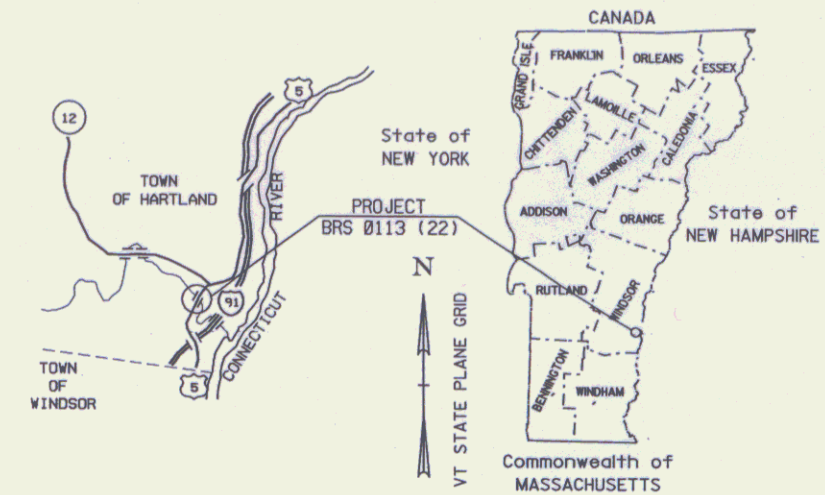


STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
TOWN OF HARTLAND
COUNTY OF WINDSOR
U.S. RTE. 5

R.O.W. PLANS

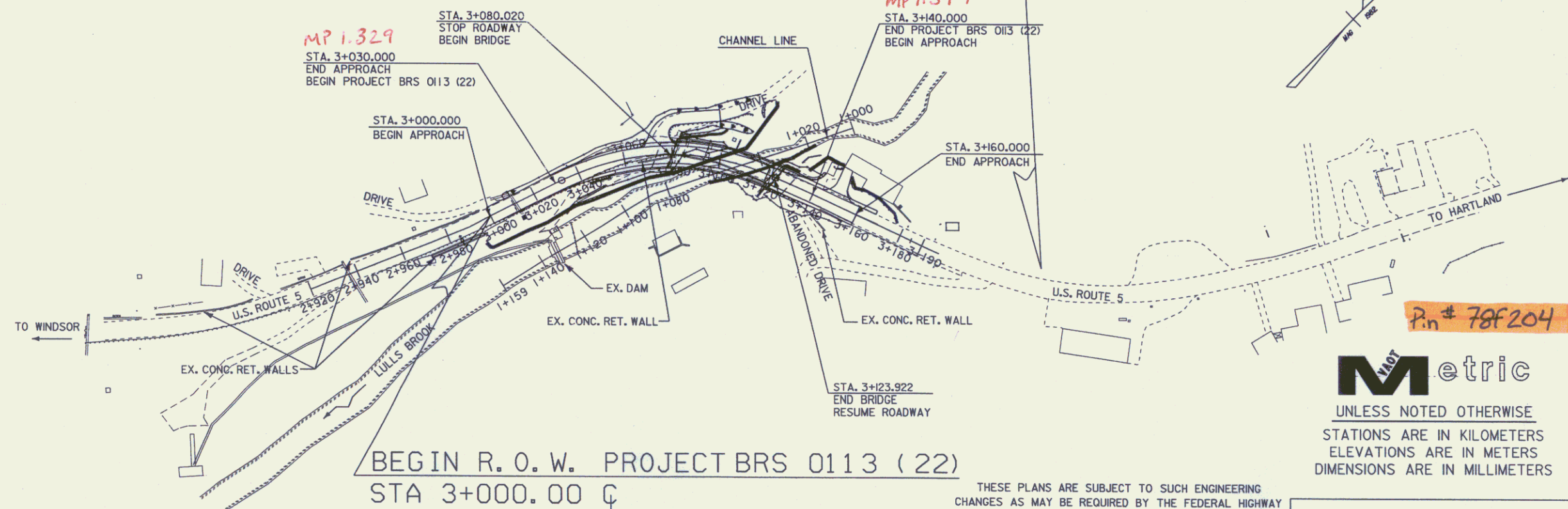


HARTLAND BRS 0113 (22)

BEGINNING AT A POINT APPROXIMATELY 2.135 KILOMETERS
NORTH OF THE WINDSOR-HARTLAND TOWN LINE AND EXTENDING NORTH 0.110 KILOMETERS
WORK TO BE PERFORMED ON THIS PROJECT INCLUDES REPLACEMENT OF BRIDGE #60
OVER LULLS BROOK AND NECESSARY ROADWAY APPROACHES.

LENGTH OF STRUCTURES 0.044 KILOMETERS
LENGTH OF ROADWAY 0.066 KILOMETERS
LENGTH OF PROJECT 0.110 KILOMETERS
LENGTH OF R.O.W. 0.240 KILOMETERS (0.149 MILES)

END R.O.W. PROJECT BRS 0113 (22)
STA 3+239.98 7.62M (25.0') LT.

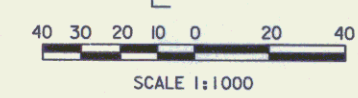


BEGIN R.O.W. PROJECT BRS 0113 (22)
STA 3+000.00 C

CONVENTIONAL SIGNS	
COUNTY LINE	— — — — —
TOWN LINE	— — — — —
LIMITS OF ACCESS	— o — o —
POINT OF ACCESS	X
FENCE LINE	x — x — x
STONE WALL	o — o — o — o
TRAVELED WAY	— — — — —
GUARD RAIL	- - - - -
RAILROAD	— + — + — +
SURVEY LINE	— + — + — +
CULVERT	— — — — —
POWER POLE	⊕
TELEPHONE POLE	⊙
TREES	⊗
CONTROL OF ACCESS	///
PROPERTY LINE	— — — — —
R.O.W. TAKING LINE	— — — — —
SLOPE RIGHTS	— — — — —
TOP OF CUT	— — — — —
TOE OF SLOPE	— — — — —

DATUM	
VERTICAL	— — — — —
HORIZONTAL	— — — — —

ALL DRIVES AS INDICATED ON PLANS
ARE SUBJECT TO PERMITS PURSUANT
TO TITLE 19 SECTION III, V.S.A.



THE FOLLOWING RIGHT OF WAY PLAN SHEETS PERTAIN
DIRECTLY TO THE ACQUISITION OF LAND AND RIGHTS
NECESSARY TO CONSTRUCT THIS TRANSPORTATION
PROJECT. SHEETS REGARDING SPECIFIC CONSTRUCTION
DETAILS ARE NOT INCLUDED IN THIS RECORDED SET.

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING
CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY
ADMINISTRATION OR THE DIRECTOR OF PROJECT
DEVELOPMENT.
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS
FOR CONSTRUCTION DATED 1995, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON AUGUST 21, 1995
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE
PLANS.

Metric
UNLESS NOTED OTHERWISE
STATIONS ARE IN KILOMETERS
ELEVATIONS ARE IN METERS
DIMENSIONS ARE IN MILLIMETERS

APPROVED DAVIS J. SCOTT DATE 5/8/01
Director of Project Development

APPROVED WILLIS J. MORSE DATE 4/30/01
Chief, Right of Way

HARTLAND
BRS 0113 (22)

R.O.W. SHEET **1** OF 11 SHEETS

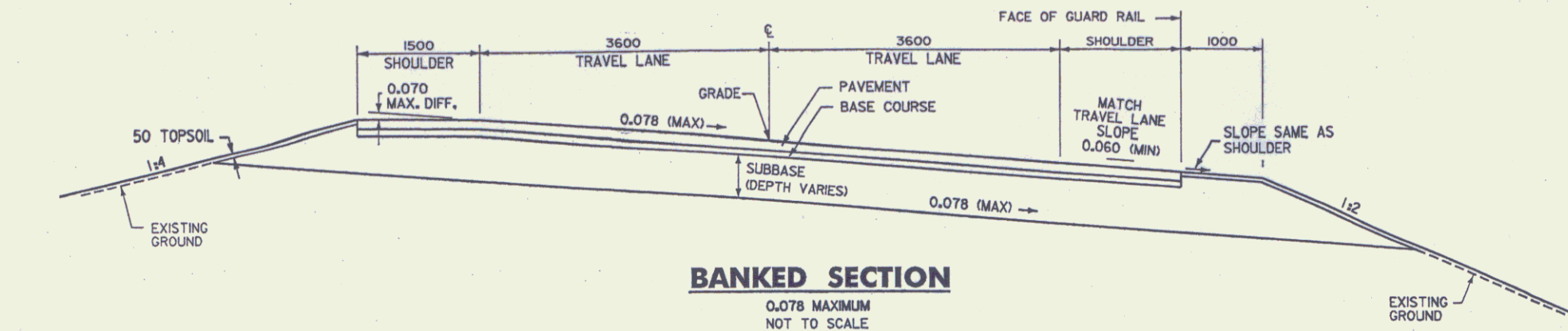
TYPICAL SECTIONS



115 BITUMINOUS CONCRETE PAVEMENT (50 TYPE III OVER 65 TYPE II)
 80 BASE COURSE OF BITUMINOUS CONCRETE PAVEMENT (TYPE I, ONE LIFT)
 SUBBASE OF CRUSHED GRAVEL (COARSE GRADED) - MODIFIED (DEPTH VARIES - SEE TRANSITION DETAILS, SHEETS 63 & 69)

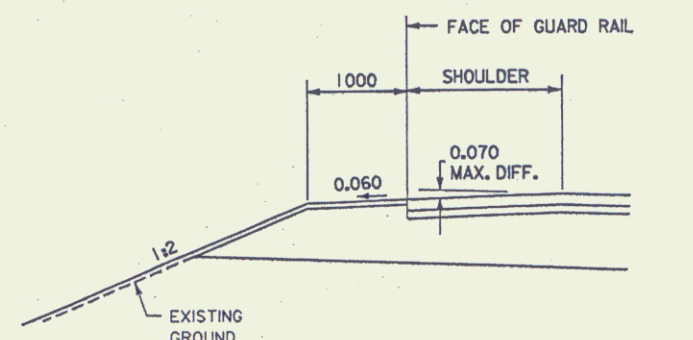
MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH)	+/- 5
SUBBASE	+/- 30

