

PLAN	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
ALIGNMENT CHECKED	BY	DATE
RT. OF WAY CHECKED		
NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
GRADES CHECKED		
B. M.'S NOTED		
STRUCTURE NOTATIONS CHECKED		

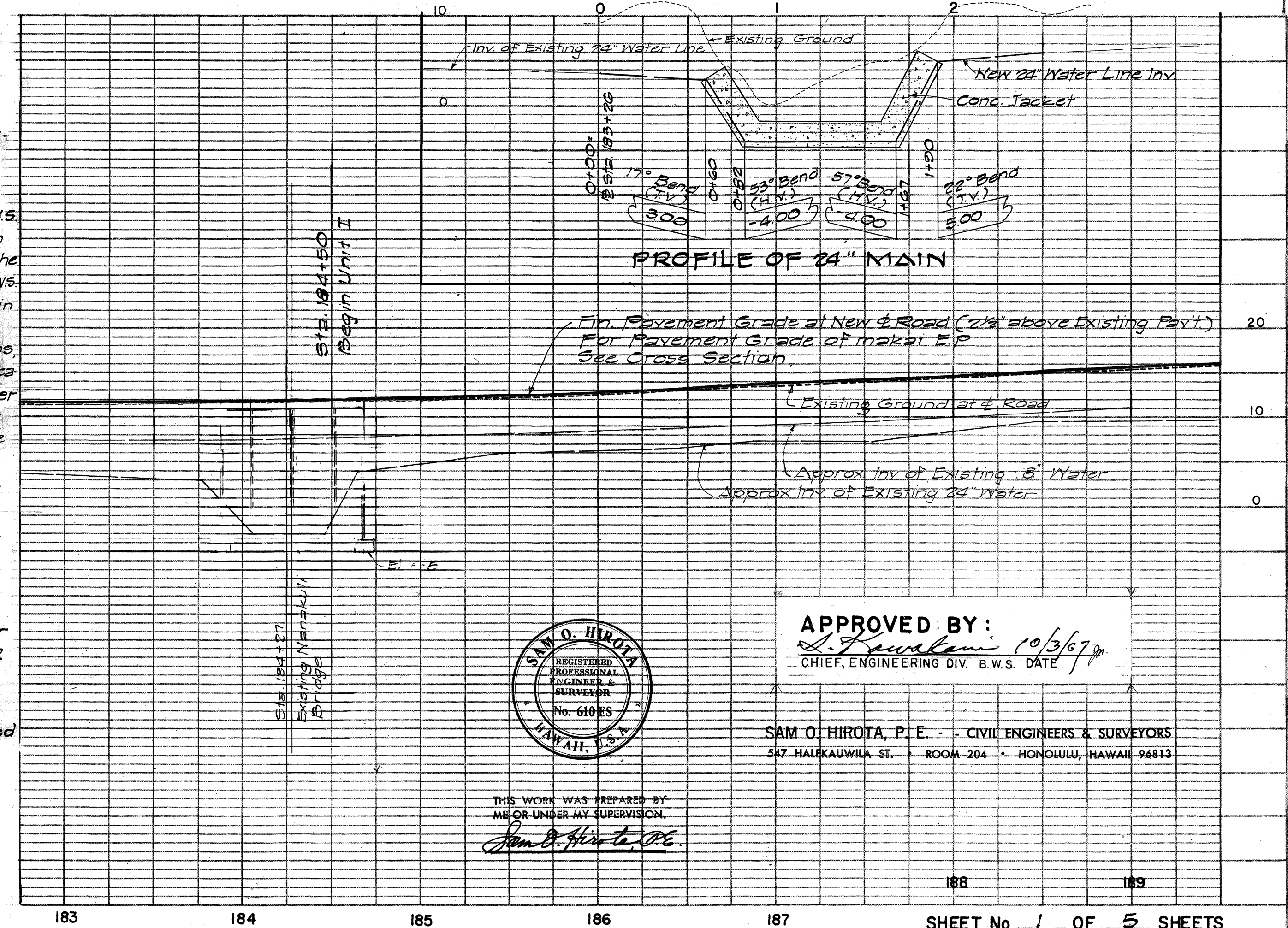
PLAY PROFILE R. P. B. STANDARD
E. FREDERICK POST CO., CHICAGO



