INDEX OF SHEETS
SEE SHEET 2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

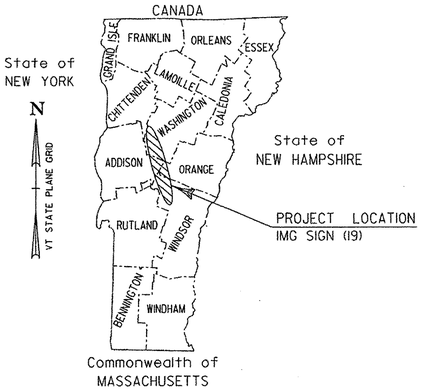
PROPOSED IMPROVEMENT
TOWNS OF ROYALTON, BETHEL, RANDOLPH, BROOKFIELD, WILLIAMSTOWN, BERLIN, MONTPELIER & MIDDLESEX
COUNTIES OF WINDSOR, ORANGE & WASHINGTON

VERMONT INTERSTATE ROUTE 89

BEGINNING AT THE ROYALTON EXIT 3 INTERCHANGE ON INTERSTATE 89 AT MILE MARKER 22.000 AND EXTENDING NORTHERLY FOR BOTH THE NORTHBOUND AND SOUTHBOUND LANES A DISTANCE OF 38.880 MILES AND ENDING AT THE MIDDLESEX-WATERBURY TOWN LINE AT MILE MARKER 60.880.

LENGTH OF ROADWAY = 38.880 MILES
LENGTH OF PROJECT = 38.880 MILES

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE REMOVAL OF EXISTING SIGNS AND POSTS AND THE INSTALLATION OF NEW SIGNS AND SIGN POSTS AND ASSOCIATED ELEMENTS ALONG THE PROJECT LENGTH, RAMPS, INTERCHANGES AND INCIDENTAL ITEMS.



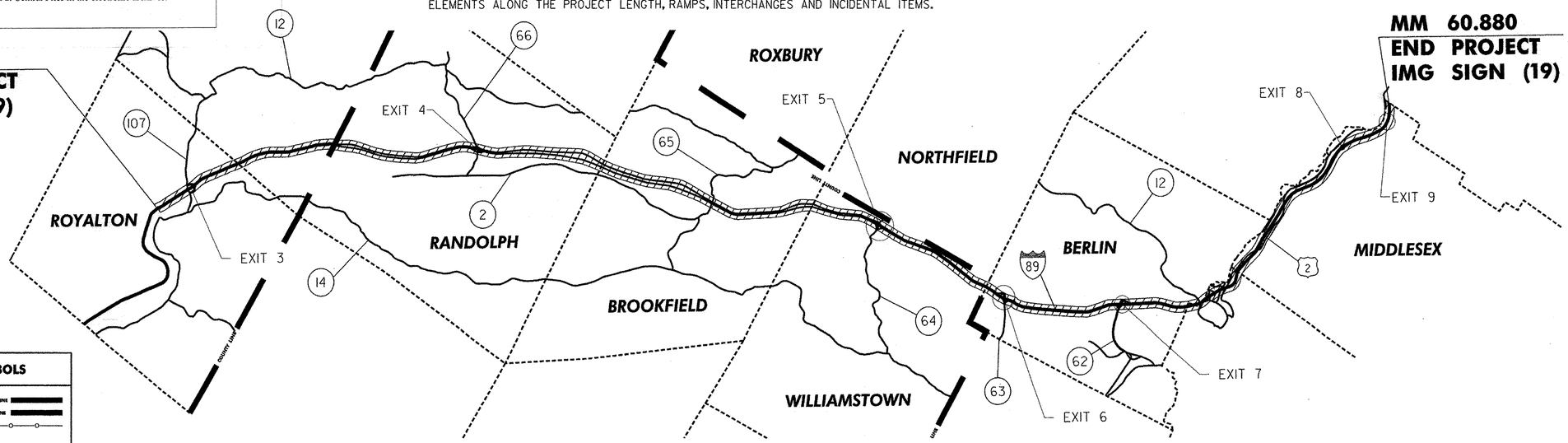
RECORD PLANS

CONTRACTOR: CCS CONSTRUCTORS LLC– MORRISVILLE, VT
RESIDENT ENGINEER: AL JONES
CONSTRUCTION BEGAN: APRIL 6, 2010
CONSTRUCTION COMPLETE: MAY 23, 2011
RECORD PLANS BY: AL JONES & JENNA HYDE

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

BY _____ RESIDENT ENGINEER
DATE 3/29/13

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



CONVENTIONAL SYMBOLS

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

SURVEYED BY : N/A
SURVEYED DATE : N/A

DATUM
VERTICAL N/A
HORIZONTAL N/A

CONSULTING ENGINEERS Inc.
540 Commercial Street Manchester, NH 03101
(603) 668-8223 • Fax: (603) 668-8802
email: cid@cidengineers.com • www.cidengineers.com
Maine • New Hampshire • Vermont

STATE OF VERMONT CHRISTOPHER R. BEAM No. 5529 REGISTERED PROFESSIONAL ENGINEER

2 0 2
SCALE IN MILES

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

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

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED _____ DATE 8-19-09

PROJECT MANAGER : AMY GAMBLE

PROJECT NAME : ROYALTON - MIDDLESEX
PROJECT NUMBER : IMG SIGN (19)

SHEET 1 OF 163 SHEETS

MODEL: Cover z09a020cov.dgn

STATE OF VERMONT
AGENCY OF TRANSPORTATION

INDEX OF SHEETS

INDEX OF STANDARD PLANS

STD	DATE	DESCRIPTION
E-100	1/2/2004	CONSTRUCTION APPROACH SIGNS
E-100A	1/2/2004	SIDE ROAD CONSTRUCTION APPROACH SIGNS
E-101	5/30/2003	CONSTRUCTION SIGN DETAILS
E-102	6/30/2003	CONSTRUCTION SIGN DETAILS
E-102A	5/1/2004	CONSTRUCTION SIGN DETAILS
E-103	3/1/2004	MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED
E-106	3/1/2004	TRAFFIC CONTROL MISCELLANEOUS DETAILS
E-107	6/30/2003	DELINEATION, BARRICADES AND DETOURS FOR U-TURNS ON DIVIDED HIGHWAY
E-107A	6/8/2009	BREAKAWAY BARRICADE DETAILS
E-110	8/8/1995	MAJOR MAINTENANCE OPERATION LANE CLOSURE
E-120	8/8/1995	STANDARD SIGN PLACEMENT - EXPRESSWAY AND FREEWAY
E-121	8/8/1995	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD
E-123	3/16/2004	GUIDE SIGN PLACEMENT - MISCELLANEOUS DETAILS
E-126	2/1/2000	TYPICAL FREEWAY INTERCHANGE SIGNING
E-127	8/8/1995	ROUTE MARKINGS AT RURAL INTERSECTIONS
E-130	8/8/1995	TYPE "B" GUIDE SIGN ATTACHMENT DETAILS
E-131	8/8/1995	GUIDE SIGN DETAILS
E-132	8/18/1995	GENERAL MOTORIST SERVICE SIGN DETAILS
E-133	8/8/1995	SERVICE SIGN DETAILS
E-135	8/18/1995	INTERSTATE ROUTE MARKER SIGN DETAIL
E-136A	8/8/1995	U.S. ROUTE MARKER SIGN DETAILS
E-136B	8/8/1995	STATE ROUTE MARKER SIGN DETAILS
E-139	5/1/2004	MILEMARKER DETAILS - INTERSTATE
E-141	9/20/1995	REGULATORY SIGN DETAILS
E-142	9/20/1995	REGULATORY SIGN DETAILS
E-143	6/15/2004	REGULATORY SIGN DETAILS
E-144	3/29/1999	REGULATORY SIGN DETAILS
E-145A	12/23/1994	REGULATORY SIGN DETAILS - LANE USE CONTROL SIGNS (TWO AND FOUR LANE APPROACHES)
E-145B	12/23/1994	REGULATORY SIGN DETAILS - LANE USE CONTROL SIGNS (THREE LANE APPROACHES)
E-146	9/20/1995	REGULATORY SIGN DETAILS
E-150	5/1/2004	WARNING SIGN DETAILS
E-151	5/1/2004	WARNING SIGN DETAILS
E-152	5/1/2004	WARNING SIGN DETAILS
E-153	5/1/2004	WARNING SIGN DETAILS
E-154	5/1/2004	WARNING SIGN DETAILS
E-155	5/1/2004	WARNING SIGN DETAILS
E-161	8/18/1995	W-SHAPED STEEL SIGN POST
E-162	5/20/1999	TUBULAR ALUMINUM SIGN POST
E-163	5/20/1999	TUBULAR STEEL SIGN POST
E-164	6/8/2009	SQUARE STEEL SIGN POST
E-197	4/1/2005	DELINEATOR PLACEMENT TYPICAL
E-199	4/1/2005	FREEWAY-EXPRESSWAY DELINEATOR AND MILEPOST MOUNTING ON BRIDGE RAIL
G-1	1/3/2000	STEEL BEAM GUARDRAIL WITH STEEL POSTS, STEEL BEAM GUARDRAIL WITH WOOD POSTS
G-1d	1/3/2000	STEEL BEAM GUARDRAIL APPROACH AND TRAILING END TERMINAL, ANCHOR FOR STEEL BEAM RAIL, STEEL BEAM MEDIAN BARRIER
G-19	11/15/2002	GENERIC PLANS FOR GUARDRAIL END TERMINALS

INDEX OF SHEETS

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020index.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
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MODEL: Index

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION (VTRANS) STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2006, AND ITS LATEST REVISIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED 2003, AND ITS LATEST REVISIONS AND THE STANDARD HIGHWAY SIGNS BOOK, DATED 2004, AND ITS LATEST REVISIONS.

2. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS ARE TO BE REMOVED UNLESS OTHERWISE NOTED OR AS DIRECTED BY THE ENGINEER. ALL NEW SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS, MUTCD, APPLICABLE VTRANS E-SERIES STANDARDS OR AS DIRECTED BY THE ENGINEER.

3. REFER TO SIGN DETAIL SHEETS FOR GUIDE SIGN CLEARVIEW FONT AND RETROREFLECTIVE SHEETING REQUIREMENTS.

4. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THESE PLANS, APPLICABLE VTRANS E-SERIES STANDARDS AND PART 6 OF THE MUTCD OR AS DIRECTED BY THE ENGINEER.

5. TEXT LAYOUT DIMENSIONS AND DESIGN OF SYMBOLS FOR STANDARD SIGNS NOT DETAILED ON THESE PLANS OR IN THE E-SERIES STANDARDS CAN BE FOUND IN THE LATEST PUBLICATION OF THE MUTCD STANDARD HIGHWAY SIGNS.

6. THE CONTRACTOR SHALL REVIEW AND UNDERSTAND ALL APPLICABLE PERMITS PRIOR TO CONSTRUCTION AND ENSURE THAT ALL CONSTRUCTION CONDITIONS ARE MET.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTY CAUSED BY THE CONTRACTOR, AT THE SOLE COST OF THE CONTRACTOR.

8. THINNING AND TRIMMING MAY BE REQUIRED AT VARIOUS SIGN LOCATIONS THROUGHOUT THE PROJECT. THIS WORK SHALL INCLUDE REMOVAL OF ANY TREES, SHRUBS OR OVERGROWTH NECESSARY FOR PLACEMENT OF SIGNS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID UNDER ITEM 201.31, "THINNING AND TRIMMING FOR SIGNS".

9. ALL NEW 2-INCH SQUARE STEEL SIGN POST SHALL BE 12-GUAGE.

10. THE CONTRACTOR SHALL ERECT NEW POSTS AND MOUNT NEW SIGNS BEHIND EXISTING SIGNS PRIOR TO REMOVING THE OLD SIGN AND POSTS, WHERE APPLICABLE, OR AS DIRECTED BY THE ENGINEER.

11. THE ABBREVIATIONS "OUT" AND "MED" REFER TO LOCATIONS OUTSIDE OF THE NORTHBOUND OR SOUTHBOUND INTERSTATE BARREL OR IN THE MEDIAN, RESPECTIVELY. ANY REFERENCE TO "LEFT" AND/OR "RIGHT" REFERS TO THE DIRECTION OF STATIONING AND NOT THE DIRECTION OF TRAFFIC.

12. DELINEATORS: NEW MAINLINE DELINEATORS WITH OR WITHOUT MILEPOST PLAQUES ARE NOT SHOWN ON THE PLANS. REFER TO STANDARD E-197 AND DETAILS ON NEXT SHEET FOR GENERAL PLACEMENT AND SPACING CRITERIA. AN ESTIMATED QUANTITY OF DELINEATORS W/STEEL POSTS AND REMOVAL OF EXISTING DELINEATORS HAS BEEN INCLUDED. POSTS FOR DELINEATORS TO BE REMOVED SHALL NOT BE CUT BUT SHALL BE COMPLETELY REMOVED FROM THE GROUND.

13. PROPOSED RAMP MILE MARKER PLAQUES ARE NOT DEPICTED ON THE PLANS. REFER TO THE SIGN DETAIL SHEETS FOR THE PLAQUE DETAIL AND A LIST OF PROPOSED LOCATIONS. EXISTING MILEMARKERS ON NON-INTERSTATE HIGHWAYS ARE TO BE SALVAGED AND INSTALLED ON POSTS FOR NEW SIGNS OR RETAINED IF ON SEPARATE POSTS OR AS DIRECTED BY THE ENGINEER. NOT ALL EXISTING MILEMARKER LOCATIONS ARE DEPICTED ON THE PLANS. PAYMENT FOR ATTACHING TO NEW POSTS WILL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE SIGN POST PAY ITEM IN THE CONTRACT.

14. ALL STATIONING ALONG RAMPS AND STATE/TOWN HIGHWAYS IN MILES ARE APPROXIMATE ONLY. REFER TO STANDARD SHEETS FOR APPROPRIATE SIGN PLACEMENT GUIDELINES.

15. PROPOSED BRIDGE PLAQUES ARE NOT DEPICTED ON THE PLANS. REFER TO THE SIGN DETAIL SHEETS FOR THE BRIDGE PLAQUE DETAIL AND A LIST OF PROPOSED LOCATIONS.

SEEDING FORMULA - RURAL AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	22.5	CREEPING RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			

SEEDING NOTES

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

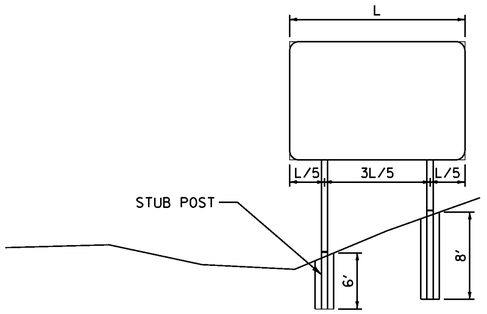
SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE RESIDENT ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.

HAY MULCH: TO BE PLACED ON THE EARTH SLPOES AT THE RATE OF 2 TONS/ACRE, OR AS DIREDTED BY THE RESIDENT ENGINEER.

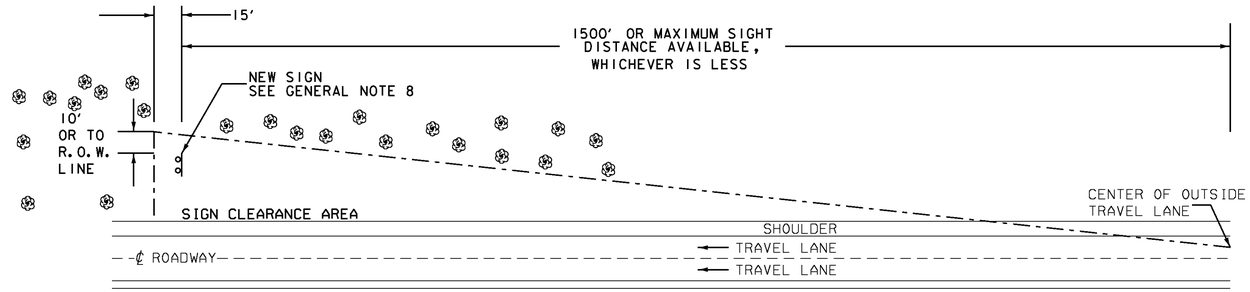
TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.



W-SHAPE FOOTING DETAIL

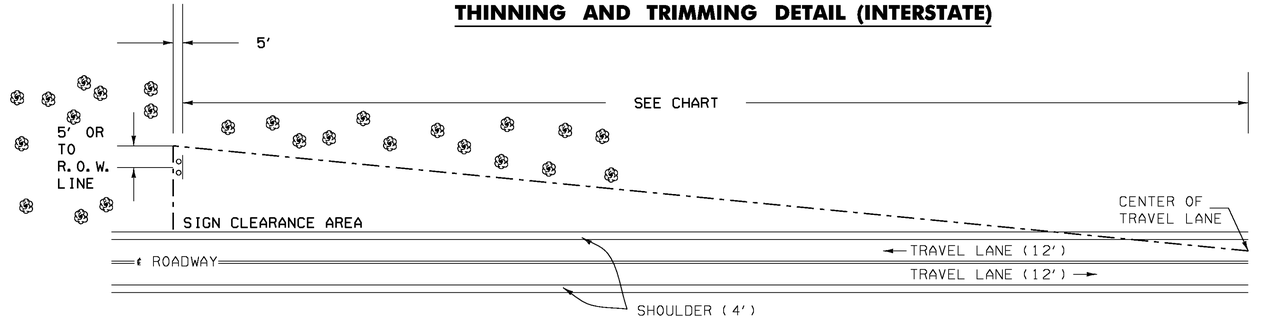
NOTES

1. THE LONGER CONCRETE FOOTINGS SHALL BE USED AT POST LOCATIONS ON STEEP SIDE SLOPES AS IDENTIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. FORMS/TUBES FOR THE LONGER CONCRETE FOOTINGS SHALL BE SMOOTH. CORRUGATED PIPE SHALL NOT BE USED.
3. REFER TO VTRANS STANDARD E-161 FOR ADDITIONAL NOTES AND DETAILS REGARDING CONCRETE FOOTINGS.
4. PAYMENT FOR THE LONGER CONCRETE FOOTINGS SHALL BE PAID FOR UNDER ITEM 900.620 SPECIAL PROVISION (FOUNDATION FOR W-SHAPE STEEL POST, 24 INCH DIAMETER.)



THE CONTRACTOR SHALL REMOVE ALL WOODY STEMMED GROWTH INCLUDING BRUSH, SAPLINGS, TREE LIMBS GROWING WITHIN OR PROJECTING INTO THE CLEARANCE AREA AND DOWN TO GROUND LEVEL OR AT LEAST 10'-0" BELOW THE BOTTOM OF THE SIGN, WHICH EVER IS LESS. PAYMENT WILL BE FOR ITEM 201.31 THINNING AND TRIMMING FOR SIGNS AND PAID FOR PER EACH SIGN ASSEMBLY LOCATION.

THINNING AND TRIMMING DETAIL (INTERSTATE)



MINIMUM SIGN SIGHT DISTANCE CHART

APPROACH SPEED (mph)	SIGHT DISTANCE (feet)
30 OR LESS	300
35	350
40	400
45	450
50	500
55	550

THINNING AND TRIMMING DETAIL

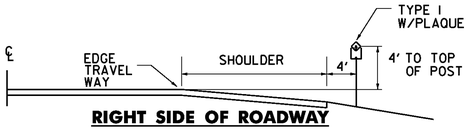
(CONVENTIONAL ROADS)

GENERAL NOTES & MISCELLANEOUS DETAILS

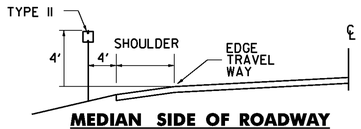
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020miscdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 3 OF 163

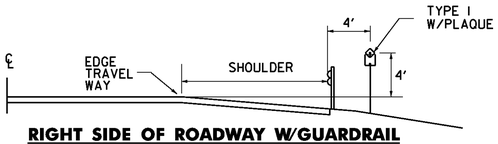
MODEL: GeneralNotes



RIGHT SIDE OF ROADWAY



MEDIAN SIDE OF ROADWAY



RIGHT SIDE OF ROADWAY W/GUARDRAIL

TYPICAL PLACEMENT OF DELINEATORS AND MILEPOSTS ON DIVIDED HIGHWAY

TYPE I DELINEATORS WITH WHITE REFLECTOR UNITS AND APPROPRIATE MILEPOST PLAQUES SHALL BE ERECTED CONTINUOUSLY ALONG THE RIGHT SIDE IN THE DIRECTION OF TRAVEL OF THE DIVIDED HIGHWAY BETWEEN MILE MARKERS AT 0.05 MILE INTERVALS.

TYPE I DELINEATORS WITH OR WITHOUT MILEPOST PLAQUES SHALL BE OMITTED ALONG DECELERATION AND ACCELERATION LANES, BUT THE SUCCEEDING SPACING SHALL BE AS IF THE DELINEATORS HAD BEEN ERECTED CONTINUOUSLY.

THE LOCATION OF TYPE I DELINEATORS AND MILEPOSTS ARE TO BE COMPUTED AND MARKED IN THE FIELD BY THE ENGINEER IN ACCORDANCE WITH THE LATEST REVISION OF THE AGENCY'S ''POLICY ON LOCATION MARKING FOR VERMONT DIVIDED HIGHWAYS.''

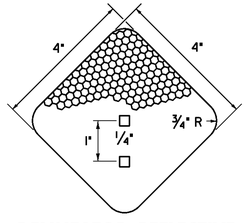
YELLOW TYPE II DELINEATORS SHALL BE ERECTED CONTINUOUSLY ALONG THE LEFT (MEDIAN) SIDE OF THE DIVIDED HIGHWAY AT 0.10 MILE INTERVALS AND CONTINUED AT APPROXIMATELY THE SAME SPACING THROUGH INTERCHANGES AND REST AREAS WHERE THERE MAY NOT BE ANY TYPE I DELINEATORS ON THE RIGHT SIDE. PLACEMENT OF TYPE II DELINEATORS SHALL BE FOLLOWED ON THE LEFT AS ON THE RIGHT.

TYPE I DELINEATORS WITHOUT PLAQUE SHALL BE ERECTED AT THE BEGINNING (BLUE) AND AT THE END (GREEN) OF EACH GUARDRAIL RUN.

TYPE III DELINEATORS

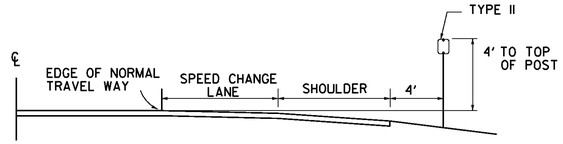
TYPE III DELINEATORS WILL BE TYPE I DELINEATORS WITH AN ADDITIONAL RED REFLECTIVE UNIT MOUNTED ON THE REVERSE SIDE. THEY SHALL BE ERECTED ON THE RIGHT AND LEFT SIDE OF THE RAMPS AS SHOWN ON THE PLANS.

TYPE III DELINEATORS SHALL BEGIN 50'-0" FROM THE WRONG WAY SIGNS AND EXTEND EVERY 50'-0" TO A POINT NOT LESS THAN 25'-0" FROM THE INTERSECTING ROAD. SEE STANDARD E-197.



DELINEATOR REFLECTIVE SHEETING UNIT

MATERIAL FOR DELINEATORS:
- 1/16" ALUMINUM BACKING.
- WHITE/BLUE/GREEN: ASTM TYPE III RETROREFLECTIVE SHEETING.
- RED/YELLOW: ASTM TYPE VII, VIII, OR IX RETROREFLECTIVE SHEETING.

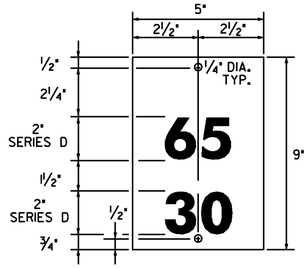


TYPICAL PLACEMENT OF TYPE II DELINEATORS ON SPEED CHANGE LANES

TYPE II DELINEATORS SHALL BE ERECTED CONTINUOUSLY ALONG THE RIGHT SIDE OF THE DECELERATION AND ACCELERATION LANES AT 100' INTERVALS INCLUDING GUARDRAIL SECTIONS. THE DELINEATORS SHALL START AT THE BEGINNING OF THE TAPER AND END AT THE NOSE OF THE EXIT OR ENTRANCE GORE. THEY SHALL HAVE WHITE REFLECTOR UNITS.

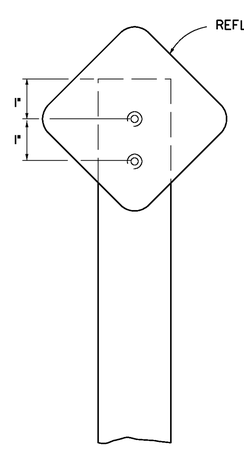
NOTES

1. REFER TO STANDARD E-197 FOR DELINEATOR PLACEMENT DETAILS. WHERE DISCREPANCIES EXIST BETWEEN E-197 AND THIS SHEET, THE DETAILS ON THIS SHEET SHALL GOVERN.
2. FOR MOUNTING DELINEATORS AND MILEPOSTS ON BRIDGES, SEE STANDARD E-199
3. DELINEATOR POSTS SHALL BE 1.75" 1.88 LB/FT SQUARE STEEL, AND A MINIMUM OF 8 FEET LONG.
4. DELINEATOR POSTS SHALL HAVE A MINIMUM EMBEDMENT OF 2'-6" IN THE GROUND.
5. WHEN USING DELINEATORS AND MILEPOSTS ON STEEP SLOPES (1 ON 2 OR STEEPER) OR ERODED SOILS ADD ONE FOOT FOR GREATER STABILITY.



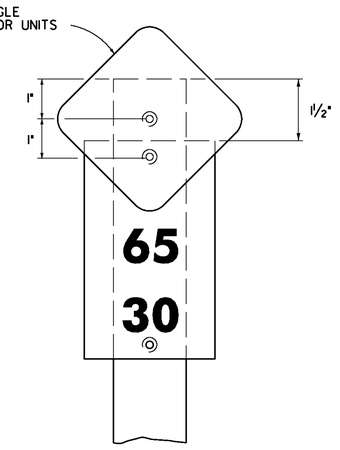
MILEPOST PLAQUE

MATERIAL FOR RETROREFLECTIVE SHEETING FOR DELINEATORS SHALL BE A 0.063" ALUMINUM BACKING WITH ASTM TYPE III RETROREFLECTIVE SHEETING GREEN LEGEND ON A WHITE BACKGROUND.



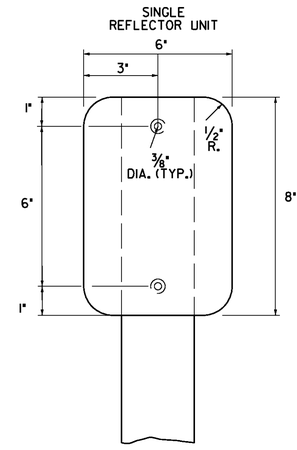
TYPE I WITHOUT PLAQUE

TO BE USED ALONG RAMPS



TYPE I WITH PLAQUE

TO BE USED ALONG MAINLINE



TYPE II

TO BE USED ALONG MAINLINE

DELINEATORS WITH RETROREFLECTIVE SHEETING

DELINEATOR AND MILEPOST DETAILS

PROJECT NAME: ROYALTON-MIDDLESEX	
PROJECT NUMBER: IMG SIGN(19)	
FILE NAME: z09a020miscdet.dgn	PLOT DATE: 8/12/2009
PROJECT LEADER: CRB	DRAWN BY: JBZ
DESIGNED BY: BDB	CHECKED BY: DAM
CLD REF. NO.: 09-0106	SHEET 4 OF 163

MODEL: Delin and Mile Details

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES		TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
ROADWAY	EROSION CONTROL	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
41		41		EACH	THINNING AND TRIMMING FOR SIGNS	201.31	EST.			
1		1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	EST.			
875		875		HR	UNIFORMED TRAFFIC OFFICERS	630.10	8			
175		175		HR	FLAGGERS	630.15	2			
1		1		LS	TESTING EQUIPMENT, CONCRETE	631.16	-			
1		1		LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
1		1		LS	TRAFFIC CONTROL	641.10	-			
4		4		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-			
2		2		EACH	PORTABLE ARROW BOARD	641.16	-			
	8	8		LB	SEED	651.15	-			
	80	80		LB	FERTILIZER	651.18	-			
	1	1		TON	AGRICULTURAL LIMESTONE	651.20	0.7			
	1	1		TON	HAY MULCH	651.25	0.7			
	80	80		CY	TOPSOIL	651.35	4			
8100		8100		SF	TRAFFIC SIGNS, TYPE A	675.20	0.66			
12444		12444		SF	TRAFFIC SIGNS, TYPE B	675.21	0.75			
52305		52305		LB	W-SHAPE STEEL SIGN POST	675.31	-			
4556		4556		LB	TUBULAR ALUMINUM SIGN POST	675.32	0.2			
36147		36147		LB	TUBULAR STEEL SIGN POST	675.33	0.8			
9810		9810		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	0.2			
114		114		EACH	FOUNDATION FOR W-SHAPE STEEL POST, 24 INCH DIAMETER	675.41	-			
316		316		EACH	FOUNDATION FOR TUBULAR STEEL POST	675.43	-			
1286		1286		EACH	REMOVING SIGNS (TYPE A)	675.50	-			
127		127		EACH	REMOVING SIGNS (TYPE B)	675.50	-			
36		36		EACH	ERECTING SALVAGED SIGNS	675.60	-			
3375		3375		EACH	DELINEATOR WITH STEEL POST	676.10	EST.			
2975		2975		EACH	REMOVAL OF EXISTING DELINEATOR	676.12	EST.			
3		3		EACH	OVERHEAD TRAFFIC SIGN SUPPORT, MULTI-SUPPORT	677.13	-			
10		10		EACH	SPECIAL PROVISION (FOUNDATION FOR W-SHAPE STEEL POST, 24 INCH DIAMETER)	900.620	-			

QUANTITY SHEET

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020quantity sheet.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106

PLOT DATE: 8/26/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 5 OF 163

MODEL: Default

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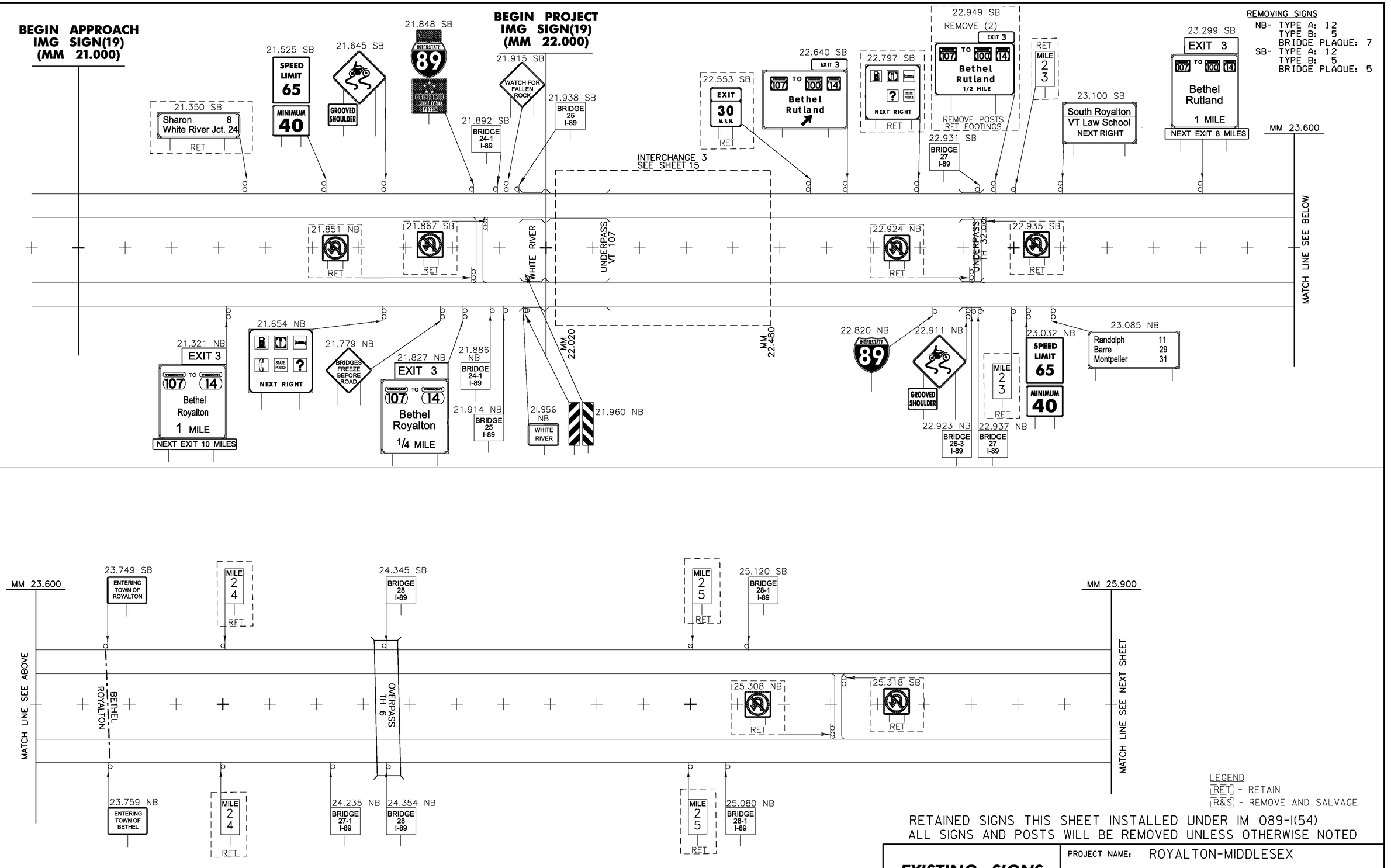


LEGEND
[RET] - RETAIN
[R&S] - REMOVE AND SALVAGE

RETAINED SIGNS THIS SHEET INSTALLED UNDER IM 089-1(54)
ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

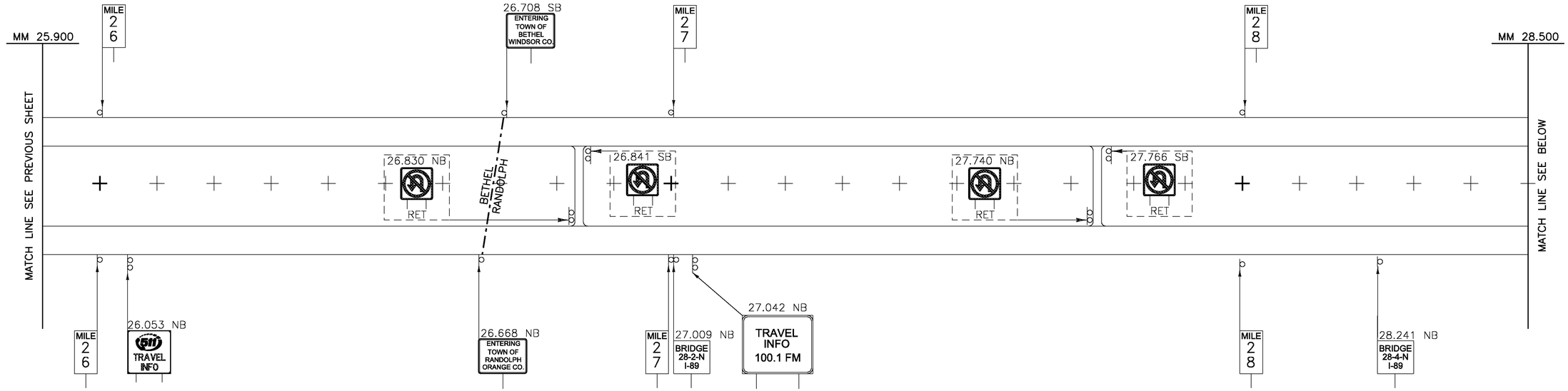
EXISTING SIGNS MAINLINE (1) 22.000 – 25.900

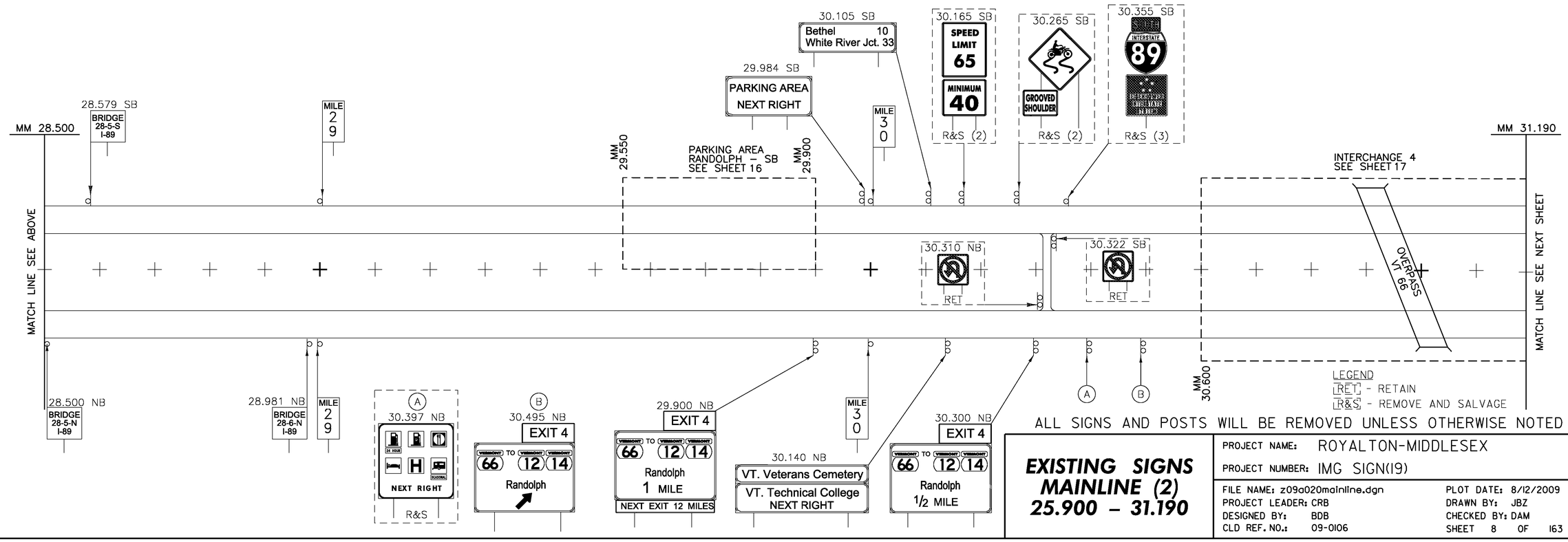
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 7 OF 163

MODEL: 01-Exist

REMOVING SIGNS
NB- TYPE A: 9
TYPE B: 8
BRIDGE PLAQUE: 4
SB- TYPE A: 13
TYPE B: 2
BRIDGE PLAQUE: 1





EXISTING SIGNS MAINLINE (2) 25.900 – 31.190

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 8 OF 163

MODEL: 02-Exist

REMOVING SIGNS
NB- TYPE A: 11
TYPE B: 2
BRIDGE PLAQUE: 4
SB- TYPE A: 7
TYPE B: 6
BRIDGE PLAQUE: 3

MM 31.190

MATCH LINE SEE PREVIOUS SHEET

31.320 SB
NEXT RIGHT
R&S

31.442 SB
BRIDGE 29-2 I-89

31.450 SB
EXIT 4
VERMONT TO VERMONT 66 TO 12
Randolph
1/2 MILE

31.549 SB
BRIDGE 29-3 I-89

31.643 SB
VT. Veterans Cemetery
VT. Technical College
NEXT RIGHT

31.950 SB
EXIT 4
VERMONT TO VERMONT 66 TO 12
Randolph
1 MILE
NEXT EXIT 10 MILES

MILE 3 2

A
31.198 SB
EXIT 4
VERMONT TO VERMONT 66 TO 12
Randolph

MILE 3 3

33.203 SB
BRIDGE 30-S I-89

REST AREA RANDOLPH-SB SEE SHEET 18

MM 33.800

MATCH LINE SEE BELOW

31.495 NB
RET

31.512 SB
RET

32.891 NB
RET

32.901 SB
RET

OVERPASS TH-26

MM 33.450

MM 33.750

31.441 NB
BRIDGE 29-2 I-89

31.562 NB
BRIDGE 29-3 I-89

31.500 NB
NORTH INTERSTATE 89
BELLOWS FREE HANS VERMONT

31.567 NB
GROOVED SHOULDER

31.671 NB
SPEED LIMIT 65
MINIMUM 40

31.746 NB
Northfield 15
Barre 22

31.869 NB
MOOSE CROSSING
NEXT 10 MILES
RET

MILE 3 2

MILE 3 3

33.165 NB
BRIDGE 30-N I-89

33.546 NB
WEIGH STATION 3/4 MILE
CLOSED

33.780 NB
ALL TRUCKS NEXT RIGHT
RET

33.906 SB
REST AREA NEXT RIGHT
WEIGH STATION NEXT RIGHT
WiFi
RET

MILE 3 4

34.190 SB
ALL TRUCKS NEXT RIGHT
RET

34.436 SB
WEIGH STATION 3/4 MILE
CLOSED
RET

34.620 SB
ENTERING TOWN OF RANDOLPH ORANGE CO.
RET

34.825 SB
REST AREA 1 MILE
OPEN 7AM-11PM
RET

MILE 3 5

35.500 SB
MOOSE CROSSING
NEXT 5 MILES
RET

MM 33.800

MM 35.900

MATCH LINE SEE ABOVE

MATCH LINE SEE NEXT SHEET

RANDOLPH
BROOKFIELD

35.033 SB
RET

35.100 NB
RET

35.119 SB
RET

35.769 NB
BRIDGE 30-2-N I-89

34.048 NB
WEIGH STATION NEXT RIGHT
RET

MM 34.250

REST AREA RANDOLPH-NB SEE SHEET 19

MM 34.600

34.595 NB
ENTERING TOWN OF BROOKFIELD ORANGE CO.

MILE 3 5

35.014 NB
RET

LEGEND
RET - RETAIN
R&S - REMOVE AND SALVAGE

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

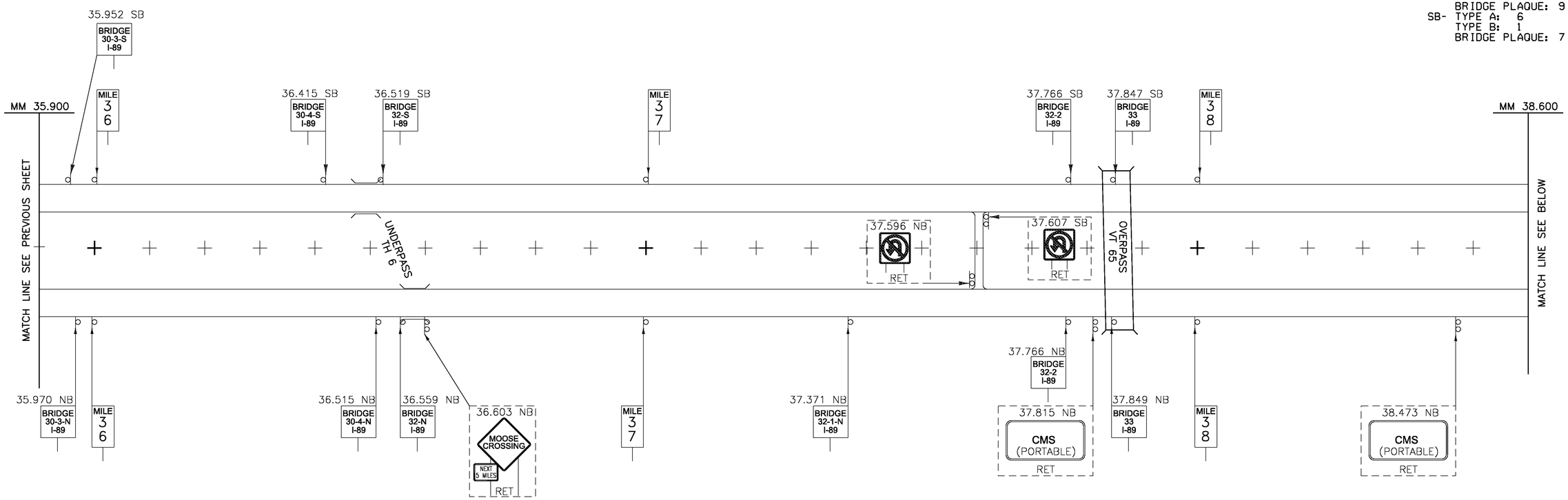
EXISTING SIGNS MAINLINE (3) 31.190 – 35.900

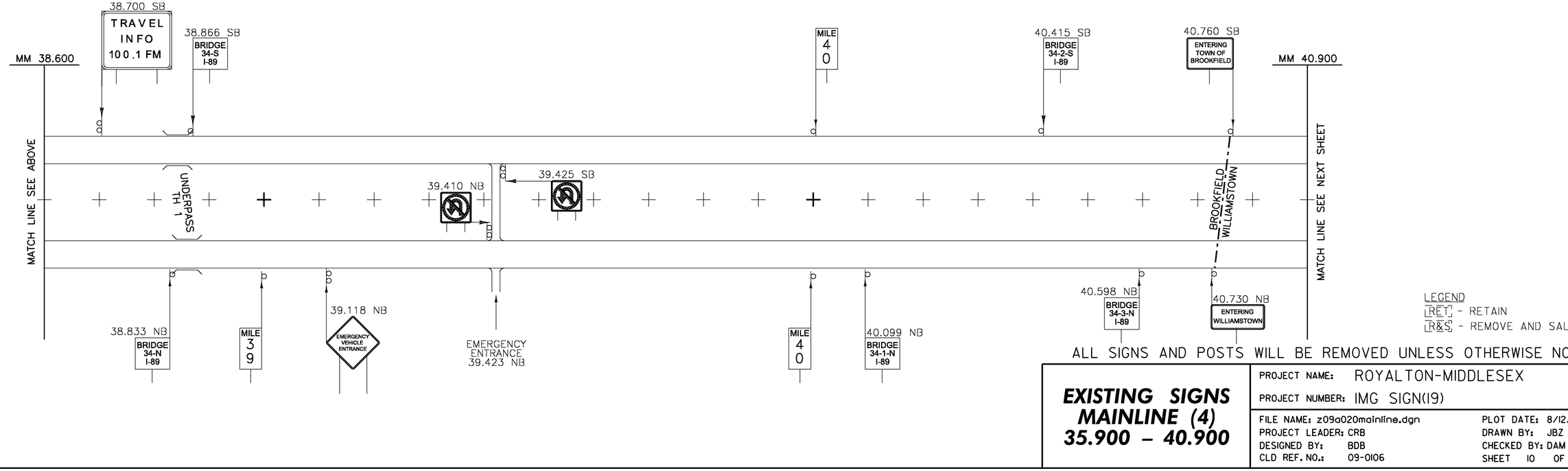
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 9 OF 163

MODEL: 03-Exist

REMOVING SIGNS
NB- TYPE A: 8
TYPE B: 0
BRIDGE PLAQUE: 9
SB- TYPE A: 6
TYPE B: 1
BRIDGE PLAQUE: 7





LEGEND
[RET] - RETAIN
[R&S] - REMOVE AND SALVAGE

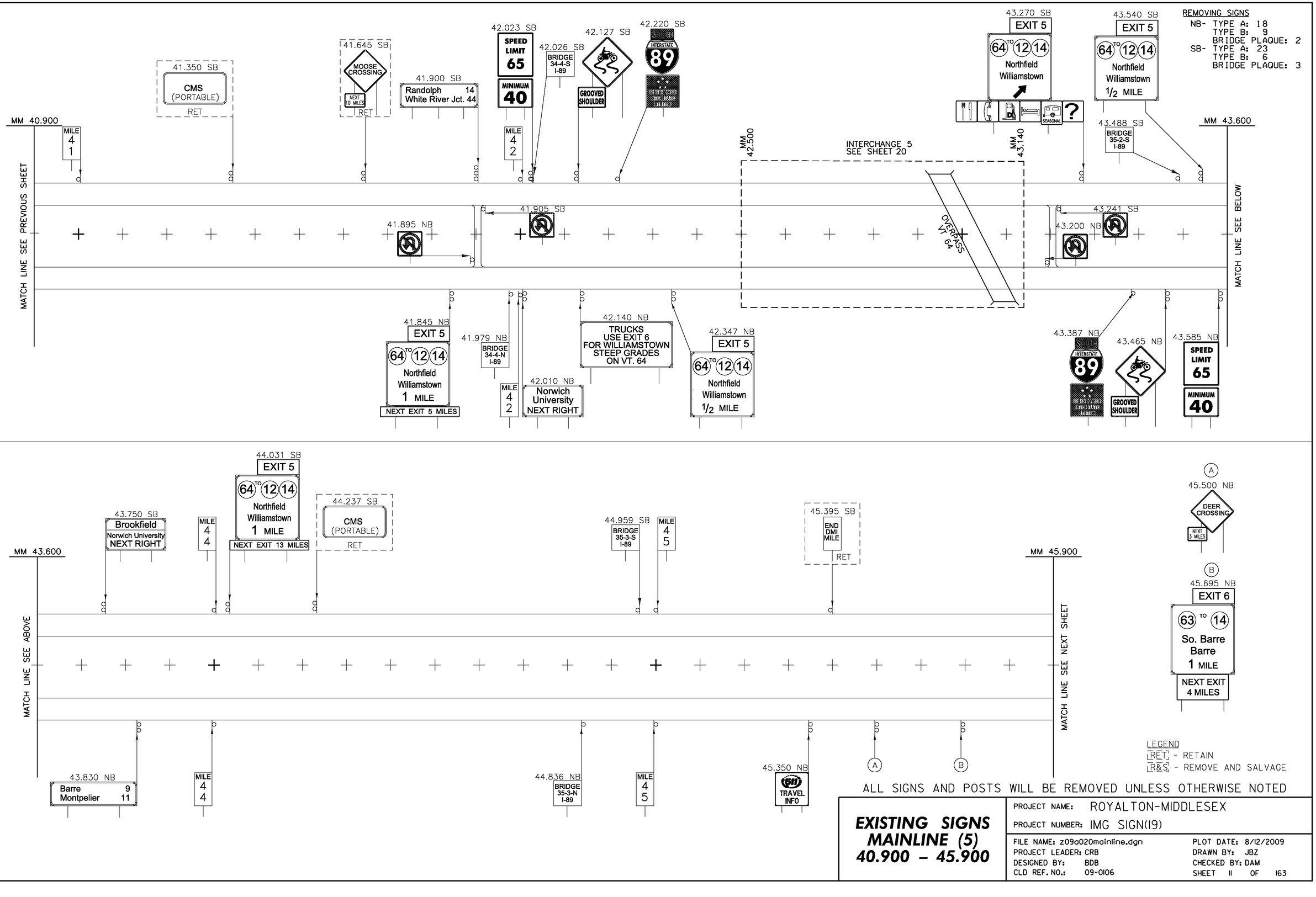
ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

EXISTING SIGNS MAINLINE (4) 35.900 – 40.900

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 10 OF 163

MODEL: 04-Exist



REMOVING SIGNS

NB- TYPE A: 18
TYPE B: 9
BRIDGE PLAQUE: 2

SB- TYPE A: 23
TYPE B: 6
BRIDGE PLAQUE: 3

LEGEND

[RET] - RETAIN

[R&S] - REMOVE AND SALVAGE

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

EXISTING SIGNS MAINLINE (5) 40.900 – 45.900

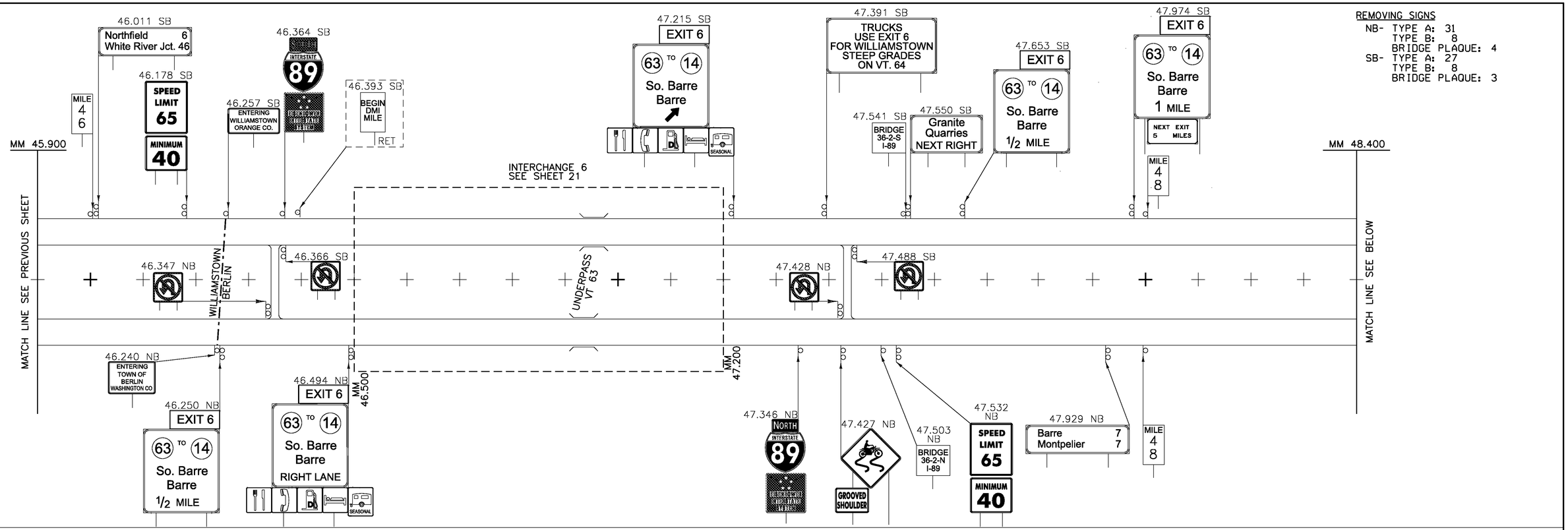
PROJECT NAME: ROYALTON-MIDDLESEX

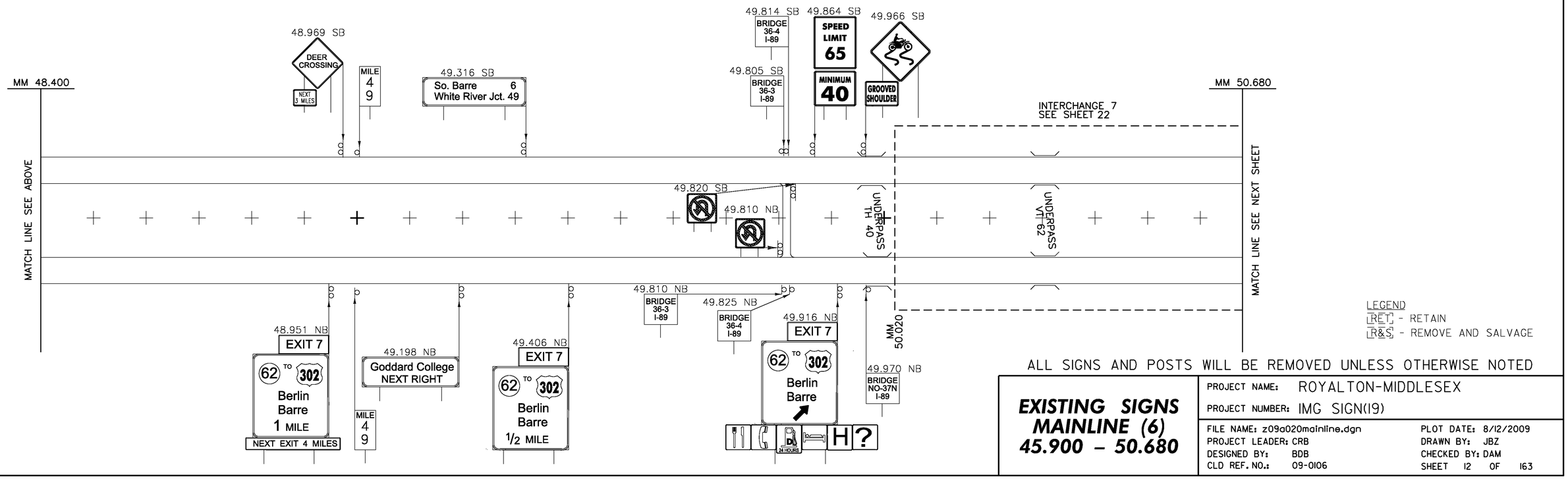
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 11 OF 163

MODEL: 05-Exist





ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

EXISTING SIGNS MAINLINE (6) 45.900 – 50.680

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 12 OF 163

MODEL: 06-Exist

REMOVING SIGNS
NB- TYPE A: 54
TYPE B: 9
BRIDGE PLAQUE: 5
SB- TYPE A: 55
TYPE B: 13
BRIDGE PLAQUE: 4

MM 50.680
MATCH LINE SEE PREVIOUS SHEET
50.778 SB BRIDGE 39 I-89
50.732 NB 50.741 SB 50.848 NB
50.849 SB EMERGENCY STOPPING ONLY
50.930 SB EXIT 7 62 TO 302 Berlin Barre
51.255 SB Goddard College NEXT RIGHT
51.393 SB EXIT 7 62 TO 302 Berlin Barre 1 MILE NEXT EXIT 4 MILES
51.550 SB KEEP RIGHT EXCEPT TO PASS
51.770 SB Barre 6 White River Jct. 52
MILE 5 1
MILE 5 2
52.179 SB ENTERING TOWN OF BERLIN
52.214 SB Barre NEXT 2 EXITS
52.315 SB BRIDGE 39-1 I-89
52.589 SB SPEED LIMIT 65 MINIMUM 40
52.667 SB GROOVED SHOULDER
52.725 SB INTERSTATE 89
52.778 SB BRIDGES FREEZE BEFORE ROAD
INTERCHANGE 8 SEE SHEET 23
MM 53.250
MATCH LINE SEE BELOW
OVERPASS TH 18
50.856 SB
50.755 NB CMS (PORTABLE) RET
50.791 NB BRIDGE 39 I-89
50.898 NB SPEED LIMIT 65 MINIMUM 40
51.010 NB Montpelier 3 Burlington 38
51.540 NB Welcome to Montpelier Capital of Vermont / Bienvenue a' Montpelier Capitale du Vermont
51.740 NB EXIT 8 2 Montpelier 1 MILE NEXT EXIT 6 MILES
51.960 NB RET
52.092 NB GROOVED BRIDGE AHEAD
52.232 NB EXIT 8 2 Montpelier 1/2 MILE VISITOR CENTER
52.252 NB BRIDGE ICES BEFORE ROAD
52.319 NB BRIDGE 39-1 I-89
52.381 NB
52.389 NB
52.484 NB BRIDGE 40-N I-89
52.597 NB EXIT 8 2 Montpelier
52.755 NB
52.270 – 52.555 NB (7)
52.683 NB EXIT 40 M.P.H.
MM 52.780
BERLIN MONTPELIER
MONTPELIER BERLIN
UNDERPASS VT 12
UNDERPASS MONTPELIER S.H.
50.760 NB NORTH INTERSTATE 89
50.824 NB 5% NEXT 2 MILES FLASHING BEACON RET
50.824 NB 5% NEXT 2 MILES RET

MM 53.250
MATCH LINE SEE ABOVE
53.315 SB EXIT 8 2 TO 12 Montpelier St. Johnsbury
53.830 SB BRIDGES FREEZE BEFORE ROAD
53.850 SB EXIT 8 2 TO 12 Montpelier St. Johnsbury 1/2 MILE VISITOR CENTER
54.049 SB
54.142 SB EXIT 8 2 TO 12 Montpelier St. Johnsbury 1 MILE NEXT EXIT 3 MILES
54.255 SB BRIDGE 42-2 I-89
54.304 SB Welcome to Montpelier Capital of Vermont / Bienvenue a' Montpelier Capitale du Vermont
54.435 SB CMS (PORTABLE) RET
54.540 SB
54.807 SB
54.925 SB BRIDGES FREEZE BEFORE ROAD
54.949 SB BRIDGE 43-1 I-89
55.049 SB BUMP (ORANGE) RET
55.259 SB 511 TRAVEL INFO
53.320 NB
53.340 NB 53.540 SB 54.785 NB
53.620–53.863 SB (8)
MM 55.900
MATCH LINE SEE NEXT SHEET
UNDERPASS US 2
MONTPELIER MIDDLESEX
53.350 SB
54.807 SB
54.897 NB
54.906 SB
53.300 NB NORTH INTERSTATE 89
53.340 NB
53.545 NB SPEED LIMIT 65 MINIMUM 40
53.640 NB GROOVED SHOULDER
53.890 NB BUCKLE UP IT'S THE LAW
MILE 5 4
53.950 NB MOOSE CROSSING NEXT 4 MILES
54.102 NB ENTERING TOWN OF MIDDLESEX
54.052 NB Middlesex 5 Burlington 35
54.273 NB BRIDGE 42-2 I-89
54.468 NB KEEP RIGHT EXCEPT TO PASS
54.690 NB BRIDGES FREEZE BEFORE ROAD
54.785 NB
54.937 NB BRIDGE 43-1 I-89
54.967 NB NEXT 1/2 MILE
MILE 5 5
55.550 NB BEGIN DMI MILE RET

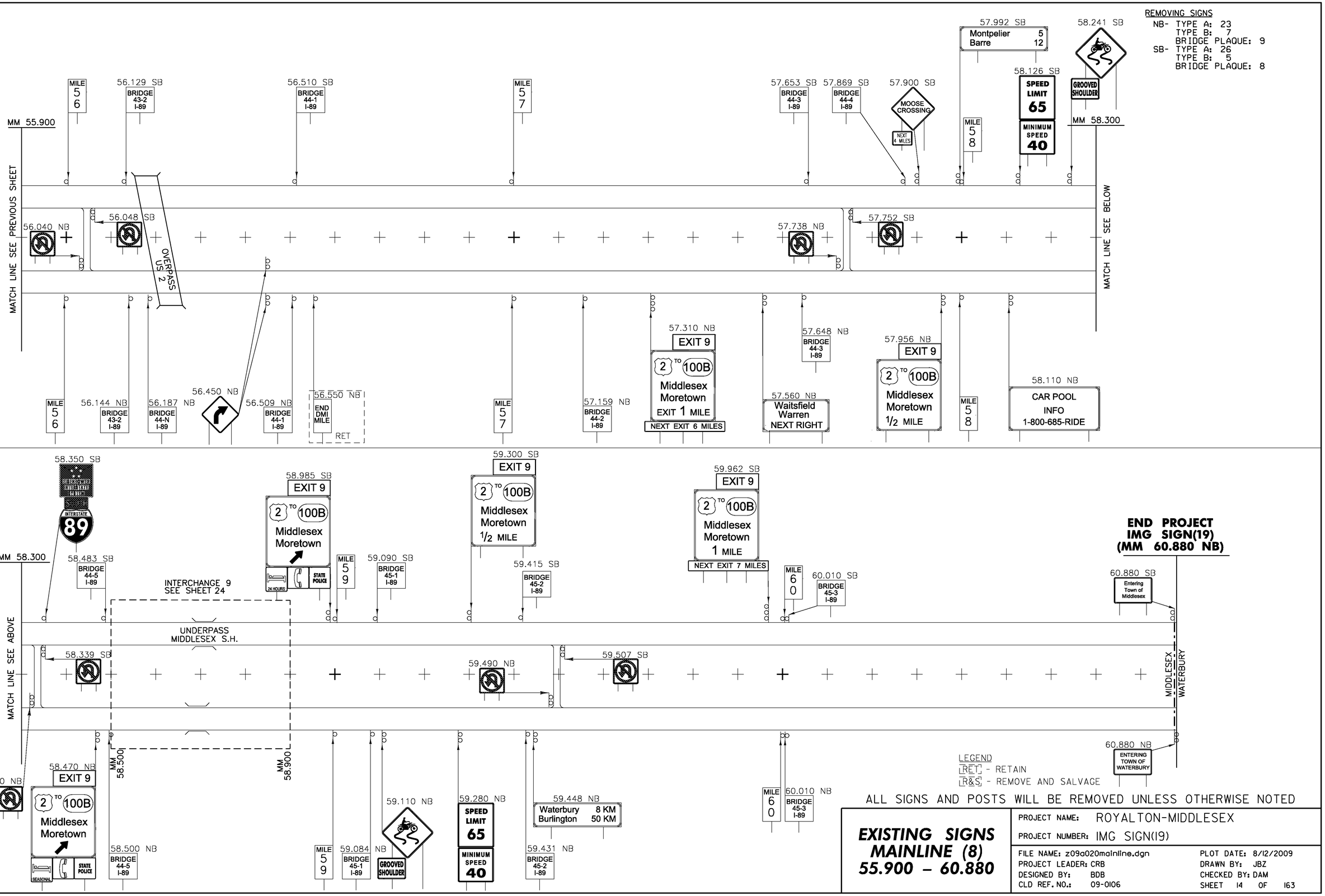
LEGEND
RET - RETAIN
R&S - REMOVE AND SALVAGE

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

EXISTING SIGNS MAINLINE (7) 50.680 – 55.900

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)
FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 13 OF 163

MODEL: 07-Exist



ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

EXISTING SIGNS MAINLINE (8) 55.900 – 60.880

PROJECT NAME: ROYALTON-MIDDLESEX

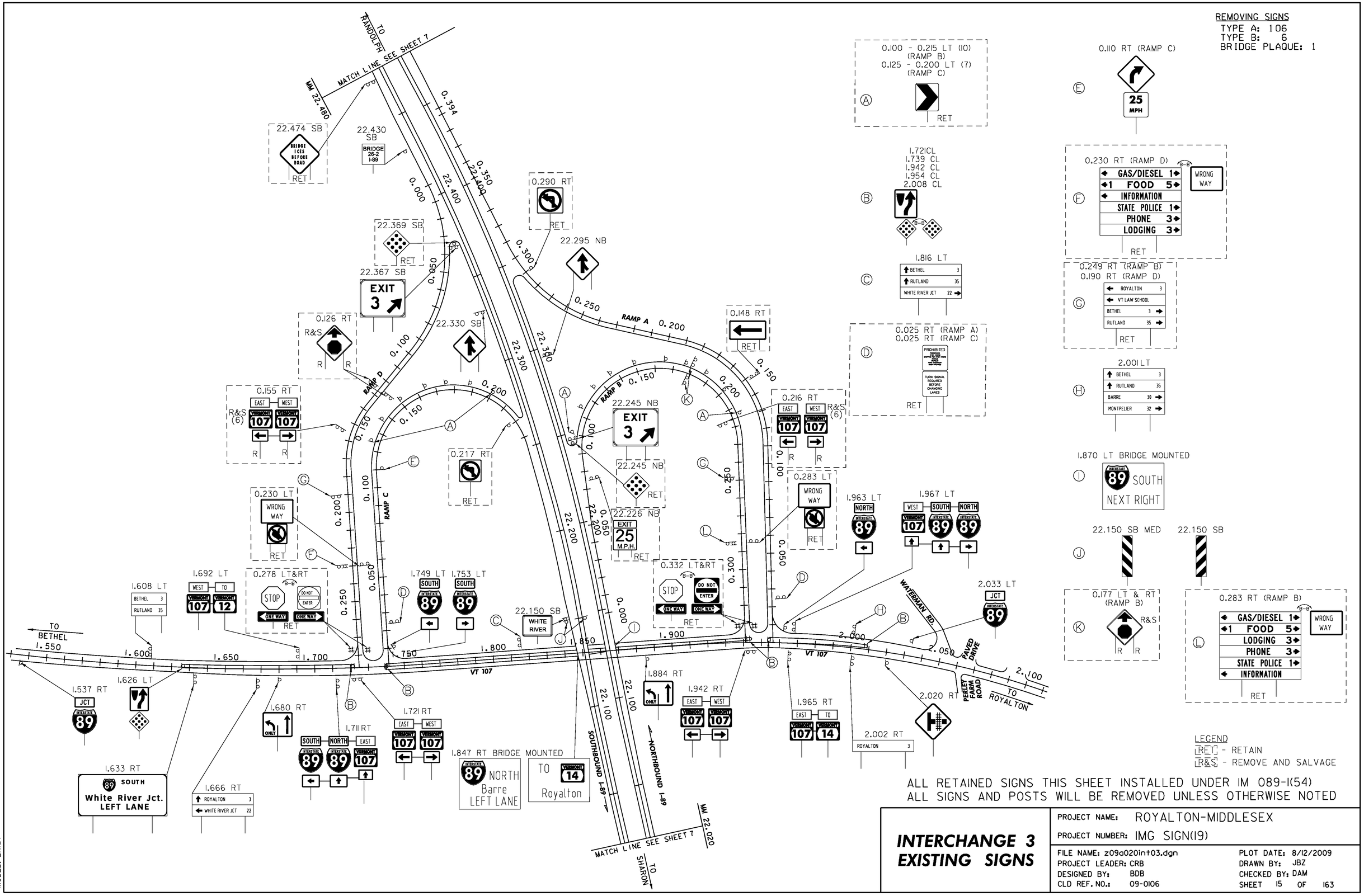
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM

MODEL: 08-Exist

REMOVING SIGNS
TYPE A: 106
TYPE B: 6
BRIDGE PLAQUE: 1



LEGEND
[RET] - RETAIN
[R&S] - REMOVE AND SALVAGE

ALL RETAINED SIGNS THIS SHEET INSTALLED UNDER IM 089-1(54)
ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

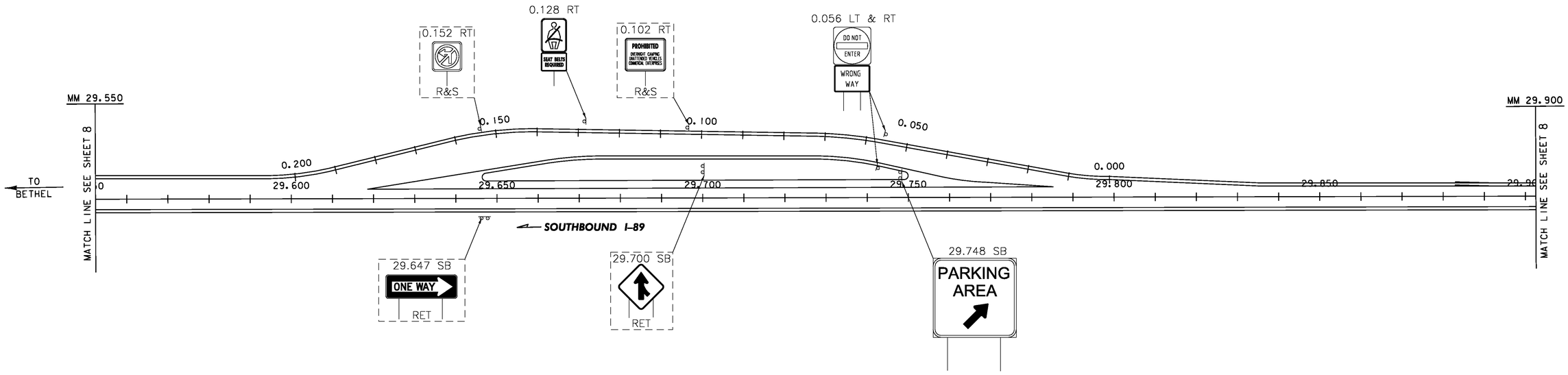
INTERCHANGE 3 EXISTING SIGNS

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a0201nt03.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 15 OF 163

MODEL: Exist

REMOVING SIGNS
TYPE A: 8
TYPE B: 1
BRIDGE PLAQUE: 0



LEGEND
[RET] - RETAIN
[R&S] - REMOVE AND SALVAGE

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

PARKING AREA
RANDOLPH – SB
EXISTING SIGNS
MM 29.675

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020rest-SB(29_70).dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 16 OF 163

MODEL: Exist

REMOVING SIGNS
TYPE A: 167
TYPE B: 2
BRIDGE PLAQUE: 4

MM 30.600
MM 31.190
MATCH LINE SEE SHEET 8
TO BETHEL
TO NORTHFIELD
SOUTHBOUND I-89
NORTHBOUND I-89
RAMP A
RAMP B
RAMP C
RAMP D
HARVEY ROAD
BETTIS ROAD
VT 66
VT 14
FIELD DRIVE
PAVED DRIVE
TO RANDOLPH
TO BROOKFIELD
2.255
2.280 LT
2.280 RT
2.300
2.318 LT
2.339 RT
2.350
2.382 LT
2.400
2.409 LT
2.410 LT
2.426 LT
2.438 RT
2.440 RT
2.441 RT
2.481 LT
2.429 CL
2.455 CL
2.473 CL
2.599 CL
2.610 CL
2.640 CL
2.436 LT
2.620 LT
30.844 SB
31.018 NB
30.898 SB
30.898 NB
2.406 RT
BROOKFIELD 8
BARRE 22
WHITE RIVER JCT 34
2.426 LT
HARVEY RD ANTIQUE CLOCKS
LEGAL LOAD LIMIT 24,000 POUNDS
R&S (1)
0.298 LT & RT (RAMP B)
0.235 LT & RT (RAMP C)
STOP
ONE WAY
DO NOT ENTER
0.049 RT
TURN SIGNAL REQUIRED BEFORE CHANGING LANES
PROHIBITED
0.148 RT
0.191 RT
SERVICES
DIESEL
GAS 24 HOURS 3
HOSPITAL 3
1 CAMPING 5
INFORMATION
WRONG WAY
0.157 RT
RANDOLPH 3
VT TECHNICAL COLLEGE 1
VERMONT VETERANS MEM CEMETERY 1
0.121 RT
0.062 RT
MILE 3 1
31.050 SB
EXIT 4
31.052 SB
31.089 SB
BRIDGE 29-1 I-89
0.191 LT
30.723 SB
ONE WAY
0.223
0.200
0.100
0.950
0.200
0.150
0.100
0.150
0.050
0.000
30.600
30.700
30.800
30.900
31.000
31.100
31.200
0.000
0.050
0.100
0.150
0.200
0.250
30.690 NB
30.693 SB
EXIT 4
0.090 RT
0.136 RT
0.199 RT
RANDOLPH 3
VT TECHNICAL COLLEGE 1
VERMONT VETERANS MEM CEMETERY 1
0.256 LT
WRONG WAY
0.256 RT
SERVICES
DIESEL
3 GAS 24 HOURS
3 HOSPITAL
5 CAMPING 1
INFORMATION
2.540 LT
ONLY
2.540 RT
2.584 RT
NORTH
2.584 LT
SPEED LIMIT 40
2.550
2.600
2.650
2.700
2.750
0.300
2.631 RT
PARK & RIDE
1-800-685-RIDE
BROOKFIELD 8
EAST
TO
2.638 RT
2.682 RT
2.678 LT
2.665 LT
RANDOLPH 3
WHITE RIVER JCT 34
BARRE 22
2.704 LT
TIS
RET
2.772 LT
JCT
2.643 LT
RET
BETTIS ROAD
NO OUTLET
STOP
MILE 3 1
31.089 NB
BRIDGE 29-1 I-89
0.052 RT
TURN SIGNAL REQUIRED BEFORE CHANGING LANES
PROHIBITED
2.620 LT
2.620 RT
2.409 LT
BEGIN
31.175 NB
0.266 RT
2.441 RT
2.481 LT
30.844 SB
31.018 NB
RET
30.898 SB
30.898 NB
BRIDGE 29 I-89

LEGEND
[RET] - RETAIN
[R&S] - REMOVE AND SALVAGE

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

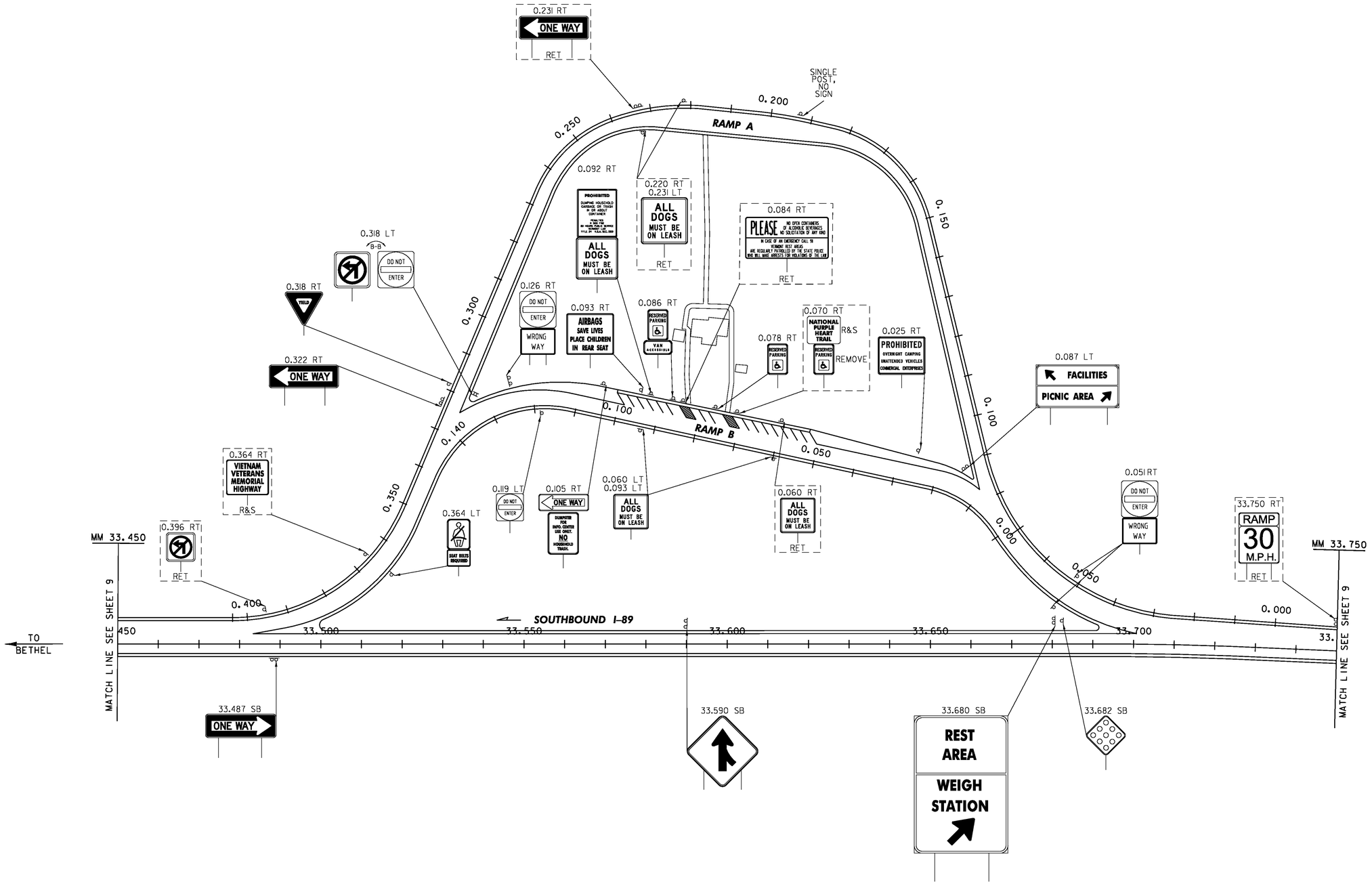
MODEL: Exist

INTERCHANGE 4 EXISTING SIGNS

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020in+04.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 17 OF 163

REMOVING SIGNS
TYPE A: 30
TYPE B: 2
BRIDGE PLAQUE: 0



LEGEND
RET - RETAIN
R&S - REMOVE AND SALVAGE

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

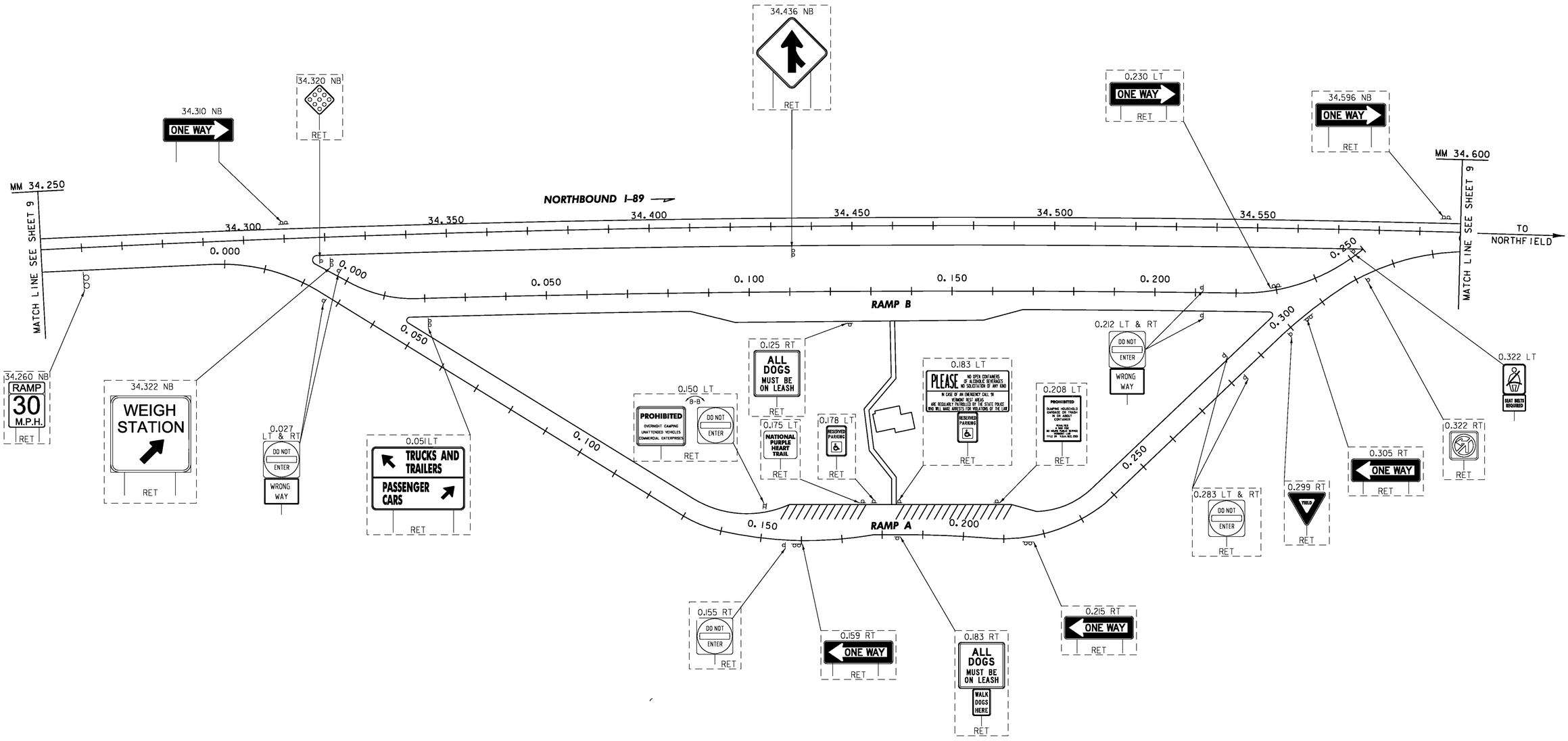
REST AREA
RANDOLPH – SB
EXISTING SIGNS
MM 33.600

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020rest-SB(34).dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 18 OF 163

MODEL: Exist

REMOVING SIGNS
TYPE A: 11
TYPE B: 0
BRIDGE PLAQUE: 0



LEGEND
RET - RETAIN
R&S - REMOVE AND SALVAGE

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

REST AREA
RANDOLPH - NB
EXISTING SIGNS
MM 34.450

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020rest-NB(34).dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 19 OF 163

