APPROVAL
WATERSHED MANAGEMENT DIVISION

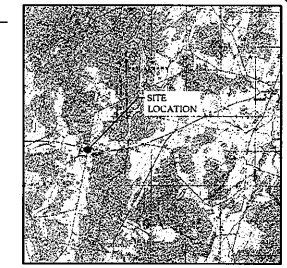
DATE 04/01/2015 1 of 3

BY C. Brunelle

THIS APPROVAL IS SUBJECT TO THE TERMS AND CONDITIONS OF STREAM ALTERATION PERMIT# SA-04-07-2015 ISSUED HEREWITH

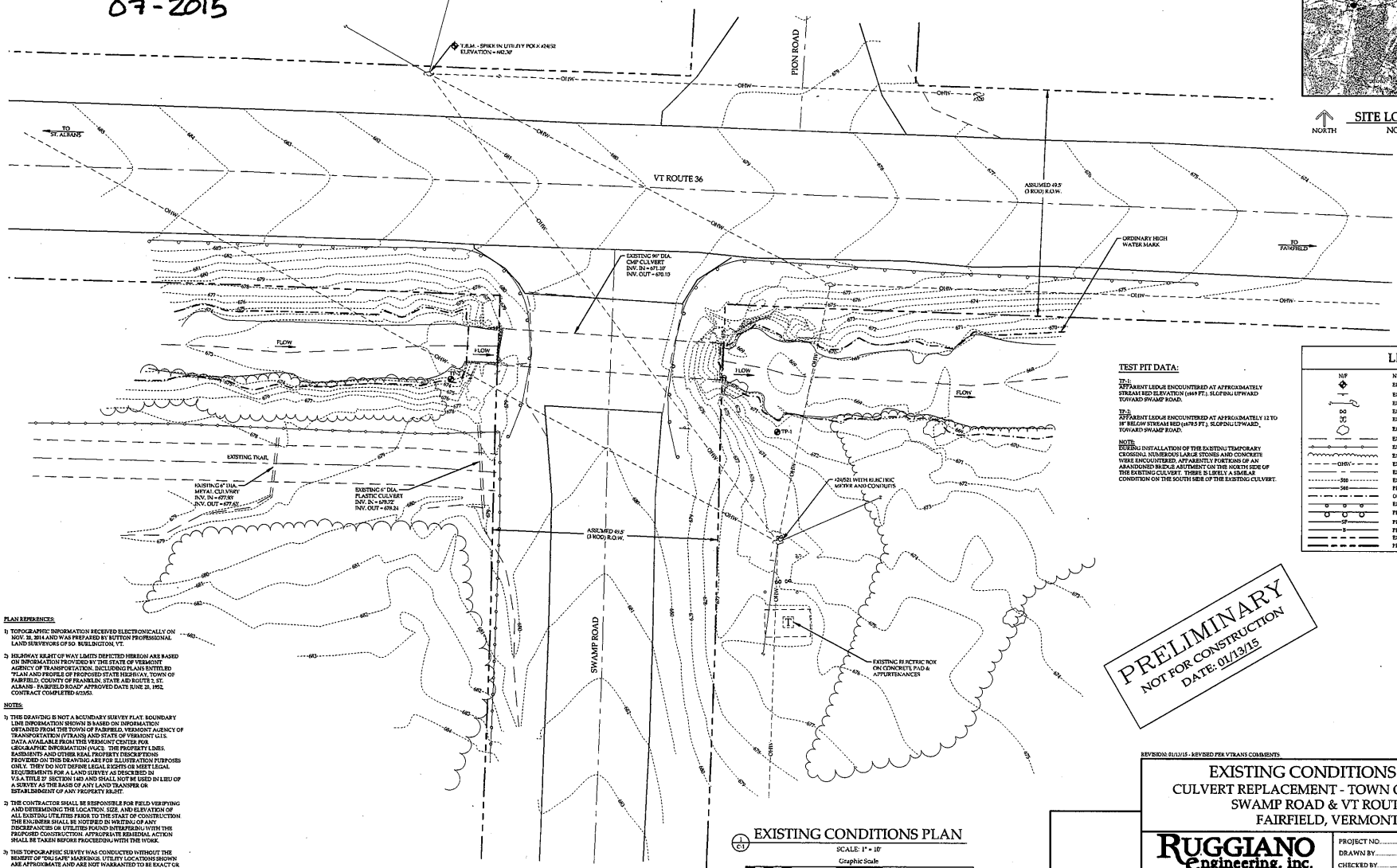
LIST OF DRAWINGS

C-1 EXISTING CONDITIONS PLAN
C-2 PROPOSED SITE PLAN
C-3 DETAILS
C-4 CONSTRUCTION SIGNAGE PLAN



NORTH

SITE LOCATION MAP
NOT TO SCALE



TEST PIT DATA:

TP-1:
APPARENT LEDGE ENCOUNTERED AT APPROXIMATELY STREAM BED ELEVATION (669 FT.). SLOPING UPWARD TOWARD SWAMP ROAD.

TP-2:
APPARENT LEDGE ENCOUNTERED AT APPROXIMATELY 12 TO 18" BELOW STREAM BED (678.5 FT.). SLOPING UPWARD TOWARD SWAMP ROAD.

NOTE:
DURING INSTALLATION OF THE EXISTING TEMPORARY CROSSING, NUMEROUS LARGE STONES AND CONCRETE WERE ENCOUNTERED. APPARENTLY PORTIONS OF AN ABANDONED BRIDGE ABUTMENT ON THE NORTH SIDE OF THE EXISTING CULVERT. THERE IS LIKELY A SIMILAR CONDITION ON THE SOUTH SIDE OF THE EXISTING CULVERT.

LEGEND

N/F	NOW OR FORMERLY OWNED BY
	ELEVATION BENCHMARK
