

VTRANS STANDARD DRAWINGS

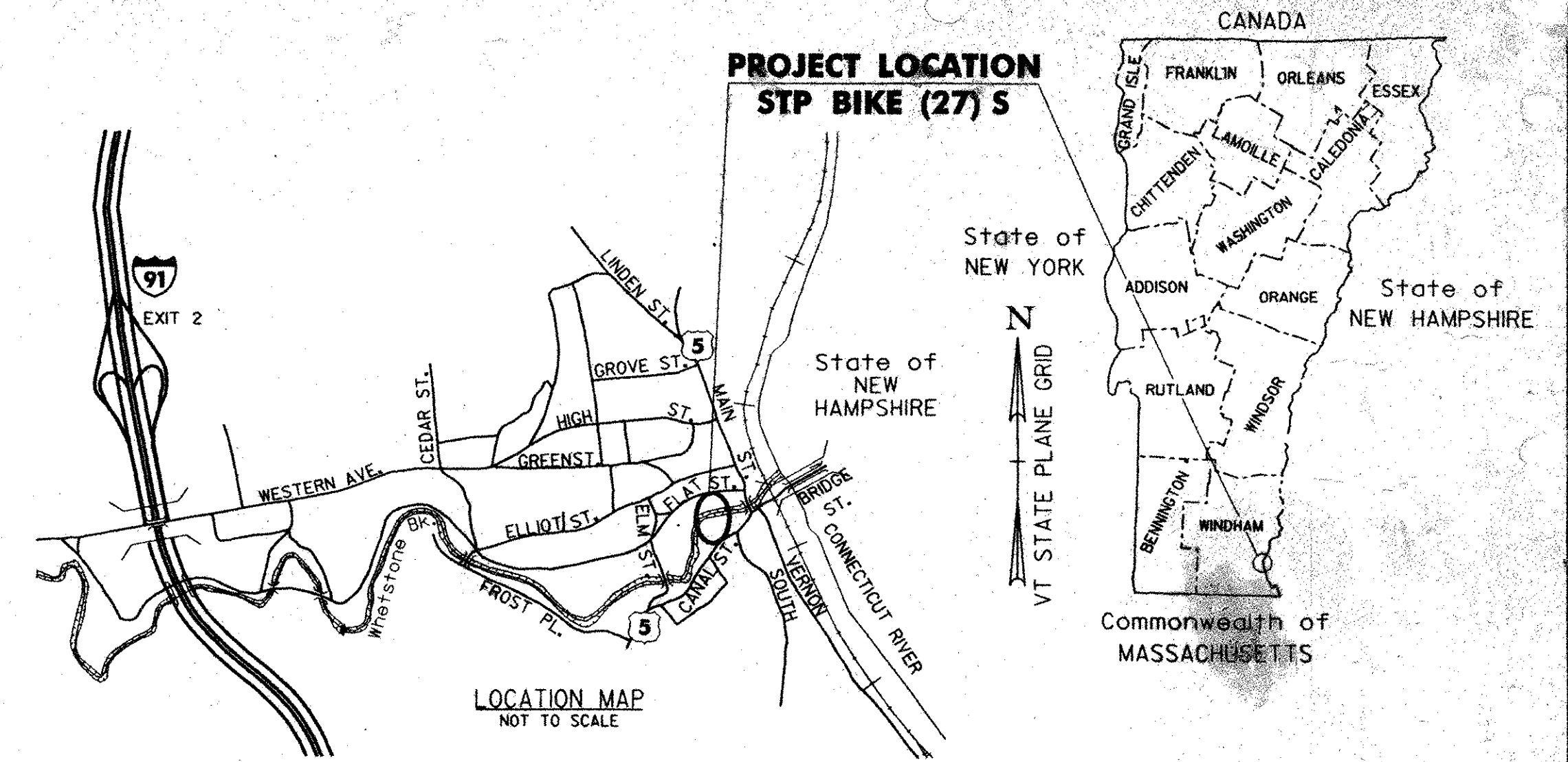
B-5M	SLOPE GRADING, EMBANKMENTS, MUCK	1/3/00
B-71M	RESIDENTIAL AND COMMERCIAL DRIVES	3/1/01
C-1M	CURBS, BITUMINOUS CONCRETE SIDEWALKS GRANITE SLOPE EDGING, VERTICAL GRANITE CURB PRECAST REINFORCED CONCRETE CURB CAST IN PLACE CONCRETE CURB BITUMINOUS CONCRETE CURB, TREATED TIMBER CURB	1/3/00
C-2BM	CEMENT CONCRETE SIDEWALK, CONCRETE CURB	1/3/00
C-3A	SIDEWALK RAMPS	2/2/04
D-1M	PRECAST REINFORCED CONCRETE PIPE DROP INLET WITH CAST IRON GRATE PRECAST REINFORCED CONCRETE PIPE DROP INLET WITH CONCRETE COVER	6/13/97
D-2M	C.R.M. HEADWALLS & RETAINING WALL RIPRAP LIGHT TYPE SLOPE HEADWALL REINFORCED CONCRETE HEADWALL UNDERDRAIN & CARRIER PIPE CONSTRUCTION DETAILS	6/13/97
D-8M	REINFORCED CONCRETE DROP INLET WITH PRECAST COVER & GRATE (BOTTOM SECTION)	1/3/00
D-9M	REINFORCED CONCRETE DROP INLET TOPS VERTICAL CURB & THROAT ADAPTER	6/13/97
D-13M	CONCRETE CATCH BASIN WITH CAST IRON GRATE & CONCRETE MANHOLE WITH CAST IRON GRATE	1/3/00
D-15M	PRECAST REINF. CONC. CATCH BASIN W/ CAST IRON GRATE PRECAST REINF. CONC. MANHOLE W/ CAST IRON COVER CAST IRON GRATE WITH FRAME, TYPE D CAST IRON GRATE WITH FRAME, TYPE E	6/13/97
E-100M	CONSTRUCTION APPROACH SIGNS	6/13/97
E-100AM	SIDE ROAD CONSTRUCTION - APPROACH SIGNS	2/02/98
E-106M	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	6/13/97
E-107M	DELINEATION, BARRICADES AND DETOURS FOR U-TURNS ON DIVIDED HIGHWAY	6/13/97
E-107AM	BREAKAWAY BARRICADE DETAILS	6/13/97
E-121M	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	6/13/97
E-163M	TUBULAR STEEL SIGN POST	6/13/97
E-173M	PULL BOXES AND JUNCTION BOXES	6/13/97
E-175M	POWER DROP STANCHIONS	6/13/97
E-180AM	STREET LIGHTING DETAILS	6/13/97
E-180BM	STREET LIGHTING DETAILS	6/13/97
E-191M	PAVEMENT MARKING DETAILS	2/1/99
E-193M	PAVEMENT MARKING DETAILS	6/13/97

PROPOSED IMPROVEMENT WHETSTONE BROOK PATHWAY PROJECT TOWN OF BRATTLEBORO WINDHAM COUNTY STP BIKE (27) S

PROJECT LOCATION: BEGINNING IN THE PRESTON MUNICIPAL PARKING LOT AT THE INTERSECTION WITH THE FLAT STREET SIDEWALK AND EXTENDING 31.400 METERS THROUGH THE PARKING LOT, THEN CROSSING A NEW BRIDGE OVER WHETSTONE BROOK TO THE BROOKSIDE PLAZA PARKING LOT AND CONTINUING APPROXIMATELY 87.893 METERS TO THE MAIN STREET (U.S. ROUTE 5) SIDEWALK.

PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES CONSTRUCTION OF A NEW PATHWAY AND BRIDGE, INCLUDING THE INSTALLATION OF NEW TREE PLANTERS, FENCE, LIGHTING, LANDSCAPING AND OTHER INCIDENTAL ITEMS.

LENGTH OF PATHWAY = 119.293 METERS (0.119 KM)
LENGTH OF BRIDGE = 27.432 METERS (0.027 KM)
LENGTH OF PROJECT = 146.725 METERS (0.147 KM)



INDEX OF SHEETS

- TITLE SHEET
- PRELIMINARY INFORMATION SHEET
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- RIGHT OF WAY SHEET
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- TIE SHEET
- PLAN SHEET
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- BORING INFORMATION SHEET
- BORING LOG SHEET
- PLAN AND ELEVATION SHEET
- RETAINING WALL SHEET
- BAST PARKING LOT IMPROVEMENTS
- UTILITY RELOCATION SHEET
- BROOKSIDE PLAZA & U.S. ROUTE 5
DETAIL LAYOUT SHEET
- DRAINAGE & MASONRY BLOCK
RETAINING WALL PROFILE SHEET
- LANDSCAPING PLAN
- TRAFFIC CONTROL SHEET
- GENERAL NOTES SHEET
- ABUTMENT DETAILS
- DETAILS SHEET
- 21-23. PATHWAY CROSS SECTIONS
- EROSION & SEDIMENTATION
CONTROL SHEET

RECORD DRAWINGS FOR PATHWAY

**BID PLANS
FEBRUARY 2004**

Metric

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

APPROVED _____ DATE _____
BRATTLEBORO TOWN MANAGER

PROJECT TOWN OF BRATTLEBORO
STP BIKE (27) S
SHEET 1 OF 30 11429

**BEGIN PROJECT
STP BIKE (27) S
STA 1+000.000
(MATCH EXISTING)**

**END PROJECT
STP BIKE (27) S
STA 1+146.725
(MATCH EXISTING)**

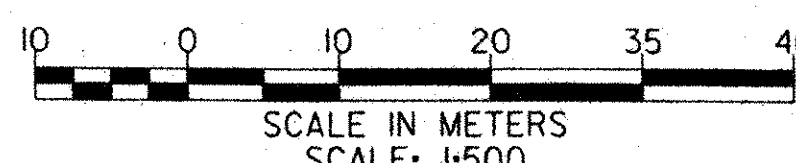
**BEGIN BRIDGE
STA 1+031.400**

**END BRIDGE
STA 1+058.832**

CONVENTIONAL SIGNS	
COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---X---
POINT OF ACCESS	X
FENCE LINE	---X---
STONE WALL	---X---
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	---

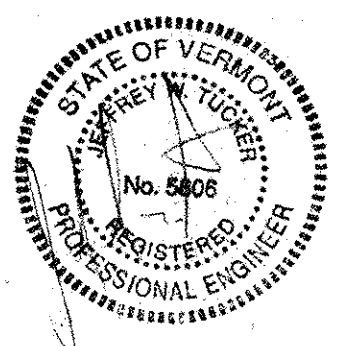
PLANS PREPARED BY:

DATUM	
VERTICAL	NVD 88
HORIZONTAL	NAD 83

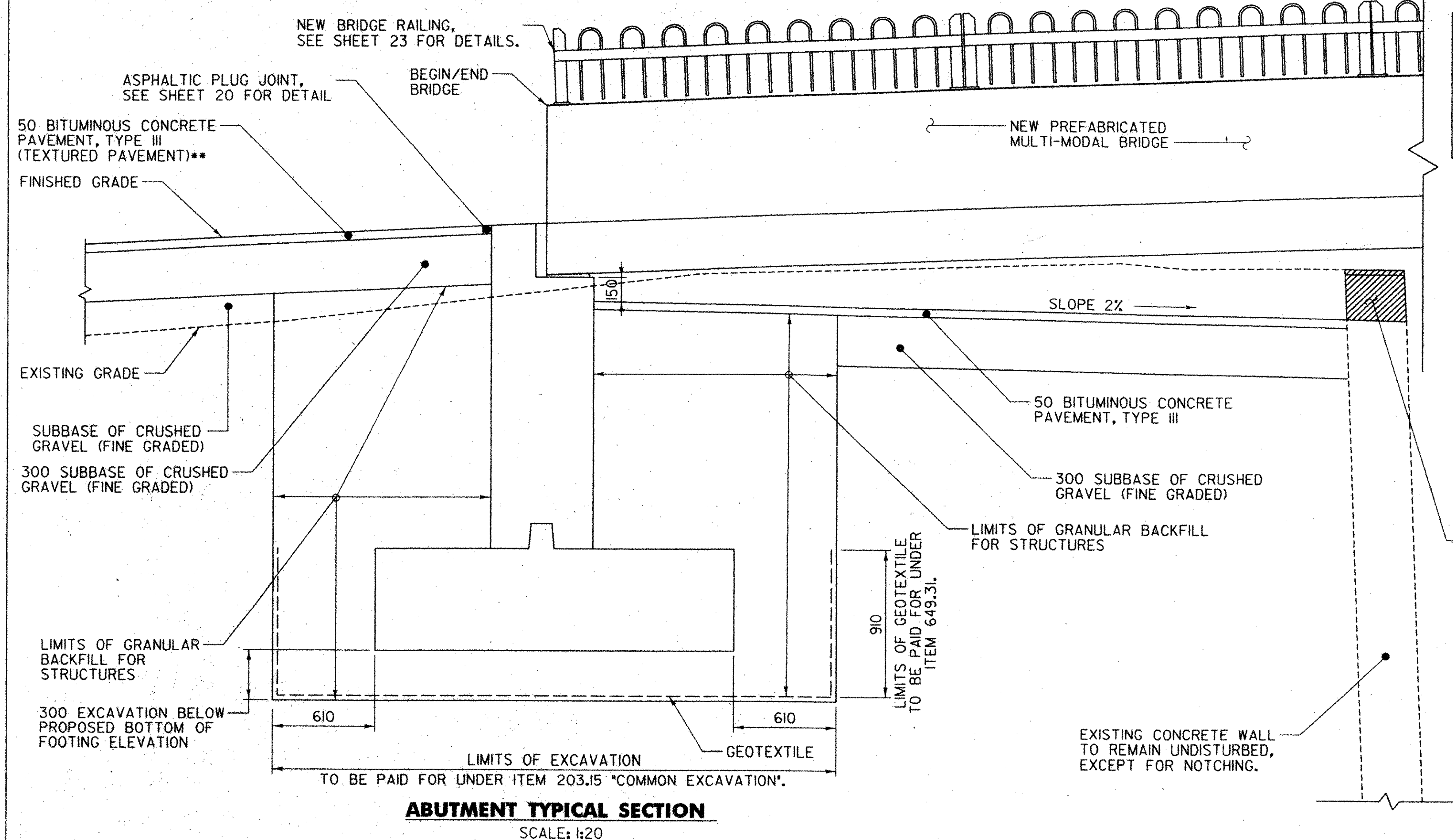
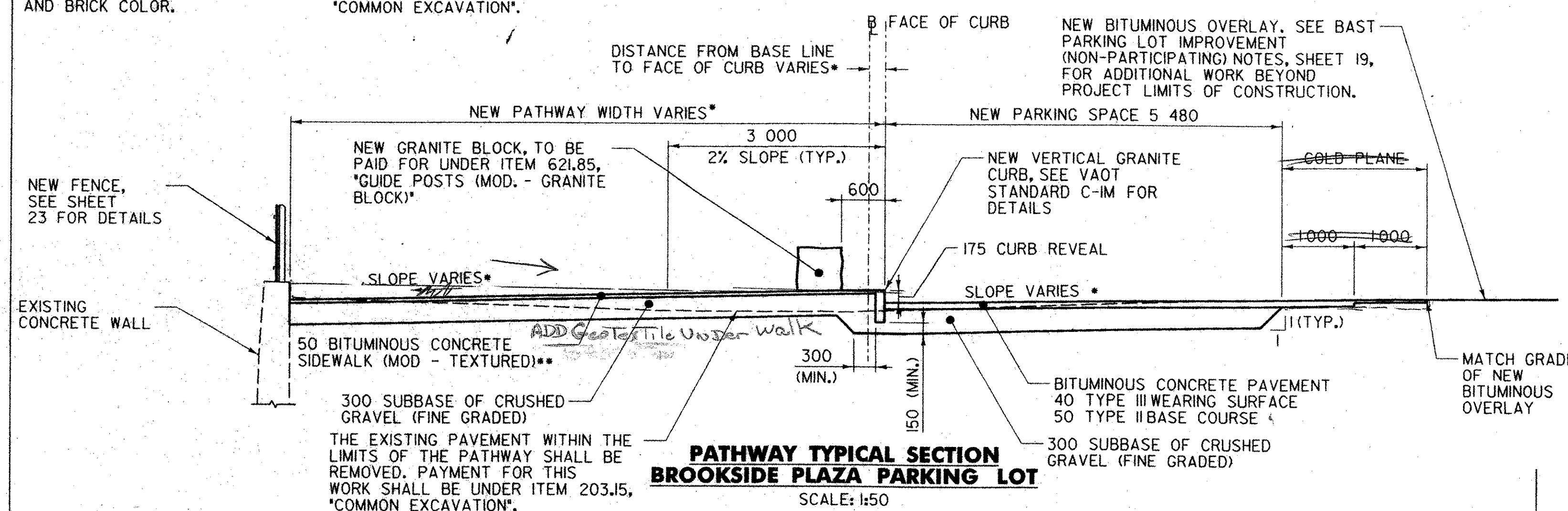
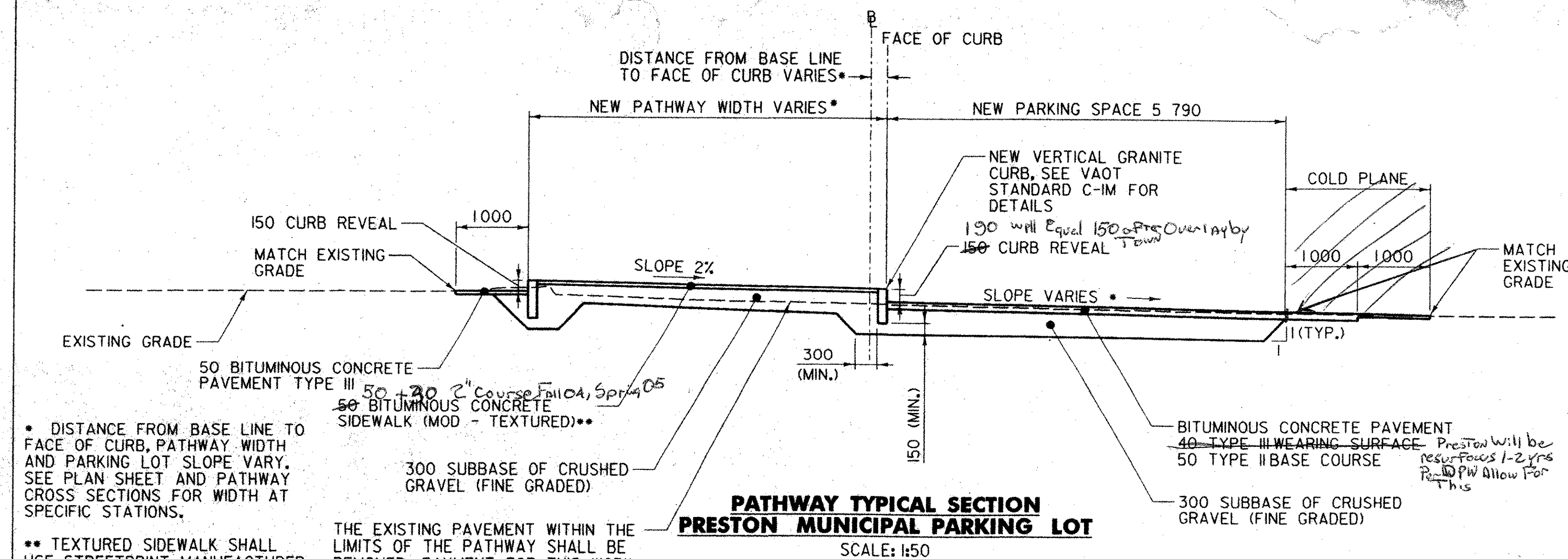


**FUNDING ASSISTANCE FOR THIS PROJECT IS
BEING PROVIDED BY VTRANS AND FHWA**

PLOTTED: 03/11/2004



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE BRATTLEBORO TOWN MANAGER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.



HYDROLOGIC DATA

DRAINAGE AREA= 72.5 SQUARE KILOMETERS
 CHARACTER OF TERRAIN: URBAN
 CHARACTER & TYPE OF STREAM: STEEP GRADIENT, CHANNEL DEFINED BY RETAINING WALLS
 NATURE OF STREAMBED: VARIABLE SLOPE

DATE OF FLOOD OF RECORD: JULY 1, 1973
 WATER SURFACE ELEV.: UNKNOWN ESTIMATED DISCHARGE: UNKNOWN
 NATURAL STREAM VELOCITY @ 0.25 =
 ICE CONDITIONS: MODERATE DEBRIS: LIGHT
 DOES THE STREAM REACH MAXIMUM HIGHWATER ELEVATION RAPIDLY? YES
 IS ORDINARY RISE RAPID? YES
 IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? YES
 IF YES, DESCRIBE. STAGE AFFECTED BY FALLS APPROXIMATELY 200 METERS DOWNSTREAM
 WATERSHED STORAGE HEADWATERS: UNIFORM THROUGHOUT WATERSHED IMMEDIATELY ABOVE SITE

ADDITIONAL COMMENTS

HYDROLOGIC AND HYDRAULIC DATA WAS OBTAINED FROM THE FLOOD INSURANCE STUDY, TOWN OF BRATTLEBORO, VERMONT, WINDHAM COUNTY, DECEMBER 4, 1985 BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (COMMUNITY NUMBER - 500126).

PROPOSED STRUCTURE

STRUCTURE TYPE: NEW SUPERSTRUCTURE TO BE PLACED BEHIND EXISTING RETAINING WALLS
 CLEAR SPAN (NORMAL TO STREAM): 18.887 m
 VERTICAL CLEARANCE ABOVE STREAMBED:
 WATERWAY OF FULL OPENING:

WATER SURFACE ELEV. @ 02.33= VELOCITY=
 010= 76 m =
 025= m =
 050= 77 m =
 0100= 77 m =

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

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE:
 VERTICAL CLEARANCE @ 025

SCOUR:
 REQUIRED CHANNEL PROTECTION:

PERMIT INFORMATION

AVERAGE DAILY FLOW:
 ORDINARY LOW WATER: DEPTH:
 ORDINARY HIGH WATER: DEPTH:

DESIGN CRITERIA:

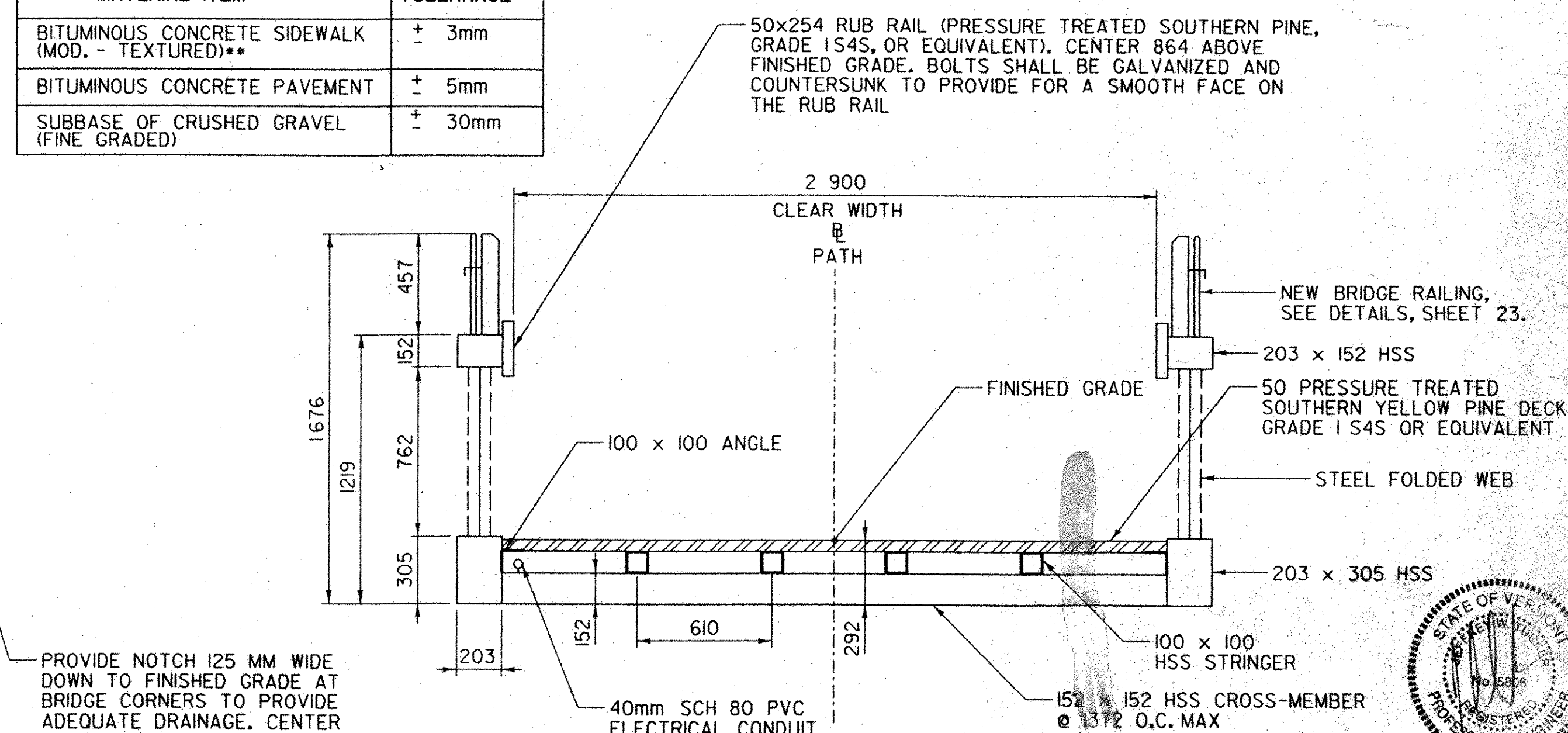
- DESIGN LIVE LOAD AASHTO 4 KPa, M9 VEHICLE (85 PEDESTRIAN LIVE LOAD, H10 20,000 lbs VEHICLE LIVE LOAD)
- DESIGN SPAN 27.242 METERS - CENTERLINE OF BEARING
- ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL 190 KPa ON LEDGE N/A
- ALLOWABLE LOAD FOR PILING N/A TYPE ESTIMATED LENGTH
- STRUCTURAL STEEL AASHTO M 270/M 270 GRADE 345
- REINFORCING STEEL GRADE 420
- CONCRETE, HIGH PERFORMANCE CLASS B (MOD. - FLY ASH) f_c 25 MPa

TRAFFIC MAINTENANCE:

- IS TRAFFIC TO BE MAINTAINED? YES IF YES, ON EXISTING STRUCTURE NO OR ON TEMPORARY BRIDGE NO
 WITHIN EXISTING PARKING LOTS
- TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY N/A TRAFFIC CONTROL SIGNALS REQUIRED N/A
 MINIMUM CLEAR SPAN (NORMAL TO STREAM): N/A VERTICAL CLEARANCE ABOVE STREAMBED: N/A
 WATERWAY OF FULL OPENING: N/A
 ARE SIDEWALKS REQUIRED? N/A IF SO, ON WHAT SIDE? N/A
 STRUCTURE TYPE: N/A

MATERIALS TOLERANCE TABLE

MATERIAL ITEM	TOLERANCE
BITUMINOUS CONCRETE SIDEWALK (MOD. - TEXTURED)**	+ 3mm
BITUMINOUS CONCRETE PAVEMENT	+ 5mm
SUBBASE OF CRUSHED GRAVEL (FINE GRADED)	+ 30mm



NOTE:

ALL DIMENSIONS SHOWN ON THIS SHEET ARE IN MILLIMETERS.

PLOTTED: 03/11/2004

DuBois & King inc.
 engineering planning management development

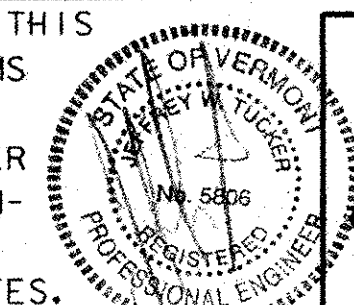
TOWN OF BRATTLEBORO
 BRATTLEBORO, VERMONT
 WHEISTONE BROOK PATHWAY PROJECT
 STP BINE (27) S
 PRELIMINARY INFORMATION SHEET

DRAWN BY SJB DATE FEB. 2004
 CHECKED BY JVB PROJ. NO. RI6544
 PROJ. ENG. JSA DRAW. NO. 11430
 SHEET 2 OF 30

QUANTITIES					
ITEM NO.	DESCRIPTION	UNIT	PARTICIPATING	NON-PARTICIPATING	TOTAL
201.10	CLEARING AND GRUBBING	LS	1		1
203.15	COMMON EXCAVATION	CM	720	170	890
203.16	SOLID ROCK EXCAVATION	CM	30		30
203.30	EARTH BORROW	CM	70	50	120
203.31	SAND BORROW	CM	60	35	95
204.30	GRANULAR BACKFILL FOR STRUCTURE	CM	180		180
210.10	COLD PLANING - BITUMINOUS PAVEMENT	SM	930		930
301.26	SUBBASE OF CRUSHED GRAVEL (FINE GRADED)	CM	410	30	440
404.65	EMULSIFIED ASPHALT	KG	165	220	385
406.25	BITUMINOUS CONCRETE PAVEMENT	MTON	310	250	560
501.34	CONCRETE, HIGH PERFORMANCE CLASS B	CM	50	2	52
507.15	REINFORCING STEEL	KG	4500		4500
507.16	DRILLING AND GROUTING DOWELS	M	15		15
514.10	WATER REPELLENT	L	15		15
516.10	BRIDGE EXPANSION JOINT (ASPHALTIC PLUG TYPE)	EA	2		2
526.50	RETAINING WALL (MOD. - PREFABRICATED MASONRY BLOCK WALL)	M	10		10
545.20	PREFABRICATED MULTI-MODAL BRIDGE	LS	1		1
601.0805	300mm RCP CLASS III	M	30		30
604.20	PRECAST REINFORCED CONCRETE CATCH BASIN W/ CAST IRON GRATE	EA	1		1
604.25	PRECAST REINFORCED CONCRETE PIPE DROP INLET W/ CAST IRON GRATE	EA	1		1
604.40	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS OR MANHOLES	EA	1		1
604.40	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS OR MANHOLES (MOD. - VAULT)	EA	1		1
608.25	ALL PURPOSE EXCAVATION RENTAL, TYPE I	HR	80		80
608.31	POWER BROOM RENTAL, TYPE II	HR	80		80
608.37	TRUCK RENTAL	HR	80		80
609.10	DUST CONTROL WITH WATER	CM	10		10
616.21	VERTICAL GRANITE CURB	M	220		220
616.21	VERTICAL GRANITE CURB (TREE PLANTER)	M	60		60
618.10	PORTLAND CEMENT CONCRETE SIDEWALK, 125mm	SM	15		15
618.11	PORTLAND CEMENT CONCRETE SIDEWALK, 200mm	SM	30		30
618.15	BITUMINOUS CONCRETE SIDEWALK (MOD - TEXTURED) (PG 58-28)	MTON	130		130
618.30	DETECTABLE WARNING SURFACE	SM	10		10
620.55	REMOVAL OF EXISTING FENCING	M	120		120
620.80	MISCELLANEOUS FENCE (MOD. - PREFAB. STEEL RAILING)	M	130		130
621.80	REMOVAL AND DISPOSAL OF GUARD RAIL	M	25		25
621.85	GUIDE POSTS (MOD. - BOLLARDS)	EA	2		2
621.85	GUIDE POSTS (MOD. - GRANITE BLOCKS)	EA	16		16
624.41	REPLACEMENT OF EXISTING METER SOCKET	EA	2		2
630.15	FLAGGERS	HR	100		100
631.16	TESTING EQUIPMENT - CONCRETE	LS	0.5	0.5	1
631.17	TESTING EQUIPMENT - BITUMINOUS	LS	0.5	0.5	1
635.10	MOBILIZATION	LS	0.5	0.5	1
641.10	TRAFFIC CONTROL	LS	1		1
646.40	DURABLE 100mm WHITE LINE	M	220	900	1120
646.41	DURABLE 100mm YELLOW LINE	M	20		20
646.46	DURABLE 600 mm STOP BAR	M	10		10
646.50	DURABLE LETTER OR SYMBOL	EA	4	5	9
646.60	TEMPORARY 100mm WHITE LINE	M	220		220
646.61	TEMPORARY 100mm YELLOW LINE	M	20		20
649.31	GEOTEXTILE UNDER STONE FILL	SM	130		130
651.15	SEED	KG	2		2
651.18	FERTILIZER	KG	15		15
651.20	AGRICULTURAL LIMESTONE	MTON	1		1
651.25	HAY MULCH	MTON	1		1
651.27	CEDAR BARK MULCH (COLOR SELECTED BY OWNER)	CM	25		25
651.35	TOPSOIL	CM	90		90
652.10	EROSION & SEDIMENT CONTROL PLAN	LS	1		1
652.20	MONITORING EROSION & SEDIMENT CONTROL PLAN	HR	40		40
652.30	FIELD MAINTENANCE OF EROSION & SEDIMENT CONTROL PLAN	LU	1		1
654.10	EROSION MATTING	SM	1200		1200
656.20	EVERGREEN TREES (TAXUS X M. DESIFORMIS)	EA	1		1
656.30	DECIDUOUS TREES (FREMANII MAPLE)	EA	3		3
656.30	DECIDUOUS TREES (ULMUS PARVAFOLIA "ATHENA")	EA	1		1
656.35	DECIDUOUS SHRUBS (COMPTONIA - SWEETFERN)	EA	25		25
656.35	DECIDUOUS SHRUBS (DEUTZIA GRACILIS "NIKKO")	EA	1		1
656.40	GROUND COVERS AND VINES (DAYLILIES - STELLA D'ORO)	EA	100		100
656.40	GROUND COVERS AND VINES (ORNAMENTAL GRASS)	EA	20		20
656.40	GROUND COVERS AND VINES (TINKERBELL LILACS)	EA	70		70
658.20	REST AREA BENCH	EA	5		5
658.20	REST AREA BENCH (BENCH WITHOUT BACK)	EA	4		4
675.20	TRAFFIC SIGNS, TYPE A	SM	1		1
675.301	FLANGED CHANNEL SIGN POST	M	6		6
675.33	TUBULAR STEEL SIGN POSTS (MOD)	KG	50		50
675.50	REMOVING SIGNS	EA	20		20
675.60	ERECTING SALVAGED SIGNS	EA	16		16

[illegible]

ALL PARTICIPATING QUANTITIES ARE BEING PAID BY THIS PROJECT. NON-PARTICIPATING QUANTITIES ARE ITEMS INSTALLED/REPLACED OR OTHERWISE CONSTRUCTED DURING THIS PROJECT THAT ARE BEING PAID BY OTHER PROJECTS OR THE TOWN. FOR A DESCRIPTION OF NON-PARTICIPATING WORK, SEE SHEET 13 AND 19, BAST PARKING LOT IMPROVEMENT (NON-PARTICIPATING) NOTES.

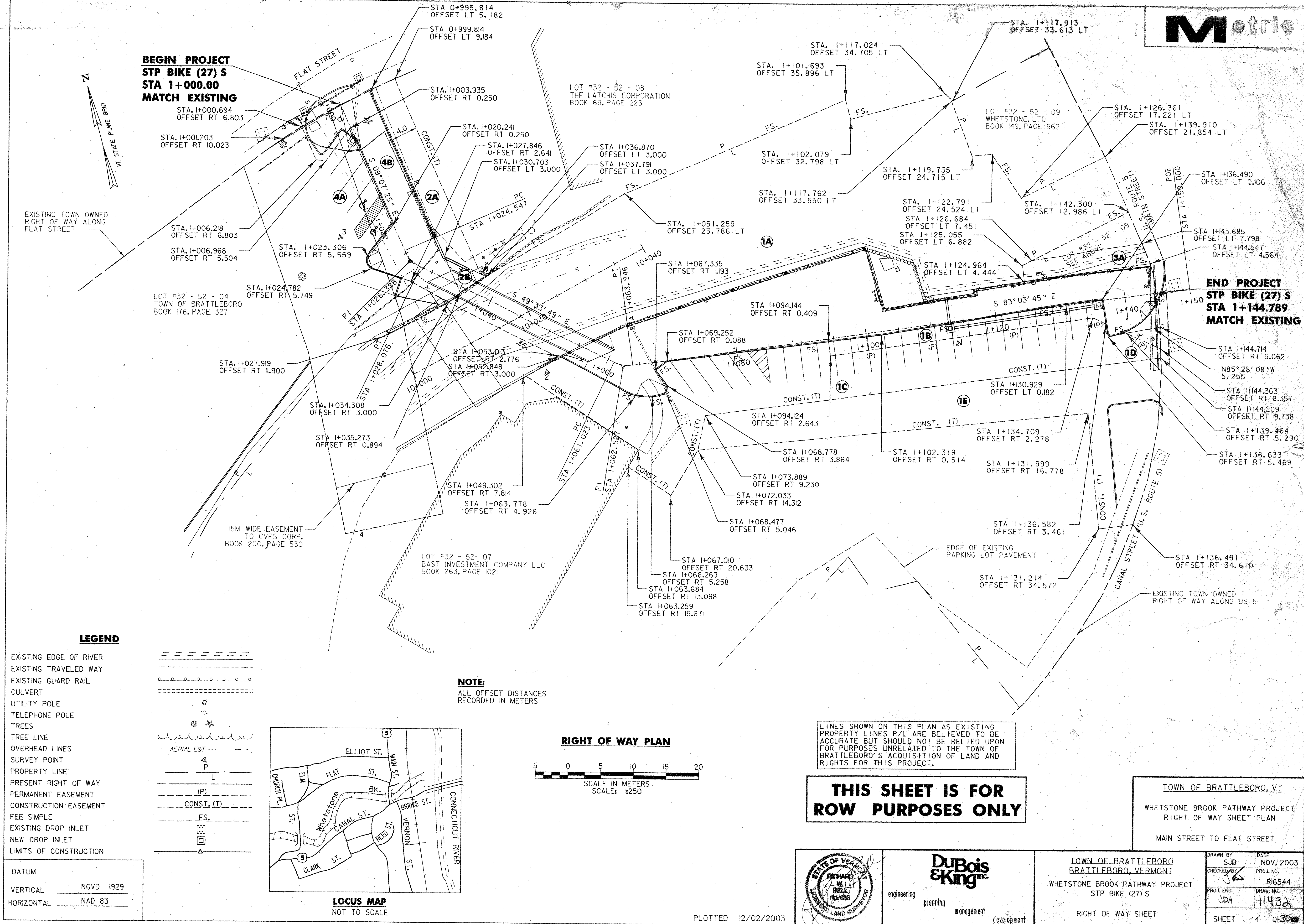


**DuBois
& King inc.**

planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
QUANTITY SHEET

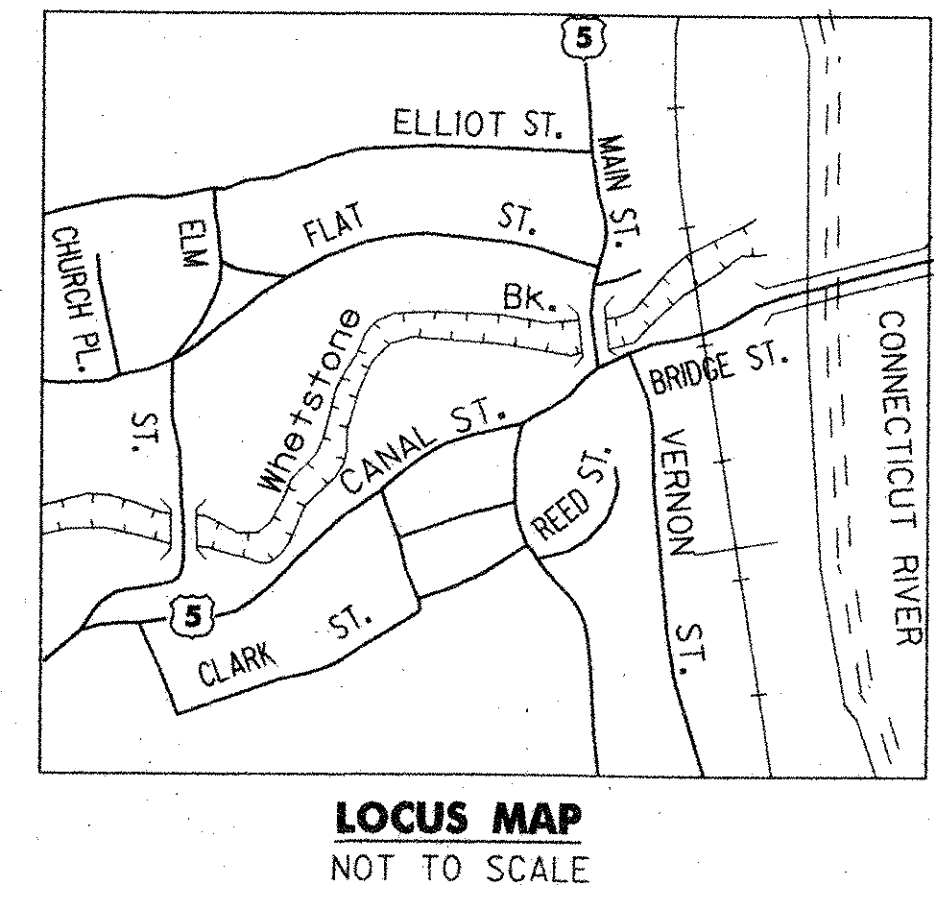
DRAWN BY SJB	DATE FEB. 2004
CHECKED BY JW	PROJ. NO. RI6544
PROJ. ENG. JDA	DRAW. NO. 11431
SHEET 3 OF 30	



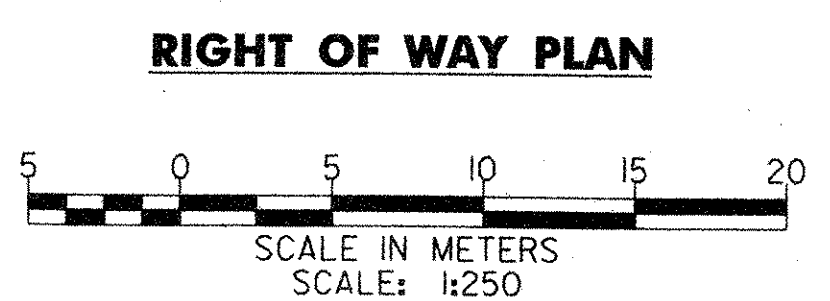
LEGEND

EXISTING EDGE OF RIVER
 EXISTING TRAVELED WAY
 EXISTING GUARD RAIL
 CULVERT
 UTILITY POLE
 TELEPHONE POLE
 TREES
 TREE LINE
 OVERHEAD LINES
 SURVEY POINT
 PROPERTY LINE
 PRESENT RIGHT OF WAY
 PERMANENT EASEMENT
 CONSTRUCTION EASEMENT
 FEE SIMPLE
 EXISTING DROP INLET
 NEW DROP INLET
 LIMITS OF CONSTRUCTION

DATUM
 VERTICAL NGVD 1929
 HORIZONTAL NAD 83



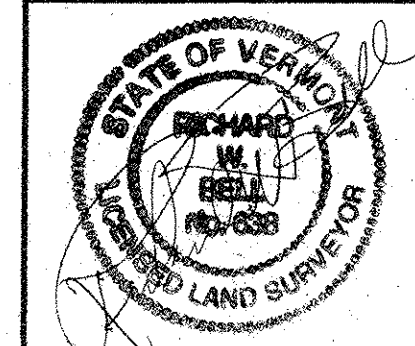
NOTE:
 ALL OFFSET DISTANCES
 RECORDED IN METERS



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

**THIS SHEET IS FOR
 ROW PURPOSES ONLY**

TOWN OF BRATTLEBORO, VT
 WHETSTONE BROOK PATHWAY PROJECT
 RIGHT OF WAY SHEET PLAN
 MAIN STREET TO FLAT STREET



DuBois & King Inc.
 engineering planning management development

TOWN OF BRATTLEBORO
 BRATTLEBORO, VERMONT
 WHETSTONE BROOK PATHWAY PROJECT
 STP BIKE (27) S
 RIGHT OF WAY SHEET

DRAWN BY SJB
 CHECKED BY JLB
 PROJ. NO. R16544
 DATE NOV. 2003
 SHEET 4 OF 30

RIGHT OF WAY PLAN
DETAIL SHEET



TABLE OF PROJECT PROPERTY ACQUISITION

ALL STATIONS ARE FROM THE REVISED Q

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
1A	BAST INVESTMENT COMPANY LLC	4	I+034.308 RT	I+144.789 <u>Q</u>	2613,340 sq. m		FEE SIMPLE												
1B	BAST INVESTMENT COMPANY LLC	4	I+094.124 RT	I+136.582 RT	97,331 sq. m		DRAINAGE (P)												
1C	BAST INVESTMENT COMPANY LLC	4	I+049.302 RT	I+144.363 RT	771,474 sq. m		CONSTRUCTION TEMPORARY												
1D	BAST INVESTMENT COMPANY LLC	4	I+139.464 RT	I+144.714 RT	8,364 sq. m		DRAINAGE (P)												
1E	BAST INVESTMENT COMPANY LLC	4	I+072.033 RT	I+144.209 RT	598,478 sq. m		CONSTRUCTION TEMPORARY												
2A	THE LATCHIS CORPORATION	4	0+999.814 LT	I+036.870 LT	121,505 sq. m		CONSTRUCTION TEMPORARY												
2B	THE LATCHIS CORPORATION	4	I+030.703 LT	I+037.791 LT	13,400 sq. m		FEE SIMPLE												
3A	WHETSTONE, LTD	4	I+124.964 LT	I+144.547 LT	58,939 sq. m		CONSTRUCTION TEMPORARY												
4A	TOWN OF BRATTLEBORO	4	I+000.694 RT	I+034.308 RT	246,664 sq. m		CONSTRUCTION TEMPORARY												
4B	TOWN OF BRATTLEBORO	4	0+999.814 LT	I+035.273 RT	246,632 sq. m		INSTALL AND MAINTAIN PATHWAY (P)												

engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
MAIN STREET TO FLAT STREET

DRAWN BY	SJB	DATE	NOV. 2003
CHECKED BY	<i>[Signature]</i>	PROJ. NO.	R16544
PROJ. ENG.	JDA	DRAW. NO.	11433
SHEET		5 OF 30	

PLOTTED 12/02/2003

**BEGIN PROJECT
STP BIKE (27) S
STA 1+000.00
(MATCH EXISTING)**

**END PROJECT
STP BIKE (27) S
STA 1+146.725
(MATCH EXISTING)**

**BEGIN BRIDGE
STA 1+031.400**

**END BRIDGE
STA 1+058.832**

BENCH MARK NO. 1
BM K-51
1970
EL. 78.233
This BM Removed in Wallpaper Brass Diskcut To GCS

BENCH MARK NO. 2
CHISELED SQUARE TOP
OF CONCRETE WALL
EL. 77.892

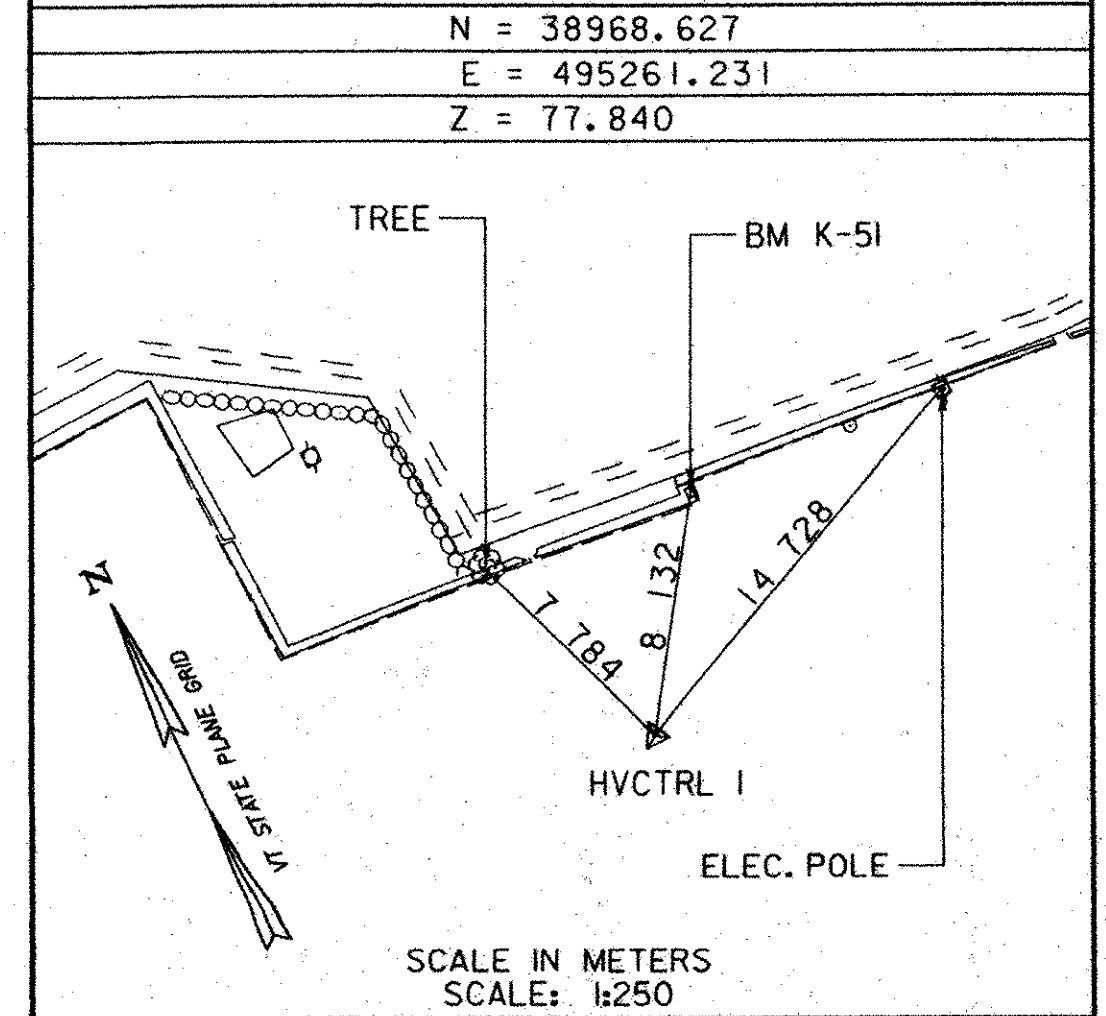
CURVE DATA

CURVE NO. 1	CURVE NO. 2
$\Delta = 40^\circ 26' 22''$	$\Delta = 33^\circ 29' 57''$
R = 5.000	R = 5.000
T = 1.842	T = 1.505
L = 3.529	L = 2.923
E = 0.328	E = 0.222
2T-L = 0.155	2T-L = 0.087

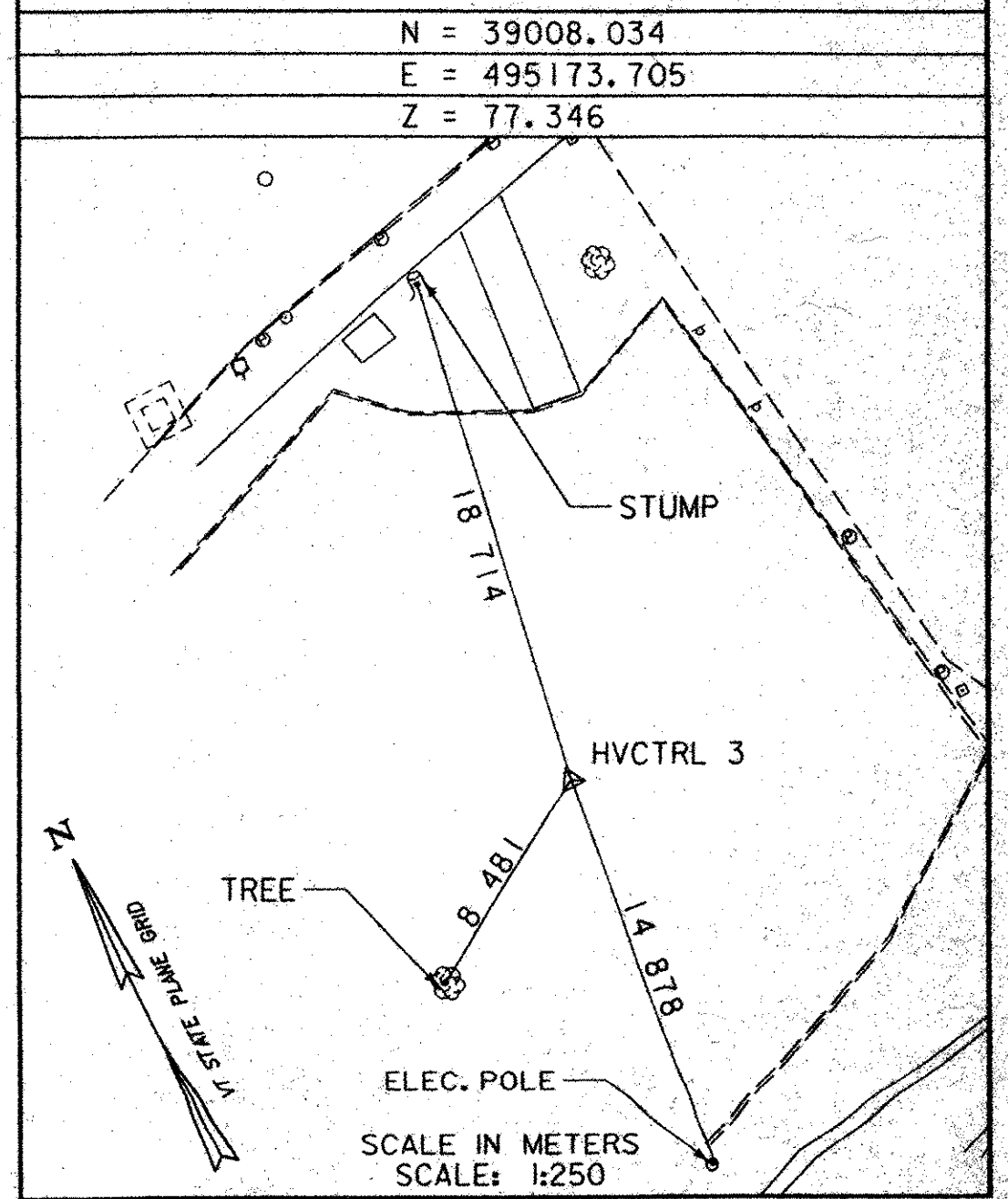
LAYOUT COORDINATES

STA. 1+000.000	BEGIN PROJECT	N 39027.811	E 495178.856
STA. 1+024.547	PC	N 39003.575	E 495182.749
STA. 1+026.388	PI	N 39001.757	E 495183.041
STA. 1+028.076	PT	N 39000.562	E 495184.442
STA. 1+031.400	BEGIN BRIDGE	N 38998.406	E 495186.973
STA. 1+058.832	END BRIDGE	N 38980.614	E 495207.852
STA. 1+061.023	PC	N 38979.193	E 495209.519
STA. 1+062.527	PI	N 38978.217	E 495210.665
STA. 1+063.946	PT	N 38978.035	E 495212.158
STA. 1+146.725	END PROJECT	N 38968.037	E 495294.331
CONTROL POINT	HVCTRL #1	N 38968.627	E 495261.231
CONTROL POINT	HVCTRL #2	N 38980.296	E 495199.168
CONTROL POINT	HVCTRL #3	N 39008.034	E 495173.705

HVCTRL # 1



HVCTRL # 3

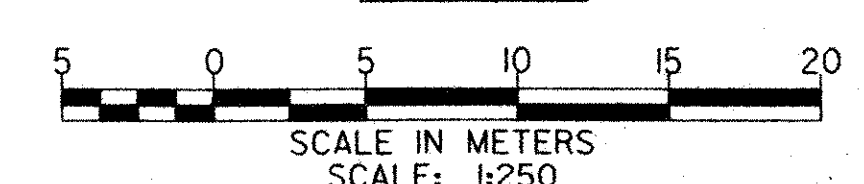


LEGEND

- EXISTING**
- EDGE OF PAVEMENT
 - EDGE OF BROOK
 - BUILDING
 - TREE
 - UTILITY POLE
 - MANHOLE
 - PARKING METER
 - SIGN
 - CULVERT
 - CATCH BASIN
 - RIGHT OF WAY LINE
 - STONE WALL
 - SEWER LINE
 - TIE POINT

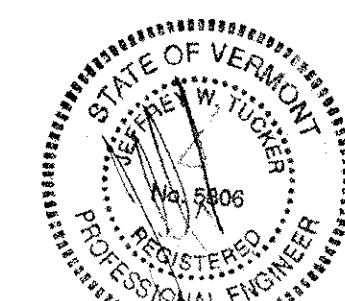
DATUM
VERTICAL NVD 88
HORIZONTAL NAD 83

TIE SHEET



NOTES:

- STATIONS ARE GIVEN IN KILOMETERS. ELEVATIONS AND CURVE DATA INFORMATION ARE GIVEN IN METERS. ALL DIMENSIONS ARE IN MILLIMETERS.
- HORIZONTAL DISTANCE FROM THE BASE LINE TO THE BOTTOM FACE OF THE CURB (PARKING LOT SIDE) AS SHOWN ON TABLE 1, SHEET 24.



PLOTTED: 03/11/2004

DuBois & King

engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
TIE SHEET

DRAWN BY: SJB
CHECKED BY: JUT
PROJ. NO.: R16544
DRAW. NO.: 11434
SHEET 6 OF 30

**END PROJECT
STP BIKE (27) S
STA 1+146.725
(MATCH EXISTING)**

INSTALL NEW
DROP INLET

EXISTING CURB WITHIN
PROJECT AREA TO BE REMOVED

INSTALL SIDEWALK RAMP
TYPE 5, SEE VTRANS STD. C-3A.

SEE BROOKSIDE PLAZA &
U.S. ROUTE 5 DETAIL
LAYOUT SHEET, SHEET
15, FOR DETAILS.

INSTALL SIDEWALK RAMP
TYPE 1, SEE VTRANS STD. C-3A.

CURBED ISLAND TO BE
TOPSOILED, FERTILIZED
AND SEED.

