

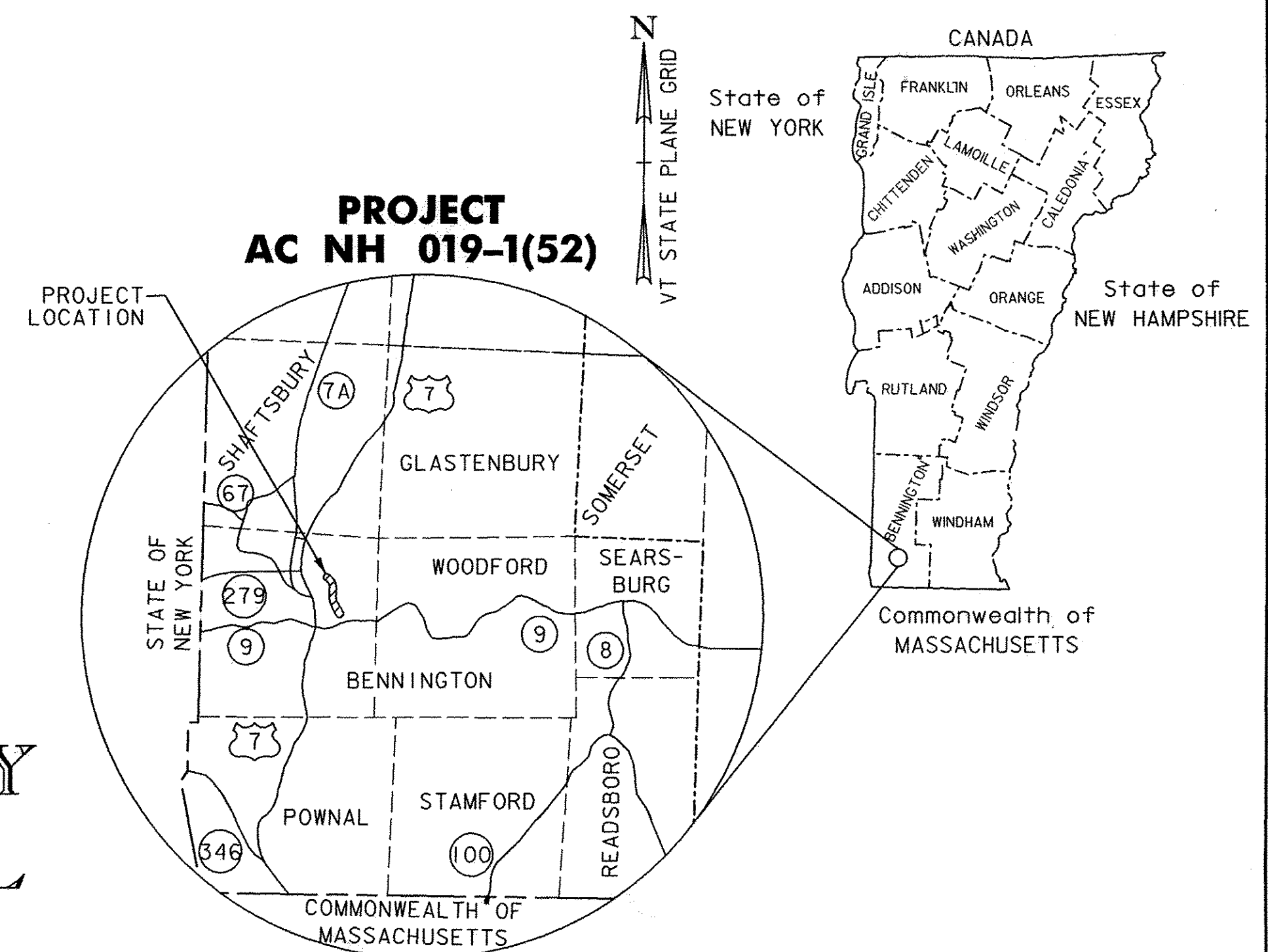
INDEX OF SHEETS
SEE SHEET 2

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.

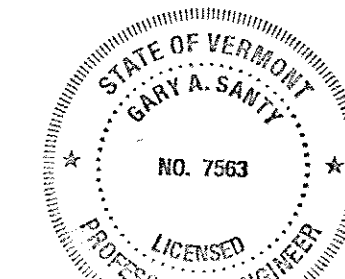
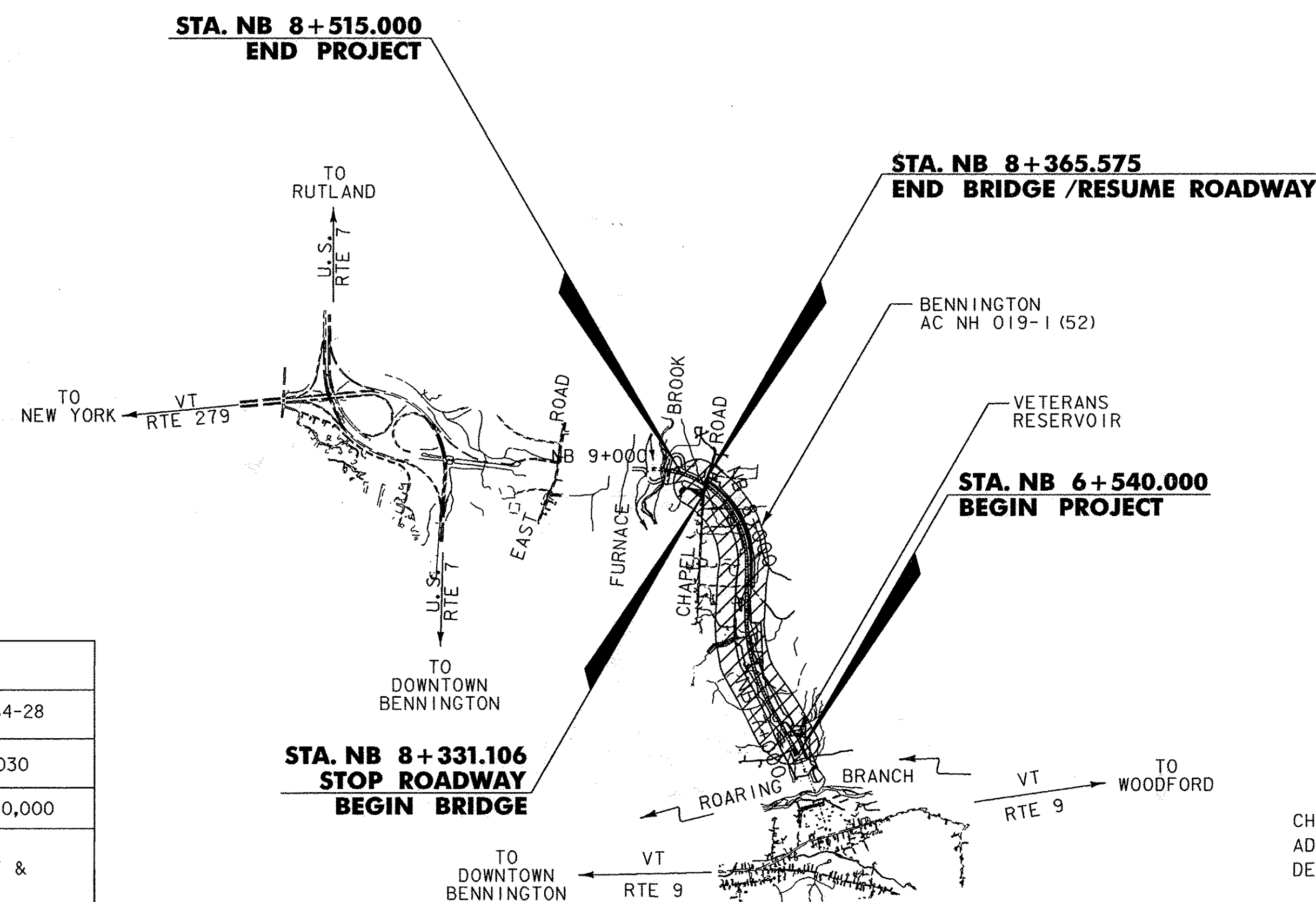
CONVENTIONAL SYMBOLS

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	
ARCHAEOLOGICAL	
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)

500 0 500 M
GRAPHIC SCALE
1:25,000 @ FULL SIZE



Gary A. Sanf
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.

Metric

UNLESS NOTED OTHERWISE

STATIONS ARE IN KILOMETERS
ELEVATIONS ARE IN METERS
DIMENSIONS ARE IN MILLIMETERS



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

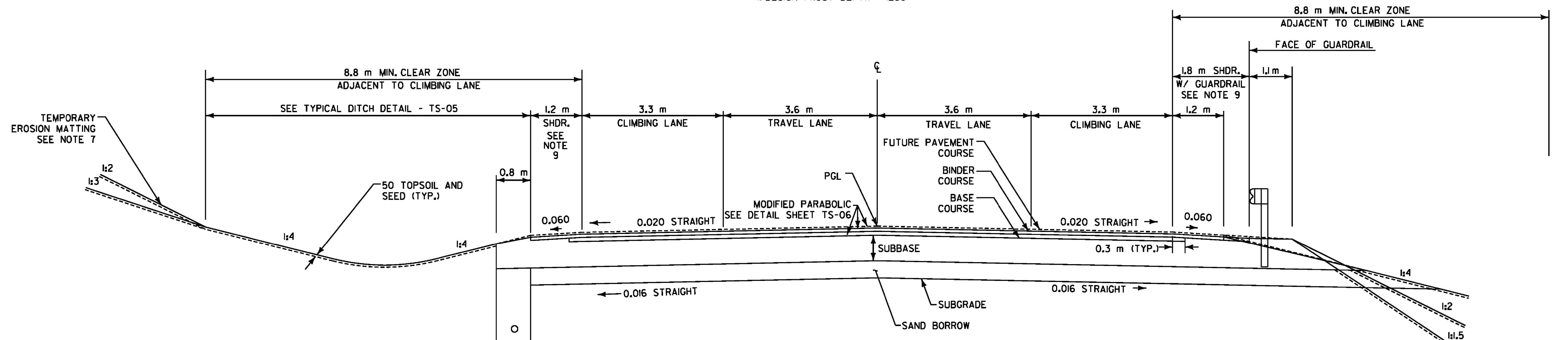
MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT COURSES (TOTAL DEPTH)	+/- 5
SUBBASE (TOTAL DEPTH)	+/- 30
SAND BORROW (TOTAL DEPTH)	+/- 30

TYPICAL SECTION - MAINLINE: WITH CLIMBING LANES

50	FUTURE PAVEMENT COURSE, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIIS)	NOT PART OF THIS CONTRACT
80	BINDER COURSE, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) PG 64-28	
100	BASE COURSE, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, (TYPE IS) PG 64-28	
600	SUBBASE OF DENSE GRADED CRUSHED STONE	
400	SAND BORROW	
SHOULDERS:		
50	FUTURE PAVEMENT COURSE, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIIS)	NOT PART OF THIS CONTRACT
80	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) PG 64-28	

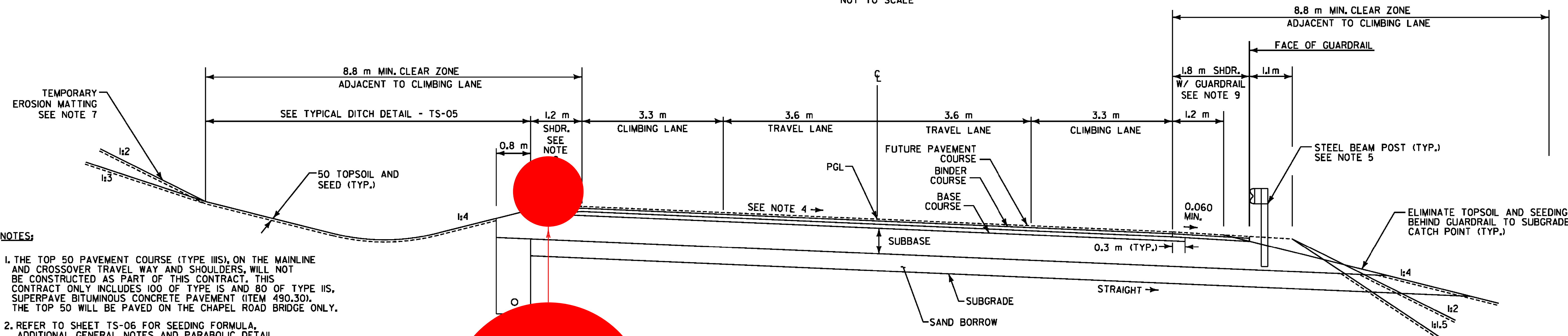
NOTE:

1) DESIGN FROST DEPTH - 1230



NORMAL SECTION W/ CLIMBING LANES

NOT TO SCALE



NOTES:

1. THE TOP 50 PAVEMENT COURSE (TYPE IIIS), ON THE MAINLINE AND CROSSOVER TRAVEL WAY AND SHOULDERS, WILL NOT BE CONSTRUCTED AS PART OF THIS CONTRACT. THIS CONTRACT ONLY INCLUDES 100 OF TYPE IS AND 80 OF TYPE IIS, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (ITEM 490.30). THE TOP 50 WILL BE PAVED ON THE CHAPEL ROAD BRIDGE ONLY.
2. REFER TO SHEET TS-06 FOR SEEDING FORMULA, ADDITIONAL GENERAL NOTES AND PARABOLIC DETAIL.
3. NB C & PGL CARRIED AT LEFT TRAVEL WAY FROM NB 8+958.0 TO 10+776.0
4. SEE BANKING DIAGRAM ON PROFILE SHEETS FOR CROSS SLOPES.
5. GUARDRAIL TO BE SET FOR ULTIMATE PAVEMENT ELEVATION.
6. EMULSIFIED ASPHALT TO BE APPLIED ON EXISTING PAVEMENT, BETWEEN ALL COURSES OF SUPERPAVE BITUMINOUS CONCRETE PAVEMENT AND ON COLD PLANED SURFACES, AT THE RATE AS IDENTIFIED IN STANDARD SPECIFICATION 404 OR AS DIRECTED BY THE ENGINEER.
7. TEMPORARY EROSION MATTING SHALL BE INSTALLED ON ALL SLOPES GREATER THAN 1:3, TO STABILIZE THE SLOPE.
8. FOR DETAIL ON THE CONSTRUCTION OF THE UNDERDRAIN PIPE AND TRENCH REFER TO VTRANS STANDARD DETAIL D-30.
9. NO INTERIM CONSTRUCTION TRAFFIC WILL BE ALLOWED ON THE SHOULDERS OF ROADWAYS THAT HAVE NOT RECEIVED THE FUTURE (TOP) PAVEMENT COURSE.

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

BANKED SECTION W/ CLIMBING LANES

NOT TO SCALE

SLOPE VARIES, SEE BANKING DIAGRAM ON PROFILE SHEETS PR-1 TO PR-7.

PGL=PROFILE GRADE LINE

VERMONT AGENCY OF TRANSPORTATION

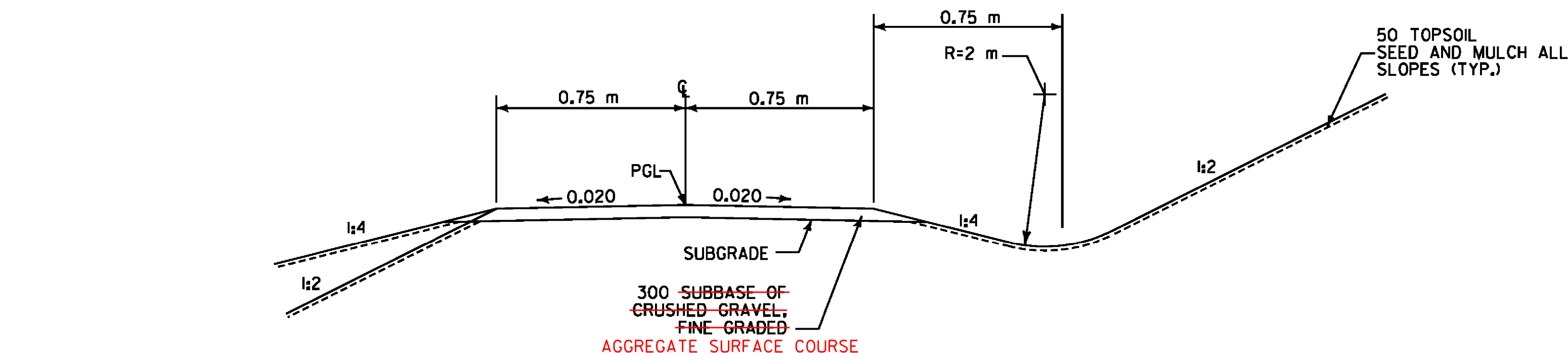


PROJECT NAME:	BENNINGTON
PROJECT NUMBER:	AC NH 019-(52)
FILE NAME:	...\\plot_files\\zd307c2typ.ppf
DESIGN SUPERVISOR:	GREG EDWARDS
DESIGNED BY:	MARC FOISY
TYPICAL TS-02	
PLOT DATE:	5/16/2011
DRAWN BY:	STANTEC
CHECKED BY:	GARY SANTY
SHEET	4 OF 267

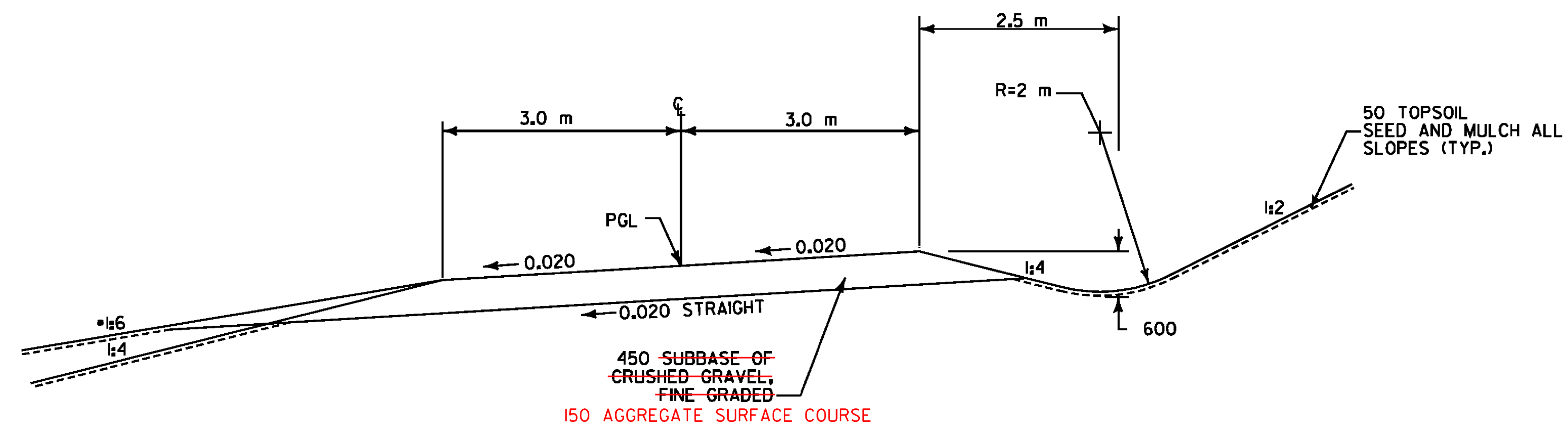
TYPICAL SECTION BALD MOUNTAIN TRAIL QUARRY DRIVE VETERAN'S RESERVOIR DRIVE

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.

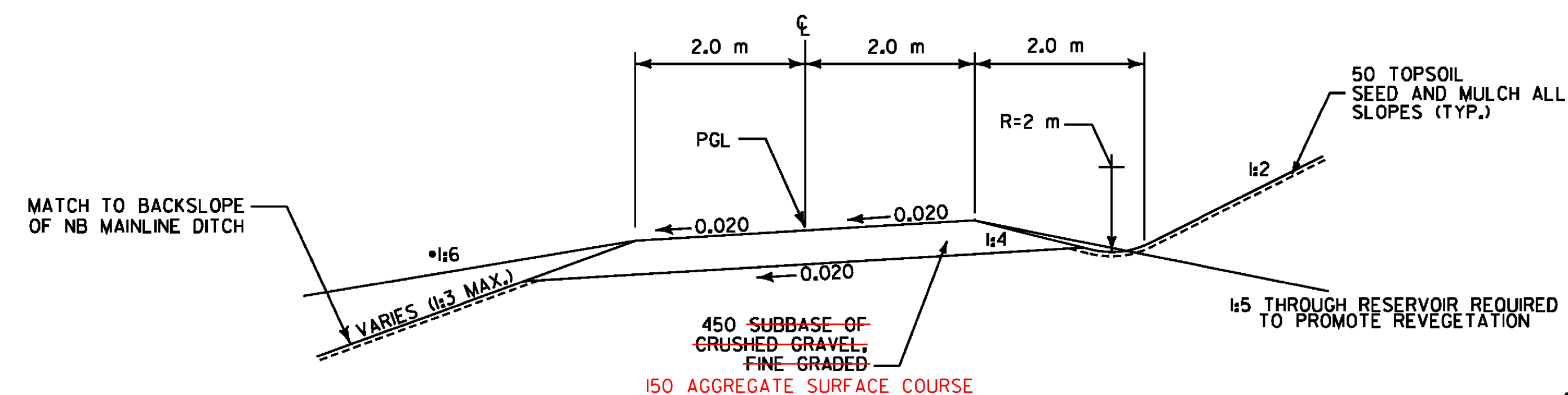


BALD MOUNTAIN TRAIL
NOT TO SCALE



*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



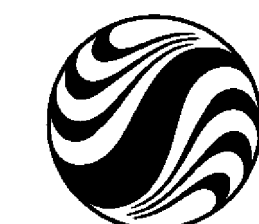
*SIDESLOPES AT THE INTERSECTION (DITCHLINE) OF MAINLINE TO BE 1:6 OR FLATTER IN ACCORDANCE WITH STANDARD B-71.
300 SUBBASE OF DENSE GRADED CRUSHED STONE AS PER WRITTEN ORDER *50

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

PGL=PROFILE GRADE LINE

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
DESIGN SUPERVISOR: GREG EDWARDS
DESIGNED BY: MARC FOISY
TYPICAL TS-03

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

STATE OF VERMONT
AGENCY OF TRANSPORTATION

ITEM DETAIL SHEET

Metric

CURB				
BEGN STATION km + m	END STATION km + m	POSITION		REMARKS
		LEFT M	RIGHT M	
616.305 - BITUMINOUS CONCRETE CURB, TYPE A				
NB 7+120.9	NB 7+612.8		492.5	
NB 7+399.0	NB 7+ 600.0 ⁵⁹⁰	201		
NB 8+201.0	NB 8+307.4	106.4		
NB 8+380.7	NB 8+529.5	148.8		
POSITION TOTAL		456.2	492.5	
SUBTOTAL		948.7		
ROUNDING		1.3		
TOTAL		950		

FENCE				
BEGIN STATION km + m	END STATION km + m	POSITION	QUANTITY	UNITS
620.12 - CHAIN-LINK FENCE, 1.8 M				
VR 1+014.864	VR 1+095.690	RT	76.6	M
VB 1+039.598	VB 1+127.560	LT	88.2	M
VB 1+096.478	VR 1+015.124	RT	25.4	M
VB 1+120.447	VB 1+101.876	RT	18.9	M
VB 1+127.560	VB 1+120.509	RT	33.2	M
VR 1+146.442	VR 1+146.442	LT	2.5	M
VR 1+146.442	VR 1+146.442	RT	2.5	M
NB 7+096.467	NB 7+158.023	RT	85.0	M
NB 7+100.138	NB 7+161.972	RT	47.1	M
NB 7+125.785	NB 7+158.139	LT	58.2	M
NB 7+129.495	NB 7+161.868	LT	64.2	M
NB 7+599.345	NB 7+640.823	RT	41.6	M
QR 1+049.577	QR 1+786.551	LT	726.3	M
QR 1+049.000	QR 1+049.000	LT	2.0	M
QR 1+049.000	QR 1+049.000	RT	10.5	M
QR 1+420.000	QR 1+420.000	LT	4.4	M
QR 1+420.000	QR 1+420.000	RT	5.9	M
QR 1+783.551	QR 1+784.602	LT	3.9	M
QR 1+786.567	QR 1+787.498	RT	3.6	M
SUBTOTAL			1300	
ROUNDING			10	M
TOTAL			1310	M
620.16 - GATE FOR CHAIN-LINK FENCE, 1.8 M				
VR 1+014.864	VR 1+015.124	RT-LT	6.0	M
VR 1+146.442		LT-RT	5.0	M
QR 1+049.000		LT-RT	6.0	M
QR 1+420.000		LT-RT	6.0	M
QR 1+784.740	QR 1+786.405	LT-RT	7.2	M
SUBTOTAL			30	M
ROUNDING			-	M
TOTAL			30	M
620.25 - WOVEN WIRE FENCE WITH STEEL POSTS				
NB 6+401.855 ⁶⁺⁴³⁴	NB 7+125.000	RT	725.7	M
NB 6+404.245	NB 6+640.306	LT	226.7	M
VR 1+091.043	NB 7+096.000	RT	384.4	M
NB 7+100.384	NB 7+599.345	RT	540.0	M
NB 7+130.000	NB 7+324.990	LT	210.6	M
NB 7+332.083	NB 8+305.480	LT	935.2	M
DR 1+012.033	DR 1+012.033	LT	6.5	M
DR 1+012.033	DR 1+012.033	RT	6.5	M
SUBTOTAL			3036	M
ROUNDING			24	M
TOTAL			3060	M
620.30 - DRIVE GATE FOR WOVEN WIRE FENCE				
DR 1+012.033		LT-RT	1	EACH
620.55 - REMOVAL OF EXISTING FENCE				
CV 5+148.457	VR 1+074.788	LT	137.9	M
CV 5+148.457	VR 1+074.788	RT	132.7	M
NB 7+940.000	NB 7+970.048	RT-LT	98.5	M
CH 1+343.117	CH 1+348.737	LT	5.4	M
SUBTOTAL			375	M
ROUNDING			0	M
TOTAL			375	M

GUARDRAIL					
BEGIN STATION km + m	END STATION km + m	POSITION		END TREATMENT	
		LEFT m	RIGHT m	BEGIN ea	END ea
621.20 - STEEL BEAM GUARDRAIL, GALVANIZED					
NB 7+000.0	7+308.6	312.4		1	1
NB 7+003.3	7+612.9		605.8	1	1
NB 7+399.0	7+799.0	400.1		1	1
NB 8+136.0 ¹³⁶	8+316.8		181.8	1	
NB 8+197.2 ²¹⁸	8+340.8 ³²⁰	113.6			1
NB 8+377.3	8+526.0	148.7			
NB 8+383.1	8+526.0		142.9		
POSITION TOTAL		974.8	930.5		
SUBTOTAL		1905.3			
ROUNDING		0.7			
TOTAL		1906			
621.50 - MANUFACTURED TEMINAL END SECTION, FLARED					
POSITION TOTAL				4	4
SUBTOTAL				8	
ROUNDING				-	
TOTAL				8	
605.10-150 UNDERDRAIN ADDED TO CONTRACT					
NB 6+644 -	6+666	A	RT	REF	DP-02
NB 6+665 -	6+670	B	RT	REF	DP-02
NB 6+686 -	6+686	C	RT	REF	DP-02
NB 6+679 -	6+679	D	RT	REF	DP-02
NB 7+180 -	7+335	LT-RT		REF	DP-04
NB 7+160 -	7+180	BOX CULVERT		REF	DP-04
NB 7+980 -	8+034	U423	RT	REF	DP-06
NB 7+980 -	8+050	U405	LT	REF	DP-06
NB 8+320 -	8+340			REF	DP-09
NB 8+365 -	8+370			REF	DP-09

UNDERDRAIN										
BEGIN STATION km + m	END STATION km + m	TYPE	POSITION	DIA. mm	LENGTH m	TRENCH (1)		FB ea		MKR PST ea
						EARTH m³	ROCK m³			
605.10 - 150 UNDERDRAIN										
NB 6+595.0	6+670.0	U503	RT	150	69	86.6		1		1
NB 6+595.0	6+670.0	U518	LT	150	69.2	86.8		1		1
NB 6+670.0	7+040.0	U519	LT	150	383.2	480.9		4		4
NB 6+670.0	6+760.0	U504	RT	150	84	105.4		1		1
NB 6+760.0	6+835.0	U506	RT	150	69	86.6		1		1
NB 6+835.0	6+910.0	U507	RT	150	69	86.6		1		1
NB 6+910.0	6+985.0	U508	RT	150	68.5	86		1		1
NB 6+985.0	7+070.0	U509	RT	150	81	101.7		1		1
NB 7+075.0	7+130.0	U416	RT	150	54.8	68.77		1		1
NB 7+157.7	7+165.0	U491	RT	150	7.1	8.9				
NB 7+640.0	7+850.0	U432	RT	150	206.9	259.7		2		2
NB 7+852.0	7+975.0	U424	RT	150	120.2	150.8		2		2
NB 7+880.0	7+975.0	U406	LT	150	89.7	112.6		1		1
NB 8+050.5	8+125.0	U422	RT	150	69.8	87.6		1		1
NB 8+050.5	8+125.0	U404	LT	150	68.2	85.6		1		1
NB 8+125.0	8+200.0	U403	LT	150	67.6	84.8		1		1
NB 8+130.0	8+200.0	U421	RT	150	69	86.7		1		1
SUBTOTAL		U			1646	2066				
ROUNDING		U			324					
TOTAL		U			1970					
605.20 - 150 UNDERDRAIN CARRIER PIPE										
14 FLUSHING BASINS		C	RT	150	17	70				
7 FLUSHING BASINS		C	LT	150	8	35				
NB 7+150.0	NB 7+130.0	C	RT	150	11					
SUBTOTAL		C			36					
ROUNDING					-					
TOTAL					36					
204.20 TRENCH EXCAVATION										
SUBTOTAL							2171			
605.95 UNDERDRAIN FLUSHING BASIN										
SUBTOTAL								21		
619.17 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

PROJECT NAME: BENNINGTON

PROJECT NUMBER: AC NH 019-1(52)

FILE NAME: zd307c2itemdetail.xls
PROJECT LEADER: GREG EDWARDS
DESIGNED BY: JJS/MARC FOISY
ITEM DETAIL SHEET ID-1

PLOT DATE: 01/23/2008
DRAWN BY: Stantec
CHECKED BY: GARY SANTY
SHEET 15 OF 267

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

CONSTRUCT DRIVE

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

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

CANNISTRACI,
ANTHONY A. & ANGELA J.

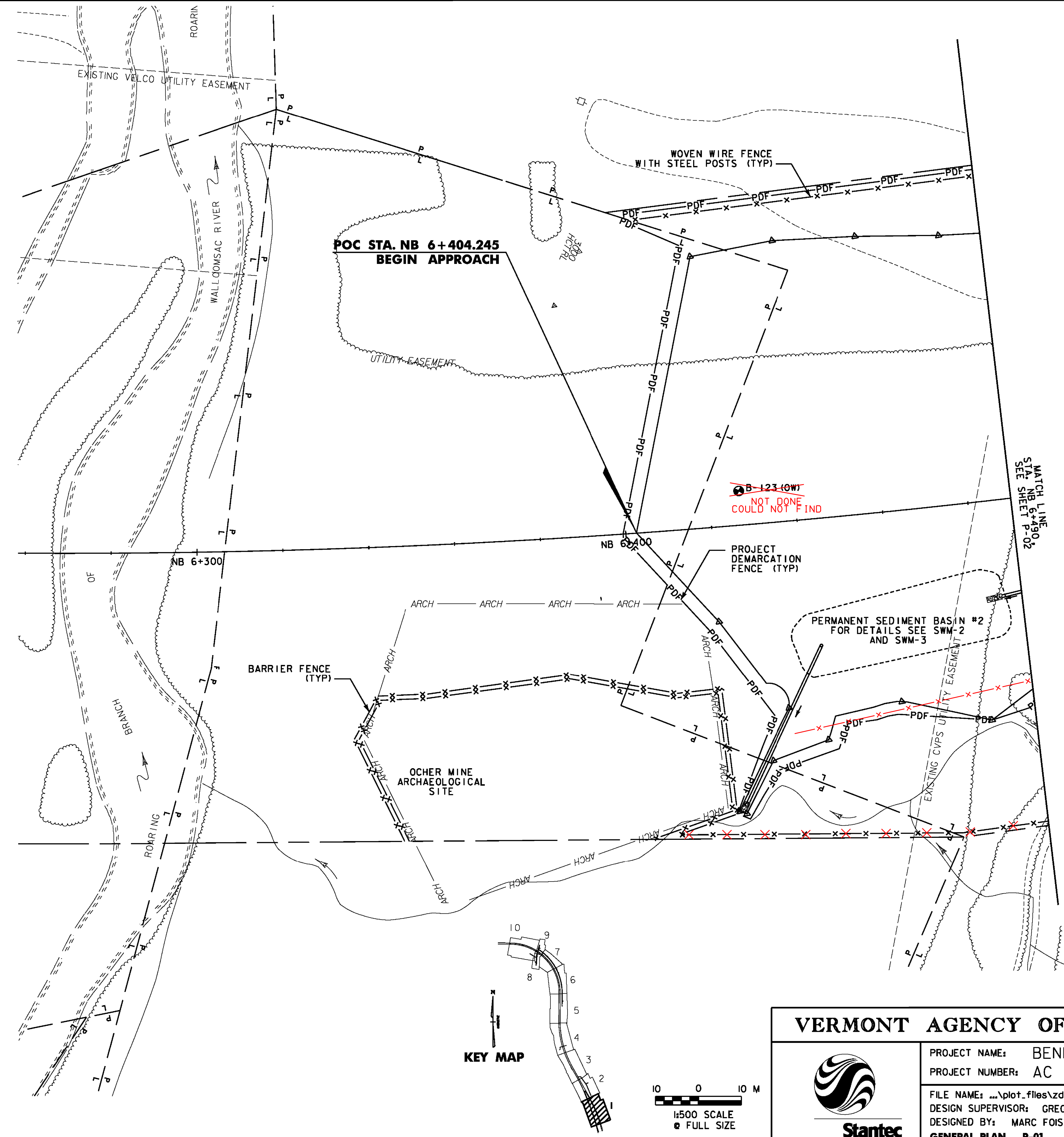
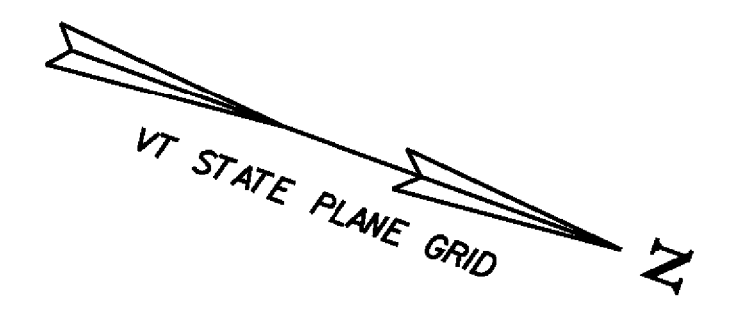
PROJECT NUMBER:	AC NH 019-1(52)
PLOT DATE:	12-18-07
DRAWN BY:	MBB
CHECKED BY:	GAK
SHEET:	40 OF 267

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

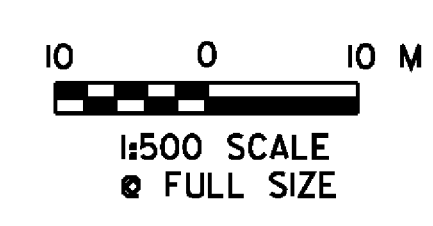
PROJECT DEMARCATION FENCE
STA. NB 6+404.245, 74.2m LT. - STA. NB 6+399.368, C.
STA. NB 6+399.368 C. - STA. NB 6+420.731, 67.0m RT.
STA. NB 6+420.731, 67.0m RT. - STA. NB 6+490.000, 48.2m RT.
STA. NB 6+406.539, 72.8m LT. - STA. NB 6+490.000, 75.6m LT.

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



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

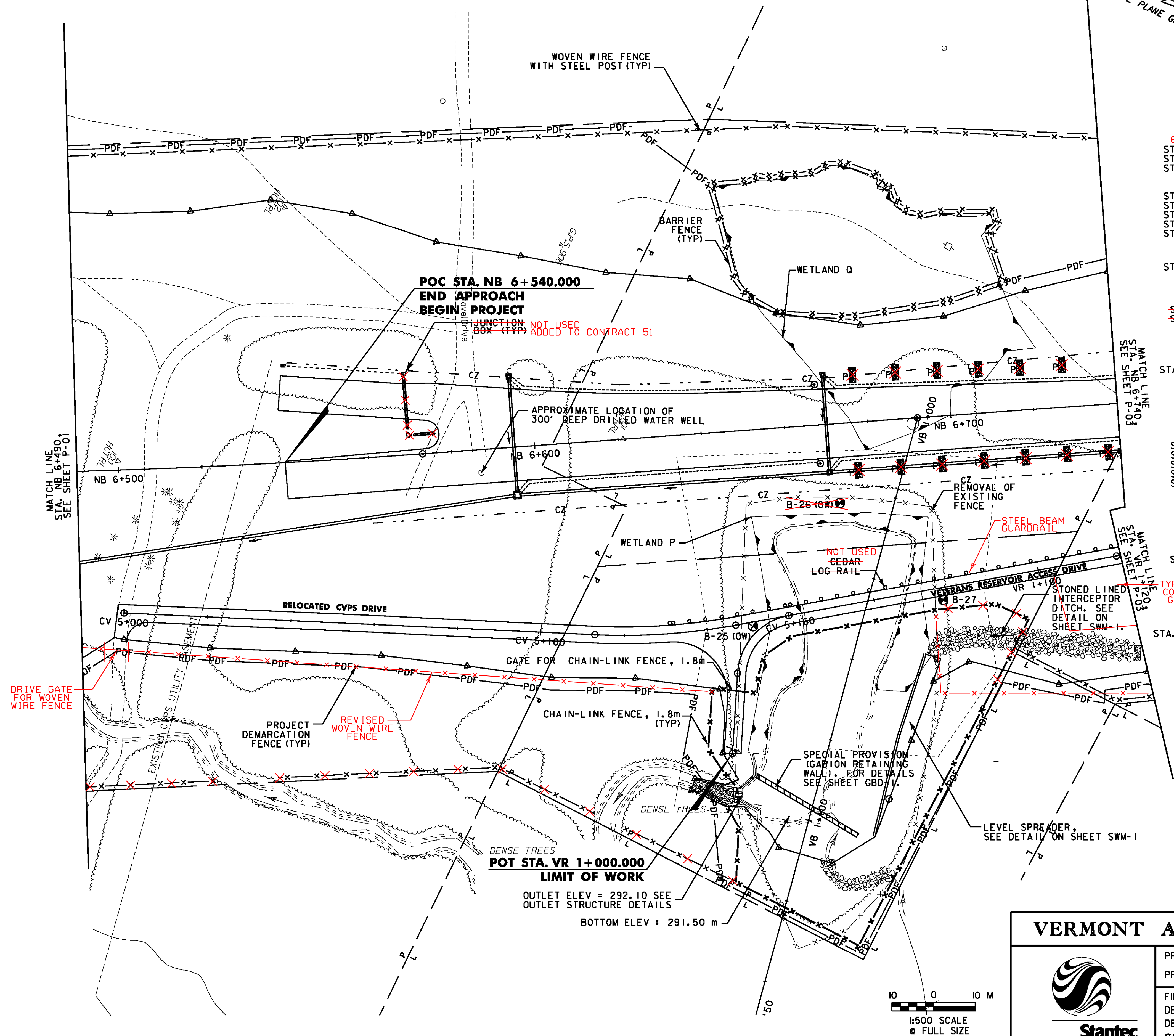


VERMONT AGENCY OF TRANSPORTATION

PROJECT NAME:	BENNINGTON
PROJECT NUMBER:	AC NH 019-1(52)
FILE NAME:	...plot.files\zd307c2p0lptf
DESIGN SUPERVISOR:	GREG EDWARDS
DESIGNED BY:	MARC FOISY
GENERAL PLAN	P-01

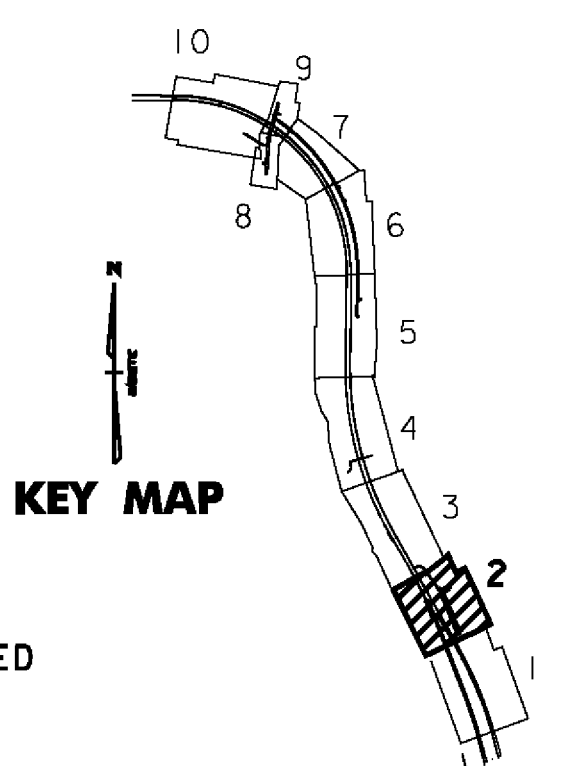
PLOT DATE:	5/16/2011
DRAWN BY:	STANTEC
CHECKED BY:	GARY SANTY
SHEET	71 OF 267

V:\953\active\95310002\Transportation\drawing\contract\2\plot_files\zd307c2p0lptf



- 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.
- 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. VB 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**
~~CEGAR 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~~

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.pft
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

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.

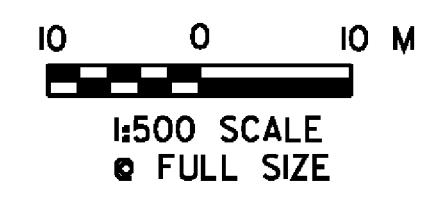
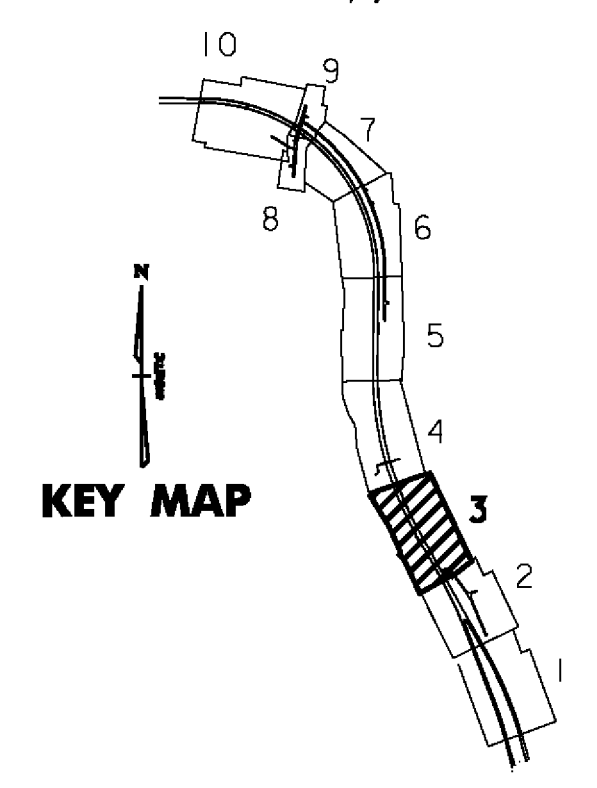
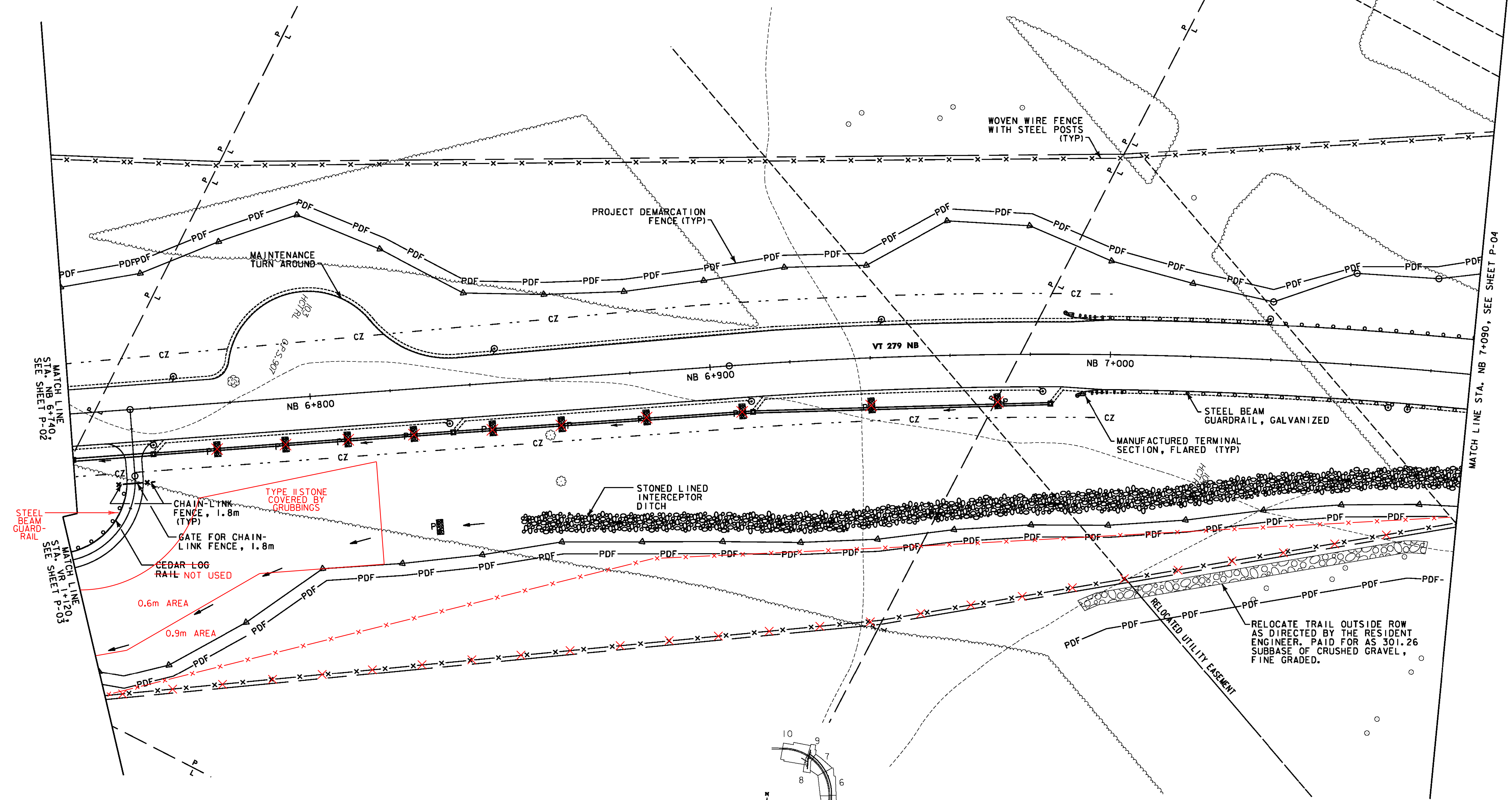
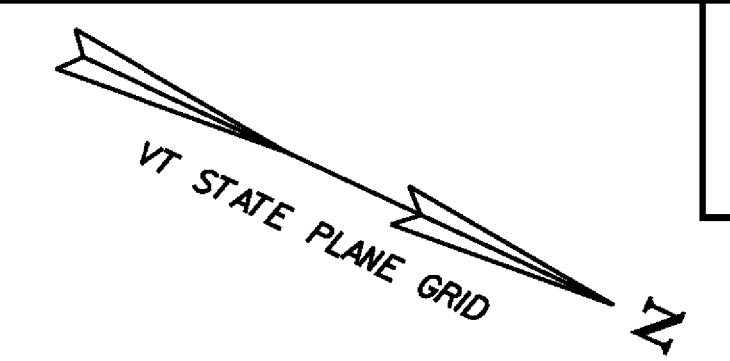
GATE FOR CHAIN-LINK FENCE, 1.8m
STA. VR 1+146.442, 2.5m LT. TO 2.5m RT.

