

SCARBOROUGH  
SO. PORTLAND

# STATE OF MAINE STATE HIGHWAY COMMISSION



## SCARBOROUGH - SOUTH PORTLAND CUMBERLAND COUNTY MAINE FEDERAL AID-INTERSTATE PROJECT NO. 1-295-3(44)45 TOTAL LENGTH 1.231 MILES GRADING, DRAINAGE and BASE PROJECT

PLANS 1 IN. = 50 FT.  
PROFILES HORIZ. 1 IN. = 50 FT.  
CROSS SECTIONS VERT. 1 IN. = 5 FT.  
OR AS SHOWN

BUILT 1971

Reel 174

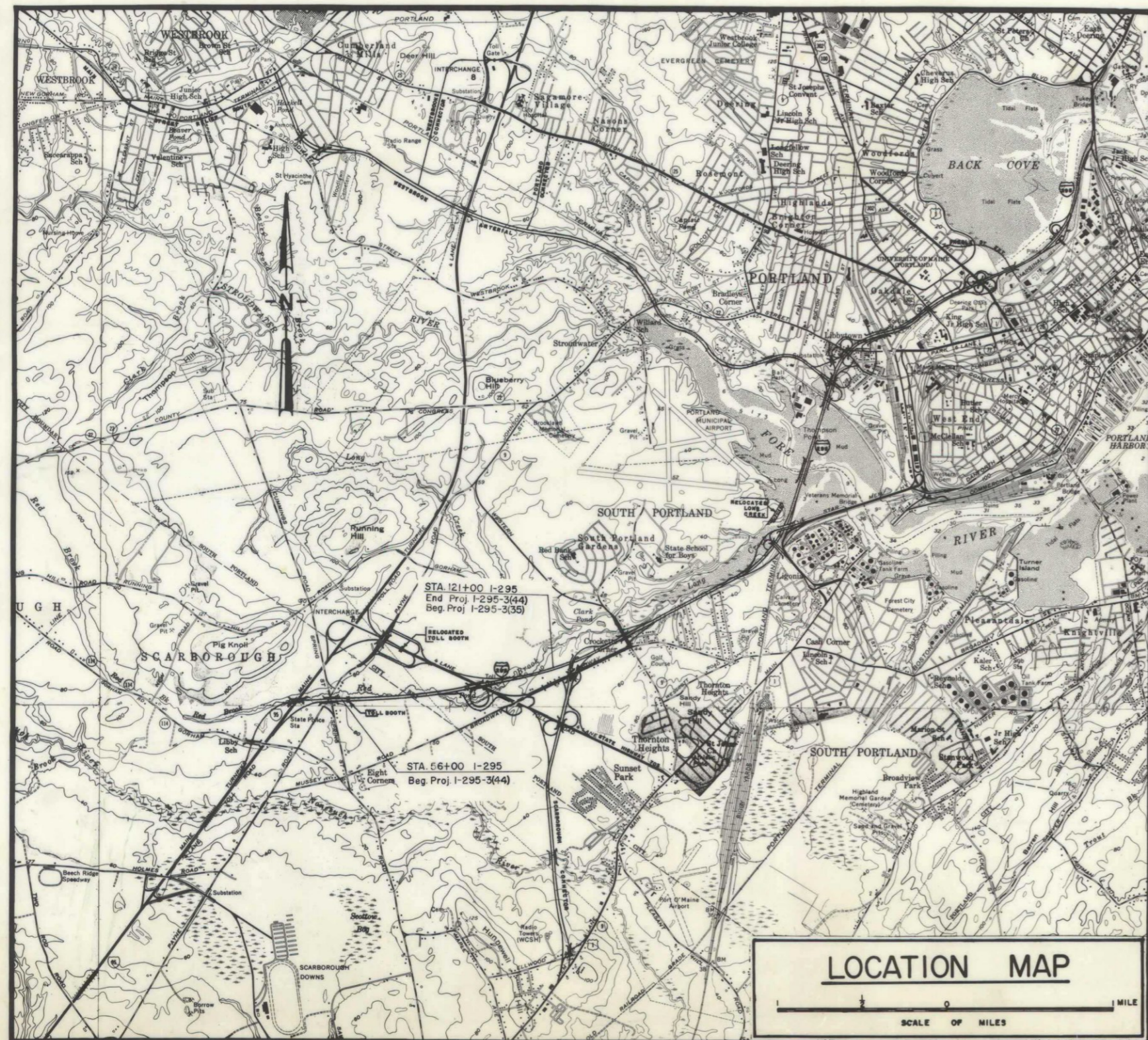
Bridge Maintenance

### CONVENTIONAL SIGNS

COUNTY LINES	---	TRAVELLED WAY - PROPOSED	==
TOWN LINES	---	UNDERGROUND UTILITIES - EXISTING	- - - -
PROPERTY LINES	---	UNDERGROUND UTILITIES - PROPOSED	- - - -
R/W LINES - EXISTING	---	RAILROAD - SINGLE TRACK	==
R/W LINES - NEW - ACCESS CONTROL	---	RAILROAD - DOUBLE TRACK	==
R/W LINES - NEW - NO ACCESS CONTROL	---	UTILITY POLE - EXISTING	♦
CULVERT - EXISTING	==	UTILITY POLE - JOINT OCCUPANCY	♦
CULVERT - PROPOSED	==	PROPOSED UTILITY POLE - TEMPORARY	X
CURBING - EXISTING	==	PROPOSED UTILITY POLE - PERMANENT	X
CURBING - PROPOSED	==	TREES	⬢
TRAVELLED WAY - EXISTING	==	WOODS	⬢

### INDEX OF SHEETS

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3-4	TYPICAL SECTIONS
5-6	QUANTITY AND DRAINAGE SHEET
7-19	STANDARD AND SPECIAL DETAIL SHEETS
20-47	I-295 STRUCTURES OVER STATE ROUTE 703
48-51	FOUNDATION PLANS- RED BROOK CULVERTS
52	RED BROOK CULVERT (STA.87+80 I-295)
53	" " " (STA.12+70 RAMP TPK-7) & (STA.2+95 RAMP TPK-5)
54	" " " (STA.108+00 I-295)
55-56	PLAN and PROFILE I-295 STA.50+00 to STA.65+00 & ACCESS ROAD
57	" " " STA.65+00 to STA.80+00
58	" " " STA.80+00 to STA.95+00 & RAMP TPK-7
59-64	" " " STA.95+00 to STA.110+00, RAMPS TPK-5, 6 & 7, & SR.703
65	" " " STA.110+00 to STA.125+00 & RAMP TPK-6
66	GRADING PLAN STA.59+50 to STA.70+25 (TOLL PLAZA AREA)
67-86	CROSS SECTIONS I-295 STA.53+00 to STA.121+00 SCALE: 1"=10'
87-91	" " " RAMP TPK-5 STA.0+00 to STA.13+50 " "
92-93	" " " RAMP TPK-6 STA.17+50 to STA.28+00 " "
94-98	" " " RAMP TPK-7 STA.6+50 to STA.21+50 " "
99-101	" " " ACCESS ROAD STA.11+00 to STA.24+00 SCALE: 1"=5'
102-103	ACCESS SIGNING PLANS



TRAFFIC DATA	N.B.	S.B.
A.D.T. 1970	2,830	2,680
A.D.T. 1990	5,704	5,004
D.H.V.	43	701
T. (%)	5	5
D. (%)		
V.	50	50
P.S.D. (%)		
18 KIPS		

FOR MORE DETAILED TRAFFIC DATA, SEE SHEET NO. 2,  
GENERAL PROJECT INFORMATION.

NOTE  
ALL WORK CONTEMPLATED UNDER THIS CONTRACT  
SHALL BE GOVERNED BY AND IN CONFORMITY WITH  
THE STANDARD SPECIFICATIONS (REVISION OF JUNE  
1968 AND SUPPLEMENTS THERETO, EXCEPT AS MOD-  
IFIED ON THE PLANS AND IN THE SPECIAL PROVIS-  
IONS.

