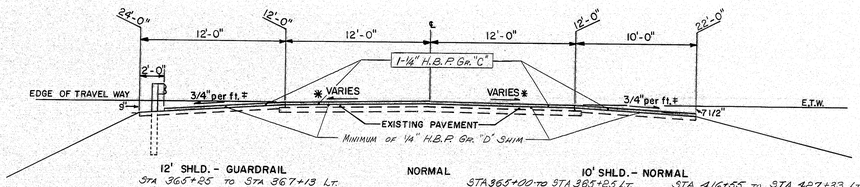
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	RS-R3G-0141(6)	2	28

1-1/2" HOT BITUMINOUS OVERLAY



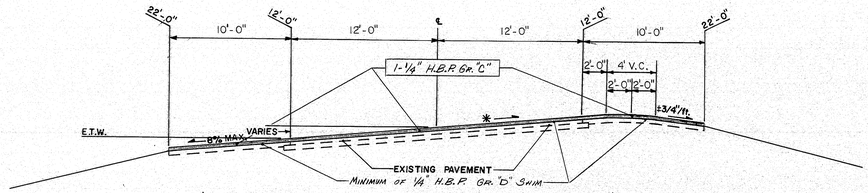
12' SHLD. - GUARDRAIL

STA 365+25	TO	STA 367+13 Lt.
407+58	TO	412+00 Rt.
412+00	TO	414+37 Lt. & Rt.
414+37	TO	416+55 Rt.
437+67	TO	439+50 Rt.
438+35	TO	439+30 Lt.
462+39	TO	463+60 Lt.
463+25	TO	464+39 Rt.

NORMAL

10' SHLD. - NORMAL

STA 365+00	TO	STA 365+25 Lt.
365+00	TO	365+50 Rt.
377+00	TO	392+65 Lt. & Rt.
392+65	TO	394+48 Lt.
394+48	TO	406+50 Lt. & Rt.
406+50	TO	414+00 Lt.
414+37	TO	416+55 Lt.
416+55	TO	STA 427+33 Lt. & Rt.
427+33	TO	428+00 Rt.
437+25	TO	438+35 Lt.
464+00	TO	464+60 Lt.
464+60	TO	464+87 Lt. & Rt.
464+87	TO	465+25 Rt.



10' SHLD. - LOW SIDE

STA 365+50	TO	STA 366+25 Rt.
368+25	TO	377+00 Rt.
428+00	TO	437+50 Rt.
446+07	TO	454+37 Lt.
465+63	TO	473+50 Rt.

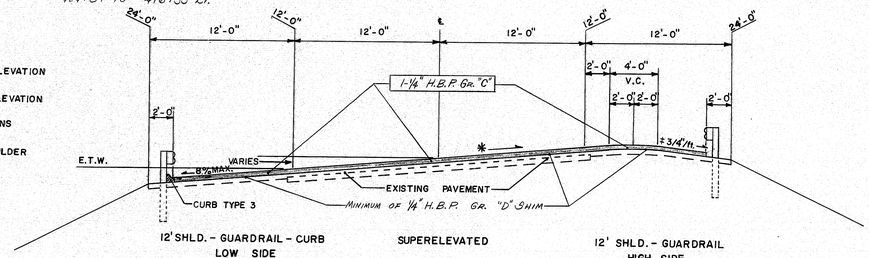
SUPERELEVATED

10' SHLD. - HIGH SIDE

STA 367+38	TO	STA 375+50 Lt.
428+00	TO	437+00 Lt.
446+87	TO	454+86 Rt.
468+35	TO	469+93 Lt.

NOTES

1. *: -1/8" per ft. TO -1/2" per ft. OR AS REQUIRED FOR SUPERELEVATION
2. ‡: -1/4" per ft. TO -3/4" per ft. OR AS REQUIRED BY SUPERELEVATION
3. THE PAVEMENT & BASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
4. WHEN SUPERELEVATION EXCEEDS 3/4"/ft. THE LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE.
5. CROWN FOR NORMAL AND SUPERELEVATED SECTIONS FOR ALL COURSES SHALL BE STRAIGHT.

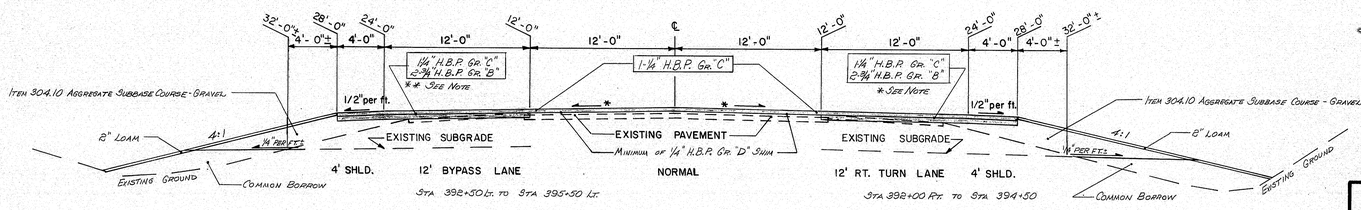


12' SHLD. - GUARDRAIL - CURB
LOW SIDE

STA 366+50	TO	STA 368+00 Rt.
439+30	TO	447+76 Lt.
454+86	TO	456+83 Lt.

SUPERELEVATED

12' SHLD. - GUARDRAIL
HIGH SIDE
STA 440+00 TO STA 446+07 Rt.



4' SHLD. 12' BYPASS LANE
STA 392+50 Lt. TO STA 395+50 Lt.

NORMAL

12' RT. TURN LANE 4' SHLD.
STA 392+00 Rt. TO STA 394+50

** Payment for Removal of 4" Bituminous Macadam Shoulder will be made under Item 203.64, Common Excavation. Any Fine Grading of Exist. Gravel Deemed Necessary by the Engineer Will Not be Paid for Separately and Considered Incidental to Item 304.10.

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN - DETAILED	F.H.W.	Feb.69
CHECKED		
REVISIONS		
FIELD CHANGES		

PLANS

BRUNING 44-152 45710-1

104-103

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CUMBERLAND - YARMOUTH
TYPICAL SECTIONS

SHEET OF AUGUSTA, MAINE

CUMBERLAND - YARMOUTH ROUTE 1

PROJECT NOS. RS-RSG-0141(5) & RS-0141(6)

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	RS-RSG-0141(5)	3	28
		RS-0141(6)		

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.127	REMOVING OF EXISTING BITUMINOUS PAVEMENT (1963SY)	1	L.S.
202.128	REMOVING OF EXISTING CONCRETE - CURBS & SIDEWALKS	1	L.S.
202.14	REMOVING EXISTING RAILINGS - PROPERTY OF CONTRACTOR	555	L.F.
203.20	COMMON EXCAVATION	410	C.Y.
203.24	COMMON BORROW	200	C.Y.
203.25	GRANULAR BORROW	50	C.Y.
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	400	C.Y.
403.07	HOT BITUMINOUS PAVEMENT, GRADING B	275	TON
403.08	HOT BITUMINOUS PAVEMENT, GRADING C	3850	TON
403.10	HOT BITUMINOUS PAVEMENT, GRADING D	2747	TON
403.101	HOT BITUM. PAVT., GRAD. D (SIDEWALKS, SHIMS, DRIVES, ETC.	6	TON
409.15	BITUMINOUS TACK COAT, APPLIED	1070	GAL.
502.42	STRUC CONC ROWAY & SIDEWALK SLABS ON STEEL BRIDGES	39	C.Y.
502.4711	SILICA FUME ADDITIVE	1	L.S.
503.12	REINFORCING STEEL FAB. & DELIVERED	4300	LB.
503.13	REINFORCING STEEL PLACING	4300	LB.
506.142	FIELD PAINTING EXISTING STRUCTURAL STEEL (220,000 lb)	1	L.S.
507.092	ALUMINUM BRIDGE RAILING, 2 BAR	531	L.F.
508.13	MEMBRANE WATERPROOFING (1082 SY)	1	L.S.
515.20	PROTECTIVE COATING FOR CONCRETE SURFACES	23	S.Y.
518.21	REHAB. OF STR. CONCRETE SUBSTRUCTURE	206	S.F.
518.30	REHAB. OF STR. CONCRETE SLAB - TO REINF. STEEL	487	S.F.
518.31	REHAB. OF STR. CONCRETE SLAB - TO BRUSH REINF. STEEL	195	S.F.
520.24	BRIDGE JOINT MODIFICATION	2	EACH
526.301	TEMPORARY CONCRETE BARRIER TYPE I (1000 L.F.)	1	L.S.
603.16	15 INCH CULVERT PIPE OPTION I	12	L.F.
603.17	18 INCH CULVERT PIPE OPTION I	30	L.F.
603.175	18 INCH RCP CLASS III	4	L.F.
603.185	21 INCH RCP CLASS III	108	L.F.
603.195	24 INCH RCP CLASS III	18	L.F.
* ~~603.205~~	~~30 INCH RCP CLASS III~~	~~164~~	~~L.F.~~
603.46	30 INCH RCP CLASS IV	164	L.F.
603.718	REMOVE HEADWALL, EXTEND 15 INCH METAL PIPE	4	EACH
603.721	REMOVING METAL END SECTION	4	EACH
603.723	CUTTING CORRUGATED METAL PIPE	3	EACH
604.249	CATCH BASIN TYPE FG-C	1	EACH
606.17	GUARD RAIL TYPE 3b - SINGLE RAIL	275	L.F.
606.178	GUARD RAIL BEAM	150	L.F.
606.22	GUARD RAIL TYPE 3b - OVER 15 FOOT RADIUS	25	L.F.
606.35	GUARD RAIL DELINEATOR POST	10	EACH
606.351	GUARD RAIL DELINEATOR POST - REMOVE & RESET	20	EACH
606.364	GUARD RAIL, REMOVE, MODIFY & RESET	4753	L.F.
606.3645	GUARD RAIL, REMOVE, AND RESET	1	L.S.
606.367	REPLACE UNUSABLE EXISTING GUARD RAIL POST	10	EACH
606.751	WIDEN SHOULDER FOR BREAKAWAY CABLE TERMINAL	20	EACH
606.77	BREAKAWAY CABLE TERMINAL	20	EACH
609.31	CURB TYPE 3	250	L.F.
610.08	PLAIN RIPRAP	15	C.Y.
610.18	STONE DITCH PROTECTION	15	C.Y.
612.06	BITUMINOUS SEALING - BLACK	30	S.Y.
613.319	TEMPORARY EROSION CONTROL BLANKET	100	S.Y.
615.07	LOAM	150	C.Y.