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.

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.

008STEEL 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.
~~CEDAR LOG RAIL NOT USED~~
STA. VR 1+120.000, 2.0m LT. - STA. VR 1+145.820, 2.0m RT.
STEEL BEAM GUARDRAIL

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



VERMONT AGENCY OF TRANSPORTATION



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

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.

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.

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+125.789, 66.4m LT. - STA. NB 7+158.139, 28.6m LT.
 STA. NB 7+129.499, 67.2m LT. - STA. NB 7+161.868, 28.6m 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.

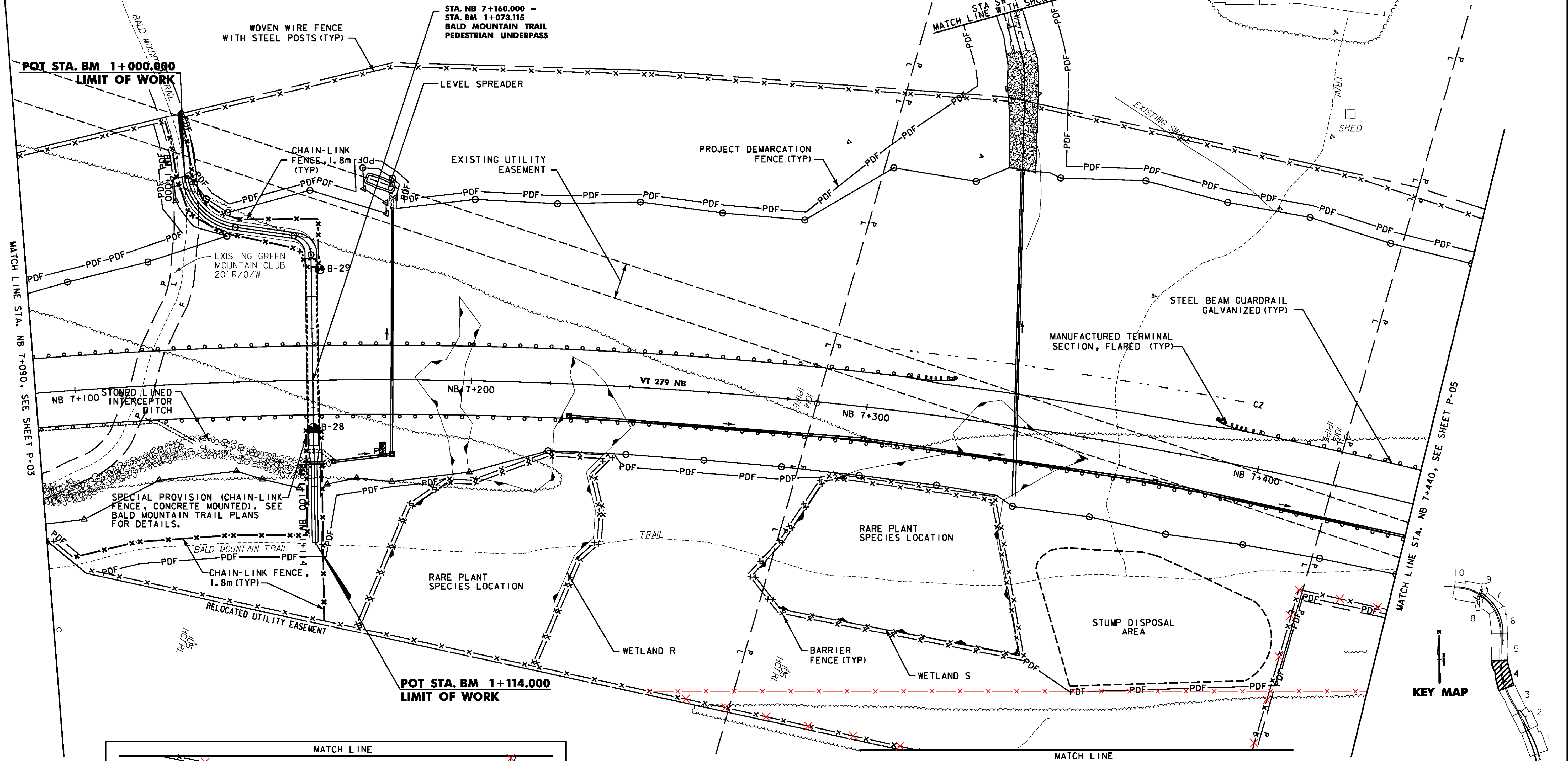
MANUFACTURED TERMINAL SECTION, FLARED
 STA. NB 7+309.981, 8.7m LT.
 STA. NB 7+398.951, 8.7m LT.

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+118 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.

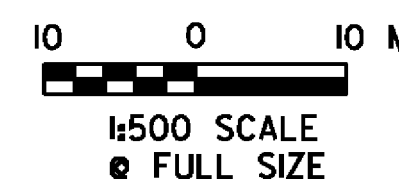
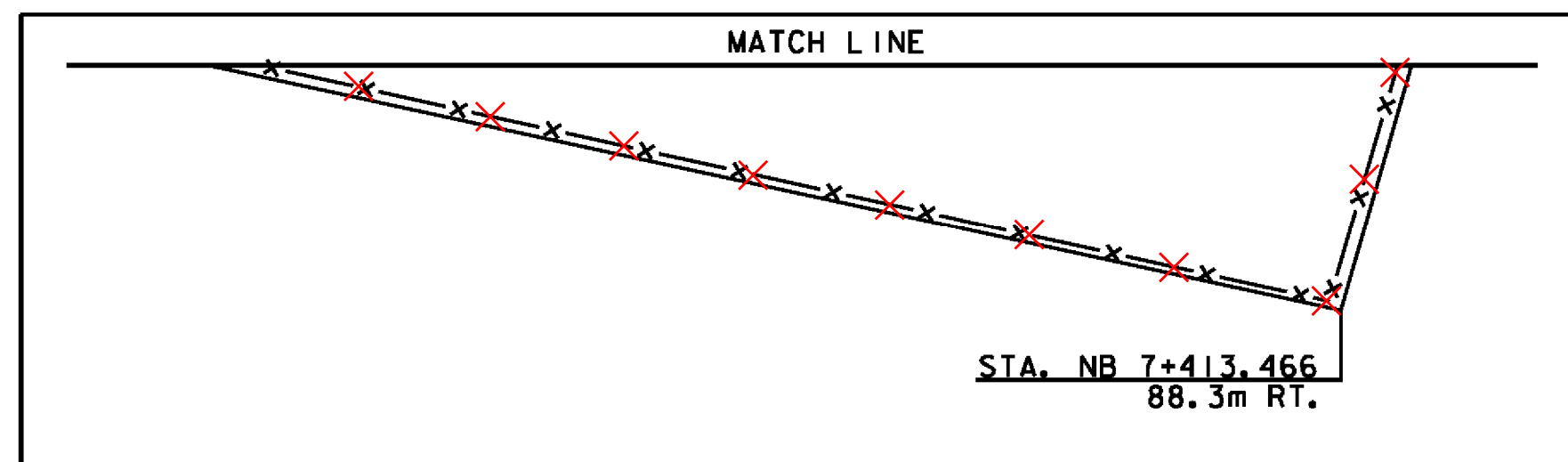
STONE FILL, TYPE II
 STA. NB 7+140.000, RT. - STA. NB 7+360.000, RT. (FOR SLOPE STABILIZATION)

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



POT STA. BM 1+000.000
LIMIT OF WORK

POT STA. BM 1+114.000
LIMIT OF WORK



KEY MAP

VERMONT AGENCY OF TRANSPORTATION



PROJECT NAME:	BENNINGTON
PROJECT NUMBER:	AC NH 019-1(52)
FILE NAME:	...plot-files\zd307c2p04.pdf
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

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 A⁶¹⁰
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.

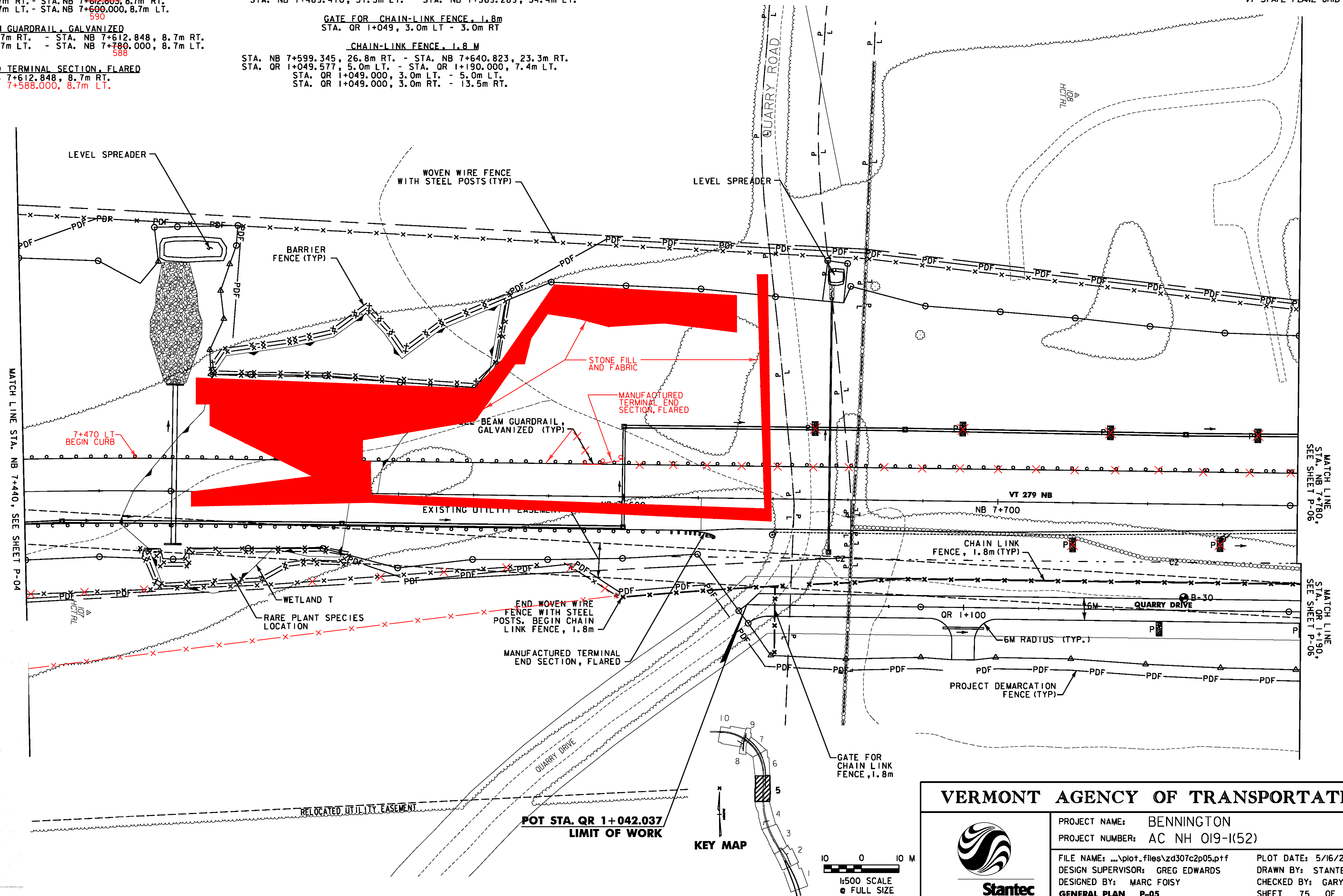
GATE FOR CHAIN-LINK FENCE, 1.8m
STA. QR 1+049, 3.0m LT - 3.0m RT

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)

Metric



Drawn on Final Plans - Large Set

Calculation Book Number	Calculation Sheet Number	01/16/2
Project Bennington AC NH 019-1(S2)	Page Number	of
Line Item#	Field Measured by	on
Item#		
Location NB 7+440 - 7+780		

Station	From	To	Length	Description
7+440	7+440	7+445	5.0m	STONE FILL
7+445	7+445	7+450	5.0m	STONE FILL
7+450	7+450	7+455	5.0m	STONE FILL
7+455	7+455	7+460	5.0m	STONE FILL
7+460	7+460	7+465	5.0m	STONE FILL
7+465	7+465	7+470	5.0m	STONE FILL
7+470	7+470	7+475	5.0m	STONE FILL
7+475	7+475	7+480	5.0m	STONE FILL
7+480	7+480	7+485	5.0m	STONE FILL
7+485	7+485	7+490	5.0m	STONE FILL
7+490	7+490	7+495	5.0m	STONE FILL
7+495	7+495	7+500	5.0m	STONE FILL
7+500	7+500	7+505	5.0m	STONE FILL
7+505	7+505	7+510	5.0m	STONE FILL
7+510	7+510	7+515	5.0m	STONE FILL
7+515	7+515	7+520	5.0m	STONE FILL
7+520	7+520	7+525	5.0m	STONE FILL
7+525	7+525	7+530	5.0m	STONE FILL
7+530	7+530	7+535	5.0m	STONE FILL
7+535	7+535	7+540	5.0m	STONE FILL
7+540	7+540	7+545	5.0m	STONE FILL
7+545	7+545	7+550	5.0m	STONE FILL
7+550	7+550	7+555	5.0m	STONE FILL
7+555	7+555	7+560	5.0m	STONE FILL
7+560	7+560	7+565	5.0m	STONE FILL
7+565	7+565	7+570	5.0m	STONE FILL
7+570	7+570	7+575	5.0m	STONE FILL
7+575	7+575	7+580	5.0m	STONE FILL
7+580	7+580	7+585	5.0m	STONE FILL
7+585	7+585	7+590	5.0m	STONE FILL
7+590	7+590	7+595	5.0m	STONE FILL
7+595	7+595	7+600	5.0m	STONE FILL
7+600	7+600	7+605	5.0m	STONE FILL
7+605	7+605	7+610	5.0m	STONE FILL
7+610	7+610	7+615	5.0m	STONE FILL
7+615	7+615	7+620	5.0m	STONE FILL
7+620	7+620	7+625	5.0m	STONE FILL
7+625	7+625	7+630	5.0m	STONE FILL
7+630	7+630	7+635	5.0m	STONE FILL
7+635	7+635	7+640	5.0m	STONE FILL
7+640	7+640	7+645	5.0m	STONE FILL
7+645	7+645	7+650	5.0m	STONE FILL
7+650	7+650	7+655	5.0m	STONE FILL
7+655	7+655	7+660	5.0m	STONE FILL
7+660	7+660	7+665	5.0m	STONE FILL
7+665	7+665	7+670	5.0m	STONE FILL
7+670	7+670	7+675	5.0m	STONE FILL
7+675	7+675	7+680	5.0m	STONE FILL
7+680	7+680	7+685	5.0m	STONE FILL
7+685	7+685	7+690	5.0m	STONE FILL
7+690	7+690	7+695	5.0m	STONE FILL
7+695	7+695	7+700	5.0m	STONE FILL
7+700	7+700	7+705	5.0m	STONE FILL
7+705	7+705	7+710	5.0m	STONE FILL
7+710	7+710	7+715	5.0m	STONE FILL
7+715	7+715	7+720	5.0m	STONE FILL
7+720	7+720	7+725	5.0m	STONE FILL
7+725	7+725	7+730	5.0m	STONE FILL
7+730	7+730	7+735	5.0m	STONE FILL
7+735	7+735	7+740	5.0m	STONE FILL
7+740	7+740	7+745	5.0m	STONE FILL
7+745	7+745	7+750	5.0m	STONE FILL
7+750	7+750	7+755	5.0m	STONE FILL
7+755	7+755	7+760	5.0m	STONE FILL
7+760	7+760	7+765	5.0m	STONE FILL
7+765	7+765	7+770	5.0m	STONE FILL
7+770	7+770	7+775	5.0m	STONE FILL
7+775	7+775	7+780	5.0m	STONE FILL

Computed by _____ Date _____ Checked by _____ Date _____

VERMONT AGENCY OF TRANSPORTATION



PROJECT NAME: BENNINGTON
PROJECT NUMBER: AC NH 019-1(S2)
FILE NAME: ...plot_files\zd307c2p05.prf
DESIGN SUPERVISOR: GREG EDWARDS
DESIGNED BY: MARC FOISY
GENERAL PLAN P-05
PLOT DATE: 5/16/2011
DRAWN BY: STANTEC
CHECKED BY: GARY SANTY
SHEET 75 OF 267

Calculation Book Number _____ Calculation Sheet Number 614/09
Project Bennington AC NH 019-1(52) _____
Line Item# _____ Page Number _____ of _____
Item# _____ Field Measured by _____
Location NB 7+485- 7+640 on _____

Layout	Area	Standard Fill	# Concrete	- Doors
START POINT	74485	30.0 m	LT	
	74488	24.5 m	LT	
	74489	24.5 m	LT	
	74489	12.0 m	LT	
	74491	4.0 m	LT	
	74485	0		
	74485	4.0 m	RT	
	74483	3.0 m	RT	
	74440	8.0 m	RT	
	74438	58.0 m	LT	
	74434.5	58.0 m	LT	
	74439	4.5 m	RT	
	74433	0.5 m	RT	
	74432	9.0 m	LT	
	74530.5	9.0 m	LT	
	74530.5	14.5 m	LT	
	74520	18.5 m	LT	
	74521	38.5 m	LT	
	74523.9	34.0 m	LT	
	74528.5	40.0 m	LT	
	74528	48.5 m	LT	
	74528	97.5 m	LT	
	74526	46.0 m	LT	
	74610	47.0 m	LT	
	74620	43.2 m	LT	
	74630	54.5 m	LT	
	74581	52.0 m	LT	
	74582	36.0 m	LT	
	74580	27.5 m	LT	
	74485	30 m	LT	START POINT

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. QR 1+433.342, RT (7.2m GRAVEL)
STA. QR 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.

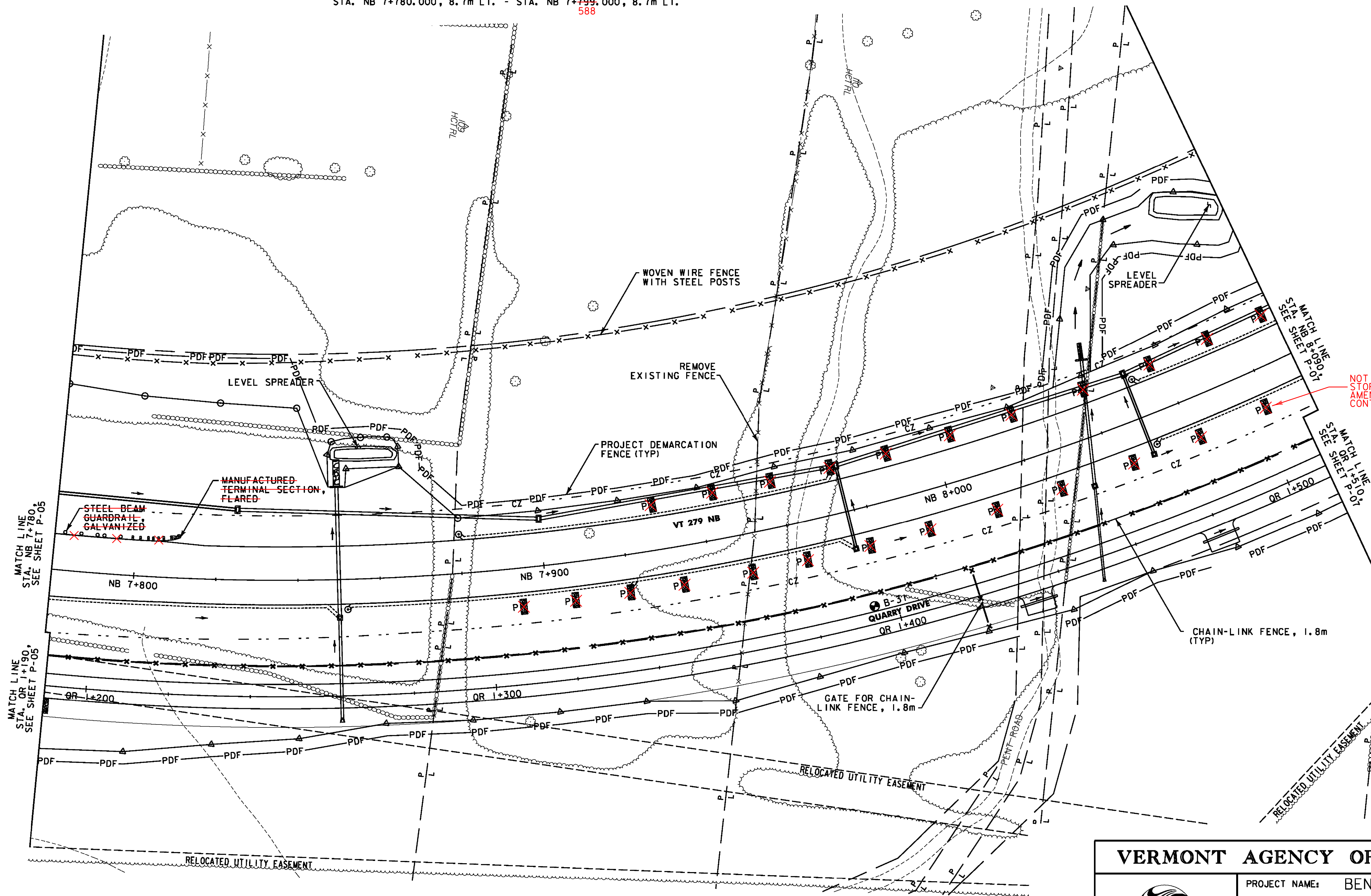
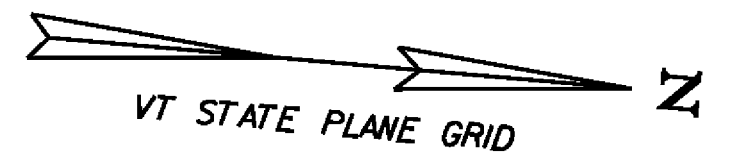
MANUFACTURED TERMINAL SECTION, FLARED
STA. NB 7+799.000, 8.7m LT. - STA. NB 7+799.000, 8.7m LT.
STEEL BEAM GUARDRAIL, GALVANIZED
STA. NB 7+780.000, 8.7m LT. - STA. NB 7+799.000, 8.7m LT.

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

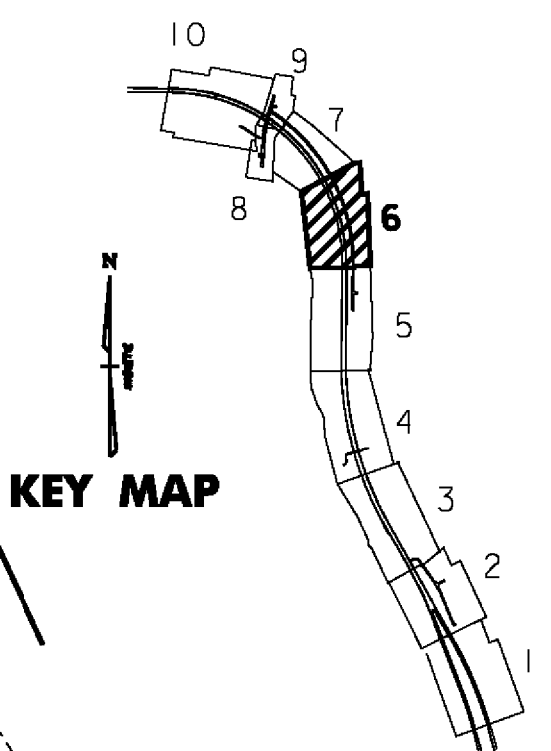
GATE FOR CHAIN-LINK FENCE, 1.8m
STA. QR 1+420, 3.0m LT - 3.0m RT

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

Metric



NOT INSTALLED
STORMWATER
AMENDMENT UNDER
CONTRACT 51



VERMONT AGENCY OF TRANSPORTATION

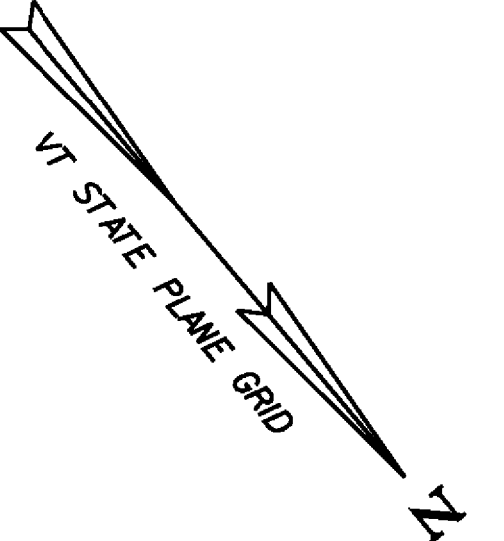


PROJECT NAME: BENNINGTON
PROJECT NUMBER: AC NH 019-1(52)

FILE NAME: ...\\plot-files\\zd307c2p06.prf
DESIGN SUPERVISOR: GREG EDWARDS
DESIGNED BY: MARC FOISY
GENERAL PLAN P-06

PLOT DATE: 5/16/2011
DRAWN BY: STANTEC
CHECKED BY: GARY SANTY
SHEET 76 OF 267

10 0 10 M
1:500 SCALE
= FULL SIZE



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~~

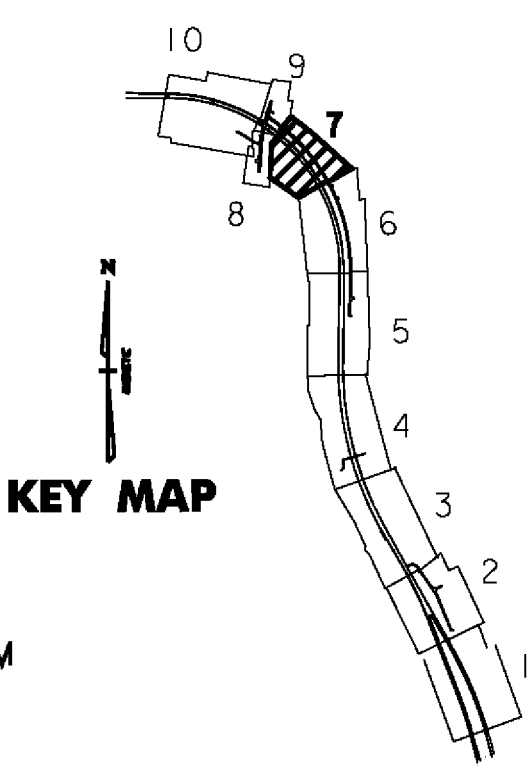
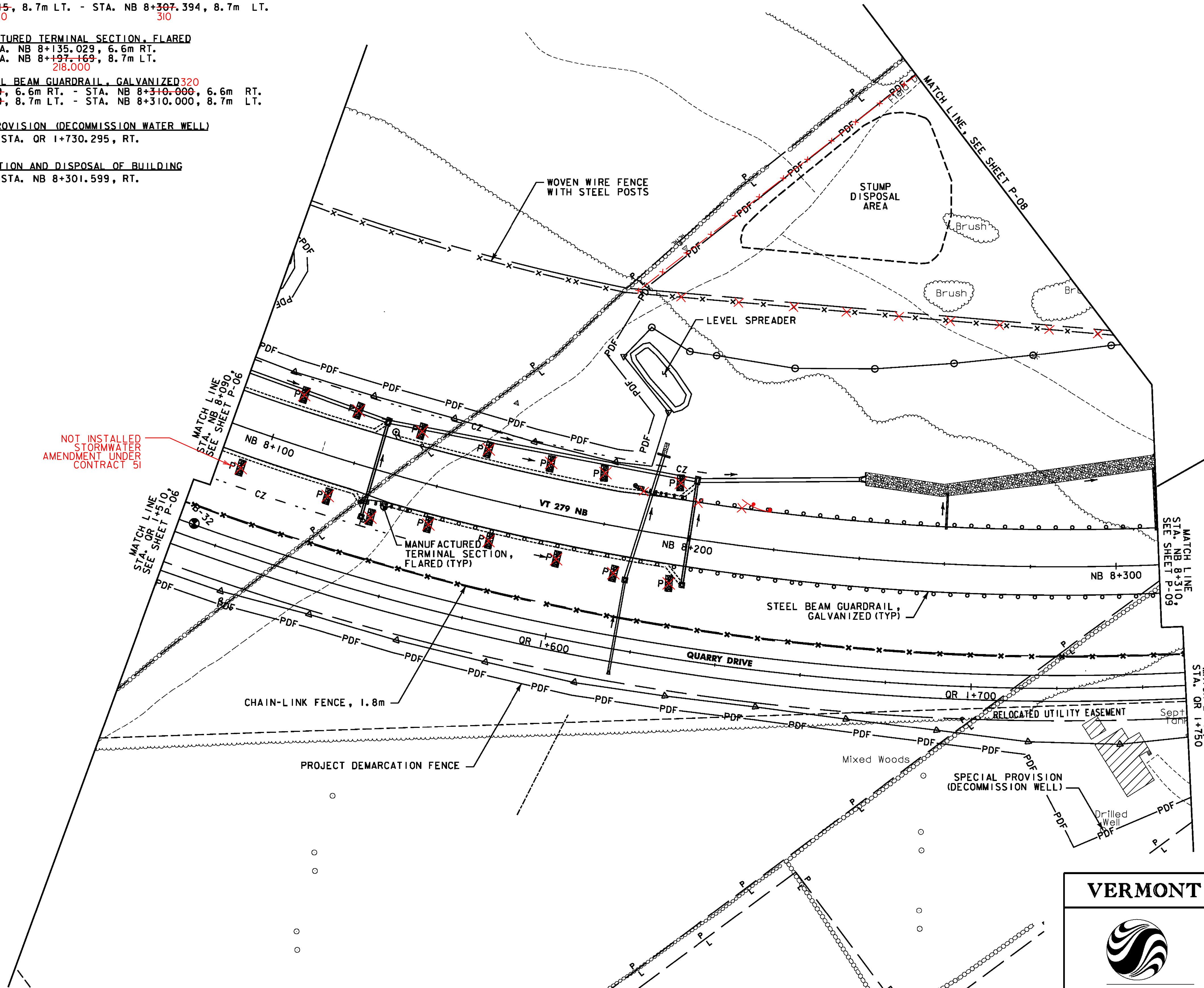
MANUFACTURED TERMINAL SECTION, FLARED
STA. NB 8+135.029, 6.6m RT.
STA. NB 8+197.169, 8.7m LT.
~~218.000~~

136 STEEL BEAM GUARDRAIL, GALVANIZED 320
STA. NB 8+135.029, 6.6m RT. - STA. NB 8+340.000, 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



10 0 10 M
1:500 SCALE
● FULL SIZE

VERMONT AGENCY OF TRANSPORTATION



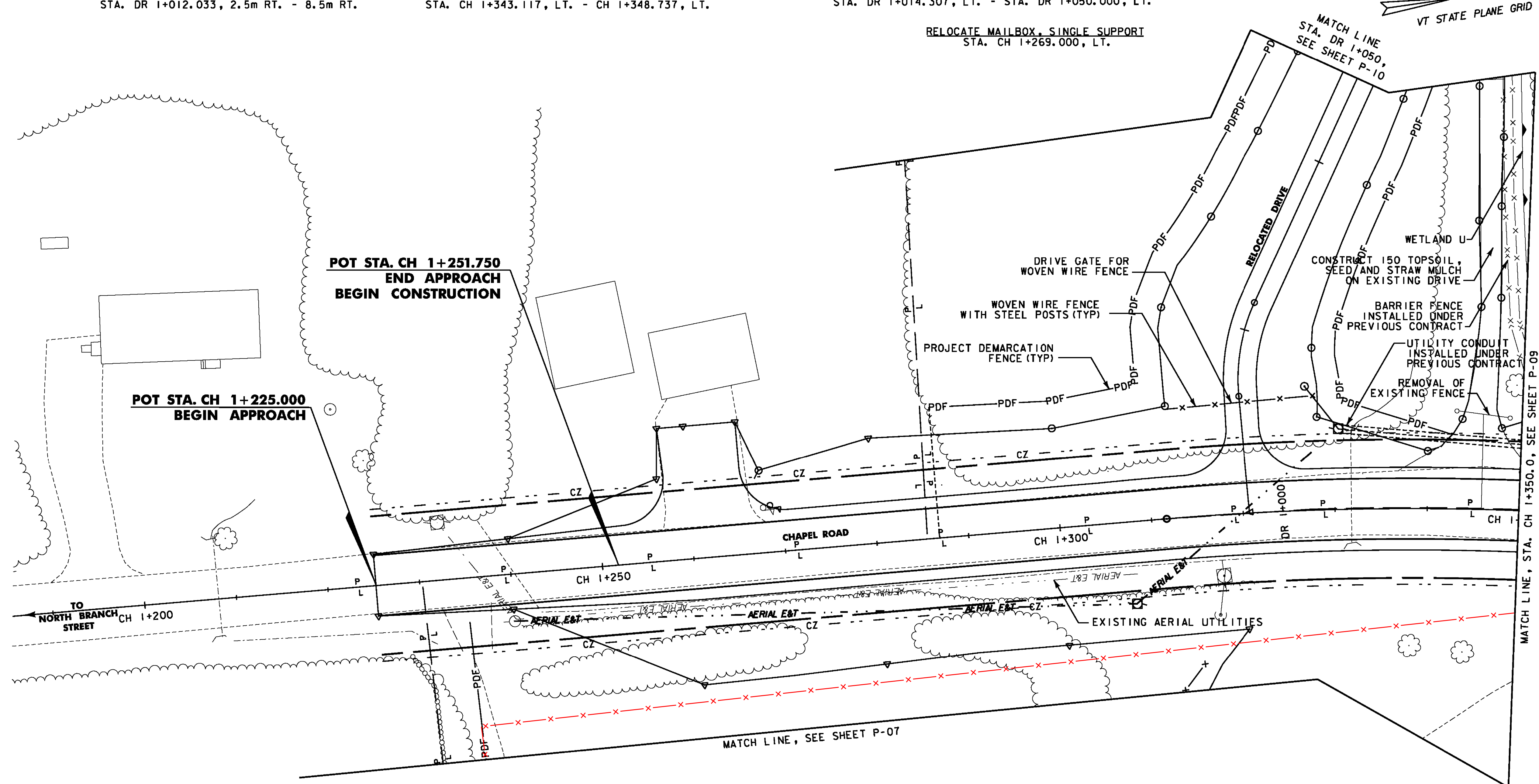
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PROJECT NUMBER: AC NH 019-1(52)	DRAWN BY: STANTEC
FILE NAME: ...\\plot-files\\zd307c2p07.prf	CHECKED BY: GARY SANTY
DESIGN SUPERVISOR: GREG EDWARDS	SHEET 77 OF 267
DESIGNED BY: MARC FOISY	
GENERAL PLAN P-07	

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.



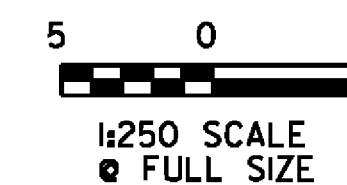
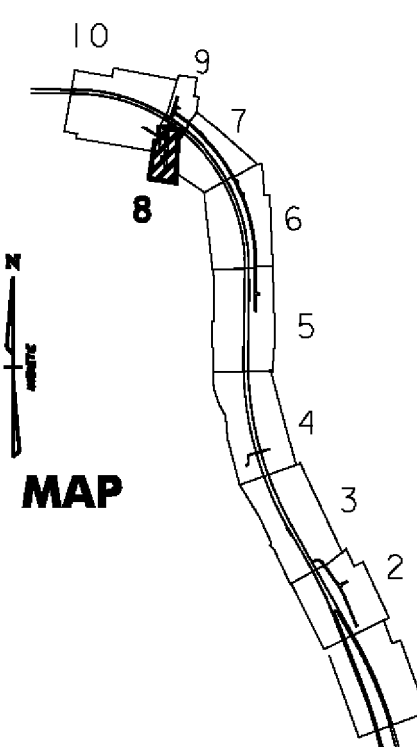
Metric

POT STA. CH 1+225.000
BEGIN APPROACH

POT STA. CH 1+251.750
END APPROACH
BEGIN CONSTRUCTION

MATCH LINE, SEE SHEET P-07

KEY MAP



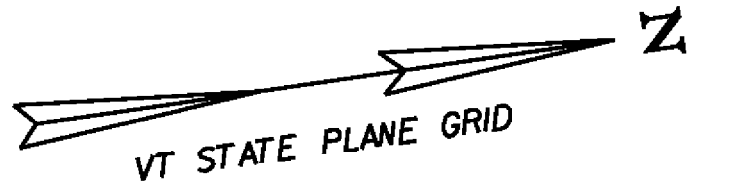
VERMONT AGENCY OF TRANSPORTATION



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

FILE NAME: ...\\plot-files\\zd307c2p08.prf
DESIGN SUPERVISOR: GREG EDWARDS
DESIGNED BY: MARC FOISY
GENERAL PLAN P-08

PLOT DATE: 5/16/2011
DRAWN BY: STANTEC
CHECKED BY: GARY SANTY
SHEET 78 OF 267



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

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

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

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

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.

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)

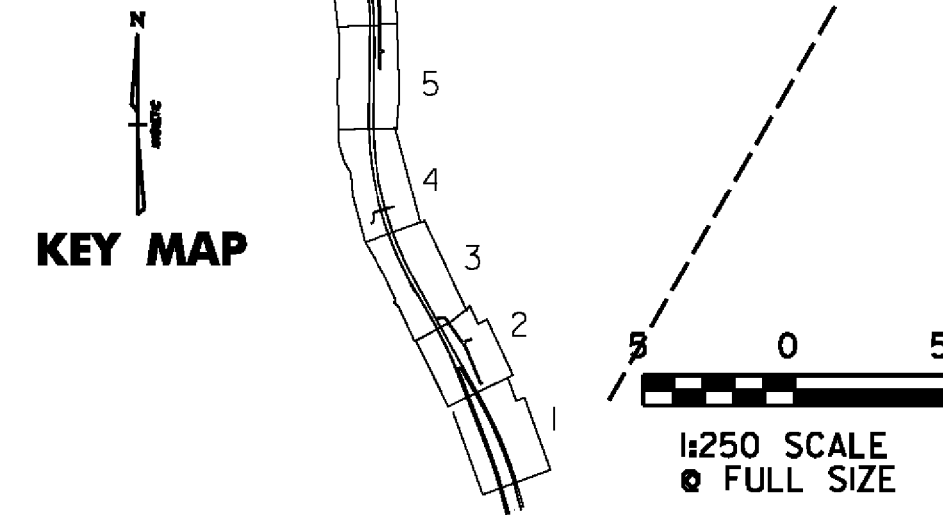
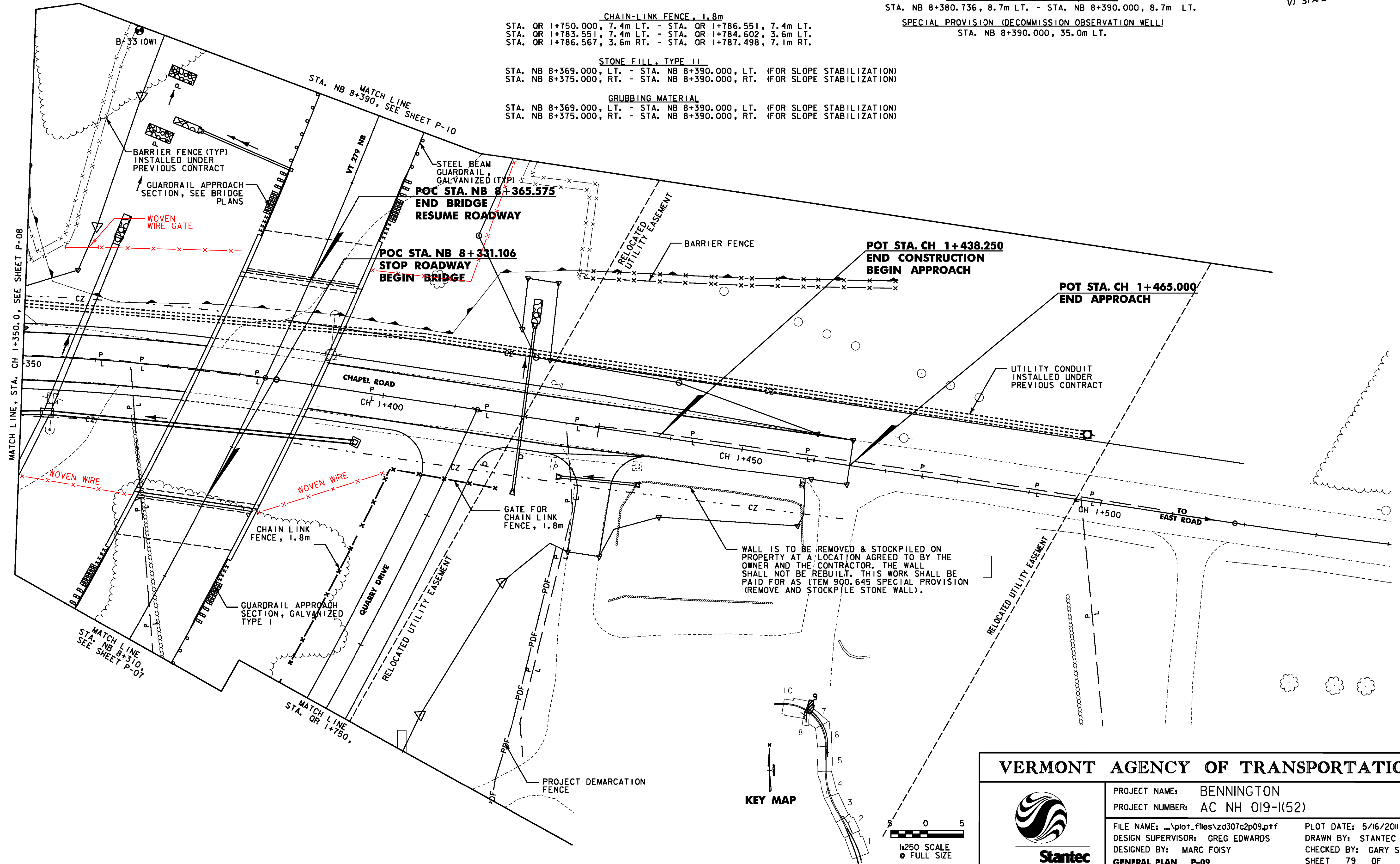
GRUBBING MATERIAL
STA. NB 8+369.000, LT. - STA. NB 8+390.000, LT. (FOR SLOPE STABILIZATION)
STA. NB 8+375.000, RT. - STA. NB 8+390.000, RT. (FOR SLOPE STABILIZATION)

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.