MODEL: Exist

REMOVING SIGNS
TYPE A: 162
TYPE B: 8
BRIDGE PLAQUE: 3

MM 42.500
MATCH LINE SEE SHEET 11
TO WHITE RIVER JCT.
TO MONTPELIER
MATCH LINE SEE SHEET 11
MM 43.140
SOUTHBOUND I-89
NORTHBOUND I-89
RAMP A
RAMP B
RAMP C
RAMP D
FERNO ROAD
TO WILLIAMSTOWN
VT 64
NORTHFIELD FIELD DRIVE
COMMUTER LOT ENTRANCE
COMMUTER PARKING
PARK & RIDE
WRONG WAY
ONE WAY
DO NOT ENTER
NOT RECOMMENDED FOR TRUCKS
DRIVEWAY
MILE 43

0.041 RT
0.071 RT
0.088 LT
0.096 RT
0.119 LT
0.149 LT
0.176 LT
0.120 RT
0.130 RT
0.090 RT
0.165 RT
0.155 LT
0.120 LT
0.054 RT
0.380 RT
42.740 SB
43.076 SB
43.079 SB
42.593 SB
0.260 RT (FOLDING/HINGED)
43.055
43.090
0.155 RT
42.934
42.867 NB
42.715 NB
42.753 NB
43.015 NB
42.870 NB
0.056 RT
0.102 LT
0.073 RT
0.102 RT
0.150 LT
0.362 LT
0.040 LT
0.382 LT
0.427 LT
0.432 RT
0.463 RT
0.495 RT
0.530 RT

0.176 CL
0.210 CL
0.226 CL
0.355 CL
0.370 CL
0.432 CL

0.167 RT (RAMP A)
0.179 RT (RAMP D)

0.103 LT
0.497 LT

0.145 RT (RAMP A)
0.145 RT (RAMP D)

0.282 LT BRIDGE MOUNTED

0.271 LT
0.306 RT

0.240 RT BRIDGE MOUNTED

0.078 RT (RAMP A)

0.084 RT (RAMP D)

0.160 LT (RAMP D)

0.211 LT
0.217 LT
0.364 RT
0.370 RT

42.992 SB

0.200 RT

0.370 LT
0.390 LT

LEGEND
[RET] - RETAIN
[R&S] - REMOVE AND SALVAGE

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

INTERCHANGE 5 EXISTING SIGNS

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020int05.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 20 OF 163

MODEL: Exist

REMOVING SIGNS
TYPE A: 85
TYPE B: 4
BRIDGE PLAQUE: 3

LEGEND
RET - RETAIN
R&S - REMOVE AND SALVAGE

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

MODEL: Exist

INTERCHANGE 6 EXISTING SIGNS	PROJECT NAME: ROYALTON-MIDDLESEX	
	PROJECT NUMBER: IMG SIGN(19)	
	FILE NAME: z09a020int06.dgn	PLOT DATE: 8/12/2009
	PROJECT LEADER: CRB	DRAWN BY: JBZ
	DESIGNED BY: BDB	CHECKED BY: DAM
	CLD REF. NO.: 09-0106	SHEET 21 OF 163

REMOVING SIGNS
TYPE A: 81
TYPE B: 4
BRIDGE PLAQUE: 1

50.020
MATCH LINE SEE SHEET 12
TO WILLIAMSTOWN
SOUTHBOUND I-89
50.023 SB
BRIDGE 37-S I-89
50.062 SB
SOUTH INTERSTATE 89
50.060 NB
EXIT 35 M.P.H.
50.123 NB
50.126 NB
EXIT 7
50.214
0.170 RT
0.080 RT
0.115 LT OVERHEAD
SOUTH INTERSTATE 89 White River
NORTH INTERSTATE 89 Montpelier Burlington
0.097 LT
SOUTH INTERSTATE 89
NORTH INTERSTATE 89
0.220 RT
0.166 RT
EAST TO VERMONT 62 302
0.200 RT
BARRE 5
AIRPORT 3
PARK AND RIDE
BERLIN CORNERS
0.233 RT
3 FOOD
PHONE
24 HR. GAS/DIESEL
1 LODGING
1 HOSPITAL
1 INFORMATION
0.178 LT
ONLY
0.213 LT
TURN SIGNAL REQUIRED BEFORE CHANGING LANES
PROHIBITED
0.268 LT & RT
0.304 RT
SPEED LIMIT 50
MATCH LINE SEE THIS SHEET
VT 62
RAMP A
RAMP B
RAMP C
RAMP D
0.022 RT
CURVE 35 M.P.H.
END VERMONT 62 0.000
0.255 RT
0.282
50.405 SB
ONE WAY
50.405 NB
ONE WAY
0.233 RT
0.310
MATCH LINE SEE THIS SHEET
0.160 RT
40 MPH
50.500 SB
50.605 SB
EXIT 7
50.606 SB
50.504 NB
5%
RET
MM 50.680
MATCH LINE SEE SHEET 12
TO MONTPELIER
NORTHBOUND I-89
0.370 RT
0.400 RT
EAST TO VERMONT 62 302
0.400 LT
MONTPELIER 4
BURLINGTON 39
WHITE RIVER JCT 50
VT 62
0.415 RT
ONLY ONLY
0.478 RT
B-B
PAINE TRPK N 141 PAINE TRPK N 141
RET
0.489 RT
ONLY
RET
0.494 RT
PROHIBITED
PAINE TURNPIKE
0.492 LT
B-B
PAINE TRPK N 141 PAINE TRPK N 141
RET
TO BARRE
0.429 LT
SPEED LIMIT 50
0.459 LT
PROHIBITED
0.470 LT
TO INTERSTATE 89
0.477 LT
EAST TO VERMONT 62 INTERSTATE 89
0.491 LT
0.468 CL
0.484 CL
A
B-B
0.140 – 0.245 LT (7)
(RAMP D)
B

LEGEND
RET - RETAIN
R&S - REMOVE AND SALVAGE

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

MODEL: Exist

INTERCHANGE 7 EXISTING SIGNS

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020int07.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 22 OF 163

REMOVING SIGNS
TYPE A: 76
TYPE B: 4
BRIDGE PLAQUE: 2

REMOVAL OF 2 SIGNS NOT SHOWN ON PLANS.
REPLACED WITH NEW: SEE SHEET 41L 2.0 EACH

52.840 SB
GROOVED BRIDGE AHEAD
RET

52.930 NB
52.970 SB
BRIDGE NO-41S I-89
52.930 NB
BRIDGE NO-41N I-89
52.930 NB

SOUTHBOUND I-89
NORTHBOUND I-89

52.780 MATCH LINE SEE SHEET 13
TO BARRE
TOWN OF BERLIN
CITY OF MONTPELIER

52.800
52.850 NB
52.855 NB
EXIT 8

52.900
53.000
53.100
53.200
MM 53.250
MATCH LINE SEE SHEET 13
TO MIDDLESEX

RAMP A
RAMP B
RAMP C
RAMP D

0.021 LT
EXIT 25 A.P.R.
MILE 53
0.311 RT
0.305 RT
YIELD
0.127 RT
25 MPH
0.115 RT
SPEED LIMIT 45
0.107 RT
0.096 LT
0.115 LT
RIGHT LANE MUST TURN RIGHT

53.178 SB
EXIT 8
53.179 SB
53.190 NB
SPEED LIMIT 65
53.230 NB
BRIDGES FREEZE BEFORE ROAD

0.102 LT OVERHEAD
INTERSTATE 89 SOUTH
White River Junction
INTERSTATE 89 NORTH
Burlington
RAMP 25 A.P.R.

0.157 LT
ONLY
0.197 LT
WHITE RIVER JCT 57
BURLINGTON 37
0.241 LT
SOUTH INTERSTATE 89
NORTH INTERSTATE 89

0.196 RT
MONTPELIER 1
ST JOHNSBURY 38
RAILROAD STATION 1
MONTPELIER JCT 1
PARK & RIDE LEFT LANE

0.231 RT
1 FOOD
1 PHONE
1 24 HR. GAS/DIESEL
1 LODGING
6 CAMPING
VISITOR CENTER

0.294 LT
YIELD
0.308 LT
0.323 LT
TO INTERSTATE 89
0.335 LT
STOP

0.278 RT
ONLY
0.339 RT
RAILROAD STATION 1
MONTPELIER JCT 1
0.341 RT
DIVIDED HIGHWAY
0.377 RT
SPEED LIMIT 45
0.377 LT

MONTPELIER ST. HWY.
MONTPELIER JCT. ST. HWY.
0.325 CL
0.341 LT
0.348 CL
B-B
TO MONTPELIER

0.021 RT
0.136 RT RAMP A
Ⓐ

0.052 LT
0.360 RT RAMP D
Ⓑ
14'-0"

52.787 – 52.901 NB (4)
Ⓒ

0.155 RT (RAMP D)
0.290 RT (RAMP D)
Ⓓ
30 MPH

53.063 NB
53.011 SB
Ⓔ
ONE WAY

52.925 NB
53.089 SB
Ⓕ

LEGEND
[RET] - RETAIN
[R&S] - REMOVE AND SALVAGE

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

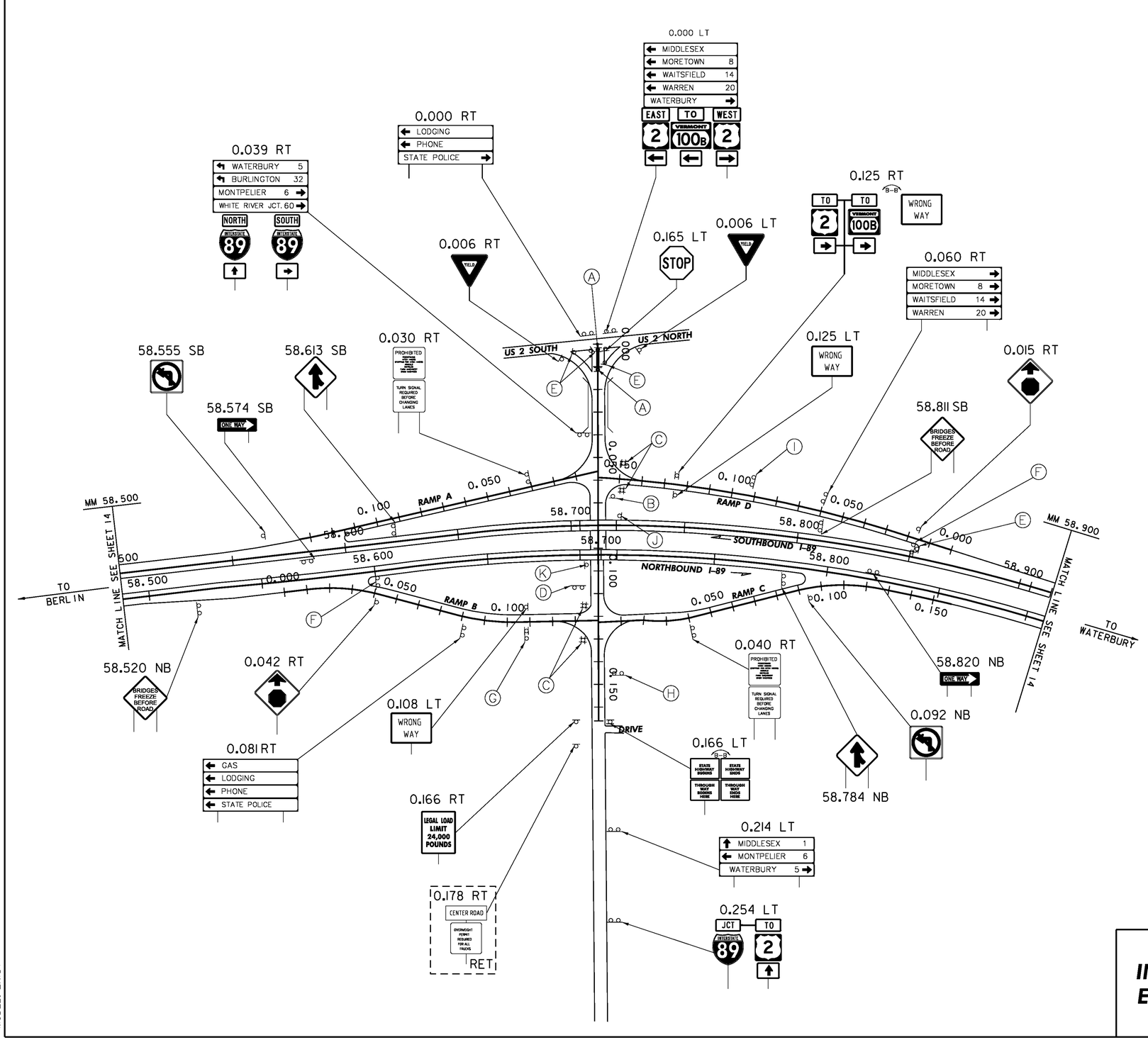
INTERCHANGE 8
EXISTING SIGNS

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

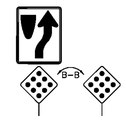
FILE NAME: z09a0201in108.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 23 OF 163

MODEL: Exist

REMOVING SIGNS
TYPE A: 131
TYPE B: 2
BRIDGE PLAQUE: 2



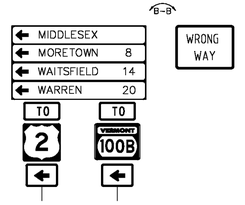
A — 0.006 CL, 0.013 CL



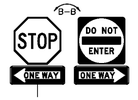
F — 58.600 NB, 58.847 SB

B — 0.064 LT

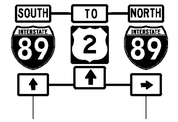
G — 0.108 RT (RAMP B)



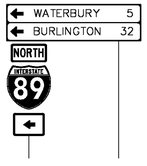
C — 0.135 LT & RT (RAMP B), 0.150 LT & RT (RAMP D)



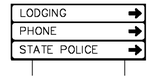
H — 0.146 LT



D — 0.106 RT



I — 0.093 RT (RAMP D)



E — 0.006 RT, 0.007 RT, 0.011 LT

J — 58.713 SB

K — 58.697 NB

LEGEND
[RET] - RETAIN
[R&S] - REMOVE AND SALVAGE

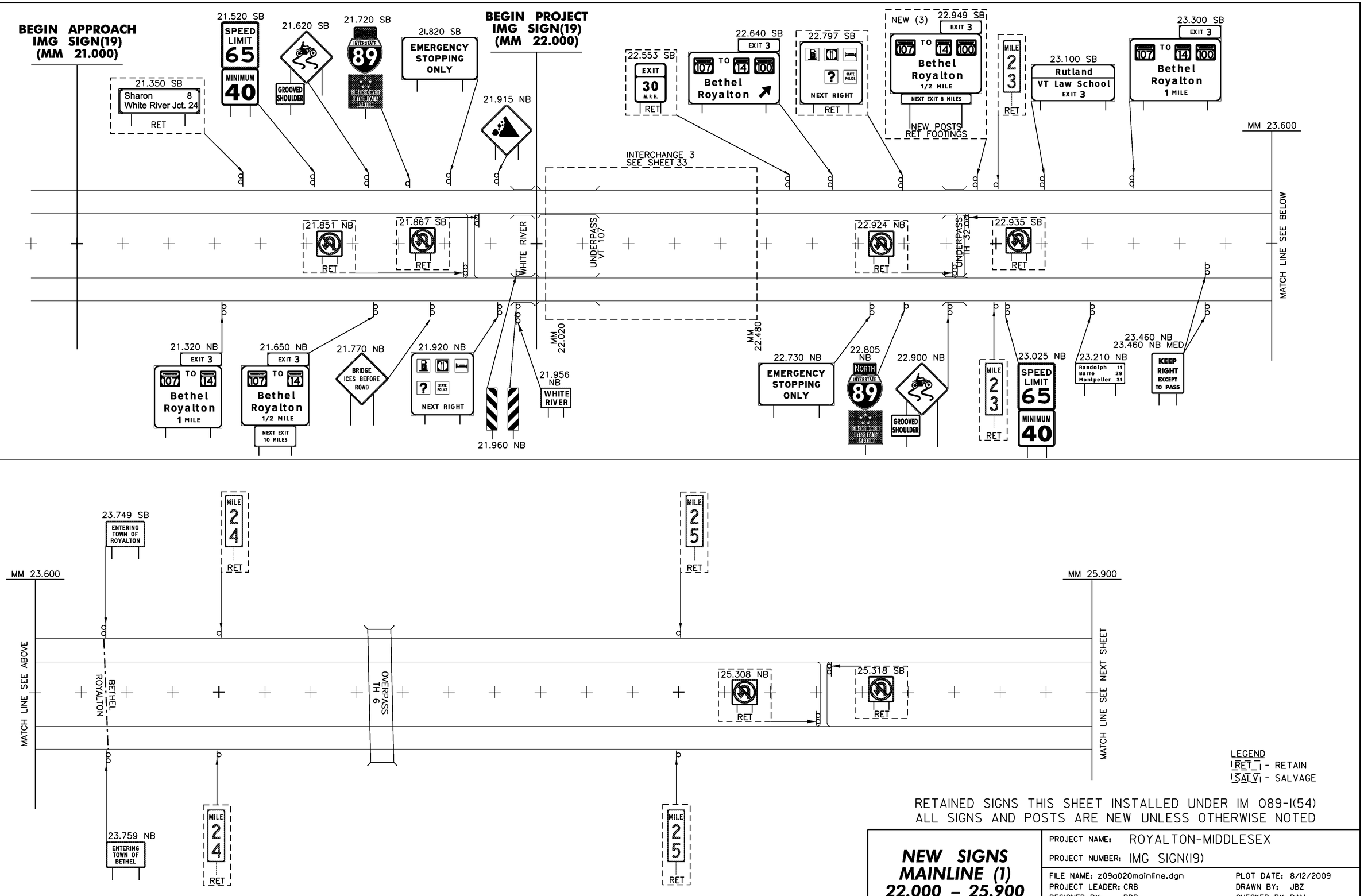
ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

INTERCHANGE 9 EXISTING SIGNS

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a0201nt09.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 24 OF 163

MODEL: Exist



LEGEND
RET - RETAIN
SALV - SALVAGE

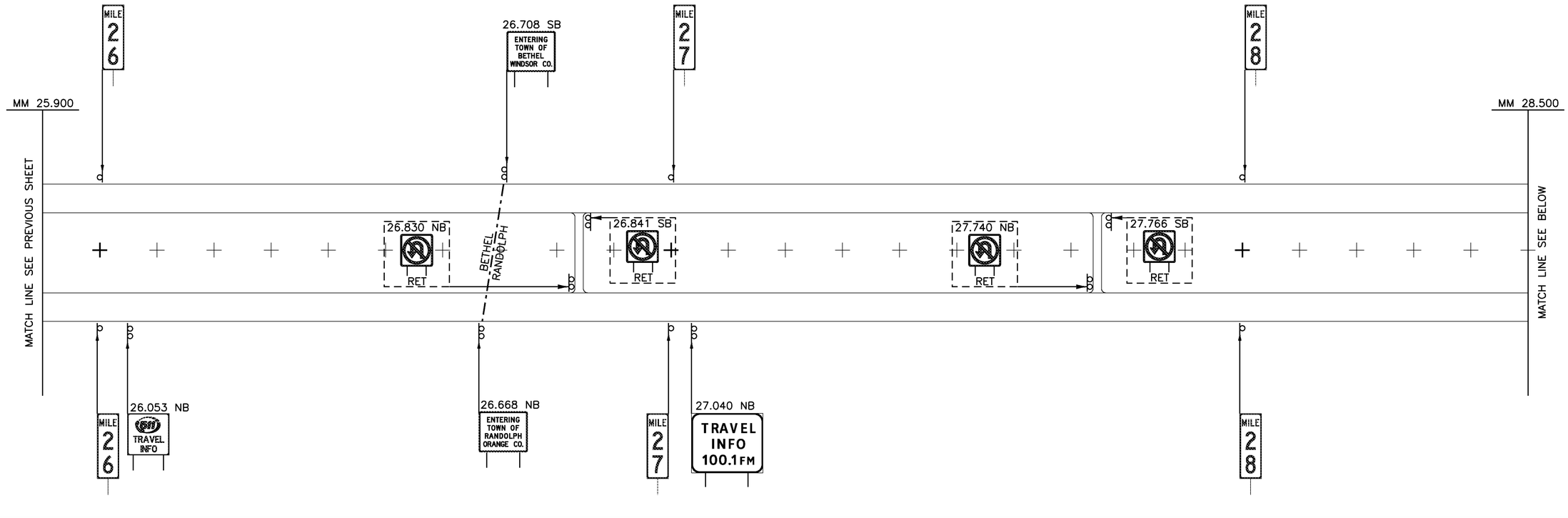
RETAINED SIGNS THIS SHEET INSTALLED UNDER IM 089-1(54)
ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

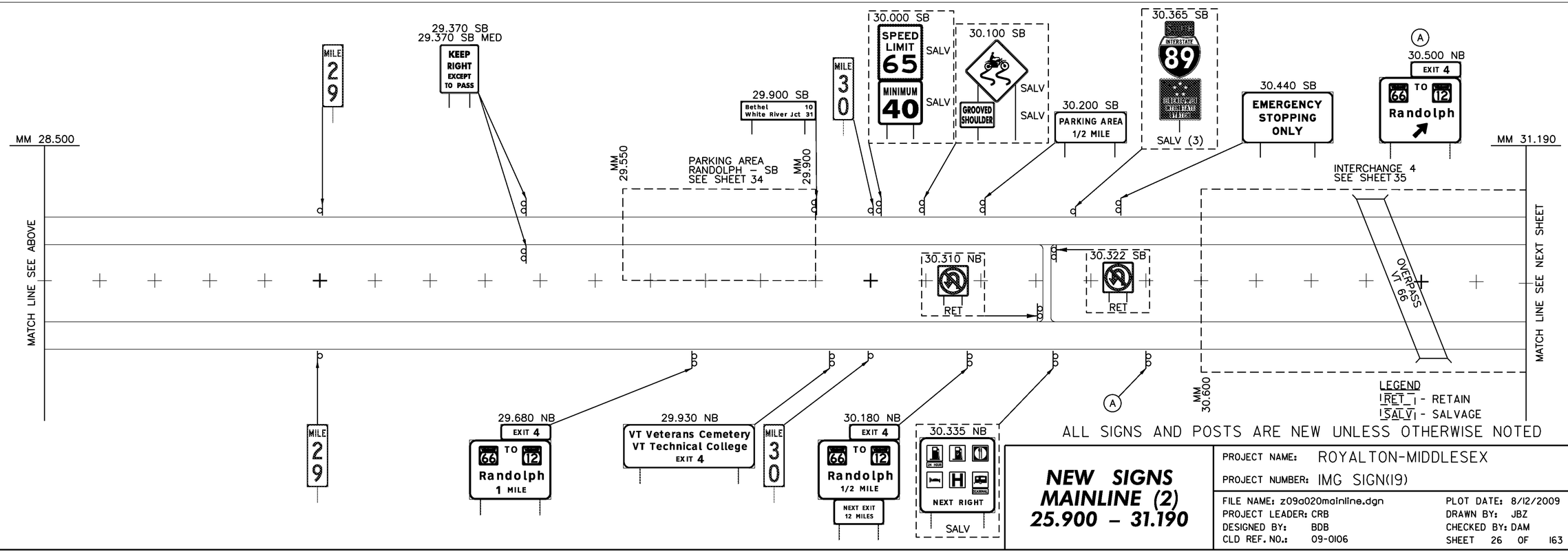
NEW SIGNS MAINLINE (1) 22.000 – 25.900

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 25 OF 163

MODEL: 01-New



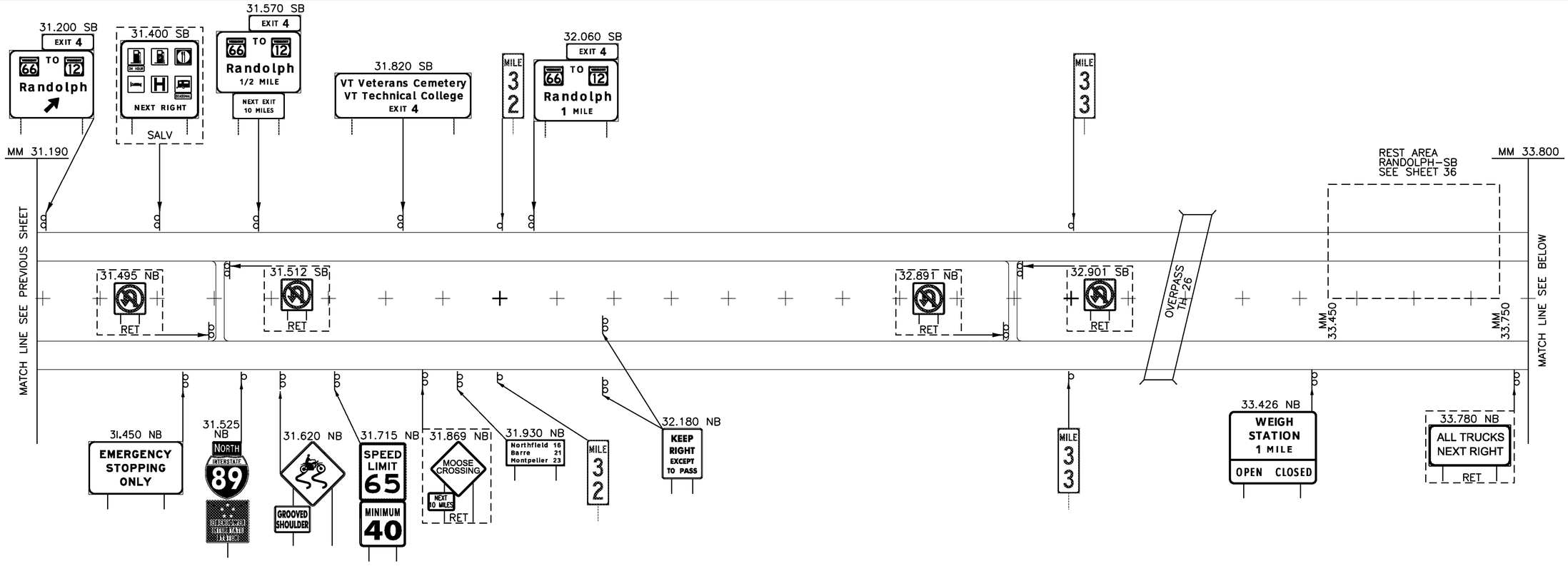


NEW SIGNS MAINLINE (2)
25.900 – 31.190

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 26 OF 163

MODEL: 02-New

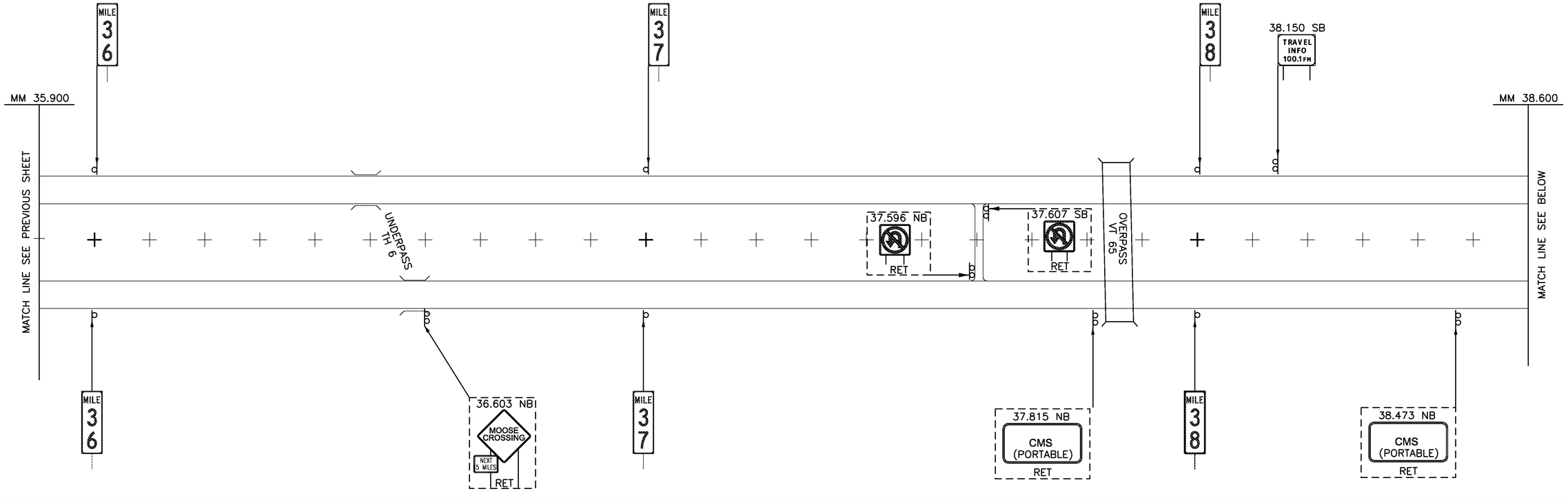


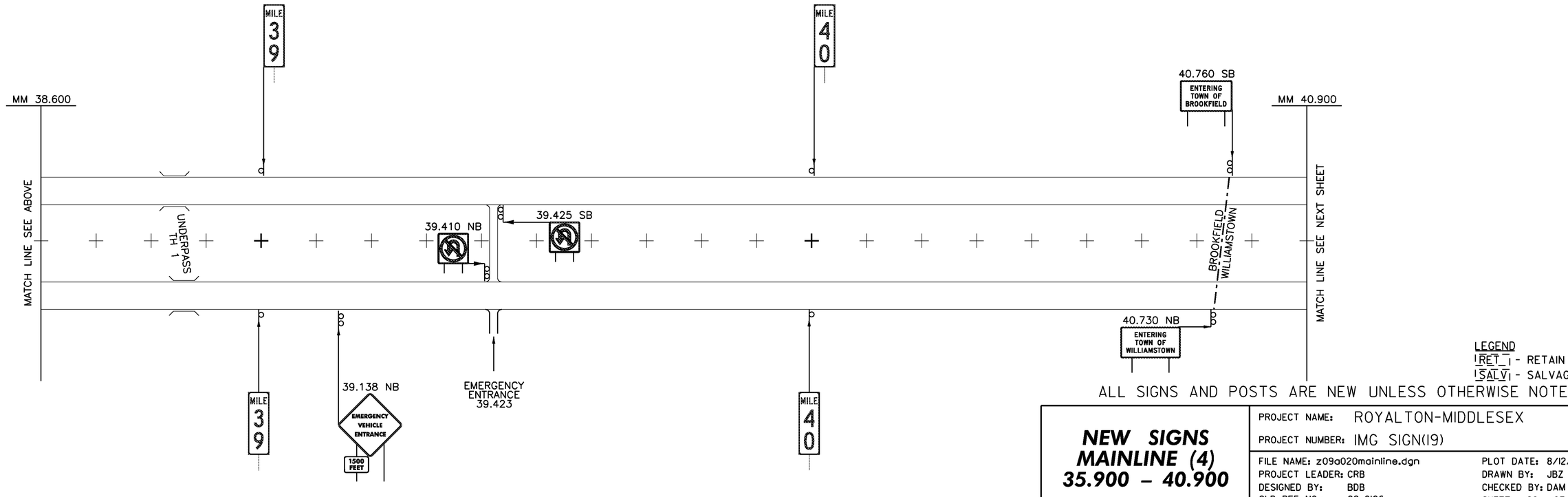
NEW SIGNS MAINLINE (3) 31.190 – 35.900

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 27 OF 163

MODEL: 03-New





LEGEND
RET - RETAIN
SALV - SALVAGE

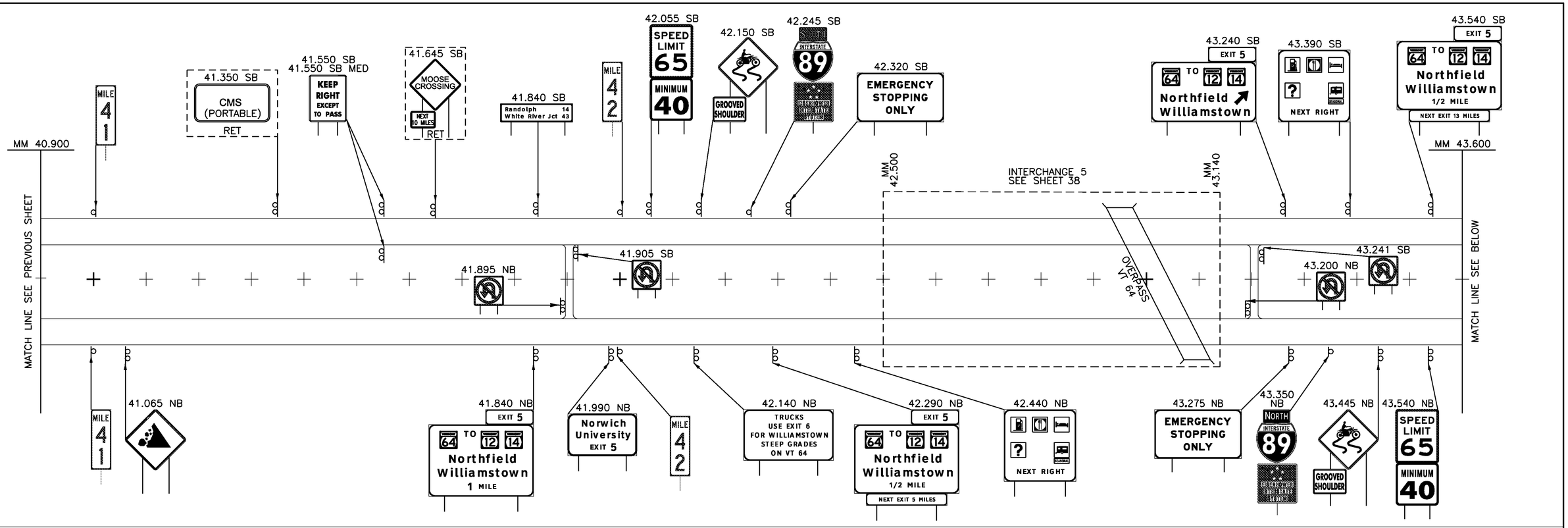
ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

NEW SIGNS MAINLINE (4) 35.900 – 40.900

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 28 OF 163

MODEL: 04-New

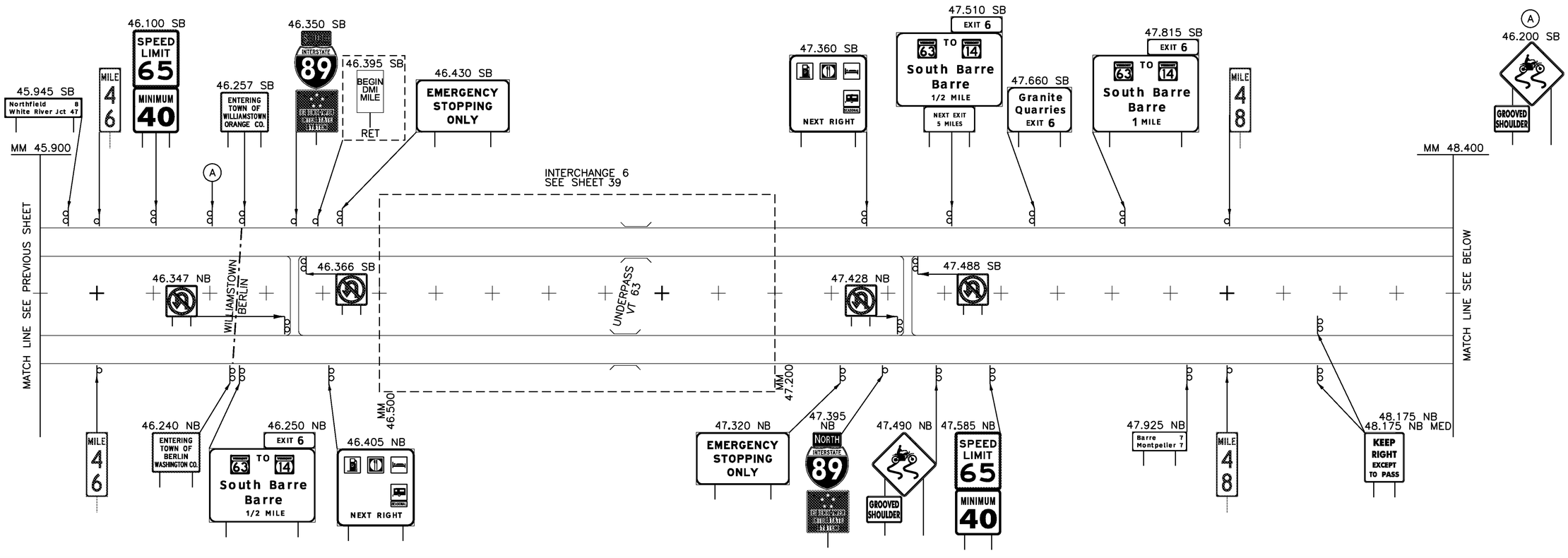


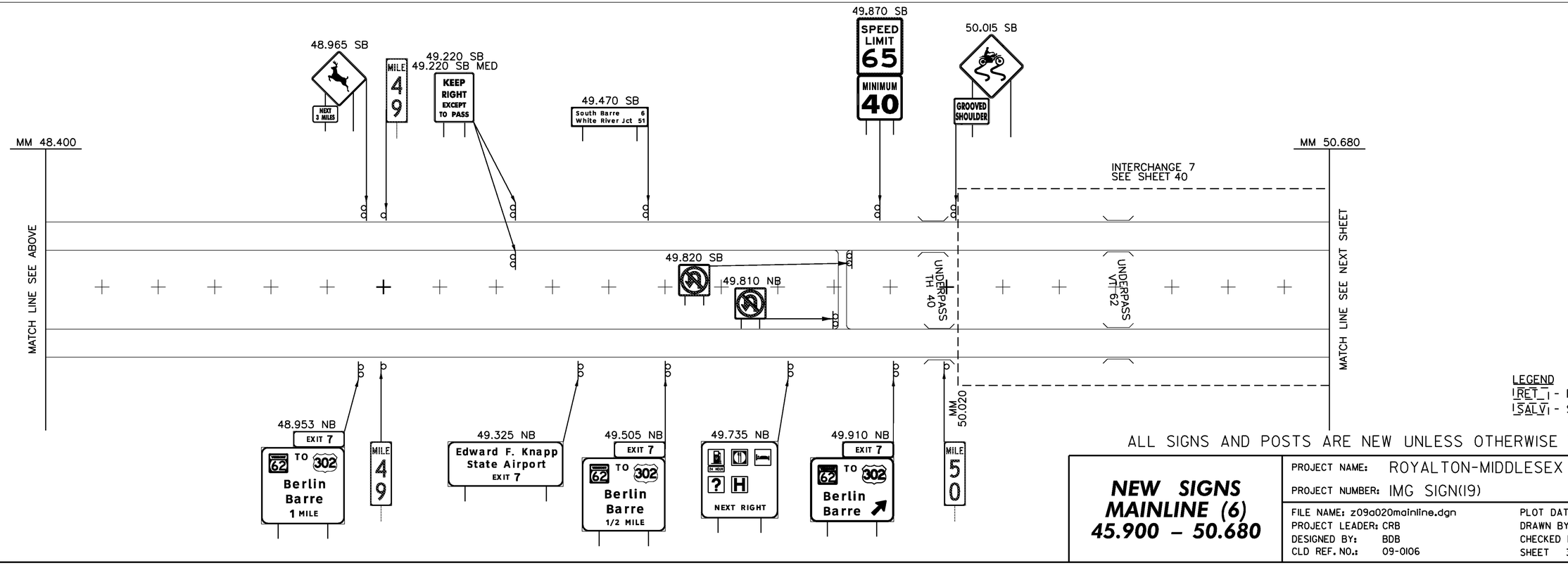
NEW SIGNS MAINLINE (5) 40.900 – 45.900

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 29 OF 163

MODEL: 05-New





NEW SIGNS MAINLINE (6)
45.900 – 50.680

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 30 OF 163

MODEL: 06-New

MM 50.680

MATCH LINE SEE PREVIOUS SHEET

50.930 SB
EXIT 7
62 TO 302
Berlin
Barre
NEXT RIGHT

MILE 5 1

51.080 SB
NEXT RIGHT

51.230 SB
EXIT 7
62 TO 302
Berlin
Barre
1/2 MILE

51.380 SB
Edward F. Knapp
State Airport
EXIT 7

51.615 SB
EXIT 7
62 TO 302
Berlin
Barre
1 MILE

MILE 5 2

52.105 SB
52.105 SB MED
KEEP RIGHT EXCEPT TO PASS

52.179 SB
ENTERING TOWN OF BERLIN

52.220 SB
Barre
NEXT 2 EXITS

52.355 SB
Barre 6
White River Jct 54

52.500 SB
SPEED LIMIT
65
MINIMUM
40

52.590 SB
GROOVED SHOULDER

52.673 SB
INTERSTATE
89
BE PREPARED FOR SUDDEN STOPS AT NIGHT

52.756 SB
BRIDGE ICES BEFORE ROAD

MM 53.250

INTERCHANGE 8
SEE SHEET 41

UNDERPASS
MONTPELIER S.H.

MATCH LINE SEE BELOW

MM 52.780

50.732 NB
50.741 SB
50.848 NB
53.350 SB
A

51.540 NB
54.304 SB
B
Welcome to
Montpelier
Capital of
Vermont

52.235 NB
EXIT 8
C
2
Montpelier
1/2 MILE
NEXT EXIT 6 MILES

50.856 SB

52.381 NB

52.389 SB

OVERPASS
TH 18

BERLIN
MONTPELIER

MONTPELIER
BERLIN
OVERPASS
AT 12

BERLIN
MONTPELIER

50.730 NB
NORTH
INTERSTATE
89
BE PREPARED FOR SUDDEN STOPS AT NIGHT

50.775 NB
CMS
(PORTABLE)

50.910 NB
GROOVED SHOULDER

50.990 NB
SPEED LIMIT
65
MINIMUM
40

MILE 5 1

51.075 NB
Montpelier 3
Burlington 39

51.325 NB
51.325 NB MED
KEEP RIGHT EXCEPT TO PASS

51.720 NB
EXIT 8
2
Montpelier
1 MILE
VISITOR CENTER

51.860 NB

51.960 NB
51.960 NB MED
RET

MILE 5 2

52.140 NB
GROOVED BRIDGE AHEAD

52.179 NB
ENTERING CITY OF MONTPELIER

52.340 NB
BRIDGE ICES BEFORE ROAD

52.440 NB
NEXT RIGHT

52.595 NB
EXIT 8
2
Montpelier

52.690 NB
EXIT
40
M.P.H.

52.288 NB
52.390 NB
52.470 NB
52.500 NB
52.555 NB
D

52.755 NB
53.620 SB
53.647 SB
53.682 SB
53.710 SB
53.745 SB
53.787 SB
53.834 SB
53.863 SB
E

MM 53.250

MATCH LINE SEE ABOVE

53.350 SB
EXIT 8
2 TO 12
Montpelier
St. Johnsbury

53.540 SB

53.550 SB
NEXT RIGHT

53.695 SB
BRIDGE ICES BEFORE ROAD

53.850 SB
EXIT 8
2 TO 12
Montpelier
St. Johnsbury
1/2 MILE
VISITOR CENTER

MILE 5 4

54.049 SB
54.049 SB MED

54.102 SB
ENTERING CITY OF MONTPELIER

54.150 SB
EXIT 8
2 TO 12
Montpelier
St. Johnsbury
1 MILE

54.435 SB
CMS
(PORTABLE)

54.807 SB

54.925 SB
BRIDGE ICES BEFORE ROAD

MILE 5 5

55.049 SB
55.049 SB MED
BUMP
RET

55.259 SB
TRAVEL INFO

53.340 NB
53.540 SB
54.785 NB
54.807 SB
F

54.375 NB
G
MOOSE
NEXT 4 MILES

MM 55.900

MATCH LINE SEE NEXT SHEET

50.824 NB
H
5%
NEXT 2 MILES
RET

50.824 NB
(FLASHING BEACON)
I
5%
NEXT 2 MILES
RET

UNDERPASS
US 2

MONTPELIER
MIDDLESEX

UNDERPASS
US 2

53.320 NB

54.897 NB

54.906 SB

53.340 NB

53.525 NB
EMERGENCY
STOPPING
ONLY

53.600 NB
NORTH
INTERSTATE
89
BE PREPARED FOR SUDDEN STOPS AT NIGHT

53.695 NB
GROOVED SHOULDER

53.790 NB
SPEED LIMIT
65
MINIMUM
40

53.880 NB
Middlesex 5
Burlington 36

53.960 NB
NEXT 1 MILE

MILE 5 4

54.102 NB
ENTERING TOWN OF MIDDLESEX

54.130 NB
54.130 NB MED
KEEP RIGHT EXCEPT TO PASS

54.690 NB
BRIDGE ICES BEFORE ROAD

54.785 NB

54.965 NB

MILE 5 5

55.550 NB
BEGIN DMI MILE
RET

LEGEND
RET - RETAIN
SALV - SALVAGE

ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

NEW SIGNS MAINLINE (7)
50.680 – 55.900

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 31 OF 163

MODEL: 07-New

MM 55.900

MATCH LINE SEE PREVIOUS SHEET

MILE 56

56.040 NB

56.048 SB

OVERPASS US 2

56.450 NB
56.450 NB MED

56.550 NB
END DMI MILE
RET

MILE 57

57.600 SB
57.600 SB MED
KEEP RIGHT EXCEPT TO PASS

57.738 NB

57.850 SB
Montpelier 6
White River Jct 59

57.330 NB
EXIT 9
2 TO 100B
Middlesex
Moretown
1 MILE

57.752 SB

57.800 NB
Waitsfield
Warren
EXIT 9

57.955 NB
EXIT 9
2 TO 100B
Middlesex
Moretown
1/2 MILE
NEXT EXIT 6 MILES

57.950 SB
MOOSE
NEXT 4 MILES

MILE 58

58.070 SB
SPEED LIMIT 65
MINIMUM 40

58.160 SB
GROOVED SHOULDER

58.130 NB
CAR POOL INFO 1-800-685-RIDE

MM 58.300

MATCH LINE SEE BELOW

A

58.255 SB
INTERSTATE 89

58.330 SB
EMERGENCY STOPPING ONLY

MM 58.300

MATCH LINE SEE ABOVE

INTERCHANGE 9
SEE SHEET 42

UNDERPASS
MIDDLESEX S.H.

58.339 SB

58.330 NB

MM 58.500

58.455 NB
EXIT 9
2 TO 100B
Middlesex
Moretown
STATE POLICE

MILE 59

59.000 SB
EXIT 9
2 TO 100B
Middlesex
Moretown
STATE POLICE

59.300 SB
EXIT 9
2 TO 100B
Middlesex
Moretown
1/2 MILE
NEXT EXIT 7 MILES

59.870 SB
EXIT 9
2 TO 100B
Middlesex
Moretown
1 MILE

MILE 60

MM 58.900

59.010 NB
EMERGENCY STOPPING ONLY

59.075 NB
NORTH INTERSTATE 89

59.160 NB
GROOVED SHOULDER

59.265 NB
SPEED LIMIT 65
MINIMUM 40

59.490 NB

59.507 SB

59.550 NB
Waterbury 5
Burlington 31

59.800 NB
59.800 NB MED
KEEP RIGHT EXCEPT TO PASS

END PROJECT
IMG SIGN(19)
(MM 60.880 NB)

60.880 SB
ENTERING TOWN OF MIDDLESEX

MIDDLESEX
WATERBURY

60.880 NB
ENTERING TOWN OF WATERBURY

LEGEND
RET - RETAIN
SALV - SALVAGE

ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

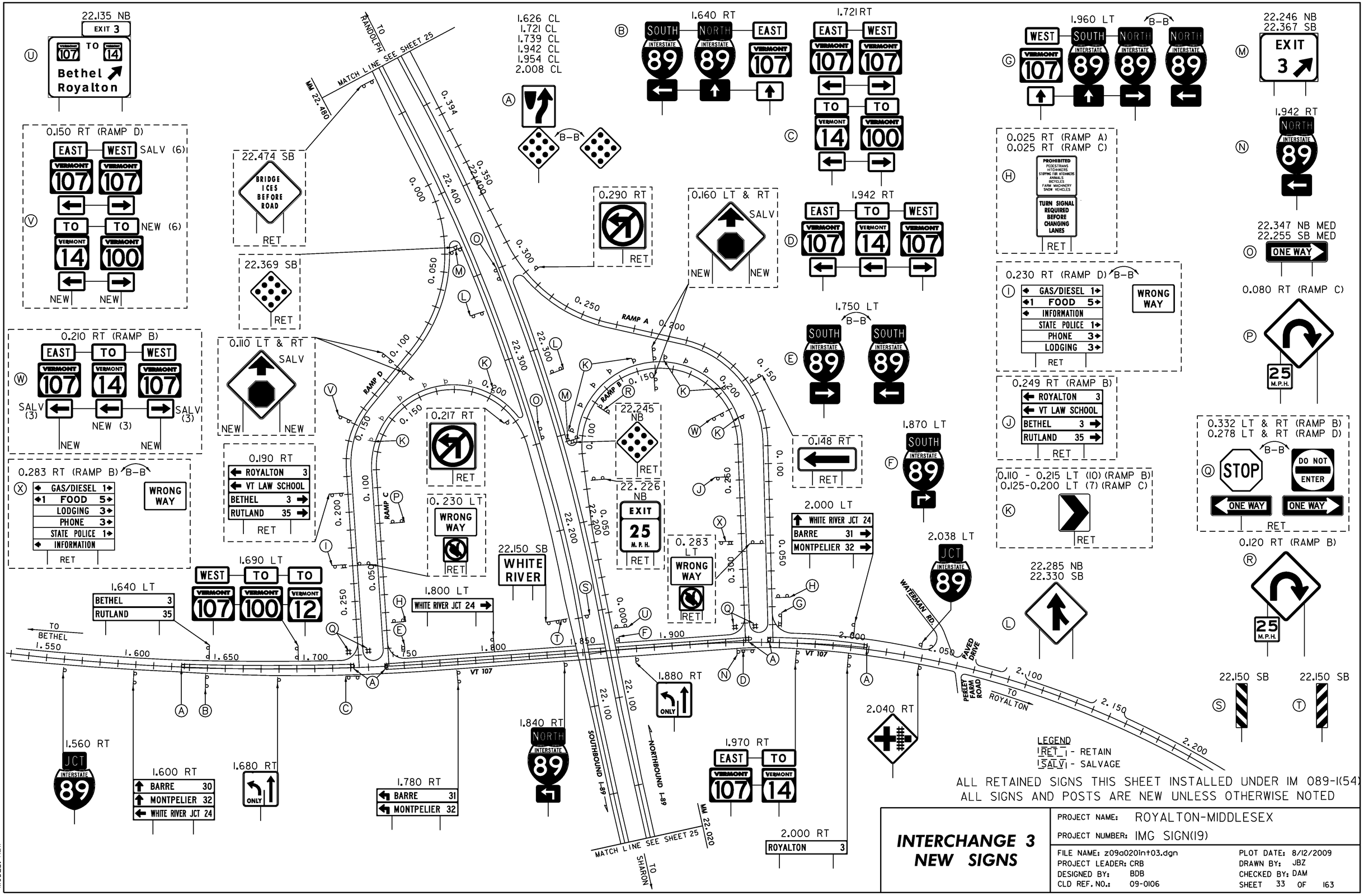
NEW SIGNS
MAINLINE (8)
55.900 – 60.880

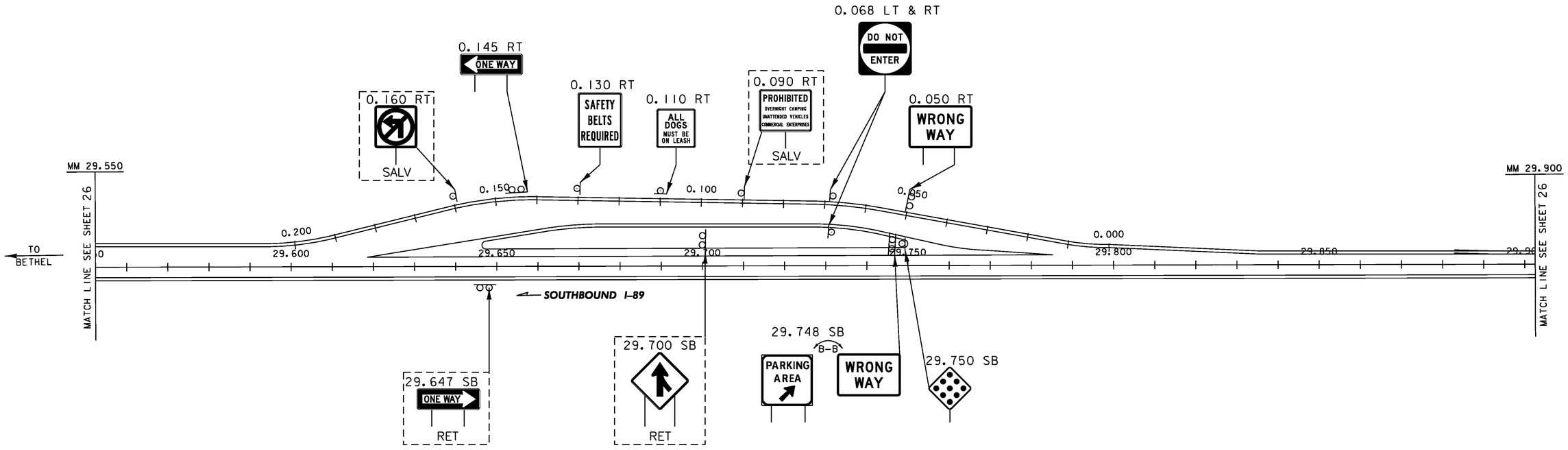
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020mainline.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 32 OF 163

MODEL: 08-New


22.135 NB
EXIT 3
TO
VERMONT 107
VERMONT 14
Bethel
Royalton
0.150 RT (RAMP D)
EAST
WEST
SALV (6)
VERMONT 107
VERMONT 107
TO
TO
NEW (6)
VERMONT 14
VERMONT 100
NEW
NEW
0.210 RT (RAMP B)
EAST
TO
WEST
VERMONT 107
VERMONT 14
VERMONT 107
SALV (3)
NEW (3)
SALV (3)
NEW
NEW
0.283 RT (RAMP B) B-B
GAS/DIESEL 1
FOOD 5
LODGING 3
PHONE 3
STATE POLICE 1
INFORMATION
RET
WRONG WAY
1.690 LT
WEST
TO
TO
VERMONT 107
VERMONT 100
VERMONT 12
1.640 LT
BETHEL 3
RUTLAND 35
TO BETHEL
1.560 RT
JCT
INTERSTATE 89
1.600 RT
BARRE 30
MONTPELIER 32
WHITE RIVER JCT 24
1.680 RT
ONLY
1.780 RT
BARRE 31
MONTPELIER 32
1.840 RT
NORTH
INTERSTATE 89
1.880 RT
ONLY
1.970 RT
EAST
TO
VERMONT 107
VERMONT 14
2.000 RT
ROYALTON 3
2.040 RT
TO RANDOLPH
MATCH LINE SEE SHEET 25
MM 22.480
22.474 SB
BRIDGE ICES BEFORE ROAD
RET
22.369 SB
RET
0.110 LT & RT
SALV
NEW
NEW
0.190 RT
ROYALTON 3
VT LAW SCHOOL
BETHEL 3
RUTLAND 35
RET
1.626 CL
1.721 CL
1.739 CL
1.942 CL
1.954 CL
2.008 CL
0.290 RT
RET
0.160 LT & RT
SALV
NEW
NEW
0.217 RT
RET
0.230 LT
WRONG WAY
RET
22.150 SB
WHITE RIVER
1.800 LT
WHITE RIVER JCT 24
22.245 NB
RET
22.226 NB
EXIT 25 M.P.H.
RET
0.283 LT
WRONG WAY
RET
0.148 RT
RET
1.640 RT
SOUTH
NORTH
EAST
INTERSTATE 89
INTERSTATE 89
VERMONT 107
1.721 RT
EAST
WEST
VERMONT 107
VERMONT 107
TO
TO
VERMONT 14
VERMONT 100
1.942 RT
EAST
TO
WEST
VERMONT 107
VERMONT 14
VERMONT 107
1.750 LT
B-B
SOUTH
SOUTH
INTERSTATE 89
INTERSTATE 89
1.870 LT
SOUTH
INTERSTATE 89
2.000 LT
WHITE RIVER JCT 24
BARRE 31
MONTPELIER 32
2.038 LT
JCT
INTERSTATE 89
WATERMAN RD.
0.000
0.050
0.100
0.150
0.200
0.250
0.300
0.350
0.394
22.400
22.300
22.200
22.100
RAMP A
RAMP B
RAMP C
RAMP D
1.550
1.600
1.650
1.700
1.750
1.800
1.850
1.900
2.000
2.050
2.100
2.150
2.200
VT 107
SOUTHBOUND I-89
NORTHBOUND I-89
MATCH LINE SEE SHEET 25
MM 22.020
TO SHARON
FAVED DRIVE
PERLEY FARM ROAD
TO ROYALTON
1.960 LT B-B
WEST
SOUTH
NORTH
NORTH
VERMONT 107
INTERSTATE 89
INTERSTATE 89
INTERSTATE 89
0.025 RT (RAMP A)
0.025 RT (RAMP C)
PROHIBITED
PEDESTRIANS
HITCHHIKERS
STOPPING FOR HITCHHIKERS
ANIMALS
BICYCLES
FARM MACHINERY
SNOW VEHICLES
TURN SIGNAL REQUIRED BEFORE CHANGING LANES
RET
0.230 RT (RAMP D) B-B
GAS/DIESEL 1
FOOD 5
INFORMATION
STATE POLICE 1
PHONE 3
LODGING 3
RET
WRONG WAY
0.249 RT (RAMP B)
ROYALTON 3
VT LAW SCHOOL
BETHEL 3
RUTLAND 35
RET
0.110 - 0.215 LT (10) (RAMP B)
0.125-0.200 LT (7) (RAMP C)
RET
22.285 NB
22.330 SB
22.246 NB
22.367 SB
EXIT 3
1.942 RT
NORTH
INTERSTATE 89
22.347 NB MED
22.255 SB MED
ONE WAY
0.080 RT (RAMP C)
25 M.P.H.
0.332 LT & RT (RAMP B)
0.278 LT & RT (RAMP D)
B-B
STOP
DO NOT ENTER
ONE WAY
ONE WAY
RET
0.120 RT (RAMP B)
25 M.P.H.
22.150 SB
22.150 SB
LEGEND
RET - RETAIN
SALV - SALVAGE
ALL RETAINED SIGNS THIS SHEET INSTALLED UNDER IM 089-1(54)
ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED
INTERCHANGE 3
NEW SIGNS
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)
FILE NAME: z09a020int03.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 33 OF 163
MODEL: NEW



LEGEND
[RET] - RETAIN
[SALV] - SALVAGE

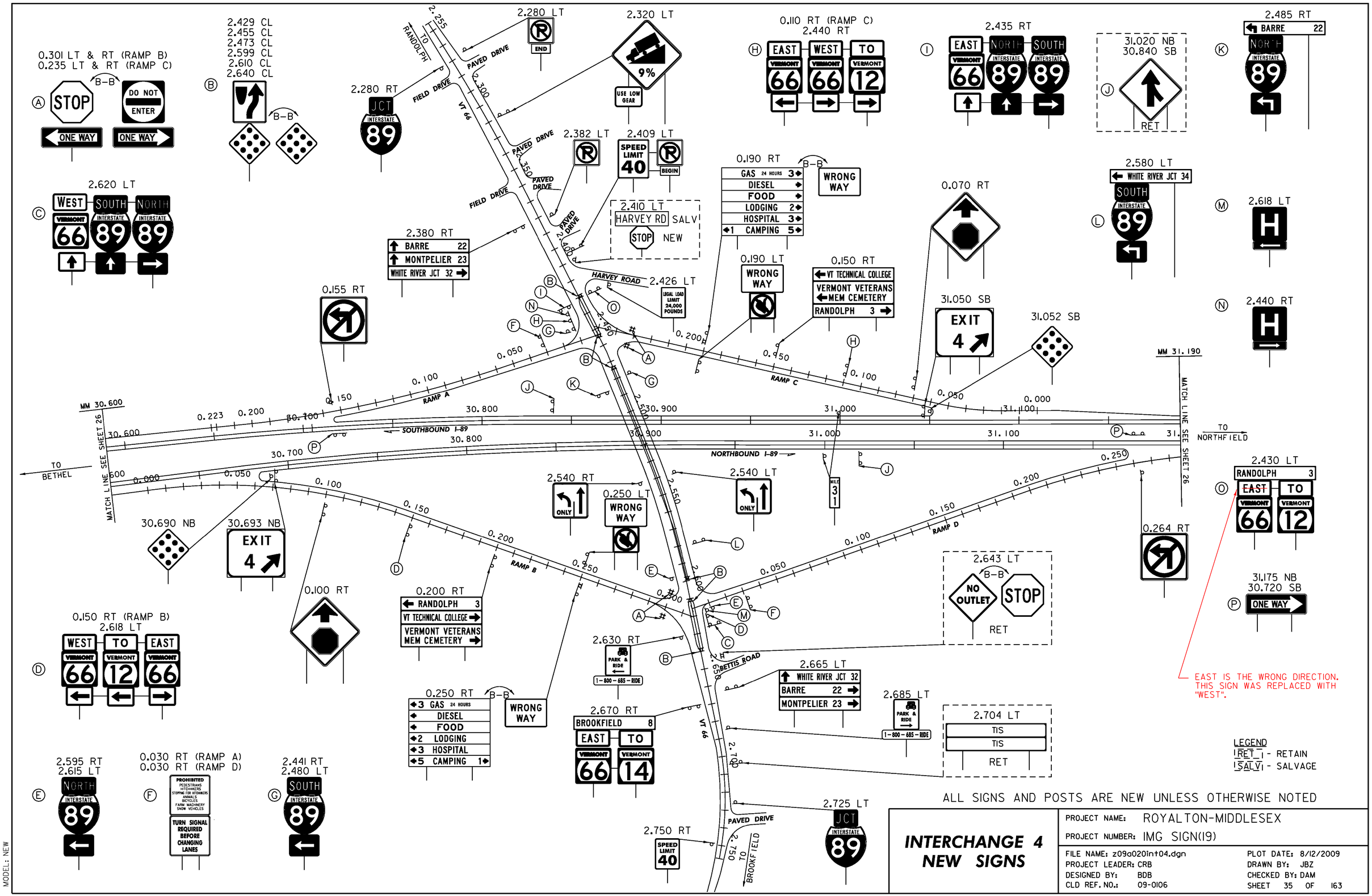
ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

PARKING AREA
RANDOLPH – SB
NEW SIGNS
MM 29.675

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020rest-SB(29_70).dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 34 OF 163

MODEL: NEW



ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

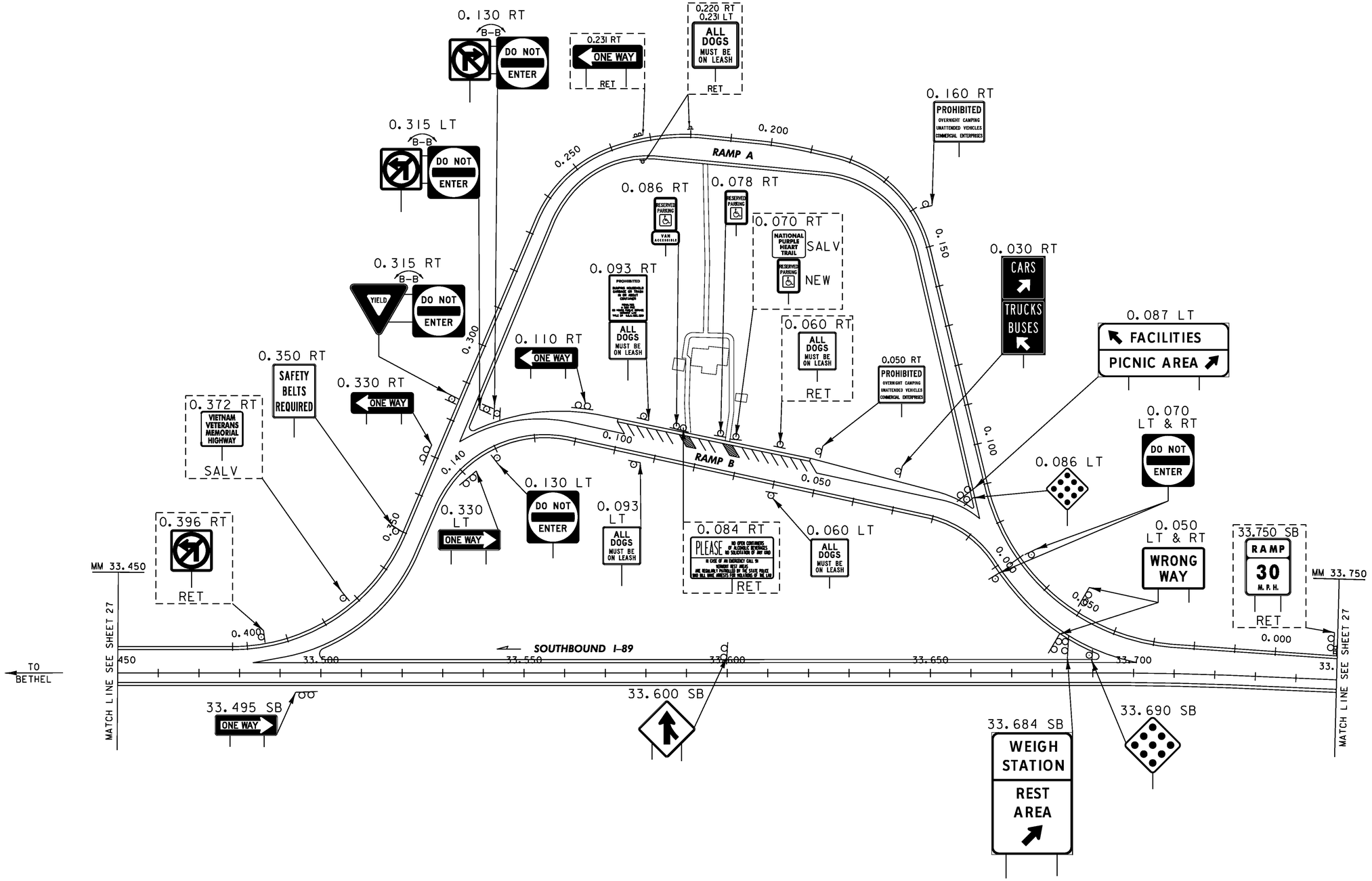
INTERCHANGE 4 NEW SIGNS

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a0201nt04.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 35 OF 163

MODEL: NEW



LEGEND
[RET] - RETAIN
[SALV] - SALVAGE

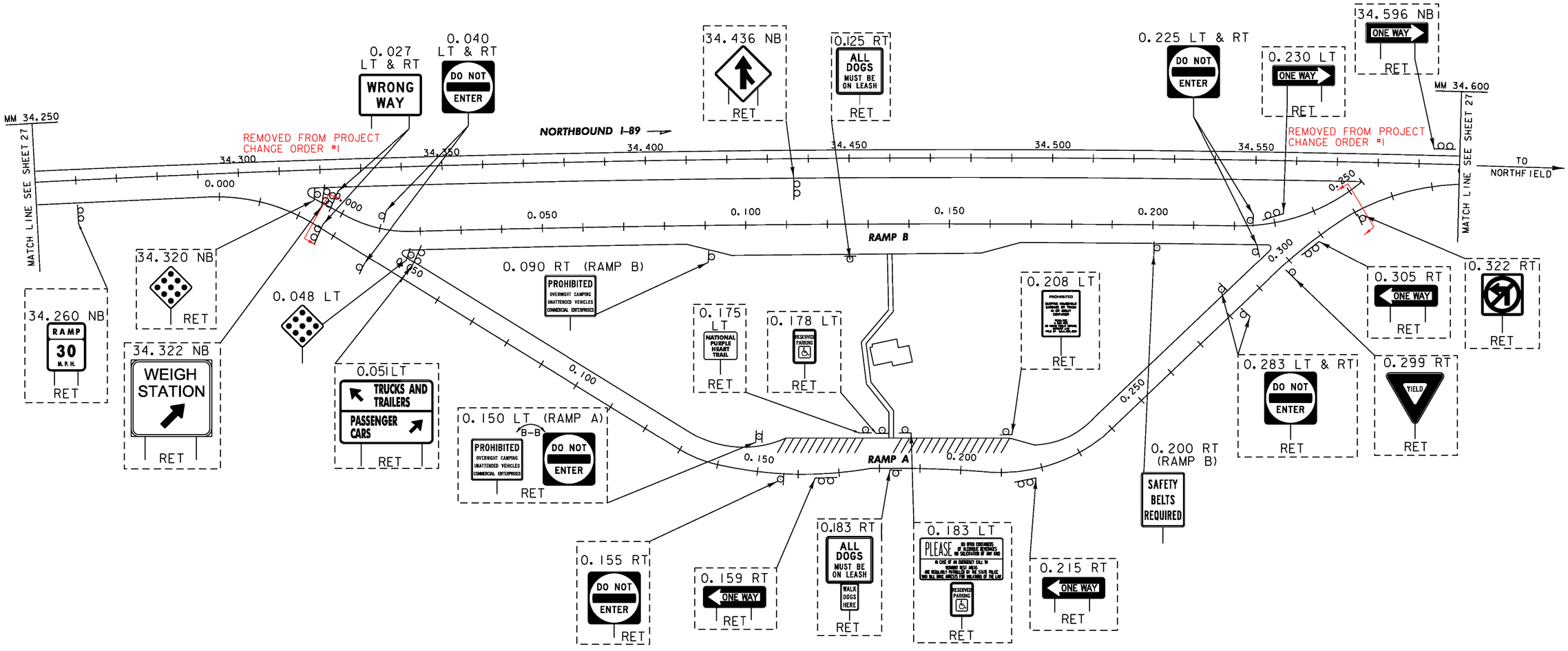
ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

REST AREA
RANDOLPH – SB
NEW SIGNS
MM 33.600

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020rest-SB(34).dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 36 OF 163

MODEL: NEW



LEGEND
[RET] - RETAIN
[SALV] - SALVAGE

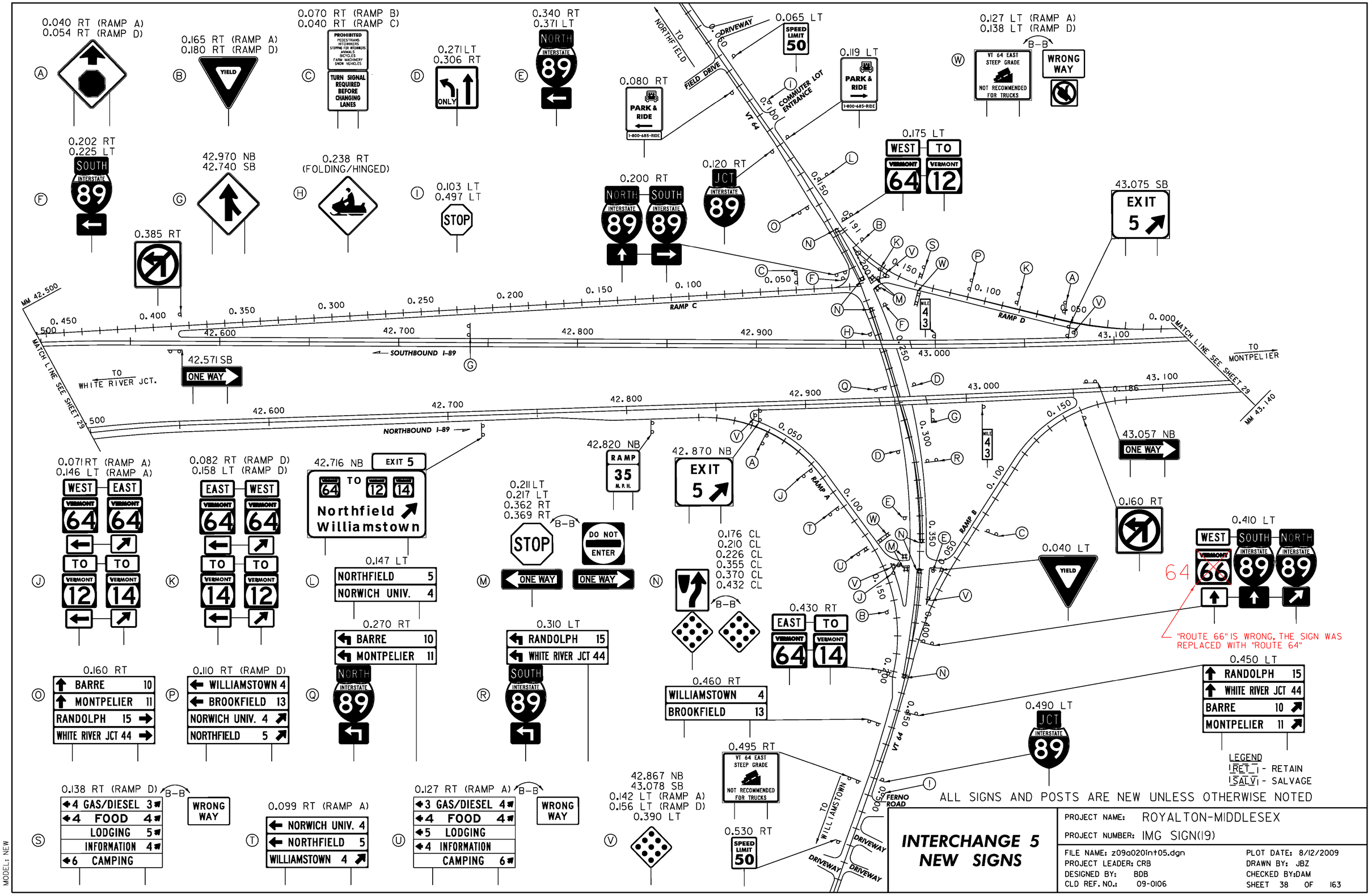
ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

REST AREA
RANDOLPH – NB
NEW SIGNS
MM 34.450

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020rest-NB(34).dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 37 OF 163

MODEL: NEW

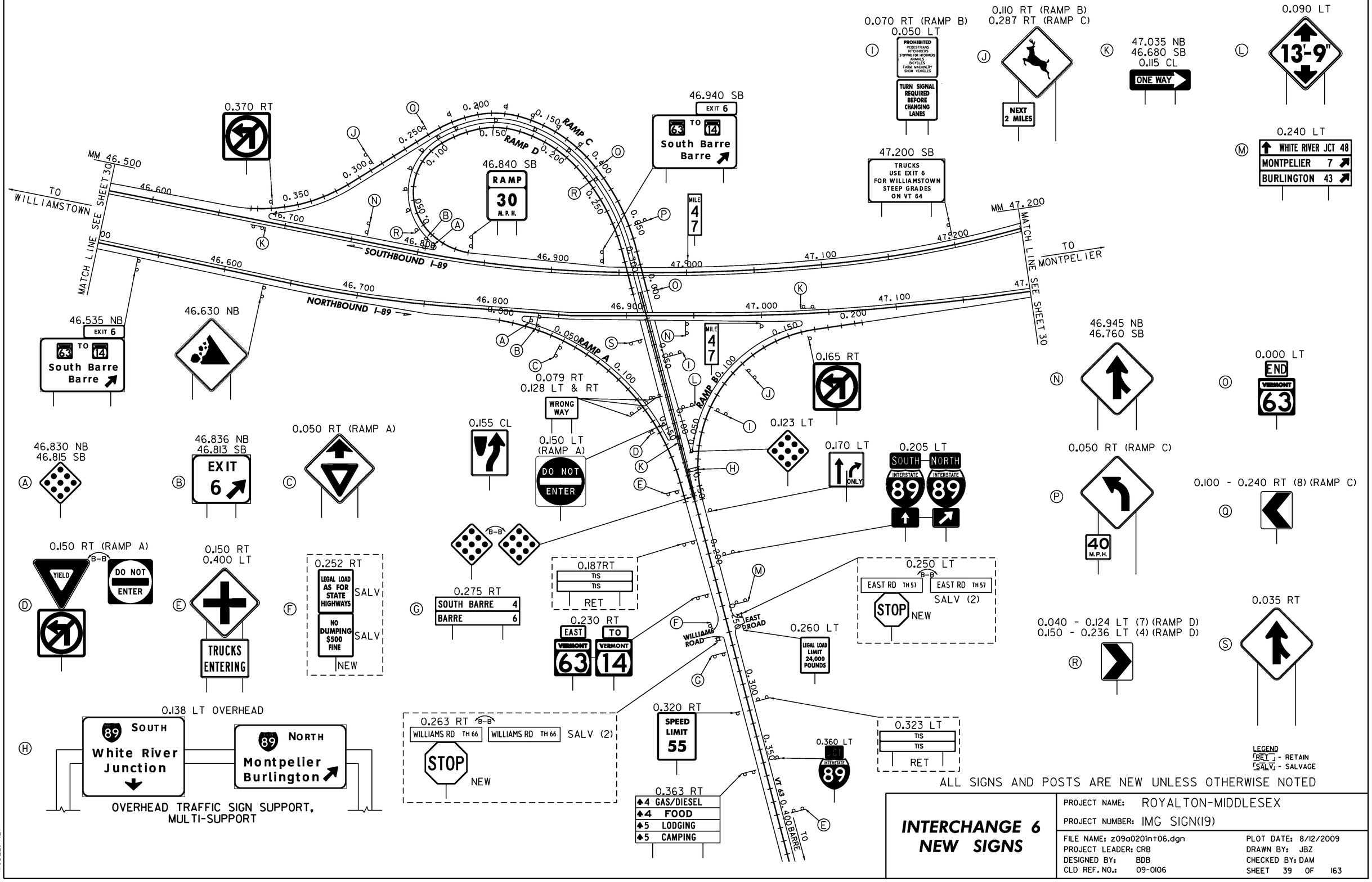


INTERCHANGE 5 NEW SIGNS

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020int05.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 38 OF 163

MODEL: NEW



INTERCHANGE 6 NEW SIGNS

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a0201nt06.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 39 OF 163

MODEL: NEW

0.468 CL
0.484 CL

Ⓐ

Ⓑ
0.478 RT
0.492 LT
B–B
PAINE TRPK N TH1 | PAINE TRPK N TH1
RET

Ⓒ 0.475 LT
TO
INTERSTATE 89

Ⓓ 0.230 LT
SOUTH | NORTH
INTERSTATE 89 | INTERSTATE 89

Ⓔ 0.260 RT
GAS/DIESEL 24 HOURS
3 FOOD
1 LODGING
1 INFORMATION
1 HOSPITAL
H

Ⓕ 0.220 RT
AIRPORT 3
BARRE 5
BERLIN CORNERS
PARK & RIDE

Ⓖ 0.115 LT OVERHEAD
SOUTH
White River Junction
NORTH
Montpelier
Burlington
OVERHEAD TRAFFIC SIGN SUPPORT, MULTI-SUPPORT

0.150 RT
40 M.P.H.

50.110 SB
SOUTH
INTERSTATE 89
EISENHOWER INTERSTATE SYSTEM

50.185 SB
EMERGENCY STOPPING ONLY

50.605 SB
EXIT 7

50.606 SB

MM 50.680

50.020
SEE SHEET 30 MATCH LINE
TO WILLIAMSTOWN

SOUTHBOUND I-89
50.100
50.200
50.300
50.400
50.500
50.600
NORTHBOUND I-89
TO MONTPELIER

RAMP D
RAMP C
RAMP A
RAMP B

0.300 0.250 0.200 0.150 0.100 0.050 0.000
0.350 0.400 0.450
0.282
0.310

50.060 NB
RAMP
35 M.P.H.

50.123 NB

50.126 NB
EXIT 7

0.050 RT

0.170 RT

0.100 LT

0.220 RT

0.320 RT
SPEED LIMIT 50

0.350 RT

0.350 LT
JCT
INTERSTATE 89

0.380 RT
EAST TO
VERMONT 62 | 302

0.410 RT
ONLY | ONLY

0.180 RT
EAST TO
VERMONT 62 | 302

0.140 LT
PROHIBITED
PEDESTRIANS
HITCHHIKERS
STOPPING FOR HITCHHIKERS
ANIMALS
BICYCLES
FARM MACHINERY
SNOW VEHICLES
TURN SIGNAL REQUIRED BEFORE CHANGING LANES

0.178 LT
ONLY

0.489 RT
ONLY
RET

PAINE TURNPIKE

0.477 LT
EAST TO
VERMONT 62 | INTERSTATE 89

0.290 RT & CL

0.270 LT
WHITE RIVER JCT 52
MONTPELIER 4
BURLINGTON 40

MATCH LINE SEE THIS SHEET
TO BARRE

VT 62

50.504 NB
5%
RET

50.650 NB
EMERGENCY STOPPING ONLY

Ⓗ 0.000 LT
END
VERMONT 62

0.030 RT (RAMP D)
Ⓘ
35 M.P.H.

0.104 - 0.230 LT (10) (RAMP D)
Ⓙ

0.230 RT (RAMP B)
0.255 RT (RAMP D)
Ⓚ

50.405 NB
50.400 SB
0.145 CL
Ⓛ ONE WAY

50.310 NB
50.500 SB
Ⓜ

LEGEND
RET - RETAIN
SALV - SALVAGE

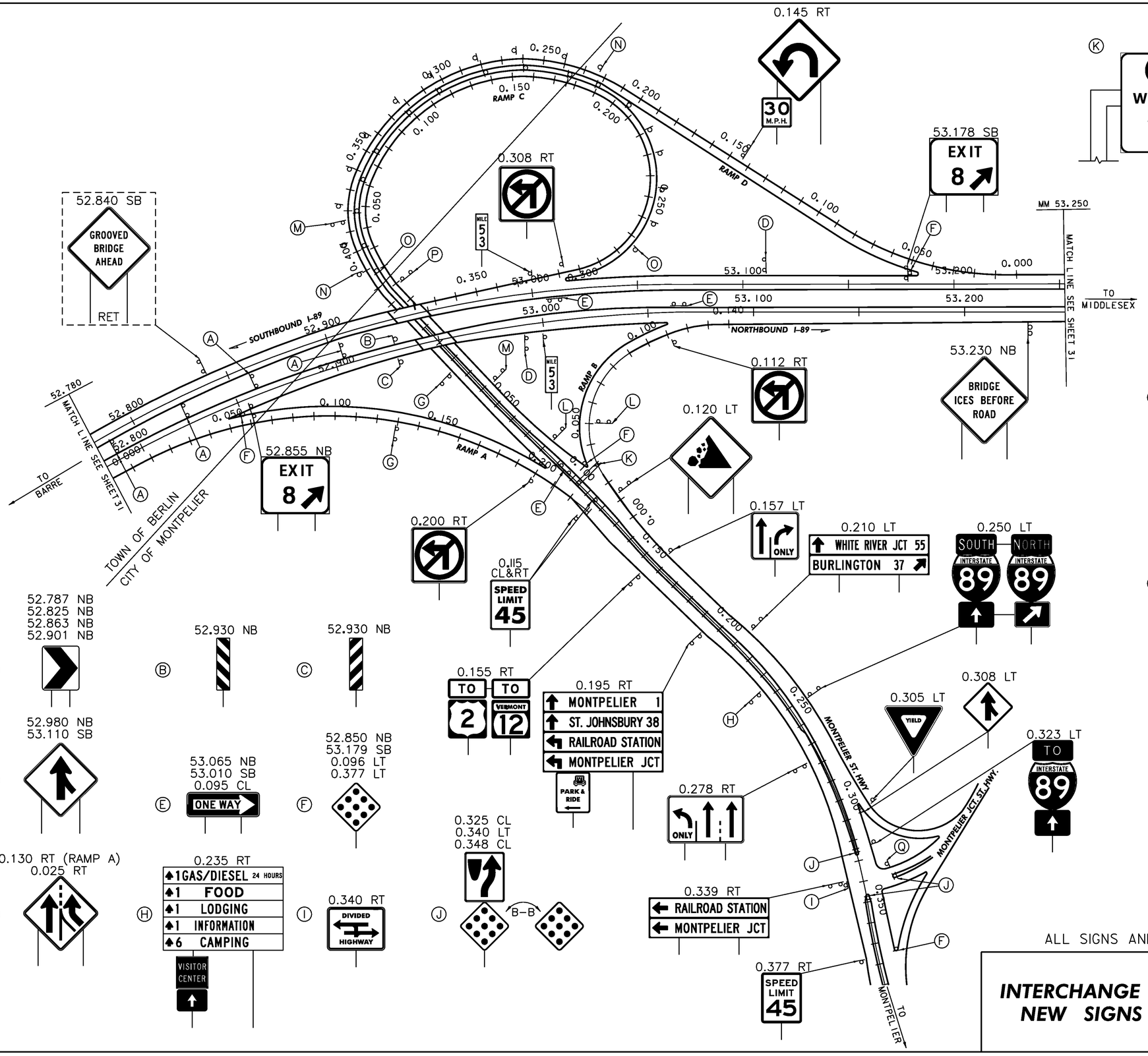
ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

MODEL: NEW

INTERCHANGE 7 NEW SIGNS

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020int07.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 40 OF 163



INTERCHANGE 8
NEW SIGNS

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020int08.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 41 OF 163

MODEL: NEW

Ⓐ 58.598 NB
58.850 SB
0.004 RT
0.007 LT

Ⓑ 58.604 NB
58.846 SB
EXIT 9

Ⓒ 0.075 RT (RAMP B)
0.125 LT
TO 2 TO VERMONT 100B

Ⓓ 0.105 LT (RAMP B)
0.110 LT (RAMP D)
WRONG WAY

Ⓔ 0.135 LT & RT (RAMP B)
0.150 LT & RT (RAMP D)
B–B
STOP
ONE WAY
DO NOT ENTER
ONE WAY

Ⓕ 0.030 RT (RAMP A)
0.030 RT (RAMP C)
PROHIBITED
PEDESTRIANS
HITCHHIKERS
STOPPING FOR WORKERS
ANIMALS
BICYCLES
FARM MACHINERY
SNOW VEHICLES
TURN SIGNAL REQUIRED BEFORE CHANGING LANES

Ⓖ 0.072 RT (RAMP D)
0.050 RT
TO 2 TO VERMONT 100B

Ⓗ 0.178 RT
CENTER ROAD
OVERWEIGHT PERMIT REQUIRED FOR ALL TRUCKS
RET

Ⓘ 0.166 RT
LEGAL LOAD LIMIT 24,000 POUNDS

0.040 RT
WATERBURY 6
BURLINGTON 32
MONTPELIER 7
WHITE RIVER JCT 60
NORTH INTERSTATE 89
SOUTH INTERSTATE 89

0.000 RT
MIDDLESEX 1
MORETOWN 8
WAITSFIELD 14
WARREN 20
EAST TO WEST
VERMONT 100B
2 2

0.000 LT
WATERBURY 6
STATE POLICE

0.040 LT
EAST TO WEST
VERMONT 100B
2 2

0.110 RT
B–B
MIDDLESEX 1
MORETOWN 8
STATE POLICE
WRONG WAY

Ⓙ 0.125 LT
SOUTH INTERSTATE 89 TO 2 NORTH INTERSTATE 89

Ⓚ 0.106 RT
WATERBURY 6
BURLINGTON 32
NORTH INTERSTATE 89

Ⓛ 0.100 LT
MONTPELIER 7
WHITE RIVER JCT 60
SOUTH INTERSTATE 89

0.050 RT
SOUTH INTERSTATE 89

0.115 RT

0.034 RT

Ⓜ 0.003 LT
0.014 RT
YIELD

Ⓝ 0.003 LT
STOP

Ⓞ 58.795 NB
58.585 SB
ONE WAY

Ⓟ 58.715 NB
58.690 SB

Ⓠ 58.810 SB
BRIDGE ICES BEFORE ROAD

58.530 NB
BRIDGE ICES BEFORE ROAD

0.045 RT

0.125 LT
NORTH INTERSTATE 89

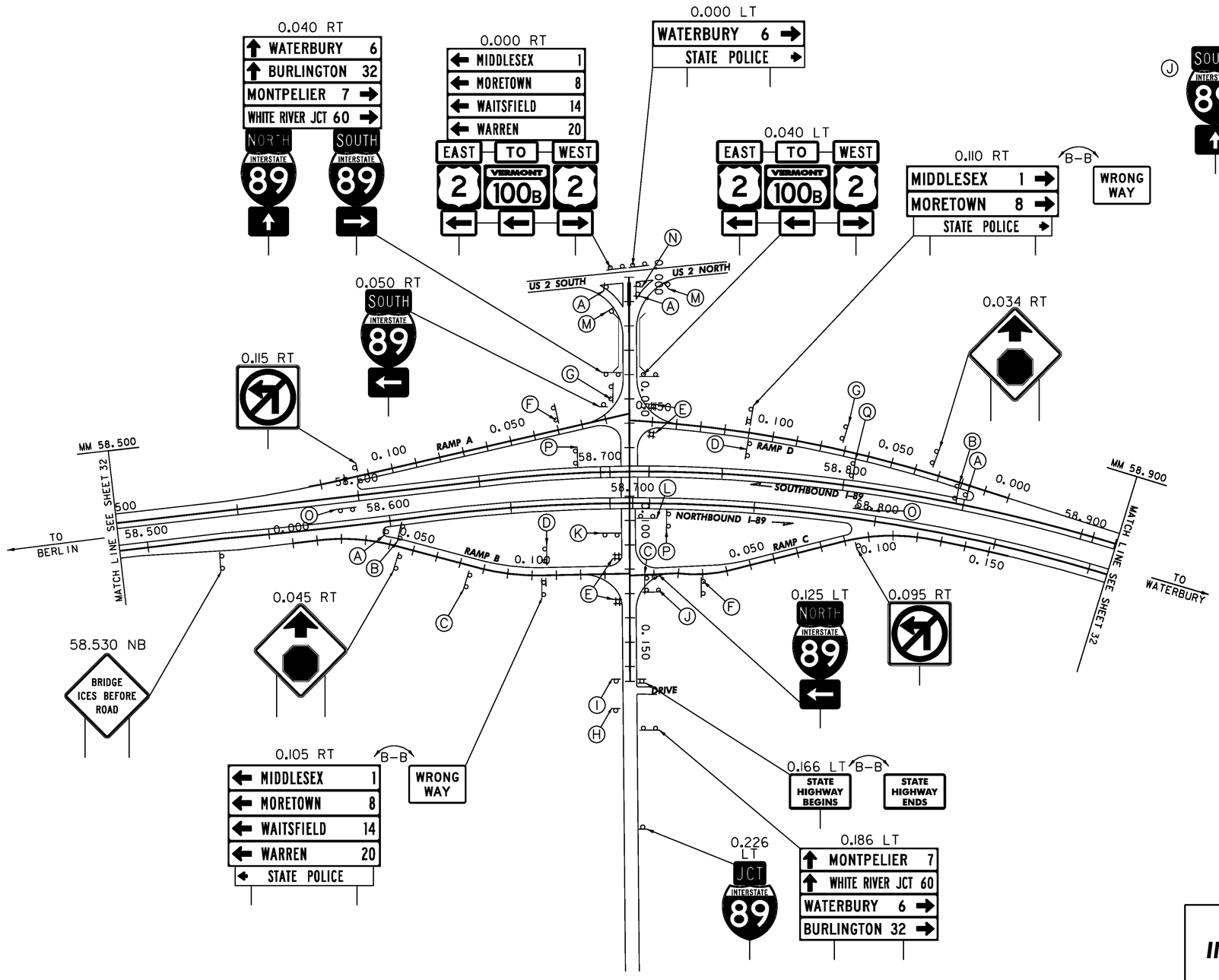
0.095 RT

0.105 RT
B–B
MIDDLESEX 1
MORETOWN 8
WAITSFIELD 14
WARREN 20
STATE POLICE
WRONG WAY

0.166 LT
B–B
STATE HIGHWAY BEGINS
STATE HIGHWAY ENDS

0.226 LT
JCT INTERSTATE 89

0.186 LT
MONTPELIER 7
WHITE RIVER JCT 60
WATERBURY 6
BURLINGTON 32



LEGEND
RET - RETAIN
SALV - SALVAGE

ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

INTERCHANGE 9 NEW SIGNS

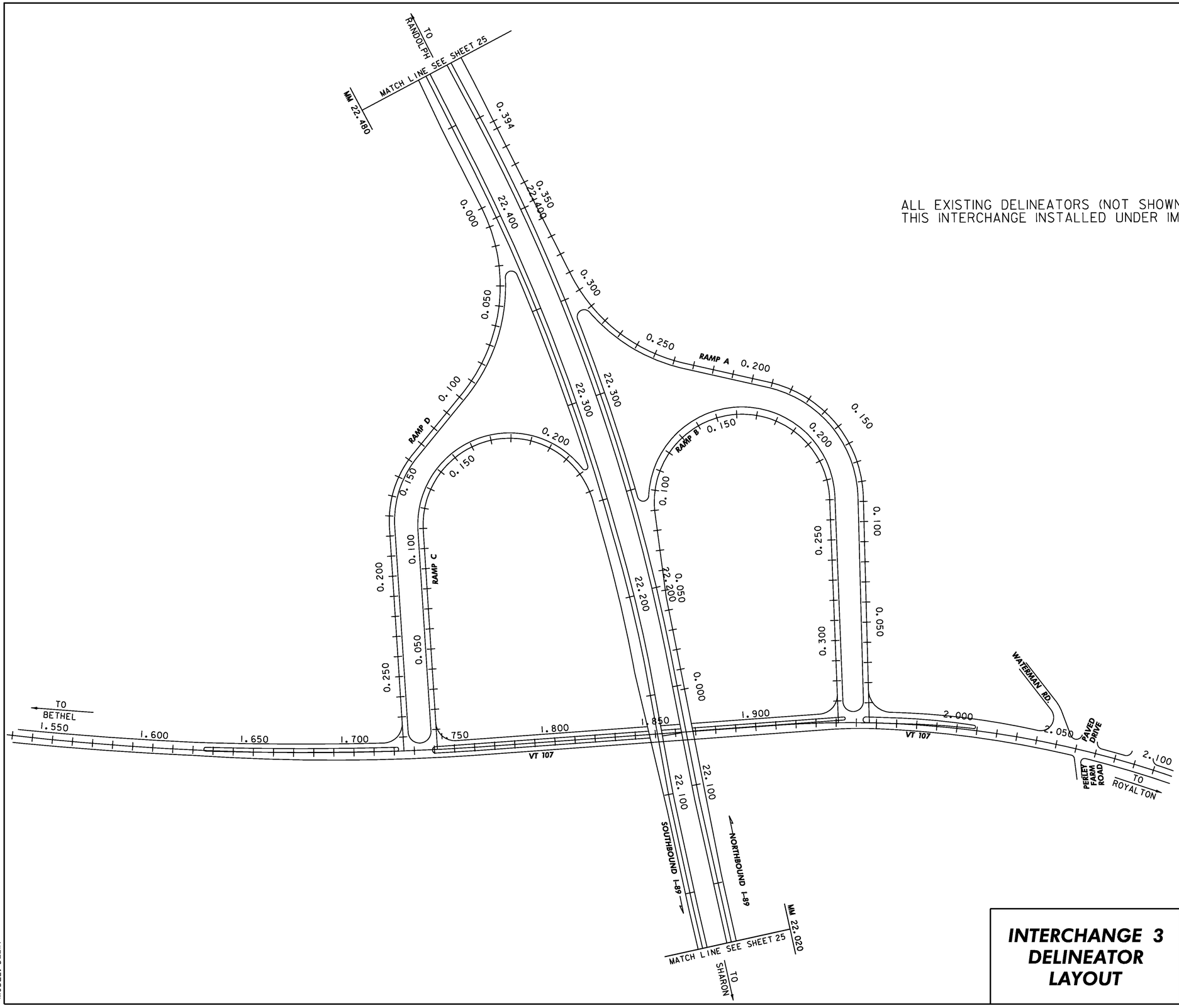
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020int09.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: DAM
SHEET 42 OF 163

MODEL: NEW

NOTE
FOR TYPICAL PLACEMENT OF DELINEATORS
SEE STANDARDS E-197 AND SHEET 4.

