FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	F027-2(7)	61	1	127

INDEX OF SHEETS

SHEET NO. 1 TITLE PAGE
2-4 TYPICAL SECTION OF IMPROVEMENT
5-8 SUMMARY
9-26 BRIDGE PLANS
27-43 PLAN SHEETS
44-120 CROSS SECTIONS
121-127 STANDARDS
NO 1 REVISED JUNE 12, 1951
" 2 DEC. 22, 1954
" 3 JULY 15, 1959
" 4 JUNE 24, 1955
" 5 OCT. 28, 1959
" 6 JUNE 15, 1959
" 9 DEC. 17, 1957

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

PLANS OF PROPOSED
FEDERAL AID PRIMARY PROJECT
NO. F027-2(7) (PART A & B)

N.H. PROJECT NO. P-3897

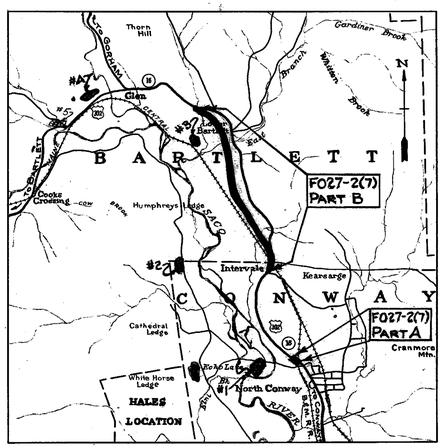
WHITE MOUNTAIN HIGHWAY

SCALES
PLAN 1" = 50'-0"
PROFILE VERT. 1"=10'-0" HOR. 1" = 50'-0"
CROSS SECTION VERT. 1" = 5'-0" HOR. 1" = 5'-0"

THIS PROJECT TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS DATED JULY 1, 1954, SUPPLEMENT TO STANDARD SPECIFICATIONS DATED AUGUST 1, 1958 AND STANDARD SHEETS LISTED IN THE INDEX ON FILE WITH THE BUREAU OF PUBLIC ROADS AND SPECIAL PROVISIONS ATTACHED TO PROPOSAL.

DESIGN DATA		PART A	PART B
AVERAGE DAILY TRAFFIC	1960	3700	2600
AVERAGE DAILY TRAFFIC	1980	6200	4300
TRAFFIC CLASSIFICATION		M	M
DESIGN SPEED		30 M.P.H.	60 M.P.H.
MAXIMUM CURVATURE		3 DEGREES	6 DEG.
MAXIMUM GRADIENT		0.40 %	2.889
NON-PASSING SIGHT DISTANCE K FACTOR – CREST — SAG —			227 682
LENGTH OF PROJECT		0.126 MILES	2.582 MILES

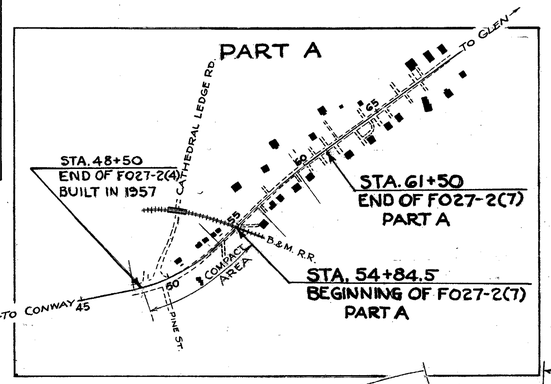
TOTAL LENGTH OF PROJECT = 2.71 MI.

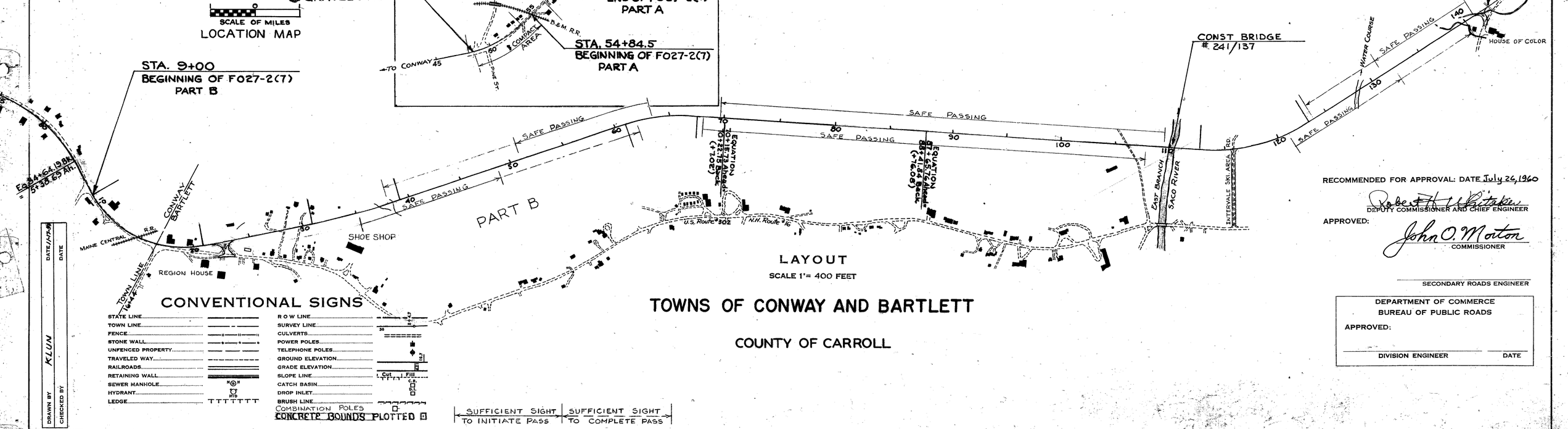


GRAVEL PITS

SCALE OF MILES

LOCATION MAP





RECOMMENDED FOR APPROVAL: DATE July 24, 1960

Robert H. Whitaker
DEPUTY COMMISSIONER AND CHIEF ENGINEER

APPROVED:

John O. Morton
COMMISSIONER

SECONDARY ROADS ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED:

DIVISION ENGINEER DATE

CONVENTIONAL SIGNS

STATE LINE
TOWN LINE
FENCE
STONE WALL
UNFENCED PROPERTY
TRAVELED WAY
RAILROADS
RETAINING WALL
SEWER MANHOLE
HYDRANT
LEDGE
R O W LINE
SURVEY LINE
CULVERTS
POWER POLES
TELEPHONE POLES
GROUND ELEVATION
GRADE ELEVATION
SLOPE LINE
CATCH BASIN
DROP INLET
BRUSH LINE
COMBINATION POLES
CONCRETE BOUNDS PLOTTED

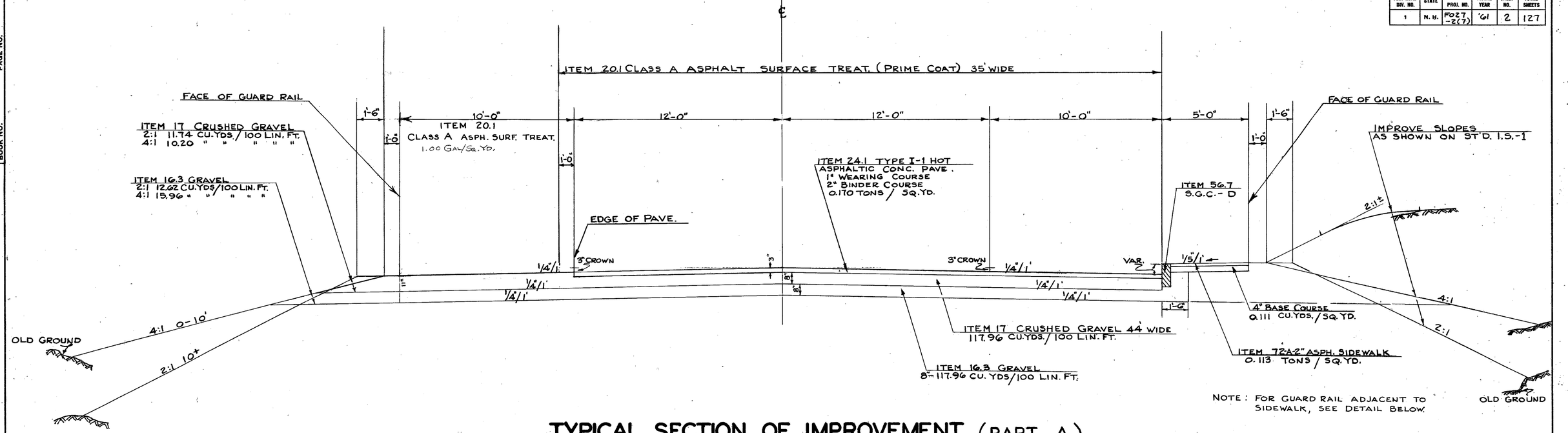
SUFFICIENT SIGHT TO INITIATE PASS | SUFFICIENT SIGHT TO COMPLETE PASS

DRAWN BY KLUN DATE
CHECKED BY DATE

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	1	127

300-12-58 MODERN BLUE PRINT CO. NO. 70 REVILO 23536

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	2	127



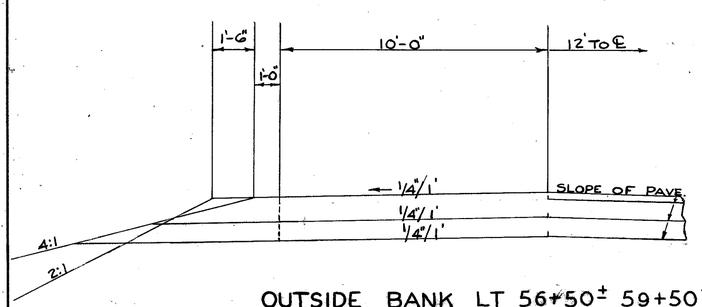
NOTE: FOR GUARD RAIL ADJACENT TO SIDEWALK, SEE DETAIL BELOW.

TYPICAL SECTION OF IMPROVEMENT (PART A)

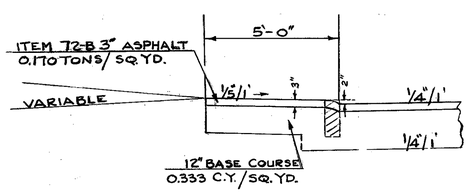
TYPE I-1 HOT ASPHALTIC CONCRETE PAVEMENT

FOR LOCATION OF ALL DETAILS SEE SHEETS 5, 6, 7, 8

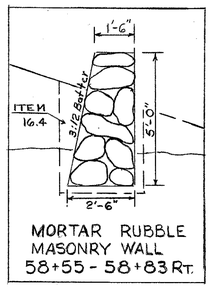
SCALE — 3/8" = 1'-0"



OUTSIDE BANK LT 56+50± 59+50±



URBAN DRIVE RAMP



MORTAR RUBBLE MASONRY WALL
58+55 - 58+83 RT.

GENERAL NOTES

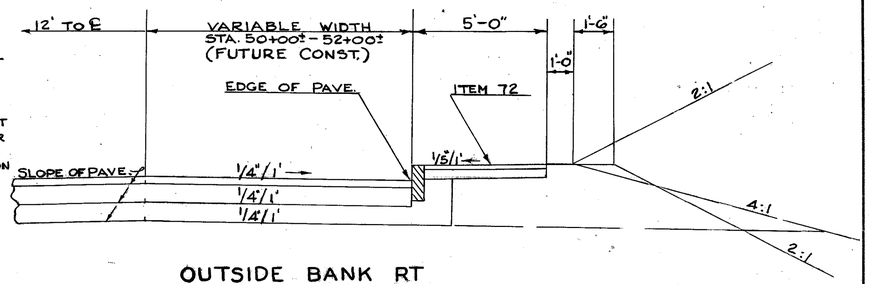
ADJUSTMENTS OF UTILITY COVERS, SHUTOFFS, OR SIMILAR STRUCTURES TO THE NEW PAVEMENT GRADE AND THE MOVING OF UTILITY POLES WILL BE DONE BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE, NOT A PART OF THIS CONTRACT. THE CONTRACTOR SHALL COOPERATE WITH THE OWNER IN EVERY WAY TO EXPEDITE SUCH ADJUSTMENTS.

TOPSOIL, ROOTS, AND STUMPS SHALL BE REMOVED AS ORDERED WHERE ENCOUNTERED 5 FEET OR LESS BELOW FINISHED GRADE.

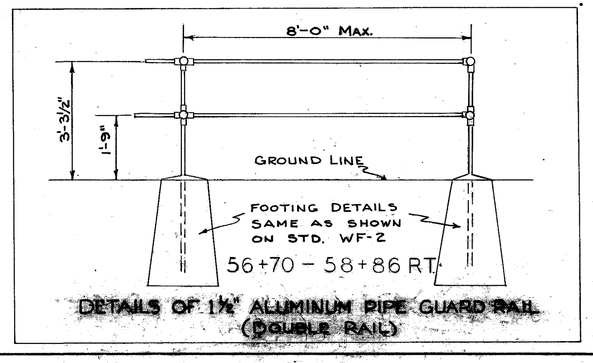
ITEM 20.1 CLASS A ASPHALT SURFACE TREATMENT, 35 FEET WIDE AS A PRIME COAT ON THE FOUNDATION COURSE, 1.25 GALLONS PER SQ.YD. (486.11 GALLONS PER 100 LIN.FT.) OR AS ORDERED, TO BE APPLIED IN 3 APPLICATIONS OF 0.50, 0.25, AND 0.50 GAL. PER SQ.YD. RESPECTIVELY. THE THIRD APPLICATION TO BE APPLIED AS ORDERED BY THE CONSTRUCTION ENGINEER.

ITEM 20.1 CLASS A ASPHALT SURFACE TREATMENT, 10 FEET WIDE AS A SHOULDER TREATMENT, 1.00 GALLON PER. SQ.YD. (111.11 GAL. PER 100 LIN. FT. - ONE SIDE) OR AS ORDERED, TO BE APPLIED AS DIRECTED BY THE CONSTRUCTION ENGINEER.

ALL SLOPES, EITHER IN EXCAVATION OR FILL AREAS, NOT OTHERWISE IMPROVED, AS ORDERED, BY THE USE OF LOAM, SOD, FERTILIZER AND SEED, SHALL BE MULCHED.



OUTSIDE BANK RT



DETAILS OF 1 1/2" ALUMINUM PIPE GUARD RAIL (DOUBLE RAIL)

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	2	127

NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.
" "	" "
" "	" "
" "	" "
" "	" "

REVISIONS AFTER PROPOSAL

DATE	STA. TO STA.	DESCRIPTION

PLAN BY	CONNOR	DATE 9-10-59
" CHECKED "		"
PROFILE TRACED BY		"
" CHECKED "		"
INKED BY	CONNOR	" 6-2-60
CHECKED BY		

1500-3-58 MODERN BLUE PRINT CO. 23230

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	F027-2(7)	'61	3	127

TYPICAL SECTION OF IMPROVEMENT

TYPE I-1 HOT ASPHALTIC CONCRETE PAVEMENT

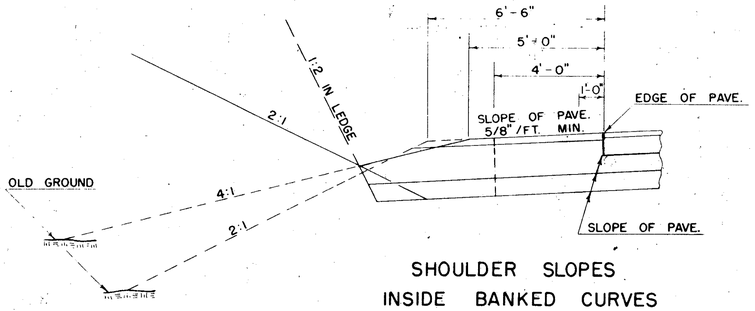
FOR LOCATION OF ALL DETAILS SEE SHEET 5,6,7,8,

SCALE — 3/8" = 1'-0"

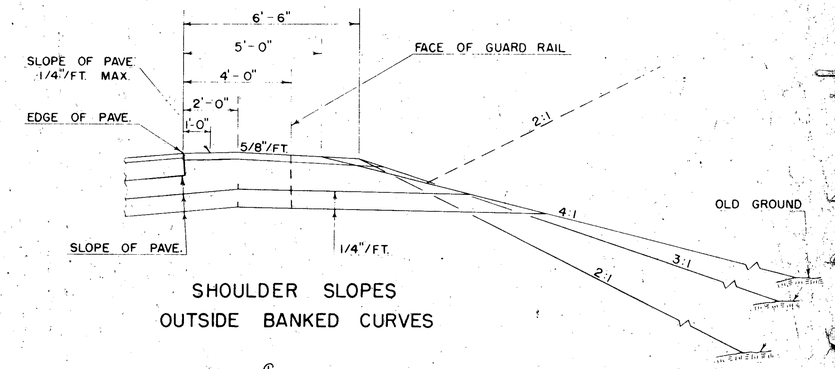
FOR **GENERAL NOTES** SEE SHEET NO'S 2,4

APPROACH STA. 80+20 – 9+00

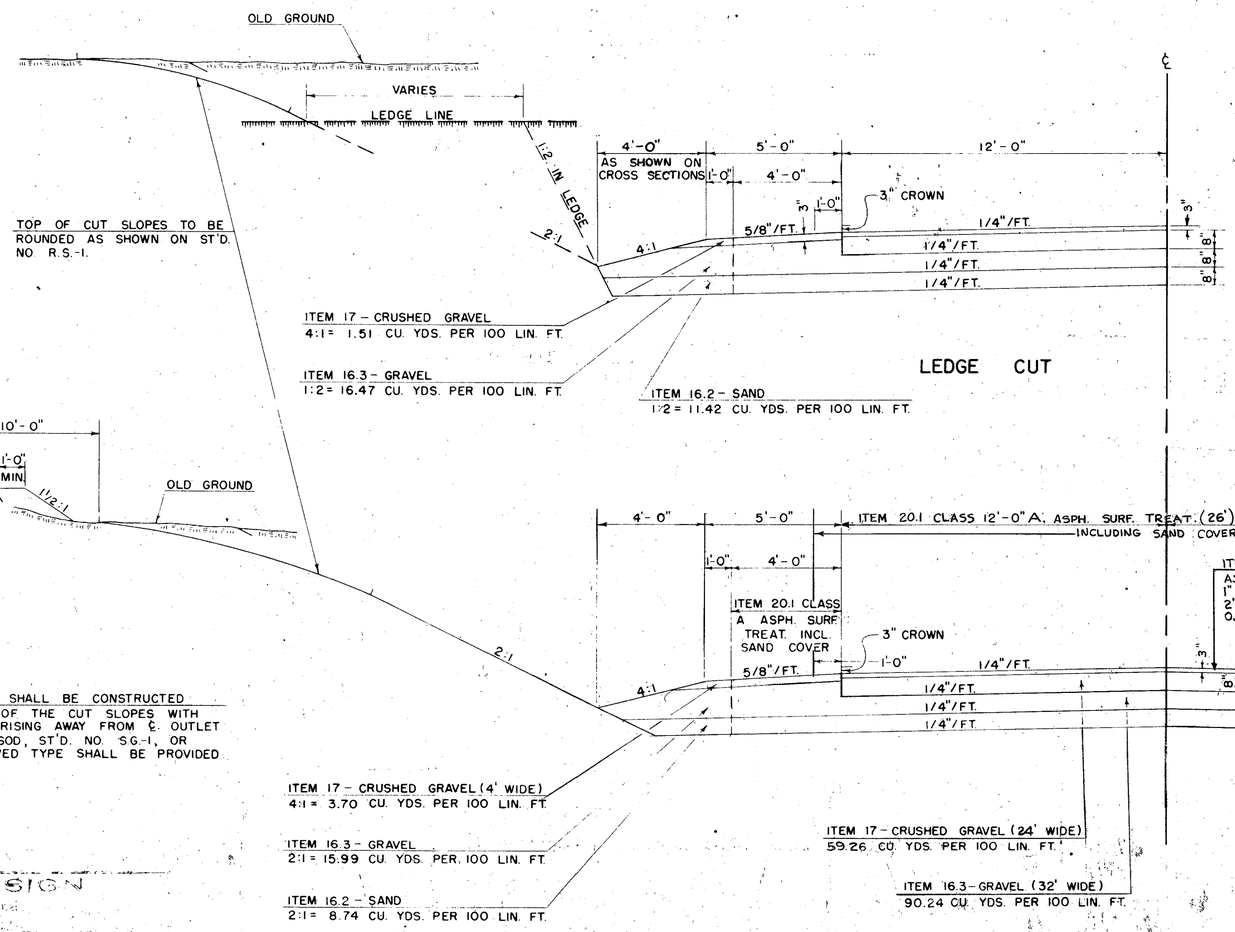
P-3897 PART B



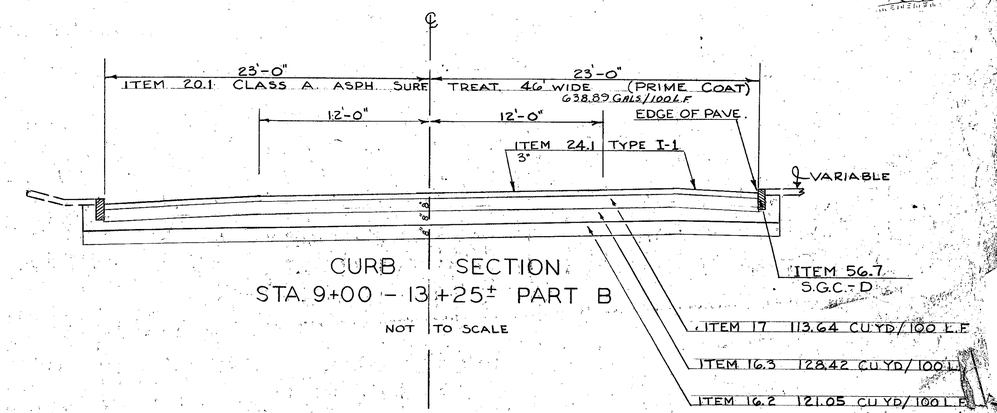
SHOULDER SLOPES
INSIDE BANKED CURVES



SHOULDER SLOPES
OUTSIDE BANKED CURVES



LEDGE CUT



CURB SECTION
STA. 9+00 – 13+25± PART B

NOT TO SCALE

DESIGN

Design Engineer

Chief

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	3	127

NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.	BOOK NO.	PAGE NO.
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"

REVISIONS AFTER PROPOSAL

DATE	STA.	TO STA.	DESCRIPTION

		DATE
PLAN DRAWN BY	S. LILLIS	10-14-59
" CHECKED "	"	"
PROFILE TRACED BY	"	"
" CHECKED "	"	"
INKED BY	S. LILLIS	" 10-14-59
CHECKED BY		

FED. ROAD DIV. NO.	STATE	F A P PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F 027 - 2(7)	'61	4	127

TYPICAL SECTION OF IMPROVEMENT NO. 6 PART B

TYPE I-1 HOT ASPHALTIC CONCRETE PAVEMENT

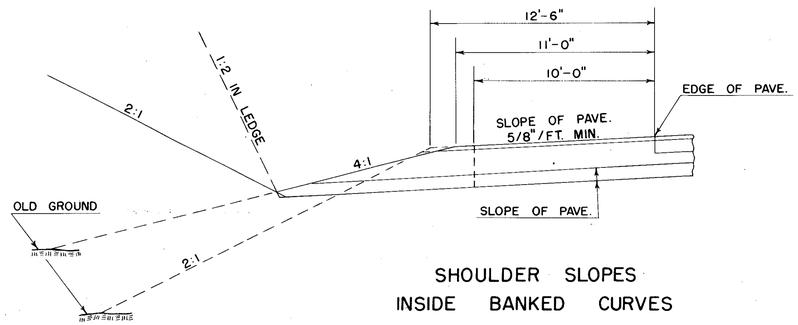
FOR LOCATION OF ALL DETAILS SEE SHEET 5,6,7,8

SCALE — 1/4" = 1'-0"

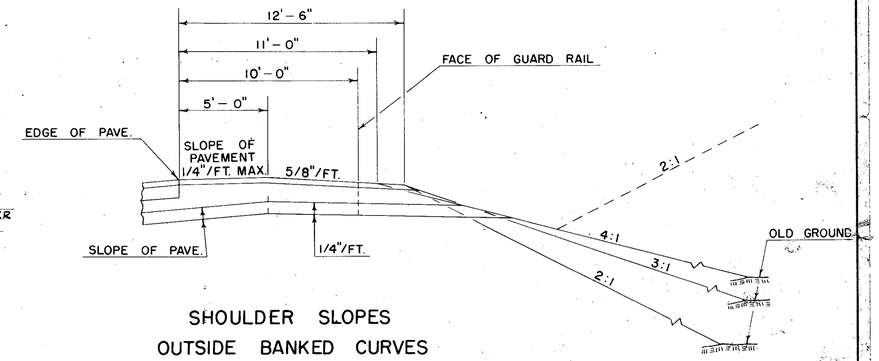
FOR ADDITIONAL GENERAL NOTES SEE SHT. NO. 2

ITEM 20.1 CLASS A ASPHALT SURFACE TREAT. 26' WIDE (EXCEPT AS OTHERWISE NOTED) ON THE FOUNDATION COURSE, 1.25 GAL. PER SQ. YD. (361.11 GALS. PER 100 LIN. FT.) OR AS ORDERED, TO BE APPLIED IN THREE APPLICATIONS OF 0.50, 0.25 AND 0.50 GAL. PER SQ. YD. RESPECTIVELY. THE THIRD APPLICATION TO BE APPLIED AS ORDERED BY THE CONSTRUCTION ENGINEER.

ITEM 20.1 CLASS A ASPHALT SURFACE TREAT. 4' TO 10' WIDE AS A SHOULDER TREATMENT, 1.00 GAL. PER SQ. YD. (44.44 GAL. PER 100 LIN. FT.-ONE SIDE FOR 4' WIDE.) (111.11 GAL. PER 100 LIN. FT.-ONE SIDE FOR 10' WIDE). TO BE APPLIED AS ORDERED BY THE CONSTRUCTION ENGINEER.