SHOULDERS: 115 BITUMINOUS CONCRETE PAVEMENT
 80 BASE COURSE OF BITUMINOUS CONCRETE PAVEMENT



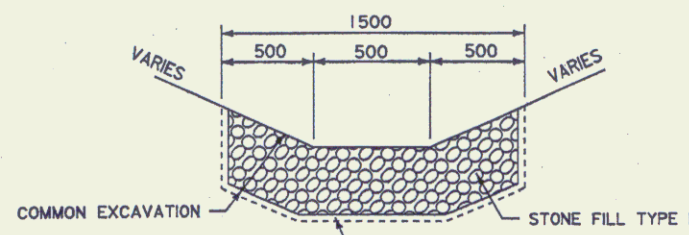
BANKED SECTION

0.078 MAXIMUM
 NOT TO SCALE



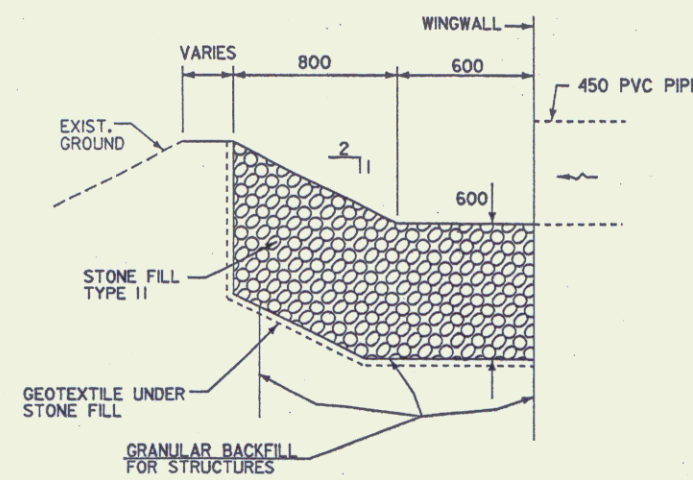
DETAIL OF GUARD RAIL ON HIGH SIDE OF BANKED SECTION

NOT TO SCALE



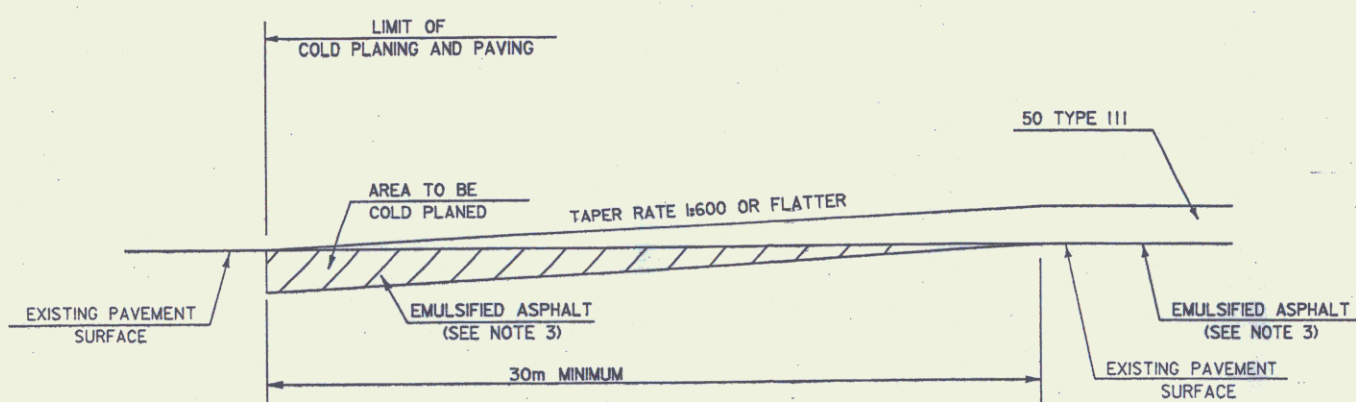
STONE FILLED DITCH DETAIL I

NOT TO SCALE



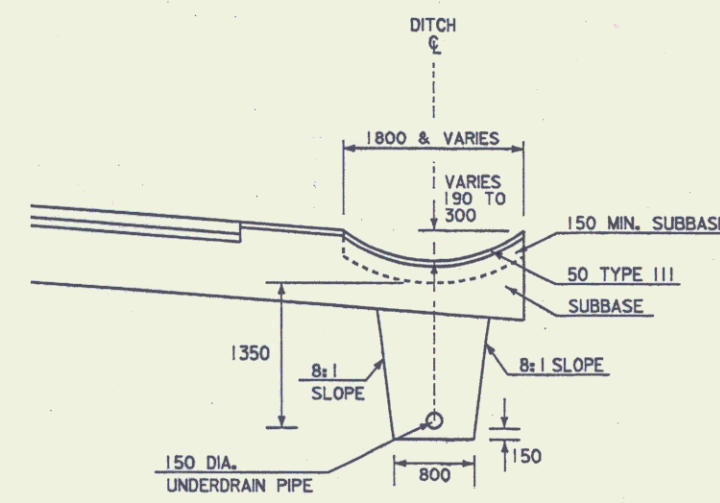
STONE FILLED DITCH DETAIL II

NOT TO SCALE



COLD PLANE DETAIL

NOT TO SCALE



PAVED GUTTER DETAIL

NOT TO SCALE

NOTES

- THE PAVEMENT WEARING COURSE SHALL BE TYPE II, BITUMINOUS CONCRETE PAVEMENT. ASPHALT CEMENT USED IN THE BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 58-28.
- COLD PLANING TO BE COMPLETED ACCORDING TO TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. ALL COLD PLANED AREAS SHALL BE TACKED WITH EMULSIFIED ASPHALT.
- EMULSIFIED ASPHALT TO BE APPLIED ON EXISTING PAVEMENT, BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED AREAS AT THE RATE OF 0.07 L/m² OR AS DIRECTED BY THE ENGINEER.
- PIPE INLET AND OUTLET AREAS, AND DITCH CLEANING THROUGHOUT THE PROJECT SHALL BE PERFORMED AT LOCATIONS AS INDICATED ON PLANS, OR AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE MADE UNDER APPLICABLE RENTAL ITEMS.
- SLOPE ROUNDING - ALL CUT SLOPE ROUNDINGS TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5M.
- MILEMARKERS DISTURBED BY CONSTRUCTION SHALL BE RESET AT THE DIRECTION OF THE ENGINEER WITH PAYMENT TO BE SUBSIDIARY TO OTHER ITEMS OF WORK.

RURAL AREAS - SEED MIXTURE				
% WT	kg/ha	NAME	PUR %	GERM %
37.1	26.0	CREeping RED FESCUE	98	85
37.1	26.0	TALL FESCUE	95	90
5.7	4.0	RED TOP	95	90
14.4	10.0	BIRDSFOOT TREFoil	98	85
5.7	4.0	ANNUAL RYE GRASS	95	85
100.0	70.0			

URBAN AREAS (LAWNS) - SEED MIXTURE				
% WT	kg/ha	NAME	PUR %	GERM %
42.5	38.0	CREeping RED FESCUE	98	85
10.0	9.0	PERENNIAL RYE GRASS	95	90
42.5	38.0	KENTUCKY BLUE GRASS	85	85
5.0	5.0	ANNUAL RYE GRASS	95	85
100.0	90.0			

SEED MIXTURE:
 SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED:
 TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER:
 FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 560 kg/ha. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA)

AGRICULTURAL LIMESTONE:
 TO BE APPLIED AT THE RATE OF 4500kg/ha, OR AS DIRECTED BY THE ENGINEER.

HAY MULCH:
 TO BE PLACED ON EARTH SLOPES AT THE RATE OF 4500kg/ha, OR AS DIRECTED BY THE ENGINEER.

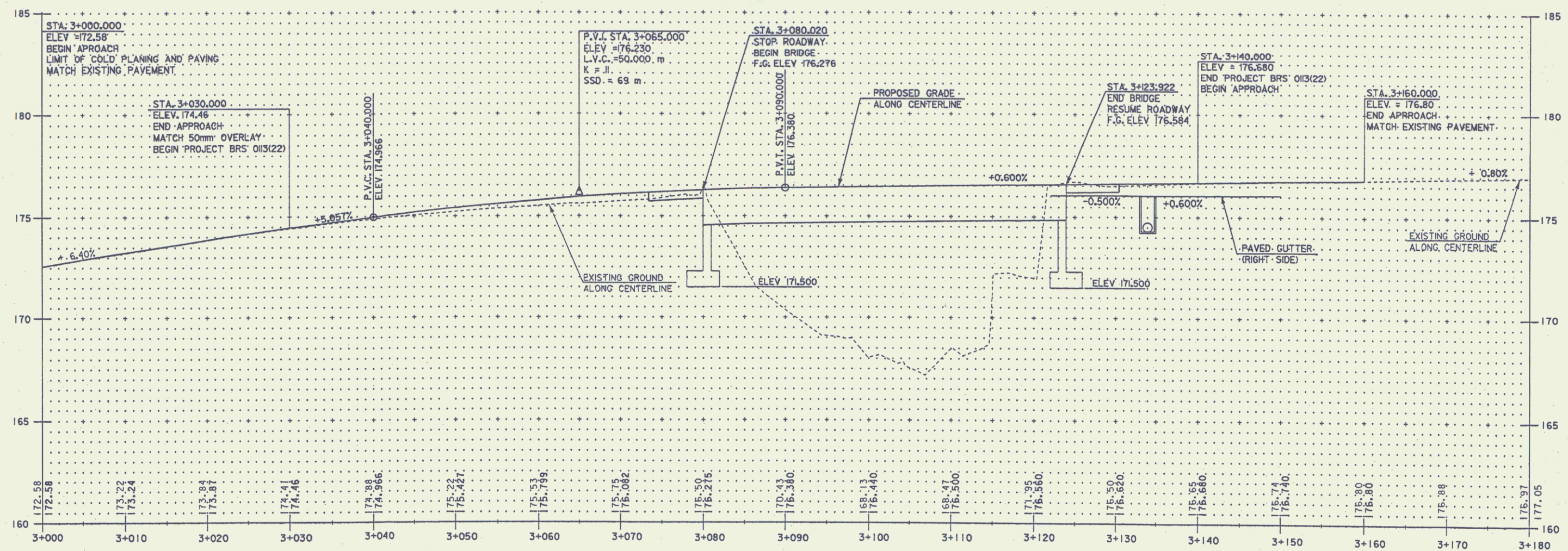
TOPSOIL:
 TO BE USED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

MARKER POSTS:
 TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER.