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

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

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



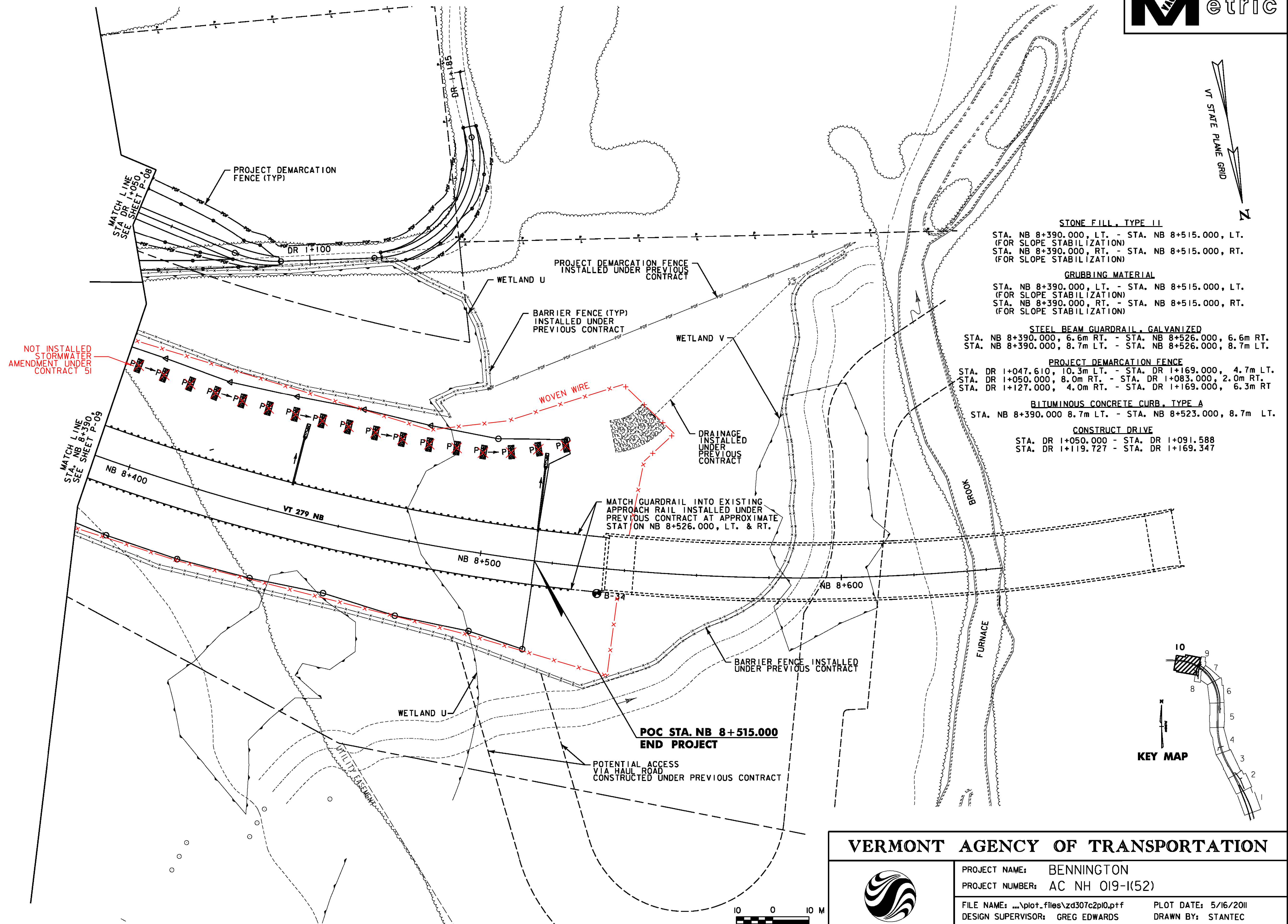
VERMONT AGENCY OF TRANSPORTATION



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

FILE NAME: \\plot-files\zd307c2p09.pff
DESIGN SUPERVISOR: GREG EDWARDS
DESIGNED BY: MARC FOISY
GENERAL PLAN P-09

PLOT DATE: 5/16/2011
DRAWN BY: STANTEC
CHECKED BY: GARY SANTY
SHEET 79 OF 267

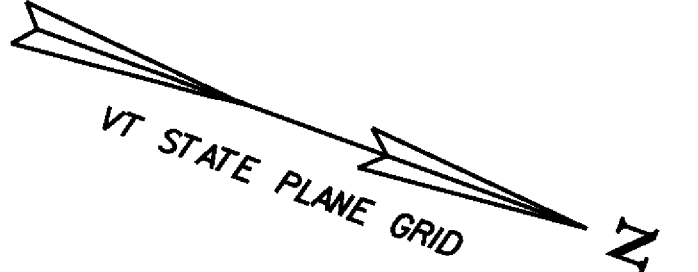


VERMONT AGENCY OF TRANSPORTATION



PROJECT NAME:	BENNINGTON
PROJECT NUMBER:	AC NH 019-K(52)
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DESIGN SUPERVISOR:	GREG EDWARDS
DESIGNED BY:	MARC FOISY
GENERAL PLAN	P-10
PLOT DATE:	5/16/2011
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 110.4 ^{81.0} m PIPE OPTION 2 CONST STONE FILL TYPE I OUTLET PROTECTION

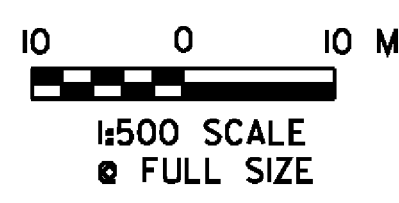
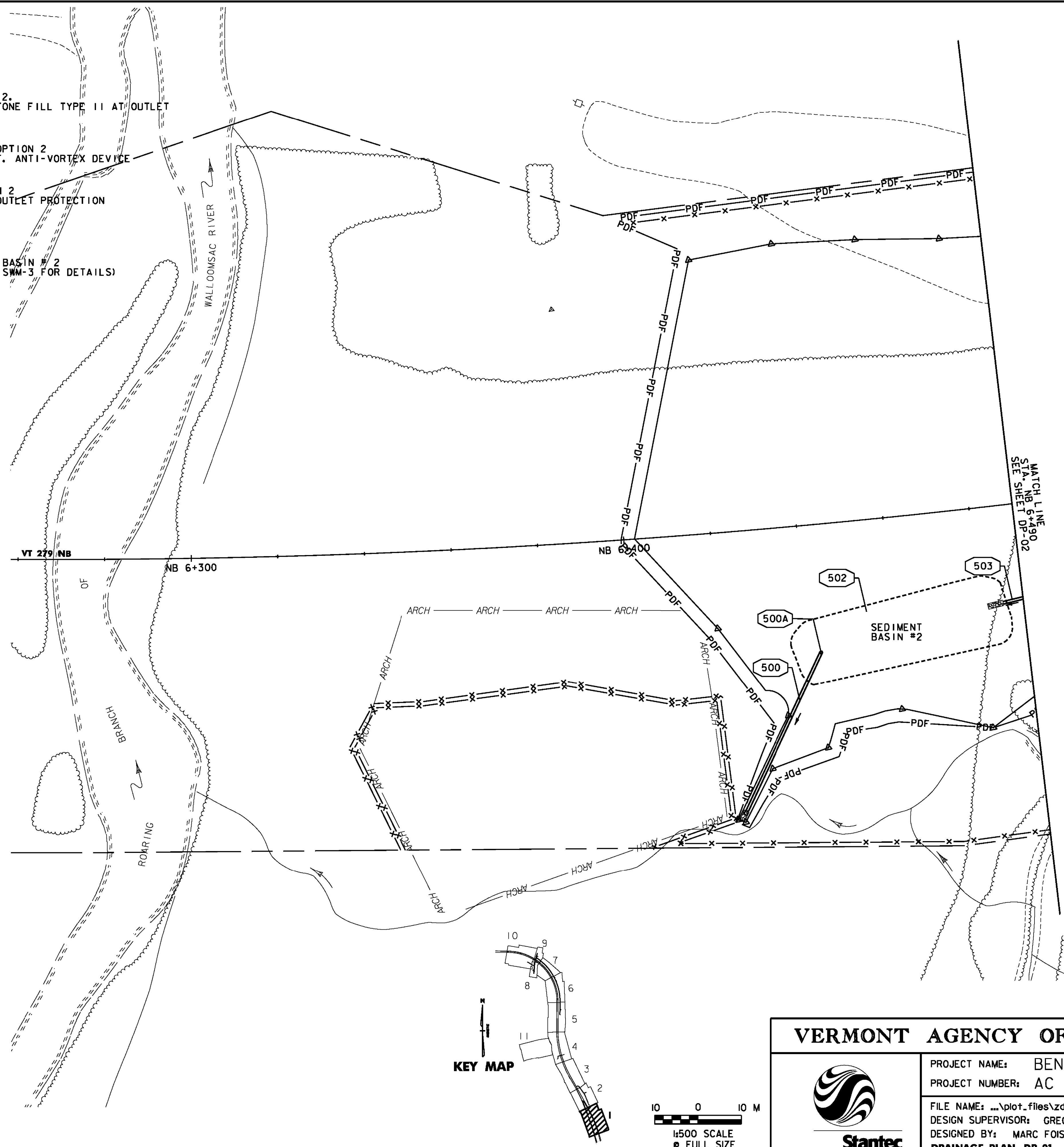
STORMWATER MANAGEMENT		
STRUCTURE #	LOCATION	COMMENTS
502	NB 6+436.3 - NB 6+485.0 RT	CONST. SEDIMENTATION BASIN # 2 (SEE SHEET SWM-2 AND SWM-3 FOR DETAILS)

NOTES:

1. SEE STORMWATER MANAGEMENT DETAILS SWM-5 FOR DIMENSIONS AND CONSTRUCTION DETAILS OF STONE OUTLET PROTECTION.
2. SEE STORMWATER MANAGEMENT DETAILS SHEETS 2 AND 3 FOR SEDIMENTATION BASIN CONSTRUCTION DETAILS
3. 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)
	PRECAST REINFORCED CONCRETE DROP INLET
	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



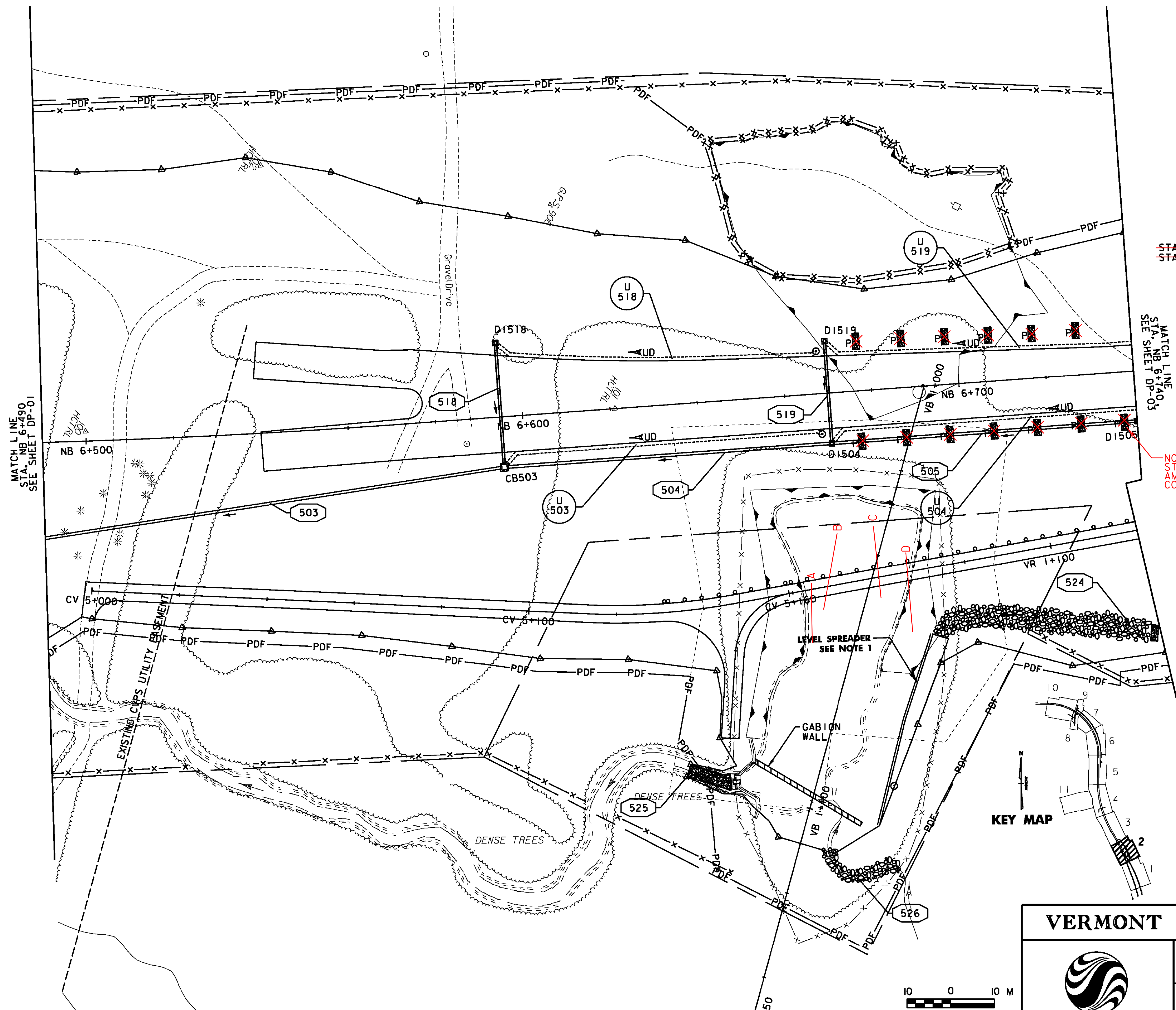
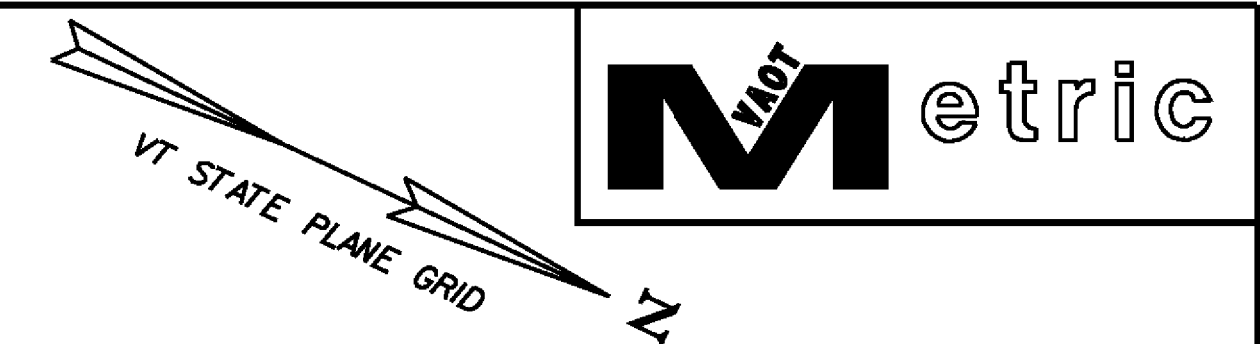
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	PROJECT NUMBER: AC NH 019-1(52)		
	FILE NAME: ...\\plot-files\zd307c2dp01.prf	PLOT DATE: 5/16/2011	
	DESIGN SUPERVISOR: GREG EDWARDS	DRAWN BY: STANTEC	
	DESIGNED BY: MARC FOISY	CHECKED BY: GARY SANTY	
	DRAINAGE PLAN DP-01	SHEET 81 OF 267	

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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

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



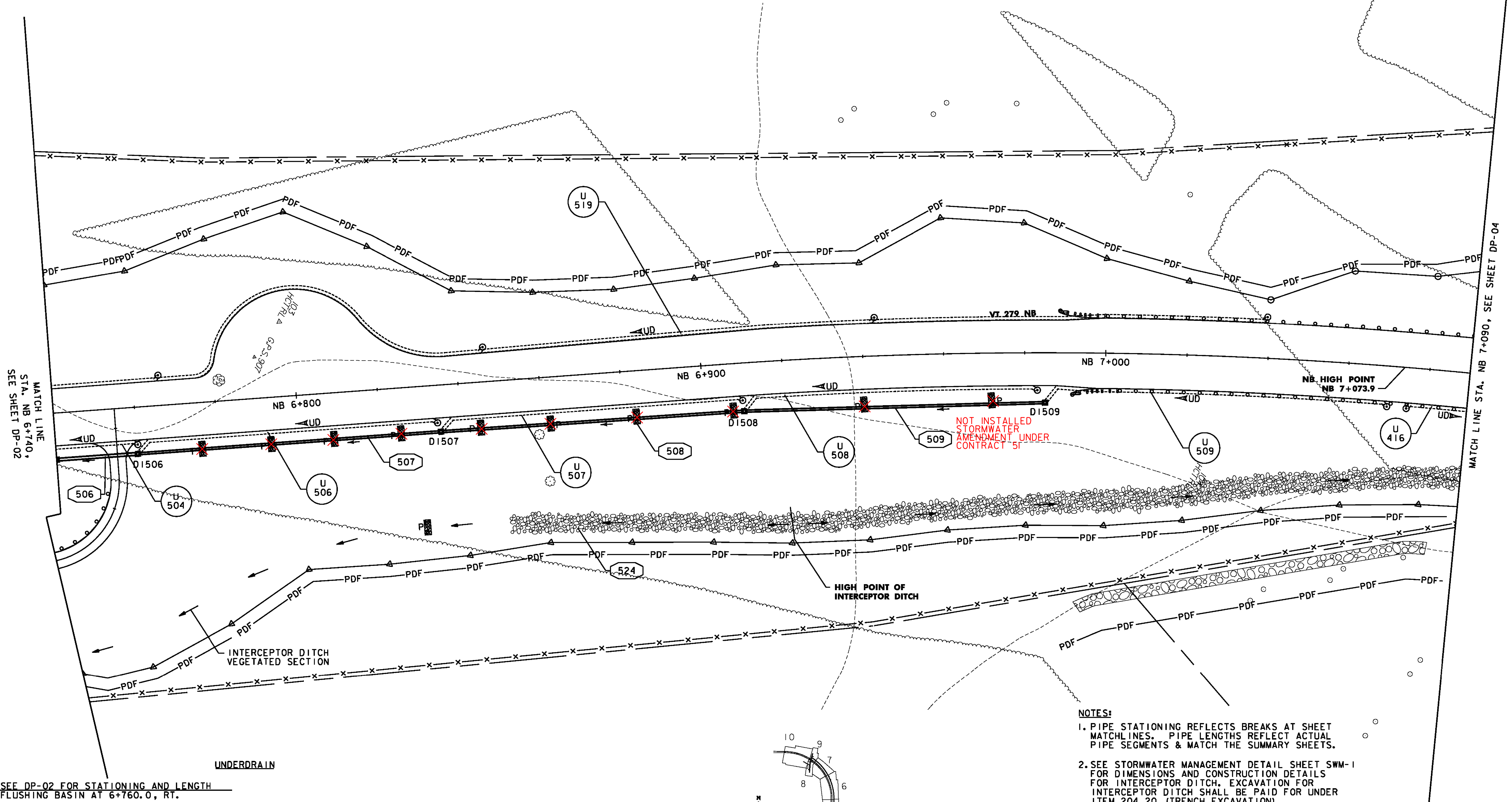
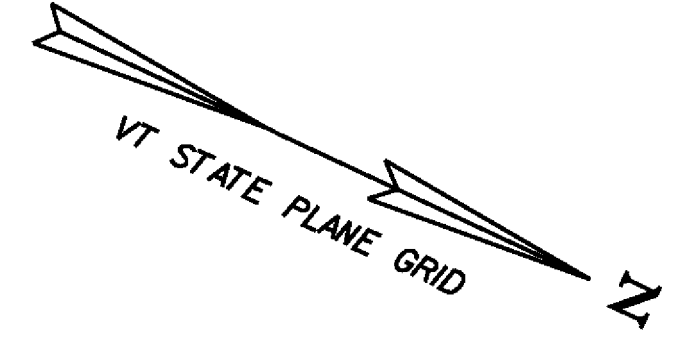
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PROJECT NUMBER:	AC NH 019-1(52)
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DESIGN SUPERVISOR:	GREG EDWARDS
DESIGNED BY:	MARC FOISY
DRAINAGE PLAN DP-02	
PLOT DATE:	5/16/2011
DRAWN BY:	STANTEC
CHECKED BY:	GARY SANTY
SHEET	82 OF 267

10 0 10 M
 1:500 SCALE
 @ FULL SIZE

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NEW DRAINAGE STRUCTURES			NEW DRAINAGE PIPES		
STRUCTURE #	LOCATION	COMMENTS	PIPE #	LOCATION	COMMENTS
D1506	NB 6+760.0 RT	TYPE A GRATE	506	NB 6+740.0 - NB 6+760.0 RT	600 X 19.4 m PIPE OPTION 3
D1507	NB 6+835.0 RT	TYPE A GRATE	507	NB 6+760.0 - NB 6+835.0 RT	600 X 74.4 m PIPE OPTION 3
D1508	NB 6+910.0 RT	TYPE A GRATE	508	NB 6+835.0 - NB 6+910.0 RT	450 X 74.4 m PIPE OPTION 3
D1509	NB 6+985.0 RT	TYPE A GRATE	509	NB 6+910.0 - NB 6+985.0 RT	450 X 73.6 m CPEP (SL)

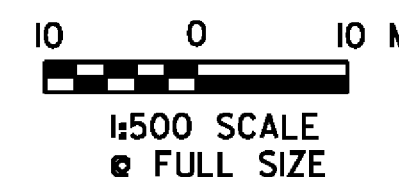
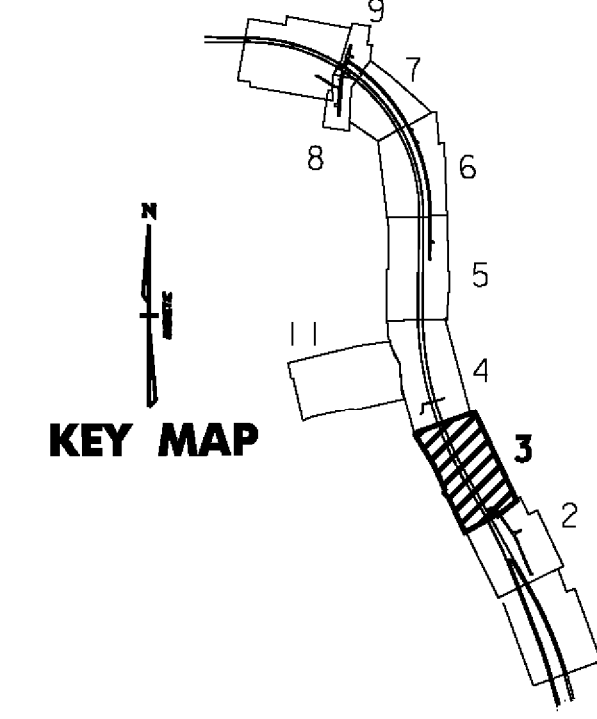
~~PERMANENT STONE CHECK DAMS, TYPE 1~~
~~STA. NB 6+775.161, 11.4m RT.~~ ~~STA. NB 6+970.930, 11.7m RT.~~
~~STA. NB 6+829.242, 34.8m RT.~~



- NOTES:**
1. PIPE STATIONING REFLECTS BREAKS AT SHEET MATCHLINES. PIPE LENGTHS REFLECT ACTUAL PIPE SEGMENTS & MATCH THE SUMMARY SHEETS.
 2. 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).

- UNDERDRAIN**
- 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



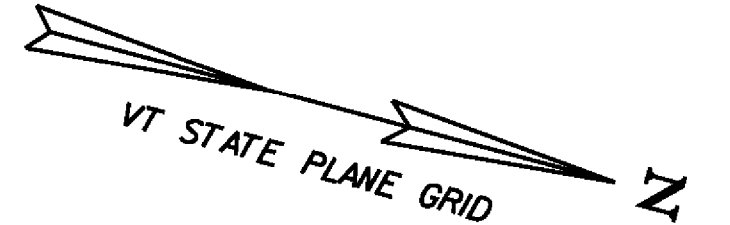
VERMONT AGENCY OF TRANSPORTATION			
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	PROJECT NUMBER: AC NH 019-1(52)		
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	DESIGN SUPERVISOR: GREG EDWARDS	DRAWN BY: STANTEC	
	DESIGNED BY: MARC FOISY	CHECKED BY: GARY SANTY	
	DRAINAGE PLAN DP-03	SHEET 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

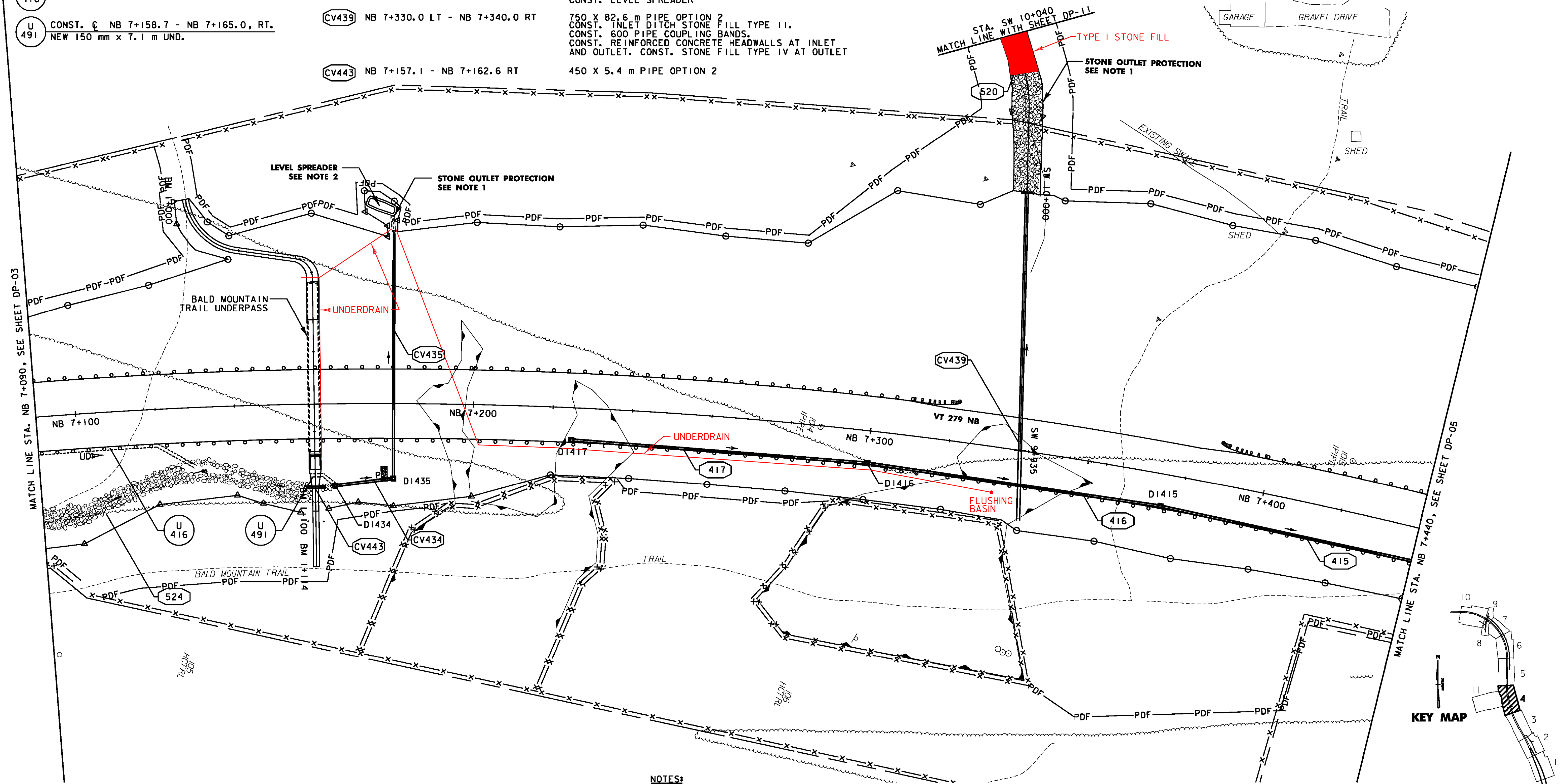
NEW DRAINAGE PIPES		
PIPE #	LOCATION	COMMENTS
415	NB 7+375.0 - NB 7+450.0 RT	450 X 73.8 m CPEP (SL)
416	NB 7+300.0 - NB 7+375.0 RT	450 X 73.8 m CPEP (SL)
417	NB 7+225.0 - NB 7+300.0 RT	450 X 73.8 m CPEP (SL)
CV434	NB 7+165.0 - NB 7+180.0 RT	450 X 14.2 m CPEP (SL)
CV435	NB 7+180.0 LT-RT	450 X 61.6 m PIPE 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.

10 0 10 M
1:500 SCALE
e FULL SIZE

VERMONT AGENCY OF TRANSPORTATION



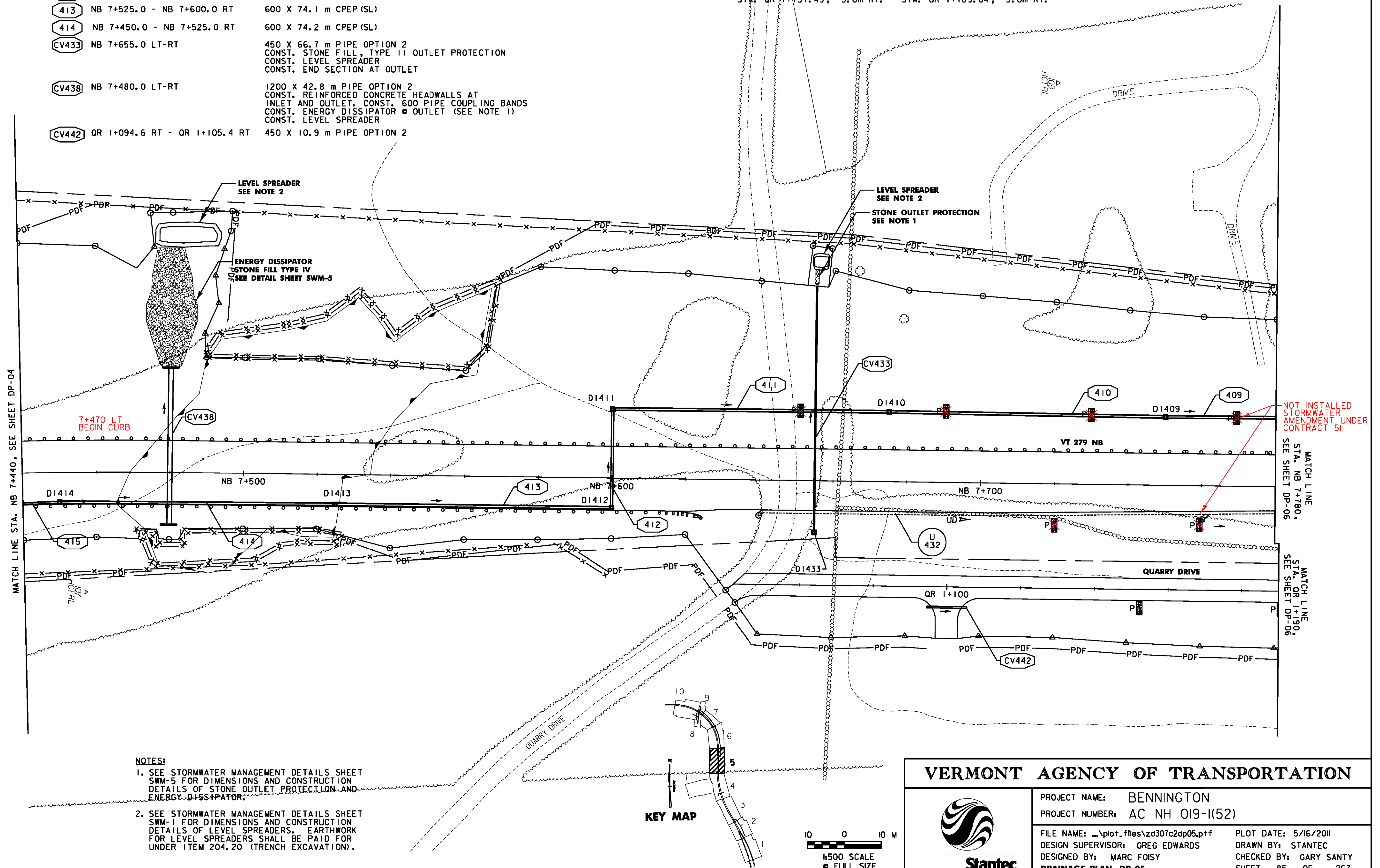
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PROJECT NUMBER:	AC NH 019-1(52)
FILE NAME:	...plot-files\zd307c2dp04.ppt
DESIGN SUPERVISOR:	GREG EDWARDS
DRAWN BY:	STANTEC
DESIGNED BY:	MARC FOISY
CHECKED BY:	GARY SANTY
DRAINAGE PLAN	DP-04
PLOT DATE:	5/16/2011
SHEET	84 OF 267

NEW DRAINAGE PIPES		
PIPE #	LOCATION	COMMENTS
409	NB 7+750.0 - NB 7+825.0 LT	600 X 73.0 m PIPE OPTION 1
410	NB 7+675.0 - NB 7+750.0 LT	600 X 74.4 m PIPE OPTION 1
411	NB 7+600.0 - NB 7+675.0 LT	600 X 74.4 m PIPE OPTION 1
412	NB 7+600.0 LT-RT	600 X 26.0 m CPEP (SL)
413	NB 7+525.0 - NB 7+600.0 RT	600 X 74.1 m CPEP (SL)
414	NB 7+450.0 - NB 7+525.0 RT	600 X 74.2 m CPEP (SL)
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
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

NEW DRAINAGE STRUCTURES		
STRUCTURE #	LOCATION	COMMENTS
D1409	NB 7+750.0 LT	TYPE A GRATE
D1410	NB 7+675.0 LT	TYPE A GRATE
D1411	NB 7+600.0 LT	TYPE A GRATE
D1412	NB 7+600.0 RT	TYPE A GRATE
D1413	NB 7+525.0 RT	TYPE A GRATE
D1414	NB 7+450.0 RT	TYPE A GRATE
D1433	NB 7+655.0 RT	TYPE A GRATE

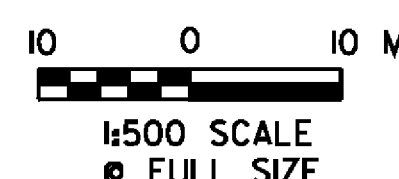
UNDERDRAIN	
U 432	CONST. NB 7+640.0 - NB 7+850. RT. NEW 150 mm x 206.9 m UND. W/FLUSHING BASINS @ NB 7+640.0, RT., NB 7+760. RT.

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.



- 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).

KEY MAP



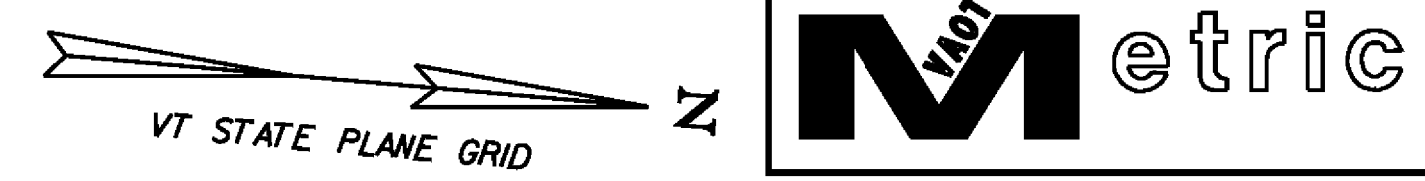
VERMONT AGENCY OF TRANSPORTATION



PROJECT NAME: BENNINGTON	
PROJECT NUMBER: AC NH 019-1(52)	
FILE NAME: ...plot-files\zd307c2dp05.prf	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

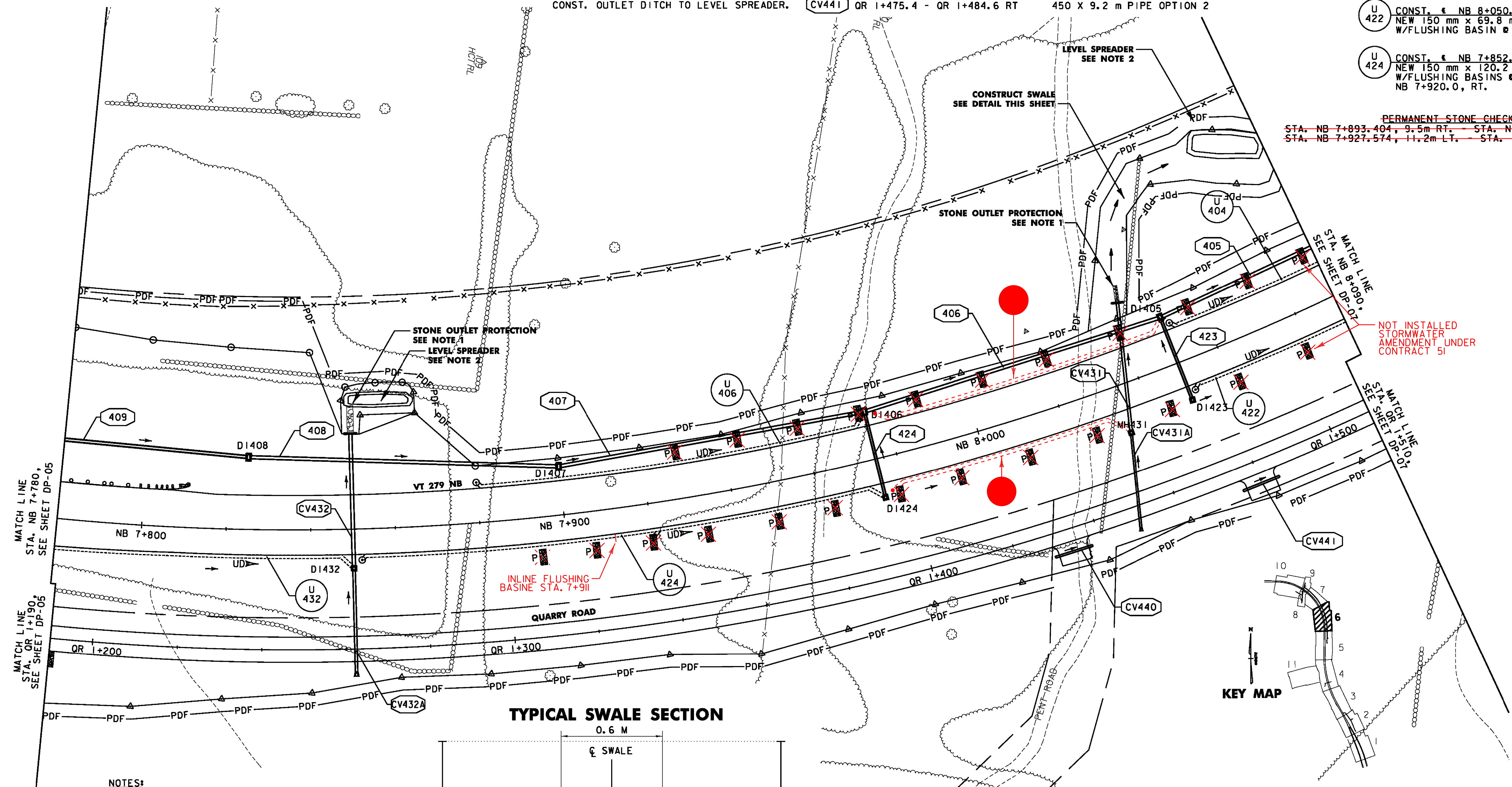
NEW DRAINAGE STRUCTURES			NEW DRAINAGE PIPES		
STRUCTURE #	LOCATION	COMMENTS	PIPE #	LOCATION	COMMENTS
D1405	NB 8+050.0 LT	1200x1800 TYPE B GRATE (1)	405	NB 8+050.0 - NB 8+125.0 LT	750 X 72.9 m PIPE OPTION 2
D1406	NB 7+975.0 LT	1200x1800 TYPE B GRATE (1)	406	NB 7+975.0 LT - NB 8+050.0 LT	750 X 72.9 m 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	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 II AT OUTLET CONST. OUTLET DITCH TO LEVEL SPREADER.

NEW DRAINAGE PIPES			NEW DRAINAGE PIPES		
PIPE #	LOCATION	COMMENTS	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 II 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.

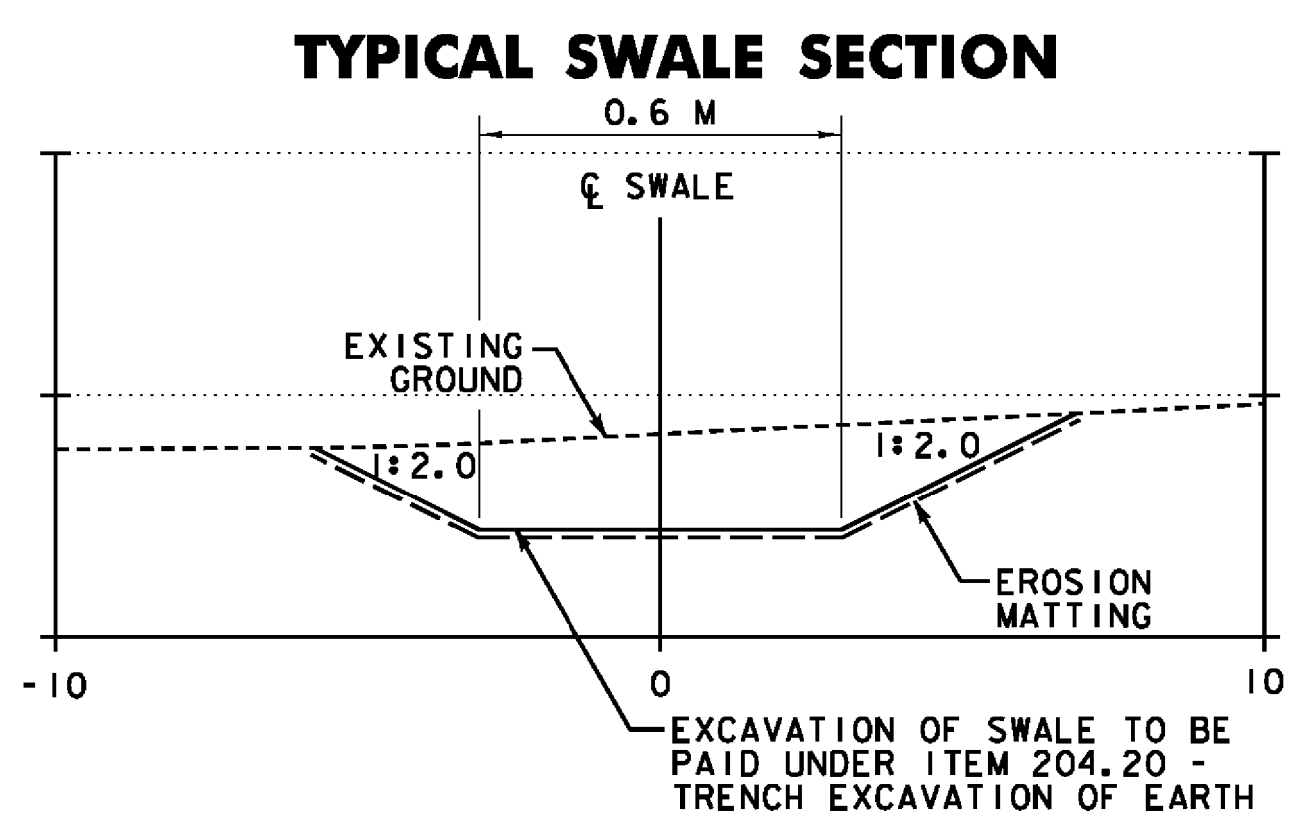
~~PERMANENT STONE CHECK DAMS, TYPE I~~
~~STA. NB 7+893.404, 9.5m RT.~~ ~~STA. NB 8+078.276, 9.2m RT.~~
~~STA. NB 7+927.574, 11.2m LT.~~ ~~STA. NB 8+086.472, 11.8m LT.~~



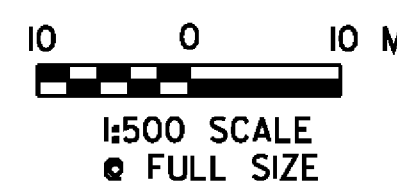
MATCH LINE
STA. NB 7+780.0
SEE SHEET DP-05

MATCH LINE
STA. QR 1+190.0
SEE SHEET DP-05

NOT INSTALLED
STORMWATER
AMENDMENT UNDER
CONTRACT 51



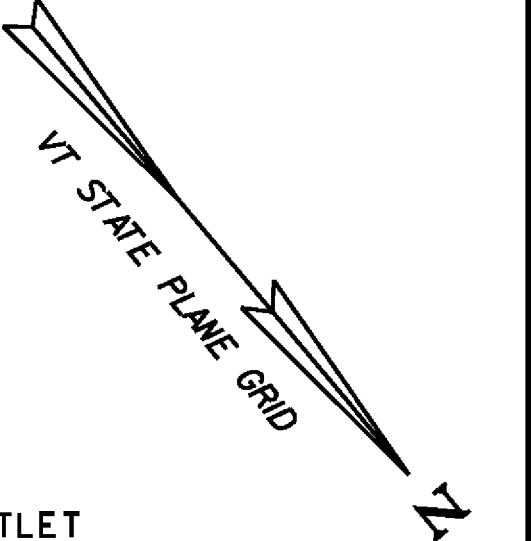
- NOTES:**
1. SEE STORMWATER MANAGEMENT DETAILS SHEET SWM-5 FOR DIMENSIONS AND CONSTRUCTION DETAILS OF STONE OUTLET PROTECTION.
 2. SEE STORMWATER MANAGEMENT DETAIL SHEET SWM-1 FOR DIMENSIONS AND CONSTRUCTION DETAILS OF LEVEL SPREADERS. EARTHWORK FOR LEVEL SPREADERS SHALL BE PAID FOR UNDER ITEM 204.20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



VERMONT AGENCY OF TRANSPORTATION



PROJECT NAME: BENNINGTON
 PROJECT NUMBER: AC NH 019-1(52)
 FILE NAME: ...\\plot-files\\zd307c2dp06.prf
 DESIGN SUPERVISOR: GREG EDWARDS
 DESIGNED BY: MARC FOISY
 DRAINAGE PLAN DP-06
 PLOT DATE: 5/16/2011
 DRAWN BY: STANTEC
 CHECKED BY: GARY SANTY
 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	PRCCD1
PRCCD1429	NB 8+260.0 LT	PRCCD1
MH430	NB 8+187.0 RT	COVER ("STORM" CAST INTO TOP SURFACE)

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.

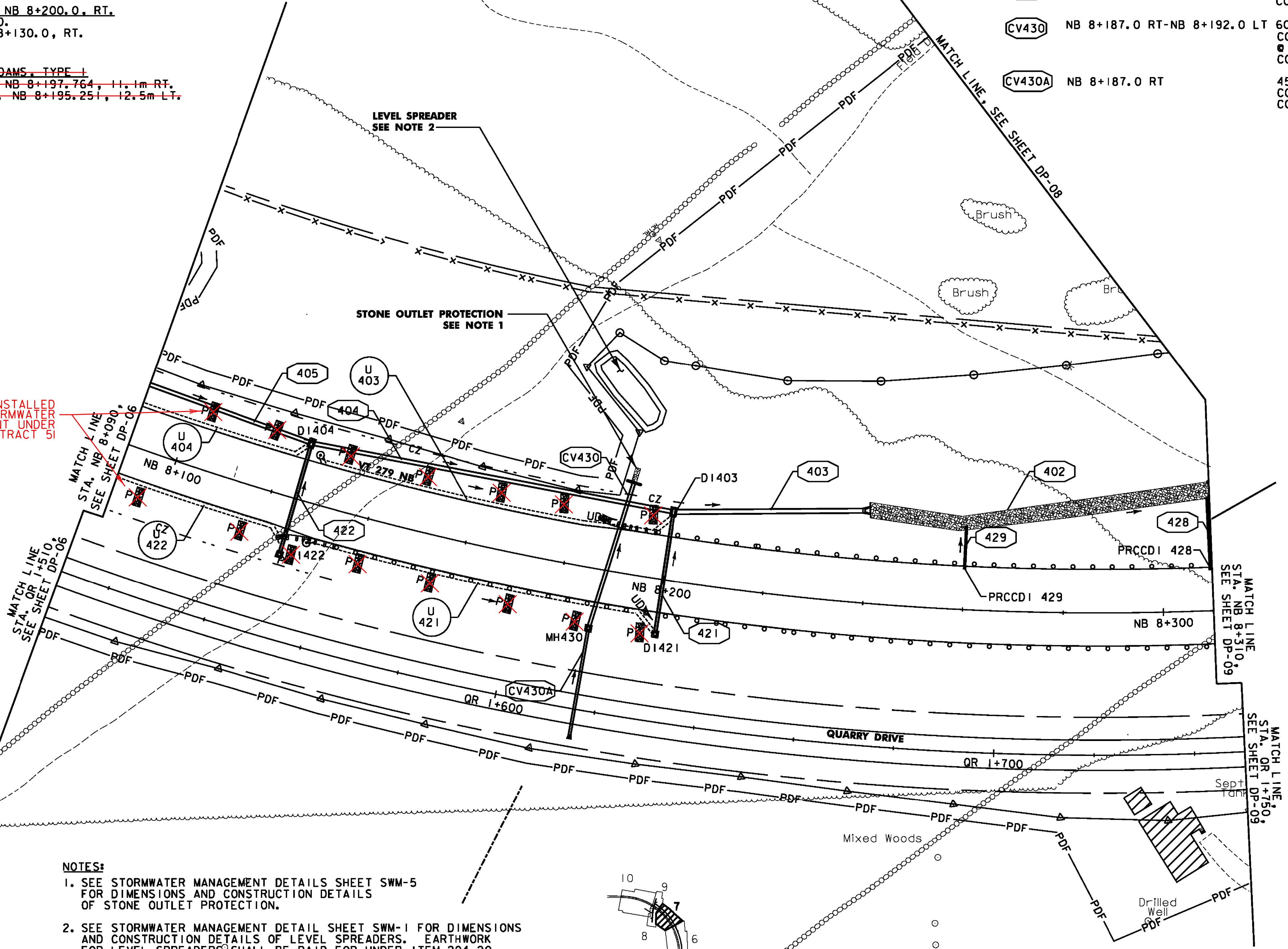
U 421 CONST. NB 8+130.0 - NB 8+200.0, RT.
NEW 150 mm x 69.1 m UND.
W/FLUSHING BASIN @ NB 8+130.0, RT.