ALL EXISTING DELINEATORS (NOT SHOWN) ON THE INTERCHANGE RAMPS AT THIS INTERCHANGE INSTALLED UNDER IM 089-1(54) ARE TO BE RETAINED.



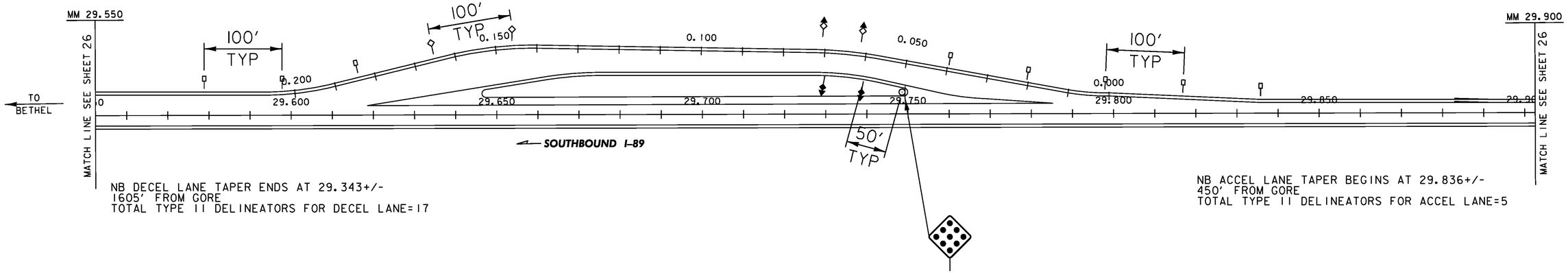
MODEL: DELIN

INTERCHANGE 3 DELINEATOR LAYOUT

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020int03.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 43 OF 163

NOTE
FOR TYPICAL PLACEMENT OF DELINEATORS
SEE STANDARDS E-197 AND SHEET 4.



NB DECEL LANE TAPER ENDS AT 29.343+/-
1605' FROM GORE
TOTAL TYPE II DELINEATORS FOR DECEL LANE=17

NB ACCEL LANE TAPER BEGINS AT 29.836+/-
450' FROM GORE
TOTAL TYPE II DELINEATORS FOR ACCEL LANE=5

LEGEND

- TYPE I (YELLOW)
- TYPE I (WHITE)
- TYPE II (WHITE)
- TYPE III (YELLOW, RED ON BACK)
- TYPE III (WHITE, RED ON BACK)

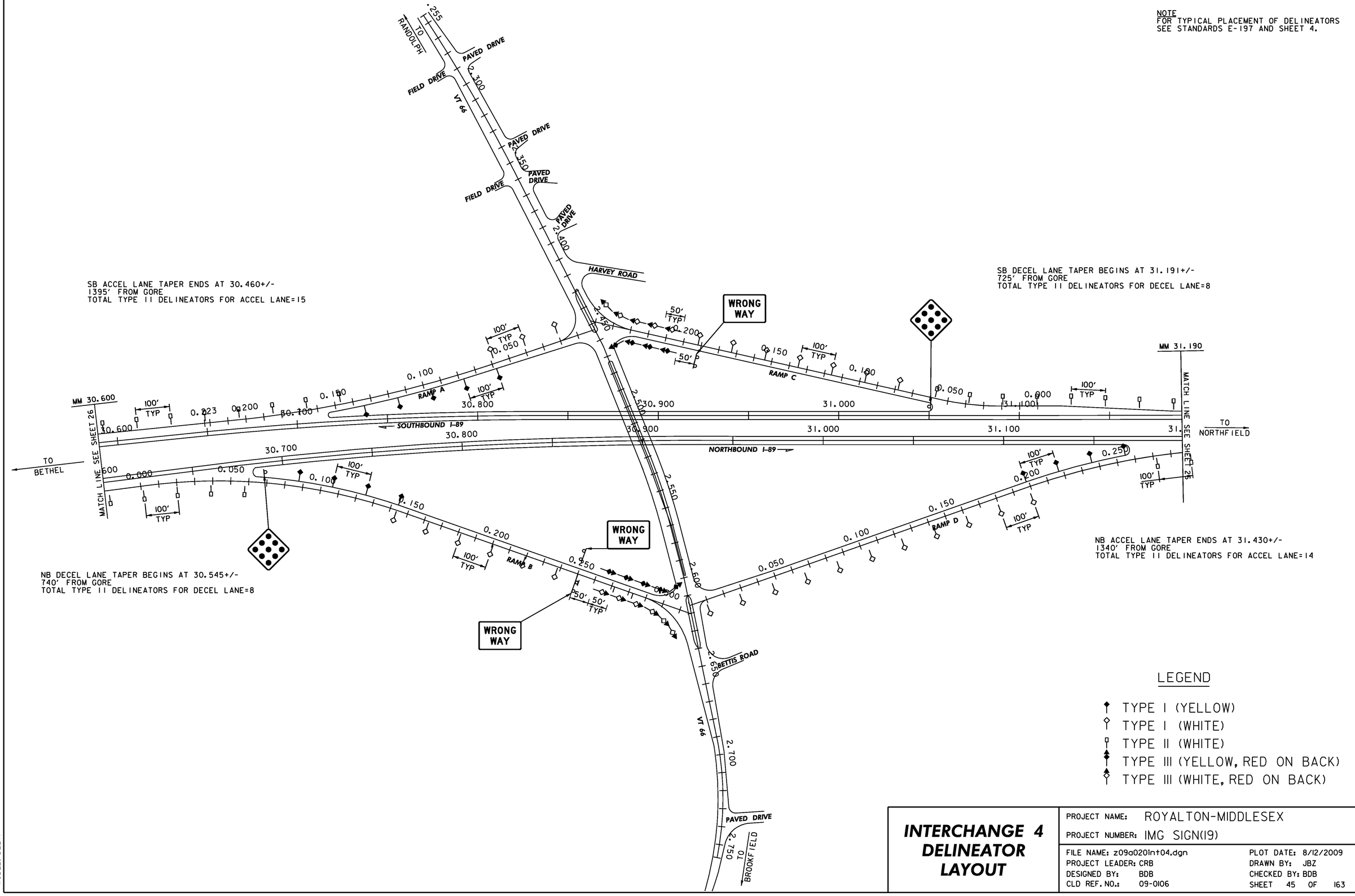
REST AREA
RANDOLPH – SB
DELINEATOR
LAYOUT
MM 29.675

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020rest-SB(29_70).dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 44 OF 163

MODEL: DELIN

NOTE
FOR TYPICAL PLACEMENT OF DELINEATORS
SEE STANDARDS E-197 AND SHEET 4.



LEGEND

- TYPE I (YELLOW)
- TYPE I (WHITE)
- TYPE II (WHITE)
- TYPE III (YELLOW, RED ON BACK)
- TYPE III (WHITE, RED ON BACK)

INTERCHANGE 4 DELINEATOR LAYOUT

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

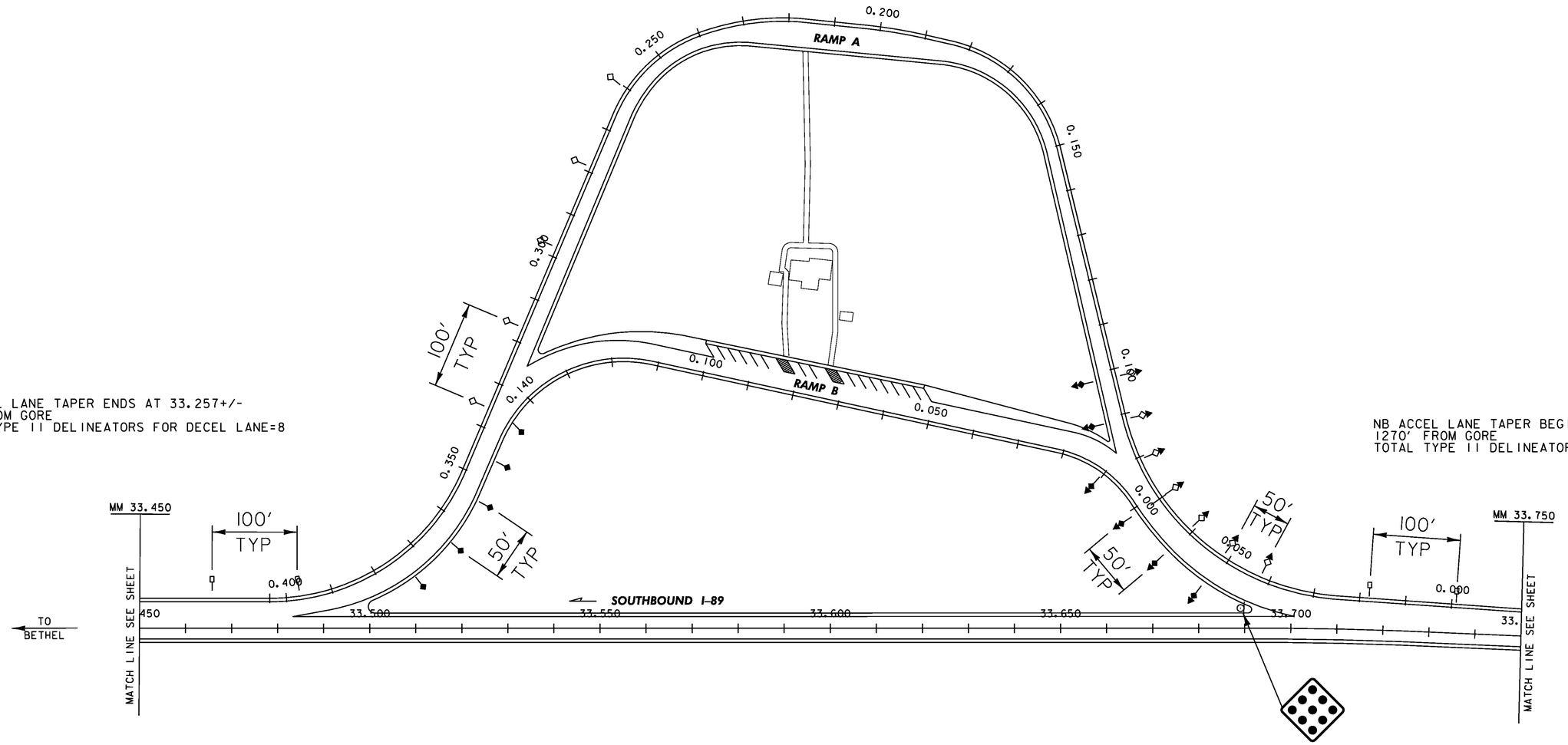
FILE NAME: z09a020int04.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 45 OF 163

MODEL: DELIN

NOTE
FOR TYPICAL PLACEMENT OF DELINEATORS
SEE STANDARDS E-197 AND SHEET 4.

NB DECEL LANE TAPER ENDS AT 33.257+/-
740' FROM GORE
TOTAL TYPE II DELINEATORS FOR DECEL LANE=8

NB ACCEL LANE TAPER BEGINS AT 33.830+/-
1270' FROM GORE
TOTAL TYPE II DELINEATORS FOR ACCEL LANE=13



LEGEND

- TYPE I (YELLOW)
- TYPE I (WHITE)
- TYPE II (WHITE)
- TYPE III (YELLOW, RED ON BACK)
- TYPE III (WHITE, RED ON BACK)

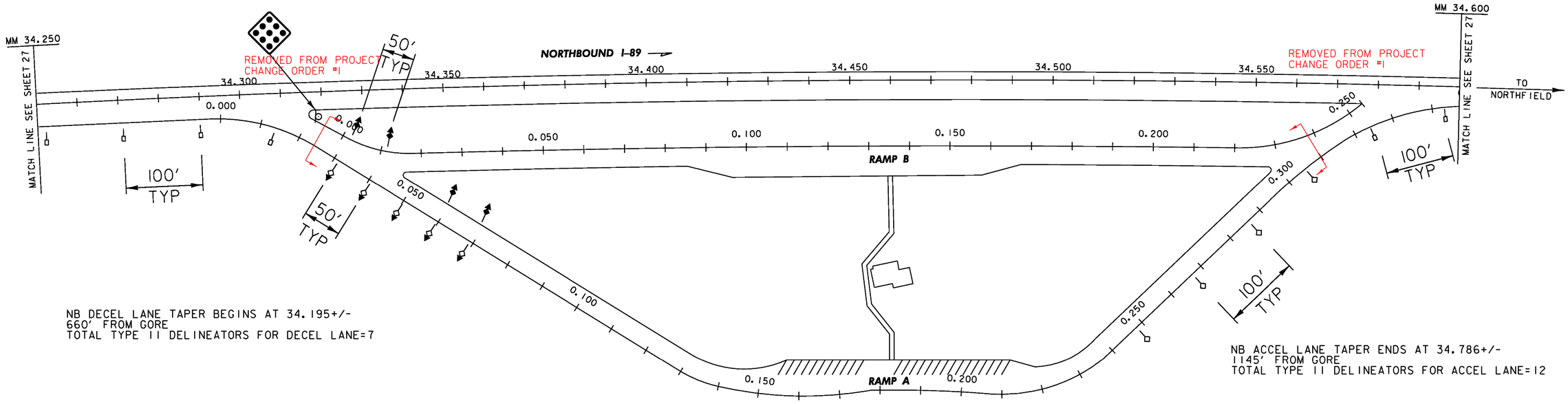
REST AREA
RANDOLPH – SB
DELINEATOR
LAYOUT
MM 33.600

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020rest-SB(34).dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 46 OF 163

MODEL: DELIN

NOTE
FOR TYPICAL PLACEMENT OF DELINEATORS
SEE STANDARDS E-197 AND SHEET 4.



NB DECEL LANE TAPER BEGINS AT 34.195+/-
660' FROM GORE
TOTAL TYPE II DELINEATORS FOR DECEL LANE=7

NB ACCEL LANE TAPER ENDS AT 34.786+/-
1145' FROM GORE
TOTAL TYPE II DELINEATORS FOR ACCEL LANE=12

LEGEND

- TYPE I (YELLOW)
- TYPE I (WHITE)
- TYPE II (WHITE)
- TYPE III (YELLOW, RED ON BACK)
- TYPE III (WHITE, RED ON BACK)

REST AREA
RANDOLPH – NB
DELINEATOR
LAYOUT
MM 34.450

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020rest-NB(34).dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 47 OF 163

MODEL: DELIN

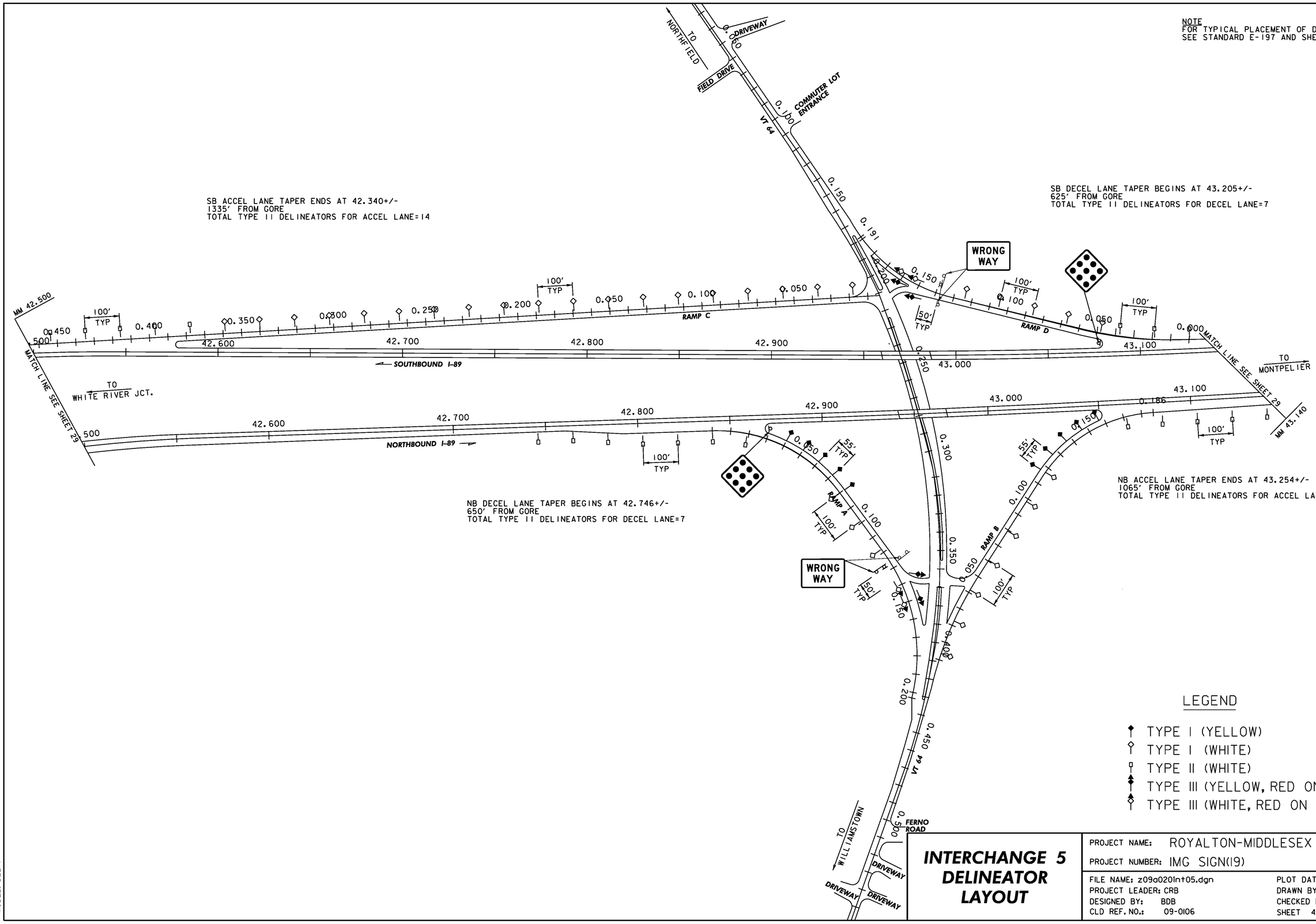
NOTE
FOR TYPICAL PLACEMENT OF DELINEATORS
SEE STANDARD E-197 AND SHEET 4.

SB ACCEL LANE TAPER ENDS AT 42.340+/-
1335' FROM GORE
TOTAL TYPE II DELINEATORS FOR ACCEL LANE=14

SB DECEL LANE TAPER BEGINS AT 43.205+/-
625' FROM GORE
TOTAL TYPE II DELINEATORS FOR DECEL LANE=7

NB DECEL LANE TAPER BEGINS AT 42.746+/-
650' FROM GORE
TOTAL TYPE II DELINEATORS FOR DECEL LANE=7

NB ACCEL LANE TAPER ENDS AT 43.254+/-
1065' FROM GORE
TOTAL TYPE II DELINEATORS FOR ACCEL LANE=11



LEGEND

- TYPE I (YELLOW)
- TYPE I (WHITE)
- TYPE II (WHITE)
- TYPE III (YELLOW, RED ON BACK)
- TYPE III (WHITE, RED ON BACK)

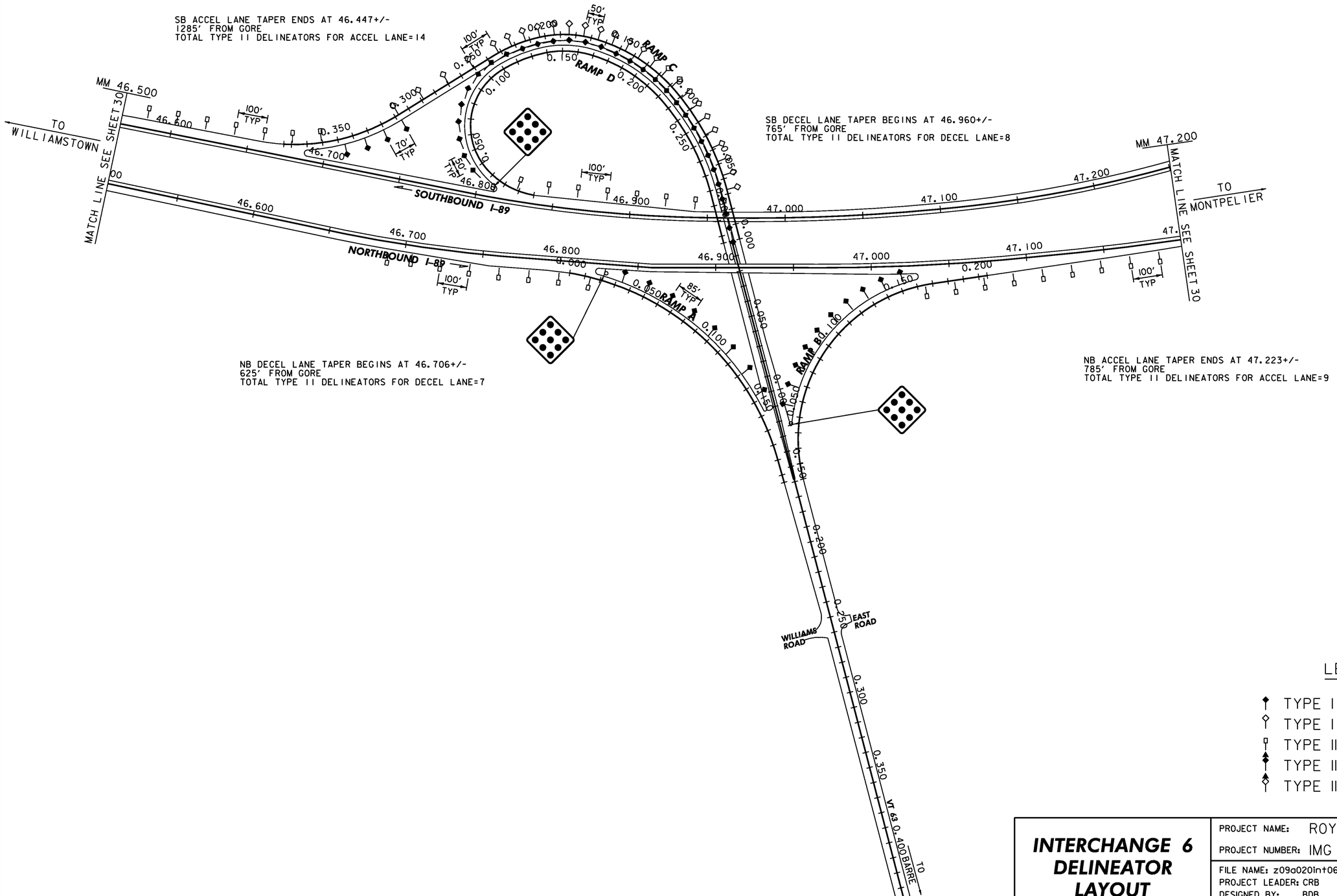
INTERCHANGE 5 DELINEATOR LAYOUT

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a0201nt05.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 48 OF 163

MODEL: DELIN

NOTE
FOR TYPICAL PLACEMENT OF DELINEATORS
SEE STANDARD E-197 AND SHEET 4.



LEGEND

- TYPE I (YELLOW)
- TYPE I (WHITE)
- TYPE II (WHITE)
- TYPE III (YELLOW, RED ON BACK)
- TYPE III (WHITE, RED ON BACK)

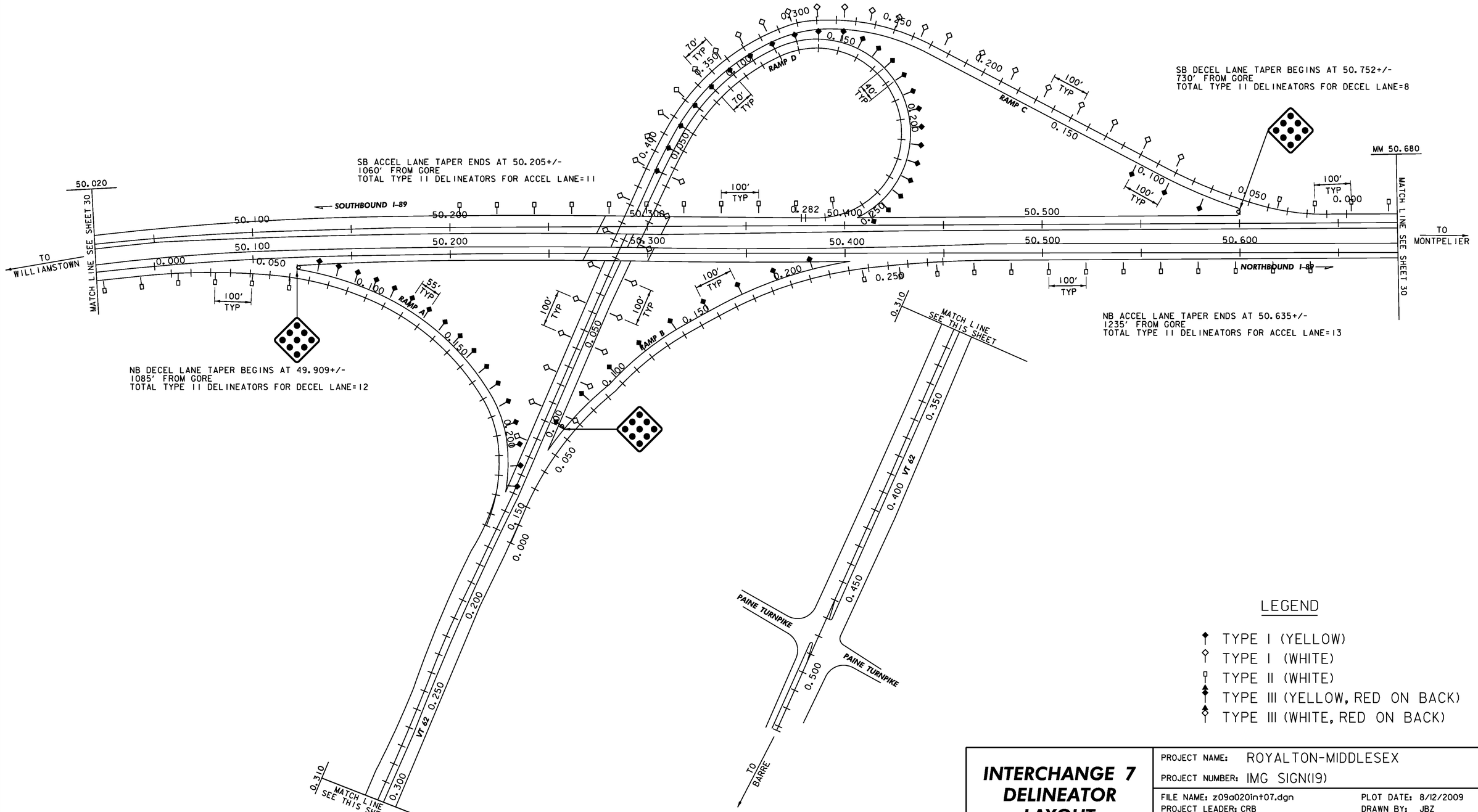
INTERCHANGE 6
DELINEATOR LAYOUT

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a0201nt06.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 49 OF 163

MODEL: DELIN

NOTE
FOR TYPICAL PLACEMENT OF DELINEATORS
SEE STANDARD E-197 AND SHEET 4.



LEGEND

- TYPE I (YELLOW)
- TYPE I (WHITE)
- TYPE II (WHITE)
- TYPE III (YELLOW, RED ON BACK)
- TYPE III (WHITE, RED ON BACK)

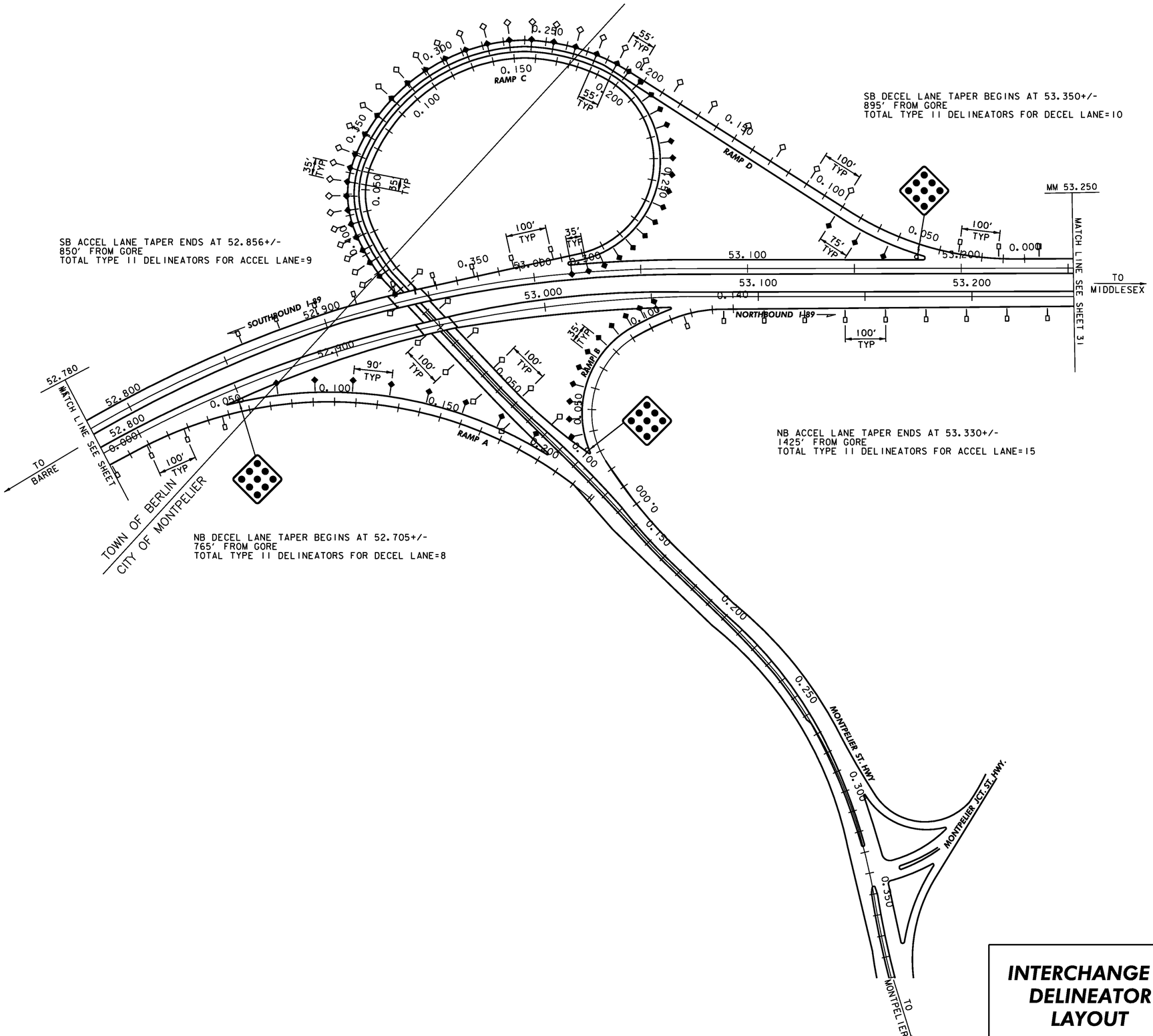
INTERCHANGE 7 DELINEATOR LAYOUT

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020int07.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 50 OF 163

MODEL: DELIN

NOTE
FOR TYPICAL PLACEMENT OF DELINEATORS
SEE STANDARD E-197 AND SHEET 4.



LEGEND

- TYPE I (YELLOW)
- TYPE I (WHITE)
- TYPE II (WHITE)
- TYPE III (YELLOW, RED ON BACK)
- TYPE III (WHITE, RED ON BACK)

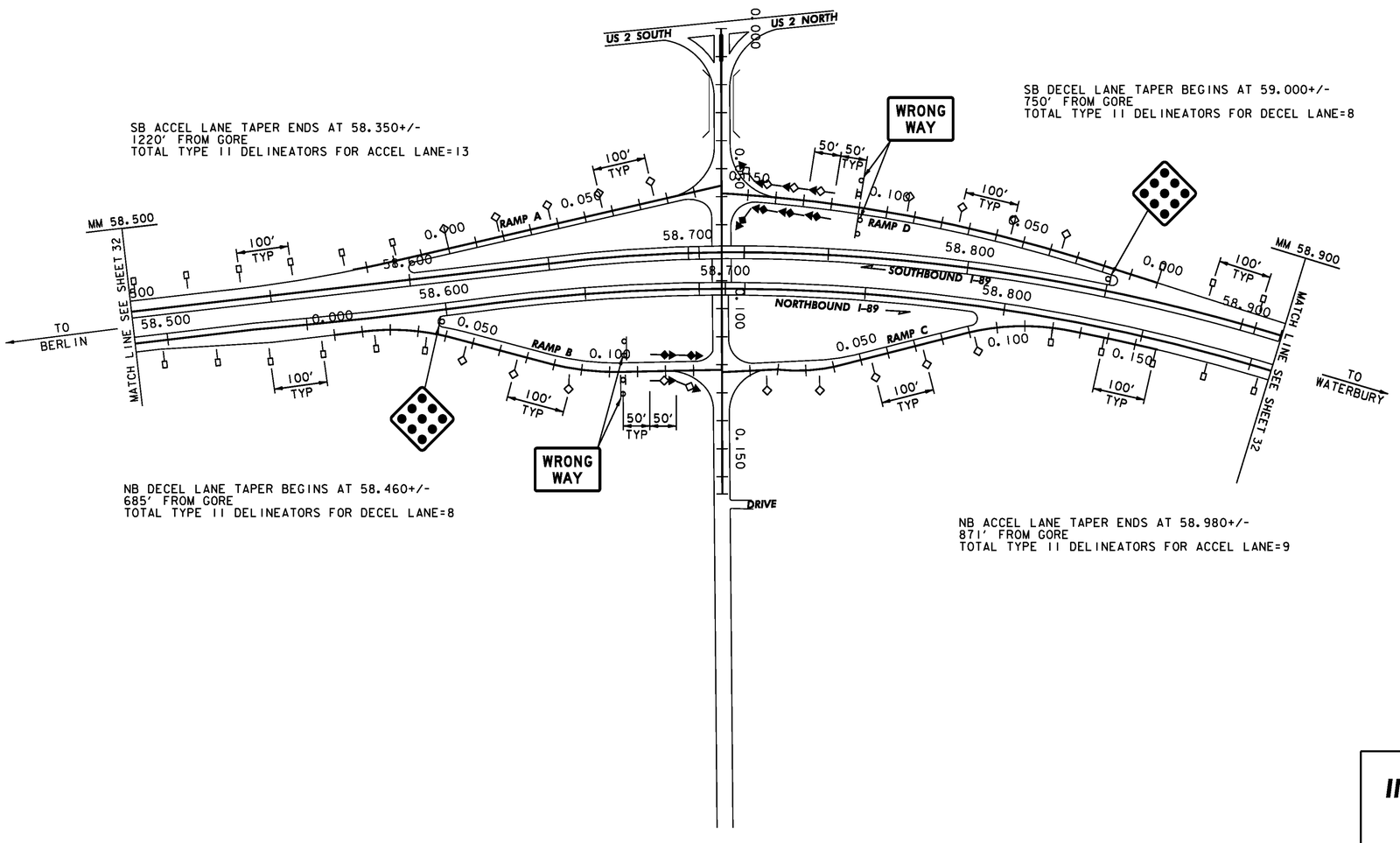
INTERCHANGE 8
DELINEATOR LAYOUT

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a0201nt08.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 51 OF 163

MODEL: DELIN

NOTE
FOR TYPICAL PLACEMENT OF DELINEATORS
SEE STANDARD E-197 AND SHEET 4.



LEGEND

- TYPE I (YELLOW)
- TYPE I (WHITE)
- TYPE II (WHITE)
- TYPE III (YELLOW, RED ON BACK)
- TYPE III (WHITE, RED ON BACK)

INTERCHANGE 9 DELINEATOR LAYOUT

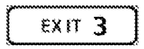
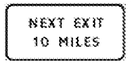
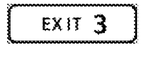
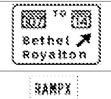
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020int09.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 52 OF 163

MODEL: DELIN

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 1

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
21.320 NB		1	96	30	20.00																														145	
		1	156	144		156.00					2																	2		929	W8X21		Fuse-Plate Bolt Tension 28.4 kips	132	
21.650 NB		1	96	30	20.00																														145	
		1	156	138		149.50																													132	
		1	96	48		32.00					2																	2		906	W8X21		Fuse-Plate Bolt Tension 31.2 kips	145	
21.770 NB		1	48	48	16.00						2									X													W8-13		
21.886 - 59.417 NB		33	6	10	13.86						33				X			33																VD-701 NOT SHOWN ON PLANS	146	
21.920 NB		1	144	144		144.00					2																	2		882	W8X18		Fuse-Plate Bolt Tension 20.8 kips SEE FOOTING DETAIL ON SHEET 3	132	
21.956 NB		1	42	38	11.08						2					X		2																	144	
21.960 NB		1	12	36	3.00						1				X			1																OM-3R		
21.960 NB MED		1	12	36	3.00						1				X			1																OM-3L		
22.135 NB		1	96	30	20.00																														145	
		1	162	120		135.00					2																	2		908	W8X21		Fuse-Plate Bolt Tension 28.4 kips SEE FOOTING DETAIL ON SHEET 3	132	
22.150 - 58.845 NB		14	6	8	4.62						14				X			14																VD-700M NOT SHOWN ON PLANS	146	
22.246 NB		1	72	60		30.00					2												2	X											145	
22.285 NB		1	48	48	16.00						2												2	X										W4-1R		
22.347 NB MED		1	36	12	3.00						2					X		2																R6-1R		
												FT	FT	FT	FT 410.6	FT 63.4	FT		EA.	LB 49.6	LB	LB		LB 387.6	LB	LB	LB								
SUBTOTALS SHEET 1		SF 130.56			SF 646.50		EA.	SF				FT			FT 474.0					LB 49.6			EA. 4	LB 387.6				EA. 8	EA.	LB 3625					

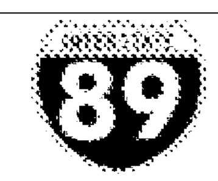
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_NB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
DRAWN BY: SRB
CHECKED BY: DAM
PLOT DATE: 8/12/2009
TRAFFIC SIGN SUMMARY SHEET # 1
SHEET 53 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 2

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 / 2.42	2.5 / 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 / 1.7	4.0Mod / 1.7	FND-ATION	TUBULAR STEEL DIA (in) 3.0 lb/ft 7.6	3.5 / 9.0	4.0 / 10.8	5.0 / 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
22.730 NB	EMERGENCY STOPPING ONLY	1	48	36	12.00						2												2	X									R8-7		
22.805 NB	NORTH	1	30	15	3.13																												M3-1 WHITE ON BLUE		
		1	36	36	9.00																												M1-1		
		1	36	36	9.00						1												1	X									M1-10		
22.900 NB		1	48	48	16.00																												VW-397	144	
	GROOVED SHOULDER	1	24	18	3.00						2										X												VP-396	144	
23.025 NB	SPEED LIMIT 65	1	48	60	20.00																												R2-1		
	MINIMUM 40	1	48	48	16.00						2												2		X								VR-141		E-142
23.210 NB	Randolph 11 Barre 29 Montpelier 31	1	114	48		38.00					2												2		X									132	
23.460 NB	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2										X												VR-132	144	
23.460 NB MED	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X									VR-132	144	
23.759 NB	ENTERING TOWN OF BETHEL	1	36	24	6.00						2					X		2															I-2		E-131
26.000 NB	MILE 2 6	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
26.053 NB	511 TRAVEL INFO	1	48	48	16.00						2												2	X										145	
26.668 NB	ENTERING TOWN OF RANDOLPH ORANGE CO.	1	36	30	7.50						2					X		2															I-2		E-131
27.000 NB	MILE 2 7	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
27.040 NB	TRAVEL INFO 100.1 FM	1	72	60		30.00					2										X													132	
												FT	FT	FT	FT	FT 86.1	FT		EA.	LB	LB 212.6	LB		LB 719.0	LB 613.8	LB	LB								
	SUBTOTALS SHEET 2				SF ~~163.63~~ 157.63	SF 68.00	EA.	SF				FT			FT 86.1					LB 212.6			EA. 11	LB 1332.8				EA.	EA.	LB					

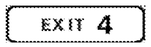
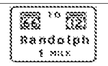
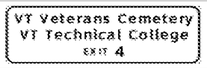
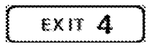
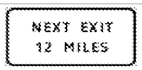
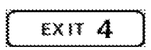
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME:	090106_tss_main_NB.xls	PLOT DATE:	8/12/2009
PROJECT LEADER:	CRB	DRAWN BY:	SRB
DESIGNED BY:	BDB	CHECKED BY:	DAM
TRAFFIC SIGN SUMMARY SHEET # 2		SHEET 54	OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 3

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
28.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1																	D10-2		E-139
29.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1																	D10-2		E-139
29.680 NB		1	96	30	20.00																															145	
		1	156	114		123.50					2																	2		783	W8X18			Fuse-Plate Bolt Tension 19.2 kips	133	
29.930 NB		1	252	84		147.00					2																	2		519	W6X15			Fuse-Plate Bolt Tension 19.2 kips	133	
30.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1																	D10-2		E-139
30.180 NB		1	96	30	20.00																															145	
		1	156	114		123.50																														133	
		1	96	48		32.00					2																	2		738	W8X18			Fuse-Plate Bolt Tension 23.3 kips	145	
30.335 NB							1				2																	2		771	W8X18			Fuse-Plate Bolt Tension 19.8 kips		
30.500 NB		1	96	30	20.00																															145	
		1	156	126		136.50					2																	2		710	W8X18			Fuse-Plate Bolt Tension 21.8 kips	133	
30.690 NB		1	18	18	2.25						1				X			1																	OM1-1		
30.693 NB		1	72	60		30.00					2													2	X										145	
31.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1																	D10-2		E-139
31.175 NB MED		1	36	12	3.00						2					X		2																	R6-1R		
31.450 NB		1	48	36	12.00						2													2	X												
												FT	FT	FT	FT 9.5	FT 70.0	FT		EA.	LB	LB	LB		LB 372.4	LB	LB	LB									
		SUBTOTALS SHEET 3			SF ~~89.25~~ 77.25	SF 592.50	EA. 1	SF				FT			FT 79.5					LB			EA. 4	LB 372.4				EA. 10	EA.	LB 3521						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss main_NB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 3

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 4

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
31.525 NB	NORTH	1	30	15	3.13																												M3-1 WHITE ON BLUE		
	89	1	36	36	9.00																												M1-1		
	BIKE ROUTE USBR 5 VERMONT	1	36	36	9.00						1												1	X								M1-10		
31.620 NB		1	48	48	16.00																												VW-397	144	
	GROOVED SHOULDER	1	24	18	3.00						2										X												VP-396	144	
31.715 NB	SPEED LIMIT 65	1	48	60	20.00																												R2-1		
	MINIMUM 40	1	48	48	16.00						2												2		X								VR-141		E-142
31.930 NB	Northfield 16 Barre 21 Montpelier 23	1	108	48		36.00					2												2		X									133	
32.000 NB	MILE 32	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
32.180 NB	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X								VR-132	144	
32.180 NB MED	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X								VR-132	144	
33.000 NB	MILE 33	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
33.426 NB	WEIGH STATION 1 MILE OPEN CLOSED	1	102	84		59.50					2												2			X								133	
34.000 NB	MILE 34	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2 NB 34.320 PLACED NEW OMI-I 2.25 SF AND POST @ 10.25' (SEE NOTES 8-27-10)		E-139
34.595 NB	ENTERING TOWN OF BROOKFIELD	1	36	24	6.00						2					X		2															I-2		E-131
35.000	MILE 35	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
36.000 NB	MILE 36	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
												FT	FT	FT	FT	FT 86.6	FT		EA.	LB	LB 69.9	LB		LB 547.2	LB 590.4	LB 344.6	LB							
SUBTOTALS SHEET 4		SF ~~137.13~~ 122.13	SF 95.50	EA.	SF				FT			FT 86.6								LB 69.9			EA. 11	LB 1482.2				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

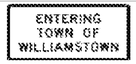
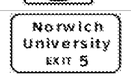
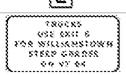
PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss main_NB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 4

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 56 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 5

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
37.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
38.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
39.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
39.138 NB		1	48	48	16.00																												VW-544	144	
		1	24	18	3.00						2												2	X									W16-2		
39.410 NB MED		1	36	36	9.00						2					X		2															R3-4		
40.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
40.730 NB		1	36	24	6.00						2					X		2															I-2		E-131
41.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
41.065 NB		1	48	48	16.00						2												2	X									VW-285	144	
41.840 NB		1	96	30	20.00																													145	
		1	210	144		210.00					2																X		2		901	W8X21		Fuse-Plate Bolt Tension 35 kips	134	
41.895 NB MED		1	36	36	9.00						2					X		2															R3-4		
41.990 NB		1	138	84		80.50					2												2				X							134	
42.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
42.140 NB		1	180	102		127.50					2																		2		503	W6X15		Fuse-Plate Bolt Tension 19.2 kips	135	
												FT	FT	FT	FT	FT 161.9	FT		EA.	LB	LB	LB		LB 418.0	LB	LB	LB 436.6								
	SUBTOTALS SHEET 5	SF ~~97.00~~ 79.00	SF 418.00	EA.	SF		FT				FT 161.9								LB	EA. 6			LB 854.6				EA. 4	EA.	LB 1404					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

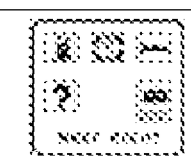
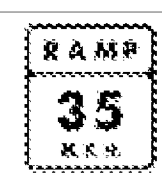
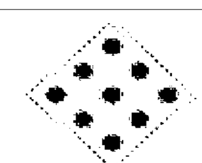
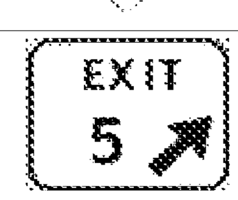
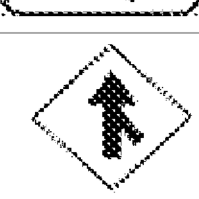
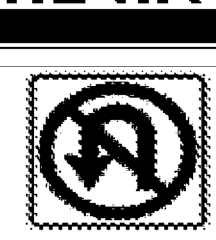
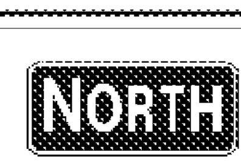
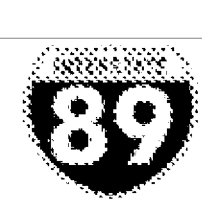
PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_NB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 5

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 6

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	SIGN DIMENSIONS WIDTH (in)	SIGN DIMENSIONS HEIGHT (in)	NEW & SALVAGED SIGNS "A"	NEW & SALVAGED SIGNS "B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	FLANGED CHANNEL lb/ft 2.0	FLANGED CHANNEL lb/ft 3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	SQUARE STEEL (in) 2.0 lb/ft 2.42	SQUARE STEEL (in) 2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	TUBULAR ALUMINUM DIA (in) 4.0 lb/ft 1.7	TUBULAR ALUMINUM DIA (in) 4.0Mod lb/ft 1.7	FND-ATION	TUBULAR STEEL DIA (in) 3.0 lb/ft 7.6	TUBULAR STEEL DIA (in) 3.5 lb/ft 9.0	TUBULAR STEEL DIA (in) 4.0 lb/ft 10.8	TUBULAR STEEL DIA (in) 5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	SIGN DETAIL: STD. SHEET NUMBER
42.290 NB		1	96	30	20.00																													145	
		1	210	138		201.25																												135	
		1	162	24		27.00					2																	2		1085	W10X22		Fuse-Plate Bolt Tension 31 kips	145	
42.440 NB		1	144	144		144.00					2																	2		715	W8X18		Fuse-Plate Bolt Tension 19.8 kips	135	
42.716 NB		1	96	30	20.00																													145	
		1	210	120		175.00					2																	2		803	W8X21		Fuse-Plate Bolt Tension 28.4 kips	135	
42.820 NB		1	48	60	20.00						2												2	X									W13-3		
42.867 NB		1	18	18	2.25						1				X			1															OM1-1		
42.870 NB		1	72	60		30.00					2												2	X										145	
42.970 NB		1	48	48	16.00						2									X													W4-1R		
43.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
43.057 NB MED		1	36	12	3.00						2					X		2															R6-1R		
43.200 NB MED		1	36	36	9.00						2					X		2															R3-4		
43.275 NB		1	48	36	12.00						2												2	X									R8-7		
43.350 NB		1	30	15	3.13																												M3-1 WHITE ON BLUE		
		1	36	36	9.00																												M1-1		
		1	36	36	9.00						1												1	X									M1-10		
												FT	FT	FT	FT 9.5	FT 70.7	FT		EA.	LB 49.6	LB	LB		LB 691.6	LB	LB	LB								
SUBTOTALS SHEET 6					SF ~~126.38~~ 123.38	SF 577.25	EA.	SF				FT			FT 80.2					LB 49.6			EA. 7	LB 691.6				EA. 6	EA.	LB 2603					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME:	ROYALTON - MIDDLESEX		
PROJECT NUMBER:	IMG SIGN(19)		
FILE NAME:	090106_tss_main_NB.xls	PLOT DATE:	8/12/2009
PROJECT LEADER:	CRB	DRAWN BY:	SRB
DESIGNED BY:	BDB	CHECKED BY:	DAM
TRAFFIC SIGN SUMMARY SHEET # 6		SHEET 58	OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 7

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
43.445 NB		1	48	48	16.00																												VW-397	144	
	GROOVED SHOULDER	1	24	18	3.00						2												2	X									VP-396	144	
43.540 NB	SPEED LIMIT 65	1	48	60	20.00																												R2-1		
	MINIMUM 40	1	48	48	16.00						2												2		X								VR-141		E-142
43.830 NB	Barre 9 Montpelier 10	1	108	36		27.00					2												2	X										135	
44.000 NB	4 4	1	12	36	~~3.00~~ 4.00						1					X		1														D10-2		E-139
~~44.080~~ NB 44.086	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X								VR-132	144	
44.080 NB MED	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X								VR-132	144	
45.000 NB	4 5	1	12	36	~~3.00~~ 4.00						1					X		1														D10-2		E-139
45.345 NB	TRAVEL INFO	1	48	48	16.00						2									X													145	
45.500 NB		1	48	48	16.00																												W11-3		
	NEXT 3 MILES	1	30	24	5.00						2										X													144	
45.900 NB	EXIT 6	1	96	30	20.00																													145	
	South Barre Barre	1	198	144		198.00					2																	2		855	W8X21		Fuse-Plate Bolt Tension 33.3 kips	135	
46.000 NB	4 6	1	12	36	~~3.00~~ 4.00						1					X		1														D10-2		E-139
46.240 NB	ENTERING TOWN OF BERLIN WASHINGTON CO.	1	36	30	7.50						2					X		2														I-2		E-131
												FT	FT	FT	FT	FT 63.7	FT		EA.	LB 49.6	LB 71.6	LB		LB 819.3	LB 315.0	LB	LB								
SUBTOTALS SHEET 7		SF ~~168.50~~ 159.5	SF 225.00	EA.	SF						FT				FT 63.7					LB 121.2			EA. 10	LB 1134.3				EA. 2	EA.	LB 855					

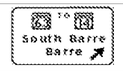
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_NB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
TRAFFIC SIGN SUMMARY SHEET # 7
SHEET 59 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 8

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
46.250 NB		1	96	30	20.00																															145	
		1	198	138		189.75					2																	2		872	W8X21			Fuse-Plate Bolt Tension 31 kips	136	
46.347 NB MED		1	36	36	9.00						2					X		2																	R3-4		
46.405 NB		1	144	144		144.00					2																	2		798	W8X18			Fuse-Plate Bolt Tension 20.5 kips	136	
46.535 NB		1	96	30	20.00																															145	
		1	198	126		173.25					2																	2		798	W8X21			Fuse-Plate Bolt Tension 28.4 kips	136	
46.630 NB		1	48	48	16.00						2												2	X											VW-285	144	
46.830 NB		1	18	18	2.25						1				X			1																	OM1-1		
46.836 NB		1	72	60		30.00					2												2	X											145		
46.945 NB		1	48	48	16.00						2									X															W4-1R		
47.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1																	D10-2		E-139
47.035 NB MED		1	36	12	3.00						2					X		2																	R6-1R		
47.320 NB		1	48	36	12.00						2												2	X											R8-7		
47.395 NB		1	30	15	3.13																															M3-1 WHITE ON BLUE		
		1	36	36	9.00																															M1-1		
		1	36	36	9.00						1												1	X											M1-10		
47.428 NB MED		1	36	36	9.00						2					X		2																	R3-4		
												FT	FT	FT	FT 9.5	FT 104.6	FT		EA.	LB 49.6	LB	LB		LB 684.0	LB	LB	LB									
SUBTOTALS SHEET 8		SF ~~131.38~~ 128.38	SF 537.00	EA.	SF				FT			FT 114.1								LB 49.6			EA. 7	LB 684.0				EA. 6	EA.	LB 2468						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss main_NB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
TRAFFIC SIGN SUMMARY SHEET # 8
SHEET 60 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 9

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) lb/ft 3.0 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
47.490 NB		1	48	48	16.00																												VW-397	144	
	GROOVED SHOULDER	1	24	18	3.00						2										X												VP-396	144	
47.585 NB	SPEED LIMIT 65	1	48	60	20.00																												R2-1		
	MINIMUM 40	1	48	48	16.00						2												2		X								VR-141		E-142
47.925 NB	Barre 7 Montpelier 7	1	102	36		25.50					2										X													136	
48.000 NB	EXIT 4 8	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
48.175 NB	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X									VR-132	144	
48.175 NB MED	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X									VR-132	144	
48.953 NB	EXIT 7	1	96	30	20.00																													145	
	302 Berlin Barre Town	1	156	144		156.00					2																	2		868	W8X21		Fuse-Plate Bolt Tension 28.4 kips	136	
49.000 NB	EXIT 4 9	1	12	36	3.00						1					X		1															D10-2		E-139
49.325 NB	Edward F. Knapp State Airport EXIT 7	1	216	84		126.00					2																	2		370	W6X12		Fuse-Plate Bolt Tension 14.5 kips	136	
49.505 NB	EXIT 7	1	96	30	20.00																													145	
	302 Berlin Barre VT 62	1	156	138		149.50					2																	2		817	W8X21		Fuse-Plate Bolt Tension 28.4 kips	136	
49.735 NB	EXIT 7 H	1	144	144		144.00					2																	2		762	W8X18		Fuse-Plate Bolt Tension 19.8 kips	137	
49.810 NB MED		1	36	36	9.00						2					X		2															R3-4		
48.5 NB	MOVE OVER SIGN					60.5																											POST REPLACED 9-22-10 TOO LOW		
												FT	FT	FT	FT	FT 54.0	FT		EA.	LB	LB 129.4	LB		LB 440.8	LB 324.9	LB	LB								
	SUBTOTALS SHEET 9				SF ~~150.00~~ 144.00	SF 601.00	EA.	SF				FT			FT	54.0				LB	129.4		EA. 6	LB	765.7			EA. 8	EA.	LB 2817					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_NB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 9

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 61 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 10

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) lb/ft 3.0 1.3	4.0 1.7	4.0Mod 1.7	FND-ATION	TUBULAR STEEL DIA (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
49.910 NB		1	96	30	20.00																														145	
		1	156	120		130.00					2																	2		805	W8X18		Fuse-Plate Bolt Tension 20.7 kips	137	
50.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
50.060 NB		1	48	60	20.00						2									X													W13-3		
50.123 NB		1	18	18	2.25						1				X			1															OM1-1		
50.126 NB		1	72	60		30.00					2												2	X									145	
50.310 NB		1	48	48	16.00						2								X													W4-1R		
50.405 NB MED		1	36	12	3.00						2					X		2															R6-1R		
50.650 NB		1	48	36	12.00						2								X													R8-7		
50.730 NB		1	30	15	3.13																											M3-1 WHITE ON BLUE		
		1	36	36	9.00																											M1-1		
		1	36	36	9.00						1												1	X									M1-10		
50.732 NB MED		1	36	36	9.00						2					X		2															R3-4		
50.848 NB MED		1	36	36	9.00						2					X		2															R3-4		
50.910 NB		1	48	48	16.00																											VW-397	144	
		1	24	18	3.00						2												2	X									VP-396	144	
												FT	FT	FT	FT 9.5	FT 103.1	FT		EA.	LB 96.6	LB 68.2	LB		LB 501.6	LB	LB	LB								
SUBTOTALS SHEET 10		SF ~~134.38~~ 131.38	SF 160.00	EA.	SF		FT		FT 112.6			LB 164.8			EA. 5		LB 501.6				EA. 2	EA.	LB 805											

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss main_NB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 10

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 62 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 11

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
50.990 NB 51.004	SPEED LIMIT 65	1	48	60	20.00																												R2-1 HIT UNDER DRAIN - REPAIRED.		
	MINIMUM 40	1	48	48	16.00						2												2		X								VR-141		E-142
51.000 NB	5 1	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
51.075 NB	Montpelier 3 Burlington 39	1	108	36		27.00					2												2	X										137	
51.325 NB 51.375	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X									VR-132	144	
51.325 NB MED	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2									X												VR-132	144	
51.540 NB	Welcome to Montpelier Capital of Vermont	1	156	108		117.00 + 39.0 FRENCH "WELCOME" SIGN ADDED					2																	2		510	W6X15		Fuse-Plate Bolt Tension 19.2 kips	137	
51.720 NB	EXIT 8	1	96	30	20.00																													145	
	2 Montpelier 1 MILE	1	174	114		137.75																												137	
	VISITOR CENTER	1	114	24	19.00						2																	2		627	W8X18		Fuse-Plate Bolt Tension 22.3 kips	145	
51.860 NB		1	48	48	16.00						2												2	X									VW-285	144	
52.000 NB	5 2	1	12	36	3.00						1					X		1															D10-2		E-139
52.140 NB	CROSSWIND WARNING AHEAD	1	48	48	16.00						2									X														144	
52.179 NB	ENTERING CITY OF MONTPELIER	1	36	24	6.00						2					X		2															I-2		E-131
52.235 NB	EXIT 8	1	96	30	20.00																													145	
	2 Montpelier VT MILE	1	174	114		137.75																												137	
	NEXT EXIT 8 MILES	1	162	24		27.00					2																	2		683	W8X18		Fuse-Plate Bolt Tension 23.4 kips	145	
												FT	FT	FT	FT	FT 54.5	FT		EA.	LB	LB 49.6	LB 71.6			LB 591.3	LB 315.0	LB	LB							
	SUBTOTALS SHEET 11				SF ~~179.00~~ 173.00	SF ~~446.50~~ 485.5	EA.	SF			FT				FT 54.5					LB 121.2			EA. 8		LB 906.3				EA. 6	EA.	LB 1820					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

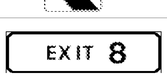
PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_NB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 11

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 63 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 12

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod 1.7	FND-ATION	TUBULAR STEEL DIA (in) 3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
52.288 NB		1	36	48	12.00						2					X		2																W1-8L FLUORESCENT YELLOW TYPE IX SHEETING		
52.340 NB		1	48	48	16.00						2									X														W8-13		
52.381 NB MED		1	36	36	9.00						2					X		2																R3-4		
52.390 NB		1	36	48	12.00						2					X		2																W1-8L FLUORESCENT YELLOW TYPE IX SHEETING		
52.440 NB		1	144	144		144.00					2																	2		755	W8X18			Fuse-Plate Bolt Tension 19.8 kips	137	
52.470 NB		1	36	48	12.00						2					X		2																W1-8L FLUORESCENT YELLOW TYPE IX SHEETING		
52.500 NB		1	36	48	12.00						2					X		2																W1-8L FLUORESCENT YELLOW TYPE IX SHEETING		
52.555 NB		1	36	48	12.00						2					X		2																W1-8L FLUORESCENT YELLOW TYPE IX SHEETING		
52.595 NB		1	96	30	20.00																														145	
		1	174	132		159.50					2																	2		798	W8X21			Fuse-Plate Bolt Tension 28.4 kips	138	
52.690 NB		1	48	60	20.00						2												2	X										W13-2		
52.755 NB MED		1	36	48	12.00						2					X		2																W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
52.787 NB MED		1	36	48	12.00						2					X		2																W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
52.825 NB MED		1	36	48	12.00						2					X		2																W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
52.850 NB		1	18	18	2.25						1				X			1																OM1-1		
52.855 NB		1	72	60		30.00					2												2	X											145	
52.863 NB MED		1	36	48	12.00						2					X		2																W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
												FT	FT	FT	FT 9.5	FT 682.4	FT		EA.	LB 49.6	LB	LB		LB 395.2	LB	LB	LB								
		SUBTOTALS SHEET 12	SF 175.25	SF 333.50	EA.	SF						FT			FT 691.9					LB 49.6			EA. 4	LB 395.2				EA. 4	EA.	LB 1553						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_NB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 12

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 64 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 13

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																				SIGN DETAIL	
		E A	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	FLANGED CHANNEL lb/ft 2.0	FLANGED CHANNEL lb/ft 3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	SQUARE STEEL (in) 2.0 lb/ft 2.42	SQUARE STEEL (in) 2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	TUBULAR ALUMINUM DIA (in) 4.0 lb/ft 1.7	TUBULAR ALUMINUM DIA (in) 4.0Mod lb/ft 1.7	FND-ATION	TUBULAR STEEL DIA (in) 3.0 lb/ft 7.6	TUBULAR STEEL DIA (in) 3.5 lb/ft 9.0	TUBULAR STEEL DIA (in) 4.0 lb/ft 10.8	TUBULAR STEEL DIA (in) 5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME	REMARKS	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
52.901 NB MED		1	36	48	12.00						2					X		2														W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
52.930 NB		1	12	36	3.00						1				X			1														OM-3R		
52.930 NB MED		1	12	36	3.00						1				X			1														OM-3L		
52.980 NB		1	48	48	16.00						2									X												W4-1R		
53.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1														D10-2		E-139
53.065 NB MED		1	36	12	3.00						2					X		2														R6-1R		
53.230 NB		1	48	48	16.00						2									X												W8-13		
53.320 NB MED		1	36	36	9.00						2					X		2														R3-4		
53.340 NB		1	12	36	3.00						1				X			1														OM-3R		
53.340 NB MED		1	12	36	3.00						1				X			1														OM-3L		
53.525 NB		1	48	36	12.00						2									X												R8-7		
53.600 NB		1	30	15	3.13																											M3-1 WHITE ON BLUE		
		1	36	36	9.00																											M1-1		
		1	36	36	9.00						1											1	X									M1-10		
53.695 NB		1	48	48	16.00																											VW-397	144	
		1	24	18	3.00						2											2	X									VP-396	144	
												FT	FT	FT	FT 50.4	FT 141.2	FT		EA.	LB 146.2	LB	LB		LB 319.2	LB	LB	LB							

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

SUBTOTALS SHEET 13	SF ~~123.13~~ 120.13	SF	EA.	SF		FT	FT 191.6	LB 146.2	EA. 3	LB 319.2	EA.	EA.	LB

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME:	090106_tss main_NB.xls	PLOT DATE:	8/12/2009
PROJECT LEADER:	CRB	DRAWN BY:	SRB
DESIGNED BY:	BDB	CHECKED BY:	DAM
TRAFFIC SIGN SUMMARY SHEET # 13		SHEET 65	OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 14

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
53.790 NB	SPEED LIMIT 65	1	48	60	20.00																												R2-1		
	MINIMUM 40	1	48	48	16.00						2												2		X							VR-141		E-142
53.880 NB	Middlesex 5 Burlington 36	1	108	36		27.00					2										X												138	
53.960 NB		1	48	48	16.00																												VW-285	144	
	NEXT 1 MILE	1	30	24	5.00						2										X												144	
54.000 NB	NO 5 4	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
54.102 NB	ENTERING TOWN OF MIDDLESEX	1	36	24	6.00						2					X		2															I-2		E-131
54.130 NB	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X								VR-132	144	
54.130 NB MED	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2										X											VR-132	144	
54.375 NB	MOOSE	1	48	48	16.00																												VW-001	144	
	NEXT 4 MILES	1	30	24	5.00						2												2	X									144	
54.690 NB	CROSS ROAD SIGN AHEAD	1	48	48	16.00						2									X												W8-13		
54.785 NB		1	12	36	3.00						1				X			1														OM-3R		
54.785 NB MED		1	12	36	3.00						1				X			1														OM-3L		
54.897 NB MED		1	36	36	9.00						2					X		2														R3-4		
54.965 NB		1	48	48	16.00						2												2	X								VW-285	144	
55.000 NB	NO 5 5	1	12	36	3.00						1					X		1														D10-2		E-139
												FT	FT	FT	FT 25.2	FT 84.4	FT		EA.	LB 49.6	LB 195.1	LB		LB 646.0	LB 324.9	LB	LB								
	SUBTOTALS SHEET 14				SF ~~177.00~~ 171.00	SF 27.00	EA.	SF				FT			FT 109.6					LB 244.7			EA. 8	LB 970.9				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

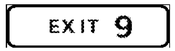
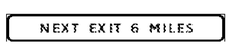
PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_NB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 14

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 66 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 15

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) lb/ft 3.0 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
56.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
56.040 NB MED		1	36	36	9.00						2					X		2															R3-4		
56.450 NB		1	48	48	16.00						2											2	X									W1-2R		
56.450 NB MED		1	48	48	16.00						2											2	X									W1-2R		
57.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
57.330 NB		1	96	30	20.00																													145	
		1	162	144		162.00					2																	2		853	W8X21			Fuse-Plate Bolt Tension 28.4 kips	138	
57.738 NB MED		1	36	36	9.00						2					X		2															R3-4		
57.800 NB		1	132	84		77.00					2											2				X								138	
57.955 NB		1	96	30	20.00																													145	
		1	162	138		155.25																												138	
		1	162	24		27.00					2																	2		832	W8X21			Fuse-Plate Bolt Tension 30 kips	145	
58.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
58.130 NB		1	72	54		27.00					2										X													138	
58.330 NB MED		1	36	36	9.00						2					X		2															R3-4		
											FT	FT	FT		FT	FT 129.7	FT		EA.	LB	LB 62.8	LB		LB 410.4	LB	LB	LB 474.5									
		SUBTOTALS SHEET 15	SF ~~99.00~~ ~~108.00~~	SF 448.25	EA.	SF			FT		FT 129.7				LB 62.8		EA. 6		LB 884.9				EA. 4	EA.	LB 1685									

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss main_NB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
TRAFFIC SIGN SUMMARY SHEET # 15
SHEET 67 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 16

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
58.455 NB	EXIT 9	1	96	30	20.00																															145	
	Middlesex Recreation	1	162	156		175.50																														138	
	STATE POLICE	1	30	30	6.25						2																	2		889	W8X21			Fuse-Plate Bolt Tension 32.4 kips		E-132
58.530 NB	Middlesex Recreation	1	48	48	16.00						2									X														W8-13		
58.598 NB		1	18	18	2.25						1				X			1																OM1-1		
58.604 NB	EXIT 9	1	72	60		30.00					2												2	X										145	
58.715 NB		1	48	48	16.00						2									X														W4-1R		
58.795 NB MED	ONE WAY	1	36	12	3.00						2					X		2																R6-1R		
59.000 NB	5 9	1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
59.010 NB	EMERGENCY STOPPING ONLY	1	48	36	12.00						2									X														R8-7		
59.075 NB	NORTH	1	30	15	3.13																													M3-1 WHITE ON BLUE		
	INTERSTATE 89	1	36	36	9.00																													M1-1		
	BIKE ROUTE 5 INTERSTATE ROUTE	1	36	36	9.00						1												1	X										M1-10		
59.160 NB		1	48	48	16.00																													VW-397	144	
	GROOVED SHOULDER	1	24	18	3.00						2												2	X										VP-396	144	
59.265 NB	SPEED LIMIT 65	1	48	60	20.00																													R2-1		
	MINIMUM 40	1	48	48	16.00						2												2		X									VR-141		E-142
												FT	FT	FT	FT 9.5	FT 37.9	FT		EA.	LB 146.2	LB	LB		LB 501.6	LB 315.0	LB	LB								
	SUBTOTALS SHEET 16	SF ~~154.63~~ 151.63	SF 205.50	EA.	SF		FT		FT 47.4			LB 146.2			EA. 7		LB 816.6			EA. 2	EA.	LB 889													

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

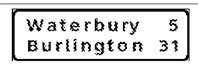
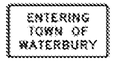
PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss main_NB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 16

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 68 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 17

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) lb/ft 3.0 1.3	4.0 1.7	4.0Mod 1.7	FND-ATION	TUBULAR STEEL DIA (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
59.490 NB MED		1	36	36	9.00						2					X		2															R3-4		
59.550 NB		1	108	36		27.00					2										X												138	
59.800 NB		1	48	60	20.00						2												2	X								VR-132	144	
59.800 NB MED		1	48	60	20.00						2												2	X								VR-132	144	
60.000 NB		1	12	36	~~3.00~~ 4.00						1					X		1														D10-2		E-139
60.880 NB		1	36	24	6.00						2					X		2														I-2		E-131

								FT	FT	FT	FT	FT 73.7	FT		EA.	LB	LB 54.4	LB		LB 440.8	LB	LB	LB						
SHEET TOTALS	SF ~~58.00~~ 55.00	SF 27.00	EA.	SF		FT			FT 73.7					LB 54.4		EA. 4			LB 440.8				EA.	EA.	LB				

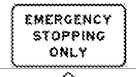
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_NB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
TRAFFIC SIGN SUMMARY SHEET # 17
SHEET 69 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 18

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
21.520 SB		1	48	60	20.00																												R2-1		
		1	48	48	16.00						2												2		X								VR-141		E-142
21.620 SB		1	48	48	16.00																												VW-397	144	
		1	24	18	3.00						2										X												VP-396	144	
21.720 SB		1	30	15	3.13																												M3-3 WHITE ON BLUE		
		1	36	36	9.00																												M1-1		
		1	36	36	9.00						1													1	X								M1-10		
21.820 SB		1	48	36	12.00						2										X												R8-7		
21.915 SB		1	48	48	16.00						2													2	X								VW-285	144	
21.892 - 52.528 SB		15	6	10	6.30						15				X			15															VD-701 NOT SHOWN ON PLANS	146	
22.150 SB		1	42	28	8.17						2					X		2																144	
22.150 SB		1	12	36	3.00						1				X			1															OM-3R		
22.150 SB MED		1	12	36	3.00						1				X			1															OM-3L		
22.245 - 58.940 SB		14	6	8	4.62						14				X			14															VD-700M NOT SHOWN ON PLANS	146	
22.255 SB MED		1	36	12	3.00						2					X		2															R6-1R		
22.330 SB		1	48	48	16.00						2										X												W4-1R		
22.367 SB		1	72	60		30.00					2													2	X									145	
												FT	FT	FT	FT 263.0	FT 63.4	FT		EA.	LB 96.6	LB 69.9	LB		LB 494.0	LB 324.9	LB	LB								
SUBTOTALS SHEET 18		SF 148.22	SF 30.00	EA.	SF							FT			FT 326.4					LB 166.5			EA. 7	LB 818.9				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 18

