

INDEX OF SHEETS

1	Title
2	Typical
3	Drainage & Item Quantities
4	Grade & Earthwork
5	Right of Way Detail
6-8	Plan & Profile
9-10	Blank
STANDARD SHEETS	
11	A-40 Slopes in Solid Rock Excavation (50 MPH & Over) 4-20-73 R
12	B-4 Slope Grading, Embankments 12-6-71
13	D-13 Drive Intersections 12-14-71
14	D-2 Underdrain & Carrier Pipe Details 12-16-76
15	D-4 Underdrain Flushing Basin 7-24-75 R
16	D-8 Reinforced Concrete Drop Inlet with Grate 4-4-73
17	D-15 Cast Iron Grate, Type B 11-18-72 R
18	E-2 Road Construction Approach Signs 6-7-77 R
19	E-3 Bridge Construction Approach Signs 6-7-77 R
20	E-6 On Project Construction Signs 6-7-77 R
21	G-1 Guard Rail, Std. Steel Beam with Wood Posts, Type II Anchors 6-4-74 R
22	G-1d Guard Rail, Std. Steel Beam with Wood Posts, Type II Approach End 3-2-77 R
23	G-6a Guard Rail, 3 Cable with Light Wood Posts; Anchor 4-17-75 R
24	G-19 Breakaway Cable Terminal for Guard Rail, Std. Steel Beam with Wood Posts Type II 4-21-77 R
25	T-1 Temporary Erosion Control Details 12-7-76 R
26	T-2 Temporary Erosion Control Details 7-5-72
27	J-1 Boundary Markers 12-6-71
28	Blank
29-30	Cross Sections
37-40	Bridge 180 Series
41-44	Bridge 180 Series

RECORD PLANS - MATERIAL SUPPLIERS

CONTRACTOR - EUGENE & JUDITH GRANDFIELD, MORETOWN, VT.  
 CONTRACT DATED - 11 OCTOBER 1977  
 CONSTRUCTION BEGAN - 12 OCTOBER 1977  
 CONSTRUCTION SUSPENDED - 30 NOVEMBER 1977 RESUMED - 15 JUNE 1978  
 CONSTRUCTION COMPLETED - 29 AUGUST 1978 ACCEPTED - 13 SEPTEMBER 1978  
 RESIDENT ENGINEER - R.W. JENSEN RECORD PLANS - PAUL E. SINGLETON  
 SAND BORROW, GRANULAR BORROW, GRANULAR BACKFILL FOR STRUCTURES - KNAPP PIT WEST TOPSHAM, VT.  
 SUBBASE OF GRAVEL - LE PAGE PIT, BARRE, VT. CONCRETE - ANDERSON, BERLIN, VT.  
 REINFORCING STEEL - ALBURN STEEL CO. INC., AUBURN, N.Y.  
 CGMP, ACCOMP - LANE METAL PRODUCTS INC., BALLISTON, N.Y.  
 CAST IRON GRATES WITH FRAMES - L.E. LEBARRON FOUNDRY CO., BROCKTON, MASS.  
 UNDERDRAIN, CARRIER PIPE, FLUSHING BASINS - LANE METAL PRODUCTS INC., BALLISTON, N.Y.  
 WOOD MARKER POSTS, BOUNDARY MARKERS, GUARD RAIL, ANCHORS FOR GUARD RAIL, CABLE FOR GUARD RAIL (BREAKWAY), SEED, FERTILIZER, HAY MULCH, EXCELRIOR MATTING - LAFAYETTE - SHELDON INC., ESSEX JCT, VT.

