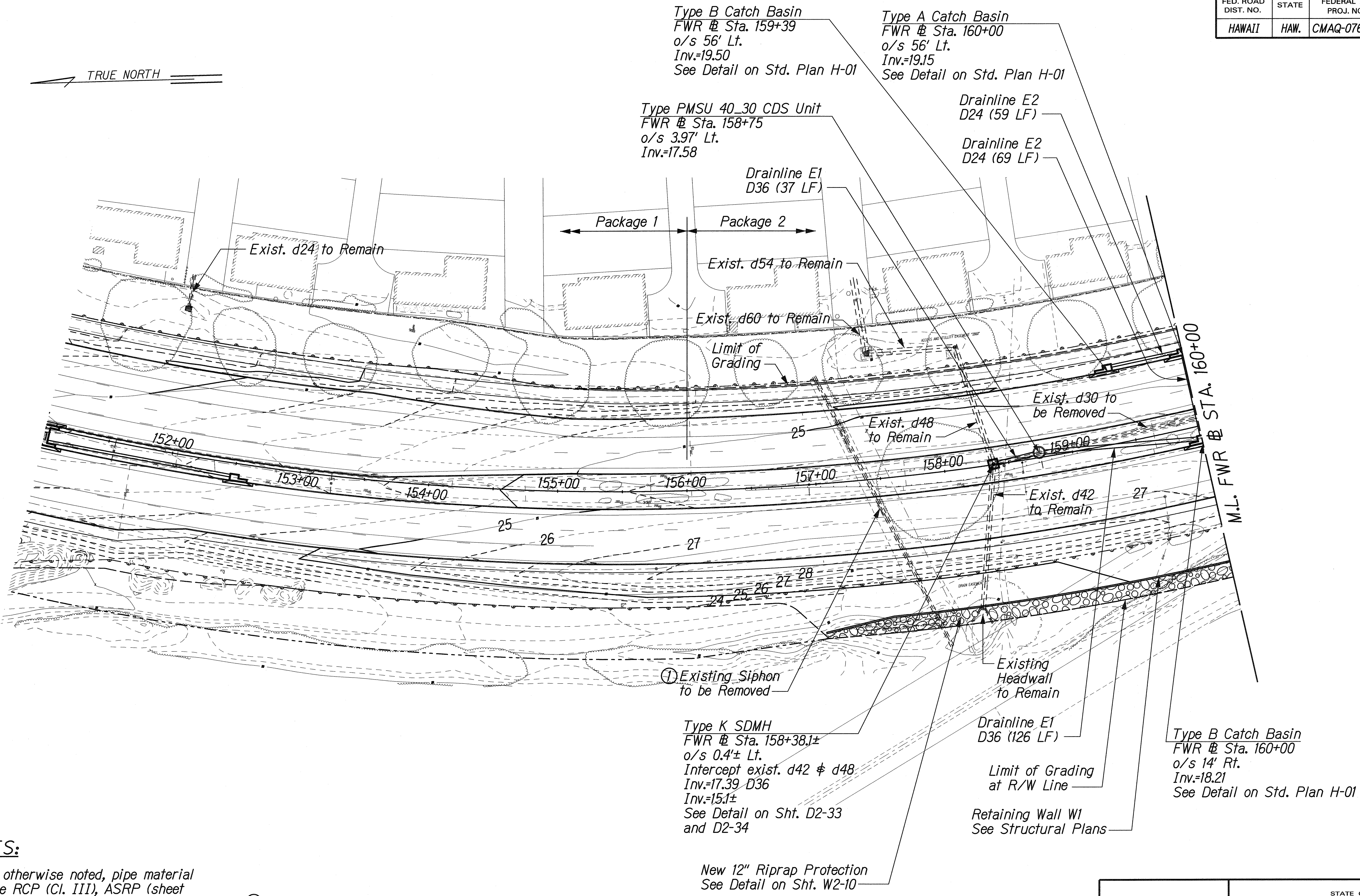


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	111	371



NOTES:

- Unless otherwise noted, pipe material shall be RCP (Cl. III), ASRP (sheet thickness 0.105 inch), or HDPE (Type S). Where feasible, same pipe material shall be used for all pipes within a drainage system.
 - See sheets R2-45 and R2-46 for Trench Restoration details and Typical Section for Permeable Base Course.
- ① Existing siphons crossing the highway shall be removed in its entirety, including segments outside the R/W. All effluent contained within the siphon shall be properly disposed of. The ground shall be restored to a condition equal to or better than existing.

DESIGNED BY	DATE
DRAWN BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

64/FORT WEAVER ROAD/DRAIN/GRADING.dgn

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE: *R. Urashima* EXPIRATION DATE: 04/30/10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

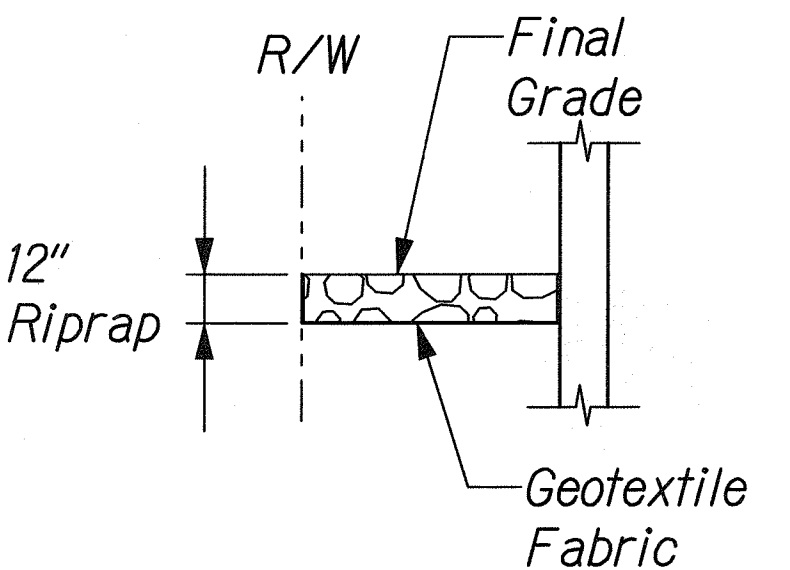
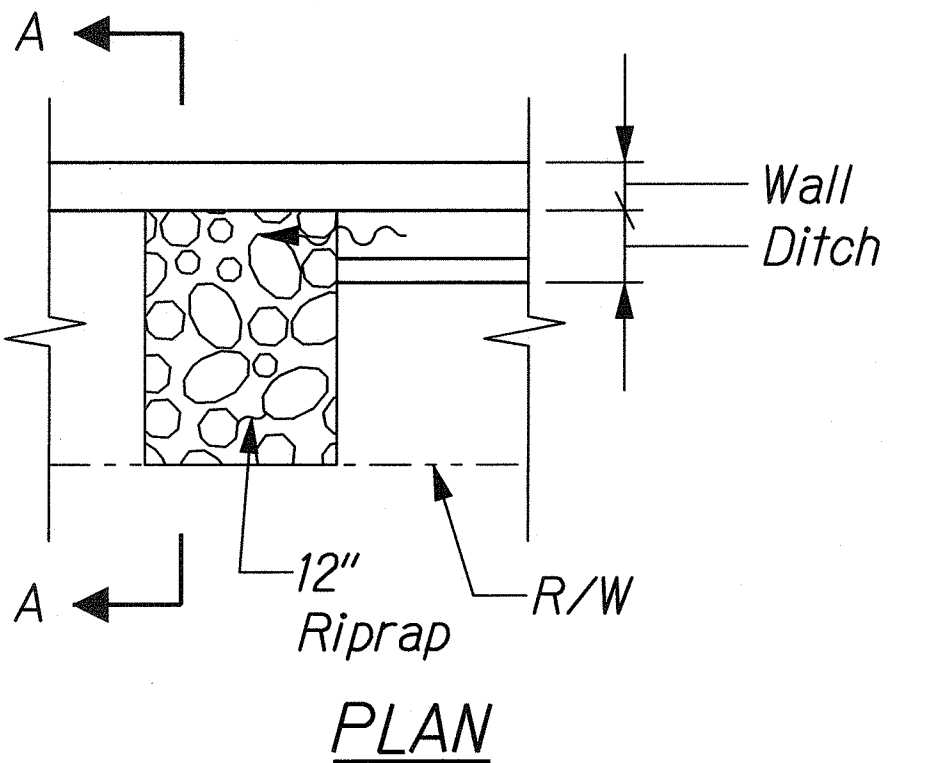
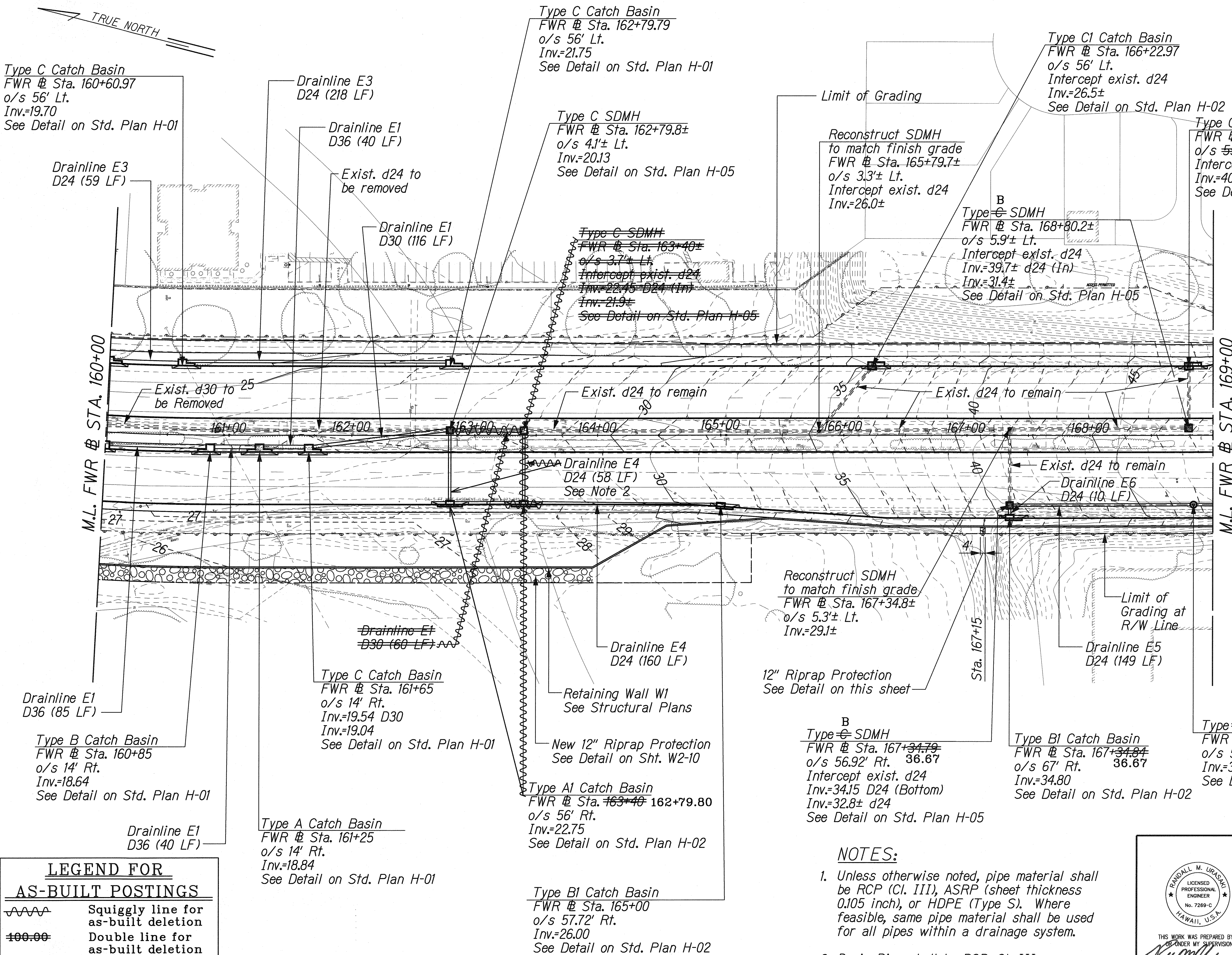
DRAINAGE & GRADING PLAN
STA. 151+00 TO 160+00

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Feb. 22, 2008

SHEET No. D2-1 OF 34 SHEETS

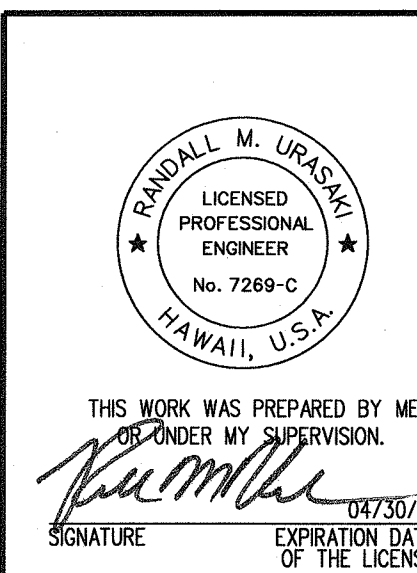
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	112	371



RIPRAP DETAIL AT STA. 167+15
Scale: 1/4"=1'

NOTES:

1. Unless otherwise noted, pipe material shall be RCP (Cl. III), ASRP (sheet thickness 0.105 inch), or HDPE (Type S). Where feasible, same pipe material shall be used for all pipes within a drainage system.
2. Drain Pipe shall be RCP, Cl. III or ASRP, Sheet Thickness 0.105 inch

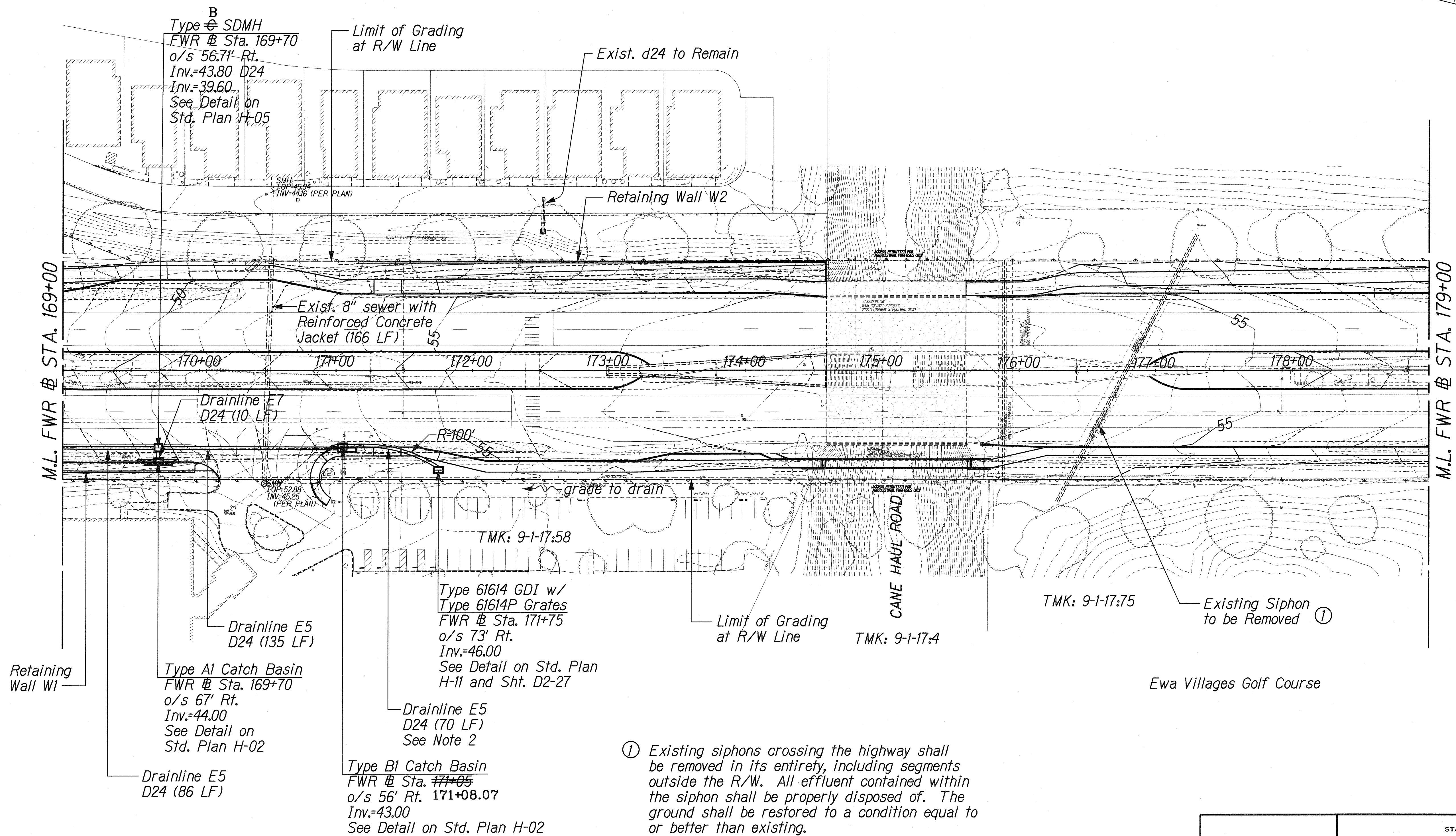


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE & GRADING PLAN
STA. 160+00 TO 169+00
FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Feb. 22, 2008

SHEET No. D2-2 OF 34 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	113	371



NOTES:

- Unless otherwise noted, pipe material shall be RCP (Cl. III), ASRP (sheet thickness 0.105 inch), or HDPE (Type S). Where feasible, same pipe material shall be used for all pipes within a drainage system.
- Drain Pipe shall be High Density Polyethylene Pipe, Type S

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Text for as-built posting

- ① Existing siphons crossing the highway shall be removed in its entirety, including segments outside the R/W. All effluent contained within the siphon shall be properly disposed of. The ground shall be restored to a condition equal to or better than existing.

Approved:

Dennis M. Nishimura
Chief, Wastewater Branch, DPP

3/3/08
Date

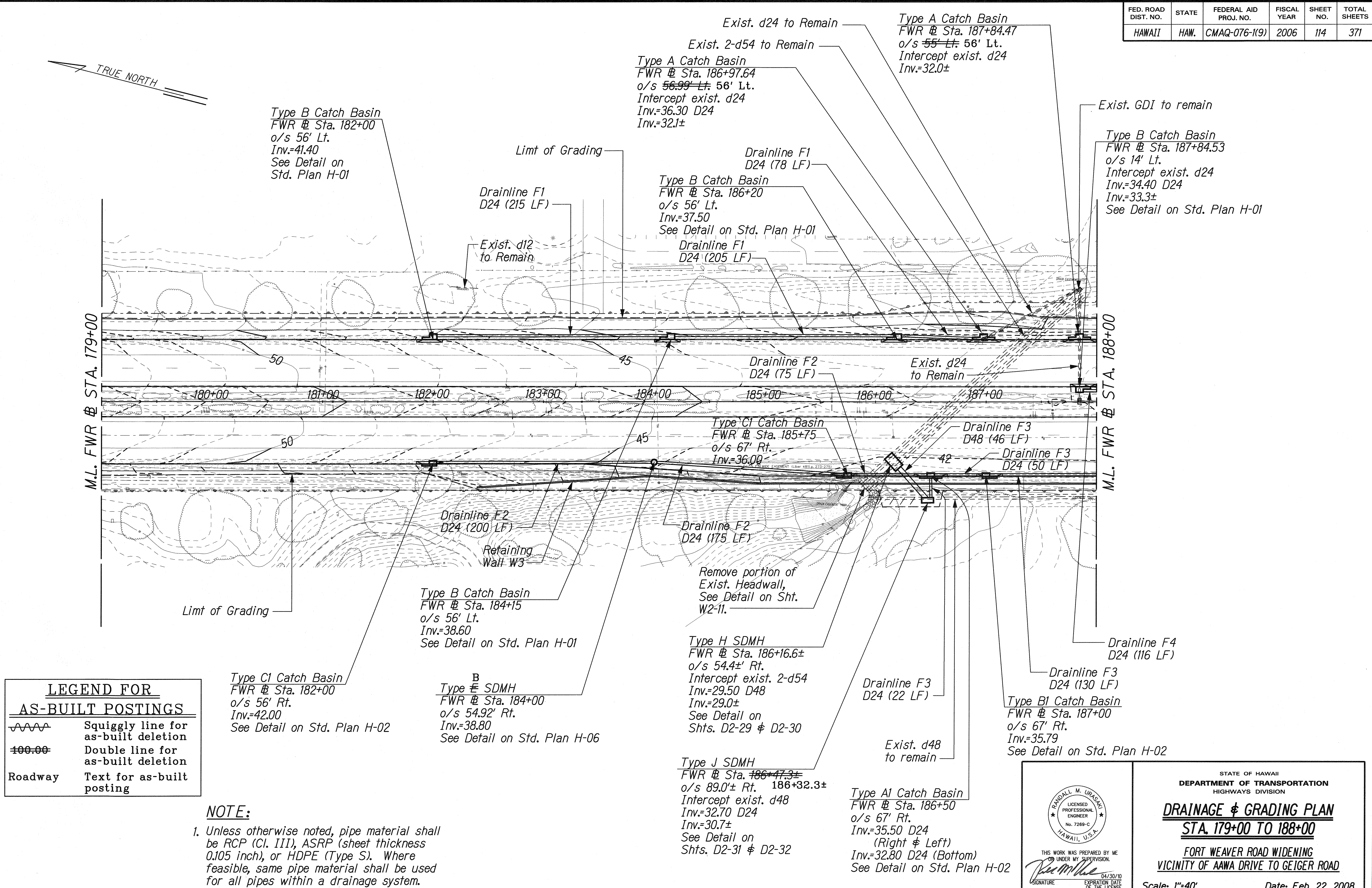
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
	DRAINAGE & GRADING PLAN STA. 169+00 TO 179+00	
	FORT WEAVER ROAD WIDENING VICINITY OF AAWA DRIVE TO GEIGER ROAD	
	Scale: 1" = 40' SHEET No. D2-3 OF 34 SHEETS	Date: Feb. 22, 2008 AS BUILT

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

J:\FORT WEAVER ROAD\RAIN\RAINING.dgn

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	114	371

L:\FORT WEAVER ROAD\DRAIN\DRAIN1.dgn



LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Text for as-built posting

NOTE:

1. Unless otherwise noted, pipe material shall be RCP (Cl. III), ASRP (sheet thickness 0.105 inch), or HDPE (Type S). Where feasible, same pipe material shall be used for all pipes within a drainage system.

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE: *R. Uraski* EXPIRATION DATE: 04/30/10 OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

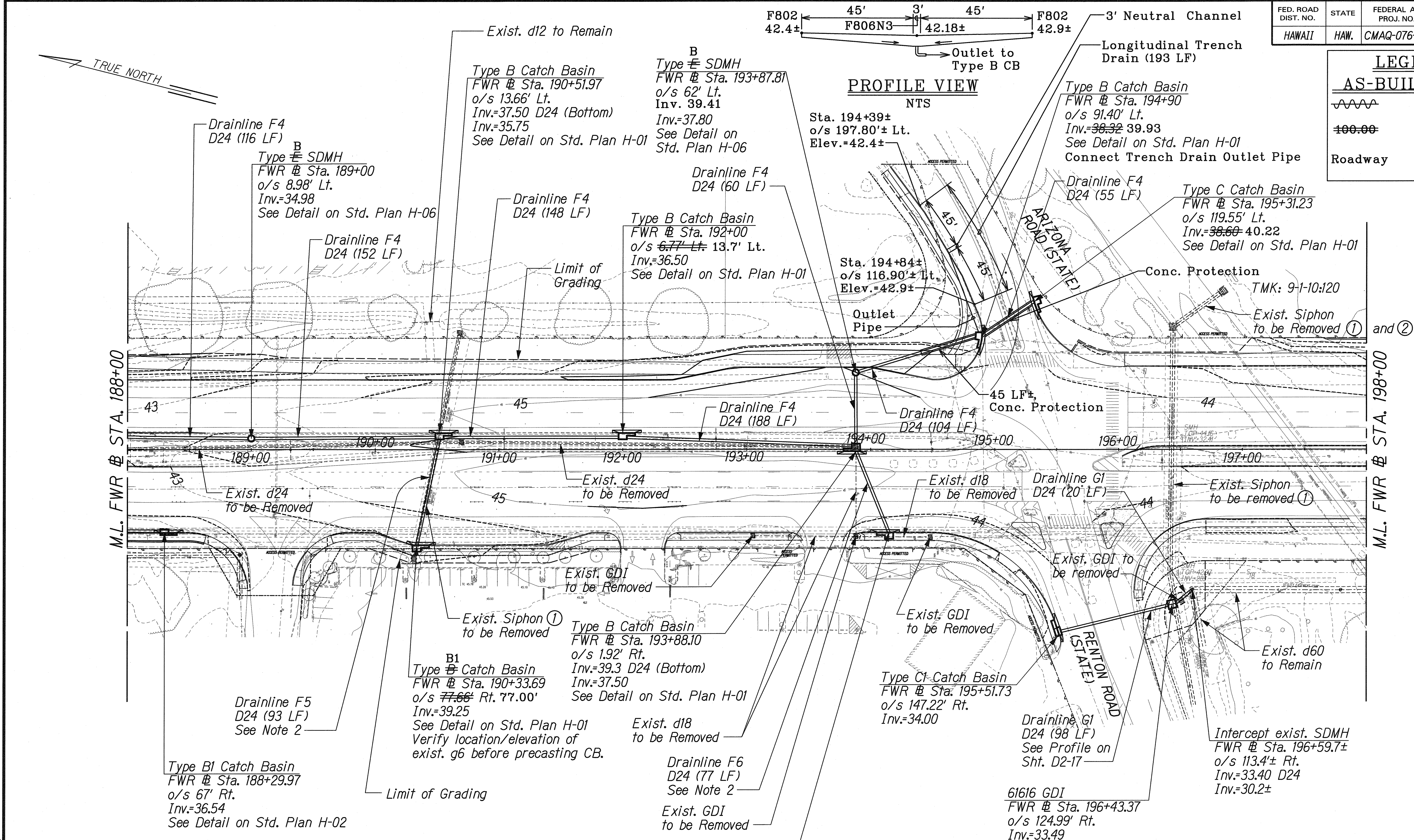
DRAINAGE & GRADING PLAN
STA. 179+00 TO 188+00

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1"=40' Date: Feb. 22, 2008

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	115	371

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting



- ① Existing siphons crossing the highway shall be removed in its entirety, including segments outside the R/W. All effluent contained within the siphon shall be properly disposed of. The ground shall be restored to a condition equal to or better than existing.
- ② Restore railroad tracks. See Track Reconstruction Detail on Sheet R2-29.

- NOTES:**
- Unless otherwise noted, pipe material shall be RCP (Cl. III), ASRP (sheet thickness 0.105 inch), or HDPE (Type S). Where feasible, same pipe material shall be used for all pipes within a drainage system.
 - Drain Pipe shall be RCP, Cl. III or ASRP, Sheet Thickness 0.105 inch

Approved: Dennis M. Nishimura 3/3/08
 Chief, Wastewater Branch, DPP w Date

THIS WORK WAS PREPARED BY ME
 UNDER MY SUPERVISION.
 SIGNATURE: Ram M. Uralski 04/30/10
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

DRAINAGE & GRADING PLAN
STA. 188+00 TO 198+00

FORT WEAVER ROAD WIDENING
 VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1"=40' Date: Feb. 22, 2008

SHEET No. D2-5 OF 34 SHEETS

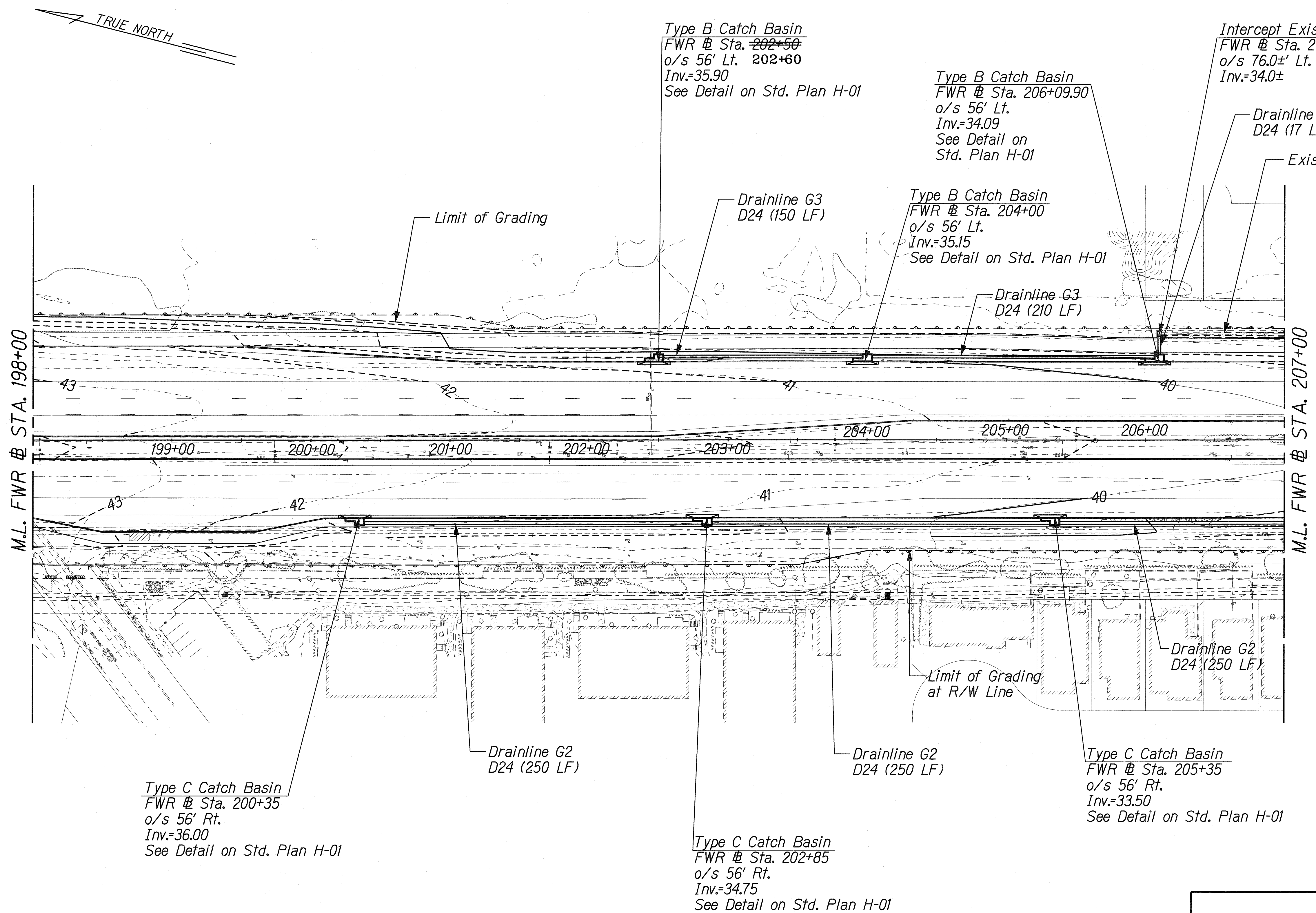
SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
DESIGNED BY	
QUANTITIES BY	
NOTE BOOK	
No.	

J:\FORT WEAVER ROAD\RAIN\RAIN.dgn

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	116	371

LEGEND FOR AS-BUILT POSTINGS

	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting



NOTE:

1. Unless otherwise noted, pipe material shall be RCP (Cl. III), ASRP (sheet thickness 0.105 inch), or HDPE (Type S). Where feasible, same pipe material shall be used for all pipes within a drainage system.

