

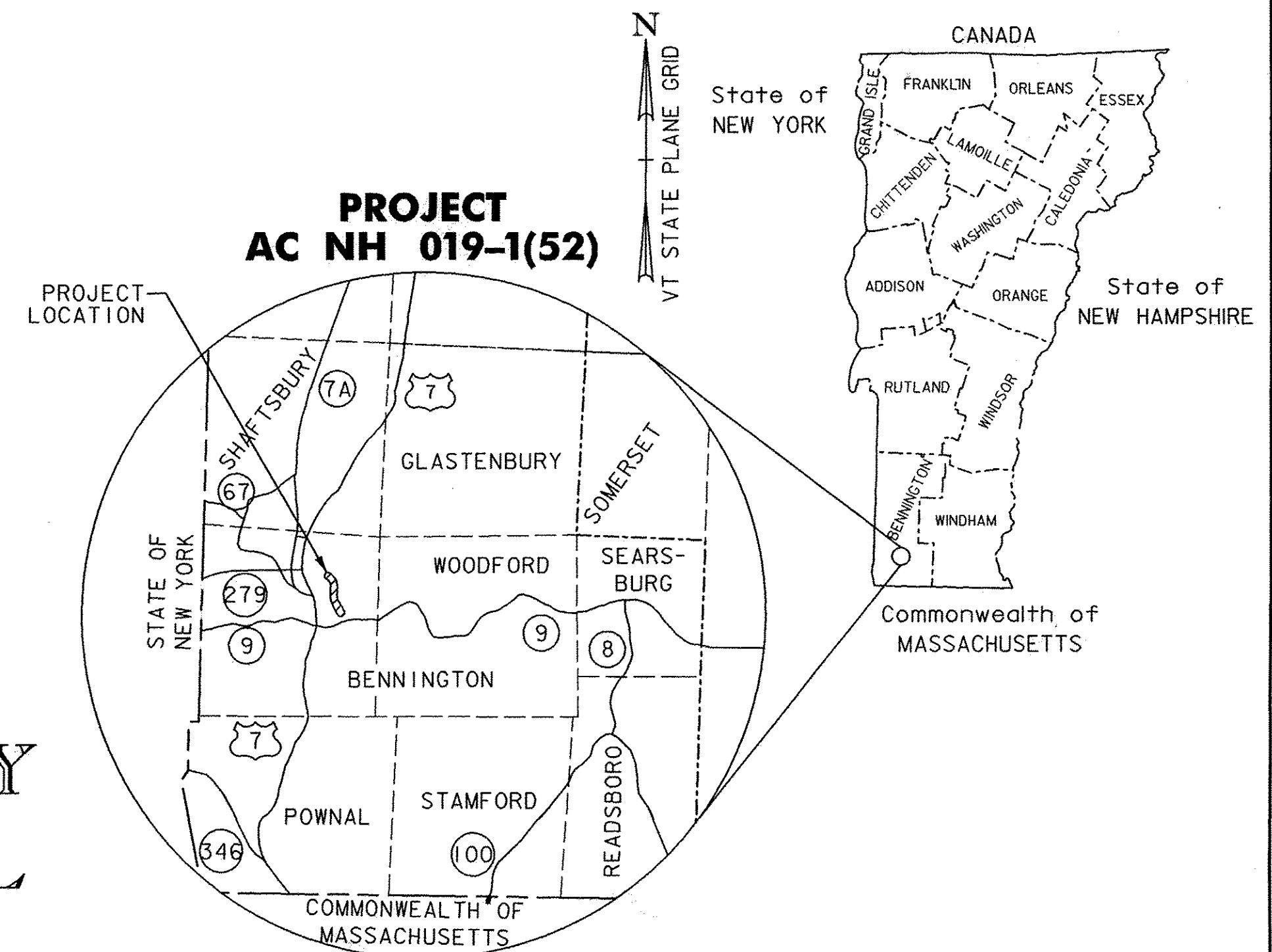
**INDEX OF SHEETS**  
SEE SHEET 2

STATE OF VERMONT  
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT  
TOWN OF BENNINGTON  
COUNTY OF BENNINGTON  
WWII VETERANS MEMORIAL HIGHWAY  
VT ROUTE 279, PRINCIPAL ARTERIAL  
BENNINGTON AC NH 019-1(52)

BEGINNING AT STA. NB 6+540.000, AT A POINT APPROXIMATELY 115 METERS NORTH OF THE ROARING BRANCH RIVER AND EXTENDING TO STA. NB 8+515.000 ENDING AT A POINT APPROXIMATELY 170 METERS WEST OF CHAPEL ROAD IN A NORTH AND WEST DIRECTION. WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES GRADING, DRAINAGE, SUBBASE, PAVEMENT, LANDSCAPING, CONSTRUCTION OF A NEW SPILLWAY AT VETERANS RESERVOIR, AND AMPHIBIAN MITIGATION SITE FOR A NEW STATE HIGHWAY.  
LENGTH OF PROJECT = 1,975.000 METERS = 1.975 KILOMETERS  
LENGTH OF BRIDGE = 34.469 METERS = 0.034 KILOMETERS



**TRAFFIC DATA**

2010 ADT	= 9,100
2030 ADT	= 11,800
2010 DHV	= 1,365
2030 DHV	= 1,770
% TRUCKS	= 6.12
DESIGN SPEED	= 100 km/h

**RECORD PLANS**

CONTRACTOR: PIKE INDUSTRIES, INC. - BERLIN, VT  
RESIDENT ENGINEER: RON LEMAIRE  
CONSTRUCTION BEGAN: APRIL 28, 2008  
CONSTRUCTION COMPLETE: OCTOBER 14, 2010  
RECORD PLANS BY: RON LEMAIRE & AMOS KEMPTON

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.  
BY: *[Signature]* RESIDENT ENGINEER  
DATE: 12/08/11

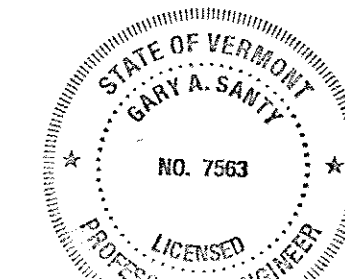
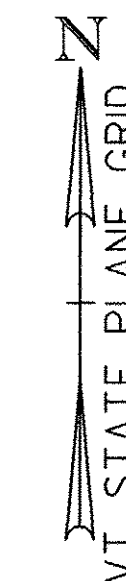
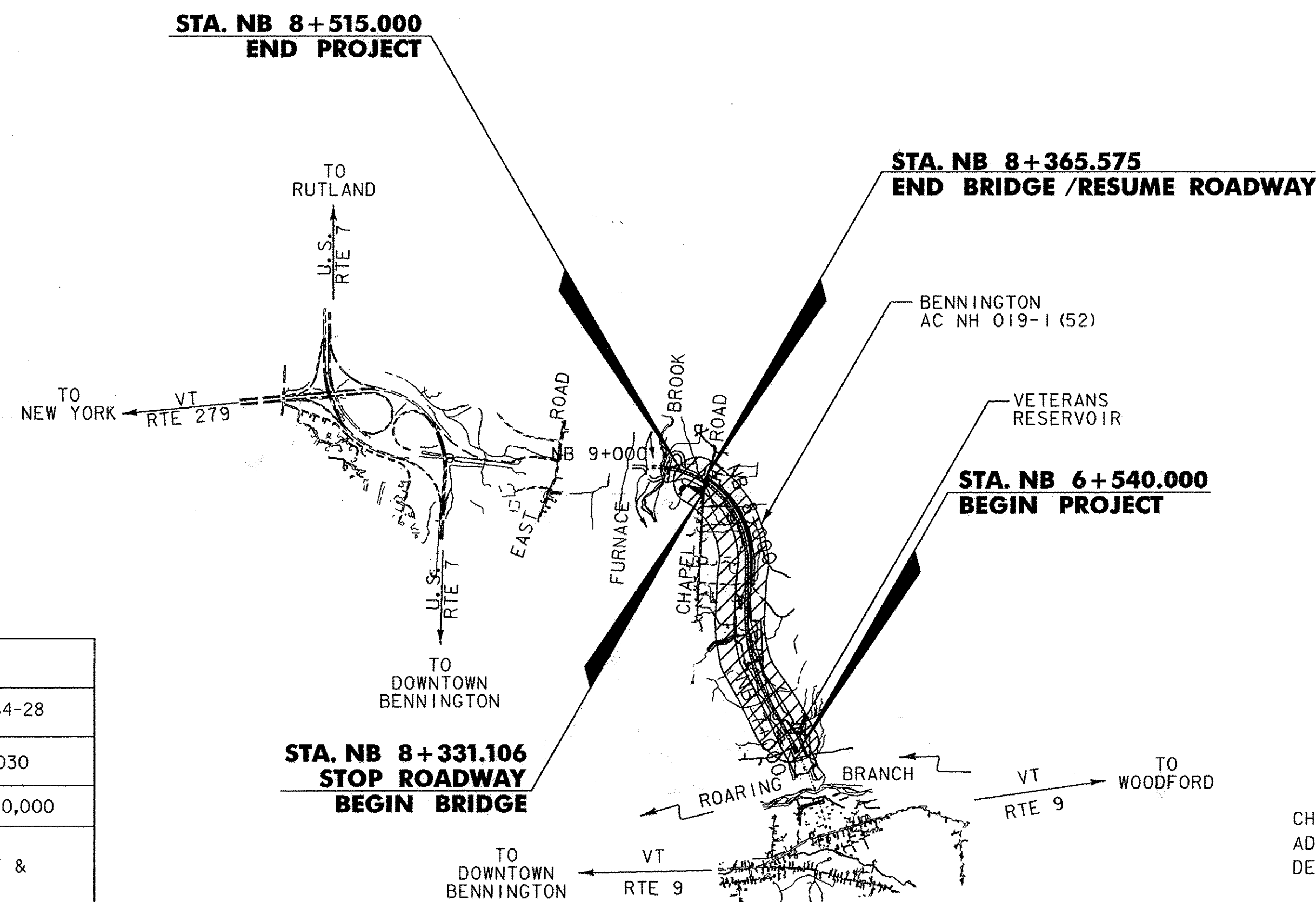
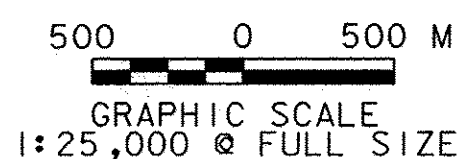
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.

**CONVENTIONAL SYMBOLS**

COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
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	
ARCHEOLOGICAL	
CLEAR ZONE	
WETLAND DELINEATION	

BITUMINOUS CONCRETE PAVEMENT  
SUPERPAVE MIX DESIGN CRITERIA

DESIGN GYRATION	100
PERFORMANCE GRADE BINDER	PG 64-28
DESIGN ESAL	2030
VT ROUTE 279	10,050,000
SURVEYED BY :	VERMONT SURVEY & ENGINEERING
SURVEYED DATE :	1995
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (1992)



*Gay A. Santy*  
12/20/2007

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.



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



Stantec

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION APPROVED <i>Mark D. Rukta</i> DATE 2-11-08 DIVISION ADMINISTRATOR
DIRECTOR OF PROGRAM DEVELOPMENT APPROVED <i>[Signature]</i> DATE 1-9-08
PROJECT MANAGER : JAMES HARRIS
PROJECT NAME : BENNINGTON PROJECT NUMBER : AC NH 019-1 (52)
SHEET 1 OF 267 SHEETS



































































































































DRAWN ON FINAL PLANS - LARGE SET

Calculation Book Number \_\_\_\_\_ Calculation Sheet Number 61467  
 Project Bennington AC NH 019-1(52)  
 Line Item# \_\_\_\_\_ Page Number \_\_\_\_\_ of \_\_\_\_\_  
 Item# \_\_\_\_\_ Field Measured by \_\_\_\_\_  
 Location NB 7+485-7+640 on \_\_\_\_\_

Station	Point	Station	Point	Distance	Remarks
5774					
START POINT	7+485	30.0 m	27		
	7+485	24.5 m	47		
	7+489	24.5 m	47		
	7+489	18.0 m	47		
	7+577	4.0 m	47		
	7+485				
	7+485	4.0 m	RT		
	7+533	3.0 m	RT		
	7+640	8.0 m	RT		
	7+638	58.0 m	47		
	7+634.5	58.0 m	47		
	7+637	4.5 m	RT		
	7+633	0.5 m	RT		
	7+532	9.0 m	47		
	7+530.5	9.0 m	47		
	7+530.5	14.5 m	47		
	7+520	19.5 m	47		
	7+571	35.5 m	47		
	7+523.3	34.0 m	47		
	7+525.5	42.0 m	47		
	7+521	48.5 m	47		
	7+518	47.5 m	47		
	7+516	46.0 m	47		
	7+610	4.70 m	47		
	7+620	4.32 m	47		
	7+630	5.45 m	47		
	7+581	6.70 m	47		
	7+567	8.0 m	47		
	7+560	28.5 m	47		
	7+485	30 m	47	START POINT	

Computed by \_\_\_\_\_ Date \_\_\_\_\_ Checked by \_\_\_\_\_ Date \_\_\_\_\_







































































































































































































































































































































































































































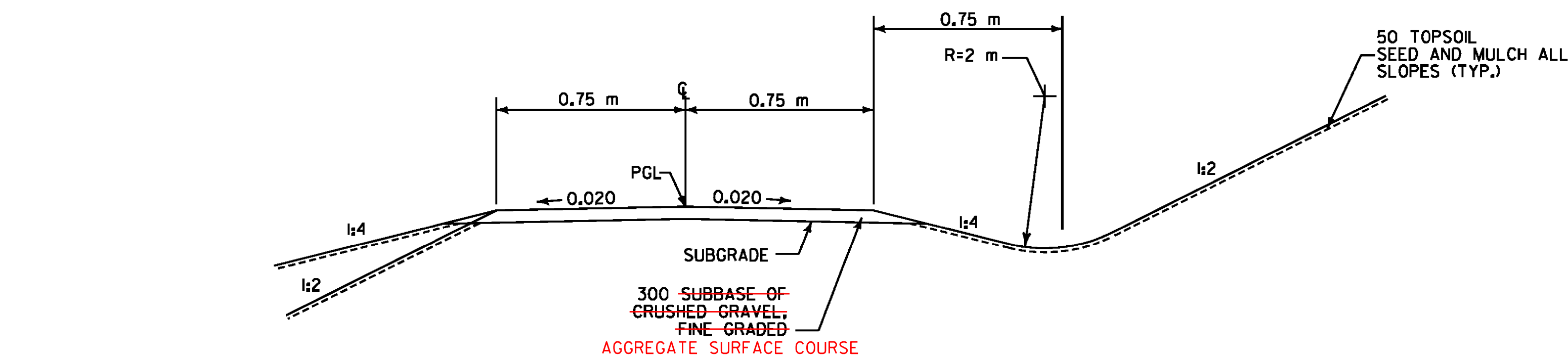




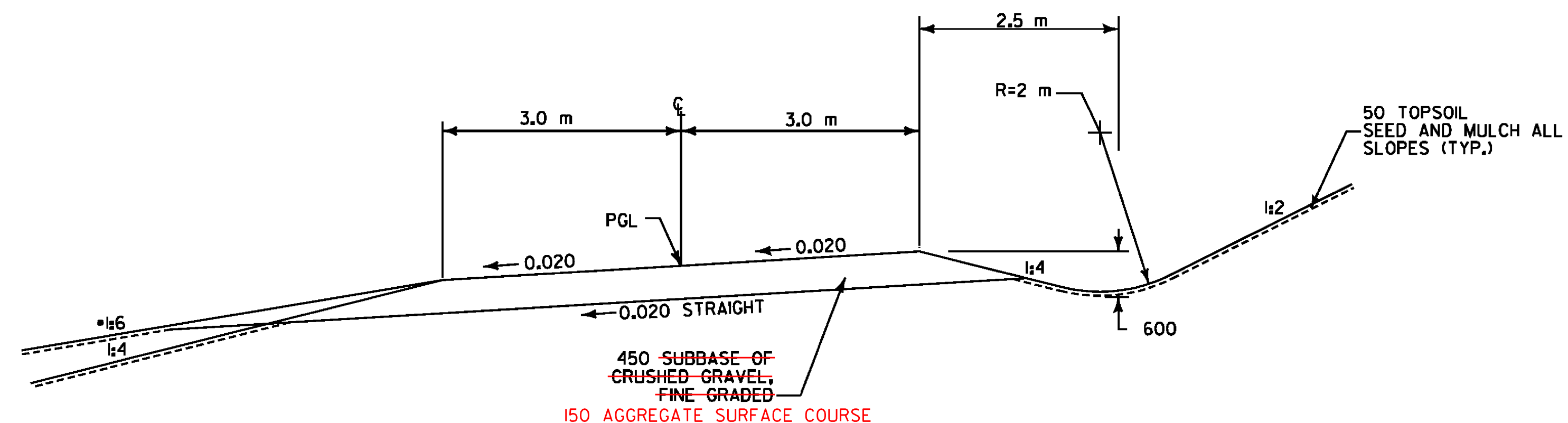
**TYPICAL SECTION  
BALD MOUNTAIN TRAIL  
QUARRY DRIVE  
VETERAN'S RESERVOIR DRIVE**

**NOTES:**

1. FOR SLOPES IN SOLID ROCK EXCAVATION AND DRILLING AND BLASTING OF SOLID ROCK SUBGRADE, SEE VTrans STD. SHEET A-60 AND A-62 AND DETAILS
2. REFER TO TYPICAL SECTION SHEET, TS-06 FOR SEEDING FORMULA AND ADDITIONAL GENERAL NOTES.

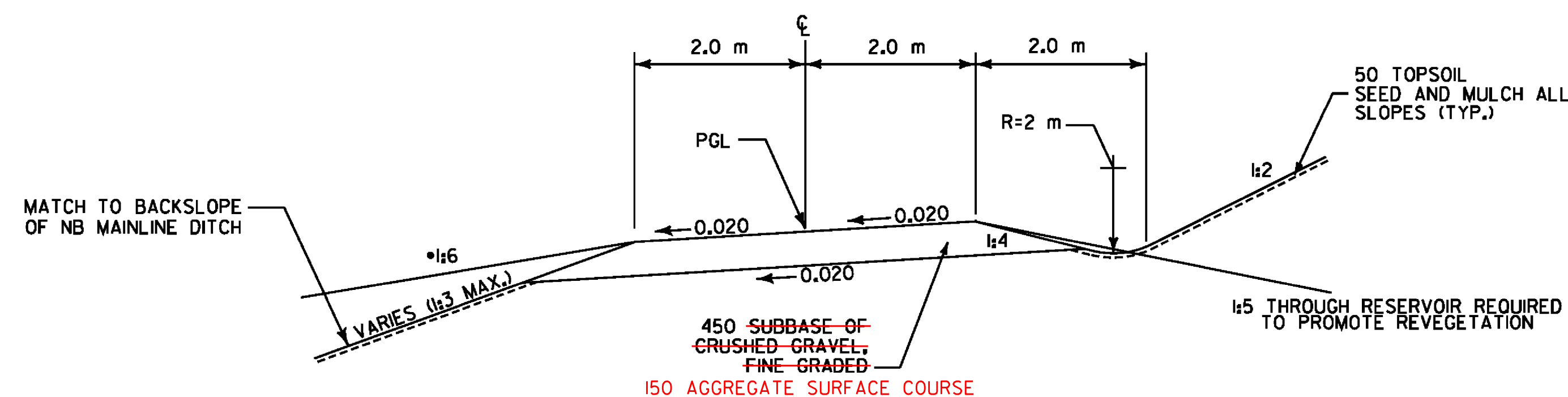


**BALD MOUNTAIN TRAIL**  
NOT TO SCALE



\*SIDESLOPES AT THE INTERSECTION (DITCHLINE) OF CHAPEL ROAD TO BE 1:6 OR FLATTER IN ACCORDANCE WITH STANDARD B-71.  
300 SUBBASE OF DENSE GRADED CRUSHED STONE AS PER WRITTEN ORDER #50

**QUARRY DRIVE**  
NOT TO SCALE



\*SIDESLOPES AT THE INTERSECTION (DITCHLINE) OF MAINLINE TO BE 1:6 OR FLATTER IN ACCORDANCE WITH STANDARD B-71.  
300 SUBBASE OF DENSE GRADED CRUSHED STONE AS PER WRITTEN ORDER #50

**VETERAN'S RESERVOIR ACCESS DRIVE AND  
RELOCATED CVPS DRIVE**  
NOT TO SCALE

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT WHERE NOTED.

**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME: BENNINGTON  
PROJECT NUMBER: AC NH 019-1(52)

FILE NAME: ...\\plot\_files\zd307c2typ.pxf PLOT DATE: 5/16/2011  
DESIGN SUPERVISOR: GREG EDWARDS DRAWN BY: STANTEC  
DESIGNED BY: MARC FOISY CHECKED BY: GARY SANTY  
TYPICAL TS-03 SHEET 5 OF 267

PGL=PROFILE GRADE LINE

# ITEM DETAIL SHEET



CURB				FENCE					GUARDRAIL						UNDERDRAIN														
BEGN STATION km + m	END STATION km + m	POSITION		REMARKS	BEGN STATION km + m	END STATION km + m	POSITION	QUANTITY	UNITS	BEGN STATION km + m	END STATION km + m	POSITION		END TREATMENT		BEGN STATION km + m	END STATION km + m	TYPE	POSITION	DIA. mm	LENGTH m	TRENCH (1)		FB ea	MKR PST ea				
		LEFT M	RIGHT M									LEFT m	RIGHT m	BEGIN ea	END ea							EARTH m³	ROCK m³						
<b>616.305 - BITUMINOUS CONCRETE CURB, TYPE A</b>				<b>620.12 - CHAIN-LINK FENCE, 1.8 M</b>					<b>621.20 - STEEL BEAM GUARDRAIL, GALVANIZED</b>						<b>605.10 - 150 UNDERDRAIN</b>														
					VR 1+014.864	VR 1+095.690	RT	76.6	M	NB 7+000.0	7+308.6	312.4			1	1	NB 6+595.0	6+670.0	U503	RT	150	69	86.6			1	1		
					VB 1+039.598	VB 1+127.560	LT	88.2	M	NB 7+003.3	7+612.9				605.8	1	1	NB 6+595.0	6+670.0	U518	LT	150	69.2	86.8			1	1	
					VB 1+096.478	VR 1+015.124	RT	25.4	M	NB 7+399.0	7+799.0	400.1				1	1	NB 6+670.0	7+040.0	U519	LT	150	383.2	480.9			4	4	
					VB 1+120.447	VB 1+101.876	RT	18.9	M	NB 8+136.0	8+316.8				181.8	1		NB 6+670.0	6+760.0	U504	RT	150	84	105.4			1	1	
					VB 1+127.560	VB 1+120.509	RT	33.2	M	NB 8+197.2	8+340.9	113.6				1		NB 6+760.0	6+835.0	U506	RT	150	69	86.6			1	1	
					VR 1+146.442	VR 1+146.442	LT	2.5	M	NB 8+377.3	8+526.0	148.7						NB 6+835.0	6+910.0	U507	RT	150	69	86.6			1	1	
					VR 1+146.442	VR 1+146.442	RT	2.5	M	NB 8+383.1	8+526.0				142.9			NB 6+910.0	6+985.0	U508	RT	150	68.5	86			1	1	
					NB 7+096.467	NB 7+158.023	RT	85.0	M	POSITION TOTAL		974.8	930.5					NB 6+985.0	7+070.0	U509	RT	150	81	101.7			1	1	
					NB 7+100.138	NB 7+161.972	RT	47.1	M	ROUNDING		0.7						NB 7+075.0	7+130.0	U416	RT	150	54.8	68.77			1	1	
					NB 7+125.785	NB 7+158.139	LT	58.2	M	TOTAL		1906						NB 7+157.7	7+165.0	U491	RT	150	7.1	8.9					
					NB 7+129.495	NB 7+161.868	LT	64.2	M	<b>621.50 - MANUFACTURED TERMINAL END SECTION, FLARED</b>						NB 7+640.0	7+850.0	U432	RT	150	206.9	259.7			2	2			
					NB 7+599.345	NB 7+640.823	RT	41.6	M	POSITION TOTAL						4	4	NB 7+852.0	7+975.0	U424	RT	150	120.2	150.8			2	2	
					QR 1+049.577	QR 1+786.551	LT	726.3	M	ROUNDING						8		NB 7+880.0	7+975.0	U406	LT	150	89.7	112.6			1	1	
					QR 1+049.000	QR 1+049.000	LT	2.0	M	ROUNDING						-		NB 8+050.5	8+125.0	U422	RT	150	69.8	87.6			1	1	
					QR 1+049.000	QR 1+049.000	RT	10.5	M	TOTAL						8		NB 8+050.5	8+125.0	U404	LT	150	68.2	85.6			1	1	
					QR 1+420.000	QR 1+420.000	LT	4.4	M	<b>605.10-150 UNDERDRAIN ADDED TO CONTRACT</b>						NB 8+125.0	8+200.0	U403	LT	150	67.6	84.8			1	1			
					QR 1+420.000	QR 1+420.000	RT	5.9	M	NB 6+644 -	6+666	A	RT	REF	DP-02	NB 8+130.0	8+200.0	U421	RT	150	69	86.7			1	1			
					QR 1+783.551	QR 1+784.602	LT	3.9	M	NB 6+665 -	6+670	B	RT	REF	DP-02	SUBTOTAL		U				1646	2066						
					QR 1+786.567	QR 1+787.498	RT	3.6	M	NB 6+686 -	6+686	C	RT	REF	DP-02	ROUNDING		U				324							
										NB 6+679 -	6+679	D	RT	REF	DP-02	TOTAL		U				1970							
										NB 7+180 -	7+335	LT-RT		REF	DP-04	<b>605.20 - 150 UNDERDRAIN CARRIER PIPE</b>													
										NB 7+160 -	7+180	BOX CULVERT		REF	DP-04	14 FLUSHING BASINS		C	RT	150	17	70							
										NB 7+980 -	8+034	U423	RT	REF	DP-06	7 FLUSHING BASINS		C	LT	150	8	35							
										NB 7+980 -	8+050	U405	LT	REF	DP-06	NB 7+150.0	NB 7+130.0	C	RT	150	11								
										NB 8+320 -	8+340			REF	DP-09	SUBTOTAL		C				36							
										NB 8+365 -	8+370			REF	DP-09	ROUNDING						-							
																		TOTAL						36					
																		204.20 TRENCH EXCAVATION											
																		SUBTOTAL											
																		605.95 UNDERDRAIN FLUSHING BASIN											
																		SUBTOTAL											
																		819.17 YIELDING MARKER POSTS											
																		SUBTOTAL									21		

1. GEOTEXTILE TO BE INCLUDED IN THE UNIT COST OF THE UNDERDRAIN CONSTRUCTION.  
2. FOR ROUNDING AND PROJECT TOTALS FOR TRENCH EXCAVATION, YIELDING MARKER POSTS AND FLUSHING BASINS SEE QUANTITY SHEETS 1-6

C:\Users\jfoisy\Documents\transportation\drawing\contract\_2\p101\_files\zd307c2item\_detail.p11

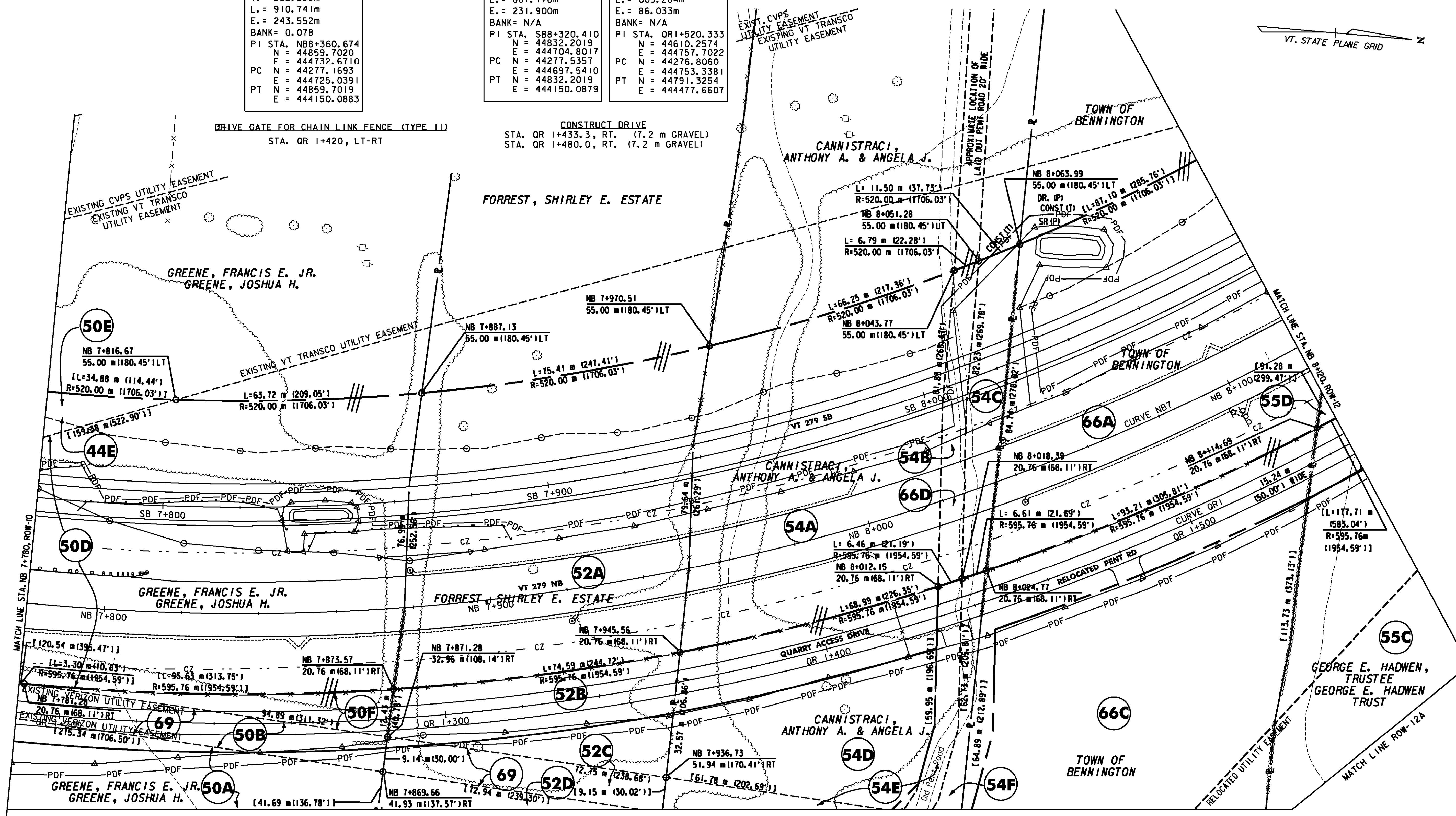
CURVE NB7	
Δ	= 90° 45' 02.2"
R.	= 575.000m
T.	= 582.583m
L.	= 910.741m
E.	= 243.552m
BANK	= 0.078
PI STA.	NB8+360.674
N	= 44859.7020
E	= 444732.6710
PC N	= 44277.1693
E	= 444725.0391
PT N	= 44859.7019
E	= 444150.0883

CURVE SB7	
Δ	= 90° 45' 0.1"
R.	= 547.500m
T.	= 554.714m
L.	= 867.178m
E.	= 231.900m
BANK	= N/A
PI STA.	SB8+320.410
N	= 44832.2019
E	= 444704.8017
PC N	= 44277.5357
E	= 444697.5410
PT N	= 44832.2019
E	= 444150.0879

CURVE ORI	
Δ	= 57° 51' 50.8"
R.	= 603.300m
T.	= 333.480m
L.	= 609.284m
E.	= 86.033m
BANK	= N/A
PI STA.	QR1+520.333
N	= 44610.2574
E	= 444757.7022
PC N	= 44276.8060
E	= 444753.3381
PT N	= 44791.3254
E	= 444477.6607

DRIVE GATE FOR CHAIN LINK FENCE (TYPE 11)  
STA. QR 1+420, LT-RT

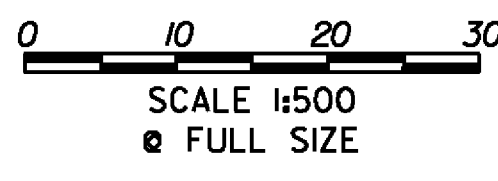
CONSTRUCT DRIVE  
STA. QR 1+433.3, RT. (7.2 m GRAVEL)  
STA. QR 1+480.0, RT. (7.2 m GRAVEL)



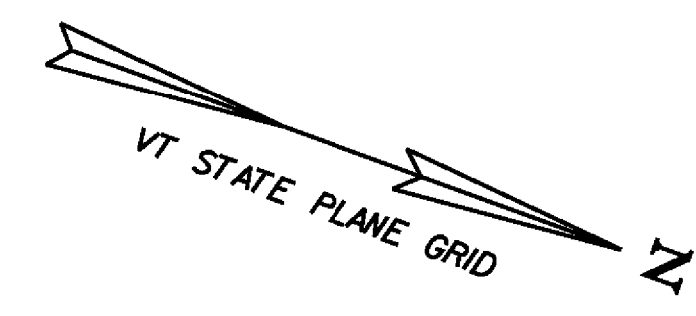
LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

THIS SHEET TO BE USED FOR RIGHT-OF-WAY INFORMATION ONLY

DATUM  
VERTICAL NAVD 88  
HORIZONTAL NAD 83 (1992)



<b>R.O.W. PLAN ROW-11</b>	PROJECT NAME: BENNINGTON	PROJECT NUMBER: AC NH 019-(K52)
	DESIGN FILE NAME: c:\dh\bennington\row	PLOT DATE: 12-18-07
	PROJECT LEADER: JDP	DRAWN BY: MBB
		CHECKED BY: GAK
SHEET: 40 OF 267		

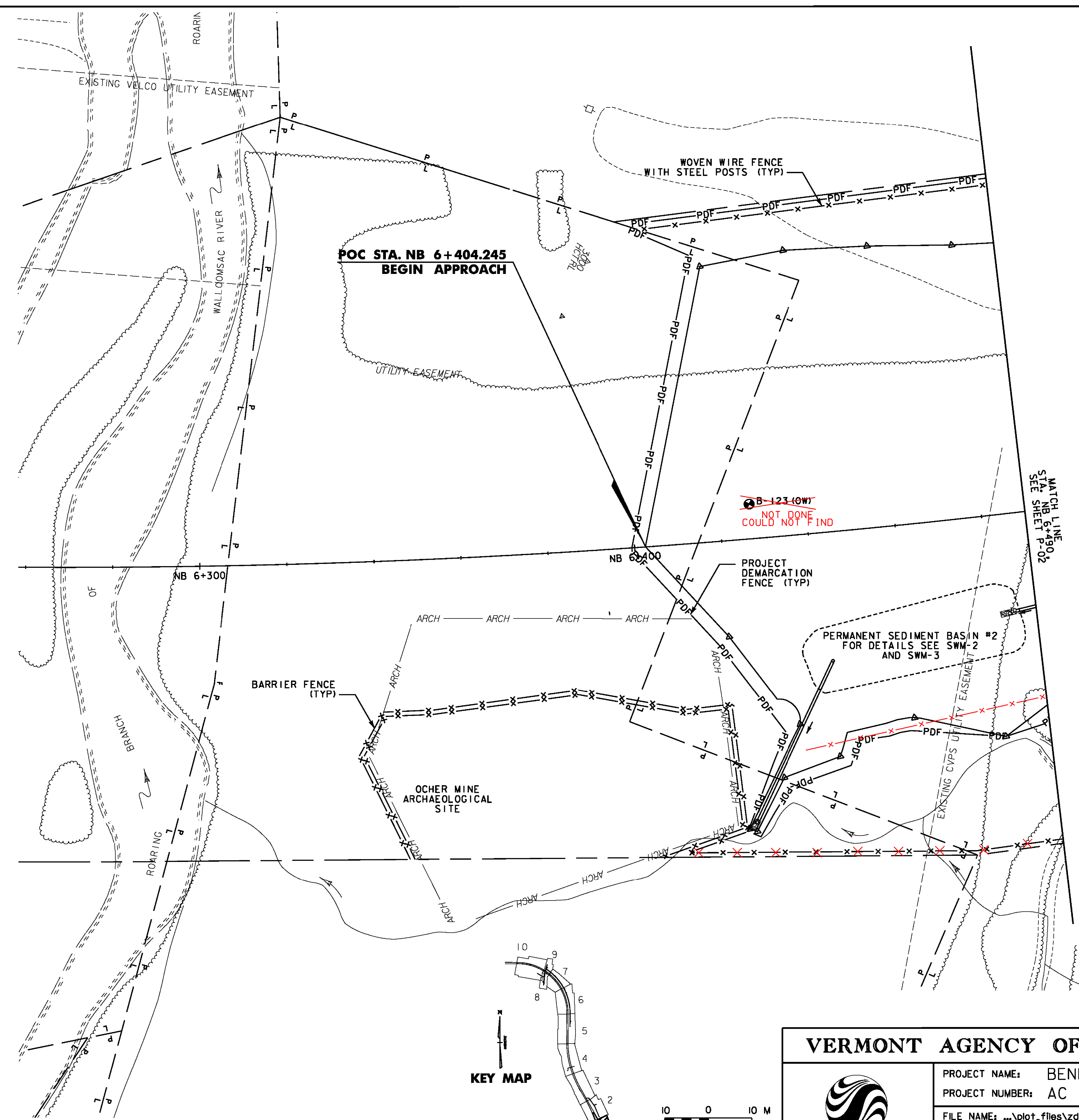


**WOVEN WIRE FENCE WITH STEEL POSTS**  
 STA. NB 6+404.245, 74.2m LT. - STA. NB 6+490.000, 77.1m LT.  
 STA. NB 6+401.855, 71.8m RT. - STA. NB 6+490.000, 75.7m RT.  
 434 50m 497 42m

**PROJECT DEMARCATION FENCE**  
 STA. NB 6+404.245, 74.2m LT. - STA. NB 6+399.368, C.  
 STA. NB 6+399.368 C. - STA. NB 6+420.731, 67.0m RT.  
 STA. NB 6+420.731, 67.0m RT. - STA. NB 6+490.000, 48.2m RT.  
 STA. NB 6+406.539, 72.8m LT. - STA. NB 6+490.000, 75.6m LT.

**BARRIER FENCE**  
 STA. NB 6+340.791, 34.7m RT. - STA. NB 6+345.598, 68.7m RT.  
 STA. NB 6+340.791, 34.7m RT. - STA. NB 6+419.385, 37.5m RT.  
 STA. NB 6+401.855, 71.8m RT. - STA. NB 6+419.385, 37.5m RT.

~~SPECIAL PROVISION (OBSERVATION WELL)~~  
 STA. NB 6+427.000, 8.0m LT (B-123)  
 NOT DONE  
 COULD NOT FIND

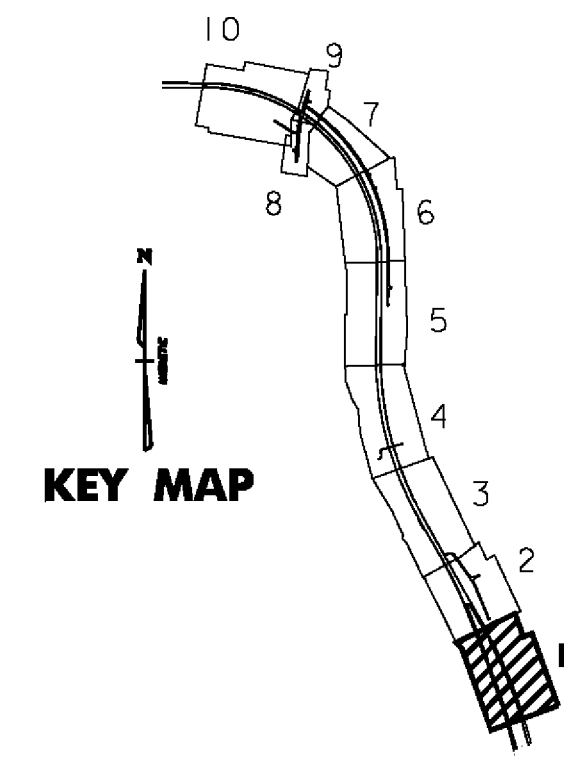


**POC STA. NB 6+404.245  
 BEGIN APPROACH**

~~B-123 (OW)~~  
 NOT DONE  
 COULD NOT FIND

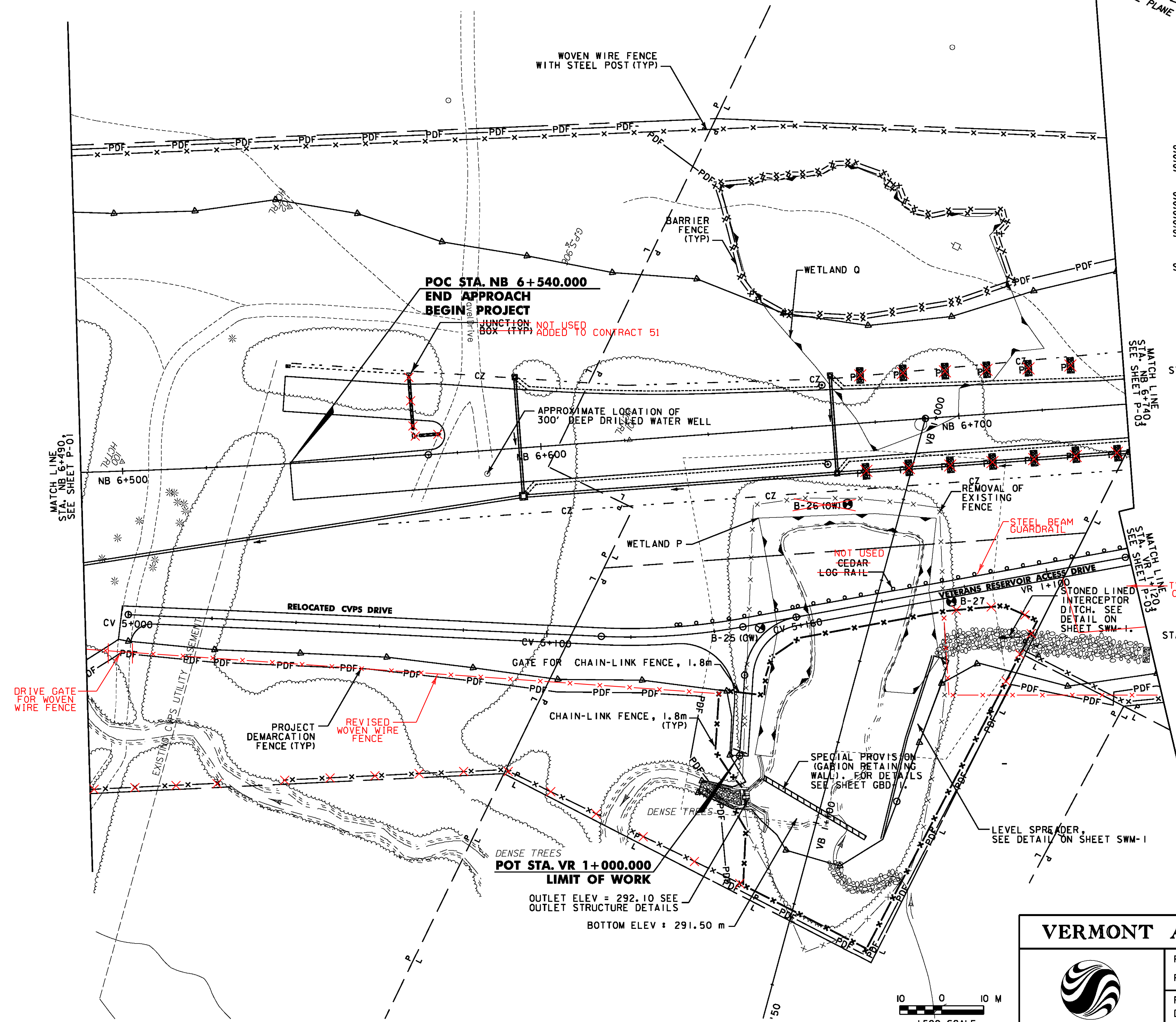
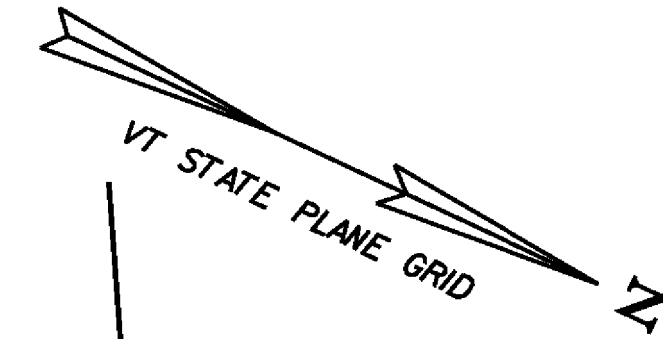
MATCH LINE  
 STA. NB 6+490.000  
 SEE SHEET P-02

LEGEND	
PDF — PDF —	PROJECT DEMARCATION FENCE
X—X—X—X—X—	BARRIER FENCE
x—x—x—x—x—	CHAIN-LINK FENCE
x—x—x—x—x—	RIGHT OF WAY FENCE
WETLAND BOUNDARY	
ARCH — ARCH	ARCHAEOLOGICAL SITE
WATER BOUNDARY	
P — L —	PROPERTY LINE



<b>VERMONT AGENCY OF TRANSPORTATION</b>	
	PROJECT NAME: BENNINGTON
	PROJECT NUMBER: AC NH 019-1(52)
FILE NAME: ...plot.files\zd307c2p01p1f	PLOT DATE: 5/16/2011
DESIGN SUPERVISOR: GREG EDWARDS	DRAWN BY: STANTEC
DESIGNED BY: MARC FOISY	CHECKED BY: GARY SANTY
<b>GENERAL PLAN P-01</b>	SHEET 71 OF 267

V:\1953\active\19530102\1\transportation\drawing\conform\act1\_2\plot1\_files\zd307c2p01p1f



- ~~JUNCTION BOX NOT USED~~
- ~~STA. NB 6+569.772, 19.5m LT.~~
- ~~STA. NB 6+569.871, 4.7m LT.~~
- 6+502.42m RT WOVEN WIRE FENCE WITH STEEL POSTS 6m RT
- STA. NB 6+490.000, 75.7m RT. - STA. NB 6+640.306, 109.5m RT.
- STA. NB 6+490.000, 77.1m LT. - STA. NB 6+740.000, 63.7m LT.
- STA. VR 1+091.043, 17.4m RT. - STA. VR 1+120.000, 34.8m RT.
- PROJECT DEMARCATION FENCE**
- STA. NB 6+490.000, 41.9m RT. - STA. CV 5+135.123, 35.5m RT.
- STA. NB 6+639.617, 89.6m RT. - STA. NB 6+740.000, 69.2m RT.
- STA. NB 6+490.000, 75.6m LT. - STA. NB 6+630.526, 73.0m LT.
- STA. NB 6+628.718, 74.6m LT. - STA. NB 6+645.685, 60.0m LT.
- STA. NB 6+715.587, 30.5m LT. - STA. NB 6+740.000, 34.7m LT.
- BARRIER FENCE**
- STA. NB 6+645.685, 60.0m LT. - STA. NB 6+715.587, 30.5m LT.
- ~~NOT USED ADDED TO CONTRACT 51~~
- ~~ELECTRICAL CONDUIT SLEEVE (200 MM) (PVC) (SCH 80)~~
- ~~STA. NB 6+569.601, 4.2m LT.~~ - STA. NB 6+570.291, 19.8m LT.
- ~~STA. NB 6+569.871, 4.7m LT.~~ - STA. NB 6+576.443, 4.7m LT.
- REMOVAL OF EXISTING FENCE**
- STA. CV 5+148.457, LT. - STA. VR 1+074.788, LT.
- STA. CV 5+148.457, RT. - STA. VR 1+074.788, RT.
- STA. VB 1+125.694, 12.0 m LT. - STA. VR 1+077.331, 19.6 m LT.
- GATE FOR CHAIN-LINK FENCE, 1.8m**
- STA. VR 1+014.864, 2.5m RT. - STA. VR 1+015.124, 2.5m LT.
- CHAIN-LINK FENCE, 1.8m**
- STA. VB 1+120.447, 12.6m RT. - STA. VB 1+101.876, 19.8m RT.
- STA. VB 1+096.478, 19.2m RT. - STA. VR 1+015.124, 2.5m LT.
- STA. VR 1+014.864, 2.5m RT. - STA. VR 1+095.690, 11.2m RT.
- STA. VR 1+039.598, 38.4m LT. - STA. VR 1+127.560, 20.7m RT.
- STA. VB 1+127.560, 20.7m LT. - STA. VB 1+120.509, 12.8m RT.
- SPECIAL PROVISION (DECOMMISSION WATER WELL)**
- STA. NB 6+586.812, 5.6 m RT.
- SPECIAL PROVISION (GABION RETAINING WALL)**
- STA. VB 1+092.844, 14.9m RT. - STA. VB 1+100.366, 12.3m LT.
- STEEL BEAM GUARDRAIL**
- ~~CEDAR LOG RAIL NOT USED~~
- STA. CV 5+130.745, 2.000m LT. - STA. VR 1+120.000, 2.000m LT.
- SPECIAL PROVISION (DECOMMISSION OBSERVATION WELL)**
- STA. NB 6+649.000, 47.0 m RT. (B-25)
- STA. NB 6+672.000, 19.0 m RT. (B-26) NOT DONE

TYPE II STONE COVERED BY GRUBBINGS

STONED LINED INTERCEPTOR DITCH. SEE DETAIL ON SHEET SWM-1.

LEVEL SPREADER, SEE DETAIL ON SHEET SWM-1

DRIVE GATE FOR WOVEN WIRE FENCE

RELOCATED CVPS DRIVE

EXISTING CVPS UTILITY SEWER

APPROXIMATE LOCATION OF 300' DEEP DRILLED WATER WELL

WETLAND O

WETLAND P

DENSE TREES

POT STA. VR 1+000.000 LIMIT OF WORK

OUTLET ELEV = 292.10 SEE OUTLET STRUCTURE DETAILS

BOTTOM ELEV = 291.50 m

NOT USED CEDAR LOG RAIL

NOT USED

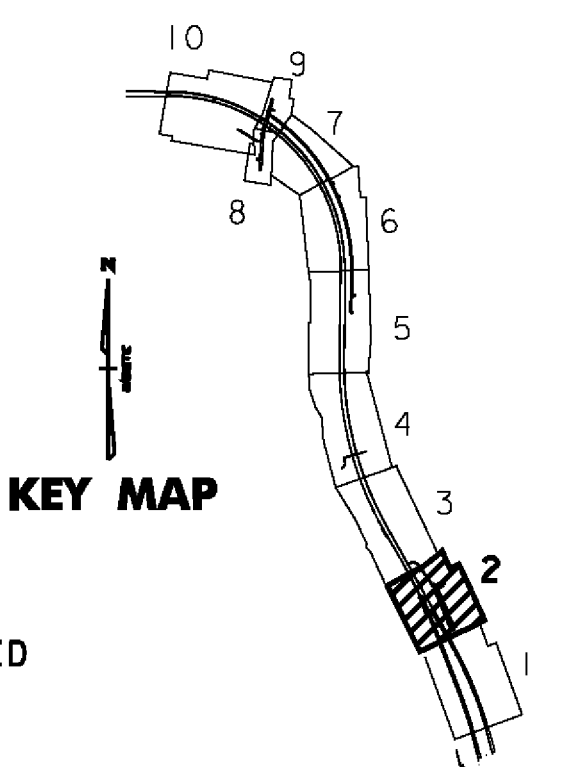
REMOVED EXISTING FENCE

STEEL BEAM GUARDRAIL

STONED LINED INTERCEPTOR DITCH. SEE DETAIL ON SHEET SWM-1.

LEVEL SPREADER, SEE DETAIL ON SHEET SWM-1

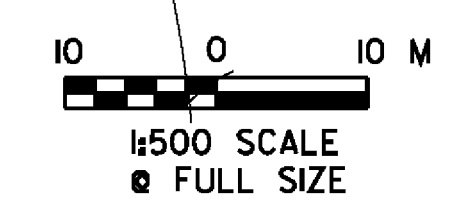
**NOTE:**  
TREE CLEARING SHALL BE KEPT TO A MINIMUM FOR WORK PROPOSED AT THE VETERANS RESERVOIR.



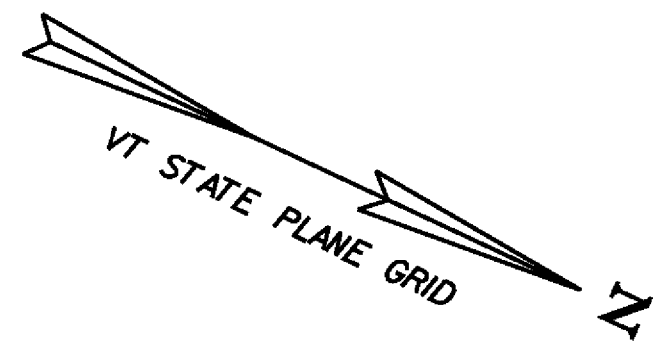
**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: AC NH 019-1(52)  
 FILE NAME: ...\\plot.files\zd307c2p02.pff  
 DESIGN SUPERVISOR: GREG EDWARDS  
 DESIGNED BY: MARC FOISY  
 GENERAL PLAN P-02  
 PLOT DATE: 5/16/2011  
 DRAWN BY: STANTEC  
 CHECKED BY: GARY SANTY  
 SHEET 72 OF 267



V:\1953\active\19530002\transportation\drawing\contract\2\plot\_files\zd307c2p02.pff



**WOVEN WIRE FENCE WITH STEEL POSTS**  
 STA. NB 6+740.000, 63.7m LT. - STA. NB 7+090.000, 59.8m LT.  
 STA. NB 6+740.000, 70.7m RT. - STA. NB 7+090.000, 37.2m RT.

**PROJECT DEMARCATION FENCE**  
 STA. NB 6+989.000, 72.7m RT. - STA. NB 7+088.000, 51.7m RT.  
 STA. NB 6+740.000, 36.7m LT. - STA. NB 7+090.000, 29.2m LT.  
 STA. NB 6+740.000, 69.6m RT. - STA. NB 7+090.000, 35.5m RT.