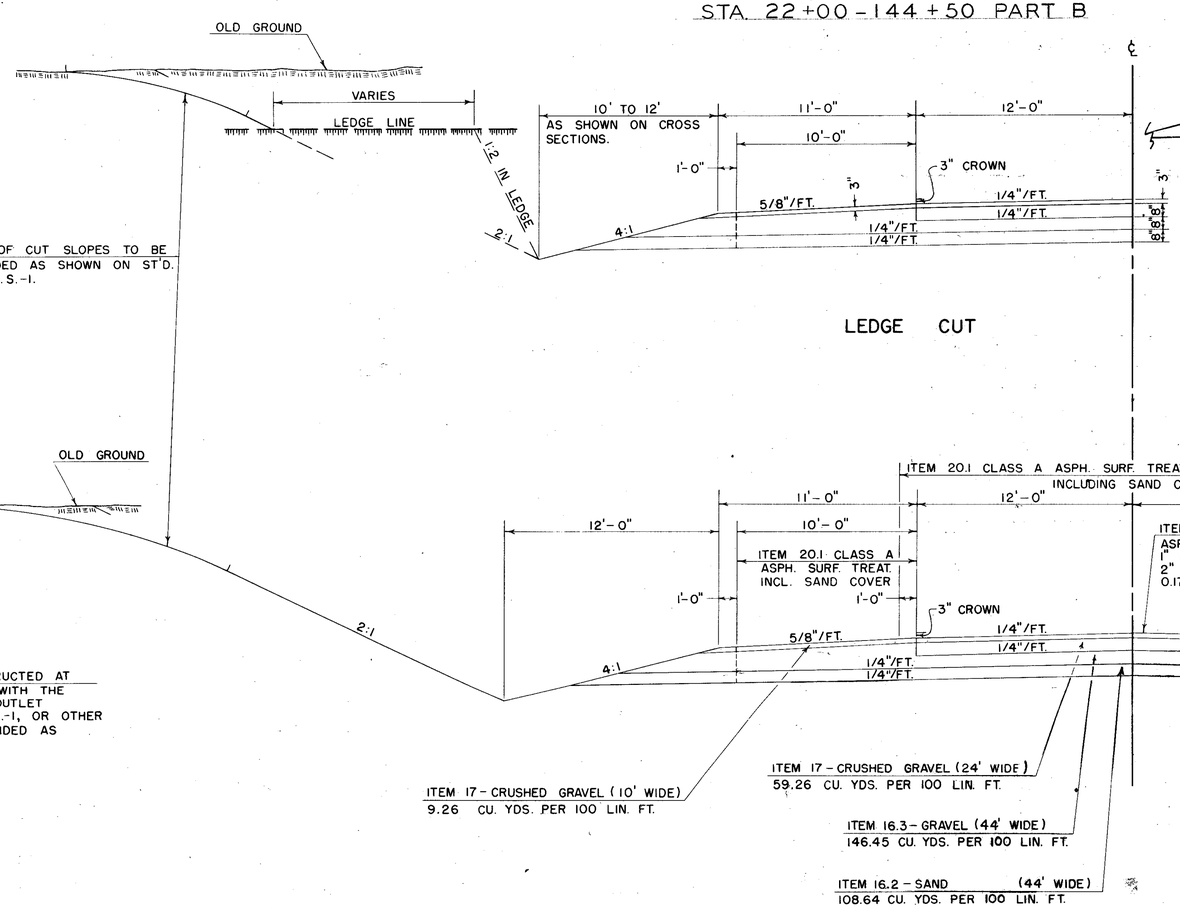


SHOULDER SLOPES
INSIDE BANKED CURVES

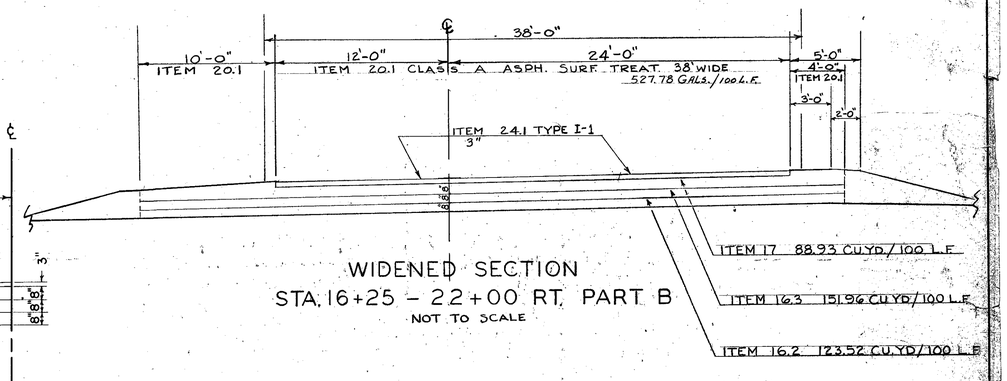


SHOULDER SLOPES
OUTSIDE BANKED CURVES

STA. 22+00 - 144+50 PART B



LEDGE CUT



WIDENED SECTION
STA. 16+25 - 22+00 RT. PART B
NOT TO SCALE

NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.	BOOK NO.	PAGE NO.
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"

REVISIONS AFTER PROPOSAL

DATE	STA. TO STA.	DESCRIPTION

PLAN DRAWN BY	S. LILLIS	DATE 10-22-59
" CHECKED "		"
PROFILE TRACED BY		"
" CHECKED "		"
INKED BY	S. LILLIS	" 10-22-59
CHECKED BY		

Design Engineer

Chief

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	4	127

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	F027-2(7)	61	5	127

SUMMARY OF QUANTITIES (ESTIMATED)

THIS INFORMATION IS FOR BIDDING PURPOSES ONLY
FOR ADDITIONAL QUANTITIES SEE SHEET NO.'s 6, 7, 8

* NOT AN ITEM TOTAL

DRAINAGE SUMMARY

ITEM NO.	6.1	6.2	6.3	16.4	ST'D NO.	38.4	40.1A	40.1B	40.1C	40.1D	40.1E	40.1F	40.1G	40.1H	40.1I	40.1J	40.1K	35	40.7	40.10	40.15	54.1	49.5	537	64.1	64.4	65	66	71	REMARKS
ITEM	EARTH TR. EXC. R CL-A 0-10	EARTH TR. EXC. R CL-B 6-12	LEDGE TR. EXC. R 0-10	GRAVEL FOR SPECIAL PURPOSES		MORTAR RUBBLE MASONRY	REINFORCED CONCRETE PIPE (MINIMUM 6' LENGTHS) 2000 D INCLUDING SPECIFIED EXCAVATION 12"	15"	18"	24"	30"	36"	2000 D INCLUDING SPECIFIED EXCAV. 24"	48"	60"	3000D 42"	4000D 72"	REINFORCING STEEL	SERVICE WATER PIPE (COPPER) INCLUDING SPECIFIED 3/4"	BIT. COAT CORR. MET PIPE (10 GA) 54"	ASBESTOS CEMENT SEW. PIPE 6"	STRUCT PLATE PIPE ARCH	RIP RAP E	B.C.P.C. M.P. UND INCL. SPEC. EXC. AND BACKFILL 6"	CATCH BASINS TYPE B	DROP INLETS TYPE B	HALF CIRCLE SLUICE 24"	GRANITE CURB INLETS TYPE B	PIPE SLEEVE INCLUD. SPEC. EXCAV. 4"	
UNIT	CU. YD.	CU. YD.	CU. YD.	CU. YD.		CU. YD.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LB.	LIN. FT.	LIN. FT.	LIN. FT.	UNIT	CU. YD.	LIN. FT.	EACH ACT.	EACH EST.	EACH ACT.	EACH EST.	LIN. FT.	EACH	LIN. FT.	
LOCATION																														
PART A																														
55+00 - 60+50± Rt.	275																													RELOCATION WATER MAIN
55+50									64																1	1	36	1		
55+95 L	1																													WRECK CMP
56+50 LT - 57+42 R	15	92			PC-8	10.99										164														
56+85 L			1																											WRECK CB
57+10																														ABAND. O.S.B. PLUG INLET
57+07 - 58+37 L																														
57+15 R			1																											ABAND. 130x12" B.C.C.M.P.
57+26 - 57+73 L							40																							WRECK CB
57+50 R								24																	1	1	24	1		
58+25 - 61+50 R	1				UH-2	0.17																		330						
58+50 L																														ABANDON 12" PIPE
58+00 - 61+50 L	1				UL-4	0.30																		350						
58+55 - 58+83 R	8			10		10.40																								RETAINING WALL
	167																													
PART A SUB TOTALS	301	92	2	10		21.86	40	24	64							164								680	2		60	2		
ESTIMATED	19	8	1	5		.14	4	4	8							8								20	1		10	1		
PART A TOTALS	320	100	3	15		22	44	28	72							172								700	3		70	3		
PART B																														
81+35 L - 84+00 R	337																													RELOCATION WATER MAIN
81+80																													48	
82+75	9		6		PC-8	10.20						94																		WRECK HDRS.
8+00 - 20+20 R	813																													REMOVE 30" CMP - CULV. DITCH
11+43 R - 11+83 L								52																	1	1	1	1	2	RELOCATION WATER MAIN
11+85 - 13+90 L								208																						
14+00									72																		1	1		
14+69	3																	26		38			2.55							RETAIN O.S.B. PAVE OUTLET
16+24 - 17+00 R									80																					UNDER APPROACH
20+40									84																1	1		1		
28+20																			280										95	
32+75																													70†	
28+50 L							32																							UNDER DRIVE
29+60																			148										105	
29+80								68																	1	1	1	1	2	
29+82 - 32+98 L								316																						
32+50 L							38																							UNDER DRIVE
33+00								68																	1	1	1	1	2	
33+02 - 34+70 L	2				UL-4	0.66			178																					
37+75	25			130	PC-8	25.31											151													CONST. OUTLET DITCH
45+25									116																					
48+00																													80†	
65+60									108																					
72+90										96																				
90+25	12								96																					CONST INLET DITCH
96+50	6				PC-4	3.31			84																					" " "
100+40	8								72																					" OUTLET DITCH
107+68	10				PC-8	17.19									104															CONST. INLET DITCH
114+00 RT - 114+70 LT	16				PC-4	6.63					124																			" INLET DITCH
115+85 R @ END OF APPR ON RTE 16									8†																					EXTEND 8' x 18" RCP 2000D
128+50	6			50	PC-8	24.35									72															
134+70	2				PC-4	4.82							96																	
136+50	3			50	PC-8	17.19								80																
137+85 - 139+50 L	73																													CONST DITCH
139+50	17				PC-4	6.63					108																			CONST. INL. & OUTL. DITCHES
139+50 - 141+00 R	125																													CONST DITCH
142+22 - 144+77 L																					255									
142+40	300		50	95		24.0																1	25							STRUCT PLATE PIPEARCH
142+60 R			26																											REMOVE 4'x8' BOX
BRIDGE																		35,400												
SLOPE PROTECTION	15																										258			
PART B SUB TOTALS	1782		82	325		140.29	70	712	898	96	232	94	96	184	72		151	35,426	428	38	255	1	27.55		4	4	258	8	398	
ESTIMATED	98		18	60		.71	8	36	56	8	16	8	8	16	8		14	—	12	12	10	—	2.45		2	2	22	4	27	
PART B TOTALS	1880	—	100	385		141	78	748	954 (946)	104	248	102	104	200	80	—	165	35,426	440	50	265	1	30	—	6	6	280	12	425 (275)	
PART A TOTALS	320	100	3	15		22	44	28	72	—	—	—	—	—	—	172	—	—	—	—	—	—	—	700	3	—	70	3	—	
CONTRACT TOTAL	2200	100	103	400		163	122	776	1026	104	248	102	104	200	80	172	165	35,426	440	50	265	1	30	700	9	6	350	15	425	

† 8 FEET OF 18" RCP NON-PARTICIPATING
† 150 FEET OF 4" PIPE SLEEVE NON-PARTICIPATING

NOTE BOOKS — BOOK NO. / PAGE NO.

DESCRIPTION — AFTER PROPOSAL — STATION

REVISIONS — DATE — STATION

COMPILED BY CONNOR — DATE 6-23-60
CHECKED BY KNOWLES & CONNOR — DATE 7-12-60
INKED BY — DATE
CHECKED BY KNOWLES — DATE 7-21-60

PROJ. NO.	SHEET NO.	TOTAL SH'TS.
F027-2(7)	5	127

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	F027-2(7)	61	6	127

SUMMARY OF QUANTITIES (ESTIMATED)

THIS INFORMATION IS FOR BIDDING PURPOSES ONLY
FOR ADDITIONAL QUANTITIES SEE SHEET NO.'s 7, 8

* NOT AN ITEM TOTAL

THE AREAS LISTED BELOW ARE SHOWN ON THE PLAN SHEETS BY SHADING AND LETTER IDENTIFICATIONS. THESE ARE THE AREAS DESIGNATED FOR CLEARING AND GRUBBING.

PART-A 54+84.50 - 61+50 = 665.50 FT. = 0.126 MI.
PART-B 9+00 - 144+50 = 13,489.10 FT. (+83.10) = 2.555 MI.
BRIDGE 109+38 - 110+82 = 144 FT. = .027 MI.
TOTAL 2.708 MI.

CONWAY PORTION - 54+84.50 - 61+50 ; 9+00 - 16+44 = 1,409.50 FT. = 0.267 MI.
BARTLETT " 16+44 - 144+50 (+83.10) = 12,889.10 FT. = 2.441 MI.
TOTAL 14,298.60 FT. = 2.708 MI.

†CURB TOTALS

ITEM NO	56.5	56.7	56.8		
ITEM	STRAIGHT GRANITE CURB C	STRAIGHT GRANITE CURB D	CURVED GRANITE CURB D	DRIVE END STONES LT	RT
UNIT	LIN. FT.	LIN. FT.	LIN. FT.	EACH	
PART A					
SUB TOTAL		570		6	6
ESTIMATED		5			
PART A TOTAL		575		12	
PART B					
SUB TOTAL	320.3	1528.6	69.1	8	8
ESTIMATED	4.7	6.4	3.9		
PART B TOTAL	325	1535	73	16	
PART A TOTAL		575		12	
CONTRACT TOTAL	325	2110	73	28	

†FOR CURBING SUMMARIES SEE SHEETS 28, 30, 42, 43

FORCE ACCOUNT WORK BY UTILITIES (PARTICIPATING)

ITEM NO	COMPANY	LOCATION	ITEM
308 A	BOSTON & MAINE RR.	PART A STA. 54+88	CONST. PREFABRICATED PLANK CROSSING - J-10 68'± LONG, REMOVE & RELOCATE EXIST. FLASHING LIGHT SIGNALS
308 B	MAINE CENTRAL R.R.	PART B STA. 14+65	CONST.-PREFABRICATED PLANK CROSSING - J-10 60'± LONG, REMOVE & RELOCATE EXIST. FLASHING LIGHT SIGNALS

ITEM 72-A
2" ASPHALT SIDEWALK

UNIT	TON
LOCATION	
PART A	
CONTRACT TOTAL	40

ITEM 72-B
3" ASPHALT SIDEWALK (DRIVE RAMPS)

UNIT	TON
LOCATION	
PART A TOTAL	15
PART B TOTAL	20
CONTRACT TOTAL	35

† 0.75 ACRES CLEARING & GRUBBING NON-PARTICIPATING
613 CU.YDS. ITEM 16.3 "
2,045 GALS. ITEM 20.1 "
116 TONS ITEM 24.1 "

ITEM 1
CLEARING & GRUBBING

STATION LOCATION		LETTER	ACRES
PART A			
55+05 - 56+70	L	A	0.17
56+60 - 57+20	L	B	.05
55+70 - 56+75	R	C	.07
SUB TOTAL			.29
FOR FENCING ETC. EST.			.06
PART A TOTAL			0.35
PART B			
82+80 - 83+30	R	D	0.03
15+00 - 16+25	R	E	.04
31+00 - 37+00	L-R	F	2.14
37+00 - 45+00	L-R	G	2.75
62+00 - 66+60	L-R	H	1.34
72+85 - 81+50	L-R	I	1.97
82+90 - 85+00	L-R	J	0.37
85+00 - 100+00	L-R	K	3.62
100+00 - 104+50	L-R	L	0.73
105+90 - 110+00	L-R	M	1.12
110+40 - 115+80	L-R	N	1.52
115+95 - 120+75	L-R	O	1.14
125+20 - 132+00	L-R	P	1.88
132+00 - 143+50	L-R	Q	4.09
APPROACH @ 115+85	R	(NON-PARTICIPATING)	
0+50 - 7+00	R	R	0.45 †
0+50 - 3+50	L	S	.21 †
4+80 - 6+30	L	T	.09 †
SUB TOTAL			23.49
FOR FENCING ETC. EST.			.66
PART B TOTAL			24.15
PART A TOTAL			0.35
CONTRACT TOTAL			24.5

SURFACING MATERIALS

ITEM NO	16.2	16.3	16.5	17	20.1	24.1
ITEM	SAND	GRAVEL	OVER-HAUL	CRUSHED GRAVEL	CLASS-A ASPH. SURF TREAT INCLUDING SAND COVER	TYPE I-1 HOT ASPH. CONC. PAVE
UNIT	CU. YD	CU. YD	C.Y. MI.	CU. YD	GAL	TON
LOCATION						
PART A						
ROADWAY		775		714	3238	428
SHOULDERS		52		41	740	
DRIVES & APPROACHES		336			924	36
SUB TOTAL		1163		755	4902	464
ESTIMATED		137	600	245	586	20
NON-PARTICIPATING					512+	116+
PART A TOTAL		1300	600	1000	6000 (5488)	600 (484)
PART B						
ROADWAY	14,707	19,646		8246	51,425	6115
SHOULDERS	5,074	4066		2814	29041	— —
DRIVES & APPROACHES	715	3280		674	9201	572
MAINTENANCE OF EXIST. RD.					5000	
SUB TOTAL	20,496	26,992		11,734	94,667	6,687
ESTIMATED	1,504	2,395	19,400	1,266	800	113
NON-PARTICIPATING		613+			1533+	
PART B TOTAL	22,000	30,000 (29,387)	19,400	13,000	97,000 (75,467)	6,800
PART A TOTAL	— —	1300	600	1000	6,000	600
CONTRACT TOTAL	22,000	31,300	20,000	14,000	103,000	7,400

REMOVING TREES AND STUMPS

ITEM NO		2.1	2.2	2.3
ITEM		REMOVING SMALL TREES	REMOVING LARGE TREES	STUMPS
UNIT	FT.	EACH	EACH	EACH
STATION LOCATION				
PART A				
55+53	29 R	1		
56+74	65 R	1		
+88	47 R	1		
+93	39 R	1		
57+55	41 R		1	
+71	30 L	1		
+89	20 R		1	
58+50	27 L	1		
60+47	26 L	1		
PART-A TOTAL		7	2	— —
PART B				
81+63	25 L	1		
+71	26 L	1		
+75	27 L	1		
+78	31 L	1		
82+04	23 L	1		
+17	22 L	1		
+25	24 L	1		
+38	24 L			1
+46	35 L			1
+62	30 L			1
83+46	24 L	1		
84+22	12 R			1
9+61	25 L			1
+72	23 L	1		
+81	26 L			1
15+58	57 R	1		
+88	57 R	1		
16+85	85 R		1	
18+07	29 L	1		
+43	14 L		1	
19+17	75 R		1	
20+06	3 R	1		
+10	14 L		1	
+22	22 L	1		
+26	30 L	1		
+28	36 L	1		
26+11	34 L		1	
28+12	45 L		1	
+41	34 R		1	
29+10	25 L	1		
123+51	2 L	1		
124+00	26 L	1		
+15	6 L	1		
+40	15 L	1		
141+50	140 R		2	
143+94	7 L	1		
145+67	27 L	1		
+78	29 L	1		
+85	34 L	1		
PART B TOTAL		25	9	6
PART A TOTAL		7	2	— —
CONTRACT TOTAL		32	11	6

ITEM 3
REMOVING ABANDONED RD. SURFACE

LOCATION	UNIT	SQ. YD.
PART B		
19+98 - 22+30	R	516
142+00 - 143+95	R	434
CONTRACT TOTAL		950

PROJ. No.	SHEET No.	TOTAL SH'TS.
F027-2(7)	6	127

NOTE BOOKS
BOOK NO. PAGE NO.

REVISIONS DATE STATION
AFTER PROPOSAL DESCRIPTION STATION

COMPILED BY CONNOR DATE 7-14-60
CHECKED BY KNOWLES DATE 2-18-60
INKED BY DATE
CHECKED BY DATE

1M 4-15-58 881 YELLUM MODERN BLUE PRINT CO., BOSTON, MASS.

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	F027 -2(7)	'61	7	127

SUMMARY OF QUANTITIES (ESTIMATED)

THIS INFORMATION IS FOR BIDDING PURPOSES ONLY
FOR ADDITIONAL QUANTITIES SEE SHEET NO:S 6 & 8

* NOT AN ITEM TOTAL

GUARD RAIL

ITEM NO.	G03	G05	G09	G11		G2
ITEM	3-CABLE GUARD RAIL	WOOD GUARD RAIL	ALUMINUM PIPE - 1½ GUARD RAIL	ANCHORAGES		POST MARKERS
STD. NO.	GR-3A	GR-5A SINGLE RAIL	DOUBLE RAIL			
UNIT	LIN. FT.	LIN. FT.	LIN. FT.	EACH REG.	EACH MULTI.	EACH
LOCATION						
PART A						
55+25 – 57+35 LT.	210				2	
56+70 – 58+86 RT.			216			
SUB TOTAL	210		216		2	
ESTIMATED	20		—		—	10
PART A TOTAL	230		216		2	10
PART B						
8+75 – 9+75 LT.	100				2	
14+45 – 14+90 LT.	45				2	
34+35 – 41+75 LT.-RT.	1480				6	
SUB TOTAL	1625				10	
ESTIMATED	25				—	90
PART B TOTAL	1650				10	90
CONTRACT TOTALS	1880		216		12	100

EARTHWORK

UNIT	PART A	PART B	CU. YD. TOTALS
EARTH EXCAVATION IN SECTIONS	637	39878	40515
MUCK EXCAVATION		11933	11933
TOPSOIL EXCAVATION		4023	4023
DRIVE AND APPROACH EXCAVATION (EARTH)	465	3875	4340
TOTAL EARTH EXCAVATION	1102	55705	60811
EARTH EXCAVATION FOR ESTIMATE (ITEM 5.1)	1200	60000	72000
SURPLUS TRENCH EXCAVATION (EARTH)	270	888	1158
EARTH EXCAVATION FOR EARTH FILL	1372	48664	50036
SURPLUS TRENCH EXCAVATION (LEDGE)		40	40
LEDGE FOR FILL		40	40
SECTIONS FILL	12663	215585	228248
TOPSOIL REPLACEMENT		4023	4023
MUCK REPLACEMENT 100%		11933	11933
DRIVE AND APPROACH FILL	760	7239	7999
TOTAL FILL	13423	238780	252203
LEDGE FOR FILL		40	40
EARTH FILL (BEFORE EXPANSION)	13423	238740	252163
SHRINKAGE FACTOR 20%			
EXPANDED EARTH FILL	16779	298425	315204
15% OF GRAVEL	+ 345	+ 9750	+ 10095
TOTAL EARTH FILL	17124	308175	325299
EARTH FOR FILL	- 1372	- 48664	- 50036
TOTAL EARTH BORROW	15752	259511	275263
EARTH BORROW FOR ESTIMATE (ITEM NO. 11.1)	16000	260000	276000
WASTE (MUCK)		5967	5967

LOCATION LOAM AND SOD

		*LOAM 4" DEEP SQ. YD.	*SOD SQ. YD.
PART A			
57+50± – 59+65±	LT.	391	
60+00 – 60+70	LT.	62	
60+80 – 61+50	LT.	62	
55+25± – 56+50	RT.	147	
58+35 – 59+10	RT.	142	
59+30±	RT.	25	
59+55 – 60+05	RT.	48	
60+70 – 60+95	RT.	67	
61+00 – 62+00	RT.	56	
PART B			
ABANDONED ROAD			
19+98 – 22+30	RT.	619	
142+00 – 143+95	RT.	520	
APPROACHES & ISLANDS			
22+67	RT.	344	
115+85	RT.	100	
141+50	RT.	133	
BRIDGE			
108+65 – 109+75	LT. & RT.	689	225
110+60 – 111+55	LT. & RT.	894	
IMPROVED SLOPES			
64+30 – 65+00±	RT.	100	25
80+00	RT.	44	
80+00 – 81+45	LT.	322	
80+50 – 81+45	RT.	105	
81+55 – 82+25	RT.	117	
81+55 – 82+88	LT.	560	
83+40 – 84+55	LT.	140	
5+60 – 7+00	LT.	156	
7+10 – 10+20	LT.	518	
10+40 – 11+50	RT.	58	
10+40 – 11+90	LT.	67	
11+70 – 13+25	RT.	344	
12+10 – 13+25	LT.	230	
EARTH BERMS			
142+50±	RT.	100	

* FOR ITEM TOTALS SEE LANDSCAPING & SLOPE PROTECTION

MISCELLANEOUS ITEMS

ITEM NO.	ITEM	UNIT	TOTAL
14.2	SCARIFYING B PART B	SQ. YD.	7000
77	UNIFORMED OFFICERS		
	PART A	50 HOUR	1450
	PART B	1400 HOUR	
78.1	PROJECT MARKERS		
	PART A		
	54+84.5 RT.	1 EACH	4
	61+50 RT.	1 EACH	
	PART B		
	9+00 LT.	1 EACH	
	144+50 RT.	1 EACH	
79	MAINTENANCE OF TRAFFIC		
	PART A	0.05 UNIT	1
	PART B	0.95 UNIT	
85	CALCIUM CHLORIDE		
	PART A	5 TON	65
	PART B	60 TON	
86	WATER		
	PART A	150 UNIT	2750
	PART B	2600 UNIT	
91.1	BOUNDS (FURNISHING & SETTING)		
	PART A	10 EACH	60
	PART B	50 EACH	
72.1	ASPHALT GUTTER PART B		
	34+50 LT.	30 SQ. YD.	90
	34+25 RT.		
	64+25± RT.	50 SQ. YD.	
	65+15± RT.		
	143± LT.	10 SQ. YD.	

REFLECTORIZED DELINEATORS
(NOT A PART OF THE CONTRACT)

UNIT	EACH
TOTAL	180

STOP SIGNS
(NOT A PART OF THE CONTRACT)

UNIT	EACH
LOCATION	
PART B	
8+50 R	1
16+75 R	1
23+15 R	1
116+00 R	1
142+10 R	1
TOTAL	5

MORTAR RUBBLE MASONRY RETAINING WALL

STA. 58+55 – 58+83 RT.
PART A

ITEM NO.	ITEM	UNIT	TOTAL
*6.1	EARTH TRENCH EXCAVATION, D. CLASS A	CU. YD.	8
*16.4	GRAVEL FOR SPECIAL PURPOSES	CU. YD.	10
*38.4	MORTAR RUBBLE MASONRY	CU. YD.	11

* TO DRAINAGE SUMMARY

LANDSCAPING AND SLOPE PROTECTION

ITEM NO.	6.1	65	69	80	81	82	83	84
ITEM	EARTH TR. EXC. R CL. A	HALF CIRCLE SLUICE 24"	CURB BOARD	LOAM 4" DEEP	SOD	FERTILIZER	GRASS SEED	MULCH
UNIT	CU. YD.	LIN. FT.	LIN. FT.	SQ. YD.	SQ. YD.	LB.	LB.	TON
PART B								
LOCATION								
ISLANDS AT APPROACHES				577		155	9	
IMPROVED SLOPES		258	800	2801	25	730	30	70
ABANDONED ROAD				1139		308	13	
BRIDGE				1583	225	427	18	
BERM DITCH	15							
EARTH BERMS				100				
PART B TOTALS	15*	258*	800	6200	250	1620	70	70
PART A	—	—	—	1000		280	15	2
CONTRACT TOTALS	15*	258*	800	7200	250	1900	85	72

* TO DRAINAGE SUMMARY

PROJ. NO.	SHEET NO.	TOTAL SHTS
F027-2(7)	7	127

NOTE BOOKS — BOOK NO. / PAGE NO.

DESCRIPTION

REVISIONS — DATE / STATION — AFTER PROPOSAL

COMPILED BY KNOWLES DATE 7-15-66
CHECKED BY CONNOR & KNOWLES DATE 7-21-66
INKED BY DATE
CHECKED BY DATE

1M 4-1-60 60: YELLOW MODERN BLUE PRINT CO., BOSTON, MASS.