	EXISTING SIGN
	EXISTING UTILITY POLE & GUY WIRE
	EXISTING ELECTRIC METER
	EXISTING ELECTRICAL TRANSFORMER
	EXISTING ROCK
	EXISTING STREAM CENTERLINE
	EXISTING CHAIN LINK FENCE
	EXISTING TREE LINE
OHW	EXISTING OVERHEAD WIRES
	EXISTING ROAD CENTERLINE
500	EXISTING CONTOUR
500	PROPOSED CONTOUR
	ORDINARY HIGH WATER MARK
	EXISTING GUARD RAIL
	PROPOSED GUARD RAIL
SF	PROPOSED SILT FENCE
	PROPOSED STREAM BARRIER
	EXISTING RIGHT OF WAY
	PROPOSED EASEMENT

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 01/13/15

PLAN REFERENCES:

1) TOPOGRAPHIC INFORMATION RECEIVED ELECTRONICALLY ON NOV. 20, 2014 AND WAS PREPARED BY BUTTON PROFESSIONAL LAND SURVEYORS OF SO. BURLINGTON, VT.

2) HIGHWAY RIGHT OF WAY LIMITS DEPICTED HEREON ARE BASED ON INFORMATION PROVIDED BY THE STATE OF VERMONT AGENCY OF TRANSPORTATION, INCLUDING PLANS ENTITLED "PLAN AND PROFILE OF PROPOSED STATE HIGHWAY, TOWN OF FAIRFIELD, COUNTY OF FRANKLIN, STATE AID ROUTE 2, ST. ALBANS - FAIRFIELD ROAD" APPROVED DATE JUNE 28, 1952, CONTRACT COMPLETED 6/23/53.