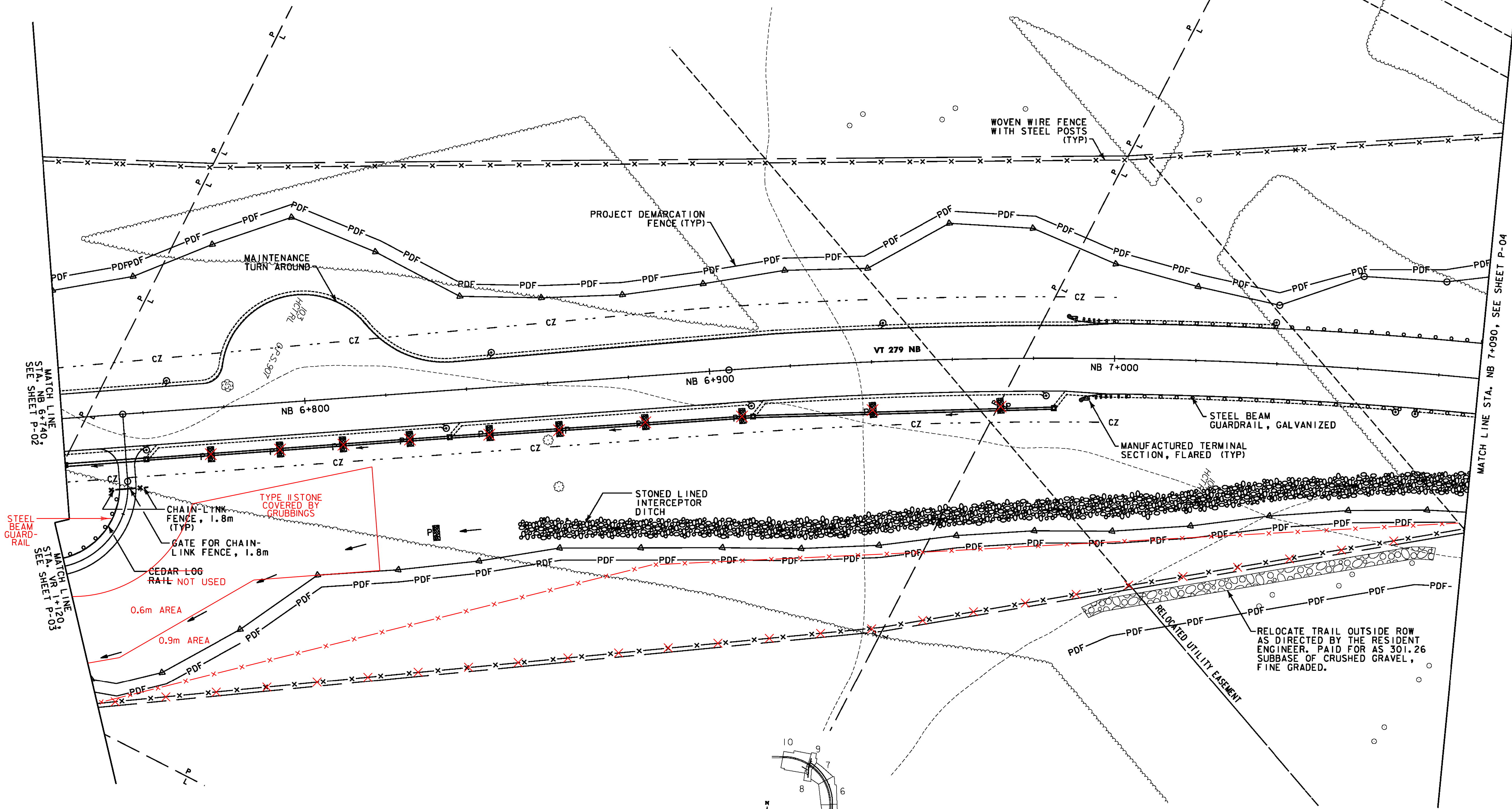
**MANUFACTURED TERMINAL SECTION, FLARED**  
 STA. NB 7+000.000, 8.7m LT.  
 STA. NB 7+003.249, 8.7m RT.

**GATE FOR CHAIN-LINK FENCE, 1.8m**  
 STA. VR 1+146.442, 2.5m LT. TO 2.5m RT.

**008 STEEL BEAM GUARDRAIL, GALVANIZED**  
 STA. NB 7+000.000, 8.7m LT. - STA. NB 7+090.000, 8.7m LT.  
 STA. NB 7+003.249, 8.7m RT. - STA. NB 7+090.000, 8.7m RT.

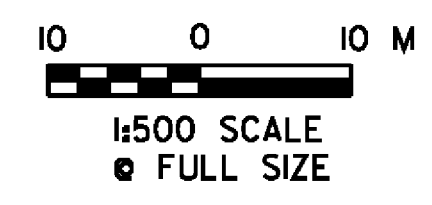
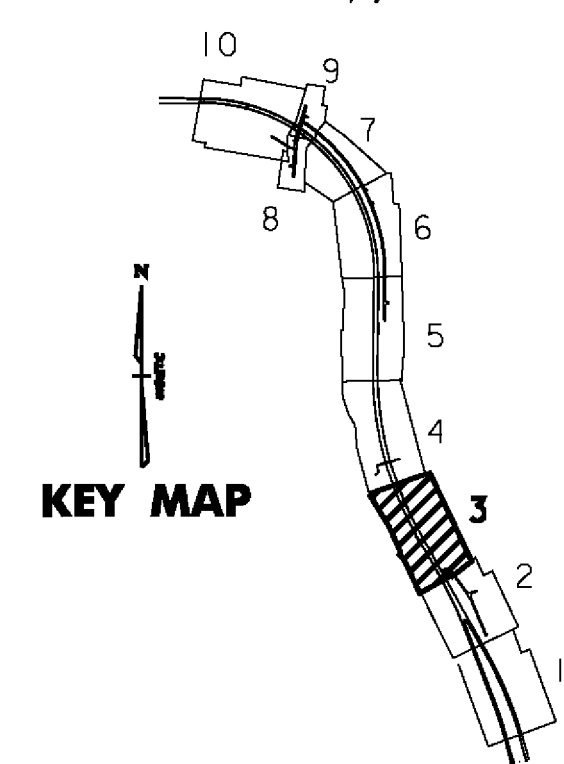
**CHAIN-LINK FENCE, 1.8m**  
 STA. VR 1+146.442, 2.5m LT. TO 5.0m LT.  
 STA. VR 1+146.442, 2.5m RT. TO 5.0m RT.

**CEGAR LOG RAIL NOT USED**  
 STA. VR 1+120.000, 2.0m LT. - STA. VR 1+145.820, 2.0m RT.  
**STEEL BEAM GUARDRAIL**



MATCH LINE  
 STA. NB 6+740.000  
 SEE SHEET P-02

MATCH LINE STA. NB 7+090.000  
 SEE SHEET P-04



**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME:	BENNINGTON	PLOT DATE:	5/16/2011
PROJECT NUMBER:	AC NH 019-1(52)	DRAWN BY:	STANTEC
FILE NAME:	...plot_files\zd307c2p03.pif	DESIGNED BY:	GARY SANTY
DESIGN SUPERVISOR:	GREG EDWARDS	CHECKED BY:	GARY SANTY
DESIGNED BY:	MARC FOISY	SHEET	73 OF 267
<b>GENERAL PLAN</b>	<b>P-03</b>		

V:\953\active\9530002\transportation\vdrawing\conform\ctf\_2\plot\_files\zd307c2p03.pif

**WOVEN WIRE FENCE WITH STEEL POSTS**  
 STA. NB 7+090.000, 59.8m LT. - STA. NB 7+125.000, 65.0m LT.  
 STA. NB 7+090.000, 37.2m RT. - STA. NB 7+096.000, 40.1m RT.  
 STA. NB 7+100.384, 45.4m RT. - STA. NB 7+440.000, 28.5m RT.  
 STA. NB 7+130.000, 67.1m LT. - STA. NB 7+324.990, 81.0m LT.  
 STA. NB 7+332.083, 80.4m LT. - STA. NB 7+440.000, 75.6m LT.

**PROJECT DEMARCATION FENCE**  
 STA. NB 7+090.000, 37.4m LT. - STA. NB 7+127.655, 54.9m LT.  
 STA. NB 7+090.000, 35.5m RT. - STA. NB 7+162.772, 44.6m RT.  
 STA. NB 7+123.030, 65.7m LT. - STA. NB 7+312.430, 98.6m LT.  
 STA. NB 7+162.012, 43.1m RT. - STA. NB 7+193.912, 24.9m RT.  
 STA. NB 7+237.158, 17.3m RT. - STA. NB 7+290.466, 18.8m RT.  
 STA. NB 7+331.800, 107.6m LT. - STA. NB 7+440.000, 65.4m LT.  
 STA. NB 7+335.177, 18.3m RT. - STA. NB 7+440.000, 27.0m RT.

**BARRIER FENCE**  
 STA. NB 7+170.342, 62.5m RT. - STA. NB 7+218.980, 71.6m RT.  
 STA. NB 7+273.888, 44.9m RT. - STA. NB 7+349.317, 58.1m RT.

**7+18 BITUMINOUS CONCRETE CURB, TYPE A**  
 STA. NB 7+120.284, RT. - STA. NB 7+440.000, RT.  
 STA. NB 7+399.000, LT. - STA. NB 7+440.000, LT.

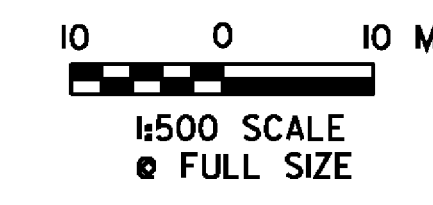
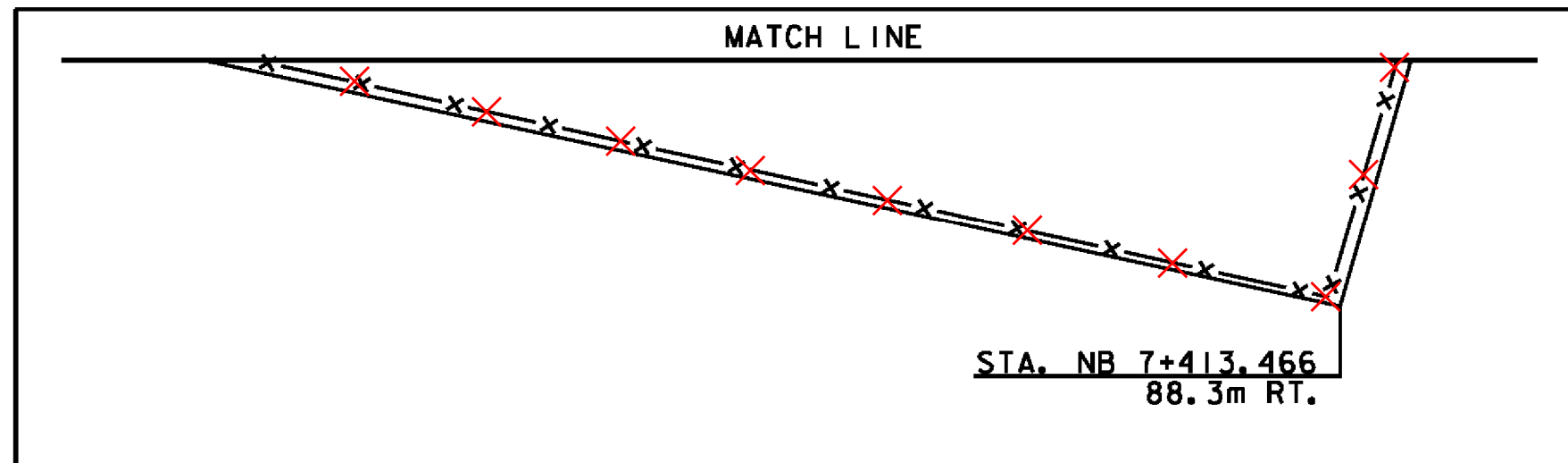
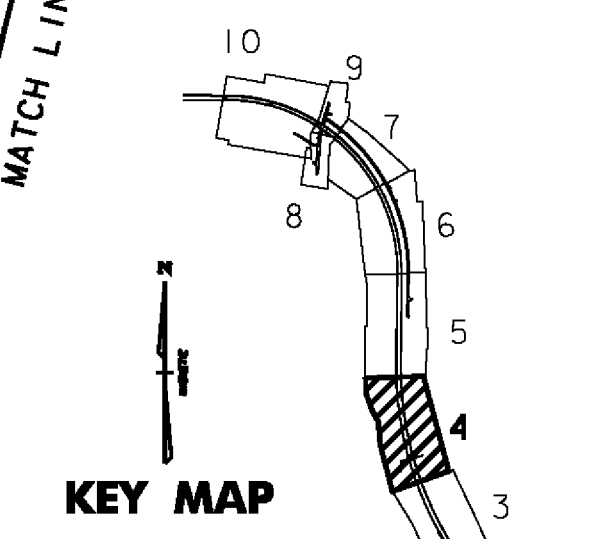
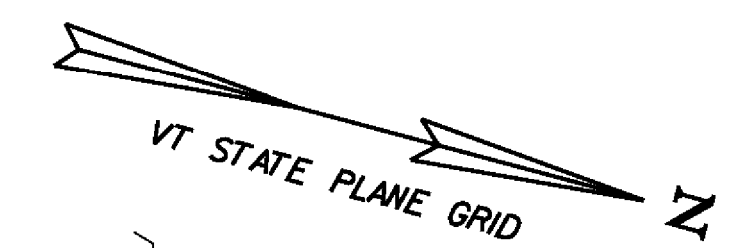
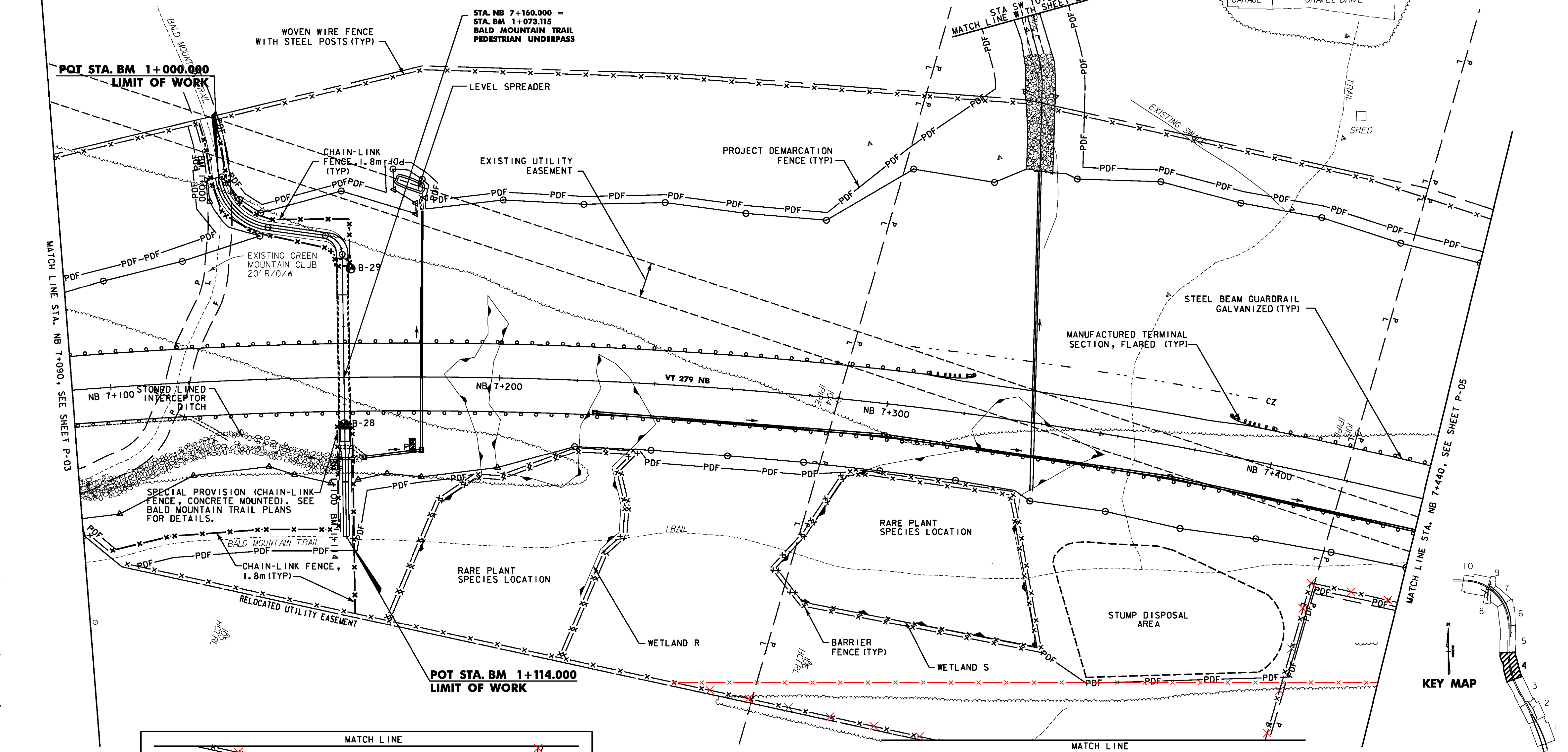
**STEEL BEAM GUARDRAIL, GALVANIZED**  
 STA. NB 7+090.000, 8.7m LT. - STA. NB 7+309.981, 8.7m LT.  
 STA. NB 7+090.000, 8.7m RT. - STA. NB 7+440.000, 8.7m RT.  
 STA. NB 7+398.951, 8.7m LT. - STA. NB 7+440.000, 8.7m LT.

**MANUFACTURED TERMINAL SECTION, FLARED**  
 STA. NB 7+309.981, 8.7m LT.  
 STA. NB 7+398.951, 8.7m LT.

**STONE FILL, TYPE II**  
 STA. NB 7+140.000, RT. - STA. NB 7+360.000, RT. (FOR SLOPE STABILIZATION)

**GRUBBING MATERIAL**  
 STA. NB 7+140.000, RT. - STA. NB 7+360.000, RT. (FOR SLOPE STABILIZATION)

**CHAIN-LINK FENCE, 1.8m**  
 STA. NB 7+096.467, 42.0m RT. - STA. NB 7+158.023, 13.6m RT.  
 STA. NB 7+100.138, 45.4m RT. - STA. NB 7+161.972, 13.6m RT.  
 STA. NB 7+125.785, 66.4m LT. - STA. NB 7+158.139, 28.6m LT.  
 STA. NB 7+129.495, 67.2m LT. - STA. NB 7+161.868, 28.6m LT.



**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: AC NH 019-1(52)  
 FILE NAME: ...plot\_files\zd307c2p04.pff  
 DESIGN SUPERVISOR: GREG EDWARDS  
 DESIGNED BY: MARC FOISY  
 GENERAL PLAN P-04

PLOT DATE: 5/16/2011  
 DRAWN BY: STANTEC  
 CHECKED BY: GARY SANTY  
 SHEET 74 OF 267

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**WOVEN WIRE FENCE WITH STEEL POSTS**  
 STA. NB 7+440.000, 75.6m LT. - STA. NB 7+780.000, 54.0m LT.  
 STA. NB 7+440.000, 28.5m RT. - STA. NB 7+599.345, 26.8m RT.

**CONSTRUCT DRIVE**  
 STA. QR 1+042.037, RT. (GRAVEL)  
 STA. QR 1+100.000, RT. (GRAVEL)

**BITUMINOUS CONCRETE CURB, TYPE A 610**  
 STA. NB 7+440.000, 8.7m RT. - STA. NB 7+612.803, 8.7m RT.  
 STA. NB 7+440.000, 8.7m LT. - STA. NB 7+600.000, 8.7m LT.

**STEEL BEAM GUARDRAIL, GALVANIZED**  
 STA. NB 7+440.000, 8.7m RT. - STA. NB 7+612.848, 8.7m RT.  
 STA. NB 7+440.000, 8.7m LT. - STA. NB 7+780.000, 8.7m LT.

**MANUFACTURED TERMINAL SECTION, FLARED**  
 STA. NB 7+612.848, 8.7m RT.  
 STA. NB 7+588.000, 8.7m LT.

**PROJECT DEMARCATION FENCE**  
 STA. NB 7+440.000, 65.4m LT. - STA. NB 7+497.130, 71.0m LT.  
 STA. NB 7+526.776, 17.5m RT. - STA. NB 7+628.774, 31.7m RT.  
 STA. NB 7+569.289, 54.4m LT. - STA. NB 7+780.000, 52.4m LT.  
 STA. QR 1+042.037, 5.4m RT. - STA. QR 1+094.679, 16.9m RT.  
 STA. QR 1+103.667, 16.9m RT. - STA. QR 1+190.000, 18.5m RT.

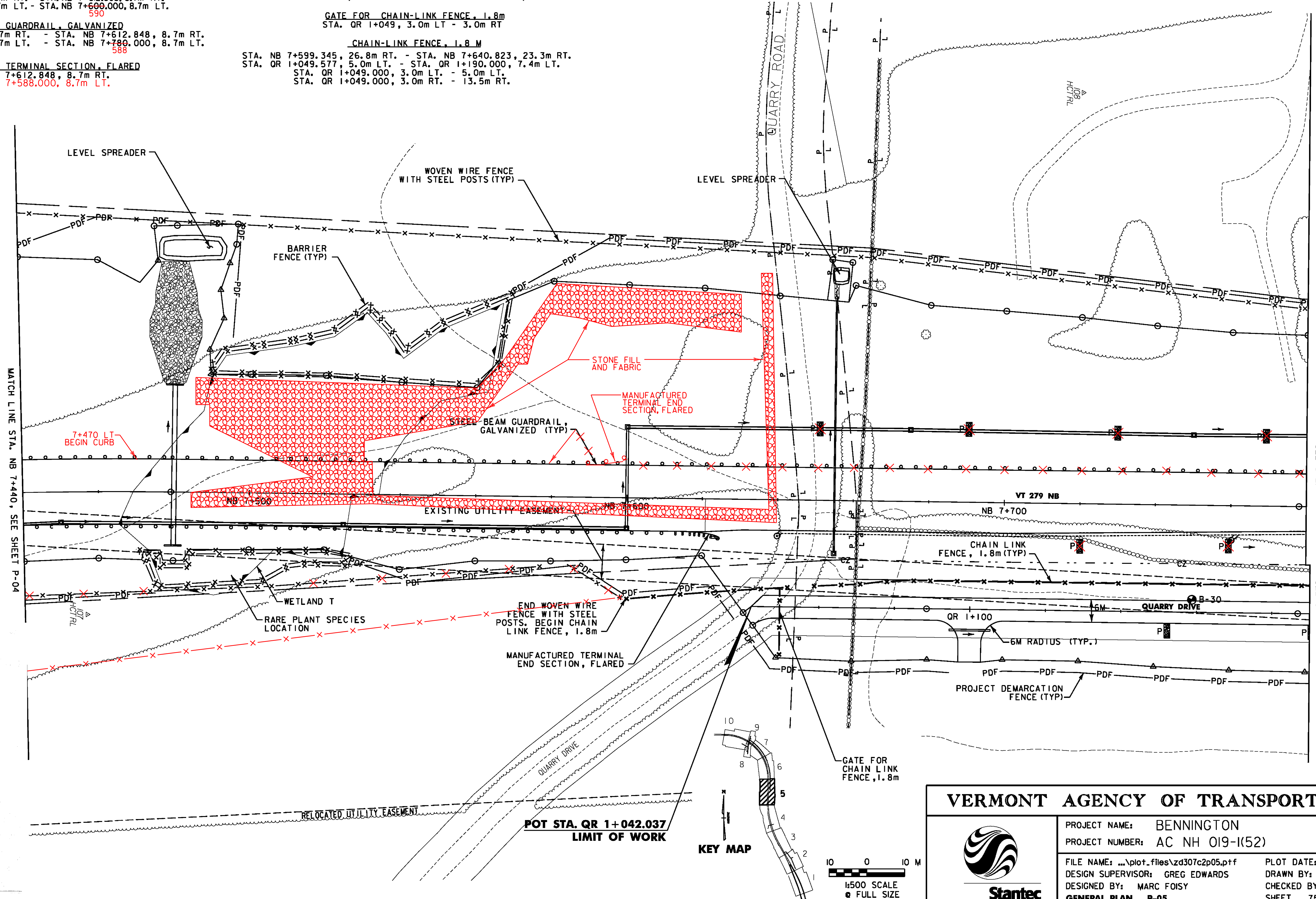
**BARRIER FENCE**  
 STA. NB 7+470.131, 15.3m RT. - STA. NB 7+527.031, 15.7m RT.  
 STA. NB 7+489.470, 31.3m LT. - STA. NB 7+569.289, 54.4m LT.

**GATE FOR CHAIN-LINK FENCE, 1.8m**  
 STA. QR 1+049, 3.0m LT - 3.0m RT

**CHAIN-LINK FENCE, 1.8m**  
 STA. NB 7+599.345, 26.8m RT. - STA. NB 7+640.823, 23.3m RT.  
 STA. QR 1+049.577, 5.0m LT. - STA. QR 1+190.000, 7.4m LT.  
 STA. QR 1+049.000, 3.0m LT. - 5.0m LT.  
 STA. QR 1+049.000, 3.0m RT. - 13.5m RT.

**STONE FILL, TYPE II**  
 STA. NB 7+460.000, 15.0m RT. - STA. NB 7+525.000, 15.2m RT. (FOR SLOPE STABILIZATION)

**GRUBBING MATERIAL**  
 STA. NB 7+460.000, 15.0m RT. - STA. NB 7+525.000, 15.2m RT. (FOR SLOPE STABILIZATION)



Drawn on Final Plans - Large lot

Calculation Book Number: \_\_\_\_\_ Calculation Sheet Number: 01/16/2

Project: Bennington AC NH 019-1(52)

Line Item: \_\_\_\_\_ Page Number: \_\_\_\_\_ of \_\_\_\_\_

Item: \_\_\_\_\_ Field Measured by: \_\_\_\_\_

Location: NB 7+440 - 7+640

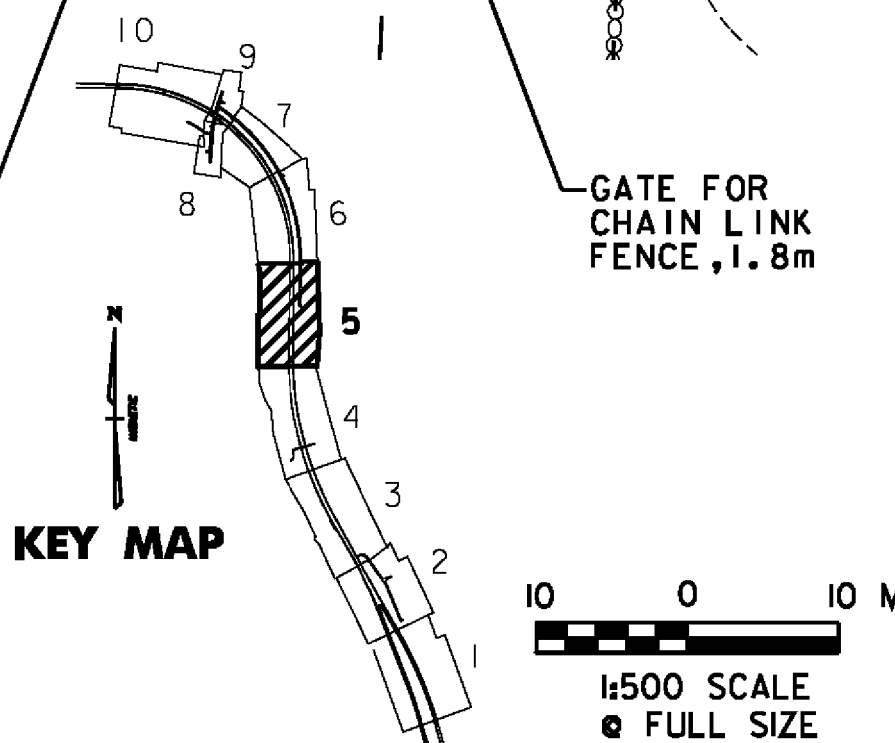
Station	Area	Stone Fill #	Chain Link	Other
7+440	24.45	30.0	0	0
7+445	24.45	30.0	0	0
7+450	24.45	30.0	0	0
7+455	24.45	30.0	0	0
7+460	24.45	30.0	0	0
7+465	24.45	30.0	0	0
7+470	24.45	30.0	0	0
7+475	24.45	30.0	0	0
7+480	24.45	30.0	0	0
7+485	24.45	30.0	0	0
7+490	24.45	30.0	0	0
7+495	24.45	30.0	0	0
7+500	24.45	30.0	0	0
7+505	24.45	30.0	0	0
7+510	24.45	30.0	0	0
7+515	24.45	30.0	0	0
7+520	24.45	30.0	0	0
7+525	24.45	30.0	0	0
7+530	24.45	30.0	0	0
7+535	24.45	30.0	0	0
7+540	24.45	30.0	0	0
7+545	24.45	30.0	0	0
7+550	24.45	30.0	0	0
7+555	24.45	30.0	0	0
7+560	24.45	30.0	0	0
7+565	24.45	30.0	0	0
7+570	24.45	30.0	0	0
7+575	24.45	30.0	0	0
7+580	24.45	30.0	0	0
7+585	24.45	30.0	0	0
7+590	24.45	30.0	0	0
7+595	24.45	30.0	0	0
7+600	24.45	30.0	0	0
7+605	24.45	30.0	0	0
7+610	24.45	30.0	0	0
7+615	24.45	30.0	0	0
7+620	24.45	30.0	0	0
7+625	24.45	30.0	0	0
7+630	24.45	30.0	0	0
7+635	24.45	30.0	0	0
7+640	24.45	30.0	0	0

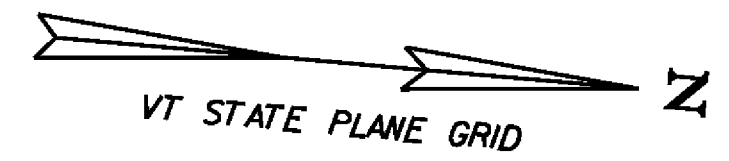
Computed by: \_\_\_\_\_ Date: \_\_\_\_\_ Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

**VERMONT AGENCY OF TRANSPORTATION**

PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: AC NH 019-1(52)

FILE NAME: ...plot\_files\zd307c2p05.pff PLOT DATE: 5/16/2011  
 DESIGN SUPERVISOR: GREG EDWARDS DRAWN BY: STANTEC  
 DESIGNED BY: MARC FOISY CHECKED BY: GARY SANTY  
 GENERAL PLAN P-05 SHEET 75 OF 267





**WOVEN WIRE FENCE WITH STEEL POSTS**  
 STA. NB 7+780.000, 54.0m LT. - STA. NB 8+090.000, 54.0m LT.

**CONSTRUCT DRIVE**  
 STA. OR 1+433.342, RT (7.2m GRAVEL)  
 STA. OR 1+480.047, RT (7.2m GRAVEL)

**PROJECT DEMARCATION FENCE**  
 STA. NB 7+780.000, 52.4m LT. - STA. NB 8+090.000, 46.2m LT.  
 STA. NB 8+046.000, 17.0m LT. - STA. NB 8+090.000, 46.0m LT.  
 STA. NB 8+046.000, 17.0m LT. - STA. NB 8+090.000, 28.0m LT.  
 STA. QR 1+190.000, 16.0m RT. - STA. QR 1+427.000, 12.0m RT.  
 STA. QR 1+442.000, 12.8m RT. - STA. QR 1+475.000, 11.8m RT.  
 STA. QR 1+487.000, 12.6m RT. - STA. QR 1+510.000, 12.7m RT.

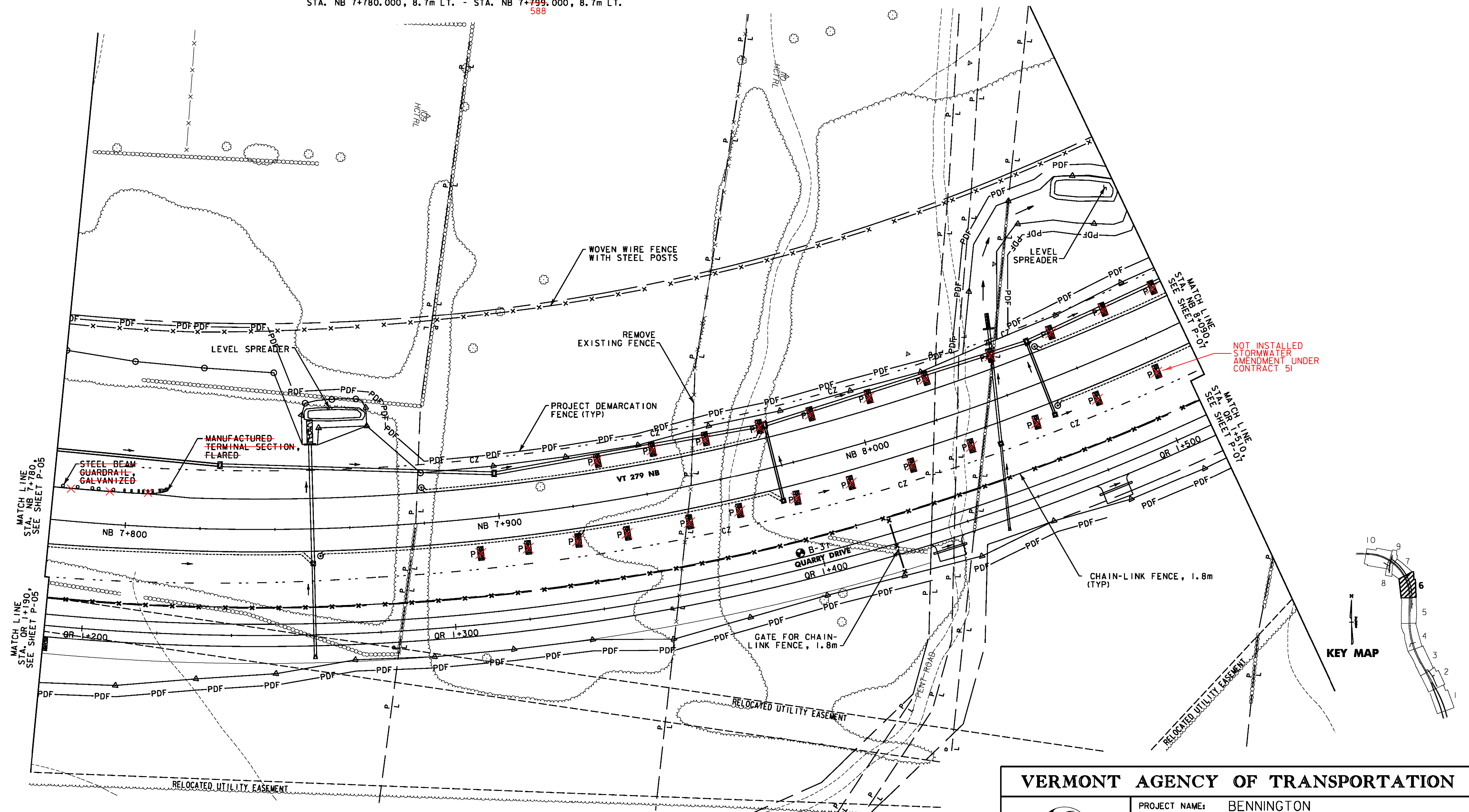
**REMOVAL OF EXISTING FENCE**  
 STA. NB 7+940.000, 40.0m RT. - STA. NB 7+970.048, 54.0m LT.

**GATE FOR CHAIN-LINK FENCE, 1.8m**  
 STA. OR 1+420, 3.0m LT - 3.0m RT

**MANUFACTURED TERMINAL SECTION, FLARED**  
 STA. NB 7+799.000, 8.7m LT.  
 7+588.000

**STEEL BEAM GUARDRAIL, GALVANIZED**  
 STA. NB 7+780.000, 8.7m LT. - STA. NB 7+799.000, 8.7m LT.  
 588

**CHAIN-LINK FENCE, 1.8 M**  
 STA. OR 1+190.000, 7.4m LT. - STA. OR 1+510.000, 7.4m LT.  
 STA. OR 1+420.000, 3.0m LT. - 7.4m LT.  
 STA. OR 1+420.000, 3.0m RT. - 8.9m RT.



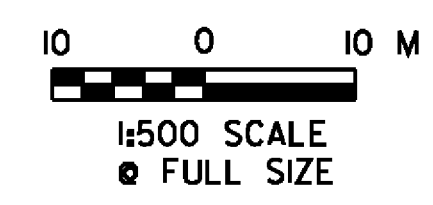
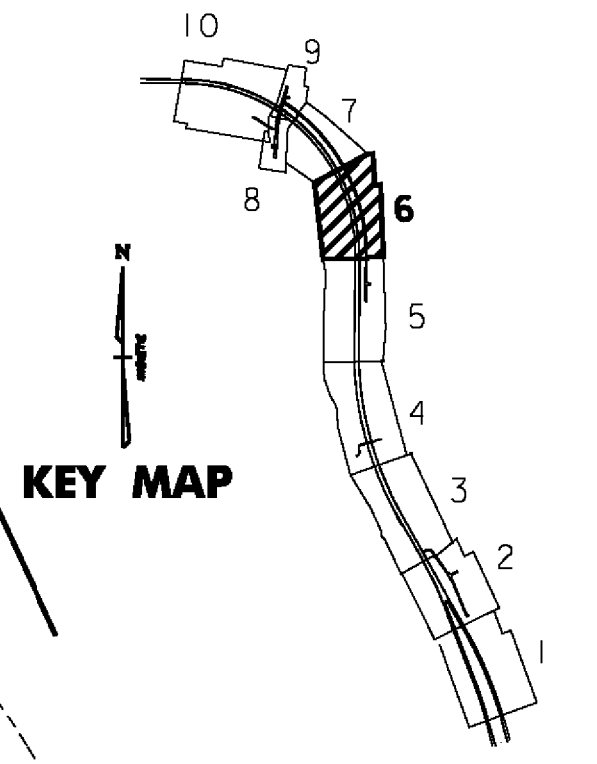
NOT INSTALLED  
 STORMWATER  
 AMENDMENT UNDER  
 CONTRACT 51

MATCH LINE  
 STA. NB 7+780,  
 SEE SHEET P-05

MATCH LINE  
 STA. OR 1+190,  
 SEE SHEET P-05

MATCH LINE  
 STA. NB 8+090,  
 SEE SHEET P-07

MATCH LINE  
 STA. OR 1+510,  
 SEE SHEET P-07



**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME:	BENNINGTON	FILE NAME:	...plot_files\zd307c2p06.ptf	PLOT DATE:	5/16/2011
PROJECT NUMBER:	AC NH 019-1(52)	DESIGN SUPERVISOR:	GREG EDWARDS	DRAWN BY:	STANTEC
		DESIGNED BY:	MARC FOISY	CHECKED BY:	GARY SANTY
		GENERAL PLAN	P-06	SHEET	76 OF 267

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**WOVEN WIRE FENCE WITH STEEL POSTS**  
 STA. NB 8+090.000, 54.0m LT. - STA. NB 8+305.480, 53.4m LT.

**PROJECT DEMARCATION FENCE**  
 STA. NB 8+090.000, 19.0m LT. - STA. NB 8+247.000, 114.0m LT.  
 STA. QR 1+510.000, 12.7m RT. - STA. QR 1+745.000, 15.1m RT.

**CHAIN-LINK FENCE, 1.8 M**  
 STA. QR 1+510.000, 7.4m LT. - STA. QR 1+750.000, 7.4m LT.

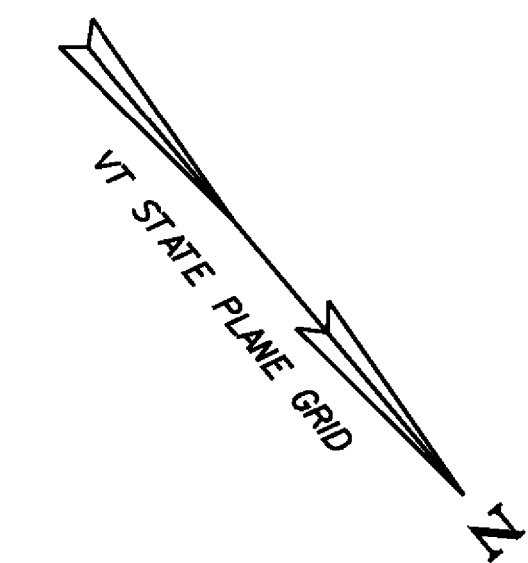
**BITUMINOUS CONCRETE CURB, TYPE A**  
 STA. NB 8+201.015, 8.7m LT. - STA. NB 8+307.394, 8.7m LT.  
 220.000 310

**MANUFACTURED TERMINAL SECTION, FLARED**  
 STA. NB 8+135.029, 6.6m RT.  
 STA. NB 8+197.169, 8.7m LT.  
 218.000

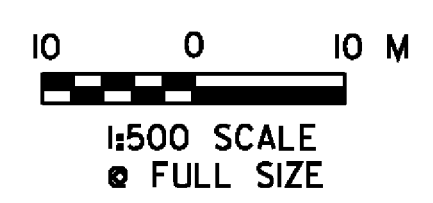
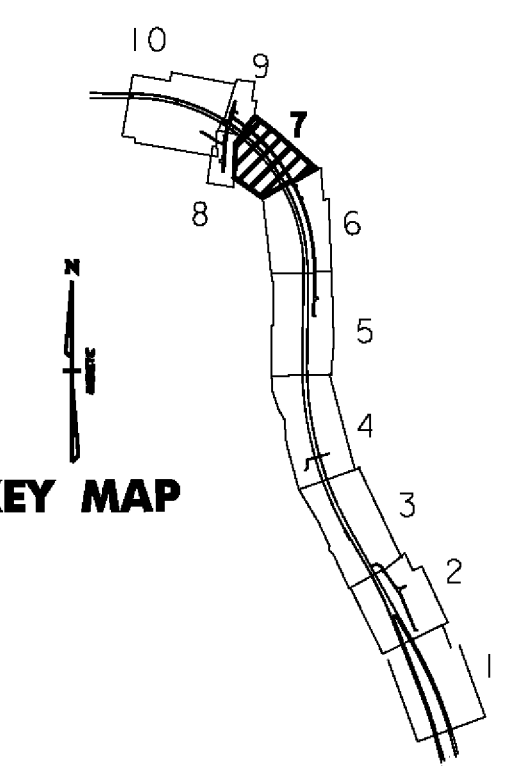
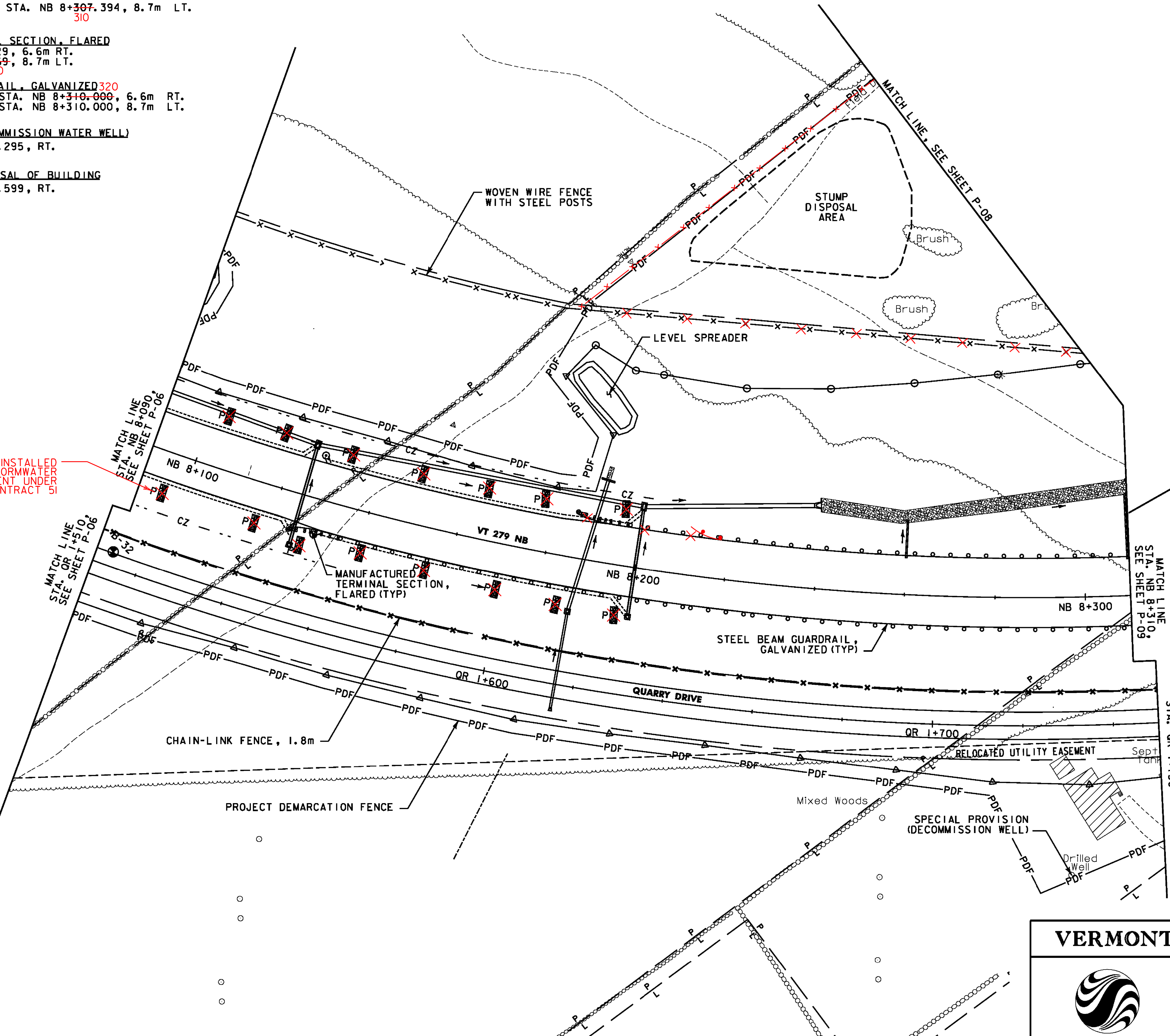
**136 STEEL BEAM GUARDRAIL, GALVANIZED 320**  
 STA. NB 8+135.029, 6.6m RT. - STA. NB 8+310.000, 6.6m RT.  
 STA. NB 8+197.169, 8.7m LT. - STA. NB 8+310.000, 8.7m LT.  
 218.000

**SPECIAL PROVISION (DECOMMISSION WATER WELL)**  
 STA. QR 1+730.295, RT.

**DEMOLITION AND DISPOSAL OF BUILDING**  
 STA. NB 8+301.599, RT.



NOT INSTALLED  
 STORMWATER  
 AMENDMENT UNDER  
 CONTRACT 51



**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: AC NH 019-1(52)  
 FILE NAME: ...plot.files\zd307c2p07.ptf PLOT DATE: 5/16/2011  
 DESIGN SUPERVISOR: GREG EDWARDS DRAWN BY: STANTEC  
 DESIGNED BY: MARC FOISY CHECKED BY: GARY SANTY  
 GENERAL PLAN P-07 SHEET 77 OF 267

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**DRIVE GATE FOR WOVEN WIRE FENCE**  
 STA. DR 1+012.033, 2.5m LT. - 2.5m RT.

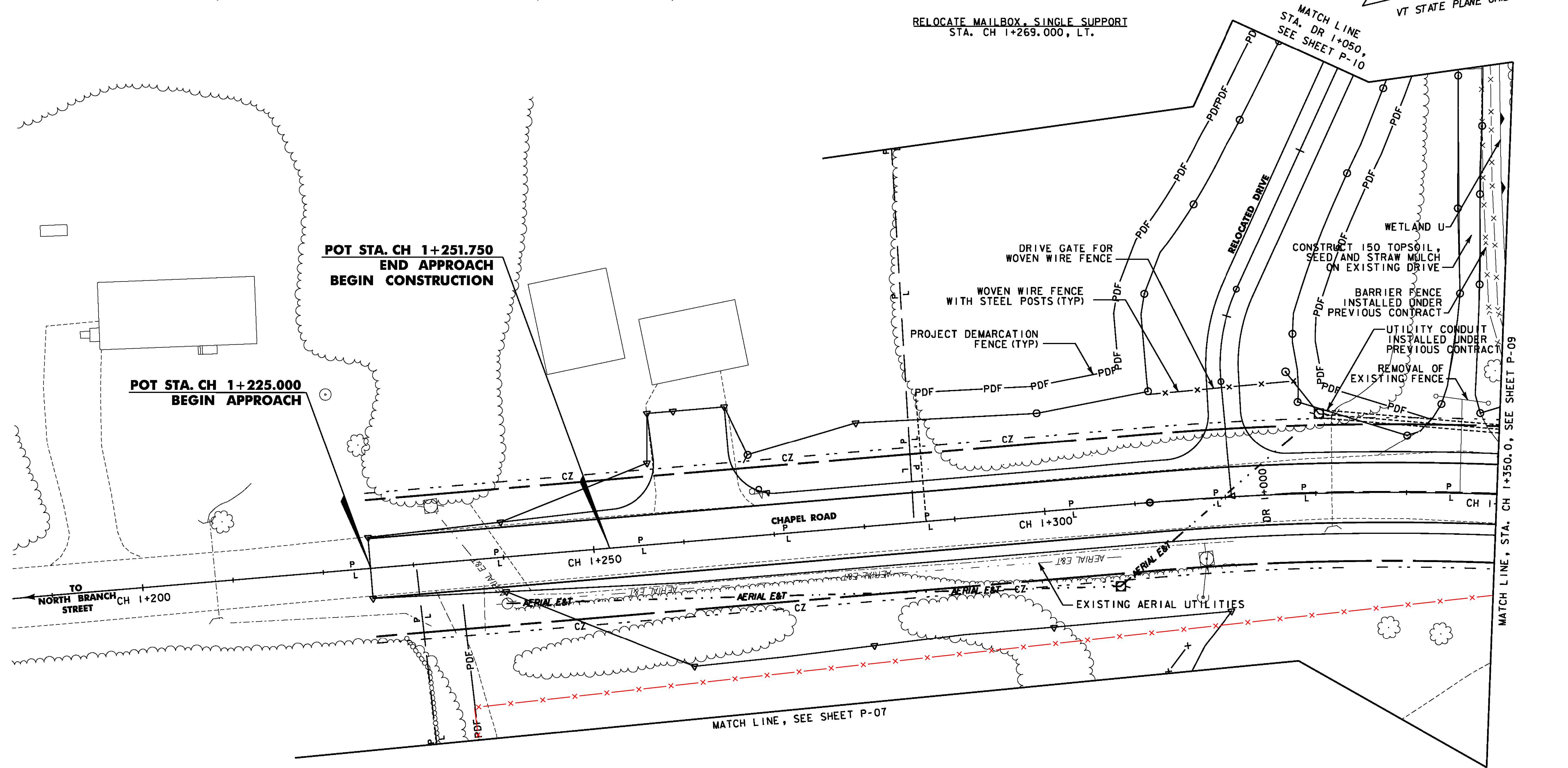
**WOVEN WIRE FENCE WITH STEEL POSTS**  
 STA. DR 1+012.033, 2.5m LT. - 8.2m LT.  
 STA. DR 1+012.033, 2.5m RT. - 8.5m RT.

**CONSTRUCT DRIVE**  
 STA. CH 1+261.410, LT. (8.4 m GRAVEL)  
 STA. DR 1+004.466 - STA. DR 1+050.000 (3.6 m GRAVEL)

**REMOVAL OF EXISTING FENCE**  
 STA. CH 1+343.117, LT. - CH 1+348.737, LT.

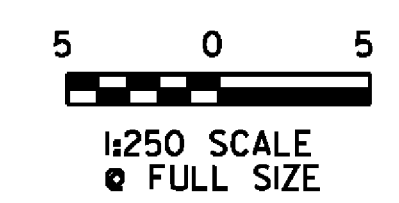
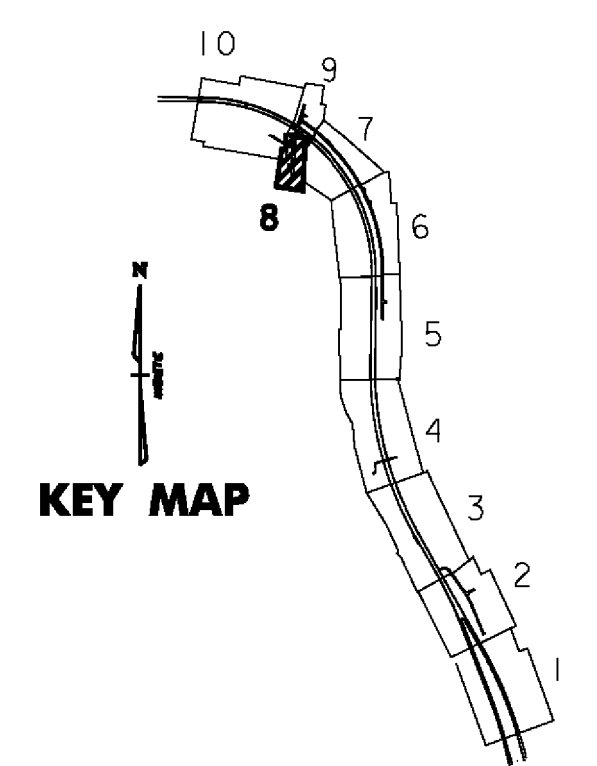
**PROJECT DEMARCATION FENCE**  
 STA. CH 1+236.000, 6.0m RT. - STA. CH 1+238.000, 19.5m RT.  
 STA. CH 1+285.000, 14.3m LT. - STA. CH 1+310.000, 14.9m LT.  
 STA. CH 1+330.845, 11.9m LT. - STA. CH 1+342.670, 8.1m LT.  
 STA. DR 1+011.346, RT. - STA. DR 1+050.000, RT.  
 STA. DR 1+014.307, LT. - STA. DR 1+050.000, LT.

**RELOCATE MAILBOX, SINGLE SUPPORT**  
 STA. CH 1+269.000, LT.



**POT STA. CH 1+251.750  
 END APPROACH  
 BEGIN CONSTRUCTION**

**POT STA. CH 1+225.000  
 BEGIN APPROACH**



<b>VERMONT AGENCY OF TRANSPORTATION</b>	
	PROJECT NAME: BENNINGTON
	PROJECT NUMBER: AC NH 019-1(52)
FILE NAME: ...\plot_files\zd307c2p08.pff	PLOT DATE: 5/16/2011
DESIGN SUPERVISOR: GREG EDWARDS	DRAWN BY: STANTEC
DESIGNED BY: MARC FOISY	CHECKED BY: GARY SANTY
<b>GENERAL PLAN P-08</b>	SHEET 78 OF 267

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**CONSTRUCT DRIVE**  
STA. CH 1+430.563, RT. (4.4 m GRAVEL)

**BARRIER FENCE**  
STA. CH 1+420.000 - CH 1+470.000, LT.

**STEEL BEAM GUARDRAIL, GALVANIZED**  
STA. NB 8+310.000, 8.7m LT. - STA. NB 8+310.790, 8.7m LT.  
STA. NB 8+310.000, 6.6m RT. - STA. NB 8+316.790, 6.6m RT.  
STA. NB 8+377.340, 8.7m LT. - STA. NB 8+390.000, 8.7m LT.  
STA. NB 8+383.110, 6.6m RT. - STA. NB 8+390.000, 6.6m RT.