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

~~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.~~

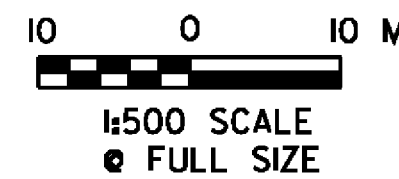
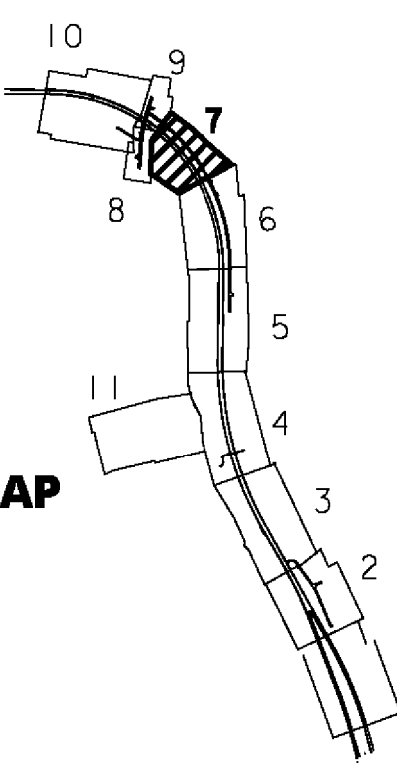
NOT INSTALLED
STORMWATER
AMENDMENT UNDER
CONTRACT 51



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

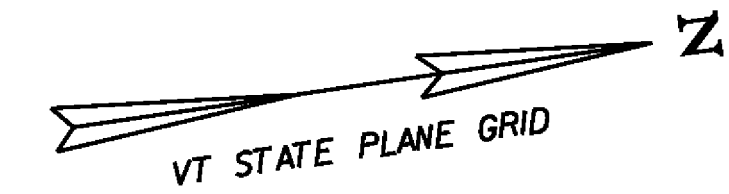
KEY MAP



VERMONT AGENCY OF TRANSPORTATION



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



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

~~PERMANENT STONE CHECK DAMS, TYPE 1~~
~~STA. NB 8+375.133, 27.1m LT. STA. NB 8+384.213, 27.2m LT.~~

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

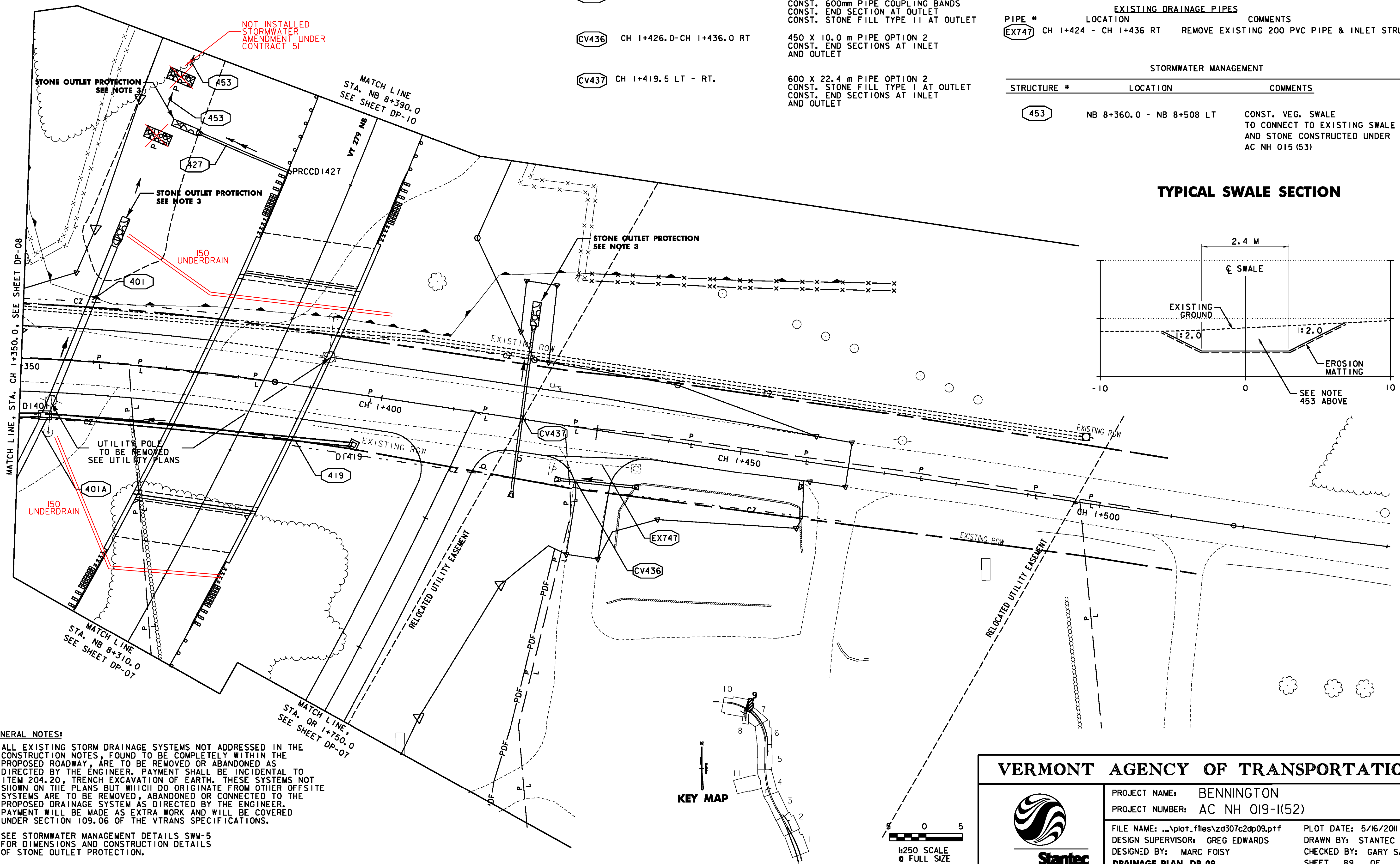
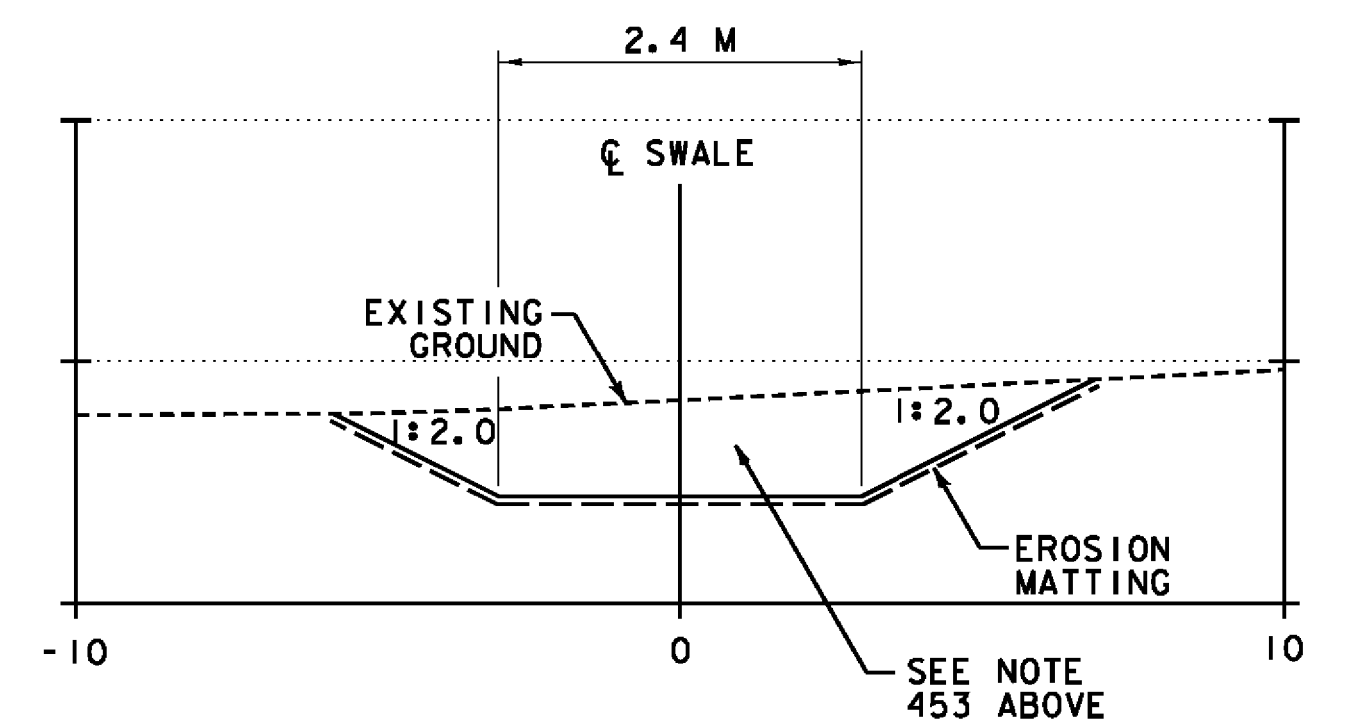
EXISTING DRAINAGE PIPES

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

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)

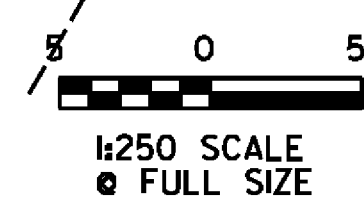
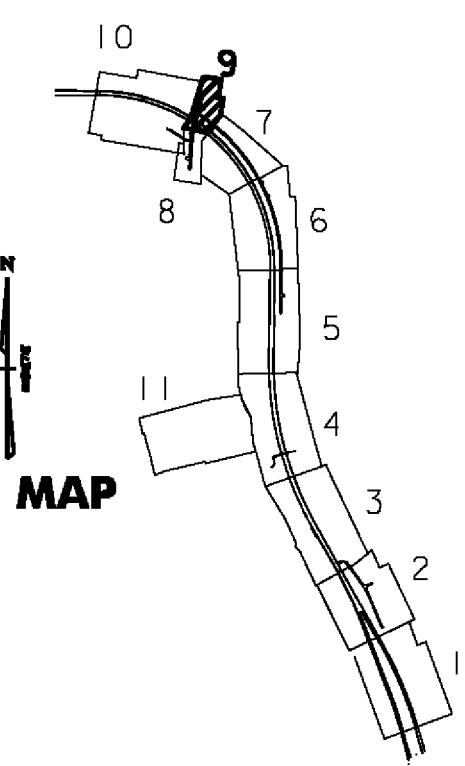
TYPICAL SWALE SECTION



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



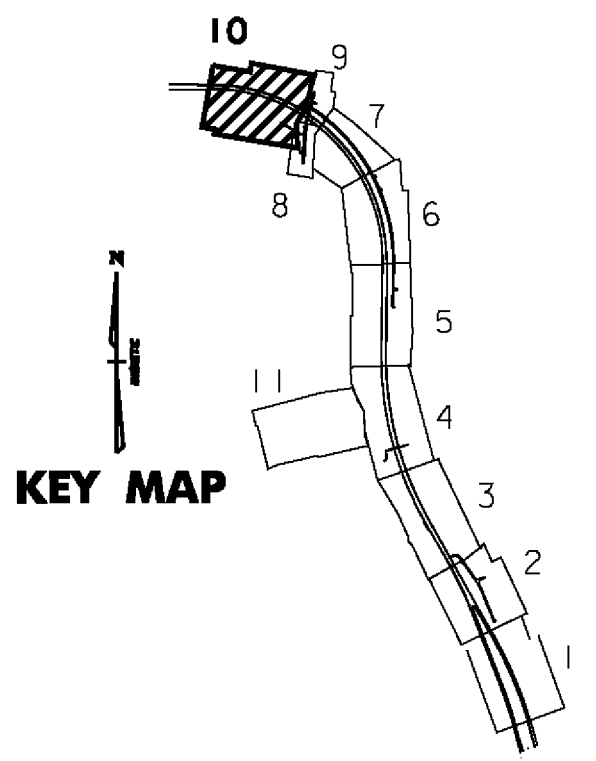
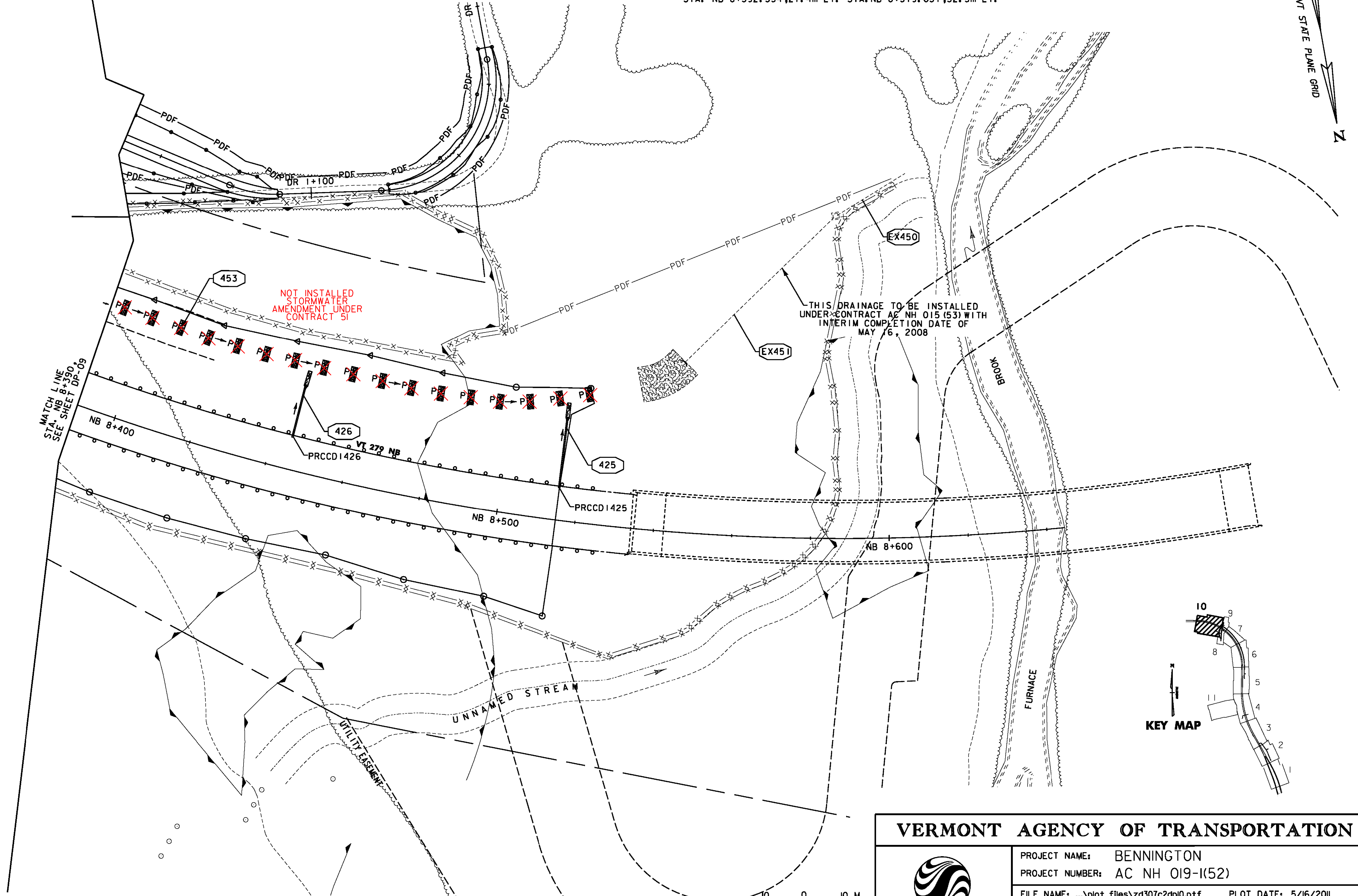
NEW DRAINAGE STRUCTURES		
STRUCTURE #	LOCATION	COMMENTS
PRCCD1425	NB 8+515.0 LT	PRCCD1
PRCCD1426	NB 8+445.0 LT	PRCCD1

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)

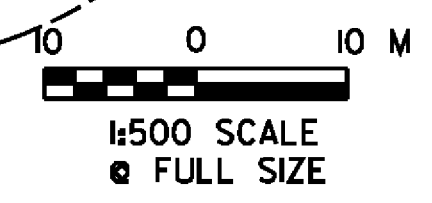
~~PERMANENT STONE CHECK DAMS, TYPE I~~
~~STA. NB 8+392.354+27.4m LT. STA. NB 8+519.031+32.5m LT.~~



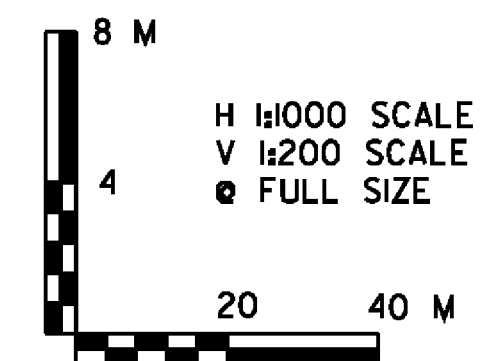
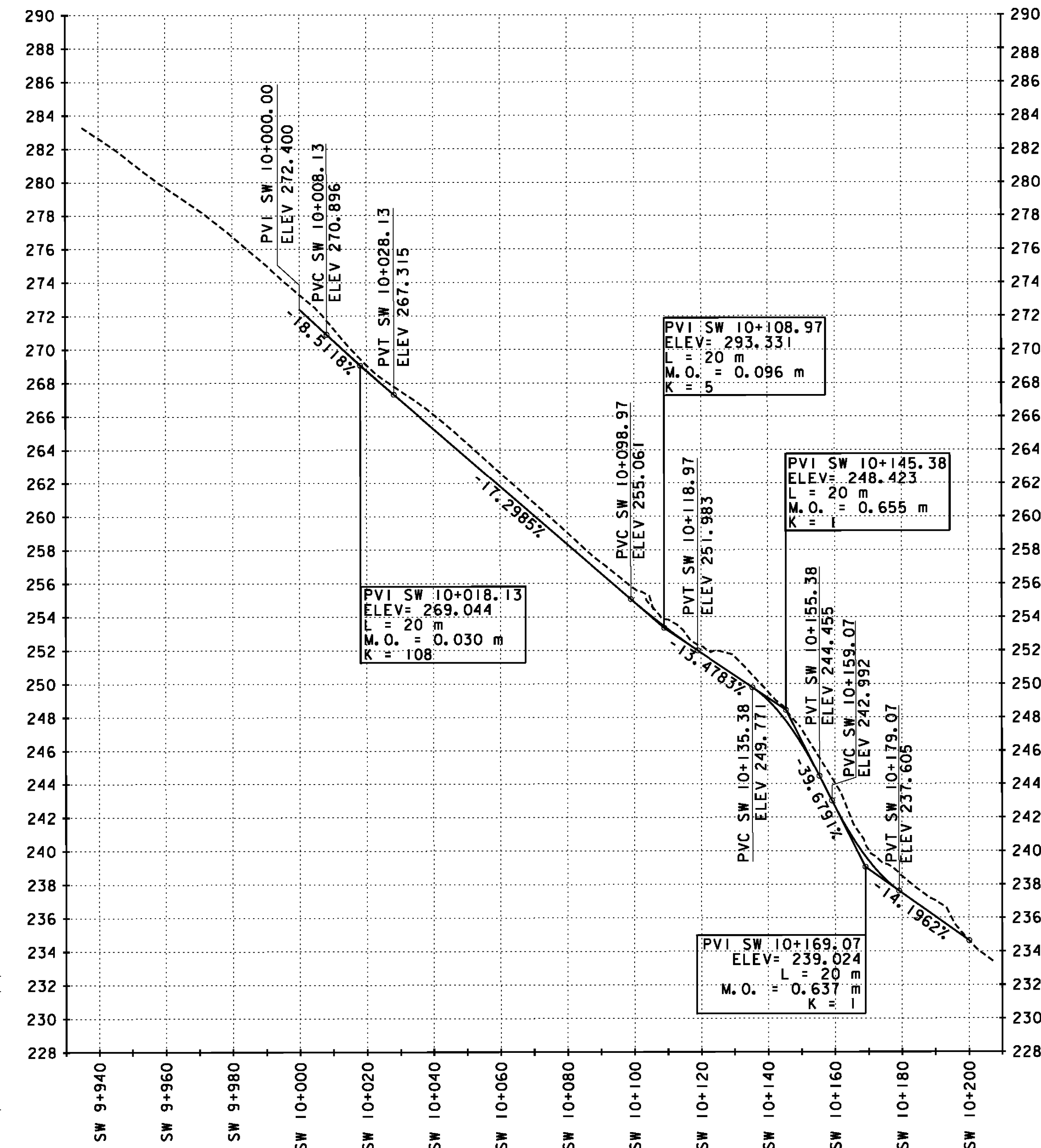
VERMONT AGENCY OF TRANSPORTATION



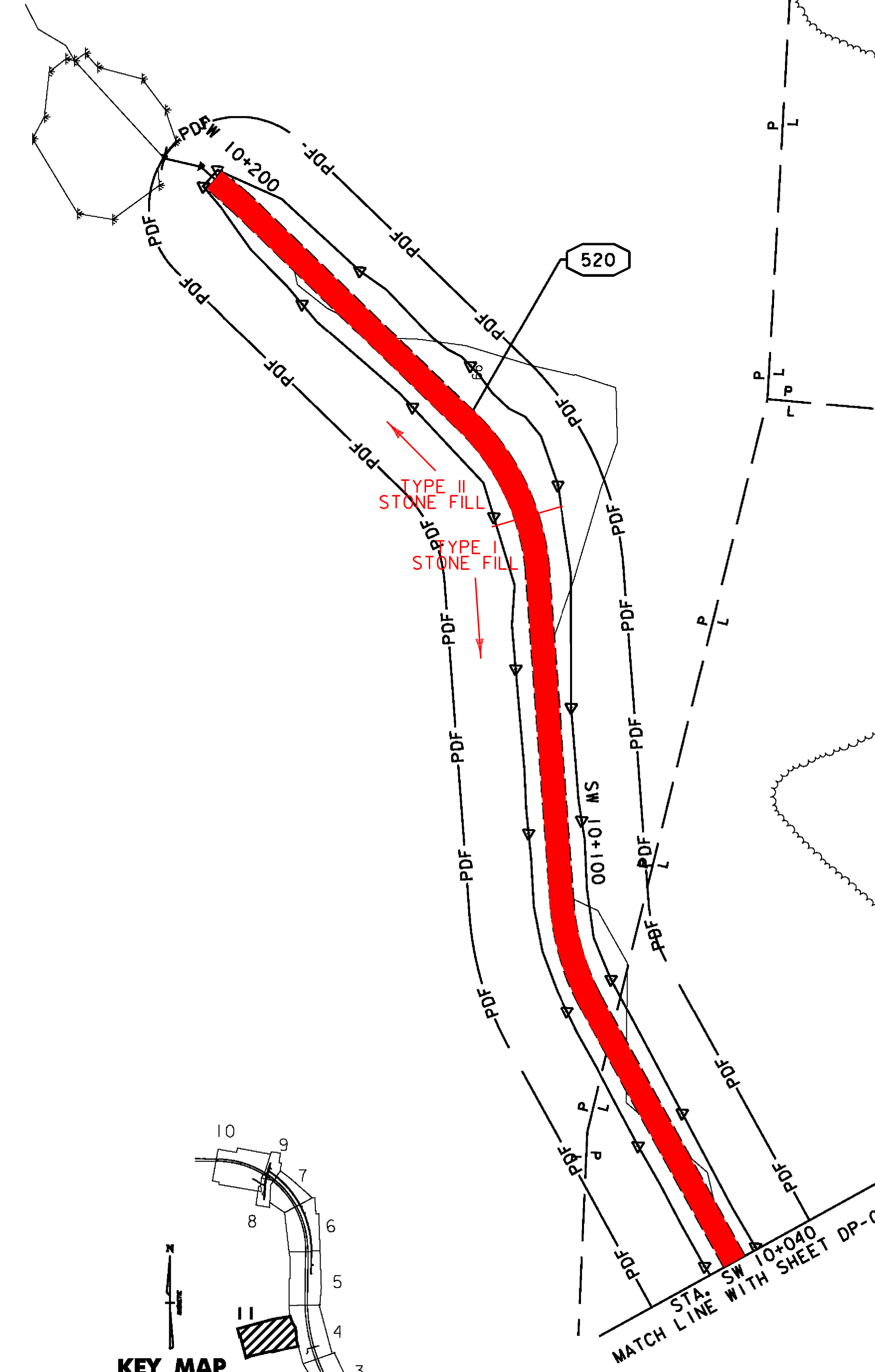
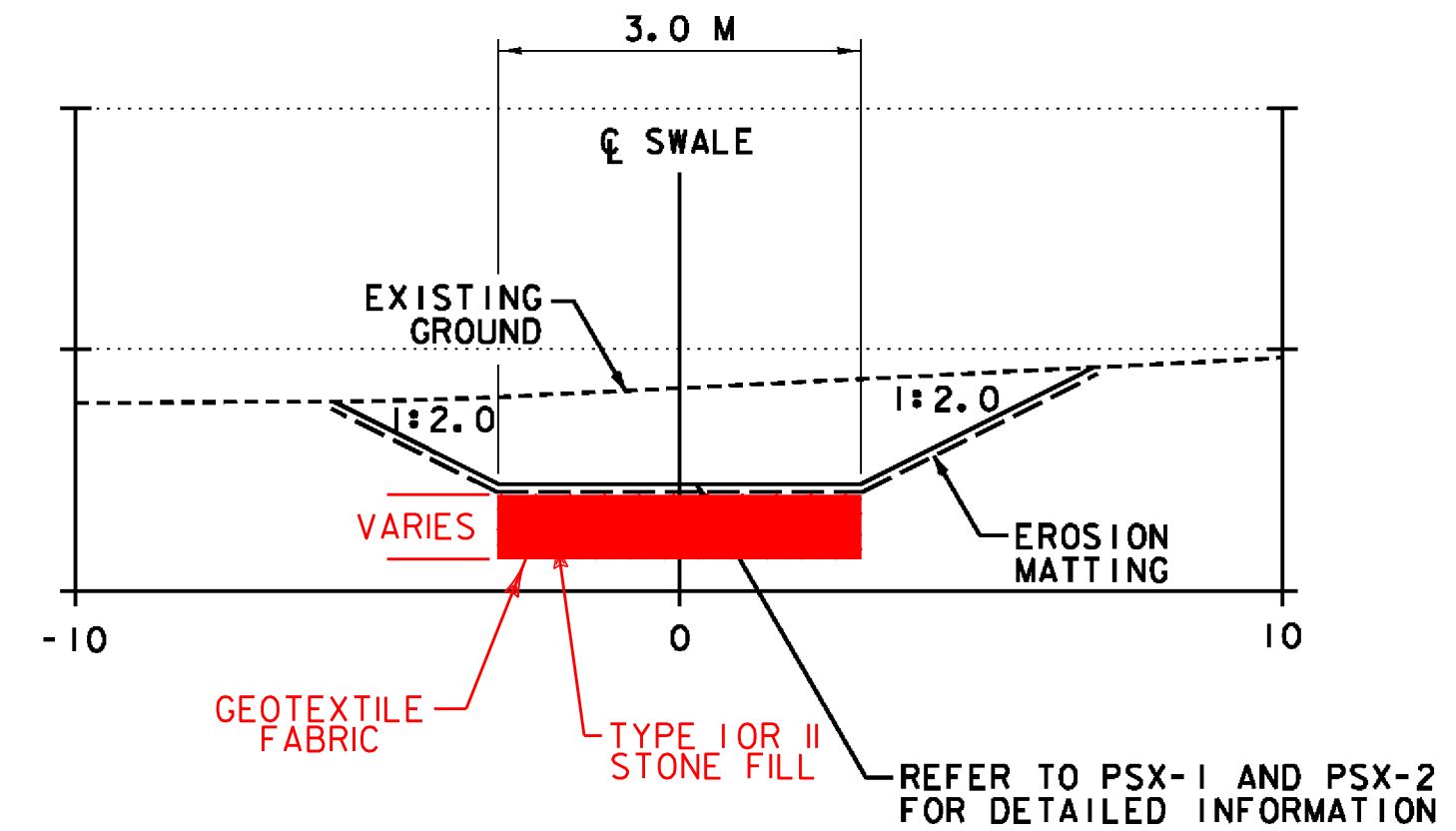
PROJECT NAME: BENNINGTON	
PROJECT NUMBER: AC NH 019-1(52)	
FILE NAME: ...\\plot-files\\zd307c2dpi0.ppf	PLOT DATE: 5/16/2011
DESIGN SUPERVISOR: GREG EDWARDS	DRAWN BY: STANTEC
DESIGNED BY: MARC FOISY	CHECKED BY: GARY SANTY
DRAINAGE PLAN DP-10	SHEET 90 OF 267



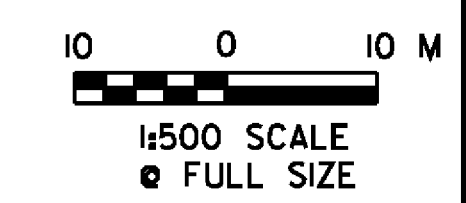
SWALE PROFILE



TYPICAL SWALE SECTION

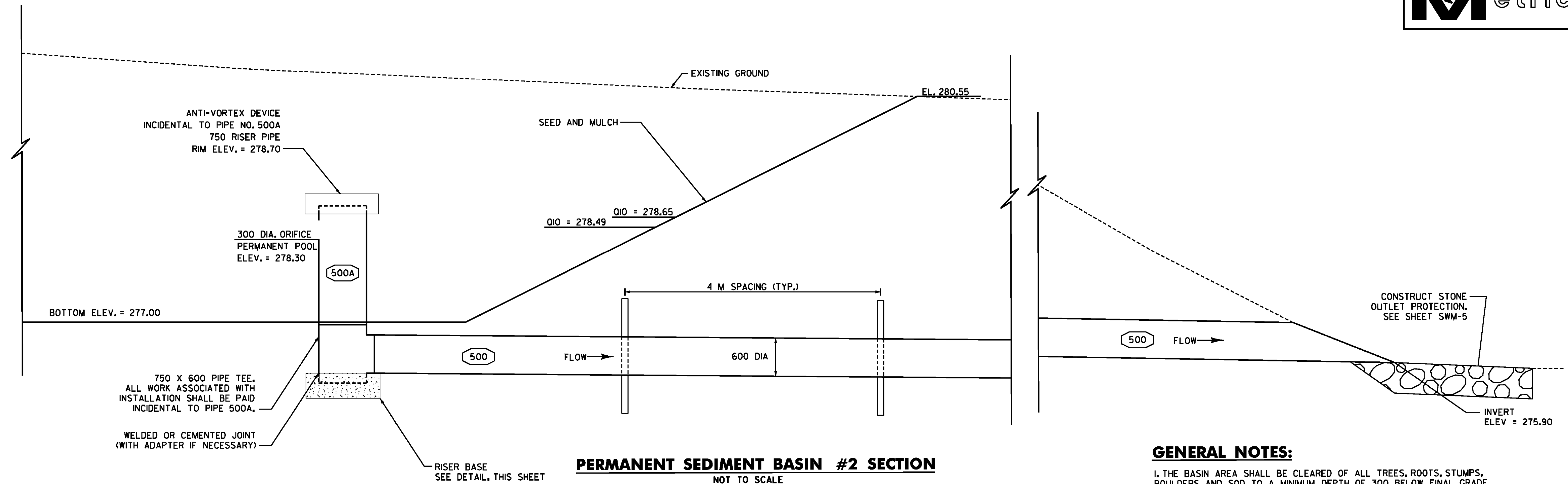


KEY MAP



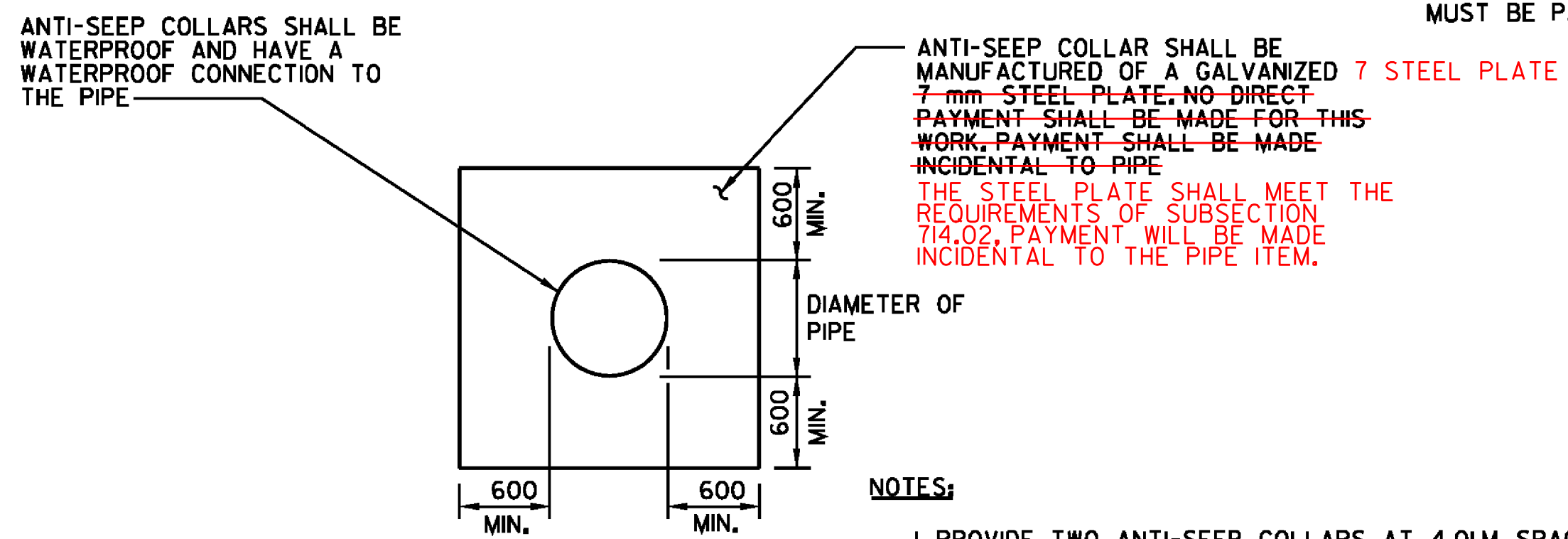
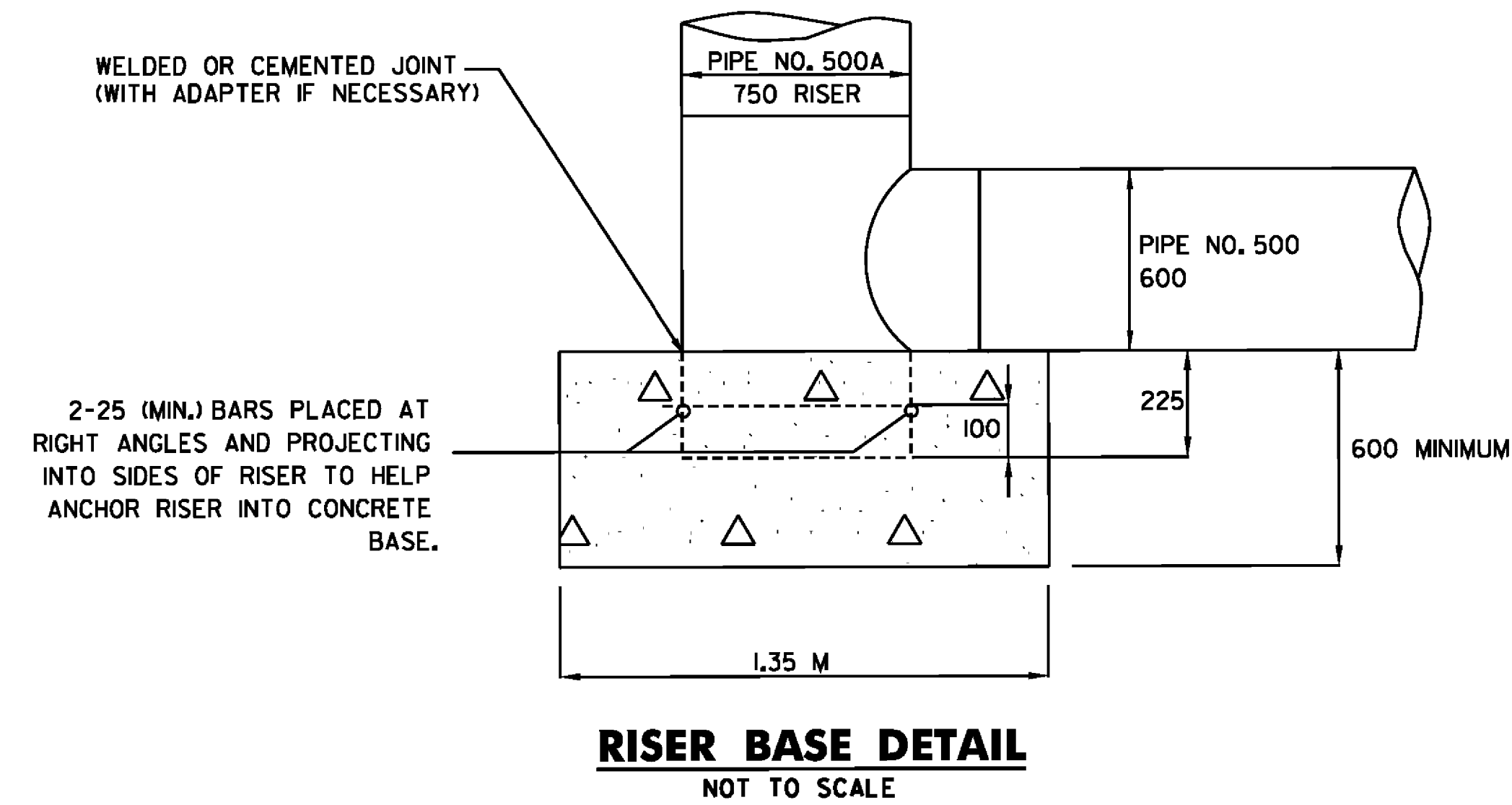
VERMONT AGENCY OF TRANSPORTATION

	PROJECT NAME: BENNINGTON	
	PROJECT NUMBER: AC NH 019-1(52)	
	FILE NAME: ...\\plot-files\\zd307c2dpl.pdf	PLOT DATE: 5/16/2011
	DESIGN SUPERVISOR: GREG EDWARDS	DRAWN BY: STANTEC
DESIGNED BY: MARC FOISY		CHECKED BY: GARY SANTY
DRAINAGE PLAN DP-11		SHEET 91 OF 267



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 201.10 - 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.



NOTES:

1. PROVIDE TWO ANTI-SEEP COLLARS AT 4.01M 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.

ANTI-SEEP COLLAR DETAIL

NOT TO SCALE

VERMONT AGENCY OF TRANSPORTATION

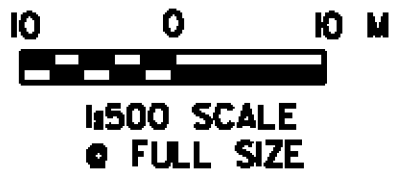


PROJECT NAME: BENNINGTON
PROJECT NUMBER: AC NH 019-1(52)

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

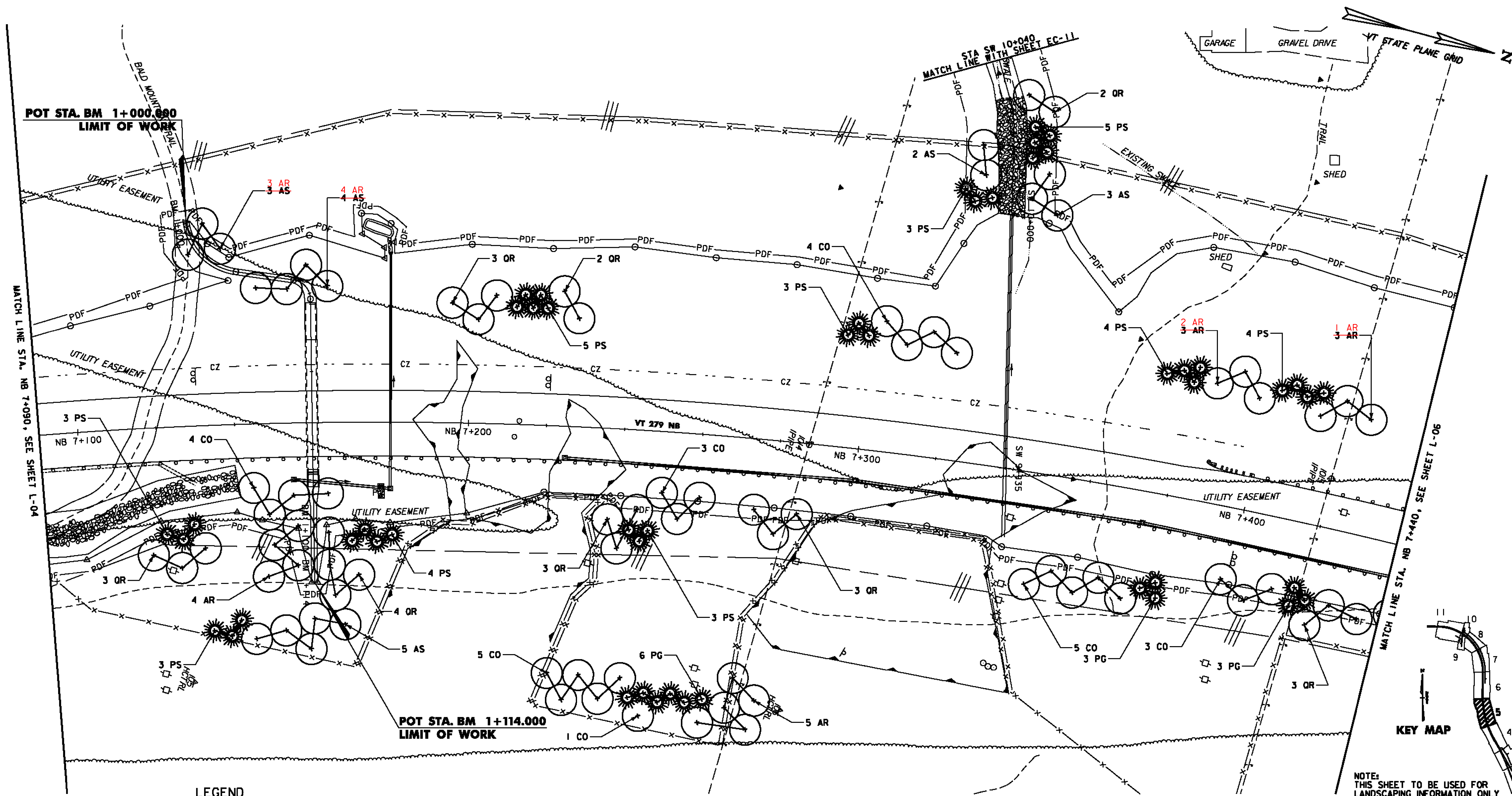


AMC.OI (9)			EXISTING DECIDUOUS TREE
	DECIDUOUS SHRUB GROUPING WITH PLANT TYPE AND (QUANTITY)		EXISTING EVERGREEN TREE
RO.OI (3)			TOE OF SLOPE
	DECIDUOUS TREE GROUPING WITH PLANT TYPE AND (QUANTITY)		LIMIT OF CUT
CO.OI (4)			APPROXIMATE ULTIMATE TOE OF SLOPE
	EVERGREEN TREE GROUPING WITH PLANT TYPE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



**DuBois
& King^{INC.}**

PROJECT NAME:	BENNINGTON - NORTH		
PROJECT NUMBER:	BENNINGTON AC NH 019-1(52)		
FILE NAME:	\\DGN\zd307c2p03.p1f	PLOT DATE:	12/10/2007
DESIGN SUPERVISOR:	J. BENSON	DRAWN BY:	E. SMALL
DESIGNED BY:	J. STEELE/C. BRODIE	CHECKED BY:	J. STEELE
LANDSCAPE PLAN	L-04	SHEET	143 OF



KEY MAP

NOTE: THIS SHEET TO BE USED FOR LANDSCAPING INFORMATION ONLY

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. |

10 0 10 M
1:500 SCALE
@ FULL SIZE

VERMONT AGENCY OF TRANSPORTATION

DuBois & King

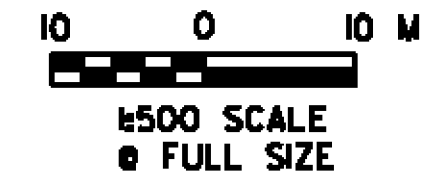
PROJECT NAME:	BENNINGTON - NORTH
PROJECT NUMBER:	BENNINGTON AC NH 019-(52)
FILE NAME:	\\DGN\zd307c2p04.p1f
DESIGN SUPERVISOR:	J. BENSON
DESIGNED BY:	J. STEELE/C. BRODIE
LANDSCAPE PLAN	L-05
PLOT DATE:	12/10/2007
DRAWN BY:	E. SMALL
CHECKED BY:	J. STEELE
SHEET	144 OF



LEGEND

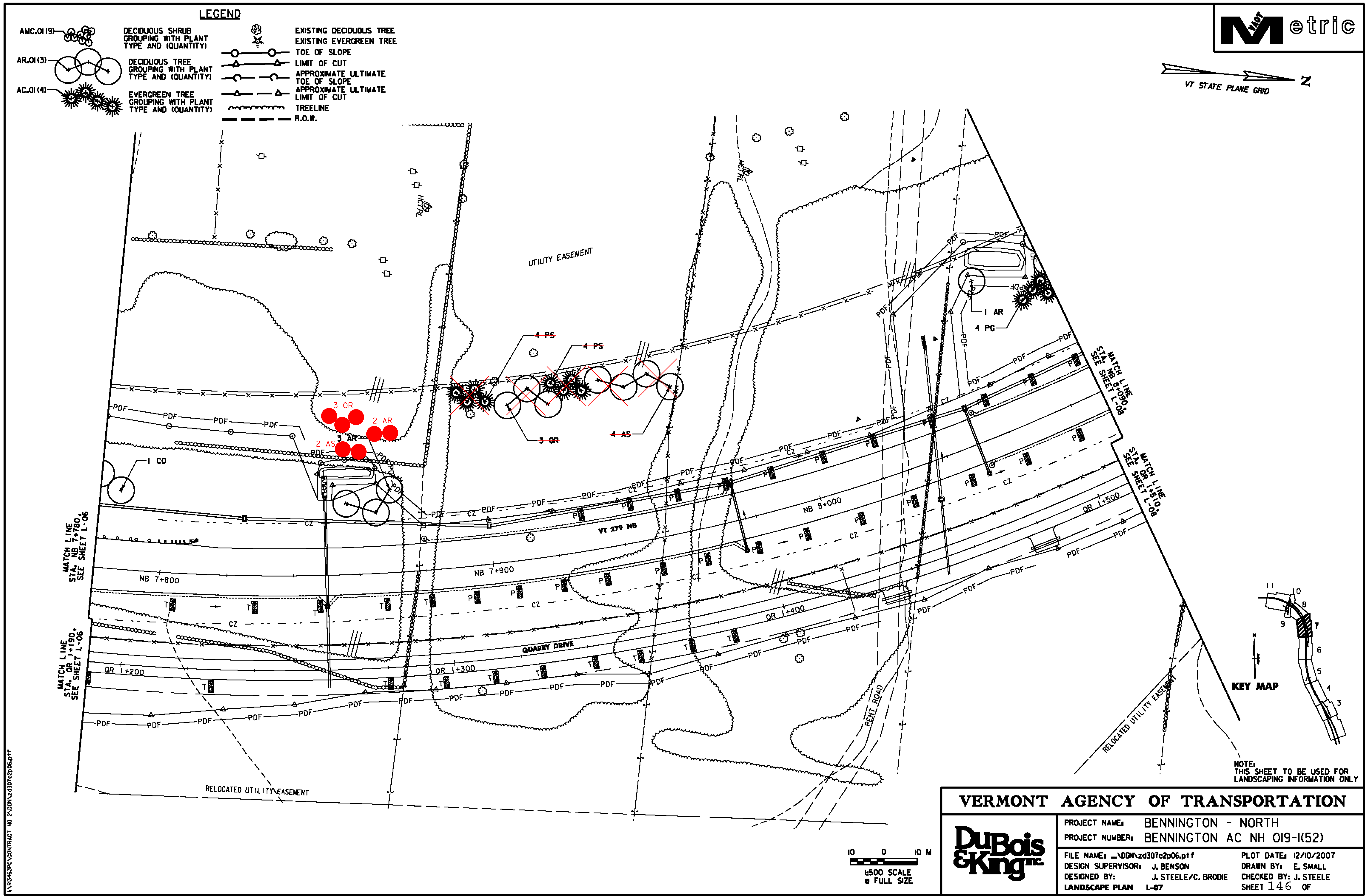
- | | | | |
|---|---|---|---|
| <p>AMC.OI(9)</p> <p>DECIDUOUS SHRUB GROUPING WITH PLANT TYPE AND (QUANTITY)</p> | <p>AR.OI(3)</p> <p>DECIDUOUS TREE GROUPING WITH PLANT TYPE AND (QUANTITY)</p> | <p>AC.OI(4)</p> <p>EVERGREEN TREE GROUPING WITH PLANT TYPE AND (QUANTITY)</p> | <p></p> <p>EXISTING DECIDUOUS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