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 19

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 1.7	4.0Mod 1.7	FND-ATION	TUBULAR STEEL DIA (in) 3.0 lb/ft 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
22.640 SB	EXIT 3	1	96	30	20.00																													145	
	TO Bethel Royalton	1	210	120		175.00					2																	2		780	W8X21		Fuse-Plate Bolt Tension 28.4 kips	139	
22.949 SB	EXIT 3	1	96	30	20.00																													145	
	TO Bethel Royalton VT 107	1	210	138		201.25																												139	
	NEXT EXIT 8 MILES	1	162	24		27.00					2																			977	W10X22		Fuse-Plate Bolt Tension 30.6 kips RETAIN EXISTING FOUNDATIONS	145	
~~23.100~~ SB 22.098	Rutland VT Law School EXIT 3	1	192	84		112.00					2																	2		372	W6X12		Fuse-Plate Bolt Tension 12.9 kips	139	
~~23.300~~ SB 23.295	EXIT 3	1	96	30	20.00																													145	
	TO Bethel Royalton 1 MILE	1	210	144		210.00					2																	2		872	W8X21		Fuse-Plate Bolt Tension 35.1 kips	139	
23.749 SB	ENTERING TOWN OF ROYALTON	1	36	24	6.00						2					X		2															I-2		E-131
26.000 SB	MILE 26	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
26.708 SB	ENTERING TOWN OF BETHEL WINDSOR CO	1	36	30	7.50						2					X		2															I-2		E-131
27.000 SB	MILE 27	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
28.000 SB	MILE 28	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
29.000 SB	MILE 29	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
29.370 SB	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2													2	X							VR-132	144	
29.370 SB MED	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2													2	X							VR-132 NEW POSTS (14.17 + 14.75	144	
29.748 SB	PARKING AREA / WRONG WAY	1 1	78 36	78 24	~~6.00~~ 6.00	~~42.25~~ +42.25					2													2	X							BACK TO BACK R5-1a ORIGINAL SIGN DAMAGED BY CRASH, RESET NEW SIGN.	145	
												FT	FT	FT	FT	FT 104.8	FT		EA.	LB	LB	LB		LB 646.0	LB	LB	LB								
		SUBTOTALS SHEET 19			SF ~~131.50~~ 125.50	SF ~~767.50~~ 809.75	EA.	SF			FT				FT 104.8					LB				EA. 6	LB 646.0				EA. 6	EA.	LB 3001					

DAMAGED BY VEHICLE

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 19

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 71 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 20

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
29.750 SB	DAMAGED	1	18	18	2.25 ~~2.25~~						1				X			1																OM1-1 SIGN DAMAGED IN TRAFFIC ACCIDENT.		
29.900 SB	Bethel 10 White River Jct 31	1	144	36		36.00					2												2		X									140	
30.000 SB	30	1	12	36	3.00						1					X		1																D10-2		E-139
30.000 SB	SPEED LIMIT 65						1																													
	MINIMUM 40						1				2												2		X											
30.100 SB							1																													
	GROOVED SHOULDER						1				2												2	X												
30.200 SB	PARKING AREA 1/2 MILE	1	138	60		57.50					2												2				X							140	
30.365 SB	SOUTH						1																													
	89						1																													
	DESIGNATED INTERSTATE SYSTEM						1				1												1	X												
30.440 SB	EMERGENCY STOPPING ONLY	1	48	36	12.00						2												2	X										R8-7		
30.720 SB MED	ONE WAY	1	36	12	3.00						2					X		2																R6-1R		
31.000 SB	31	1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
31.050 SB	EXIT 4	1	72	60		30.00					2												2	X										145	
31.052 SB		1	18	18	2.25						1				X			1																OM1-1		
												FT	FT	FT	FT 19.0	FT 48.8	FT		EA.	LB	LB	LB		LB 691.6	LB 596.7	LB	LB 502.3								
	SUBTOTALS SHEET 20				SF ~~2.25~~ 25.50	SF 123.50	EA. 7	SF				FT			FT 67.8						LB			EA. 13	LB 1790.6				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 20

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 72 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 21

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 1.7	4.0Mod 1.7	FND-ATION	TUBULAR STEEL DIA (in) 3.0 lb/ft 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
31.200 SB	EXIT 4	1	96	30	20.00																													145	
	TO Randolph	1	156	126		136.50					2																	2		1082	W8X21		Fuse-Plate Bolt Tension 28.4 kips	133	
31.400 SB	H						1				2																	2		882	W8X18		Fuse-Plate Bolt Tension 20.5 kips		
31.570 SB	EXIT 4	1	96	30	20.00																													145	
	TO 12 Randolph VT RTE 66	1	156	114		123.50																												133	
	NEXT EXIT 10 MILES	1	96	48		32.00					2																	2		832	W8X21		Fuse-Plate Bolt Tension 28.4 kips	145	
31.820 SB	VT Veterans Cemetery VT Technical College EXIT 4	1	252	84		147.00					2																	2		545	W6X15		Fuse-Plate Bolt Tension 19.2 kips	133	
32.000 SB	M1-6 32	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
32.060 SB	EXIT 4	1	96	30	20.00																												NEW POSTS 9-22-10	145	
	TO Randolph 1 mile	1	156	114		123.50					2																	2		630	W8X18		Fuse-Plate Bolt Tension 19.2 kips	133	
33.000 SB	M1-6 33	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
33.495 SB MED	ONE WAY	1	36	12	3.00						2					X		2															R6-1R		
33.600 SB		1	48	48	16.00						2													2	X								W4-1R		
33.684 SB	NEXT EXIT 10 MILES	1	90	136		85.00					2													2			X							134	
33.690 SB		1	18	18	2.25						1				X			1															OM1-1		
34.000 SB	M1-6 34	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
35.000 SB	M1-6 35	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
												FT	FT	FT	FT 9.5	FT 70.2	FT		EA.	LB	LB	LB		LB 205.2	LB	LB	LB 535.9							
	SUBTOTALS SHEET 21	SF ~~93.25~~ 81.25	SF 647.50	EA. 1	SF				FT			FT 79.7								LB			EA. 4	LB 741.1				EA. 10	EA.	LB 3971					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 21

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 73 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 22

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FNDATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
36.000 SB	NEXT 36	1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
37.000 SB	NEXT 37	1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
38.000 SB	NEXT 38	1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
38.150 SB	TRAVEL INFO 100.1 FM	1	72	60		30.00					2												2		X									132	
39.000 SB	NEXT 39	1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
39.425 SB MED		1	36	36	9.00						2					X		2																R3-4		
40.000 SB	NEXT 40	1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
40.760 SB	ENTERING TOWN OF BROOKFIELD	1	36	24	6.00						2					X		2																I-2		E-131
41.000 SB	NEXT 41	1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
41.550 SB	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X										VR-132	144	
41.550 SB MED	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X										VR-132	144	
41.840 SB	Randolph 14 White River Jct 43	1	144	36		36.00					2												2		X										140	
41.905 SB MED		1	36	36	9.00						2					X		2																R3-4		
42.000 SB	NEXT 42	1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
42.055 SB	SPEED LIMIT 65	1	48	60	20.00																													R2-1		
	MINIMUM 40	1	48	48	16.00						2												2		X									VR-141		E-142
SUBTOTALS SHEET 22					SF ~~121.00~~ 100.00	SF 66.00	EA.	SF				FT	FT	FT	FT 170.1	FT	FT	EA.		LB	LB	LB	EA. 10	LB 440.8	LB 938.7	LB	LB	EA.	EA.	LB						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME:	ROYALTON - MIDDLESEX
PROJECT NUMBER:	IMG SIGN(19)
FILE NAME:	090106_tss_main_SB.xls
PROJECT LEADER:	CRB
DESIGNED BY:	BDB
TRAFFIC SIGN SUMMARY SHEET # 22	
PLOT DATE:	8/12/2009
DRAWN BY:	SRB
CHECKED BY:	DAM
SHEET	74 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 23

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
42.150 SB		1	48	48	16.00																												VW-397	144	
	GROOVED SHOULDER	1	24	18	3.00						2										X												VP-396	144	
42.245 SB	SOUTH	1	30	15	3.13																												M3-3 WHITE ON BLUE		
	89	1	36	36	9.00																												M1-1		
	HIGH OCCUPANCY VEHICLE STATE	1	36	36	9.00						1												1	X									M1-10		
42.320 SB	EMERGENCY STOPPING ONLY	1	48	36	12.00						2												2	X									R8-7		
42.571 SB MED	ONE WAY	1	36	12	3.00						2					X		2															R6-1R		
42.740 SB		1	48	48	16.00						2									X													W4-1R		
43.000 SB	4 3	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
43.075 SB	EXIT 5	1	72	60		30.00					2												2	X										145	
43.078 SB		1	18	18	2.25						1				X			1															OM1-1		
43.240 SB	EXIT 5	1	96	30	20.00																													145	
	10 Northfield Williamstown	1	210	120		175.00					2																		2		1067	W10X22		Fuse-Plate Bolt Tension 28.4 kips SEE FOOTING DETAIL ON SHEET 3	135	
43.241 SB MED		1	36	36	9.00						2					X		2															R3-4		
43.390 SB		1	144	144		144.00					2																		2		843	W8X18		Fuse-Plate Bolt Tension 20.4 kips	135	
											FT	FT	FT		FT	FT	FT		EA.	LB	LB	LB		LB	LB	LB	LB								
															9.5	70.5				49.6	69.9			478.8											
	SUBTOTALS SHEET 23	SF	~~105.38~~ 102.38		SF 349.00	EA.	SF				FT				FT 80.0					LB 119.5			EA. 5	LB 478.8				EA. 4	EA.	LB 1910					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 23

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 75 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 24

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) lb/ft 3.0 1.3	4.0 1.7	4.0Mod 1.7	FND-ATION	TUBULAR STEEL DIA (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
43.540 SB	EXIT 5	1	96	30	20.00																													145	
	91 North Field Williamstown	1	210	138		201.25																												135	
	NEXT EXIT 13 MILES	1	162	24		27.00					2																	2		1225	W10X26		Fuse-Plate Bolt Tension 30.5 kips	145	
~~43.700~~ SB 43.712	Brookfield Norwich University EXIT 5	1	234	84		136.50					2																	2		498	W6X15		Fuse-Plate Bolt Tension 19.2 kips	140	
44.000 SB	44	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
44.250 SB	EXIT 5	1	96	30	20.00																													145	
	91 Northfield Williamstown	1	210	144		210.00					2																	2		1056	W10X22		Fuse-Plate Bolt Tension 29 kips	134	
45.000 SB	45	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
~~45.695~~ 7 SB	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2										X												VR-132	144	
~~45.695~~ 7 SB MED	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2													2	X								VR-132	144	
45.945 SB	Northfield 8 White River Jct 47	1	144	36		36.00					2													2		X								140	
46.000 SB	46	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
46.100 SB	SPEED LIMIT 65	1	48	60	20.00																												R2-1		
	MINIMUM 40	1	48	48	16.00						2													2		X								VR-141		E-142
~~46.200~~ SB 46.166		1	48	48	16.00																												VW-397 LEDGE ROCK IN AREA. MOVED SIGN SOUTH 182' AND STILL HAD TO PIN.	144	
	GROOVED SHOULDER	1	24	18	3.00						2													2	X								VP-396	144	
46.257 SB	ENTERING TOWN OF WILLIAMSTOWN ORANGE CO.	1	36	30	7.50						2					X		2															I-2		E-131
												FT	FT	FT	FT	FT 63.1	FT		EA.	LB	LB 71.6	LB		LB 433.2	LB 578.7	LB	LB							
	SUBTOTALS SHEET 24				SF ~~151.50~~ 142.50	SF 610.75	EA.	SF				FT			FT 63.1					LB 71.6			EA. 8	LB 1011.9				EA. 6	EA.	LB 2779					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 24

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 76 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 25

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
46.350 SB	SOUTH	1	30	15	3.13																												M3-3 WHITE ON BLUE		
	89	1	36	36	9.00																												M1-1		
	BIKE ROUTE 7 SHARE THE ROAD SYSTEM	1	36	36	9.00						1												1	X								M1-10		
46.366 SB MED		1	36	36	9.00						2					X		2														R3-4		
46.430 SB	EMERGENCY STOPPING ONLY	1	48	36	12.00						2												2	X								R8-7		
46.680 SB MED	ONE WAY	1	36	12	3.00						2					X		2														R6-1R		
46.760 SB		1	48	48	16.00						2												2	X								W4-1R		
46.813 SB	EXIT 6	1	72	60		30.00					2												2	X									145		
46.815 SB		1	18	18	2.25						1				X			1														OM1-1		
46.840 SB	RAMP 30 MPH	1	48	60	20.00						2										X											W13-3		
46.940 SB	EXIT 6	1	96	30	20.00																												145		
	10 South Barre Barre	1	198	126		173.25					2																	2		899	W8X21		Fuse-Plate Bolt Tension 28.4 kips	136	
47.000 SB	MILE 4 7	1	12	36	~~3.00~~ 4.00						1					X		1														D10-2		E-139
47.200 SB	TRUCKS USE EXIT 6 TO WILLIAMSTOWN STEEP GRADES ON RT 64	1	180	102		127.50					2																	2		798	W8X18		Fuse-Plate Bolt Tension 19.2 kips SEE FOOTING DETAIL ON SHEET 3	135	
~~47.360~~ SB 47.382	MOVED	1	144	144		144.00					2																	2		720	W8X18		Fuse-Plate Bolt Tension 19.8 kips	136	
47.488 SB MED		1	36	36	9.00						2					X		2														R3-4		
												FT	FT	FT	FT 9.5	FT 103.1	FT		EA.	LB	LB 68.2	LB		LB 684.0	LB	LB	LB							
	SUBTOTALS SHEET 25	SF ~~115.38~~ 112.38	SF 474.75	EA.	SF				FT			FT 112.6								LB 68.2			EA. 7	LB 684.0				EA. 6	EA.	LB 2417					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 25

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 77 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 26

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
47.510 SB	EXIT 6	1	96	30	20.00																													145	
	91 South Barre Barre	1	198	138		189.75																												136	
	NEXT EXIT 5 MILES	1	96	48		32.00						2																	2		1217	W10X26		Fuse-Plate Bolt Tension 30.1 kips	145	
47.660 SB	Granite Quarries EXIT 6	1	120	84		70.00						2											2				X							141	
47.815 SB	EXIT 6	1	96	30	20.00																													145	
	91 South Barre Barre	1	198	144		198.00						2																	2		920	W8X21		Fuse-Plate Bolt Tension 33.4 kips	135	
48.000 SB	ROUTE 4 8	1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
48.965 SB		1	48	48	16.00																													W11-3		
	NEXT 3 MILES	1	30	24	5.00						2										X													144	
49.000 SB	ROUTE 4 9	1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
49.220 SB	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X										VR-132	144	
49.220 SB MED	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X										VR-132	144	
49.470 SB	South Barre 6 White River Jct 51	1	144	36		36.00					2												2	X											141	
49.820 SB MED		1	36	36	9.00						2					X		2																R3-4		
49.870 SB	SPEED LIMIT 65	1	48	60	20.00																													R2-1		
	MINIMUM 40	1	48	48	16.00						2												2		X									VR-141		E-142
												FT	FT	FT	FT	FT 53.8	FT		EA.	LB	LB 71.6	LB		LB 630.8	LB 315.0	LB	LB 547.5								
	SUBTOTALS SHEET 26	SF ~~152.00~~ 146.00	SF 525.75	EA.	SF				FT		FT 53.8				LB 71.6			EA. 10	LB 1493.3				EA. 4	EA.	LB 2137									

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

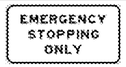
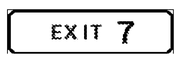
PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 26

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 78 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 27

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
50.015 SB		1	48	48	16.00																												VW-397	144	
		1	24	18	3.00						2										X												VP-396	144	
50.110 SB		1	30	15	3.13																												M3-3 WHITE ON BLUE		
		1	36	36	9.00																												M1-1		
		1	36	36	9.00						1												1	X									M1-10		
50.185 SB		1	48	36	12.00						2												2	X									R8-7		
50.400 SB MED		1	36	12	3.00						2					X		2															R6-1R		
50.500 SB		1	48	48	16.00						2												2	X									W4-1R		
50.605 SB		1	72	60		30.00					2												2	X										145	
50.606 SB		1	18	18	2.25						1				X			1															OM1-1		
50.741 SB MED		1	36	36	9.00						2					X		2															R3-4		
50.856 SB MED		1	36	36	9.00						2					X		2															R3-4		
50.930 SB		1	96	30	20.00																													145	
		1	156	138		149.50					2																		2		1055	W8X21		Fuse-Plate Bolt Tension 28.4 kips	141	
51.000 SB		1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
51.080 SB		1	144	144		144.00					2																		2		845	W8X18		Fuse-Plate Bolt Tension 20.5 kips	137	
												FT	FT	FT	FT 9.5	FT 103.3	FT		EA.	LB	LB 69.9	LB		LB 684.0	LB	LB	LB								
	SUBTOTALS SHEET 27	SF ~~114.38~~ 111.38	SF 323.50	EA.	SF			FT			FT 112.8				LB 69.9			EA. 7		LB 684.0				EA. 4	EA.	LB 1900								

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 27

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 79 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 28

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
51.230 SB	EXIT 7	1	96	30	20.00																													145	
	US 302 Berlin Barre VT 62	1	156	138		149.50					2																	2		830	W8X21		Fuse-Plate Bolt Tension 28.4 kips	136	
51.380 SB	Edward F. Knapp State Airport EXIT 7	1	216	84		126.00					2																	2		516	W6X15		Fuse-Plate Bolt Tension 19.2 kips	136	
51.615 SB	EXIT 7	1	96	30	20.00																													145	
	US 302 Berlin Barre VT 62	1	156	144		156.00					2																	2		1015	W8X21		Fuse-Plate Bolt Tension 28.6 kips	136	
52.000 SB	52	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
52.105 SB	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X									VR-132	144	
52.105 SB MED	KEEP RIGHT EXCEPT TO PASS	1	48	60	20.00						2												2	X									VR-132	144	
52.179 SB	ENTERING TOWN OF BERLIN	1	36	24	6.00						2					X		2															I-2		E-131
52.220 SB	Barre NEXT 2 EXITS	1	132	54		49.50					2												2			X								141	
52.355 SB	Barre 6 White River Jct 54	1	144	36		36.00					2												2		X									141	
52.389 SB MED		1	36	36	9.00						2					X		2															R3-4		
52.500 SB	SPEED LIMIT 65	1	48	60	20.00																												R2-1		
	MINIMUM 40	1	48	48	16.00						2												2		X								VR-141		E-142
52.590 SB		1	48	48	16.00																												VW-397	144	
	GROOVED SHOULDER	1	24	18	3.00						2										X												VP-396	144	
												FT	FT	FT	FT	FT 73.9	FT		EA.	LB	LB 69.9	LB		LB 440.8	LB 606.6	LB 306.8	LB								
	SUBTOTALS SHEET 28	SF ~~153.00~~ 150.00	SF 517.00	EA.	SF				FT		FT 73.9				LB 69.9			EA. 10	LB 1354.2				EA. 6	EA.	LB 2361									

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

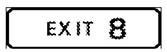
PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 28

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 80 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 29

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
52.673 SB		1	30	15	3.13																												M3-3 WHITE ON BLUE		
		1	36	36	9.00																												M1-1		
		1	36	36	9.00						1												1	X								M1-10		
52.756 SB		1	48	48	16.00						2												2	X								W8-13		
53.000 SB		1	12	36	~~3.00~~ 4.00						1					X		1														D10-2		E-139
53.010 SB MED		1	36	12	3.00						2					X		2														R6-1R		
53.110 SB		1	48	48	16.00						2												2	X								W4-1R		
53.178 SB		1	72	60		30.00					2												2	X									145	
53.179 SB		1	18	18	2.25						1				X			1														OM1-1		
53.350 SB		1	96	30	20.00																													145	
		1	216	120		180.00					2																	2		893	W8X21		Fuse-Plate Bolt Tension 28.4 kips	141	
53.350 SB MED		1	36	36	9.00						2					X		2														R3-4		
53.540 SB		1	12	36	3.00						1				X			1														OM-3L		
53.540 SB MED		1	12	36	3.00						1				X			1														OM-3R		
53.550 SB		1	144	144		144.00					2																	2		1258	W8X21		MOVED TO 6.0' OFF RAIL Fuse-Plate Bolt Tension 28.4 kips	137	
53.620 SB MED		1	36	48	12.00						2					X		2														W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
53.647 SB MED		1	36	48	12.00						2					X		2														W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
												FT	FT	FT	FT 34.7	FT 146.6	FT		EA.	LB	LB	LB		LB 699.2	LB	LB	LB							
	SUBTOTALS SHEET 29	SF ~~120.38~~ 117.38	SF 354.00	EA.	SF			FT			FT 181.3			LB	EA. 7		LB 699.2		EA. 4	EA.	LB 2151											

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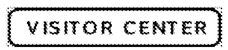
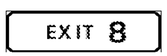
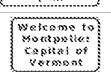
PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 29

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 81 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 30

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
53.682 SB MED		1	36	48	12.00						2					X		2															W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
53.695 SB		1	48	48	16.00						2									X													W8-13		
53.710 SB MED		1	36	48	12.00						2					X		2															W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
53.745 SB MED		1	36	48	12.00						2					X		2															W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
53.787 SB MED		1	36	48	12.00						2					X		2															W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
53.834 SB MED		1	36	48	12.00						2					X		2															W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
53.850 SB		1	96	30	20.00																														145	
		1	216	138		207.00																														141	
		1	114	24	19.00						2																			2		1019	W10X22		Fuse-Plate Bolt Tension 30.3 kips	145	
53.863 SB MED		1	36	48	12.00						2					X		2															W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
54.000 SB		1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
54.049 SB		1	48	48	16.00						2									X													W1-2R		
54.049 SB MED		1	48	48	16.00						2												2	X									W1-2R		
54.102 SB		1	36	24	6.00						2					X		2															I-2		E-131
54.150 SB		1	96	30	20.00																												MOVED TO 6.0' OFF RAIL	145	
		1	216	144		216.00					2																			2		935	W10X22		Fuse-Plate Bolt Tension 29.5 kips	141	
54.304 SB		1	156	108		117.00 +39	NEW	FRENCH	"WELCOME"	SIGN	2																			2		620	W6X15		Fuse-Plate Bolt Tension 19.2 kips	137	
												FT	FT	FT	FT	FT 267.6	FT		EA.	LB 99.2	LB	LB		LB 205.2	LB	LB	LB								
SUBTOTALS SHEET 30					SF ~~188.00~~ 185.00	SF ~~540.00~~ 579.00	EA.	SF			FT				FT 267.6					LB 99.2			EA. 2	LB 205.2				EA. 6	EA.	LB 2574						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

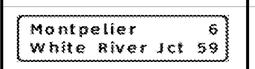
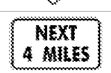
PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 30

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 82 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 31

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
54.807 SB		1	12	36	3.00						1				X			1																OM-3R		
54.807 SB MED		1	12	36	3.00						1				X			1																OM-3L		
54.906 SB MED		1	36	36	9.00						2					X		2																R3-4		
54.925 SB		1	48	48	16.00						2									X														W8-13		
55.000 SB		1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
55.259 SB		1	48	48	16.00						2												2	X											145	
56.000 SB		1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
56.048 SB MED		1	36	36	9.00						2					X		2																R3-4		
57.000 SB		1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
57.600 SB		1	48	60	20.00						2										X													VR-132	144	
57.600 SB MED		1	48	60	20.00						2												2	X											VR-132	144	
57.752 SB MED		1	36	36	9.00						2					X		2																R3-4		
57.850 SB		1	144	36		36.00					2												2		X										141	
57.950 SB		1	48	48	16.00																													VW-001	144	
		1	30	24	5.00						2										X														144	
58.000 SB		1	12	36	~~3.00~~ 4.00						1					X		1																D10-2		E-139
54.500	MOVE OVER SIGN					60.5																														
												FT	FT	FT	FT	FT	FT		EA.	LB	LB	LB		LB	LB	LB	LB									
															25.2	140.0				49.6	143.2			422.6	289.8											
	SUBTOTALS SHEET 31	SF ~~138.00~~ 126.00	SF ~~36.00~~ 96.50	EA.	SF			FT			FT 165.2				LB 192.8			EA. 6		LB 712.4				EA.	EA.	LB									

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 31

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 83 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 32

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
58.070 SB	SPEED LIMIT 65	1	48	60	20.00																												R2-1		
	MINIMUM 40	1	48	48	16.00						2												2		X								VR-141		E-142
58.160 SB		1	48	48	16.00																												VW-397	144	
	GROOVED SHOULDER	1	24	18	3.00						2										X												VP-396	144	
58.255 SB	SOUTH	1	30	15	3.13																												M3-3 WHITE ON BLUE		
	INTERSTATE 89	1	36	36	9.00																												M1-1		
	REST AREA 1 MILE	1	36	36	9.00						1												1	X									M1-10		
58.330 SB	EMERGENCY STOPPING ONLY	1	48	36	12.00						2												2	X									R8-7		
58.339 SB MED		1	36	36	9.00						2					X		2															R3-4		
58.585 SB MED	ONE WAY	1	36	12	3.00						2					X		2															R6-1R		
58.690 SB		1	48	48	16.00						2									X													W4-1R		
58.810 SB		1	48	48	16.00						2									X													W8-13		
58.846 SB	EXIT 9	1	72	60		30.00					2												2	X										145	
58.850 SB		1	18	18	2.25						1				X			1															OM1-1		
59.000 SB	59	1	12	36	~~3.00~~ 4.00						1					X		1															D10-2		E-139
											FT	FT	FT		FT	FT	FT		EA.	LB	LB	LB		LB	LB	LB	LB								
															9.5	70.5				99.2	69.9			478.8	315.0										
	SUBTOTALS SHEET 32	SF	~~137.38~~ 134.38	SF	30.00	EA.	SF			FT				FT	80.0			LB	169.1		EA.	7	LB	793.8		EA.	EA.	LB							

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PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 32

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 84 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 33

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	FND-ATION	TUBULAR STEEL DIA (in) 3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
59.000 SB	EXIT 9	1	96	30	20.00																														145	
	2 TO Middlesex Montpelier Moretown	1	162	156		175.50																													138	
	STATE POLICE	1	30	30	6.25						2																		2		1103	W10X22		Fuse-Plate Bolt Tension 28.4 kips SEE FOOTING DETAIL ON SHEET 3		E-132
59.300 SB	EXIT 9	1	96	30	20.00																														145	
	2 TO Middlesex Montpelier Moretown	1	162	138		155.25																													138	
	NEXT EXIT 7 MILES	1	162	24		27.00					2																		2		954	W8X21		Fuse-Plate Bolt Tension 31.1 kips	145	
59.507 SB MED		1	36	36	9.00						2					X			2															R3-4		
59.870 SB	EXIT 9	1	96	30	20.00																														145	
	2 TO Middlesex Montpelier Moretown	1	162	144		162.00					2																		2		1002	W8X21		Fuse-Plate Bolt Tension 29.4 kips	138	
60.000 SB	60	1	12	36	~~3.00~~ 4.00						1					X			1															D10-2		E-139
60.880 SB	ENTERING TOWN OF MIDDLESEX	1	36	24	6.00						2					X			2															I-2		E-131

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

		FT	FT	FT	FT	FT 76.4	FT		EA.	LB	LB	LB		LB	LB	LB	LB																		
SUBTOTALS SHEET 33	SF ~~84.25~~ 81.25	SF 519.75	EA.	SF		FT		FT 76.4		LB			EA.	LB				EA. 6	EA.	LB 3059																	

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_main_SB.xls
PROJECT LEADER: CRB
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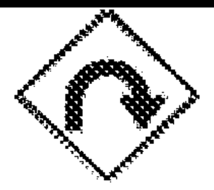
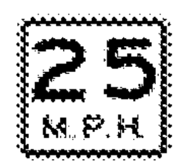
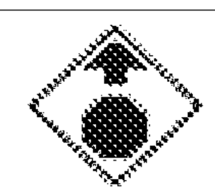
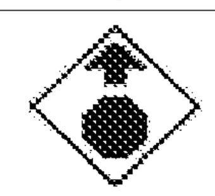
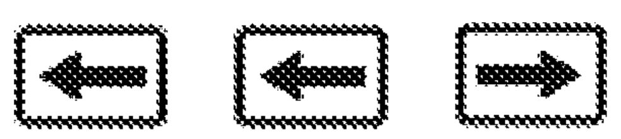
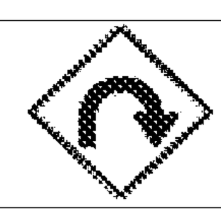
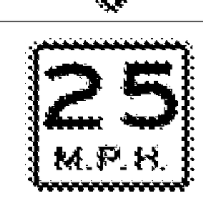
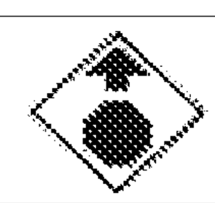
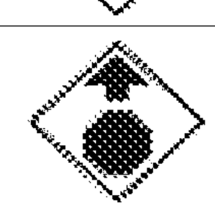
TRAFFIC SIGN SUMMARY SHEET # 33

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 85 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 34

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	SIGN DIMENSIONS WIDTH (in)	SIGN DIMENSIONS HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	FLANGED CHANNEL lb/ft 2.0	FLANGED CHANNEL lb/ft 3.0	SQUARE STEEL (in) 1.75 (1.88 lb/ft)	SQUARE STEEL (in) 2.0 (2.42 lb/ft)	SQUARE STEEL (in) 2.5 (3.35 lb/ft)	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 (1.3 lb/ft)	TUBULAR ALUMINUM DIA (in) 4.0 (1.7 lb/ft)	TUBULAR ALUMINUM DIA (in) 4.0Mod (1.7 lb/ft)	FND-ATION	TUBULAR STEEL DIA (in) 3.0 (7.6 lb/ft)	TUBULAR STEEL DIA (in) 3.5 (9.0 lb/ft)	TUBULAR STEEL DIA (in) 4.0 (10.8 lb/ft)	TUBULAR STEEL DIA (in) 5.0 (14.6 lb/ft)	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	SIGN DETAIL: STD. SHEET NUMBER
INT #3 0.120 RAMP B RT		1	36	36	9.00																												W1-11R		
		1	24	24	4.00						2					X		2															W13-1		
0.160 RAMP B LT							1				2					X		2																	
0.160 RAMP B RT							1				2					X		2																	
0.210 RAMP B RT		1	24	12	2.00		1 1																										M4-5 GREEN ON WHITE		
		1	24	24	4.00		1 1																										M1-5		E-136B
		1	21	15	2.19		1 1				2										X											#3B	M6-1L GREEN ON WHITE		
INT #3 0.080 RAMP C RT		1	30	30	6.25																												W1-11R		
		1	18	18	2.25						2					X		2															W13-1		
INT #3 0.110 RAMP D LT							1				2					X		2																	
0.110 RAMP D RT							1				2					X		2																	
												FT	FT	FT	FT	FT 180.4	FT		EA.	LB	LB 62.4	LB		LB	LB	LB	LB								
SUBTOTALS SHEET 34					SF 29.69	SF	EA. 10	SF				FT			FT 180.4					LB 62.4			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME:	090106_tss_int3.xls	PLOT DATE:	8/12/2009
PROJECT LEADER:	CRB	DRAWN BY:	JH
DESIGNED BY:	BDB	CHECKED BY:	DAM
TRAFFIC SIGN SUMMARY SHEET # 34		SHEET 86 OF 163	

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 35

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.150 RAMP D RT	EAST WEST						1 1																												
	VERMONT 107 VERMONT 107						1 1																												
							1 1																										#2B			
	TO TO	1 1	24 24	12 12	2.00 2.00																											M4-5 GREEN ON WHITE M4-5 GREEN ON WHITE		
	VERMONT 14 VERMONT 100	1 1	24 30	24 24	4.00 5.00																											M1-5 M1-5		E-136B E-136B
		1 1	21 21	15 15	2.19 2.19						2												2	X							#2A	M6-1L GREEN ON WHITE M6-1R GREEN ON WHITE		
INT #3 1.560 VT 107 RT	JCT	1	21	15	2.19																											M2-1 WHITE ON BLUE		
	89	1	24	24	4.00						1					X		1														M1-1		
1.600 VT 107 RT	BARRE 30 MONTPELIER 32 WHITE RIVER JCT 24	1 1 1	72 72 72	12 12 12	6.00 6.00 6.00						2										X												D1-1a D1-1a D1-1a		E-123 E-123 E-123
1.626 VT 107 CL		1	24	30	5.00																											R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1													OM1-1 BACK TO BACK OM1-1		
1.640 VT 107 LT	BETHEL 3 RUTLAND 35	1 1	72 72	12 12	6.00 6.00						2					X		2														D2-1 D2-1		E-123 E-123
1.640 VT 107 RT	SOUTH NORTH EAST	1 1 1	24 24 24	12 12 12	2.00 2.00 2.00																											M3-3 WHITE ON BLUE M3-1 WHITE ON BLUE M3-2 GREEN ON WHITE		
	89 89 VERMONT 107	1 1 1	24 24 30	24 24 24	4.00 4.00 5.00																											M1-1 M1-1 M1-5		 E-136B
		1 1 1	21 21 21	15 15 15	2.19 2.19 2.19						2										X										#3A	M6-1L WHITE ON BLUE M6-3 WHITE ON BLUE M6-3 GREEN ON WHITE		
1.680 VT 107 RT	ONLY	1	30	30	6.25						1					X		1														VR-921L		E-145A
											FT	FT	FT	FT	FT 73.9	FT		EA. 1	LB 45.9	LB 65.8	LB		LB 234.9	LB	LB	LB							
SUBTOTALS SHEET 35		SF 94.89	SF	EA. 6	SF			FT				FT 73.9				LB 111.7		EA. 2		LB 234.9				EA.	EA.	LB							

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

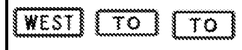
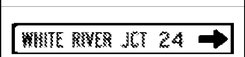
PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int3.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 35

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 36

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
1.690 VT 107 LT		1	24	12	2.00																												M3-4 GREEN ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
		1	30	24	5.00																												M1-5		E-136B
		1	30	24	5.00						2												2	X							#3C	M1-5		E-136B
		1	24	24	4.00																												M1-5		E-136B
1.721 VT 107 RT		1	24	12	2.00																												M3-2 GREEN ON WHITE		
		1	24	12	2.00																												M3-4 GREEN ON WHITE		
		1	30	24	5.00																												M1-5		E-136B
		1	30	24	5.00																												M1-5		E-136B
		1	21	15	2.19																												M6-1L GREEN ON WHITE		
		1	21	15	2.19																											#2B	M6-1R GREEN ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
		1	24	24	4.00																												M1-5		E-136B
		1	30	24	5.00																												M1-5		E-136B
		1	21	15	2.19																												M6-1L GREEN ON WHITE		
		1	21	15	2.19						2												2	X							#2A	M6-1R GREEN ON WHITE		
1.721 VT 107 CL		1	24	30	5.00																												R4-7		
		1	18	18	2.25																												OM1-1		
		1	18	18	2.25						1					X			1	1												BACK TO BACK OM1-1		
1.739 VT 107 CL		1	24	30	5.00																												R4-7		
		1	18	18	2.25																												OM1-1		
		1	18	18	2.25						1					X			1	1												BACK TO BACK OM1-1		
1.750 VT 107 LT		1	24	12	2.00																												M3-3 WHITE ON BLUE		
		1	24	12	2.00																												BACK TO BACK M3-3 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	24	24	4.00																												BACK TO BACK M1-1		
		1	21	15	2.19																												M6-1R WHITE ON BLUE		
		1	21	15	2.19						1					X			1													BACK TO BACK M6-1L WHITE ON BLUE		
1.780 VT 107 RT		1	72	12	6.00 6.00	OOC #1					2					X			2														D1-1a		E-123
1.800 VT 107 LT		1	72	12	6.00						2					X			2														D1-1a		E-123
												FT	FT	FT	FT	FT 102.7	FT		EA. 2	LB	LB	LB		LB 418.9	LB	LB	LB								
SUBTOTALS SHEET 36		SF ~~103.14~~ 109.14		SF	EA.	SF			FT			FT 102.7								LB			EA. 4	LB 418.9				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

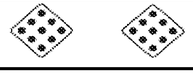
PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int3.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 36

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 88 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 37

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
1.840 VT 107 RT		1	24	12	2.00																												M3-1 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						1					X		1															M5-1L WHITE ON BLUE		
1.870 VT 107 LT		1	24	12	2.00																												M3-3 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						1					X		1															M5-1R WHITE ON BLUE		
1.880 VT 107 RT		1	30	30	6.25						1					X		1															VR-921L		E-145A
1.942 VT 107 CL		1	24	30	5.00																												R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1														OM1-1 BACK TO BACK OM1-1		
1.942 VT 107 RT		1 1 1	24 24 24	12 12 12	2.00 2.00 2.00																												M3-2 GREEN ON WHITE M4-5 GREEN ON WHITE M3-4 GREEN ON WHITE		
		1 1 1	30 24 30	24 24 24	5.00 4.00 5.00																												M1-5 M1-5 M1-5		E-136B E-136B E-136B
		1 1 1	21 21 21	15 15 15	2.19 2.19 2.19						2										X											#3B	M6-1L GREEN ON WHITE M6-1L GREEN ON WHITE M6-1R GREEN ON WHITE		
1.942 VT 107 RT		1	24	12	2.00																												M3-1 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						1					X		1															M6-1L WHITE ON BLUE		
1.954 VT 107 CL		1	24	30	5.00																												R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1														OM1-1 BACK TO BACK OM1-1		
												FT	FT	FT	FT	FT 88.4	FT		EA. 2	LB	LB 65.8	LB		LB	LB	LB	LB							
	SUBTOTALS SHEET 37		SF 76.39	SF	EA.	SF			FT			FT 88.4								LB 65.8			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

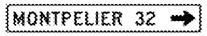
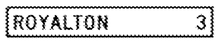
PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int3.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 37

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 89 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 38

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
1.960 VT 107 LT		1	24	12	2.00																												M3-4 GREEN ON WHITE		
		1	24	12	2.00																												M3-3 WHITE ON BLUE		
		1	24	12	2.00																												M3-1 WHITE ON BLUE		
		1	30	24	5.00																												M1-5		E-136B
		1	24	24	4.00																												M1-1		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19																												M6-3 GREEN ON WHITE		
		1	21	15	2.19																											#3A	M6-3 WHITE ON BLUE		
		1	21	15	2.19																												M6-1R WHITE ON BLUE		
		1	24	12	2.00																												M3-1 WHITE ON BLUE BACK TO BACK		
		1	24	24	4.00																												M1-1 BACK TO BACK		
		1	21	15	2.19						2												2	X									M6-1L WHITE ON BLUE BACK TO BACK		
1.970 VT 107 RT		1	24	12	2.00																												M3-2 GREEN ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
		1	30	24	5.00						2				X		2															M1-5		E-136B
		1	24	24	4.00																										#1A	M1-5		E-136B
2.000 VT 107 LT		1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00						2												2	X								D1-1a		E-123
2.000 VT 107 RT		1	72	12	6.00						2				X		2															D2-1		E-123
2.008 VT 107 CL		1	24	30	5.00																												R4-7		
		1	18	18	2.25						1				X		1	1														OM1-1		
		1	18	18	2.25																												BACK TO BACK OM1-1		
2.038 VT 107 LT		1	21	15	2.19																												M2-1 WHITE ON BLUE		
		1	24	24	4.00						1				X		1															M1-1		
2.040 VT 107 RT		1	30	30	6.25						1				X		1															W10-2		
												FT	FT	FT	FT	FT 108.5	FT		EA. 1	LB	LB	LB		LB 363.4	LB	LB	LB							
SUBTOTALS SHEET 38		SF 92.70	SF	EA.	SF				FT			FT 108.5								LB			EA. 4	LB 363.4				EA.	EA.	LB				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

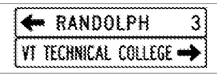
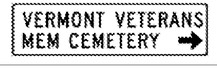
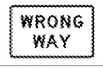
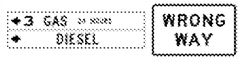
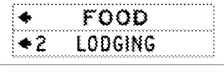
PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int3.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 38

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 90 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 39

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT #4 0.030 RAMP A RT		1	36	36	9.00																													VR-046		E-142
		1	36	36	9.00						2												2	X									VR-002		E-142
0.155 RAMP A RT		1	30	30	6.25						1					X		1															R3-2		
INT #4 0.100 RAMP B RT		1	36	36	9.00						2					X		2															W3-1		
0.150 RAMP B RT		1	24	12	2.00																												M3-4 GREEN ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
		1	24	12	2.00																												M3-2 GREEN ON WHITE		
		1	24	24	4.00																												M1-5		E-136B
		1	24	24	4.00																												M1-5		E-136B
		1	24	24	4.00																												M1-5		E-136B
		1	21	15	2.19																												M6-1L GREEN ON WHITE		
		1	21	15	2.19						2												2	X								#3	M6-1L GREEN ON WHITE		
		1	21	15	2.19																												M6-1R GREEN ON WHITE		
0.200 RAMP B RT		1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00																												D1-1		E-123
		1	72	20	10.00						2												2	X									D1-2		E-123
0.250 RAMP B LT		1	36	24	6.00																												R5-1a		
		1	24	24	4.00						2					X		2															R9-4a		
0.250 RAMP B RT		1	72	10	5.00																												VD-502G		E-133
		1	72	10	5.00																												VD-502G		E-133
		1	36	24	6.00																												R5-1a BACK TO BACK		
		1	72	10	5.00																												VD-502F		E-133
		1	72	10	5.00																												VD-502L		E-133
		1	72	10	5.00						2												2	X									VD-502H		E-133
		1	72	10	5.00																												VD-502C		E-133

												FT	FT	FT	FT	FT 72.3	FT		EA.	LB	LB	LB		LB 755.7	LB	LB	LB								
	SUBTOTALS SHEET 39	SF	SF	EA.	SF		FT		FT		LB	EA.	LB	EA.	EA.	LB																			
		125.82							72.3			8	755.7																						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int4.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 39

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 91 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 40

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.301 RAMP B LT	STOP / DO NOT ENTER	1	30	30	6.25																												R1-1		
		1	30	30	6.25																												BACK TO BACK		
																																	R5-1		
	ONE WAY / ONE WAY	1	36	12	3.00						1					X		1															R6-1L		
		1	36	12	3.00																												BACK TO BACK		
																																	R6-1R		
0.301 RAMP B RT	STOP / DO NOT ENTER	1	30	30	6.25																												R1-1		
		1	30	30	6.25																												BACK TO BACK		
																																	R5-1		
	ONE WAY / ONE WAY	1	36	12	3.00						1					X		1															R6-1L		
		1	36	12	3.00																												BACK TO BACK		
																																	R6-1R		
INT #4 0.070 RAMP C RT		1	36	36	9.00						2					X		2															W3-1		
0.110 RAMP C RT	EAST WEST TO	1	24	12	2.00																												M3-2 GREEN ON WHITE		
		1	24	12	2.00																												M3-4 GREEN ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
	VERMONT 66 / VERMONT 66 / VERMONT 12	1	24	24	4.00																												M1-5		E-136B
		1	24	24	4.00																												M1-5		E-136B
		1	24	24	4.00																												M1-5		E-136B
		1	21	15	2.19																												M6-1L GREEN ON WHITE		
		1	21	15	2.19						2										X										#3	M6-1R GREEN ON WHITE		
		1	21	15	2.19																												M6-1R GREEN ON WHITE		
0.150 RAMP C RT	VT TECHNICAL COLLEGE / VERMONT VETERANS MEM CEMETERY	1	72	12	6.00																												D1-1		E-123
		1	72	20	10.00																												D1-2		E-123
	RANDOLPH 3	1	72	12	6.00						2										X											D1-1a		E-123
0.190 RAMP C LT	WRONG WAY	1	36	24	6.00																												R5-1a		
		1	24	24	4.00						2					X		2															R9-4a		
0.190 RAMP C RT	GAS 3 / DIESEL / WRONG WAY	1	72	10	5.00																												VD-502G		E-133
		1	72	10	5.00																												VD-502G		E-133
		1	36	24	6.00																												R5-1a BACK TO BACK		
	FOOD / LODGING 2	1	72	10	5.00																												VD-502F		E-133
		1	72	10	5.00																												VD-502L		E-133
	HOSPITAL 3 / 1 CAMPING 5	1	72	10	5.00						2										X											VD-502H		E-133
		1	72	10	5.00																												VD-502C		E-133
												FT	FT	FT	FT	FT 89.6	FT		EA.	LB	LB 192.8	LB		LB	LB	LB	LB								
SUBTOTALS SHEET 40		SF 138.57	SF	EA.	SF							FT			FT 89.6					LB 192.8			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

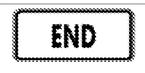
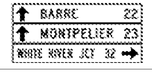
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int4.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 40

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 92 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 41

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.235 RAMP C LT		1	30	30	6.25																												R1-1		
		1	30	30	6.25																												BACK TO BACK		
																																	R5-1		
		1	36	12	3.00						1					X		1															R6-1L		
																																	BACK TO BACK		
		1	36	12	3.00																												R6-1R		
0.235 RAMP C RT		1	30	30	6.25																												R1-1		
		1	30	30	6.25																												BACK TO BACK		
																																	R5-1		
		1	36	12	3.00						1									X													R6-1L		
																																	BACK TO BACK		
		1	36	12	3.00																												R6-1R		
INT #4 0.030 RAMP D RT		1	36	36	9.00																												VR-046		E-142
		1	36	36	9.00						2									X													VR-002		E-142
0.264 RAMP D RT		1	30	30	6.25						1					X		1															R3-2		
INT #4 2.280 VT 66 LT		1	24	24	4.00																												R8-3a		
		1	24	12	2.00						1					X		1															M4-6 BLACK ON WHITE		
2.280 VT 66 RT		1	21	15	2.19																												M2-1 WHITE ON BLUE		
		1	24	24	4.00						1					X		1															M1-1		
2.320 VT 66 LT		1	30	30	6.25																												W7-1b "9%"		
		1	24	18	3.00						2					X		2															W7-2		
2.380 VT 66 RT		1	72	12	6.00						2												2	X									D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
												FT	FT	FT	FT	FT 87.7	FT		EA.	LB 66.5	LB	LB		LB 177.9	LB	LB	LB								
SUBTOTALS SHEET 41		SF 100.69	SF	EA.	SF							FT			FT 87.7					LB 66.5			EA. 2	LB 177.9				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

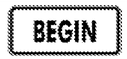
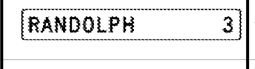
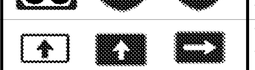
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int4.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 41

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 93 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 42

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
2.382 VT 66 LT		1	24	24	4.00						1					X		1															R8-3a		
2.409 VT 66 LT		1 1	24 24	30 24	5.00 4.00																												R2-1 R8-3a		
		1	24	12	2.00						2					X		2														#1	M4-11 BLACK ON WHITE		E-140
2.410 VT 66 LT							1																												
		1	30	30	6.25						1					X		1															R1-1		
2.426 VT 66 LT		1	24	30	5.00						1					X		1															VR-017		E-141
2.429 VT 66 CL		1	24	30	5.00																												R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1														OM1-1 BACK TO BACK OM1-1		
2.430 VT 66 LT		1	72	12	6.00																												D2-1		E-123
WEST		1 1	24 24	12 12	2.00 2.00																												M3-2 GREEN ON WHITE M4-5 GREEN ON WHITE		
		1 1	24 24	24 24	4.00 4.00						2							2					2	X							#1	M1-5 M1-5		E-136B E-136B
2.435 VT 66 RT		1 1 1	24 24 24	12 12 12	2.00 2.00 2.00																												M3-2 GREEN ON WHITE M3-1 WHITE ON BLUE M3-3 WHITE ON BLUE		
		1 1 1	24 24 24	24 24 24	4.00 4.00 4.00																												M1-5 M1-1 M1-1		E-136B
		1 1 1	21 21 21	15 15 15	2.19 2.19 2.19						2							2					2	X							#3	M6-3 GREEN ON WHITE M6-3 WHITE ON BLUE M6-1R WHITE ON BLUE		

												FT	FT	FT	FT	FT	FT		EA.	LB	LB	LB		LB	LB	LB	LB								
																85.6			1					378.6											
SUBTOTALS SHEET 42		SF ~~78.32~~ 80.32	SF	EA. 1	SF			FT		FT 85.6			LB		EA. 4		LB 378.6				EA.	EA.	LB												

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int4.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 42

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 94 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 43

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
2.440 VT 66 RT		1	24	24	4.00																												D9-2		E-132
		1	24	6	1.00						1					X		1															D9-2aR		E-132
2.440 VT 66 RT		1	24	12	2.00																												M3-2 GREEN ON WHITE		
		1	24	12	2.00																												M3-4 GREEN ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
		1	24	24	4.00																												M1-5		E-136B
		1	24	24	4.00																												M1-5		E-136B
		1	24	24	4.00																												M1-5		E-136B
		1	21	15	2.19																												M6-1L GREEN ON WHITE		
		1	21	15	2.19						2												2	X							#3	M6-1R GREEN ON WHITE		
		1	21	15	2.19																												M6-1R GREEN ON WHITE		
2.441 VT 66 RT		1	24	12	2.00																												M3-3 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						1					X		1															M6-1L WHITE ON BLUE		
2.455 VT 66 CL		1	24	30	5.00																												R4-7		
		1	18	18	2.25						1					X		1	1														OM1-1		
		1	18	18	2.25																												BACK TO BACK OM1-1		
2.473 VT 66 CL		1	24	30	5.00																												R4-7		
		1	18	18	2.25						1					X		1	1														OM1-1		
		1	18	18	2.25																												BACK TO BACK OM1-1		
2.480 VT 66 LT		1	24	12	2.00																												M3-3 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						1					X		1															M6-1L WHITE ON BLUE		
											FT	FT	FT	FT	FT 71.3	FT		EA. 2	LB	LB	LB		LB 185.5	LB	LB	LB								
SUBTOTALS SHEET 43		SF 64.95	SF	EA.	SF		FT		FT 71.3		LB	EA. 2	LB 185.5			EA.	EA.	LB																

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

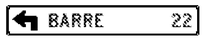
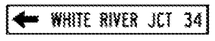
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int4.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 43

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 44

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
2.485 VT 66 RT		1	72	12	6.00																												D1-1a		E-123
		1	24	12	2.00																												M3-1 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						2									X															
2.540 VT 66 LT		1	30	30	6.25						1					X		1															VR-921L		E-145A
2.540 VT 66 RT		1	30	30	6.25						1					X		1															VR-921L		E-145A
2.580 VT 66 LT		1	72	12	6.00																												D1-1a		E-123
		1	24	12	2.00																												M3-3 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						2									X															
2.595 VT 66 RT		1	24	12	2.00																												M3-1 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						1					X		1															M6-1L WHITE ON BLUE		

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

											FT	FT	FT	FT	FT 46.8	FT		EA.	LB 98.4	LB	LB		LB	LB	LB	LB									
SUBTOTALS SHEET 44	SF 49.07	SF	EA.	SF		FT			FT 46.8					LB 98.4			EA.	LB				EA.	EA.	LB												

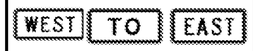
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int4.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 44

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 96 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 45

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) lb/ft 3.0 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FNDATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
2.599 VT 66 CL		1	24	30	5.00																												R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1														OM1-1 BACK TO BACK OM1-1		
2.610 VT 66 CL		1	24	30	5.00																												R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1														OM1-1 BACK TO BACK OM1-1		
2.615 VT 66 LT		1	24	12	2.00																												M3-1 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						1					X		1															M6-1L WHITE ON BLUE		
2.618 VT 66 LT		1	24	24	4.00																												D9-2		E-132
		1	24	6	1.00						1					X		1															D9-2aL		E-132
2.618 VT 66 LT		1 1 1	24 24 24	12 12 12	2.00 2.00 2.00																												M3-4 GREEN ON WHITE M4-5 GREEN ON WHITE M3-2 GREEN ON WHITE		
		1 1 1	24 24 24	24 24 24	4.00 4.00 4.00																												M1-5 M1-5 M1-5		E-136B E-136B E-136B
		1 1 1	21 21 21	15 15 15	2.19 2.19 2.19						2						X														#3	M6-1L GREEN ON WHITE M6-1L GREEN ON WHITE M6-1R GREEN ON WHITE		
2.620 VT 66 LT		1 1 1	24 24 24	12 12 12	2.00 2.00 2.00																												M3-4 GREEN ON WHITE M3-3 WHITE ON BLUE M3-1 WHITE ON BLUE		
		1 1 1	24 24 24	24 24 24	4.00 4.00 4.00																												M1-5 M1-1 M1-1		E-136B
		1 1 1	21 21 21	15 15 15	2.19 2.19 2.19						2						X														#3	M6-3 GREEN ON WHITE M6-3 WHITE ON BLUE M6-1R WHITE ON BLUE		
SUBTOTALS SHEET 45		SF 81.33	SF	EA.	SF		FT			FT 57.3				EA. 2	LB	LB 131.6	LB	EA.	LB				EA.	EA.	LB									

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

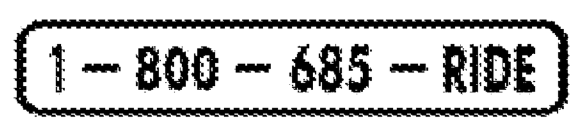
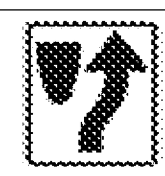
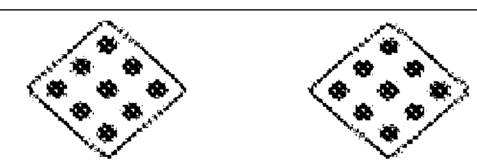
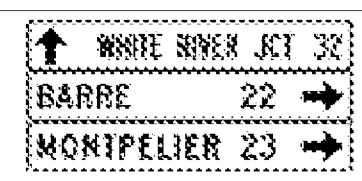
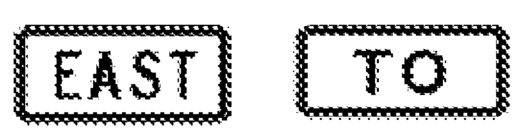
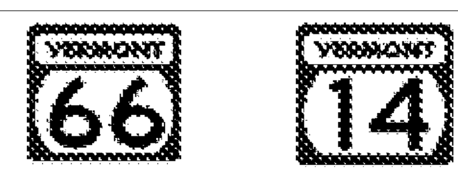
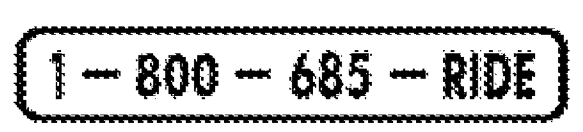
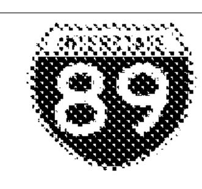
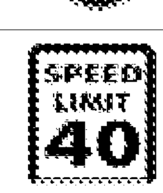
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int4.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 45

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 97 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 46

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	FLANGED CHANNEL 1.12 lb/ft	FLANGED CHANNEL 2.0 lb/ft	FLANGED CHANNEL 3.0 lb/ft	SQUARE STEEL (in) 1.75 / 1.88 lb/ft	SQUARE STEEL (in) 2.0 / 2.42 lb/ft	SQUARE STEEL (in) 2.5 / 3.35 lb/ft	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 / 1.3 lb/ft	TUBULAR ALUMINUM 4.0 / 1.7	TUBULAR ALUMINUM 4.0Mod / 1.7	FND-ATION	TUBULAR STEEL DIA (in) 3.0 / 7.6 lb/ft	TUBULAR STEEL 3.5 / 9.0	TUBULAR STEEL 4.0 / 10.8	TUBULAR STEEL 5.0 / 14.6	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	SIGN DETAIL: STD. SHEET NUMBER
2.630 VT 66 RT		1	30	36	7.50																												D4-2L "LEFT ARROW"		
		1	36	9	2.25						1									X														144	
2.640 VT 66 CL		1	24	30	5.00																												R4-7		
		1	18	18	2.25						1					X		1	1														OM1-1 BACK TO BACK		
		1	18	18	2.25																												OM1-1		
2.665 VT 66 LT		1	72	12	6.00						2												2	X									D1-1a PER WRITTEN ORDER #ISALVAGE BARRE SIGN		E-123
					6.00																														
		1	72	12	6.00																												D1-1a		E-123
2.670 VT 66 RT		1	72	12	6.00																												D2-1		E-123
		1	24	12	2.00																												M3-2 GREEN ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
		1	24	24	4.00						2												2	X								#1	M1-5		E-136B
		1	24	24	4.00																												M1-5		E-136B
2.685 VT 66 LT		1	30	36	7.50																												D4-2R "RIGHT ARROW"		
		1	39	9	2.44						1									X														144	
2.725 VT 66 LT		1	21	15	2.19																												M2-1 WHITE ON BLUE		
		1	24	24	4.00						1					X		1															M1-1		
2.750 VT 66 RT		1	24	30	5.00						1					X		1															R2-1		
												FT	FT	FT	FT	FT	FT		EA.	LB	LB	LB		LB	LB	LB	LB								
																42.4			1	38.0				371.0											
SHEET TOTALS					SF 76.38 ~~70.38~~	SF	EA.	SF				FT			FT 42.4					LB 38.0			EA. 4	LB 371.0				EA.	EA.	LB					

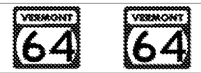
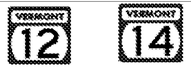
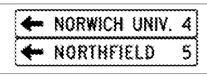
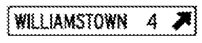
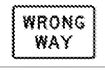
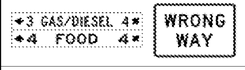
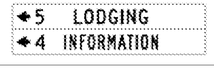
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME:	090106_tss_int4.xls	PLOT DATE:	8/12/2009
PROJECT LEADER:	CRB	DRAWN BY:	JH
DESIGNED BY:	BDB	CHECKED BY:	DAM
TRAFFIC SIGN SUMMARY SHEET # 46		SHEET 98 OF 163	

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 47

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT #5																																			
0.040 RAMP A RT		1	36	36	9.00						2					X		2															W3-1		
0.071 RAMP A RT		1	24	12	2.00																											M3-4 GREEN ON WHITE		
		1	24	12	2.00																											M3-2 GREEN ON WHITE		
		1	24	24	4.00																											M1-5		E-136B
		1	24	24	4.00																											M1-5		E-136B
		1	21	15	2.19																										#2	M6-1L GREEN ON WHITE		
		1	21	15	2.19																											M6-2R GREEN ON WHITE		
		1	24	12	2.00																											M4-5 GREEN ON WHITE		
		1	24	12	2.00																											M4-5 GREEN ON WHITE		
		1	24	24	4.00																											M1-5		E-136B
		1	24	24	4.00																											M1-5		E-136B
		1	21	15	2.19						2												2	X							#2	M6-1L GREEN ON WHITE		
		1	21	15	2.19																											M6-2R GREEN ON WHITE		
0.099 RAMP A RT		1	72	12	6.00																											D1-1a		E-123
		1	72	12	6.00																											D1-1a		E-123
		1	72	12	6.00						2												2	X								D1-1a		E-123
0.127 RAMP A LT	 	1	54	48	18.00																												145		
		1	36	24	6.00																											BACK TO BACK R5-1a		
		1	24	24	4.00						2							2						X								R9-4a		
0.127 RAMP A RT		1	72	10	5.00																											VD-502G		E-133
		1	72	10	5.00																											VD-502F		E-133
		1	36	24	6.00																											R5-1a BACK TO BACK		
		1	72	10	5.00																											VD-502L		E-133
		1	72	10	5.00																											VD-502I		E-133
		1	72	10	5.00						2												2	X								VD-502C		E-133
0.142 RAMP A LT		1	18	18	2.25						1				X			1														OM1-1		

												FT	FT	FT	FT 9.5	FT 29.2	FT		EA.	LB	LB	LB		LB 785.3	LB	LB	LB								
SUBTOTALS SHEET 47		SF 121.01	SF	EA.	SF			FT			FT 38.7			LB	EA. 6		LB 785.3			EA.	EA.	LB														

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

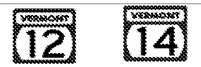
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int5.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 47

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 99 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 48

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.146 RAMP A LT		1	24	12	2.00																													M3-4 GREEN ON WHITE		
		1	24	12	2.00																													M3-2 GREEN ON WHITE		
		1	24	24	4.00																													M1-5		E-136B
		1	24	24	4.00																													M1-5		E-136B
		1	21	15	2.19																												#2	M6-1L GREEN ON WHITE		
		1	21	15	2.19																													M6-2R GREEN ON WHITE		
		1	24	12	2.00																													M4-5 GREEN ON WHITE		
		1	24	12	2.00																													M4-5 GREEN ON WHITE		
		1	24	24	4.00																													M1-5		E-136B
		1	24	24	4.00																													M1-5		E-136B
		1	21	15	2.19						2												2	X								#2	M6-1L GREEN ON WHITE		
		1	21	15	2.19																													M6-2R GREEN ON WHITE		
0.165 RAMP A RT		1			3.90						1					X		1															R1-2 36" X 36" X 36"		
INT #5 0.040 RAMP B LT		1			3.90						1					X		1															R1-2 36" X 36" X 36"		
0.070 RAMP B RT		1	36	36	9.00																													VR-046		E-142
		1	36	36	9.00						2									X														VR-002		E-142
0.160 RAMP B RT		1	30	30	6.25						1					X		1															R3-2		
INT #5 0.040 RAMP C RT		1	36	36	9.00																													VR-046		E-142
		1	36	36	9.00						2												2	X									VR-002		E-142
0.385 RAMP C RT		1	30	30	6.25						1					X		1															R3-2		
											FT	FT	FT		FT 60.5	FT		EA.		LB 45.4	LB	LB		LB 426.5	LB	LB	LB								
SUBTOTALS SHEET 48		SF 89.06		SF	EA.	SF					FT				FT 60.5					LB 45.4			EA. 4	LB 426.5				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int5.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 48

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 100 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 49

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 / 2.42	2.5 / 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 / 1.7	4.0Mod / 1.7	FND-ATION	TUBULAR STEEL DIA (in) 3.0 lb/ft 7.6	3.5 / 9.0	4.0 / 10.8	5.0 / 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT #5 0.054 RAMP D RT		1	36	36	9.00						2					X		2															W3-1		
0.082 RAMP D RT	EAST	1	24	12	2.00																												M3-2 GREEN ON WHITE		
	WEST	1	24	12	2.00																												M3-4 GREEN ON WHITE		
	VERMONT 64	1	24	24	4.00																												M1-5		E-136B
	VERMONT 64	1	24	24	4.00																												M1-5		E-136B
	←	1	21	15	2.19																											#2	M6-1L GREEN ON WHITE		
	↗	1	21	15	2.19																												M6-2R GREEN ON WHITE		
	TO	1	24	12	2.00																												M4-5 GREEN ON WHITE		
	TO	1	24	12	2.00																												M4-5 GREEN ON WHITE		
	VERMONT 14	1	24	24	4.00																												M1-5		E-136B
	VERMONT 12	1	24	24	4.00																												M1-5		E-136B
	←	1	21	15	2.19						2										X											#2	M6-1L GREEN ON WHITE		
	↗	1	21	15	2.19																												M6-2R GREEN ON WHITE		
0.110 RAMP D RT	← WILLIAMSTOWN 4	1	72	12	6.00																												D1-1a		E-123
	← BROOKFIELD 13	1	72	12	6.00																												D1-1a		E-123
	NORWICH UNIV. 4 ↗	1	72	12	6.00						2										X												D1-1a		E-123
	NORTHFIELD 5 ↗	1	72	12	6.00																												D1-1a		E-123
0.138 RAMP D LT	*	1	54	48	~~18.00~~		I																										BACK TO BACK *SIGN WAS SALAGED	145	
	WRONG WAY	1	36	24	6.00																												R5-1a		
		1	24	24	4.00						2							2						X									R9-4a		
0.138 RAMP D RT	←4 GAS/DIESEL 3→	1	72	10	5.00																												VD-502G		E-133
	←4 FOOD 4→	1	72	10	5.00																												VD-502F		E-133
	WRONG WAY	1	36	24	6.00																												R5-1a BACK TO BACK		
	LODGING 5→	1	72	10	5.00																												VD-502L		E-133
	INFORMATION 4→	1	72	10	5.00																												VD-502I		E-133
	←6 CAMPING	1	72	10	5.00						2												2	X									VD-502C		E-133
0.156 RAMP D LT		1	18	18	2.25						1				X			1															OM1-1		

	FLANGED CHANNEL 1.12	2.0	3.0	SQUARE STEEL 1.75	2.0	2.5	ANCHOR	SLEEVE	TUB. ALUM. 3.0	4.0	4.0Mod	FND-ATION	TUB. STEEL 3.0	3.5	4.0	5.0
Units	FT	FT	FT	FT	FT	FT		EA.	LB	LB	LB		LB	LB	LB	LB
Quantity				9.5	30.9					137.0			380.1			

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

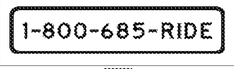
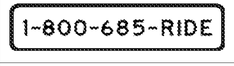
SUBTOTALS SHEET 49	"A"	"B"	SALV SIGN	SALV TIS	EXIST POST	FLANGED CHANNEL	SQUARE STEEL	TUBULAR ALUMINUM	FND-ATION	TUBULAR STEEL	FTG. 24"	FTG. 30"	WEIGHT
Units	SF	SF	EA.	SF		FT	FT	LB	EA.	LB	EA.	EA.	LB
Total	~~127.01~~ 109.01						40.4	137.0	2	380.1			

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int5.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 49
PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 101 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 50

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.158 RAMP D LT		1	24	12	2.00																												M3-2 GREEN ON WHITE		
		1	24	12	2.00																												M3-4 GREEN ON WHITE		
		1	24	24	4.00																												M1-5		E-136B
		1	24	24	4.00																												M1-5		E-136B
		1	21	15	2.19																											#2	M6-1L GREEN ON WHITE		
		1	21	15	2.19																												M6-2R GREEN ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
		1	24	24	4.00																												M1-5		E-136B
		1	24	24	4.00																												M1-5		E-136B
		1	21	15	2.19						2												2	X								#2	M6-1L GREEN ON WHITE		
		1	21	15	2.19																												M6-2R GREEN ON WHITE		
0.180 RAMP D RT		1			3.90						1					X		1														R1-2 36" X 36" X 36"		
INT #5 0.065 VT 64 LT		1	24	30	5.00						1					X		1															R2-1		
0.080 VT 64 RT		1	30	36	7.50																												D4-2L "LEFT ARROW"		
		1	36	9	2.25						1					X		1																144	
0.103 VT 64 LT		1	30	30	6.25						1					X		1															R1-1		
0.119 VT 64 LT		1	30	36	7.50																												D4-2R "RIGHT ARROW"		
		1	36	9	2.25						1					X		1																144	

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

											FT	FT	FT	FT	FT 71.2	FT		EA.	LB	LB	LB		LB 234.9	LB	LB	LB									
SUBTOTALS SHEET 50	SF 67.41	SF	EA.	SF		FT			FT 71.2			LB			EA. 2		LB 234.9				EA.	EA.	LB												

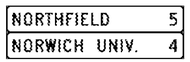
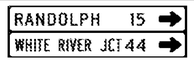
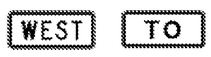
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int5.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 50

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 102 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 51

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) lb/ft 3.0 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) lb/ft FNDATION	3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.120 VT 64 RT		1	21	15	2.19																												M2-1 WHITE ON BLUE		
		1	24	24	4.00						1					X		1															M1-1		
0.147 VT 64 LT		1 1	72 72	12 12	6.00 6.00						2					X		2															D2-1 D2-1		E-123 E-123
0.160 VT 64 RT		1 1	72 72	12 12	6.00 6.00																												D1-1a D1-1a		E-123 E-123
		1 1	72 72	12 12	6.00 6.00						2												2	X									D1-1a D1-1a		E-123 E-123
0.175 VT 64 LT		1 1	24 24	12 12	2.00 2.00																												M3-4 GREEN ON WHITE M4-5 GREEN ON WHITE		
		1 1	24 24	24 24	4.00 4.00						2					X		2														#1	M1-5 M1-5		E-136B E-136B
0.176 VT 64 CL		1	24	30	5.00																												R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1														OM1-1 BACK TO BACK OM1-1		
0.200 VT 64 RT		1 1	24 24	12 12	2.00 2.00																												M3-1 WHITE ON BLUE M3-3 WHITE ON BLUE		
		1 1	24 24	24 24	4.00 4.00																												M1-1 M1-1		
		1 1	21 21	15 15	2.19 2.19						2												2	X								#2	M6-3 WHITE ON BLUE M6-1R WHITE ON BLUE		
0.202 VT 64 RT		1	24	12	2.00																												M3-3 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						1					X		1															M6-1L WHITE ON BLUE		

												FT	FT	FT	FT	FT 103.7	FT		EA. 1	LB	LB	LB		LB 370.2	LB	LB	LB								
	SUBTOTALS SHEET 51	SF 88.26	SF	EA.	SF		FT		FT 103.7		LB	EA. 4	LB 370.2			EA.	EA.	LB																	

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

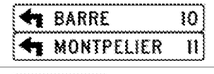
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int5.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 51

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 103 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 52

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) lb/ft 3.0 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.210 VT 64 CL		1	24	30	5.00																												R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1														OM1-1 BACK TO BACK OM1-1		
0.211 VT 64 LT		1 1	30 30	30 30	6.25 6.25																												R1-1 BACK TO BACK R5-1		
		1 1	36 36	12 12	3.00 3.00						1					X		1															R6-1L BACK TO BACK R6-1R		
0.217 VT 64 LT		1 1	30 30	30 30	6.25 6.25																												R1-1 BACK TO BACK R5-1		
		1 1	36 36	12 12	3.00 3.00						1					X		1															R6-1L BACK TO BACK R6-1R		
0.225 VT 64 LT		1	24	12	2.00																												M3-3 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						1					X		1															M6-1L WHITE ON BLUE		
0.226 VT 64 CL		1	24	30	5.00																												R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1														OM1-1 BACK TO BACK OM1-1		
0.238 VT 64 RT		1	30	30	6.25						1					X		1															W11-6H FOLDING/HINGED		
0.270 VT 64 RT		1 1	72 72	12 12	6.00 6.00																												D1-1a D1-1a		E-123 E-123
		1	24	12	2.00																												M3-1 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						2												2	X								M5-1L WHITE ON BLUE		
												FT	FT	FT	FT	FT 83.3	FT		EA. 2	LB	LB	LB		LB 212.1	LB	LB	LB								
SUBTOTALS SHEET 52		SF 90.63	SF	EA.	SF							FT				FT 83.3				LB			EA. 2	LB 212.1				EA.	EA.	LB				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int5.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 52

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 104 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 53

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.271 VT 64 LT		1	30	30	6.25						1					X		1															VR-921L		E-145A
0.306 VT 64 RT		1	30	30	6.25						1					X		1															VR-921L		E-145A
0.310 VT 64 LT		1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
		1	24	12	2.00																												M3-3 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						2												2	X									M5-1L WHITE ON BLUE		
0.340 VT 64 RT		1	24	12	2.00																												M3-1 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						1					X		1															M6-1L WHITE ON BLUE		
0.355 VT 64 CL		1	24	30	5.00																												R4-7		
		1	18	18	2.25						1					X		1	1														OM1-1 BACK TO BACK OM1-1		
		1	18	18	2.25																															
0.362 VT 64 RT		1	30	30	6.25																												R1-1 BACK TO BACK R5-1		
		1	30	30	6.25																															
		1	36	12	3.00						1					X		1															R6-1L BACK TO BACK R6-1R		
		1	36	12	3.00																															

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

											FT	FT	FT	FT	FT 69.8	FT		EA. 1	LB	LB	LB		LB 212.1	LB	LB	LB									
SUBTOTALS SHEET 53	SF 68.88	SF	EA.	SF		FT			FT 69.8			LB			EA. 2	LB 212.1			EA.	EA.	LB															

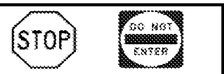
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int5.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 53

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 105 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 54

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) lb/ft 3.0 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FNDATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.369 VT 64 RT		1	30	30	6.25																											R1-1		
		1	30	30	6.25																											BACK TO BACK		
																																R5-1		
		1	36	12	3.00						1					X		1														R6-1L		
																																BACK TO BACK		
		1	36	12	3.00																											R6-1R		
0.370 VT 64 CL		1	24	30	5.00																											R4-7		
		1	18	18	2.25						1					X		1	1													OM1-1		
																																BACK TO BACK		
		1	18	18	2.25																											OM1-1		
0.371 VT 64 LT		1	24	12	2.00																											M3-1 WHITE ON BLUE		
		1	24	24	4.00																											M1-1		
		1	21	15	2.19						1					X		1														M6-1L WHITE ON BLUE		
		1	18	18	2.25						1				X			1														OM1-1		
0.390 VT 64 LT																																			
0.410 VT 64 LT		1	24	12	2.00																											M3-4 GREEN ON WHITE		
		1	24	12	2.00																											M3-3 WHITE ON BLUE		
		1	24	12	2.00																											M3-1 WHITE ON BLUE		
		1	24	24	4.00																											M1-5		E-136B
		1	24	24	4.00																											M1-1		
		1	24	24	4.00																											M1-1		
		1	21	15	2.19																											M6-3 GREEN ON WHITE		
		1	21	15	2.19						2									X											#3	M6-3 WHITE ON BLUE		
		1	21	15	2.19																											M6-2R WHITE ON BLUE		
0.430 VT 64 RT		1	24	12	2.00																											M3-2 GREEN ON WHITE		
		1	24	12	2.00																											M4-5 GREEN ON WHITE		
		1	24	24	4.00						2					X		2														M1-5		E-136B
		1	24	24	4.00																										#1	M1-5		E-136B
0.432 VT 64 CL		1	24	30	5.00																											R4-7		
		1	18	18	2.25						1					X		1	1													OM1-1		
																																BACK TO BACK		
		1	18	18	2.25																											OM1-1		
											FT	FT	FT		FT 9.5	FT 87.1	FT		EA. 2	LB	LB 65.8	LB		LB	LB	LB	LB								
		SUBTOTALS SHEET 54			SF 84.51	SF	EA.	SF			FT				FT 96.6					LB 65.8			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

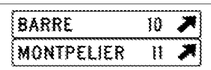
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int5.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 54

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 106 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 55

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.450 VT 64 LT		1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00						2										X											D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
0.460 VT 64 RT		1	72	12	6.00						2					X			2													D2-1		E-123
		1	72	12	6.00																												D2-1		E-123
0.490 VT 64 LT		1	21	15	2.19																												M2-1 WHITE ON BLUE		
		1	24	24	4.00						1					X			1													M1-1		
0.495 VT 64 RT		1	54	48	18.00		I				2												2	X								RETAINED OLD SIGN	145	
0.497 VT 64 LT		1	30	30	6.25						1					X			1													R1-1		
0.530 VT 64 RT		1	24	30	5.00						1					X			1													R2-1		

		FT	FT	FT	FT	FT 78.6	FT		EA.	LB	LB 66.9	LB		LB 184.0	LB	LB	LB																		
SHEET TOTALS		SF ~~71.44~~ 109.01	SF	EA. 1	SF		FT	FT 78.6		LB 66.9	EA. 2	LB 184.0			EA.	EA.	LB																		

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

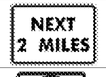
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int5.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 55

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 107 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 56

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT #6 0.050 RAMP A RT		1	36	36	9.00						2					X		2															W3-2		
0.128 RAMP A LT		1	36	24	6.00						2					X		2															R5-1a		
0.128 RAMP A RT		1	36	24	6.00						2					X		2															R5-1a		
0.150 RAMP A LT		1	30	30	6.25						1					X		1															R5-1		
0.150 RAMP A RT		1 1			3.90 6.25																												R1-2 36" X 36" X 36" R5-1		
		1	30	30	6.25						1												1	X									R3-2		
INT #6 0.070 RAMP B RT		1	36	36	9.00																												VR-046		E-142
		1	36	36	9.00						2									X													VR-002		E-142
0.110 RAMP B RT		1	36	36	9.00																												W11-3		
		1	24	18	3.00						2					X		2															W7-3a		
0.165 RAMP B RT		1	30	30	6.25						1					X		1															R3-2		
INT #6 0.050 RAMP C RT		1	36	36	9.00																												W1-2L		
		1	24	24	4.00						2					X		2															W13-1		
0.100 - 0.240 RT RAMP C		8	18	24	24.00						8					X		8															W1-8L FLUORESCENT YELLOW TYPE IX SHEETING		
											FT	FT	FT	FT	FT 285.0	FT		EA.	LB	LB 45.4	LB		LB	LB 72.2	LB	LB								
SUBTOTALS SHEET 56		SF 116.90	SF	EA.	SF				FT		FT 285.0								LB 45.4			EA. 1	LB 72.2				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

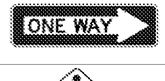
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int6.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 56

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 108 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 57

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.287 RAMP C RT		1	36	36	9.00																												W11-3		
		1	24	18	3.00						2					X		2														W7-3a		
0.370 RAMP C RT		1	30	30	6.25						1					X		1														R3-2		
INT #6 0.040 - 0.124 LT RAMP D		7	18	24	21.00						7					X		7														W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
0.150 - 0.236 LT RAMP D		4	18	24	12.00						4					X		4														W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
INT #6 0.000 VT 63 LT		1	24	12	2.00																												M4-6 GREEN ON WHITE		
		1	24	24	4.00						1					X		1														M1-5		E-136B
0.035 VT63 RT		1	36	36	9.00						2					X		2														W4-1R		
0.050 VT 63 LT		1	36	36	9.00																												VR-046		E-142
		1	36	36	9.00						2												2	X								VR-002		E-142
0.079 VT 63 RT		1	36	24	6.00						2					X		2														R5-1a		
0.090 VT 63 LT		1	36	36	9.00						2					X		2														W12-2		
0.115 VT 63 CL		1	36	12	3.00						2					X		2														R6-1R		
0.123 VT 63 LT		1	18	18	2.25						1				X			1														OM1-1		
0.138 VT 63 LT O/H		1 1	192 210	150 120		200.00 175.00																										OVERHEAD TRAFFIC SIGN SUPPORT, MULTI-SUPPORT	142 142	
												FT	FT	FT	FT 9.5	FT 319.7	FT		EA.	LB	LB	LB		LB 199.2	LB	LB	LB							

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

SUBTOTALS SHEET 57	SF 104.50	SF 375.00	EA.	SF		FT	FT 329.2	LB	EA. 2	LB 199.2	EA.	EA.	LB

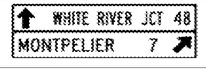
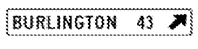
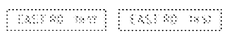
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int6.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 57

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 109 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 58

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.150 VT 63 RT		1	36	36	9.00																												W2-1		
		1	30	24	5.00						2					X		2																144	
0.155 VT 63 CL		1	24	30	5.00																												R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1														OM1-1 BACK-TO-BACK OM1-1		
0.170 VT 63 LT		1	30	30	6.25						1					X		1															VR-921R		E-145A
0.205 VT 63 LT		1 1	24 24	12 12	2.00 2.00																												M3-3 WHITE ON BLUE M3-1 WHITE ON BLUE		
		1 1	24 24	24 24	4.00 4.00																												M1-1 M1-1		
		1 1	21 21	15 15	2.19 2.19						2												2	X								#2	M6-3 WHITE ON BLUE M6-2R WHITE ON BLUE		
0.230 VT 63 RT		1 1	24 24	12 12	2.00 2.00																												M3-2 GREEN ON WHITE M4-5 GREEN ON WHITE		
		1 1	24 24	24 24	4.00 4.00						2					X		2														#1	M1-5 M1-5		E-136B E-136B
0.240 VT 63 LT		1 1	72 72	12 12	6.00 6.00																												D1-1a D1-1a		E-123 E-123
		1	72	12	6.00						2												2	X									D1-1a		E-123
0.250 VT 63 LT							1 1																									BACK-TO-BACK		
		1	30	30	6.25						1					X		1															R1-1		
0.252 VT 63 RT							1																												
							1				1												1	X										
0.260 VT 63 LT		1	24	30	5.00						1					X		1															VR-017		E-141
												FT	FT	FT	FT	FT 120.0	FT		EA. 1	LB	LB	LB		LB 440.9	LB	LB	LB							
SUBTOTALS SHEET 58					SF 87.38	SF	EA. 4	SF				FT			FT 120.0					LB			EA. 5	LB 440.9				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

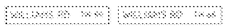
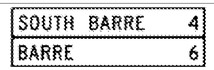
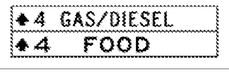
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int6.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 58

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 59

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.263 VT 63 RT							1 1																										BACK-TO-BACK		
		1	30	30	6.25						1					X		1															R1-1		
0.275 VT 63 RT		1 1	72 72	12 12	6.00 6.00						2					X		2															D2-1 D2-1		E-123 E-123
0.320 VT 63 RT		1	24	30	5.00						1					X		1															R2-1		
0.360 VT 63 LT		1	21	15	2.19																												M2-1 WHITE ON BLUE		
		1	24	24	4.00						1					X		1															M1-1		
0.363 VT 63 RT		1 1	72 72	10 10	5.00 5.00																												VD-502G VD-502F		E-133 E-133
		1 1	72 72	10 10	5.00 5.00						2					X		2															VD-502L VD-502C		E-133 E-133
0.400 VT 63 LT		1	36	36	9.00																												W2-1		
		1	30	24	5.00						2					X		2																144	
												FT	FT	FT	FT	FT 134.0	FT		EA.	LB	LB	LB		LB	LB	LB	LB								
					SHEET TOTALS	SF 63.44	SF	EA. 2	SF			FT			FT 134.0					LB			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int6.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 59

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 111 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 60

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT #7 0.170 RAMP A RT		1	36	36	9.00						2					X		2															W4-3R		
0.220 RAMP A RT		1	30	30	6.25						1					X		1															R3-2		
INT #7 0.230 RAMP B RT		1	30	30	6.25						1					X		1															R3-2		
INT #7 0.150 RAMP C RT		1	36	36	9.00																												W1-2L		
		1	24	24	4.00						2					X		2															W13-1		
INT #7 0.030 RAMP D RT		1	36	36	9.00																												W1-15R		
		1	24	24	4.00						2					X		2															W13-1		
0.104 - 0.230 LT RAMP D		10	18	24	30.00						10					X		10															W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
0.255 RAMP D RT		1	30	30	6.25						1					X		1															R3-2		
INT #7 0.000 VT 62 LT		1	24	12	2.00																												M4-6 GREEN ON WHITE		
		1	24	24	4.00						1					X		1															M1-5		E-136B
0.050 VT 62 RT		1	36	36	9.00						2					X		1															W4-3R		
0.100 VT 62 LT		1	18	18	2.25						1				X			1															OM1-1		
												FT	FT	FT	FT 9.5	FT 318.9	FT		EA.	LB	LB	LB		LB	LB	LB	LB								
SUBTOTALS SHEET 60		SF 101.00	SF	EA.	SF				FT						FT 328.4					LB			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int7.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 60

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 112 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 61

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.115 VT 62 LT O/H	South White River Junction / North Montpelier Burlington	1	192	150		200.00																											OVERHEAD TRAFFIC SIGN SUPPORT, MULTI-SUPPORT	142	
		1	210	120		175.00																												142	
0.140 VT 62 LT	PROHIBITED	1	36	36	9.00																												VR-046		E-142
	TURN SIGNAL REQUIRED BEFORE CHANGING LANES	1	36	36	9.00						2									X												VR-002		E-142
0.145 VT 62 CL	ONE WAY	1	36	12	3.00						2					X		2														R6-1R		
0.178 VT 62 LT		1	30	30	6.25						1					X		1														VR-921R		E-145A
0.180 VT 62 RT	EAST TO	1	24	12	2.00																												M3-2 GREEN ON WHITE		
		1	24	12	2.00																												M4-5 BLACK ON WHITE		
	VERMONT 62 / 302	1	24	24	4.00						2					X		2														#1A	M1-5		E-136B
		1	30	24	5.00																												M1-4		
0.220 VT 62 RT	AIRPORT 3	1	72	12	6.00																												D1-1a		E-123
	BARRE 5	1	72	12	6.00																												D1-1a		E-123
	BERLIN CORNERS	1	72	12	6.00																												D1-1		E-123
	PARK & RIDE	1	30	36	7.50						2									X												D4-2L "LEFT ARROW"		
0.230 VT 62 LT	SOUTH NORTH	1	24	12	2.00																												M3-3 WHITE ON BLUE		
		1	24	12	2.00																												M3-1 WHITE ON BLUE		
	89 89	1	24	24	4.00																												M1-1		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						2									X												#2	M6-3 WHITE ON BLUE		
		1	21	15	2.19																												M6-2R WHITE ON BLUE		
SUBTOTALS SHEET 61					SF 82.13	SF 375.00	EA.	SF				FT	FT	FT	FT	FT 74.1	FT		EA.	LB 138.8	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int7.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 61

