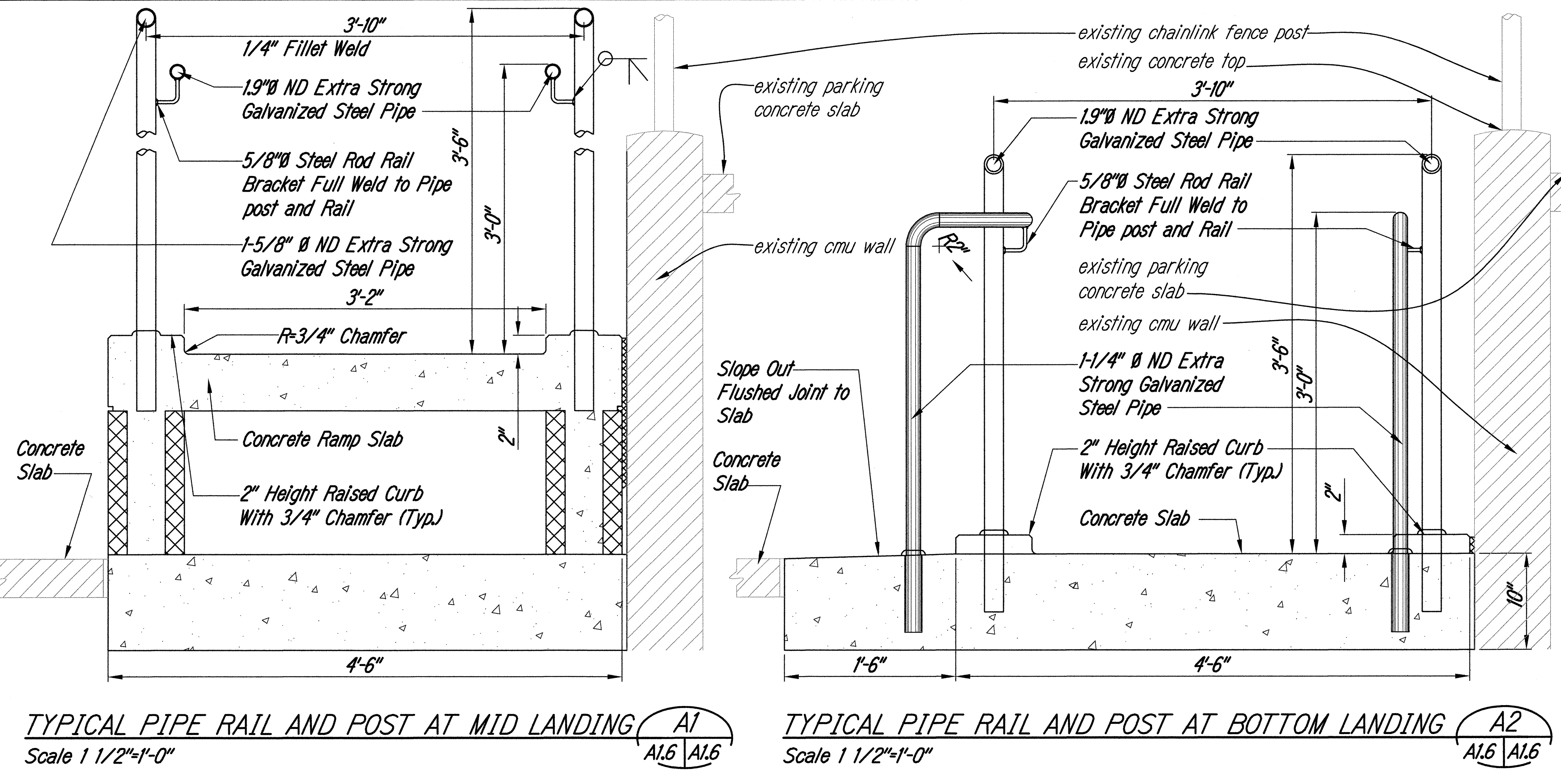
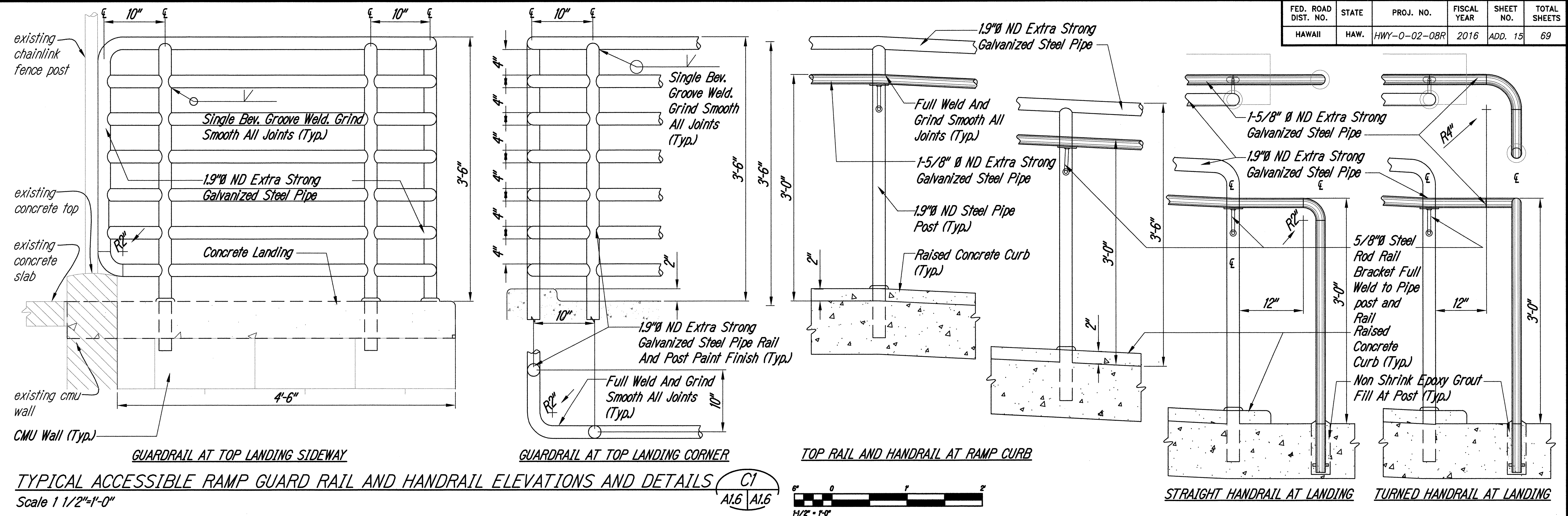
DATE	...
DESIGNED BY	...
CHECKED BY	...
NOTED BY	...
ORIGINAL PLAN	...