* CHANGED ON 6 JUNE '89 FROM CLASS III TO IV - PHW

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
616.08	SODDING	80	S.Y.
618.14	SEEDING METHOD NUMBER 2	25	UNITS
619.12	MULCH	27	UNITS
627.61	4 INCH SOLID WHITE PAVEMENT MARKING LINE	28050	L.F.
627.63	4 INCH SOLID YELLOW PAVEMENT MARKING LINE	12150	L.F.
627.64	4 INCH BROKEN YELLOW PAVEMENT MARKING LINE	6600	L.F.
627.67	REMOVING PAVEMENT MARKINGS	250	S.F.
627.68	TEMP. 4 INCH PAINTED PAVT. MARKING LINE, YELLOW OR WHITE	37000	L.F.
629.05	HAND LABOR STRAIGHT TIME	4	M.H.
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	35	HOURS
631.14	GRADER (INCLUDING OPERATOR)	2	HOURS
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	35	HOURS
631.22	FRONT END LOADER (INCLUDING OPERATOR)	2	HOURS
631.32	CULVERT CLEANER (INCLUDING OPERATOR)	16	HOURS
638.01	EMBEDDED WORK IN STRUCTURES	1	L.S.
639.19	FIELD OFFICE TYPE B	1	EACH
639.22	TESTING FACILITIES BITUMINOUS MIXES	1	L.S.
639.23	TESTING FACILITIES CONCRETE	1	L.S.
643.72	TEMPORARY TRAFFIC SIGNAL	1	L.S.
652.33	FLASHING ARROW BOARD	2	EACH
652.31	TYPE I BARRICADE	70	EACH
652.311	TYPE II BARRICADE	30	EACH
652.33	DRUM	40	EACH
652.34	CONE	60	EACH
652.35	CONSTRUCTION SIGNS	1000	S.F.
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	78	C.D.
652.37	WARNING LIGHTS	2	GP.
652.38	FLAGGER	1000	M.H.
656.50	BALED HAY, IN PLACE	6	EACH
656.51	SAND BAG, IN PLACE	6	EACH
658.20	ACRYLIC LATEX COLOR FINISH, GREEN	27	S.Y.
659.10	MOBILIZATION	1	L.S.

SUMMARY OF EXCAVATION AND BORROW

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	10 c.y.	
LOAM SALVAGE IN FILL	186 c.y.	
REMOVAL OF MACADAM SHOULDERS	134 c.y.	
TOTAL COMMON EXCAVATION		330 c.y.

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	99 c.y.	
LOAM SALVAGE IN FILL	38 c.y.	
TOTAL FILL		137 c.y.

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION		330 c.y.
DEDUCTIONS:		
LOAM SALVAGE IN FILL	186 c.y.	
REMOVAL OF MACADAM SHOULDERS	134 c.y.	
(2) TOTAL DEDUCTIONS		320 c.y.
TOTAL AVAILABLE COMMON EXCAVATION (1) minus (2)		10 c.y.
TOTAL AVAILABLE NON-ROCK EXCAVATION		10 c.y.

COMPUTATION OF COMMON BORROW FOR ESTIMATE

TOTAL FILL		137 c.y.
TOTAL AVAILABLE NON-ROCK EXCAV.	10 c.y. x 0.85 = 9 c.y.	
TOTAL AVAILABLE EXCAVATION		9 c.y.
TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION		128 c.y.
COMMON BORROW FOR REGRADING DITCHES		40 c.y.
COMMON BORROW =	168 x 1.15 =	193 c.y.

104-104

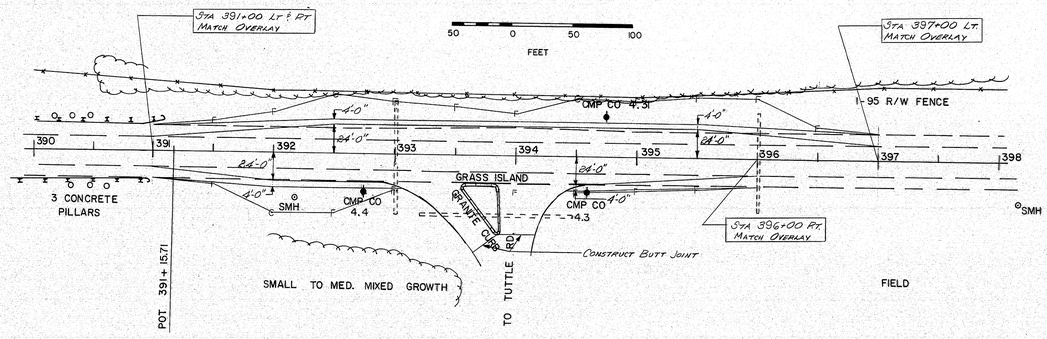
CUMBERLAND - YARMOUTH RTE. 1

BRUNING 44-132 45710-1

283-1 2500

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	RS-RSG-0141(9)	4	88

BYPASS AND RIGHT TURN LANES



ITEM 606.17 Guard Rail Type 3½-Single Rail

Sta 365+25	to	365+50 Lt,	25 L.F.
Sta 389+07	to	389+82 Rt,	75 L.F.
Sta 389+45	to	389+95 Lt,	50 L.F.
Sta 390+32	to	391+38 Rt,	50 L.F.
Sta 390+95	to	391+70 Lt,	75 L.F.
Sta. 454+32	To	454+57 Lt,	25 L.F.

ITEM 606.177 Breakaway Cable Terminal

Sta 365+00	to	365+25 Lt.	
Sta 367+12.5	to	367+37.5 Lt.	
Sta 366+25	to	366+50 Rt.	
Sta 368+00	to	368+25 Rt.	
Sta 388+82	to	389+07 Rt.	
Sta 389+20	to	389+45 Lt.	
Sta 391+32	to	391+57 Rt.	
Sta 391+70	to	391+95 Lt.	
Sta 407+08.59 Rt.	to	407+20.40 Rt.	
Sta 416+50	to	416+75 Rt.	
Sta 411+75	to	412+00 Lt.	
Sta 414+32.5	to	414+62.5 Lt.	
Sta 437+67	to	437+92 Rt.	
Sta 446+07	to	446+32 Rt.	
Sta 438+02	to	438+27 Lt.	
Sta 445+89	to	446+14 Lt.	
Sta 454+07	to	454+32 Lt.	
Rand Sta 18+49	to	18+74 Rt.	
Sta 464+00	to	464+25 Lt.	
Sta 464+39	to	464+64 Rt.	

ITEM 606.751 Widen Shoulder for B.C.T.

Use Station Locations on Item 606.77 B.C.T.

ITEM 606.364 Guard Rail, Remove, Modify and Reset

Sta 365+50	to	367+12.5 Lt,	162.5 L.F.
Sta 366+50	to	368+00 Rt,	150 L.F.
Sta 389+82	to	390+82 Rt,	100 L.F.
Sta 389+95	to	390+95 Lt,	100 L.F.
Sta 407+20.40 Rt	to	407+60 Rt,	37.5 L.F. Attach to Existing
Sta 407+60	to	414+40.50 Rt,	700 L.F.
Sta 414+60.50 Rt.	to	416+50 Rt,	818.5 L.F.
Sta 412+00	to	414+37.5 Lt,	237.5 L.F.
Sta 437+92	to	446+07 Rt,	815 L.F.
Sta 438+87	to	445+89 Lt,	762.5 L.F.
Sta 454+57	to	457+32 Lt,	275 L.F.
Ramp Sta 12+74	to	457+32 Rt,	937.5 L.F.
Sta 460+14	to	464+00 Lt,	387.5 L.F.
Sta 460+40	to	462+80.53 Rt,	237.5 L.F.
Sta 463+20.30 Rt.	to	464+39 Rt,	162.5 L.F.

ITEM 603.16 15" Culvert Pipe, Opt. I

Sta 445+25 Lt 12 L.F.
Sta 464+25 Rt 16 L.F.

ITEM 603.17 18" Culvert Pipe Opt. I

Sta 376+50 Rt.- Drive 30 L.F. (Remove Existing)

ITEM 603.175 18" RCP Class III

Sta 470+31 Lt. 41 L.F. (Remove 4 RCP Section w/ Headwall - Existing)
Sta 470+91 Rt. 14 L.F. (Remove 14 Accmp - Existing)

ITEM 603.185 21" RCP Class III

Sta 365+68 Cross Pipe 108 L.F. (Remove Existing 18"x 110')

ITEM 603.195 24" RCP Class III

Sta 374+58 Rt. 4 L.F. (Remove 4' R.C.P. Section w/ Headwall Existing)

ITEM 603.48 30" RCP Class IV

Sta 366+78 Cross Pipe 164 L.F. (Remove Existing 48"x 158')

ITEM 603.712 Remove Headwall, Extend 15 Metal Pipe

Sta 424+38 Rt.
Sta 424+62 Rt.
Sta 449+79 Rt.
Sta 450+25 Rt.

ITEM 603.721 Removing Metal End Section

Sta 400+53 Lt.
Sta 439+75 Rt.
Sta 444+50 Rt.

ITEM 603.723 Cutting Corrugated Metal Pipe

Sta 400+53 Rt. Remove 4' of 36" CMP
Sta 400+53 Lt. Remove 4' of 36" CMP
Sta 469+35, 39' Rt. Remove 2' of 18" CMP

ITEM 604.249 Catch Basin Type FG-C

Sta 445+25 Lt.

ITEM 609.31 Curb Type 3

Replacement Curb

Sta 443+50 Lt.	to	Sta 444+50 Lt.	100 L.F.
Sta 454+69 Lt.	to	Sta 455+70 Lt.	100 L.F.
Sta 460+40 Rt.	to	Sta 460+75 Lt.	35 L.F.

ITEM 610.08 Plain Riprap

Sta 445+25 Lt. Downspout
Sta 366+80, 30' RCP Crosspipe - at Inlet & Outlet

OPEN THROAT CATCH BASIN LOCATIONS

Sta 388+50 Rt.	
Sta 426+50 Rt.	See Applicable
Sta 468+50 Lt.	General Notes

Concrete Headwall Removal Locations *

Sta 374+58 Rt.	Attached to 24" RCP
Sta 376+38 Rt.	Attached to 18" CMP
Sta 376+68 Rt.	
Sta 470+91 Lt.	Attached to 18" RCP

Repair of Washout on Fill Slope Sta 365+25 Rt. as Directed by the Engineer to be Paid for under Appropriate Hourly Equipment Rental Items. Replacement Material shall be Aggregate Subbase Course-Gravel, Riprap, Stone Ditch Protection, Loam, Seed and Mulch and Paid for under Respective Items.

* All Concrete Headwall Removal at the above Stations will be considered incidental to Item 603.

Sta 454+30 Rt. - Ramp 2 & 463+00 Rt. - Ramp 3 Overlay Ramp and Construct Butt Joint 85' from Edge of Shoulder, Rte. 1.

Sta 455+60 Rt. - Ramp 1 Overlay Ramp and Construct Butt Joint 25' from Curb Bull Nose.

Ditching as Directed by the Engineer to be Paid for under Appropriate Equipment Rental Items.

