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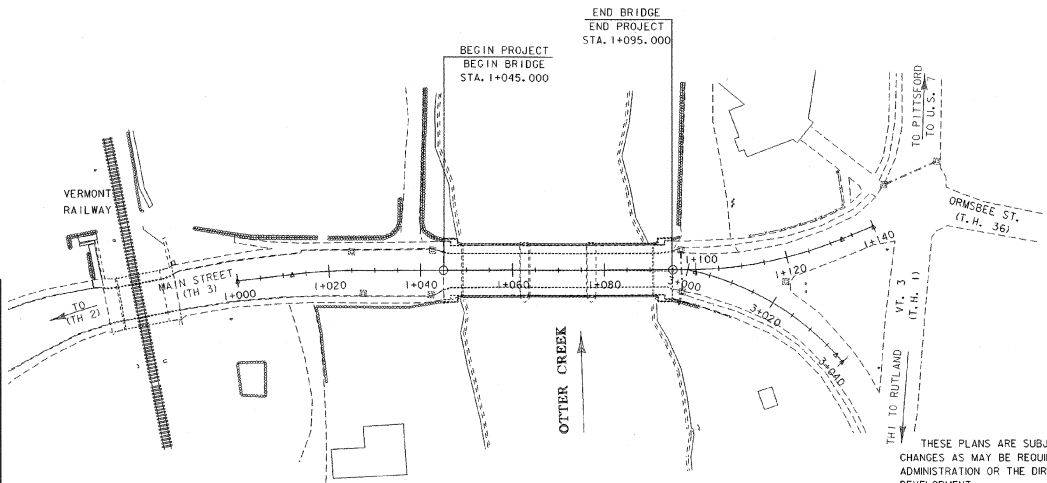
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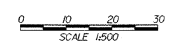
CONVENTIONAL SYMBOLS

COUNTY LINE	— — — — —
TOWN LINE	— — — — —
LIMITS OF ACCESS	○ — ○ — ○ — ○
POINT OF ACCESS	X
FENCE LINE	— X — X — X — X —
STONE WALL	— ○ — ○ — ○ — ○ —
TRAVELED WAY	— — — — —
GUARD RAIL	— — — — —
RAILROAD	— — — — —
SURVEY LINE	— — — — —
CULVERT	— — — — —
POWER POLE	⊕
TELEPHONE POLE	⊕
TREES	⊕
CONTROL OF ACCESS	— — — — —
PROPERTY LINE	— — — — —
R.O.W. TAKING LINE	— — — — —
SLOPE RIGHTS	— — — — —
TOP OF CUT	— — — — —
TOE OF SLOPE	— — — — —



SURVEYED BY : L. ORVIS
 SURVEYED DATE : MARCH 1995

DATUM
 VERTICAL NAVD 88
 HORIZONTAL NAD 83/92



STATE OF VERMONT AGENCY OF TRANSPORTATION



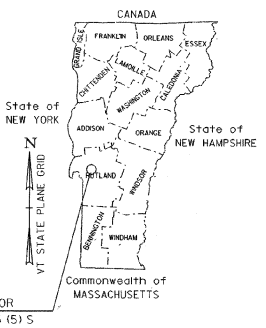
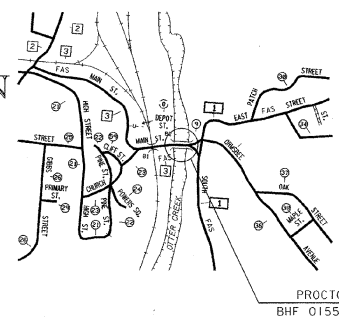
PROPOSED IMPROVEMENT BRIDGE PROJECT

TOWN OF PROCTOR
 COUNTY OF RUTLAND

ROUTE NO : TH 3; FAS 0155 (MAJOR COLLECTOR) BRIDGE NO : BR 2

PROJECT LOCATION : THE PROJECT IS LOCATED ON TH3 APPROXIMATELY 0.1 KM WESTERLY OF THE INTERSECTION OF TH #3 AND TH #1
 PROJECT DESCRIPTION : THE PROJECT SHALL CONSIST OF THE REHABILITATION OF THE EXISTING STRUCTURE, INCLUDING MINIMAL APPROACH WORK.

LENGTH OF STRUCTURE : 50.000 METERS
 LENGTH OF ROADWAY : 0.000 METERS
 LENGTH OF PROJECT : 50.000 METERS



RECORD PLANS

CONTRACTOR:	BELDEN CO. INC. RUTLAND, VT.
RESIDENT ENGINEER:	TONY COARSE
CONSTRUCTION BEGAN:	MAY 06, 2002
CONSTRUCTION COMPLETE:	JULY 25, 2003
RECORD PLANS BY:	K. NORTH & N. GARBACK

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY *Anthony Coarse* RESIDENT ENGINEER
 DATE *1/12/04*

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.

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

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

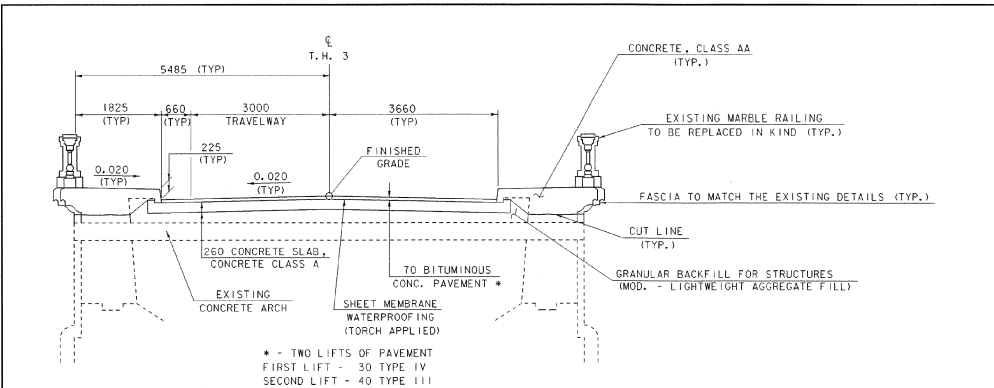
DIRECTOR OF PROJECT DEVELOPMENT
 APPROVED *[Signature]* DATE *1/12/04*

PROJECT MANAGER : G. S. ROGERS

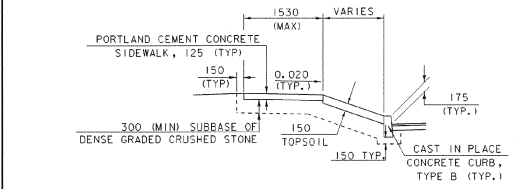
PROJECT NAME : PROCTOR
 PROJECT NUMBER : BHF 0155 (S) S

SHEET 1 OF 59 SHEETS

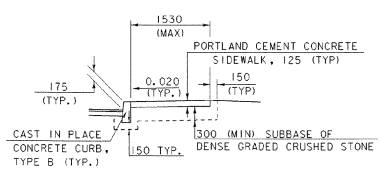
Metric
 UNLESS NOTED OTHERWISE
 STATIONS ARE IN KILOMETERS
 ELEVATIONS ARE IN METERS
 DIMENSIONS ARE IN MILLIMETERS



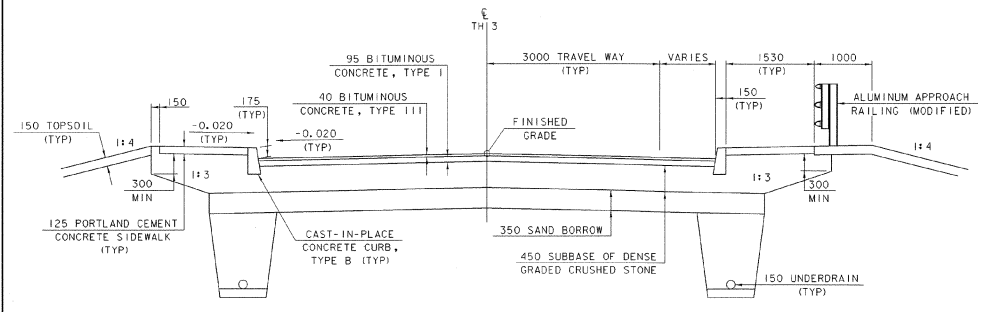
BRIDGE TYPICAL
NTS



SIDEWALK TYPICAL
STA I+095 TO STA I+135 LT
NTS



SIDEWALK TYPICAL
STA I+005 TO STA I+025
NTS



ROADWAY TYPICAL
NTS

FINAL HYDRAULICS REPORT



HYDROLOGIC DATA*

DRAINAGE AREA: 333.4 SQ. KM
 CHARACTER OF TERRAIN: STEEP WOODED UPLANDS, ROLLING MIXED LOWLANDS
 CHARACTER & TYPE OF STREAM: DAM CONTROLLED, WIDE & FLAT FLOODPLAIN
 NATURE OF STREAMBED: LEDGE, COBBLES, AND SAND

02+33= 150 CMS ** 050= 514.8 CMS
 010= 323.7 CMS 0100= 814.0 CMS
 025= 430 CMS ** 0500= 895.1 CMS

DATE OF FLOOD RECORD: NOVEMBER 1927
 WATER SURFACE ELEV.: 145.3 M ESTIMATED DISCHARGE: 1150 CMS
 NATURAL STREAM VELOCITY @ 0.25 = 3.0 MPS
 ICE CONDITIONS: MODERATE LOCAL SCOUR UNDER THE EXISTING BRIDGE
 DOES THE STREAM REACH MAXIMUM HIGHWATER ELEVATION RAPIDLY? NO
 IS ORDINARY RISE RAPID? NO
 IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? YES
 IF YES, DESCRIBE: SOUTHERLAND FALLS DAM, 150 M DOWNSTREAM

WATERSHED STORAGE: 12 HEADWATERS UNIFORM THROUGHOUT WATERSHED X
 IMMEDIATELY ABOVE SITE

EXISTING STRUCTURE

STRUCTURE TYPE: 3 - SPAN CONCRETE ARCH, MARBLE FACED YEAR BUILT: 1918
 CLEAR SPAN (NORMAL TO STREAM): 3 X 12.3 M
 VERTICAL CLEARANCE ABOVE STREAMBED: 7.0 M
 WATERWAY OF FULL OPENING: 210 SQ. M +/-
 DISPOSITION OF STRUCTURE: REHABILITATE

TYPE OF MATERIAL UNDER SUBSTRUCTURE: UNKNOWN, MOST LIKELY LEDGE

WATER SURFACE ELEV. @ 02+33= 144.35 M VELOCITY: 1.79 MPS
 010= 145.82 M " 2.56 MPS
 025= 146.55 M " 2.98 MPS
 050= 147.16 M " 3.29 MPS
 0100= 147.74 M " 3.55 MPS

LONG TERM STREAM BED CHANGES: THERE APPEARS TO BE APPROXIMATELY 2 M OF LOCAL SCOUR UNDER THE EXISTING BRIDGE
 IS THE ROADWAY OVERTOPPED BELOW THE 0100? NO FREQUENCY: 0500 +/-
 RELIEF ELEVATION: 148.05 M DISCHARGE OVER ROAD @ 0100: 0

UPSTREAM STRUCTURE: TOWN PROCTOR DISTANCE: 2800 M
 HIGHWAY NO.: VERMONT RAILWAY STRUCTURE NO.: UNKNOWN
 STRUCTURE TYPE: 2 - SPAN, STEEL TRUSS & PLATE GIRDER
 CLEAR SPAN: 27.8-35 M CLEAR HEIGHT: 5 M
 YEAR BUILT: UNKNOWN FULL WATERWAY: UNKNOWN

DOWNSTREAM STRUCTURE: TOWN PROCTOR DISTANCE: 150 M
 HIGHWAY NO.: SOUTHERLAND FALLS DAM STRUCTURE NO. 1
 STRUCTURE TYPE: CLEAR SPAN: CLEAR HEIGHT: FULL WATERWAY:

PROPOSED STRUCTURE

STRUCTURE TYPE: SAME AS EXISTING - REHABILITATION ONLY
 CLEAR SPAN (NORMAL TO STREAM): 3 X 12.3 M
 VERTICAL CLEARANCE ABOVE STREAMBED: 7.0 M
 WATERWAY OF FULL OPENING: 210 SQ. M +/-

WATER SURFACE ELEV. @ 02+33= 144.35 M VELOCITY: 1.79 MPS
 010= 145.82 M " 2.56 MPS
 025= 146.55 M " 2.98 MPS
 050= 147.16 M " 3.29 MPS
 0100= 147.74 M " 3.55 MPS

IS THE ROADWAY OVERTOPPED BELOW THE 0100? NO FREQUENCY: 0500 +/-
 RELIEF ELEVATION: 148.05 M DISCHARGE OVER ROAD @ 0100: 0

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: 148.2 M +/-
 VERTICAL CLEARANCE @ 0100 = 0.5 M +/-

SCOUR: THE DAM DOWNSTREAM & LEDGE SHOULD LIMIT THE POTENTIAL FOR SCOUR
 REQUIRED CHANNEL PROTECTION: NONE

PERMIT INFORMATION

AVERAGE DAILY FLOW: 21.3 CMS
 ORDINARY LOW WATER: 9.23 CMS ELEV: 143.6 M
 ORDINARY HIGH WATER: 64.42 CMS ELEV: 146.0 M

ADDITIONAL COMMENTS

* DRAINAGE AREA, FLOWS, AND WATER SURFACE ELEVATIONS FROM PROCTOR F. I. S., 1978.
 ** INTERPOLATED VALUE

DESIGN CRITERIA:

- DESIGN LIVE LOAD: AASHTO MS-18
- DESIGN SPAN THREE SPANS AT 16.56 m FOR A TOTAL OF 49.68 m
- ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL: N/A ON LEDGE: N/A
- ALLOWABLE LOAD FOR PILING: N/A TYPE: N/A ESTIMATED LENGTH: N/A
- STRUCTURAL STEEL: AASHTO GRADE: N/A
- REINFORCING STEEL: GRADE 420
- CONCRETE CLASS A: $f_c = 30 \text{ MPa}$
 CONCRETE CLASS B: $f_c = 25 \text{ MPa}$

TRAFFIC MAINTENANCE:

- IS TRAFFIC TO BE MAINTAINED? PED. ONLY IF YES, ON EXISTING STRUCTURE: N/A OR ON TEMPORARY BRIDGE: YES
- TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY: N/A TRAFFIC CONTROL SIGNALS REQUIRED: N/A
 MINIMUM CLEAR SPAN (NORMAL TO STREAM): 95 M (TO SPAN CHANNEL) VERTICAL CLEARANCE ABOVE STREAM: LOW CRISP SHOULD BE AT 145.8m MIN.
 WATERWAY OF FULL OPENING: 150 SQ. M +/- (CONTROLLED BY ABOVE)
 ARE SIDEWALKS REQUIRED? N/A IF SO, ON WHAT SIDE? N/A
 STRUCTURE TYPE: PEDESTRIAN, MULTI-SPAN IS ACCEPTABLE IF NECESSARY. TEMP. PIERS TO LINE UP WITH EXISTING PIERS

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	% DTT
1999	2970	415	50	2	60
2019	4020	555	50	2	70

20 year ESAL for flexible pavement from 1999 to 2019: 578,000
 40 year ESAL for flexible pavement from 1999 to 2039: 1,798,000
 Design speed: 40 km/h

MINIMUM BEAM ELEVATION 145.8 M

45.0 M MIN. NORMAL TO STREAM

TEMPORARY BRIDGE
NTS

THE CONTRACTOR SHALL NOT CUT THE STREAM BANK IN ORDER TO PROVIDE THE MINIMUM WATERWAY OPENING.

SHEET NAME: PRELIMINARY INFORMATION SHEET

PROJECT NAME: PROCTOR HIGHWAY NO.: TH 3
 PROJECT NUMBER: BHF 0155(S) BRIDGE NO.: 2
 OVER: OTHER CREEK

FILE NAME: /str1/94j088/sj0881yp.dgn PLOT DATE: 12-FEB-2002
 PROJECT MANAGERS: C.S. ROGERS DRAWN BY: J. GILMORE
 DESIGNED BY: C. MEUNIER (FARM NAME: sj088p1)
 BRIDGE SHEET NUMBER: SHEET 2 OF 59

QUANTITY SHEET



SUMMARY OF ESTIMATED QUANTITIES						TOTALS			DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES		
	ROADWAY	BRIDGE	MARBLE DISPLAY	EROSION	FULL C.E.	ROUND		FINAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS
	1							1	LS	CLEARING AND GRUBBING (INCLUDING INDIVIDUAL TREES AND STUMPS)	201.10			
	910							910	CM	COMMON EXCAVATION	203.15			
	60					(EST)		60	CM	SOLID ROCK EXCAVATION	203.16			
	130							130	CM	SAND BORROW	203.31			
	230			10				240	CM	TRENCH EXCAVATION OF EARTH	204.20			
	15							15	CM	TRENCH EXCAVATION OF ROCK	204.21			
	140		5					145	CM	GRANULAR BACKFILL FOR STRUCTURES	204.30			
		1000						1000	CM	GRANULAR BACKFILL FOR STRUCTURES - LIGHTWEIGHT AGGREGATE FILL (MOD.)	204.30			
	380							380	SM	COLD PLANING-BIT PAVEMENT	210.10			
	370			40				410	CM	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35			
	70							70	KG	EMULSIFIED ASPHALT	404.65			
	240	62						302	T	BITUMINOUS CONCRETE PAVEMENT (PG 58-28)	406.25			
	10	117						127	CM	CONCRETE, CLASS AA	501.21			
		101						101	CM	CONCRETE, CLASS A	501.22			
	13		2					15	CM	CONCRETE, CLASS B	501.25			
		1						1	CM	MORTAR, TYPE I	501.55			
	200					(EST)		200	SM	TEMPORARY STEEL SHEET PILING	505.36			
	610							610	KG	REINFORCING STEEL	507.15			
		160	10					170	M	DRILLING AND GROUTING DOWELS	507.16			
	550	14760	95					15405	KG	EPOXY COATED REINFORCING STEEL	507.17			
		475	4					479	L	WATER REPELLENT	514.10			
		370						370	SM	SHEET MEMBRANE WATERPROOFING (TORCH APPLIED)	519.20			
		30						30	M	JOINT SEALER, POLYURETHANE	524.21			
		50						50	M	REMOVAL OF EXISTING RAILING (HAND RAIL)	525.10			
		100						100	M	REMOVAL OF EXISTING RAILING (MARBLE RAIL)	525.10			
		100						100	M	RESETTING RAILING (MARBLE RAIL)	525.11			
			9					9	M	RESETTING RAILING (DISPLAY)	525.11			
	22							22	M	RESETTING RAILING (METAL HAND RAILING)	525.11			
		15						15	M	BRIDGE RAILING-3 RAIL ALUMINUM (MODIFIED)	525.22			
		1						1	LS	TEMPORARY PEDESTRIAN BRIDGE	528.12			
		367						367	SM	REMOVAL OF BRIDGE PAVEMENT	529.10			
		1						1	EACH	PARTIAL REMOVAL OF STRUCTURE	529.20			
		30						30	L	EPOXY MORTAR	530.30			
		300				(EST)		300	SM	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE CLASS II	580.14			
		40				(EST)		40	CM	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE CLASS III	580.15			
										BEGIN PIPE OPTIONS				
	54							54	M	450 mm PCCSP 2.01 mm (68 mm X 12 mm)	601.0415			
									M	450 mm CAAP 1.91 mm (68 mm X 12 mm)	601.0216			
									M	450 mm CPEP	601.0915			
										END PIPE OPTIONS				
						(EST)		10	CM	DRY RUBBLE MASONRY	602.20			
						(EST)		15	SM	STONE MASONRY FACING	602.25			
		5						5	EACH	CAST IRON GRATE WITH FRAME, TYPE D	604.47			
		60						60	M	150 mm UNDERDRAIN	605.10			
								1	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I (NOT A BID ITEM)	608.25			

PROJECT NAME:	PROCTOR		
PROJECT NUMBER:	BHF 0155(5)S		
FILE NAME:	1st-1704088/qj088qnl.sds	PLOT DATE:	10/18/01
PROJECT LEADER:	G.S. ROGERS	DRAWN BY:	J. GILMORE
DESIGNED BY:	C. MEUNIER	CHECKED BY:	C. MEUNIER
QUANTITY SHEET #1		SHEET	3 OF 59

QUANTITY SHEET



SUMMARY OF ESTIMATED QUANTITIES										TOTALS			DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES		
				ROADWAY	BRIDGE	MARBLE DISPLAY	EROSION	FULL C.E.		ROUND	FINAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS	
				5			10			15		CM	STONE FILL, TYPE I	613.10				
				115						115		M	CAST-IN PLACE CEMENT CONCRETE CURB, TYPE B	616.28				
				230						230		SM	PORTLAND CEMENT CONCRETE SIDEWALK 125 MM	618.10				
				2						2		EACH	YIELDING MARKER POSTS	619.17				
				46						46		M	ALUMINUM APPROACH RAILING (MODIFIED)	621.74				
				50						50		HR	UNIFORMED TRAFFIC OFFICERS	630.10				
				50						50		HR	FLAGGERS	630.15				
								1		1		LS	FIELD OFFICE-ENGINEERS	631.10				
								1		1		LS	TESTING EQUIPMENT - CONCRETE	631.16				
								1		1		LS	TESTING EQUIPMENT - BITUMINOUS	631.17				
								1		1		LU	FIELD OFFICE - TELEPHONE (NOT A BID ITEM)	631.25				
				1						1		LS	MOBILIZATION	635.10				
				1						1		LS	TRAFFIC CONTROL	641.10				
				2						2		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15				
				295						295		M	100 mm WHITE LINE	646.20				
				265						265		M	100 mm YELLOW LINE	646.21				
				4						4		M	600 mm STOP BAR	646.26				
				4						4		EACH	LETTER OR SYMBOL	646.30				
				15						15		M	CROSSWALK MARKING W/DIAGONAL LINES	646.31				
							180			180		SM	GEOTEXTILE FOR SILT FENCE	649.51				
							40			40		SM	GEOTEXTILE FOR FILTER CURTAIN	649.61				
							5			5		KG	SEED	651.15				
							5			5		KG	SEED-WINTER RYE	651.17				
							45			45		KG	FERTILIZER	651.18				
							0.25			0.25		T	AGRICULTURAL LIMESTONE	651.20				
							0.25			0.25		T	HAY MULCH	651.25				
							20			20		EACH	HAY BALES FOR EROSION CONTROL	651.26				
							50			50		CM	TOPSOIL	651.35				
							10			10		SM	EROSION MATTING	654.10				
				1.82						1.82		SM	TRAFFIC SIGNS, TYPE A	675.20				
				12						12		M	FLANGED CHANNEL SIGN POSTS	675.301				
				1						1		EACH	REMOVING SIGNS	675.50				
					20					20		M	ELECTRICAL CONDUIT (50mm PVC, SCHEDULE 40)	678.21				
					70					70		M	ELECTRICAL CONDUIT (50mm PVC, SCHEDULE 60)	678.21				
					50				(EST)	50		M	WIRED CONDUIT (50mm PVC, SCHEDULE 40)	678.23				
					8					8		EACH	JUNCTION BOX	678.26				
					4					4		EACH	LIGHT POLE (MODIFIED)	679.45				

PROJECT NAME: PROCTOR
 PROJECT NUMBER: BHF 0155(5)S
 FILE NAME: /sfr1/B4j088/sj088qnt.xls PLOT DATE: 10/18/01
 PROJECT LEADER: G.S. ROGERS DRAWN BY: J. GILMORE
 DESIGNED BY: C. MEUNIER CHECKED BY: C. MEUNIER
 QUANTITY SHEET #2 SHEET 4 OF 59



**STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT OF WAY PLANS
DETAIL SHEET**

TABLE OF PROJECT PROPERTY ACQUISITION

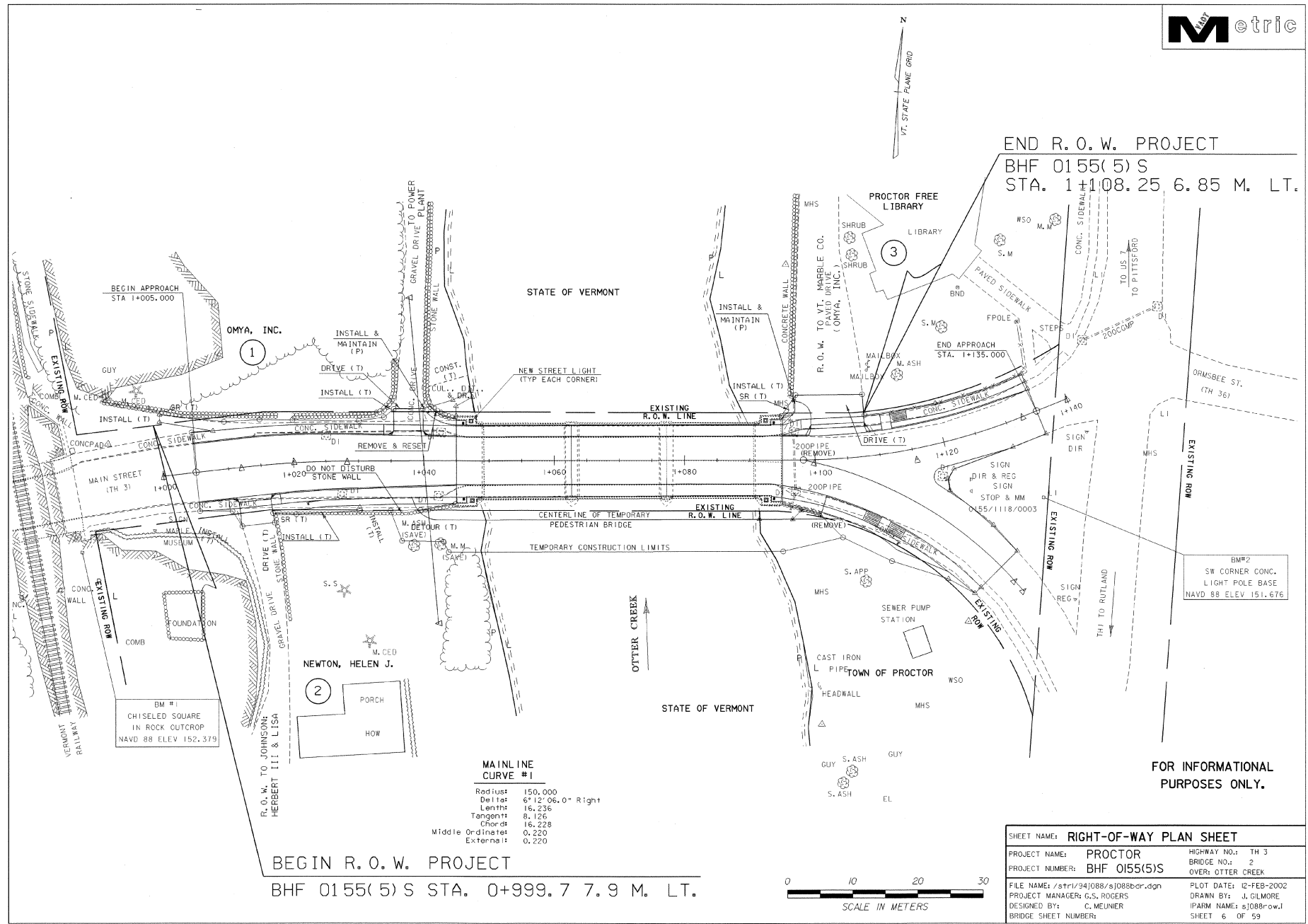
PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	OMYA, INC.	7	0+995.70 LT. 1+000.50 LT. 1+034.55 LT. 1+038.00 LT. 1+040.00 LT. 1+040.50 LT. 1+040.00 LT. 1+040.75 LT. 1+041.10 LT.	1+005.54 LT. 1+006.77 LT. 1+035.50 LT. 1+040.50 LT. 1+042.50 LT. 1+045.00 LT. 1+048.00 LT. 1+045.60 LT.			INSTALL (T) SLOPE (T) 10 S.M.± INSTALL (T) DRIVE (T) INSTALL & MAINTAIN (P) REMOVE & RESET (T) CUL., DIT., DR. (P) 5 S.M.± CONST. (T) 23 S.M.± INSTALL (T)	WD0E	01-17-01	PROCTOR	45	326	SILT FENCE 108 S.F.± SILT FENCE GUARDRAIL STONE WALL 54 S.F.± 248 S.F.± SILT FENCE			ELECTRONIC IPARM OF DETAIL SHEET TO STRUCTURES	10-11-01		
2	NEWTON, HELEN J.	7	1+004.10 RT. 1+013.00 RT. 1+015.21 RT. 1+017.00 RT. 1+032.80 RT. 1+035.00 RT.	1+011.70 RT. 1+034.84 RT. 1+035.00 RT. 1+048.50 RT. 1+049.60 RT.			INSTALL (T) DRIVE (T) INSTALL (T) SLOPE (T) 7 S.M.± INSTALL (T) DETOUR (T) 74 S.M.±	WD0E	09-29-00	PROCTOR	45	1	SILT FENCE SILT FENCE 75 S.F.± SILT FENCE DO NOT DISTURB STONE WALL 797 S.F.±						
3	PROCTOR FREE LIBRARY	7	1+094.80 LT. 1+095.40 LT. 1+097.00 LT. 1+103.00 LT.	1+095.70 LT. 1+099.30 LT.			INSTALL (T) SLOPE (T) 5 S.M.± INSTALL & MAINTAIN (P) DRIVE (T)	WD0E	09-29-00	PROCTOR	45	3	SILT FENCE 54 S.F.± GUARDRAIL						

<p>ACCT.Repro \\vaor_cadd\filling\cabinets\94\088\Right0fWay\vrj88cd.dgn DATE PLOTTED 10-FEB-2002</p>	<p>DR. (P)- DRAINAGE RIGHT DIT. (P)- DITCHING RIGHT CH. (P)- CHANNEL RT. DRIVE (T)- DRIVE RIGHT CUL. (P)- CULVERT RIGHT (W) - WATER SOURCES</p>	<p>PRESENT R.O.W. TAKING WITHOUT ACCESS TAKING WITHOUT ACCESS ALONG PROPERTY LINE TAKING WITH ACCESS PERMANENT EASEMENT TEMPORARY EASEMENT</p>	<p>LEGEND</p> <p>--- C₂ (P) --- CLEAR ZONE --- CONST. (T) --- CONSTRUCTION EASEMENT --- SR --- SLOPE RIGHTS --- P --- PROPERTY LINE --- L --- TOP OF CUT --- O --- TOE OF SLOPE</p>	<p>R. O. W. PLANS PROCTOR BHF 0155 (5) R. O. W. SHEET 6 OF 7 SHEETS SHEET 5 OF 59</p>
---	---	--	--	--

APPROVED: LAWRENCE W. BLISS DATE: 10-24-98
AGENT D. PLANS & TITLES



END R. O. W. PROJECT
 BHF 0155(5) S
 STA. 1+108.25 6.85 M. LT.



STATE OF VERMONT

STATE OF VERMONT

MAIN LINE CURVE #1

Radius:	150.000
Delta:	6°12'06.0" Right
Length:	16.236
Tangent:	8.126
Chord:	16.228
Middle Ordinate:	0.220
External:	0.220

BM #1
 CHISELED SQUARE
 IN ROCK OUTCROP
 NAVD 88 ELEV 152.379

BM#2
 SW CORNER CONC.
 LIGHT POLE BASE
 NAVD 88 ELEV 151.676

BEGIN R. O. W. PROJECT
 BHF 0155(5) S STA. 0+999.7 7.9 M. LT.

FOR INFORMATIONAL
 PURPOSES ONLY.



SHEET NAME: RIGHT-OF-WAY PLAN SHEET	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /str1/24j088/sj088bar.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088row.j
BRIDGE SHEET NUMBER:	SHEET 6 OF 59

SURVEY TRAV. 1	SURVEY TRAV. 2	SURVEY TRAV. 3	SURVEY TRAV. 4
N = 129240.462	N = 129132.7990	N = 129115.4760	N = 129200.3880
E = 456772.486	E = 456892.073	E = 457025.6930	E = 456900.926
ELEV. = 145.520	ELEV. = 151.0200	ELEV. = 150.5610	ELEV. = 153.2600
SEE GPS POINT INFORMATION			NO TIES
GPS - PROCTOR	GPS - 94J088-1		

MAINLINE POB	MAINLINE CURVE #1 - PC	MAINLINE CURVE #1 - PT	MAINLINE CURVE #2 - PC	MAINLINE CURVE #2 - PT	MAINLINE POE
STA. 1+000.000	STA. 1+012.004	STA. 1+028.240	STA. 1+098.221	STA. 1+132.685	STA. 1+140.000
N = 129128.517	N = 129130.736	N = 129132.869	N = 129138.299	N = 129147.408	N = 129150.659
E = 456900.944	E = 456912.741	E = 456928.828	E = 456998.599	E = 457031.620	E = 457038.172

SIDELINE POB	SIDELINE CURVE - PC	SIDELINE CURVE - PT	SIDELINE POE
STA. 3+000.000	STA. 3+001.757	STA. 3+037.945	STA. 3+040.000
N = 129138.299	N = 129136.023	N = 129122.225	N = 129120.808
E = 456998.599	E = 457000.334	E = 457032.284	E = 457033.771

GPS CONTROL POINT INFORMATION

PROCTOR - BENCH MARK DISK IN ROCK LEDGE

NORTHING - 129240.462
EASTING - 456772.486
ELEVATION - 145.520

LOCATION - PROCTOR, 5 MI. (8 KM) NORTHWEST OF RUTLAND.

FROM THE JUNCTION OF ROUTES 44 AND 3 IN CENTER RUTLAND, PROCEED NORTH ALONG ROUTE 3 FOR 4.35 MI. (7.00 KM) TO THE JUNCTION OF TOWN HIGHWAY 3 (MAIN STREET) IN PROCTOR, THENCE PROCEED WEST ALONG MAIN ST. FOR 0.25 MI. (0.40 KM) TO THE STATION AND THE PROCTOR MUNICIPAL BUILDING ON THE LEFT (WEST). THE STATION IS 34.2 FT. (10.4 M) WEST OF THE CENTER LINE OF MAIN ST., 30.5 FT. (9.3 M) SOUTHEAST OF A UTILITY POLE (NO. 135C/59), 20 FT. (6.1 M) NORTH OF THE NORTHEAST CORNER OF THE MUNICIPAL BUILDING, ABOUT 5 FT. (1.5 M) HIGHER THAN THE STREET, AND ABOUT 0.2 FT. (6.1 CM) ABOVE THE GROUND.

94J088-1 - METAL ROD DRIVEN INTO THE GROUND

NORTHING - 129132.799
EASTING - 456892.073
ELEVATION - 151.020

LOCATION - PROCTOR, 5 MI. (8 KM) NORTHWEST OF RUTLAND.

FROM THE JUNCTION OF ROUTES 44 AND 3 IN CENTER RUTLAND, PROCEED NORTH ALONG ROUTE 3 FOR 4.35 MI. (7.00 KM) TO THE JUNCTION OF TOWN HIGHWAY 3 (MAIN STREET) IN PROCTOR, THENCE PROCEED WEST ALONG MAIN ST. FOR 0.1 MI. (0.2 KM) TO THE STATION ON THE RIGHT. THE STATION IS 35.0 FT. (10.7 M) SOUTHEAST OF A UTILITY TOWER, 22 FT. (6.7 M) NORTH OF THE CENTERLINE OF MAIN ST., 18 FT. (5.5 M) EAST OF A METAL LIGHT POST, 1 FT. (0.3 M) NORTH OF A CONCRETE SIDEWALK.

NOTE:

THE DISTANCES ARE IN METERS.

SHEET NAME: TIE SHEET		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	BRIDGE NO.: 2
PROJECT NUMBER: BHF 0155(S)	OVER: OTTER CREEK	
FILE NAME: /str/1/94j088/sj0881e.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj0881e.j	
BRIDGE SHEET NUMBER:	SHEET 7 OF 59	

PORTLAND CEMENT CONC. SIDEWALK, 125 mm

STA 1+005 LT TO STA 1+045 LT
 STA 1+005 RT TO STA 1+045 RT
 STA 1+036 LT TO STA 1+135 LT
 STA 3+005 RT TO STA 3+035 RT

MARBLE BRIDGE RAILING

1+045 RT. TO 1+095 RT.
 1+045 LT. TO 1+095 LT.

CONSTRUCT DRIVE

1+013 RT. - GRAVEL
 1+038 LT. - PAVED
 1+103 LT. - PAVED

ALUMINUM APPROACH RAILING (MOD.)

STA 1+020 RT TO STA 1+045 RT
 STA 1+040 LT TO STA 1+045 LT
 STA 3+005 RT TO STA 3+020 RT
 STA 1+095 LT TO STA 1+099 LT

REVISED

BRIDGE RAILING - 3 RAIL ALUMINUM (WITHOUT OFFSET BLOCK) (MOD.)

STA 1+045 LT TO STA 1+047 LT
 STA 1+045 RT TO STA 1+047 RT
 STA 1+093 RT TO STA 3+005 RT
 STA 1+093 LT TO STA 1+095 LT

CAST-IN-PLACE CONCRETE CURB, TYPE B

STA 1+005 RT TO STA 1+010.8 RT
 STA 1+016.3 RT TO STA 1+045 RT
 STA 1+005 LT TO STA 1+035.1 LT
 STA 1+040.2 LT TO STA 1+045 LT
 STA 1+095 LT TO STA 1+099.2 LT
 STA 1+108.4 LT TO STA 1+111 LT
 STA 1+112 LT TO STA 1+135 LT
 STA 3+004.8 RT TO STA 3+014.8 RT
 STA 3+016.4 RT TO STA 3+022 RT

REMOVAL OF EXISTING MARBLE RAILING

STA 1+045 TO STA 1+095 (LT TO RT)

CONSTRUCT SIDEWALK RAMP (TYPE 6)

STA 1+112 LT
 STA 3+016 RT

REMOVE AND RESET METAL HANDRAILING

STA 1+113 LT. TO STA 1+135 LT.

REMOVAL OF EXISTING METAL RAILING

STA. 1+017 RT. TO STA. 1+045 RT.
 STA. 1+040 LT. TO STA. 1+045 LT.
 STA. 1+095 RT. TO STA. 3+015 RT.
 STA. 1+095 LT. TO STA. 1+097 LT.

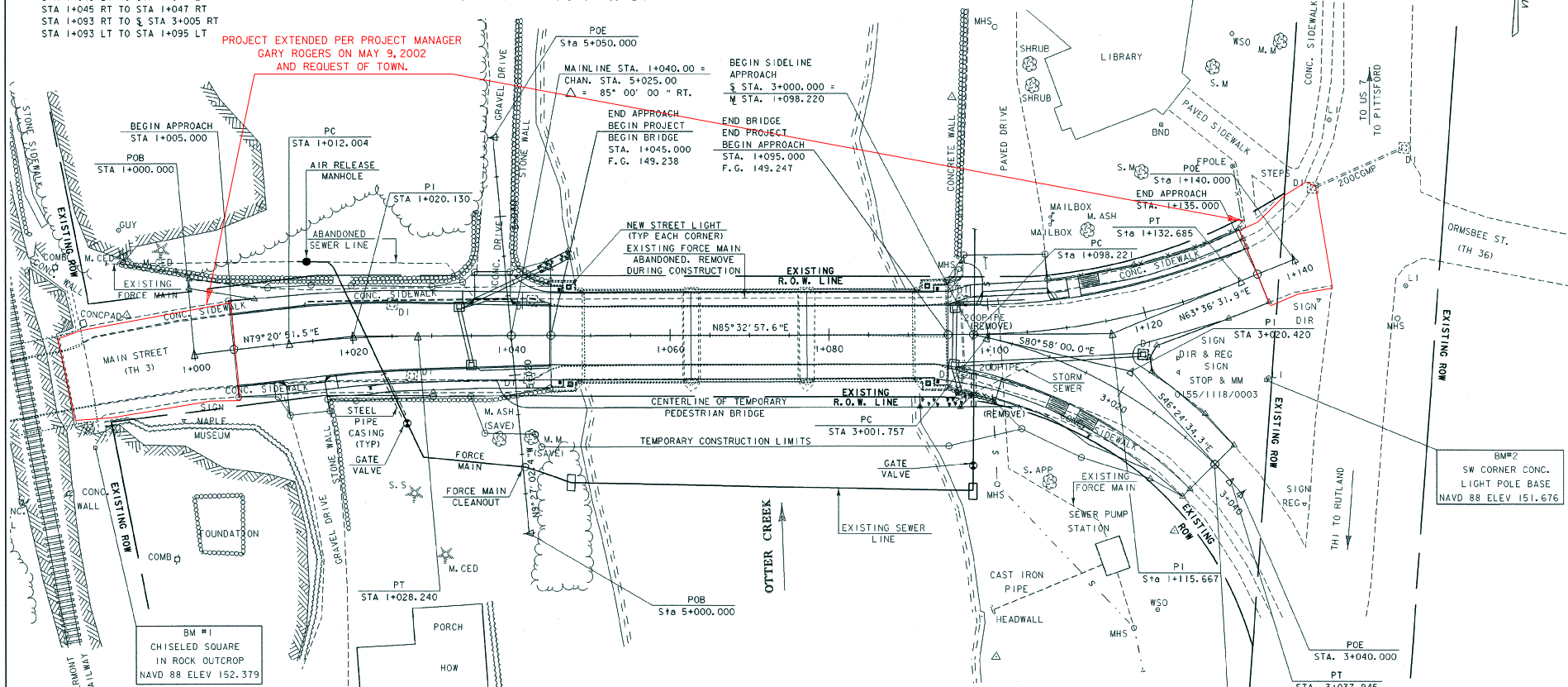
NOTES

- SEE SHEET 34 FOR PAVEMENT MARKING AND SIGN SHEET.
- SEE SHEETS 17-18 FOR DRAINAGE PLAN SHEET AND DRAINAGE DETAIL SHEET.
- SEE THE GENERAL NOTES (SHEET 21) FOR ADDITIONAL INFORMATION REGARDING THE ACTUAL PAY ITEMS THAT ARE BEING SPECIFIED FOR THE REMOVAL AND RESETTING OF THE MARBLE RAILING AND THE HANDRAILING.