APPROXIMATE LOCATION OF
EXISTING CATCH BASIN
INSTALL NEW SIDEWALK
TO MATCH EXISTING

DURABLE 100mm WHITE LINE
STA. 1+135.298, 12.376 RT - STA. 1+143.093, 12.391 RT
DURABLE 600mm STOP BAR
STA. 1+143.971, 8.973 RT - STA. 1+143.129, 16.384 RT
**MISCELLANEOUS FENCES
(MOD. - PREFAB. STEEL RAILING)**
STA. 1+029.963, 2.188 RT - STA. 1+033.127, 4.104 RT
STA. 1+033.498, 2.026 LT - STA. 1+034.844, 2.740 LT
STA. 1+051.193, 5.615 RT - STA. 1+056.323, 1.866 RT
STA. 1+059.670, 1.856 LT - STA. 1+144.476, 4.168 LT

**REMOVAL & DISPOSAL OF
EXISTING GUARDRAIL**
STA. 1+050.179, 7.818 RT - STA. 1+060.709, 5.812 LT
CHANGING ELEVATION OF CB
STA. 1+070.459, 9.595 RT
300mm RCP, CLASS III
STA. 1+12.820, 3.755 LT - STA. 1+12.891, 0.335 RT
STA. 1+13.517, 0.929 RT - STA. 1+13.166, 0.593 RT

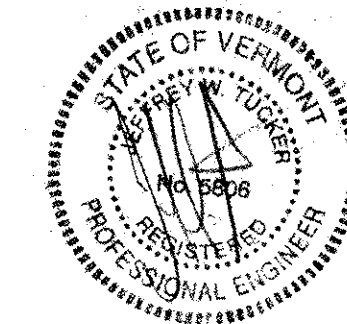
PRECAST CONCRETE DROP INLET
STA. 1+135.776, 0.601 RT
PRECAST CONCRETE CATCH BASIN
STA. 1+12.909, 0.944 RT
VERTICAL GRANITE CURB
STA. 1+000.000 LT - STA. 1+028.076 LT
STA. 1+005.040 RT - STA. 1+027.323 RT
STA. 1+053.369 RT - STA. 1+146.723 RT
STA. 1+134.365 RT - STA. 1+143.226 RT

GUIDE POST (MOD. - BOLLARD)
STA. 1+101.826, 6.051 LT
STA. 1+102.036, 4.558 LT
**NEW VERTICAL GRANITE
PLANTER (14m x 1.5m)**
STA. 1+091.235, 0.529 LT

DRAWN BY SJB	DATE FEB. 2004
CHECKED BY JDA	PROJ. NO. R16544
PROJ. ENG. JDA	DRAW. NO. 11435
SHEET 7	OF 30

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
PLAN SHEET

DuBois & King
engineering planning management development



PLOTTED: 03/11/2004

REST AREA BENCH
STA. 1+028.284, 3.847 LT STA. 1+100.681, 5.617 LT
STA. 1+069.933, 6.150 LT STA. 1+122.207, 3.330 LT
STA. 1+086.752, 9.226 LT STA. 1+128.761, 3.477 LT
STA. 1+094.747, 10.702 LT STA. 1+136.027, 3.282 LT
STA. 1+100.558, 11.138 LT
**GUIDE POST
(MOD. - GRANITE BLOCK)**
STA. 1+007.566, 0.900 LT STA. 1+109.187, 0.557 LT
STA. 1+010.717, 0.900 LT STA. 1+111.788, 0.621 LT
STA. 1+013.709, 0.900 LT STA. 1+116.991, 0.748 LT
STA. 1+018.284, 0.900 LT STA. 1+119.592, 0.811 LT
STA. 1+074.175, 0.751 LT STA. 1+124.794, 0.938 LT
STA. 1+077.144, 0.713 LT STA. 1+127.394, 1.001 LT
STA. 1+101.418, 0.401 LT STA. 1+132.629, 1.064 LT
STA. 1+103.985, 0.430 LT STA. 1+135.229, 1.029 LT
**PORTLAND CEMENT CONCRETE
SIDEWALK 125mm**
STA. 1+142.646, 17.754 RT - STA. 1+138.825, 25.032 RT

INSTALL NEW
300 RCP, CLASS III
REMOVE 15±
METER LENGTH OF
EXISTING CONCRETE WALL.
PLACE NEW CAST IN PLACE,
REINFORCED CONCRETE WALL.
SEE SHEET 12 FOR DETAILS.
STA. 1+108.611 - STA. 1+117.604
1+103±
EXISTING PAVEMENT
TO BE REMOVED
NEW BITUMINOUS CONCRETE
SIDEWALK (MOD. - TEXTURED)

INSTALL NEW
300 RCP, CLASS III
INSTALL NEW
CATCH BASIN
INSTALL NEW GUIDE POSTS
(MOD. - BOLLARD) (TYP.)
SEE SHEET 22 FOR DETAILS
NEW GUIDE POSTS
(MOD. - GRANITE BLOCK) (TYP.)
SEE GRANITE BLOCK NOTES,
SHEET 22.
NEW PLANTER, SEE SHEET 23
FOR DETAIL (TYP.)
PAY LIMITS OF WHETSTONE PATHWAY PROJECT
PARTICIPATING ITEMS

INSTALL NEW
300 RCP, CLASS III
INSTALL NEW
CATCH BASIN
INSTALL NEW GUIDE POSTS
(MOD. - BOLLARD) (TYP.)
SEE SHEET 22 FOR DETAILS
NEW GUIDE POSTS
(MOD. - GRANITE BLOCK) (TYP.)
SEE GRANITE BLOCK NOTES,
SHEET 22.
NEW PLANTER, SEE SHEET 23
FOR DETAIL (TYP.)
PAY LIMITS OF WHETSTONE PATHWAY PROJECT
PARTICIPATING ITEMS

INSTALL NEW
300 RCP, CLASS III
INSTALL NEW
CATCH BASIN
INSTALL NEW GUIDE POSTS
(MOD. - BOLLARD) (TYP.)
SEE SHEET 22 FOR DETAILS
NEW GUIDE POSTS
(MOD. - GRANITE BLOCK) (TYP.)
SEE GRANITE BLOCK NOTES,
SHEET 22.
NEW PLANTER, SEE SHEET 23
FOR DETAIL (TYP.)
PAY LIMITS OF WHETSTONE PATHWAY PROJECT
PARTICIPATING ITEMS

INSTALL NEW
300 RCP, CLASS III
INSTALL NEW
CATCH BASIN
INSTALL NEW GUIDE POSTS
(MOD. - BOLLARD) (TYP.)
SEE SHEET 22 FOR DETAILS
NEW GUIDE POSTS
(MOD. - GRANITE BLOCK) (TYP.)
SEE GRANITE BLOCK NOTES,
SHEET 22.
NEW PLANTER, SEE SHEET 23
FOR DETAIL (TYP.)
PAY LIMITS OF WHETSTONE PATHWAY PROJECT
PARTICIPATING ITEMS

EXISTING FENCE ON TOP OF RETAINING WALL TO BE
REMOVED AND REPLACED WITH NEW MISCELLANEOUS
FENCE (MOD. - PREFAB STEEL RAILING) (TYP.)
NOTCH EXISTING WALL (TYP.)
SEE NOTE 6, THIS SHEET.
INSTALL NEW
300 RCP, CLASS III
REMOVE 15±
METER LENGTH OF
EXISTING CONCRETE WALL.
PLACE NEW CAST IN PLACE,
REINFORCED CONCRETE WALL.
SEE SHEET 12 FOR DETAILS.
STA. 1+108.611 - STA. 1+117.604
1+103±
EXISTING PAVEMENT
TO BE REMOVED
NEW BITUMINOUS CONCRETE
SIDEWALK (MOD. - TEXTURED)

EXISTING TREE TO
BE REMOVED
APPROXIMATE LIMITS
OF CONSTRUCTION
NEW PLANTER, SEE
SHEET 23 FOR DETAIL
(TYP.)
NOTCH EXISTING WALL (TYP.)
SEE NOTE 6, THIS SHEET.
INSTALL NEW
300 RCP, CLASS III
REMOVE 15±
METER LENGTH OF
EXISTING CONCRETE WALL.
PLACE NEW CAST IN PLACE,
REINFORCED CONCRETE WALL.
SEE SHEET 12 FOR DETAILS.
STA. 1+108.611 - STA. 1+117.604
1+103±
EXISTING PAVEMENT
TO BE REMOVED
NEW BITUMINOUS CONCRETE
SIDEWALK (MOD. - TEXTURED)

EXISTING FENCE ON TOP OF RETAINING WALL TO BE
REMOVED AND REPLACED WITH NEW MISCELLANEOUS
FENCE (MOD. - PREFAB STEEL RAILING) (TYP.)
NOTCH EXISTING WALL (TYP.)
SEE NOTE 6, THIS SHEET.
INSTALL NEW
300 RCP, CLASS III
REMOVE 15±
METER LENGTH OF
EXISTING CONCRETE WALL.
PLACE NEW CAST IN PLACE,
REINFORCED CONCRETE WALL.
SEE SHEET 12 FOR DETAILS.
STA. 1+108.611 - STA. 1+117.604
1+103±
EXISTING PAVEMENT
TO BE REMOVED
NEW BITUMINOUS CONCRETE
SIDEWALK (MOD. - TEXTURED)

EXISTING FENCE ON TOP OF RETAINING WALL TO BE
REMOVED AND REPLACED WITH NEW MISCELLANEOUS
FENCE (MOD. - PREFAB STEEL RAILING) (TYP.)
NOTCH EXISTING WALL (TYP.)
SEE NOTE 6, THIS SHEET.
INSTALL NEW
300 RCP, CLASS III
REMOVE 15±
METER LENGTH OF
EXISTING CONCRETE WALL.
PLACE NEW CAST IN PLACE,
REINFORCED CONCRETE WALL.
SEE SHEET 12 FOR DETAILS.
STA. 1+108.611 - STA. 1+117.604
1+103±
EXISTING PAVEMENT
TO BE REMOVED
NEW BITUMINOUS CONCRETE
SIDEWALK (MOD. - TEXTURED)

EXISTING FENCE ON TOP OF RETAINING WALL TO BE
REMOVED AND REPLACED WITH NEW MISCELLANEOUS
FENCE (MOD. - PREFAB STEEL RAILING) (TYP.)
NOTCH EXISTING WALL (TYP.)
SEE NOTE 6, THIS SHEET.
INSTALL NEW
300 RCP, CLASS III
REMOVE 15±
METER LENGTH OF
EXISTING CONCRETE WALL.
PLACE NEW CAST IN PLACE,
REINFORCED CONCRETE WALL.
SEE SHEET 12 FOR DETAILS.
STA. 1+108.611 - STA. 1+117.604
1+103±
EXISTING PAVEMENT
TO BE REMOVED
NEW BITUMINOUS CONCRETE
SIDEWALK (MOD. - TEXTURED)

EXISTING FENCE ON TOP OF RETAINING WALL TO BE
REMOVED AND REPLACED WITH NEW MISCELLANEOUS
FENCE (MOD. - PREFAB STEEL RAILING) (TYP.)
NOTCH EXISTING WALL (TYP.)
SEE NOTE 6, THIS SHEET.
INSTALL NEW
300 RCP, CLASS III
REMOVE 15±
METER LENGTH OF
EXISTING CONCRETE WALL.
PLACE NEW CAST IN PLACE,
REINFORCED CONCRETE WALL.
SEE SHEET 12 FOR DETAILS.
STA. 1+108.611 - STA. 1+117.604
1+103±
EXISTING PAVEMENT
TO BE REMOVED
NEW BITUMINOUS CONCRETE
SIDEWALK (MOD. - TEXTURED)

EXISTING FENCE ON TOP OF RETAINING WALL TO BE
REMOVED AND REPLACED WITH NEW MISCELLANEOUS
FENCE (MOD. - PREFAB STEEL RAILING) (TYP.)
NOTCH EXISTING WALL (TYP.)
SEE NOTE 6, THIS SHEET.
INSTALL NEW
300 RCP, CLASS III
REMOVE 15±
METER LENGTH OF
EXISTING CONCRETE WALL.
PLACE NEW CAST IN PLACE,
REINFORCED CONCRETE WALL.
SEE SHEET 12 FOR DETAILS.
STA. 1+108.611 - STA. 1+117.604
1+103±
EXISTING PAVEMENT
TO BE REMOVED
NEW BITUMINOUS CONCRETE
SIDEWALK (MOD. - TEXTURED)

EXISTING FENCE ON TOP OF RETAINING WALL TO BE
REMOVED AND REPLACED WITH NEW MISCELLANEOUS
FENCE (MOD. - PREFAB STEEL RAILING) (TYP.)
NOTCH EXISTING WALL (TYP.)
SEE NOTE 6, THIS SHEET.
INSTALL NEW
300 RCP, CLASS III
REMOVE 15±
METER LENGTH OF
EXISTING CONCRETE WALL.
PLACE NEW CAST IN PLACE,
REINFORCED CONCRETE WALL.
SEE SHEET 12 FOR DETAILS.
STA. 1+108.611 - STA. 1+117.604
1+103±
EXISTING PAVEMENT
TO BE REMOVED
NEW BITUMINOUS CONCRETE
SIDEWALK (MOD. - TEXTURED)

EXISTING FENCE ON TOP OF RETAINING WALL TO BE
REMOVED AND REPLACED WITH NEW MISCELLANEOUS
FENCE (MOD. - PREFAB STEEL RAILING) (TYP.)
NOTCH EXISTING WALL (TYP.)
SEE NOTE 6, THIS SHEET.
INSTALL NEW
300 RCP, CLASS III
REMOVE 15±
METER LENGTH OF
EXISTING CONCRETE WALL.
PLACE NEW CAST IN PLACE,
REINFORCED CONCRETE WALL.
SEE SHEET 12 FOR DETAILS.
STA. 1+108.611 - STA. 1+117.604
1+103±
EXISTING PAVEMENT
TO BE REMOVED
NEW BITUMINOUS CONCRETE
SIDEWALK (MOD. - TEXTURED)

EXISTING FENCE ON TOP OF RETAINING WALL TO BE
REMOVED AND REPLACED WITH NEW MISCELLANEOUS
FENCE (MOD. - PREFAB STEEL RAILING) (TYP.)
NOTCH EXISTING WALL (TYP.)
SEE NOTE 6, THIS SHEET.
INSTALL NEW
300 RCP, CLASS III
REMOVE 15±
METER LENGTH OF
EXISTING CONCRETE WALL.
PLACE NEW CAST IN PLACE,
REINFORCED CONCRETE WALL.
SEE SHEET 12 FOR DETAILS.
STA. 1+108.611 - STA. 1+117.604
1+103±
EXISTING PAVEMENT
TO BE REMOVED
NEW BITUMINOUS CONCRETE
SIDEWALK (MOD. - TEXTURED)

EXISTING FENCE ON TOP OF RETAINING WALL TO BE
REMOVED AND REPLACED WITH NEW MISCELLANEOUS
FENCE (MOD. - PREFAB STEEL RAILING) (TYP.)
NOTCH EXISTING WALL (TYP.)
SEE NOTE 6, THIS SHEET.
INSTALL NEW
300 RCP, CLASS III
REMOVE 15±
METER LENGTH OF
EXISTING CONCRETE WALL.
PLACE NEW CAST IN PLACE,
REINFORCED CONCRETE WALL.
SEE SHEET 12 FOR DETAILS.
STA. 1+108.611 - STA. 1+117.604
1+103±
EXISTING PAVEMENT
TO BE REMOVED
NEW BITUMINOUS CONCRETE
SIDEWALK (MOD. - TEXTURED)

- NOTES:**
- THE CONTRACTOR SHALL MATCH THE ELEVATION OF THE BACK OF THE EXISTING SIDEWALK ALONG FLAT STREET AND MAIN STREET.
 - ALL EXISTING PAVEMENT THAT IS LOCATED WITHIN THE LIMITS OF THE CURBED PATHWAY IS TO BE REMOVED. PAYMENT FOR THIS WORK SHALL BE PAID UNDER ITEM 203.15, "COMMON EXCAVATION".
 - STATIONS OF PLANTERS AND BENCHES GIVEN ARE TO THE CENTER OF EACH.
 - STATIONS ARE GIVEN IN KILOMETERS, OFFSETS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.
 - NEW SIDEWALK RAMPS TO INCLUDE TRUNCATED DOMES (I.E. DETECTABLE WARNINGS) COMPLIANT WITH THE VERMONT PEDESTRIAN AND BICYCLE FACILITY PLANNING AND DESIGN MANUAL DATED DECEMBER 2002. RAMPS AND TRUNCATED DOMES SHALL COMPLY WITH VTRANS STD. C-3A. TRUNCATED DOMES ARE TO BE PAID FOR UNDER ITEM 618.30, "DETECTABLE WARNING SURFACE".
 - NOTCHES TO EXISTING WALL ARE TO PROVIDE FOR POSITIVE DRAINAGE. ALL NOTCHES TO BE 125mm WIDE. THE BOTTOM OF ALL THE NOTCHES SHALL BE AT FINISHED GRADE. NOTCHING TO BE PAID UNDER ITEM 203.16, "SOLID ROCK EXCAVATION".
 - THE FOUR BENCHES ALONG THE WIDER PORTION OF PATHWAY ARE TO BE WITHOUT BACKS. SEE SHEET 21 FOR DETAILS. FINAL LOCATION OF THE BENCHES TO BE DETERMINED IN THE FIELD AND APPROVED BY THE TOWN.
 - NEW BITUMINOUS CONCRETE SIDEWALK (MOD. - TEXTURED) SHALL BE STREETPRINT'S OFFSET BRICK STYLE AND BRICK COLOR.
 - SEE SHEET 13 NOTES FOR A DESCRIPTION OF IMPROVEMENTS TO THE BAST PARKING LOT OUTSIDE OF THE LIMITS OF CONSTRUCTION FOR THIS PROJECT.

SITE PLAN
SCALE IN METERS
SCALE: 1:250

APPROXIMATE LOCATION
OF EXISTING TEMPORARY
BRIDGE TO BE REMOVED
BY THE TOWN.

LEGEND

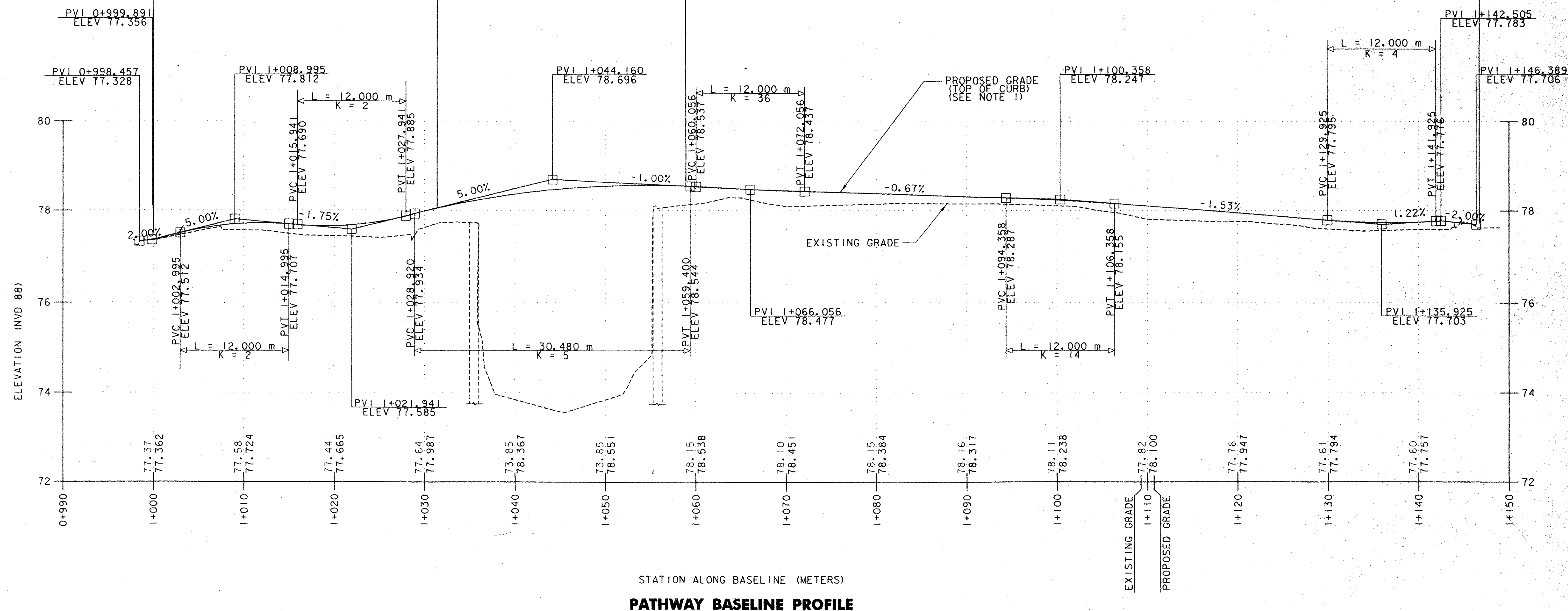
EXISTING	PROPOSED
-----	EDGE OF PAVEMENT
=====	EDGE OF BROOK
	BUILDING
▲	TIE POINT
✕	TREE
⌒	STUMP
⊕	UTILITY POLE
⊙	MANHOLE
⊖	SIGN
=====	CULVERT
-----	ROW LINE
-----	STONE WALL
-----	SEWER LINE
-----	AERIAL E&T
-----	AERIAL E+T
DATUM	
VERTICAL	NVD 88
HORIZONTAL	NAD 83
-----	SIGN
=====	CULVERT
-----	ROW LINE
-----	STONE WALL
-----	SEWER LINE
-----	AERIAL E&T
-----	AERIAL E+T
DATUM	
VERTICAL	NVD 88
HORIZONTAL	NAD 83
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VERTICAL	NVD 88
HORIZONTAL	NAD 83
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DATUM	
VERTICAL	NVD 88
HORIZONTAL	NAD 83
-----	SIGN
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DATUM	
VERTICAL	NVD 88
HORIZONTAL	NAD 83
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-----	SEWER LINE
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-----	AERIAL E+T
DATUM	
VERTICAL	NVD 88
HORIZONTAL	NAD 83
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-----	ROW LINE
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DATUM	
VERTICAL	NVD 88
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-----	AERIAL E&T
-----	AERIAL E+T
DATUM	
VERTICAL	NVD 88
HORIZONTAL	NAD 83
-----	SIGN
=====	CULVERT
-----	ROW LINE
-----	STONE WALL
-----	SEWER LINE

**BEGIN PROJECT
STP BIKE (27) S
STA. 1+000.000
(MATCH EXISTING)**

**STA. 1+031.400
BEGIN BRIDGE
FG. ELEV. = 78.052**

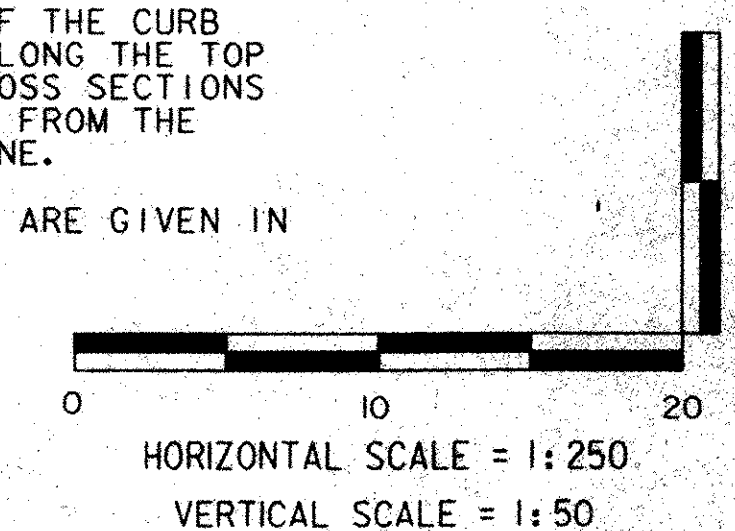
**STA. 1+058.832
END BRIDGE
FG. ELEV. = 78.549**

**END PROJECT
STP BIKE (27) S
STA. 1+146.725
(MATCH EXISTING)**



NOTES:

1. FOR LOCATIONS WHERE THE BASELINE IS AT THE BOTTOM FACE OF THE CURB (PARKING LOT SIDE), PROPOSED GRADE SHOWN ON PROFILE IS ALONG THE TOP OF CURB. SEE TYPICAL SECTIONS ON SHEET 2 AND PATHWAY CROSS SECTIONS FOR DETAILS. TABLE 1 ON SHEET 24 SHOWS OFFSET DISTANCES FROM THE BOTTOM FACE OF THE CURB (PARKING LOT SIDE) TO THE BASELINE.
2. STATIONS ARE GIVEN IN KILOMETERS, ELEVATIONS AND LENGTHS ARE GIVEN IN METERS.



DATUM
VERTICAL NVD 88
HORIZONTAL NAD 83



PLOTTED: 03/11/2004

DuBois & King engineering planning management development	TOWN OF BRATTLEBORO BRATTLEBORO, VERMONT		DRAWN BY SJB	DATE FEB. 2004
	WHETSTONE BROOK PATHWAY PROJECT STP BIKE (27) S		CHECKED BY [Signature]	PROJ. NO. R16544
	PROFILE SHEET		PROJ. ENG. JDA	DRAW. NO. 11436
			SHEET 8	OF 30

SOIL CLASSIFICATIONAASHTO

A1	Gravel and Sand
A3	Fine Sand
A2	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

ROCK QUALITY DESIGNATION

R.Q.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH IN kPa	CONSISTENCY
<12	Very Soft
12-24	Soft
24-48	Med. Stiff
48-96	Stiff
96-192	Very Stiff
>192	Hard

CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

DEFINITIONS (AASHTO)

BEDROCK (LEDGE) - Rock in its native location of indefinite thickness.

BOULDER - A rock fragment with an average dimension > 304.8 mm.

COBBLE - Rock fragments with an average dimension between 76.2 and 304.8 mm.

GRAVEL - Rounded particles of rock < 76.2 mm and > 2 mm (#10 sieve).

SAND - Particles of rock < 2 mm (#10 sieve) and > 75 μ m (#200 sieve).

SILT - Soil < 75 μ m (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.

CLAY - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.

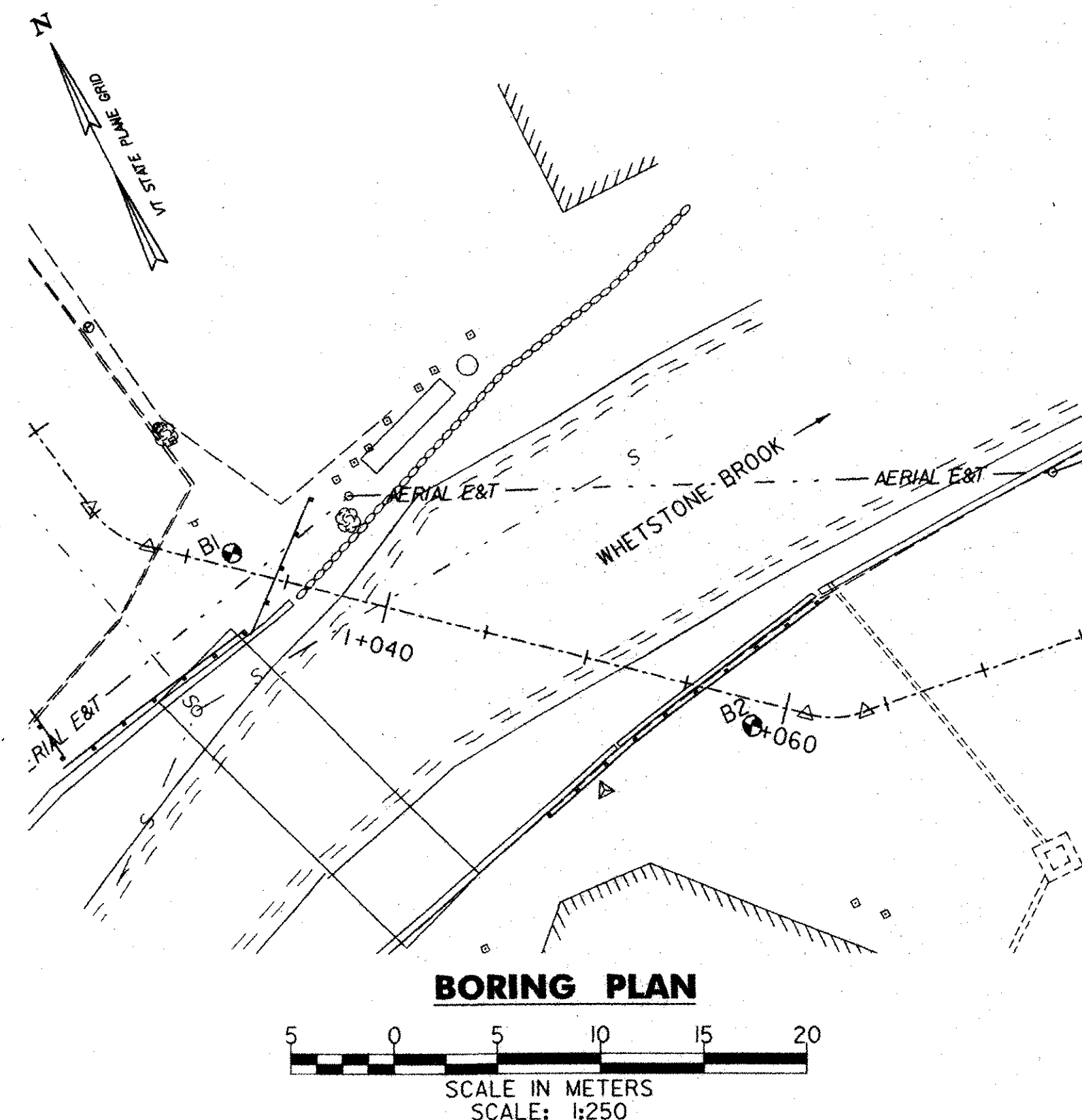
COMMONLY USED SYMBOLS

▼	Water Elevation
⊙	Standard Penetration Boring
⊕	Auger Boring
⊖	Rod Sounding
S	Sample
N	Standard Penetration Test
	Blow Count Per 300 mm For:
	50.8 mm O.D. Sampler
	35.0 mm I.D. Sampler
	Hammer Weight Of 63.5 kg.
	Hammer Fall Of 762 mm
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HSA	Hollow Stem Auger
AX	Core Size 30.1mm
BX	Core Size 42.0 mm
NX	Core Size 54.7 mm
M	Double Tube Core Barrel Used
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
w	Moisture Content (Dry Wgt. Basis)
D	Dry
M	Moist
MTW	Moist To Wet
W	Wet
Sat	Saturated
Bo	Boulder
Gr	Gravel
Sa	Sand
Si	Silt
Cl	Clay
HP	Hardpan
Le	Ledge
NLTD	No Ledge To Depth
CNPF	Can Not Penetrate Further
TLOB	To Ledge Or Boulder
NR	No Recovery
Rec.	Recovery
XRec.	Percent Recovery
RQD	Rock Quality Designation
CBR	California Bearing Ratio
<	Less Than
>	Greater Than
R	Refusal (N > 100)

GENERAL NOTES

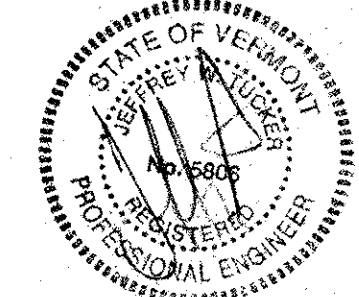
- The subsurface explorations shown herein were made between 4/24/02 and 4/25/02 by CON-TEC, INC.
- Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
- Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
- Engineering judgement was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgement by the Contractor.
- Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
- Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.

HOLE NO.	STATION	OFFSET (m)	GROUND ELEV.
B1	1+032.094	0.694 LT	77.75
B2	1+058.623	1.161 RT	78.20



DATUM

VERTICAL NVD 88
HORIZONTAL NAD 83



PLOTTED: 03/11/2004

DuBois & King Inc.
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
BORING INFORMATION SHEET

DRAWN BY SJB	DATE FEB. 2004
CHECKED BY JES	PROJ. NO. R16544
PROJ. ENG. JDA	DRAW. NO. 11437
SHEET 9 OF 30	

CON-TEC, INC. TEST BORING LOG

PROJECT: PEDESTRIAN BRIDGE OVER WHETSTONE BROOK
LOCATION: BRATTLEBORO, VT

JOB NO. G 28964
HOLE NO. B-1
SHEET 1 OF 2
START DATE 3/24/02
FINISH DATE 4/24/02
DRILLER S. CLAVETTE
HELPER J. CALDWELL
INSPECTOR B. AUSTIN

CASING				SAMPLE		CORE	GROUNDWATER		DEPTH TO		SHEET 1 OF 2 START DATE 8/24/02 FINISH DATE 8/24/02 DRILLER S. CLAVETTE HELPER J. CALDWELL INSPECTOR B. AUSTIN	
TYPE		HSA		SS			DATE	TIME	WATER	BOTTOM OF CASING		BOTTOM OF HOLE
SIZE ID		4 1/4"		1 3/8"			4/24/02		14.5'			
HAMMER WT.				140								
HAMMER FALL				30"								
DEPTH IN FEET	CASING BLOWS PER FOOT	SAMP NO.	SAMPLE DEPTH	SAMPLE BLOWS PER 6 INCHES	RECOV.	SOIL DESCRIPTION						
5.0'		S-1	0' - 2'	8 - 14	6 *	DRY, MEDIUM DENSE, BROWN, FINE SAND, SOME COARSE SAND, TRACE GRAVEL						
				15 - 24								
		S-2	2' - 4'	19 - 20	10 *	SAME AS S-1						
				10 - 8								
10.0'		S-3	4' - 6'	21 - 10	12 *	DRY, MEDIUM DENSE, BROWN, FINE SAND, SOME COARSE SAND, TRACE TRAVEL, TRACE GLASS						
				11 - 8								
		S-4	6' - 8'	7 - 7	12 *	DRY, MEDIUM DENSE, BROWN, FINE SAND, TRACE OF COARSE SAND						
				6 - 7								
15.0'		S-5	8' - 10'	8 - 6	20 *	DRY, MEDIUM DENSE, BROWN, FINE SAND, TRACE OF INORGANIC SILT						
				6 - 7								
		S-6	10' - 12'	8 - 9	16 *	SAME AS S-5, EXCEPT WITH TRACE OF COARSE SAND						
				7 - 8								
20.0'		S-7	2' - 13' 10"	8 - 7	16 *	12' - 13.5' SAME AS S-6						
				8 - 50/4"		13.5' - 14' COARSE SAND AND GRAVEL, SOME FINE SAND						
		S-8	16' - 18'	85 - 55	10 *	POSSIBLE WEATHERED BEDROCK						
25.0'				50 - 22								
		S-9	18' - 20'	24 - 13	12 *	WET, DENSE, GRAY, FINE SAND, SOME COARSE SAND, SOME GRAVEL						
				18 - 21								
		S-10	20' - 22'	7 - 10	10 *	SAME AS S-9						
30.0'				17 - 16								
		S-11	22' - 24'	20 - 20	18 *	WET, DENSE, GRAY, FINE SAND, TRACE INORGANIC SILT						
				26 - 23								
		S-12	24' - 26'	9 - 11	10 *	WET, MEDIUM DENSE, GRAY, FINE SAND, TRACE INORGANIC SILT						
35.0'				15 - 22								
		S-13	26' - 28'	21 - 22	22 *	SAME AS S-12, EXCEPT DENSE						
				19 - 23								
		S-14	28' - 30'	16 - 28	16 *	SAME AS S-12, EXCEPT VERY DENSE						
40.0'				46 - 43								
		S-15	30' - 32'	6 - 21	12 *	SAME AS S-12, EXCEPT DENSE						
				25 - 24								
		S-16	32' - 34'	21 - 23	22 *	SAME AS S-12, EXCEPT VERY DENSE						
45.0'				34 - 42								
		S-17	34' - 36'	17 - 33	14 *	SAME AS S-12, EXCEPT VERY DENSE						
				37 - 42								
		S-18	36' - 38'	29 - 37	20 *	SAME AS S-12, EXCEPT VERY DENSE						
40.0'				42 - 44								
		S-19	38' - 40'	21 - 24	18 *	SAME AS S-12, EXCEPT DENSE						
				19 - 22								
						BOTTOM OF EXPLORATION						
NOTE: 1. NO SAMPLE FROM 14' - 16' DUE TO COBBLES. 2. TYPED DRILLER'S FIELD LOG.												

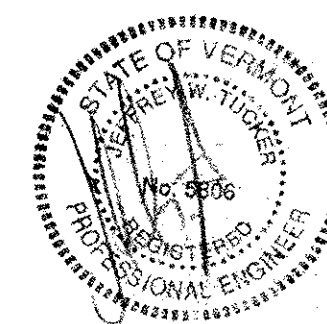
BOTTOM OF FOOTING

CON-TEC, INC. TEST BORING LOG

PROJECT: PEDESTRIAN BRIDGE OVER WHETSTONE BROOK
LOCATION: BRATTLEBORO, VT

JOB NO.	G 28964
HOLE NO.	B-2
SHEET	1 OF 2
START DATE	4/24/02
FINISH DATE	4/25/02
DRILLER	S. CLAVETTE
HELPER	J. CALDWELL
INSPECTOR	B. AUSTIN

TYPE		HSA		SS			
SIZE ID		4 1/4"		1 3/8"			
HAMMER WT.				140			
HAMMER FALL				30"			
DEPTH IN FEET	CASING BLOWS PER FOOT	SAMP. NO.	SAMPLE DEPTH	SAMPLE BLOWS PER 6 INCHES	RECOV.	SOIL DESCRIPTION	
5.0'		S-1	0' - 2'	10 - 9 7 - 4	10 *	ASPHALT DRY, MEDIUM DENSE, BLACK, FINE SAND, SOME COARSE SAND, SOME GRAVEL	
		S-2	2' - 4'	36 - 27 17 - 14	6 *	DRY, DENSE, BLACK, FINE SAND, SOME COARSE SAND, SOME GRAVEL, SOME FRAGMENTS OF CONCRETE	
		S-3	4' - 6'	15 - 11 10 - 17	10 *	DRY, MEDIUM DENSE, BLACK, FINE SAND, SOME COARSE SAND, TRACE OF GRAVEL	
		S-4	6' - 8'	16 - 11 9 - 7	18 *	SAME AS S-3, EXCEPT BROWN	
10.0'		S-5	8' - 10'	12 - 10 11 - 12	20 *	DRY, BROWN, MEDIUM DENSE, FINE SAND, TRACE OF COARSE SAND	
		S-6	10' - 12'	13 - 9 11 - 12	16 *	SAME AS S-5, EXCEPT GRAY	
		S-7	12' - 14'	11 - 10 8 - 8	22 *	SAME AS S-6, EXCEPT WITH SOME ORGANICS	
15.0'		S-8	14' - 16'	4 - 6 5 - 14	16 *	WET, MEDIUM DENSE, BLACK, FINE SAND, SOME ORGANICS, TRACE OF COARSE SAND	
		S-9	16' - 18'	16 - 15	18 *	WET, DENSE, BLACK, FINE SAND, SOME COARSE SAND	
20.0'		S-10	18' - 20'	56 - 42 39 - 27	18 *	WET, VERY DENSE, GRAY GRAVEL, SOME COARSE SAND, SOME FINE SAND	
		S-11	20' - 21' 11"	24 - 31 49-100/5'	12 *	SAME AS S-10	
25.0'		S-12	22' - 24'	27 - 21 19 - 14	16 *	WET, DENSE, GRAY, FINE SAND, SOME COARSE SAND, TRACE OF GRAVEL	
		S-13	24' - 26'	15 - 18 24 - 26	12 *	WET, DENSE, GRAY, FINE SAND, TRACE OF COARSE SAND	
		S-14	26' - 28'	12 - 19 20 - 24	20 *	WET, DENSE, GRAY, FINE SAND, TRACE INORGANIC SILT	
30.0'		S-15	28' - 30'	11 - 14 19 - 16	19 *	SAME AS S-14, EXCEPT WITH SOME INORGANIC SILT	
		S-16	30' - 32'	12 - 14 19 - 19	20 *	SAME AS S-15	
		S-17	32' - 34'	9 - 11 14 - 21	21 *	SAME AS S-15	
35.0'		S-18	34' - 36'	15 - 19 29 - 33	20 *	SAME AS S-15	
		S-19	36' - 38'	16 - 23 30 - 33	18 *	SAME AS S-15	
40.0'		S-20	38' - 40'	19 - 18 24 - 31	24 *	SAME AS S-15	
45.0'						BOTTOM OF EXPLORATION TYPED DRILLER'S FIELD LOG	



PLOTTED: 03/11/2004

DuBois & King Inc.
engineering planning management

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

WHESTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

BORING LOG SHEET

DRAWN BY SJB	DATE FEB. 200
CHECKED BY JNT	PROJ. NO. R15544
PROJ. ENG. JDA	DRAW. NO. 1-4-88
SHEET 10 OF 30	

BEGIN BRIDGE
STA. 1+031.400
F.G. = 78.052

LATCHIS CORPORATION

EXISTING PROPANE
GAS TANKS

EXISTING CHAIN LINK FENCE
TO BE REMOVED.

BEGIN RETAINING WALL
STA. 1+024.545, 4.868 LT
NEW RETAINING WALL
(MOD. - PREFABRICATED
MASONRY BLOCK WALL)
SEE SHEET 16 FOR
DETAIL.
Stone Block

END RETAINING WALL
STA. 1+034.867, 2.684 LT

NEW PREFABRICATED
MULTI-MODAL BRIDGE

END BRIDGE
STA. 1+058.832
F.G. = 78.549

PRESTON
MUNICIPAL
PARKING LOT

EXISTING SANITARY
SEWER LINE, SEE
NOTE 3, THIS SHEET.

BITUMINOUS CONCRETE PAVEMENT
AREA (TYP.), PATHWAY OUTSIDE OF
HATCHING CONSISTS OF BITUMINOUS
CONCRETE SIDEWALK (MOD. -
TEXTURED).

LEGEND

EXISTING

- EDGE OF PAVEMENT
- ===== EDGE OF RIVER
- ////// BUILDING
- TREE
- △ TIE POINT
- ☆ UTILITY POLE
- ⊙ SEWER MANHOLE
- STREET LIGHT
- ⊕ SIGN

- CULVERT
- ⊠ CATCH BASIN
- ⊗ STONE WALL
- S - SEWER LINE
- AERIAL E&T AERIAL E+T

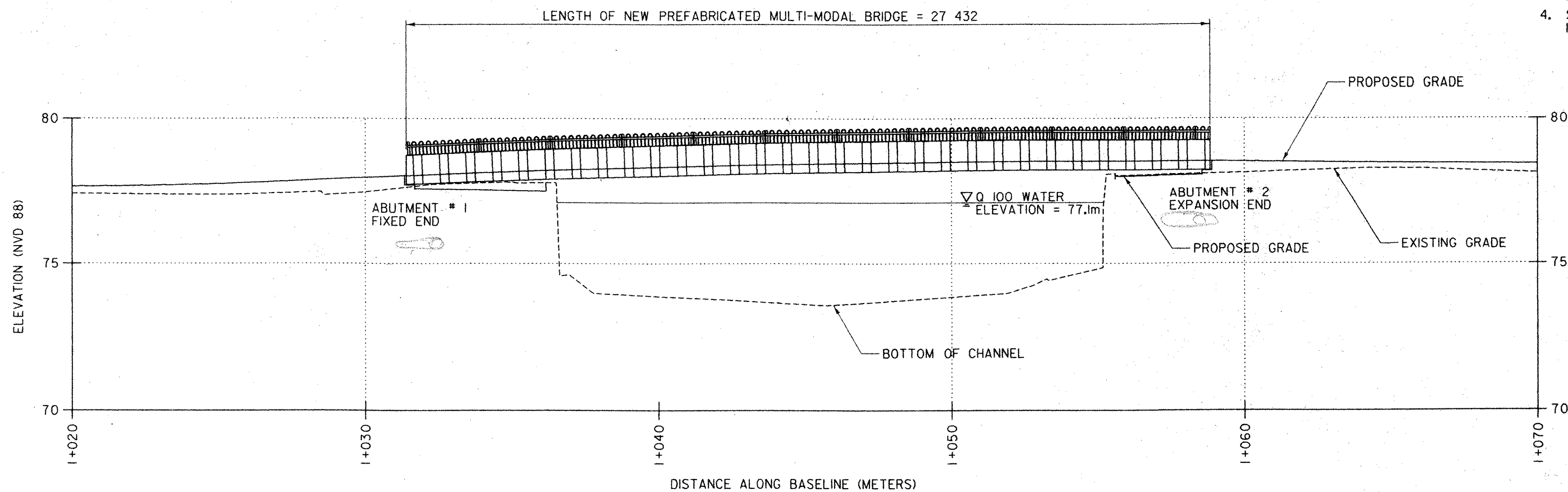
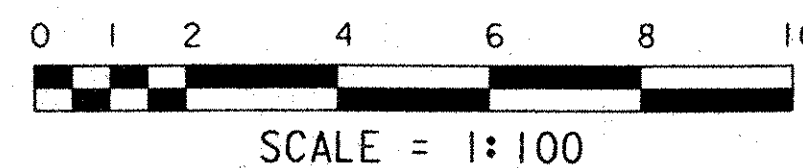
PROPOSED

- ⊕ SIGN
- ===== VERTICAL GRANITE CURB
- △ LIMITS OF CONSTRUCTION
- WIRE CONDUIT UNDER BRIDGE
- × NEW STEEL FENCE
- ⊙ PATHWAY LIGHT
- GRANITE BLOCKS
- BITUMINOUS CONCRETE SIDEWALK
(MOD. - TEXTURED) / BITUMINOUS
CONCRETE PAVEMENT BOUNDARY

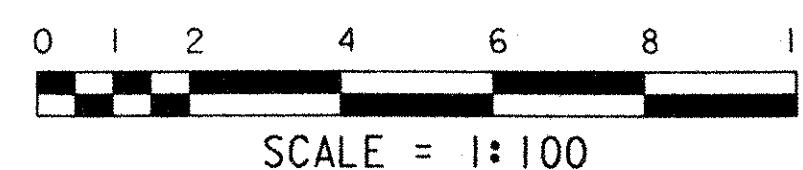
DATUM
VERTICAL NVD 88
HORIZONTAL NAD 83

ELECTRICAL LINE AND CONDUIT TO BE INSTALLED
UNDER BRIDGE TO SUPPLY ELECTRICAL POWER
FOR NEW PATHWAY LIGHTS IN PRESTON PARKING
LOT. SEE UTILITY SHEET FOR MORE DETAIL ON
ELECTRIC CONDUIT FOR NEW LIGHT POLES.
PAYMENT FOR LINE, CONDUIT, MOUNTING BRACKETS,
EXPANSION JOINTS AND OTHER COMPONENTS
NECESSARY TO INSTALL THE CONDUIT SHALL BE PAID
INCIDENTAL TO ITEM 545.20, "PREFABRICATED
MULTI-MODAL BRIDGE".

PLAN

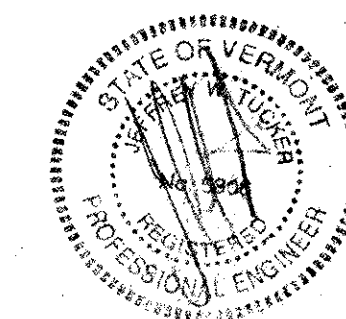


ELEVATION



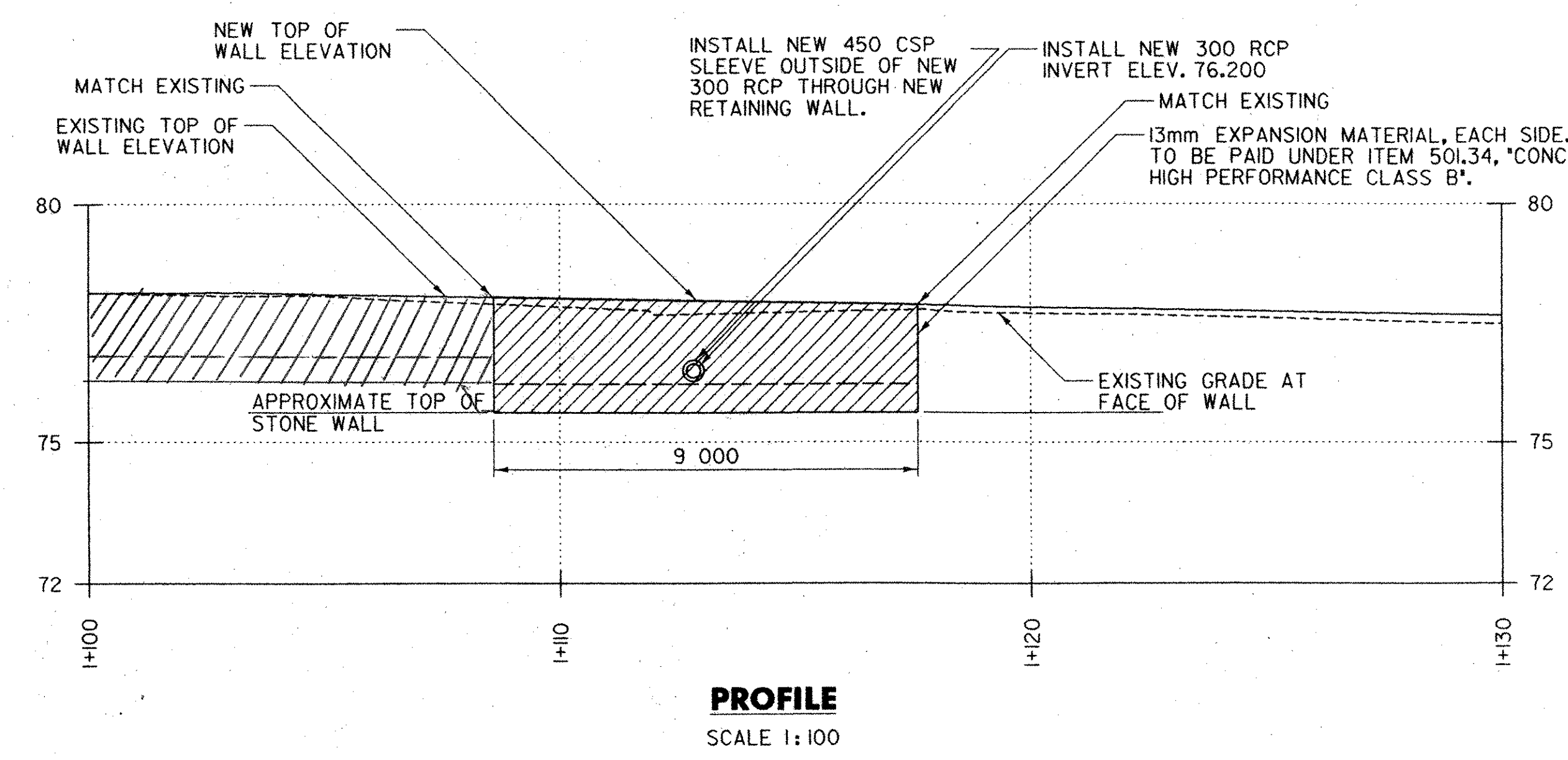
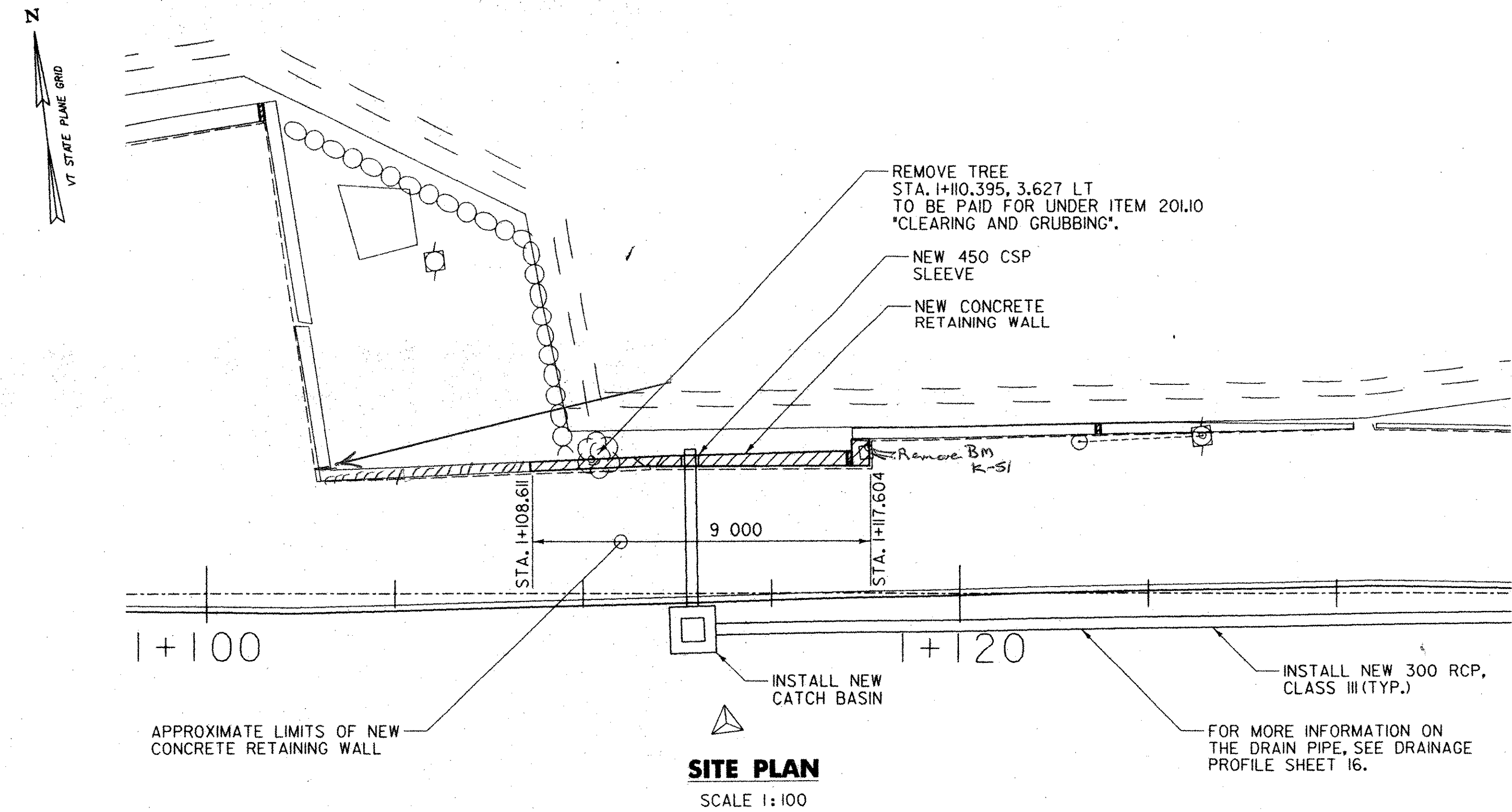
NOTE:

1. THE CONTRACTOR SHALL SAW CUT AND USE LIGHTWEIGHT HAMMERS TO REMOVE TOP OF CONCRETE WALL TO PROVIDE FOR ADEQUATE DRAINAGE. A MINIMUM OF 125 mm VERTICAL CLEARANCE FROM BOTTOM OF BEAM TO TOP OF CONCRETE WALL. SEE SHEET 2 FOR GRADING BETWEEN THE BEGIN/END OF BRIDGE AND CONCRETE WALL.
2. THE COLOR OF THE BRIDGE STEEL BEAMS AND THE BRIDGE RAIL SHALL BE BLACK, PAINT CHIP NO. 37038.
3. LOCATION SHOWN OF EXISTING SANITARY SEWER LINE SHOWN NEAR ABUTMENT 1 IS APPROXIMATE. SEWER SHALL NOT BE DISTURBED DURING CONSTRUCTION.
4. STATIONS ARE GIVEN IN KILOMETERS, ELEVATIONS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

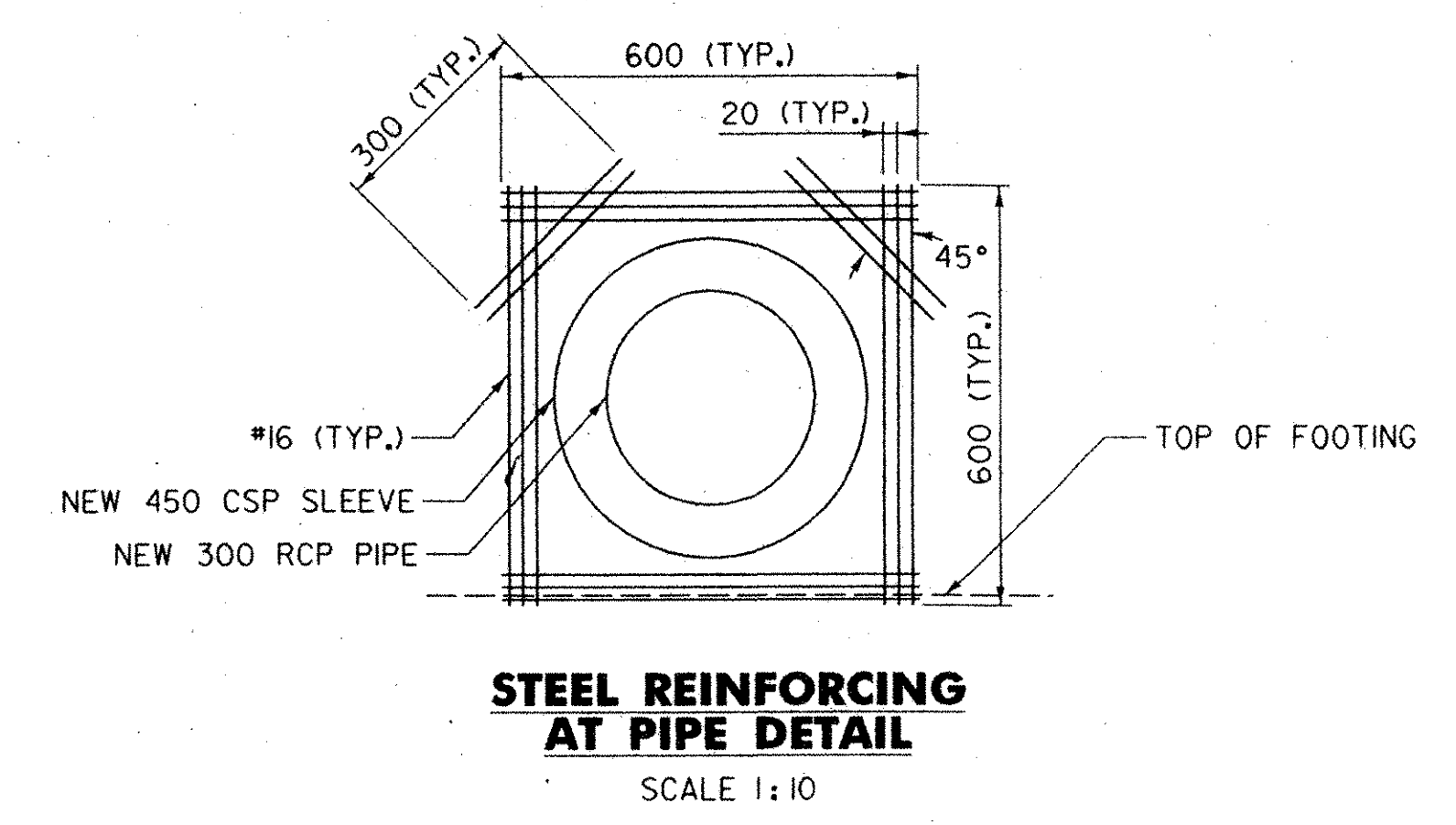


PLOTTED: 03/11/2004

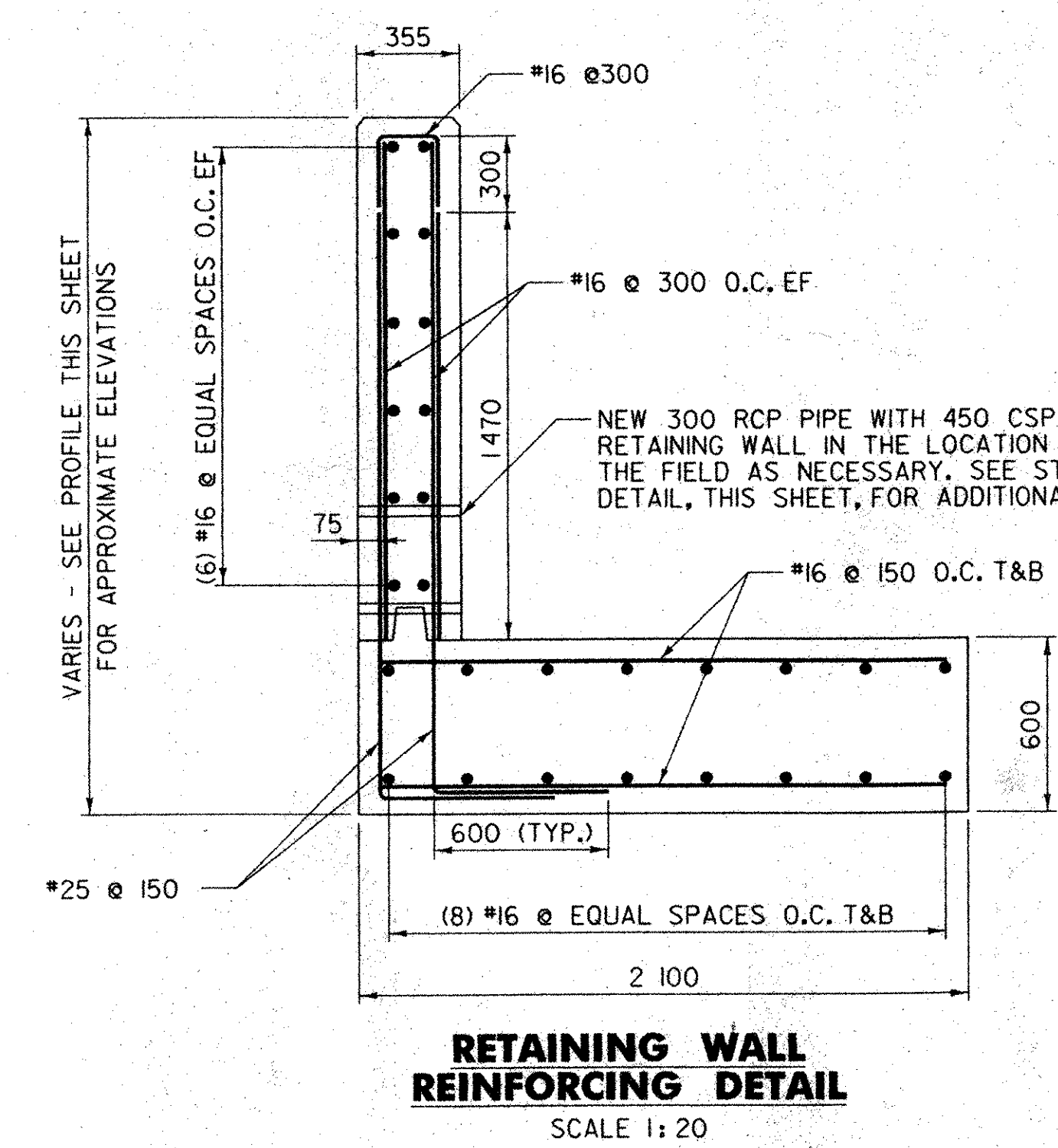
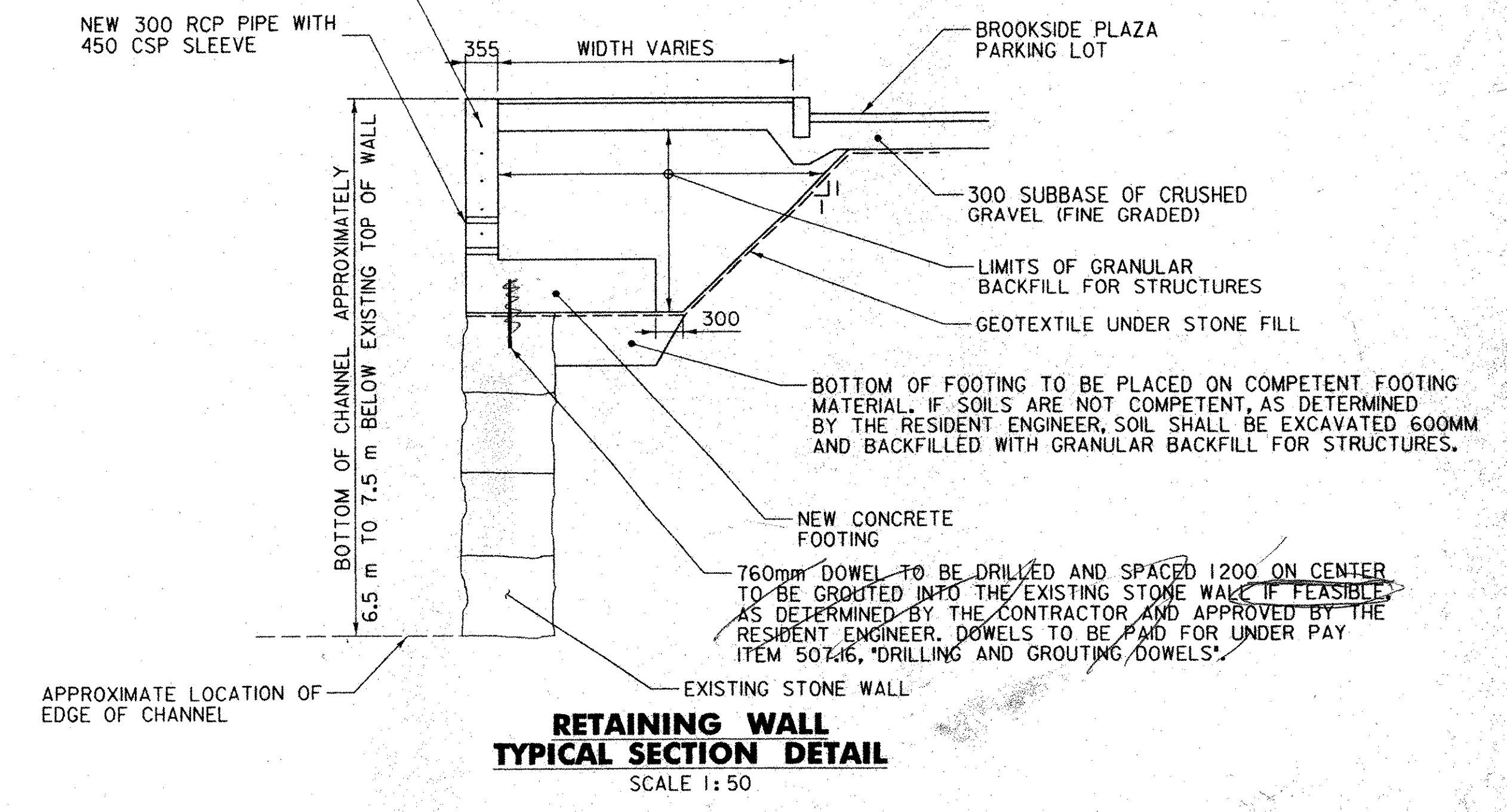
DuBois & King engineering planning management development	TOWN OF BRATTLEBORO BRATTLEBORO, VERMONT		DRAWN BY SJB	DATE FEB 2004
	WHETSTONE BROOK PATHWAY PROJECT STP BIKE (27) S		CHECKED BY JDA	PROJ. NO. 11444
	PLAN AND ELEVATION SHEET		PROJ. ENG. JDA	DRAWN NO. 11444
			SHEET 11	OF 11



- LEGEND**
- EXISTING**
- EDGE OF PAVEMENT
 - EDGE OF BROOK
 - ✕ TREE
 - UTILITY POLE
 - △ TIE POINT
- PROPOSED**
- CURB
 - CULVERT
 - CATCH BASIN

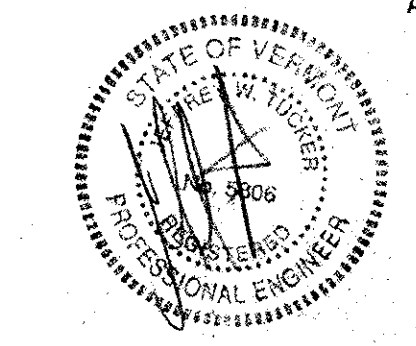


NEW 760mm DOWEL (TYP.) TO BE DRILLED AND SPACED 300mm ON CENTER AND GROUTED INTO THE EXISTING WALL. PLACEMENT OF DOWELS TO BE INSTALLED ONLY IF FEASIBLE, AS DETERMINED BY THE RESIDENT ENGINEER. DOWELS TO BE PAID FOR UNDER PAY ITEM 507.16, 'DRILLING AND GROUTING DOWELS'.