16. Existing 24" main is Southern Pipe Co. (Formerly) manufacture. The Contractor shall be held responsible to furnish all necessary materials, including adaptors if required to facilitate connections into existing mains. Cost of adaptors shall be incidental to pipeline work.
17. Degree of conc. cylinder bends, or lengths of adjacent pipes required at point of connections to existing mains shall be verified after exposure of existing mains prior to start of construction work. Any resulting revisions required shall be done by the Contractor at his own cost. Degree of conc. cylinder bends specified on the plan at connection points are for bidding purpose only.
18. The Contractor shall make all connections from new or relocated meter to consumer's service pipe including excavation, backfill and furnishing of all materials. Payment for meter to consumer's service pipe connection will be made at the unit price bid in the Proposal and shall be full compensation for all labor, tools, materials and equipment including excavation and backfill.
19. The Board of Water Supply will tap existing mains for service laterals. The Contractor shall perform all necessary excavation and furnish appropriate size corporation stops.
20. Extension of service laterals, adjustment of meters and meter boxes, relocation of meters and cutting and plugging of service laterals shall be done by B.W.S. The Contractor



22. The Contractor shall expose the existing mains by hand excavation to verify the grade where the cover shows a minimum of 2 feet or less on the cross section plans or whenever directed by the Engineer.



SAM O. HIROTA, P. E. - - CIVIL ENGINEERS & SURVEYORS
547 HALEKAUWILA ST. • ROOM 204 • HONOLULU, HAWAII 96813

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

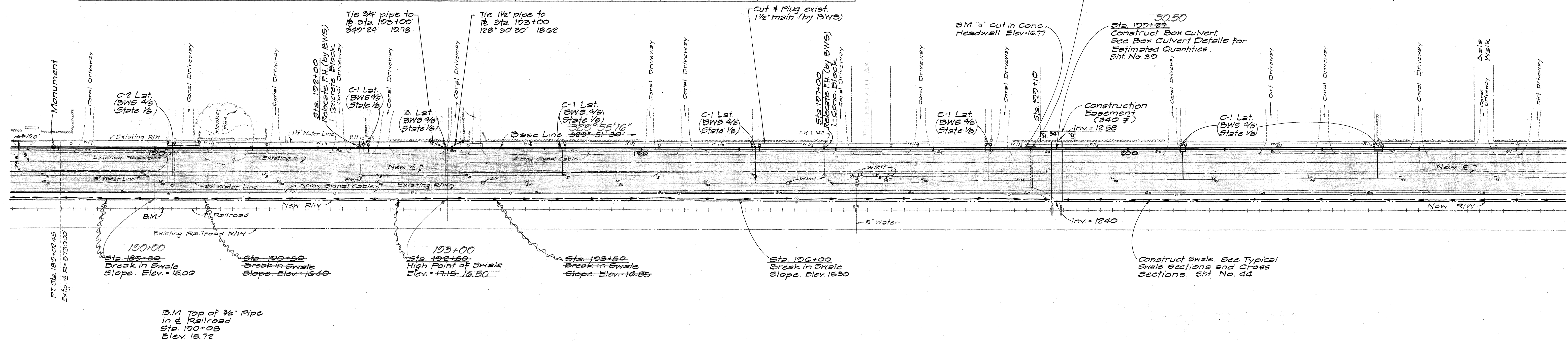
Sam B. Hirota, D.