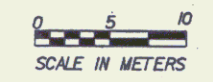
NOTE: ALL DIMENSIONS ON THIS SHEET IN MILLIMETERS EXCEPT WHERE OTHERWISE INDICATED

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	HARTLAND	Bridge No.	60
Highway No.	U.S. ROUTE 5	Log Sta.	
		Surv. Sta.	
U.S. ROUTE 5 OVER LULLS BROOK			
TYPICAL SECTIONS			
Designed By	J. McDUFFEE	Drawn By	R. REMY
Checked By	C. WOIDT	Date	5/95
		Bridge Design Supervisor	J. MIECZKOWSKI
		Date	DEC. 1998
PROJECT	HARTLAND	PROJECT NO.	BRS No. 013122
L.G.C. Info. pr\914562\z\z204frm.dgn			
R.Q.W. SHEET 2 OF 11 SHEETS			

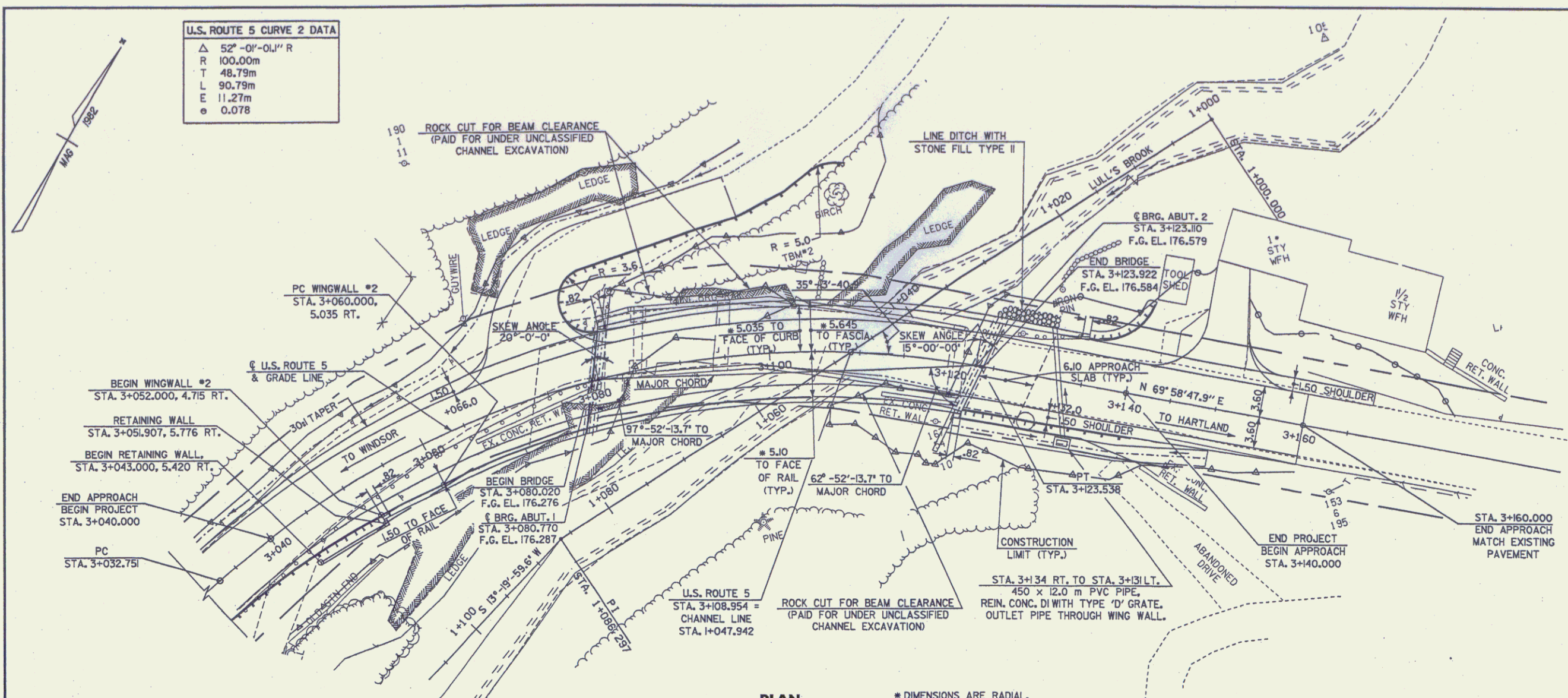


U. S. ROUTE 5

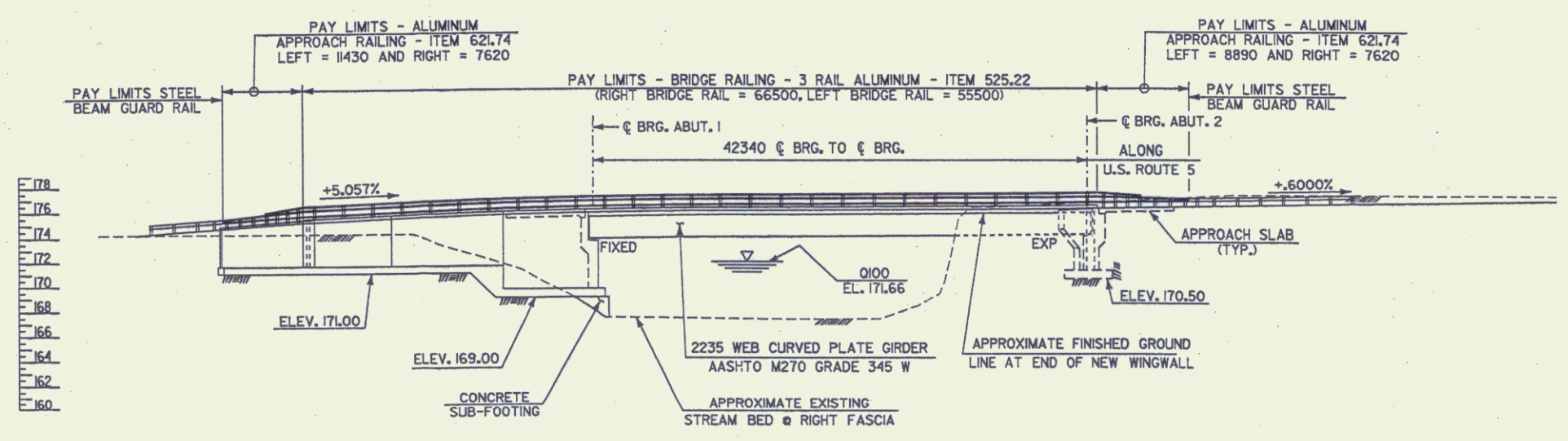


STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of	HARTLAND	Bridge No.	60
Highway No.	U.S. ROUTE 5	Leg Sta.	
U.S. ROUTE 5 OVER LULLS BROOK			
PROFILE			
Designed By	J. McDUFFEE	Drawn By	R. REMY
Checked By	C. WOODT	Date	5/95
		Bridge Design Supervisor	J. MIECZKOWSKI Date DEC. 1998
PROJECT	HARTLAND	PROJECT NO.	BR No. 0113(22)
I.G.C. Info. pr\j94562\zf204xsl.dgn			
R.O.W. SHEET 3 OF 11 SHEETS			

U.S. ROUTE 5 CURVE 2 DATA
 Δ 52°-01'-01" R
 R 100.00m
 T 48.79m
 L 90.79m
 E 11.27m
 e 0.078



PLAN
 SCALE IN METERS
 0 5 10 20

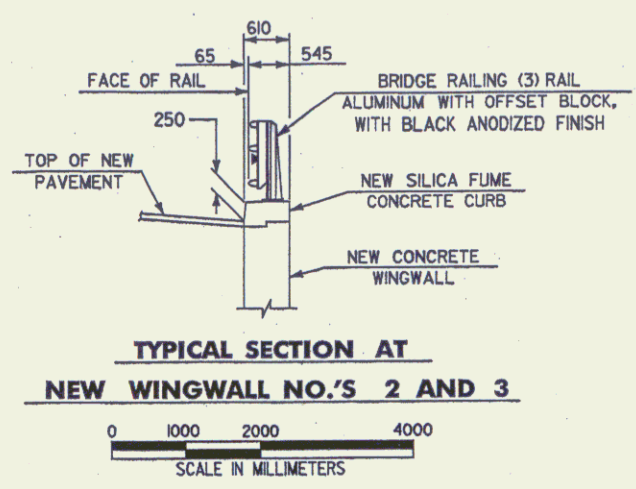
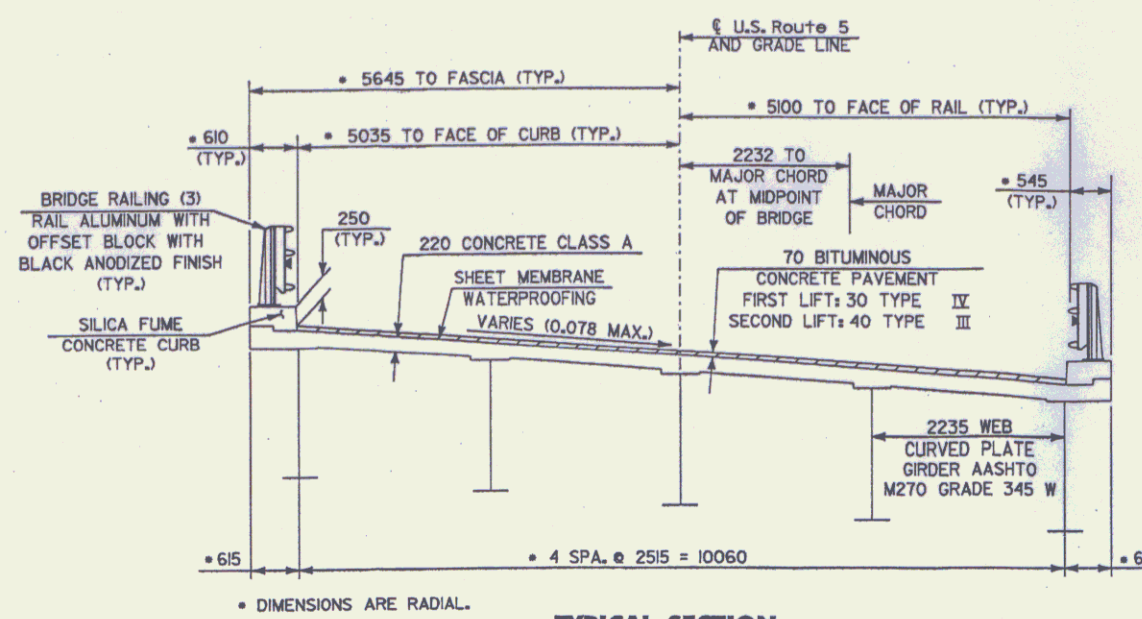


