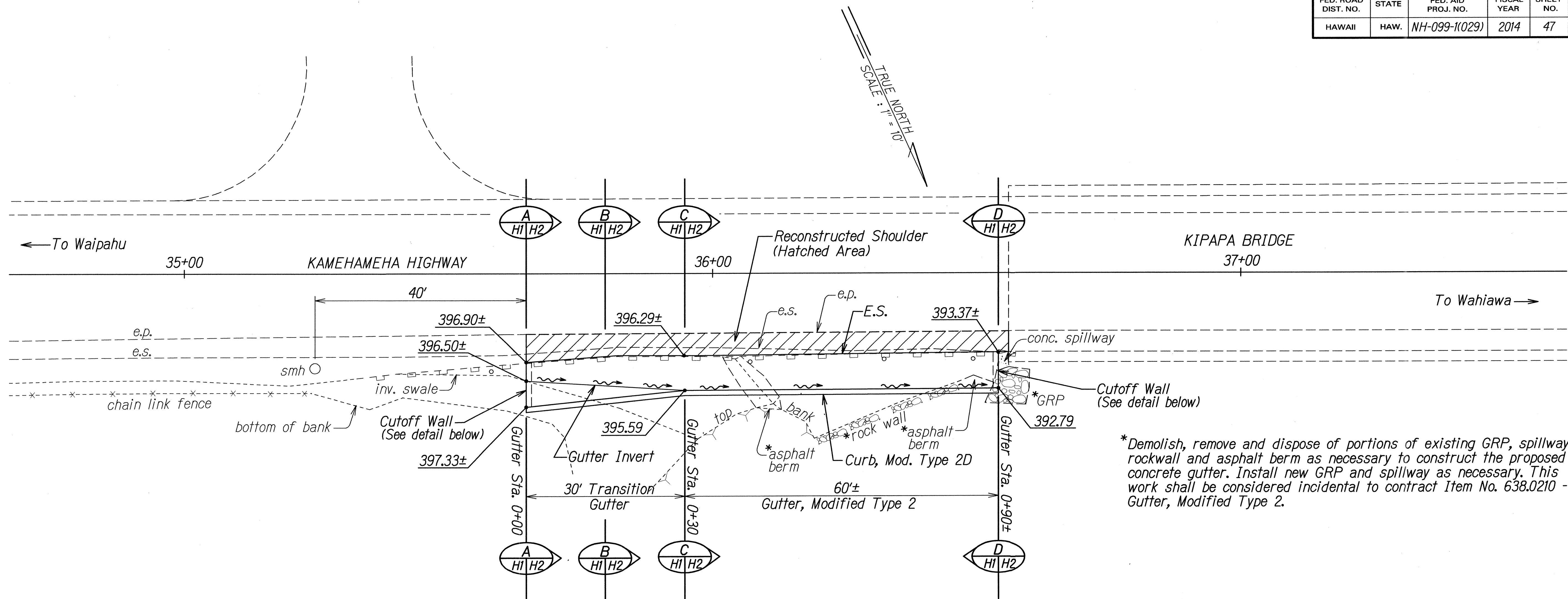
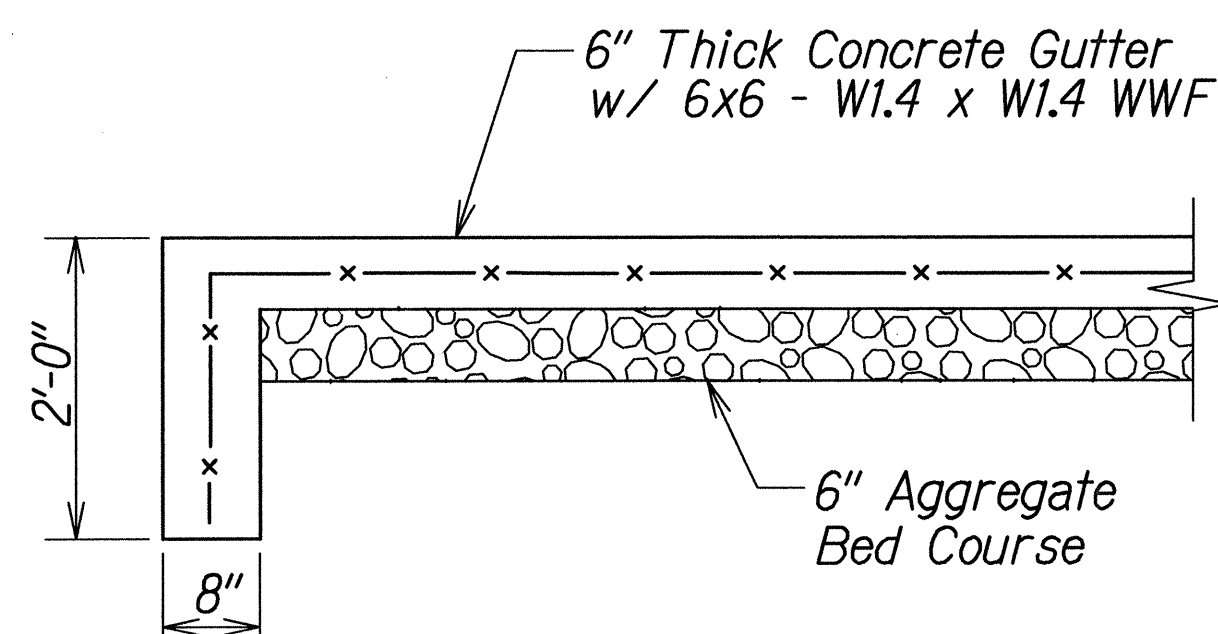


