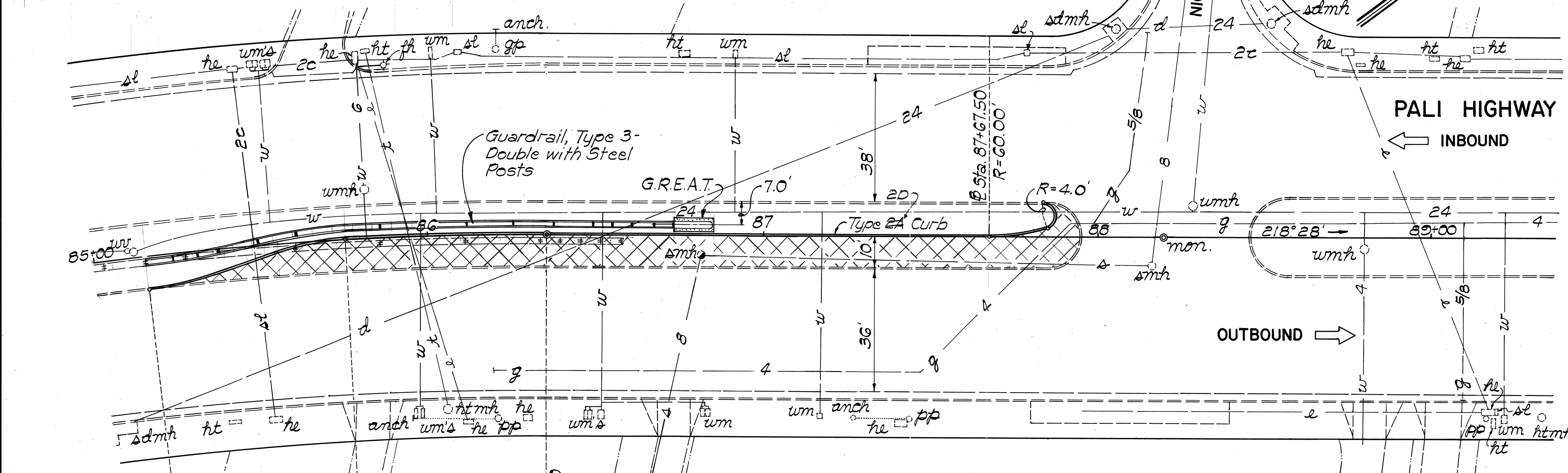


LEGEND

| | | | | | |
|------------|------------------------|-----------|------------------------------------|--------|-------------------------------------|
| ----- anch | Exist. Anchor | ○ htmh | Exist. Hawh. Tel. Manhole | ○ wmh | Exist. Water Manhole |
| ----- d | Exist. Storm Drain | ⊙ mon. | Exist. Street Monument | □ wmn. | Exist. Water Meter |
| ----- e | Exist. Electric Duct | ○ pp | Exist. Power Pole | ○ wv | Exist. Water Valve |
| ----- fh | Exist. Fire Hydrant | ○ sdmh | Exist. Storm Drain Manhole | ▨ | Denotes limits of new pavement |
| ----- g | Exist. Gas Line | --- sl-2c | Exist. Street Lighting w/2 Conduit | ● smh | Exist. Sewer Manhole to be adjusted |
| ○ gp | Exist. Guy Pole | ○ smh | Exist. Sewer Manhole | | |
| □ he | Exist. Hawh. Elec. Box | --- t | Exist. Telephone Duct | | |
| □ ht | Exist. Hawh. Tel. Box | --- w | Exist. Water Line | | |



CURVE DATA

$\Delta = 48^{\circ}38'00''$
 $4\frac{1}{2} = 24^{\circ}19'00''$
 $R = 1000.00'$
 $T = 451.87$
 $C = 823.56$
 $L_c = 848.81$

Sta. 85+15.5
 Begin Taper
 (Curb & Guardrail)

Sta. 86+75.5
 End Taper
 (Curb & Guardrail)

Sta. 86+35.50
 P.T. Sta. 86+35.50
 $R=1000.00'$

Sta. 85+15.50 to Sta. 86+85±
 Remove: 143± L.F. Existing Metal Guardrail, Type 3-Double with Posts.
 Install: 150± L.F. New Metal Guardrail, Type 3-Double with Steel Posts and Guardrail Energy Absorbing Terminal Impact Attenuator (G.E.A.T.), 3 Bays, 2 ft. wide.