ELEVATION
 SCALE IN METERS
 0 5 10 20

- NOTES:**
 1. FOR EXISTING STRUCTURE LAYOUT SEE HIGHWAY PLAN SHEET
 2. FOR TEMPORARY DETOUR LAYOUT SEE TRAFFIC CONTROL PLAN SHEETS.
 3. FOR REMOVAL AND RELOCATION OF EXISTING TOOL SHED SEE HIGHWAY PLAN SHEET

STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of	HARTLAND	Bridge No.	60
Highway No.	U.S. ROUTE 5	Log Sta.	
		Surv. Sta.	
U.S. ROUTE 5 OVER LULLS BROOK			
BRIDGE PLAN AND ELEVATION			
Designed By	S. BAKI 12/98	Drawn By	W. GAYNOR 12/98
Checked By	S. BAKI	Date	12/98
		Bridge Design Supervisor	J. MECZKOWSKI Date 12/98
PROJECT	HARTLAND	PROJECT NO.	BRS No. 01131221
I.G.C. Info. M:\456201\VAOT Hartland\struct\zr\204gpl.dgn			
R.O.W. SHEET 4 OF 11 SHEETS			

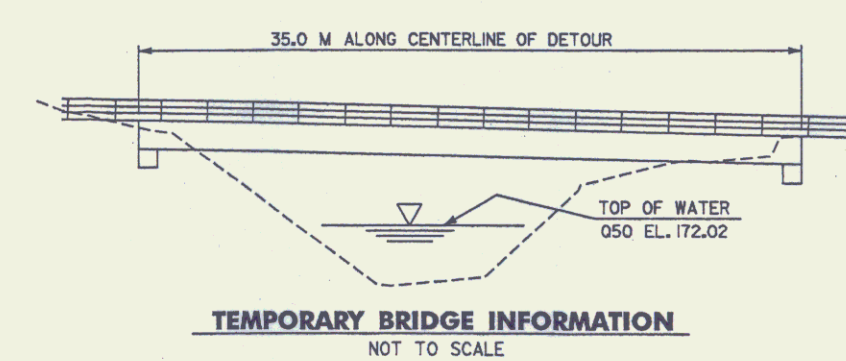
FINAL HYDRAULICS REPORT



TYPICAL SECTION
SCALE IN MILLIMETERS

INDEX OF BRIDGE SHEETS

- BR100 PRELIMINARY INFORMATION SHEET
- BR101 BRIDGE QUANTITY SHEET
- BR102 GENERAL NOTES
- BR103 BRIDGE PLAN AND ELEVATION
- BR104 TYPICAL ABUTMENT AND WINGWALL SECTIONS
- BR105 BORING INFORMATION SHEET - 1
- BR106 BORING INFORMATION SHEET - 2
- BR107 BORING INFORMATION SHEET - 3
- BR108 BORING INFORMATION SHEET - 4
- BR109 DECK REINFORCING PLAN AND SECTIONS
- BR110 TYPICAL BRIDGE SECTION AND DETAILS
- BR111 FRAMING PLAN AND GIRDER ELEVATION
- BR112 CROSS FRAME DETAILS
- BR113 CROSS FRAME DETAILS
- BR114 GIRDER SPLICE DETAILS
- BR115 ABUTMENT NO. 1 FIXED BEARING DETAILS
- BR116 ABUTMENT NO. 2 EXPANSION BEARING DETAILS
- BR117 EXPANSION JOINT DETAILS AT ABUTMENT NO. 2
- BR118 EXPANSION JOINT DETAILS AT ABUTMENT NO. 2
- BR119 EXPANSION JOINT DETAILS AT ABUTMENT NO. 2
- BR120 MISCELLANEOUS DETAILS
- BR121 ABUTMENT NO. 1 PLAN
- BR122 ABUTMENT NO. 1 ELEVATION & SECTIONS
- BR123 ABUTMENT NO. 2 DETAILS
- BR124 ABUTMENT NO. 1 AND 2 SECTIONS
- BR125 WINGWALL NO. 2 AND 3 ELEVATIONS
- BR126 WINGWALL NO. 2 AND 3 SECTIONS
- BR127 RETAINING WALL PLAN AND ELEVATIONS
- BR128 RETAINING WALL DETAILS
- BR129 ABUTMENT NO. 1 AND 2 BACKWALL DETAILS
- BR130 ABUTMENT NO. 1 AND 2 FOOTING REINFORCEMENT
- BR131 APPROACH SLAB DETAILS
- BR132 ALUMINUM APPROACH RAILING DETAILS
- BR133 ALUMINUM BRIDGE RAILING DETAILS
- BR134 ALUMINUM BRIDGE RAILING DETAILS
- BR135 REINFORCING STEEL SCHEDULE



TEMPORARY BRIDGE INFORMATION
NOT TO SCALE

HYDROLOGIC DATA

DRAINAGE AREA: 55.4 sq.km.
 CHARACTER OF TERRAIN: HILLY
 CHARACTER & TYPE OF STREAM: DEEP, GORGE-LIKE CHANNEL
 NATURE OF STREAMBED: LEDGE
 Q2.33= 24.5 cms Q50= 95.8 cms
 Q10= 53.8 cms Q100= 17.8 cms
 Q25= 73.1 cms Q500= 184.3 cms
 DATE OF FLOOD RECORD: NONE DOCUMENTED
 WATER SURFACE ELEV.: N/A ESTIMATED DISCHARGE: N/A
 NATURAL STREAM VELOCITY @ 0.25: 7.5 mps
 ICE CONDITIONS: MINOR DEBRIS: MINOR
 DOES THE STREAM REACH MAXIMUM HIGH WATER ELEVATION RAPIDLY? NO
 IS ORDINARY RISE RAPID? NO
 IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? YES
 IF YES, DESCRIBE BACK WATER PRODUCED BY A DAM IMPONDMENT 76.2 m DOWNSTREAM
 WATERSHED STORAGE: HEADWATERS UNIFORM THROUGHOUT WATERSHED IMMEDIATELY ABOVE SITE.

EXISTING STRUCTURE

STRUCTURE TYPE: SINGLE SPAN STEEL GIRDER W/TWO CONCRETE SLABS, YEAR BUILT: 1926
 CLEAR SPAN (NORMAL TO STREAM): 14.4 m
 VERTICAL CLEARANCE ABOVE STREAMBED: 8.6 m
 WATERWAY OF FULL OPENING: 80.3 SQUARE METERS
 DISPOSITION OF STRUCTURE: REMOVE
 TYPE OF MATERIAL UNDER SUBSTRUCTURE: LEDGE
 WATER SURFACE ELEV. @ 02.33= 159.79 m VELOCITY: 3.10 mps
 Q10= 170.49 m 3.67 mps
 Q25= 170.24 m 4.28 mps
 Q50= 171.22 m 4.52 mps
 Q100= 171.55 m 4.78 mps
 LONG TERM STREAM BED CHANGES: NONE NOTED

IS THE ROADWAY OVERTOPPED BELOW THE 0100? NO FREQUENCY: _____
 RELIEF ELEVATION: _____ DISCHARGE OVER ROAD @ 0100: _____

UPSTREAM STRUCTURE: TOWN: _____ DISTANCE: _____
 HIGHWAY NO.: _____ STRUCTURE NO.: _____
 STRUCTURE TYPE: _____
 CLEAR SPAN: _____ CLEAR HEIGHT: _____
 YEAR BUILT: _____ FULL WATERWAY: _____
 DOWNSTREAM STRUCTURE: TOWN: _____ DISTANCE: _____
 HIGHWAY NO.: _____ STRUCTURE NO.: _____
 STRUCTURE TYPE: _____
 CLEAR SPAN: _____ CLEAR HEIGHT: _____
 YEAR BUILT: _____ FULL WATERWAY: _____

DESIGN CRITERIA:
 1. DESIGN LIVE LOAD AASHTO MS 22.5
 2. DESIGN SPAN 43.90 m
 3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL N/A ON LEDGE 480 kpa
 4. ALLOWABLE LOAD FOR PILING N/A TYPE N/A ESTIMATED LENGTH N/A
 5. STRUCTURAL STEEL AASHTO GRADE M270 GRADE 345W TENSION 190 MPa
 6. REINFORCING STEEL GRADE 420
 7. CONCRETE CLASS A $f_c = 30 \text{ MPa}$
 CONCRETE CLASS B $f_c = 25 \text{ MPa}$
 SILICA-FUME CONCRETE $f_c = 35 \text{ MPa}$
 *WORKING STRESS METHOD IS USED TO DESIGN THE CURVED STEEL PLATE GIRDER. THE BRIDGE SHALL BE LOAD RATED USING THE LOAD FACTOR METHOD.
 TRAFFIC MAINTENANCE:
 1. IS TRAFFIC TO BE MAINTAINED? YES IF YES, ON EXISTING STRUCTURE NO OR ON TEMPORARY BRIDGE YES
 2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY ONE TRAFFIC CONTROL SIGNALS REQUIRED YES
 MINIMUM CLEAR SPAN (NORMAL TO STREAM): 25 m VERTICAL CLEARANCE ABOVE STREAMBED: 5.85 m (TO CLEAR HISTORIC STONEWALL)
 WATERWAY OF FULL OPENING: 55.9 sq. m
 ARE SIDEWALKS REQUIRED? NO IF SO, ON WHAT SIDE? _____
 STRUCTURE TYPE: _____

YEAR	ADT	DHV	% D	% T	ADTT
2001	4600	630	55	2	30
2021	6100	800	55	2	320

LOADING LEVELS (LOAD FACTOR)	TRUCK						
	M	MS	3S2	6 AXLE	3A STR.	4A STR.	5A SEMI
INVENTORY A =							
POSTED A =							
OPERATING A =							

RF = $\frac{M}{M_{LL}}$ = 1.3
 $A = M_{LL}$

PROPOSED STRUCTURE

STRUCTURE TYPE: SIMPLE SPAN MULTI-STEEL CURVED GIRDER
 CLEAR SPAN (NORMAL TO STREAM): 16.5 m
 VERTICAL CLEARANCE ABOVE STREAMBED: 5.7 m
 WATERWAY OF FULL OPENING: 84.2 SQUARE METERS
 WATER SURFACE ELEV. @ 02.33= 159.79 m VELOCITY: 3.91 mps
 Q10= 170.47 m 5.06 mps
 Q25= 170.84 m 5.63 mps
 Q50= 171.20 m 6.18 mps
 Q100= 171.66 m 6.61 mps
 IS THE ROADWAY OVERTOPPED BELOW THE 0100? NO FREQUENCY: _____
 RELIEF ELEVATION: _____ DISCHARGE OVER ROAD @ 0100: _____
 MINIMUM LOW ELEVATION OF SUPERSTRUCTURE: 174.1 m
 VERTICAL CLEARANCE @ 0100: 2.44 m
 SCOUR: 0.0 m
 REQUIRED CHANNEL PROTECTION: NONE