Anticipated Area of Ditching is:

Sta 394+47 Rt. to Sta 399+85 Rt. 564' Length

Sta 474+30 at 18" ACCMP Location
The Front Slope from the Shoulder to the Pipe End shall be Graded as Directed by the Engineer. Payment shall be made under the Appropriate Hourly Rental Items.

GENERAL NOTES

1. THE UTILITIES INVOLVED IN THIS CONTRACT ARE:

   CENTRAL MAINE POWER COMPANY
   NEW ENGLAND TELEPHONE COMPANY
   PORTLAND WATER DISTRICT
   PUBLIC CABLE TV, INC.

   ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS NOTED.

2. ALL JOINTS BETWEEN EXISTING AND PROPOSED HOT BITUMINOUS PAVEMENTS SHALL BE BUTTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT WILL BE INCIDENTAL TO ITEM 403.

3. A VARIABLE DEPTH SHIM DEPTH SHIM COURSE (ITEM 403.10) SHALL BE APPLIED PRIOR TO PLACING THE 1 1/4" HOT BITUMINOUS PAVEMENT.

4. ANY EXISTING PAVED WIDENINGS TO BE RESURFACED AS DIRECTED.

5. A 3' PAVED LIP SHALL BE PLACED AT ALL GRAVEL ENTRANCES EXCEPT WOODS AND FIELD ENTRANCES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

6. ESTIMATED STRUCTURAL EXCAVATION REQUIRED 540 C.Y..

7. ALL OPEN THROAT CATCH BASINS SHALL HAVE THE THROAT SECTION BRICKED UP TO THE GRATE AND THE DITCH LINE SHALL BE GRADED TO THE CATCH BASIN AS DIRECTED BY THE ENGINEER. THE BRICKING SHALL BE INCIDENTAL TO ITEM 603 AND THE GRADING SHALL BE PAID FOR AS COMMON BORROW.

8. PLACE 12" AGGREGATE SUBBASE COURSE GRAVEL AND HOT BITUMINOUS PAVEMENT GRADING "D" WITH ACRYLIC LATEX COLOR FINISH-GREEN AROUND CATCH BASINS IN GRASSED AREAS (3' OUTSIDE OF FRAME, 2" THICK).

9. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL AND WILL BE PAID FOR AS GRANULAR BORROW.

10. EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR).

11. SOD INLETS AND OUTLETS OF ALL DRIVEWAY CULVERTS UNLESS OTHERWISE DIRECTED.

12. LOAM AREAS SHALL BE SEEDED WITH METHOD NUMBER NO. #2 AND MULCHED UNLESS OTHERWISE NOTED.

13. LOAM HAS BEEN ESTIMATED FOR 100% OF THE FILL SLOPE AREA. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE ENGINEER. LOAM DEPTHS ARE 2" AND ARE CONSIDERED NOMINAL.

14. BREAKAWAY CABLE TERMINALS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARD RAIL.

15. ALL EXISTING TOPSOIL TO A DEPTH OF 6 INCHES WITHIN THE FILL SLOPE AREA FROM STATION 391+00 TO STATION 397+00 SHALL BE CONSIDERED AS LOAM SALVAGE.

TOTAL LOAM REQUIRED	150	C.Y.
ESTIMATED AVAILABLE SALVAGED TOPSOIL	186	C.Y.

16. EXISTING 30' RADIUS GUARD RAIL ENDS AND TERMINAL ENDS REMAINING SHALL BE STOCKPILED FOR PICKUP BY MAINTENANCE DIVISION #6.

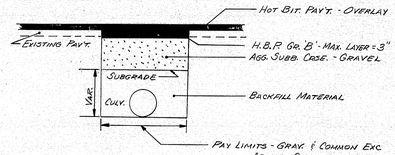
17. ONE GUARDRAIL DELINEATOR POST SHALL BE INSTALLED AT EACH GUARD RAIL END AND AT UNDERDRAIN OUTLET

18. CURB TYPE 3 TO BE INSTALLED WITH MOLD 2 AND SEALED WITH BITUMINOUS SEALING BLACK, WHEN DIRECTED.

19. WHERE DEEMED NECESSARY BY THE ENGINEER, WINTER SAND SHALL BE REMOVED FROM THE EDGES OF SHOULDERS AND DISPOSED OF. PAYMENT WILL BE MADE UNDER THE APPROPRIATE HOURLY RENTAL ITEMS.

20. PLANS AND PROFILE SHEETS OF THE PREVIOUSLY CONSTRUCTED PROJECT FOR THIS PROJECT AREA ARE AVAILABLE ON REQUEST. EXISTING PROJECT IS I-95-4(6).

CULVERT INSTALLATION IN OVERLAY SECTION



104-105

Revised As-Built 3/12/91

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION NOTES
GENERAL NOTES
SPECIAL PLAN DETAILS

SHEET OF AUGUSTA, MAINE

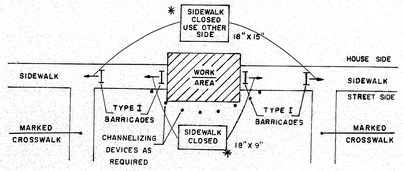
Cumberland - Yarmouth Rte. 1

PROJECT DESIGN ENGINEER	BY	DATE
PLANS — DESIGN - DETAILED		
CHECKED		
REVISIONS		
FIELD CHANGES		

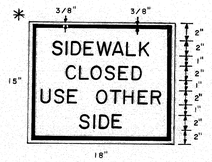
BRUNING 4370-1

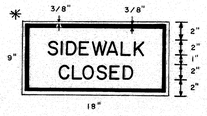
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	RS-RSG-0141(5)	11	28

* NON-REFLECTORIZED WHITE BACKGROUND, BLACK TEXT AND BORDER-2" SERIES C UPPER CASE LETTERS



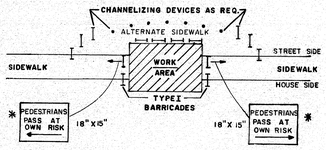
SIDEWALK CLOSURE WITHOUT ALTERNATE SIDEWALK



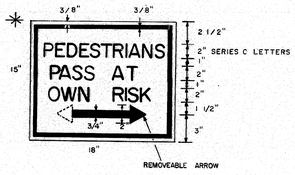


A

* NON-REFLECTORIZED WHITE BACKGROUND, BLACK TEXT AND BORDER-2" SERIES C UPPER CASE LETTERS

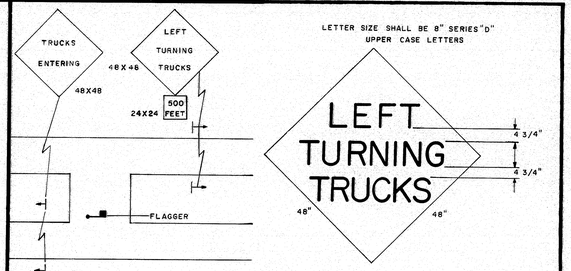


SIDEWALK CLOSURE WITH ALTERNATE SIDEWALK



2" SERIES C LETTERS

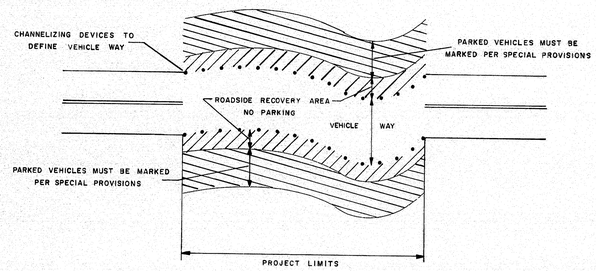
B



MEDIAN CROSSOVER

E

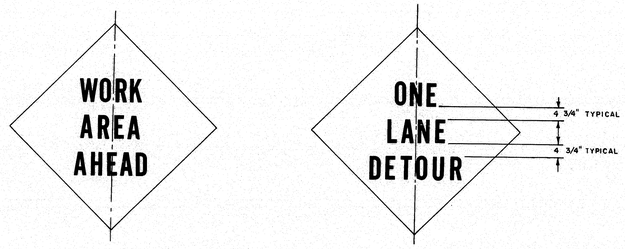
ALL DIMENSIONS AND OTHER REQUIREMENTS AS SPECIFIED IN THE SPECIAL PROVISIONS



ROADSIDE RECOVERY AREA

C

CONSTRUCTION WARNING SIGN DETAIL



1. Letter size shall be 8" Series 'D'.
2. Border dimensions and legend design shall conform to "Standard Highway Signs".

D

PROJECT DESIGN ENGINEER

PLANS	BY	DATE
DESIGN - DETAILED		
CHECKED		
REVISIONS		
FIELD CHANGES		

JANUARY 1969

GENERAL NOTES

1. Distances shown for sign placement are nominal, exact locations shall be determined by the Engineer.
2. Grades on temporary roadways through the construction zone used by the public shall not exceed 10 percent.
3. Advisory speed consistant with prevailing conditions shall be as determined by the Engineer.
4. Use shaded signs when specified in the Special Provisions.
5. The length of tapers shall be determined from the following formulae:

   If S is equal to or less than 40 MPH
   $L = (W \times S \times S) / 60$

   If S is equal to or greater than 45 MPH
   $L = WS$

   Where:

   L = taper length in feet
   S = operating speed in MPH
   W = width of roadway to be closed in feet

   Taper lengths shall be rounded to the nearest five feet.

   It may be required to extend lane closure tapers to provide a smooth transition where geometric alignment reduces sight distance.
6. The maximum longitudinal spacing of channelizing devices shall conform to the following:
   (a) 50 feet through work areas
   (b) A distance in tapers equal to the numerical value of the operating speed, i.e., 45 MPH = 45 feet
   (c) In all areas not covered above maximum spacing shall be as follows:

Radius of curve	Spacing
50' to 300'	25'
301' to 700'	50'
701' to 1000'	75'
over 1000'	5 times the operating speed

   The maximum transverse spacing in tapers shall be determined from the following formula:

   $D = (W \times S) / L$

   Where:

   D = transverse spacing in feet
   W = width of roadway to be closed in feet
   L = taper length in feet
   S = operating speed in MPH

7. BORDER DIMENSIONS AND LEGEND DESIGN SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS BOOKLET.

104-106

3-4-80	GENERAL NOTES
4/3/80 PF	A,B,C,GN

REVISIONS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

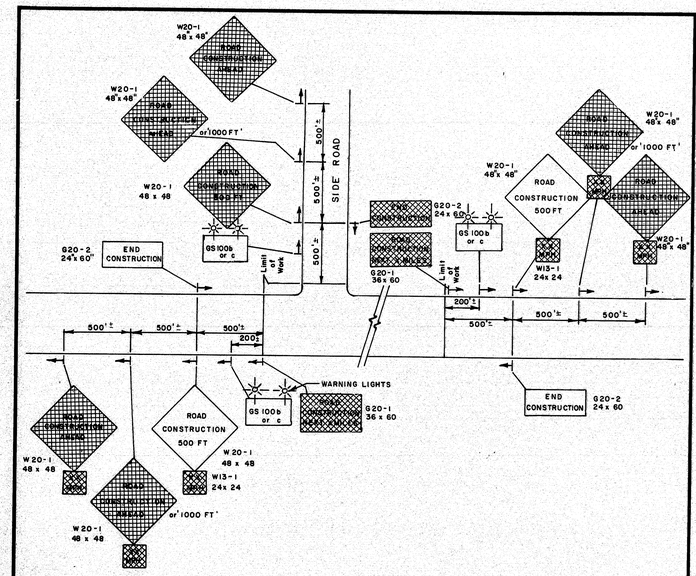
MAINTENANCE OF TRAFFIC IN CONSTRUCTION ZONES