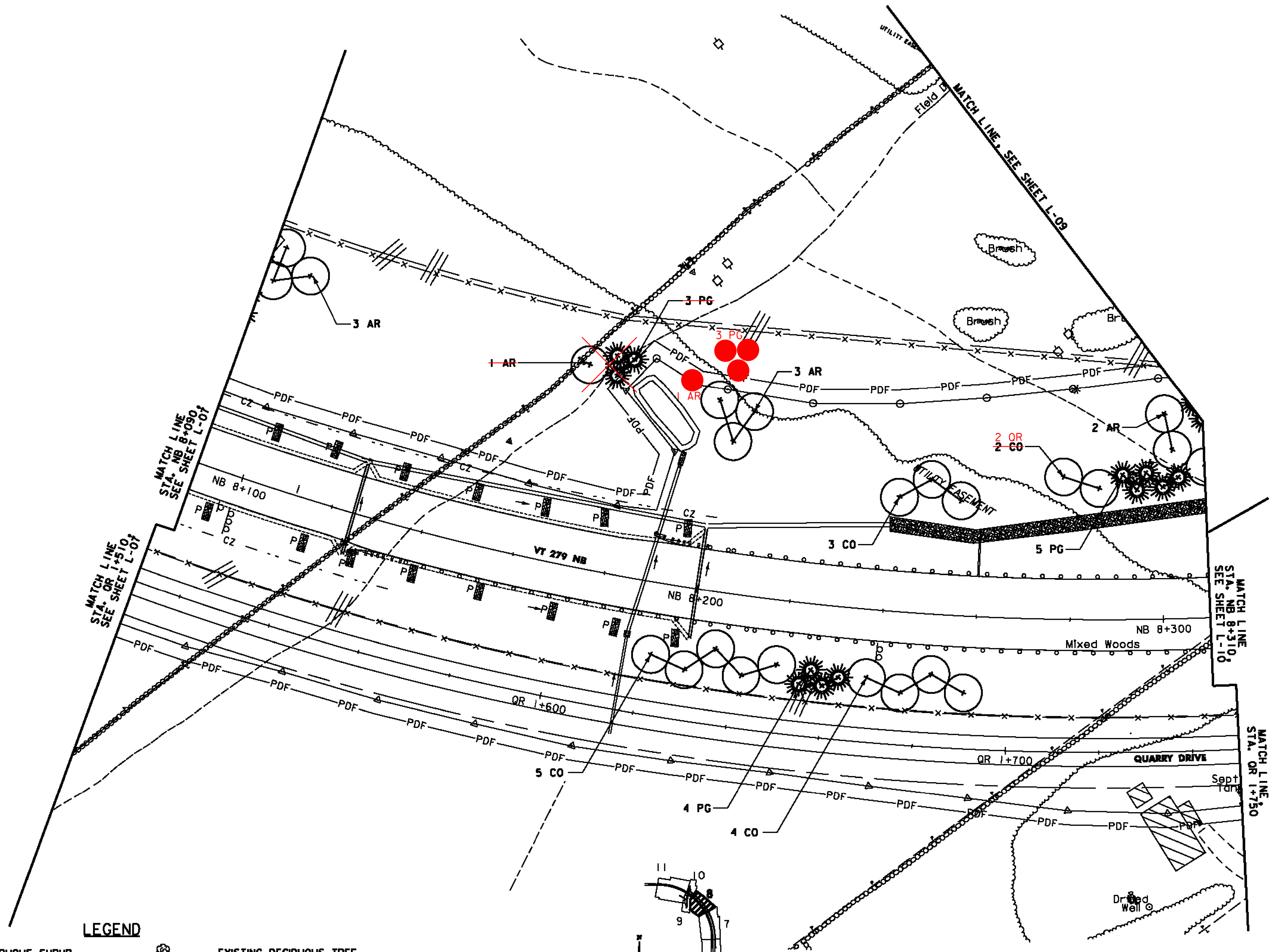
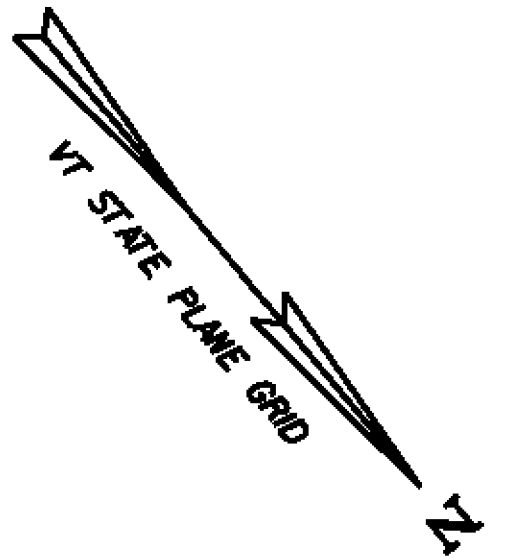
POT STA. QR 1+042.037
LIMIT OF WORK



NOTE: THIS SHEET IS TO BE USED FOR LANDSCAPING INFORMATION ONLY

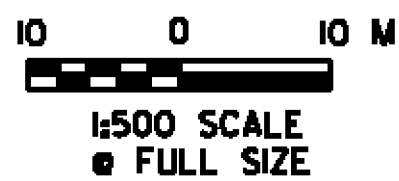
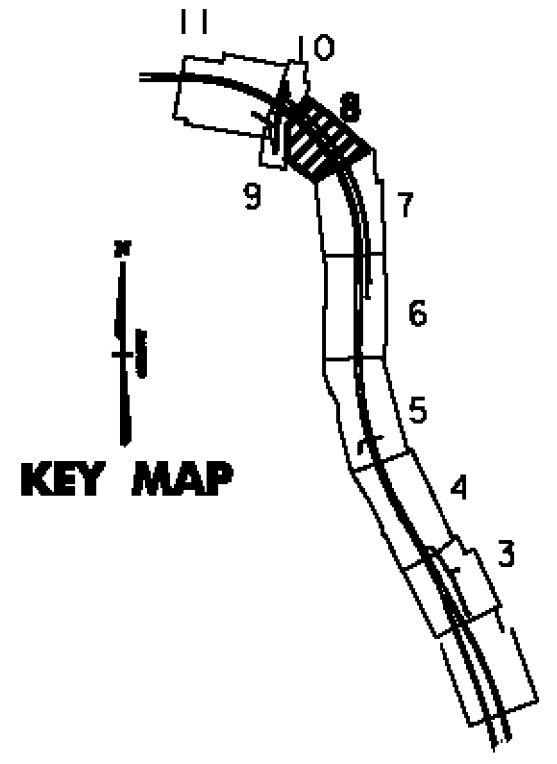
VERMONT AGENCY OF TRANSPORTATION	
PROJECT NAME: BENNINGTON - NORTH	PROJECT NUMBER: BENNINGTON AC NH 019-(52)
FILE NAME: \\DGN\zd307c2p05.p1f	PLOT DATE: 12/10/2007
DESIGN SUPERVISOR: J. BENSON	DRAWN BY: E. SMALL
DESIGNED BY: J. STEELE/C. BRODIE	CHECKED BY: J. STEELE
LANDSCAPE PLAN L-06	SHEET 145 OF



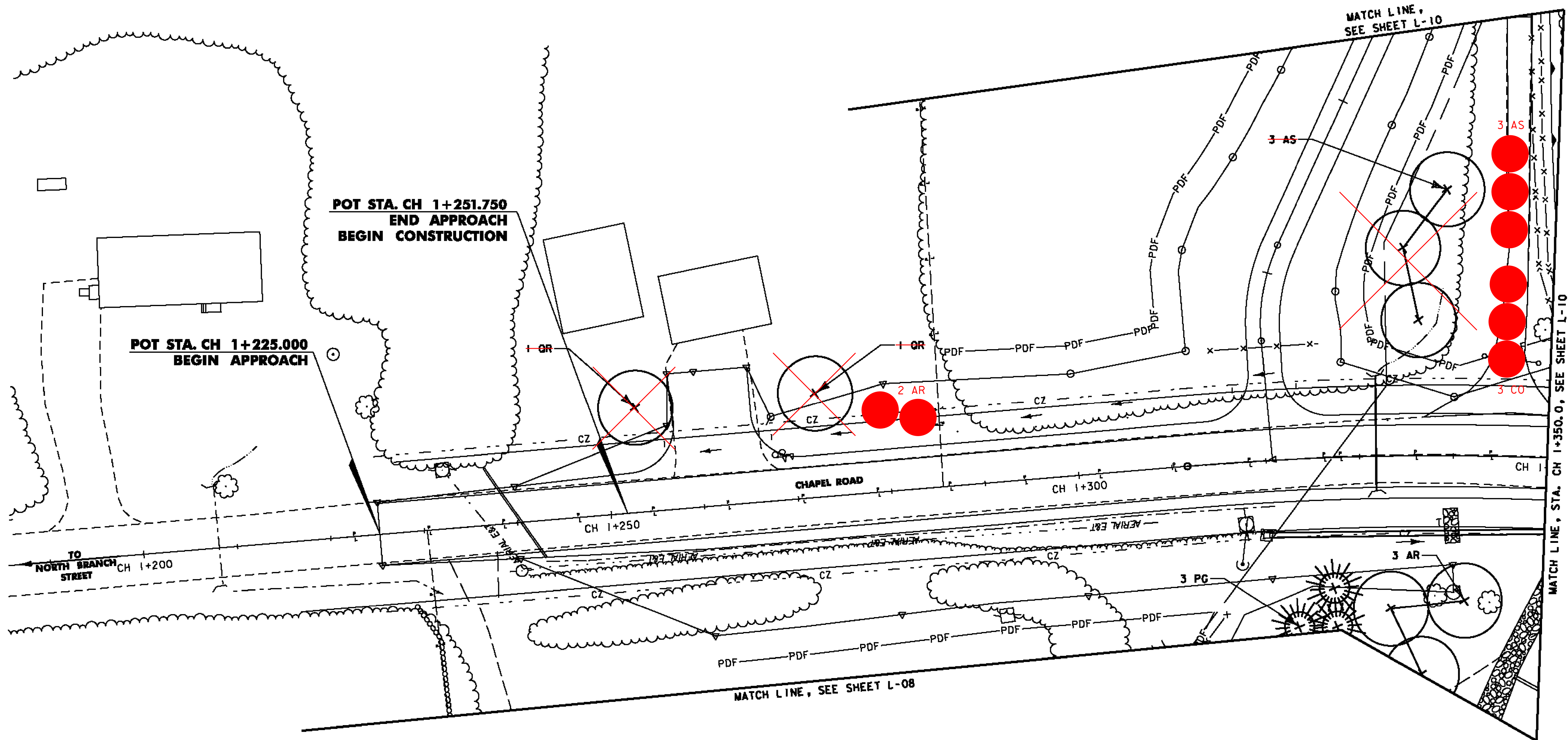


NOTE:
THIS SHEET TO BE USED FOR
LANDSCAPING INFORMATION ONLY

- LEGEND**
- AMC.OI (9) DECIDUOUS SHRUB GROUPING WITH PLANT TYPE AND (QUANTITY)
 - AR.OI (3) DECIDUOUS TREE GROUPING WITH PLANT TYPE AND (QUANTITY)
 - AC.OI (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.

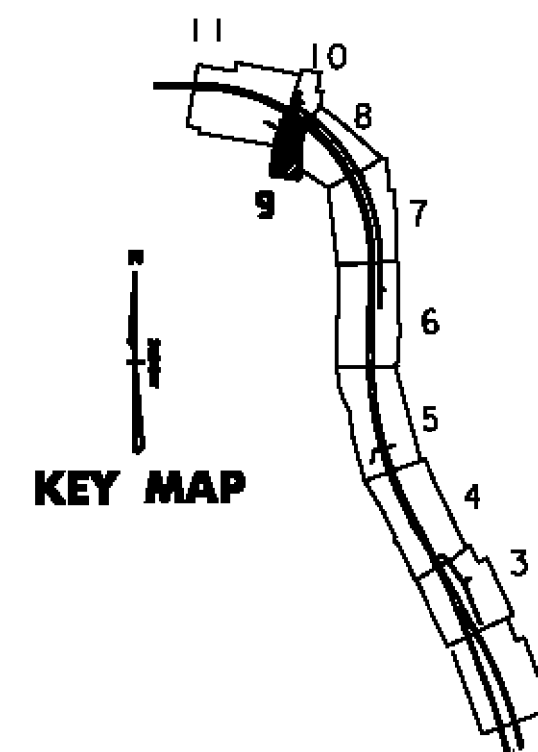


VERMONT AGENCY OF TRANSPORTATION	
DuBois & King INC.	
PROJECT NAME: BENNINGTON - NORTH	PROJECT NUMBER: BENNINGTON AC NH 019-1(52)
FILE NAME: \\DGN\zd307c2p07.p1f	PLOT DATE: 12/10/2007
DESIGN SUPERVISOR: J. BENSON	DRAWN BY: E. SMALL
DESIGNED BY: J. STEELE/C. BRODIE	CHECKED BY: J. STEELE
LANDSCAPE PLAN L-08	SHEET 147 OF



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.



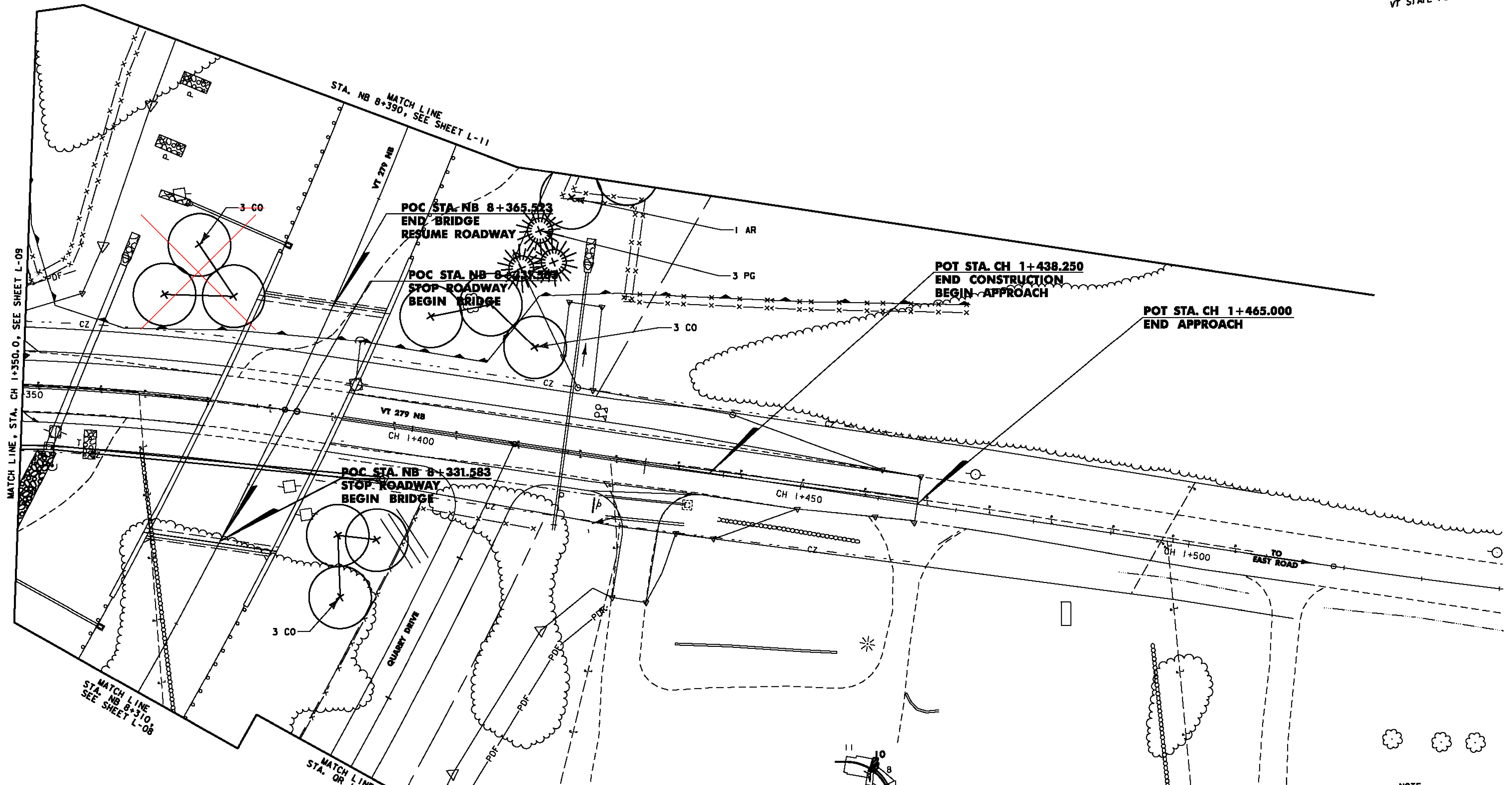
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1:250 SCALE
@ FULL SIZE

NOTE:
THIS SHEET TO BE USED FOR
LANDSCAPING INFORMATION ONLY

VERMONT AGENCY OF TRANSPORTATION

DuBois & King

PROJECT NAME:	BENNINGTON - NORTH	PLOT DATE:	12/10/2007
PROJECT NUMBER:	BENNINGTON AC NH 019-1(52)	DRAWN BY:	E. SMALL
FILE NAME:	\\DGN\zd307c2p08.p1f	DESIGNED BY:	J. STEELE/C. BRODIE
DESIGN SUPERVISOR:	J. BENSON	CHECKED BY:	J. STEELE
LANDSCAPE PLAN	L-09	SHEET	148 OF



LEGEND

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

KEY MAP

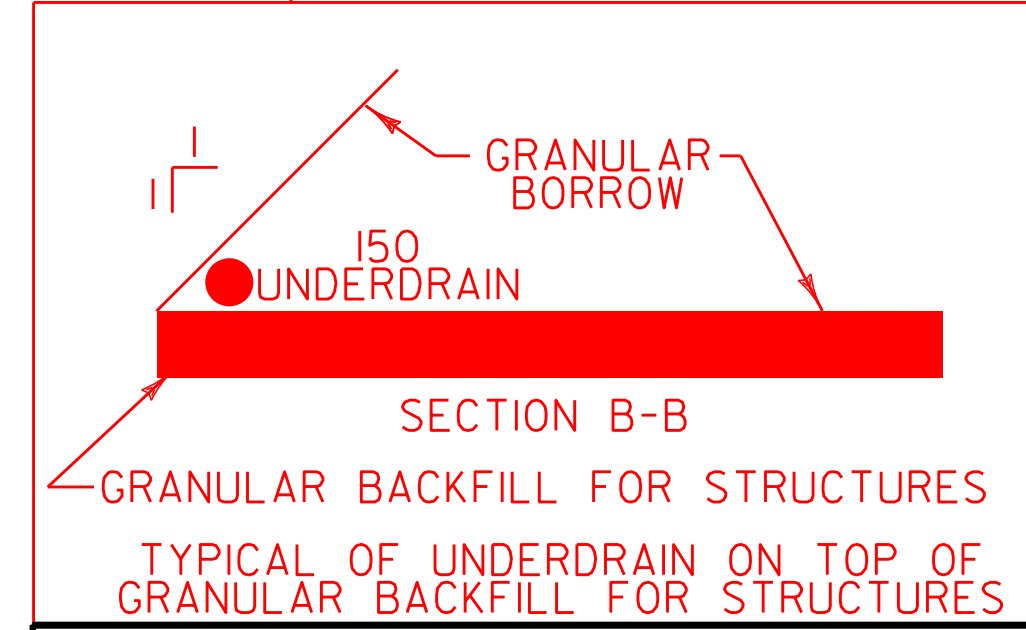
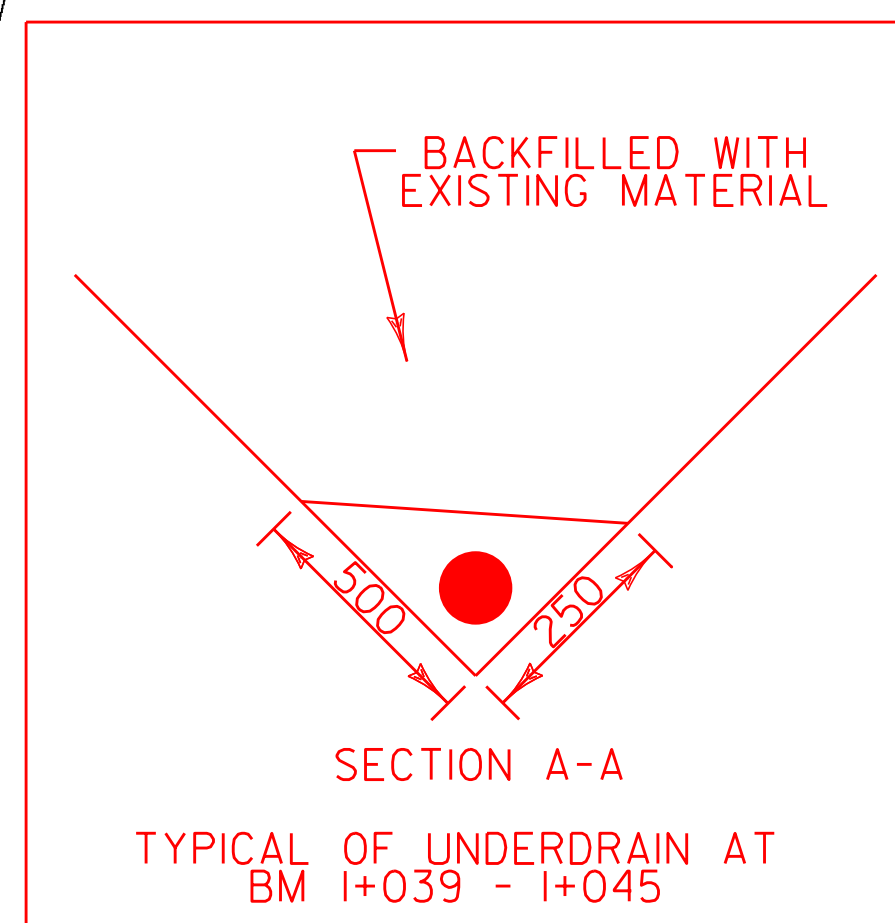


NOTE:
THIS SHEET TO BE USED FOR
LANDSCAPING INFORMATION ONLY

VERMONT AGENCY OF TRANSPORTATION

DuBois & King

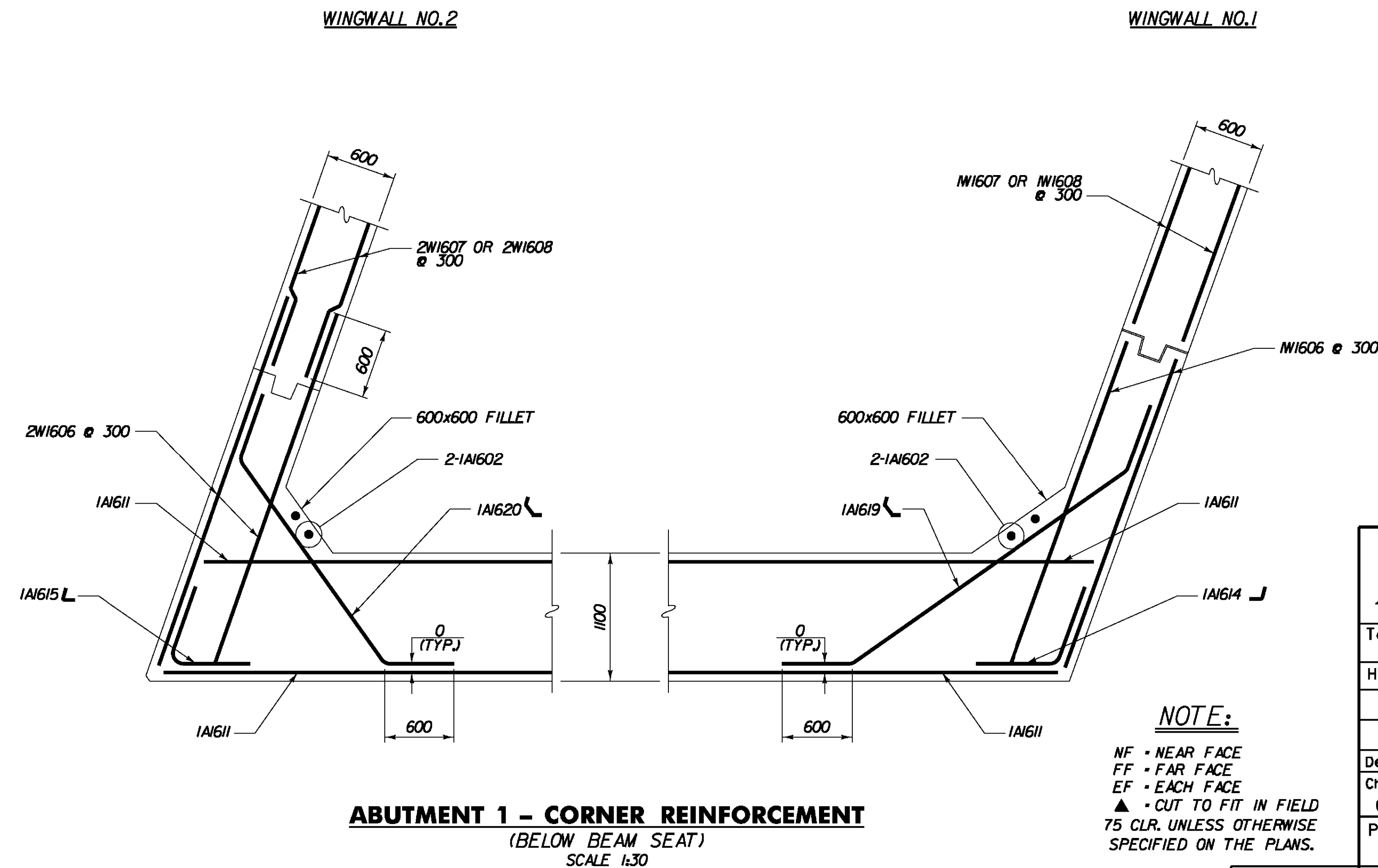
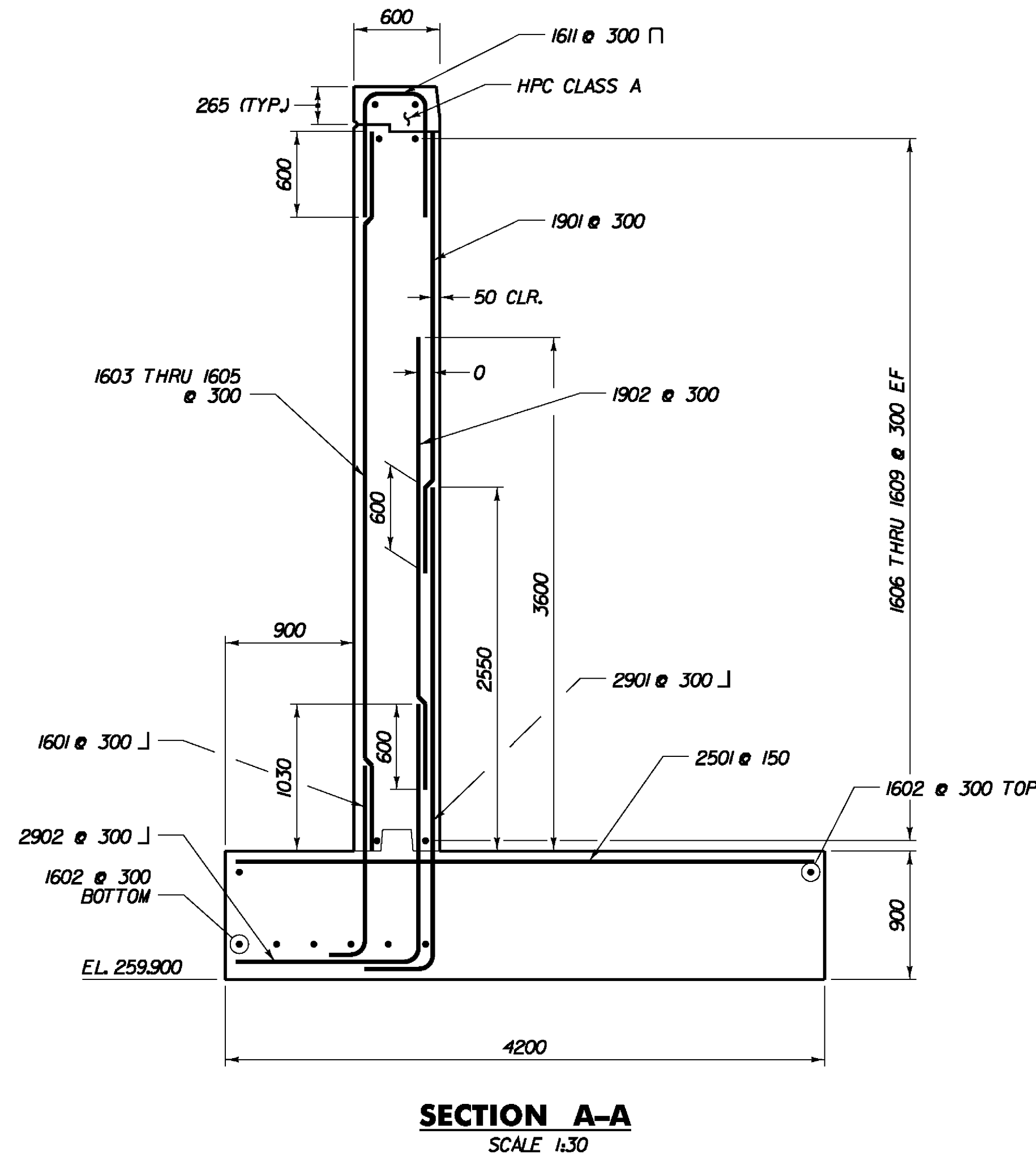
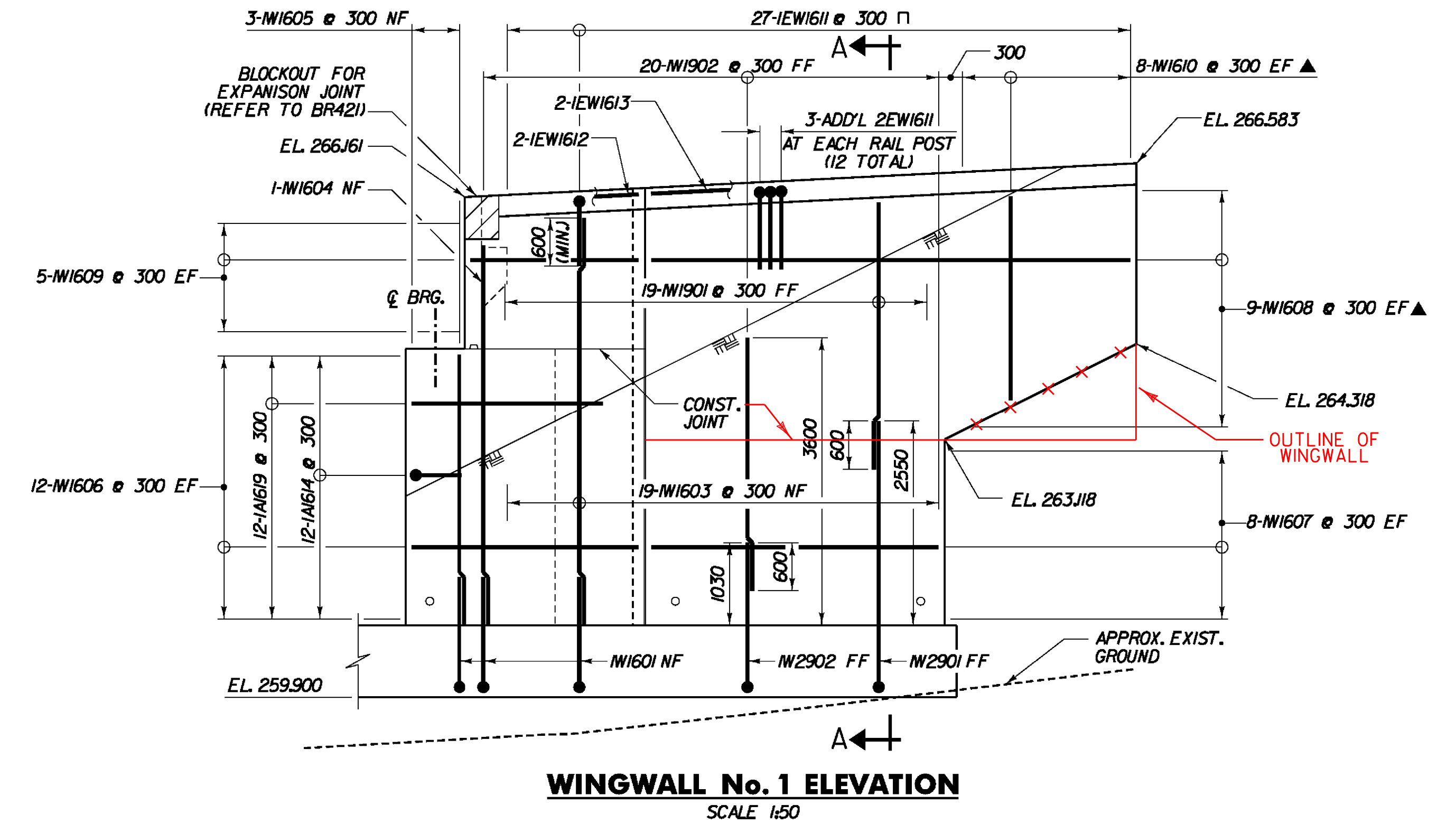
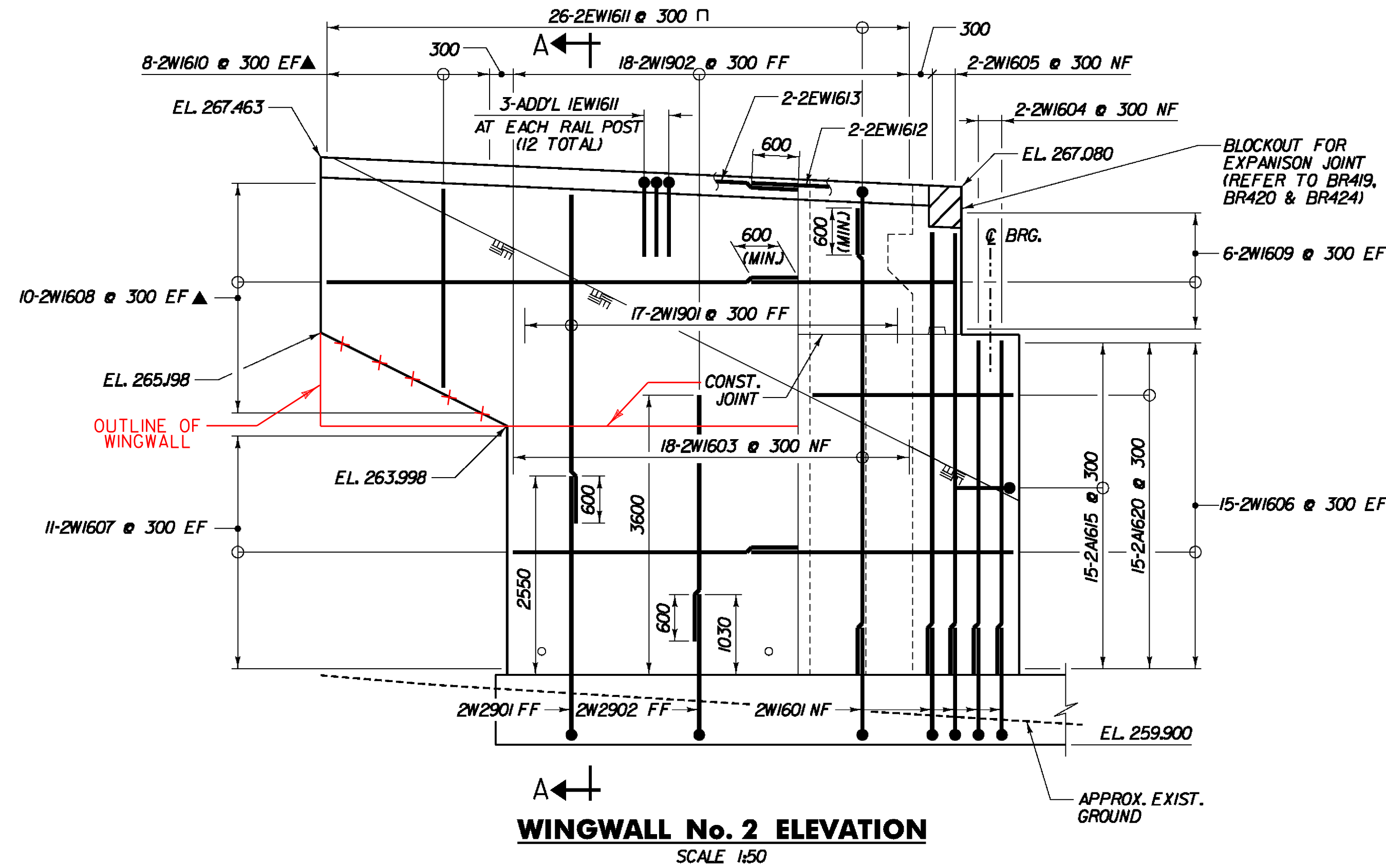
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PROJECT NUMBER: BENNINGTON AC NH 019-1(52)	DRAWN BY: E. SMALL
FILE NAME: \\DGN\zd307c2p09.p1f	DESIGNED BY: J. STEELE/C. BRODIE
DESIGN SUPERVISOR: J. BENSON	CHECKED BY: J. STEELE
LANDSCAPE PLAN L-10	SHEET 149 OF



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

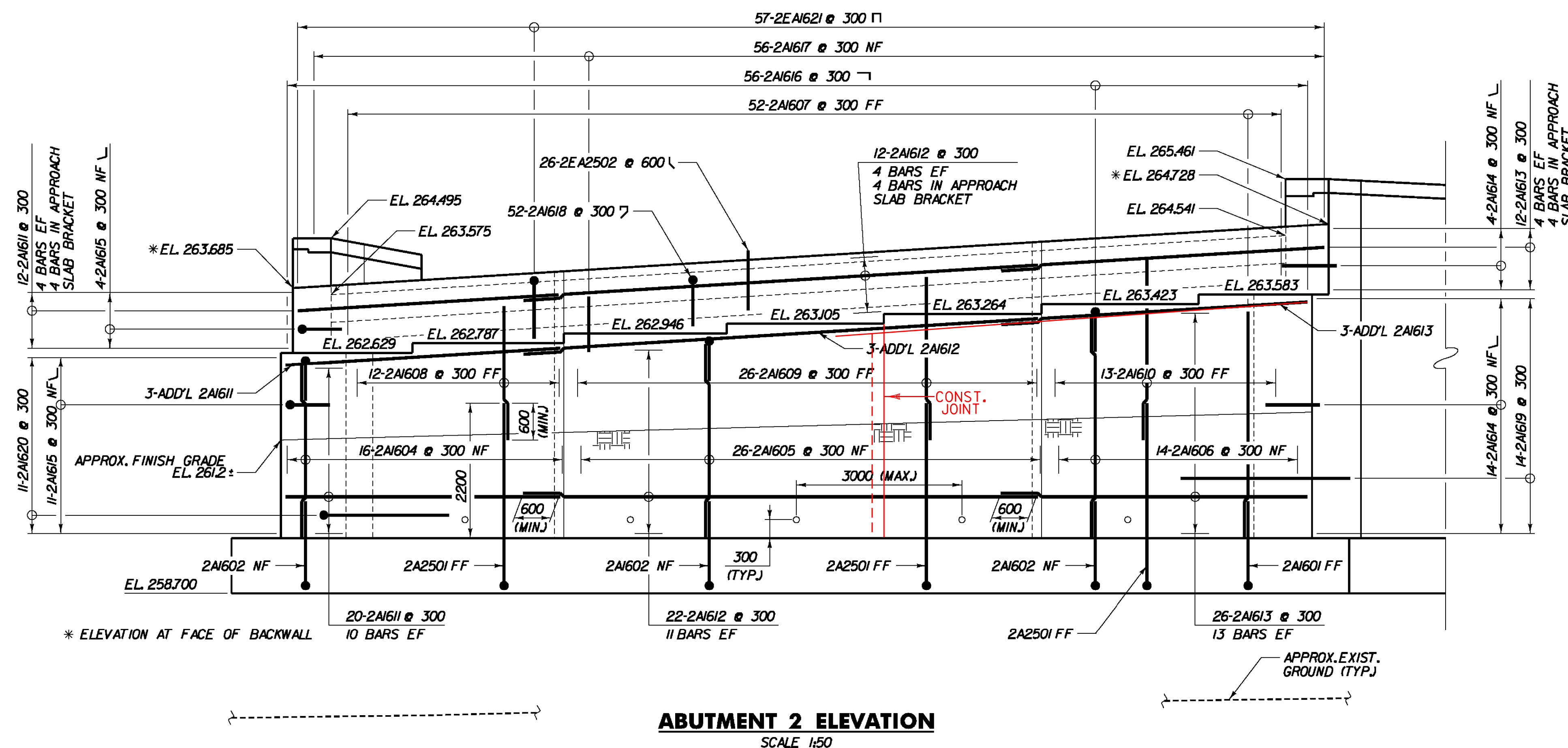
VT ROUTE 279 OVER BALD MT. TRAIL	
PLAN AND PROFILE	
Designed By S. BURBANK	Drawn By S. BURBANK
Checked By Date M. CHENETTE 10/05	Bridge Design Supervisor G. BOGUE Date
PROJECT BENNINGTON	PROJECT NO. AC NH 019-K52
Dgn.: ...\\Design\BM\BM-Plan.dgn	Plot Date: 5/18/2011
Bridge Sheet No. BR301	Sheet 154 of 267