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DATE	REVISION
8/11/16	Clarified Dimension
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ACCESSIBLE RAMP SECTIONS AND DETAILS	
MOTOR VEHICLE SAFETY OFFICE	
RENOVATION	
Project No. HWY-0-02-08R	
Scale: As Noted	Date: April, 2016

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-08R	2016	ADD. 15	69

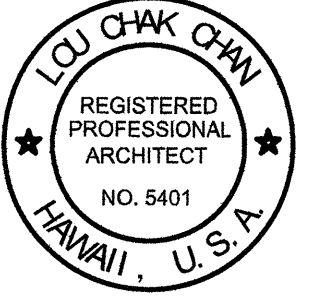


STEEL PIPE RAIL AND POST
 Railing for ramp railing shall be A316 stainless steel, 1.9"Ø ND (Nominal Diameter) Schedule 80 for guard and top rail, post, 1-5/8"Ø ND for handrail and handrail end post, grind smooth all cut and welding joints. Hot dipped galvanized after fabrication. Field weld to fill gaps and plug holes. Apply zinc rich primer before painting.

WELDING
 Welding symbols may not shown in all drawings for clarity. All pipe rail and post connections Except as noted shall be shop welded fillet or butt welds at full thickness and along all contacting surfaces whichever is applicable. Field weld allow only if shop weld is not practical and shall be kept to minimum. All welding shall be performed by certified welder(s). Welds shall develop full strength of the connecting members.

RAIL POST EMBEDDED TO CONCRETE
 Provide removable block out for rail post prior to pouring of concrete slab. Rail post embedded into existing concrete slab and grout shall be pre-drilled and cored out to provide a minimum 8" deep embedment. Fill gap space with non-shrink adhesive epoxy grout. Construct a minimum 1/2" height raised built-up concave crown around each post after setting of rail post to shed off water.

SURVEY PLOTTED BY	DATE
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ORIGINAL PLAN	
NOTE BOOK	
NO.	



6/1/2016	Revised Notes
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ACCESSIBLE RAMP AND WALKWAY SECTIONS	
MOTOR VEHICLE SAFETY OFFICE RENOVATION	
Project No. HWY-0-02-08R	
Scale: As Noted	Date: April, 2016
SHEET No. A1.6 OF 69 SHEETS	