B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-295-3(44)45	1	103

SCARBOROUGH
SO. PORTLAND

STATE OF MAINE
STATE HIGHWAY COMMISSION

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

SCALES — PLANS 1 IN. = 50 FT.; PROFILES (HORIZ. 1 IN. = 50 FT., VERT. 1 IN. = 5 FT.); CROSS SECTIONS 1 IN. = 10 FT. — OR AS SHOWN

BUILT 1971

Reel 174

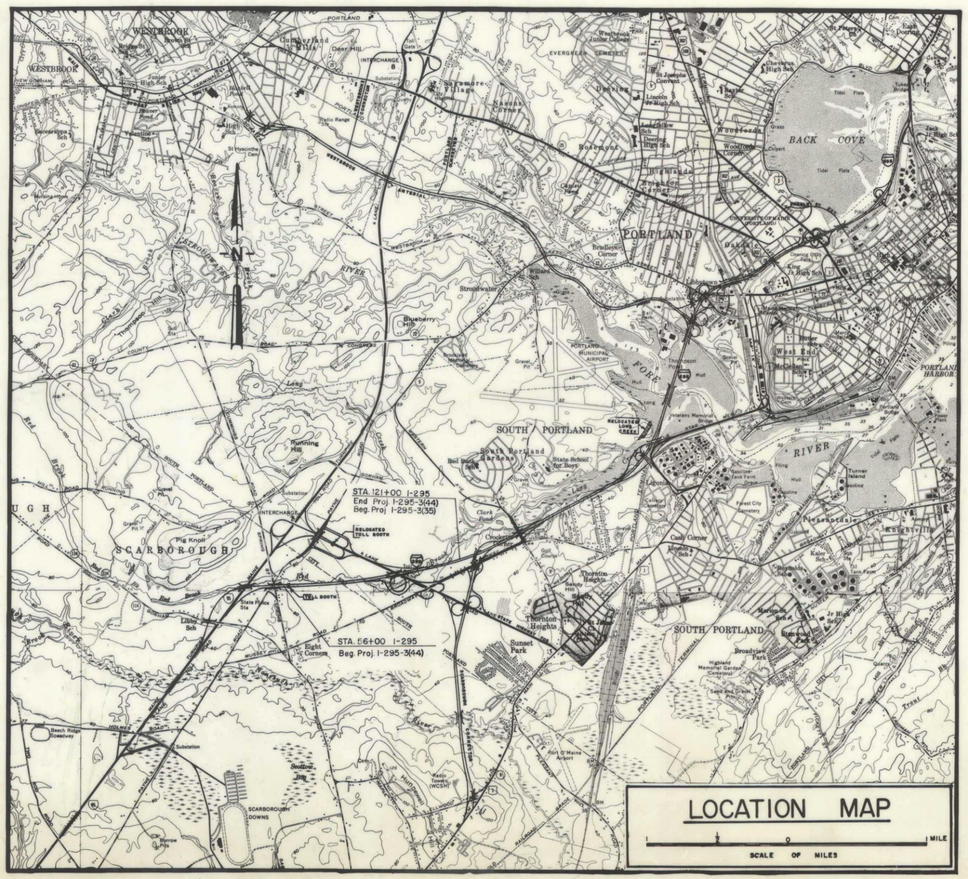
Bridge Maintenance

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
CURBING - EXISTING	PROPOSED UTILITY POLE - PERMANENT
CURBING - PROPOSED	TREES (hardwood, softwood)
TRAVELLED WAY - EXISTING	WOODS

INDEX OF SHEETS

1	TITLE SHEET
2	GENERAL PROJECT INFORMATION SHEET
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, & S.R.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



LOCATION MAP
SCALE OF MILES

TRAFFIC DATA	N.B.	S.B.
A.D.T. 1970	2,830	2,680
A.D.T. 1990	5,004	5,004
D.H.V.	143	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 MODIFIED ON THE PLANS AND IN THE SPECIAL PROVISIONS.

STATE OF MAINE — WILLIAM M. WACHTER 2193 REGISTERED PROFESSIONAL ENGINEER

STATE OF MAINE — SYLVESTER L. FOOR 197 REGISTERED PROFESSIONAL ENGINEER

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

MAY 27, 1970
DATE

APPROVED:
MAINE STATE HIGHWAY COMMISSION — DATE

David H. Stevens, CHAIRMAN — September 16, 1970
Everett A. Richards — September 16, 1970
Steven T. Stearns — September 16, 1970
Sylvester L. Foor, CHIEF ENGINEER — September 16, 1970

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

APPROVED:

DIVISION ENGINEER — DATE

JANUARY 1968

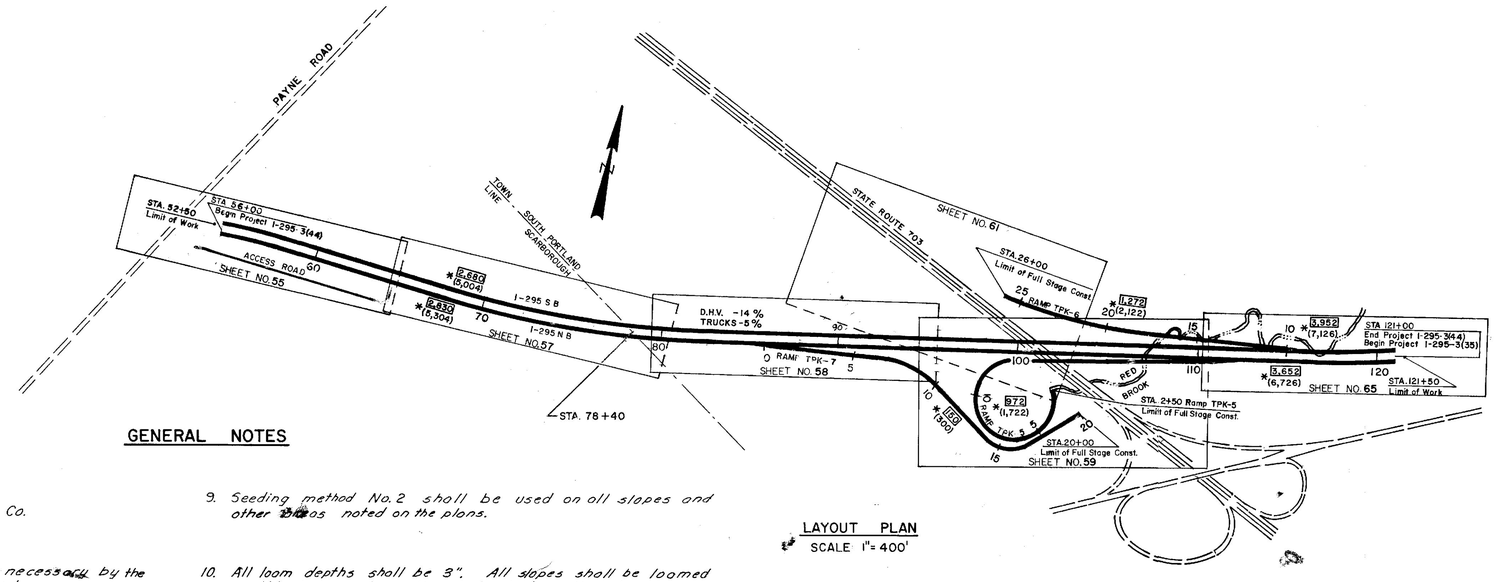
203-1 2080

I-295 Scarborough - South Portland

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

GENERAL PROJECT INFORMATION

* TRAFFIC DATA:
1970 AADT 9700
1990 AADT (1990)



LAYOUT PLAN
SCALE 1"= 400'

GENERAL NOTES

1. The utilities involved in this contract are:
   Central Maine Power Co.
   New England Telephone & Telegraph Co.
   Portland Water District
   Portland Gas & Light Co.