APPROVED:  
MAINE STATE HIGHWAY COMMISSION

*David H. Sluven*  
CHAIRMAN  
*Robert G. Lockard*  
*Steven D. Shaw*  
*Sylvester A. Foor*  
CHIEF ENGINEER

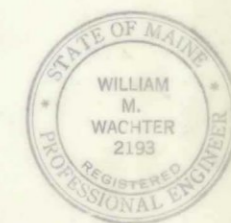
DATE  
September 14, 1970  
September 16, 1970  
September 16, 1970  
September 16, 1970

HOWARD, NEEDLES, TAMMEN & BERGENDOFF  
CONSULTING ENGINEERS  
NEW YORK BOSTON KANSAS CITY

*Wm. W. White*  
MAY 27, 1970  
DATE

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
BUREAU OF PUBLIC ROADS  
REGION 1

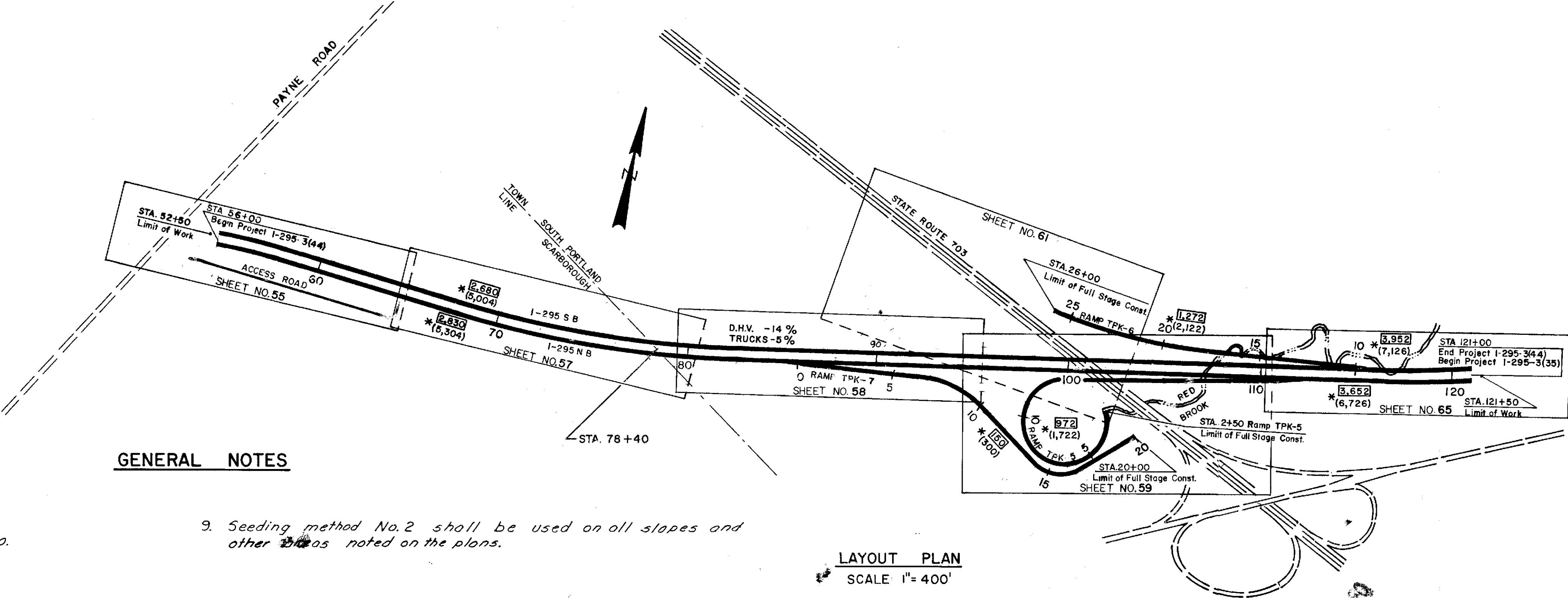
APPROVED:  
DIVISION ENGINEER DATE



GENERAL PROJECT INFORMATION

R. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-295-3 (44)	2	103

\* TRAFFIC DATA:  
1970 AADT 1970  
1990 AADT (1990)



GENERAL NOTES

- The utilities involved in this contract are:  
Central Maine Power Co.  
New England Telephone & Telegraph Co.  
Portland Water District  
Portland Gas & Light Co.
- All utility facilities are to be adjusted as necessary by the respective utilities unless otherwise noted.
- Removal or abandonment of any existing drainage must first be approved by the Engineer.
- Grubbing in fill will not be required unless the subgrade is within 5' of the existing ground in woods and fields. The width of grubbing is determined by the intersection of a one to one slope from the shoulder berm and existing ground.
- Clearing shall be performed to 5' beyond the slope line in high fill-guard rail sections and in all ditched sections where the depth of ditch is 5' or greater. In low fill sections and ditched sections less than 5' in depth, clearing shall be 15' beyond the slope line. Selective clearing and thinning shall be performed between the clearing limits and ROW lines or selective clearing and thinning lines as shown on the plans.
- P.T.H. shown on the cross sections indicates "Planimeter to Here" for use in quantity calculations only.
- Where erosion control mesh or sod is required for circular ditches the width shall be 1'-2" and each edge shall be approximately the same elevation. Methods of construction shall conform to those shown in the "Standard Details".
- Landscaping - General  
The loam, seed and hay mulch notes as shown apply as a general guide. In all cases the Engineer has final authority as to the placement of these items.
- Seeding method No.2 shall be used on all slopes and other areas noted on the plans.
- All loam depths shall be 3". All slopes shall be loamed on this basis unless otherwise noted on the plans.
- Hay mulch and asphalt binder shall be applied to all areas seeded by method No.2.
- All ditch elevations shown on the cross sections are to the top of loam unless otherwise noted.
- All reinforced concrete pipe shall be class III unless otherwise noted on the plans.
- All excavation for relocated channels shall be paid for under item 206.12 Structural Earth Excavation - Channel.
- Riprap used on all relocated channel slopes shall be hand laid and that used on the bottom of the channel shall be plain riprap. Location of these items shall be as shown on the plans or as directed by the Engineer.
- The Contractor Shall Install Woven Wire fencing - Metal Posts Around the property Rt. of I-295 Sta 53+50 Before any other work in the area Begins.
- All muck excavation areas shall be backfilled to 1'-0" above existing ground with granular borrow or excavation meeting the requirements for granular borrow under water backfill.
- The Clearing Limit Lines shown on the plans are for estimating purposes only. The actual clearing Limit Lines for payment shall be field measured.
- Layout for sand drains shall be field adjusted (as directed by the soils Division) in the areas of the structural plate pipes and other culverts.
- Excavation for sight preparation where not shown as muck shall be paid for as Common Excavation.

LAYOUT PLAN  
SCALE 1"= 400'

FIELD BOOKS RELATIVE TO PROJECT

- |         |              |  |
|---------|--------------|--|
| 295/153 | 5a. Portland | X-sections Sta 116+00 to 121+00  |
| 295/234 | 5a. Portland | Alignment, ties, topo Sta 50+00 - Sta 116+00 & Med. I-295, Sta. 40+00- Sta 50+00 S.B. lane I-295         |
| 295/235 | 5a. Portland | X-Sections Sta 50+00- Sta 116+00 & Med I-295, Sta. 40+00- Sta. 49+50 S.B. lane I-295                     |
| 295/244 | 5a. Portland | Alignment, ties, topo, X-sections N.B. Ramps I-295 to tpke spur State Highway 703, Ramps TPK-5 and TPK-7 |
| 295/246 | 5a. Portland | Alignment, X-section Ramp "S.B." I-295, Ramp TPK-6   |
| 295/251 | 5a. Portland | Benchmarks, ties, X-sections, alignment I-295, Access Road & to toll house                               |
21. If the contractor elects to leave the build-up of material from the sand drains on the fill, the material shall be upgraded with Common borrow to a standard acceptable to the Engineer. The only payment will be for the Quantity of ITEM No. 203.24 Common Borrow actually used.