SHEET OF AUGUSTA, MAINE (HD - 10)

884 8886

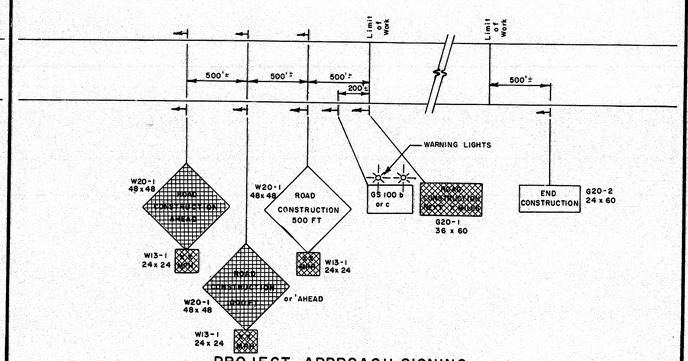
CUMBERLAND - YARMOUTH RTE. 1

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	RS-RSG-0141(6)	12	28



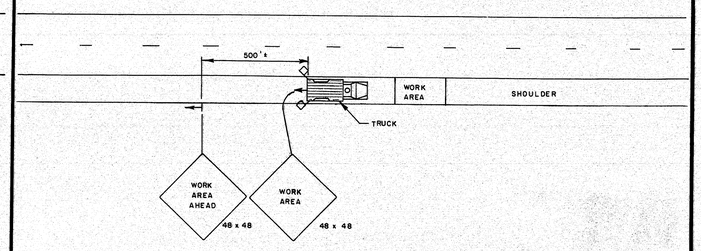
PROJECT APPROACH SIGNING
Two Way Traffic

A



PROJECT APPROACH SIGNING
Expressway

B



SHOULDER WORK - MOBILE

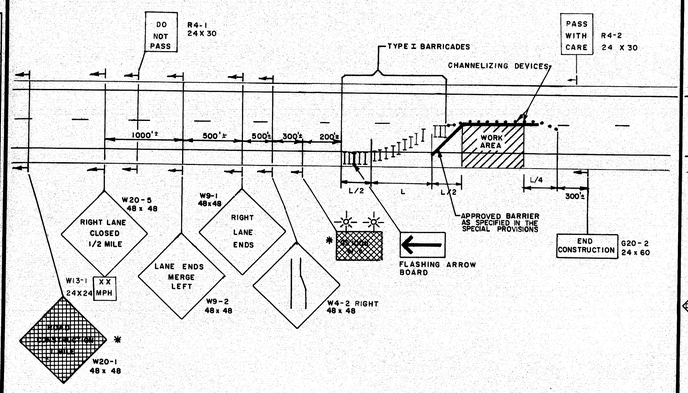
C

NOTE

* OMIT W20-1 AND GS-100 C OR B IF LANE CLOSURE SIGNING ARRAY IS WITHIN PROJECT LIMITS.

ALTER PAVEMENT MARKINGS AS REQUIRED. MAINTAIN 15 FT LATERAL CLEARANCE.

USE SIMILAR SIGNING FOR LEFT LANE CLOSURE.



EXPRESSWAY LANE CLOSURE

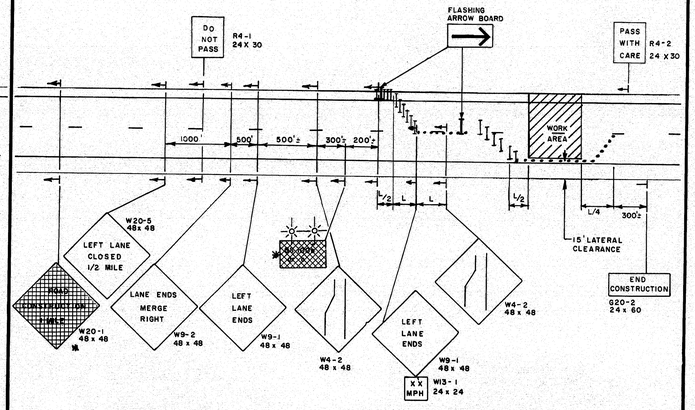
D

NOTE

W20-1 AND GS-100B OR C SHALL BE USED ONLY WHEN THE CLOSURE IS THE ACTUAL CONSTRUCTION PROJECT AND NOT A PART THEREOF.

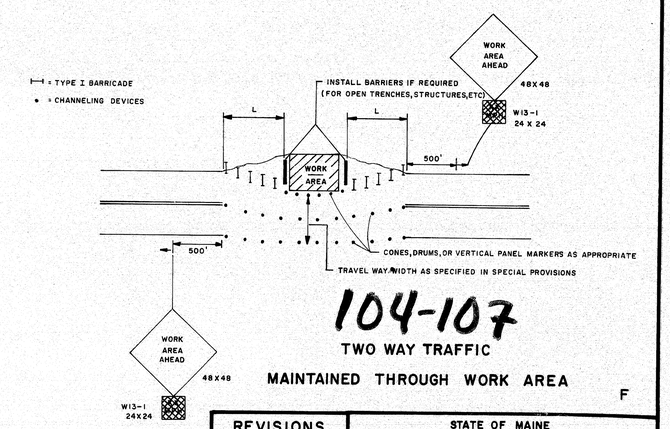
ALTER PAVEMENT MARKINGS AS NECESSARY.

USE SIMILAR SIGNING FOR RIGHT LANE CLOSURE.



TWO LANE CLOSURE - UTILIZING RIGHT SHOULDER

E



104-107

TWO WAY TRAFFIC

MAINTAINED THROUGH WORK AREA

F

DATE	BY	PROJECT DESIGN ENGINEER
		DESIGN - DETAILED
		CHECKED
		REVISIONS
		FIELD CHANGES

PLANS

REVISIONS	
1-28-80	
3-4-80	PLATE "F"
4/3/80 PF	D,E

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

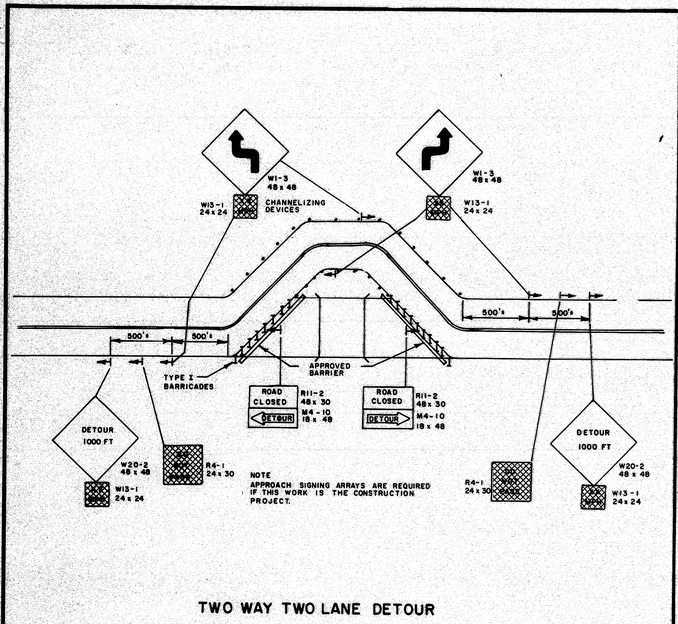
MAINTENANCE
OF
TRAFFIC
IN CONSTRUCTION ZONES

SHEET OF AUGUSTA, MAINE (HD - 11)

JANUARY 1968

CUMBERLAND - YARMOUTH RTE. 1

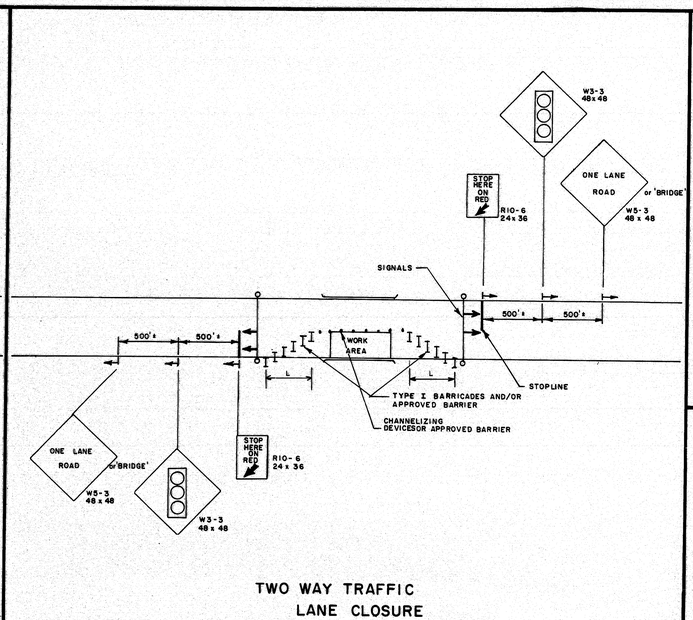
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	RS-RSG-01416(1)	13	28



NOTE
APPROACH SIGNING ARRAYS ARE REQUIRED IF THIS WORK IS THE CONSTRUCTION PROJECT.

TWO WAY TWO LANE DETOUR

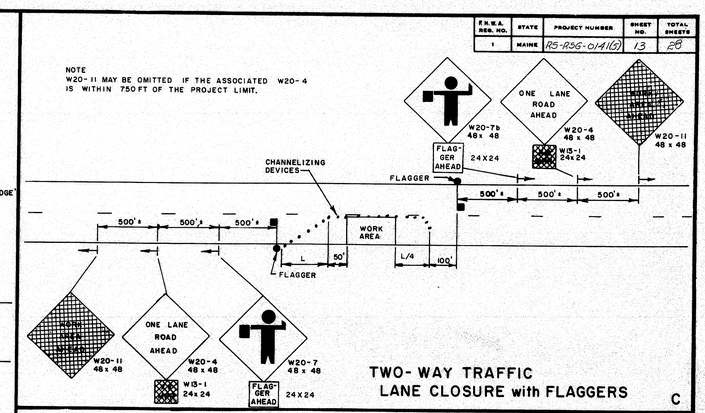
A



TWO WAY TRAFFIC
LANE CLOSURE
WITH TEMPORARY TRAFFIC SIGNALS

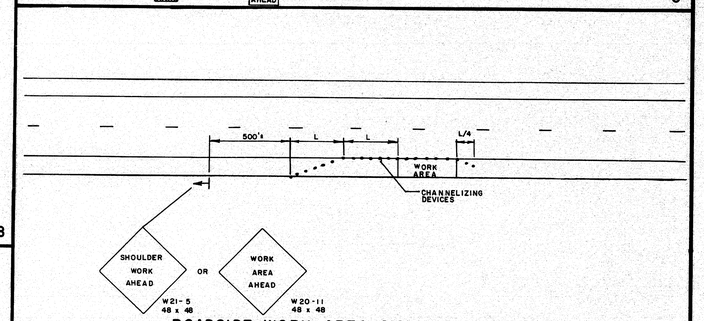
B

NOTE
W20-11 MAY BE OMITTED IF THE ASSOCIATED W20-4 IS WITHIN 750 FT OF THE PROJECT LIMIT.



