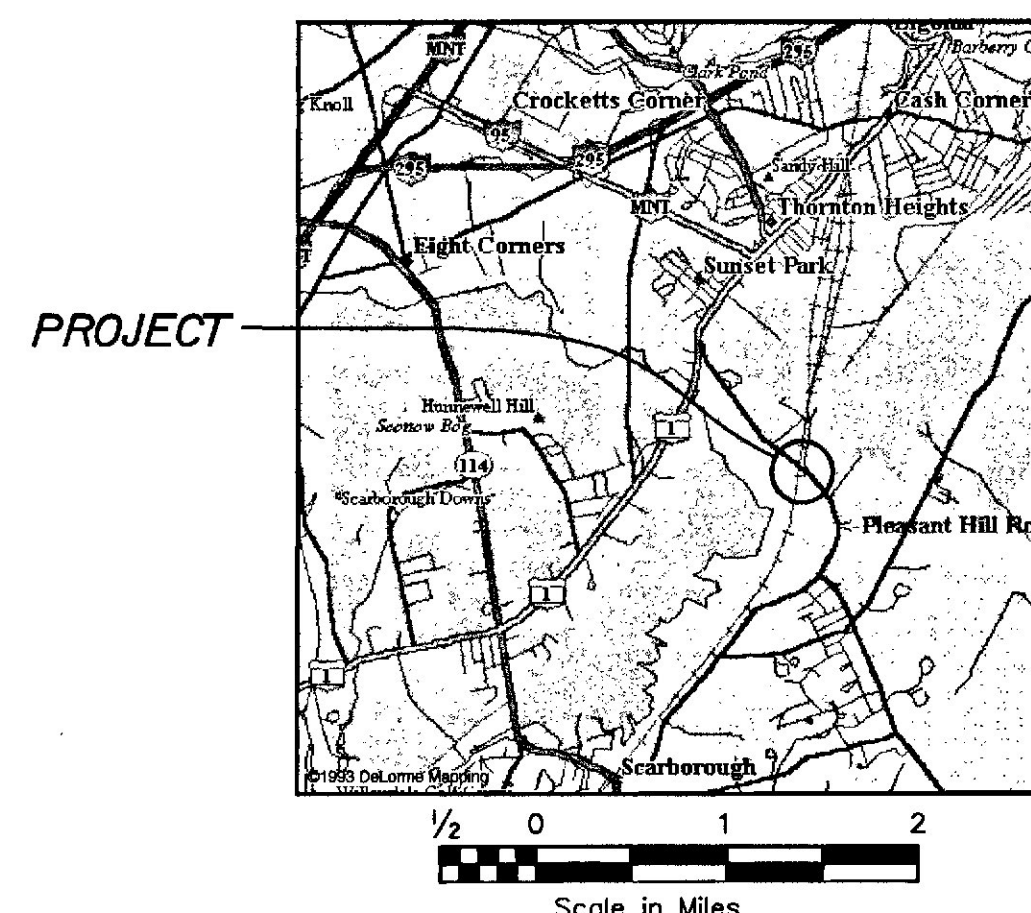


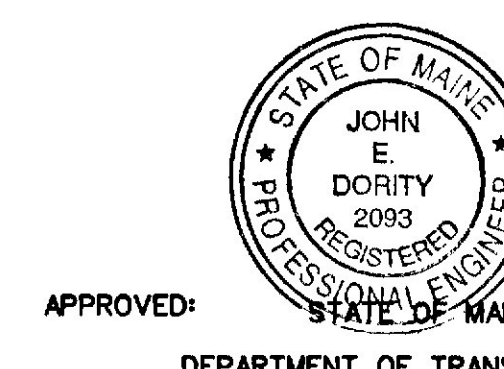
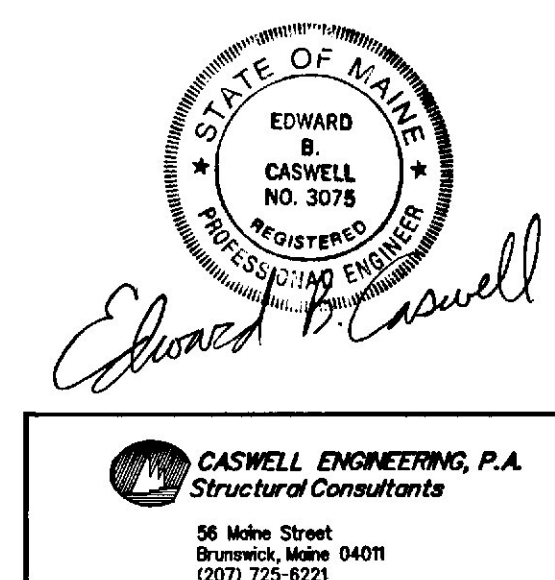
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PLANS
PLEASANT AVENUE CROSSING
OVER
B&M RAILROAD
IN THE TOWN OF

SCARBOROUGH
CUMBERLAND COUNTY
PROJECT NUMBER BR-0527(1)X
PROJECT LENGTH 0.152 MILES



LOCATION MAP

All work contemplated under this contract to be governed by and in conformity with the STANDARD SPECIFICATIONS (revision of April, 1995) and supplementals thereto, except as modified on the plans and in the special provisions.



COMMISSIONER
CHIEF ENGINEER

DATE
12/6/96
12/5/96

UNITED STATES DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION REGION 1	
APPROVED:	DATE
DIVISION ADMINISTRATOR	

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BRIDGE STANDARD DETAILS

BD 461-95	PERMANENT CONCRETE BARRIER
BD 464-95	BARRIER-MOUNTED RAILING: 2-BAR
BD 501-93	SUBSTRUCTURE DETAILS
BD 521-93	SUPERSTRUCTURE DETAILS

HIGHWAY STANDARD DETAILS

HD-3	OCT 95	CULVERT INLETS & OUTLETS, ETC.
HD-5	OCT 95	DRIVES & ENTRANCES
HD-7	MAY 96	EROSION CONTROL, ETC.
HD-9	OCT 95	FENCING
HD-10	MAY 96	MAINTENANCE OF TRAFFIC
HD-11	MAY 96	MAINTENANCE OF TRAFFIC
HD-12	MAY 96	MAINTENANCE OF TRAFFIC
HD-13	OCT 93	PAVEMENT MARKINGS
HD-15	OCT 93	GEOTEXTILES
HD-16	MAY 96	EROSION CONTROL
HD-17	MAY 96	MODIFIED ECCENTRIC LOADER TERMINAL

TRAFFIC DATA

Current (1992) AADT	8150
Future (2012) AADT	13040
DHV - % of AADT	11
Design Hour Volume	1434
% Heavy Trucks (AADT)	9
% Heavy Trucks (DHV)	5
Directional Distribution (DHV)	50
18 Kip Equivalent P 2.5	269

UTILITIES

CMP Co.
Nynex Co.
AT&T
Sprint
B&MRR
Public Cable
Portland Water District

SPECIFICATIONS

DESIGN: AASHTO Standard Specifications for Highway Bridges, 1992 with Interims 1993, 1994, 1995.
CONTRACT: State of Maine, Department of Transportation Standard Specifications for Highways and Bridges, Revisions of April, 1995.