NOTES:

1) THIS DRAWING IS NOT A BOUNDARY SURVEY PLAT. BOUNDARY LINE INFORMATION SHOWN IS BASED ON INFORMATION OBTAINED FROM THE TOWN OF FAIRFIELD, VERMONT AGENCY OF TRANSPORTATION (VTRANS) AND STATE OF VERMONT G.I.S. DATA AVAILABLE FROM THE VERMONT CENTER FOR GEOGRAPHIC INFORMATION (VCGI). THE PROPERTY LINES, EASEMENTS AND OTHER REAL PROPERTY DESCRIPTIONS PROVIDED ON THIS DRAWING ARE FOR ILLUSTRATION PURPOSES ONLY. THEY DO NOT DEFINE LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN V.S.A. TITLE 27 SECTION 1403 AND SHALL NOT BE USED IN LIEU OF A SURVEY AS THE BASIS OF ANY LAND TRANSFER OR ESTABLISHMENT OF ANY PROPERTY RIGHT.

2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING AND DETERMINING THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES OR UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION. APPROPRIATE REMEDIAL ACTION SHALL BE TAKEN BEFORE PROCEEDING WITH THE WORK.

3) THIS TOPOGRAPHIC SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF "DIG SAFE" MARKINGS. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT "DIG SAFE" BEFORE COMMENCING ANY WORK AND SHALL PRESERVE ALL EXISTING UTILITIES NOT SPECIFIED TO BE REMOVED OR ABANDONED AS PART OF THE PROJECT.

EXISTING CONDITIONS PLAN
C-1
SCALE: 1" = 10'
Graphic Scale
10 0 10 20 40 feet

REVISION: 01/13/15 - REVISED PER VTRANS COMMENTS

EXISTING CONDITIONS PLAN
CULVERT REPLACEMENT - TOWN OF FAIRFIELD
SWAMP ROAD & VT ROUTE 36
FAIRFIELD, VERMONT

RUGGIANO engineering, inc.
5 LAKE STREET
ST. ALBANS, VERMONT 05478
PHONE - (802) 524-9300 FAX - (802) 524-9700
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PROJECT NO. 14075
DRAWN BY REI
CHECKED BY SHR
SCALE 1" = 10'
DATE 12/23/14

