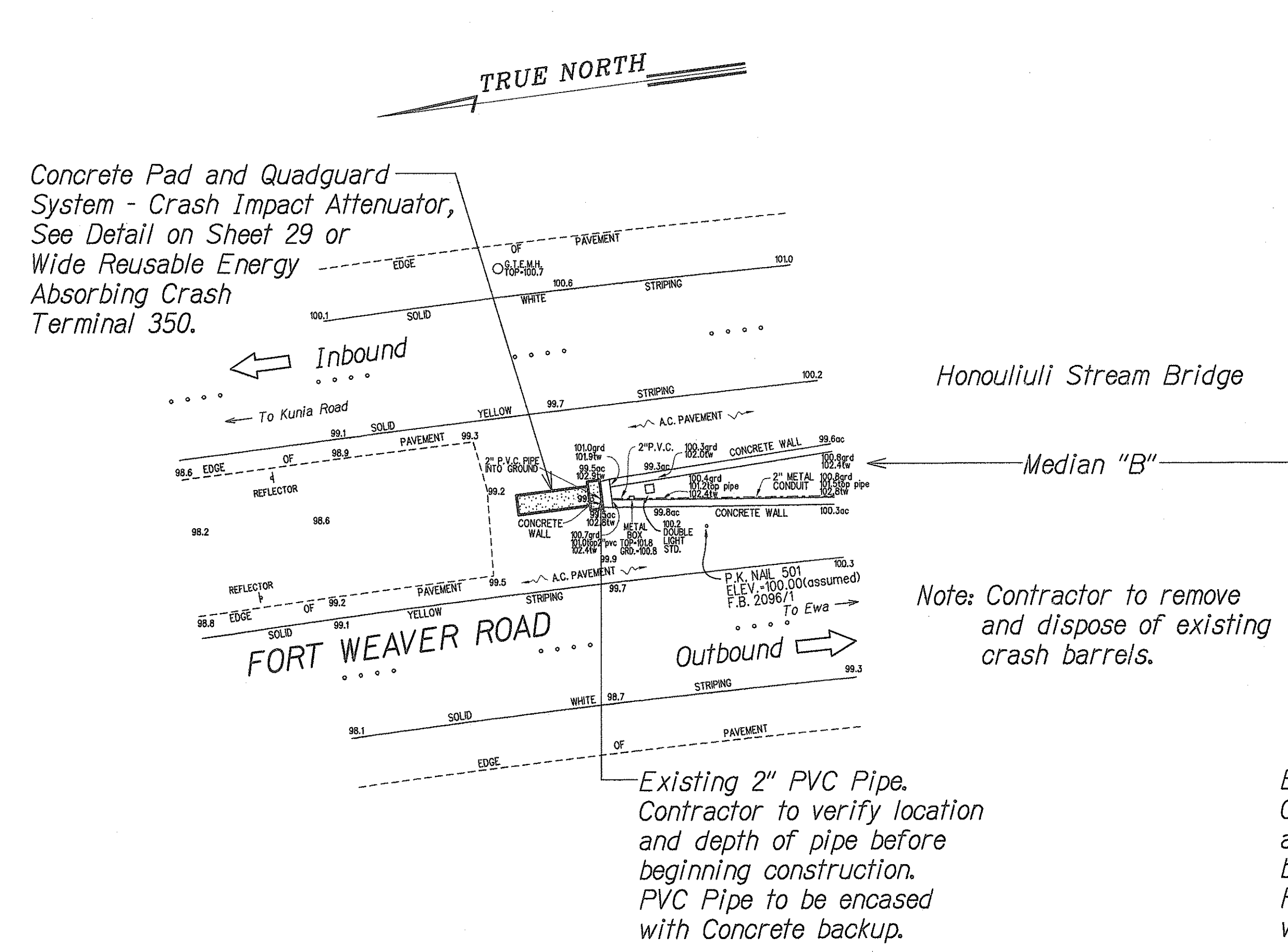
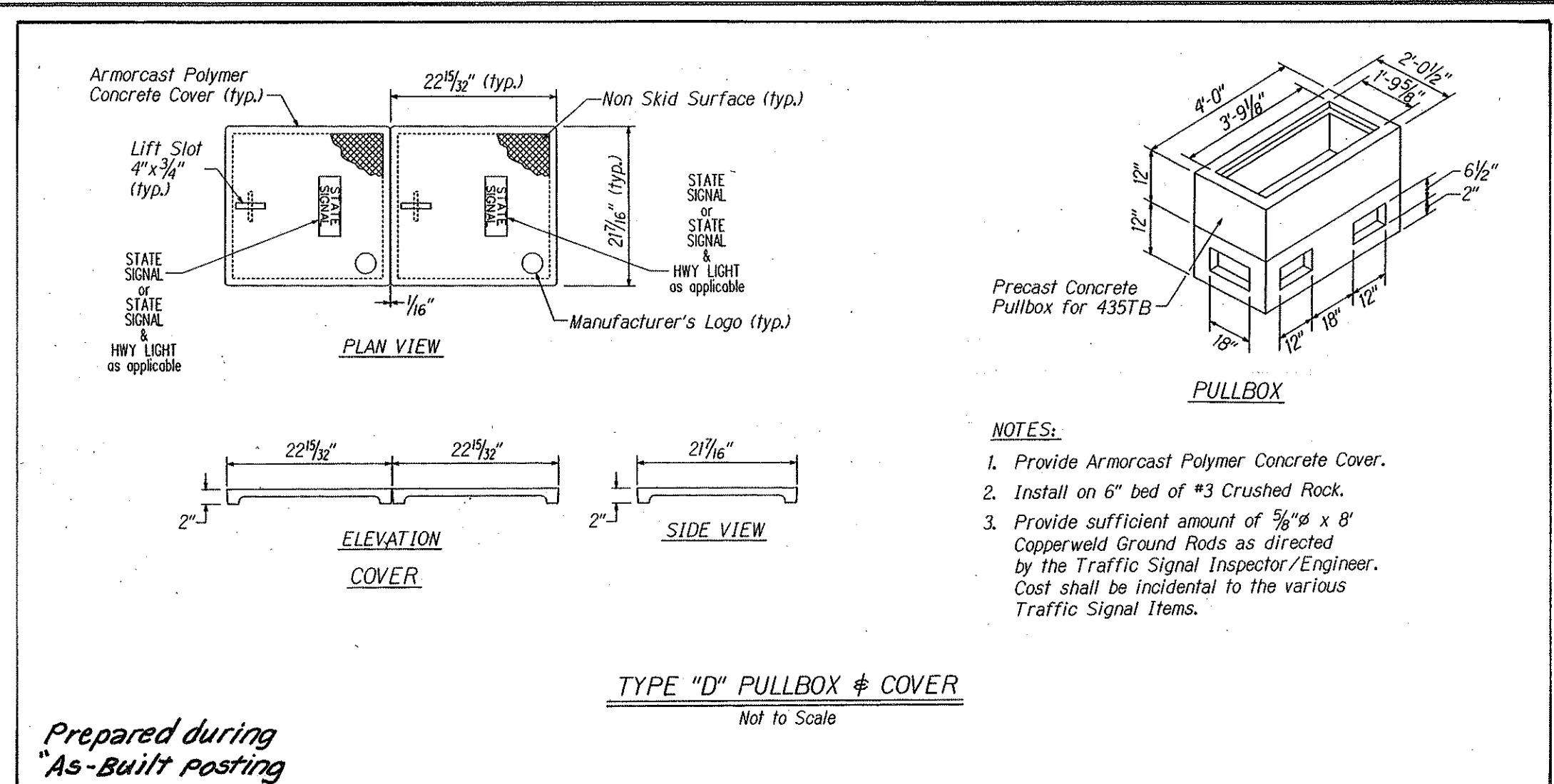