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	F027-2(7)	'61	8	127

SUMMARY OF QUANTITIES (ESTIMATED)

THIS INFORMATION IS FOR BIDDING PURPOSES ONLY
FOR ADDITIONAL QUANTITIES SEE SHEET NO.'S 6, 7

* NOT AN ITEM TOTAL

FORCE ACCOUNT WORK BY UTILITIES
(NON-PARTICIPATING)

ALTERATIONS TO PUBLIC UTILITY POLES, WIRES AND OTHER PROPERTY

ITEM NO.	COMPANY
308 C	NEW ENGLAND TEL. & TEL.
308 D	WHITE MTN. POWER

BRIDGE QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
7.3	UNCLASSIFIED CHANNEL EXCAVATION	4800	CU. YD.
8.3	UNCLASSIFIED STRUCT. EXCAVATION	30	CU. YD.
24.2	TYPE I-1 HOT ASPH. CONC. W.C. FOR BR.	74.5	TONS
32.1	CONCRETE CLASS A	124.4	CU. YD
32.6	CONCRETE CLASS AA	157	CU. YD
32.8	WATER REPELLENT	12	GALS.
*35	REINFORCING STEEL	35,400	LB.
36.1	STRUCTURAL STEEL	1	UNIT
36.2	BRIDGE SHOES	1	UNIT
43.3	STEEL BEARING PILES	118,625	LB.
43.4	PILE LOADING TESTS	2	EACH
43.5	PILE DRIVING EQUIPMENT	1	UNIT
43.6	PILE SPLICES	7	EACH
44	BRIDGE RAILING E	281.4	L.F.
50	STONE FILL	410	CU. YD
130	WATERPROOFING (TAR-EPOXY MIX)	1	UNIT

BCCMP UNDER ~~RR.~~ R.R.
STA. 14+69
PART B

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
* 6.1	EARTH TRENCH EXCA. R, CL. A	3	CU. YD.
32.3	CONCRETE CLASS C	3	CU. YD.
* 35	REINFORCING STEEL	26	LB.
* 40.10	54" BCCMP (10 GA)	38	L.F.
* 49.5	RIP RAP E	2.55	CU. YD.

* TO DRAINAGE SUMMARY

NOTE BOOKS

BOOK NO.	PAGE NO.
"	"
"	"
"	"
"	"
"	"

REVISIONS

DATE	REVISION	DATE	REVISION

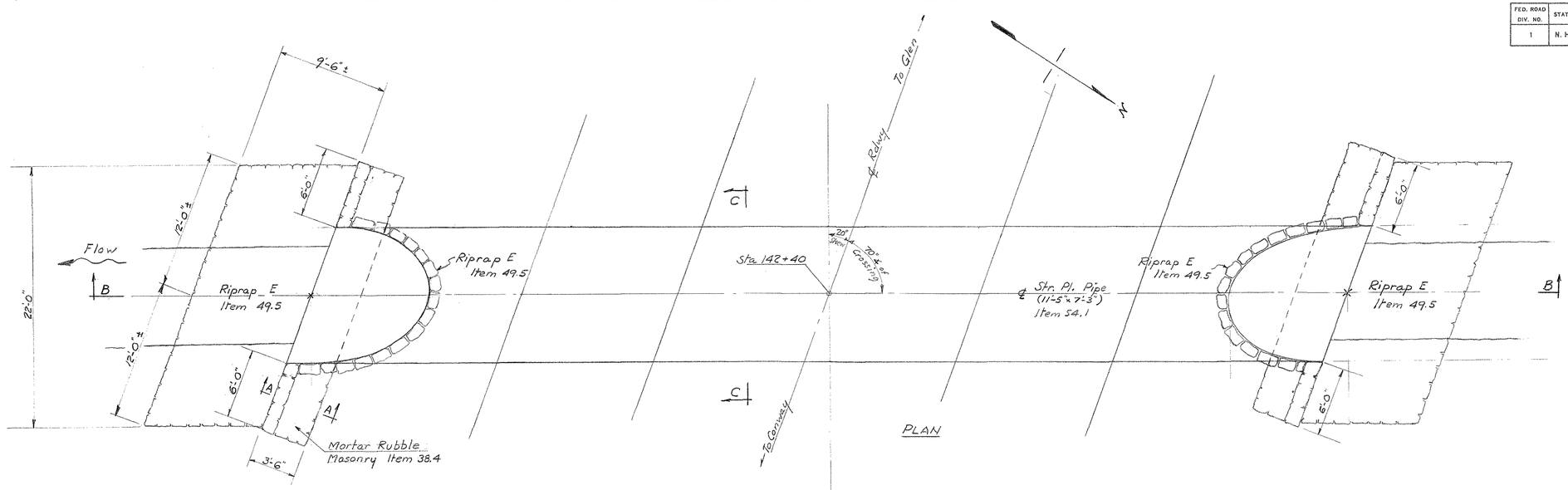
AFTER PROPOSAL

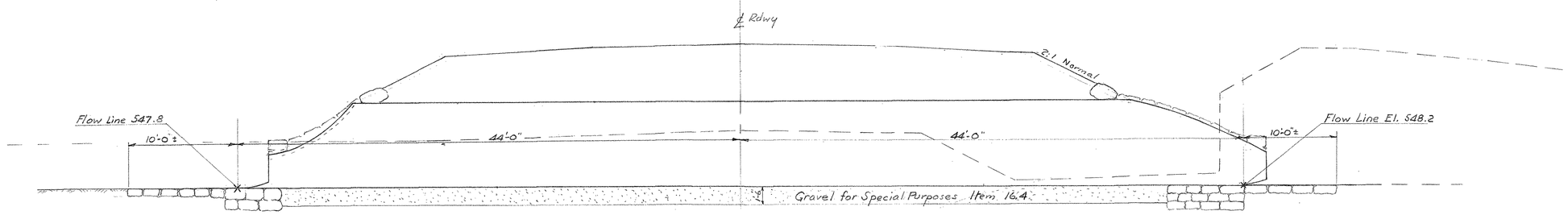
DESCRIPTION	DATE
COMPILED BY CONNOR	DATE 7-15-60
CHECKED BY KNOWLES	DATE 7-18-60
INKED BY	DATE
CHECKED BY	DATE

PROJ. No.	SHEET No.	TOTAL SH'TS
F027-2(7)	8	127

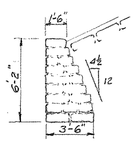
1M 4-15-55 591 VELLUM MODERN BLUE PRINT CO., BOSTON, MASS.

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F 027 -2(7)	'61	9	127

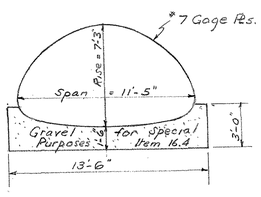




SECTION B-B

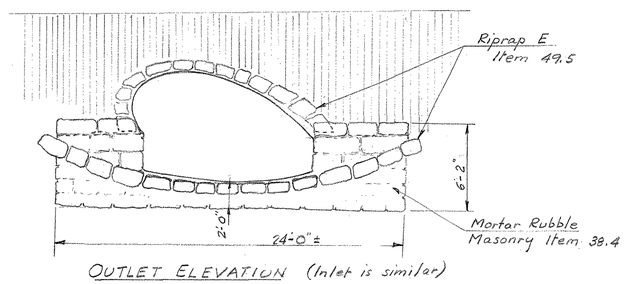


SECTION A-A



SECTION C-C

No Scale



OUTLET ELEVATION (Inlet is similar)

GENERAL NOTES

Design Load: H20
Specifications: A.A.S.H.O. 1957.
N.H. D.P.W.&H. 1954 & Supplement 1958.

* ESTIMATE OF QUANTITIES			
ITEM No.	DESCRIPTION	QUANTITY	
6.1	Earth Trench Excavation R, Cl. A	300	C.Y.
6.3	Ledge Trench Excavation R	50	C.Y.
16.4	Gravel for Special Purposes	95	C.Y.
38.4	Mortar Rubble Masonry	24	C.Y.
49.5	Riprap E	25	C.Y.
54.1	Structural Plate Pipe (11'-5"x7'-3")	1	Unit
	*To Drainage Summary		

APPROVED [signature] BRIDGE ENGINEER DATE 7/21/60

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN BARTLETT / CONWAY-BARTLETT — BRIDGE NO. 232/147
FEDERAL PROJECT F 027-2 (7) — STATE PROJECT P-389 7
ROUTE NO. N.H. 16 RELOC. U.S. 302 OVER BROOK FROM THORN HILL
LOCATION LOWER BARTLETT

11'-5"x7'-3" STR.-PLATE PIPE ARCH (STA. 142+40)

Sheet Scale: 1" = 5'-0"

	BY	DATE
DESIGNED	V.S.B.	6/60
DRAWN	V.S.B.	7/60
TRACED	–	–
QUANTITIES	V.S.B.	7/60

	BY	DATE
CHECKED	A.M.W.	7-60
CHECKED	A.M.W.	7-60
CHECKED	–	–
CHECKED		

BRIDGE SHEET NO. 1 OF 2

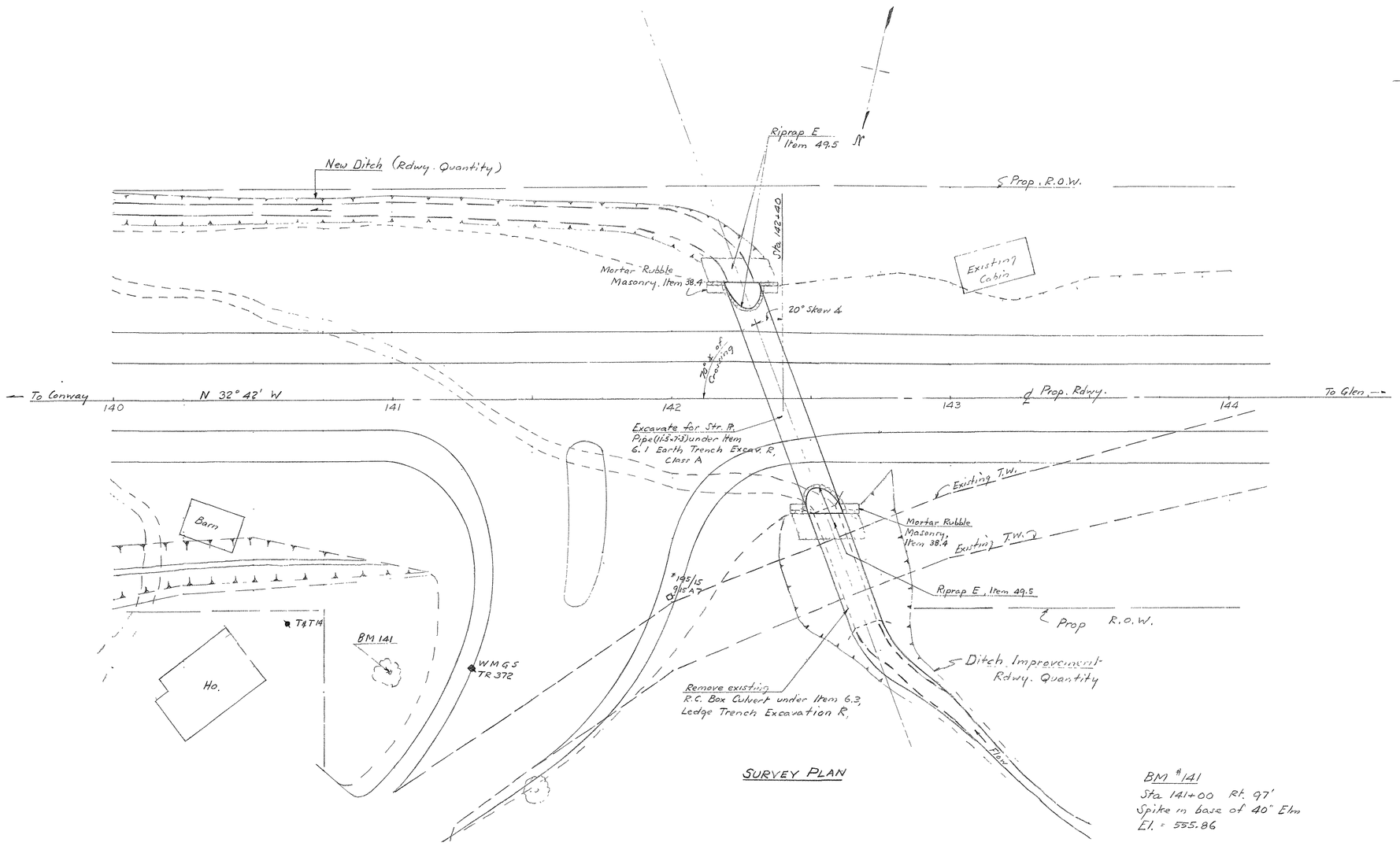
FILE NUMBER 3-7-4-4

△	DESCRIPTION	BY	DATE

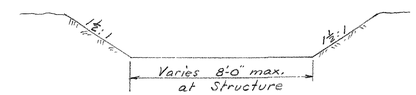
REVISIONS

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	9	127

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027 -2(7)	'61	10	127

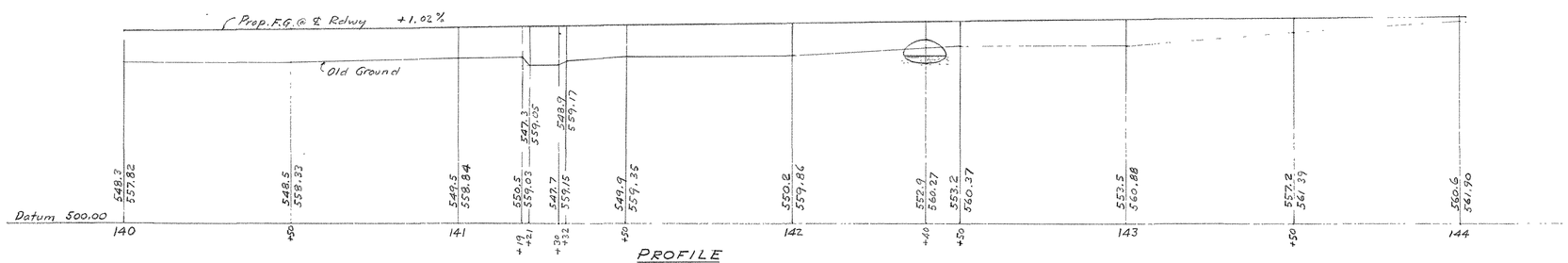


SURVEY PLAN



TYPICAL DITCH SECTION
No Scale

BM #141
Sta 141+00 Rt. 97'
Spike in base of 40" Elm
El. = 555.86



PROFILE

Scale: 1" = 20' except as noted

△	DESCRIPTION	BY	DATE

REVISIONS

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN BARTLETT CONWAY-BARTLETT BRIDGE NO. 232/147
FEDERAL PROJECT F 027-2(7) STATE PROJECT P-3897
ROUTE NO. U.S. 302 N.H. 16 RELOC. OVER BROOK FROM THORN HILL
LOCATION LOWER BARTLETT

SURVEY PLAN & PROFILE

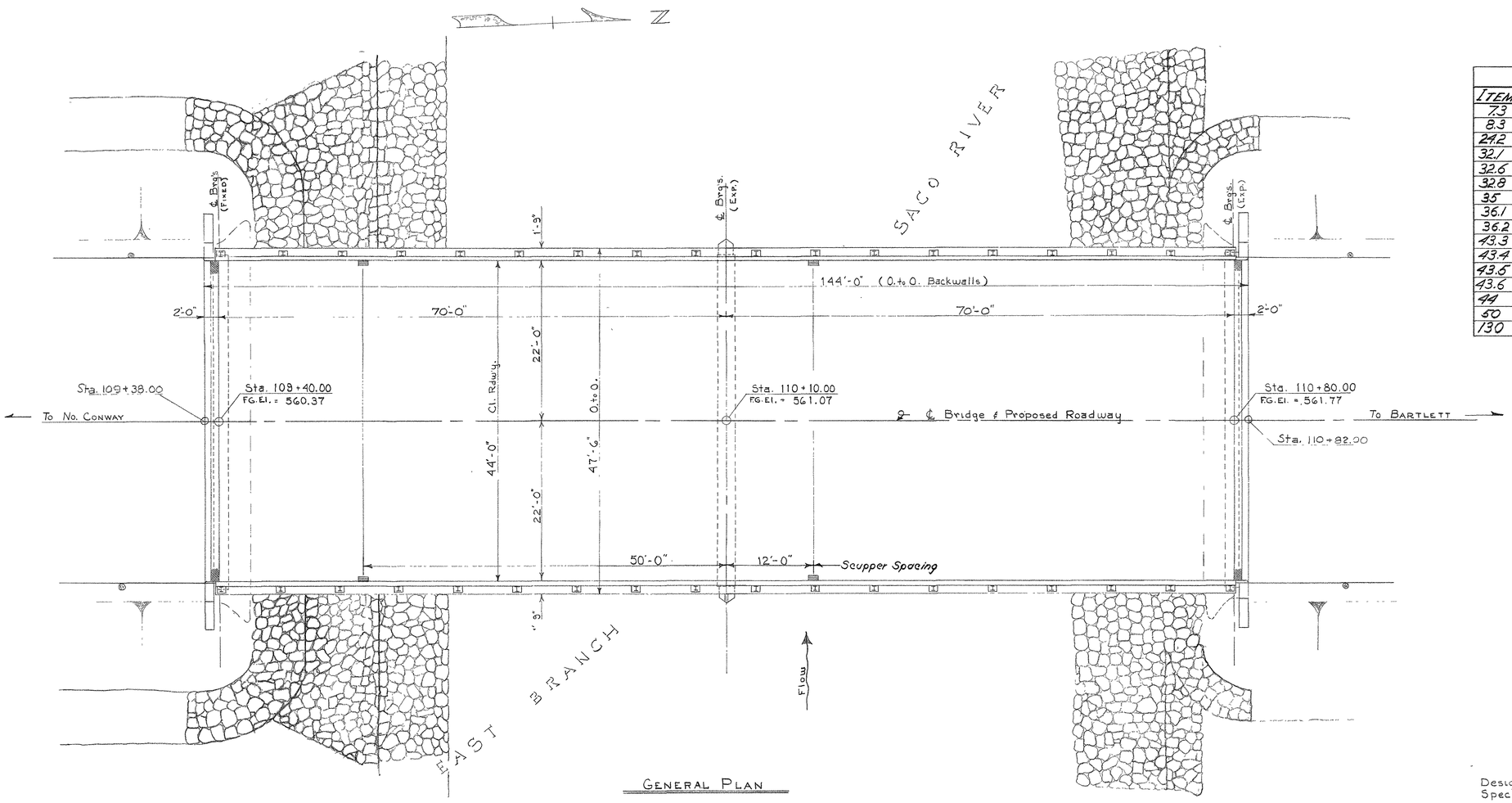
	BY	DATE		BY	DATE
DESIGNED	—	—	CHECKED	—	—
DRAWN	V.S.B.	7/60	CHECKED	A.M.W.	7-60
TRACED	—	—	CHECKED	—	—
QUANTITIES	V.S.B.	7/60	CHECKED		

BRIDGE SHEET NO. 2 OF 2

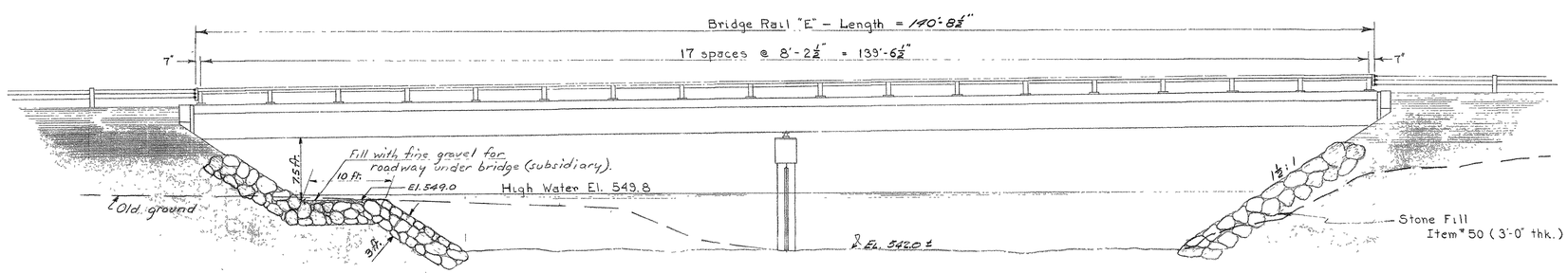
FILE NUMBER 3-7-4-4

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F-027-2(7)	10	127

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	11	127



GENERAL PLAN



ELEVATION

BRIDGE QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
7.3	Unclassified Channel Excav.	4800	C.Y.
8.3	Unclassified Struct. Excav.	30	C.Y.
24.2	Type I-I Hot Asph. Conc. W.C. for Br.	74.5	TONS
32.1	Concrete Class A	124.4	C.Y.
32.6	Concrete Class AA	157.0	C.Y.
32.8	Water Repellent	12	GALS.
35	Reinforcing Steel	35,400	L.B.
36.1	Structural Steel	1	UNIT
36.2	Bridge Shoes	1	UNIT
43.3	Steel Bearing Piles	118,625	L.B.
43.4	Pile Loading Tests	2	EACH
43.5	Pile Driving Equipment	1	UNIT
43.6	Pile Splices	7	EACH
44	Bridge Railing E	281.4	L.F.
50	Stone Fill	410	C.Y.
130	Waterproofing (Tar-Epoxy Mix)	1	UNIT

~ GENERAL NOTES ~

Design Loading : H20-S16-44
Specifications : A.A.S.H.O. 1957
N.H.D.P.W. & H. 1954 & Supplement 1958.
Design Pile Load : 45 tons @ pier , 50 tons @ Abut.
Concrete shall be Class A, except deck to be Class AA.
All concrete to be 3000# air entrained.
Reinforcing steel to be Inter. Grade (20,000 psi)
Main reinforcing shall be 2" clear from surfaces, except as noted.

Drainage Area : 25,600 acres
Waterway Area :
Existing Structure – 870 □' ± plus relief
Proposed Structure – 1400 □' ±

APPROVED _____ Bridge Engineer DATE 7/21/60

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN BARTLETT BRIDGE NO. 241/137
FEDERAL PROJECT F 027-2(7) (CONWAY - BARTLETT) STATE PROJECT P-3897
ROUTE NO. N.H. 16 (US 302) RELOC. OVER EAST BRANCH SACO RIVER
LOCATION LOWER BARTLETT

Sheet Scale : 1/8" = 1'-0"

△	DESCRIPTION	BY	DATE

REVISIONS

GENERAL PLAN & ELEVATION

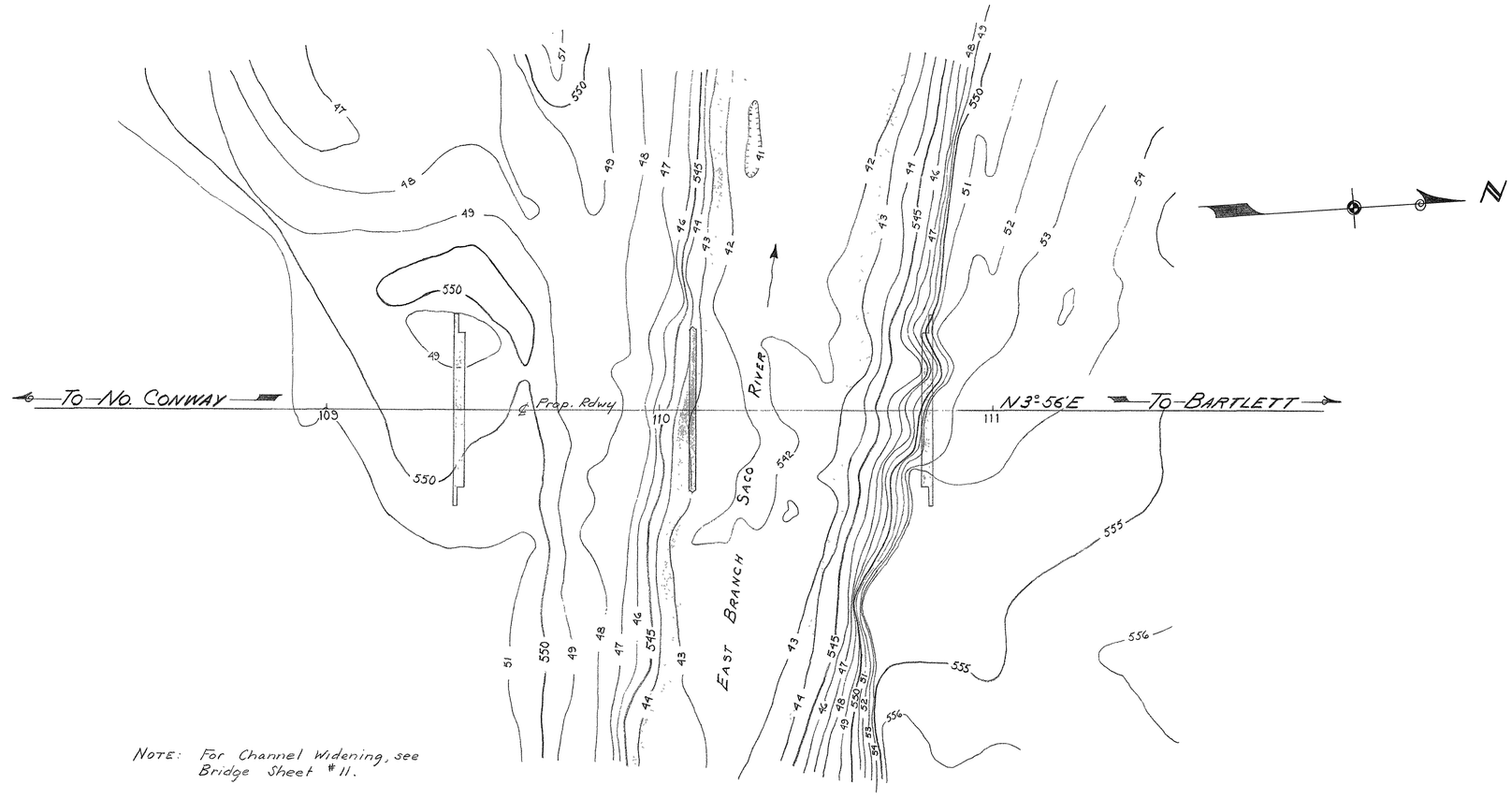
	BY	DATE		BY	DATE
DESIGNED	J.B.R.	10-59	CHECKED	A.J.L.	11-59
DRAWN	J.B.R.	2-60	CHECKED	A.J.L.	5-60
TRACED	—	—	CHECKED	—	—
QUANTITIES	RAB	5-60	CHECKED	RAM	5-60

BRIDGE SHEET NO. 1 OF 16
FILE NUMBER 3-7-2-6

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	11	127

PRINTED BY SMALLEY-MOSS CO. BOSTON MASS.

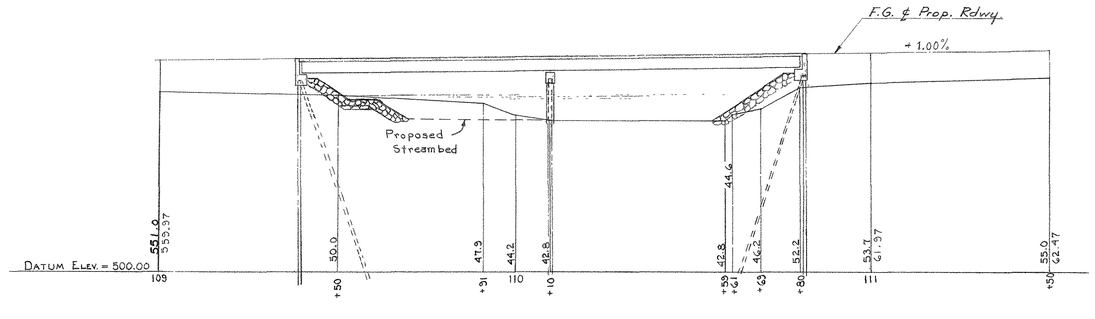
FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	12	127



NOTE: For Channel Widening, see Bridge Sheet #11.

SURVEY PLAN

BENCH MARK #110
Sta. 110+95, 96' Lt.
Spike in 106" Oak
Elev. 552.17.