PERMIT INFORMATION

AVERAGE DAILY FLOW: 1.2 cms
 ORDINARY LOW WATER: 0.6 cms DEPTH: 0.3 m
 ORDINARY HIGH WATER: 14.2 cms DEPTH: 0.9 m

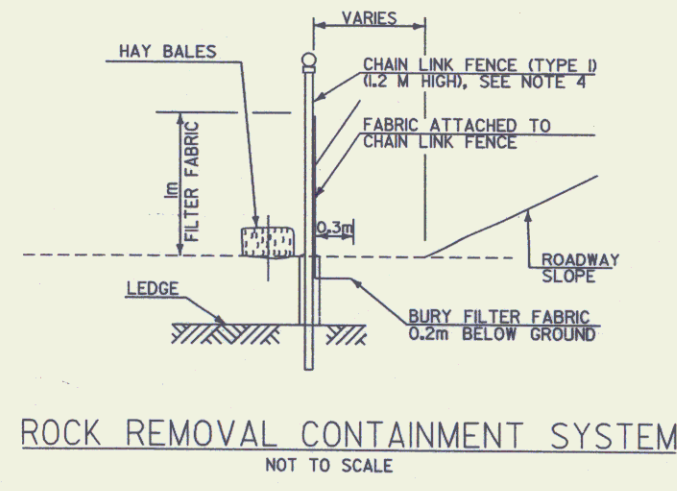
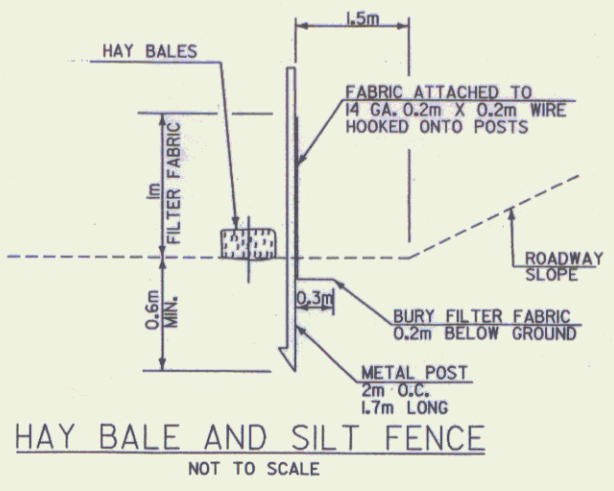
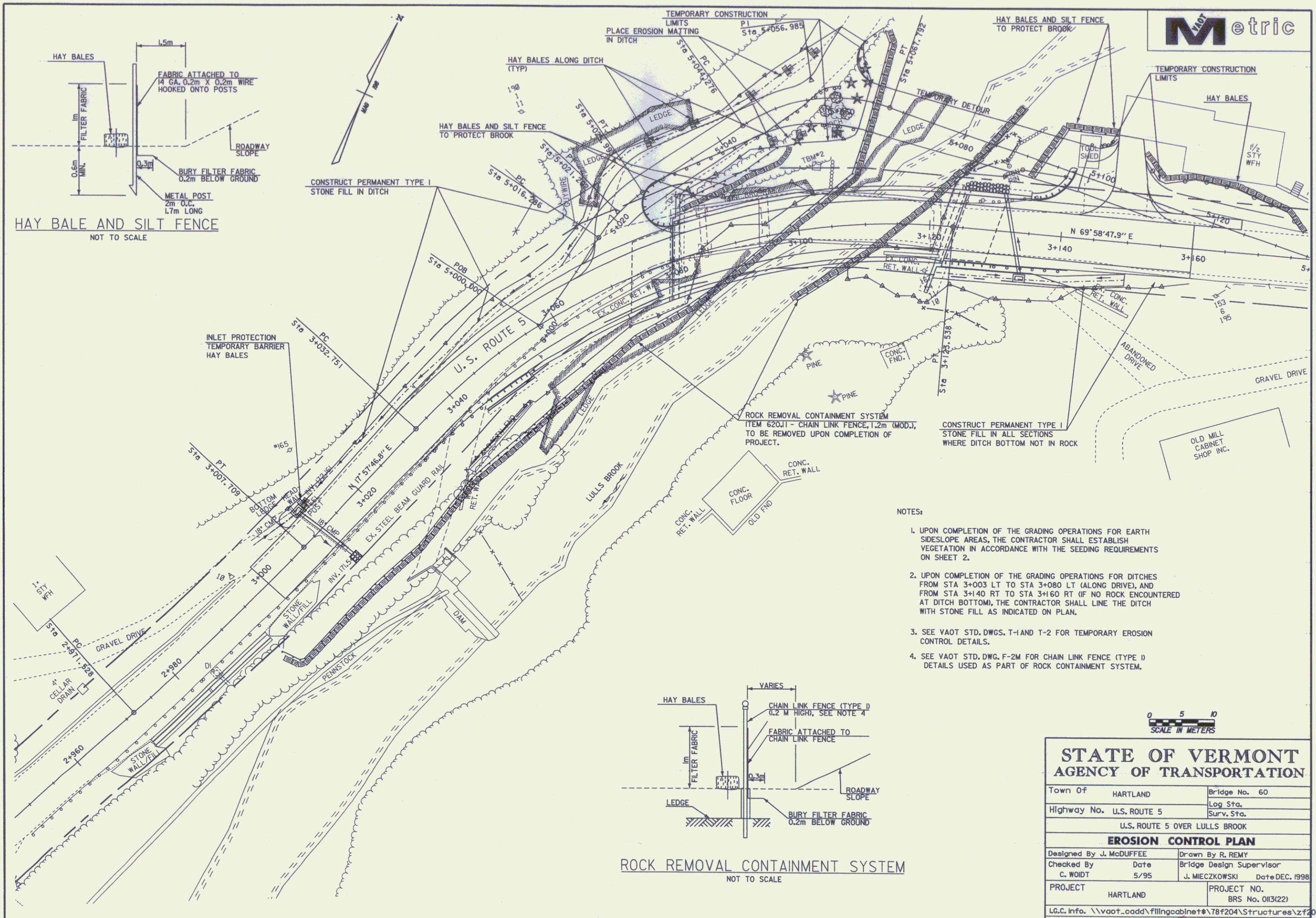
ADDITIONAL COMMENTS

WATER ELEVATIONS INDICATED ARE AT THE APPROXIMATE LOCATION OF THE UPSTREAM FACE OF THE PROPOSED BRIDGE (SECT. 4.0)
 VELOCITY HAS BEEN DETERMINED BY PERFORMING A NORMAL DEPTH CALCULATION THROUGH THE BRIDGE REACH UTILIZING THE REGULAR CHANNEL GEOMETRY AND ACTUAL CHANNEL SLOPE.



STATE OF VERMONT
AGENCY OF TRANSPORTATION

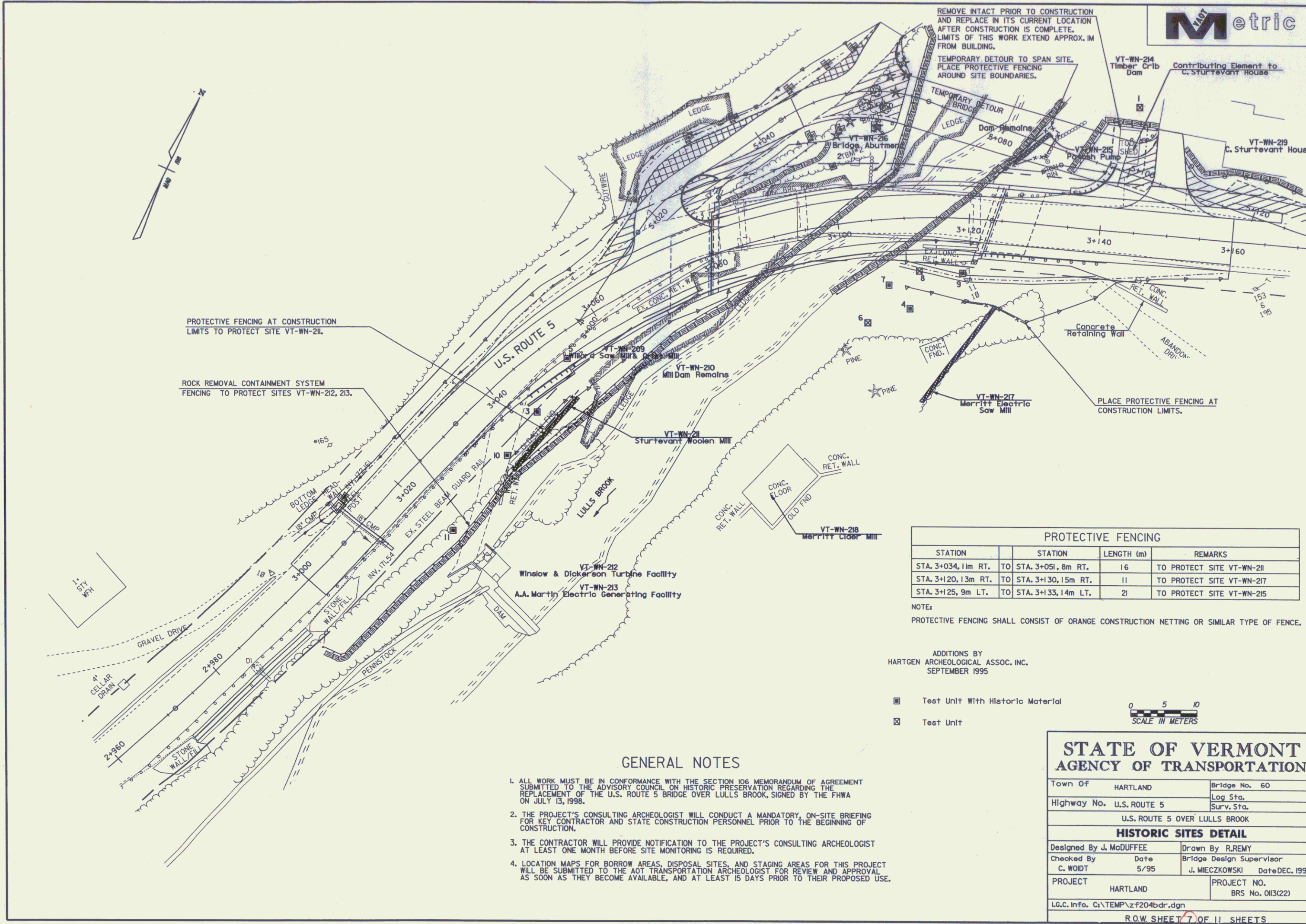
Town Of: HARTLAND Bridge No. 60
 Highway No.: U.S. ROUTE 5 Log. Sta. _____
 U.S. ROUTE 5 OVER LULLS BROOK
PRELIMINARY INFORMATION SHEET
 Designed By: S. BAKI 12/98 Drawn By: W. GAYNOR 12/98
 Checked By: S. BAKI Date: 12/98 Bridge Design Supervisor: J. MECZKOWSKI Date 12/98
 PROJECT: HARTLAND PROJECT NO.: BRS No. 0113(22)
 L.G.C. Info: p:\users\j9145621\struct\zf204mpl.dgn
 R.O.W. SHEET 5 OF 11 SHEETS