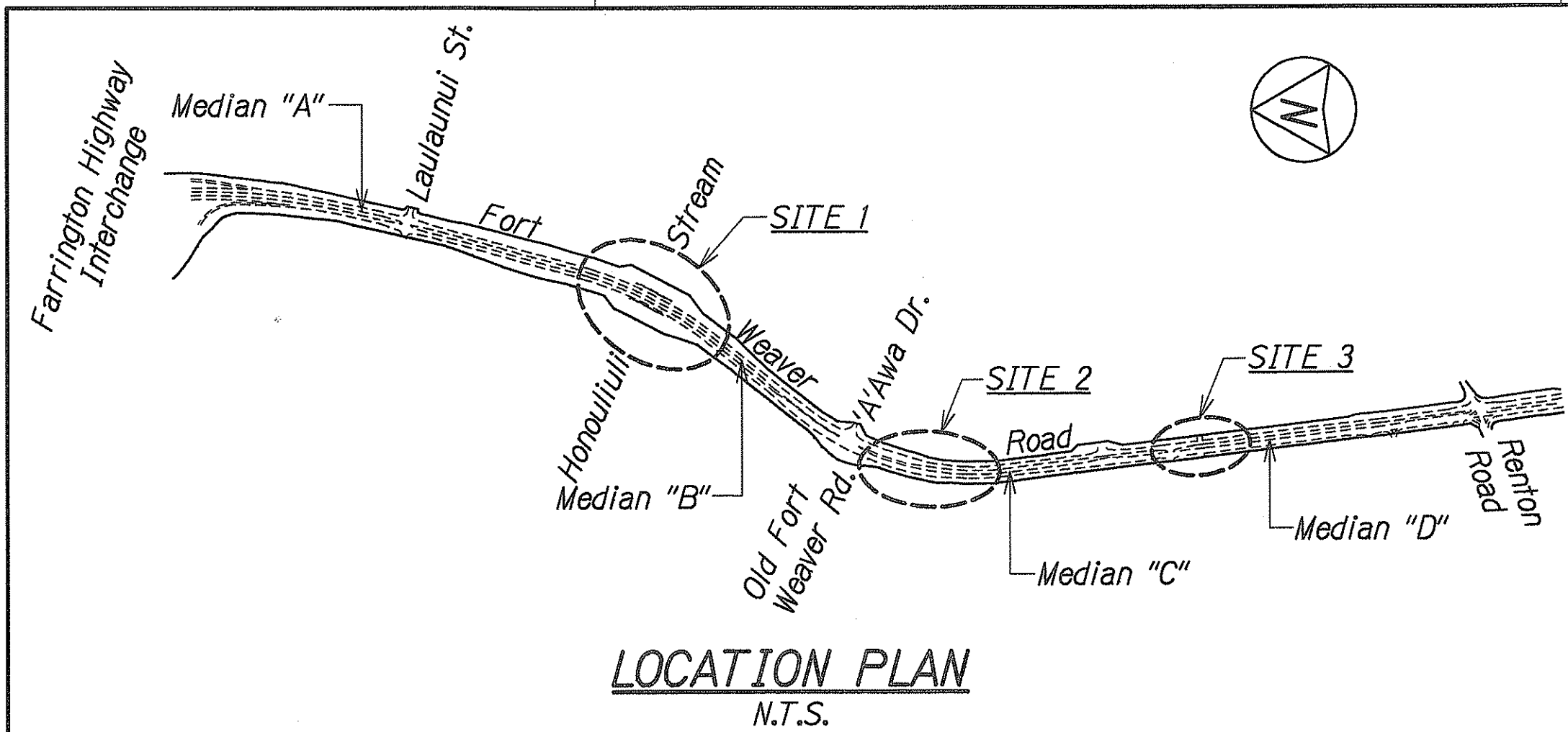