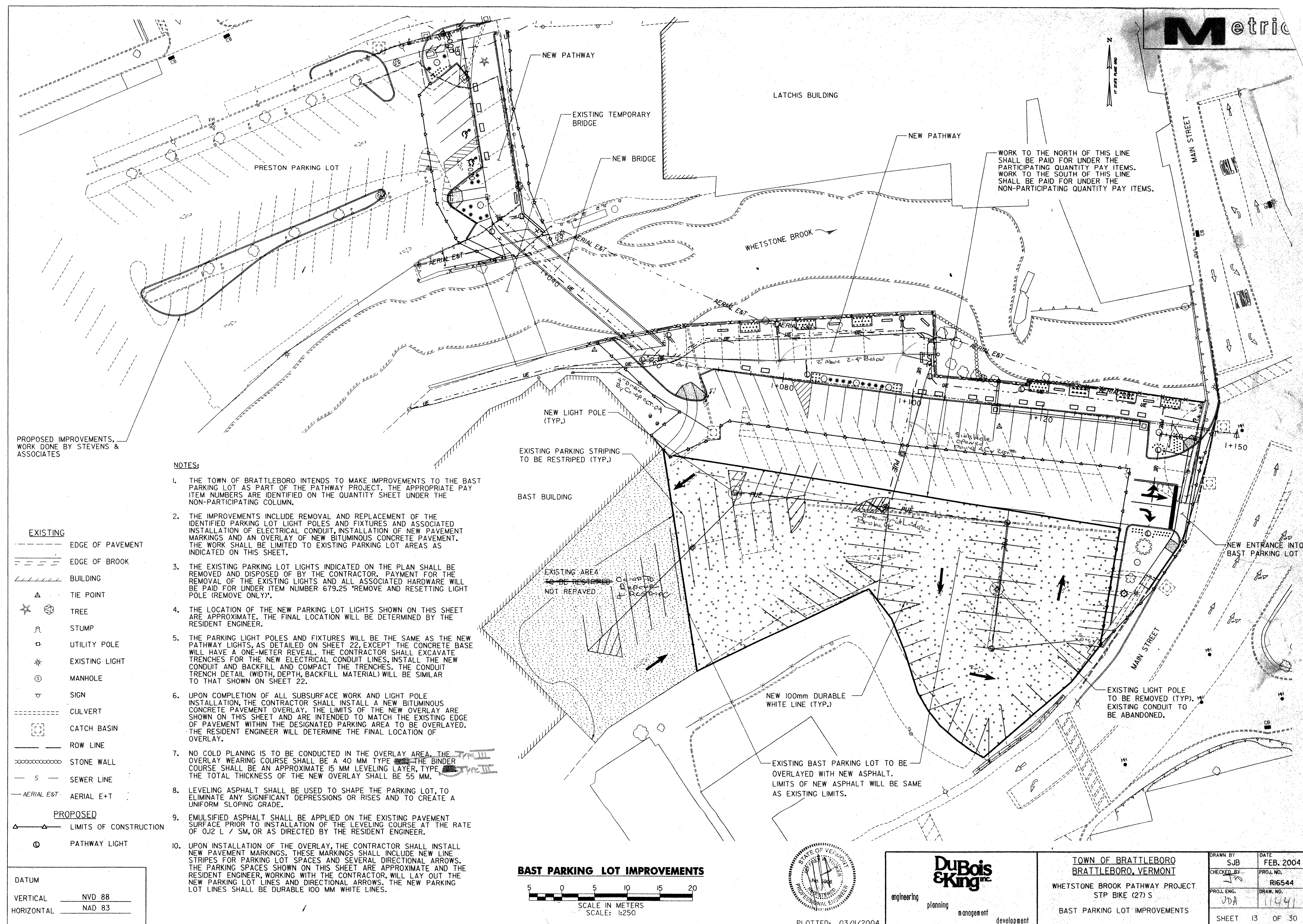
NOTES

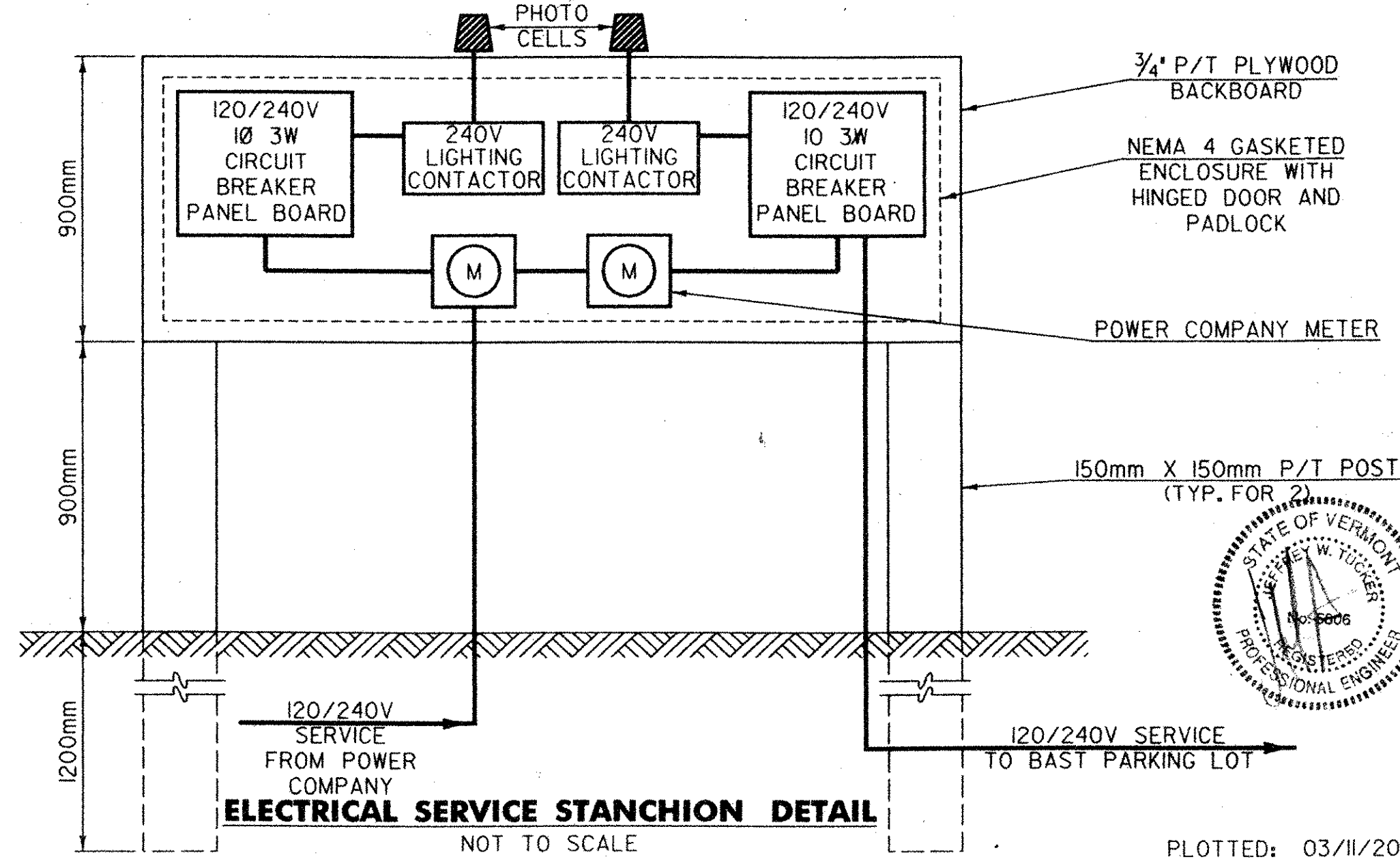
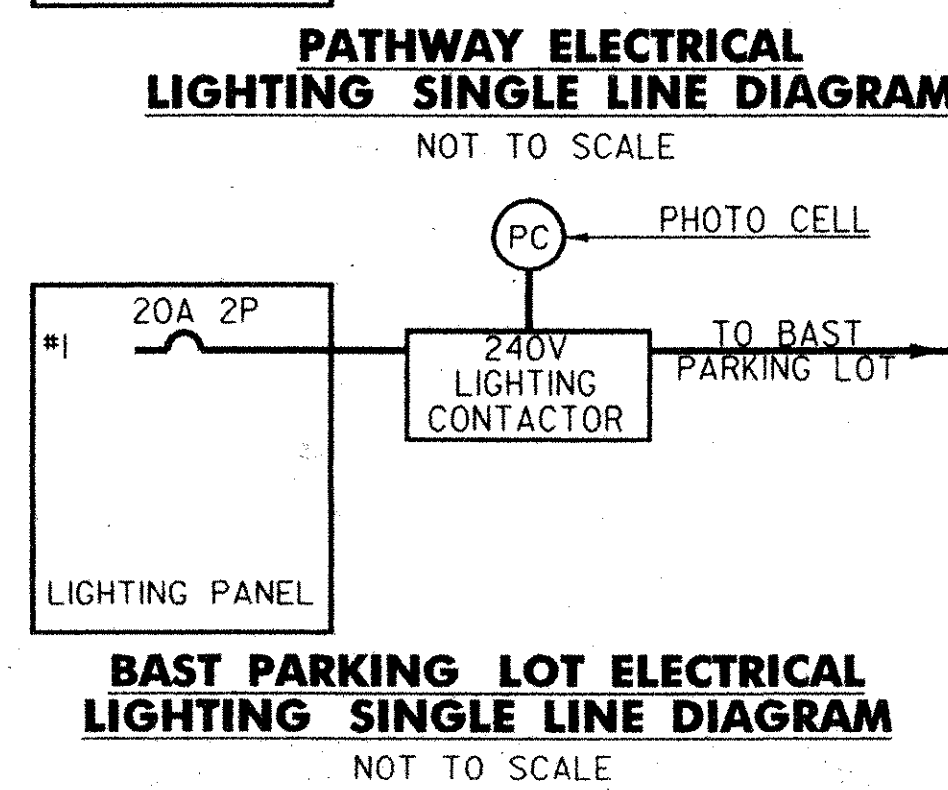
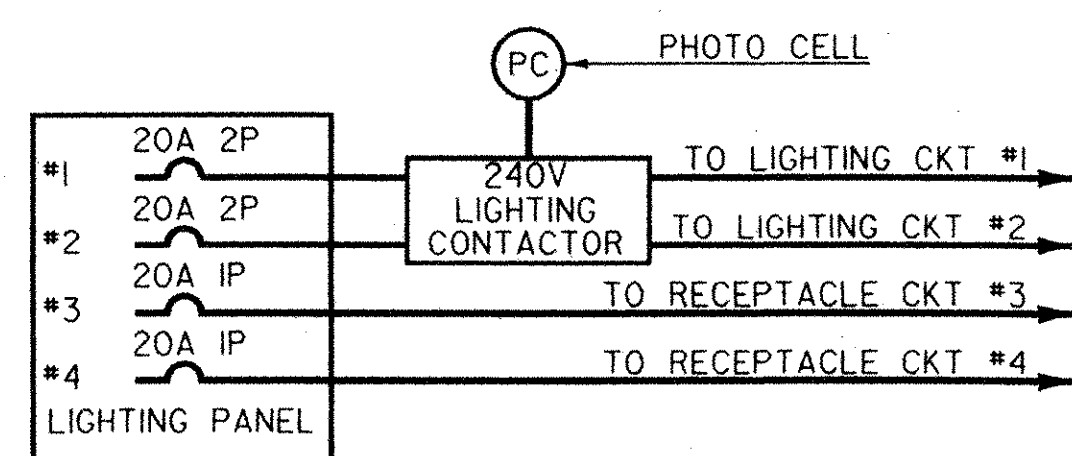
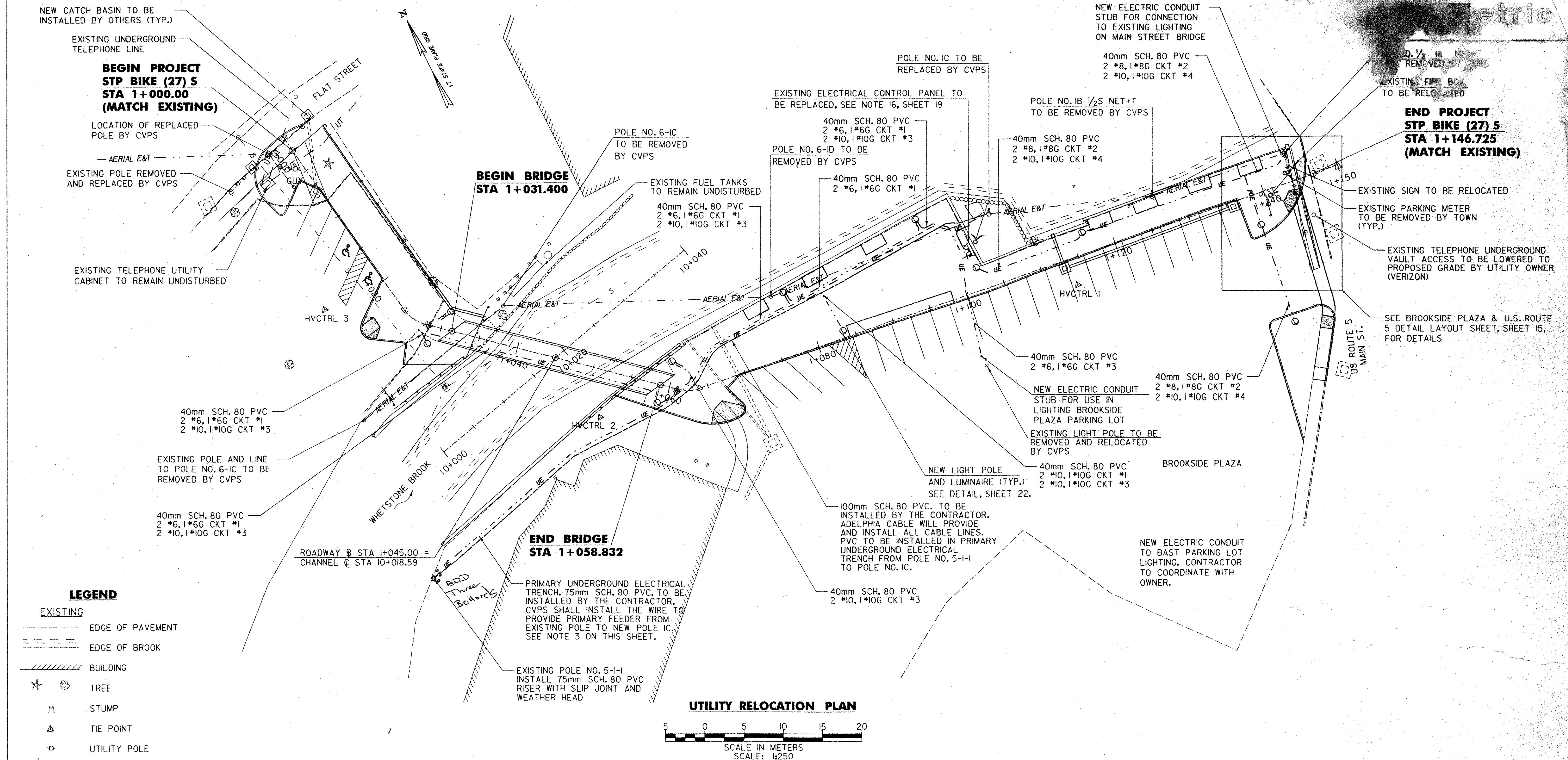
1. THE EXISTING CONCRETE RETAINING WALL SECTION TO BE REMOVED SHALL BE PAID FOR BY PAY ITEM 203.16, 'SOLID ROCK EXCAVATION.'
2. CONCRETE FOOTING IS TO BE PLACED ON THE TOP OF EXISTING STONE WALL, WHICH IS TO REMAIN UNDISTURBED, EXCEPT FOR THE DRILLING AND GROUTING OF DOWELS.
3. TOP OF NEW CONCRETE WALL ELEVATION SHALL MATCH THE EXISTING TOP OF WALL.
4. STATIONS ARE GIVEN IN KILOMETERS, ELEVATIONS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.



DuBois & King Inc. engineering planning management development	TOWN OF BRATTLEBORO BRATTLEBORO, VERMONT		DRAWN BY: SJD CHECKED BY: JUD PROJ. ENG.: JDA SHEET: 12 OF 30
	WHETSTONE BROOK PATHWAY PROJECT STP BIKE (27) S		DATE: FEB. 2004 PROJ. NO.: RIG544 DRAW. NO.: 11440
	RETAINING WALL SHEET		

PLOTTED: 03/11/2004





NEW LIGHT POLE AND LUMINAIRE

STA. 1+028.769, 2.339 RT	STA. 1+096.970, 11.275 LT
STA. 1+030.664, 2.400 LT	STA. 1+102.285, 2.916 LT
STA. 1+058.969, 2.257 RT	STA. 1+116.485, 2.674 LT
STA. 1+059.495, 3.289 LT	STA. 1+138.359, 3.908 RT
STA. 1+077.999, 8.042 LT	STA. 1+138.359, 16.982 RT
STA. 1+083.603, 0.934 LT	

NOTE:

- SEE SHEET 19 FOR UTILITY RELOCATION NOTES.
- STATIONS ARE GIVEN IN KILOMETERS, OFFSETS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.
- CVPS IS RESPONSIBLE FOR OBTAINING NECESSARY EASEMENTS FOR WORK ASSOCIATED WITH THE PRIMARY UNDERGROUND ELECTRICAL TRENCH.
- ELECTRICAL CONDUCTOR SIZE REFERS TO AWG WIRE SIZE.

DuBois & King

engineering planning management development

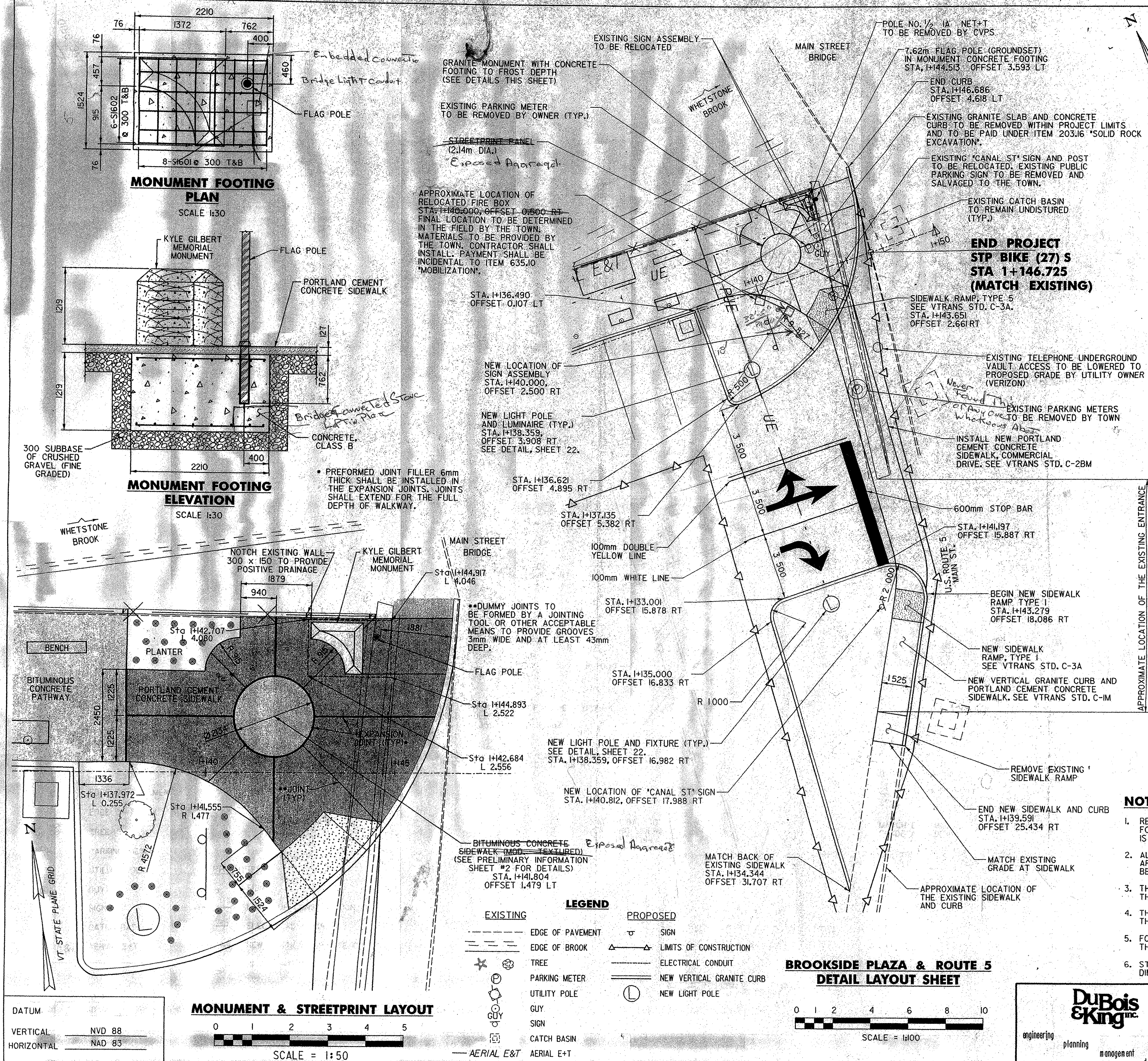
TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

UTILITY RELOCATION SHEET

DRAWN BY SJB	DATE FEB. 2004
CHECKED BY JDA	PROJ. NO. R16544
PROJ. ENG. JDA	DRAW. NO. 11476
SHEET 14	OF 30

PLOTTED: 03/11/2004

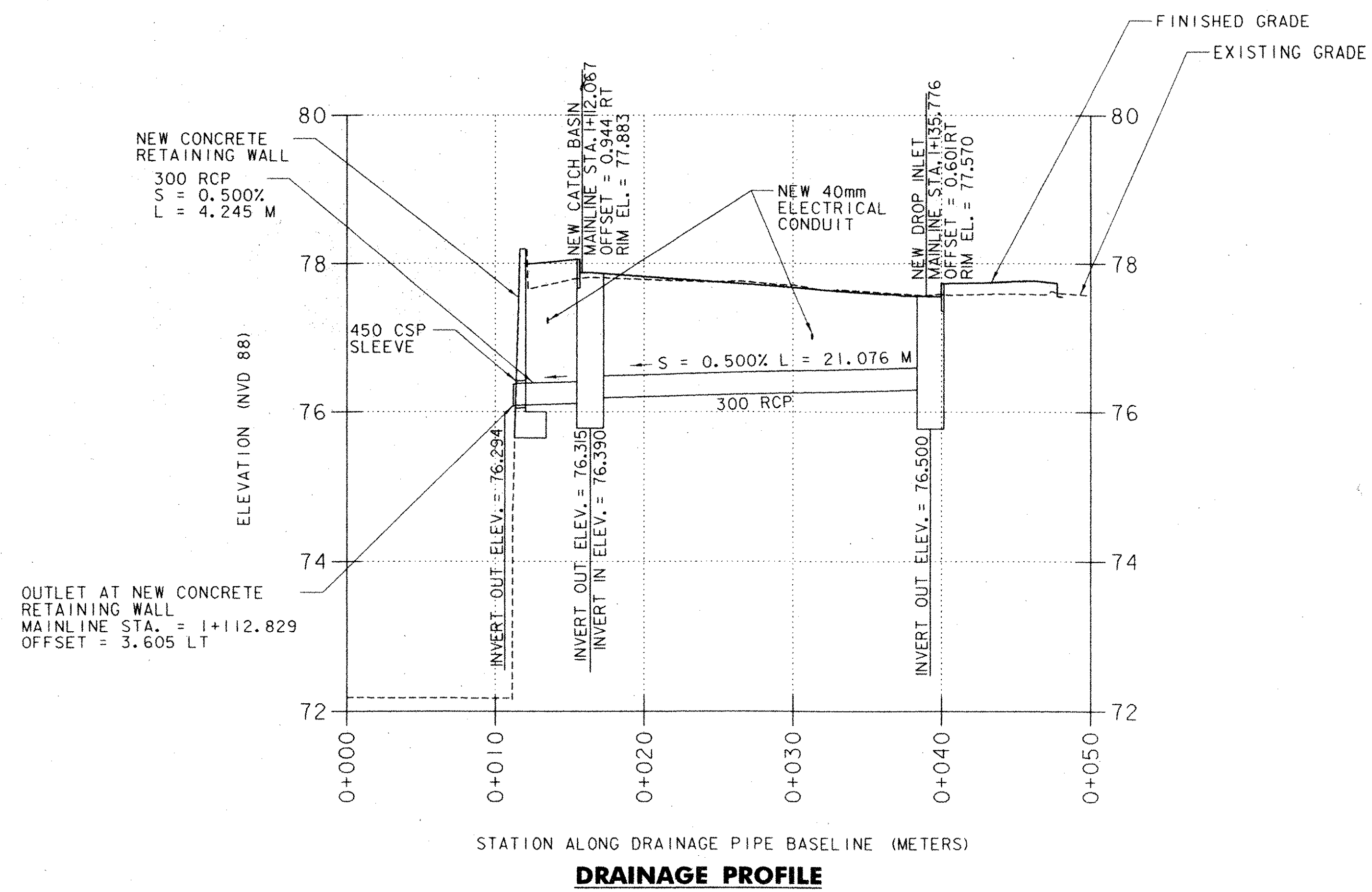


NOTES:

- REMOVAL OF THE EXISTING SIDEWALK ALONG MAIN STREET NECESSARY FOR CONSTRUCTION SHALL BE COMPLETED PRIOR TO THIS PROJECT AND IS NOT PAID FOR THROUGH THIS PROJECT.
- ALL THE LOCATIONS OF SIGNS, LIGHT POLES AND THE FIRE BOX ARE APPROXIMATE AND THE FINAL LOCATION SHALL BE DECIDED BY THE TOWN BEFORE PLACEMENT.
- THE EXISTING PARKING LOT SIGN SHALL BE REMOVED AND SALVAGED TO THE TOWN.
- THE EXISTING CANAL STREET SIGN SHALL BE RELOCATED AS SHOWN ON THIS SHEET.
- FOR DETAILS ON THE REMOVAL OF THE POLE 1/2 1A, SEE SHEET 14 AND THE UTILITY RELOCATION NOTES ON SHEET 19 FOR DETAILS.
- STATIONS ARE GIVEN IN KILOMETERS, OFFSETS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

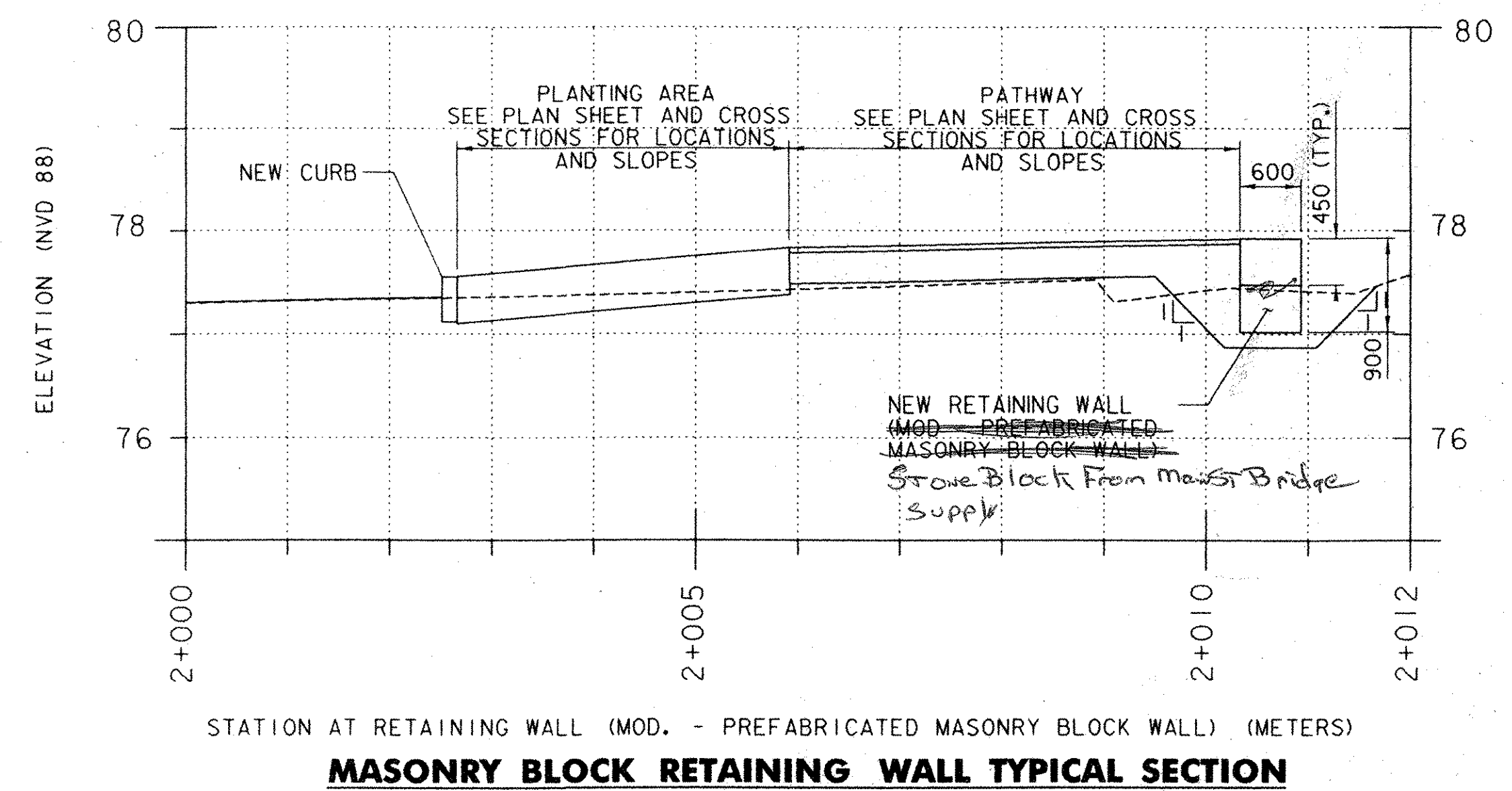
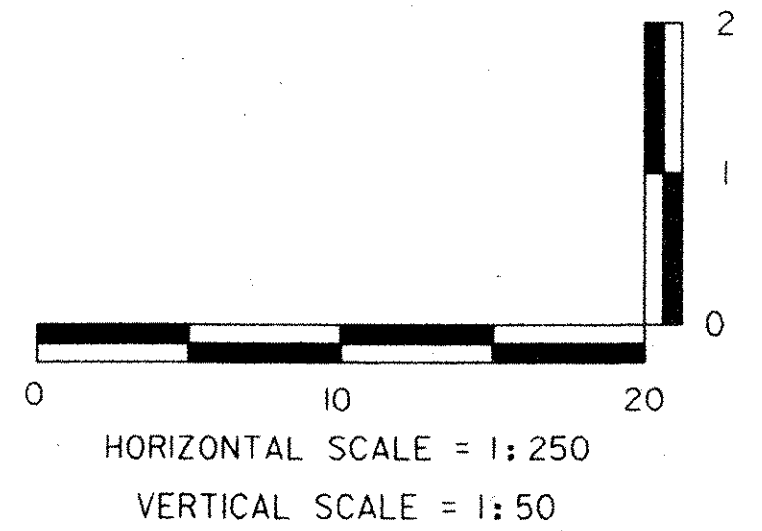
DuBois & King engineering planning management development	TOWN OF BRATTLEBORO BRATTLEBORO, VERMONT		DRAWN BY SJB/PGJ	DATE 9/03/04
	WHETSTONE BROOK PATHWAY PROJECT STP BIKE (27) S		CHECKED BY	PROJ. NO. R16544
	BROOKSIDE PLAZA & U.S. ROUTE 5 DETAIL LAYOUT SHEET		PROJ. ENG.	DRAW. NO.
			SHEET 15 OF 30	

PLOTTED: 09/10/2004



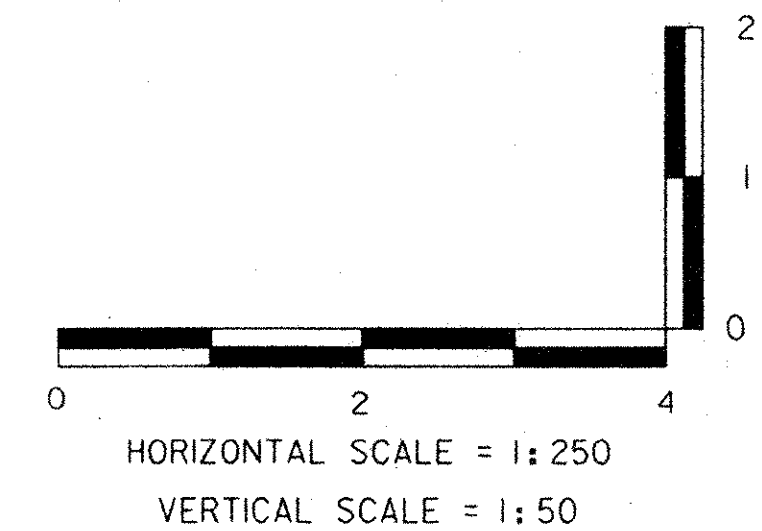
NOTES:

1. ALL CATCH BASIN AND DROP INLET RIM ELEVATIONS ARE TO BE 10 mm BELOW FINAL GRADE PAVEMENT ELEVATIONS.
2. INLET INVERT ELEVATIONS FOR NEW CATCH BASIN AND DROP INLET SHALL BE A MINIMUM OF 75 mm HIGHER IN ELEVATION THAN THE OUTLET INVERT.
3. DROP INLET GRATE AT STA. 1+135.776 SHALL BE TYPE E. CATCH BASIN GRATE AT STA. 1+12.067 SHALL BE TYPE D.
4. OFFSETS AND ELEVATIONS ARE GIVEN IN METERS.
5. 450 CSP SLEEVE TO BE PAID INCIDENTAL TO CONCRETE FOR NEW RETAINING WALL, ITEM 501.34 "CONCRETE, HIGH PERFORMANCE CLASS B".

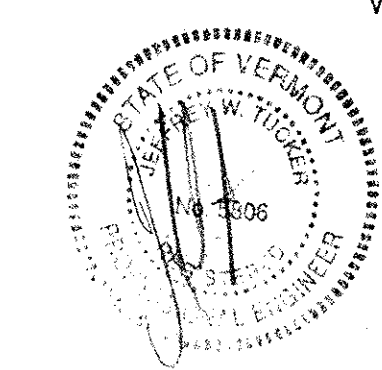


NOTES:

- USED Stone Block Agreed by All*
1. MANUFACTURER OF PREFABRICATED MASONRY BLOCK WALL TO BE APPROVED BY TOWN PRIOR TO INSTALLATION.
 2. WALL SHALL CONSIST OF FREESTANDING BLOCKS WHICH CAN CARRY THE WEIGHT OF THE EARTH BEHIND THE WALL.
 3. MASONRY BLOCKS SHALL BE GRAY IN COLOR AND HAVE A TEXTURED SURFACE.
 4. HEIGHT ABOVE GRADE VARIES AND IS DEPENDANT ON ELEVATION BEHIND WALL.



DATUM	
VERTICAL	NVD 88
HORIZONTAL	NAD 83



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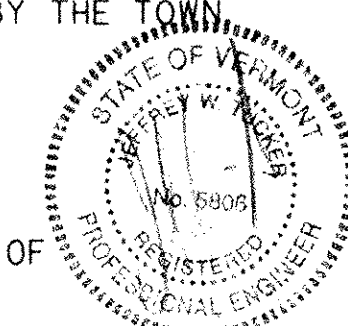
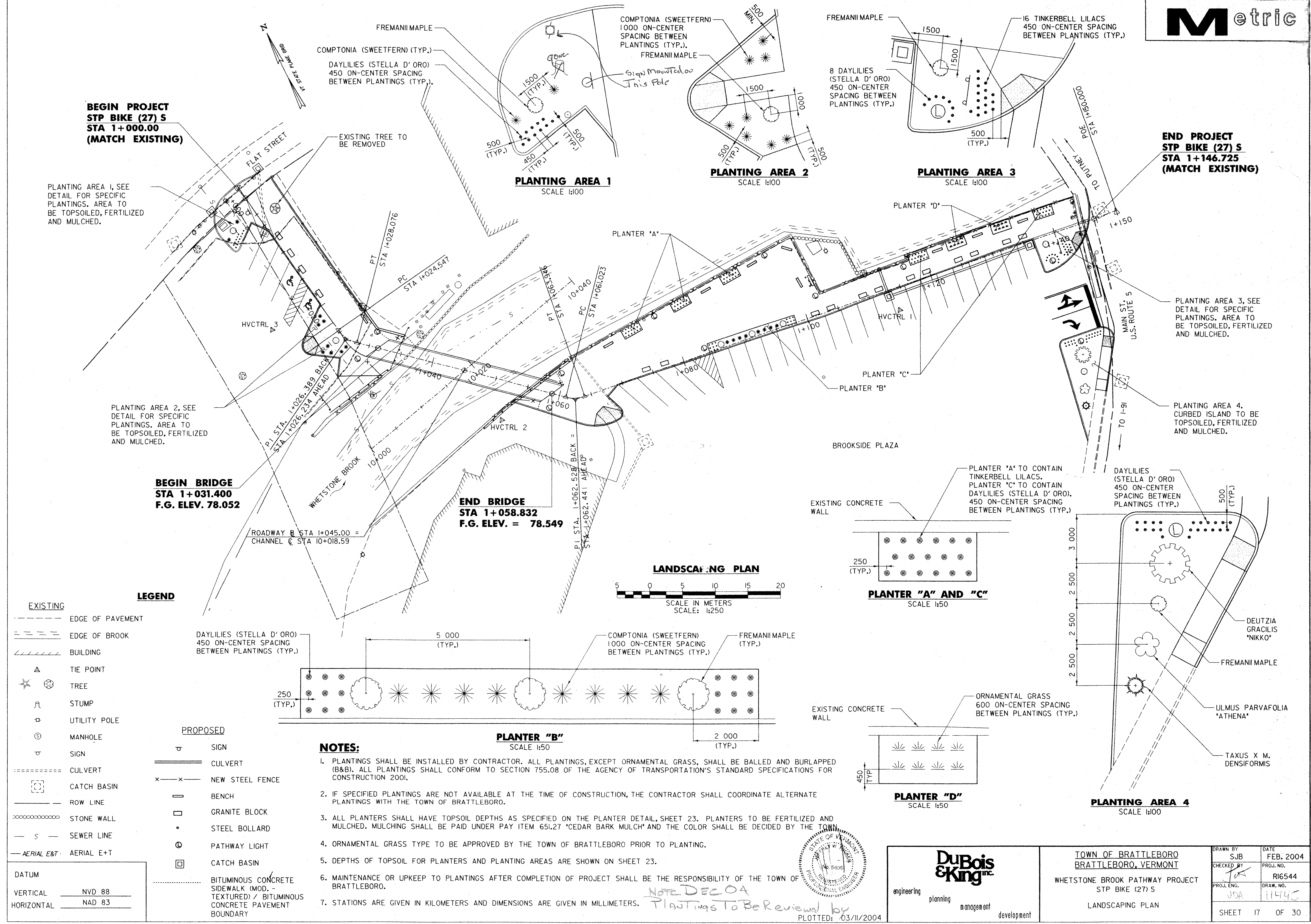
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
DRAINAGE & MASONRY BLOCK
RETAINING WALL PROFILE SHEET

DRAWN BY	SJB	DATE	FEB. 2004
CHECKED BY	JN	PROJ. NO.	RI6544
PROJ. ENG.	JDA	DRAW. NO.	11444
SHEET	16	OF	30

PLOTTED: 03/11/2004



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engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
LANDSCAPING PLAN

DRAWN BY	SJB	DATE	FEB. 2004
CHECKED BY	JFA	PROJ. NO.	R16544
PROJ. ENG.	JDA	DRAW. NO.	11445
SHEET		17	OF 30

NOTE DEC 04
Plantings To Be Reviewed by
Committee and List Available in Early Feb

G20-2A

**END
ROAD WORK**

**BEGIN PROJECT
STP BIKE (27) S
STA 1+000.00
(MATCH EXISTING)**

VC 839

**SIDE
ROAD WORK
AHEAD**

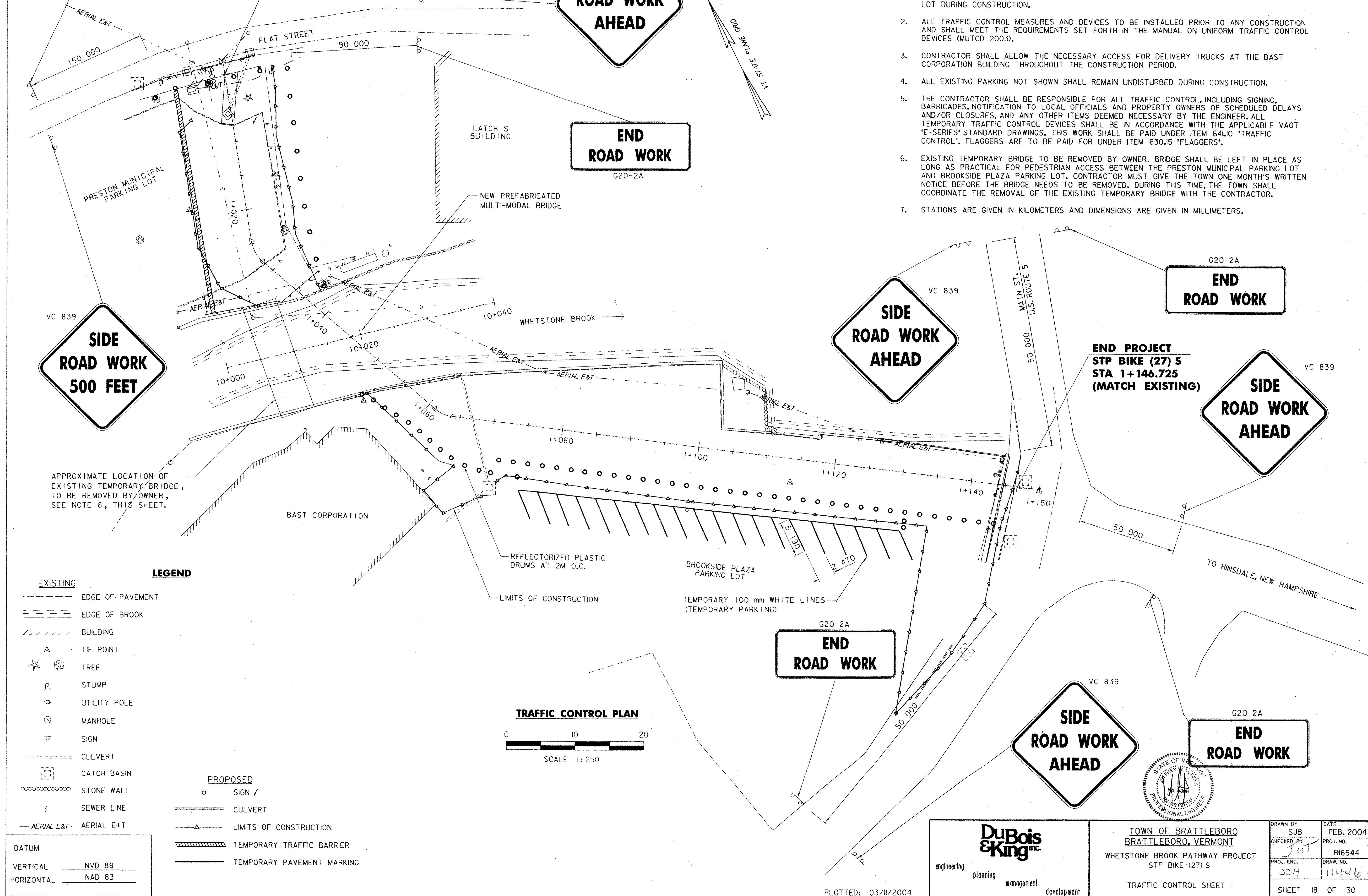
**END
ROAD WORK**

G20-2A

NOTES:

1. CONTRACTOR TO MAINTAIN CIRCULATION OF TRAFFIC IN THE PRESTON MUNICIPAL PARKING LOT DURING CONSTRUCTION.
2. ALL TRAFFIC CONTROL MEASURES AND DEVICES TO BE INSTALLED PRIOR TO ANY CONSTRUCTION AND SHALL MEET THE REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD 2003).
3. CONTRACTOR SHALL ALLOW THE NECESSARY ACCESS FOR DELIVERY TRUCKS AT THE BAST CORPORATION BUILDING THROUGHOUT THE CONSTRUCTION PERIOD.
4. ALL EXISTING PARKING NOT SHOWN SHALL REMAIN UNDISTURBED DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL, INCLUDING SIGNING, BARRICADES, NOTIFICATION TO LOCAL OFFICIALS AND PROPERTY OWNERS OF SCHEDULED DELAYS AND/OR CLOSURES, AND ANY OTHER ITEMS DEEMED NECESSARY BY THE ENGINEER. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE VAOT 'E-SERIES' STANDARD DRAWINGS. THIS WORK SHALL BE PAID UNDER ITEM 641.10 'TRAFFIC CONTROL'. FLAGGERS ARE TO BE PAID FOR UNDER ITEM 630.15 'FLAGGERS'.
6. EXISTING TEMPORARY BRIDGE TO BE REMOVED BY OWNER. BRIDGE SHALL BE LEFT IN PLACE AS LONG AS PRACTICAL FOR PEDESTRIAN ACCESS BETWEEN THE PRESTON MUNICIPAL PARKING LOT AND BROOKSIDE PLAZA PARKING LOT. CONTRACTOR MUST GIVE THE TOWN ONE MONTH'S WRITTEN NOTICE BEFORE THE BRIDGE NEEDS TO BE REMOVED. DURING THIS TIME, THE TOWN SHALL COORDINATE THE REMOVAL OF THE EXISTING TEMPORARY BRIDGE WITH THE CONTRACTOR.
7. STATIONS ARE GIVEN IN KILOMETERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

Metric



GENERAL NOTES

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION, DATED 2002, AND ITS LATEST REVISIONS.
- ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL, AND ARE GIVEN AT 20 DEGREES CELSIUS, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL REVIEW AND UNDERSTAND ALL APPLICABLE ENVIRONMENTAL PERMITS AND ENSURE THAT ALL CONSTRUCTION CONDITIONS ARE MET.
- A THOROUGH INSPECTION BY THE RESIDENT ENGINEER WILL BE MADE OF ALL AREAS AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL SUPPLY ANY MATERIALS REQUIRED FOR THE INSPECTION. THE COST OF MATERIALS AND LABOR FOR THE INSPECTION SHALL BE SUBSIDIARY TO ITEM 635.10, "MOBILIZATION".
- NO BACKFILL WILL BE PLACED AGAINST ANY STRUCTURAL ELEMENTS UNTIL THE RESIDENT ENGINEER HAS APPROVED THIS WORK. ~~THE HEIGHT OF BACKFILL BEHIND THE ABUTMENTS SHALL BE LIMITED TO THE BRIDGE SEAT ELEVATIONS UNTIL THE NEW BRIDGE HAS BEEN SET.~~ *Waived To Permit Settle & No Water*
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTY CAUSED BY THE CONTRACTOR, AT THE SOLE COST TO THE CONTRACTOR.
- ANY PAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE SAW CUT, AND THE PAVEMENT SHALL BE REPLACED TO MATCH FINISHED GRADE. PAYMENT FOR THIS WORK SHALL BE SUBSIDIARY TO PAY ITEM 406.25, "BITUMINOUS CONCRETE PAVEMENT".
- THE CONTRACTOR, AT THE EXPENSE OF THE CONTRACTOR, SHALL REPAIR DAMAGE TO CONCRETE WALLS RESULTING FROM IMPROPER BACKFILLING.
- ITEM 514.10, "WATER REPELLENT", SHALL BE APPLIED TO ALL EXPOSED CONCRETE ON THE BRIDGE SUBSTRUCTURE AND THE NEW CONCRETE RETAINING WALL.
- ALL CONCRETE SHALL BE HIGH PERFORMANCE CONCRETE, CLASS B UNLESS OTHERWISE SPECIFIED.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 25mm BY 25mm, UNLESS OTHERWISE NOTED.
- JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- KEY IN CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT UNLESS OTHERWISE INDICATED. ANY UPWARD KEY SHALL BE PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.
- ALL NEW STRUCTURAL STEEL SHALL BE AS SPECIFIED BY THE MANUFACTURER, UNLESS OTHERWISE NOTED.
- ANY LAWN AREAS DISTURBED DURING CONSTRUCTION SHALL BE REGRADED WITH TOPSOIL, SEEDED AND MULCHED. PAYMENT FOR THIS WORK SHALL BE SUBSIDIARY TO THE APPLICABLE ITEMS.
- THE OWNER WILL REMOVE THE EXISTING PARKING METERS LOCATED NEAR THE MAIN STREET SIDEWALK. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND RELOCATION OF THE EXISTING TRAFFIC SIGN ASSEMBLY LOCATED NEAR STA. 1+144 LEFT. THE LOCATION OF THE RELOCATED SIGN ASSEMBLY WILL BE NEAR STA. 1+140, RIGHT, AS SHOWN ON THESE PLANS. THE RESIDENT ENGINEER SHALL DETERMINE THE FINAL LOCATION OF THE SIGN ASSEMBLY.
- PAY ITEM 404.65, "EMULSIFIED ASPHALT", SHALL BE APPLIED ON ALL PAVED SURFACES TO BE PAVED AT THE RATE OF 0.12 L/SM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAINTAINING THE BASELINE THROUGHOUT THE PROJECT.
- THE CONTRACTOR SHALL COORDINATE WITH THE TOWN OF BRATTLEBORO FOR SPECIFIC ACCESS TO THE BRIDGE SITE FROM US ROUTE 5 AND/OR FLAT STREET PRIOR TO MOBILIZATION.
- BACKFILL AGAINST A WATERPROOFED SURFACE SHALL BE PLACED CAREFULLY TO AVOID DAMAGE TO THE WATERPROOFING MATERIAL.
- ALL EXISTING PAVEMENT IN THE PROJECT LIMITS OF THE NEW PATHWAY SHALL BE REMOVED AND DISPOSED OF UNDER PAY ITEM 203.15, "COMMON EXCAVATION".
- ALL WORK ASSOCIATED WITH INSTALLING THE BITUMINOUS CONCRETE PAVEMENT (TEXTURED) AT THE LOCATIONS SHOWN ON THESE PLANS SHALL BE PAID UNDER PAY ITEM 618.15, "BITUMINOUS CONCRETE SIDEWALK (MOD. - TEXTURED)". THE CONTRACTOR SHALL USE STREETPRINT PAVEMENT. THE COLOR SHALL BE BRICK AND THE STYLE SHALL BE OFFSET BRICK.
- WORK ASSOCIATED WITH PATHWAY CONSTRUCTION, INCLUDING THE NEW PARKING IN THE NORTHERN SEGMENT OF THE BROOKSIDE PLAZA LOT, SHALL BE COMPLETED PRIOR TO THE RECONFIGURATION OF THE ENTRANCE ON U.S. ROUTE 5.

PREFABRICATED MULTI-MODAL BRIDGE NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE FIELD REPRESENTATIVE OF THE PREFABRICATED MULTIMODAL BRIDGE. THE INTENT IS TO HAVE THE SUPPLIER REPRESENTATIVE VISIT THE SITE PRIOR TO INSTALLATION OF THE BRIDGE TO ENSURE THAT ABUTMENTS AND OTHER APPLICABLE CONDITIONS ARE SUITABLE FOR INSTALLATION OF THE BRIDGE.
- THE BRIDGE SEAT DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THESE DIMENSIONS AS NECESSARY TO PROPERLY ACCOMMODATE THE REQUIREMENTS OF THE SPECIFIC TYPE OF PREFABRICATED BRIDGE. ANY ADJUSTMENTS IN THE DIMENSIONS OR ELEVATIONS SHALL BE CLEARLY INDICATED ON FABRICATION DRAWINGS.
- BRIDGE BEARINGS AND ANCHOR BOLTS ARE NOT SHOWN ON THESE PLANS FOR CLARITY. THE CONTRACTOR SHALL ENSURE THAT ALL ANCHOR BOLT INFORMATION IS CLEARLY INDICATED ON THE FABRICATION DRAWINGS.
- LUMP SUM COST FOR ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE", SHALL INCLUDE ALL COSTS FOR MATERIAL AND WORK REQUIRED TO DELIVER, INSTALL AND CONSTRUCT BRIDGE AT SITE.
- CONDUIT AND NECESSARY BRACKETS AND OTHER ITEMS FOR INSTALLATION OF CONDUIT UNDER BRIDGE TO BE SUPPLIED AND INSTALLED BY BRIDGE SUPPLIER AND TO BE PAID INCIDENTAL TO ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE".

UTILITY RELOCATION NOTES

- THE CONTRACTOR SHALL CONTACT DIG-SAFE AND REQUEST MARKING OF ALL BURIED UTILITIES WITHIN THE PROJECT LIMITS PRIOR TO ANY EXCAVATION.
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS IS APPROXIMATE AND MAY NOT SHOW ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO EXCAVATION ACTIVITIES.
- NO UTILITIES ARE TO BE DISTURBED WITHOUT PRIOR WRITTEN CONSENT FROM THE UTILITY OWNER. ANY DAMAGE TO EXISTING UTILITIES AS A RESULT OF CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE SOLE COST OF THE CONTRACTOR.
- THE CONTRACTOR SHALL CONTACT THE TOWN OF BRATTLEBORO PUBLIC WORKS DIRECTOR, CENTRAL VERMONT PUBLIC SERVICE, VERIZON AND ADELPHIA REPRESENTATIVES AND ANY OTHER APPROPRIATE PARTY (IE: PROPANE GAS SUPPLIER FOR BAST BUILDING) RELATIVE TO UTILITIES, ARRANGE AND ATTEND A PRE-CONSTRUCTION MEETING TO DISCUSS UTILITIES AND RELOCATION PRIOR TO EXCAVATION ACTIVITIES OR ORDERING UTILITY RELATED MATERIALS (IE: CONDUIT AND WIRING, MOUNTING BRACKETS, ETC).
- THE CONTRACTOR IS RESPONSIBLE FOR THE INITIAL AND CONTINUED COORDINATION WITH UTILITY OWNERS TO ENSURE THAT THE SCHEDULING OF UTILITY WORK RESULTS IN THE SMOOTH PROGRESSION OF THE PROJECT.
- ALL ELECTRICAL WORK PERFORMED BY THE CONTRACTOR SHALL BE DONE BY A QUALIFIED VERMONT LICENSED ELECTRICIAN AND WILL BE IN ACCORDANCE WITH APPLICABLE TOWN, STATE AND NATIONAL ELECTRICAL CODES.
- THE CONTRACTORS ATTENTION IS DIRECTED TO THE CLOSE PROXIMITY OF THE EXISTING TOWN OWNED SANITARY SEWER LOCATED IN THE PRESTON PARKING LOT TO THE LIMITS OF EXCAVATION FOR ABUTMENT 1. THE CONTRACTOR SHALL DISCUSS THIS ISSUE WITH THE RESIDENT ENGINEER AND CONFIRM HIS ABILITY TO EXCAVATE THE SOIL AND CONSTRUCT THE FOOTING WITHOUT DAMAGING THE SEWER LINE.
- THE CONTRACTORS ATTENTION IS ALSO DIRECTED TO THE BACKSIDE OF THE BAST BUILDING (FACING WHETSTONE BROOK) IN THE VICINITY OF THE NEW PRIMARY UNDERGROUND ELECTRICAL TRENCH. THE CONTRACTOR IS ADVISED OF THE PRESENCE OF PROPANE GAS AND ELECTRICAL SERVICE LINES AND METERS LOCATED ON THE WALL OF THE BUILDING. THE LOCATION OF THESE SERVICES IS NOT SHOWN ON THE PLANS.
- THE LOCATION OF THE PRIMARY UNDERGROUND ELECTRICAL TRENCH FROM POLE NO. 5-1-1 (BEHIND THE BAST BUILDING) IS APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH THE APPROPRIATE UTILITY OWNERS (CVPS, PROPANE GAS SUPPLIER, DIG-SAFE) AND IDENTIFYING AND MARKING THE LOCATION OF THIS TRENCH IN THE FIELD PRIOR TO ANY EXCAVATION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND BACKFILLING OF THE PRIMARY UNDERGROUND ELECTRICAL TRENCH AND FOR ASPHALT PAVING OVER THE TRENCH IN ACCORDANCE WITH THE TYPICAL DETAIL SHOWN IN THESE PLANS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING THE PROPER AMOUNT OF CONDUIT AND MOUNTING BRACKETS FOR POLE 5-1-1 AND NEW POLE 1C. ELECTRICAL WARNING TAPE AND ALL OTHER MATERIALS NECESSARY TO INSTALL THE PRIMARY POWER AS REQUIRED BY CVPS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR CONCRETE CORING AND SEALING A SMALL HOLE THROUGH THE EXISTING CONCRETE WALL AT STATION 1+102 LEFT TO ALLOW PENETRATION OF THE PRIMARY ELECTRICAL POWER CONDUIT TO THE NEW POLE 1C.
- CENTRAL VERMONT PUBLIC SERVICE COMPANY (CVPS) WILL BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF THE PRIMARY POWER WIRE FROM POLE 5-1-1 TO THE NEW POLE 1C WHICH WILL REPLACE EXISTING POLE 1C. CVPS WILL ALSO BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF NEW POLE 1C.
- CENTRAL VERMONT PUBLIC SERVICE COMPANY IS RESPONSIBLE FOR THE REMOVAL OF EXISTING UTILITY POLES AND OVERHEAD LINES AND FOR THE PLACEMENT OF NEW UTILITY POLES IDENTIFIED ON THESE PLANS.
- OVERHEAD LINES BETWEEN THE FOLLOWING UTILITY POLES ARE TO BE REMOVED; NO. 5-1-1 TO NO. 6-1D, NO. 6-1D TO NO. 1C, NO. 1C TO NO. 1B 1/2S NET&T, NO. 1B 1/2S NET&T TO NO. 1/2 1A NET&T. UTILITY POLES ARE TO REMAIN, BE REPLACED OR REMOVED AS SHOWN ON THE PLANS.
- POLE 1/2 1A NET&T SHALL REMAIN IN PLACE AND PROVIDE ELECTRICAL SERVICE UNTIL THE NEW UNDERGROUND ELECTRICAL SERVICE FROM POLE 5-1-1 IS INSTALLED AND OPERATIONAL. UPON COMPLETION OF THE NEW UNDERGROUND ELECTRICAL SERVICE LINE FROM STA. 1+105 LEFT TO STA. 1+144 LEFT, ELECTRICAL SERVICE WILL BE SWITCHED FROM POLE 1/2 1A NET&T TO THE NEW UNDERGROUND ELECTRICAL LINE. ONCE SERVICE HAS BEEN TRANSFERRED, POLE 1/2 1A NET&T SERVICE WILL BE DISCONNECTED AND THE POLE WILL BE REMOVED.
- THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL NECESSARY MATERIALS TO SWITCH POWER FROM POLE 1/2 1A NET&T TO THE NEW UNDERGROUND SERVICE. CVPS IS RESPONSIBLE FOR THE REMOVAL OF POLE 1/2 1A NET&T AND THE ASSOCIATED OVERHEAD LINES.
- THE EXISTING ELECTRICAL CONTROL PANEL NEAR STA. 1+102 LEFT IS TO BE REMOVED AND REPLACED. 5 NEW ELECTRICAL CIRCUITS SHALL BE UTILIZED TO PROVIDE SERVICE ASSOCIATED WITH THIS PROJECT. SEE LIGHTING PANEL DETAILS SHEET 14. THE PANEL SHALL BE LOCATED NEAR STA. 1+102, LEFT, NEAR THE CORNER OF THE CONCRETE WALLS. THE FINAL LOCATION WILL BE DETERMINED BY THE RESIDENT ENGINEER.
- ALL WORK ASSOCIATED WITH REMOVAL OF THE EXISTING SUPPLY AND INSTALLATION OF THE NEW ELECTRICAL CONTROL PANEL, INCLUDING, BUT NOT LIMITED TO, ALL COMPONENTS ILLUSTRATED ON THE ELECTRICAL SERVICE STANCHION DETAILS AND NOTES AND ALL OTHER WORK AND COMPONENTS NOT SHOWN THAT WILL RESULT IN A COMPLETE AND PROPERLY FUNCTIONING ELECTRICAL POWER STANCHION THAT MEETS APPLICABLE ELECTRICAL CODES SHALL BE PAID FOR UNDER ITEM 679.28 "POWER STANCHION".
- ALL TRENCH EXCAVATION AND BACKFILLING FOR PRIMARY AND SECONDARY ELECTRICAL POWER WILL BE PAID FOR UNDER PAY ITEMS 203.31, "SAND BORROW", 204.20, "TRENCH EXCAVATION OF EARTH", 301.26 "SUBBASE OF CRUSHED GRAVEL (FINE GRADED)", 406.25 "BITUMINOUS CONCRETE PAVEMENT", 678.21, "ELECTRICAL CONDUIT" AND 678.23, "WIRED CONDUIT." WARNING TAPE, COORDINATION AND COMMUNICATIONS, MOUNTING BRACKETS, CONCRETE CORING AND SEALING AND ALL OTHER WORK NECESSARY TO INSTALL THE ELECTRICAL WORK SHALL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO THE ABOVE REFERENCED PAY ITEMS.
- THE CONTRACTORS ATTENTION IS DIRECTED TO THE EXISTING UNDERGROUND CONCRETE TELEPHONE VAULT OWNED BY VERIZON, LOCATED NEAR STA. 1+145 RIGHT. THE EXISTING ACCESS MANHOLE IS LOCATED IN THE SIDEWALK. THE SIDEWALK IS TO BE REMOVED AND CONVERTED TO PART OF THE ENTRANCE INTO THE BAST PARKING LOT. VERIZON REPRESENTATIVES HAVE CONFIRMED THAT THE ACCESS MANHOLE CAN BE LOWERED TO ROAD GRADE ELEVATION AND THE VAULT WILL NOT BE IMPACTED AS A RESULT.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING WITH VERIZON OFFICIALS REGARDING THE SCHEDULING OF THIS WORK. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF THE EXISTING CONCRETE SIDEWALK, INCLUDING EXPOSURE OF THE ACCESS MANHOLE SUFFICIENT FOR VERIZON TO LOWER THE ACCESS MANHOLE TO THE NEW ROAD GRADE AND THEN CONSTRUCTION OF THE NEW ENTRANCE. VERIZON IS RESPONSIBLE FOR THE WORK TO LOWER THE ACCESS MANHOLE.

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.

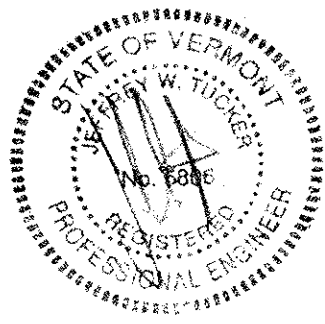
SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

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.