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 62

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) lb/ft 3.0 1.3	4.0 1.7	4.0Mod 1.7	FND-ATION	TUBULAR STEEL DIA (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.260 VT 62 RT	GAS/DIESEL 24 HOURS 3 FOOD	1	72	10	5.00																													VD-502G		E-133
		1	72	10	5.00																													VD-502F		E-133
	1 LODGING 1 INFORMATION	1	72	10	5.00																													VD-502L		E-133
		1	72	10	5.00																													VD-502I		E-133
	1 HOSPITAL	1	72	10	5.00																													VD-502H		E-133
	H	1	24	24	4.00																													D9-2		E-132
		1	21	15	2.19						2										X												M6-3 WHITE ON BLUE		
0.270 VT 62 LT	WHITE RIVER JCT 52 MONTPELIER 4	1	72	12	6.00																													D1-1a		E-123
		1	72	12	6.00																													D1-1a		E-123
	BURLINGTON 40	1	72	12	6.00						2									X														D1-1a		E-123
0.290 VT 62 RT		1	36	36	9.00						2					X		2																W3-3		
0.290 VT 62 CL		1	36	36	9.00						2					X		2																W3-3		
0.320 VT 62 RT	SPEED LIMIT 50	1	24	30	5.00						1					X		1																R2-1		
0.350 VT 62 RT		1	36	36	9.00						2					X		2																W11-8		
0.380 VT 62 RT	EAST TO	1	24	12	2.00																													M3-2 GREEN ON WHITE REPLACED WITH BLACK ON WHITE ~~M4-5 GREEN ON WHITE~~		
		1	24	12	2.00																															
	VERMONT 62 302	1	24	24	4.00																													M1-5		E-136B
		1	30	24	5.00																													M1-4		
		1	21	15	2.19						2												2	X								#2A	M6-3 GREEN ON WHITE REPLACED WITH BLACK ON WHITE ~~M6-3 GREEN ON WHITE~~		
		1	21	15	2.19																															
0.350 VT 62 LT	JCT	1	21	15	2.19																													M2-1 WHITE ON BLUE		
	INTERSTATE 89	1	24	24	4.00						1					X		1																M1-1		
0.410 VT 62 RT	ONLY ONLY	1	60	30	12.50						2					X		2																VR-941		E-145A
												FT	FT	FT	FT	FT 150.0	FT	EA.	LB	LB 45.9	LB 67.4		LB	LB 177.1	LB	LB									

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

SUBTOTALS SHEET 62	SF ~~109.0~~ 117.26	SF	EA.	SF		FT	FT 150.0	LB 113.3	EA. 2	LB 177.1	EA.	EA.	LB

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME:	090106_tss_int7.xls	PLOT DATE:	8/12/2009
PROJECT LEADER:	CRB	DRAWN BY:	JH
DESIGNED BY:	BDB	CHECKED BY:	DAM
TRAFFIC SIGN SUMMARY SHEET # 62		SHEET 114 OF 163	

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 63

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS E A	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.468 VT 62 CL		1	24	30	5.00																												R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1														OM1-1 BACK TO BACK OM1-1		
0.475 VT 62 LT		1	24	12	2.00																												M4-5 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						1					X		1															M6-1L WHITE ON BLUE		
0.477 VT 62 LT	 	1 1	24 24	12 12	2.00 2.00																												M3-2 GREEN ON WHITE M4-5 WHITE ON BLUE		
	 	1 1	24 24	24 24	4.00 4.00																												M1-5 M1-1		E-136B
	 	1 1	21 21	15 15	2.19 2.19						2												2	X							#2	M6-1L GREEN ON WHITE M6-1R WHITE ON BLUE		
0.484 VT 62 CL		1	24	30	5.00																												R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1														OM1-1 BACK TO BACK OM1-1		

												FT	FT	FT	FT	FT 41.0	FT		EA. 2	LB	LB	LB		LB 177.1	LB	LB	LB								
	SHEET TOTALS	SF 43.57	SF	EA.	SF		FT					FT 41.0			LB	EA. 2	LB 177.1		EA.	EA.	LB														

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int7.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 63

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 115 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 64

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT #8 0.130 RAMP A RT		1	36	36	9.00						2					X		2															W4-3R		
0.200 RAMP A RT		1	30	30	6.25						1					X		1															R3-2		
INT #8 0.050 RAMP B RT		1	36	36	9.00																											VR-046		E-142
		1	36	36	9.00						2												2	X								VR-002		E-142
0.112 RAMP B RT		1	30	30	6.25						1					X		1															R3-2		
INT #8 0.010 RAMP C RT		1	36	36	9.00																											W1-15R		
		1	24	24	4.00						2					X		2															W13-1		
0.020 -0.076 LT RAMP C		5	18	24	15.00						5					X		5															W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
0.096 - 0.176 LT RAMP C		5	18	24	15.00						5					X		5															W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
0.190 - 0.274 LT RAMP C		7	18	24	21.00						7					X		7															W1-8R FLUORESCENT YELLOW TYPE IX SHEETING		
0.308 RAMP C RT		1	30	30	6.25						1					X		1															R3-2		
INT #8 0.145 RAMP D RT		1	36	36	9.00																											W1-11L		
		1	24	24	4.00						2					X		2															W13-1		
0.224 - 0.344 RT RAMP D		7	18	24	21.00						7					X		7															W1-8L FLUORESCENT YELLOW TYPE IX SHEETING		
											FT	FT	FT	FT	FT 454.6	FT		EA.	LB	LB	LB		LB 191.6	LB	LB	LB								
SUBTOTALS SHEET 64		SF 143.75	SF	EA.	SF				FT		FT 454.6				LB			EA. 2	LB 191.6				EA.	EA.	LB										

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int8.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 64

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 116 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 65

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) lb/ft 3.0 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FNDATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.364 - 0.410 RT RAMP D		4	18	24	12.00						4					X		4															W1-8L FLUORESCENT YELLOW TYPE IX SHEETING		
0.381 RAMP D RT		1	36	36	9.00						2					X		2															W12-2		
INT #8 0.025 MSH RT		1	36	36	9.00						2					X		2															W4-3R		
0.040 MSH LT		1	36	36	9.00						2					X		2															W12-2		
0.080 MSH LT		1	36	36	9.00																												VR-046		E-142
		1	36	36	9.00						2												2	X									VR-002		E-142
0.095 MSH CL		1	36	12	3.00						2					X		2															R6-1R		
0.096 MSH LT		1	18	18	2.25						1				X			1															OM1-1		
0.102 MSH LT O/H		1 1	192 210	150 96		200.00 140.00																											OVERHEAD TRAFFIC SIGN SUPPORT, MULTI-SUPPORT	143 143	
0.115 MSH CL		1	30	36	7.50						1					X		1																144	
0.115 MSH RT		1	30	36	7.50						1					X		1																144	
0.120 MSH LT		1	30	30	6.25						2					X		2															VW-285	144	
0.155 MSH RT		1 1	24 24	12 12	2.00 2.00																												M4-5 BLACK ON WHITE M4-5 GREEN ON WHITE		
		1 1	24 24	24 24	4.00 4.00						2					X		2														#1	M1-4 M1-5		E-136B
0.157 MSH LT		1	30	30	6.25						1					X		1															VR-921R		E-145A
												FT	FT	FT	FT 9.5	FT 282.5	FT		EA.	LB	LB	LB		LB 199.1	LB	LB	LB								
SUBTOTALS SHEET 65		SF 101.75	SF 340.00	EA.	SF				FT			FT 292.0								LB			EA. 2	LB 199.1				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int8.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 65

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 117 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 66

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.195 MSH RT	MONTPELIER 1 ST. JOHNSBURY 38	1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
	RAILROAD STATION MONTPELIER JCT	1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
	PARK & RIDE	1	30	36	7.50						2										X												D4-2L "LEFT ARROW"		
0.210 MSH LT	WHITE RIVER JCT 55 BURLINGTON 37	1	72	12	6.00						2					X			2														D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
0.235 MSH RT	1 GAS/DIESEL 24 HOURS 1 FOOD	1	72	10	5.00																												VD-502G		E-133
		1	72	10	5.00																												VD-502F		E-133
	1 LODGING 1 INFORMATION	1	72	10	5.00																												VD-502L		E-133
		1	72	10	5.00																												VD-502I		E-133
	6 CAMPING	1	72	10	5.00																												VD-502C		E-133
	VISITOR CENTER	1	24	24	4.00																													144	
		1	21	15	2.19						2										X												M6-3 WHITE ON BLUE	144	
0.250 MSH LT	SOUTH NORTH	1	24	12	2.00																												M3-3 WHITE ON BLUE		
		1	24	12	2.00																												M3-1 WHITE ON BLUE		
	89 89	1	24	24	4.00																												M1-1		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						2												2	X							#2	M6-3 WHITE ON BLUE		
		1	21	15	2.19																												M6-2R WHITE ON BLUE		
0.278 MSH RT	ONLY	1	48	30	10.00						2					X			2														VR-935L		E-145B
0.305 MSH LT	YIELD	1			3.90						1					X			1														R1-2 36" X 36" X 36"		
0.308 MSH LT		1	36	36	9.00						2					X			2														W4-1R		

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

							FT	FT	FT	FT	FT 104.8	FT		EA.	LB	LB 134.3	LB		LB 177.1	LB	LB	LB			
SUBTOTALS SHEET 66	SF 113.97	SF	EA.	SF		FT			FT 104.8			LB 134.3		EA. 2	LB 177.1			EA.	EA.	LB

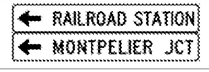
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int8.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 66

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 118 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 67

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) lb/ft 3.0 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FNDATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.323 MSH LT		1	24	12	2.00																												M4-5 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						1					X		1															M6-3 WHITE ON BLUE		
0.325 MSH CL		1	24	30	5.00																												R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1														OM1-1 BACK-TO-BACK OM1-1		
0.335 MSH LT		1	30	30	6.25						1					X		1															R1-1		
0.339 MSH RT		1 1	72 72	12 12	6.00 6.00						2					X		2															D1-1 D1-1		E-123 E-123
0.340 MSH LT		1	24	30	5.00																												R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1														OM1-1 BACK-TO-BACK OM1-1		
0.340 MSH RT		1	24	18	3.00						1					X		1															R6-3a		
0.348 MSH CL		1	24	30	5.00																												R4-7		
		1 1	18 18	18 18	2.25 2.25						1					X		1	1														OM1-1 BACK-TO-BACK OM1-1		
0.377 MSH LT		1	18	18	2.25						1				X			1															OM1-1		
0.377 MSH RT		1	30	36	7.50						1					X		1																144	

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

												FT	FT	FT	FT	FT	FT		EA.	LB	LB	LB		LB	LB	LB	LB								
															9.5	132.4			3																
SHEET TOTALS		SF	SF	EA.	SF			FT			FT							LB		EA.			LB				EA.	EA.	LB						
		67.69									141.9																								

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int8.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 67

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 119 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 68

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT #9																																			
0.030 RAMP A RT	PROHIBITED TURNING LEFT ONLY	1	36	36	9.00																												VR-046		E-142
	TURN SIGNAL REQUIRED BEFORE CHANGING LANES	1	36	36	9.00						2									X												VR-002		E-142
0.115 RAMP A RT		1	30	30	6.25						1					X		1														R3-2		
INT #9																																			
0.045 RAMP B RT		1	36	36	9.00						2					X		2														W3-1		
0.075 RAMP B RT	TO TO	1	24	12	2.00																											M4-5 BLACK ON WHITE		
		1	24	12	2.00																											M4-5 GREEN ON WHITE		
	2 VERMONT 100B	1	24	24	4.00																											M1-4		
		1	30	24	5.00																											M1-5		E-136B
		1	21	15	2.19						2												2	X							#2A	M6-1L BLACK ON WHITE		
		1	21	15	2.19																											M6-1L GREEN ON WHITE		
0.105 RAMP B LT	WRONG WAY	1	36	24	6.00																											R5-1a		
		1	24	24	4.00						2					X		2														R9-4a		
0.105 RAMP B RT	MIDDLESEX 1 / MORETOWN 8 WRONG WAY	1	72	12	6.00																											D1-1a		E-123
		1	72	12	6.00																											D1-1a		E-123
		1	36	24	6.00																											R5-1a BACK TO BACK		
	WAITSFIELD 14 / WARREN 20	1	72	12	6.00																											D1-1a		E-123
		1	72	12	6.00																											D1-1a		E-123
	STATE POLICE	1	72	10	5.00						2												2	X								VD-502SP		E-133
0.135 RAMP B LT	STOP DO NOT ENTER	1	30	30	6.25																											R1-1		
		1	30	30	6.25																											BACK TO BACK		
																																R5-1		
	ONE WAY ONE WAY	1	36	12	3.00						1					X		1														R6-1L		
		1	36	12	3.00																											BACK TO BACK		
																																R6-1R		
0.135 RAMP B RT	STOP DO NOT ENTER	1	30	30	6.25																											R1-1		
		1	30	30	6.25																											BACK TO BACK		
																																R5-1		
	ONE WAY ONE WAY	1	36	12	3.00						1					X		1														R6-1L		
		1	36	12	3.00																											BACK TO BACK		
																																R6-1R		
												FT	FT	FT	FT	FT 102.4	FT		EA.	LB	LB 45.4	LB		LB	LB 370.2	LB	LB							
SUBTOTALS SHEET 68		SF 132.63	SF	EA.	SF				FT			FT 102.4			LB 45.4			EA. 4	LB 370.2			EA.	EA.	LB										

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

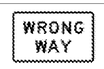
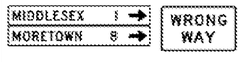
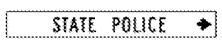
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int9.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 68

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 120 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 69

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT #9 0.030 RAMP C RT		1	36	36	9.00																													VR-046		E-142
		1	36	36	9.00						2												2	X									VR-002		E-142
0.095 RAMP C RT		1	30	30	6.25						1					X		1															R3-2		
INT #9 0.034 RAMP D RT		1	36	36	9.00						2					X		2															W3-1		
0.072 RAMP D RT		1 1	24 24	12 12	2.00 2.00																												M4-5 BLACK ON WHITE M4-5 GREEN ON WHITE		
		1 1	24 30	24 24	4.00 5.00																												M1-4 M1-5		E-136B
		1 1	21 21	15 15	2.19 2.19						2												2	X								#2A	M6-1R BLACK ON WHITE M6-1R GREEN ON WHITE		
0.110 RAMP D LT		1	36	24	6.00																												R5-1a		
		1	24	24	4.00						2					X		2															R9-4a		
0.110 RAMP D RT		1 1 1	72 72 36	12 12 24	6.00 6.00 6.00																												D1-1a D1-1a R5-1a BACK TO BACK		E-123 E-123
		1	72	10	5.00						2												2	X									VD-502SP		E-133
0.150 RAMP D LT		1 1	30 30	30 30	6.25 6.25																												R1-1 BACK TO BACK R5-1		
		1 1	36 36	12 12	3.00 3.00						1					X		1															R6-1L BACK TO BACK R6-1R		
0.150 RAMP D RT		1 1	30 30	30 30	6.25 6.25																												R1-1 BACK TO BACK R5-1		
		1 1	36 36	12 12	3.00 3.00						1					X		1															R6-1L BACK TO BACK R6-1R		
												FT	FT	FT	FT	FT 101.8	FT		EA.	LB	LB	LB		LB 531.4	LB	LB	LB								
SUBTOTALS SHEET 69		SF 120.63	SF	EA.	SF							FT			FT 101.8					LB			EA. 6	LB 531.4				EA.	EA.	LB				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int9.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 69

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 121 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 70

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 1.7	4.0Mod 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT #9	WATERBURY 6 → / STATE POLICE →	1	72	12	6.00																												D1-1a		E-123
0.000 MSH LT		1	72	10	5.00						2					X		2															VD-502SP		E-133
0.000 MSH RT	← MIDDLESEX 1 / ← MORETOWN 8	1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
	← WAITSFIELD 14 / ← WARREN 20	1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
	EAST TO WEST	1	24	12	2.00																												M3-2 BLACK ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
		1	24	12	2.00																												M3-4 BLACK ON WHITE		
	2 VERMONT 100B 2	1	24	24	4.00																												M1-4		
		1	30	24	5.00																												M1-5		E-136B
		1	24	24	4.00																												M1-4		
		1	21	15	2.19																												M6-1L BLACK ON WHITE		
		1	21	15	2.19						2												2		X						#3B	M6-1L GREEN ON WHITE		
		1	21	15	2.19																												M6-1R BLACK ON WHITE		
0.003 MSH LT	STOP	1	30	30	6.25						1					X		1															R1-1		
0.003 MSH LT	YIELD	1			3.90						1					X		1															R1-2 36" X 36" X 36"		
0.004 MSH RT		1	18	18	2.25						1				X			1															OM1-1		
0.007 MSH LT		1	18	18	2.25						1				X			1															OM1-1		
0.014 MSH RT	YIELD	1			3.90						1					X		1															R1-2 36" X 36" X 36"		
0.040 MSH RT	↑ WATERBURY 6 / ↑ BURLINGTON 32	1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
	MONTPELIER 7 → / WHITE RIVER JCT 60 →	1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
	NORTH SOUTH	1	24	12	2.00																												M3-1 WHITE ON BLUE		
		1	24	12	2.00																												M3-3 WHITE ON BLUE		
	89 89	1	24	24	4.00																												M1-1		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						2												2		X						#2	M6-3 WHITE ON BLUE		
		1	21	15	2.19																												M6-1R WHITE ON BLUE		
												FT	FT	FT	FT 19.0	FT 75.4	FT		EA.	LB	LB	LB		LB	LB 608.4	LB	LB								
	SUBTOTALS SHEET 70		SF 119.50		SF	EA.	SF					FT			FT 94.4					LB			EA. 4		LB 608.4			EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

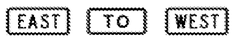
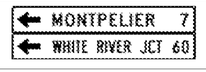
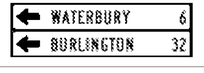
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int9.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 70

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 71

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.040 MSH LT		1	24	12	2.00																												M3-2 BLACK ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
		1	24	12	2.00																												M3-4 BLACK ON WHITE		
		1	24	24	4.00																												M1-4		
		1	30	24	5.00																												M1-5		E-136B
		1	24	24	4.00																												M1-4		
		1	21	15	2.19																												M6-1L BLACK ON WHITE		
		1	21	15	2.19						2										X										#3B	M6-1L GREEN ON WHITE		
		1	21	15	2.19																												M6-1R BLACK ON WHITE		
0.050 MSH RT		1	24	12	2.00																												M4-5 BLACK ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
		1	24	24	4.00																												M1-4		
		1	30	24	5.00																												M1-5		E-136B
		1	21	15	2.19																												M6-1R BLACK ON WHITE		
		1	21	15	2.19						2												2	X							#2A	M6-1R GREEN ON WHITE		
0.050 MSH RT		1	24	12	2.00																												M3-3 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						1					X		1															M6-1L WHITE ON BLUE		
0.100 MSH LT		1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
		1	24	12	2.00																												M3-3 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						2										X												M6-1L WHITE ON BLUE		
0.106 MSH RT		1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
		1	24	12	2.00																												M3-1 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						2										X												M6-1L WHITE ON BLUE		
												FT	FT	FT	FT	FT 16.0	FT		EA.	LB	LB 208.0	LB		LB 177.1	LB	LB	LB							
SUBTOTALS SHEET 71		SF 91.52	SF	EA.	SF							FT			FT 16.0					LB 208.0			EA. 2	LB 177.1				EA.	EA.	LB				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

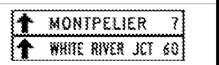
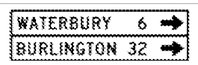
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int9.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 71

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 123 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 72

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.125 MSH LT		1	24	12	2.00																												M3-1 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19						1					X		1															M6-1L WHITE ON BLUE		
0.125 MSH LT		1	24	12	2.00																												M3-3 WHITE ON BLUE		
		1	24	12	2.00																												M4-5 BLACK ON WHITE		
		1	24	12	2.00																												M3-1 WHITE ON BLUE		
		1	24	24	4.00																												M1-1		
		1	24	24	4.00																												M1-4		
		1	24	24	4.00																												M1-1		
		1	21	15	2.19																												M6-3 WHITE ON BLUE		
		1	21	15	2.19						2												2	X							#3	M6-3 BLACK ON WHITE		
		1	21	15	2.19																												M6-1L WHITE ON BLUE		
0.125 MSH LT		1	24	12	2.00																												M4-5 BLACK ON WHITE		
		1	24	12	2.00																												M4-5 GREEN ON WHITE		
		1	24	24	4.00																												M1-4		
		1	30	24	5.00																												M1-5		E-136B
		1	21	15	2.19																												M6-1L BLACK ON WHITE		
		1	21	15	2.19						2												2	X							#2A	M6-1L GREEN ON WHITE		
0.166 MSH LT		1	24	18	3.00						1					X		1															VR-039		E-141
																																	BACK TO BACK		
		1	24	18	3.00																												VR-038		E-141
0.166 MSH RT		1	24	30	5.00						1					X		1															VR-017		E-141
0.186 MSH LT		1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
		1	72	12	6.00						2												2	X								D1-1a		E-123
		1	72	12	6.00																												D1-1a		E-123
0.226 MSH LT		1	21	15	2.19																												M2-1 WHITE ON BLUE		
		1	24	24	4.00						1					X		1															M1-1		
0.178 MSH RT	SALVAGED SIGNS						1																										RESET EXISTING SIGN ON NEW POST		
												FT	FT	FT	FT	FT 58.7	FT		EA.	LB	LB	LB		LB 555.7	LB	LB	LB								
		SUBTOTALS SHEET 72			SF 91.33	SF	EA.	SF				FT			FT	58.7				LB			EA. 6	LB 555.7				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_int9.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 72

PLOT DATE: 8/12/2009
DRAWN BY: SRB
CHECKED BY: DAM
SHEET 124 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 73

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
PARKING AREA RANDOLPH-SB MM 29.675																																			
0.050 RT		1	36	24	6.00						2					X		2															R5-1a		
0.068 LT		1	30	30	6.25						1					X		1															R5-1		
0.068 RT		1	30	30	6.25						1					X		1															R5-1 REPLACEMENT FOR SIGN DAMAGED IN TRAFFIC ACCIDENT.		
0.090 RT							1				1					X		1																	
0.110 RT		1	24	24	4.00						1					X		1															VR-648		E-144
0.130 RT		1	24	30	5.00						1					X		1															VR-602	145	
0.145 RT		1	36	12	3.00						2					X		2															R6-1L		
0.160 RT							1				1					X		1																	

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

									FT	FT	FT	FT	FT 122.5	FT		EA.	LB	LB	LB		LB	LB	LB	LB											
SUBTOTALS SHEET 73	SF 30.50	SF	EA. 2	SF		FT			FT 122.5			LB			EA.	LB				EA.	EA.	LB														

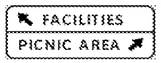
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_restareas.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 73

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 125 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 74

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
REST AREA RANDOLPH-SB MM 33.600																																			
0.050 RAMP A LT		1	36	24	6.00						2					X		2														R5-1a		
0.050 RAMP A RT		1	36	24	6.00						2					X		2														R5-1a		
0.070 RAMP A LT		1	30	30	6.25						1					X		1														R5-1		
0.070 RAMP A RT		1	30	30	6.25						1					X		1														R5-1		
0.086 RAMP A LT		1	18	18	2.25						1				X			1														OM1-1		
0.087 RAMP A LT		1	102	42		29.75					2												2	X									145	
0.160 RAMP A RT		1	30	24	5.00						1					X		1														VR-032		E-144
0.315 RAMP A LT		1 1	30 30	30 30	6.25 6.25						1					X		1														R3-2 BACK TO BACK R5-1		
0.315 RAMP A RT		1 1	 30	 30	3.90 6.25						1					X		1														R1-2 36" X 36" X 36" BACK TO BACK R5-1		
0.330 RAMP A LT		1	36	12	3.00						2					X		2														R6-1R		
0.330 RAMP A RT		1	36	12	3.00						2					X		2														R6-1L		
0.350 RAMP A RT		1	24	30	5.00						1					X		1														VR-602	145	
0.372 RAMP A RT							1				2					X		2																
											FT	FT	FT		FT 9.5	FT 205.2	FT		EA.	LB	LB	LB		LB 144.4	LB	LB	LB								
SUBTOTALS SHEET 74			SF 65.40	SF 29.75	EA. 1	SF						FT				FT 214.7					LB		EA. 2		LB 144.4			EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

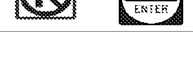
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_restareas.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 74

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 75

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.030 RAMP B RT		1	24	24	4.00																												VD-10R	145	
		1	24	30	5.00						1					X		1															VD-239L	145	
0.050 RAMP B RT		1	30	24	5.00						1					X		1															VR-032		E-144
0.060 RAMP B LT		1	24	24	4.00						1					X		1															VR-648		E-144
0.070 RAMP B RT							1																												
		1	12	18	1.50						1					X		1																145	
0.078 RAMP B RT		1	12	18	1.50						1					X		1																145	
0.086 RAMP B RT		1	12	18	1.50																													145	
		1	12	6	0.50						1					X		1															R7-8b		
0.093 RAMP B LT		1	24	24	4.00						1					X		1															VR-648		E-144
0.093 RAMP B RT		1	24	36	6.00																												VR-278		E-144
		1	24	24	4.00						1									X													VR-648		E-144
0.110 RAMP B RT		1	36	12	3.00						2					X		2															R6-1L		
0.130 RAMP B LT		1	30	30	6.25						1					X		1															R5-1		
0.130 RAMP B RT		1 1	30 30	30 30	6.25 6.25						1					X		1															R3-2 BACK TO BACK R5-1		
		FT	FT	FT	FT	FT 135.0	FT		EA.		LB	LB 18.2	LB		LB	LB	LB	LB																	
SUBTOTALS SHEET 75		SF 58.75	SF	EA. 1	SF		FT		FT 135.0		LB 18.2			EA.	LB					EA.	EA.	LB													

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

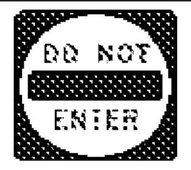
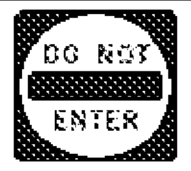
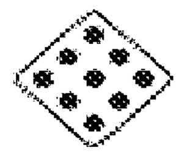
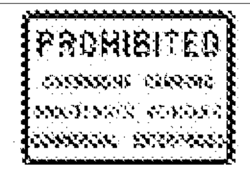
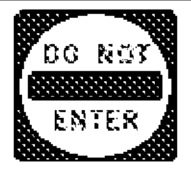
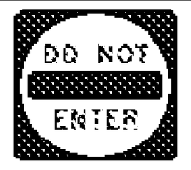
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_restareas.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 75

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 76

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	SIGN DIMENSIONS WIDTH (in)	SIGN DIMENSIONS HEIGHT (in)	NEW & SALVAGED SIGNS "A"	NEW & SALVAGED SIGNS "B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	FLANGED CHANNEL lb/ft 2.0	FLANGED CHANNEL lb/ft 3.0	SQUARE STEEL (in) 1.75, lb/ft 1.88	SQUARE STEEL (in) 2.0, lb/ft 2.42	SQUARE STEEL (in) 2.5, lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0, lb/ft 1.3	TUBULAR ALUMINUM DIA (in) 4.0, lb/ft 1.7	TUBULAR ALUMINUM DIA (in) 4.0Mod, lb/ft 1.7	FND-ATION	TUBULAR STEEL DIA (in) 3.0, lb/ft 7.6	TUBULAR STEEL DIA (in) 3.5, lb/ft 9.0	TUBULAR STEEL DIA (in) 4.0, lb/ft 10.8	TUBULAR STEEL DIA (in) 5.0, lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	SIGN DETAIL: STD. SHEET NUMBER
REST AREA RANDOLPH-NB MM 34.450																																			
0.027 RAMP A LT		1	36	24	6.00						2					X		2															R5-1a		
0.027 RAMP A RT		1	36	24	6.00						2					X		2															R5-1a		
0.040 RAMP A LT		1	30	30	6.25						1					X		1															R5-1		
0.040 RAMP A RT		1	30	30	6.25						1					X		1															R5-1		
0.048 RAMP A LT		1	18	18	2.25						1				X			1															OM1-1		
0.090 RAMP B RT		1	30	24	5.00						1					X		1															VR-032		E-144
0.200 RAMP B RT		1	24	30	5.00						1					X		1															VR-602	145	
0.225 RAMP B LT		1	30	30	6.25						1					X		1															R5-1		
0.225 RAMP B RT		1	30	30	6.25						1					X		1															R5-1		
												FT	FT	FT	FT 9.5	FT 123.5	FT		EA.	LB	LB	LB		LB	LB	LB	LB								
SHEET TOTALS					SF 49.25	SF	EA.	SF				FT			FT 133.0					LB			EA.	LB				EA.	EA.	LB					

OMIT PER OOC I

THESE WERE OMITTED AT PRE CONSTRUCTION WRITTEN ORDER #I

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME:	090106_tss_restareas.xls	PLOT DATE:	8/12/2009
PROJECT LEADER:	CRB	DRAWN BY:	JH
DESIGNED BY:	BDB	CHECKED BY:	DAM
TRAFFIC SIGN SUMMARY SHEET # 76		SHEET	128 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 77

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	SIGN DIMENSIONS WIDTH (in)	SIGN DIMENSIONS HEIGHT (in)	NEW & SALVAGED SIGNS "A"	NEW & SALVAGED SIGNS "B"	NEW & SALVAGED SIGNS SALV SIGN	NEW & SALVAGED SIGNS SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	FLANGED CHANNEL lb/ft 2.0	FLANGED CHANNEL lb/ft 3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	SQUARE STEEL (in) 2.0 lb/ft 2.42	SQUARE STEEL (in) 2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) 3.0 lb/ft 1.3	TUBULAR ALUMINUM DIA (in) 4.0 lb/ft 1.7	TUBULAR ALUMINUM DIA (in) 4.0Mod lb/ft 1.7	TUBULAR STEEL DIA (in) FND-ATION	TUBULAR STEEL DIA (in) 3.0 lb/ft 7.6	TUBULAR STEEL DIA (in) 3.5 lb/ft 9.0	TUBULAR STEEL DIA (in) 4.0 lb/ft 10.8	TUBULAR STEEL DIA (in) 5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	SIGN DETAIL STD. SHEET NUMBER
	SUBTOTALS SHEET 1				130.56	646.50	0	0.00				0.0			474.0					49.6			4		387.6			8	0	3625					
	SUBTOTALS SHEET 2				163.63	68.00	0	0.00				0.0			86.1					212.6			11		1332.8			0	0	0					
	SUBTOTALS SHEET 3				89.25	592.50	1	0.00				0.0			79.5					0.0			4		372.4			10	0	3521					
	SUBTOTALS SHEET 4				137.13	95.50	0	0.00				0.0			86.6					69.9			11		1482.2			0	0	0					
	SUBTOTALS SHEET 5				97.00	418.00	0	0.00				0.0			161.9					0.0			6		854.6			4	0	1404					
	SUBTOTALS SHEET 6				126.38	577.25	0	0.00				0.0			80.2					49.6			7		691.6			6	0	2603					
	SUBTOTALS SHEET 7				168.50	225.00	0	0.00				0.0			63.7					121.2			10		1134.3			2	0	855					
	SUBTOTALS SHEET 8				131.38	537.00	0	0.00				0.0			114.1					49.6			7		684.0			6	0	2468					
	SUBTOTALS SHEET 9				150.00	601.00	0	0.00				0.0			54.0					129.4			6		765.7			8	0	2817					
	SUBTOTALS SHEET 10				134.38	160.00	0	0.00				0.0			112.6					164.8			5		501.6			2	0	805					
	SUBTOTALS SHEET 11				179.00	446.50	0	0.00				0.0			54.5					121.2			8		906.3			6	0	1820					
	SUBTOTALS SHEET 12				175.25	333.50	0	0.00				0.0			691.9					49.6			4		395.2			4	0	1553					
	SUBTOTALS SHEET 13				123.13	0.00	0	0.00				0.0			191.6					146.2			3		319.2			0	0	0					
	SUBTOTALS SHEET 14				177.00	27.00	0	0.00				0.0			109.6					244.7			8		970.9			0	0	0					
	SUBTOTALS SHEET 15				108.00	448.25	0	0.00				0.0			129.7					62.8			6		884.9			4	0	1685					
	SUBTOTALS SHEET 16				154.63	205.50	0	0.00				0.0			47.4					146.2			7		816.6			2	0	889					
	SUBTOTALS SHEET 17				58.00	27.00	0	0.00				0.0			73.7					54.4			4		440.8			0	0	0					
	SUBTOTALS SHEET 18				148.22	30.00	0	0.00				0.0			326.4					166.5			7		818.9			0	0	0					
	SUBTOTALS SHEET 19				131.50	767.50	0	0.00				0.0			104.8					0.0			6		646.0			6	0	3001					
	SUBTOTALS SHEET 20				25.50	123.50	7	0.00				0.0			67.8					0.0			13		1790.6			0	0	0					
	SUBTOTALS SHEET 21				93.25	647.50	1	0.00				0.0			79.7					0.0			4		741.1			10	0	3971					
	SUBTOTALS SHEET 22				121.00	66.00	0	0.00				0.0			170.1					0.0			10		1379.5			0	0	0					
	SUBTOTALS SHEET 23				105.38	349.00	0	0.00				0.0			80.0					119.5			5		478.8			4	0	1910					
	SUBTOTALS SHEET 24				151.50	610.75	0	0.00				0.0			63.1					71.6			8		1011.9			6	0	2779					
	SUBTOTALS SHEET 25				115.38	474.75	0	0.00				0.0			112.6					68.2			7		684.0			6	0	2417					
	SUBTOTALS SHEET 26				152.00	525.75	0	0.00				0.0			53.8					71.6			10		1493.3			4	0	2137					
	SUBTOTALS SHEET 27				114.38	323.50	0	0.00				0.0			112.8					69.9			7		684.0			4	0	1900					
	SUBTOTALS SHEET 28				153.00	517.00	0	0.00				0.0			73.9					69.9			10		1354.2			6	0	2361					
	SUBTOTALS SHEET 29				120.38	354.00	0	0.00				0.0			181.3					0.0			7		699.2			4	0	2151					
	SUBTOTALS SHEET 30				188.00	540.00	0	0.00				0.0			267.6					99.2			2		205.2			6	0	2574					
	SUBTOTALS SHEET 31				138.00	36.00	0	0.00				0.0			165.2					192.8			6		712.4			0	0	0					
	SUBTOTALS SHEET 32				137.38	30.00	0	0.00				0.0			80.0					169.1			7		793.8			0	0	0					
	SUBTOTALS SHEET 33				84.25	519.75	0	0.00				0.0			76.4					0.0			0		0.0			6	0	3059					
	SUBTOTALS SHEET 34				29.69	0.00	10	0.00				0.0			180.4					62.4			0		0.0			0	0	0					
	SUBTOTALS SHEET 35				94.89	0.00	6	0.00				0.0			73.9					111.7			2		234.9			0	0	0					
	SUBTOTALS SHEET 36				103.14	0.00	0	0.00				0.0			102.7					0.0			4		418.9			0	0	0					
	SUBTOTALS SHEET 37				76.39	0.00	0	0.00				0.0			88.4					65.8			0		0.0			0	0	0					
	SUBTOTALS SHEET 38				92.70	0.00	0	0.00				0.0			108.5					0.0			4		363.4			0	0	0					
	SUBTOTALS SHEET 39				125.82	0.00	0	0.00				0.0			72.3					0.0			8		755.7			0	0	0					
	SUBTOTALS SHEET 40				138.57	0.00	0	0.00				0.0			89.6					192.8			0		0.0			0	0	0					
	SUBTOTALS SHEET 41				100.69	0.00	0	0.00				0.0			87.7					66.5			2		177.9			0	0	0					
	SUBTOTALS SHEET 42				78.32	0.00	1	0.00				0.0			85.6					0.0			4		378.6			0	0	0					
	SUBTOTALS SHEET 43				64.95	0.00	0	0.00				0.0			71.3					0.0			2		185.5			0	0	0					
	SUBTOTALS SHEET 44				49.07	0.00	0	0.00				0.0			46.8					98.4			0		0.0			0	0	0					
	SUBTOTALS SHEET 45				81.33	0.00	0	0.00				0.0			57.3					131.6			0		0.0			0	0	0					
	SUBTOTALS SHEET 46				70.38	0.00	0	0.00				0.0			42.4					38.0			4		371.0			0	0	0					
	SUBTOTALS SHEET 47				121.01	0.00	0	0.00				0.0			38.7					0.0			6		785.3			0	0	0					
	SUBTOTALS SHEET 48				89.06	0.00	0	0.00				0.0			60.5					45.4			4		426.5			0	0	0					
	SUBTOTALS SHEET 49				127.01	0.00	0	0.00				0.0			40.4					137.0			2		380.1			0	0	0					
												FT	FT	FT	FT	FT	FT		EA.	LB	LB	LB		LB	LB	LB	LB								
	SUBTOTALS SHEET 77				SF 5725.36	SF 11323.50	EA. 26	SF 0.00				FT 0.0			FT 5,873.1					LB 3719.7			EA. 262		LB 30911.4			EA. 124	EA. 0	LB 52305					

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

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_totals.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 77

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 129 OF 163

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 78

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																						REMARKS	SIGN DETAIL	
		EA	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POSTS	FLANGED CHANNEL lb/ft			SQUARE STEEL (in) lb/ft			ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (in) lb/ft			TUBULAR STEEL DIA (in) FND-ATION		lb/ft			W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	SIGN FRAME		DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
												1.12	2.0	3.0	1.75	2.0	2.5			3.0	4.0	4.0Mod		3.0	3.5	4.0	5.0	24"	30"						
															1.88	2.42	3.35			1.3	1.7	1.7		7.6	9.0	10.8	14.6								
	SUBTOTALS SHEET 50				67.41	0.00	0	0.00					0.0			71.2					0.0			2		234.9			0	0	0					
	SUBTOTALS SHEET 51				88.26	0.00	0	0.00					0.0			103.7					0.0			4		370.2			0	0	0					
	SUBTOTALS SHEET 52				90.63	0.00	0	0.00					0.0			83.3					0.0			2		212.1			0	0	0					
	SUBTOTALS SHEET 53				68.88	0.00	0	0.00					0.0			69.8					0.0			2		212.1			0	0	0					
	SUBTOTALS SHEET 54				84.51	0.00	0	0.00					0.0			96.6					65.8			0		0.0			0	0	0					
	SUBTOTALS SHEET 55				71.44	0.00	0	0.00					0.0			78.6					66.9			2		184.0			0	0	0					
	SUBTOTALS SHEET 56				116.90	0.00	0	0.00					0.0			285.0					45.4			1		72.2			0	0	0					
	SUBTOTALS SHEET 57				104.50	375.00	0	0.00					0.0			329.2					0.0			2		199.2			0	0	0					
	SUBTOTALS SHEET 58				87.38	0.00	4	0.00					0.0			120.0					0.0			5		440.9			0	0	0					
	SUBTOTALS SHEET 59				63.44	0.00	2	0.00					0.0			134.0					0.0			0		0.0			0	0	0					
	SUBTOTALS SHEET 60				101.00	0.00	0	0.00					0.0			328.4					0.0			0		0.0			0	0	0					
	SUBTOTALS SHEET 61				82.13	375.00	0	0.00					0.0			74.1					138.8			0		0.0			0	0	0					
	SUBTOTALS SHEET 62				117.26	0.00	0	0.00					0.0			150.0					113.3			2		177.1			0	0	0					
	SUBTOTALS SHEET 63				43.57	0.00	0	0.00					0.0			41.0					0.0			2		177.1			0	0	0					
	SUBTOTALS SHEET 64				143.75	0.00	0	0.00					0.0			454.6					0.0			2		191.6			0	0	0					
	SUBTOTALS SHEET 65				101.75	340.00	0	0.00					0.0			292.0					0.0			2		199.1			0	0	0					
	SUBTOTALS SHEET 66				113.97	0.00	0	0.00					0.0			104.8					134.3			2		177.1			0	0	0					
	SUBTOTALS SHEET 67				67.69	0.00	0	0.00					0.0			141.9					0.0			0		0.0			0	0	0					
	SUBTOTALS SHEET 68				132.63	0.00	0	0.00					0.0			102.4					45.4			4		370.2			0	0	0					
	SUBTOTALS SHEET 69				120.63	0.00	0	0.00					0.0			101.8					0.0			6		531.4			0	0	0					
	SUBTOTALS SHEET 70				119.50	0.00	0	0.00					0.0			94.4					0.0			4		608.4			0	0	0					
	SUBTOTALS SHEET 71				91.52	0.00	0	0.00					0.0			16.0					208.0			2		177.1			0	0	0					
	SUBTOTALS SHEET 72				91.33	0.00	0	0.00					0.0			58.7					0.0			6		555.7			0	0	0					
	SUBTOTALS SHEET 73				30.50	0.00	2	0.00					0.0			122.5					0.0			0		0.0			0	0	0					
	SUBTOTALS SHEET 74				65.40	29.75	1	0.00					0.0			214.7					0.0			2		144.4			0	0	0					
	SUBTOTALS SHEET 75				58.75	0.00	1	0.00					0.0			135.0					18.2			0		0.0			0	0	0					
	SUBTOTALS SHEET 76				49.25	0.00	0	0.00					0.0			133.0					0.0			0		0.0			0	0	0					
	SUBTOTALS SHEET 77				5725.36	11323.50	26	0.00					0.0			5873.1					3719.7			262		30911.4			124	0	52305					
	SUBTOTAL				8099.34	12443.25	36	0.00					0.0			9809.8					4555.8			316		36146.2			124	0	52305					
	ROUNDING				0.66	0.75	0	0.00					0.0			0.2					0.2			0		0.8			0	0	0					
												FT	FT	FT	FT	FT	FT	EA.		LB	LB	LB		LB	LB	LB	LB								
	PROJECT TOTALS				SF 8983.69 ~~8100.00~~	SF 12684.50 ~~12443.00~~	EA. 36	SF 0.00				FT 0.0			FT 9,810.0					LB 4556.0			EA. 316		LB 36147.0			EA. 124	EA. 0	LB 52305					

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

PROJECT NAME: ROYALTON - MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: 090106_tss_totals.xls
PROJECT LEADER: CRB
DESIGNED BY: BDB
TRAFFIC SIGN SUMMARY SHEET # 78

PLOT DATE: 8/12/2009
DRAWN BY: JH
CHECKED BY: DAM
SHEET 130 OF 163

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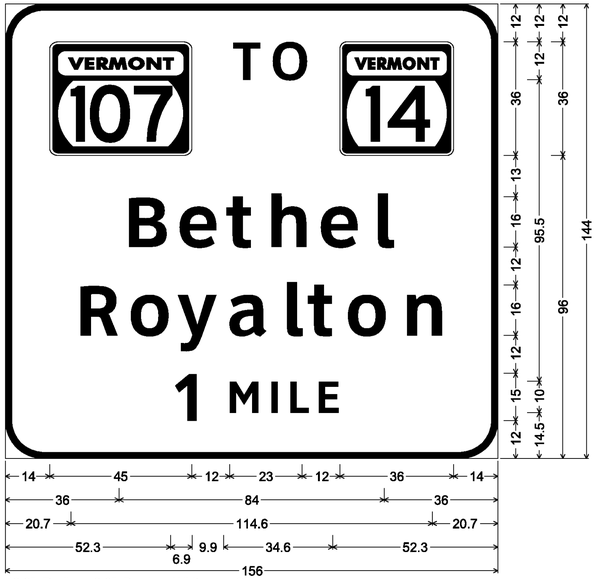
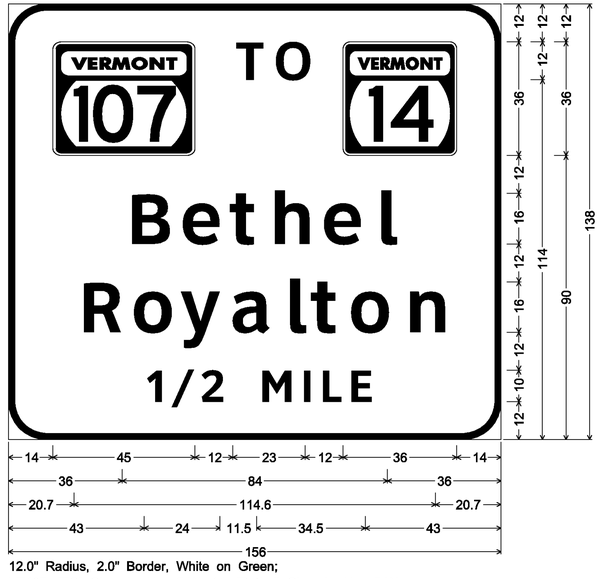
MM 21.320 NB



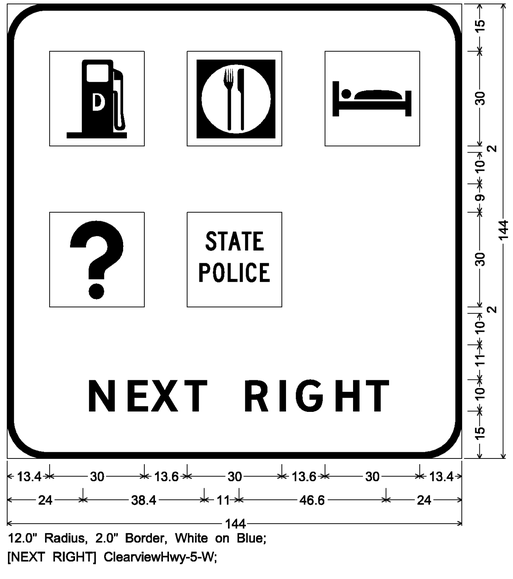
12.0" Radius, 2.0" Border, White on Green;
VT107; [TO] ClearviewHwy-5-W; 14; [Bethel] ClearviewHwy-5-W;
[Royalton] ClearviewHwy-5-W; [1 MILE] ClearviewHwy-5-W;

MM 21.650 NB



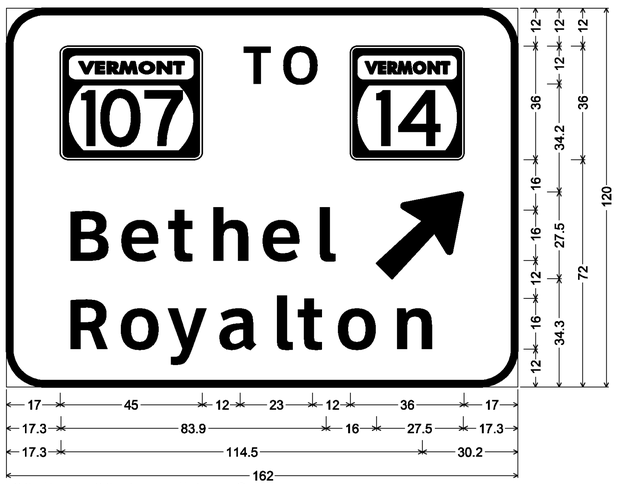
12.0" Radius, 2.0" Border, White on Green;
VT107; [TO] ClearviewHwy-5-W; 14; [Bethel] ClearviewHwy-5-W;
[Royalton] ClearviewHwy-5-W; [1/2 MILE] ClearviewHwy-5-W;

MM 21.920 NB



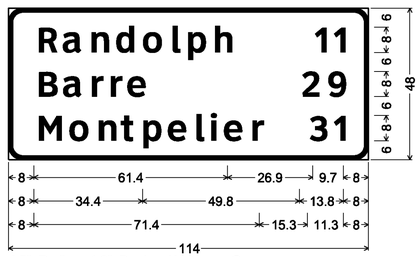
12.0" Radius, 2.0" Border, White on Blue;
[NEXT RIGHT] ClearviewHwy-5-W;

MM 22.135 NB



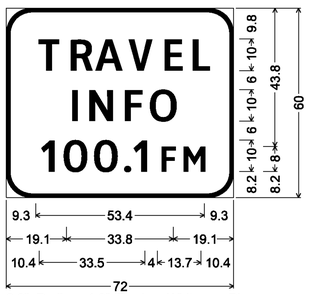
12.0" Radius, 2.0" Border, White on Green;
VT107; [TO] ClearviewHwy-5-W; 14; [Bethel] ClearviewHwy-5-W;
Arrow 160 - 35.0" 45°; [Royalton] ClearviewHwy-5-W;

MM 23.210 NB



4.5" Radius, 1.3" Border, White on Green;
[Randolph] ClearviewHwy-5-W;
[Barre] ClearviewHwy-5-W;
[Montpelier] ClearviewHwy-5-W;
[11] ClearviewHwy-5-W; [29] ClearviewHwy-5-W;
[31] ClearviewHwy-5-W;

MM 27.040 NB
MM 38.150 SB



8.0" Radius, 1.3" Border, White on Blue;
[TRAVEL] ClearviewHwy-4-W;
[INFO] ClearviewHwy-4-W;
[100.1] ClearviewHwy-4-W 70% spacing;
[FM] ClearviewHwy-4-W;

GENERAL SIGN DETAIL NOTES

1. THE NOTE BELOW EACH SIGN DETAIL INCLUDES THE CORNER RADII, BORDER WIDTH, TEXT COLOR, BACKGROUND COLOR AND TEXT SERIES TO BE USED.

2. COLORS: UNLESS NOTED OTHERWISE, WHITE ON GREEN AND WHITE ON BLUE SIGNIFIES WHITE ASTM TYPE IX RETROREFLECTIVE LEGEND AND BORDER ON GREEN OR BLUE ASTM TYPE III RETROFREFLECTIVE BACKGROUND. BLACK ON YELLOW AND BLACK ON WHITE SIGNIFIES BLACK LEGEND AND BORDER ON YELLOW OR WHITE ASTM TYPE III (MINIMUM) RETROREFLECTIVE BACKGROUND. ALL COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY AASHTO AND APPROVED BY FHWA.

3. TEXT LAYOUT DIMENSIONS ARE BASED ON THE CLEARVIEW FONT OR THE STANDARD ALPHABETS SPACING CHARTS FOUND IN THE MUTCD "STANDARD HIGHWAY SIGNS" PUBLICATION. MINOR VARIATIONS IN TEXT DIMENSIONS ARE ACCEPTABLE BASED ON INDIVIDUAL MANUFACTURER'S LETTER FABRICATION. SIGNIFICANT CHANGES WHICH AFFECT SIGN APPEARANCE SHALL BE BROUGHT TO THE ATTENTION OF THE VTRANS' TRAFFIC AND SAFETY SECTION BEFORE FABRICATION.

4. UNLESS NOTED OTHERWISE, THE DESIGN/DIMENSIONS FOR SYMBOLS SHOWN ON THESE SIGNS CAN BE FOUND IN VTRANS' STANDARDS OR IN THE STANDARD HIGHWAY SIGNS PUBLICATION.

5. FOR GUIDE SIGN ROUTE MARKER DETAILS SEE STD'S E-135, E-136A AND E-136B.

6. THE NOTE BELOW EACH GUIDE SIGN DETAIL SPECIFIES APPROPRIATE ARROW LENGTHS WHEN APPLICABLE. FOR ARROW DIMENSIONS REFER TO GUIDE SIGN ARROW DETAILS IN THE STANDARD HIGHWAY SIGNS PUBLICATION.

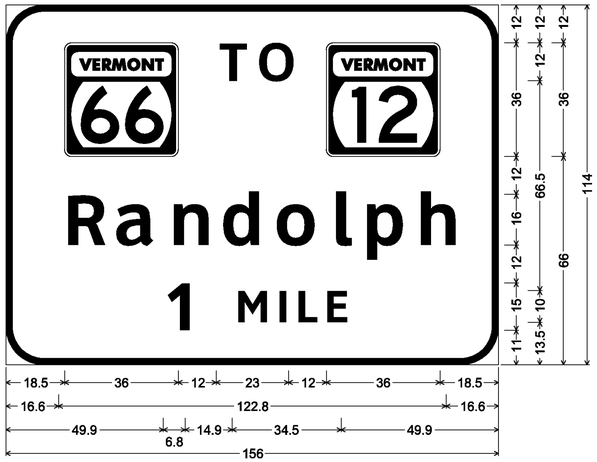
SIGN DETAIL SHEET 1

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 132 OF 163

MODEL: 01

MM 29.680 NB
MM 32.060 SB

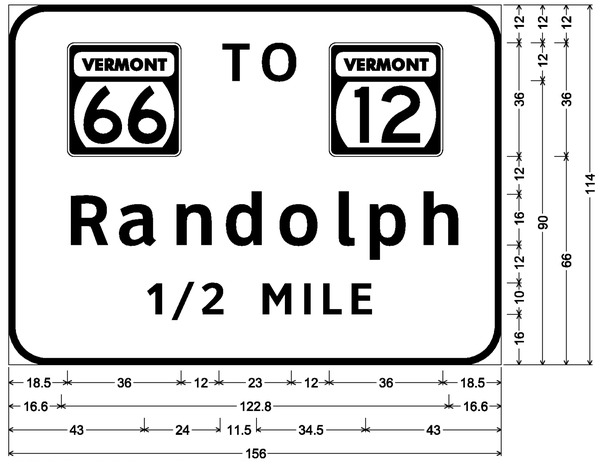


12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; 14; [Randolph] ClearviewHwy-5-W;
[1 MILE] ClearviewHwy-5-W;

MM 29.930 NB
MM 31.820 SB

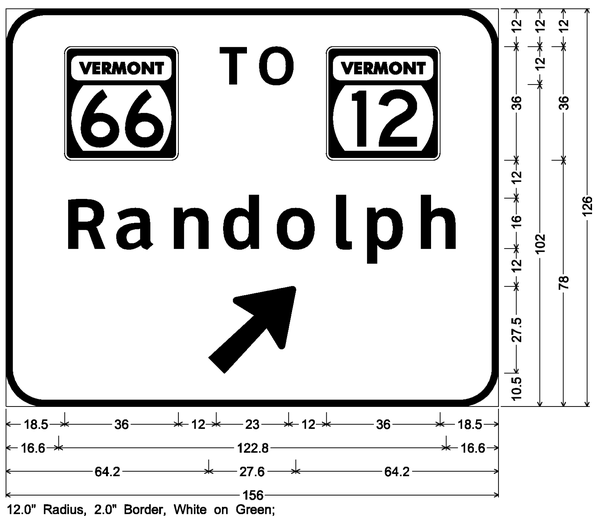
12.0" Radius, 2.0" Border, White on Green;
[VT Veterans Cemetery] ClearviewHwy-5-W 75% spacing; [VT Technical College] ClearviewHwy-5-W 75% spacing;
[EXIT 4] ClearviewHwy-5-W;

MM 30.180 NB
MM 31.570 SB



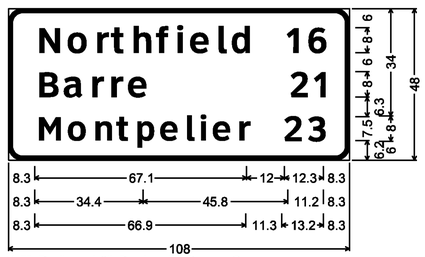
12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; 14; [Randolph] ClearviewHwy-5-W;
[1/2 MILE] ClearviewHwy-5-W;

MM 30.500 NB
MM 31.200 SB



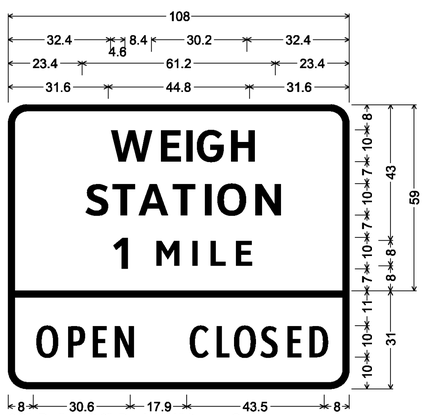
12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; 14; [Randolph] ClearviewHwy-5-W;
Arrow 160 - 35.0" 45°;

MM 31.930 NB

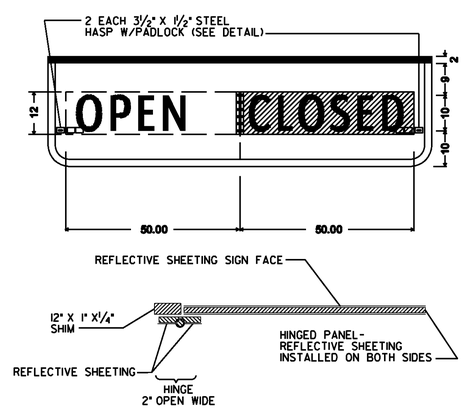


4.5" Radius, 1.3" Border, White on Green;
[Northfield] ClearviewHwy-5-W;
[Barre] ClearviewHwy-5-W; [16] ClearviewHwy-5-W;
[21] ClearviewHwy-5-W;
[Montpelier] ClearviewHwy-5-W;
[23] ClearviewHwy-5-W;

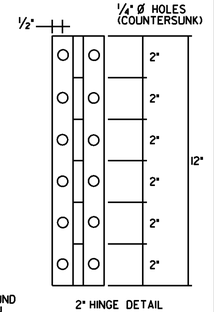
MM 33.426 NB



6.0" Radius, 2.0" Border, White on Green;
[WEIGH] ClearviewHwy-5-W specified length;
[STATION] ClearviewHwy-5-W specified length;
[1 MILE] ClearviewHwy-5-W specified length;
6.0" Radius, 2.0" Border, White on Green;
[OPEN] ClearviewHwy-2-W;
[CLOSED] ClearviewHwy-2-W;



THE CENTRALLY HINGED PANEL TO HAVE THE WORD "OPEN" DISPLAYED WHEN SWUNG TO THE RIGHT AND "CLOSED" DISPLAYED WHEN SWUNG TO THE LEFT ON THE PARENT SIGN. FURNISH AND MOUNT STAINLESS STEEL RETAINERS TO SECURE THE PANEL IN EITHER POSITION. PANEL POSITION WILL BE CHANGED FROM THE GROUND WITH A POLE. HINGE TO BE COVERED WITH SAME REFLECTORIZED MATERIAL AS MAIN SIGN. ADJUST LETTER TO LETTER SPACING TO CLEAR HINGE IF NECESSARY AND OTHER LETTERS ACCORDINGLY.



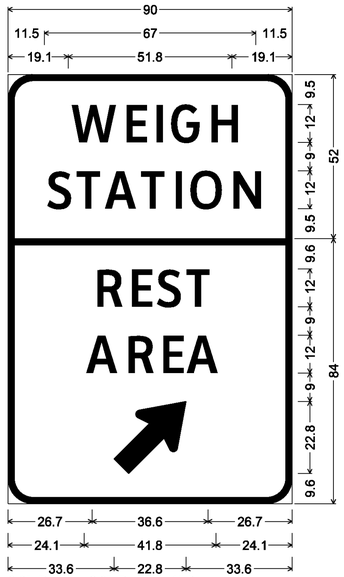
SIGN DETAIL SHEET 2

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 133 OF 163

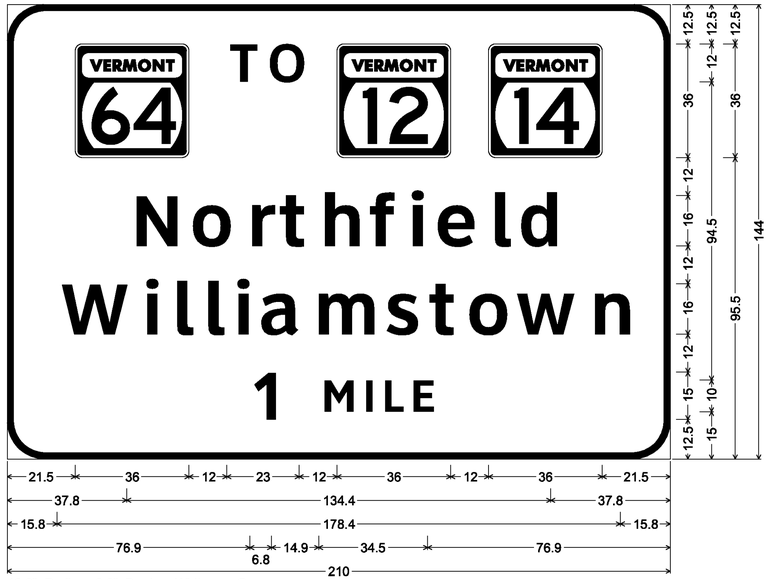
MODEL: 02

MM 33.684 SB



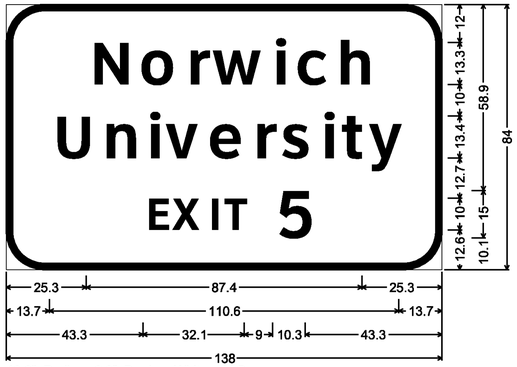
8.0" Radius, 2.0" Border, White on Green;
[WEIGH] ClearviewHwy-3-W;
[STATION] ClearviewHwy-3-W;
8.0" Radius, 2.0" Border, White on Blue;
[REST] ClearviewHwy-3-W;
[AREA] ClearviewHwy-3-W;
Standard Arrow Custom 29.0" X 17.6" 45°;

MM 41.840 NB
MM 44.250 SB



12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; 14; 14; [Northfield] ClearviewHwy-5-W; [Williamstown] ClearviewHwy-5-W;
[1 MILE] ClearviewHwy-5-W;

MM 41.990 NB



12.0" Radius, 2.0" Border, White on Green;
[Norwich] ClearviewHwy-5-W; [University] ClearviewHwy-5-W;
[EXIT 5] ClearviewHwy-5-W;

MODEL: 03

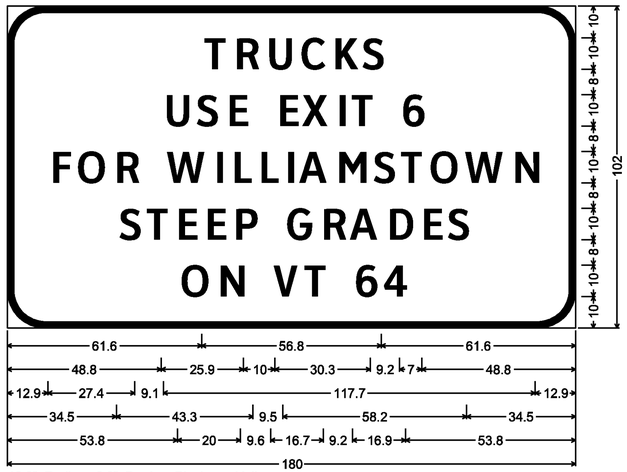
SIGN DETAIL SHEET 3

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

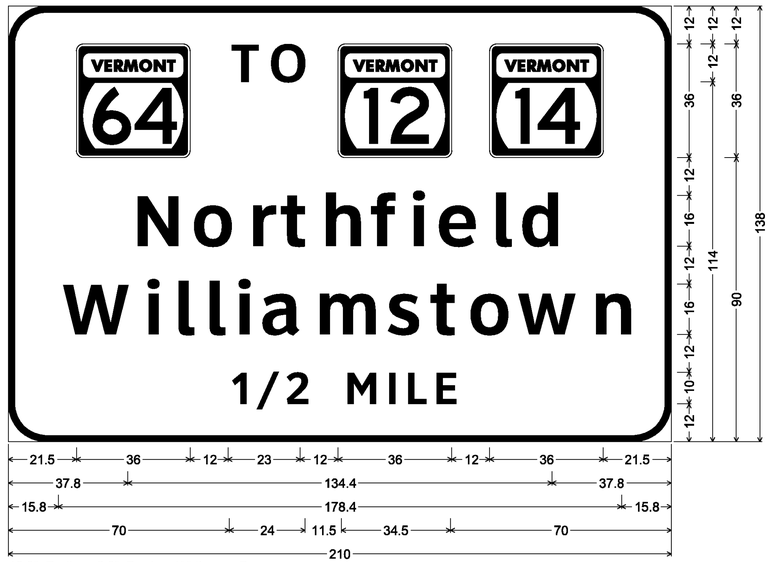
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 134 OF 163

MM 42.140 NB
MM 47.200 SB



12.0" Radius, 2.0" Border, Black on Yellow;
[TRUCKS] ClearviewHwy-4-B; [USE EXIT 6] ClearviewHwy-4-B;
[FOR WILLIAMSTOWN] ClearviewHwy-4-B; [STEEP GRADES] ClearviewHwy-4-B;
[ON VT 64] ClearviewHwy-4-B;

MM 42.290 NB
MM 43.540 SB

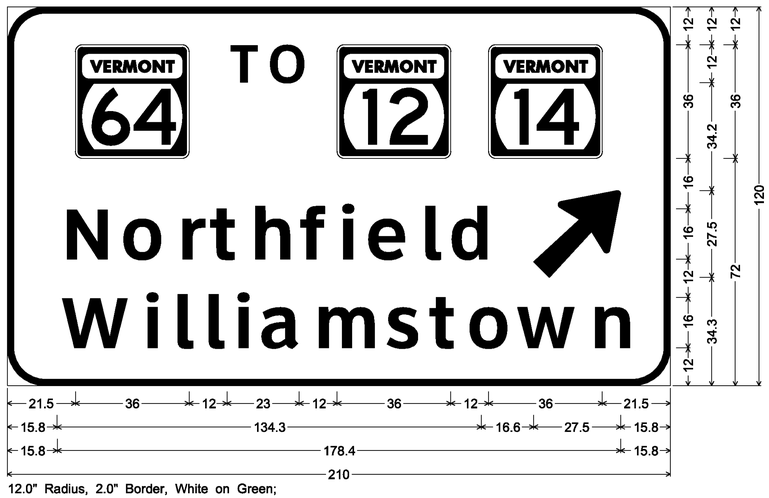


12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; 14; 14; [Northfield] ClearviewHwy-5-W; [Williamstown] ClearviewHwy-5-W;
[1/2 MILE] ClearviewHwy-5-W;

MM 42.440 NB
MM 43.390 SB

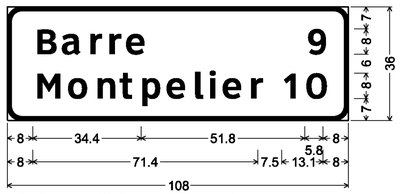
12.0" Radius, 2.0" Border, White on Blue;
[NEXT RIGHT] ClearviewHwy-5-W;

MM 42.716 NB
MM 43.240 SB



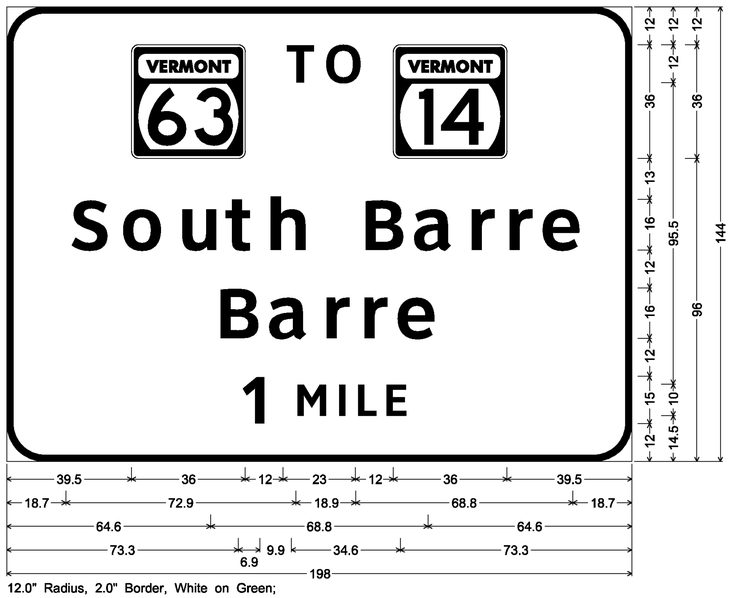
12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; 14; 14; [Northfield] ClearviewHwy-5-W; Arrow 160 - 35.0" 45°;
[Williamstown] ClearviewHwy-5-W;

MM 43.830 NB



4.5" Radius, 1.3" Border, White on Green;
[Barre] ClearviewHwy-5-W;
[Montpelier] ClearviewHwy-5-W;
[9] ClearviewHwy-5-W; [10] ClearviewHwy-5-W;

MM 45.900 NB
MM 47.815 SB



12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; 14; [South Barre] ClearviewHwy-5-W; [Barre] ClearviewHwy-5-W;
[1 MILE] ClearviewHwy-5-W;

SIGN DETAIL SHEET 4

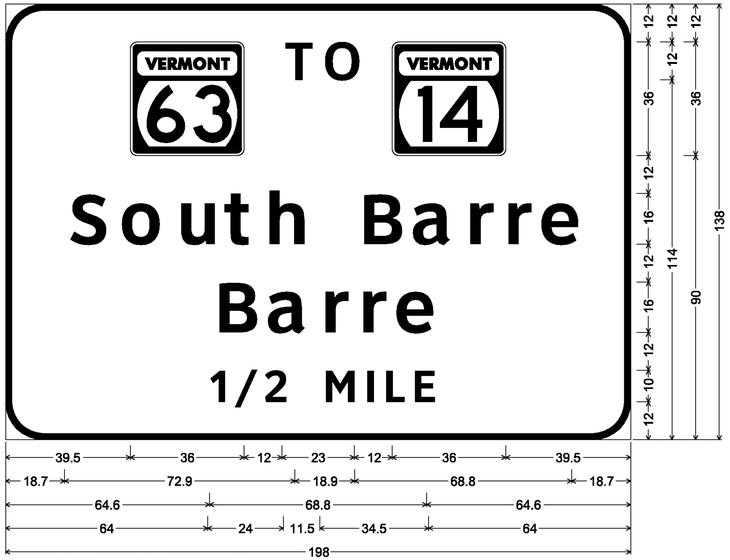
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 135 OF 163

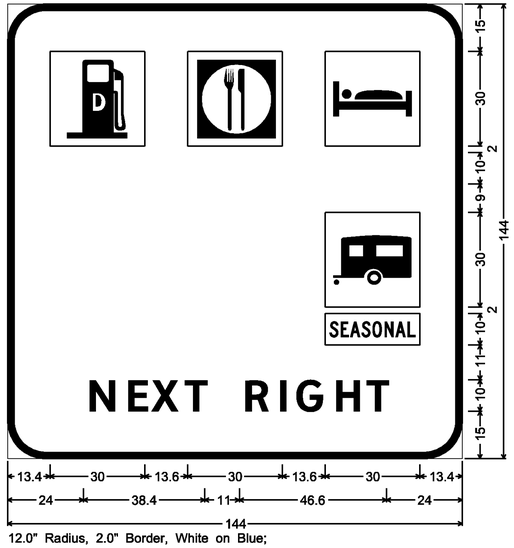
MODEL: 04

MM 46.250 NB
MM 47.510 SB



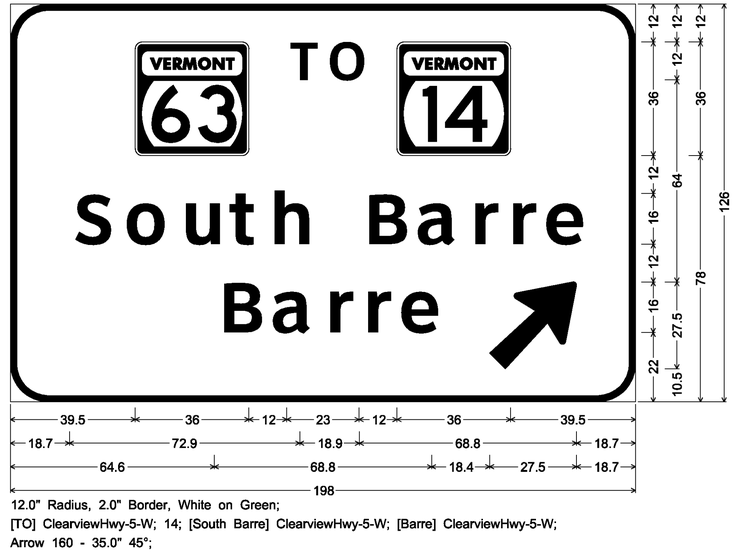
12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; 14; [South Barre] ClearviewHwy-5-W; [Barre] ClearviewHwy-5-W;
[1/2 MILE] ClearviewHwy-5-W;

MM 46.405 NB
MM 47.360 SB



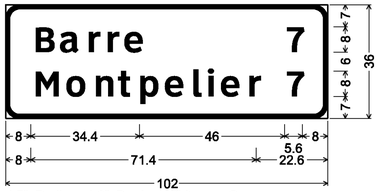
12.0" Radius, 2.0" Border, White on Blue;
[NEXT RIGHT] ClearviewHwy-5-W;

MM 46.535 NB
MM 46.940 SB



12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; 14; [South Barre] ClearviewHwy-5-W; [Barre] ClearviewHwy-5-W;
Arrow 160 - 35.0" 45°;

MM 47.925 NB

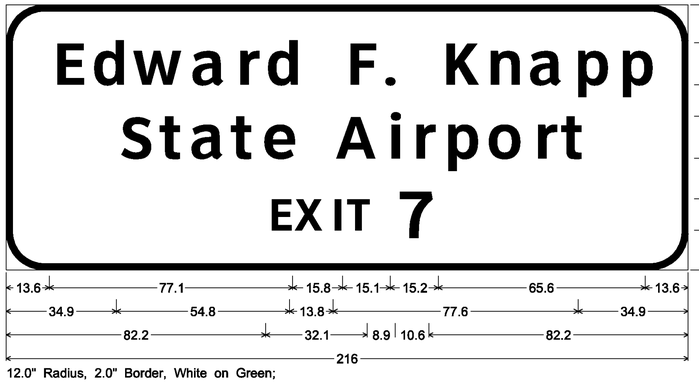


4.5" Radius, 1.3" Border, White on Green;
[Barre] ClearviewHwy-5-W;
[Montpelier] ClearviewHwy-5-W;
[7] ClearviewHwy-5-W; [7] ClearviewHwy-5-W;

MM 48.953 NB
MM 51.615 SB

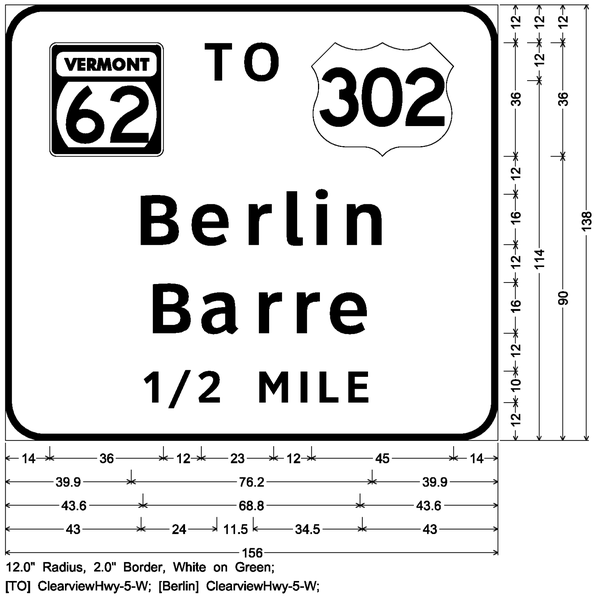
12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; [Berlin] ClearviewHwy-5-W;
[Barre] ClearviewHwy-5-W; [1 MILE] ClearviewHwy-5-W;

MM 49.325 NB
MM 51.380 SB



12.0" Radius, 2.0" Border, White on Green;
[Edward F. Knapp] ClearviewHwy-5-W; [State Airport] ClearviewHwy-5-W; [EXIT 7] ClearviewHwy-5-W;

MM 49.505 NB
MM 51.230 SB



12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; [Berlin] ClearviewHwy-5-W;
[Barre] ClearviewHwy-5-W; [1/2 MILE] ClearviewHwy-5-W;

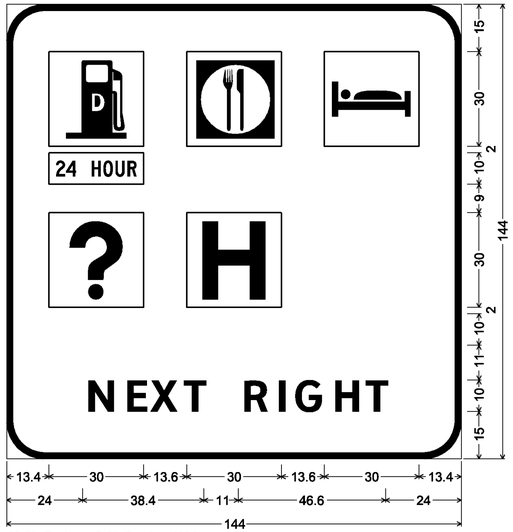
SIGN DETAIL SHEET 5

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 136 OF 163

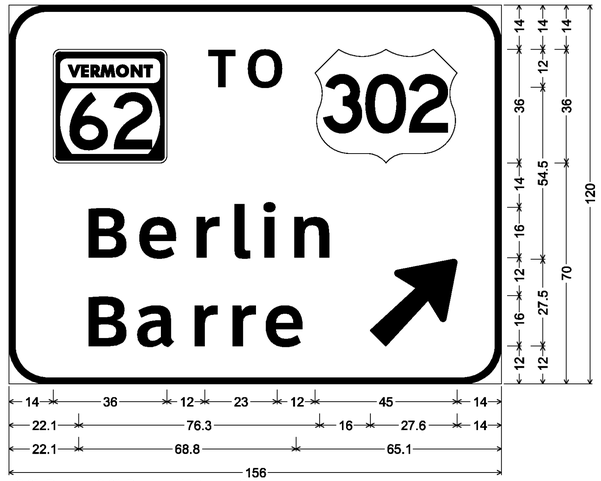
MODEL: 05

MM 49.735 NB
MM 51.080 SB



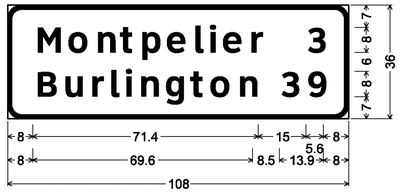
12.0" Radius, 2.0" Border, White on Blue;
[NEXT RIGHT] ClearviewHwy-5-W;

MM 49.910 NB



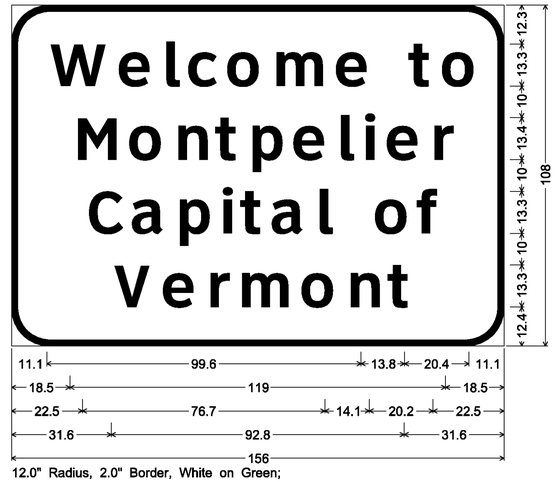
12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; [Berlin] ClearviewHwy-5-W;
[Barre] ClearviewHwy-5-W; Arrow 160 - 35.0" 45°;

MM 51.075 NB



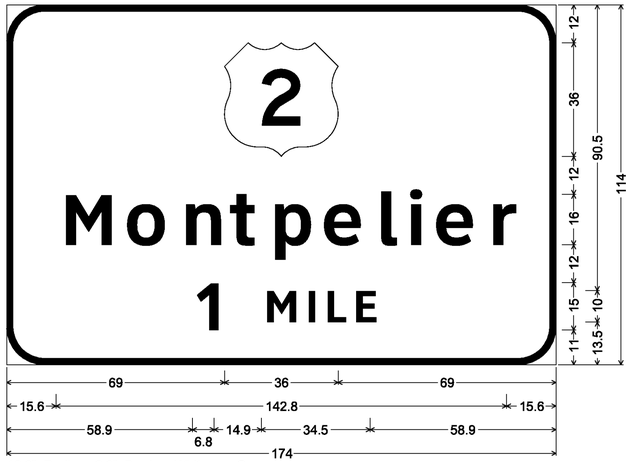
4.5" Radius, 1.3" Border, White on Green;
[Montpelier] ClearviewHwy-5-W;
[Burlington] ClearviewHwy-5-W;
[3] ClearviewHwy-5-W; [39] ClearviewHwy-5-W;

MM 51.540 NB
MM 54.304 SB



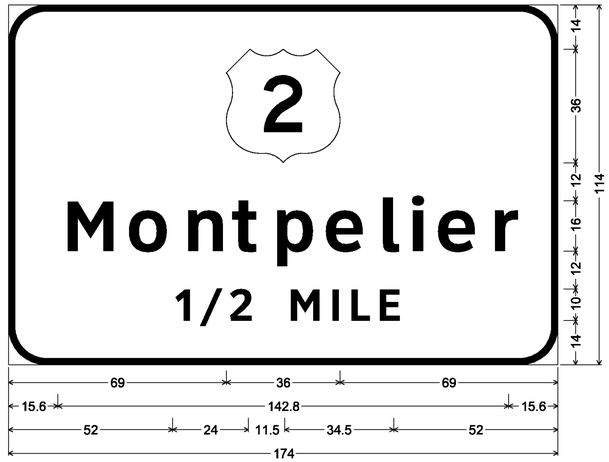
12.0" Radius, 2.0" Border, White on Green;
[Welcome to] ClearviewHwy-5-W; [Montpelier] ClearviewHwy-5-W;
[Capital of] ClearviewHwy-5-W; [Vermont] ClearviewHwy-5-W;

MM 51.720 NB



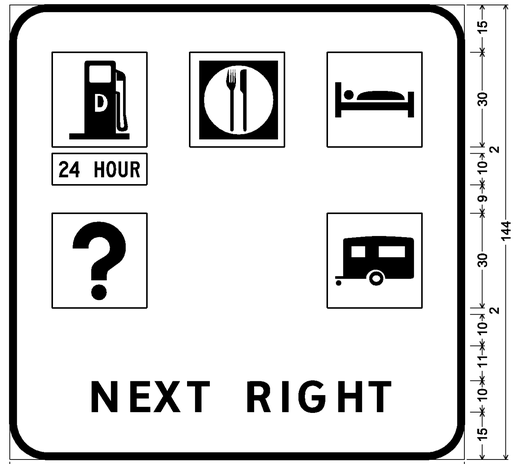
12.0" Radius, 2.0" Border, White on Green;
[Montpelier] ClearviewHwy-5-W; [1 MILE] ClearviewHwy-5-W;

MM 52.235 NB



12.0" Radius, 2.0" Border, White on Green;
[Montpelier] ClearviewHwy-5-W; [1/2 MILE] ClearviewHwy-5-W;

MM 52.440 NB
MM 53.550 SB



12.0" Radius, 2.0" Border, White on Blue;
[NEXT RIGHT] ClearviewHwy-5-W;