MAINLINE CURVE #2

Radius: 90,000
 Delta: 21°55'25.7" Left
 Length: 34,464
 Tangent: 17,446
 Chord: 34,254
 Middle Ordinate: 1,645
 External: 1,675

PROJECT EXTENDED PER PROJECT MANAGER GARY ROGERS ON MAY 9, 2002 AND REQUEST OF TOWN.



EXISTING BRIDGE DATA
 3 SPAN CONCRETE ARCH WITH MARBLE FACING
 ROADWAY WIDTH - 7.315 m
 SIDEWALK WIDTH - 1.737 m
 OUT TO OUT WIDTH - 11.582 m
 EACH CLEAR SPAN LENGTH - 12.300 m
 OVERALL LENGTH - 49.682 m
 VERTICAL CLEARANCE TO THE RIVER - 6.096 m
 MARBLE BRIDGE RAILING

MAINLINE CURVE #1
 Radius: 150,000
 Delta: 6°12'06.0" Right
 Length: 16,236
 Tangent: 8,126
 Chord: 16,228
 Middle Ordinate: 0.220
 External: 0.220

SIDELINE CURVE DATA
 Radius: 60,000
 Delta: 34°33'25.7" Right
 Length: 36,188
 Tangent: 18,663
 Chord: 35,642
 Middle Ordinate: 2,708
 External: 2,836

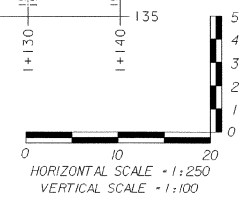
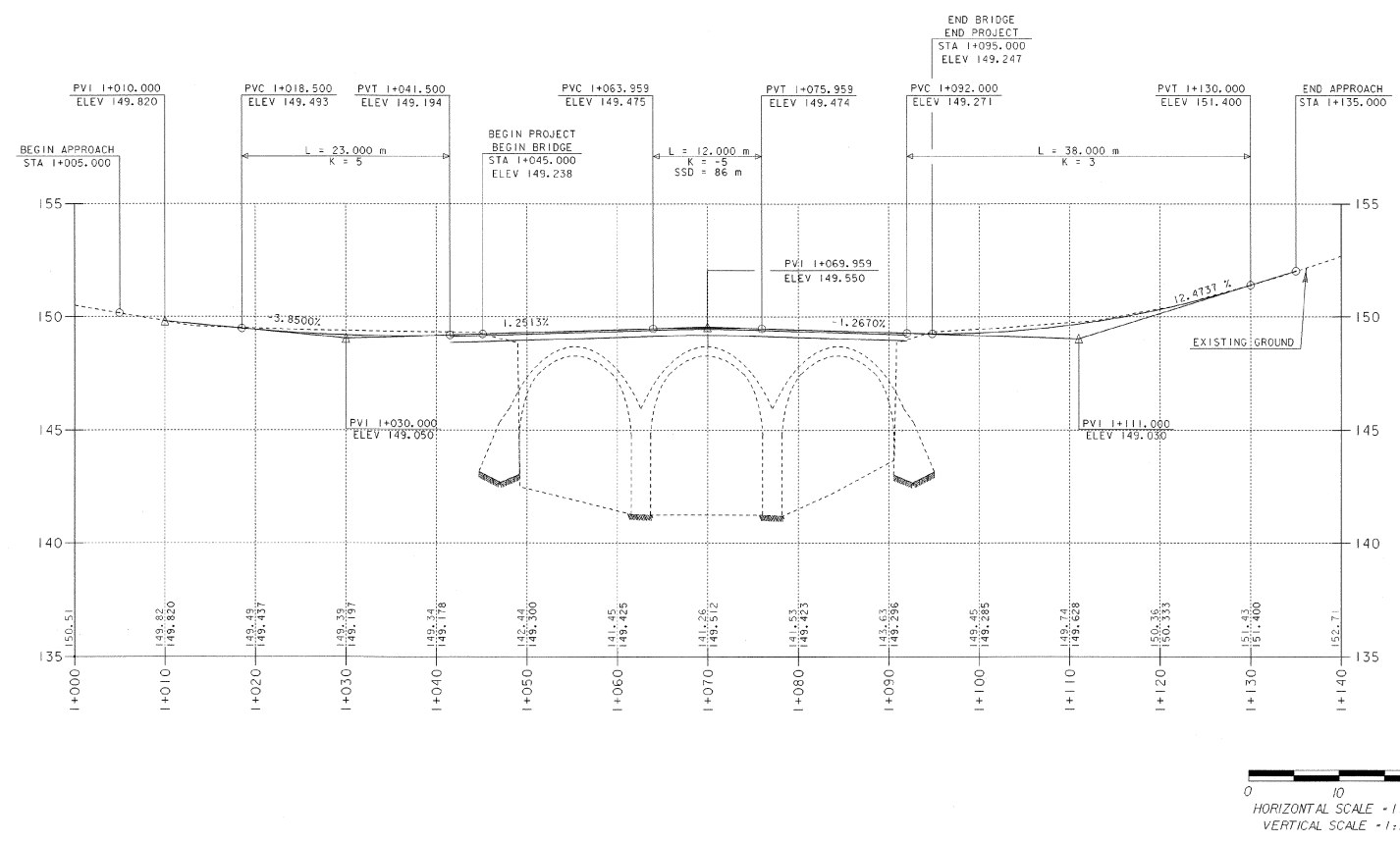


BMP#2
 SW CORNER CONC.
 LIGHT POLE BASE
 NAVD 88 ELEV 151.676

* SEE THE TEMPORARY FOOTBRIDGE NOTE UNDER MAINTENANCE OF TRAFFIC ON THE P.1. SHEET

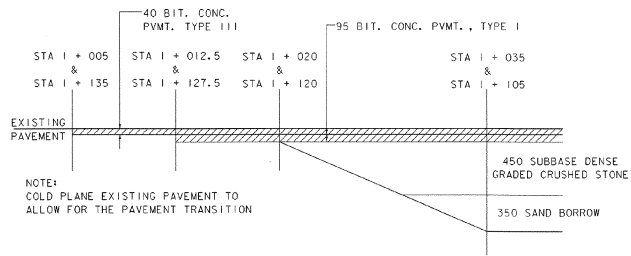
SHEET NAME: LAYOUT SHEET		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2	OVER: OTTER CREEK
FILE NAME: /s/1/94/1088/s/1088bdr.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: s/1088d.l	
BRIDGE SHEET NUMBER:	SHEET 8 OF 59	

Profile

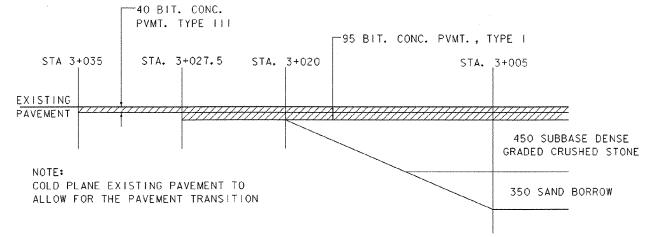


NOTE:
GRADES SHOWN TO THE NEAREST HUNDRETH ARE THE OLD GROUND ALONG THE CENTERLINE. GRADES SHOWN TO THE NEAREST THOUSANDTH ARE THE PROPOSED FINISHED GRADE ALONG THE CENTERLINE.

SHEET NAME: MAINLINE PROFILE	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /s/tr/94/088/sj088xsl.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088p-r11
BRIDGE SHEET NUMBER:	SHEET 9 OF 99

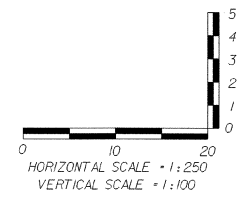
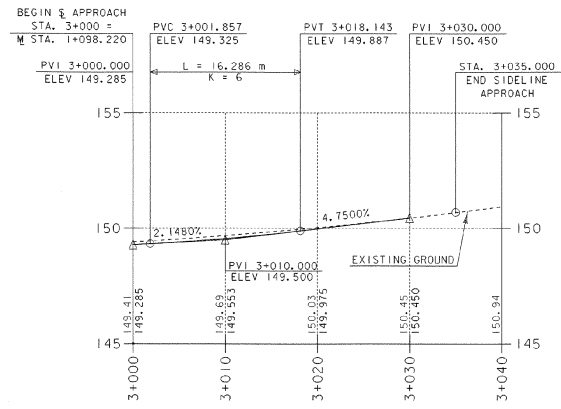


SUBBASE TRANSITION BETWEEN
STA 1+005 - STA 1+035 AND
STA 1+105 - STA 1+135
NTS



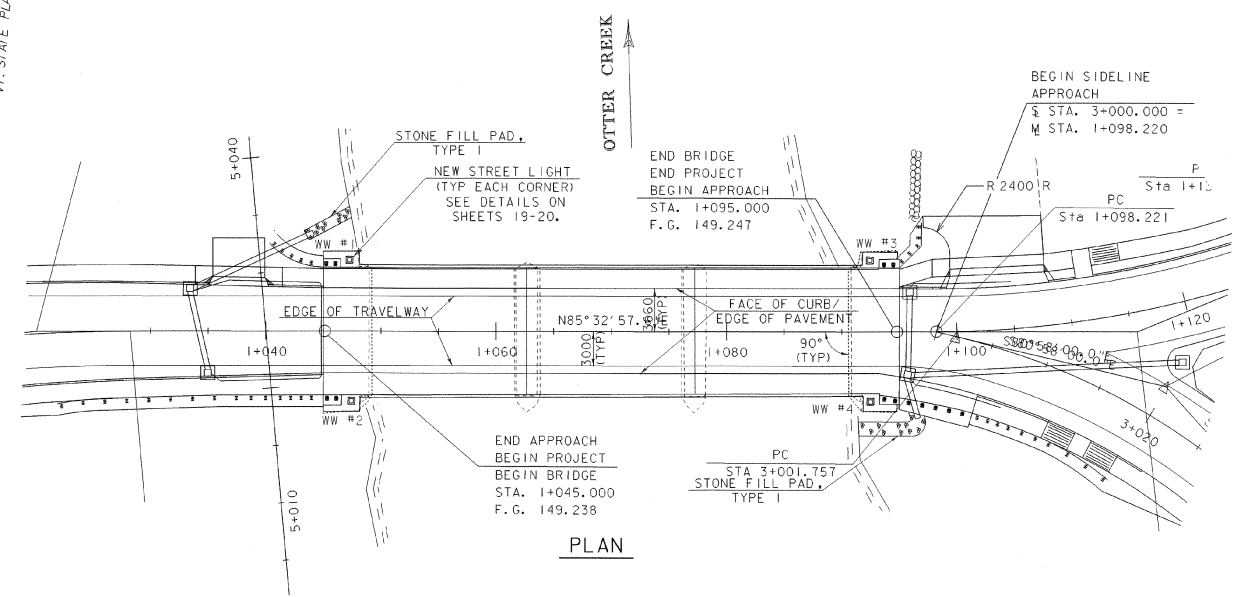
SUBBASE TRANSITION BETWEEN
STA 3+005 - STA 3+035
NTS

Sideline Profile



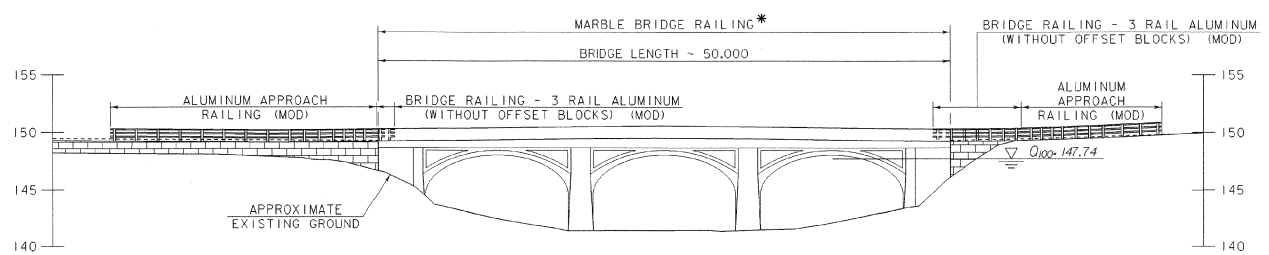
NOTE:
GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE OLD GROUND ALONG THE CENTERLINE. GRADES SHOWN TO THE NEAREST THOUSANDTH ARE THE PROPOSED FINISHED GRADE ALONG THE CENTERLINE.

SHEET NAME: SIDELINE PROFILE	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /s/1/94j088/sj088xsl.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088pr2j
BRIDGE SHEET NUMBER:	SHEET 10 OF 99



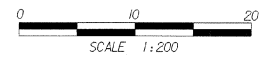
PLAN

NOTE:
FOR DETAILS OF ALUMINUM RAILING
SEE SHEETS 31-32.



ELEVATION VIEW OF UPSTREAM FASCIA

* SEE GENERAL NOTES ON SHEET 21 FOR
DETAILS ON REPLACEMENT OF THE
MARBLE BRIDGE RAIL



SHEET NAME: PLAN AND ELEVATION	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /s1/1/94j088/sj088pe.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. CILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088pe.1
BRIDGE SHEET NUMBER:	SHEET # OF 59

**SEEDING FORMULA
URBAN AREAS**

% WT.	kg/ha	NAME	PUR %	GERM %
42.5	38.0	CREeping RED FESCUE	98	85
10.0	9.0	PERENNIAL RYE GRASS	95	90
42.5	38.0	KENTUCKY BLUE GRASS	85	85
5.0	5.0	ANNUAL RYE GRASS	95	85
100.0	90.0			

GENERAL NOTES

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

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

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

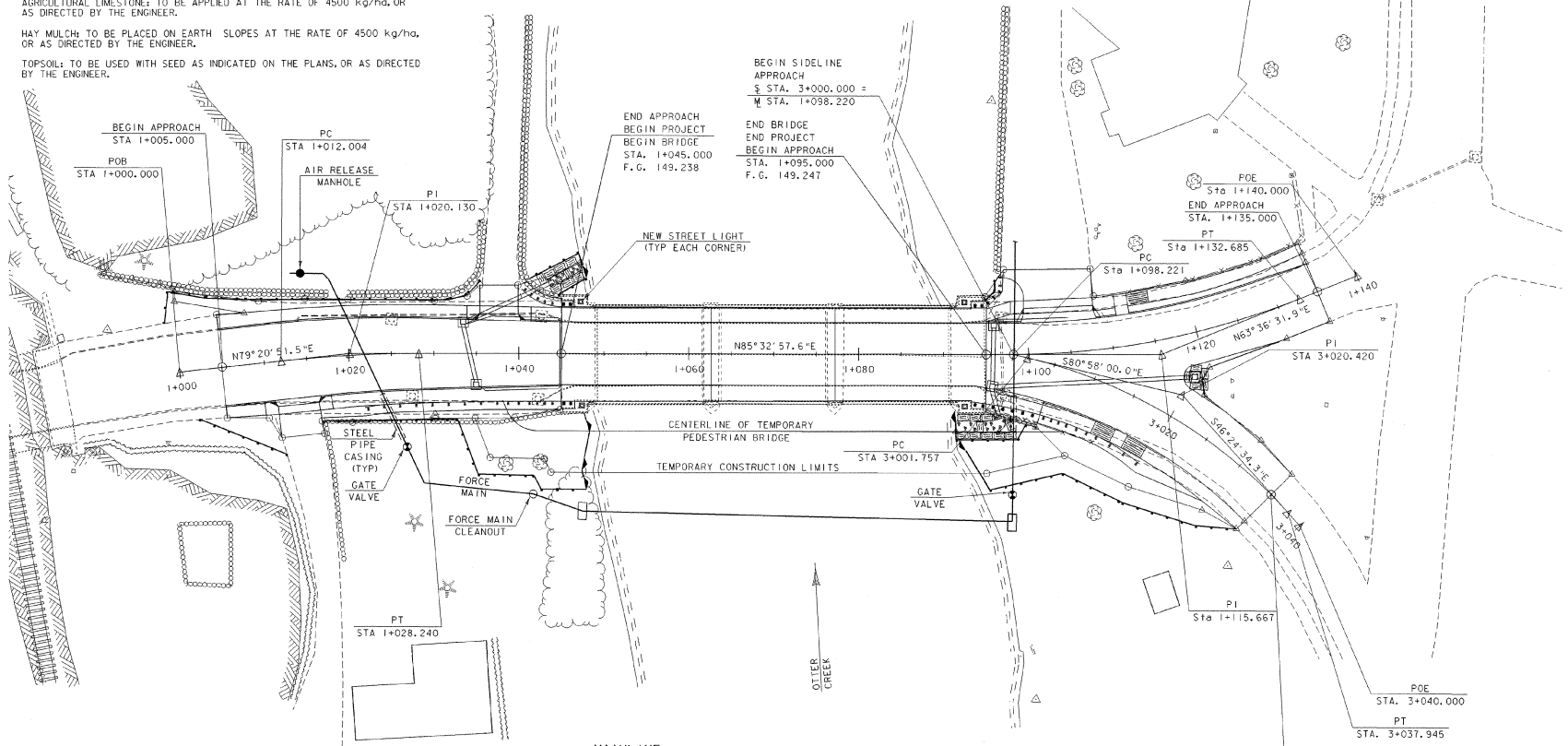
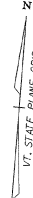
AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 4500 kg/ha, OR AS DIRECTED BY THE ENGINEER.

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

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

NOTES:

1. USE THIS SHEET IN CONJUNCTION WITH STANDARDS T-1M AND T-2M.
2. SUBJECT TO THE APPROVAL OF THE RESIDENT ENGINEER, AN ALTERNATE EROSION CONTROL PLAN MAY BE SUBMITTED BY THE CONTRACTOR.
3. THE CONTRACTOR WILL USE OTHER TEMPORARY OR PERMANENT EROSION CONTROL MEASURES AS REQUIRED BY THE CONSTRUCTION SEQUENCE AND THE RESIDENT ENGINEER. (SEE SECTION 105.23 OF THE VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 1995).



LEGEND

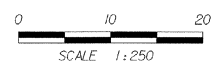
FABRIC CURTAIN -	
SILT FENCE -	
HAY BALES -	
STONE FILL/TYPE 1 -	

MAIN LINE CURVE #1

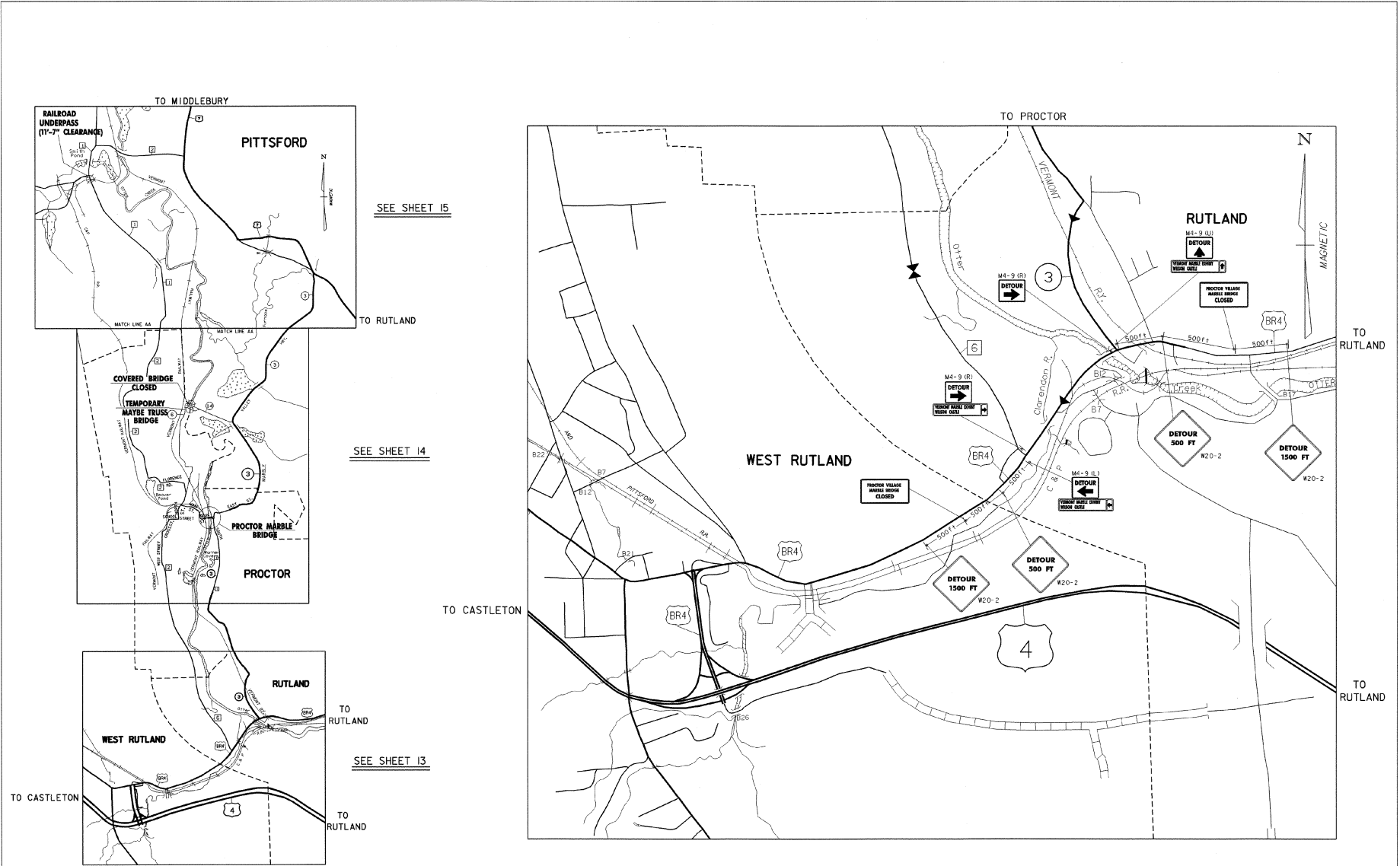
Radius:	150.000
Offset:	6' 12" 06.0" Right
Length:	16.235
Tangent:	8.126
Chord:	16.228
Middle Ordinate:	0.220
External:	0.220

SIDELINE CURVE DATA

Radius:	60.000
Offset:	34' 33" 25.7" Right
Length:	36.168
Tangent:	18.663
Chord:	35.642
Middle Ordinate:	2.706
External:	2.636

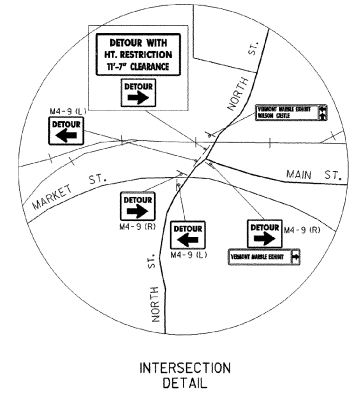
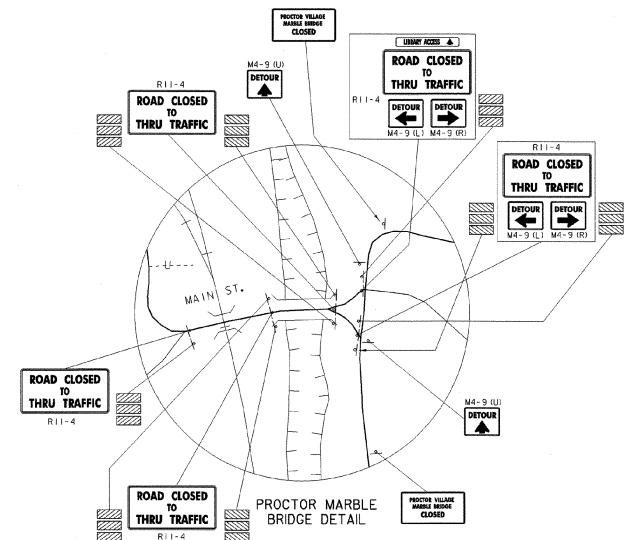
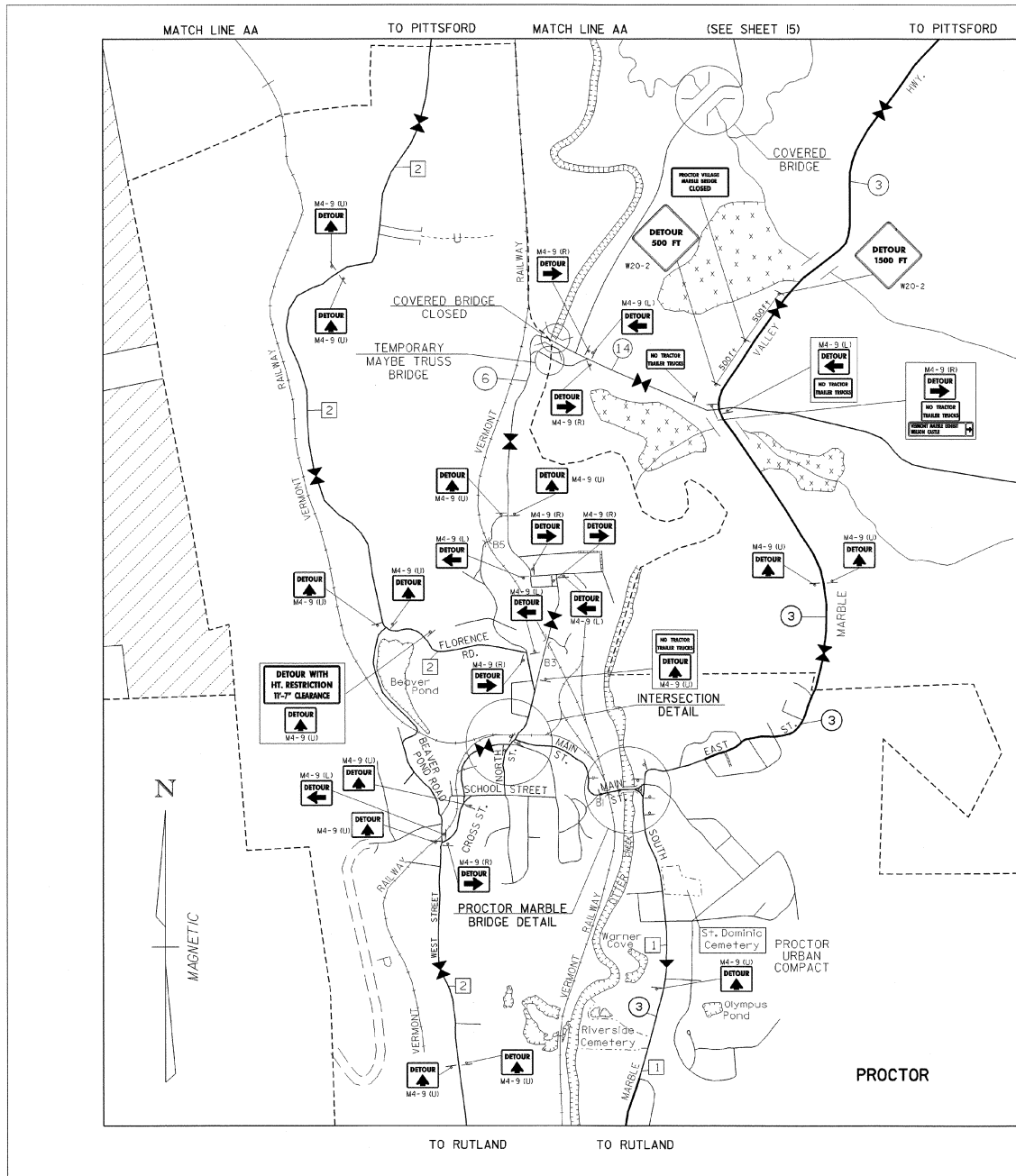


SHEET NAME: EROSION CONTROL PLAN		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(S)	BRIDGE NO.: 2	
	OVER: OTTER CREEK	
FILE NAME: /s1/r1/94j088/sj088ero.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GLIMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088ero.i	
BRIDGE SHEET NUMBER:	SHEET 12 OF 59	

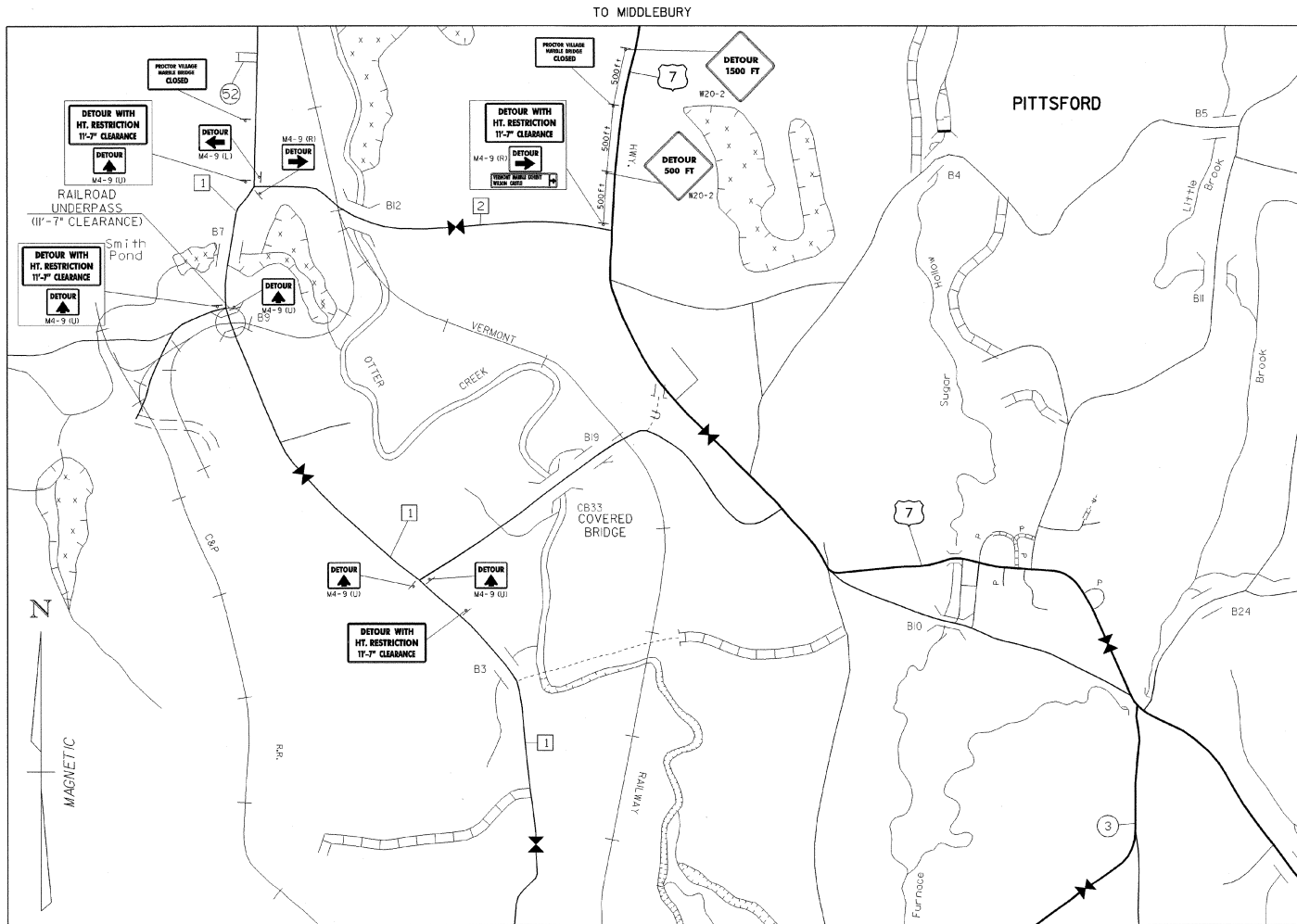


*PLEASE NOTE: THE DETOUR HAS ENGLISH UNITS EXCEPT FOR SIGN DIMENSIONS.

SHEET NAME:	TRAFFIC DETOUR SHEET 1	
PROJECT NAME:	PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER:	BHF 0155(5)S	BRIDGE NO.: 2
FILE NAME:	z:\11\941088\j088map.dgn	COVER: DITTED CREEK
DESIGNED BY:	C. MEINER	IPARM NAME: s1088mcp1
BRIDGE SHEET NUMBER:		SHEET 13 OF 59



SHEET NAME: TRAFFIC DETOUR SHEET 2		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	BRIDGE NO.: 2
PROJECT NUMBER: BHF 0155(5)S	COVER: OTTIER CREEK	
FILE NAME: 2/21/14\141088\51088mp.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: T. MANCINI	
DESIGNED BY: C. MEUNER	IPARM NAME: 51088mp.2.1	
BRIDGE SHEET NUMBER:	SHEET 14 OF 59	



MATCH LINE AA

TO PROCTOR

MATCH LINE AA

(SEE SHEET 14)

TO PROCTOR

TO RUTLAND

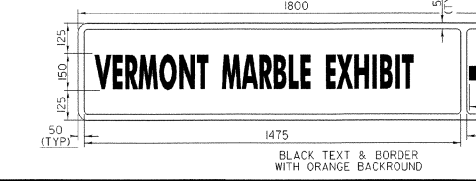
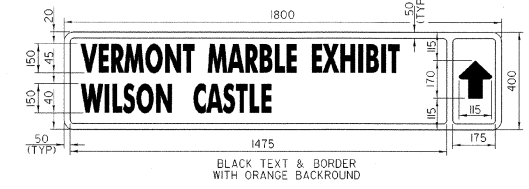
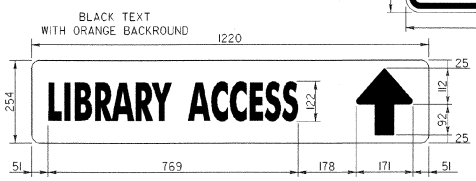
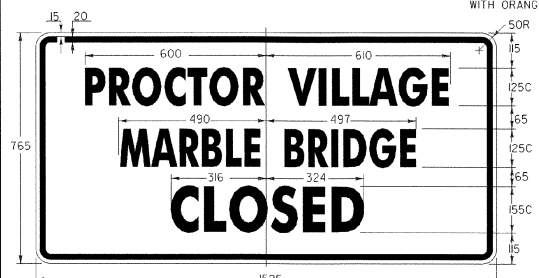
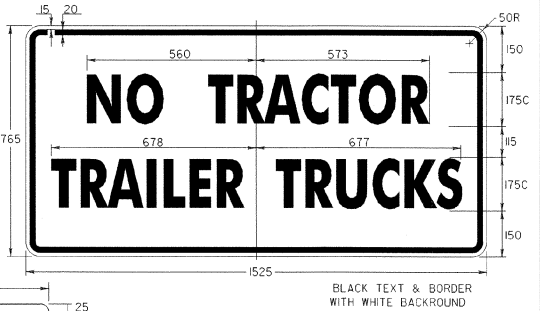
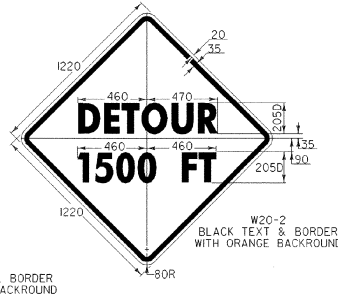
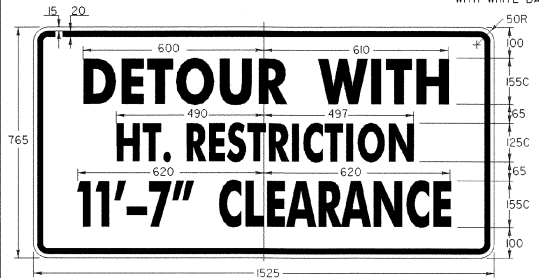
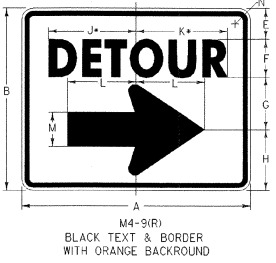
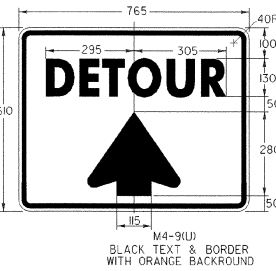
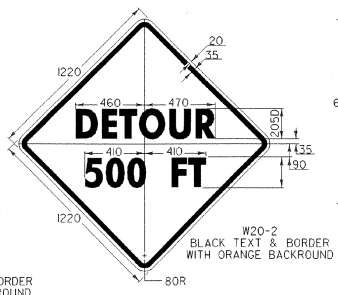
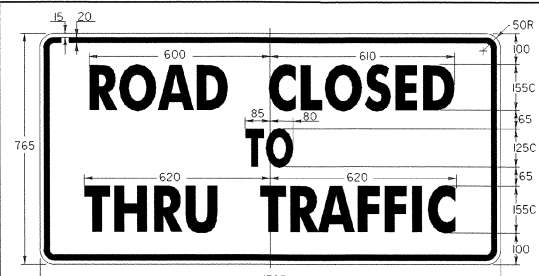
SHEET NAME: TRAFFIC DETOUR SHEET 3	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: j:\tr\14\1088\51088map.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: T. MANCINI
DESIGNED BY: C. MEUNER	IPARM NAME: s1088map3.1
BRIDGE SHEET NUMBER:	SHEET 15 OF 33

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DETOUR SIGN SUMMARY SHEET



QUANTITY OF SIGNS	SIGN LEGEND	SIGN DIMENSIONS		FLANGED CHANNEL
		WIDTH (mm)	HEIGHT (mm)	
7	PROCTOR VILLAGE MARBLE BRIDGE CLOSED	1525	765	X
6	DETOUR WITH HT. RESTRICTION 11'-7" CLEARANCE	1525	765	X
4	NO TRACTOR TRAILER TRUCKS	1525	765	X
4	DETOUR 500 FT	W20-2		X
5	ROAD CLOSED TO THRU TRAFFIC	R11-4	1525 765	X
4	DETOUR 1500 FT	W20-2		X
23	DETOUR	M4-9 (U)	765 610	X
16	DETOUR	M4-9 (R)	765 610	X
12	DETOUR	M4-9 (L)	765 610	X
4	E-107a M			
4	E-107a M			
1	E-123 M			
3	LIBRARY ACCESS	1800	400	
1	VERMONT MARBLE EXHIBIT WILSON CASTLE	1800	400	
1	VERMONT MARBLE EXHIBIT WILSON CASTLE	1800	400	X
1	VERMONT MARBLE EXHIBIT WILSON CASTLE	1800	400	



SIGN	DIMENSIONS (INCHES)													* REDUCE SPACING 40%
	A	B	C	D	E	F	G	H	J	K	L	M	N	
STD.	765	610	10	15	100	1300	175	205	295	305	230	115	40	
SPECIAL	1220	915	15	25	155	2050	255	305	495	515	345	180	60	
SPECIAL	1525	1220	20	35	205	2550	355	410	585	610	460	230	80	

SHEET NAME: DETOUR SIGN SUMMARY SHEET
 PROJECT NAME: PROCTOR
 PROJECT NUMBER: BHF 0155(5)S
 FILE NAME: /str/94j088/sj088map.gsn
 DESIGNED BY: G.MELNER
 BRIDGE SHEET NUMBER:
 HIGHWAY NO.: 141 3
 BRIDGE NO.: 2
 OVER: OTTER CREEK
 PLOT DATE: 12-FEB-2002
 DRAWN BY: T. MANCINI
 IPAIN NAME: sj088map.dwg
 SHEET 16 OF 58

SEE STD. E-121M FOR SIGN PLACEMENT

BLACK TEXT & BORDER WITH ORANGE BACKGROUND

BLACK TEXT & BORDER WITH ORANGE BACKGROUND

BLACK TEXT & BORDER WITH ORANGE BACKGROUND

BLACK TEXT & BORDER WITH ORANGE BACKGROUND

R11-4 BLACK TEXT & BORDER WITH WHITE BACKGROUND

W20-2 BLACK TEXT & BORDER WITH ORANGE BACKGROUND

M4-9(U) BLACK TEXT & BORDER WITH ORANGE BACKGROUND

M4-9(R) BLACK TEXT & BORDER WITH ORANGE BACKGROUND

W20-2 BLACK TEXT & BORDER WITH ORANGE BACKGROUND

BLACK TEXT WITH ORANGE BACKGROUND

BLACK TEXT & BORDER WITH WHITE BACKGROUND

BLACK TEXT & BORDER WITH ORANGE BACKGROUND

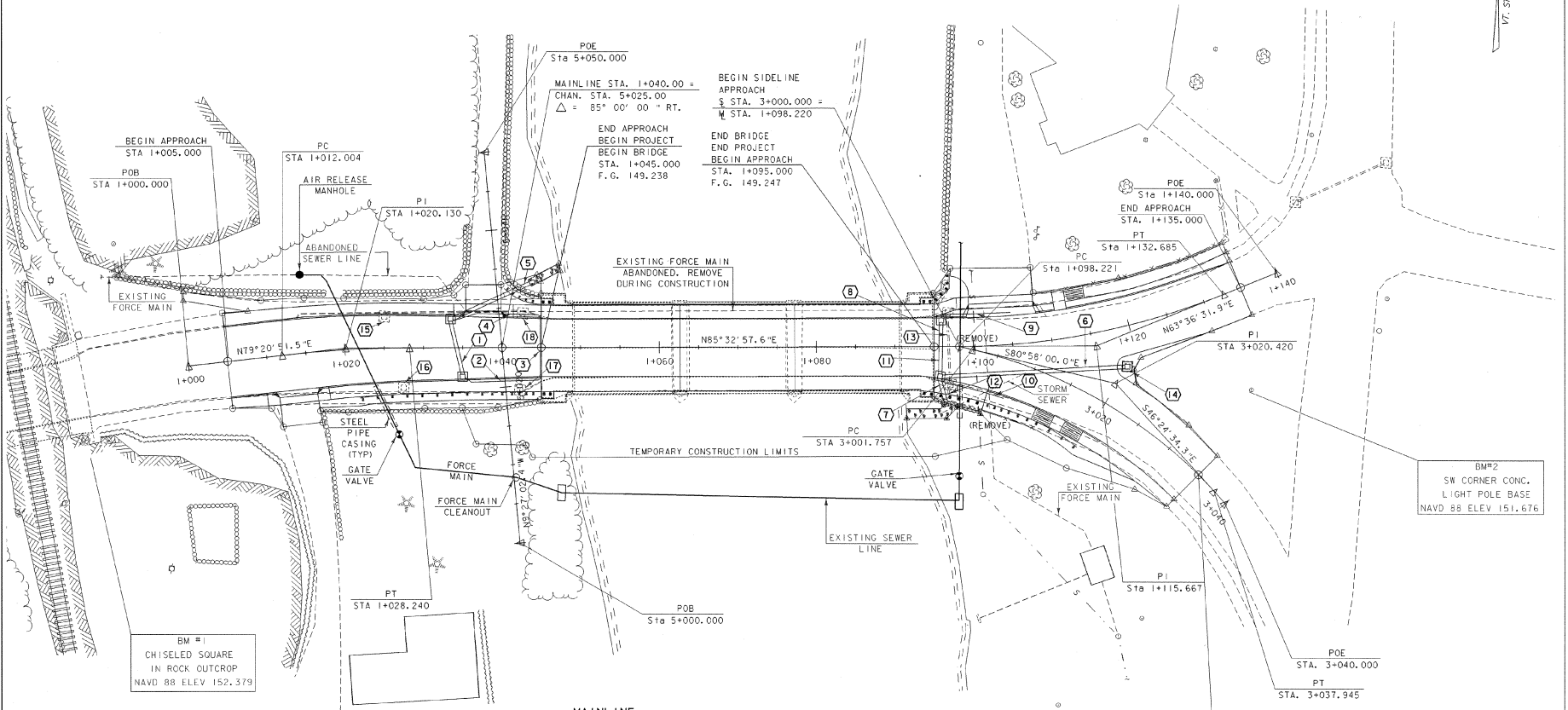
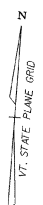


NO.	STATIONS	DESCRIPTION	NO.	STATIONS	DESCRIPTION
1	I+033.5 LT-I+035 RT	NEW 450 x 7000 PIPE OPTION w/RCDI AND TYPE D GRATE AT INLET	9	I+096 LT - I+105 LT	NEW 150 UNDERDRAIN
2	I+035 RT - I+045 RT	NEW 150 UNDERDRAIN	10	I+096 RT - I+104 RT	NEW 150 UNDERDRAIN
3	I+045 RT - I+045 LT	NEW 150 UNDERDRAIN	11	I+096 LT - I+096 RT	NEW 150 UNDERDRAIN
4	I+033.5 LT-I+045 LT	NEW 150 UNDERDRAIN	12	I+096 RT - I+097 RT	REMOVE EXISTING 200 PIPE AND DI
5	I+033.5 LT-I+044 LT	NEW 450 x 11 500 PIPE OPTION w/RCDI AND TYPE D GRATE AT INLET AND 1000 x 4500 TYPE I STONE FILL PAD AT OUTLET	13	I+097 LT - I+097 RT	REMOVE EXISTING 200 PIPE AND DI
6	I+096 RT - I+119 RT	NEW 450 x 24 000 PIPE OPTION w/RCDI AND TYPE D GRATE AT INLET	14	I+119 RT	REMOVE EXISTING DI
7	I+096 RT - I+097 RT	NEW 450 x 4000 PIPE OPTION w/RCDI AND TYPE D GRATE AT INLET AND 1200 x 6000 TYPE I STONE FILL PAD AT OUTLET	15	I+025 LT	REMOVE EXISTING DI
8	I+096 LT - I+096 RT	NEW 450 x 7000 PIPE OPTION w/RCDI AND TYPE D GRATE AT INLET	16	I+027 RT	REMOVE EXISTING DI
			17	I+042 RT	REMOVE EXISTING DI
			18	I+043 LT	REMOVE EXISTING DI

SEE DRAINAGE DETAIL SHEET 18 FOR MORE INFORMATION.