PROFILE

Sheet Scale : 1" = 20'

△	DESCRIPTION	BY	DATE

REVISIONS

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN BARTLETT (CONWAY-BARTLETT) BRIDGE NO. 241/137
FEDERAL PROJECT US 302 F 027-2(7) STATE PROJECT P-3897
ROUTE NO. NH. 16 RELOC. OVER EAST BRANCH SACO RIVER
LOCATION LOWER BARTLETT

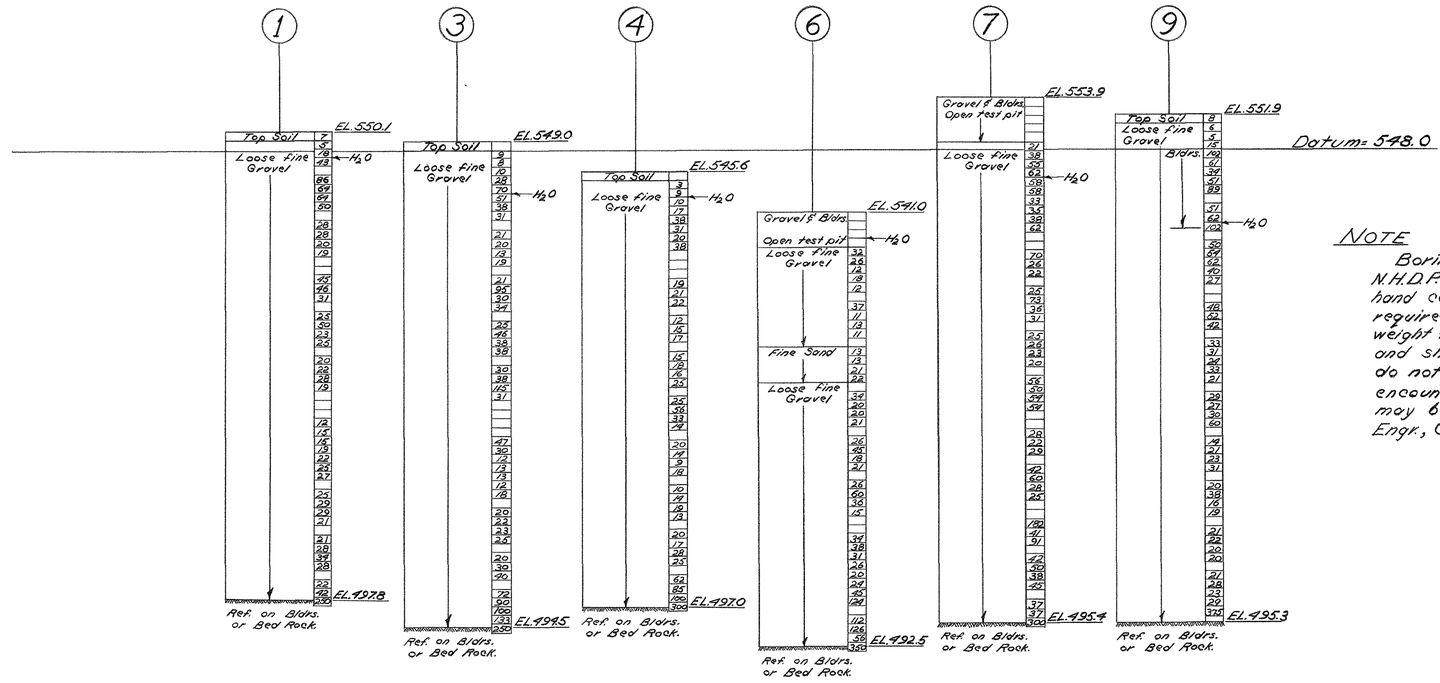
SURVEY PLAN & PROFILE

	BY	DATE		BY	DATE	BRIDGE SHEET NO.
DESIGNED			CHECKED			2 OF 16
DRAWN	J.B.R	2-60	CHECKED	AJL	5-60	
TRACED			CHECKED			FILE NUMBER
QUANTITIES	RAB	5-60	CHECKED	RAM	5-60	3-7-2-6

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	12	127

PRINTED BY SMALLING-MOSS CO. BOSTON, MASS.

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027 -2(7)	'61	13	127

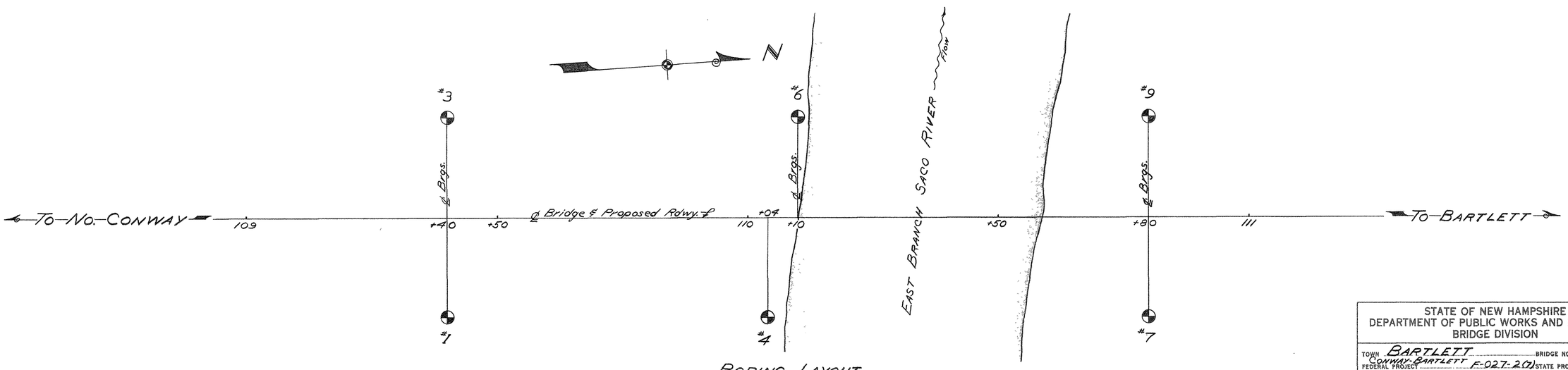


BORINGS

Vert. Scale: 1/8" = 1'-0"

NOTE

Borings indicated thus ◐ were made by the N.H.D.P. Wks. & Hwys. in Dec. 1959. Figures in right hand column indicate the number of blows required to drive a 1 5/8" O.D. A-rod one foot. A 140# weight falling 30" was used. Borings are for design and show conditions at boring points only and do not necessarily indicate material to be encountered during construction. Boring samples may be examined at the office of the Bridge Engr., Concord, N.H.



BORING LAYOUT

Scale: 1" = 10'-0"

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN BARTLETT BRIDGE NO. 241/137
FEDERAL PROJECT CONWAY-BARTLETT F-027-2(7) STATE PROJECT P-3897
ROUTE NO. US 302 RELOCATION EAST BRANCH SACO RIVER
LOCATION N.H. 16 LOWER BARTLETT

BORINGS

	BY	DATE		BY	DATE	BRIDGE SHEET NO.
DESIGNED			CHECKED			3 OF 16
DRAWN RAB		2-60	CHECKED JBR		2-60	
TRACED			CHECKED			FILE NUMBER
QUANTITIES			CHECKED			3-7-2-6

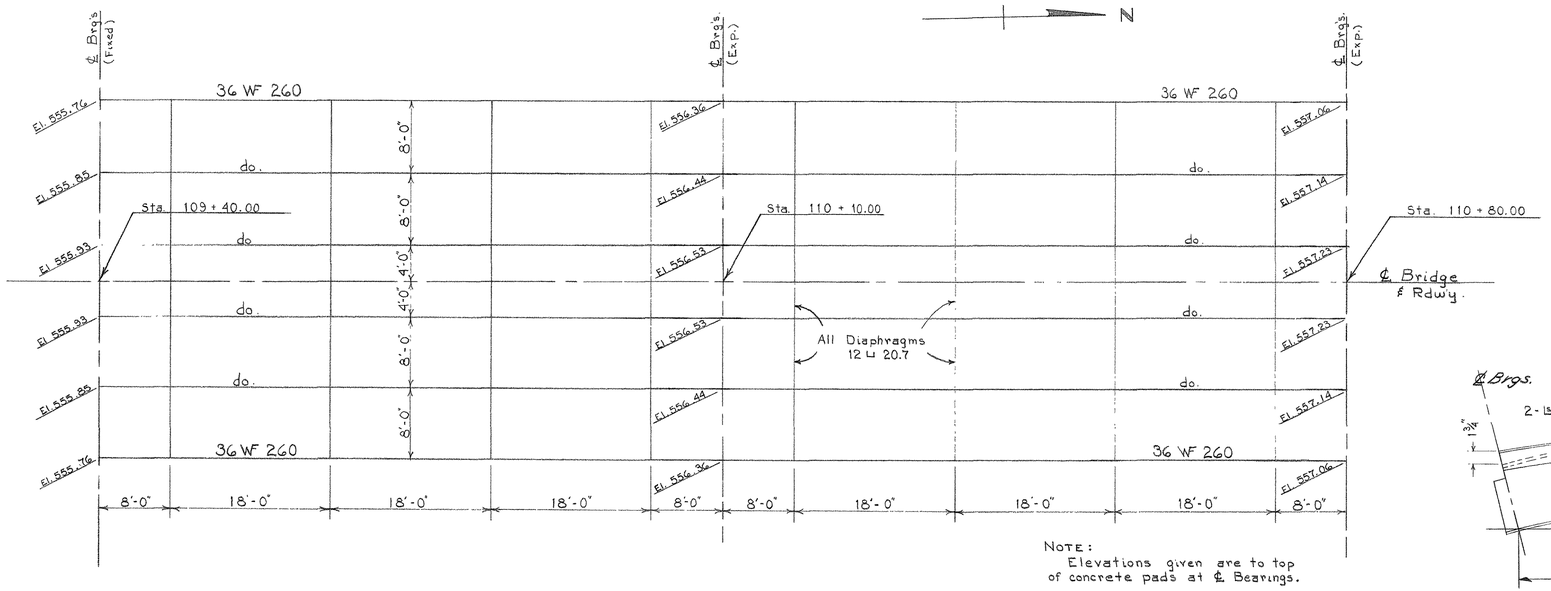
△	DESCRIPTION	BY	DATE

REVISIONS

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	13	127

PRINTED BY SANBORN MOSS CO. BOSTON MASS

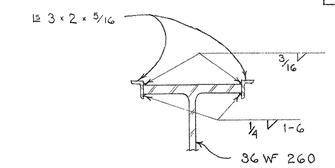
FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027 -2 (7)	'61	14	127



NOTE:
Elevations given are to top of concrete pads at ℄ Bearings.

STEEL FRAMING PLAN

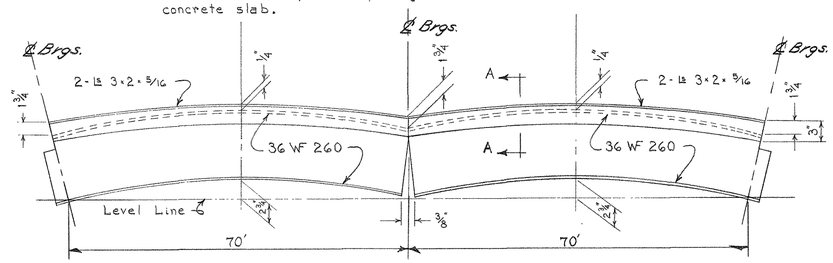
Scale : 1/8" = 1'-0"



SECTION A-A

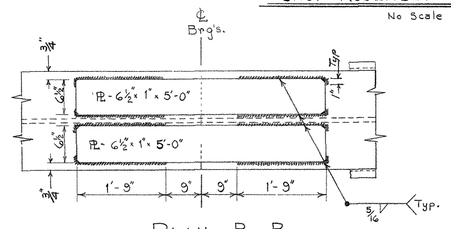
Scale : 1" = 1'-0"

NOTE:
Stringers in any given line to be of equal depth.
Openings as shown to be verified in field prior to placing concrete slab.



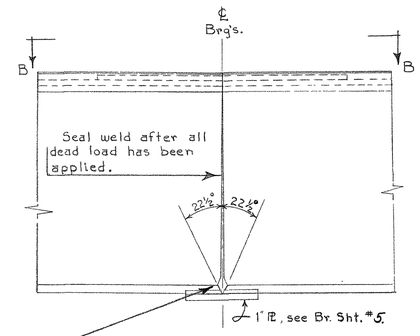
SHOP ASSEMBLY DIAGRAM

No Scale



PLAN B-B

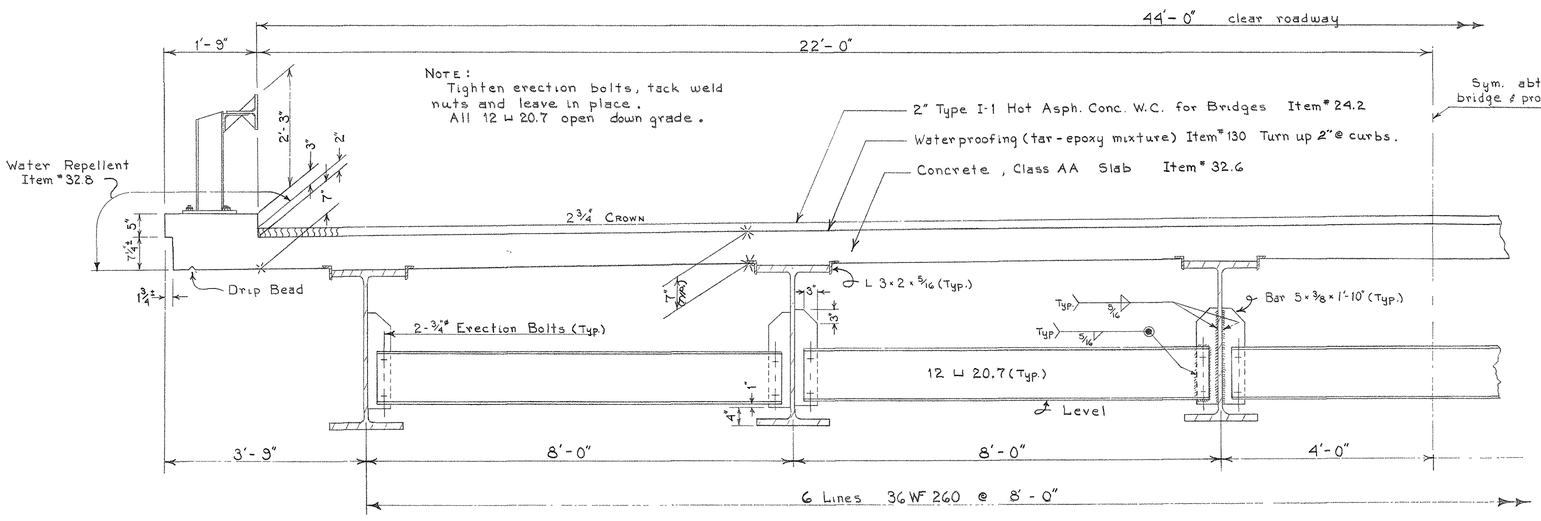
No Scale



Chamfer bottom flanges 22½° with vertical and grind lower edges smooth to 1/8" radius. After all dead load is applied fill gap with weld metal and weld stringer flange to 1" PL.

TYPICAL STRINGER CONNECTION

No Scale



HALF TRANSVERSE SECTION

Scale : ¾" = 1'-0"

Estimated Wt. of Struct. Steel — 246,200 #

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN: BARTLETT (CONWAY-BARTLETT) — BRIDGE NO. 241/137
FEDERAL PROJECT: F 027-2(7) — STATE PROJECT: P-3897
ROUTE NO.: NH 16 US 302 — REPLCS. OVER: EAST BRANCH SACO RIVER
LOCATION: LOWER BARTLETT

FRAMING PLAN, X-SECTION & STEEL DETAILS

	BY	DATE		BY	DATE
DESIGNED	J.B.R.	10-59	CHECKED	A.J.L.	11-59
DRAWN	J.B.R.	2-60	CHECKED	AJL	5-60
TRACED	—	—	CHECKED	—	—
QUANTITIES	RAB	5-60	CHECKED	RAM	5-60

BRIDGE SHEET NO. 4 OF 16
FILE NUMBER 3-7-2-6

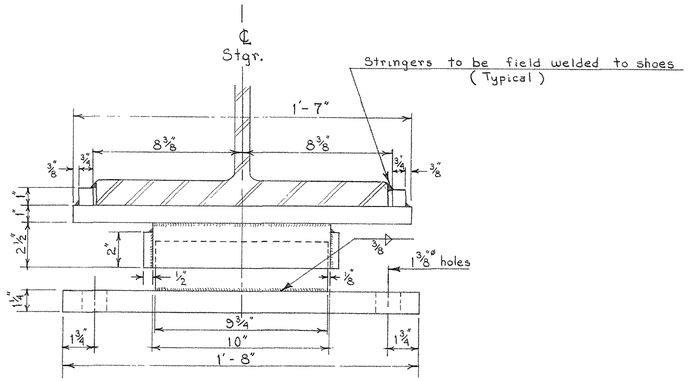
PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2 (7)	14	127

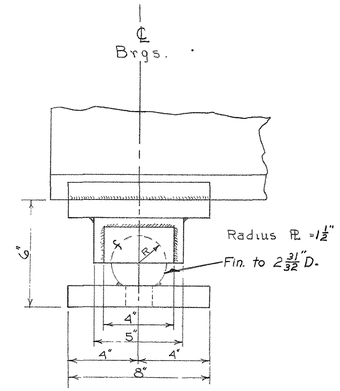
△	DESCRIPTION	BY	DATE

REVISIONS

PRINTED BY SMALDING-MOSS CO. BOSTON MASS.

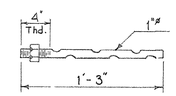
FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	15	127





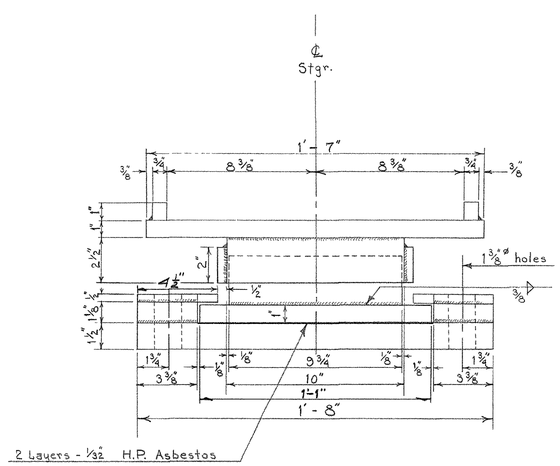
FIXED SHOE FOR SO. ABUT. (6 req'd.)

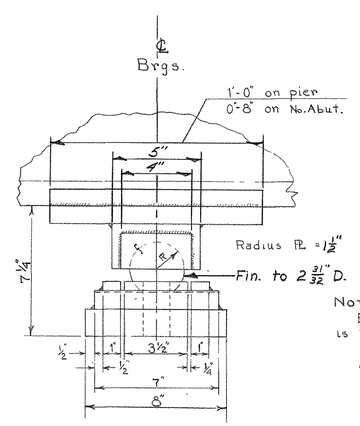
Scale: 3" = 1'-0"



36-ANCHOR BOLTS (Item #36.2)

N.T.S





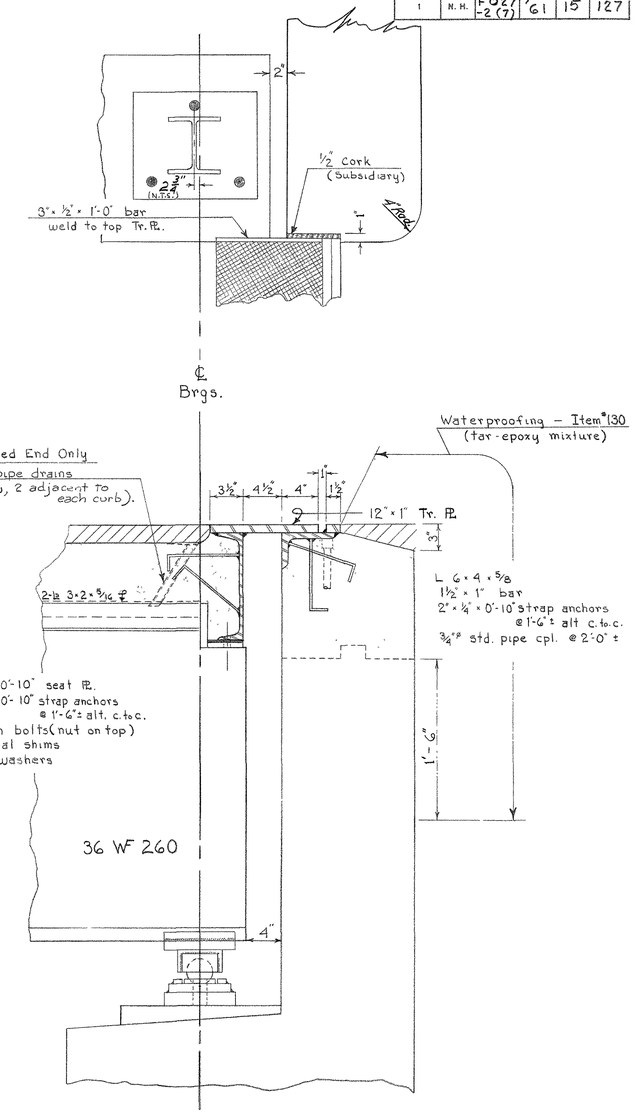
EXP. SHOE FOR PIER & NO. ABUT. (12 req'd.)

Scale: 3" = 1'-0"

NOTE:
Exp. shoe for pier shown, shoe for No. Abut. is identical except as noted above.

All welds to be 1/4" fillet except as noted.

Prefabricated Pads
In lieu of the canvas and red lead under the bearing plates, prefabricated pads approved by the Engineer may be used. Each piece shall be the same size as the bearing plate it is to support and the holes to accomodate the anchor bolts shall be cleanly and accurately punched before setting the pad in place.



TYPICAL END DAM DETAILS

Scale: 1 1/2" = 1'-0"

NOTE:
End dams at North & South abutments are identical, except as noted.

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN BARTLETT (Conway - Bartlett) BRIDGE NO. 241/137
FEDERAL PROJECT F027-2(7) STATE PROJECT P-3897
ROUTE NO. US 302 NH 16 Reloc. OVER EAST BRANCH SACO RIVER
LOCATION LOWER BARTLETT

△	DESCRIPTION	BY	DATE

REVISIONS

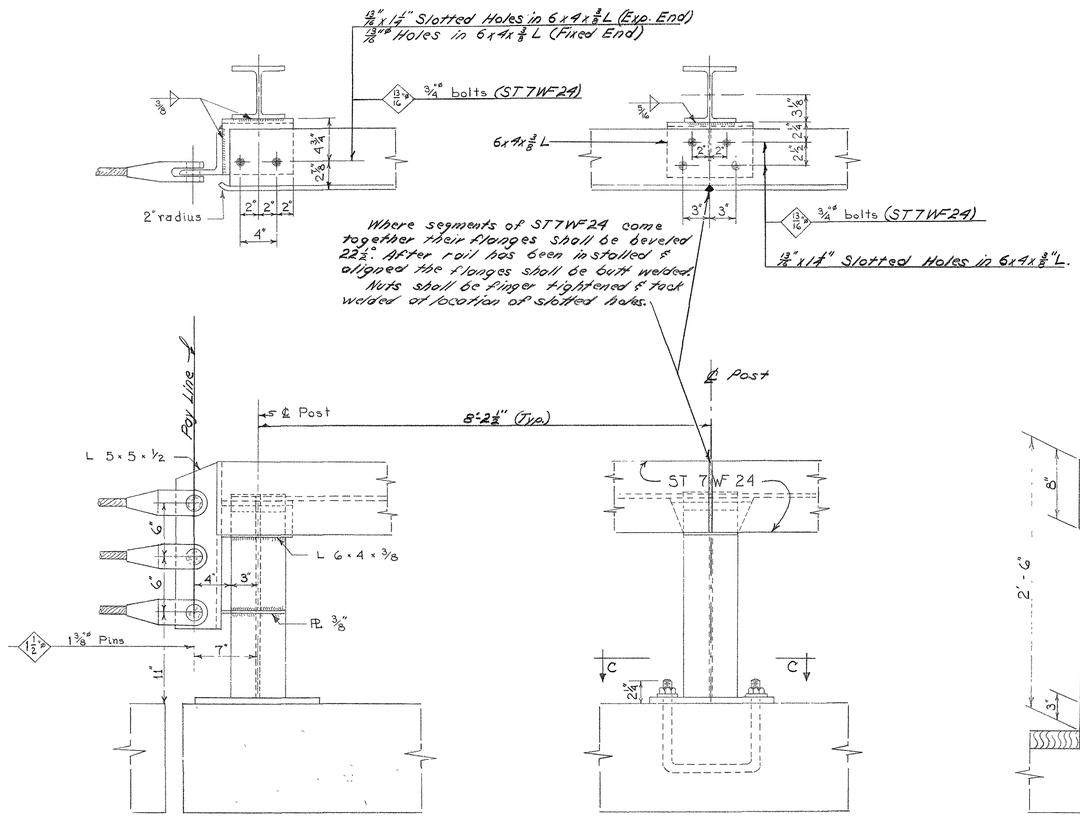
BRIDGE SHOES & END DAM DETAILS

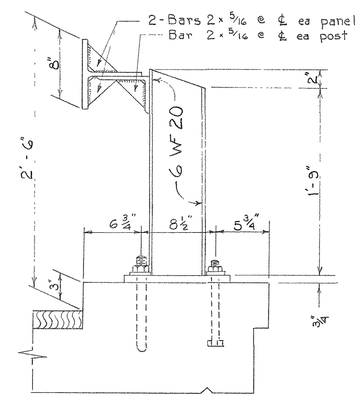
	BY	DATE		BY	DATE	
DESIGNED	RAB/JBR	2-60	CHECKED	JBR/RAB	3-60	BRIDGE SHEET NO.
DRAWN	J.B.R.	3-60	CHECKED	AJL	5-60	5 OF 16
TRACED	—	—	CHECKED	—	—	FILE NUMBER
QUANTITIES	RAB	5-60	CHECKED	RAM	5-60	3-7-2-6

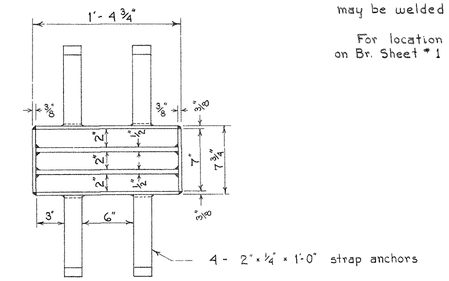
PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	15	127

PRINTED BY SMALLDON & MOSS CO. BOSTON MASS

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	61	16	127







SCUPPER NOTES:

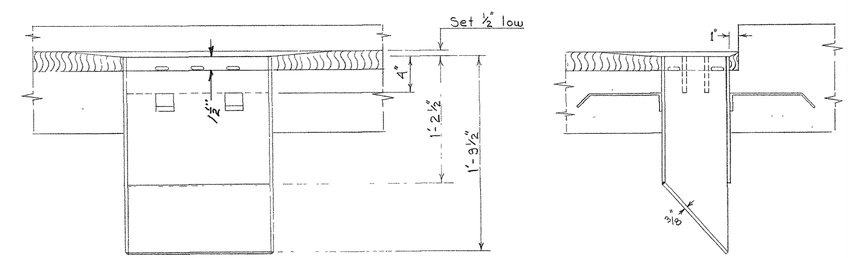
Provide bleeder slots 1½" x 3/8". Locate as shown, 2" down from finished grade.

Scuppers to be paid for as part of Structural Steel, Item # 36.1.

Omit paint on inside of scuppers and replace with Waterproofing (tar-epoxy mixture), Item # 130 without sand cover.

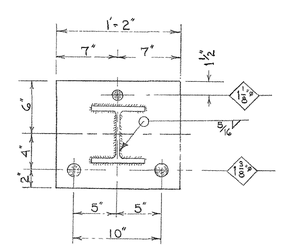
All welds to be 5/16" fillet, except strap anchors may be welded with ¼" fillet.