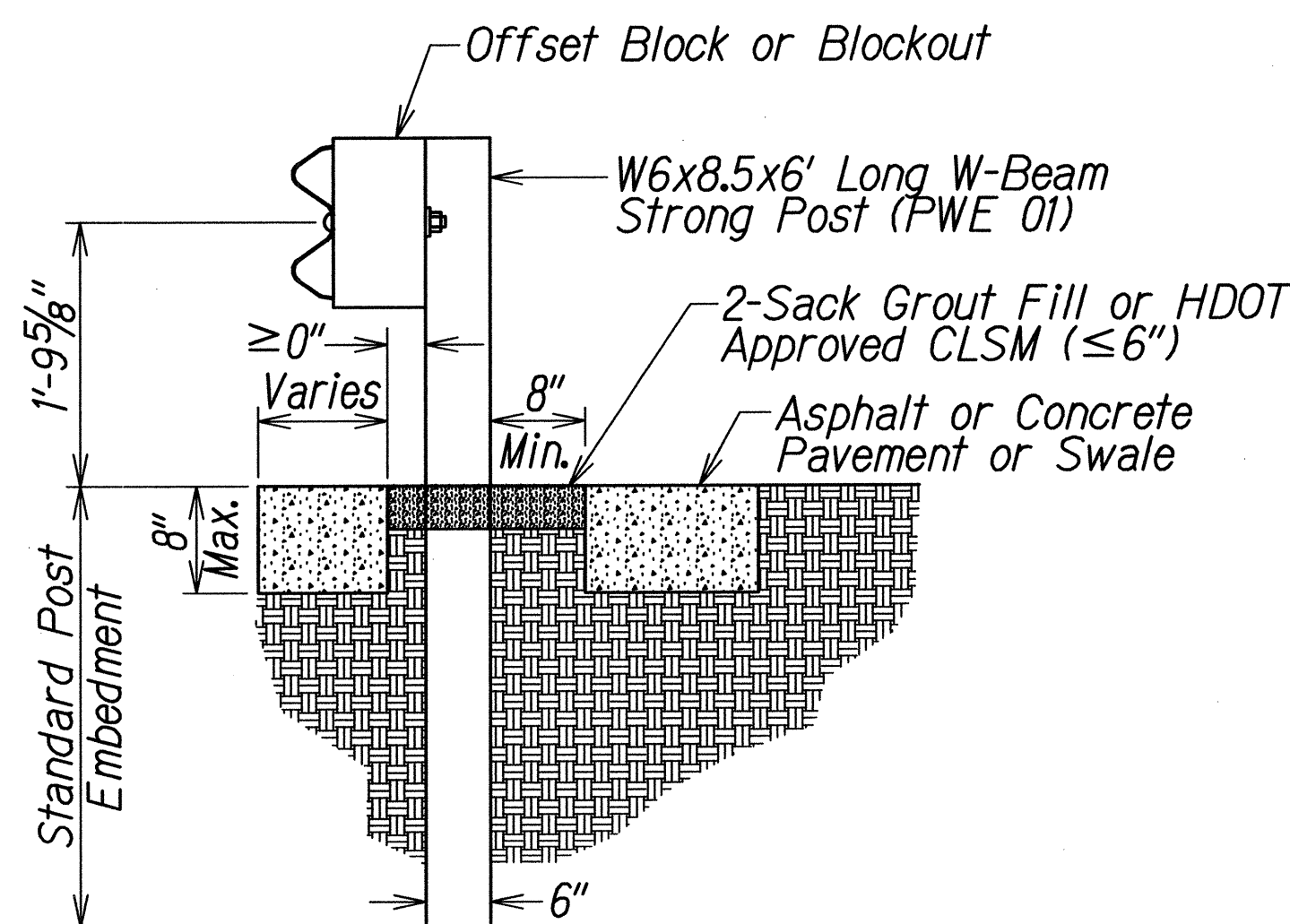
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-099-1(029)	2014	47	84



*Demolish, remove and dispose of portions of existing GRP, spillway, rockwall and asphalt berm as necessary to construct the proposed concrete gutter. Install new GRP and spillway as necessary. This work shall be considered incidental to contract Item No. 638.0210 - Gutter, Modified Type 2.