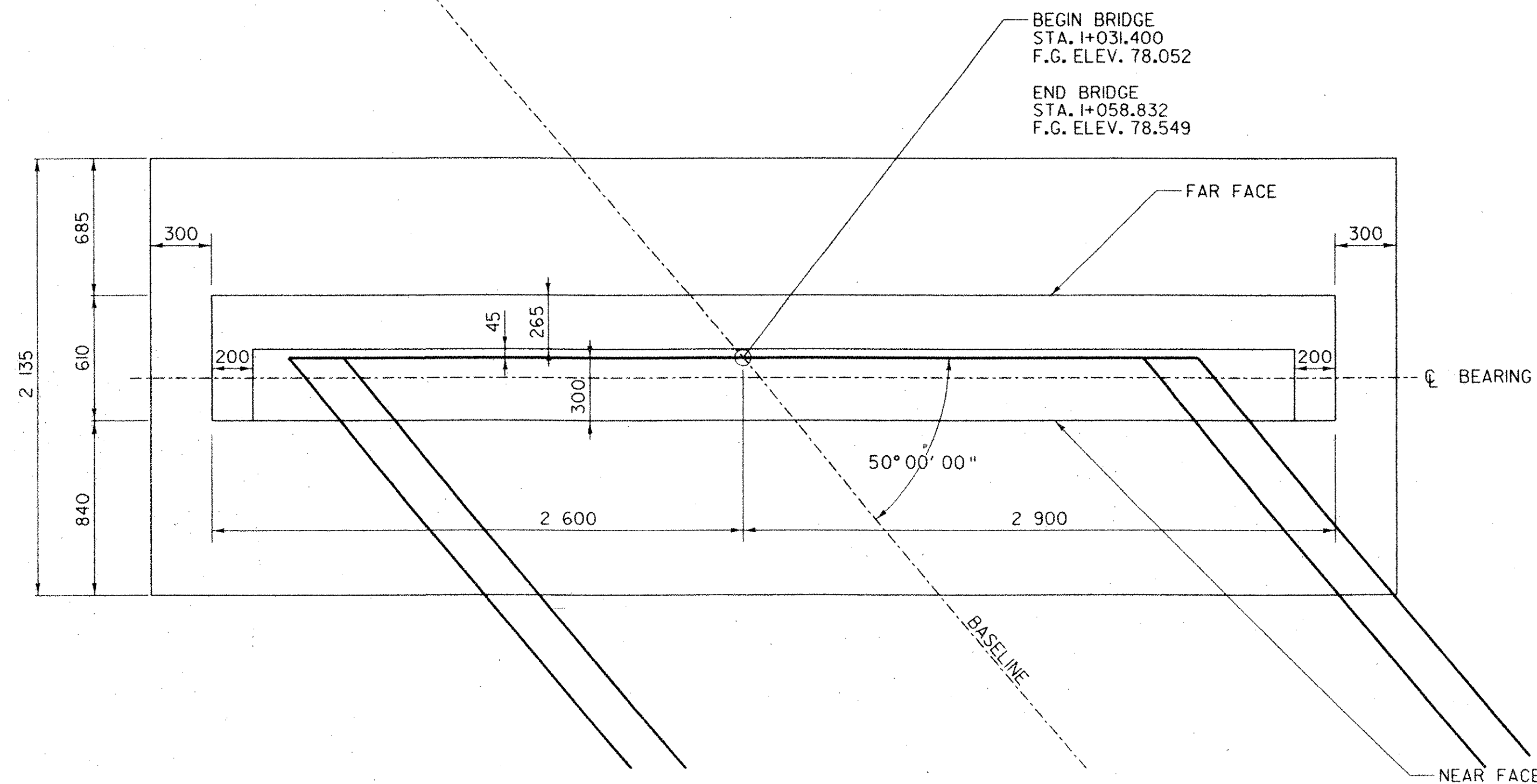
HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 4500 kg/ha, OR AS DIRECTED BY THE ENGINEER.

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



PLOTTED: 03/11/2004

 engineering planning management development	TOWN OF BRATTLEBORO BRATTLEBORO, VERMONT		DRAWN BY SJB	DATE FEB. 2004
	WHETSTONE BROOK PATHWAY PROJECT STP BIKE (27) S		CHECKED BY JK	PROJ. NO. R16544
	GENERAL NOTES SHEET		PROJ. ENG. SJB	DRAW. NO. 11447
			SHEET 19	OF 30

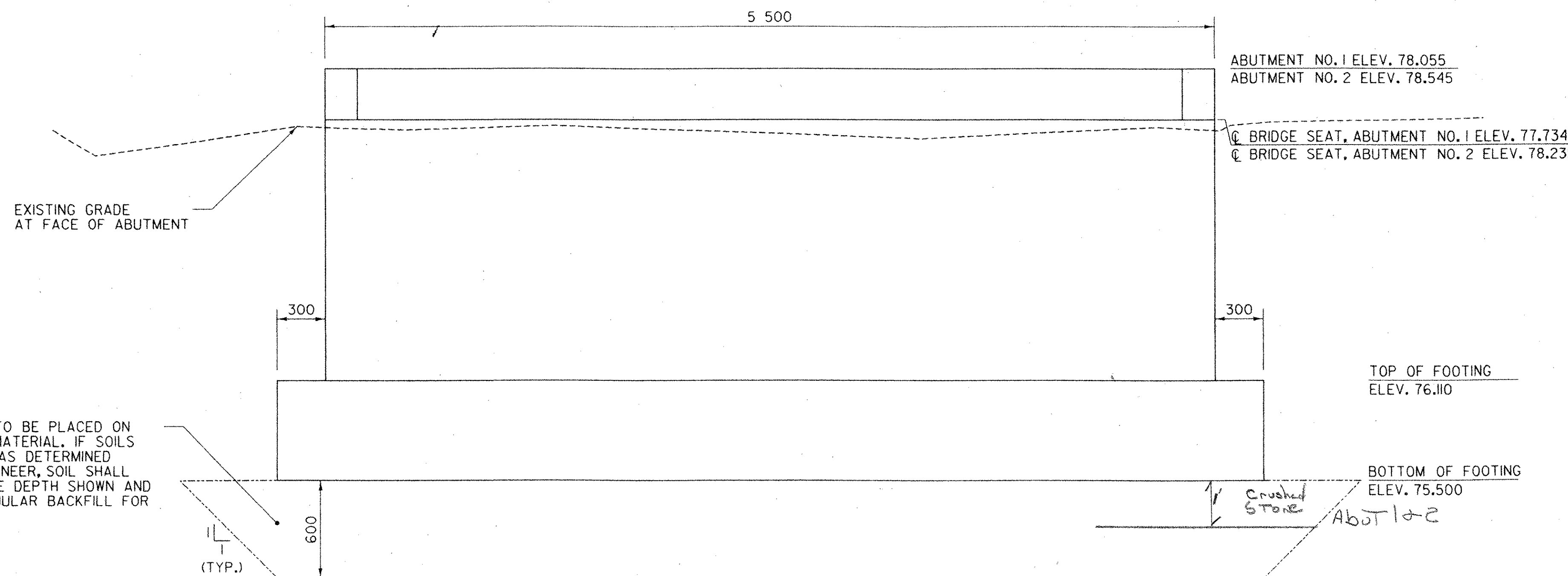


PLAN

0 1 2

SCALE = 1:20

APPROXIMATE LOCATION OF
EXISTING SEWER LINE TO
REMAIN UNDISTURBED.



ELEVATION

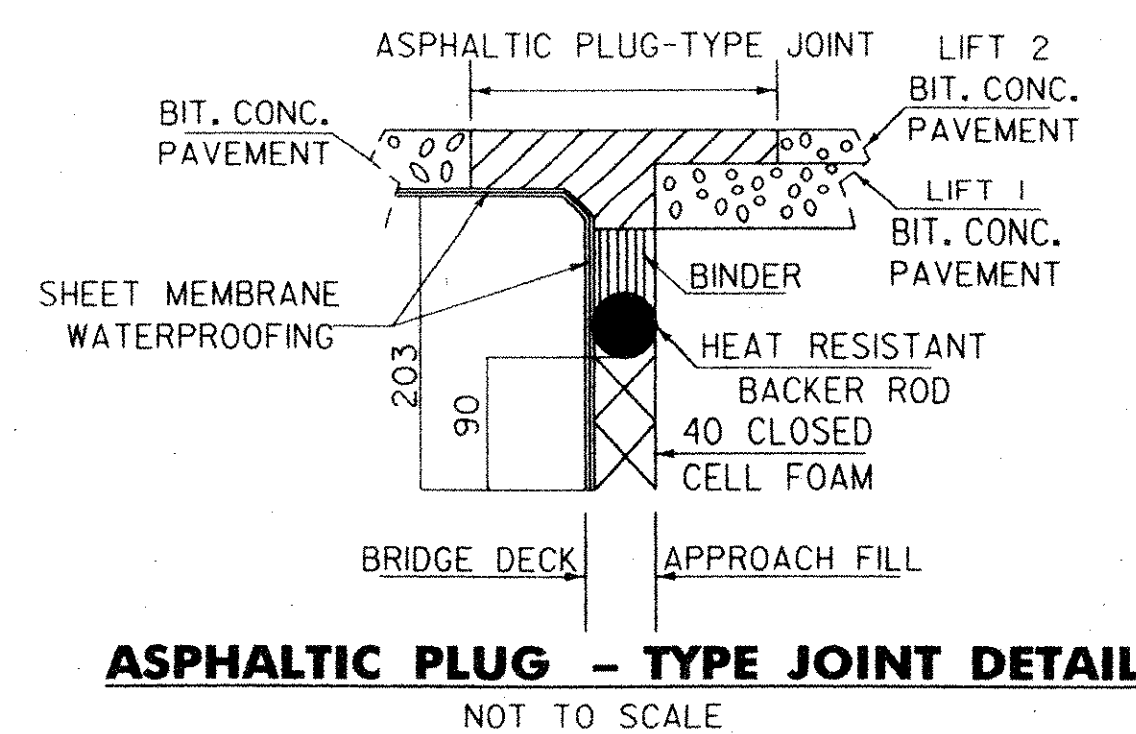
0 1 2

SCALE = 1:20

BOTTOM OF FOOTING TO BE PLACED ON
COMPETENT FOOTING MATERIAL. IF SOILS
ARE NOT COMPETENT, AS DETERMINED
BY THE RESIDENT ENGINEER, SOIL SHALL
BE EXCAVATED TO THE DEPTH SHOWN AND
BACKFILLED WITH GRANULAR BACKFILL FOR
STRUCTURES.

NOTES:

1. THE CONTRACTOR AND BRIDGE SUPPLIER SHALL REVISE THE ABUTMENT AND WINGWALL DIMENSIONS FOR COMPATIBILITY OF THE BRIDGE, BRIDGE SEAT AND WINGWALL DIMENSION AS PART OF THE SHOP DRAWING PROCESS. CONTRACTOR SHALL NOTIFY ENGINEER IF THE ABUTMENT DIMENSIONS NEED TO BE MODIFIED TO BE COMPATIBLE WITH THE BRIDGE.
2. SURFACES OF BRIDGE SEATS UNDER BEARING DEVICES SHALL BE LEVEL. OTHER BRIDGE SEAT AREAS SHALL BE SLOPED 42 MILLIMETERS PER METER. ABUTMENT SEATS SHALL BE SLOPED FULL WIDTH TOWARD CENTER SPAN. THE ENTIRE BRIDGE SEAT SURFACE SHALL BE SMOOTHED WITH EITHER A WOOD OR MAGNESIUM FLOAT FINISH.
3. ALL STATIONS ARE GIVEN IN KILOMETERS. ELEVATIONS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

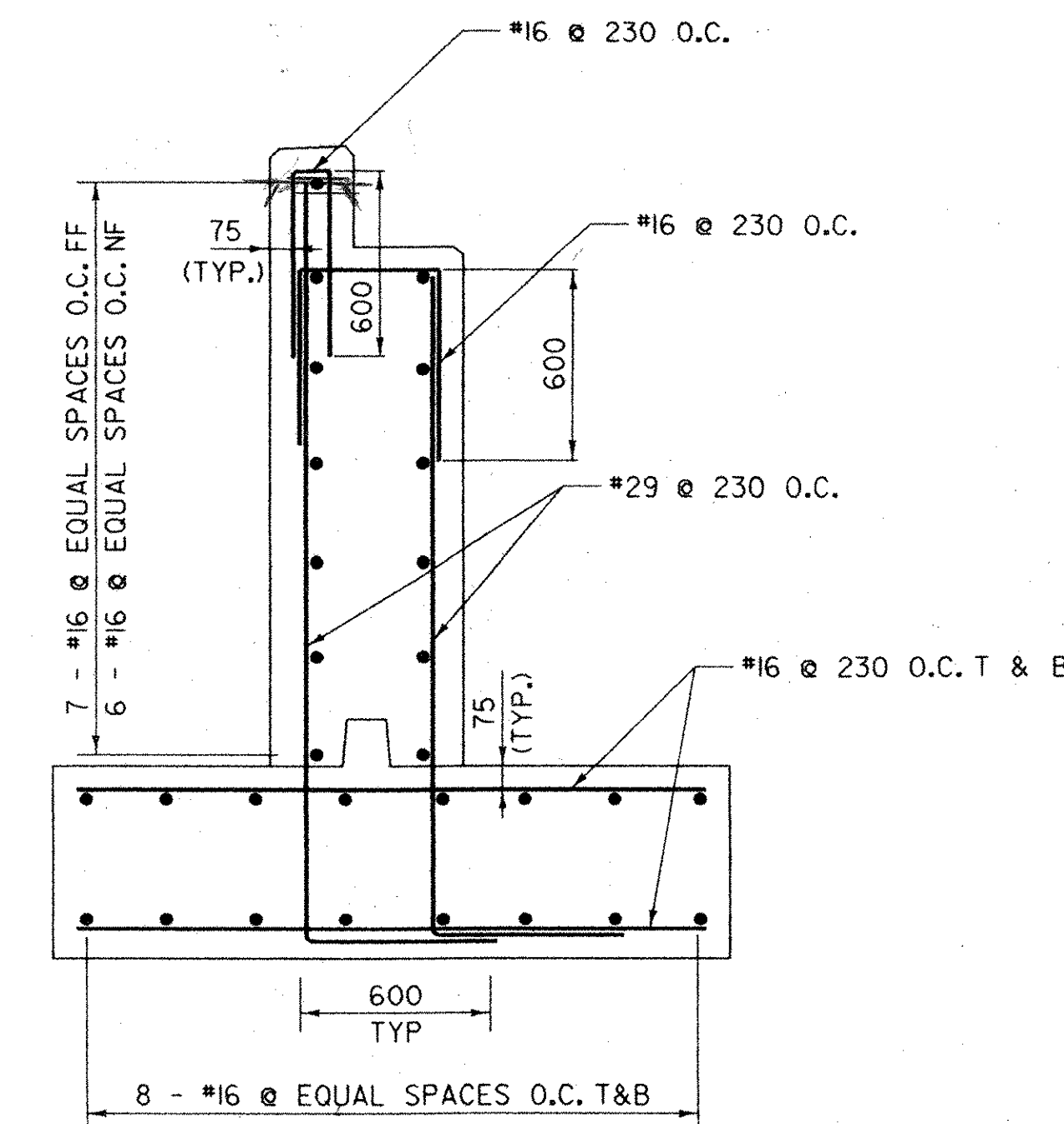


**TYPICAL CONCRETE
CONSTRUCTION JOINT**

NOT TO SCALE



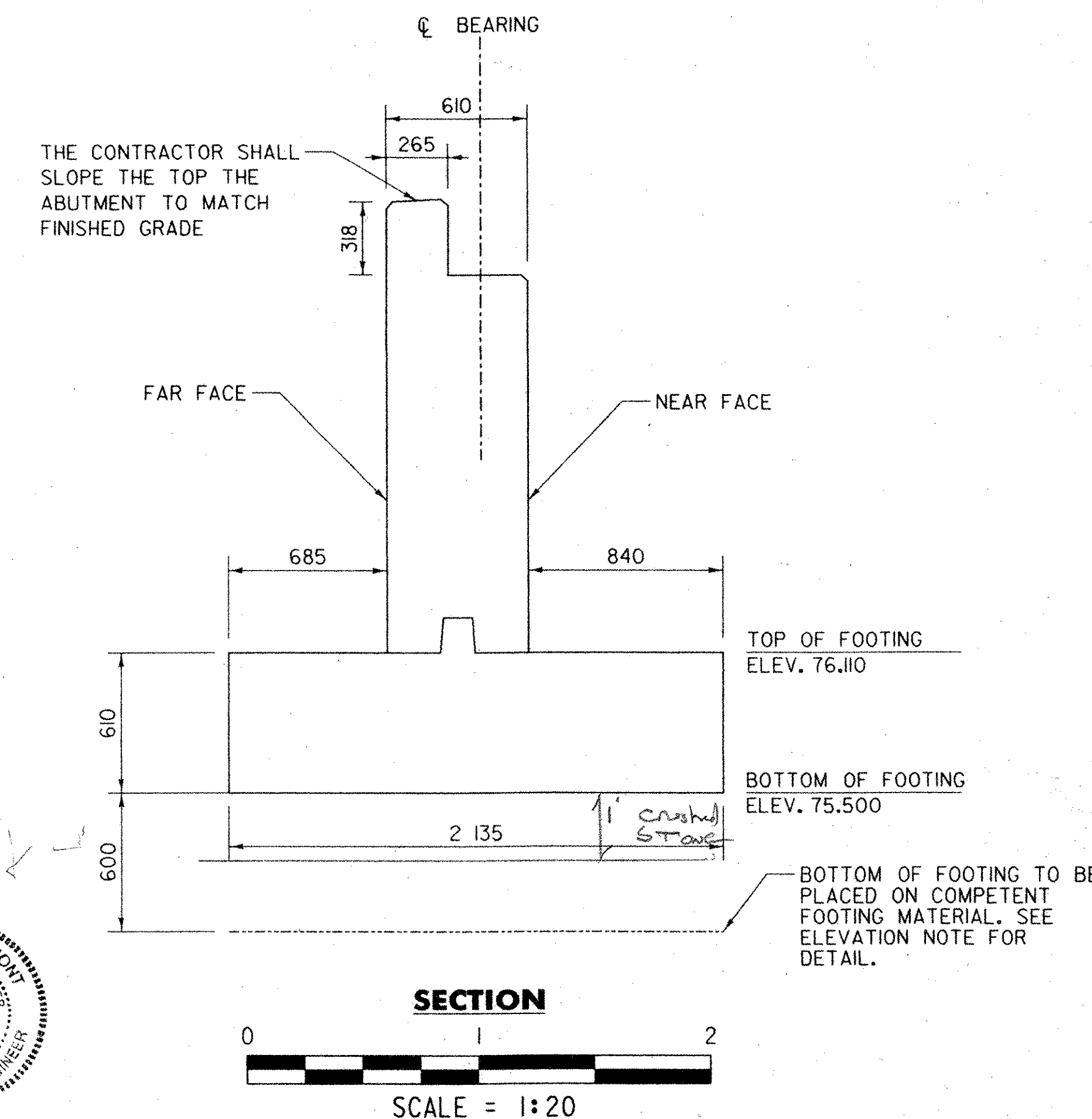
PLOTTED: 03/11/2004



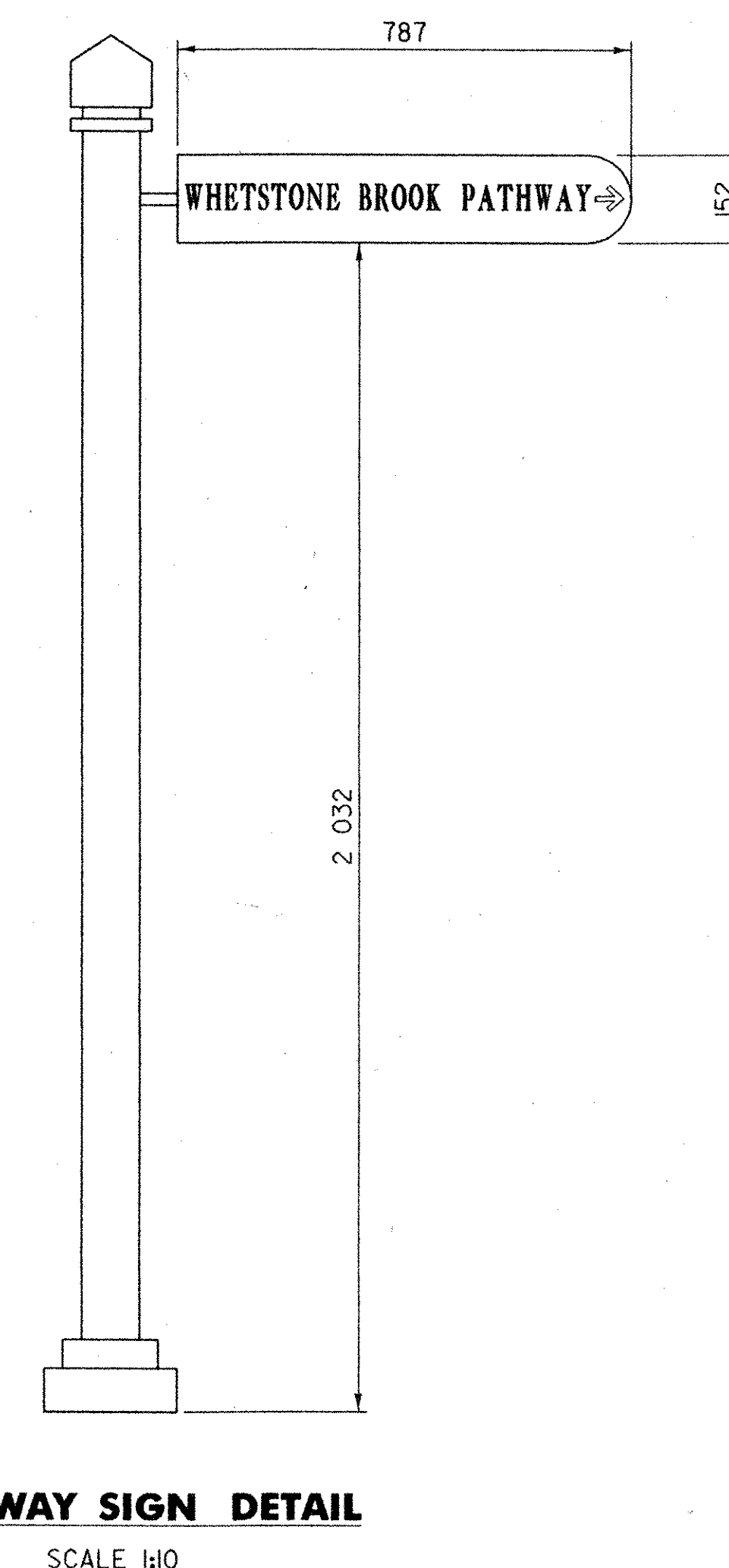
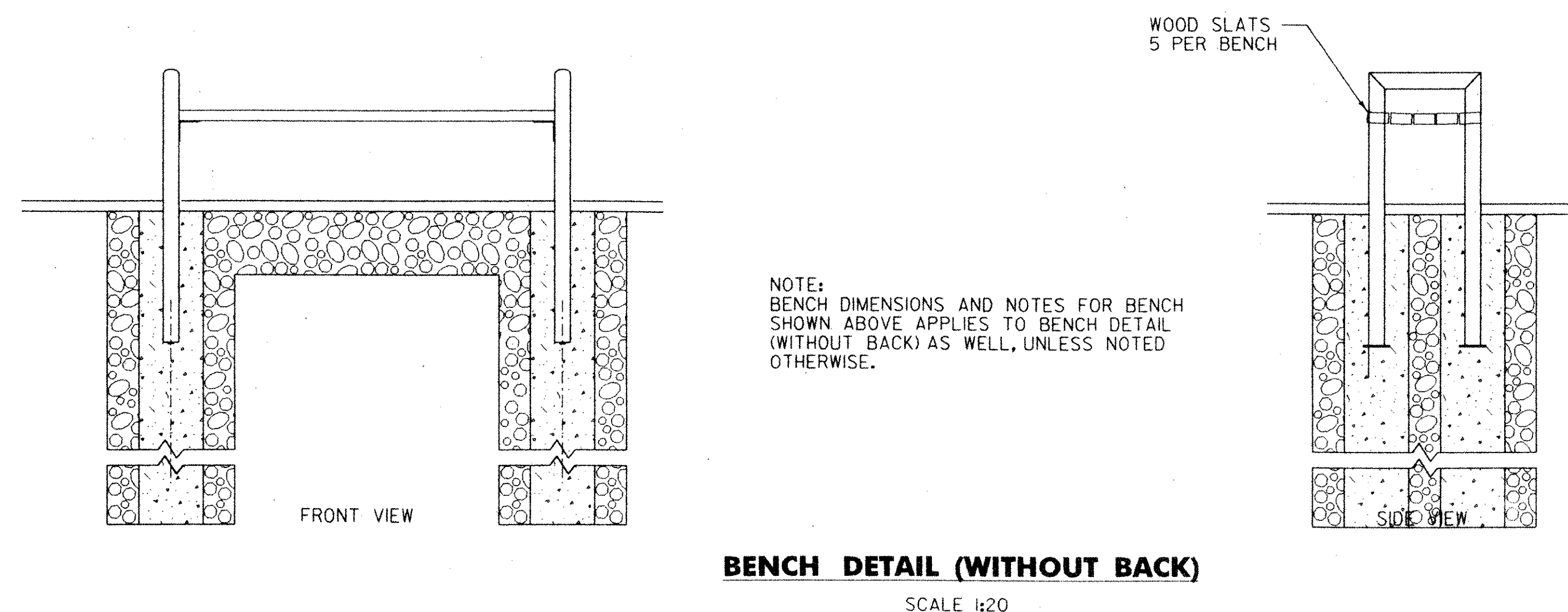
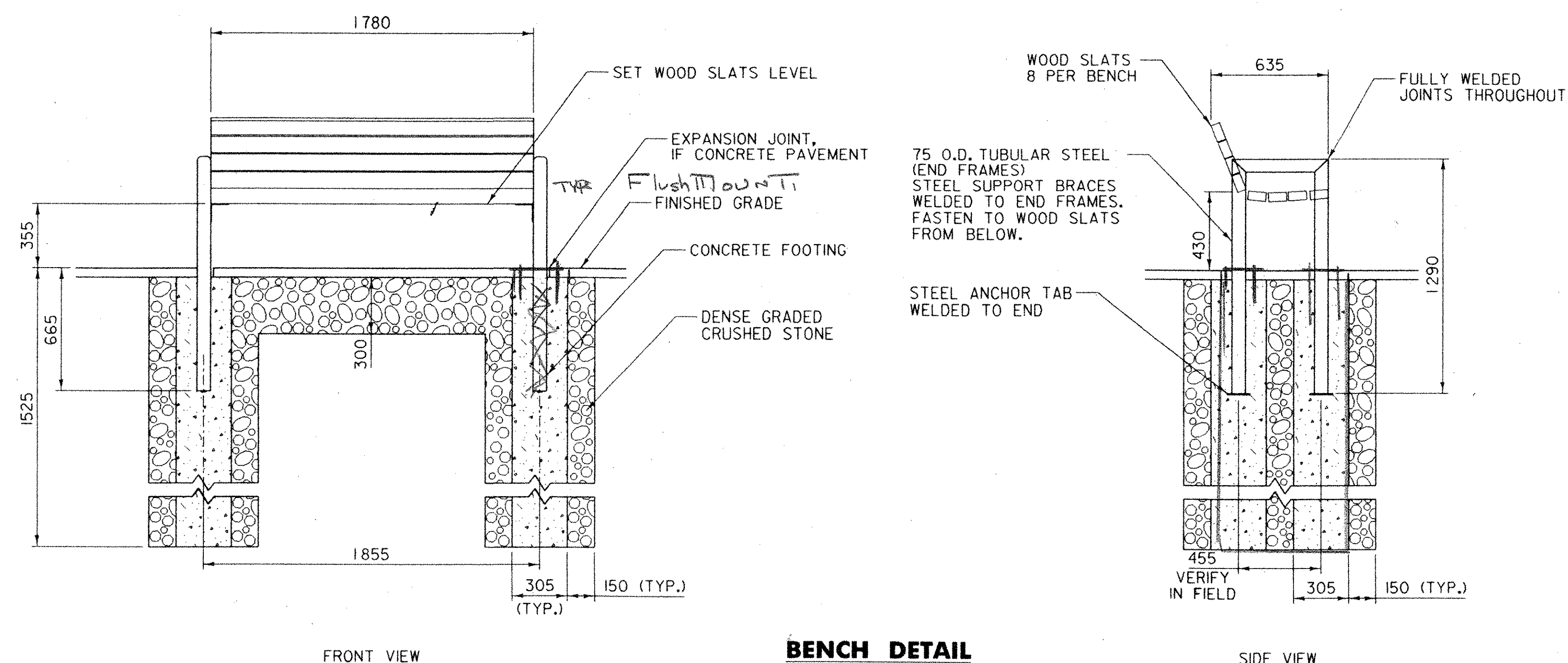
REINFORCING DETAIL

0 1 2

SCALE = 1:20



DuBois & King INC. engineering planning management development	TOWN OF BRATTLEBORO BRATTLEBORO, VERMONT		DRAWN BY SJB	DATE FEB. 2004
	WHETSTONE BROOK PATHWAY PROJECT STP BIKE (27) S		CHECKED BY JAT	PROJ. NO. R16544
	ABUTMENT DETAILS		PROJ. ENG. SDA	DRAW. NO. 11448
			SHEET 20	OF 30

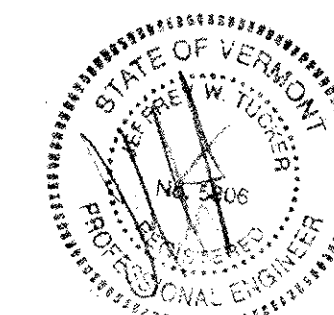


NOTES:

1. BENCH MANUFACTURER, STYLE AND COLOR MUST BE APPROVED BY THE TOWN PRIOR TO INSTALLATION.
2. LOCATION OF BENCHES WITH AND WITHOUT BACKS AS INDICATED ON PLANS.
3. INSTALLATION OF BENCH, INCLUDING CONCRETE FOOTING, DENSE GRADED CRUSHED STONE, STEEL ANCHOR TABS, WELDING OF JOINTS, ETC.) ARE PAID INCIDENTAL TO ITEM 658.20, 'REST AREA BENCH' AND 658.20 'REST AREA BENCH (BENCH WITHOUT BACK)' AS APPLICABLE.
4. BENCH DETAIL DIMENSIONS SHOWN ARE IN MILLIMETERS.

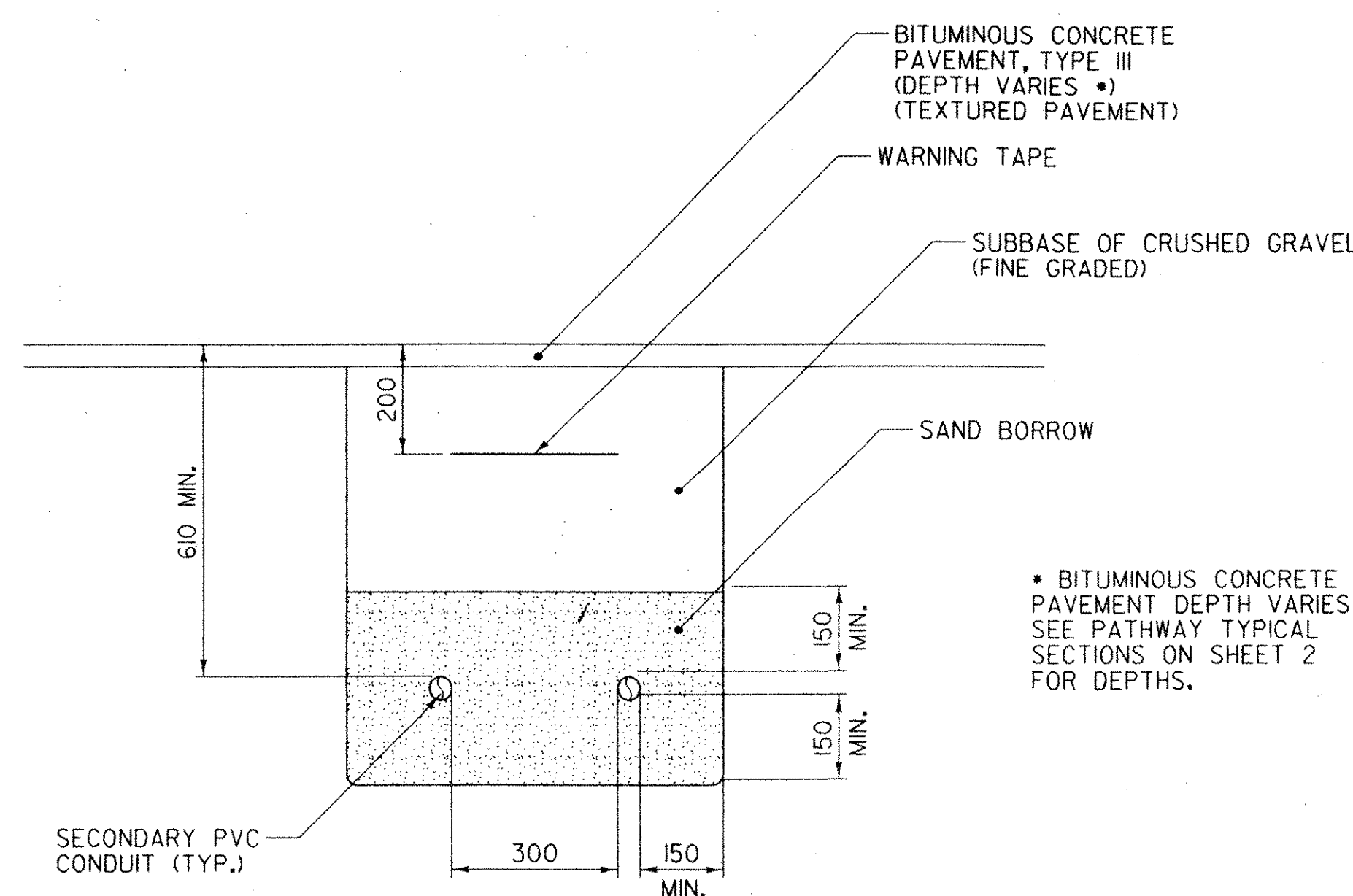
NOTES:

1. SIGN TYPEFACE SHALL BE RAWLINSON OR AS OTHERWISE APPROVED BY THE TOWN OF BRATTLEBORO.
2. SIGN AND SIGN POST SHALL BE IN ACCORDANCE WITH OTHER SIGNING FOR THE TOWN OF BRATTLEBORO. SIGN AND POST MUST BE APPROVED BY THE TOWN OF BRATTLEBORO PRIOR TO INSTALLATION.
3. THE 'WHETSTONE BROOK PATHWAY' SIGN SHALL BE PAID BY ITEM 675.20 'TRAFFIC SIGNS, TYPE A'.
4. SIGN POST AND ALL NECESSARY COSTS INCIDENTAL TO THE POST AND INSTALLATION (I.E. NECESSARY FOUNDATION, POST, MOUNTING BRACKETS BETWEEN SIGN AND POST, ITEMS NECESSARY TO INSTALL POST, ETC.) SHALL BE PAID INCIDENTAL TO ITEM 675.33 'TUBULAR STEEL SIGN POSTS (MOD)'.
5. DIMENSIONS SHOWN ON SIGN DETAIL ARE GIVEN IN MILLIMETERS.



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DuBois & King Inc. engineering planning management development	TOWN OF BRATTLEBORO BRATTLEBORO, VERMONT		DRAWN BY	DATE
	WHETSTONE BROOK PATHWAY PROJECT STP BIKE (27) S		SJB	FEB. 2004
	DETAILS SHEET		CHECKED BY	PROJ. NO.
			SDH	RI6544
		PROJ. ENG.	DRAW. NO.	
		SDH	114119	
		SHEET 21 OF 30		

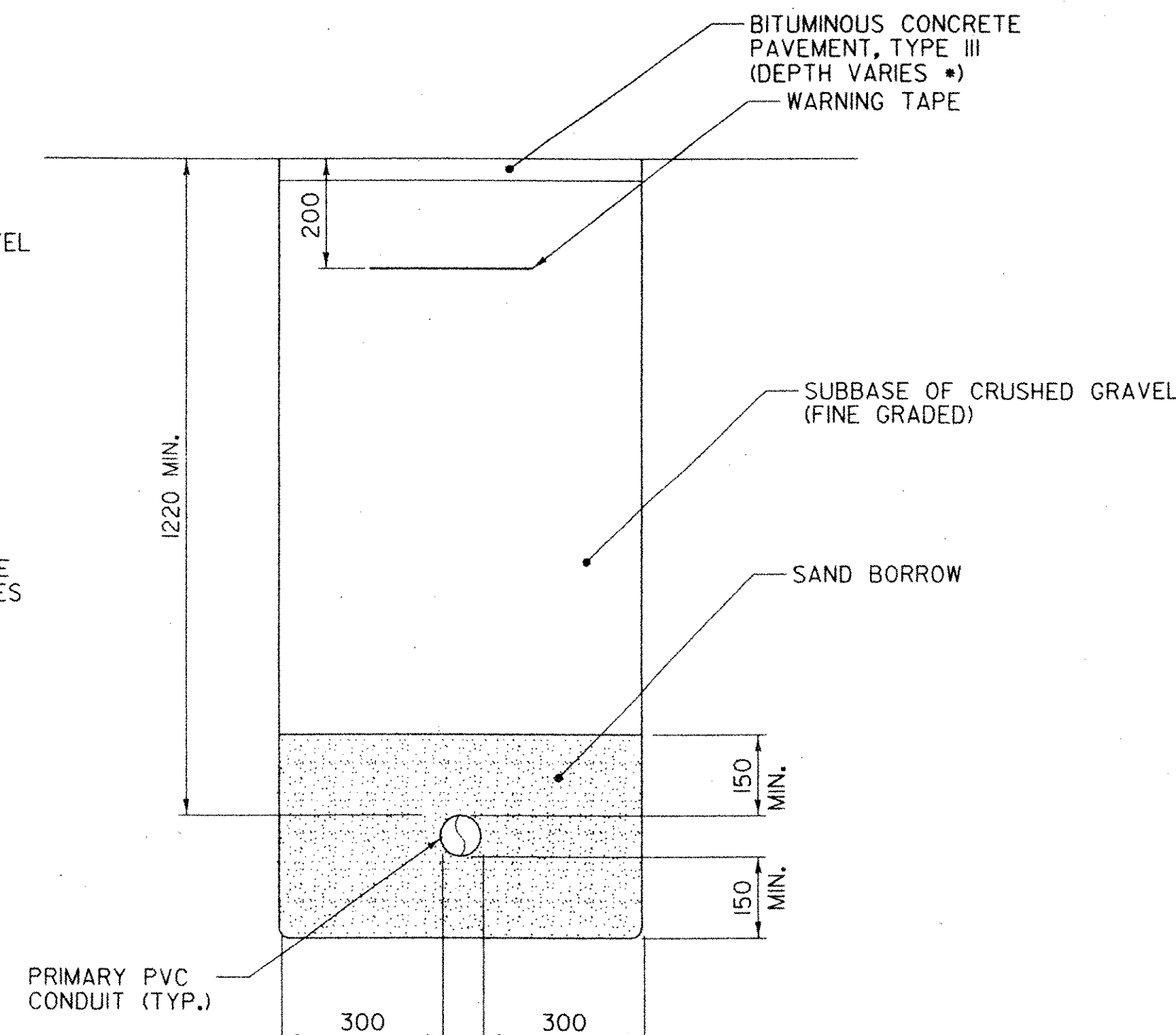


SECONDARY UNDERGROUND ELECTRICAL TRENCH DETAIL

SCALE 1:10

NOTE:

1. REFER TO UTILITY RELOCATION SHEET FOR SIZE AND QUANTITY OF CONDUITS IN TRENCH.



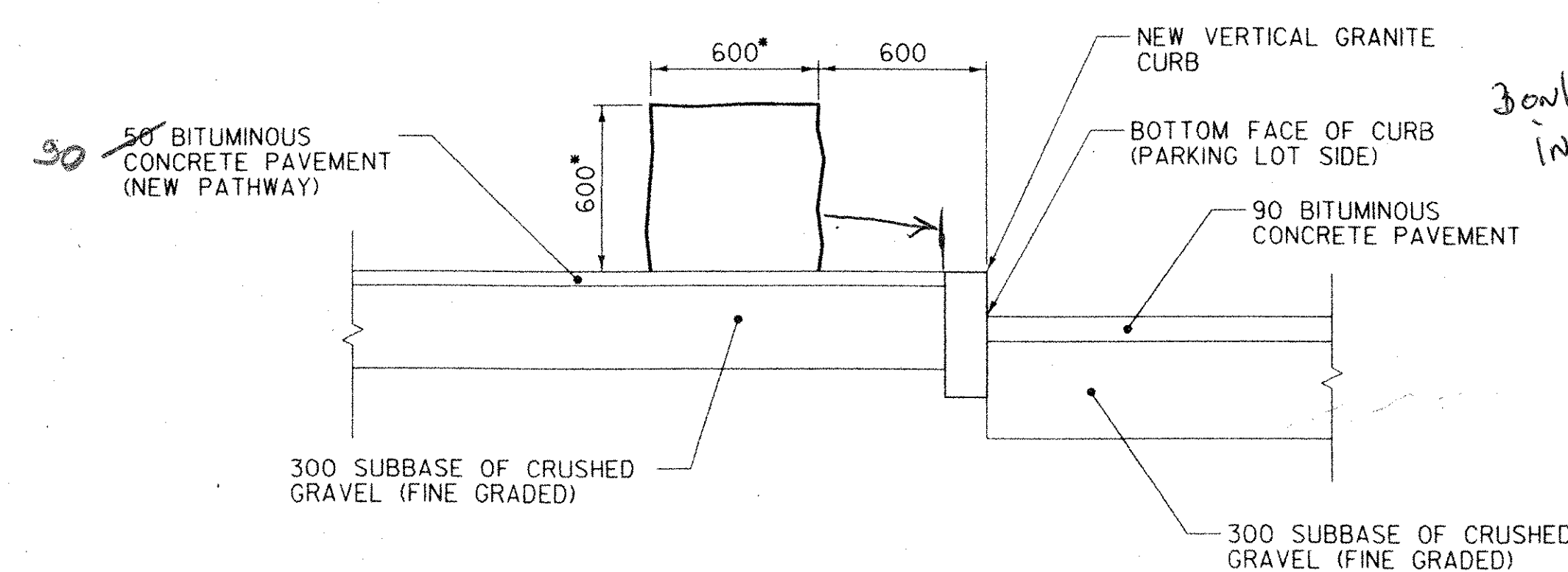
PRIMARY UNDERGROUND ELECTRICAL TRENCH DETAIL

SCALE 1:10

NOTES:

1. REFER TO UTILITY RELOCATION SHEET FOR SIZE AND QUANTITY OF CONDUITS IN TRENCH.
2. PRIMARY CONDUIT RUNS BETWEEN EXISTING POLE NO. 5-I-1 TO THE REPLACED POLE NO. 1C AND TO THE NEW ELECTRICAL CONTROL PANEL, AS SHOWN ON PLANS.

- * DIMENSIONS OF GRANITE BLOCK SHOWN ARE APPROXIMATE AND VARY DEPENDING ON ROCK. LENGTH OF EACH BLOCK IS APPROXIMATELY 1.2m - 1.5m. WIDTH OF BLOCKS BETWEEN STATION 1+17.60 TO 1+36.64 MUST ALLOW FOR A MINIMUM PATHWAY WIDTH OF 1.5 METERS, AND THEREFORE THE WIDTH OF BLOCKS MAY BE LESS THAN 600mm WIDE WITHIN THIS SECTION.



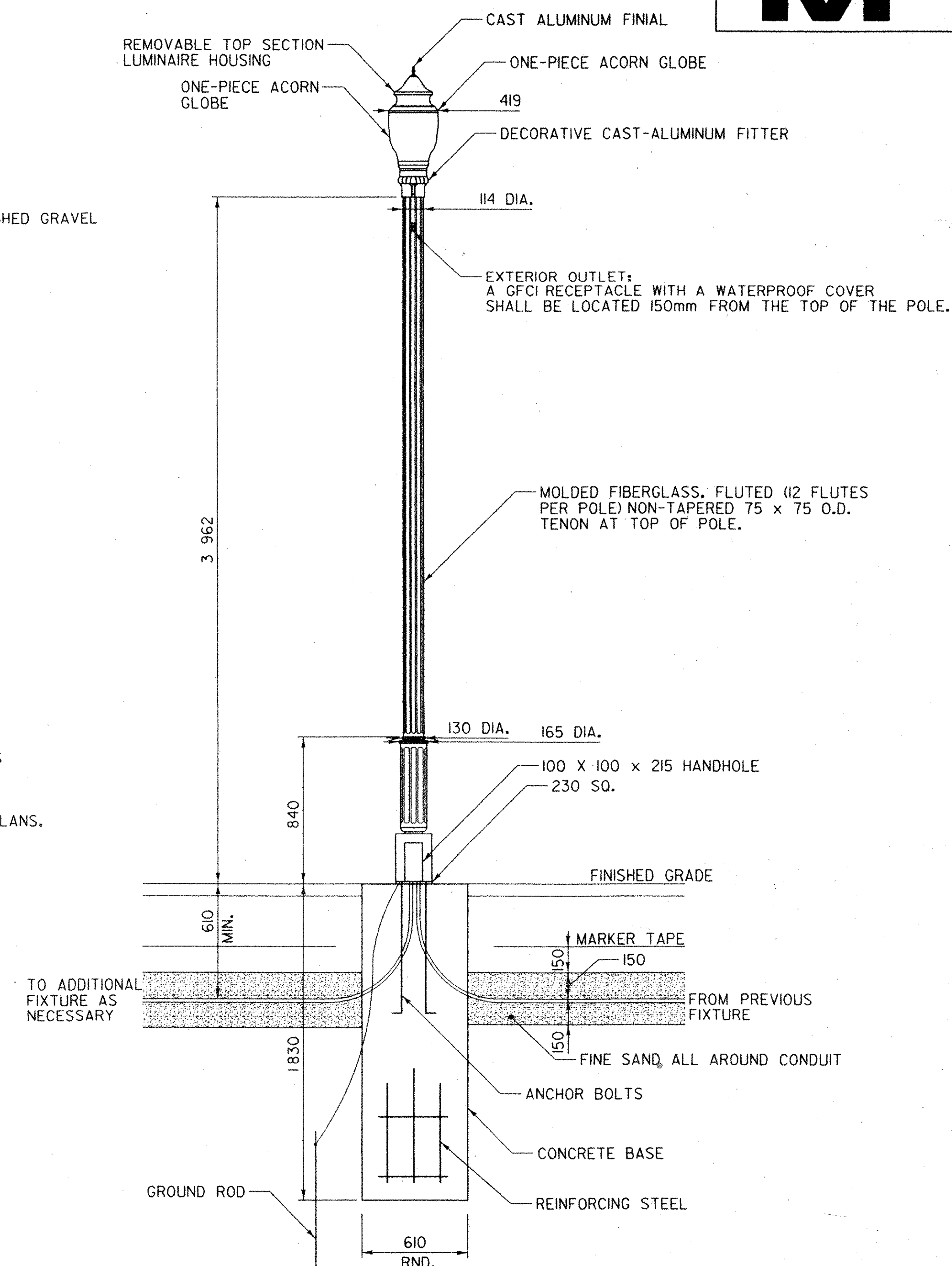
GRANITE BLOCK DETAIL

SCALE 1:20

NOTES:

1. PLANS SHOW SIXTEEN (16) GRANITE BLOCKS, THE TOWN OF BRATTLEBORO CURRENTLY HAS TWELVE GRANITE BLOCKS IN STORAGE TO BE USED FOR THIS PROJECT. IF THESE BLOCKS ARE NOT AVAILABLE AT THE TIME OF THE PROJECT'S CONSTRUCTION, FINAL LOCATION OF THE AVAILABLE BLOCKS SHALL BE APPROVED BY THE TOWN.
2. THE REMAINING FOUR BLOCKS WHICH THE TOWN DOES NOT CURRENTLY HAVE IN STORAGE WILL BE EXCAVATED AS PART OF THIS PROJECT IN THE EXISTING ENTRANCE WAY TO THE BAST PARKING LOT.
3. IF FOUR SUITABLE BLOCKS ARE NOT OBTAINED THROUGH THIS PROJECT THROUGH EXCAVATION IN THE VICINITY OF THE PROPOSED ENTRANCE TO THE BAST PARKING LOT THEN THE TOWN SHALL APPROVE THE FINAL LOCATION OF THE BLOCKS WHICH ARE AVAILABLE FOR THIS PROJECT.
4. THESE BLOCKS ARE TO BE PAID FOR UNDER ITEM 621.85, "GUIDE POSTS (MOD. - GRANITE BLOCK)".
5. ALTERATIONS OF THE LOCATIONS OF THESE BLOCKS MAY BE MADE AT THE TOWN'S REQUEST, PRIOR TO PLACEMENT OF THE BLOCKS.
6. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE TWELVE GRANITE BLOCKS FROM THE TOWN, TRANSPORTING BLOCKS TO THE PROJECT SITE, NECESSARY CLEANING OF THE BLOCKS AND PLACING THE BLOCKS IN THE PROPER LOCATIONS.

ALL DIMENSIONS SHOWN ON THIS SHEET ARE IN MILLIMETERS.

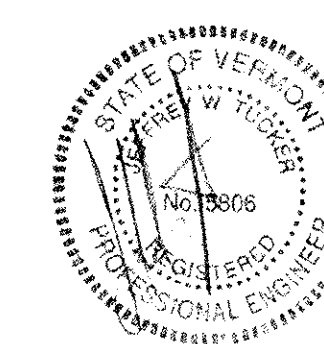


COLONIAL STYLE LIGHT FIXTURE DETAIL

NOT TO SCALE

NOTES:

1. LIGHT POST AND FIXTURE ARE TO BE MANUFACTURED BY MOLDCAST AND HAVE A WASHINGTON CONTRACTLINE GLOBE (WCC). ADDITIONAL REQUIRED OPTIONS INCLUDE A CA FILIGREE BASKET (ALF) AND A PULSE START BALLAST (PSB). POSTS ARE TO BE BLACK (BLK) IN COLOR. MOLDCAST CATALOG NUMBER FOR EACH LUMINAIRE IS WCC-175MH-MT-ALF-PTA-BLK W/ POST TOP ADAPTOR FOR 75mm OD MNT. EACH LUMINAIRE SHALL INCLUDE A 175MH LAMP AND 175MH PS LAMP.
2. PHOTOCELLS ON THE ELECTRICAL SERVICE STANCHION SHALL ACTIVATE THE LUMINAIRE. SEE SHEET 14 FOR DETAILS.
3. PROVIDE HAND RUBBED FINISH ON ALL EXPOSED SURFACES OF CONCRETE BASE.
4. LIGHT POLE GROUND CONDUCTOR, * 8 AWG.
5. BASE REINFORCING: 12 #13 VERTICAL, 1#13 HORIZONTAL, 300 O.C.
6. COMPACT BACKFILL AROUND CONCRETE BASE TO 95% MAXIMUM DENSITY STANDARD PROCTOR.
7. THE BROOKSIDE PLAZA PARKING LOT LIGHTS ARE THE SAME AS THE COLONIAL STYLE LIGHT FIXTURE DETAIL SHOWN ABOVE EXCEPT THE CONCRETE BASE WILL HAVE A ONE-METER REVEAL. THE POLE ITSELF WILL BE 914mm SHORTER THAN THE PATHWAY LIGHT POLES SO THAT THE BASE OF THE GLOBE WILL BE AT THE SAME HEIGHT ABOVE FINISHED GRADE.
8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE LIGHT FIXTURE, POLE, GLOBE AND RELATED APPURTENANCES TO THE TOWN FOR REVIEW AND APPROVAL PRIOR TO ORDERING THE LIGHTS.



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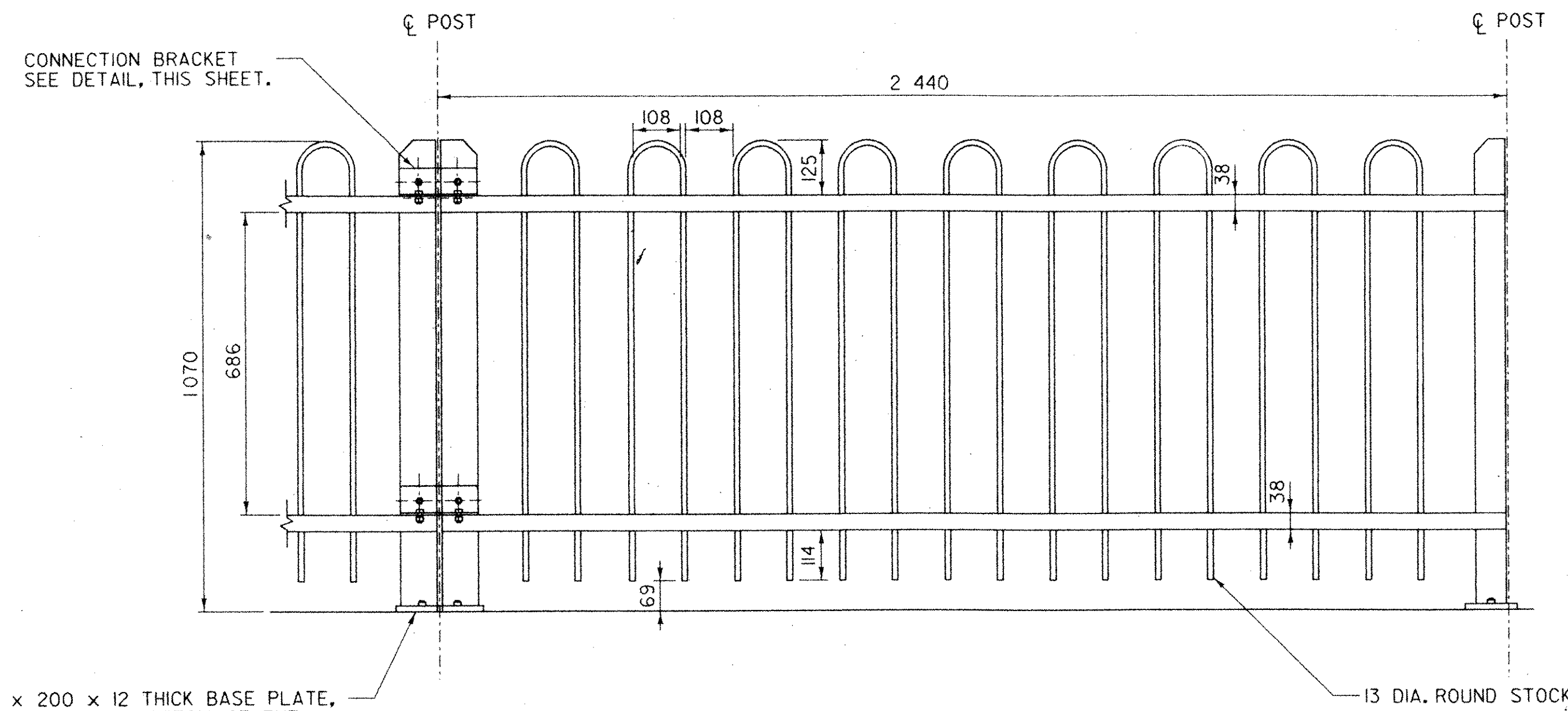
engineering planning management development

TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT

WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S

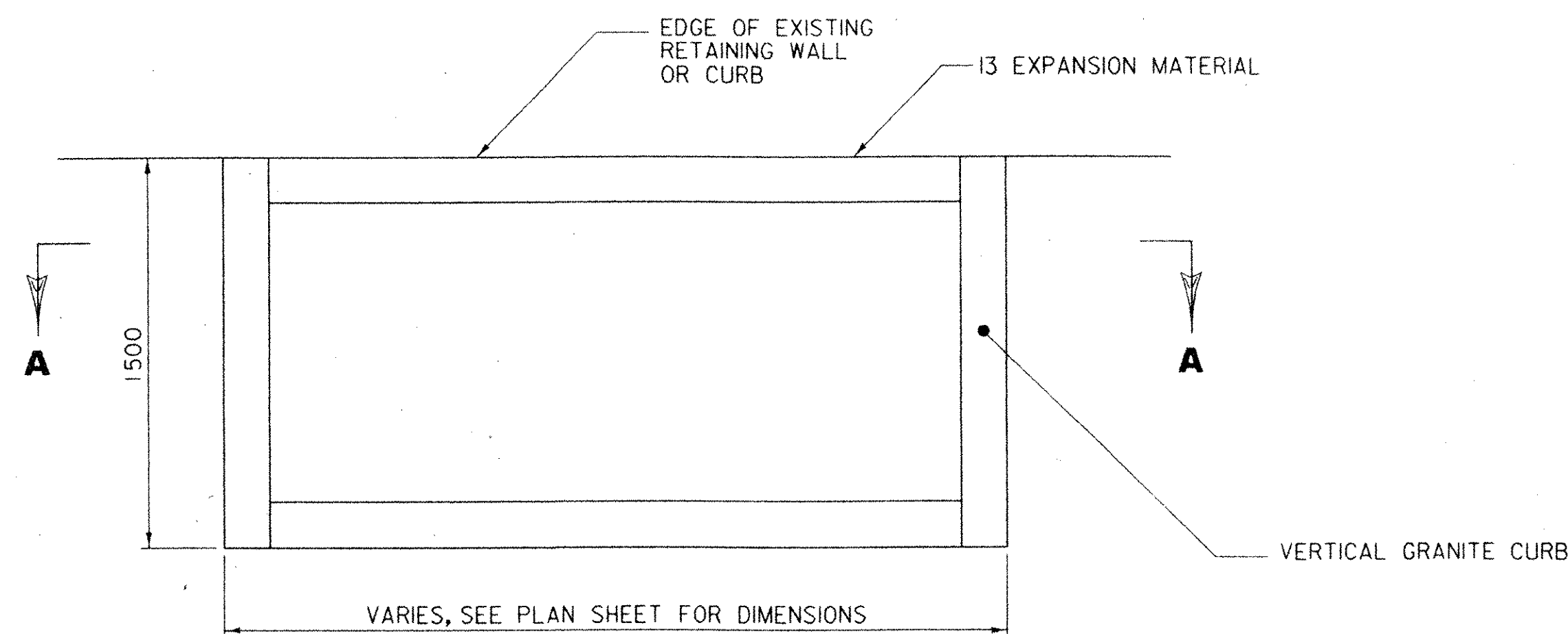
DETAILS SHEET

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CHECKED BY <i>[Signature]</i>	PROJ. NO. RI6544
PROJ. ENG. JDA	DRAW. NO. 11450
SHEET 22 OF 30	

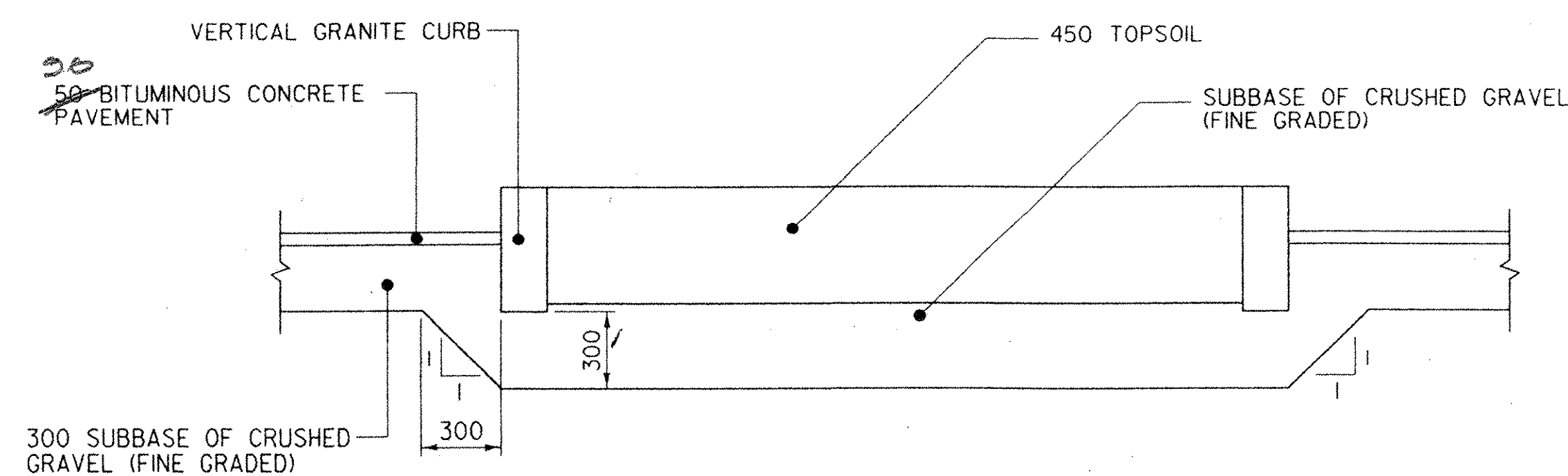


200 x 200 x 12 THICK BASE PLATE, WELDED TO THE BOTTOM OF THE FENCE POSTS AND BOLTED TO THE TOP OF THE CONCRETE WALL, OR FINISHED GRADE, WITH TWO BOLTS. SEE BASE PLATE DETAIL THIS SHEET.