2. All utility facilities are to be adjusted as necessary by the respective utilities unless otherwise noted.

3. Removal or abandonment of any existing drainage must first be approved by the Engineer.

4. 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.

5. 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.

6. P.T.H. shown on the cross sections indicates "Planimeter to Here" for use in quantity calculations only.

7. 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"

8. 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.

9. Seeding method No. 2 shall be used on all slopes and other areas noted on the plans.

10. All loam depths shall be 3". All slopes shall be loomed on this basis unless otherwise noted on the plans.

11. Hay mulch and asphalt binder shall be applied to all areas seeded by method No. 2.

12. All ditch elevations shown on the cross sections are to the top of loam unless otherwise noted.

13. All reinforced concrete pipe shall be class III unless otherwise noted on the plans.

14. All excavation for relocated channels shall be paid for under item 206.12 Structural Earth Excavation - Channel.

15. 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.

16. 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.

17. 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.

18. The Clearing Limit Lines shown on the plans are for estimating purposes only. The actual clearing Limit Lines for payment shall be field measured.

19. 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.

20. Excavation for sight preparation where not shown as muck shall be paid for as Common Excavation.

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.

FIELD BOOKS RELATIVE TO PROJECT

295/153	So. Portland	X-sections Sta 116+00 to 121+00
295/234	So. 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	So. 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	So. Portland	Alignment, ties, topo, X-sections N.B. Romps I-295 to tpke spur State Highway 703, Romps TPK-5 and TPK-7
295/246	So. Portland	Alignment, X-section Romp "S.B." I-295, Romp TPK-6
295/251	So. Portland	Benchmarks, ties, X-sections, alignment I-295, Access Road & to toll house

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

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

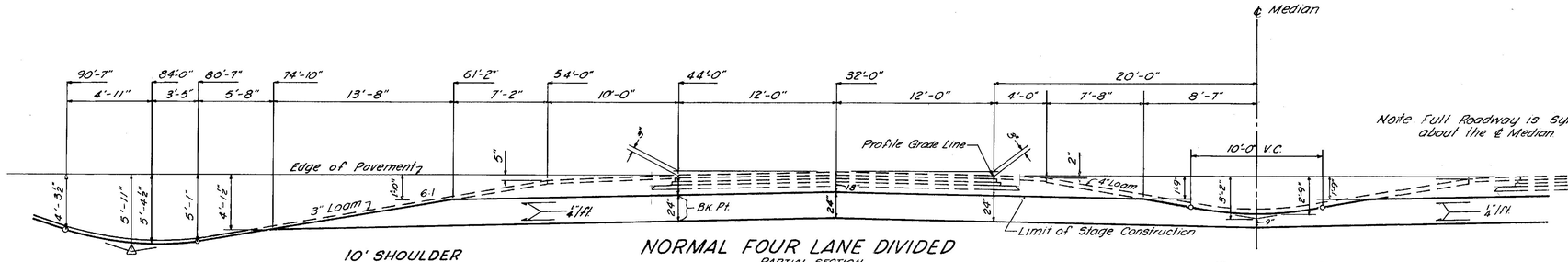
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

GENERAL PROJECT INFORMATION SHEET

BRUNING 44-302

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

STAGE CONSTRUCTION — GRADING AND SUBBASE



10' SHOULDER — NORMAL FOUR LANE DIVIDED — 2-4' SHOULDERS

PARTIAL SECTION

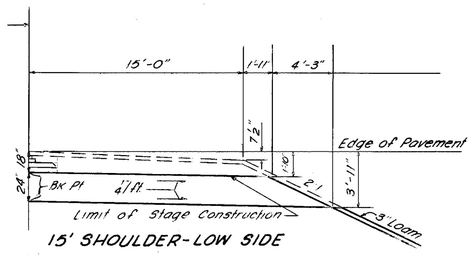
24' PAVEMENT

24" Aggregate Subbase Course - Sand = 178.61 CY/100 L.F.

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 L.F.

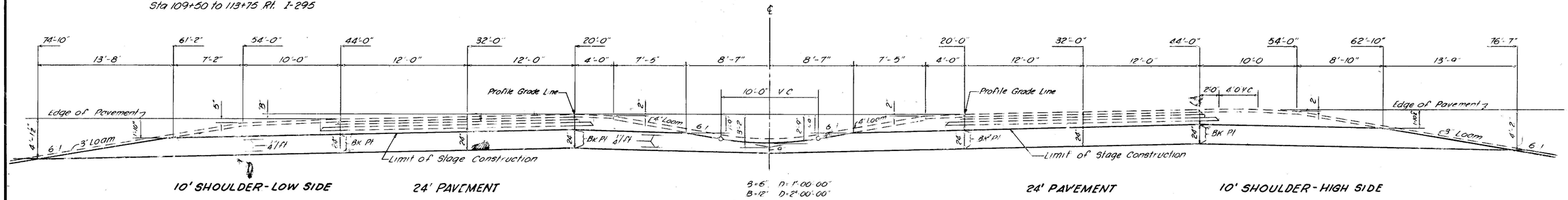
24" Aggregate Subbase Course - Sand = 260.80 CY/100 L.F.



15' SHOULDER - LOW SIDE

24" Aggregate Subbase Course - Sand = 141.04 CY/100 L.F.

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



10' SHOULDER - LOW SIDE — 24' PAVEMENT — B=6' D=1°00'00" B=12' D=2°00'00" — 24' PAVEMENT — 10' SHOULDER - HIGH SIDE

SUPERELEVATED FOUR LANE DIVIDED

24" Aggregate Subbase Course - Sand = 178.61 CY/100 L.F.

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 L.F.

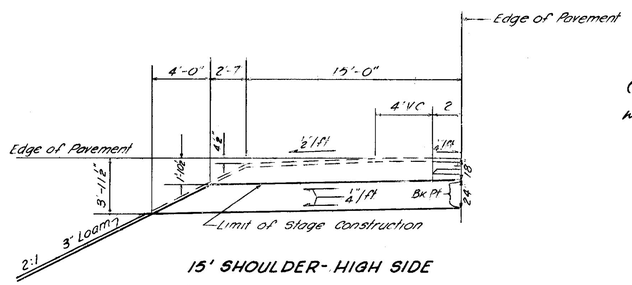
2-4' SHOULDERS

24" Aggregate Subbase Course - Sand = 260.80 CY/100 L.F.

24" Aggregate Subbase Course - Sand = 177.78 CY/100 L.F.

24" Aggregate Subbase Course - Sand = 191.06 CY/100 L.F.

Sta 57+25 to 59+50 Lt. I-295
Sta 66+00 to 83+50 Rt. I-295



15' SHOULDER - HIGH SIDE

24" Aggregate Subbase Course - Sand = 145.00 CY/100 L.F.

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 roadways & 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 @ S.P. 703

Main Line roadway & Shoulders SB only

From Bridge Approach Slab @ S.P. 703 Ahead to Sta 108+00

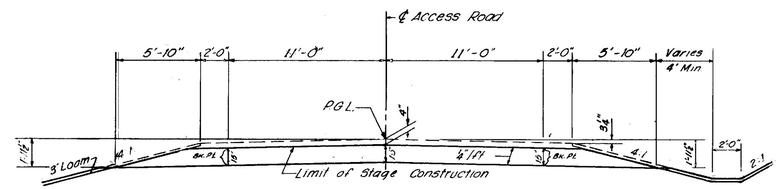
Ramp Tpk-7 roadway & Shoulders

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.



2 SHOULDERS — ACCESS ROAD — 22' ROADWAY

15" Aggregate Subbase Course - Gravel = 22.39 CY/100 L.F.

15" Aggregate Subbase Course - Gravel = 101.86 CY/100 L.F.