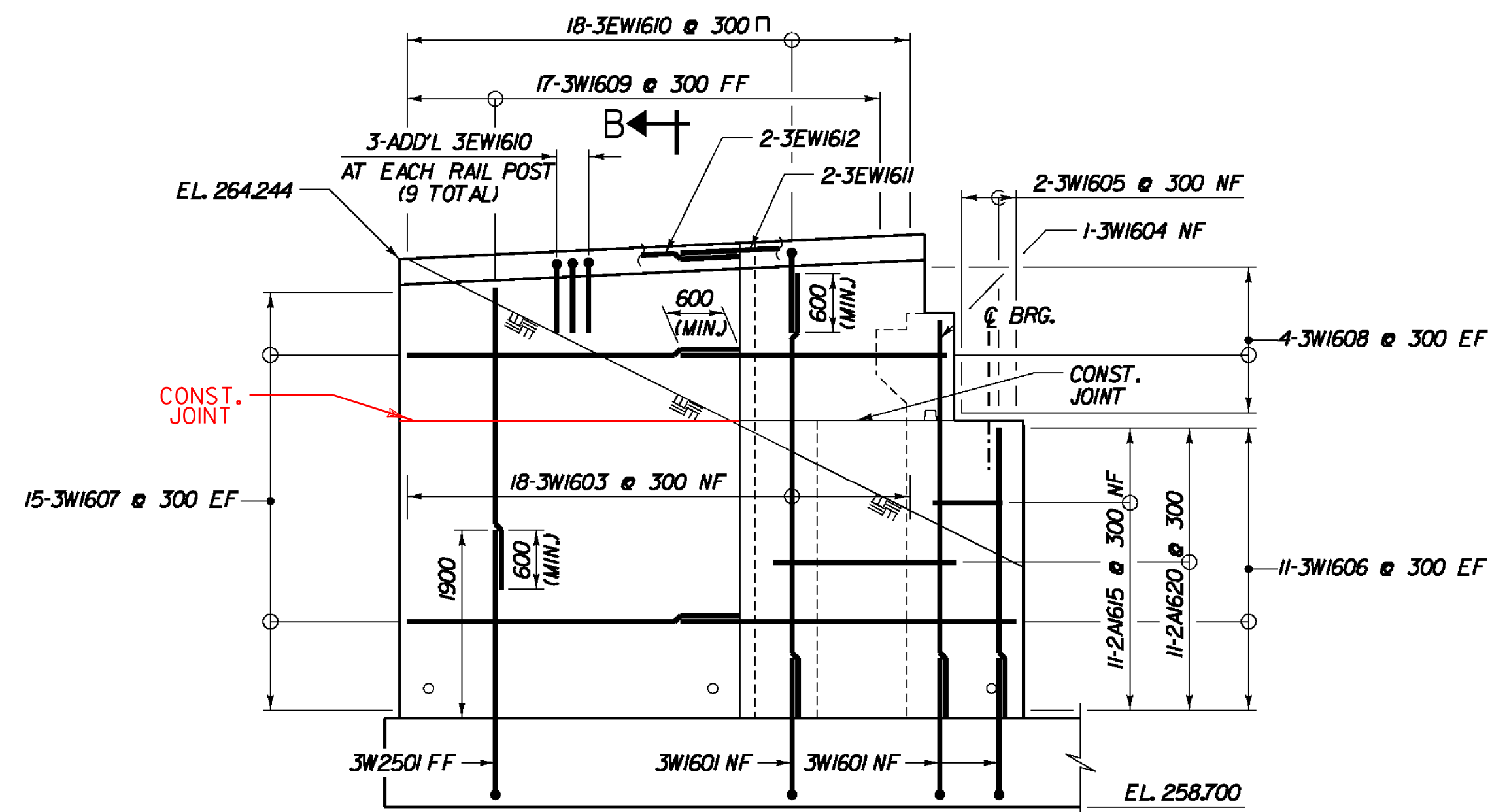




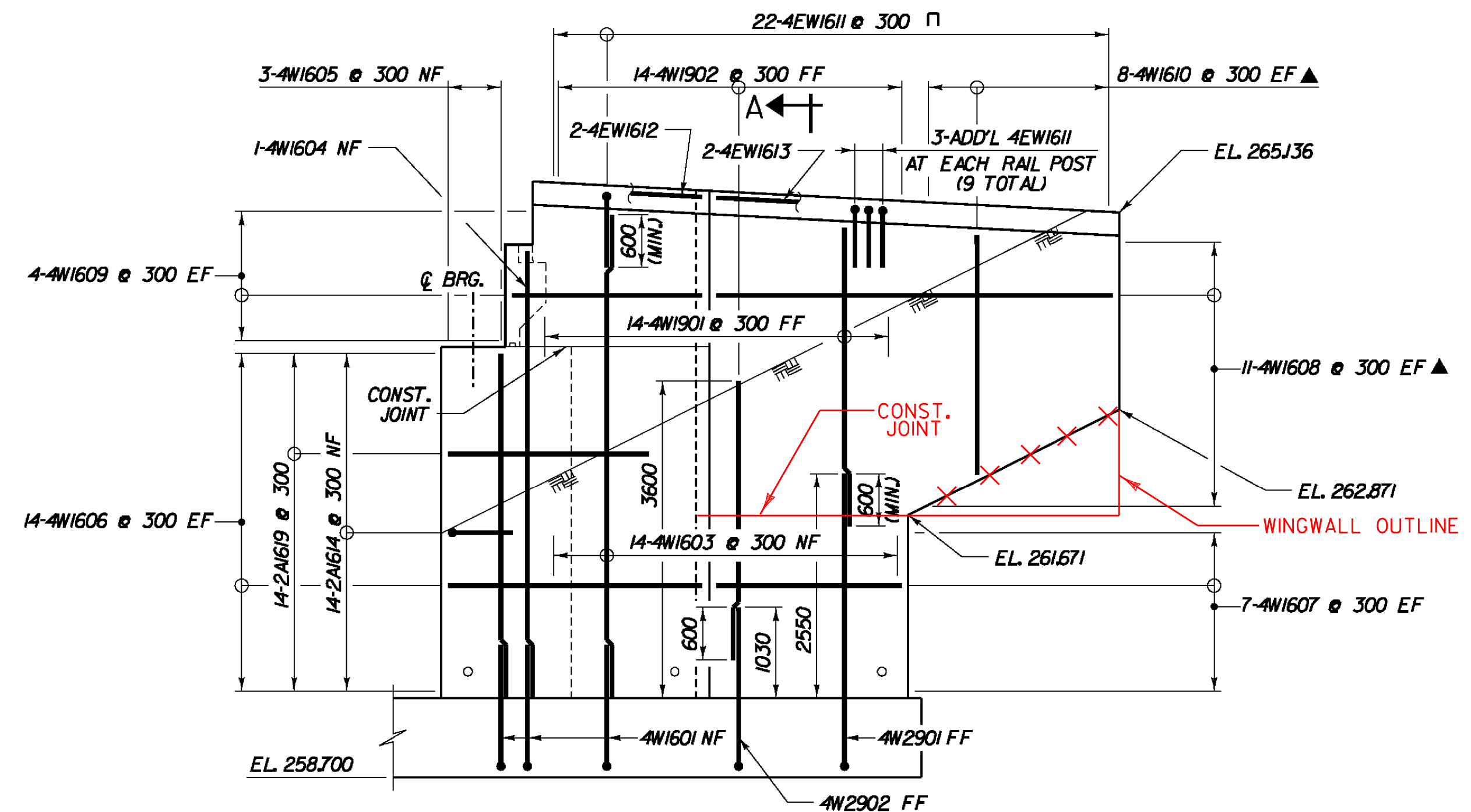
NOTE:
NF - NEAR FACE
FF - FAR FACE
EF - EACH FACE
▲ - CUT TO FIT IN FIELD
75 CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

STATE OF VERMONT AGENCY OF TRANSPORTATION			
Town Of	BENNINGTON	Bridge No.	
Highway No.		Log Sta.	
		Surv. Sta.	
VT ROUTE 279 OVER CHAPEL ROAD			
ABUTMENT 1 WINGWALL DETAILS			
Designed By	T. KNIGHT	Drawn By	J. SOTER
Checked By	Date	Bridge Design Supervisor	
G. BOGUE	11/06	G. BOGUE	Date 12/05
PROJECT	BENNINGTON	PROJECT NO.	AC NH 019-11521
Dgn.:	...design\ch\CH-Abut1w.dgn	Plot Date:	5/18/2011
Bridge Sheet No.	BR425	Sheet	185 of 267

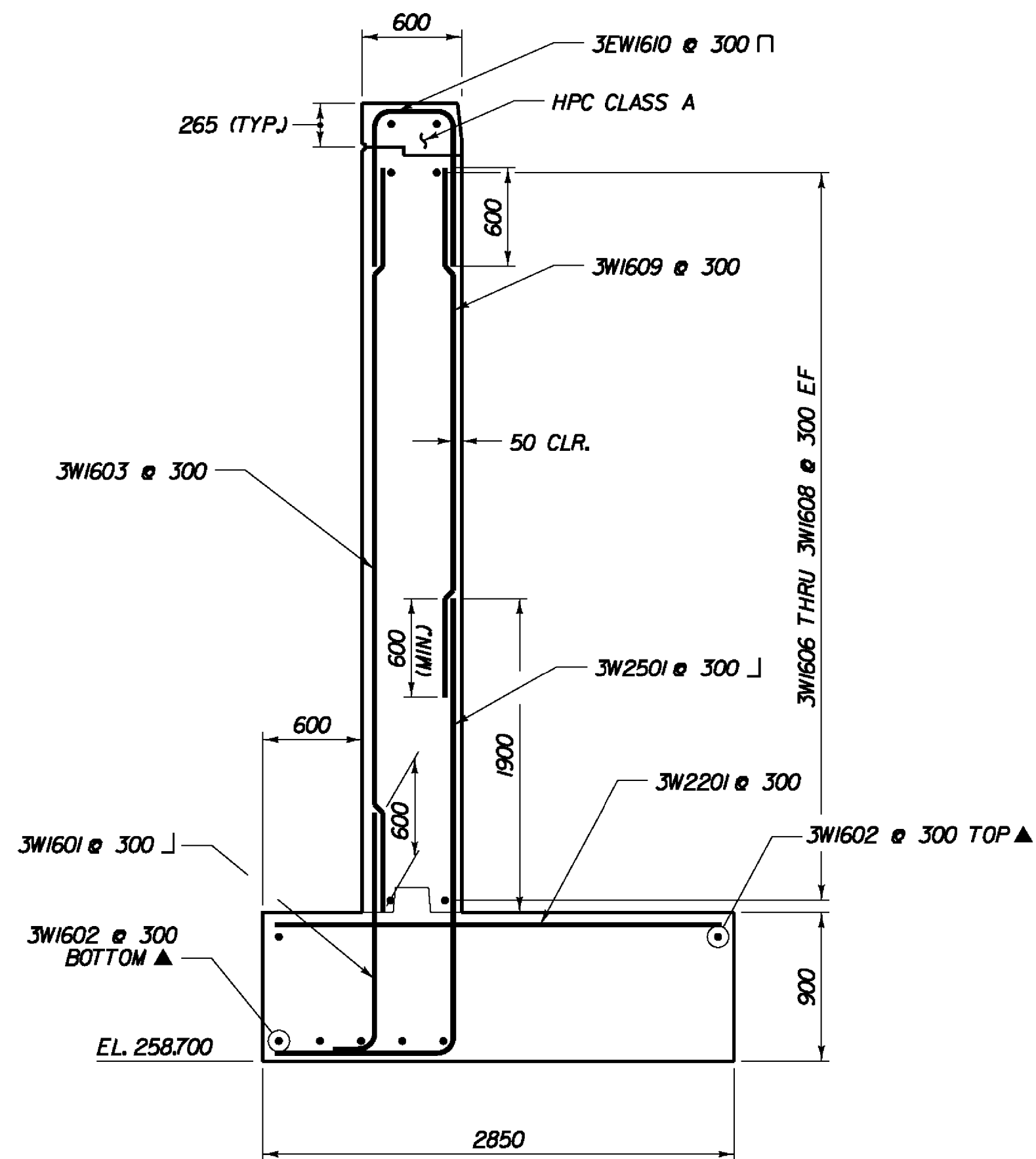




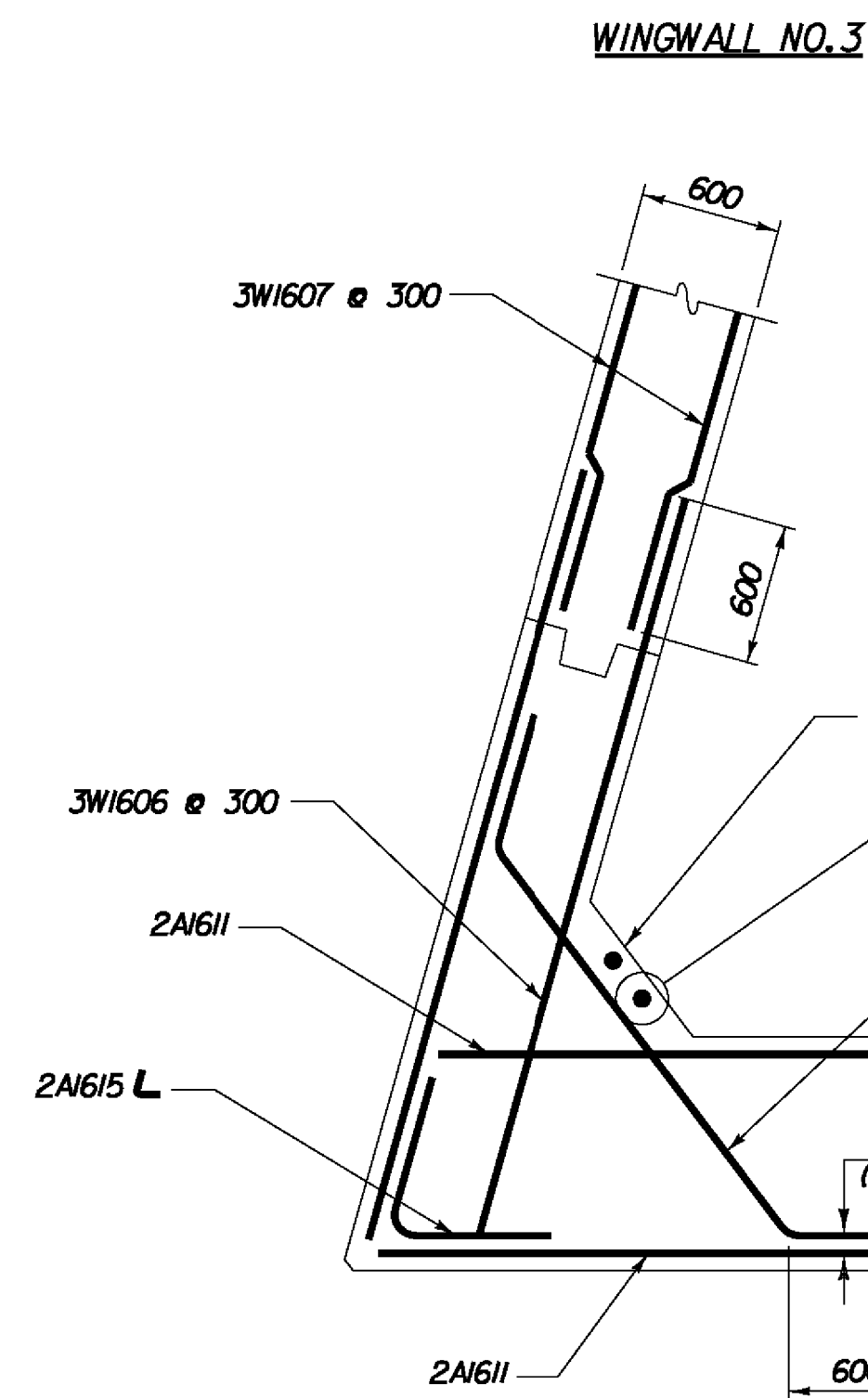
WINGWALL No. 3
SCALE 1:50



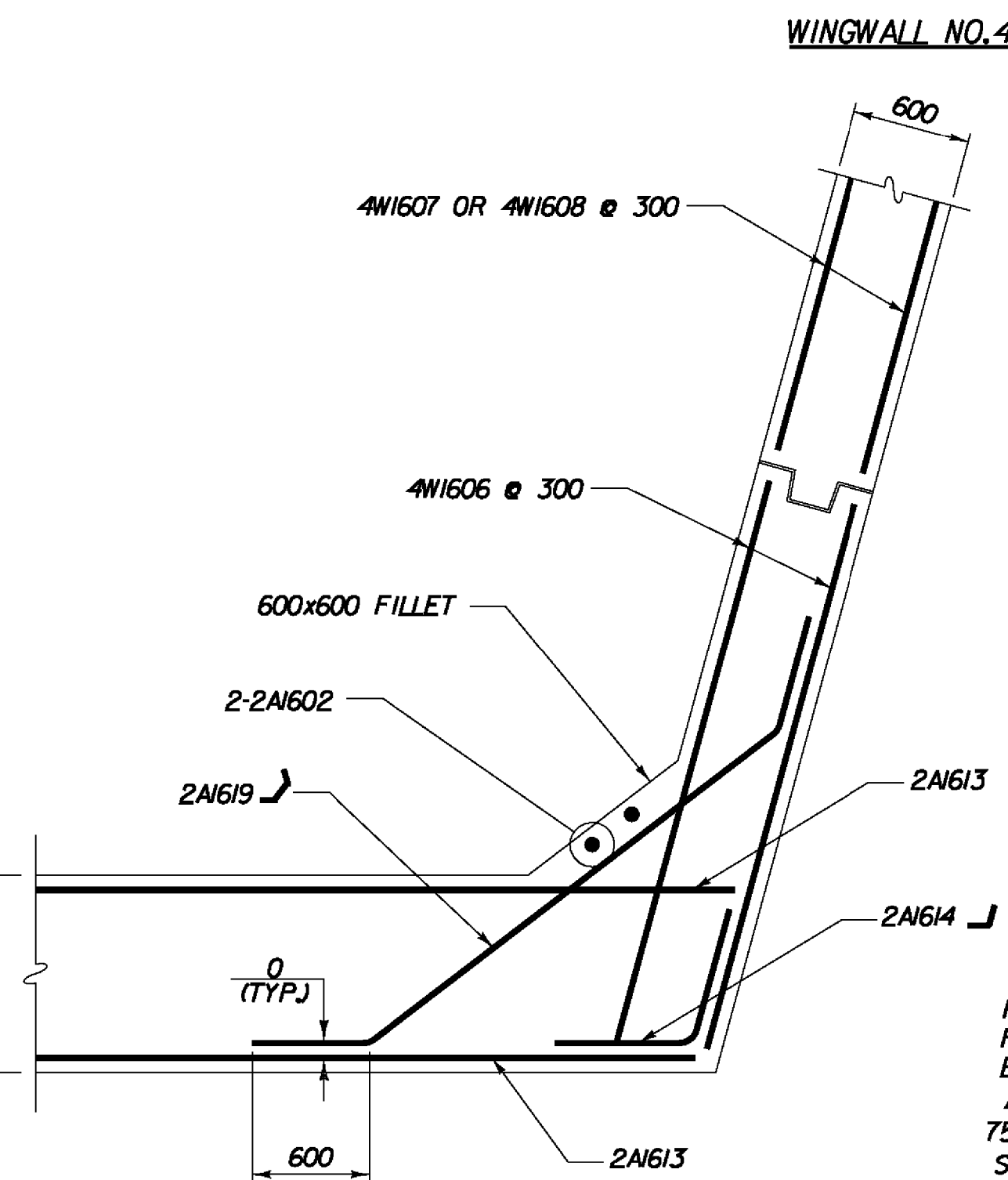
WINGWALL No. 4
SCALE 1:50



SECTION B-B
SCALE 1:30



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



NOTE:
FOR SECTION A-A SEE BRIDGE SHEET BR425

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			
ABUTMENT 2 WINGWALL DETAILS			
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 019-11521
Dgn.	...design\ch\CH-Abut2w.dgn	Plot Date	5/18/2011
Bridge Sheet No.	BR428	Sheet	188 of 267

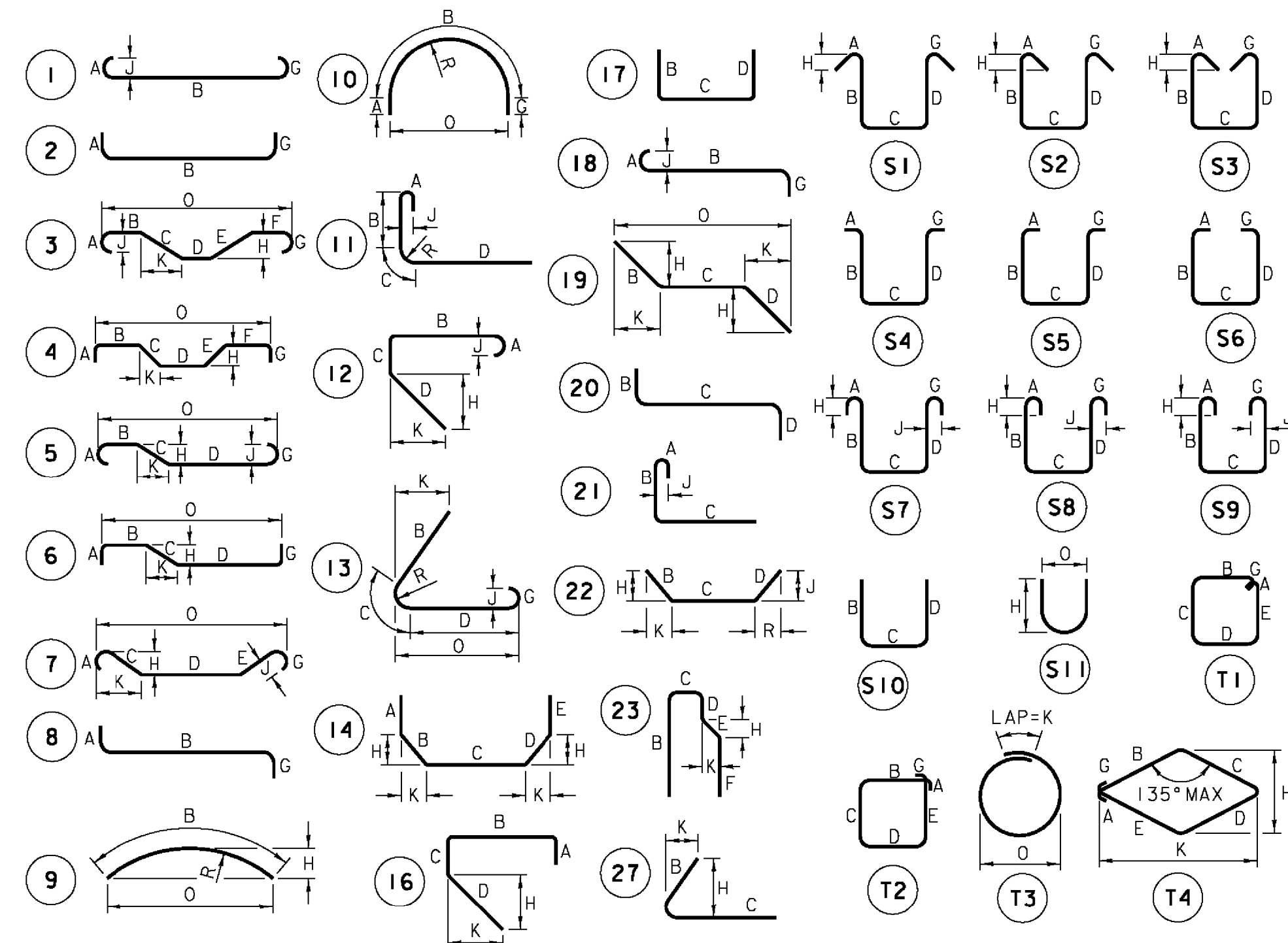


2609
7831

NOTES



1. 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.
2. 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".
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
5. "J" DIMENSION ON 180 DEGREE HOOKS ARE TO BE SHOWN ONLY WHEN NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS ARE TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
8. ▲ DENOTES BARS TO BE CUT IN FIELD.
9. * DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
11. "E" IN PREFIX DENOTES EPOXY COATED REINFORCING STEEL.

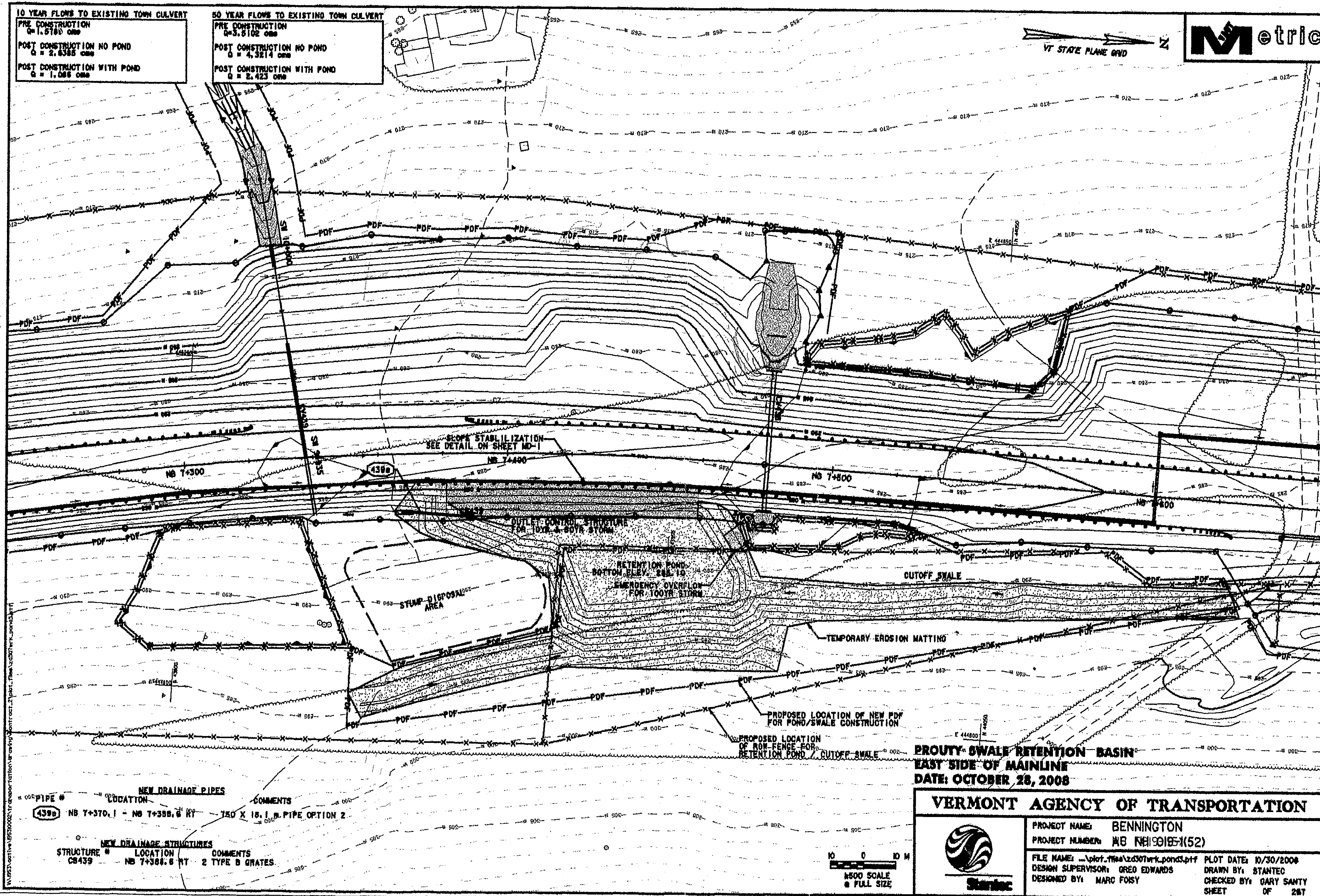


ASTM STANDARD REINFORCING BARS				
BAR SIZE DESIGNATION	NOMINAL MASS kg/m	NOMINAL DIMENSIONS		ROUND SECTION
		DIAMETER mm	GROSS SECTIONAL AREA mm ²	PERIMETER mm
10	0.560	9.5	71	29.84
13	0.994	12.7	129	39.90
16	1.552	15.9	199	49.95
19	2.235	19.1	284	60.00
22	3.042	22.2	387	69.74
25	3.973	25.4	510	79.80
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 Date	Bridge Design Supervisor
T. KNIGHT 07/06	G. BOGUE Date 12/05
PROJECT	PROJECT NO.
BENNINGTON	AC NH 019-(K52)
Dgn.: ...\\design\ch\CH-RebarSched.dgn Plot Date: 5/18/2011	
Bridge Sheet No. BR433	Sheet 193 of 267

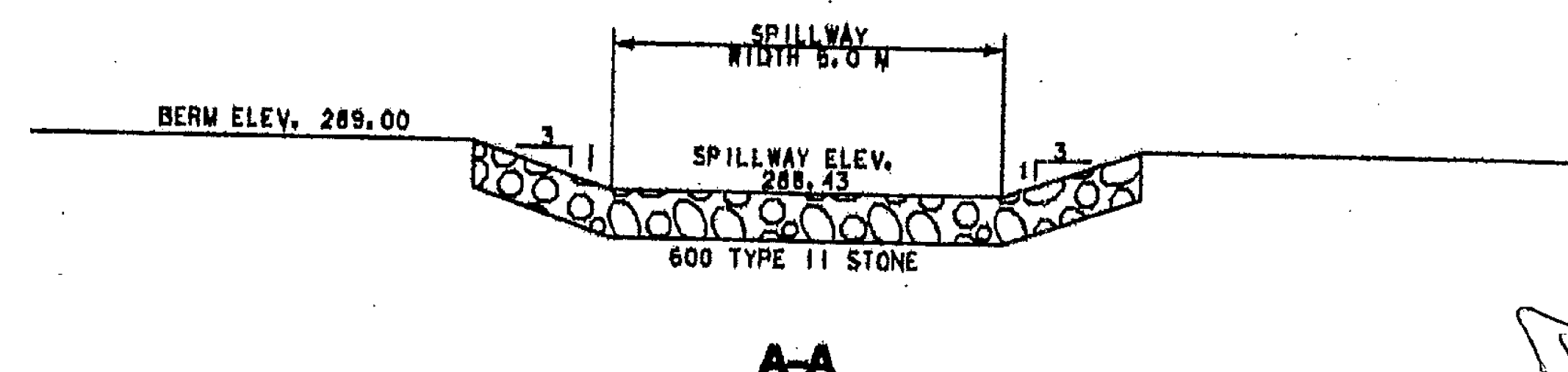
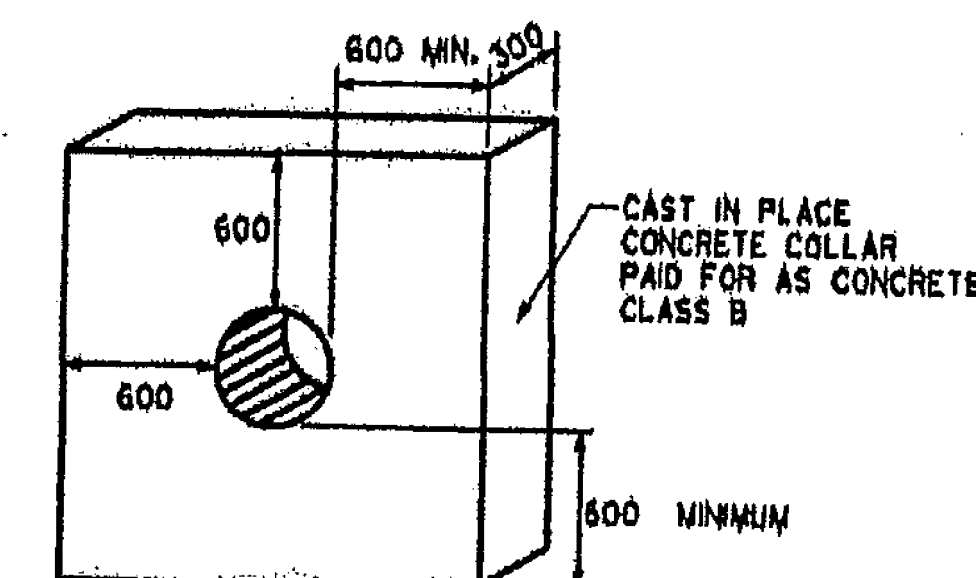
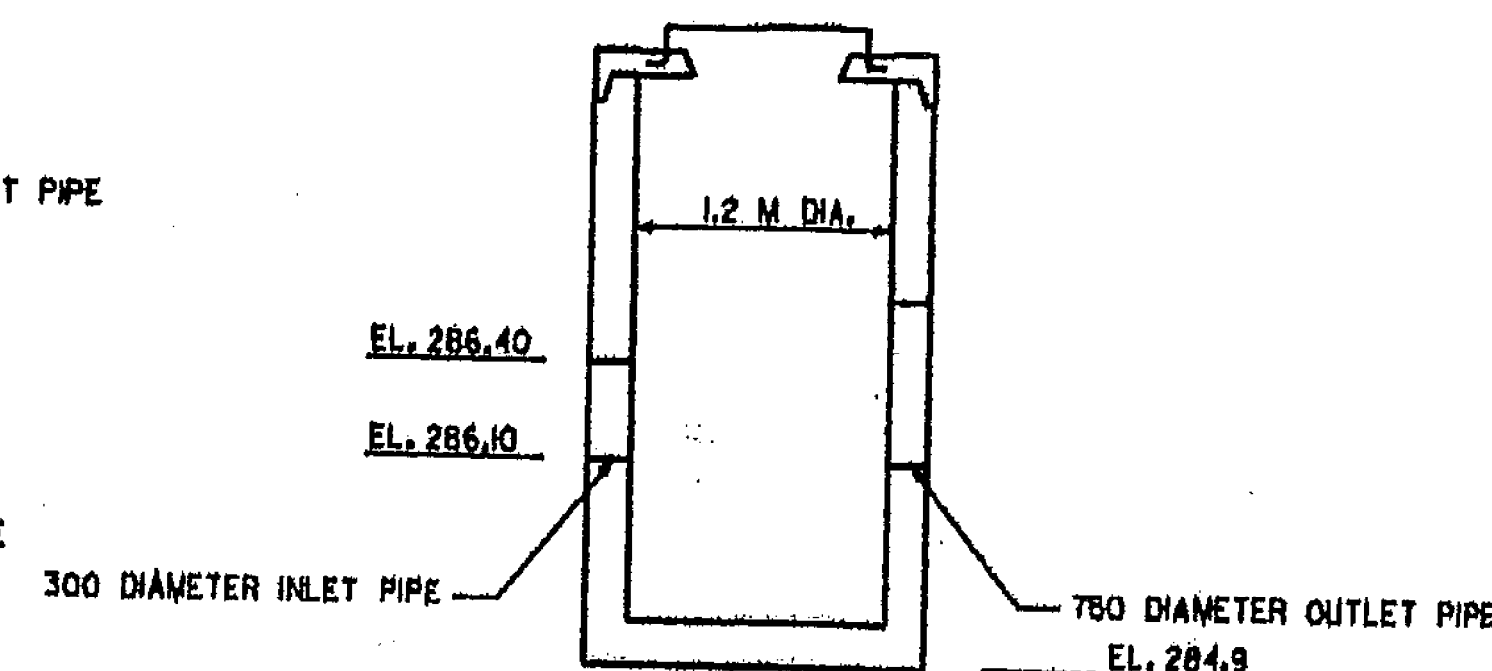
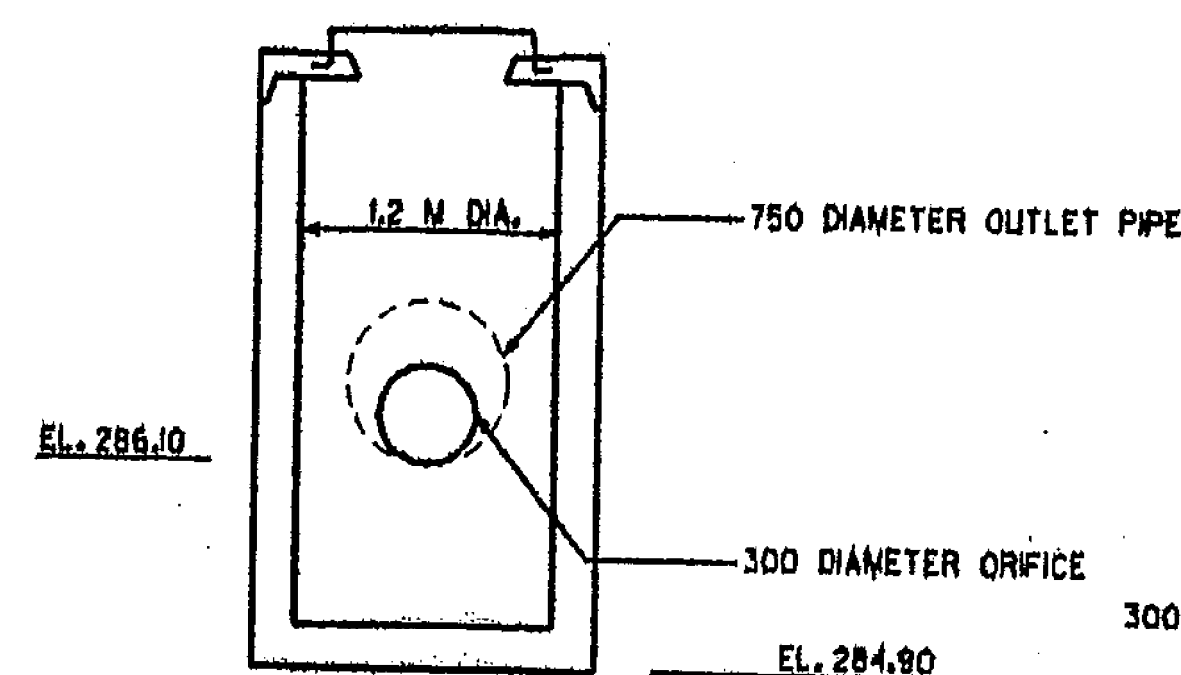
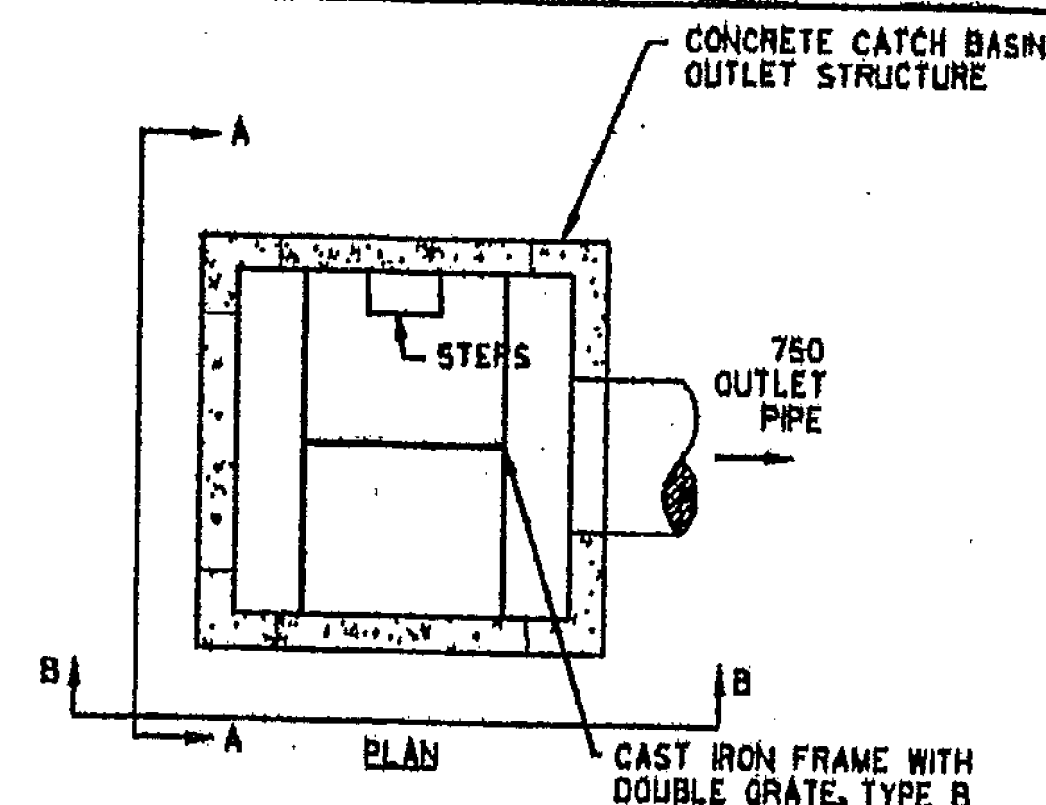
RECORD PLANS



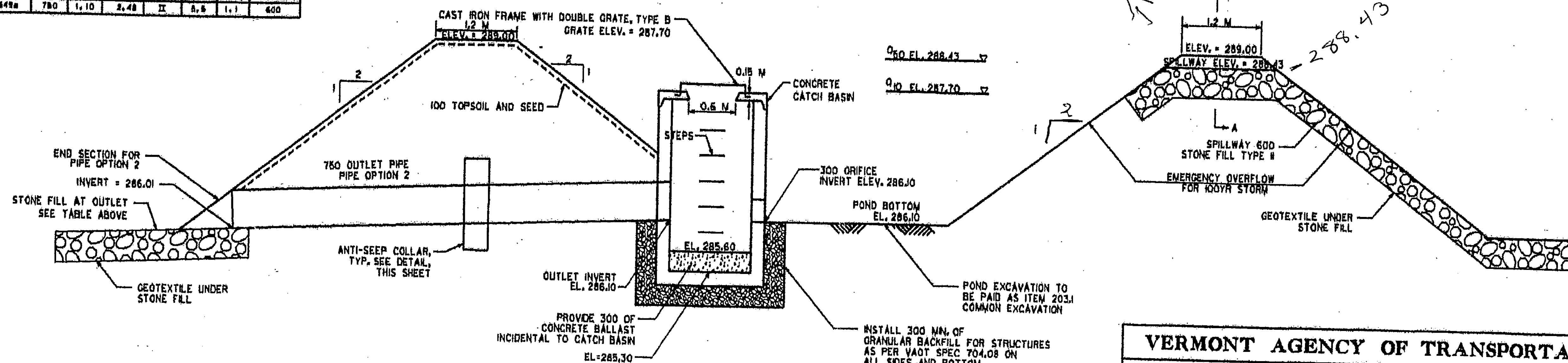


GENERAL NOTES:

1. THE DRY POND AREA SHALL BE CLEARED OF TREES, STUMPS, BOULDERS AND SOO TO A MINIMUM DEPTH OF 300' BELOW FINAL GRADE.
2. CONCRETE CATCH BASIN DRY POND OUTLET TO BE CONSTRUCTED WITH HOLE SIZES AND SPACING AS SHOWN WITH ANY FIELD ADJUSTMENTS APPROVED BY THE ENGINEER. HOLES SHALL BE CAST WITH THE SECTION TO AVOID POSSIBLE RUST STAINS FROM EXPOSED REINFORCEMENT.
3. SEED AND MULCH ALL EARTH SLOPES WITHIN 24 HOURS OF COMPLETION OF FINAL GRADING. STABILIZE THE INLET AREA WITH REQUIRED EROSION CONTROL MEASURES.
4. REMOVE ACCUMULATED SEDIMENT FROM POND AT COMPLETION OF PROJECT, AT THE DIRECTION OF THE ENGINEER.
5. ANTI-SEEP COLLARS SHALL BE INSTALLED AS SHOWN TO RESIST FLOW ALONG THE OUTSIDE OF THE PIPE. COLLARS SHOULD PROJECT A MINIMUM OF 0.6' M FROM THE PIPE. MAXIMUM SPACING OF COLLARS IS 6' M.
6. OUTLET STRUCTURE TO BE PAID FOR AS ITEM 604.10 CONCRETE CATCH BASIN W/ 2 TYPE B GRATES.



