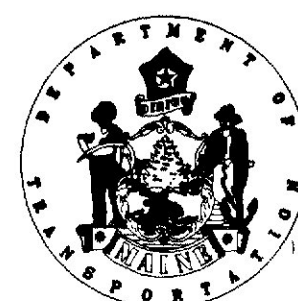


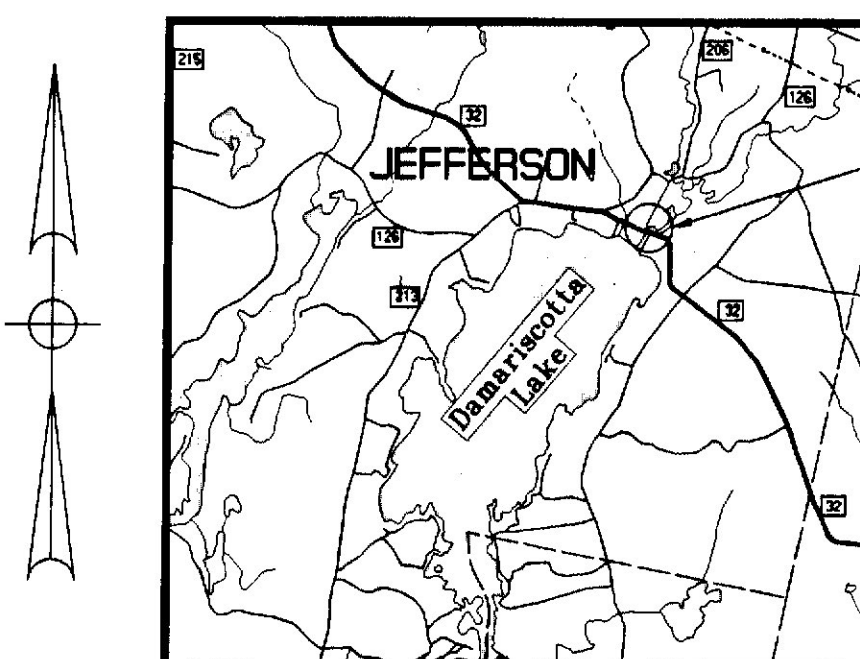
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	BR-034P(1)X	1	31

STATE OF MAINE DEPARTMENT OF TRANSPORTATION

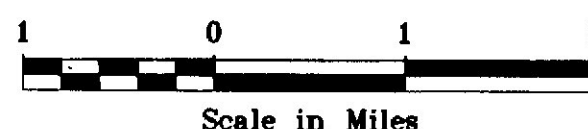


PLANS

HOTEL BRIDGE OVER DAVIS STREAM IN THE TOWN OF JEFFERSON LINCOLN COUNTY PROJECT NO. BR-034P(1)X PROJECT LENGTH 0.0237 MILES



LOCATION MAP



SPECIFICATIONS

DESIGN: Load Factor Design per AASHTO Standard Specifications for Highway Bridges 1992.

CONTRACT: State of Maine, Department of Transportation, Standard Specifications, Highways and Bridges, Revision of October 1990.

DESIGN LOADING

LIVE LOAD: HS25

Materials

CONCRETE: Precast Class P
Structural Concrete Slab Class A
All Other Class A

STRUCTURAL STEEL: ASTM A36 STEEL

REINFORCING STEEL: ASTM A615 Grade 60

PRESTRESSING STRANDS: ASTM A416 Grade 270, 1/2 inch, Uncoated, 7 Wire Low Relaxation Strand

Basic Design Stresses

CONCRETE: Precast: f'c = 6,000 psi
Cast in Place: f'c = 3,000 psi

REINFORCING STEEL: fy = 60,000 psi

PRESTRESSING STRANDS: fy = 270,000 psi

STRUCTURAL STEEL: H-Piles Fy = 36,000 psi

Hydrologic Data

Drainage Area (square miles) 26.2
Design Discharge (Q50) 2670 cfs
Check Discharge (Q100) 3160 cfs
Headwater Elevation (Q50) 57.33
Headwater Elevation (Q100) 58.91
Discharge Velocity (Q50) 6.2 fps
Discharge Velocity (Q100) 6.9 fps

Plans of the reconstruction of the existing superstructure and addition of concrete caps to the existing abutments and wing walls and a hydrologic report of the bridge site are available for the Contractor's reference at the Bridge Design Office in Augusta. The plans are reproductions of original drawings as prepared for the construction of the bridge and it is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span. The hydrologic report is based on the interpretation by the Department of information obtained for the subject site and no assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction.