Estimated Quantities:
 Guardrail, Type 3-Double with Steel Posts - 150± L.F.
 Guardrail Energy Absorbing Terminal Impact Attenuator (3 Bays) - 1 Each
 Guardrail Energy Absorbing Terminal Replacement Cells (Unassembled) - 3 Cell

Sta. 85+15.50 to Sta. 87+25±
 Remove: Portion of the existing median curbing and portion of the raised median.
 Construct: Left Turn Storage Lane, Type 2A median curbing and re-grass a 2'-0" strip in the median area adjacent to the New Type 2A Curb. For Detail, see Typical Section, this sheet.

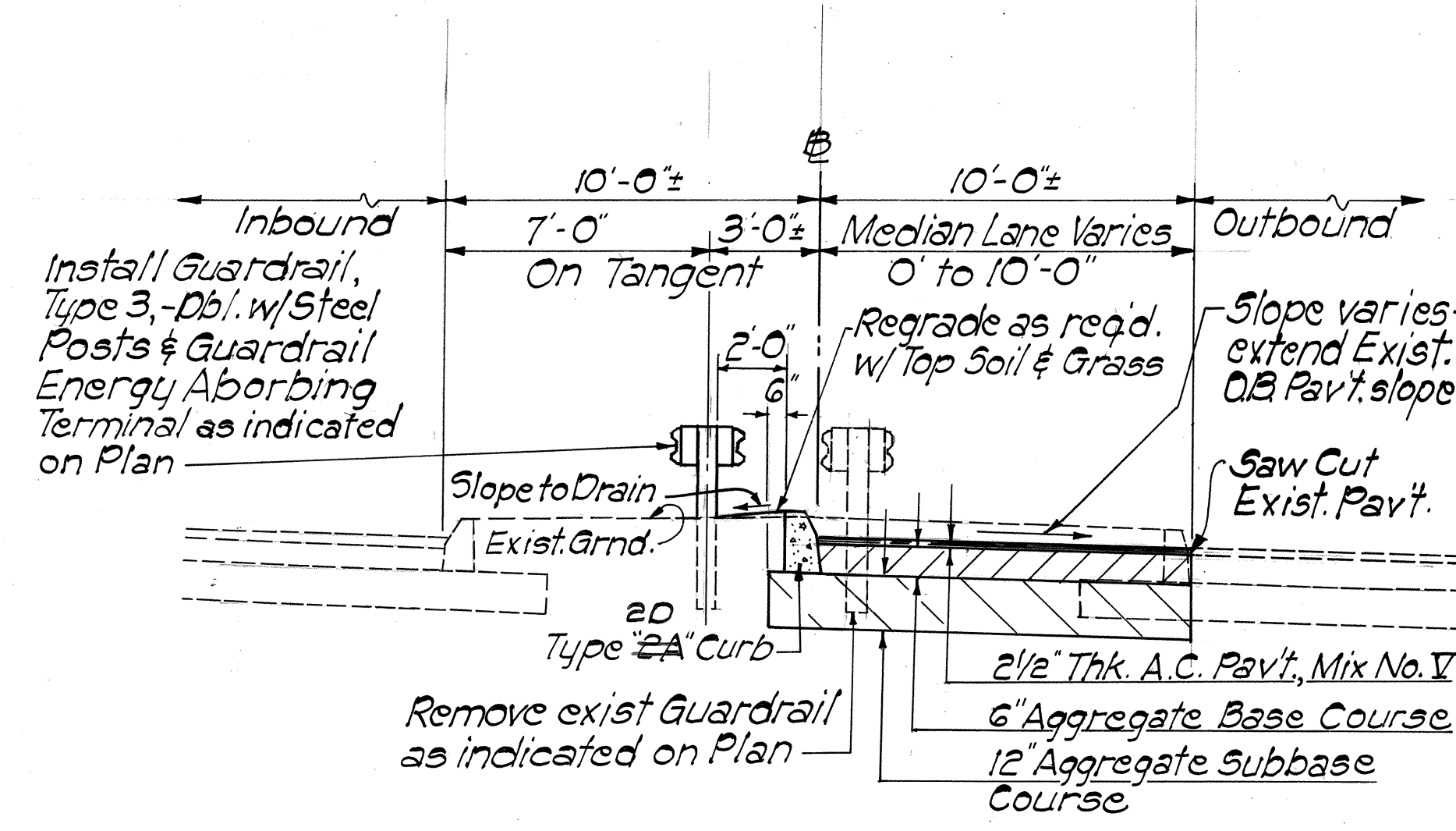
Estimated Quantities:
 Roadway Excavation - 245 C.Y.
 Aggregate Subbase - 110 C.Y.
 Aggregate Base - 50 C.Y.
 A.C. Pav't, Mix No. II - 45 Tons
 Curb, Type 2A 20 - 285 L.F.