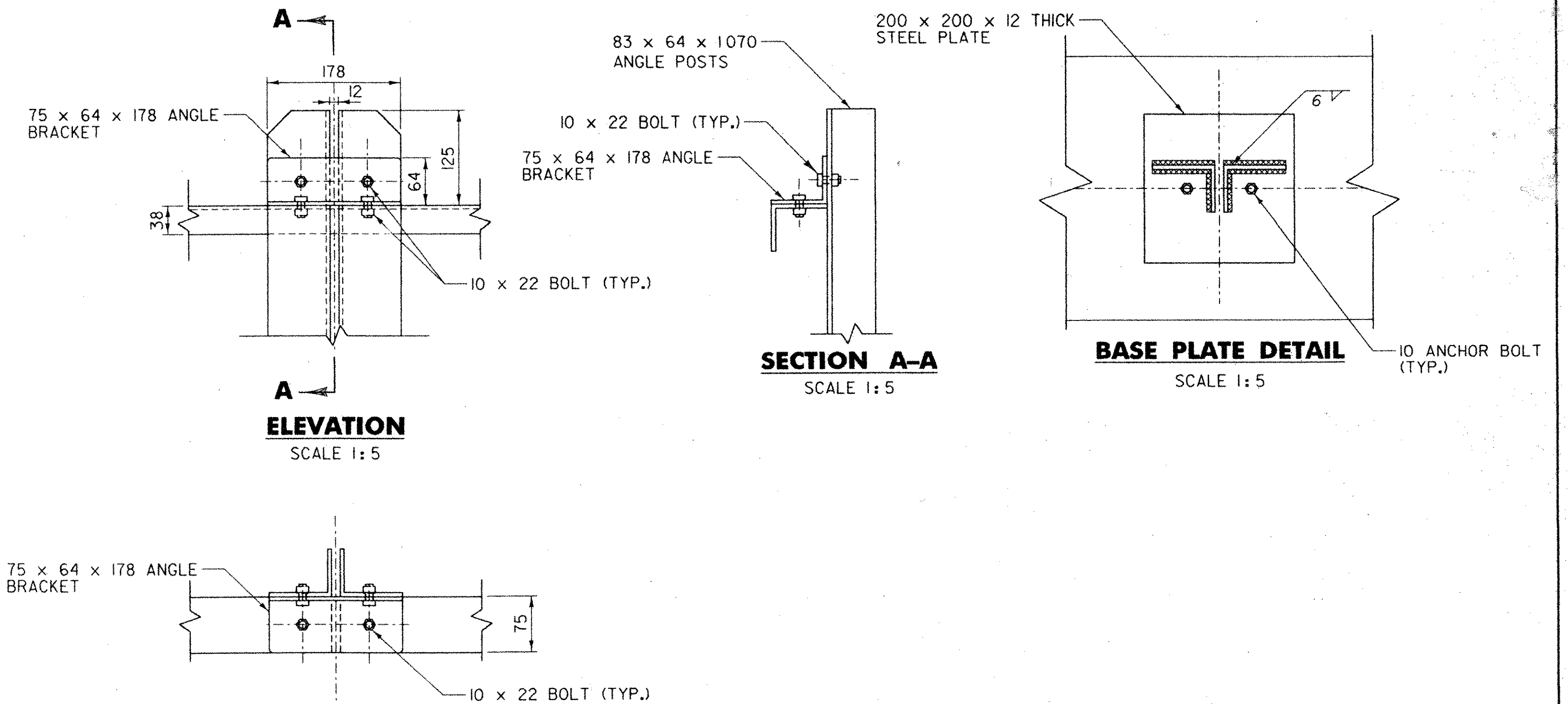
FENCE ELEVATION
SCALE 1:10



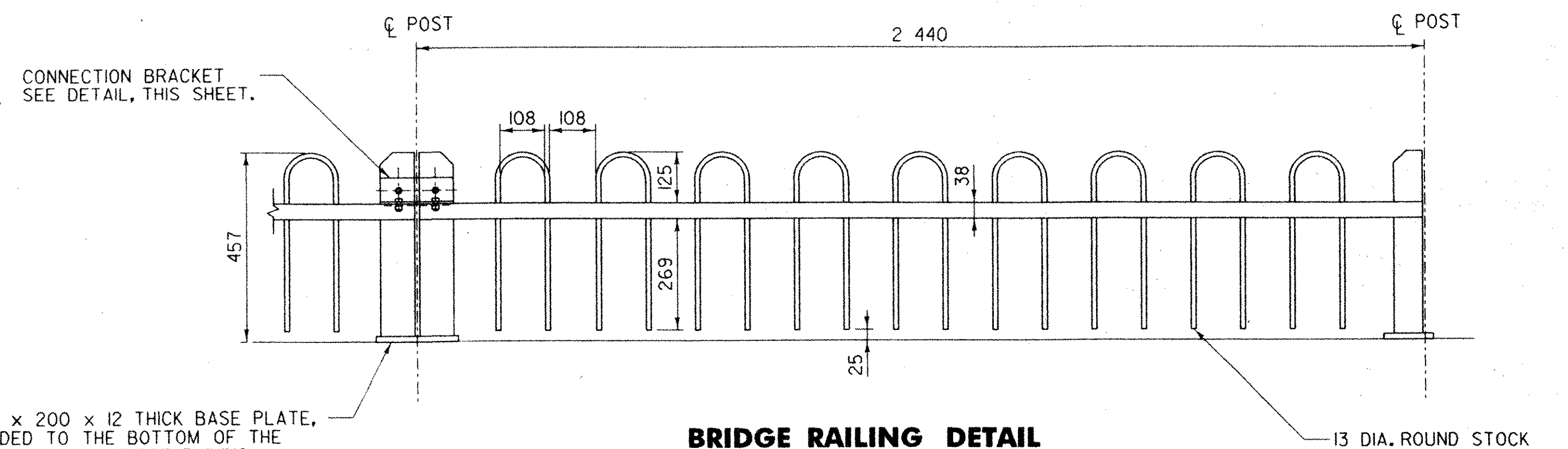
VERTICAL GRANITE CURB PLANTER
PLAN VIEW
SCALE 1:20



VERTICAL GRANITE CURB PLANTER
SECTION A-A
SCALE 1:20



CONNECTION BRACKET DETAILS
SCALE 1:5

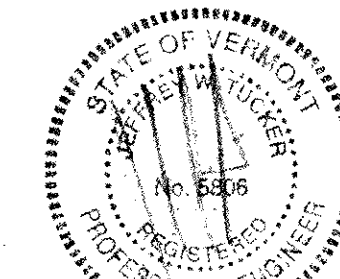


200 x 200 x 12 THICK BASE PLATE, WELDED TO THE BOTTOM OF THE FENCE POSTS. BRIDGE RAILING SHALL BE WELDED TO THE TOP OF BRIDGE BEAM.

BRIDGE RAILING DETAIL
SCALE 1:10

NOTES:

1. THE FABRICATOR SHALL BE RESPONSIBLE TO WELD THE BRIDGE RAILING TO THE TOP OF THE BRIDGE BEAM DURING THE ASSEMBLY OF THE BRIDGE. THE BRIDGE BEAM AND RAILING SHALL BE PROTECTED WITH AN APPROVED PAINTING SYSTEM FROM VTRANS QUALIFIED PRODUCTS LIST FOR PROTECTIVE COATINGS FOR NEW STEEL FOR BRIDGES. THIS WORK SHALL BE PAID FOR SUBSIDIARY TO ITEM 545.20, "PREFABRICATED MULTI-MODAL BRIDGE". THE PAINT CHIP NUMBER SHALL BE NO. 37038, BLACK.
2. ALL DIMENSIONS SHOWN ON THIS SHEET ARE IN MILLIMETERS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE EXISTING FENCE AND ANCHORING THE BASE PLATE OF THE NEW FENCE TO THE TOP OF THE CONCRETE WALL AS SHOWN IN THE PLANS. THE FENCE SHALL BE PROTECTED WITH AN APPROVED PAINTING SYSTEM FROM VTRANS QUALIFIED PRODUCTS LIST FOR PROTECTIVE COATINGS. THE PAINT CHIP NUMBER SHALL BE NO. 37038, BLACK. THIS WORK INCLUDING THE FENCE, HARDWARE AND ALL NECESSARY WORK TO INSTALL THE FENCE SHALL BE PAID FOR UNDER ITEM 620.80, "MISCELLANEOUS FENCE (MOD. - PREFAB. STEEL RAILING)".



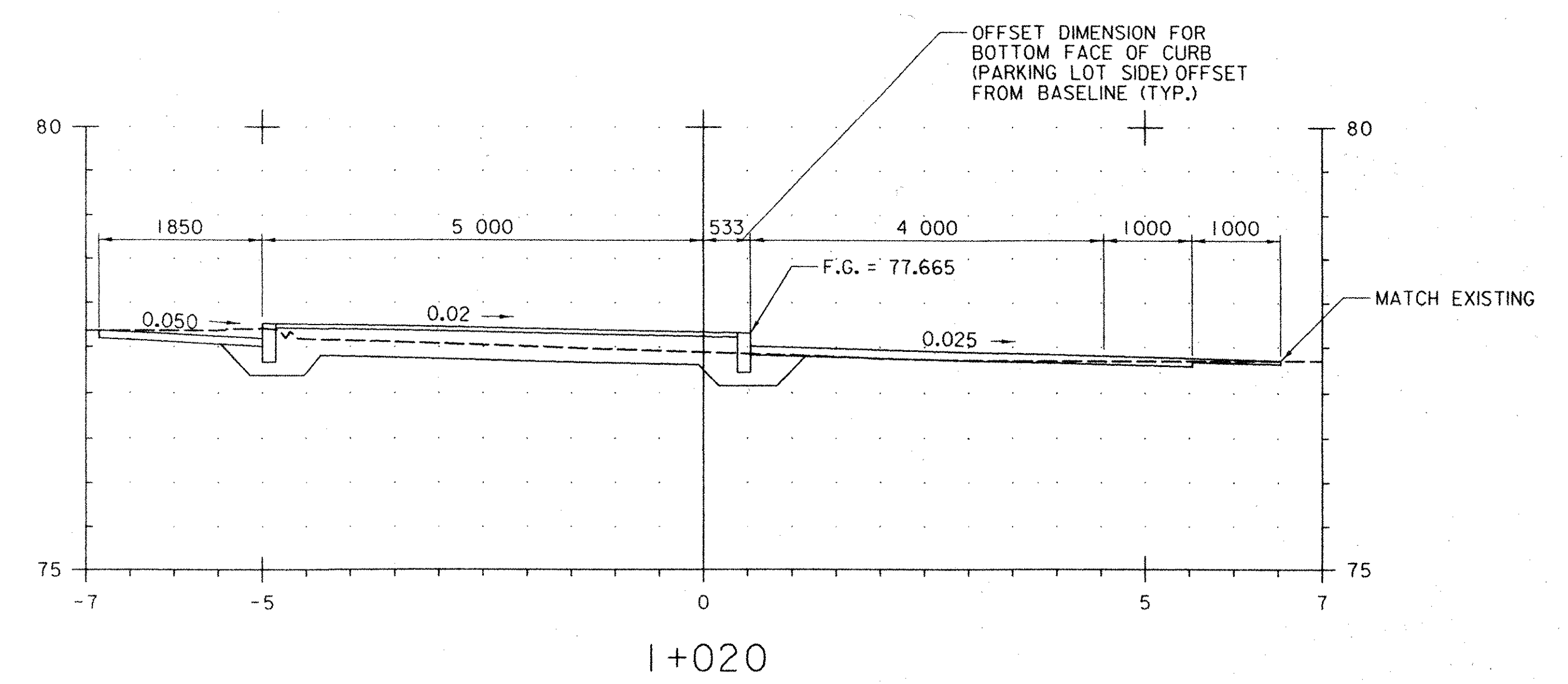
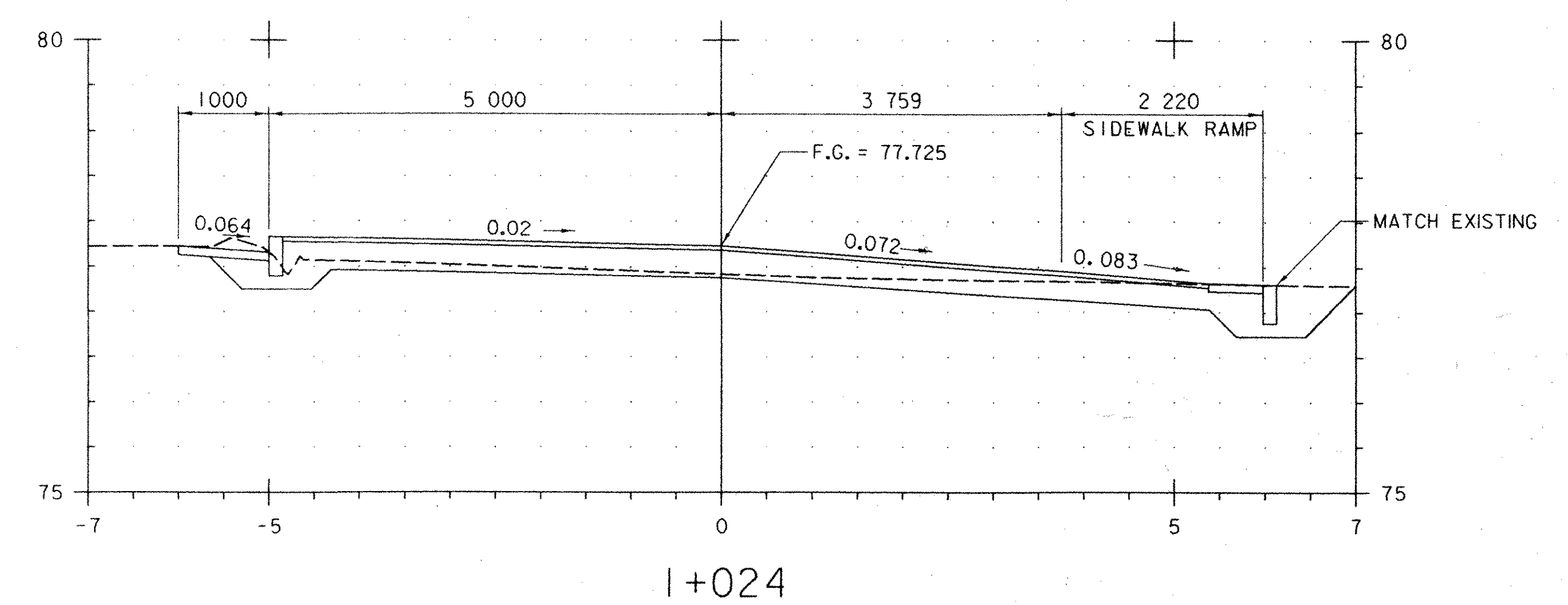
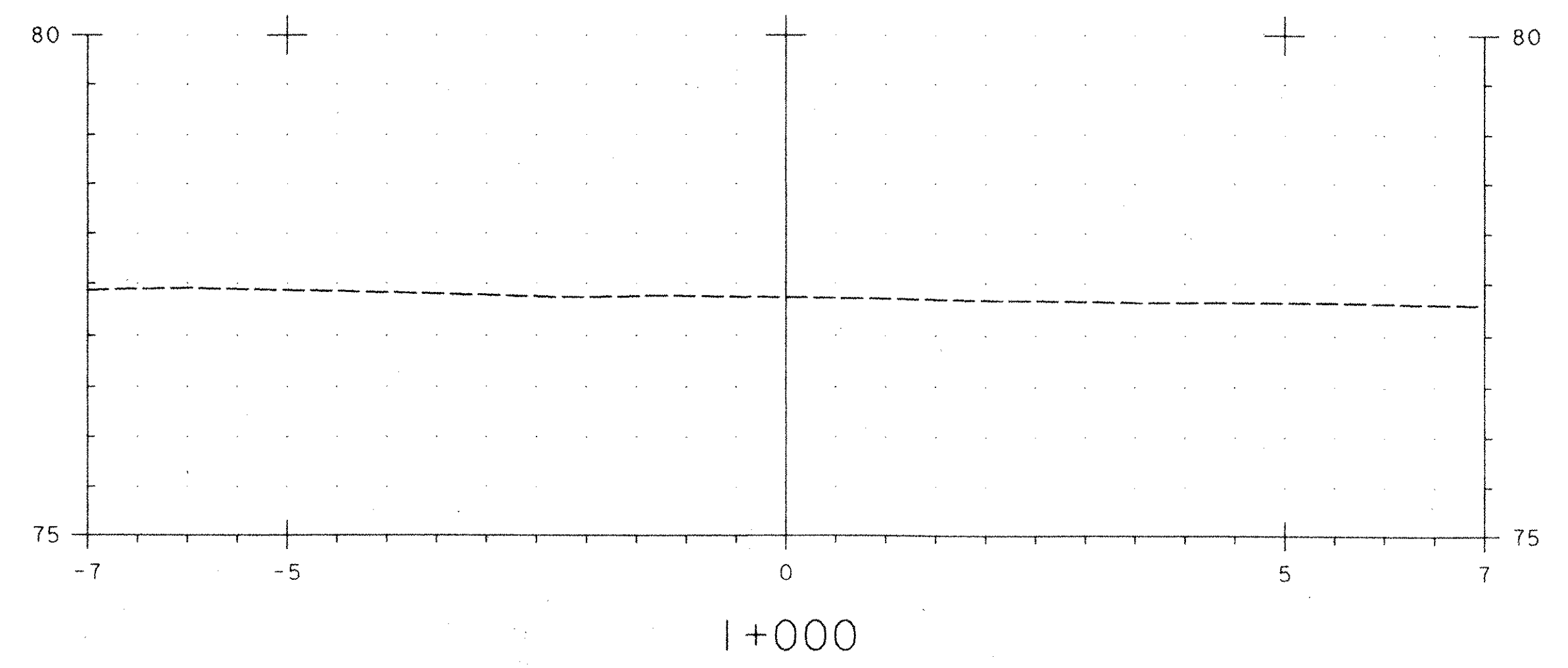
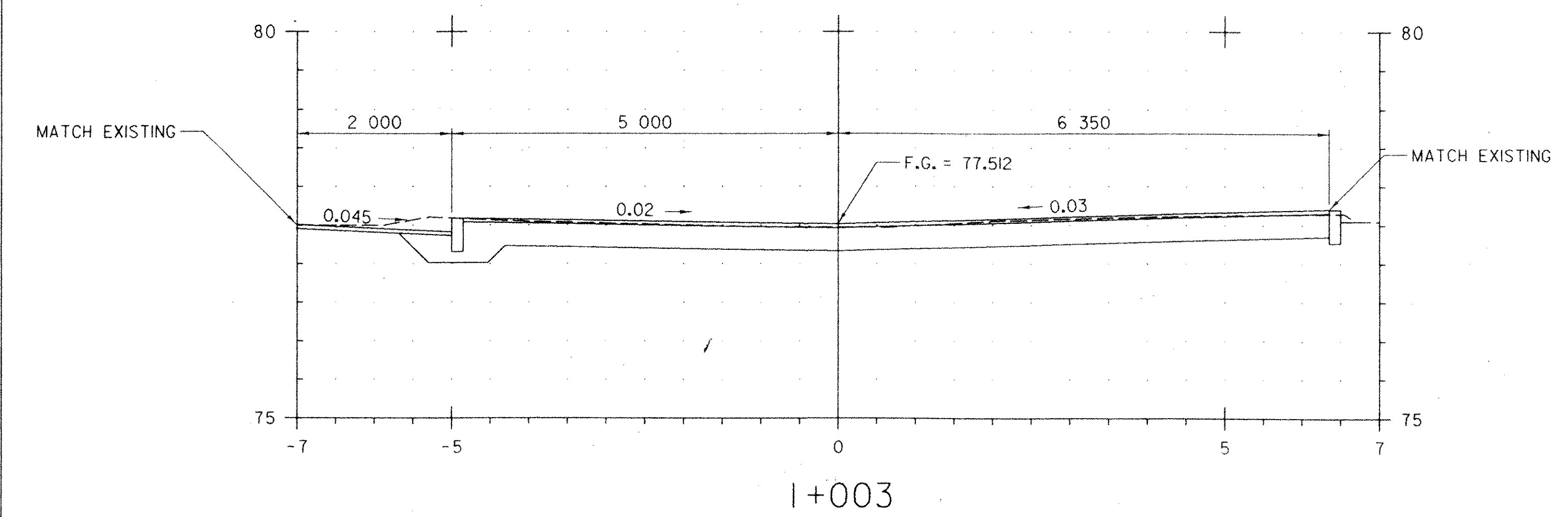
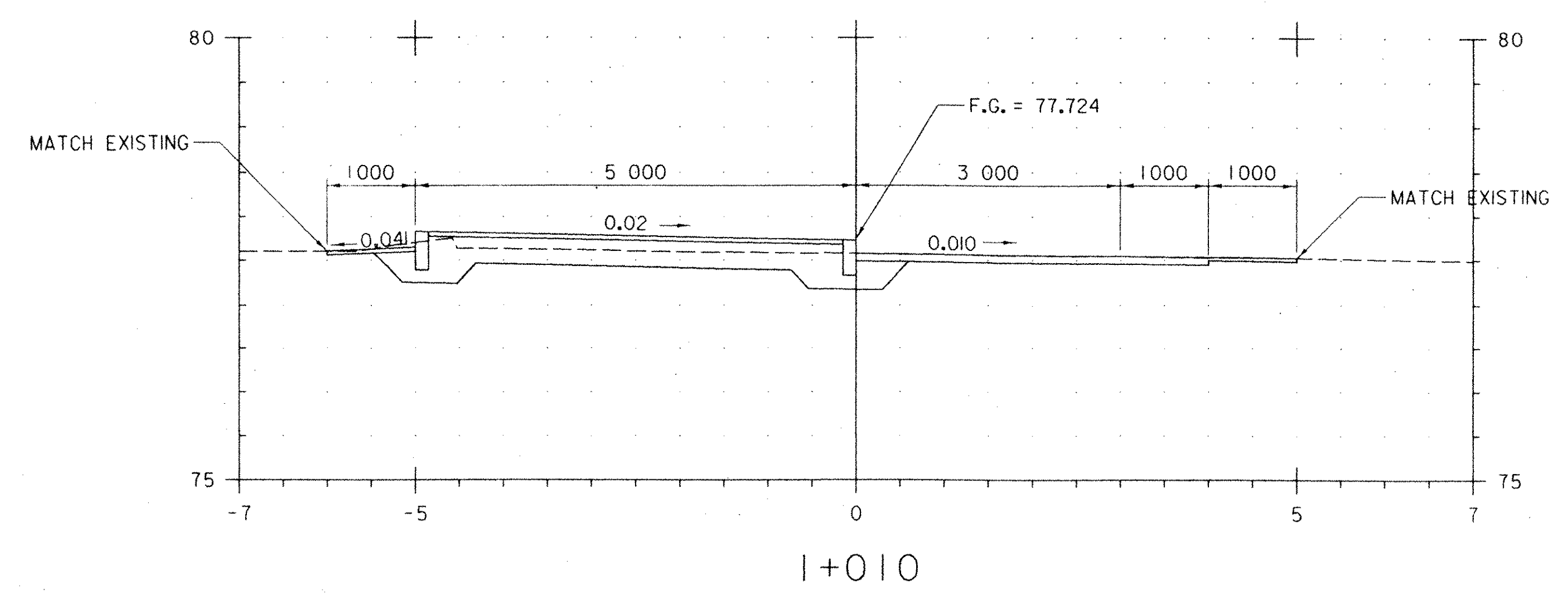
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DuBois & King Inc. engineering planning management development	TOWN OF BRATTLEBORO BRATTLEBORO, VERMONT		DRAWN BY SJB	DATE FEB. 2004
	WHETSTONE BROOK PATHWAY PROJECT STP BIKE (27) S		CHECKED BY JUT	PROJ. NO. R16544
	DETAILS SHEET		PROJ. ENG. JDA	DRAW. NO. 11451
	SHEET 23 OF 30			

**TABLE 1:
BOTTOM FACE OF CURB (PARKING
LOT SIDE) OFFSET FROM BASELINE**

STATION	OFFSET	STATION	OFFSET
STA. I+005.000	0.557 RT	STA. I+090.000	0.354 RT
STA. I+010.000	0.000 RT	STA. I+095.000	0.420 RT
STA. I+015.000	0.000 RT	STA. I+100.000	0.483 RT
STA. I+020.000	0.533 RT	STA. I+102.318 (AP*)	0.514 RT
STA. I+024.547 (PC)	6.070 RT	STA. I+105.000	0.444 RT
STA. I+025.000	5.398 RT	STA. I+110.000	0.311 RT
STA. I+055.000	2.878 RT	STA. I+115.000	0.181 RT
STA. I+060.000	3.135 RT	STA. I+120.000	0.049 RT
STA. I+061.023 (PC)	3.190 RT	STA. I+121.586 (AP*)	0.008 RT
STA. I+063.946 (PT)	4.784 RT	STA. I+125.000	0.061 LT
STA. I+065.000	5.076 RT	STA. I+130.000	0.164 LT
STA. I+069.252 (AP*)	0.088 RT	STA. I+130.929 (AP*)	0.182 LT
STA. I+070.000	0.097 RT	STA. I+135.000	0.127 LT
STA. I+075.000	0.162 RT	STA. I+136.490 (AP*)	0.107 LT
STA. I+080.000	0.226 RT	STA. I+140.000	4.763 RT
STA. I+085.000	0.291 RT	STA. I+145.000	1.062 RT

(AP*) : ANGLE POINT ALONG THE CURB

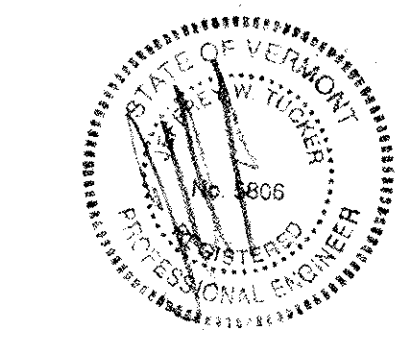


NOTE:

STATIONS ARE GIVEN IN KILOMETERS, OFFSETS ARE GIVEN IN METERS AND DIMENSIONS ARE GIVEN IN MILLIMETERS.

DATUM
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HORIZONTAL NAD 83

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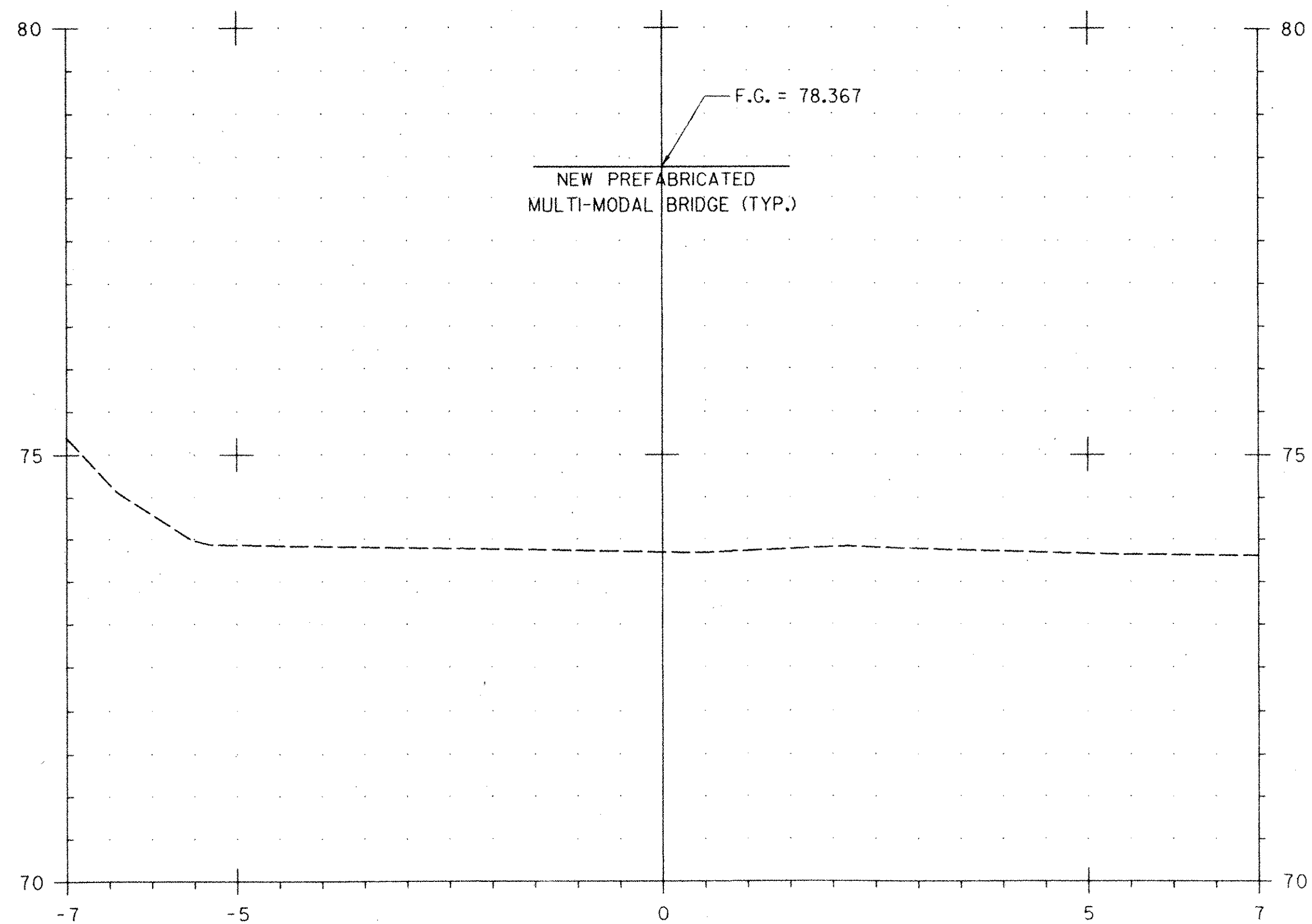


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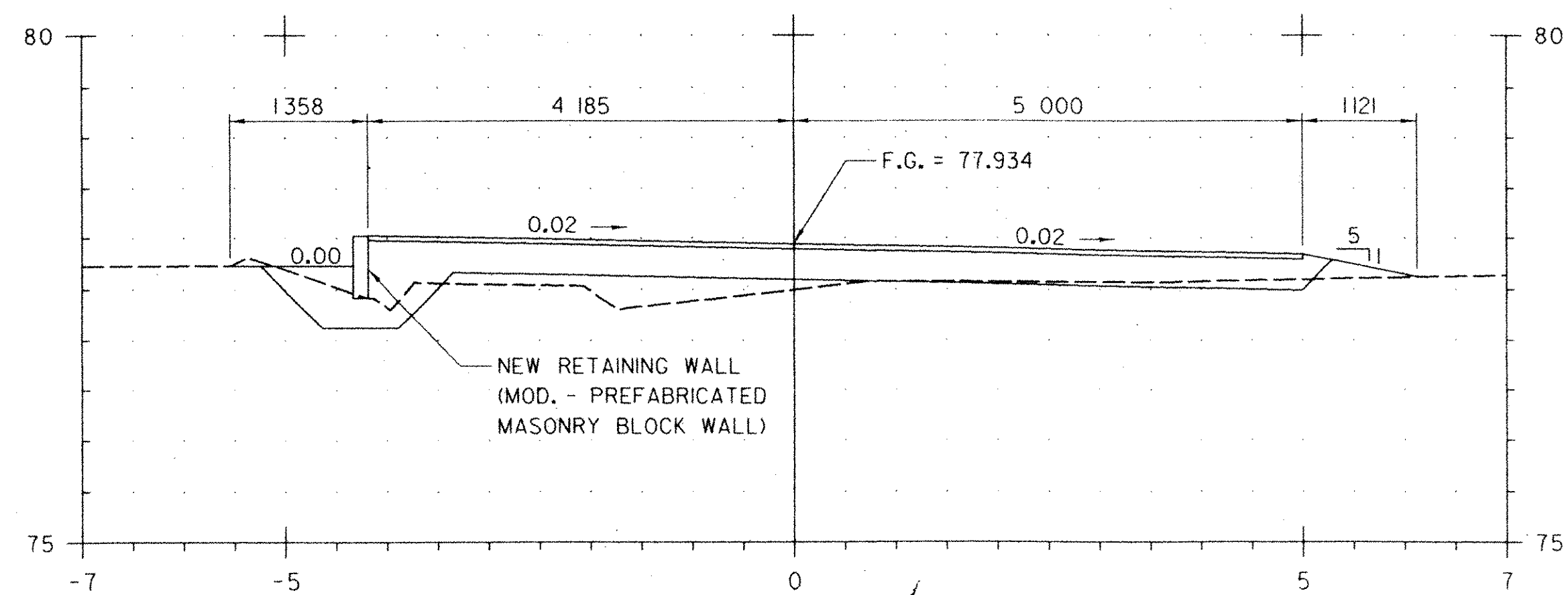
DuBois & King Inc.
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TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
PATHWAY CROSS SECTIONS

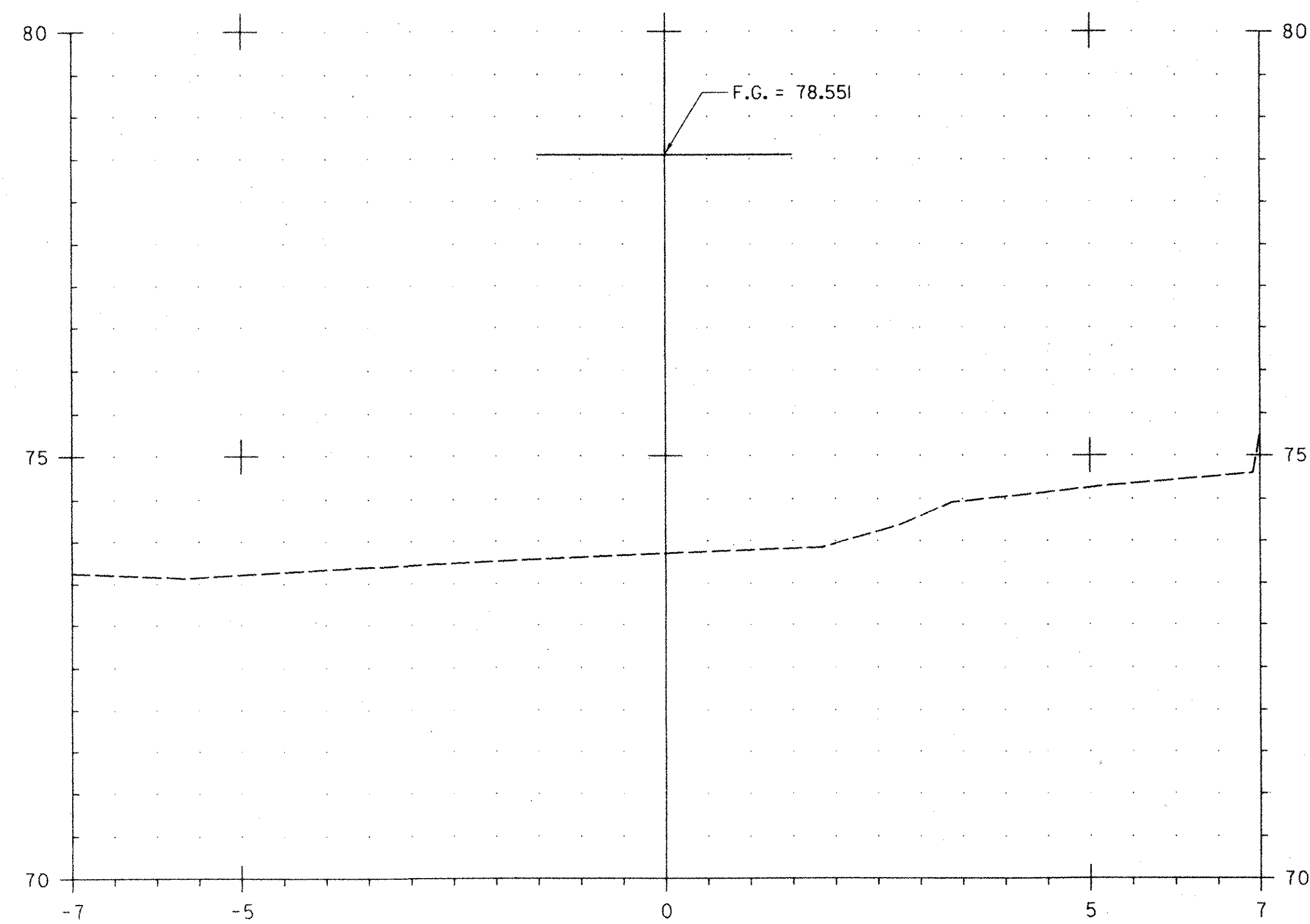
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I+040



I+029



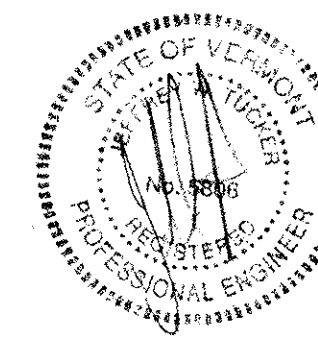
I+050

NOTE:

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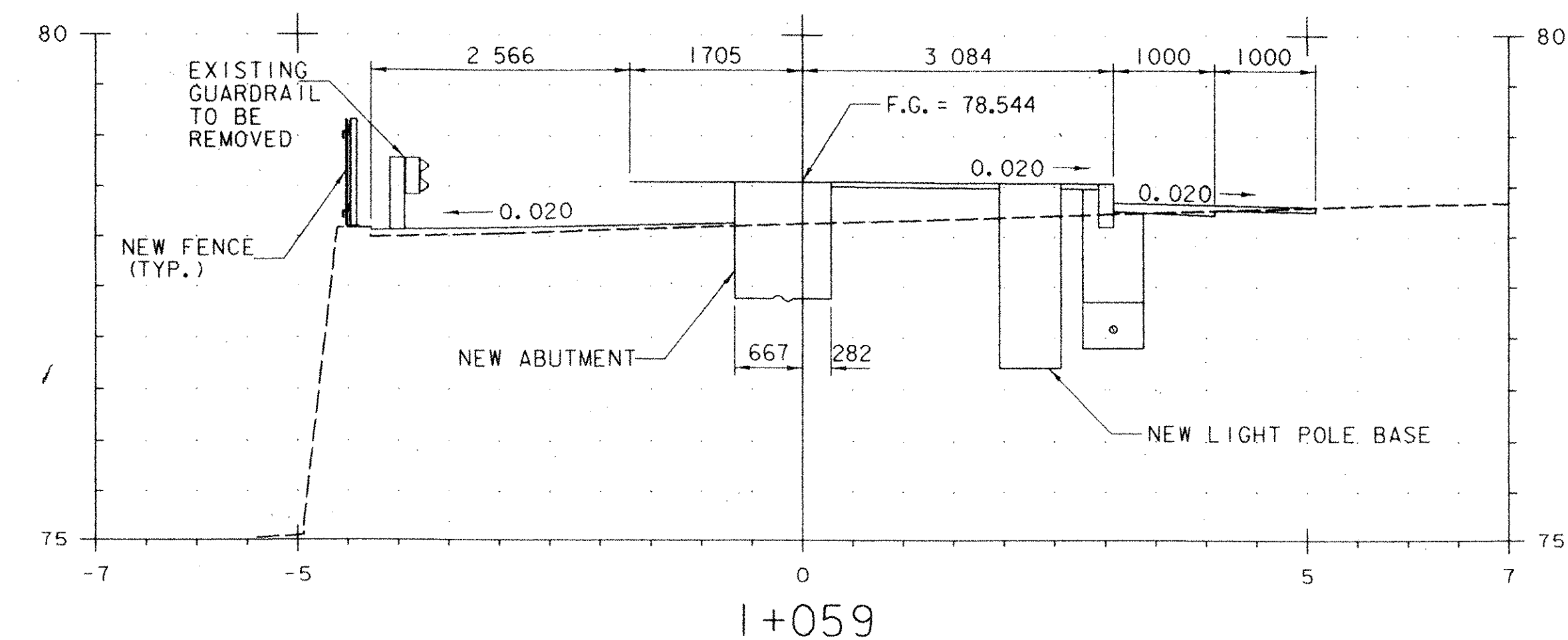
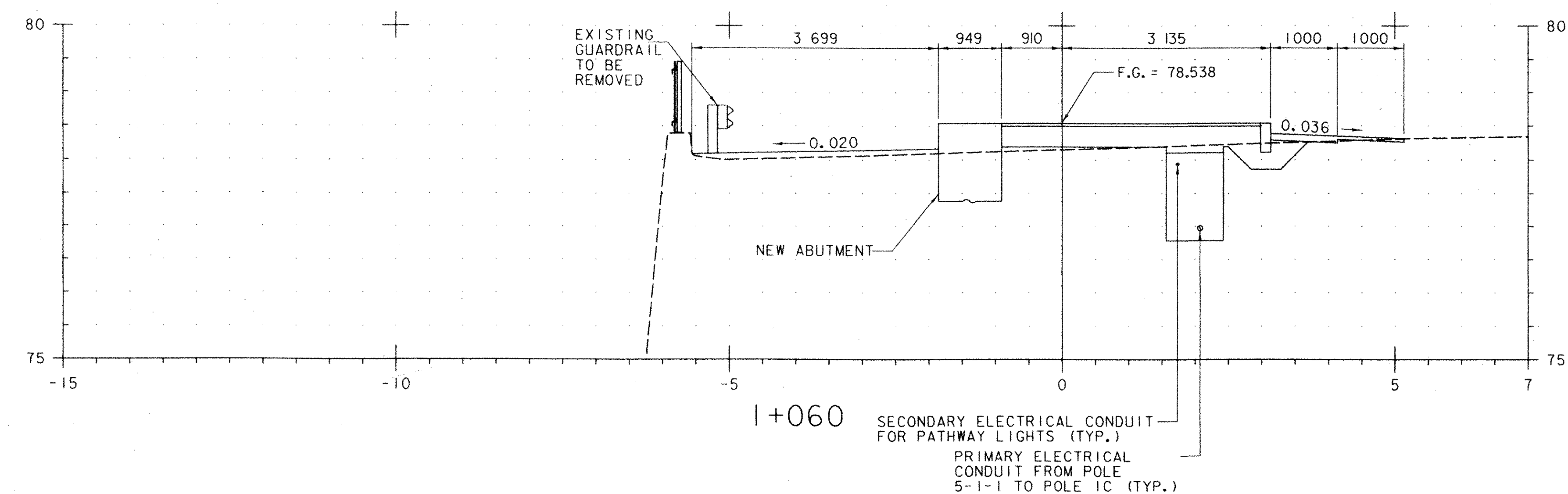
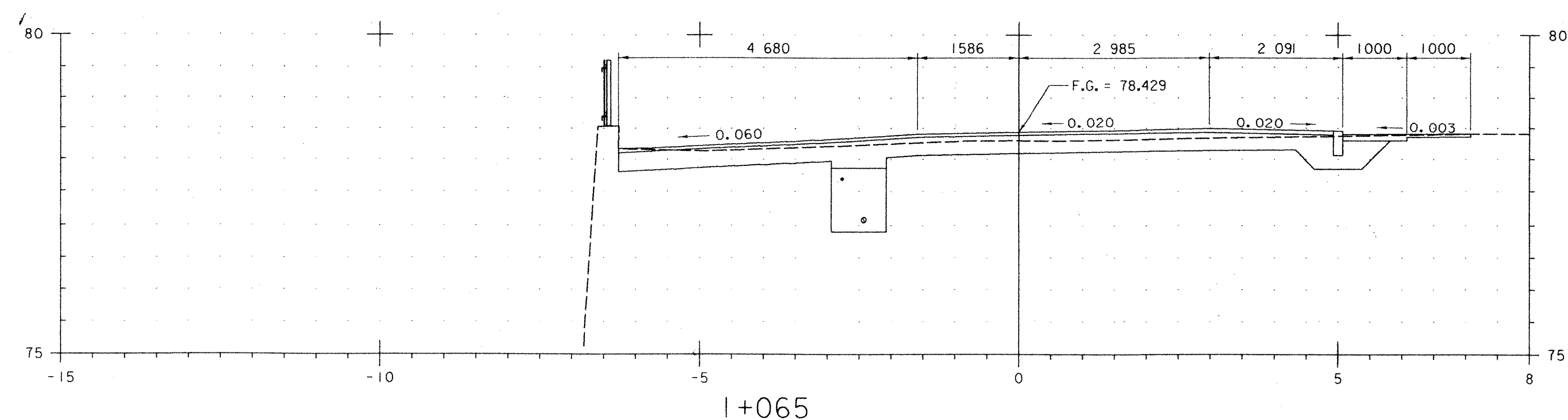


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TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
PATHWAY CROSS SECTIONS

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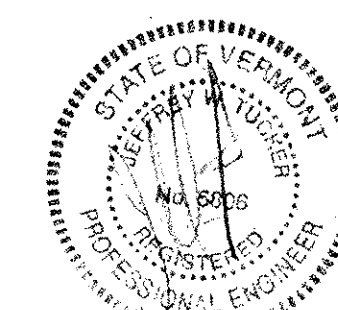


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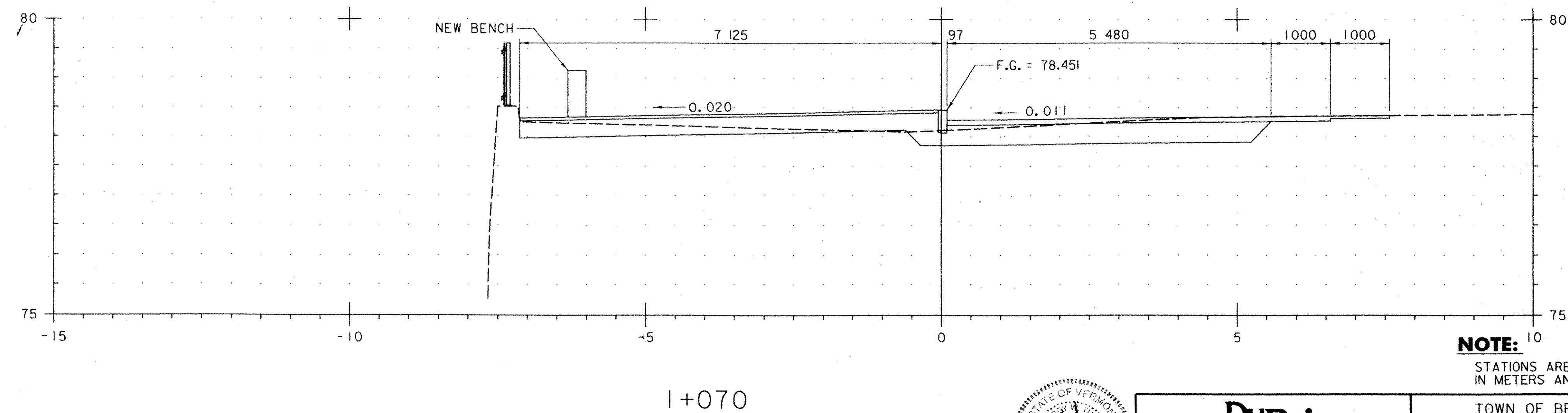
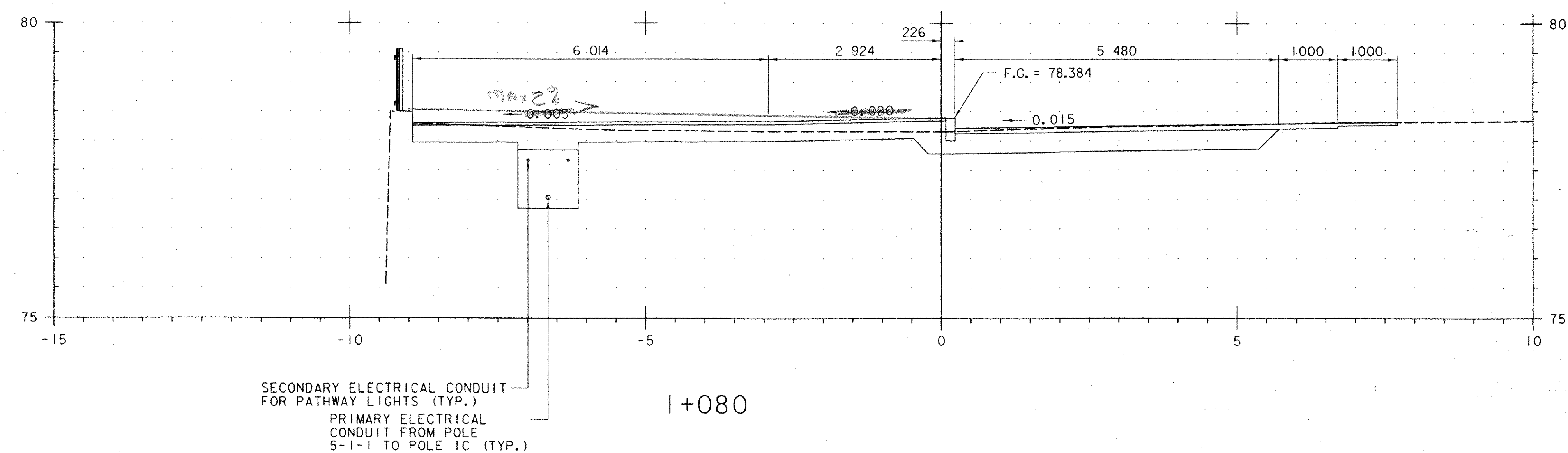
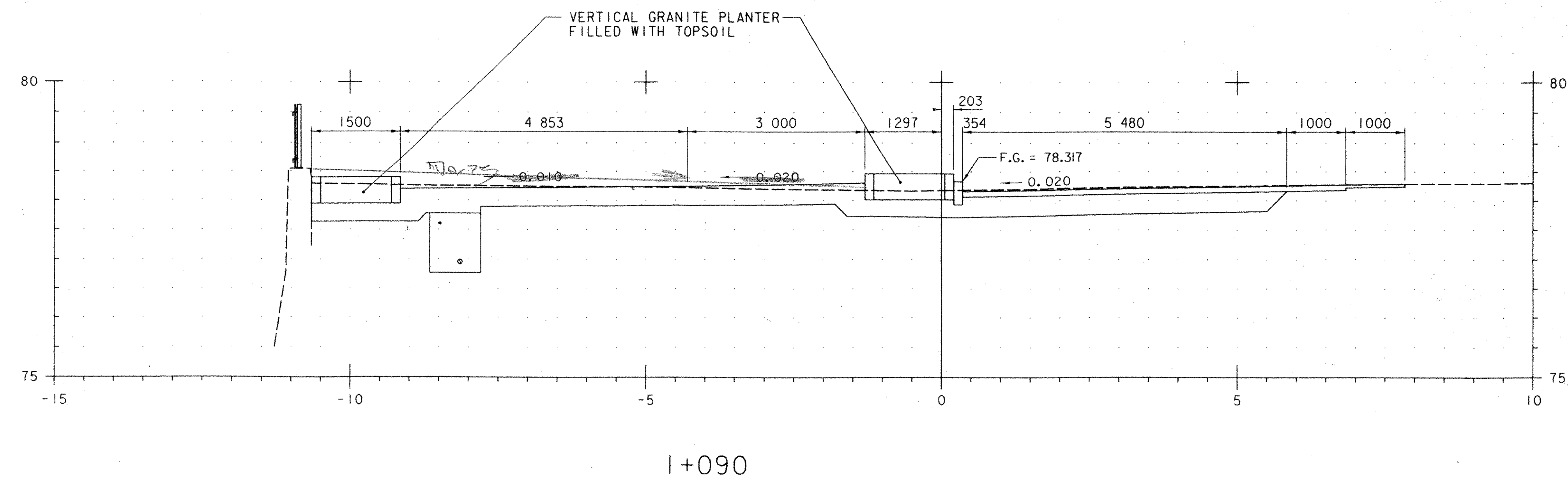


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TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
PATHWAY CROSS SECTIONS

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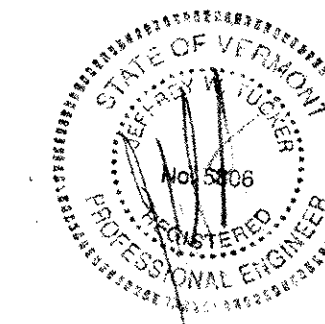


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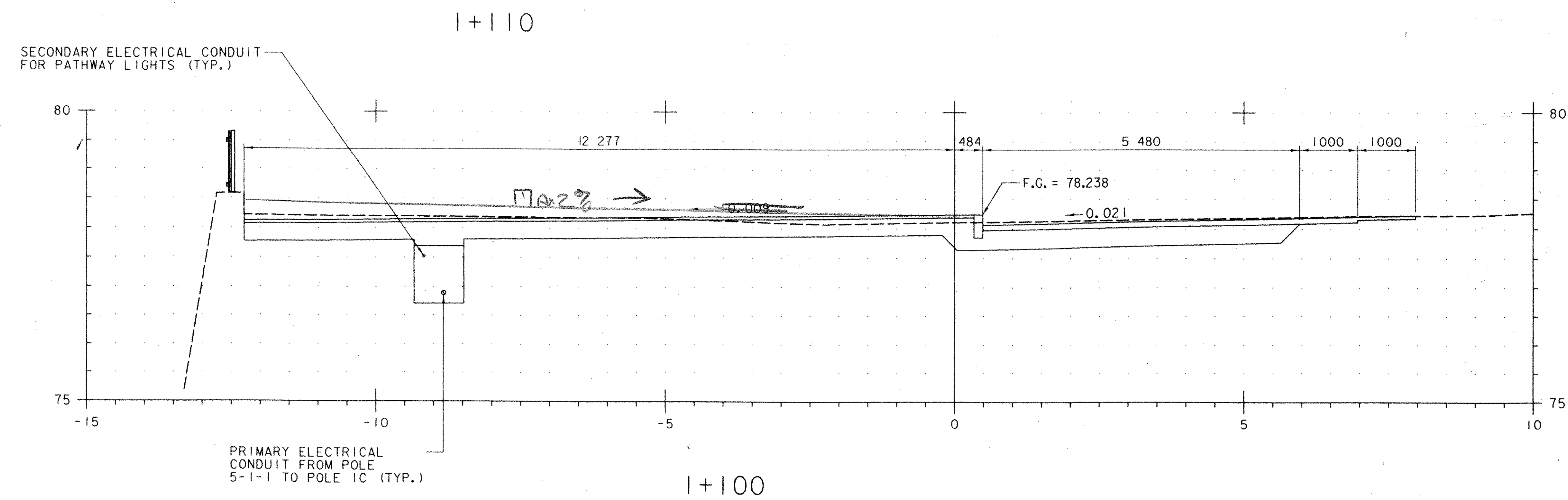
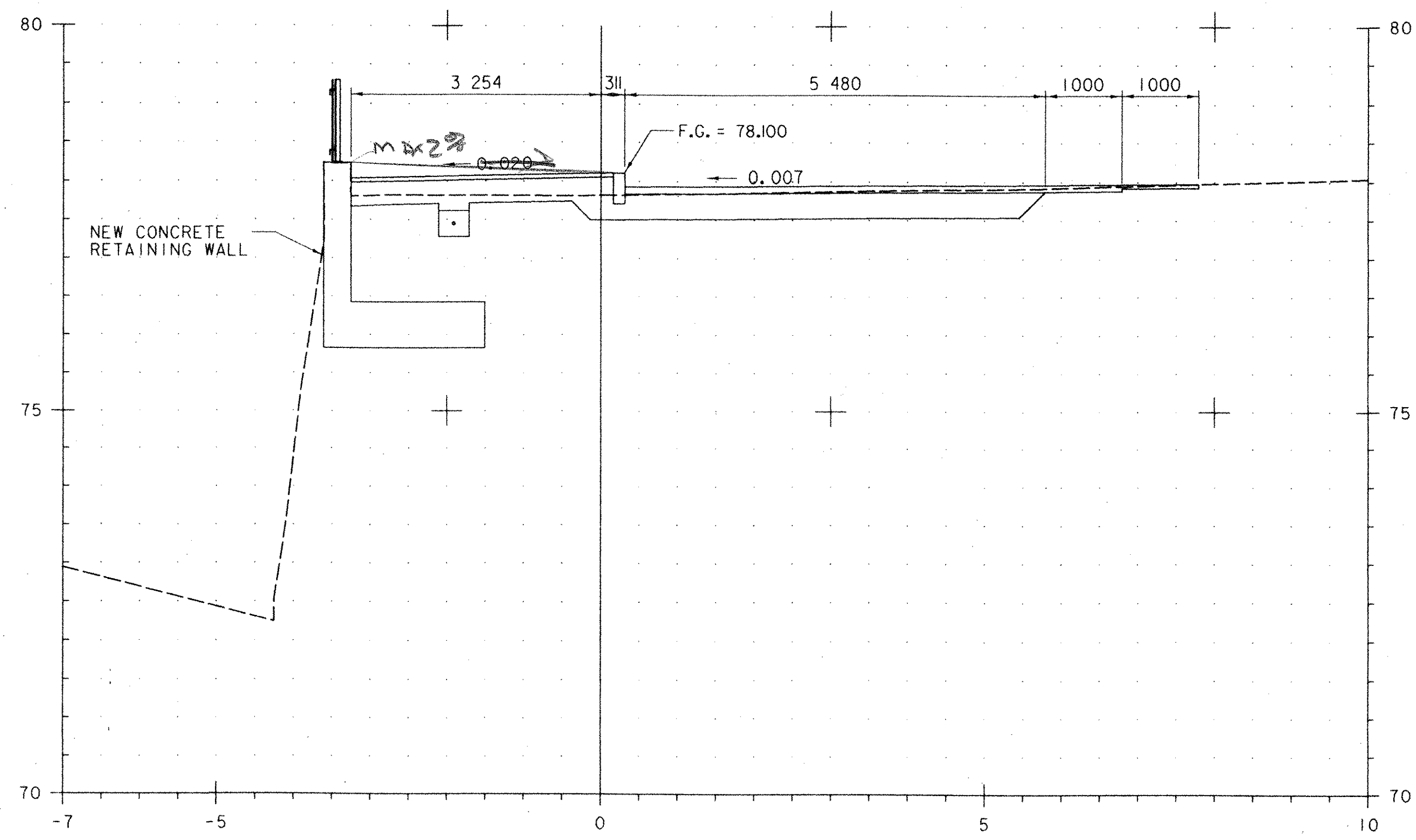


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TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
PATHWAY CROSS SECTIONS