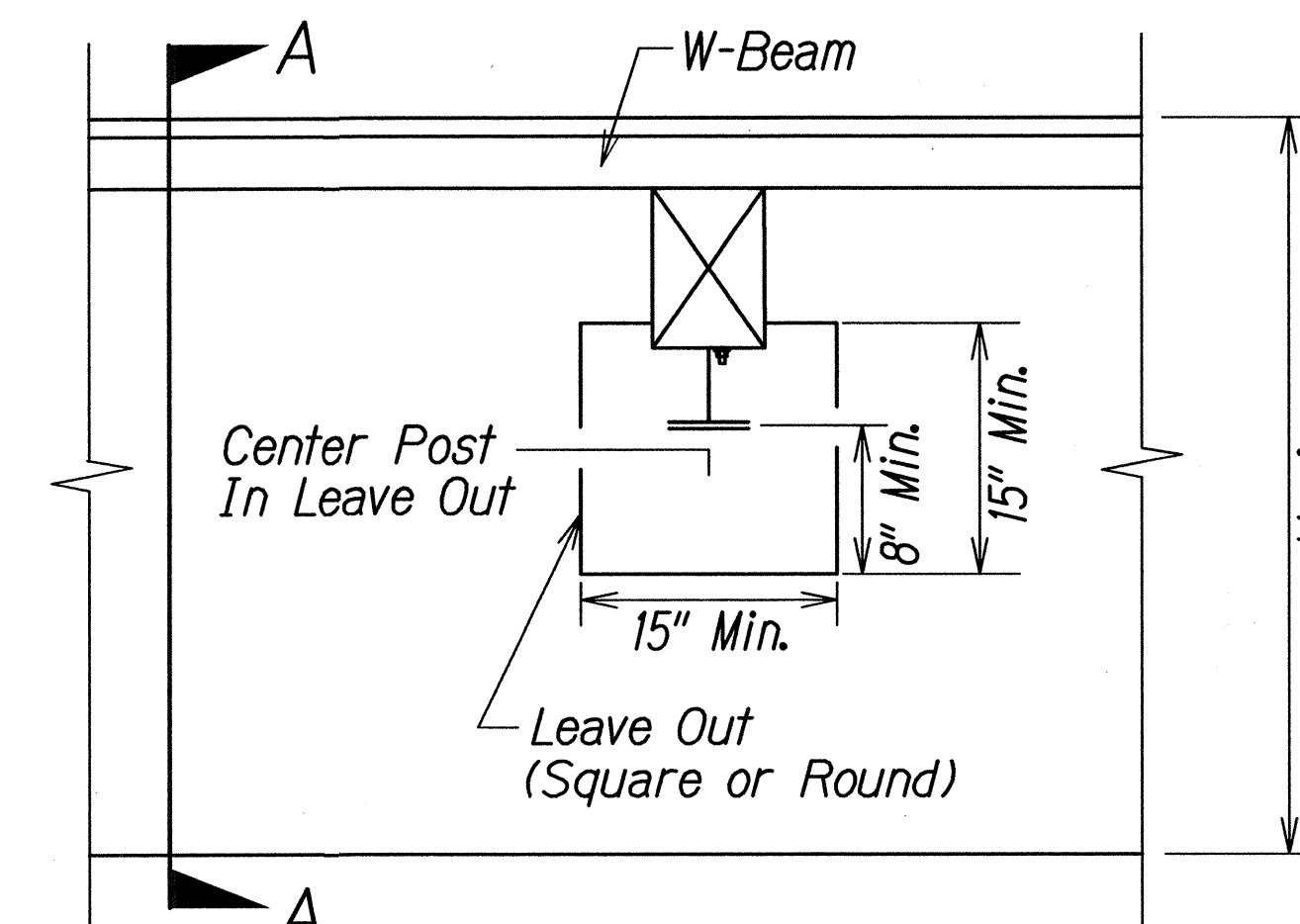


TYPICAL CUTOFF WALL SECTION
Not to Scale



SECTION A-A

GUARDRAIL POST IN PAVEMENT OR DRAINAGE SWALE
Not to Scale



STEEL POST DETAIL

NOTE:

1. Grout fill or HDOT-approved CLSM shall not be paid for separately but shall be considered incidental to the various contract items.

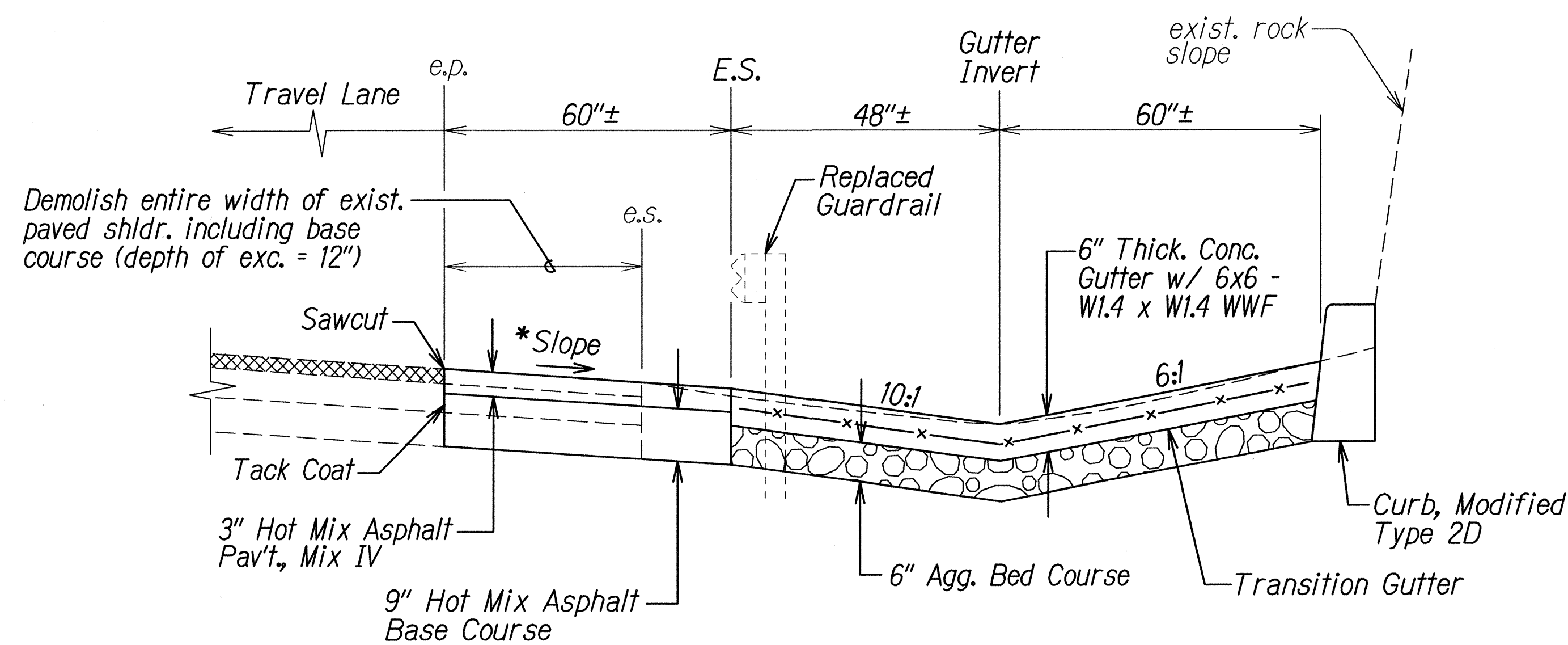
ORIGINAL PLAN	DATE	3/13/13
DRAWN BY		
DESIGNED BY		
CHECKED BY		
APPROVED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