SHEET NO. C-1
1 OF 4 SHEETS

APPROVAL
WATERSHED MANAGEMENT DIVISION

DATE 4/1/2015 2 of 3

BY C. Brunelle

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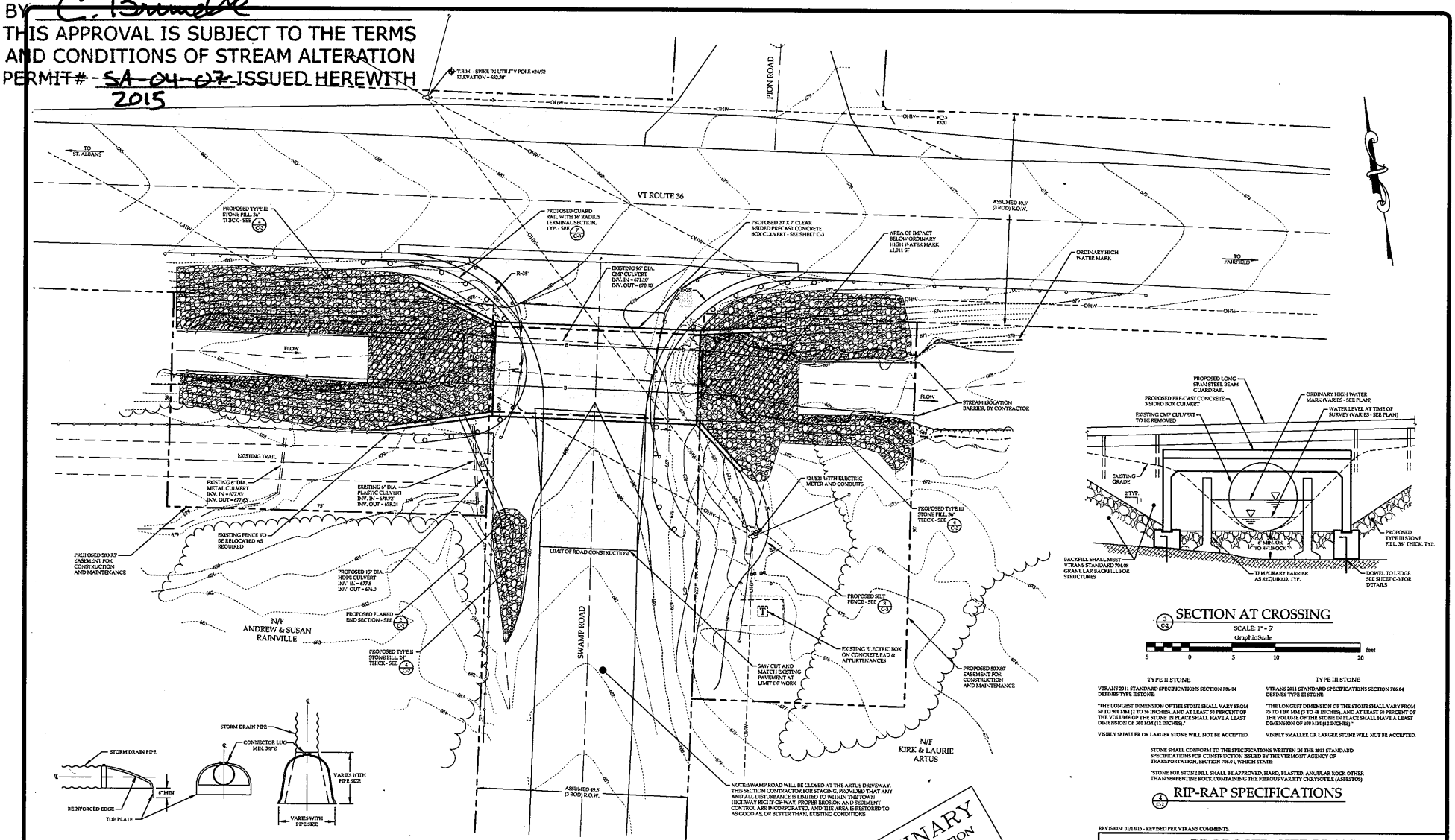

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 01/13/15

PROPOSED SITE PLAN

SCALE: 1" = 10'

Graphic Scale

10 0 10 20 40 feet

SECTION AT CROSSING

SCALE: 1" = 5'

Graphic Scale

5 0 5 10 20 feet

TYPE II STONE

VTRANS 2011 STANDARD SPECIFICATIONS SECTION 706.04 DEFINES TYPE II STONE:

"THE LONGEST DIMENSION OF THE STONE SHALL VARY FROM 50 TO 400 MM (2 TO 16 INCHES), AND AT LEAST 50 PERCENT OF THE VOLUME OF THE STONE IN PLACE SHALL HAVE A LEAST DIMENSION OF 300 MM (12 INCHES)."

VISIBLY SMALLER OR LARGER STONE WILL NOT BE ACCEPTED.

TYPE III STONE

VTRANS 2011 STANDARD SPECIFICATIONS SECTION 706.04 DEFINES TYPE III STONE:

"THE LONGEST DIMENSION OF THE STONE SHALL VARY FROM 75 TO 1200 MM (3 TO 48 INCHES), AND AT LEAST 50 PERCENT OF THE VOLUME OF THE STONE IN PLACE SHALL HAVE A LEAST DIMENSION OF 300 MM (12 INCHES)."

VISIBLY SMALLER OR LARGER STONE WILL NOT BE ACCEPTED.

STONE SHALL CONFORM TO THE SPECIFICATIONS WRITTEN IN THE 2011 STANDARD SPECIFICATIONS FOR CONSTRUCTION ISSUED BY THE VERMONT AGENCY OF TRANSPORTATION, SECTION 706.04, WHICH STATE:

"STONE FOR STONE FILL SHALL BE APPROVED, HARD, BLASTED, ANGULAR ROCK OTHER THAN SERPENTINE ROCK CONTAINING THE FIBROUS VARIETY CHRYSOTILE (ASBESTOS)

RIP-RAP SPECIFICATIONS

NOTE:

1) FLARED END SECTIONS SHALL BE INSTALLED AT ALL LOCATIONS WHERE STORM PIPE(S) IS DAYLIGHTED EXCEPT WHERE HEADWALLS ARE TO BE CONSTRUCTED AS SHOWN ON THE SITE PLANS.