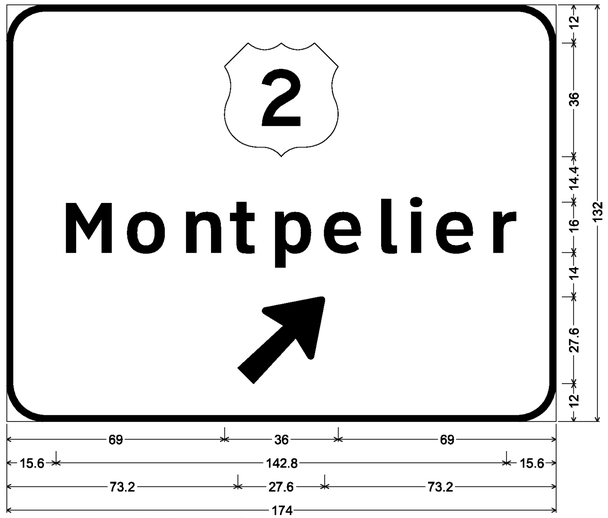
SIGN DETAIL SHEET 6

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 137 OF 163

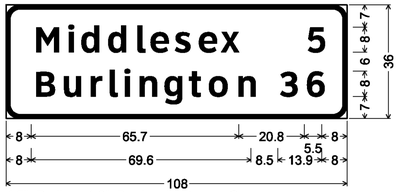
MODEL: 06

MM 52.595 NB



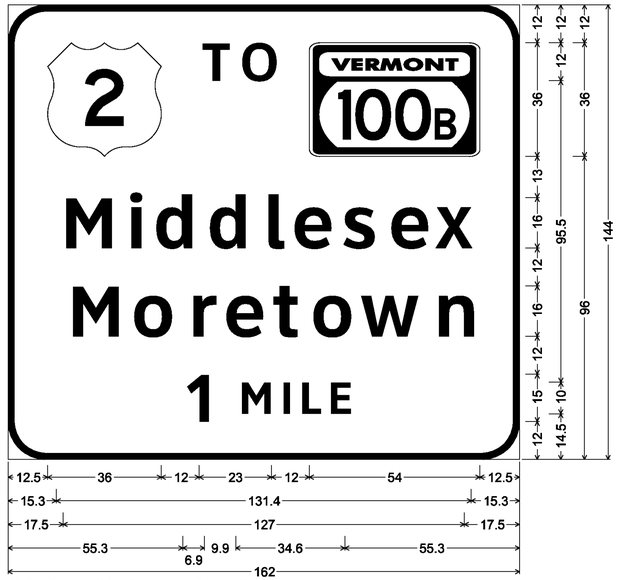
12.0" Radius, 2.0" Border, White on Green;
[Montpelier] ClearviewHwy-5-W; Arrow 160 - 35.0" 45°;

MM 53.880 NB



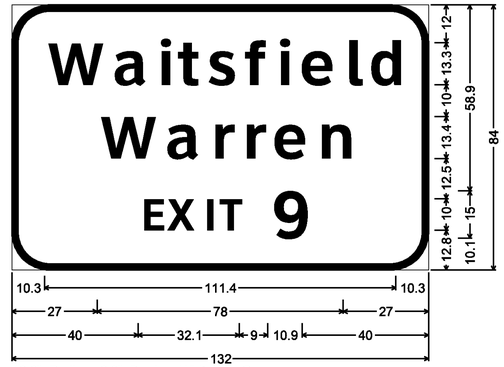
4.5" Radius, 1.3" Border, White on Green;
[Middlesex] ClearviewHwy-5-W;
[Burlington] ClearviewHwy-5-W;
[5] ClearviewHwy-5-W; [36] ClearviewHwy-5-W;

MM 57.330 NB
MM 59.870 SB



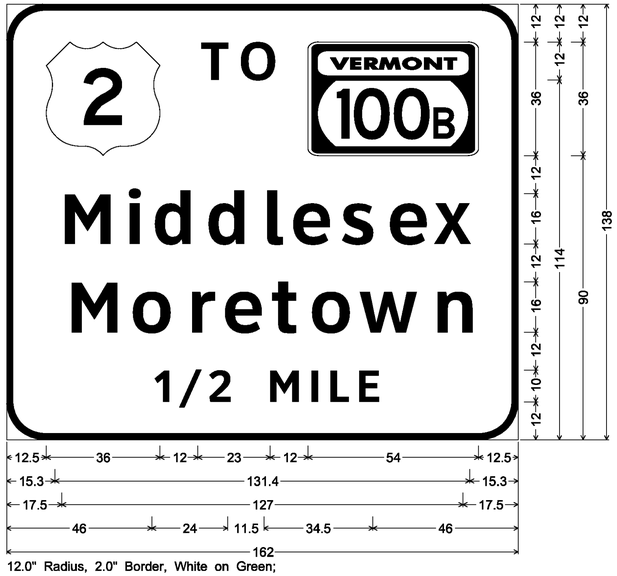
12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; VT100B; [Middlesex] ClearviewHwy-5-W;
[Moretown] ClearviewHwy-5-W; [1 MILE] ClearviewHwy-5-W;

MM 57.800 NB



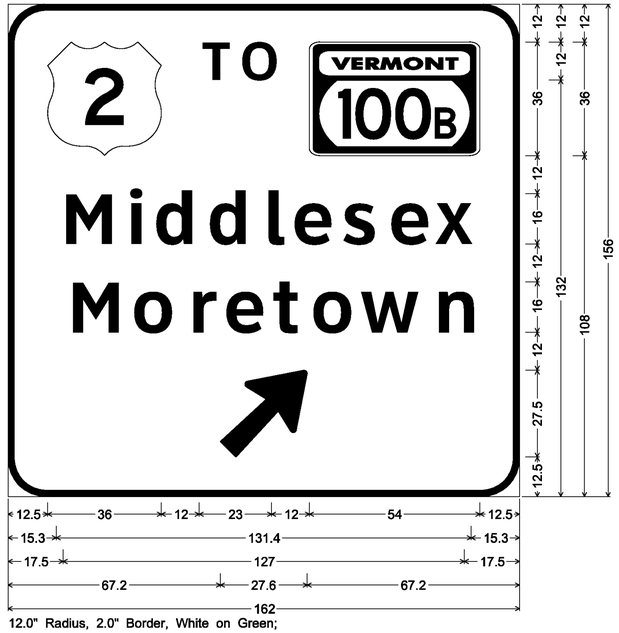
12.0" Radius, 2.0" Border, White on Green;
[Waitsfield] ClearviewHwy-5-W; [Warren] ClearviewHwy-5-W;
[EXIT 9] ClearviewHwy-5-W;

MM 57.955 NB
MM 59.300 SB



12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; VT100B; [Middlesex] ClearviewHwy-5-W;
[Moretown] ClearviewHwy-5-W; [1/2 MILE] ClearviewHwy-5-W;

MM 58.455 NB
MM 59.000 SB



12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; VT100B; [Middlesex] ClearviewHwy-5-W;
[Moretown] ClearviewHwy-5-W; Arrow 160 - 35.0" 45°;

MM 59.550 NB

4.5" Radius, 1.3" Border, White on Green;
[Waterbury] ClearviewHwy-5-W;
[Burlington] ClearviewHwy-5-W;
[5] ClearviewHwy-5-W; [31] ClearviewHwy-5-W;

MM 58.130 NB

7.0" Radius, 1.3" Border, White on Blue;
[CAR POOL] ClearviewHwy-4-W;
[INFO] ClearviewHwy-4-W;
[1-800-685-RIDE] ClearviewHwy-2-W specified length;

SIGN DETAIL SHEET 7

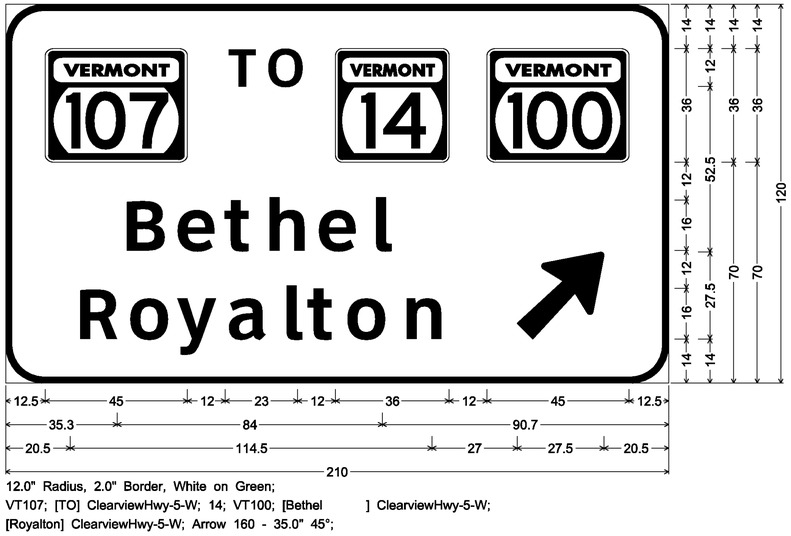
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 138 OF 163

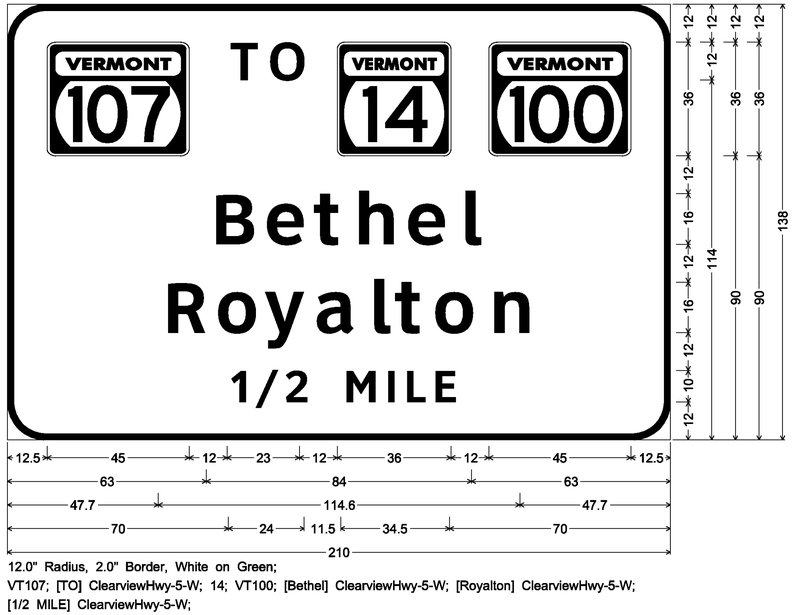
MODEL: 07

MM 22.640 SB



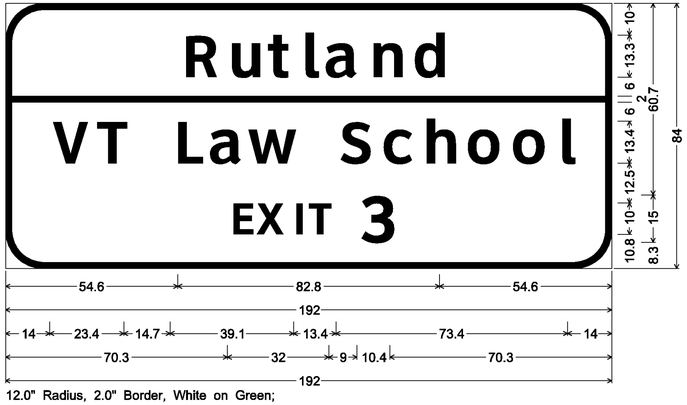
12.0" Radius, 2.0" Border, White on Green;
VT107; [TO] ClearviewHwy-5-W; 14; VT100; [Bethel] ClearviewHwy-5-W;
[Royalton] ClearviewHwy-5-W; Arrow 160 - 35.0" 45°;

MM 22.949 SB



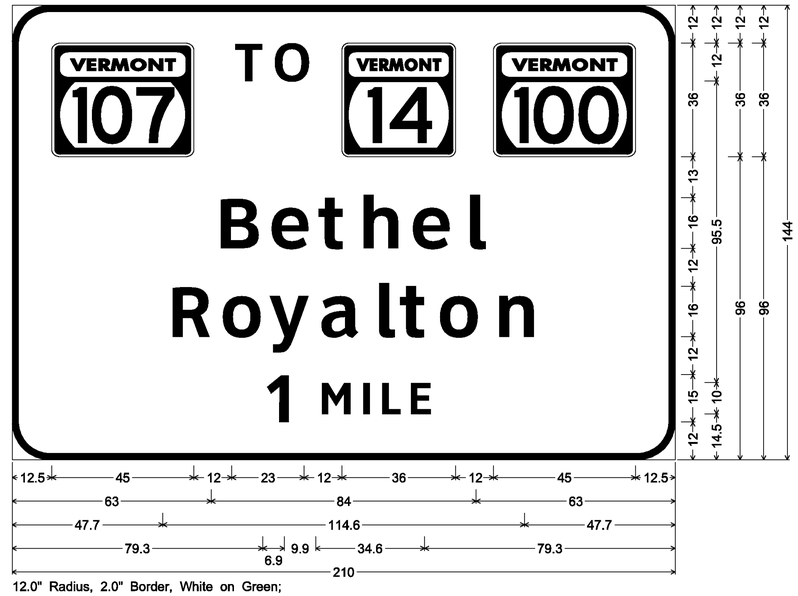
12.0" Radius, 2.0" Border, White on Green;
VT107; [TO] ClearviewHwy-5-W; 14; VT100; [Bethel] ClearviewHwy-5-W; [Royalton] ClearviewHwy-5-W;
[1/2 MILE] ClearviewHwy-5-W;

MM 23.100 SB



12.0" Radius, 2.0" Border, White on Green;
[Rutland] ClearviewHwy-5-W; [VT Law School] ClearviewHwy-5-W;
[EXIT 3] ClearviewHwy-5-W;

MM 23.300 SB



12.0" Radius, 2.0" Border, White on Green;
VT107; [TO] ClearviewHwy-5-W; 14; VT100; [Bethel] ClearviewHwy-5-W; [Royalton] ClearviewHwy-5-W;
[1 MILE] ClearviewHwy-5-W;

SIGN DETAIL
SHEET 8

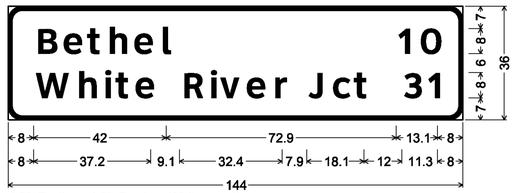
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 139 OF 163

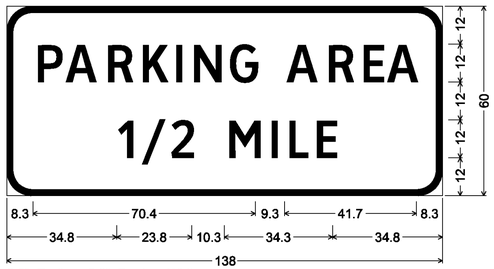
MODEL: 08

MM 29.900 SB



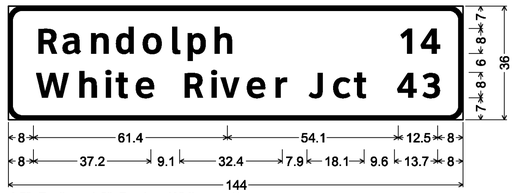
4.5" Radius, 1.3" Border, White on Green;
[Bethel] ClearviewHwy-5-W; [White River Jct] ClearviewHwy-5-W;
[10] ClearviewHwy-5-W; [31] ClearviewHwy-5-W;

MM 30.200 SB



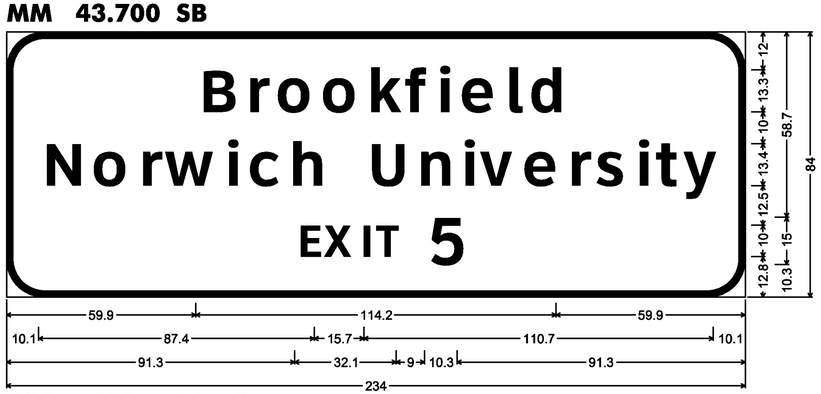
8.0" Radius, 2.0" Border, White on Blue;
[PARKING AREA] ClearviewHwy-3-W;
[1/2 MILE] ClearviewHwy-3-W;

MM 41.840 SB



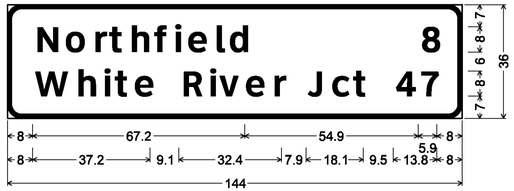
4.5" Radius, 1.3" Border, White on Green;
[Randolph] ClearviewHwy-5-W; [White River Jct] ClearviewHwy-5-W;
[14] ClearviewHwy-5-W; [43] ClearviewHwy-5-W;

MM 43.700 SB



12.0" Radius, 2.0" Border, White on Green;
[Brookfield] ClearviewHwy-5-W; [Norwich University] ClearviewHwy-5-W; [EXIT 5] ClearviewHwy-5-W;

MM 45.945 SB



4.5" Radius, 1.3" Border, White on Green;
[Northfield] ClearviewHwy-5-W; [White River Jct] ClearviewHwy-5-W;
[8] ClearviewHwy-5-W; [47] ClearviewHwy-5-W;

SIGN DETAIL SHEET 9

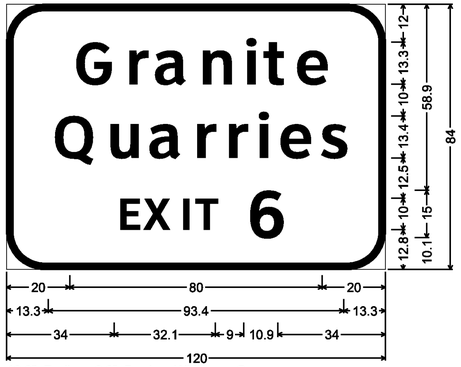
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 140 OF 163

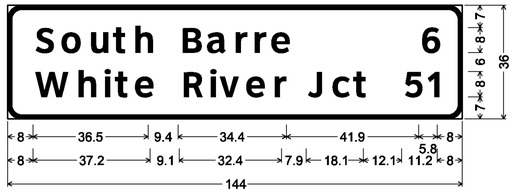
MODEL: 09

MM 47.660 SB



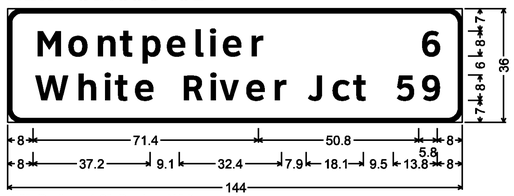
12.0" Radius, 2.0" Border, White on Green;
[Granite] ClearviewHwy-5-W;
[Quarries] ClearviewHwy-5-W;
[EXIT 6] ClearviewHwy-5-W;

MM 49.470 SB



4.5" Radius, 1.3" Border, White on Green;
[South Barre] ClearviewHwy-5-W;
[White River Jct] ClearviewHwy-5-W; [6] ClearviewHwy-5-W;
[51] ClearviewHwy-5-W;

MM 57.850 SB

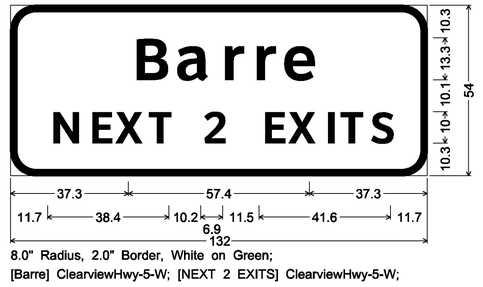


4.5" Radius, 1.3" Border, White on Green;
[Montpelier] ClearviewHwy-5-W; [White River Jct] ClearviewHwy-5-W;
[6] ClearviewHwy-5-W; [59] ClearviewHwy-5-W;

MM 50.930 SB

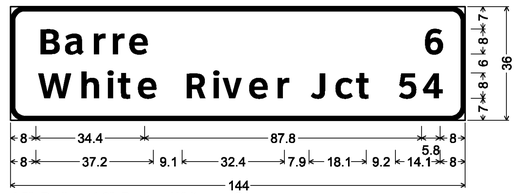
12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; [Berlin] ClearviewHwy-5-W;
[Barre] ClearviewHwy-5-W; [NEXT RIGHT] ClearviewHwy-5-W;

MM 52.220 SB



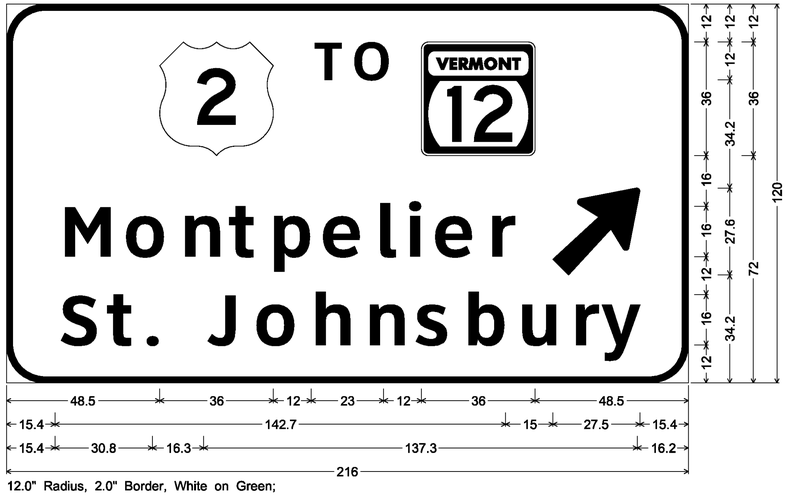
8.0" Radius, 2.0" Border, White on Green;
[Barre] ClearviewHwy-5-W; [NEXT 2 EXITS] ClearviewHwy-5-W;

MM 52.355 SB



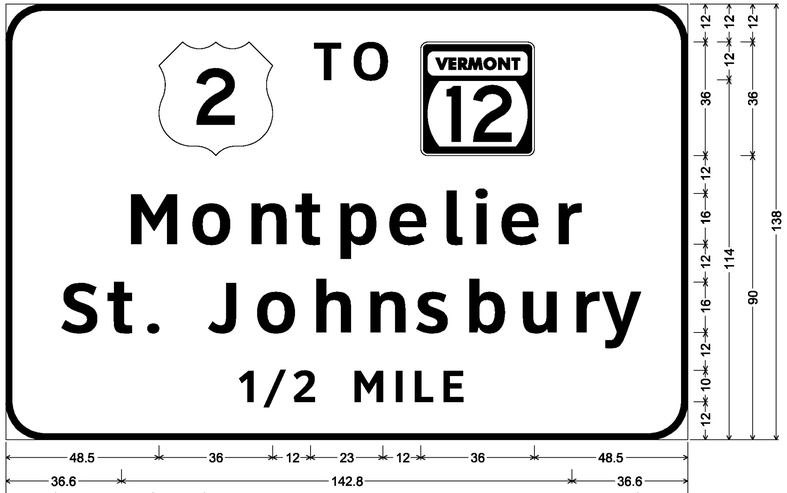
4.5" Radius, 1.3" Border, White on Green;
[Barre] ClearviewHwy-5-W; [White River Jct] ClearviewHwy-5-W;
[6] ClearviewHwy-5-W; [54] ClearviewHwy-5-W;

MM 53.350 SB



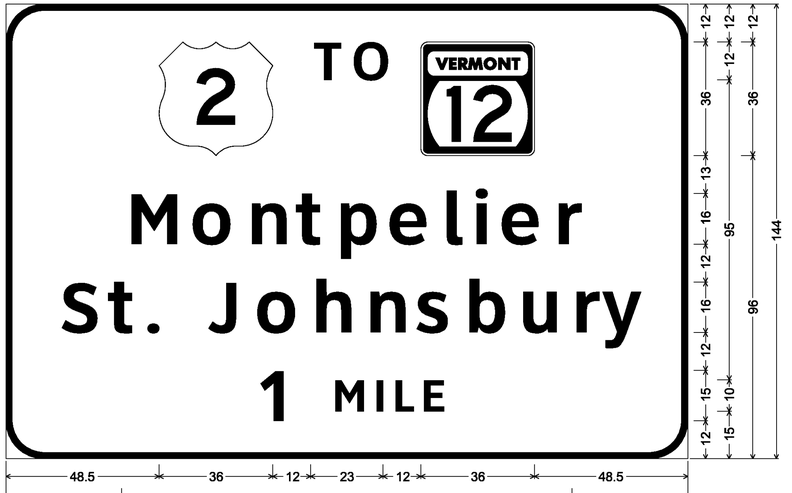
12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; 14; [Montpelier] ClearviewHwy-5-W; Arrow 160 - 35.0° 45°;
[St. Johnsbury] ClearviewHwy-5-W;

MM 53.850 SB



12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; 14; [Montpelier] ClearviewHwy-5-W; [St. Johnsbury] ClearviewHwy-5-W;
[1/2 MILE] ClearviewHwy-5-W;

MM 54.150 SB



12.0" Radius, 2.0" Border, White on Green;
[TO] ClearviewHwy-5-W; 14; [Montpelier] ClearviewHwy-5-W; [St. Johnsbury] ClearviewHwy-5-W;
[1 MILE] ClearviewHwy-5-W;

SIGN DETAIL SHEET 10

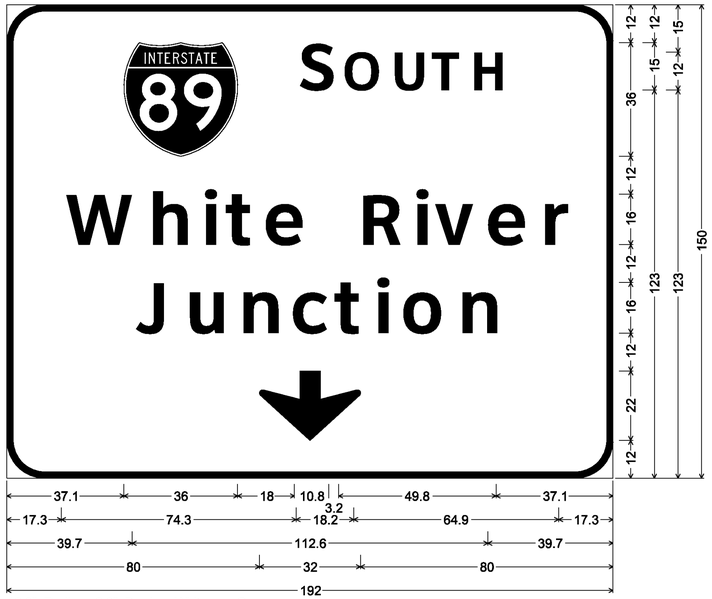
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 141 OF 163

MODEL: 10

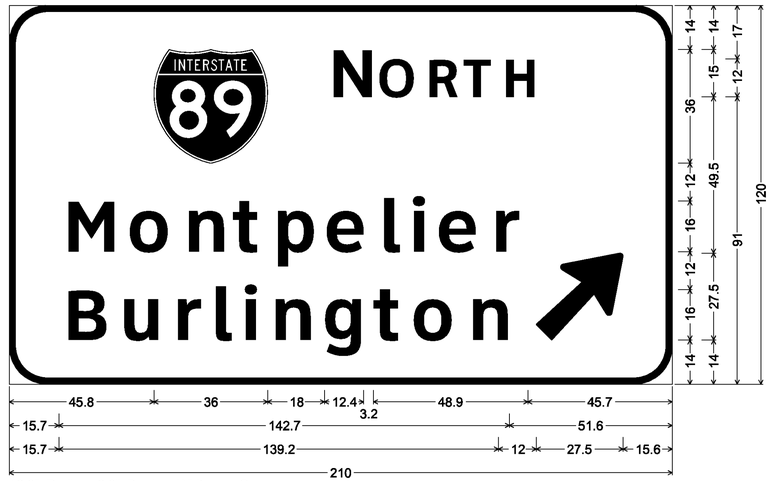
INT. 6 VT 63
0.138 LT OVERHEAD
INT. 7 VT 62
0.115 LT OVERHEAD



12.0" Radius, 2.0" Border, White on Green;
[S OUTH] ClearviewHwy-5-W; [White River] ClearviewHwy-5-W; [Junction] ClearviewHwy-5-W;
Down Arrow 22.0" 270°;

WHITE ASTM TYPE IX RETROREFLECTIVE LEGEND AND BORDER
ON GREEN ASTM TYPE IX RETROREFLECTIVE BACKGROUND

INT. 6 VT 63
0.138 LT OVERHEAD
INT. 7 VT 62
0.115 LT OVERHEAD



12.0" Radius, 2.0" Border, White on Green;
[N ORTH] ClearviewHwy-5-W; [Montpelier] ClearviewHwy-5-W; [Burlington] ClearviewHwy-5-W;
Arrow 160 - 35.0" 45°;

WHITE ASTM TYPE IX RETROREFLECTIVE LEGEND AND BORDER
ON GREEN ASTM TYPE IX RETROREFLECTIVE BACKGROUND

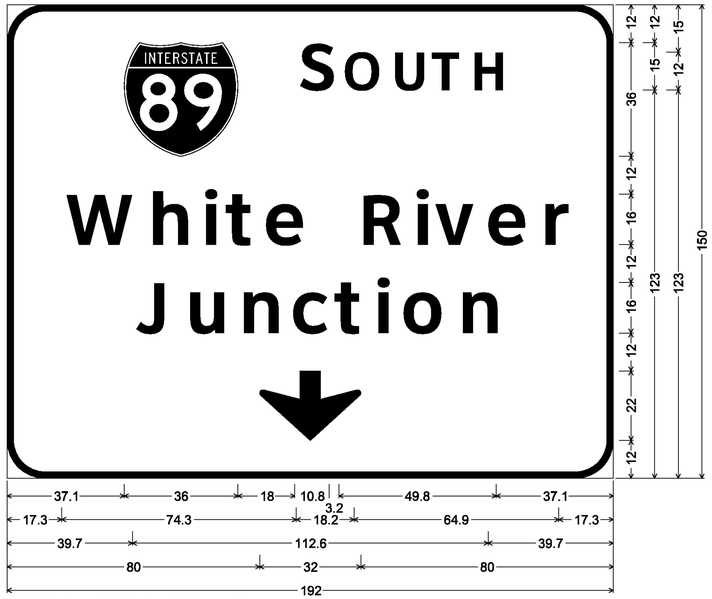
SIGN DETAIL
SHEET 11

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 142 OF 163

MODEL: II

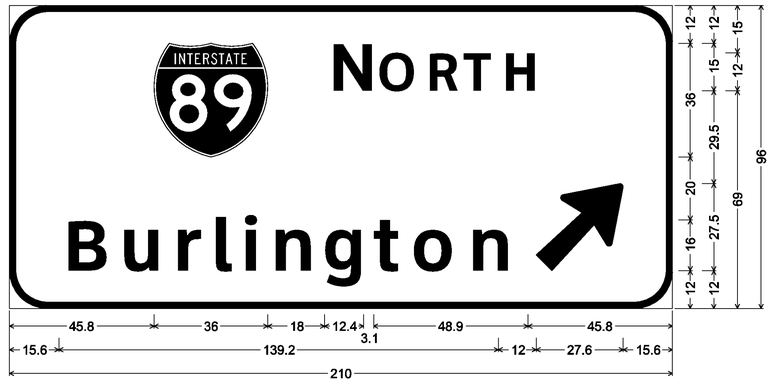
INT. 8 MSH
0.102 LT OVERHEAD



12.0" Radius, 2.0" Border, White on Green;
[S OUTH] ClearviewHwy-5-W; [White River] ClearviewHwy-5-W; [Junction] ClearviewHwy-5-W;
Down Arrow 22.0" 270°;

WHITE ASTM TYPE IX RETROREFLECTIVE LEGEND AND BORDER
ON GREEN ASTM TYPE IX RETROREFLECTIVE BACKGROUND

INT. 8 MSH
0.102 LT OVERHEAD



12.0" Radius, 2.0" Border, White on Green;
[N ORTH] ClearviewHwy-5-W; [Burlington] ClearviewHwy-5-W; Arrow 160 - 35.0" 45°;

WHITE ASTM TYPE IX RETROREFLECTIVE LEGEND AND BORDER
ON GREEN ASTM TYPE IX RETROREFLECTIVE BACKGROUND

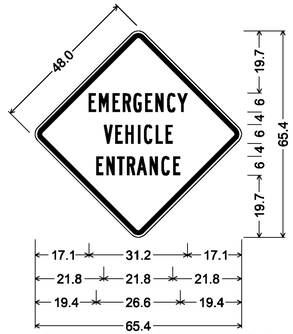
SIGN DETAIL
SHEET 12

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

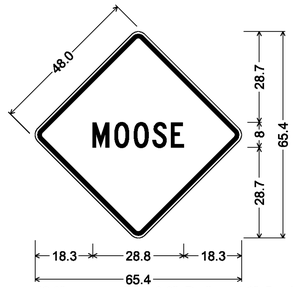
FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 143 OF 163

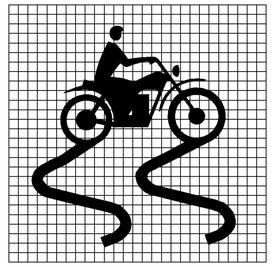
MODEL: 12

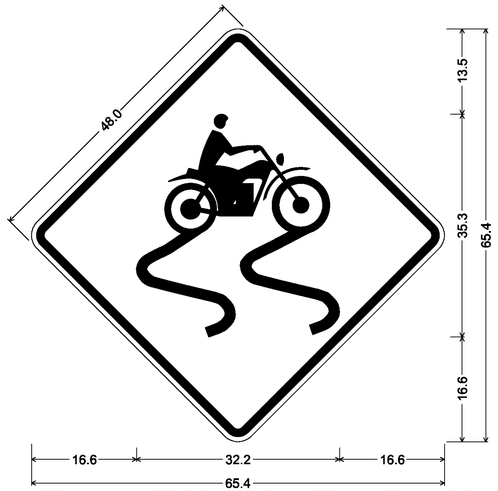


48.0" across sides 3.0" Radius, 1.3" Border, 0.8" Indent, Black on Yellow;
[EMERGENCY] B 2K;
[VEHICLE] B 2K;
[ENTRANCE] B 2K;

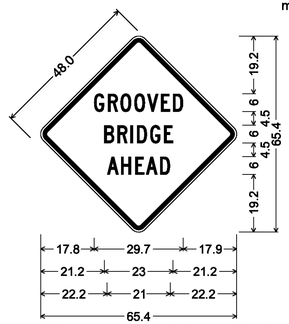


48.0" across sides 3.0" Radius, 1.2" Border, 0.8" Indent, Black on Yellow;
[MOOSE] C 2K;

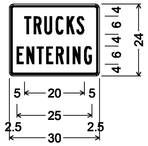




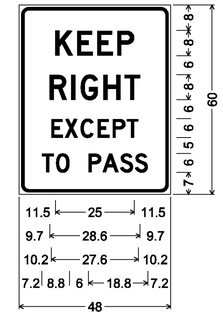
48.0" across sides 3.0" Radius, 1.2" Border, 0.8" Indent, Black on Yellow;
motorcycle;



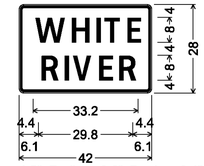
48.0" across sides 3.0" Radius, 1.3" Border, 0.8" Indent, Black on Yellow;
[GROOVED] C 2K;
[BRIDGE] C 2K;
[AHEAD] C 2K;



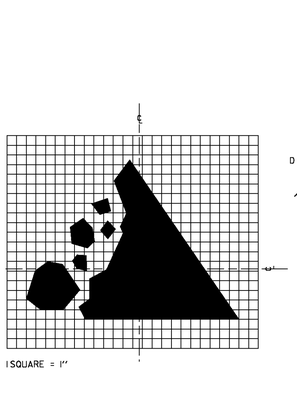
1.4" Radius, 0.6" Border, 0.4" Indent, Black on Yellow;
[TRUCKS] B 2K;
[ENTERING] B 2K;



3.0" Radius, 0.9" Border, 0.8" Indent, Black on White;
[KEEP] D 2K;
[RIGHT] D 2K;
[EXCEPT] D 2K;
[TO PASS] D 2K;

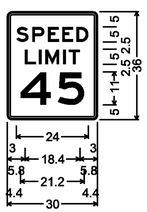


1.5" Radius, 0.6" Border, 0.4" Indent, White on Green;
[WHITE] ClearviewHwy-3-W;
[RIVER] ClearviewHwy-3-W;



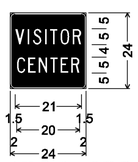
SIGN	DIMENSIONS (INCHES)						
	A	B	C	D	E	F	G
STD.	30	1/2	3/4	1/2	11/4	5 1/4	10 3/8
SPECIAL	48	3/4	1 1/4	3	18	8 3/8	16 1/2

VW-285
COLORS
TEXT AND BORDER - BLACK (NON-REFL.)
BACKGROUND - YELLOW (REFL.)

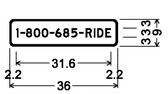


R2-1 STD;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on White;
[SPEED] E;
[LIMIT] E;
[45] E;

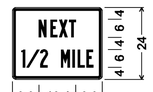
1.4" Radius, 0.6" Border, 0.4" Indent, Black on Yellow;
[NEXT] B 2K;
[10 MILES] B 2K specified length;



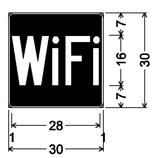
1.5" Radius, 0.5" Border, White on Blue;
[VISITOR] C;
[CENTER] C;



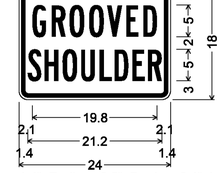
1.5" Radius, 0.6" Border, White on Green;
[1-800-685-RIDE] D;



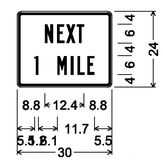
1.4" Radius, 0.6" Border, 0.4" Indent, Black on Yellow;
[NEXT] B 2K;
[1/2 MILE] B 2K specified length;



1.5" Radius, 0.5" Border, White on Blue;
[WiFi] C specified length;



1.4" Radius, 0.6" Border, 0.4" Indent, Black on Yellow;
[GROOVED] B 2K;
[SHOULDER] B 2K 70% spacing;



1.4" Radius, 0.6" Border, 0.4" Indent, Black on Yellow;
[NEXT] B 2K;
[1 MILE] B 2K;

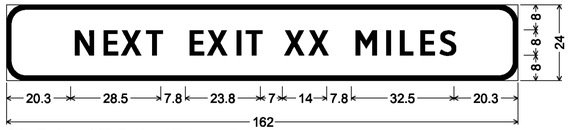
SIGN DETAIL SHEET 13

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

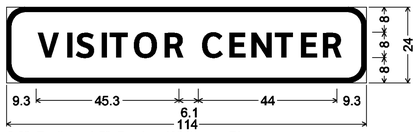
FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 144 OF 163

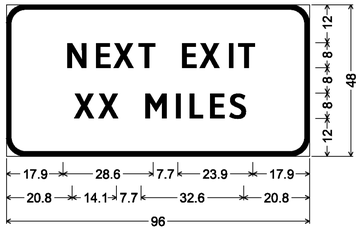
MODEL: 13



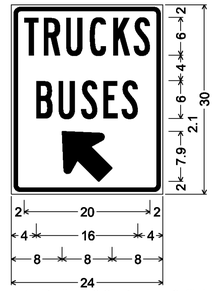
6.0" Radius, 1.5" Border, White on Green;
[NEXT EXIT XX MILES] ClearviewHwy-4-W;



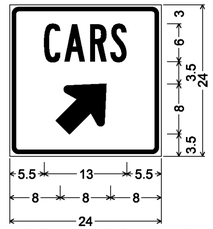
6.0" Radius, 1.5" Border, White on Blue;
[VISITOR CENTER] ClearviewHwy-5-W 70% spacing;



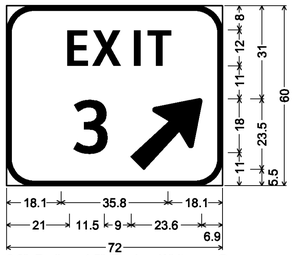
6.0" Radius, 1.5" Border, White on Green;
[NEXT EXIT] ClearviewHwy-4-W;
[XX MILES] ClearviewHwy-4-W;



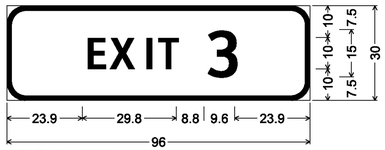
1.4" Radius, 0.6" Border, 0.4" Indent, White on Blue;
[TRUCKS] B 2K;
[BUSES] B 2K;
Standard Arrow Custom 9.7" X 8.6" 135°;



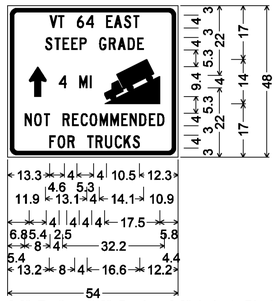
1.4" Radius, 0.6" Border, 0.4" Indent, White on Blue;
[CARS] B 2K;
Standard Arrow Custom 9.7" X 8.6" 135°;



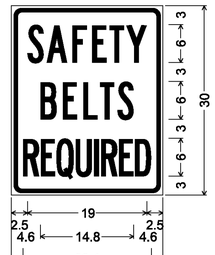
9.0" Radius, 1.5" Border, White on Green;
[EXIT] ClearviewHwy-4-W;
[3] ClearviewHwy-4-W;
Arrow 133 - 30.0" 45°;



1.5" Border, White on Green;
[EXIT 3] ClearviewHwy-4W;



3.0" Radius, 1.3" Border, 0.8" Indent, Black on Yellow;
[VT 64 EAST] C;
[STEEP GRADE] C;
Standard Arrow Custom 9.4" X 5.4" 90°;
[4 MI] C;
[NOT RECOMMENDED] C;
[FOR TRUCKS] C;

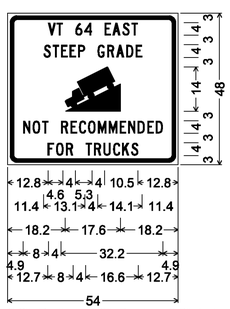


1.6" Radius, 0.6" Border, 0.4" Indent, Black on White;
[SAFETY] B 2K;
[BELTS] B 2K;
[REQUIRED] B 2K 26% spacing;

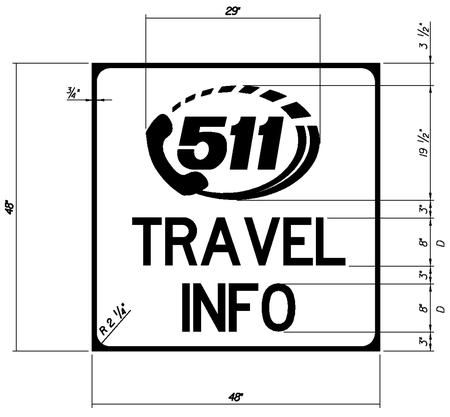
6.0" Radius, 1.0" Border, White on Blue;
Standard Arrow Custom 13.4" X 8.1" 135°;
[FACILITIES] ClearviewHwy-3-W;
[PICNIC AREA] ClearviewHwy-3-W;
Standard Arrow Custom 13.4" X 8.1" 45°;

10.0" Radius, 2.0" Border, White on Blue;
[PARKING] ClearviewHwy-3-W 75% spacing;
[AREA] ClearviewHwy-3-W;
Arrow 133 - 30.0" 45°;

10.0" Radius, 2.0" Border, 1.0" Indent, White on Blue;
[REST] ClearviewHwy-3-W;
[AREA] ClearviewHwy-3-W;
Arrow 133 - 30.0" 45°;



3.0" Radius, 1.3" Border, 0.8" Indent, Black on Yellow;
[VT 64 EAST] C;
[STEEP GRADE] C;
[NOT RECOMMENDED] C;
[FOR TRUCKS] C;



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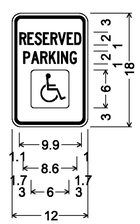
LEGEND: WHITE (RETROREFLECTIVE)

BACKGROUND: BLUE (RETROREFLECTIVE)



1.4" Radius, 0.4" Border, 0.4" Indent, Green on White;
[RESERVED] C 2K 51% spacing;
[PARKING] C 2K 66% spacing;
Rounded Rectangle 0.5" Radius Blue;

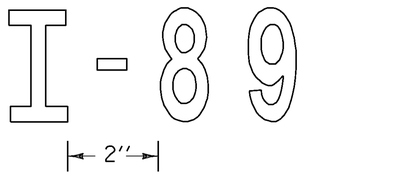
SIGN DETAIL
SHEET 14

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

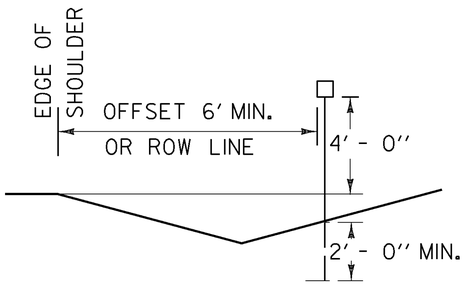
FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

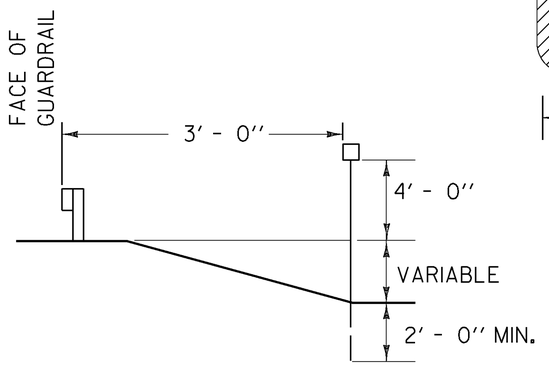
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 145 OF 163

MODEL: 14

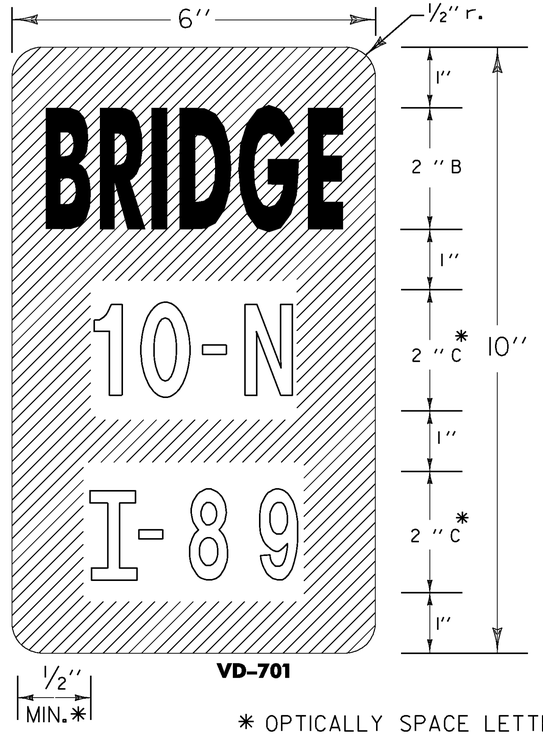


HYPHEN DETAIL





FOR EXAMPLE, ROUTE NUMBERS SHALL APPEAR AS: I-91, US5, VT22



VD-701

* OPTICALLY SPACE LETTERS AND NUMERALS AS NEEDED. SERIES B LETTERS MAY BE USED TO MAINTAIN VISUAL INTEGRITY.

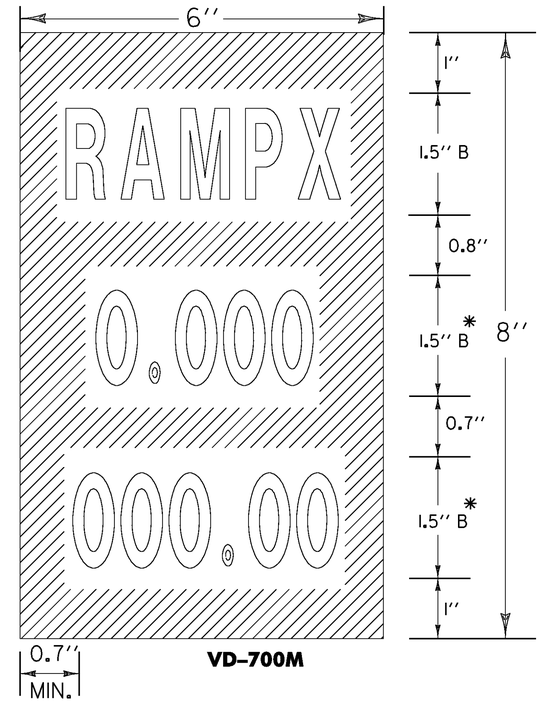
THE FOLLOWING BRIDGES REQUIRE BRIDGE PLAQUES.

MILE MARKER	ROUTE	PLAQUE	CROSSING FEATURE
NORTHBOUND			
21.886	I-89-N	24-1	BROOK
21.914	I-89-N	25	BROOK
22.050	I-89-N	26N	I 89 OVER WR&NECR&107
22.287	I-89-N	26-1	BROOK
22.393	I-89-N	26-2	BROOK
30.898	I-89-N	29	I 89 UNDER VT 66
31.088	I-89-N	29-1	BROOK
31.559	I-89-N	29-3	BROOK
33.182	I-89-N	30N	I 89 UNDER TH NO 26
36.545	I-89-N	32N	I 89 OVER TH NO 6
37.775	I-89-N	32-2	BROOK
38.844	I-89-N	34N	I 89 OVER TH NO 1
40.441	I-89-N	34-2S	BROOK
42.952	I-89-N	35N	I 89 OVER VT 64
43.097	I-89-N	35-1	BROOK
46.920	I-89-N	36N	I 89 OVER VT 63
49.814	I-89-N	36-3	BERLIN POND OUTLET
49.821	I-89-N	36-4	WATER MAIN SLEEVE
50.000	I-89-N	37N	I 89 OVER TH NO 40
50.290	I-89-N	38N	I 89 OVER VT 62
52.528	I-89-N	40N	I 89 OVER VT 12
52.945	I-89-N	41N	I 89 OVER MONT. S.H.
53.436	I-89-N	42N	I 89 OVER US2 WR WCRR
53.996	I-89-N	42-1	BROOK
54.809	I-89-N	43N	I 89 OVER US 2
54.955	I-89-N	43-1	BROOK
56.147	I-89-N	43-2	BROOK
56.212	I-89-N	44	I 89 UNDER US 2
57.166	I-89-N	44-2	BROOK
57.866	I-89-N	44-4	GREAT BROOK
58.710	I-89-N	45N	I 89 OVER MDLSX S.H.
59.086	I-89-N	45-1	BROOK
59.417	I-89-N	45-2	BROOK
MILE MARKER	**ROUTE**	**PLAQUE**	**CROSSING FEATURE**
SOUTHBOUND			
21.892	I-89-S	24-1	BROOK
21.938	I-89-S	25	BROOK
22.050	I-89-S	26S	I 89 OVER WR&NECR&107
22.930	I-89-S	27	I 89 OVER TH NO 32
24.348	I-89-S	28	I 89 UNDER TH NO 6
33.182	I-89-S	30S	I 89 UNDER TH NO 26
36.545	I-89-S	31S	I 89 UNDER TH NO 6
37.845	I-89-S	33	I 89 UNDER VT 65
38.844	I-89-S	34S	I 89 OVER TH NO 1
42.952	I-89-S	35S	I 89 OVER VT 64
46.920	I-89-S	36S	I 89 OVER VT 63
50.000	I-89-S	37S	I 89 OVER TH NO 40
50.290	I-89-S	38S	I 89 OVER VT 62
50.782	I-89-S	39	I 89 UNDER TH NO 18
52.528	I-89-S	40S	I 89 OVER VT 12

THE FOLLOWING RAMPS REQUIRE MILE MARKER PLAQUES.

I-89 Ramp Milemarker Information			
EXIT	**RAMP**	**Mainline MM**	**RAMP Length**
3	A	22.437	0.395
	B	22.150	0.341
	C	22.245	0.241
	D	22.399	0.289
4	A	30.657	0.223
	B	30.619	0.317
	C	31.112	0.246
	D	31.213	0.315
5	A	42.837	0.203
	B	43.082	0.186
	C	42.494	0.473
	D	43.130	0.192
6	A	46.804	0.205
	B	47.174	0.301
	C	46.627	0.387
	D	46.811	0.325
7	A	50.063	0.246
	B	50.446	0.278
	C	50.656	0.450
	D	50.637	0.282
8	A	52.789	0.231
	B	53.088	0.140
	C	52.951	0.380
	D	53.221	0.434
9	A	58.542	0.134
	B	58.571	0.140
	C	58.845	0.158
	D	58.940	0.159

FOR EXAMPLE, RAMP IDENTIFICATION SHALL APPEAR AS: RAMPA, RAMPB



VD-700M

NOTES:

GENERAL:
OUTLINED LETTERS AND NUMERALS INDICATE TEXT THAT VARIES.

MATERIAL:
THE SIGN BASE MATERIAL SHALL BE 0.040 INCH FLAT SHEET ALUMINUM.

COLORS:
THE SIGN SHALL HAVE A RETROREFLECTORIZED WHITE TEXT ON RETROREFLECTORIZED GREEN BACKROUND. THE COLORS SHALL CONFORM WITH THOSE FOUND IN STANDARD COLOR TOLERANCE CHARTS AS APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

RETROREFLECTVITY WILL BE EQUAL TO OR EXCEEDING ASTM TYPE III.

LETTERING:
LETTERS AND DIGITS SHALL CONFORM WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS AS PRINTED BY THE FEDERAL HIGHWAY ADMINISTRATION.

POSTS:
1 3/4 INCH SQUARE STEEL POST WITH 2 INCH ANCHOR SHALL BE USED.
POST SHALL BE A MINIUM OF 8 FEET.

NOT TO SCALE

SIGN DETAIL SHEET 15

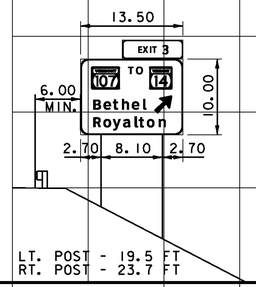
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020signdet.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 146 OF 163

MODEL: 15

M.M. 22.135 NB

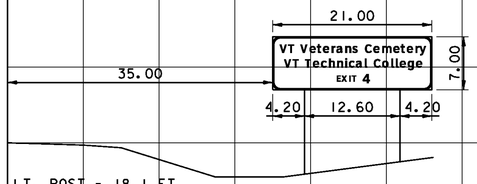
STEEL BEAM GUARDRAIL



LT. POST - 19.5 FT
RT. POST - 23.7 FT

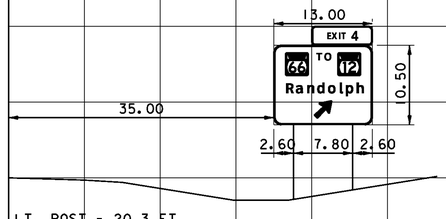
SEE FOOTING DETAIL ON SHEET 3

M.M. 29.930 NB



LT. POST - 18.1 FT
MID POST -
MID POST -
RT. POST - 16.5 FT

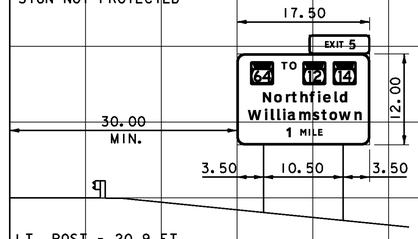
M.M. 30.500 NB



LT. POST - 20.3 FT
MID POST -
MID POST -
RT. POST - 19.1 FT

M.M. 41.840 NB

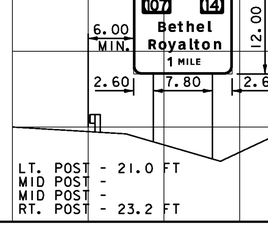
STEEL BEAM GUARDRAIL
SIGN NOT PROTECTED



LT. POST - 20.9 FT
MID POST -
MID POST -
RT. POST - 22.0 FT

M.M. 21.920 NB

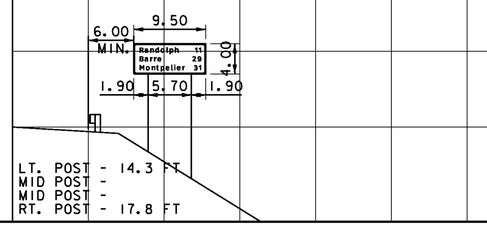
STEEL BEAM GUARDRAIL



LT. POST - 22.4 FT
MID POST -
MID POST -
RT. POST - 26.6 FT

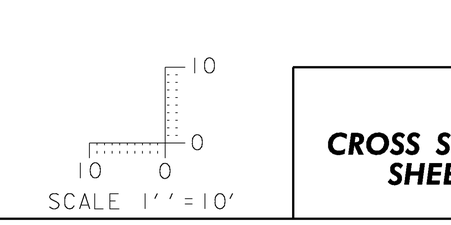
SEE FOOTING DETAIL ON SHEET 3

M.M. 29.680 NB



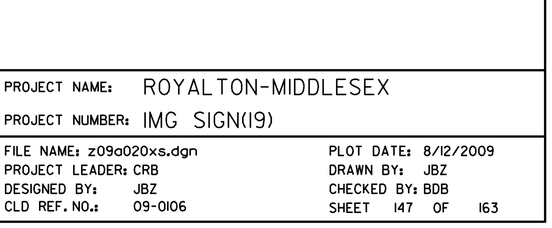
LT. POST - 21.8 FT
MID POST -
MID POST -
RT. POST - 21.7 FT

M.M. 30.335 NB



LT. POST - 21.7 FT
MID POST -
MID POST -
RT. POST - 21.1 FT

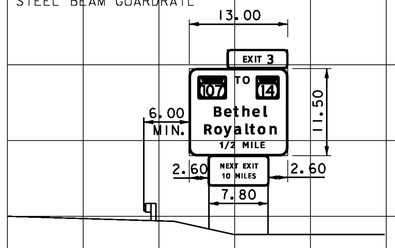
M.M. 33.426 NB



LT. POST - 16.3 FT
MID POST -
MID POST -
RT. POST - 15.6 FT

M.M. 21.650 NB

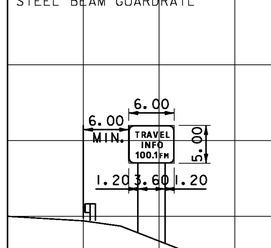
STEEL BEAM GUARDRAIL



LT. POST - 21.2 FT
MID POST -
MID POST -
RT. POST - 21.9 FT

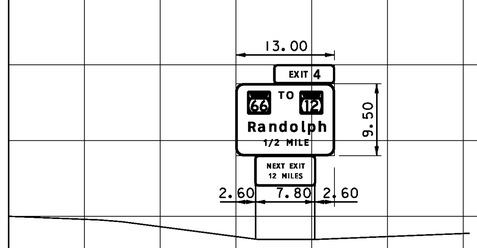
M.M. 27.040 NB

STEEL BEAM GUARDRAIL



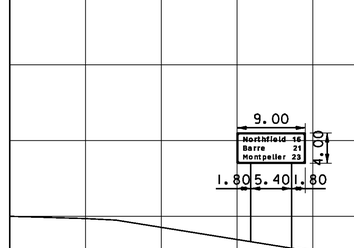
LT. POST - 14.2 FT
MID POST -
MID POST -
RT. POST - 15.6 FT

M.M. 30.180 NB



LT. POST - 20.5 FT
MID POST -
MID POST -
RT. POST - 20.5 FT

M.M. 31.930 NB



LT. POST - 14.3 FT
MID POST -
MID POST -
RT. POST - 15.2 FT

M.M. 21.320 NB

STEEL BEAM GUARDRAIL

LT. POST - 21.0 FT
MID POST -
MID POST -
RT. POST - 23.2 FT

M.M. 23.210 NB

STEEL BEAM GUARDRAIL

LT. POST - 14.3 FT
MID POST -
MID POST -
RT. POST - 17.8 FT

DIMENSIONS FOR CRITICAL OFFSETS OR CLEARANCES SHOWN FOR CONVENIENCE, REFER TO STANDARD SHEET E-120 FOR PLACEMENT GUIDELINES.

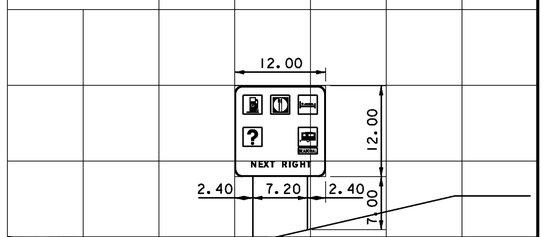
CROSS SECTION SHEET 1

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020xs.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

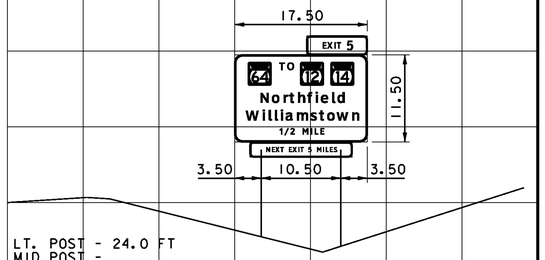
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 147 OF 163

M.M. 42.440 NB



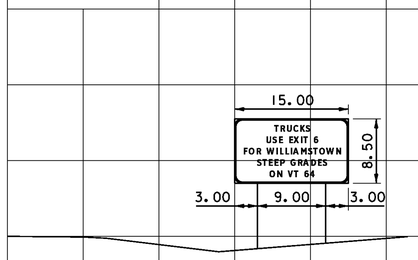
LT. POST - 20.7 FT
MID POST -
MID POST -
RT. POST - 19.0 FT

M.M. 42.290 NB



LT. POST - 24.0 FT
MID POST -
MID POST -
RT. POST - 25.3 FT

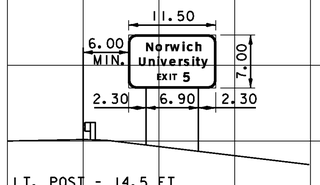
M.M. 42.140 NB



LT. POST - 17.1 FT
MID POST -
MID POST -
RT. POST - 16.4 FT

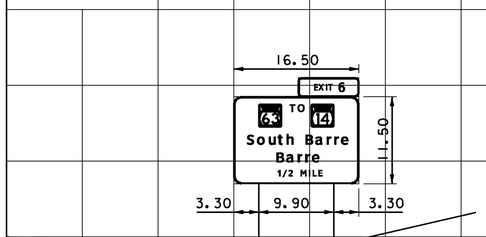
M.M. 41.990 NB

STEEL BEAM GUARDRAIL



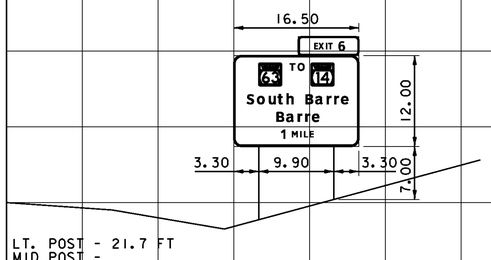
LT. POST - 14.5 FT
MID POST -
MID POST -
RT. POST - 15.4 FT

M.M. 46.250 NB



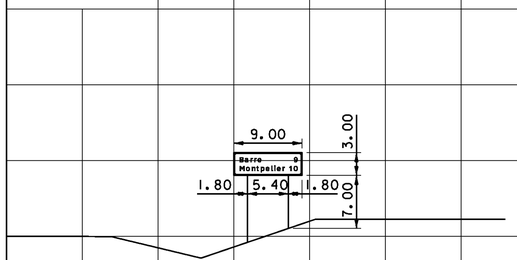
LT. POST - 21.9 FT
MID POST -
MID POST -
RT. POST - 19.6 FT

M.M. 45.900 NB



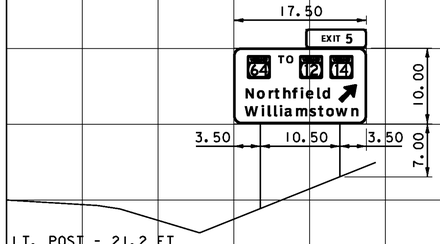
LT. POST - 21.7 FT
MID POST -
MID POST -
RT. POST - 19.0 FT

M.M. 43.830 NB



LT. POST - 11.8 FT
MID POST -
MID POST -
RT. POST - 10.0 FT

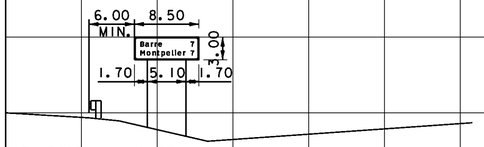
M.M. 42.716 NB



LT. POST - 21.2 FT
MID POST -
MID POST -
RT. POST - 17.0 FT

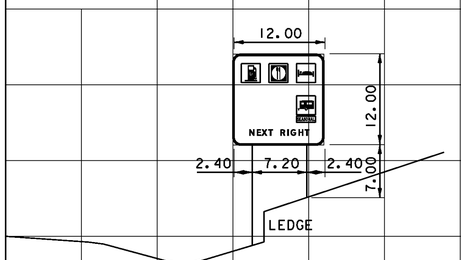
M.M. 47.925 NB

STEEL BEAM GUARDRAIL



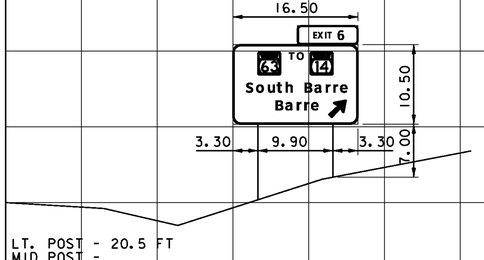
LT. POST - 11.9 FT
MID POST -
MID POST -
RT. POST - 13.1 FT

M.M. 46.405 NB



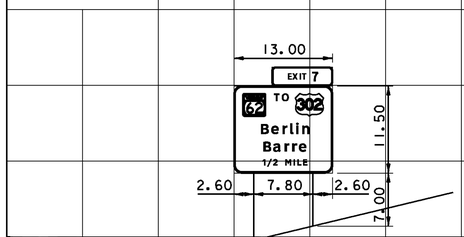
LT. POST - 25.3 FT
MID POST -
MID POST -
RT. POST - 19.0 FT

M.M. 46.535 NB



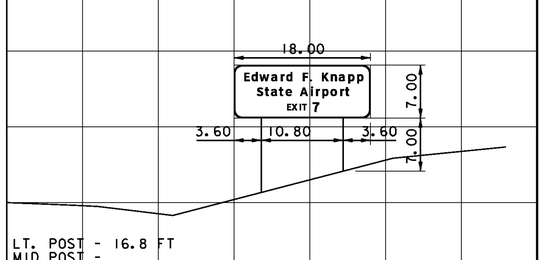
LT. POST - 20.5 FT
MID POST -
MID POST -
RT. POST - 17.5 FT

M.M. 49.505 NB



LT. POST - 20.4 FT
MID POST -
MID POST -
RT. POST - 18.5 FT

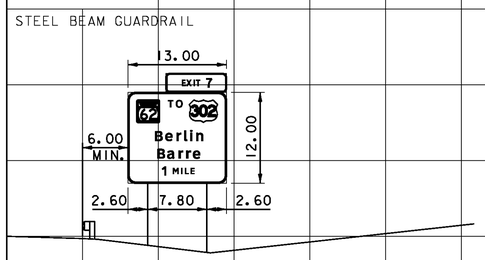
M.M. 49.325 NB



LT. POST - 16.8 FT
MID POST -
MID POST -
RT. POST - 14.0 FT

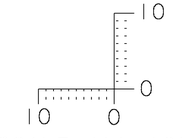
M.M. 48.953 NB

STEEL BEAM GUARDRAIL



LT. POST - 20.2 FT
MID POST -
MID POST -
RT. POST - 21.1 FT

DIMENSIONS FOR CRITICAL OFFSETS OR CLEARANCES SHOWN FOR CONVENIENCE, REFER TO STANDARD SHEET E-120 FOR PLACEMENT GUIDELINES.



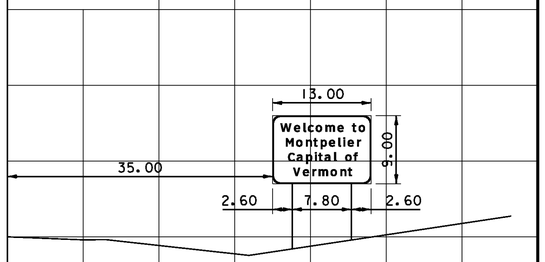
CROSS SECTION SHEET 2

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020xs.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 148 OF 163

M.M. 51.540 NB

EDGELINE

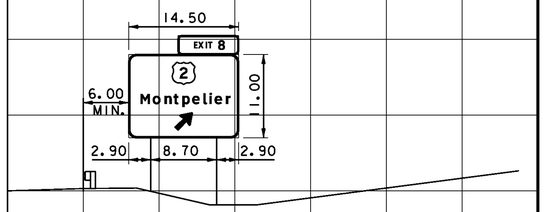


LT. POST - 17.6 FT
MID POST -
MID POST -
RT. POST - 16.4 FT

M.M. 52.595

STEEL BEAM GUARDRAIL

EDGELINE

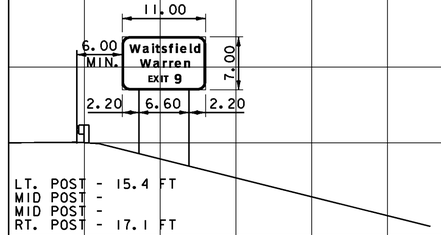


LT. POST - 18.1 FT
MID POST -
MID POST -
RT. POST - 19.9 FT

M.M. 57.800 NB

STEEL BEAM GUARDRAIL

EDGELINE

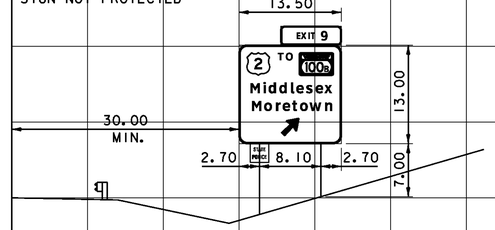


LT. POST - 15.4 FT
MID POST -
MID POST -
RT. POST - 17.1 FT

M.M. 58.455 NB

STEEL BEAM GUARDRAIL
SIGN NOT PROTECTED

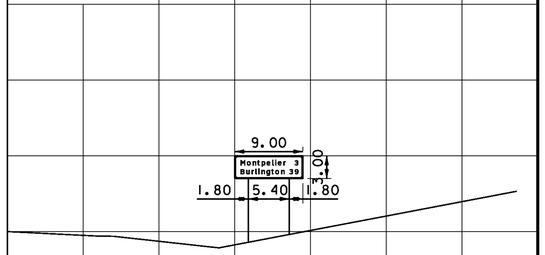
EDGELINE



LT. POST - 22.3 FT
MID POST -
MID POST -
RT. POST - 20.0 FT

M.M. 51.075 NB

EDGELINE

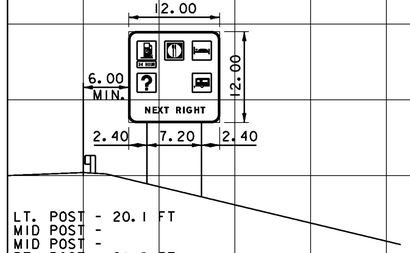


LT. POST - 11.4 FT
MID POST -
MID POST -
RT. POST - 10.4 FT

M.M. 52.440 NB

STEEL BEAM GUARDRAIL

EDGELINE

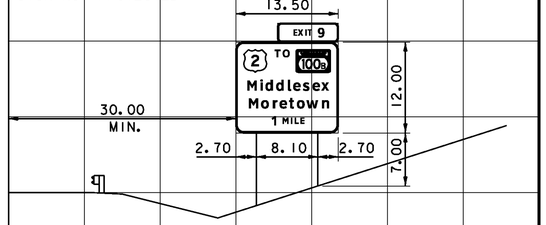


LT. POST - 20.1 FT
MID POST -
MID POST -
RT. POST - 21.8 FT

M.M. 57.330 NB

STEEL BEAM GUARDRAIL
SIGN NOT PROTECTED

EDGELINE

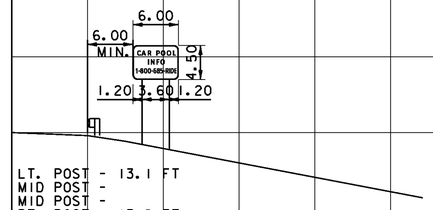


LT. POST - 21.6 FT
MID POST -
MID POST -
RT. POST - 19.0 FT

M.M. 58.130 NB

STEEL BEAM GUARDRAIL

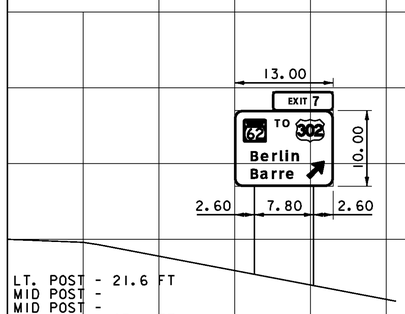
EDGELINE



LT. POST - 13.1 FT
MID POST -
MID POST -
RT. POST - 13.8 FT

M.M. 49.910 NB

EDGELINE

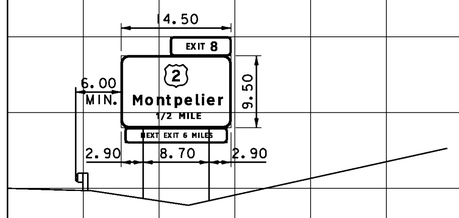


LT. POST - 21.6 FT
MID POST -
MID POST -
RT. POST - 23.1 FT

M.M. 52.235 NB

STEEL BEAM GUARDRAIL

EDGELINE

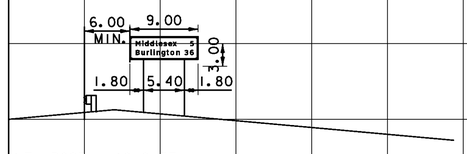


LT. POST - 18.8 FT
MID POST -
MID POST -
RT. POST - 19.1 FT

M.M. 53.880 NB

STEEL BEAM GUARDRAIL

EDGELINE

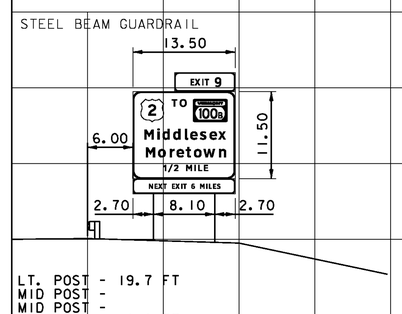


LT. POST - 10.0 FT
MID POST -
MID POST -
RT. POST - 10.5 FT

M.M. 57.955 NB

STEEL BEAM GUARDRAIL

EDGELINE

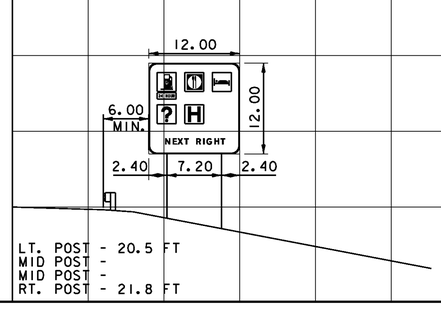


LT. POST - 19.7 FT
MID POST -
MID POST -
RT. POST - 19.9 FT

M.M. 49.735 NB

STEEL BEAM GUARDRAIL

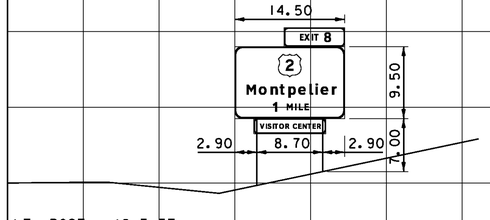
EDGELINE



LT. POST - 20.5 FT
MID POST -
MID POST -
RT. POST - 21.8 FT

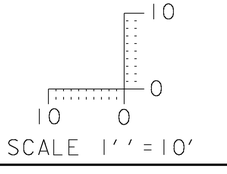
M.M. 51.720 NB

EDGELINE



LT. POST - 18.3 FT
MID POST -
MID POST -
RT. POST - 16.5 FT

DIMENSIONS FOR CRITICAL OFFSETS OR CLEARANCES SHOWN FOR CONVENIENCE, REFER TO STANDARD SHEET E-120 FOR PLACEMENT GUIDELINES.



CROSS SECTION SHEET 3

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020xs.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 149 OF 163

EDGELINE

EDGELINE

EDGELINE

EDGELINE

EDGELINE

EDGELINE

EDGELINE

EDGELINE

EDGELINE

EDGELINE

EDGELINE

EDGELINE

EDGELINE

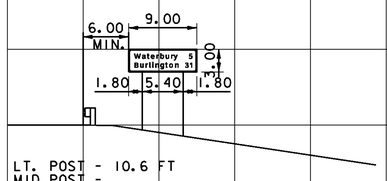
EDGELINE

EDGELINE

EDGELINE

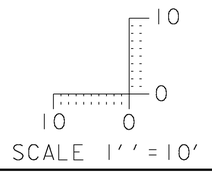
M.M. 59.550 NB

STEEL BEAM GUARDRAIL



LT. POST - 10.6 FT
MID POST -
MID POST -
RT. POST - 11.4 FT

DIMENSIONS FOR CRITICAL OFFSETS OR CLEARANCES SHOWN FOR CONVENIENCE, REFER TO STANDARD SHEET E-120 FOR PLACEMENT GUIDELINES.



SCALE 1'' = 10'

CROSS SECTION SHEET 4

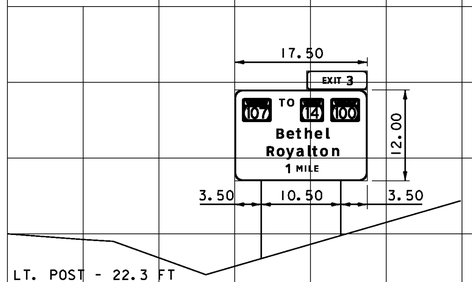
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020xs.dgn
PROJECT LEADER: CRB
DESIGNED BY: BDB
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 150 OF 163

M.M. 23.300 SB

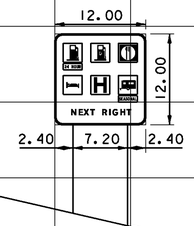
EDGELINE



LT. POST - 22.3 FT
MID POST -
MID POST -
RT. POST - 19.2 FT

M.M. 31.400 SB

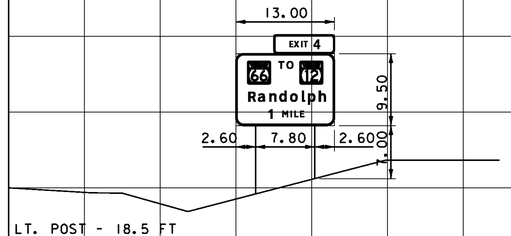
EDGELINE



LT. POST - 23.7 FT
MID POST -
MID POST -
RT. POST - 25.3 FT

M.M. 32.060 SB

EDGELINE



LT. POST - 18.5 FT
MID POST -
MID POST -
RT. POST - 16.5 FT

M.M. 43.240 SB

STEEL BEAM GUARDRAIL

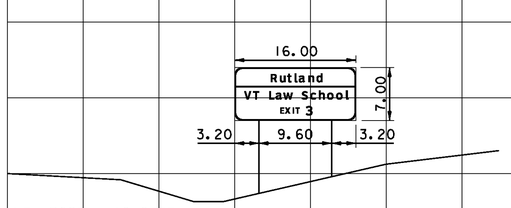
EDGELINE

LT. POST - 21.4 FT
MID POST -
MID POST -
RT. POST - 27.1 FT

SEE FOOTING DETAIL ON SHEET 3

M.M. 23.100 SB

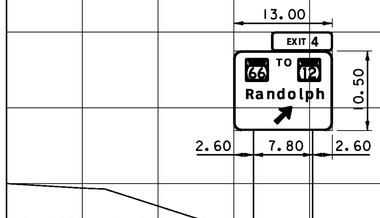
EDGELINE



LT. POST - 16.6 FT
MID POST -
MID POST -
RT. POST - 14.4 FT

M.M. 31.200 SB

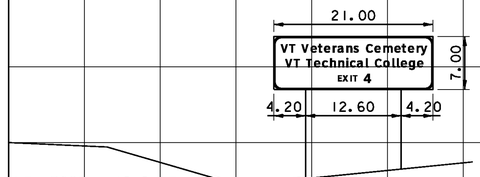
EDGELINE



LT. POST - 24.5 FT
MID POST -
MID POST -
RT. POST - 27.0 FT

M.M. 31.820 SB

EDGELINE

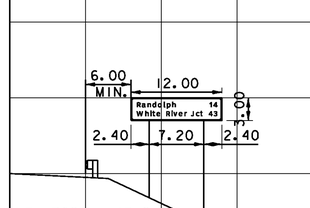


LT. POST - 18.8 FT
MID POST -
MID POST -
RT. POST - 17.5 FT

M.M. 41.840 SB

STEEL BEAM GUARDRAIL

EDGELINE

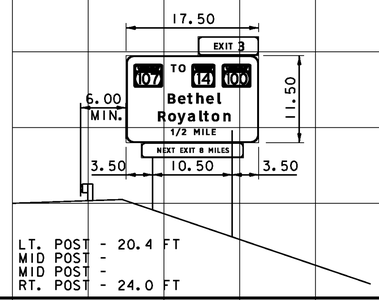


LT. POST - 13.2 FT
MID POST -
MID POST -
RT. POST - 16.5 FT

M.M. 22.949 SB

STEEL BEAM GUARDRAIL

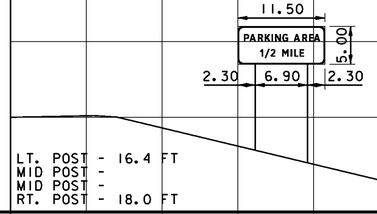
EDGELINE



LT. POST - 20.4 FT
MID POST -
MID POST -
RT. POST - 24.0 FT

M.M. 30.200 SB

EDGELINE

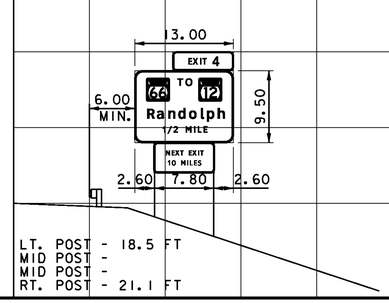


LT. POST - 16.4 FT
MID POST -
MID POST -
RT. POST - 18.0 FT

M.M. 31.570 SB

STEEL BEAM GUARDRAIL

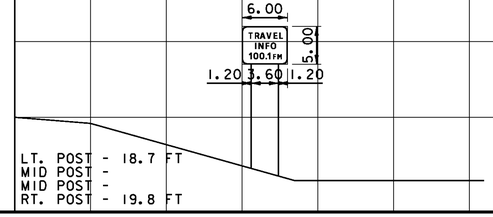
EDGELINE



LT. POST - 18.5 FT
MID POST -
MID POST -
RT. POST - 21.1 FT

M.M. 38.150 SB

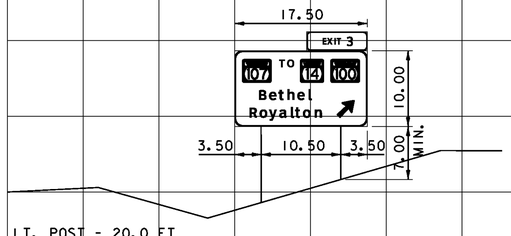
EDGELINE



LT. POST - 18.7 FT
MID POST -
MID POST -
RT. POST - 19.8 FT

M.M. 22.640 SB

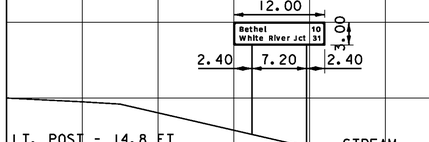
EDGELINE



LT. POST - 20.0 FT
MID POST -
MID POST -
RT. POST - 17.1 FT

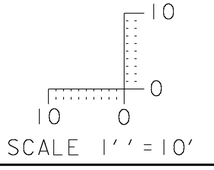
M.M. 29.900 SB

EDGELINE



LT. POST - 14.8 FT
MID POST -
MID POST -
RT. POST - 16.5 FT

DIMENSIONS FOR CRITICAL OFFSETS OR CLEARANCES SHOWN FOR CONVENIENCE, REFER TO STANDARD SHEET E-120 FOR PLACEMENT GUIDELINES.