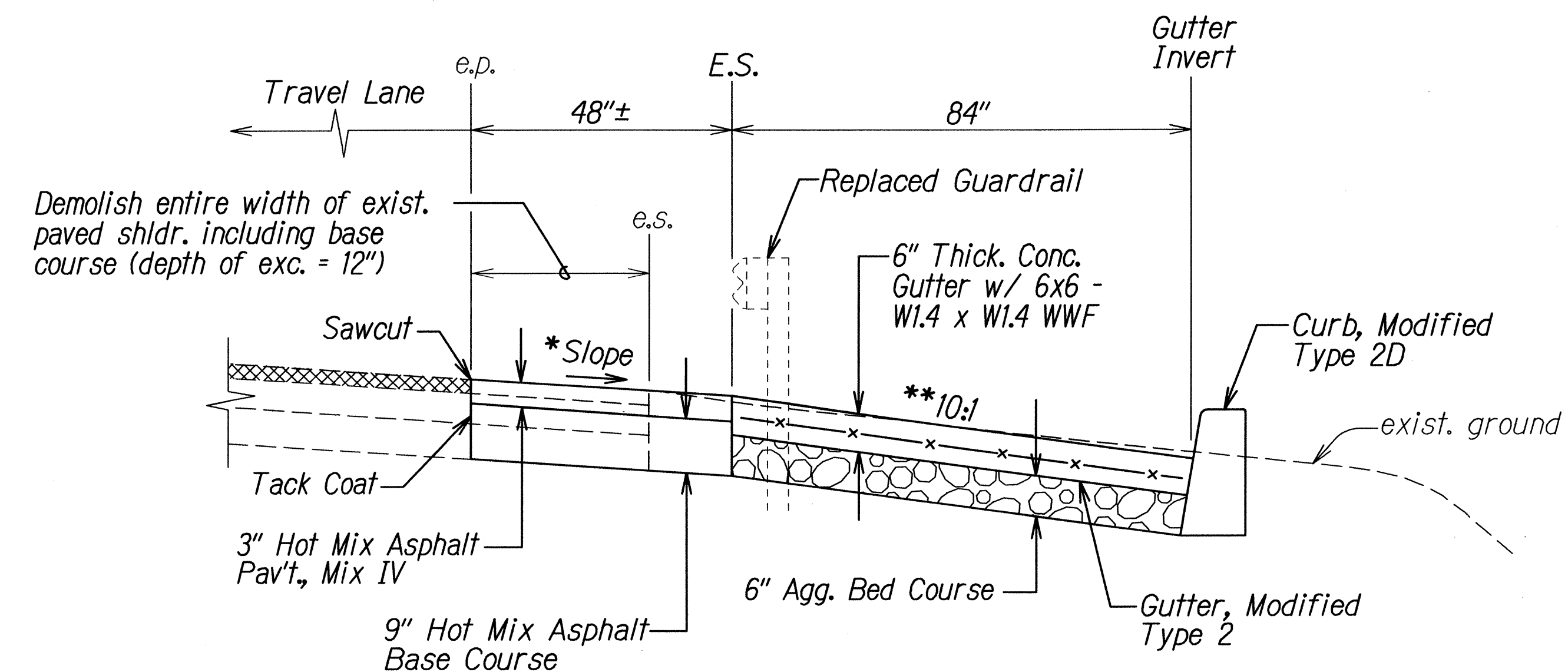
DRAINAGE PLAN & DETAILS
KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal-Aid Project No. NH-099-1(029)