Traffic Data

A.A.D.T. (1990)	2280
A.A.D.T. (2010)	3190
D.H.V.	383
T.(%D.H.V.)	6
D.(%D.H.V.)	60
V.	35 M.P.H.
P.S.D.(%)	N/A
18 KIPS	P2.0 78
	P2.5 77

NOTE

ALL WORK CONTEMPLATED UNDER THIS CONTRACT TO BE GOVERNED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (REVISION OF OCTOBER 1990) AND SUPPLEMENTALS THERETO AS MODIFIED ON THE PLANS AND IN THE SPECIAL PROVISIONS.

INDEX OF SHEETS

SHEET NO. DESCRIPTION

1	TITLE SHEET
2	ESTIMATED QUANTITIES
3	GENERAL PLAN & PROFILE
4-5	CROSS SECTIONS
6	FOUNDATION SURVEY
7	STAGE CONSTRUCTION DETAILS
8	ABUTMENT #1
9	ABUTMENT #2
10-11	PRECAST BOX BEAM DETAILS
12	SUPERSTRUCTURE
13	GUARDRAIL LAYOUT & FASCIA OFFSETS
14	REINFORCING STEEL SCHEDULE
15-21	BRIDGE STANDARD DETAILS
22-30	HIGHWAY STANDARDS
31	RIGHT-OF-WAY MAP

BRIDGE STANDARD DETAILS

BD 202-93	REV. 7/93	3 BAR CONCRETE END POST
BD 203-93	REV. 7/93	4 BAR CONCRETE END POST
BD 402-93	REV. 7/93	ALUMINUM BRIDGE RAILING 3-BAR
BD 405-93	REV. 7/93	PALE PANEL DETAILS 3-BAR
BD 406-93	REV. 7/93	ALUMINUM BRIDGE RAILING 4-BAR
BD 407-93	REV. 7/93	PALE PANEL DETAILS 4-BAR
BD 501-93	REV. 7/93	SUBSTRUCTURE DETAILS

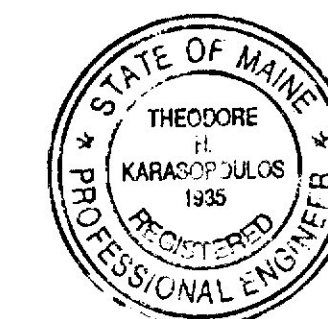
HIGHWAY STANDARDS

HD-4	REV. 10/92	MUCK EXCAVATION
HD-5	REV. 10/92	DRIVES & ENTRANCES
HD-6	REV. 10/92	TYPE 3 GUARDRAIL
HD-7	REV. 10/92	EROSION CONTROL
HD-10	REV. 10/92	MAINTENANCE OF TRAFFIC
HD-11	REV. 10/92	MAINTENANCE OF TRAFFIC
HD-12	REV. 10/92	MAINTENANCE OF TRAFFIC
HD-14	REV. 10/92	PEDESTRIAN RAMPS
HD-15	REV. 10/92	GEOTEXTILES

APPROVED:

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

[Signature]
COMMISSIONER
[Signature]
CHIEF ENGINEER



12-21-93
DATE
12-21-93
DATE

UNITED STATES
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

REGION 1

APPROVED: _____
DIVISION ADMINISTRATOR DATE

14DEC93-010120

102

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.23	REMOVING SINGLE TREE TOP ONLY	3	EACH
201.24	REMOVING STUMP	5	EACH
202.19	REMOVING EXISTING BRIDGE [CY]	1	LS
203.20	COMMON EXCAVATION	415	CY
203.24	COMMON BORROW	95	CY
203.25	GRANULAR BORROW	165	CY
206.082	STRUCTURAL EARTH EXCAVATION--MAJOR STRUCTURES	350	CY
301.09	PLANT MIX BITUMINOUS BASE COURSE, GRADING B	46	TONS
304.10	AGGREGATE SUBBASE COURSE--GRAVEL	498	CY
403.07	HOT BITUMINOUS PAVEMENT, GRADING B	66	TONS
403.10	HOT BITUMINOUS PAVEMENT, GRADING D	87	TONS
403.101	HOT BIT. PVMT., GRD D (SIDEWALKS, SHMS, DRIVES, INCIDENTALS)	16	TONS
409.15	BITUMINOUS TACK COAT, APPLIED	6	GAL
501.46	STEEL H-BEAM PILES 73 LBS/FT. DELIVERED	800	LF
501.461	STEEL H-BEAM PILES 73 LBS/FT. IN PLACE	800	LF
501.90	PILE TIPS	16	EACH
501.92	PILE MOBILIZATION	1	LS
502.21	STRUCTURAL CONCRETE, ABUTMENTS & RETAINING WALLS	73	CY
502.25	STRUCTURAL CONCRETE SUPERSTRUCTURE SLABS [CY]	1	LS
502.4711	SILICA FUME ADDITIVE [LB]	1	LS
503.12	REINFORCING STEEL FABRICATED & DELIVERED 10.9JD	10.9JD	LB
503.13	REINFORCING STEEL PLACING 10.900	10.900	LB
503.17	MECHANICAL/WELDED SPLICE	50	EACH
507.0941	ALUMINUM BRIDGE RAILING, 3 BAR, WITH PALES ANODIZED	67	LF
507.0946	ALUMINUM BRIDGE RAILING, 4 BAR, WITH PALES ANODIZED	76	LF
508.13	MEMBRANE WATERPROOFING [SY]	1	LS
510.10	SPECIAL DETOUR, 11' ROWY WIDTH VEH. & PED. TRAF. NOT SEP.	1	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES	1	LS
525.34	GRANITE MASONRY FACING	77	SF
526.301	TEMPORARY CONCRETE BARRIER TYPE I	1	LS
527.32	PORTABLE CRASH BARRELS	7	EACH
535.62	PRESTRESSED STRUCTURAL CONCRETE BOX BEAMS [CY]	1	LS
606.151	GUARD RAIL TYPE 3ee--SINGLE RAIL	75	LF
606.191	GUARD RAIL TYPE 3ee--15 FOOT RADIUS AND LESS	96	LF
606.25	TERMINAL CONNECTOR	4	EACH
606.266	TERMINAL END--SINGLE RAIL--CORROSION RESISTANT STEEL	3	EACH
606.35	GUARD RAIL DELINEATOR POST	4	EACH
606.77	BREAKAWAY CABLE TERMINAL	1	EACH
609.31	CURB TYPE 3	20	LF
610.08	PLAIN RIPRAP	480	CY
610.18	STONE DITCH PROTECTION	5	CY
615.07	LOAM	16	CY
616.08	SODDING	16	SY
618.13	SEEDING METHOD NUMBER 1	3	UNIT
618.15	TEMPORARY SEEDING	3	LB
618.25	APPLIED WATER	1	MG
619.12	MULCH	4	UNIT
620.58	EROSION CONTROL GEOTEXTILE	18	SY
627.61	4 INCH SOLID WHITE PAVEMENT MARKING LINE	500	LF
627.63	4 INCH SOLID YELLOW PAVEMENT MARKING LINE	500	LF

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
627.65	WHITE OR YELLOW PAVEMENT AND CURB MARKING	50	SF
627.67	REMOVING PAVEMENT MARKINGS	550	SF
627.68	TEMP. 4" PAINTED PAVEMENT MARKING LINE, YELLOW OR WHITE	1500	LF
629.05	HAND LABOR, STRAIGHT TIME	210	MH
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HOUR
631.172	TRUCK--LARGE (INCLUDING OPERATOR)	10	HOUR
637.07	SPRINKLING	10	MG
637.08	CALCIUM CHLORIDE	1	TONS
639.19	FIELD OFFICE TYPE B	1	EACH
639.23	TESTING FACILITIES CONCRETE	1	LS
643.72	TEMPORARY TRAFFIC SIGNAL: XX	1	LS
652.31	TYPE I BARRICADE	10	EACH
652.311	TYPE II BARRICADE	5	EACH
652.33	DRUM	10	EACH
652.34	CDNE	10	EACH
652.35	CONSTRUCTION SIGNS	510	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGER	200	MH
656.50	BALED HAY, IN PLACE	18	EACH
656.51	SANDBAG, IN PLACE	18	EACH
656.632	30" TEMPORARY SILT FENCE	500	LF
657.24	SEEDING PITS	1	UNIT
659.10	MOBILIZATION	1	LS

General Construction Notes

- All utility facilities shall be adjusted by the respective utilities unless noted.
- For easements, construction limits and right-of-way lines refer to Right of Way Map.
- Place a 1'-6" wide strip of sod on the side slopes along the top of the riprap.
- All embankment material, except as otherwise shown, placed below water, shall be granular borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill.
- The clearing limits as shown on the plans are approximate. The exact limits shall be established in the field by the Engineer. Payment for clearing shall be incidental to related contract items.
- Place Loam, 2" deep, on slopes between Station 205+50 and 208+00.
- Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Engineer. Payment for shaping and compacting of the existing subbase and layers of new subbase 6" or less thick, in areas where the Engineer directs the Contractor not to excavate to the subgrade line shown on the plans, will be made in accordance with subsection 104.03, Extra Work.
- One guardrail delineator post and one terminal end shall be installed at each guardrail end.
- OMITTED
- Sodded gutters shall be constructed, after paving and shoulder work is completed, where it is apparent that runoff will cause continual erosion.
- OMITTED
- Boat Traffic Control Officers shall be provided by the Contractor to allow for safe passage of boat traffic through the work area during construction hours when approved by the Engineer. The payment for furnishing the officer will be paid for under Item 629.05, Hand Labor, Straight Time.
- OMITTED
- During construction, the Contractor shall maintain the existing gauge station located on the south-westerly corner of the existing abutment in a manner approved by the Engineer. Upon completion of the project the gauge shall be permanently reset by the Contractor in a manner approved by the Engineer. Payment for maintaining and resetting the gauge shall be considered incidental to Item 202.19, Removing Existing Bridge.