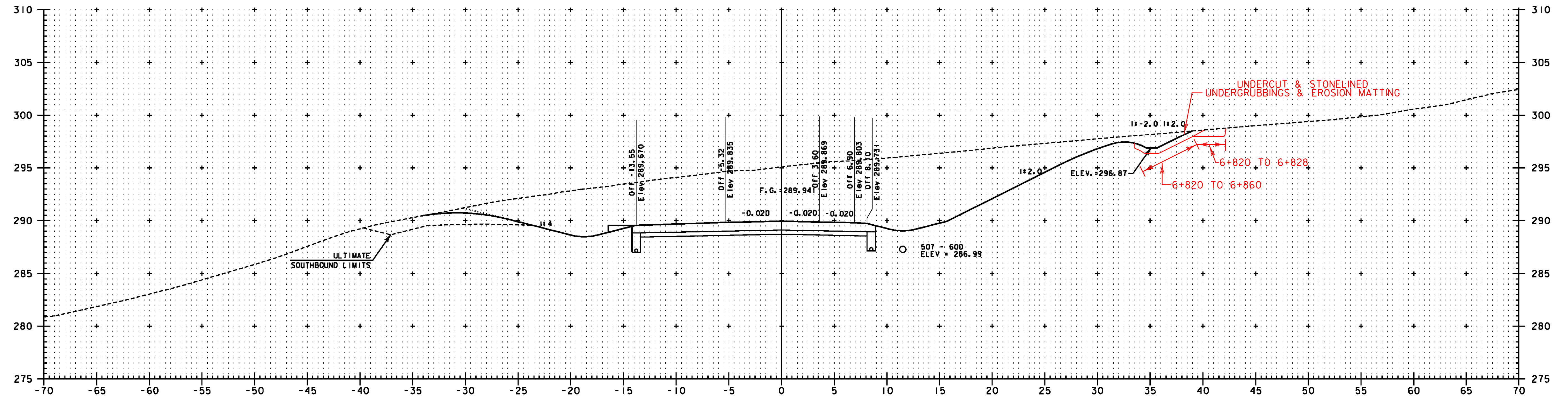
STONE OUTLET PROTECTION							
OUTLET PIPE NO.	PIPE SIZE (mm)	FLOW (cms)	VELOCITY (m/s)	STONE TYPE	PAD LENGTH (m)	PAD WIDTH (m)	PAD THICKNESS (mm)
649a	750	1.10	2.48	II	2.8	1.1	600



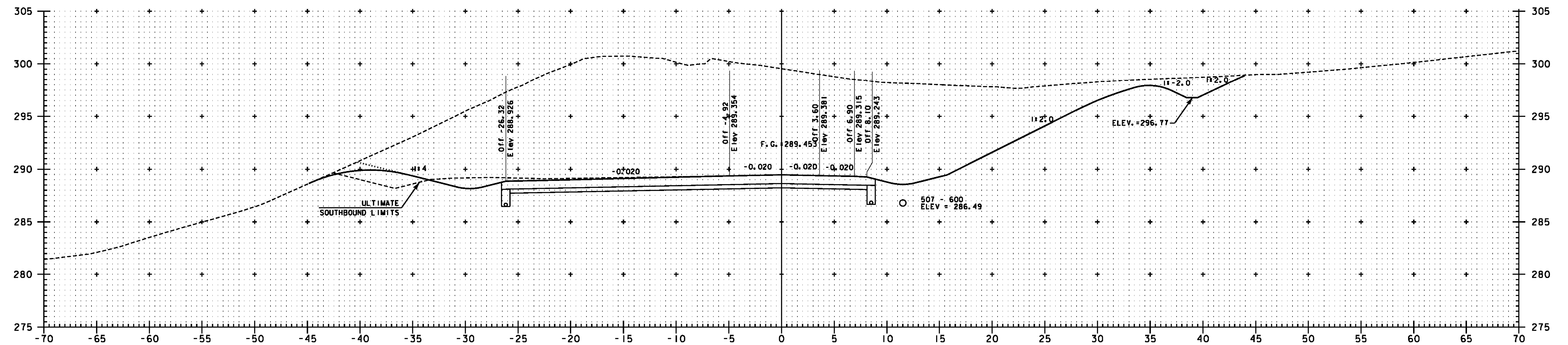
VERMONT AGENCY OF TRANSPORTATION



PROJECT NAME: BENNINGTON
PROJECT NUMBER: AC NH 019-K52)
FILE NAME: ...plot.fba\zd307a2det.dwg PLOT DATE: 10/30/2008
DESIGN SUPERVISOR: GREG EDWARDS DRAWN BY: STANTEC
DESIGNED BY: MARC FOISY CHECKED BY: GARY SANTY
STORMWATER MANAGEMENT DETAILS SHEET OF 267

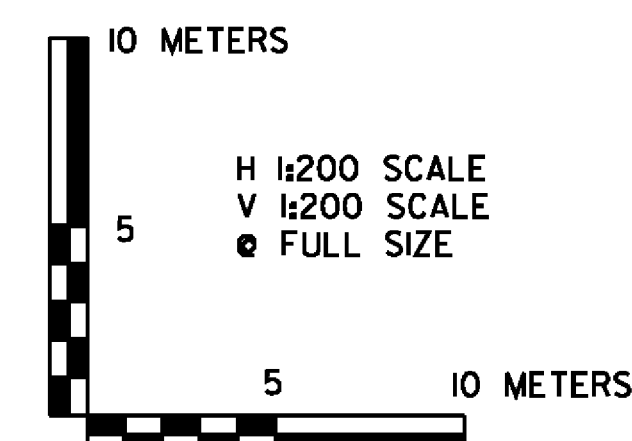


NB 6+820



NB 6+800

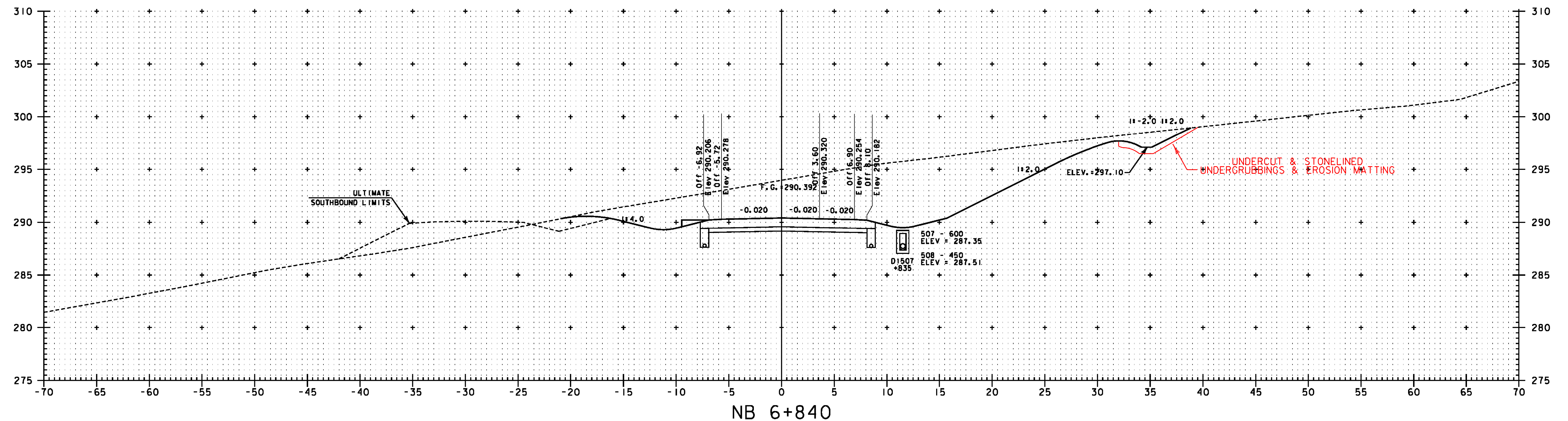
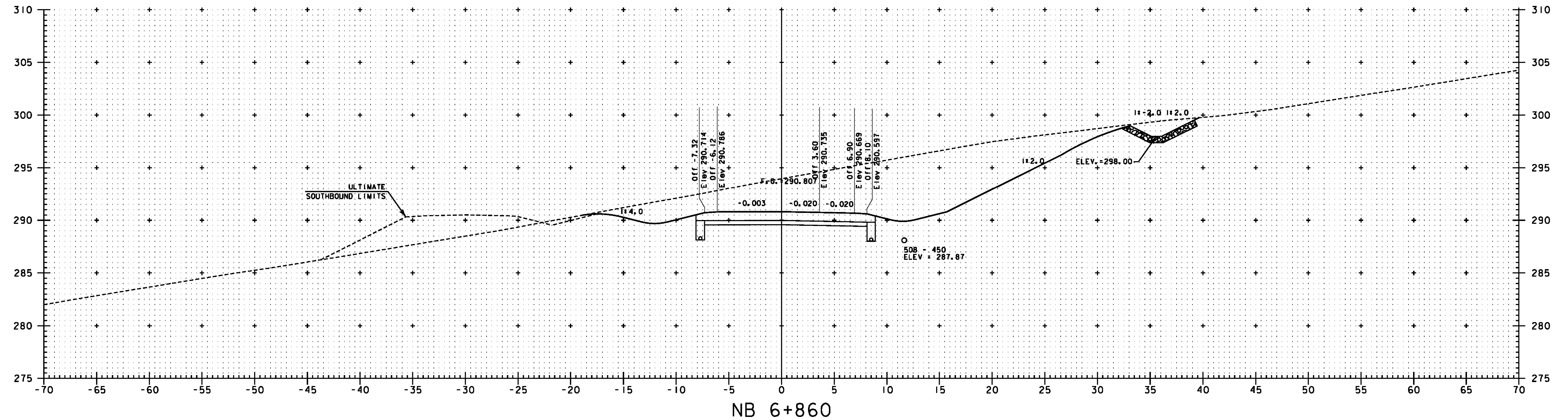
NOTE:
ELEVATIONS SHOWN ARE FOR THE ULTIMATE FINISHED GRADE.
THE TOP 50 PAVEMENT COURSE (TYPE IIIS) WILL NOT BE
CONSTRUCTED AS PART OF THIS CONTRACT. THIS CONTRACT
ONLY INCLUDES 100 OF TYPE IS AND 80 OF TYPE IIS
SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (ITEM 490.30).
PLEASE REFER TO THE ROADWAY TYPICAL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



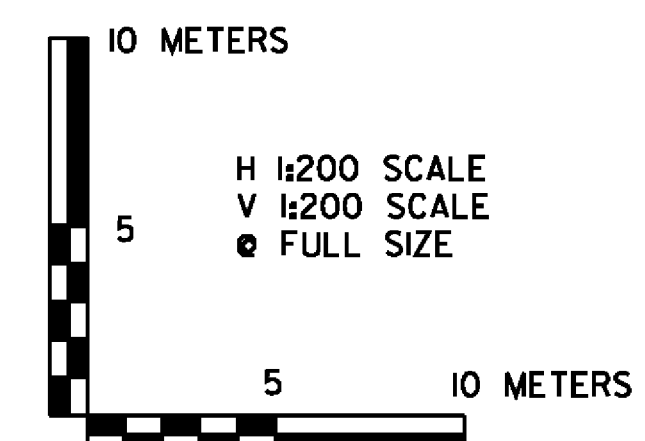
VERMONT AGENCY OF TRANSPORTATION



PROJECT NAME:	BENNINGTON
PROJECT NUMBER:	AC NH 019-(152)
FILE NAME:	...plot_files\zd307c2xs-nb.prf
DESIGN SUPERVISOR:	GREG EDWARDS
DESIGNED BY:	MARC FOISY
NB MAINLINE CROSS SECTIONS NBX-11	
PLOT DATE:	5/16/2011
DRAWN BY:	STANTEC
CHECKED BY:	GARY SANTY
SHEET	204 OF 267



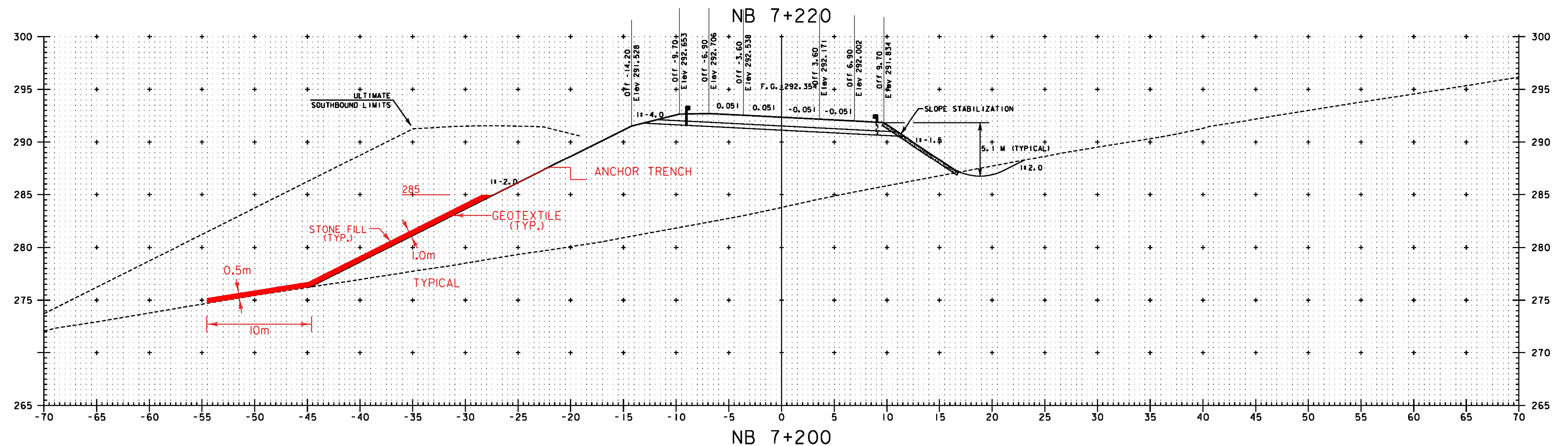
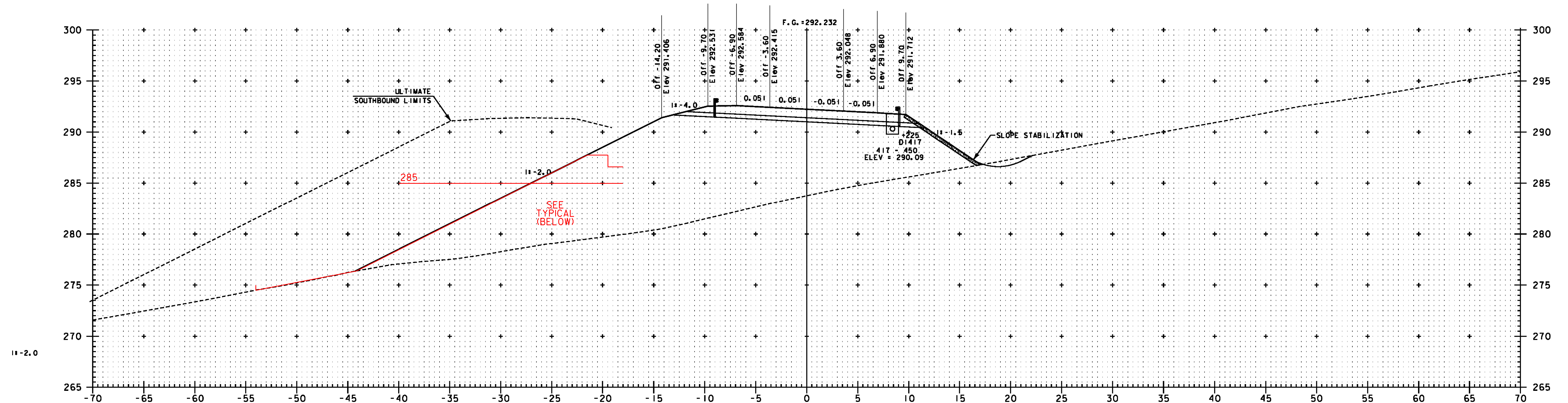
NOTE:
ELEVATIONS SHOWN ARE FOR THE ULTIMATE FINISHED GRADE.
THE TOP 50 PAVEMENT COURSE (TYPE IIIS) WILL NOT BE
CONSTRUCTED AS PART OF THIS CONTRACT. THIS CONTRACT
ONLY INCLUDES 100 OF TYPE IS AND 80 OF TYPE IIS
SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (ITEM 490.30).
PLEASE REFER TO THE ROADWAY TYPICAL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



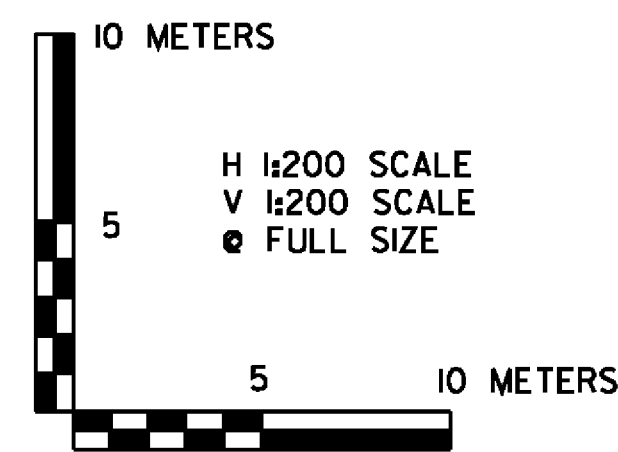
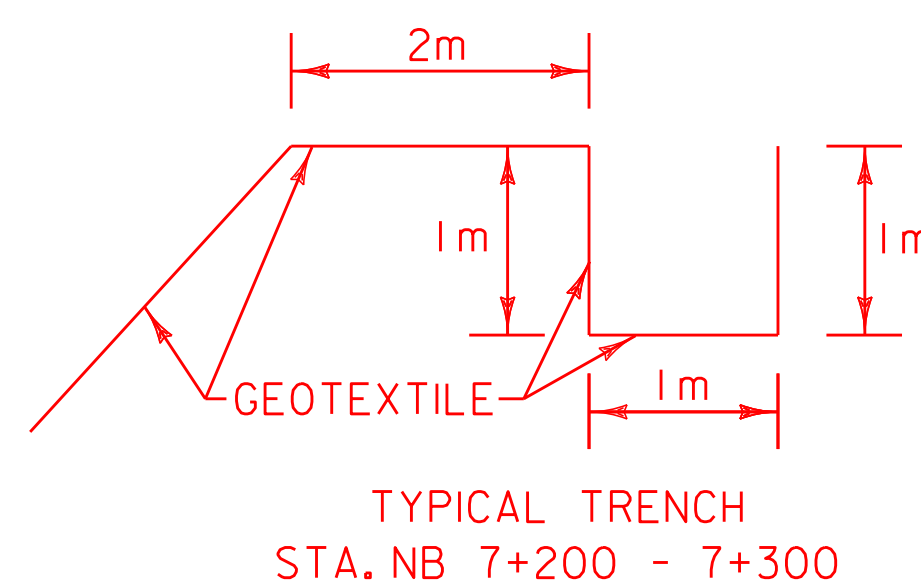
VERMONT AGENCY OF TRANSPORTATION



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
NB MAINLINE CROSS SECTIONS NBX-12
PLOT DATE: 5/16/2011
DRAWN BY: STANTEC
CHECKED BY: GARY SANTY
SHEET 205 OF 267



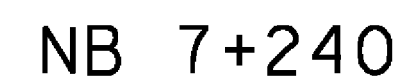
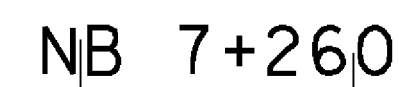
NOTE:
ELEVATIONS SHOWN ARE FOR THE ULTIMATE FINISHED GRADE. THE TOP 50 PAVEMENT COURSE (TYPE IIIS) WILL NOT BE CONSTRUCTED AS PART OF THIS CONTRACT. THIS CONTRACT ONLY INCLUDES 100 OF TYPE IS AND 80 OF TYPE IIS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (ITEM 490.30). PLEASE REFER TO THE ROADWAY TYPICAL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



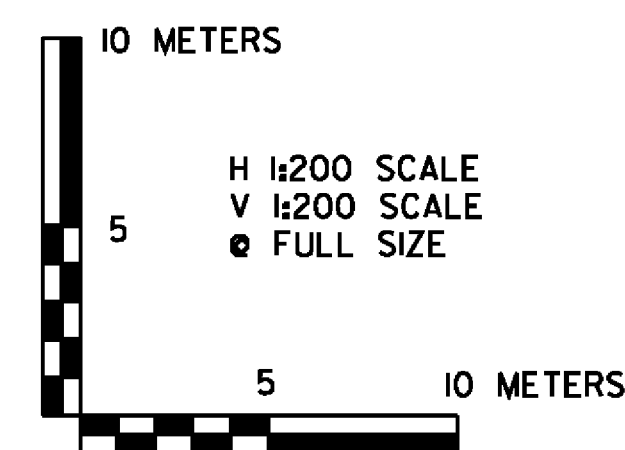
VERMONT AGENCY OF TRANSPORTATION



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
NB MAINLINE CROSS SECTIONS NBX-21		SHEET 214 OF 267

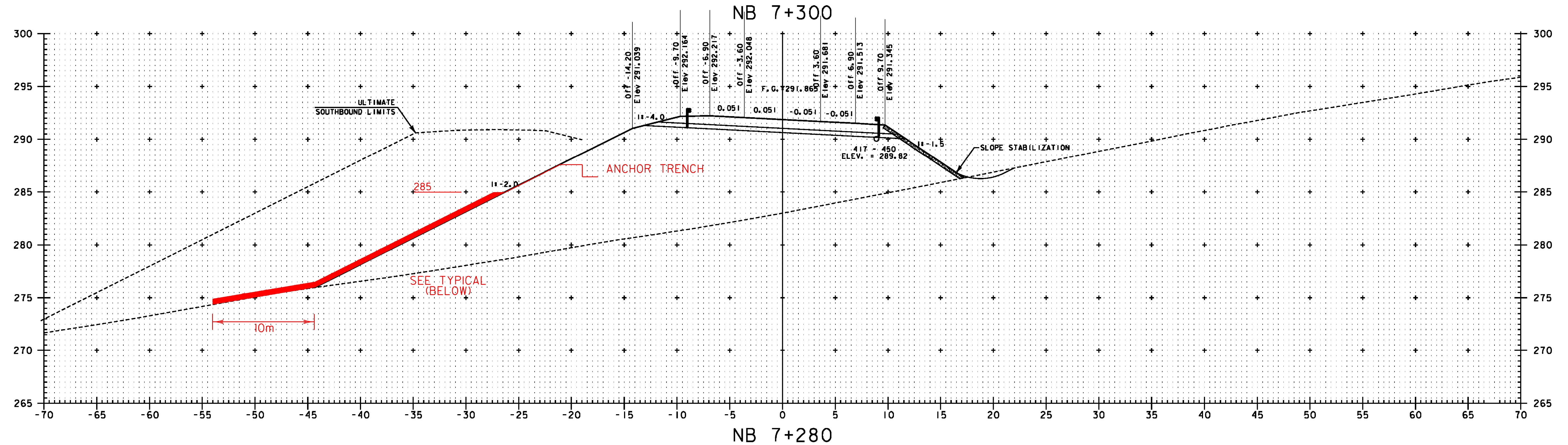
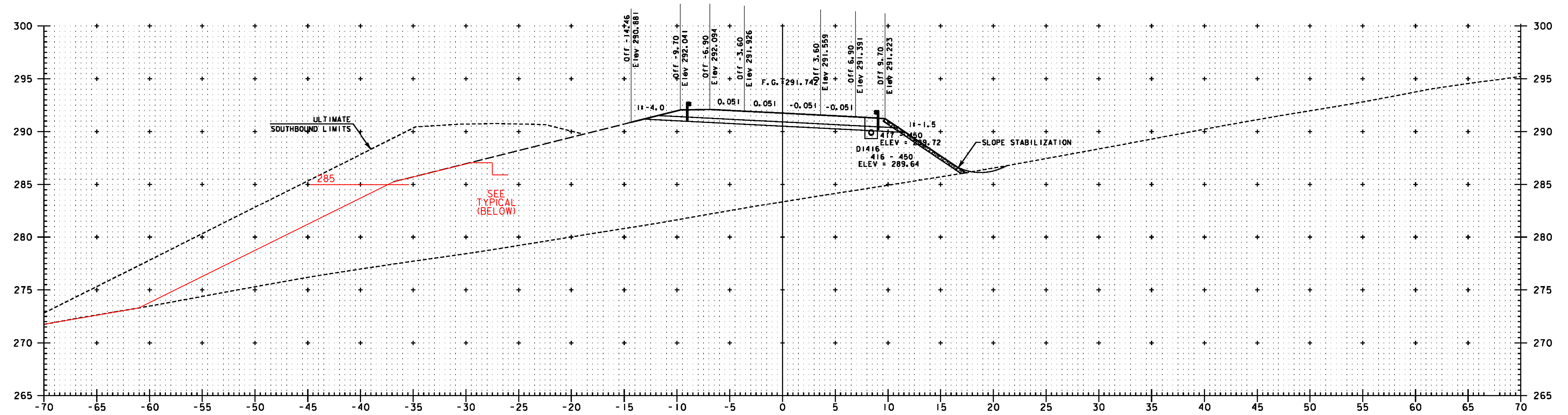


TYPICAL TRENCH
STA. NB 7+200 - 7+300

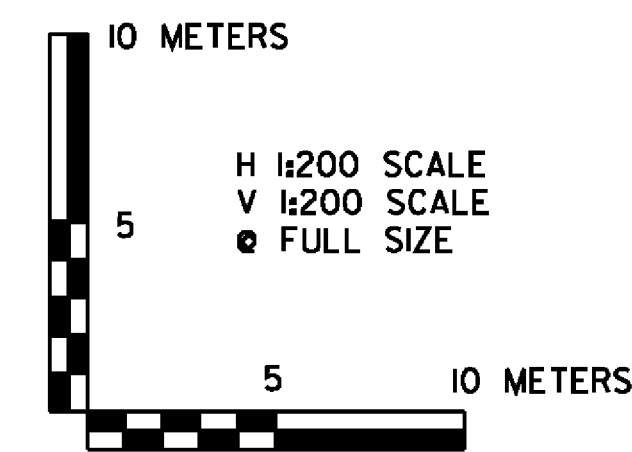
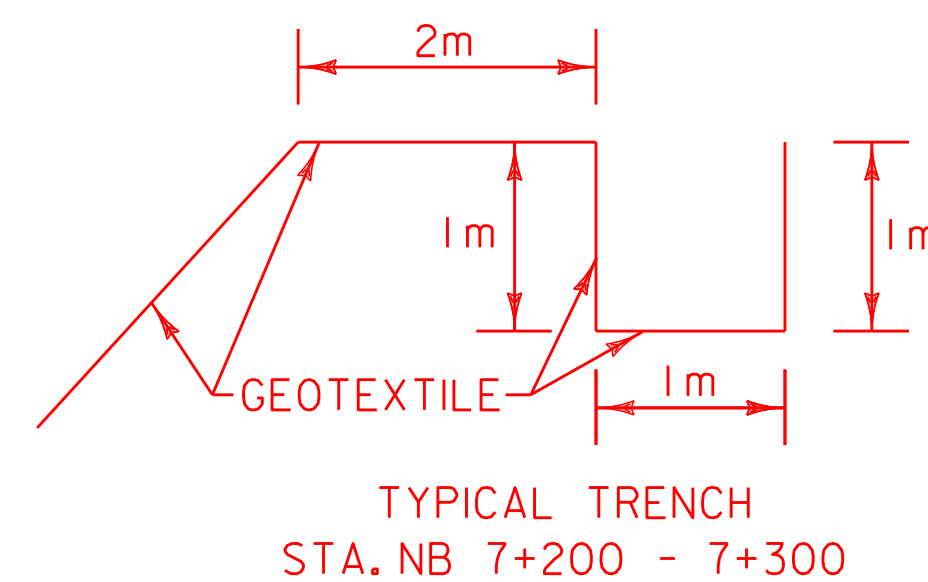


Stantec

PROJECT NAME:	BENNINGTON		
PROJECT NUMBER:	AC NH 019-1(52)		
FILE NAME:	...\\plot_files\\zd307c2xs.nb.pff	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-22		SHEET	215 OF 267



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 IS AND 80 OF TYPE IIS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (ITEM 490.30). PLEASE REFER TO THE ROADWAY TYPICAL SECTIONS FOR DETAILS.



VERMONT AGENCY OF TRANSPORTATION

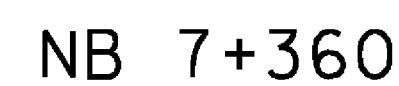
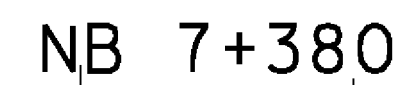


PROJECT NAME: BENNINGTON
PROJECT NUMBER: AC NH 019-(52)

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-23
SHEET 216 OF 267



10 METERS

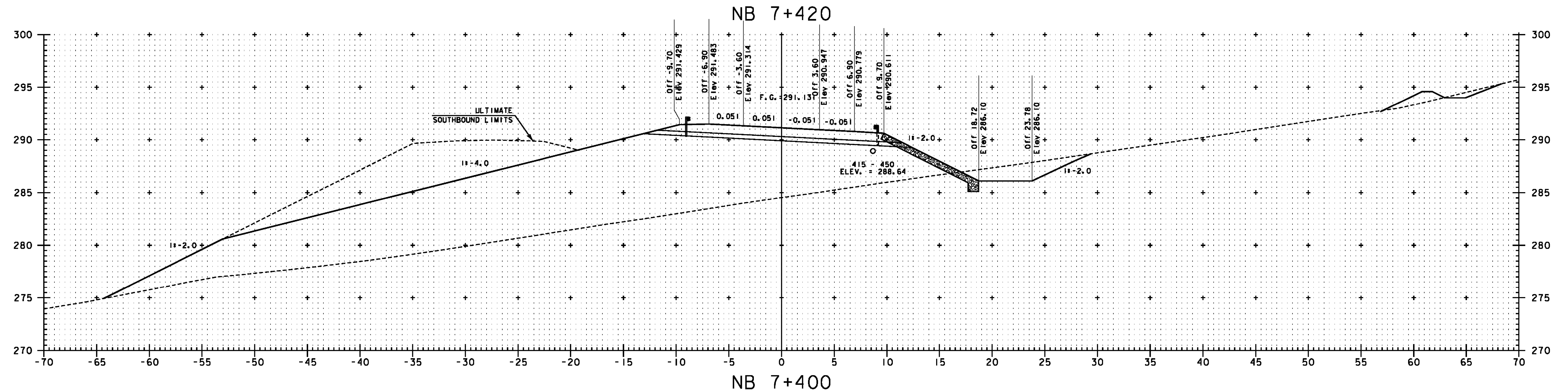
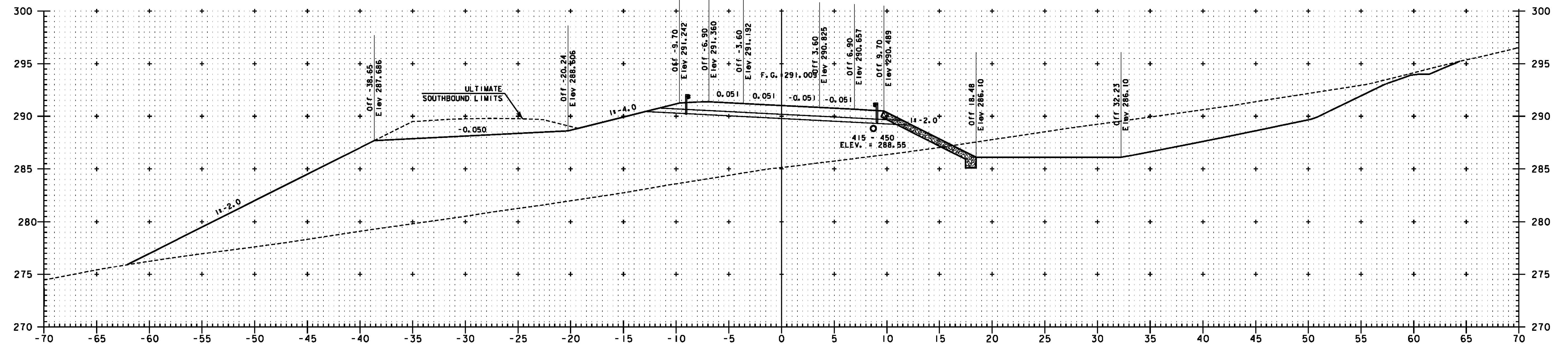
5

5 10 METERS

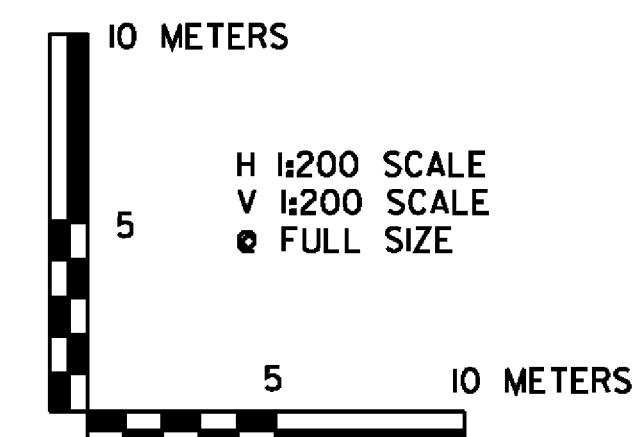
H 1:200 SCALE
V 1:200 SCALE
● FULL SIZE



PROJECT NAME:	BENNINGTON		
PROJECT NUMBER:	AC NH 019-1(52)		
FILE NAME:	...\\plot_files\\zd307c2xs.nbp.tf	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-25		SHEET	218 OF 267



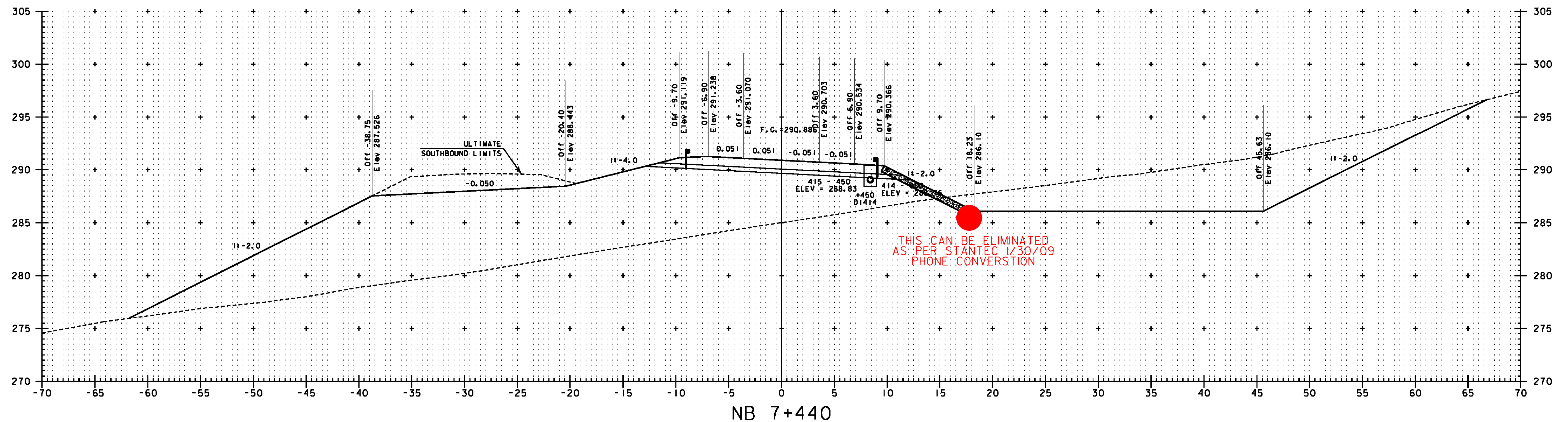
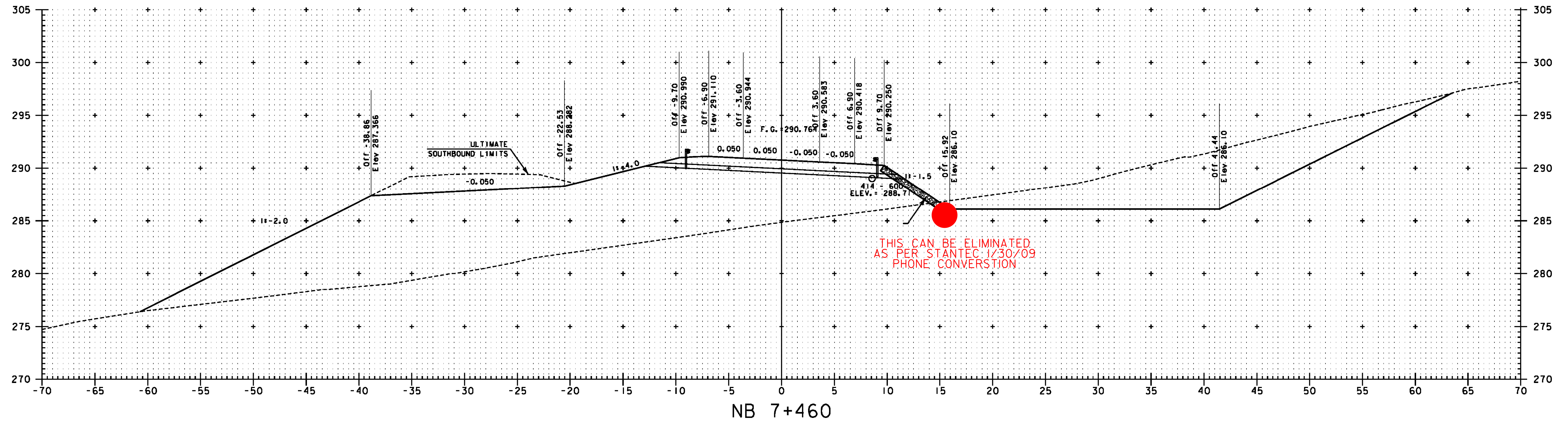
NOTE:
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SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (ITEM 490.30).
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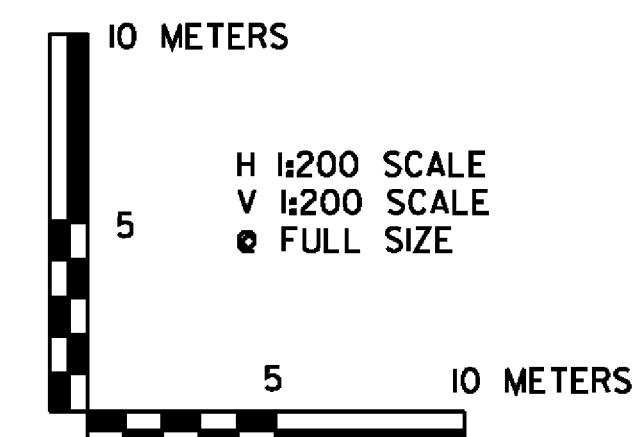
VERMONT AGENCY OF TRANSPORTATION



PROJECT NAME:	BENNINGTON
PROJECT NUMBER:	AC NH 019-(52)
FILE NAME:	...plot_files\zd307c2xs_nb.prf
DESIGN SUPERVISOR:	GREG EDWARDS
DESIGNED BY:	MARC FOISY
DRAWN BY:	STANTEC
CHECKED BY:	GARY SANTY
NB MAINLINE CROSS SECTIONS NBX-26	
SHEET 219 OF 267	



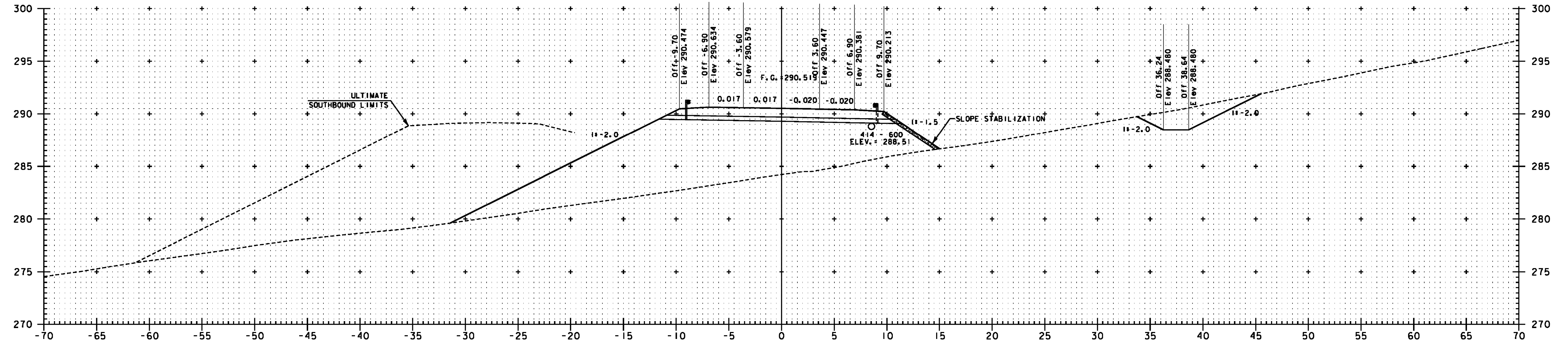
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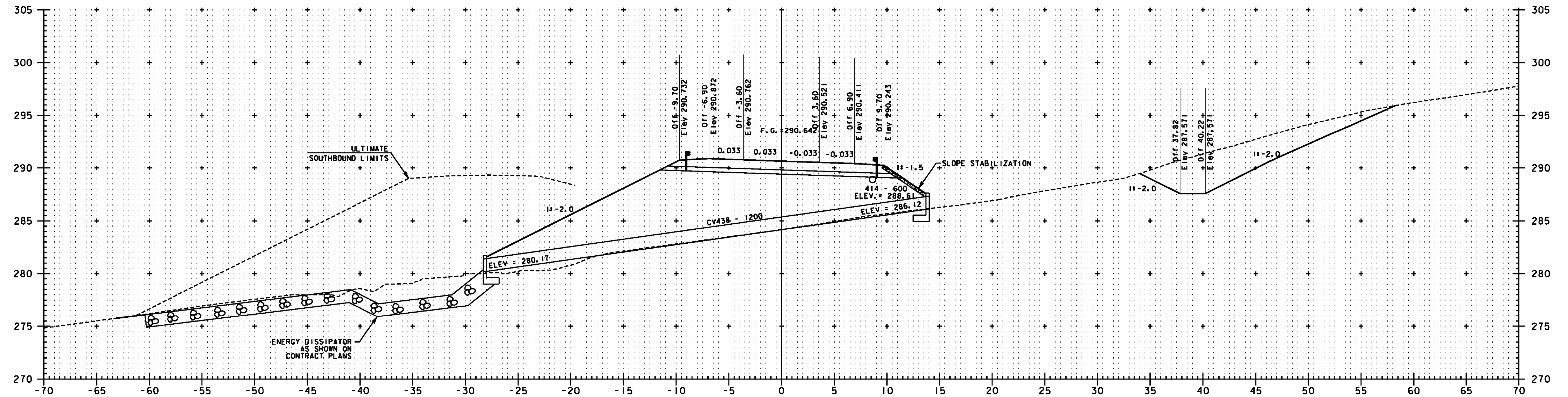
VERMONT AGENCY OF TRANSPORTATION



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

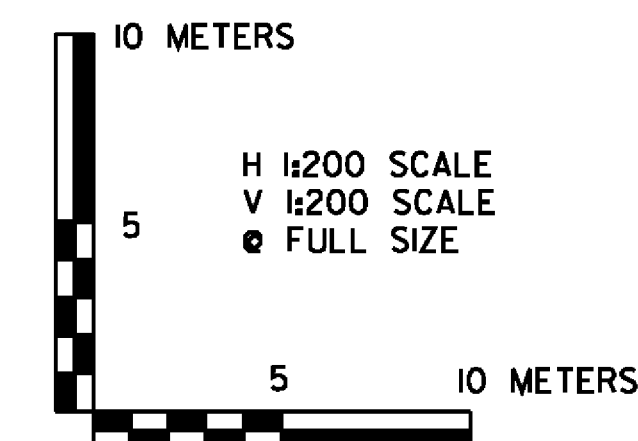


NB 7+500



NB 7+480

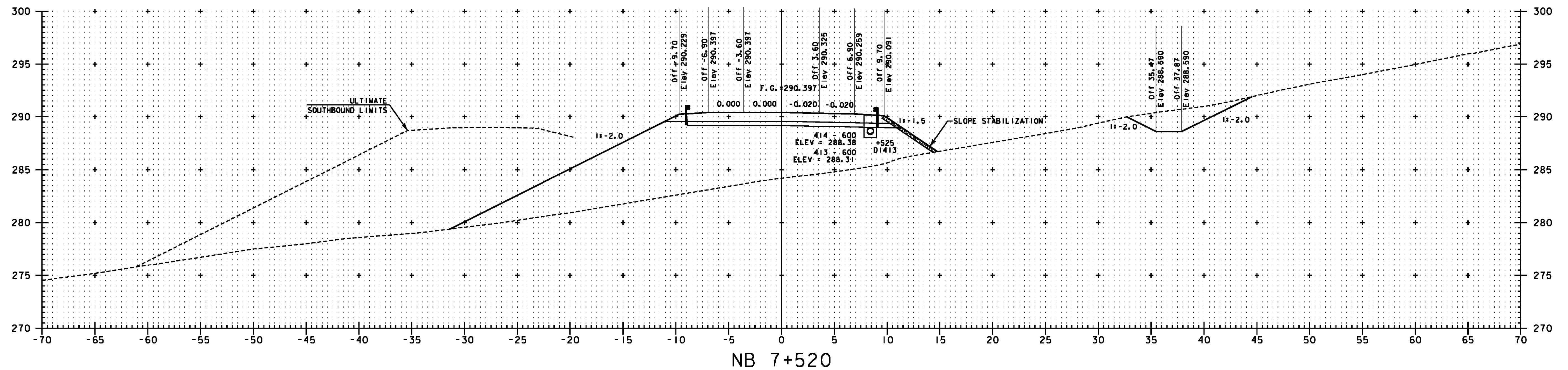
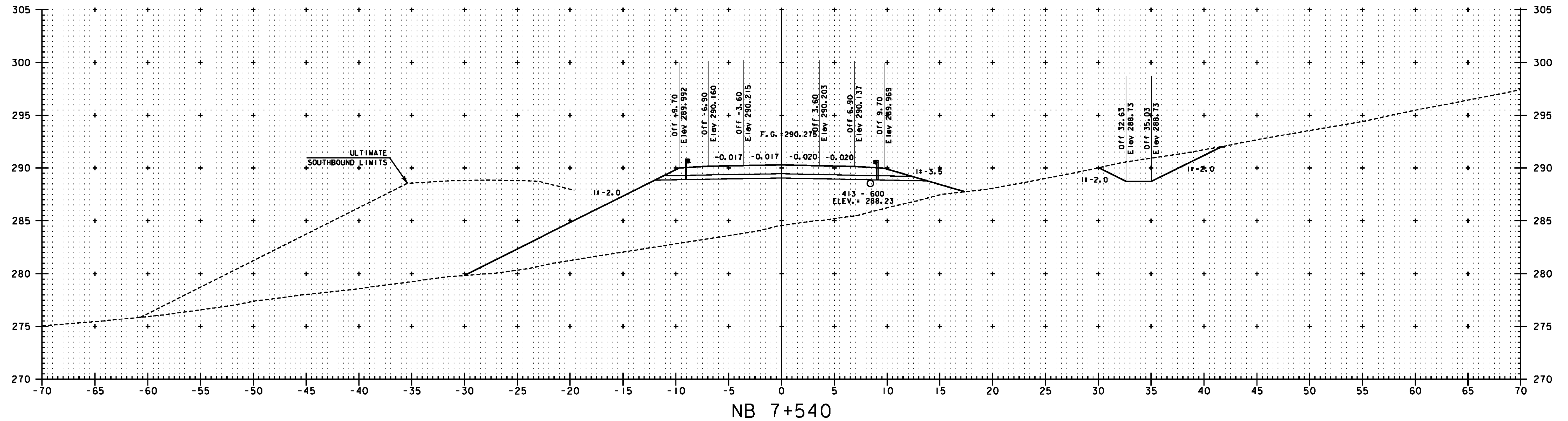
NOTE:
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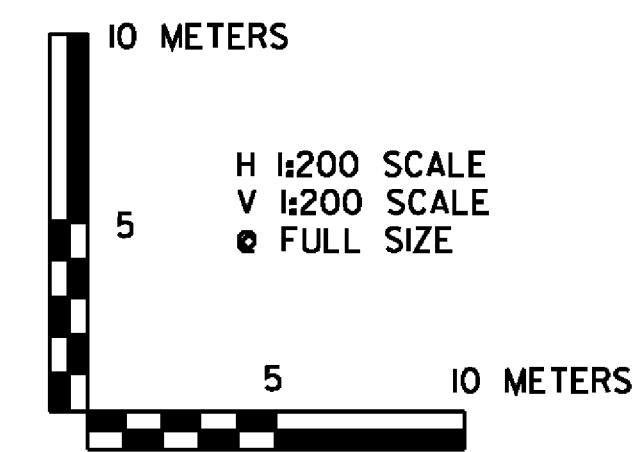
VERMONT AGENCY OF TRANSPORTATION



PROJECT NAME:	BENNINGTON	FILE NAME:	...plot_files\zd307c2xs_nb.prf	PLOT DATE:	5/16/2011
PROJECT NUMBER:	AC NH 019-1(52)	DESIGN SUPERVISOR:	GREG EDWARDS	DRAWN BY:	STANTEC
		DESIGNED BY:	MARC FOISY	CHECKED BY:	GARY SANTY
		NB MAINLINE CROSS SECTIONS NBX-28		SHEET	221 OF 267



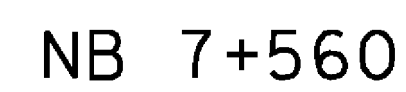
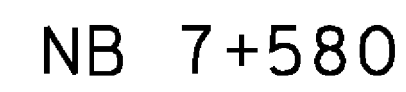
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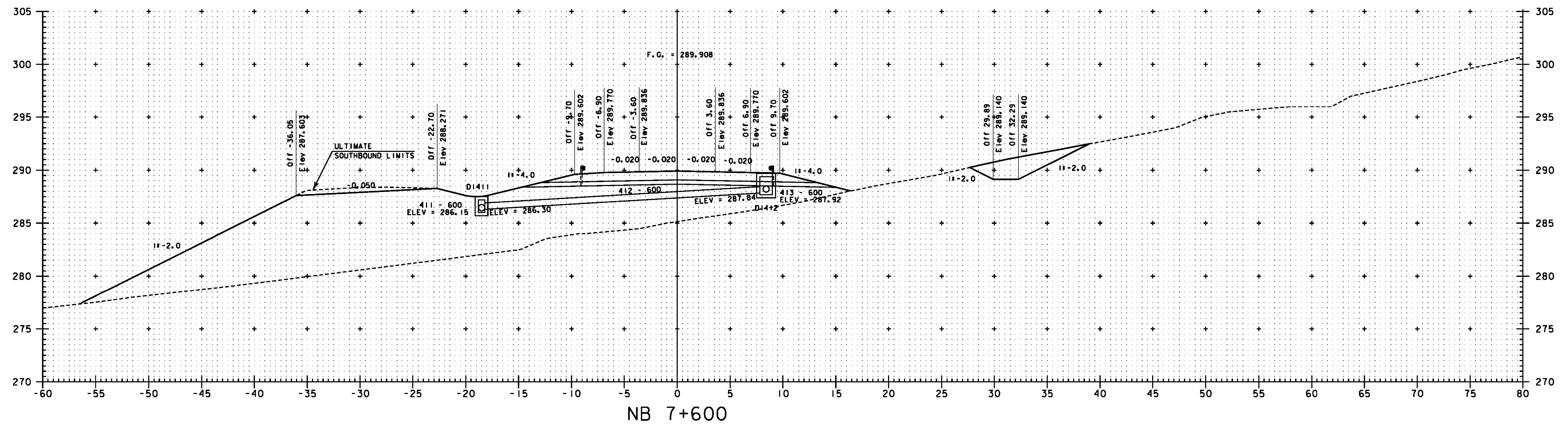
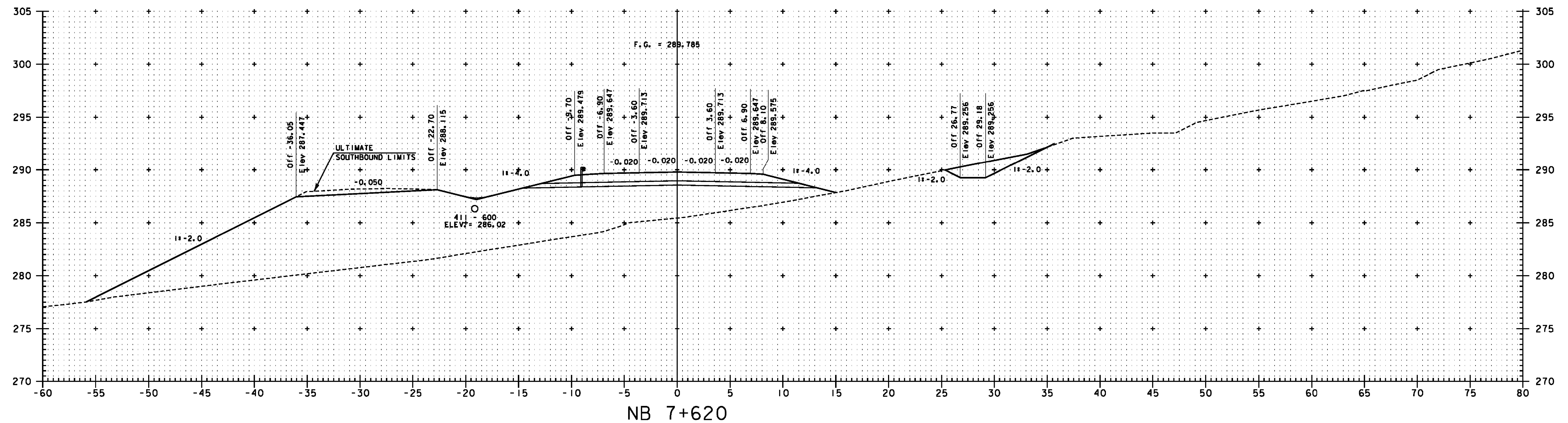
VERMONT AGENCY OF TRANSPORTATION