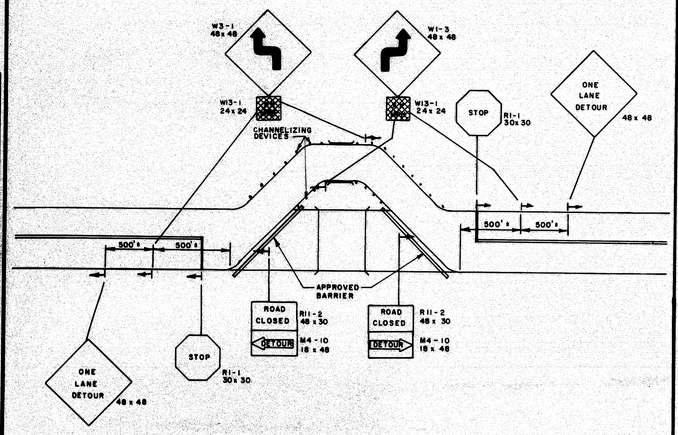
TWO- WAY TRAFFIC
LANE CLOSURE with FLAGGERS

C



ROADSIDE WORK AREA SIGNING

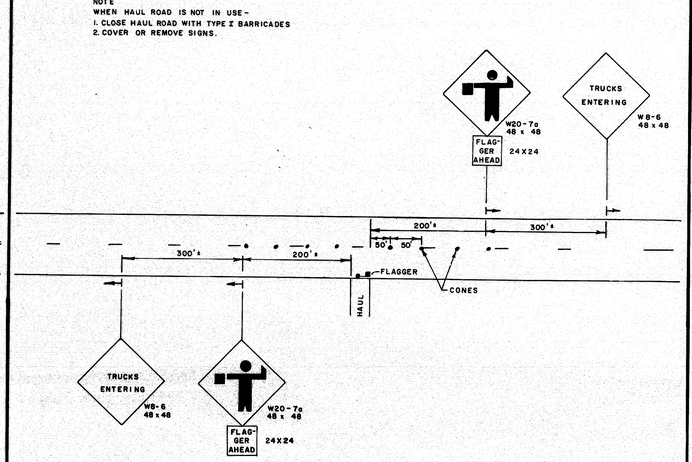
D



ONE WAY DETOUR

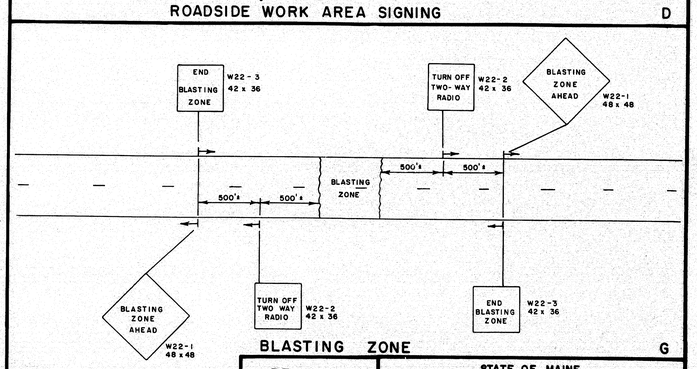
E

NOTE
WHEN HAUL ROAD IS NOT IN USE -
1. CLOSE HAUL ROAD WITH TYPE I BARRICADES
2. COVER OR REMOVE SIGNS.



HAUL ROADS

F



BLASTING ZONE

G

NOTE
SIMILAR SIGN SEQUENCE SHALL BE ERECTED ON ALL SIDE ROADS WITHIN 1000FT OF THE BLASTING ZONE.

104-108

PROJECT DESIGN ENGINEER	BY	DATE
PLANS	DESIGN - DETAILED	
	CHECKED	
	REVISIONS	
	FIELD CHANGES	

REVISIONS	
4/3/80 PF	B, C, D

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

MAINTENANCE
OF
TRAFFIC
IN CONSTRUCTION ZONES

SHEET OF AUGUSTA, MAINE (HD - 12)

CUMBERLAND - YARMOUTH RTE. 1

Sta. 365+00 to 366+73

℄

lot-lot

Cumberland Yarmouth

P.A.W.N.	ON YOR	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	1	MAINE	125-R96-014AB	15	28

Sta. 365+28
Install 61 x 106' RCP Class III
Remove Existing 18" CMP
Drop Inlet & Connect

18" CMP

Sta. 366+23
Install 39" x 164' RCP Class IV
Remove Existing 28" CMP
Drop Inlet & Connect

28" CMP Skewed 64° LT

ORIGINAL SURVEY		
SURVEYED	Sullivan & Crew	11-87
NOTE BOOK	DRAFTED	1-88
TEAM A'T		
AREAS		
AREAS CHECKED		
NO	BY	DATE

FINAL SURVEY		
SURVEYED		
PLOTTED		
TEAM A'T		
NOTE BOOK		
AREAS		
AREAS CHECKED		
NO	BY	DATE

3

P. W. & T. REQ. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	RS-RSG-0141(3)	16	28

FINAL SURVEY
NO. _____
NOTE BOOK _____
SURVEYED _____ BY _____ DATE _____
PLOTTED _____
TEMPLATE _____
AREAS CHECKED _____

ORIGINAL SURVEY
NO. _____
NOTE BOOK _____
SURVEYED Highland Crew 12-87
PLOTTED _____
TEMPLATE _____
AREAS CHECKED _____

BRUNING 44-322 7/1283

Sta. 390+50 to Sta. 391+50

104-110

Cumberland Yarmouth

Cumberland Yarmouth

III-101

Sta. 392+00 to Sta. 393+50

℄

392+00 — 26

6'

392'± — 4:1 — 24" DIA. PORT MTL. I SOUTH — ℄ FERRY — ℄ FRANCE — 26'±

+18 — 26 — Sewer MH A1

+30 — 26

49'± — 49'± — ℄ FERRY

Cover

393+00 — 26

24" CMP — Rock Guy — CMP POLE #44 — 24'± — TOP — FL

+21 — 26 — End CMP A1

30'± — 30'± — TOP — FL

+50 — 26

BRUNING 44-232 77283

ORIGINAL SURVEY		BY	DATE
SURVEYED		WILLIAMSON CLARK	10-87
PLOTTED		D. ROSSBACH	1-88
NOTE BOOK			
TEMPLATE			
AREAS			
NO	AREAS CHECKED		

FINAL SURVEY		BY	DATE
SURVEYED			
PLOTTED			
NOTE BOOK			
TEMPLATE			
AREAS			
NO	AREAS CHECKED		

STATE NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	150-X96-0141(8)	17	28

104-112

Cumberland Yarmouth

St. 394+00 & St. 396+00

℄

394+00 75

+00 75 SMH AY

393+00 75

+50 75

392+00 75

396+00 Rt. MATCH OVERLAY

PROJECT NUMBER	RS-HSS-0(141)1	SHEET NO.	8
STATE	MAINE	TOTAL SHEETS	28
F.A. OR P.A. (STATE USE)			

ORIGINAL SURVEY			
NOTE BOOK	SURVEYED	CLIMOSKI & CREW	DATE 1-28
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		
NO.		BY	DATE

FINAL SURVEY			
NOTE BOOK	SURVEYED		DATE
	PLOTTED	BY	
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

BRUNING 44-232 71283

104-113

Cumberland Yarmouth

Sta. 396+50 to Sta. 398+50

℄

5'

396+50 25

scale: 1"=10'

Sta 397+00 Lt
Match Doorway

397+00 25

+50 25

398+00 26

SMH RR

+16 25

+50 25

BRUNING 44-232 7 1/2 R3

ORIGINAL SURVEY		BY	DATE
SURVEYED		SILVERWOOD & CROSSON	12-67 1-68
PLOTTED			
NOTE BOOK	TEMPLATE		
NO	AREAS CHECKED		

FINAL SURVEY		BY	DATE
SURVEYED			
PLOTTED			
NOTE BOOK	TEMPLATE		
NO	AREAS CHECKED		

STATE PROJECT NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
	MAINE	RS-R26-0441(0)	19	28

Sta 443+50 to Sta 446+00

Cumberland Yarmouth

Ha-101

443+50	130			
		444+00	130	
				130
				130
		446+00	130	

Culvert - 36" Dia. RCP

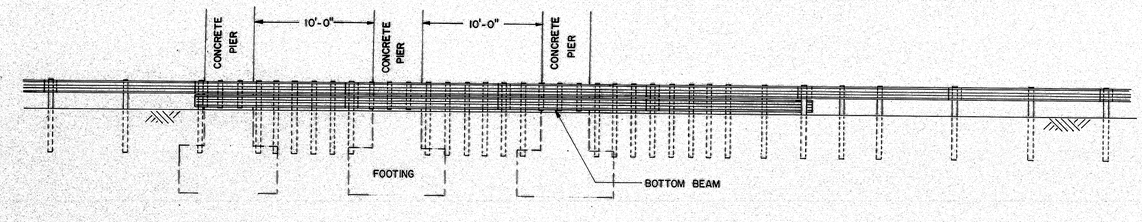
Sta 443+25 Lt.
Install Catch Basin, Type F6-C;
15 s.l.c. Curb Pipe Option I and
Riprap Downspout

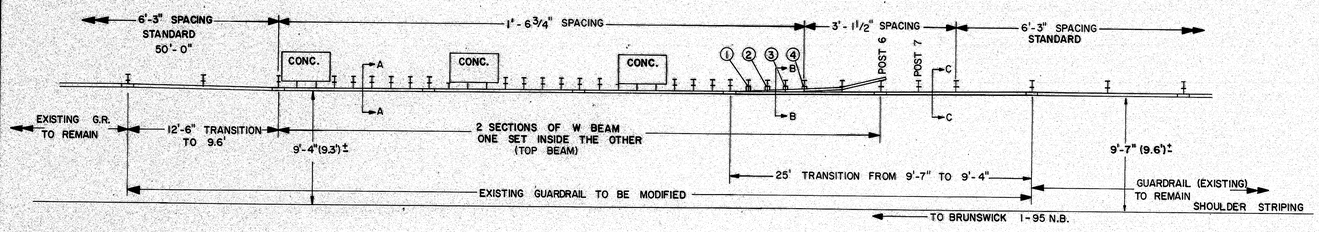
443+50	130			
		444+00	130	
				130
				130
		446+00	130	