CROSS SECTION SHEET 5

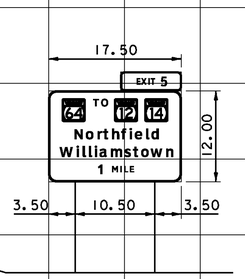
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020xs.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 151 OF 163

EDGELINE

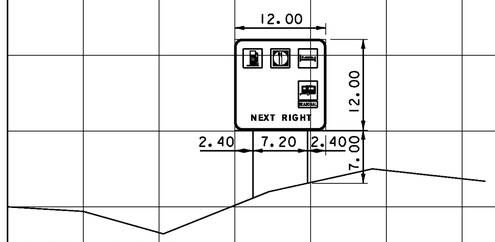
M.M. 44.250 SB



LT. POST - 24.0 FT
MID POST -
MID POST -
RT. POST - 24.0 FT

EDGELINE

M.M. 47.360 SB



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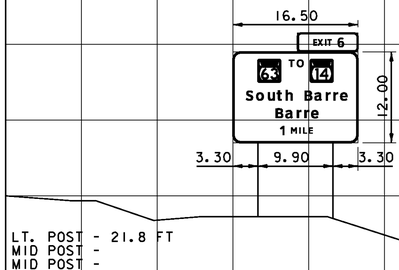
RT. POST - 19.0 FT

EDGELINE

M.M. 47.815 SB



LT. POST - 21.8 FT
MID POST -
MID POST -
RT. POST - 22.0 FT

EDGELINE

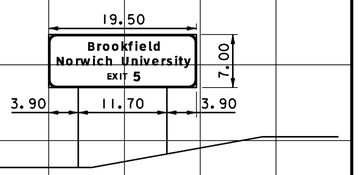
M.M. 51.080 SB

STEEL BEAM GUARDRAIL

LT. POST - 21.7 FT
MID POST -
MID POST -
RT. POST - 25.2 FT

EDGELINE

M.M. 43.700 SB



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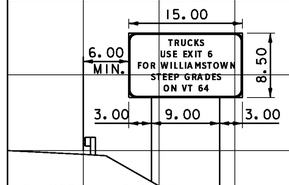
MID POST -
RT. POST - 15.8 FT

EDGELINE

M.M. 47.200 SB

STEEL BEAM GUARDRAIL



LT. POST - 19.6 FT
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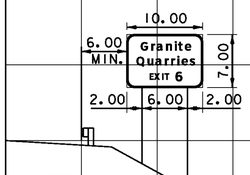
RT. POST - 24.7 FT

SEE FOOTING DETAIL ON SHEET 3

EDGELINE

M.M. 47.660 SB

STEEL BEAM GUARDRAIL



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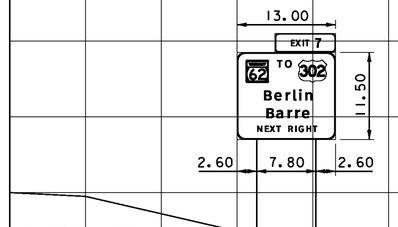
EDGELINE

M.M. 50.930 SB



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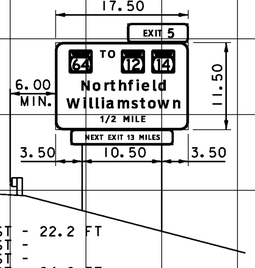
EDGELINE

M.M. 43.540 SB

STEEL BEAM GUARDRAIL



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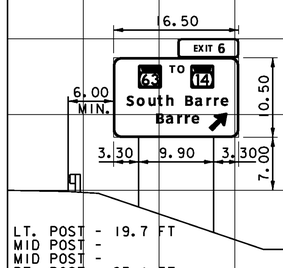
RT. POST - 24.9 FT

EDGELINE

M.M. 46.940 SB

STEEL BEAM GUARDRAIL



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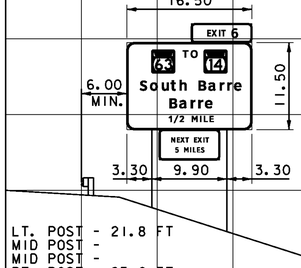
EDGELINE

M.M. 47.510 SB

STEEL BEAM GUARDRAIL



LT. POST - 21.8 FT
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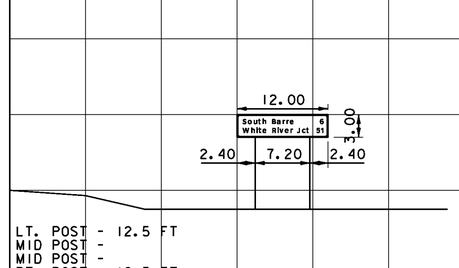
RT. POST - 25.0 FT

EDGELINE

M.M. 49.470 SB



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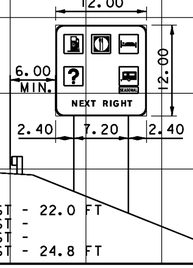
MID POST -
RT. POST - 12.5 FT

EDGELINE

M.M. 43.390 SB

STEEL BEAM GUARDRAIL



LT. POST - 22.0 FT
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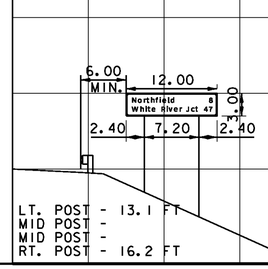
RT. POST - 24.8 FT

EDGELINE

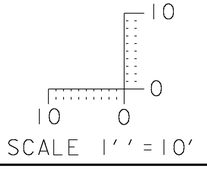
M.M. 45.945 SB

STEEL BEAM GUARDRAIL



LT. POST - 13.1 FT
MID POST -
MID POST -
RT. POST - 16.2 FT

DIMENSIONS FOR CRITICAL OFFSETS OR CLEARANCES SHOWN FOR CONVENIENCE, REFER TO STANDARD SHEET E-120 FOR PLACEMENT GUIDELINES.



CROSS SECTION SHEET 6

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

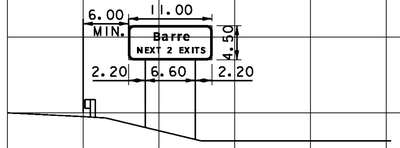
FILE NAME: z09a020xs.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 152 OF 163

M.M. 52.220 SB

STEEL BEAM GUARDRAIL

EDGELINE

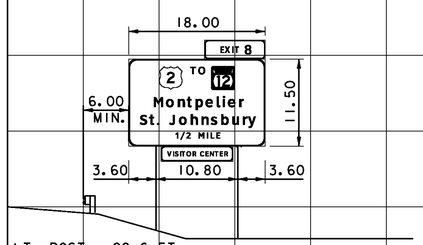


LT. POST - 13.4 FT
MID POST -
MID POST -
RT. POST - 15.0 FT

M.M. 53.850 SB

STEEL BEAM GUARDRAIL

EDGELINE

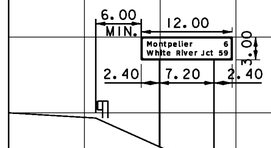


LT. POST - 22.6 FT
MID POST -
MID POST -
RT. POST - 23.7 FT

M.M. 57.850 SB

STEEL BEAM GUARDRAIL

EDGELINE

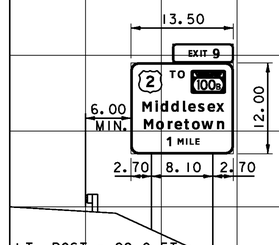


LT. POST - 14.5 FT
MID POST -
MID POST -
RT. POST - 17.7 FT

M.M. 59.870 SB

STEEL BEAM GUARDRAIL

EDGELINE



LT. POST - 22.0 FT
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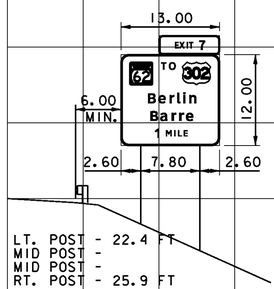
RT. POST - 25.7 FT

M.M. 51.615 SB

STEEL BEAM GUARDRAIL

EDGELINE

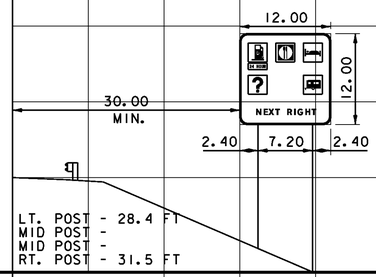


LT. POST - 22.4 FT
MID POST -
MID POST -
RT. POST - 25.9 FT

M.M. 53.550 SB

STEEL BEAM GUARDRAIL
SIGN NOT PROTECTED

EDGELINE



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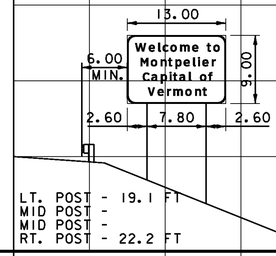
RT. POST - 31.5 FT

M.M. 54.304 SB

STEEL BEAM GUARDRAIL

EDGELINE

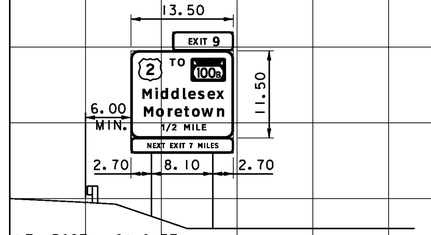


LT. POST - 19.1 FT
MID POST -
MID POST -
RT. POST - 22.2 FT

M.M. 59.300 SB

STEEL BEAM GUARDRAIL

EDGELINE



LT. POST - 21.9 FT
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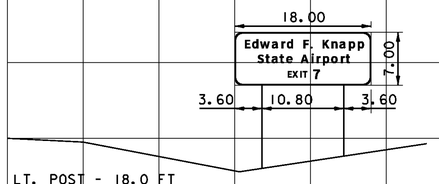
MID POST -
RT. POST - 23.5 FT

M.M. 51.380 SB

EDGELINE

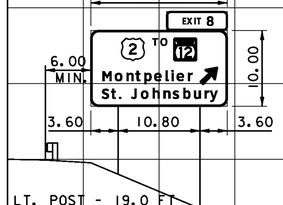


LT. POST - 18.0 FT
MID POST -
MID POST -
RT. POST - 16.4 FT

M.M. 53.350 SB

STEEL BEAM GUARDRAIL

EDGELINE



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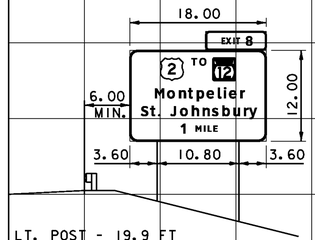
MID POST -
RT. POST - 23.5 FT

M.M. 54.150 SB

STEEL BEAM GUARDRAIL

EDGELINE

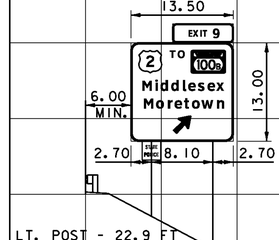


LT. POST - 19.9 FT
MID POST -
MID POST -
RT. POST - 22.6 FT

M.M. 59.000 SB

STEEL BEAM GUARDRAIL

EDGELINE



LT. POST - 22.9 FT
MID POST -
MID POST -
RT. POST - 27.2 FT

SEE FOOTING DETAIL ON SHEET 3

M.M. 51.230 SB

STEEL BEAM GUARDRAIL

EDGELINE

LT. POST - 19.1 FT
MID POST -
MID POST -
RT. POST - 20.4 FT

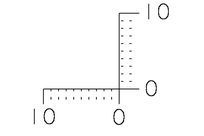
M.M. 52.355 SB

STEEL BEAM GUARDRAIL

EDGELINE

LT. POST - 13.7 FT
MID POST -
MID POST -
RT. POST - 17.6 FT

DIMENSIONS FOR CRITICAL OFFSETS OR CLEARANCES SHOWN FOR CONVENIENCE, REFER TO STANDARD SHEET E-120 FOR PLACEMENT GUIDELINES.



CROSS SECTION SHEET 7

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020xs.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 153 OF 163

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION'S ''STANDARD SPECIFICATIONS FOR CONSTRUCTION'', DATED 2006, WITH CURRENT MODIFICATIONS.

2. OVERHEAD SIGN/SIGNAL SUPPORTS SHALL CONFORM TO AASHTO'S PUBLICATION ENTITLED ''STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS'', DATED 2006 OR ITS LATEST REVISION.

3. ADDITIONAL DESIGN CRITERIA ARE AS FOLLOWS:

   CONCRETE f_c = 1400 PSI f'_c = 3500 PSI
   REINFORCING f_s = 24000 PSI (GRADE 60)
   FOOTING SOIL PRESSURE : 3000 PSF (MAXIMUM)

   WIND LOAD AND ICE LOAD PER AASHTO ''STANDARD SPECIFICATIONS''

4. ANCHOR BOLTS

   FOUR STAINLESS STEEL ANCHOR BOLTS WITH TWO HEXAGON NUTS, ONE WASHER AND ONE LOCK WASHER PER BOLT SHALL BE FURNISHED WITH EACH POLE. ANCHOR BOLT PLATES, WHEN USED, SHALL ALSO BE STAINLESS STEEL. SEE SUB-SECTION 714.09.

5. FLANGE BOLTS

   ALL FLANGE BOLTS AND HEX NUTS SHALL BE HIGH STRENGTH STEEL AND SHALL CONFORM TO ASTM A325. THE FLANGE BOLTS SHALL BE CAPABLE OF RESISTING 133% OF THE FULL DESIGN STRESS OF THE TUBE AT ITS YIELD STRENGTH STRESS.

6. HORIZONTAL AND VERTICAL MEMBERS

   STEEL TUBES SHALL BE FORMED AND WELDED WITH ONE CONTINUOUS LONGITUDINAL WELD ONLY. AFTER FORMING AND WELDING THEY SHALL BE COLD ROLLED TO ENSURE UNIFORMITY OF SIZE AND SMOOTHNESS OF WELD. THEY SHALL HAVE A MINIMUM YIELD STRENGTH OF 48,000 PSI. THERE SHALL BE NO TRANSVERSE WELDING EXCEPT AT THE FLANGE CONNECTIONS AND POLE BASE PLATES, WHERE THE TUBES SHALL TELESCOPE THE FLANGES AND PLATES AND BE CONTINUOUSLY WELDED BOTH SIDES INSIDE AND OUT TO WITHSTAND THE FULL TRANSFER OF THE BENDING STRENGTH TO THE BOLTS

7. GALVANIZING

   ALL STEEL COMPONENTS, EXCEPT CONCRETE REINFORCING AND STAINLESS STEEL HARDWARE, ARE TO BE HOT DIPPED GALVANIZED AFTER FABRICATION. THE ASSEMBLIES SHALL BE DESIGNED AND FABRICATED TO PERMIT GALVANIZING ON ALL INTERIOR AND EXTERIOR SURFACES AND SHALL BE FREE OF POCKETS AND OTHER STRUCTURAL OBSTRUCTIONS THAT WILL NOT PERMIT PROPER DEPOSITION OF ZINC COATING. GALVANIZING SHALL BE IN ACCORDANCE WITH ASTM A123 AND A153.

8. WELDING

   A. ALL DESIGN DETAILS, WORKMANSHIP, PROCEDURES AND INSPECTION SHALL CONFORM WITH SUB-SECTION 506.10.

   B. ALL WELDS SHALL BE AT LEAST AS STRONG AS THE MATERIAL(S) BEING WELDED.

9. FOOTINGS

   A. FOOTINGS SHALL BE DESIGNED TO RESIST LOADS EQUAL TO, OR GREATER THAN, THE MAXIMUM LOADS THAT THE POLE IS DESIGNED FOR.

   B. THREE TYPES OF FOUNDATIONS, AS OUTLINED IN AASHTO STANDARD SPECIFICATIONS (SEE NOTE 2) SECTION 1.8.2 (C) SHALL BE ALLOWED.

      1. DRILLED SHAFTS
      2. SPREAD FOOTINGS AND
      3. PILES.

   C. DRILLED SHAFT FOOTINGS SHALL BE POURED IN DRILLED SHAFTS AGAINST UNDISTURBED MATERIAL. THE TOP TWO FEET OF SOIL SHALL BE NEGLECTED FOR DESIGN PURPOSES.

   D. THE FOLLOWING DESIGN CRITERIA SHALL BE USED:

      1. ASSUME FRICTION ANGLE OF 30 DEGREES FOR ALL SOILS.
      2. DESIGN EMBEDMENT DEPTH IN ACCORDANCE WITH BROM'S METHOD (SECTION 13.6.1.1 AASHTO 'STANDARD SPECIFICATIONS') WITH 0.7 FOR UNDER CAPACITY FACTOR AND 2.5 FOR OVERLOAD FACTOR (OVERALL FACTOR OF SAFETY OF 3.5).

   E. AS AN ALTERNATIVE TO THE DRILLED HOLES, FOOTINGS MAY BE POURED IN EXCAVATED HOLES USING THE PROPER FORMS, WHICH MUST BE REMOVED. THE EXCAVATED HOLES SHALL BE AT LEAST TWO FEET CLEAR OF THE FOOTING SIDES AND ONE FOOT DEEPER THAN THE FOOTING. CARE SHALL BE TAKEN TO AVOID EXCAVATING AROUND THE TOP OF THE FOOTING. THE BACKFILL MATERIAL SHALL BE COMPACTED AS DESCRIBED IN SUB-SECTION 204.08. DESIGN LIMITS AS FOR AUGERED FOOTING APPLY.

   F. WHEN THE DESIGN DEPTH OF A FOOTING CANNOT BE OBTAINED DUE TO UNFORSEEN FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN A REVISED FOOTING DETAIL FROM THE ENGINEER.

   G. ANY BACKFILL PLACED ADJACENT TO THE FOOTING SHALL BE GRANULAR MATERIAL MEETING THE REQUIREMENTS FOR GRANULAR BACKFILL FOR STRUCTURES, SUB-SECTION 704.08. CONCRETE FOR FOOTING SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE, CLASS B, SECTION 501, STRUCTURAL CONCRETE. GROUT MATERIAL SHALL BE NON-SHRINKING MORTAR CONFORMING TO SUB-SECTION 707.03 (MORTAR TYPE IV).

   H. SIGNALS/SIGNS SHALL BE INSTALLED AND LEVELED AND POLES SHALL BE PLUMB PRIOR TO PLACING GROUT UNDER POLE BASE.

10. SHOP DRAWINGS (6 COPIES OF EACH) SHALL BE SUBMITTED TO THE STATE OF VERMONT, AGENCY OF TRANSPORTATION, STRUCTURES DIVISION FOR APPROVAL PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:

    A. DETAILED DRAWING OF EACH COMPONENT OF THE STRUCTURE.

    B. MATERIAL SPECIFICATION FOR EACH COMPONENT OF THE STRUCTURE, EITHER BY COMPLETE SPECIFICATION OR REFERENCE TO APPLICABLE ASTM STANDARDS.

    C. NOTATION OF PROJECT NAME, PROJECT NUMBER, ROUTE NUMBER, AND STRUCTURE STATIONING (TO BE INCLUDED ON EACH SHEET).

    D. DETAILS FOR LOCATION OF SIGNS/SIGNALS AND ATTACHMENT HARDWARE FOR THE SUPPORT STRUCTURE.

    E. ALL ELEVATIONS AND DIMENSIONS NECESSARY TO PROVIDE A COMPLETE SET OF RECORD PLANS.

    F. DEAD LOAD DEFLECTION AND CAMBER INFORMATION.

    G. WELDING DETAILS AND PROCEDURES ARE REQUIRED FOR ALL WELDS. PROCEDURES SHALL BE SUBMITTED FOR APPROVAL WITH REFERENCE TO EACH WELD IDENTIFIED ON THE SHOP DRAWINGS. (SEE SUB-SECTION 506.10)

11. EACH OVERHEAD TRAFFIC SIGN SUPPORT SHALL BE GROUNDED.
    THE GROUND SHALL CONSIST OF:
    A) AN INTERNAL GROUND LUG OPPOSITE THE HAND HOLE.
    B) A #6 (MIN.) SOFT DRAWN COPPER GROUNDING ELECTRODE CONDUCTOR.
    C) A 5/8'' X 8' (MIN.) COPPER CLAD GROUNDING ELECTRODE. THE RESISTANCE TO GROUND SHALL BE 25 OHMS OR LESS. ADDITIONAL GROUNDING ELECTRODES MAY BE REQUIRED (MINIMUM SPACING SHALL BE 6').
    WHEN A POWER SERVICE, METER AND DISCONNECT ARE ATTACHED TO A POLE, THERE SHALL BE A CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE METER AND DISCONNECT WHICH MAY RUN INTERNAL TO THE UPRIGHT, THROUGH THE 1/2'' FLEXIBLE TUBING IN THE CONCRETE BASE TO THE REQUIRED GROUNDING ELECTRODE(S). THE GROUNDING ELECTRODE CONDUCTOR FROM THE POLE GROUNDING LUG, CONTROLLER CABINET AND/OR LUMINAIRE MAY ATTACH TO THIS CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE SERVICE METER AND DISCONNECT. THE CONTRACTOR SHALL PERFORM A RESISTANCE TO GROUND TEST ON THE CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE SERVICE METER AND DISCONNECT AND PROVIDE A WRITTEN STATEMENT TO THE AREA ELECTRICAL INSPECTOR THAT THE GROUNDING ELECTRODE CONDUCTOR IS CONTINUOUS FROM THE SERVICE METER AND DISCONNECT AND THE RESISTANCE TO GROUND IS 25 OHMS OR LESS.

12. THE COST OF SIGN SUPPORTS, INCLUDING ALL HARDWARE, SIGN BRACKETS, FOOTINGS AND LUMINAIRE ARMS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 677.13, THESE COMPONENTS SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF SECTION 677.

13. HORIZONTAL MEMBERS SHALL BE CAMBERED AND THE VERTICAL POLES BACKRAKED (WHERE APPLICABLE) TO THE ANTICIPATED DEAD LOAD DEFLECTION PLUS THE CAMBER, IF ANY, SPECIFIED ON THE PLANS.

14. AN EQUIVALENT ALTERNATE DESIGN MAY BE SUBSTITUTED FOR THE DETAILS AND MATERIALS SHOWN.

15. THE DETAILS OF DESIGN FOR THE STRUCTURE AND FOOTINGS ARE TO BE SUPPLIED BY THE CONTRACTOR AND/OR BY THE MANUFACTURER. THE STRUCTURE SHALL BE DESIGNED TO RESIST THE MAXIMUM LOADING AS OUTLINED IN THE AASHTO STANDARD SPECIFICATIONS (SEE NOTE 2). ALL DETAILS OF THE STRUCTURE AND THE FOOTING SHALL BE CHECKED AND STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF VERMONT PRIOR TO SUBMITTAL OF THE SHOP DRAWINGS TO THE VERMONT AGENCY OF TRANSPORTATION.

16. IN ADDITION TO THE SHOP DRAWINGS OUTLINED IN NOTE 10, THE CONTRACTOR SHALL SUBMIT ALL DESIGN CALCULATIONS TO THE VERMONT AGENCY OF TRANSPORTATION, STRUCTURES DIVISION, SHOWING THE FOLLOWING INFORMATION FOR EACH OF THE VERTICAL AND HORIZONTAL COMPONENTS OF THE STRUCTURE AND FOOTING:

    A. THE DESIGN AXIAL AND SHEAR FORCES AND BENDING AND TORSIONAL MOMENTS.

    B. THE DESIGN AXIAL, BENDING AND SHEAR STRESSES AND THE COMBINED STRESS RATIO.

    C. VIBRATION AND FATIGUE CALCULATIONS AS SET FORTH IN SECTION 9 OF THE AASHTO PUBLICATION REFERENCED IN NOTE 2.

    D. THE ALLOWABLE AXIAL, BENDING, AND SHEAR STRESSES.

    E. ITEMS A, B, D - SHALL BE SHOWN FOR EACH OF THE GROUP LOADINGS (I, II, III) AND FOR THE BASIC WIND LOAD APPLIED TO THE TWO CASES OUTLINED IN THE AASHTO STANDARD SPECIFICATIONS (SEE NOTE 2) SECTION 1.2.5 (D)(4).

    F. FAILURE TO SUPPLY THE PROPER DESIGN INFORMATION SHALL BE CAUSE FOR REJECTION OF THE STRUCTURE.

    G. A MINIMUM OF FOUR (4) WEEKS SHALL BE REQUIRED FOR REVIEW BY THE VERMONT AGENCY OF TRANSPORTATION, STRUCTURES DIVISION.

17. THE CONTRACTOR/MANUFACTURER SHALL BE RESPONSIBLE FOR COMPLETION OF THE STRUCTURE AND FOOTING DATA ON THE DETAIL SHEET(S).

18. FOR INSTALLATIONS WHERE BOTH ''EXISTING'' AND ''FUTURE'' CONDITIONS ARE SHOWN, THE SUPPORTS SHALL BE DESIGNED FOR THE MORE SEVERE OF THE TWO LOADING CONDITIONS. THE INFORMATION OUTLINED IN NOTE 16 ABOVE SHALL BE PROVIDED FOR BOTH THE LOADING CONDITIONS.

19. NOT USED.

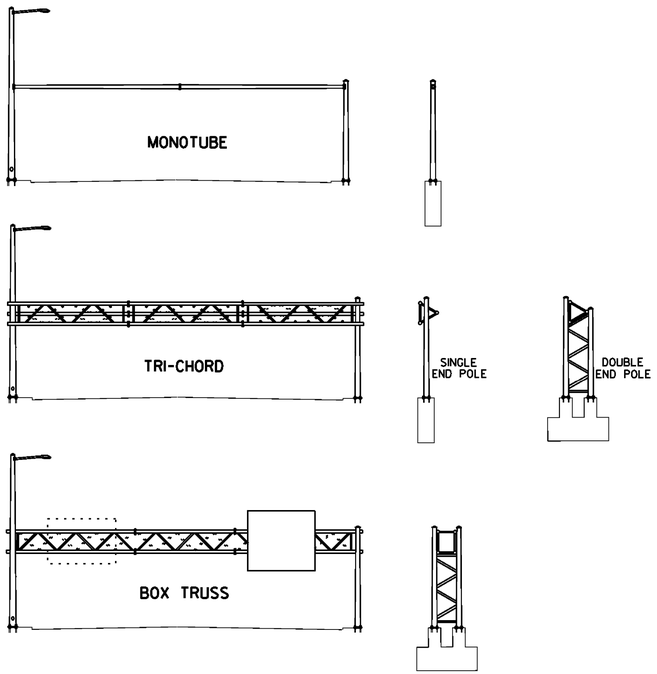
20. BASE PLATES SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER, HEIGHT, YIELD STRENGTH, GAUGE AND THE HORZONTAL MEMBER DIAMETER, LENGTH, YIELD STRENGTH, GAUGE. ALTERNATELY, THE INFORMATION MAY BE STAMPED ON A METAL TAG RIVETED TO THE POLE NEAR THE HANDHOLE.

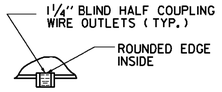
OVERHEAD SIGN SUPPORT NOTES

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

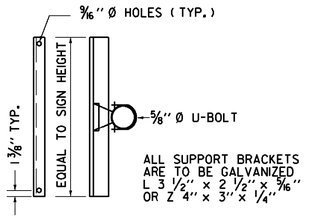
FILE NAME: z09a020overhead.dgn PLOT DATE: 8/12/2009
PROJECT LEADER: CRB DRAWN BY: JBZ
DESIGNED BY: JBZ CHECKED BY: BDB
CLD REF. NO.: 09-0106 SHEET 154 OF 163

MODEL:gen notes





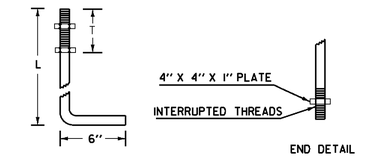
DETAIL A



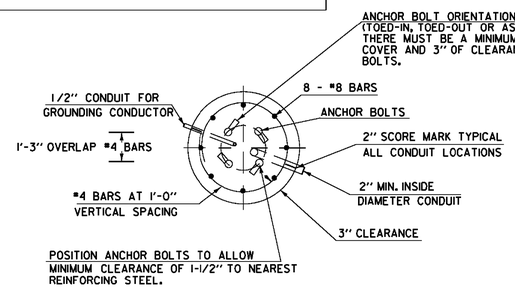
SIGN ON SINGLE MAST ARM

SIGN BRACKET DETAILS

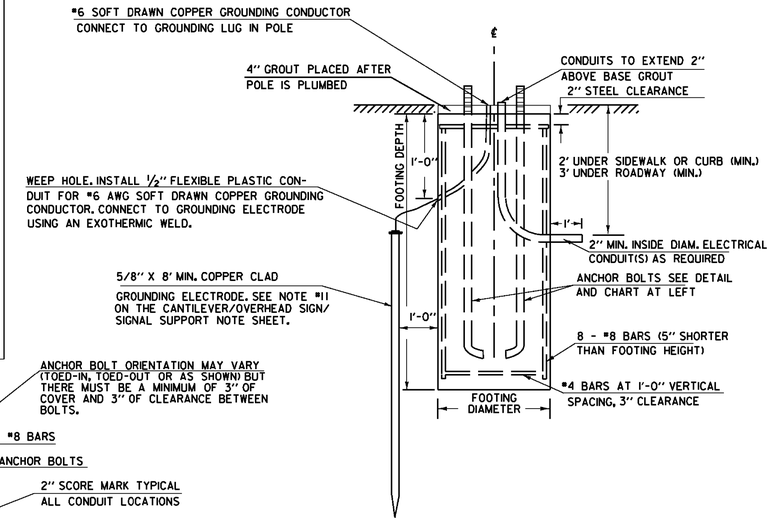
ANCHOR BOLT DETAIL		
SIZE	L (IN)	T (IN)
1- 1/4" X 48"	42	8
1- 1/2" X 60"	54	9
1- 3/4" X 90"	84	9
2" X 96"	96	9



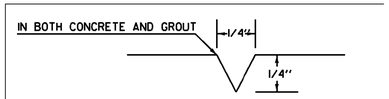
ANCHOR BOLT DETAIL



SECTION



ELEVATION

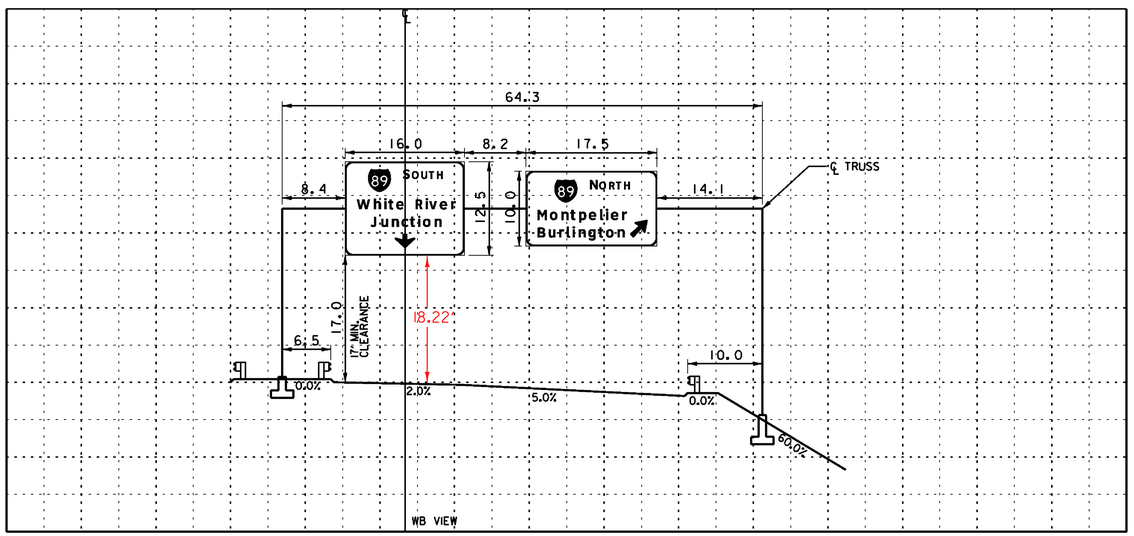


USED FOR CONDUIT LOCATION, SEE SECTION DETAIL AT LEFT

2" SCORE MARK DETAIL

OVERHEAD TRAFFIC SIGN BRIDGE FOOTING DETAIL

(SPREAD FOOTINGS OR PILES ARE OPTIONAL)



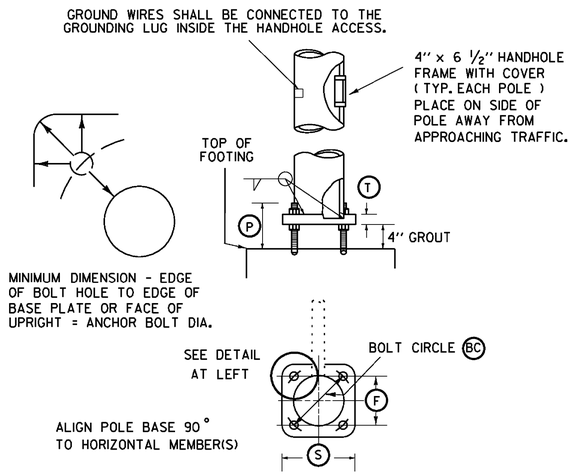
(SEE SHEET 39 FOR LOCATION PLAN)

OVERHEAD SIGN BRIDGE CROSS SECTION

SCALE 1''=10'

NOTES:

1. SEE OVERHEAD SIGN SUPPORT NOTES SHEET FOR ADDITIONAL INFORMATION.
2. MANUFACTURER TO DETERMINE TYPE OF STRUCTURE REQUIRED.
3. MONOTUBES SHALL NOT BE USED FOR SIGNS OVER 10' IN HEIGHT.
4. MINIMUM CLEARANCE FROM SIGNS TO ROADWAY IS 17'.



POLE BASE AND BASE PLATE DETAIL

NOTE:
DETAILS
NTS

LAST REVISED 8/15/95

MODEL: detail

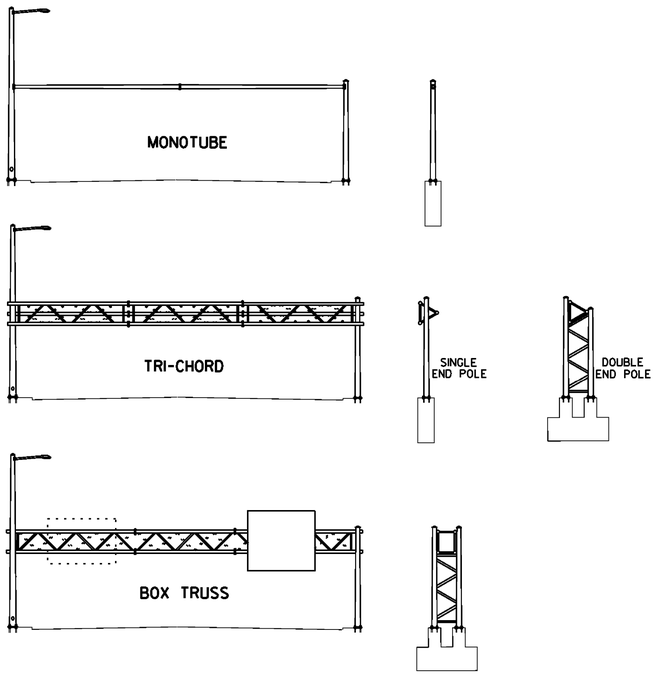
OVERHEAD TRAFFIC SIGN BRIDGE / FOOTING DETAIL SHEET

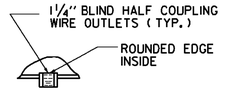
INTERCHANGE #6
VT 63
M.M. 0.138 LT

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

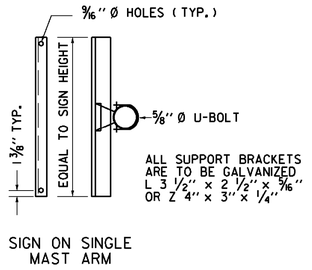
FILE NAME: z09a020overhead.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 155 OF 163



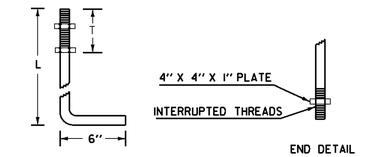


DETAIL A

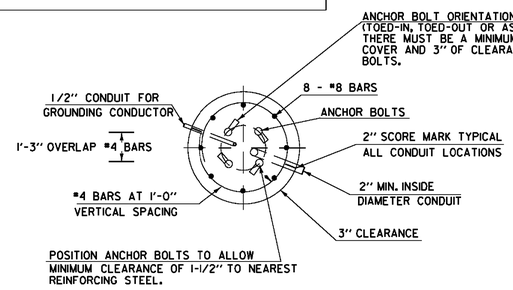


SIGN BRACKET DETAILS

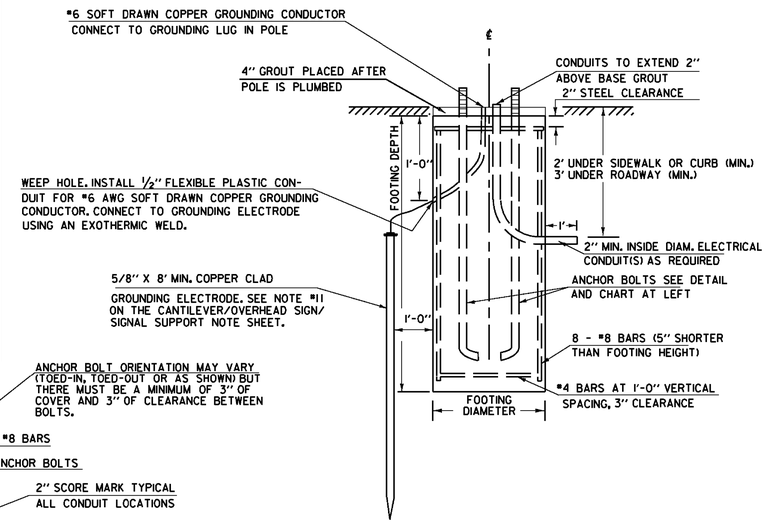
ANCHOR BOLT DETAIL		
SIZE	L (IN)	T (IN)
1- 1/4" X 48"	42	8
1- 1/2" X 60"	54	9
1- 3/4" X 90"	84	9
2" X 96"	96	9



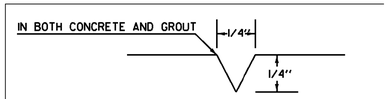
ANCHOR BOLT DETAIL



SECTION



ELEVATION

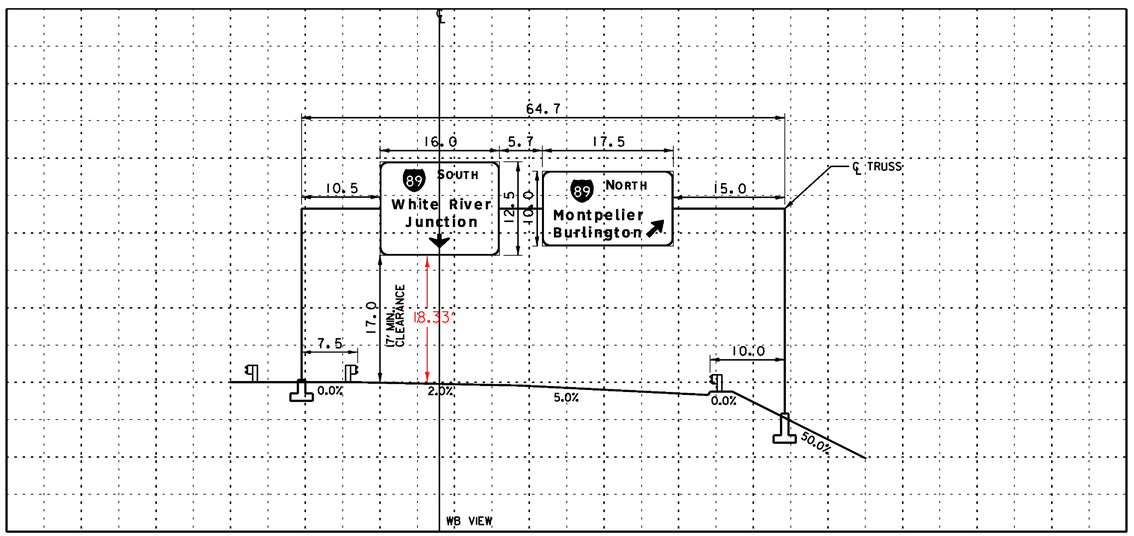


USED FOR CONDUIT LOCATION, SEE SECTION DETAIL AT LEFT

2" SCORE MARK DETAIL

OVERHEAD TRAFFIC SIGN BRIDGE FOOTING DETAIL

(SPREAD FOOTINGS OR PILES ARE OPTIONAL)



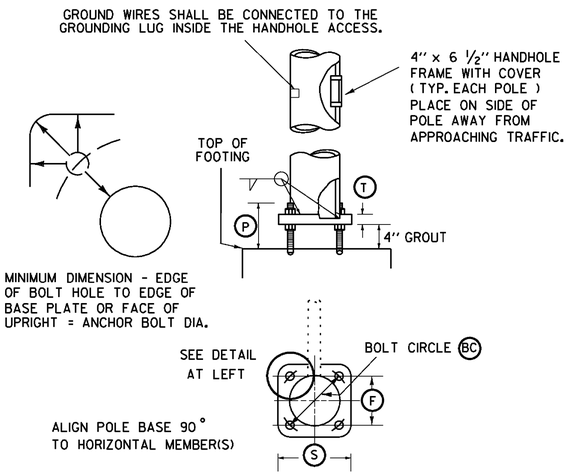
(SEE SHEET 40 FOR LOCATION PLAN)

OVERHEAD SIGN BRIDGE CROSS SECTION

SCALE 1''=10'

NOTES:

1. SEE OVERHEAD SIGN SUPPORT NOTES SHEET FOR ADDITIONAL INFORMATION.
2. MANUFACTURER TO DETERMINE TYPE OF STRUCTURE REQUIRED.
3. MONOTUBES SHALL NOT BE USED FOR SIGNS OVER 10' IN HEIGHT.
4. MINIMUM CLEARANCE FROM SIGNS TO ROADWAY IS 17'.



POLE BASE AND BASE PLATE DETAIL

NOTE:
DETAILS
NTS

LAST REVISED 8/15/95

OVERHEAD TRAFFIC SIGN BRIDGE / FOOTING DETAIL SHEET

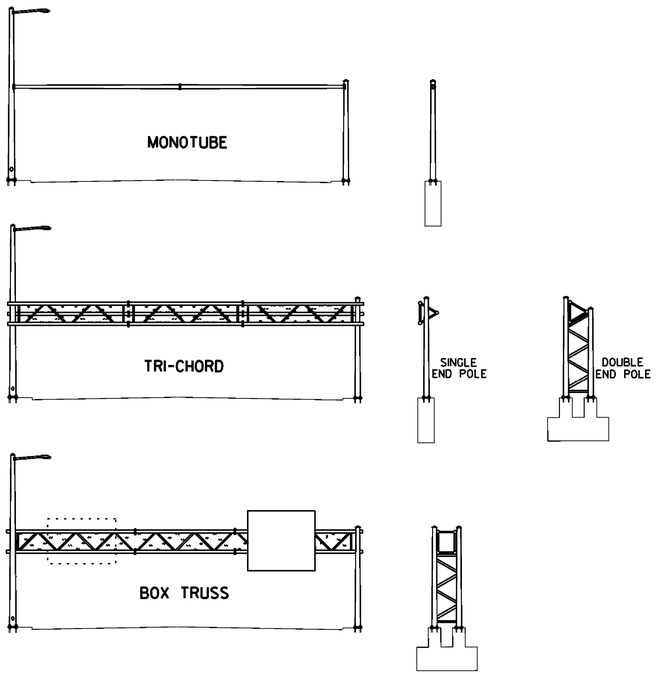
INTERCHANGE #7
VT 62
M.M. 0.115 LT

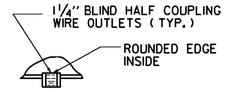
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020overhead.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106

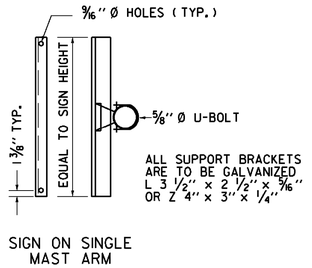
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 156 OF 163

MODEL: detail2





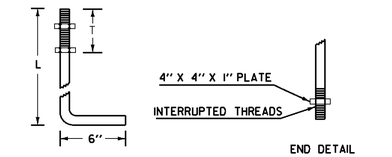
DETAIL A



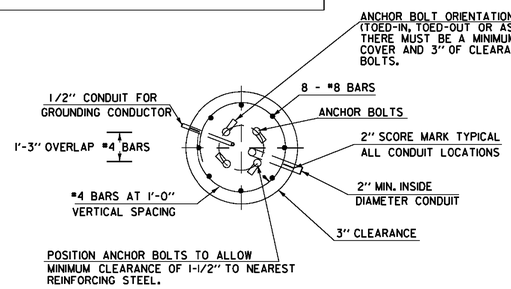
SIGN ON SINGLE MAST ARM

SIGN BRACKET DETAILS

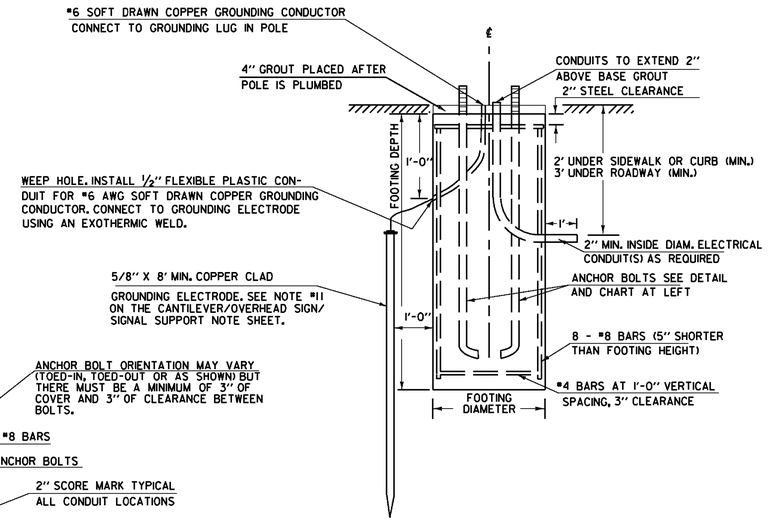
ANCHOR BOLT DETAIL		
SIZE	L (IN)	T (IN)
1- 1/4" X 48"	42	8
1- 1/2" X 60"	54	9
1- 3/4" X 90"	84	9
2" X 96"	96	9



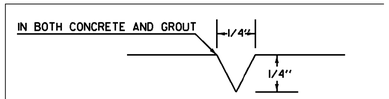
ANCHOR BOLT DETAIL



SECTION



ELEVATION

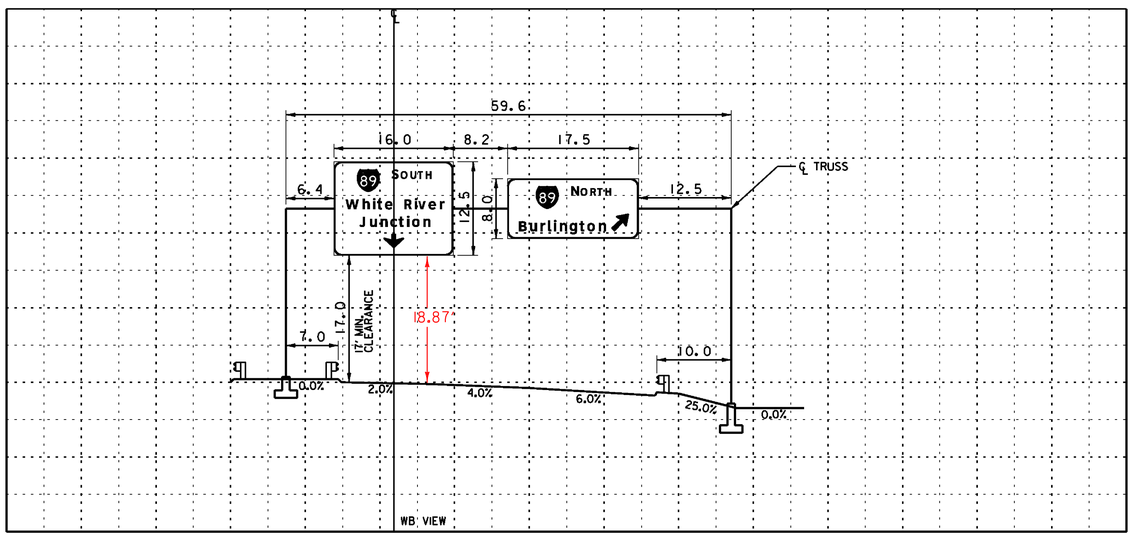


USED FOR CONDUIT LOCATION, SEE SECTION DETAIL AT LEFT

2" SCORE MARK DETAIL

OVERHEAD TRAFFIC SIGN BRIDGE FOOTING DETAIL

(SPREAD FOOTINGS OR PILES ARE OPTIONAL)



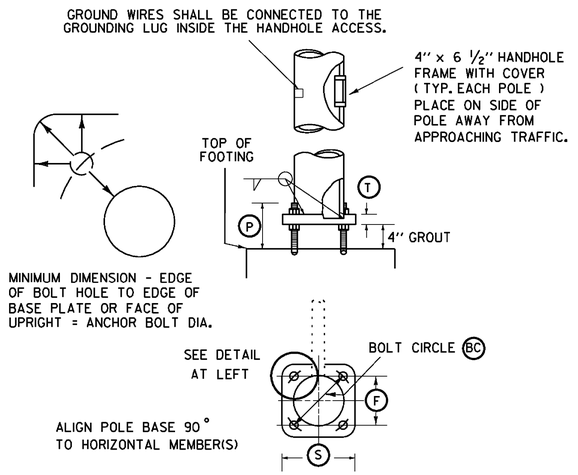
(SEE SHEET 41 FOR LOCATION PLAN)

OVERHEAD SIGN BRIDGE CROSS SECTION

SCALE 1"=10'

NOTES:

1. SEE OVERHEAD SIGN SUPPORT NOTES SHEET FOR ADDITIONAL INFORMATION.
2. MANUFACTURER TO DETERMINE TYPE OF STRUCTURE REQUIRED.
3. MONOTUBES SHALL NOT BE USED FOR SIGNS OVER 10' IN HEIGHT.
4. MINIMUM CLEARANCE FROM SIGNS TO ROADWAY IS 17'.



POLE BASE AND BASE PLATE DETAIL

NOTE:
DETAILS
NTS

OVERHEAD TRAFFIC SIGN BRIDGE / FOOTING DETAIL SHEET

INTERCHANGE #8
MONTPELIER S.H.
M.M. 0.102 LT

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020overhead.dgn
PROJECT LEADER: CRB
DESIGNED BY: JBZ
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JBZ
CHECKED BY: BDB
SHEET 157 OF 163

MODEL: detail3

LAST REVISED 8/15/95

Table 6H-2. Meaning of Symbols on Typical Application Diagrams

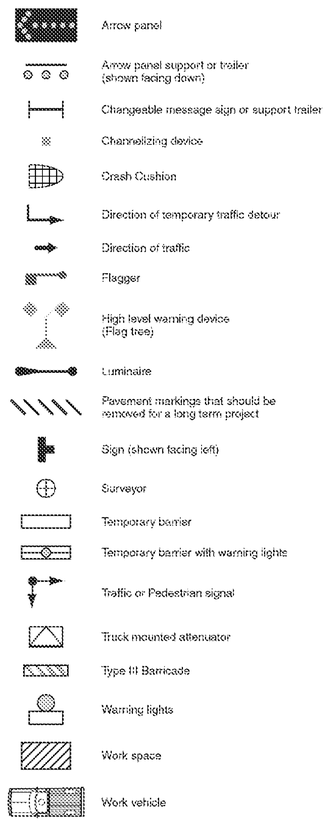


Figure 6E-1. Use of Hand-Signaling Devices by Flaggers

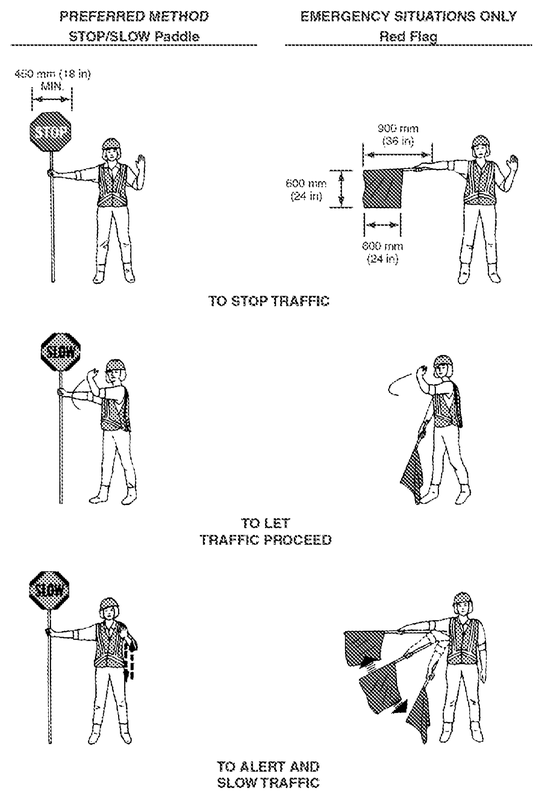


Figure 6C-2. Types of Tapers and Buffer Spaces

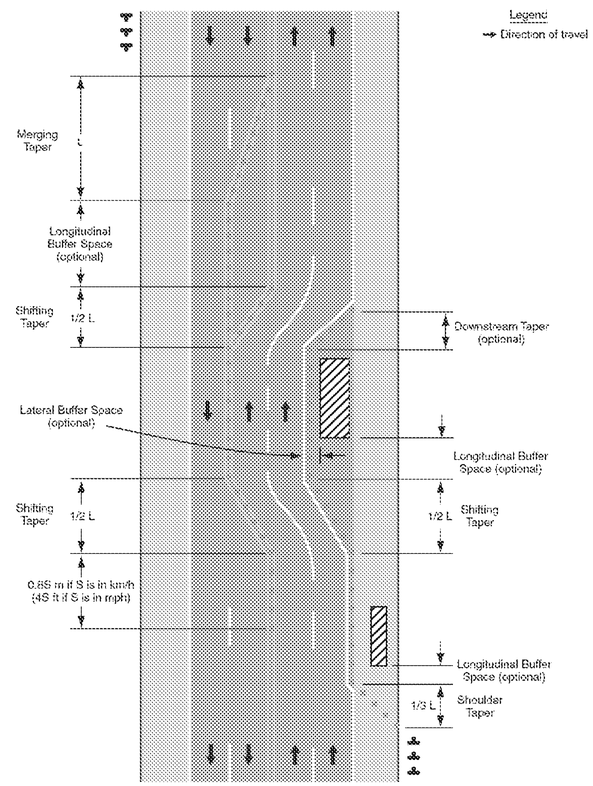
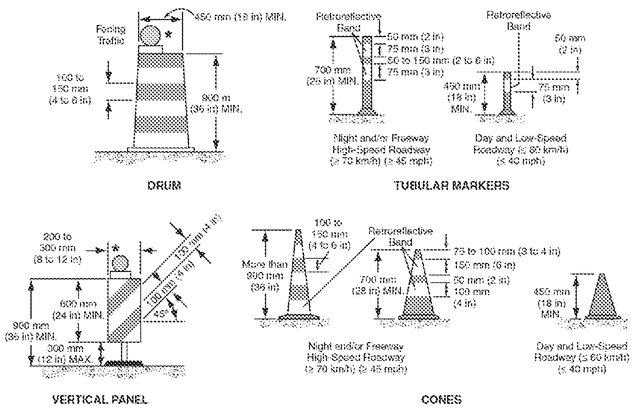


Figure 6F-7. Channelizing Devices (Sheet 1 of 2)



* Warning lights (optional)

Note: If drums, cones, or tubular markers are used to channelize pedestrians, they shall be located such that there are no gaps between the bases of the devices, in order to create a continuous bottom, and the height of each individual drum, cone, or tubular marker shall be no less than 900 mm (36 in) to be detectable to users of long canes.

Table 6C-3. Taper Length Criteria for Temporary Traffic Control Zones

Type of Taper	Taper Length (L)*
Merging Taper	at least L
Shifting Taper	at least 0.5L
Shoulder Taper	at least 0.33L
One-Lane, Two-Way Traffic Taper	30 m (100 ft) maximum
Downstream Taper	30 m (100 ft) per lane

Table 6C-4. Formulas for Determining Taper Lengths

Speed Limit (S)	Taper Length (L) Meters
60 km/h or less	$L = \frac{WS^2}{155}$
70 km/h or more	$L = \frac{WS}{1.6}$

Speed Limit (S)	Taper Length (L) Feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	L = WS

Where: L = taper length in meters (feet)
W = width of offset in meters (feet)
S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in km/h (mph)

TEMPORARY TRAFFIC CONTROL NOTES

1. EMERGENCY RESPONSE UNITS SHALL BE GIVEN PRIORITY AND ACCESS SHALL BE PROVIDED AT ALL TIMES
2. ALL TEMPORARY PAVEMENT MARKINGS, TRAFFIC CONTROL DEVICES, AND SIGNING SHALL CONFORM TO MUTCD AND VERMONT AGENCY OF TRANSPORTATION STANDARDS.
3. TRAFFIC CONTROL SIGNING CONTRARY TO CONSTRUCTION SIGNING SHALL BE COVERED DURING CONSTRUCTION. TRAFFIC CONTROL SIGNING SHALL ONLY BE PRESENT WHEN ACTUAL SCENARIOS DEPICTED ARE PRESENT.
4. ALL WORK SHALL BE EXECUTED IN A MANNER TO PROVIDE THE LEAST AMOUNT OF IMPACT TO TRAFFIC.
5. ITEM 641.10 "TRAFFIC CONTROL" SHALL INCLUDE THE FOLLOWING: CONSTRUCTION SIGNING AND POSTS, CHANNELIZATION DEVICES AND ADJUSTING, RELOCATING AND REMOVAL OF THESE DEVICES. ITEM 630.10 "UNIFORMED TRAFFIC OFFICERS", ITEM 630.15 "FLAGGERS", ITEM 641.15 PORTABLE CHANGEABLE MESSAGE SIGNS, AND ITEM 641.16 PORTABLE ARROW BOARDS SHALL BE PAID SEPARATELY.
6. CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN FOR REMOVAL AND INSTALLATION OF OVERHEAD STRUCTURES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALLOW TWO WEEKS FOR APPROVAL OF THE TRAFFIC CONTROL PLAN. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL BE CONSIDERED INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL. TRAFFIC CONTROL FOR INSTALLATION OF THE OVERHEAD SIGN STRUCTURES AT INTERCHANGE 6, INTERCHANGE 7, AND INTERCHANGE 8 SHALL BE IN ACCORDANCE WITH THE DETAILS PROVIDED AND APPROPRIATE SECTIONS OF THE MUTCD. THESE OPERATIONS WILL REQUIRE SHORT TERM TRAFFIC STOPPAGES, WHICH SHALL NOT EXCEED 15 MINUTES IN DURATION. STOPPAGES SHALL BE PERFORMED ON A SUNDAY PRIOR TO 10:00 AM. THE CONTRACTOR SHALL INFORM THE PUBLIC VIA PORTABLE CHANGABLE MESSAGE SIGNS OF STOPPAGES AT LEAST ONE WEEK IN ADVANCE OF THE FIRST STOPPAGE.

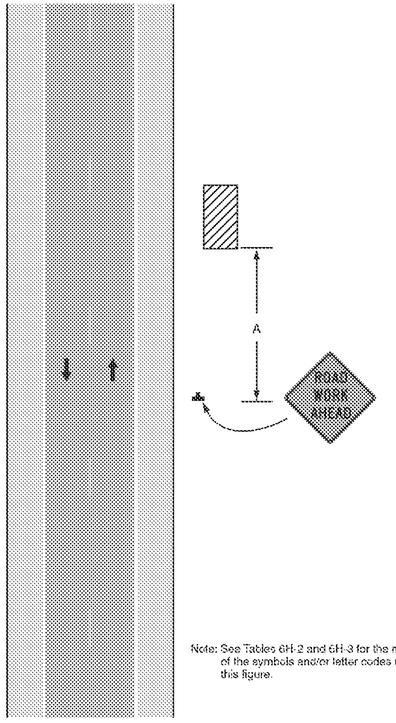
TRAFFIC CONTROL DETAILS SHEET 1

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020tcp.dgn
PROJECT LEADER: CRB
DESIGNED BY: JJB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JJB
CHECKED BY: BDB
SHEET 158 OF 163

MODEL: 01

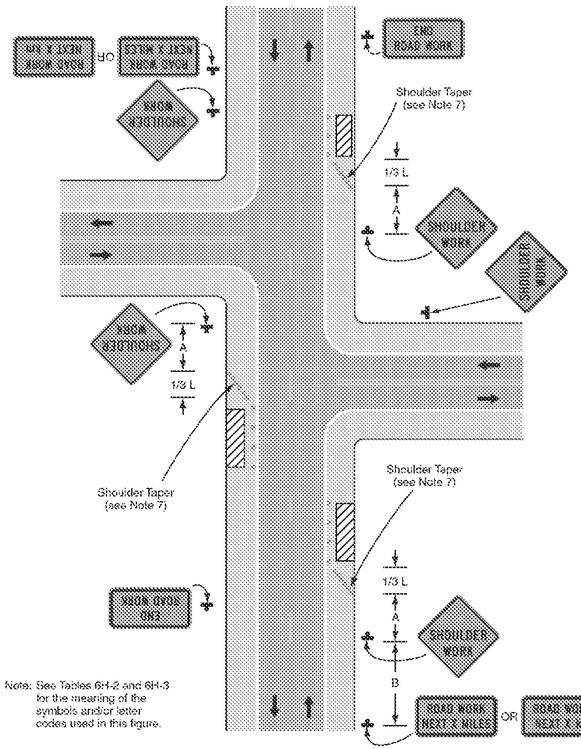
Figure 6H-1. Work Beyond the Shoulder (TA-1)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Typical Application 1

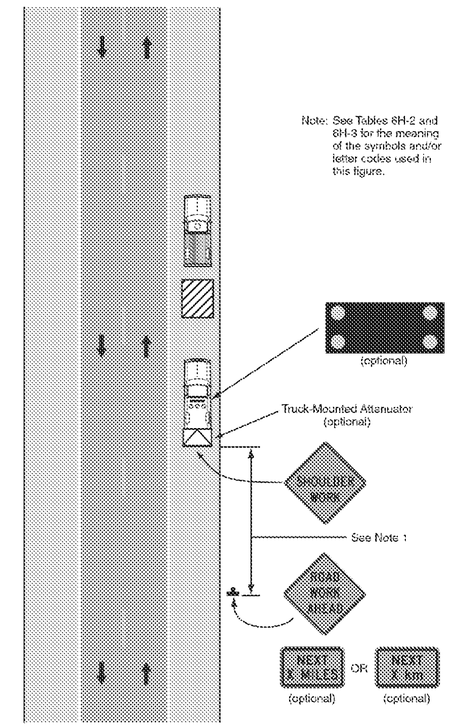
Figure 6H-3. Work on Shoulders (TA-3)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Typical Application 3

Figure 6H-4. Short-Duration or Mobile Operation on Shoulder (TA-4)



Typical Application 4

Table 6C-1. Suggested Advance Warning Sign Spacing

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)*	30 (100)	30 (100)	30 (100)
Urban (high speed)*	100 (350)	100 (350)	100 (350)
Rural	150 (500)	150 (500)	150 (500)
Expressway / Freeway	300 (1,000)	450 (1,500)	800 (2,640)

* Speed category to be determined by highway agency

** Distances are shown in meters (feet). The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The third sign is the first one in a three-sign series encountered by a driver approaching a TTC zone.)

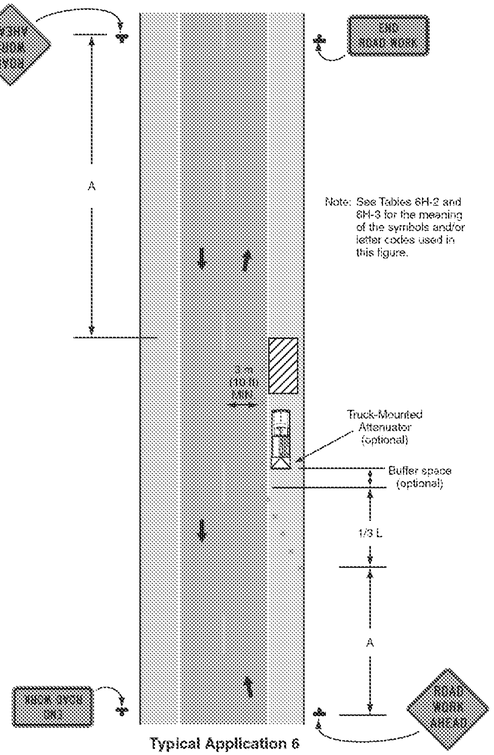
TRAFFIC CONTROL DETAILS SHEET 2

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020tcp.dgn
PROJECT LEADER: CRB
DESIGNED BY: JJB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JJB
CHECKED BY: BDB
SHEET 159 OF 163

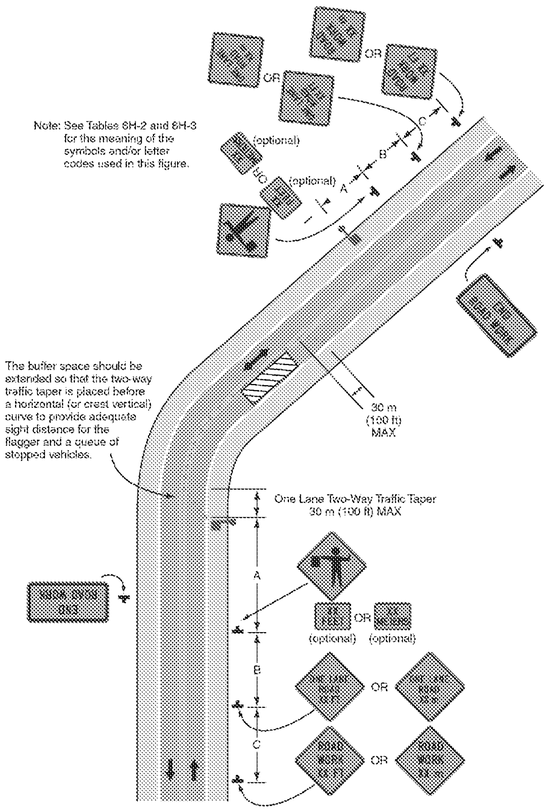
MODEL: 02

Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)



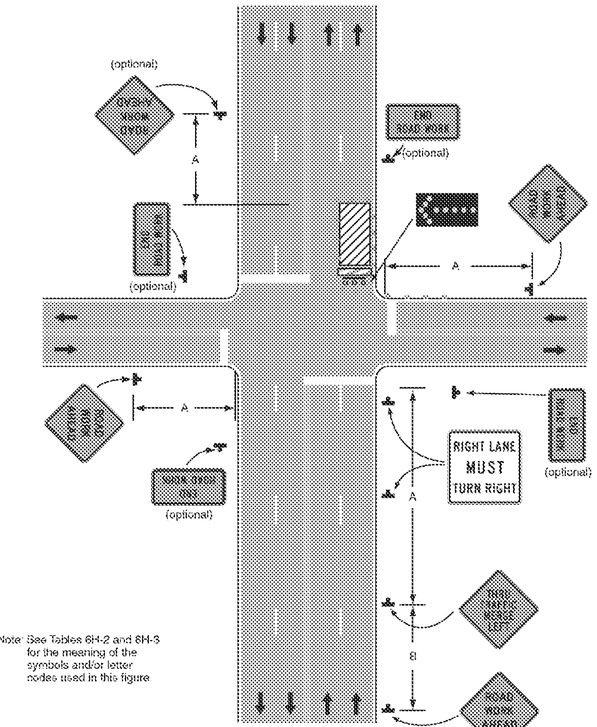
Typical Application 6

Figure 6H-10. Lane Closure on Two-Lane Road Using Flaggers (TA-10)



Typical Application 10

Figure 6H-22. Right Lane Closure on Far Side of Intersection (TA-22)



Typical Application 22

Notes for Figure 6H-22---Typical Application 22
Right Lane Closure on Far Side of Intersection

Guidance:

1. If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure 6H-29.

Option:

2. The normal procedure is to close on the near side of the intersection any lane that is not carried through the intersection. However, when this results in the closure of a right lane having significant right turning movements, then the right lane may be restricted to right turns only, as shown. This procedure increases the through capacity by eliminating right turns from the open through lane.
3. For intersection approaches reduced to a single lane, left-turning movements may be prohibited to maintain capacity for through vehicular traffic.
4. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
5. Where the turning radius is large, it may be possible to create a right-turn island using channelizing devices or pavement markings.

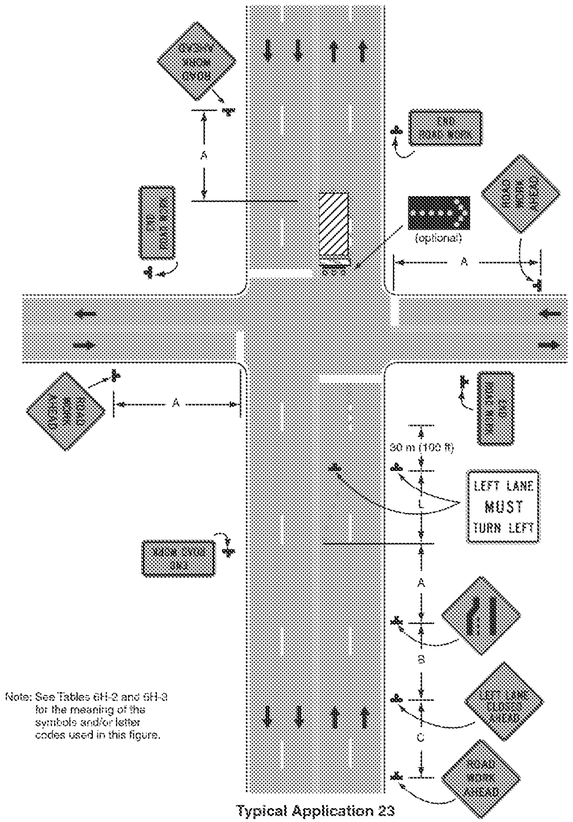
TRAFFIC CONTROL DETAILS SHEET 3

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020tcp.dgn
PROJECT LEADER: CRB
DESIGNED BY: JJB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JJB
CHECKED BY: BDB
SHEET 160 OF 163

MODEL: 03

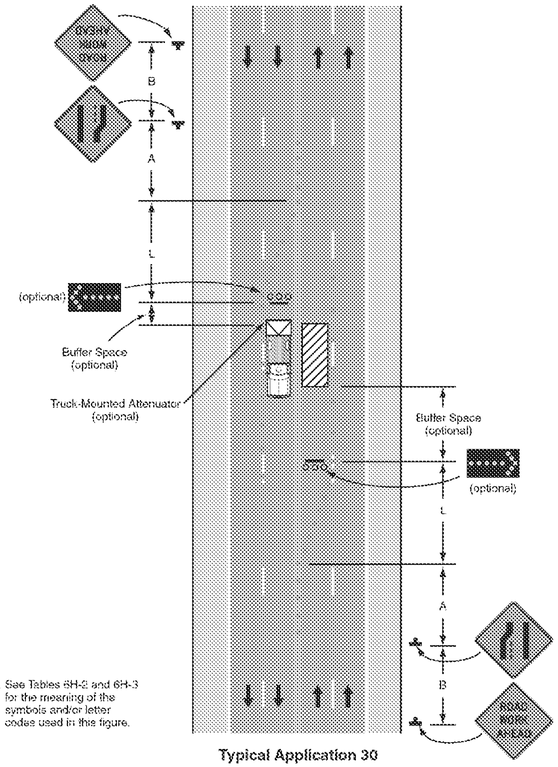
Figure 6H-23. Left Lane Closure on Far Side of Intersection (TA-23)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Typical Application 23

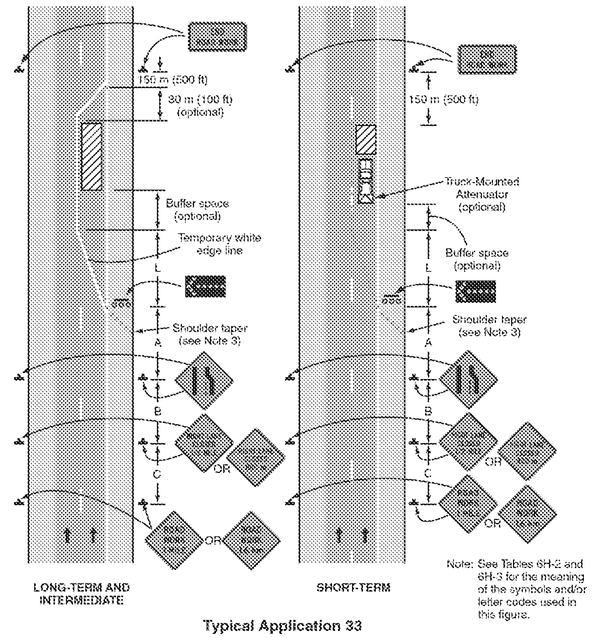
Figure 6H-30. Interior Lane Closure on Multi-lane Street (TA-30)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Typical Application 30

Figure 6H-33. Stationary Lane Closure on Divided Highway (TA-33)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Typical Application 33

Notes for Figure 6H-23—Typical Application 23
Left Lane Closure on Far Side of Intersection

Guidance:

1. If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure 6H-29.

Option:

2. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
3. The normal procedure is to close on the near side of the intersection any lane that is not carried through the intersection. However, when this results in the closure of a left lane having significant left-turning movements, then the left lane may be reopened as a turn bay for left turns only, as shown.

Support:

4. By first closing off the left lane and then reopening it as a turn bay, an island is created with channelizing devices that allows the LEFT LANE MUST TURN LEFT sign to be repeated on the left adjacent to the lane that it controls.

Notes for Figure 6H-30—Typical Application 30
Interior Lane Closure on Multi-lane Street

Guidance:

1. This information applies to low-speed, low-volume urban streets. Where speed or volume is higher, additional signing such as LEFT LANE CLOSED XX m (FT) should be used between the signs shown.

Option:

2. The closure of the adjacent interior lane in the opposing direction may not be necessary, depending upon the activity being performed and the work space needed for the operation.
3. Shadow vehicles with a truck-mounted attenuator may be used.

Guidance:

4. When a highway-rail grade crossing exists within or upstream of the transition area and it is anticipated that backups resulting from the lane closure might extend through the highway-rail grade crossing, the TTC zone should be extended so that the transition area precedes the highway-rail grade crossing.
5. Early coordination with the railroad company should occur before work starts.

Notes for Figure 6H-33—Typical Application 33
Stationary Lane Closure on Divided Highway

Standard:

1. **This information also shall be used when work is being performed in the lane adjacent to the median on a divided highway. In this case, the LEFT LANE CLOSED signs and the corresponding Lane Ends signs shall be substituted.**
2. **When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed as needed.**

Guidance:

3. When paved shoulders having a width of 2.4 m (8 ft) or more are closed, channelizing devices should be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

Option:

4. A truck-mounted attenuator may be used on the work vehicle and/or shadow vehicle.

Support:

5. Where conditions permit, restricting all vehicles, equipment, workers, and their activities to one side of the roadway might be advantageous.

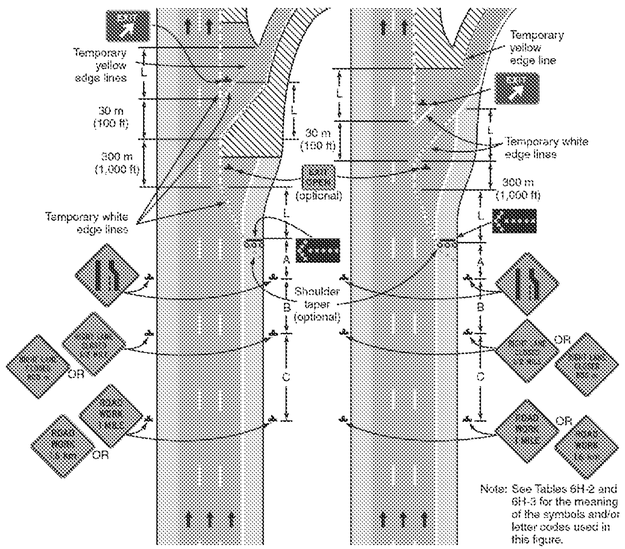
TRAFFIC CONTROL DETAILS SHEET 4

PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020tcp.dgn
PROJECT LEADER: CRB
DESIGNED BY: JJB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JJB
CHECKED BY: BDB
SHEET 161 OF 163

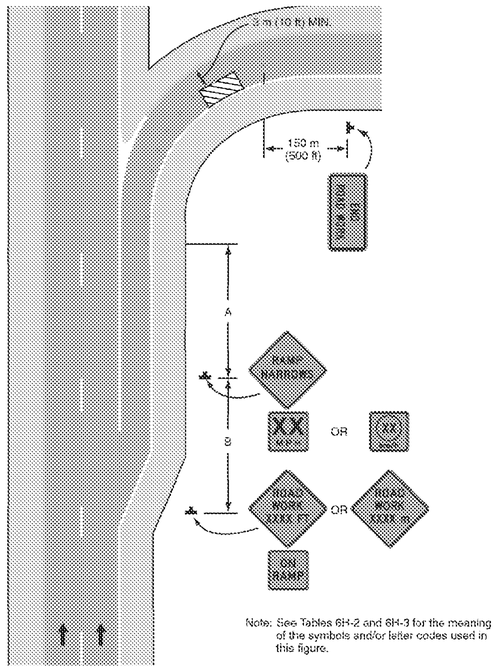
MODEL: 04

Figure 6H-42. Work in Vicinity of Exit Ramp (TA-42)



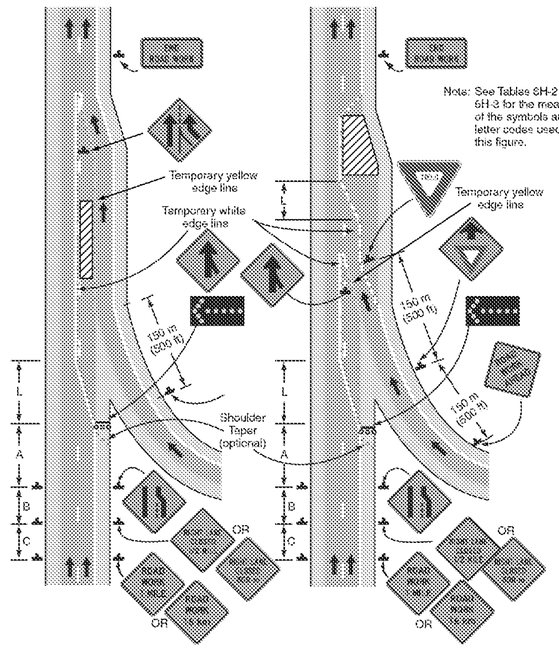
Typical Application 42

Figure 6H-43. Partial Exit Ramp Closure (TA-43)



Typical Application 43

Figure 6H-44. Work in Vicinity of Entrance Ramp (TA-44)



Typical Application 44

Notes for Figure 6H-42—Typical Application 42
Work in Vicinity of Exit Ramp

Guidance:

1. The guide signs should indicate that the ramp is open, and where the temporary ramp is located. However, if the ramp is closed, guide signs should indicate that the ramp is closed.
2. When the exit ramp is closed, a black on orange EXIT CLOSED panel should be placed diagonally across the interchange/intersection guide signs.
3. The design criteria contained in the AASHTO "Policy on the Geometric Design of Highways and Streets" should be used for determining the alignment (see Section 1A.10).

Standard:

4. **A temporary EXIT sign shall be located in the temporary gore. For better visibility, it shall be mounted a minimum of 2.1 m (7 ft) from the pavement surface to the bottom of the sign.**

Option:

5. An alternative procedure that may be used is to channelize exiting vehicular traffic onto the right shoulder and close the lane as necessary.

Notes for Figure 6H-43—Typical Application 43
Partial Exit Ramp Closure

Guidance:

1. Truck off-tracking should be considered when determining whether the minimum lane width of 3 m (10 ft) is adequate (see Section 6G.07).

Notes for Figure 6H-44—Typical Application 44
Work in Vicinity of Entrance Ramp

Guidance:

1. An acceleration lane of sufficient length should be provided whenever possible as shown on the left diagram.

Standard:

2. **For the information shown on the diagram on the right side of the typical application, where inadequate acceleration distance exists for the temporary entrance, the YIELD sign shall be replaced with STOP signs (one on each side of the approach).**

Guidance:

3. When used, the YIELD or STOP sign should be located so that ramp vehicular traffic has adequate sight distance of oncoming mainline vehicular traffic to select a reasonably safe gap in the mainline vehicular traffic flow. Also, a longer acceleration lane should be provided beyond the sign to reduce the gap size needed. If insufficient gaps are available, consideration should be given to closing the ramp.
4. Where STOP signs are used, a temporary stop line should be placed across the ramp at the desired stop location.
5. The mainline merging taper with the arrow panel at its starting point should be located sufficiently in advance so that the arrow panel is not confusing to drivers on the entrance ramp, and so that the mainline merging vehicular traffic from the lane closure has the opportunity to stabilize before encountering the vehicular traffic merging from the ramp.
6. If the ramp curves sharply to the right, warning signs with Advisory Speed Limits located in advance of the entrance terminal should be placed in pairs (one on each side of the ramp).

Option:

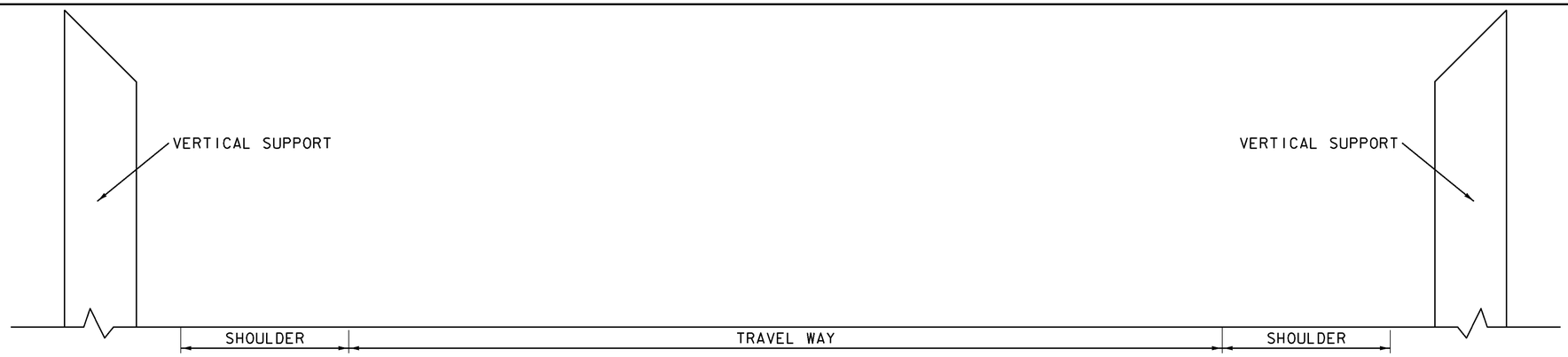
7. A Type B high-intensity warning flasher with a red lens may be placed above the STOP sign.
8. Where the acceleration distance is significantly reduced, a supplemental plaque may be placed below the YIELD AHEAD sign reading NO MERGE AREA.