DESIGN LOADING

LIVE LOAD: HS25 STRESS CYCLES: 500,000

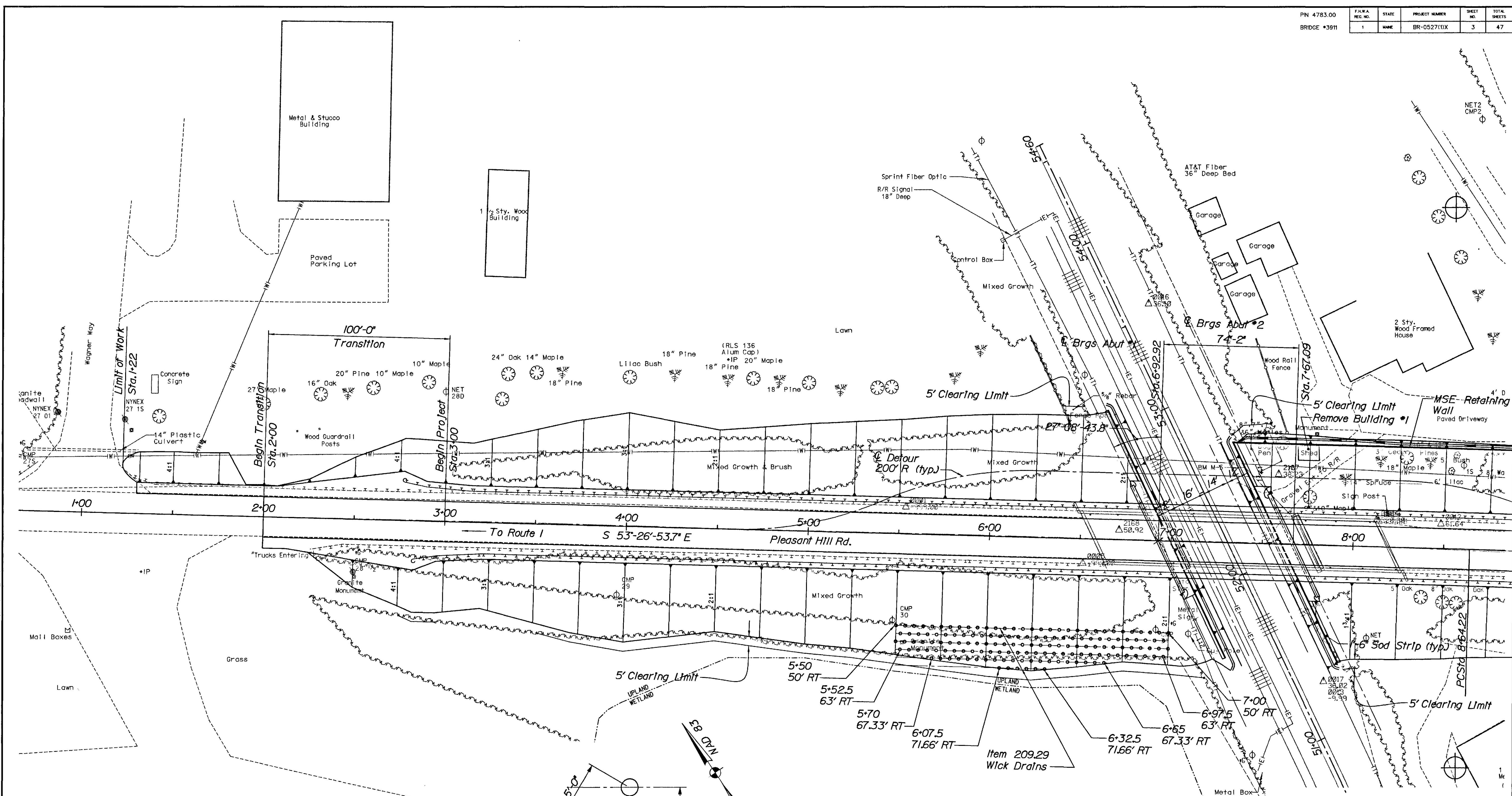
MATERIALS

CONCRETE (Unless otherwise noted) CLASS A
REINFORCING STEEL ASTM A615, GRADE 60
STRUCTURAL STEEL ASTM A270, GRADE 50W
High Strength Bolts ASTM A325 Type 3

BASIC DESIGN STRESSES

CONCRETE (Unless otherwise specified) $f'_c=4,000$ psi
REINFORCING STEEL $F_y=60,000$ psi
STRUCTURAL STEEL $F_y=50,000$ psi

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.

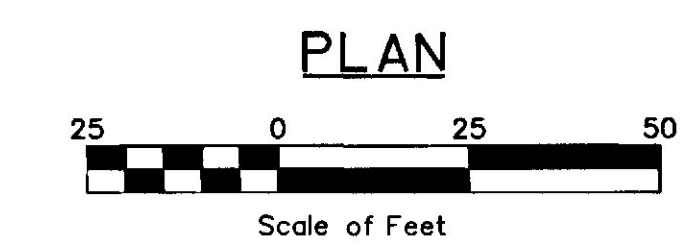
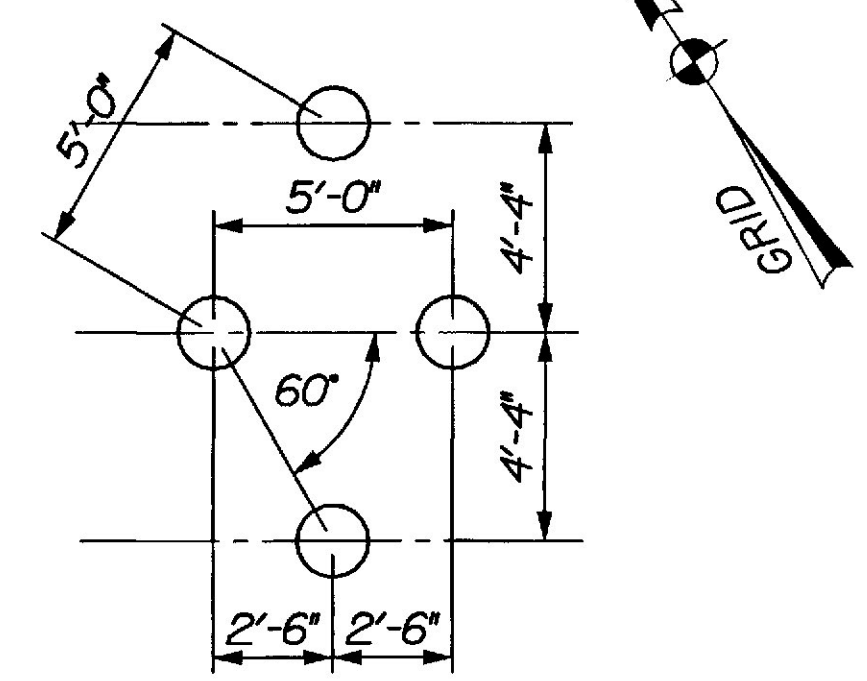


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DESIGN-DETAILED	JAC	BY	JAC
CHECKED	JAB	DATE	11-96
REVISIONS			
FIELD CHANGES			

ITEM 202.08
REMOVING EXISTING BUILDING
Sta. 7+75 +/- LT Building #1

ITEM 204.41
REHAB. OF EXISTING
SHOULDER, PLAN QUANTITY
Sta. 1+30 to 2+00 LT

BENCH MARK: BM-M-5
U.S.C. & G.S. Quad 43701 reset 1950
brass disk set vertical in NW face of
NE end of SE pier of RR overpass.
Elev. 37.874



NOTE:
Wick drains shall be placed to Elevation 12.0.

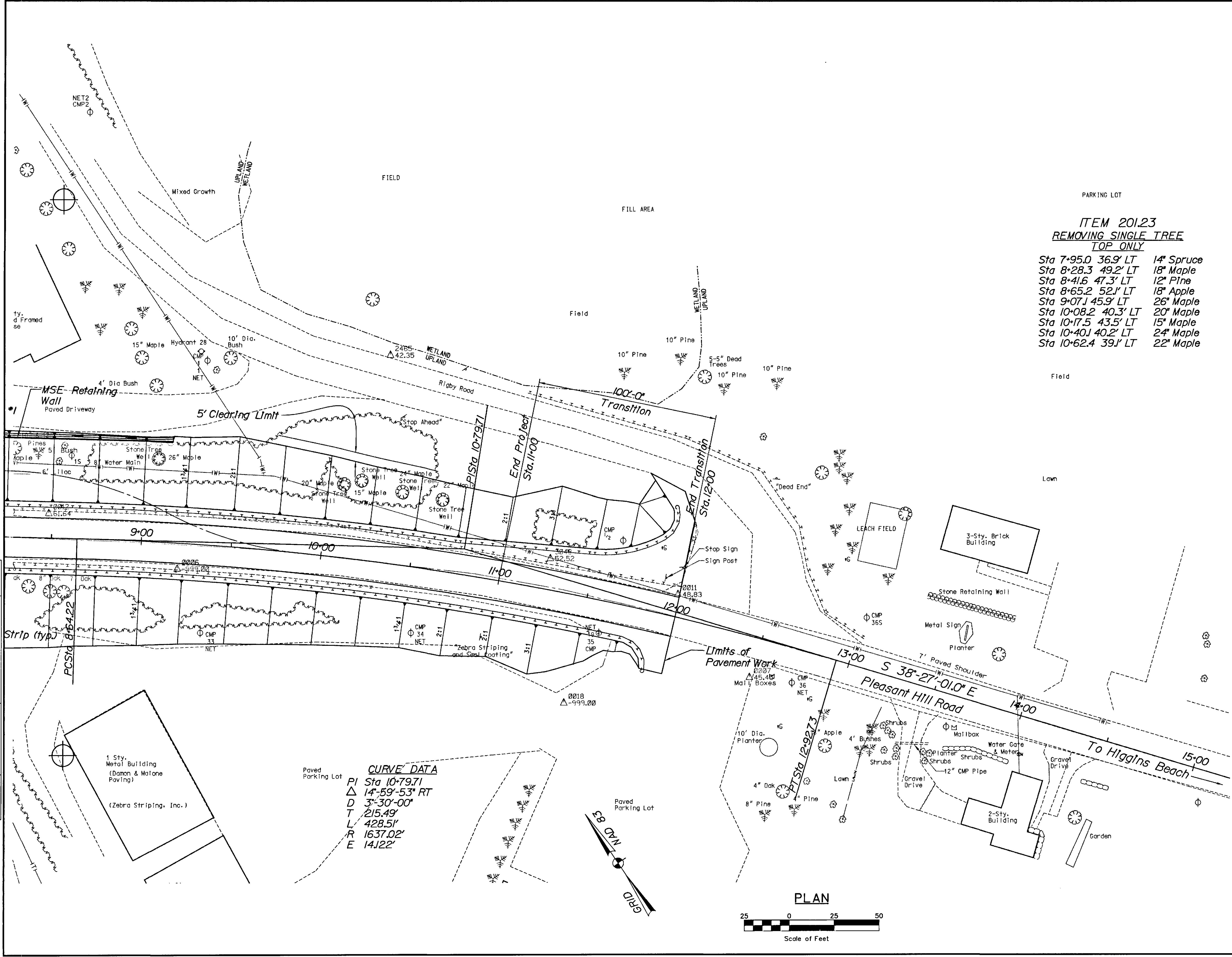
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PLEASANT AVENUE CROSSING
OVER
B&M RAILROAD
IN THE TOWN OF
SCARBOROUGH
CUMBERLAND COUNTY
PLAN