Culvert - 36" Dia. RCP

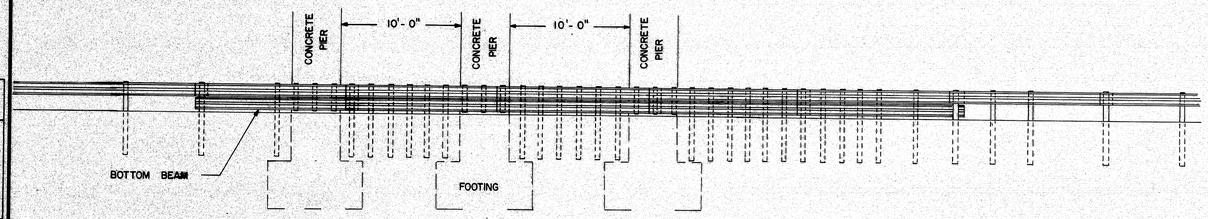
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	RS-RSS-0141(6)	21	28

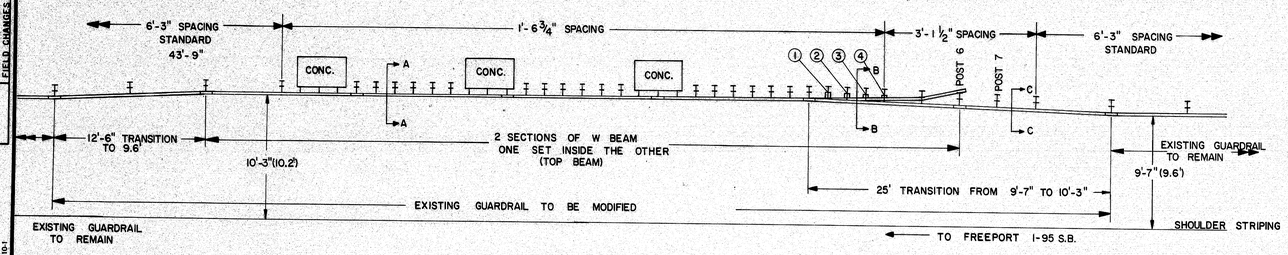
DURHAM ROAD OVERPASS, BRUNSWICK



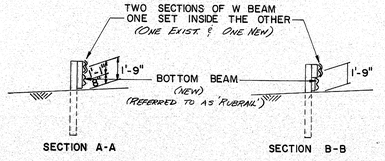


NORTHBOUND PIER 3





SOUTHBOUND PIER 1



BOTTOM BEAM WOOD BLOCKS
1'-2" x 4 1/2"

POST	THICKNESS *
①	5"
②	4"
③	3"
④	2"

* Thickness is measured from the back of the bottom rail to the face of the post.

NOTES:

1. BOTTOM BEAM BLOCKS ARE OFFSET DRILLED TO SIT SQUARELY ON THE POST FLANGE. BLOCKS ARE ATTACHED WITH 5/8" CARRIAGE BOLTS.
2. THE RUBRAIL MAY BE SHOP BENT IN THE LAST 3 FEET TO FACILITATE INSTALLATION.
3. POSTS 1, 2, 3, 4 AND 6 REQUIRE AN ADDITIONAL HOLE TO ATTACH LOWER BLOCKS AND/OR LOWER BEAM.
4. AT POST 7, BACK-UP PLATE BOLTED TO BLOCK ONLY.
5. OFFSET BRACKETS WITH LENGTH 2' - 4" ARE TO BE USED THROUGHOUT THE DOUBLE BEAM SECTION WITH THE EXCEPTION BEING IN THE TRANSITION WHEN WOODBLOCKS ARE INSTALLED.
6. OFFSET BRACKETS ONLY WILL BE BOLTED TO THE RAIL WHEN IN FRONT OF THE PIER; POSTS WILL NOT BE SET IN FRONT OF THE PIER COLUMNS.
7. OFFSET BRACKETS ARE TO BE DIRECTLY CENTERED ON THE COLUMNS OF BAYVIEW STREET OVERPASS PIER; DIMENSIONS AS TO SPACING ARE INCLUDED ON THE DETAIL.
8. ALL POSTS FOR THE BAYVIEW STREET LOCATION SHALL BE NEW AND 7'-0". THE EXISTING POSTS AT THIS LOCATION MAY BE USED TO PROVIDE CLOSER POST SPACING ON ROUTE 1 GUARD RAIL LOCATIONS OR AT THE DURHAM ROAD LOCATION.
9. IF GUARD RAIL POSTS, WHEN DRIVEN, CONFLICT WITH THE TOP OF EXISTING PIER FOOTINGS, THE TOP OF THE POST SHALL BE CUT AS DIRECTED BY THE ENGINEER SUCH THAT IT WILL BE 28" ABOVE FINISHED GRADE. PAYMENT FOR CUTTING POSTS WILL BE CONSIDERED INCIDENTAL TO ITEM 603.3645.
10. ALL ADDITIONAL HARDWARE REQUIRED TO COMPLETE THE INSTALLATIONS SHALL BE AS PER THE SPECIAL PROVISIONS, STANDARD SPECIFICATIONS, AND STANDARD DETAILS.

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN - DETAILED	R.H.W.	MAR'89
CHECKED		
REVISIONS		
FIELD CHANGES		

PLANS

DRAWING 4710-1

104-115

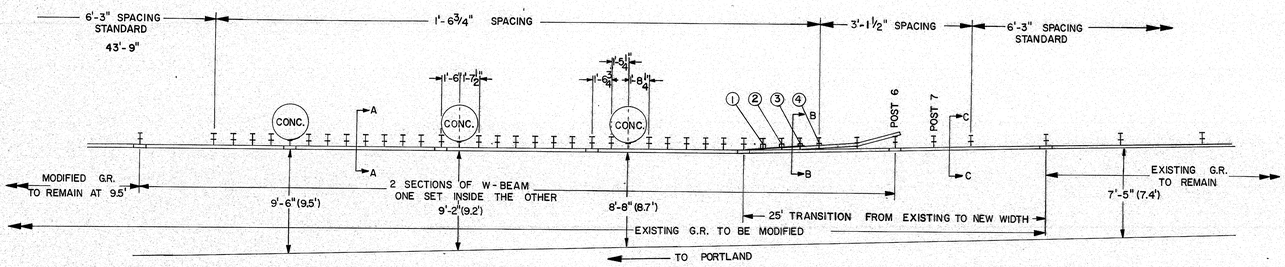
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

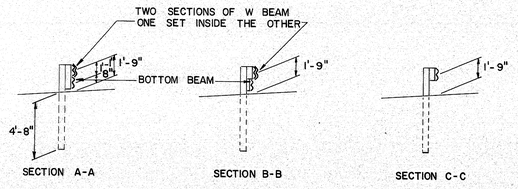
SPECIAL GUARDRAIL DETAILS
DURHAM ROAD
OVER I-95

SHEET OF AUGUSTA, MAINE

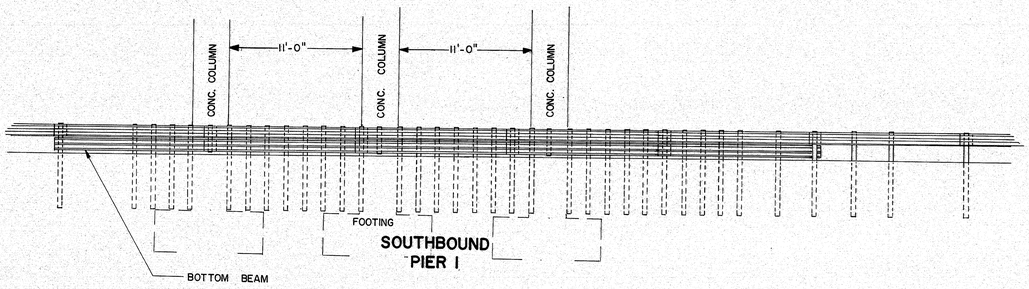
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	BS-RSG-0141(5)	22	28

BAYVIEW STREET OVERPASS, YARMOUTH





SEE GUARDRAIL DETAIL, DURHAM ROAD FOR NOTES AND BOTTOM BEAM WOOD BLOCK WIDTHS.



PROJECT DESIGN ENGINEER	BY	DATE
PLANS — DESIGN - DETAILED		
CHECKED		
REVISIONS		
FIELD CHANGES		

BRUNING 427101

104-116

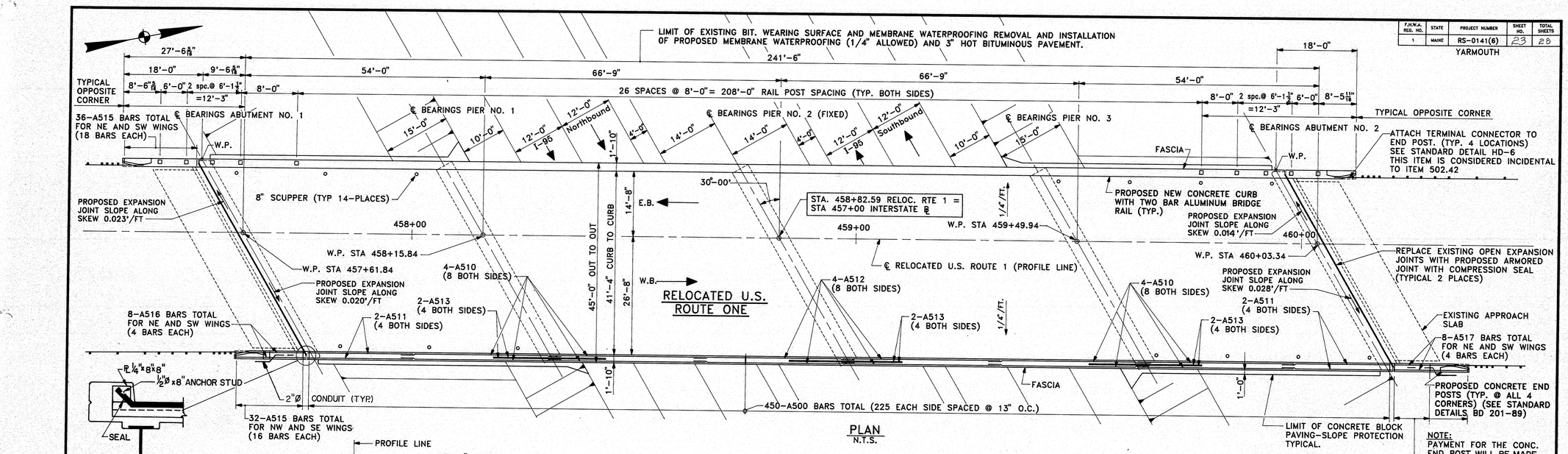
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