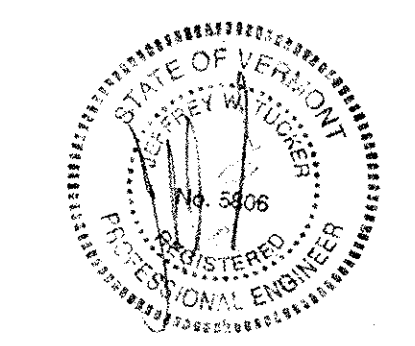
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NOTE:
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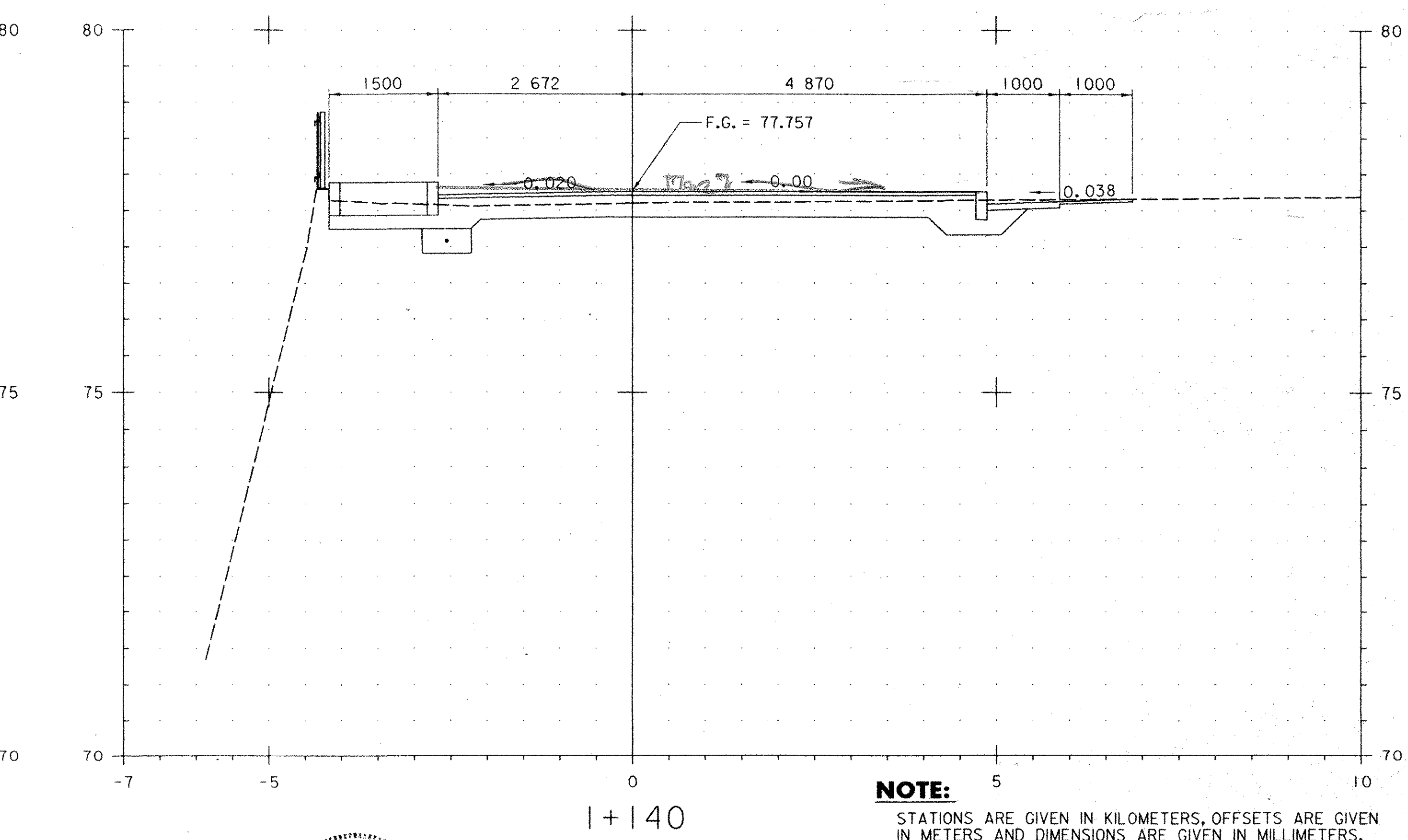
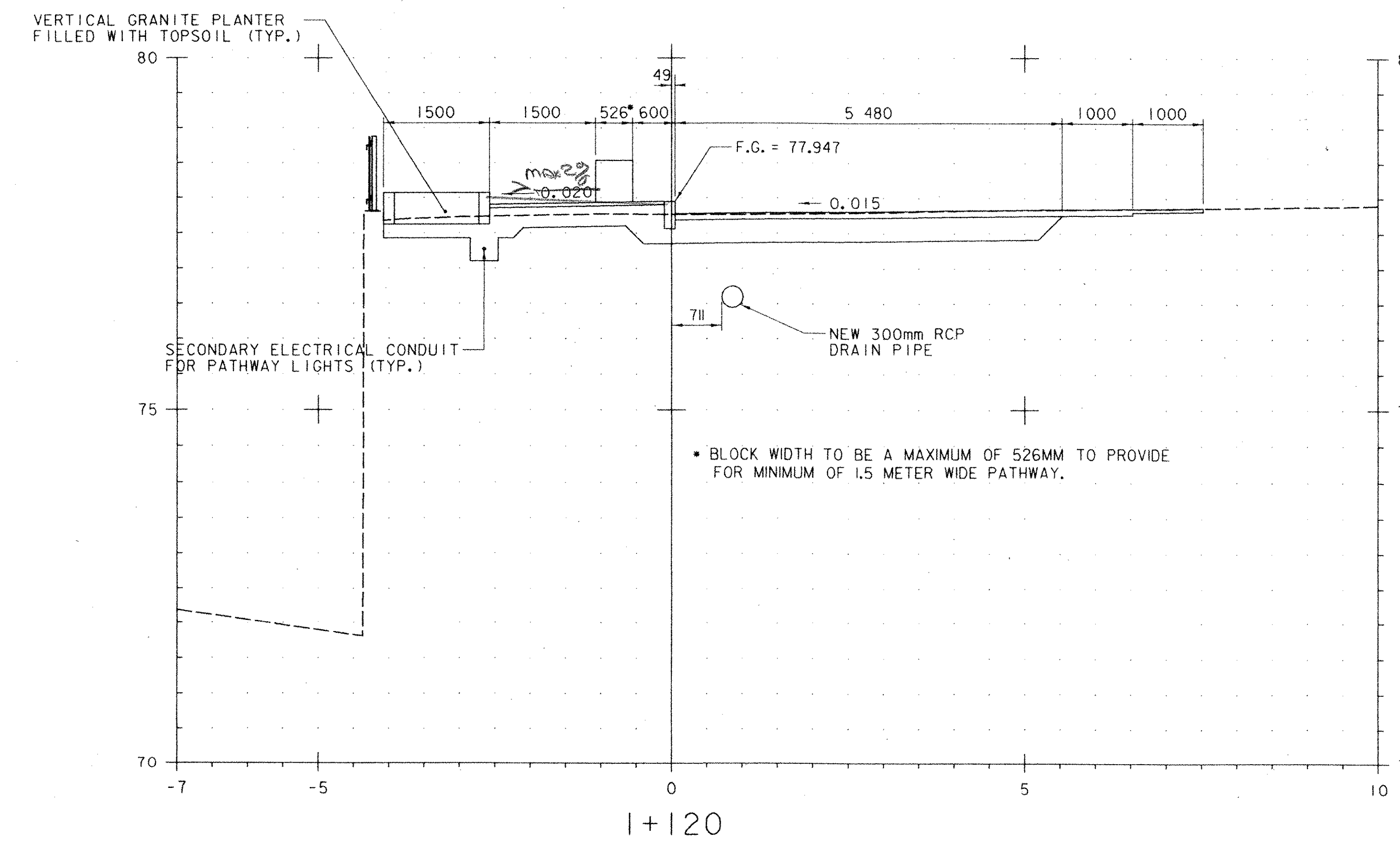
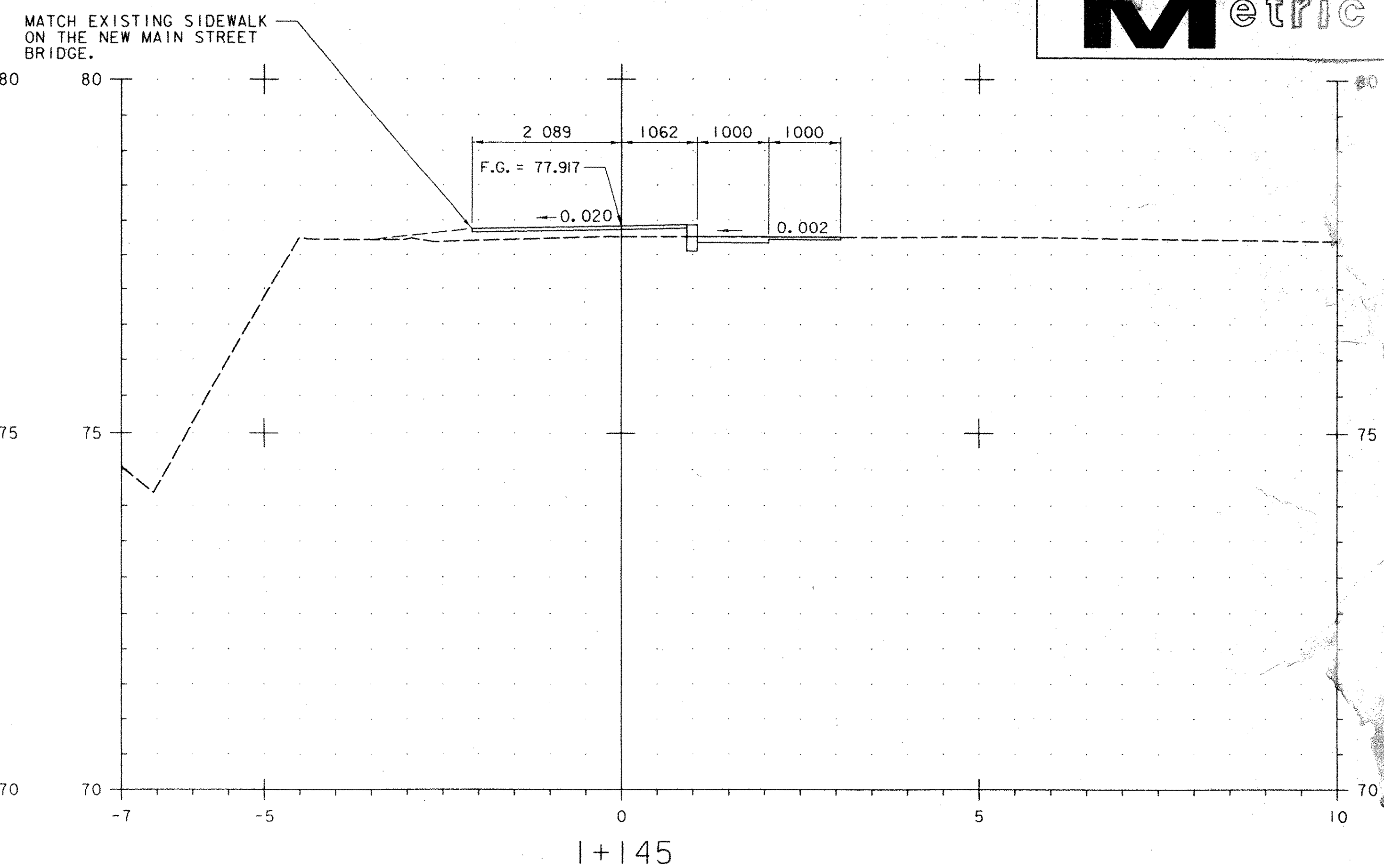
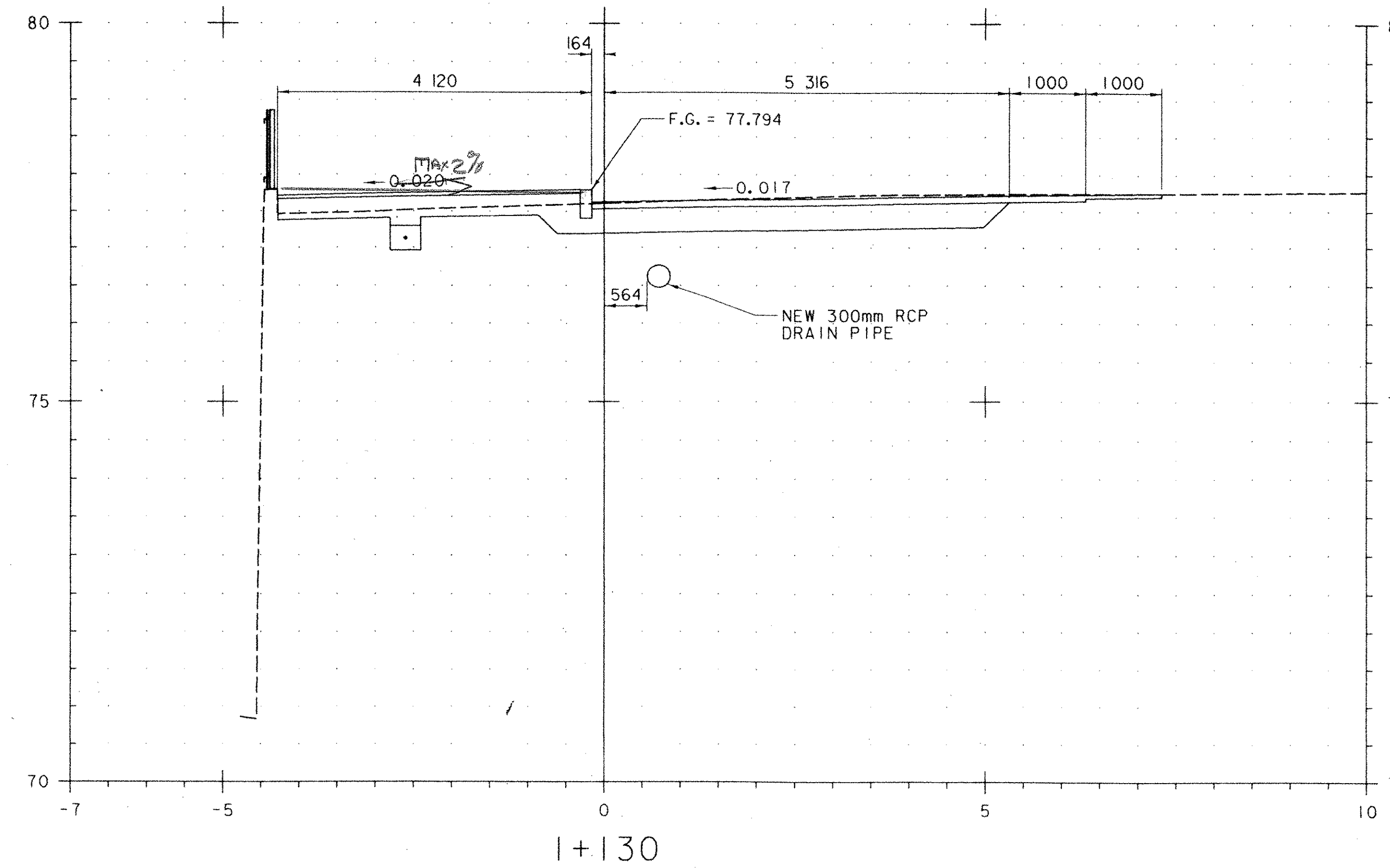


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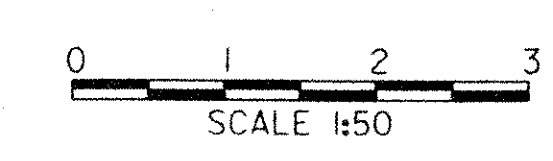
TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
PATHWAY CROSS SECTIONS

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HORIZONTAL	NAD 83



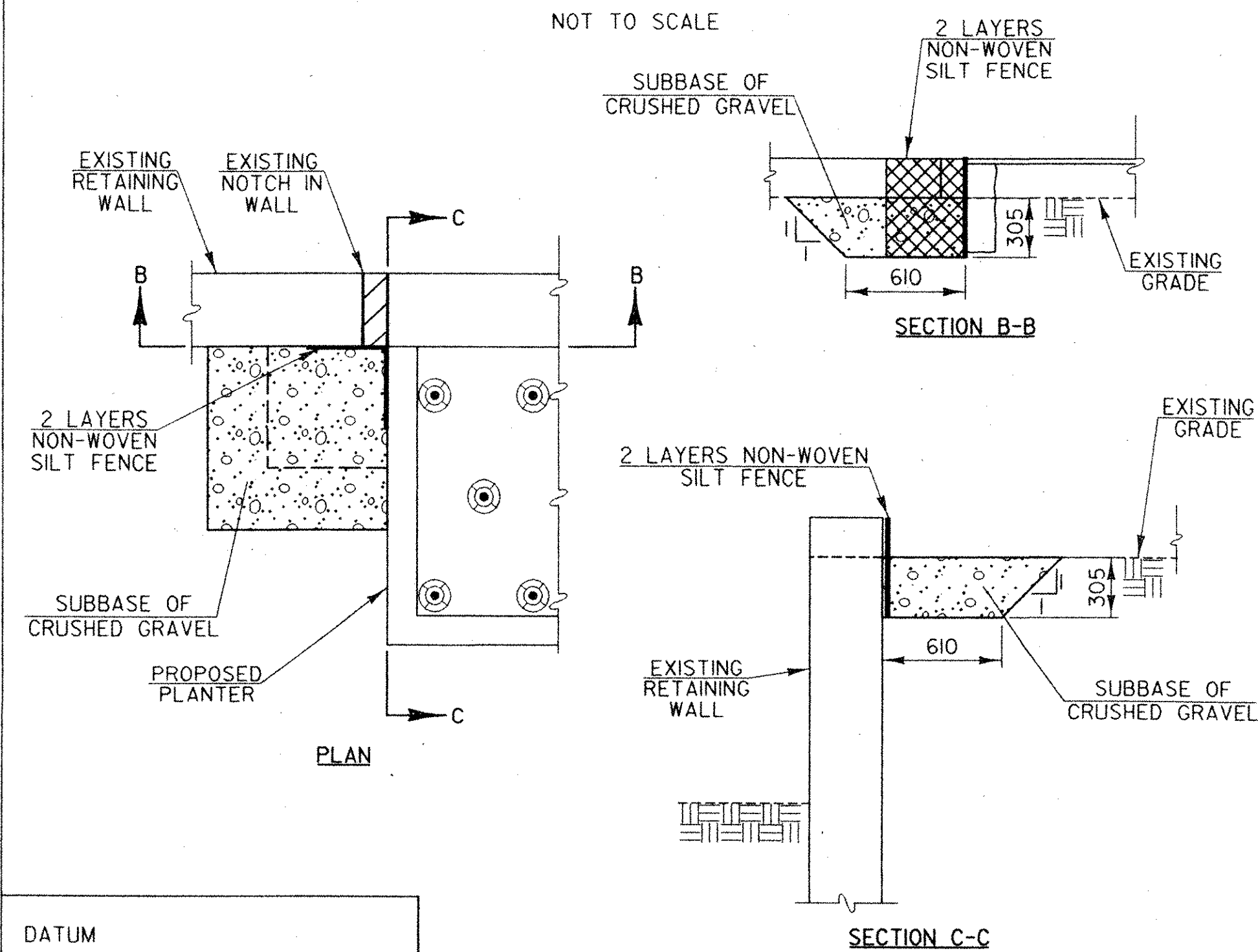
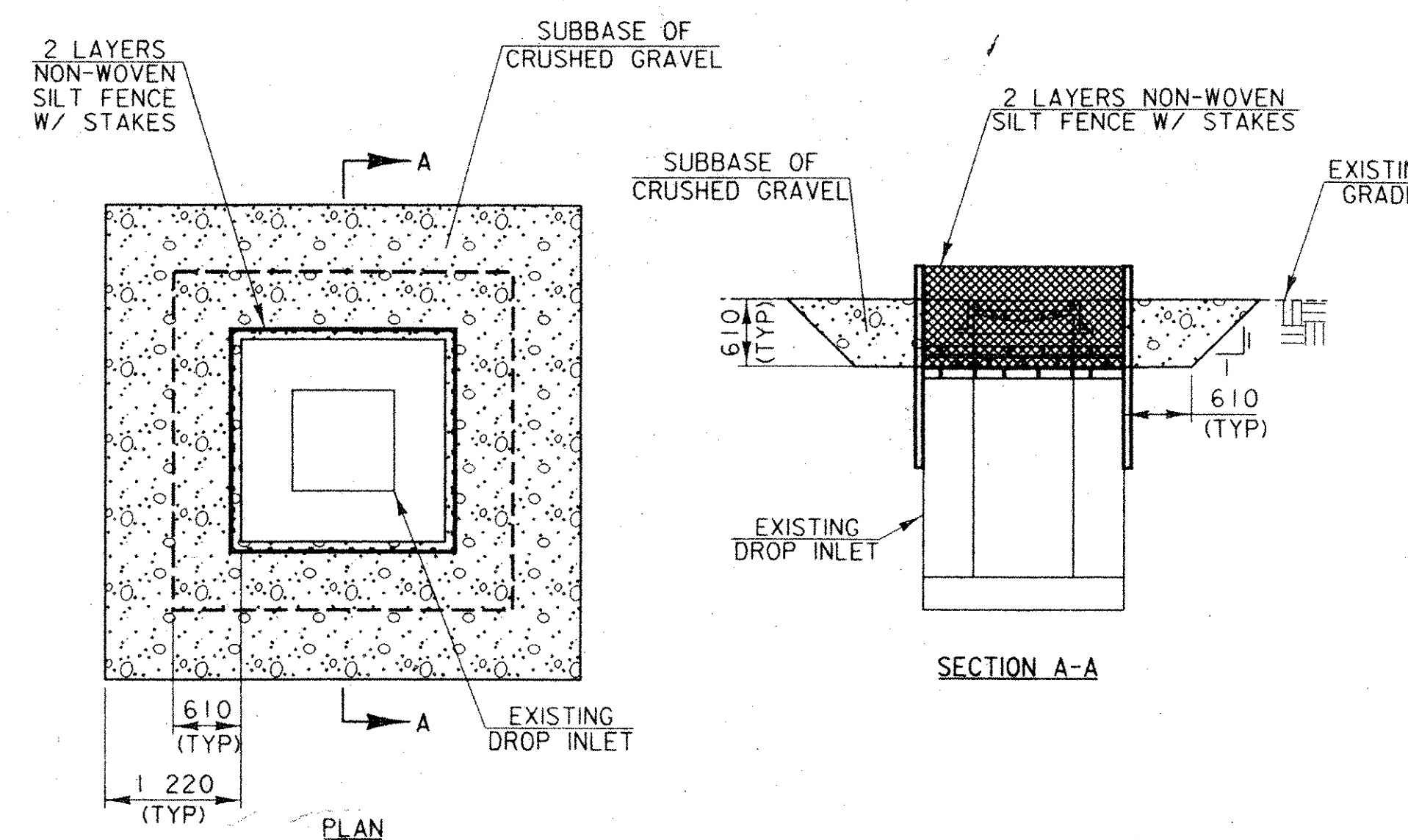
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	PROJ. ENG.	JDA	DRAW. NO.	11457
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TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27)'S
PATHWAY CROSS SECTIONS

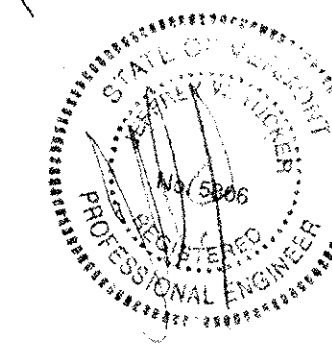
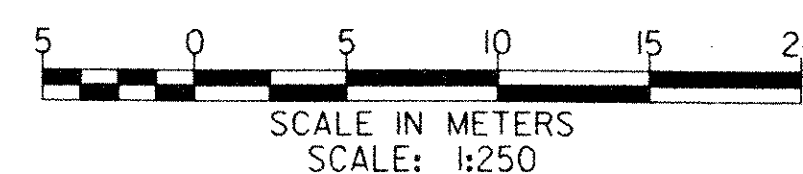
EROSION CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND MONITORING OF EROSION CONTROL DEVICES AS SPECIFIED IN THE SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS AND AS INDICATED ON THESE PLANS.
2. TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO EXCAVATION OF SURFACES, BEYOND THOSE NECESSARY TO INSTALL THESE MEASURES.
3. ONE OBJECTIVE OF THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN IS TO MINIMIZE THE TIME THAT EXCAVATED SOILS ARE EXPOSED TO THE ELEMENTS. EXCAVATION OF THE UTILITY TRENCHES, ABUTMENTS, RETAINING WALL AND OVERALL PATHWAY SURFACE SHALL BE SEQUENCED TO ACHIEVE THIS OBJECTIVE. THIS SEQUENCING OF EXCAVATION WORK SHALL BE IN THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN.
4. FOR EXAMPLE, EXCAVATION AND BACKFILLING OF THE UTILITY TRENCHES SHOULD OCCUR PRIOR TO REMOVING ALL OF THE EXISTING ASPHALT WITHIN THE NEW PATHWAY. NEW ASPHALT SHOULD BE PLACED OVER THE TRENCHES IN AREAS OUTSIDE THE LIMITS OF THE PATHWAY PRIOR TO EXCAVATION OF THE PATHWAY (IE: BAST PARKING LOT LIGHTS, UTILITY TRENCH BEHIND BUILDING).
5. THE EXCAVATED AREA FOR THE NEW ABUTMENTS AND FOOTINGS SHALL BE STABILIZED TO PREVENT SURFACE WATER FROM TRANSPORTING SEDIMENTS INTO THE BROOK.
6. NON-WOVEN SILT FENCE WITH STAKES WILL BE PAID FOR UNDER ITEM 654.10, "EROSION MATTING".
7. INLET TO THE TWO NEW CATCH BASINS SHALL BE COVERED TO PREVENT THE TRANSPORT OF SEDIMENTS INTO THEM UNTIL SUCH TIME THAT THE PATHWAY CURBING IS INSTALLED AND STORMWATER RUNOFF CANNOT SHEET FLOW TO THE EXISTING NOTCHES IN THE RETAINING WALLS. THE CONTRACTOR MAY INSTALL ALTERNATIVE MEASURES SUBJECT TO APPROVAL BY THE RESIDENT ENGINEER.

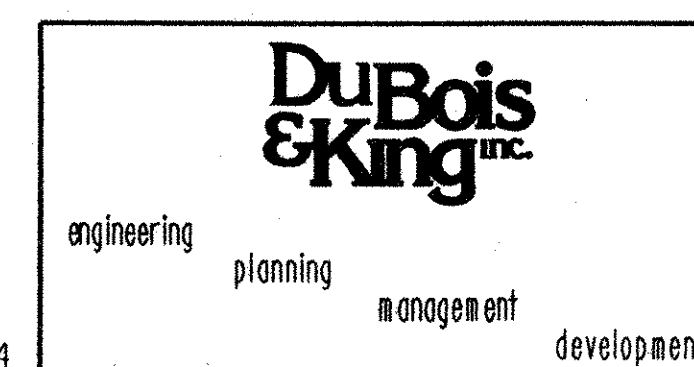


DATUM
VERTICAL NVD 88
HORIZONTAL NAD 83

EROSION & SEDIMENTATION CONTROL

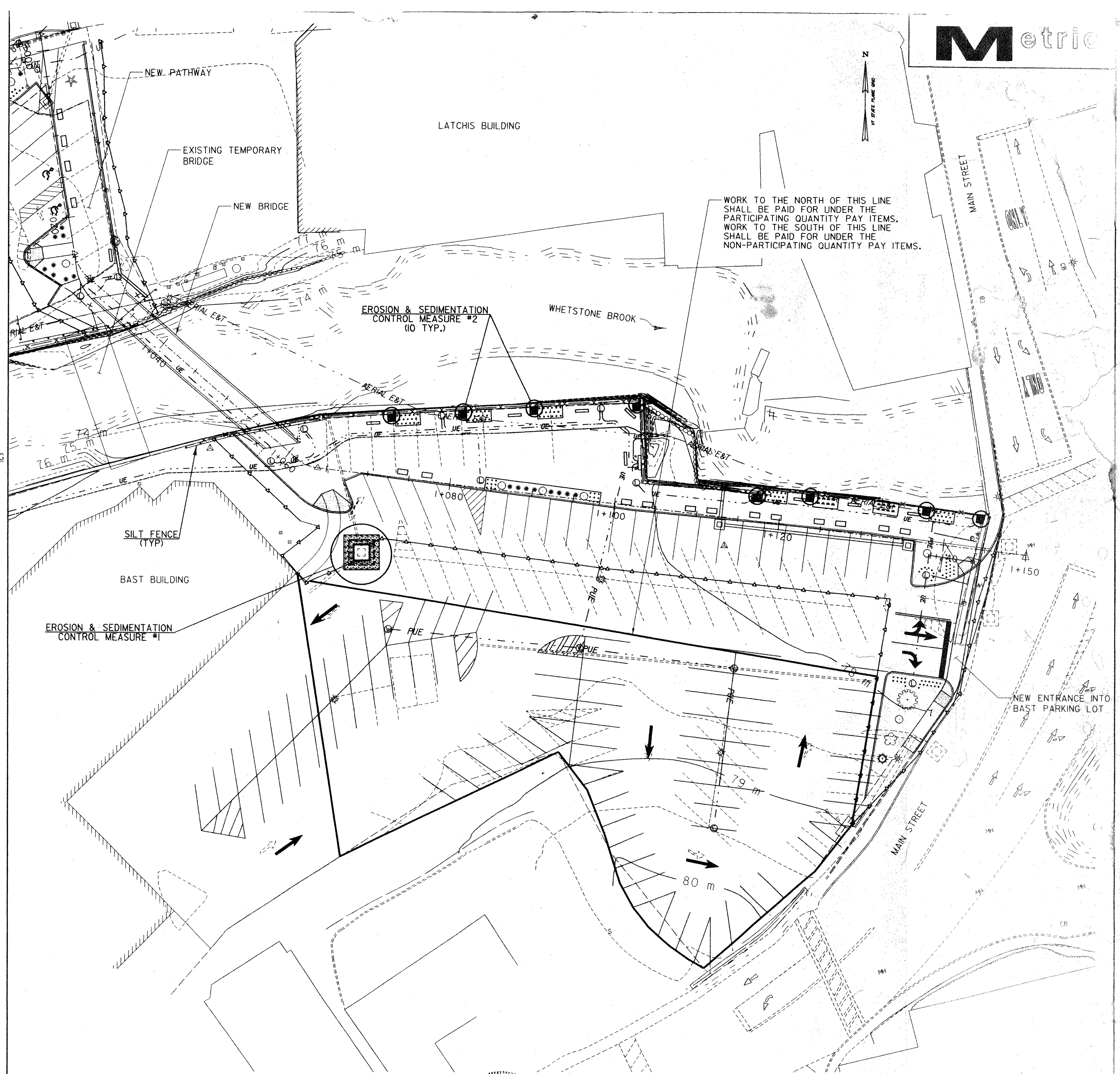


PLOTTED: 03/11/2004

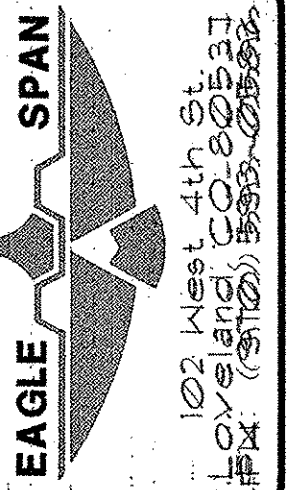


TOWN OF BRATTLEBORO
BRATTLEBORO, VERMONT
WHETSTONE BROOK PATHWAY PROJECT
STP BIKE (27) S
EROSION & SEDIMENTATION CONTROL

DRAWN BY SJB	DATE FEB. 2004
CHECKED BY JTB	PROJ. NO. R16544
PROJ. ENG.	DRAW. NO. 1408
SHEET 30 OF 30	



Metric



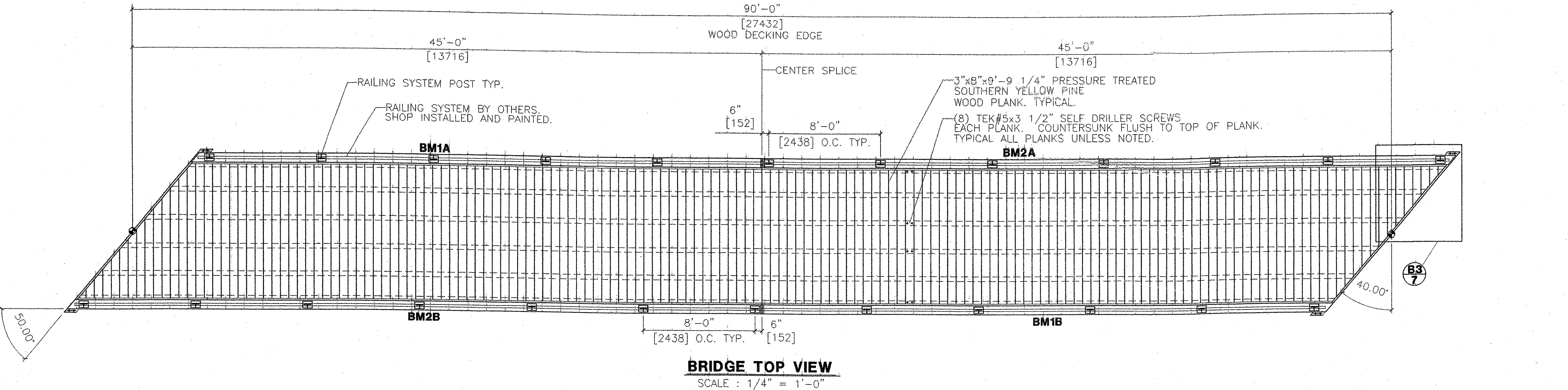
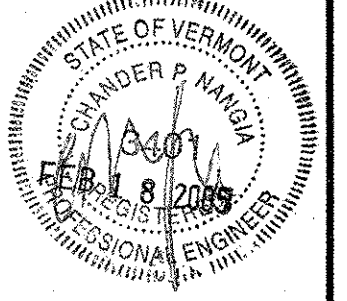
WHITCOMB CONSTR.
WHESTONE BROOK PATH
PEDESTRIAN BRIDGE
BETHLEHEM, VT

REV.	DATE	DESCRIPTION
0	1/8/04	FOR OWNER APPROVAL
1	7/27/04	CUSTOMER CHANGES
2	9/3/04	RE-SUBMITTAL
3	10/12/04	RE-SUBMITTAL
5	12/1/05	AS MANUFACTURED

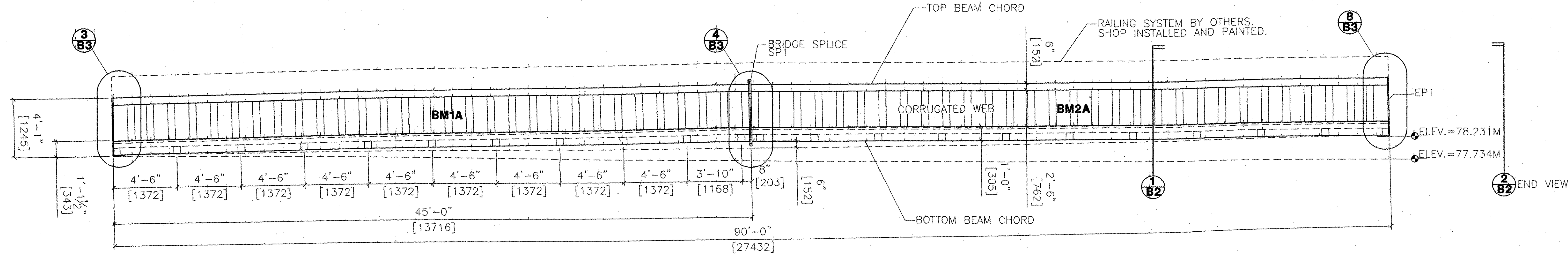
BIG R
MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
80639
PH: (970) 358-8829
FAX: (970) 358-8829

DRAWN: MD6
DATE: 7/1/04
CHECKED: SFP
DATE: 7/8/04
APPROVED: SFP

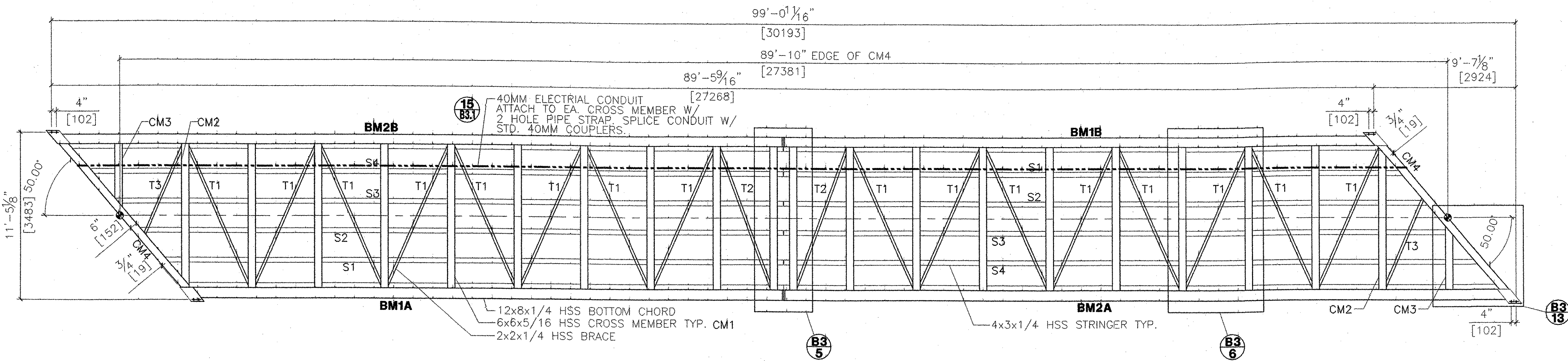
REV. 5
PROJECT NO. 24-175E
SHEET NO. B1



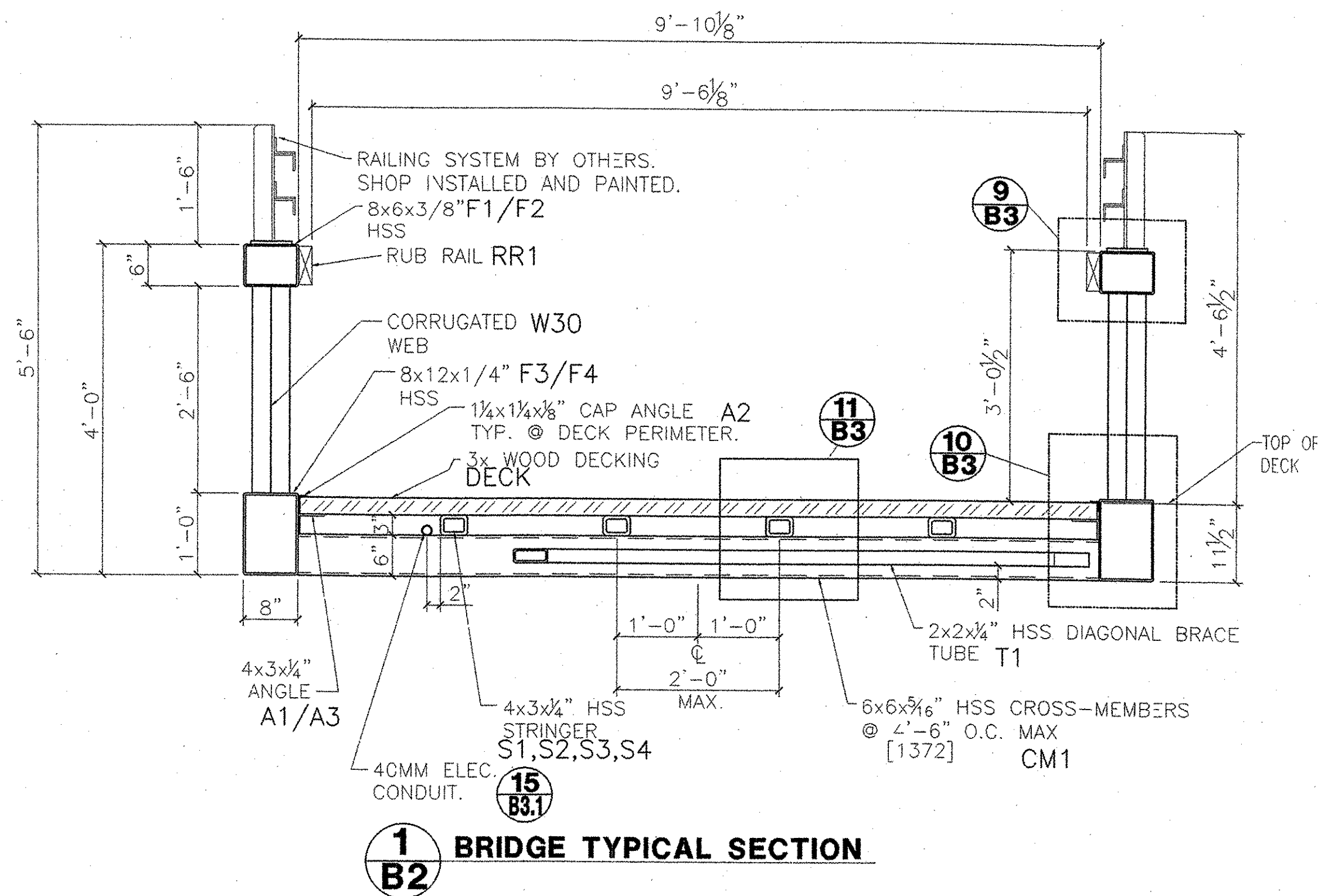
BRIDGE TOP VIEW
SCALE : 1/4" = 1'-0"



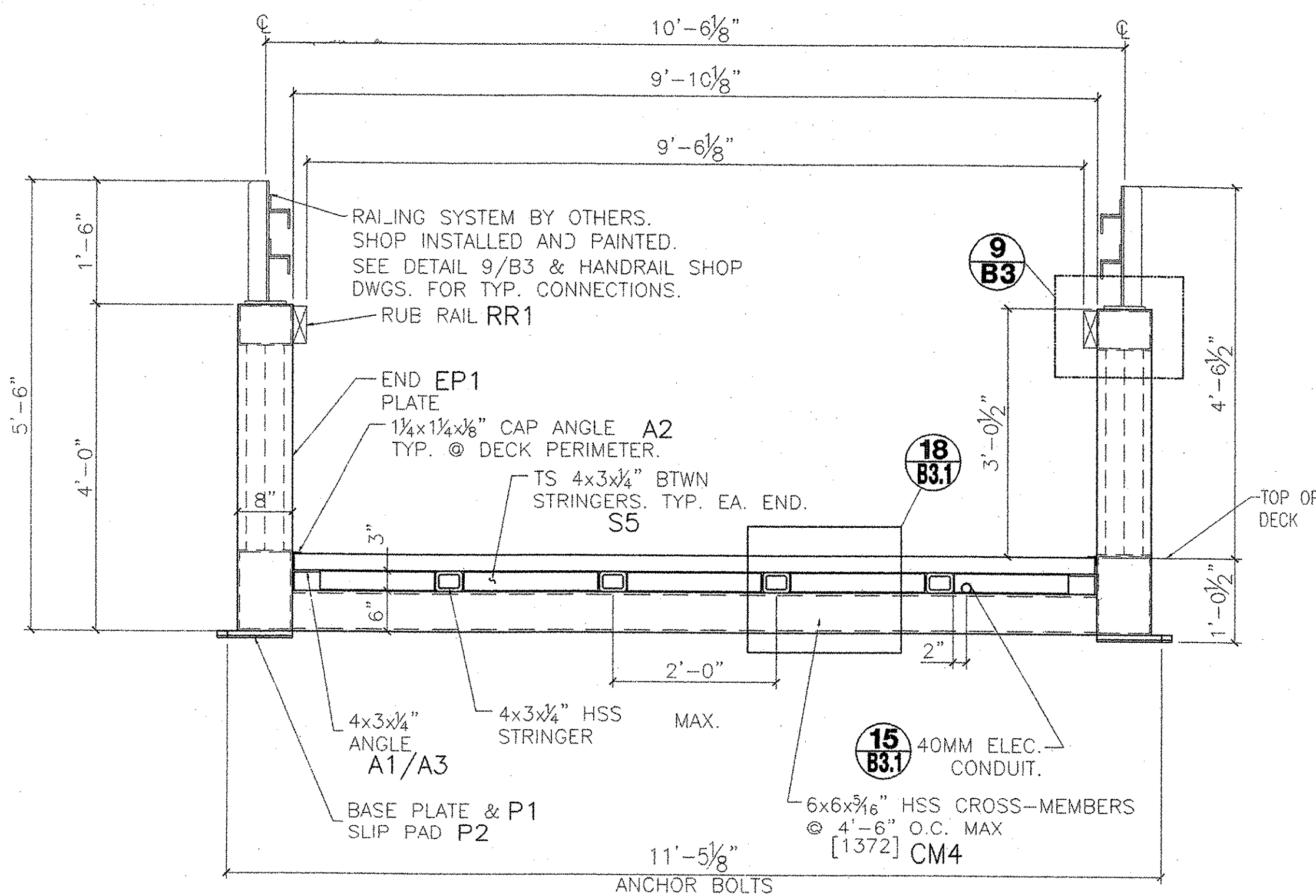
BRIDGE SIDE VIEW
SKEW NOT SHOWN FOR CLARITY
SCALE : 1/4" = 1'-0"



BRIDGE BOTTOM VIEW
SCALE : 1/4" = 1'-0"

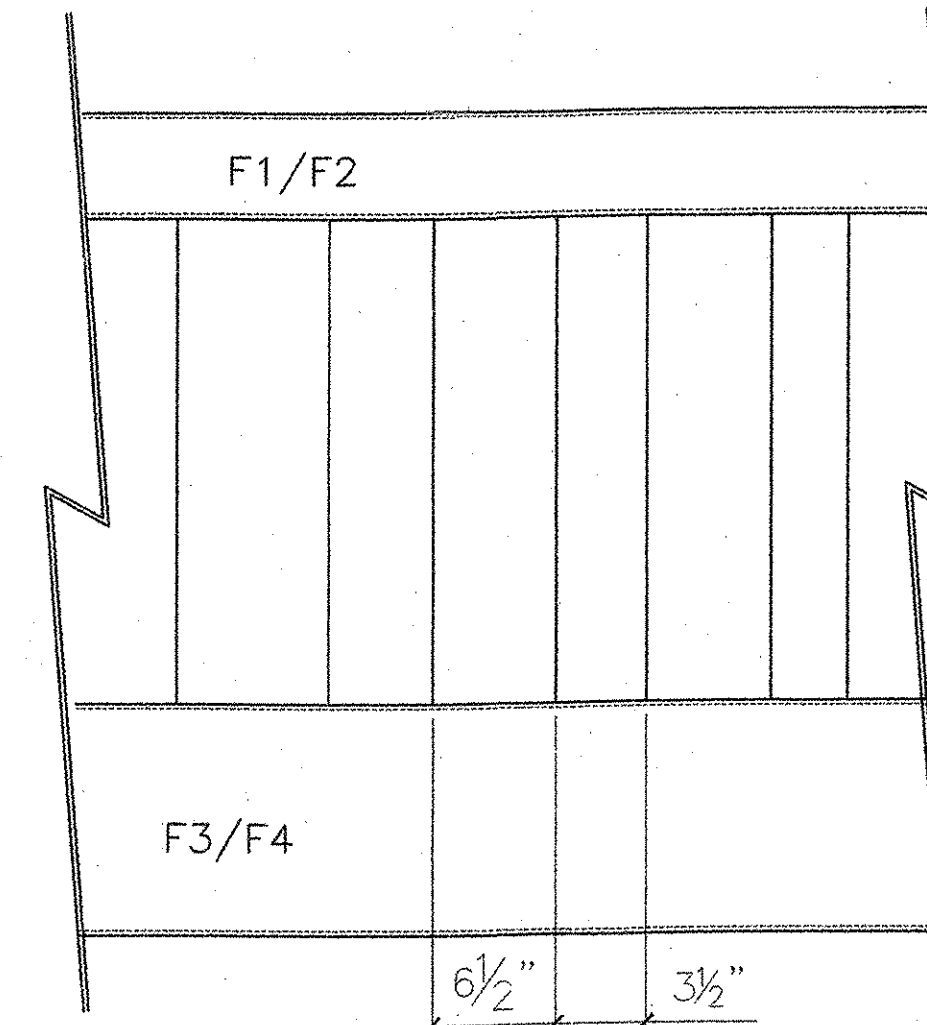
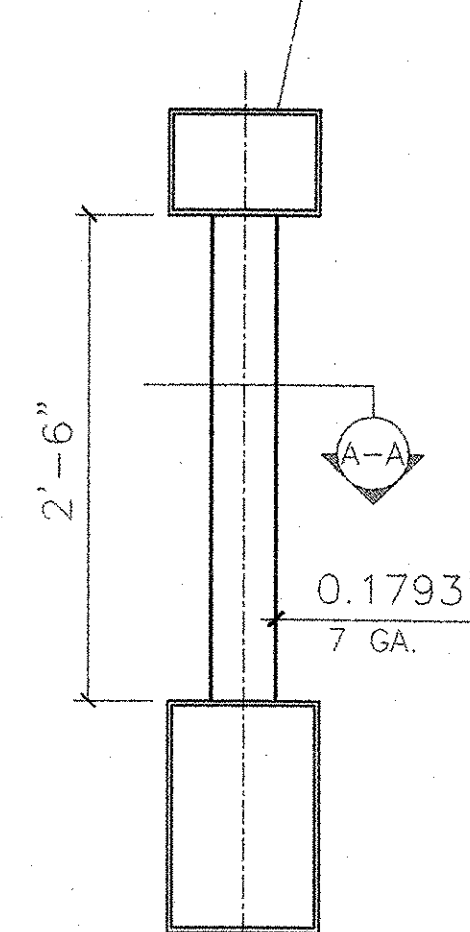


1 BRIDGE TYPICAL SECTION



2 BRIDGE TYPICAL END VIEW

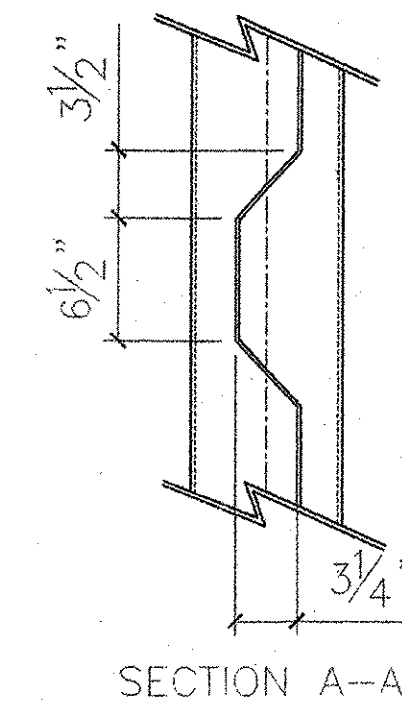
SEE PLANS FOR
TUBE STEEL SIZING



**DETAIL OF CORRUGATED
EAGLESPAN BEAM**

SEE ALSO

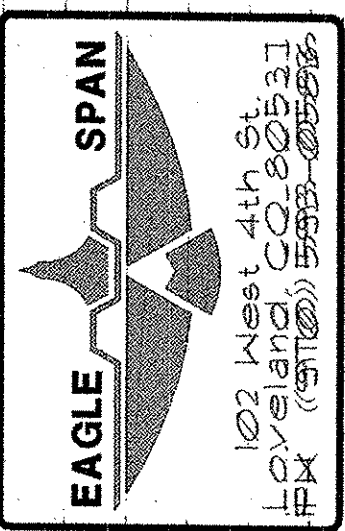
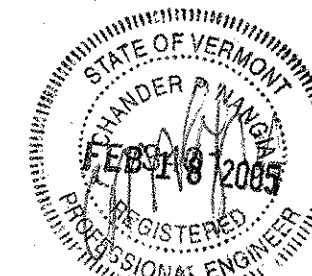
14
B3



MATERIALS LIST										MINIMUM YIELD	
MK #	QTY	MAT	DIMENSIONS			LENGTH / EA	WT/FT	TTL LF	TTL WT	STRENGTH (KSI)	
F1A	1	TS	8.0000	x	6.0000	x	0.3750	40'-	8 3/4	32.58	40.7
F2A	1	TS	8.0000	x	6.0000	x	0.3750	49'-	6 1/4	32.58	49.5
F3A	1	TS	12.0000	x	8.0000	x	0.2500	40'-	9 5/8	32.63	40.8
F4A	1	TS	12.0000	x	8.0000	x	0.2500	49'-	5 1/2	32.63	49.5
F1B	1	TS	8.0000	x	6.0000	x	0.3750	40'-	8 9/16	32.58	40.7
F2B	1	TS	8.0000	x	6.0000	x	0.3750	49'-	6 5/8	32.58	49.6
F3B	1	TS	12.0000	x	8.0000	x	0.2500	40'-	7 15/16	32.63	40.7
F4B	1	TS	12.0000	x	8.0000	x	0.2500	49'-	7 7/16	32.63	49.6
CM1	18	TS	6.0000	x	6.0000	x	0.3125	9'-	10	23.34	177.0
CM2	2	TS	6.0000	x	6.0000	x	0.3125	9'-	10	23.34	19.7
CM3	2	TS	6.0000	x	6.0000	x	0.3125	4'-	5 5/16	23.34	8.9
CM4	2	TS	6.0000	x	6.0000	x	0.3125	18'-	3 1/4	23.34	26.5
T1	16	TS	2.0000	x	2.0000	x	0.2500	10'-	7 1/2	5.41	170.0
T2	2	TS	2.0000	x	2.0000	x	0.2500	10'-	4 5/8	5.41	20.8
T3	2	TS	2.0000	x	2.0000	x	0.2500	6'-	8 3/4	5.41	13.5
S1	2	TS	4.0000	x	3.0000	x	0.2500	42'-	6 9/16	10.51	85.1
S2	2	TS	4.0000	x	3.0000	x	0.2500	44'-	2 11/16	10.51	88.4
S3	2	TS	4.0000	x	3.0000	x	0.2500	45'-	10 7/8	10.51	91.8
S4	2	TS	4.0000	x	3.0000	x	0.2500	47'-	7	10.51	95.2
S5	10	TS	4.0000	x	3.0000	x	0.2500	2'-	5 3/4	10.51	24.8
A1	4	L	4.0000	x	3.0000	x	0.2500	40'-	10 1/2	5.80	163.5
A3	4	L	4.0000	x	3.0000	x	0.2500	48'-	10	5.80	195.3
A2	4	L	1.2500	x	1.2500	x	0.1250	49'-	1 1/2	1.01	196.5
EP1	4	FB	0.7500	x	10.0000	x	0.0000	4'-	0	25.52	16.0
SP1	4	FB	1.0000	x	8.0000	x	0.0000	4'-	8	27.20	18.7
P1	4	FB	0.7500	x	10.0000	x	-	0'-	10	25.52	3.3
P2	4	UHMWP	0.2500	x	10.0000	x	-	0'-	10	1.00	3.3
W30A	2	WEB	30.0000	x	0.1800	x	-	51'-	19.50	102.0	1989.00
W30B	2	WEB	30.0000	x	0.1800	x	-	61'-	19.50	123.8	2414.75
PAN	100	SCREW	#10	x	2.0000	x	-	2	0.0	5.00	N/A
TEK5	1300	SCREW	#12	x	3.5000	x	-	3 1/2	0.0	15.00	N/A
TEK5	100	SCREW	#12	x	2.5000	x	-	2 1/2	0.0	8.00	N/A
RR1	18	WOOD	2.0000	x	6.0000	x	-	10'-	0	2.00	180.0
CNDT	10	CONDUIT	1.5000	x	EMT	x	-	10'-	0	0.50	100.0
DECK	149	DECK	3.0000	x	8.0000	x	-	9'-	9 1/4	3.75	1455.9
RAIL	2	RAIL	0.0000	x	0.0000	x	-	88'-	0	11.17	176.0
BOLTS	28	A490	1.0000	x	3.5000	x	-	0'-	3 1/2	1.00	8.2

TOTAL WEIGHT
POUNDS

37923.13

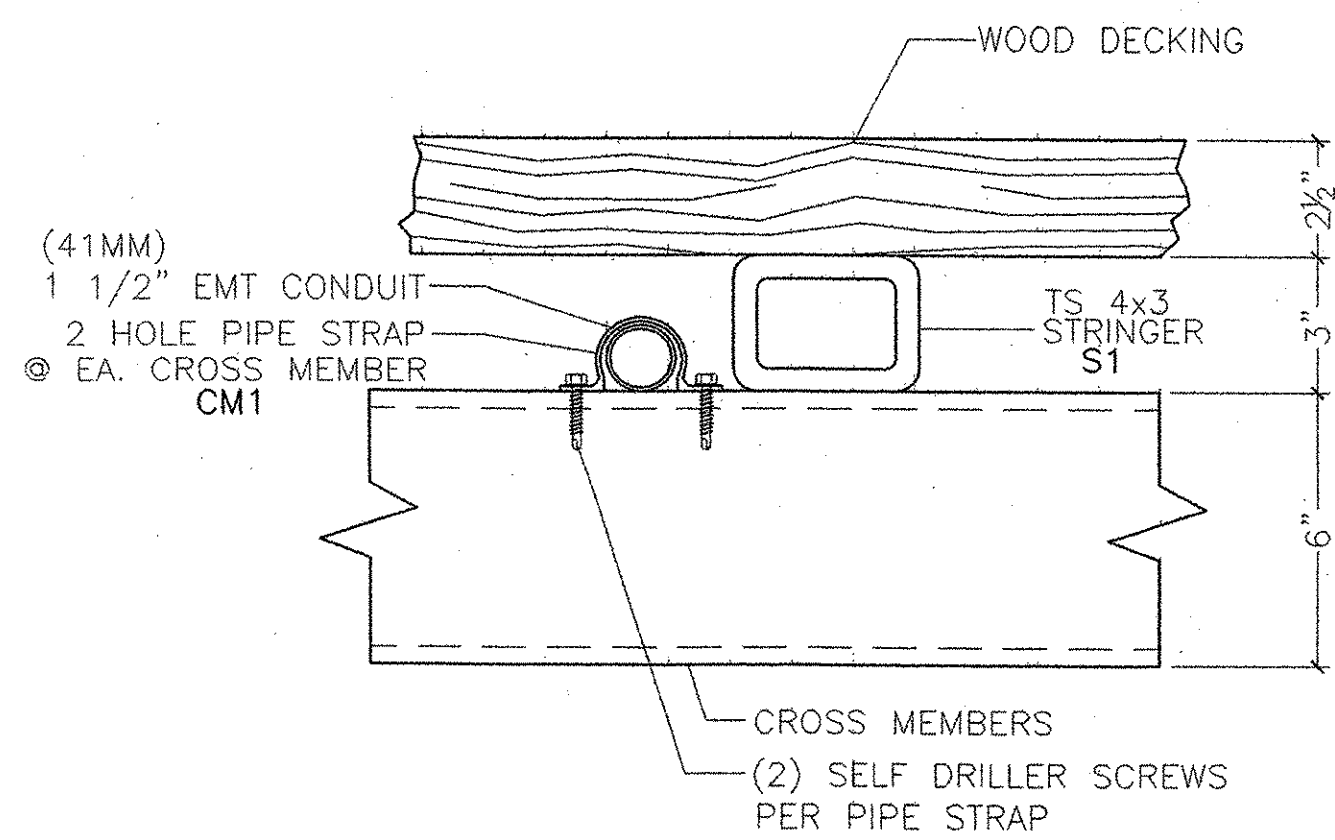


WHITCOMB CONSTR.
WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
BEDFORD, VT

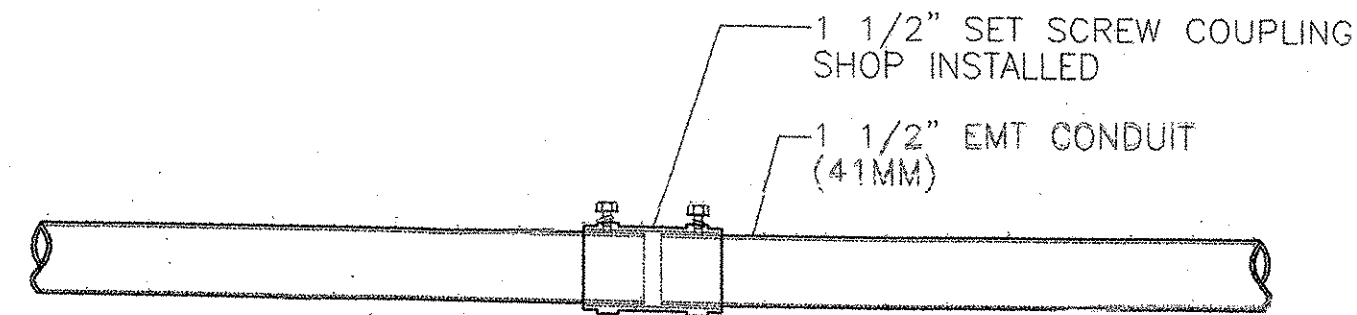
DATE	REV.	REVISIONS
1/8/04	0	FOR OWNER APPROVAL
1/21/04	1	CUSTOMER CHANGES
9/3/04	2	RE-SUBMITTAL
10/12/04	3	RE-SUBMITTAL
1/17/05	5	AS MANUFACTURED

BIG R
MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
80639
PH: (970) 356 9600
FAX: (970) 356 3041

DRAWN:	MD6
DATE:	1/1/04
CHECKED:	SFP
DATE:	1/8/04
APPROVED:	SFP
REV.	5
PROJECT NO.	24-115E
SHEET NO.	B2

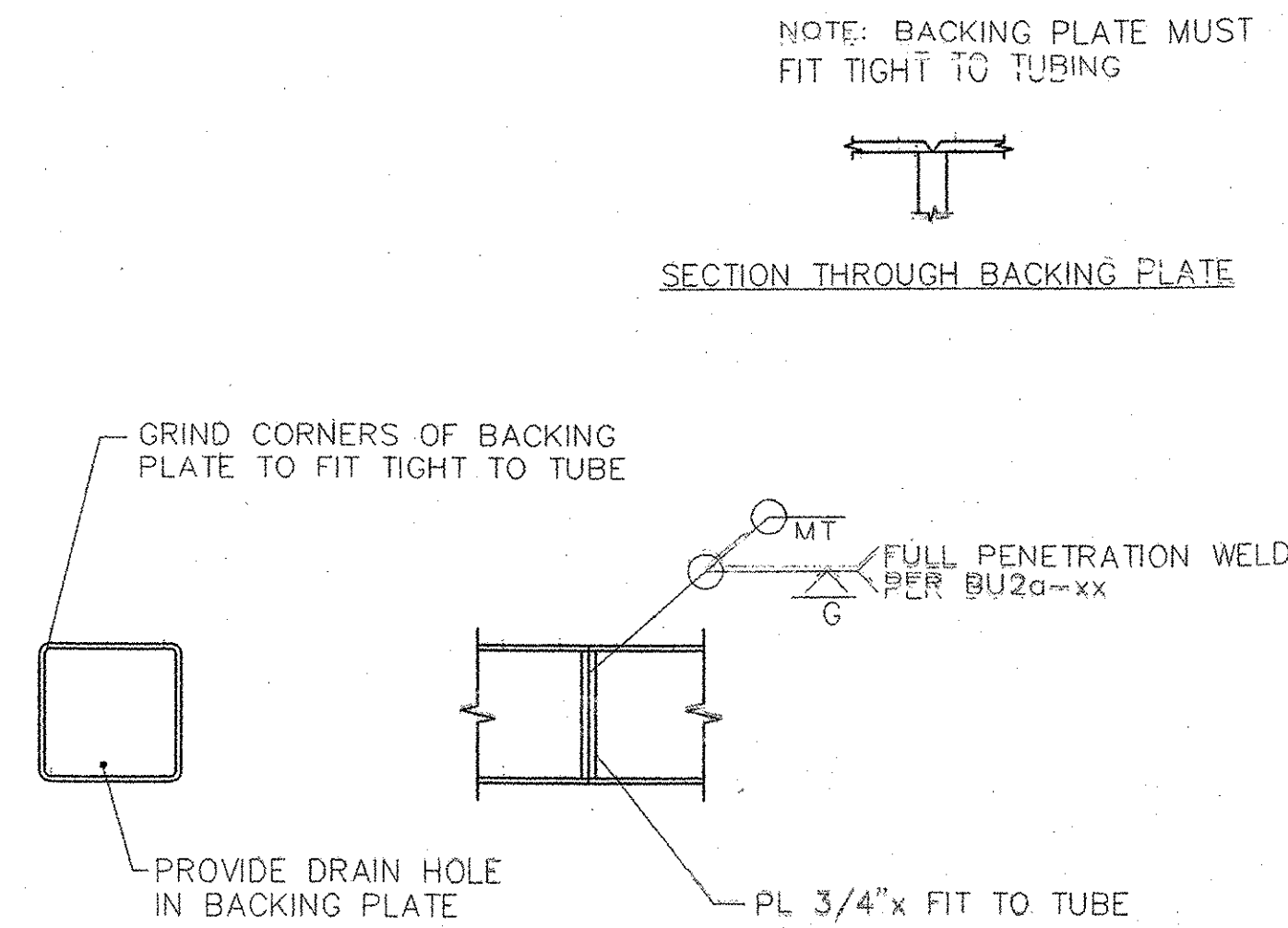


CONDUIT ATTACHMENT DETAIL

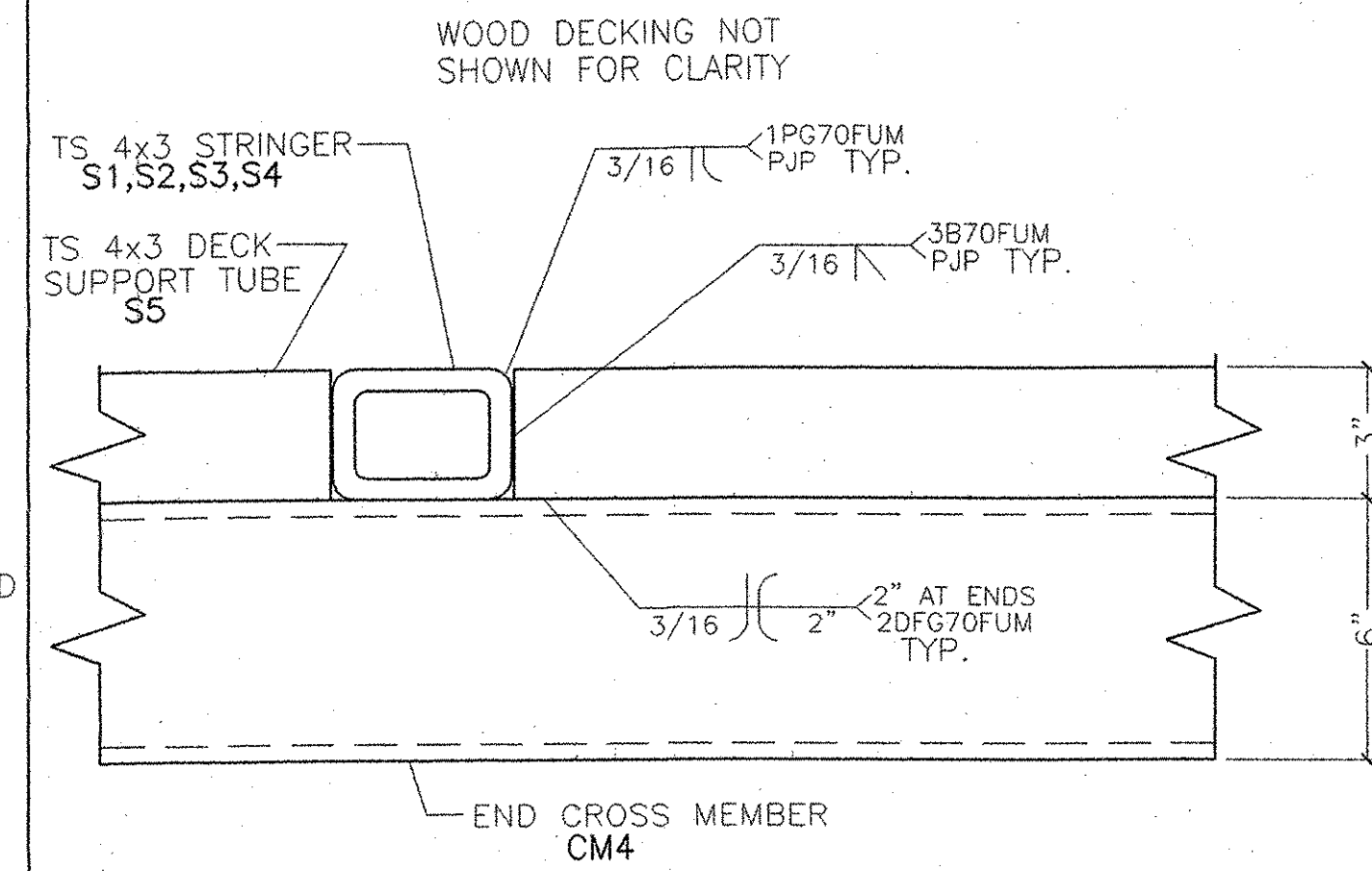


NOTE:
SET SCREW COUPLING MUST BE INSTALLED
NO MORE THAN 8" FROM CROSS MEMBER
OTHERWISE AS NEEDED.