SHEET No. 1 OF 5 SHEETS

STATE	FISCAL YEAR	SHEET NO.	TOTAL SHTS.
HAWAII	1967	5	76

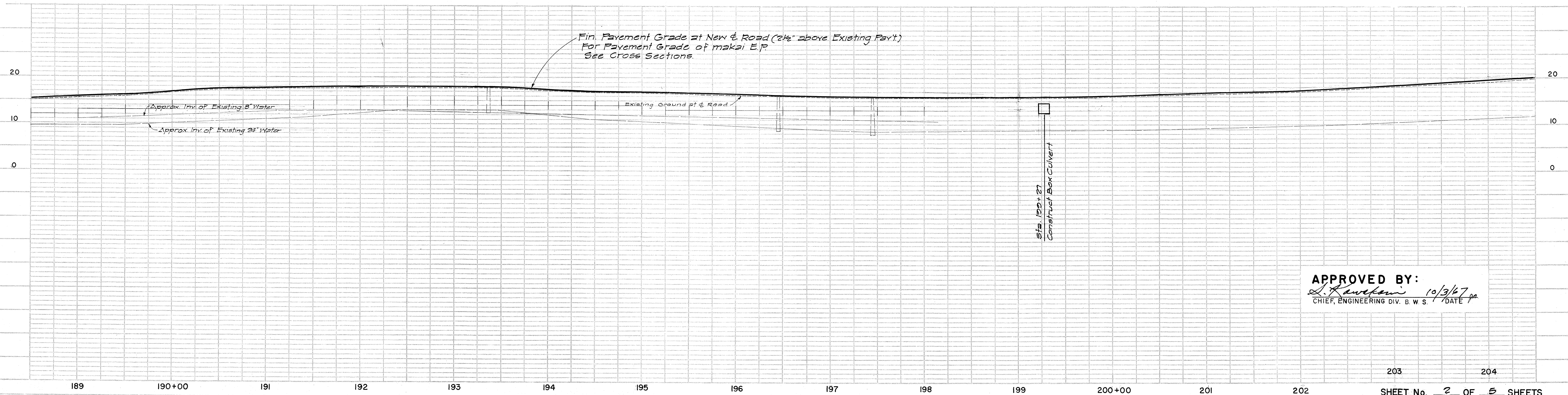
PROJECT NO. B-900-01-64 UNIT I

		A. C. CURB SCHEDULE															
STATION	Begin	189+38	190+45	191+30	191+06	192+41	193+14	193+37	195+15	195+53	197+15	197+28	198+77	200+53	201+56	202+10	203+05
	End	190+25	191+17	191+83	192+26	192+28	193+23	195+02	195+37	197+00	197+77	198+61	200+40	201+40	201+23	202+88	203+56
		189+43	190+50	191+37	192+07	192+49	193+23	193+50	195+67	197+08	197+25	198+83	200+60	201+61	202+17	203+18	188+55
		190+24	191+10	191+57	192+28	193+03	193+30	195+47	196+89	197+75	198+63	200+39	201+42	201+25	202+27	203+64	189+27



GENERAL NOTES

- | | | | | | |
|--|---|---|--|---|---|
| <p>1. All existing Utility lines shown on these plans are located from the best sources available. The Contractor shall check and verify the exact location and depth of same.</p> <p>2. All existing Utilities, whether or not shown on the plans shall be protected at all times by the Contractor during construction and any damage to existing Utilities shall be repaired and paid for by the Contractor</p> | <p>unless specified on the plans to be abandon.</p> <p>3. Where connections are made to existing facilities, mortar shall be used to seal around the culvert at the connection. Payment for making this connection shall be considered incidental to structure Excavation. Other existing facilities that are damaged by the Contractor shall be repaired at his expense.</p> | <p>4. Utility Poles shall be relocated as shown on the Utilities plans.</p> <p>5. Locations of monuments shown are approx. Exact locations to be staked out by the State's Cadastral Engineer.</p> <p>6. Provide smooth riding connections to existing pavement at all driveways and streets.</p> | <p>7. Demolishing of existing facilities shall not be paid for separately but shall be considered incidental to Structure Excavation, unless otherwise noted.</p> <p>8. The ends of abandoned pipe culverts shall be plugged with brick and mortar. This work shall not be paid for separately but shall be considered incidental to Structure Excavation.</p> | <p>9. See sheet 44 for Typical Cutoff Ditch and Swale Sections. For inverts of earth swales as shown on Typical Roadway Sections, sheet 2 and 3, see Cross Section 5, sheets G4 to G8</p> <p>10. Ditch and Channel Excavation for Swale will be measured and paid for under Roadway Excavation.</p> | <p>11. For location of Base line points, the Contractor shall contact Sam O. Hirota - Civil Engineers and Surveyors.</p> <p>12. Install A.C. Curb at left edge of Roadway as shown Typical Road Sections. See Table on drawings for location.</p> <p>(General Notes continued on) next sheet.</p> |
|--|---|---|--|---|---|



APPROVED BY: L. Kawakami 10/3/67
CHIEF, ENGINEERING DIV. B. W. S. / DATE

572. 218+06

Sta. 200+78
Construct Box Culvert
See Box Culvert Details
for Estimated Quantities.
Sht. No. 41
Demolish existing
Headwall and Culvert.