Scale : 1" = 10' Date: December, 2013

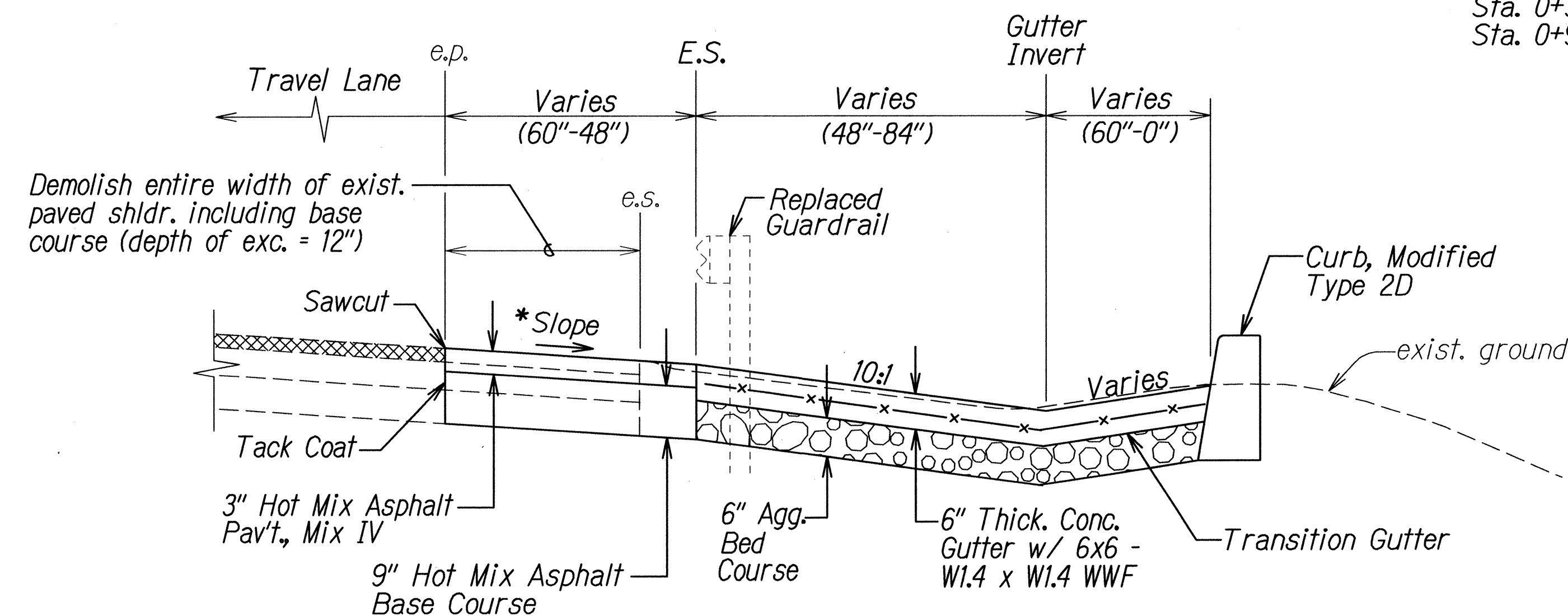
SHEET No. **H1** OF **4** SHEETS



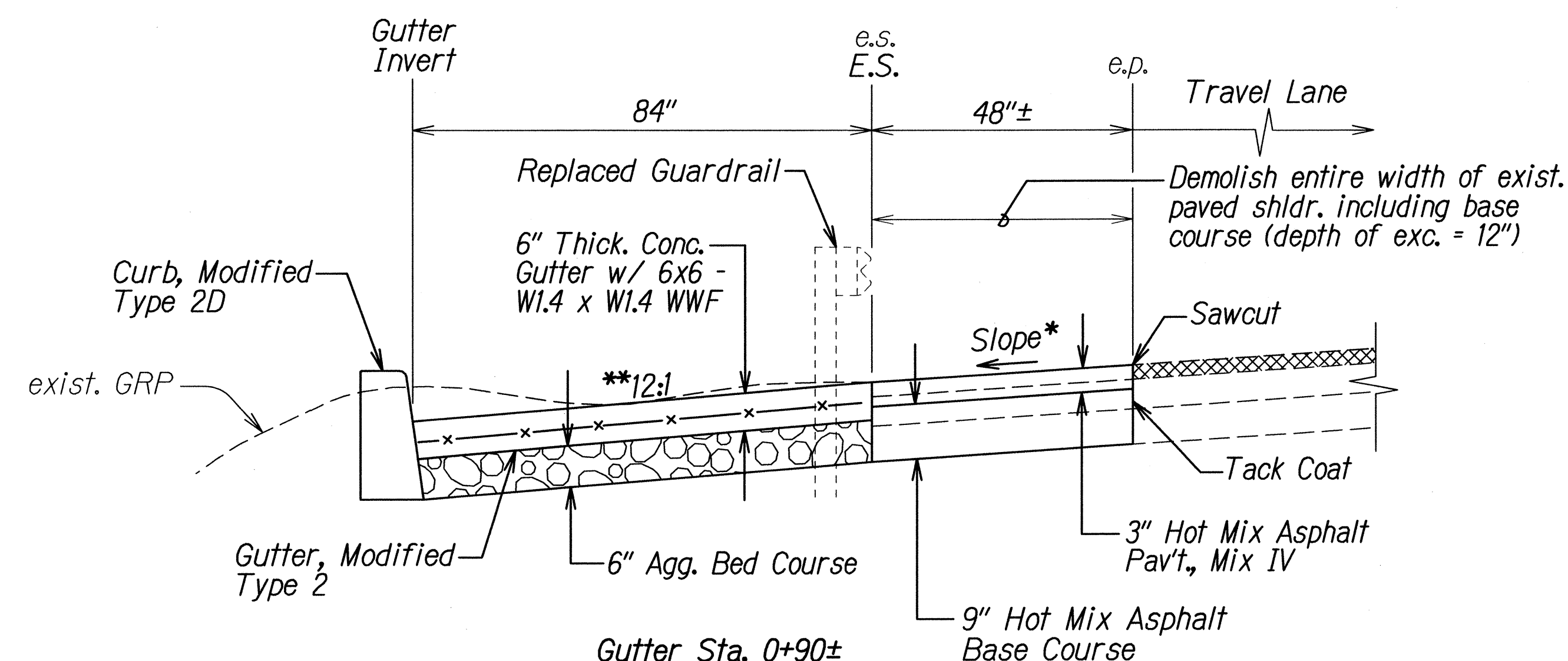
Gutter Sta. 0+00
SECTION A
HI H2



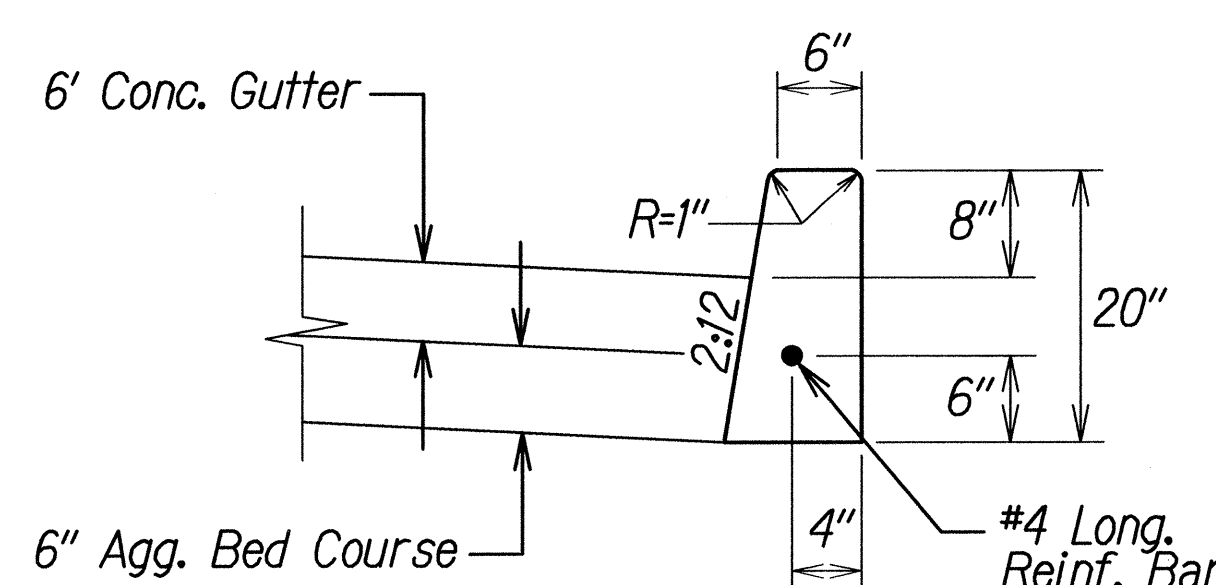
Gutter Sta. 0+30
SECTION C
HI H2



Gutter Sta. 0+00 to Sta. 0+30
SECTION B
HI H2



Gutter Sta. 0+90±
SECTION D
HI H2



CURB, MODIFIED TYPE 2D

NOTES:

1. Demolish, remove and dispose of portions of existing asphalt concrete berm, rockwall, grouted rubble paving, spillway and all obstructions as necessary to construct the proposed concrete gutter. This work shall be considered incidental to contract Item No. 638.0210 - Gutter, Modified Type 2.
2. Excavation and aggregate bed course material for concrete gutter shall be considered incidental to contract Item No. 638.0210 - Gutter, Modified Type 2.
3. All transition gutters shall be paid for under contract Item No. 638.0210 - Gutter, Modified Type 2.
4. Excavation for new paved shoulders shall be paid for under contract Item No. 203.0100 - Roadway Excavation.
5. The maximum depth of exposed back of the new concrete curb shall be 8 inches. If the depth of the exposed back of the curb is greater than 8 inches, grade and dress the back of the curb. This work shall be considered incidental to contract Item No. 638.0110 - Curb, Modified Type 2D.

1/17/14 Deleted Note #2 and renumbered the notes accordingly.