AUGUSTA, MAINE

PROJECT DESIGN ENGINEER	EBC	DATE	11-96
DESIGN-DETAILED	JCC	BY	JCC
CHECKED	JAB	DATE	11-96
REVISIONS			
FIELD CHANGES			

PLANS



ITEM 201.23
REMOVING SINGLE TREE
TOP ONLY

Sta 7+95.0	36.9' LT	14" Spruce
Sta 8+28.3	49.2' LT	18" Maple
Sta 8+41.6	47.3' LT	12" Pine
Sta 8+65.2	52.1' LT	18" Apple
Sta 9+07.1	45.9' LT	26" Maple
Sta 10+08.2	40.3' LT	20" Maple
Sta 10+17.5	43.5' LT	15" Maple
Sta 10+40.1	40.2' LT	24" Maple
Sta 10+62.4	39.1' LT	22" Maple

ITEM 201.24
REMOVING STUMP

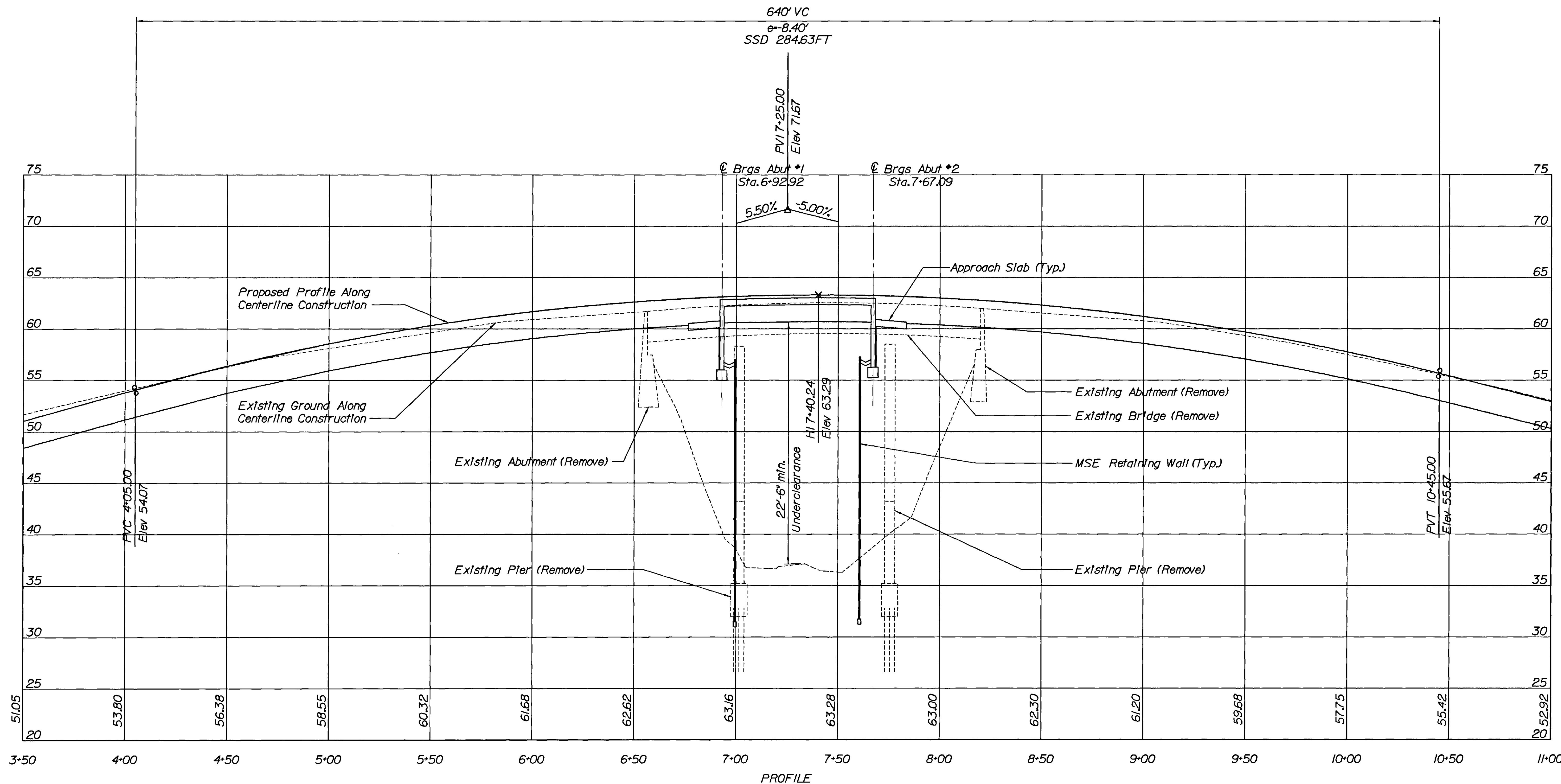
Sta 7+95.0	36.9' LT	14" Spruce
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Sta 10+17.5	43.5' LT	15" Maple
Sta 10+40.1	40.2' LT	24" Maple
Sta 10+62.4	39.1' LT	22" Maple

ITEM 656.631
15 INCH TEMPORARY SILT FENCE

Sta 2+00 to 6+64	LT	464 LF
Sta 7+32 to 12+00	LT	468 LF
Sta 2+00 to 7+35	RT	535 LF
Sta 7+95 to 12+00	RT	405 LF

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PLEASANT AVENUE CROSSING
OVER
B&M RAILROAD
IN THE TOWN OF
SCARBOROUGH
CUMBERLAND COUNTY
PLAN
AUGUSTA, MAINE