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS



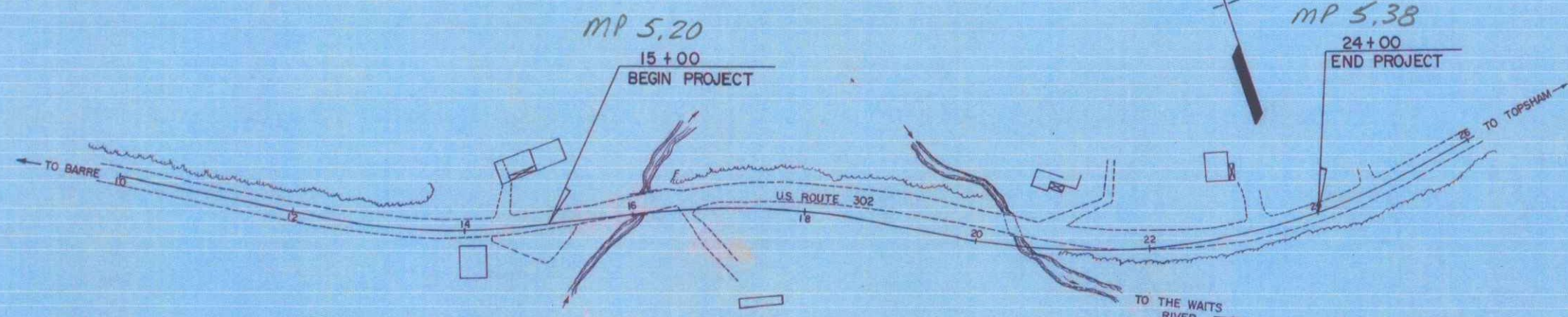
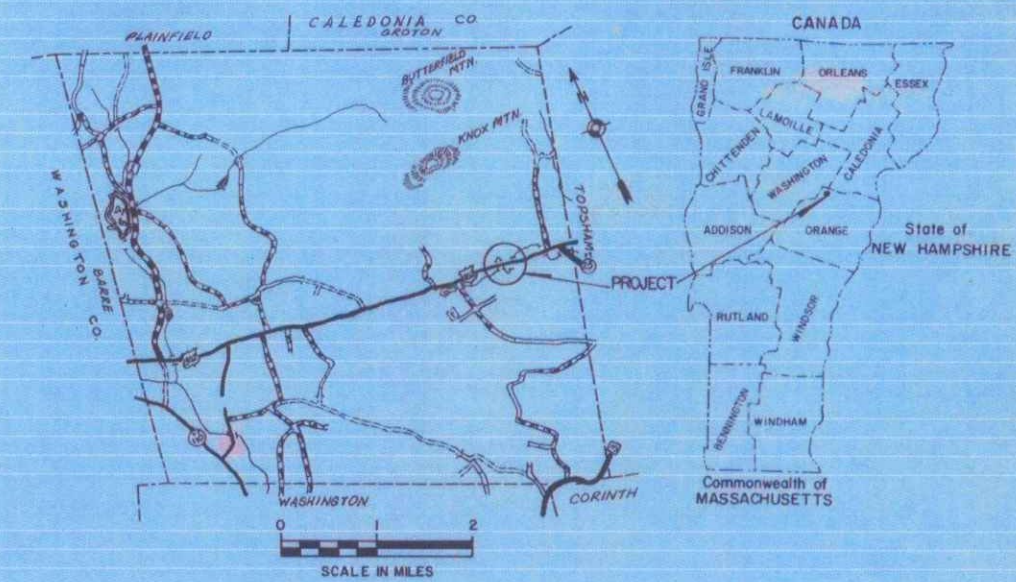
PROPOSED IMPROVEMENT  
 TOWN OF ORANGE  
 COUNTY OF ORANGE

U.S. ROUTE 302

BEGINNING AT A POINT ON U.S. ROUTE 302, 5.21 MILES EASTERLY OF THE ORANGE / BARRE TOWN LINE, AND EXTENDING EASTERLY 0.170 MILES.

LENGTH OF PROJECT 900 FEET = 0.170 MILES

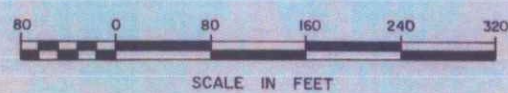
1976	AADT	1720
1986	AADT	2185 (Est.)
1986	DHV	310 (Est.)
1996	AADT	2650 (Est.)
1996	DHV	375 (Est.)
	D	56%
	T	6%
DESIGN SPEED		40 MPH



Pin # 476E097

CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	- - - -
LIMITS OF ACCESS	○ ○ ○ ○
POINT OF ACCESS	X
FENCE LINE	— X — X — X —
STONE WALL	— · · · — · · · — · · · —
TRAVELED WAY	— · · · — · · · — · · · —
GUARD RAIL	— · · · — · · · — · · · —
RAILROAD	— · · · — · · · — · · · —
SURVEY LINE	— · · · — · · · — · · · —
CULVERT	— · · · — · · · — · · · —
TOWER POLE	○
TELEPHONE POLE	○
TREES	○
F.A. CONST. IDENTIFICATION SIGNS	▲
PROPERTY LINE	— · · · — · · · — · · · —
ROW TAKING LINE	— · · · — · · · — · · · —
SLOPE RIGHTS	○ SR ○
TOP OF CUT	○
TOE OF SLOPE	○



These plans are subject to such engineering changes as may be required by the Federal Highway Administration or the Chief Engineer. Construction is to be carried on in accordance with these plans and the Standard Specifications for Highway and Bridge Construction dated March 1976 as approved by the Federal Highway Administration on October 27 1976, including all subsequent revisions and such revised specification and special provisions as are incorporated in these plans.

SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

APPROVED: *[Signature]* DATE 7/22/77  
 CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 DIVISION ENGINEER

PROJECT: TQF # 026-1(16)  
 SHEET 1 OF 4 SHEETS

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS  
RIGHT-OF-WAY PLANS  
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
1A	MCKAY, DUNCAN C. & JUDITH M. (H&W)	4, 5, 6	REV. 12+31.23 RT.	REV. 24+91 RT.	0.75 A±	74.25 A±	CONST. EASE. (T) CULVERT, DITCH & DRAINAGE (P) DRIVE (T)	W.D.O.E.	8-29-77	ORANGE	29	21, 22	(0.07 A±)
			REV. 13+76 RT.	REV. 14+44 RT.									
			REV. 14+28 RT.										
			REV. 16+50 RT.	REV. 17+50 RT.									
			REV. 16+60 RT.	REV. 18+90 RT.									
			REV. 19+55 RT.	REV. 20+90 RT.									
			REV. 24+00 RT.	REV. 24+10 RT.									
			REV. 14+10 RT.										
			REV. 14+15 RT.	REV. 15+50 RT.									
			REV. 14+00 RT.										
1B		5	REV. 13+70 RT.	REV. 14+71 RT.	0.04 A±	25.0 A±	RIGHT TO CONST. (T)						(1875 S.F.±)
			REV. 15+55 LT.	REV. 16+55 LT.									
			REV. 12+31.23 LT.	REV. 18+15 LT.									
			TOTAL										
			0.79 A±	99.25 A±									
2	DIMICK, RODNEY D. & LINDA A.	5, 6	REV. 19+95 LT.	REV. 20+30 LT.			CHANNEL (P) DRIVE (T)						135 S.F. 14' GRAVEL, M.P. 0533 DRIVE RELEASE DATE DRIVE PERMIT DATE
3	MARTIN, ROBERT G. & BEVERLY (H&W)	6	REV. 22+05 LT.	REV. 23+95 LT.			SLOPE (T) SLOPE (T)						(0.03A±) (60 S.F.±)
4	TOPSHAM TELEPHONE CO., INC.												UTILITY
5	WASHINGTON ELECTRIC COOPERATIVE INC.												UTILITY

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	3, 4 & 5	PARCEL NO. 1 MCKAY ADDED PRIVATE POWER LINE & POLES TO LAYOUT & DETAIL SHEETS PER C.O.# 3282	2/9/77	A.G.S.	T.P.M.
2	3, 6	Parcel No. 2 Add Channel Rights Limits Per C.O.# 3337	4/13/77	A.G.S.	T.P.M.
3	3, 5, 6	Parcel #2 Dimick. Change in Title from Bushey to Dimick Per C.O.# 3350	4/20/77	A.G.S.	T.P.M.
4	3, 4	Parcel #4 M. Kay Added Drive at Sta. 14+00.00. Also Added Right to Construct Turnout (T) Per C.O.# 3537	10/26/77	KSP	T.P.M.

MADE BY: KDP DATE 2-2-77  
CHECKED BY: WEB DATE 2-2-77

DR. RT - DRAINAGE RIGHT  
DT. RT - DITCHING RIGHT  
CH. RT - CHANNEL RIGHT  
DRIVE RT - DRIVE RIGHT  
CUL. RT - CULVERT RIGHT  
D - DEMOLITION OR REMOVAL  
W - WATER SOURCES

PRESENT R.O.W.  
--- TAKING WITHOUT ACCESS  
--- TAKING WITHOUT ACCESS ALONG PROPERTY LINES  
--- TAKING WITH ACCESS  
(P) PERMANENT EASEMENT  
(T) TEMPORARY EASEMENT