**PROJECT DEMARCATION FENCE**  
STA. QR 1+750.000, 12.9m RT. - STA. QR 1+782.687, 19.6m RT.

**SPECIAL PROVISION (REMOVE AND STOCKPILE STONE WALL)**  
STA. CH 1+435.7, RT. - STA. CH 1+459.9, RT.

**GATE FOR CHAIN-LINK FENCE, 1.8m**  
STA. QR 1+784.602, 3.6m LT. - STA. QR 1+786.567, 3.6m RT.

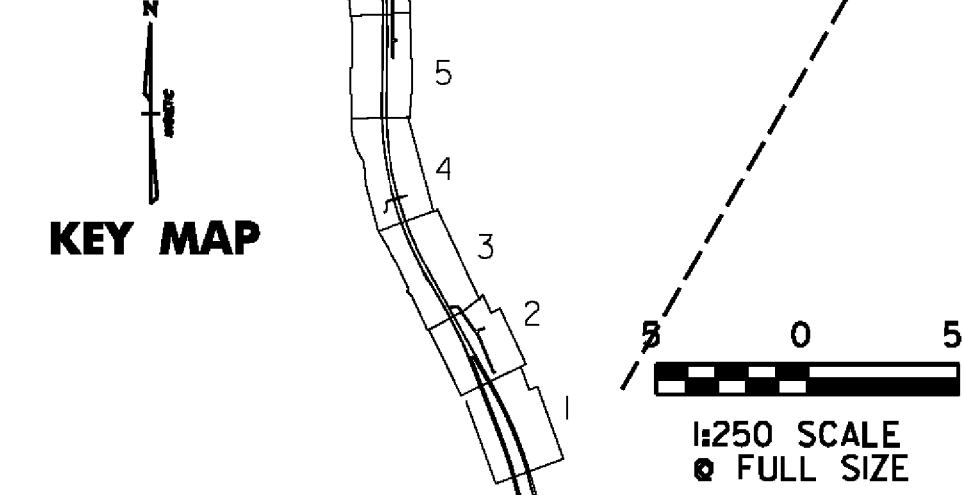
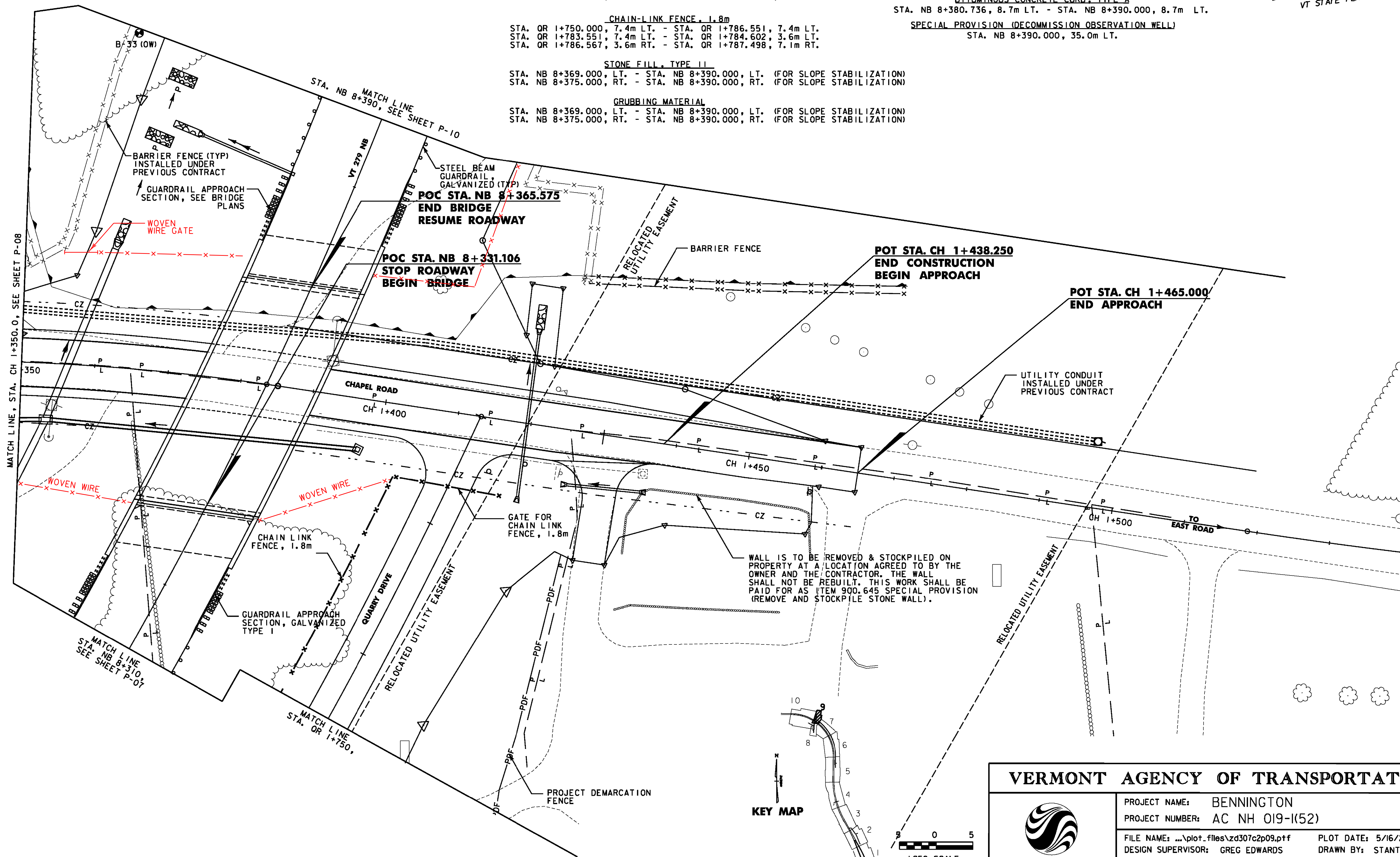
**BITUMINOUS CONCRETE CURB, TYPE A**  
STA. NB 8+380.736, 8.7m LT. - STA. NB 8+390.000, 8.7m LT.

**CHAIN-LINK FENCE, 1.8m**  
STA. QR 1+750.000, 7.4m LT. - STA. QR 1+786.551, 7.4m LT.  
STA. QR 1+783.551, 7.4m LT. - STA. QR 1+784.602, 3.6m LT.  
STA. QR 1+786.567, 3.6m RT. - STA. QR 1+787.498, 7.1m RT.

**SPECIAL PROVISION (DECOMMISSION OBSERVATION WELL)**  
STA. NB 8+390.000, 35.0m LT.

**STONE FILL, TYPE II**  
STA. NB 8+369.000, LT. - STA. NB 8+390.000, LT. (FOR SLOPE STABILIZATION)  
STA. NB 8+375.000, RT. - STA. NB 8+390.000, RT. (FOR SLOPE STABILIZATION)

**GRUBBING MATERIAL**  
STA. NB 8+369.000, LT. - STA. NB 8+390.000, LT. (FOR SLOPE STABILIZATION)  
STA. NB 8+375.000, RT. - STA. NB 8+390.000, RT. (FOR SLOPE STABILIZATION)



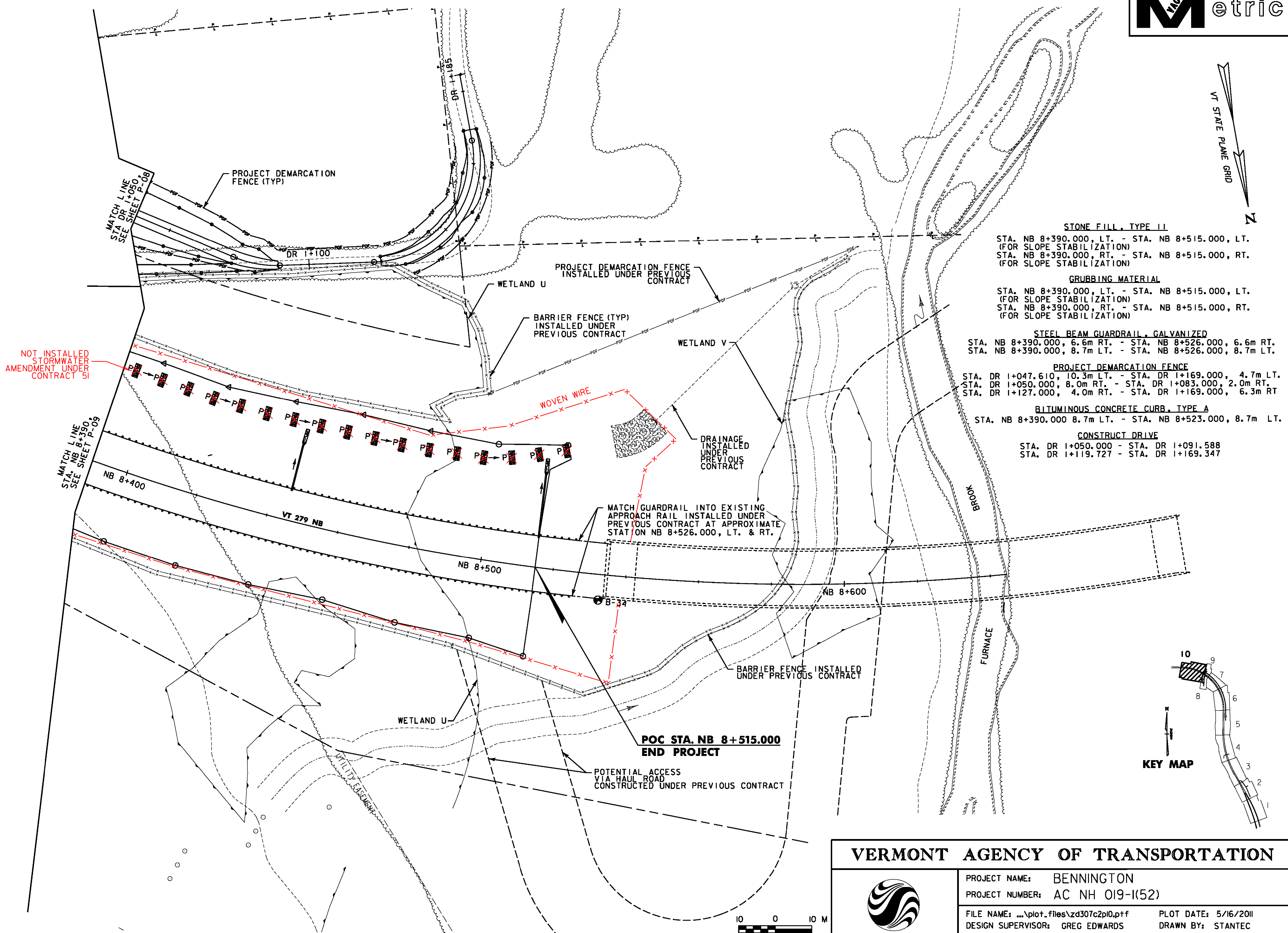
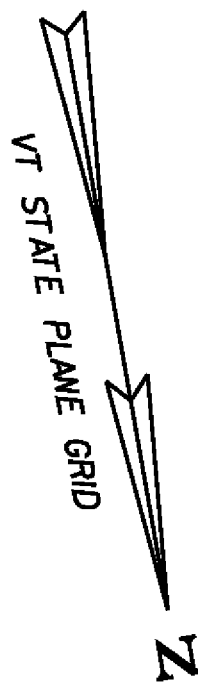
WALL IS TO BE REMOVED & STOCKPILED ON PROPERTY AT A LOCATION AGREED TO BY THE OWNER AND THE CONTRACTOR. THE WALL SHALL NOT BE REBUILT. THIS WORK SHALL BE PAID FOR AS ITEM 900.645 SPECIAL PROVISION (REMOVE AND STOCKPILE STONE WALL).

**VERMONT AGENCY OF TRANSPORTATION**



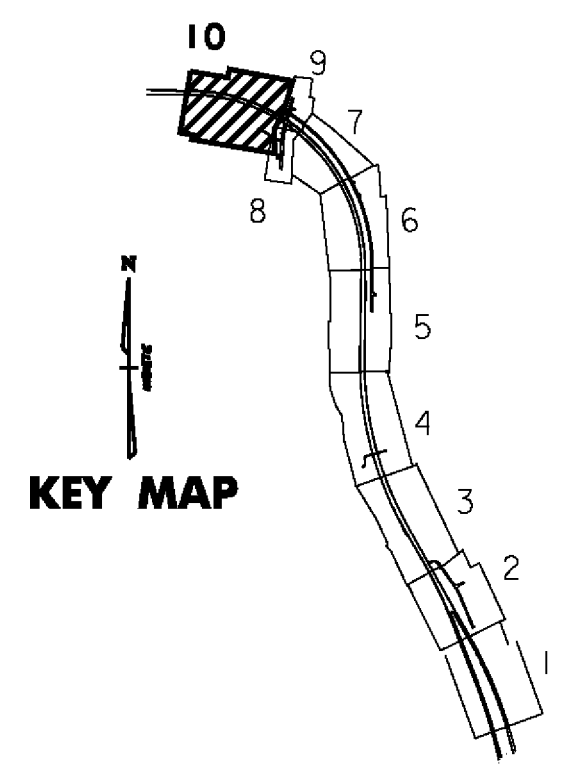
PROJECT NAME:	BENNINGTON	FILE NAME:	...plot-files\zd307c2p09.pff	PLOT DATE:	5/16/2011
PROJECT NUMBER:	AC NH 019-(K52)	DESIGN SUPERVISOR:	GREG EDWARDS	DRAWN BY:	STANTEC
		DESIGNED BY:	MARC FOISY	CHECKED BY:	GARY SANTY
		GENERAL PLAN	P-09		SHEET 79 OF 267

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NOT INSTALLED  
STORMWATER  
AMENDMENT UNDER  
CONTRACT '51

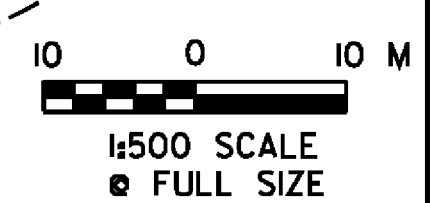
- STONE FILL, TYPE II**  
STA. NB 8+390.000, LT. - STA. NB 8+515.000, LT. (FOR SLOPE STABILIZATION)  
STA. NB 8+390.000, RT. - STA. NB 8+515.000, RT. (FOR SLOPE STABILIZATION)
- GRUBBING MATERIAL**  
STA. NB 8+390.000, LT. - STA. NB 8+515.000, LT. (FOR SLOPE STABILIZATION)  
STA. NB 8+390.000, RT. - STA. NB 8+515.000, RT. (FOR SLOPE STABILIZATION)
- STEEL BEAM GUARDRAIL, GALVANIZED**  
STA. NB 8+390.000, 6.6m RT. - STA. NB 8+526.000, 6.6m RT.  
STA. NB 8+390.000, 8.7m LT. - STA. NB 8+526.000, 8.7m LT.
- PROJECT DEMARCATION FENCE**  
STA. DR 1+047.610, 10.3m LT. - STA. DR 1+169.000, 4.7m LT.  
STA. DR 1+050.000, 8.0m RT. - STA. DR 1+083.000, 2.0m RT.  
STA. DR 1+127.000, 4.0m RT. - STA. DR 1+169.000, 6.3m RT.
- BITUMINOUS CONCRETE CURB, TYPE A**  
STA. NB 8+390.000 8.7m LT. - STA. NB 8+523.000, 8.7m LT.
- CONSTRUCT DRIVE**  
STA. DR 1+050.000 - STA. DR 1+091.588  
STA. DR 1+119.727 - STA. DR 1+169.347



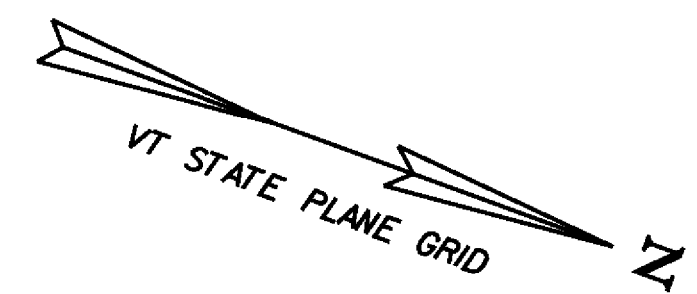
**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME: BENNINGTON  
PROJECT NUMBER: AC NH 019-1(52)  
FILE NAME: ...\\plot.files\zd307c2p10.ptf  
DESIGN SUPERVISOR: GREG EDWARDS  
DESIGNED BY: MARC FOISY  
GENERAL PLAN P-10  
PLOT DATE: 5/16/2010  
DRAWN BY: STANTEC  
CHECKED BY: GARY SANTY  
SHEET 80 OF 267



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NEW DRAINAGE PIPES		
PIPE #	LOCATION	COMMENTS
500	NB 6+425.2 RT - NB 6+440.0	600 X 40.2 m PIPE OPTION 2. CONST. END SECTION AND STONE FILL TYPE II AT OUTLET (SEE SWM-3 FOR DETAILS)
500A	NB 6+440.0 RT	750 X 1.95 m RISER PIPE OPTION 2. CONST. RISER BASE + CONST. ANTI-VORTEX DEVICE (SEE SWM-3 FOR DETAILS)
503	NB 6+485.0 - NB 6+595.0 RT	900 X <sup>81.0</sup> <sub>110.4</sub> m PIPE OPTION 2 CONST STONE FILL TYPE I OUTLET PROTECTION

STORMWATER MANAGEMENT		
STRUCTURE #	LOCATION	COMMENTS
502	NB 6+436.3 - NB 6+485.0 RT	CONST. SEDIMENTATION BASIN # 2 (SEE SHEET SWM-2 AND SWM-3 FOR DETAILS)

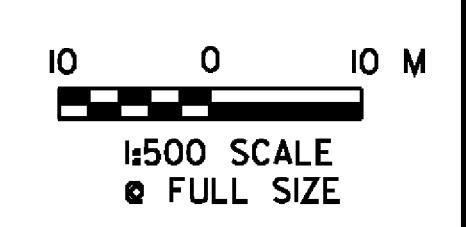
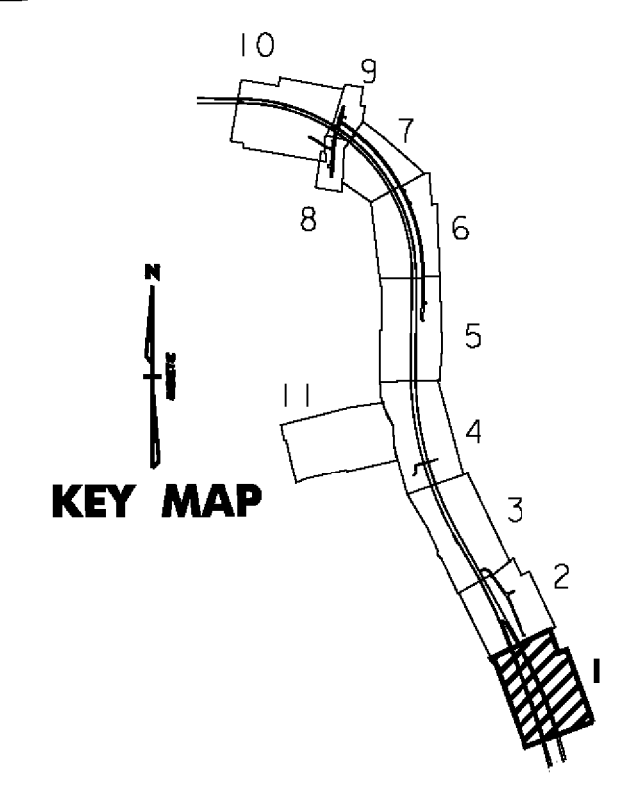
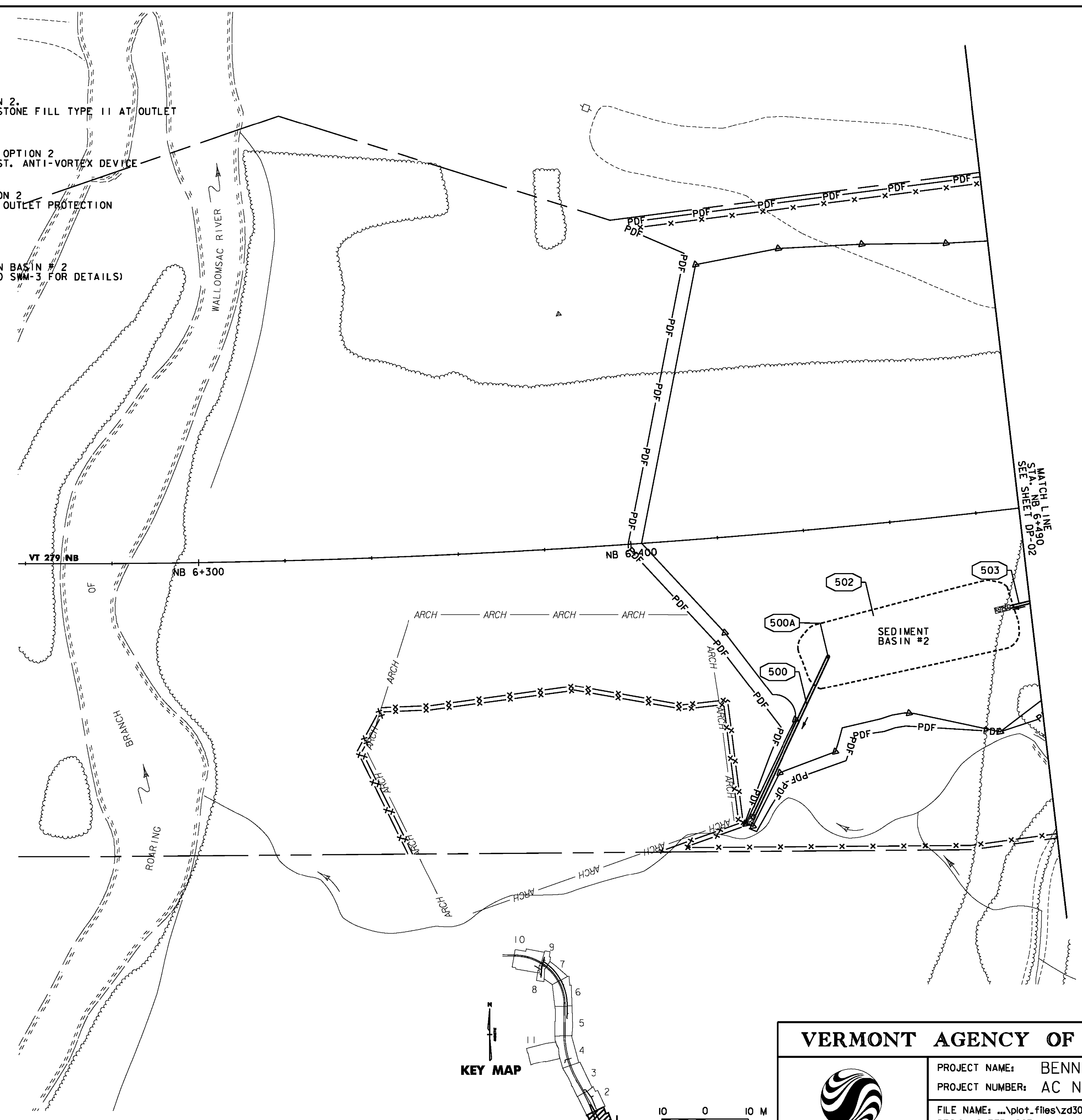
**NOTES:**

- SEE STORMWATER MANAGEMENT DETAILS SWM-5 FOR DIMENSIONS AND CONSTRUCTION DETAILS OF STONE OUTLET PROTECTION.
- SEE STORMWATER MANAGEMENT DETAILS SHEETS 2 AND 3 FOR SEDIMENTATION BASIN CONSTRUCTION DETAILS
- SEDIMENT BASIN # 2 TO REMAIN IN PLACE AFTER COMPLETION OF THIS PROJECT.

PROPOSED STORMDRAIN PIPES WHICH CROSS MATCHLINES ARE NOTED AND IDENTIFIED WITH A PIPE NUMBER AND LEADER ON THE FIRST SHEET WHERE THE PIPE OCCURS. FOR UNDERDRAIN, THE FLUSHING BASIN OR CLEAN-OUT PORTION OF THE NOTE OCCURS ON THE APPROPRIATE SHEET. FOR CLARITY ON SUBSEQUENT SHEETS, THE PIPE IS IDENTIFIED WITH THE PIPE NUMBER AND LEADER, BUT THE PIPE NOTE IS NOT REPEATED.

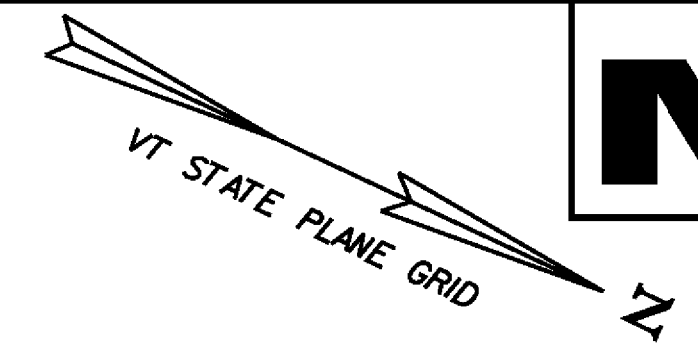
**LEGEND**

	STORM DRAIN (SHOWING DIRECTION OF FLOW)
	UNDERDRAIN (SHOWING DIRECTION OF FLOW)
	DROP INLET (1200 x 1200)
	DROP INLET (1200 x 1800)
	PRCCDI
	CATCH BASIN
	UNDERDRAIN FLUSHING BASIN (SEE VTRANS STANDARD D-30)
	STORM DRAIN WITH HEADWALL
	STORM DRAIN WITH END SECTION
	PERMANENT STONE CHECK DAM, TYPE I



<b>VERMONT AGENCY OF TRANSPORTATION</b>	
	PROJECT NAME: BENNINGTON
	PROJECT NUMBER: AC NH 019-1(52)
FILE NAME: ...plot.files\zd307c2dp01.pptf	PLOT DATE: 5/16/2011
DESIGN SUPERVISOR: GREG EDWARDS	DRAWN BY: STANTEC
DESIGNED BY: MARC FOISY	CHECKED BY: GARY SANTY
<b>DRAINAGE PLAN DP-01</b>	SHEET 81 OF 267

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STORMWATER MANAGEMENT		
STRUCTURE #	LOCATION	COMMENTS
524	NB 6+690.0 - NB 7+140.0 RT	CONST. INTERCEPTOR DITCH (SEE NOTE 1) CONST. LEVEL SPREADER AT STA. NB 6+690 (SEE SWM-1)
525	VB 1+100.0 RT	CONSTRUCT STONE FILL TYPE II AT SPILLWAY OUTLET
526	VB 1+107.0 - VB 1+114.0 LT	CONSTRUCT STONE LINED DITCH WITH STONE FILL TYPE II.

NEW DRAINAGE STRUCTURES		
STRUCTURE #	LOCATION	COMMENTS
CB503	NB 6+595.0 RT	TYPE A GRATE
D1504	NB 6+670.0 RT	TYPE A GRATE
D1505	NB 6+740.0 RT	TYPE A GRATE
D1518	NB 6+595.0 LT	TYPE A GRATE
D1519	NB 6+670.0 LT	TYPE A GRATE

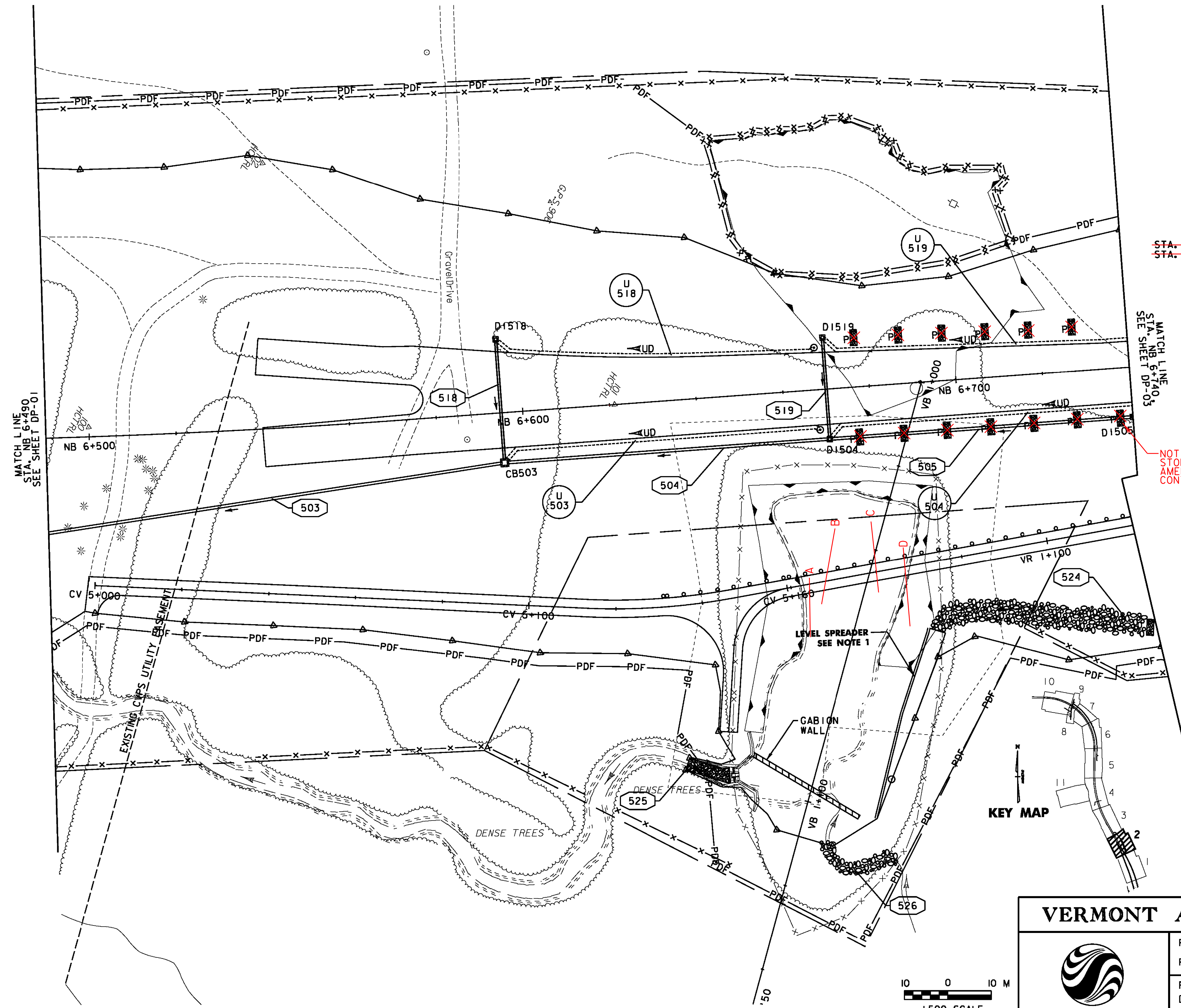
NEW DRAINAGE PIPES		
PIPE #	LOCATION	COMMENTS
504	NB 6+595.0 - NB 6+670.0 RT	600 X 74.1 m PIPE OPTION 2
505	NB 6+670.0 - NB 6+740.0 RT	600 X 69.4 m PIPE OPTION 2
518	NB 6+595.0 LT-RT	450 X 27.6 m PIPE OPTION 3
519	NB 6+670.0 LT-RT	450 X 22.9 m CPEP (SL)

UNDERDRAIN	
U 503	CONST. & NB 6+595.0 - NB 6+670.0 RT. NEW 150 mm x 69.0 m UND. W/FLUSHING BASIN @ 6+668.0, RT.
U 504	CONST. & NB 6+670.0 - NB 6+760.0 RT. NEW 150 mm x 84.0 m UND. W/FLUSHING BASIN SEE DP-03
U 518	CONST. & NB 6+595.0 - NB 6+670.0 LT. NEW 150 mm x 69.2 m UND. W/FLUSHING BASIN @ NB 6+668.0, LT.
U 519	CONST. & NB 6+670.0 - NB 7+040.0 LT. NEW 150 mm x 383.2 m UND. W/FLUSHING BASINS SEE DP-03

**PERMANENT STONE CHECK DAMS - TYPE I**  
~~STA. NB 6+676.185, 11.5m RT. STA. NB 6+737.874, 11.6m RT.~~  
~~STA. A 1+700.294, 5.5m LT. STA. A 1+762.096, 6.3m LT.~~

UNDERDRAIN ADDED TO CONTRACT		
	INV. INLET	INV. OUTLET
A)	NB 6+664.5 - 56.50m RT ELEV. 290.22	NB 6+666.9 - 42.8m RT ELEV.
B)	NB 6+665.4 - 49.23m RT ELEV. 289.13	NB 6+670.5 - 31.5m RT ELEV. 288.93
C)	NB 6+679.5 - 48.00m RT ELEV. 289.8	NB 6+679.8 - 31.4m RT ELEV. 289.42
D)	NB 6+686.0 - 55.79m RT ELEV.	NB 6+686.67 - 37.5m RT ELEV. 290.65

NOT INSTALLED  
STORMWATER  
AMENDMENT UNDER  
CONTRACT 51



MATCH LINE  
STA. NB 6+740.0  
SEE SHEET DP-03

MATCH LINE  
STA. NB 6+490  
SEE SHEET DP-01

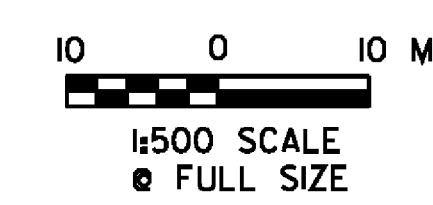
KEY MAP

**NOTES:**  
 1. SEE STORMWATER MANAGEMENT DETAIL SHEET SWM-1 FOR DIMENSIONS AND CONSTRUCTION DETAILS FOR INTERCEPTOR DITCH AND LEVEL SPREADER. EARTHWORK FOR INTERCEPTOR DITCH AND LEVEL SPREADER SHALL BE PAID FOR UNDER ITEM 204.20 (TRENCH EXCAVATION).

**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: AC NH 019-1(52)  
 FILE NAME: ...plot\_files\zd307c2dp02.ppt  
 DESIGN SUPERVISOR: GREG EDWARDS  
 DESIGNED BY: MARC FOISY  
 DRAINAGE PLAN DP-02  
 PLOT DATE: 5/16/2011  
 DRAWN BY: STANTEC  
 CHECKED BY: GARY SANTY  
 SHEET 82 OF 267

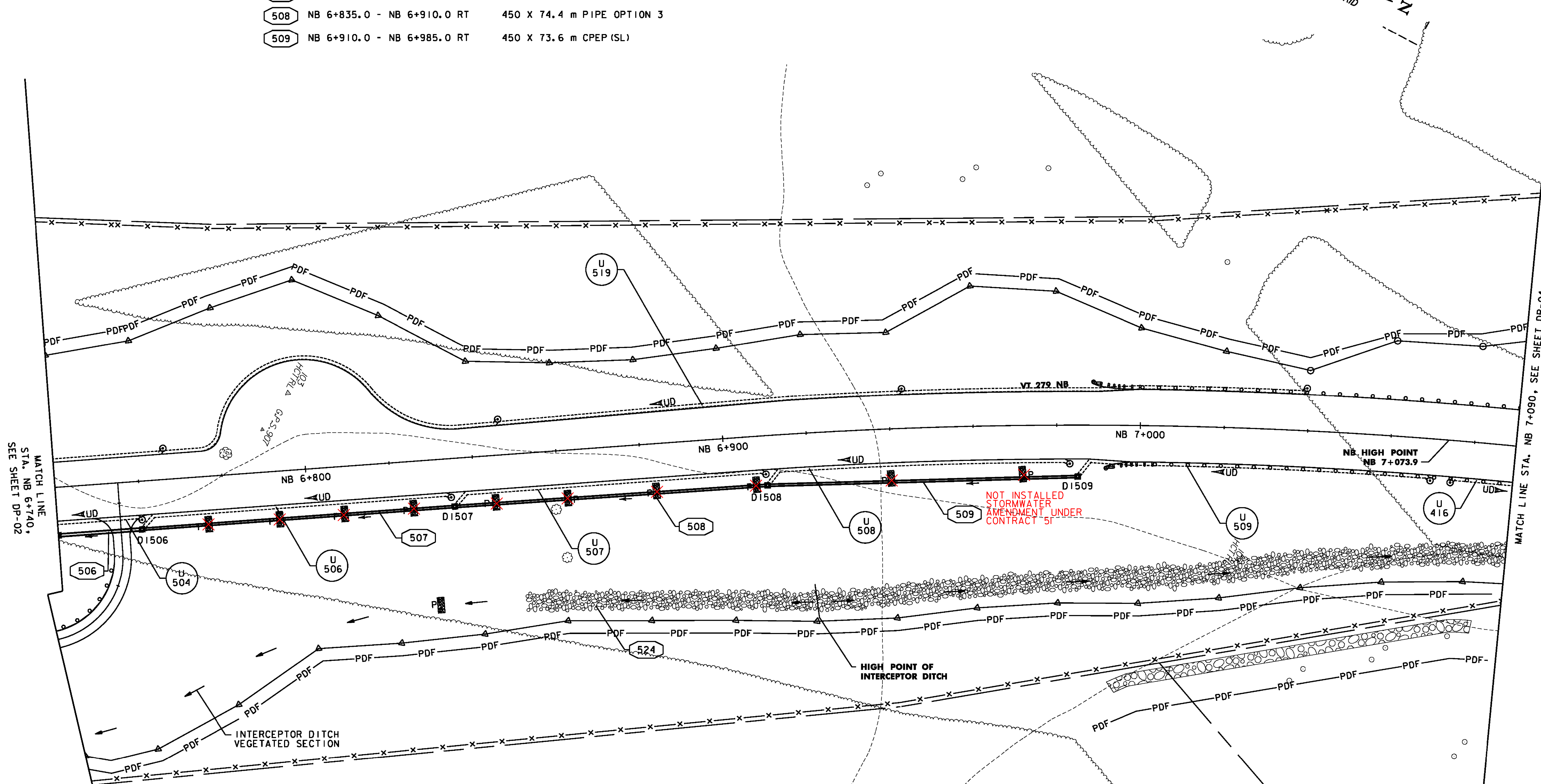
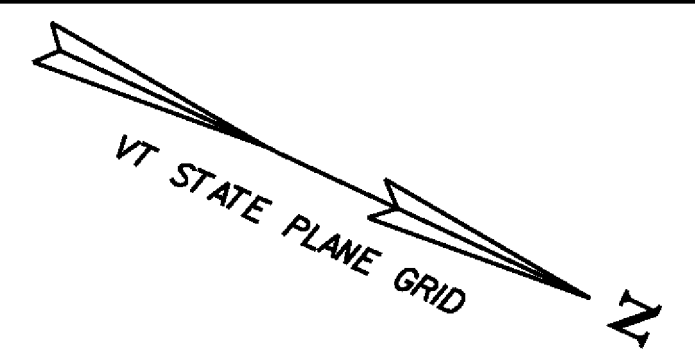


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NEW DRAINAGE STRUCTURES		
STRUCTURE #	LOCATION	COMMENTS
D1506	NB 6+760.0 RT	TYPE A GRATE
D1507	NB 6+835.0 RT	TYPE A GRATE
D1508	NB 6+910.0 RT	TYPE A GRATE
D1509	NB 6+985.0 RT	TYPE A GRATE

NEW DRAINAGE PIPES		
PIPE #	LOCATION	COMMENTS
506	NB 6+740.0 - NB 6+760.0 RT	600 X 19.4 m PIPE OPTION 3
507	NB 6+760.0 - NB 6+835.0 RT	600 X 74.4 m PIPE OPTION 3
508	NB 6+835.0 - NB 6+910.0 RT	450 X 74.4 m PIPE OPTION 3
509	NB 6+910.0 - NB 6+985.0 RT	450 X 73.6 m CPEP (SL)

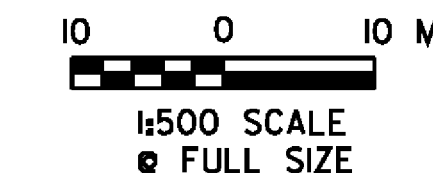
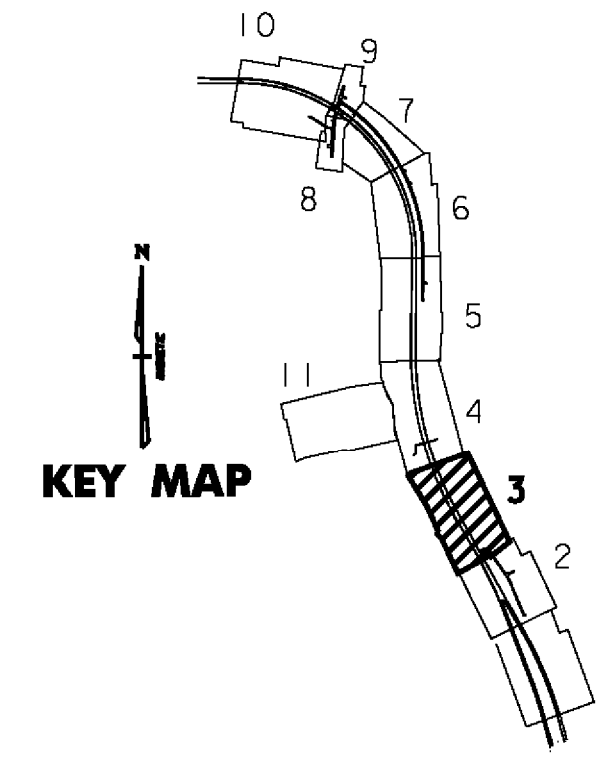
~~PERMANENT STONE CHECK DAMS, TYPE 1~~  
~~STA. NB 6+775.161, 11.4m RT. STA. NB 6+970.930, 11.7m RT.~~  
~~STA. NB 6+829.242, 34.8m RT.~~



- NOTES:**
- PIPE STATIONING REFLECTS BREAKS AT SHEET MATCHLINES. PIPE LENGTHS REFLECT ACTUAL PIPE SEGMENTS & MATCH THE SUMMARY SHEETS.
  - SEE STORMWATER MANAGEMENT DETAIL SHEET SWM-1 FOR DIMENSIONS AND CONSTRUCTION DETAILS FOR INTERCEPTOR DITCH. EXCAVATION FOR INTERCEPTOR DITCH SHALL BE PAID FOR UNDER ITEM 204.20 (TRENCH EXCAVATION).

- U 504 SEE DP-02 FOR STATIONING AND LENGTH FLUSHING BASIN AT 6+760.0, RT.
- U 506 CONST. @ NB 6+760.0 - NB 6+835.0, RT. NEW 150 mm x 69.0 m UND. W/FLUSHING BASIN @ NB 6+834.0, RT.
- U 507 CONST. @ NB 6+835.0 - NB 6+910.0, RT. NEW 150 mm x 69.0 m UND. W/FLUSHING BASIN @ NB 6+910.0, RT.
- U 508 CONST. @ NB 6+910.0 - NB 6+985.0, RT. NEW 150 mm x 68.5 m UND. W/FLUSHING BASIN @ NB 6+983.0, RT.

- U 509 CONST. @ NB 6+985.0 - NB 7+070.0, RT. NEW 150 mm x 81.0 m UND. W/FLUSHING BASIN @ NB 7+070.0, RT.
- U 519 SEE DP-02 FOR STATIONING AND LENGTH FLUSHING BASINS @ NB 6+766.3, LT., NB 6+846.7, LT., NB 6+943.2, LT., NB 7+040.0 LT., 6+670 LT.
- U 416 CONST. @ NB 7+075.0 - NB 7+130, RT. NEW 150 mm x 54.8 m UND. W/FLUSHING BASIN @ 7+075.0, RT. NEW 150 x 10 m CARRIER PIPE FOR OUTLET



**VERMONT AGENCY OF TRANSPORTATION**



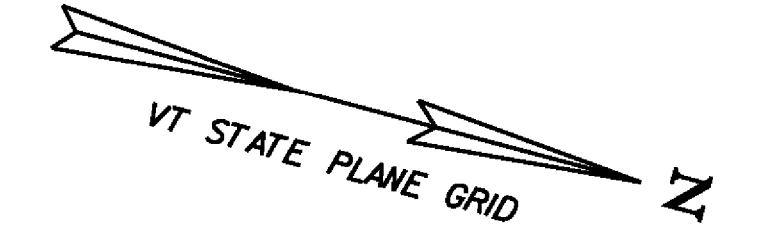
PROJECT NAME: BENNINGTON	PLOT DATE: 5/16/2011
PROJECT NUMBER: AC NH 019-1(52)	DRAWN BY: STANTEC
FILE NAME: ...plot_files\zd307c2dp03.ppf	DESIGNED BY: MARC FOISY
DESIGN SUPERVISOR: GREG EDWARDS	CHECKED BY: GARY SANTY
DRAINAGE PLAN DP-03	SHEET 83 OF 267

NEW DRAINAGE STRUCTURES		
STRUCTURE #	LOCATION	COMMENTS
D1415	NB 7+375.0 RT	TYPE A GRATE
D1416	NB 7+300.0 RT	TYPE A GRATE
D1417	NB 7+225.0 RT	TYPE A GRATE
D1434	NB 7+165.0 RT	TYPE A GRATE
D1435	NB 7+180.0 RT	TYPE A GRATE

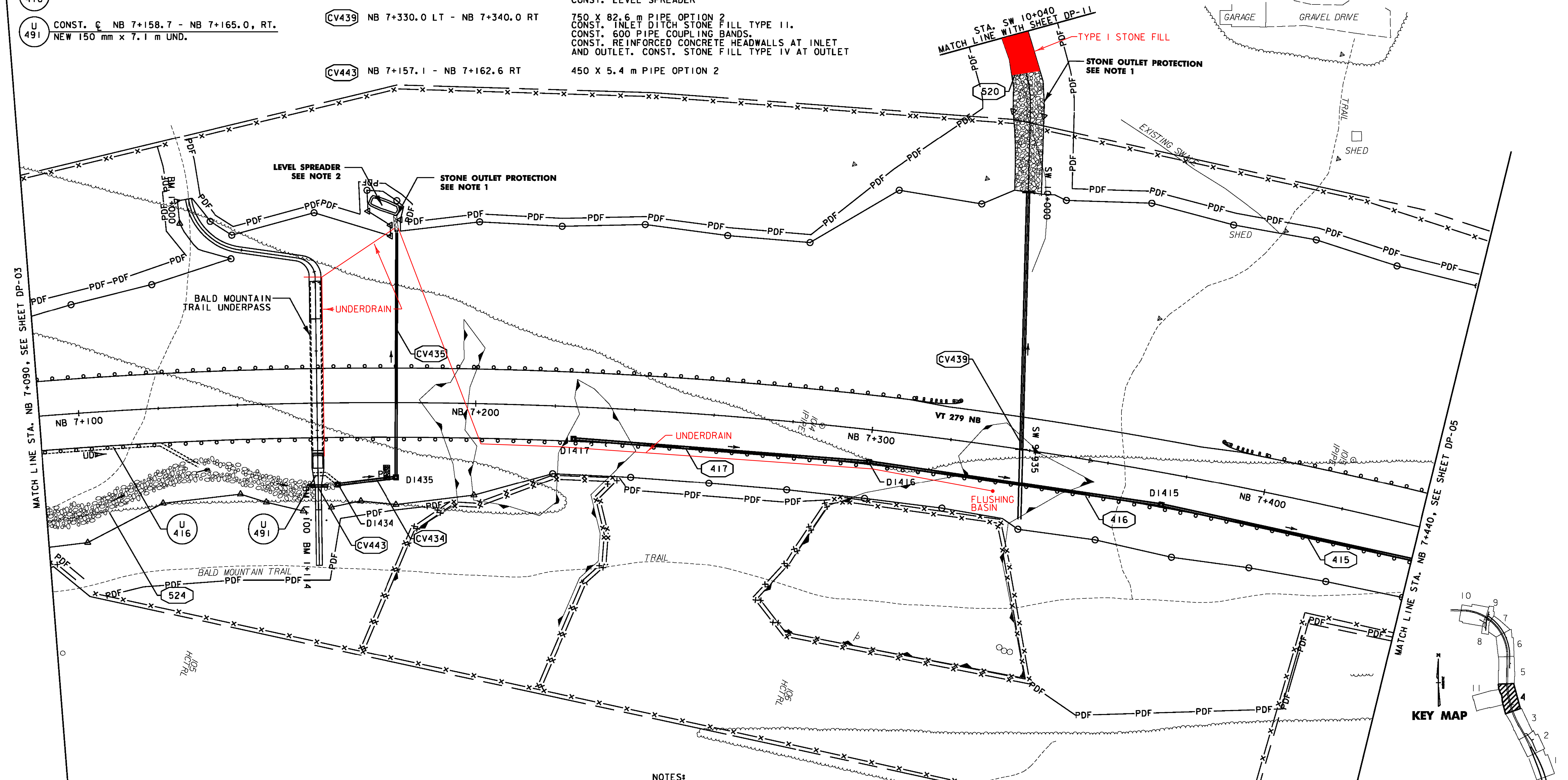
NEW DRAINAGE PIPES		
PIPE #	LOCATION	COMMENTS
415	NB 7+375.0 - NB 7+450.0 RT	450 X 73.8 m CPEP (SL)
416	NB 7+300.0 - NB 7+375.0 RT	450 X 73.8 m CPEP (SL)
417	NB 7+225.0 - NB 7+300.0 RT	450 X 73.8 m CPEP (SL)
CV434	NB 7+165.0 - NB 7+180.0 RT	450 X 14.2 m CPEP (SL)
CV435	NB 7+180.0 LT-RT	450 X 61.6 m PIPE OPTION 2 CONST. END SECTION AND STONE FILL TYPE II AT OUTLET CONST. LEVEL SPREADER
CV439	NB 7+330.0 LT - NB 7+340.0 RT	750 X 82.6 m PIPE OPTION 2 CONST. INLET DITCH STONE FILL TYPE II. CONST. 600 PIPE COUPLING BANDS. CONST. REINFORCED CONCRETE HEADWALLS AT INLET AND OUTLET. CONST. STONE FILL TYPE IV AT OUTLET
CV443	NB 7+157.1 - NB 7+162.6 RT	450 X 5.4 m PIPE OPTION 2

STORMWATER MANAGEMENT		
STRUCTURE #	LOCATION	COMMENTS
520	SW 10+029.8 - SW 10+200.0	CONST. VEG. SWALE 5 (SEE DP-11 FOR SWALE TYPICAL)

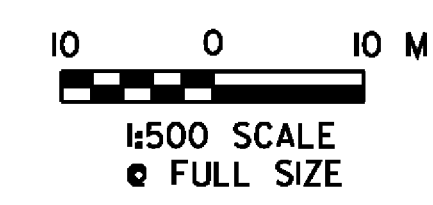
PERMANENT STONE CHECK DAMS, TYPE I  
STA. NB 7+170.806, 17.6m RT.



- UNDERDRAIN**
- U 416 SEE DP-03 FOR STATIONING AND LENGTH
  - U 491 CONST. C NB 7+158.7 - NB 7+165.0, RT.  
NEW 150 mm x 7.1 m UND.



- NOTES:**
- SEE STORMWATER MANAGEMENT DETAILS SHEET SWM-5 FOR DIMENSIONS AND CONSTRUCTION DETAILS OF STONE OUTLET PROTECTION.
  - SEE STORMWATER MANAGEMENT DETAILS SHEET SWM-1 FOR DIMENSIONS AND CONSTRUCTION DETAILS OF LEVEL SPREADERS. EARTHWORK FOR LEVEL SPREADERS SHALL BE PAID FOR UNDER ITEM 204.20 (TRENCH EXCAVATION).
  - PIPE STATIONING REFLECTS BREAKS AT SHEET MATCHLINES. PIPE LENGTHS REFLECT ACTUAL PIPE SEGMENTS & MATCH THE SUMMARY SHEETS.



**VERMONT AGENCY OF TRANSPORTATION**



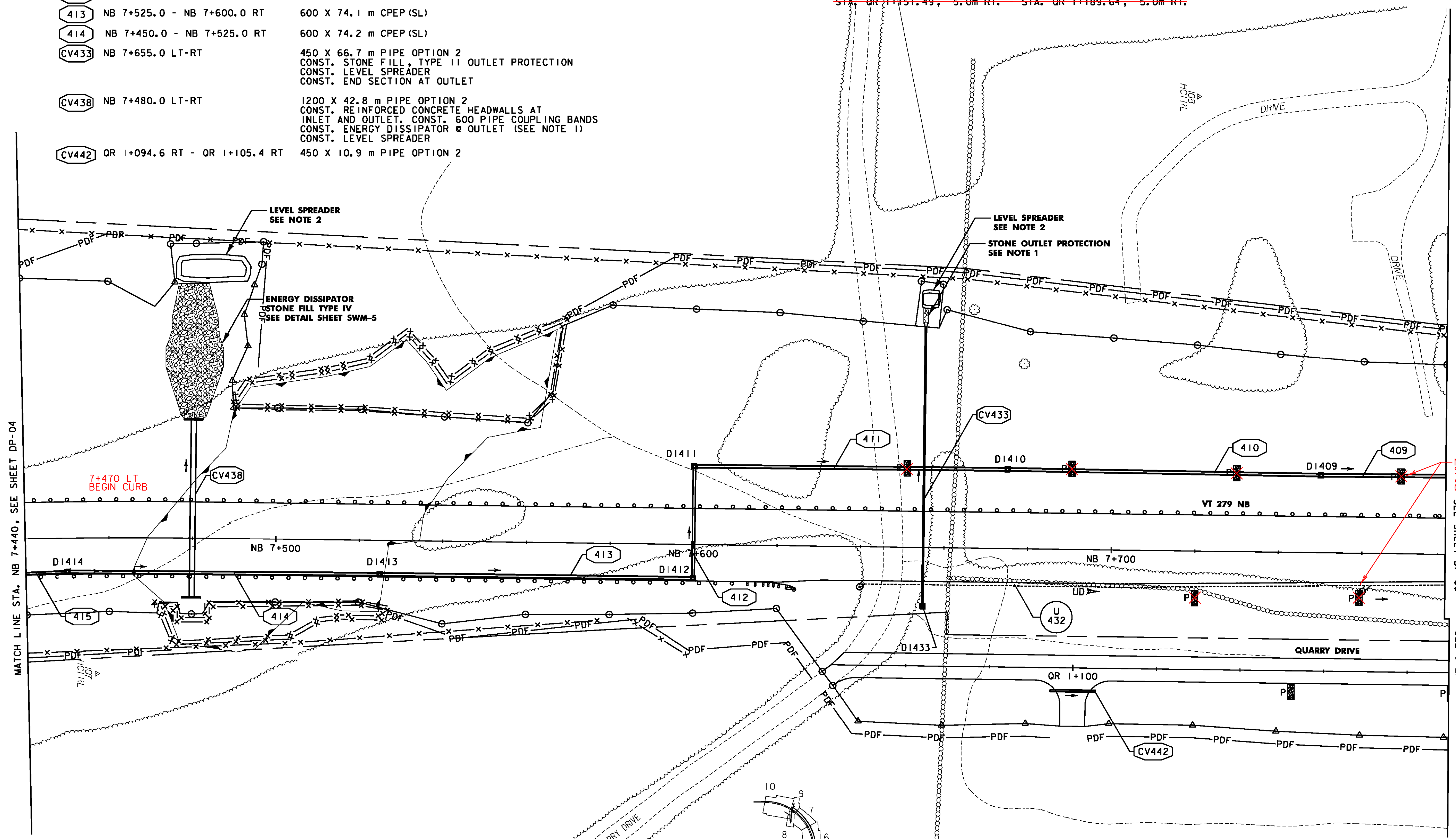
PROJECT NAME:	BENNINGTON	FILE NAME:	...plot_files\zd307c2dp04.ppf	PLOT DATE:	5/16/2011
PROJECT NUMBER:	AC NH 019-(152)	DESIGN SUPERVISOR:	GREG EDWARDS	DRAWN BY:	STANTEC
		DESIGNED BY:	MARC FOISY	CHECKED BY:	GARY SANTY
		DRAINAGE PLAN DP-04		SHEET	84 OF 267

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NEW DRAINAGE PIPES			NEW DRAINAGE STRUCTURES		
PIPE #	LOCATION	COMMENTS	STRUCTURE #	LOCATION	COMMENTS
409	NB 7+750.0 - NB 7+825.0 LT	600 X 73.0 m PIPE OPTION 1	D1409	NB 7+750.0 LT	TYPE A GRATE
410	NB 7+675.0 - NB 7+750.0 LT	600 X 74.4 m PIPE OPTION 1	D1410	NB 7+675.0 LT	TYPE A GRATE
411	NB 7+600.0 - NB 7+675.0 LT	600 X 74.4 m PIPE OPTION 1	D1411	NB 7+600.0 LT	TYPE A GRATE
412	NB 7+600.0 LT-RT	600 X 26.0 m CPEP (SL)	D1412	NB 7+600.0 RT	TYPE A GRATE
413	NB 7+525.0 - NB 7+600.0 RT	600 X 74.1 m CPEP (SL)	D1413	NB 7+525.0 RT	TYPE A GRATE
414	NB 7+450.0 - NB 7+525.0 RT	600 X 74.2 m CPEP (SL)	D1414	NB 7+450.0 RT	TYPE A GRATE
CV433	NB 7+655.0 LT-RT	450 X 66.7 m PIPE OPTION 2 CONST. STONE FILL, TYPE II OUTLET PROTECTION CONST. LEVEL SPREADER CONST. END SECTION AT OUTLET	D1433	NB 7+655.0 RT	TYPE A GRATE
CV438	NB 7+480.0 LT-RT	1200 X 42.8 m PIPE OPTION 2 CONST. REINFORCED CONCRETE HEADWALLS AT INLET AND OUTLET. CONST. 600 PIPE COUPLING BANDS CONST. ENERGY DISSIPATOR @ OUTLET (SEE NOTE 1) CONST. LEVEL SPREADER			
CV442	QR 1+094.6 RT - QR 1+105.4 RT	450 X 10.9 m PIPE OPTION 2			

UNDERDRAIN  
 U 432 CONST. @ NB 7+640.0 - NB 7+850. RT.  
 NEW 150 mm x 206.9 m UND. W/FLUSHING BASINS  
 @ NB 7+640.0, RT., NB 7+760. RT.