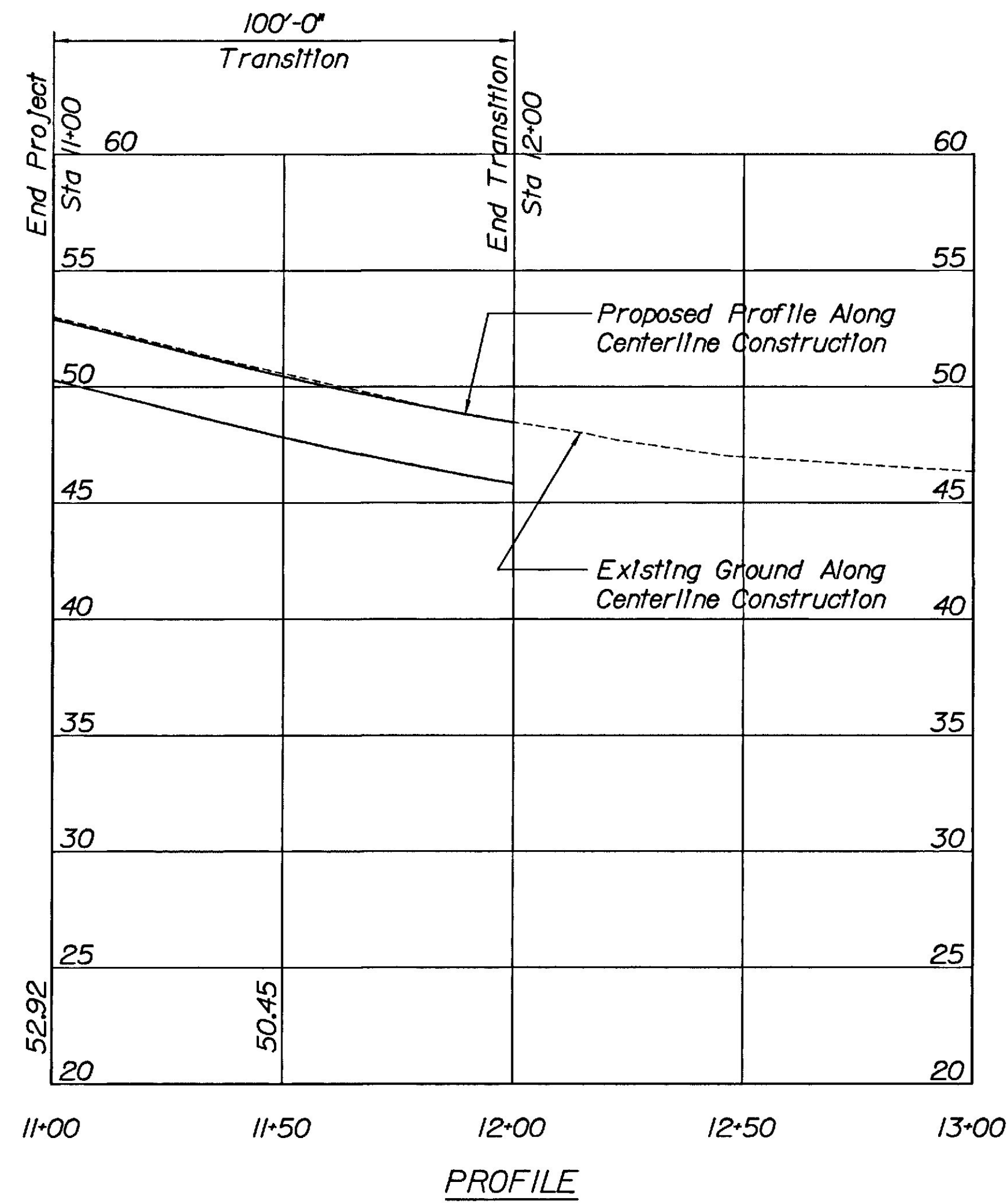
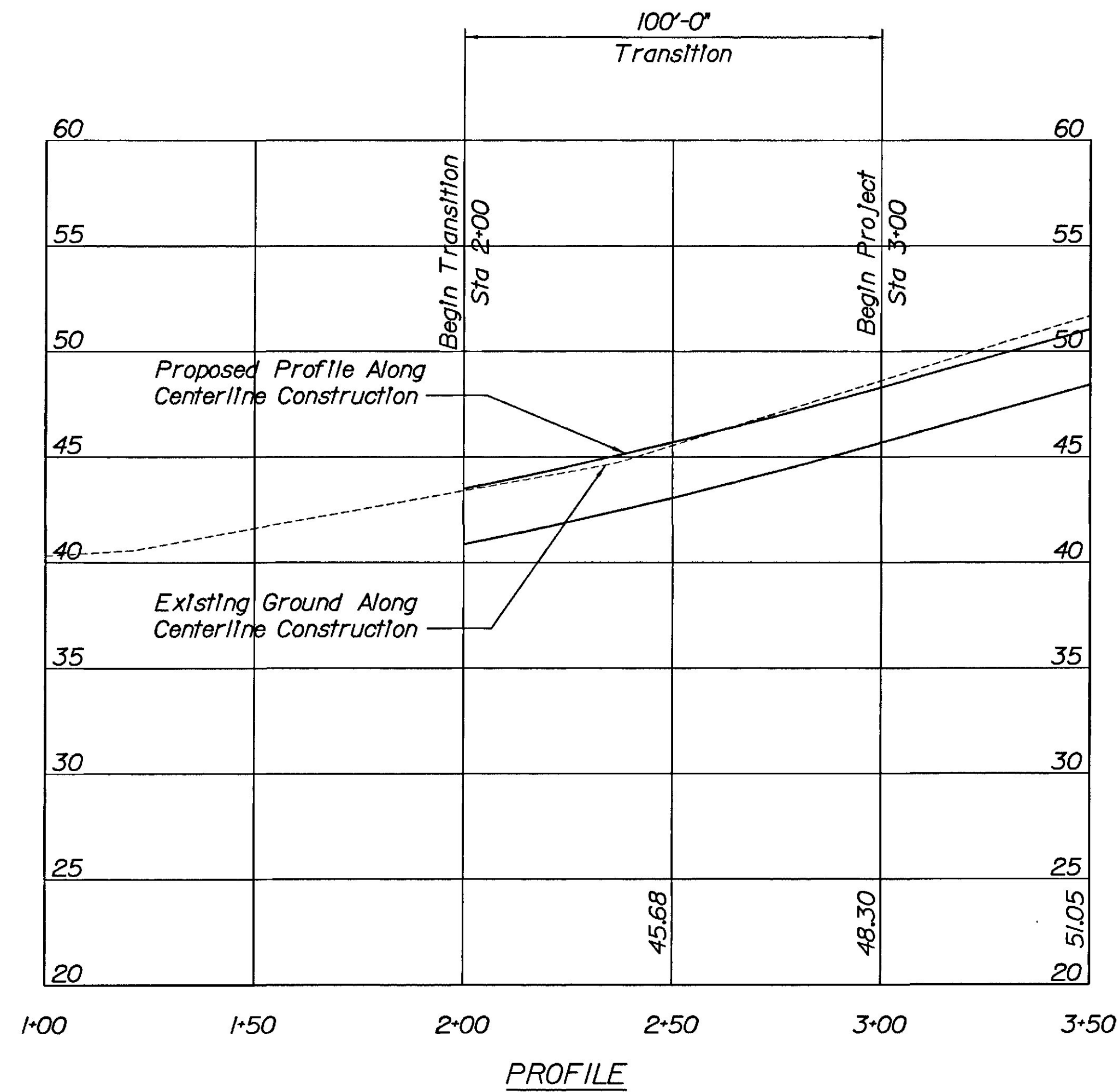
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CHECKED	JAB	DATE	11-98
REVISIONS			
FIELD CHANGES			

PLANS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PLEASANT AVENUE CROSSING
OVER
B&M RAILROAD
IN THE TOWN OF
SCARBOROUGH
CUMBERLAND COUNTY
PROFILE

AUGUSTA, MAINE



Station	Elevation	Station	Elevation	Station	Elevation	Station	Elevation	Station	Elevation	Station	Elevation	Station	Elevation
3+00	48.295	4+10	54.343	5+20	59.310	6+30	62.292	7+40	63.289	8+50	62.301	9+60	59.327
3+05	48.570	4+15	54.612	5+25	59.489	6+35	62.381	7+45	63.287	8+55	62.209	9+65	59.145
3+10	48.845	4+20	54.877	5+30	59.663	6+40	62.465	7+50	63.281	8+60	62.112	9+70	58.959
3+15	49.120	4+25	55.137	5+35	59.834	6+45	62.545	7+55	63.271	8+65	62.012	9+75	58.768
3+20	49.395	4+30	55.394	5+40	60.000	6+50	62.621	7+60	63.257	8+70	61.908	9+80	58.573
3+25	49.670	4+35	55.646	5+45	60.162	6+55	62.693	7+65	63.239	8+75	61.799	9+85	58.375
3+30	49.945	4+40	55.895	5+50	60.320	6+60	62.761	7+70	63.216	8+80	61.687	9+90	58.172
3+35	50.220	4+45	56.139	5+55	60.474	6+65	62.825	7+75	63.190	8+85	61.570	9+95	57.965
3+40	50.495	4+50	56.379	5+60	60.624	6+70	62.884	7+80	63.159	8+90	61.449	10+00	57.754
3+45	50.770	4+55	56.615	5+65	60.770	6+75	62.940	7+85	63.125	8+95	61.324	10+05	57.539
3+50	51.045	4+60	56.847	5+70	60.912	6+80	62.991	7+90	63.086	9+00	61.195	10+10	57.320
3+55	51.320	4+65	57.075	5+75	61.049	6+85	63.039	7+95	63.043	9+05	61.062	10+15	57.096
3+60	51.595	4+70	57.298	5+80	61.183	6+90	63.082	8+00	62.996	9+10	60.925	10+20	56.869
3+65	51.870	4+75	57.518	5+85	61.312	6+95	63.121	8+05	62.945	9+15	60.784	10+25	56.637
3+70	52.145	4+80	57.734	5+90	61.437	7+00	63.156	8+10	62.890	9+20	60.638	10+30	56.402
3+75	52.420	4+85	57.945	5+95	61.559	7+05	63.187	8+15	62.831	9+25	60.489	10+35	56.162
3+80	52.695	4+90	58.152	6+00	61.676	7+10	63.214	8+20	62.767	9+30	60.335	10+40	55.918
3+85	52.970	4+95	58.356	6+05	61.789	7+15	63.237	8+25	62.700	9+35	60.177	10+45	55.670
3+90	53.245	5+00	58.555	6+10	61.898	7+20	63.255	8+30	62.628	9+40	60.016	10+50	55.420
3+95	53.520	5+05	58.750	6+15	62.002	7+25	63.270	8+35	62.552	9+45	59.850	10+55	55.170
4+00	53.795	5+10	58.941	6+20	62.103	7+30	63.280	8+40	62.473	9+50	59.680	10+60	54.920
4+05	54.070	5+15	59.127	6+25	62.200	7+35	63.287	8+45	62.389	9+55	59.506	10+65	54.670