LEGEND

SR - SR SLOPE RIGHTS  
P - P PROPERTY LINE  
△ - △ TOP OF CUT  
○ - ○ TOP OF SLOPE

APPROVED: Thomas J. Meyer DATE 2-2-77  
CHIEF OF PLANS & TITLES

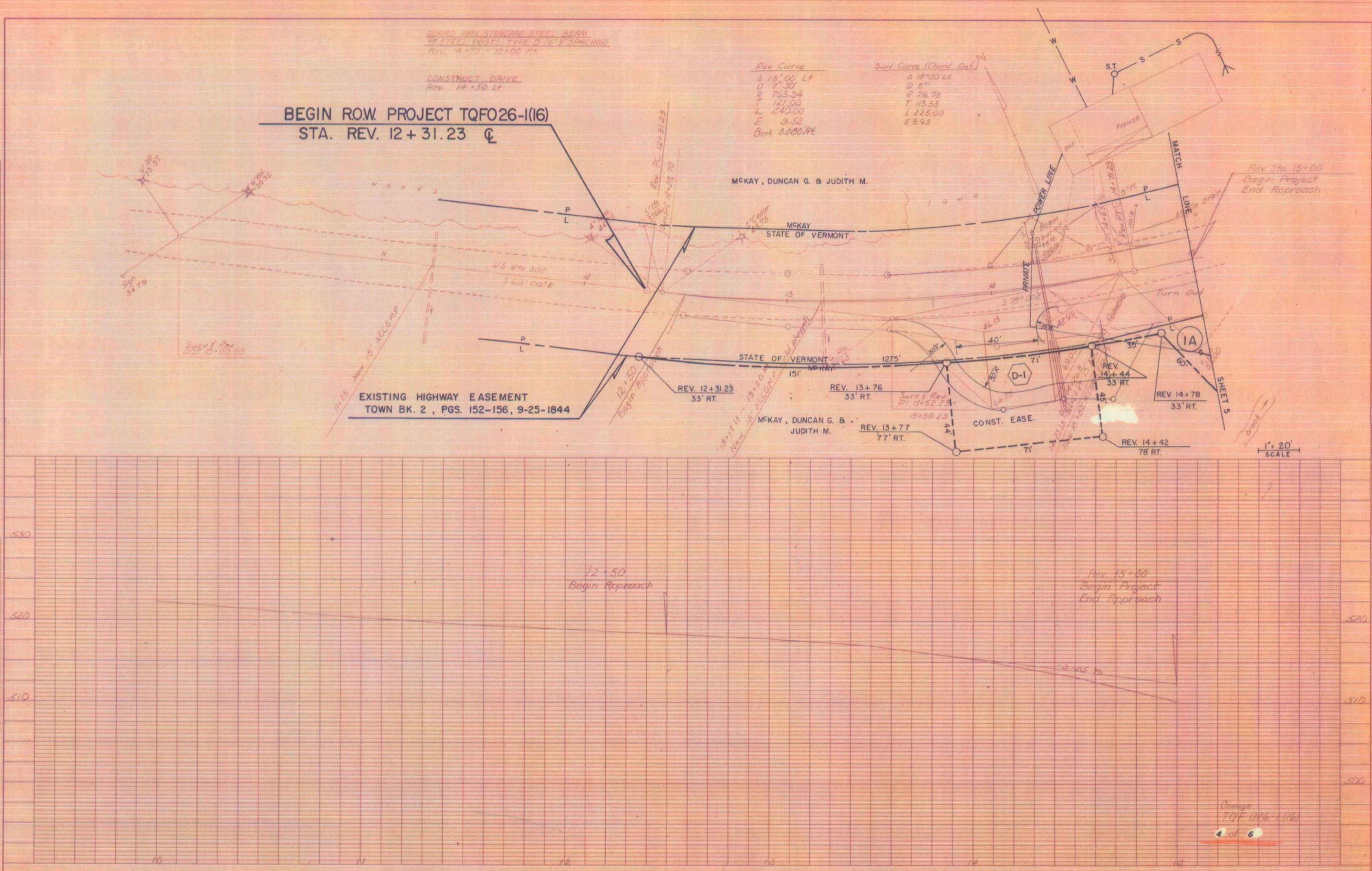
PROJECT ORANGE  
NO. TQ F 026-1 (16)  
SHEET 3 OF 6

Sheet 3 of 44

ROW

DATE	12/15/11
PROJECT	DRIVE
SCALE	1" = 20'
NO.	1
BY	...
CHECKED	...
DATE	...
PROJECT	...
SCALE	...
NO.	...
BY	...
CHECKED	...
DATE	...

DATE	12/15/11
PROJECT	DRIVE
SCALE	1" = 20'
NO.	1
BY	...
CHECKED	...
DATE	...
PROJECT	...
SCALE	...
NO.	...
BY	...
CHECKED	...
DATE	...



K&E PLATE 1, PLAN PROFILE  
 K&E ENGINEERING & ARCHITECTURE  
 40 TOWN MERCURY DRIVE, SUITE 100, COLCHESTER, VT 05445  
 TEL: 802-888-1111 FAX: 802-888-1112