PERMANENT STONE CHECK DAMS, TYPE I  
 STA. NB 7+650.26, 17.1m LT. STA. NB 7+770.00, 16.7m LT.  
 STA. NB 7+719.32, 11.2m RT. STA. NB 7+758.71, 10.7m RT.  
 STA. QR 1+151.49, 5.0m RT. STA. QR 1+189.64, 5.0m RT.



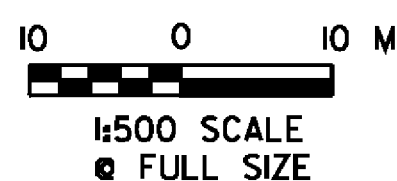
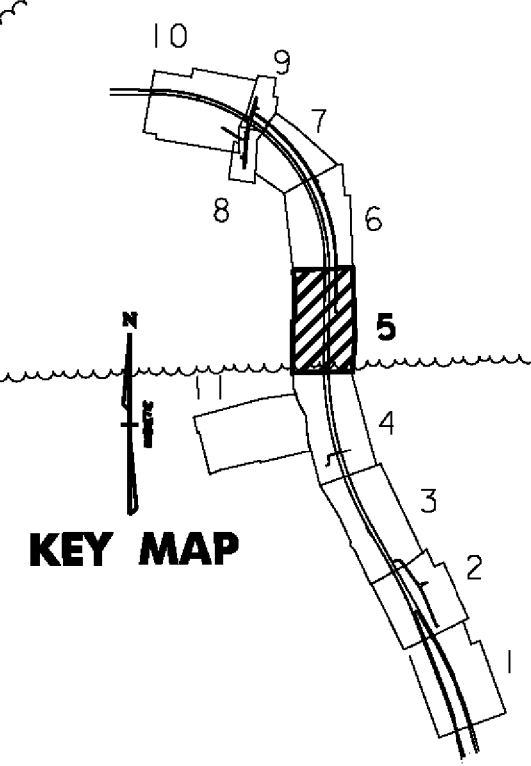
NOT INSTALLED  
 STORMWATER  
 AMENDMENT UNDER  
 CONTRACT 51

MATCH LINE STA. NB 7+440, SEE SHEET DP-04

MATCH LINE  
 STA. NB 7+780,  
 SEE SHEET DP-06

MATCH LINE  
 STA. QR 1+190,  
 SEE SHEET DP-06

- NOTES:
- SEE STORMWATER MANAGEMENT DETAILS SHEET SWM-5 FOR DIMENSIONS AND CONSTRUCTION DETAILS OF STONE OUTLET PROTECTION AND ENERGY DISSIPATOR.
  - SEE STORMWATER MANAGEMENT DETAILS SHEET SWM-1 FOR DIMENSIONS AND CONSTRUCTION DETAILS OF LEVEL SPREADERS. EARTHWORK FOR LEVEL SPREADERS SHALL BE PAID FOR UNDER ITEM 204.20 (TRENCH EXCAVATION).



VERMONT AGENCY OF TRANSPORTATION



PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: AC NH 019-1(52)  
 FILE NAME: ...plot.files\zd307c2dp05.ppf PLOT DATE: 5/16/2011  
 DESIGN SUPERVISOR: GREG EDWARDS DRAWN BY: STANTEC  
 DESIGNED BY: MARC FOISY CHECKED BY: GARY SANTY  
 DRAINAGE PLAN DP-05 SHEET 85 OF 267

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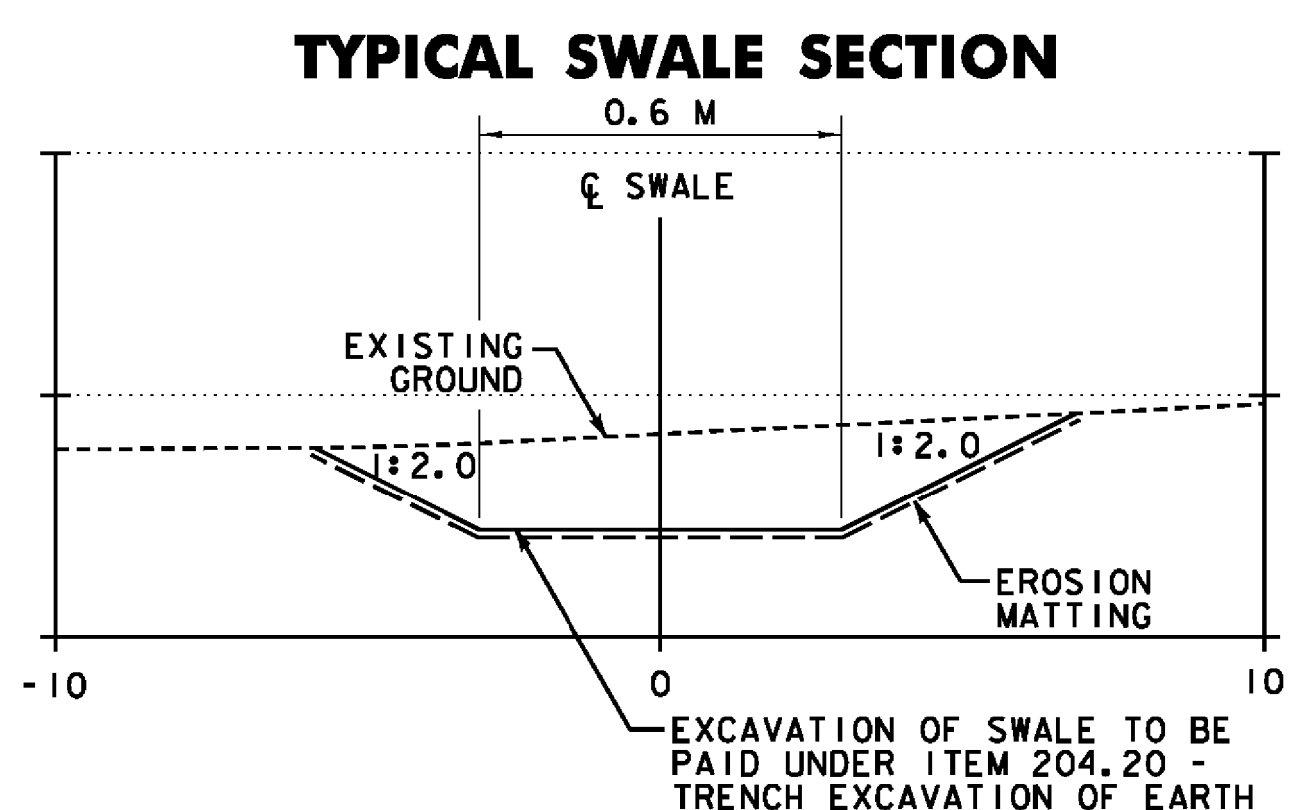
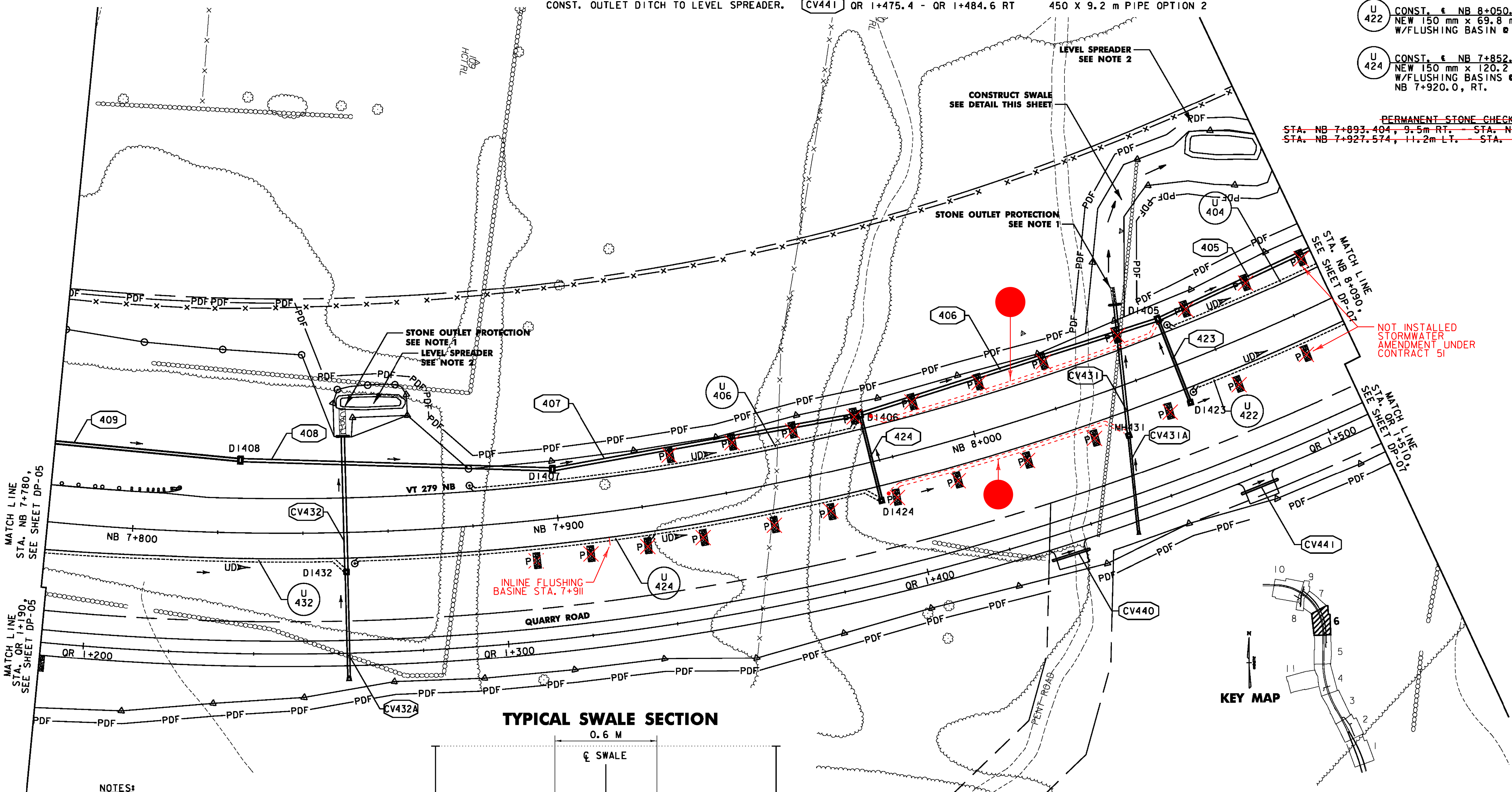


NEW DRAINAGE STRUCTURES			NEW DRAINAGE PIPES		
STRUCTURE #	LOCATION	COMMENTS	PIPE #	LOCATION	COMMENTS
D1405	NB 8+050.0 LT	1200x1800 TYPE B GRATE (1)	405	NB 8+050.0 - NB 8+125.0 LT	750 X 72.9 m PIPE OPTION 2
D1406	NB 7+975.0 LT	1200x1800 TYPE B GRATE (1)	406	NB 7+975.0 LT - NB 8+050.0 LT	750 X 72.9 m PIPE OPTION 2
D1407	NB 7+900.0 LT	1200x1800 TYPE B GRATE (1)	407	NB 7+900.0 - NB 7+975.0 LT	750 X 72.9 m PIPE OPTION 2
D1408	NB 7+825.0 LT	1200x1800 TYPE A GRATE (1)	408	NB 7+825.0 - NB 7+900.0 LT	750 X 72.7 m PIPE OPTION 2
D1423	NB 8+050.0 RT	TYPE B GRATE COVER ("STORM" CAST INTO TOP SURFACE)	423	NB 8+050.0 LT-RT	450 X 20.3 m PIPE OPTION 3
D1424	NB 7+975.0 RT	TYPE B GRATE	424	NB 7+975.0 LT-RT	450 X 20.3 m PIPE OPTION 3
MH431	NB 8+034.0 RT	COVER ("STORM" CAST INTO TOP SURFACE)	CV431	NB 8+045.0 LT - NB 8+034.0 RT	750 X 30.7 m PIPE OPTION 2 CONST. REINFORCED CONCRETE HEADWALL AND STONE FILL TYPE 11 AT OUTLET CONST. OUTLET DITCH TO LEVEL SPREADER.
D1432	NB 7+850.0 RT	1200x1800 TYPE A GRATE (1)			

NEW DRAINAGE PIPES		
PIPE #	LOCATION	COMMENTS
CV431A	NB 8+028.9 - NB 8+034.0 RT	450 X 22.6 m PIPE OPTION 2 CONST. 600 PIPE COUPLING BANDS CONST. END SECTION AT INLET
CV432	NB 7+850.0 LT-RT	750 X 31.4 m PIPE OPTION 2 CONST. REINFORCED CONCRETE HEADWALL @ OUTLET. CONST. OUTLET DITCH WITH STONE FILL TYPE 11 CONST. LEVEL SPREADER
CV432A	NB 7+850.0 RT	600 X 24.5 m PIPE OPTION 2 CONST. 600 PIPE COUPLING BANDS CONST. END SECTION AT INLET.
CV440	QR 1+428.8 - QR 1+437.8 RT	450 X 9.2 m PIPE OPTION 2
CV441	QR 1+475.4 - QR 1+484.6 RT	450 X 9.2 m PIPE OPTION 2

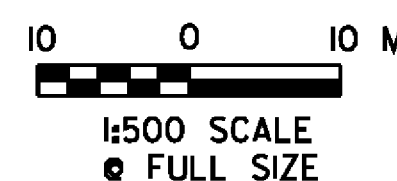
UNDERDRAIN	
U 406	CONST. @ NB 7+880.0 - NB 7+975.0, LT. NEW 150 mm x 89.7 m UND. W/FLUSHING BASIN @ 7+880.0, LT.
U 404	CONST. @ NB 8+050.5 - NB 8+125.0, LT. NEW 150 mm x 68.2 m UND. W/FLUSHING BASIN @ NB 8+050.5, LT.
U 422	CONST. @ NB 8+050.5 - NB 8+125.0, RT. NEW 150 mm x 69.8 m UND. W/FLUSHING BASIN @ NB 8+050.5, RT.
U 424	CONST. @ NB 7+852.0 - NB 7+975.0, RT. NEW 150 mm x 120.2 m UND. W/FLUSHING BASIN @ NB 7+852.0, RT., NB 7+920.0, RT.

~~PERMANENT STONE CHECK DAMS, TYPE 1  
STA. NB 7+893.404, 9.5m RT. STA. NB 8+078.276, 9.2m RT.  
STA. NB 7+927.574, 11.2m LT. STA. NB 8+086.472, 11.8m LT.~~



- NOTES:**
- SEE STORMWATER MANAGEMENT DETAILS SHEET SWM-5 FOR DIMENSIONS AND CONSTRUCTION DETAILS OF STONE OUTLET PROTECTION.
  - SEE STORMWATER MANAGEMENT DETAIL SHEET SWM-1 FOR DIMENSIONS AND CONSTRUCTION DETAILS OF LEVEL SPREADERS. EARTHWORK FOR LEVEL SPREADERS SHALL BE PAID FOR UNDER ITEM 204.20 (TRENCH EXCAVATION).
  - PIPE STATIONING REFLECTS BREAKS AT SHEET MATCHLINES. PIPE LENGTHS REFLECT ACTUAL PIPE SEGMENTS & MATCH THE SUMMARY SHEETS.

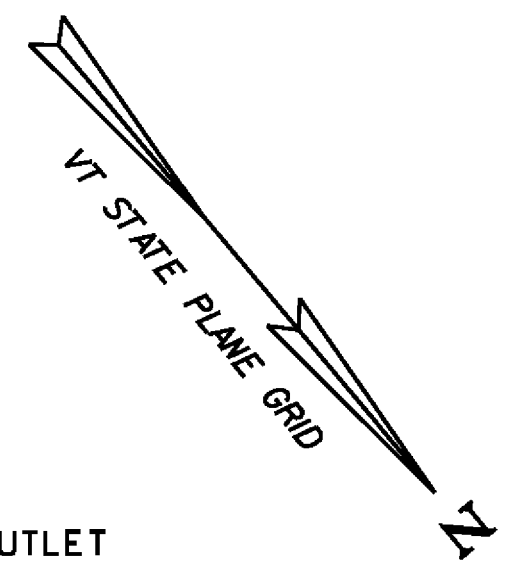
NOT INSTALLED  
STORMWATER  
AMENDMENT UNDER  
CONTRACT 51



**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: AC NH 019-1(52)  
 FILE NAME: ...plot\_files\zd307c2dp06.pft PLOT DATE: 5/16/2011  
 DESIGN SUPERVISOR: GREG EDWARDS DRAWN BY: STANTEC  
 DESIGNED BY: MARC FOISY CHECKED BY: GARY SANTY  
 DRAINAGE PLAN DP-06 SHEET 86 OF 267



NEW DRAINAGE STRUCTURES		
STRUCTURE #	LOCATION	COMMENTS
D1403	NB 8+200.0 LT	1200x1800 TYPE B GRATE (1)
D1404	NB 8+125.0 LT	1200x1800 TYPE B GRATE (1)
D1421	NB 8+200.0 RT	TYPE B GRATE
D1422	NB 8+125.0 RT	TYPE B GRATE
PRCCD1428	NB 8+309.6 RT	PRCCDI
PRCCD1429	NB 8+260.0 LT	PRCCDI
MH430	NB 8+187.0 RT	COVER ("STORM" CAST INTO TOP SURFACE)

STORMWATER MANAGEMENT		
STRUCTURE #	LOCATION	COMMENTS
402	NB 8+240.0 - NB 8+310.7 LT	CONST. STONE LINED DITCH, SWM-1

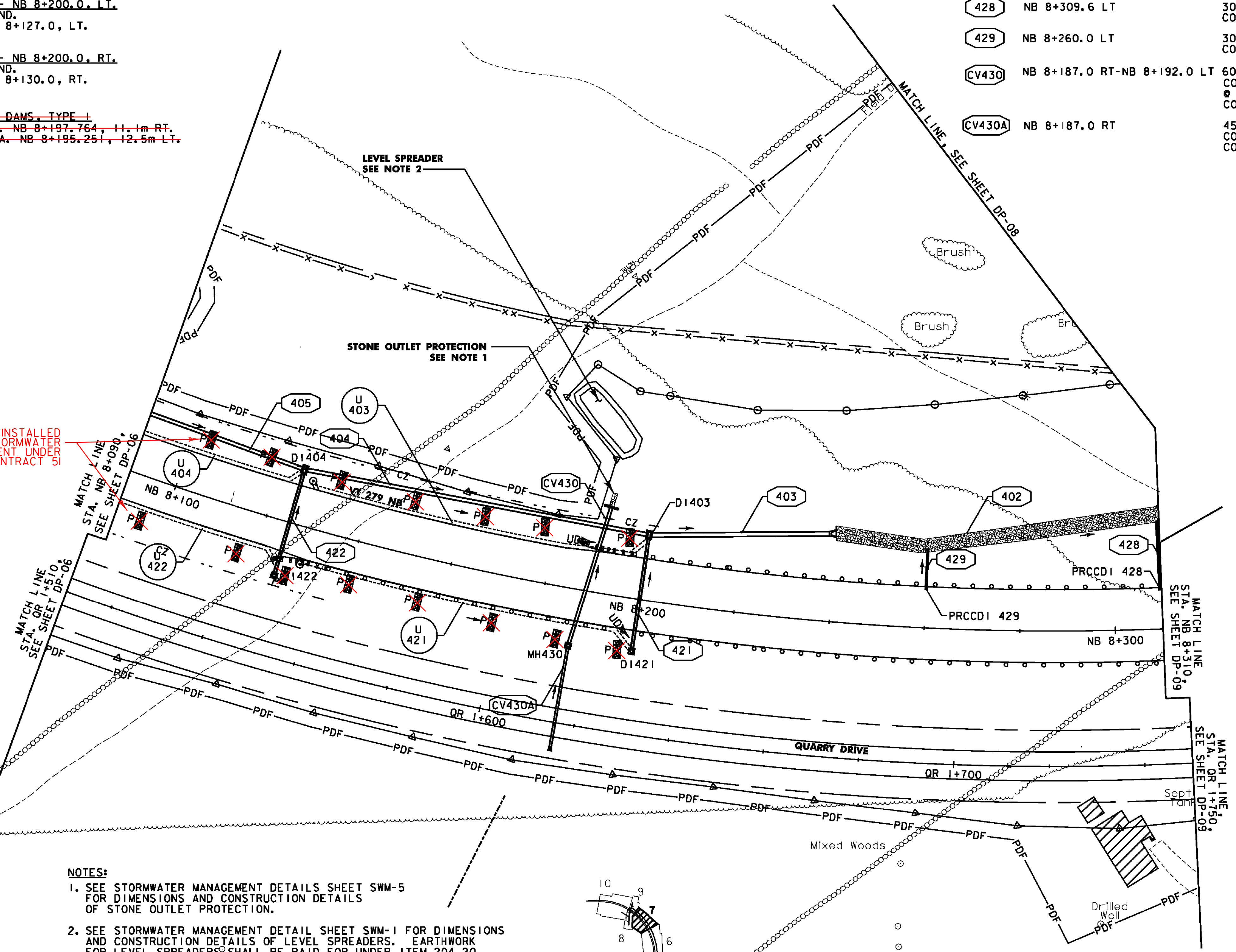
NEW DRAINAGE PIPES		
PIPE #	LOCATION	COMMENTS
403	NB 8+200.0-NB 8+240.0 LT	900 X 38.9 m PIPE OPTION 2 CONST. END SECTION AT OUTLET
404	NB 8+125.0 - NB 8+200.0 LT	750 X 72.8 m PIPE OPTION 2
421	NB 8+200.0 LT-RT	450 X 23.8 m PIPE OPTION 3
422	NB 8+125.0 LT-RT	450 X 22.3 m PIPE OPTION 3
428	NB 8+309.6 LT	300 X 17.2 m OPTION 2 SLOPE DRAIN CONST. 600mm PIPE COUPLING BANDS
429	NB 8+260.0 LT	300 X 7.5 m OPTION 2 SLOPE DRAIN CONST. 600 PIPE COUPLING BANDS
CV430	NB 8+187.0 RT-NB 8+192.0 LT	600 X 30.3 m PIPE OPTION 2 CONST. REINFORCED CONCRETE HEADWALL OUTLET CONST. STONE FILL, TYPE II OUTLET CONST. LEVEL SPREADER
CV430A	NB 8+187.0 RT	450 X 21.2 m PIPE OPTION 2 CONST. 600 PIPE COUPLING BANDS CONST. END SECTION AT INLET

- UNDERDRAIN**
- U 403 CONST. NB 8+125.0 - NB 8+200.0, LT.  
NEW 150 mm x 67.6 m UND.  
W/FLUSHING BASIN @ NB 8+127.0, LT.
  - U 421 CONST. NB 8+130.0 - NB 8+200.0, RT.  
NEW 150 mm x 69.1 m UND.  
W/FLUSHING BASIN @ NB 8+130.0, RT.

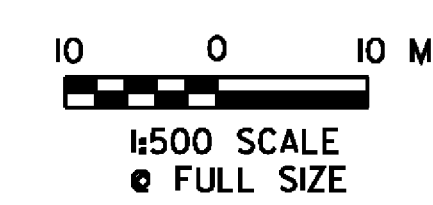
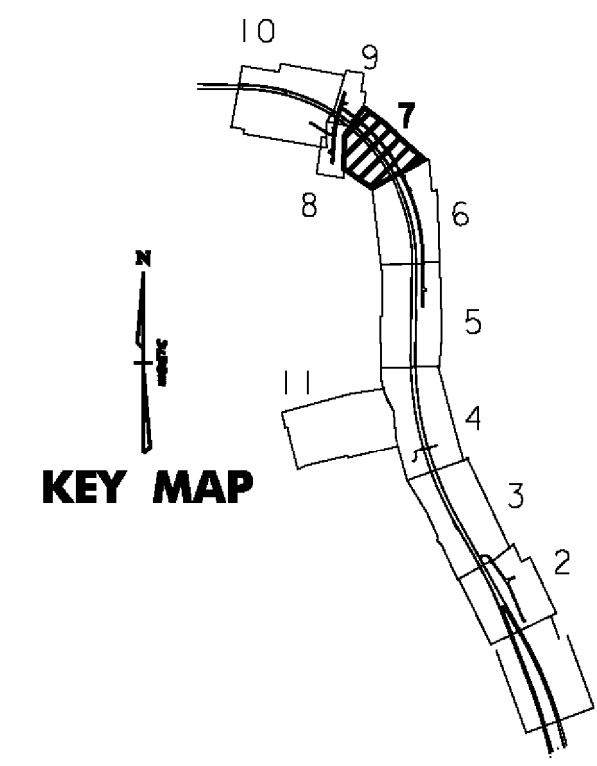
**PERMANENT STONE CHECK DAMS, TYPE I**

STA. NB 8+094.519, 9.2m RT. STA. NB 8+197.764, 11.1m RT.  
 STA. NB 8+103.258, 11.7m LT. STA. NB 8+195.251, 12.5m LT.

NOT INSTALLED  
STORMWATER  
AMENDMENT UNDER  
CONTRACT '51



- NOTES:**
- SEE STORMWATER MANAGEMENT DETAILS SHEET SWM-5 FOR DIMENSIONS AND CONSTRUCTION DETAILS OF STONE OUTLET PROTECTION.
  - SEE STORMWATER MANAGEMENT DETAIL SHEET SWM-1 FOR DIMENSIONS AND CONSTRUCTION DETAILS OF LEVEL SPREADERS. EARTHWORK FOR LEVEL SPREADERS SHALL BE PAID FOR UNDER ITEM 204.20 (TRENCH EXCAVATION).
  - PIPE STATIONING REFLECTS BREAKS AT SHEET MATCHLINES. PIPE LENGTHS REFLECT ACTUAL PIPE SEGMENTS & MATCH THE SUMMARY SHEETS.
  - FOR TEMPORARY SEDIMENT BASIN # 1 DETAILS AND PIPE NOTES SEE EROSION PREVENTION AND SEDIMENT CONTROL DETAILS ECD-12 AND ECD-13

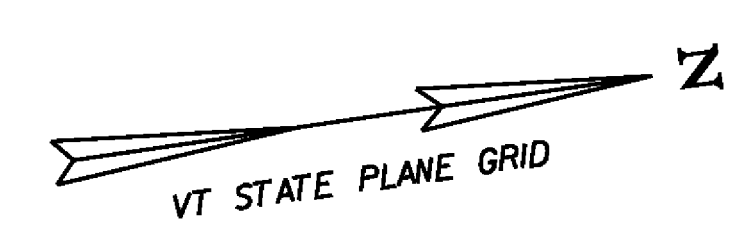


**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME:	BENNINGTON
PROJECT NUMBER:	AC NH 019-1(52)
FILE NAME:	...plot_files\zd307c2dp07.ppt
DESIGN SUPERVISOR:	GREG EDWARDS
DESIGNED BY:	MARC FOISY
DRAINAGE PLAN:	DP-07
PLOT DATE:	5/16/2011
DRAWN BY:	STANTEC
CHECKED BY:	GARY SANTY
SHEET:	87 OF 267

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**NEW DRAINAGE STRUCTURES**

STRUCTURE #	LOCATION	COMMENTS
D1401	NB 8+332.0 LT	1200x1800 TYPE A GRATE (2)
D1419	CH 1+397.0 RT	TYPE A GRATE
PRCCD1427	NB 8+370.0 LT	PRCCD1

**NEW DRAINAGE PIPES**

PIPE #	LOCATION	COMMENTS
401	NB 8+332.0-NB 8+360.0 LT	900 X 24.8 m PIPE OPTION 2 CONST. STONE FILL TYPE II AT OUTLET
419	CH 1+354.0 - CH 1+397.0 RT	450 X 41.8 m PIPE OPTION 3
427	NB 8+378.5 LT	300 X 15.4 m OPTION 2 SLOPE DRAIN CONST. 600mm PIPE COUPLING BANDS CONST. END SECTION AT OUTLET CONST. STONE FILL TYPE II AT OUTLET
CV436	CH 1+426.0-CH 1+436.0 RT	450 X 10.0 m PIPE OPTION 2 CONST. END SECTIONS AT INLET AND OUTLET
CV437	CH 1+419.5 LT - RT.	600 X 22.4 m PIPE OPTION 2 CONST. STONE FILL TYPE I AT OUTLET CONST. END SECTIONS AT INLET AND OUTLET

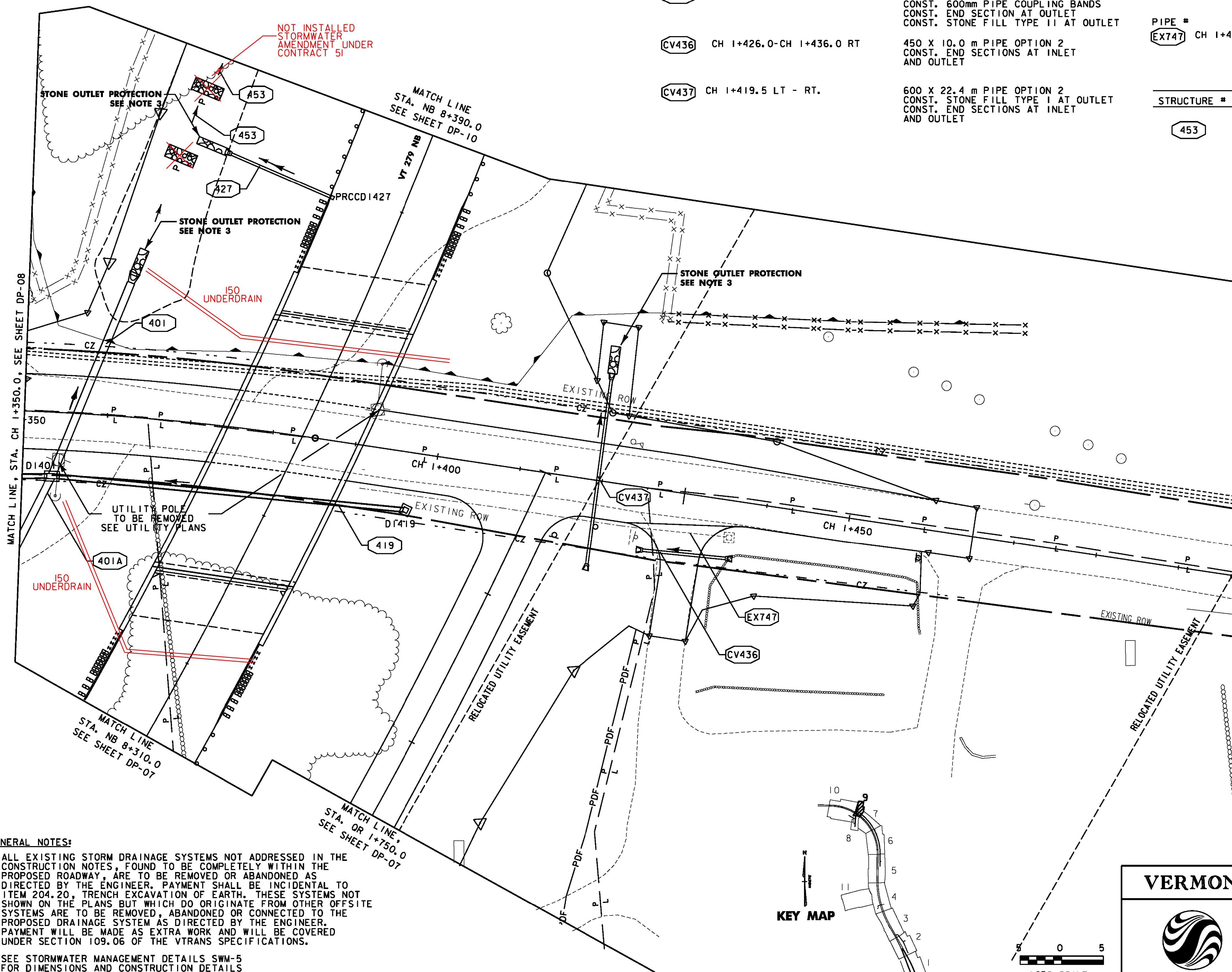
**EXISTING DRAINAGE PIPES**

PIPE #	LOCATION	COMMENTS
EX747	CH 1+424 - CH 1+436 RT	REMOVE EXISTING 200 PVC PIPE & INLET STRUCTURE

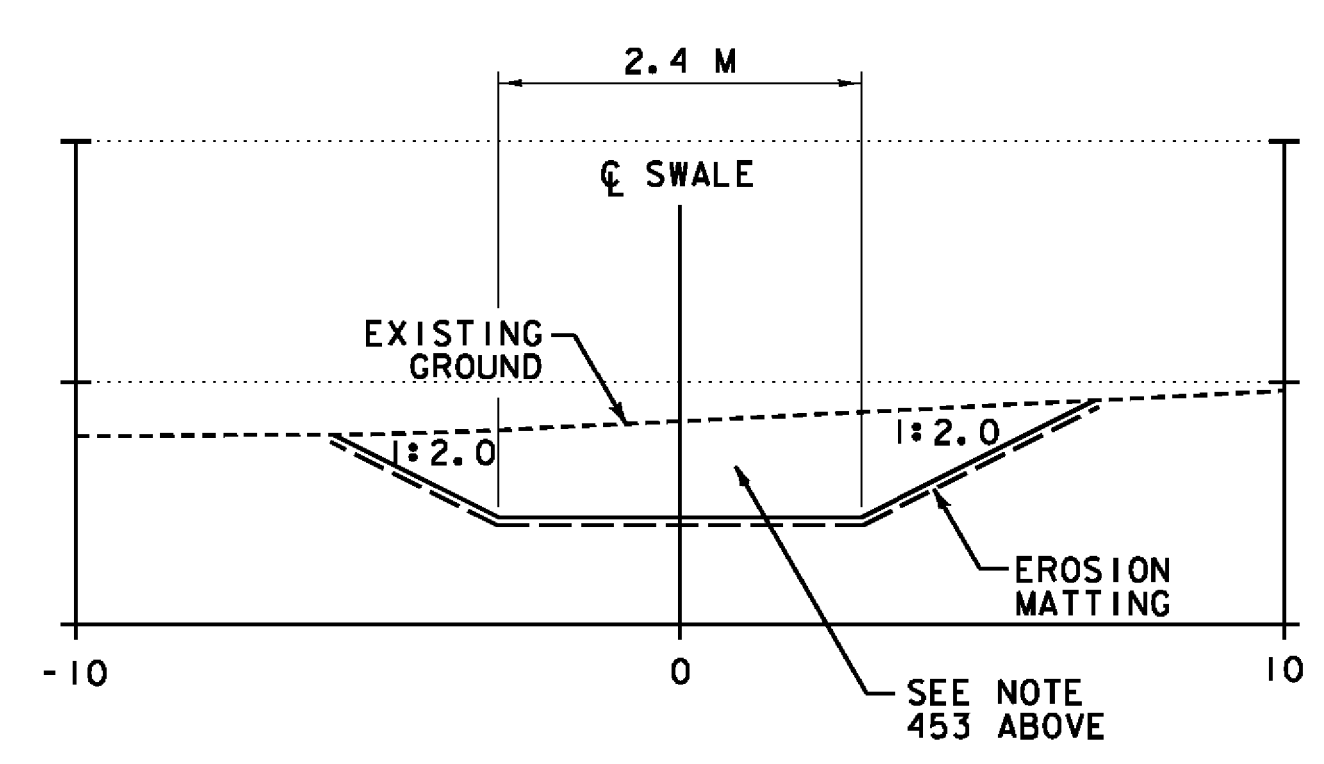
~~PERMANENT STONE CHECK DAMS, TYPE I  
STA. NB 8+375.133, 27.1m LT. STA. NB 8+384.213, 27.2m LT.~~

**STORMWATER MANAGEMENT**

STRUCTURE #	LOCATION	COMMENTS
453	NB 8+360.0 - NB 8+508 LT	CONST. VEG. SWALE TO CONNECT TO EXISTING SWALE AND STONE CONSTRUCTED UNDER AC NH 015 (53)



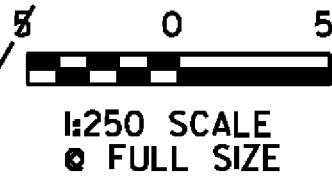
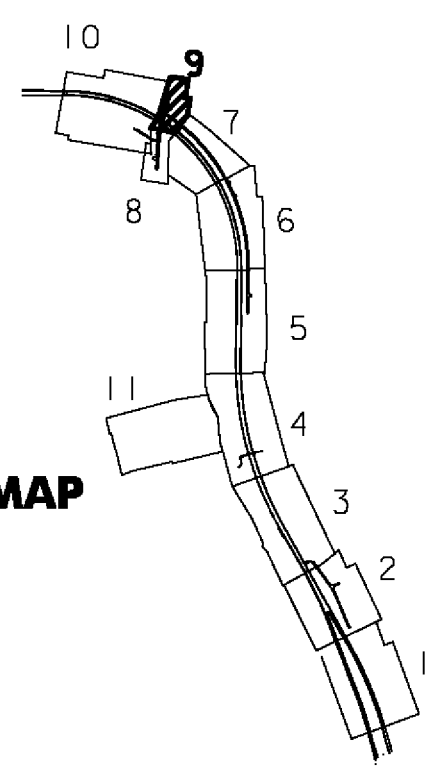
**TYPICAL SWALE SECTION**



**GENERAL NOTES:**

- ALL EXISTING STORM DRAINAGE SYSTEMS NOT ADDRESSED IN THE CONSTRUCTION NOTES, FOUND TO BE COMPLETELY WITHIN THE PROPOSED ROADWAY, ARE TO BE REMOVED OR ABANDONED AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE INCIDENTAL TO ITEM 204.20, TRENCH EXCAVATION OF EARTH. THESE SYSTEMS NOT SHOWN ON THE PLANS BUT WHICH DO ORIGINATE FROM OTHER OFFSITE SYSTEMS ARE TO BE REMOVED, ABANDONED OR CONNECTED TO THE PROPOSED DRAINAGE SYSTEM AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE AS EXTRA WORK AND WILL BE COVERED UNDER SECTION 109.06 OF THE VTRANS SPECIFICATIONS.
- SEE STORMWATER MANAGEMENT DETAILS SWM-5 FOR DIMENSIONS AND CONSTRUCTION DETAILS OF STONE OUTLET PROTECTION.

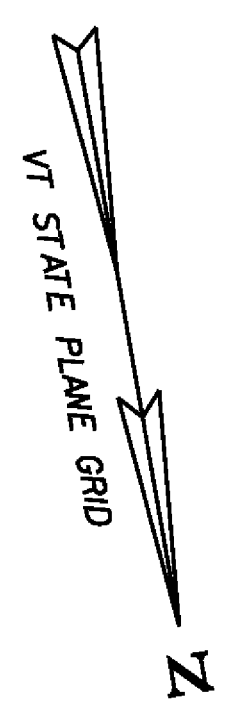
**KEY MAP**



**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME: BENNINGTON	PLOT DATE: 5/16/2011
PROJECT NUMBER: AC NH 019-1(52)	DRAWN BY: STANTEC
FILE NAME: ...plot.files\zd307c2dp09.ppf	DESIGNED BY: GARY SANTY
DESIGN SUPERVISOR: GREG EDWARDS	CHECKED BY: GARY SANTY
DRAINAGE PLAN DP-09	SHEET 89 OF 267



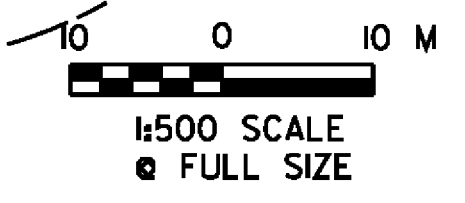
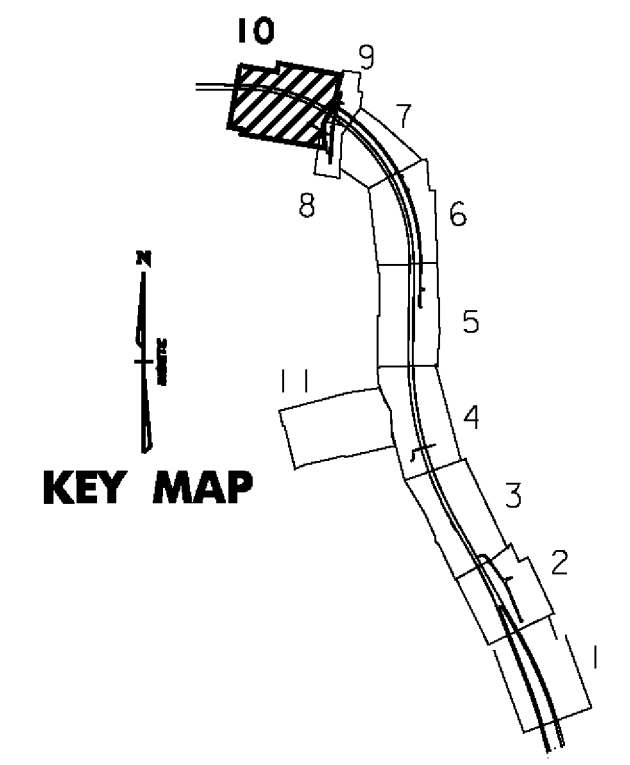
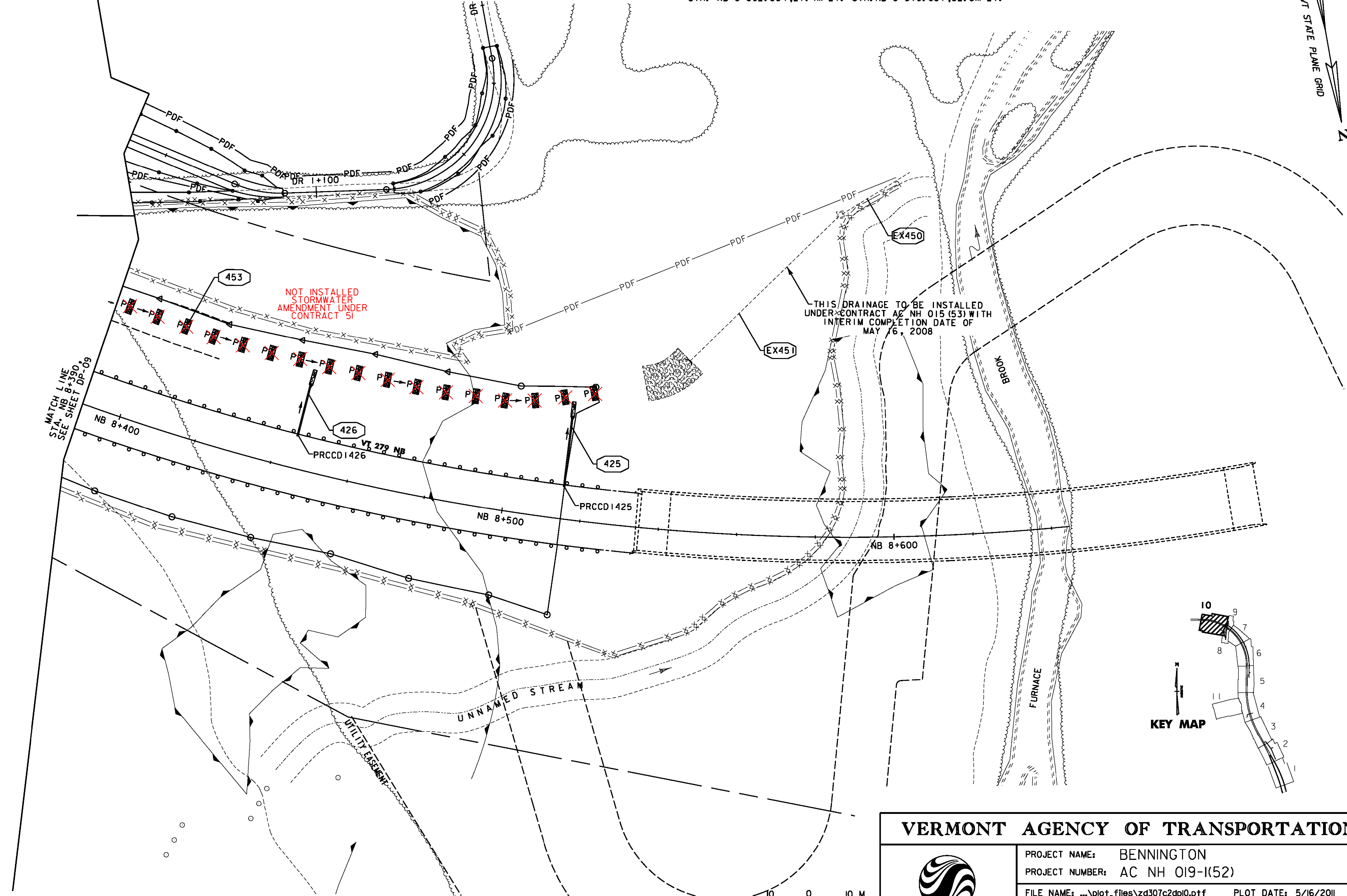
NEW DRAINAGE STRUCTURES		
STRUCTURE #	LOCATION	COMMENTS
PRCCD1425	NB 8+515.0 LT	PRCCD1
PRCCD1426	NB 8+445.0 LT	PRCCD1

**NOTES:**  
 1. SEE EROSION PREVENTION AND SEDIMENT CONTROL DETAIL SHEETS FOR DIMENSIONS AND CONSTRUCTION DETAILS OF STONE OUTLET PROTECTION.

NEW DRAINAGE PIPES		
PIPE #	LOCATION	COMMENTS
425	NB 8+515.0 LT	300 X 25.2 m OPTION 2 SLOPE DRAIN CONST. 600mm PIPE COUPLING BANDS CONST. END SECTION AT OUTLET CONST. STONE FILL TYPE II AT OUTLET
426	NB 8+445.0 LT	300 X 15.0 m OPTION 2 SLOPE DRAIN CONST. 600mm PIPE COUPLING BANDS CONST. END SECTION AT OUTLET CONST. STONE FILL TYPE II AT OUTLET

EXISTING DRAINAGE PIPES		
PIPE #	LOCATION	COMMENTS
EX450	NB 8+544.9 LT - NB 8+586.0 LT	RETAIN EXISTING DRAINAGE PIPE AND HEADWALL CONSTRUCTED UNDER AC NH 015 (53)
EX451	NB 8+586.0 LT - NB 8+606.9 LT	RETAIN EXISTING DRAINAGE PIPE AND INLET CONSTRUCTED UNDER AC NH 015 (53)

~~PERMANENT STONE CHECK DAMS, TYPE I~~  
~~STA. NB 8+392.354+27.4m LT. STA. NB 8+519.031+32.5m LT.~~



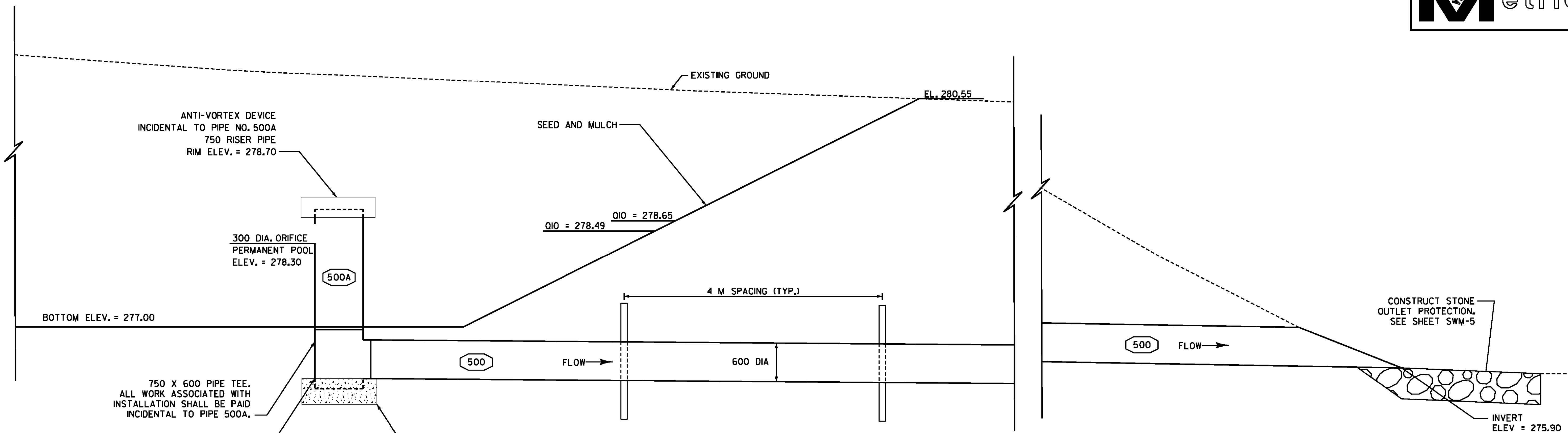
**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME:	BENNINGTON	FILE NAME:	...plot_files\zd307c2dpl0.ppf	PLOT DATE:	5/16/2011
PROJECT NUMBER:	AC NH 019-1(52)	DESIGN SUPERVISOR:	GREG EDWARDS	DRAWN BY:	STANTEC
		DESIGNED BY:	MARC FOISY	CHECKED BY:	GARY SANTY
		<b>DRAINAGE PLAN DP-10</b>		SHEET	90 OF 267

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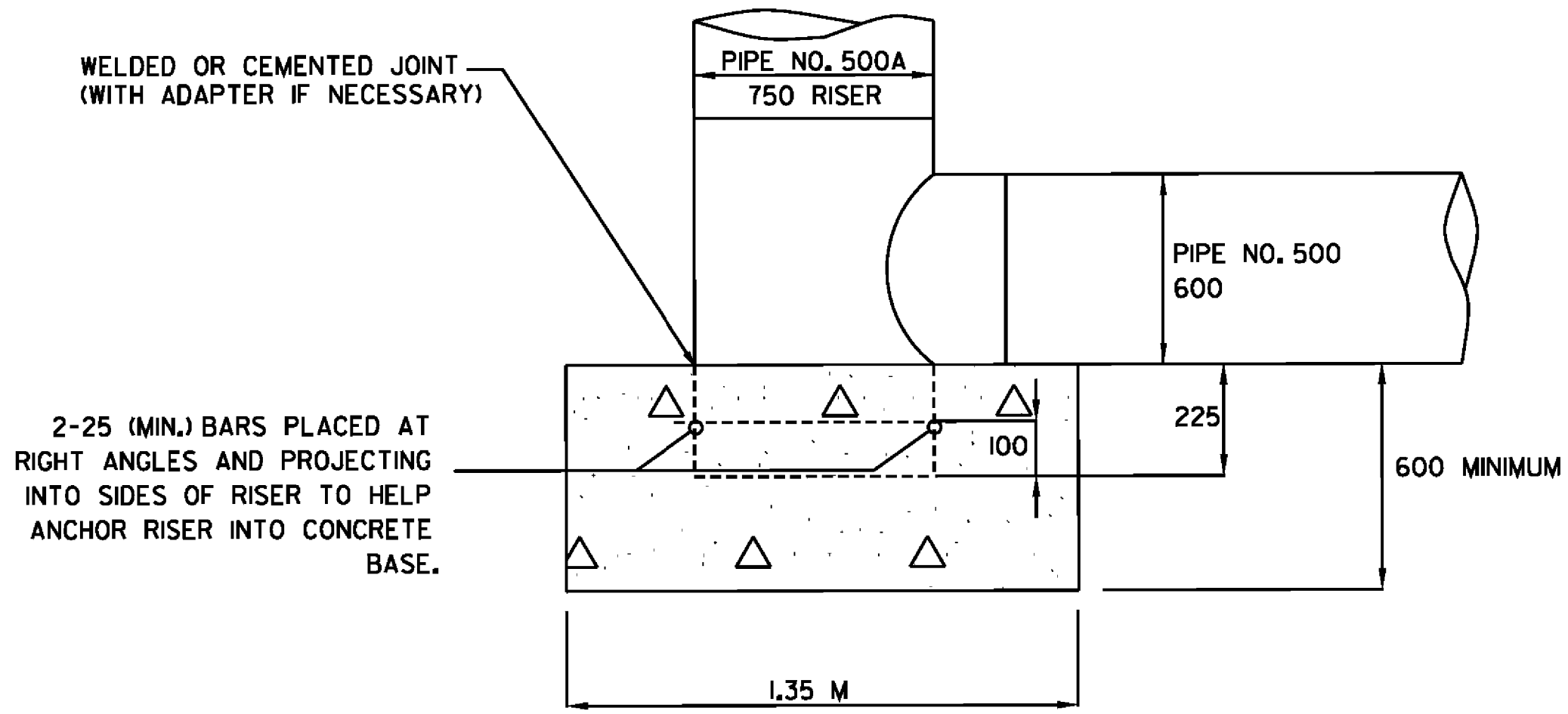




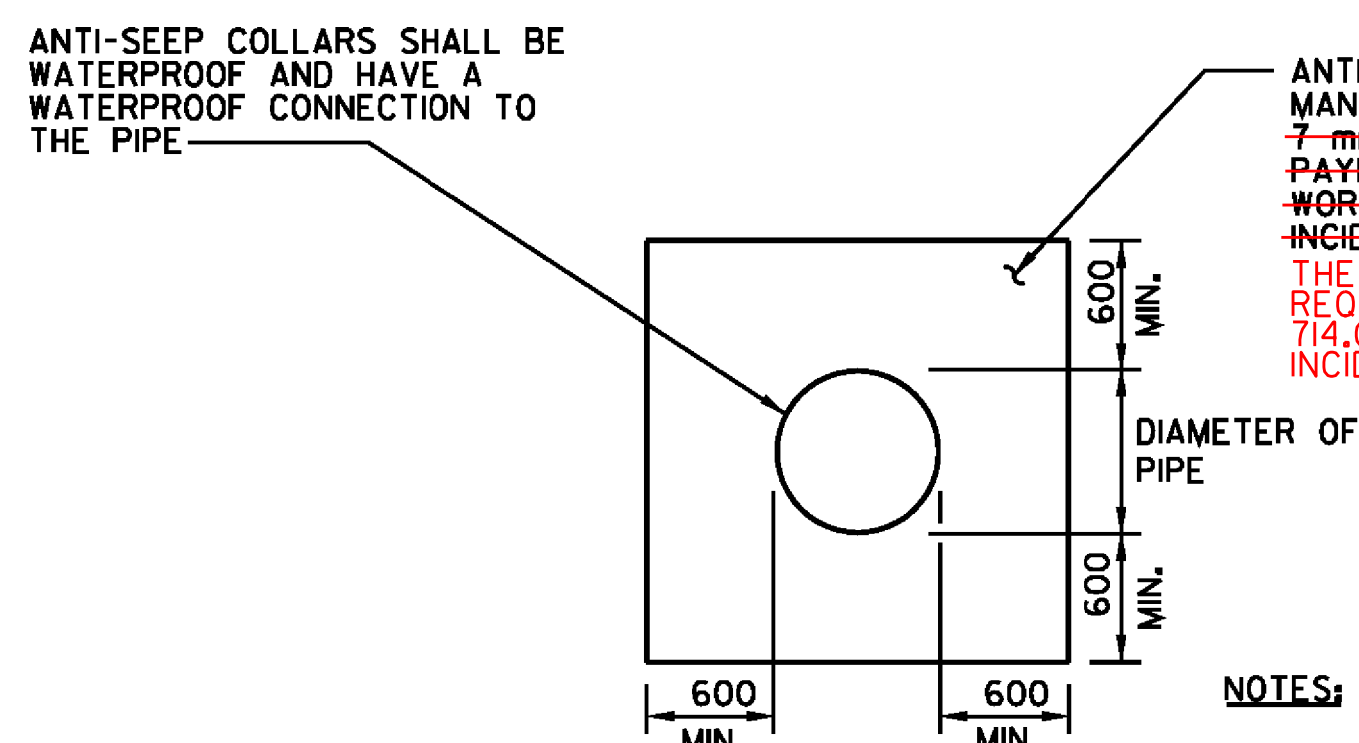
**PERMANENT SEDIMENT BASIN #2 SECTION**  
NOT TO SCALE

**GENERAL NOTES:**

1. THE BASIN AREA SHALL BE CLEARED OF ALL TREES, ROOTS, STUMPS, BOULDERS AND SOD TO A MINIMUM DEPTH OF 300 BELOW FINAL GRADE. THIS WORK SHALL BE INCIDENTAL TO ITEM 201.0 - CLEARING AND GRUBBING
2. SEED AND MULCH ALL EARTH SLOPES WITHIN 24 HOURS OF COMPLETION OF FINAL GRADING. STABILIZE THE INLET AREA WITH REQUIRED EROSION CONTROL MEASURES. SEE EPSC SHEETS.
3. RISER BASE SHALL BE PAID FOR AS ITEM 541.25 - CONCRETE, CLASS B AND ITEM 507.15 REINFORCING STEEL.
4. THE CONCRETE BASE SHALL BE POURED IN SUCH A MANNER TO INSURE THAT THE CONCRETE FILLS THE BOTTOM OF THE RISER TO THE INVERT OF THE OUTLET PIPE TO PREVENT THE RISER FROM BREAKING AWAY FROM THE BASE.
5. IF THE RISER PIPE IS ALUMINUM OR ALUMINIZED PIPE THE EMBEDDED SECTION MUST BE PAINTED WITH CHROMATE OR EQUIVALENT.