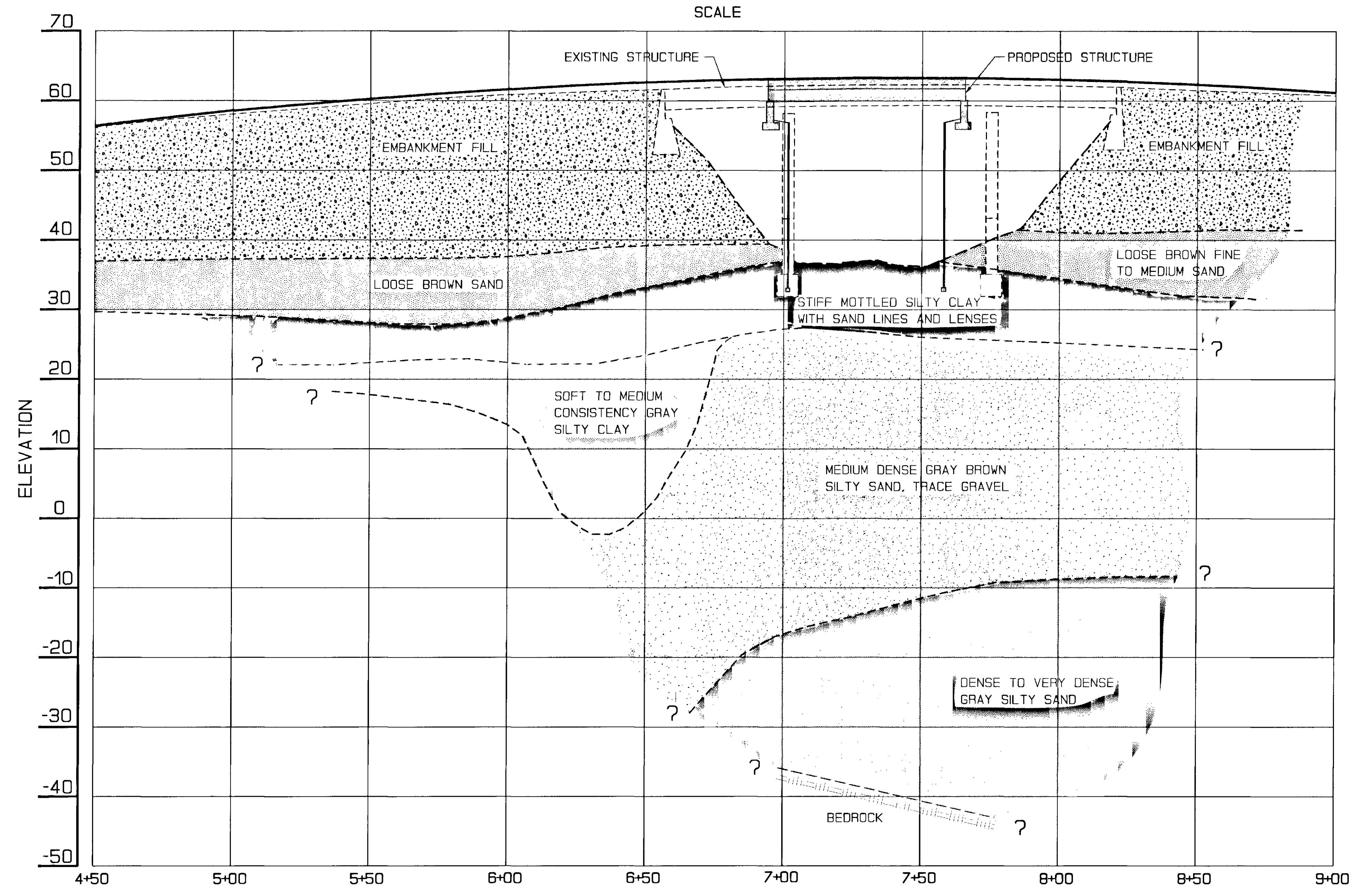
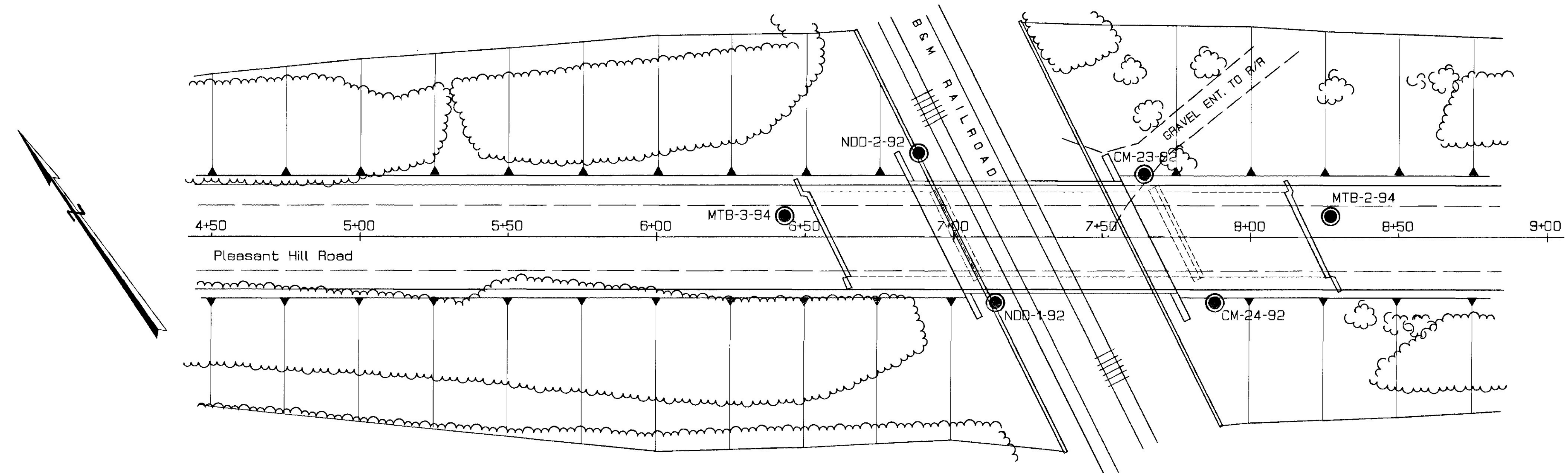
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REVISIONS	JAB		
FIELD CHANGES			

PLANS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PLEASANT AVENUE CROSSING
OVER
B&M RAILROAD
IN THE TOWN OF
SCARBOROUGH
CUMBERLAND COUNTY
PROFILE
AUGUSTA, MAINE

PIN 004783.00



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

PLANS

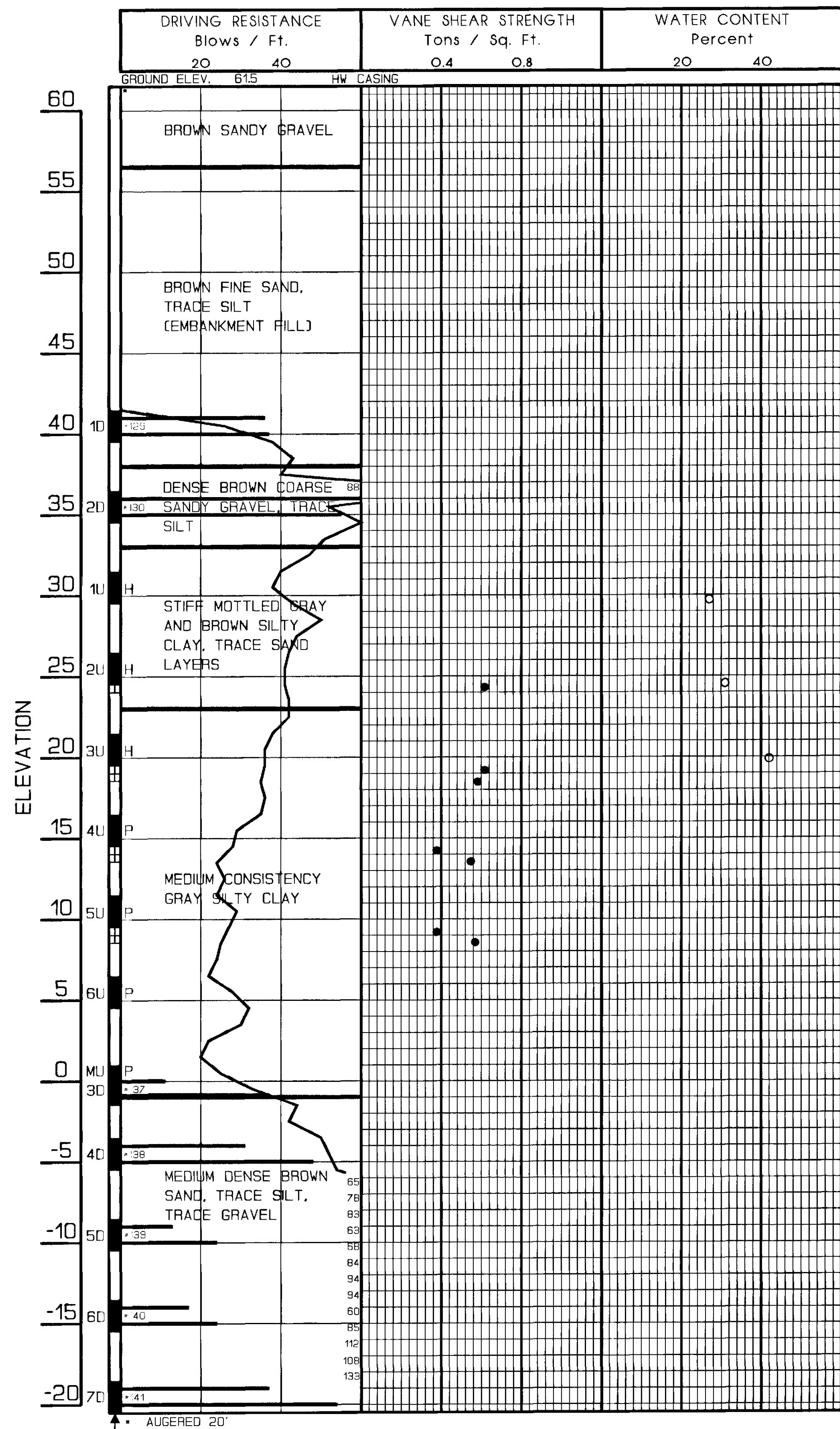
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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