Orange  
 TQF 026-1(16)  
 4 of 6

DEMOLITION / DISPOSAL OF BUILDING  
 (D) Barn 14+10 20' RT

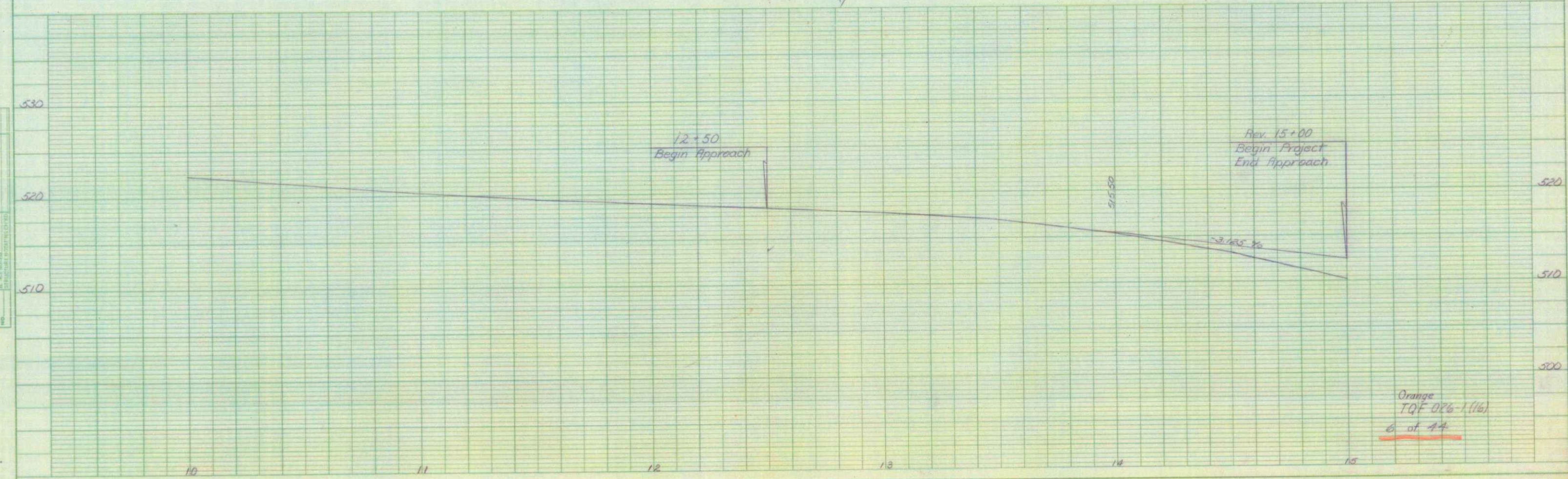
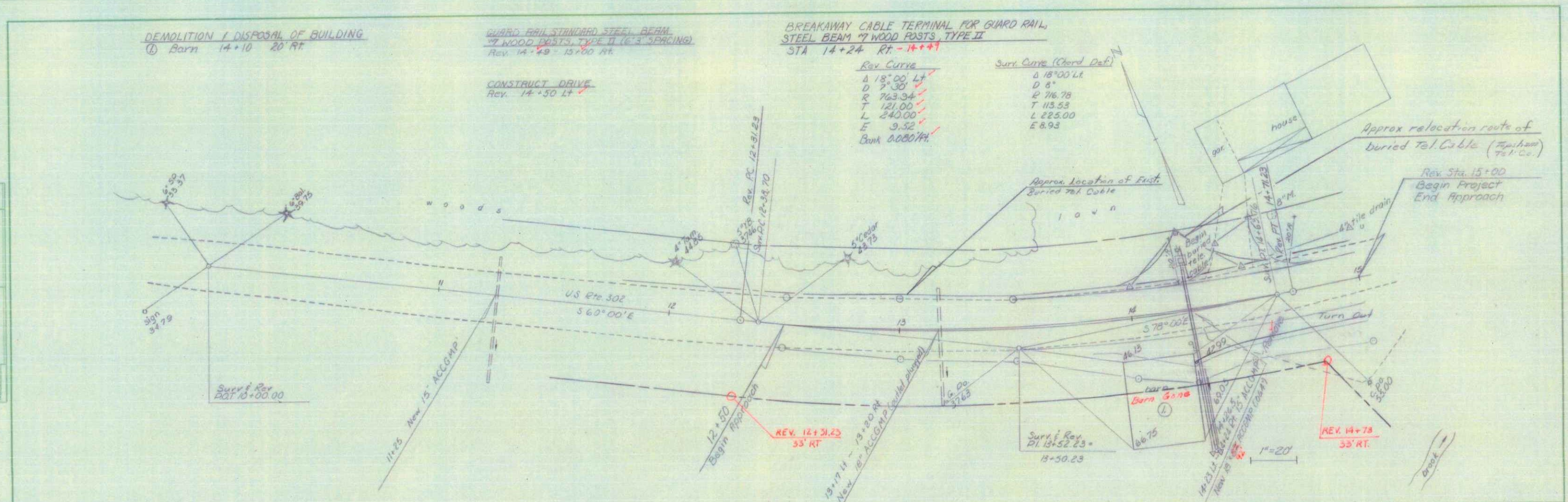
GUARD RAIL STANDARD STEEL BEAM  
 7" WOOD POSTS, TYPE II (6'3" SPACING)  
 Rev. 14+49 - 15+00 RT

BREAKAWAY CABLE TERMINAL FOR GUARD RAIL  
 STEEL BEAM 7" WOOD POSTS, TYPE II  
 STA 14+24 RT - 14+47

CONSTRUCT DRIVE  
 Rev. 14+50 LT

REV CURVE  
 Δ 18°00' LT  
 D 7°30'  
 R 763.34  
 T 121.00  
 L 240.00  
 E 9.52  
 BANK 0.00074

SURV CURVE (CHORD DATA)  
 Δ 18°00' LT  
 D 8'  
 R 716.78  
 T 113.53  
 L 225.00  
 E 8.93



PLAN  
 DATE: 11/11/11  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]