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

6/FORT WEAVER ROAD/DRAIN/DRAIN.dgn

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OR UNDER MY SUPERVISION.
SIGNATURE: *R. Uraski* EXPIRATION DATE: 04/30/10 OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

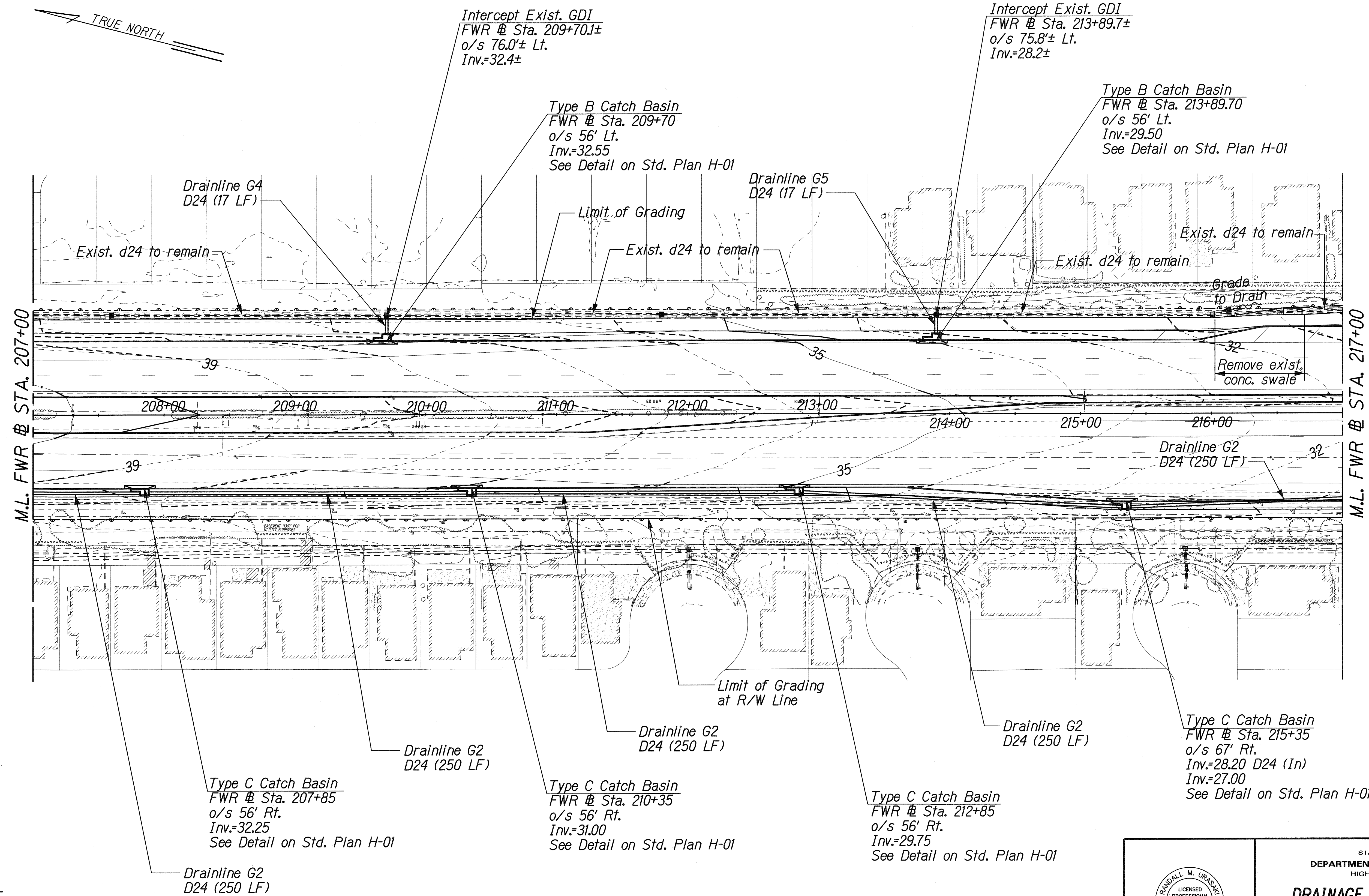
DRAINAGE & GRADING PLAN
STA. 198+00 TO 207+00

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Feb. 22, 2008

SHEET No. D2-6 OF 34 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	117	371



NOTE:

1. Unless otherwise noted, pipe material shall be RCP (Cl. III), ASRP (sheet thickness 0.105 inch), or HDPE (Type S). Where feasible, same pipe material shall be used for all pipes within a drainage system.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE & GRADING PLAN
STA. 207+00 TO 217+00

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Feb. 22, 2008

SHEET No. D2-7 OF 34 SHEETS

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

[Signature]

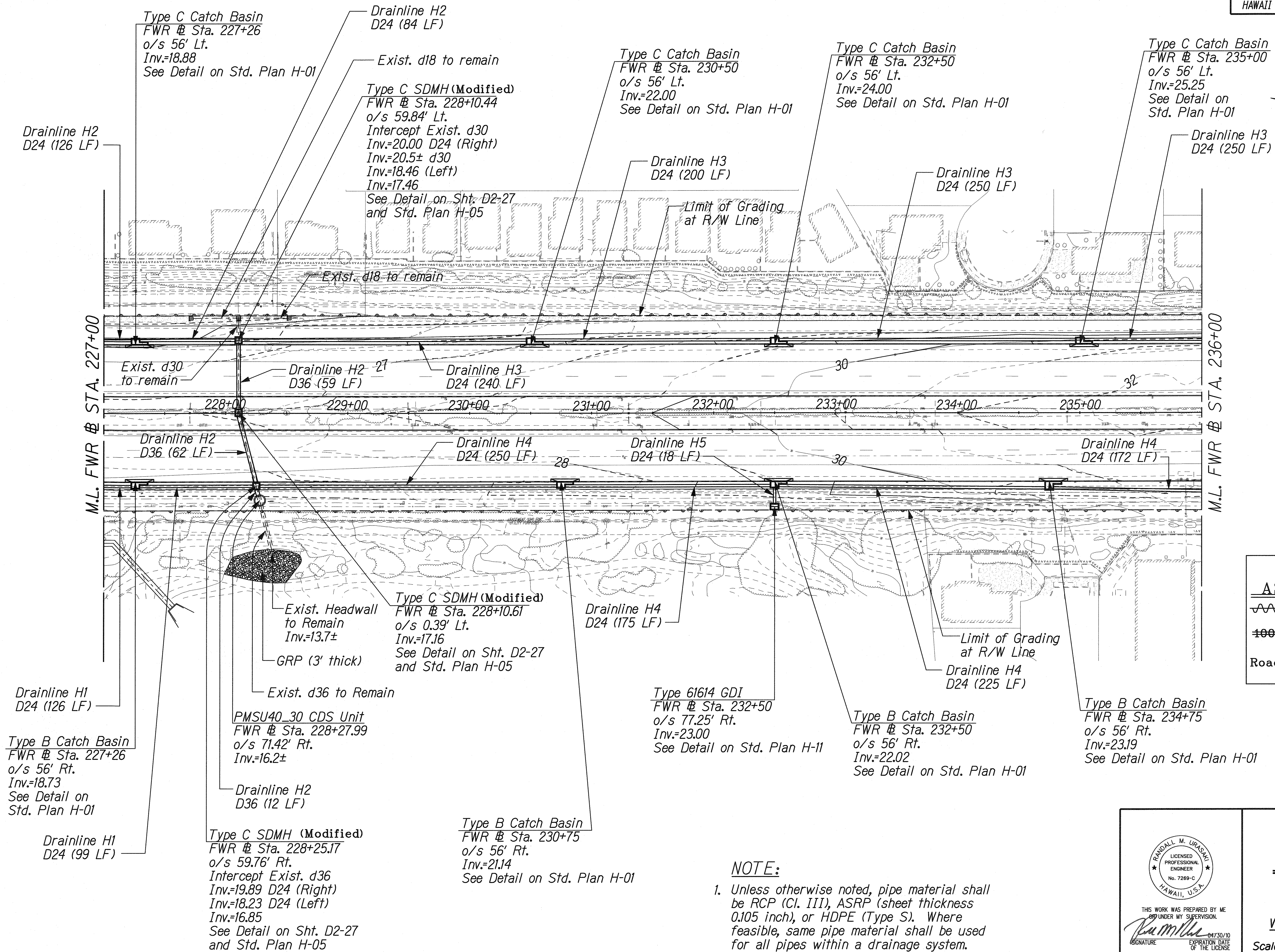
EXPIRATION DATE OF THE LICENSE: 04/30/10

RANDALL M. URASKI
LICENSED PROFESSIONAL ENGINEER
No. 7269-C
HAWAII, USA

DESIGNED BY	DATE
TRACED BY	
NOTED BY	
CHECKED BY	
IN CHARGE	

J:\FORT WEAVER ROAD\DRAWING\DRAWING.dgn

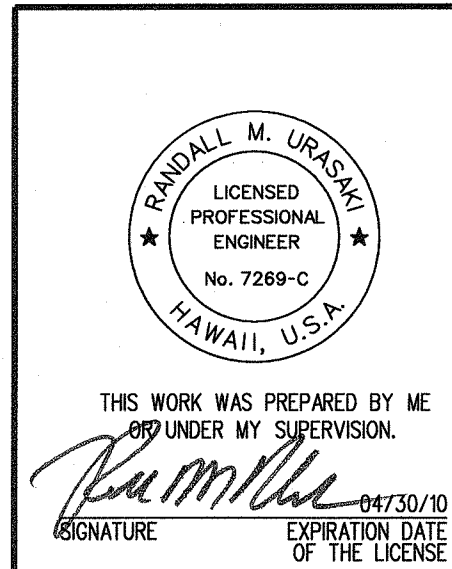
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	119	371



LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

NOTE:

1. Unless otherwise noted, pipe material shall be RCP (Cl. III), ASRP (sheet thickness 0.105 inch), or HDPE (Type S). Where feasible, same pipe material shall be used for all pipes within a drainage system.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE & GRADING PLAN
STA. 227+00 TO 236+00

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

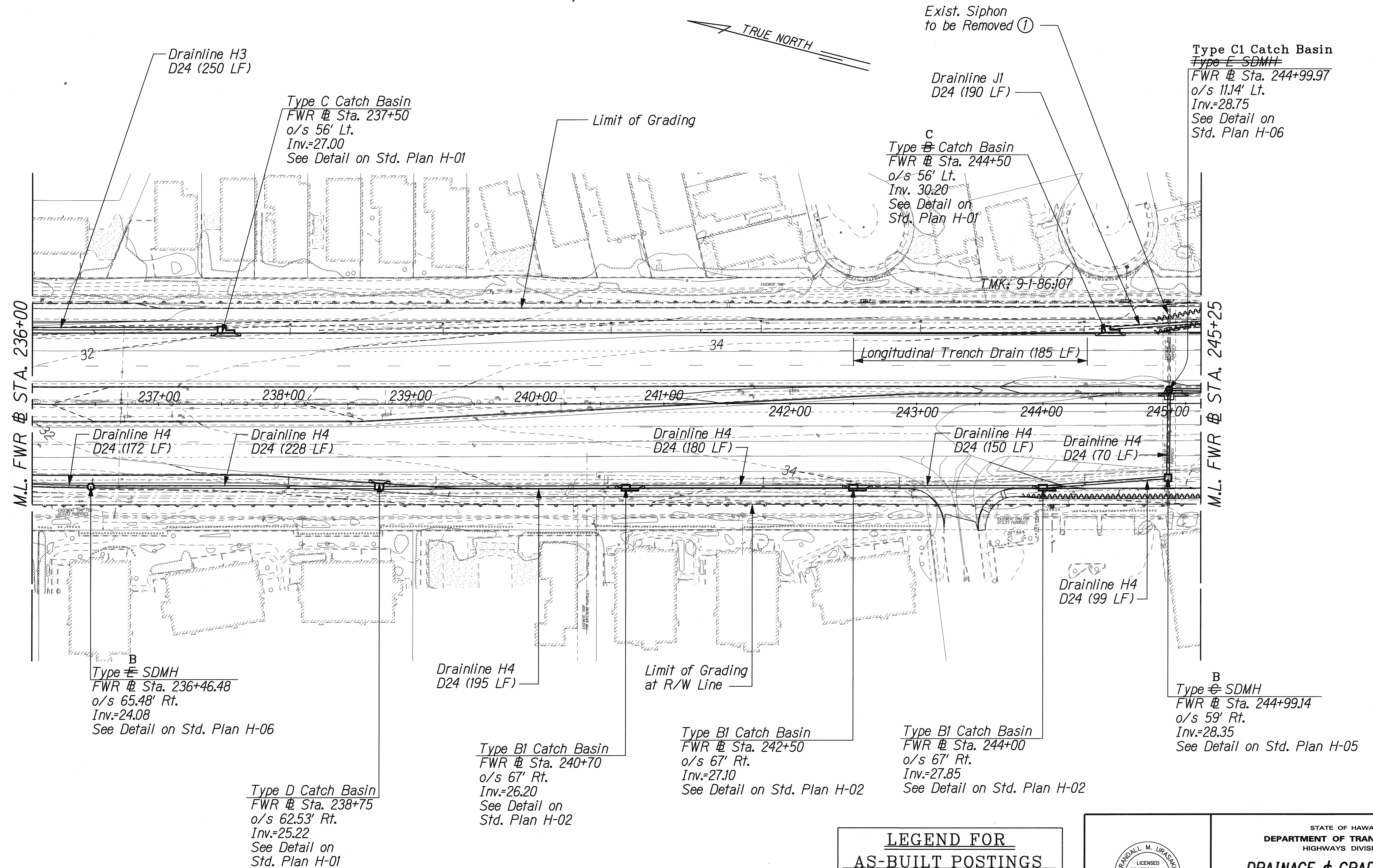
Scale: 1" = 40' Date: Feb. 22, 2008

SHEET No. D2-9 OF 34 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	

L:\FORT WEAVER ROAD\DRAWING\DRAWING\229.dgn

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	120	371

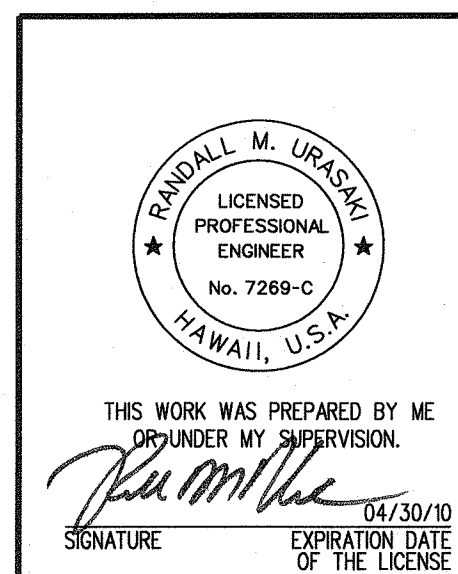


NOTE:

1. Unless otherwise noted, pipe material shall be RCP (Cl. III), ASRP (sheet thickness 0.105 inch), or HDPE (Type S). Where feasible, same pipe material shall be used for all pipes within a drainage system.

- ① Existing siphons crossing the highway shall be removed in its entirety, including segments outside the R/W. All effluent contained within the siphon shall be properly disposed of. The ground shall be restored to a condition equal to or better than existing.

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE & GRADING PLAN
STA. 236+00 TO 245+25

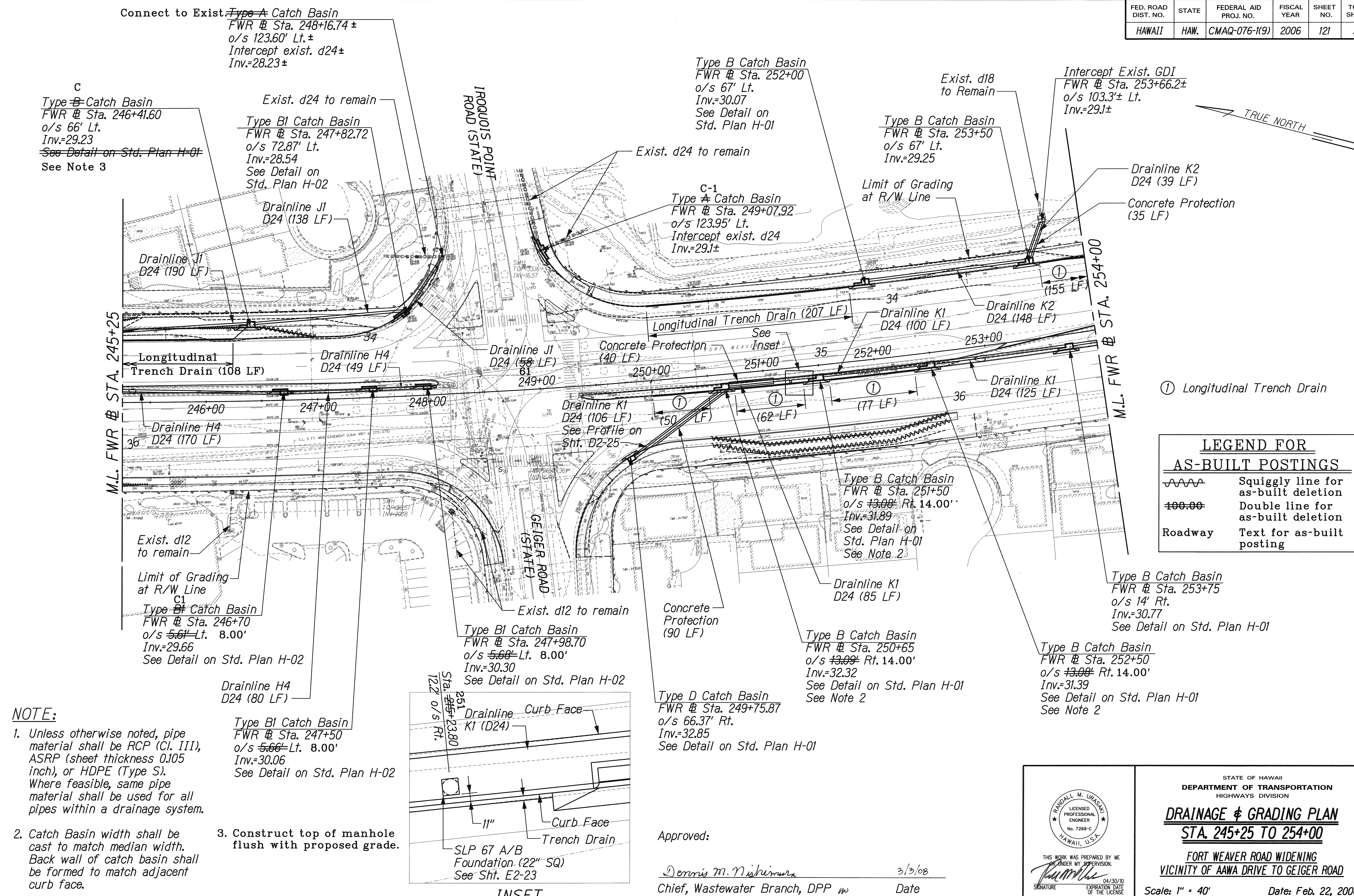
FORT WEAVER ROAD WIDENING
VICINITY OF AWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Feb. 22, 2008

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

U:\FORT WEAVER ROAD\DRAWING\RAIN\34.dgn

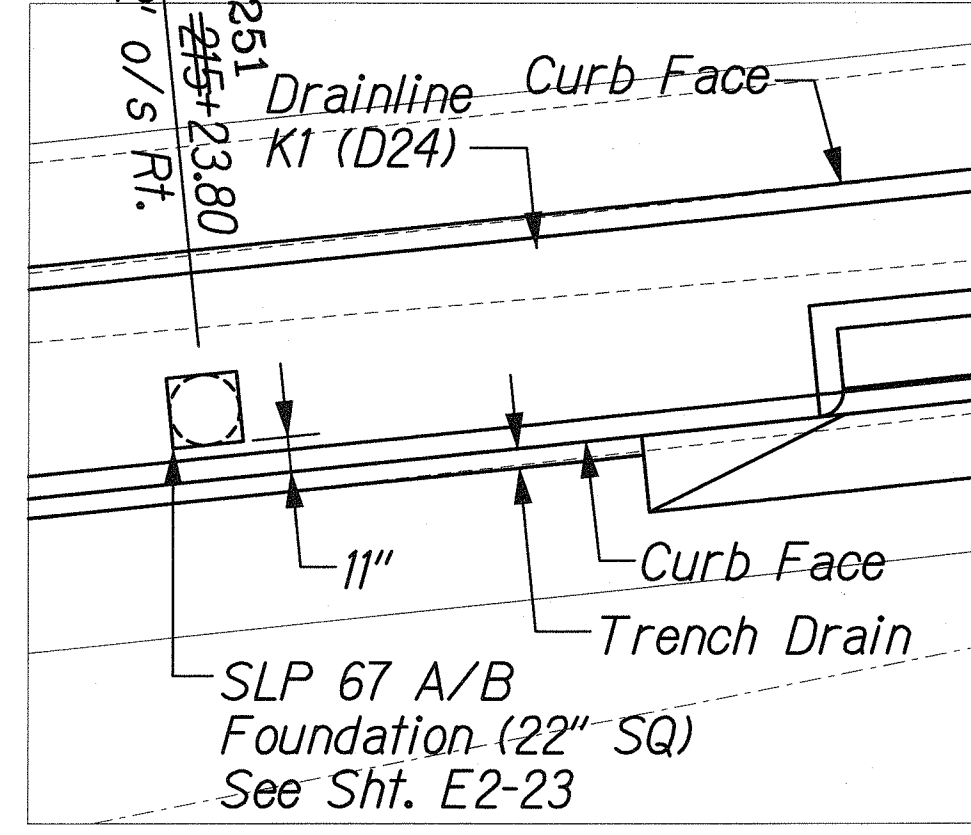
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-K(9)	2006	121	371



① Longitudinal Trench Drain

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

- NOTE:**
- Unless otherwise noted, pipe material shall be RCP (Cl. III), ASRP (sheet thickness 0.105 inch), or HDPE (Type S). Where feasible, same pipe material shall be used for all pipes within a drainage system.
 - Catch Basin width shall be cast to match median width. Back wall of catch basin shall be formed to match adjacent curb face.
 - Construct top of manhole flush with proposed grade.



INSET

Approved: Dennis M. Nishimura 3/3/08
 Chief, Wastewater Branch, DPP m Date

THIS WORK WAS PREPARED BY ME UNDER MY SUPERVISION.
 SIGNATURE: Randall M. Uraski 04/30/10
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

DRAINAGE & GRADING PLAN
STA. 245+25 TO 254+00

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

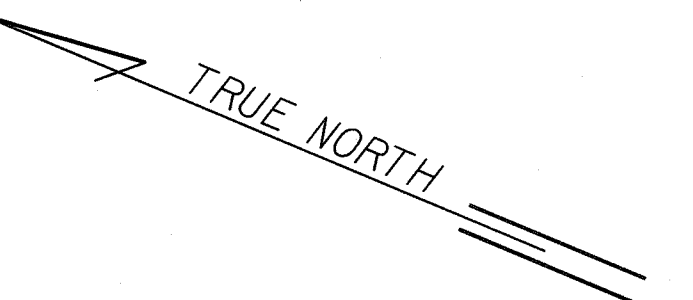
Scale: 1" = 40' Date: Feb. 22, 2008

SHEET No. D2-11 OF 34 SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
IN CHARGE	

J:\FORT WEAVER ROAD\DRAIN\DRAIN4.dgn

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	122	371



Type B Catch Basin
FWR @ Sta. 254+85
o/s 13.43' Rt.
Inv.=30.22
See Detail on
Std. Plan H-01

Exist. d18
to Remain

Intercept Exist. GDI
FWR @ Sta. 257+78.8±
o/s 106.4'± Lt.
Inv.=28.1±

Concrete Protection
(40 LF)

Limit of Grading

M.L. FWR @ STA. 254+00

Longitudinal
Trench Drain
(#55 LF)
190 LF

Drainline K1
D24 (110 LF)

Drainline K1
D24 (112 LF)

Drainline K1
D24 (140 LF)

Type B Catch Basin
FWR @ Sta. 256+25
o/s 13.42' Rt.
Inv.=29.52
See Detail on
Std. Plan H-01

Drainline K1
D24 (154 LF)

B
Type C SDMH
FWR @ Sta. 257+78.81
o/s 5.22' Rt.
Inv.=28.70
See Detail on Std. Plan H-05

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

NOTE:

1. Unless otherwise noted, pipe material shall be RCP (Cl. III), ASRP (sheet thickness 0.105 inch), or HDPE (Type S). Where feasible, same pipe material shall be used for all pipes within a drainage system.

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	

\\FORT-WEAVER-ROAD\DRAWING\DRAWING.dgn

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.
R. Uraski
SIGNATURE
04/30/10
EXPIRATION DATE
OF THE LICENSE

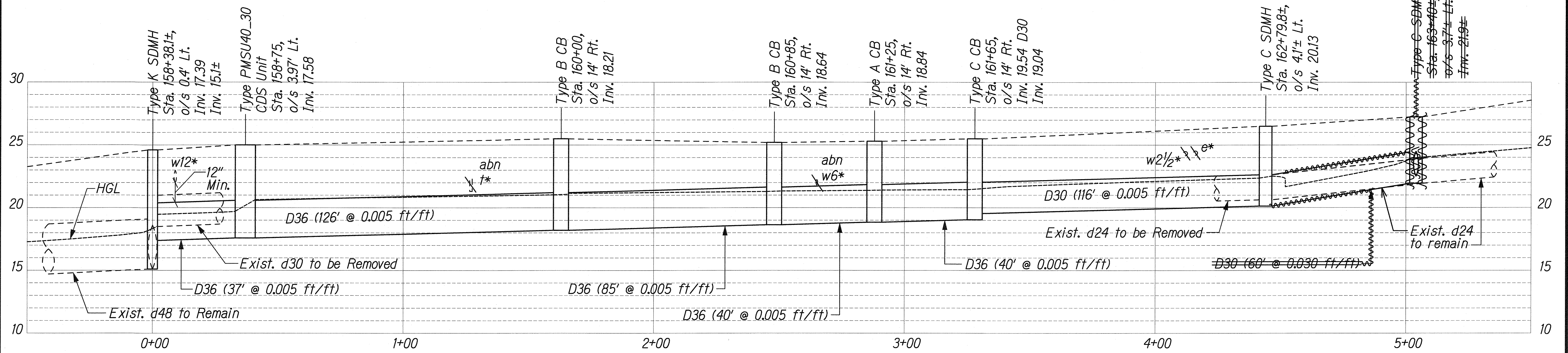
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE & GRADING PLAN
STA. 254+00 TO 263+00

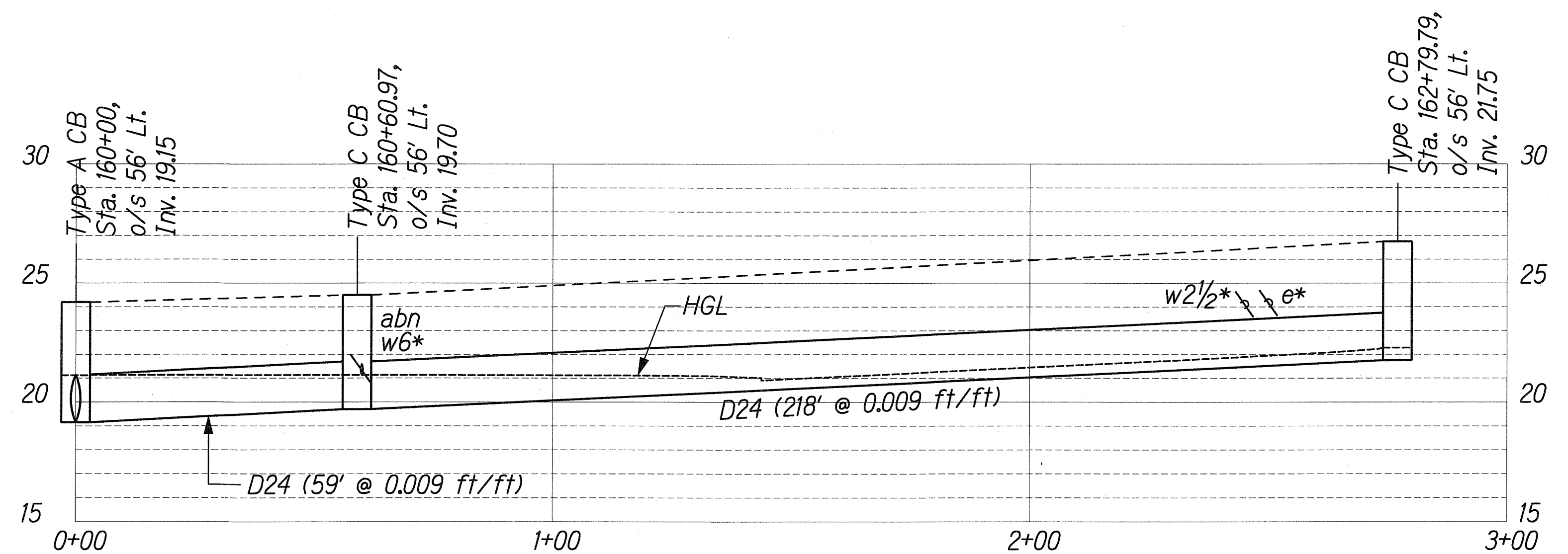
FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Feb. 22, 2008

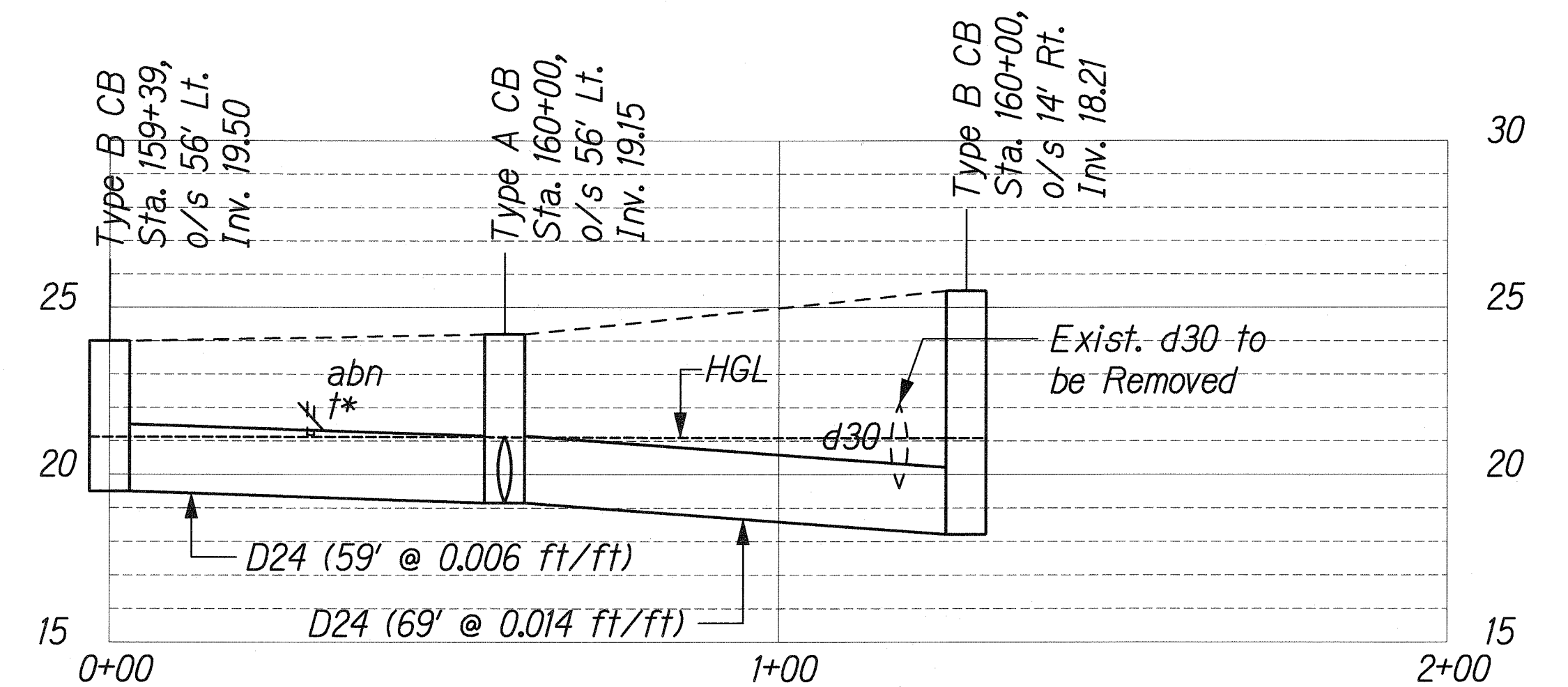
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	123	371



PROFILE - DRAINLINE E1
Scale: Horiz. 1"=20'
Vert. 1"=4'



PROFILE - DRAINLINE E3
Scale: Horiz. 1"=20'
Vert. 1"=4'



PROFILE - DRAINLINE E2
Scale: Horiz. 1"=20'
Vert. 1"=4'

LEGEND FOR AS-BUILT POSTINGS

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==== Double line for as-built deletion

Roadway Text for as-built posting

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**DRAINAGE PROFILES - 1**

FORT WEAVER ROAD WIDENING  
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: As Shown Date: Feb. 22, 2008

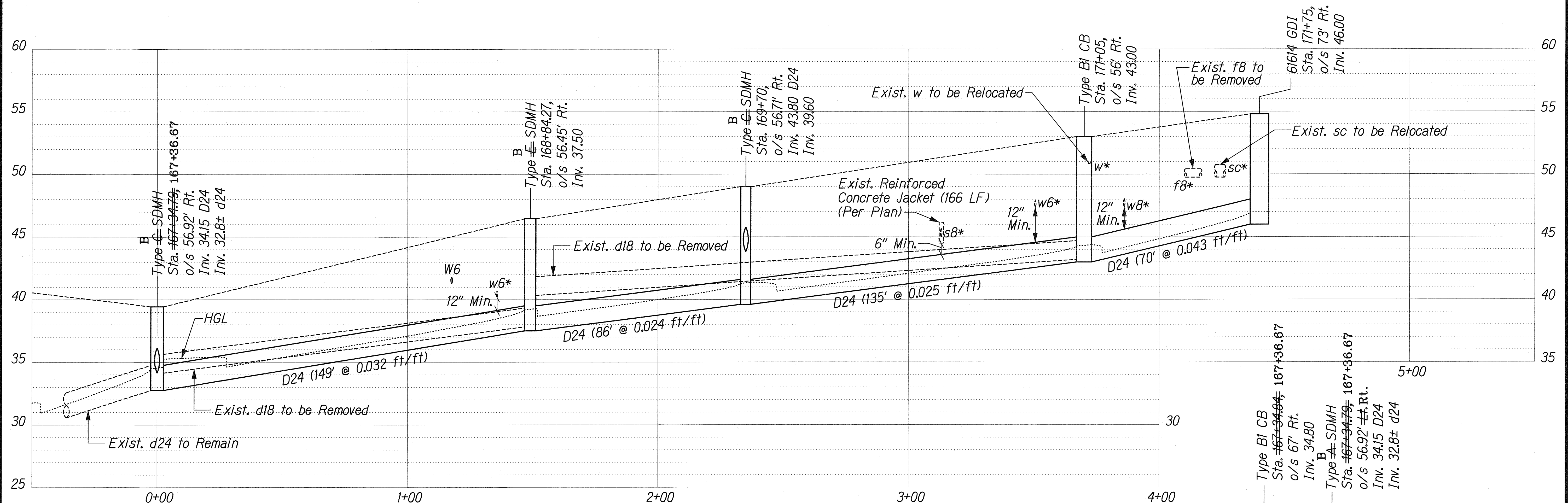
SHEET No. D2-13 OF 34 SHEETS

AS BUILT 123

|               |               |
|---------------|---------------|
| ORIGINAL PLAN | DATE          |
| NOTED BY      | DESIGNED BY   |
| NOTED BY      | QUANTITIES BY |
| NOTED BY      | CHECKED BY    |

L:\FORT WEAVER ROAD\DRAIN\PROFILE.dgn

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | CMAQ-076-1(9)         | 2006        | 124       | 371          |

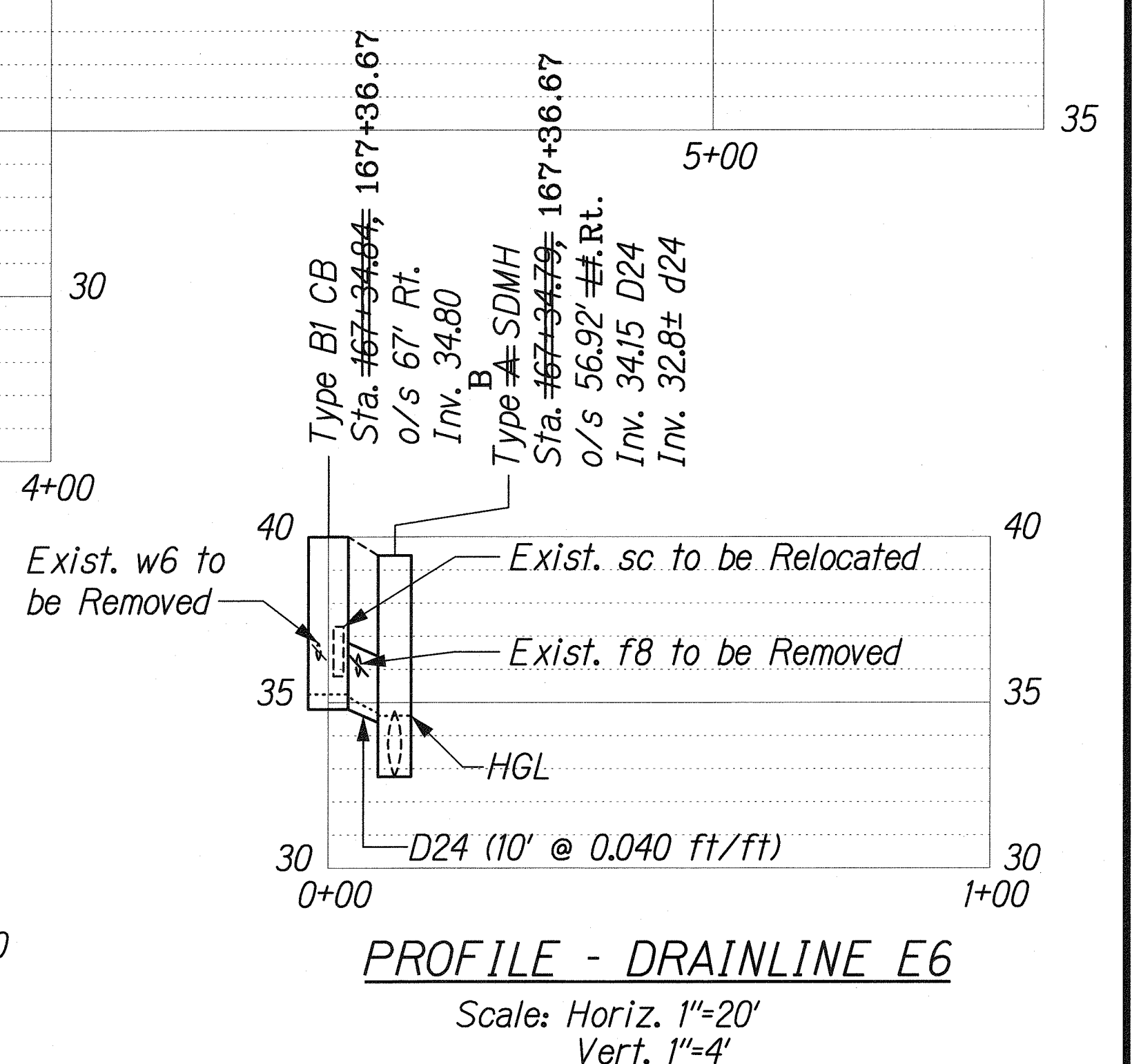
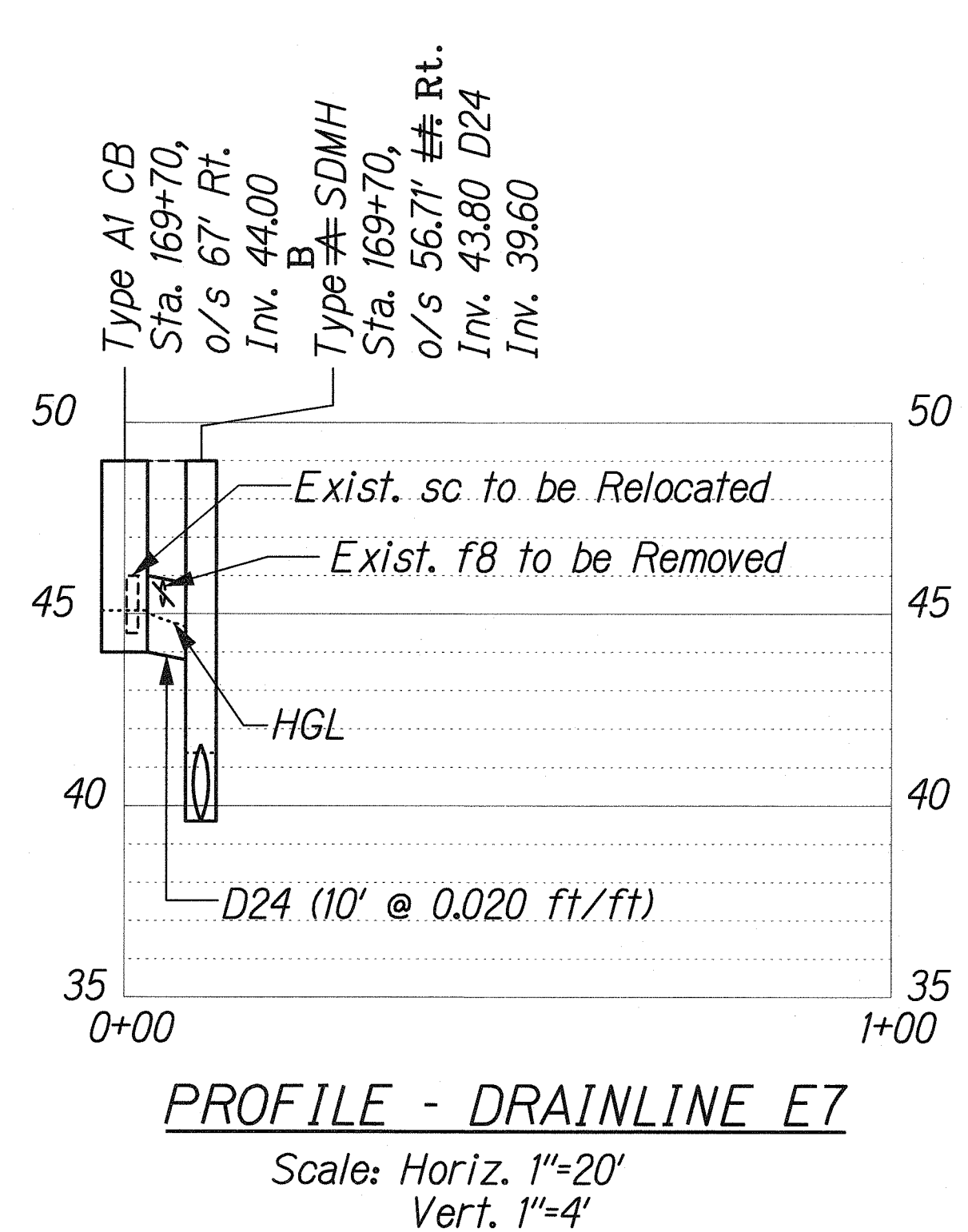
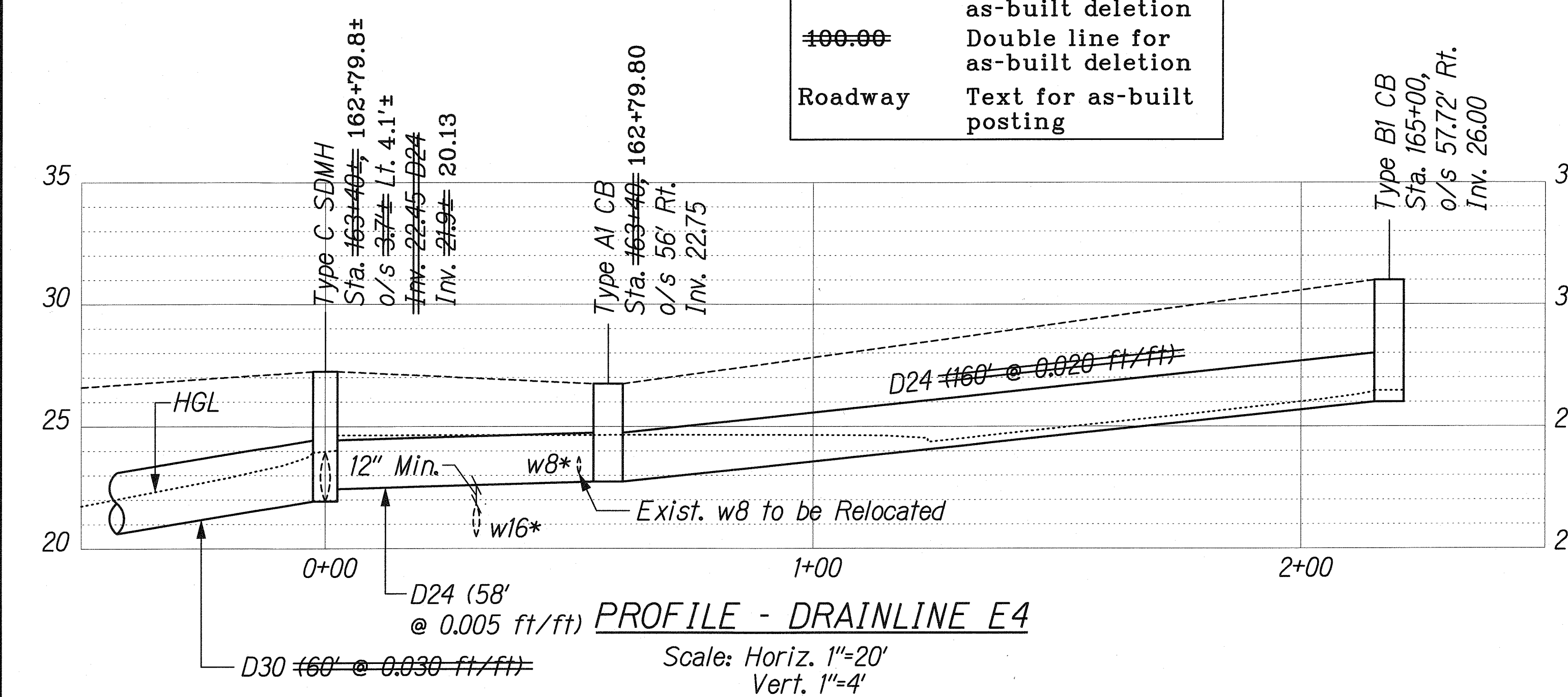