15.- Where the proposed riprap slopes are to be constructed along the easterly bank of the stream (upstream and downstream), where stone walls now exist, the stone wall will be removed to clear for the riprap. The riprap will be blended to match the stone walls. The removed stones shall be stockpiled on the respective owners property. The work required to remove and stockpile the stones and blending to match stone walls will be considered incidental to Item 610.08, Plain Riprap.

PROJECT DESIGN ENGINEER
 CHECKED
 REVISIONS
 FIELD CHANGES

DATE 10-93
 BY MKD

PLANS

18JANS4-010100

REVISION	DESCRIPTION	DATE
△	Revised Rebar Quantity	2-9-94

STATE OF MAINE 103
 DEPARTMENT OF TRANSPORTATION

HOTEL BRIDGE
 OVER
 DAVIS STREAM
 IN THE TOWN OF
 JEFFERSON
 LINCOLN COUNTY

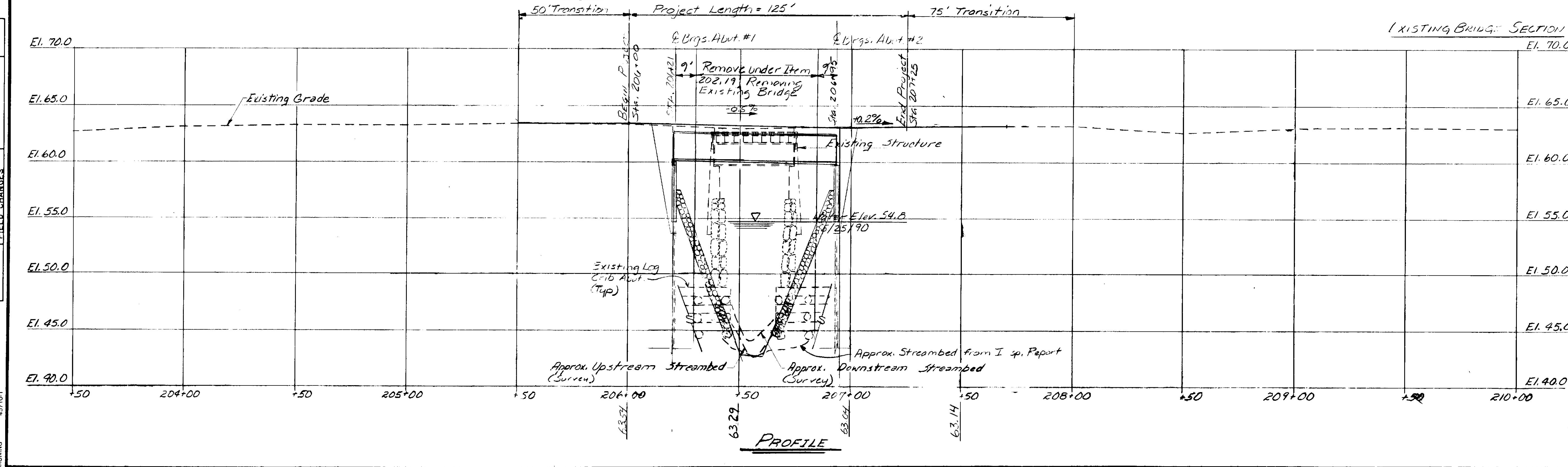
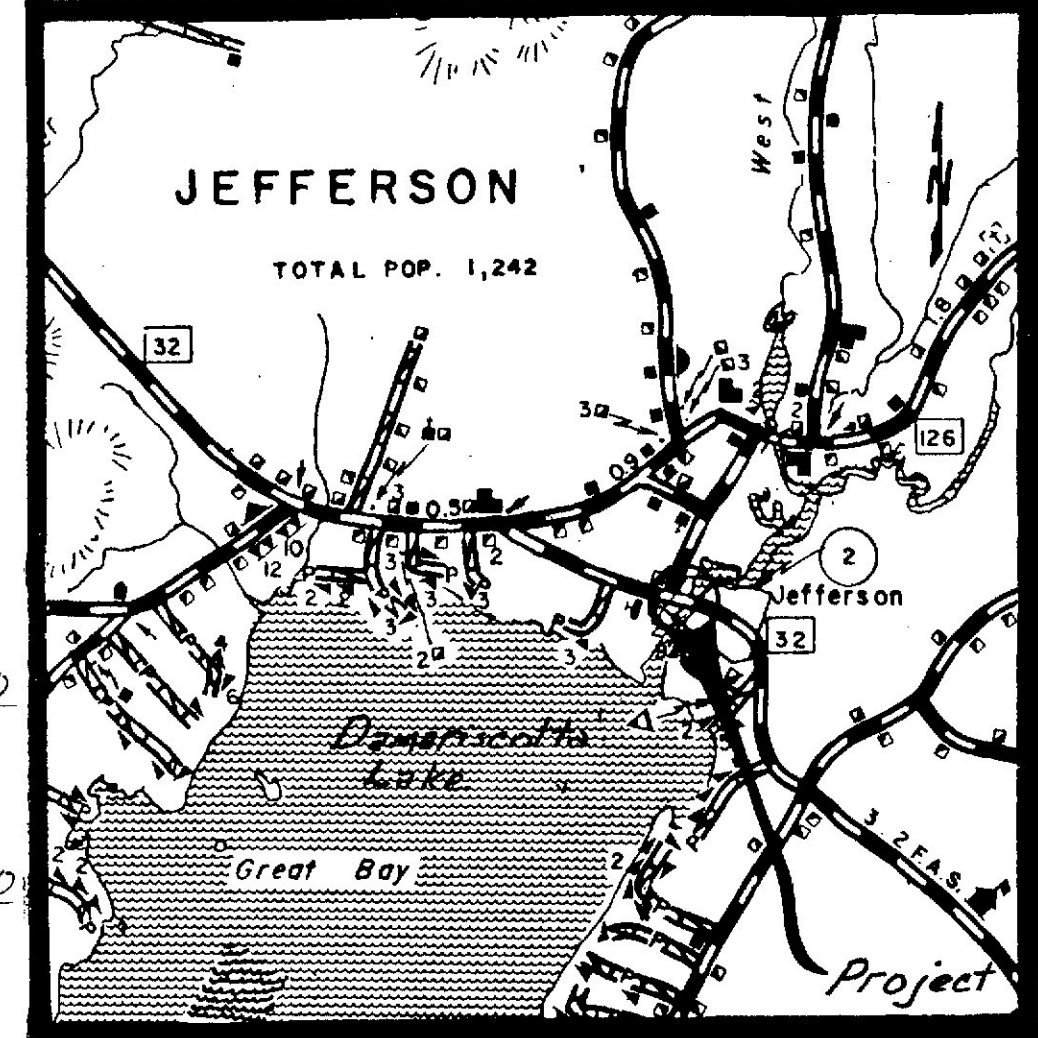
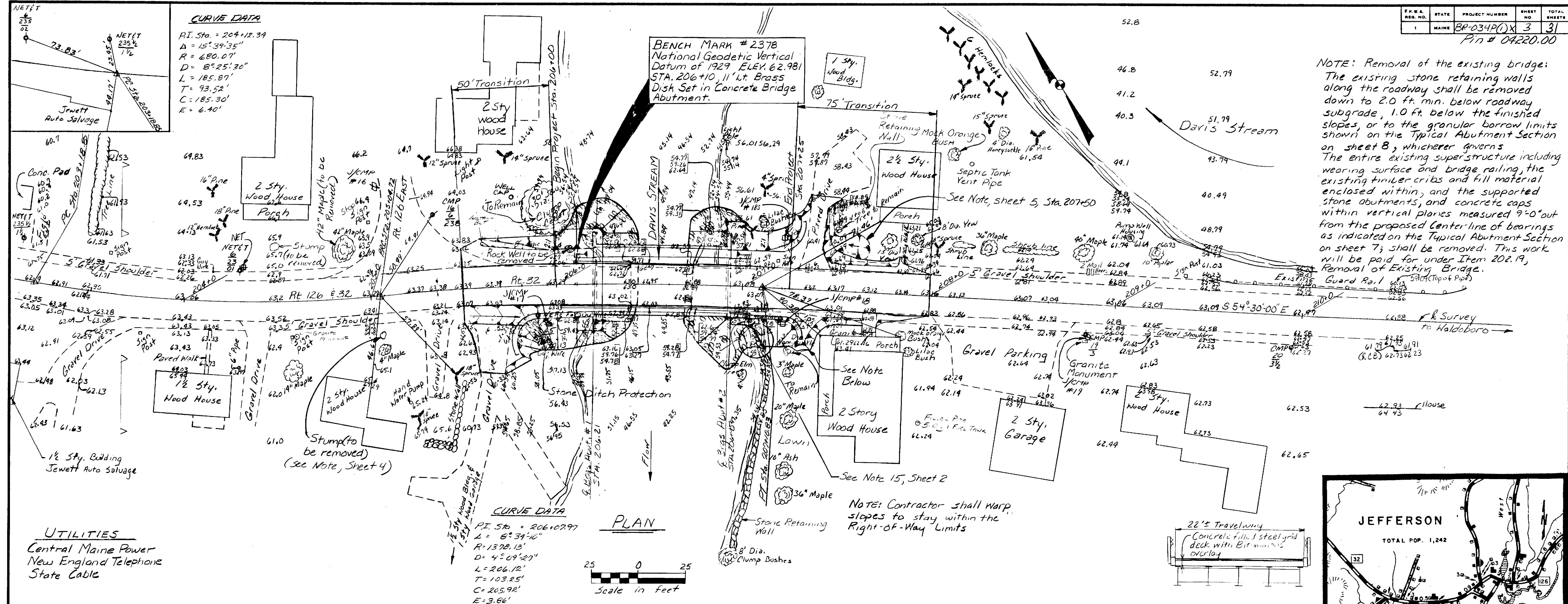
ESTIMATED QUANTITIES