Sta. 218+06
High Point of Cutoff Ditch.
Elev. = 72.00
For Estimated Quantities.
See Sht No. 7
SEE TRANSITION DETAILS
Sht. No. 11

SHEET No. 3 OF 5 SHEETS

NEW & ROAD CURVE DATA

Δ = 1° 30' 00"
 Δ/2 = 0° 45' 00"
 R = 7,064.00
 T = 104.25
 LC = 203.50
 Ch = 208.49

Sta. 230+52
 Demolish existing D.I. (Incidental to structural excavation) Built 30" RCCP against existing 30" RCCP and place 8" thick by 1'-6" wide jacket reinf. with 6x6-10/10 wire mesh around joint (Incidental to Cl. B-I same)

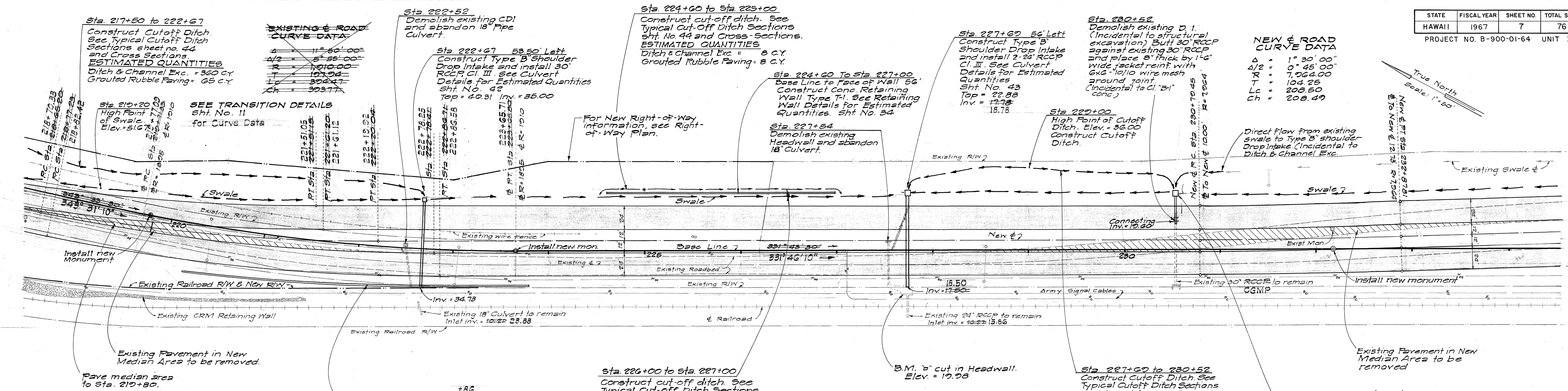
Sta. 227+60 56' Left
 Construct Type B Shoulder Drop Intake and install 2'-24" RCCP Cl. III. See Culvert Details for Estimated Quantities
 Sht. No. 43
 Top = 22.88
 Inv. = 17.78

Sta. 224+60 to Sta. 225+00
 Construct cut-off ditch. See Typical Cut-Off Ditch Sections sht. No. 44 and Cross-Sections. ESTIMATED QUANTITIES
 Ditch & Channel Exc. = 8 C.Y.
 Grouted Rubble Paving = 8 C.Y.

Sta. 222+67
 Demolish existing CD1 and abandon 18" Pipe Culvert.
 Construct Type B Shoulder Drop Intake and install 30" RCCP Cl. III. See Culvert Details for Estimated Quantities
 Sht. No. 42
 Top = 40.31
 Inv. = 35.00

Sta. 217+50 to 222+67
 Construct Cutoff Ditch. See Typical Cutoff Ditch Sections sheet no. 44 and Cross Sections. ESTIMATED QUANTITIES
 Ditch & Channel Exc. = 360 C.Y.
 Grouted Rubble Paving = 65 C.Y.