PIPE OPTIONS
PCCSP 1.7mm
CAAP 1.6mm
CPEP

MAIN LINE CURVE #2
Radius: 90,000
Delta: 21°56'25.7" Left
Length: 54,464
Tangent: 17,446
Chord: 34,254
Middle Ordinate: 1,645
External: 1,675



BM #1
CHISELED SQUARE
IN ROCK OUTCROP
NAVD 88 ELEV 152.379

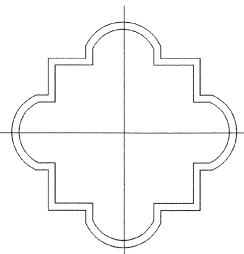
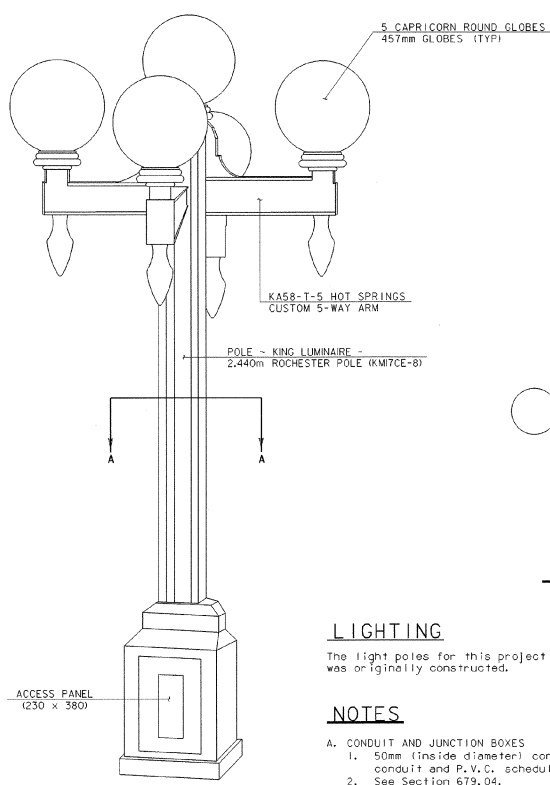
BM #2
SW CORNER CONC.
LIGHT POLE BASE
NAVD 88 ELEV 151.676

MAIN LINE CURVE #1
Radius: 150,000
Delta: 6°12'06.0" Right
Length: 16,236
Tangent: 8,126
Chord: 16,228
Middle Ordinate: 0.220
External: 0.220

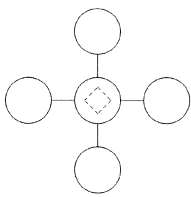
SIDELINE CURVE DATA
Radius: 60,000
Delta: 34°33'25.7" Right
Length: 36,188
Tangent: 18,663
Chord: 35,642
Middle Ordinate: 2,708
External: 2,836



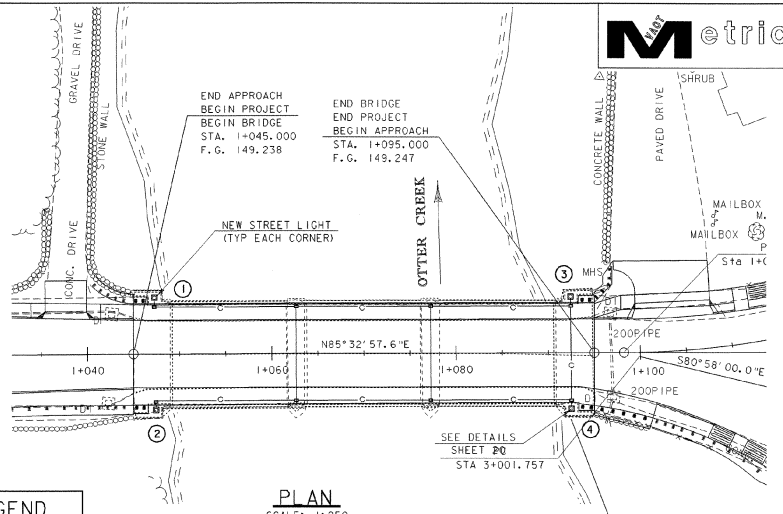
SHEET NAME: DRAINAGE PLAN SHEET		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(S)	BRIDGE NO.: 2	OVER: OTTER CREEK
FILE NAME: /s/1/94J088/sj088drg.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088drg	
BRIDGE SHEET NUMBER:	SHEET 17 OF 59	



LIGHTPOLE PLAN (SECTION A-A)
NTS



SCHEMATIC DIAGRAM
NTS



PLAN
SCALE: 1:250

LIGHTING

The light poles for this project were selected to match as close as possible to the original lighting that existed when the bridge was originally constructed.

NOTES

- A. CONDUIT AND JUNCTION BOXES
 1. 50mm (inside diameter) conduit shall be used throughout the project. All conduit shall be P.V.C. schedule 40 electrical conduit and P.V.C. schedule 80 conduit (above ground and in concrete) as detailed in these plans.
 2. See Section 679.04.
- B. GROUNDING
 1. Aluminum wire shall not be used for ground wire.
 2. See Section 679.08.

C. POLES AND ANCHOR BASES

- The 4 historic sidewalk light poles shall be a "King Luminaire" - "Rochester Design" (with classic cruciform aluminum extruded non-tapered shaft which has a height of 2.44m) along with the "Hot Springs Custom 5 Way Arm with Capricorn Round Globes." The pole shall have one single weatherproof receptacle mounted 300mm below the top of the pole. The anchor base shall have four anchor bolt holes and a two piece cast aluminum base cover that is 560mm square. Tenon size to be appropriate for luminaire.
- Each pole shall be mounted to the concrete base with four anchor bolts, nuts and washers as provided with the light pole. See "Deck Reinforcing Details" sheet 22 of 59 for anchorage to bridge. Wiring access shall be an 50mm x 130mm tamper resistant access door in the pole base.
- Finish shall be a black, two applications and touch up after installation are required.

D. WIRE

- All wiring between the power source and the first pole and between poles shall be copper, 5.3mm. sq. (#10). All wire shall have Type XHHW insulation or equivalent.
- Use 5.86mm stranded copper wires in each pole between the pole base and the luminaire.
- All conduit shall include a grounding conductor.
- See Section 679.06 and 679.07.

E. GENERAL

- All electrical material and installation shall meet the requirements of the National Electric Code, State and Local Codes and the Local Utility Company Requirements.
- The load on each branch of a three wire circuit shall be as balanced as possible.
- Conduit locations shown on this drawing are approximate, actual locations shall be determined in the field.
- The contractor shall contact utility companies with underground facilities when excavating in the area of these utilities. The contractor shall also be responsible for contacting and scheduling work with local utilities with facilities in the project area for location of power sources.
- One photocell for the lighting circuit shall be located at the power source or some common point, as directed by the engineer.

F. WORK TO BE PERFORMED BY THE CONTRACTOR

- The Contractor Shall:
- Coordinate all items regarding project power with the Town of Proctor before commencing work.
 - Install 4 new concrete bases with anchor bolts and conduit sweeps for the historic lights. Concrete bases shall be paid for as Concrete, Class AA. See details on Sheet 20.
 - Install 4 light poles, arms, luminaires, wiring, and disconnect plug kits.
 - Install all junction boxes, the conduit, photocell and wiring as detailed on plan drawings.
 - Install power stenchion, Option #4. See Standard E-175U.
 - Install remote two pole relay with circuit breakers for automatic switching of the lighting circuit.
 - The contractor is directed to Specification 679.09 in the VAOT 1995 Specifications regarding power costs for the street lighting.
 - The contractor may open the bridge to traffic without the street lighting in operation. However, the contractor will be required to maintain safe passage of vehicles while workers are completing all street light work.

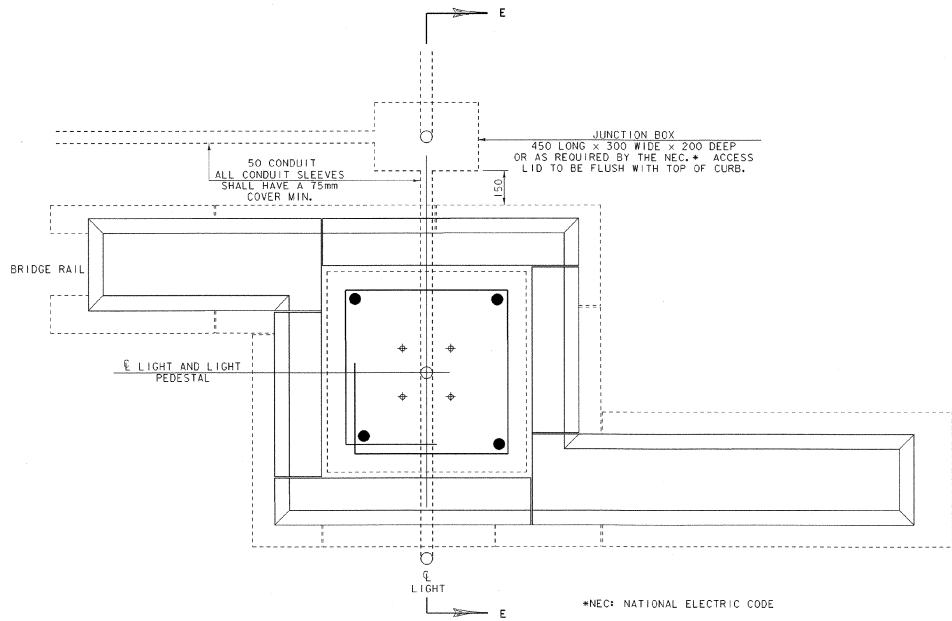
LIGHTING PAY ITEMS

- The item 679.45 "Light Pole (Mod.)" shall be modified so that payment will include the light poles, 5 Way Custom Bracket, Capricorn Globes, light bulbs and anchor bolts (as specified on these plans).
- Ten extra replacement bulbs shall be provided and delivered to the Town of Proctor for their use. The cost to be subsidiary to the item 679.45 "Light Pole (Mod.)".

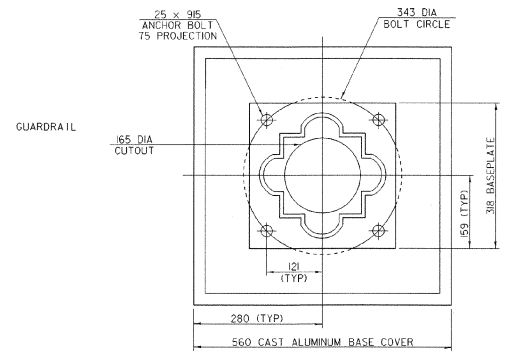
STREET LIGHTING LOCATIONS TABLE					
POLE NO.	LOCATION	OFFSET*	LUMINAIRE MATTS TYPE	MOUNT HEIGHT	REMARKS
1	1+047 LT.	6.1 M	100W Me Ho	2.44 M	MOUNT ON MARBLE RAIL
2	1+047 RT.	6.1 M	100W Me Ho	2.44 M	MOUNT ON MARBLE RAIL
3	1+092 LT.	6.1 M	100W Me Ho	2.44 M	MOUNT ON MARBLE RAIL
4	1+092 RT.	6.1 M	100W Me Ho	2.44 M	MOUNT ON MARBLE RAIL

NOTE: Me Ho = METAL HALIDE
 * = OFFSET TO CENTERLINE POLE & FOUNDATION

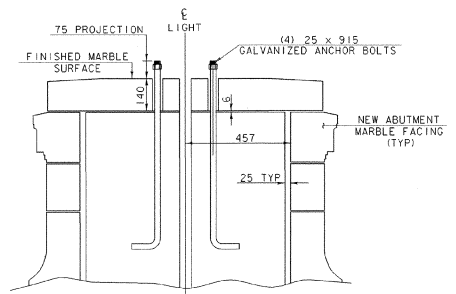
SHEET NAME: STREET LIGHTING PLAN AND NOTES			
PROJECT NAME:	PROCTOR	HIGHWAY NO.:	TH 3
PROJECT NUMBER:	BHF 0155/S	BRIDGE NO.:	2
		OVER:	OTTER CREEK
FILE NAME:	/s/1/94j088/sj088sit.dgn	PLOT DATE:	12-FEB-2002
PROJECT MANAGER:	G.S. ROGERS	DRAWN BY:	J. GILMORE
DESIGNED BY:	C. MEUNIER	IPARM NAME:	sj088spn1
BRIDGE SHEET NUMBER:			SHEET 19 OF 59



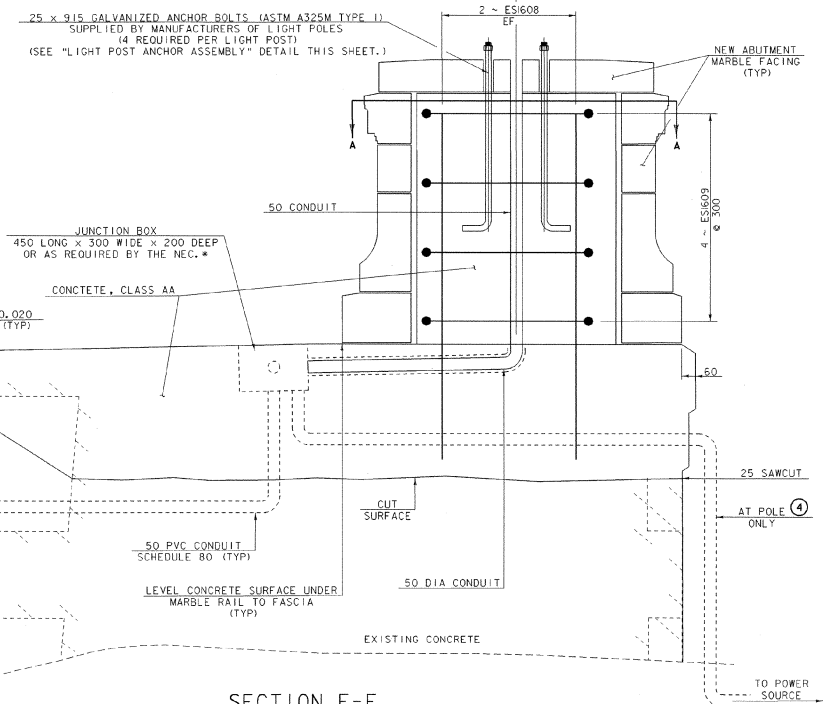
LIGHT PEDESTAL REINFORCING DETAIL
SCALE: 1:100



LIGHT POST ANCHOR PLATE
SCALE: 1:500



LIGHT POST ANCHOR ASSEMBLY
SCALE: 1:100



SECTION E-E
SCALE: 1:100

SHEET NAME: STREET LIGHTING DETAILS			
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3		
PROJECT NUMBER: BHF 0155(S)	BRIDGE NO.: 2		
	OVER: OTTER CREEK		
FILE NAME: /s/1/941088/sj088sit.dgn	PLOT DATE: 12-FEB-2002		
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE		
DESIGNED BY: C. MEUNIER	(P/ARM NAME: sj088sdl)		
BRIDGE SHEET NUMBER:	SHEET 20 OF 59		

GENERAL NOTES

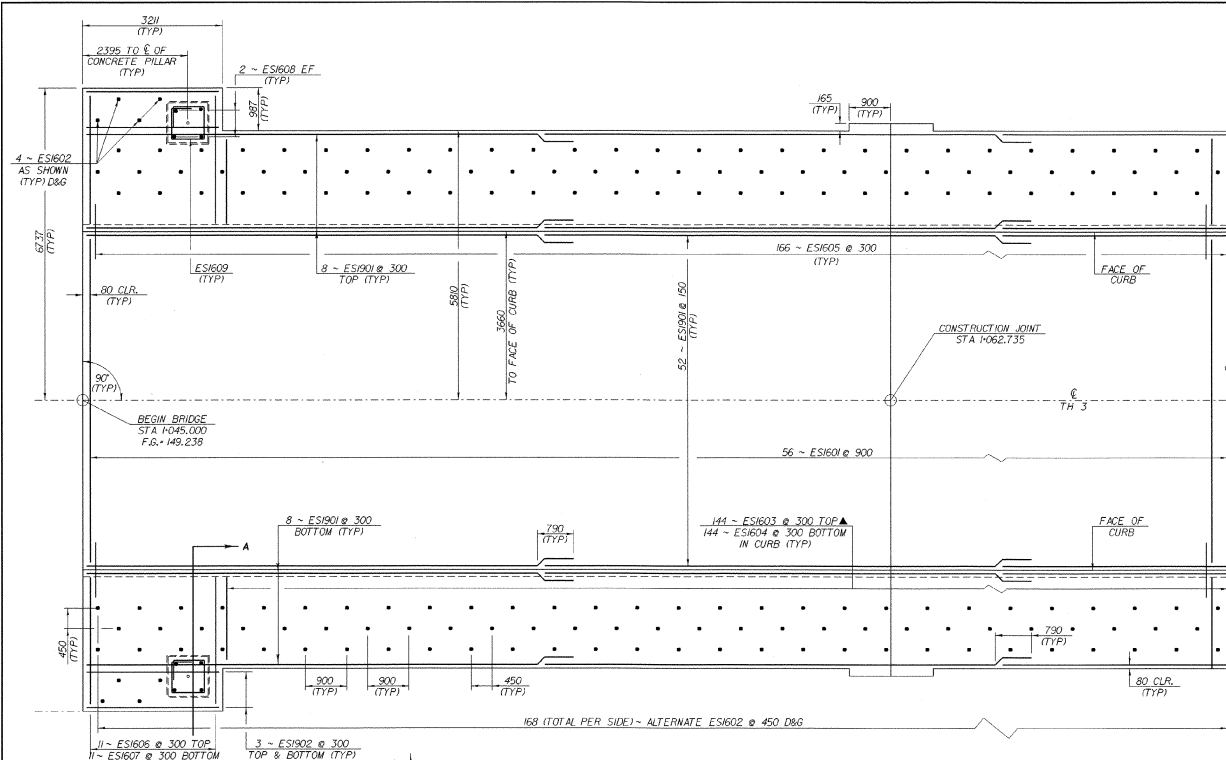


1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 1995, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SIXTEENTH EDITION, AND ITS LATEST REVISIONS.
 2. IN-STREAM CONSTRUCTION SHALL BE RESTRICTED TO JUNE 1 TO OCTOBER 1, UNLESS THE CONTRACTOR OBTAINS WRITTEN PERMISSION FROM THE AGENCY OF NATURAL RESOURCES TO DO WORK OUTSIDE OF THAT TIME FRAME.
 3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION OR POLLUTION, ESPECIALLY THE DISCHARGE OF RAW CONCRETE INTO THE OTTER CREEK.
 4. THE COST OF ON-PROJECT SIGNS AND BARRICADES REQUIRED SHALL BE SUBSIDIARY TO THE ITEM 641.10, "TRAFFIC CONTROL".
 5. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 20 DEGREES C UNLESS OTHERWISE NOTED.
 6. THE KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT, ANY UPWARD KEY SHALL BE PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.
 7. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 25 mm BY 25 mm.
 8. JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 9. ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).

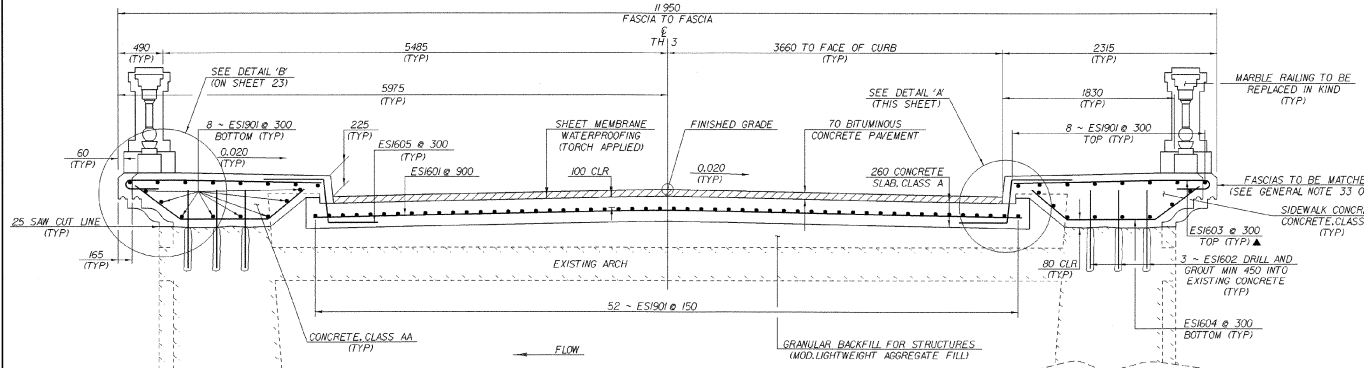
REINFORCING PLACEMENT TOLERANCES SHALL BE:
SPACING + - 5 mm
CLEARANCE + - 5 mm
 10. MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS DETAILED IN THE PROJECT PLANS.
 11. FOR BRIDGE SLAB POURS, THE MAXIMUM TIME LIMIT FOR ANY COMBINATION OF POURS DONE IN ANY ONE DAY SHALL BE EIGHT HOURS. THERE SHALL BE A MINIMUM OF 96 HOURS BETWEEN THE COMPLETION OF ONE DAY'S POUR AND THE BEGINNING OF OTHER ADJACENT POURS. ALL INDIVIDUAL SLAB POURS SHALL START FROM THE LOW END OF THE BRIDGE.
 12. WATER REPELLENT SHALL BE APPLIED TO ALL CONCRETE SURFACES INCLUDING THE TOP OF THE ARCHES AND THE INSIDE FACES OF THE SPANDREL WALLS.
 13. THE DECK SHALL BE "CONCRETE, CLASS A".
 14. THE SIDEWALKS ON THE BRIDGE, SPECIAL SIDEWALK (AS SHOWN ON SHEET 27), AND THE LIGHT POLE BASES SHALL BE "CONCRETE, CLASS BA".
 15. TOWN HIGHWAY 3 IS TO BE CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE TOWN A MINIMUM OF TWO (2) WEEKS PRIOR TO CLOSING THE ROAD. THE CONTRACTOR SHALL CONTACT SID JONES, PROCTOR TOWN CLERK AT (802) 459-3333.
 16. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE DETOUR SIGNS FOR THE CLOSURE OF THE MARBLE BRIDGE. THE DETOUR SIGN PACKAGE IS SHOWN ON SHEETS 13-15. ALL SIGNS MUST BE INSTALLED PRIOR TO THE CLOSURE OF THE BRIDGE. THIS WORK WILL BE PAID FOR UNDER THE ITEM 641.10, "TRAFFIC CONTROL".
 17. ANY REMOVAL, COVERING AND/OR RESETTING OF EXISTING TRAFFIC SIGNS, AS DEMED NECESSARY BY THE RESIDENT ENGINEER, WILL BE CONSIDERED SUBSIDIARY TO THE ITEM 641.10, "TRAFFIC CONTROL". SEE SHEET 34 "PAVEMENT MARKING AND SIGN SHEET" FOR MORE INFORMATION.
 18. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED BY THE USE OF A TEMPORARY BRIDGE. SEE TEMPORARY BRIDGE REQUIREMENTS ON SHEET 2. THE TEMPORARY PEDESTRIAN BRIDGE SHOULD BE IN PLACE PRIOR TO CLOSING THE BRIDGE TO VEHICULAR AND PEDESTRIAN TRAFFIC. THIS WORK WILL BE PAID FOR UNDER THE ITEM 529.12, "TEMPORARY PEDESTRIAN BRIDGE."
 19. ACCESS TO DRIVES SHALL BE MAINTAINED. WHEN THE CONTRACTOR MUST TEMPORARILY RESTRICT ACCESS TO THE DRIVES, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS IN ADVANCE. THIS WORK WILL BE PAID FOR UNDER THE ITEM 641.10, "TRAFFIC CONTROL".
 20. EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.07 LITERS/SQUARE METER BETWEEN SUCCESSIVE COURSES OF PAVEMENT AT THE DISCRETION OF THE ENGINEER.
 21. THE CONTRACTOR MAY ENCOUNTER AN EXISTING CONCRETE SLAB ROADWAY UNDERNEATH THE PAVEMENT AT EACH APPROACH TO THE BRIDGE. THE REMOVAL OF THE SLABS SHALL BE PAID FOR UNDER THE ITEM 203.16, "SOLID ROCK EXCAVATION". A QUANTITY OF 60 CM IS INCLUDED FOR THIS ITEM, FOR ANY REMOVAL THAT MAY BE REQUIRED.
 22. THE SEWER LINE SHOWN ON THE PLANS WAS INSTALLED IN 1999. THE CONTRACTOR SHALL USE CAUTION WHILE WORKING AROUND THE SEWER LINES. FOR EXACT ELEVATIONS AND LOCATION OF THE SEWER LINES, THE CONTRACTOR MAY CONTACT KEVIN SMITH OF WRIGHT ENGINEERING AT (802) 775-2511 OR THERE ARE AS BUILT PLANS ON FILE IN THE STRUCTURES SECTION. IF THERE IS ANY DAMAGE TO THE SEWER LINES, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIRS AT THEIR EXPENSE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY SID JONES OF THE TOWN OF PROCTOR AT (802) 459-3333 TO REPORT THE DAMAGE.
 23. THE FOLLOWING ITEMS SHALL BE REMOVED AND STOCKPILED ON THE PROJECT FOR THE TOWN OF PROCTOR. THE CONTRACTOR SHALL LOAD THESE ITEMS ON TRUCKS FURNISHED AT THE SITE BY THE TOWN FOR REMOVAL FROM THE SITE BY THE TOWN. NOTIFICATION MUST BE GIVEN ONE WEEK IN ADVANCE TO THE TOWN INDICATING WHEN THE MATERIAL WILL BE AVAILABLE. CONTACT SID JONES, PROCTOR TOWN CLERK, AT (802) 459-3333. THIS WORK WILL BE PAID FOR UNDER THE PAY ITEM IN PARENTHESES.
 - A) EXISTING METAL HAND RAILING LOCATED AT EACH CORNER OF THE BRIDGE (ITEM 529.10, "REMOVAL OF EXISTING RAILING (HAND RAIL)")
 - B) EXISTING LIGHT POLES LOCATED AT EACH SOUTH CORNER (ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE")
 - C) EXISTING MARBLE BRIDGE RAILING (ITEM 525.10, "REMOVAL OF EXISTING RAILING (MARBLE RAIL)") (SEE SHEET 23 FOR PAY LIMITS)
 - D) STOP SIGN (ITEM 675.50, "REMOVING SIGNS")
 24. THE METAL HAND RAILING LOCATED AT STATIONS 1+113 LT. TO 1+135 LT. SHALL BE REMOVED DURING THE INSTALLATION OF THE NEW PORTLAND CEMENT SIDEWALK. THE METAL HAND RAILING SHALL BE RESET AT LOCATIONS DETERMINED BY THE RESIDENT ENGINEER. THIS WORK WILL BE PAID FOR UNDER THE ITEM 525.11, "RESETTING RAILING (METAL HANDRAILING)".
 25. A QUANTITY OF 200 SQ M OF ITEM 505.36, "TEMPORARY STEEL SHEET PILING" IS TO BE USED WHERE DEEMED NECESSARY BY THE RESIDENT ENGINEER DURING THE EXCAVATION FOR THE D.I.'S, PIPES, AND OTHER CONSTRUCTION AREAS THAT MAY REQUIRE STABILIZATION SUCH AS EXCAVATION AT THE EAST END OF BRIDGE WHERE THE NEW SEWER LINE MAY NEED PROTECTION AS WELL AS TO MAINTAIN ACCESS TO DRIVE AT THE LIBRARY.
 26. THE METAL HAND RAILING LOCATED AT EACH CORNER OF THE BRIDGE SHALL BE REMOVED WITHOUT CAUSING DAMAGE TO THE WALLS. THE HOLES SHALL BE FILLED WITH A NON-SHRINKING EPOXY GROUT. THE GROUTING WILL BE SUBSIDIARY TO THE ITEM 525.10, "REMOVAL OF EXISTING RAILING (HANDRAIL)".
 27. AFTER PLACEMENT OF THE PIPES AT STA 1+040 LT. +/- AND STA 1+096 RT. +/-, THE STONE WALLS MUST BE REBUILT AROUND THESE PIPES. WE HAVE INCLUDED A QUANTITY OF 10 CM OF THE ITEM 602.20, "DRY RUBBLE MASONRY" FOR THIS REPAIR.
- MARBLE ARCH BRIDGE REPAIR**
28. REMOVE THE EXISTING MARBLE RAILING WITH EXTREME CARE. THE MARBLE RAILING INCLUDES THE BALUSTERS, DIE BLOCKS AND BALUSTER POSTS. THIS WORK WILL BE PAID FOR AS ITEM 525.10, "REMOVAL OF EXISTING RAILING (MARBLE RAIL)".
 29. THE CONTRACTOR SHALL ERECT A DISPLAY OF THE EXISTING RAILING AT A LOCATION DETERMINED BY THE PROCTOR SELECTBOARD. CONTACT SID JONES, (PROCTOR TOWN CLERK) AT (802) 459-3333 FOR EXACT LOCATION. THIS WORK WILL BE PAID FOR AS ITEM 525.11, "RESETTING RAILING (DISPLAY)". SEE SHEET 28 FOR DETAILS AND PAY ITEMS.
 30. PAYMENT FOR REMOVAL OF THE EXISTING BITUMINOUS CONCRETE PAVEMENT ON THE CONCRETE SLAB SHALL BE MADE UNDER THE ITEM 529.10, "REMOVAL OF BRIDGE PAVEMENT." THE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY AT AN OFFSITE LOCATION.
 31. REMOVE THE EXISTING SIDEWALK, CONCRETE SLAB AND MARBLE END BLOCKS. PARTIALLY REMOVE THE SPANDREL WALLS ON EACH SIDE OF THE ARCH TO THE LIMITS SHOWN ON SHEET 25. THIS WORK WILL BE PAID FOR UNDER THE ITEM "PARTIAL REMOVAL OF STRUCTURE."
 32. THERE IS AN EXISTING SEWER LINE LOCATED UNDER THE SIDEWALK ON THE NORTH SIDE OF THE BRIDGE. IT IS NOT IN OPERATION. THE SEWER LINE SHALL BE REMOVED AND DISPOSED OF. THIS WORK WILL BE PAID FOR UNDER THE ITEM 529.10, "PARTIAL REMOVAL OF STRUCTURE".
 33. THE ORNAMENTAL CONCRETE FASCIA OF THE SIDEWALKS ON THE BRIDGE SHALL BE REPLACED IN KIND. THE CONTRACTOR WILL NEED TO MARK A TEMPLATE OF THE FASCIA PRIOR TO THE REMOVAL OF THE EXISTING SIDEWALKS. THE EXISTING ORNAMENTAL CONCRETE WORK WILL BE MEASURED AND DETAILED TO THE SATISFACTION OF THE RESIDENT ENGINEER PRIOR TO THE FORMWORK DEVELOPMENT. THIS WORK WILL BE PAID FOR UNDER THE ITEM, "CONCRETE, CLASS AA".
 34. UPON REMOVAL OF THE CONCRETE SLAB, THE CONTRACTOR SHALL REMOVE ALL FILL THAT IS ON THE EXISTING ARCH. THIS WORK WILL BE PAID FOR UNDER THE ITEM 529.10, "PARTIAL REMOVAL OF STRUCTURE". DURING THIS WORK, THE CONTRACTOR SHALL ENCOUNTER PORTIONS OF THE ORIGINAL SPANDREL WALL. THIS CONCRETE WALL SHALL NOT BE REMOVED DURING THE REMOVAL OF THE FILL.
 35. A) ONCE ALL THE FILL IS REMOVED, THE CONTRACTOR SHALL CLEAN THE INSIDE OF THE ARCHES AND THE VACUUM RESIDENT ENGINEER SHALL DETERMINE THE AREAS WHICH SHALL BE REHABILITATED WITH EITHER "REPAIR OF CONCRETE SUBSTRUCTURE SURFACE CLASS II" OR "CLASS III." THE PROJECT MANAGER SHALL BE CONTACTED BY THE RESIDENT ENGINEER TO DISCUSS THE EXTENT OF REPAIRS REQUIRED.

B) THE EXPOSED CONCRETE SURFACES ON THE UNDERSIDE OF THE ARCHES AS WELL AS THE THE WINGWALLS AND ABUTMENTS SHALL BE REPAIRED. THE CONTRACTOR SHALL REPAIR ALL NECESSARY AREAS THAT ARE ABOVE THE WATER SURFACE. THE CONTRACTOR SHALL NOT PERFORM ANY WORK BELOW THE WATER SURFACE. THE WORK TO REPAIR THE UNDERSIDES OF THE ARCHES SHALL BE AS EITHER "REPAIR OF CONCRETE SUBSTRUCTURE SURFACE CLASS II OR CLASS III." THE CONTRACTOR AND RESIDENT ENGINEER
 36. THE EXISTING DRAIN TUBES SHALL BE CUT FLUSH AT THE TOP SURFACE OF THE ARCHES. THE DRAIN TUBES AND GRATES WILL NOT BE REPLACED. FILTER FABRIC SHALL BE PLACED OVER THE DRAIN HOLES AS DETAILED ON SHEET 25. THIS WORK WILL BE PAID FOR UNDER ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE".
 37. ANY MARBLE FACING THAT IS REMOVED DURING THE REMOVAL OF THE CONCRETE SIDEWALKS AND SLAB SHALL BE REPLACED IN KIND. THIS WORK WILL BE PAID FOR UNDER THE ITEM 602.25, "STONE MASONRY FACING". A QUANTITY OF 10 SQ M IS INCLUDED FOR THIS PAY ITEM FOR REPLACEMENT THAT MAY BE REQUIRED.
 38. AFTER THE CONCRETE SURFACES ARE REPAIRED ON THE TOP OF THE ARCHES AND THE INSIDE FACES OF THE SPANDREL WALLS AND WINGWALLS, THE CONTRACTOR SHALL SEAL THE CONCRETE WITH WATER REPELLENT.
 39. THE ARCHES SHALL BE BACKFILLED WITH "GRANULAR BACKFILL FOR STRUCTURES (MOD. LIGHTWEIGHT AGGREGATE FILL)". SEE SPECIAL PROVISIONS.
 40. THE FABRICATION OF THE NEW MARBLE RAILING IS BEING DONE UNDER A PREVIOUS CONTRACT AND IS NOT PART OF THIS CONTRACT.
 41. THE FABRICATOR OF THE NEW MARBLE RAILING, GRANITE IMPORTERS INC., (OF BARRE, VT) SHALL BE NOTIFIED TWO WEEKS IN ADVANCE OF THE INSTALLATION OF THE MARBLE RAILING. THIS WILL ALLOW THE FABRICATOR ENOUGH TIME TO TRANSPORT THE RAILING TO THE JOB SITE. CONTACT MARY TOUSIGNANT AT (802) 476-5812.
 42. THE FABRICATOR OF THE NEW MARBLE RAILING WILL PROVIDE A REPRESENTATIVE TO PROVIDE DIRECTIONS TO THE CONTRACTOR TO INSURE CORRECT INSTALLATION OF THE NEW RAILING.
 43. THE NEW MARBLE RAILING SHALL BE INSTALLED WITH EXTREME CARE. THIS WORK WILL BE PAID FOR UNDER THE ITEM 525.11, "RESETTING RAILING (MARBLE RAIL)". SEE SHEET 23 FOR PAY LIMITS. THIS ITEM INCLUDES THE SETTING, GROUTING, AND ANCHORING OF THE RAILING. SEE ATTACHED SHOP DRAWINGS FOR MORE INFORMATION. (SHEETS 50.-56.)

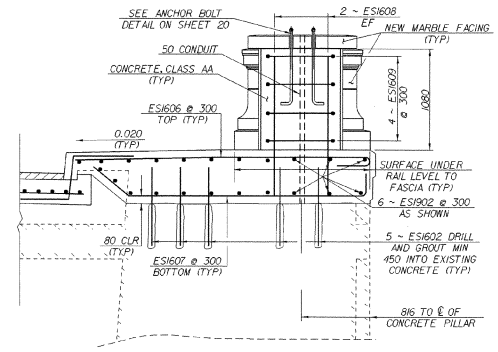
PROJECT NAME:	PROCTOR	
PROJECT NUMBER:	BHF 0155(5)S	
FILE NAME:	/s1r1/04/088/088gen.xls	PLOT DATE: 8/15/01
PROJECT LEADER:	G.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY:	C. MEUNIER	CHECKED BY: C. MEUNIER
GENERAL NOTES SHEET		SHEET 21 OF 59



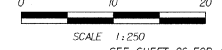
DECK REINFORCING PLAN
 SCALE 1:500
 OTHER HALF OF BRIDGE SAME, BUT OPPOSITE HAND
 (CONSTRUCTION JOINT AT STA 1077.265 AND END BRIDGE STA 1095)



DECK REINFORCING SECTION
 SCALE 1:250



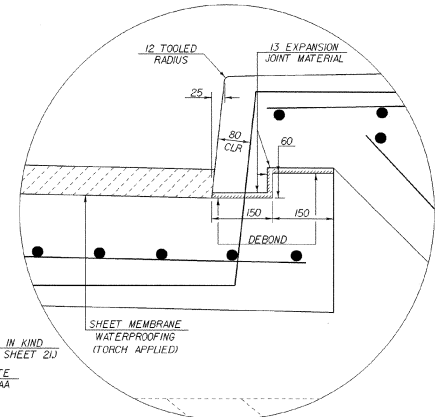
SECTION A-A



SCALE 1:250
 SEE SHEET 26 FOR ADDITIONAL DETAILS

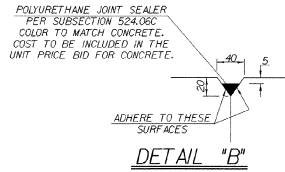
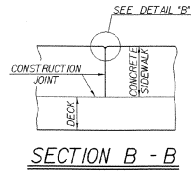
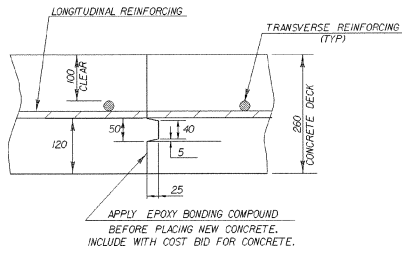
NOTE:

1. 80 CLEAR UNLESS OTHERWISE NOTED
2. D&G = DRILL AND GROUT MIN OF 450 INTO EXISTING CONCRETE
3. NF = NEAR FACE
 FF = FAR FACE
 EF = EACH FACE
4. ▲ = CUT TO FIT IN FIELD
5. (---) = EXISTING CONCRETE OR MARBLE TO REMAIN



DETAIL 'A'
 NTS

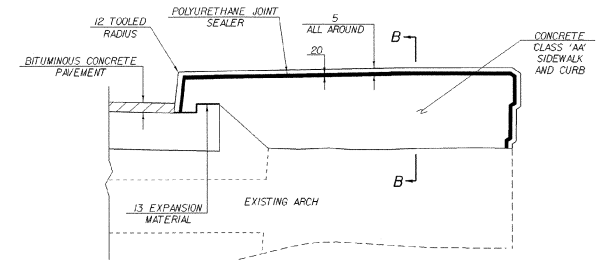
SHEET NAME: DECK REINFORCING DETAILS		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	BRIDGE NO.: 2
PROJECT NUMBER: BHF 0155(S)S	OVER: OTTER CREEK	
FILE NAME: /str1/941088/sj088sup.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088dsg.d	
BRIDGE SHEET NUMBER:	SHEET 22 OF 59	



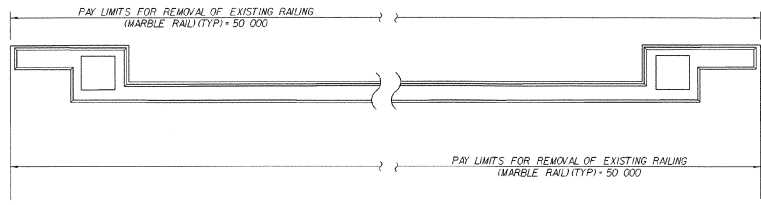
NOTES

1. CONSTRUCTION JOINTS THROUGH CONCRETE SIDEWALKS SHALL BE SPACED IN 3 EQUAL SECTIONS PER SLAB SECTION. CONCRETE SHALL BE PLACED IN ALTERNATING SECTIONS WITH A MINIMUM OF 48 HOURS DELAY BETWEEN ADJACENT POURS.
2. LONGITUDINAL REINFORCING SHALL PASS THROUGH CONCRETE SIDEWALK CONSTRUCTION JOINTS.