Revised As Built (General Note  
No. 14, only).  
S.W. Ritzky Jr. 5-13-74

HOWARD, NEEDLES, TAMMEN & BERGENDOFF  
CONSULTING ENGINEERS

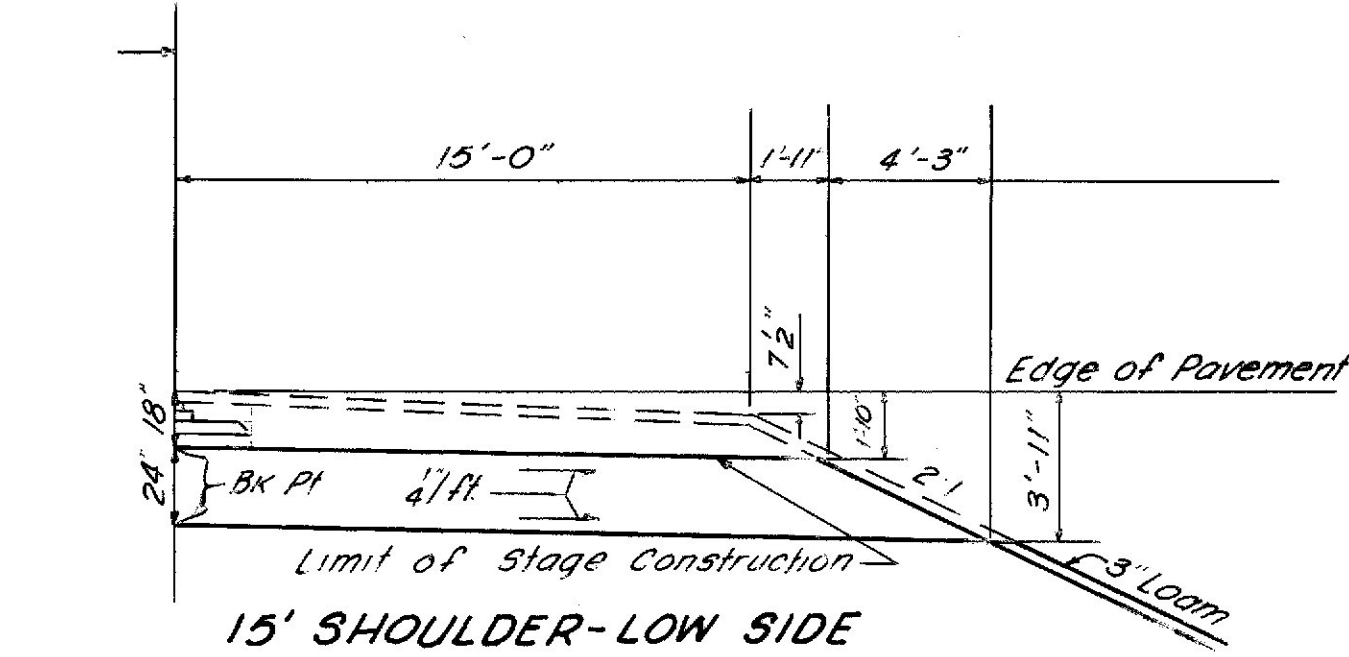
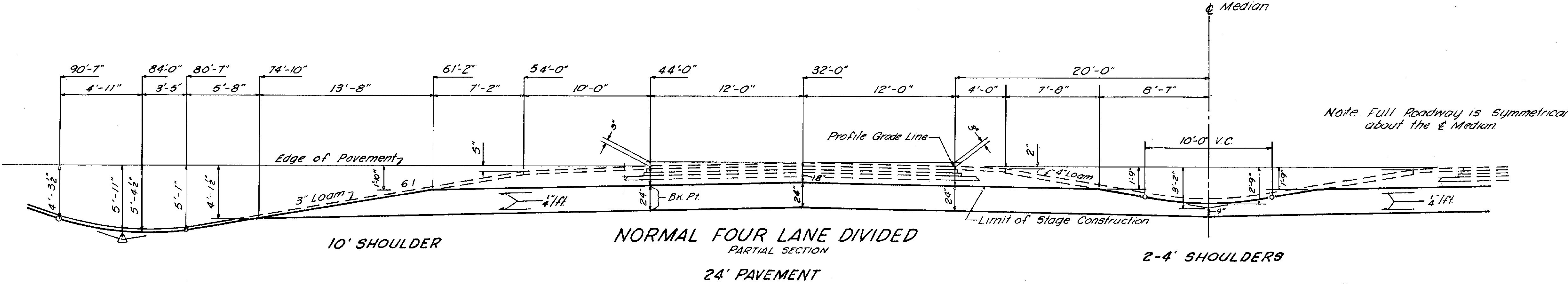
NEW YORK BOSTON KANSAS CITY

MAINE STATE HIGHWAY COMMISSION  
AUGUSTA, MAINE

GENERAL PROJECT  
INFORMATION SHEET

STAGE CONSTRUCTION — GRADING AND SUBBASE

S. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	295-3 (44)	3	103

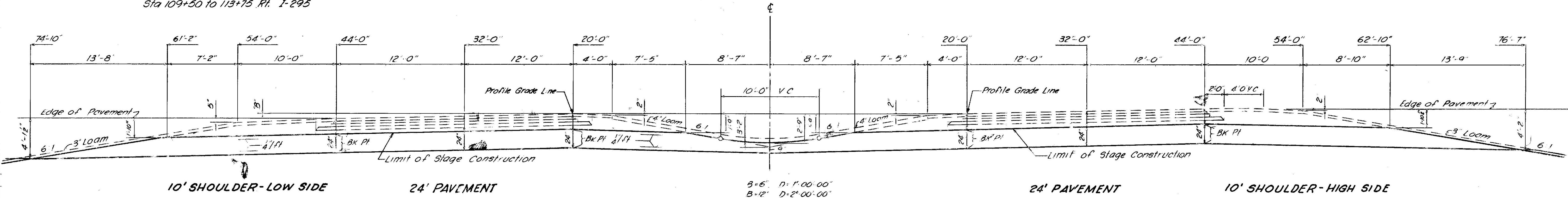


24" Aggregate Subbase Course - Sand = 178.61 CY/100 LF  
Sta 54+50 to 63+00 Rt. I-295  
Sta 65+00 to 86+00 Lt. I-295  
Sta 65+00 to 66+00 Rt. I-295  
Sta 91+50 to 97+00 Rt. I-295  
Sta 109+50 to 113+75 Rt. I-295

24" Aggregate Subbase Course - Sand = 177.78 CY/100 LF

24" Aggregate Subbase Course - Sand = 260.80 CY/100 LF

24" Aggregate Subbase Course - Sand = 141.04 CY/100 LF  
Sta 86+50 to 97+00 Lt. I-295  
Sta 114+50 to 115+00 Rt. I-295  
Sta 115+00 to 119+00 Lt. I-295



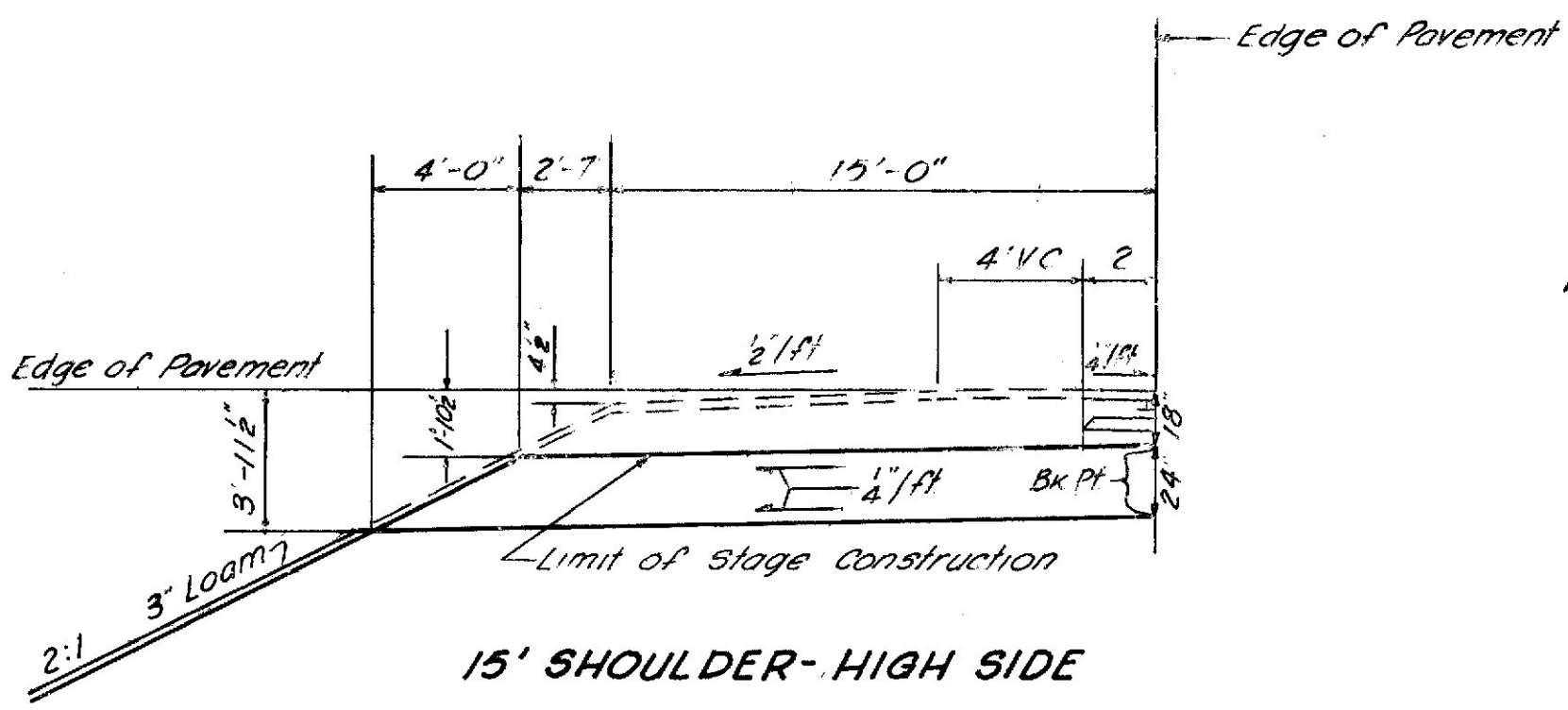
24" Aggregate Subbase Course - Sand = 178.61 CY/100 LF  
Sta 54+50 to 63+00 Rt. I-295  
Sta 65+00 to 86+00 Lt. I-295  
Sta 65+00 to 66+00 Rt. I-295  
Sta 91+50 to 97+00 Rt. I-295  
Sta 109+50 to 113+75 Rt. I-295