CONDUIT SPLICE DETAIL



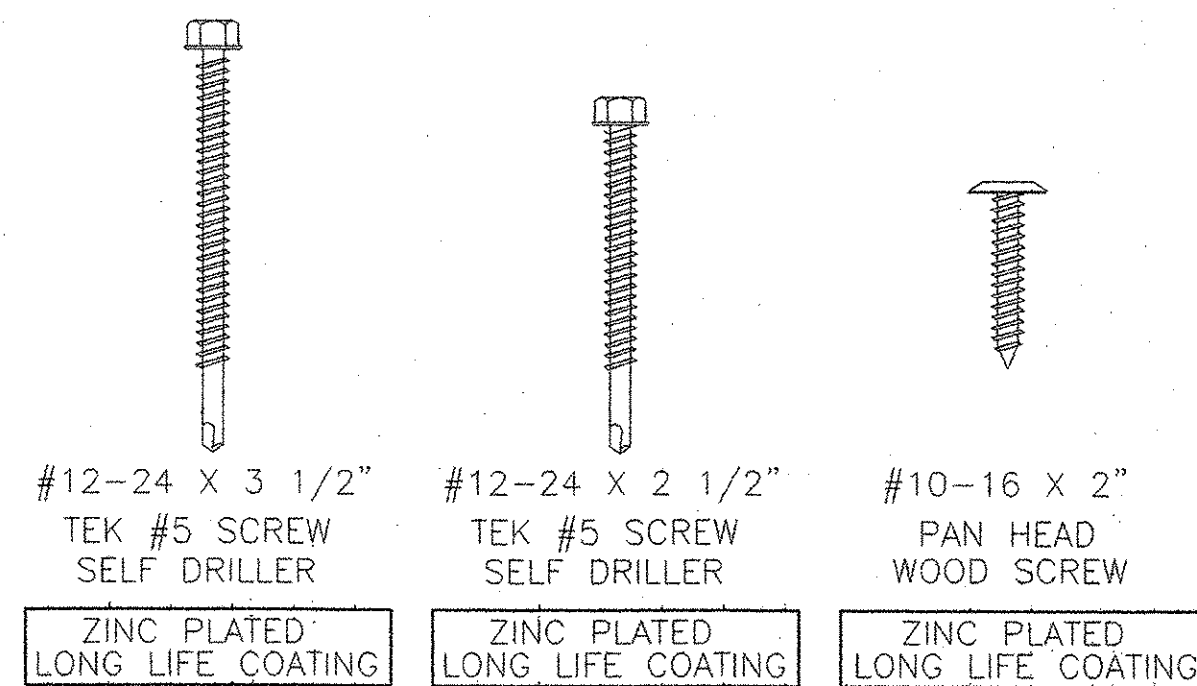
ALL LOCATIONS AS REQUIRED IN SHOP TYP.



ENLARGED VIEW
3" = 1'-0"

15
B3.1

ENLARGED VIEW
3" = 1'-0"



BRIDGE FASTENERS
N.T.S.

16
B3.1

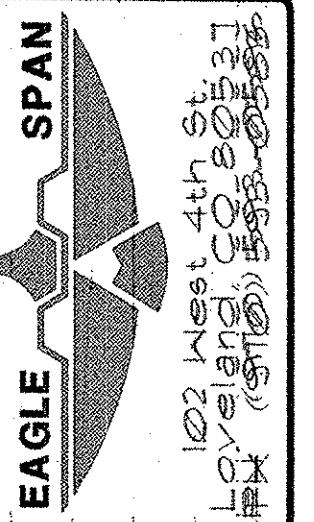
ENLARGED VIEW
3" = 1'-0"

17
B3.1

TYPICAL SHOP SPLICE DETAIL FOR TUBING
N.T.S.

18
B3.1

ENLARGED VIEW
3" = 1'-0"



WHITCOMB CONSTR.
WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
BEDFORD, VT

REV.	DATE	REVISIONS
0	1/8/04	FOR OWNER APPROVAL
1	1/27/04	CUSTOMER CHANGES
2	9/3/04	RE-SUBMITTAL
3	10/12/04	RE-SUBMITTAL
5	1/7/05	AS MANUFACTURED

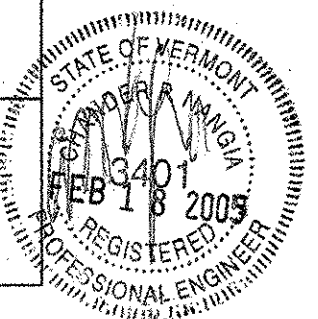
BIG R
MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
PH: (970) 358 9600
FAX: (970) 358 9641

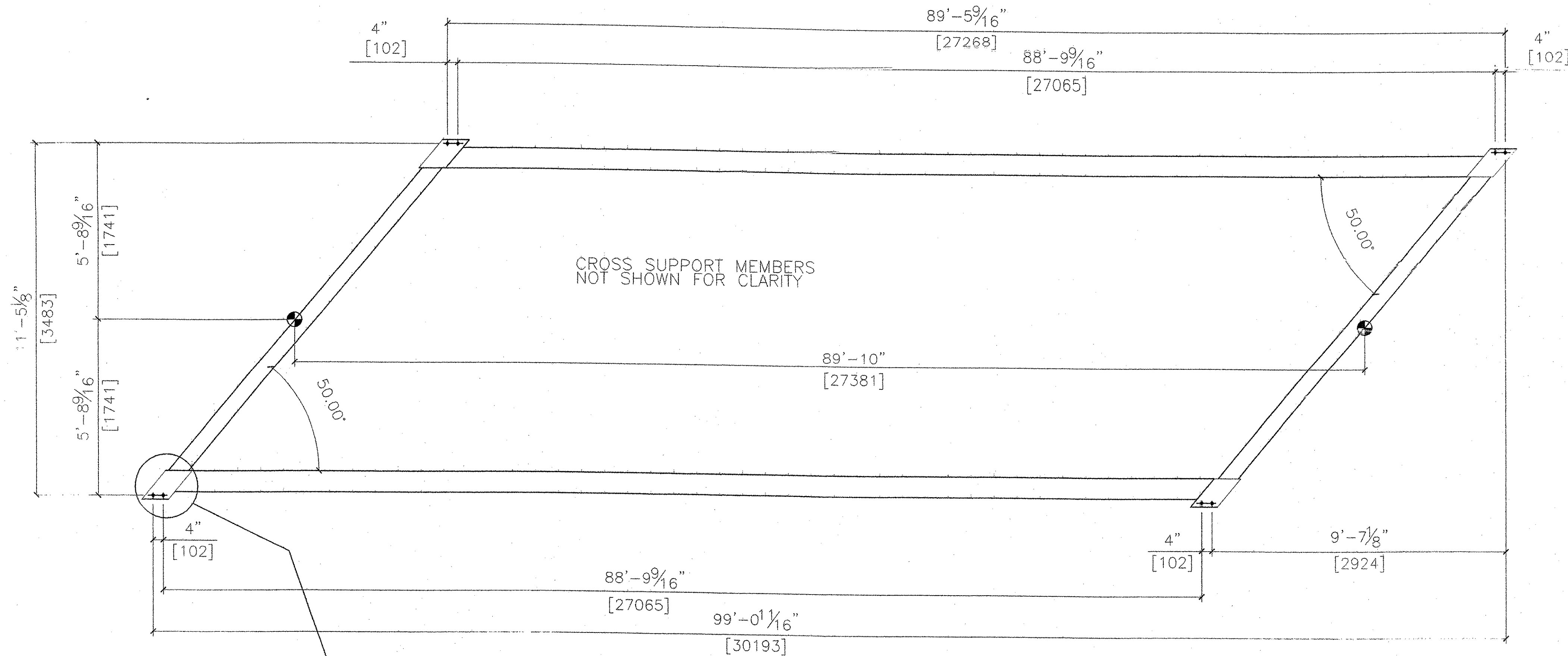
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DATE: 1/8/04
APPROVED: SFP

REV. 5

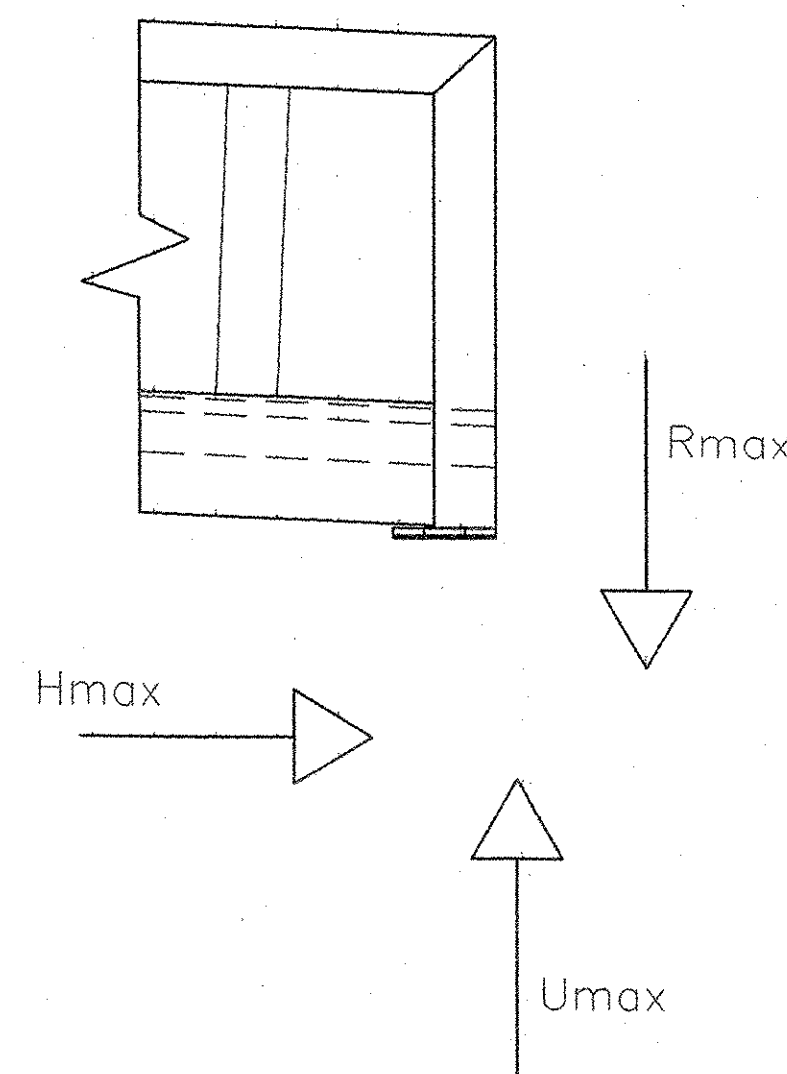
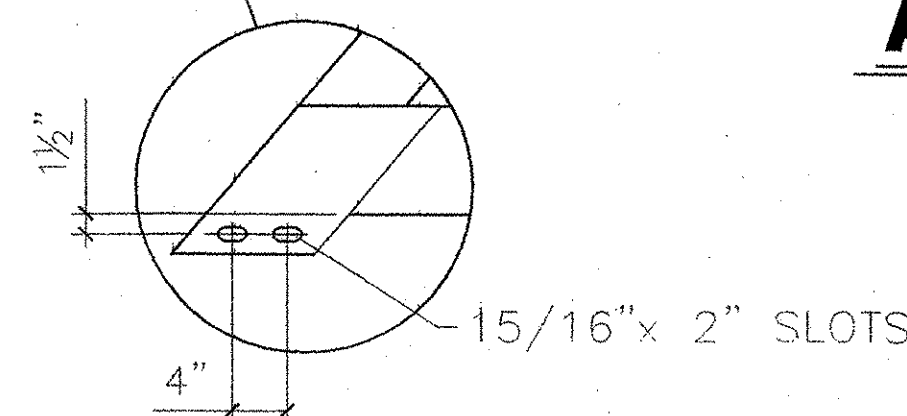
PROJECT NO.
24-775E

SHEET NO.
B3.1





ANCHOR BOLT SETTING PLAN



DESIGN LOADS:

30 PSF SNOW
85 PSF LIVE LOAD
SEISMIC 1
90 MPH WIND - EXPOSURE C
20,000 LB. CONCENTRATED LOAD

AASHTO H10 VEHICLE LOAD

BRIDGE REACTIONS

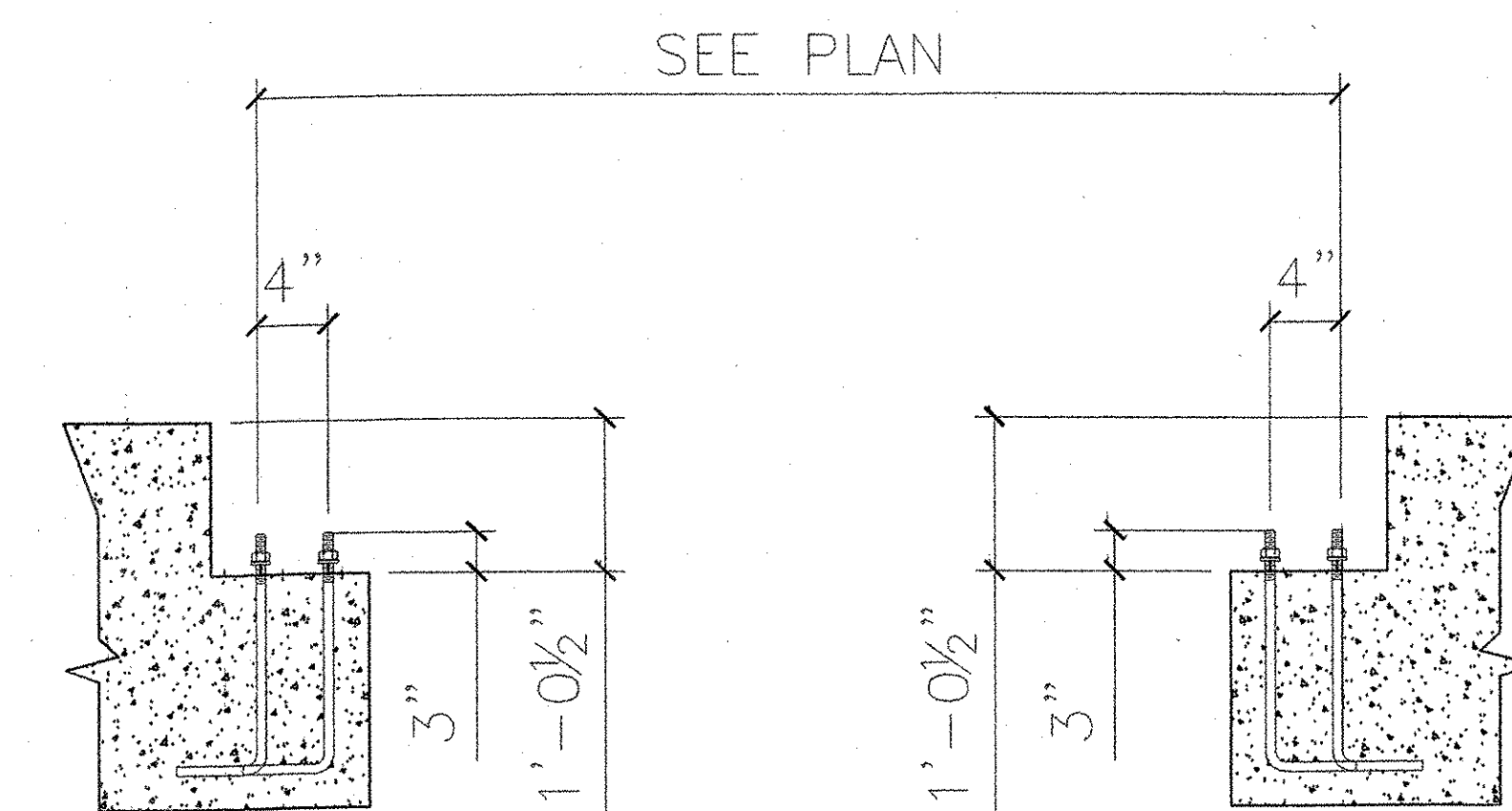
(ALL REACTIONS ARE IN KIPS)

PER BASE PLATE	Rmax	HLmax	HTmax	Umax
TYPICAL	29.53	9.4	2.8	0.0

THESE REACTIONS APPLY TO EACH BASE PLATE,
THERE ARE A TOTAL OF (4) BASE PLATES FOR THIS BRIDGE STRUCTURE

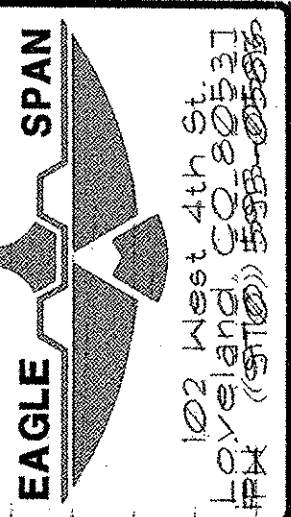
HL = HORIZONTAL REACTION IN THE LONGITUDINAL DIRECTION (PARALLEL TO BRIDGE)
HT = HORIZONTAL REACTION IN THE TRANSVERSE DIRECTION (PERPENDICULAR TO BRIDGE)
R = MAXIMUM DOWNWARD VERTICAL REACTION
U = MAXIMUM UPWARD REACTION (NET)

NOTE:
WEIGHT OF RAILING BY OTHERS HAS BEEN INCLUDED IN THE
DESIGN OF THIS BRIDGE.



CONCRETE FOOTING DETAIL

ALL ANCHOR RODS ARE 3/4" DIA. (A1554)



WHITCOMB CONSTR.
WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
BEDFORD, VT

DATE	REV.	REVISIONS
1/8/04	0	FOR OWNER APPROVAL
1/27/04	1	CUSTOMER CHANGES
9/3/04	2	RE-SUBMITTAL
10/12/04	3	RE-SUBMITTAL
1/11/05	B	AS MANUFACTURED

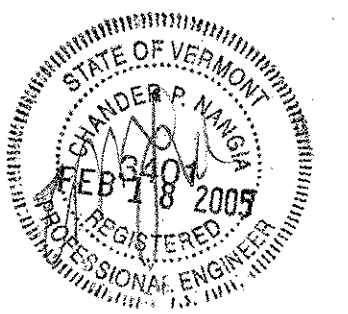
BIG R
MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
PH: (970) 356 9600
FAX: (970) 356 9601

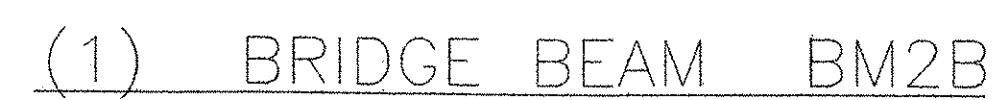
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DATE: 1/7/04
CHECKED: SFP
DATE: 1/8/04
APPROVED: SFP

REV. 5

PROJECT NO. 24-775E

SHEET NO. B4





EAGLE SPAN



102 West 4th St
Lowland, GA 30551
#X (911) 333-0533

WHITCOMB CONSTR.
WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
BBA++FEBXX V+

DATE	REV.	REVISIONS
7/8/04	0	FOR OWNER APPROVAL
7/21/04	1	CUSTOMER CHANGES
9/3/04	2	RE - SUBMITTAL
10/12/04	3	RE - SUBMITTAL
3/4/05	5	AS RECONSTRUCTED

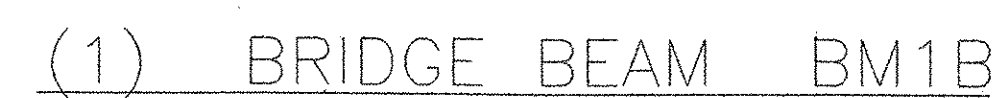
BIG R
MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
PH: (970) 356 9600
FAX: (970) 356 9621

DRAWN:	MDS
DATE:	7/7/04
CHECKED:	SFP
DATE:	7/8/04
APPROVED:	SFP

REV. 5

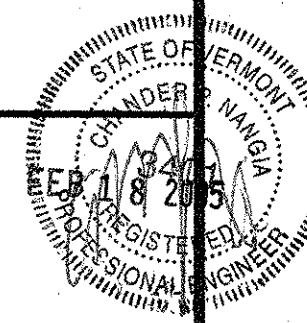
PROJECT NO. 24-775E

SHEET NO. B5.1



MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION	MK	QTY	DESCRIPTION
F1B	1	TS 8 X 6 X 3/8	-	-	-	-	-	-	-	-	-
F3B	1	TS 12 X 8 X 1/4	-	-	-	-	-	-	-	-	-
SP1	1	FB 1 X 8	-	-	-	-	-	-	-	-	-
EP1	1	FB 3/4 X 10	-	-	-	-	-	-	-	-	-
W30A	1	CORRUGATED WEB 7GA. X 30"	-	-	-	-	-	-	-	-	-

D4

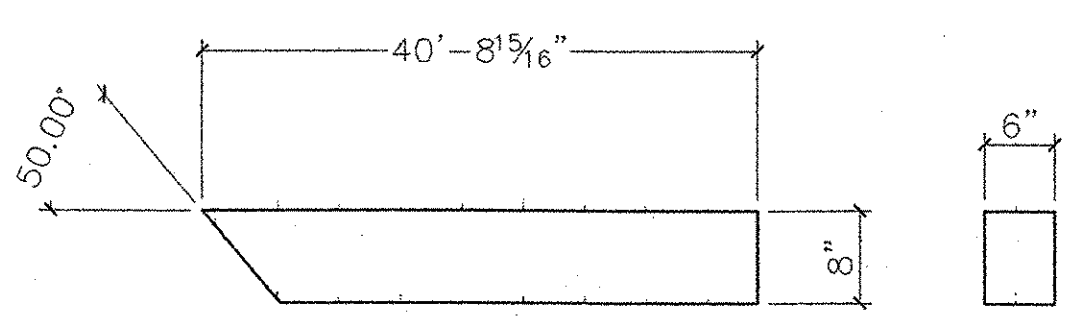
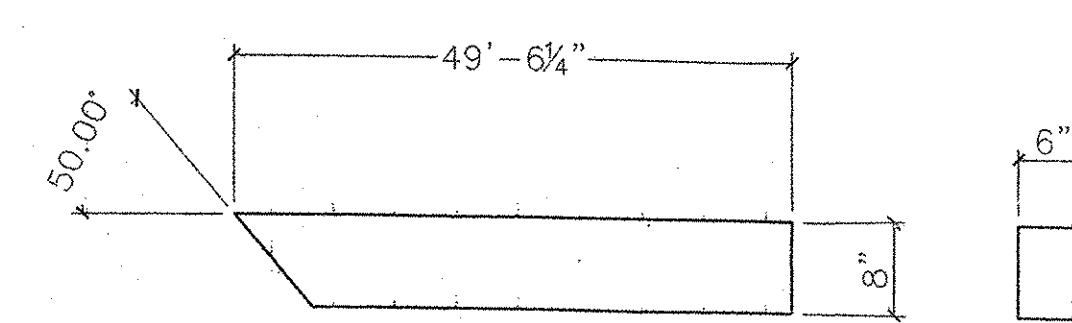
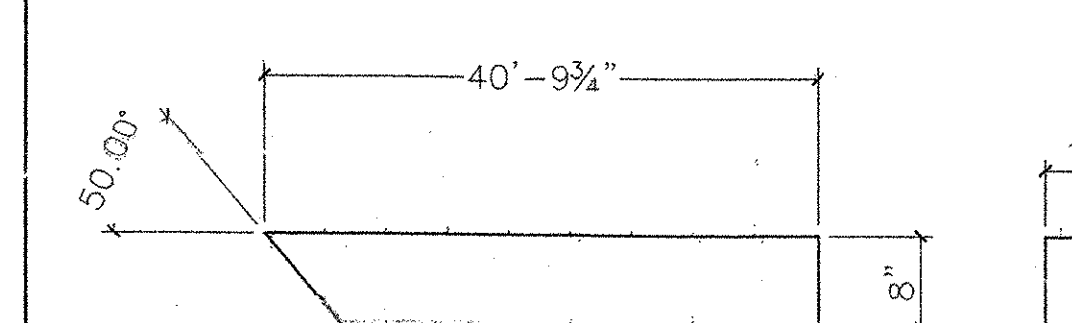
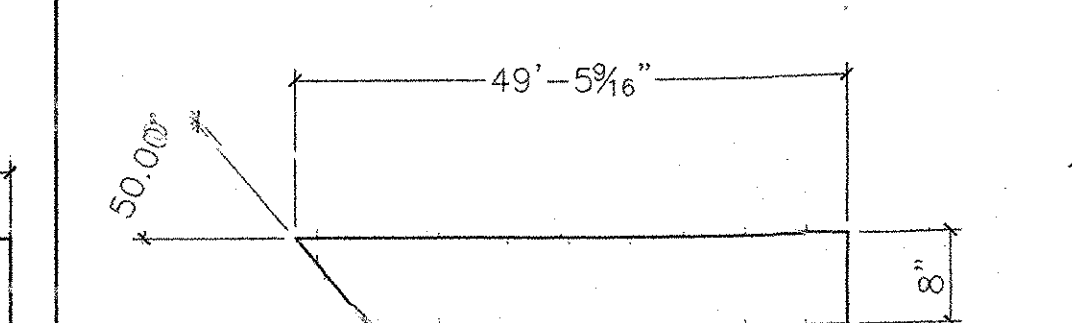
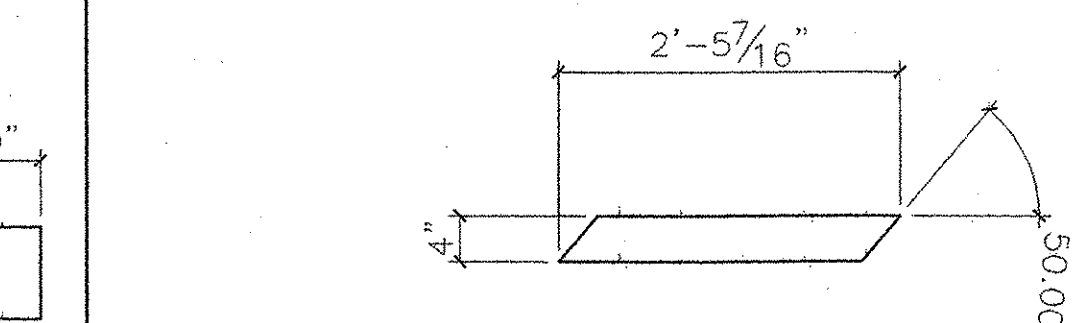
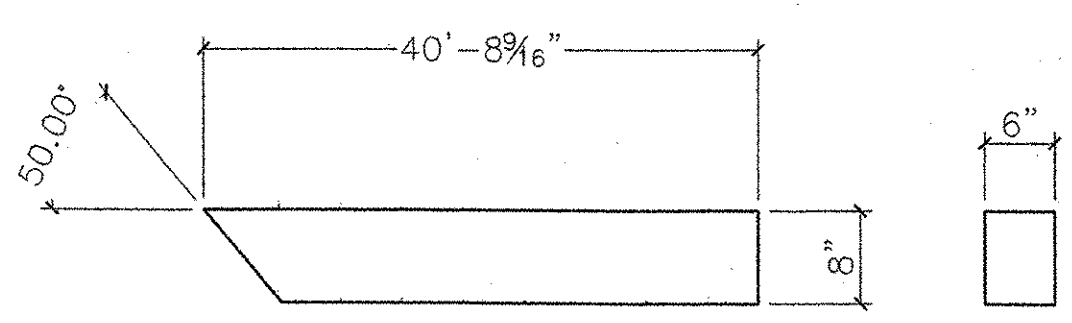
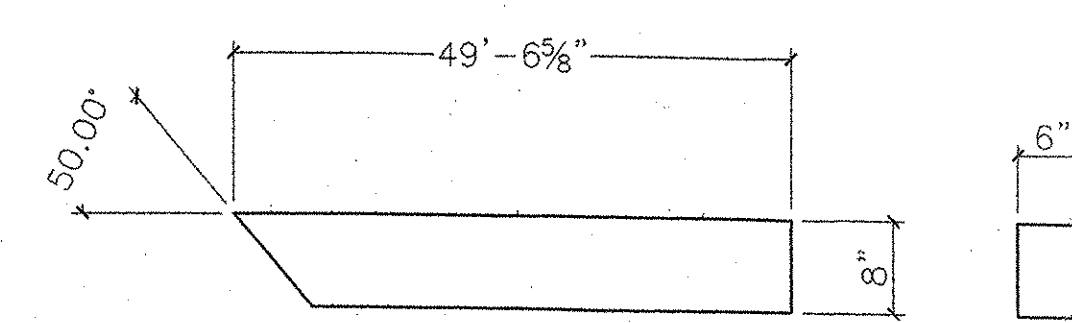
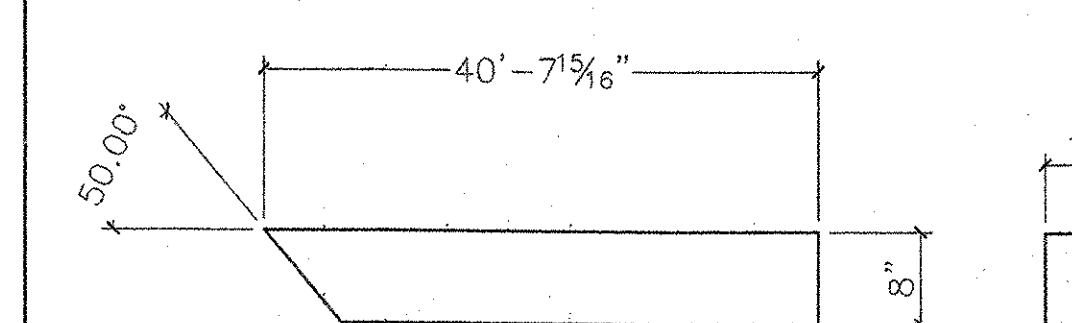
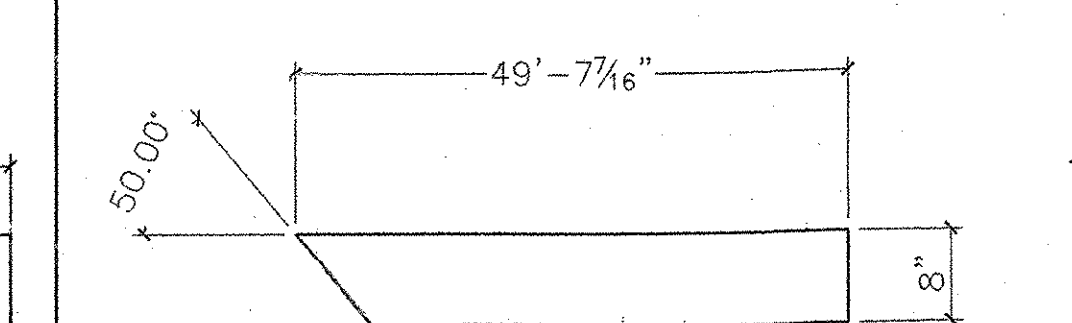
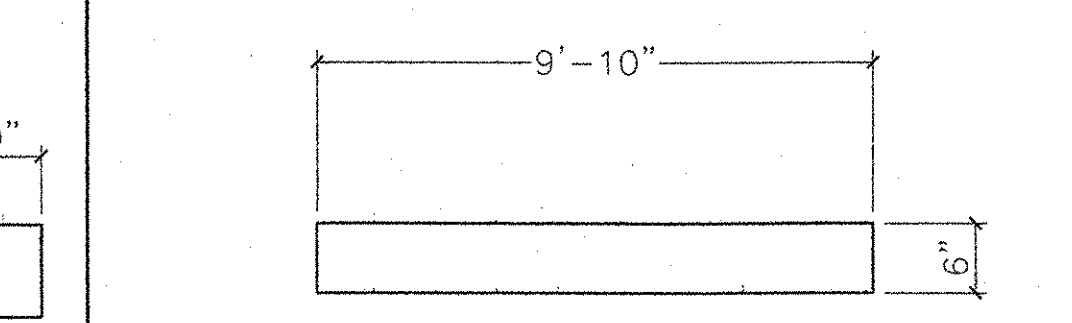
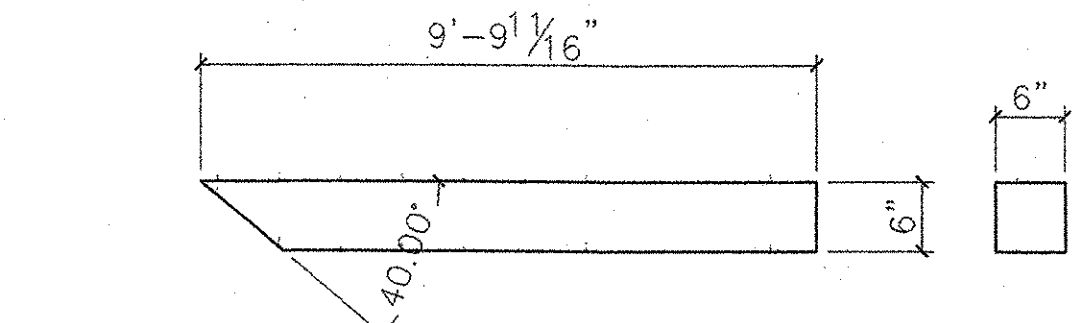
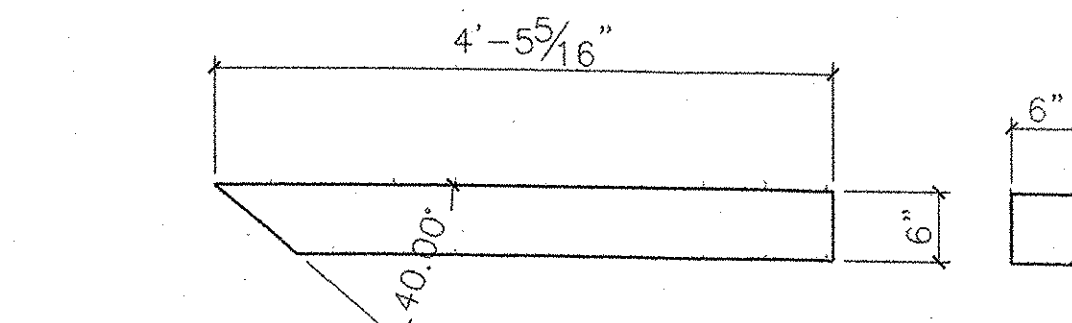
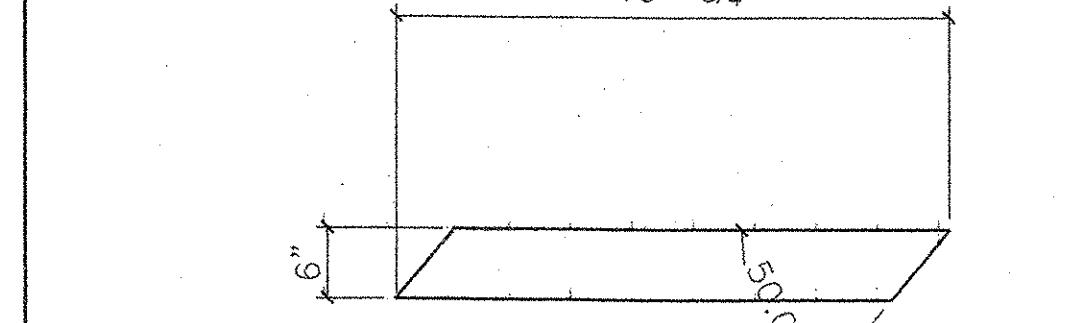
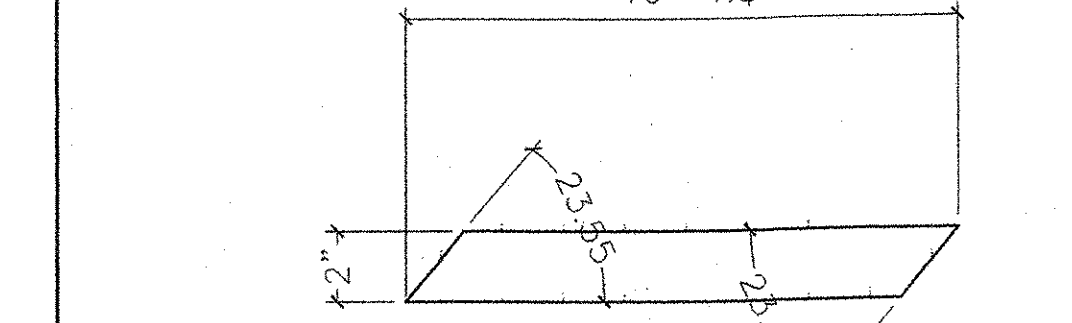
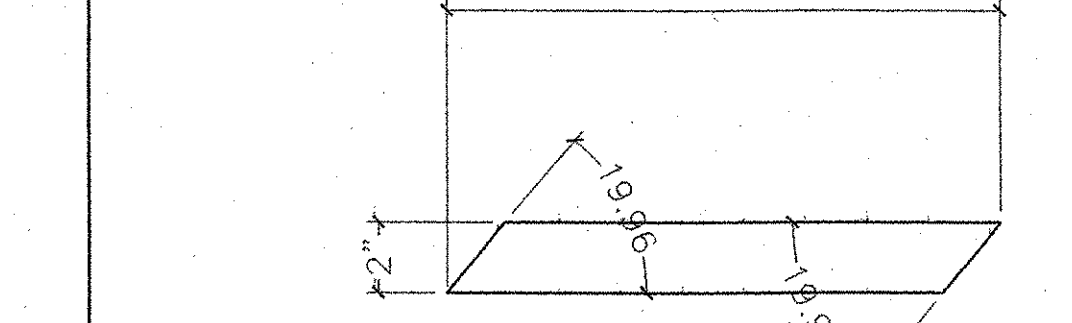
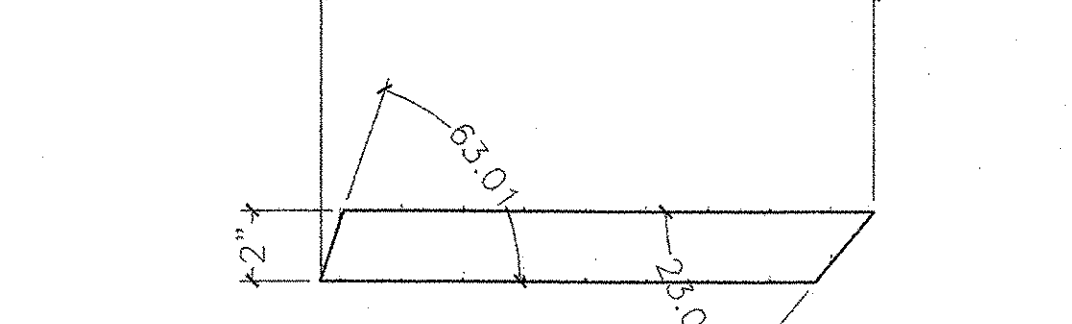
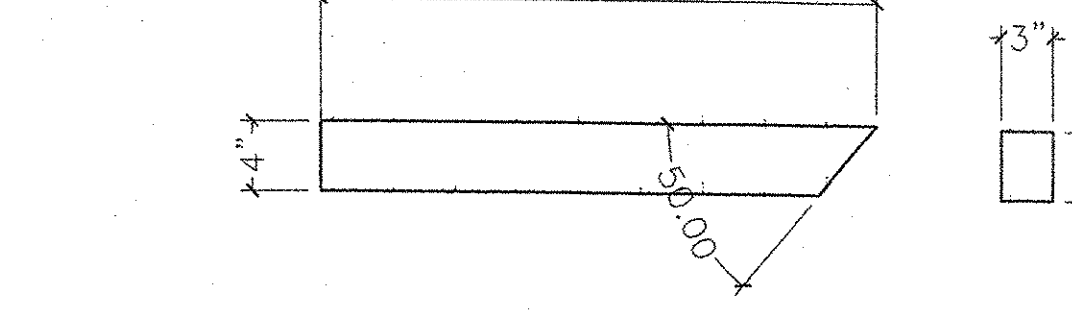
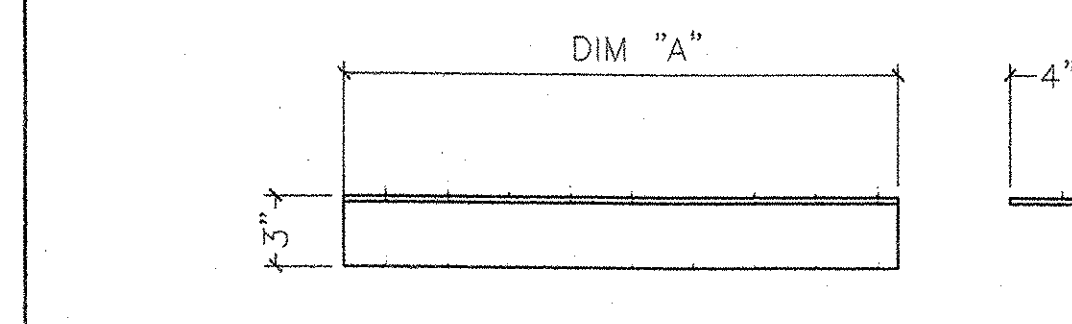
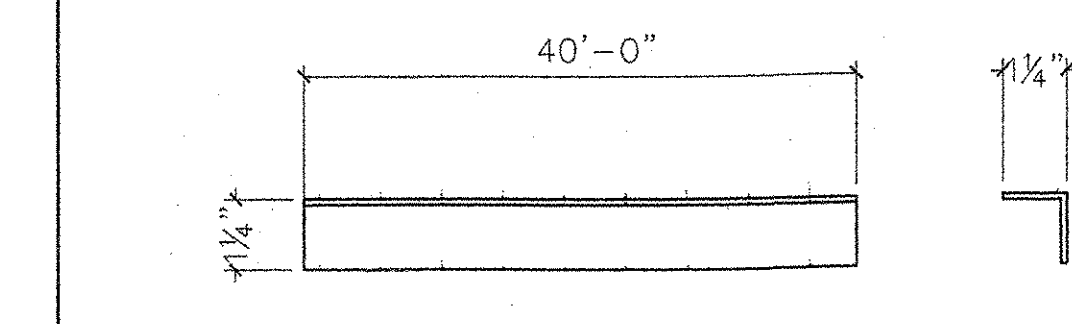
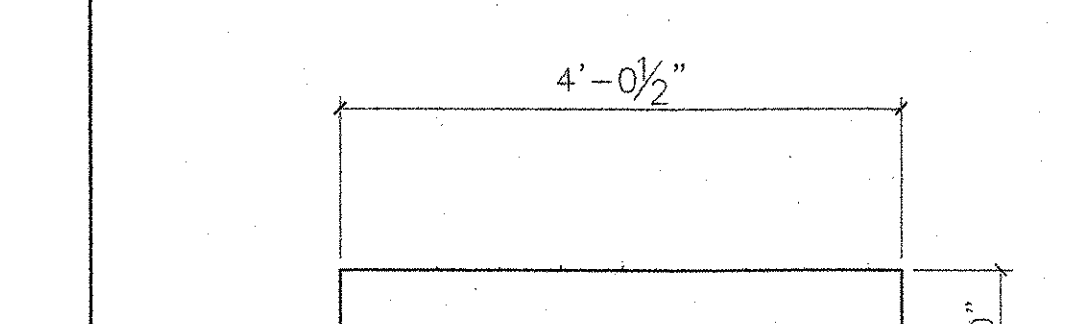
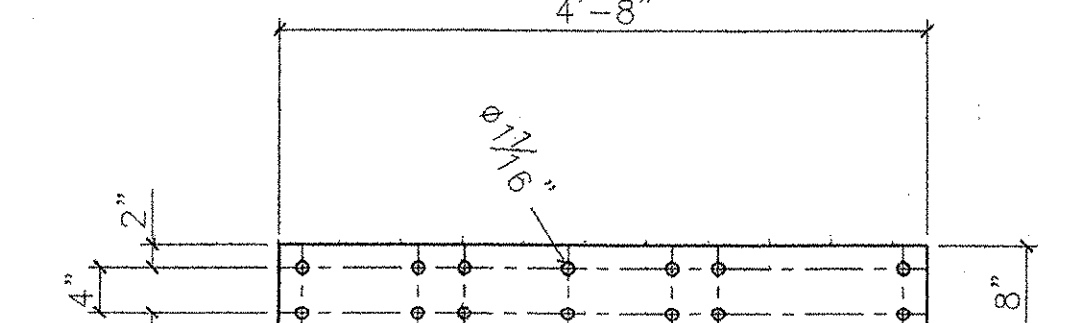
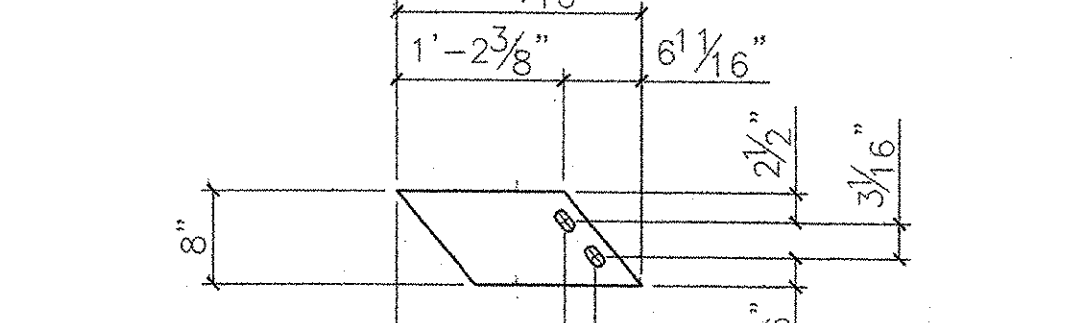
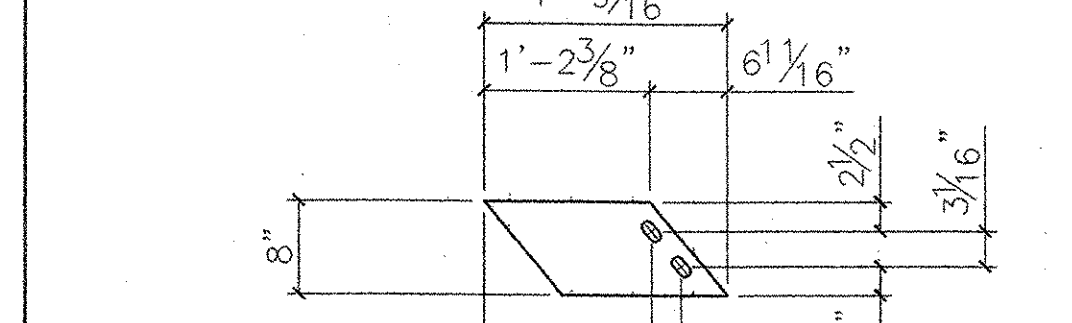
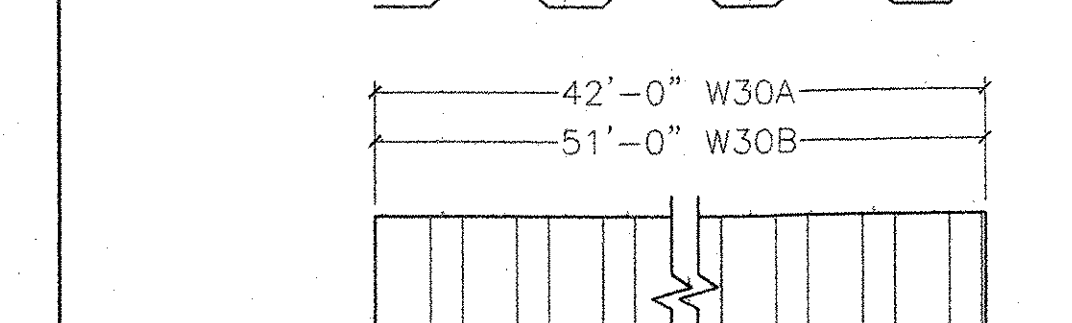
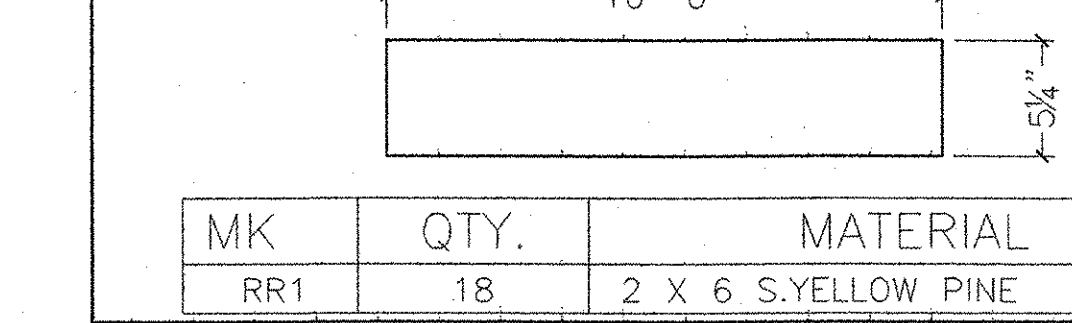
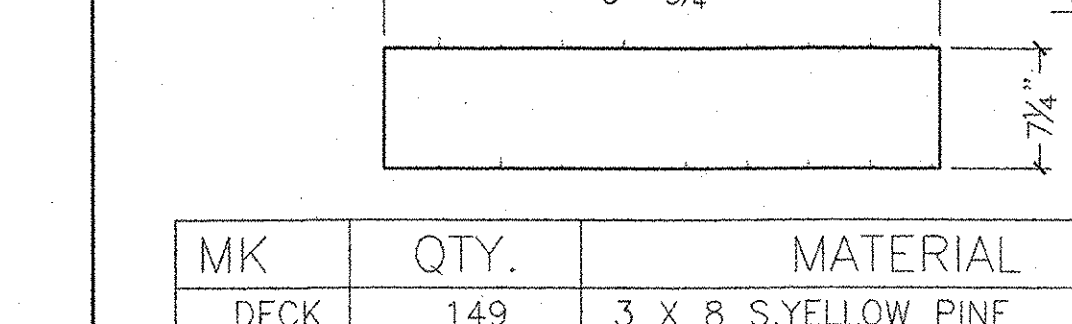


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1	7/27/04	CUSTOMER CHANGES
2	9/3/04	RE-SUBMITTAL
3	10/12/04	RE-SUBMITTAL
4	11/18/04	AS MANUFACTURED

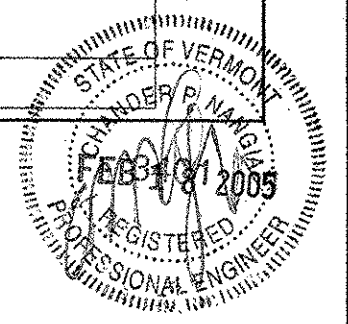
BIG R
MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
80639
(970) 356-9800
FAX (970) 356-9801

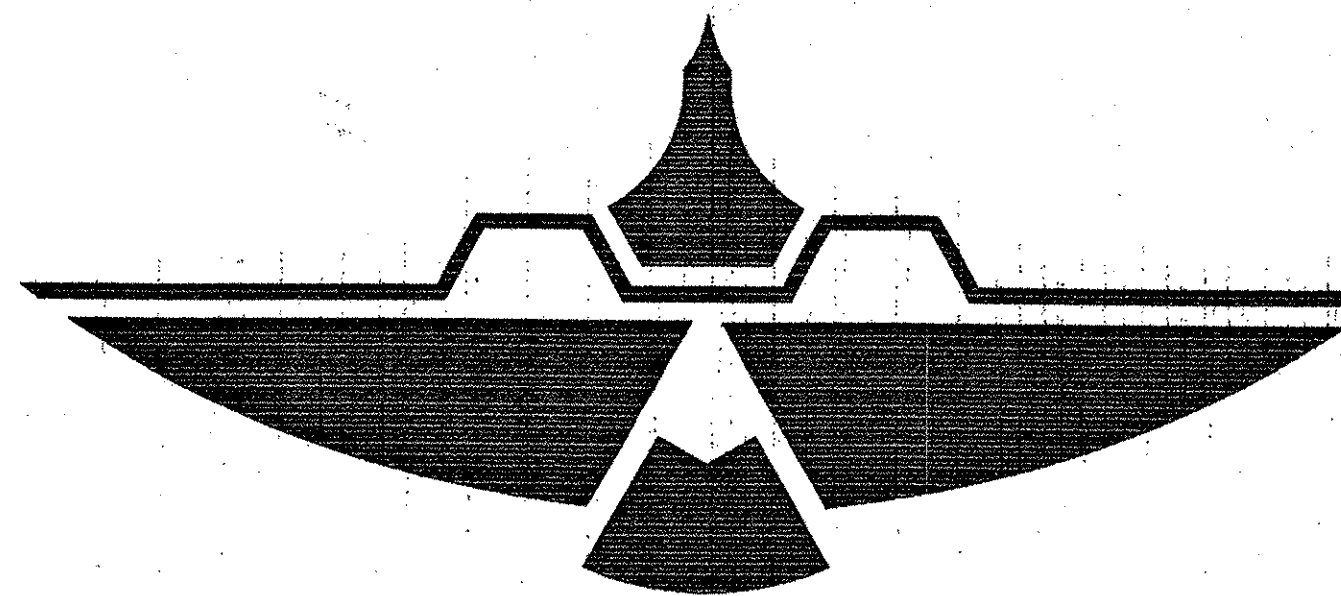
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DATE:	1/1/04
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DATE:	1/8/04
APPROVED:	SPF

REV.	5
PROJECT NO.	24-775E
SHEET NO.	B6

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MATERIALS CUT LIST
N.T.S.





EAGLESPAN STEEL STRUCTURES, INC.

102 WEST FOURTH STREET
LOVELAND, COLORADO 80537

PHONE (970) 593-0596
FAX (970) 593-0583

WHETSTONE BROOK PATHWAY PEDESTRIAN BRIDGE BRATTLEBORO, VERMONT

FRANK W. WHITCOMB CONSTRUCTION, CORP.

ACCEPTED
ACCEPTED AS CORRECTED
REJECTED, REVISE AND RESUBMIT
REJECTED, UNACCEPTABLE

Checking is only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. The Engineer assumes no liability for errors or omissions that may be contained herein. The Contractor, by approving and submitting these documents, verifies their accuracy as stipulated on the Contractor's Shop Drawing Stamp.

DUBOIS AND KING
Date 4.5.05 By JLOT

CONTRACTORS NOTE

All dimensions shown must be verified by the customer named on the contract, who has sole responsibility for verifying and approving job requirements.

Quantities, lengths, items and dimensions not changed by the customer named on the contract will be assumed to be correct and acceptable.

Fabrication will not begin until all dimensions and quantities are verified, and until signed and approved shop drawings are received by Eaglespan Steel Structures, Inc.

____ Approved
____ Approved as Noted
____ Disapproved/Correct as Noted/Resubmit

Signed _____ Date _____

- BUILDER/CONTRACTOR RESPONSIBILITIES**
- 1) IT IS THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR TO ENSURE THAT ALL PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. THE SUPPLYING OF SEALED ENGINEERING DATA AND DRAWINGS FOR THE STEEL BRIDGE SYSTEM DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT THE BRIDGE MANUFACTURER OR ITS DESIGN ENGINEER IS ACTING AS THE ENGINEER OR DESIGN PROFESSIONAL FOR THE CONSTRUCTION PROJECT.
 - 2) THE CONTRACTOR MUST SECURE ALL REQUIRED APPROVALS AND PERMITS FROM THE APPROPRIATE AGENCY AS REQUIRED.
 - 3) WHERE DISCREPANCIES EXIST BETWEEN THE MANUFACTURER'S STRUCTURAL STEEL PLANS AND THE PLANS FOR OTHER TRADES, THE STRUCTURAL STEEL PLANS SHALL GOVERN. (SECT. 3.3, AISC CODE OF STANDARD PRACTICE, 9TH ED.) NOTIFY THE MANUFACTURER OF ALL DISCREPANCIES.
 - 4) PRODUCTS SHIPPED TO BUILDER OR HIS CUSTOMER SHALL BE INSPECTED WITHIN 12 HOURS UPON ARRIVAL.
 - 5) ALL BRACING AS SHOWN AND PROVIDED BY THE MANUFACTURER FOR THIS BRIDGE IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE.

- GENERAL NOTES**
- 1) THE STRUCTURE UNDER THIS CONTRACT HAS BEEN DESIGNED AND DETAILED FOR THE LOADS AND CONDITIONS STIPULATED IN THE CONTRACT AND SHOWN ON THESE DRAWINGS. ANY ALTERATIONS TO THE STRUCTURAL SYSTEM OR REMOVAL OF ANY COMPONENT PARTS, OR THE ADDITION OF OTHER CONSTRUCTION MATERIALS OR LOADS MUST BE DONE UNDER THE ADVICE OF A REGISTERED STRUCTURAL ENGINEER. THE BRIDGE MANUFACTURER ASSUMES NO RESPONSIBILITY FOR ANY LOADS NOT INDICATED.
 - 2) STRUCTURAL BOLTS ARE A490. ANCHOR BOLTS ARE A1554.
 - 3) DRAWINGS MAY NOT BE TO SCALE. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
 - 4) MATERIAL PROPERTIES OF STEEL PLATES, TUBING, AND FOLDED WEBS USED IN FABRICATION OF PRIMARY RIGID FRAMES AND ALL PRIMARY STRUCTURAL FRAMING MEMBERS (OTHER THAN COLD-FORMED MEMBERS) CONFORM TO ASTM-A36, ASTM-A992, ASTM-A500, GR60 AND ASTM-510, GR55.
 - 5) ALL HIGH STRENGTH BOLTS SHALL BE INSTALLED USING THE "TURN OF THE NUT" METHOD SPECIFIED IN THE NINTH EDITION OF AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". IT IS THE RESPONSIBILITY OF THE ERECTOR TO ENSURE PROPER TIGHTNESS.
 - 6) ALL WELDS SHALL BE E70 KSI ELECTRODES UNLESS OTHERWISE NOTED. ALL WELDING & GAS CUTTING SHALL BE IN ACCORDANCE WITH CURRENT STANDARDS OF THE AMERICAN WELDING SOCIETY AND PERFORMED BY CERTIFIED WELDERS.
 - 7) STRUCTURAL COMPONENTS SHALL MEET AASHTO H10 VEHICLE AND SSPFC PEDESTRIAN LIVE LOADS AS SHOWN ON THE CONTRACT DOCUMENTS.
 - 8) DO NOT APPLY ANY DUST PROHIBITING OR DE-ICING CHEMICALS OR SALTING AGENTS TO ANY SURFACE OF THIS BRIDGE.

- BRIDGE CLEANING & PAINTING NOTES**
- 1) ALL SURFACES OF BRIDGE SHALL BE CLEANED IN ACCORDANCE WITH SSPFC-SP10 TO REMOVE GREASE, OIL, DUST, MILL SCALE, OXIDATION, AND OTHER CONTAMINANTS BEFORE PRIMER AND PAINT IS APPLIED.
 - 2) EXTERIOR BRIDGE PAINT SHALL MEET VERMONT AGENCY OF TRANSPORTATION 2004 QUALIFIED PRODUCTS LIST FOR PROTECTIVE COATINGS FOR NEW-AND 100% BARE EXISTING STEEL FOR BRIDGES. PAINT SHALL CONFORM TO NEPCOAT REQUIREMENTS FOR NEW STEEL BRIDGES.
 - 3) PAINT COLOR TO BE BLACK.
PRIMER = SHERWIN WILLIAMS 3 PART SYSTEM.
MIDCOAT = MACROPOXY 646
TOP COAT = ACRYLON 218 ACRYLIC
 - 4) ALL PAINT APPLICATIONS TO BE DONE WITH AIR ASSISTED AIRLESS PORTABLE PUMP -HVLP- PAINT SYSTEM.
 - 5) SEE PAINT MANUFACTURER'S SPECIFICATIONS FOR MAINTENANCE AND CLEANING OF FINISHED PRODUCT.

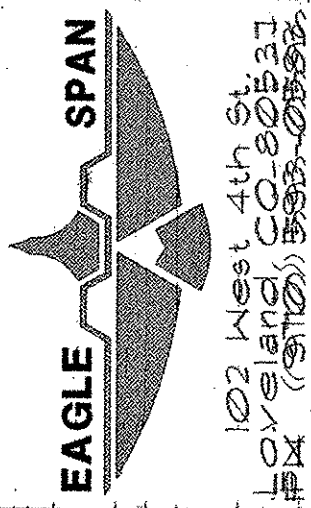
- APPROVAL NOTES**
- 1) APPROVAL OF THESE DRAWINGS INDICATES CONCLUSIVELY THAT THE MANUFACTURER HAS CORRECTLY INTERPRETED THE CONTRACT REQUIREMENTS, AND FURTHER CONSTITUTES AGREEMENT THAT THE BRIDGE AS DRAWN, OR AS DRAWN WITH INDICATED CHANGES REPRESENTS THE TOTALITY OF THE MATERIALS TO BE SUPPLIED BY THE MANUFACTURER.
 - 2) IT IS IMPERATIVE THAT ANY CHANGES TO THESE DRAWINGS BE MADE IN CONTRASTING INK, BE LEGIBLE AND UNAMBIGUOUS AND HAVE ALL INSTANCES OF CHANGE CLEARLY INDICATED.
 - 3) ANY CHANGES NOTED ON THE DRAWINGS NOT IN CONFORMANCE WITH THE TERMS AND REQUIREMENTS OF THE CONTRACT BETWEEN MANUFACTURER AND ITS CUSTOMER ARE NOT BINDING ON MANUFACTURER UNLESS SUBSEQUENTLY SPECIFICALLY ACKNOWLEDGED AND AGREED TO IN WRITING BY CHANGE ORDER OR SEPARATE DOCUMENTATION.

- SAFETY COMMITMENT**
- 1) THE BRIDGE MANUFACTURER HAS A COMMITMENT TO MANUFACTURE QUALITY COMPONENTS THAT CAN BE SAFELY ERECTED. HOWEVER, THE SAFETY, COMMITMENT AND JOBSITE PRACTICES OF THE ERECTOR ARE BEYOND THE CONTROL OF THE BRIDGE MANUFACTURER. IT IS STRONGLY RECOMMENDED THAT SAFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES BE THE TOP PRIORITY OF ANY JOB SITE.

- FOUNDATION NOTES**
- 1) EAGLESPAN STEEL STRUCTURES, INC. IS NOT RESPONSIBLE FOR THE FOUNDATION OR THE DESIGN OF THE FOUNDATION UNLESS SPECIFICALLY STATED ON THE CONTRACT.
 - 2) ANCHOR BOLTS ARE NOT PROVIDED BY EAGLESPAN. ALL ANCHOR BOLTS SHALL BE ASTM A307 UNLESS NOTED OTHERWISE.
 - 3) ANCHOR BOLTS MUST BE SET FROM STAMPED ENGINEERED FOUNDATION BY OTHER.
 - 4) THE PROJECT CONCRETE CONTRACTOR IS RESPONSIBLE FOR ANCHOR BOLT SETTING AND MAINTAINING A SQUARE AND LEVEL CONCRETE BEARING SURFACE.