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

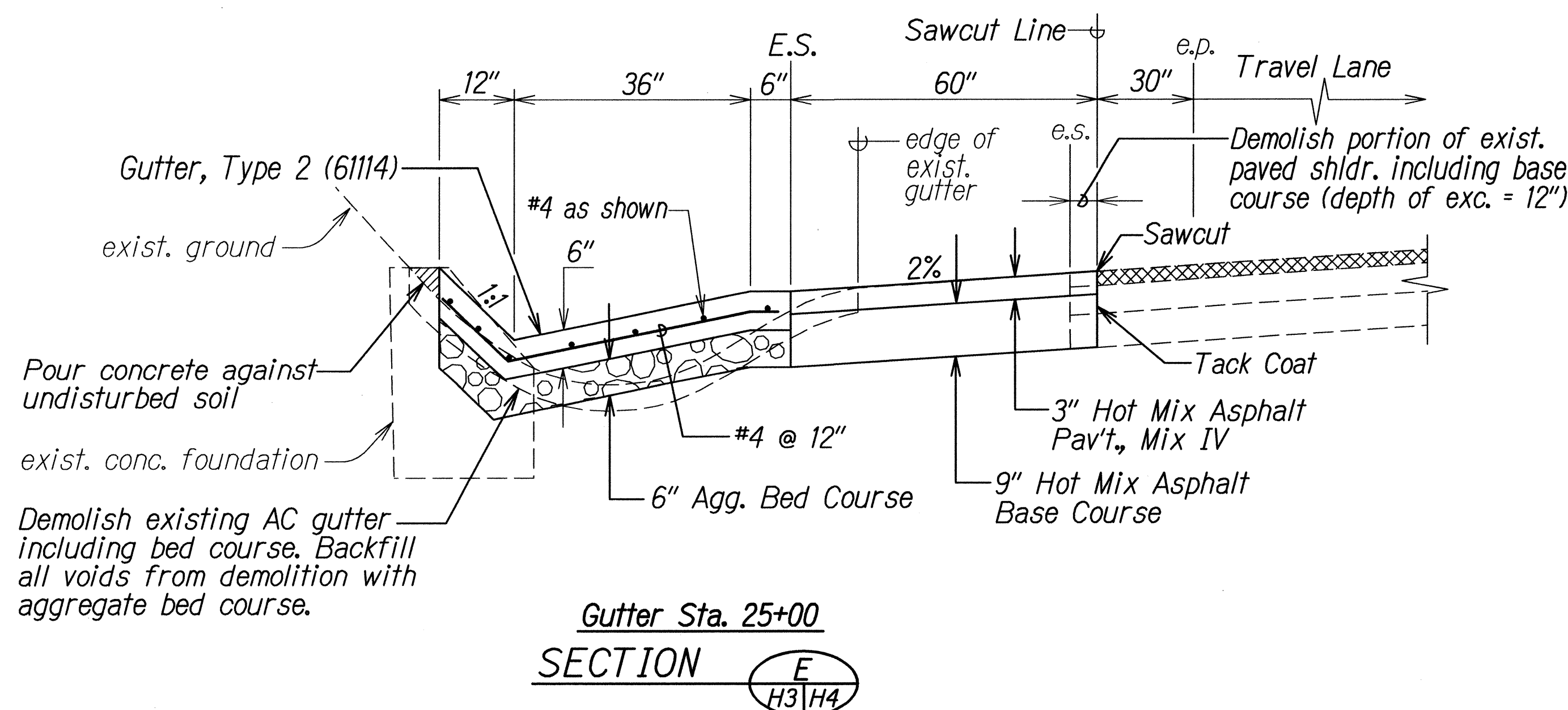
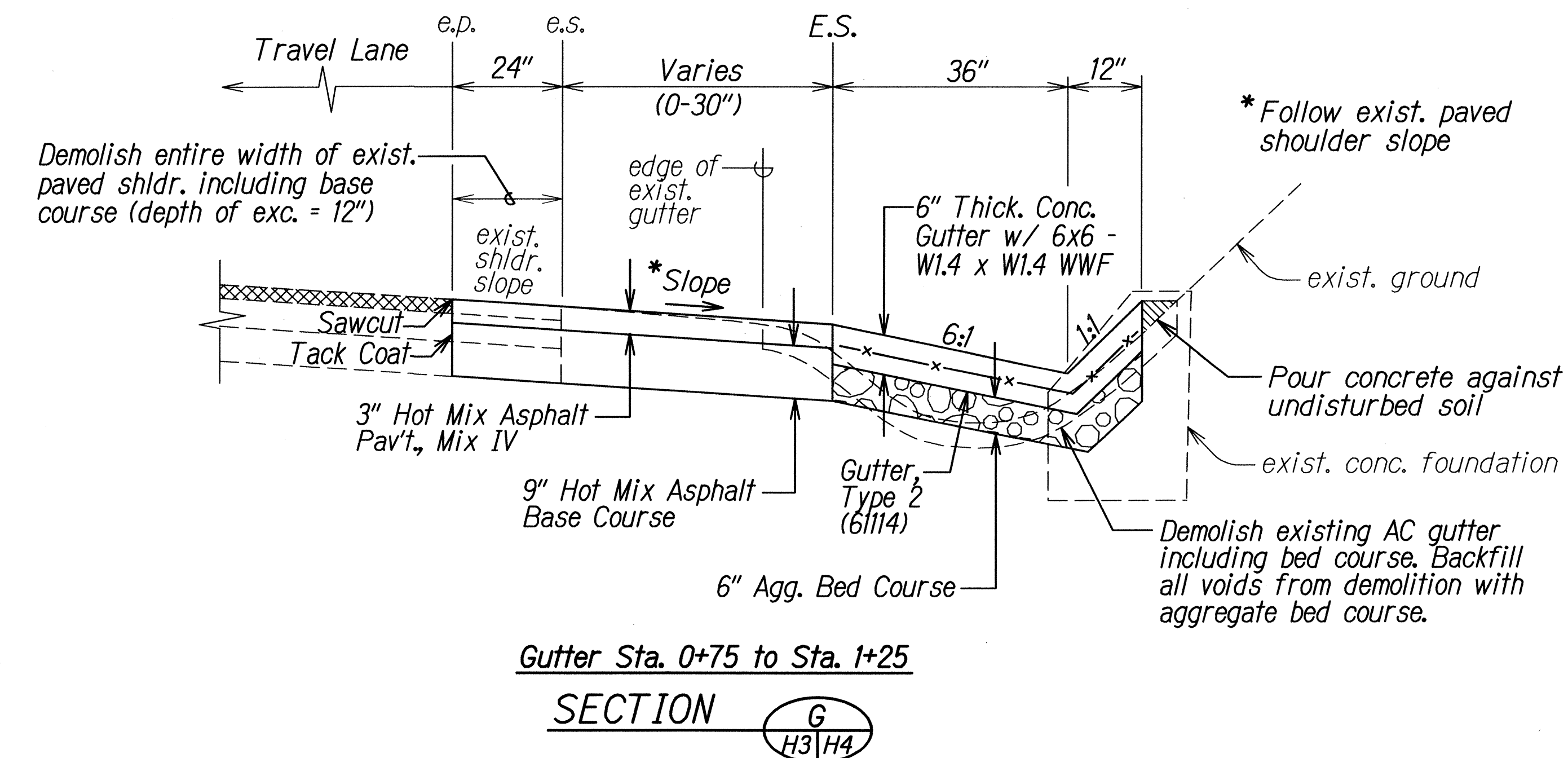
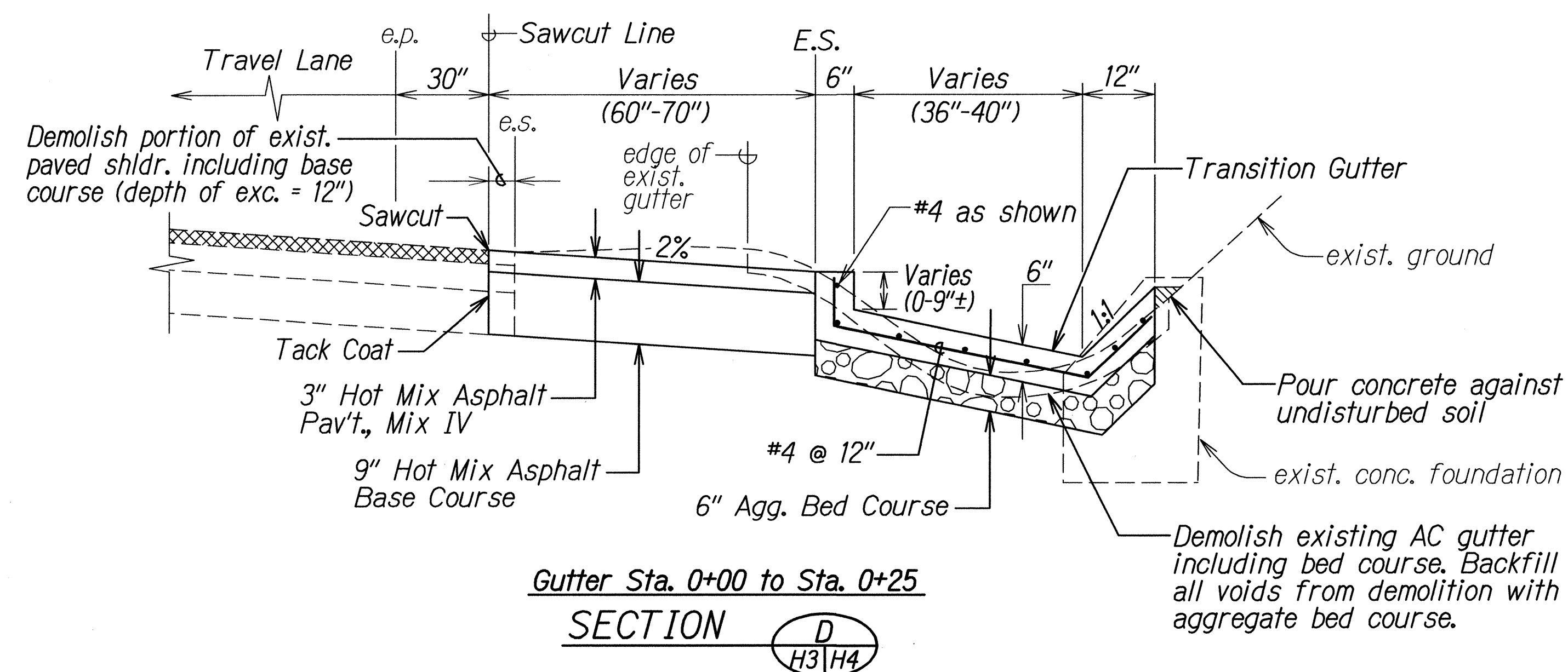