24" Aggregate Subbase Course - Sand = 177.78 CY/100 LF

24" Aggregate Subbase Course - Sand = 260.80 CY/100 LF

24" Aggregate Subbase Course - Sand = 177.78 CY/100 LF

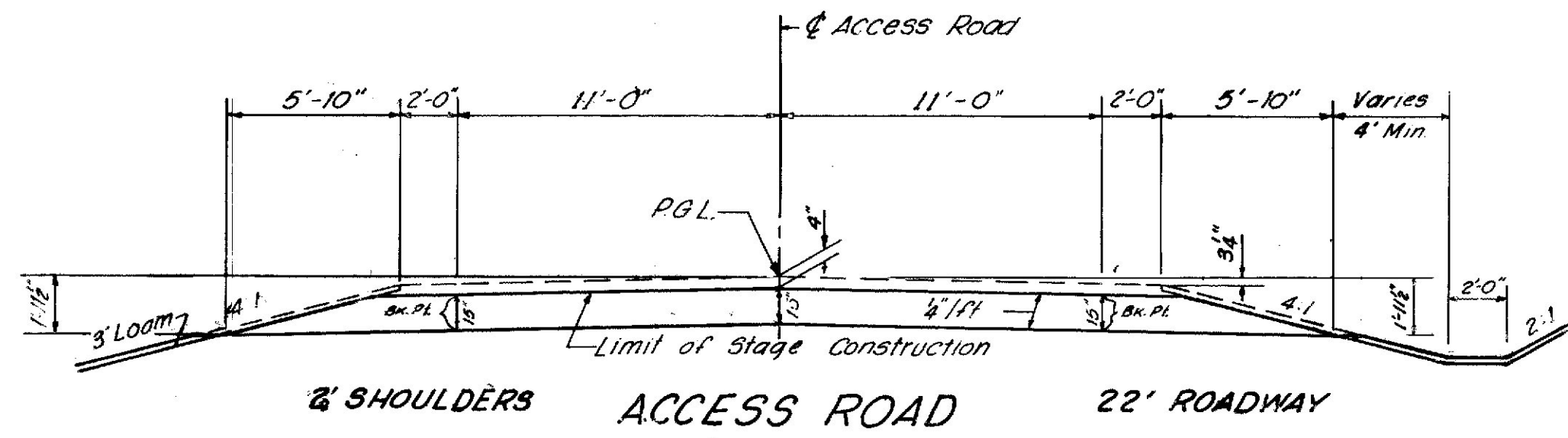
24" Aggregate Subbase Course - Sand = 191.06 CY/100 LF  
Sta 57+25 to 59+50 Lt. I-295  
Sta 66+00 to 83+50 Rt. I-295



24" Aggregate Subbase Course - Sand = 145.00 CY/100 LF  
Sta 54+50 to 56+50 Lt. I-295  
Sta 115+00 to 117+50 Lt. I-295

- Notes: (As Built, 1971)
- (1) A 5" Layer of Aggregate Subbase Course - Gravel was placed in the following areas:
- Main Line roadway & shoulders NB & SB
  - Sta 56+00 to 63+50
  - 64+50 to 85+25
  - 89+25 to 93+25
  - 96+00 to Bridge Approach Slab @ J.R. 703
  - Main Line roadway & shoulders SB only
  - From Bridge Approach Slab @ J.R. 703 Ahead to Sta 108+00
  - Ramp Tpk-7 roadway & shoulders
  - Sta 3+50 ± (opposite ML 89+25) to 6+75.

- (2) A 4" Layer of Agg. Subbase Crse. - Gravel was placed in the following areas:
- Ramp Tpk-7 roadway & shoulders
  - Sta 6+75 to 7+00 & Sta 12+50 to 20+00.



15" Aggregate Subbase Course - Gravel = 22.39 CY/100 LF

15" Aggregate Subbase Course - Gravel = 101.85 CY/100 LF

Revised As Built  
(Added Gravel Notes)  
C.W. Putney Jr. 5-13-74

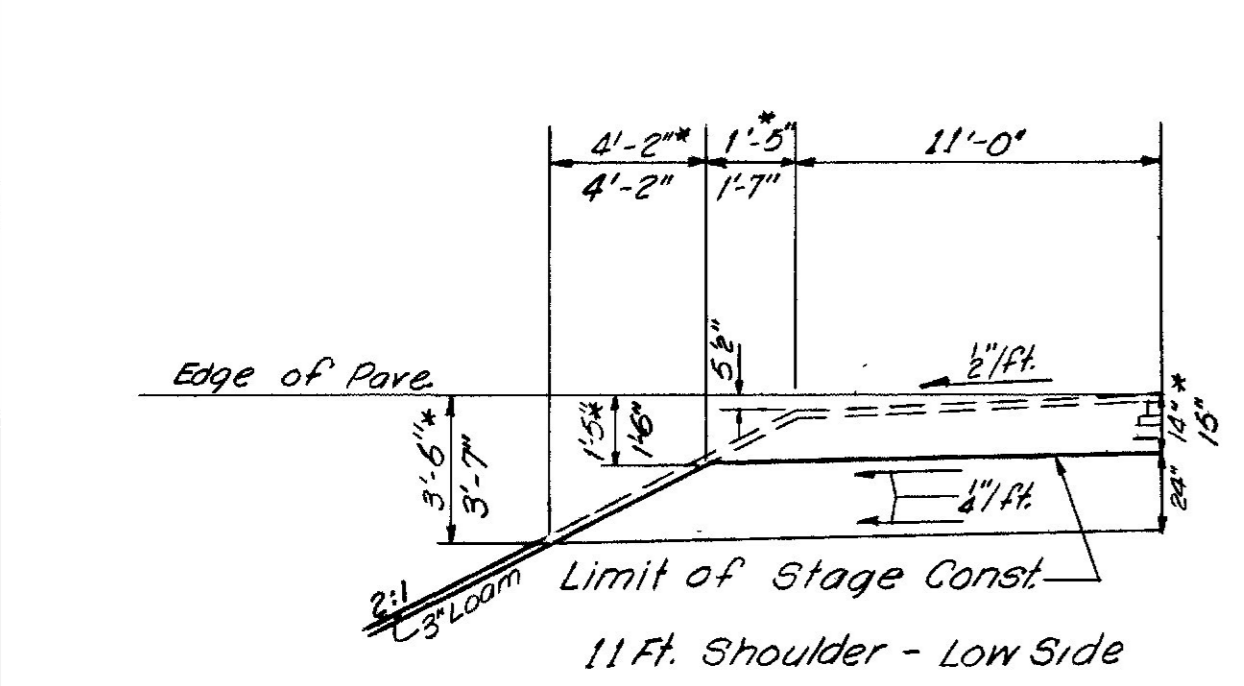
HOWARD, NEEDLES, TAMMEN & BERGENDOFF  
CONSULTING ENGINEERS  
NEW YORK BOSTON KANSAS CITY