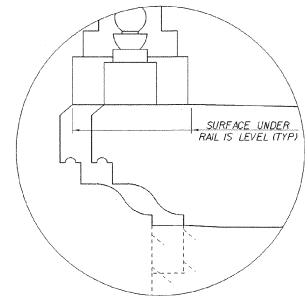
TRANSVERSE BRIDGE SLAB CONSTRUCTION JOINT DETAILS
NTS



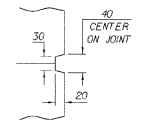
TYPICAL SECTION THROUGH CONCRETE CURB CONSTRUCTION JOINT



RESETTING RAIL

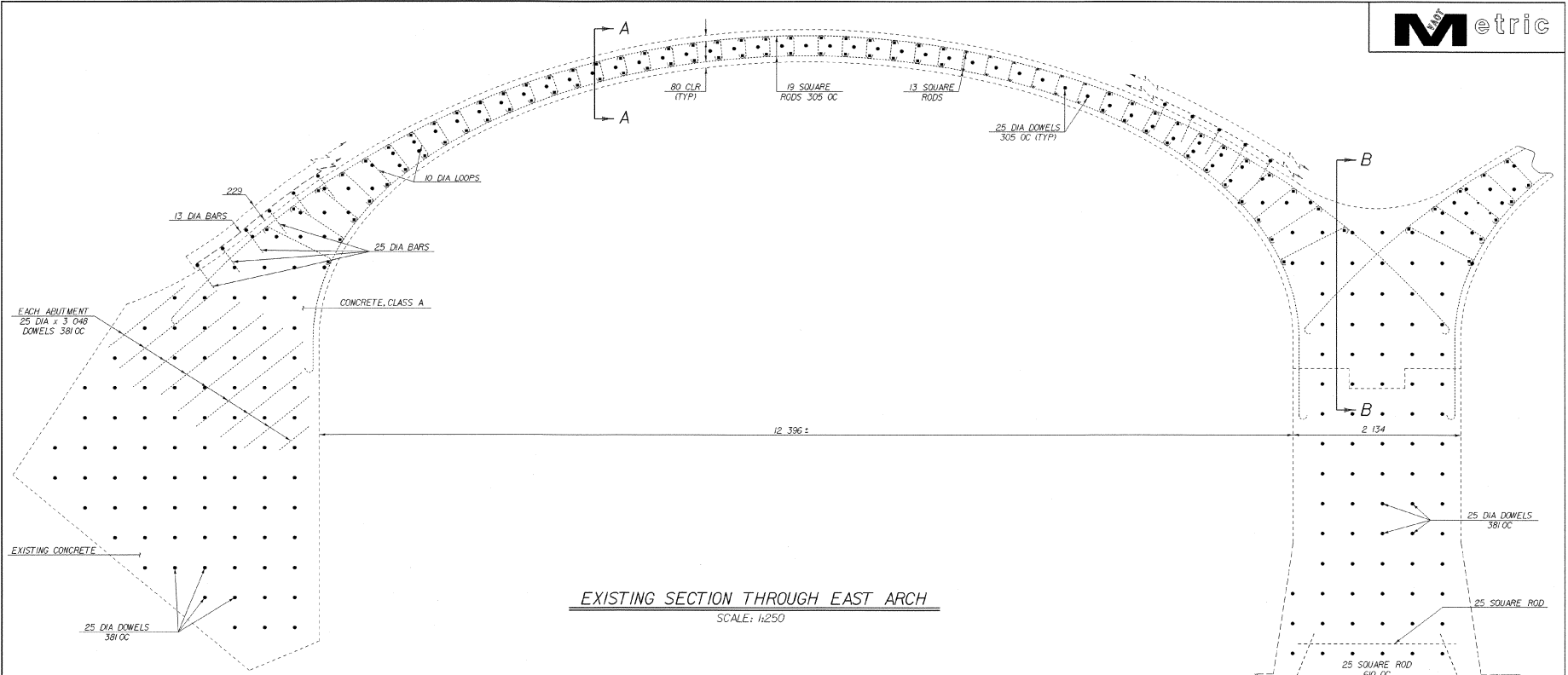


DETAIL "B"
NTS



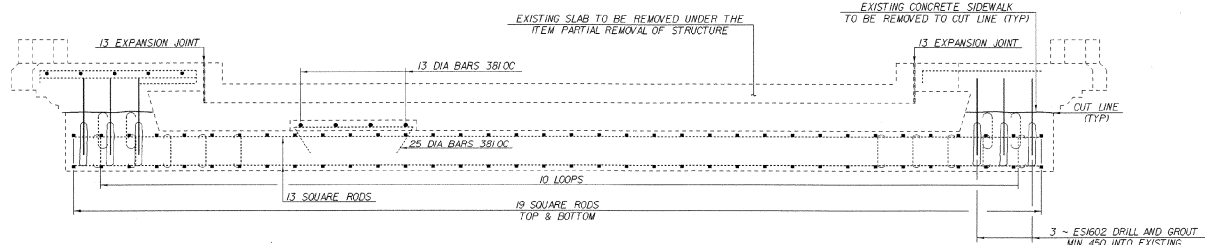
SCORE MARK DETAIL

SHEET NAME: ADDITIONAL SLAB/BRIDGE DETAILS		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2	
	OVER: OTTER CREEK	
FILE NAME: /s/r1/94J088/sj088sup.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: C.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088mnds.l	
BRIDGE SHEET NUMBER:	SHEET 23 OF 59	



EXISTING SECTION THROUGH EAST ARCH
SCALE: 1:250

- NOTE:**
1. NF = NEAR FACE
 2. FF = FAR FACE
 3. EF = EACH FACE
 4. ▲ = CUT TO FIT IN FIELD
 5. 80 CLR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 6. SEE SHEET 25 FOR SUBSTRUCTURE REPAIR NOTES

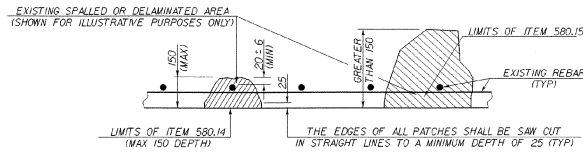


EXISTING SECTION THROUGH CROWN OF ARCH
SECTION A-A
NTS

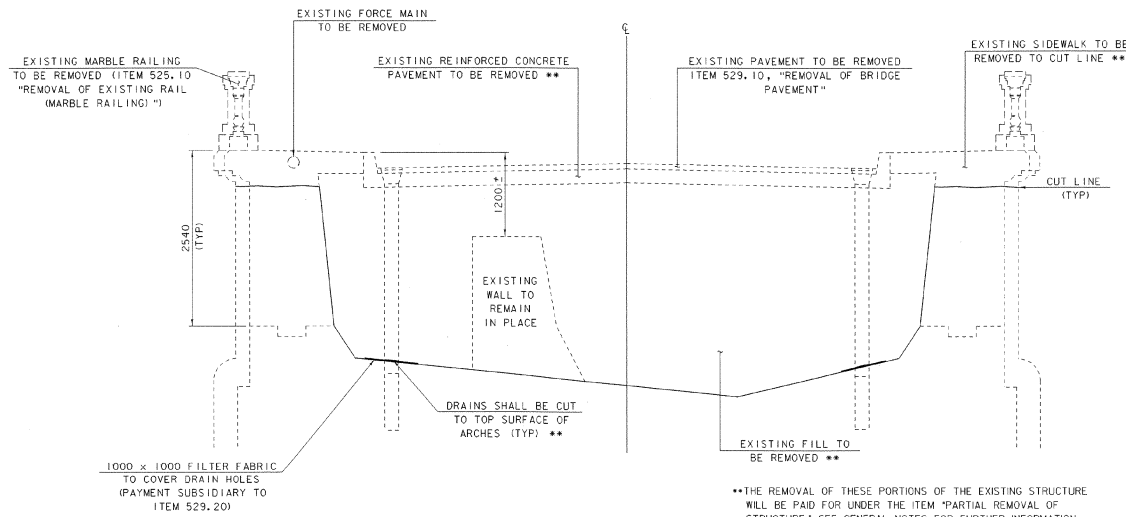
SHEET NAME: EXISTING SECTION OF ARCH	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /s:/r1/94j088/sj088sup.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: C.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088@soi
BRIDGE SHEET NUMBER:	SHEET 24 OF 59

SUBSTRUCTURE REPAIR NOTES FOR PIERS, ABUTMENTS AND ARCHES
(INTERIOR AND EXTERIOR)

- I. This work shall include removal of unsound and delaminated concrete as directed by the engineer. The prepared surfaces shall be thoroughly sandblasted to remove all loose material and any contaminants or efflorescence. The reinforcing steel (if exposed) shall be sandblasted. The material used to fill a patch shall be placed and finished or formed so that the final surface will have the same score marks and exterior face appearance as the original being repaired. The surface shall be thoroughly wetted prior to placement of patching material or new concrete. Immediately prior to placement, the surface shall be coated with neat cement paste, mixed to the consistency of thick latex paint (thoroughly brushed into the surface). When "Overhead and Vertical Concrete Repair Material" conforming with subsection 780.02 is used, the bonding agent (if any required) and its application procedure shall comply with the requirements of the patching material manufacturer. Payment for bonding agent will be subsidiary to Item 580.14 or 580.15.
- A. The limits for removal of concrete under Item 580.14 "Repair of Concrete Substructure Surface, Class II" shall be from the existing concrete surface to a minimum depth of 120mm +/- 6mm inside the inside face of reinforcing steel and to a maximum depth of 150mm from the existing concrete surface, all work and materials necessary for repairing a patch and filling it shall be included in the unit price bid Item 580.14. "Repair of Concrete Substructure Surface, Class II." The filling material will be "concrete, Class A," or an acceptable pneumatically applied concrete (See Special Provisions). The edges of all patches shall be saw cut in straight lines to a minimum depth of 25 mm.
- B. The limits for removal of concrete under Item 580.15 "Repair of Concrete Substructure Surface, Class III" shall be from the existing concrete surface to a depth of greater than 150mm. All work and material necessary for repairing and filling patches shall be included in the unit price for Item 580.15 "Repair of Concrete Substructure Surface, Class III." The filling material may be either concrete "Class A," or an acceptable pneumatically applied concrete (See Special Provisions). The edges of all patches shall be saw cut in straight lines to a minimum depth of 25mm.
- C. If pneumatically applied concrete is selected for "Repair of Concrete Substructure Surface, Class II or Class III," then this type of concrete shall be confined only to vertical and overhead surfaces of the substructure.



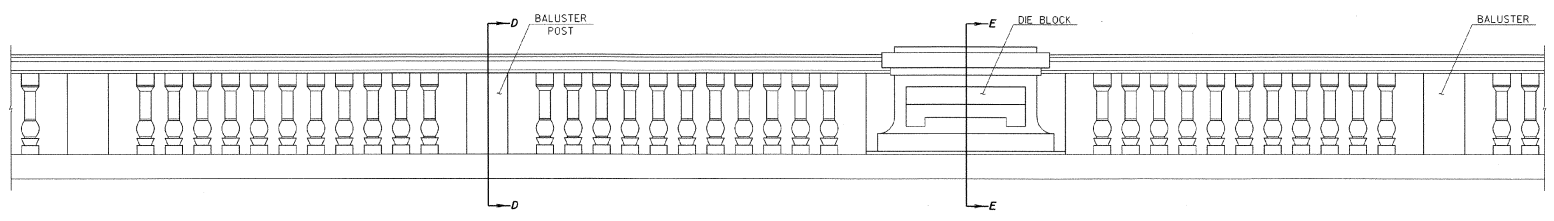
DETAIL SHOWING LIMITS OF ITEMS 580.14 AND 580.15 REPAIR OF CONCRETE SUBSTRUCTURE SURFACE CLASS II OR CLASS III
 N.T.S.



**THE REMOVAL OF THESE PORTIONS OF THE EXISTING STRUCTURE WILL BE PAID FOR UNDER THE ITEM "PARTIAL REMOVAL OF STRUCTURE." SEE GENERAL NOTES FOR FURTHER INFORMATION.

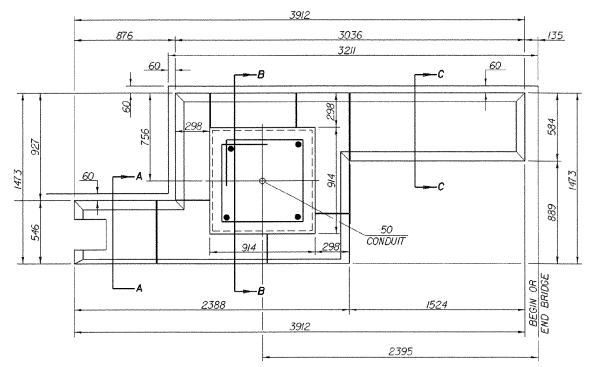
EXISTING SECTION THROUGH ARCH
SECTION B-B
 N.T.S.

SHEET NAME: SUBSTRUCTURE REPAIR DETAILS		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2	
	OVER: OTTER CREEK	
FILE NAME: /str1/94j088/sj088sup.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088sup.d	
BRIDGE SHEET NUMBER:	SHEET 25 OF 59	

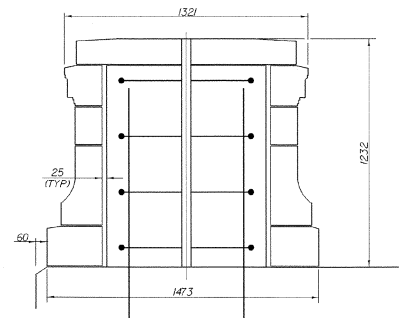


NEW MARBLE RAIL
SCALE: 1/200

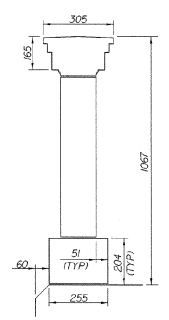
SEE ATTACHED SHOP DRAWINGS FOR
DIMENSIONS OF RAIL, SHEETS 50-55.



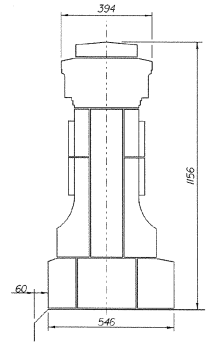
**BOTTOM LEVEL PLAN
(MARBLE ABUTMENT)**
SCALE: 1/200



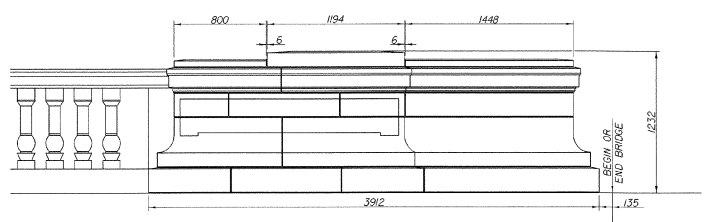
SECTION B-B
NTS



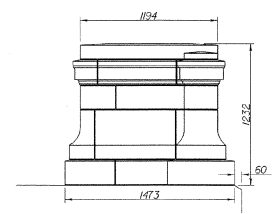
SECTION D-D
SCALE: 1/100



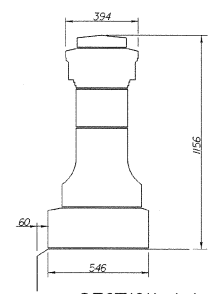
SECTION E-E
SCALE: 1/100



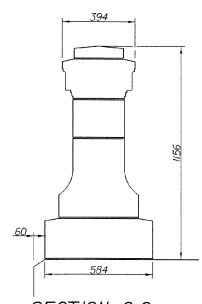
**FRONT ELEVATION
(MARBLE ABUTMENT)**
SCALE: 1/200



RIGHT SIDE ELEVATION
SCALE: 1/200



SECTION A-A
NTS



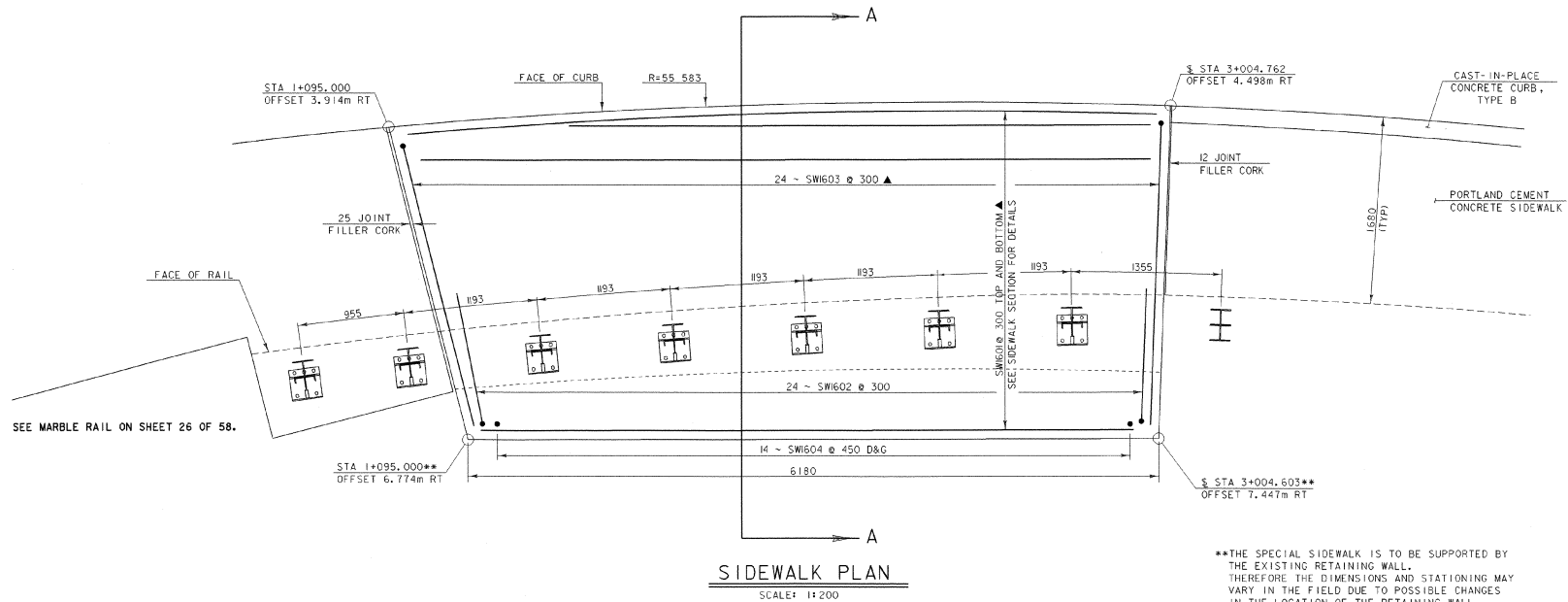
SECTION C-C
NTS

NOTE:

1. NF = Near Face
2. FF = Far Face
3. EF = Each Face
4. ▲ = Cut to fit in the field
5. 80 Clear unless otherwise specified on the plans.
6. The contractor shall drill 20 diameter holes in the deck for 15 diameter x 150 long stainless steel dowels. These dowels shall be supplied by Granite Importers Inc. See sheets 50-56 for locations.
7. Drill 50 diameter holes in deck for 25 dia stainless steel threaded rod, one (1) at each die block posts and two (2) each at marble abutments. These threaded rods with nuts and washers shall be provided by Granite Importers Inc. See sheets 50-56 for locations.
8. Place vertical dovetail slots in "Concrete Light Pedestal" (at marble abutments) for use with dovetail anchors to anchor marble pieces to concrete. The contractor shall provide appropriate anchors. The anchors shall be austenitic stainless steel ASTM A276 Type 304.
9. The contractor shall transfer the plaque "In Memory of Fletcher Dutton Proctor" to new southwest marble abutment. Drill and anchor the plaque as per the resident engineer. This work is subsidiary to the Item 525.11, "Resetting Railing Marble Railing."

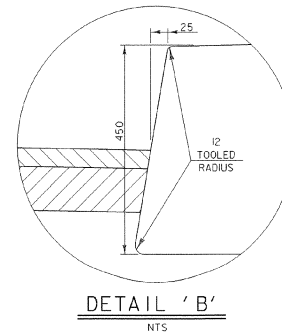
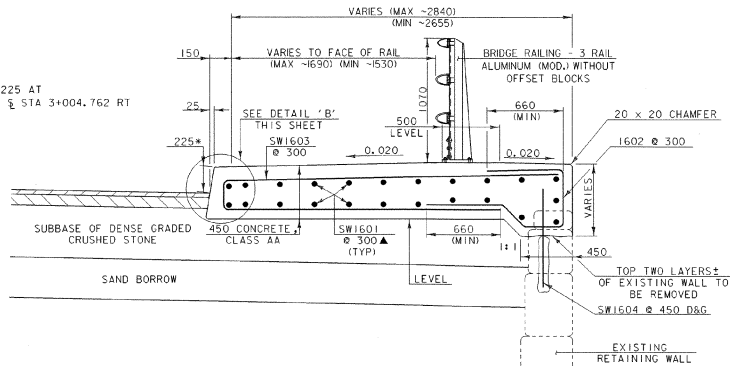
10. The contractor is responsible for modifications to any concealed portions of the marble railing to allow installation as intended.
11. Granite Importers will provide 12 hours to advise the contractor on proper installation of the marble railing.
12. Item 524.20 Polyurethane Joint Sealer shall be used for expansion joints (shown as caulk on sheets 50-56) in the bridge rail and around 15 diameter stainless steel dowel when labeled non-staining sealant on sheets 50-56. For location of expansion joints, see sheets 50-56. (Backer material to be as recommended by the manufacturer of the Joint Sealer.)
13. Item 530.30, "Epoxy Mortar" shall be used for the grouting of the 15 diameter stainless steel dowels (shown as non-staining mortar on sheets 50-56) and 25 diameter anchor rods.
14. Item 501.55, "Mortar, Type 1" (with white Portland Cement) shall be used for the grouting between marble pieces.

SHEET NAME: NEW MARBLE ABUTMENT DETAILS		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(S)	BRIDGE NO.: 2	
	OVER: OTTER CREEK	
FILE NAME: /str1/94j088/sj088sup.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088mob.j	
BRIDGE SHEET NUMBER:	SHEET 26 OF 59	



**THE SPECIAL SIDEWALK IS TO BE SUPPORTED BY THE EXISTING RETAINING WALL. THEREFORE THE DIMENSIONS AND STATIONING MAY VARY IN THE FIELD DUE TO POSSIBLE CHANGES IN THE LOCATION OF THE RETAINING WALL.

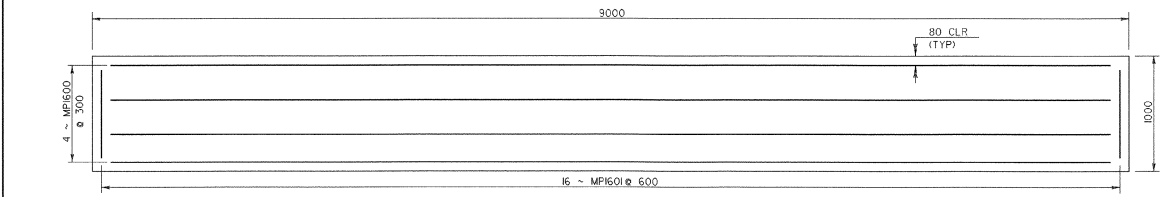
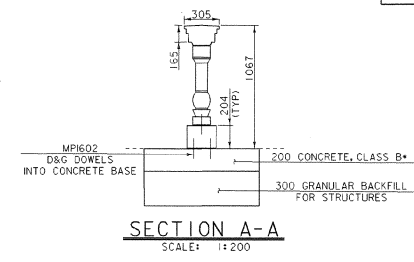
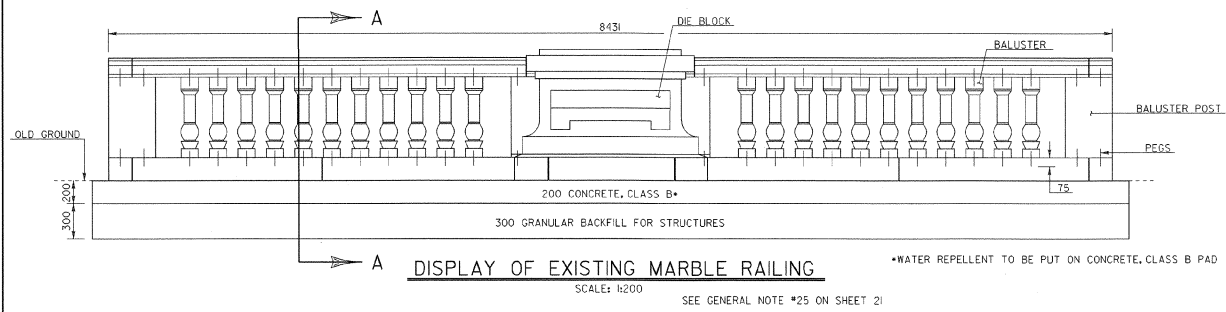
*TAPER CURB HEIGHT FROM 225 AT STA 1+095 RT TO 175 AT STA 3+004.762 RT



NOTES:

1. NF = NEAR FACE
2. FF = FAR FACE
3. EF = EACH FACE
4. ▲ = CUT TO FIT IN FIELD
5. 80 CLEAR UNLESS OTHERWISE SPECIFIED ON PLANS
6. D&G = DRILL AND GROUT DOWELS A MINIMUM OF 450 INTO EXISTING WALL. **USE EXTREME CARE.**
7. SEE SHEETS 28 - 32 FOR ALUMINUM BRIDGE RAILING DETAILS.

SHEET NAME: SPECIAL SIDEWALK DETAILS		
PROJECT NAME: PROCTOR	BRIDGE NO.: 2	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	OVER: OTTER CREEK	
FILE NAME: /s/r/1/94j088/sj088r.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: C.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNER	P&M NAME: sj088ar6.1	
BRIDGE SHEET NUMBER:	SHEET 21 OF 59	

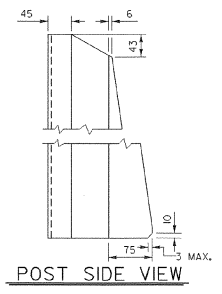
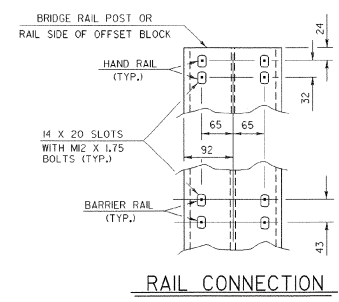
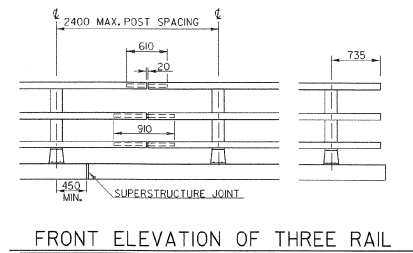
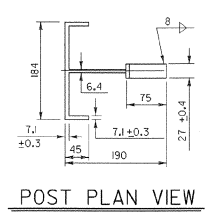
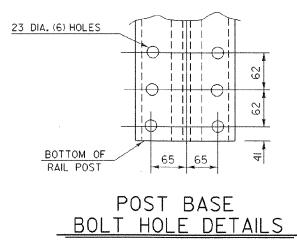
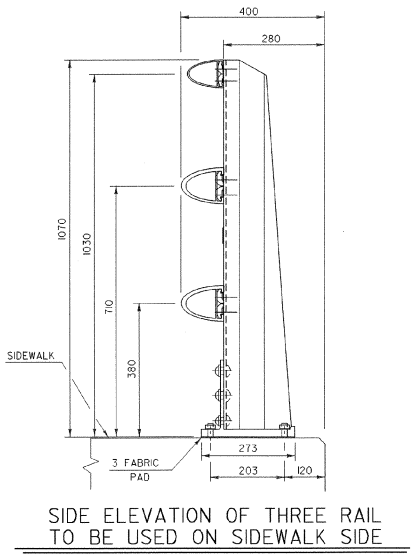


NUMBER	BAR	LENGTH	MARK	TYPE
4	16	8840	MPI600	STR
16	16	840	MPI601	STR
62	16	150	MPI602	STR

NOTES:

1. THE CONCRETE IN THE PAD IS TO BE PAID FOR UNDER THE ITEM 501.25 "CONCRETE, CLASS B."
2. THE REINFORCING STEEL IS TO BE PAID FOR UNDER THE ITEM 507.15 "REINFORCING STEEL."
3. THE GRANULAR BACKFILL IS TO BE PAID FOR UNDER THE ITEM 204.30 "GRANULAR BACKFILL FOR STRUCTURES."
4. THE WATER REPELLENT IS TO BE PAID FOR UNDER THE ITEM 514.10 "WATER REPELLENT."
5. THE DRILLING AND GROUTING OF DOWELS IS TO BE PAID FOR UNDER THE ITEM 507.16 "DRILLING AND GROUTING OF DOWELS."
6. ALL OTHER WORK, TO ERECT THIS DISPLAY, WILL BE PAID FOR AS ITEM 525.11 "RESETTING RAIL (DISPLAY)."

SEE SHEETS 29-32 FOR ADDITIONAL ALUMINUM BRIDGE RAILING AND ALUMINUM APPROACH RAILING DETAILS.



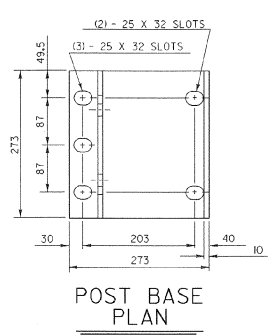
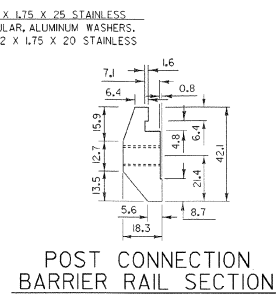
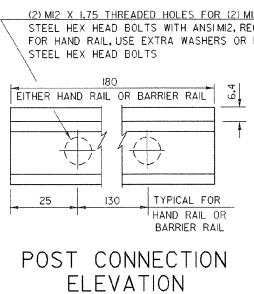
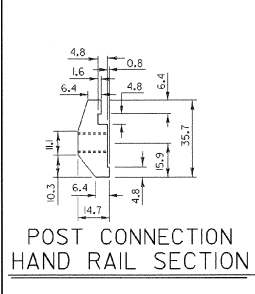
NOTE: RAIL POSTS ARE TO BE SET NORMAL TO GRADE, UNLESS OTHERWISE DESIGNATED ON BRIDGE PLANS. ALL DIMENSIONS ARE TYPICAL UNLESS OTHERWISE DESIGNATED ON BRIDGE PLANS.

SHEET NAME: MISCELLANEOUS RAILING DETAILS		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(S)	BRIDGE NO.: 2	OVER: OTTER CREEK
FILE NAME: /str/94j088/sj088ra.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088ar1.j	
BRIDGE SHEET NUMBER:	SHEET 28 OF 59	

RAIL POST DETAILS ON SUPERSTRUCTURE

NOTES

- ANCHOR BOLTS, WASHERS & HEAVY HEXAGONAL NUTS MAY BE ANY OF THE FOLLOWING:
 - ASTM F 568M, CLASS 8.8 GALVANIZED.
 - ASTM M 164M GALVANIZED, OR
 - BOLTS AND WASHERS OF STAINLESS STEEL ASTM F 738M, CLASS A1-70, CONDITION CW, ALLOY TYPE 304 WITH STAINLESS STEEL NUTS OF ASTM F 836M CLASS A1-70, CONDITION CW, CW, ALLOY TYPE 304.
- ALUMINUM POSTS, POST BASES, SPLICE BARS, CONNECTION BARS AND RAILS SHALL CONFORM TO ASTM B 221M ALLOY 6061-T6 OR ALLOY 6351-T5. MINIMUM YIELD STRENGTH $F_y = 240$ MPa.
- ALUMINUM RAIL AND CAPS SHALL CONFORM TO ASTM B 26/B 26M ALLOY 356-T6.
- THE POST, RAIL AND OFFSET CONNECTION BOLTS AND WASHERS SHALL CONFORM TO ASTM F 738M, CLASS A1-50, CONDITION AF, ALLOY TYPE 304. NUTS FOR THESE BOLTS SHALL CONFORM TO ASTM 836M, CLASS A1-50, CONDITION AF, ALLOY TYPE 304.
- RIVETS SHALL BE COLD DRIVEN HIGH BUTTON HEAD "CONE POINT", CONFORMING TO ASTM B 316/B 316M ALLOY 6061-T6.
- THE ANCHOR PLATE FOR THE POST ANCHOR ASSEMBLY SHALL BE AASHTO M 183M/M 183 STRUCTURAL STEEL.
- WELDING SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 506.10 USING THE GMAW-INERT GAS PROCESS AND AWS ER 5356 ELECTRODE WIRE.
- UNLESS OTHERWISE SPECIFIED, ANCHOR BOLTS SHALL BE CAST INTO THE CONCRETE AS DETAILED.
- WHENEVER FEASIBLE, BARRIER RAIL AND HAND RAIL SECTIONS SHALL BE FULL LENGTH SECTIONS ($12\text{ m} \pm$) AND WHEN PRACTICAL SHALL BE ATTACHED TO THREE POSTS. RAILS SHALL BE SPLICED AT EACH DECK JOINT AND INTERMITTENTLY AS REQUIRED. SPLICES SHALL OCCUR WITHIN THE SAME PANEL.
- ENDS OF RAILS SHALL BE CUT SQUARE AND GROUND FREE OF BURRS OR RAGGED EDGES. EXPOSED ENDS SHALL BE CAPPED.
- THE CONCRETE CONTACT SURFACE AT THE POST BASE SHALL BE BUSH HAMMERED AND/OR SHIMMED AS REQUIRED FOR PROPER POST ALIGNMENT. POST HEIGHT ADJUSTMENTS LESS THAN 6mm SHALL BE WITH 2mm AND 3mm SHIMS. CORRECTIONS EXCEEDING 6mm SHALL BE WITH EPOXY MORTAR CONFORMING WITH SECTION 530. FABRIC BEARING PADS AND ANY REQUIRED SHIMS OR EPOXY MORTAR ARE SUBSIDIARY TO THE UNIT PRICE BID FOR THE RAILING.
- SHIMS AND 3mm FABRIC BEARING PADS SHALL BE 273mm SQUARE WITH SLOTTED HOLES SIZED AND LOCATED THE SAME AS THE POST BASE DETAIL. FABRIC BEARING PADS SHALL CONFORM TO SUBSECTION 731.01 OR 731.02, SHIM MATERIAL SHALL BE ASTM B 209M ALLOY 1100-O.
- EXTRUDED SECTIONS ARE DETAILED TO COMPLY WITH CURRENT AASHTO-ACC-ARTBA STANDARDS. MINOR VARIATIONS OF THE DETAILS SHOWN MAY BE CONSIDERED PROVIDING THEY DO NOT REDUCE THE STRENGTH CAPACITY OF THE RAIL SYSTEM.
- ALUMINUM WASHERS SHALL BE ASTM B209M ALLOY ACLA 2024-T4.
- ALUMINUM APPROACH RAIL POSTS SHALL CONFORM TO ASTM SPECIFICATION B 308/ B 308M.
- THE BRIDGE RAILING SYSTEM AND RELATED HARDWARE SHALL BE ANODIZED TO A HARD BLACK (SATIN FINISH COLOR) EXCEPT AS NOTED. (SEE SPECIAL PROVISIONS.)
- ANCHOR BOLTS, WASHERS AND HEAVY HEX NUTS MAY BE ANY OF THE FOLLOWING:
 - ASTM A449 GALVANIZED, OR
 - AASHTO M64 (ASTM A325) GALVANIZED.
- SEE SHEET 28 FOR ADDITIONAL ALUMINUM RAILING DETAILS.
- SEE SHEET 30 FOR ALUMINUM APPROACH RAILING DETAILS.

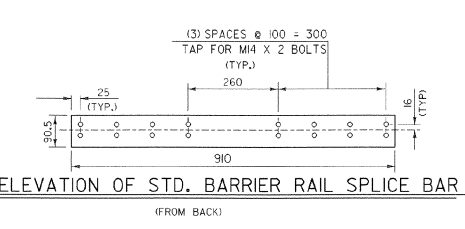
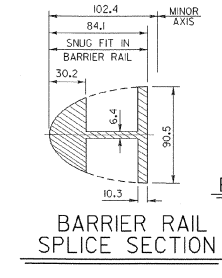
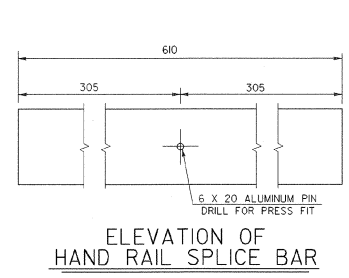
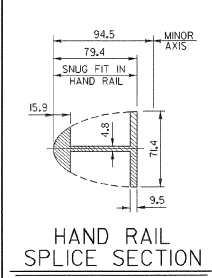


POST CONNECTION
HAND RAIL SECTION

POST CONNECTION
ELEVATION

POST CONNECTION
BARRIER RAIL SECTION

POST BASE
PLAN

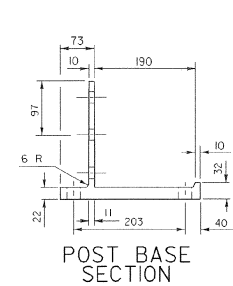
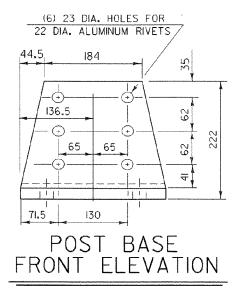
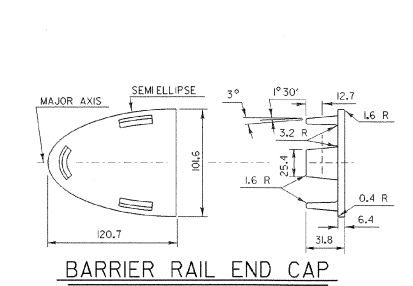
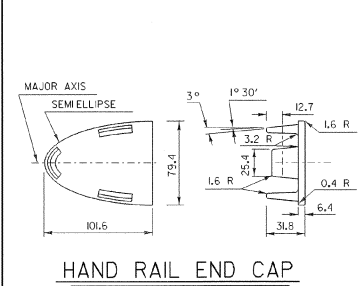


HAND RAIL
SPLICE SECTION

ELEVATION OF
HAND RAIL SPLICE BAR

BARRIER RAIL
SPLICE SECTION

ELEVATION OF STD. BARRIER RAIL SPLICE BAR
(FROM BACK)

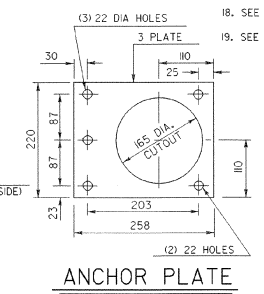
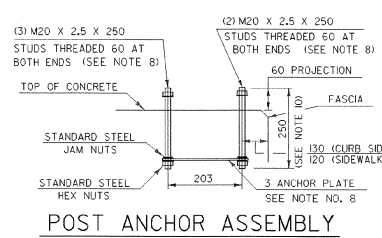
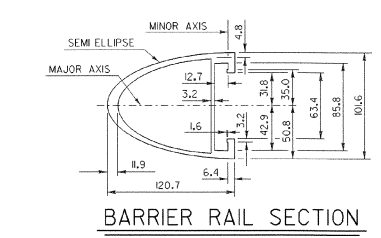
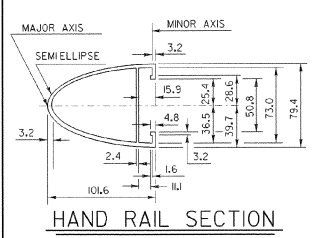


HAND RAIL END CAP

BARRIER RAIL END CAP

POST BASE
FRONT ELEVATION

POST BASE
SECTION



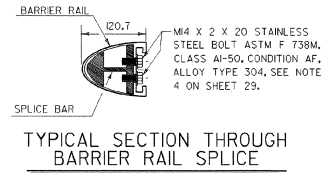
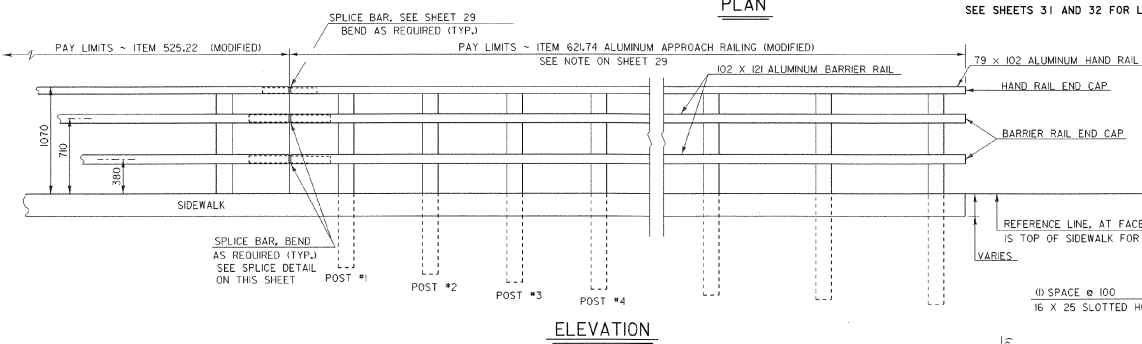
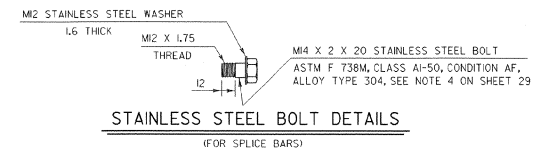
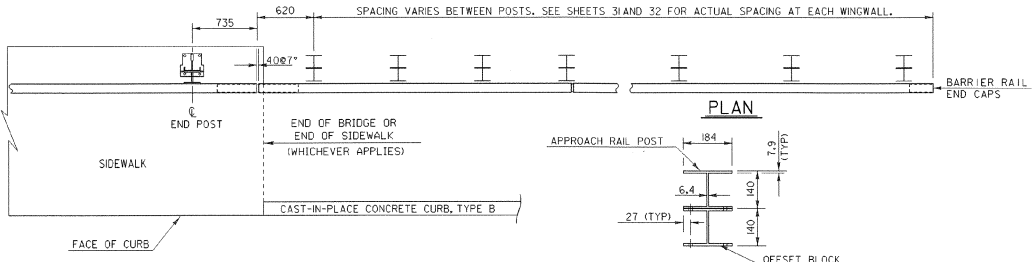
HAND RAIL SECTION

BARRIER RAIL SECTION
(SEE SHEET 30 FOR ELEVATION OF BARRIER RAIL)

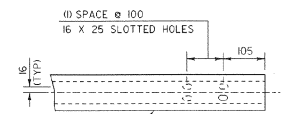
POST ANCHOR ASSEMBLY

ANCHOR PLATE

SHEET NAME: ALUMINUM BRIDGE RAILING DETAILS I	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(S)	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /str/94/088/s/088r-cl.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGERS: C.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: s/088r-2.i
BRIDGE SHEET NUMBER:	SHEET 29 OF 59

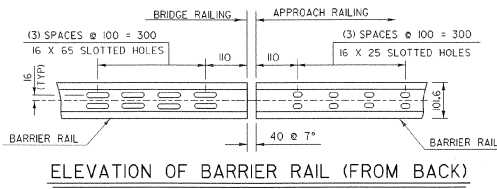
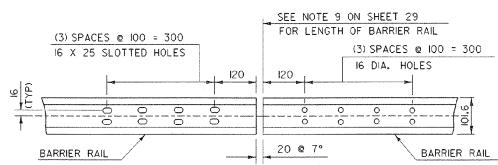
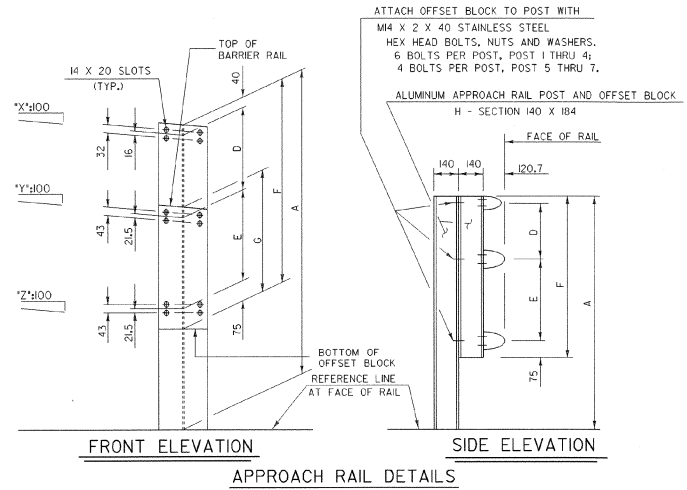


SEE SHEETS 31 AND 32 FOR LENGTHS OF APPROACH RAILING.