**RISER BASE DETAIL**  
NOT TO SCALE



**SECTION A-A**  
**ANTI-SEEP COLLAR DETAIL**  
NOT TO SCALE

**NOTES:**

1. PROVIDE TWO ANTI-SEEP COLLARS AT 4.0M SPACING STARTING FROM THE RISER PIPE, TO PREVENT WATER FLOW THROUGH PIPE BEDDING MATERIAL.
2. THE ANTI-SEEP COLLARS ARE TO BE PLACED A MINIMUM OF 600 FROM PIPE JOINTS.

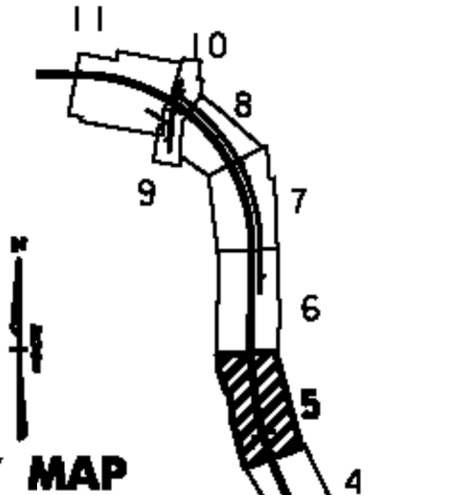
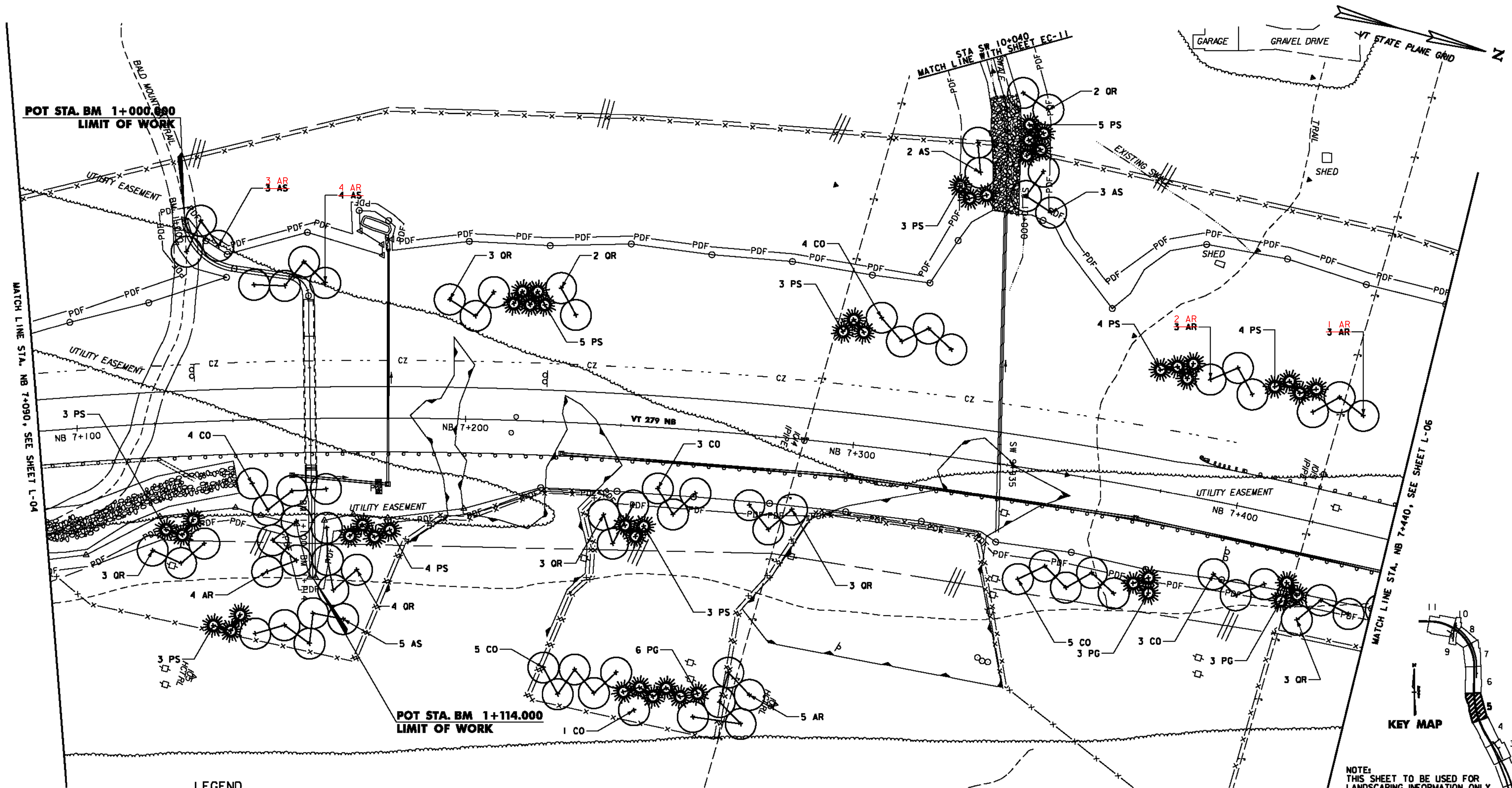
**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: AC NH 019-1(52)  
 FILE NAME: ...plot.files\zd307c2det.swm.ptf PLOT DATE: 5/16/2011  
 DESIGN SUPERVISOR: GREG EDWARDS DRAWN BY: STANTEC  
 DESIGNED BY: MARC FOISY CHECKED BY: GARY SANTY  
**STORMWATER MANAGEMENT DETAILS SWM-3 SHEET 102 OF 267**

V:\1953\active\19531002\transportation\draining\contract\2\plot\_files\zd307c2det.swm.ptf

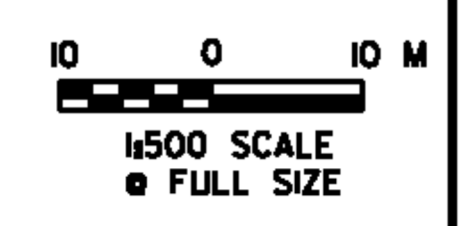




NOTE: THIS SHEET TO BE USED FOR LANDSCAPING INFORMATION ONLY

**LEGEND**

- |           |   |  |                                   |
|-----------|---|--|-----------------------------------|
| AMC.01(9) | DECIDUOUS SHRUB GROUPING WITH PLANT TYPE AND (QUANTITY) |  | EXISTING DECIDUOUS TREE           |
| AR.01(3)  | DECIDUOUS TREE GROUPING WITH PLANT TYPE AND (QUANTITY)  |  | EXISTING EVERGREEN TREE           |
| AC.01(4)  | EVERGREEN TREE GROUPING WITH PLANT TYPE AND (QUANTITY)  |  | TOE OF SLOPE                      |
|           |   |  | LIMIT OF CUT                      |
|           |   |  | APPROXIMATE ULTIMATE TOE OF SLOPE |
|           |   |  | APPROXIMATE ULTIMATE LIMIT OF CUT |
|           |   |  | TREELINE                          |
|           |   |  | R.O.W.                            |



<b>VERMONT AGENCY OF TRANSPORTATION</b>	
PROJECT NAME:	BENNINGTON - NORTH
PROJECT NUMBER:	BENNINGTON AC NH 019-(152)
FILE NAME:	\\DGN\zd307c2p04.p1f
DESIGN SUPERVISOR:	J. BENSON
DESIGNED BY:	J. STEELE/C. BRODIE
LANDSCAPE PLAN	L-05
PLOT DATE:	12/10/2007
DRAWN BY:	E. SMALL
CHECKED BY:	J. STEELE
SHEET 144 OF	

PLAN 019-152-05 CONTRACT NO. 2306N-03070204-01



MATCH LINE STA. NB 7+440, SEE SHEET L-05

MATCH LINE STA. NB 7+780, SEE SHEET L-07

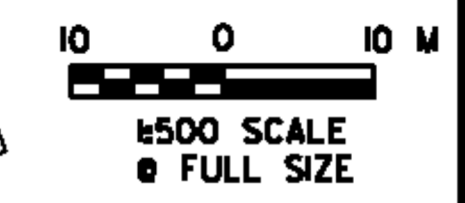
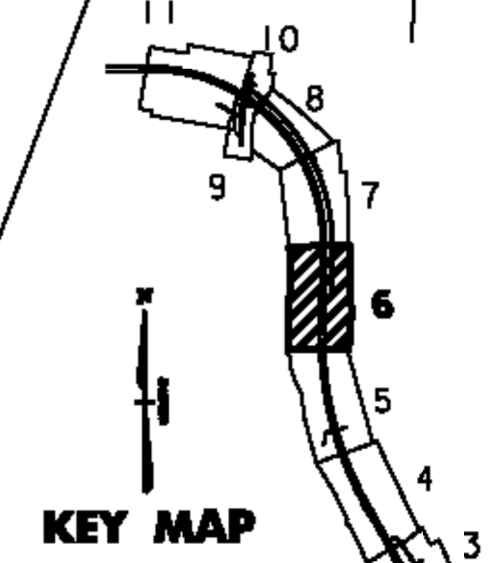
MATCH LINE STA. QR 1+190, SEE SHEET L-07

NOTE: THIS SHEET TO BE USED FOR LANDSCAPING INFORMATION ONLY

POT STA. QR 1+042.037  
LIMIT OF WORK

**LEGEND**

- AMC.O1 (9) DECIDUOUS SHRUB GROUPING WITH PLANT TYPE AND (QUANTITY)
- AR.O1 (3) DECIDUOUS TREE GROUPING WITH PLANT TYPE AND (QUANTITY)
- AC.O1 (4) EVERGREEN TREE GROUPING WITH PLANT TYPE AND (QUANTITY)
- EXISTING DECIDUOUS TREE
- EXISTING EVERGREEN TREE
- TOE OF SLOPE
- LIMIT OF CUT
- APPROXIMATE ULTIMATE TOE OF SLOPE
- APPROXIMATE ULTIMATE LIMIT OF CUT
- TREELINE
- R.O.W.



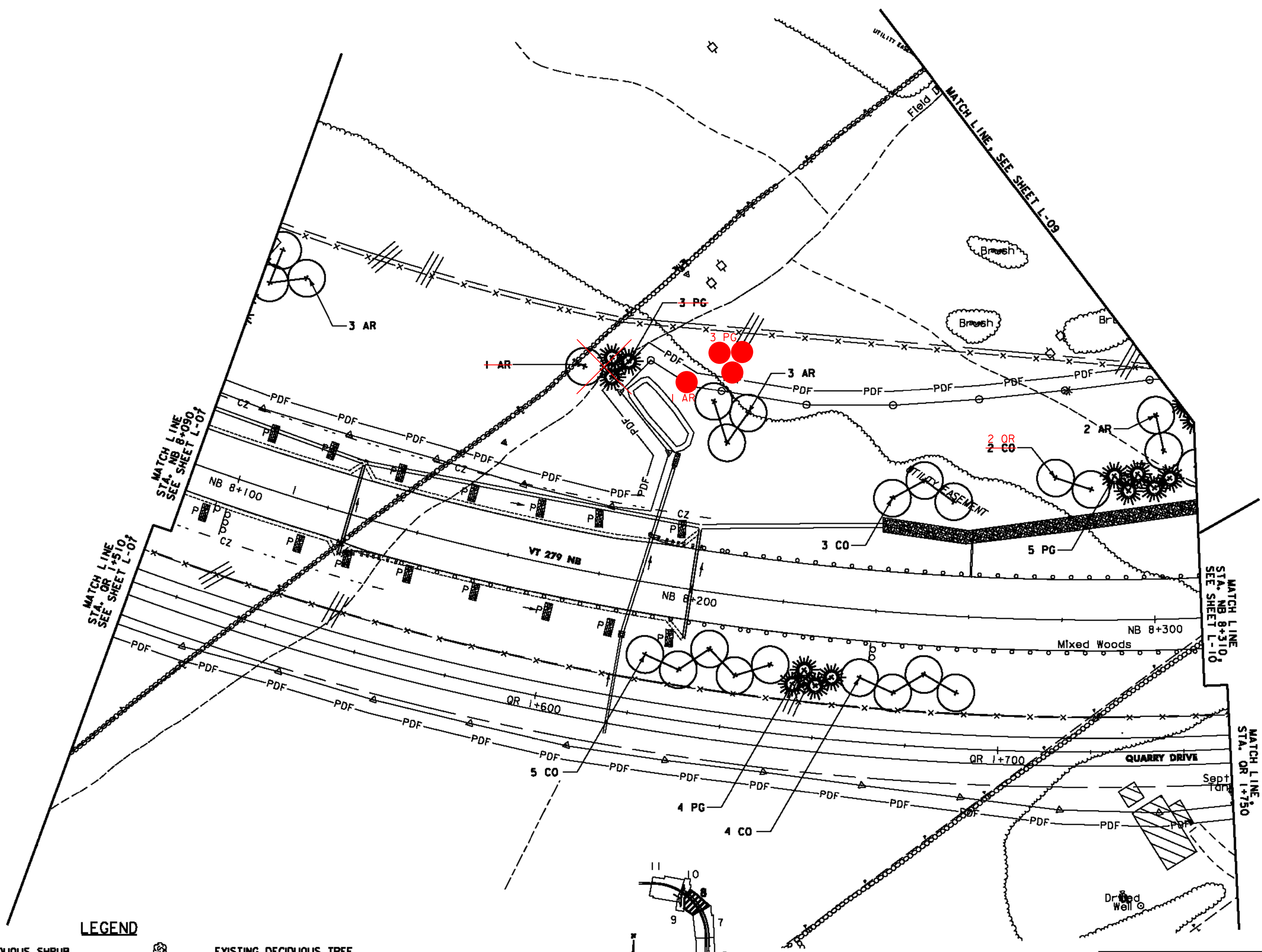
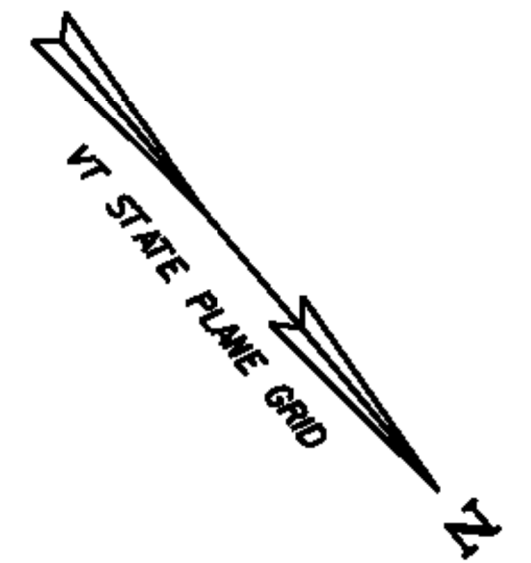
**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME:	BENNINGTON - NORTH	PLOT DATE:	12/10/2007
PROJECT NUMBER:	BENNINGTON AC NH 019-1(52)	DRAWN BY:	E. SMALL
FILE NAME:	...DGN\zd307c2p05.p1f	DESIGNED BY:	J. STEELE/C. BRODIE
DESIGN SUPERVISOR:	J. BENSON	CHECKED BY:	J. STEELE
LANDSCAPE PLAN	L-06	SHEET	145 OF

L:\R463PC\CONTRACT NO. 2\DRN\zd307c2p05.p1f

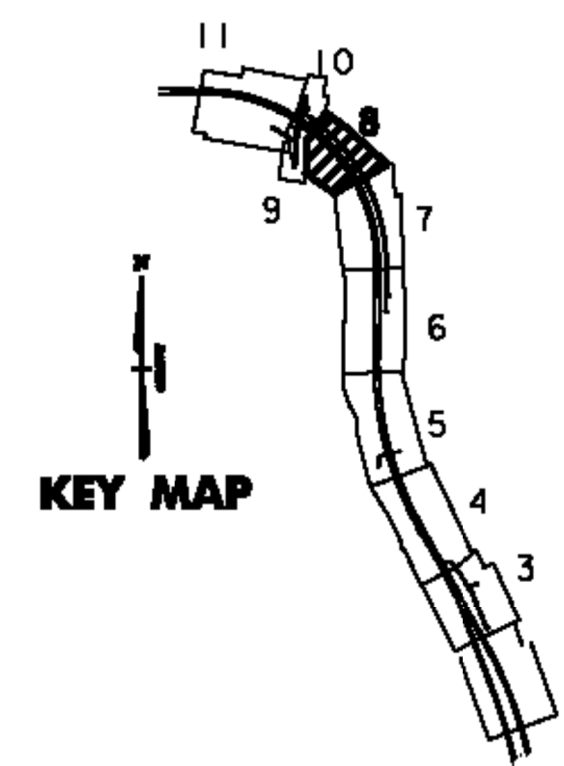




NOTE:  
THIS SHEET TO BE USED FOR  
LANDSCAPING INFORMATION ONLY

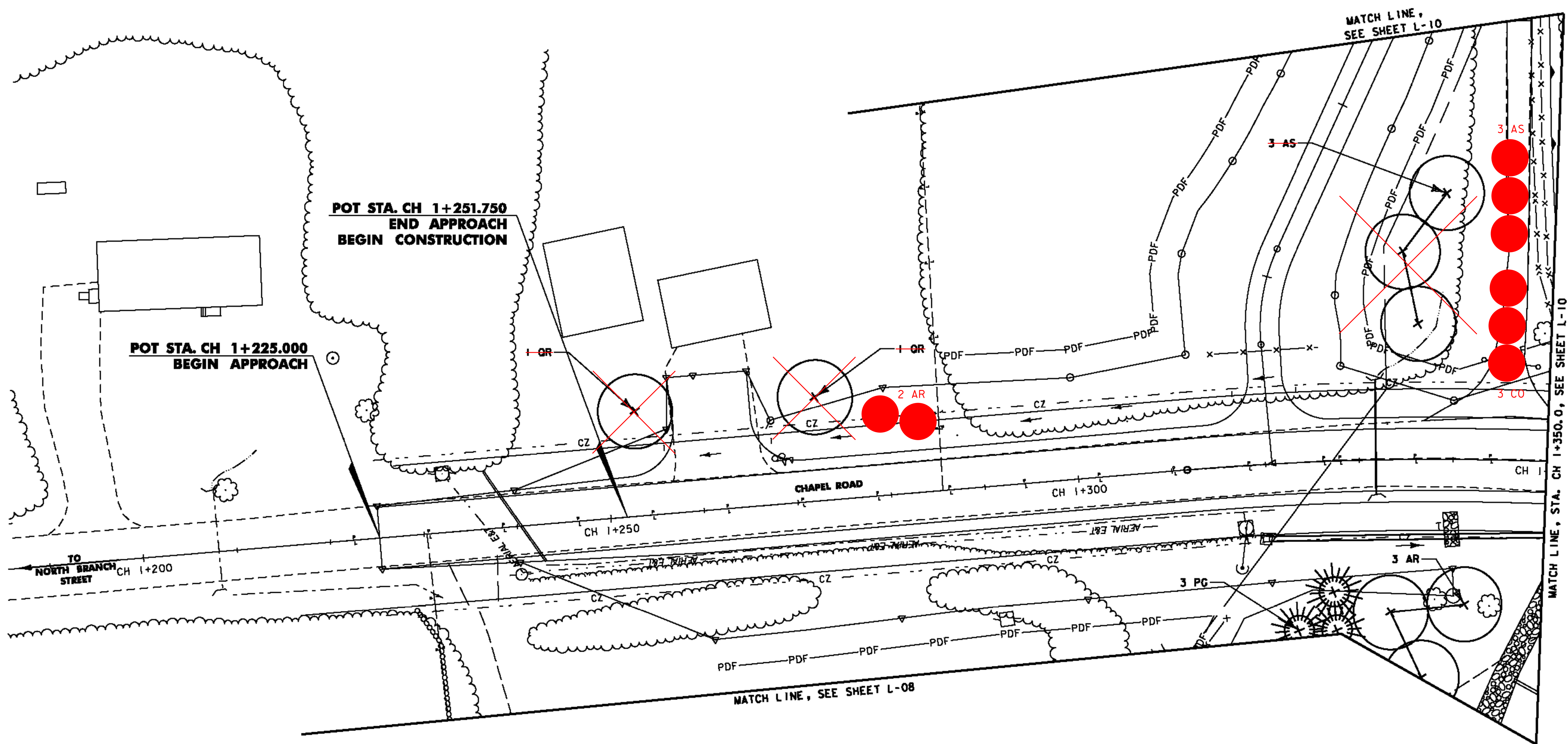
**LEGEND**

- |            |   |  |                                   |
|------------|---|--|-----------------------------------|
| AMC.O1 (9) | DECIDUOUS SHRUB GROUPING WITH PLANT TYPE AND (QUANTITY) |  | EXISTING DECIDUOUS TREE           |
| AR.O1 (3)  | DECIDUOUS TREE GROUPING WITH PLANT TYPE AND (QUANTITY)  |  | EXISTING EVERGREEN TREE           |
| AC.O1 (4)  | EVERGREEN TREE GROUPING WITH PLANT TYPE AND (QUANTITY)  |  | TOE OF SLOPE                      |
|            |   |  | LIMIT OF CUT                      |
|            |   |  | APPROXIMATE ULTIMATE TOE OF SLOPE |
|            |   |  | APPROXIMATE ULTIMATE LIMIT OF CUT |
|            |   |  | TREELINE                          |
|            |   |  | R.O.W.                            |



<b>VERMONT AGENCY OF TRANSPORTATION</b>	
<b>DuBois &amp; King INC.</b>	
PROJECT NAME:	BENNINGTON - NORTH
PROJECT NUMBER:	BENNINGTON AC NH 019-(152)
FILE NAME:	...DGN\zd307c2p07.p1f
DESIGN SUPERVISOR:	J. BENSON
DESIGNED BY:	J. STEELE/C. BRODIE
LANDSCAPE PLAN	L-08
PLOT DATE:	12/10/2007
DRAWN BY:	E. SMALL
CHECKED BY:	J. STEELE
SHEET	147 OF

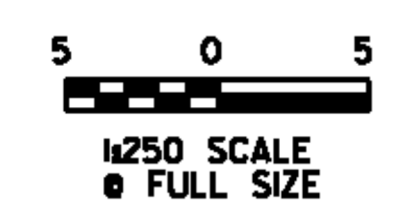
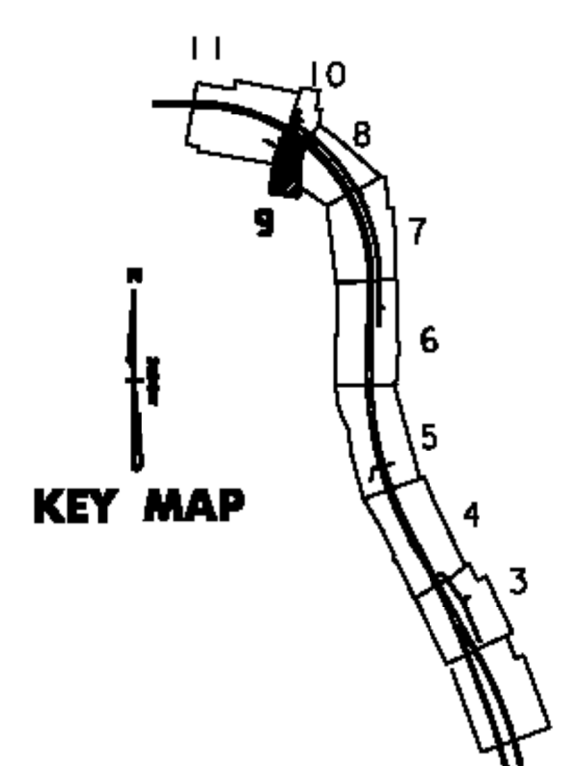
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L:\R463PC\CONTRACT NO 2\DRN\zd307c2p08.rvt

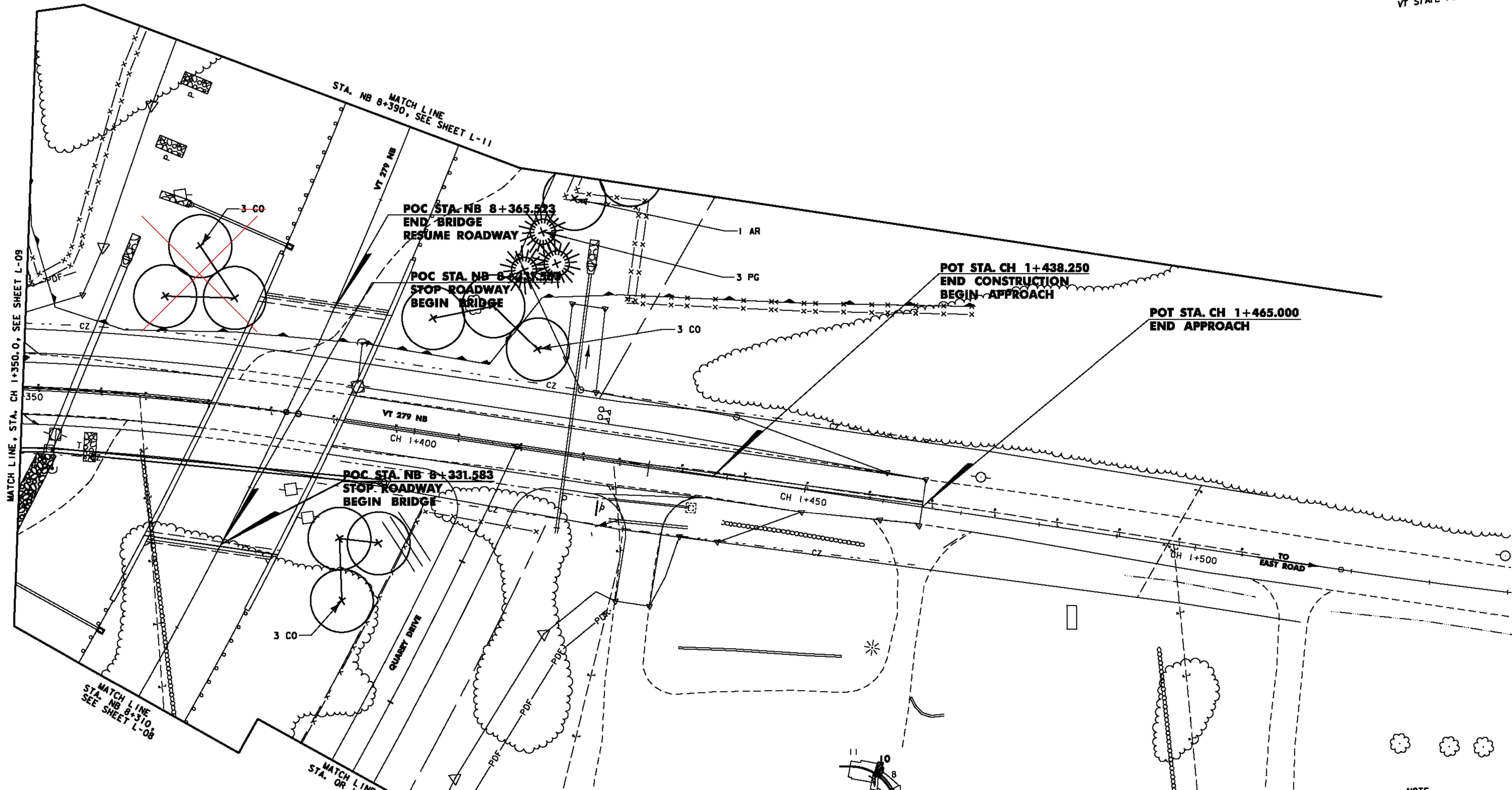
**LEGEND**

AMC.OI (9)	DECIDUOUS SHRUB GROUPING WITH PLANT TYPE AND (QUANTITY)		EXISTING DECIDUOUS TREE
AR.OI (3)	DECIDUOUS TREE GROUPING WITH PLANT TYPE AND (QUANTITY)		EXISTING EVERGREEN TREE
AC.OI (4)	EVERGREEN TREE GROUPING WITH PLANT TYPE AND (QUANTITY)		TOE OF SLOPE
			LIMIT OF CUT
			APPROXIMATE ULTIMATE TOE OF SLOPE
			APPROXIMATE ULTIMATE LIMIT OF CUT
			TREELINE
			R.O.W.



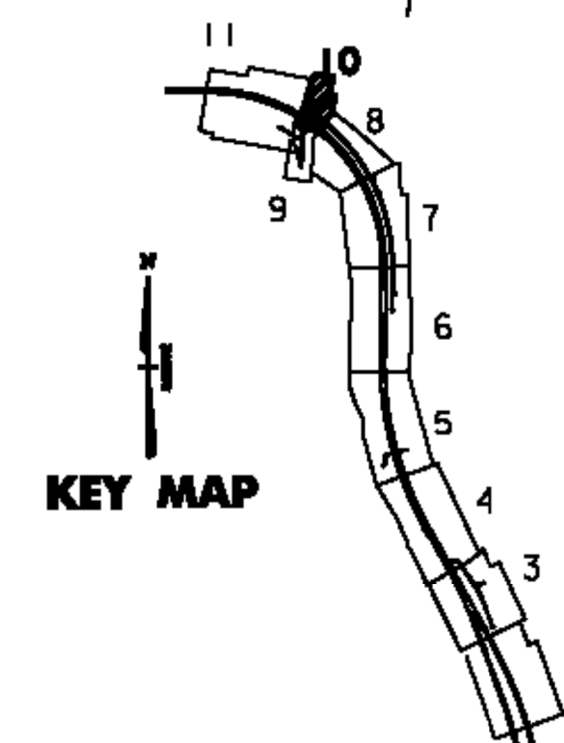
NOTE:  
THIS SHEET TO BE USED FOR  
LANDSCAPING INFORMATION ONLY

<b>VERMONT AGENCY OF TRANSPORTATION</b>	
	PROJECT NAME: BENNINGTON - NORTH
	PROJECT NUMBER: BENNINGTON AC NH 019-(152)
	FILE NAME: \\DGN\zd307c2p08.p1f
	LANDSCAPE PLAN L-09
DESIGN SUPERVISOR: J. BENSON	PLOT DATE: 12/10/2007
DESIGNED BY: J. STEELE/C. BRODIE	DRAWN BY: E. SMALL
CHECKED BY: J. STEELE	SHEET 148 OF



**LEGEND**

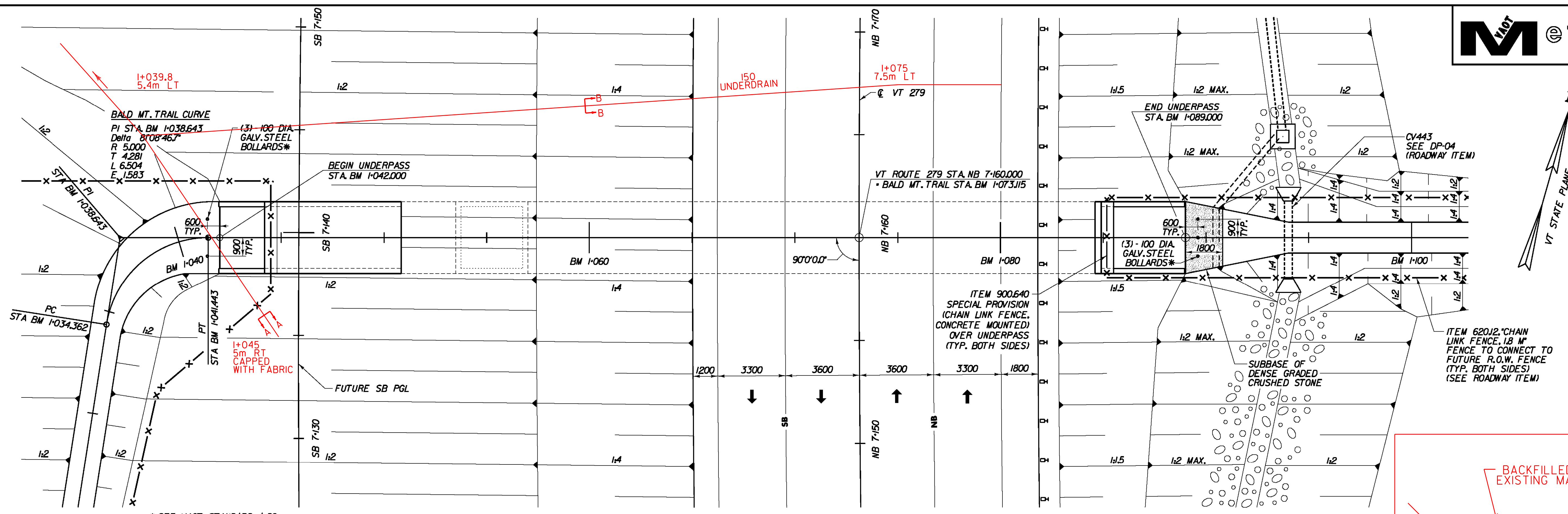
	DECIDUOUS SHRUB GROUPING WITH PLANT TYPE AND (QUANTITY)		EXISTING DECIDUOUS TREE
	DECIDUOUS TREE GROUPING WITH PLANT TYPE AND (QUANTITY)		EXISTING EVERGREEN TREE
	EVERGREEN TREE GROUPING WITH PLANT TYPE AND (QUANTITY)		TOE OF SLOPE
			LIMIT OF CUT
			APPROXIMATE ULTIMATE TOE OF SLOPE
			APPROXIMATE ULTIMATE LIMIT OF CUT
			TREELINE
			R.O.W.



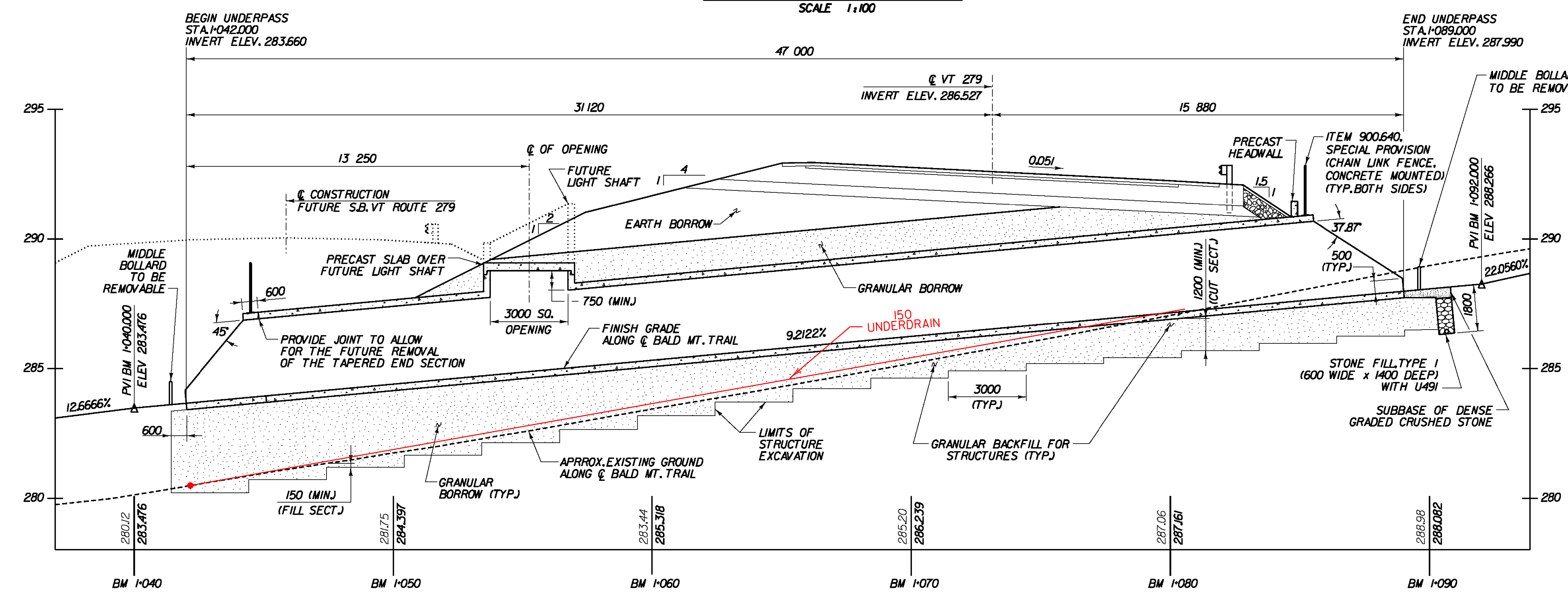
NOTE: THIS SHEET TO BE USED FOR LANDSCAPING INFORMATION ONLY

<b>VERMONT AGENCY OF TRANSPORTATION</b>	
<b>DuBois &amp; King INC.</b>	
PROJECT NAME: BENNINGTON - NORTH	PLOT DATE: 12/10/2007
PROJECT NUMBER: BENNINGTON AC NH 019-(152)	DRAWN BY: E. SMALL
FILE NAME: \DGN\zd307c2p09.p1f	DESIGNED BY: J. STEELE/C. BRODIE
DESIGN SUPERVISOR: J. BENSON	CHECKED BY: J. STEELE
LANDSCAPE PLAN L-10	SHEET 149 OF

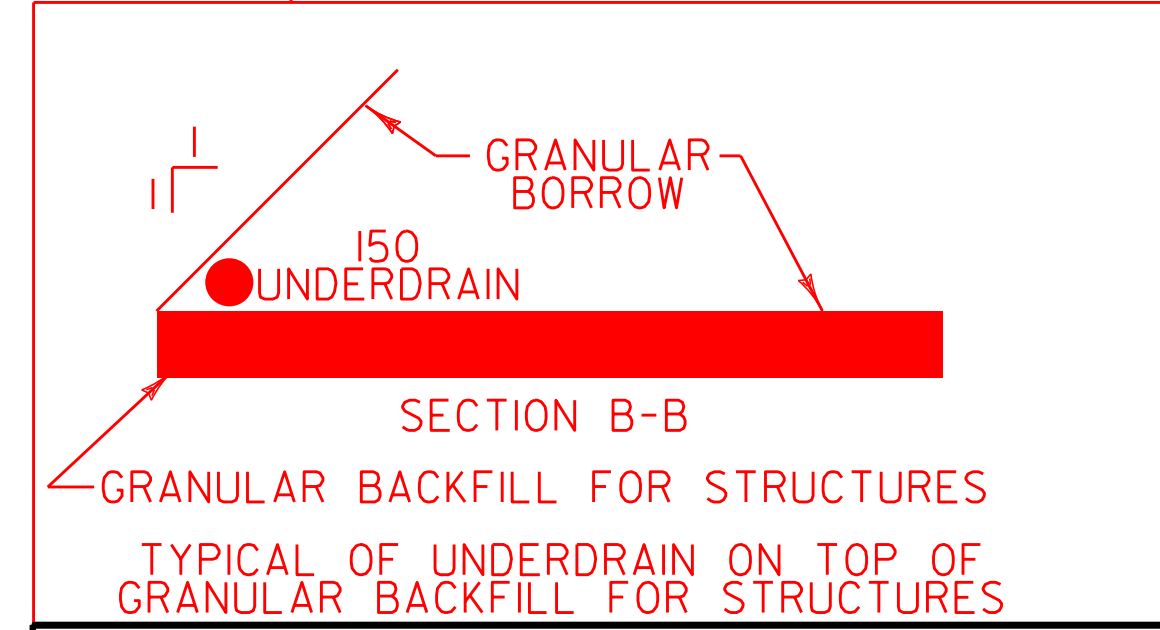
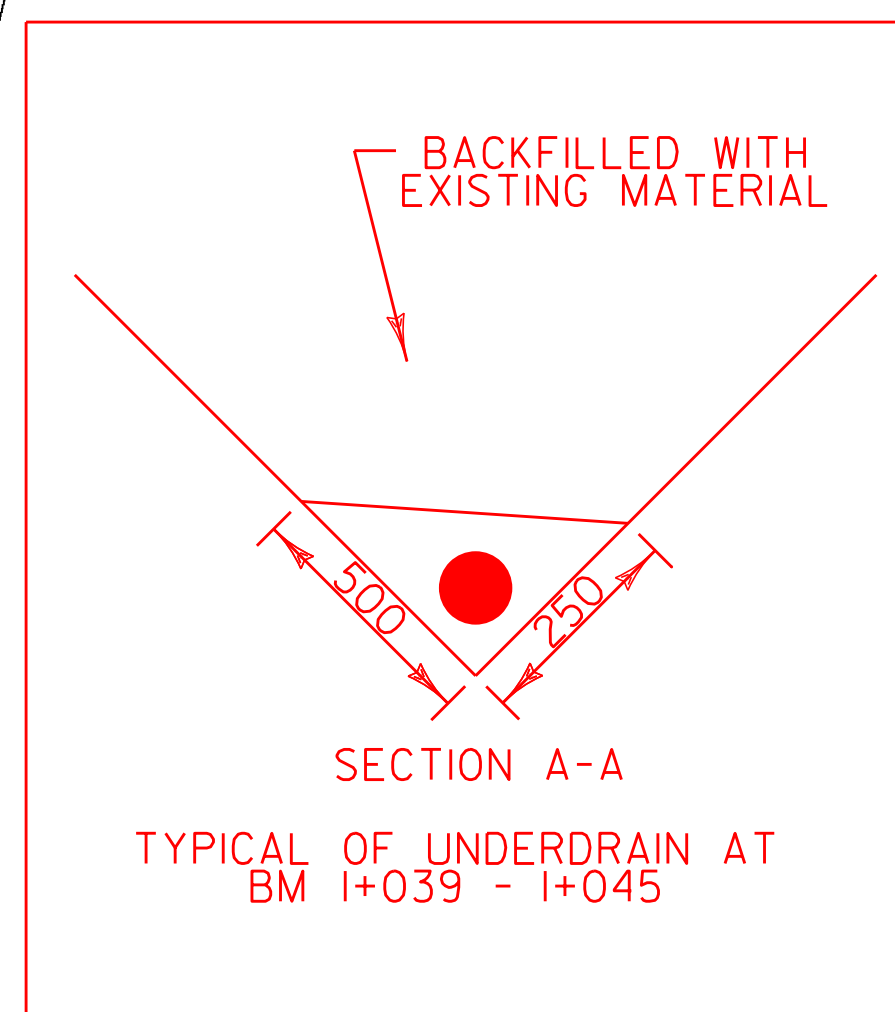
L:\R463PC\CONTRACT NO 2\DRN\zd307c2p09.p1f



**PLAN**  
SCALE 1:100



**BALD MT. TRAIL PROFILE**  
SCALE 1:100



**STATE OF VERMONT AGENCY OF TRANSPORTATION**

Town Of	BENNINGTON	Bridge No.	
Highway No.		Log Sta.	
		Surv. Sta.	

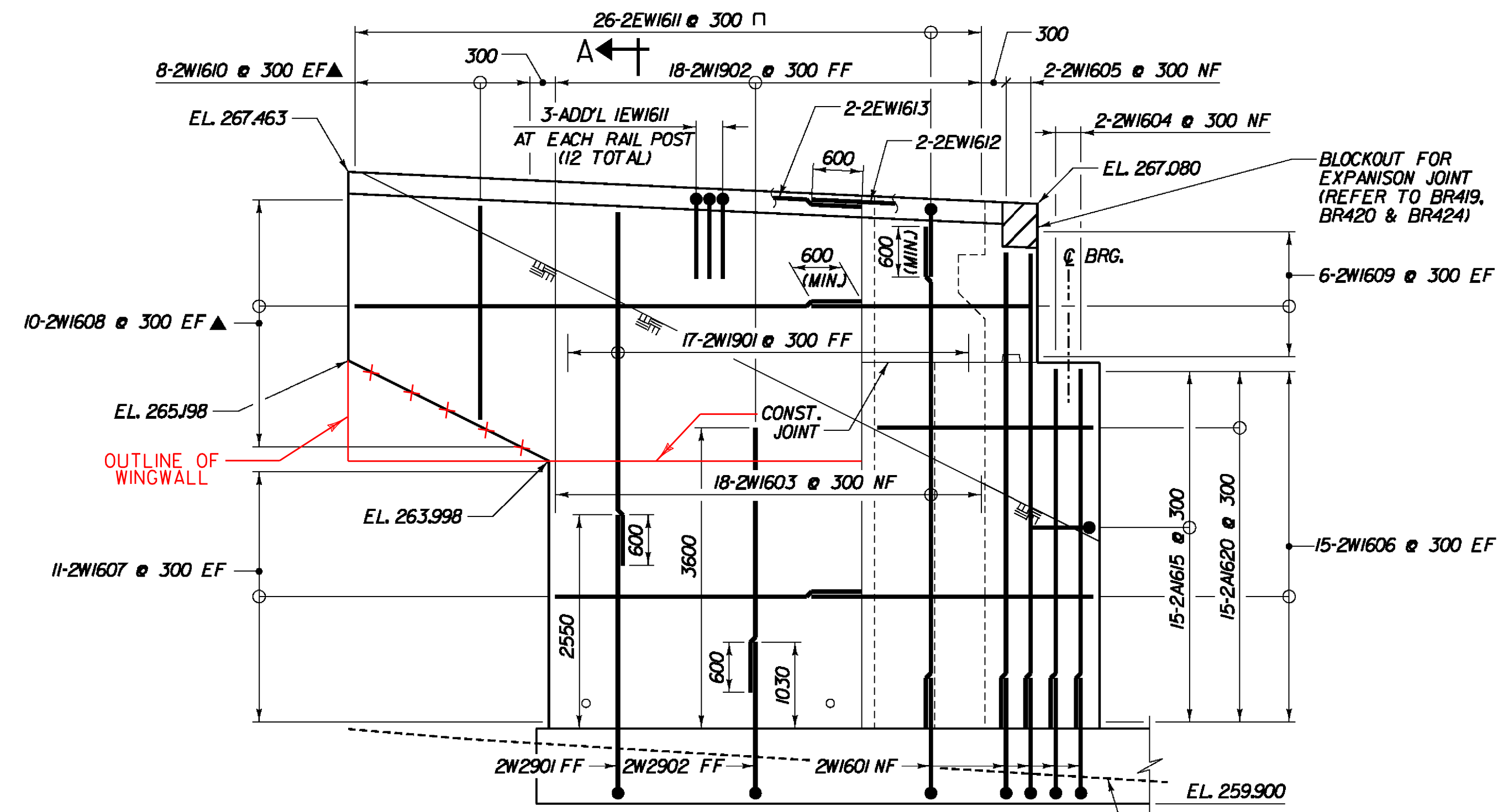
**VT ROUTE 279 OVER BALD MT. TRAIL**

<b>PLAN AND PROFILE</b>	
Designed By	S. BURBANK
Checked By	M. CHENETTE
Date	10/05
Drawn By	S. BURBANK
Bridge Design Supervisor	G. BOGUE
Date	
PROJECT	BENNINGTON
PROJECT NO.	AC NH 019-11521
Dgn.:	... \Design\BM\BM-Plan.dgn
Plot Date:	5/18/2011
Bridge Sheet No.	BR301
Sheet	154 of 267

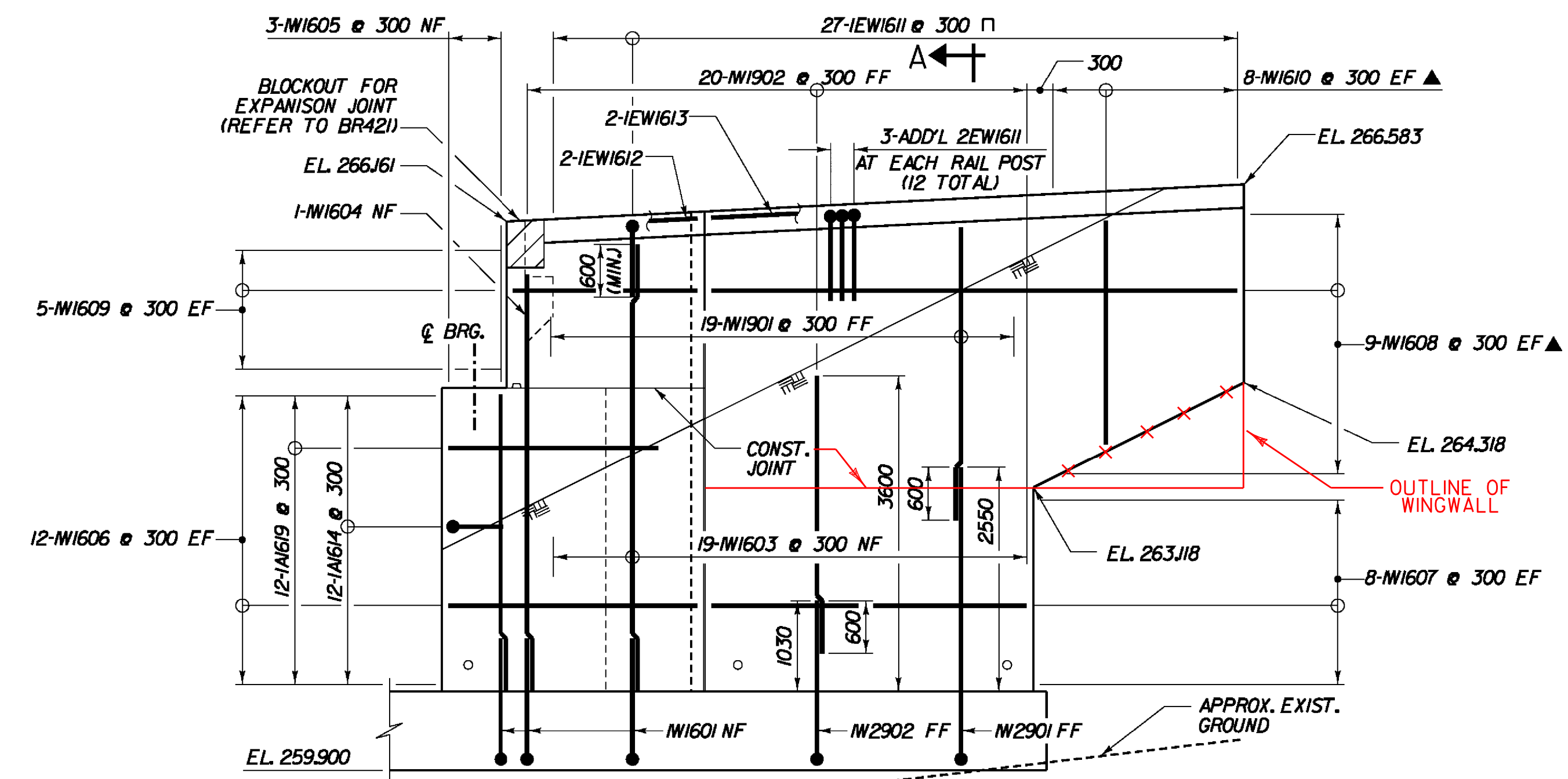


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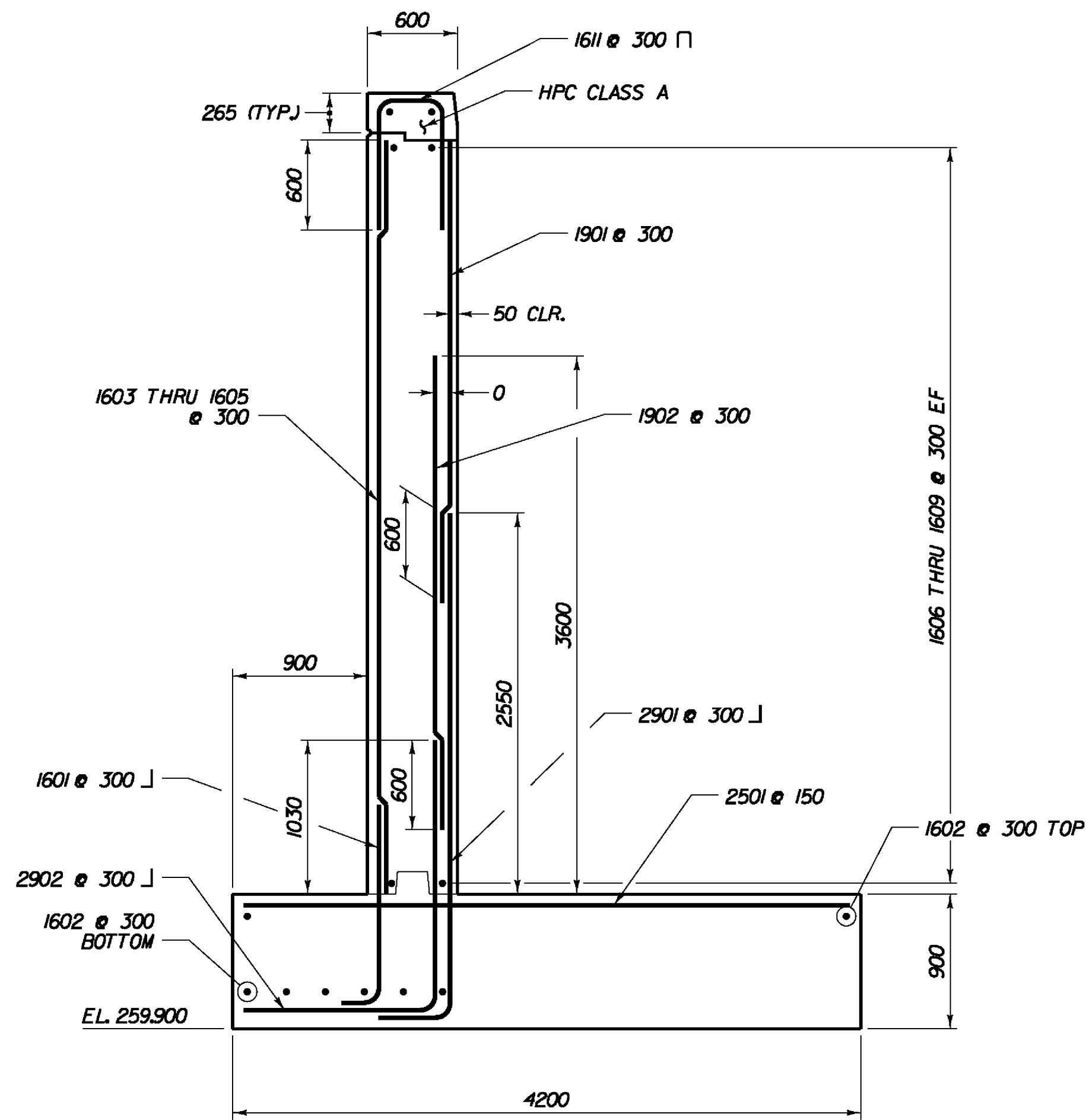
NOTE: ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE EXISTING GROUND. ELEVATIONS SHOWN TO THE NEAREST THOUSANDTH ARE FINISH GRADE OR ARE INVERT ELEVATION.