For location of scuppers see the General Plan on Br. Sheet # 1.



DETAIL OF SCUPPER (4 req'd.)

1- Anchor bolt 3/4" x 0'-10"
1- Anchor bolt (U) 1" x 2'-5"
1- PL 12 x 3/4" x 1'-2"
Hex nuts & washers



SECTION C-C

BRIDGE RAIL DETAIL

RAIL NOTES:

All posts shall be normal to finish grade.

Base PL's. to be flat & true after welding.

Caulk with lead wool to secure full bearing.

Rails to have one shop coat of red lead & oil, and two field coats of approved paint.

Grind all *sharp edges smooth.*

All welds to be ¼" fillet except as noted.

Cost of clevis type sockets, pins, & all work incidental to their assembly & installation shall be subsidiary to Item # 44.

All fittings to be galvanized.

Sheet Scale: 1½" = 1'-0"

Δ	DESCRIPTION	BY	DATE

REVISIONS

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN BARTLETT (Conway - Bartlett) BRIDGE NO. 241/137
FEDERAL PROJECT F027-2(7) STATE PROJECT P-3897
ROUTE NO. US 302 NH 16 Relocs. OVER EAST BRANCH SACO RIVER
LOCATION LOWER BARTLETT

RAIL & SCUPPER DETAILS

	BY	DATE		BY	DATE	BRIDGE SHEET NO.
DESIGNED	J.B.R.	3-60	CHECKED	R.A.M.	3-60	6 OF 16
DRAWN	J.B.R.	3-60	CHECKED	AdL	5-60	
TRACED			CHECKED			FILE NUMBER
QUANTITIES	RAB	5-60	CHECKED	RAM	5-60	3-7-2-6

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2 (7)	16	127

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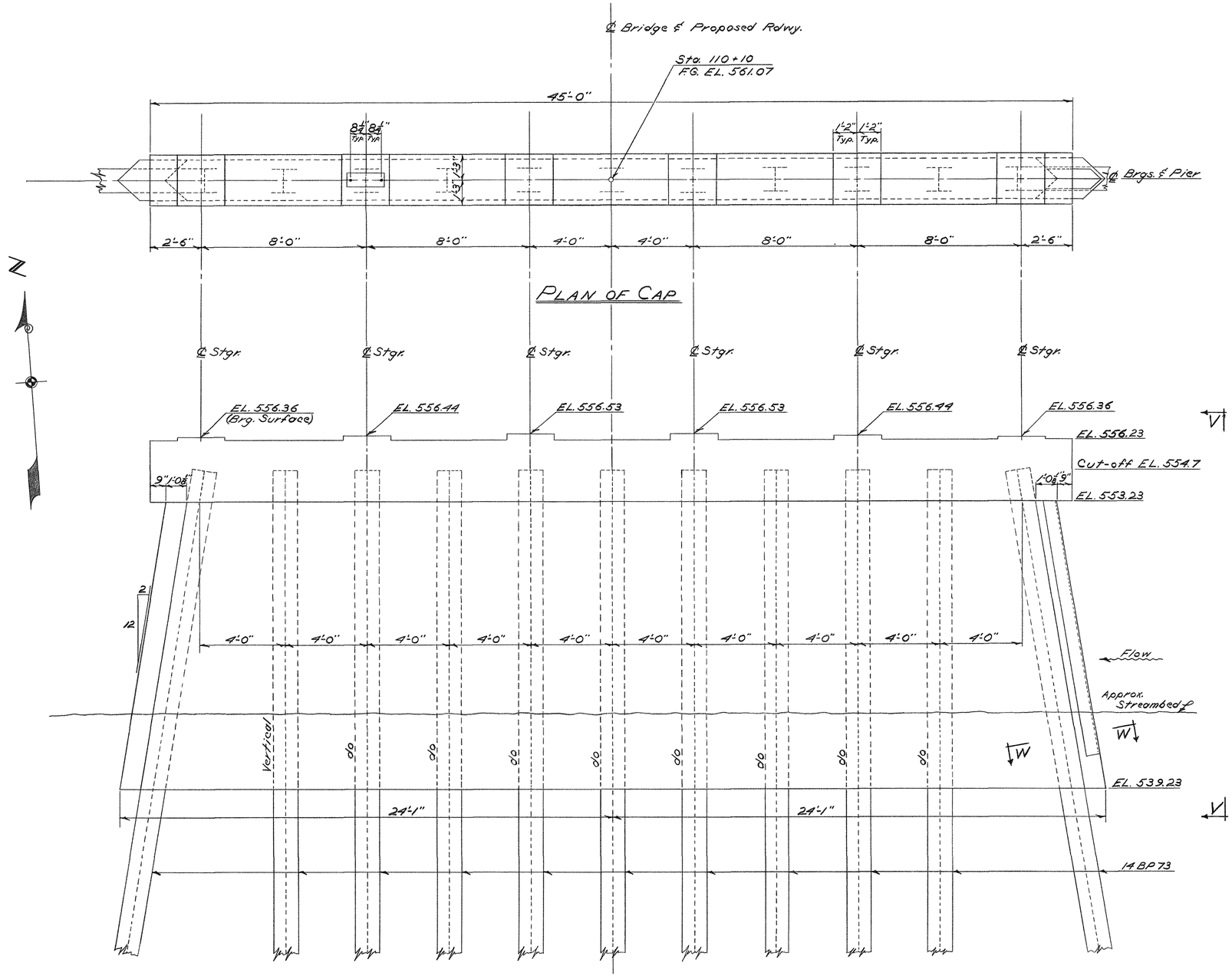
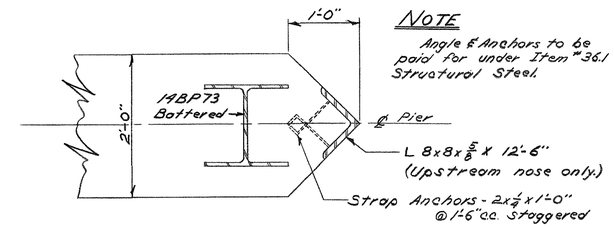
FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027 -2 (7)	'61	17	127

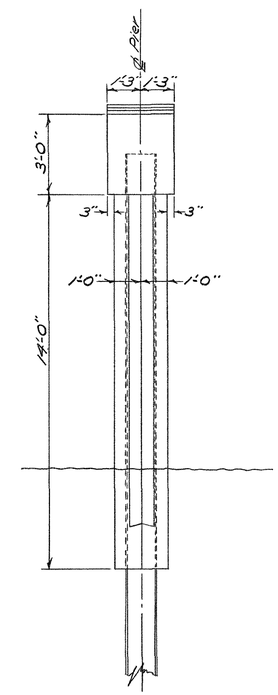


ELEVATION



SECTION W-W
Scale: 1"=1'-0"

NOTE
Angle & Anchors to be paid for under Item #36.1 Structural Steel.



ELEVATION V-V

PILE NOTES
It is suggested that piles be driven with a McKiernan-Terry #1083 hammer or equal.
Piles to be driven to refusal or as directed by the Engineer.
Design load on piles - 45 tons.
Estimated length of piles 65'.

Sheet Scale: 3/8"=1'-0" (Except as noted)

△	DESCRIPTION	BY	DATE

REVISIONS

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN BARTLETT BRIDGE NO. 241/137
FEDERAL PROJECT CONWAY-BARTLETT F-027-2(7) STATE PROJECT P-3897
ROUTE NO. U.S. 302 RELOC. OVER EAST BRANCH SACO RIVER
LOCATION N.H. 16 LOWER BARTLETT

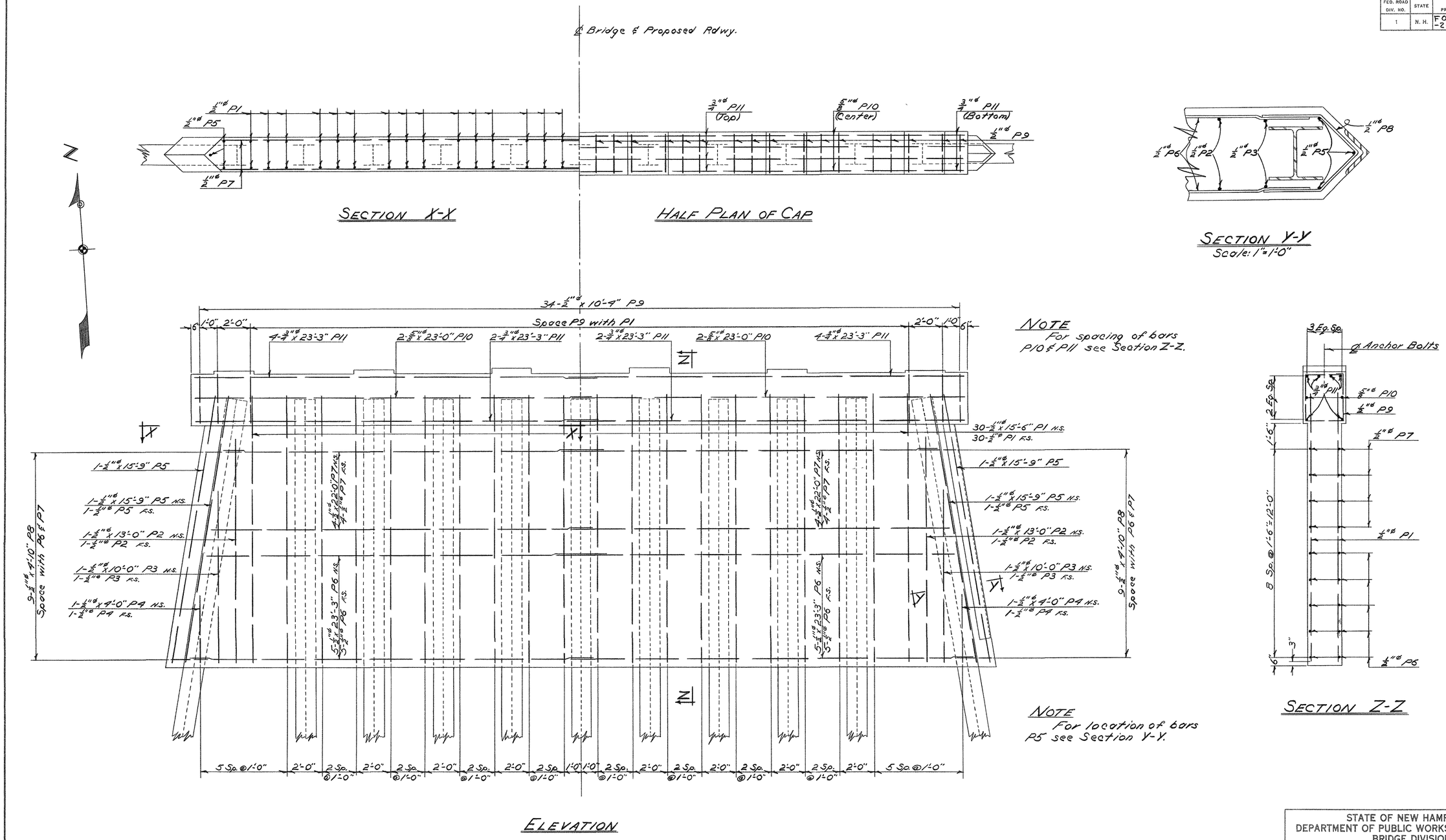
PIER - MASONRY DETAILS

	BY	DATE		BY	DATE	
DESIGNED	RAB	2-60	CHECKED	AJL	2-60	BRIDGE SHEET NO. 7 OF 16
DRAWN	RAB	2-60	CHECKED	AJL	5-60	
TRACED			CHECKED			FILE NUMBER 3-7-2-6
QUANTITIES	RAB	3-60	CHECKED	RAM	5-60	

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	17	127

PRINTED BY SPAULDING-MOSS CO. BOSTON MASS.

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	18	127



Sheet Scale: 3/8"=1'-0" (Except as noted)

△	DESCRIPTION	BY	DATE

REVISIONS

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN BARTLETT BRIDGE NO. 241/137
FEDERAL PROJECT CONWAY-BARTLETT F-027-2(7) STATE PROJECT P-3897
ROUTE NO. US 302 RELOC. OVER EAST BRANCH SACO RIVER
LOCATION N.Y.N.H.R. LOWER BARTLETT

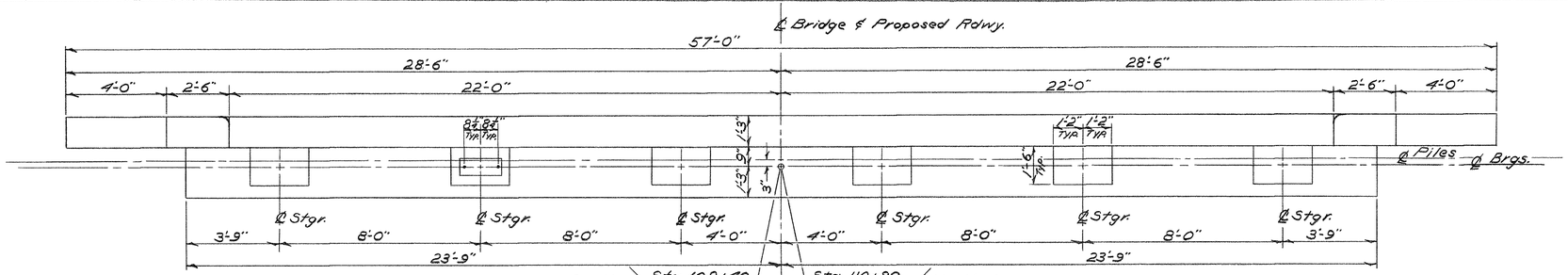
PIER REINFORCING

	BY	DATE		BY	DATE	BRIDGE SHEET NO.
DESIGNED	RAG	2-60	CHECKED	AVL	2-60	8 OF 16
DRAWN	RAB	2-60	CHECKED	AVL	5-60	
TRACED			CHECKED			FILE NUMBER
QUANTITIES	RAB	3-60	CHECKED	AVL	5-60	3-7-2-6

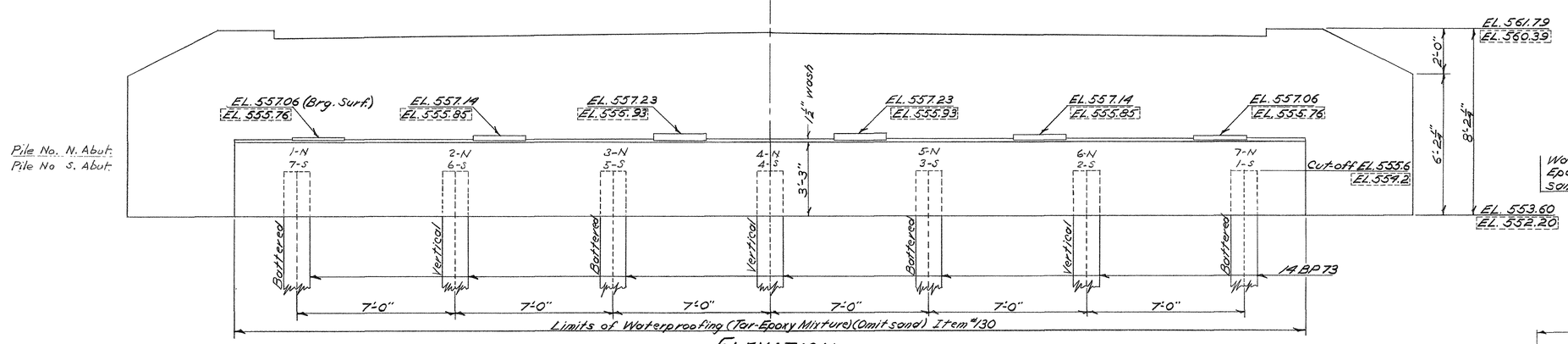
PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2 (7)	18	127

PRINTED BY SPAULDING-MOSS CO. BOSTON MASS

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	19	127

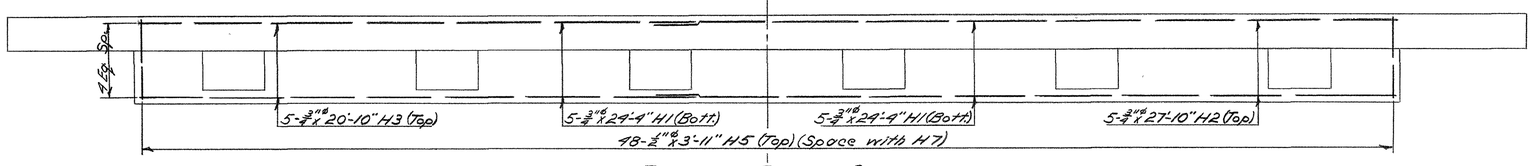


PLAN

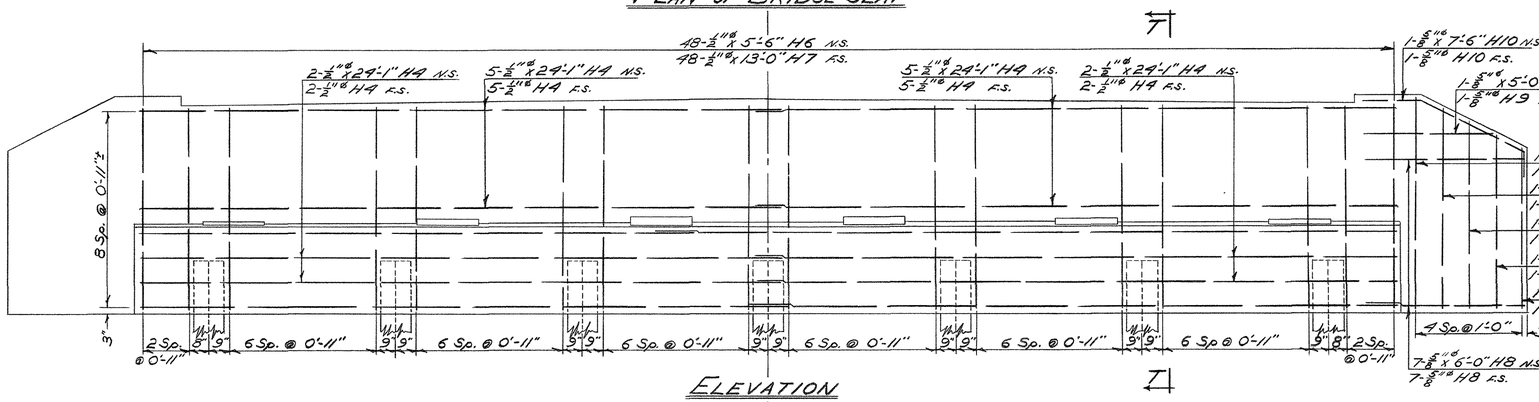


ELEVATION

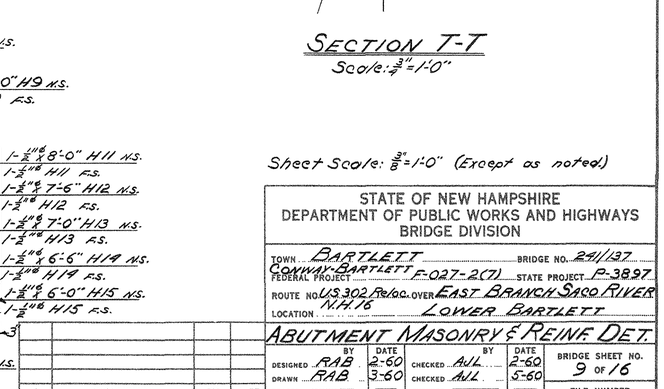
North Abut. shown, South Abut. is similar.
Figures shown in [ ] are for South Abutment.



PLAN OF BRIDGE SEAT



ELEVATION



PILE NOTES

It is suggested that piles be driven with a McKiernan-Terry #10B3 hammer or equal.

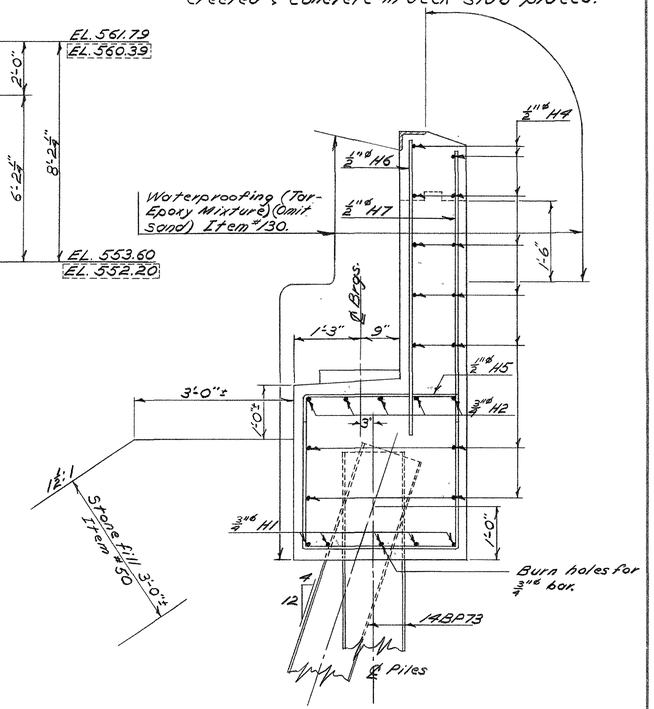
Piles to be driven to refusal or as directed by the Engineer.

Design load on piles - 50 tons.

Estimated length of piles both No. & So. Abutments - 65'.

NOTE

Backwall to be left at least one foot low until end dam steel has been erected & concrete in deck slab placed.



SECTION T-T

Scale: ¾" = 1'-0"

Sheet Scale: ⅜" = 1'-0" (Except as noted)

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN BARTLETT BRIDGE NO. 241/137
FEDERAL PROJECT COWAN-BARTLETT F-027-2(7) STATE PROJECT P-38.97
ROUTE NO. U.S. 302 Rte/Loc. N.H. 16 OVER EAST BRANCH SACO RIVER
LOCATION LOWER BARTLETT

ABUTMENT MASONRY & REINF. DET.

	BY	DATE		BY	DATE
DESIGNED	RAB	2-60	CHECKED	AJL	2-60
DRAWN	RAB	3-60	CHECKED	AJL	5-60
TRACED			CHECKED		
QUANTITIES	RAB	3-60	CHECKED	RAM/AJL	5-60

BRIDGE SHEET NO. 9 OF 16

FILE NUMBER 3-7-2-6

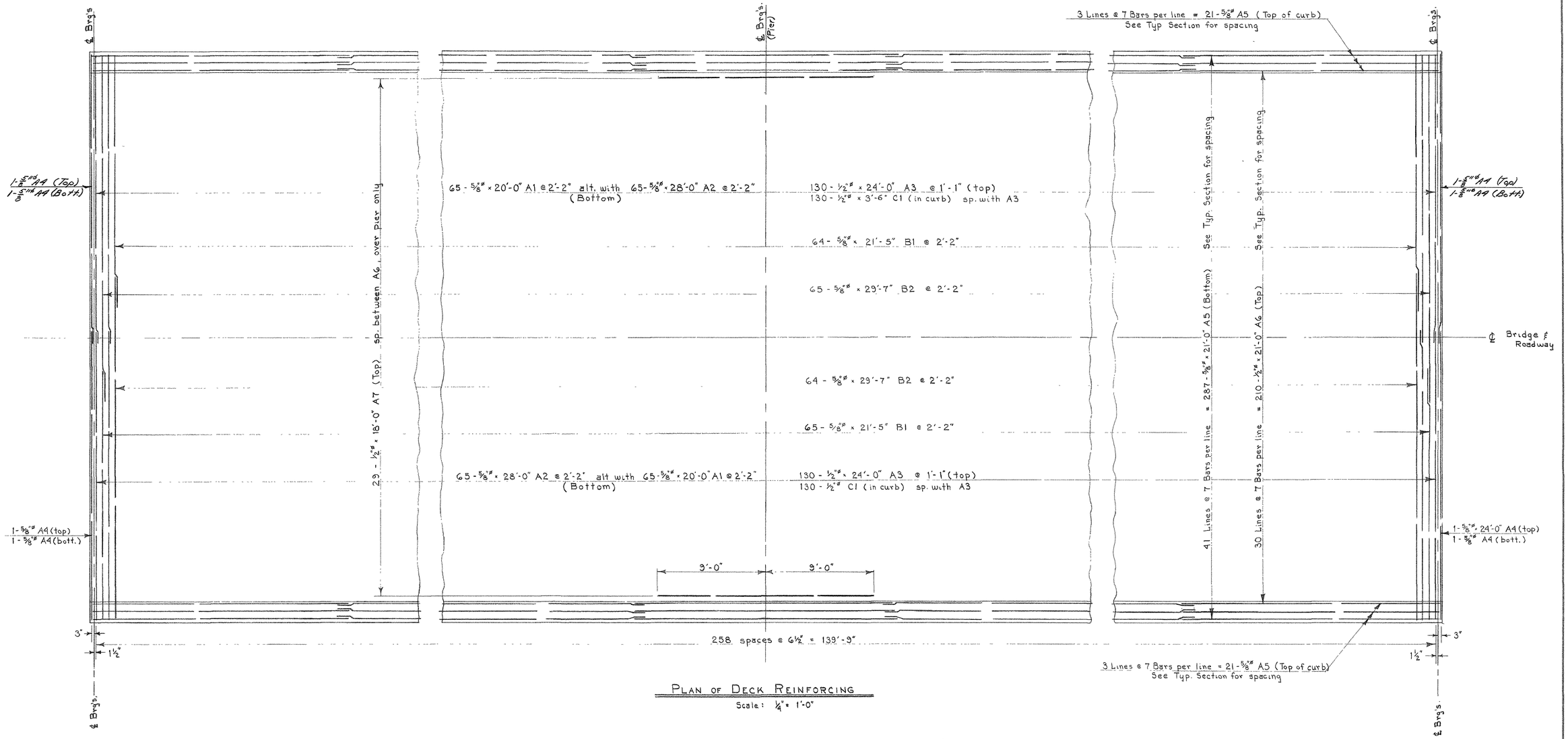
△	DESCRIPTION	BY	DATE

REVISIONS

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2 (7)	19	127

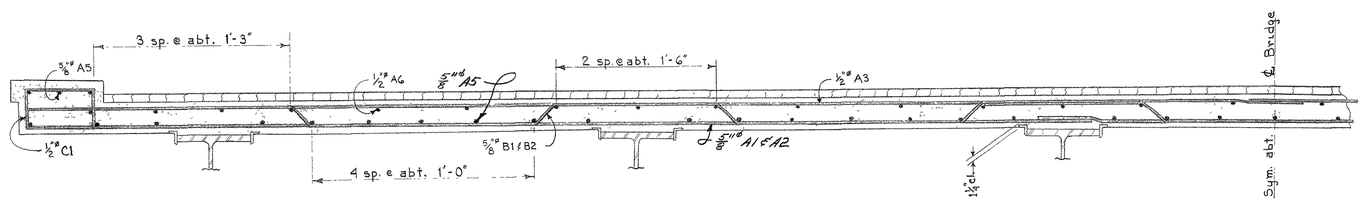
PRINTED BY SAULSBURY-MOSS CO. BOSTON, MASS.