SHEET OF AUGUSTA, MAINE Jan., 1994

CURVE DATA
 P.I. Sta. = 204+12.34
 $\Delta = 15^{\circ}39'35''$
 $R = 680.07'$
 $D = 8^{\circ}25'30''$
 $L = 185.87'$
 $T = 93.52'$
 $C = 185.30'$
 $E = 6.40'$

BENCH MARK # 2378
 National Geodetic Vertical Datum of 1929
 ELEV. 62.981
 STA. 206+10, 11' Lt. Brass Disk Set in Concrete Bridge Abutment.

NOTE: Removal of the existing bridge: The existing stone retaining walls along the roadway shall be removed down to 2.0 ft. min. below roadway subgrade, 1.0 ft. below the finished slopes, or to the granular borrow limits shown on the Typical Abutment Section on sheet 8, whichever governs. The entire existing superstructure including wearing surface and bridge railing, the existing timber cribs and fill material enclosed within, and the supported stone abutments, and concrete caps within vertical planes measured 9'-0" out from the proposed center line of bearings as indicated on the Typical Abutment Section on sheet 7; shall be removed. This work will be paid for under Item 202.19, Removal of Existing Bridge. Guard Rail 5'0" (Top of Pipe)



Bridge # 2378 Survey Book #

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION 104

HOTEL BRIDGE
 OVER
DAVIS STREAM
 IN THE TOWN OF
JEFFERSON
 LINCOLN COUNTY
 GENERAL PLAN AND PROFILE
 SHEET OF AUGUSTA, MAINE