SEE TRANSITION DETAILS
 Sht. No. 11
 for Curve Data



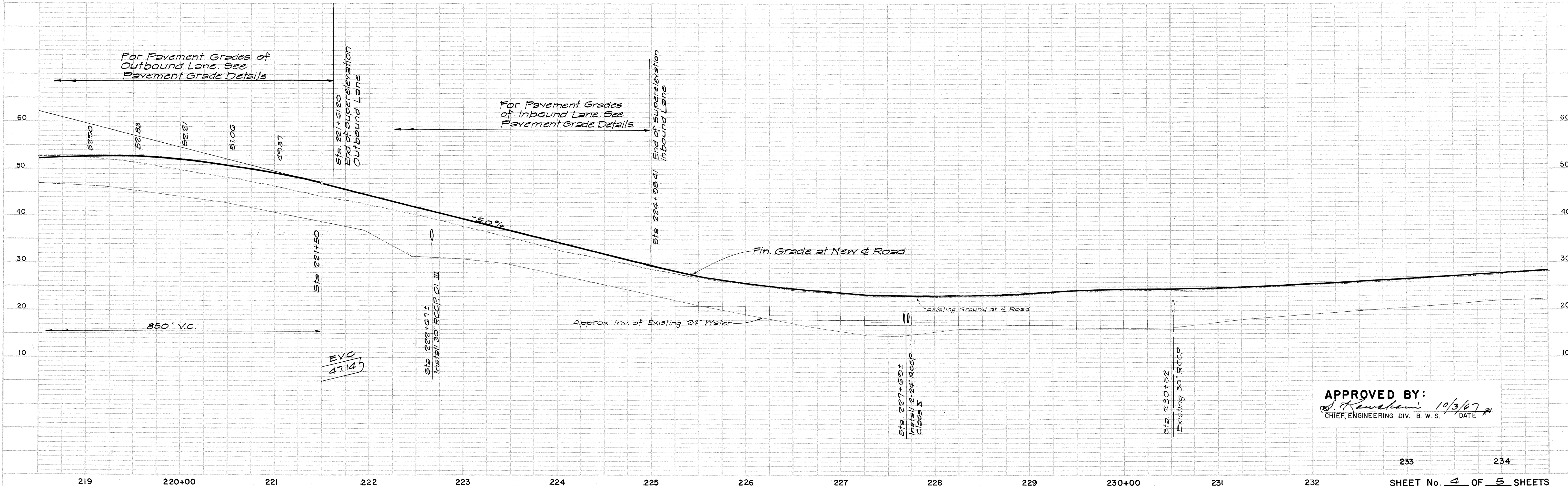
NOTE:
 1. Ditch & Channel excavation for Swale will be measured and paid for under Roadway Excavation.
 2. Excavation for cut-off ditch to be measured and paid for under Ditch & Channel Excavation.

Sta. 226+00 to Sta. 227+00
 Construct cut-off ditch. See Typical Cut-Off Ditch Sections sht. No. 44 and Cross-Sections. ESTIMATED QUANTITIES
 Ditch & Channel Exc. = 10 C.Y.
 Grouted Rubble Paving = 10 C.Y.

Sta. 220+20 To 223+00
 Construct Conc. Retaining Wall Type L-1. See Retaining Wall Details for Estimated Quantities. Sht. No. 34

Sta. 227+60 to 230+52
 Construct Cutoff Ditch. See Typical Cutoff Ditch Sections sheet no. 44 and Cross Sections. All radii of curves to be 10 ft. Provide 10% super-elevation about &. Provide 10 ft transition between normal & super-elevation. Run-off entry & grouted rubble paving to Drop Intake at Sta. 230+52 shall be similar to run-off entry & grouted rubble paving to Drop Intake at Sta. 227+60 shown sht. no. 43. ESTIMATED QUANTITIES
 Ditch & Channel Exc. = 203 C.Y.
 Grouted Rubble Paving = 60 C.Y.