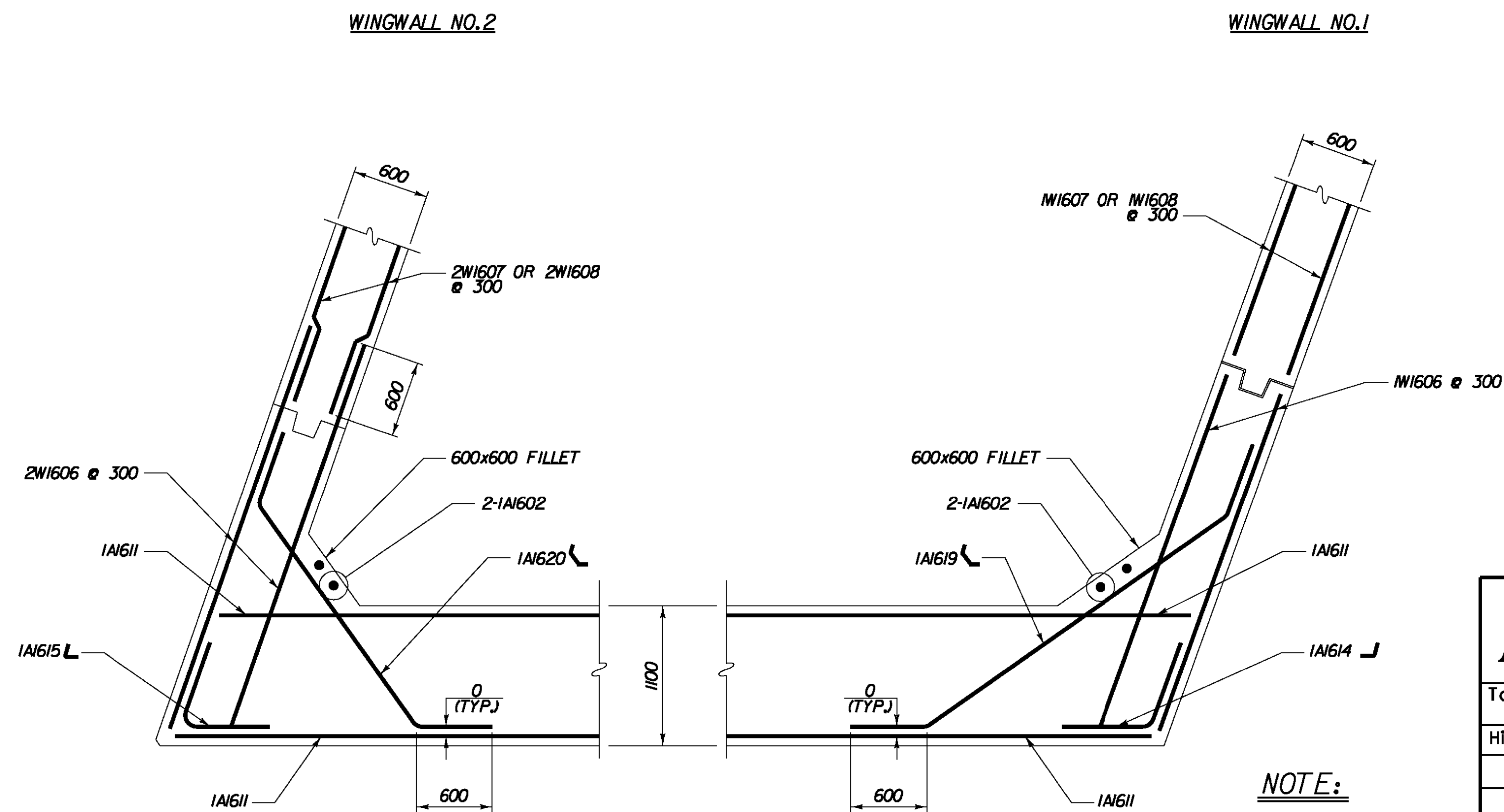
**WINGWALL No. 2 ELEVATION**  
SCALE 1:50



**WINGWALL No. 1 ELEVATION**  
SCALE 1:50



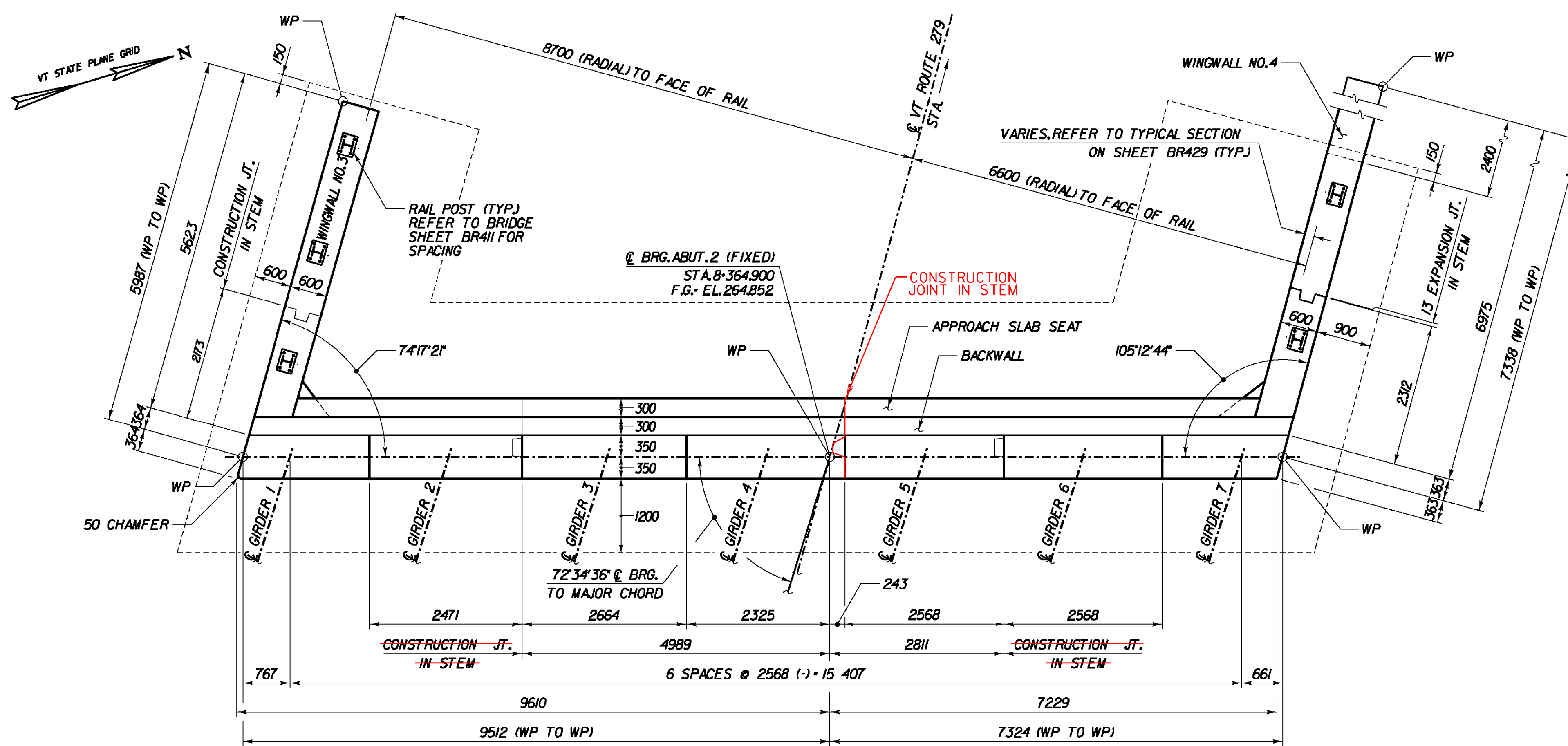
**SECTION A-A**  
SCALE 1:30



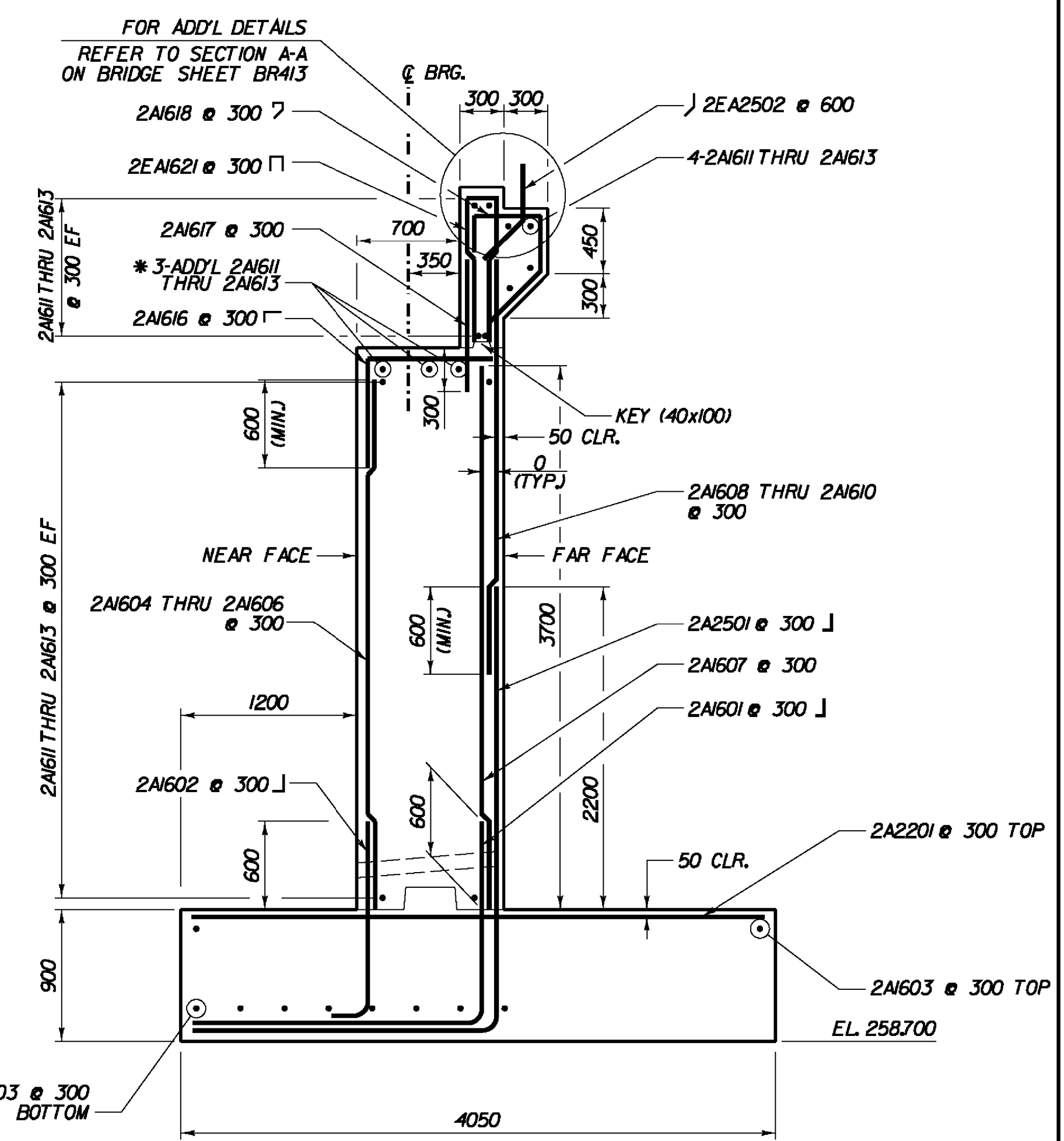
**ABUTMENT 1 - CORNER REINFORCEMENT**  
(BELOW BEAM SEAT)  
SCALE 1:30

**NOTE:**  
 NF - NEAR FACE  
 FF - FAR FACE  
 EF - EACH FACE  
 ▲ - CUT TO FIT IN FIELD  
 75 CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

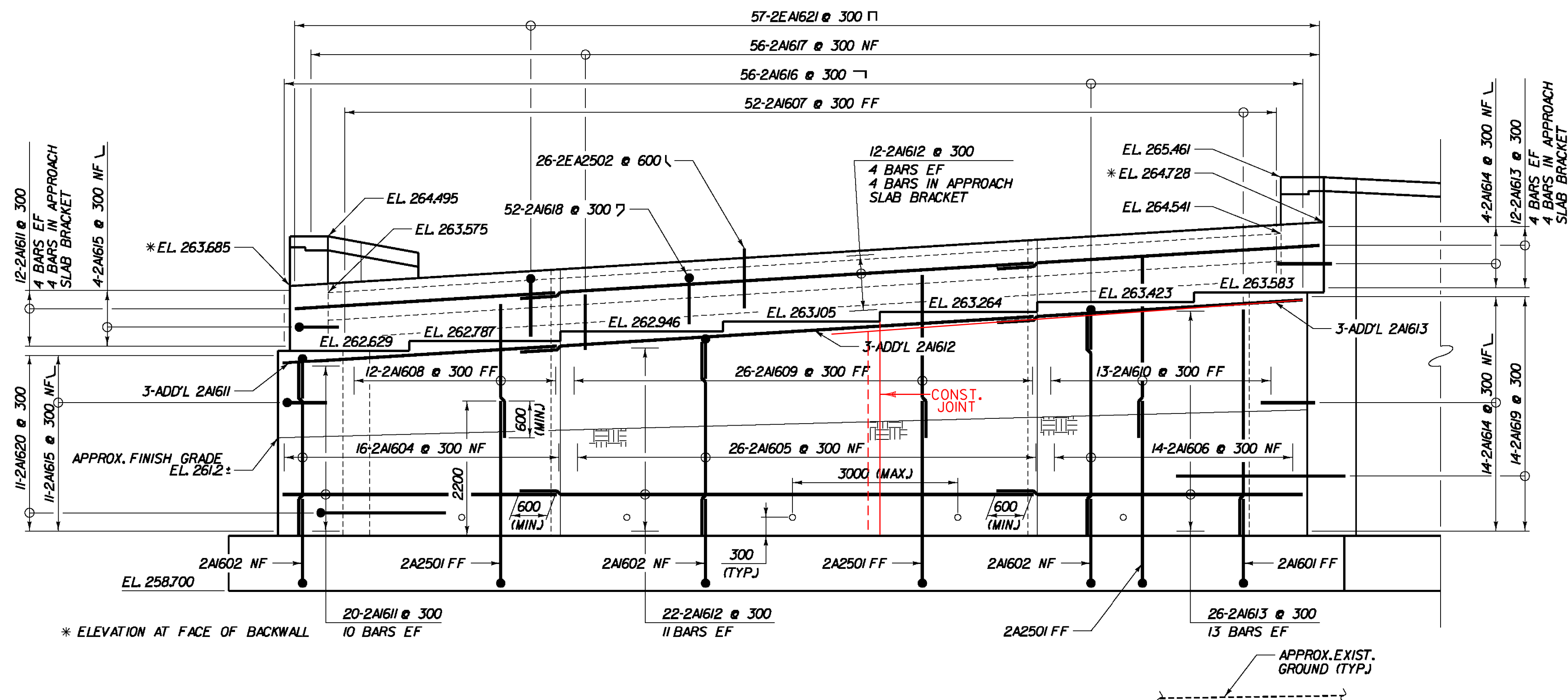
STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of	BENNINGTON	Bridge No.	
Highway No.		Log Sta.	
		Surv. Sta.	
VT ROUTE 279 OVER CHAPEL ROAD			
<b>ABUTMENT 1 WINGWALL DETAILS</b>			
Designed By	T. KNIGHT	Drawn By	J. SOTER
Checked By	G. BOGUE	Date	11/06
		Bridge Design Supervisor	G. BOGUE
		Date	12/05
PROJECT	BENNINGTON	PROJECT NO.	AC NH 019-I(52)
Dgn.:	...desig\ch\CH-Abut1w.dgn	Plot Date:	5/18/2011
Bridge Sheet No.	BR425	Sheet	185 of 267



**ABUTMENT 2 PLAN**  
SCALE 1:50



**ABUTMENT 2 TYPICAL SECTION**  
SCALE 1:30



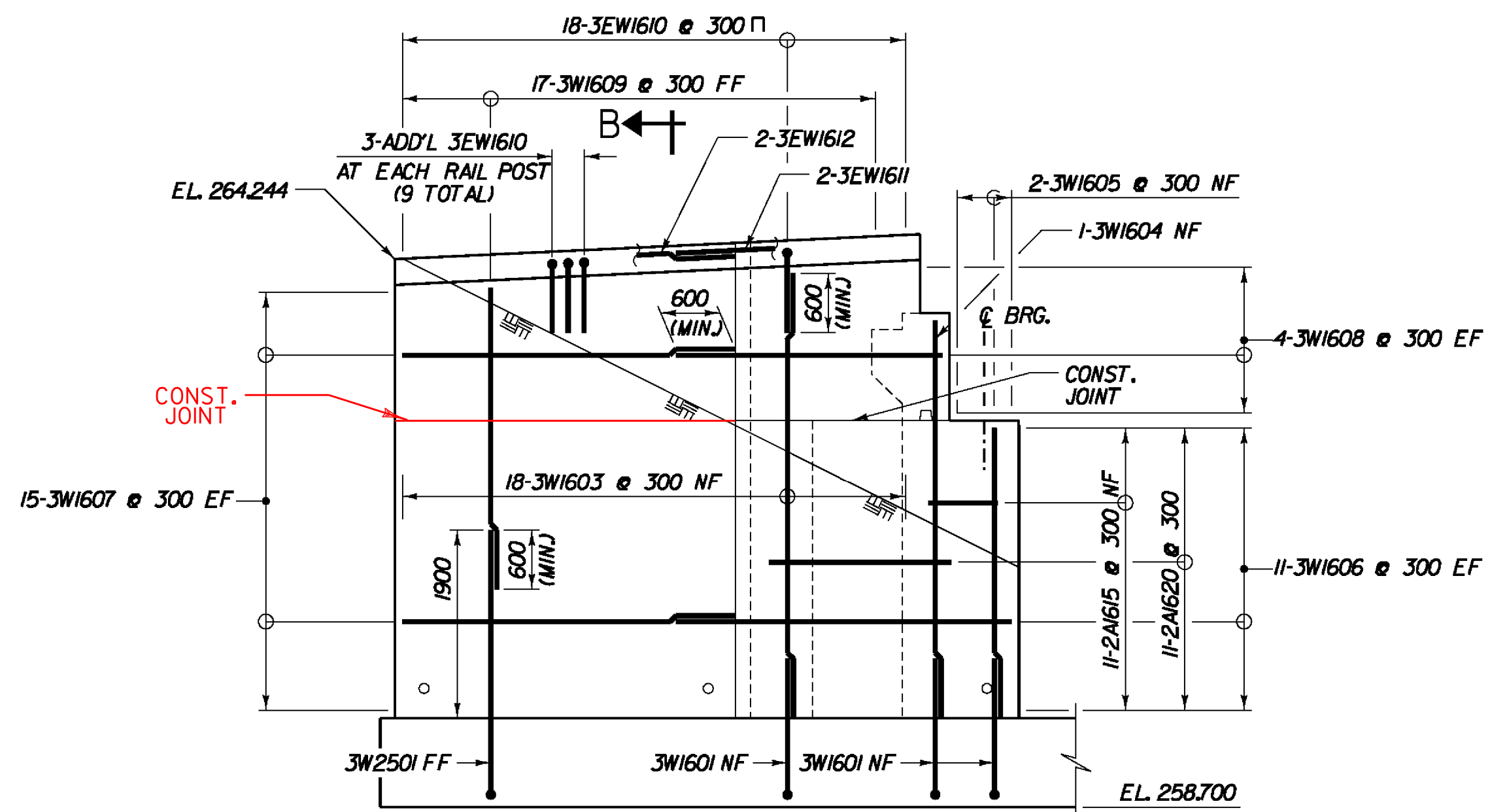
**ABUTMENT 2 ELEVATION**  
SCALE 1:50

**NOTE:**  
 NF - NEAR FACE  
 FF - FAR FACE  
 EF - EACH FACE  
 ▲ - CUT TO FIT IN FIELD  
 75 CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

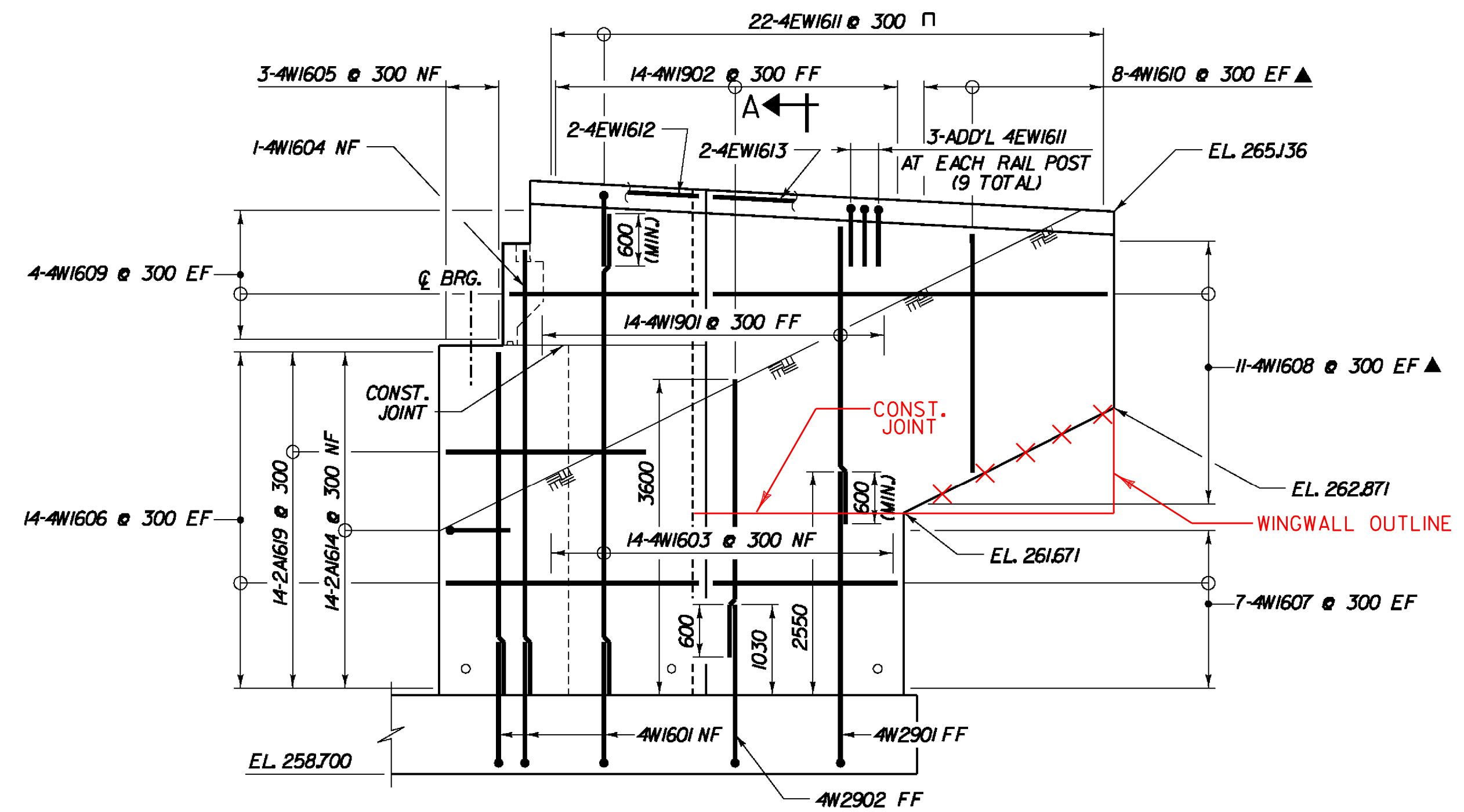
**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

Town Of	BENNINGTON	Bridge No.	
Highway No.		Log Sta.	
		Surv. Sta.	
<b>VT ROUTE 279 OVER CHAPEL ROAD</b>			
<b>ABUTMENT 2 DETAILS</b>			
Designed By	T. KNIGHT	Drawn By	J. SOTER
Checked By	G. BOGUE	Date	05/06
		Bridge Design Supervisor	G. BOGUE
		Date	12/05
PROJECT	BENNINGTON	PROJECT NO.	AC NH 019-K52)
Dgn.:	...desig\ch\CH-Abut 2.dgn	Plot Date:	5/18/2011
Bridge Sheet No.	BR427	Sheet	187 of 267

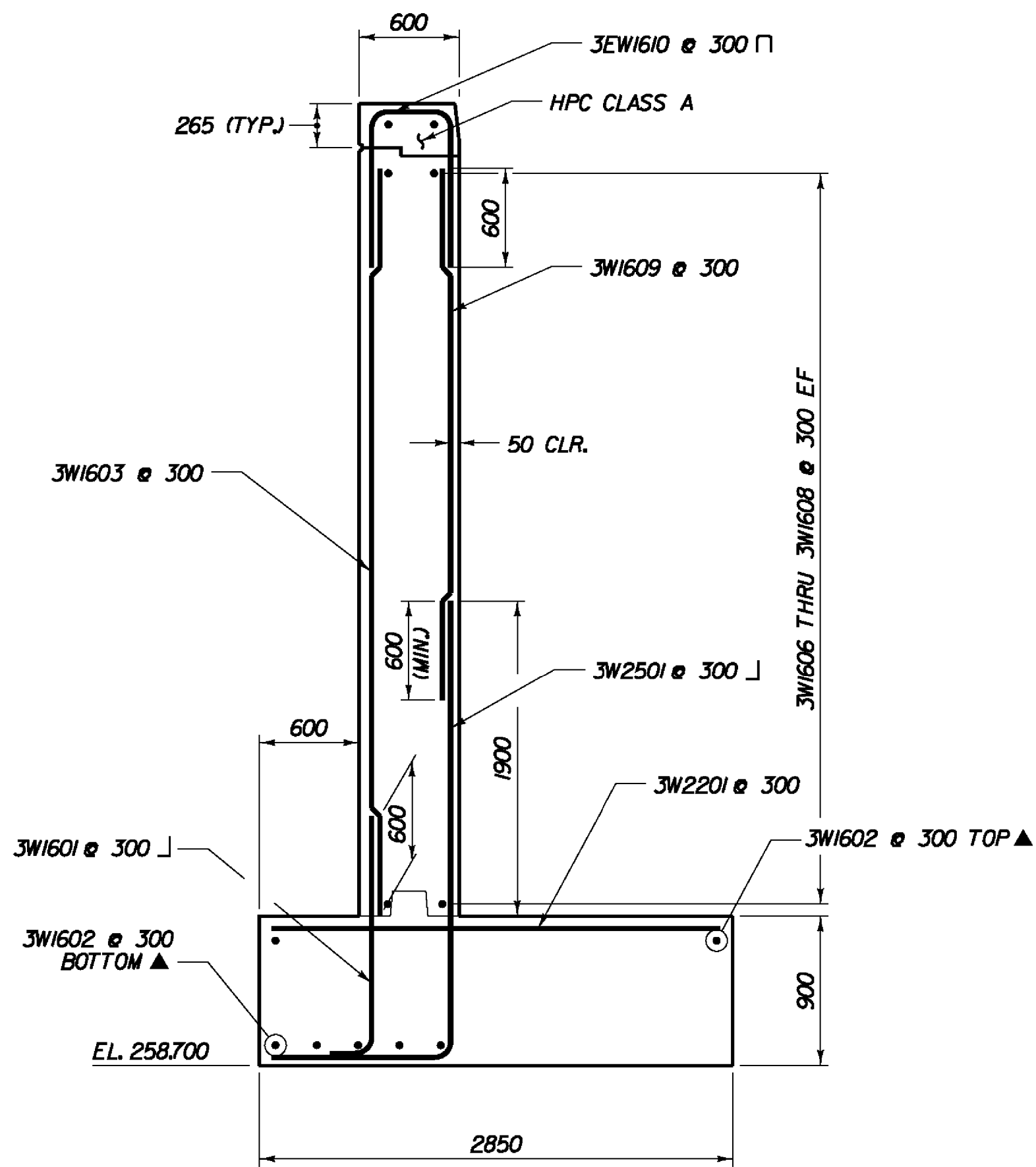
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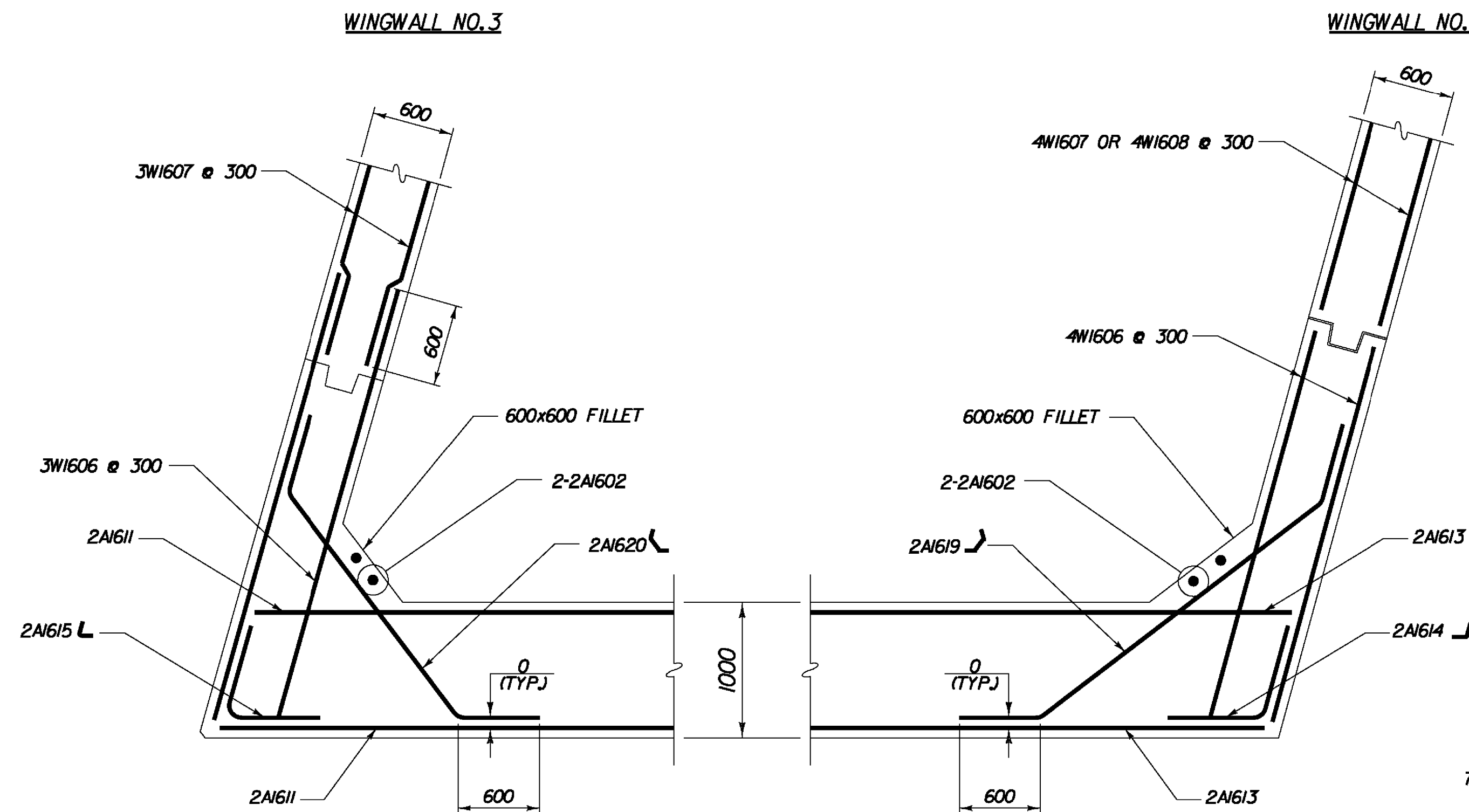
**WINGWALL No. 3**  
SCALE 1:50



**WINGWALL No. 4**  
SCALE 1:50



**SECTION B-B**  
SCALE 1:30



**ABUTMENT 2 - CORNER REINFORCEMENT**  
(BELOW BEAM SEAT)  
SCALE 1:30

**NOTE:**  
NF - NEAR FACE  
FF - FAR FACE  
EF - EACH FACE  
▲ - CUT TO FIT IN FIELD  
75 CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

**NOTE:**  
FOR SECTION A-A SEE BRIDGE SHEET BR425

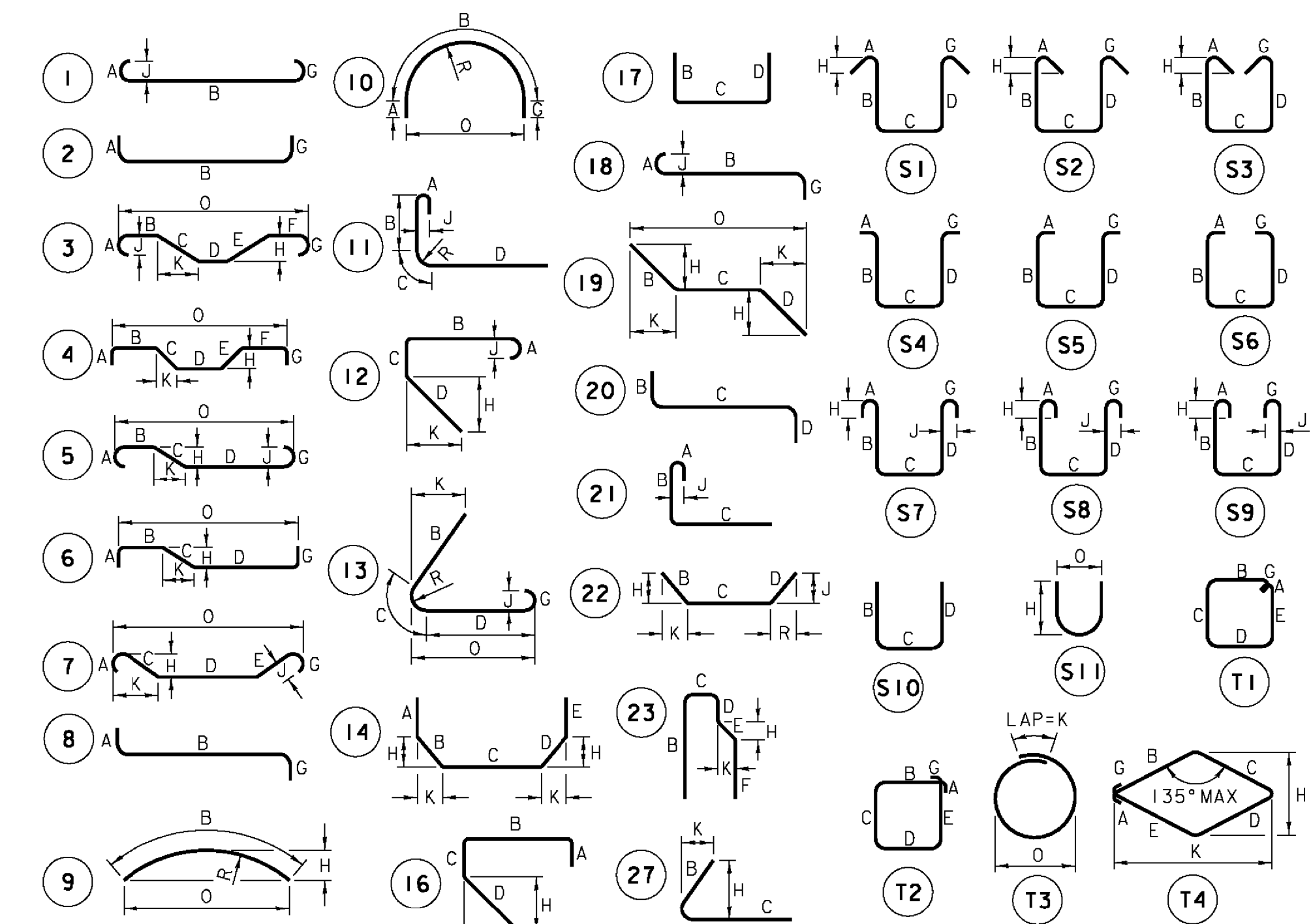
STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of	BENNINGTON	Bridge No.	
Highway No.		Log Sta.	
		Surv. Sta.	
<b>VT ROUTE 279 OVER CHAPEL ROAD</b>			
<b>ABUTMENT 2 WINGWALL DETAILS</b>			
Designed By	T. KNIGHT	Drawn By	J. SOTER
Checked By	Date	Bridge Design Supervisor	
G. BOGUE	05/06	G. BOGUE	Date 12/05
PROJECT	BENNINGTON	PROJECT NO.	AC NH 019-I(52)
Dgn.:	...des\gn\ch\CH-Abut2w.dgn	Plot Date:	5/18/2011
Bridge Sheet No.	BR428	Sheet	188 of 267





NOTES

- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING 55M SHALL CONFORM TO THE REQUIREMENT OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31M (ASTM A 615M-S1). ALL BARS SHALL BE GRADE 420, UNLESS OTHERWISE DESIGNATED.
- FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
- "J" DIMENSION ON 180 DEGREE HOOKS ARE TO BE SHOWN ONLY WHEN NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSION ON STIRRUPS ARE TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- ▲ DENOTES BARS TO BE CUT IN FIELD.
- \* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
- △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
- "E" IN PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



BAR SIZE DESIGNATION	ASTM STANDARD REINFORCING BARS			
	NOMINAL MASS kg/m	NOMINAL DIAMETER mm	CROSS SECTIONAL AREA mm²	PERIMETER mm
10	0.560	9.5	71	29.84
13	0.994	12.7	129	39.90
16	1.552	15.9	199	49.95
19	2.235	19.1	284	60.00
22	3.042	22.2	387	69.74
25	3.973	25.4	510	79.80
29	5.060	28.7	645	90.16
32	6.404	32.3	819	101.47
36	7.907	35.8	1006	112.47
43	11.380	43.0	1452	135.09
57	20.240	57.3	2581	180.01

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of **BENNINGTON** Bridge No. \_\_\_\_\_

Highway No. \_\_\_\_\_ Log Sta. \_\_\_\_\_  
Surv. Sta. \_\_\_\_\_

**VT ROUTE 279 OVER CHAPEL ROAD**

**REINFORCING STEEL SCHEDULE**

Designed By **T. KNIGHT** Drawn By **J. SOTER**

Checked By **T. KNIGHT** Date **07/06** Bridge Design Supervisor **G. BOGUE** Date **12/05**

PROJECT **BENNINGTON** PROJECT NO. **AC NH 019-K52**

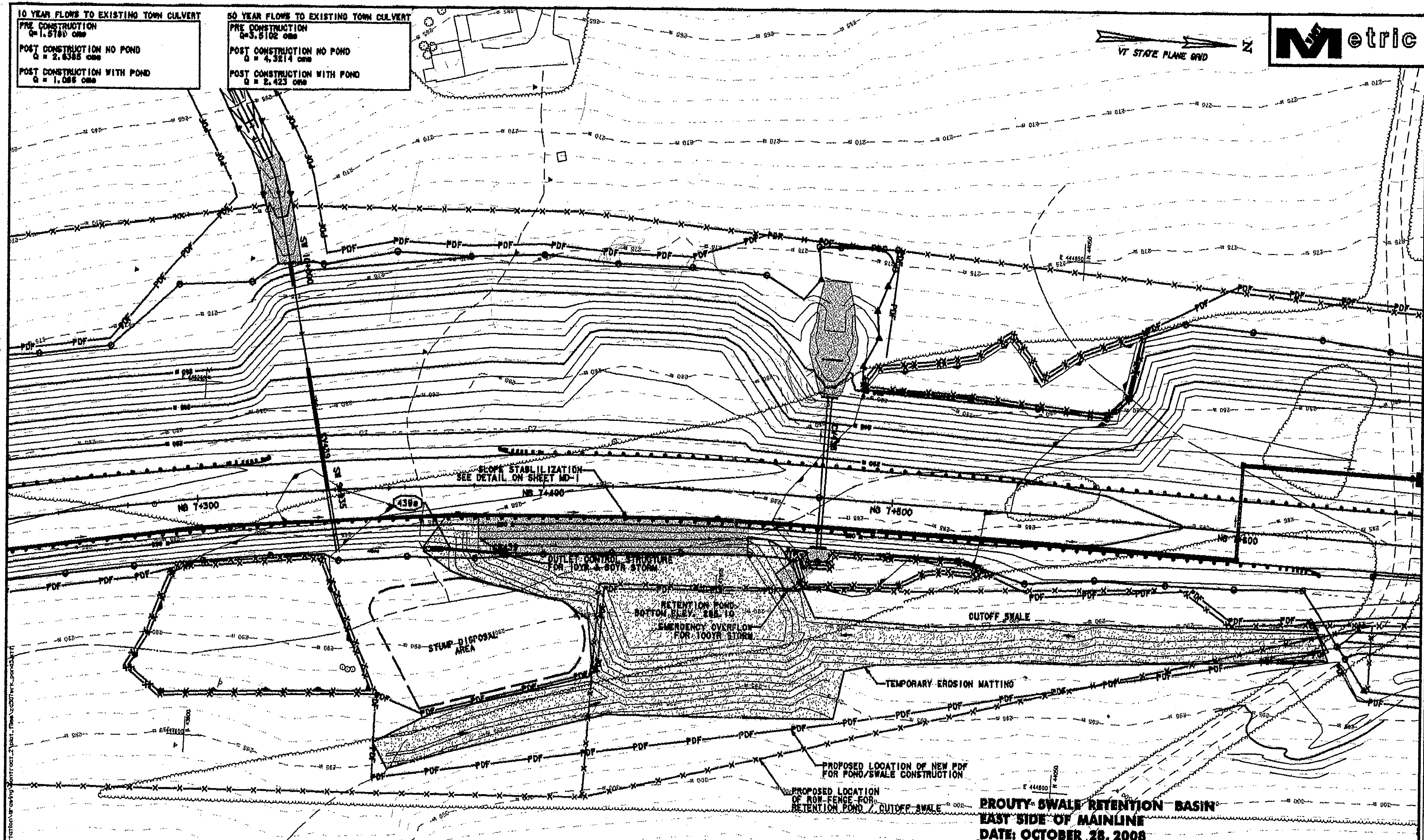
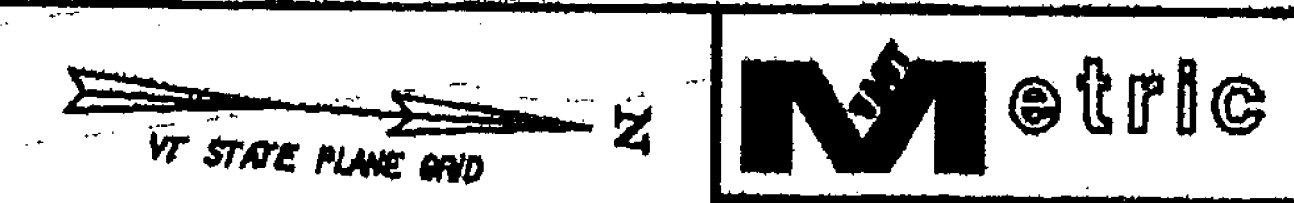
Dgn.: ...\\des\gn\ch\CH-RebarSched.dgn Plot Date: 5/18/2011

Bridge Sheet No. **BR433** Sheet **193** of **267**

ITEM NO.	PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	ITEM NO.	PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O			
<b>ABUTMENT 1</b>																		<b>WINGWALL 2</b>																				
1	53	16	3600	1A1601	17													94	22	16	1675	2W1601	17	250	1425													
2	62	16	1675	1A1602	17													95	21	16	8156	2W1602	STR.															
3	44	16	9760	1A1603	STR.													96	18	16	5975	2W1603	STR.															
4	16	16	4120	1A1604	STR.													97	2	16	4295	2W1604	STR.															
5	26	16	3675	1A1605	STR.													98	2	16	5620	2W1605	STR.															
6	16	16	3380	1A1606	STR.													99	30	16	3375	2W1606	STR.															
7	53	16	3700	1A1607	STR.													100	22	16	3675	2W1607	STR.															
8	13	16	3350	1A1608	STR.													101	20	16	6075	2W1608	STR.															
9	26	16	3050	1A1609	STR.													102	12	16	2700	2W1609	STR.															
10	15	16	2600	1A1610	STR.													103	16	16	2900	2W1610	STR.															
11	45	16	5290	1A1611	STR.													104	38	16	2650	2EW1611	17	1100	450	1100												
12	43	16	8400	1A1612	STR.													105	2	16	2200	2EW1612	STR.															
13	39	16	4500	1A1613	STR.													106	2	16	6100	2EW1613	STR.															
14	17	16	1400	1A1614	22		700	700					237			658		107	17	19	4300	2W1901	STR.															
15	20	16	1400	1A1615	27		700	700					660			230		108	19	19	3170	2W1902	STR.															
16	58	16	1875	1A1616	17			975	900									109	37	25	4050	2W2501	STR.															
17	58	16	900	1A1617	STR.													110	17	29	3850	2W2901	17	475	3375													
18	53	16	1975	1A1618	16	250	575	325	825				580		580			111	19	29	3230	2W2902	17	1375	1855													
19	12	16	4740	1A1619	22		600	3540	600				345	345	490	490		112	21	16	1675	3W1601	17	250	1425													
20	15	16	3725	1A1620	22		600	2525	600				490	490	345	345		113	15	16	7740	3W1602	STR.															
21	4	16	8880	1EA1621	STR.													114	18	16	4300	3W1603	STR.															
22	3	16	3860	1EA1622	17		1830	200	1830									115	1	16	4000	3W1604	STR.															
23	53	16	3395	1EA1623	17		1560	275	1560									116	2	16	2950	3W1605	STR.															
24	4	16	3700	1EA1624	17		1750	200	1750									117	22	16	3425	3W1606	STR.															
25	54	22	3900	1A2201	STR.													118	30	16	3400	3W1607	STR.															
26	53	25	5200	1A2501	17		2175	3025										119	8	16	2700	3W1608	STR.															
27	27	25	1200	1EA2502	22		600	600					424		424			120	17	16	3250	3W1609	STR.															
28	52	16	3500	2A1601	17		2075	1425										121	28	16	2275	3EW1610	17	1125	425	1125												
29	60	16	1675	2A1602	17		250	1425										122	2	16	2400	3EW1611	STR.															
30	44	16	9425	2A1603	STR.													123	2	16	3400	3EW1612	STR.															
31	16	16	2950	2A1604	STR.													124	20	22	2700	3W2201	STR.															
32	26	16	3270	2A1605	STR.													125	19	25	3800	3W2501	17	1075	2725													
33	14	16	3750	2A1606	STR.													126	18	16	1675	4W1601	17	250	1425													
34	56	16	3700	2A1607	STR.													127	14	16	6300	4W1602	STR.															
35	13	16	2190	2A1608	STR.													128	14	16	5300	4W1603	STR.															
36	26	16	2665	2A1609	STR.													129	1	16	5050	4W1604	STR.															
37	13	16	2985	2A1610	STR.													130	3	16	3900	4W1605	STR.															
38	35	16	4620	2A1611	STR.													131	28	16	2890	4W1606	STR.															
39	37	16	8400	2A1612	STR.													132	15	16	2175	4W1607	STR.															
40	41	16	5020	2A1613	STR.													133	22	16	4575	4W1608	STR.															
41	18	16	1400	2A1614	22		700	700					675		184			134	8	16	2160	4W1609	STR.															
42	15	16	1400	2A																																		

10 YEAR FLOWS TO EXISTING TOWN CULVERT  
 PRE CONSTRUCTION  
 Q = 1.5180 cfs  
 POST CONSTRUCTION NO POND  
 Q = 2.6385 cfs  
 POST CONSTRUCTION WITH POND  
 Q = 1.085 cfs

50 YEAR FLOWS TO EXISTING TOWN CULVERT  
 PRE CONSTRUCTION  
 Q = 3.5102 cfs  
 POST CONSTRUCTION NO POND  
 Q = 4.3214 cfs  
 POST CONSTRUCTION WITH POND  
 Q = 2.423 cfs



PIPE #	LOCATION	COMMENTS
439a	NB 7+370.1 - NB 7+388.6 RT	750 X 18.1 IN. PIPE OPTION 2

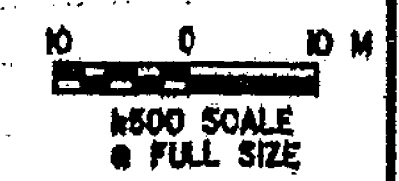
STRUCTURE #	LOCATION	COMMENTS
CB439	NB 7+388.6 RT	2 TYPE B GRATES

**PROUTY SWALE RETENTION BASIN**  
 EAST SIDE OF MAINLINE  
 DATE: OCTOBER 28, 2008

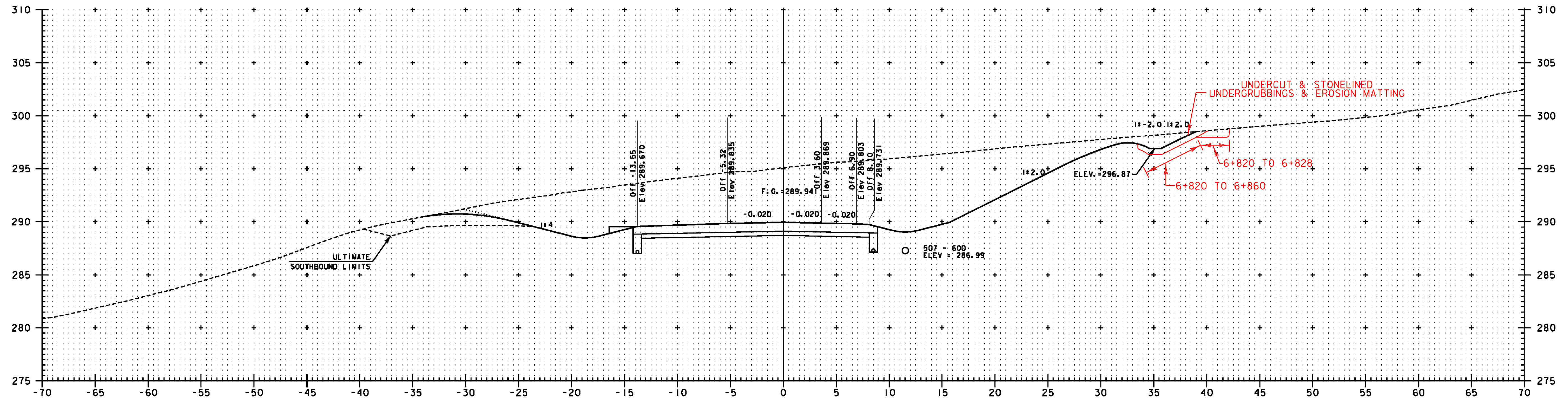
**VERMONT AGENCY OF TRANSPORTATION**



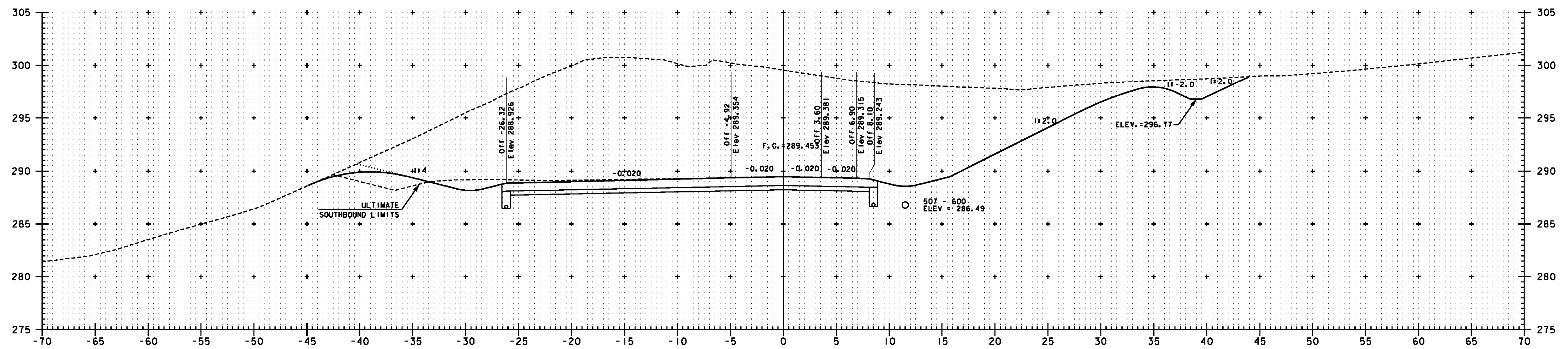
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PROJECT NUMBER: NB NH199165-1(52)	DESIGN SUPERVISOR: GREG EDWARDS	DRAWN BY: STANTEC
	DESIGNED BY: MARC FORSY	CHECKED BY: GARY SANTY
		SHEET OF 287





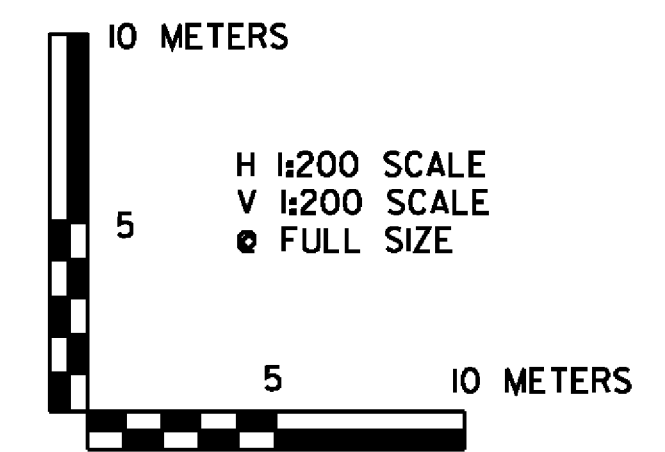


NB 6+820



NB 6+800

**NOTE:**  
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**SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (ITEM 490.30).**  
**PLEASE REFER TO THE ROADWAY TYPICAL SECTIONS FOR DETAILS.**