- NOTES:
- UPON COMPLETION OF THE GRADING OPERATIONS FOR EARTH SIDESLOPE AREAS, THE CONTRACTOR SHALL ESTABLISH VEGETATION IN ACCORDANCE WITH THE SEEDING REQUIREMENTS ON SHEET 2.
 - UPON COMPLETION OF THE GRADING OPERATIONS FOR DITCHES FROM STA 3+003 LT TO STA 3+080 LT (ALONG DRIVE), AND FROM STA 3+140 RT TO STA 3+160 RT (IF NO ROCK ENCOUNTERED AT DITCH BOTTOM), THE CONTRACTOR SHALL LINE THE DITCH WITH STONE FILL AS INDICATED ON PLAN.
 - SEE VAOT STD. DWGS. T-1 AND T-2 FOR TEMPORARY EROSION CONTROL DETAILS.
 - SEE VAOT STD. DWG. F-2M FOR CHAIN LINK FENCE (TYPE D) DETAILS USED AS PART OF ROCK CONTAINMENT SYSTEM.



STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of	HARTLAND	Bridge No.	60
Highway No.	U.S. ROUTE 5	Log Sta.	
		Surv. Sta.	
U.S. ROUTE 5 OVER LULLS BROOK			
EROSION CONTROL PLAN			
Designed By	J. McDUFFEE	Drawn By	R. REMY
Checked By	C. WOODT	Date	5/95
		Bridge Design Supervisor	J. MECZKOWSKI
		Date	DEC. 1998
PROJECT	HARTLAND	PROJECT NO.	BRS No. 0113(22)
L.C.C. Info. \\vaot_cadd\fillingcabinet\78f204\structures\z7204			
R.O.W. SHEET 6 OF 11 SHEETS			



PROTECTIVE FENCING AT CONSTRUCTION LIMITS TO PROTECT SITE VT-WN-211.

ROCK REMOVAL CONTAINMENT SYSTEM FENCING TO PROTECT SITES VT-WN-212, 213.

REMOVE INTACT PRIOR TO CONSTRUCTION AND REPLACE IN ITS CURRENT LOCATION AFTER CONSTRUCTION IS COMPLETE. LIMITS OF THIS WORK EXTEND APPROX. 1M FROM BUILDING.

TEMPORARY DETOUR TO SPAN SITE. PLACE PROTECTIVE FENCING AROUND SITE BOUNDARIES.

VT-WN-214 Timber Crib Dam
Contributing Element to C. Sturtevant House

VT-WN-219 C. Sturtevant House

Concrete Retaining Wall

PLACE PROTECTIVE FENCING AT CONSTRUCTION LIMITS.

VT-WN-217 Merritt Electric Saw Mill

VT-WN-218 Merritt Crib Mill
CONC. RET. WALL
CONC. FLOOR
BOLD FND

VT-WN-212 Winslow & Dickerson Turbine Facility
VT-WN-213 A.A. Martin Electric Generating Facility

PROTECTIVE FENCING			
STATION	STATION	LENGTH (m)	REMARKS
STA. 3+034, 11m RT.	TO STA. 3+051, 8m RT.	16	TO PROTECT SITE VT-WN-211
STA. 3+120, 13m RT.	TO STA. 3+130, 15m RT.	11	TO PROTECT SITE VT-WN-217
STA. 3+125, 9m LT.	TO STA. 3+133, 14m LT.	21	TO PROTECT SITE VT-WN-215

NOTE:
PROTECTIVE FENCING SHALL CONSIST OF ORANGE CONSTRUCTION NETTING OR SIMILAR TYPE OF FENCE.

ADDITIONS BY
HARTGEN ARCHEOLOGICAL ASSOC. INC.
SEPTEMBER 1995

- Test Unit With Historic Material
- ⊠ Test Unit



GENERAL NOTES

1. ALL WORK MUST BE IN CONFORMANCE WITH THE SECTION 106 MEMORANDUM OF AGREEMENT SUBMITTED TO THE ADVISORY COUNCIL ON HISTORIC PRESERVATION REGARDING THE REPLACEMENT OF THE U.S. ROUTE 5 BRIDGE OVER LULLS BROOK, SIGNED BY THE FHWA ON JULY 13, 1998.
2. THE PROJECT'S CONSULTING ARCHEOLOGIST WILL CONDUCT A MANDATORY, ON-SITE BRIEFING FOR KEY CONTRACTOR AND STATE CONSTRUCTION PERSONNEL PRIOR TO THE BEGINNING OF CONSTRUCTION.
3. THE CONTRACTOR WILL PROVIDE NOTIFICATION TO THE PROJECT'S CONSULTING ARCHEOLOGIST AT LEAST ONE MONTH BEFORE SITE MONITORING IS REQUIRED.
4. LOCATION MAPS FOR BORROW AREAS, DISPOSAL SITES, AND STAGING AREAS FOR THIS PROJECT WILL BE SUBMITTED TO THE AOT TRANSPORTATION ARCHEOLOGIST FOR REVIEW AND APPROVAL AS SOON AS THEY BECOME AVAILABLE, AND AT LEAST 15 DAYS PRIOR TO THEIR PROPOSED USE.

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of	HARTLAND	Bridge No.	60
Highway No.	U.S. ROUTE 5	Log Sta.	
		Surv. Sta.	
HISTORIC SITES DETAIL			
Designed By	J. McDUFFEE	Drawn By	R. REMY
Checked By	C. WODT	Date	5/95
		Bridge Design Supervisor	J. MIECZKOWSKI Date DEC. 1998
PROJECT	HARTLAND	PROJECT NO.	BRS No. 013(22)
LG.C. Info. C:\TEMP\z\204bdr.dgn			
R.O.W. SHEET 7 OF 11 SHEETS			



**STATE OF VERMONT
AGENCY OF TRANSPORTATION
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	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	FIRST CONGREGATIONAL CHURCH OF HARTLAND, VERMONT, INC.	9,10	3+000.00 CL	3+056.48 CL	0.059 HA±		ALL R. T. & I.	DCD	11-25-03	HARTLAND	147	543-544	U.S. RT. 5 (0.15A±)	1	8,10	PARCEL NO. 3 JAMES. EXTENDED ALL R.T. & I. TO INCLUDE PART OF LULLS BROOK TO THE P/L. CORRECTED RUNNING DISTANCES, FLAGS, AND RECALCULATED TAKE AREA. PER C.O. 9228.	04-08-02	G. J. F.	R. P. D.
2A	MARTINSVILLE HYDRO CORPORATION	9,10	3+033.57 RT. 3+033.57 RT. 3+028.00 RT.	3+109.36 RT. 3+109.36 RT.	0.038 HA±		EXCEPT & RESERVE INSTALL (T)	WD	09-22-03	HARTLAND	145	527-529	(0.09A±) FLOWAGE RIGHTS GEOROID NET	2	8,10	PARCEL NO. 5 TOWN OF HARTLAND. EXTENDED ALL R.T. & I. TO INCLUDE PART OF LULLS BROOK TO THE P/L. CORRECTED RUNNING DISTANCES, FLAGS, AND RECALCULATED TAKE AREA. PER C.O. 9223.	04-08-02	G. J. F.	R. P. D.
2B		9,10	3+000.00 CL 3+011.47 RT. 3+023.00 RT.	3+117.58 LT. 3+076.56 RT. 3+012.87 RT. 3+046.00 RT.	0.081 HA±		ALL R. T. & I. CONST. (T) 0.041 HA± DIT. & DR. (P) 0.3 S.M.± REMOVE & RESET (T)						U.S. RT. 5 (0.20A±) INCLUDES EROSION CONTROL WITH ROCK REMOVAL CONTAINMENT SYSTEM (0.10A±) (3.2 S.F.±) FENCE	3	8,10	PARCEL NO. 2 MARTINSVILLE HYDRO CORPORATION. CHANGE ENDING STA. OF ALL R.T. & I. ON PARCEL 2B FROM 3+117.21 CL TO 3+117.58 LT.; 0.081 HA±; (0.20A±). PER C.O. 9232.	04-15-02	M. J. R.	R. P. D.
3	JAMES, LOUISE M.	10	3+056.48 LT. 3+068.63 LT.	3+118.88 LT. 3+132.93 LT.	0.048 HA±		ALL R. T. & I. DETOUR (T) 0.093 HA±	WD	09-22-03	HARTLAND	145	524-525	U.S. RT. 5 (0.12A±) INCLUDES EROSION CONTROL WITH ROCK REMOVAL CONTAINMENT SYSTEM LANDSCAPING (0.23A±) MM 1359, 5 M (16.4')	4	8,10	PARCEL NO. 6 TURNER. CHANGE BEGINNING STA. OF ALL R.T. & I. FROM 3+119.01 CL TO 3+119.31 LT. PER C.O. 9231.	04-15-02	M. J. R.	R. P. D.
4A	COCKWILL, NEIL J & HEIDI P.	10	3+103.55 RT. 3+112.21 RT. 3+114.78 RT. 3+120.13 RT.	3+131.54 RT. 3+129.55 RT. 3+121.19 RT. 3+130.15 RT.	80.3 S.M.±		DRIVE (T) INSTALL & MAINTAIN (P) INSTALL (T)	WD	03-20-03	HARTLAND	140	257-258	(864 S.F.±) (187.3 S.F.±) (33.4 S.F.±) PROTECTIVE FENCE 11 M± (36.1')	5	8,9	PARCEL NO. 2 MARTINSVILLE HYDRO CORPORATION. ADD REMOVE & RESET (T) FOR FENCE AT 3+023 RT. ~ 3+046 RT. PER C.O. 9230.	04-15-02	M. J. R.	R. P. D.
4B		10	3+109.36 RT.	3+130.74 RT.	0.012 HA±		ALL R. T. & I.	WD	03-20-03	HARTLAND	140	257-258	U.S. RT. 5 (0.03A±)	6	ALL	PARCEL NO. 5 TOWN OF HARTLAND. ADD PARCEL 5A CONSISTING OF EASE. (T) AT STA. 3+212.21 LT. ~ 3+239.98 LT.; 71.9 SM±; INSTALL PARKING AREA FOR PARCEL 6. BY OPTION ONLY. CREATE NEW SHEET 11. PER C.O. 9251.	09-11-02	G. J. F.	R. P. D.
5	TOWN OF HARTLAND	10	3+110.41 LT. 3+123.57 LT.	3+128.38 LT. 3+146.71 LT.	70.43 S.M.±		ALL R. T. & I. DETOUR (T) 0.012 HA±	DCD	08-01-03	HARTLAND	144	196-197	U.S. RT. 5 (758.1 S.F.±) INCLUDES EROSION CONTROL WITH ROCK REMOVAL CONTAINMENT SYSTEM (0.03A±) (24.2 S.F.±) PROTECTIVE FENCE 21 M± (63.9')	7	ALL	PARCEL NO. 6 TURNER. ADD PARCEL 6A CONSISTING OF EASE. (T) AT STA. 3+205.12 LT. ~ 3+212.21 LT.; 17.7 SM±; INSTALL PARKING AREA FOR PARCEL 6. BY OPTION ONLY. CREATE NEW SHEET 11. PER C.O. 9252.	09-11-02	G. J. F.	R. P. D.
5A		11	3+212.21 LT.	3+239.98 LT.			EASE. (T) 71.9 S.M.±						INSTALL PARKING AREA FOR PARCEL #6 BY OPTION ONLY (774 S.F.±)						
6	TURNER, BRENT A. & ARLENE J.	10	3+119.31 CL 3+128.38 LT. 3+128.38 LT.	3+160.00 CL 3+140.36 LT. 3+174.56 LT.	0.028 HA±		ALL R. T. & I. SLOPE (T) 13.7 S.M.± DETOUR (T) 0.024 HA±	WD	02-25-04	HARTLAND	149	2-4	U.S. RT. 5 (0.07A±) (147.5 S.F.±) INCLUDES EROSION CONTROL (0.06A±) APPROACH RAIL SHED MM 1401, 4.4 M (14.4')			ELECTRONIC FILES TO STRUCTURES	2-27-04		
6A		11	3+205.12 LT.	3+212.21 LT.			EASE. (T) 17.7 S.M.±						INSTALL PARKING AREA FOR PARCEL #6 BY OPTION ONLY (191 S.F.±)						
7A	GEST, DOUGLAS M.	10	3+130.74 RT.	3+160.00 RT.	91.25 S.M.±			WD	07-30-03	HARTLAND	144	169-170	(982 S.F.±) INCLUDES CONCRETE WALL						
7B		10	3+128.83 CL	3+160.00 CL	0.023 HA±		ALL R. T. & I.						U.S. RT. 5 (0.057A±)						
8	CENTRAL VERMONT PUBLIC SERVICE CORP.												UTILITY						
9	VERMONT TELEPHONE COMPANY, INC.												UTILITY						
10	VERIZON NEW ENGLAND, INC.												UTILITY						