SPECIAL GUARDRAIL DETAILS
BAYVIEW STREET
OVER I-95

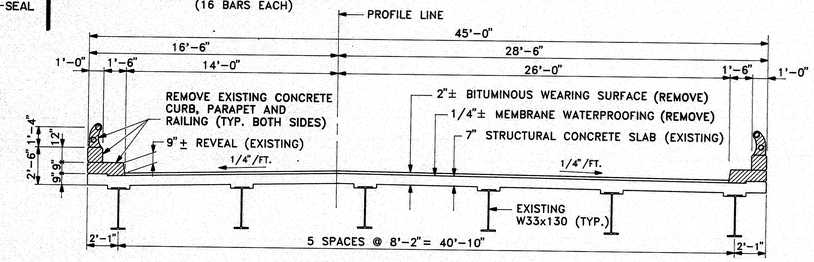
SHEET OF AUGUSTA, MAINE

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	RS-0141(6)	23	29

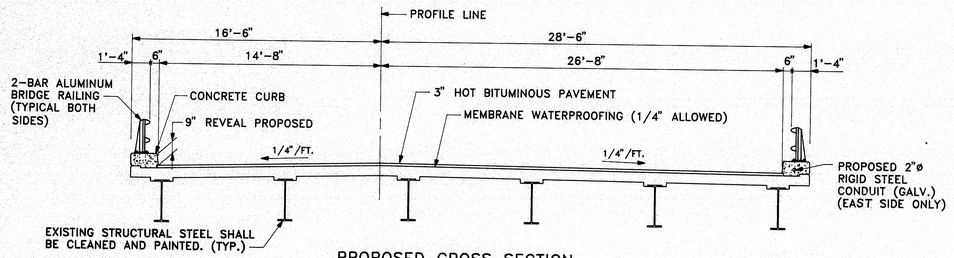
YARMOUTH



PLAN
N.T.S.



EXISTING CROSS SECTION OF DECK
N.T.S.



PROPOSED CROSS SECTION
N.T.S.

SYMBOLS

EXISTING CONCRETE TO BE REMOVED

NEW CONCRETE

TEMPORARY SIGNALS

THE TEMPORARY SIGNAL CONTROLLER SHALL BE A TWO - PHASE PRETIMED CONTROLLER. IT SHALL OPERATE AS SHOWN TO THE RIGHT.

SEQUENCE OF OPERATION

INTERVAL	1	2	3	4	5	6	1
HEADS							
NB	G	Y	R	R	R	R	G
SB	R	R	R	G	Y	R	Y
TIMING 70 SECOND DIAL	17	3	15	17	3	15	

WHERE
G=GREEN
Y=YELLOW
R=RED

SCOPE OF WORK

- REMOVE AND REPLACE EXISTING BITUMINOUS CONCRETE WEARING SURFACE AND MEMBRANE WATERPROOFING WITH A PROPOSED MEMBRANE WATERPROOFING (1/4" ALLOWED) AND 3" HOT BITUMINOUS PAVEMENT.
- CLEAN AND PAINT EXISTING STRUCTURAL STEEL INCLUDING BEARINGS.
- REPLACE EXISTING OPEN ARMORED JOINTS WITH PROPOSED ARMORED JOINT WITH COMPRESSION SEAL.
- REPLACE EXISTING SUBSTANDARD CONCRETE CURB AND ALUMINUM BRIDGE RAIL SYSTEM WITH PROPOSED 1'-10" WIDE CONCRETE CURBS AND STANDARD 2-BAR ALUMINUM RAIL.
- REHABILITATE CRACKED, SPALLED, OR OTHERWISE DETERIORATED CONCRETE ON ABUTMENTS AND TOP OF CONCRETE BRIDGE DECK, AS DIRECTED BY THE ENGINEER.
- RESET SLOPE PAVING AS DIRECTED BY THE ENGINEER THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SUBSECTION 104.03, EXTRA WORK.

INDEX OF SHEETS

GENERAL PLAN 1
DETAILS AND ESTIMATE OF QUANTITIES. . 2
REINFORCING STEEL SCHEDULE 3

BRIDGE STANDARD DETAILS

BD 401-89 - ALUMINUM BRIDGE RAILING
BD 201-89 - CONCRETE END POSTS
BD 301-89 - EXPANSION DEVICE

HIGHWAY STANDARD DETAILS

HD-6 - TYPE 3 GUARD RAIL

SPECIFICATION

DESIGN: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 1983 AND INTERIM SPECIFICATIONS THRU 1988.

CONTRACT: STATE OF MAINE, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES, REVISION OF JULY 1988.

DESIGN LOADING

LIVE LOAD (EXISTING) . . . . . H20-S16-44 MODIFIED

MATERIALS

CONCRETE: . . . . . CLASS A
REINFORCING STEEL: . . . . . ASTM A615 GRADE 60
STRUCTURAL STEEL: . . . . . ASTM A36

BASIC ALLOWABLE STRESSES

CONCRETE: . . . . . f'c= 1200 psi
REINFORCING STEEL: . . . . . fy=24,000 psi
STRUCTURAL STEEL: . . . . . Fy=18,000 psi

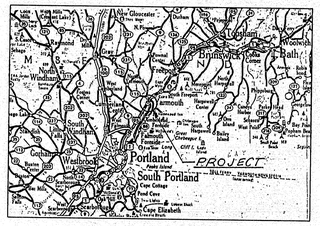
TRAFFIC DATA

AADT 1987 7,280
AADT 2007 14,560
DESIGN HOURLY VOLUME 1,602
PERCENT TRUCKS 5
DIRECTIONAL DISTRIBUTION (%) 80
DESIGN SPEED (MPH) 50
18 KIP EQUIVALENT P2.5 118

PLANS OF THE EXISTING BRIDGE 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.

UTILITIES

CENTRAL MAINE POWER CO.



LOCATION MAP

SCALE 0 5 10 15 MILES

104-117

DATE	BY	DESIGN - DETAILED	CHECKED	REVISIONS	FINAL DRAWINGS
	JEB				

PROJECT ENGINEER

PLANS

Pin No. 2804.00
Bridge No. 5804

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

Kimball Chase
ONE CATE STREET
PORTSMOUTH, N.H. 03801
(603) 431-2520

RELOCATED U.S. ROUTE 1
over
INTERSTATE-95
YARMOUTH, MAINE
CUMBERLAND COUNTY
GENERAL PLAN

SHEET 1 OF 3 AUGUSTA, MAINE

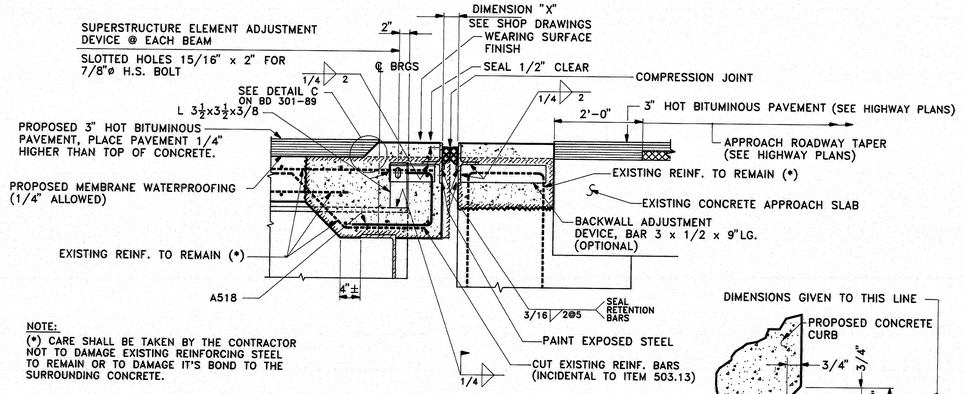
REVISED AS-BUILT 1990 by TSSB 3/92

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	RS-0141(6)	24	28

YARMOUTH

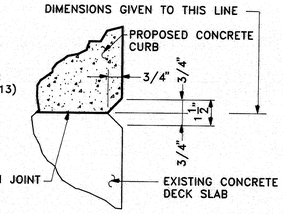
ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.127	REMOVING OF EXISTING BITUMINOUS PAVEMENT	1	L.S.
202.128	REMOVING OF EXISTING CONCRETE–CURBS & SIDEWALKS	1	L.S.
202.14	REMOVING OF EXISTING RAILINGS– PROPERTY OF CONT.	555	L.F.
403.10	HOT BITUMINOUS PAVEMENT, GRADING D	247	TON
502.42	STRUCT. CONC. RDWY & SIDEWALK SLAB ON STEEL BRIDGES	39	CY
502.4711	SILICA FUME ADDITIVE	1	L.S.
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	4300	lbs.
503.13	REINFORCING STEEL, PLACING	4300	lbs.
506.142	FIELD PAINTING EXISTING STRUCTURAL STEEL	1	L.S.
507.092	ALUMINUM BRIDGE RAILING, 2 BAR	531	L.F.
508.13	MEMBRANE WATERPROOFING	1	L.S.
515.20	PROTECTIVE COATING FOR CONCRETE SURFACE	23	S.Y.
518.21	REHAB. OF STRUCTURAL CONCRETE SUBSTRUCTURE	206	S.F.
518.30	REHAB. OF STRUCT. CONC. SLAB TO REINFORCING STEEL	487	S.F.
518.31	REHAB. OF STRUCT. CONC. SLAB TO BELOW REINF. STEEL	195	S.F.
520.24	BRIDGE JOINT MODIFICATION	2	EA
526.301	TEMPORARY CONCRETE BARRIER TYPE I	1	L.S.
627.61	4 INCH SOLID WHITE PAVEMENT MARKING LINE	500	L.F.
627.63	4 INCH SOLID YELLOW PAVEMENT MARKING LINE	500	L.F.
627.67	REMOVING PAVEMENT MARKING	250	S.F.
627.68	TEMP 4" PAINTED PAVE MARKING LINE, WHITE OR YELLOW	500	L.F.
638.01	EMBEDDED WORK IN STRUCTURE	1	L.S.
639.19	FIELD OFFICE TYPE B	.4	EA
639.23	TESTING FACILITIES CONCRETE	1	L.S.
643.72	TEMPORARY TRAFFIC SIGNAL	1	L.S.
652.30	FLASHING ARROW BOARD	2	EA
652.31	TYPE I BARRICADE	50	EA
652.311	TYPE II BARRICADE	10	EA
652.33	DRUM	10	EA
652.34	CONE	40	EA
652.35	CONSTRUCTION SIGNS	500	S.F.
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	30	CD
652.37	WARNING LIGHTS	2	GP
652.38	FLAGGER	300	MH
659.10	MOBILIZATION	.4	L.S.