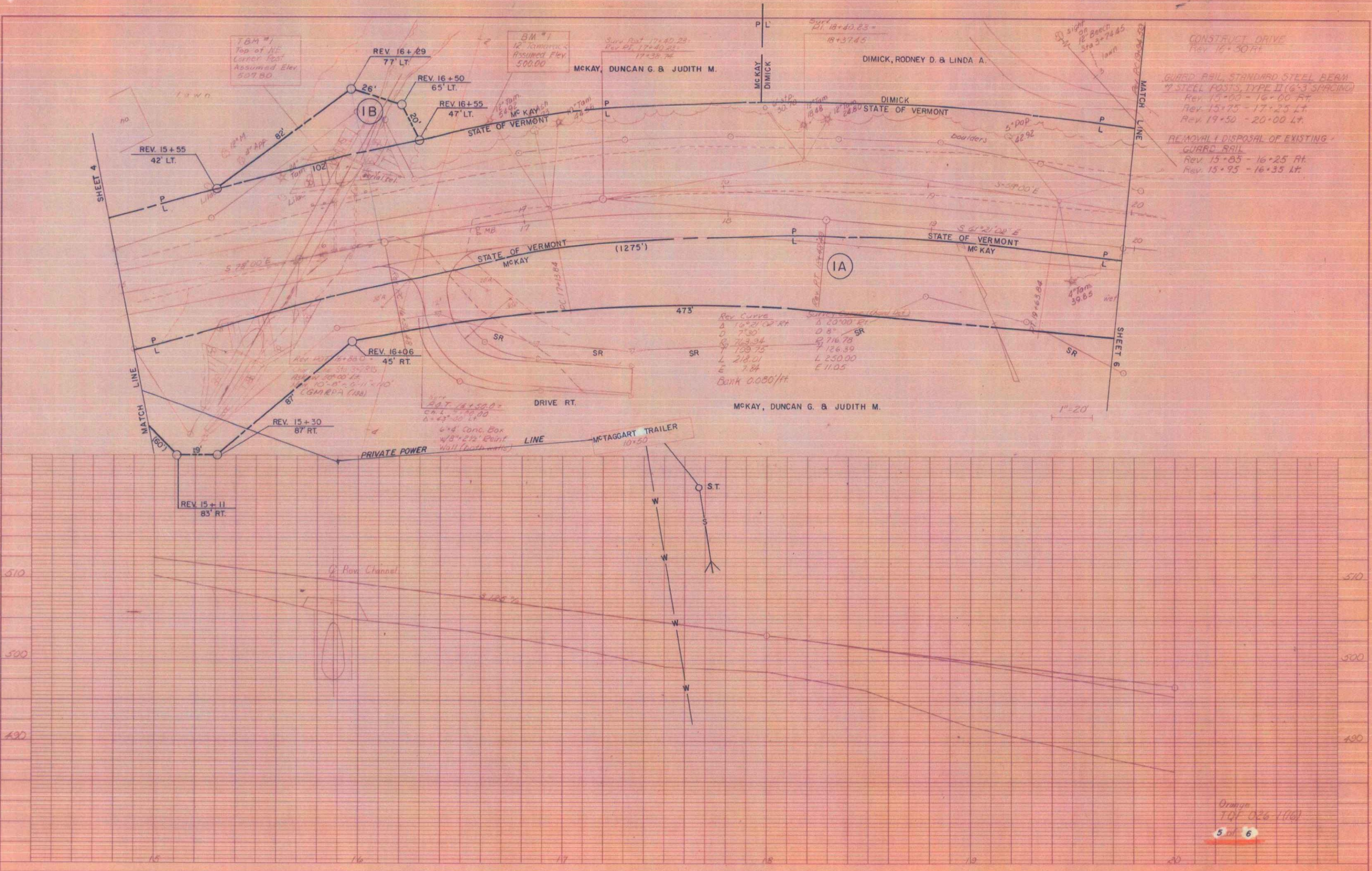
PROFILE  
 DATE: 11/11/11  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]