**LEGEND FOR AS-BUILT POSTINGS**

~~~~~ Squiggly line for as-built deletion

== Double line for as-built deletion

Roadway Text for as-built posting



Approved: Dennis M. Williams 4/3/08
 Chief, Wastewater Branch, DPP Date

THIS WORK WAS PREPARED BY ME
 AND UNDER MY SUPERVISION
 SIGNATURE: R. Williams 04/30/10
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

DRAINAGE PROFILES - 2

FORT WEAVER ROAD WIDENING
 VICINITY OF AAWA DRIVE TO GEIGER ROAD

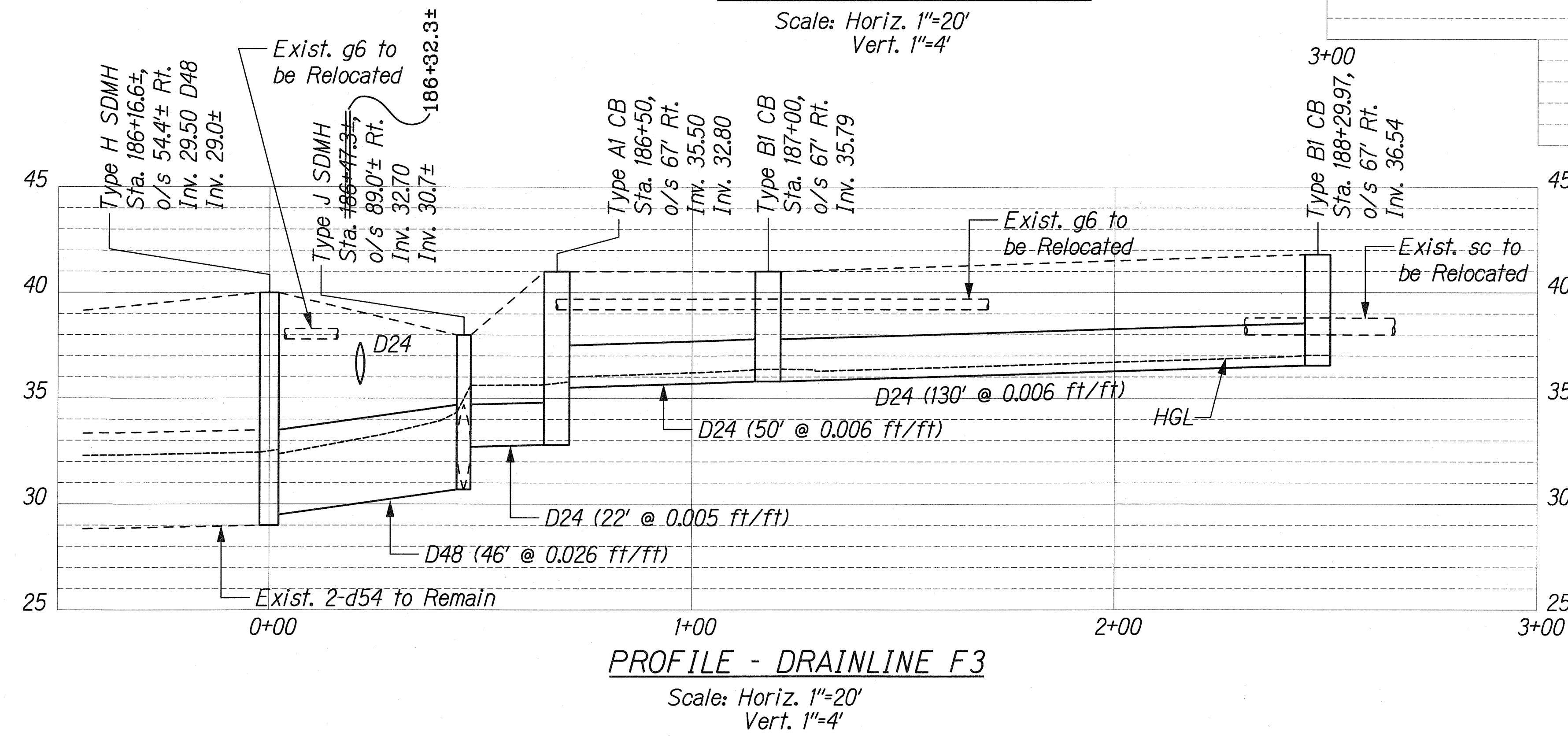
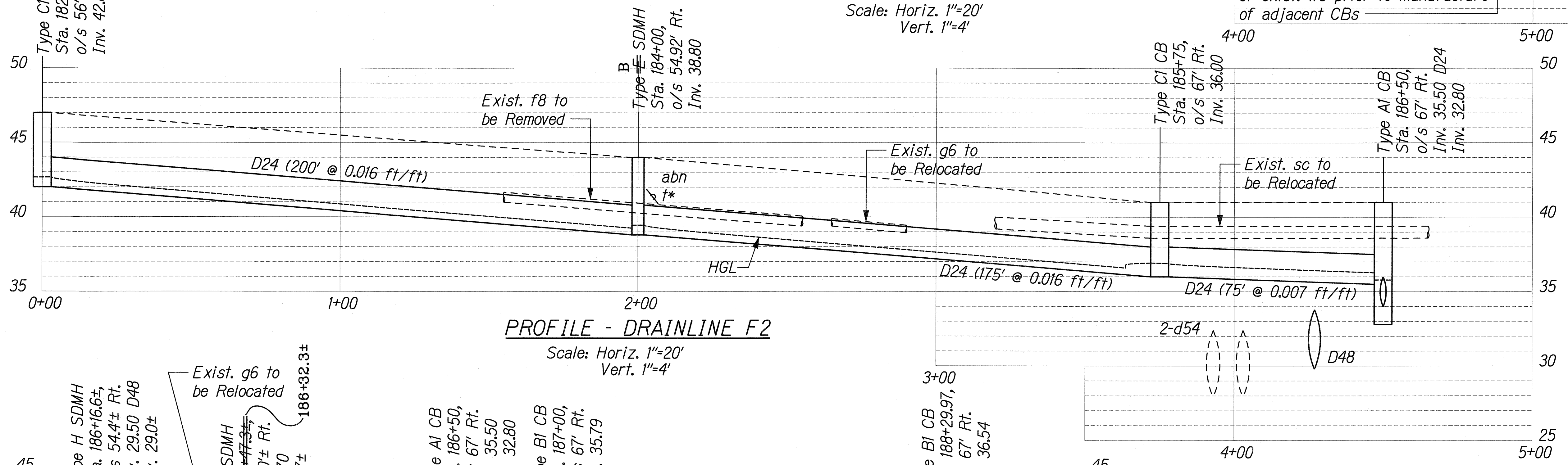
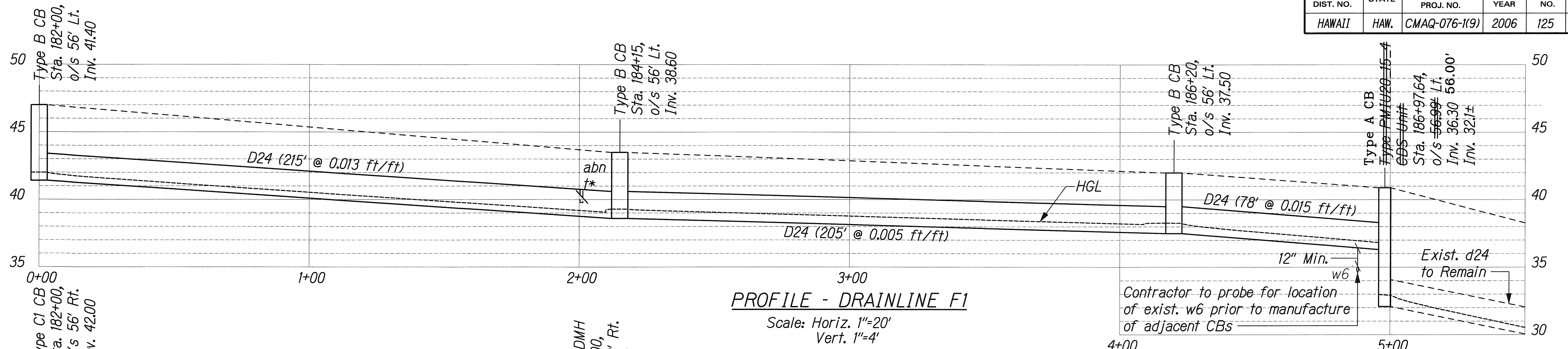
Scale: As Shown Date: Feb. 22, 2008

SHEET No. D2-14 OF 34 SHEETS

| | |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| DESIGNED BY | |
| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |
| N. | |

J:\FORT WEAVER ROAD\RAIN\PROFILE.dgn

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 125 | 371 |



| LEGEND FOR AS-BUILT POSTINGS | |
|------------------------------|-------------------------------------|
| | Squiggly line for as-built deletion |
| | Double line for as-built deletion |
| | Text for as-built posting |

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SIGNATURE: *R. Uraski* EXPIRATION DATE OF THE LICENSE: 04/30/10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES - 3

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

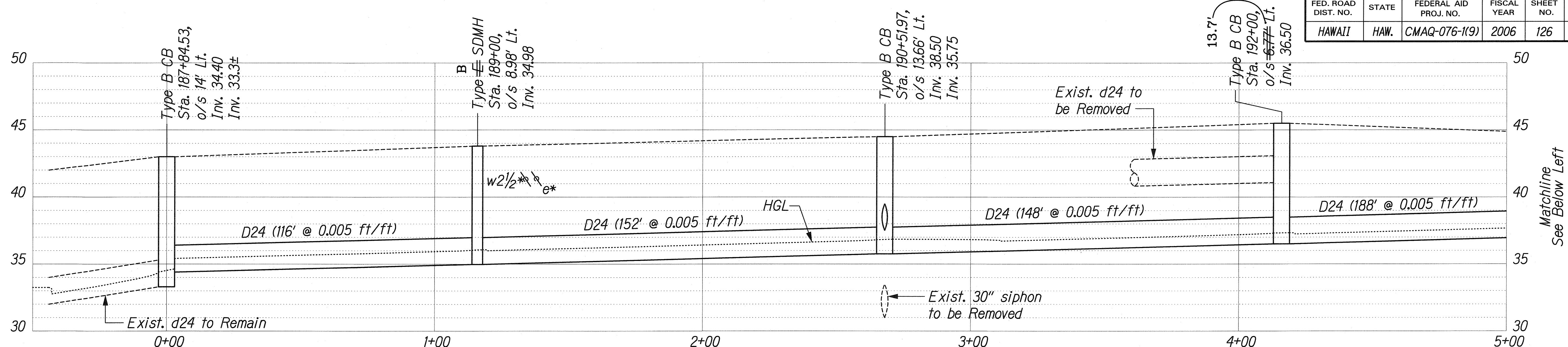
Scale: As Shown Date: Feb. 22, 2008

SHEET No. D2-15 OF 34 SHEETS

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| ORIGINAL PLAN | DATE |
| DESIGNED BY | |
| NOTED BY | |
| CHECKED BY | |

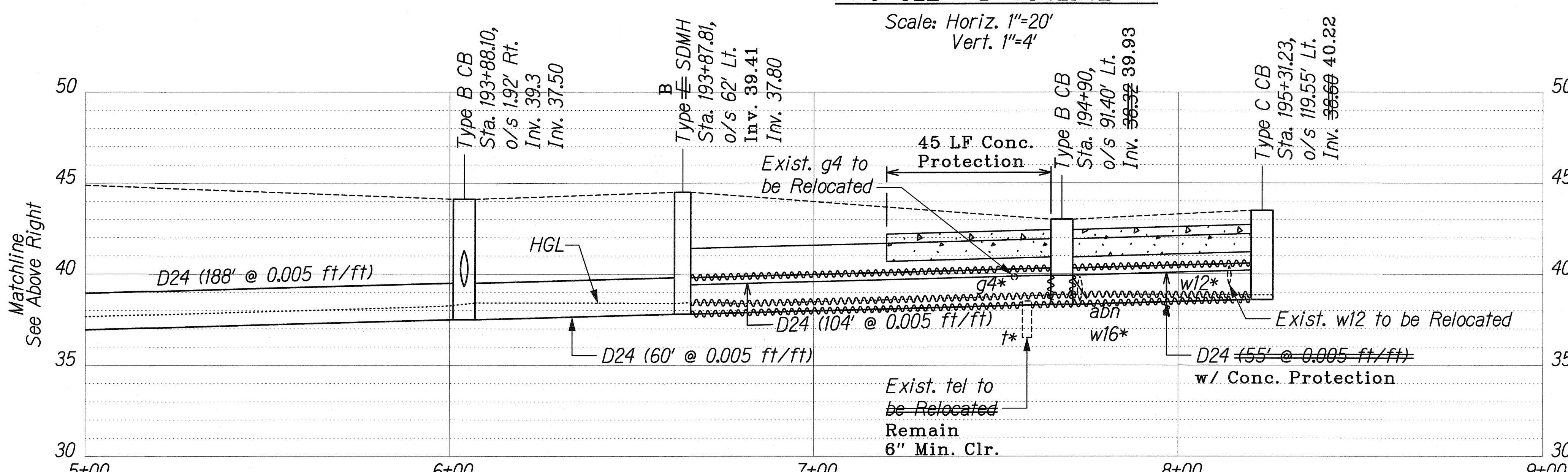
\\FORT WEAVER ROAD\DRAIN\PROFILE.dgn

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 126 | 371 |



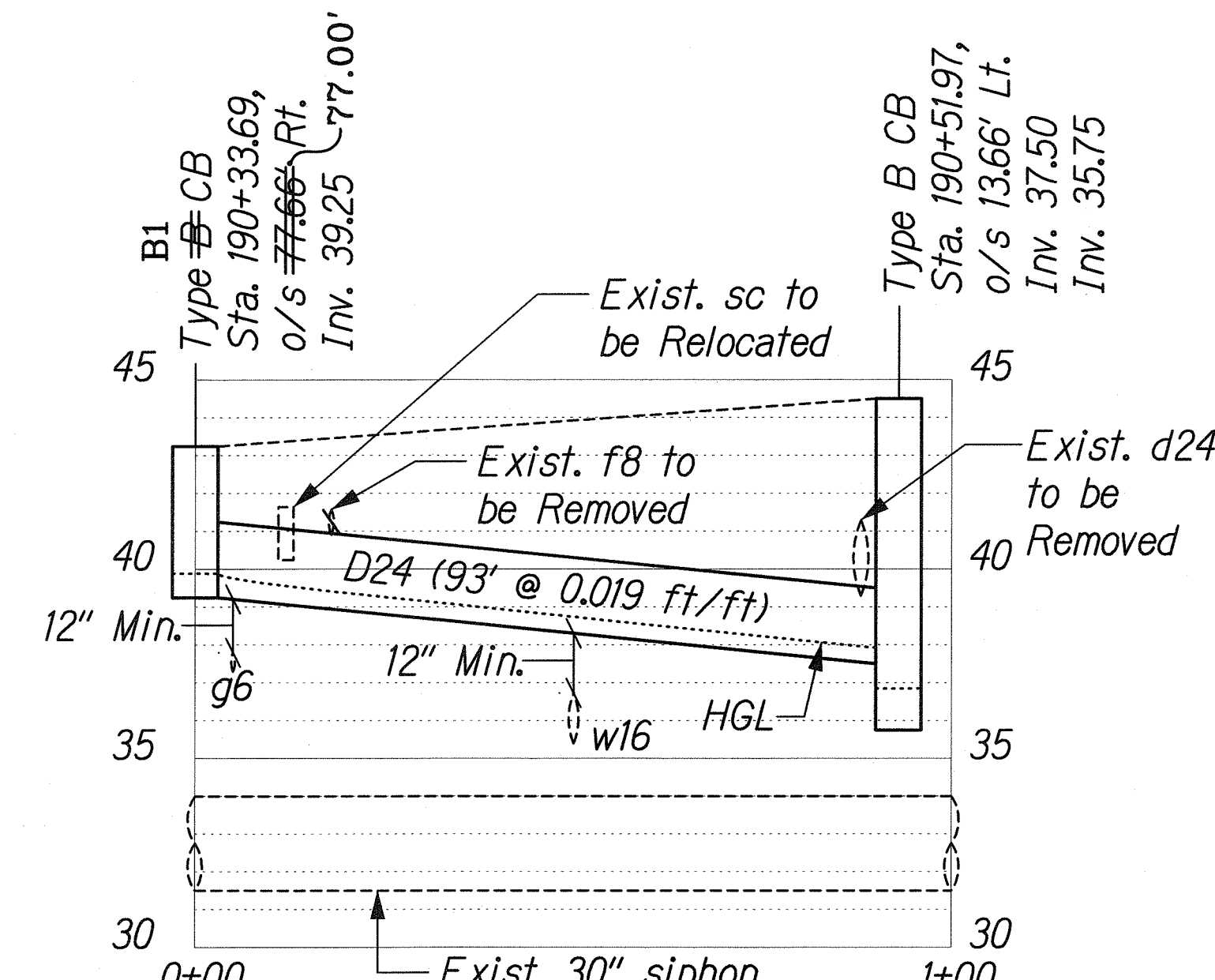
PROFILE - DRAINLINE F4

Scale: Horiz. 1"=20'
Vert. 1"=4'



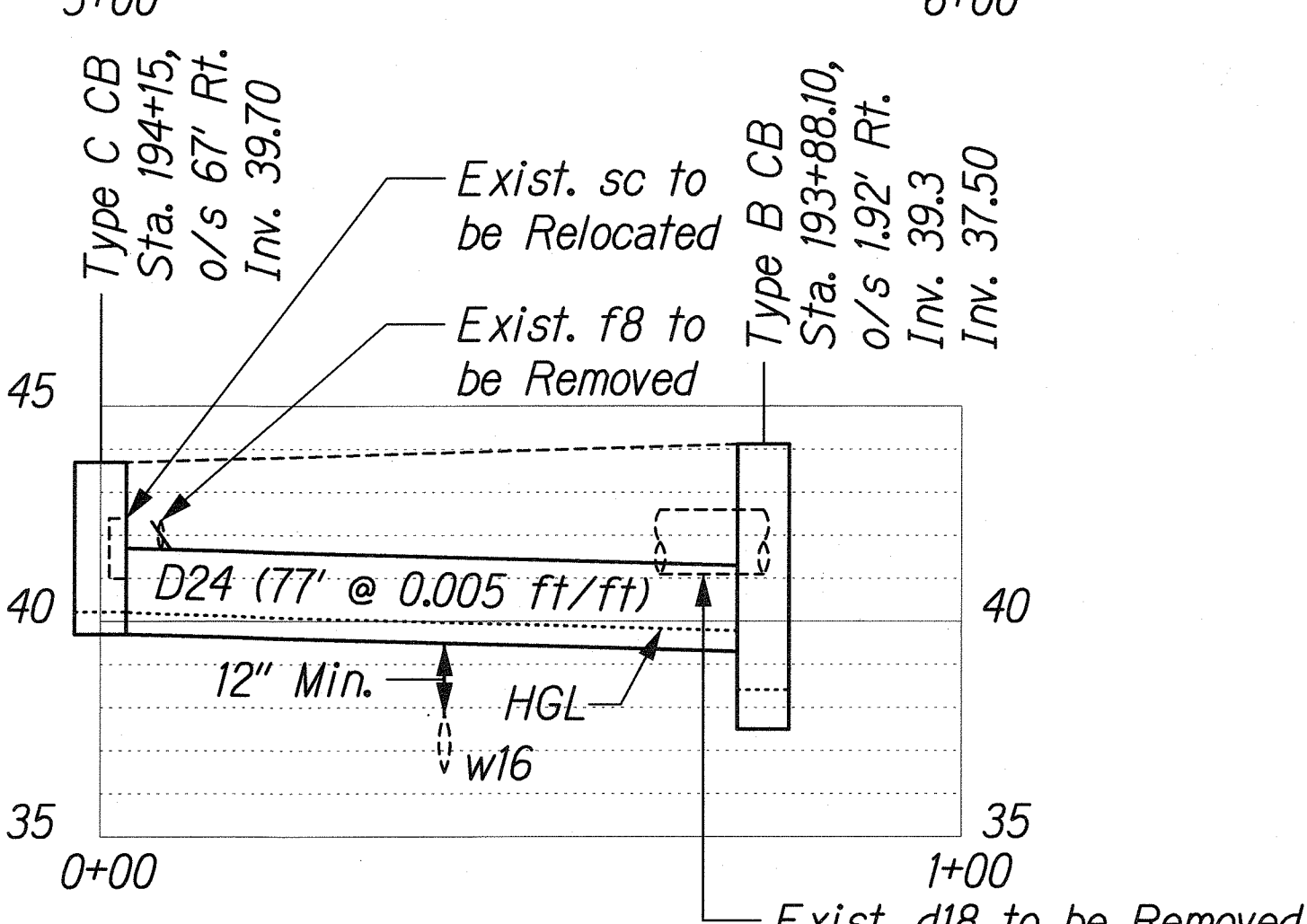
PROFILE - DRAINLINE F4

Scale: Horiz. 1"=20'
Vert. 1"=4'



PROFILE - DRAINLINE F5

Scale: Horiz. 1"=20'
Vert. 1"=4'



PROFILE - DRAINLINE F6

Scale: Horiz. 1"=20'
Vert. 1"=4'

| LEGEND FOR AS-BUILT POSTINGS | |
|------------------------------|-------------------------------------|
| | Squiggly line for as-built deletion |
| | Double line for as-built deletion |
| | Text for as-built posting |

Approved:

Robert C. ...
Chief, Capital Projects Division, BWS
Date: 2/25/08

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SIGNATURE: *R. M. Uraski* EXPIRATION DATE OF THE LICENSE: 04/30/10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES - 4

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

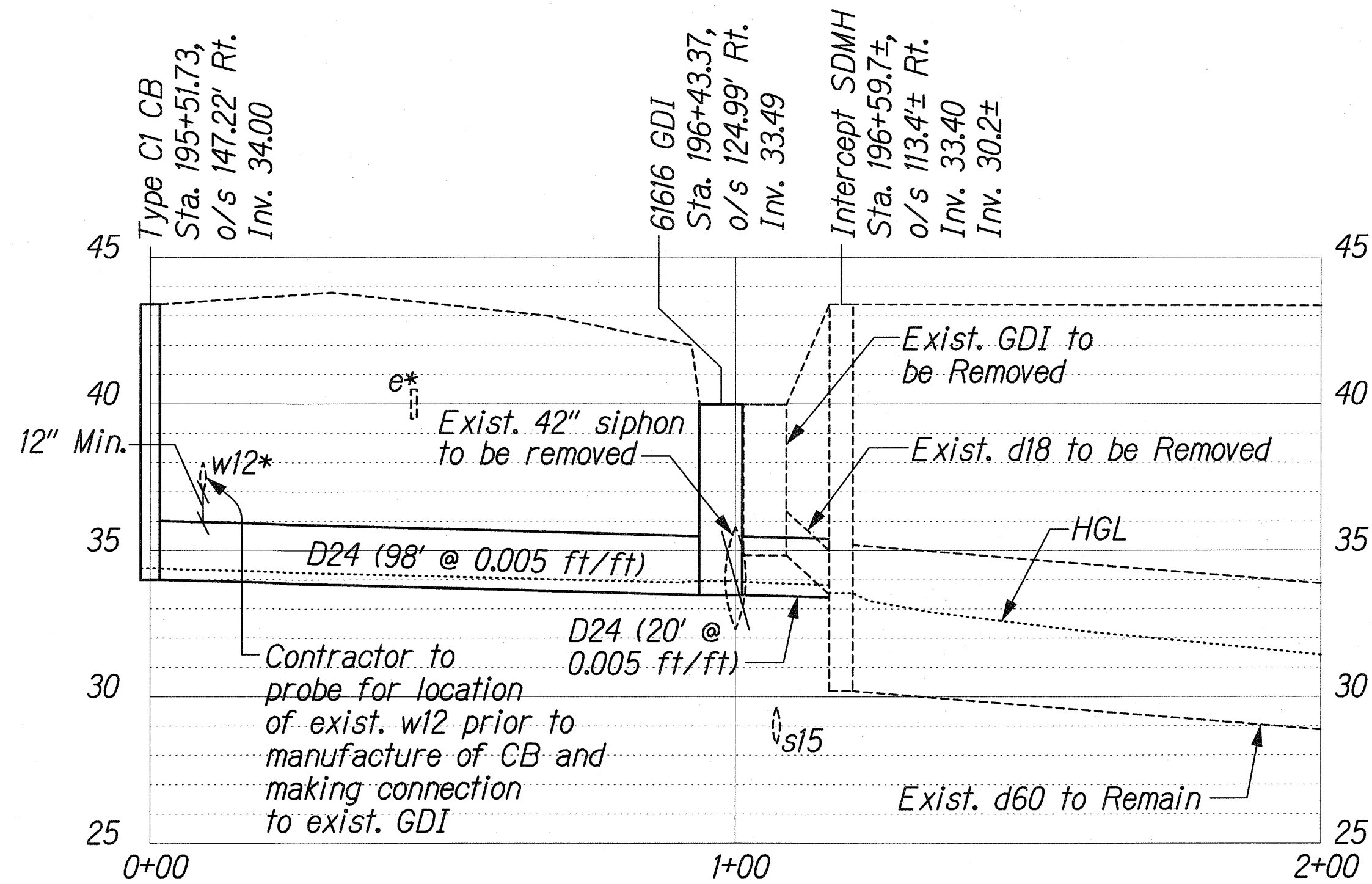
Scale: As Shown Date: Feb. 22, 2008

SHEET No. D2-16 OF 34 SHEETS

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| SURVEY PLOTTED BY | DATE |
| DESIGNED BY | |
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| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |
| QUANTITIES BY | |
| CHECKED BY | |

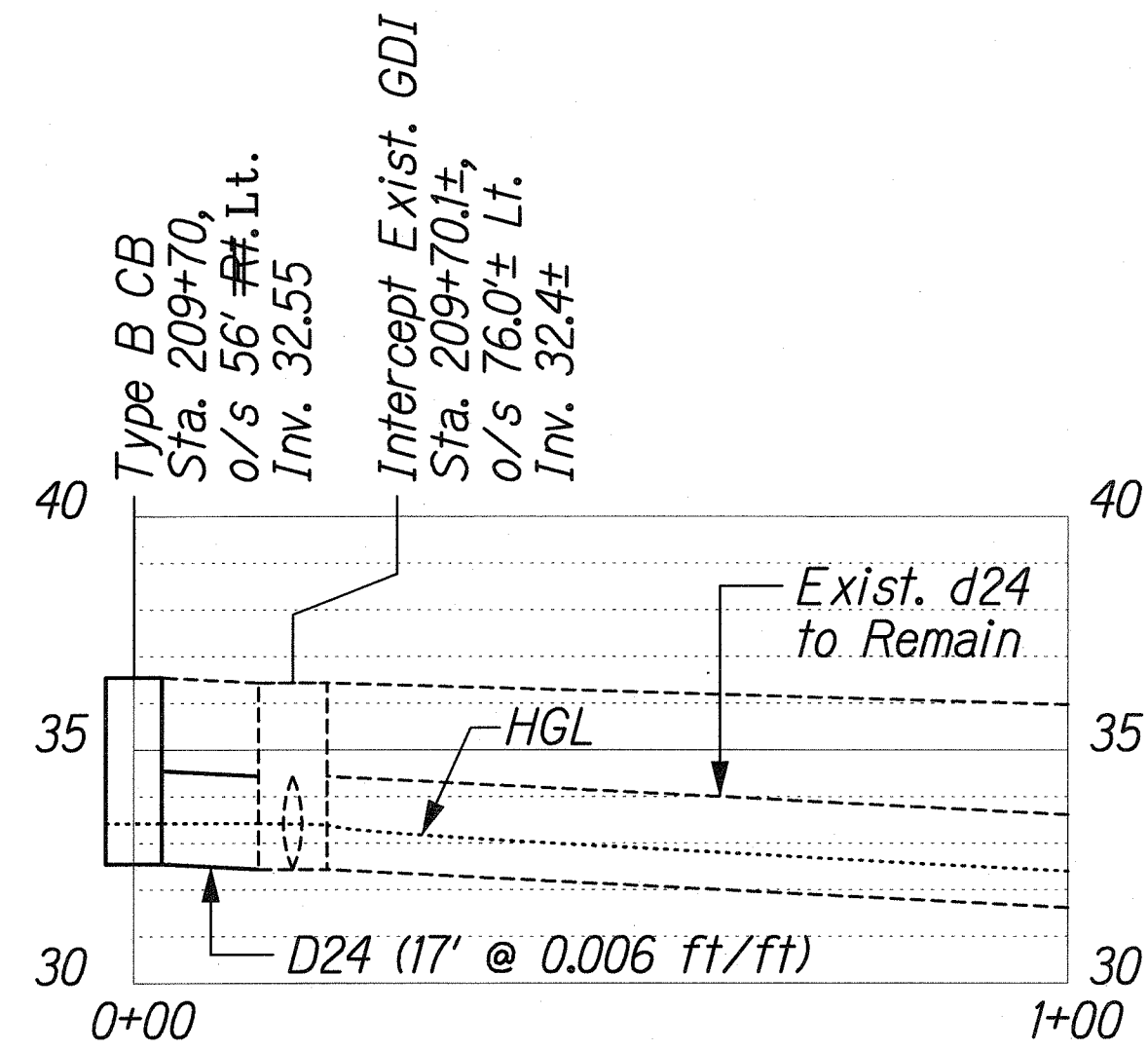
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| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 127 | 371 |



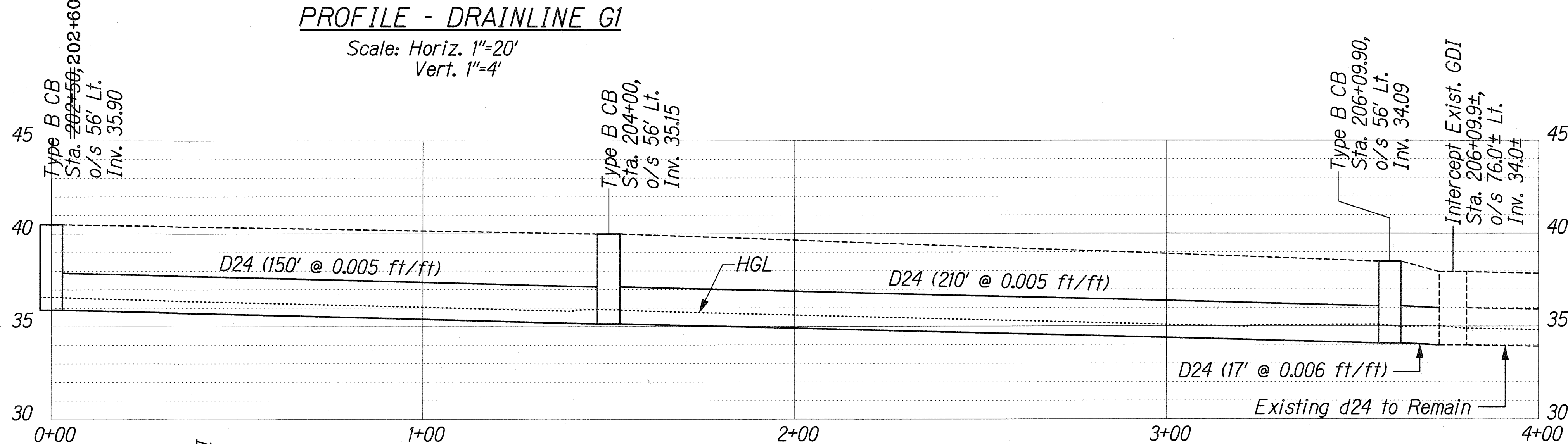
PROFILE - DRAINLINE G1

Scale: Horiz. 1"=20'
Vert. 1"=4'



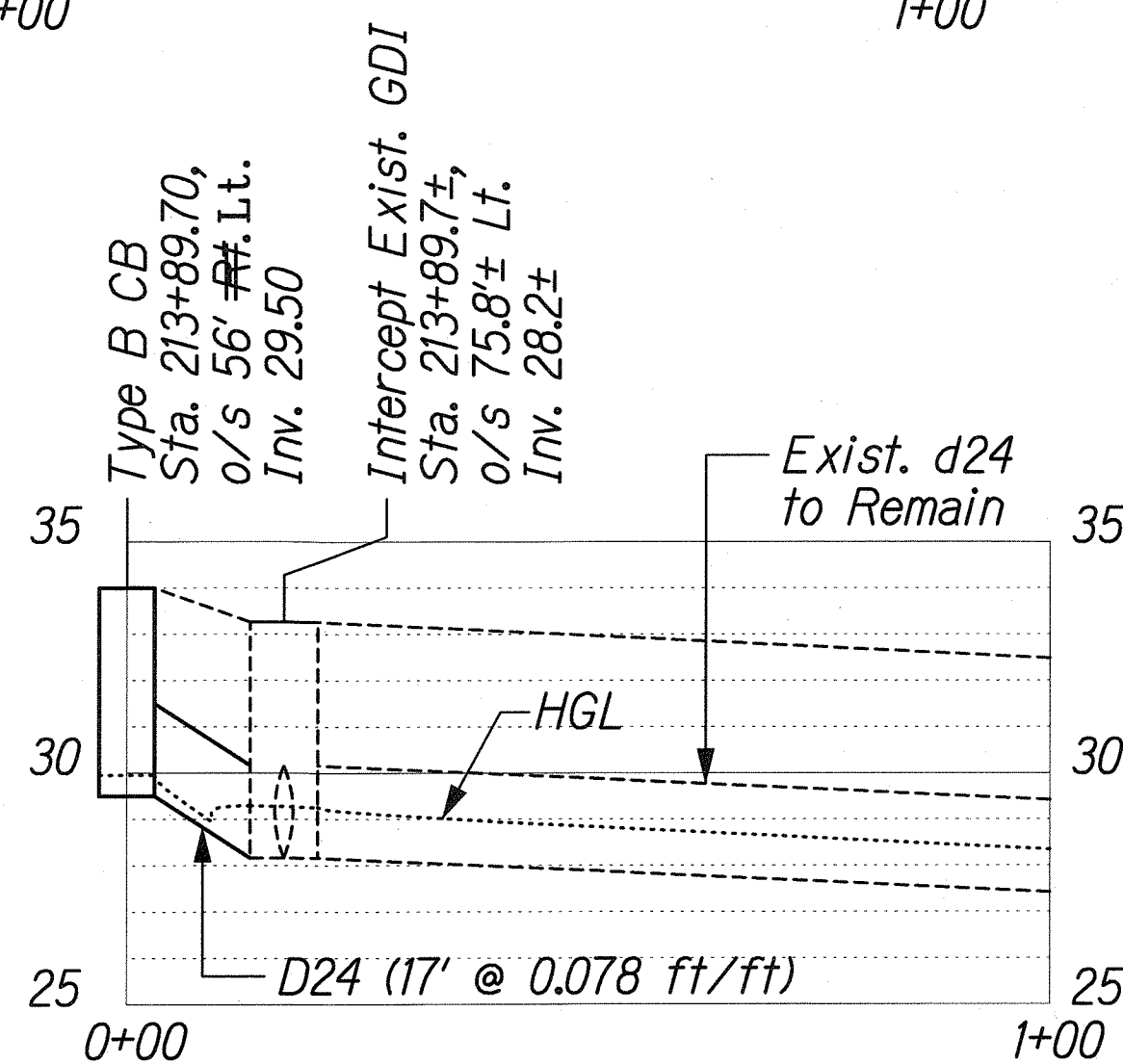
PROFILE - DRAINLINE G4

Scale: Horiz. 1"=20'
Vert. 1"=4'



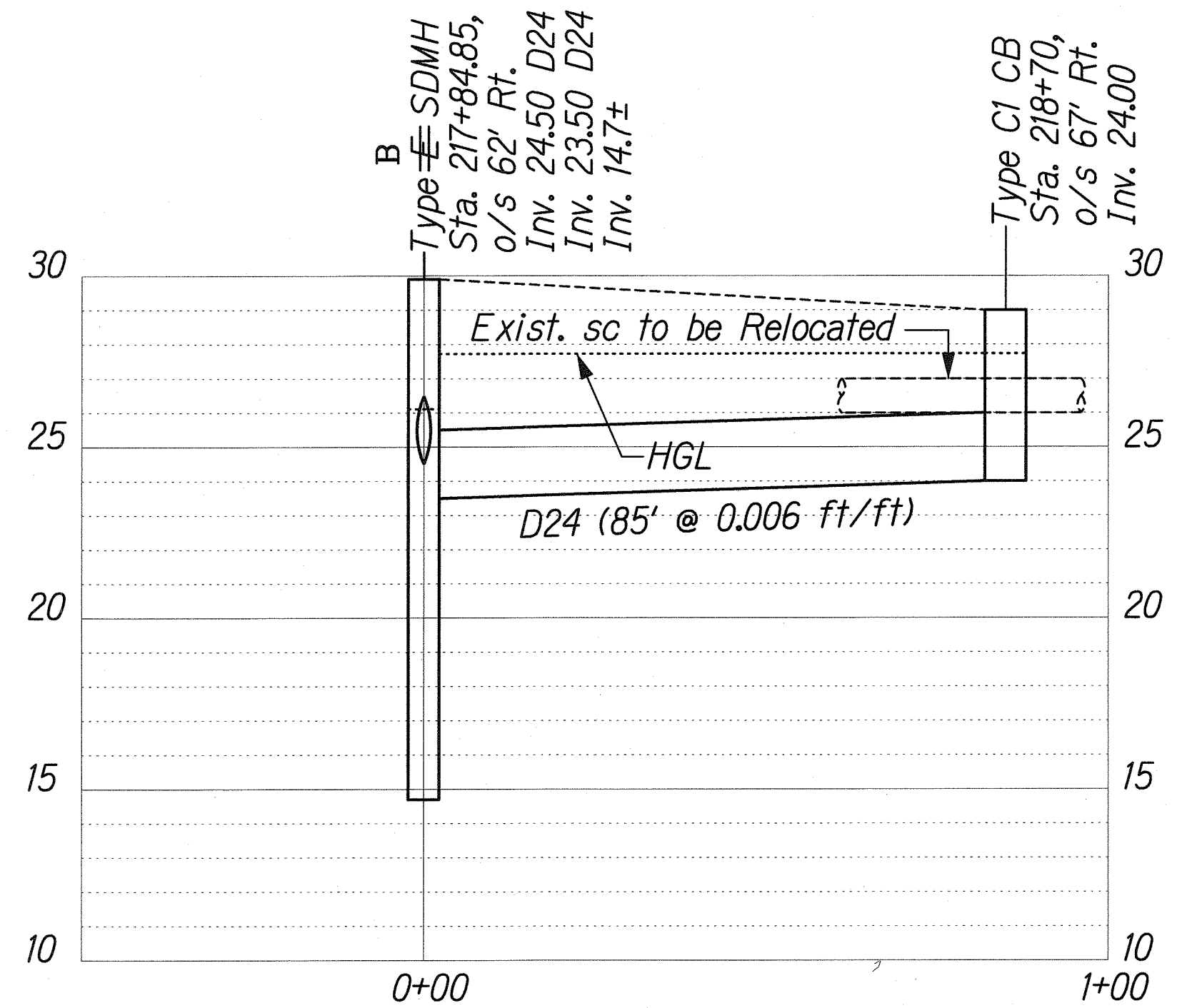
PROFILE - DRAINLINE G3

Scale: Horiz. 1"=20'
Vert. 1"=4'



PROFILE - DRAINLINE G5

Scale: Horiz. 1"=20'
Vert. 1"=4'



PROFILE - DRAINLINE G6

Scale: Horiz. 1"=20'
Vert. 1"=4'

LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion

Double line for as-built deletion

Roadway Text for as-built posting

Approved: *Dennis M. Nishimura* 4/3/08
Chief, Wastewater Branch, DPP *mw* Date

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R. Uralski

SIGNATURE EXPIRATION DATE OF THE LICENSE 04/30/10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES - 5

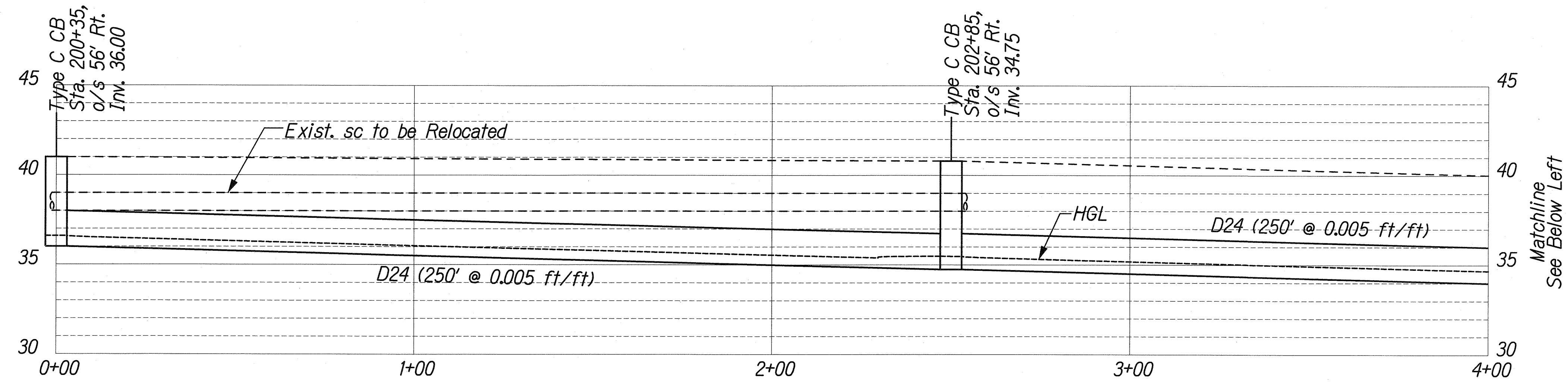
FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: As Shown Date: Feb. 22, 2008

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| SURVEY PLOTTED BY | DATE |
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| CHECKED BY | |
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| NOTE BOOK | |
| NO. | |

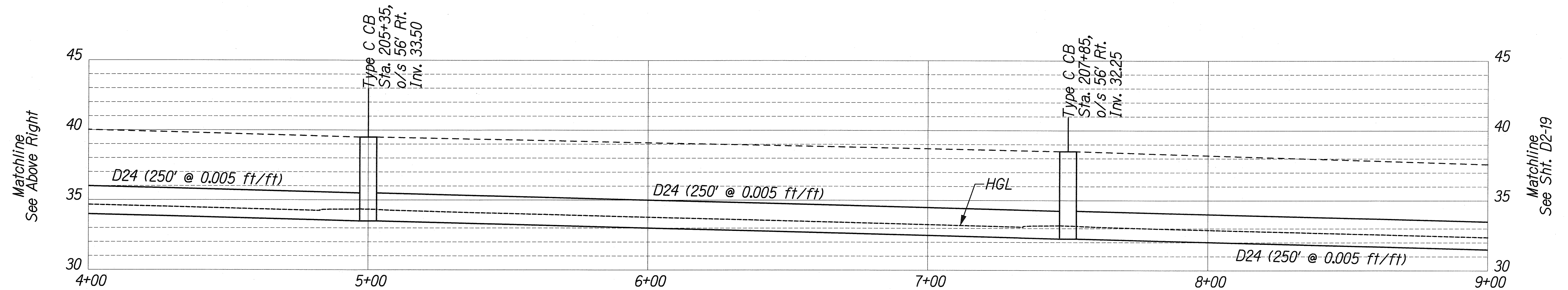
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| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 128 | 371 |



PROFILE - DRAINLINE G2

Scale: Horiz. 1"=20'
Vert. 1"=4'



PROFILE - DRAINLINE G2

Scale: Horiz. 1"=20'
Vert. 1"=4'

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| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DRAWN BY | |
| | DESIGNED BY | |
| | QUANTITIES BY | |
| | CHECKED BY | |

J:\FORT WEAVER ROAD\RAIN\PROFILE.dgn

THIS WORK WAS PREPARED BY ME
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[Signature]
SIGNATURE 04/30/10
EXPIRATION DATE OF THE LICENSE

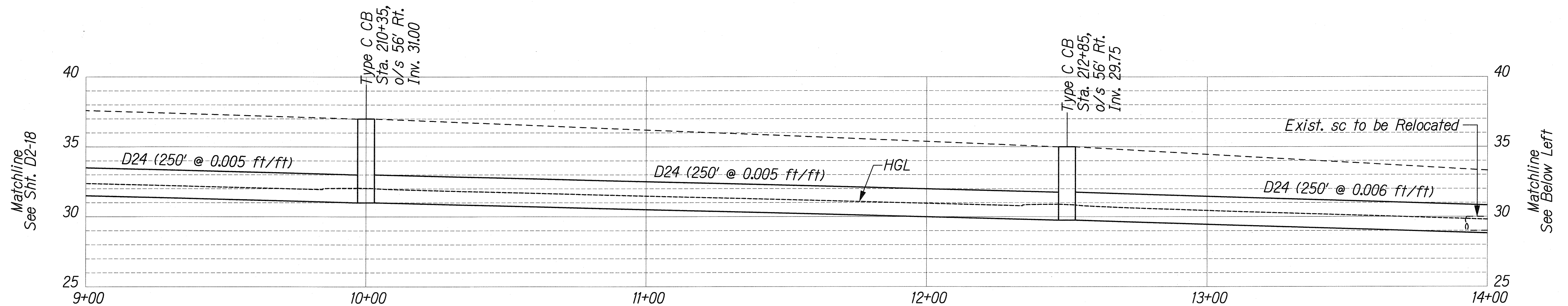
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES - 6

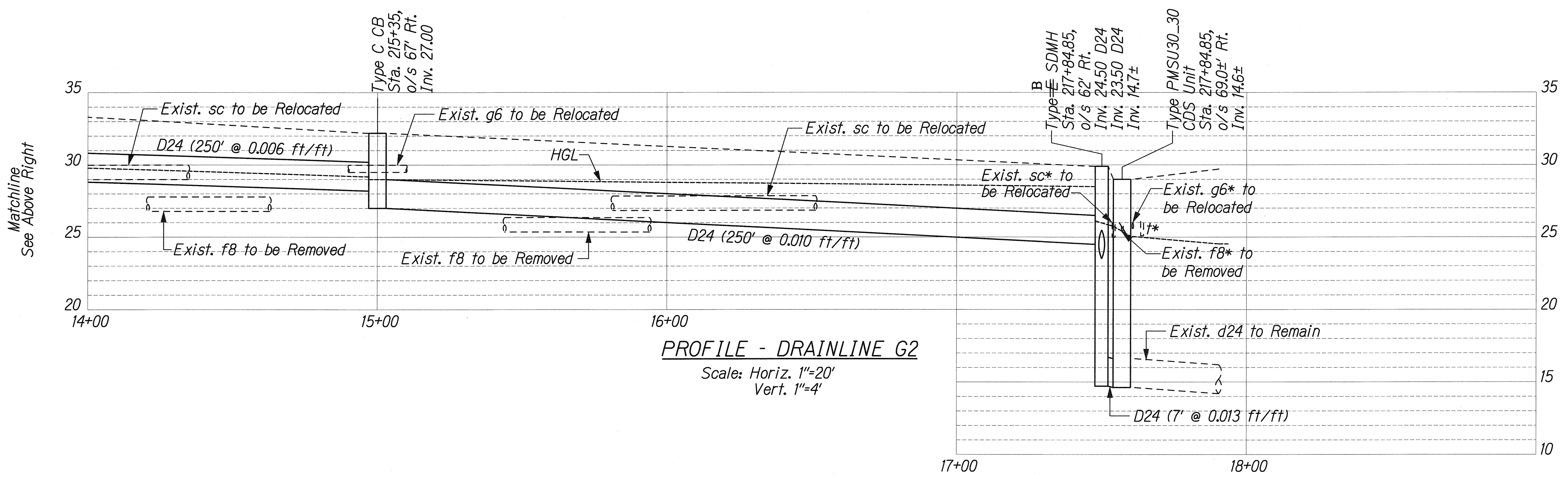
FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: As Shown Date: Feb. 22, 2008

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 129 | 371 |



PROFILE - DRAINLINE G2
Scale: Horiz. 1"=20'
Vert. 1"=4'



PROFILE - DRAINLINE G2
Scale: Horiz. 1"=20'
Vert. 1"=4'

LEGEND FOR AS-BUILT POSTINGS

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| | Squiggly line for as-built deletion |
| | Double line for as-built deletion |
| | Text for as-built posting |

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES - 7

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

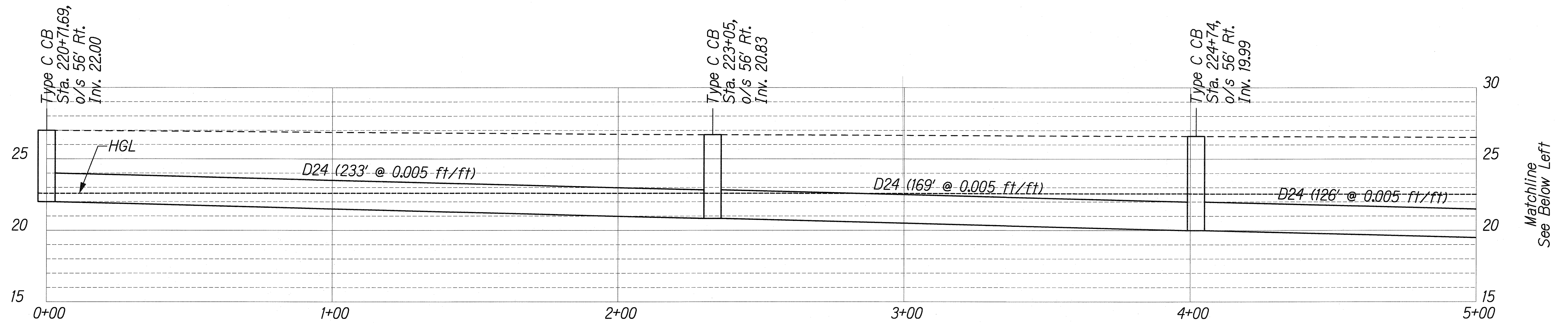
Scale: As Shown Date: Feb. 22, 2008

SHEET No. D2-19 OF 34 SHEETS

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

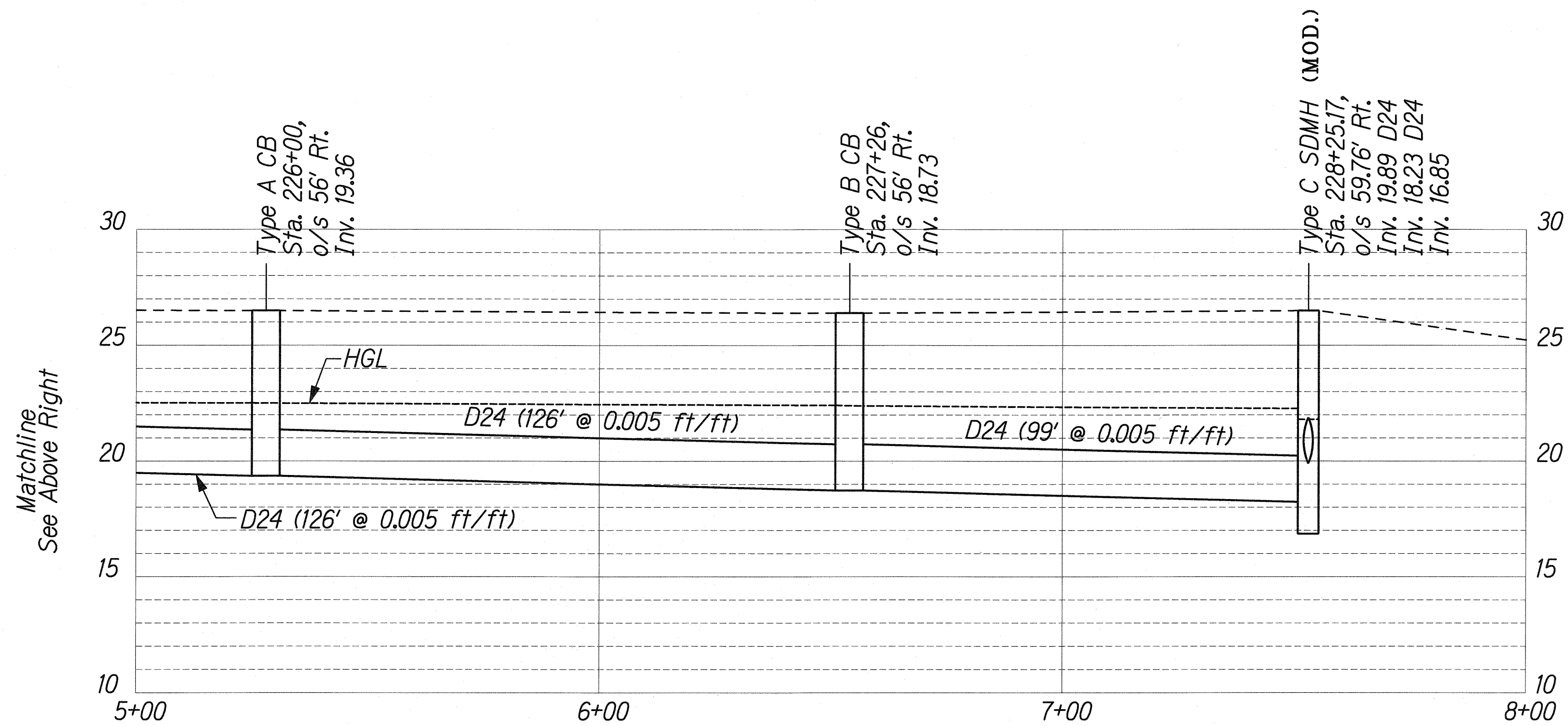
\\FORT WEAVER ROAD\DRAIN\PROFILE.dgn

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 130 | 371 |



PROFILE - DRAINLINE H1

Scale: Horiz. 1"=20'
Vert. 1"=4'



PROFILE - DRAINLINE H1

Scale: Horiz. 1"=20'
Vert. 1"=4'

| LEGEND FOR AS-BUILT POSTINGS | |
|------------------------------|-------------------------------------|
| | Squiggly line for as-built deletion |
| | Double line for as-built deletion |
| Roadway | Text for as-built posting |

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STATE OF HAWAII
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HIGHWAYS DIVISION

DRAINAGE PROFILES - 8

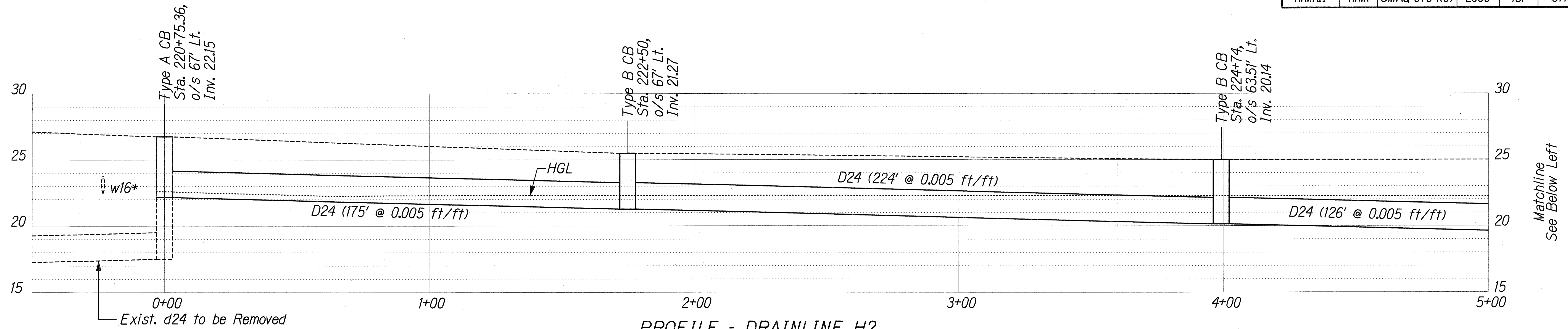
FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: As Shown Date: Feb. 22, 2008

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| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DESIGNED BY | |
| | QUANTITIES BY | |
| | CHECKED BY | |

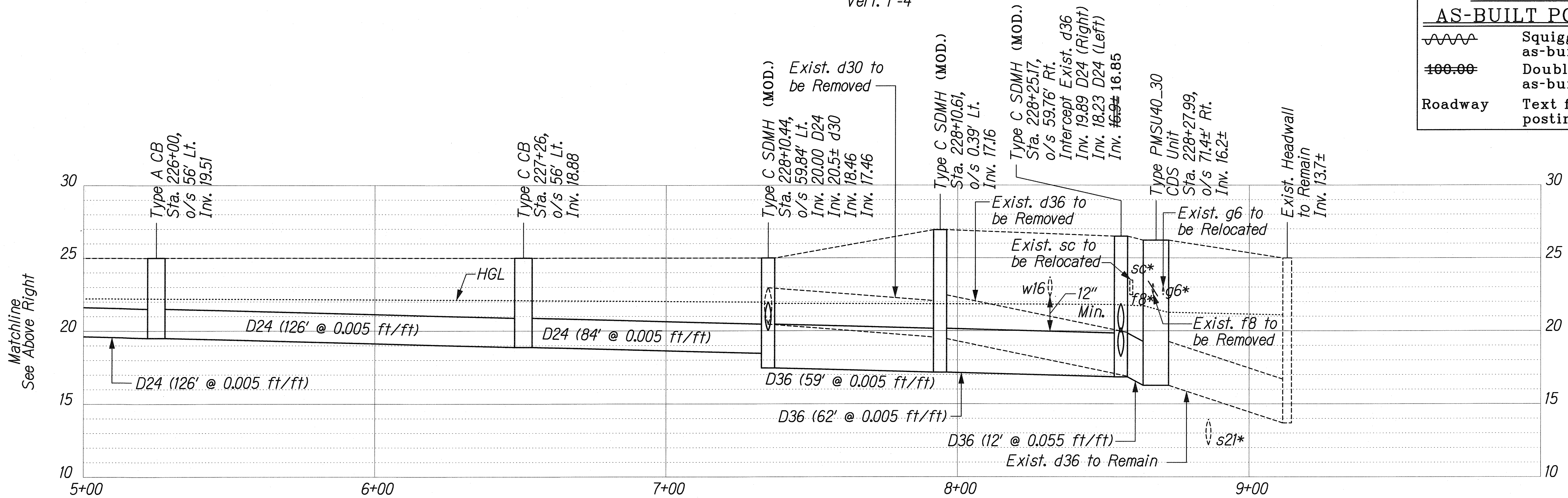
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| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 131 | 371 |



PROFILE - DRAINLINE H2
 Scale: Horiz. 1"=20'
 Vert. 1"=4'

| LEGEND FOR AS-BUILT POSTINGS | |