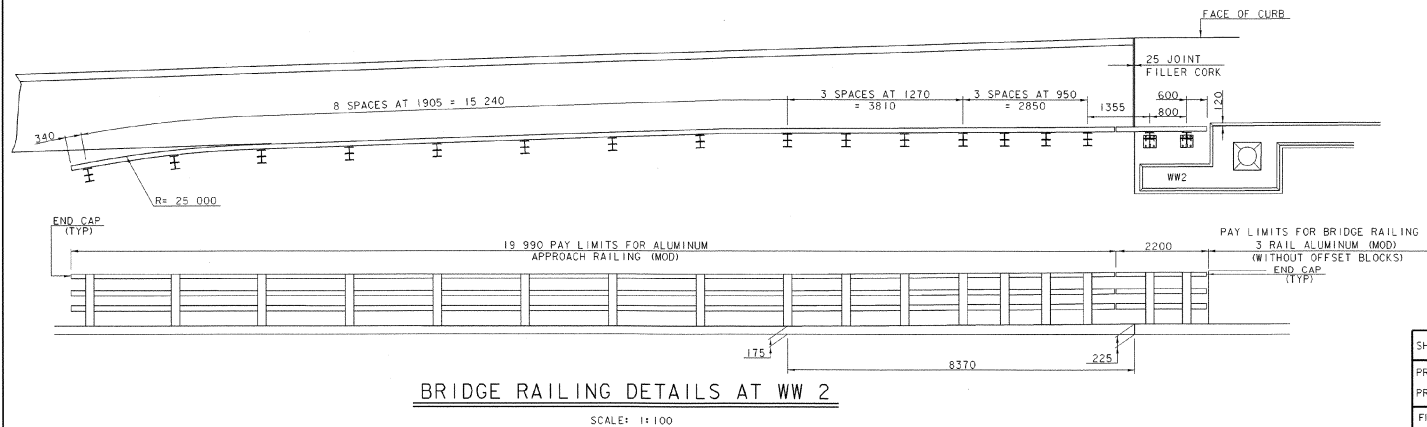
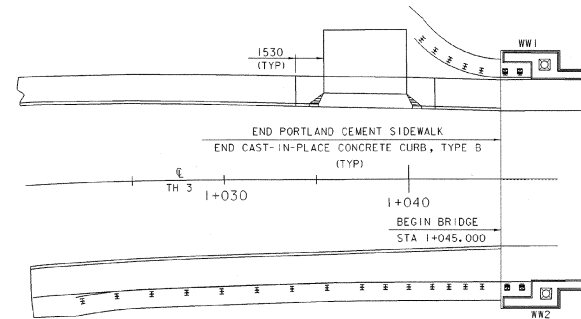
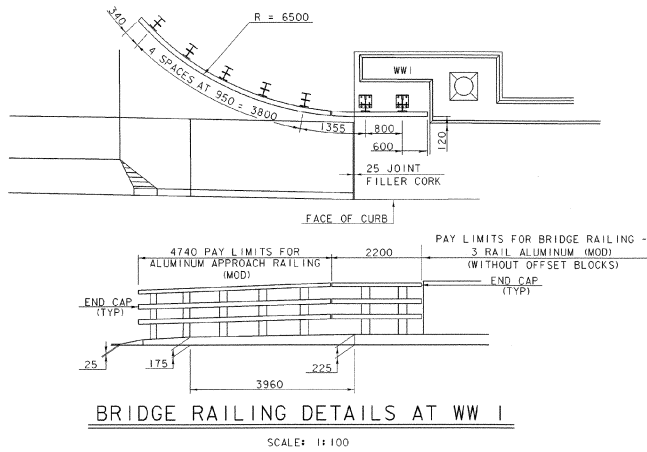


NOTES

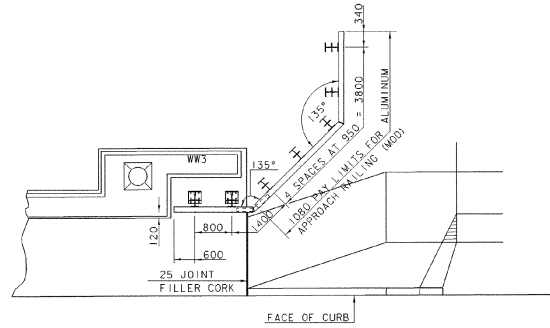
1. POST 1 THROUGH 7 SHALL BE EXTRUDED ALUMINUM.
2. ALL STRUCTURAL STEEL SHALL BE AASHTO M 270/M 270M GRADE 250 GALVANIZED AFTER FABRICATION.
3. ALL ITEMS NOT OTHERWISE INDICATED SHALL MEET THE SPECIFICATION REQUIREMENTS OF THE STANDARD SHEETS ON WHICH THEY ARE DETAILED.
4. SEE SHEETS 28 AND 29 FOR ALUMINUM BRIDGE RAILING DETAILS.
5. DETAILS ARE SHOWN FOR TRANSITION TO A 3 RAIL ALUMINUM BRIDGE RAILING.
6. DIMENSIONS SHOWN ARE FROM A REFERENCE LINE AT THE FACE OF POST FOR A NORMAL CROWNED SECTION. APPROPRIATE CORRECTIONS SHALL BE MADE FOR CROSS SLOPES OTHER THAN A NORMAL SECTION.
7. THE APPROACH RAILING SYSTEM AND RELATED HARDWARE SHALL BE ANODIZED TO A HARD BLACK SATIN FINISH. (SEE SPECIAL PROVISIONS.)



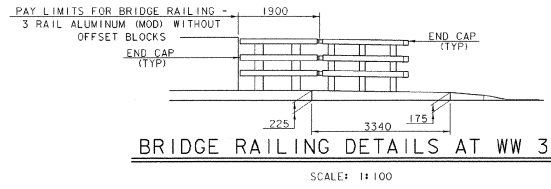
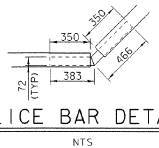
SHEET NAME: ALUMINUM BRIDGE RAILING DETAILS 2		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(S)	BRIDGE NO.: 2	OVER: OTTER CREEK
FILE NAME: /s/tri/94j088/sj088r-ai.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088ar-3.1	
BRIDGE SHEET NUMBER:	SHEET 30 OF 59	



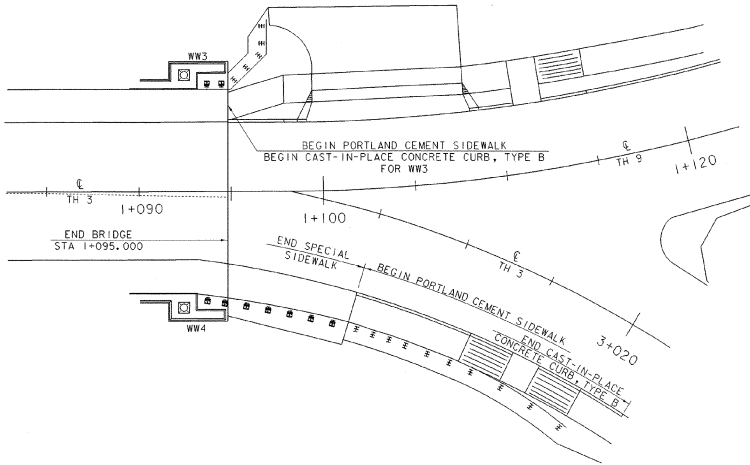
SHEET NAME: ALUMINUM RAILING END DETAILS 1 OF 2		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2	OVER: OTTER CREEK
FILE NAME: /str/94j088/ej088ra.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088ra4.1	
BRIDGE SHEET NUMBER:	SHEET 31 OF 59	



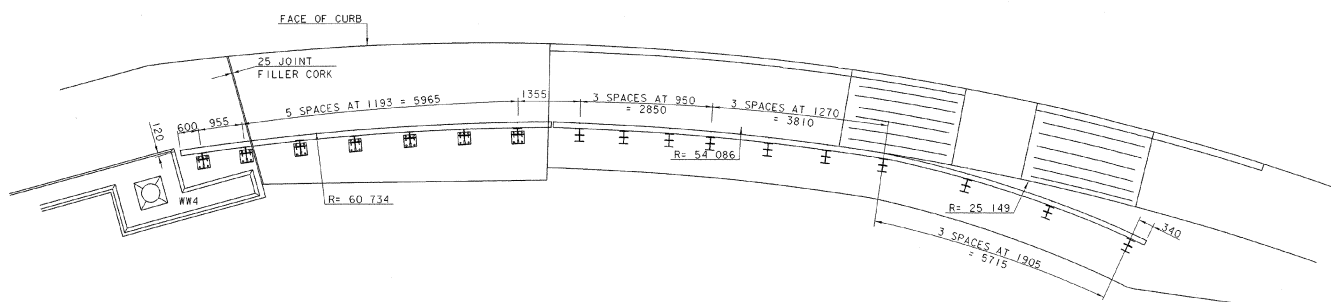
SPLICE BAR DETAIL



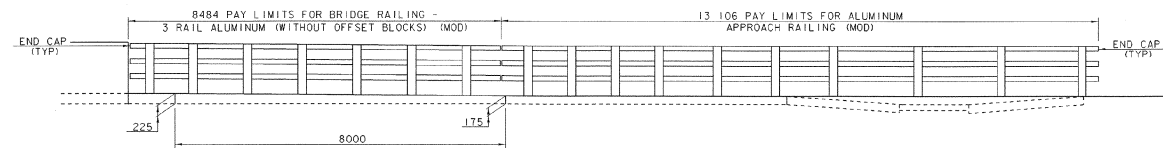
BRIDGE RAILING DETAILS AT WW 3



BRIDGE RAILING DETAILS AT WW 3 AND WW 4



BRIDGE RAILING DETAILS AT WW 4



SEE SHEET 27 FOR SPECIAL SIDEWALK DETAILS
FOR ADDITIONAL APPROACH RAILING DETAILS SEE SHEETS 28-30

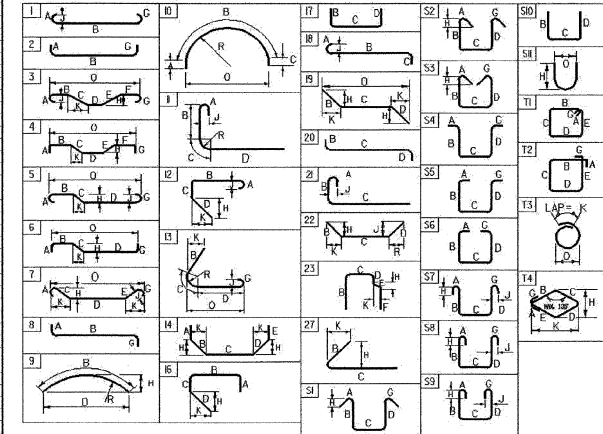
SHEET NAME: ALUMINUM RAILING END DETAILS 2 OF 2		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2	OVER: OTTER CREEK
FILE NAME: /str1/94j088/sj088:aldgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. OILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088ar5.1	
BRIDGE SHEET NUMBER:	SHEET 32 OF 59	

REINFORCING STEEL SCHEDULE

EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O						
DECK																																								
*	57	16	7500	ES1601	STR																																			
	352	16	900	ES1602	STR																																			
	16	16	1500	ES1606	STR																																			
	288	16	2465	ES1603	1	475	1990	---																																
	288	16	2100	ES1604	22		600	900	600																															
	332	16	1670	ES1605	19		650	350	650																															
	44	16	3575	ES1606	1	475	3100	---																																
	44	16	3400	ES1607	16	---	600	2500	300																															
	16	16	3600	ES1609	T2	300	750	750	750	750																														
	420	19	11000	ES1901	STR																																			
*	25	19	3350	ES1902	STR																																			
SIDEWALK																																								
*	24	16	6800	SW1601	STR	▲																																		
	14	16	900	SW1604	STR																																			
	24	16	2750	SW1602	23		850	500	340	210	850																													
	24	16	4870	SW1603	17	▲	2450	290	2130																															
MARBLE CONCRETE PAD (SHEET 28)																																								
	4	16	8840	MP1600	STR																																			
	16	16	840	MP1601	STR																																			
	62	16	150	MP1602	STR																																			

~ NOTES ~

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



BAR SIZE	NO. OF BARS	NOMINAL DIMENSION ROUND SECTION DIAMETER (mm)	CROSS-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

PROJECT NAME: PROCTOR
 PROJECT NUMBER: BHF 0155(5)S
 FILE NAME: /st1/r4/086/j088ras.xls PLOT DATE: 10/16/01
 PROJECT LEADER: G.S. ROGERS DRAWN BY: J. GILMORE
 DESIGNED BY: C. MEUNIER CHECKED BY: C. MEUNIER
 REINFORCING STEEL SCHEDULE SHEET SHEET 33 OF 59

NOTE:
 IF ANY OTHER EXISTING SIGNS NEED TO BE MOVED OR COVERED DURING CONSTRUCTION, THE RESIDENT ENGINEER WILL DETERMINE WHICH SIGNS NEED TO BE RELOCATED AND/OR REPLACED BY THE CONTRACTOR. SEE GENERAL NOTE 17 ON SHEET 21.

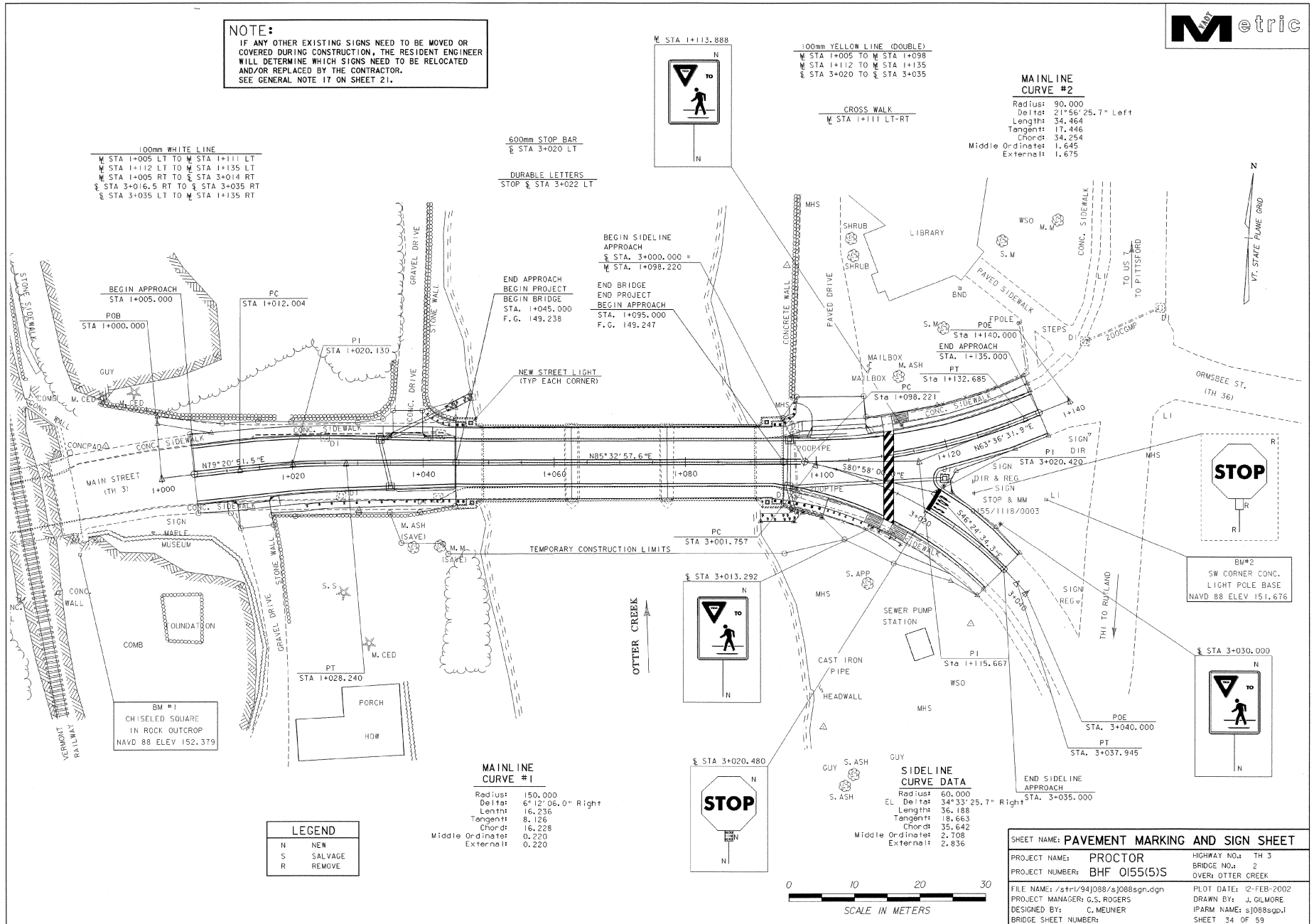
100mm WHITE LINE
 M STA 1+005 LT TO M STA 1+111 LT
 W STA 1+112 LT TO W STA 1+135 LT
 M STA 1+005 RT TO E STA 3+014 RT
 E STA 3+016.5 RT TO E STA 3+035 RT
 E STA 3+035 LT TO M STA 1+135 RT

600mm STOP BAR
 E STA 3+020 LT

DURABLE LETTERS
 STOP E STA 3+022 LT

100mm YELLOW LINE (DOUBLE)
 M STA 1+005 TO M STA 1+098
 M STA 1+112 TO M STA 1+135
 E STA 3+020 TO E STA 3+035

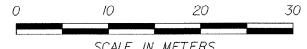
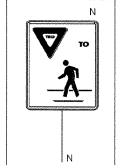
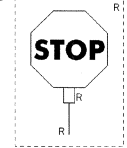
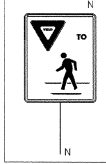
MAINLINE CURVE #2
 Radius: 90.000
 Delta: 21°56'25.7" Left
 Length: 34.464
 Tangent: 17.446
 Chord: 34.254
 Middle Ordinates: 1.645
 External: 1.675



BM #1
 CHISELED SQUARE
 IN ROCK OUTCROP
 NAVD 88 ELEV 152.379

LEGEND	
N	NEW
S	SALVAGE
R	REMOVE

MAINLINE CURVE #1
 Radius: 150.000
 Delta: 6°12'06.0" Right
 Length: 16.236
 Tangent: 8.126
 Chord: 16.228
 Middle Ordinate: 0.220
 External: 0.220



SHEET NAME: PAVEMENT MARKING AND SIGN SHEET		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(S)	BRIDGE NO.: 2	
	OVER: OTTER CREEK	
FILE NAME: /s/r/1/94j088/sj088sgn.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088sgp.i	
BRIDGE SHEET NUMBER:	SHEET 34 OF 59	

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

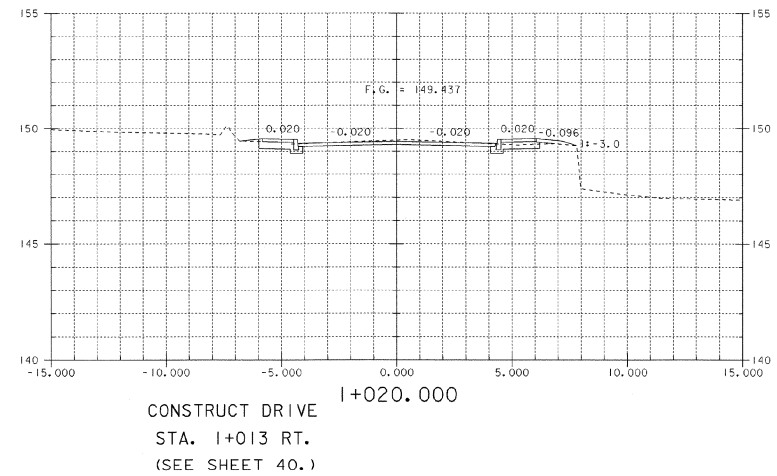
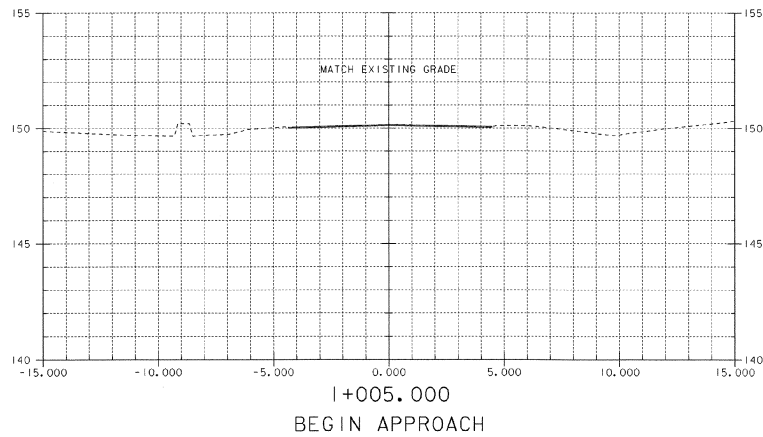
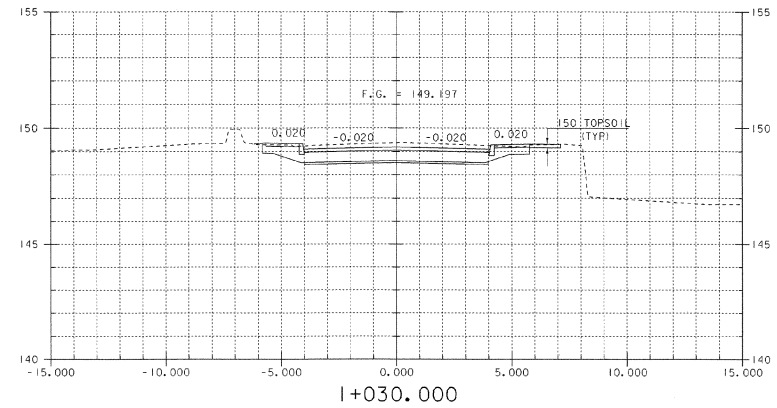
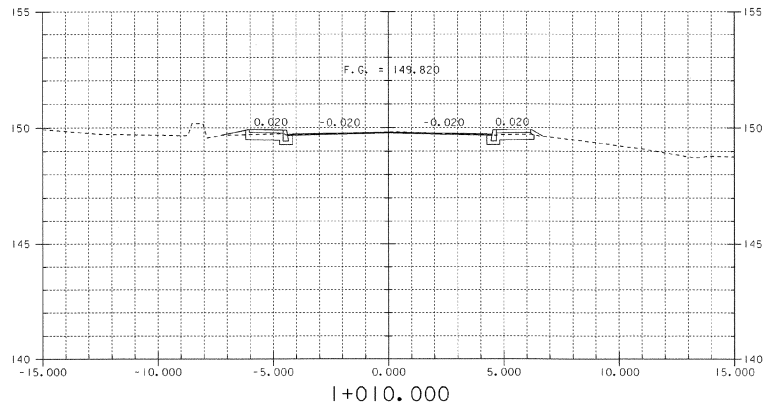


KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST. POST SALVAGED	NO. OF POSTS	NEW SIGN POSTS														REMARKS	SIGN DETAIL								
		EA	WIDTH (mm)	HEIGHT (mm)	"A"	"B"	SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (mm)			TUBULAR ALUMINUM Ø (mm)			TUBULAR STEEL Ø (mm)					W-SHAPE STEEL				DETAIL ON SHEET NUMBER	STD. SHEET NUMBER			
											1.7	kg/m	3.0	4.5	3.4	kg/m	3.9	5.0	75	100	100 MOD	FOUN-DATION	75		89	100	125	FTG. SIZE			WEIGHT	POST SIZE	
																												600 mm					750 mm
OPTION ITEMS																																	
M STA 1+113.888 LT		I	600	750	0.45				I		4.267																	VR-004A	E-146M				
E STA 3+013.292 RT		I	600	750	0.45				I		4.267																	VR-004A	E-146M				
E STA 3+020.480 LT		I	750	750	0.56				I		4.267																	R1-1	E-143M				
		I	150	200	0.03																								E-138M				
S STA 3+030.000 LT		I	600	750	0.45				I		4.267																	VR-004A	E-146M				

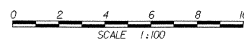
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."

TOTALS	m ²	m ²	EA.	m ²	m	m	m	m	m	EA.	kg	kg	kg	kg	kg	kg	kg	EA.	EA.	kg
	1.94	1.82									12	17.07								

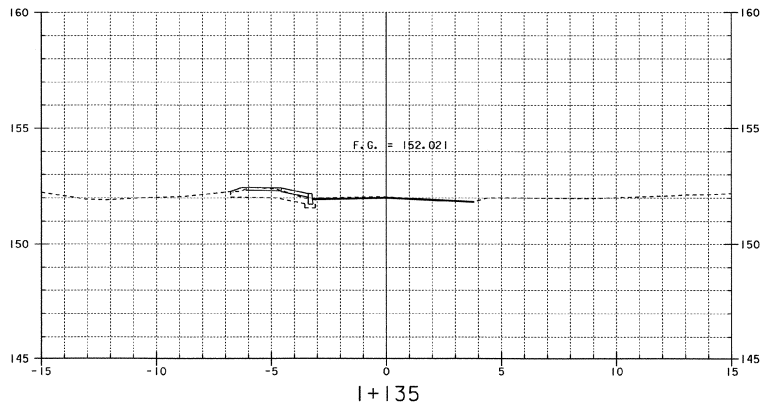
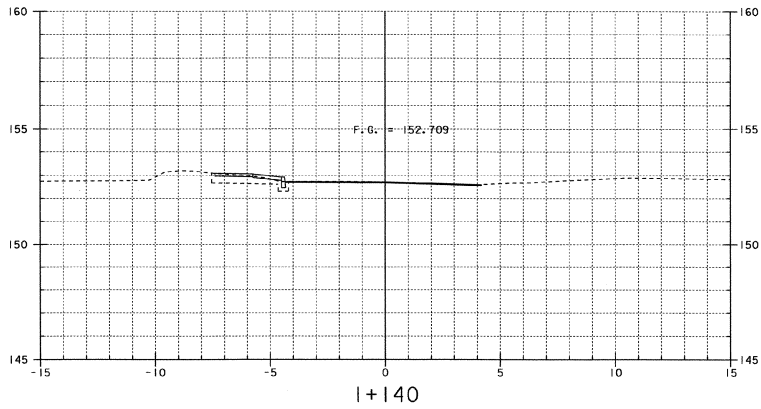
SHEET NAME: SIGN SUMMARY SHEET			
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	BRIDGE NO.: 2	OVER: OTTER CREEK
PROJECT NUMBER: BHF 0155(5)S	FILE NAME: /s1/94j088/sj088sgn.dgn	PLOT DATE: 12-FEB-2002	DRAWN BY: J. GILMORE
	PROJECT MANAGER: G.S. ROGERS	DESIGNED BY: C. MEUNIER	BRIDGE SHEET NUMBER:
			IPARM NAME: sj088sss.1
			SHEET 35 OF 59



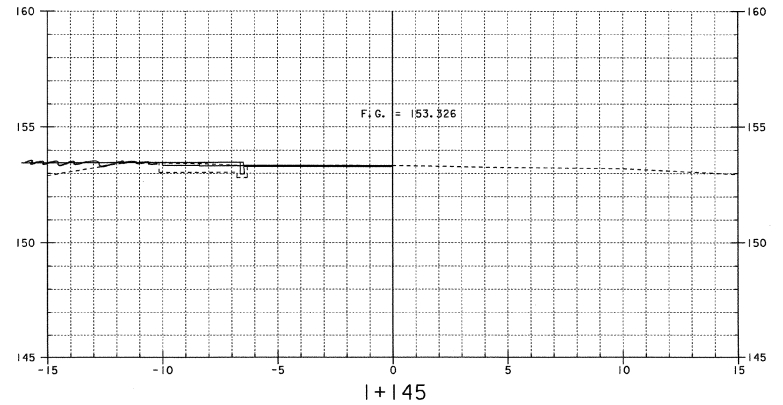
NOTE :
THE SLOPES SHALL BE GRADED TO BLEND
WITH THE EXISTING SLOPE.



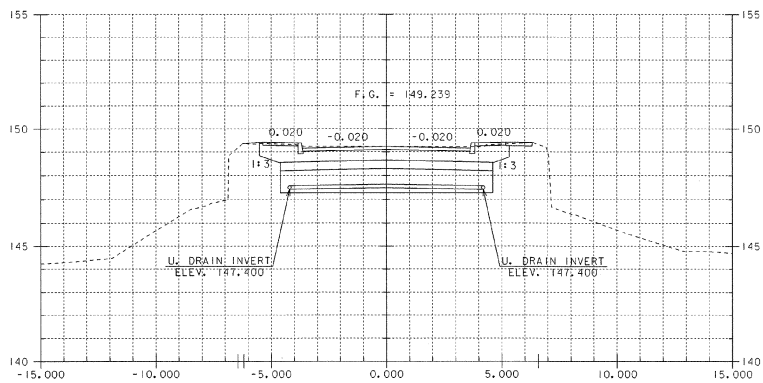
SHEET NAME: MAINLINE CROSS SECTIONS	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /s/tri/94j088/sj088xsl.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	PARM NAME: sj088xsl
BRIDGE SHEET NUMBER:	SHEET 36 OF 59



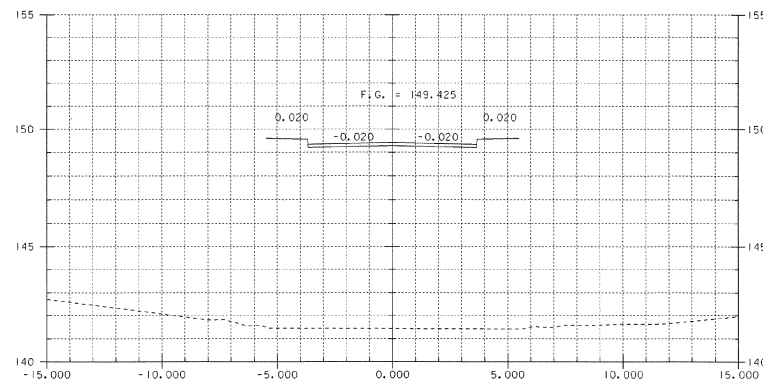
END OF PROJECT



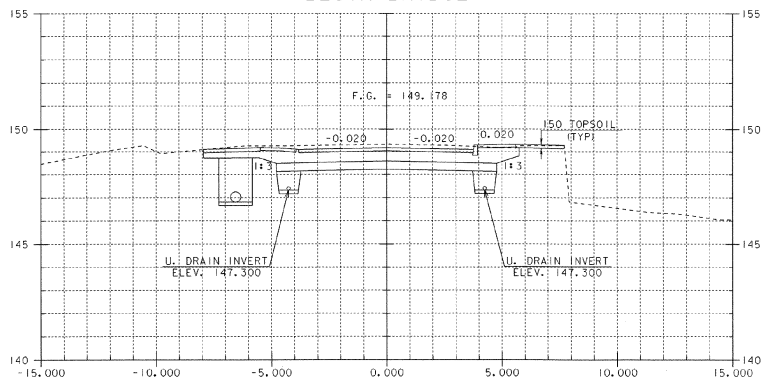
SHEET NAME: <u>MAINLINE CROSS SECTIONS</u>	
PROJECT NAME: <u>PROCTOR</u>	HIGHWAY NO.: <u>IH-3</u>
PROJECT NUMBER: <u>BHE 0155(5)S</u>	BRIDGE NO.: <u>2</u>
	OVER: <u>OTTER CREEK</u>
FILE NAME: <u>z:\tcl\941088\941088xsl.dwg</u>	PLOT DATE: <u>03-SEP-2002</u>
PROJECT MANAGER: <u>G.S. ROGERS</u>	DRAWN BY: <u>J. GILMORE</u>
DESIGNED BY: <u>C. MEUNIER</u>	IPARM NAME: <u>941088xsl</u>
BRIDGE SHEET NUMBER: <u> </u>	3/A SHEET <u>36</u> OF <u>53</u>



STA. I+045.000
BEGIN PROJECT
BEGIN BRIDGE



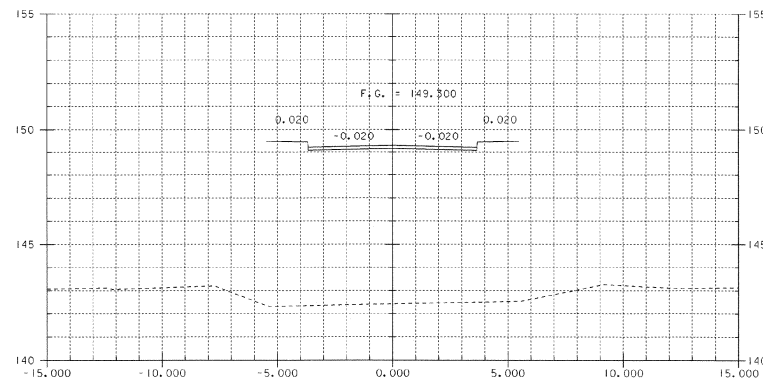
I+060.000



I+040.000

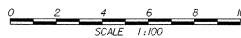
CONSTRUCT DRIVE
STA. I+038 LT.
(SEE SHEET 40.)

NEW 450 X 7000 PIPE W/ RCDI
AT STA I+033.5 LT - I+035 RT
(SEE SHEET 41)

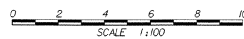
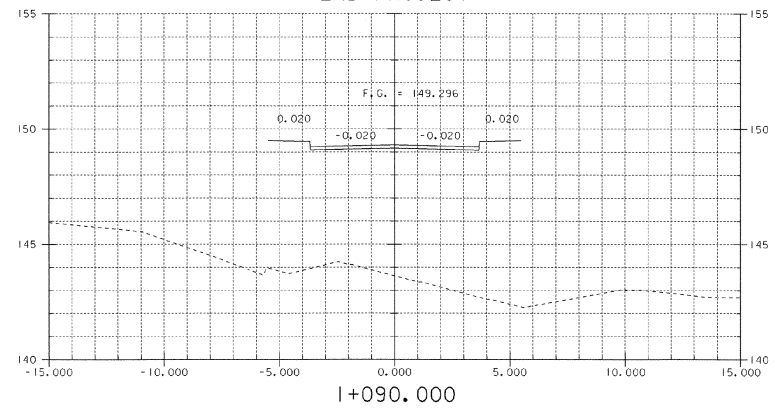
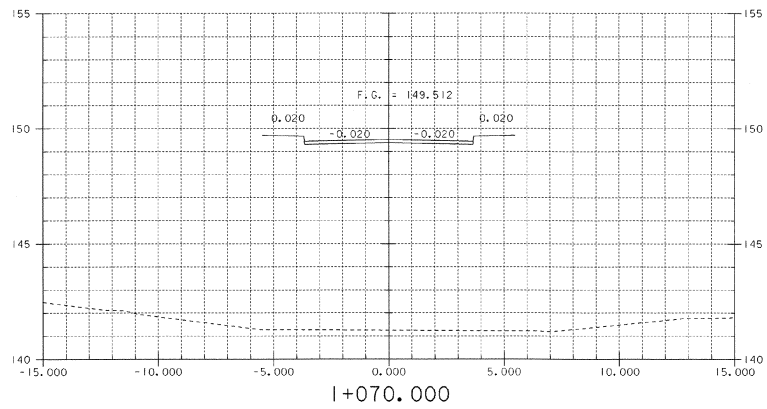
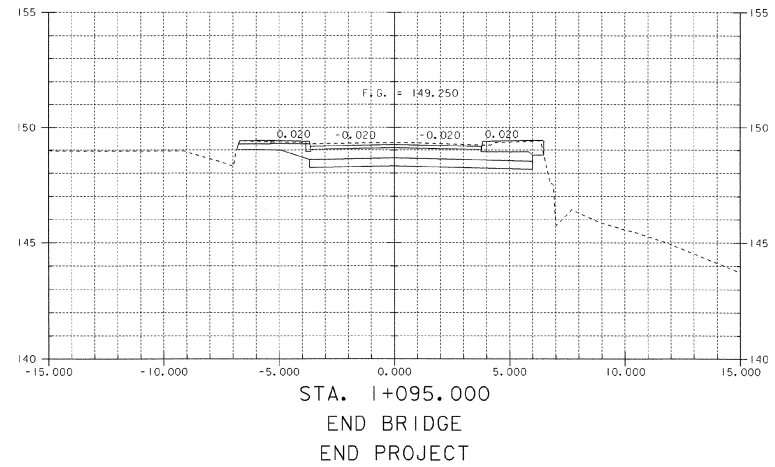
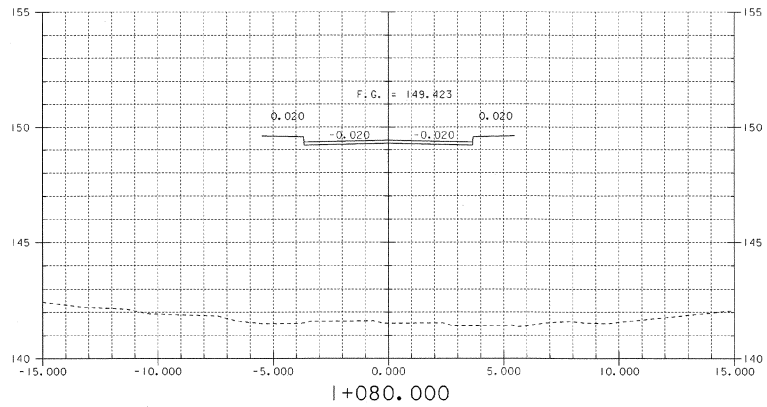


I+050.000

NOTE :
THE SLOPES SHALL BE GRADED TO BLEND
WITH THE EXISTING SLOPE.