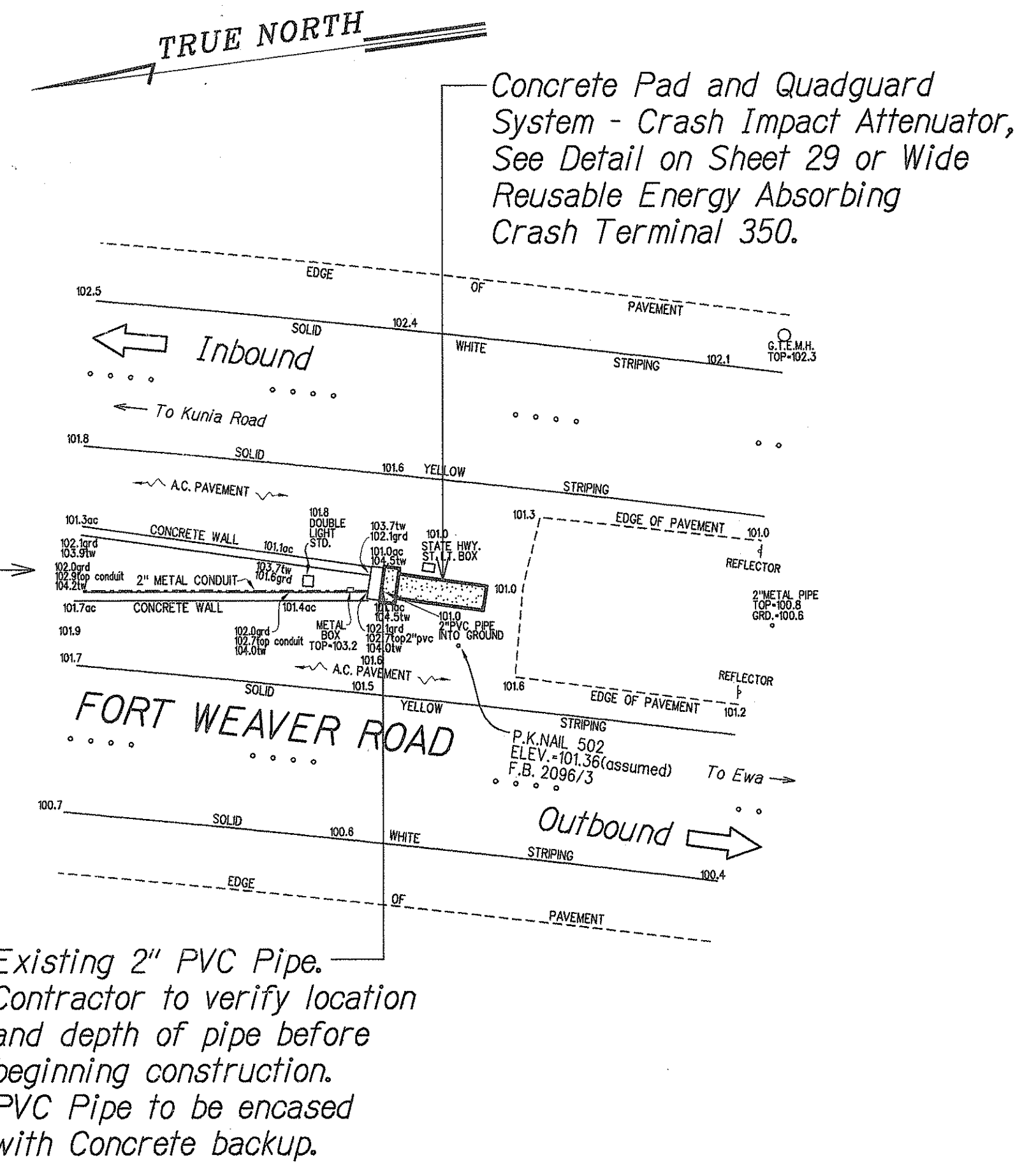
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-076-1(4)	1999	27	31