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

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

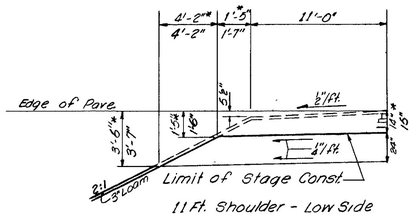
TYPICAL SECTIONS

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

BRUNING 44-302

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

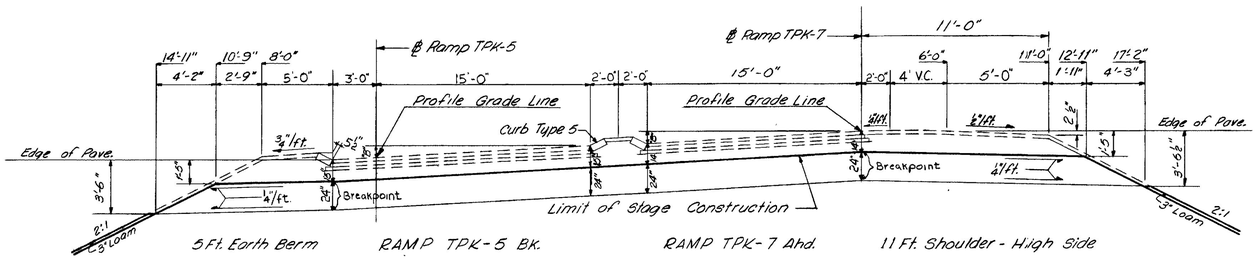
STAGE CONSTRUCTION — GRADING AND SUBBASE



11 Ft. Shoulder - Low Side

24" Aggregate Subbase Crse.- Sand = 107.39 C.Y./100 L.F. *
108.65 C.Y./100 L.F.

Sta 17+50 to 19+50 Ramp TPK-6
Sta 6+75 to 12+00 Ramp TPK-7



5 Ft. Earth Berm — RAMP TPK-5 Bk. — RAMP TPK-7 Ahd. — 11 Ft. Shoulder - High Side

24" Aggregate Subbase Crse.- Sand = 72.75 C.Y./100 L.F.

Sta 2+50 to 3+50 Ramp TPK-5
Sta 7+50 to 11+00 Ramp TPK-5

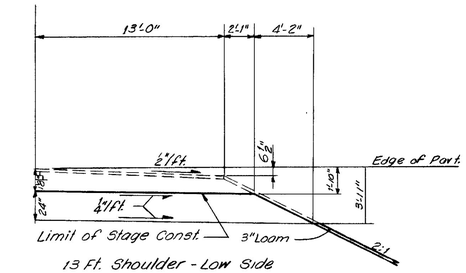
18' Rdway 24" Aggregate Subbase Crse.- Sand = 133.33 C.Y./100 L.F.
15' Rdway " " " " " 111.11 " "
4' Median " " " " " 29.63 " "

24" Aggregate Subbase Crse.- Sand = 112.44 C.Y./100 L.F.

Sta 12+00 to 14+50 Ramp TPK-7

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

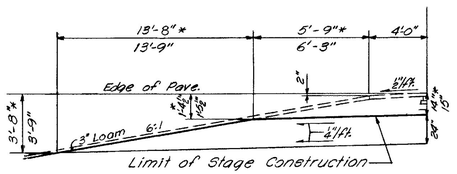
Ramp TPK-7 "B" Value
R = 475' B = 9"
R = 259' B = 10"



13 Ft. Shoulder - Low Side

24" Aggregate Subbase Crse - Sand = 126.92 C.Y./100 L.F.

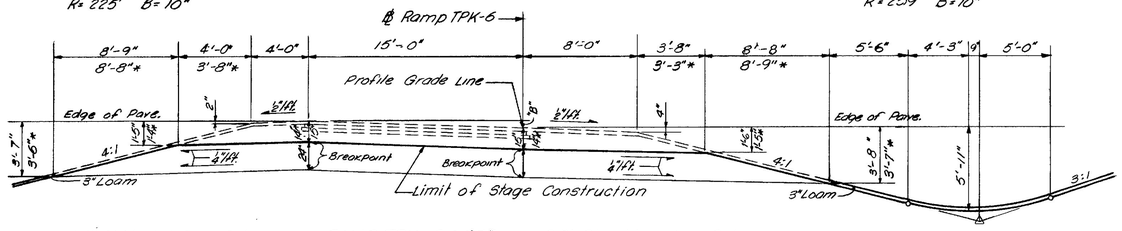
Sta. 18+80± to 22+82± Ramp TPK-5



4 Ft. Shoulder - 6:1 Side Slope

24" Aggregate Subbase Course- Sand = 122.83 C.Y./100 L.F. *
126.91 C.Y./100 L.F.

Sta 9+25 to 11+00 Ramp TPK-5
Sta 5+74 to 12+75 Ramp TPK-7



4 Ft. Shld. - High & Low Side — RAMP TPK-5, 6 & 7* — 8 Ft. Shoulder - Low Side

24" Aggregate Subbase Crse.- Sand = 91.44 C.Y./100 L.F.
88.38 C.Y./100 L.F. *

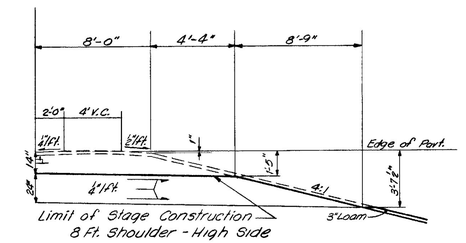
Sta 3+50 to 4+25 Ramp TPK-5
Sta 15+94 to 26+00 Ramp TPK-6
Sta 18+25 to 20+00 Ramp TPK-7

15 Roadway
24" Aggregate Subbase Crse.- Sand = 111.11 C.Y./100 L.F.

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

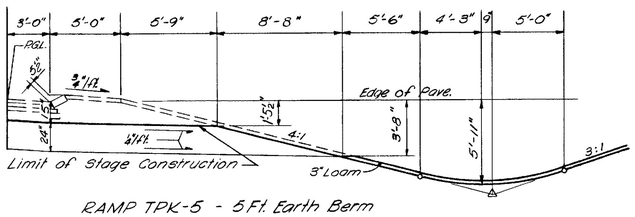
24" Aggregate Subbase Crse.- Sand = 118.11 C.Y./100 L.F.
115.16 C.Y./100 L.F. *

Sta 20+00 to 26+00 Ramp TPK-6
Sta 19+00 to 20+00 Ramp TPK-7



24" Aggregate Subbase Crse - Sand = 124.47 C.Y./100 L.F.

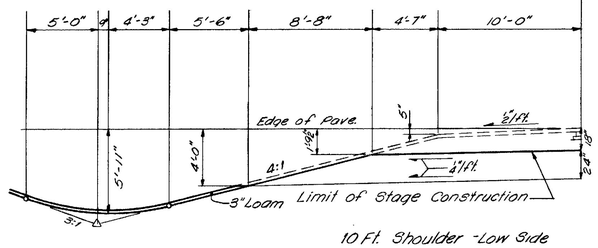
Sta 15+00 to 19+00 Ramp TPK-7



RAMP TPK-5 - 5 Ft. Earth Berm

24" Aggregate Subbase Course - Sand = 112.53 C.Y./100 L.F.

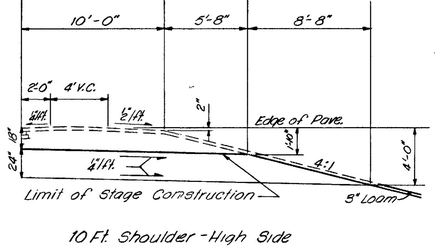
Sta 4+00 to 7+00



10 Ft. Shoulder - Low Side

24" Aggregate Subbase Crse.- Sand = 141.06 C.Y./100 L.F.