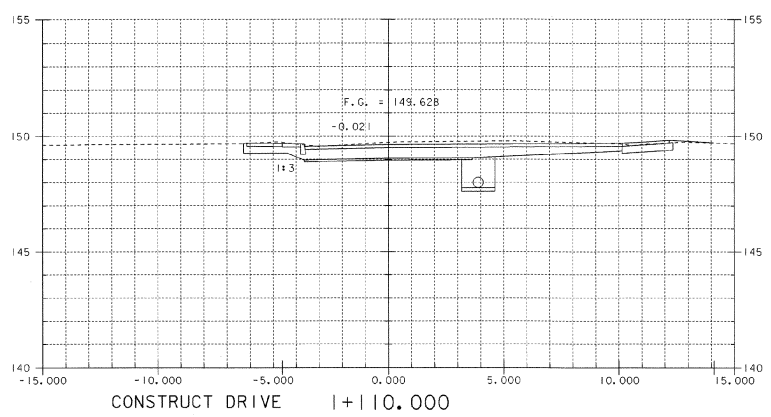


SHEET NAME: MAINLINE CROSS SECTIONS	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /sfr/1/94j088/sj088xsl.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088mx2.1
BRIDGE SHEET NUMBER:	SHEET 37 OF 59

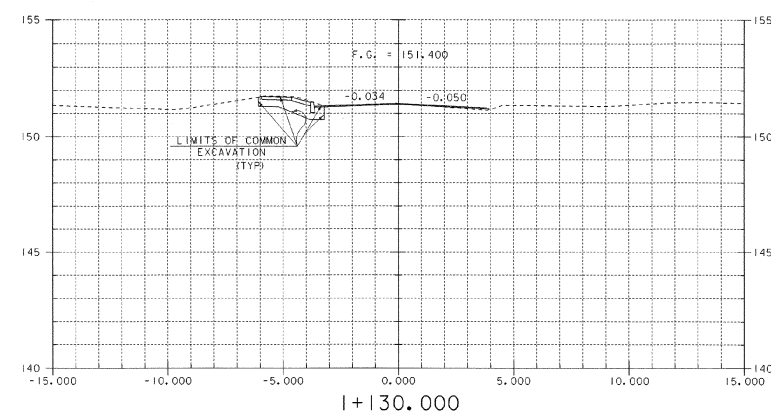


SHEET NAME: MAINLINE CROSS SECTIONS	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /s/1/941088/s1088xsl.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: C.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNER	IPARM NAME: s1088mx3.1
BRIDGE SHEET NUMBER:	SHEET 38 OF 59

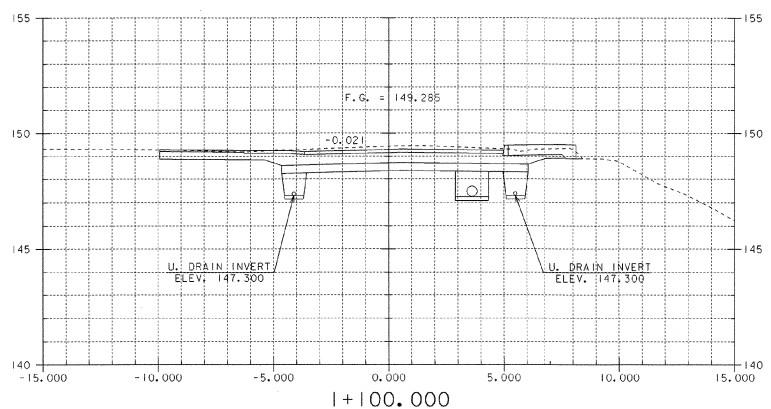
STA. 1+135
END APPROACH



CONSTRUCT DRIVE I+110.000
STA. 1+103 LT.
(SEE SHEET 40)

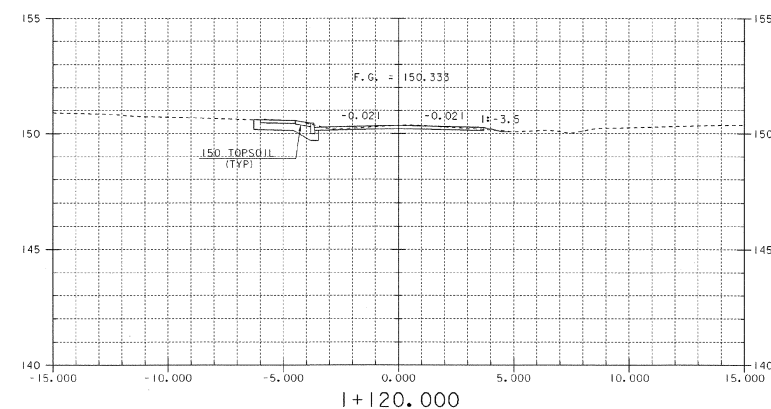


I+130.000

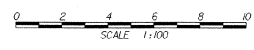


I+100.000

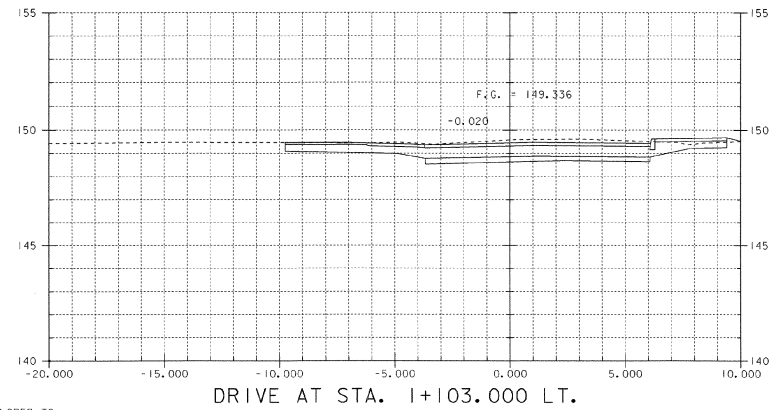
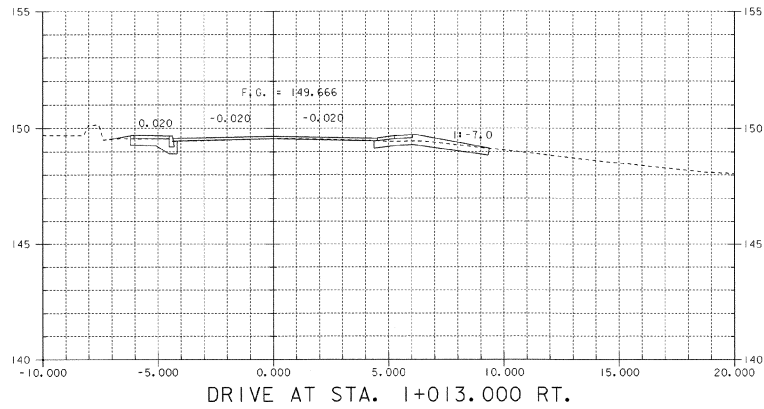
STA. 1+096 LT. TO 1+096 RT.
NEW 450 X 7000 PIPE W/ RCDI
AND TYPE D GRATE AT INLET



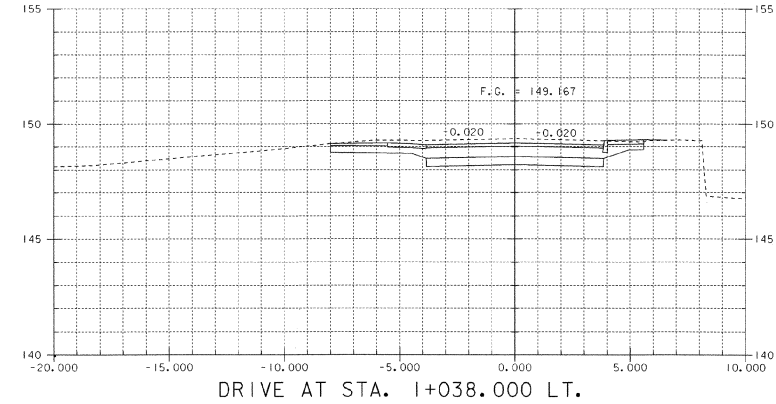
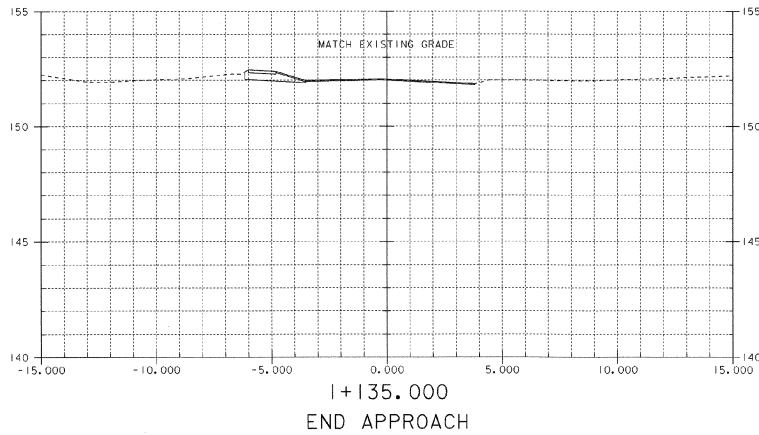
I+120.000



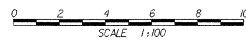
SHEET NAME: MAINLINE CROSS SECTIONS	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /s/r/1/94/088/s/088xsl.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: s/088mx4.1
BRIDGE SHEET NUMBER:	SHEET 39 OF 39



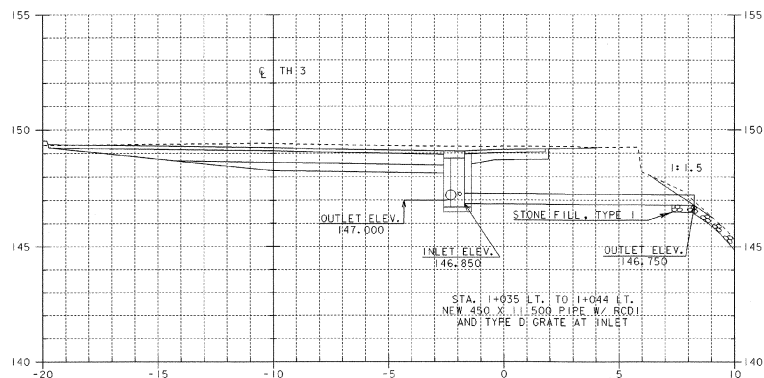
DRIVEWAYS TO BE SLOPED TO
MATCH THE EXISTING GRADE



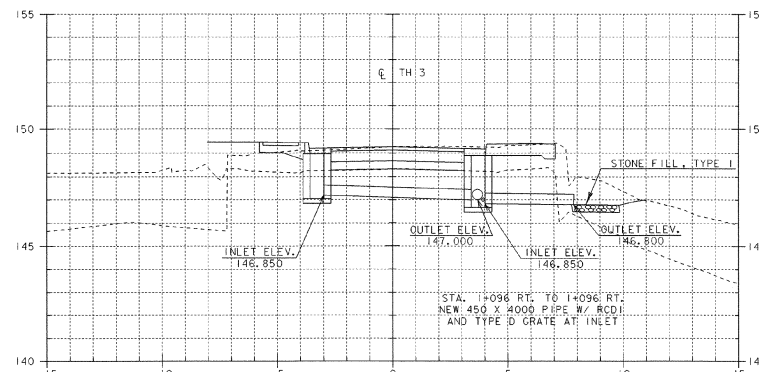
STA. 1 + 135
END CAST-IN-PLACE CONCRETE CURB, TYPE B



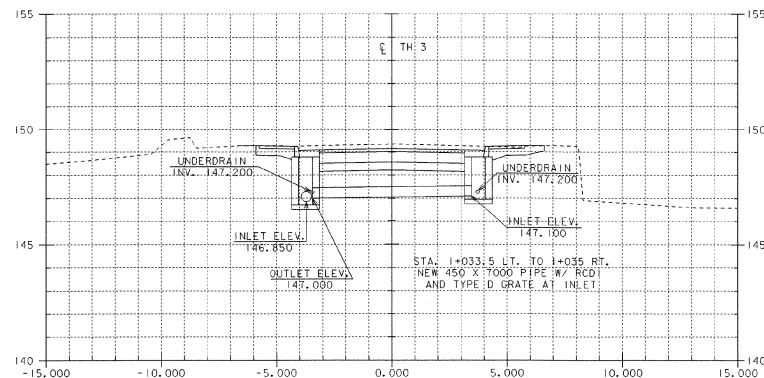
SHEET NAME: MAINLINE CROSS SECTIONS	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /s/r/1/94/088/s/088xsl.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	IFARM NAME: s/088m5.1
BRIDGE SHEET NUMBER:	SHEET 40 OF 59



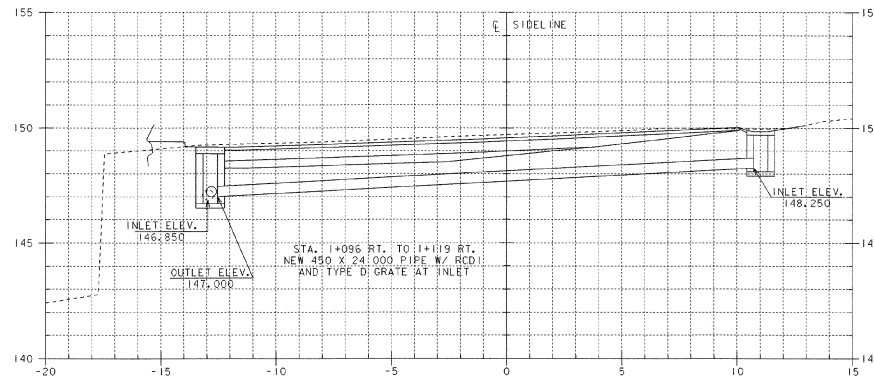
SECTION ALONG PIPE
STA. 1+033.5 LT. TO STA. 1+044 LT.



SECTION ALONG PIPE CENTERLINES
STA. 1+096 LT. TO STA. 1+096 RT.

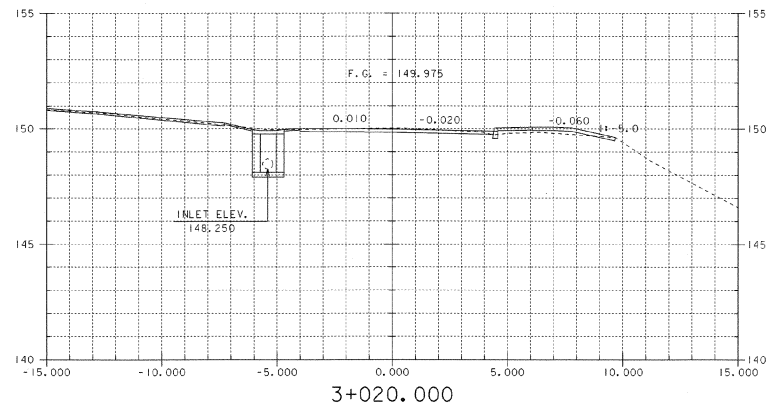
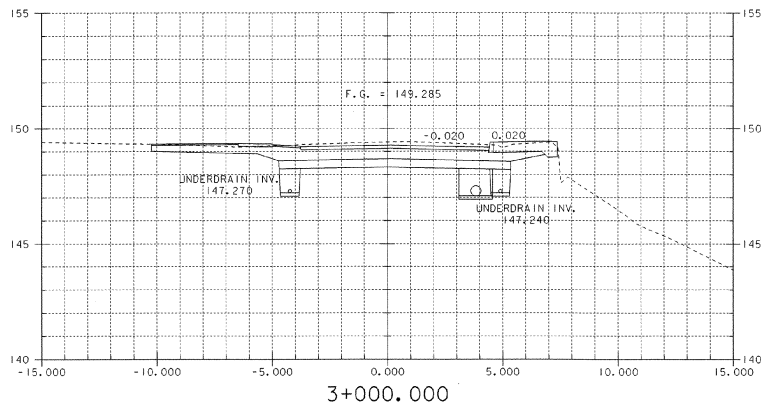
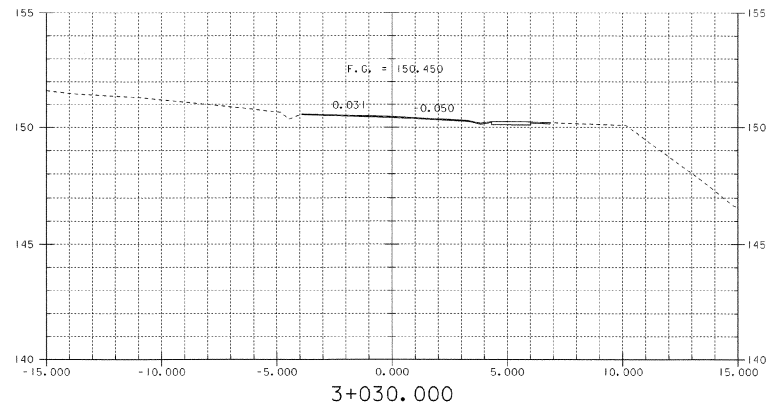
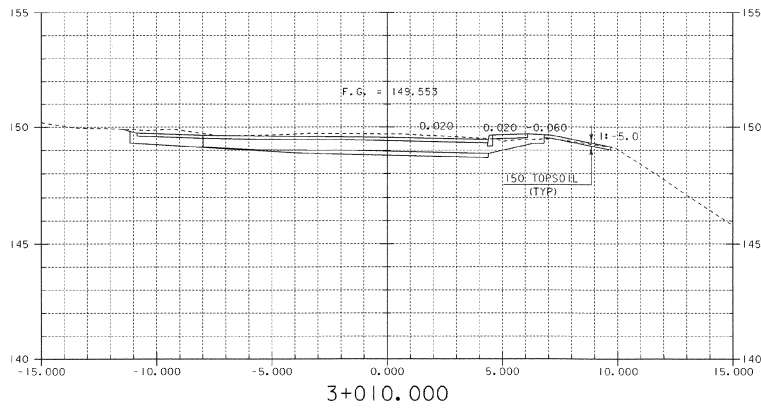


SECTION ALONG PIPE
STA. 1+033.5 LT. TO STA. 1+035 RT.

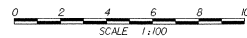
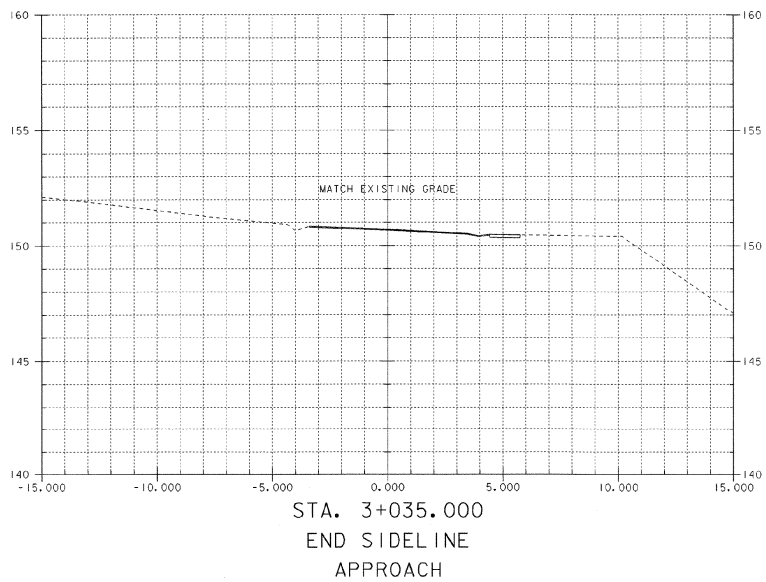
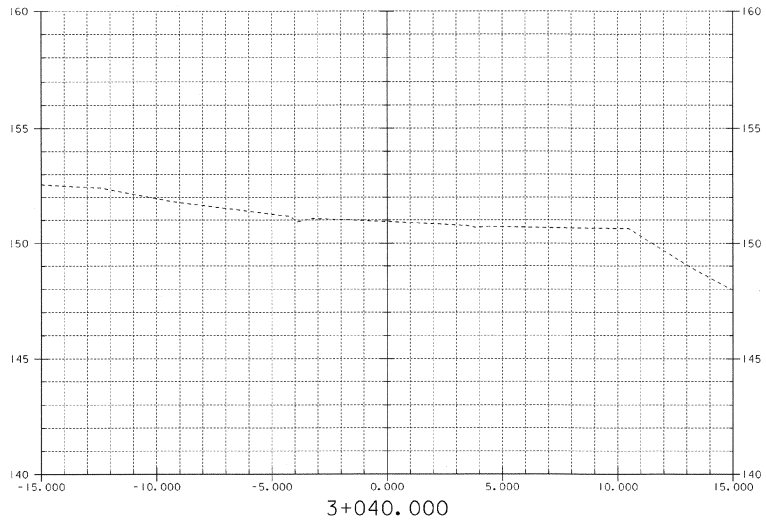


SECTION ALONG PIPE
STA. 1+096 RT. TO STA. 1+119 RT.

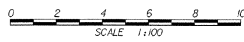
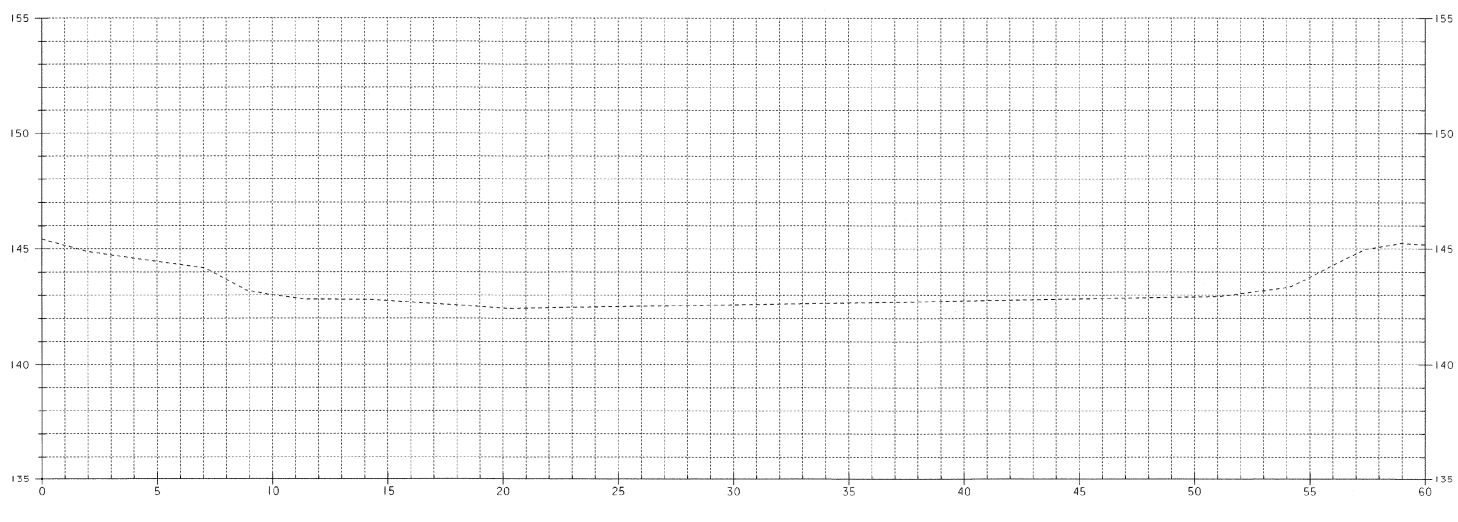
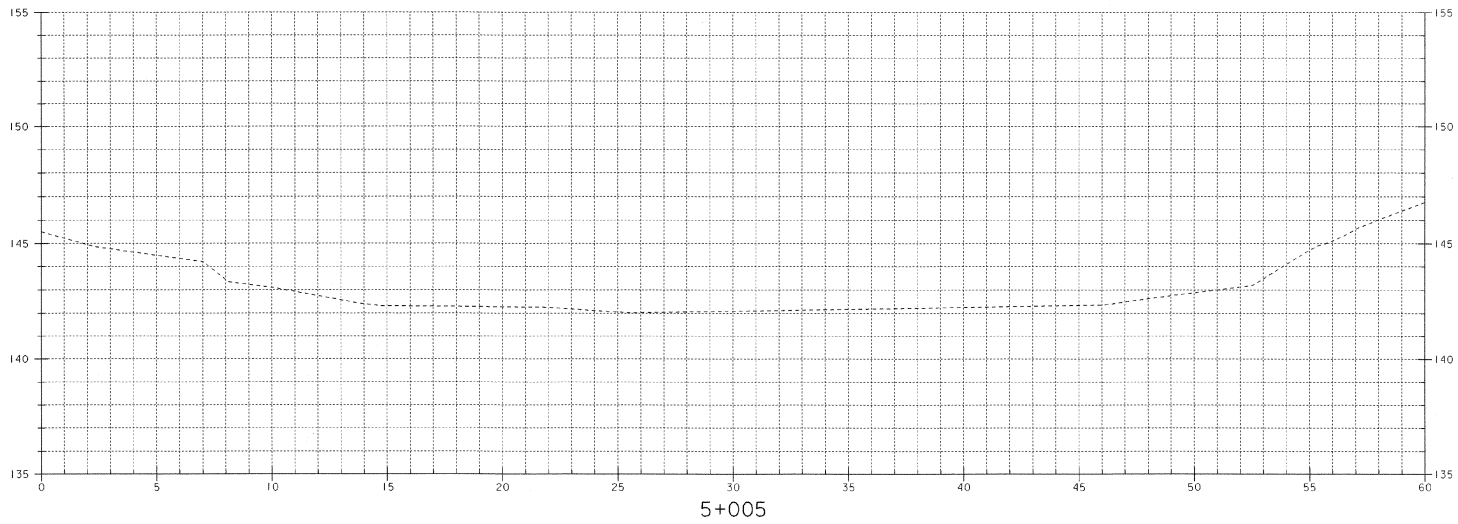
SHEET NAME: PIPE SECTIONS		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(S)	BRIDGE NO.: 2	OVER: OTTER CREEK
FILE NAME: /str1/94/088/sj088xsl.dgn	PLT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088m6.1	
BRIDGE SHEET NUMBER:	SHEET 41 OF 59	



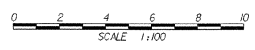
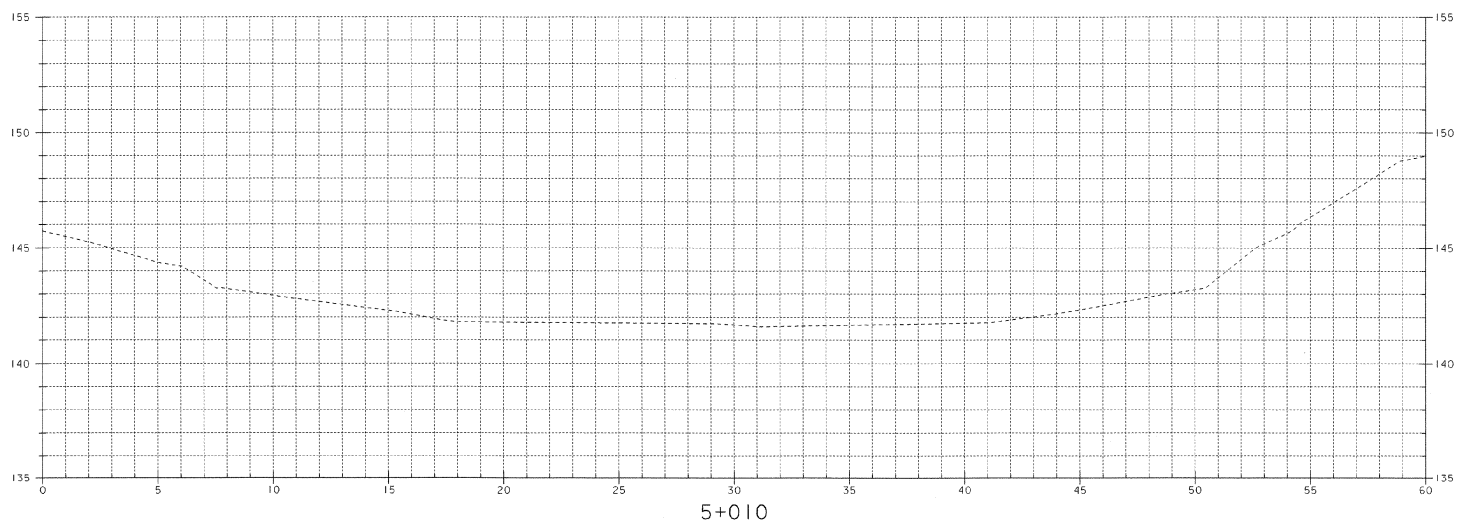
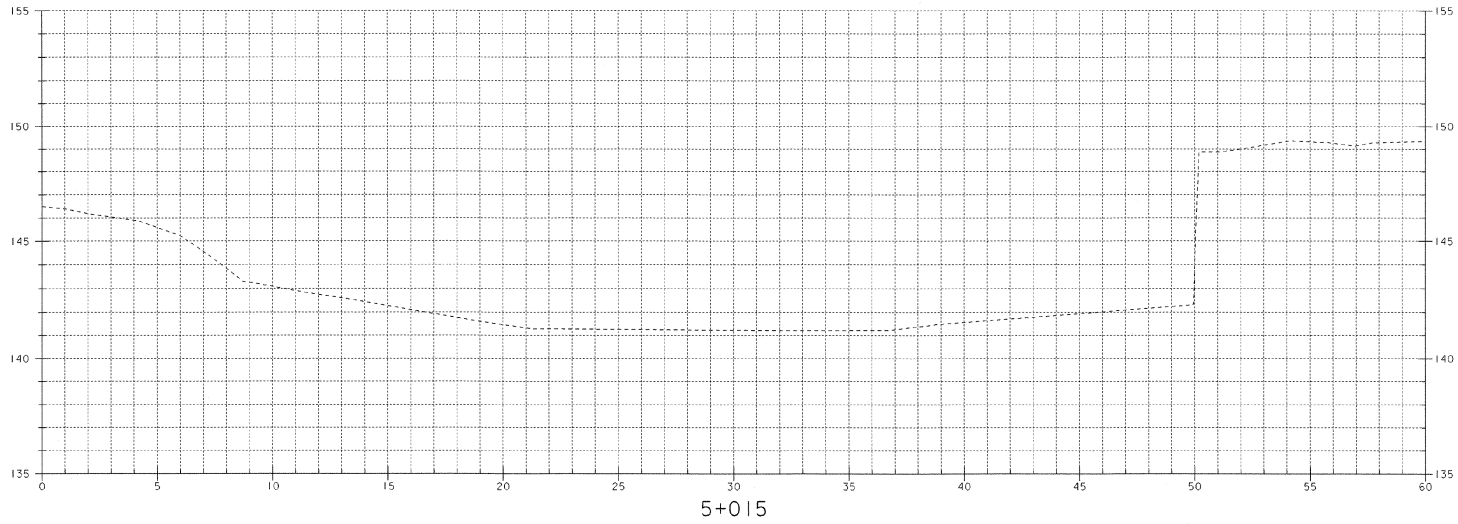
SHEET NAME: SIDELINE CROSS SECTIONS	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /str1/94j088/sj088xsl.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088xsl
BRIDGE SHEET NUMBER:	SHEET 42 OF 59



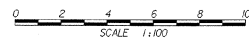
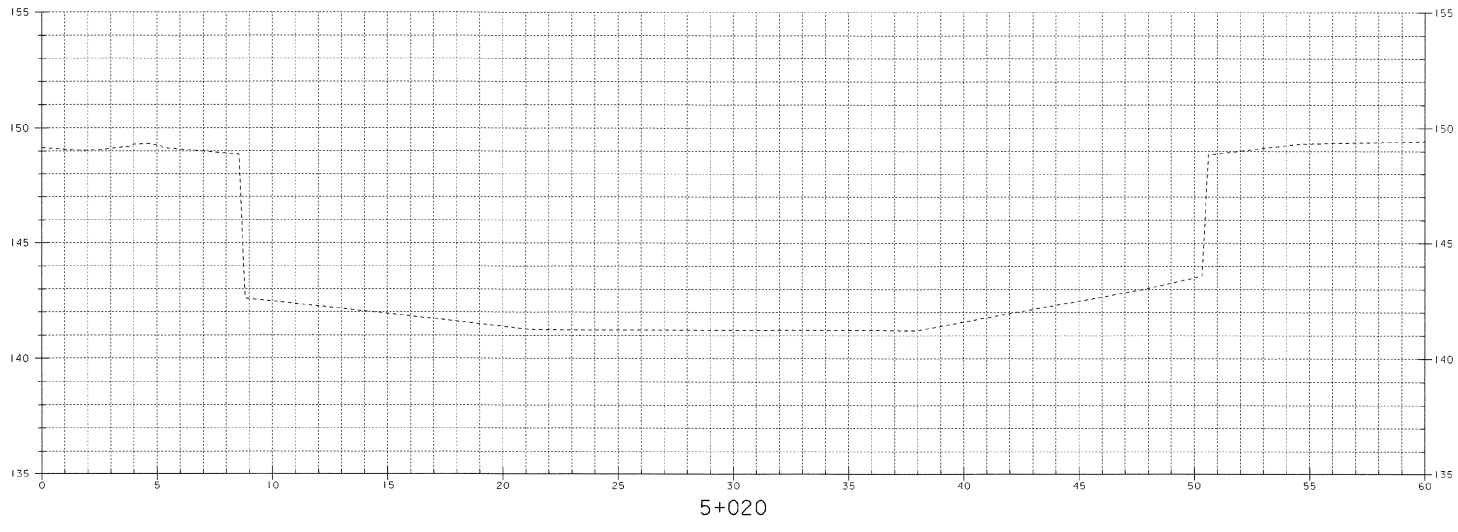
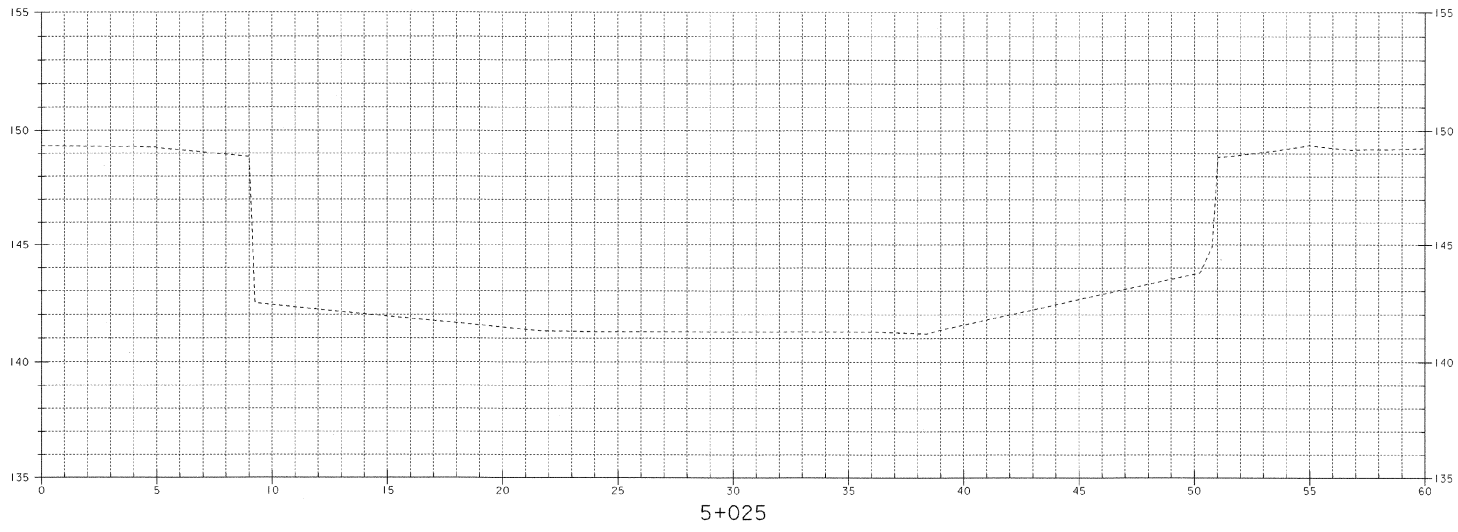
SHEET NAME: SIDELINE CROSS SECTIONS	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /s/r/1/94/088/s/088xsl.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: s/088x2.1
BRIDGE SHEET NUMBER:	SHEET 43 OF 59



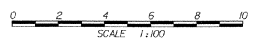
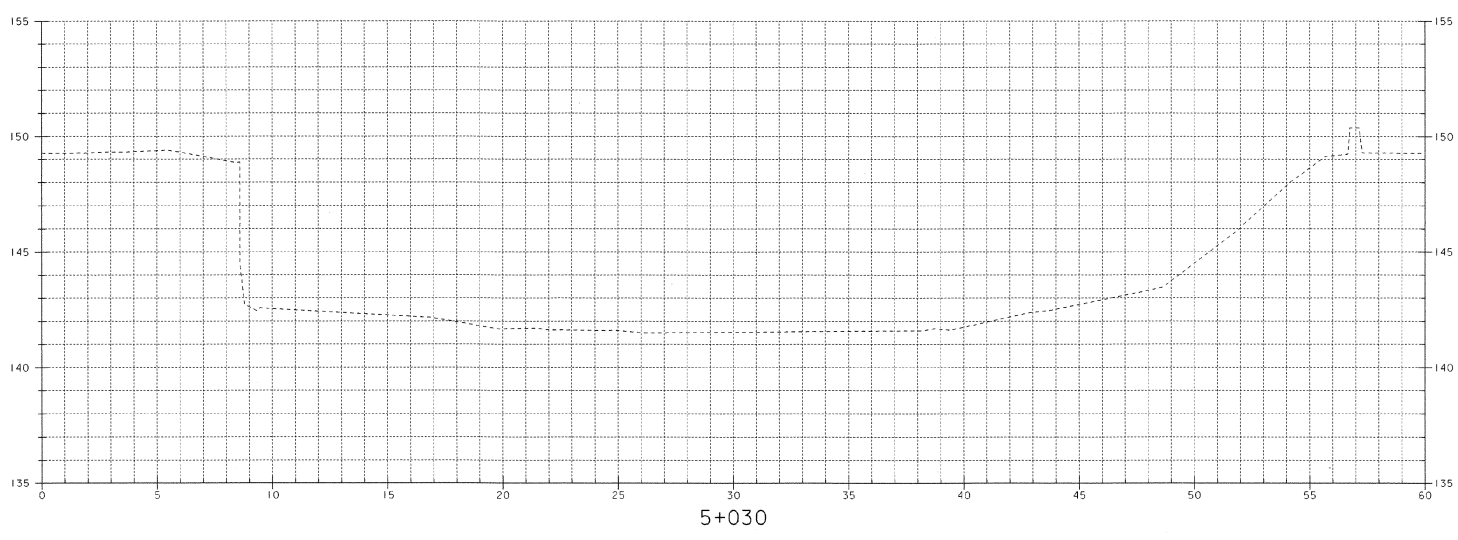
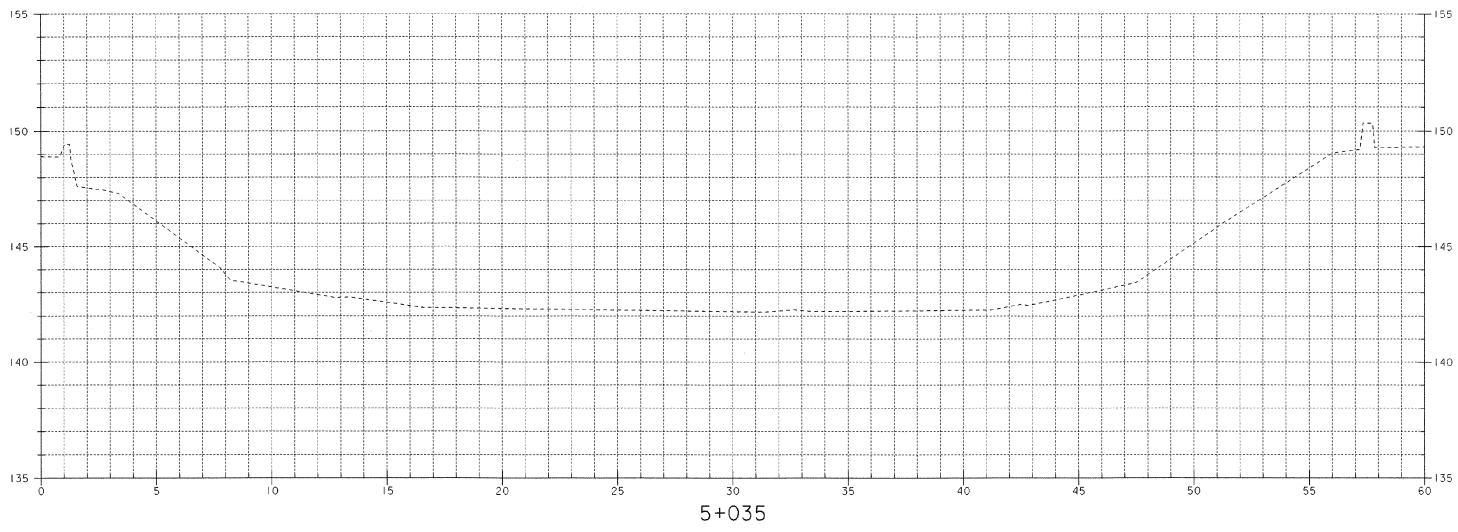
SHEET NAME: CHANNEL CROSS SECTIONS	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /s/r/1/94j088/sj088xal.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNER	PSRM NAME: sj088xal
BRIDGE SHEET NUMBER:	SHEET 44 OF 59