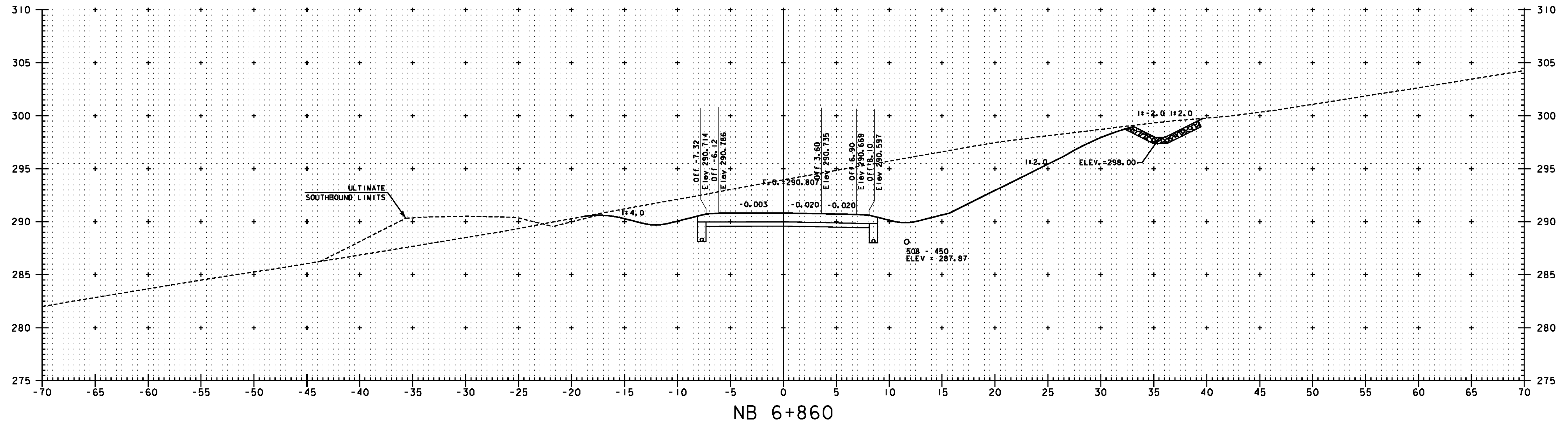


**VERMONT AGENCY OF TRANSPORTATION**

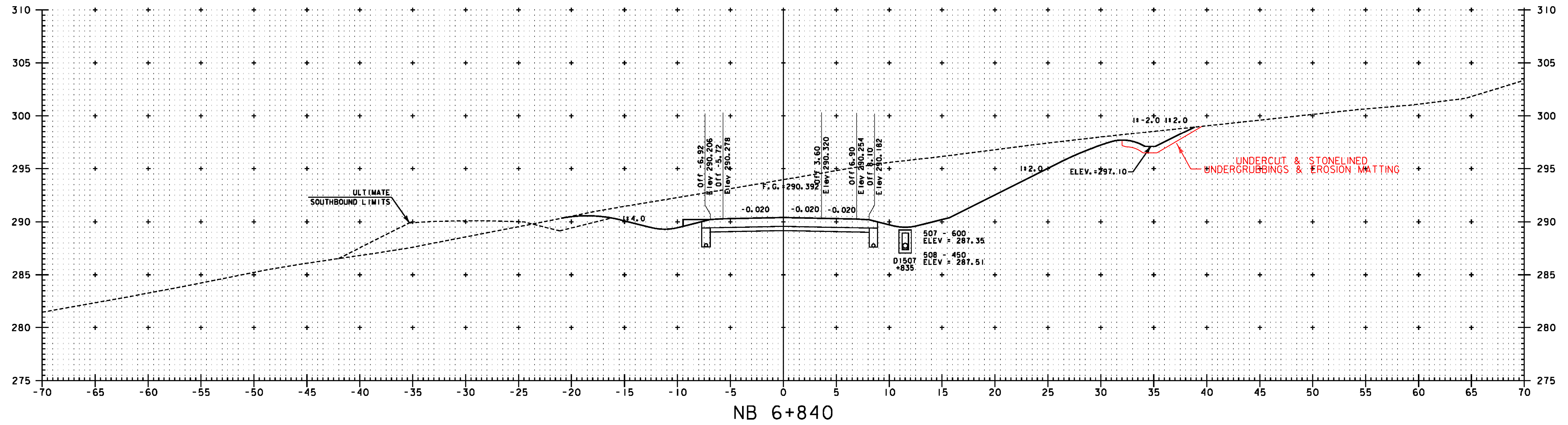


PROJECT NAME:	BENNINGTON	FILE NAME:	...plot_files\zd307c2xs_nb.prf	PLOT DATE:	5/16/2011
PROJECT NUMBER:	AC NH 019-(152)	DESIGN SUPERVISOR:	GREG EDWARDS	DRAWN BY:	STANTEC
		DESIGNED BY:	MARC FOISY	CHECKED BY:	GARY SANTY
		<b>NB MAINLINE CROSS SECTIONS NBX-11</b>		SHEET	204 OF 267

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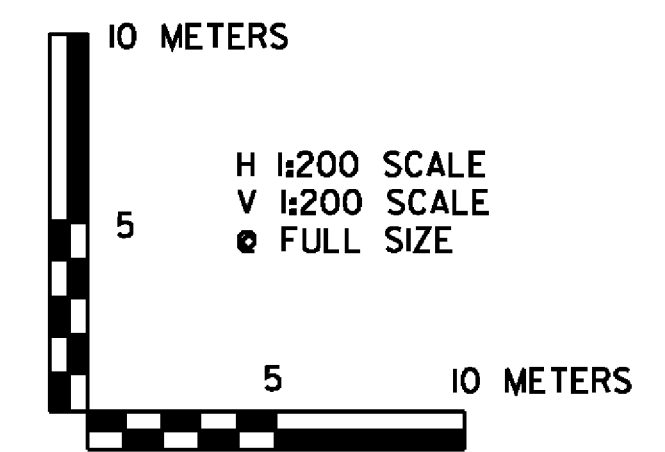


NB 6+860



NB 6+840

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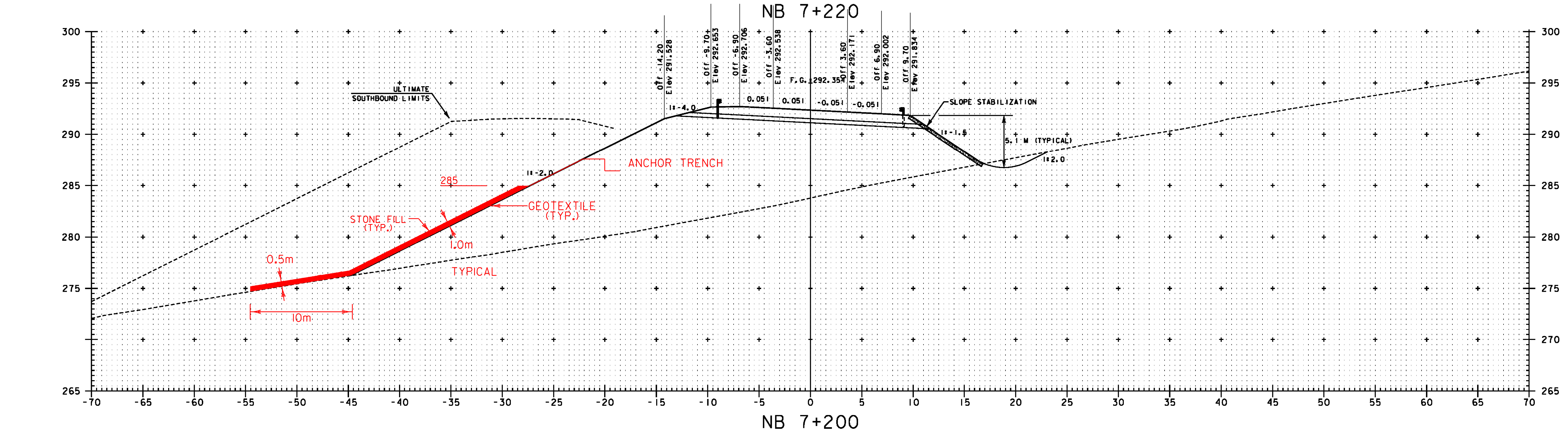
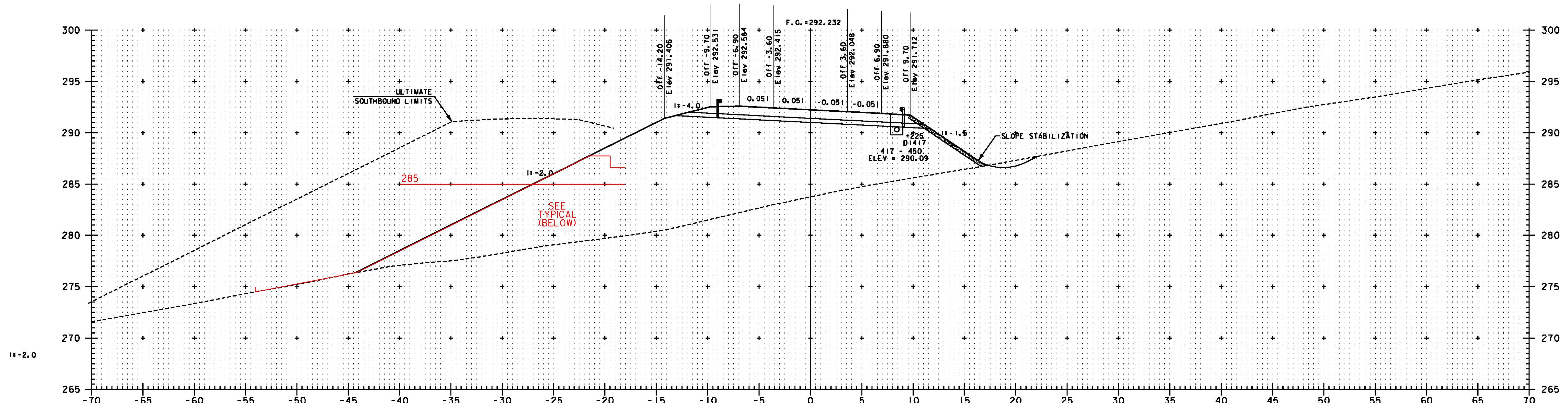


**VERMONT AGENCY OF TRANSPORTATION**

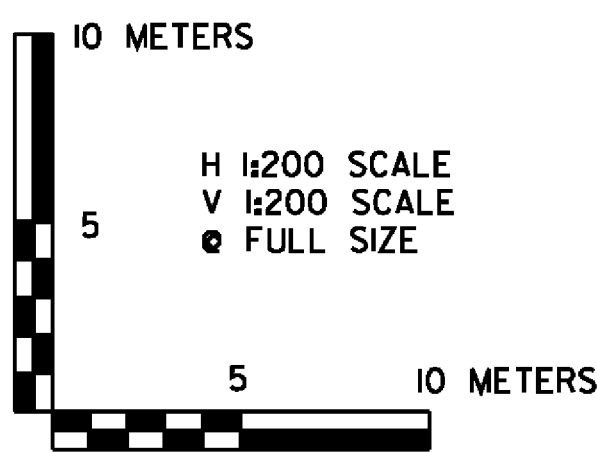
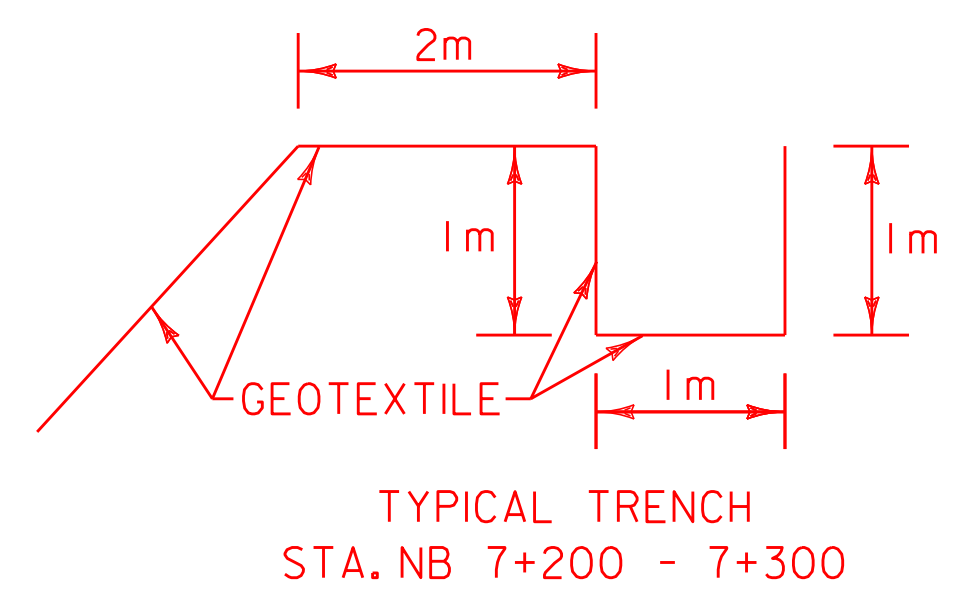


PROJECT NAME:	BENNINGTON
PROJECT NUMBER:	AC NH 019-1(52)
FILE NAME:	...plot_files\zd307c2xs_nb.prf
DESIGN SUPERVISOR:	GREG EDWARDS
DESIGNED BY:	MARC FOISY
DRAWN BY:	STANTEC
CHECKED BY:	GARY SANTY
PLOT DATE:	5/16/2011
NB MAINLINE CROSS SECTIONS NBX-12	
SHEET 205 OF 267	

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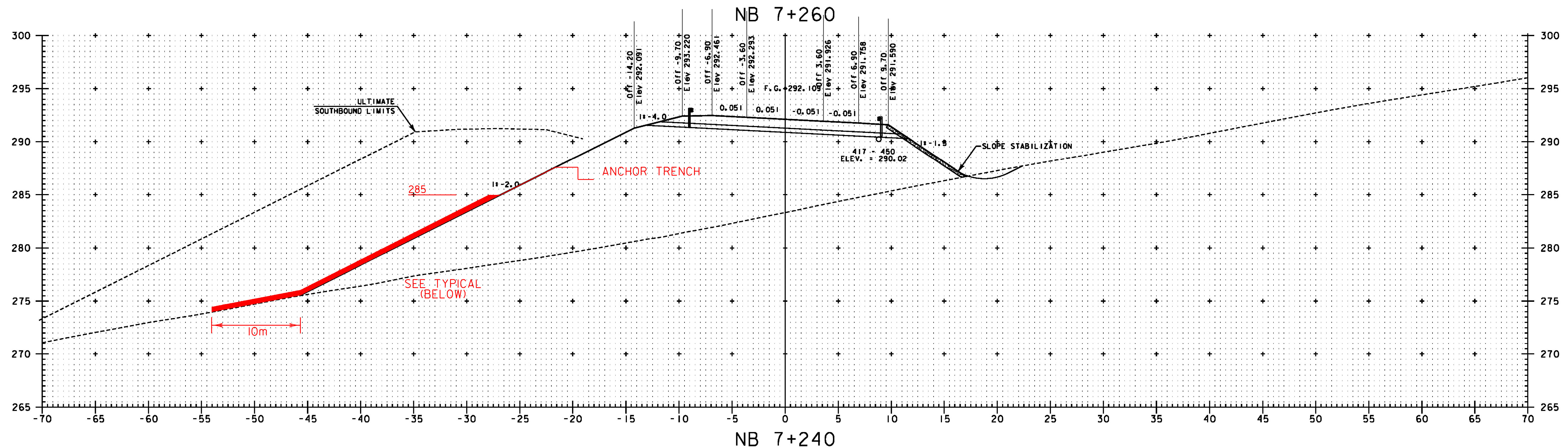
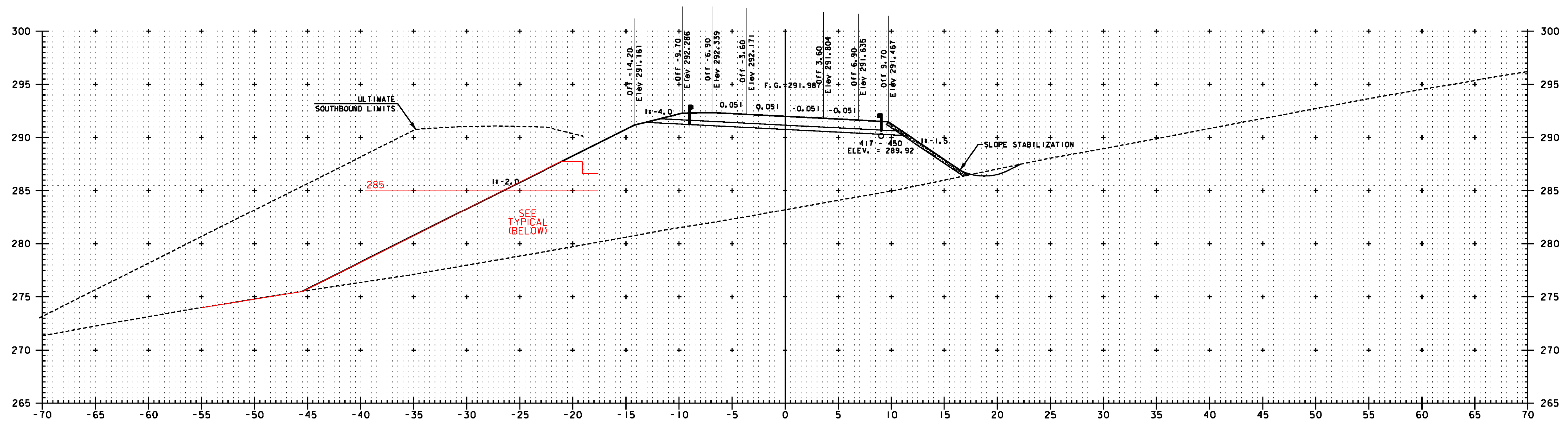
**NOTE:**  
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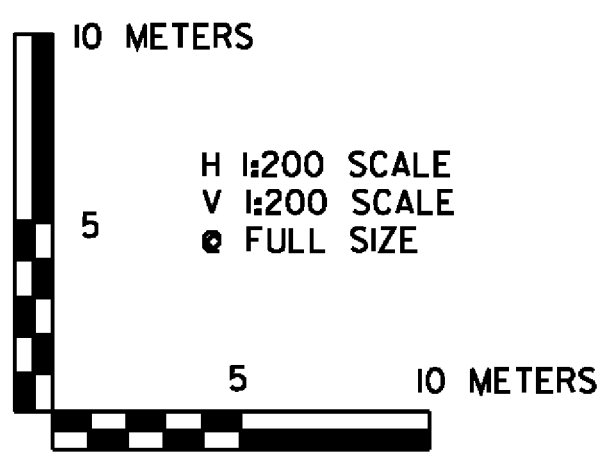
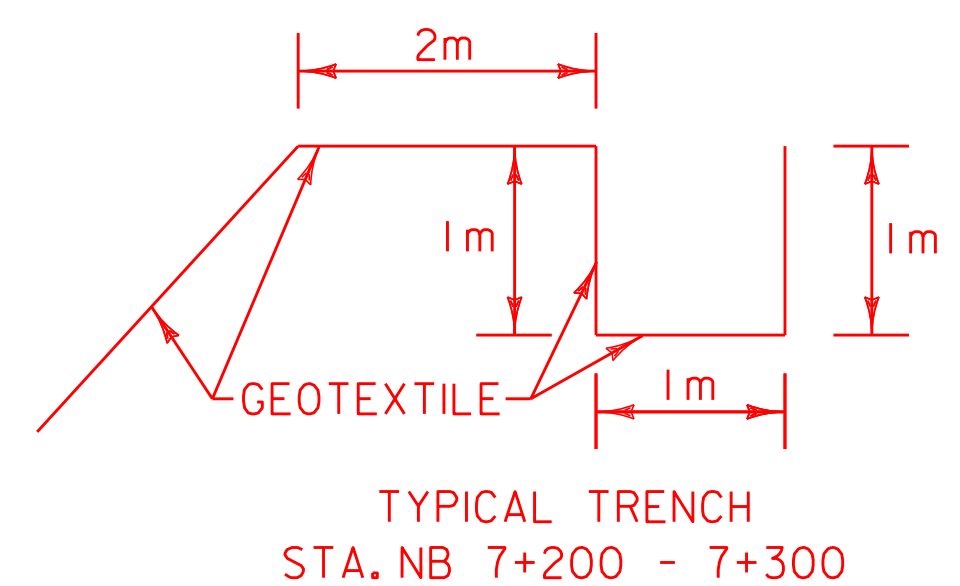
**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: AC NH 019-(152)  
 FILE NAME: ...plot\_files\zd307c2xs\_nb.prf PLOT DATE: 5/16/2011  
 DESIGN SUPERVISOR: GREG EDWARDS DRAWN BY: STANTEC  
 DESIGNED BY: MARC FOISY CHECKED BY: GARY SANTY  
 NB MAINLINE CROSS SECTIONS NBX-21 SHEET 214 OF 267



**NOTE:**  
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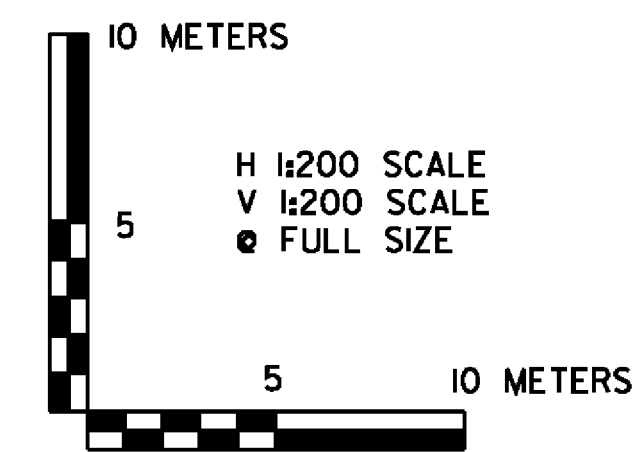
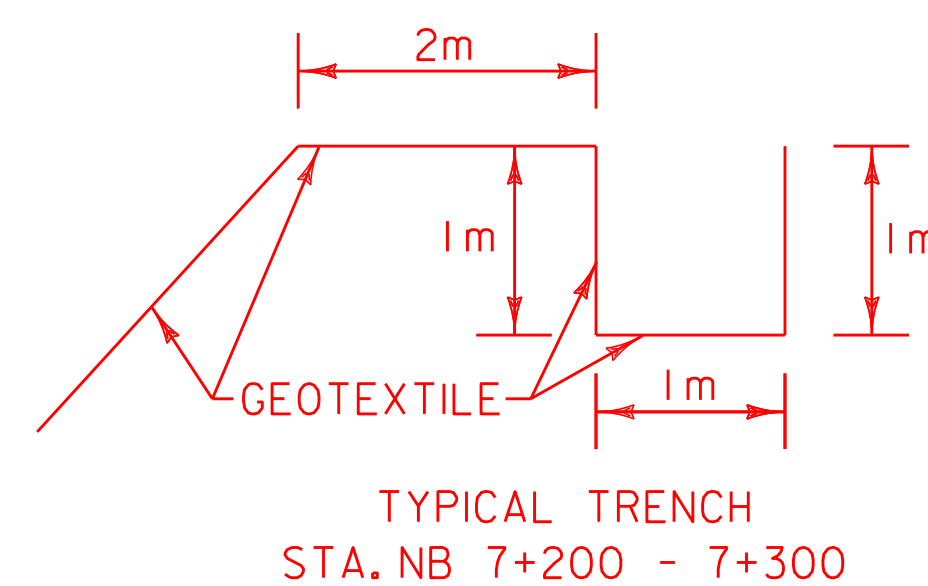
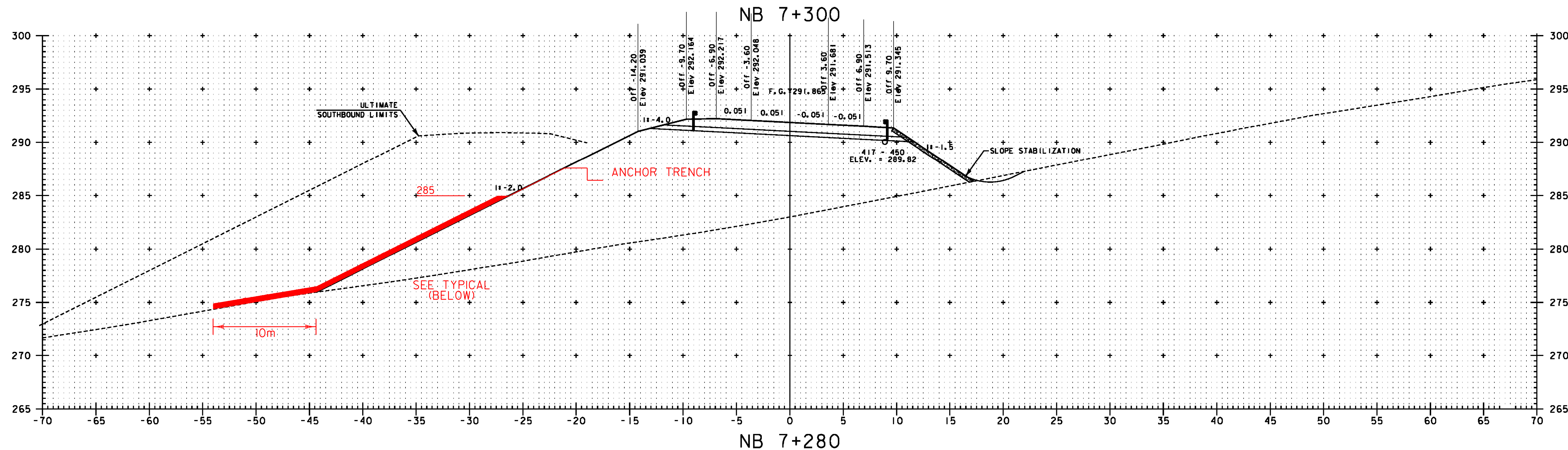
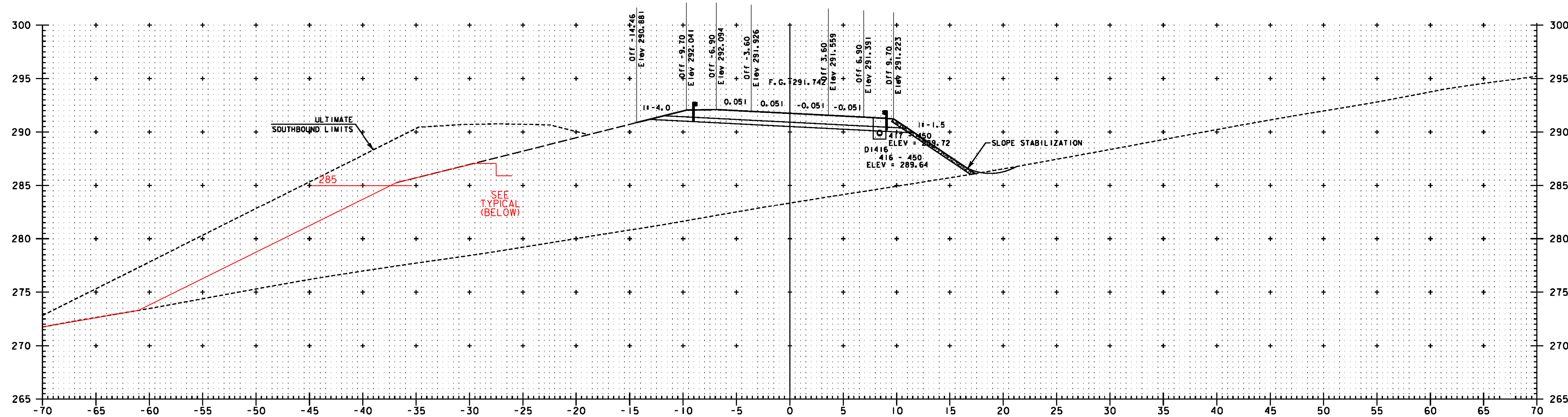


**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: AC NH 019-(52)  
 FILE NAME: ...plot.files\zd307c2xs.nb.prf PLOT DATE: 5/16/2010  
 DESIGN SUPERVISOR: GREG EDWARDS DRAWN BY: STANTEC  
 DESIGNED BY: MARC FOISY CHECKED BY: GARY SANTY  
 NB MAINLINE CROSS SECTIONS NBX-22 SHEET 215 OF 267

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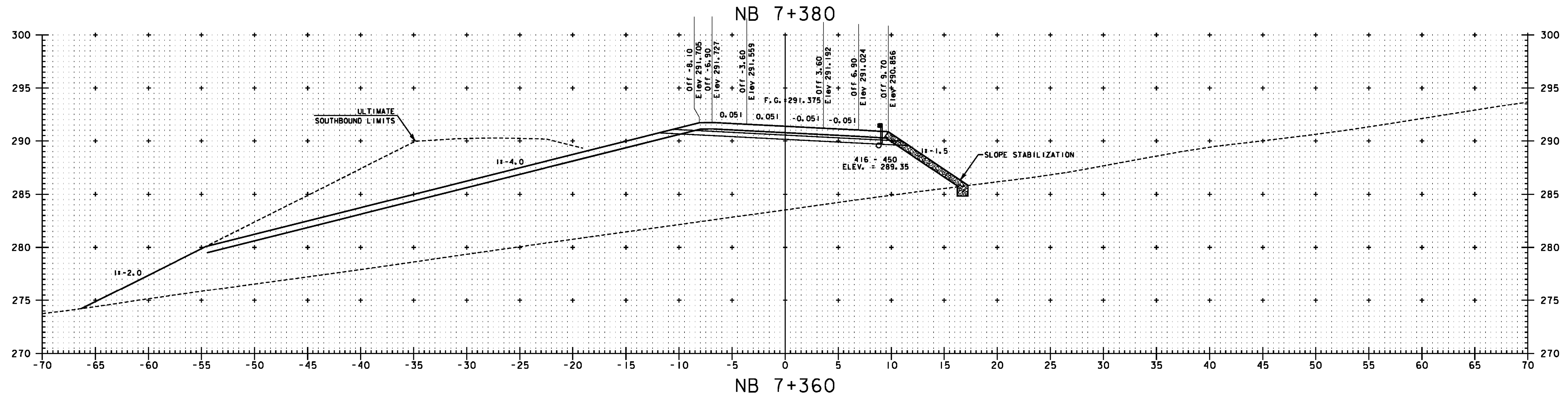
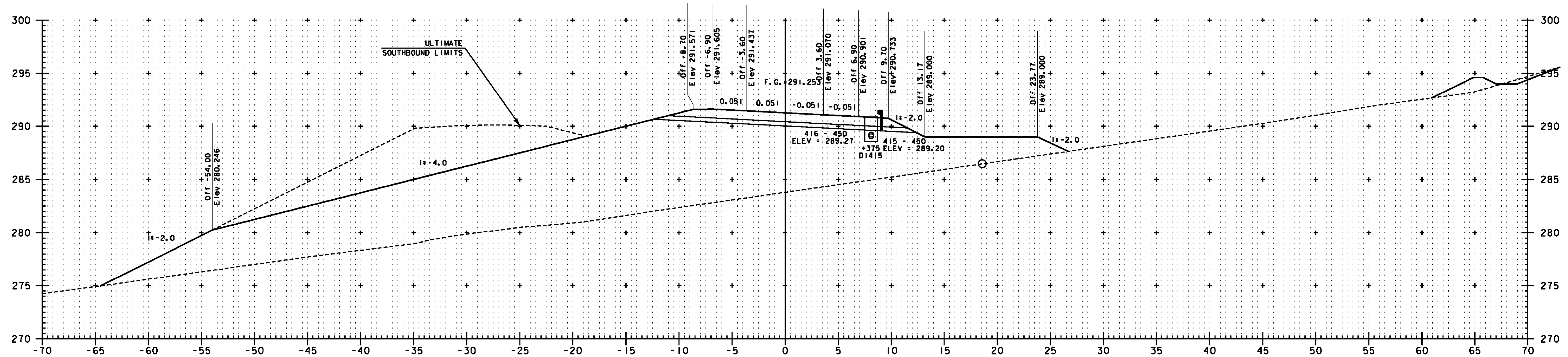


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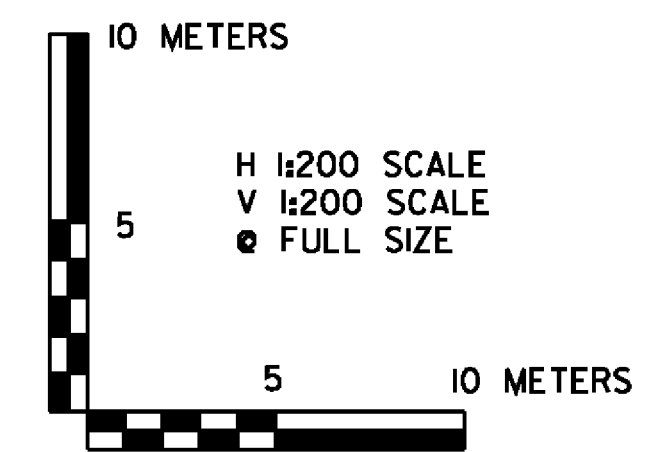
**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME:	BENNINGTON	PLLOT DATE:	5/16/2011
PROJECT NUMBER:	AC NH 019-(152)	DRAWN BY:	STANTEC
FILE NAME:	...plot_files\zd307c2xs_nb.prf	CHECKED BY:	GARY SANTY
DESIGNED BY:	MARC FOISY	SHEET	216 OF 267
NB MAINLINE CROSS SECTIONS NBX-23			



**NOTE:**  
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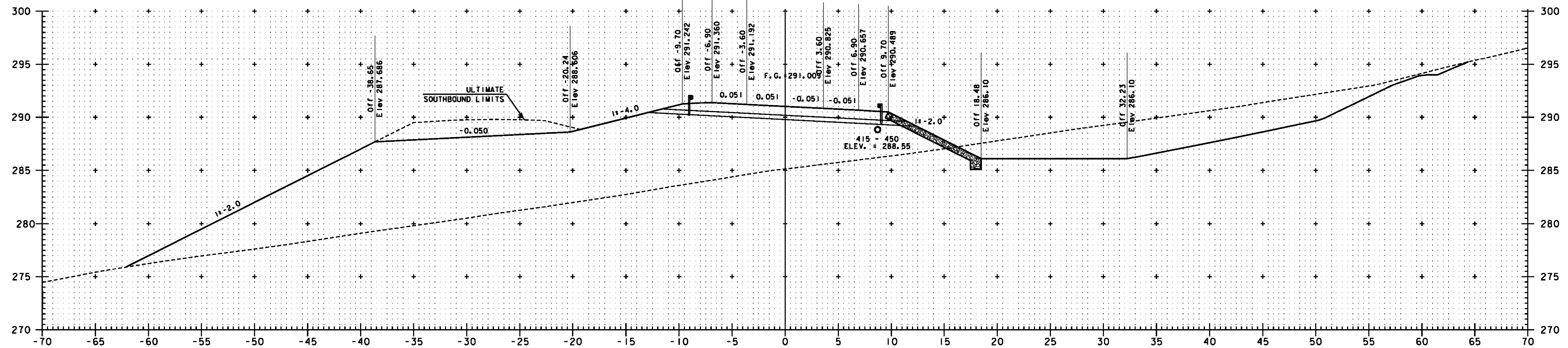


**VERMONT AGENCY OF TRANSPORTATION**

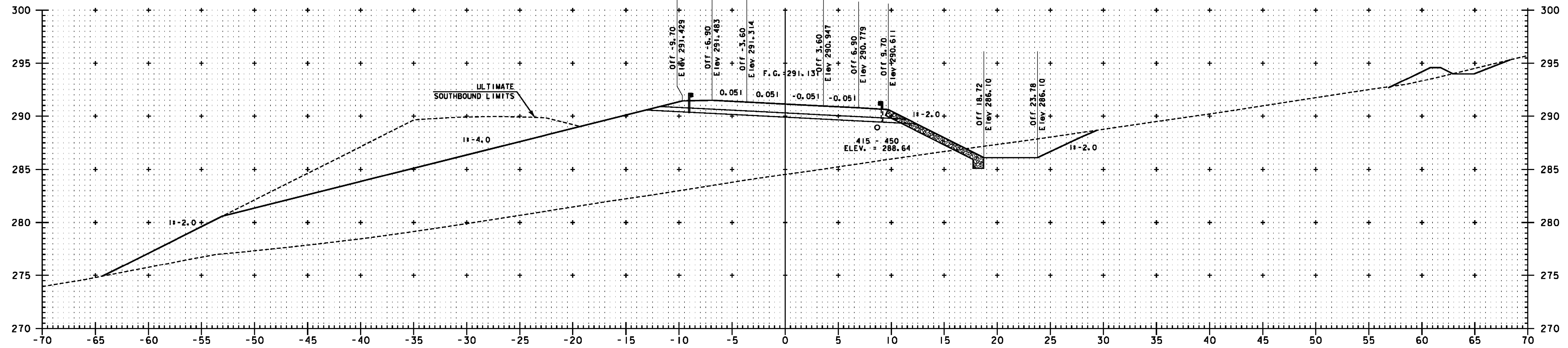


PROJECT NAME:	BENNINGTON	FILE NAME:	...plot_files\zd307c2xs_nb.prf	PLOT DATE:	5/16/2011
PROJECT NUMBER:	AC NH 019-(152)	DESIGN SUPERVISOR:	GREG EDWARDS	DRAWN BY:	STANTEC
		DESIGNED BY:	MARC FOISY	CHECKED BY:	GARY SANTY
		<b>NB MAINLINE CROSS SECTIONS NBX-25</b>		SHEET	218 OF 267

V:\953\active\9530002\transportation\drawing\corridor\cct-2\plot\_files\zd307c2xs\_nb.prf

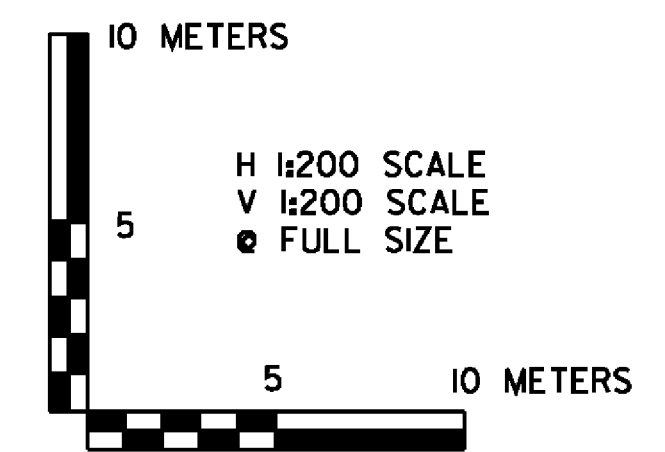


NB 7+420



NB 7+400

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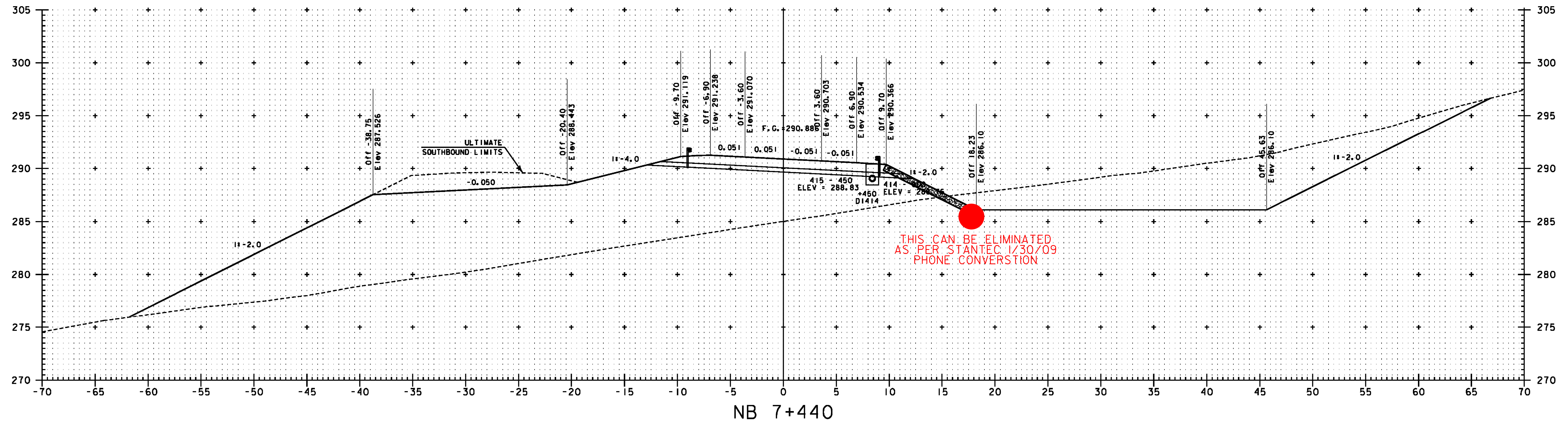
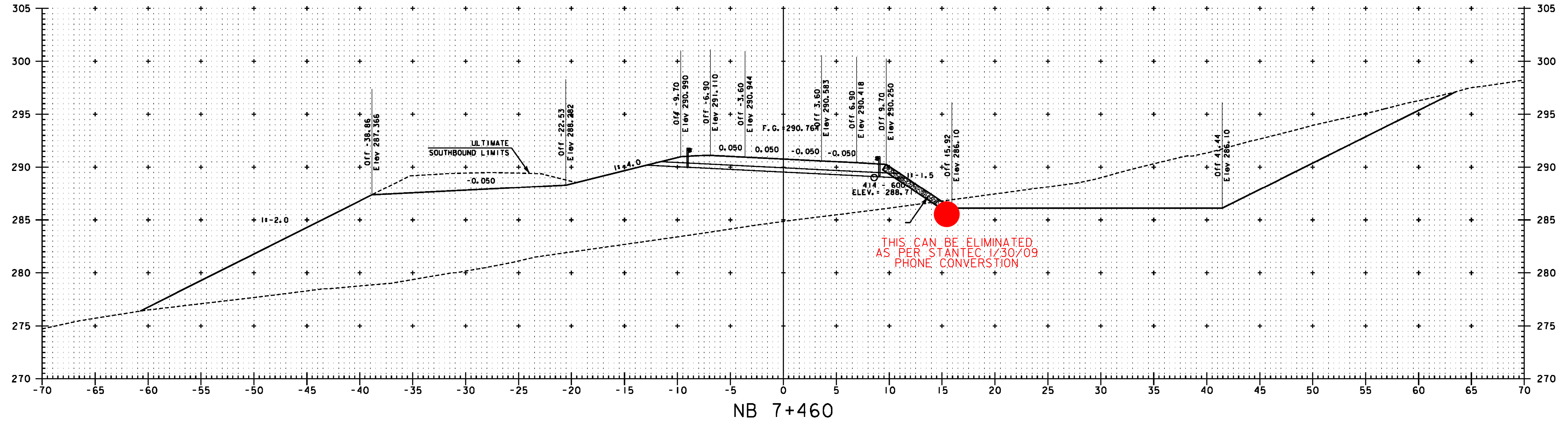


**VERMONT AGENCY OF TRANSPORTATION**

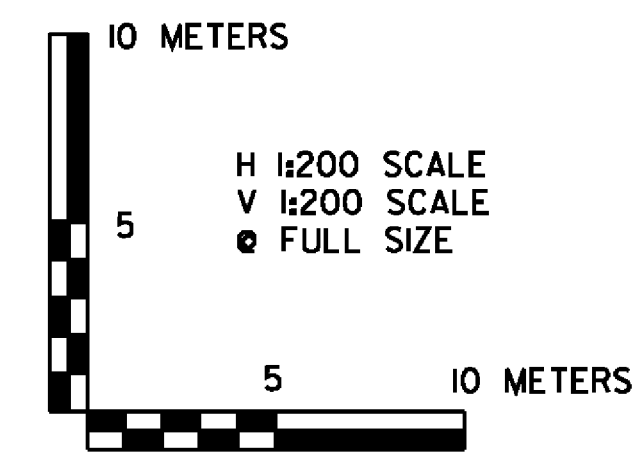


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PROJECT NUMBER:	AC NH 019-(152)	DRAWN BY:	STANTEC
FILE NAME:	...plot_files\zd307c2xs.nb.ptf	DESIGNED BY:	MARC FOISY
DESIGNED BY:	MARC FOISY	CHECKED BY:	GARY SANTY
NB MAINLINE CROSS SECTIONS NBX-26		SHEET 219 OF 267	

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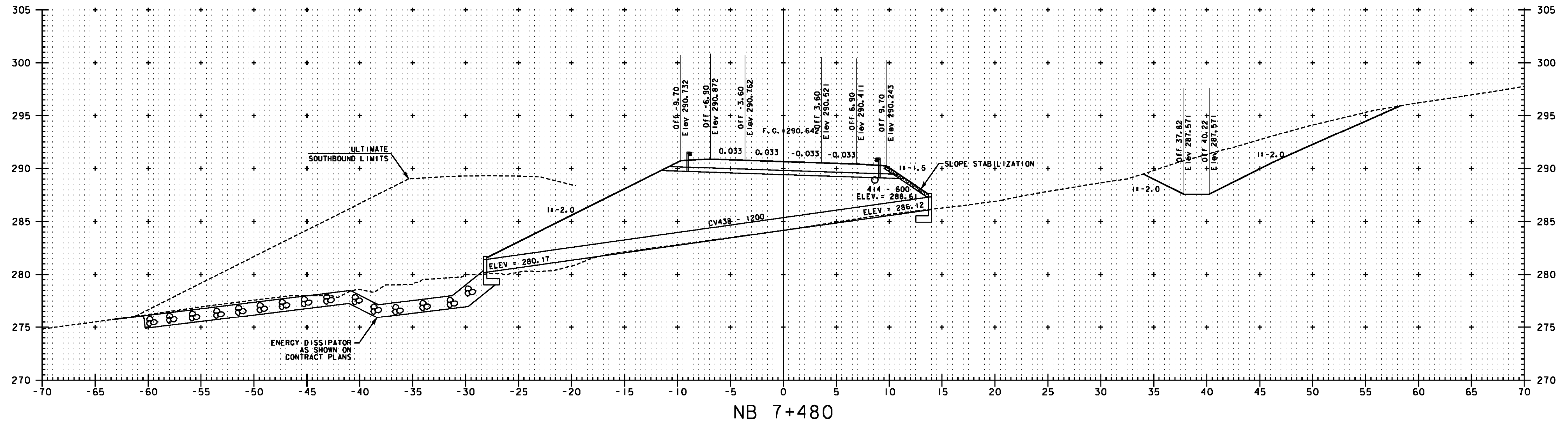
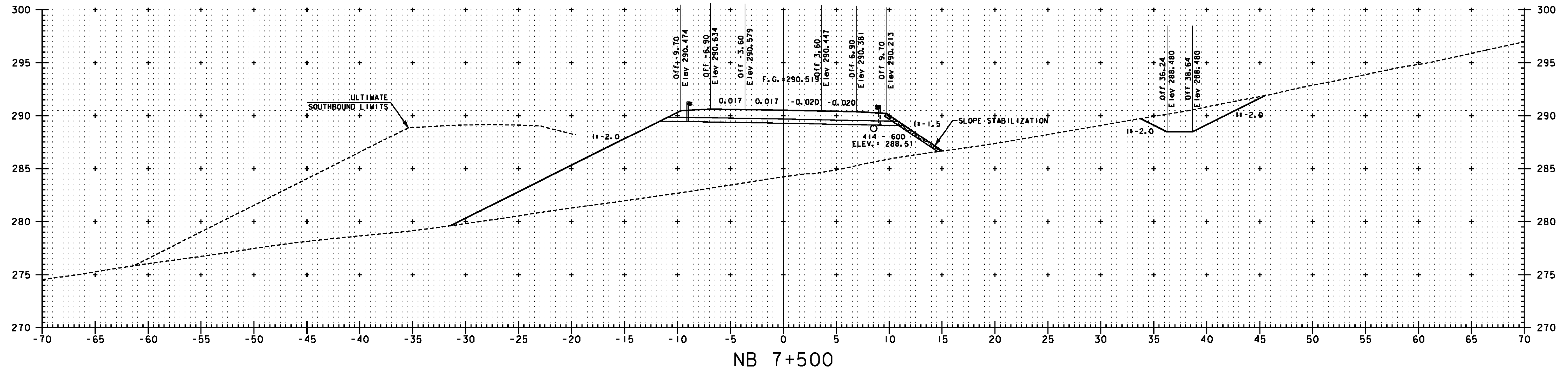


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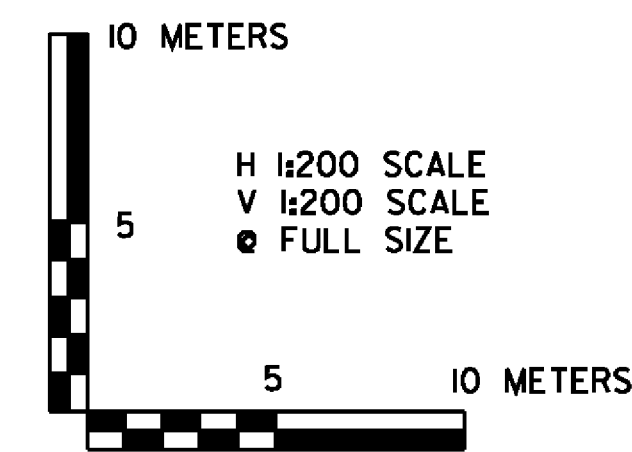


<b>VERMONT AGENCY OF TRANSPORTATION</b>	
	PROJECT NAME: BENNINGTON
	PROJECT NUMBER: AC NH 019-1(52)
FILE NAME: ...plot_files\zd307c2xs_nb.prf	PLOT DATE: 5/16/2011
DESIGN SUPERVISOR: GREG EDWARDS	DRAWN BY: STANTEC
DESIGNED BY: MARC FOISY	CHECKED BY: GARY SANTY
<b>NB MAINLINE CROSS SECTIONS NBX-27</b>	
SHEET 220 OF 267	

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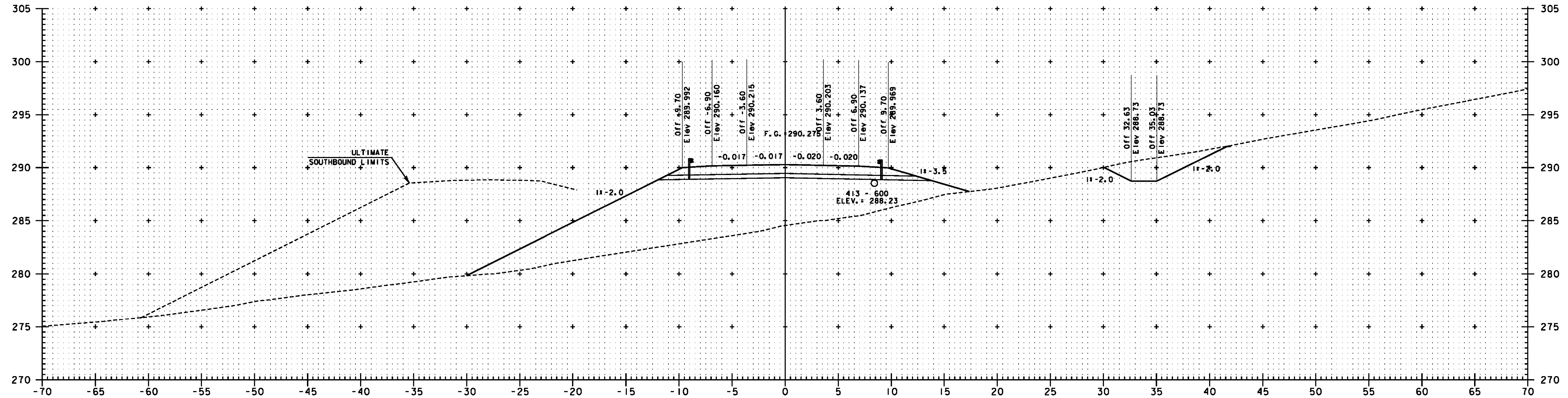


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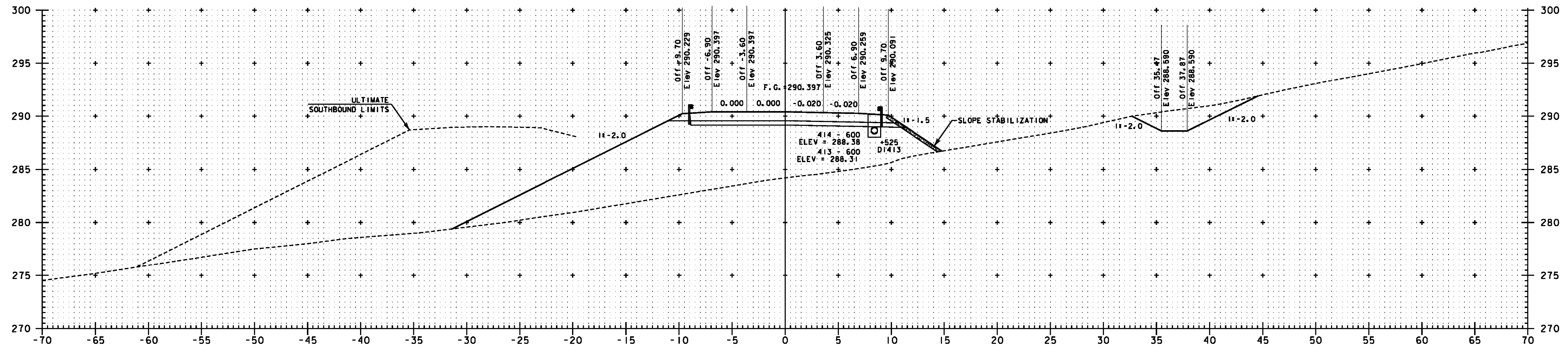


<b>VERMONT AGENCY OF TRANSPORTATION</b>	
	PROJECT NAME: BENNINGTON PROJECT NUMBER: AC NH 019-1(52)
FILE NAME: ...plot_files\zd307c2xs.nb.prf DESIGN SUPERVISOR: GREG EDWARDS DESIGNED BY: MARC FOISY	PLOT DATE: 5/16/2011 DRAWN BY: STANTEC CHECKED BY: GARY SANTY NB MAINLINE CROSS SECTIONS NBX-28 SHEET 221 OF 267

V:\953\active\9530002\transportation\drawing\contract\2\10101\_files\zd307c2xs.nb.prf

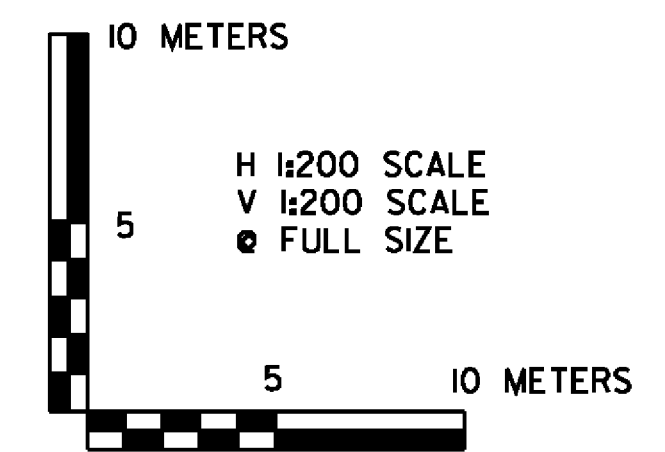


NB 7+540



NB 7+520

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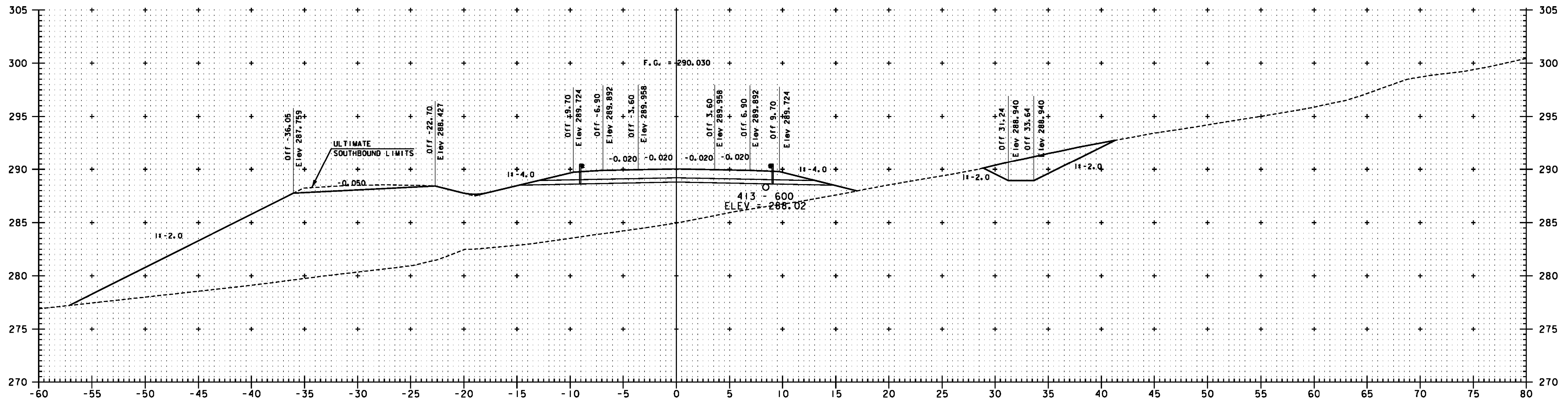