MAINE STATE HIGHWAY COMMISSION  
AUGUSTA, MAINE

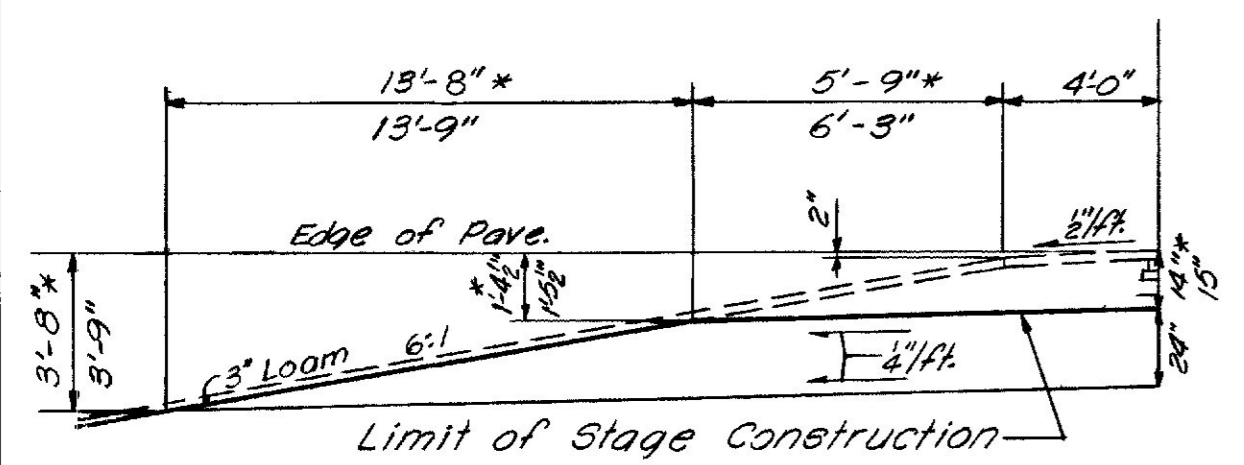
TYPICAL SECTIONS

# STAGE CONSTRUCTION — GRADING AND SUBBASE

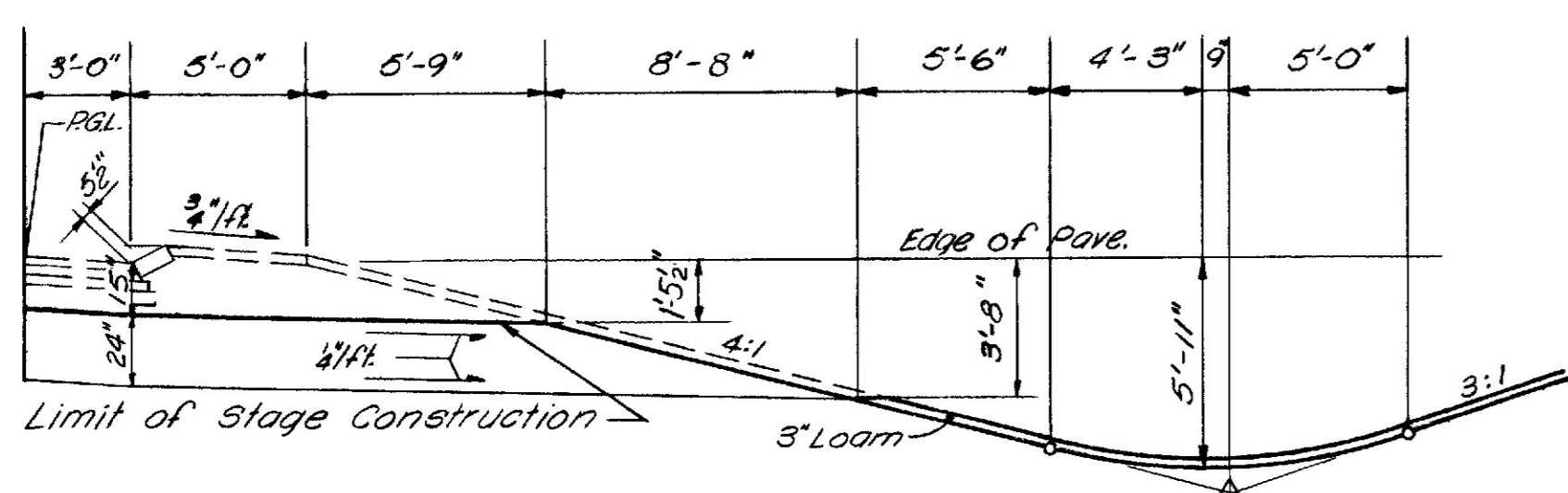
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-295-3 (44)	4	103



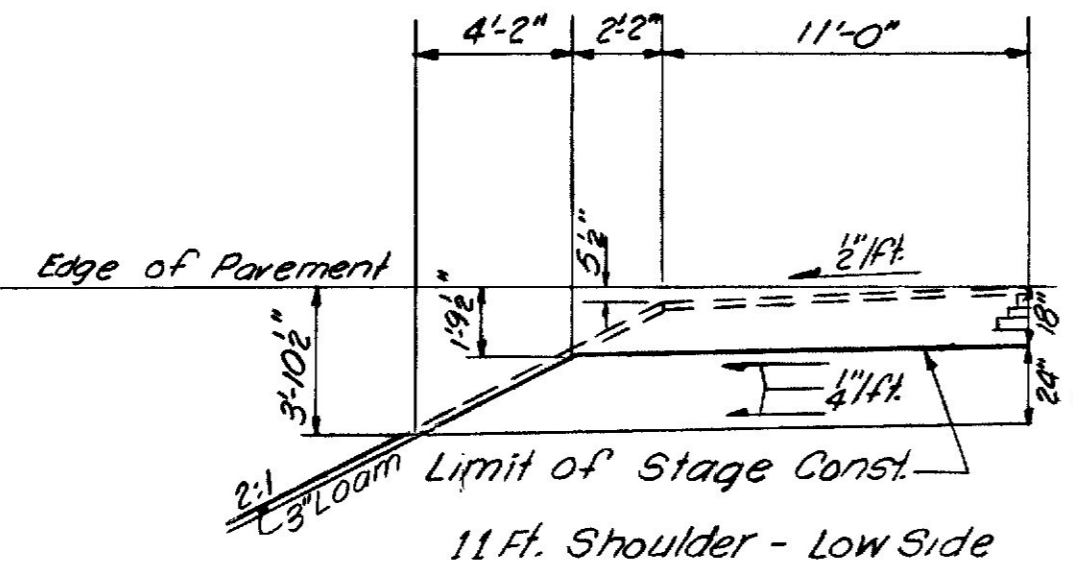
24" Aggregate Subbase Crse.-Sand = 107.39 CY/100 L.F.\*  
108.65 CY/100 L.F.  
Sta 17+50 to 19+50 Ramp TPK-6  
Sta 6+75 to 12+00 Ramp TPK-7



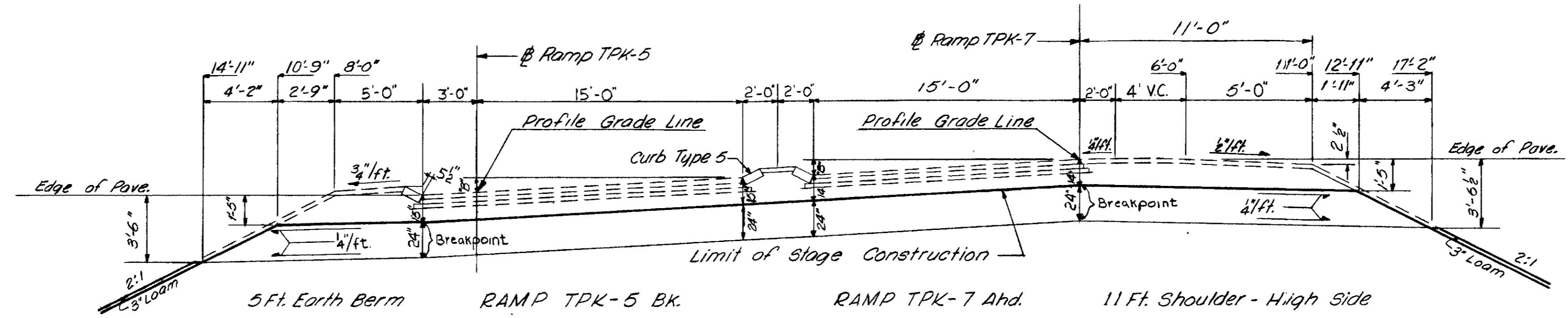
4 Ft. Shoulder - 6:1 Side Slope  
24" Aggregate Subbase Course-Sand = 122.83 CY/100 L.F.\*  
126.91 CY/100 L.F.  
Sta 9+25 to 11+00 Ramp TPK-5  
Sta 5+74 to 12+75 Ramp TPK-7