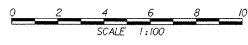
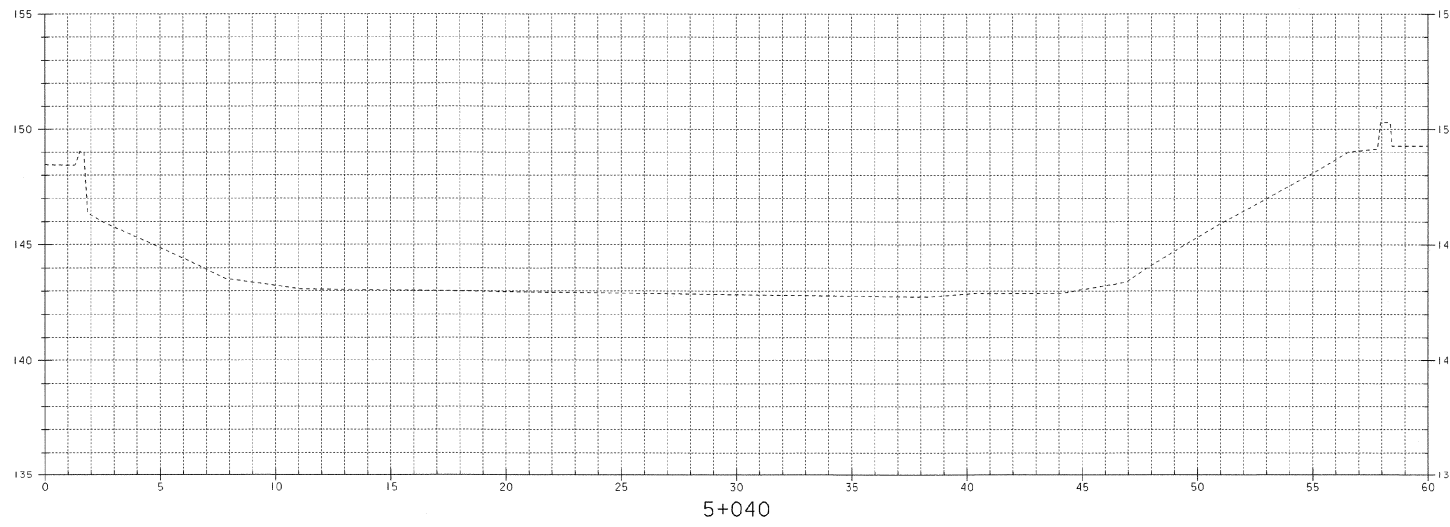
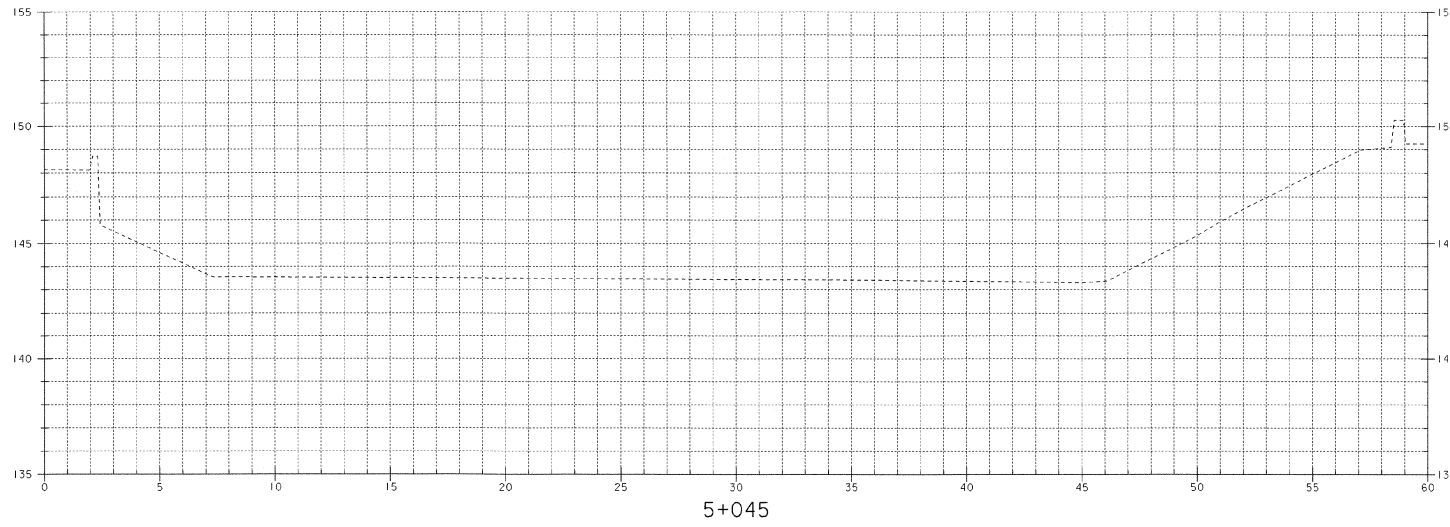
SHEET NAME: CHANNEL CROSS SECTIONS	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /s/r1/94j088/sj088x.sldgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088x2.1
BRIDGE SHEET NUMBER:	SHEET 45 OF 59



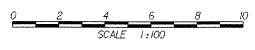
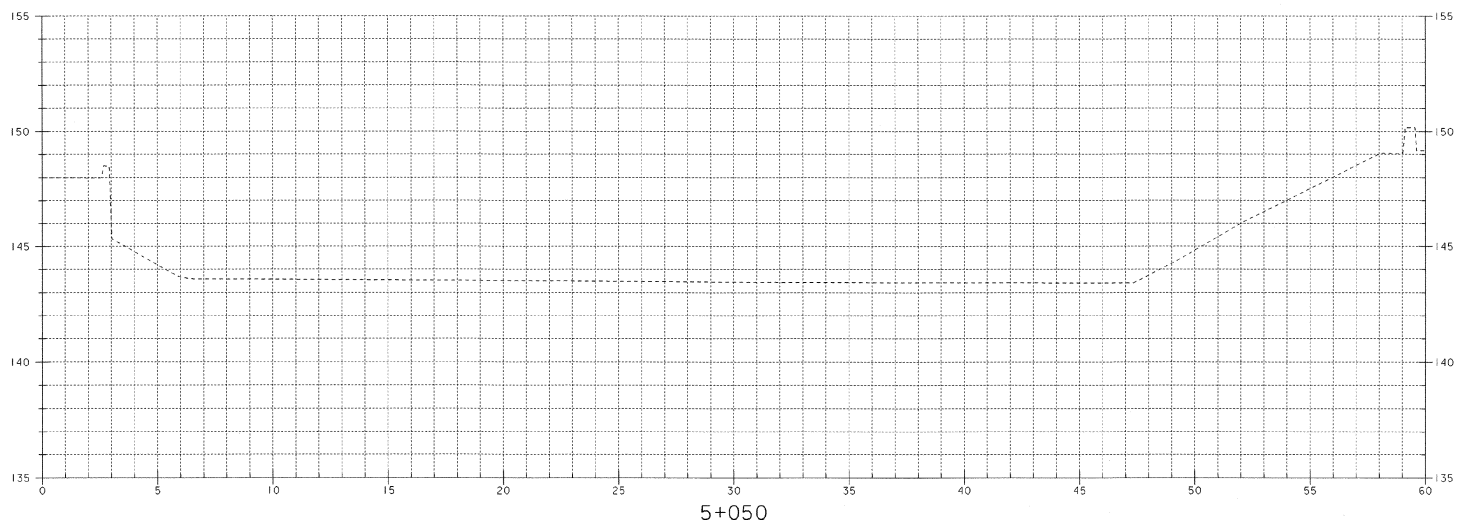
SHEET NAME: CHANNEL CROSS SECTIONS	
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: /s/tr/94j088/sj088xsl.dgn	PLOT DATE: 12-FEB-2002
PROJECT MANAGER: C.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088cx3j
BRIDGE SHEET NUMBER:	SHEET 46 OF 59



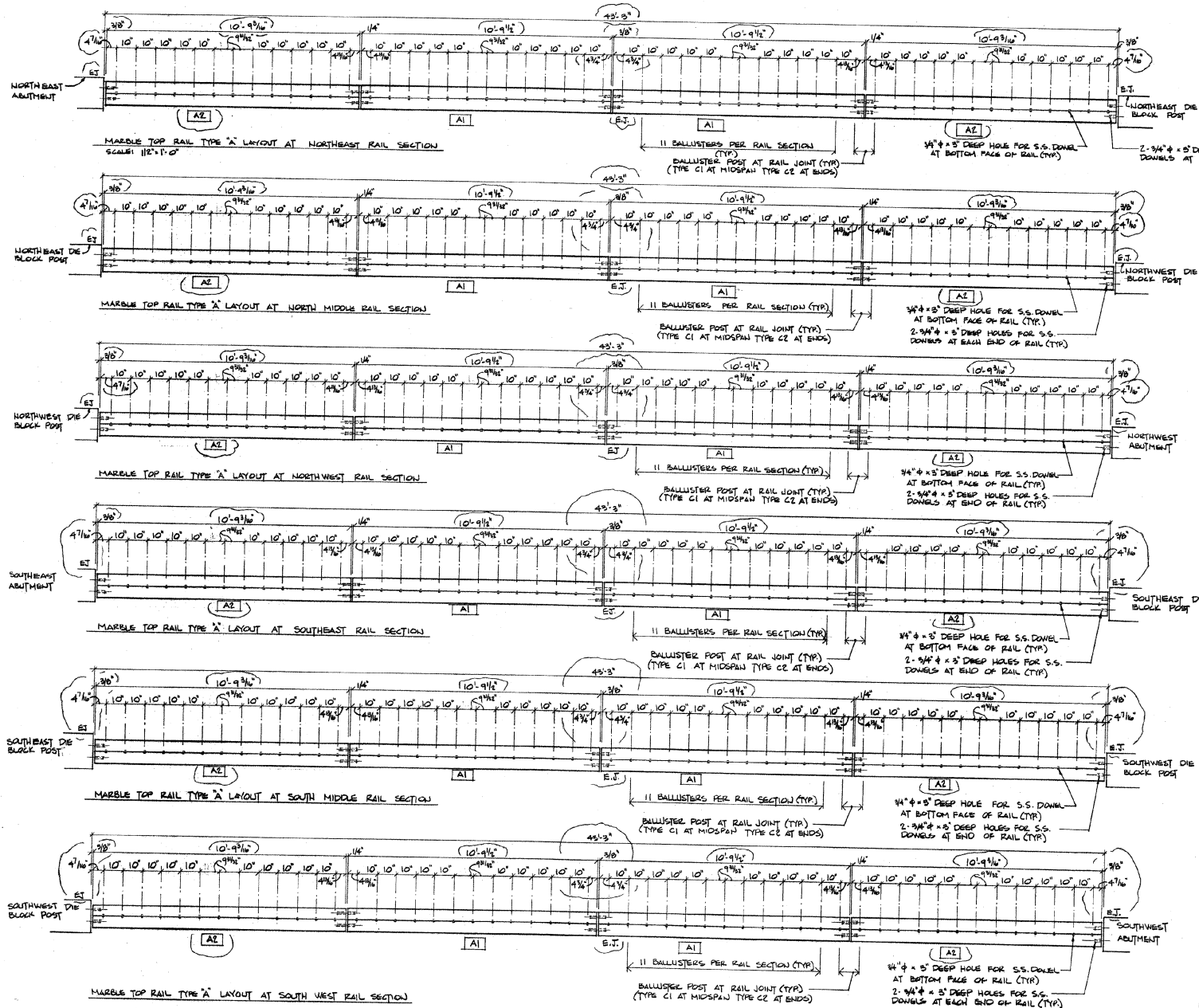
SHEET NAME: CHANNEL CROSS SECTIONS		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(S)	BRIDGE NO.: 2	
	OVER: OTTER CREEK	
FILE NAME: /str/94j088/sj088.xsl.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088-x4.1	
BRIDGE SHEET NUMBER:	SHEET 47 OF 59	



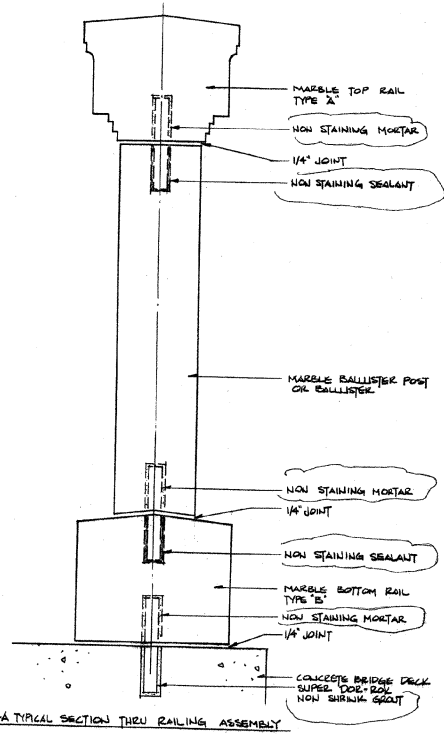
SHEET NAME: CHANNEL CROSS SECTIONS		
PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2	
	OVER: OTTER CREEK	
FILE NAME: /s/tri/94j088/sj088xsl.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: C.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj088x5.1	
BRIDGE SHEET NUMBER:	SHEET 48 OF 59	



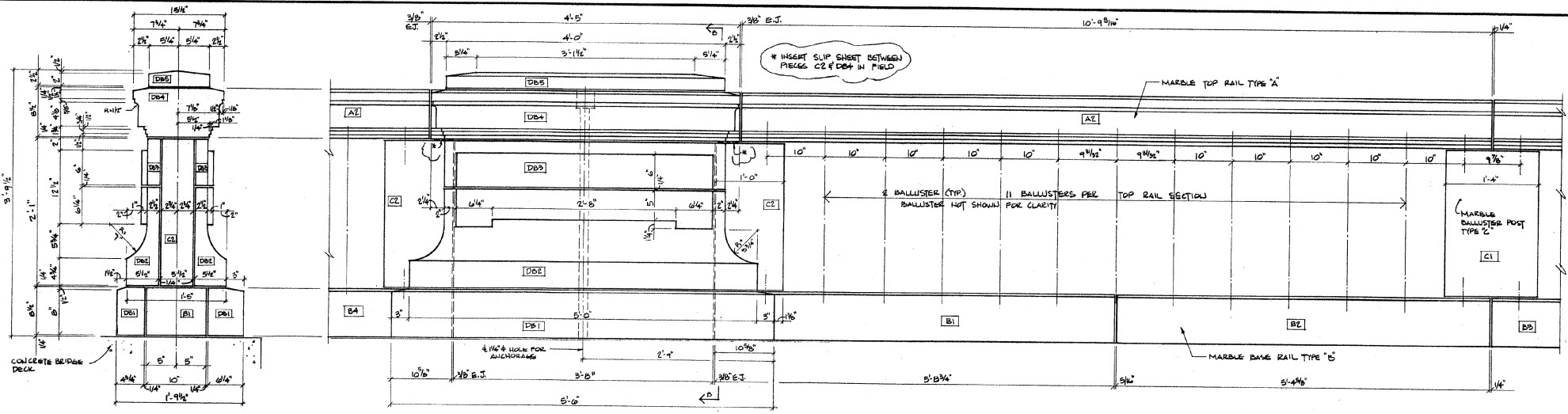
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PROJECT NAME: PROCTOR	HIGHWAY NO.: TH 3	
PROJECT NUMBER: BHF 0155(5)S	BRIDGE NO.: 2	
	OVER: OTTER CREEK	
FILE NAME: /s:/r1/94j088/sj088xsl.dgn	PLOT DATE: 12-FEB-2002	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MELNER	IPARM NAME: sj088x6.i	
BRIDGE SHEET NUMBER:	SHEET 49 OF 59	



NOTE: THE ORIENTATION OF THE VEINING OF THE STONE FOR THE TOP AND BOTTOM RAIL SHOULD RUN ON A HORIZONTAL PLANE AS PER SPECIFICATION SECTION 2.01A PAGE 5

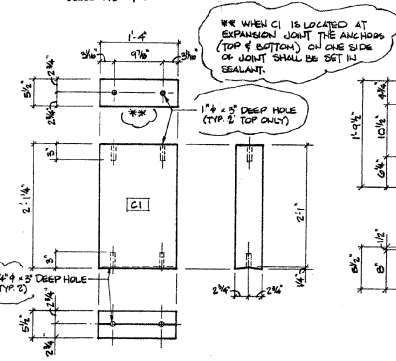


PRINT RECORD			GRANITE IMPORTERS INC. P.O. BOX 712 16 SOUTH VINE STREET BARRE, VERMONT (802) 476-2612 FAX 802-476-7242 <small>We accept no responsibility as to measurements or details affecting any work but our own.</small> <small>This drawing represents our interpretation of the architect's site and specifications and our contract requirements on this project. Granite will not be introduced for fabrication until we have been notified in writing by our customers that our drawings have been approved for fabrication.</small> <small>Granite fabricated in accordance with approved shop drawings that does not fit or conditions will be removed and replaced at customer expense, and only after receipt of purchase order to fabricate the stone.</small>
NO.	SENT	DATE	
			PROJECT THE PROCTOR MARBLE ARCH BRIDGES LOCATION PROCTOR, VT. ARCHITECT VERMONT AGENCY OF TRANSPORTATION
PROCTOR: BHF 0155 (5) S			REVISIONS 4-16-01 A 0-6-01
FOR INFORMATIONAL PURPOSES ONLY SHEET 21 OF 25 SHEET			DRAWING NUMBER 5-2

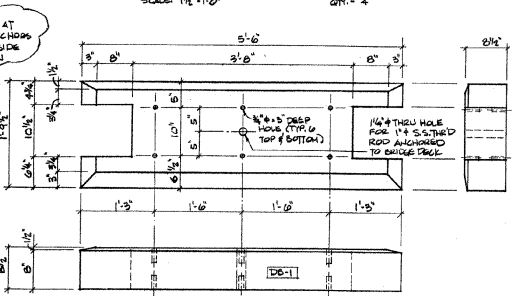


SECTION B-B THRU DIE BLOCK POST
SCALE: 1/2" = 1'-0"

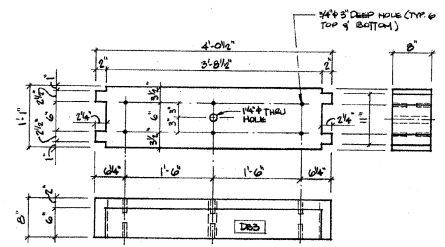
TYPICAL ELEVATION AT DIE BLOCK POST
SCALE: 1/2" = 1'-0"



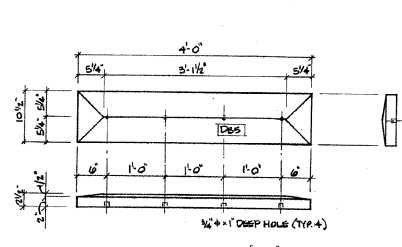
MARBLE BALLUSTER POST TYPE C1
SCALE: 1" = 1'-0"



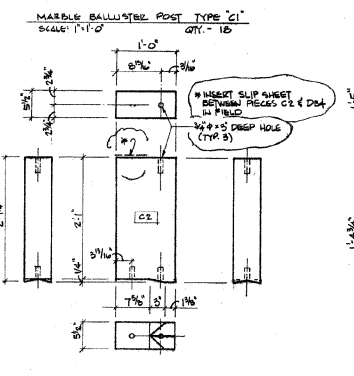
MARBLE DIE BLOCK POST PIECE DB1 LAYOUT
SCALE: 1" = 1'-0"



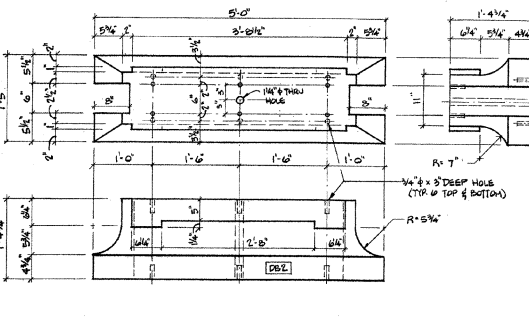
MARBLE DIE BLOCK POST PIECE DB2 LAYOUT
SCALE: 1" = 1'-0"



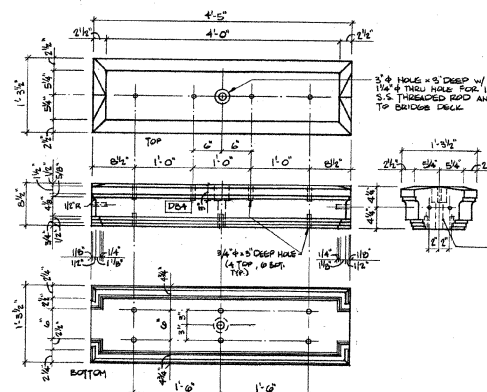
MARBLE DIE BLOCK POST PIECE DB3 LAYOUT
SCALE: 1" = 1'-0"



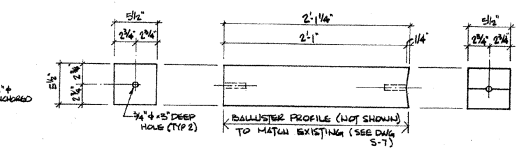
MARBLE BALLUSTER POST TYPE C2
SCALE: 1" = 1'-0"



MARBLE DIE BLOCK POST PIECE DB2 LAYOUT
SCALE: 1" = 1'-0"

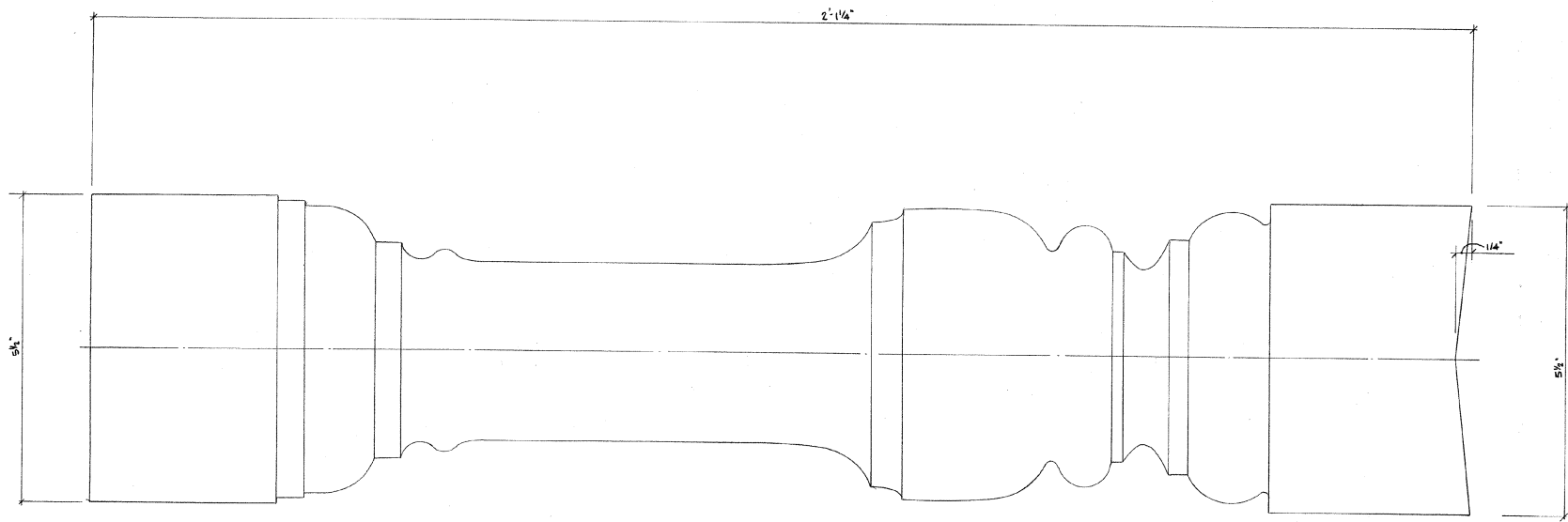


MARBLE DIE BLOCK POST PIECE DB4 LAYOUT
SCALE: 1" = 1'-0"




MARBLE BALLUSTER TYPE E TYPICAL LAYOUT
SCALE: 1" = 1'-0"

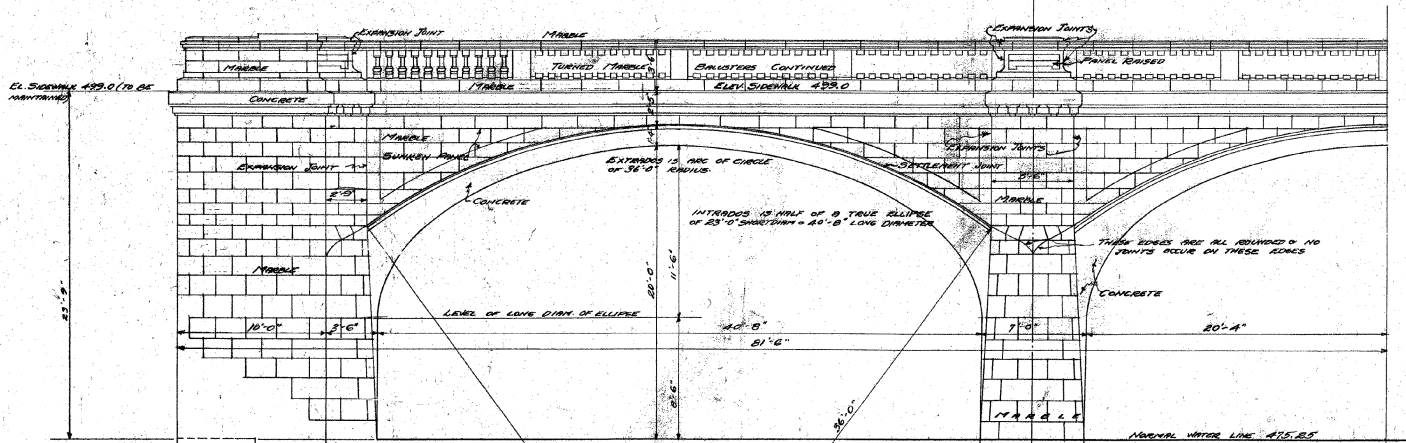
PRINT RECORD			
NO.	SENT	DATE	
			P.O. BOX 712 15 SOUTH VINE STREET MARBLE VERMONT (802) 476-5812 FAX (802) 476-7549 We assume no responsibility for the measurements or errors affecting any work not our own. This price sheet represents our interpretation of the architect's plan and specifications and our contract requirements for this project. Granite will not be responsible for fabrication errors or field measurements and only show images of material used to create the stone appearance.
PROJECT: THE PROCTOR MARBLE ARCH BRIDGES LOCATION: PROCTOR, VT ARCHITECT: VERMONT AGENCY OF TRANSPORTATION			REVISIONS: 1 4-16-01 2 8-6-01 3 9-24-01
PROCTOR: BHF 0155 (5) S FOR INFORMATIONAL PURPOSES ONLY SHEET 52 OF 69 SHEET			DRAWING NUMBER: 5-3



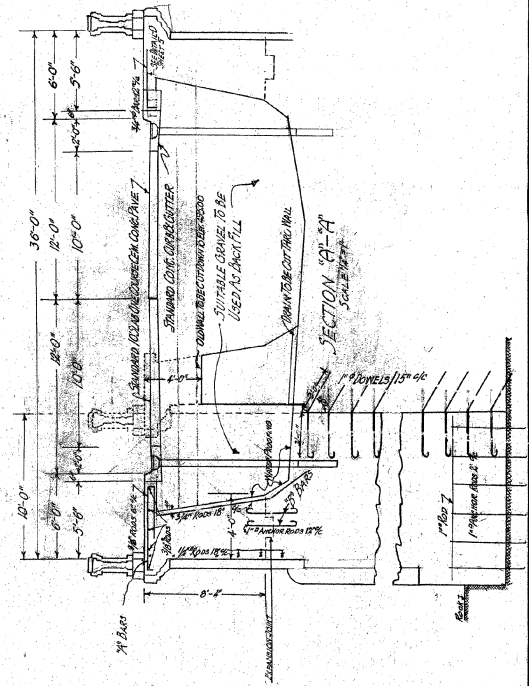
FULL SIZE LAYOUT OF EXISTING BALUSTER TYPE "B"

NOTE: THIS BALUSTER WAS CREATED FROM AN EXISTING SAMPLE

PRINT RECORD			 GRANITE IMPORTERS INC. <small>P.O. BOX 712 16 SOUTH VINE STREET BARRE, VERMONT 05217-0712 FAX 802-476-7349</small>
NO.	SENT	DATE	
			<small>We accept no responsibility as to measurements or specifications of work not approved for work not our own. Granite Importers Inc. reserves the right to change specifications and our contract requirements for any project. Granite will not be responsible for specifications unless they have been written and approved by Granite Importers Inc. Granite Importers Inc. reserves the right to change specifications and our contract requirements for any project. Granite will not be responsible for specifications unless they have been written and approved by Granite Importers Inc.</small>
PROJECT	THE PROCTOR MARBLE ARCH BRIDGE		<small>Revisions by our customers that our drawings have been approved for construction. Granite Importers Inc. reserves the right to change specifications and our contract requirements for any project. Granite will not be responsible for specifications unless they have been written and approved by Granite Importers Inc.</small>
LOCATION	PROCTOR VT.		
ARCHITECT	VERMONT AGENCY OF TRANSPORTATION		<small>REVISIONS</small> Δ 6/01
PROCTOR: BHF 0155 (5) S.			<small>DRAWING NUMBER</small> S-7
<small>FOR INFORMATIONAL PURPOSES ONLY</small> SHEET 56 OF 59 SHEET			



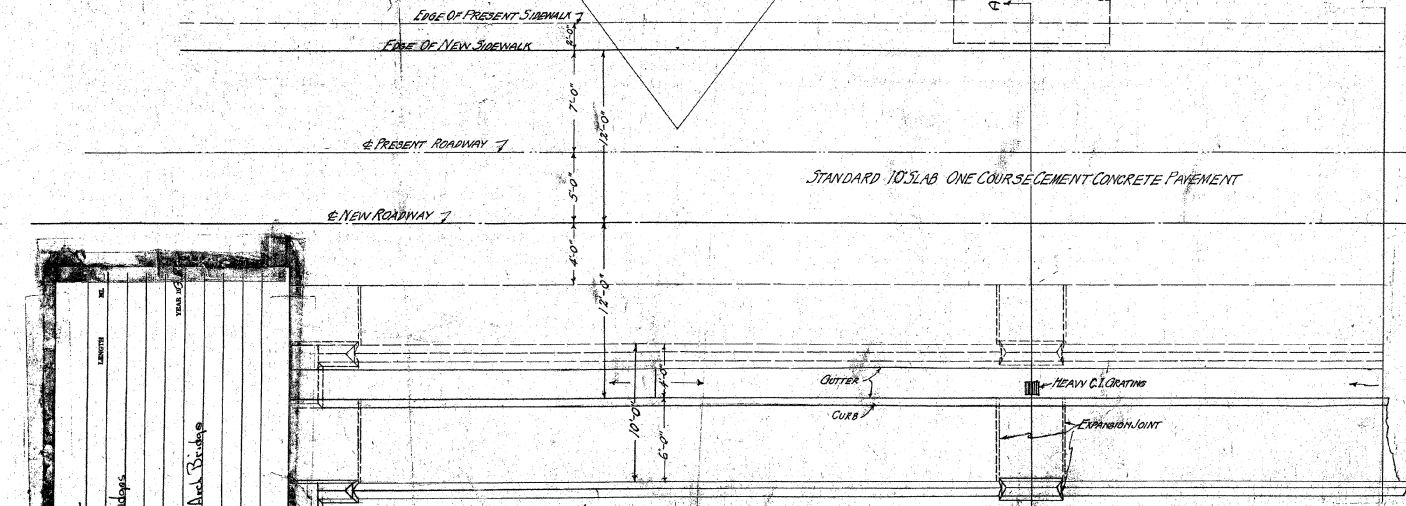
ELEVATION EAST HALF NORTH SIDE
SCALE 1/4"=1'



SECTION 'A-A'
SCALE 1/4"=1'

- SHEET 1 - PLAN SHOWING PROPOSED WIDENING
- SHEET 2 - PLAN SHOWING PROPOSED WIDENING
- SHEET 3 - SHEET 5 NO. 33
- SHEET 4 - SHEET 5 NO. 31
- SHEET 5 - DETAILS OF JOISTS & REINFORCING

PLAN SHOWING PROPOSED WIDENING
OF MARBLE ARCH BRIDGE OVER OTTER CREEK
PROCTOR VI.
SEP. 12, 1935 SCALE 1/4"=1'
S.A. # 12/1935



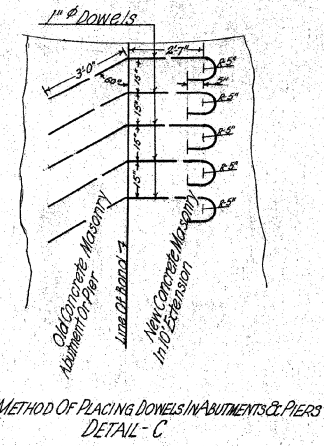
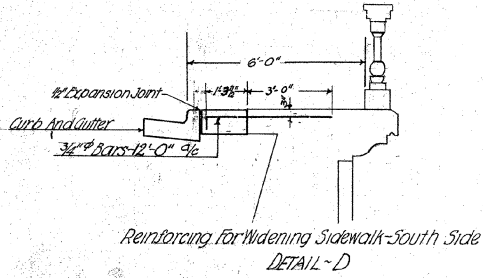
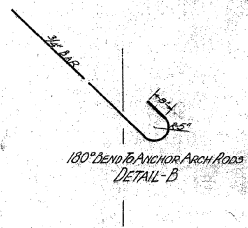
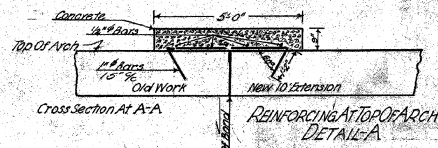
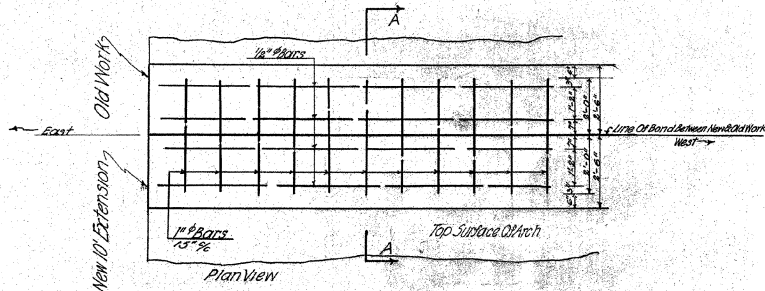
PLAN OF EAST HALF NORTH SIDE
SCALE 1/4"=1'

ESTIMATED QUANTITIES

--	--

PROCTOR BHF 0155 (5) S
REFERENCE SHEET FOR INFORMATIONAL PURPOSES ONLY
SHEET 57 OF 59 SHEET

Proctor Old Bridges	Marble Arch Bridges
------------------------	---------------------



PLAN SHOWING DETAILS OF DOWELS & REINFORCING
MARBLE ARCH BRIDGE OVER OTTER CREEK
PROCTOR VI
SCALE 1/8" = 1'
DEC 5, 1935
S.P. # 14/1935

ESTIMATED QUANTITIES

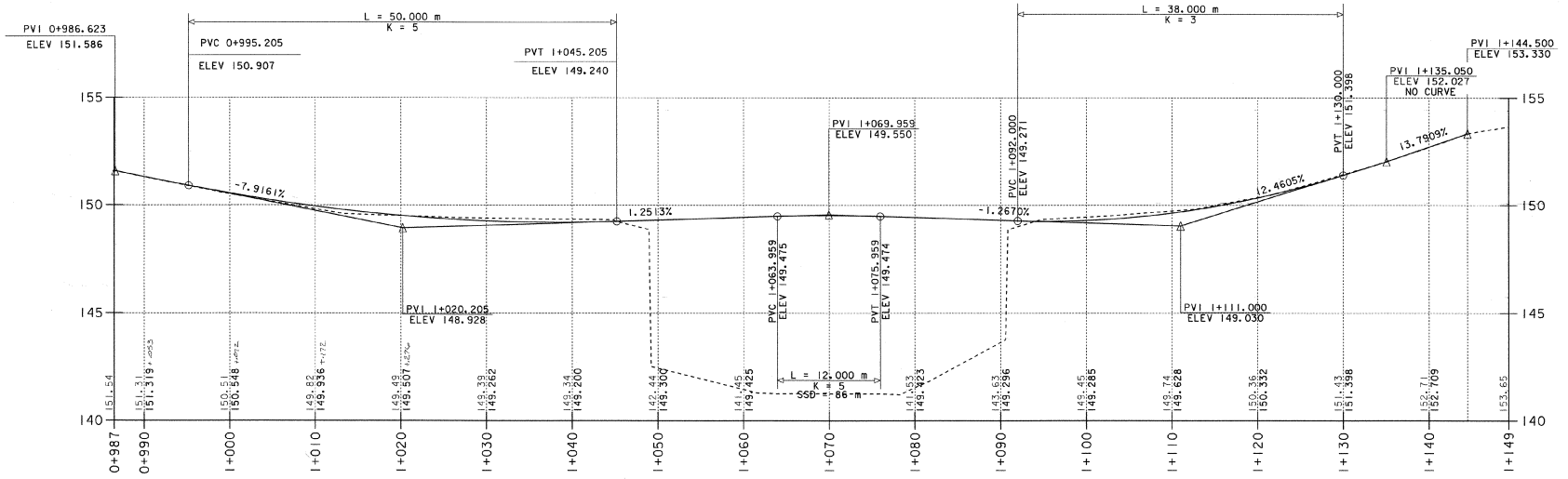
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PROCTOR
BHF 0155 (5) S

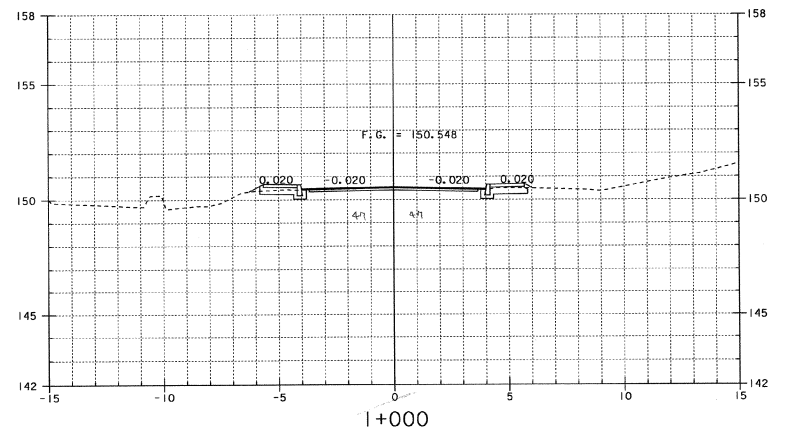
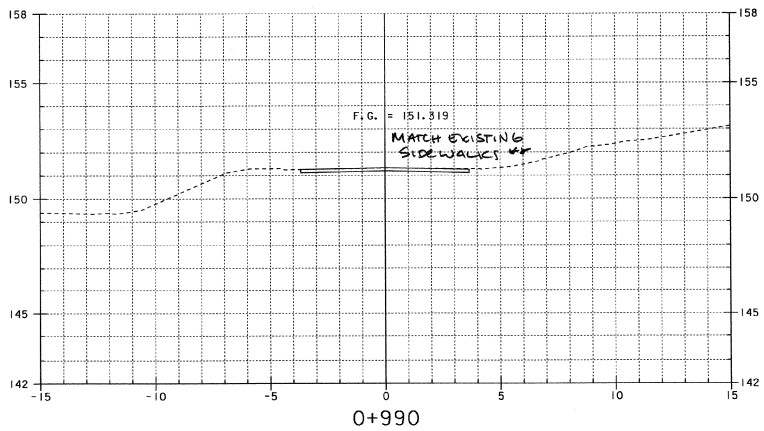
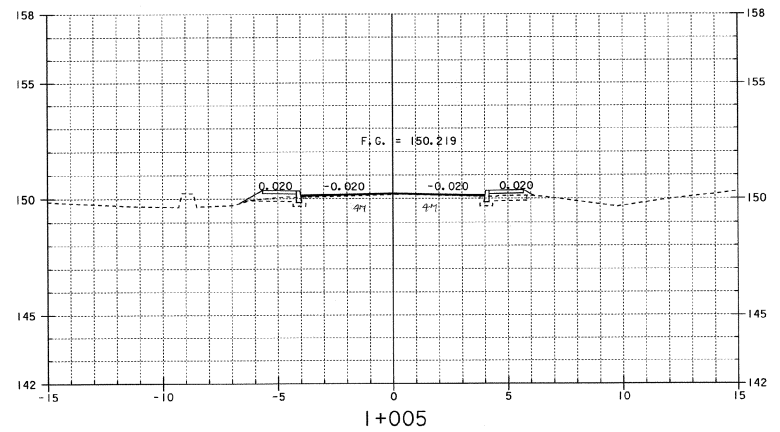
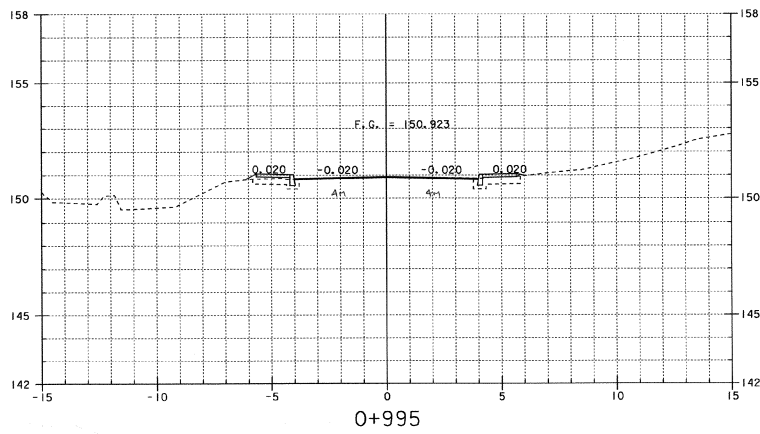
REFERENCE SHEET
FOR INFORMATIONAL PURPOSES ONLY

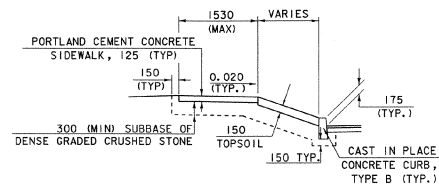
SHEET 5th OF 5th SHEET

Profile



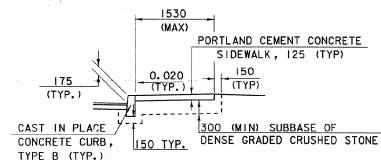
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PROJECT NUMBER: PROCTOR	HIGHWAY NO.: TH 3
PROJECT NUMBER: BHF 0155(5S)	BRIDGE NO.: 2
	OVER: OTTER CREEK
FILE NAME: s:\p1\94\088\0155\088xsl.dgn	PLOT DATE: 03-SEP-2002
PROJECT MANAGER: C.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: s\088p\2.1
BRIDGE SHEET NUMBER:	SHEET 60 OF