Notes

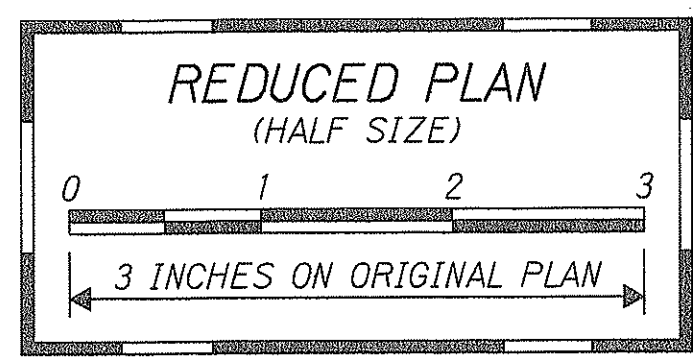
- 1- The Contractor shall perform all applicable construction work in accordance with the "Standard Specifications for Road, Bridge, and Public Works Construction", dated 1994, as amended, of the Highways Division, Department of Transportation, State of Hawaii.
- 2- Location of underground utilities and pipes shown on the plans are approximate only. The Contractor shall verify the exact location of the existing utilities and shall be responsible for any damages to them. Any portion of the existing utilities that must be removed or otherwise disturbed to accomplish the work called for on the plans shall be reconstructed, replaced or restored to the original condition at the Contractor's expense.
- 3- The Contractor shall be responsible for the cleaning and removal of all silt and debris generated by his work and deposited and accumulated within downstream waterways, ditches and drain pipes and on public and private roadways.
- 4- The Contractor shall observe and comply with all Federal, State and local laws required for the protection of public health and safety and environmental quality.
- 5- Contractor to maintain existing drainage flow pattern.
- 6- Foundations for Reusable Energy Absorbing Crash Terminal 350 shall be as recommended by manufacturer.



PLAN - SITE 1 (MAUKA) @ Sta. 128+20±
Scale: 1"= 20'



PLAN - SITE 1 (MAKAI) @ Sta. 134+40±
Scale: 1"= 20'



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Derrick C. Elfrink
dca PARK ENGINEERING

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

10/2/98	Add alternate "or Wide Reusable Energy Absorbing Crash Terminal 350."
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