Survey Plotted by RTM 9/1/03

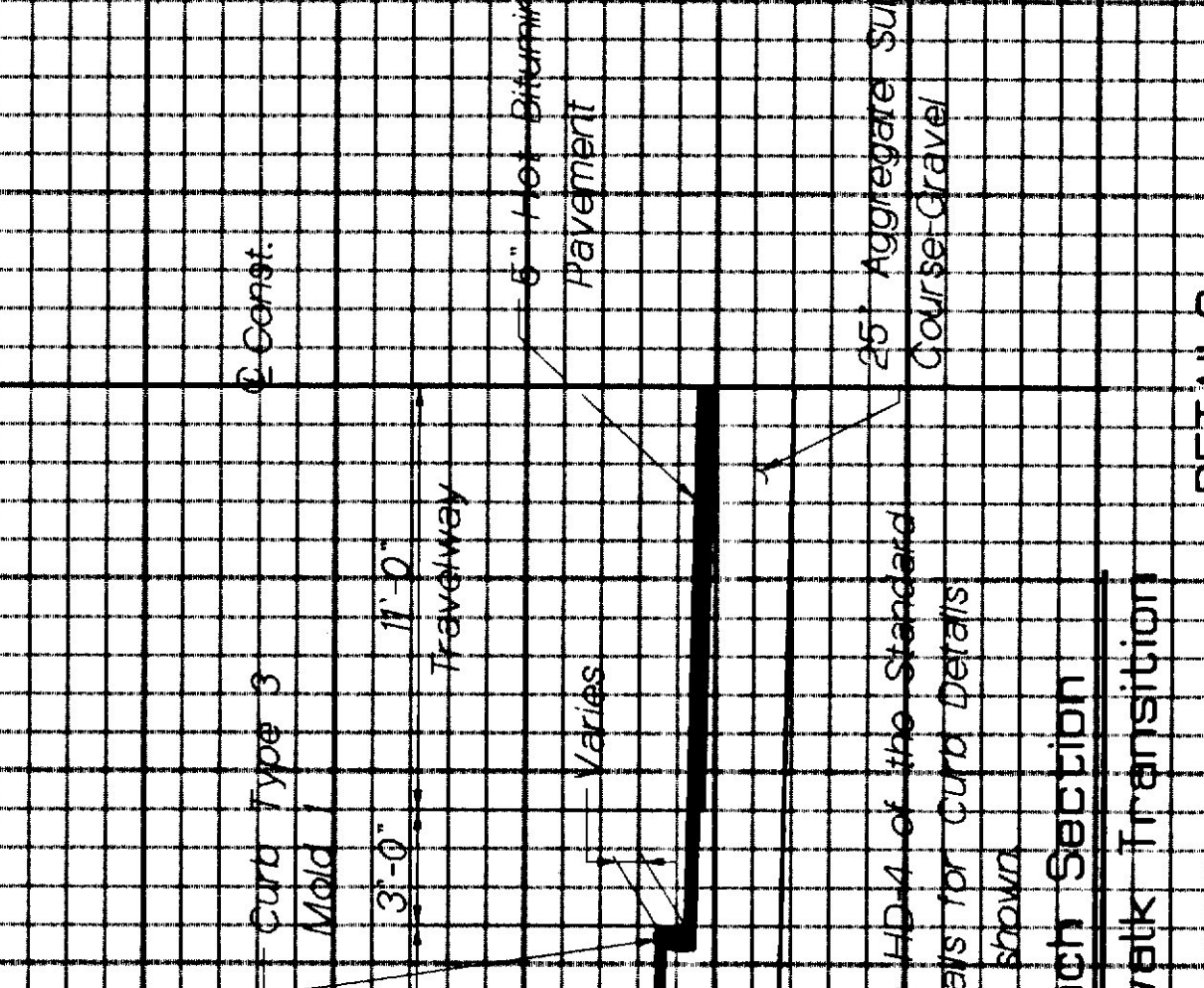
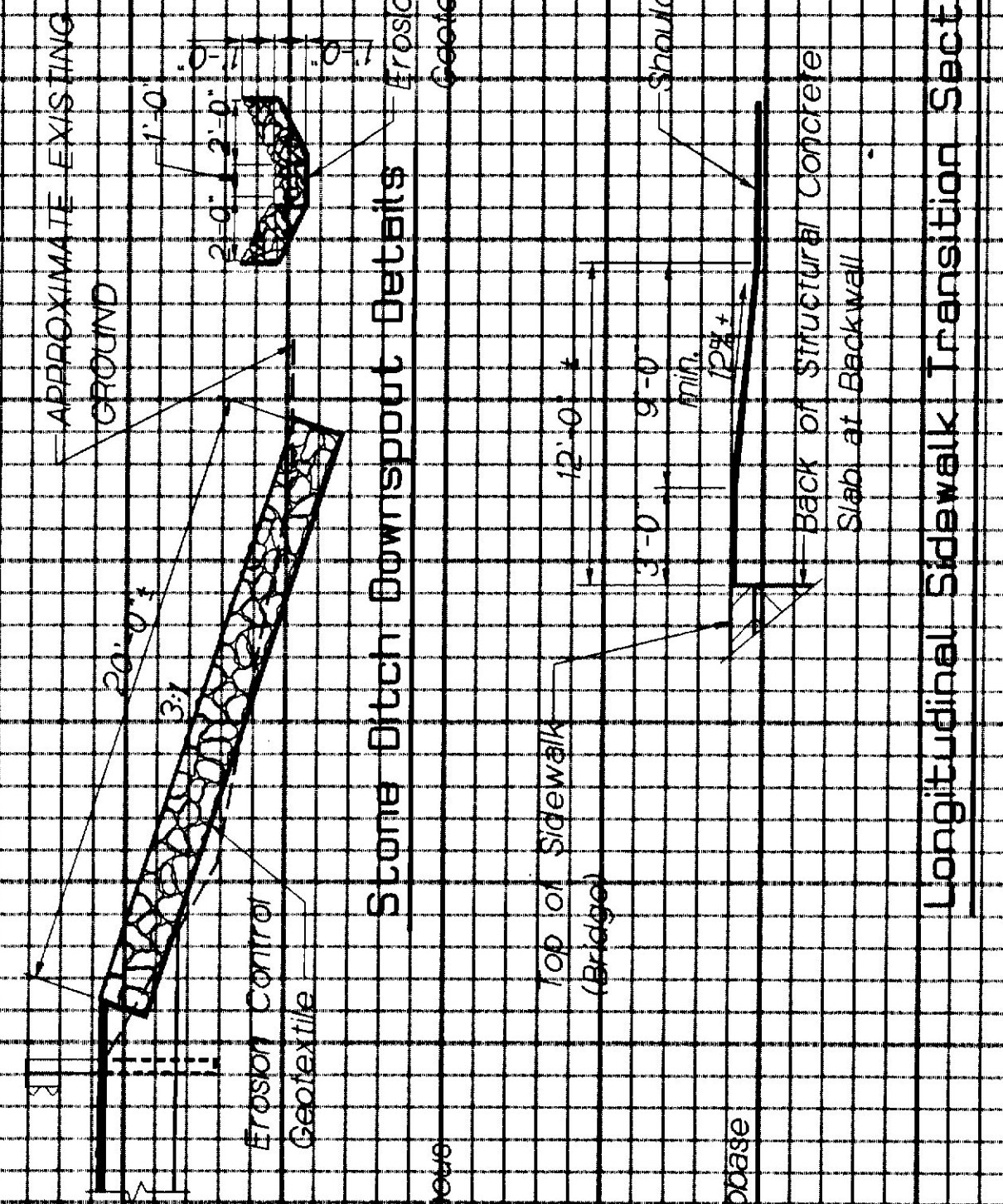
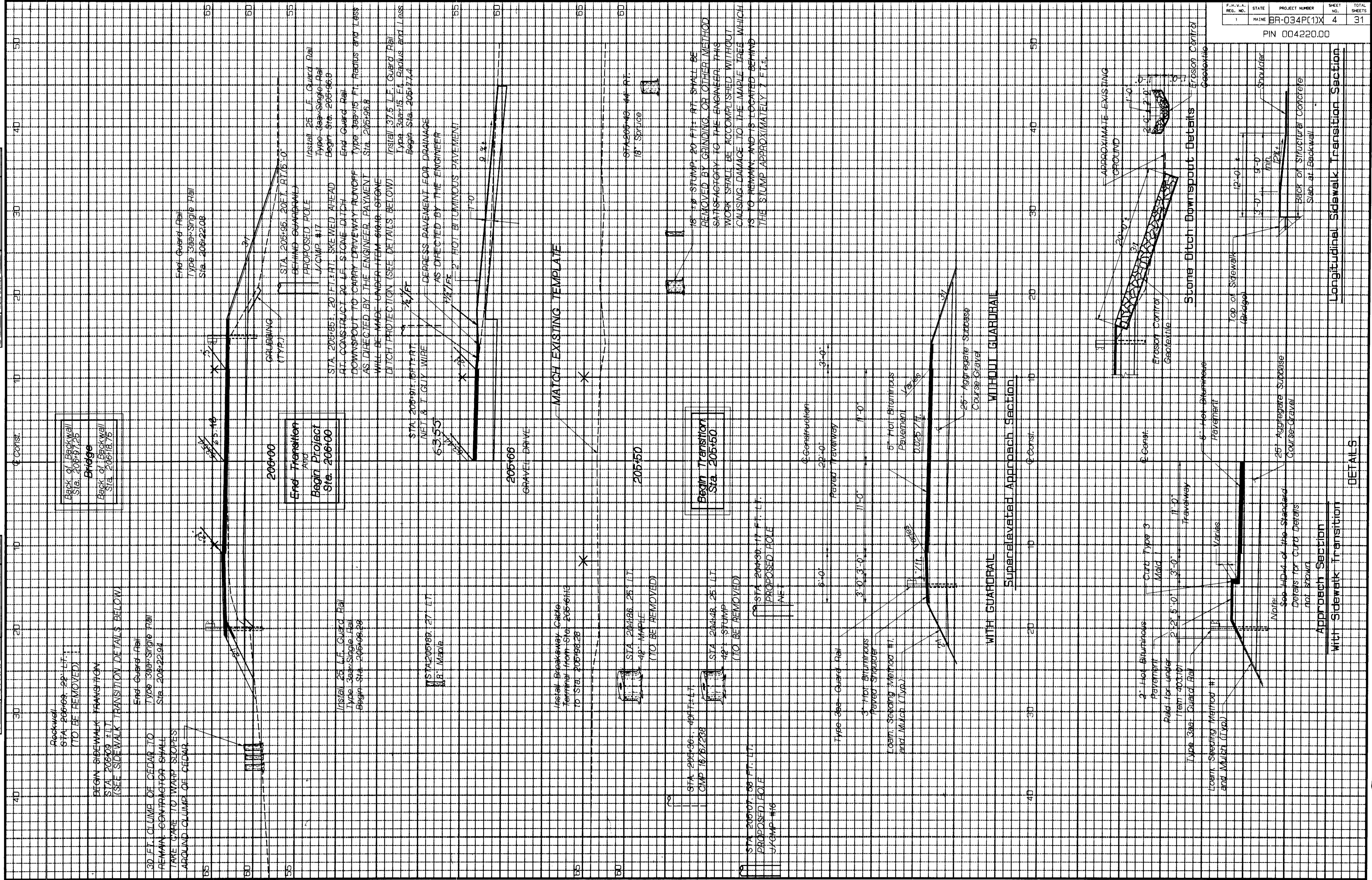
DATE	BY

PROJECT DESIGN ENGINEER
 DESIGN - DETAILED
 CHECKED
 REVISIONS
 FIELD CHANGES

PLANS

DATE	10-83
BY	MKD
ORIGINAL SURVEY	
NOTED	
AREAS CHECKED	

DATE	
BY	
FINAL SURVEY	
NOTED	
AREAS CHECKED	



DETAILS

105