Sta. 230+52 56' Left
 Construct Type B Shoulder Drop Intake and install 30" RCCP Class III with 30 L.F. concrete protection. Shoulder Inv. = 23.45
 Top = 23.20
 Inv. = 19.68
ESTIMATED QUANTITIES
 Str. Exc. = 10 C.Y.
 Cl. A-1 Conc. = 4 C.Y.
 Cl. B-1 Conc. = 11 C.Y.
 Reinf. Steel = 310 LB
 Type 2 Steel Frame & Grates = 1 Ea
 24" Pipe Culvert = 20 L.F.
 Wire Mesh = 18 LB

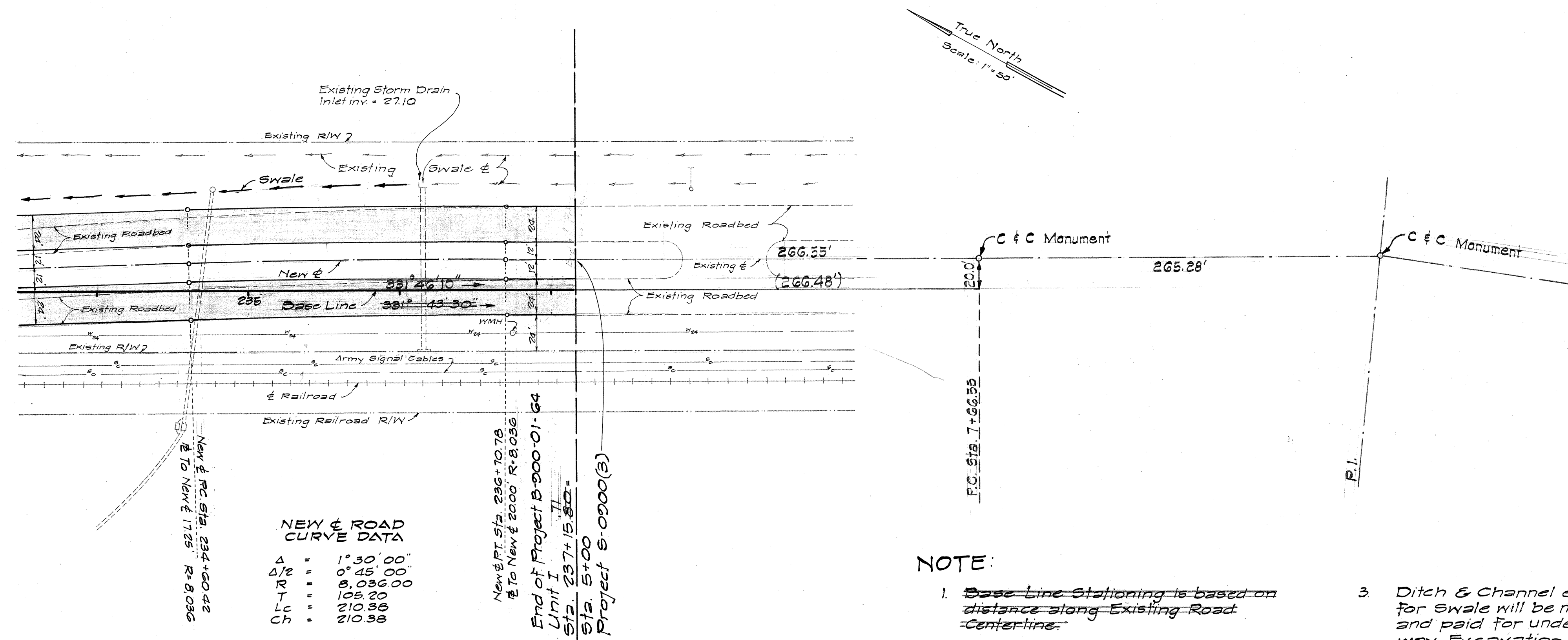


APPROVED BY:
 [Signature] 10/3/67
 CHIEF, ENGINEERING DIV. B. W. S. DATE