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	20	127



Plan of Deck Reinforcing

Scale: 1/4" = 1'-0"



Typical Transverse Section

Scale: 3/4" = 1'-0"

△	DESCRIPTION	BY	DATE

REVISIONS

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN Bartlett (Conway-Bartlett) BRIDGE NO. 241/137
FEDERAL PROJECT US 302 F027-2(7) STATE PROJECT P-3897
ROUTE NO. N.H. 16 Relocation OVER East Branch Saco River
LOCATION Lower Bartlett

Deck Reinforcing

	BY	DATE		BY	DATE
DESIGNED	A.J.L.	11-59	CHECKED	J.B.R.	3-60
DRAWN	J.B.R.	3-60	CHECKED	AJL	5-60
TRACED			CHECKED		
QUANTITIES	AJL	5-60	CHECKED	RAB	5-60

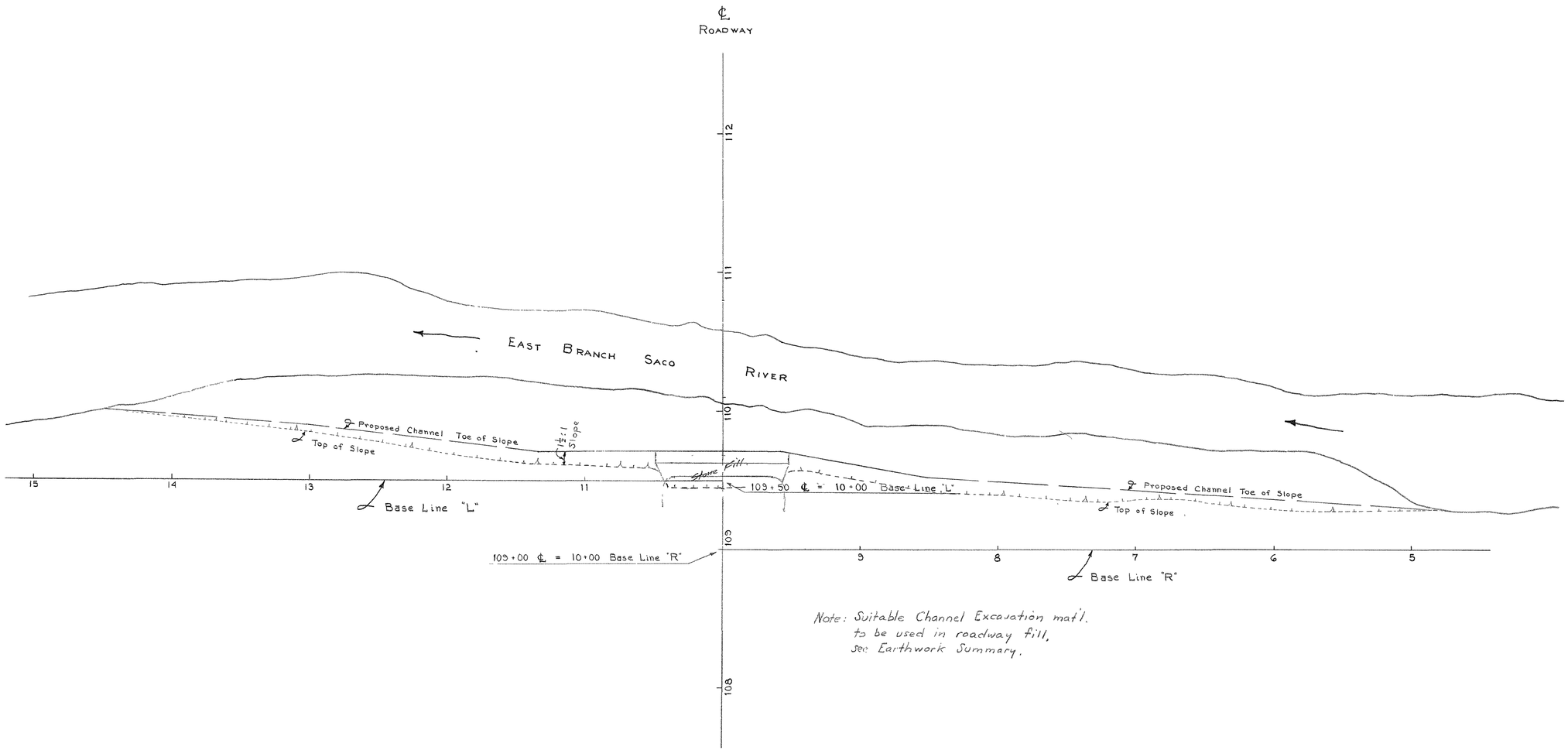
BRIDGE SHEET NO. 10 OF 16

FILE NUMBER 3-7-2-6

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2 (7)	20	127

PRINTED BY SMALLDRIDGE MOSS CO. BOSTON MASS.

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	21	127



Note: Suitable Channel Excavation mat'l. to be used in roadway fill, see Earthwork Summary.

Layout for Channel Widening

Scale: 1" = 40'

△	DESCRIPTION	BY	DATE

REVISIONS

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN Bartlett BRIDGE NO. 241/137
FEDERAL PROJECT (Conway-Bartlett) F027-2(7) STATE PROJECT P-3897
ROUTE NO. NH 16 US 302 RELOC. OVER East Branch Saco River
LOCATION Lower Bartlett

Channel Widening

	BY	DATE		BY	DATE
DESIGNED			CHECKED		
DRAWN	J.B.R.	2-60	CHECKED	RAB	5-60
TRACED	—	—	CHECKED	—	—
QUANTITIES			CHECKED		

BRIDGE SHEET NO. 11 OF 16

FILE NUMBER 3-7-2-6

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2 (7)	21	127

PRINTED BY SPAULDING-MOSS CO. BOSTON MASS.

FED. ROAD DIV. NO.	STATE	F.A.P. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	F027-2(7)	'61	27	127

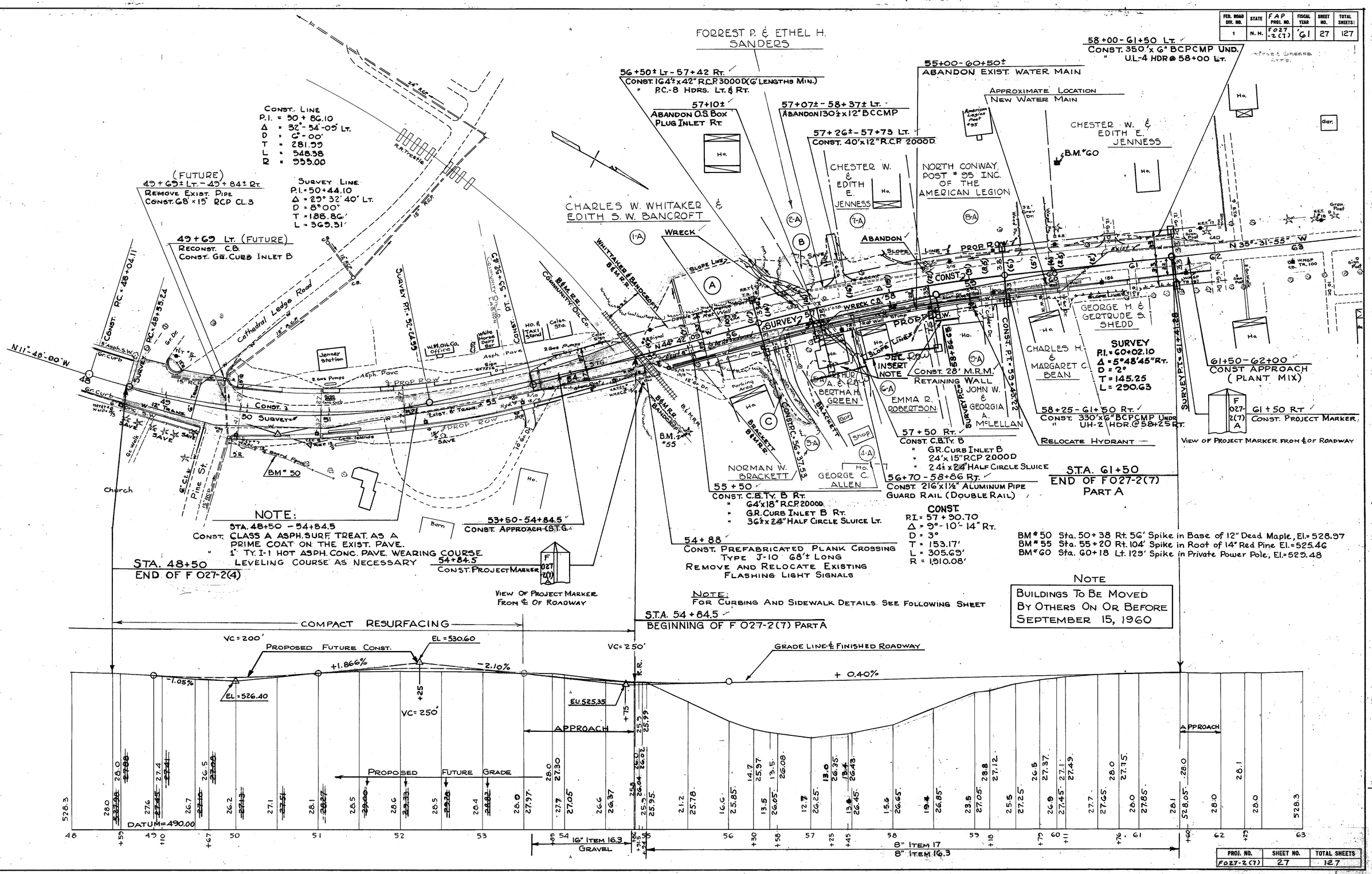
NOTE: BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.	
" "	" "	
" "	" "	
" " "Loose Leaf"	" "	
" " 5687	" "	
BOOK NO. 5813	PAGE NO.	

REVISIONS AFTER PROPOSAL

DATE	STA. TO STA.	DESCRIPTION
12-5-61	ROW Verified EB Rights 4-25-62 Bounds Plotted by Bruner	

		DATE
PLAN TRACED BY	BUGBEE	9-4-59
" CHECKED "	KLUN	" 9-9-59
PROFILE TRACED BY	KLUN	" 9-21-59
" CHECKED "	CONNOR	" 6-21-60
INKED BY	ANDERSON	" 6-17-60
CHECKED BY		

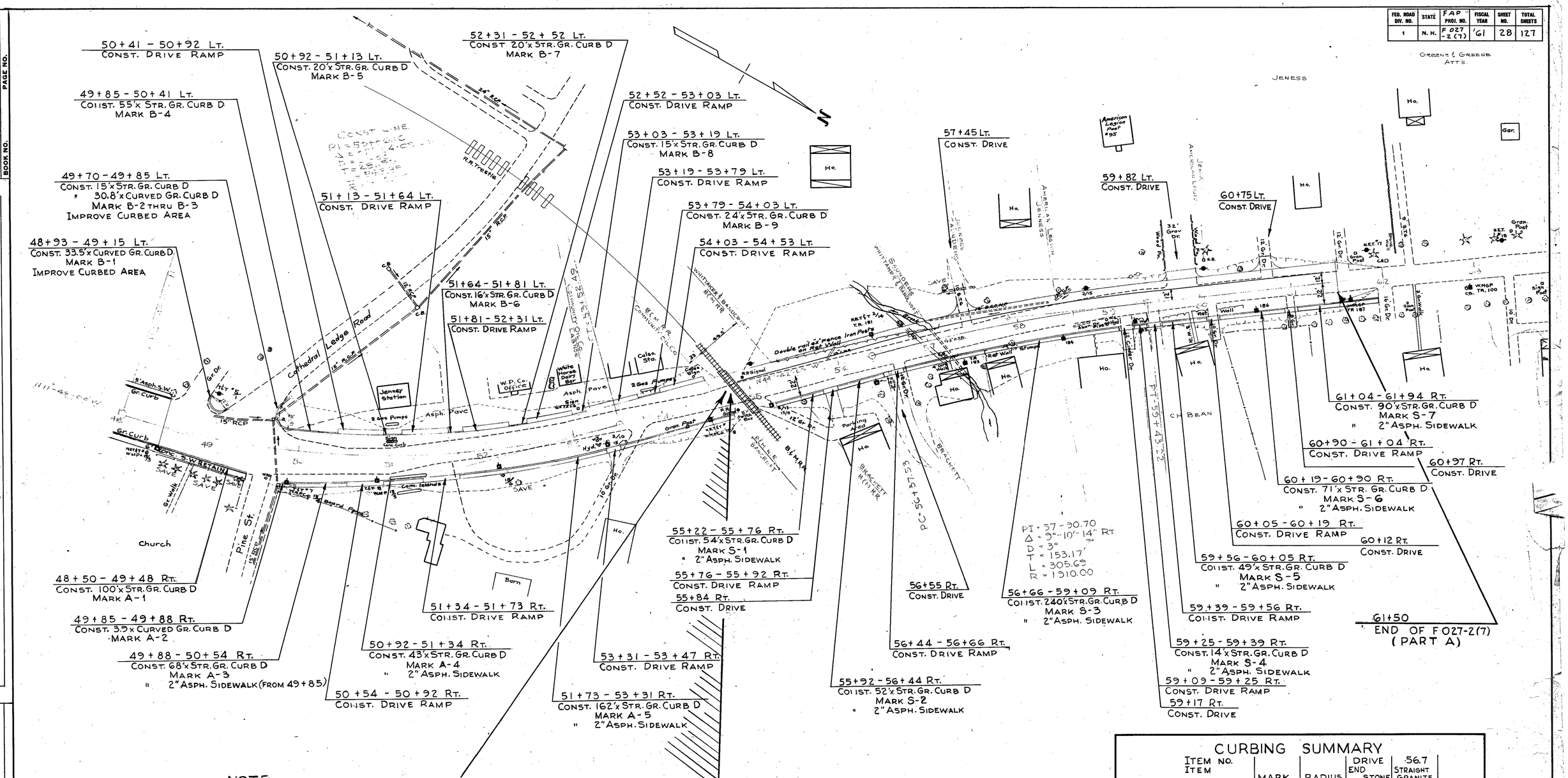


PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	27	127

1500-8-58 MODERN BLUE PRINT CO. 23230

FED. ROAD DIV. NO.	STATE	F.A.P. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F 027-2 (7)	'61	28	127

GREENE & GREENE ATT'S.



NOTE:
WORK SHOWN IN COMPACT SECTION ~~(48+50 - 54+84.5)~~ (FUTURE WORK)
~~(SEE PRECEDING SHEET)~~
(NOT A PART OF THIS CONTRACT)

IT IS INTENDED THAT THE EXIST. PAVE. IN THIS AREA BE RESURFACED WITH 1" TYPE I-1 AS A PORTION OF THIS CONTRACT.

STA. 54+84.5
BEGINNING OF F 027-2(7) (PART A)
END OF COMPACT

DETAIL OF CURBING & DRIVES

CURBING SUMMARY

ITEM NO. / ITEM / UNIT / LOCATION		MARK	RADIUS	DRIVE END STONE LT EA.	DRIVE END STONE RT EA.	56.7 STRAIGHT GRANITE CURB D LIN. FT.
PART A						
55+22 - 55+76	R	S-1		-	1	54
55+92 - 56+44	"	S-2		1	1	52
56+66 - 59+09	"	S-3		1	1	240
59+25 - 59+39	"	S-4		1	1	14
59+56 - 60+05	"	S-5		1	1	49
60+19 - 60+90	"	S-6		1	1	71
61+04 - 61+94	"	S-7		1	-	90
SUB TOTAL				6	6	570
ESTIMATED TOTAL PART A						5 575

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	28	127

NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.
"	"
"	"
"	"
"	"
"	"
"	"

REVISIONS AFTER PROPOSAL

DATE	STA. TO STA.	DESCRIPTION

PLAN TRACED BY	B. LOBEE
" CHECKED "	
PROFILE TRACED BY	
" CHECKED "	
INKED BY	
CHECKED BY	

DATE 9-4-59

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	F027-2(7)	'61	29	127

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	29	127

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F.A. 027-2(7)	61	30	127

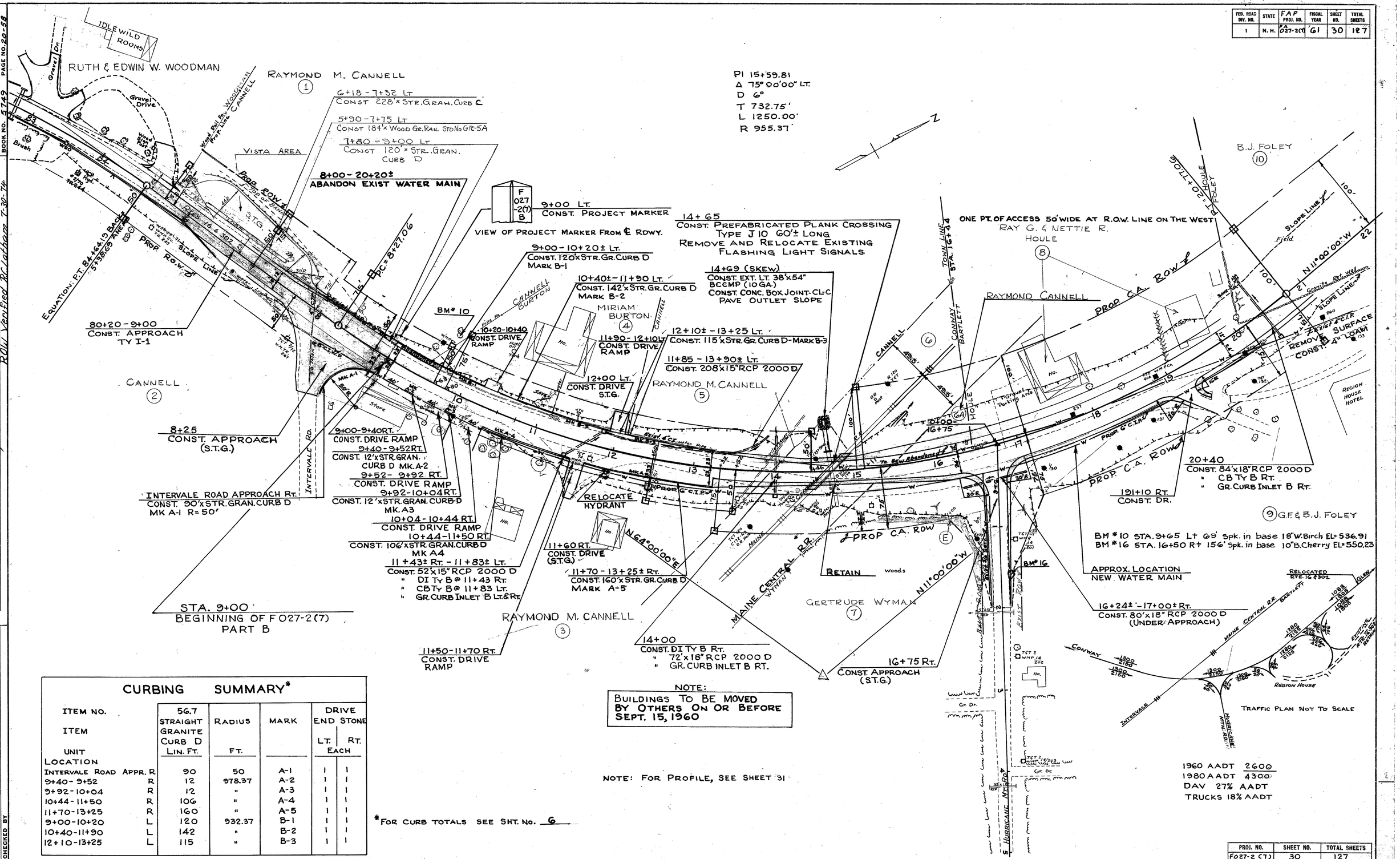
NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	5627	PAGE NO.
" "	6002	" " 60-62
" "	5806	" " 42-45
" "	5810	" "
BOOK NO.	5749	PAGE NO. 20-58

REVISIONS AFTER PROPOSAL

DATE	STA.	TO STA.	DESCRIPTION
5-8-61	5+80	7+80 Lt.	Vista Area Improvement
12-5-61	Bounds Plotted by Bruner		

		DATE
PLAN TRACED BY	Connor	11-30-59
" CHECKED "	Klun	" 12-5-59
PROFILE TRACED BY		"
" CHECKED "		"
INKED BY	Anderson	7-25-60
CHECKED BY		



CURBING SUMMARY*

ITEM NO.		56.7			DRIVE END STONE	
ITEM		STRAIGHT GRANITE CURB D	RADIUS	MARK	LT.	RT.
UNIT		LIN. FT.	FT.		EACH	
LOCATION						
INTERVALE ROAD APPR.	R	90	50	A-1	1	1
9+40 - 9+52	R	12	978.37	A-2	1	1
9+92 - 10+04	R	12	"	A-3	1	1
10+44 - 11+50	R	106	"	A-4	1	1
11+70 - 13+25	R	160	"	A-5	1	1
9+00 - 10+20	L	120	932.37	B-1	1	1
10+40 - 11+90	L	142	"	B-2	1	1
12+10 - 13+25	L	115	"	B-3	1	1

*FOR CURB TOTALS SEE SHT. No. 6

NOTE:
BUILDINGS TO BE MOVED BY OTHERS ON OR BEFORE SEPT. 15, 1960

NOTE: FOR PROFILE, SEE SHEET 31

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	30	127

1500-8-58 MODERN BLUE PRINT CO. 23230

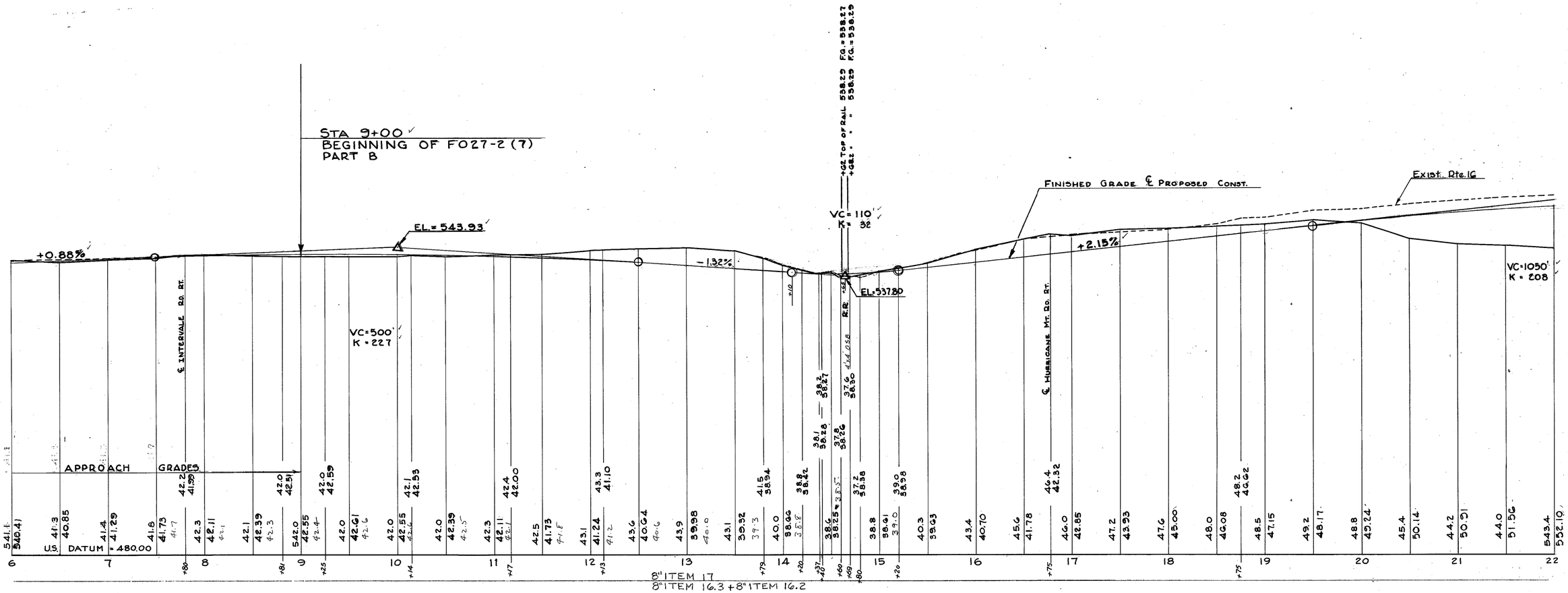
FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	31	127

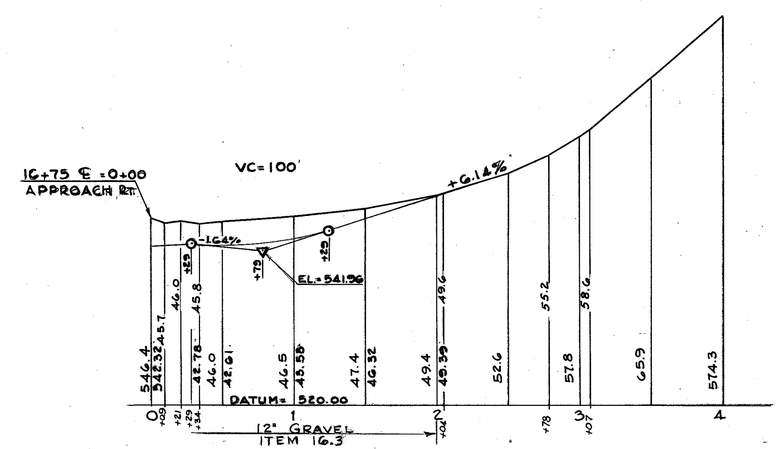
NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.	BOOK NO.	PAGE NO.
" "	" "	" "	" "
" "	" "	" "	" "
" "	" "	" "	" "

REVISIONS AFTER PROPOSAL

DATE	STA.	TO STA.	DESCRIPTION





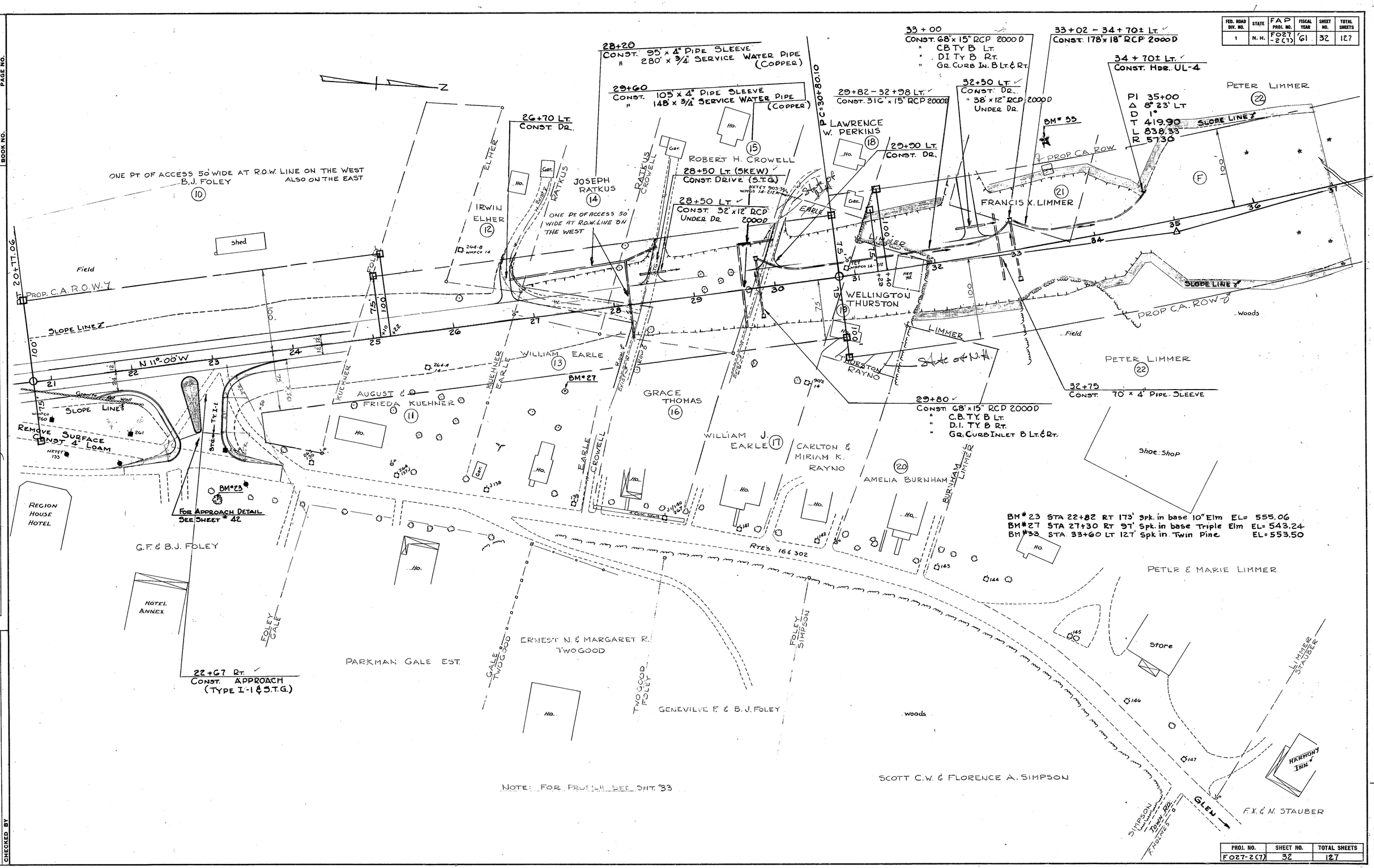
PROFILE HURRICANE MT. RD.
16+75 RT.