ACCT.mryan
IP_PWPdms0502vr-f204d.dgn
DATE PLOTTED 03-MAY-2004

DR. (P)- DRAINAGE RIGHT
DIT. (P)- DITCHING RIGHT
CH. (P)- CHANNEL RT.
DRIVE (T)- DRIVE RIGHT
CUL. (P)- CULVERT RIGHT
[W]- WATER SOURCES

PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINE
TAKING WITH ACCESS
PERMANENT EASEMENT
TEMPORARY EASEMENT

LEGEND

--- C&T (P) --- CLEARING & TRIMMING
... P? (P) ... CLEAR ZONE
--- CONST (T) --- CONSTRUCTION EASEMENT
SR SR SLOPE RIGHTS
P PROPERTY LINE
L TOP OF CUT
O TOE OF SLOPE

--- UE (P) --- PERMANENT UTILITY EASEMENT

APPROVED: ROGER P. DUMAS DATE: 04/30/01
CHIEF, PLANS & TITLES

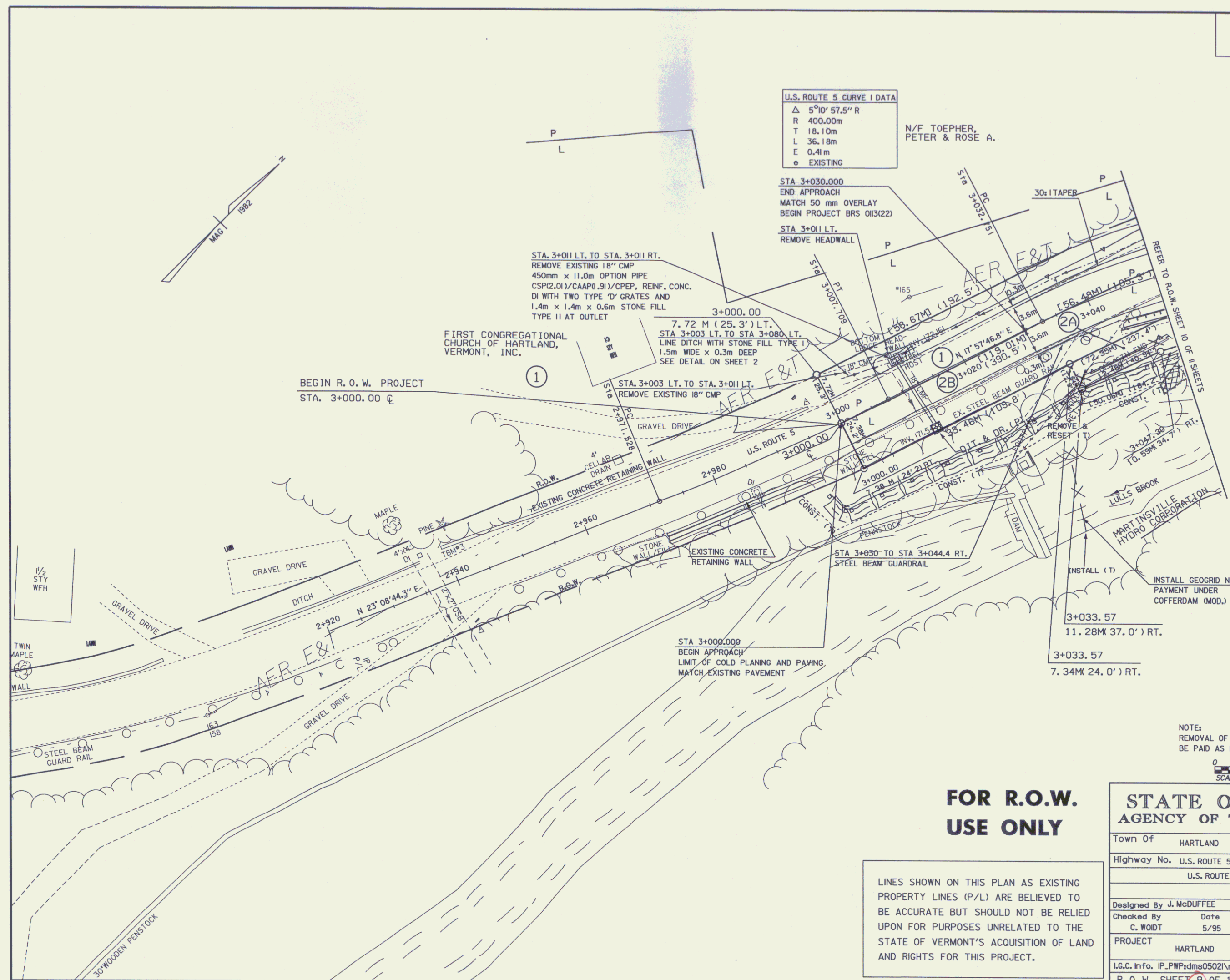
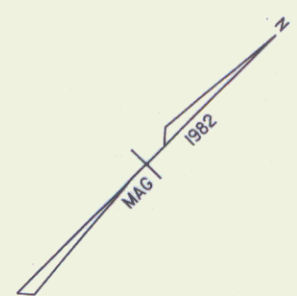
R. O. W. PLANS

HARTLAND
BRS 0113 (22)
R. O. W. SHEET 8 OF 11 SHEETS
SHEET 9 OF 86

U.S. ROUTE 5 CURVE 1 DATA

Δ	5°10' 57.5" R
R	400.00m
T	18.10m
L	36.18m
E	0.41m
e	EXISTING

N/F TOEPHER,
PETER & ROSE A.



NOTE:
REMOVAL OF EXISTING CONCRETE PAVEMENT WILL
BE PAID AS ITEM 203J6, SOLID ROCK EXCAVATION

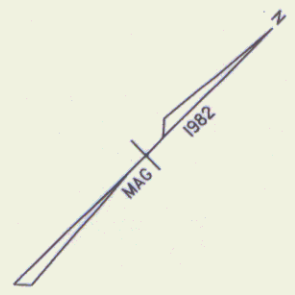
0 5 10
SCALE IN METERS

**FOR R.O.W.
USE ONLY**

LINES SHOWN ON THIS PLAN AS EXISTING
PROPERTY LINES (P/L) ARE BELIEVED TO
BE ACCURATE BUT SHOULD NOT BE RELIED
UPON FOR PURPOSES UNRELATED TO THE
STATE OF VERMONT'S ACQUISITION OF LAND
AND RIGHTS FOR THIS PROJECT.

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of	HARTLAND	Bridge No.	60
Highway No.	U.S. ROUTE 5	Log Sta.	
		Surv. Sta.	
U.S. ROUTE 5 OVER LULLS BROOK			
PLAN			
Designed By	J. McDUFFEE	Drawn By	R. REMY
Checked By	C. WOIDT	Date	5/95
		Bridge Design Supervisor	J. MIECZKOWSKI
		Date	DEC. 1998
PROJECT	HARTLAND	PROJECT NO.	BRS No. 013(22)
I.G.C. Info. IP_PWP\dms0502\vf204zzz.dgn			
R. O. W. SHEET 9 OF 11 SHEETS SHEET 10 OF 86			



U.S. ROUTE 5 CURVE 2 DATA
 Δ 52°01' 01" R
 R 100.00m
 T 48.79m
 L 90.79m
 E 11.27m
 e 0.078

COMPLETE PAVED DRIVEWAY FOLLOWING DETOUR REMOVAL
 (PAID UNDER UNIT ITEMS) USE 450mm SUBBASE AND 90mm
 PAVEMENT TO MATCH DETOUR DEPTH

STA 3+003 LT TO STA 3+080 LT
 LINE DITCH WITH STONE FILL TYPE I
 1.5m WIDE x 0.3m DEEP
 SEE DETAIL ON SHEET 2

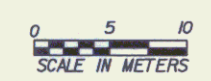
STA 3+050
 REFER TO ROW, SHEET 3 OF 5 SHEETS

NOTES:
 1. REMOVAL OF EXISTING CONCRETE PAVEMENT WILL
 BE PAID AS ITEM 203.16, SOLID ROCK EXCAVATION.
 2. FOR REMOVAL OF STRUCTURE, SEE GENERAL NOTES
 23 AND 24 ON SHEET 27.