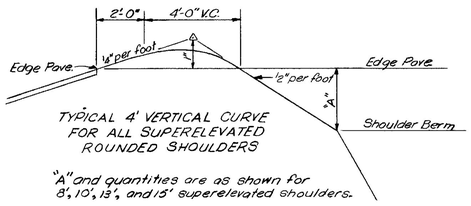
Sta 119+75 to 121+50 Lt. I-295



10 Ft. Shoulder - High Side

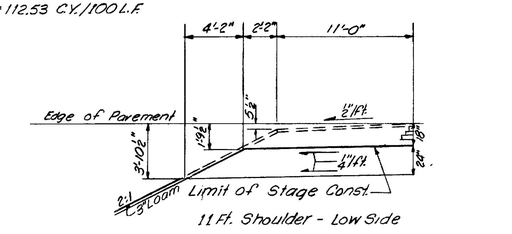
24" Aggregate Subbase Crse. - Sand = 144.55 C.Y./100 L.F.

Sta. 118+00 to 121+50 Rt. I-295



TYPICAL 4' VERTICAL CURVE FOR ALL SUPERELEVATED ROUNDED SHOULDERS

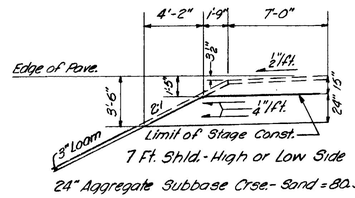
"A" and quantities are as shown for 8', 10', 13', and 15' superelevated shoulders.



11 Ft. Shoulder - Low Side

24" Aggregate Subbase Crse.- Sand = 112.74 C.Y./100 L.F.

Sta 10+00 to 17+50 Ramp TPK-6
Sta 0+00 to 6+75 Ramp TPK-7



7 Ft. Shld. - High or Low Side

24" Aggregate Subbase Crse.- Sand = 80.31 C.Y./100 L.F.

Sta. 2+50 to 3+00 Ramp TPK-5

Note: Dimensions and Quantities Shown with an Astersk (*) 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

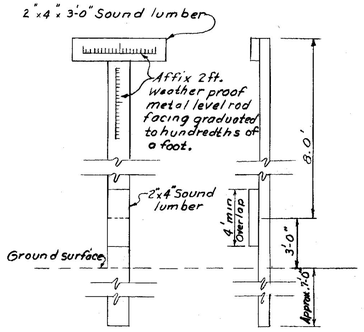
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

TYPICAL SECTIONS

BRUNING 44-302

- Scarborough

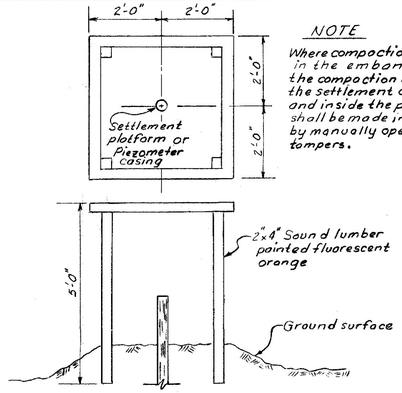
S. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-295-3(14)	7	103



DETAIL OF EMBANKMENT ALIGNMENT STAKE

NOT TO SCALE

(FURNISHING ONLY)

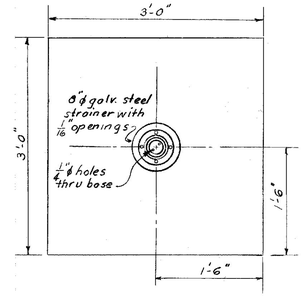


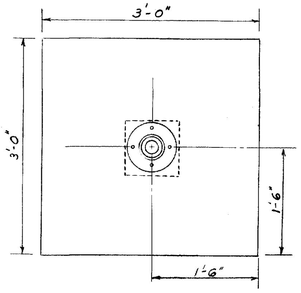
NOTE

Where compaction is required in the embankment the compaction of the fill around the settlement or piezometer pipe and inside the protective railing shall be made in progressive layers by manually operated mechanical tampers.

PROTECTIVE RAILING FOR SETTLEMENT PLATFORM AND PIEZOMETER

NOT TO SCALE

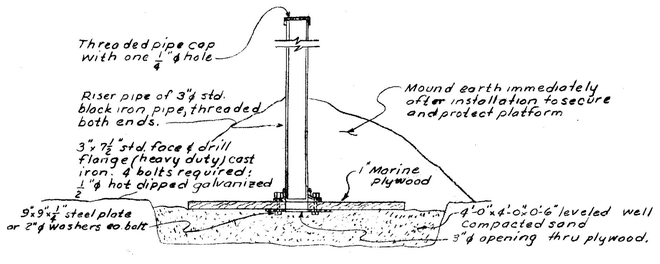




NOTES

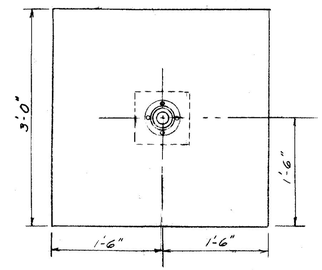
TYPE "B"

1. A 3"ϕ opening shall be cut thru the base plate; the center of the hole shall coincide with the centerline of the 3"ϕ pipe.
2. Each "Type B" platform shall be supplied with 3"ϕ riser pipes in 4 Ft. SECTIONS. The first 4FT Section of Riser pipe shall be considered incidental to the Settlement Platform; Couplings used to extend Riser pipes shall be incidental to Item 646.14 3"ϕ Riser Pipes.
3. The Contractor shall provide all Type "B" platforms for installation by the Engineer.



SETTLEMENT PLATFORM – TYPE B (FURNISHING ONLY)

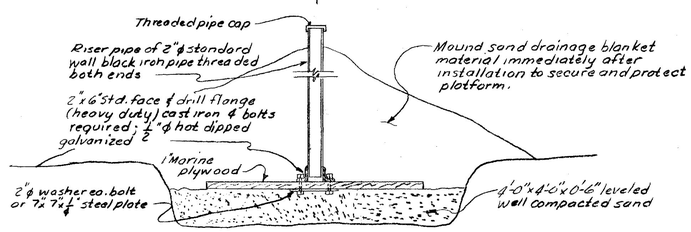
SCALE 1" = 1'-0"



NOTES

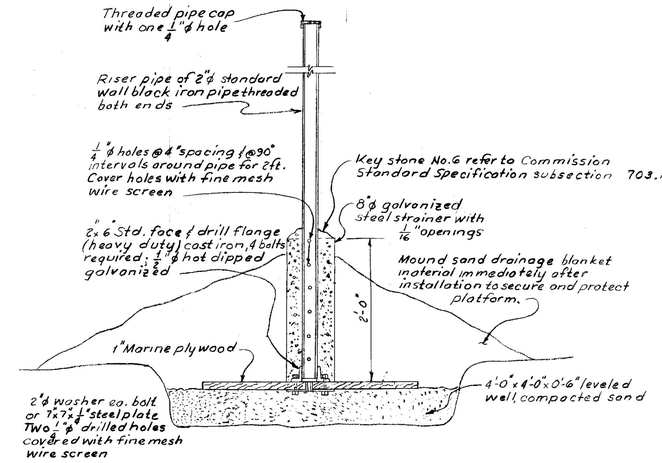
TYPE "C"

1. Each Type "C" platform shall be supplied with 2"ϕ riser pipes in 4ft sections. The first 4 ft Section of riser pipe Shall be considered incidental To the Settlement platform. Couplings used to extend Riser pipes Shall be incidental to "ITEM 646.13 3"ϕ Riser Pipes
2. The Contractor shall provide all Type "C" Settlement platforms for installation by the Engineer.