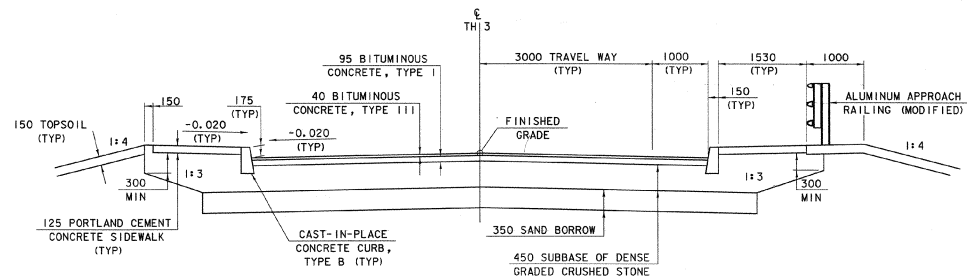
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STA 1+095 TO STA 1+144.5 LT

NTS



SIDEWALK TYPICAL
STA 0 + 996 TO STA 1+025

NTS

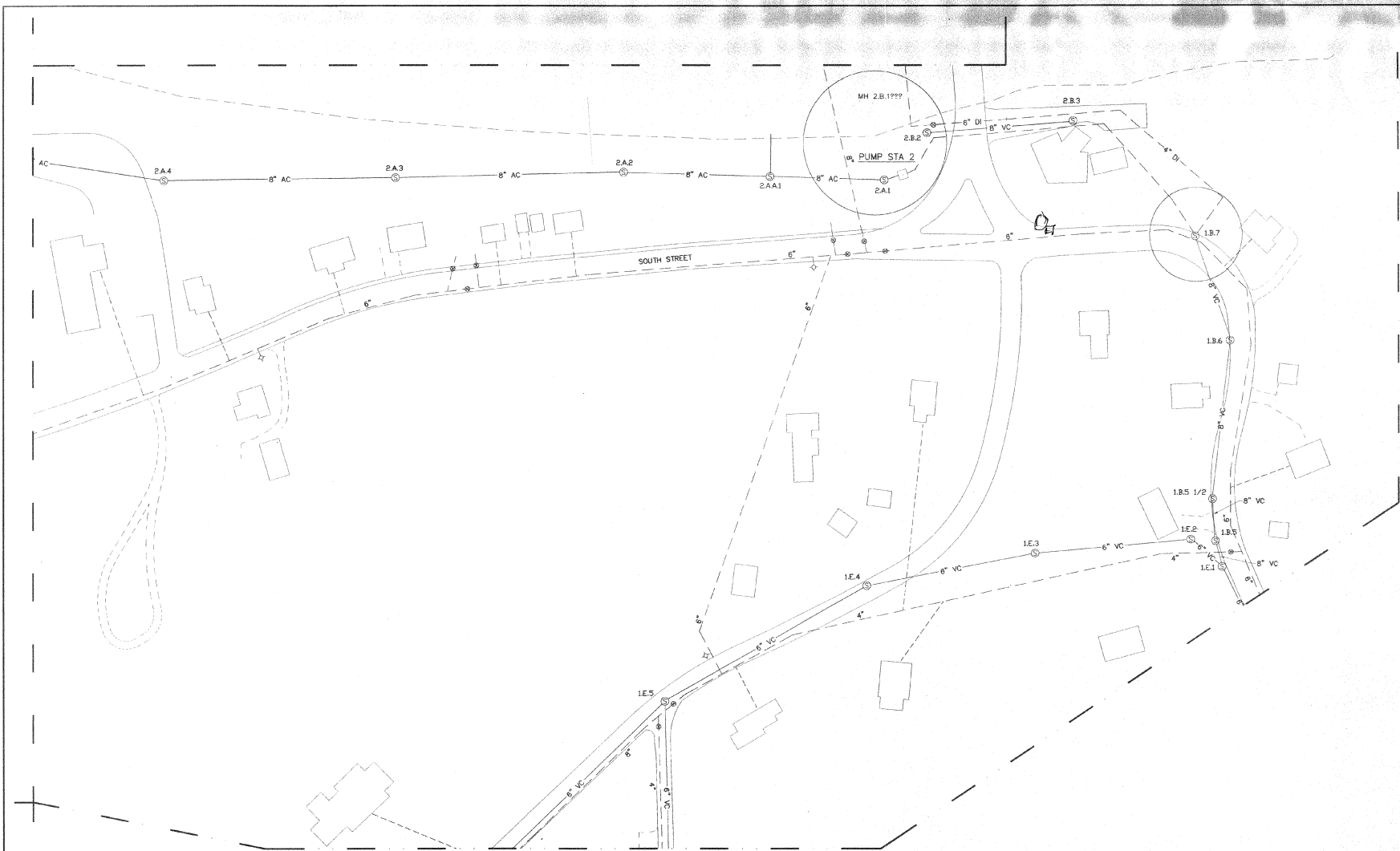


ROADWAY TYPICAL

NTS

(STA 0 + 986 - 1 + 020 +/-)

See drawing sheet 1170 for details

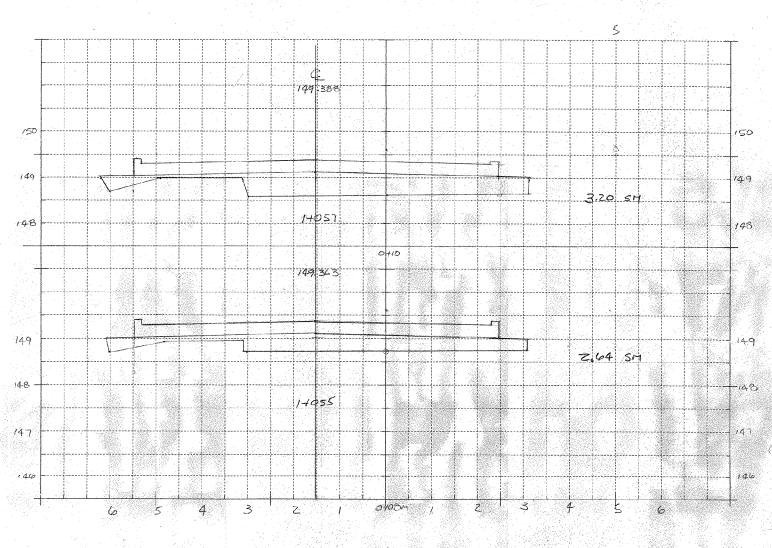
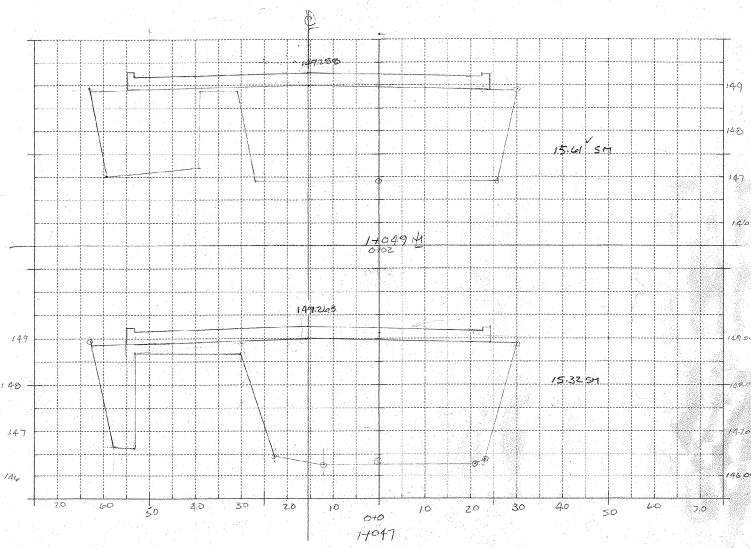
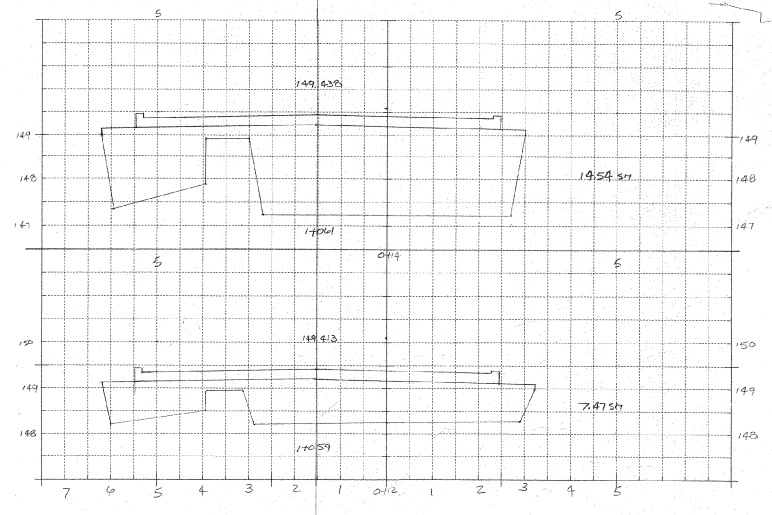
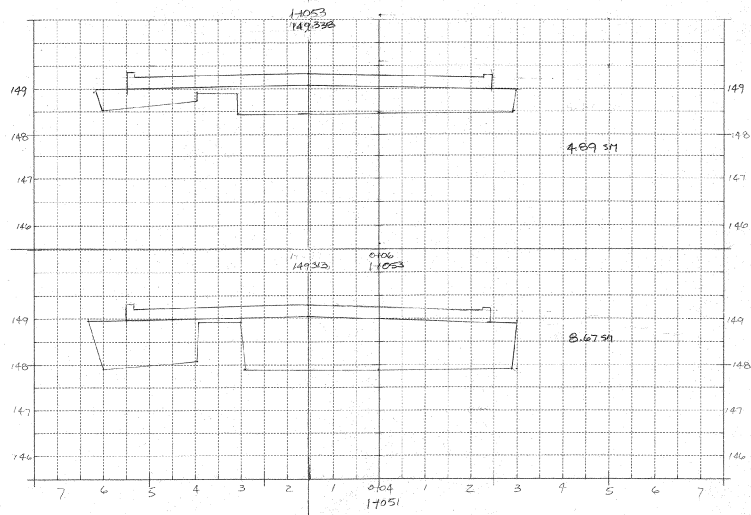


THE ENGINEER'S SIGNATURE BELOW INDICATES THAT HE/SHE HAS REVIEWED THIS PLAN AND HAS AUTHORIZED SUBMITTAL TO THE REVIEWING AGENCIES. PLANS ARE NOT FOR CONSTRUCTION UNLESS SEALED BY THE ENGINEER.

WRIGHT ENGINEERING, LTD.
Consulting Engineers
 Rutland, Vermont

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Revision No.	Date	Description	Dr.	Ck.
SEWER AND WATER SYSTEM MAPPING FOR TOWN OF PROCTOR PROCTOR, VERMONT				
PLAN				
Drawn By:	Date:	Scale:	Eng'r's Job No.	Sheet No.
Checked By:	Date:	1"=60'	0007	14
Certified By:	Date:			SHEET 63

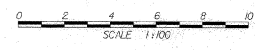
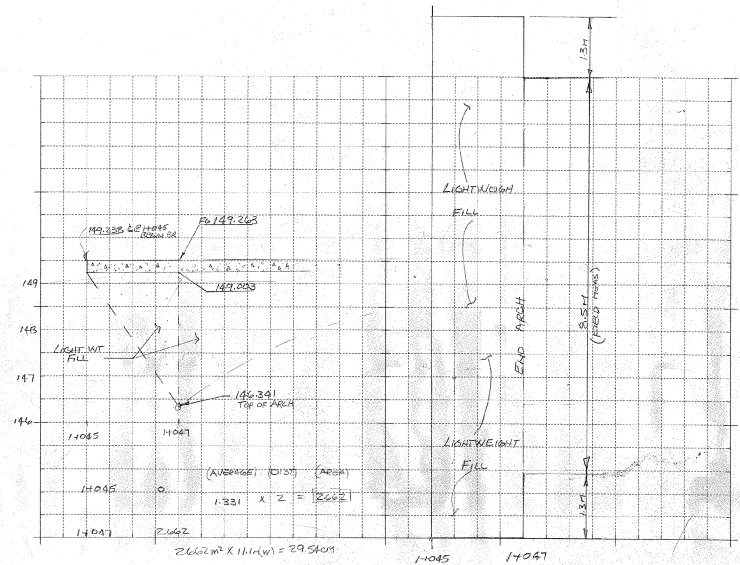
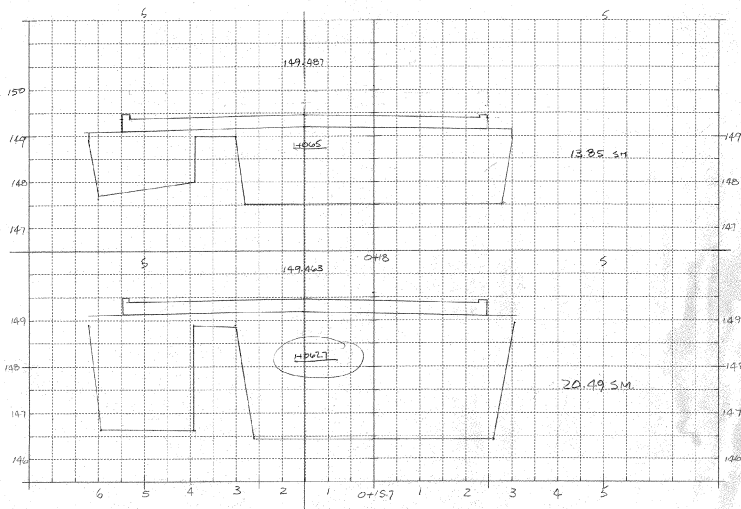
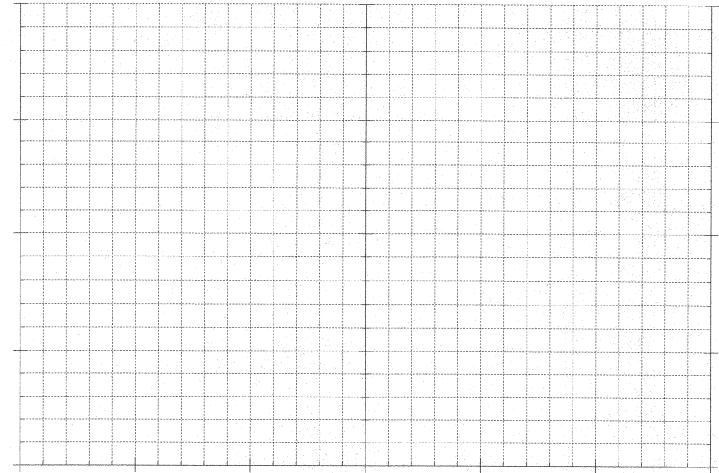
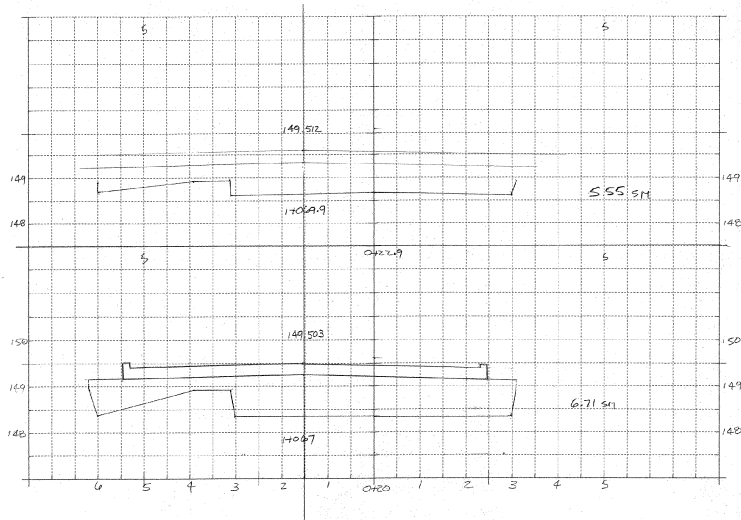


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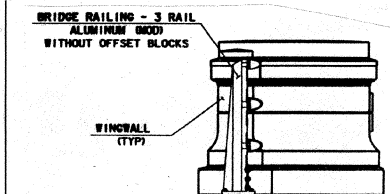
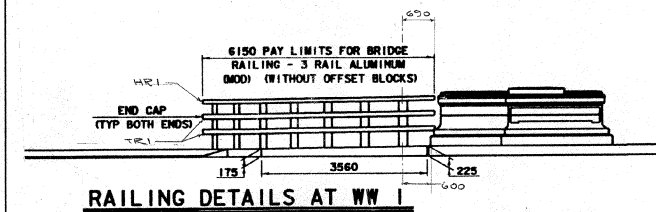
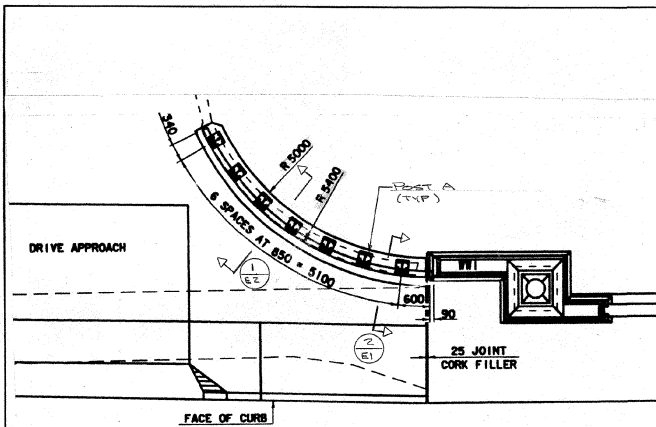
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SCALE 1:1000

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IPARM FILE NAME:	
MAINLINE ROADWAY SECTIONS	SHEET: 64 OF

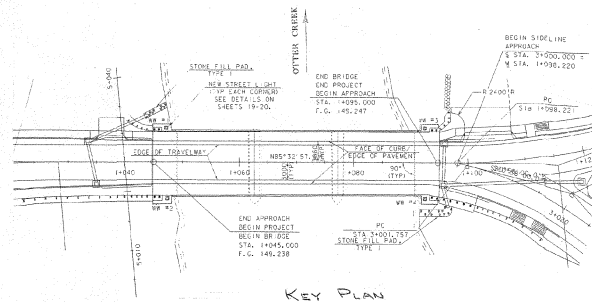
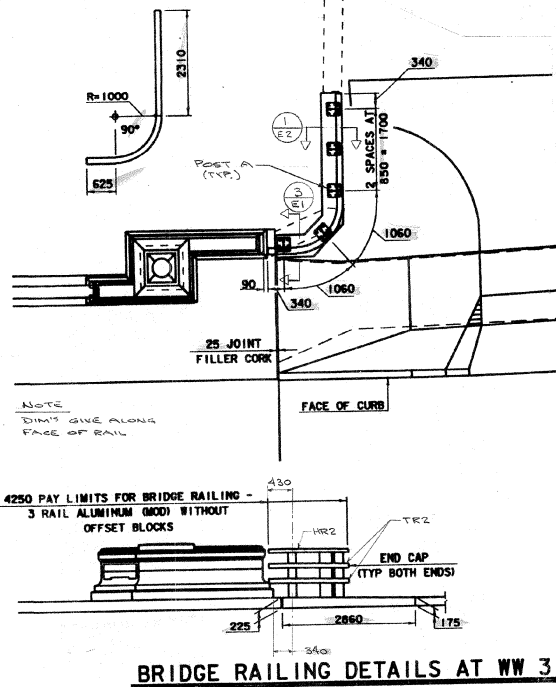


PROJECT:	PROJECT NO.:
DESIGN FILE NAME: construction g:\common\cadd\met-x.s.dgn	PLOT DATE:
IPARM FILE NAME:	
MAINLINE ROADWAY SECTIONS	
SHEET: 65 OF 2	



SECT. 2 (E1) AS SHOWN

SECT. 3 (E1) OPP. HAND



JOB'S ACCOUNT		
NO.	QTY.	DESCRIPTION
HR1	1	UNUSUAL 7500
HR2	1	4304
HR3	1	9214
HR4	1	9750
HR5	1	2955
HR6	1	8064
HR7	1	9100
HR8	1	8200
TR1	2	TENDRALK 7500
TR2	2	4304
TR3	2	9214
TR4	2	9750
TR5	2	2955
TR6	2	8000
TR7	2	9100
TR8	2	8200
20		POST A
24		APP POST AD
24		STANDOFF ST1
88		#4 CLAMP BAR
176		#1 CLAMP BAR
176		MIS #15 ST STEEL W/
352		MIS #25 ST STEEL W/
672		MIS ALL WASHER
144		MIS #15 ST STEEL W/ NOT
4		MIS #15 ST STEEL W/ NOT
128		MIS #10 BOLT
128		MIS #10 ST W/ WASHER
2		HR SPACER 31
4		TR SPACER 31
4		TR SPACER 32
2		TR SPACER 34
2		TR SPACER 36
8		GR UNIVERSAL CAP
16		GR UNIVERSAL CAP
20		POST PAD
100		MIS #25 GALV STEEL THD. NO BOTT. END
300		M20 GALV HEX NUT
100		M20 GALV WASHER
20		ANCHOR B

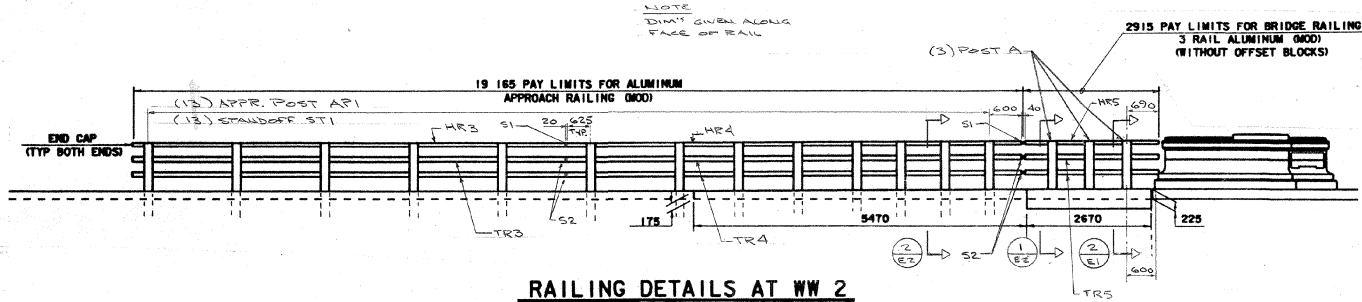
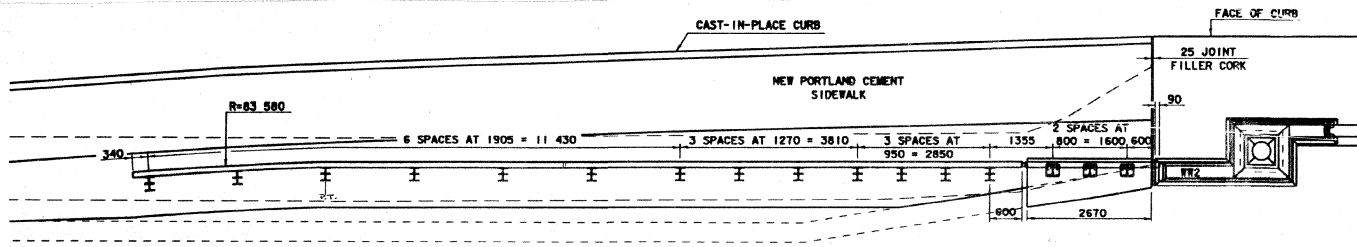
*Structures
Copes*

FINISH BLACK ANODIZE PER JOB SPEC.

RECEIVED OK'D BY: <u> </u> OK'D BY: <u> </u> JUL 22 2002 RESUBMIT: <u> </u> APPROVED: <u> </u> BY: GOR DATE: 8/10/02		AUCIELLO IRON WORKS INC 560 MAIN ST HUDSON, MA (508)568-8382 VT. AGENT OF TRANSPORTATION PROCTOR: <u> </u> EHP 0155-013 BRIDGE # 2 THIS OVER THE TOP CRACK ALL BRIDGE APPROVALS FOR: <u> </u> ENG. NO. <u> </u> DR: <u> </u> ENG. NO. <u> </u> CHK: <u> </u> (S) (S) (S) JOB NO. <u> </u> BY: <u> </u> ASSEMBLER SHEETS 1 OF 3
--	--	---

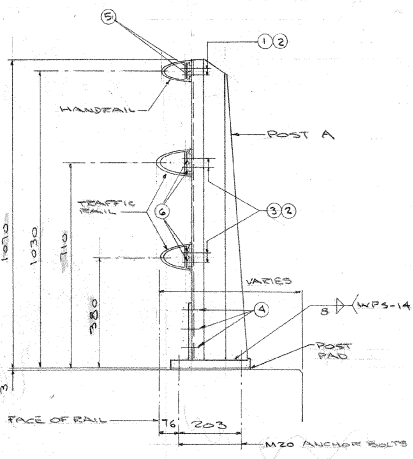
DIM'S ARE GIVEN IN MILLIMETERS UNLESS OTHERWISE NOTED

1	7/10/02	THIS APPROVAL	BY: <u> </u>
ISSUE	DATE	DESCRIPTION	BY

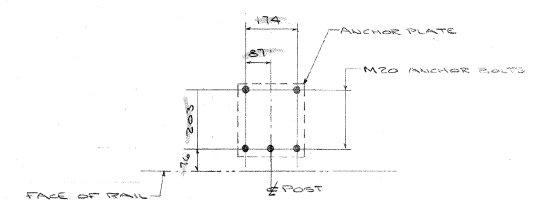
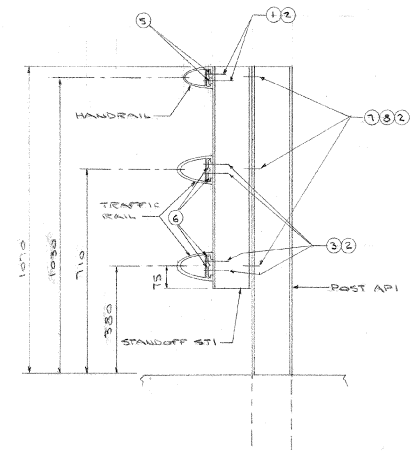


RAILING DETAILS AT WW 2

REFERENCE DWGS
 BRIDGE SHEETS 27, 28, 30, 31, 32 (5/15/02)
 BRIDGE SHEETS 11 & 29 (2/12/02)



- ① M13 x 19 HEX HD CAP SCREW (A193, GR. B8)
- ② AL. FLAT WASHER 27.0 D. x 13.5 I.D. x 2.3 THK.
- ③ M13 x 25 HEX HD CAP SCREW (A193, GR. B8)
- ④ 22# AL RIVET (ALLOY 6061-T6), COLD DRIVEN.
- ⑤ #4 CLAMP BAR
- ⑥ #1 CLAMP BAR
- ⑦ M13 x 35 HEX HD BOLT (302 OR 304 ST. STL.)
- ⑧ M13 HEX NUT (302 OR 304 ST. STL.)



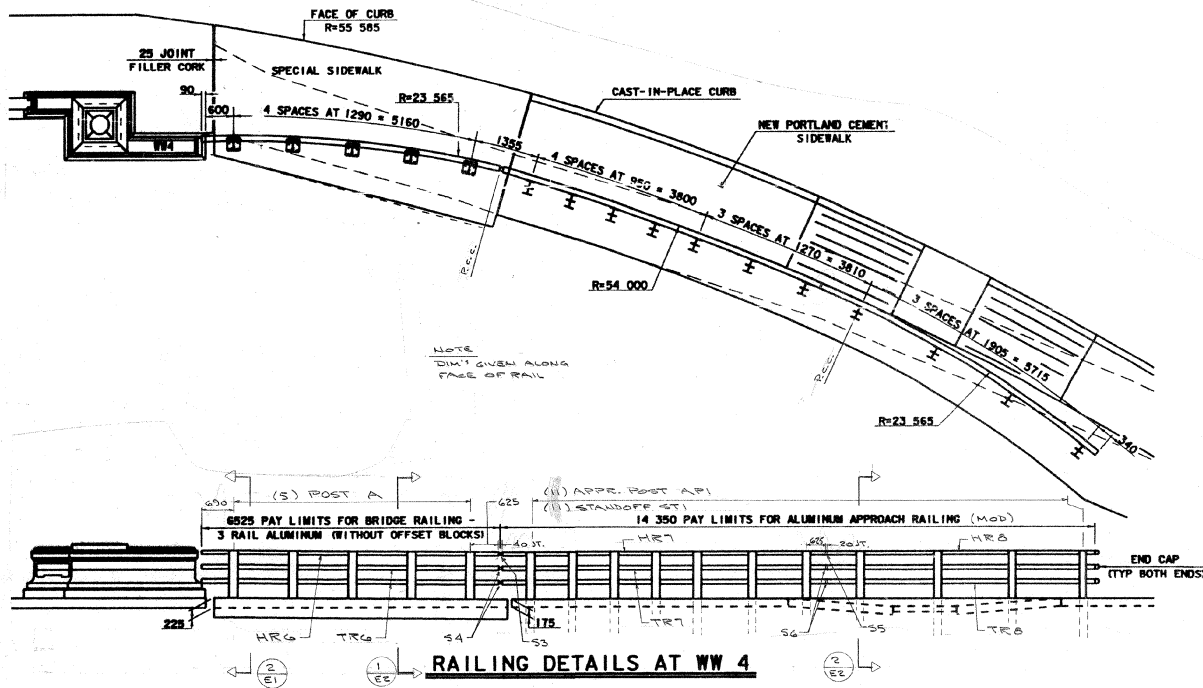
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SECTION 1
 BRIDGE RAILING

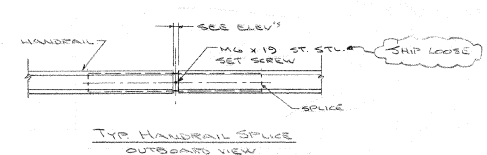
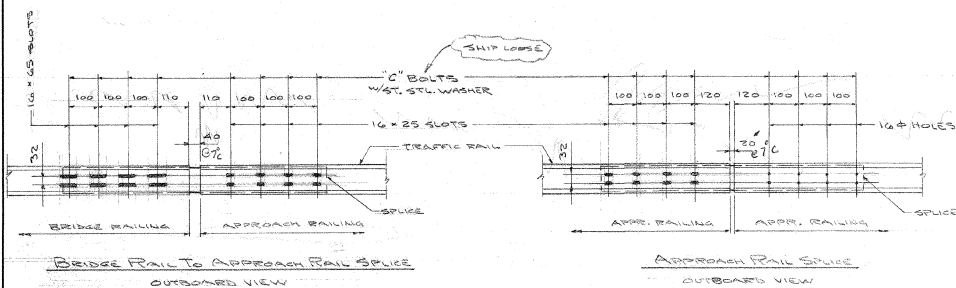
SECTION 2
 APPROACH RAILING

RECEIVED COPY/ D.E.A. OK'D BY: <i>[Signature]</i> JUL 22 2002 SUBMITT APPROVED <i>[Signature]</i> BY CCR DATE 8/1/02		AUCIELLO IRON WORKS INC. 560 MAIN ST HUDSON, MA (508)558-8382 VT. AGENCY OF TRANSPORTATION PROJECT: BWP 0135(518) BRIDGE #2 TR3 OVER OTTER CREEK AL. BRIDGE & APPROACH RAILING FOR: E.R. LAFAYETTE, INC. DR: T.S. FURR CHK: M. J. JONES DWG NO. BR-210 JOB NO. 0135(518) NO. SHEETS: 3 SHEET 22 OF 3
1 ISSUE DATE	FOR APPROVAL DESCRIPTION	01

DIM'T ARE GIVEN IN MILLIMETERS,
 U.N.I.

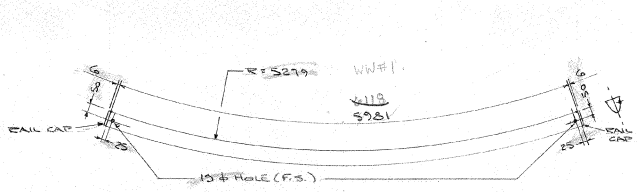


RAILING DETAILS AT WW 4

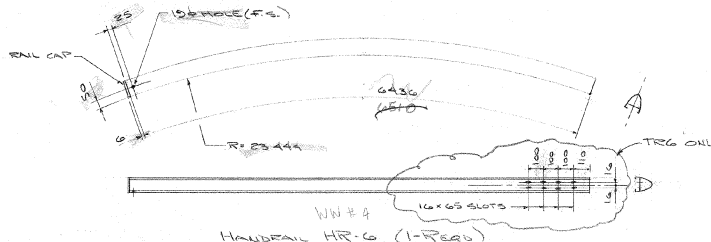


FINISH!
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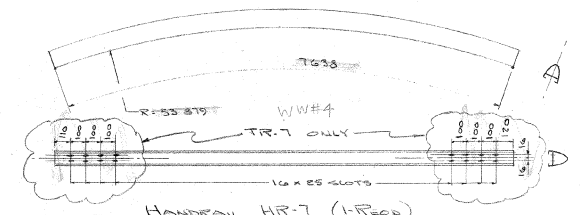
RECEIVED CDRY/D.E.L. OR BY <u>Ca</u> JUL 22 2002 RESUBMIT APPROVED BY <u>WJ</u> BY <u>C.S.H.</u> DATE <u>8/10/02</u>		AUCIELLO IRON WORKS INC 560 MAIN ST HUDSON, MA 01896-8382 VT AGENCY OF TRANSPORTATION PROJECT BRIDGE #2 THIS OVER OTTER CREEK AL BRIDGE & APPROACH RAILING FOR S.C. LINDENHILL DWG NO. BR 0110 JOB NO. BR 0110 APPROVAL BY SHEET 03 OF 3
DIM'S ARE GIVEN IN MILLIMETERS. U.N.L.	1 JUL-02 FOR APPROVAL ISSUE DATE DESCRIPTION	BY



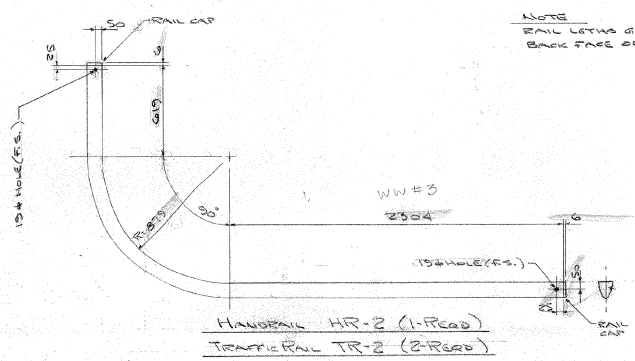
HANDRAIL HR-1 (1-REQ)
TRAFFIC RAIL TR-1 (1-REQ)



HANDRAIL HR-6 (1-REQ)
TRAFFIC RAIL TR-6 (2-REQ)

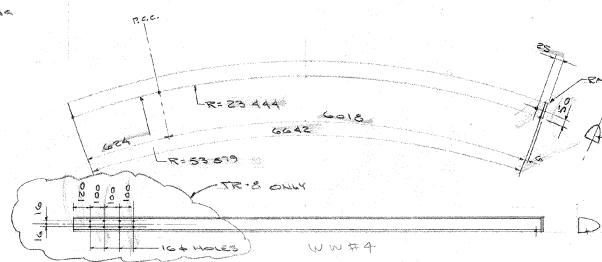


HANDRAIL HR-7 (1-REQ)
TRAFFIC RAIL TR-7 (2-REQ)

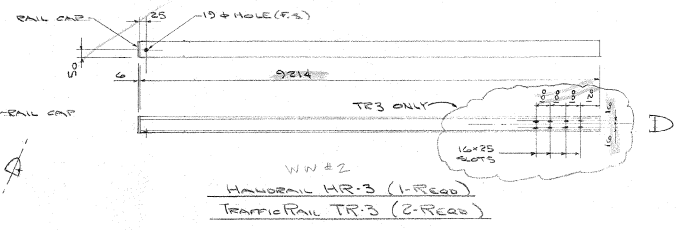


HANDRAIL HR-2 (1-REQ)
TRAFFIC RAIL TR-2 (2-REQ)

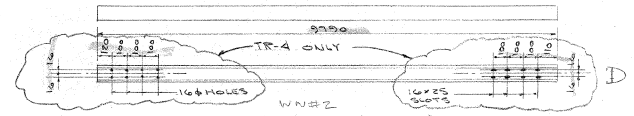
NOTE
RAIL LETTERS GIVEN ALONG
BACK FACE OF RAIL



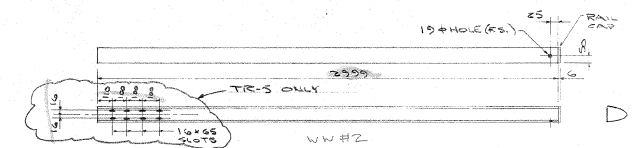
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TRAFFIC RAIL TR-3 (2-REQ)



HANDRAIL HR-3 (1-REQ)
TRAFFIC RAIL TR-3 (2-REQ)

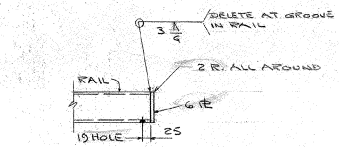


HANDRAIL HR-4 (1-REQ)
TRAFFIC RAIL TR-4 (2-REQ)

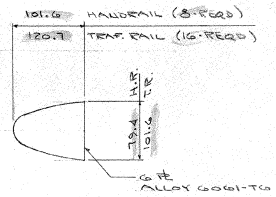


HANDRAIL HR-5 (1-REQ)
TRAFFIC RAIL TR-5 (2-REQ)

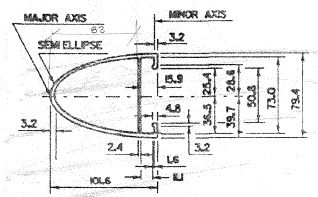
FINISH:
BLACK ANODIZE PER JOB SPECS.



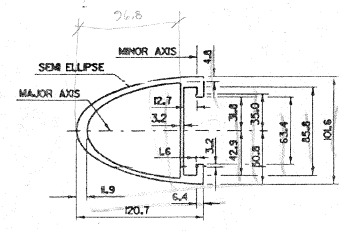
DET. AT RAIL CAP



RAIL CAPS

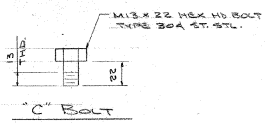
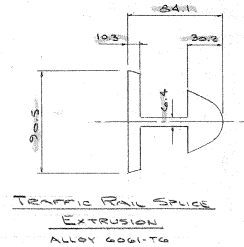
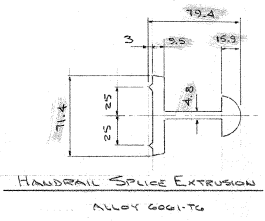
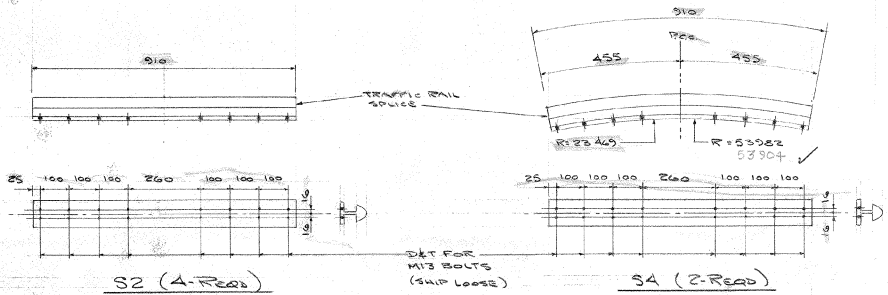
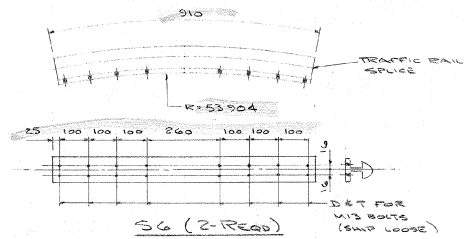
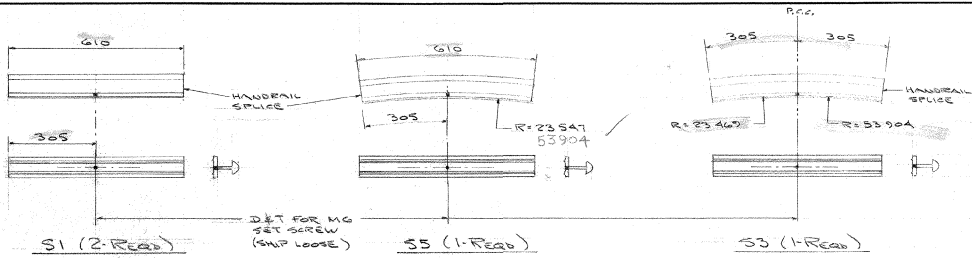


HANDRAIL EXTRUSION
ALLOY 6061-T6



TRAFFIC RAIL EXTRUSION
ALLOY 6061-T6

RECEIVED		AUCIELLO IRON WORKS INC	
ORDER DELETED		560 MAIN ST HUDSON, MA 02026-8382	
JUL 22 2002		VT. AGENCY OF TRANSPORTATION	
RESUBMIT APPROVED		PROJECT SUPERVISOR	
BY GSE DATE 8/6/02		BY GSE DATE 8/6/02	
		EXPLODE # 2	
		THIS CHANGES OTHER EXPLODE	
		ALL DIMENSIONS APPROVED PER PLAN	
		FOR DETAILS SEE	
		DRAWING NO. DWG NO.	
		CHK: 7-11-02 BY: 7-11-02	
		JOB NO. 010-02110	
		SHEET 22 OF 3	



FINISH:
BLACK ANODIZE PER JOB SPEC.

RECEIVED		AUCIELLO IRON WORKS INC	
DESIGNED BY	DATE	560 MAIN ST. HUDSON, MA 02056-8382	
APPROVED BY	DATE	VT. AGENCY OF TRANSPORTATION	
BY	DATE	PROJECTOR BHP 0155/515	
		BRIDGE # 2	
		TH'S OVER OTTER CREEK	
		AL BRIDGE & APPROACH PILING	
		FOR: F.R. LANFRETTE, INC.	
		DRAWING NO. 10-102	
		CHK'D BY: J.S. 02	
		BY: R. 27 10	
		JOB NO. 10-2002-2-A1	
		SHEET 23 OF 23	

DM'S ARE GIVEN IN MILLIMETERS, U.N.

1 7/10/02 FOR APPROVAL

ISSUE DATE DESCRIPTION BY