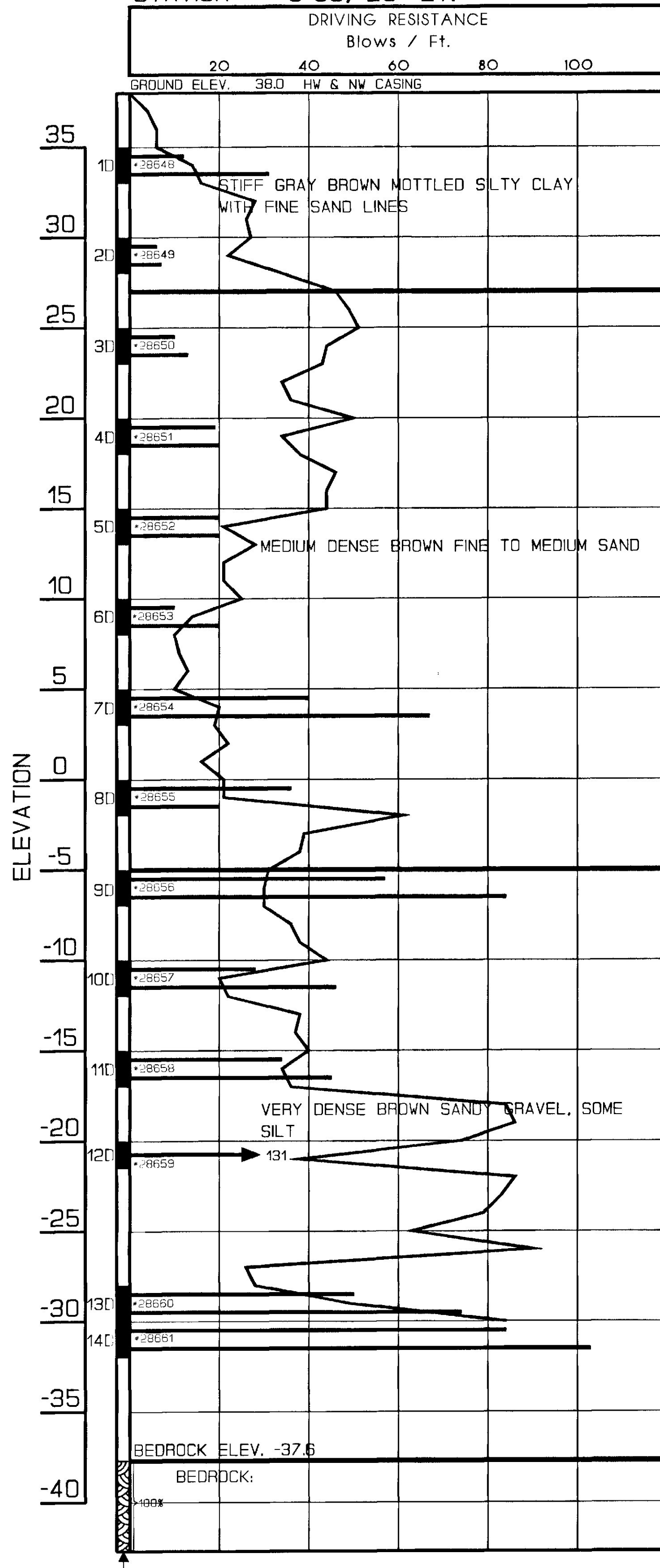
PLEASANT AVENUE CROSSING
over
B & M RAILROAD
in the city of
SCARBOROUGH
CUMBERLAND COUNTY
FOUNDATION SURVEY

SHEET OF AUGUSTA, MAINE

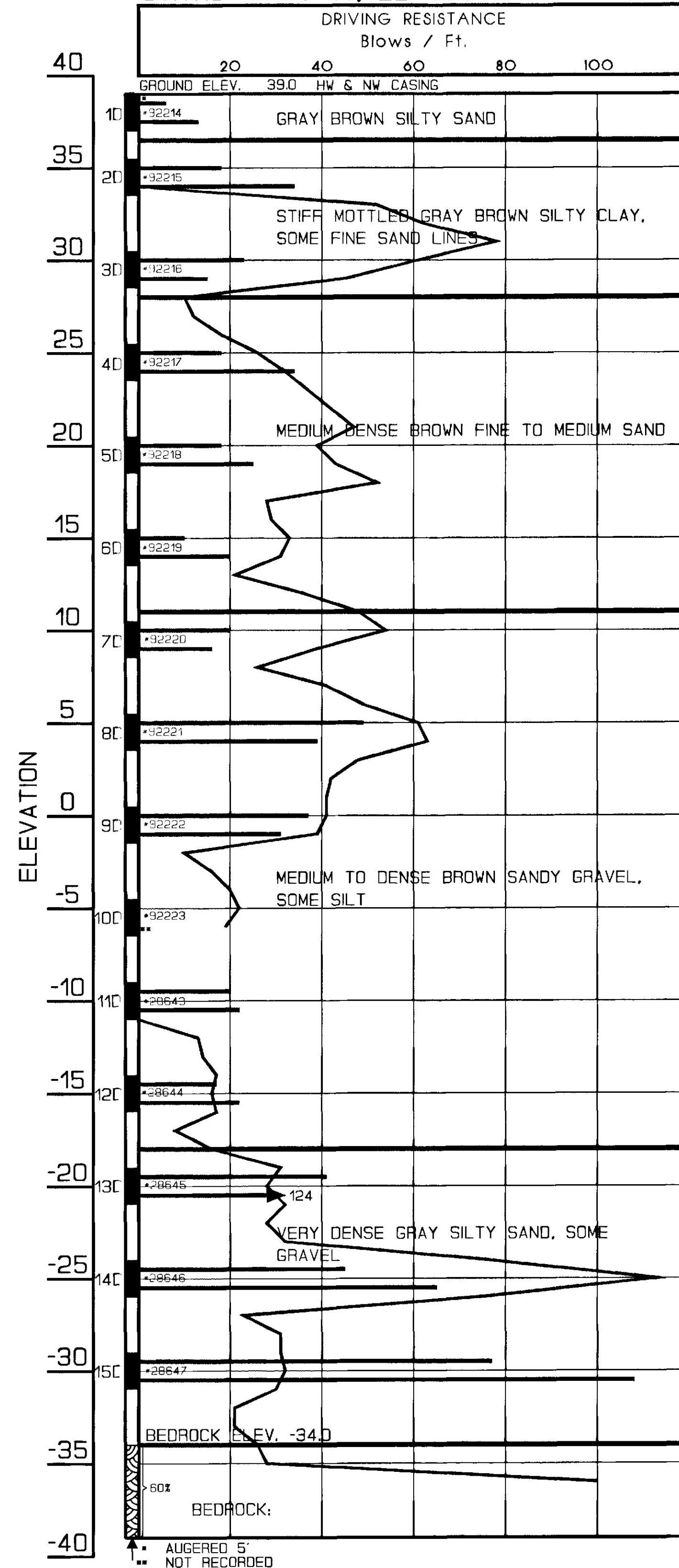
BORING MTB-3-94 STATION 6+43.7' LT.



BORING STATION NDD-2-92 6+88.28' LT.



BORING STATION NDD-1-92 7+14.22' RT.



BORING NOTES

- All samples and vanes are made ahead of casing
- Water Elevation
- Number of blows required to drive extra heavy casing one foot with 400 ft. lbs. of energy per blow
- Location of sample or sample attempt
- Number and type of dry sample
- ID Split spoon sampler
- IC 2" O.D. 16 ga. seamless tubing
- IU 3 1/2" O.D. 16 ga. seamless tubing
- IW Wash sample and number
- MD Unsuccessful sample attempt and type of sampler
- Number of blows required to drive spoon or tubing one foot with 350 ft. lbs. of energy per blow
- H Sampling spoon or seamless tubing driven by static weight of drill rods and hammer
- P Piston sampler
- Field vane test
- Bottom of boring (may not be bottom of soil strata)
- Refusal of drill rods or casing (may not be ledge)
- Locations cored by diamond bit and percent recovery of rock

SHEAR NOTES

- Field vane shear strengths
- Laboratory vane shear strengths
- Shear strengths in excess of capacity of equipment
- One half unconfined compressive strengths

WATER CONTENT NOTES

- Natural water contents, given as percent dry weight
- Plastic and liquid limits
- Ignition losses are given as percent of dry weight