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| | Squiggly line for as-built deletion |
| | Double line for as-built deletion |
| | Text for as-built posting |



PROFILE - DRAINLINE H2
 Scale: Horiz. 1"=20'
 Vert. 1"=4'

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

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Approved: *Dominic L. Loo* 3/28/08
 Chief, Capital Projects Division, BWS Date

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 SIGNATURE: *R. Uralski* EXPIRATION DATE OF THE LICENSE: 04/30/10

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

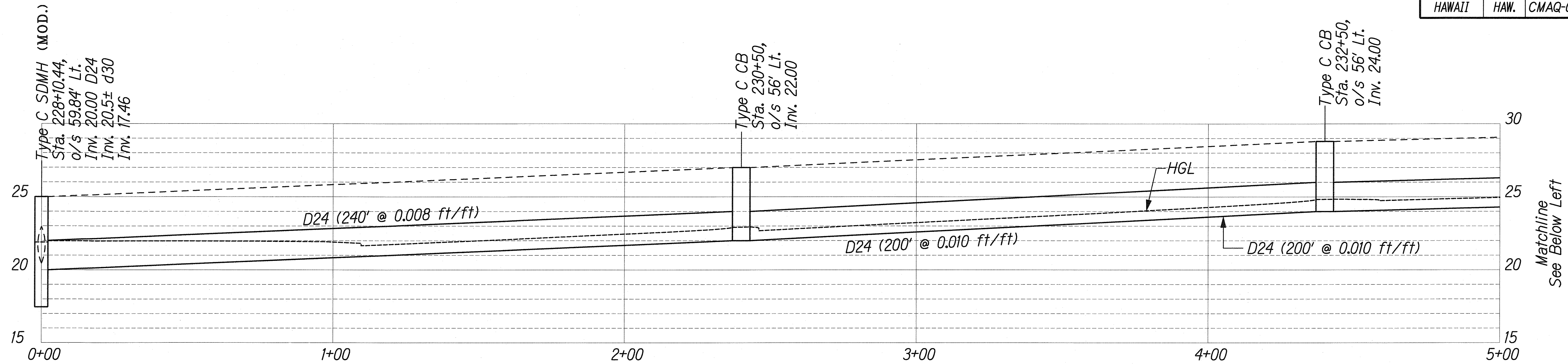
DRAINAGE PROFILES - 9

FORT WEAVER ROAD WIDENING
 VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: As Shown Date: Feb. 22, 2008

SHEET No. D2-21 OF 34 SHEETS

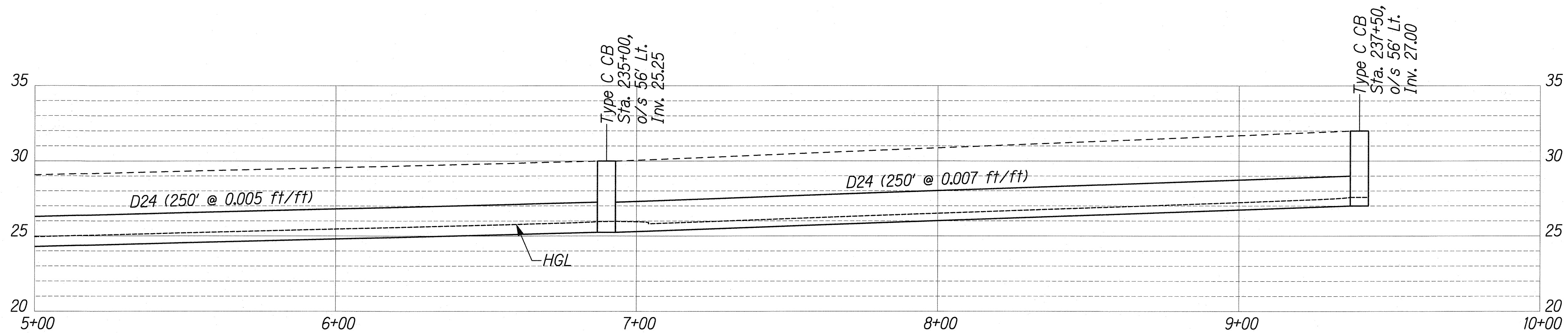
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 132 | 371 |



PROFILE - DRAINLINE H3

Scale: Horiz. 1"=20'
Vert. 1"=4'

Matchline
See Above Right



PROFILE - DRAINLINE H3

Scale: Horiz. 1"=20'
Vert. 1"=4'

| LEGEND FOR
AS-BUILT POSTINGS | |
|---------------------------------|-------------------------------------|
| | Squiggly line for as-built deletion |
| | Double line for as-built deletion |
| Roadway | Text for as-built posting |

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES - 10

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

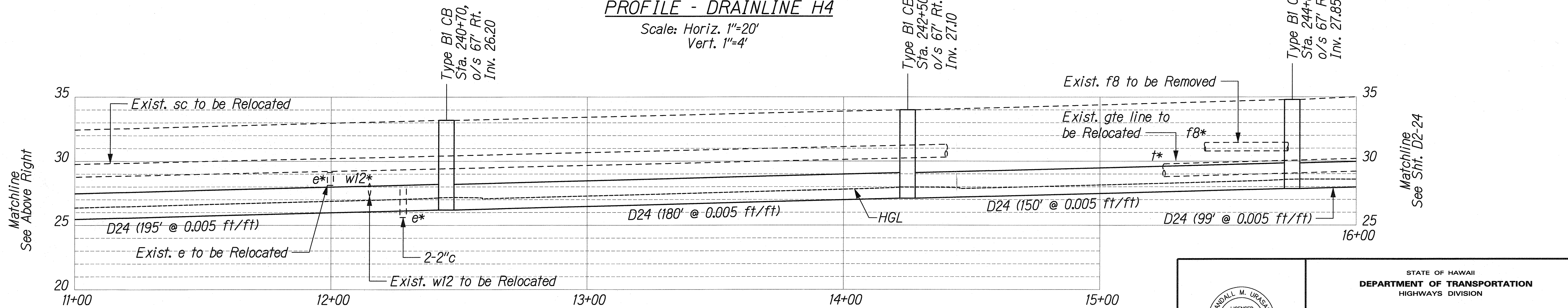
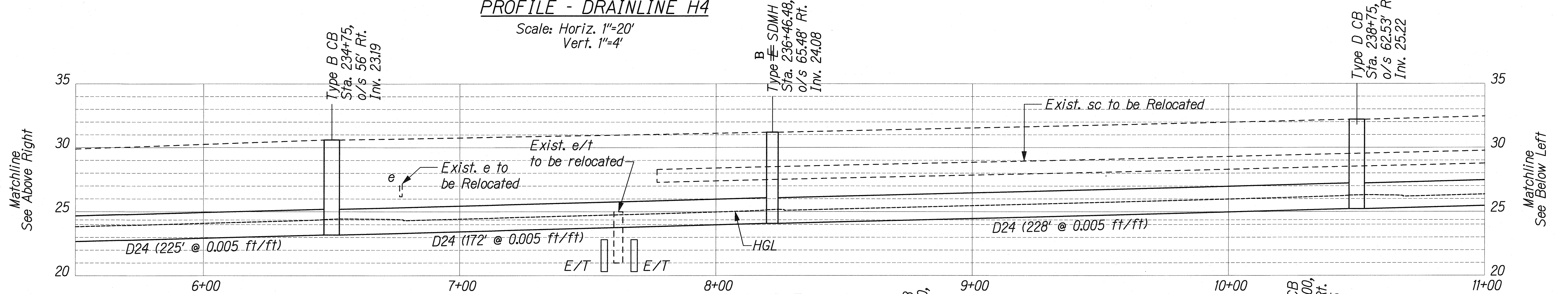
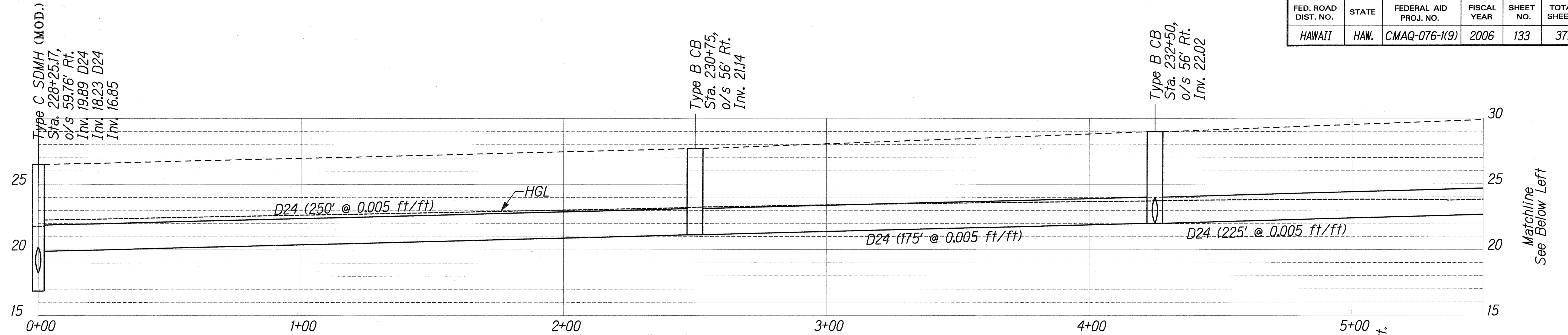
Scale: As Shown Date: Feb. 22, 2008

SHEET No. D2-22 OF 34 SHEETS

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| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DESIGNED BY | |
| QUANTITIES BY | CHECKED BY | |
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| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 133 | 371 |

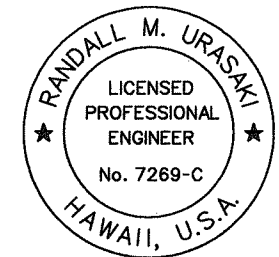


LEGEND FOR AS-BUILT POSTINGS

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| | Squiggly line for as-built deletion | Roadway | Text for as-built posting |
| | Double line for as-built deletion | | |

PROFILE - DRAINLINE H4

Scale: Horiz. 1"=20'
Vert. 1"=4'



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES - 11

FORT WEAVER ROAD WIDENING
VICINITY OF AWA DRIVE TO GEIGER ROAD

Scale: As Shown Date: Feb. 22, 2008

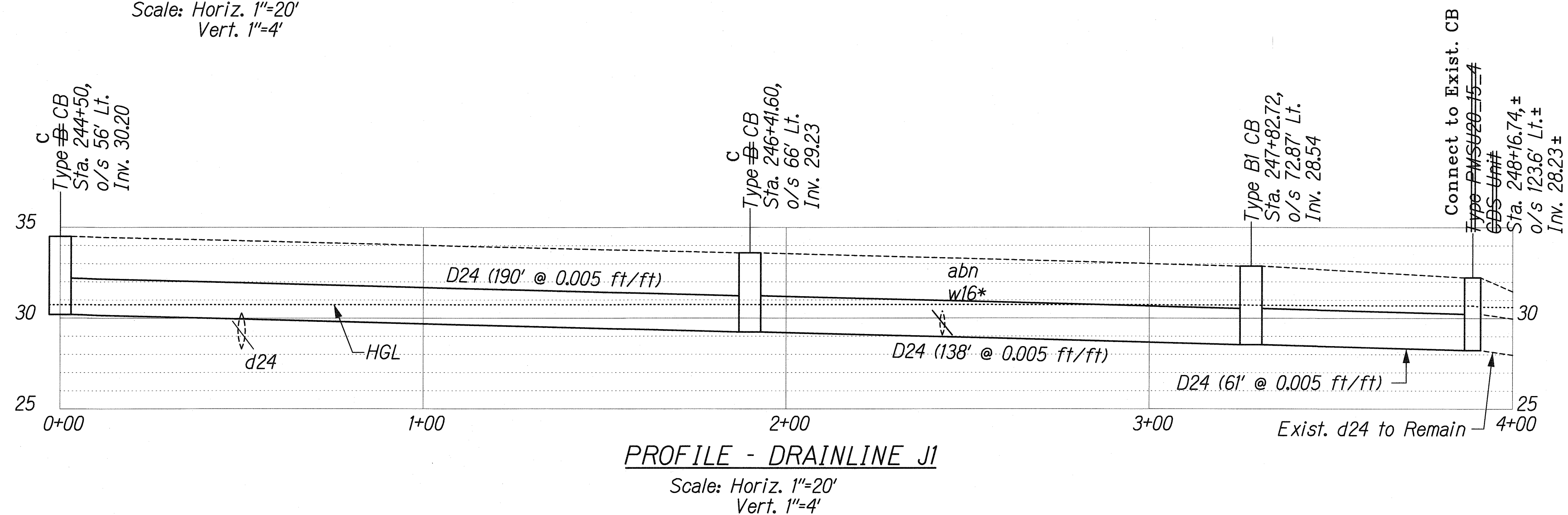
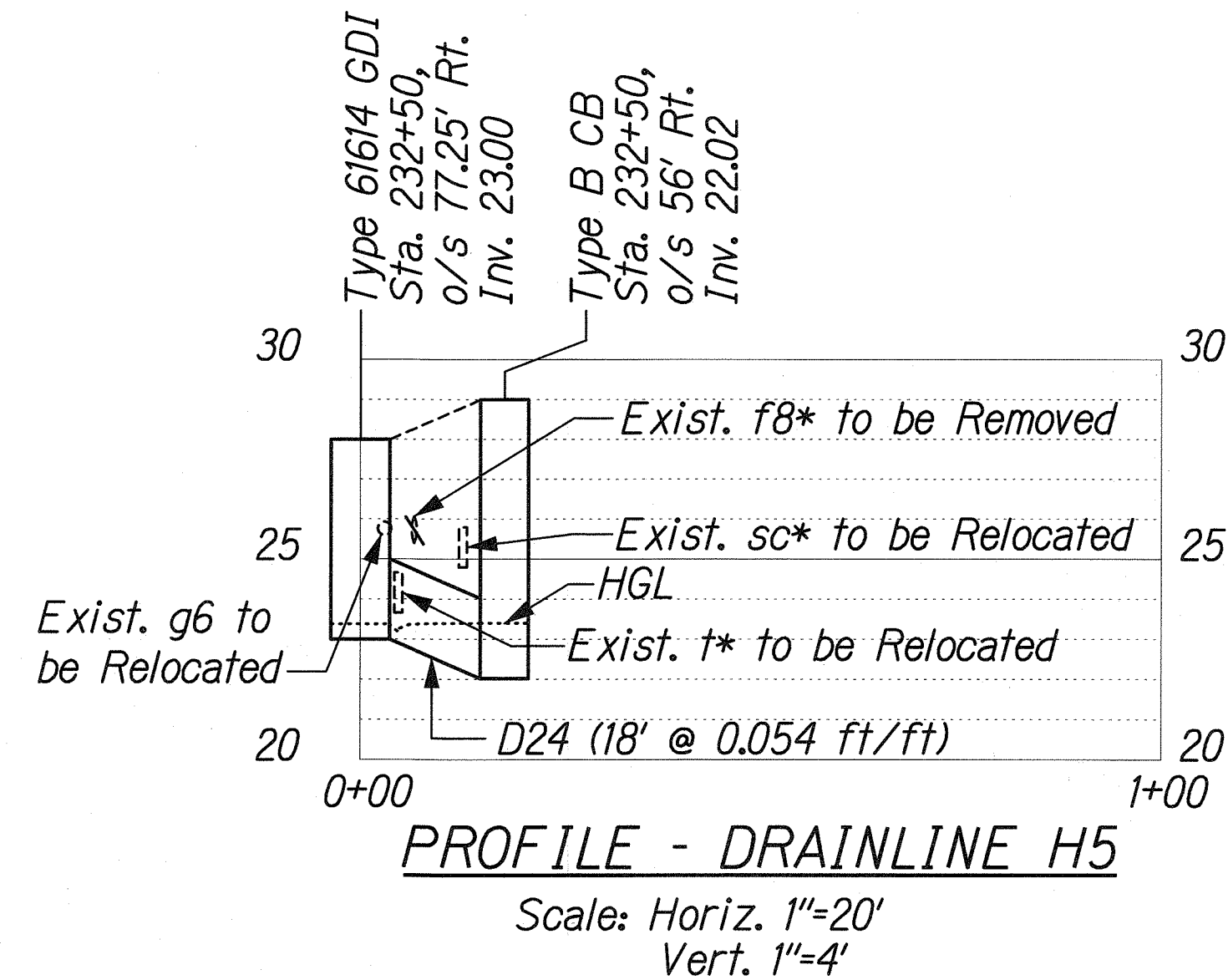
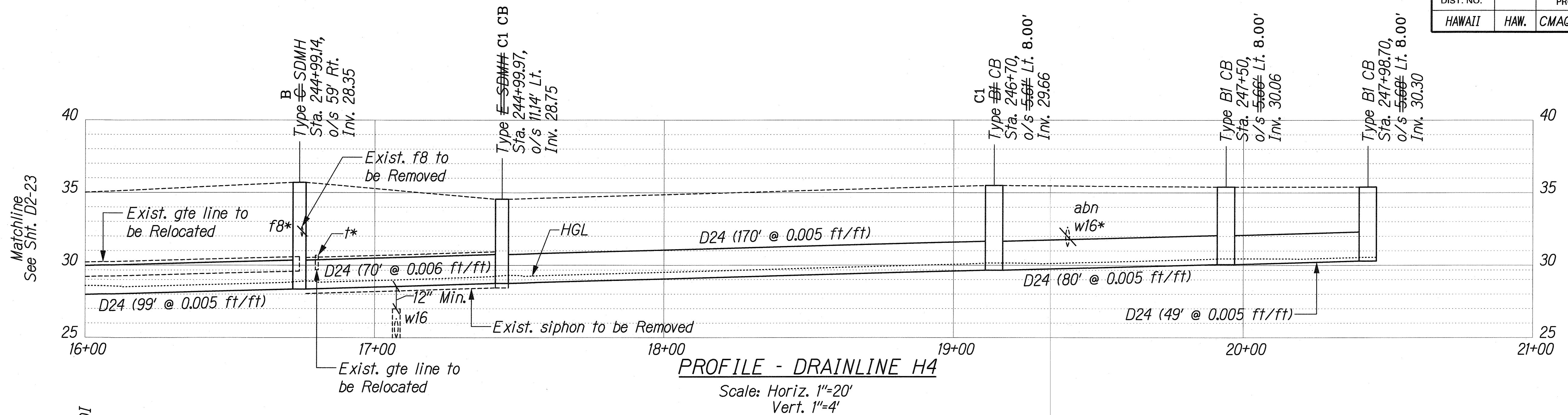
SHEET No. D2-23 OF 34 SHEETS

AS-BUILT 133

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| SURVEY PLOTTED BY | DATE |
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| DESIGNED BY | |
| NOTED BY | |
| CHECKED BY | |

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| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 134 | 371 |



| LEGEND FOR AS-BUILT POSTINGS | |
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| | Squiggly line for as-built deletion |
| | Double line for as-built deletion |
| Roadway | Text for as-built posting |

Approved:
Chief, Capital Projects Division, BWS_{DO} Date: 2/25/08

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES - 12

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

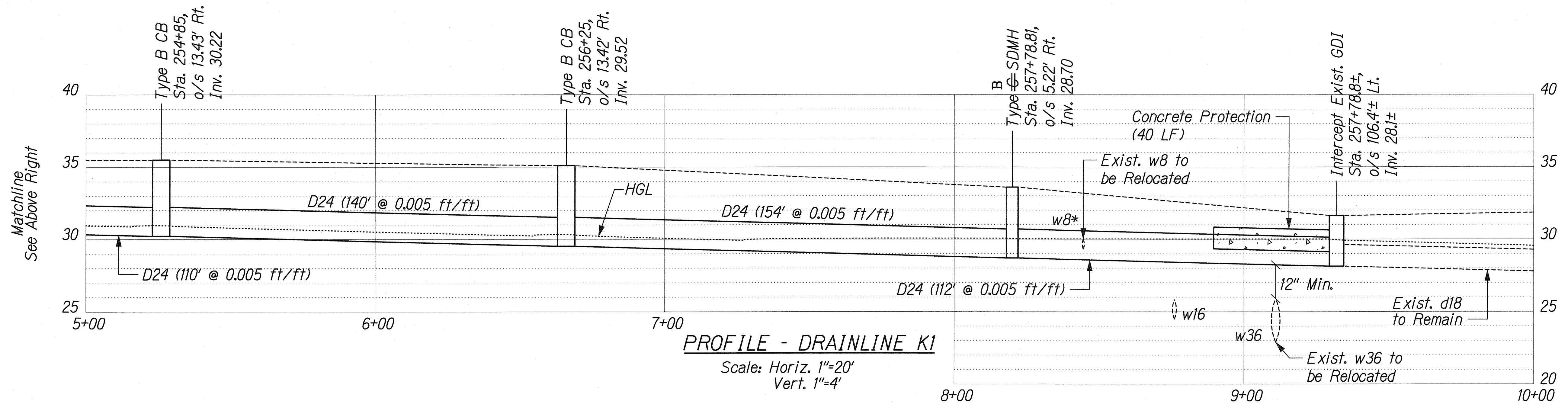
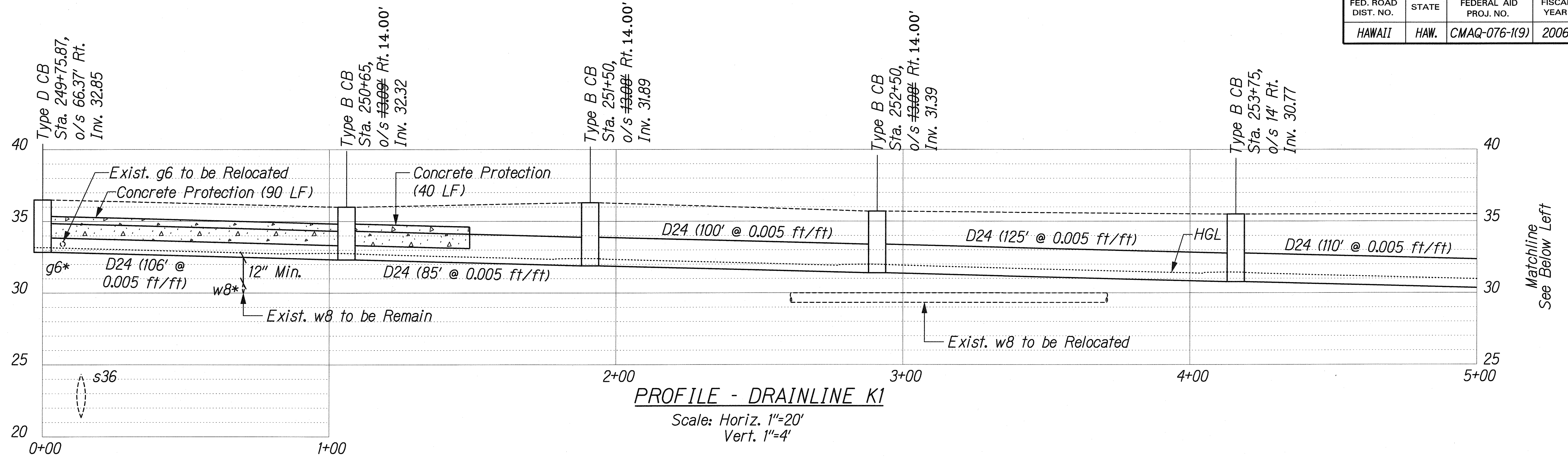
Scale: As Shown Date: Feb. 22, 2008

SHEET No. D2-24 OF 34 SHEETS

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| SURVEY PLOTTED BY | DATE |
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| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 135 | 371 |