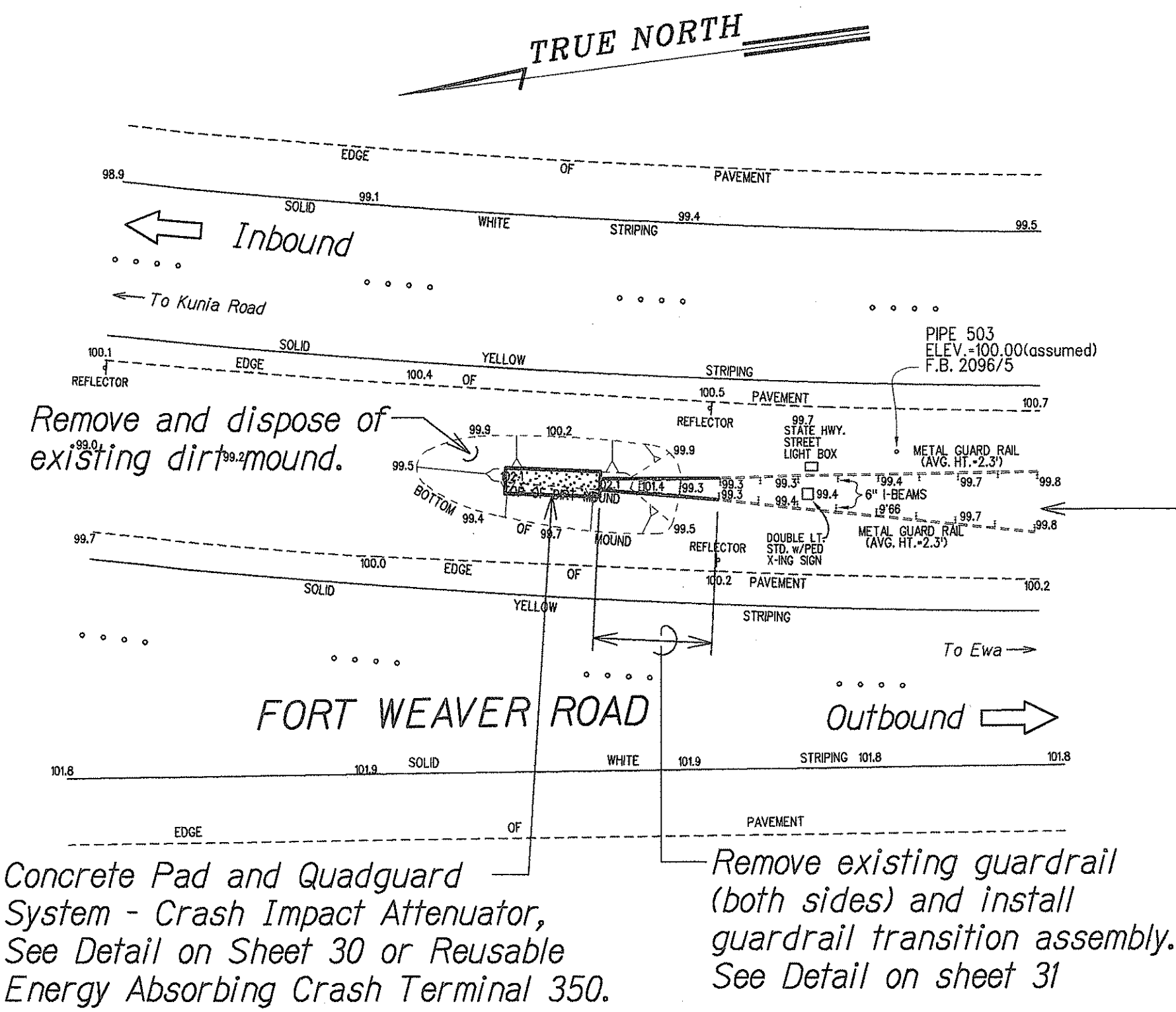
CRASH CUSHION
PLAN - SITE 1

FORT WEAVER ROAD LANDSCAPING
Vicinity of Farrington Highway to Hanakahi Street
PROJECT NO. STP-076-1(4)