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	31	127

		DATE
PLAN TRACED BY		"
" CHECKED "		"
PROFILE TRACED BY	CONNOR	12-9-59
" CHECKED "		
INKED BY		
CHECKED BY		

1500-8-58 MODERN BLUE PRINT CO. 33230

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027 -2(7)	'61	32	127



PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	32	127

NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.
" "	" "
" "	" "
" "	" "
" "	" "
" "	" "
" "	" "
BOOK NO.	PAGE NO.

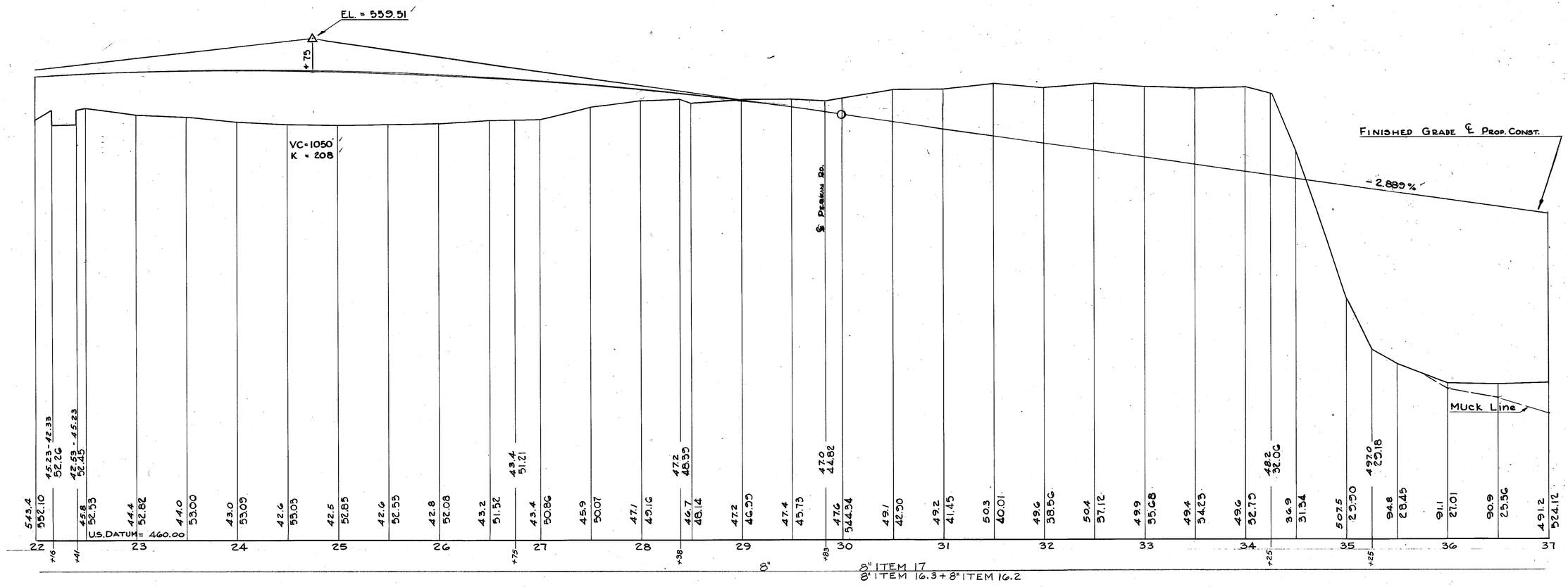
REVISIONS AFTER PROPOSAL

DATE	STA.	TO STA.	DESCRIPTION
12-5-61			ROW Varied per Plotted by Bruhar

PLAN TRACED BY	CONNOR	DATE 12-1-59
" CHECKED "		"
PROFILE TRACED BY		"
" CHECKED "		"
INKED BY	KNOWLES	" 7-25-60
CHECKED BY		

1500-8-58 , MODERN BLUE PRINT CO. 23230

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	33	127



PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	33	127

NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.
" "	" "
" "	" "
" "	" "
" "	" "
" "	" "
BOOK NO.	PAGE NO.

REVISIONS AFTER PROPOSAL

DATE	STA.	TO STA.	DESCRIPTION

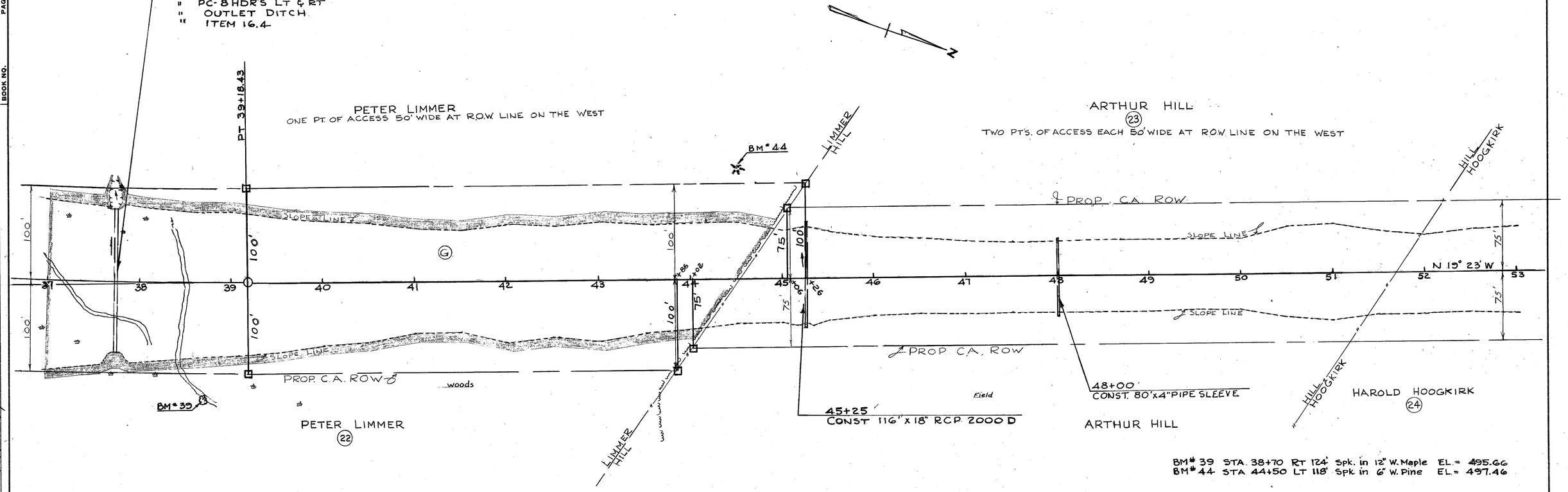
		DATE
PLAN TRACED BY		"
" CHECKED "		"
PROFILE TRACED BY	CONNOR	"12-10-59
" CHECKED "		
INKED BY		
CHECKED BY		

1500-8-58 MODERN BLUE PRINT CO. 22230

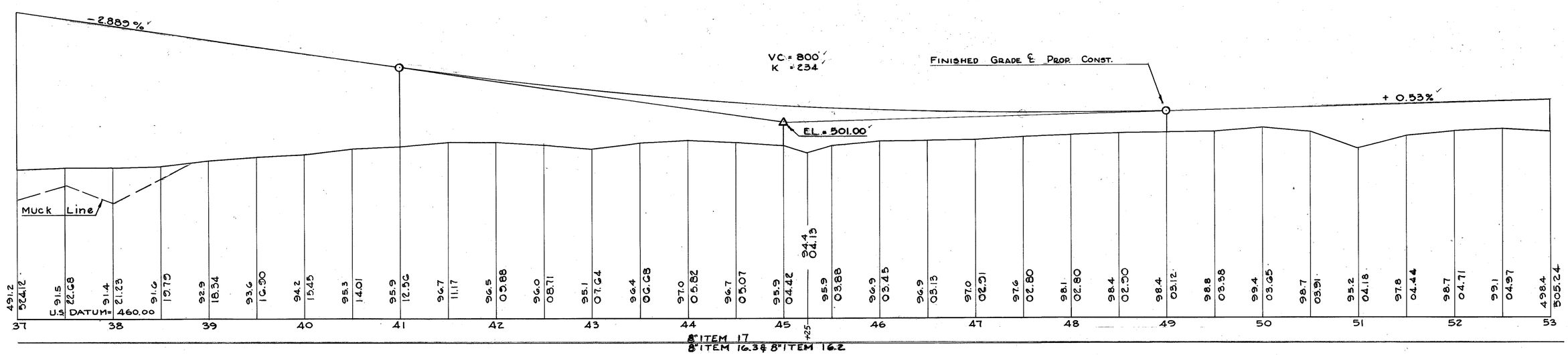
MAINE CENTRAL R.R.

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	34	127

37+75 (MIN 6' LENGTHS)
CONST 151' x 72" RCP 4000 D
" PC-8 HDR'S LT & RT
" OUTLET DITCH
" ITEM 16.4



BM # 39 STA. 38+70 RT 124' Spk. in 12" W. Maple EL. = 495.66
BM # 44 STA 44+50 LT 118' Spk in 6' W. Pine EL. = 497.46



PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	34	127

NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.
" "	" "
" "	" "
" "	" "
" "	" "
" "	" "
BOOK NO.	PAGE NO.

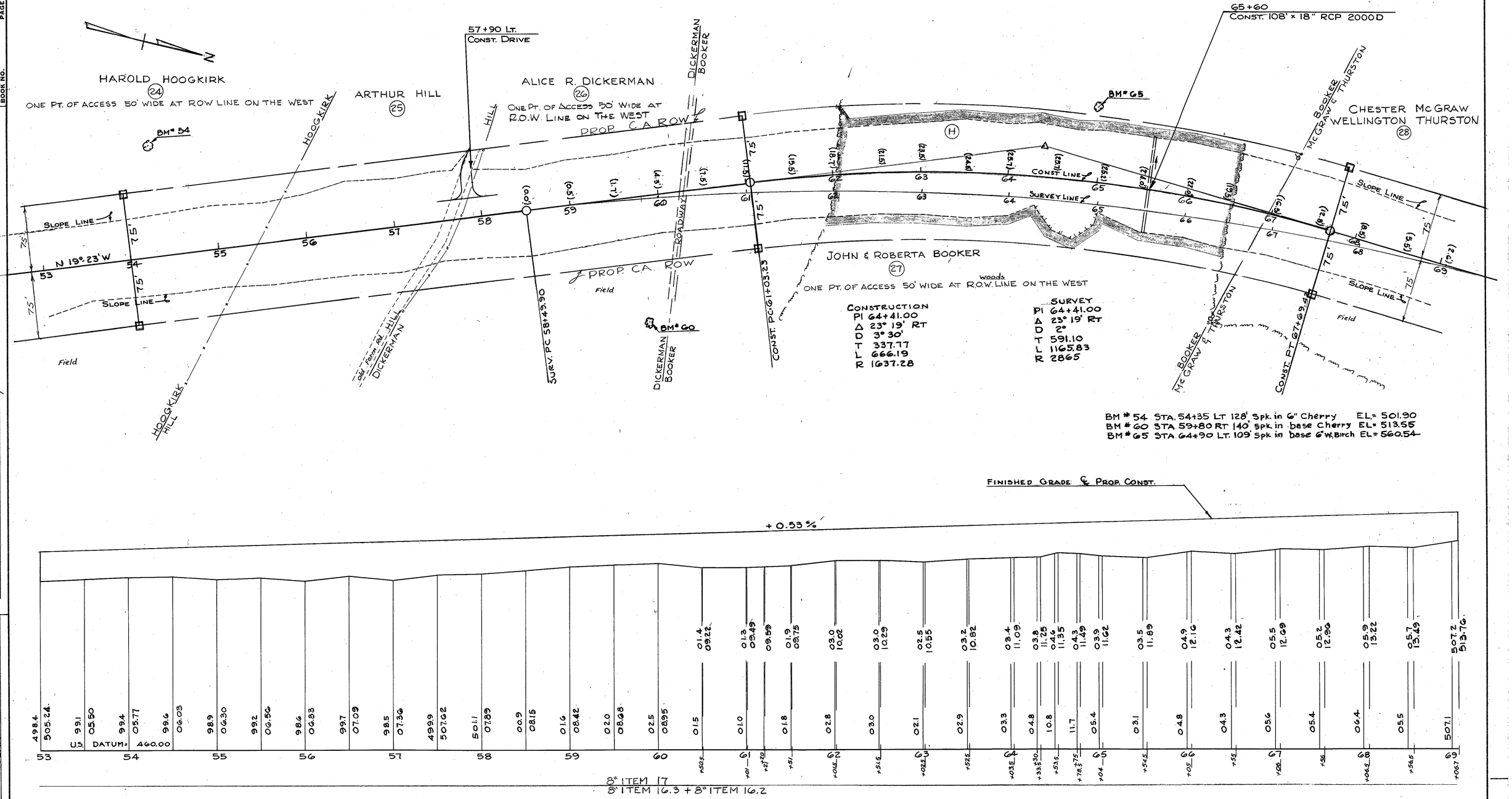
REVISIONS AFTER PROPOSAL

DATE	STA. TO STA.	DESCRIPTION
12-5-61		ROW Verified TC Lathan 1-25-62 Bounds Plotted by Bruner

PLAN TRACED BY	CONNOR	DATE 12-1-59
" CHECKED "		"
PROFILE TRACED BY	CONNOR	" 12-10-59
" CHECKED "		
INKED BY		
CHECKED BY		

1500-8-58 MODERN BLUE PRINT CO. 33250

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027 -2(7)	'61	35	127



NOTE BOOKS (USE BOTTOM LINES F(IRST))

BOOK NO.	PAGE NO.
" "	" "
" "	" "
" "	" "
" "	" "
" "	" "
" "	" "
BOOK NO.	PAGE NO.

REVISIONS AFTER PROPOSAL

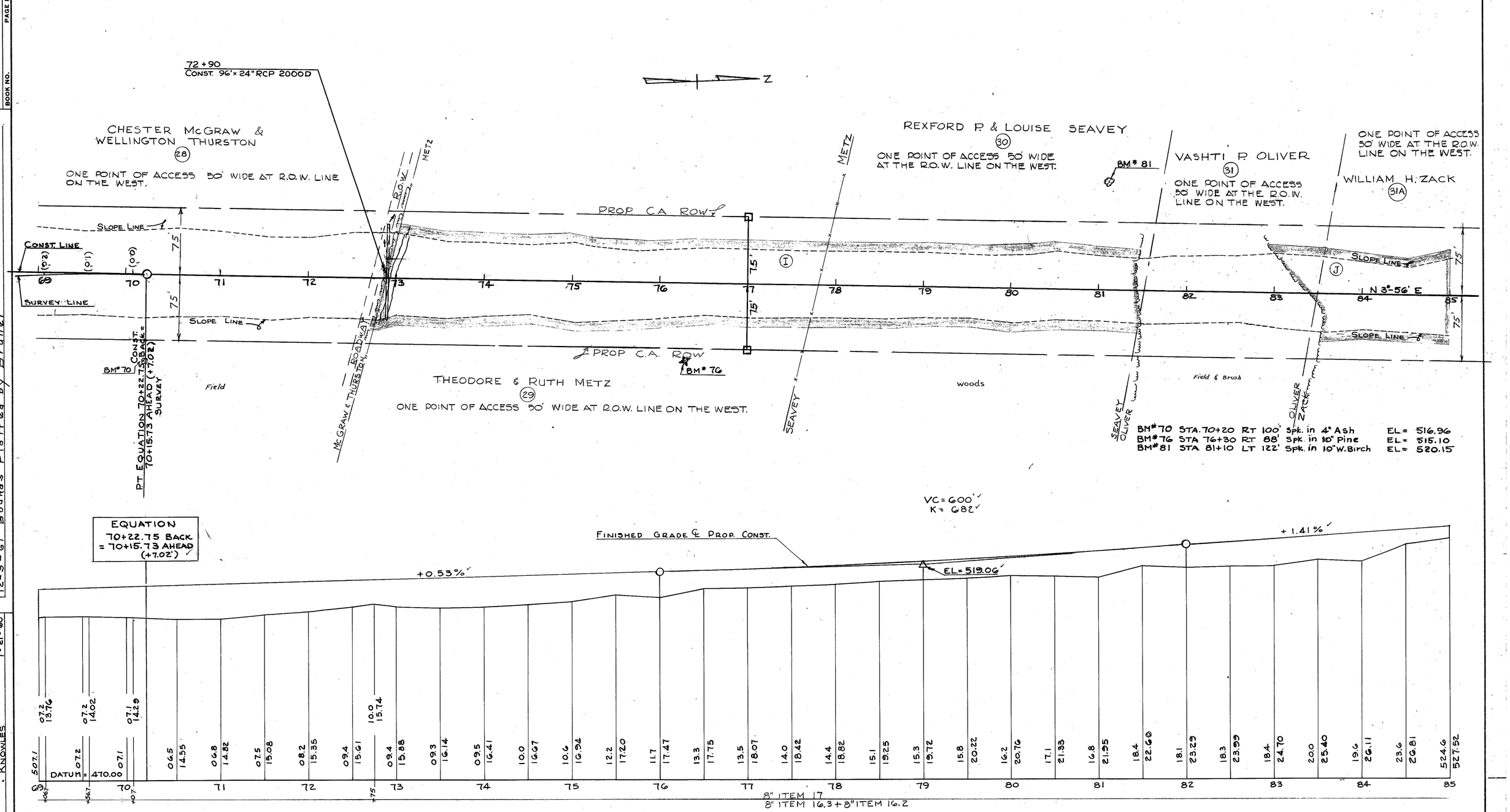
DATE	STA.	TO STA.	DESCRIPTION
12-5-61			Row revised & Bounds Plotted by Bruner

PLAN TRACED BY	CONNOR	DATE 12-1-59
" CHECKED "		"
PROFILE TRACED BY	CONNOR	" 12-10-59
" CHECKED "		
INKED BY	HOGAN	7-25-60
CHECKED BY		

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	35	127

1500-8-58 MODERN BLUE PRINT CO. 23230

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	36	127



PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	36	127

NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.	BOOK NO.	PAGE NO.
" "	" "	" "	" "
" "	" "	" "	" "
" "	" "	" "	" "

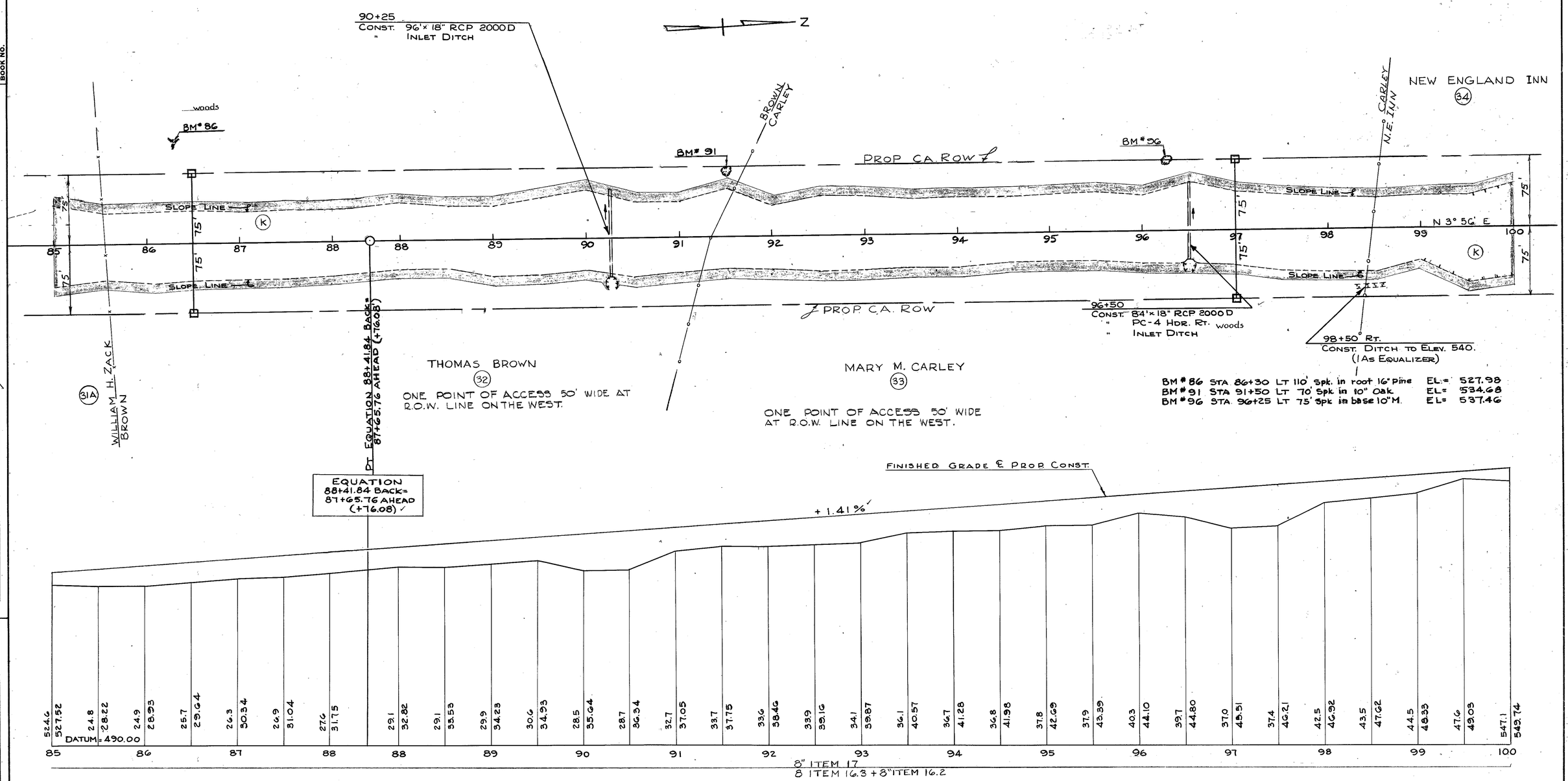
REVISIONS AFTER PROPOSAL

DATE	STA. TO STA.	DESCRIPTION
12-5-61	Row verified & Bounds Plotted by Bruner	

		DATE
PLAN TRACED BY	CONNOR	12-2-59
" CHECKED "		"
PROFILE TRACED BY	CONNOR	12-10-59
" CHECKED "		
INKED BY	KNOWLES	7-21-60
CHECKED BY		

1500-8-58 MODERN BLUE PRINT CO. 23230

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027 -2(7)	'61	37	127



NOTE BOOKS
(USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.
" "	" "
" "	" "
" "	" "
" "	" "
" "	" "
BOOK NO.	PAGE NO.

REVISIONS AFTER PROPOSAL

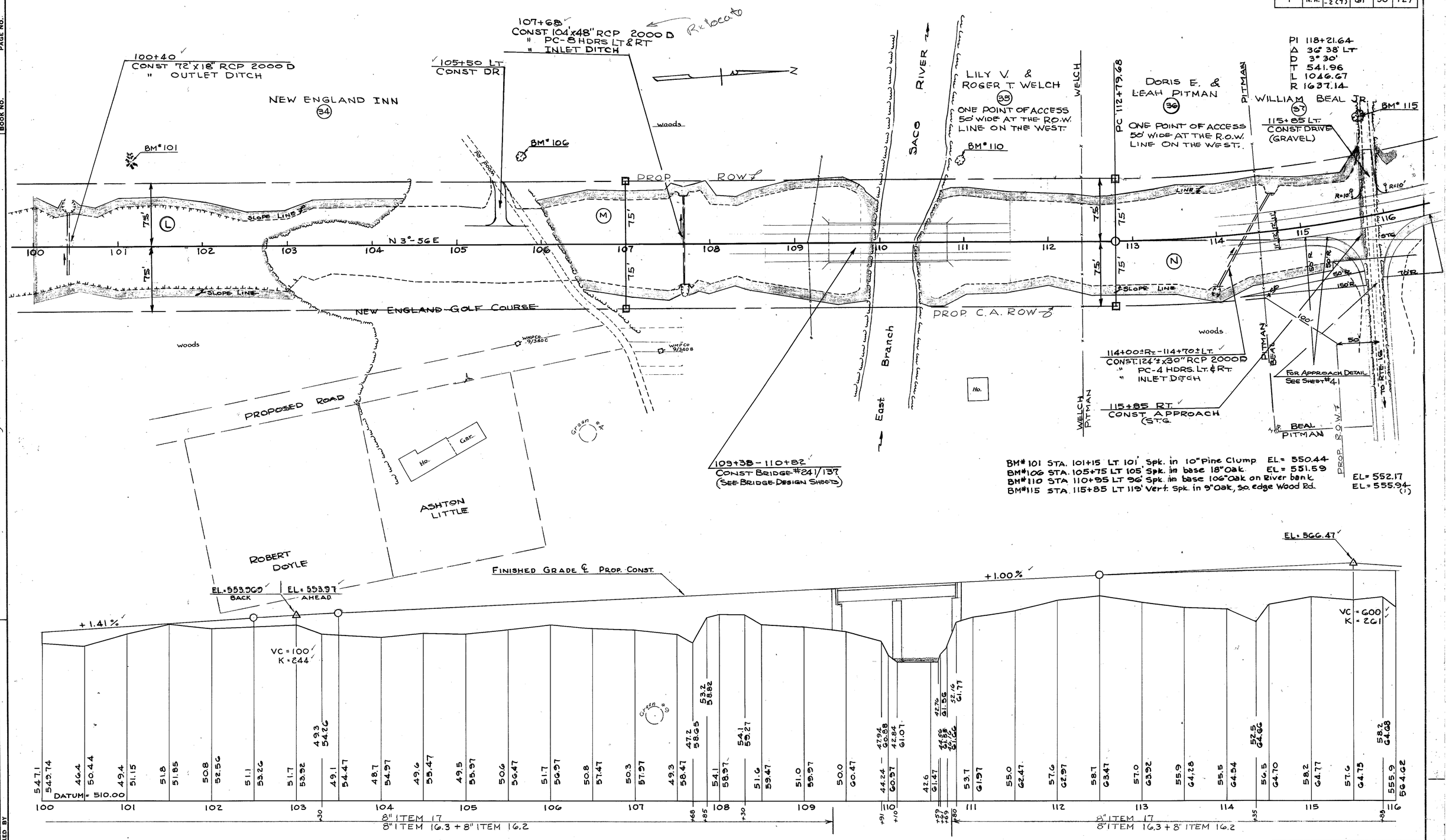
DATE	STA. TO STA.	DESCRIPTION
12-5-61	ROW revised to 68 Rods 4/16/62	Plotted by Bruner

PLAN TRACED BY	CONNOR	DATE 12-2-59
" CHECKED "		"
PROFILE TRACED BY	CONNOR	12-11-59
" CHECKED "		
INKED BY	KNOWLES	7-21-60
CHECKED BY		

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	37	127

1500-8-56 MODERN BLUE PRINT CO. 23230

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	38	127



PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	38	127

REVISIONS AFTER PROPOSAL

DATE	STA.	TO	STA.	DESCRIPTION
12-5-61				R/W Verified & Bounds Plotted by Bruner

(USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.
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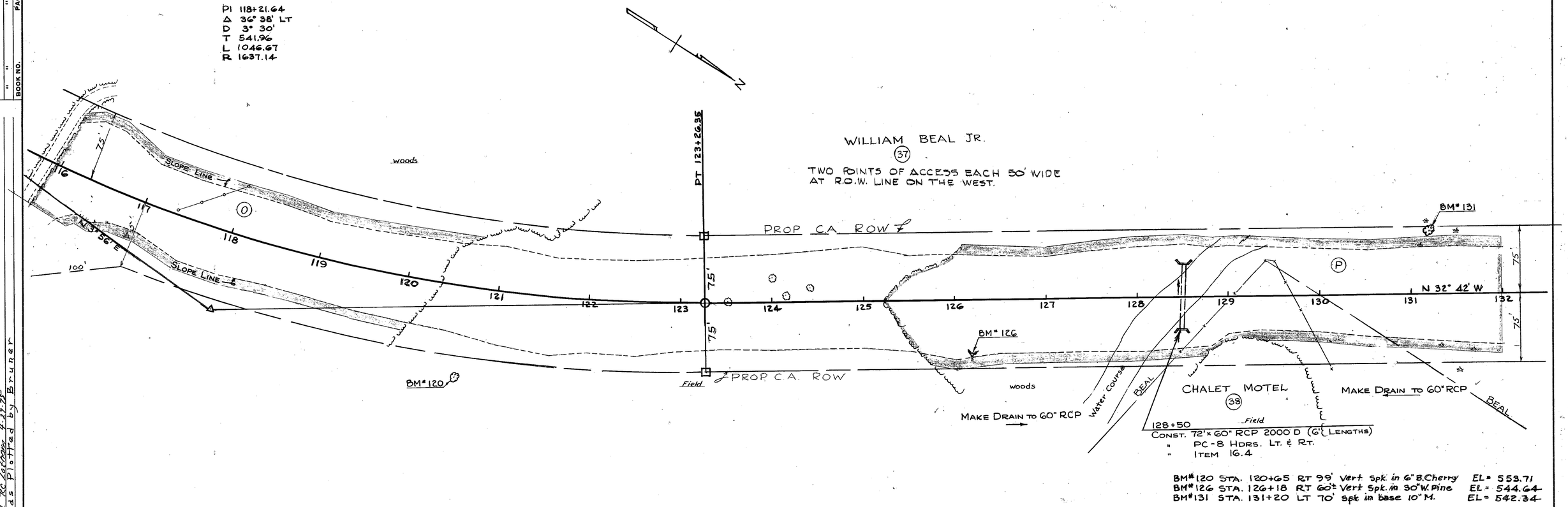
BOOK NO.	PAGE NO.