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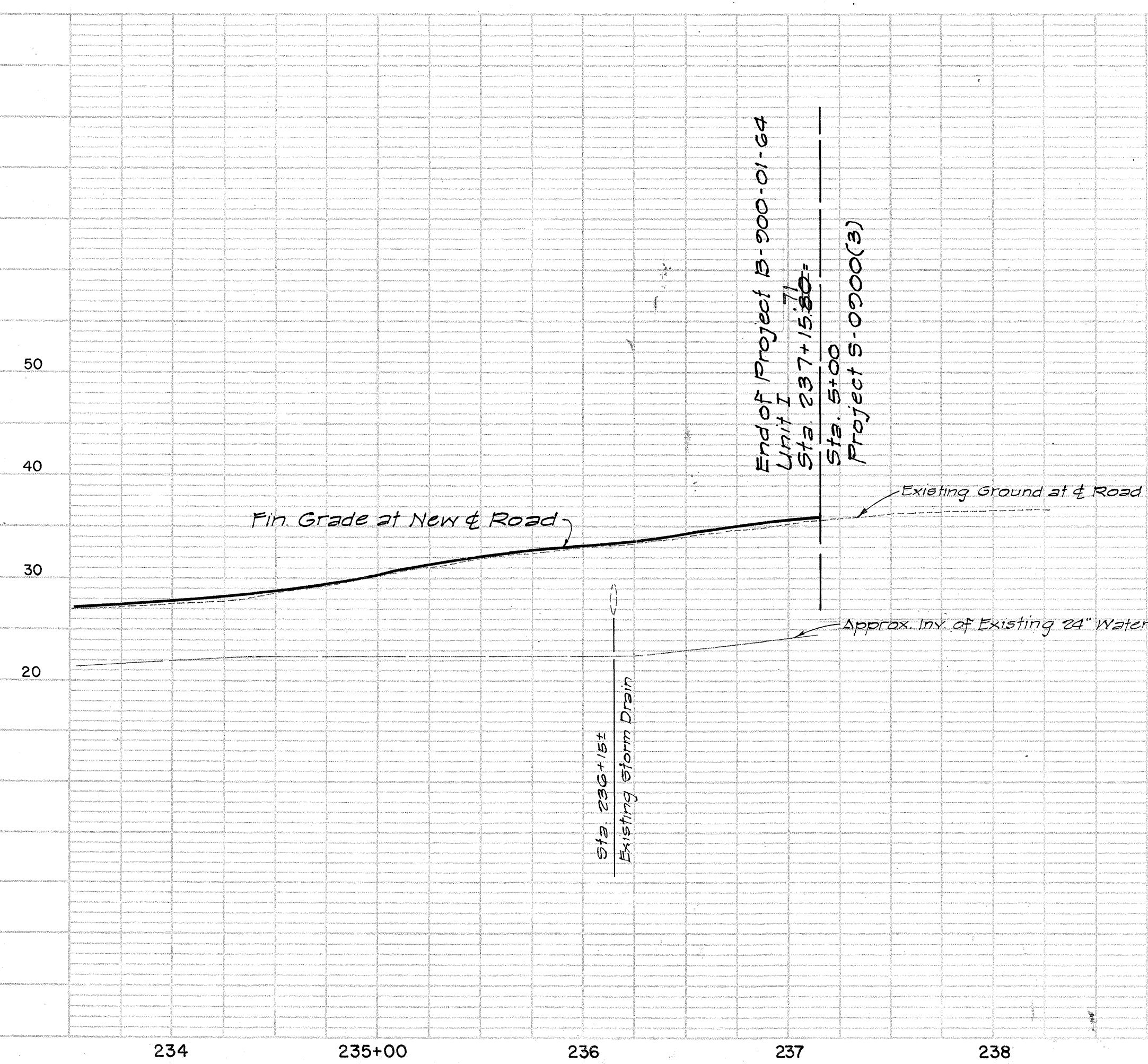
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NOTE:

1. ~~Base Line Stationing is based on distance along Existing Road Centerline.~~
2. ~~Base Line Azimuths adopted from plans of Waianae Road (F&P No. 4A).~~
3. Ditch & Channel excavation for Swale will be measured and paid for under Road-way Excavation.



APPROVED BY:
S. Kawakami 10/3/67
CHIEF, ENGINEERING DIV. B. W. S. DATE