SETTLEMENT PLATFORM – TYPE C (FURNISHING ONLY)

SCALE 1" = 1'-0"



NOTES

TYPE "A"

1. Each TYPE "A" platform Shall be supplied with 2"ϕ riser pipes in 4ft sections. The first 4 ft. Section of riser pipe shall be considered incidental to the Settlement platform. Couplings used to extend Riser pipes shall be incidental to ITEM 646.13 2"ϕ riser pipe.
2. The Contractor shall provide all Type A Settlement platforms for installation by the Engineer

SETTLEMENT PLATFORM – TYPE A (FURNISHING ONLY)

SCALE 1" = 1'-0"

PLANS	DESIGN - DETAILED	CHECKED	REVISIONS	FIELD CHANGES
BY				
DATE				

STATE HIGHWAY COMMISSION

SPECIAL DETAILS

ALIGNMENT STAKE, PROTECTIVE RAILING SETTLEMENT PLATFORMS A, B & C

SHEET OF AUGUSTA, MAINE

203-1 2080

JANUARY 1969

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I - 295 - 3 (44)	55	103

PLAN — SURVEYED ___ DATE; PLOTTED ___ BY; ALIGNMENT CHECKED ___; GRADES CHECKED ___; RT. OF WAY CHECKED ___; NOTE BOOK ___; NO. ___

PROFILE — SURVEYED ___ DATE 7-2-74; PLOTTED ___ BY T.W.W. & R.C.A.; GRADES CHECKED ___; B. M.'S NOTED ___; CHECKED NOTATIONS CHKD ___; NOTE BOOK ___; NO. ___

Sta 55+37± to Sta 95+68± 175' Lt. I-295
Install Woven Wire-Metal Posts as directed by the Engineer.

Note: Fence shall not be placed across Red Brook unless otherwise directed by the Engineer.

Note: For Grading between Sta 60+00 & Sta 63+00 see Toll Plaza Grading Plan, Sheet No. 66

Sta 56+00
Begin Project I-295-3(44)45
Constructed 1971

Toll Plaza to be Constructed by others.

Sta 64+00 I-295 = ℄ Toll Plaza

Sta 64+75.00 I-295 = Sta 261+14.27 Acc. Rd.

N289,000

E452,000 E452,500 E453,000

Mixed Growth — Woods — Lawn — Gravel Drive — Fence — Shed — Hydrant — Gravel Dr.

8" Gas Main — 16" Cond. Water Main — 8" Cond. Water Main

Channel Diversion Limits — Clearing Limit Line — Relocated Channel Built 1971 — RED BROOK — Limit of Riprap — Selective Clearing & Thinning Limit Line — Clearing Limit

15' Shoulder — 10' Shoulder — 6:1

LIMIT OF WORK Sta 15+50 (Access Rd.)

℄ Access Road As Built 1971

℄ As Built 1971

CB Type B1 & 6" UD Type "B" Built 1971 140

24" x 88" RCP III Built 1971

24" x 100" RCP III Built 1971

Ditch out

Sta 19+50 ℄ Access Rd. Install 18"x48" BCCMP

Sta 60+50 ℄ Med. Const. C.B. Type B-1

Install 24"x88" RCP Rt. & 24"x100" RCP Lt. Const. Sodded Downspout.

Sta. 60+52 to 61+40 Install 6"x88" Type "B" U.D.

Set 1971

Match Line

PAYNE ROAD — Sta 53+50.00 Payne Rd. — Sta 48+77.02 Spring St. South — SPRING ST — Sta 47+28.00 Spring St. — Sta 47+90.02 Spring St. — Sta 10+65.62 Access Rd.

P.C. Sta 11+45.06 — 90° — 47°

ACCESS ROAD
P.I. Sta 13+02.68
Δ = 64°-27'-37"
D = 22°-54'-58"
R = 250.00'
T = 157.62'
L = 281.26'
E = 45.49'

P.I. Sta 53+93.03
Δ = 18°-45'-44" Rt.
D = 2°-00'-00"
R = 2864.79'
T = 396.56
L = 788.11'
E = 27.32

P.T. Sta 141+26.32

ACCESS ROAD
P.I. Sta 24+75.00
Δ = 90°00'-00"
D = 229°-10'-595"
T = 25.00'
L = 39.27'
R = 25.00'
E = 10.35'

Sta 48+77.02 Spring St. South

Sta 10+65.62 Access Rd.

Sta 47+90.02 Spring St.

Catch Basin - Type B-1
Sta 60+50 ℄ Med. I-295

6 Inch Underdrain, Type B
Sta 60+52 to Sta 61+40 - 88 L.F.

24" Reinforce Concrete Pipe
Sta 60+50 RT. to Lt. - 138 L.F.

18" Bit. Coated Cor. Metal Pipe
Sta 19+50 Access Rd. Rt. to Lt. - 43 L.F.

Clearing
Sta 55+50± to Sta 79+75± Lt.
Sta 54+75± to Sta 55+10± Rt.
Sta 55+10± to Sta 72+50 Rt.

Seeding Method No. 2
Sta 54+50± to Sta 97+00± Lt. & Rt.

Grubbing in Fill
Sta 55+40 to Sta 86+00

Survey Monuments
Sta 57+84.58 150.00' Lt.

Right of Way Monuments
Sta 57+84.58 200.00' Rt.
Sta 62+00.00 200.00' Rt.

Selective Clearing & Thinning
Sta 55+50± to Sta 79+00± Lt.
Sta 65+00± to Sta 72+50± Rt.

5" Aggregate Subbase Crse - Gravel
Sta 56+00 to 63+50 I-295
Sta 64+50 to 85+25 I-295

Woven Wire Fence-Metal Posts
Sta 55+37 ± to 95+68± Lt. 3,461 L.F.
Sta 55+10± to 82+95± Rt. 2,802 L.F.

Bracing Assembly, Type I - Metal Posts

Sta	55+10	190' Rt	I-295
Sta	55+37	175' Lt	I-295
	57+61	175' Lt	
	58+07	175' Lt	
	59+30	175' Lt	
	59+69	175' Lt	
	60+87	175' Lt	
	61+11	175' Lt	
	61+52	175' Lt	
	61+69	175' Lt	
	62+11	175' Lt	
	62+30	175' Lt	
	64+12	175' Lt	
Sta	64+33	175' Lt	I-295

Bracing Assembly, Type II - Metal Posts
Sta 60+33 200' Rt I-295

Sta 56+00
Begin Project I-295-3(44)

LIMIT OF STAGE CONSTRUCTION BUILT 1971

2.00%

V.C. = 500'
E = 1.062'

P.V.C.C. Sta 59+50

P.V.I. Sta 59+00
Elev. = 63.94

P.V.C. Sta 61+50

P.V.I. Sta 62+00
Elev. = 62.94

P.V.T. Sta 62+50

-0.30%

-0.30%

+0.50%

5-14" RCP

V.C. = 100'
E = 0.110'

P.V.C. Sta 63+50

P.V.I. Sta 64+00
Elev. = 63.94

P.V.T. Sta 64+50

-0.50%

V.C. = 100'
E = 0.063'

P.V.I. Sta 65+00
Elev. = 63.44

Revised As Built
C.W. Partridge 5-16-74

Toll Plaza to be Constructed by others.

NOTE:
1. THE CONTRACTOR SHALL HAVE ACCESS TO THE BEGINNING OF PROJECT FROM THE PAYNE ROAD LEFT OF THE INTERSTATE ℄ ONLY.

81.84 81.16 N.B. — 80.84 80.58 N.B. — 79.84 79.76 N.B. — 78.84 — 77.84 — 76.84 — 75.84 — 74.84 — 73.84 — 72.84 — 71.84 — 70.84 — 69.84 — 68.84 — 67.88 — 67.01 — 66.22 — 65.52 — 64.90 — 64.37 — 63.92 — 63.56 — 63.23 — 63.09 — 63.04 — 63.19 — 63.44 — 63.69 — 63.94 — 63.69 — 63.36

50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65

70 60 50

K&E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.