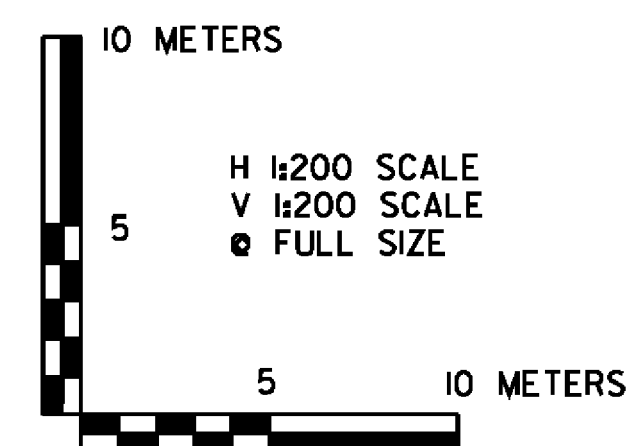
PROJECT NAME: BENNINGTON	
PROJECT NUMBER: AC NH 019-(52)	
FILE NAME: ...plot_files\zd307c2xs_nb.prf	PLOT DATE: 5/16/2011
DESIGN SUPERVISOR: GREG EDWARDS	DRAWN BY: STANTEC
DESIGNED BY: MARC FOISY	CHECKED BY: GARY SANTY
NB MAINLINE CROSS SECTIONS NBX-29	
SHEET 222 OF 267	



PROJECT NAME:	BENNINGTON	
PROJECT NUMBER:	AC NH 019-I(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
NB MAINLINE CROSS SECTIONS NBX-30		SHEET 223 OF 267



NOTE:
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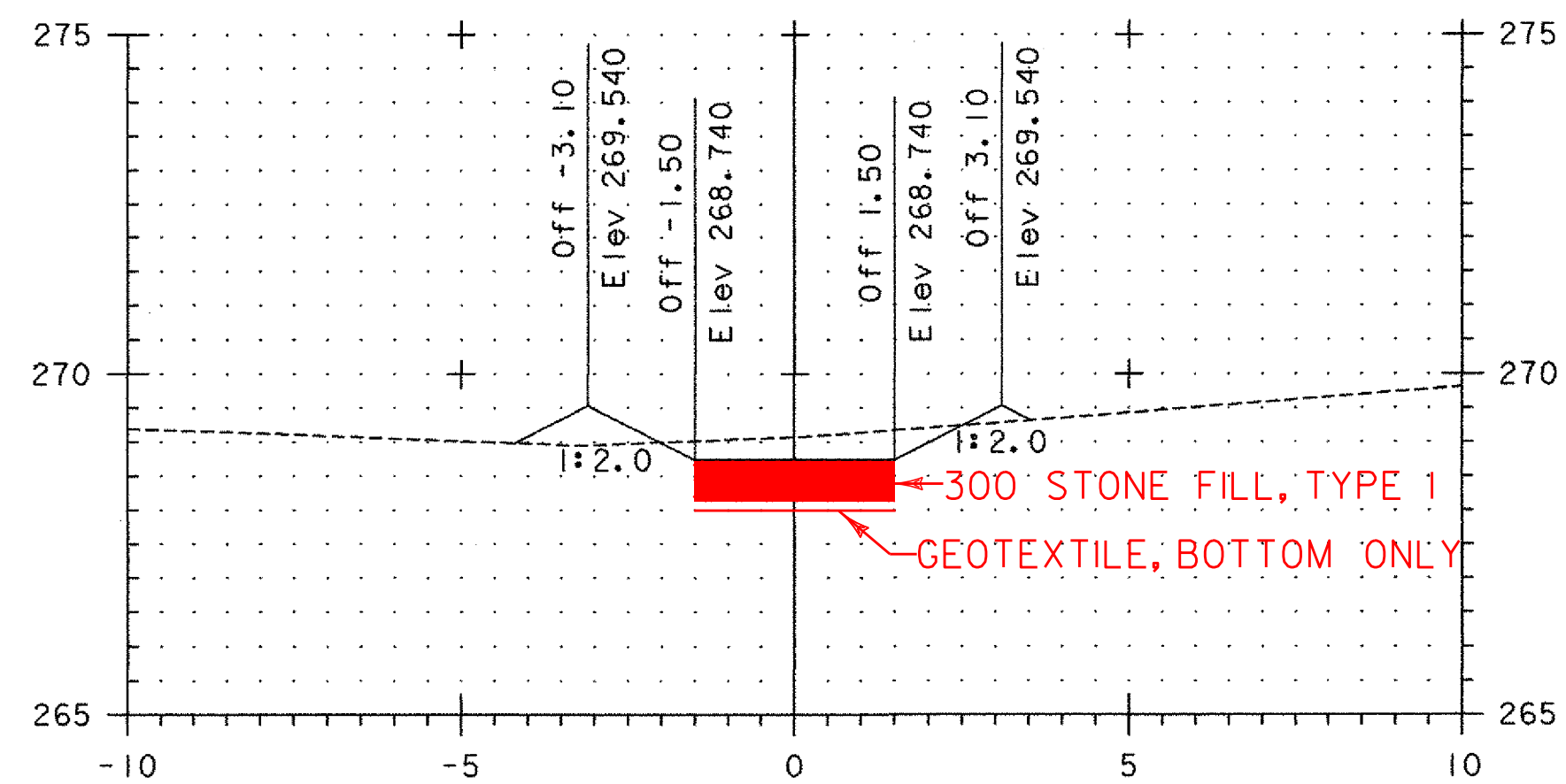


VERMONT AGENCY OF TRANSPORTATION

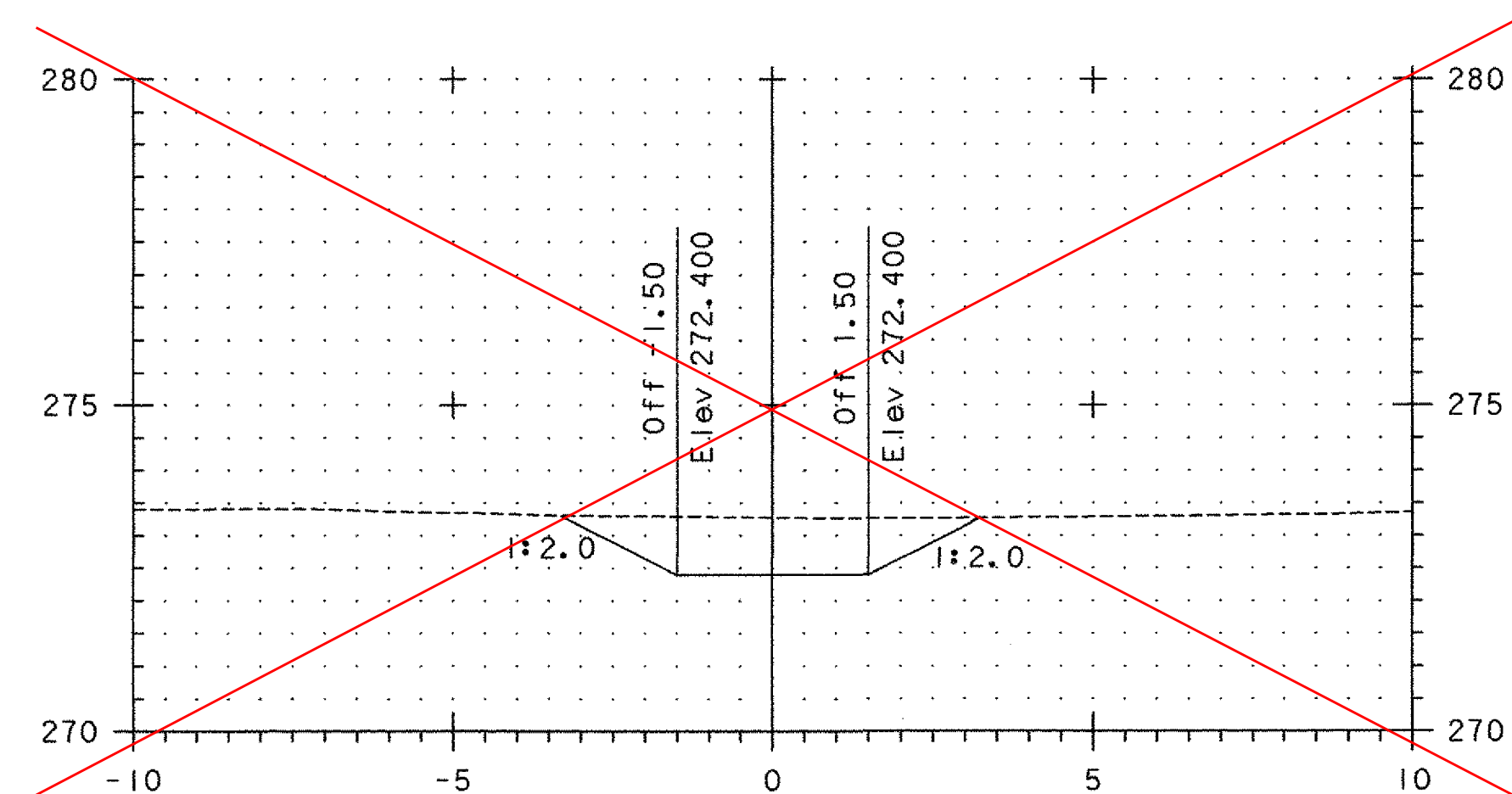


PROJECT NAME:	BENNINGTON
PROJECT NUMBER:	AC NH 019-1(52)

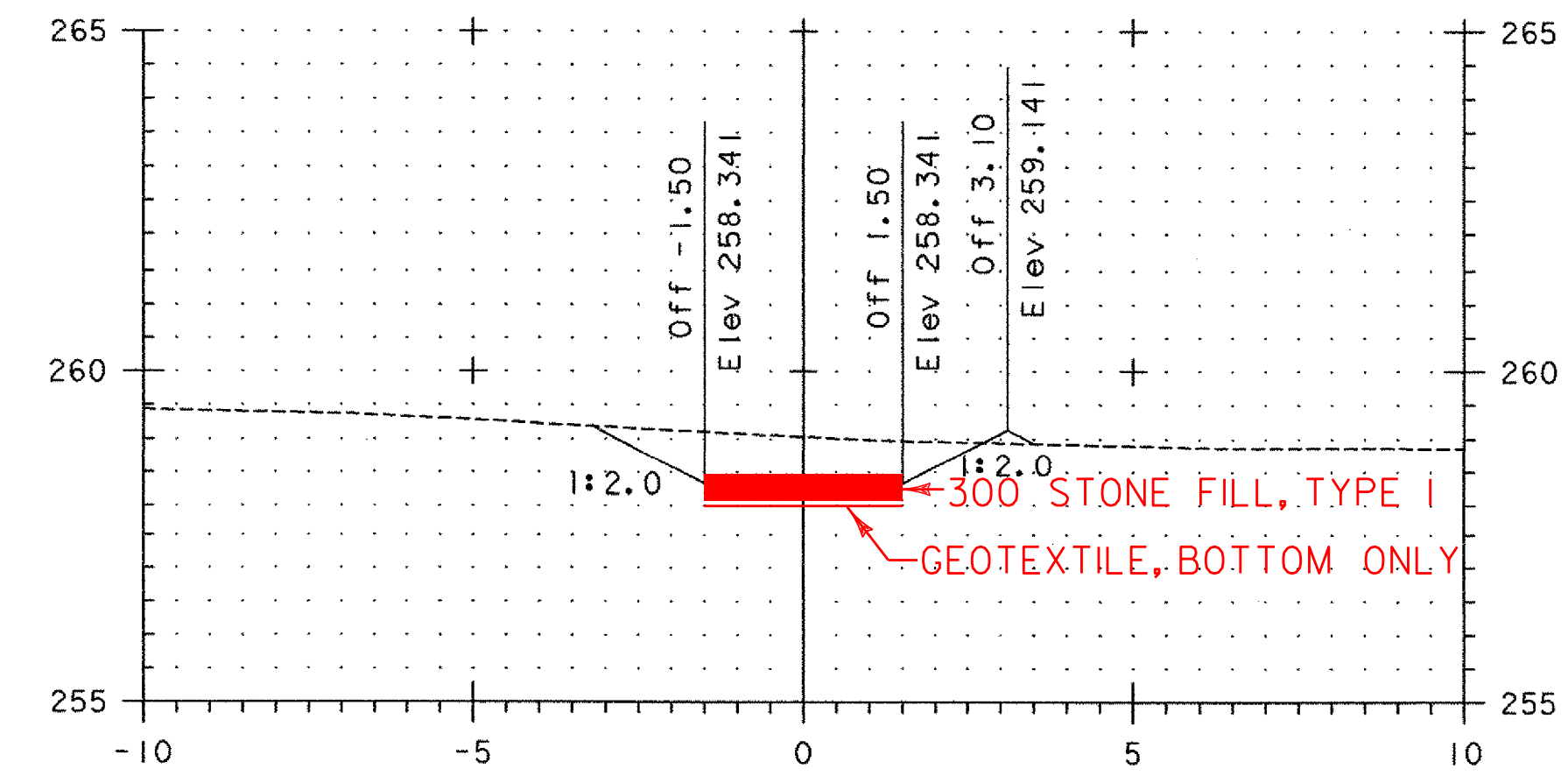
FILE NAME: ...\\plot.files\\zd307c2xs.nb.ptf	PLOT DATE: 5/16/2011
DESIGN SUPERVISOR: GREG EDWARDS	DRAWN BY: STANTEC
DESIGNED BY: MARC FOISY	CHECKED BY: GARY SANTY
NB MAINLINE CROSS SECTIONS NBX-31	SHEET 224 OF 267



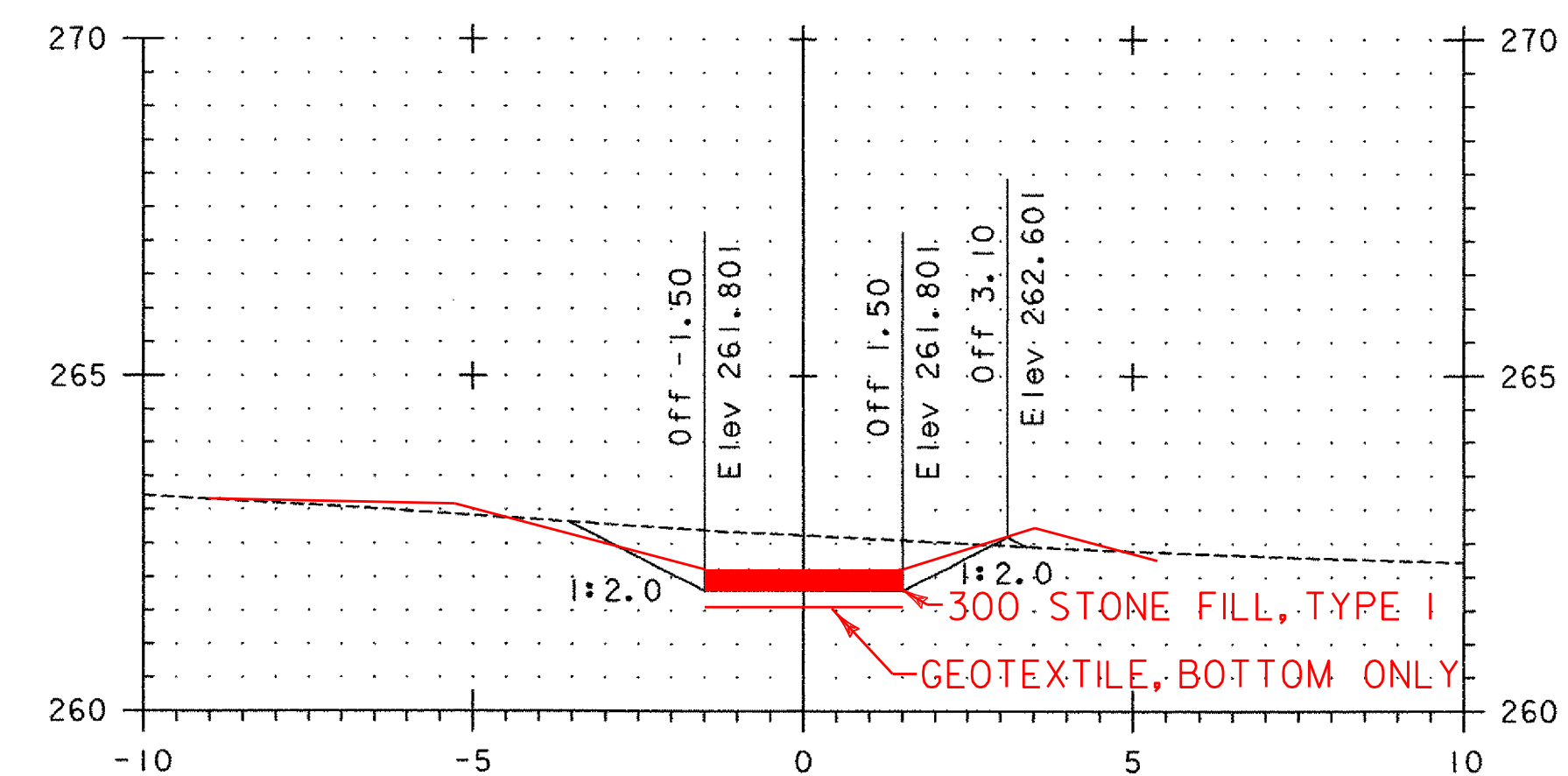
SW 10+020



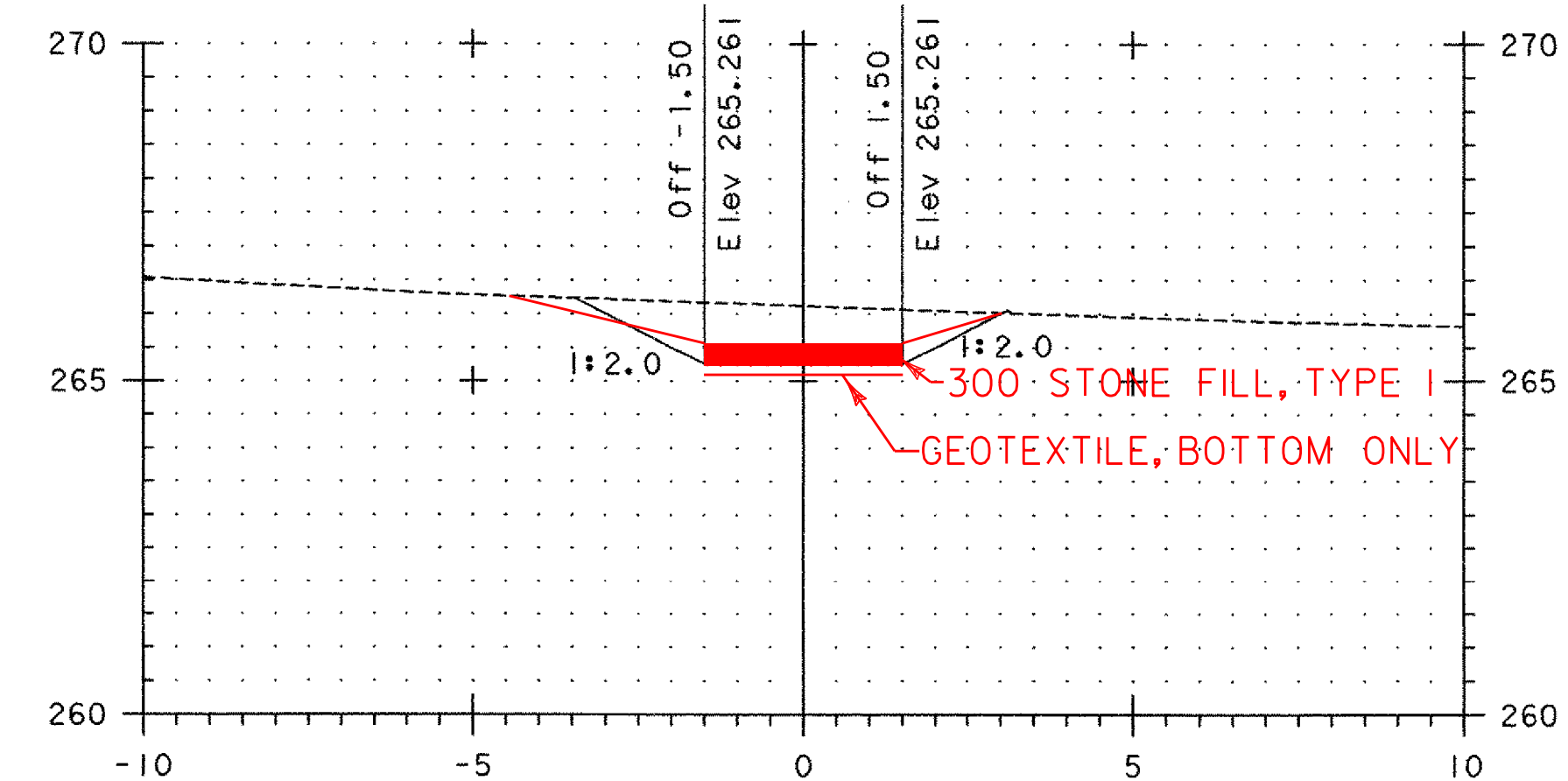
SW 10+000
SW 1+000 TO SW 1+030
IS NOT SWALE
IT IS STONE OUTLET
PROTECTION FOR CV439



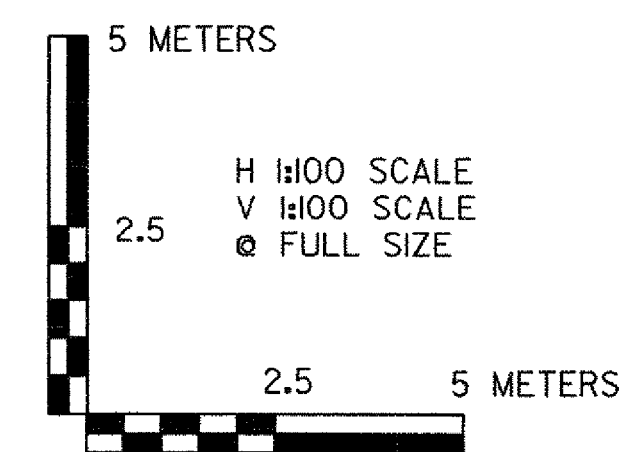
SW 10+080



SW 10+060



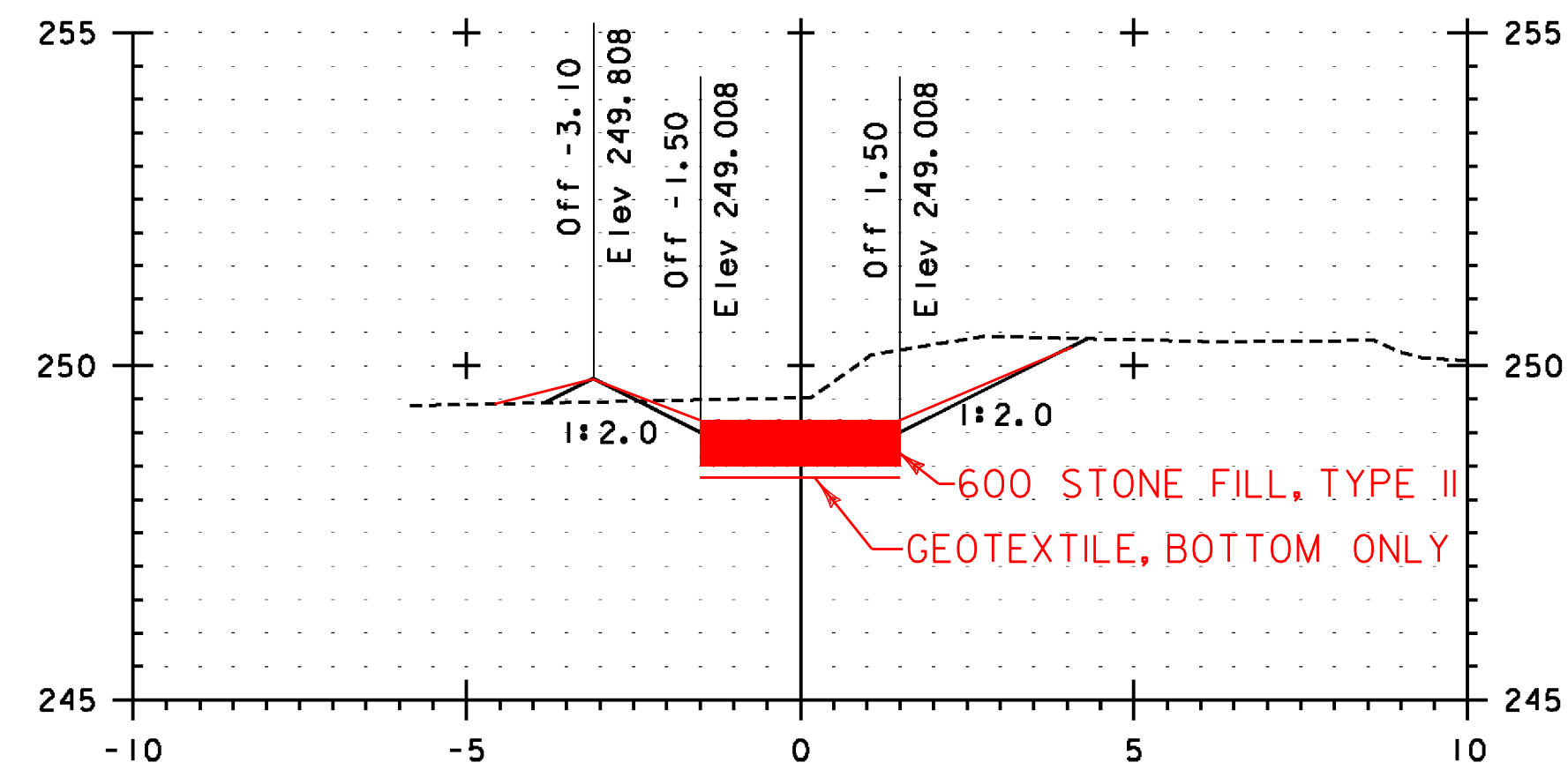
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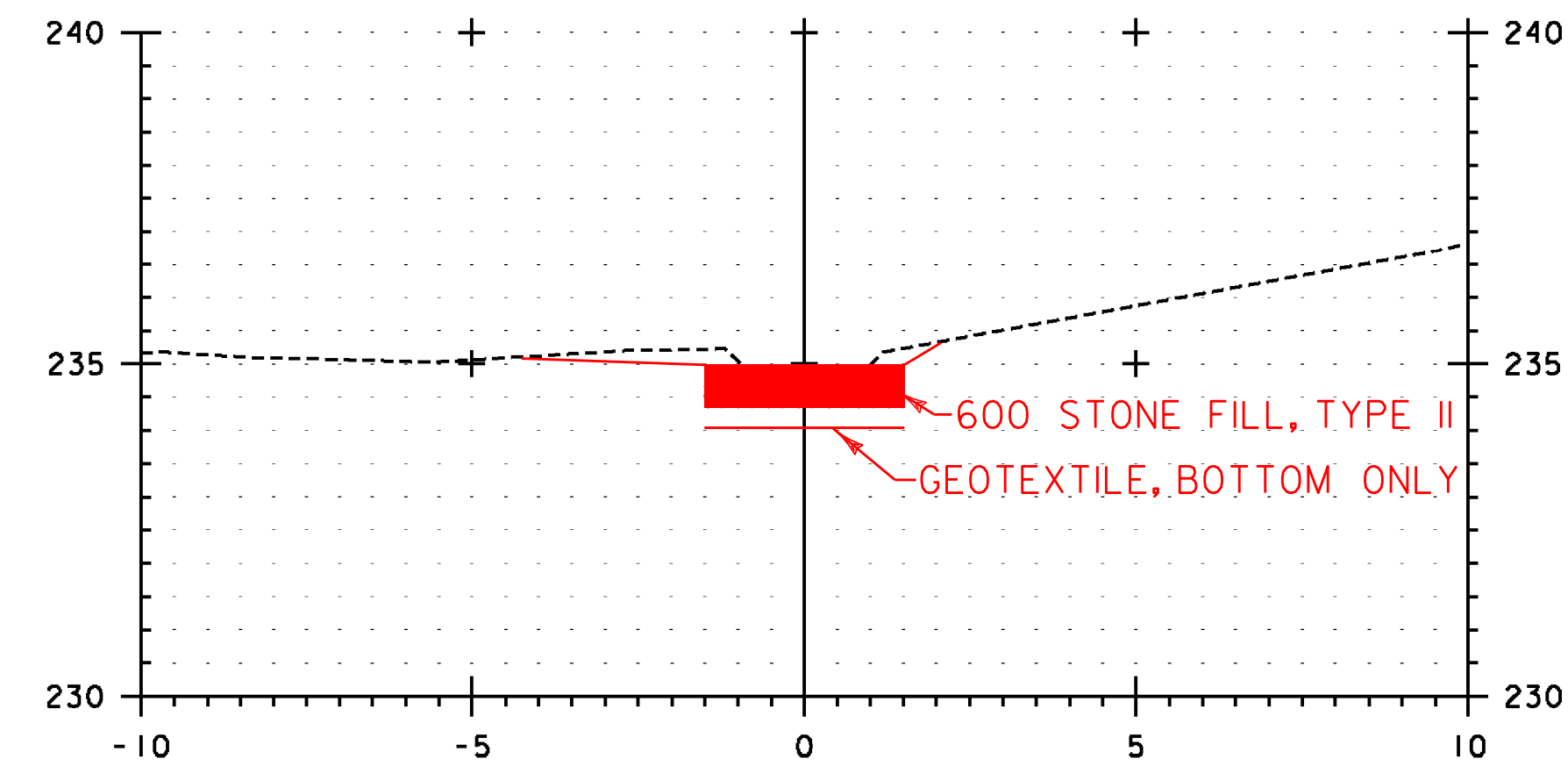
VERMONT AGENCY OF TRANSPORTATION



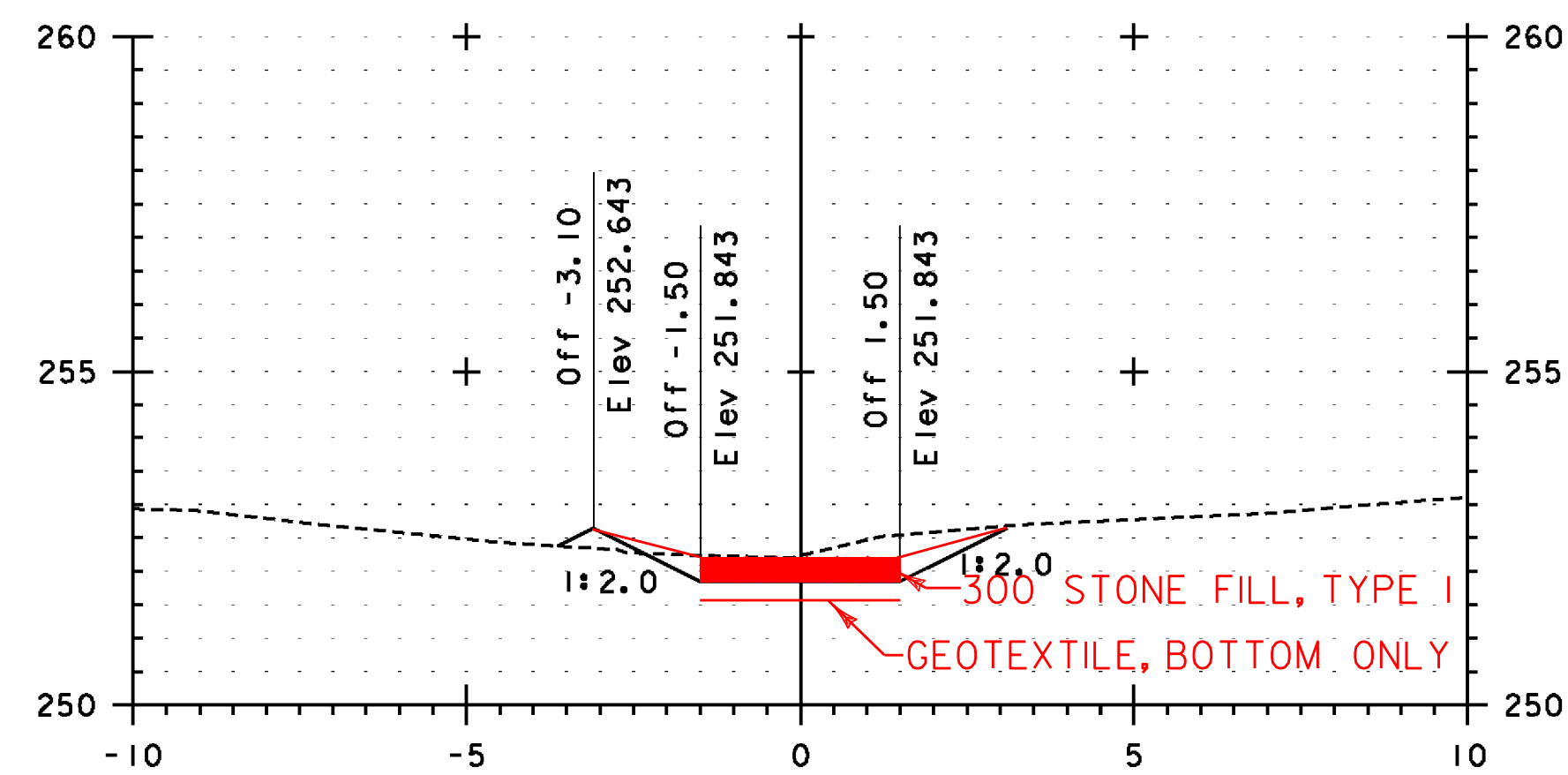
PROJECT NAME:	BENNINGTON
PROJECT NUMBER:	AC NH 019-1(52)
FILE NAME:	...vd307c2xs-prouty.ptf
DESIGN SUPERVISOR:	GREG EDWARDS
DESIGNED BY:	MARC FOISY
PROUTY SWALE CROSS SECTIONS PSX-1	
PLOT DATE:	12/20/2007
DRAWN BY:	STANTEC
CHECKED BY:	GARY SANTY
SHEET	266 OF 267



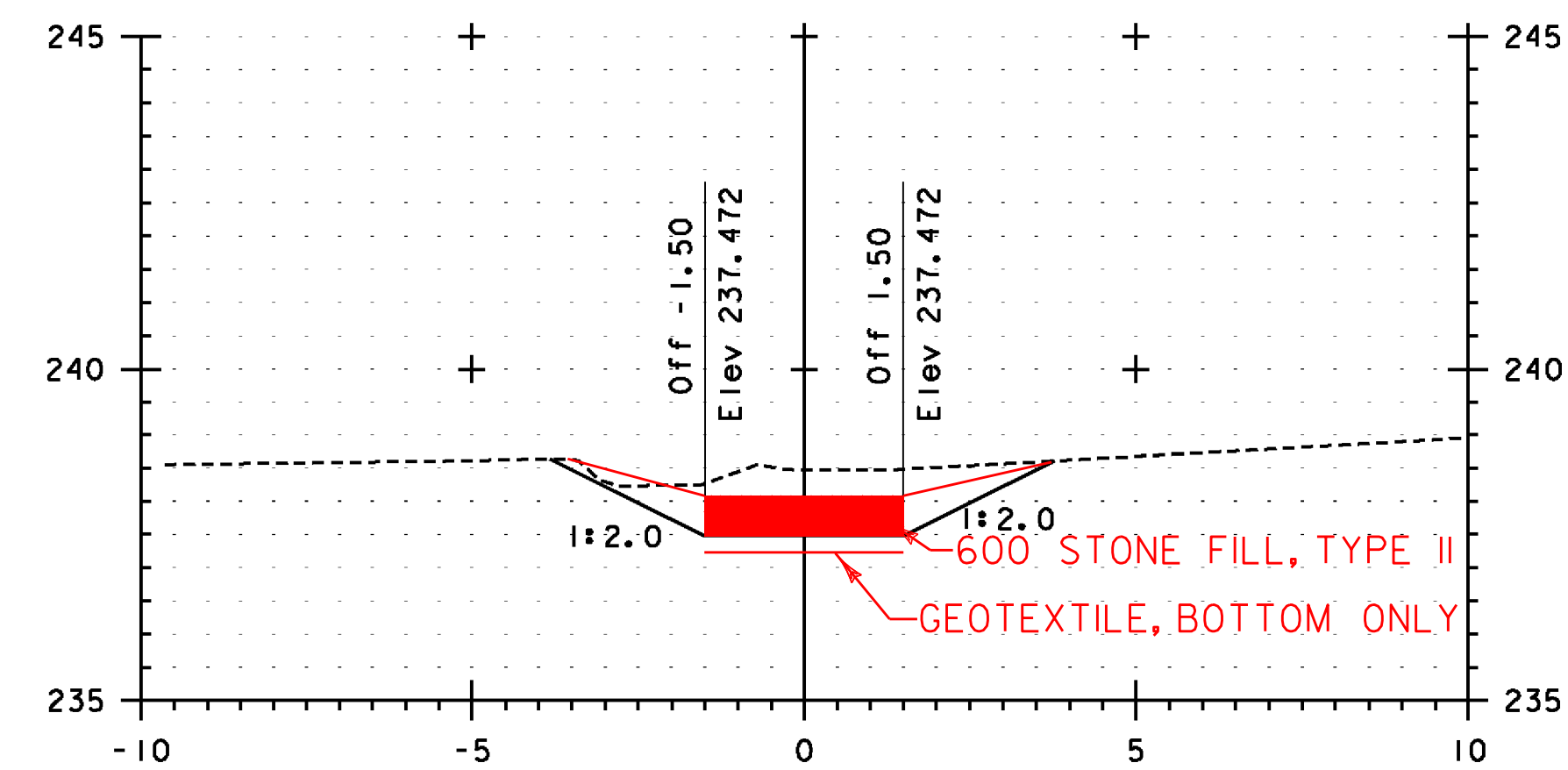
SW 10+140



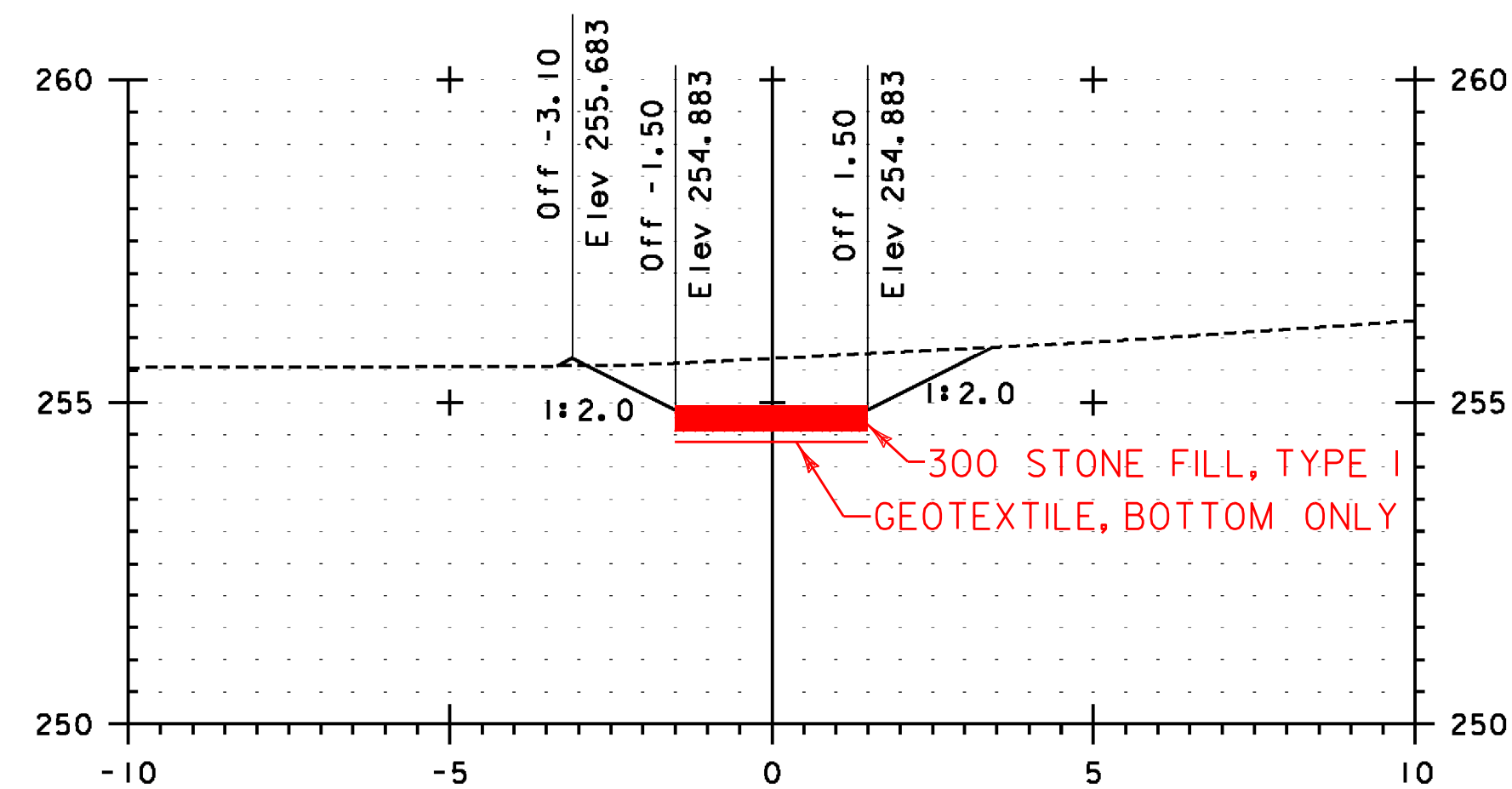
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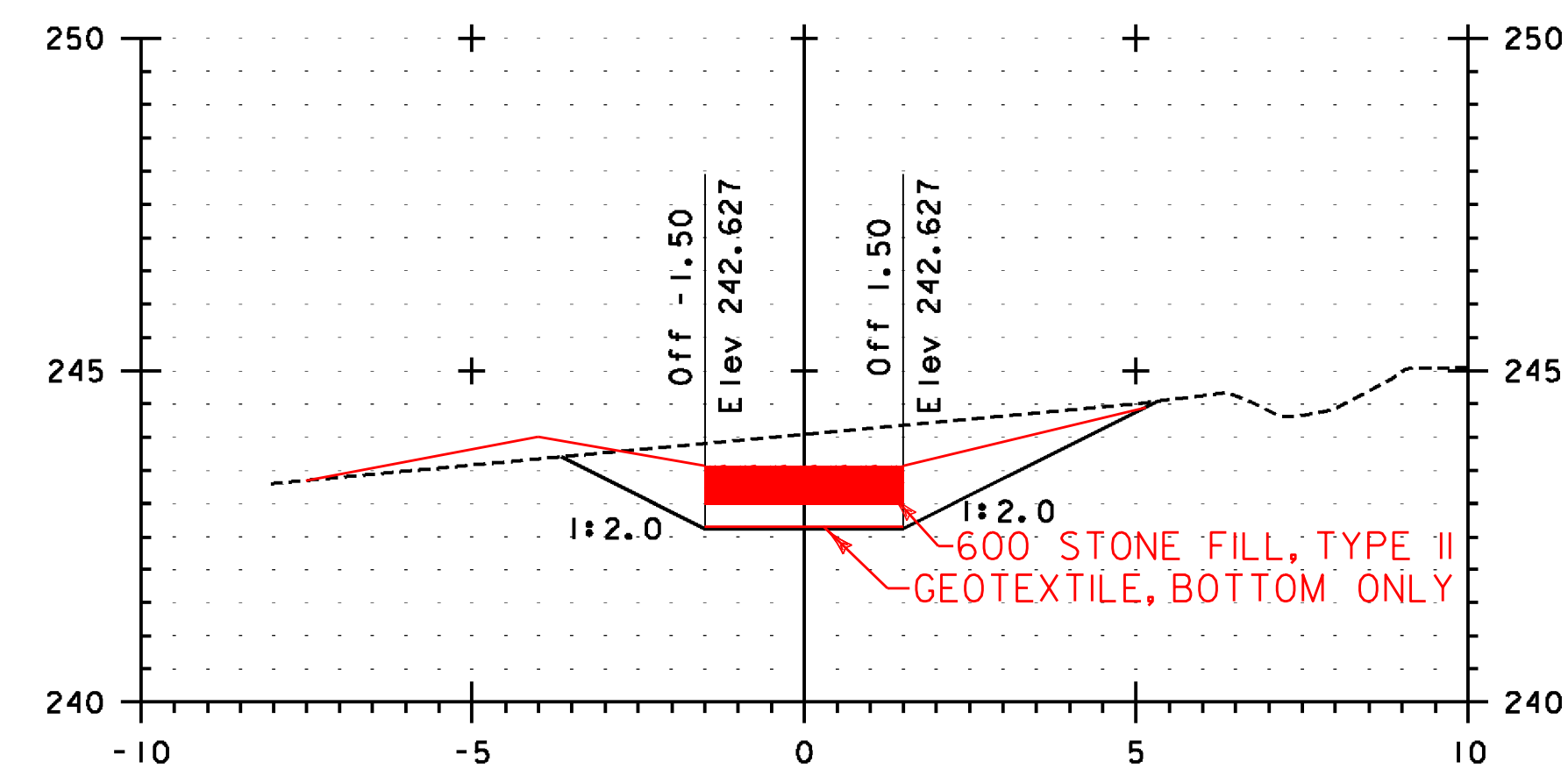
SW 10+120



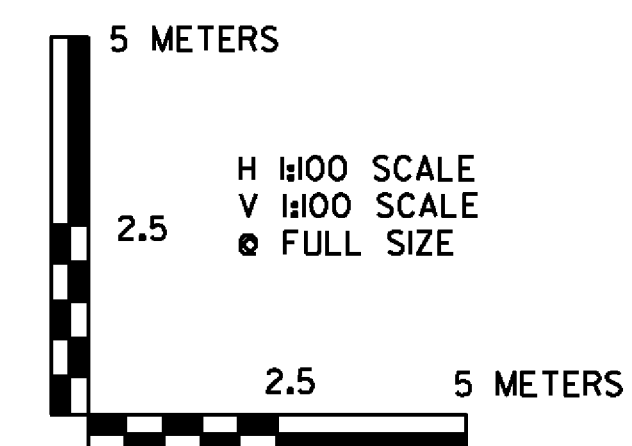
SW 10+180



SW 10+100



SW 10+160



VERMONT AGENCY OF TRANSPORTATION



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

FILE NAME: ...zd307c2xs.prouty.ptf
DESIGNED BY: MARC FOISY
PROUTY SWALE CROSS SECTIONS PSX-2
PLOT DATE: 5/18/2011
DRAWN BY: STANTEC
CHECKED BY: GARY SANTY
SHEET 267 OF 267