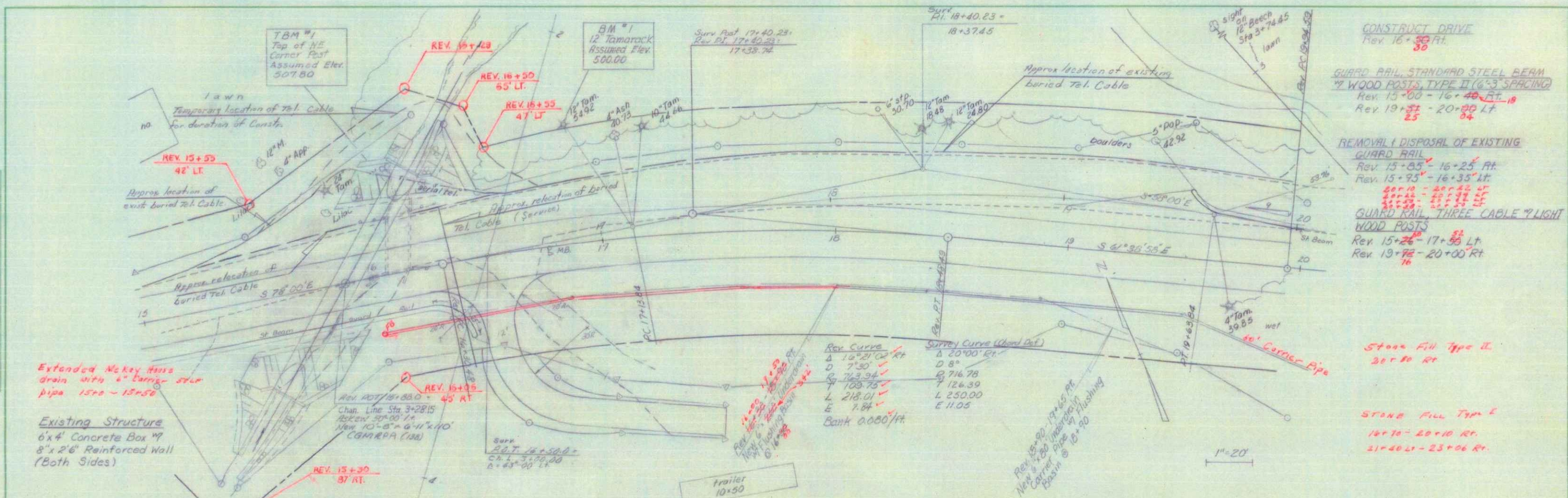
PLAN

DATE	
BY	
CHECKED	
SCALE	
PROJECT	
NO.	

PROFILE

DATE	
BY	
CHECKED	
SCALE	
PROJECT	
NO.	





CONSTRUCT DRIVE  
Rev. 16+50 - 80 FT.

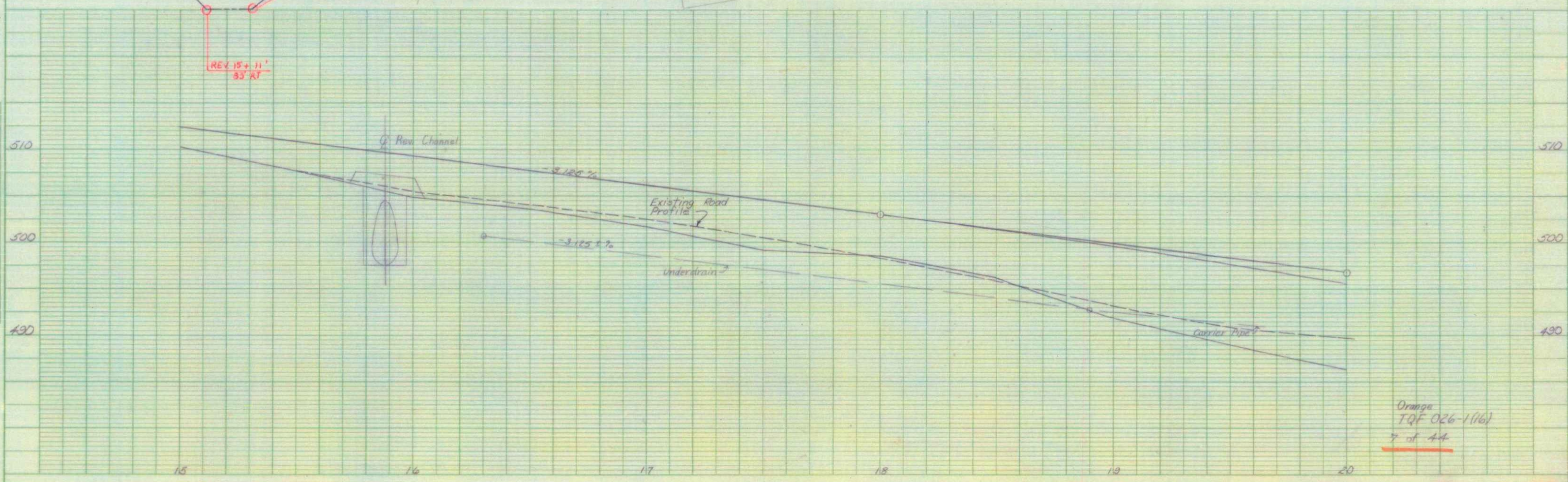
GUARD RAIL, STANDARD STEEL BEAM  
7" WOOD POSTS, TYPE II (6" SPACING)  
Rev. 13+00 - 16+40 LT  
Rev. 19+25 - 20+00 LT

REMOVAL/ DISPOSAL OF EXISTING  
GUARD RAIL  
Rev. 15+05 - 16+25 FT.  
Rev. 15+95 - 16+35 FT.