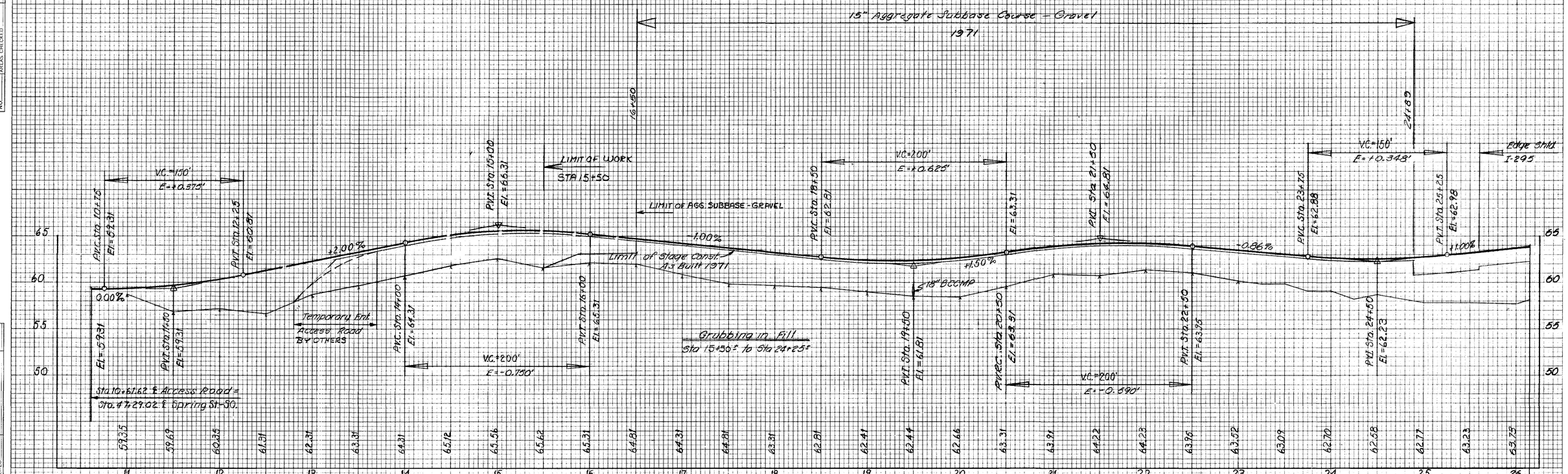
I-295 Scarborough - South Portland

5

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-295-3(A2)	56	103

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

ORIGINAL SURVEY — NOTE BOOK — NO. 2984 — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY EJG CLA — DATE 2/69



ACCESS ROAD

Revised As Built
C.W. Parker Jr.
5-16-74

ACCESS ROAD
PROFILE

K&E PLATE 3, CROSS SECTION
KEUFFEL & ESSER CO.

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I - 295 - 3 (44)	57	103

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

E453,500 E454,000 E454,500

I-295
P.I. Sta. 75+01.28
Δ = 15°-08'-49.6"
D = 1°-00'-00"
R = 5,729.578'
T = 761.798'
L = 1514.711'
E = 50.422'

N289,000

P.L. — RED BROOK — P.L. — P.L.

Set 1971

Limit of Riprap — Relocated Channel Built 1971 — Limit of Riprap

Channel to be Backfilled, Graded, Loam and Seeded as Directed by the Engineer.

Selective Clearing & Thinning Limit Line 7

10' TOTE ROAD

Sta 66+58 to Sta 68+48 ℄ Med. Install 6"x190' Type "B" U.D.

Note: For Grading Between Sta 65+00 and Sta 68+00 See Toll Plaza Grading Plan, Sh. 42

Sta 68+50 ℄ Med. Const. Type B-1 C.B. Install

Sta 68+52 to Sta 73+98 ℄ Med. Install 12"x546' Type "C" U.D.

WOODS

Selective Clearing & Thinning

Sta 74+00 ℄ Med. Const. Type B-1 C.B. Install 24"x98' RCP Rt. & 24"x88' RCP Lt.

Sta 75+50± Lt. Item No. 202.0801 Remove Building No. 1, ½ Sty. Ho.

Sta 75+95± Lt. Item No. 202.0802 Remove Building No. 2, Garage

Sta 76+45± Lt. Item No. 202.0803 Remove Building No. 3, Hen House

Bldg #2 — Removed 1971 — Bldg #3 Reserved (JAN 15 1971) — Hen House Removed 1971 — ½ Sty. Ft. Ho. Removed 1971

Selective Clearing & Thinning Limit Line 7

Clearing Limit Line

Garden — Reserved (JAN 15 1971) Limit Line 7

Sta 76+97± 45° Rt. Item 202.0804 Remove Building No. 4, Garage

Bldg #4 — Removed 1971 (Garage)

Selective Clearing & Thinning WOODS

Town Line — Portland — Scarborough

Clearing Limit Line

Sta 74+10 to Sta 79+48 ℄ Med. Install 6"x 538' Type "B" U.D.

Sta 79+50 ℄ Med. Const. C.B. Type B-1

Sta 79+52 to Sta 84+28 ℄ Med. Install 12"x 476' Type "C" U.D.

Note:
Contractor Must Maintain Drive Between Reserved Areas LT. AND RT. OF Sta 76+10 UNTIL JANUARY 1ST 1971

C.B. B-1 Built 1971 — Type "B" U.D. Built 1971 — 12" Type "C" U.D. Built 1971 — ℄ As Built 1971 — 24"x 88' RCP Built 1971 — 24"x 22' RCP III Built 1971

Garden — Garage — Fruit trees — Birches — Spring Hole — 8" Tile Pipe Spring — Reserved Limit — Limit — Line — Fence — Stone Wall — Stone Bank Wall — Edge of Pavement — Limit of Reserved Area (Jan 15 1971)

Clearing Limit Line — FIELD — Set 1971

175' — 200' — 125' — 175' — 24' — 40' — 80' — 20' Slope

+49 +56 — 65 — 66 — 67 — 68 — 69 — 70 — 71 — 72 — 73 — 74 — 75 — 76 — 77 — 78 — 79 — 80

S 85° 46'-00.0" E

-6" — -3" — 0" — +3" — +6"

Right of Way Monuments

Sta 65+49.00	175.00' Rt.
Sta 65+56.00	200.00' Rt.
Sta 67+39.48	175.00' Lt. & Rt.
Sta 74+50.00	175.00' Lt. & Rt.

Survey Monuments

Sta 67+39.48	125.00' - Lt.

Catch Basin - Type B-1

Sta 68+50 ℄ Med. I-295
Sta 74+00 ℄ Med. I-295
Sta 79+50 ℄ Med. I-295

6 Inch Underdrain, Type "B"

Sta 66+58 to Sta 68+48 = 190 L.F.
Sta 74+10 to Sta 79+48 = 538 L.F.

12 Inch Underdrain, Type "C"

Sta 68+52 to Sta 73+98 = 546 L.F.
Sta 79+52 to Sta 84+28 = 476 L.F.

24" Reinforced Concrete Pipe

Sta 74+00 Rt. & Lt. - 180' L.F.

Selective Clearing & Thinning

Sta 77+00± to Sta 80+50± Lt.
Sta 75+50± to Sta 82+00± Rt.

Bracing Assembly, Type II - Metal Posts

Sta 65+49	175' Rt.	I-295
Sta 65+56	200' Rt.	I-295
Sta 71+30	175' Rt.	I-295
Sta 77+10	175' Rt.	I-295

Bracing Assembly, Type I - Metal Posts

(All 175' Lt. I-295)

Sta 66+05	Sta 71+74
66+51	72+65
67+20	72+93
67+40	73+20
68+70	73+46
68+90	73+96
69+43	74+12
70+10	74+90
71+49	75+12

PROFILE — SURVEYED — PLOTTED — NOTE BOOK — GRADES CHECKED — NO. — BY — DATE — T.J.W. — P.R.C.A. — 7-2-69 — BR. M.S. NOTED. STRUCTURE NOTATIONS CHKD.