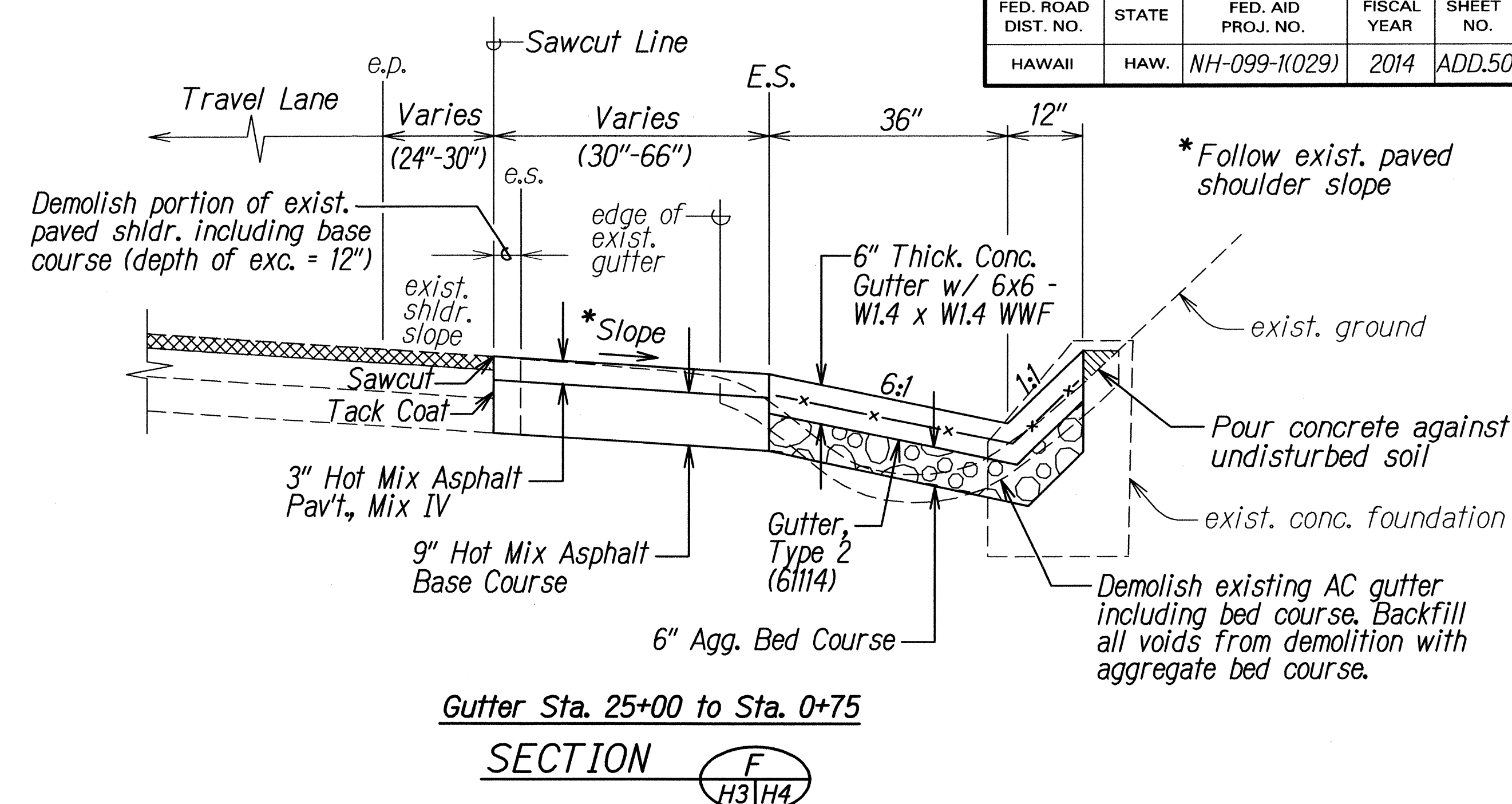
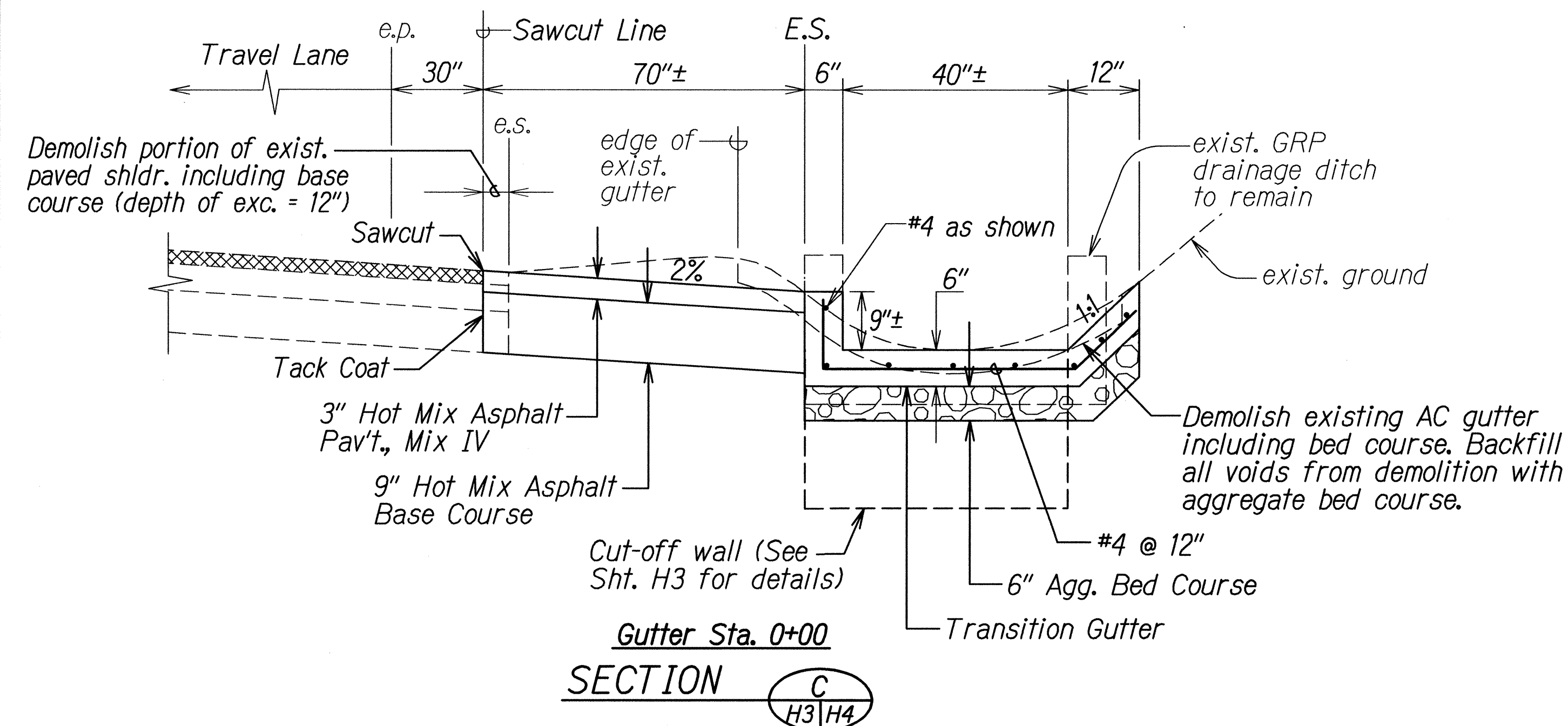
KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal-Aid Project No. NH-099-1(029)