Sta. 86+82±
 Reconstruct: Existing Sewer Manhole frame and cover to new pavement grade
Estimated Quantities:
 Reconstruct Sewer Manhole - 1 Each

GENERAL NOTES:

- Project Description - This project consists of constructing a left turn storage lane on Pali Highway at Niolopa Place. Improvements consist of reconstructing a sewer manhole, installing guardrail and impact attenuator, signs and pavement markings.
- The Contractor's attention is directed to Subsection 107.13 "Public Convenience and Safety" and Section 645 "Traffic Control" of the Special Provisions.
- The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. Furthermore, the encountering of other obstacles during the course of work may be possible. The Contractor shall be responsible and shall pay for all damages to existing facilities resulting from his operations.
- In the event that there is an on-going project in the vicinity of this project, the Contractor shall co-ordinate and schedule his work with the Contractor of the on-going project.
- The Contractor shall make every effort to expedite constructing the new pavement so as not to leave a drop-off adjacent to the travelled way for a prolonged period of time. The Contractor shall provide barricades with lights during his non-working hours as directed by the Engineer. This work shall be considered incidental to the various contract items.

- The Contractor shall construct smooth transitions from the new Type 2A Curbing to the existing curbing.
- The removal of existing guardrail with posts shall be considered incidental to new Guardrail, Type 3-Double with Steel Posts. The removed guardrail elements and posts shall be cleaned and hauled to the Oahu District Baseyard at 727 Koko Street. Cleaning and hauling of guardrail elements and posts shall be considered incidental to new Guardrail, Type 3-Double with Steel Posts.
- Smooth riding connections shall be provided to all existing pavement areas.
- The Contractor shall re-grass a 2'-0" strip in the median area adjacent to the new Type 2A Curb. The Contractor shall regrade as required, provide topsoil and re-grass with comparable vegetation, as directed by the Engineer. This work shall be considered incidental to the various contract items.



TYPICAL SECTION
Sta. 85+15.50 to Sta. 87+88±
 Scale: 1/4" = 1'-0"

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PLAN, TYPICAL SECTION AND GENERAL NOTES

PALI HIGHWAY
 PROJECT NO. G1A-01-85
 Scale: As Noted Date: May, 1985
 SHEET NO. 1 OF 1 SHEETS

APPROVED: *[Signature]* 6-7-85
 CHIEF, PLANNING & ENGINEERING, BWS
 DATE

[Signature] 5/23/85
 CHIEF, DIV. OF WASTEWATER MANAGEMENT
 DATE