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| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| DESIGNED BY | |
| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |
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Approved:

Dennis M. Nishimura 3/3/08
Chief, Wastewater Branch, DPP w Date

| LEGEND FOR AS-BUILT POSTINGS | |
|------------------------------|-------------------------------------|
| | Squiggly line for as-built deletion |
| | Double line for as-built deletion |
| | Text for as-built posting |

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SIGNATURE: R. Urish EXPIRATION DATE OF THE LICENSE: 04/30/10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

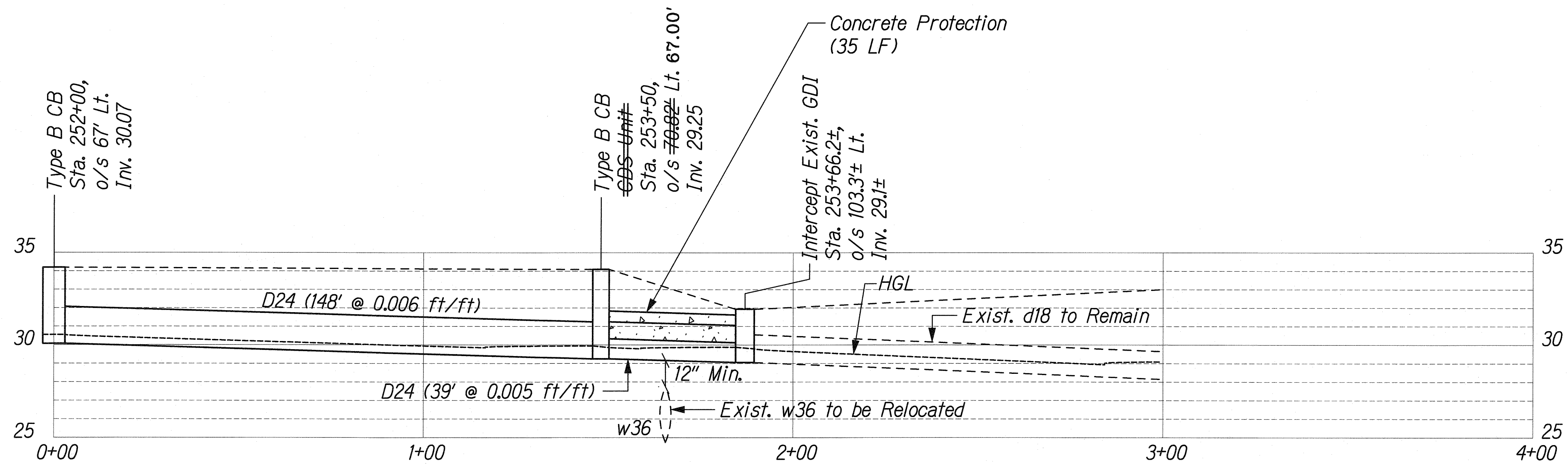
DRAINAGE PROFILES - 13

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: As Shown Date: Feb. 22, 2008

SHEET No. D2-25 OF 34 SHEETS

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 136 | 371 |



PROFILE - DRAINLINE K2

Scale: Horiz. 1"=20'
Vert. 1"=4'

| LEGEND FOR AS-BUILT POSTINGS | |
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| | Squiggly line for as-built deletion |
| | Double line for as-built deletion |
| Roadway | Text for as-built posting |

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| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DESIGNED BY | |
| | QUANTITIES BY | |
| | CHECKED BY | |

\\FORT WEAVER ROAD\DRAIN\PROFILE.dgn

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES - 14

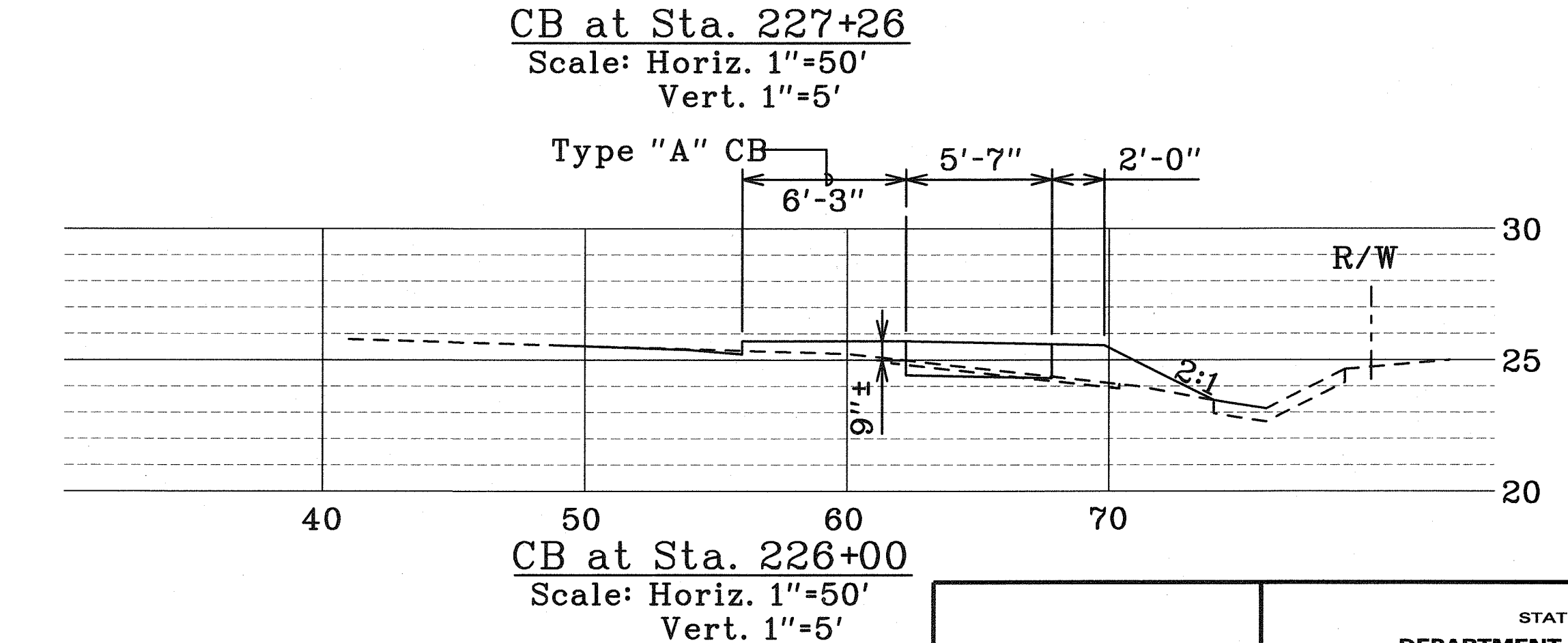
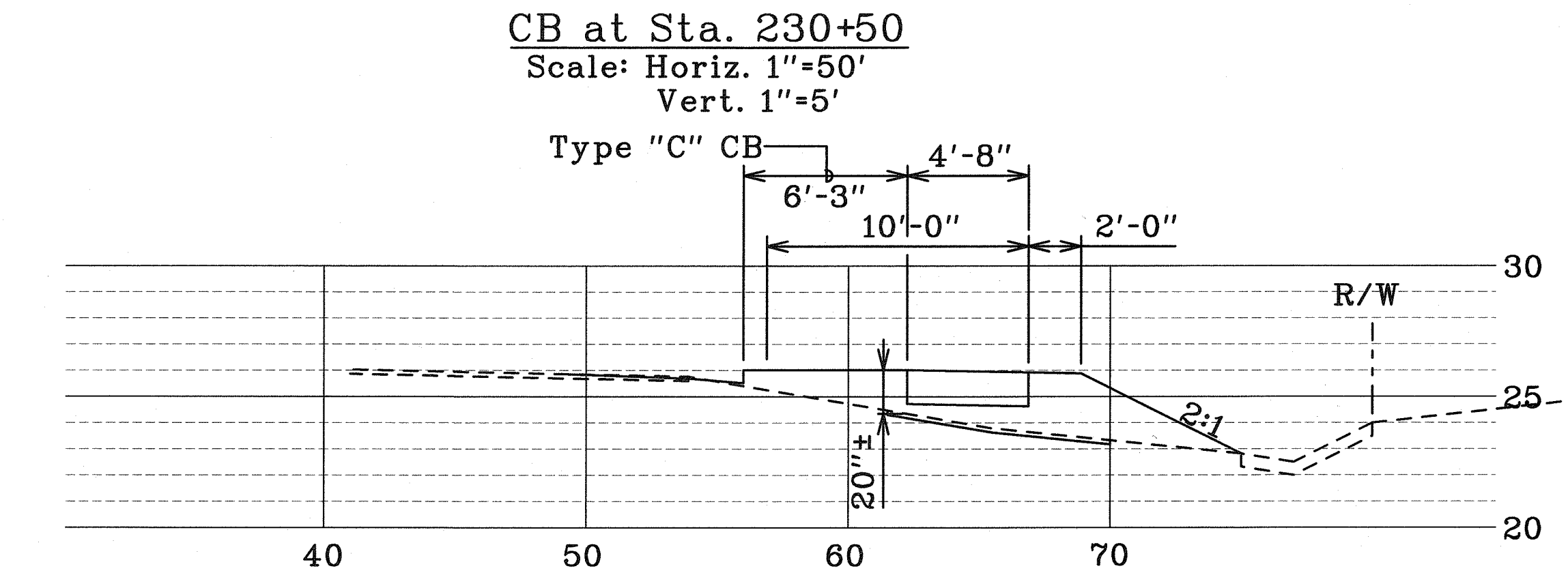
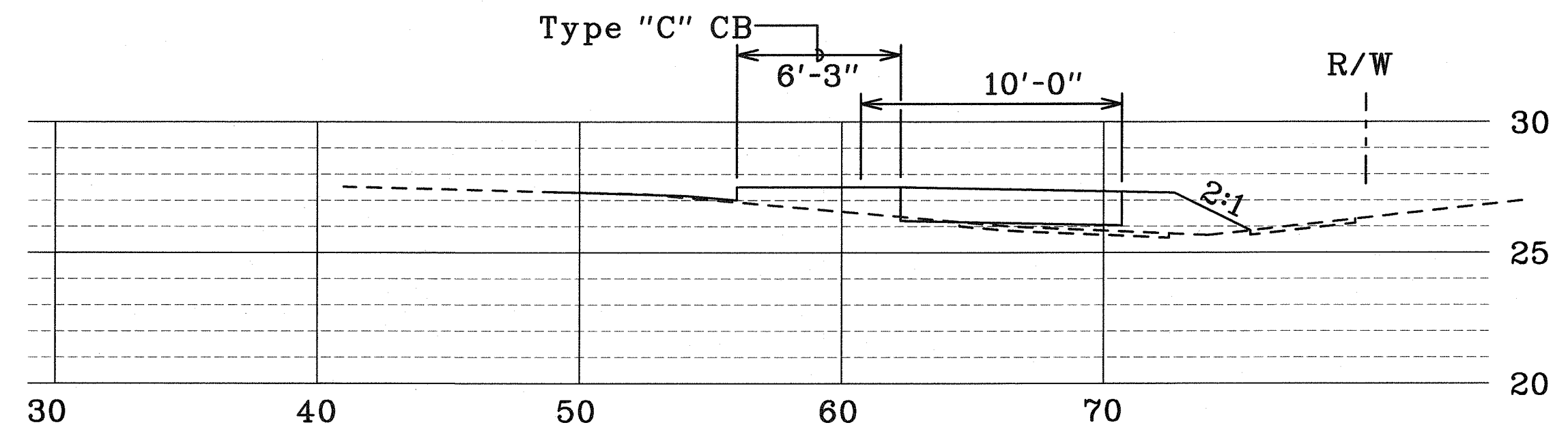
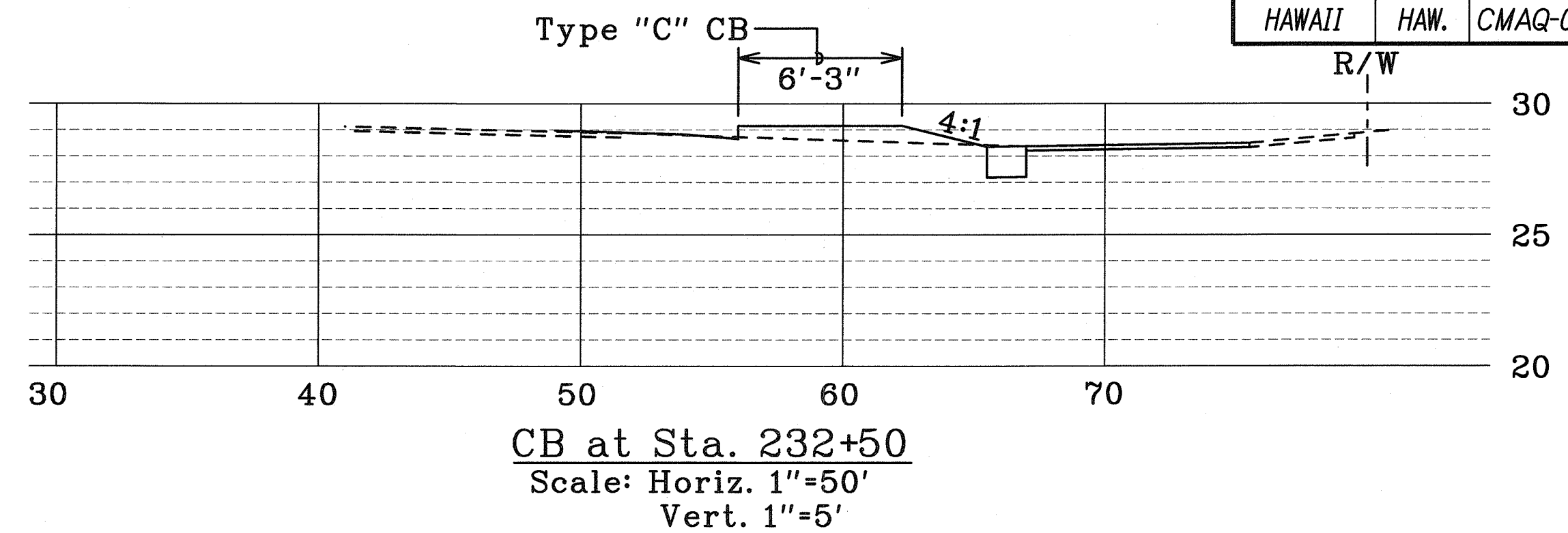
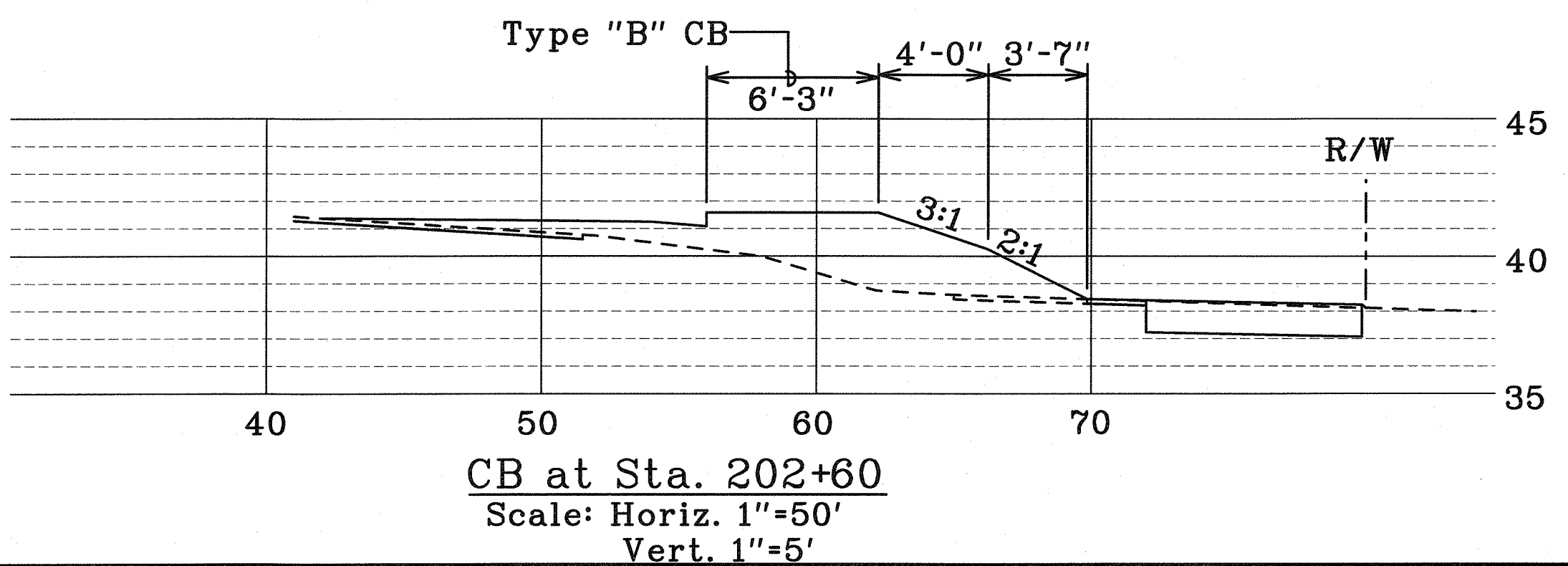
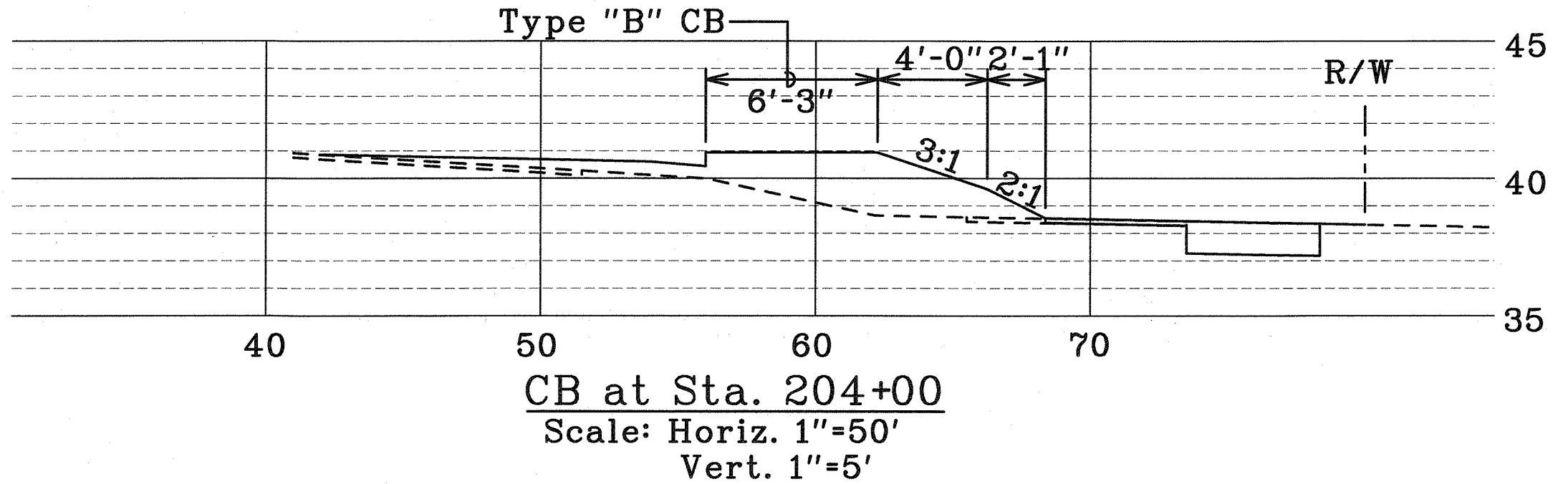
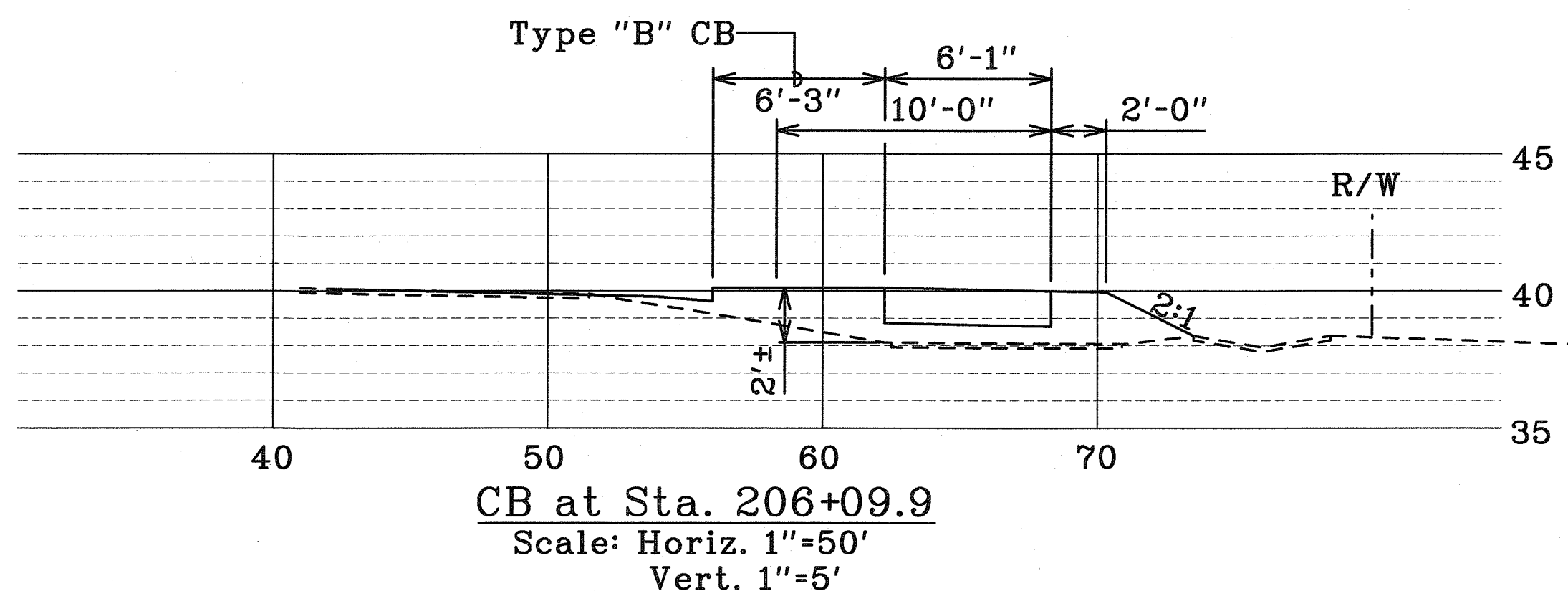
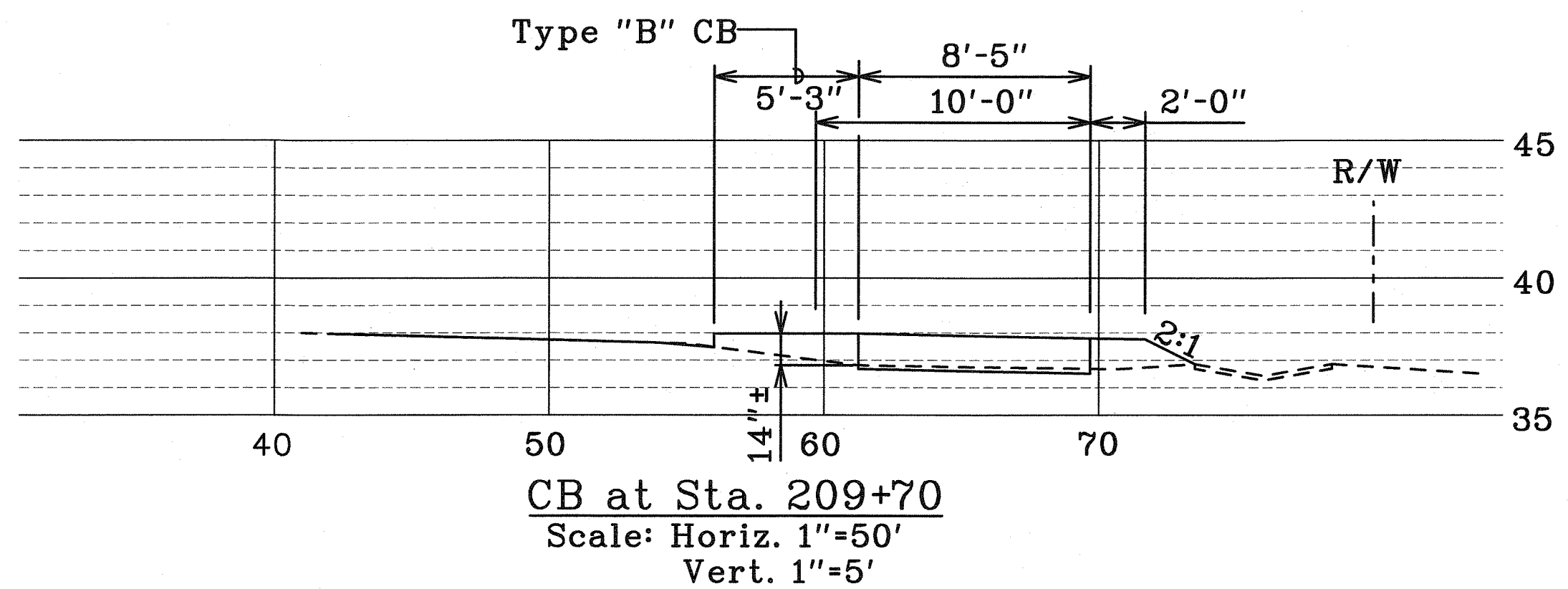
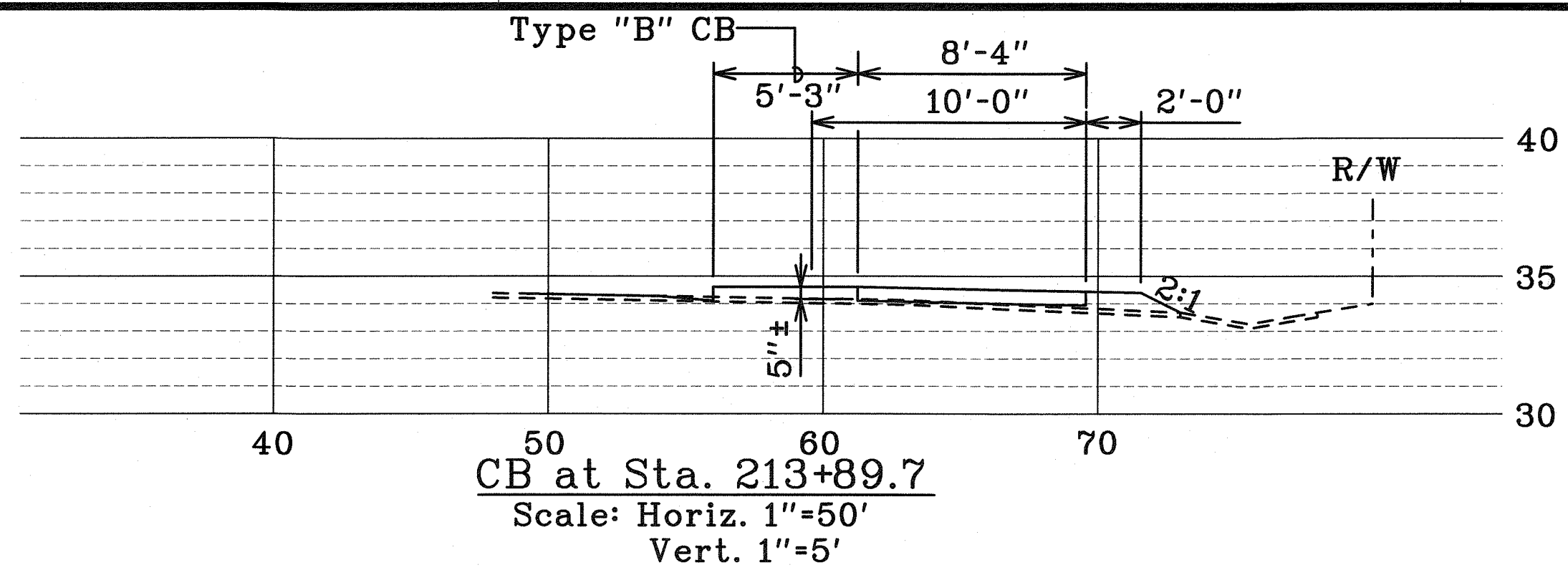
**FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD**

Scale: As Shown

SHEET No. D2-26 OF 34 SHEETS

AS-BUILT 136

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-------------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | C.O. 136S-1 | 371 |



| LEGEND FOR AS-BUILT POSTINGS | |
|------------------------------|-------------------------------------|
| | Squiggly line for as-built deletion |
| | Double line for as-built deletion |
| Roadway | Text for as-built posting |

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OR UNDER MY SUPERVISION
SIGNATURE: *R. M. Urasky* EXPIRATION DATE: 04/30/10
OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

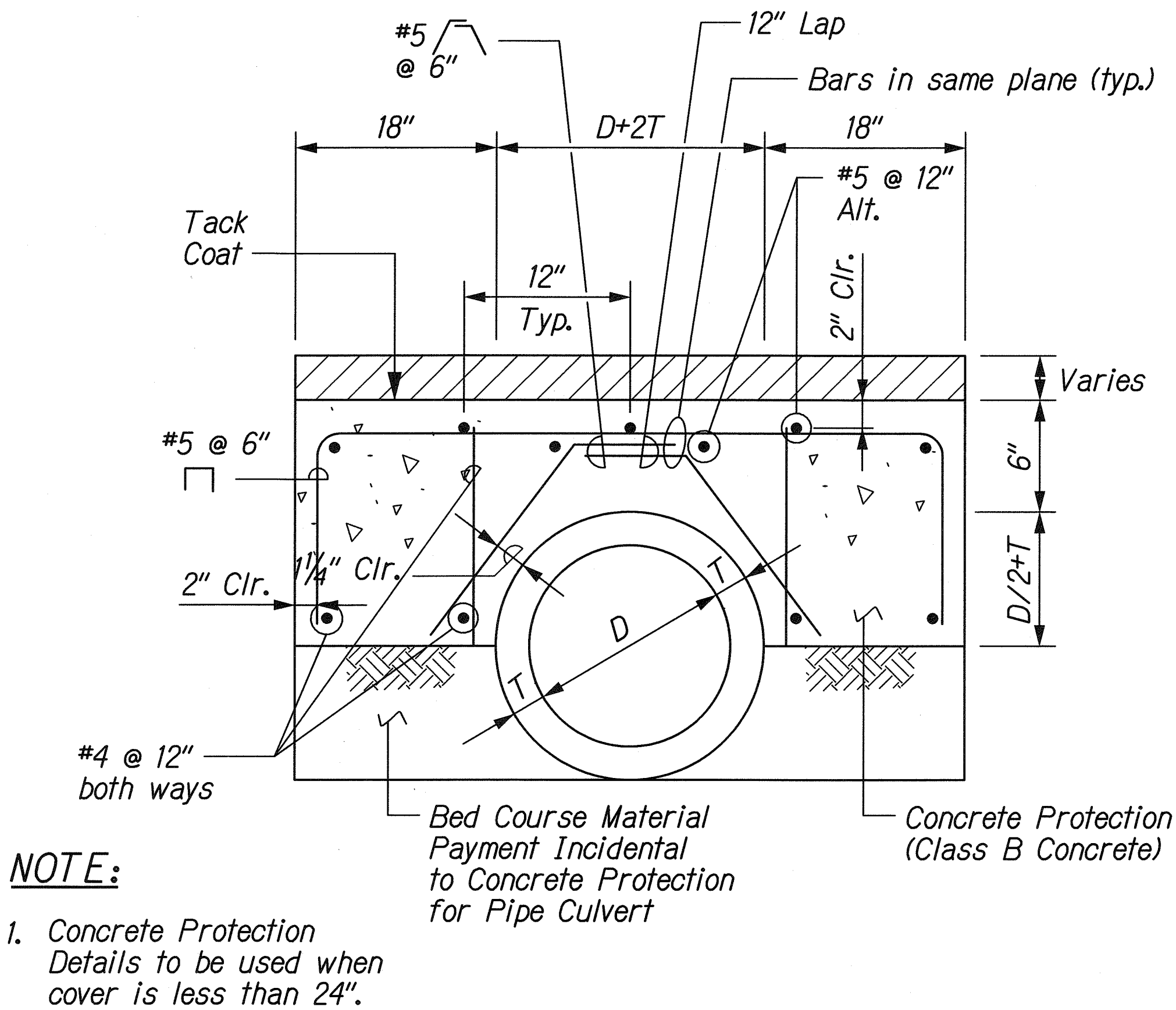
**CROSS SECTIONS
 AT CATCH BASINS**

FORT WEAVER ROAD WIDENING
 VICINITY OF AAWA DRIVE TO GEIGER ROAD

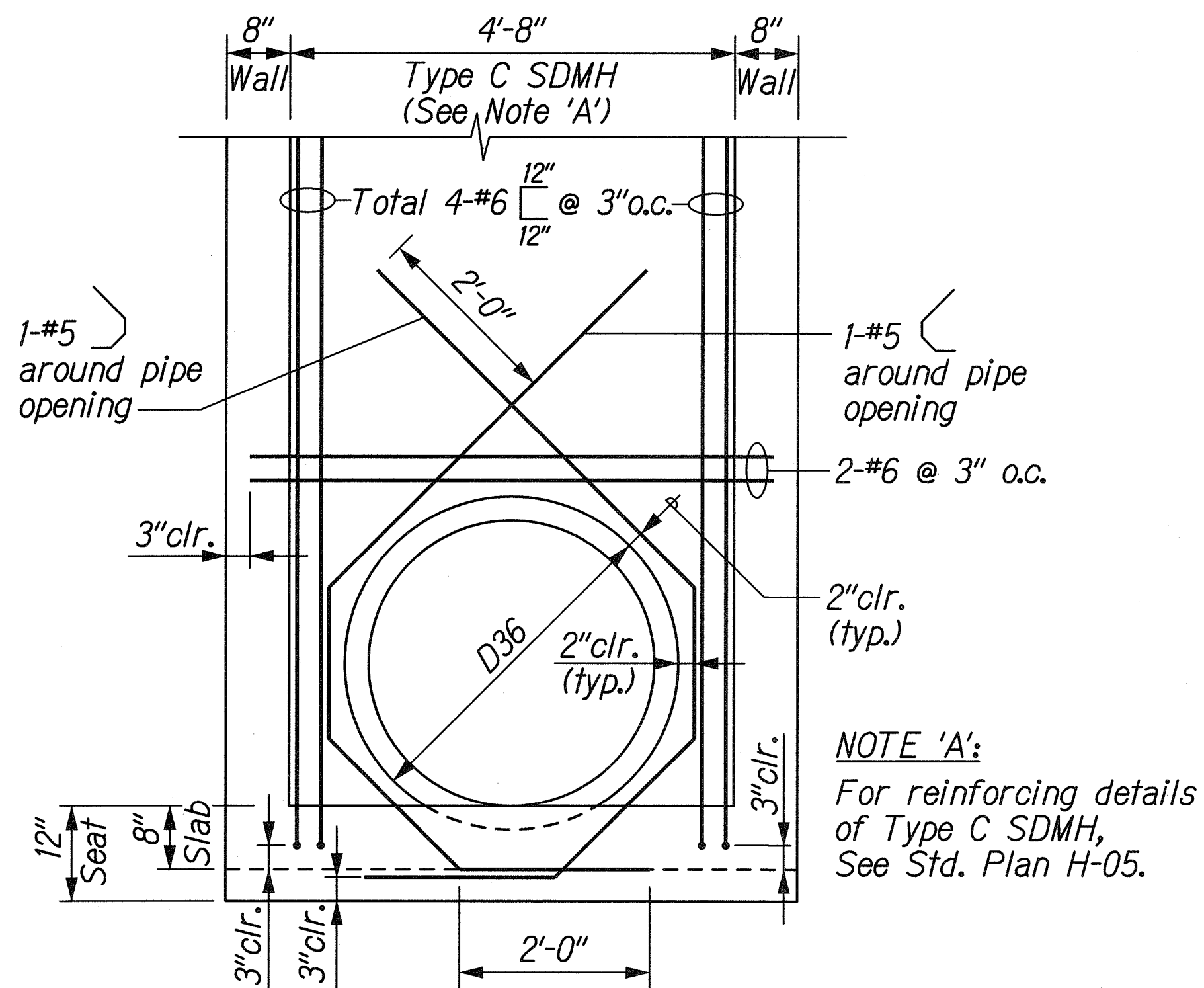
Scale: As Shown Date: Feb. 22, 2008

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| ORIGINAL PLAN | DATE |
| DESIGNED BY | |
| CHECKED BY | |
| NOTED BY | |
| QUANTITIES BY | |
| DATE | |

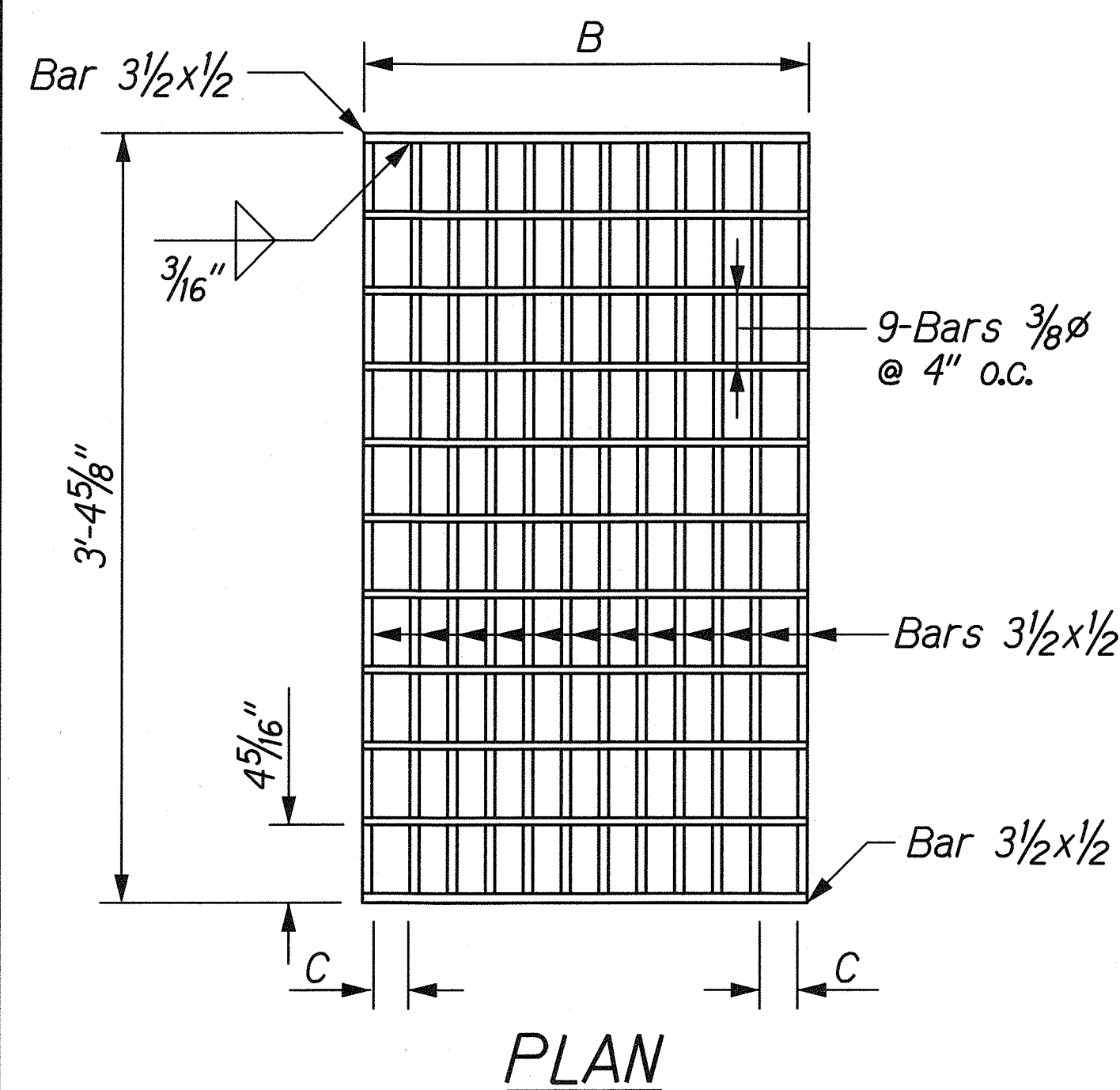
J:\FORT WEAVER ROAD\PACKAGE 2\ROAD\CO. 136S-1.dgn



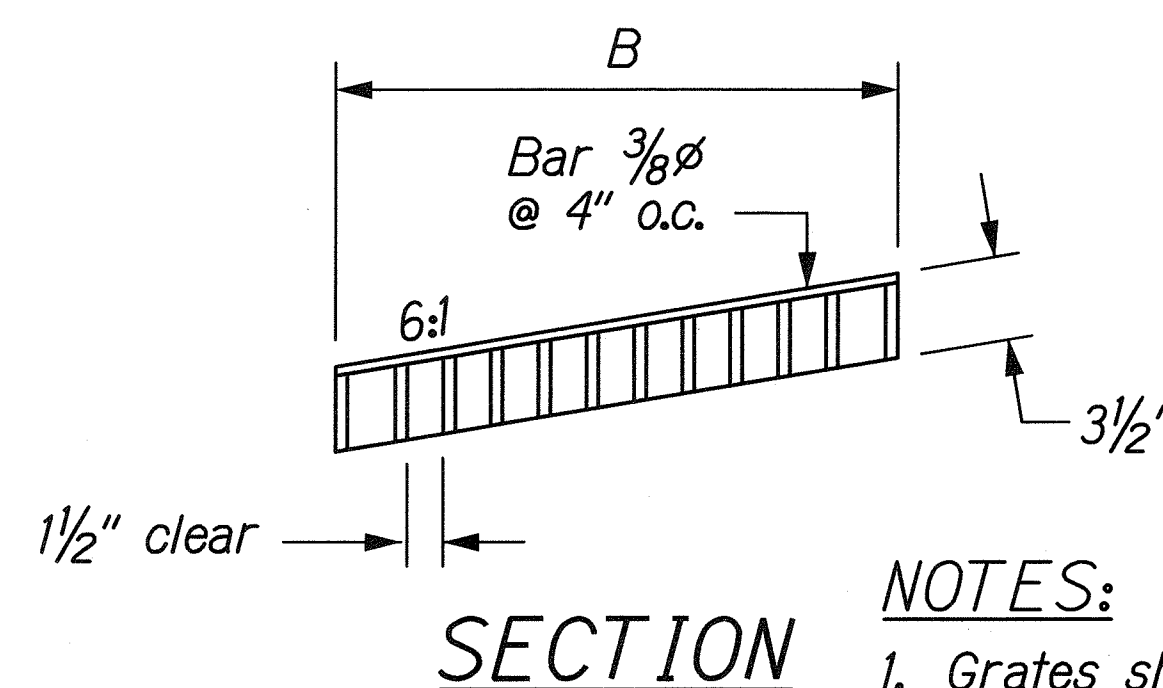
CONCRETE PROTECTION FOR CIRCULAR PIPE CULVERTS
Not to Scale



ADDITIONAL REINFORCING AT CULVERT OPENING FOR D36
Not to Scale



| DIMENSIONS | | | |
|------------|----------|------------|----|
| TYPE | NO. BARS | B | C |
| 61614P | 12 | 1'-11 1/2" | 2" |

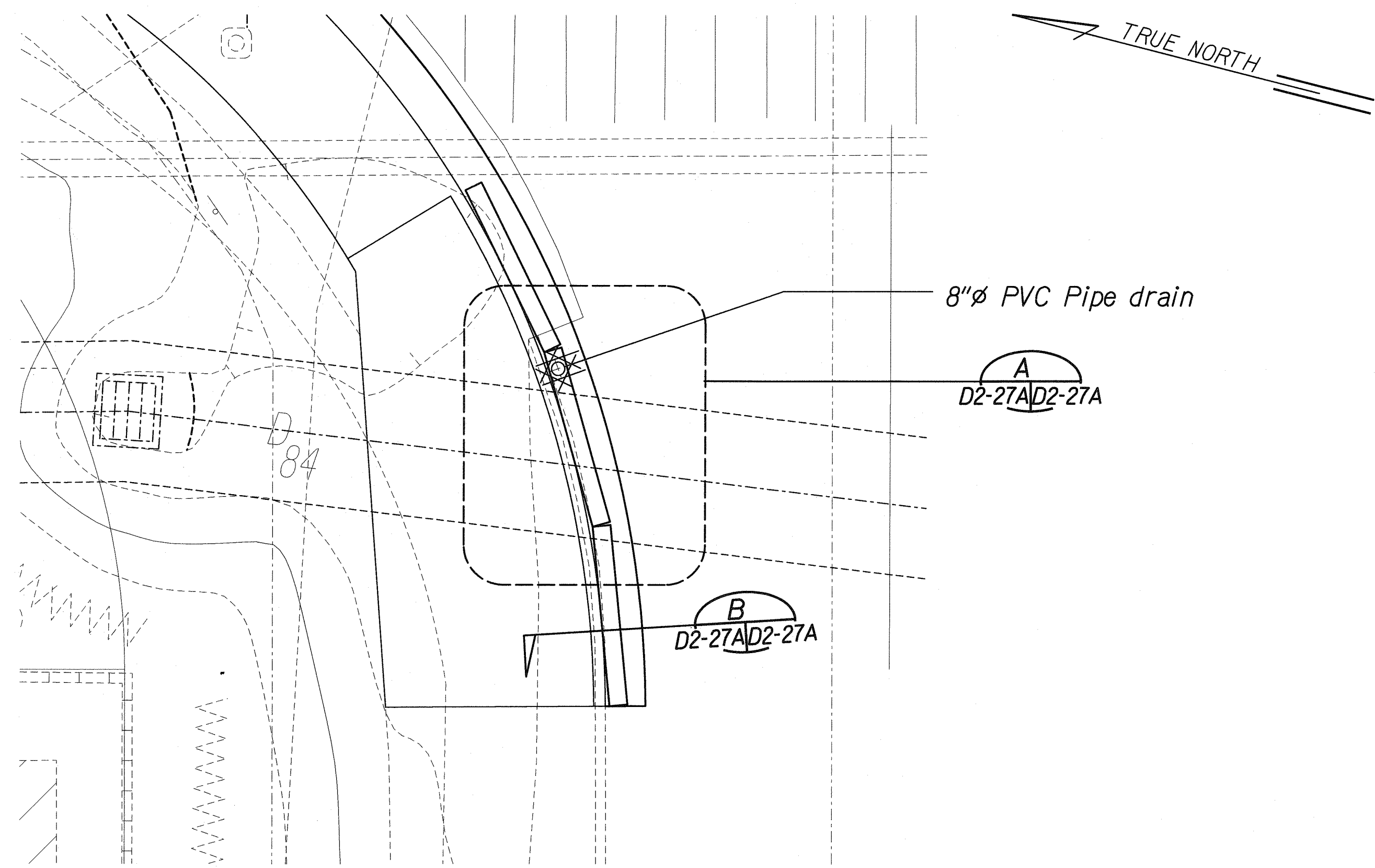


TYPE 61614P STEEL GRATE
Not to Scale

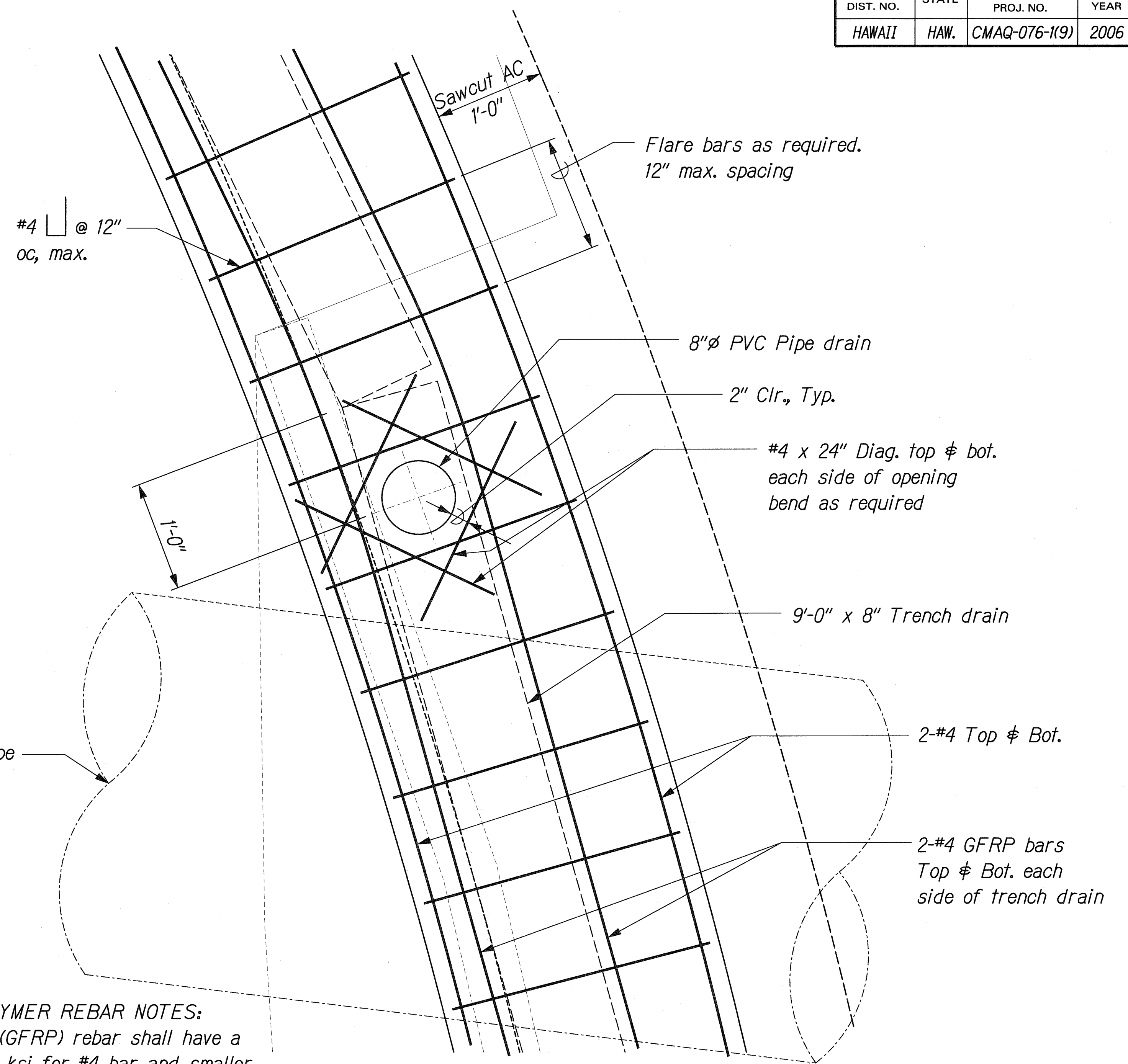
- NOTES:**
- Grates shall be zinc coated after fabrication.