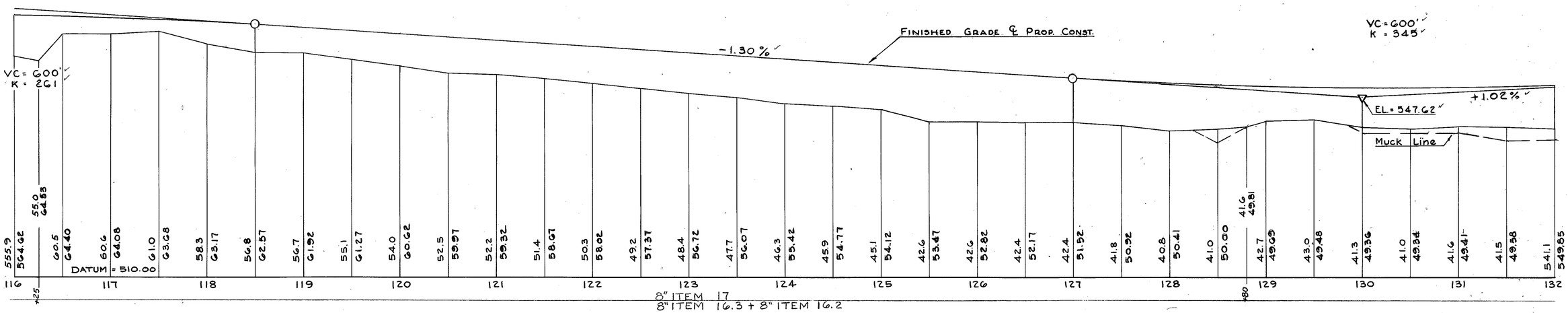
		DATE
PLAN TRACED BY	CONNOR	DATE 12-2-59
" CHECKED "		"
PROFILE TRACED BY	CONNOR	" 12-11-59
" CHECKED "		
INKED BY	KNOWLES	7-21-60
CHECKED BY		

1500-8-58 MODERN BLUE PRINT CO. 21230

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	39	127

PI 118+21.64
Δ 36° 38' LT
D 3° 30'
T 541.96
L 1046.67
R 1637.14





PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	39	127

NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.
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" "	" "

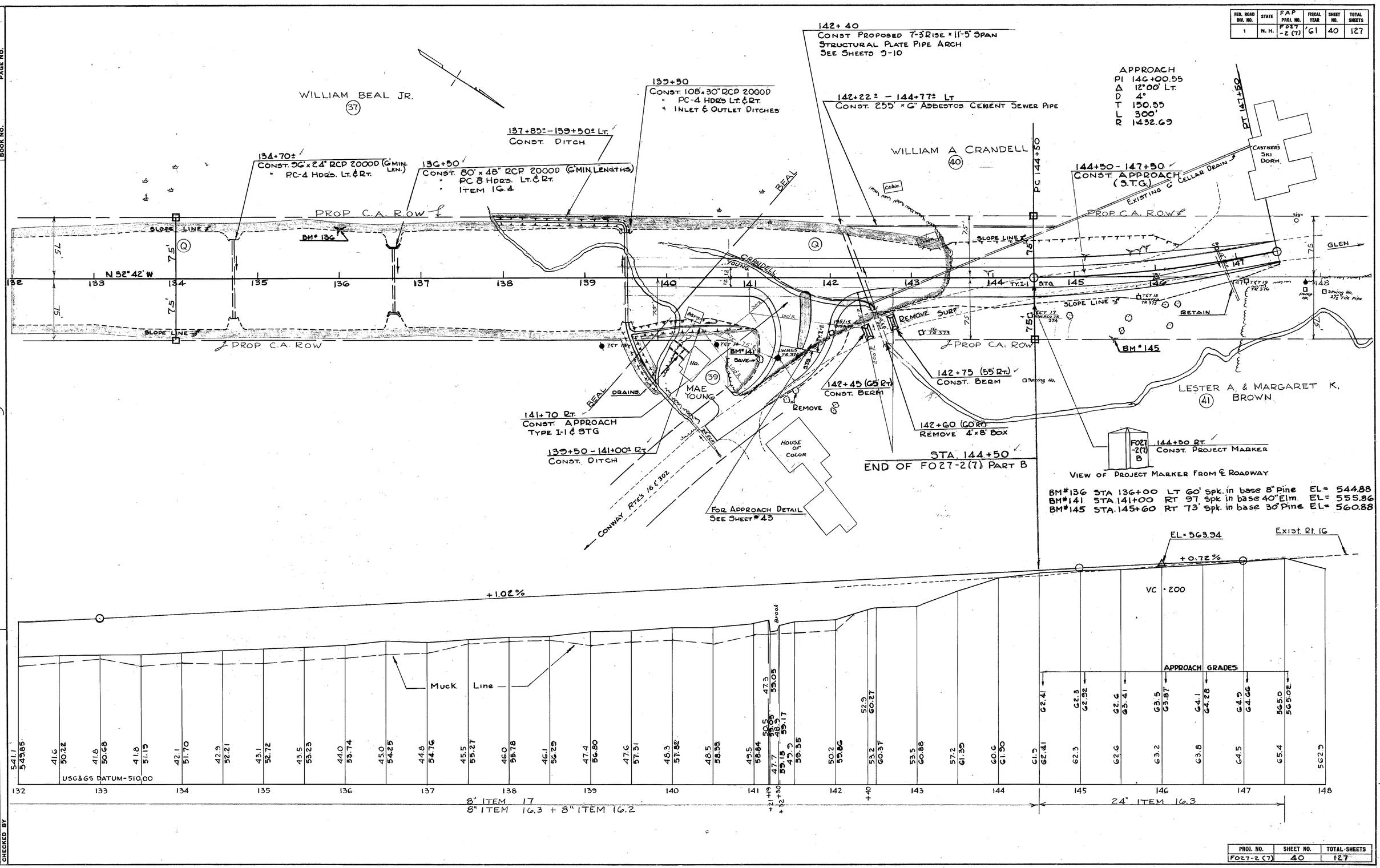
REVISIONS AFTER PROPOSAL

DATE	STA. TO STA.	DESCRIPTION
		Roll Vertical RC Letdown 4-18-75
		12-5-61 Bounds Plotted by Bruner

PLAN TRACED BY	CONNOR	DATE 12-2-59
" CHECKED "		"
PROFILE TRACED BY	CONNOR	" 12-11-59
" CHECKED "		
INKED BY	KNOWLES	" 7-21-60
CHECKED BY		

1500-B-58 MODERN BLUE PRINT CO. 23230

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	40	127



PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	40	127

NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.
" "	" "
" "	" "
" "	" "
" "	" "
BOOK NO.	PAGE NO.

REVISIONS AFTER PROPOSAL

DATE	STA. TO STA.	DESCRIPTION
12-5-61		R/W Verified F.B. Bodies tied in & Bounds Plotted by Bruner

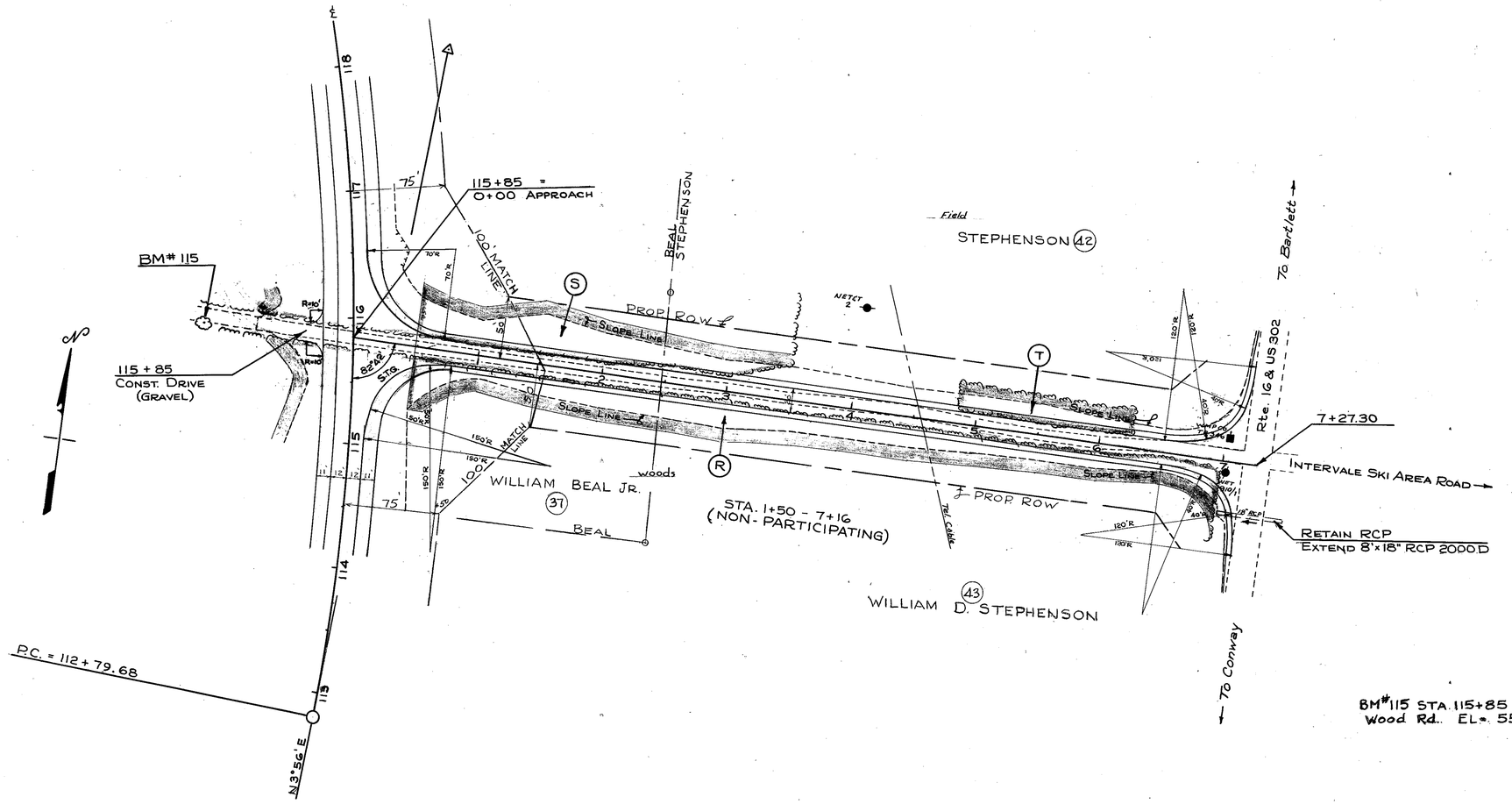
PLAN TRACED BY	CONNOR	DATE 12-2-59
" CHECKED "		"
PROFILE TRACED BY	KLUN	" 1-4-60
" CHECKED "		"
INKED BY	KNOWLES	" 7-26-60
CHECKED BY		

P-3897 CONWAY PARTIAL B

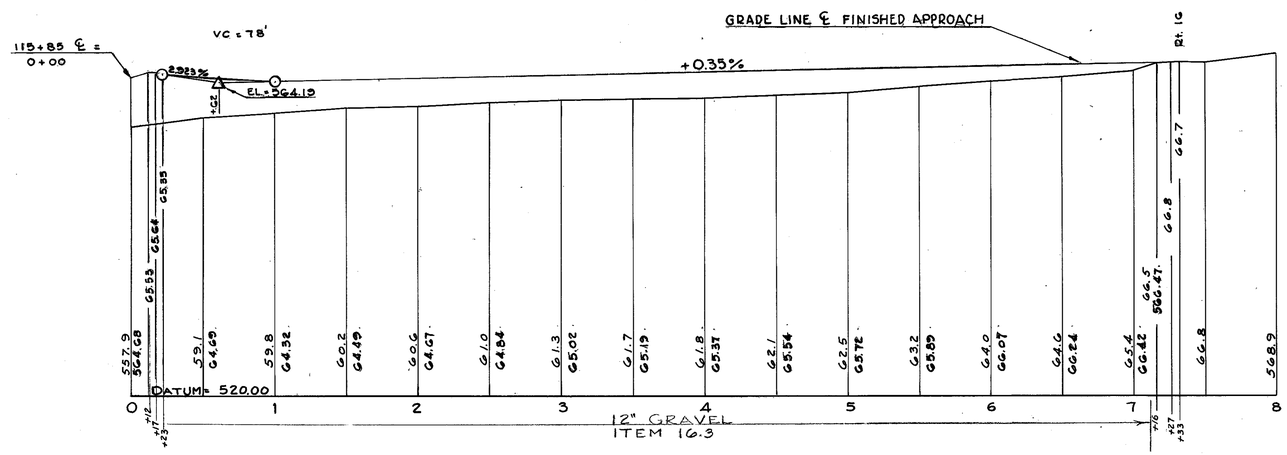
1500-8-58 MODERN BLUE PRINT CO. 23230

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	41	127

P.I. = 118 + 21.64
Δ = 36°-38' Lt.
D = 3°-30'
T = 541.96'
L = 1046.67'
R = 1637.14'



BM# 115 STA. 115+85 LT. 119' Vert. Spk. in 9" Oak So. Edge Wood Rd. EL = 555.94 (1)



APPROACH TO RTE. 16
115+85 RT.
SCALE 1" = 50'
VERT 1" = 10'

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2 (7)	41	127

NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.
" "	" "
" "	" "
" "	" "
" "	" "
" "	" "
BOOK NO.	" "

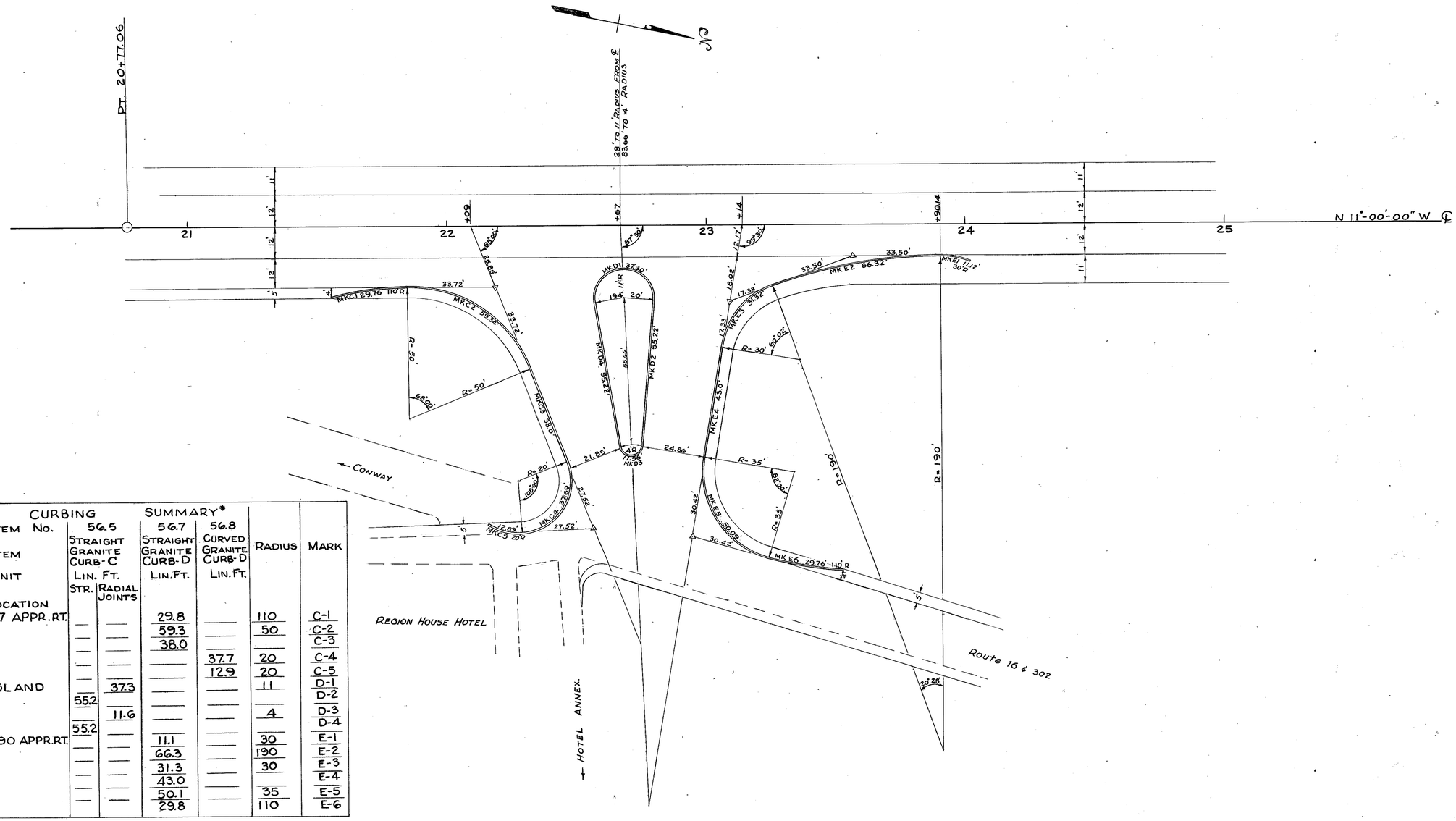
REVISIONS AFTER PROPOSAL

DATE	STA. TO STA.	DESCRIPTION
		ROW verified CR Butler 4-28-26

		DATE
PLAN TRACED BY	CONNOR	12-3-59
" CHECKED "		"
PROFILE TRACED BY	CONNOR	12-3-59
" CHECKED "		"
INKED BY	KNOWLES	7-22-60
CHECKED BY		

1500-8-58 MODERN BLUE PRINT CO. 23330

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F027-2(7)	'61	42	127



CURBING SUMMARY*

ITEM No.	56.5		56.7	56.8	RADIUS	MARK
ITEM	STRAIGHT GRANITE CURB-C		STRAIGHT GRANITE CURB-D	CURVED GRANITE CURB-D		
UNIT	LIN. FT.		LIN. FT.	LIN. FT.		
LOCATION	STR.	RADIAL JOINTS				
22+67 APPR. RT.			29.8		110	C-1
			59.3		50	C-2
			38.0			C-3
				37.7	20	C-4
				12.9	20	C-5
ISLAND		37.3			11	D-1
						D-2
	55.2				4	D-3
		11.6				D-4
	55.2					
23+90 APPR. RT.			11.1		30	E-1
			66.3		190	E-2
			31.3		30	E-3
			43.0			E-4
			50.1		35	E-5
			29.8		110	E-6

* FOR CURB TOTALS SEE SHT. NO. 6

APPROACH STA. 22 + 67 RT.

SCALE 1" = 20'

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	42	127

NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.
" "	" "
" "	" "
" "	" "
" "	" "
BOOK NO.	PAGE NO.

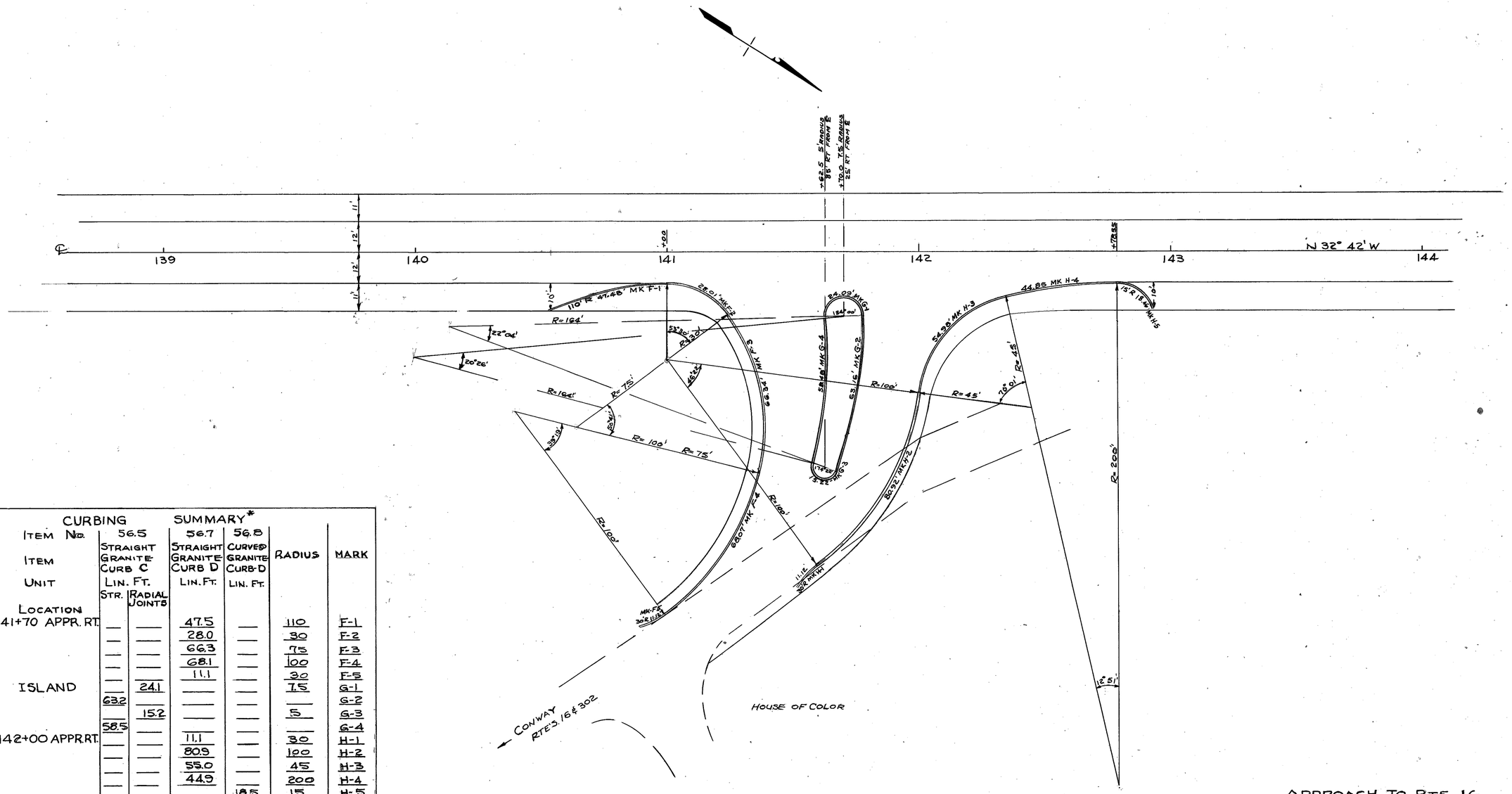
REVISIONS AFTER PROPOSAL

DATE	STA. TO STA.	DESCRIPTION

PLAN TRACED BY	CONNOR	DATE 12-7-59
" CHECKED "		"
PROFILE TRACED BY		"
" CHECKED "		" 7-27-60
INKED BY	CONNOR	
CHECKED BY		

I500-8-58 MODERN BLUE PRINT CO. 23230

FED. ROAD DIV. NO.	STATE	FAP PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F 027 -2(7)	'61	43	127



CURBING SUMMARY*

ITEM No.	56.5		56.7	56.8	RADIUS	MARK
ITEM	STRAIGHT GRANITE CURB C		STRAIGHT GRANITE CURB D	CURVED GRANITE CURB D		
UNIT	LIN. FT.		LIN. FT.	LIN. FT.		
LOCATION	STR.	RADIAL JOINTS				
141+70 APPR. RT.	—	—	47.5	—	110	F-1
	—	—	28.0	—	30	F-2
	—	—	66.3	—	75	F-3
	—	—	68.1	—	100	F-4
	—	—	11.1	—	30	F-5
ISLAND	—	24.1	—	—	75	G-1
	63.2	—	—	—	—	G-2
		15.2	—	—	5	G-3
	58.5	—	—	—	—	G-4
142+00 APPR. RT.	—	—	11.1	—	30	H-1
	—	—	80.9	—	100	H-2
	—	—	55.0	—	45	H-3
	—	—	44.9	—	200	H-4
	—	—		18.5	15	H-5

* FOR CURB TOTALS SEE SHT NO. 6

APPROACH TO RTE. 16
STA. 141+70 RT.
SCALE 1" = 20'

PROJ. NO.	SHEET NO.	TOTAL SHEETS
F027-2(7)	43	127

NOTE BOOKS (USE BOTTOM LINES FIRST)

BOOK NO.	PAGE NO.
" "	" "
" "	" "
" "	" "
" "	" "
BOOK NO.	PAGE NO.

REVISIONS AFTER PROPOSAL

DATE	STA.	TO STA.	DESCRIPTION

PLAN TRACED BY	CONNOR	DATE 12-8-59
" CHECKED "		"
PROFILE TRACED BY		"
" CHECKED "		
INKED BY	R. GEORGE	T-27-60
CHECKED BY		

1569-8-59 MODERN BLUE PRINT CO. 23330