V.C. = 100'
E = 0.087'

P.V.I. Sta. 65+00 Elev. = 63.44
P.V.T. Sta. 65+50
P.V.C. Sta. 66+50
P.V.I. Sta. 67+00 Elev. = 61.44
P.V.T. Sta. 67+50

-1.00%

-0.30%

LIMIT OF STAGE CONSTRUCTION As Built 1971

5" Agg. Subbase Crse = Gravel Sta. 50+00 to 85+25

5-24" RCP

1971

Revised As Built C.W. Ritzy Jr. 5-16-74

63.38 — 62.94 — 62.44 — 61.94 — 61.53 — 61.29 — 61.14 — 60.99 — 60.84 — 60.69 — 60.54 — 60.39 — 60.24 — 60.09 — 59.94 — 59.79 — 59.49 — 59.49 — 59.34 — 59.19 — 59.04 — 58.89 — 58.74 — 58.59 — 58.44 — 58.29 — 58.14 — 57.99 — 57.84 — 57.69 — 57.54

70 — 60 — 50 — 40

65 — 66 — 67 — 68 — 69 — 70 — 71 — 72 — 73 — 74 — 75 — 76 — 77 — 78 — 79 — 80

K+E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.

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

LEGEND - SAND DRAINS
- 18" Dia. Sand Drains, 18'C-C Triangular Spacing
- 18" Dia. Sand Drains, 16'C-C Triangular Spacing
- 18" Dia. Sand Drains, 20'C-C Triangular Spacing

E455000 E456000 N289000

Lot Line

3-60 TYPE DA

28 2-700

47 Removed By Others 1971

Limit of Riprap

Clearing Limit Line

Selective Clearing & Thinning

Relocated Built 1971 Channel

Backfill, Grade, Loam and Seed as directed by the Engineer.

FG-10'

SAND DRAINS 18'C-C AVERAGE DRAIN TIP elev. -10

CMP Sect 160 28 Removed By Others 1971

Sta 82+54.19 PT

12" Type "C" U.D. Built 1971

10' Shoulder

POWER LINE

WOODS

CMP Sect 191 48 Removed By Others 1971

Match Line

So. Portland Scarborough Town Line

Sta 84+30 & Med. Const. C.B. Type B-1. Install 12"x84' RCP outlet Rt.

Sta 84+32 to Sta 85+22 & Med. Install 6"x90' Type "B" U.D.

Sta 84+00 TPK-7 Ramp

Sta 85+77.78 I-295

C.B. Type "B" U.D. Built 1971

N 83°-05'-06.4"E

12"x84' RCP Built 1971

24"

11' Shoulder

Sta 87+67 & Med., Skewed Ahd 2° Rt. Const. 158"x200' Struct. Plate Pipe For detail see Sheet 52

Sta 88+50 & Med. Const. C.B. Type B-1. Install 12"x78' RCP outlet Lt. Const. Sodded Downspout

Sta 92+50 & Med. Const. C.B. Type B-1. Install 12"x72' RCP outlet Lt. Const. Sodded Downspout

Sta 93+00, 98' Lt to Sta 7+00 50' Rt. Ramp TPK-7. Install 24"x244' RCP

Selective Clearing & Thinning

Sta 91+60, 60' Rt to Sta 96+00, 142' Rt. Install 6"x450' Type "B" Underdrain. Begin. Inv. 5350

SAND DRAINS 20'C-C AVERAGE DRAIN TIP elev. +10

SAND DRAINS 20'C-C AVERAGE DRAIN TIP elev. +10

SAND DRAINS 20'C-C AVERAGE DRAIN TIP elev. +10

FG-13'

SAND DRAINS 16'C-C

SAND DRAINS 16'C-C AVERAGE DRAIN TIP elev. -15

Type "B" U.D. Built 1971

Ramp TPK-7

Curve 125

RAMP TPK-7
P.I. Sta 8+51.41
Δ = 41-01-23.5 Rt
D = 12-03-44.2
R = 475.00
T = 177.70
L = 340.09
E = 32.15

Slope Limit

Match Line

Set 1971

Clearing
Sta 83+27± to Sta 99+00± Lt & Rt.

24" Reinforced Concrete Pipe
Sta 93+00 Lt I-295 to Sta 7+00 Rt TPK-7 244 L.F.

18" Reinforced Concrete Pipe
Sta 84+30 - 84 L.F.
Sta 88+50 - 72 L.F.
Sta 92+50 - 72 L.F.

Bracing Assembly, Type II - Metal Posts
Sta 90+67 175' Lt. I-295
Sta 6+73.77 125' Rt. Ramp TPK-7

Drive Gateways - 16 Feet - Metal
Sta 80+70 to 80+86 175' Lt
Sta 82+35 to 83+11 175' Rt

Catch Basin, Type B-1
Sta 84+30 & Med. I-295
Sta 88+50 & Med. I-295
Sta 92+50 & Med. I-295

6 Inch Underdrain, Type "B"
Sta 84+32 to Sta 85+22 -90 L.F.
Sta 91+60 to Sta 96+00 Rt -440 L.F.

Sta 84+00 TPK-7 Ramp

Erosion Control Mesh
Sta 85+25 to Sta 86+50 Rt.
Sta 92+50 to Sta 93+43 Rt.

Woven Wire Fence - Metal Posts
Sta 83+11 Rt I-295 to 16+64 Rt TPK-7
1896 L.F.

V.C. = 1000'
E = 2.875'

INSTRUMENTATION KEY
- TYPE A SETTLEMENT PLATFORM
- TYPE B SETTLEMENT PLATFORM
- TYPE C SETTLEMENT PLATFORM
- PIEZOMETER
- DEEP SETTLEMENT POINT

Survey Monuments
Sta 6+73.77, 75.00' Rt. Ramp TPK-7

Right of Way Monuments
Sta 82+54.19 175.00' Rt & Lt.
Sta 86+59.31 175.00' Rt
Sta 84+00.00 175.00' Lt
Sta 6+73.77, 125.00' Rt. Ramp TPK-7

P.V.I. Sta 93+00

+2.00%

Selective Clearing & Thinning
Sta 82+50± to Sta 96+00± Lt
Sta 84+00± to Sta 9+00 Rt. Ramp TPK-7

-0.30%

P.V.I. Sta 83+00

LIMIT OF STAGE CONSTRUCTION As Built 1971

Bracing Assembly, Type I - Metal Posts

Sta	80+70	175' Lt	I-295
	80+86	175' Lt	
	83+89	175' Lt	
	84+18	175' Lt	
	85+78	175' Lt	
	86+02	175' Lt	
Sta	82+95	175' Rt	I-295
	83+11	175' Rt	
Sta	21+30	125' Rt	Ramp Tpk-7
	24+48	125' Rt	
	31+24	125' Rt	
	37+48	125' Rt	

138" Str. Plate Pipe

P.V.I. Sta 88+00
Elev = 55.14

PEAT
Approximate Peat Limit Line

24" R.C.P

Revised As Built
C.V. Rotary Jr. 5-17-74

57.54 57.39 57.24 57.09 56.94 56.79 56.64 56.52 56.46 56.45 56.50 56.61 56.78 57.00 57.28 57.62 58.02 58.47 58.98 59.55 60.18 60.86 61.60 62.40 63.26 64.17 65.14 66.14 62.14 68.14 69.14

80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95

60 50 40 30

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

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, BASE MAPS, STRUCTURE NOTATNS CHKD, DATE 7-3-69, BY T.J.W. & R.C.A.

K-E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	295-3(44)	59	103

Remove Interst. Mon. 1971
Sta 49+50, 150' Rt. Cost considered Incident to Item 203.20 Common Excav.