RAMP TPK-5 - 5 Ft. Earth Berm  
24" Aggregate Subbase Course-Sand = 112.53 CY/100 L.F.  
Sta 4+00 to 7+00

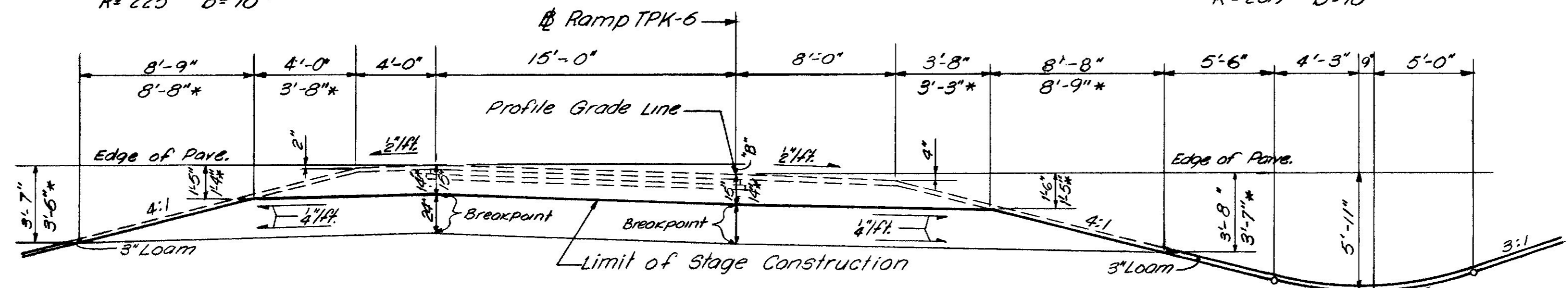


24" Aggregate Subbase Crse.-Sand = 112.74 CY/100 L.F.  
Sta 10+00 to 17+50 Ramp TPK-6  
Sta 0+00 to 6+75 Ramp TPK-7



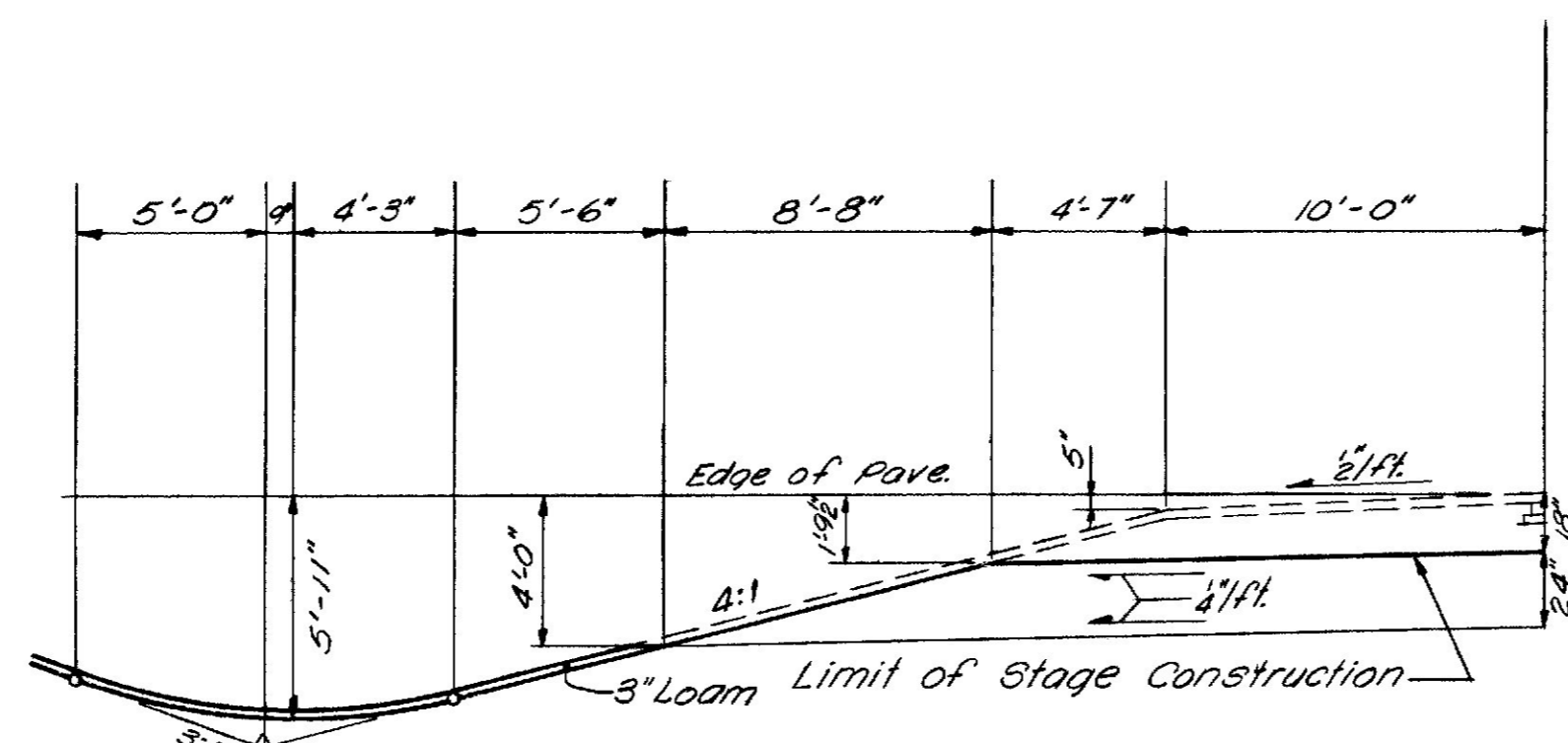
24" Aggregate Subbase Crse.-Sand = 72.75 CY/100 L.F.  
Sta 2+50 to 3+50 Ramp TPK-5  
Sta 7+50 to 11+00 Ramp TPK-5

Ramp TPK-5 "B" Value  
R = 225' B = 10"

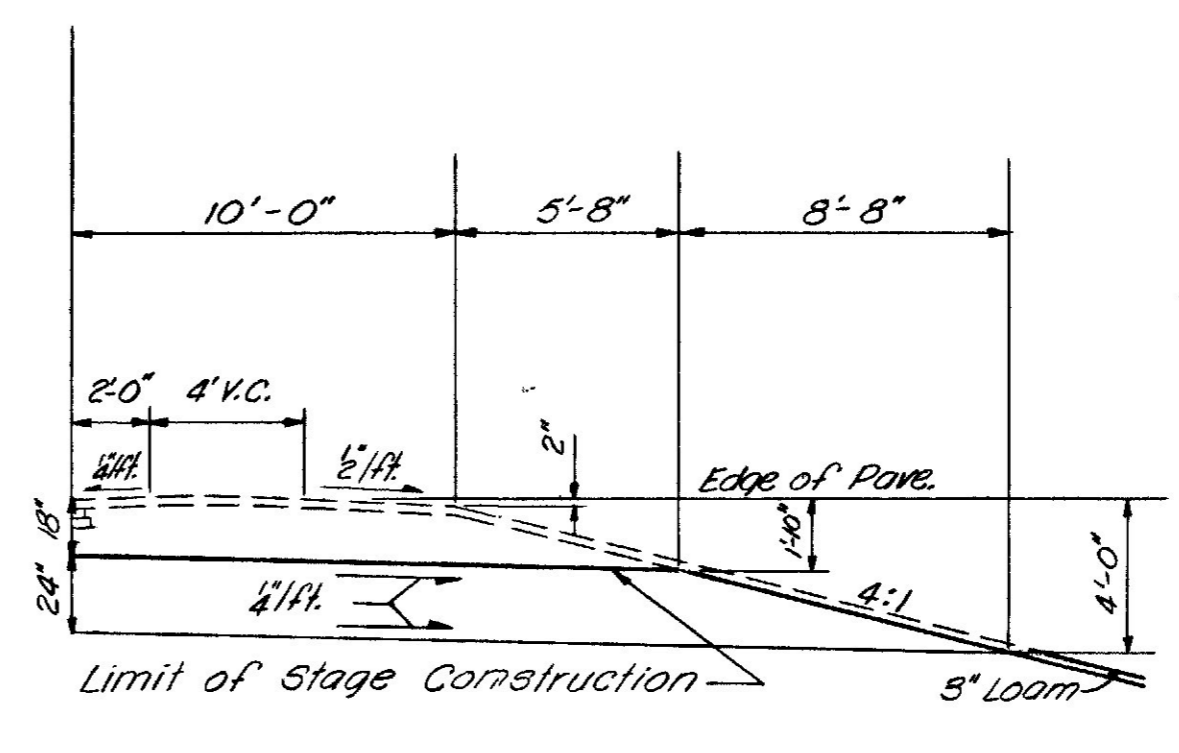


4 Ft. Shld.-High & Low Side  
24" Aggregate Subbase Crse.-Sand = 91.44 CY/100 L.F.\*  
88.35 CY/100 L.F.  
Sta 3+50 to 4+25 Ramp TPK-5  
Sta 15+94 to 26+00 Ramp TPK-6  
Sta 18+25 to 20+00 Ramp TPK-7