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

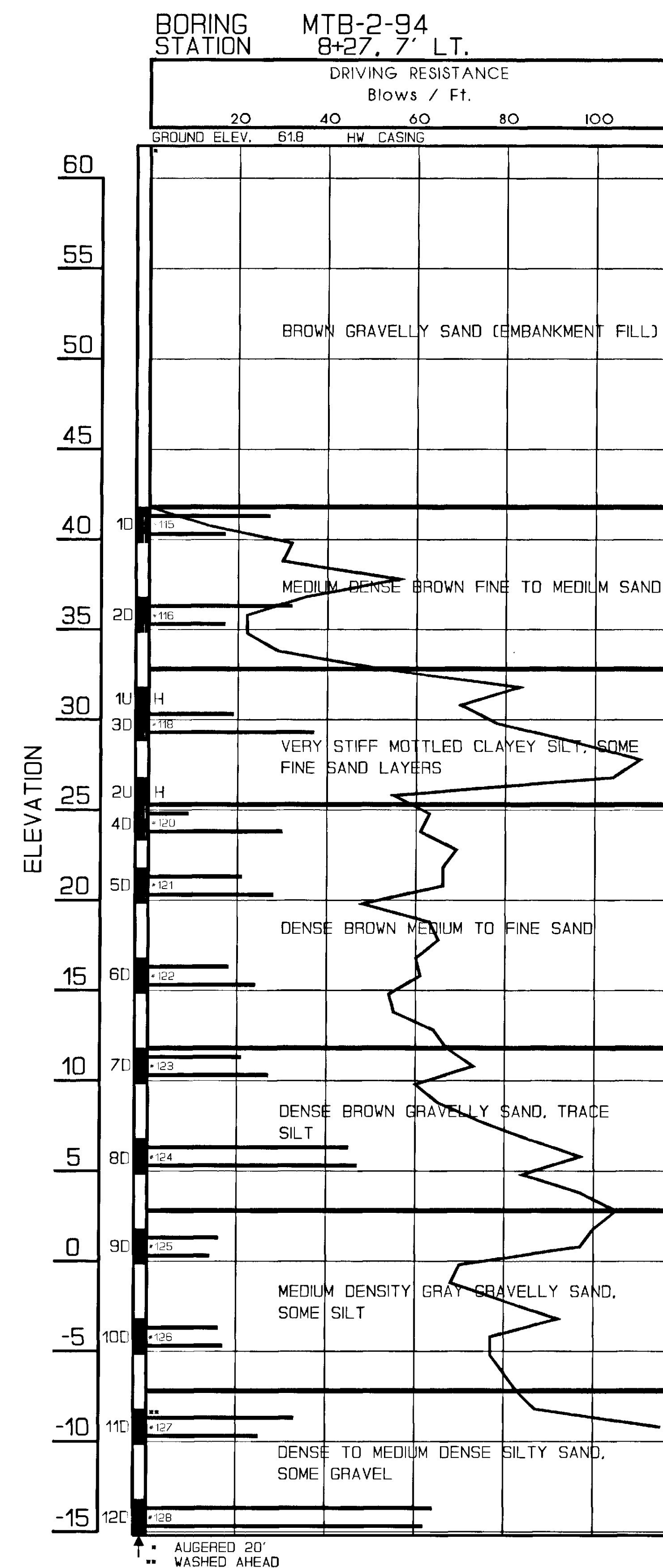
PLEASANT AVENUE CROSSING
over
B & M RAILROAD
in the city of
SCARBOROUGH
CUMBERLAND COUNTY
BORING DETAILS

SHEET OF AUGUSTA, MAINE

PROJECT DESIGN ENGINEER
DESIGN-DETAILED
CHECKED
REVISIONS
FIELD CHANGES

PLANS

05NOV95-01:00:30



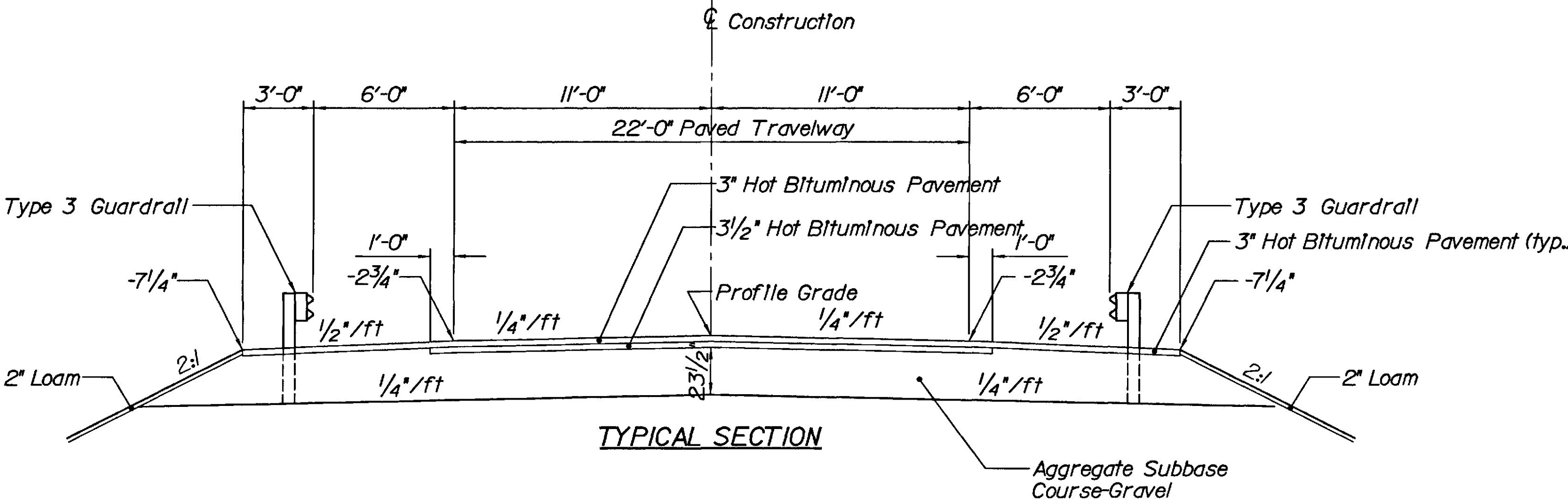
	All samples and vanes are made ahead of casing Water Elevation
	Number of blows required to drive extra heavy casing one foot with 400 ft. lbs. of energy per blow
	Location of sample or sample attempt
	Number and type of dry sample
1D	Split spoon sampler
1C	2" O.D. 16 ga. seamless tubing
1U	3 1/2" O.D. 16 ga. seamless tubing
1W	Wash sample and number
MD	Unsuccessful sample attempt and type of sampler
	Number of blows required to drive spoon or tubing one foot with 350 ft. lbs. of energy per blow
H	Sampling spoon or seamless tubing driven by static weight of drill rods and hammer
P	Piston sampler
	Field vane test
	Bottom of boring (may not be bottom of soil strata)
	Refusal of drill rods or casing (may not be ledge)
	Locations cored by diamond bit and percent recovery of rock

- Field vane shear strengths
- x Laboratory vane shear strengths
- Shear strengths in excess of capacity of equipment
- One half unconfined compressive strengths

- Natural water contents, given as percent dry weight
- ⊗-× Plastic and liquid limits

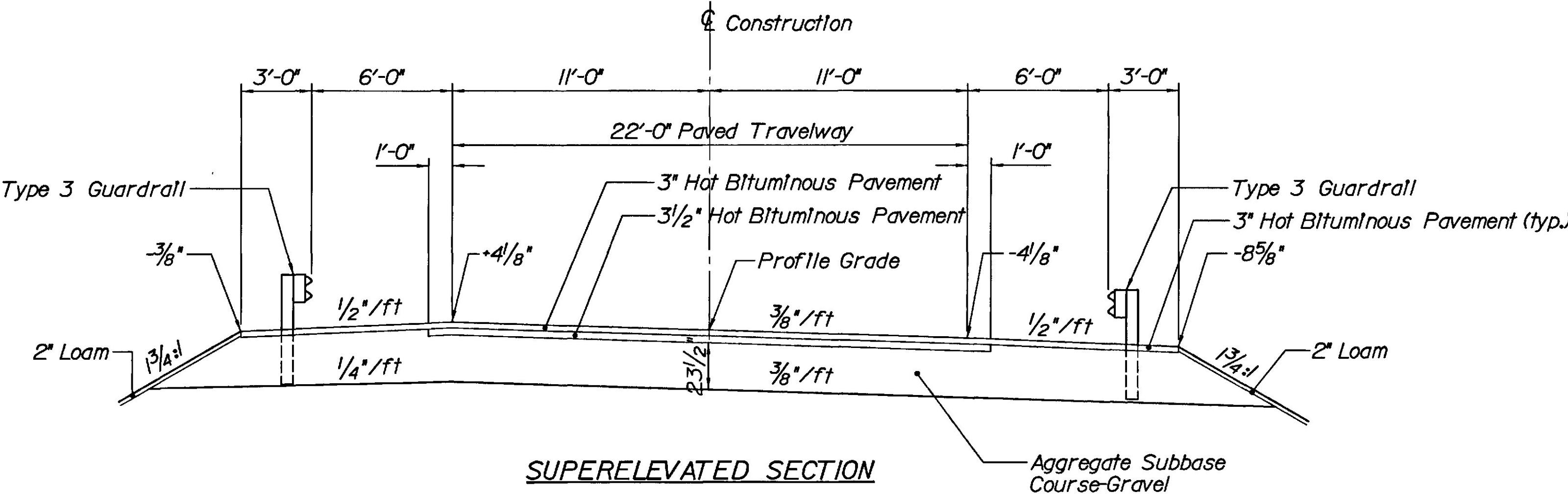
Ignition losses are given as percent of dry weight

05NOV95-01.00.30



NOTES:

1. The pavement, base and subbase depths as shown on the plans are intended to be nominal.
2. When superelevation exceeds the slope of the low side shoulder, the low side shoulder shall have the same slope as the travelway.
3. Crowns for both normal and superelevation sections for all courses of subbase and pavement shall be straight.