Sta 96+00 ℄ Med. Const. C.B. Type B-1. Install 12"x76' RCP & 18"x28' Metal Sluice with Sodded end. Built 1971 FG-10'

Sta 101+95, 130' Lt. Ramp TPK-5 Const. C.B. Type B-1 Install 12"x180' RCP Outlet Rt. Built 1971

Sta 10+50, 1.87' Rt. Ramp TPK-5 Install C.B. Type "F". Install 12"x16' RCP & 15"x32' Metal Sluice. Built 1971

Sta 4+00, 1.87' Rt. Ramp TPK-5 Install C.B. Type "F" Install 12"x24' RCP Built 1971

Sta 2+95 Skewed Back 15° Lt. Ramp TPK-5 Construct 138"x90' Structural Plate Pipe. For details see Sht 53 Built 1971

Sta 7+00, 1.87' Rt. Ramp TPK-5 Const. C.B. Type B-1. Install 12"x28' RCP outlet Rt. Built 1971

Channel to be backfilled, graded, loomed and seeded as directed by Engr.

Sta 12+70 Skewed Ah. 30° Lt. Ramp TPK-7 Construct 138"x212' Structural Plate Pipe For details see Sheet 53 Built 1971

Sta 17+95, 13.87' Lt. Ramp TPK-7 Install C.B. Type "F" Install 12"x40' RCP outlet Rt. Built 1971

Sta 15+28, 13.87' Lt. Ramp TPK-7 Install C.B. Type "F" Install 12"x19' RCP C.B. to C.B. Built 1971

Sta 20+00 Ramp TPK-7 Install 36"x80' RCP Built 1971

Sta 105+50 ℄ Med. Const. C.B. Type B-1. Install 12"x88' RCP Rt. & 18"x42' Metal Sluice with Sodded end Built 1971

Sta 109+00 ℄ Med. Const. C.B. Type B-1. Install 12"x38' RCP Rt. Const. Sodded Downspout Built 1971

Sta 108+05 ℄ Med. Skewed Ah. Lt. 18° (Inlet to be in existing channel) Install 138"x316' Structural Plate Pipe. For details see Sht. 54 Built 1971

Selective Clearing & Thinning

Clearing Limit Line

Cross Hatched Area Not To Be Selective Cleared

Cross Hatched Areas Not To Be Selective Cleared.

Woven Wire Fence Installed 1971 In slope to be rip rapped as directed by the Engr.

Rip Rap (Excavate Pool)

Excavate Pool

Channel Diversion Limits

Ditch Out

Ditch out

Match Line

Light Pole

CMP ∫228.05

RED BROOK

Survey Mon. Set 1971

Set 1971

Ramp TPK-5

Ramp TPK-6

Ramp TPK-7

Curve 116

Curve 117

Curve 125

Curve 126

Curve 127

Sta 10+00 to Sta 22+30 Ramp TPK-7
Sta 1+00 to Sta 14+50 Ramp TPK-5
Sta 106+00 to Sta. 112+75 Rt.

Sta 16+90, 20' Rt. Ramp TPK-5 to Sta 120+50, 150' Rt I-295-1527 L.F.

Sta 105+50 Rt., TPK-5 32 L.F.

Sta 96+00 Lt. I-295 28 L.F.
Sta 105+50 Rt., I-295 42 L.F.

Sta 102+75± to Sta 116+35± Lt & Rt

Sta 91+60, 60' Rt to Sta 96+00, 142' Rt 440 L.F.

Sta 20+00 TPK-7 80 L.F.

Bracing Assembly, Type II-Metal Posts

Sta 11+50 125' Rt Ramp TPK-7
Sta 17+00 175' Rt Ramp TPK-6
Sta 17+00 125' Rt Ramp TPK-6

Bracing Assembly, Type I-Metal Posts

Sta 95+68 175' Lt I-295
Sta 11+79 125' Rt Ramp TPK-7
Sta 12+13 125' Rt Ramp TPK-7
Sta 16+64 125' Rt Ramp TPK-7

Right of Way Monuments

Sta 95+67.83, 175.00' Lt. I-295
Sta 13+75.56, 125.00' Rt. Ramp TPK-7
Sta 16+64.00, 125.00' Rt. " "
Sta 10+13.87, 125.00' Rt. Ramp TPK-5
Sta 20+56.02, 125.00' Rt. Ramp TPK-5
Sta 17+00.00, 175.00' Rt. Ramp TPK-6
Sta 17+00.00, 125.00' Rt. " "
Sta 17+50.62, 125.00' Rt. " "

Survey Monuments

Sta 10+13.87, 75.00' Rt. Ramp TPK-7
Sta 13+75.56, 75.00' Rt. " "
Sta 17+22.79, 75.00' Lt & 50' Rt " "
Sta 19+59.76, 75.00' Rt. " "
Sta 19+59.76, 125.00' Rt. " "
Sta 21+67.30, 75.00' Rt. " "
Sta. 21+67.30, 150.00' Rt. " "

Sta 0+00.00, 100' Rt. Ramp TPK-5
Sta 1+41.53, 100' Rt. Ramp TPK-5
Sta 1+80.07, 50' Rt. " "
Sta 1+80.07, 100' Rt. " "
Sta 17+50.62, 80' Rt Ramp TPK-6

Sta 16+90 20' Rt Ramp TPK-5
17+73 113' Rt " "
20+00 125' Rt " "
20+67 125' Rt " "
21+12 125' Rt " "
21+50 125' Rt " "

Catch Basin, Type B-1

Sta 96+00 ℄ Med. I-295
Sta 105+50 ℄ Med. I-295
Sta 109+00 ℄ Med. I-295
Sta 7+00, 1.87' Rt. TPK-5
Sta 101+95, 130' Lt. TPK-5

Catch Basin, Type "F"

Sta 4+00, 1.87' Rt. TPK-5
Sta 10+50, 1.87' Rt. TPK-5
Sta 15+28, 13.87' Lt. TPK-7
Sta 17+95, 13.87' Lt. TPK-7

12" Reinforced Concrete Pipe

Sta 96+00	I-295	76 L.F.
Sta 105+50	I-295	88 L.F.
Sta 109+00	I-295	96 L.F.
Sta 4+00	Ramp TPK-5	24 L.F.
Sta 7+00	Ramp TPK-5	28 L.F.
Sta 10+50	Ramp TPK-5	16 L.F.
Sta 10+95	Ramp TPK-5	180 L.F.
Sta 15+28	Ramp TPK-7	19 L.F.
Sta 17+95	Ramp TPK-7	40 L.F.

Metal Sluice (18" Diameter)

24" Reinforced Concrete Pipe

Clearing

6" Underdrain, Type "B"

Selective Clearing & Thinning

Woven Wire Fence - Metal Posts

LEGEND - SAND DRAINS

- 18" Dia. Sand Drains, 8'-0" C-C Triangular Spacing
- 18" Dia. Sand Drains, 16'-0" C-C Triangular Spacing
- 18" Dia. Sand Drains, 20'-0" C-C Triangular Spacing

CURVE DATA

CURVE 116	CURVE 117	CURVE 125	CURVE 126	CURVE 127
P.I. Sta	P.I. Sta. 0+91.26	P.I. Sta. 8+36.17	P.I. Sta. 20+90.59	P.I. Sta 15+80.49
Δ = 29°-19'-44.5" Rt.	Δ = 22°-55'-38" Rt.	Δ = 41°-01'-23.5" Rt.	Δ = 67°-43'-57.3" Rt.	Δ = 76°-48'-49.5" Lt.
D =	D = 12°-43'-56.6"	D = 12°-03'-44.2"	D = 38°-11'-49.9"	D = 22°-07'-18.9"
R = 225.00'	R = 450.00'	R = 475.00'	R = 150.00'	R = 259.00'
T =	T = 91.26'	T = 177.70'	T = 100.83'	T = 205.33'
L = 1170.42'	L = 180.07	L = 340.09'	L = 177.54'	L = 347.23'
E =	E = 9.15'	E = 32.15'	E = 30.74'	E = 71.52'

Revised As Built C.W. Ritzy Jr. 5-20-74

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

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STA 95+00 - STA 110+00
RAMPS TPK.5, TPK.6 & TPK.7
STATE ROUTE 703

BRUNING 44-302

I-295 Scarborough - South Portland

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