** BRATTLEBORO STP BIKE(27)S

FINAL AS-MANUFACTURED DRAWINGS FOR PED. BRIDGE



WHITCOMB CONSTR.
WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
BRATTLEBORO, VT

DATE	REV.	REVISIONS
1/8/04	0	FOR OWNER APPROVAL
1/27/04	1	CUSTOMER CHANGES
3/3/04	2	RE-SUBMITTAL
10/12/04	3	RE-SUBMITTAL
1/7/05	B	AS MANUFACTURED

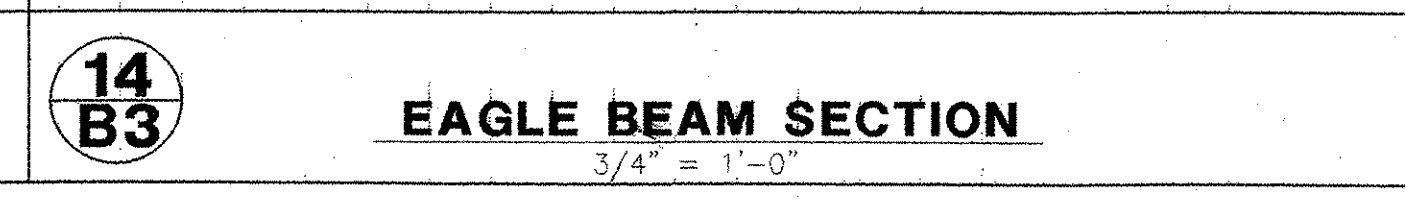
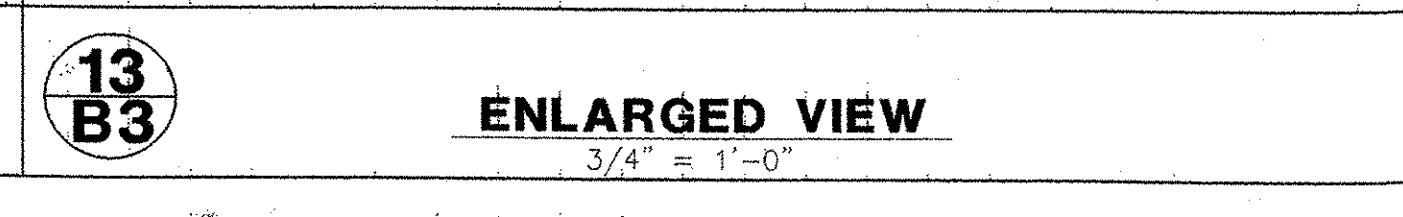
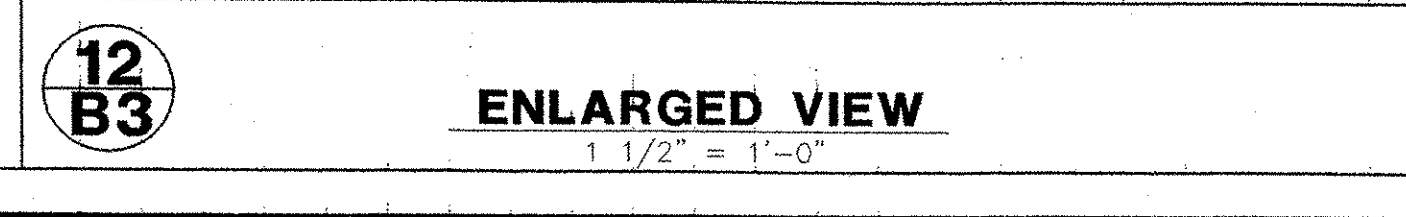
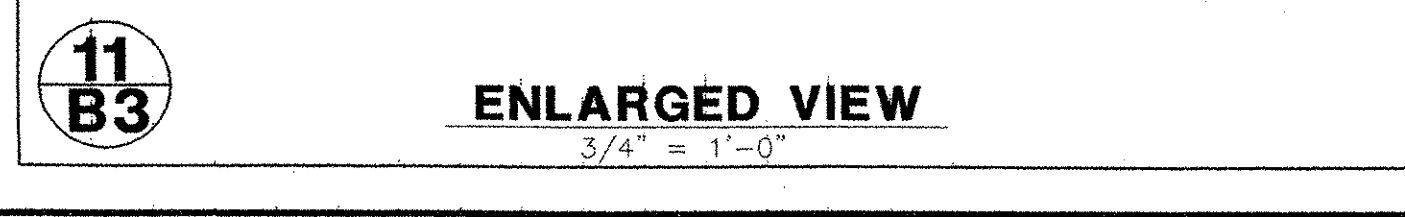
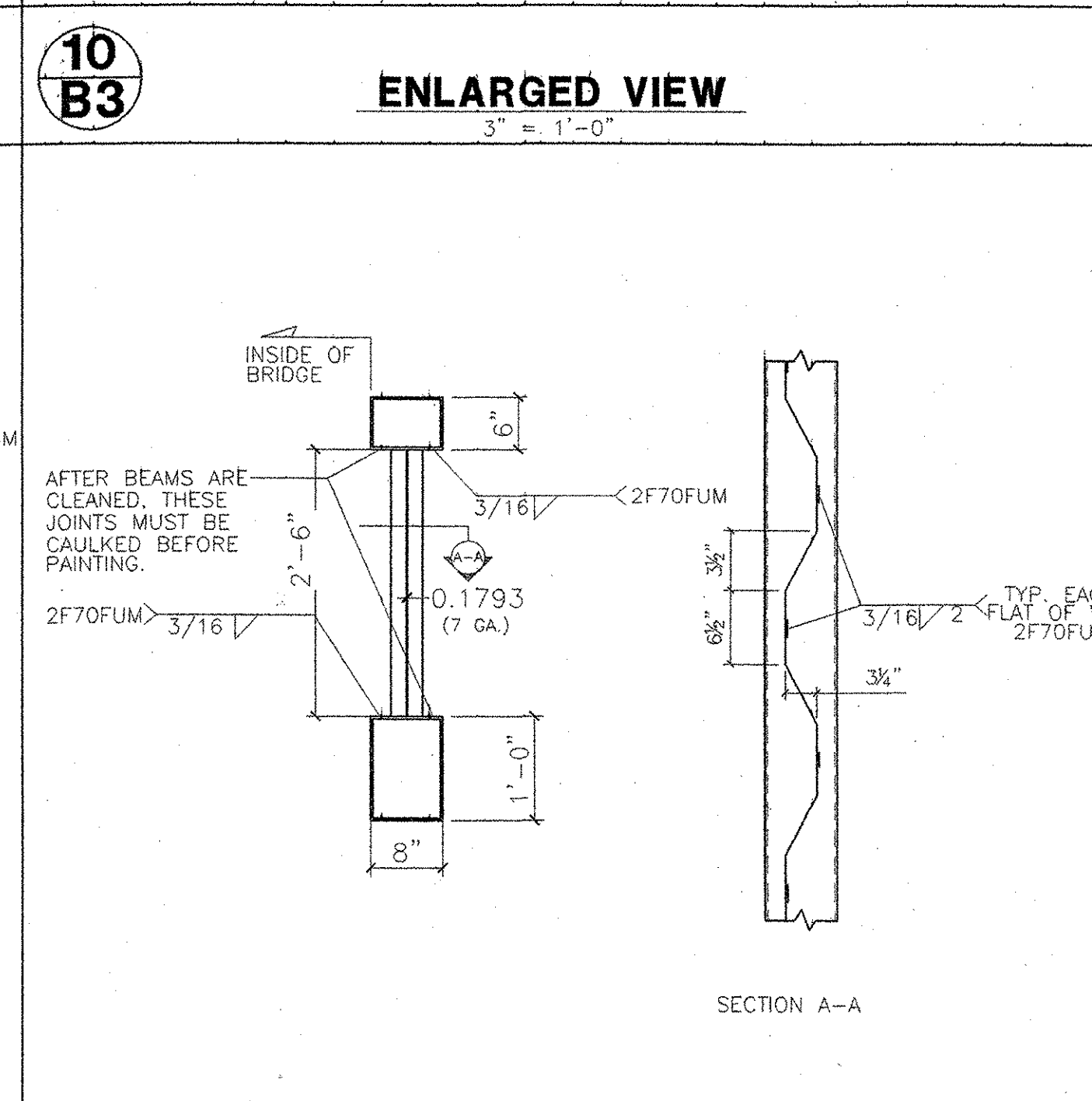
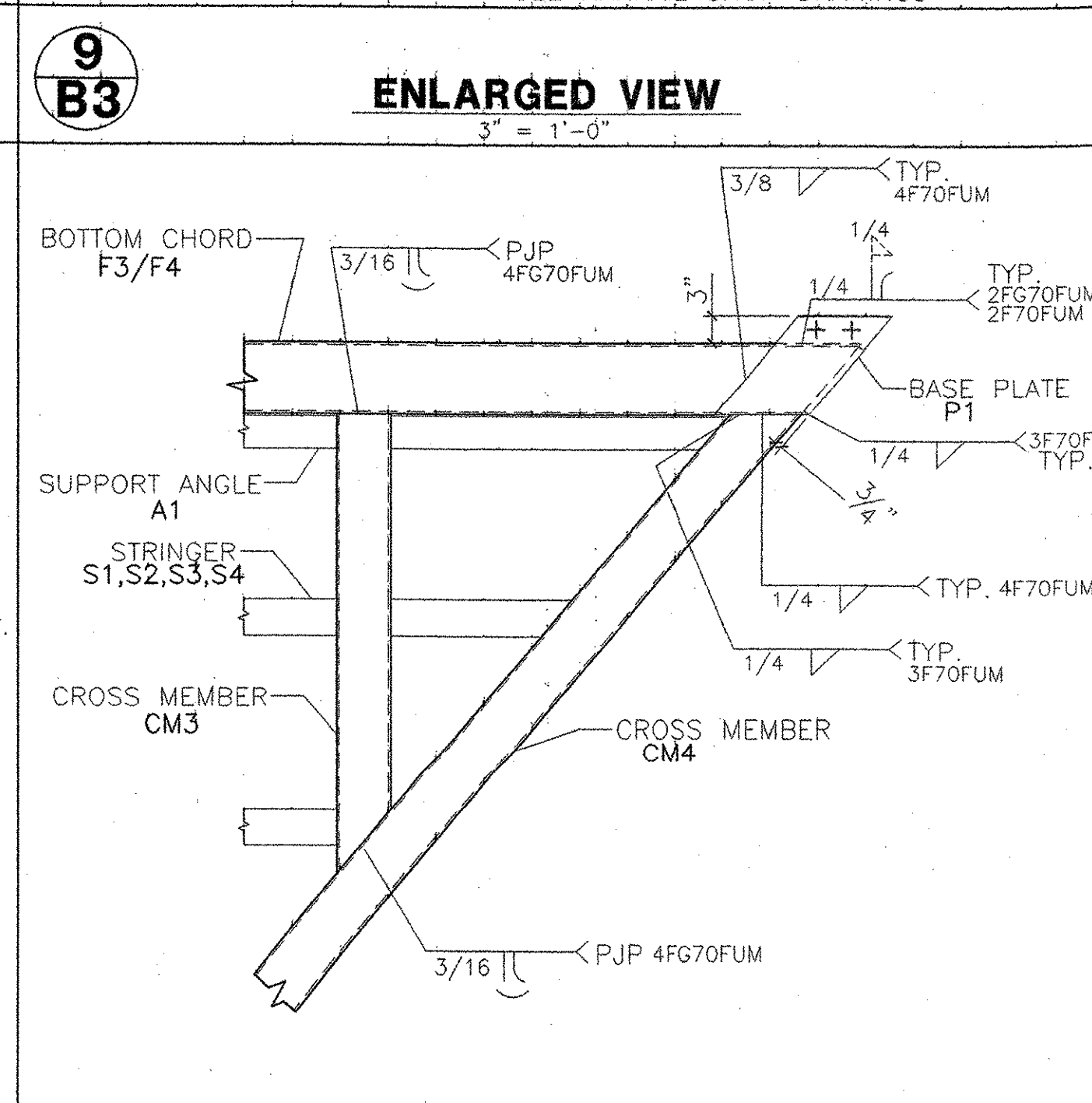
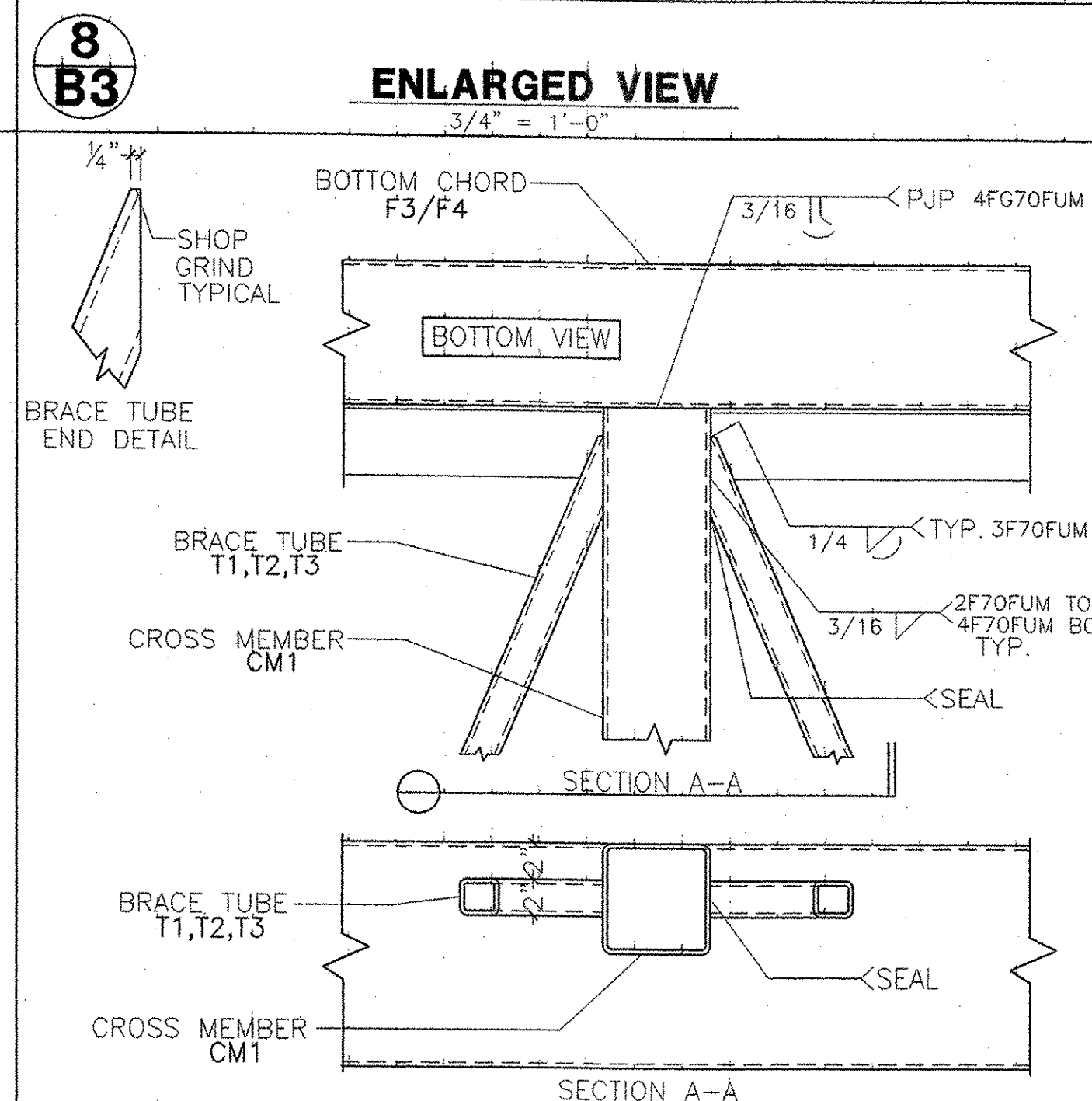
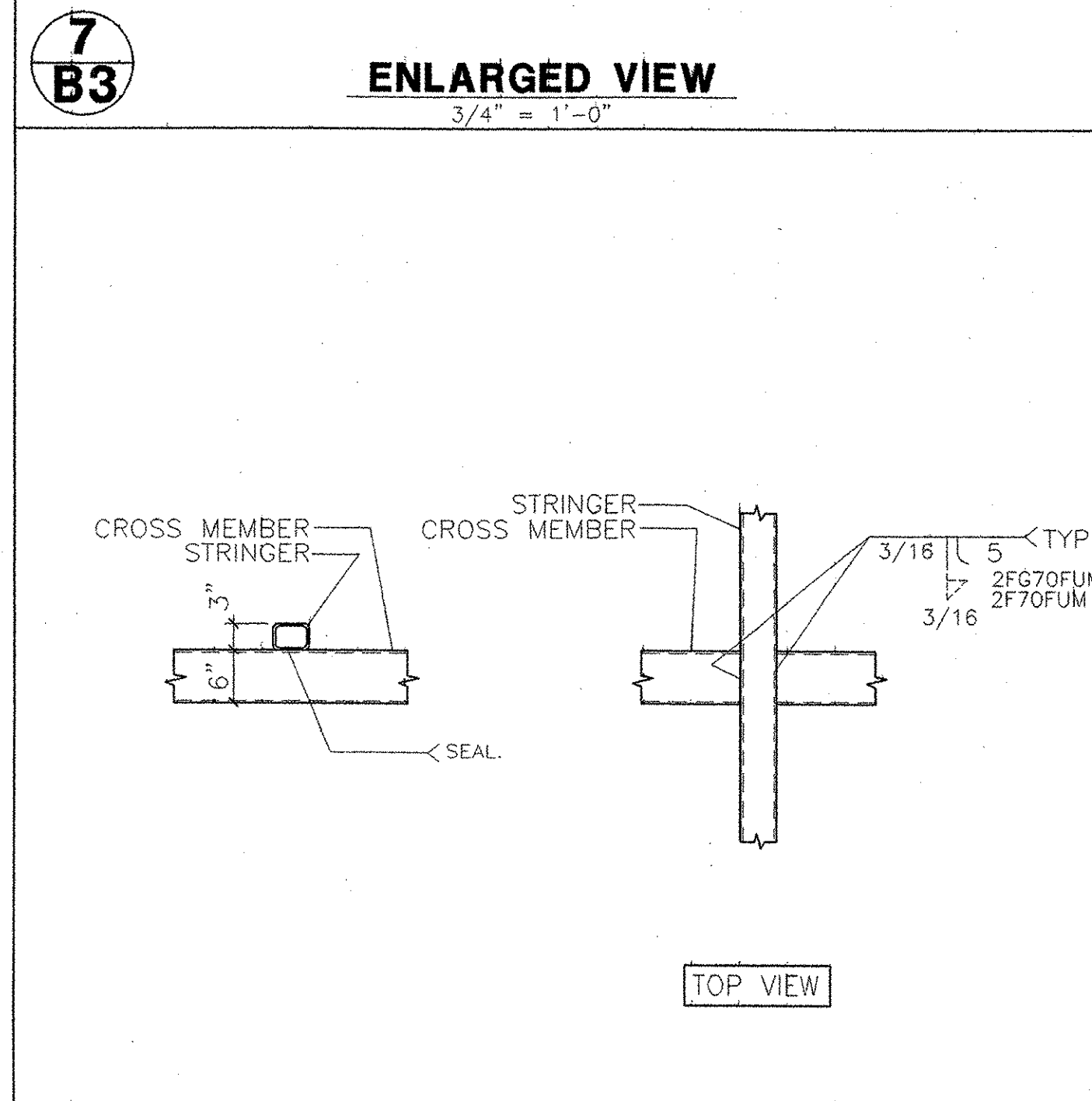
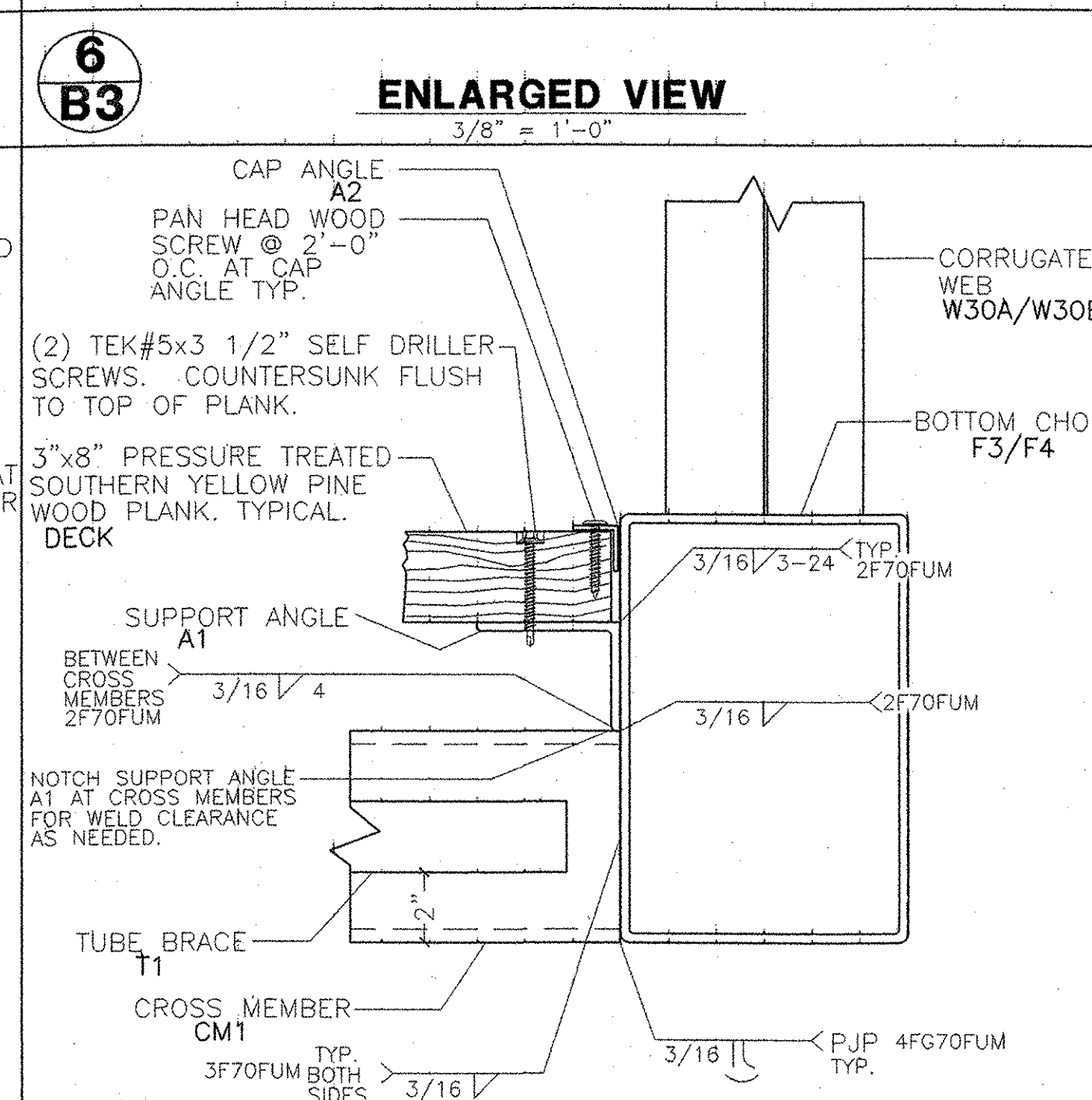
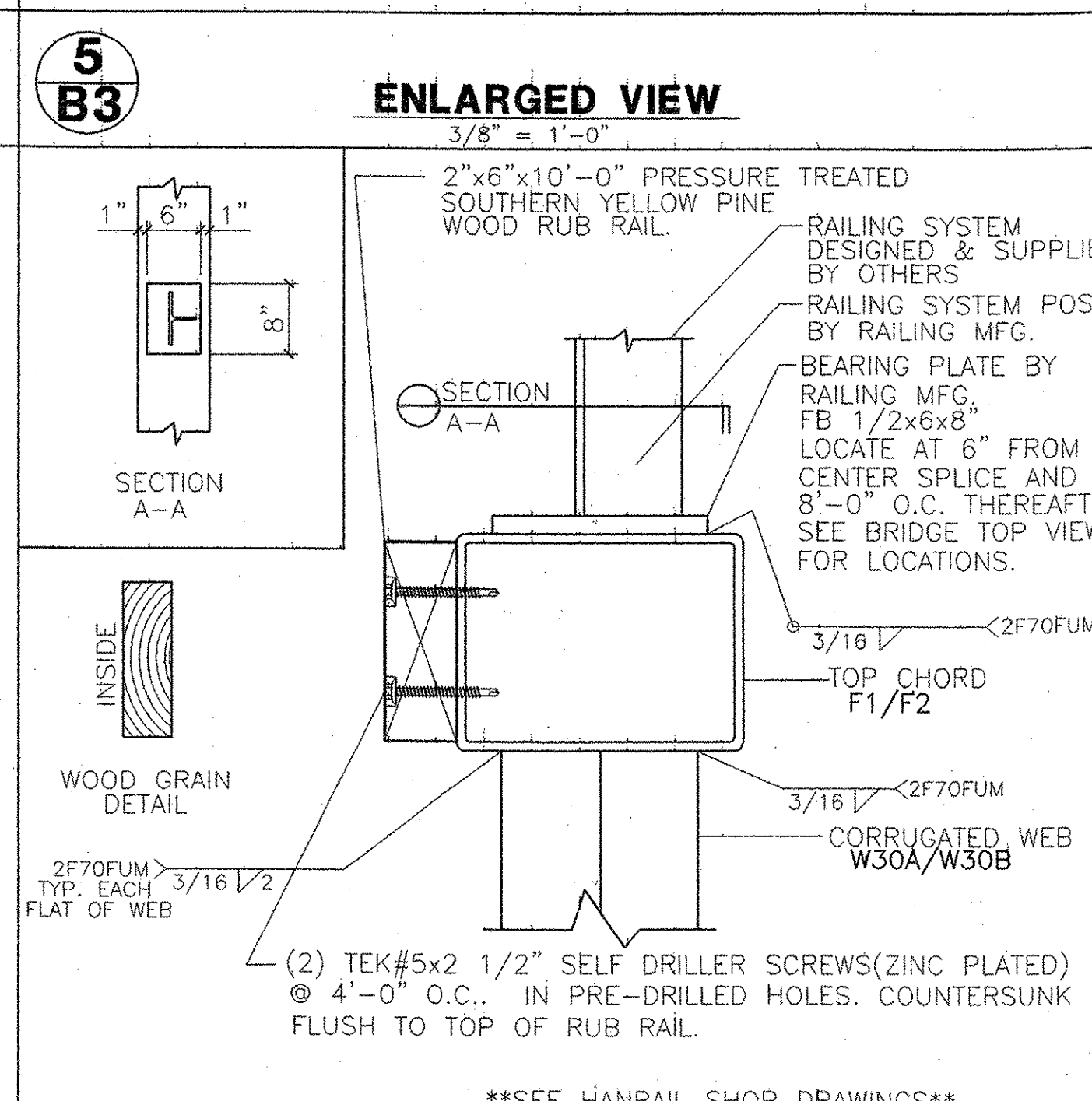
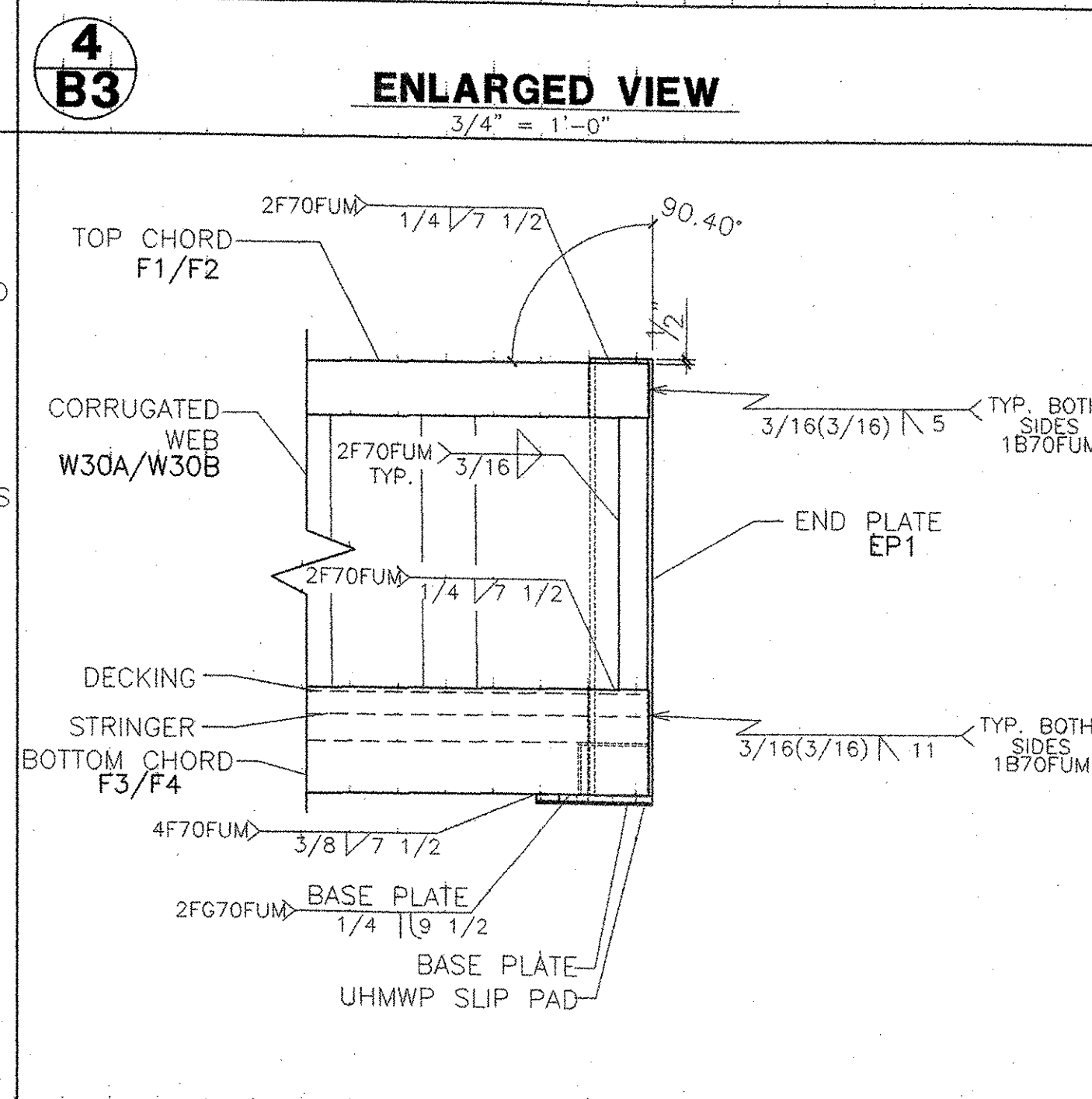
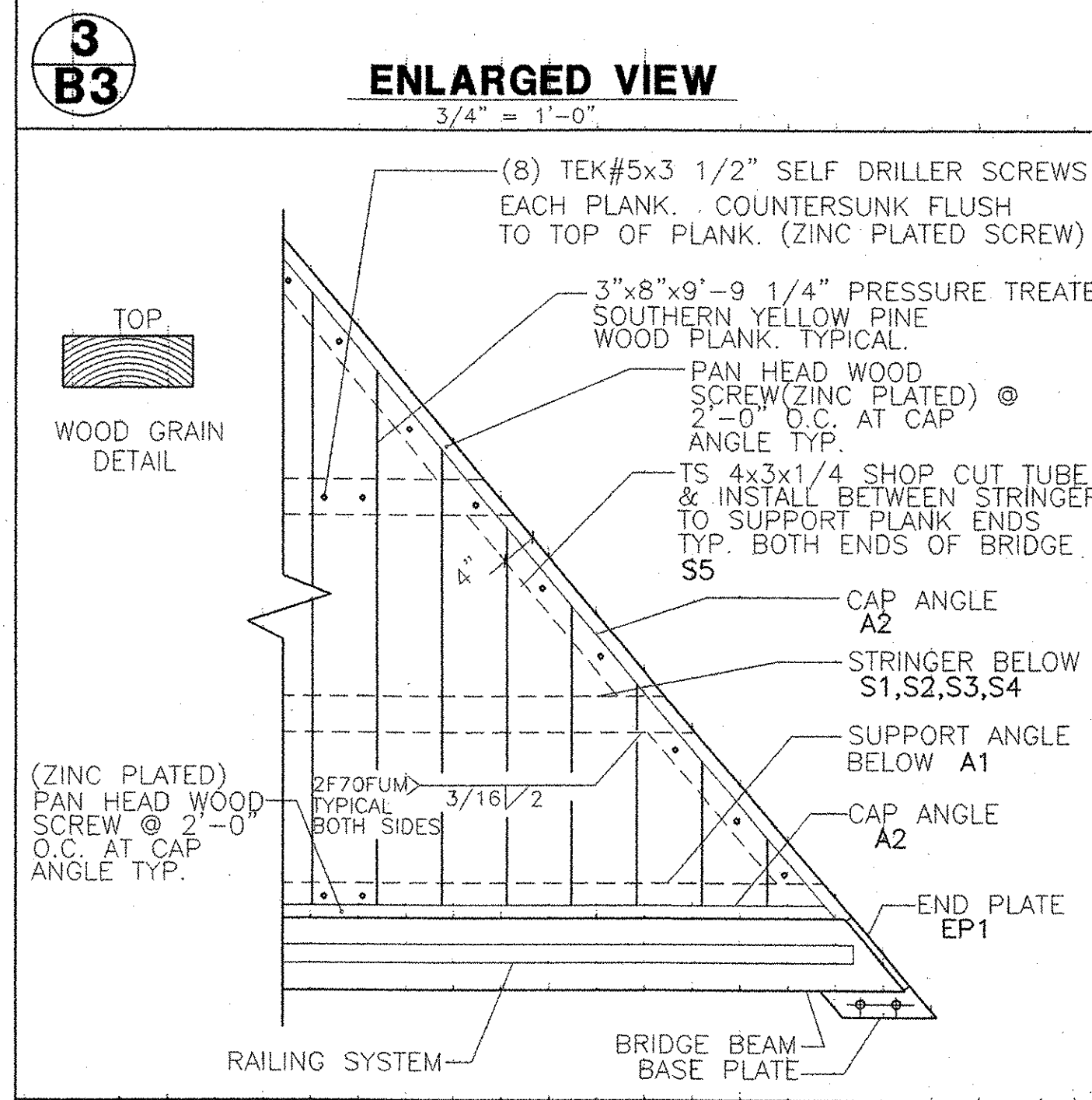
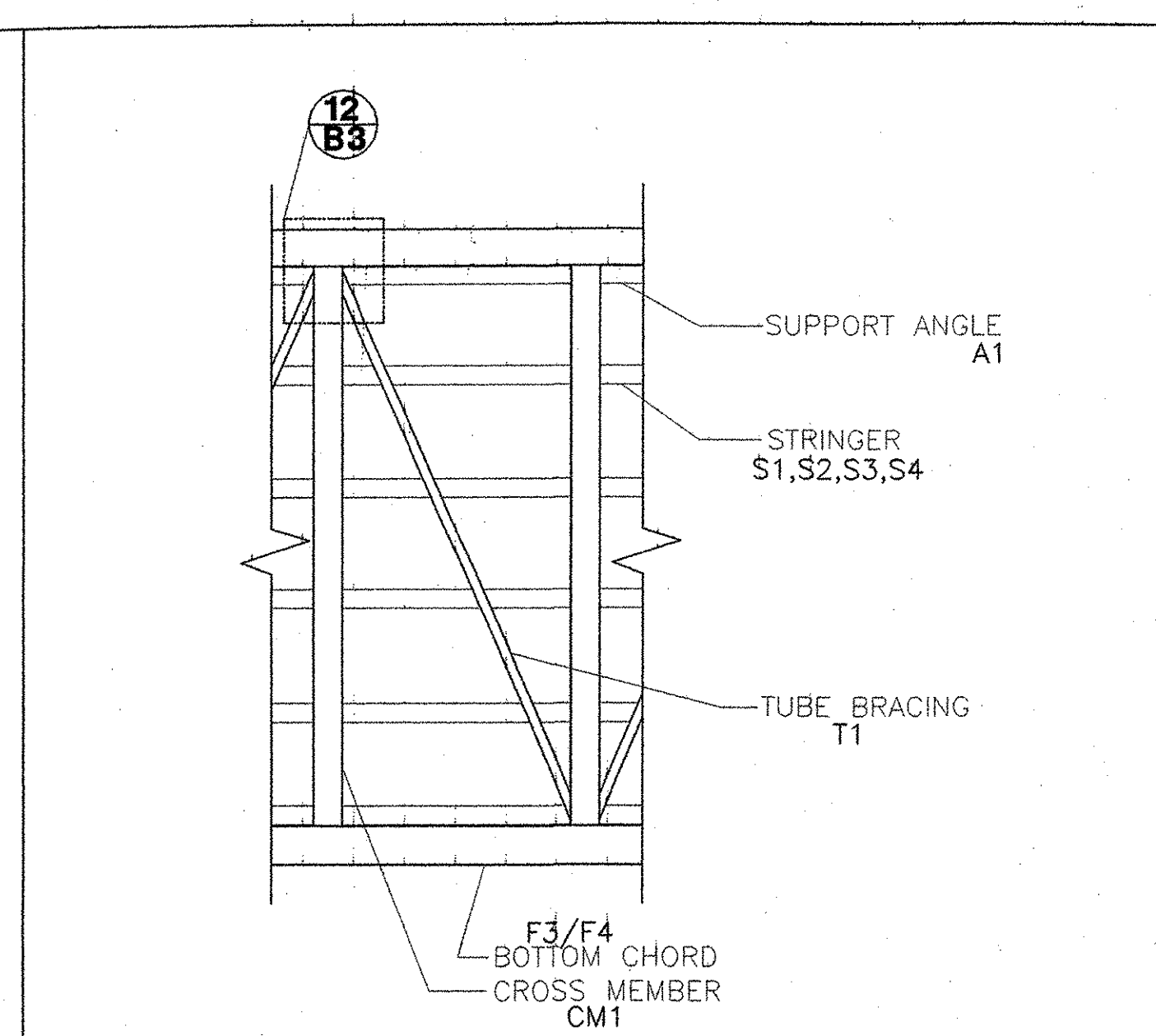
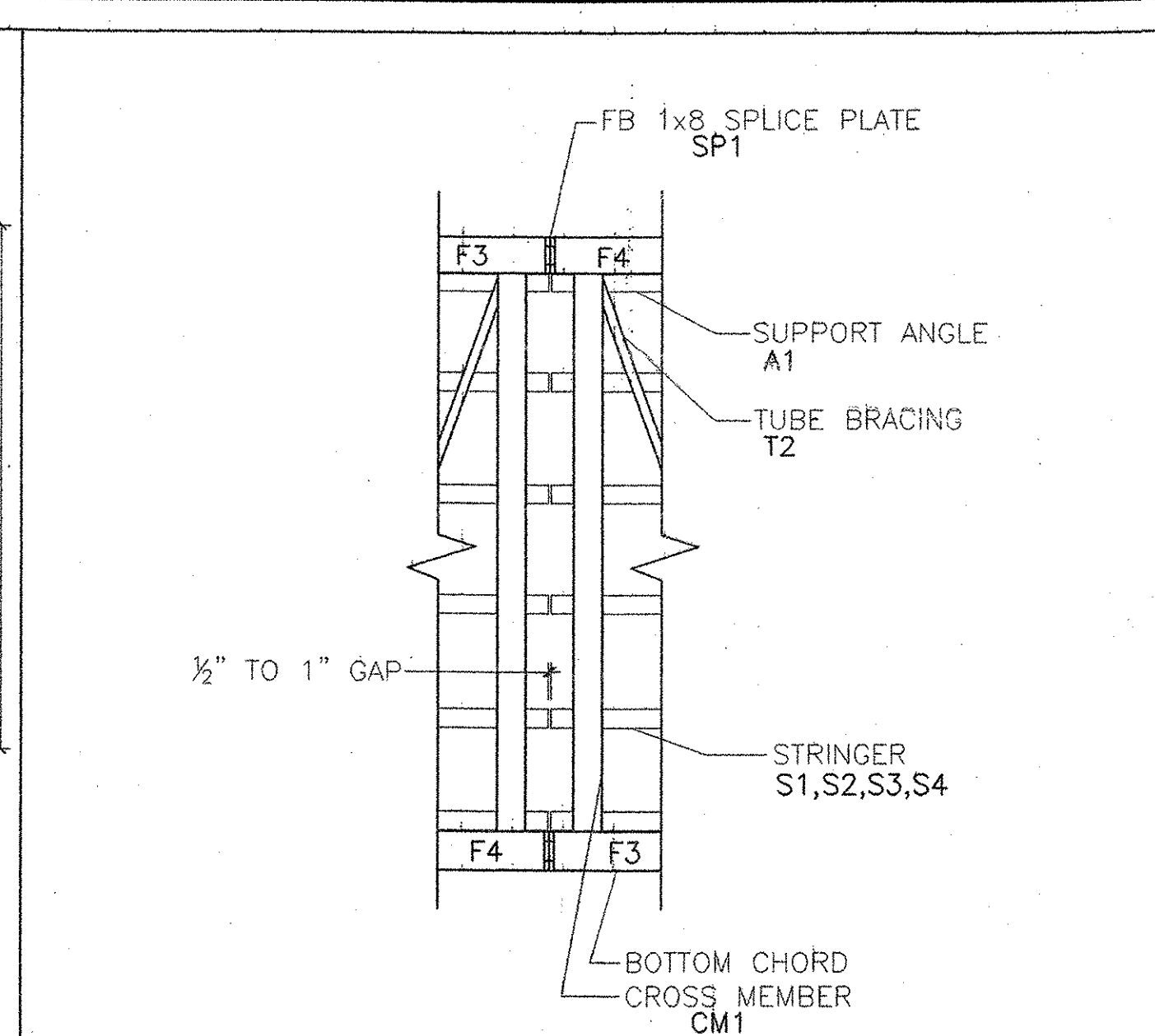
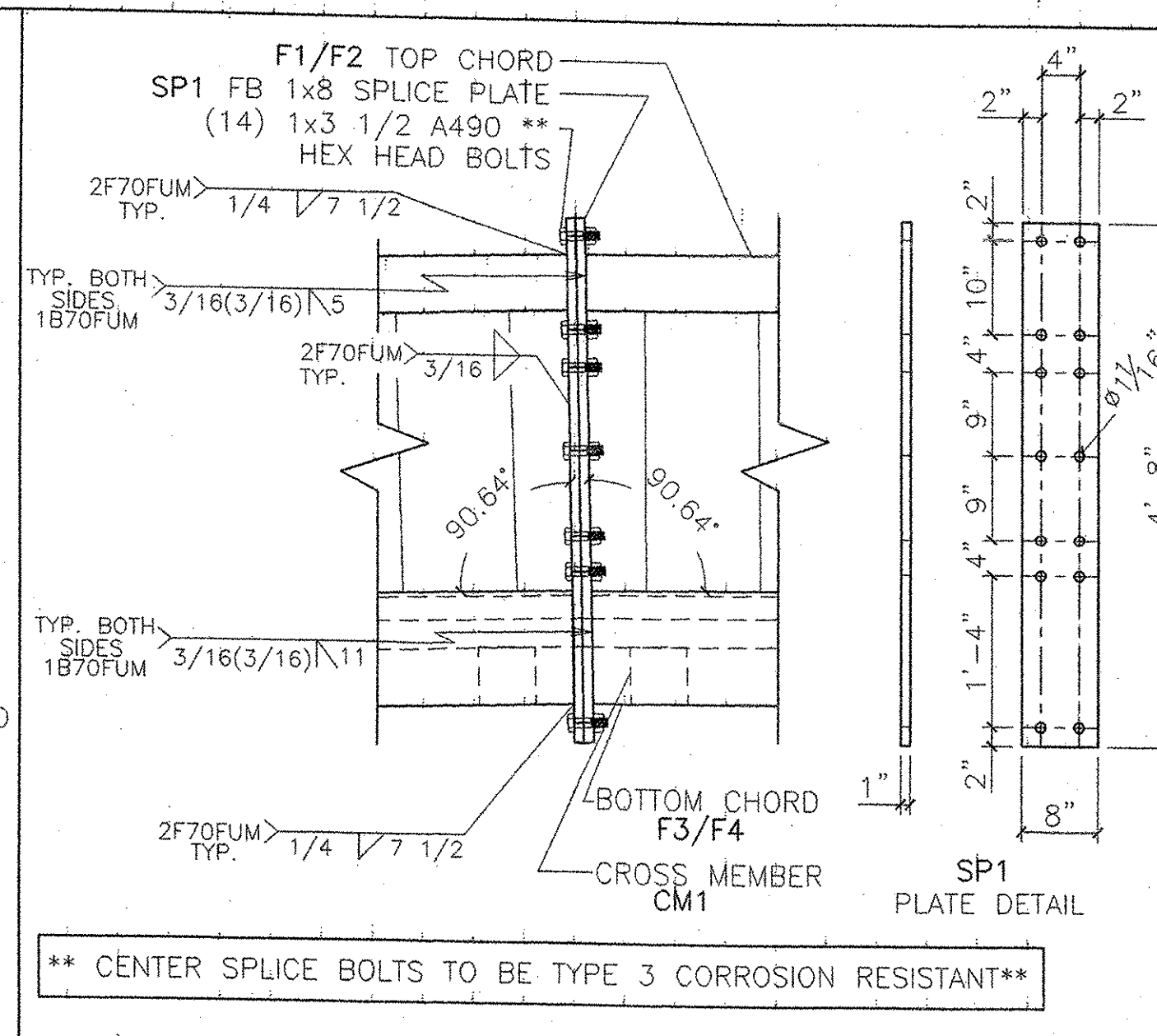
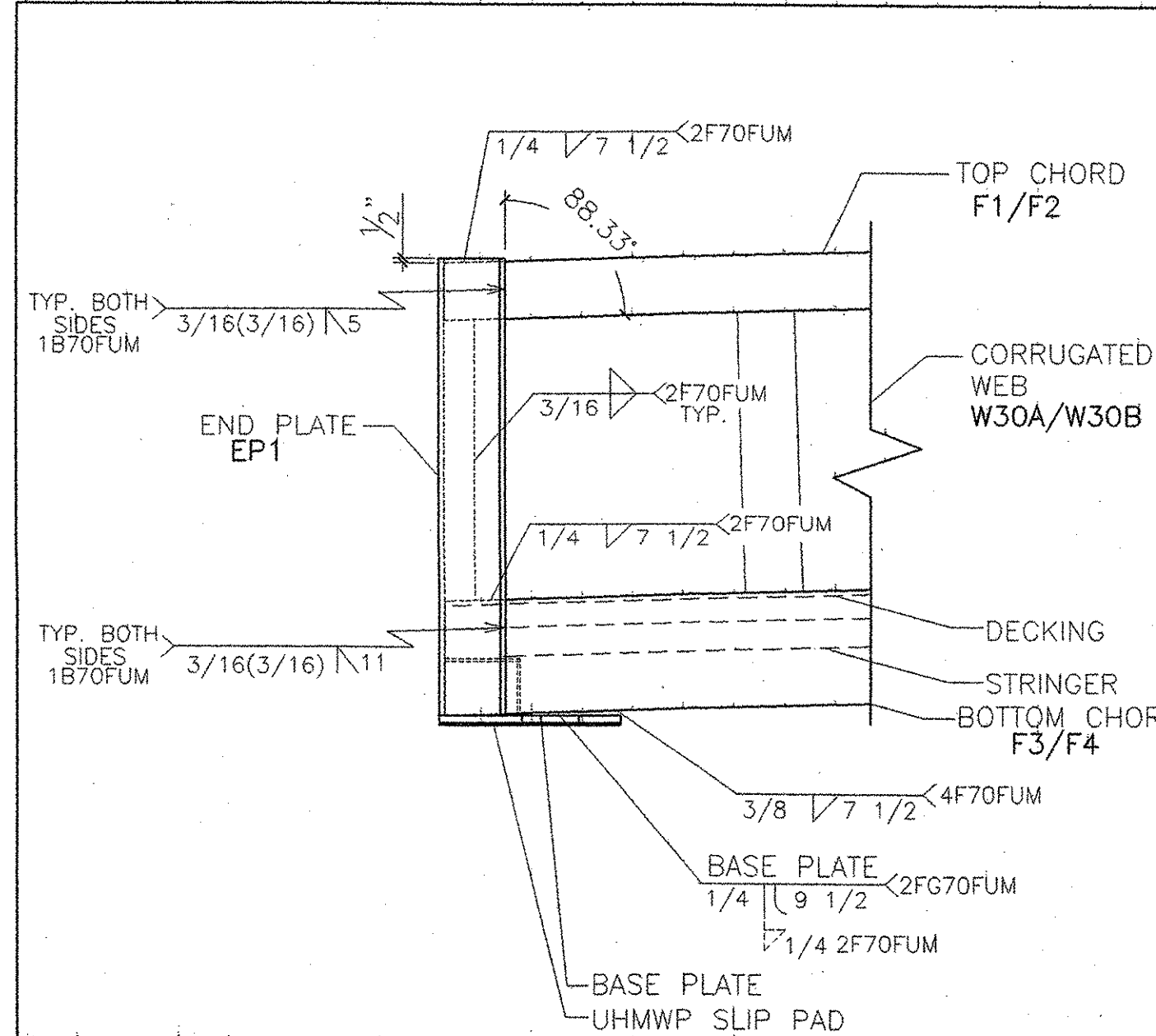
BIG R
MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO 80639
TEL: (970) 358-8800
FAX: (970) 358-8800

DRAWN: MDG
DATE: 1/7/04
CHECKED: SFP
DATE: 1/8/04
APPROVED: SFP

REV. 5

PROJECT NO. 24-775E

SHEET NO. C1



WHITCOMB CONSTR.

WHEATSTONE BROOK PATH

PEDESTRIAN BRIDGE

102 West 1st St. #200
Lexington, MA 01846
Tel: (508) 555-0888

REVISIONS	
DATE	REV
1/18/04	0
1/27/04	1
9/3/04	2
10/12/04	3
1/17/05	4
2/17/05	5

BIG R

MANUFACTURING, LLC

PO BOX 1290

GREELEY, COLORADO

PR: (970) 356 9600

FX: (970) 356 9841

DRAWN: MDS

DATE: 1/1/04

CHECKED: SFP

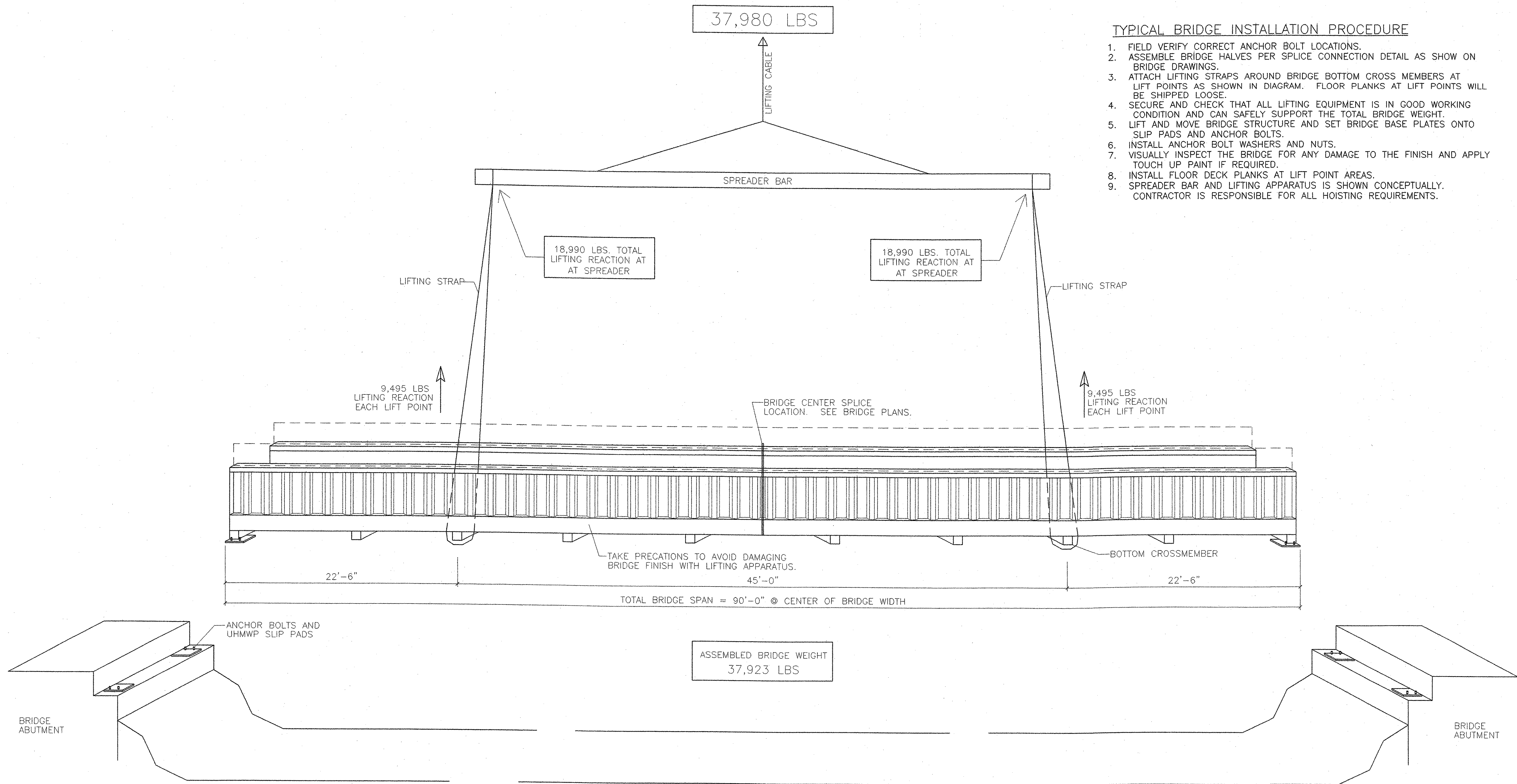
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APPROVED: SFP

REV: 5

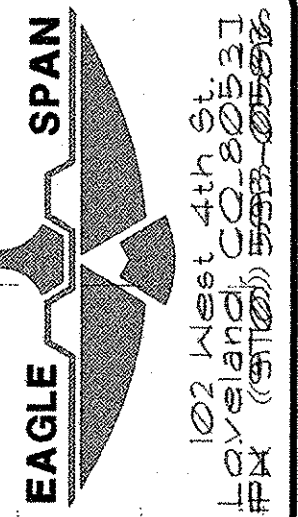
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SHEET NO: E3



TYPICAL BRIDGE INSTALLATION PROCEDURE

1. FIELD VERIFY CORRECT ANCHOR BOLT LOCATIONS.
2. ASSEMBLE BRIDGE HALVES PER SPLICE CONNECTION DETAIL AS SHOWN ON BRIDGE DRAWINGS.
3. ATTACH LIFTING STRAPS AROUND BRIDGE BOTTOM CROSS MEMBERS AT LIFT POINTS AS SHOWN IN DIAGRAM. FLOOR PLANKS AT LIFT POINTS WILL BE SHIPPED LOOSE.
4. SECURE AND CHECK THAT ALL LIFTING EQUIPMENT IS IN GOOD WORKING CONDITION AND CAN SAFELY SUPPORT THE TOTAL BRIDGE WEIGHT.
5. LIFT AND MOVE BRIDGE STRUCTURE AND SET BRIDGE BASE PLATES ONTO SLIP PADS AND ANCHOR BOLTS.
6. INSTALL ANCHOR BOLT WASHERS AND NUTS.
7. VISUALLY INSPECT THE BRIDGE FOR ANY DAMAGE TO THE FINISH AND APPLY TOUCH UP PAINT IF REQUIRED.
8. INSTALL FLOOR DECK PLANKS AT LIFT POINT AREAS.
9. SPREADER BAR AND LIFTING APPARATUS IS SHOWN CONCEPTUALLY. CONTRACTOR IS RESPONSIBLE FOR ALL HOISTING REQUIREMENTS.



WHITCOMB CONSTR.
WHETSTONE BROOK PATH
PEDESTRIAN BRIDGE
BEDFORD, VT

REVISIONS
INSTALLATION INSTRUCTIONS

REV. 0
DATE 2/8/05

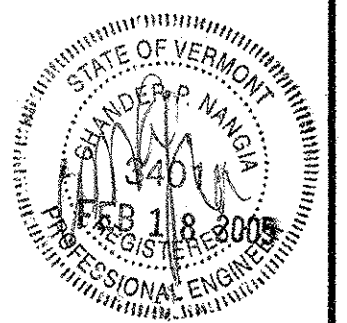
BIG R
MANUFACTURING, LLC
PO BOX 1290
GREELEY, COLORADO
PH: (970) 356 9600
FX: (970) 356 9601
FAX: (970) 356 9602

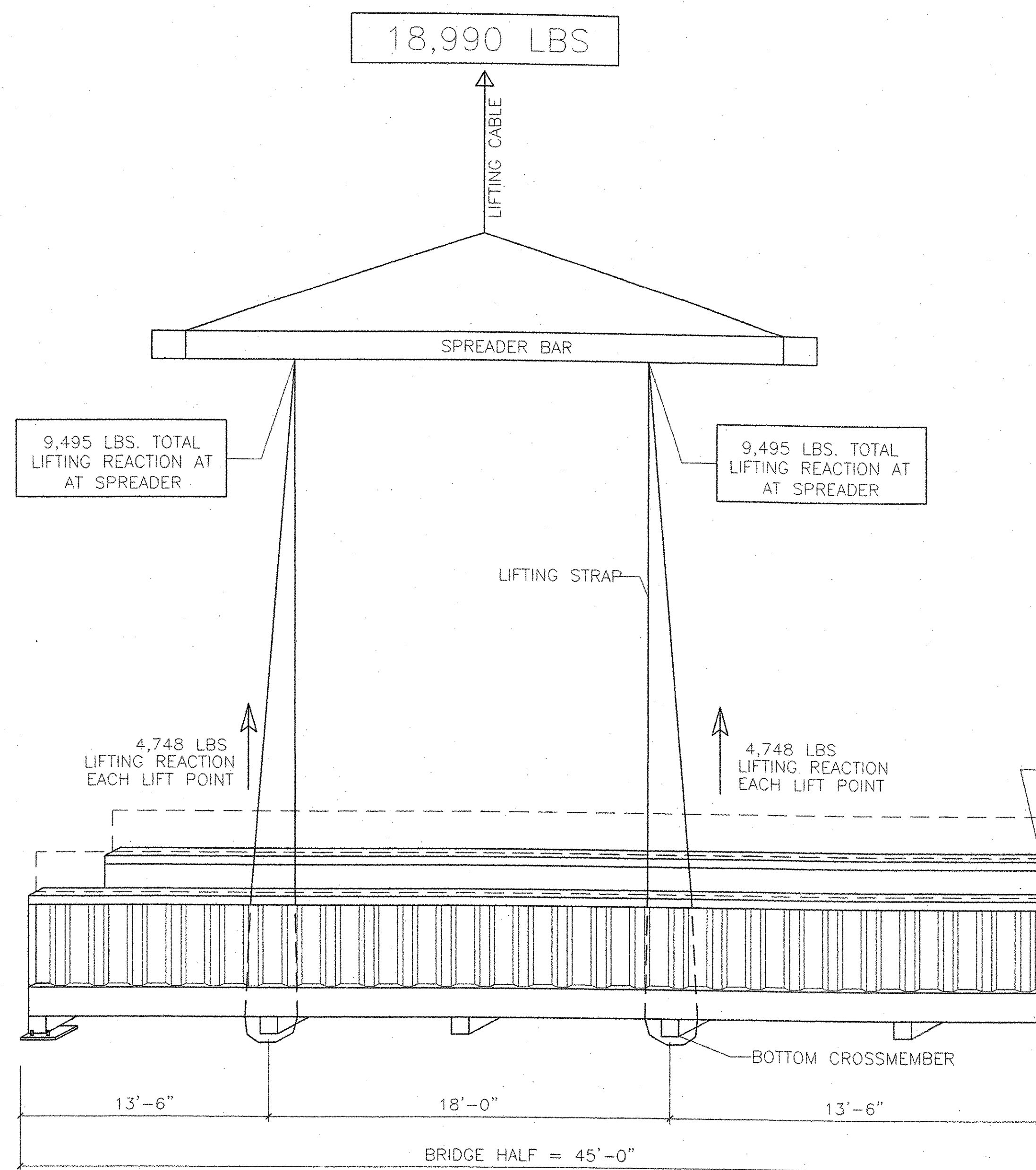
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DATE: 1/14/05
APPROVED: SFP

REV. 0

PROJECT NO.
24-1152

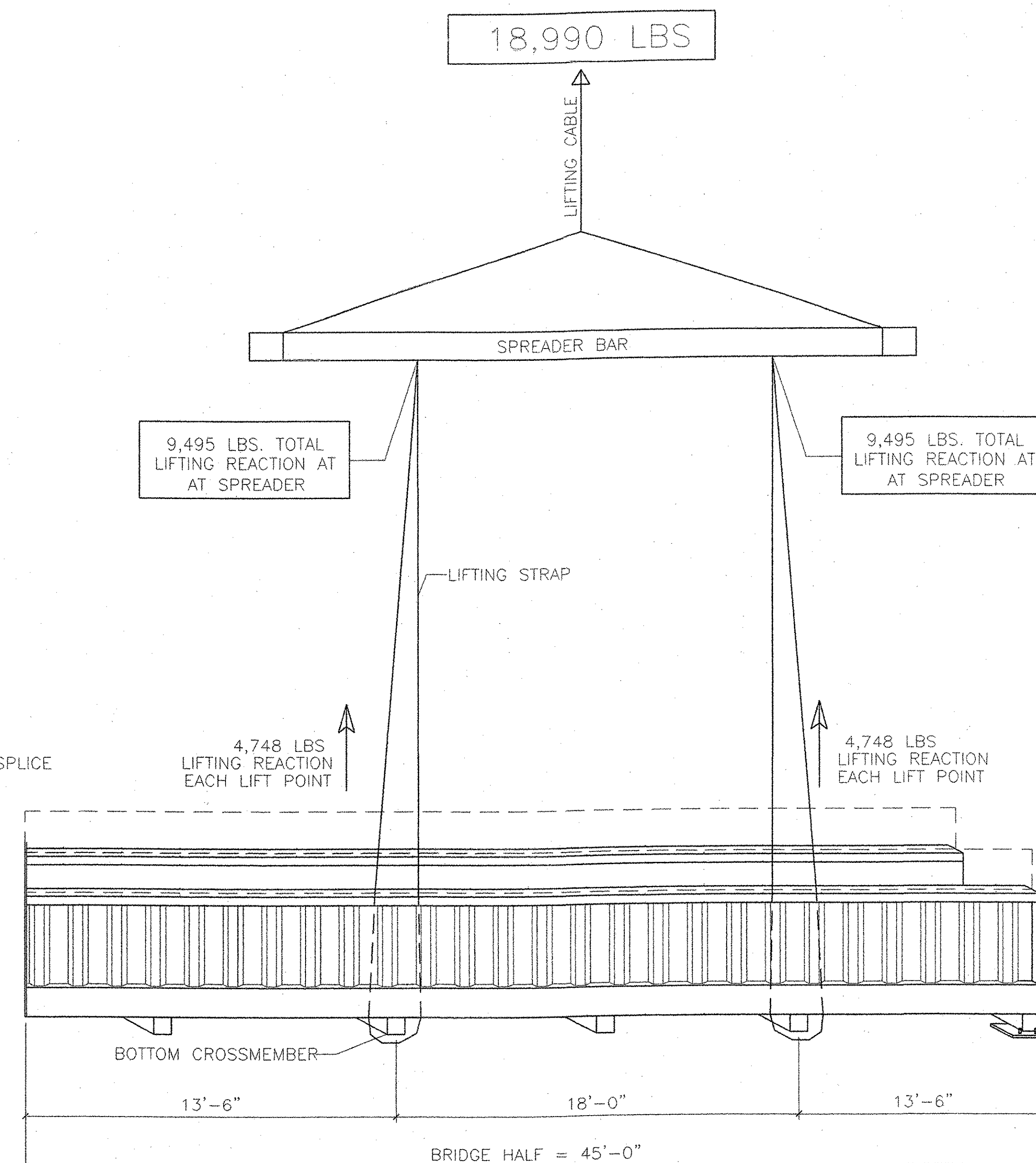
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INST 1





TAKE PRECAUTIONS TO AVOID DAMAGING
BRIDGE FINISH WITH LIFTING APPARATUS.

HALF SECTION BRIDGE WEIGHT	18,962 LBS
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TYPICAL BRIDGE INSTALLATION PROCEDURE

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DATE	REV.	REVISIONS
2/20/05	0	INSTALLATION INSTRUCTIONS
	1	
	2	
	3	
	4	

DRAWN: MDS
DATE: 1/14/05
CHECKED: SFF
DATE: 1/14/05
APPROVED: SFF

REV. 0