2) END SECTIONS SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS, SUBJECT TO THE APPROVAL OF THE ENGINEER.

TYPICAL FLARED END SECTION DETAIL

NOT TO SCALE

REVISION: 01/13/15 - REVISED PER VTRANS COMMENTS

PROPOSED SITE PLAN
CULVERT REPLACEMENT - TOWN OF FAIRFIELD
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FAIRFIELD, VERMONT

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DRAWN BY REI
CHECKED BY SHR
SCALE 1" = 10'
DATE 12/23/14

SHEET NO. C-2

1 OF 4 SHEETS

APPROVAL
WATERSHED MANAGEMENT DIVISION

DATE 4/1/2015 3 of 3

BY C. Brunelle

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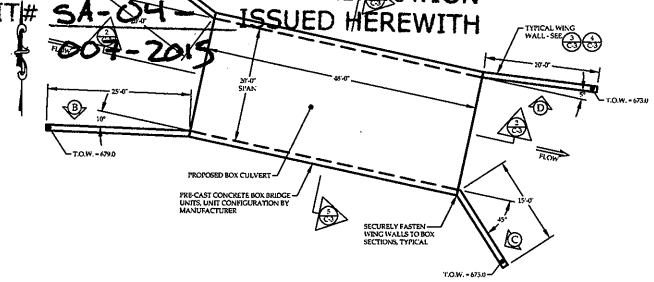
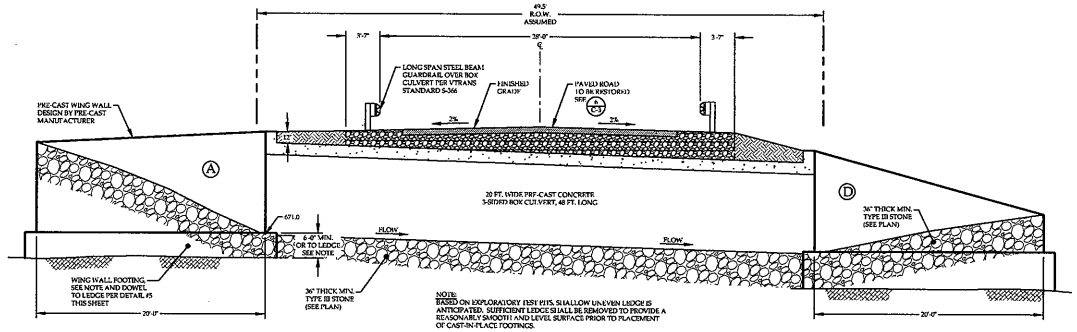
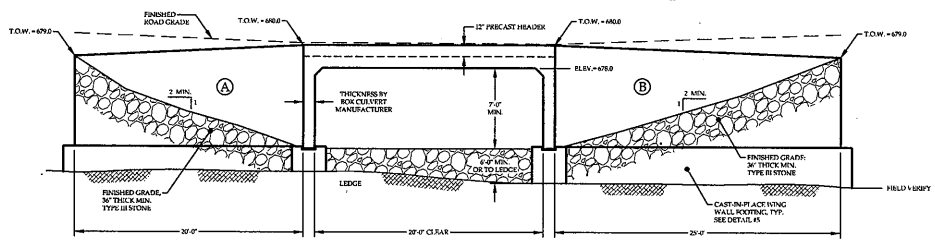