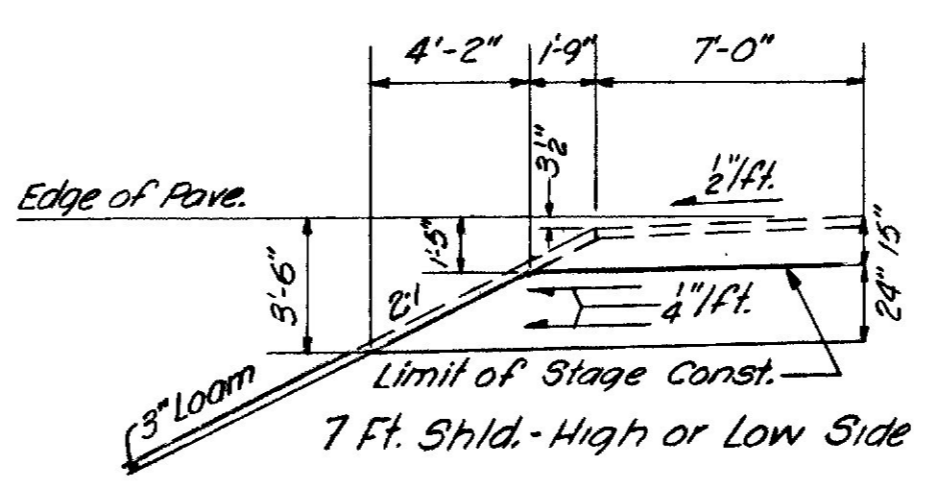
Ramp TPK-6 "B" Value  
D = 2°00'00" B = 6"



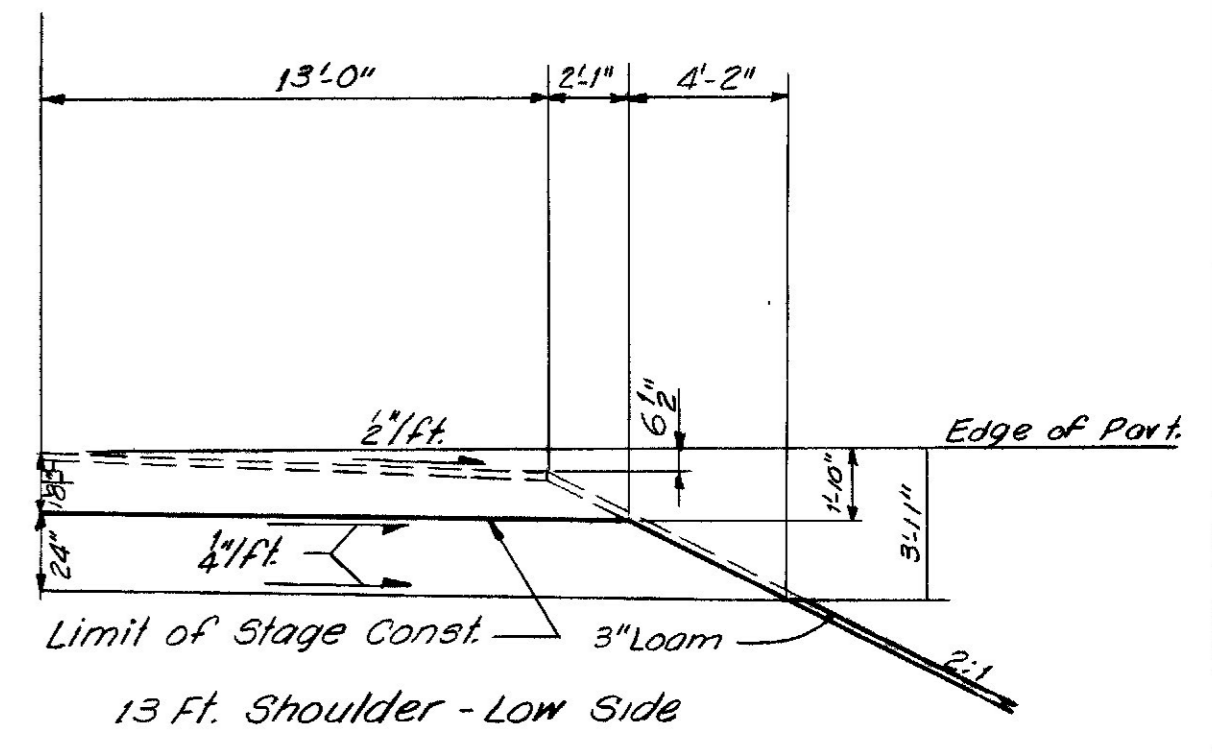
10 Ft. Shoulder - Low Side  
24" Aggregate Subbase Crse.-Sand = 141.06 CY/100 L.F.  
Sta 119+75 to 121+50 Lt. I-295



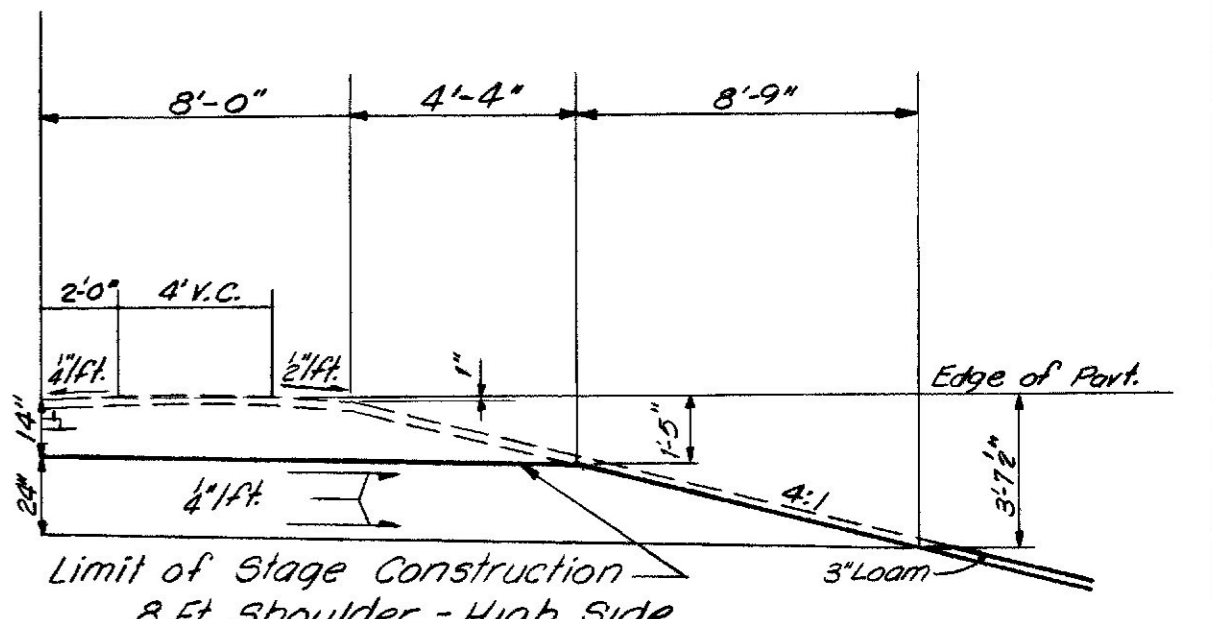
10 Ft. Shoulder - High Side  
24" Aggregate Subbase Crse.-Sand = 144.55 CY/100 L.F.  
Sta 118+00 to 121+50 Rt. I-295