 - All welds 3/8" unless otherwise noted.
 - Anchor bolts shall be ASTM A307 and zinc coated.

| | |
|--|--|
| | <p>STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION</p> <p>DRAINAGE DETAILS
MISCELLANEOUS DETAILS</p> <p>FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD</p> |
| | <p>Scale: NONE Date: Feb. 22, 2008</p> |

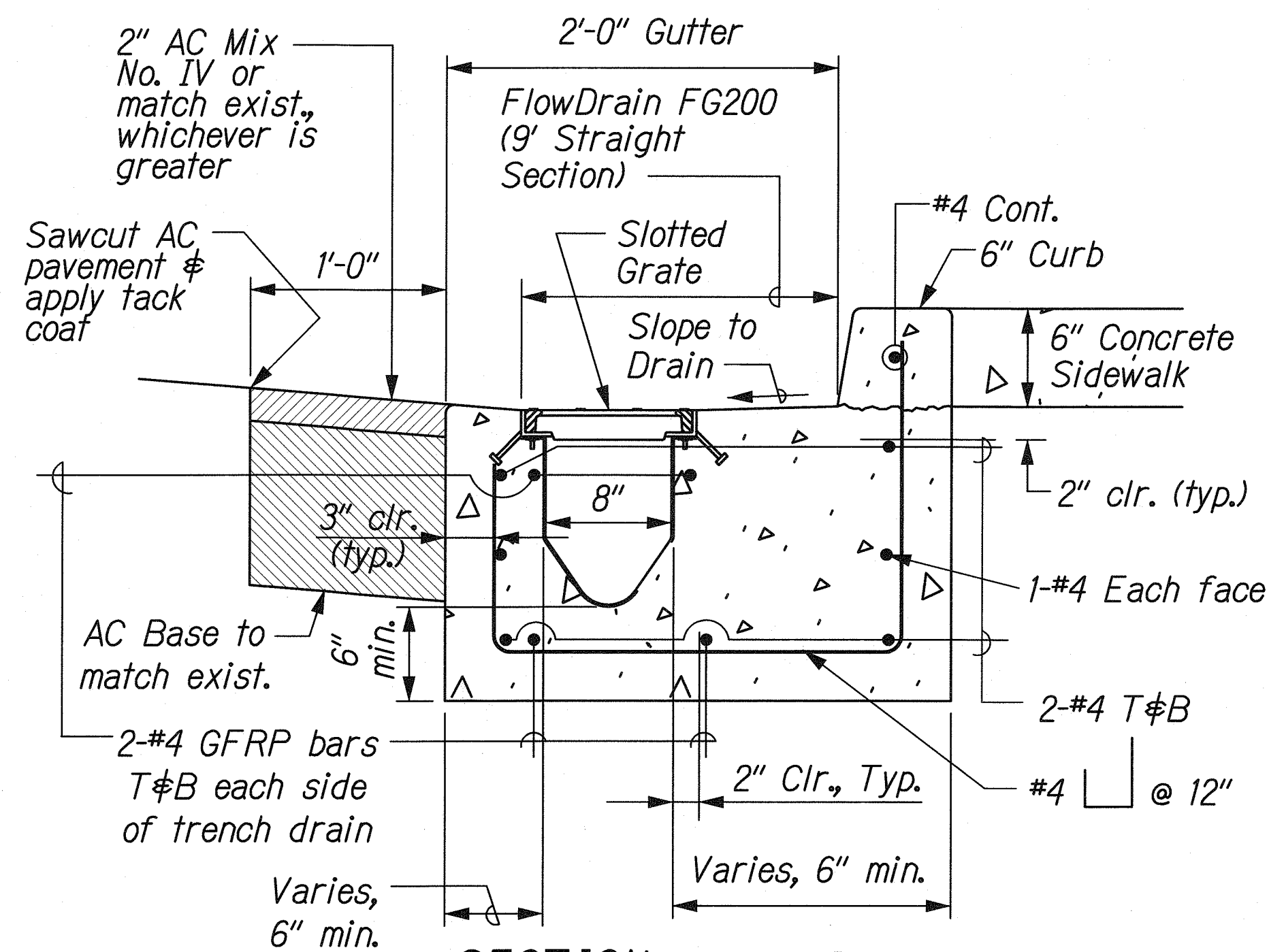
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 137 S-1 | 371 |



PLAN
Scale: 1"=5'



PLAN
Scale: 1 1/2"=1'-0" D2-27AD2-27A



SECTION
Scale: 1 1/2"=1'-0" D2-27AD2-27A

GLASS FIBER REINFORCED POLYMER REBAR NOTES:

1. Glass fiber reinforced polymer (GFRP) rebar shall have a minimum tensile strength of 110 ksi for #4 bar and smaller. All others shall have a minimum tensile strength of 95 ksi. The allowable stress is equal to 1/4 of the tensile strength.
2. The modulus of elasticity of the GFRP bar shall be a minimum 5,900,000 psi.
3. Minimum lap splice lengths for the GFRP bar shall be 42 bar diameters unless otherwise noted.
4. All GFRP bars shall be securely tied in place.
5. The GFRP bars may be cut in the field with a masonry or diamond blade.
6. All work including materials and bends shall follow manufacturer's recommendations.

Approved:

Melvin S. S. S.
Chief, Civil Engineering Branch, DPP

5/7/08
Date



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ME OR UNDER MY SUPERVISION.
David K. Fujiwara
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS MISCELLANEOUS DETAILS

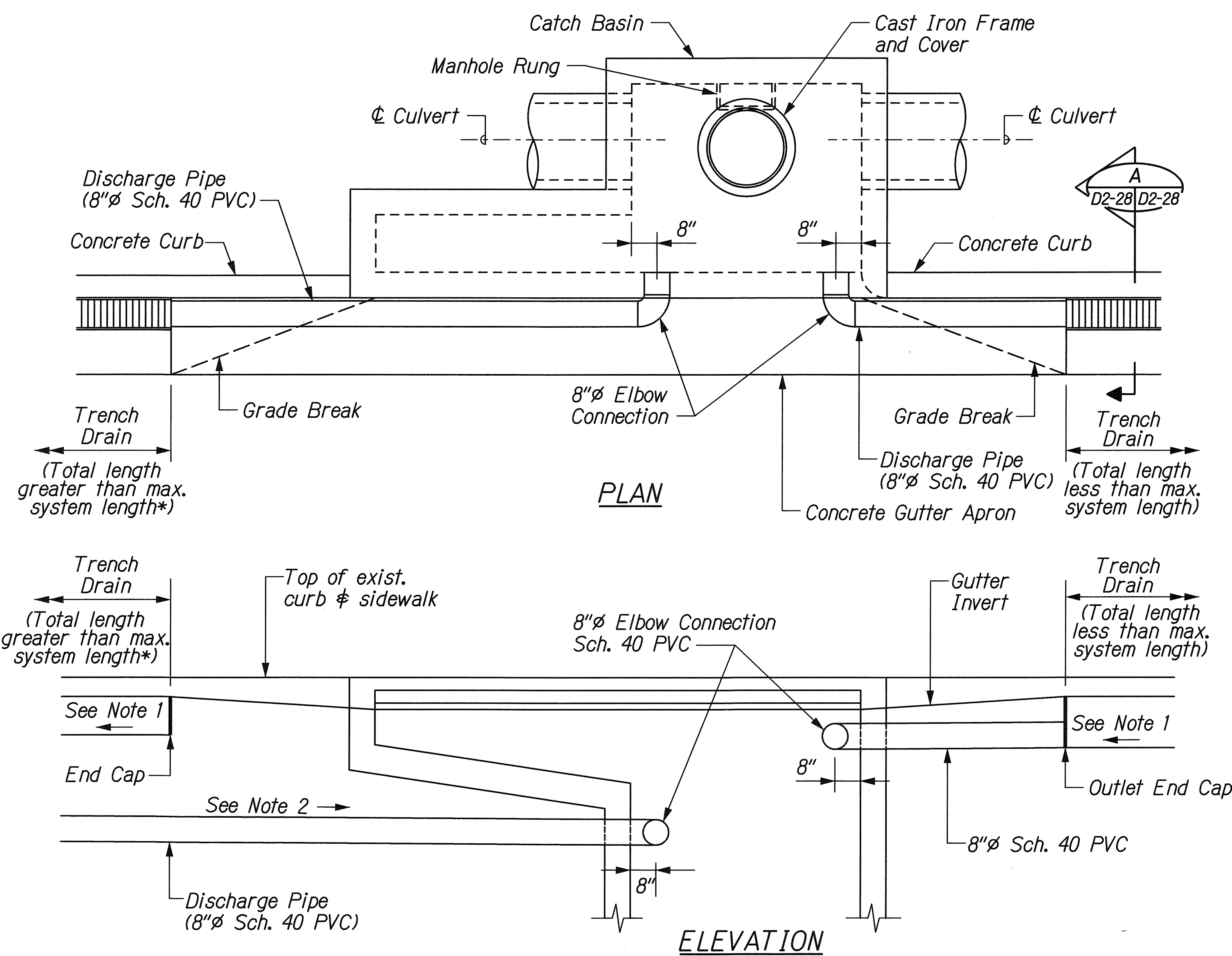
FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Feb. 22, 2008

SHEET No. D2-27A OF 34 SHEETS

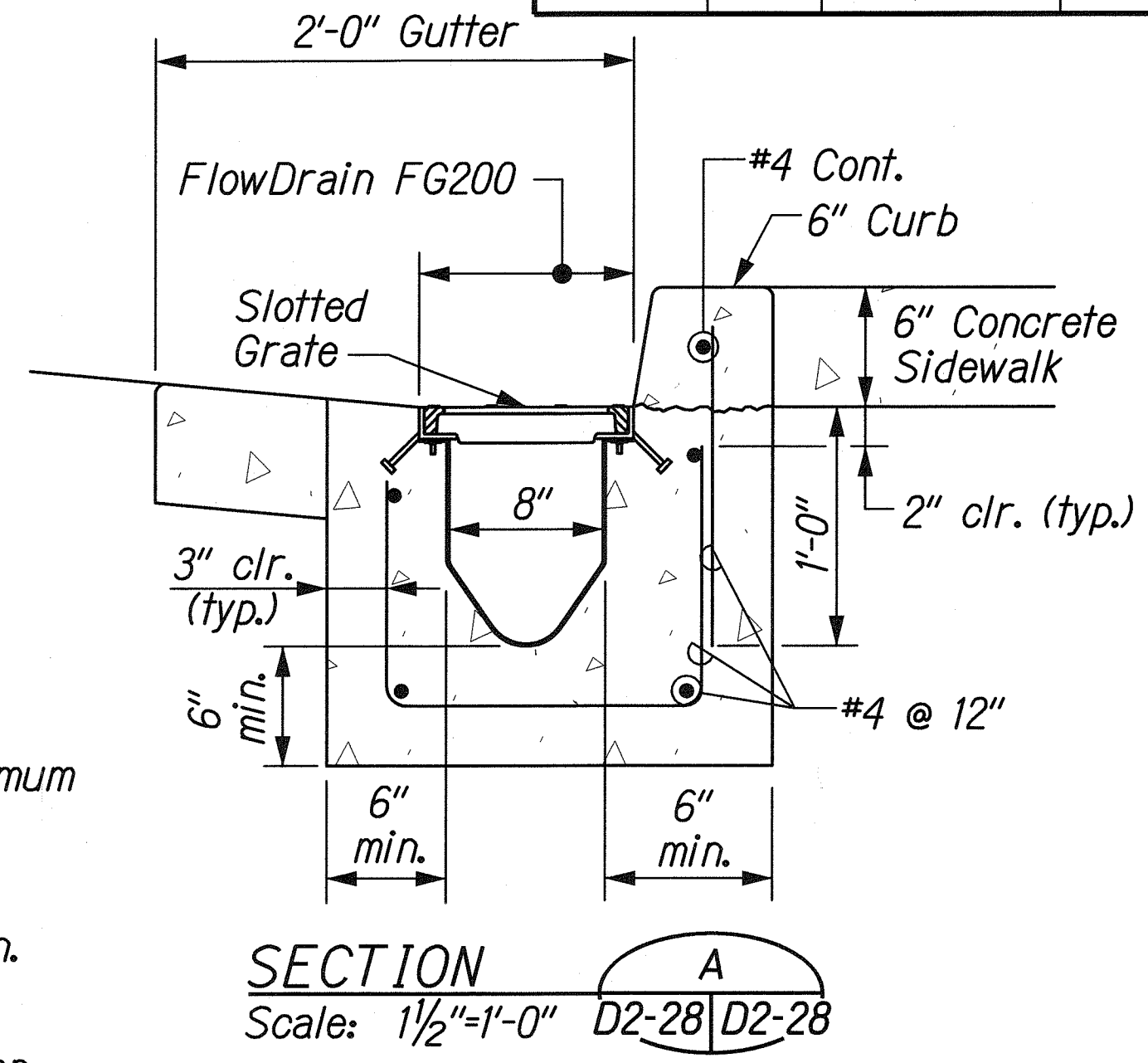
137S-1

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 138 | 371 |

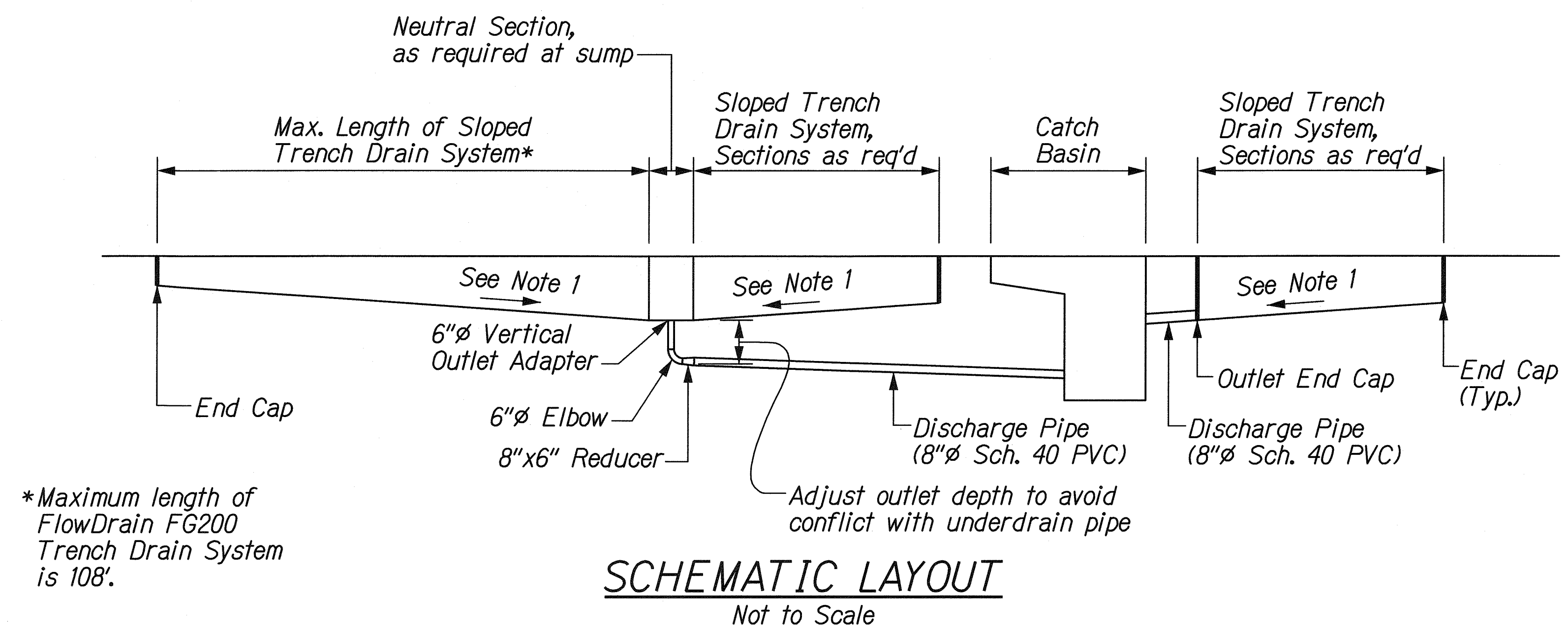


TRENCH DRAIN NOTES:

1. Trench drains shall have a minimum internal slope of 0.6%, or as specified by the manufacturer.
2. Discharge pipes shall have a min. slope of 1.0%
3. Slotted grate shall be ductile iron suitable for auto, light truck, or van traffic and capable of supporting a HS-20 Loading. Grates shall also be ADA compliant and resistant to bicycle tires.



LONGITUDINAL TRENCH DRAIN



*Maximum length of FlowDrain FG200 Trench Drain System is 108'.

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SIGNATURE: *[Signature]* EXPIRATION DATE: 04/30/10 OF THE LICENSE:

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
TRENCH DRAIN

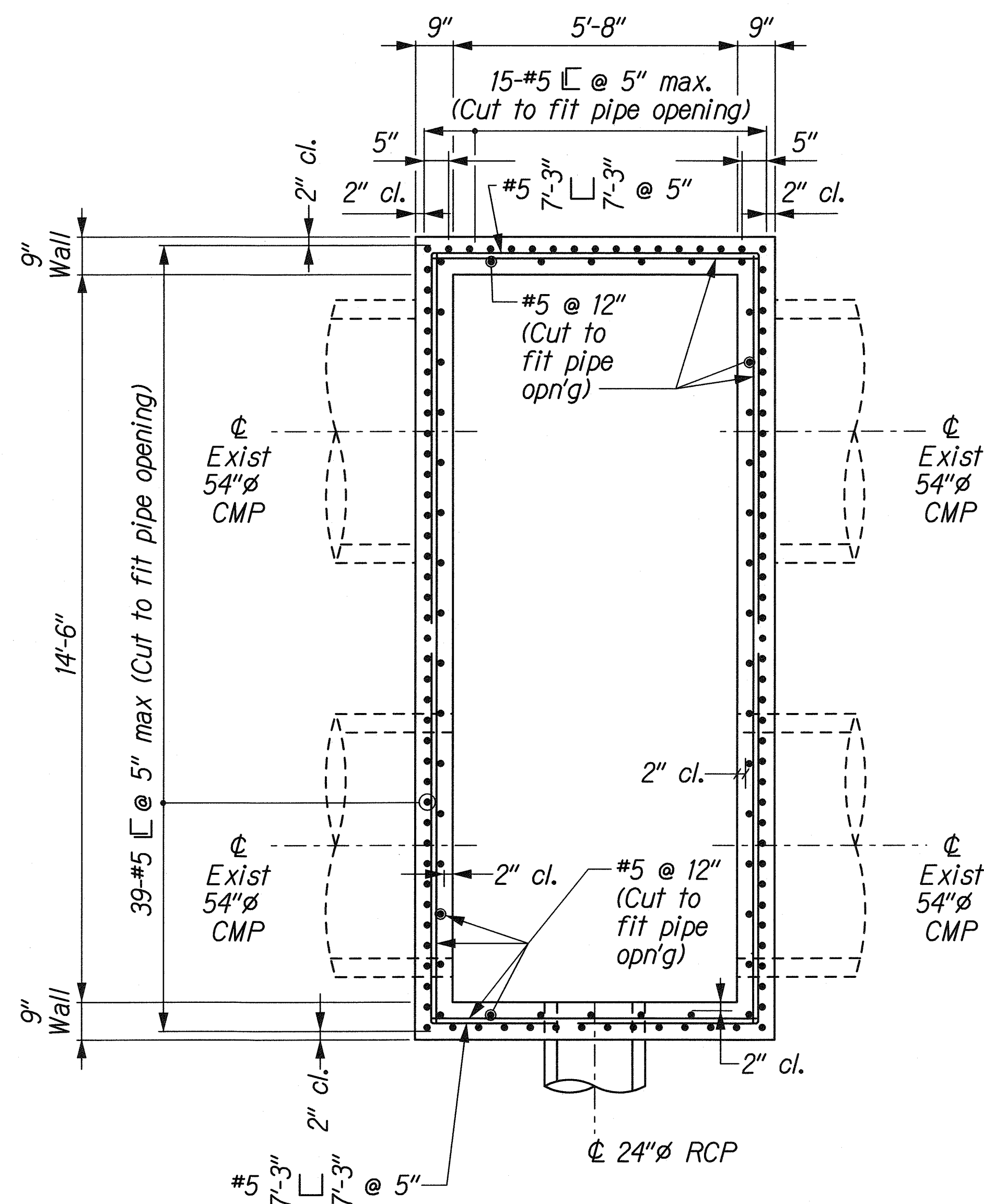
FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: Date: Feb. 22, 2008

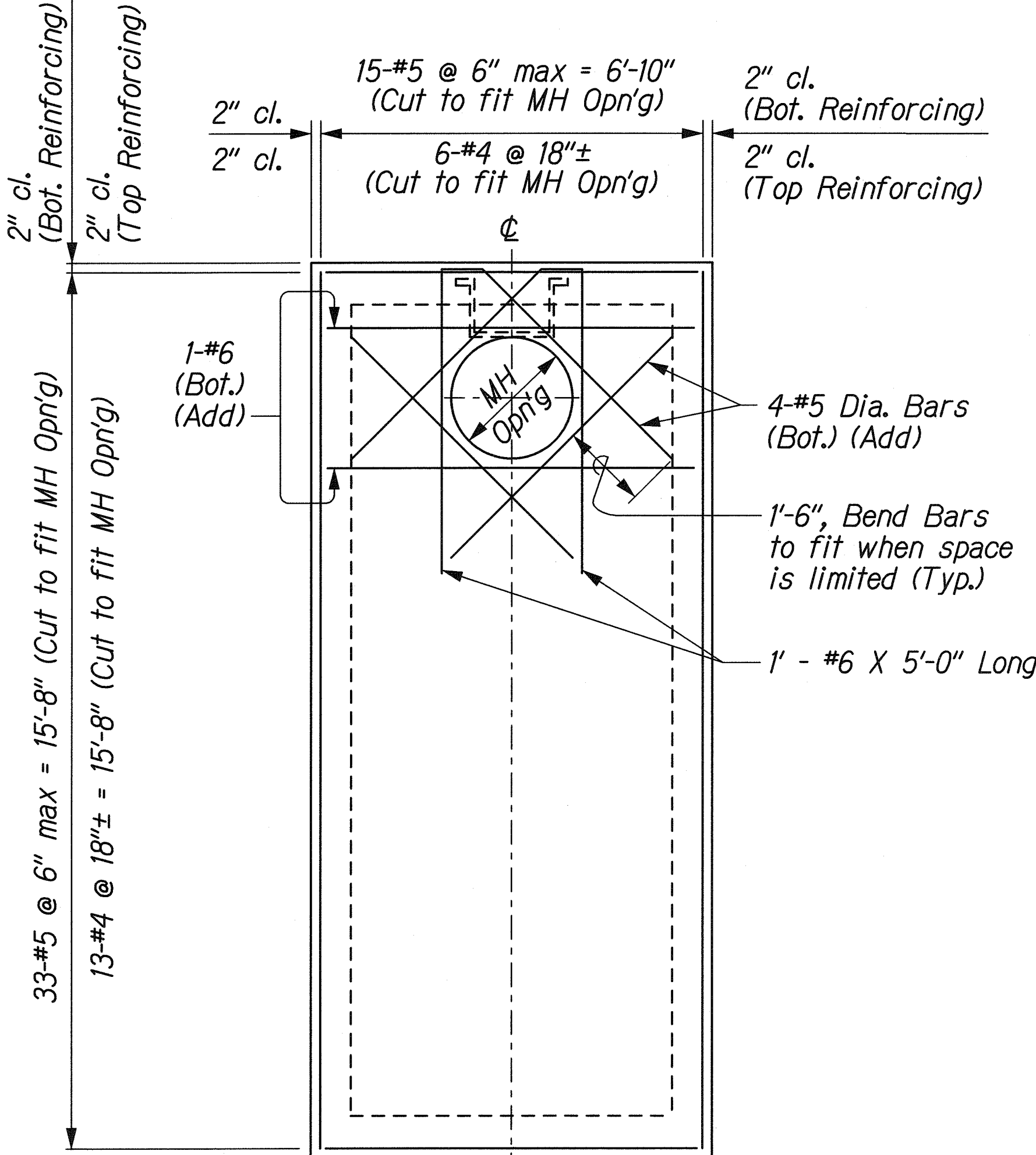
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| DESIGNED BY | DATE |
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| CHECKED BY | |
| NOTED BY | |
| QUANTITIES BY | |
| NO. | |

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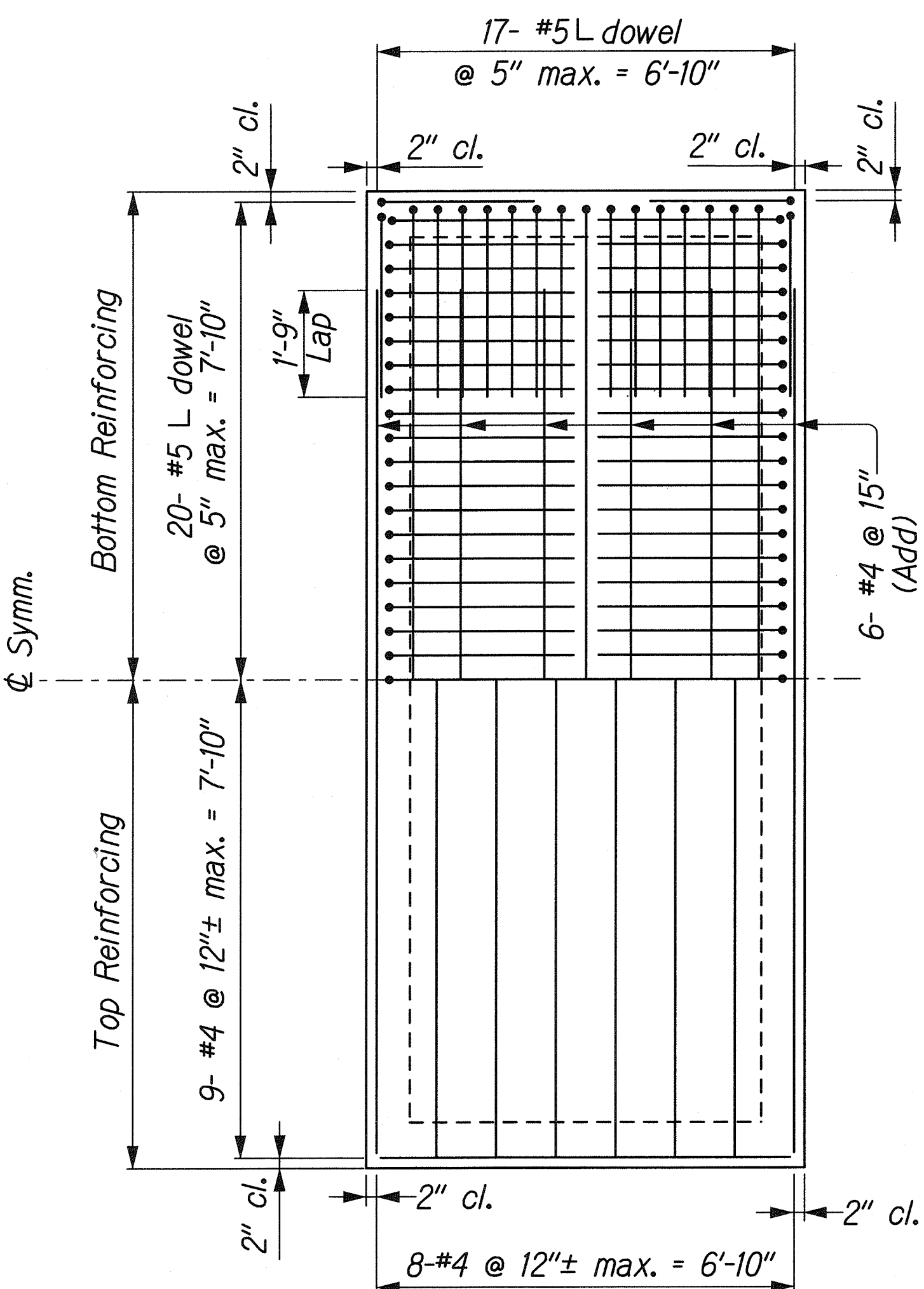
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 140 | 371 |



SECTIONAL PLAN
Scale: 1/2" = 1'- 0"



ROOF SLAB REINFORCING PLAN
Scale: 1/2" = 1'- 0"



BASE SLAB REINFORCING PLAN
Scale: 1/2" = 1'- 0"

NOTE:
For Added Reinforcing at pipe opening,
See Standard Plan H-05.

| | |
|---------------|------|
| DESIGNED BY | DATE |
| CHECKED BY | |
| NOTED BY | |
| QUANTITIES BY | |
| REVISIONS | |

\\FORT-WEAVER-ROAD\DRAWING\DP-035.dgn

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Date: 04/30/10
Expiration Date of License

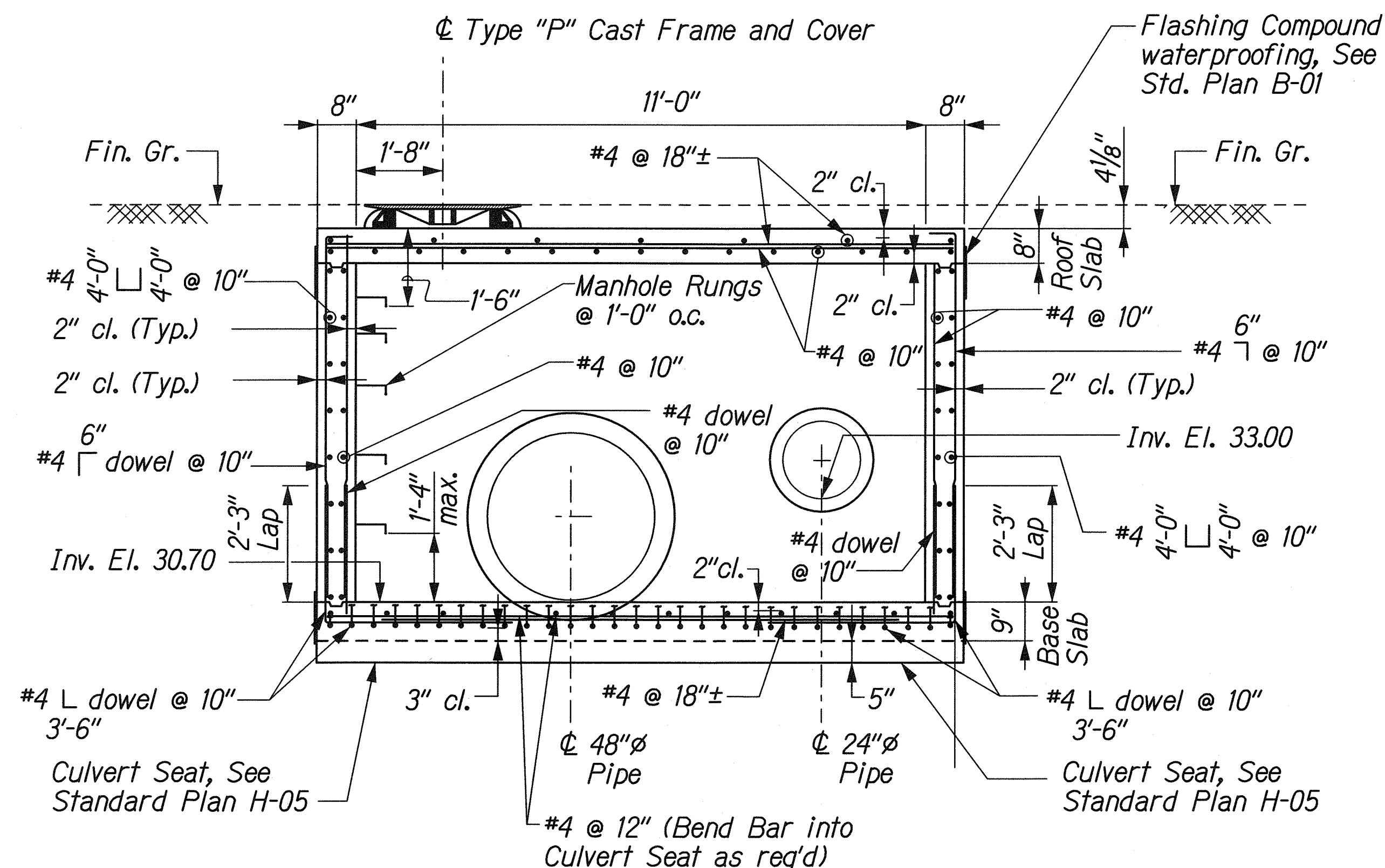
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPE H SDMH MODIFIED (2 of 2)