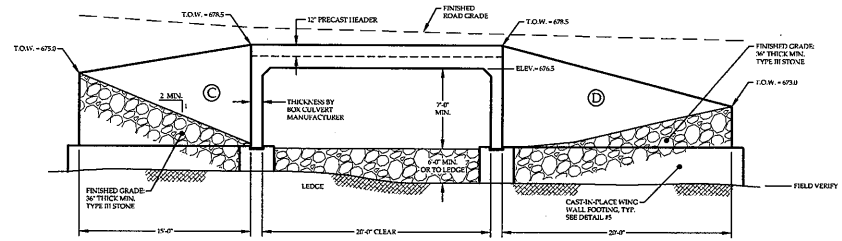
1 C-3 CULVERT PLAN VIEW DETAIL
SCALE: 1" = 10'



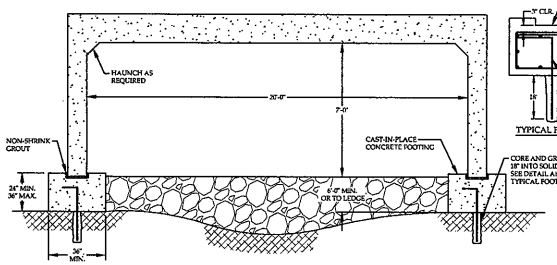
2 C-3 SECTION AT CROSSING
SCALE: 1" = 5'

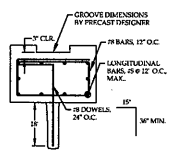


3 C-3 WEST END ELEVATIONS
SCALE: 1" = 5'



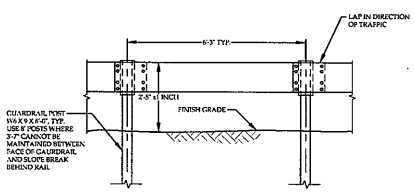
4 C-3 EAST END ELEVATIONS
SCALE: 1" = 5'

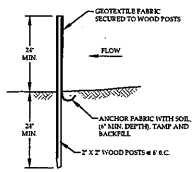




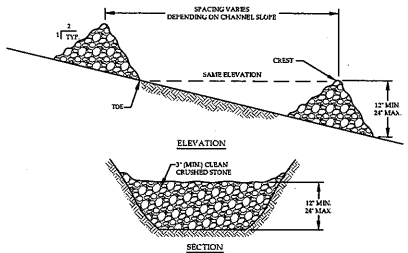
TYPICAL FOOTING REINFORCING
SCALE: 1" = 2"

5 C-3 3-SIDED BOX CULVERT SECTION
SCALE: 1" = 3'

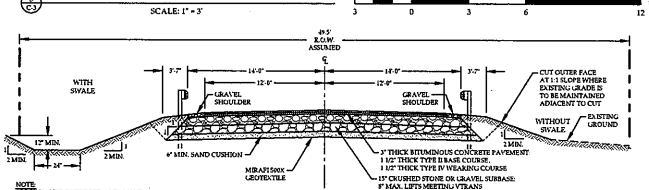




6 C-3 SILT FENCE DETAIL
NOT TO SCALE

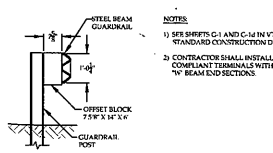


9 C-3 STONE CHECK DAM
NOT TO SCALE



NOTE:
ALL UNPAVED DISTURBED AREAS NOT RECEIVING RIP RAP, PAVING OR GRAVEL SURFACE SHALL BE RESTORED USING 4" TOPSOIL, SEED, FERTILIZER AND STRAW MULCH.

7 C-3 TYPICAL PAVED ROAD SECTION
NOT TO SCALE



NOTES:
1) SEE SHEETS C-1 AND C-1d IN VTRANS STANDARD CONSTRUCTION DETAILS.
2) CONTRACTOR SHALL INSTALL VTRANS COMPLIANT TERMINALS WITH ROUNDED "N" BEAM END SECTIONS.

8 C-3 STEEL BEAM GUARDRAIL
SCALE: 1" = 2'

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DETAILS
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SHEET NO. C-3
3 OF 4 SHEETS