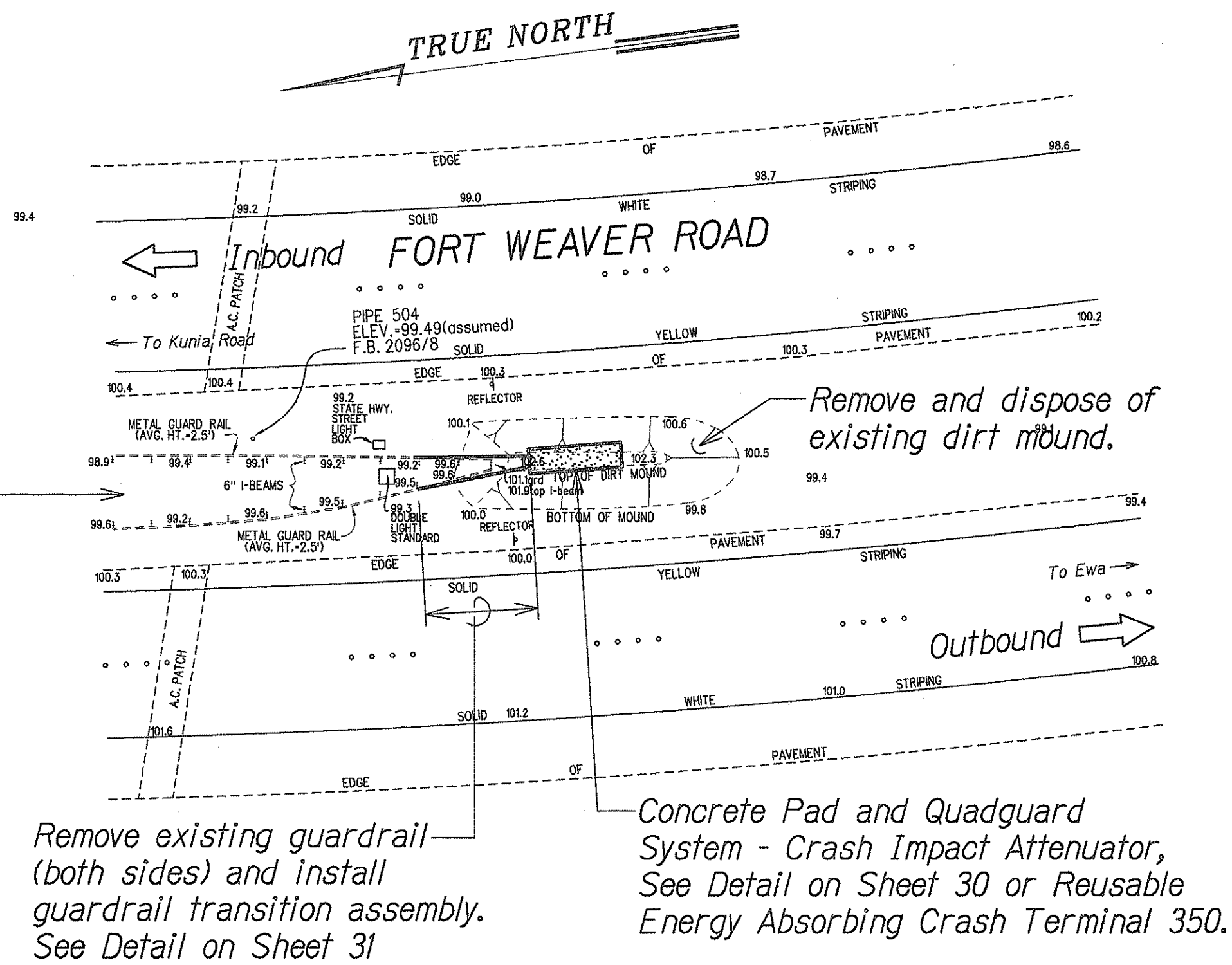
Scale: As Noted Date: August, 1998

SHEET No. **C1** OF **5** SHEETS

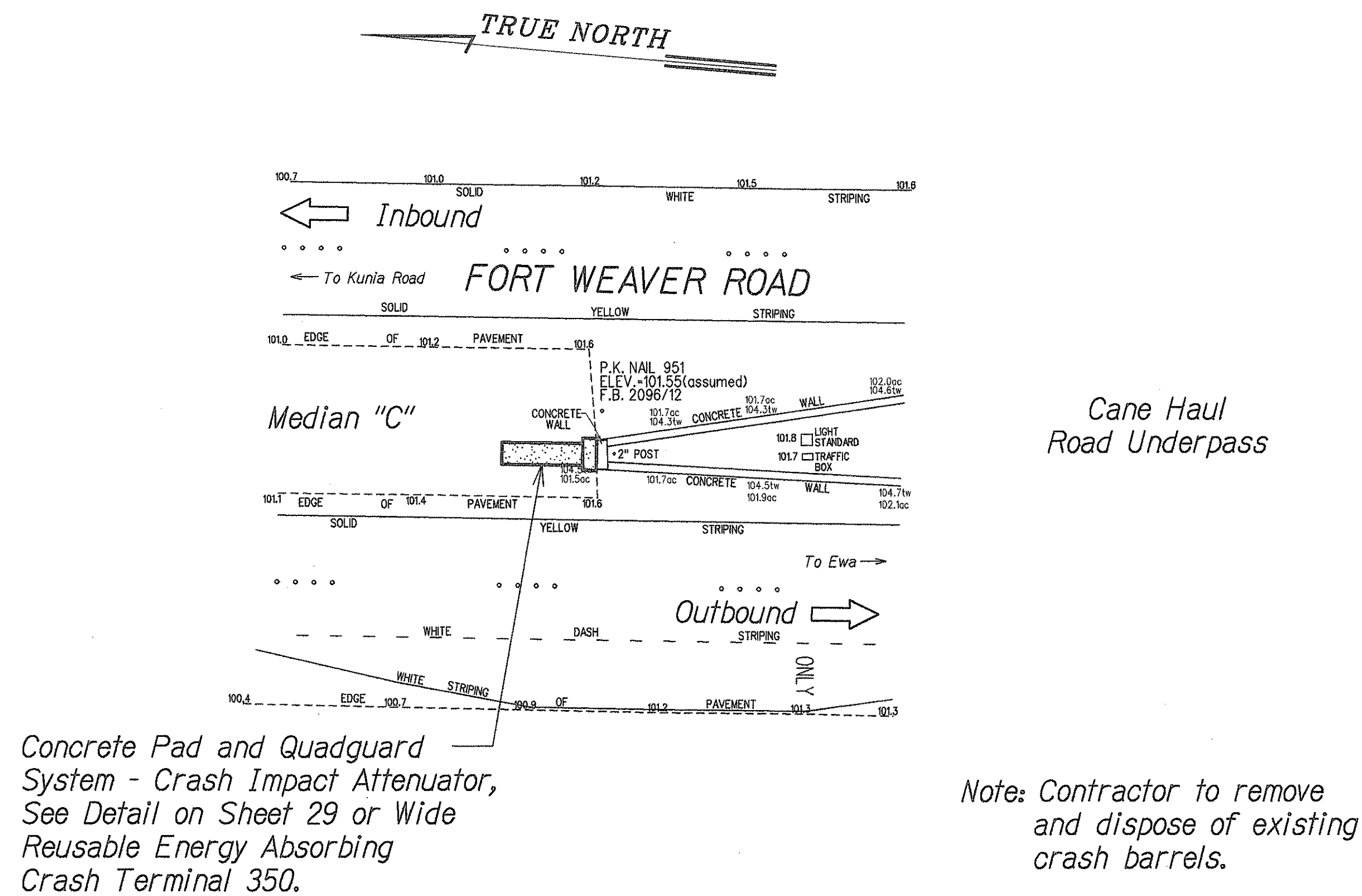
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-076-1(4)	1999	28	31