DRIVEWAY TABLE			
DRIVEWAY LOCATION	RADIUS	WIDTH	REMARKS
STA 3+075 LT	6m	5m	COMPLETE PAVING FOLLOWING DETOUR REMOVAL
STA 3+150 LT	6m	4.4m	PAVED

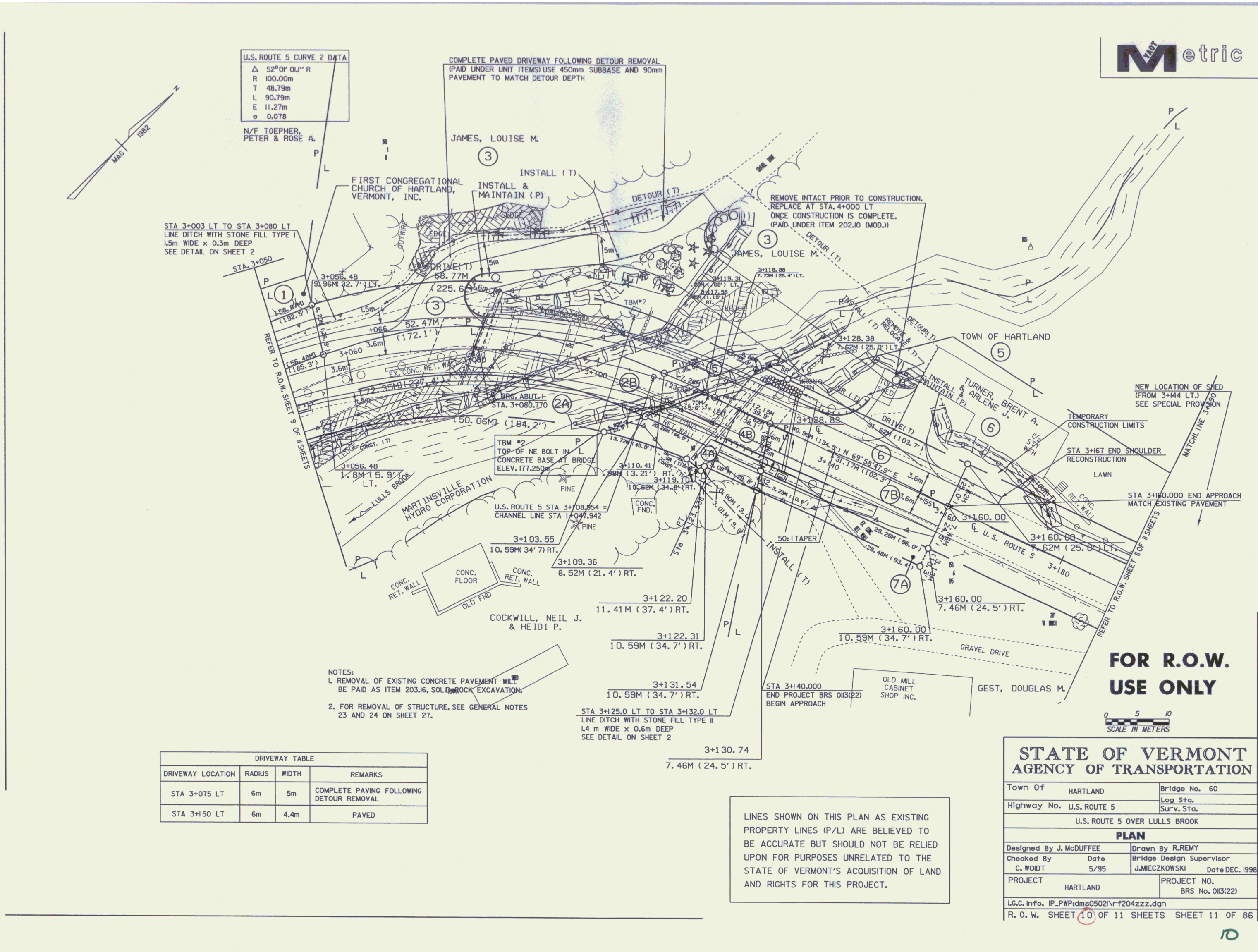
LINES SHOWN ON THIS PLAN AS EXISTING
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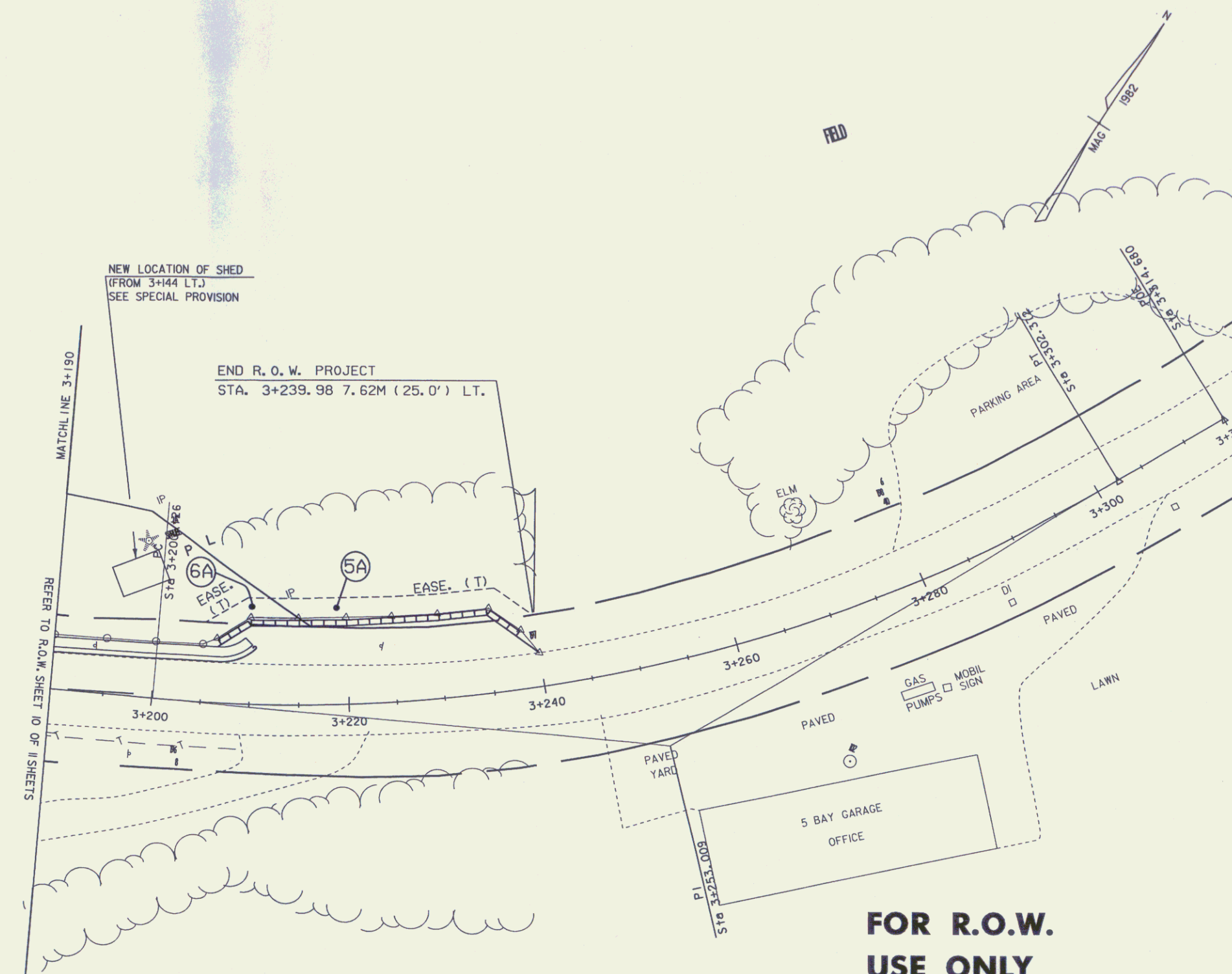
**FOR R.O.W.
 USE ONLY**



**STATE OF VERMONT
 AGENCY OF TRANSPORTATION**

Town Of	HARTLAND	Bridge No.	60
Highway No.	U.S. ROUTE 5	Log Sta.	
		Surv. Sta.	
U.S. ROUTE 5 OVER LULLS BROOK			
PLAN			
Designed By	J. McDUFFEE	Drawn By	R. REMY
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		Bridge Design Supervisor	J. MECZKOWSKI
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PROJECT	HARTLAND	PROJECT NO.	BRS No. 013(22)
G.C. Info. IP_PWPdms0502\vr-f204zzz.dgn			
R. O. W. SHEET 10 OF 11 SHEETS SHEET 11 OF 86			



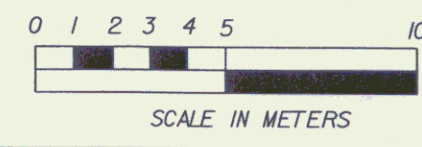


NEW LOCATION OF SHED
(FROM 3+144 LT.)
SEE SPECIAL PROVISION

END R.O.W. PROJECT
STA. 3+239.98 7.62M (25.0') LT.

MATCH LINE 3+190
REFER TO ROW SHEET 10 OF 11 SHEETS

LINES SHOWN ON THIS PLAN AS EXISTING
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**FOR R.O.W.
USE ONLY**

STATE OF VERMONT AGENCY OF TRANSPORTATION		
Town Of	HARTLAND	Bridge No. 60
Highway No.	U.S. ROUTE 5	Log Sta.
		Surv. Sta.
U.S. ROUTE 5 OVER LULLS BROOK		
Designed By		Drawn By
Checked By	Date	Bridge Design Supervisor
		Date
PROJECT	HARTLAND	PROJECT NO.
		BRS No. 013(22)
I.G.C. Info. IP_PWP:dms05021r-f204zzz.dgn		
R. O. W. SHEET 11 OF 11 SHEETS SHEET 12 OF 86		