Not to Scale Date: December, 2013

SHEET No. H2 OF 4 SHEETS

ADD. 48

DESIGNED BY	DATE
TRACED BY	2/22/13
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	



NOTES: 1

- Existing concrete foundation for the chain link fence shall not be demolished.
- Top of exist. concrete foundation shall not be covered with concrete or asphalt.
- Demolishing, removing and disposing of existing gutter and backfilling the voids with bed course material, and pouring concrete against undisturbed soil, shall be considered incidental to contract Item No. 638.0200 - Gutter, Type 2 (61114).
- Excavation and aggregate bed course material for concrete gutter shall be considered incidental to contract Item No. 638.0200 - Gutter, Type 2 (61114).
- All transition gutters shall be paid for under contract Item No. 638.0200 - Gutter, Type 2 (61114).
- Excavation for new paved shoulders shall be paid for under contract Item No. 203.0100 - Roadway Excavation.

DATE	REVISION
1/17/14	Deleted Note #7.
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAINAGE DETAILS	
KAMEHAMEHA HIGHWAY RESURFACING Vicinity of Ka Uka Boulevard to Vicinity of Waihau Street Federal-Aid Project No. NH-099-1(029)	
Not to Scale	Date: December, 2013
SHEET No. H4 OF 4 SHEETS	