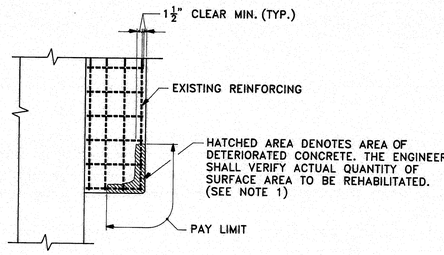
PROPOSED EXPANSION JOINT DETAIL

(SEE STANDARD SHT. BD 301-89 FOR DETAILS NOT SHOWN)



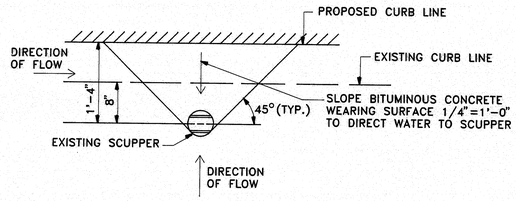
TYPICAL V-CUT DETAIL

N.T.S.



TYPICAL ABUTMENT REHABILITATION – PLAN

N.T.S.



DRAINAGE MODIFICATION DETAIL

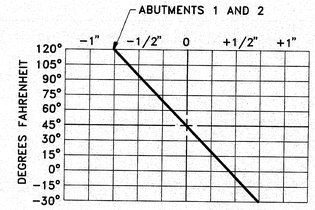
N.T.S.

SUPERSTRUCTURE NOTES

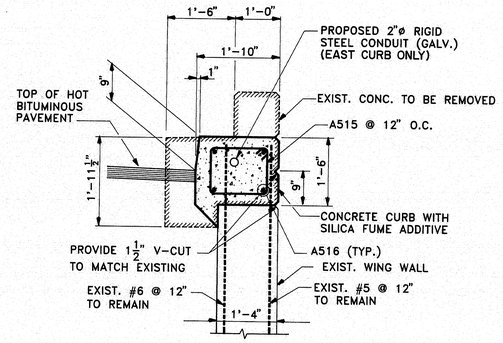
1. THE SEALS TO BE FURNISHED SHALL HAVE A MINIMUM MOVEMENT RATING OF:
   ABUTMENT NUMBER 1: 1.50 INCHES
   ABUTMENT NUMBER 2: 1.50 INCHES
2. THE SEAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION OF THE JOINT ARMOR.
3. THE JOINT OPENING WILL VARY DEPENDING ON THE DIMENSIONS OF THE SEAL SELECTED BY THE CONTRACTOR. THE JOINT OPENING SHALL BE SET ACCORDING TO THE OPENING SHOWN ON THE APPROVED SHOP DETAIL DRAWINGS.
4. THE COMPRESSION SEAL ADJUSTMENT CHART SHOWS THE ADJUSTMENT NECESSARY FOR THE JOINT OPENING SHOWN ON THE SHOP DETAIL DRAWINGS FOR TEMPERATURES OTHER THAN 45°F. ADJUSTMENT IS TO BE MEASURED PARALLEL TO THE CENTERLINE OF CONSTRUCTION.
5. JOINT ARMOR SHALL BE FABRICATED AND DELIVERED TO THE SITE IN THREE (3) SECTIONS. INSTALLATION OF JOINT ARMOR SHALL BE PERFORMED TO ALLOW ONE LANE, 2-WAY TRAFFIC OVER THE BRIDGE DURING CONSTRUCTION. THE THREE SECTIONS OF JOINT ARMOR ARE TO BE WELDED IN THE FIELD TO PRODUCE ONE CONTINUOUS SECTION. WELDS ARE TO BE GROUND SMOOTH AND PAINTED PRIOR TO COMPRESSION SEAL INSTALLATION.
6. COMPRESSION SEALS SHALL BE INSTALLED IN ONE CONTINUOUS LENGTH EXTENDING THE FULL WIDTH OF THE BRIDGE LESS 12 INCHES FROM THE OUTSIDE OF EACH FASCIA. SPLICING OF THE COMPRESSION SEAL IS NOT ALLOWED. A TEMPORARY INTERRUPTION OF TRAFFIC IS ANTICIPATED TO FACILITATE THE INSTALLATION.

NOTES

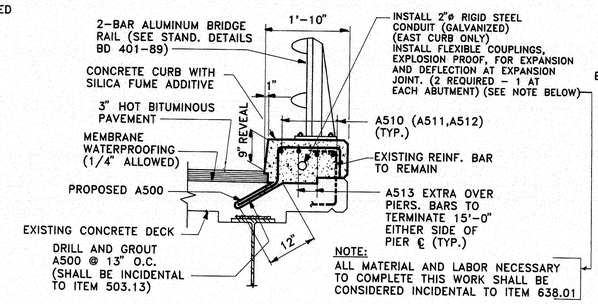
1. IF THE DEPTH OF DETERIORATED CONCRETE EXTENDS TO THE REINFORCING BARS, THEN REMOVE CONCRETE TO A MINIMUM DEPTH OF 1" BEYOND THE REINFORCING STEEL.
2. AFTER THE EXISTING BITUMINOUS PAVEMENT HAS BEEN REMOVED, THE CONTRACTOR MAY BE DIRECTED BY THE ENGINEER TO REHABILITATE AREAS OF THE DECK. PAYMENT WILL BE MADE UNDER ITEMS 518.30 OR 518.31 WHICHEVER IS APPLICABLE.
3. PROPOSED REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2" UNLESS OTHERWISE INDICATED.
4. PROTECTIVE COATING FOR CONCRETE SURFACES SHALL BE APPLIED TO ALL EXPOSED SURFACES OF CONCRETE PATCHING AND THE IMMEDIATE SURROUNDING AREA AS DIRECTED BY THE ENGINNER.



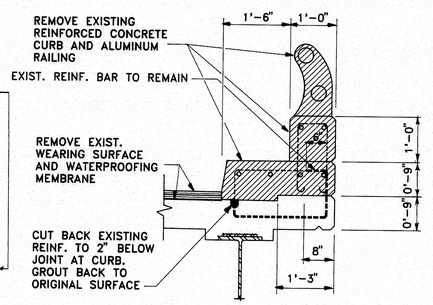
COMPRESSION SEAL ADJUSTMENT CHART



RETURN WING MODIFICATIONS



PROPOSED CURB SECTION



EXISTING CURB SECTION

PROJECT DESIGN ENGINEER — DESIGN– DETAILED — CHECKED — REVISIONS — FIELD CHANGES — BY — DATE

PLANS

Pin No. 2804.00
Bridge No. 5804

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

Kimball Chase — ONE CATE STREET, PORTSMOUTH, N.H. 03801, (603) 431-2520

RELOCATED U.S. ROUTE 1
over
INTERSTATE–95
YARMOUTH, MAINE
CUMBERLAND COUNTY
DETAILS & EST. OF QUANTITIES

SHEET 2 OF 3 AUGUSTA, MAINE

104-118

REVISED AS BUILT 1990 by [illegible] 3/92

REINFORCING STEEL SCHEDULE

STRAIGHT BARS

MARK	NO.	LENGTH	LOCATION
SUPERSTRUCTURE			
A510	16	36'–0"	HORIZ. CURB
A511	8	23'–0"	HORIZ. CURB
A512	8	33'–9"	HORIZ. CURB
A513	12	30'–0"	HORIZ. CURB
A516	8	15'–6"	HORIZ. RETURN WING
A517	8	17'–0"	HORIZ. RETURN WING
END POST			
EP400	24	2'–0"	
EP405	24	1'–10"	

MARK	NO.	LENGTH	LOCATION

MARK	NO.	LENGTH	LOCATION

BENT BARS

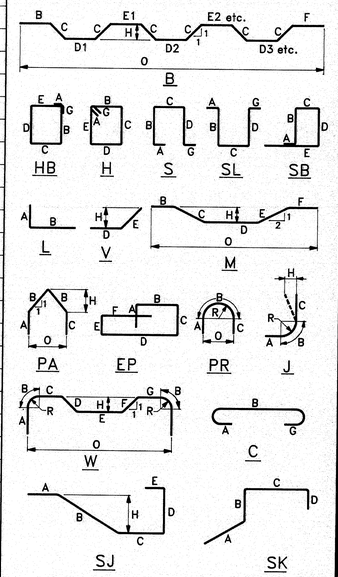
MARK	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
SUPERSTRUCTURE														
A500	450	3'–10½"	SK	1'–0"	0'–10"	1'–6"	0'–6½"	——	——	——	——	——	——	VERTICAL CURB
A515	68	6'–1"	H	0'–5½"	1'–2"	1'–5"	1'–2"	1'–5"	——	0'–5½"	——	——	——	RETURN WING
A518	106	2'–3"	S	0	0'–6"	0'–6"	1'–3"	——	——	0	——	——	——	EXPANSION JOINTS
END POST														
EP401	16	4'–11"	S	0	2'–0"	0'–11"	2'–0"	——	——	0	——	——	——	
EP402	8	4'–6"	S	0	2'–0"	0'–6"	2'–0"	——	——	0	——	——	——	
EP500	16	7'–10"	S	0	5'–6"	0'–7"	1'–9"	——	——	0	——	——	——	
EP501	16	6'–8"	SJ	0	3'–1"	2'–7"	1'–0"	0	——	——	0'–8"	——	——	
EP502	16	4'–7"	S	0	1'–10"	0'–11"	1'–10"	——	——	0	——	——	——	
EP503	8	4'–2"	S	0	1'–10"	0'–6"	1'–10"	——	——	0	——	——	——	

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION

F.A.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	RS-0141(6)	25	28

YARMOUTH

TYPE–BENDING DIAGRAMS



ALL DIMENSIONS ARE OUT TO OUT OF REINF. BAR

BENDING DETAILS AND HOOKS SHALL CONFORM TO THE RECOMMENDATIONS OF THE CURRENT REVISION OF ACI STANDARD 318.

REINFORCING BAR: ASTM A615 GRADE 60

GENERAL NOTES

1. FIRST DIGIT(S) FOLLOWING THE LETTER OF THE MARK INDICATES SIZE OF REINF. BAR.

   MARK (A502) BAR SIZE–#5
   MARK (P1001) BAR SIZE–#10
   MARK (S603) BAR SIZE–#6

2. EACH TRUSS BAR, TYPE B, MAY BE REPLACED BY TWO (2) STRAIGHT BARS (ONE TOP & ONE BOTTOM) OF THE SAME BAR SIZE AS THE TRUSS BAR. PAYMENT IN EITHER CASE SHALL BE BASED ON TRUSS BARS AS SCHEDULED ON PLANS.

Pin No. 2804.00
Bridge No. 5804

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RELOCATED U.S. ROUTE 1
over
INTERSTATE–95
YARMOUTH, MAINE
CUMBERLAND COUNTY
REINFORCING STEEL SCHEDULE

SHEET 3 OF 3 AUGUSTA, MAINE

PROJECT DESIGN ENGINEER	BY	DATE
PLANS DESIGN– DETAILED	JEB	
CHECKED		
QUANTITIES		
FIELD CHANGES		

104–119