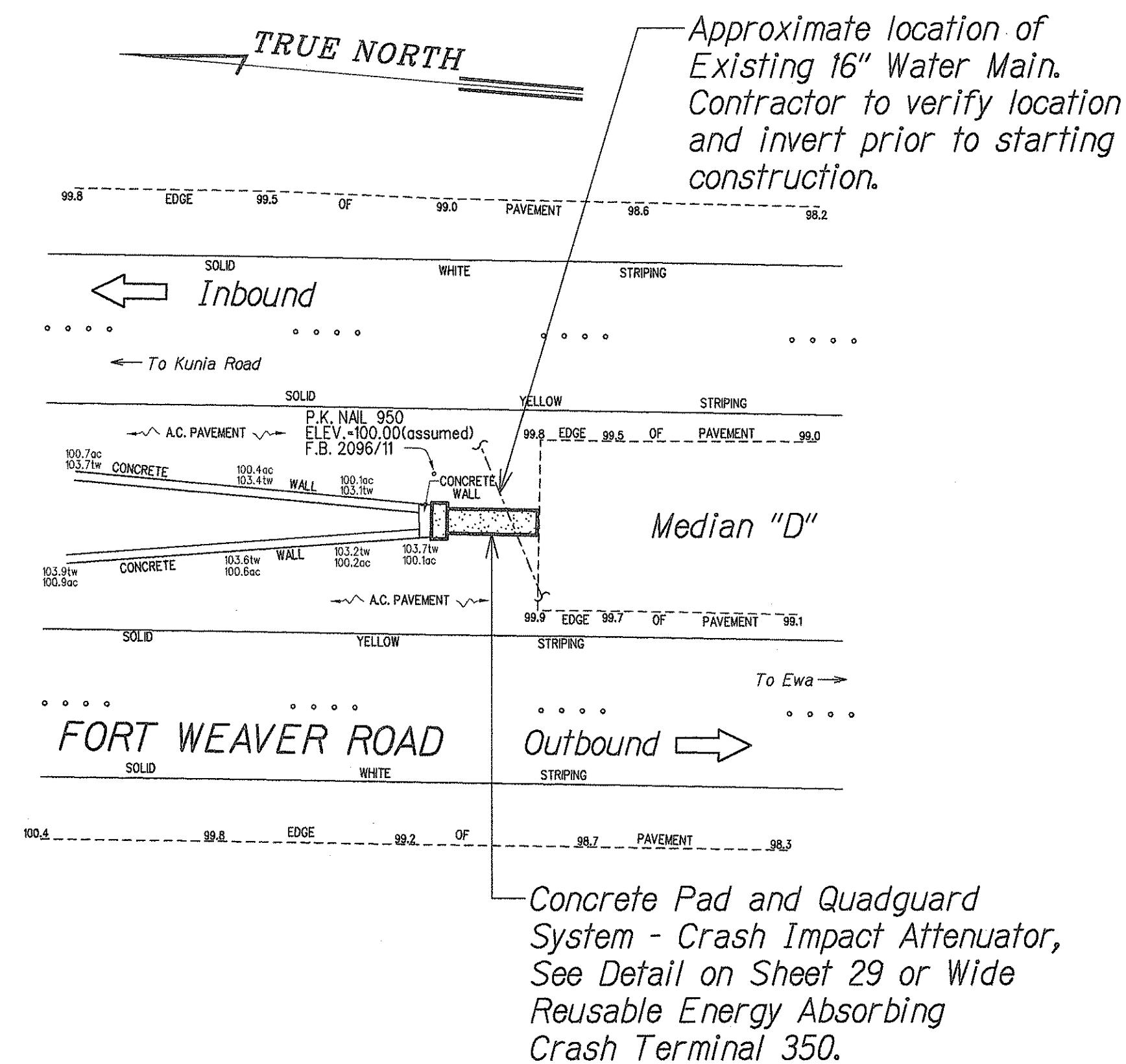
PLAN - SITE 2 (MAUKA) @ Sta. 156+40±
Scale: 1"= 20'



PLAN - SITE 2 (MAKAI) @ Sta. 159+00±
Scale: 1"= 20'



PLAN - SITE 3 (MAUKA) @ Sta. 173+40±
Scale: 1"= 20'



PLAN - SITE 3 (MAKAI) @ Sta. 177+30±
Scale: 1"= 20'

Note:
Foundation for Reusable Energy Absorbing Crash Terminal 350 shall be as recommended by manufacturer.

Approved:

* *Michael H.* 7/1/99
Chief, Planning & Engineering, BWS&J Date

* Signature has been digitized

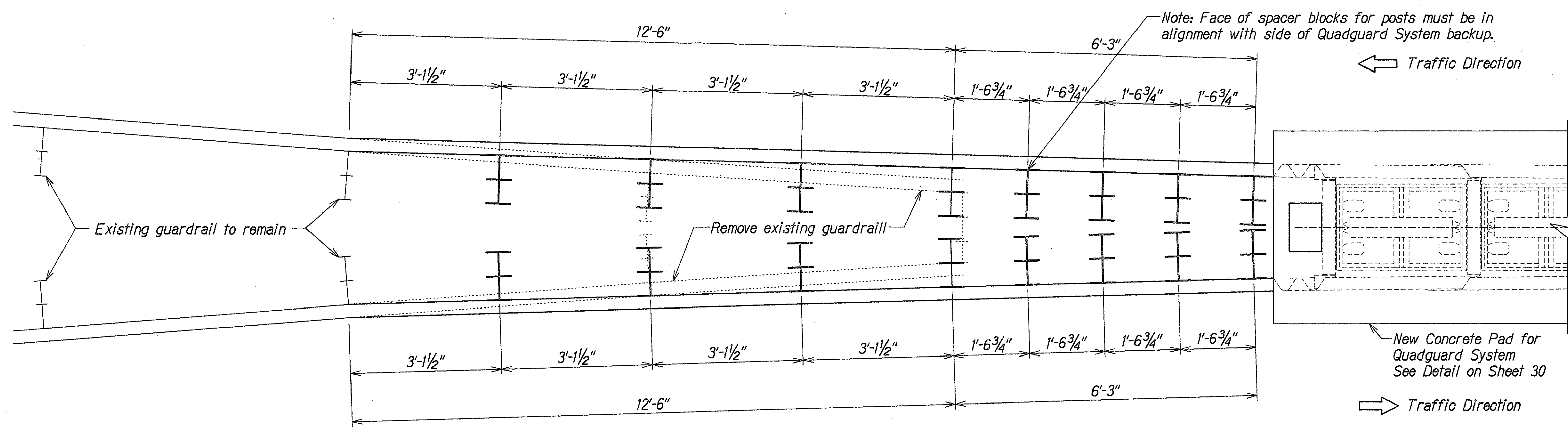


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Derrick C. Elfrank
Derrick C. Elfrank
dco PARK ENGINEERS