GUARD RAIL, THREE CABLE 7" LIGHT  
WOOD POSTS  
Rev. 15+25 - 17+35 LT  
Rev. 19+75 - 20+00 RT

STONE FILL Type II  
21+20 RT

STONE FILL Type E  
16+70 - 20+10 RT  
21+40 - 23+00 RT

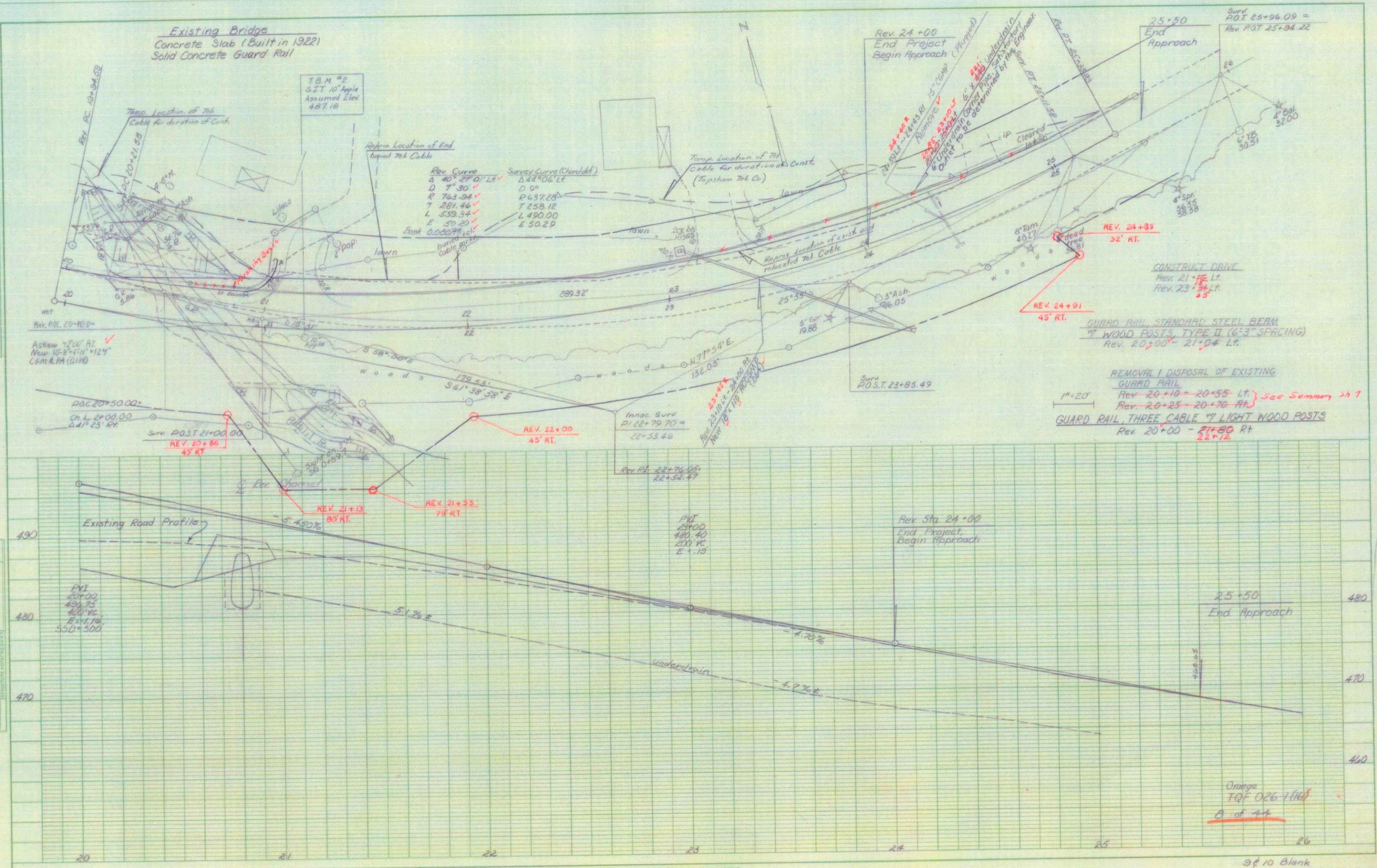


PLAN  
DATE: \_\_\_\_\_  
SCALE: \_\_\_\_\_  
PROJECT: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_

PROFILE  
DATE: \_\_\_\_\_  
SCALE: \_\_\_\_\_  
PROJECT: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_



Existing Bridge  
Concrete Slab (Built in 1922)  
Solid Concrete Guard Rail



Survey Curve (Chorded)

Δ	40° 27' 01" LT	Δ	43° 06' 11" LT
D	7° 30'	D	0°
R	763.94'	P	637.28'
T	281.46'	T	258.12'
L	539.34'	L	490.00'
E	50.29'	E	50.29'

CONSTRUCT DRIVE  
Rev. 21+10 - 21+15 LT.  
Rev. 23+10 - 23+15 LT.

GUARD RAIL, STANDARD STEEL BEAM  
"Y" WOOD POSTS, TYPE II (6'3" SPACING)  
Rev. 20+00 - 21+04 LT.

REMOVAL / DISPOSAL OF EXISTING  
GUARD RAIL  
Rev. 20+10 - 20+55 LT. See Summary on 7  
Rev. 20+25 - 20+76 RT.

GUARD RAIL, THREE CABLE "Y" LIGHT WOOD POSTS  
Rev. 20+00 - 21+04 RT.

PLAN  
Scale: 1" = 20'

PROFILE  
Scale: 1" = 10'

Orange  
TQF 026-1168  
A of 44