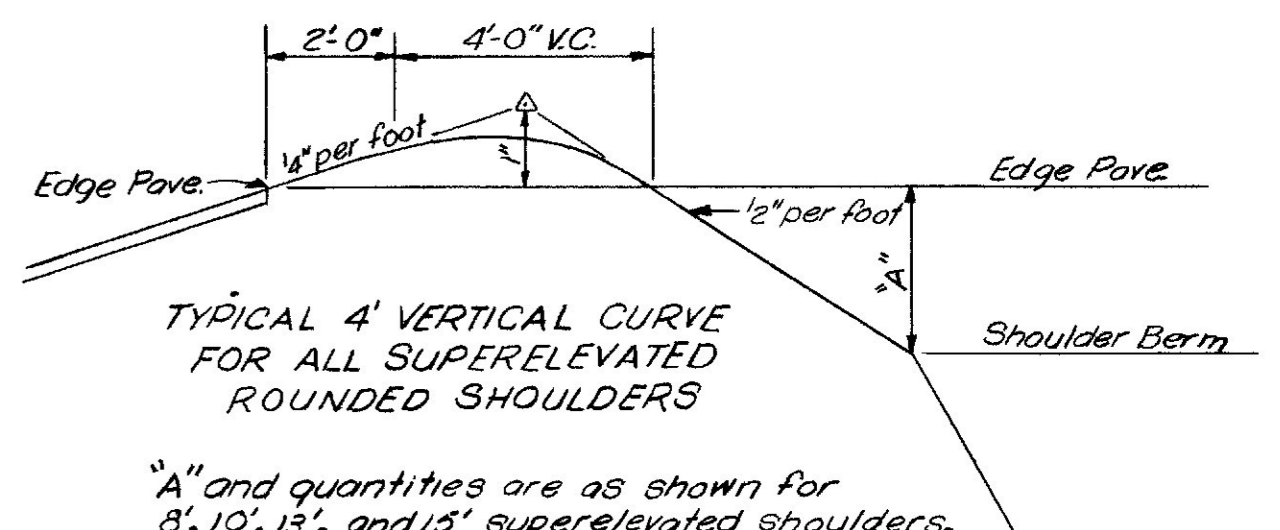
24" Aggregate Subbase Crse.-Sand = 80.31 CY/100 L.F.  
Sta 2+50 to 3+00 Ramp TPK-5



24" Aggregate Subbase Crse.-Sand = 126.92 CY/100 L.F.  
Sta. 18+80 to 22+82 Ramp TPK-5



24" Aggregate Subbase Crse.-Sand = 124.47 CY/100 L.F.  
Sta 15+00 to 19+00 Ramp TPK-7



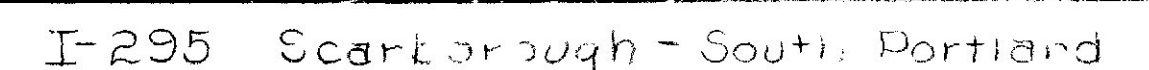
Note: Dimensions and Quantities Shown with an Asterisk (\*) Apply to Ramp TPK-7  
See "As Built" Gravel Notes on Sheet No. 3.  
E.W. Putney Jr. 5-13-74

HOWARD, NEEDLES, TAMMEN & BERGENDOFF  
CONSULTING ENGINEERS  
NEW YORK BOSTON KANSAS CITY

MAINE STATE HIGHWAY COMMISSION  
AUGUSTA, MAINE

TYPICAL SECTIONS

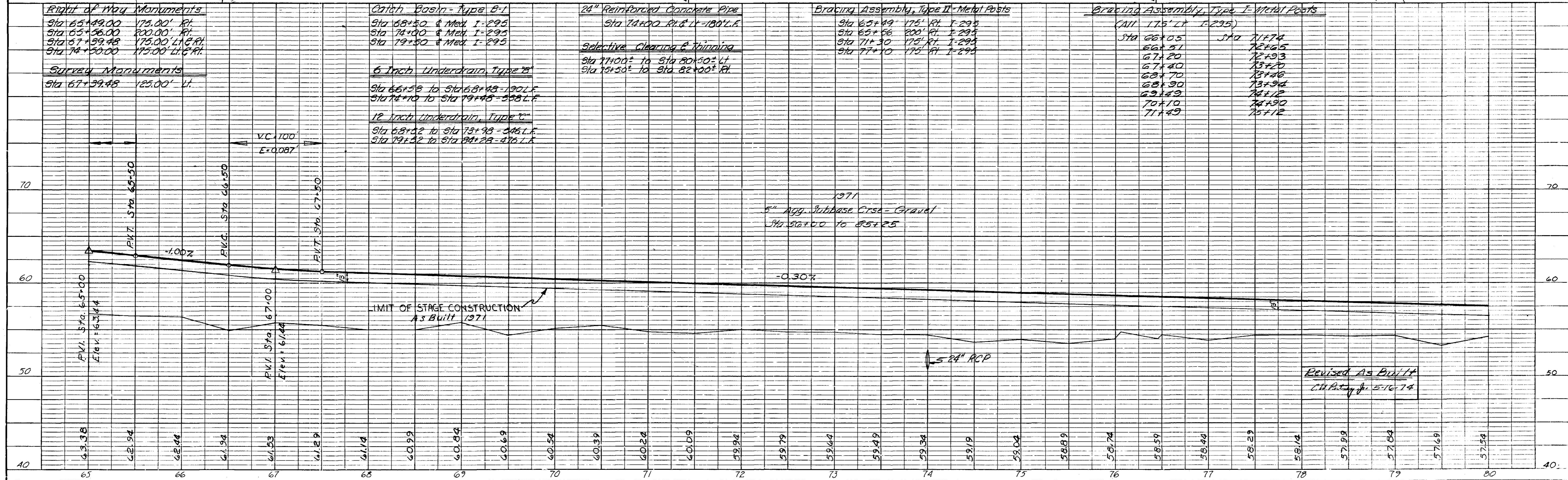
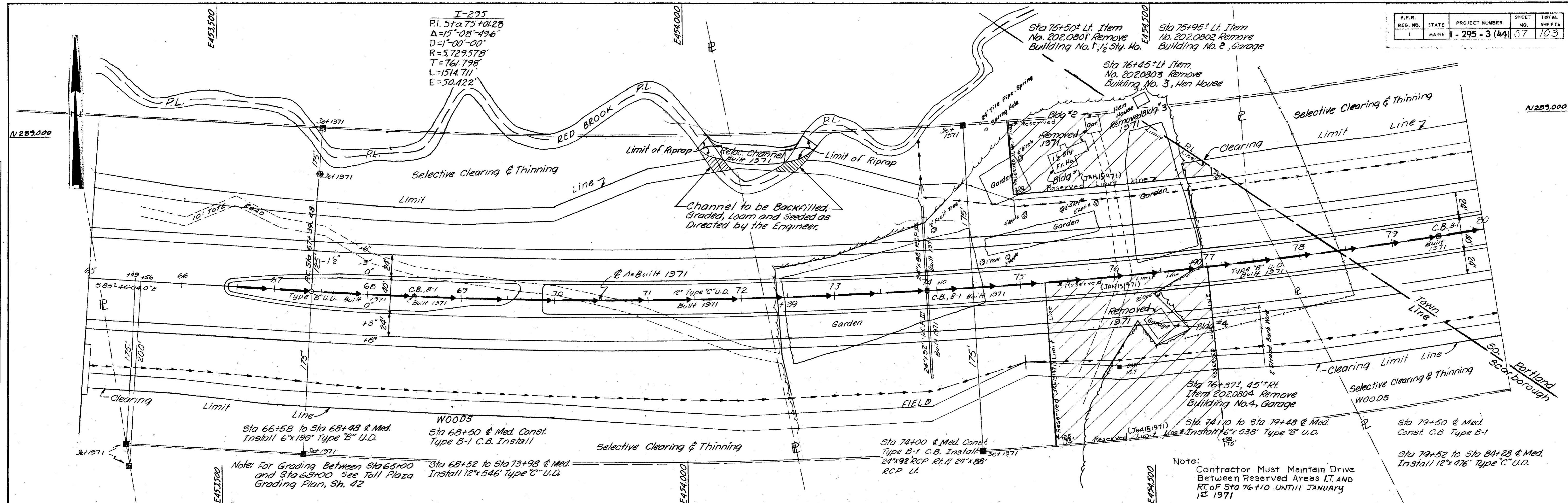






PLAN	DATE
SURVEYED	
NOTED	
ALIGNED	
RIGHT OF WAY	
NO.	

PROFILE	DATE
SURVEYED	
NOTED	
ALIGNED	
RIGHT OF WAY	
NO.	



PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	NOTE BOOK	RT. OF WAY CHECKED

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	NOTE BOOK	STRUCTURE NOTATIONS OK'D

B.P.R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-295-3 (44)	58	103