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CRASH CUSHION PLAN - SITES 2 AND 3	
FORT WEAVER ROAD LANDSCAPING Vicinity of Farrington Highway to Hanakahi Street PROJECT NO. STP-076-1(4)	
Scale: As Noted	Date: August, 1998
SHEET No. C2 OF 5 SHEETS	

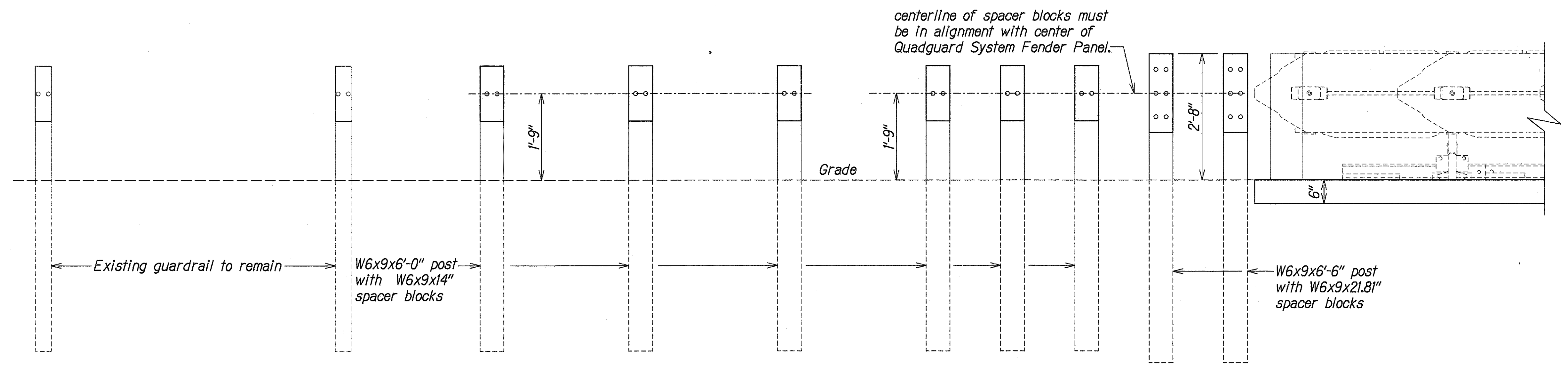
10/2/98	Add alternate "or (Wide) Reusable Energy Absorbing Crash Terminal 350."
DATE	REVISION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-076-1(4)	1999	31	31



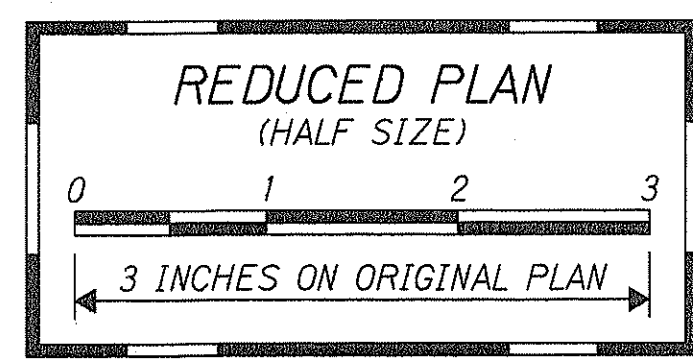
- Notes**
1. All hardware, posts and blocks shall be galvanized. No punching, drilling or cutting will be permitted after galvanizing.
 2. All fasteners, posts, blocks and rail elements shall conform to the latest edition and amendments of "A Guide to Standardized Highway Barrier Rail Hardware", a report prepared and approved by the AASHTO-AGC-ARTBA Joint Cooperative Committee.
 3. Additional designs and details required for the installation of the guardrail transition assembly shall be provided by the manufacturer.
 4. The installation of the guardrail transition assembly and all appurtenances shall be in accordance with the manufacturer's recommendations and requirements.

GUARDRAIL TRANSITION PLAN



ELEVATION

**PLAN - GUARDRAIL TRANSITION ASSEMBLY,
QUAD-BEAM TO W-BEAM AT SITE 2**
Scale: 3/4" = 1'-0"



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Melvin M. Suzuki
Poreh, Inc.
dba PARK ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

QUADGUARD SYSTEM
GUARDRAIL TRANSITION ASSEMBLY

FORT WEAVER ROAD LANDSCAPING
Vicinity of Farrington Highway to Hanakahi Street
PROJECT NO. STP-076-1(4)

Scale: As Noted Date: August, 1998

SHEET No. C5 OF 5 SHEETS

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