Superelevation Table		
Station	Left ETW	Right ETW
7+75	$-2\frac{3}{4}"$	$-2\frac{3}{4}"$
8+50	0"	$-2\frac{3}{4}"$
9+00	$+2\frac{3}{4}"$	$-2\frac{3}{4}"$
9+25	$+4\frac{1}{8}"$	$-4\frac{1}{8}"$
11+50	$+4\frac{1}{8}"$	$-4\frac{1}{8}"$

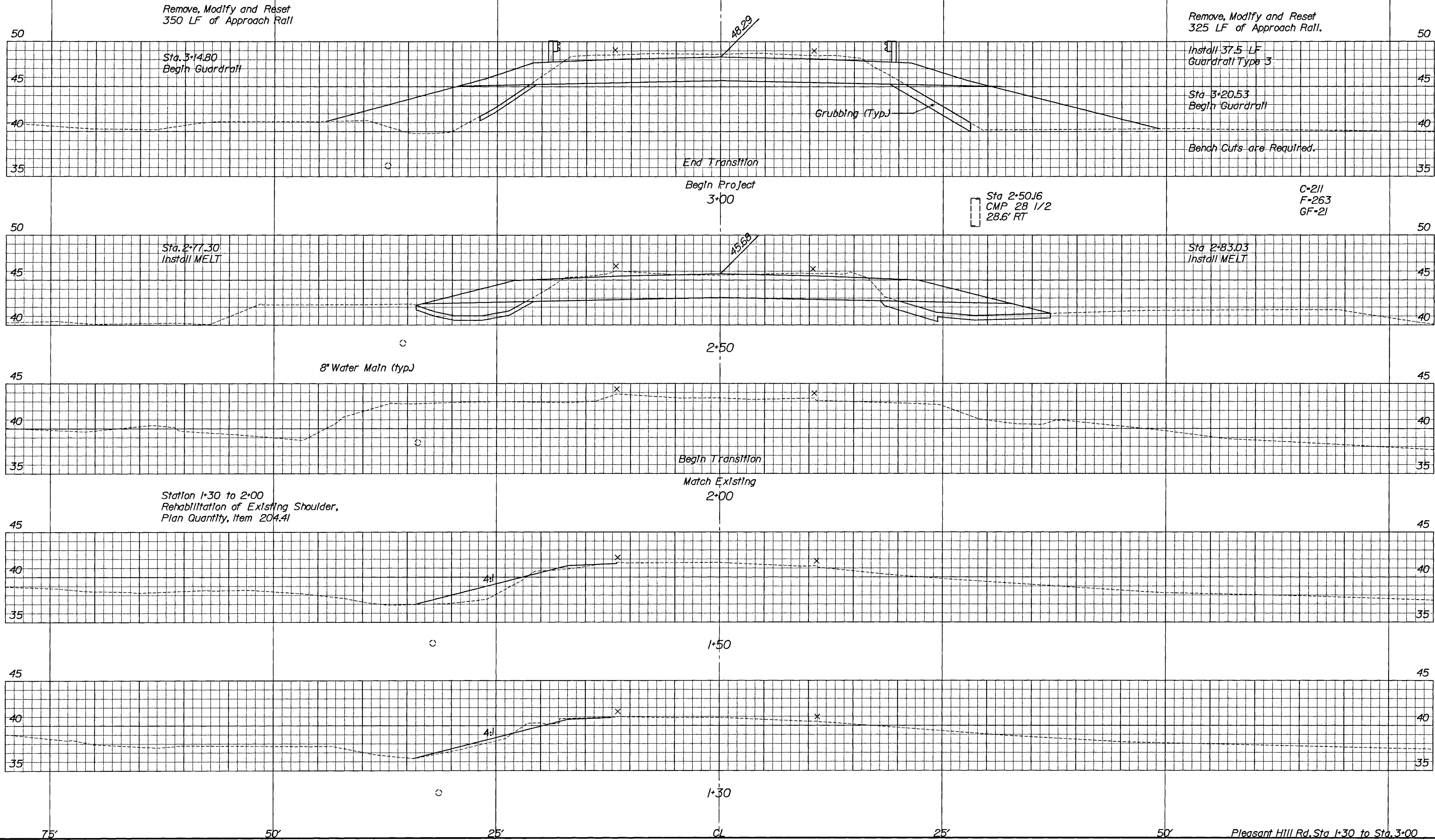
PLANS	PROJECT DESIGN ENGINEER		EBC	BY		DATE
	DESIGN-DETAILED		EBC		JCC	11-96
	CHECKED		JAB			
	REVISIONS					11-96
	FIELD CHANGES					

PLANS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PLEASANT AVENUE
CROSSING
OVER
BOSTON & MAINE RAILROAD
IN THE TOWN OF
SCARBOROUGH
CUMBERLAND COUNTY
TYPICAL SECTIONS

AUGUSTA, MAINE

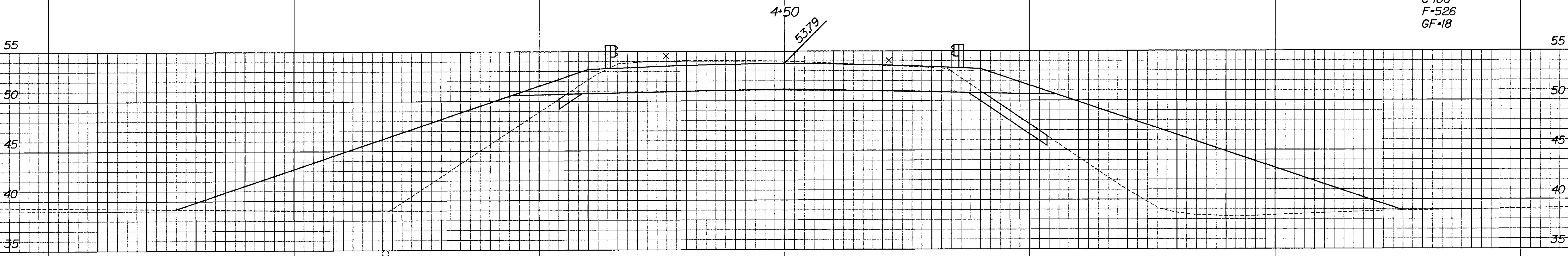
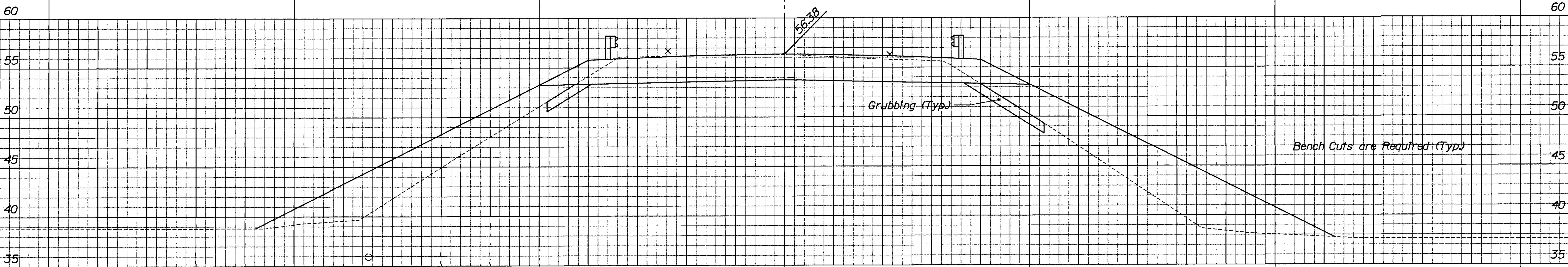


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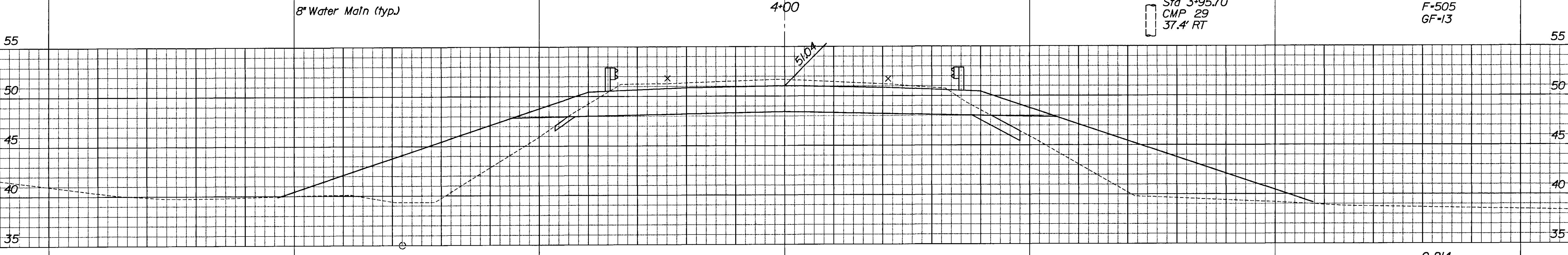
PLANS

PIN 4763.00
BRIDGE #3911

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	BR-0527(1)X	13	47

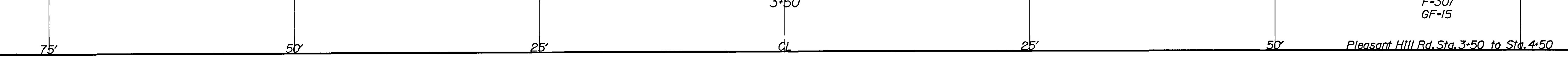


C=186
F=526
GF=18



C=208
F=505
GF=13

Sta 3+95.70
CMP 29
37.4' RT



C=214
F=307
GF=15

Pleasant Hill Rd. Sta. 3+50 to Sta. 4+50

PROJECT DESIGN ENGINEER	ERC	DATE	11-96
DESIGN-DETAILED	JCC	CHECKED	JAB
REVISIONS		FIELD CHANGES	

PLANS

PROJECT DESIGN ENGINEER	EBC	DATE	11-96
DESIGN-DETAILED	JCC	BY	JCC
CHECKED	JAB	EBC	
REVISIONS			
FIELD CHANGES			

PLANS

PIN 4763.00
BRIDGE #3911

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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