**VERMONT AGENCY OF TRANSPORTATION**

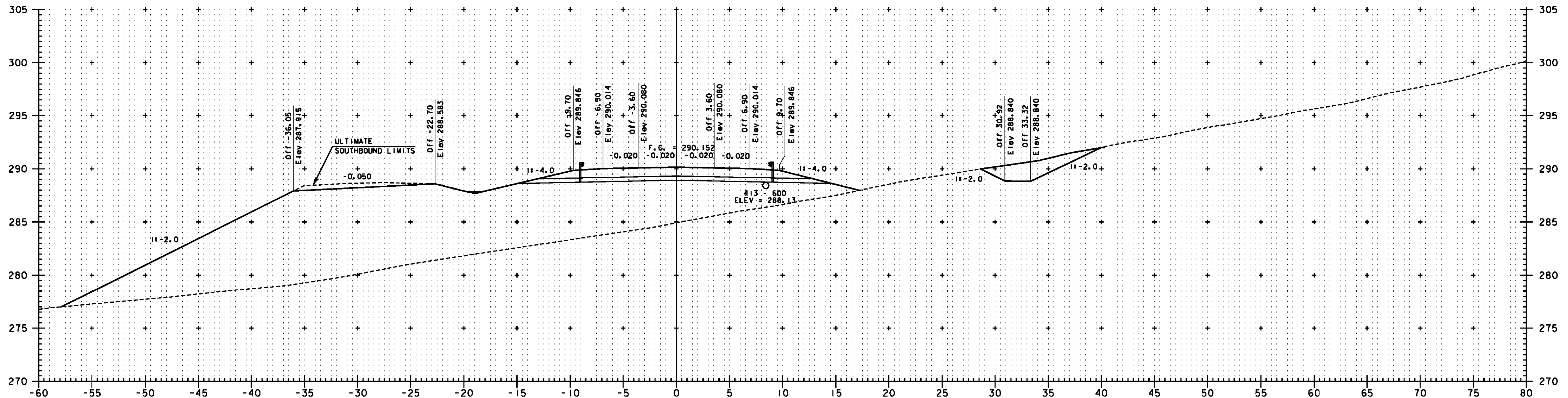


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PROJECT NUMBER:	AC NH 019-(52)	DESIGN SUPERVISOR:	GREG EDWARDS	DRAWN BY:	STANTEC
		DESIGNED BY:	MARC FOISY	CHECKED BY:	GARY SANTY
			<b>NB MAINLINE CROSS SECTIONS NBX-29</b>	SHEET	222 OF 267

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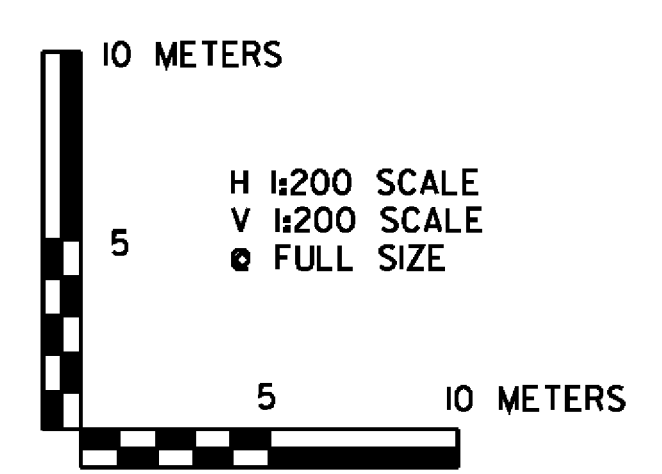


NB 7+580



NB 7+560

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**VERMONT AGENCY OF TRANSPORTATION**

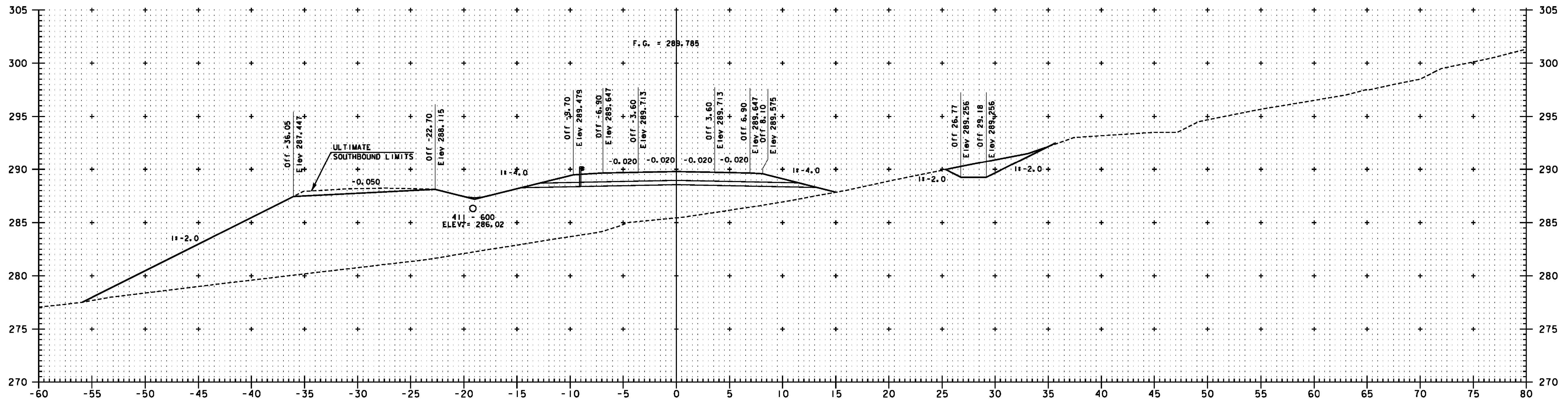
PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: AC NH 019-1(52)

FILE NAME: ...plot\_files\zd307c2xs.nb.prf  
 DESIGN SUPERVISOR: GREG EDWARDS  
 DESIGNED BY: MARC FOISY

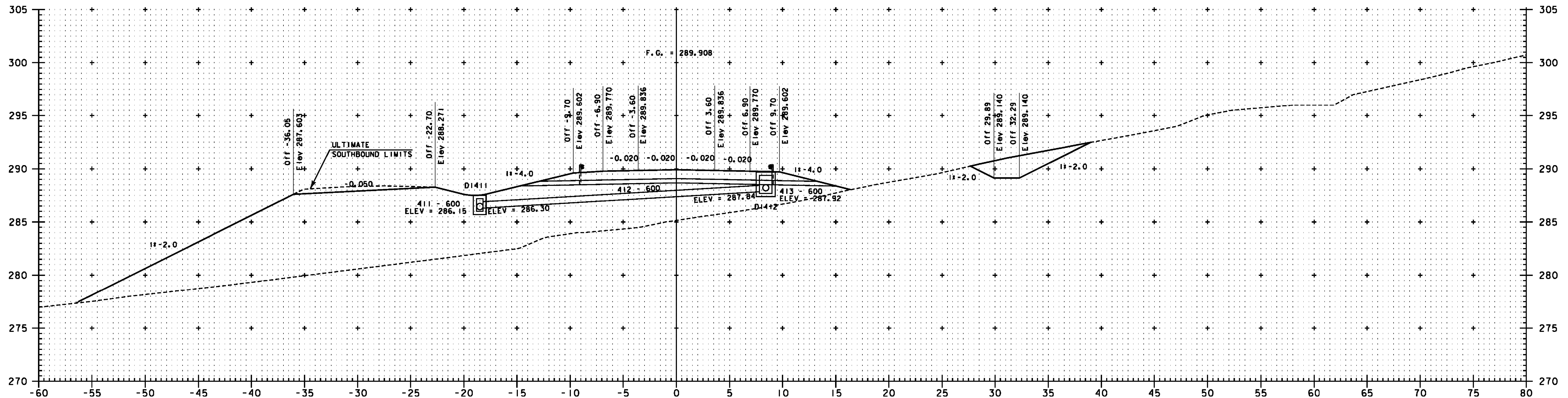
PLOT DATE: 5/16/2011  
 DRAWN BY: STANTEC  
 CHECKED BY: GARY SANTY

**NB MAINLINE CROSS SECTIONS NBX-30** SHEET 223 OF 267

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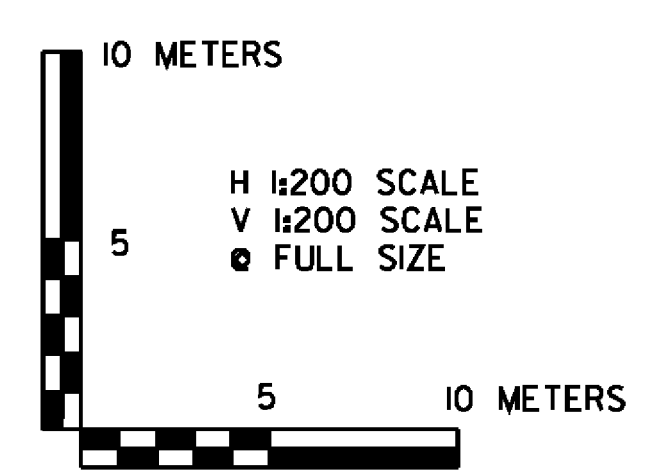


NB 7+620



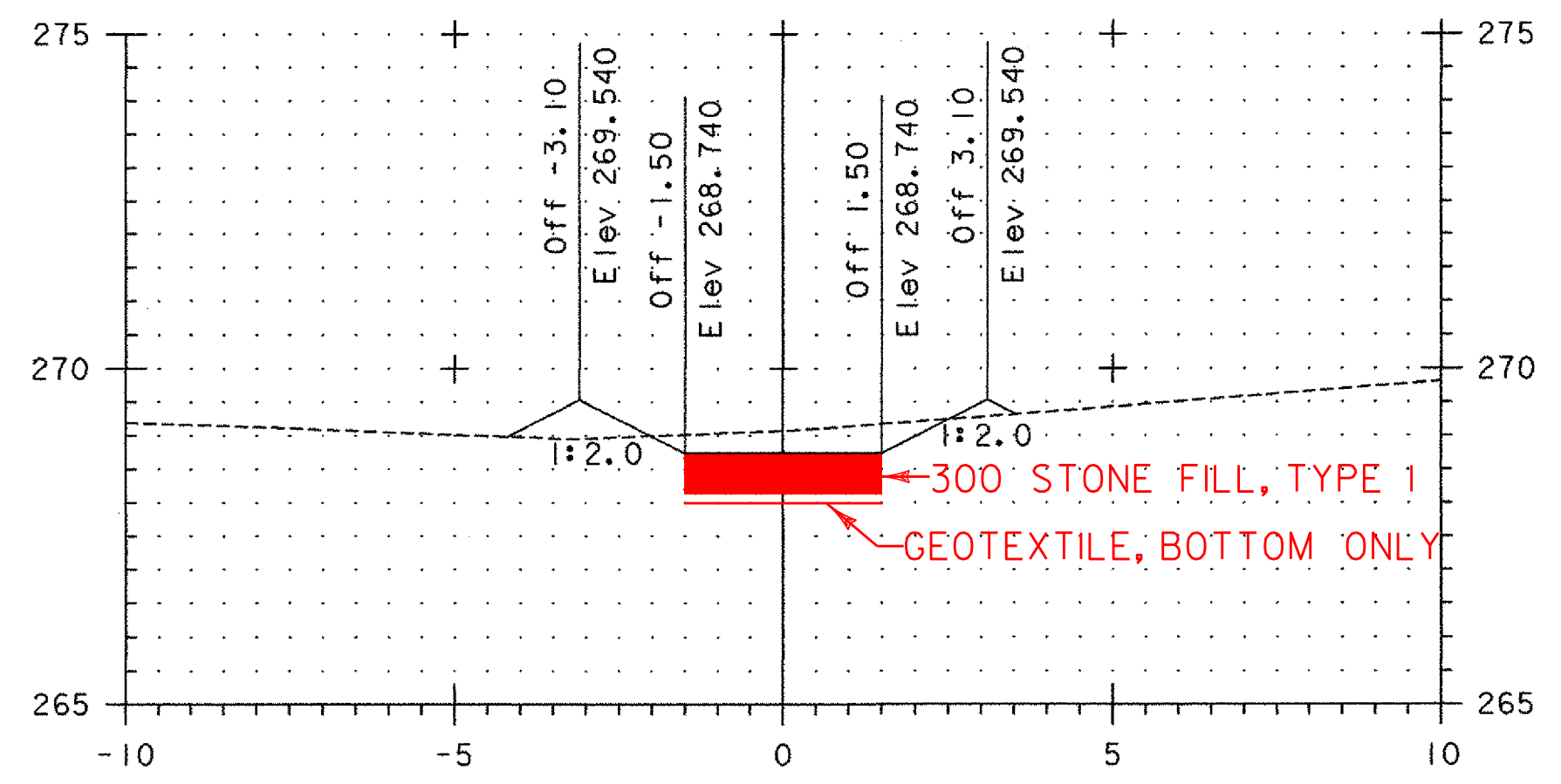
NB 7+600

**NOTE:**  
 ELEVATIONS SHOWN ARE FOR THE ULTIMATE FINISHED GRADE.  
 THE TOP 50 PAVEMENT COURSE (TYPE IIIS) WILL NOT BE  
 CONSTRUCTED AS PART OF THIS CONTRACT. THIS CONTRACT  
 ONLY INCLUDES 100 OF TYPE IIS AND 80 OF TYPE IIS  
 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (ITEM 490.30).  
 PLEASE REFER TO THE ROADWAY TYPICAL SECTIONS FOR DETAILS.

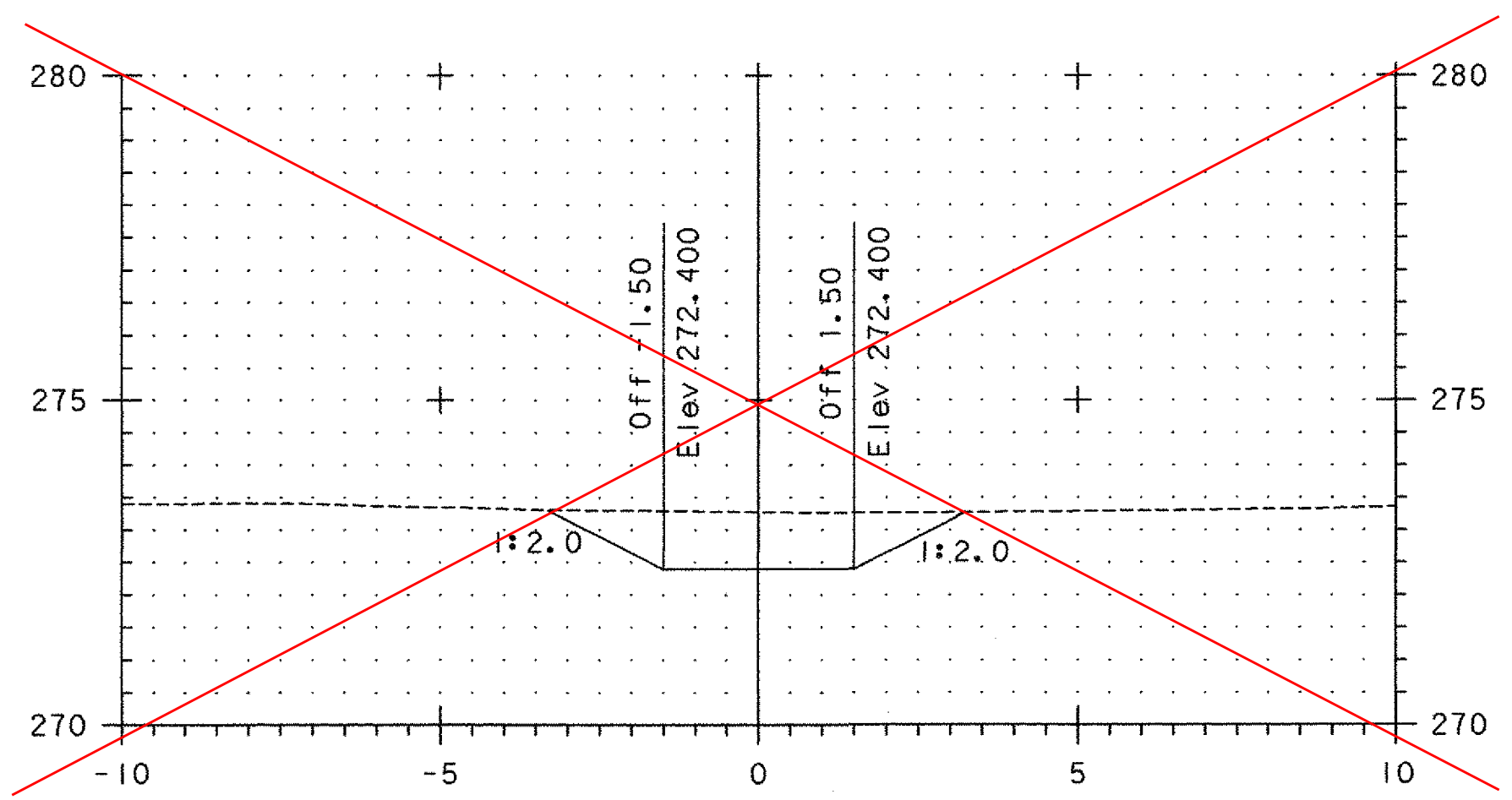


<b>VERMONT AGENCY OF TRANSPORTATION</b>	
PROJECT NAME: BENNINGTON	PROJECT NUMBER: AC NH 019-1(52)
FILE NAME: ...\plot-files\zd307c2xs.nb.ptf	PLOT DATE: 5/16/2011
DESIGN SUPERVISOR: GREG EDWARDS	DRAWN BY: STANTEC
DESIGNED BY: MARC FOISY	CHECKED BY: GARY SANTY
<b>NB MAINLINE CROSS SECTIONS NBX-31</b>	
SHEET 224 OF 267	

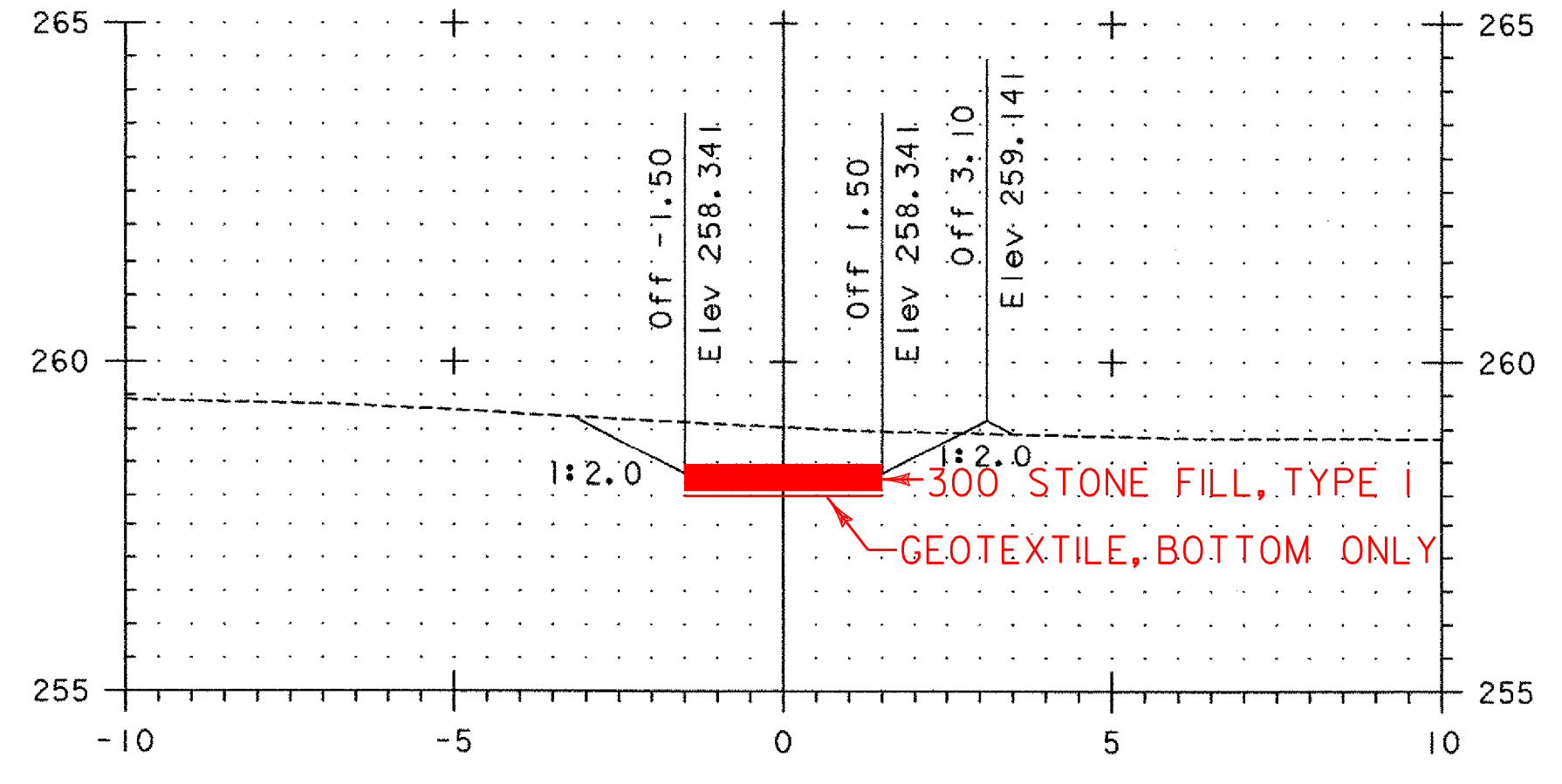
V:\953\active\9530002\transportation\drawing\coord\cct-2\plot\_files\zd307c2xs.nb.ptf



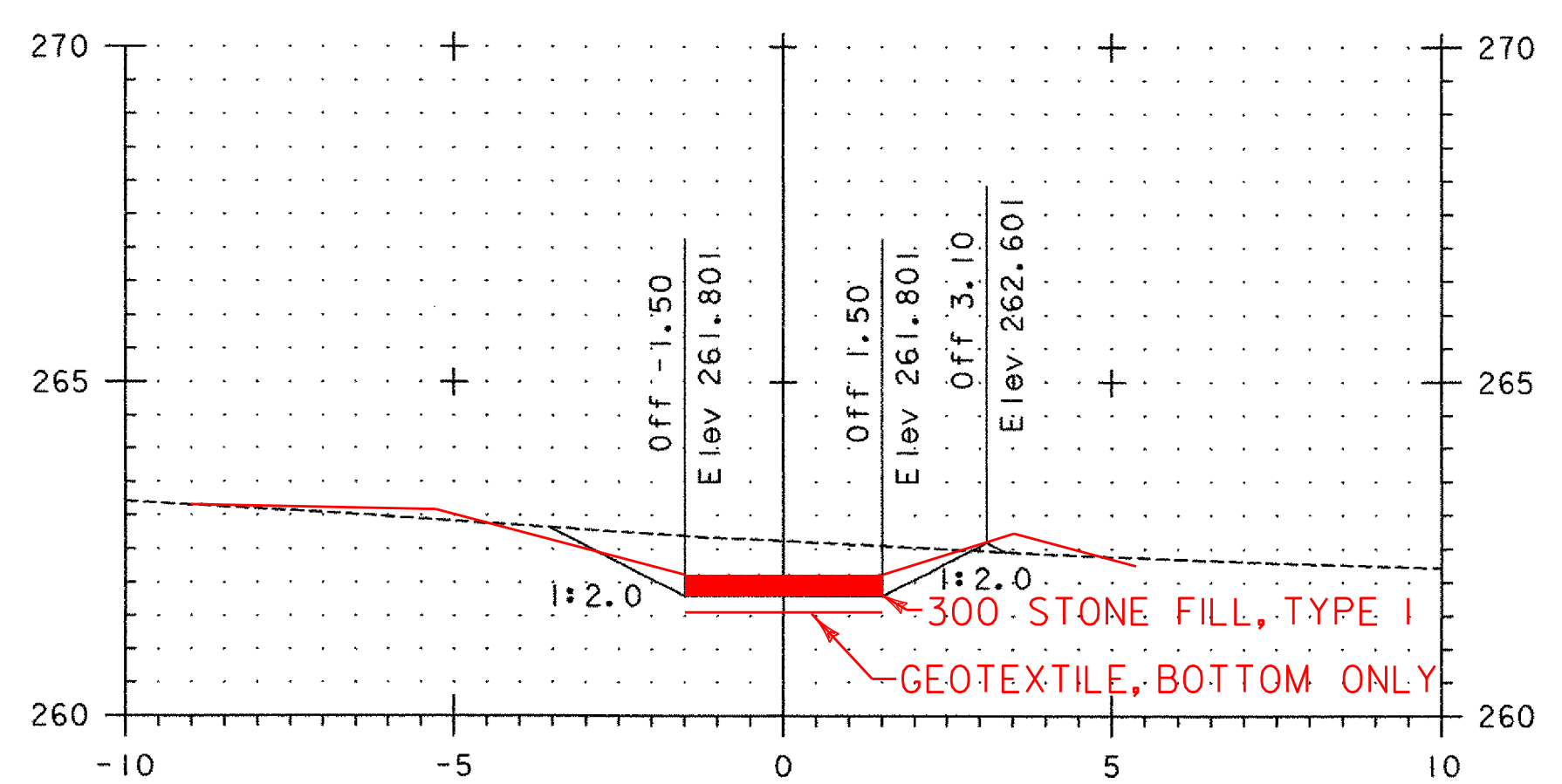
SW 10+020



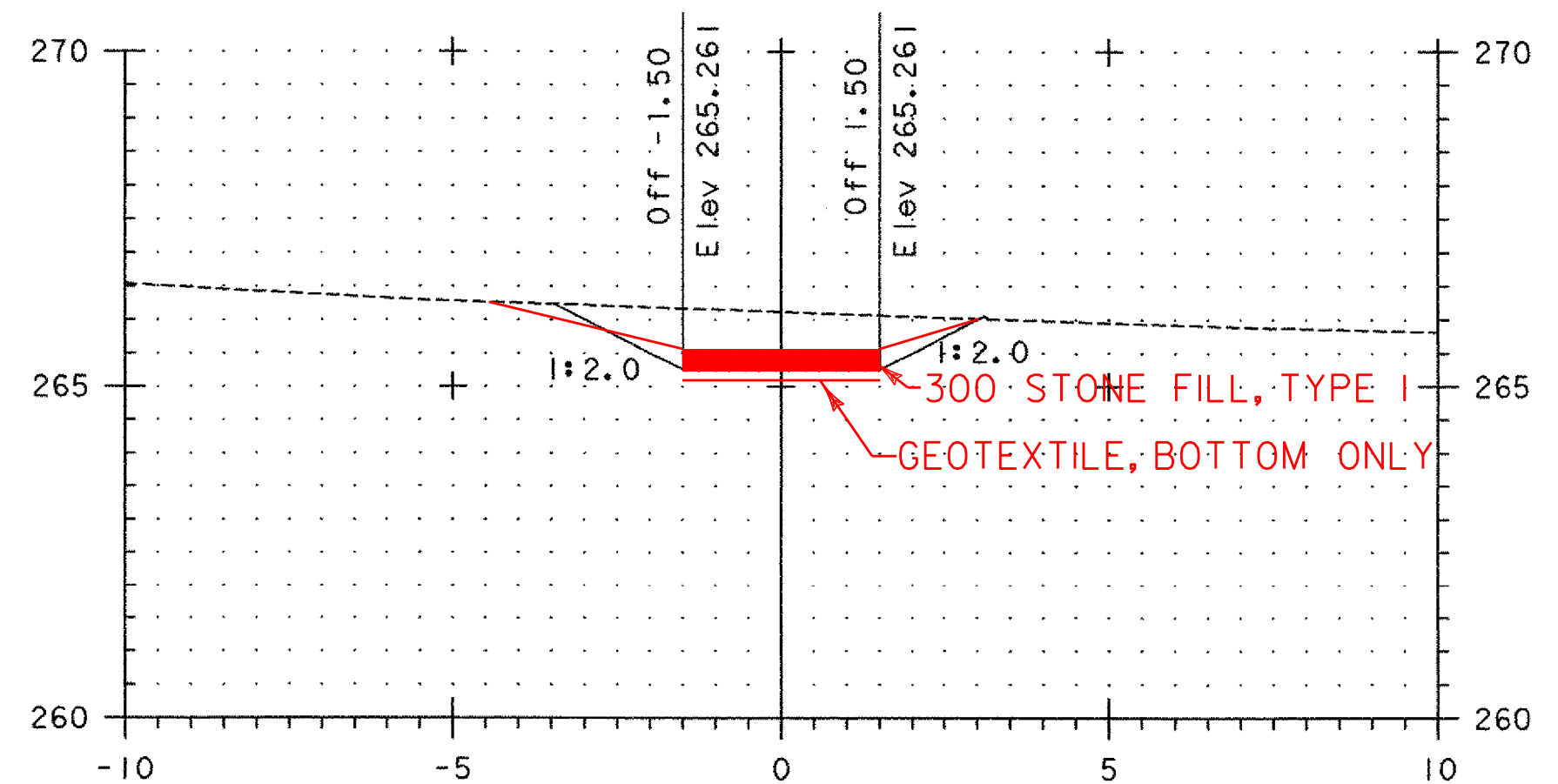
SW 10+000  
 SW 1+000 TO SW 1+030  
 IS NOT SWALE  
 IT IS STONE OUTLET  
 PROTECTION FOR CV439



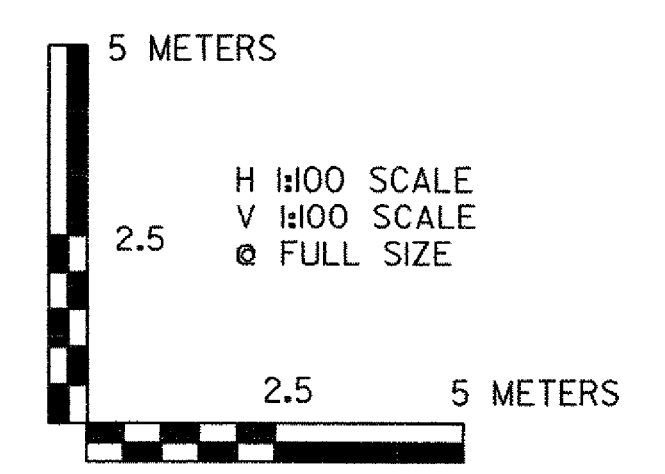
SW 10+080



SW 10+060

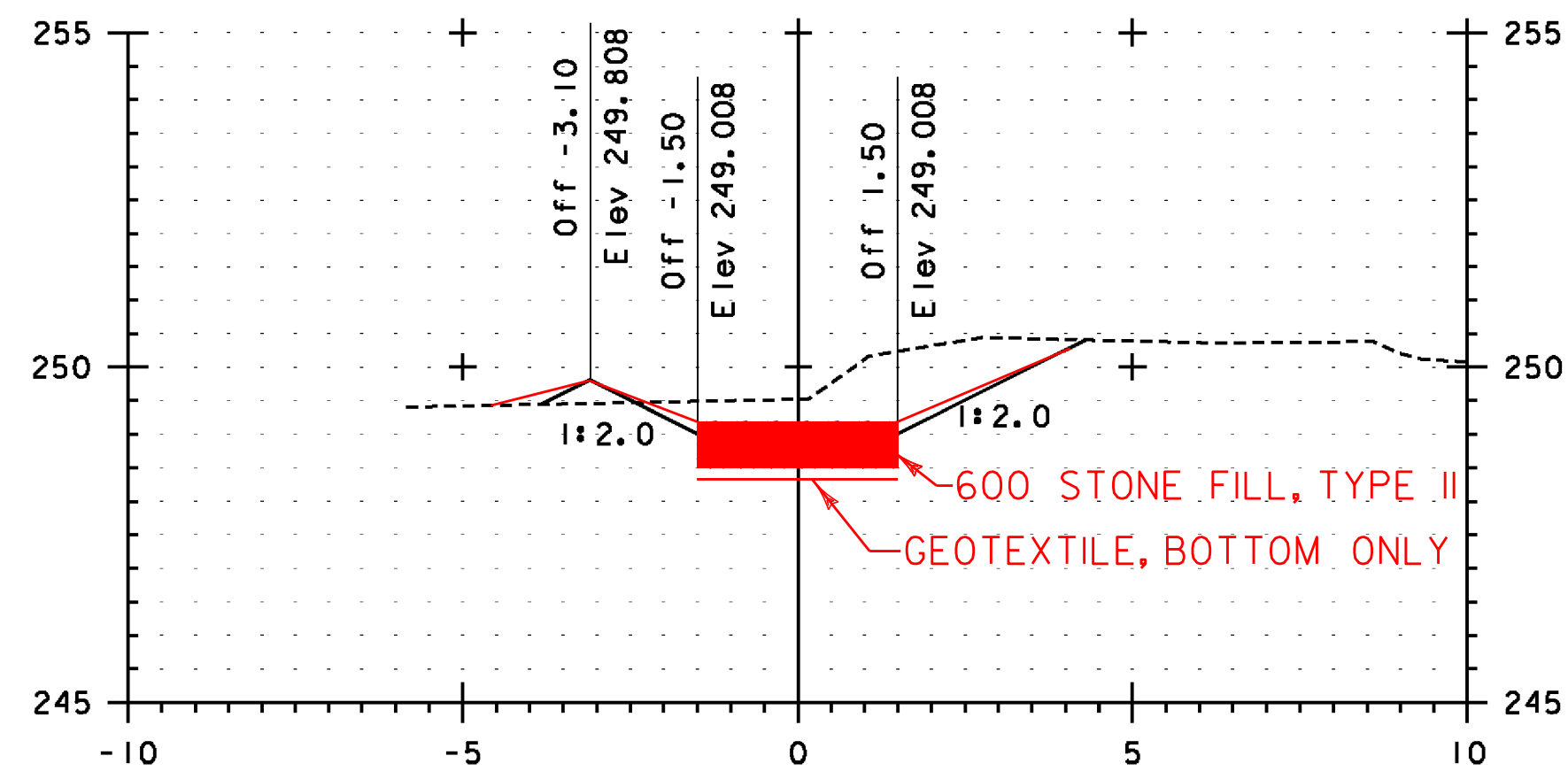


SW 10+040

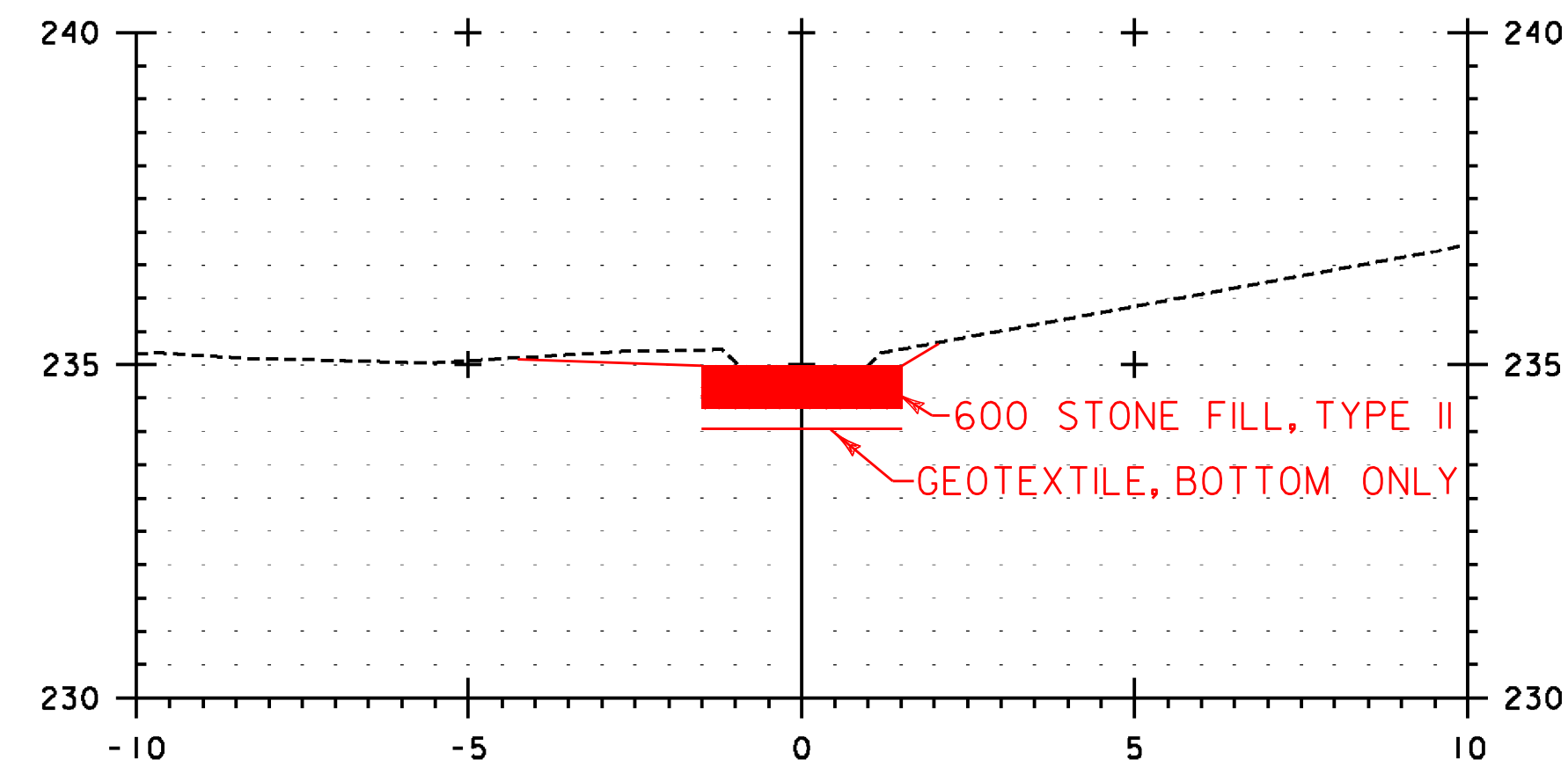


<b>VERMONT AGENCY OF TRANSPORTATION</b>	
	PROJECT NAME: BENNINGTON
	PROJECT NUMBER: AC NH 019-1(K52)
FILE NAME: ...vd307c2xs-prouty.ptf	PLOT DATE: 12/20/2007
DESIGN SUPERVISOR: GREG EDWARDS	DRAWN BY: STANTEC
DESIGNED BY: MARC FOISY	CHECKED BY: GARY SANTY
<b>PROUTY SWALE CROSS SECTIONS PSX-1</b>	SHEET 266 OF 267

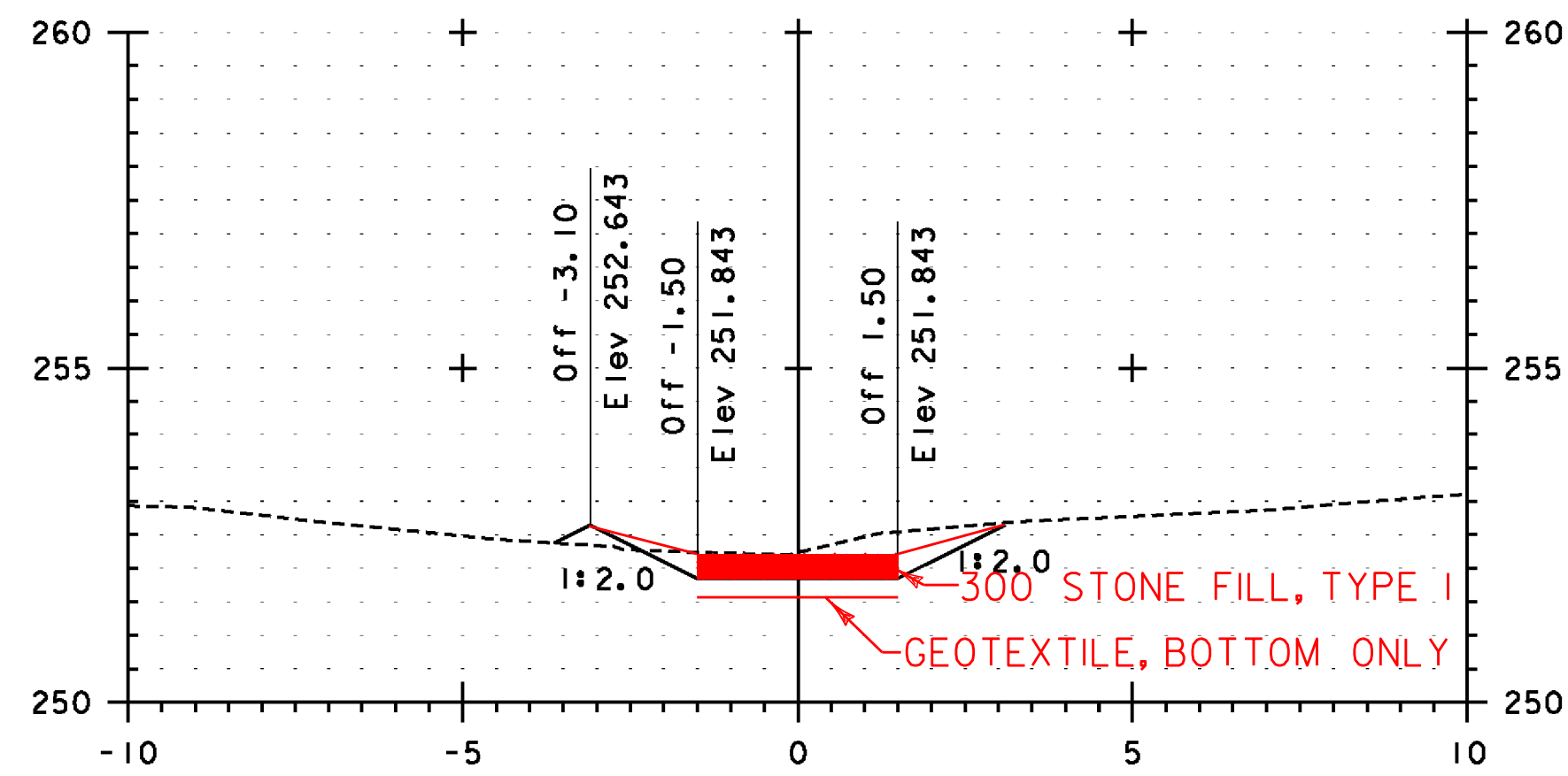
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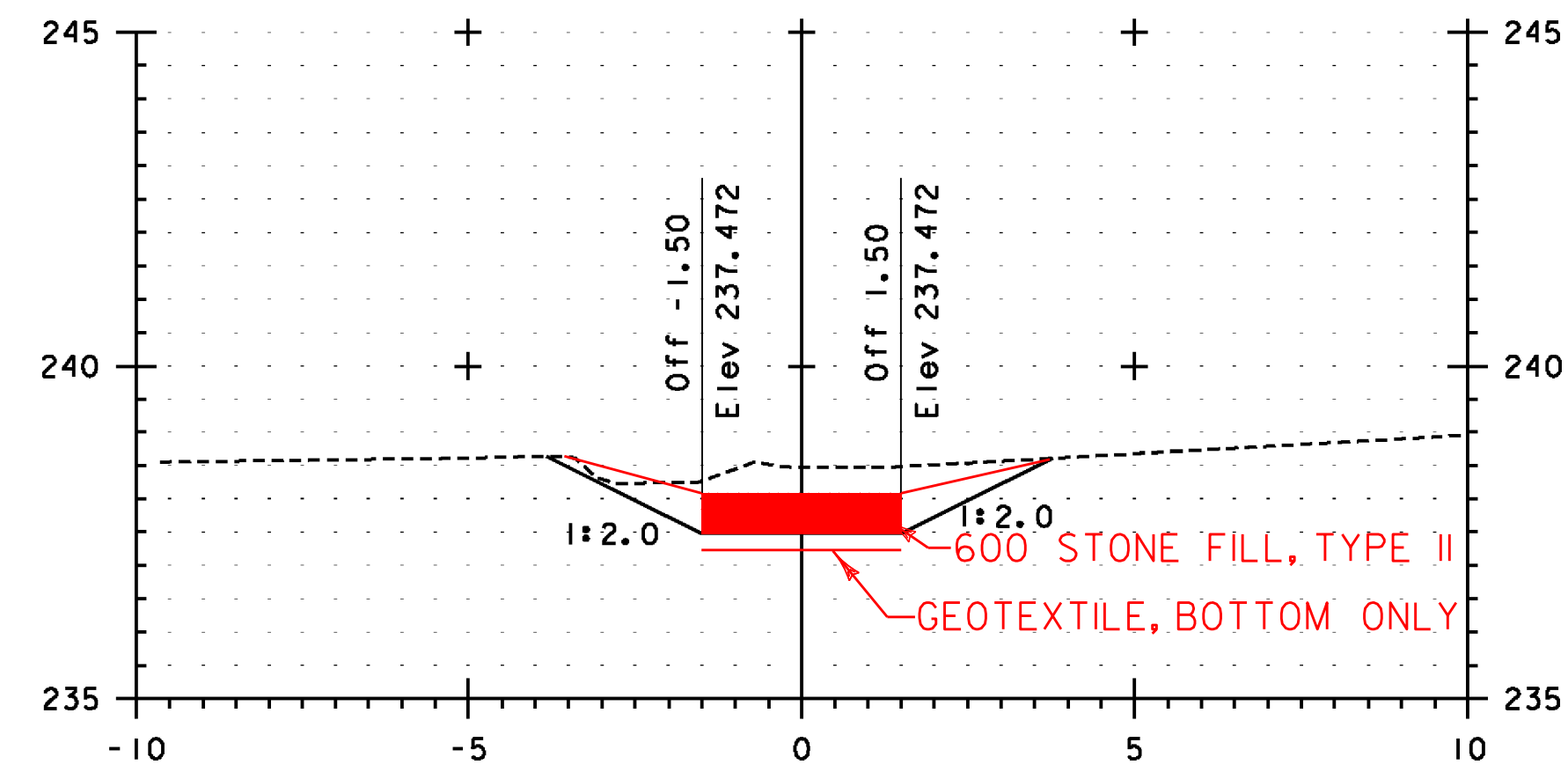
SW 10+140



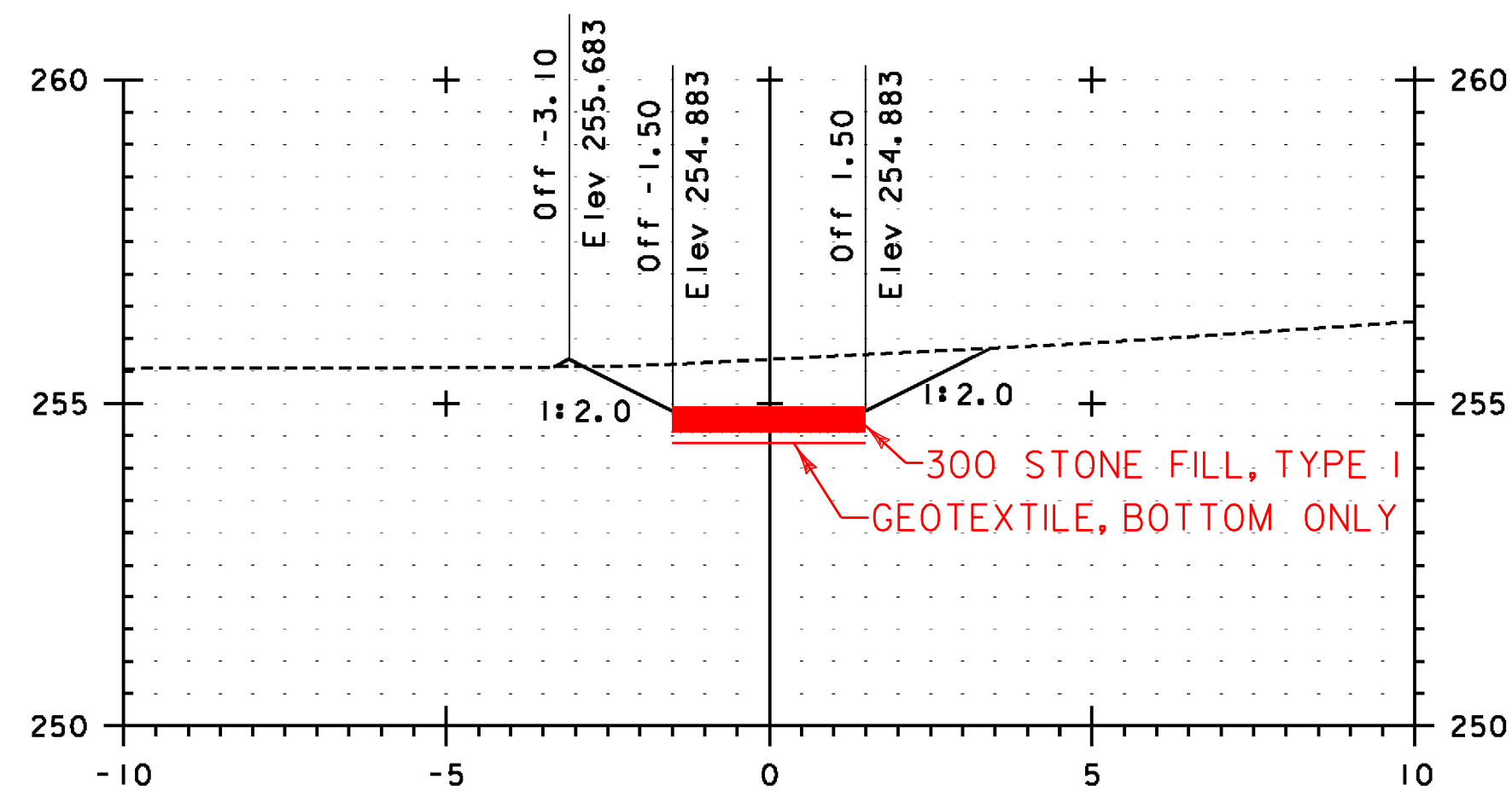
SW 10+200



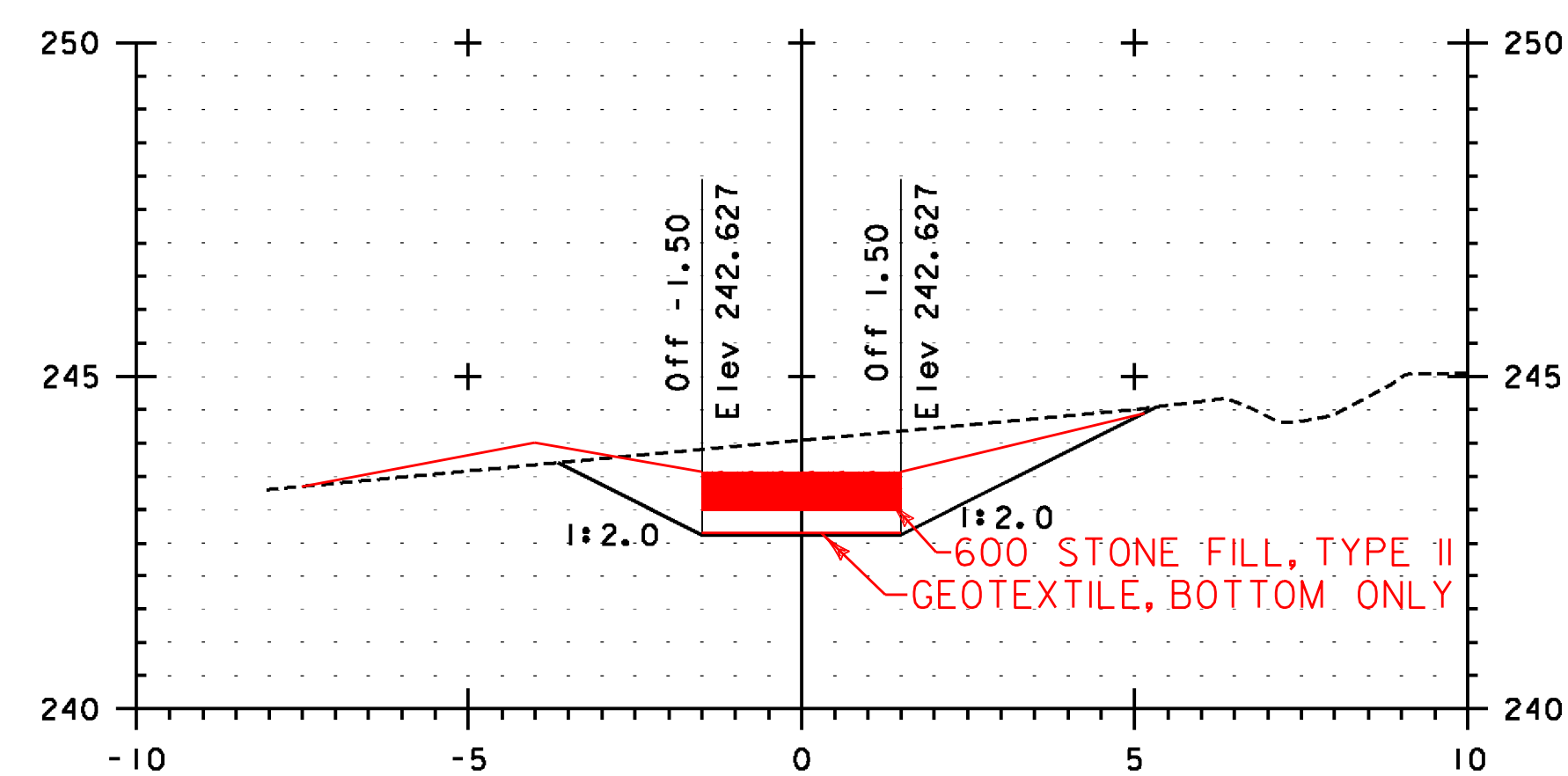
SW 10+120



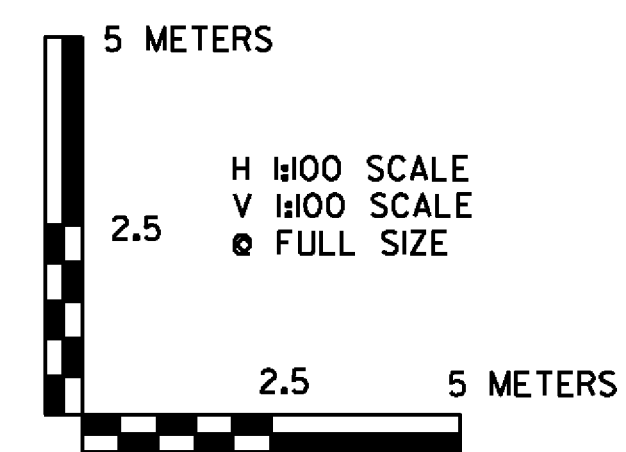
SW 10+180



SW 10+100



SW 10+160



<b>VERMONT AGENCY OF TRANSPORTATION</b>	
	PROJECT NAME: BENNINGTON
	PROJECT NUMBER: AC NH 019-1(52)
FILE NAME: ...zd307c2xs.prouty.ptf	PLOT DATE: 5/18/2011
DESIGN SUPERVISOR: GREG EDWARDS	DRAWN BY: STANTEC
DESIGNED BY: MARC FOISY	CHECKED BY: GARY SANTY
<b>PROUTY SWALE CROSS SECTIONS PSX-2</b>	SHEET 267 OF 267

V:\1953\cctive\19530002\transportation\drawing\contract\_2\plot\_files\zd307c2xs.prouty.ptf