AT STA. 186+16.6

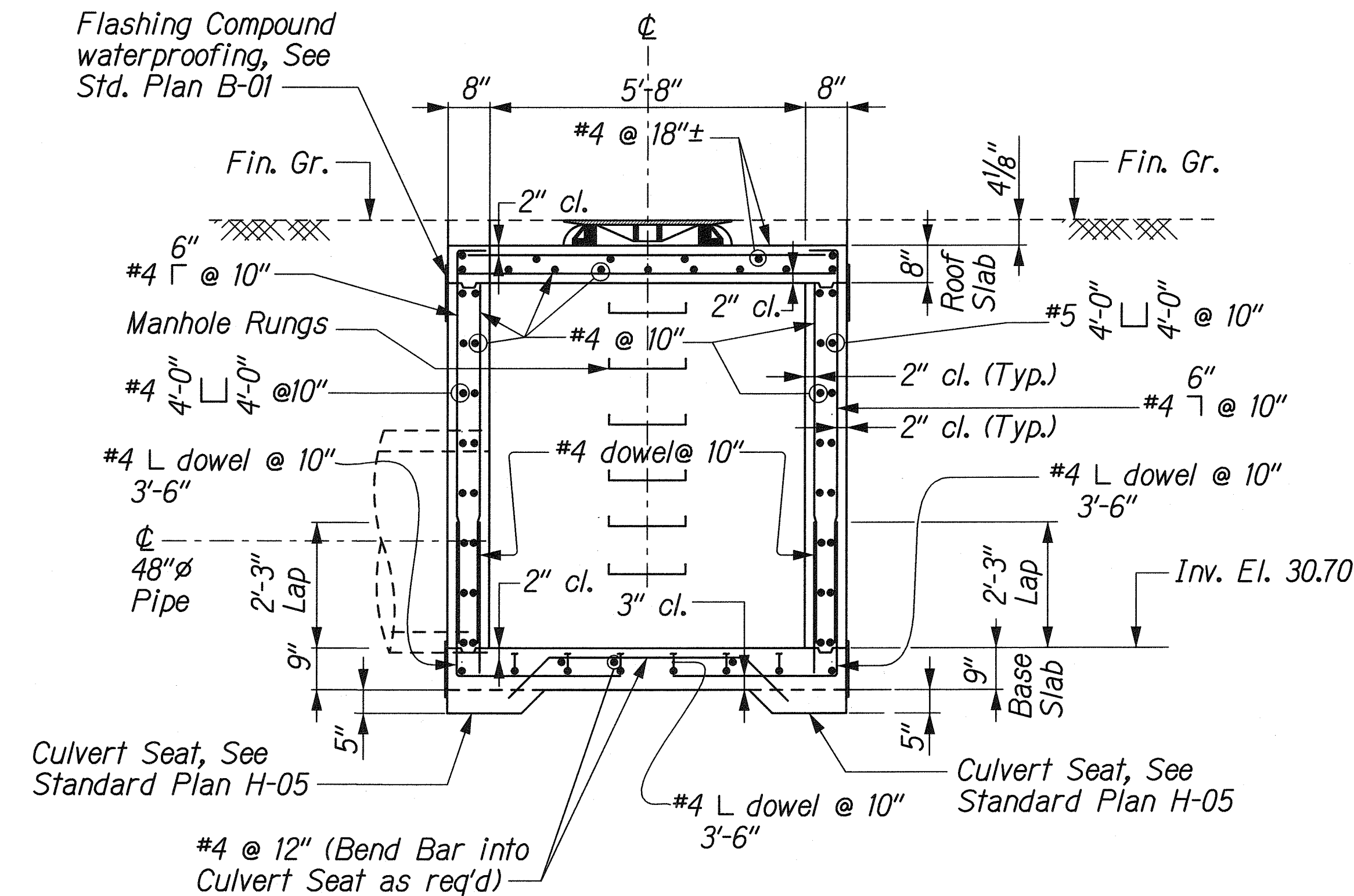
FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1/2" = 1'-0" Date: Feb. 22, 2008

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 141 | 371 |



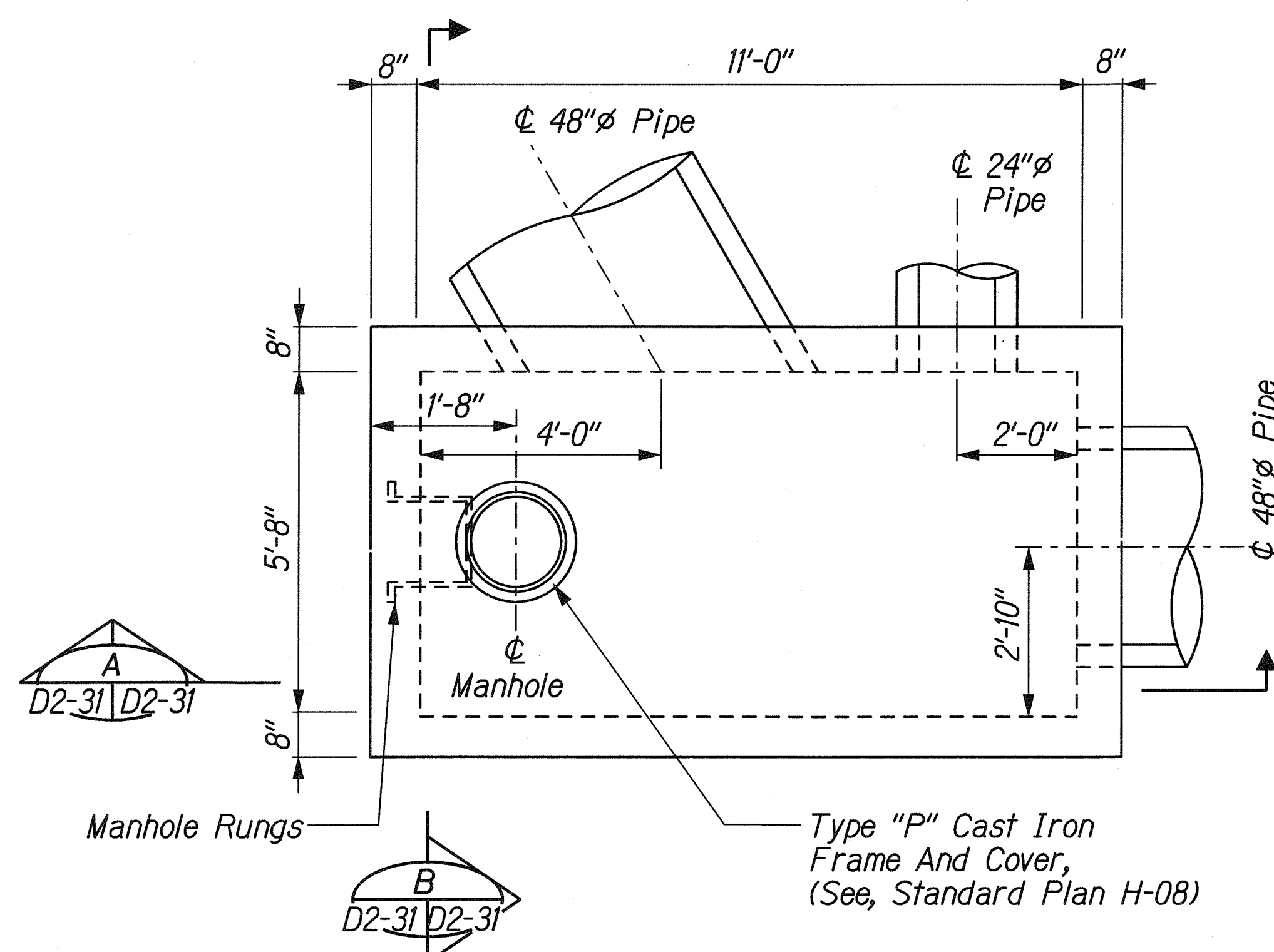
SECTION A-A
Scale: $\frac{1}{2}'' = 1'-0''$



SECTION B-B
Scale: $\frac{1}{2}'' = 1'-0''$

NOTE:

For Added Reinforcing at pipe opening,
See Standard Plan H-05.

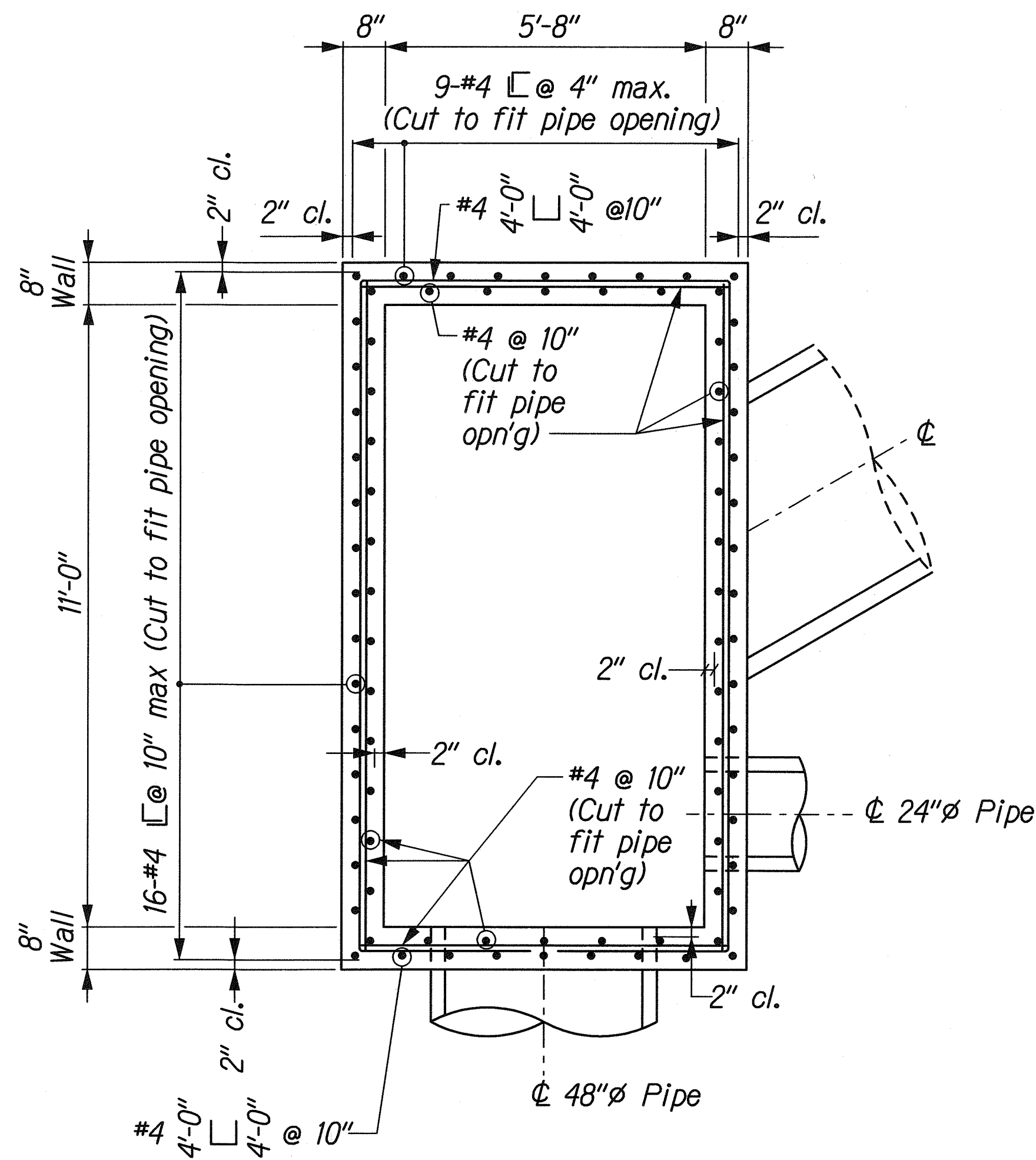


PLAN
Scale: $\frac{1}{2}'' = 1'-0''$

| | | |
|--|--|---------------------|
| | STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION | |
| | TYPE J SDMH MODIFIED (1 of 2)
AT STA. 186+47.3 | |
| | FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD | |
| | Scale: $\frac{1}{2}'' = 1'-0''$ | Date: Feb. 22, 2008 |

SHEET No. D2-31 OF 34 SHEETS

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 142 | 371 |

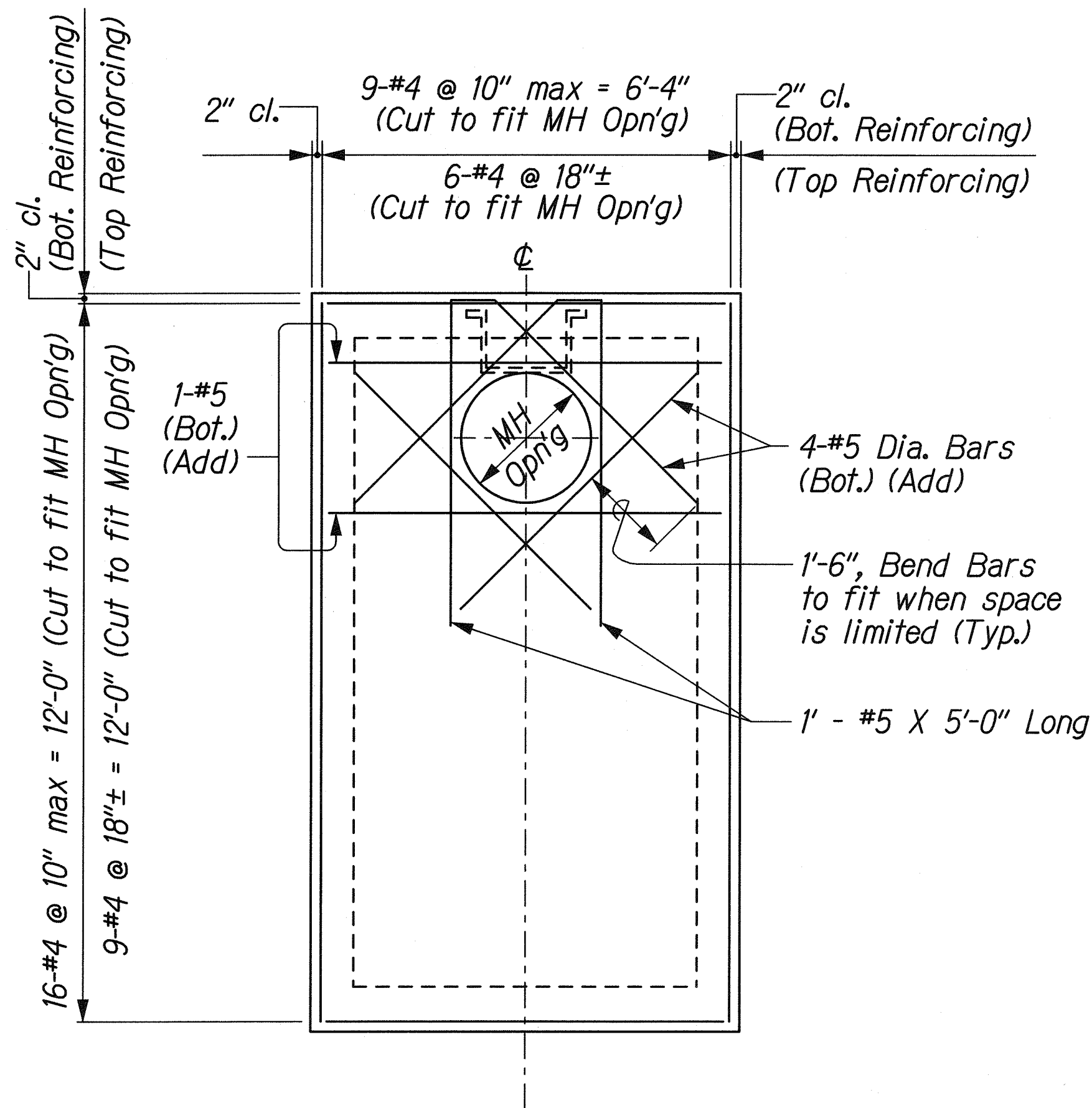


SECTIONAL PLAN

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

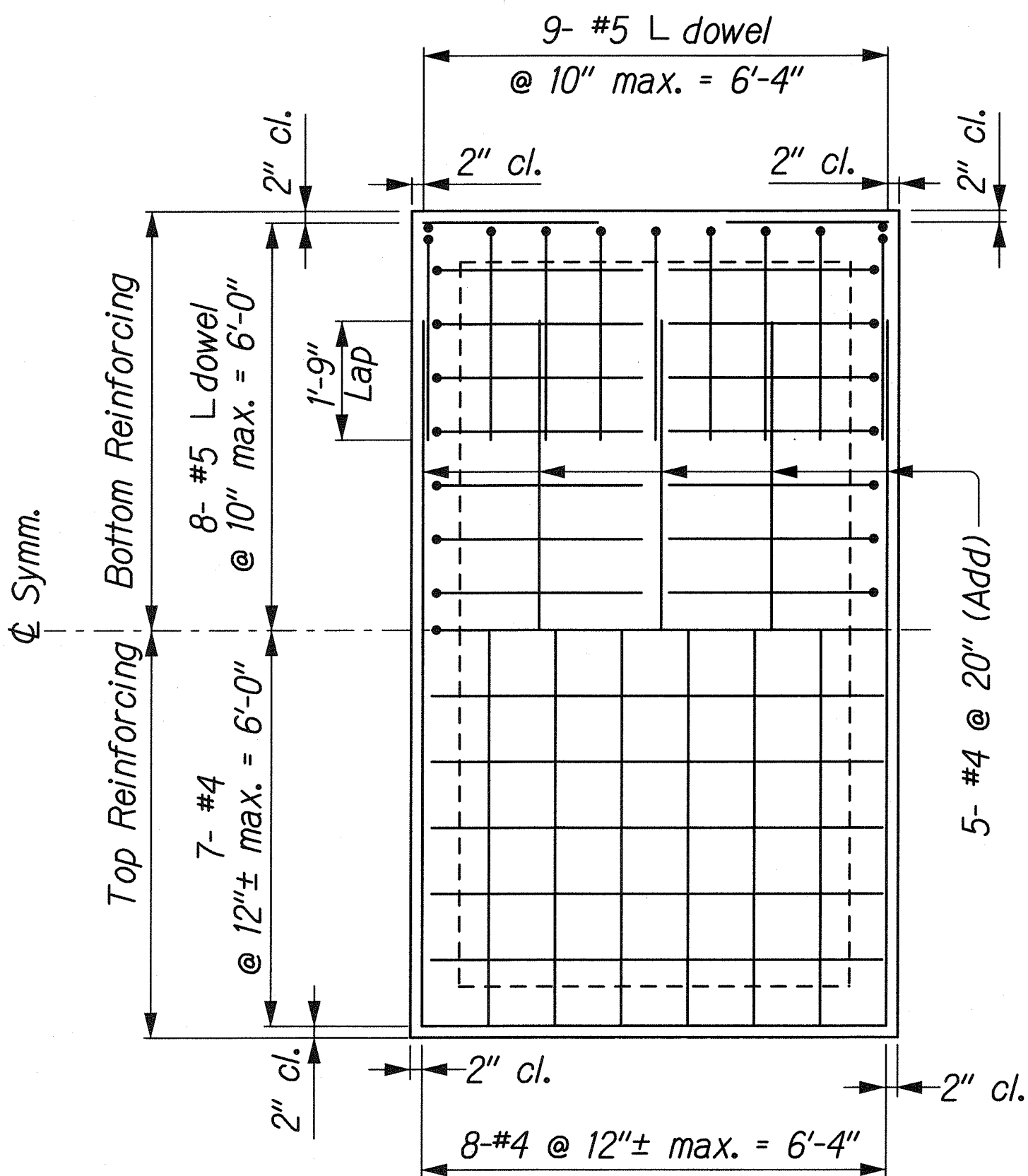
NOTE:

For Added Reinforcing at pipe opening,
See Standard Plan H-05.



ROOF SLAB REINFORCING PLAN

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



BASE SLAB REINFORCING PLAN

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

| DATE | BY |
|---------------|----|
| DESIGNED BY | |
| DRAWN BY | |
| CHECKED BY | |
| NOTED BY | |
| QUANTITIES BY | |
| DATE | |

U:\FORT WEAVER ROAD\DRAWING\DD-04E.dgn

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Hui Pang Chen
SIGNATURE

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EXPIRATION DATE
OF THE LICENSE

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

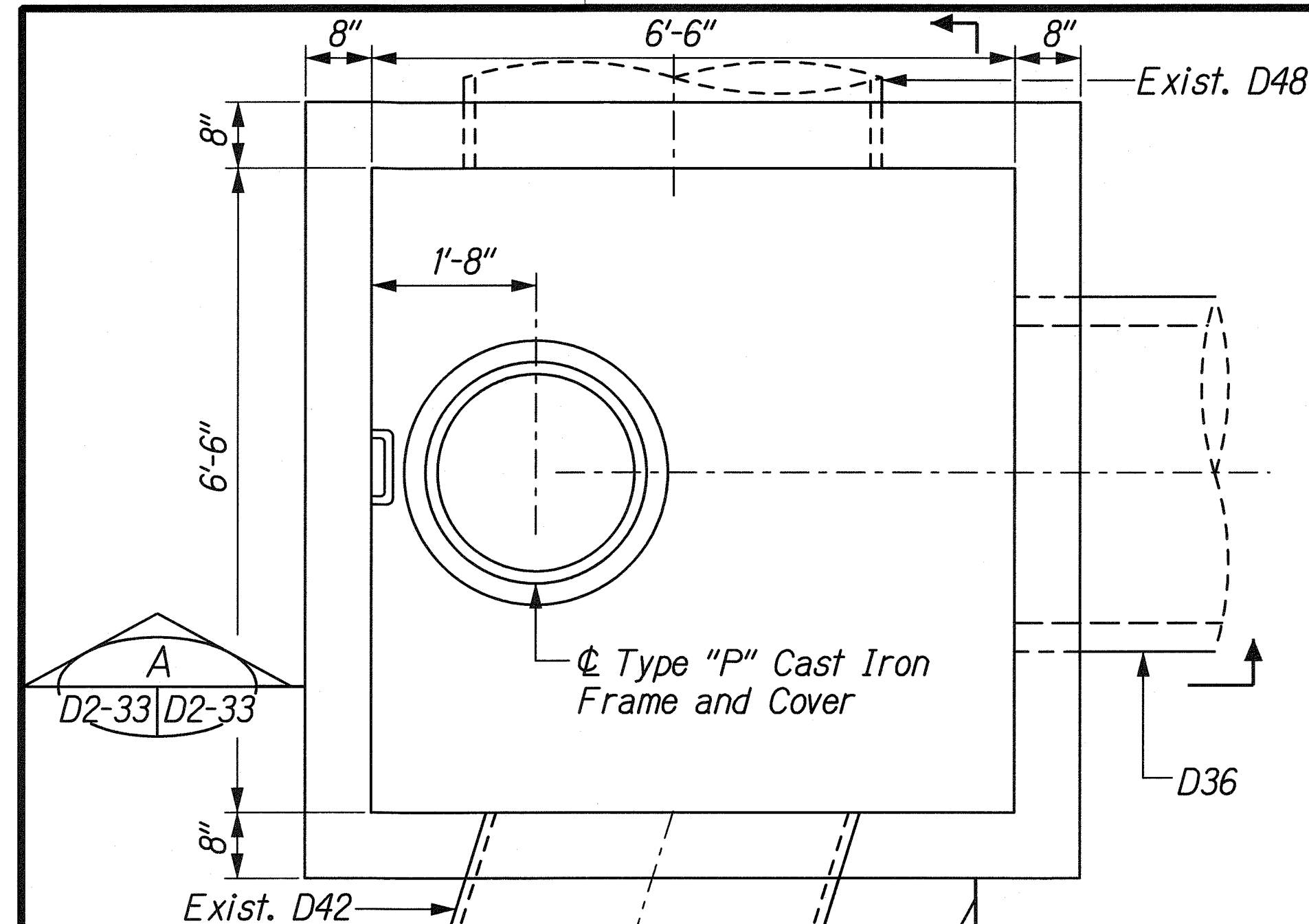
TYPE J SDMH MODIFIED (2 of 2)

AT STA. 186+47.3

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1/2" = 1'-0" Date: Feb. 22, 2008

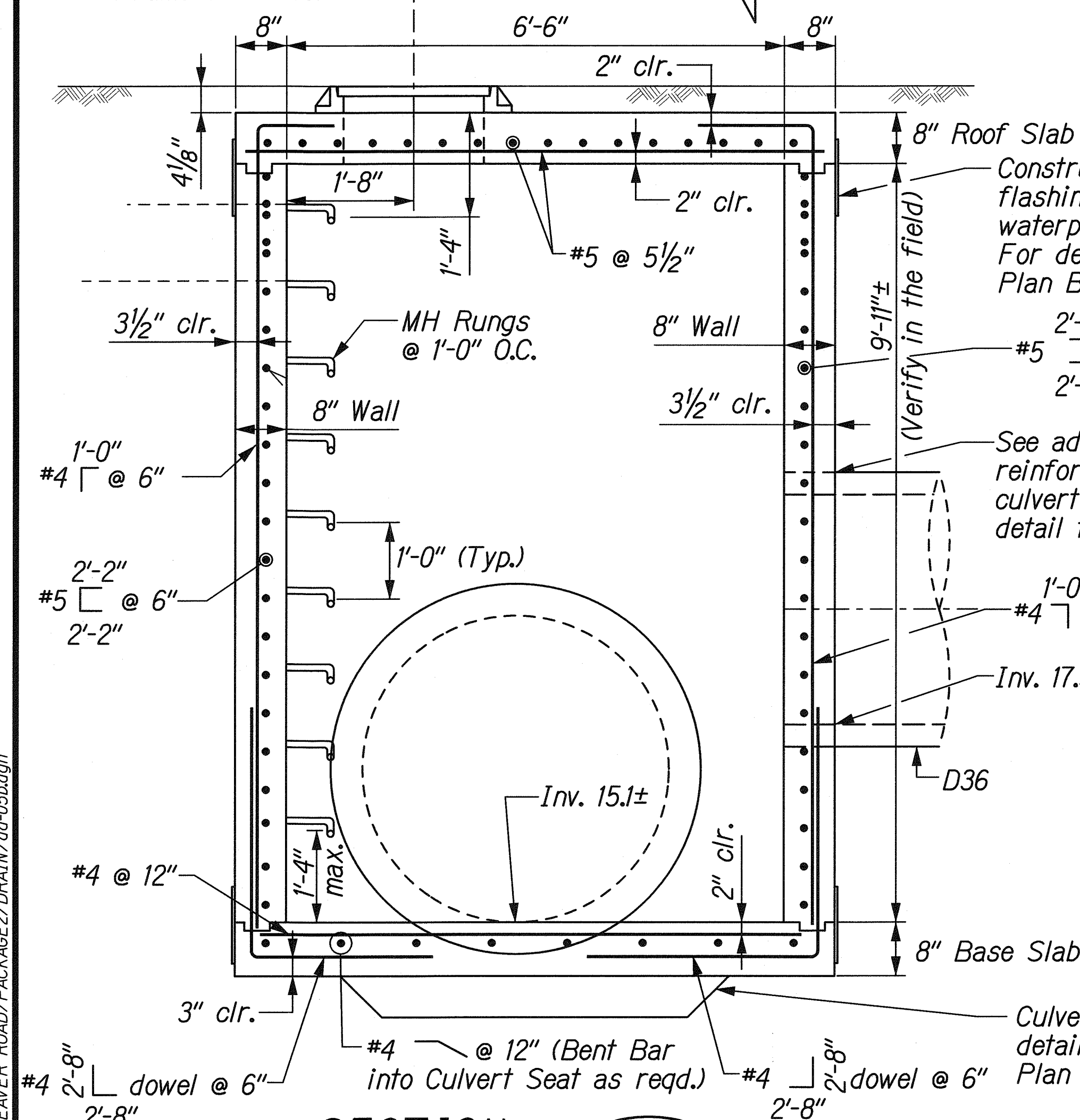
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 143 | 371 |



PLAN

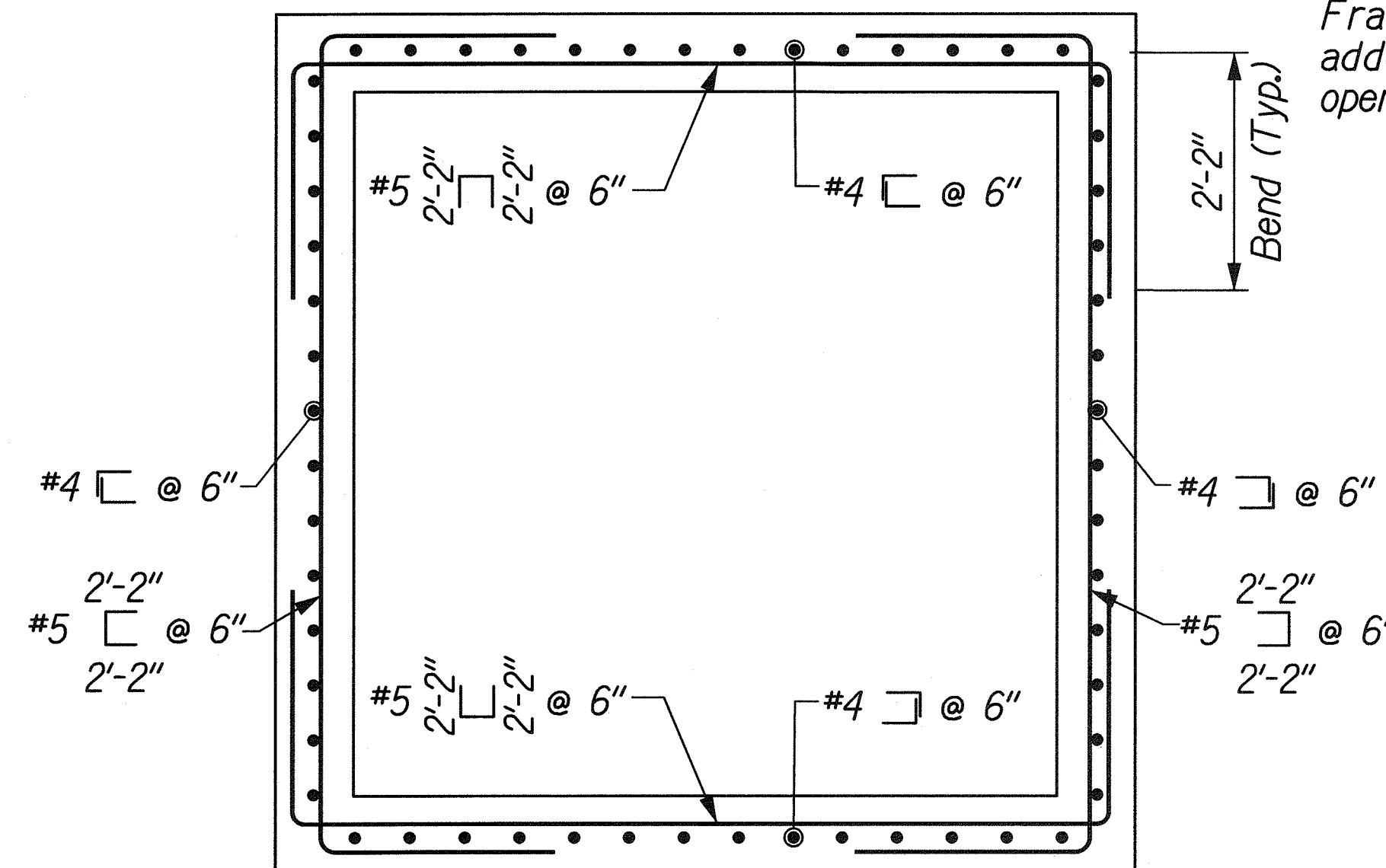
Scale: $\frac{3}{4}$ " = 1'-0"

Type "P" Cast Iron Frame and Cover



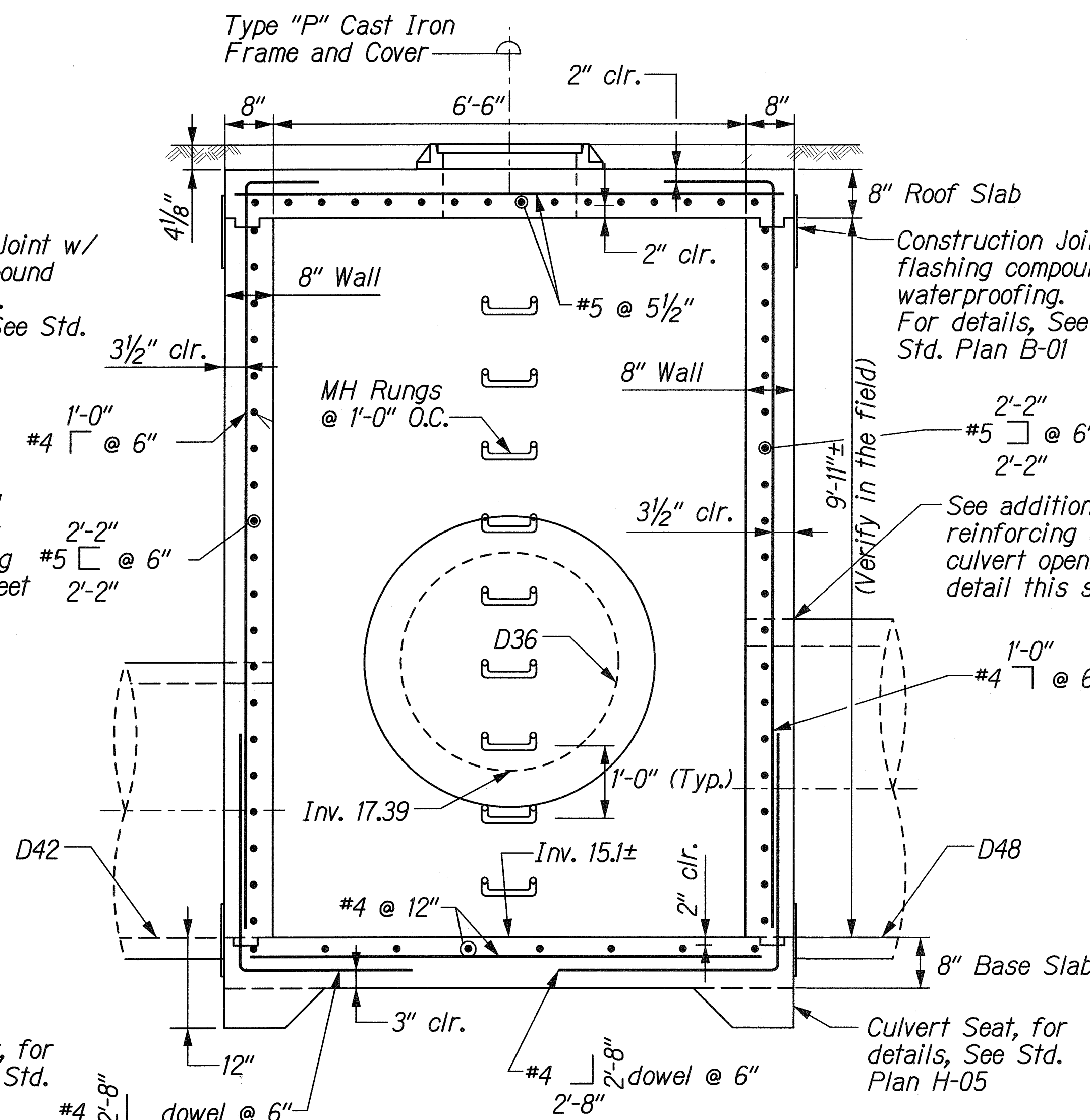
SECTION A

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



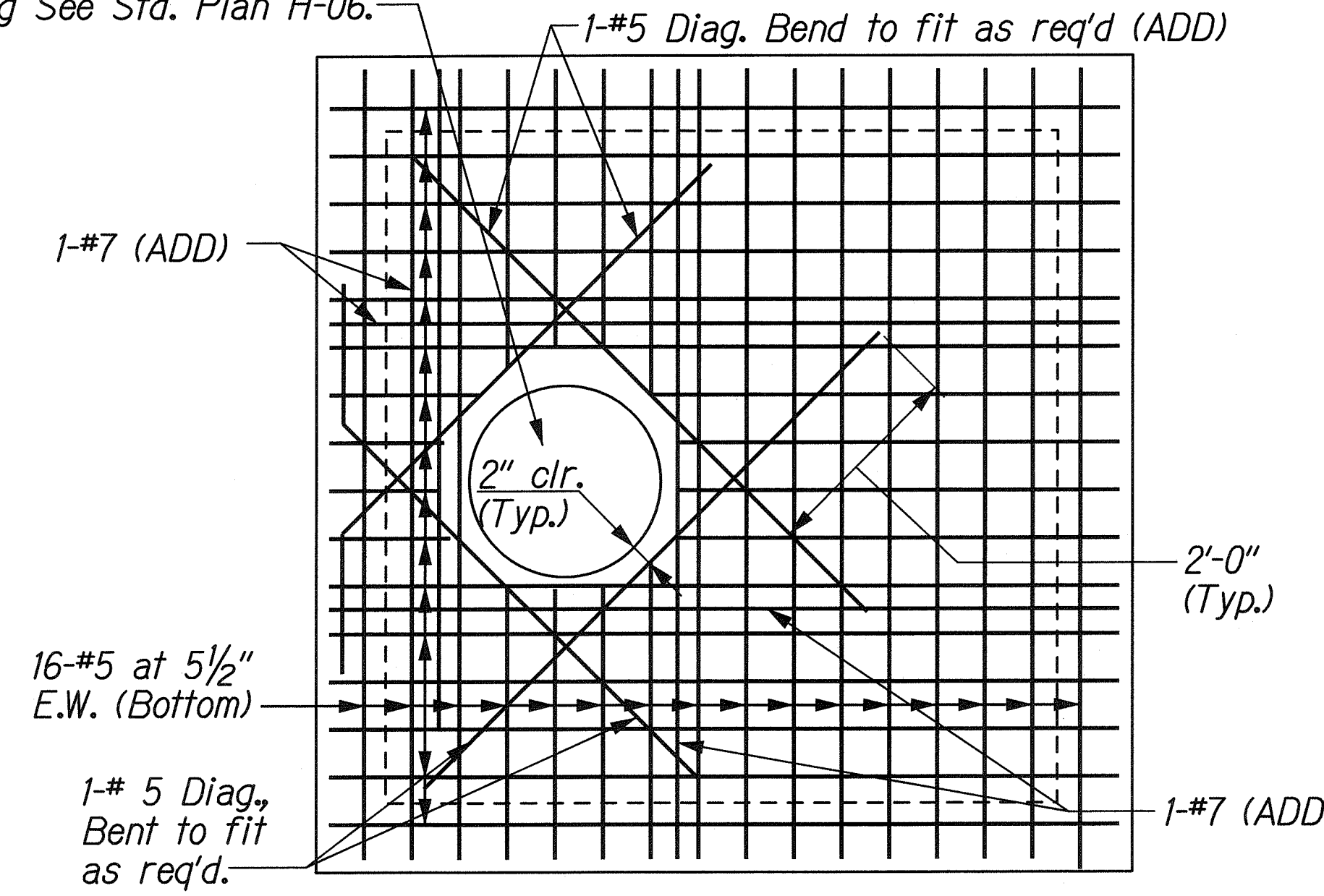
PLAN

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



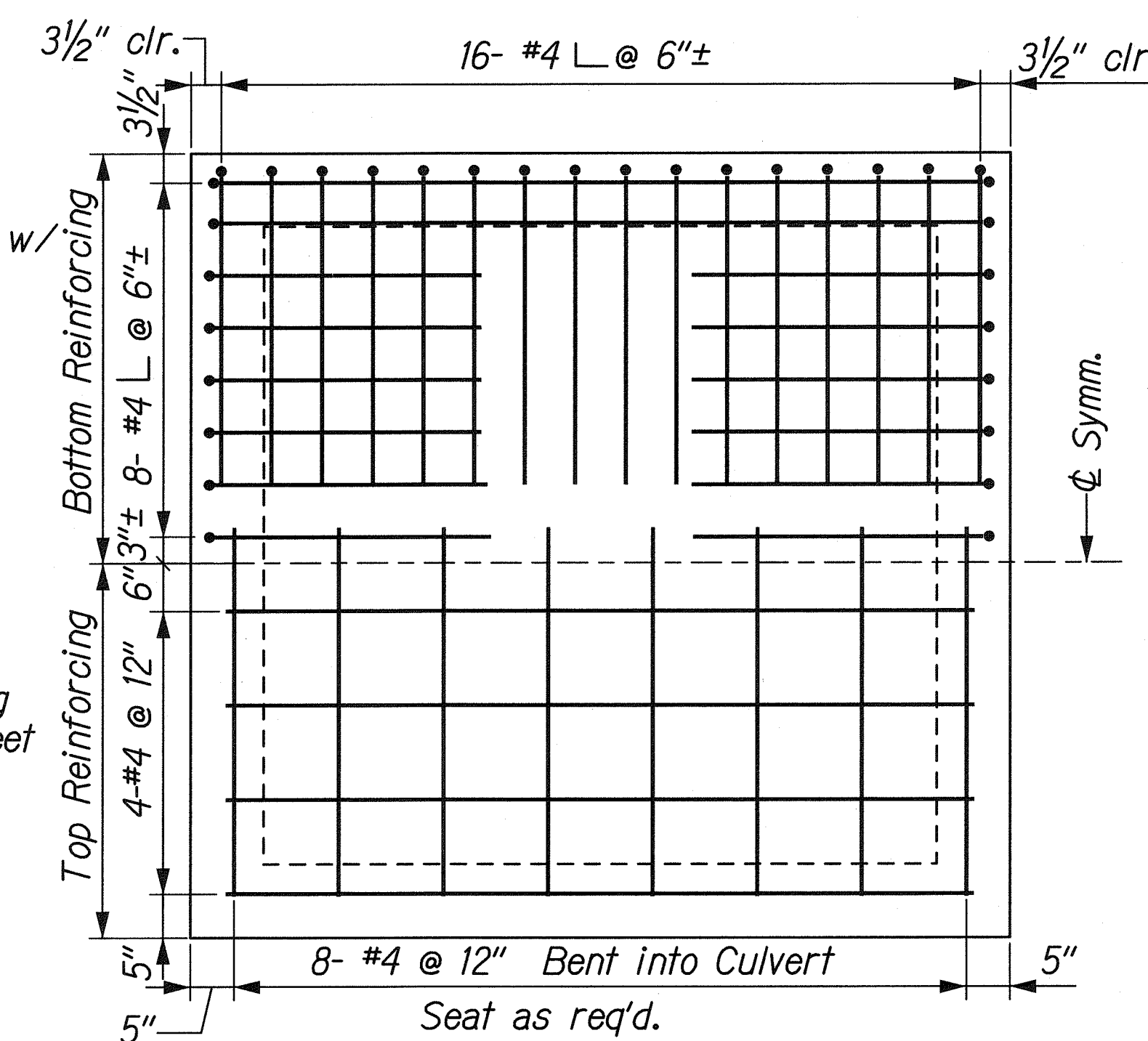
SECTION B

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



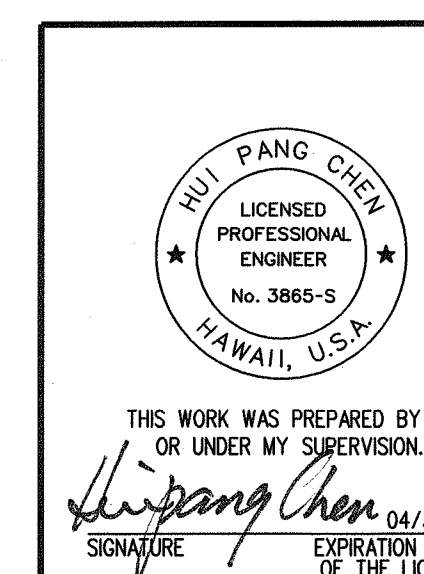
PLAN VIEW OF ROOF SLAB REINF.

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



PLAN VIEW OF BOT. SLAB REINF.

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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

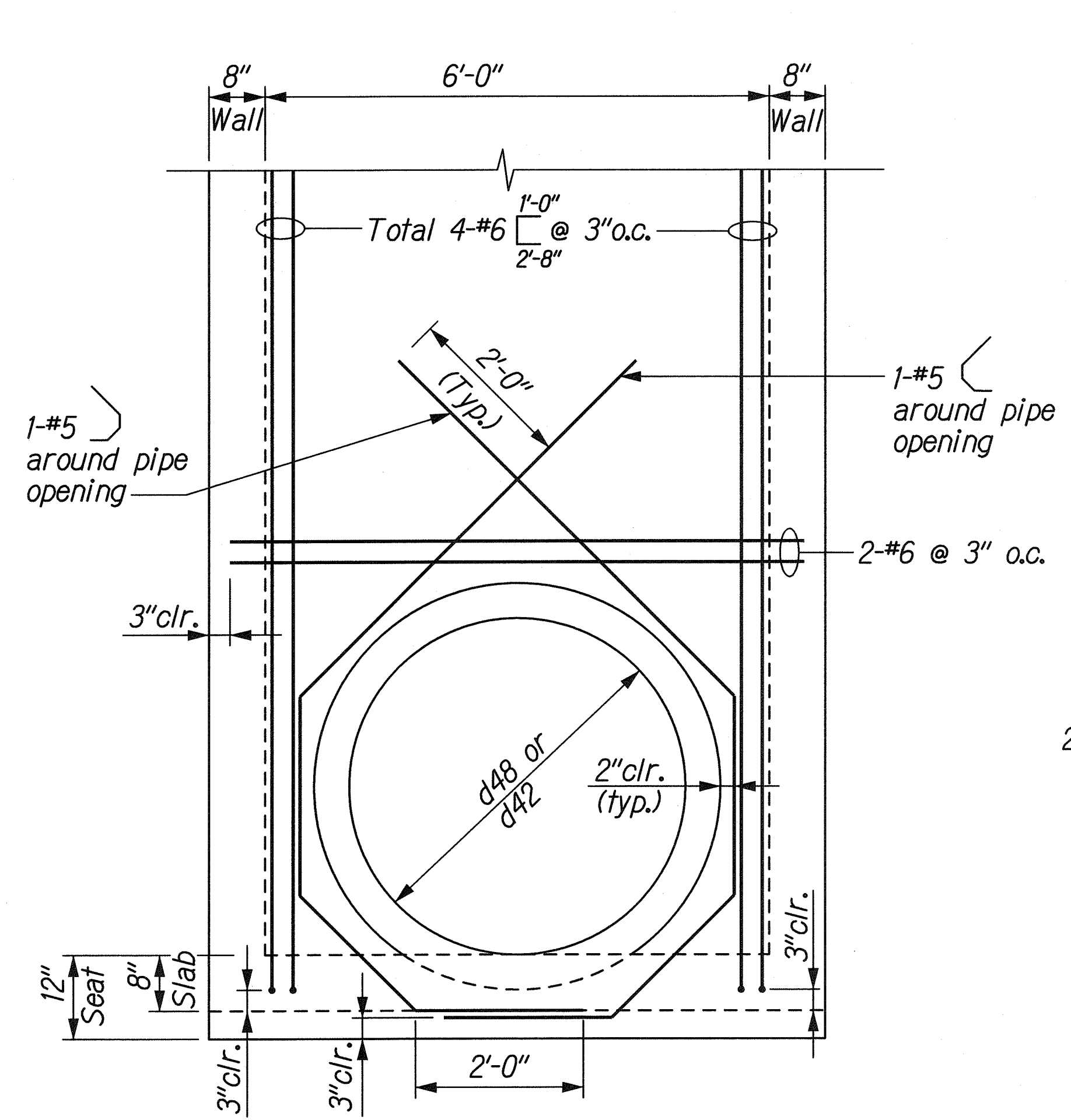
TYPE K SDMH (1 of 2)
@ STA. 158+38.1±

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

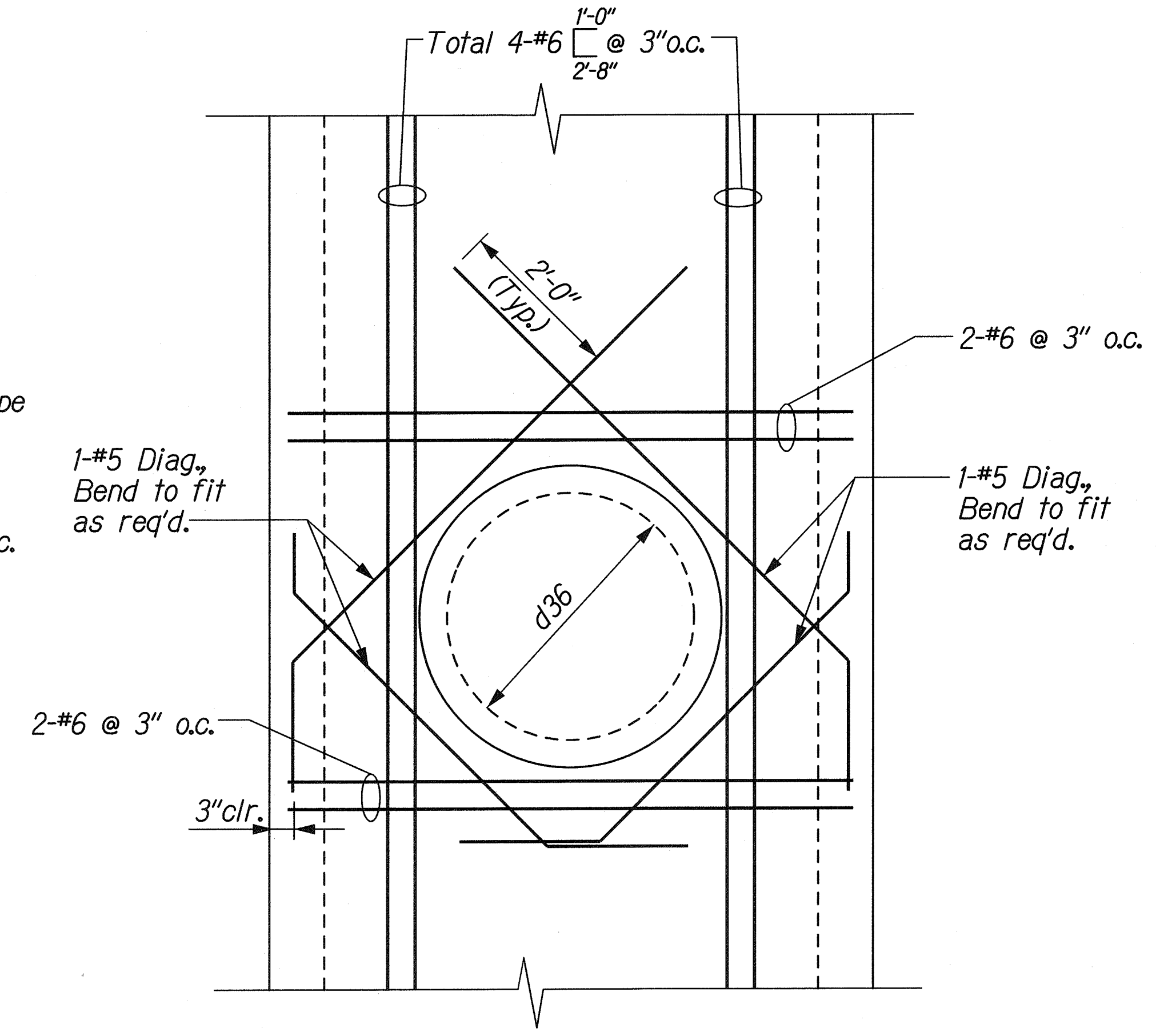
Scale: As Shown Date: Feb. 22, 2008

SHEET No. D2-33 OF 34 SHEETS

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | CMAQ-076-1(9) | 2006 | 144 | 371 |



**ADDITIONAL REINFORCING AT
PIPE OPENING**
Scale: NTS



**ADDITIONAL REINFORCING
FOR PIPE OPENING
(ABOVE BOTTOM SLAB)**
Scale: NTS

| | | |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DESIGNED BY | |
| | CHECKED BY | |
| | QUANTITIES BY | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

16/FORT WEAVER ROAD/PACKAGE2/DRAIN/d-05a.dgn

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPE K SDMH (2 of 2)
@ STA. 158+38.1±

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: As Shown Date: Feb. 22, 2008