TRAFFIC CONTROL DETAILS SHEET 5

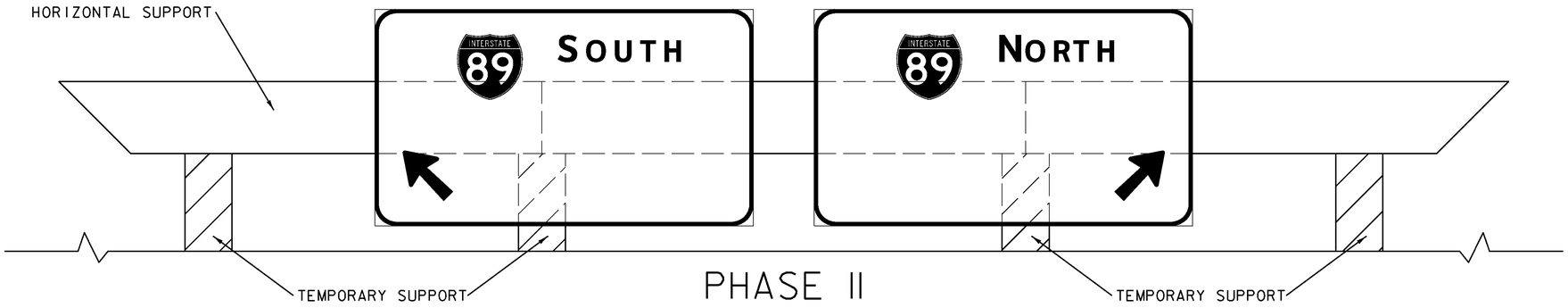
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020tcp.dgn
PROJECT LEADER: CRB
DESIGNED BY: JJB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JJB
CHECKED BY: BDB
SHEET 162 OF 163

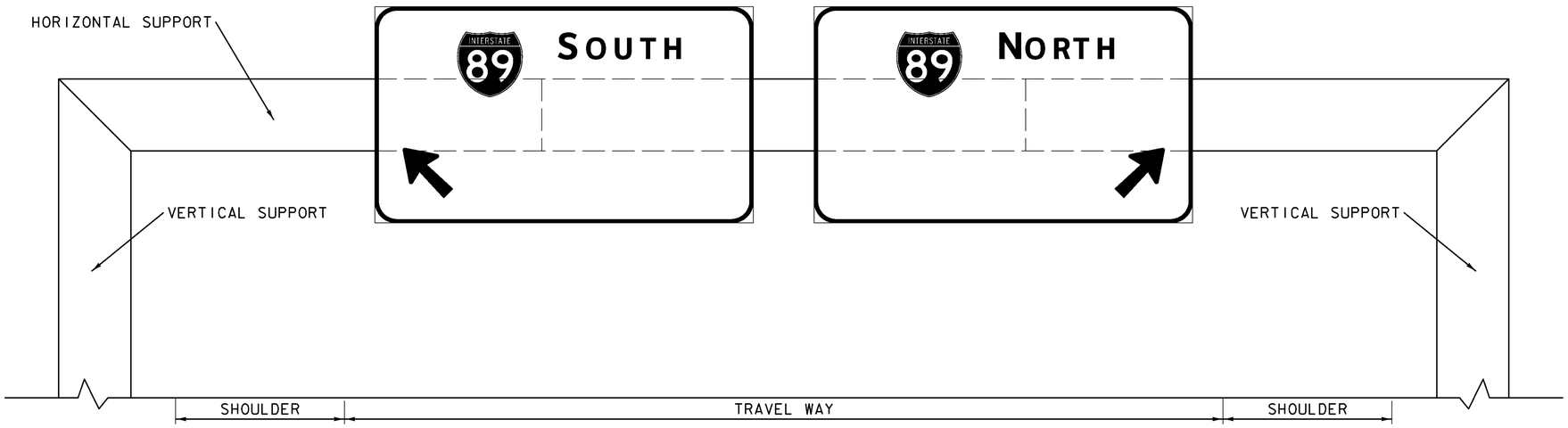
MODEL: 05



PHASE I



PHASE II



PHASE III

OVERHEAD STRUCTURE TRAFFIC CONTROL NOTES

DETAIL IS TO BE USED FOR THE REPLACEMENT OF THE OVERHEAD SIGN STRUCTURES AT INTERCHANGES 6, 7, AND 8.

THIS SHEET IS INTENDED AS A SUGGESTED CONSTRUCTION PHASING AND DOES NOT CONSTITUTE A SITE SPECIFIC TRAFFIC CONTROL PLAN.

CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN FOR REMOVAL AND INSTALLATION OF OVERHEAD STRUCTURES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALLOW TWO WEEKS FOR APPROVAL OF THE TRAFFIC CONTROL PLAN. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL BE CONSIDERED INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL. TRAFFIC CONTROL FOR INSTALLATION OF THE OVERHEAD SIGN STRUCTURES AT INTERCHANGE 6, INTERCHANGE 7, AND INTERCHANGE 8 SHALL BE IN ACCORDANCE WITH THE DETAILS PROVIDED AND APPROPRIATE SECTONS OF THE MUTCD. THESE OPERATIONS WILL REQUIRE SHORT TERM TRAFFIC STOPPAGES, WHICH SHALL NOT EXCEED 15 MINUTES IN DURATION. STOPPAGES SHALL BE PERFORMED ON A SUNDAY PRIOR TO 10:00 AM. THE CONTRACTOR SHALL INFORM THE PUBLIC VIA PORTABLE CHANGABLE MESSAGE SIGNS OF STOPPAGES AT LEAST ONE WEEK IN ADVANCE OF THE FIRST STOPPAGE.

PHASE I

OVERHEAD STRUCTURE FOUNDATIONS AND VERTICAL SUPPORTS WILL BE CONSTRUCTED USING SINGLE LANE CLOSURES. SEE TRAFFIC CONTROL DETAILS SHEET 4.

PHASE II

HORIZONTAL SUPPORT WILL BE ASSEMBLED WITHIN THE SINGLE LANE CLOSURE. ONCE ASSEMBLED, ALL SIGNING WILL BE ATTACHED.

TEMPORARY SUPPORTS WILL BE USED TO ATTAIN MINIMUM HEIGHT NEEDED TO ATTACH SIGNAGE WITHOUT DAMAGE.

PHASE III

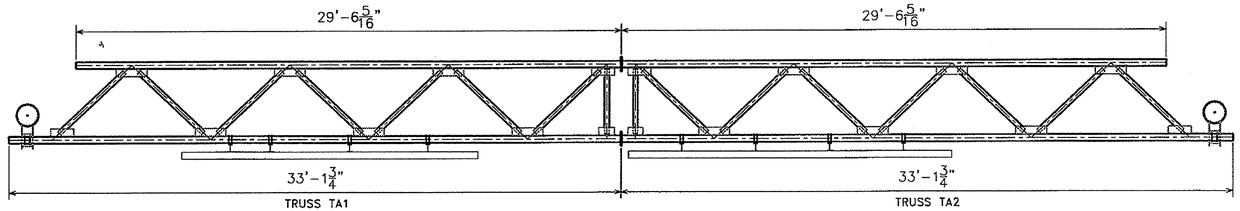
THE HORIZONTAL SUPPORT WITH SIGNAGE WILL BE ATTACHED TO THE VERTICAL SUPPORTS. TRAFFIC WILL BE STOPPED DURING THIS PROCESS BY THE USE OF A ROLLING ROAD BLOCK.

TRAFFIC CONTROL DETAILS SHEET 6

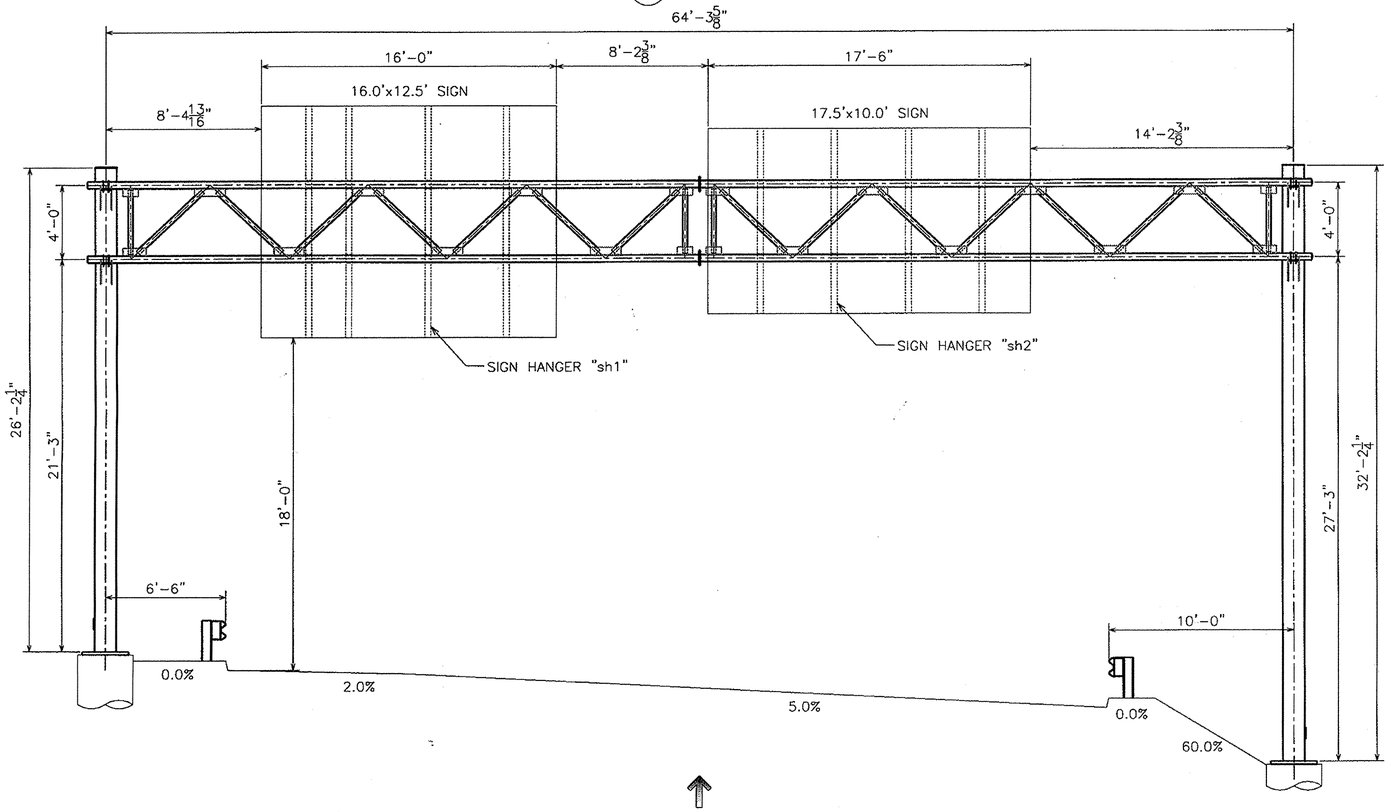
PROJECT NAME: ROYALTON-MIDDLESEX
PROJECT NUMBER: IMG SIGN(19)

FILE NAME: z09a020tcp.dgn
PROJECT LEADER: CRB
DESIGNED BY: JJB
CLD REF. NO.: 09-0106
PLOT DATE: 8/12/2009
DRAWN BY: JJB
CHECKED BY: BDB
SHEET 163 OF 163

MODEL: 06



A VIEW

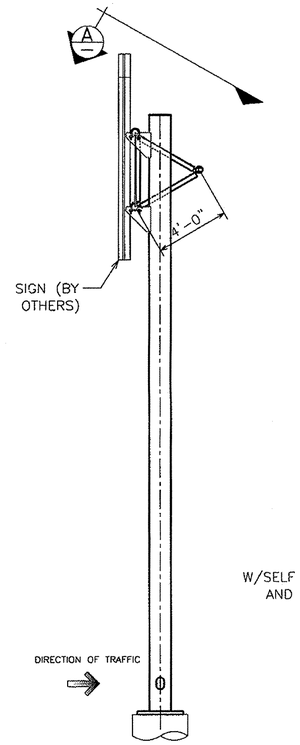


ELEVATION

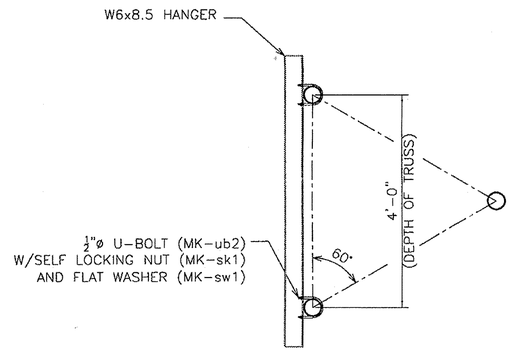
INTERCHANGE 6

LOOKING AT FACE OF SIGN
(OUT OF PLANE CHORDS NOT SHOWN FOR CLARITY)

So. Barre

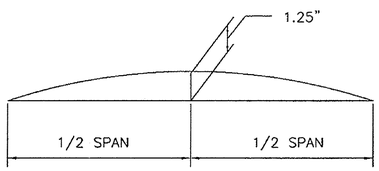


SIDE ELEVATION



SIGN MOUNTING DETAIL

VERTICAL HANGER BEAMS & U-BOLTS INCLUDED



CAMBER DIAGRAM

NOTE:

CAMBER WILL BE ACHIEVED BY SHORTENING LOWER CHORD PIPES BY AN AMOUNT SUCH THAT POSITIVE UPWARD DEFLECTION IS PRODUCED WHEN TRUSSES ARE BROUGHT TOGETHER AT SPLICES.

NOTE:
POST HEIGHT WAS SCALED OF THE CONTRACT DRAWINGS, CONTRACTOR TO VERIFY POST HEIGHT PRIOR TO FABRICATION.

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

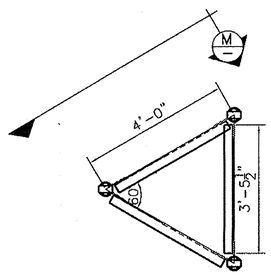
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.138 OH INTERCHANGE #6
PROJECT NUMBER IMG SIGN(19)
ROYALTON - MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

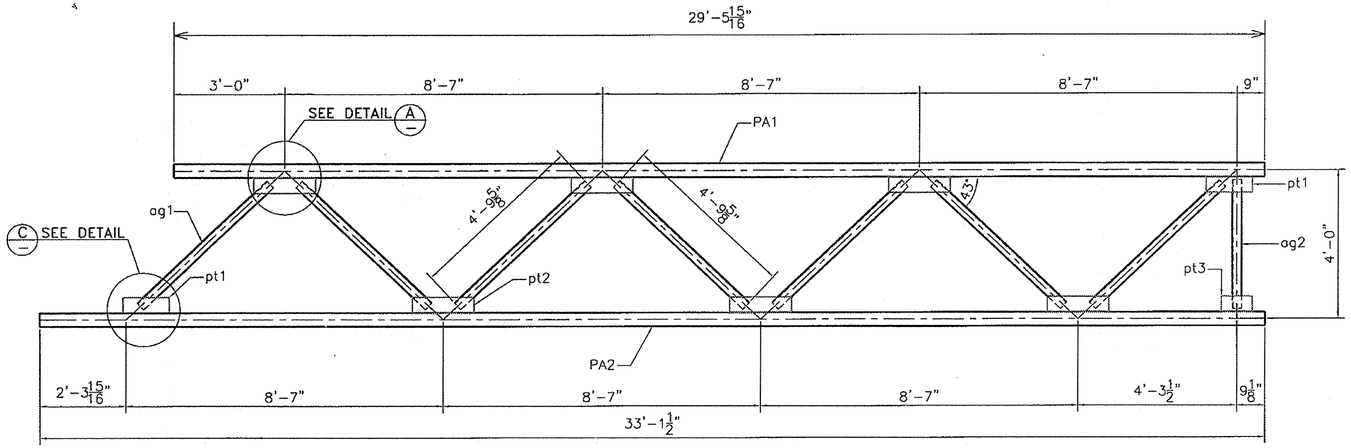
GENERAL CONTRACTOR

SUB CONTRACTOR
CCS Constructors LLC

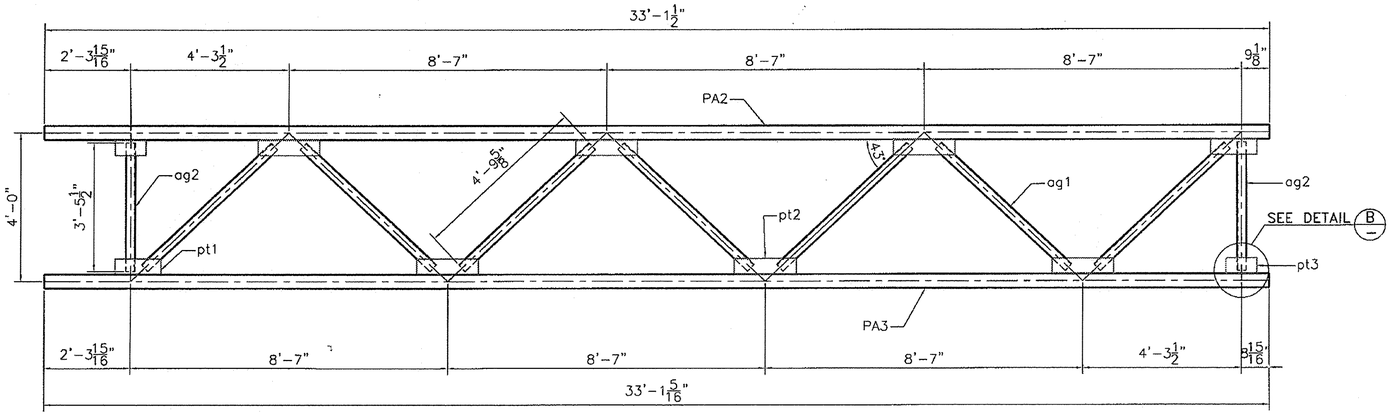
DRAWN MHM
CHECKED
DATE 12/22/09
SCALE N.T.S.
HSC REFERENCE NO. 1729a
SIZE D REVISION 0
SHEET NO. 1 of 6



SIDE VIEW

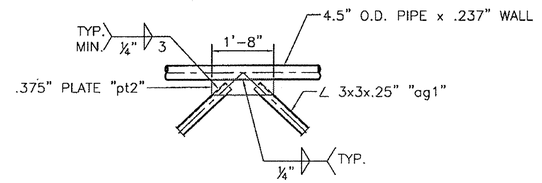


M VIEW



FRONT VIEW

TRUSS TA1



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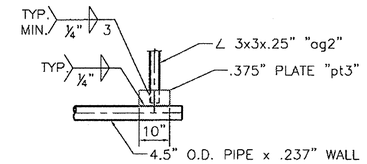
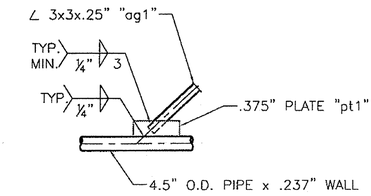


DETAIL "B"



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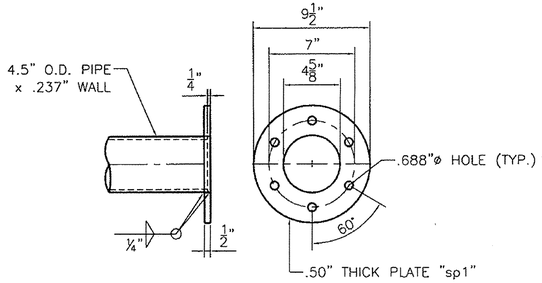


SPLICE DETAIL

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

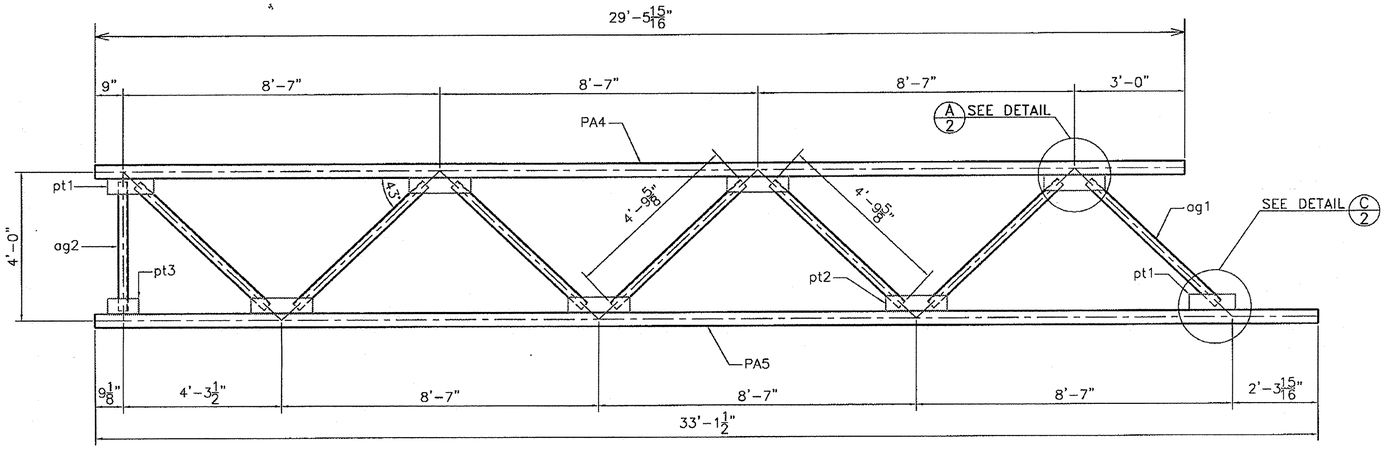
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.138 OH INTERCHANGE #6
PROJECT NUMBER IMG SIGN(19)
ROYALTON – MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

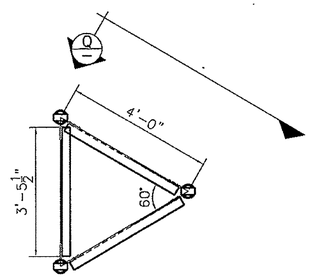
GENERAL CONTRACTOR

SUB CONTRACTOR
CCS Constructors LLC

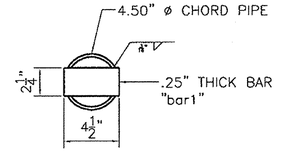
DRAWN	MHM
CHECKED	
DATE	12/22/09
SCALE	NTS
AISC REFERENCE NO.	1729a
SIZE	D
REVISION	0
SHEET NO.	2 of 6



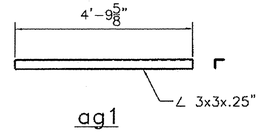
VIEW Q/—



SIDE VIEW



PIPE PLUG DETAIL
"EACH END OF TRUSS CHORD"



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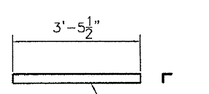
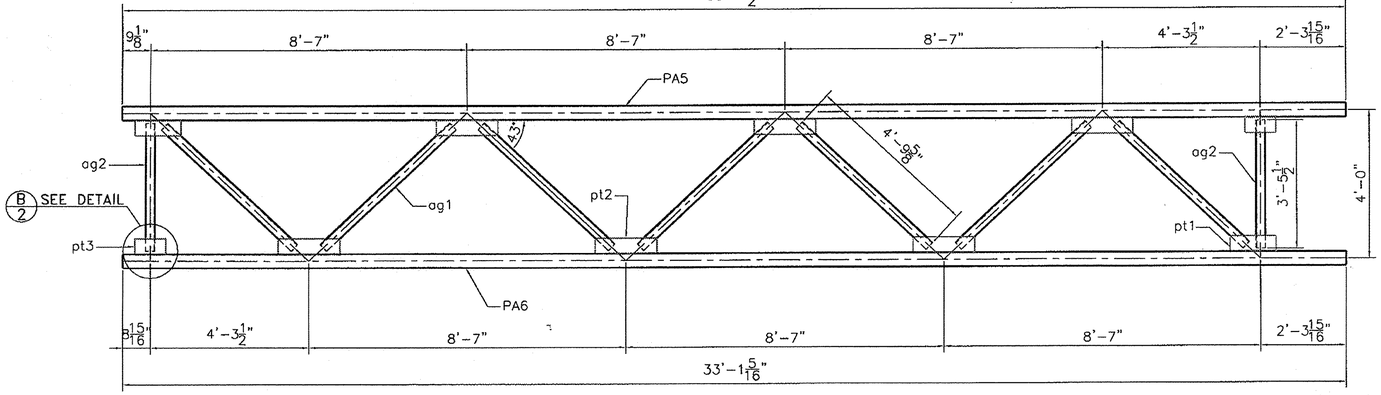


ag2



FRONT VIEW

TRUSS TA2

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.

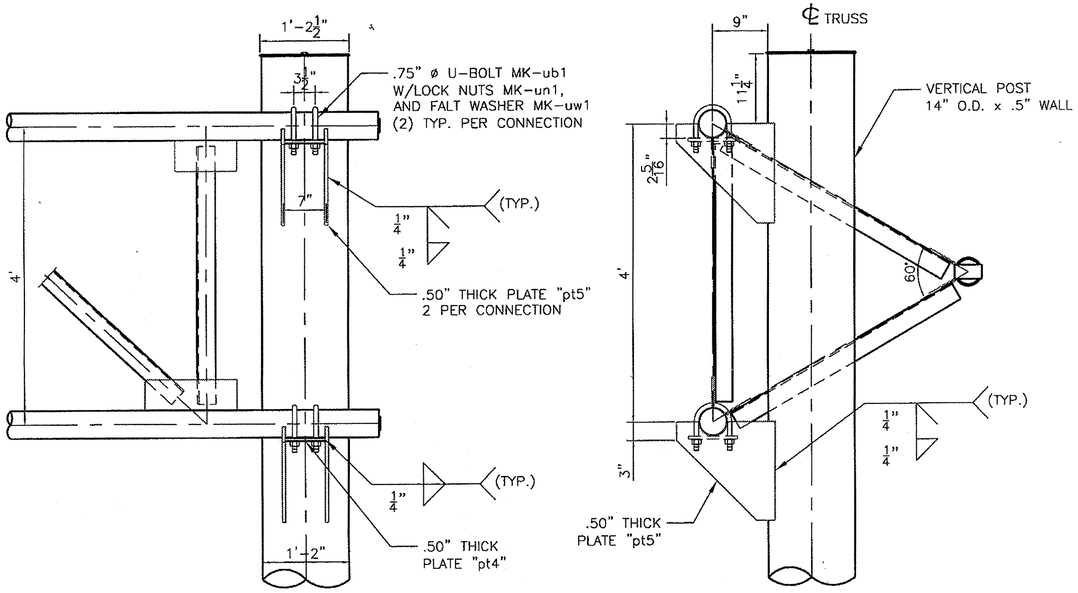
GLASTONBURY, CT

TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.138 OH INTERCHANGE #6
PROJECT NUMBER IMG SIGN(19)
ROYALTON – MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

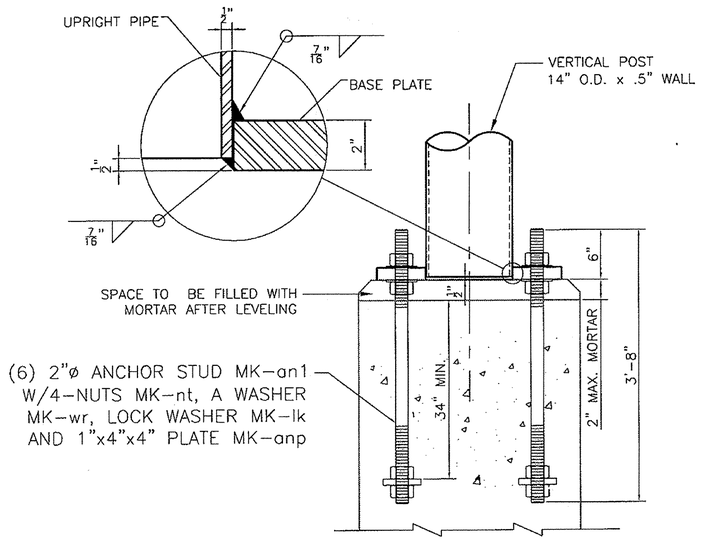
GENERAL CONTRACTOR

SUB CONTRACTOR: CCS Constructors LLC

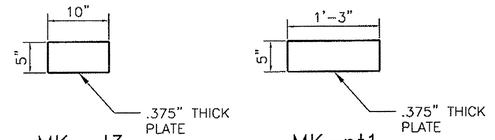
DRAWN	MHM
CHECKED	
DATE	12/22/09
SCALE	NTS
HSC REFERENCE NO.	1729a
SIZE	D
REVISION	0
SHEET NO.	3 of 6

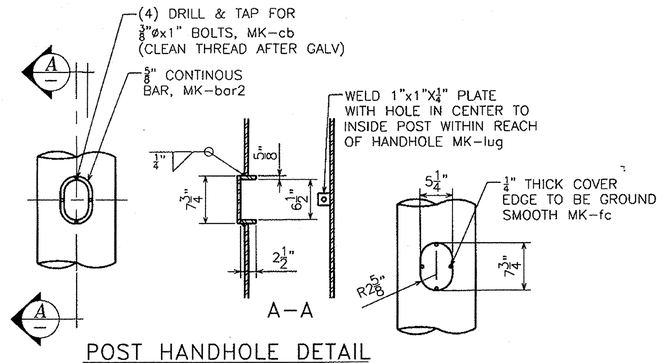


TRUSS CONNECTION DETAIL



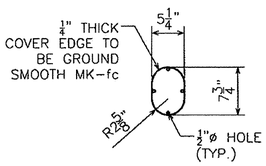
ANCHORAGE ASSEMBLY





POST HANDHOLE DETAIL

PLACE ON SIDE OF POLE
AWAY FROM APPROCHING TRAFFIC



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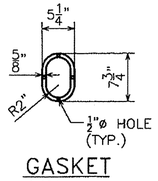

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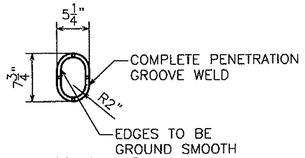

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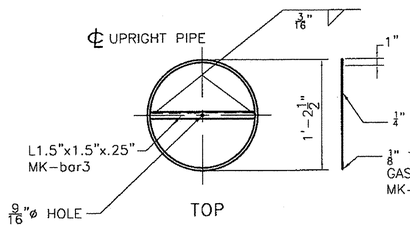

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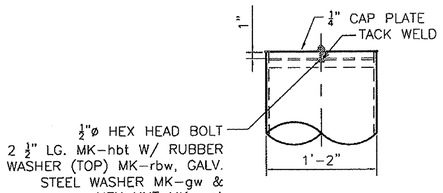
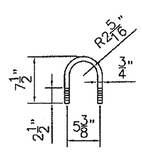


UPRIGHT CAP DETAIL

ASSEMBLE CAP TO POST PRIOR TO
SHIPPING.



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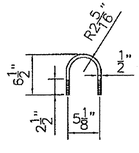

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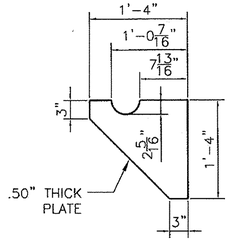
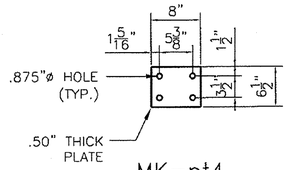


MK-pt5



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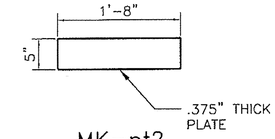


MK-pt2

NOTE:

1. STRUCTURE DESIGNED IN ACCORDANCE WITH LATEST EDITION AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS.
2. ALL HOLES FOR HIGH STRENGTH FASTENERS SHALL BE DRILLED OR SUB-PUNCHED FULL SIZE. SLOTTED HOLES AND/OR VENT OR ACCESS HOLES MAY BE CUT WITH MECHANICALLY GUIDED PLASMA OR MECHANICALLY GUIDED FLAME TORCH.
3. GRIND SHARP CORNERS OF ALL PLATES TO A $\frac{1}{16}$" MIN. RADIUS PRIOR TO GALVANIZING.
4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS D1.1.
5. ALL STEEL PLATES FOR STRUCTURAL COMPONENTS SHALL BE ASTM A709 GR. 50.
6. STEEL PLATES AND SHAPES FOR NON-STRUCTURAL COMPONENTS SHALL BE ASTM A709 GR. 36.
7. STEEL PIPES FOR STRUCTURAL MEMBERS SHALL HAVE MINIMUM YIELD OF 42 ksi AND SHALL CONFORM TO ONE OF THE FOLLOWING GRADES: ASTM A500 GR. B, OR API 5LX42.
8. UNLESS OTHERWISE NOTED, ALL BOLTS FOR STRUCTURAL CONNECTIONS SHALL BE M164 TYPE 1 (A325).
9. GALVANIZED U-BOLTS FOR CONNECTION OF SIGN HANGER BEAMS TO TRUSS SHALL BE ASTM F-1554 GR. 36.
10. ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111 (ASTM A123).
11. ALL HARDWARE, UNLESS OTHERWISE NOTED, SHALL BE HOT-DIPPED GALVANIZED PER AASHTO M232 (ASTM A153).
12. ANCHOR HARDWARE SHALL BE STAINLESS STEEL AND MEET REQUIREMENTS OF VAOT STANDARD SPECIFICATION 714.09.
13. CONCRETE AND REBAR SHOWN IN FOOTING DESIGN TO BE FURNISHED BY OTHERS.
14. FOUNDATION DESIGN BASED ON USE OF 3000 psi MINIMUM CONCRETE.
15. SPACE BETWEEN THE TOP OF CONCRETE AND THE BOTTOM OF STEEL BASE PLATE SHALL BE FILLED WITH TYPE IV MORTAR AFTER LEVELING.
16. BOLTS INSTALLED IN STRUCTURAL CONNECTIONS SHALL BE PROVIDED AND TENSIONED PER APPLICABLE PROVISIONS OF VAOT STANDARD SPECIFICATIONS SECTION 506.
17. SEAL WELD ALL CONNECTIONS WHEN POSSIBLE PRIOR TO GALVANIZING.

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

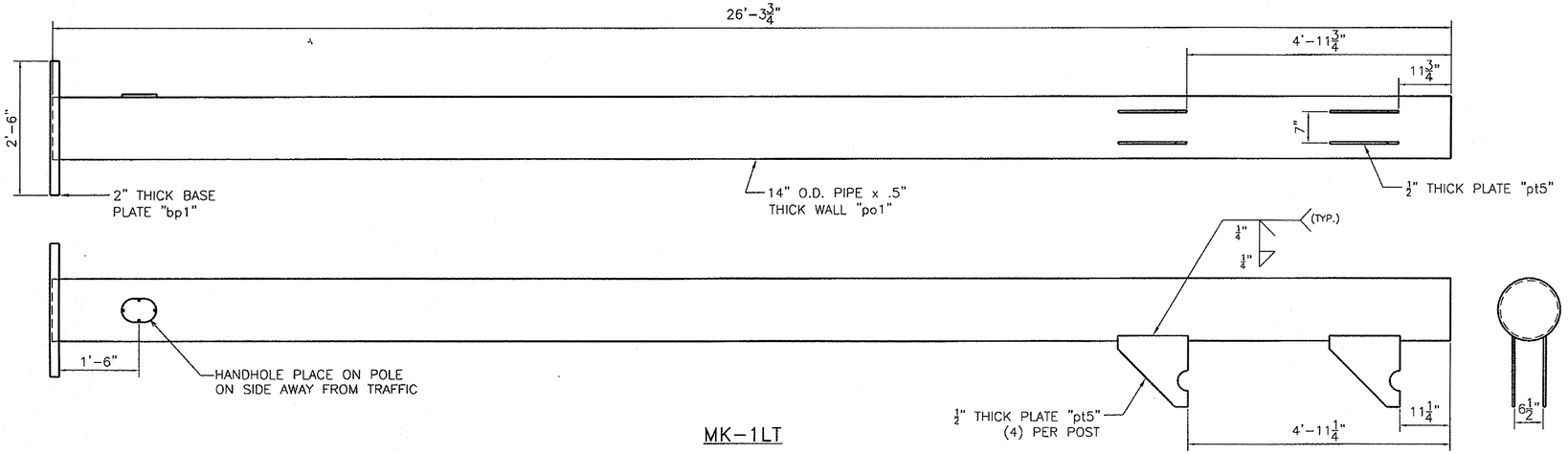
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.138 OH INTERCHANGE #6
PROJECT NUMBER IMG SIGN(19)
ROYALTON - MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

GENERAL CONTRACTOR

SUB CONTRACTOR
CCS Constructors LLC

DRAWN	MHM
CHECKED	
DATE	12/22/09
SCALE	N.T.S.
HSC REFERENCE NO.	1729a
SIZE	D
REVISION	0
SHEET NO.	4 of 6



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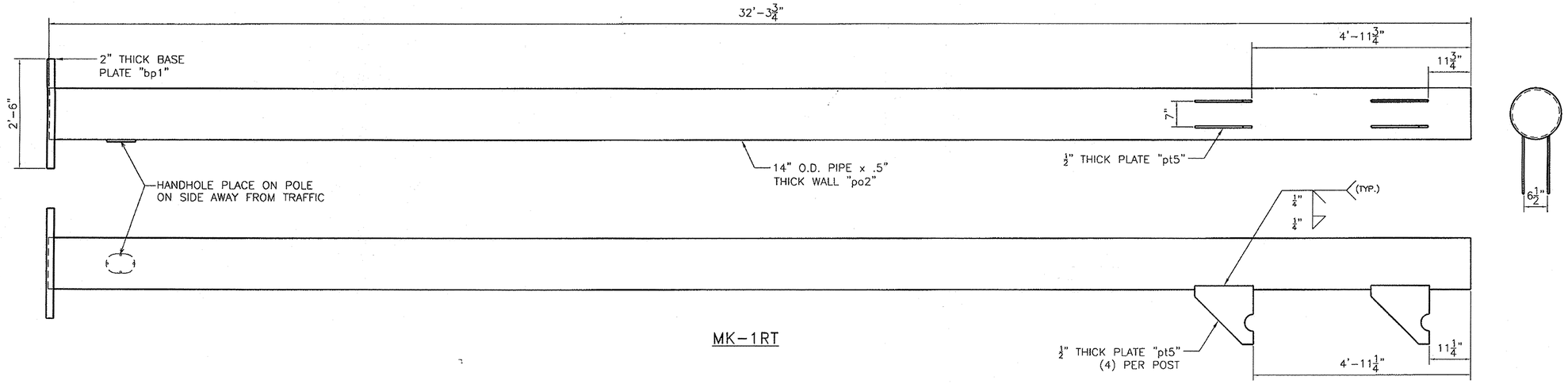

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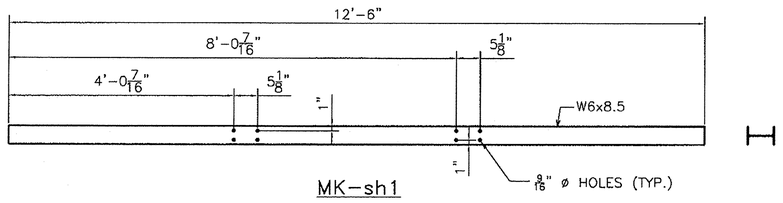

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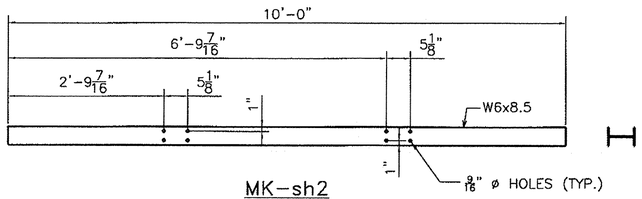

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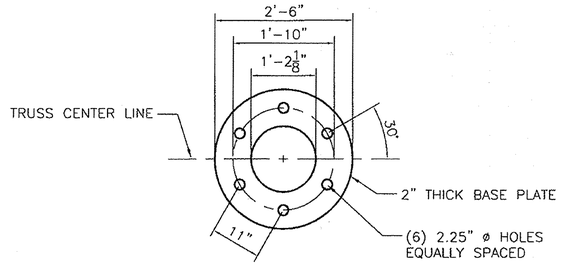

MK-bp1

NOTE:
BASE PLATE SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER (VD.), HEIGHT (VHT.), YIELD STRENGTH (VYS.), GAUGE(VGE.), AND SAME FOR HORIZONTAL MEMBER (HD.), (HYS.), AND (HGE.).

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.138 OH INTERCHANGE #6
PROJECT NUMBER IMG SIGN(19)
ROYALTON – MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

GENERAL CONTRACTOR

SUB CONTRACTOR
CCS Constructors LLC

DRAWN	MHM
CHECKED	
DATE	12/22/09
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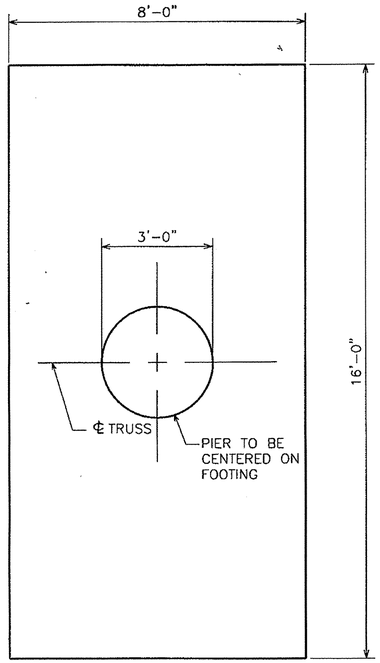
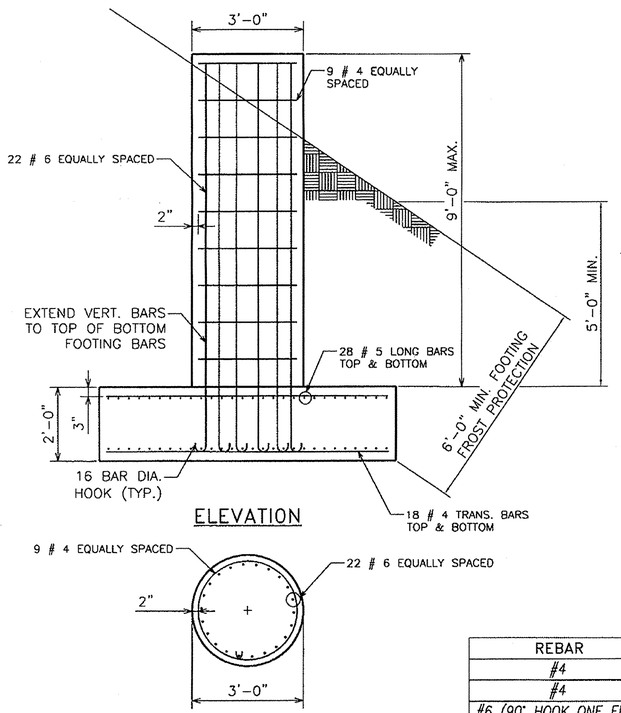
HSC REFERENCE NO.	1729a
SIZE	D
REVISION	0
SHEET NO.	5 of 6



PLAN



ELEVATION

PLAN (STEM)

		INTERCHANGE #6 0.138 LT		
MK	**QTY**	**DESCRIPTION**	**LENGTH**	**SPEC.**
TA1	**1**	**TRUSS SECTION ASSEMBLY**		
PA1	1	4.500" O.D. x .237" WALL CHORD PIPE	29'-5.937"	A500 gr B, API 5LX42
PA2	1	4.500" O.D. x .237" WALL CHORD PIPE	33'-1.500"	A500 gr B, API 5LX42
PA3	1	4.500" O.D. x .237" WALL CHORD PIPE	33'-1.313"	A500 gr B, API 5LX42
ag1	21	L 3x3x.25"	4'-9.625"	A709 Gr 36
ag2	4	L 3x3x.25"	3'-5.500"	A709 Gr 36
pt1	6	0.375" THICK PLATE	5"x1'-3"	A709 Gr 50
pt2	18	0.375" THICK PLATE	5"x1'-8"	A709 Gr 50
pt3	4	0.375" THICK PLATE	5"x10"	A709 Gr 50
bar1	3	0.25" PLUG PLATE	2.25"x4.500"	A709 Gr 36
sp1	3	0.500" SPLICE PLATE	9.500" O.D.	A709 Gr 50
TA2	**1**	**TRUSS SECTION ASSEMBLY**		
PA4	1	4.500" O.D. x .237" WALL CHORD PIPE	29'-5.937"	A500 gr B, API 5LX42
PA5	1	4.500" O.D. x .237" WALL CHORD PIPE	33'-1.500"	A500 gr B, API 5LX42
PA6	1	4.500" O.D. x .237" WALL CHORD PIPE	33'-1.313"	A500 gr B, API 5LX42
ag1	21	L 3x3x.25"	4'-9.625"	A709 Gr 36
ag2	4	L 3x3x.25"	3'-5.500"	A709 Gr 36
pt1	6	0.375" THICK PLATE	5"x1'-3"	A709 Gr 50
pt2	18	0.375" THICK PLATE	5"x1'-8"	A709 Gr 50
pt3	4	0.375" THICK PLATE	5"x10"	A709 Gr 50
bar1	3	0.25" PLUG PLATE	2.25"x4.500"	A36
sp1	3	0.500" SPLICE PLATE	9.500" O.D.	A709 Gr 50
1LT	**1**	**LEFT POST ASSEMBLY**		
po1	1	14" O.D. x .500" WALL PIPE	26'-3.750"	A500 gr B, API 5LX42
cp1	1	0.25" CAP PLATE	1'-2.500" O.D.	A36
gt	1	0.125" GASKET	14.5" O.D.-12.5" I.D.	50 DURO. NEOPRENE
bar3	1	L1.5x1.5x.25"	1'-1"	A36
hb1	1	0.500" DIA. HEX BOLT	2.500"	A307
wnt	1	0.500" DIA. HEX NUT		A563
rbw	1	0.500" DIA. RUBBER WASHER		50 DURO. NEOPRENE
gw	1	0.500" DIA. WASHER		F844
pt4	2	0.500" PLATE	8" x 6.500"	A709 Gr 50
pt5	4	0.500" PLATE	16" x 16"	A709 Gr 50
bar2	1	0.625" x 2.500" BAR	21.500"	A36
ga	1	0.125" GASKET	7.750" x 5.250"	50 DURO. NEOPRENE
fc	1	0.25" COVER PLATE	7.750" x 5.250"	A36
cb	4	0.375" DIA. HEX BOLT	1"	A307
lug	1	0.25" PLATE	1" x 1"	A36
bp1	1	2" BASE PLATE	2'-6" O.D.	A709 Gr 50

1RT	**1**	**RIGHT POST ASSEMBLY**		
po2	1	14" O.D. x .500" WALL PIPE	32'-3.750"	A500 gr B, API 5LX42
cp1	1	0.25" CAP PLATE	1'-2.500" O.D.	A36
gt	1	0.125" GASKET	14.5" O.D.-12.5" I.D.	50 DURO. NEOPRENE
bar3	1	L1.5x1.5x.25"	1'-1"	A36
hb1	1	0.500" DIA. HEX BOLT	2.500"	A307
wnt	1	0.500" DIA. HEX NUT		A563
rbw	1	0.500" DIA. RUBBER WASHER		50 DURO. NEOPRENE
gw	1	0.500" DIA. WASHER		F844
pt4	2	0.500" PLATE	8" x 6.500"	A709 Gr 50
pt5	4	0.500" PLATE	16" x 16"	A709 Gr 50
bar2	1	0.625" x 2.500" BAR	21.500"	A36
ga	1	0.125" GASKET	7.750" x 5.250"	50 DURO. NEOPRENE
fc	1	0.25" COVER PLATE	7.750" x 5.250"	A36
cb	4	0.375" DIA. HEX BOLT	1"	A307
lug	1	0.25" PLATE	1" x 1"	A36
bp1	1	2" BASE PLATE	2'-6" O.D.	A709 Gr 50
		SIGN ASSEMBLY		
sh1	4	W6x8.5	12'-6"	A36
sh2	4	W6x8.5	10'-0"	A36
ub2	32	0.5" DIA. U-BOLT	6.500"	F1554 Gr 36
sk1	64	0.5" DIA. SELF LOCKING NUT		A563 DH
sw1	64	0.5" DIA. FALT WASHER		F436
		HARDWARE		
sbt1	24	0.625" DIA. SPLICE HEX BOLT	2.250"	A325
snt1	24	0.625" DIA. HEX NUT		A563 DH
swr1	48	0.625" DIA. WASHER		F436
ub1	8	0.75" DIA. U-BOLT	7.500"	F1554 Gr 36
un1	16	0.75" DIA. LOCK NUT		A563 DH
uw1	16	0.75" DIA. FALT WASHER		F436
		ANCHOR BOLT		
an1	12	2" DIA. STUD	3'-8"	S/S A276 TY304
nt	48	2" DIA. HEX NUT		S/S A194B TY304
wr	12	2" DIA. WASHER		S/S TY304
lk	12	2" DIA. LOCK WASHER		S/S TY305
anp	12	1" PLATE WASHER	4" x 4"	S/S TY305

REBAR LIST

REBAR	PCS. REQRD.	LENGTH	SPEC.
#4	18	9'-0"	A615 Gr. 60
#4	72	7'-6"	A615 Gr. 60
#6 (90° HOOK ONE END)	44	11'-6"	A615 Gr. 60
#5	112	15'-6"	A615 Gr. 60

REVISIONS		
No.	Remarks	Date
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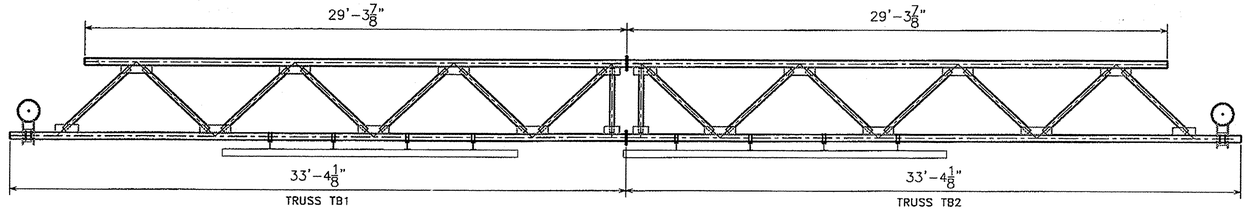
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

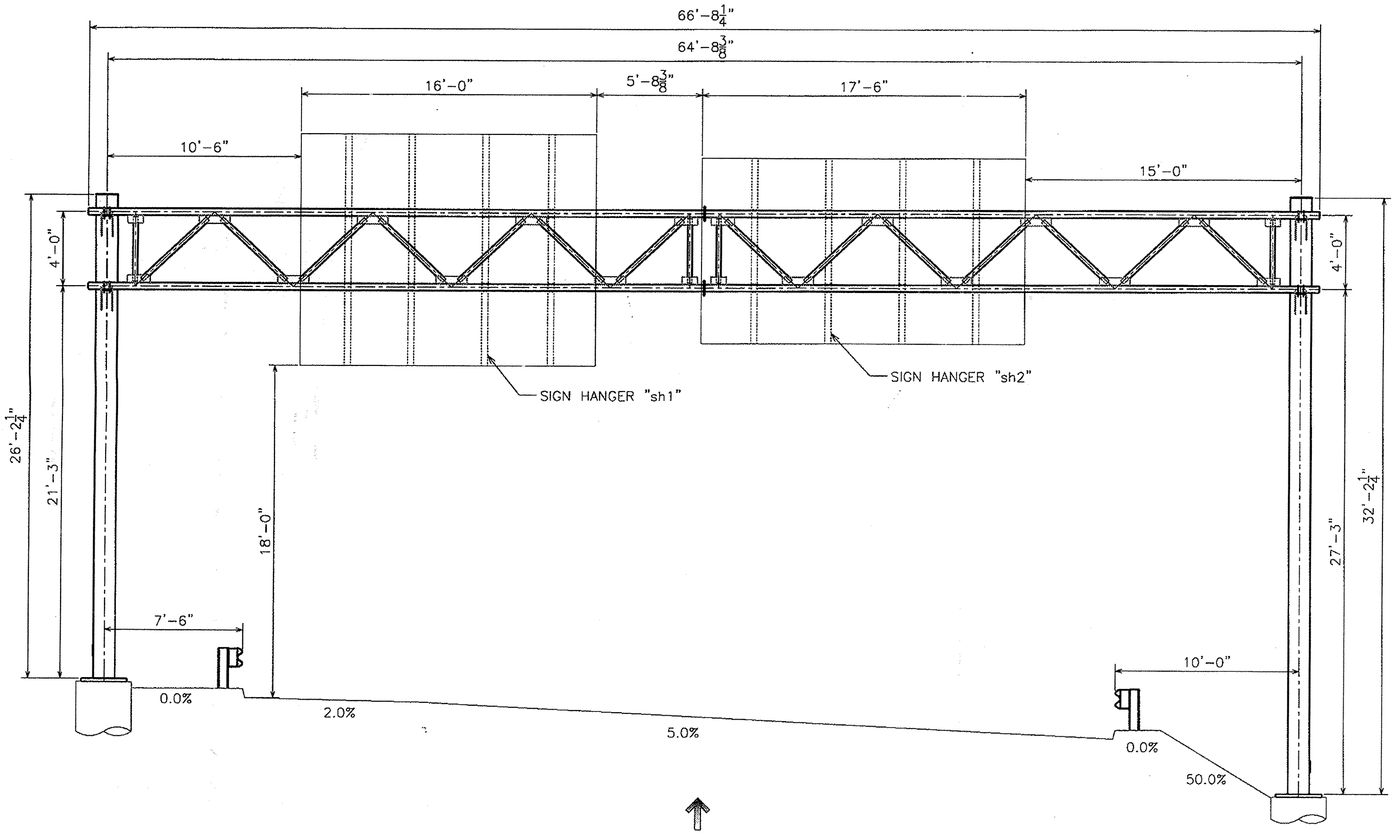
TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.138 OH INTERCHANGE #6
PROJECT NUMBER IMG SIGN(19)
ROYALTON – MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

GENERAL CONTRACTOR
SUB CONTRACTOR CCS Constructors LLC

DRAWN MHM
CHECKED
DATE 12/22/09
SCALE NTS
HSC REFERENCE NO. 1729a
SIZE D REVISION 0
SHEET NO. 6 of 6



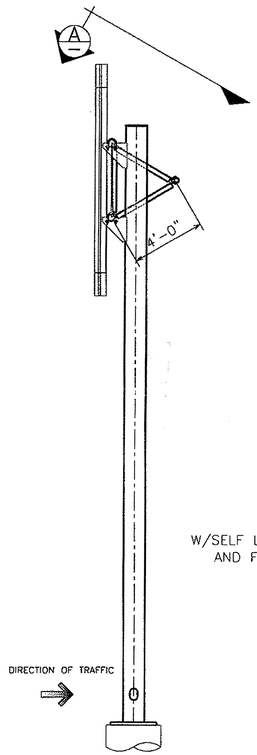
A VIEW



ELEVATION
INTERCHANGE 7

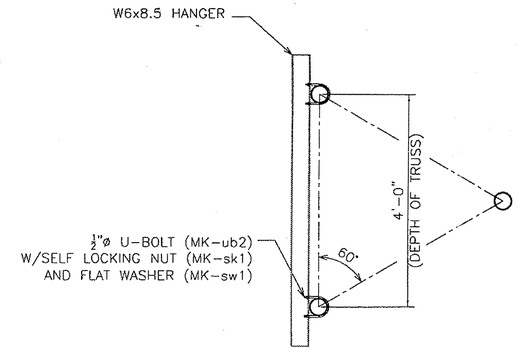
LOOKING AT FACE OF SIGN
(OUT OF PLANE CHORDS NOT SHOWN FOR CLARITY)

Berlin Exit 7

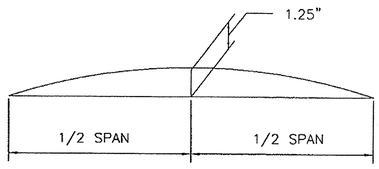


SIDE ELEVATION

NOTE:
POST HEIGHT WAS SCALED OF THE CONTRACT DRAWINGS, CONTRACTOR TO VERIFY POST HEIGHT PRIOR TO FABRICATION.



SIGN MOUNTING DETAIL
VERTICAL HANGER BEAMS & U-BOLTS INCLUDED



CAMBER DIAGRAM

NOTE:

CAMBER WILL BE ACHIEVED BY SHORTENING LOWER CHORD PIPES BY AN AMOUNT SUCH THAT POSITIVE UPWARD DEFLECTION IS PRODUCED WHEN TRUSSES ARE BROUGHT TOGETHER AT SPLICES.

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

CCS Constructors LLC
136 Munson Avenue
Morrisville, VT 05661
Ph: 802-888-7701 F: 802-888-4746

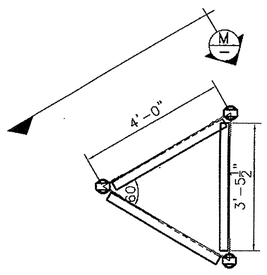
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.115 OH INTERCHANGE #7
PROJECT NUMBER IMG SIGN(19)
ROYALTON – MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

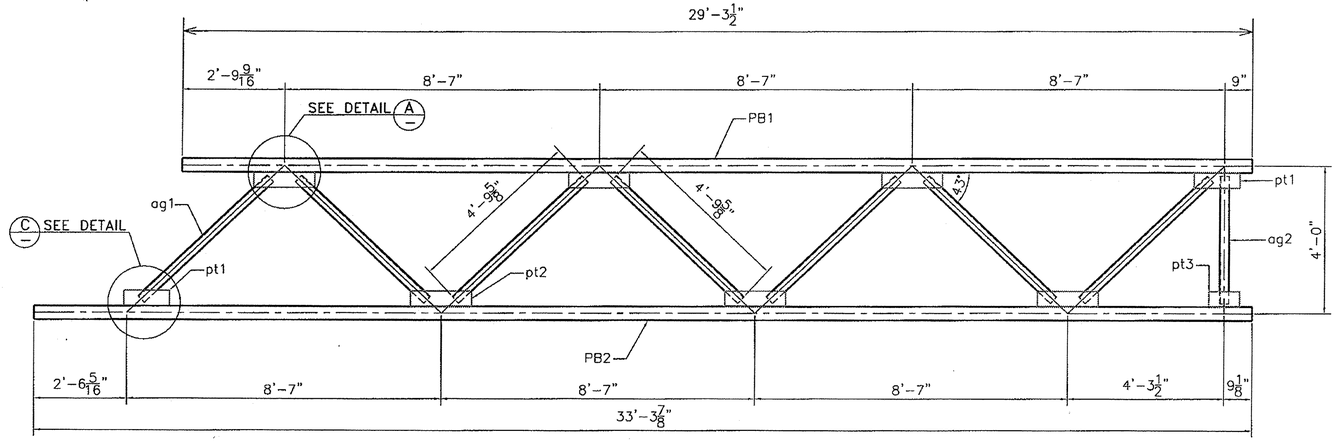
GENERAL CONTRACTOR

SUB CONTRACTOR
CCS Constructors LLC

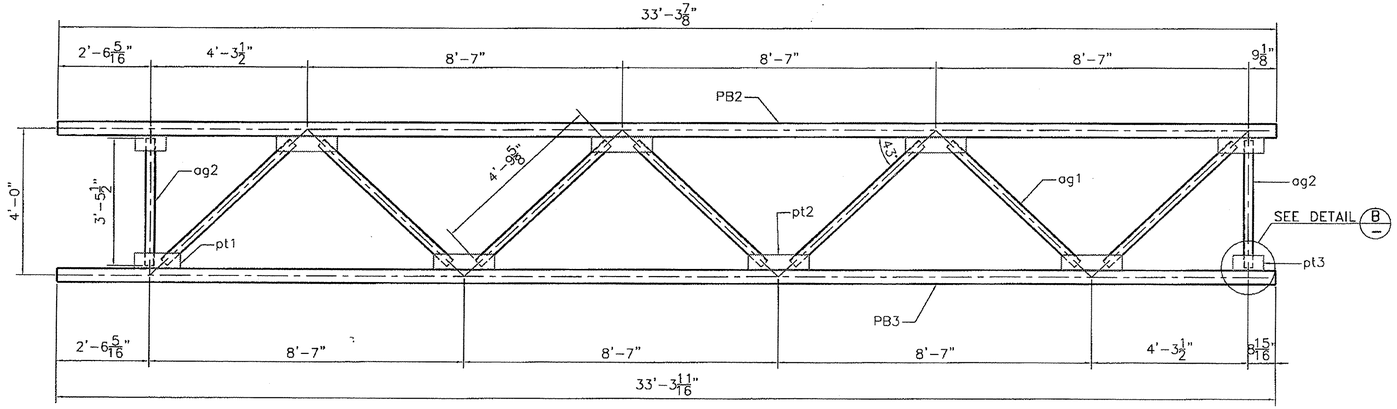
DRAWN	MHM
CHECKED	
DATE	12/22/09
SCALE	N.T.S.
HSC REFERENCE NO.	1729b
SIZE	D
REVISION	0
SHEET NO.	1 of 6



SIDE VIEW

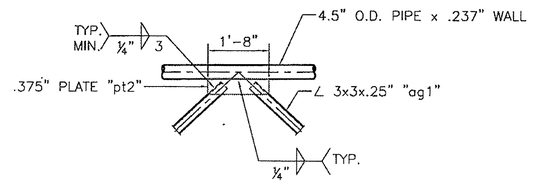


M VIEW

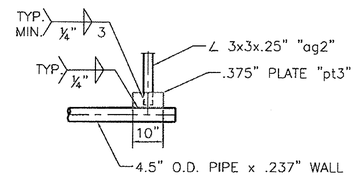


FRONT VIEW

TRUSS TB1



DETAIL "A"



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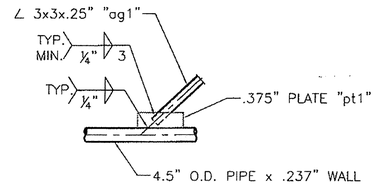

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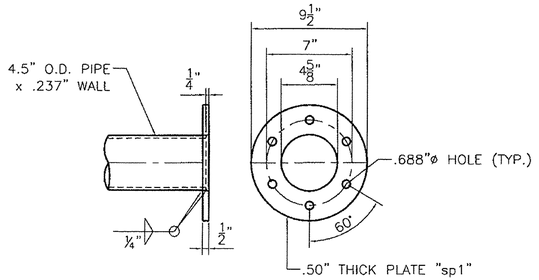

SPLICE DETAIL

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.115 OH INTERCHANGE #7
PROJECT NUMBER IMG SIGN(19)
ROYALTON - MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

GENERAL CONTRACTOR

SUB CONTRACTOR
CCS Constructors LLC

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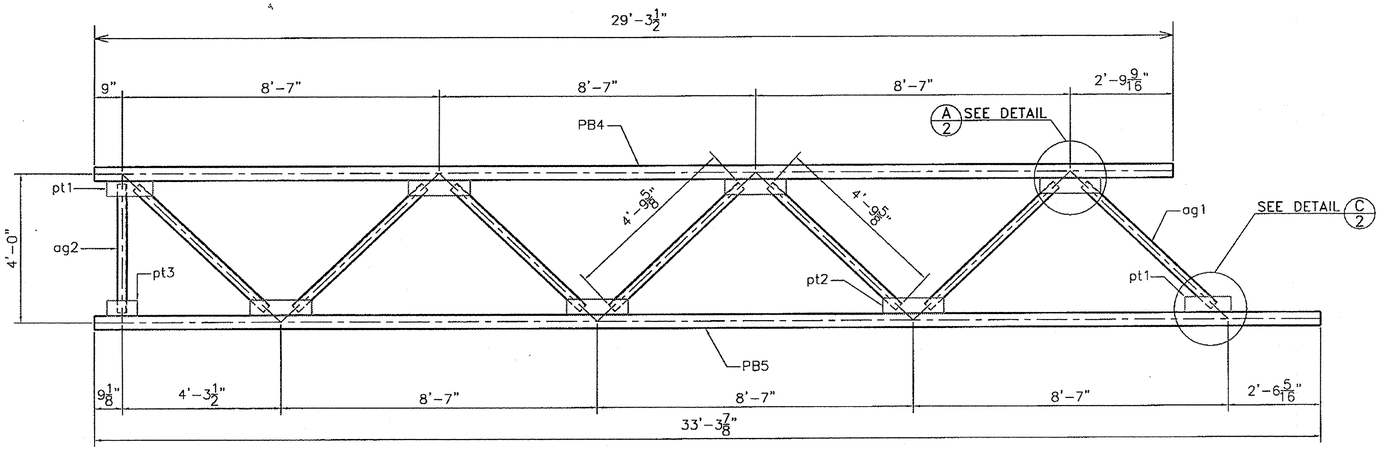
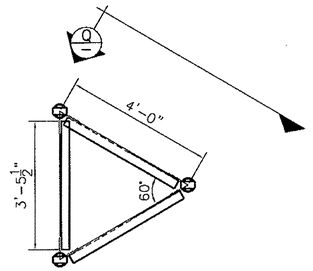
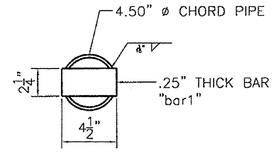
CHECKED	
DATE	12/22/09
SCALE	NTS
MSC REFERENCE NO.	1729b
SIZE	D
REVISION	0
SHEET NO.	2 of 6



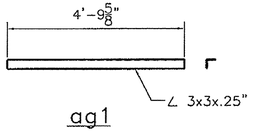
VIEW Q/—



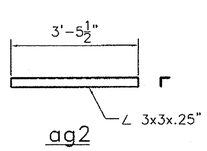
SIDE VIEW



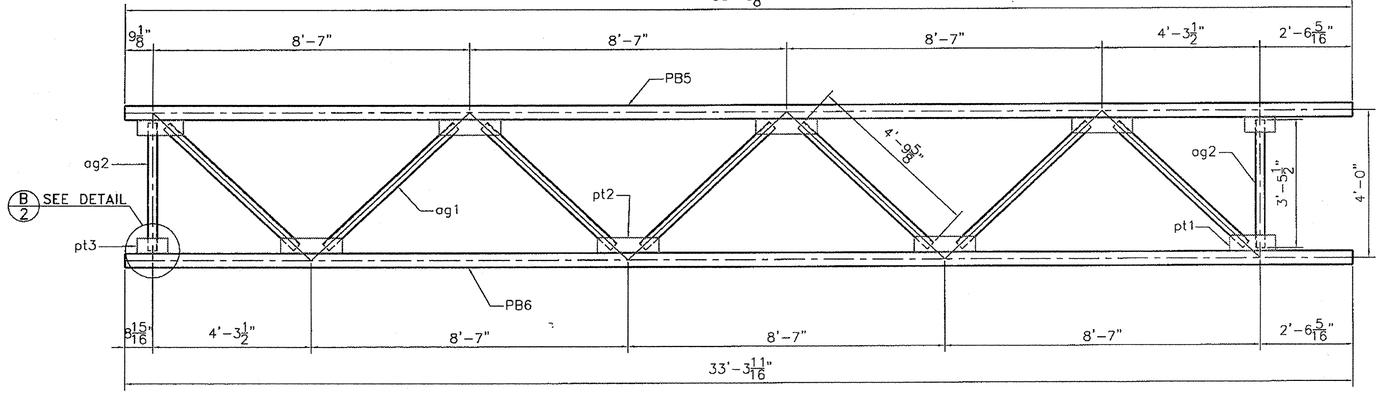
PIPE PLUG DETAIL
"EACH END OF TRUSS CHORD"



ag1



ag2



FRONT VIEW

TRUSS TB2

REVISIONS		
No.	Remarks	Date
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HIGHWAY SAFETY CORP.
GLASTONBURY, CT

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ROYALTON – MIDDLESEX
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GENERAL CONTRACTOR

SUB CONTRACTOR CCS Constructors LLC

DRAWN	MHM
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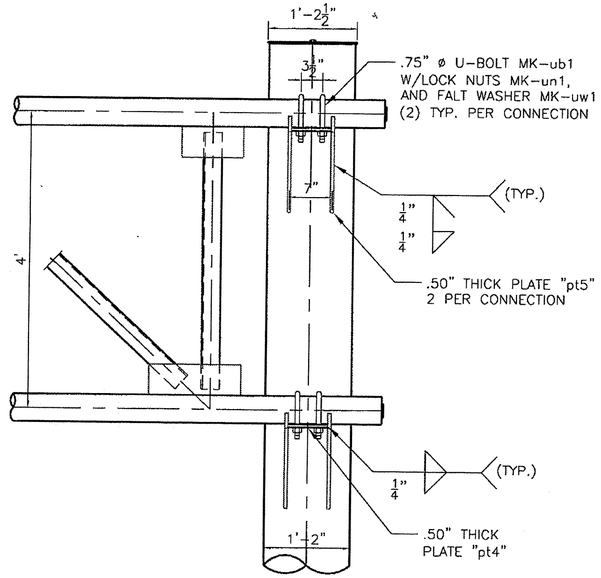
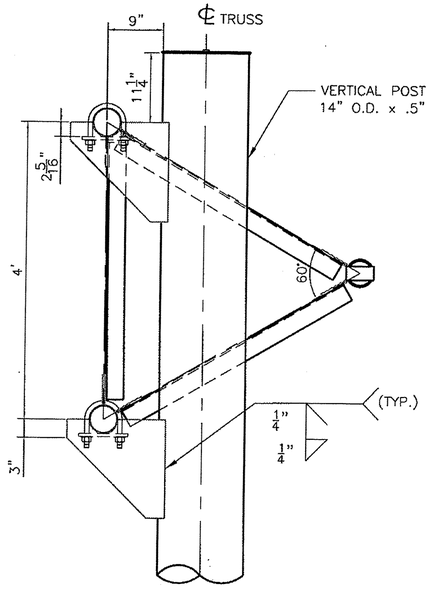
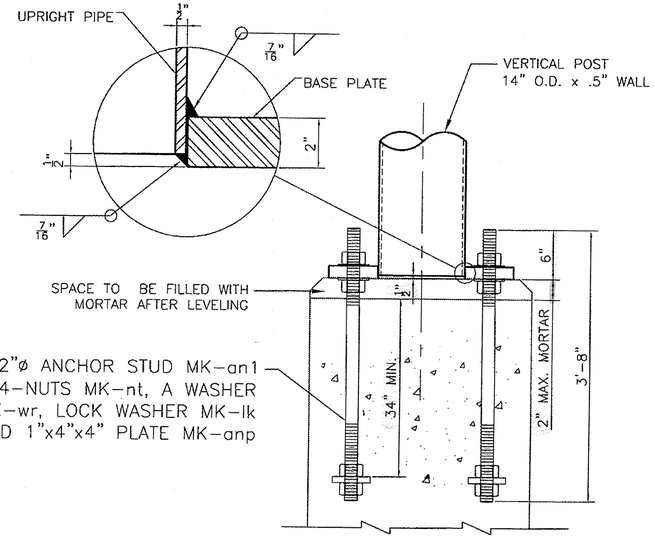
SCALE	NTS
HSC REFERENCE NO.	1729b
SIZE	D
REVISION	0
SHEET NO.	3 of 6

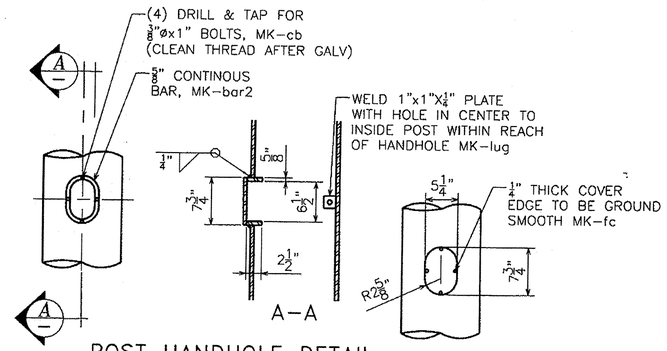




TRUSS CONNECTION DETAIL

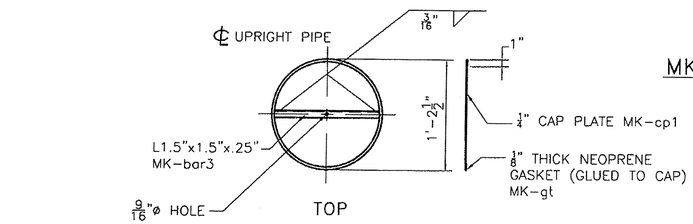


ANCHORAGE ASSEMBLY

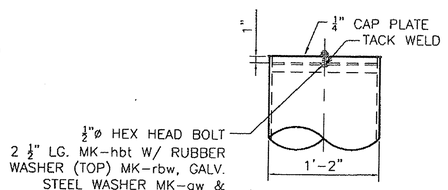


POST HANDHOLE DETAIL

PLACE ON SIDE OF POLE
AWAY FROM APPROCHING TRAFFIC

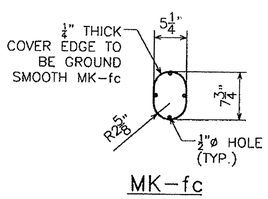


TOP

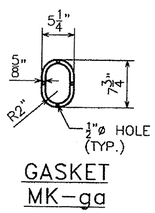


UPRIGHT CAP DETAIL

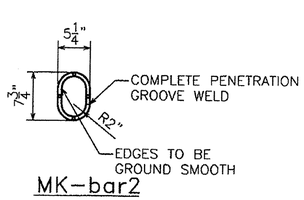
ASSEMBLE CAP TO POST PRIOR TO SHIPPING.



MK-fc



GASKET
MK-ga



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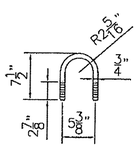

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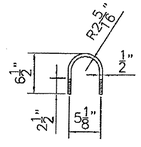

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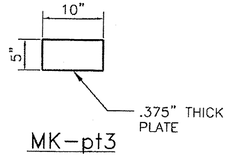

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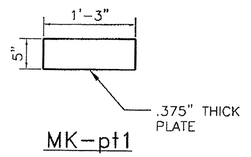

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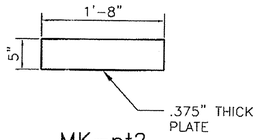

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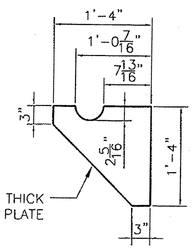

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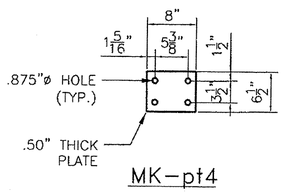

MK-pt4

NOTE:

1. STRUCTURE DESIGNED IN ACCORDANCE WITH LATEST EDITION AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS. DATED 2006 OR ITS LATEST REVISION
2. ALL HOLES FOR HIGH STRENGTH FASTENERS SHALL BE DRILLED OR SUB-PUNCHED FULL SIZE. SLOTTED HOLES AND/OR VENT OR ACCESS HOLES MAY BE CUT WITH MECHANICALLY GUIDED PLASMA OR MECHANICALLY GUIDED FLAME TORCH.
3. GRIND SHARP CORNERS OF ALL PLATES TO A 1/16" MIN. RADIUS PRIOR TO GALVANIZING.
4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS D1.1.
5. ALL STEEL PLATES FOR STRUCTURAL COMPONENTS SHALL BE ASTM A709 GR. 50.
6. STEEL PLATES AND SHAPES FOR NON-STRUCTURAL COMPONENTS SHALL BE ASTM A709 GR. 36.
7. STEEL PIPES FOR STRUCTURAL MEMBERS SHALL HAVE MINIMUM YIELD OF 42 ksi AND SHALL CONFORM TO ONE OF THE FOLLOWING GRADES: ASTM A500 GR. B, OR API 5LX42.
8. UNLESS OTHERWISE NOTED, ALL BOLTS FOR STRUCTURAL CONNECTIONS SHALL BE M164 TYPE 1 (A325).
9. GALVANIZED U-BOLTS FOR CONNECTION OF SIGN HANGER BEAMS TO TRUSS SHALL BE ASTM F-1554 GR. 36.
10. ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111 (ASTM A123).
11. ALL HARDWARE, UNLESS OTHERWISE NOTED, SHALL BE HOT-DIPPED GALVANIZED PER AASHTO M232 (ASTM A153).
12. ANCHOR HARDWARE SHALL BE STAINLESS STEEL AND MEET REQUIREMENTS OF VAOT STANDARD SPECIFICATION 714.09.
13. CONCRETE AND REBAR SHOWN IN FOOTING DESIGN TO BE FURNISHED BY OTHERS.
14. FOUNDATION DESIGN BASED ON USE OF 3000 psi MINIMUM CONCRETE.
15. SPACE BETWEEN THE TOP OF CONCRETE AND THE BOTTOM OF STEEL BASE PLATE SHALL BE FILLED WITH TYPE IV MORTAR AFTER LEVELING.
16. BOLTS INSTALLED IN STRUCTURAL CONNECTIONS SHALL BE PROVIDED AND TENSIONED PER APPLICABLE PROVISIONS OF VAOT STANDARD SPECIFICATIONS SECTION 506.
17. SEAL WELD ALL CONNECTIONS WHEN POSSIBLE PRIOR TO GALVANIZING.

REVISIONS		
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HIGHWAY SAFETY CORP.
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CCS Constructors LLC

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DATE	12/22/09
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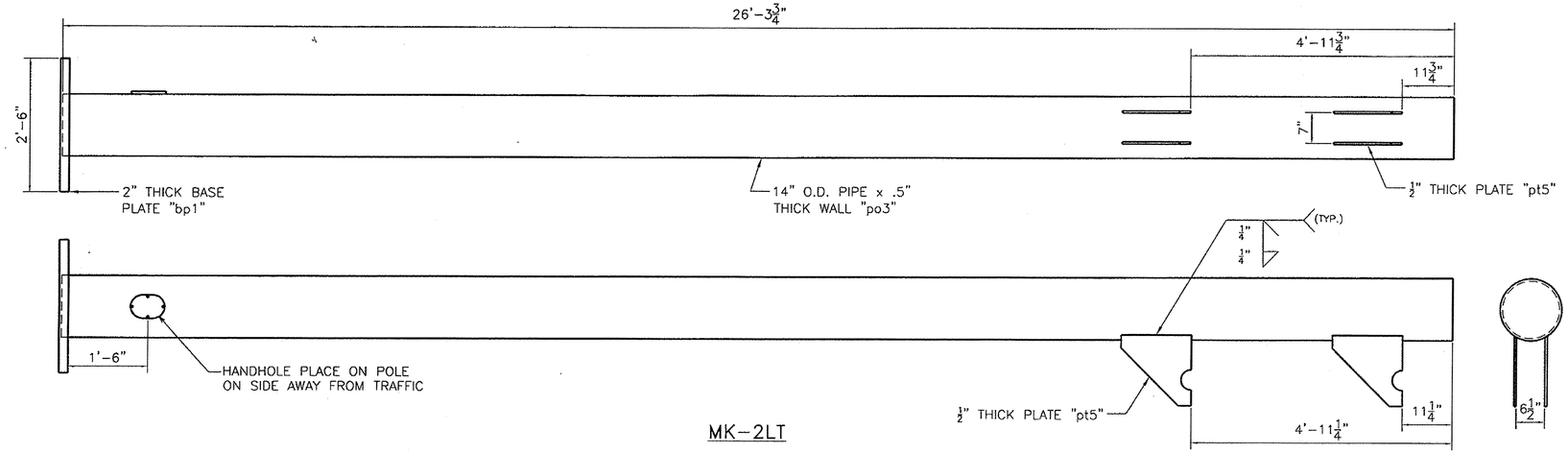
HSC REFERENCE NO.	1729b
SIZE	D
REVISION	0
SHEET NO.	4 of 6



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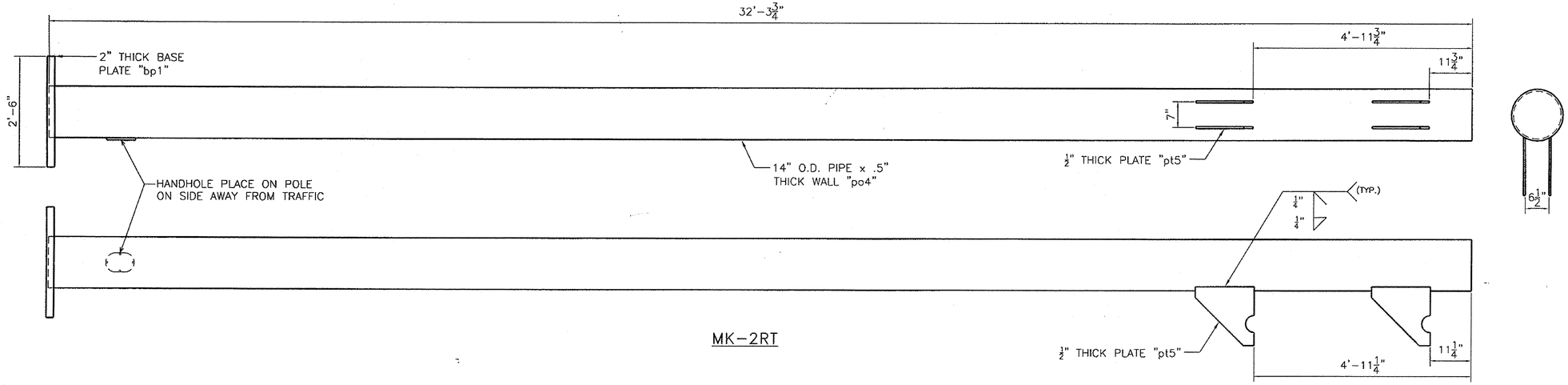
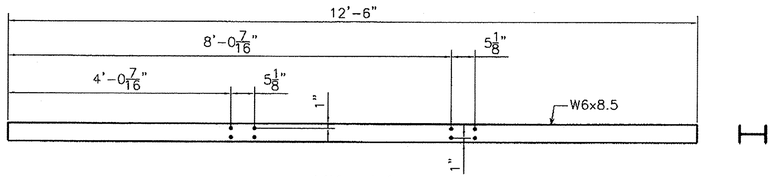


MK-2RT



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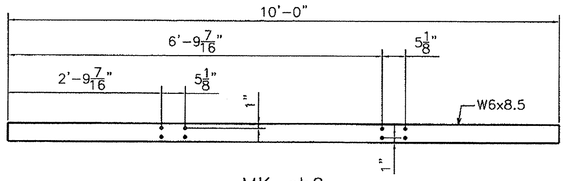
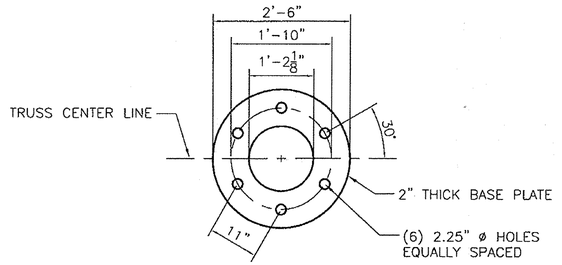


MK-sh2



MK-bp1

NOTE:
BASE PLATE SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER (VD.), HEIGHT (VHT.), YIELD STRENGTH (VYS.), GAUGE(VGE.), AND SAME FOR HORIZONTAL MEMBER (HD.), (HYS.), AND (HGE.).

REVISIONS		
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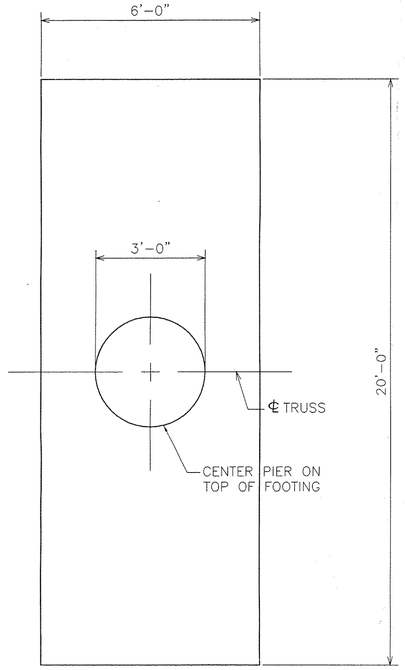
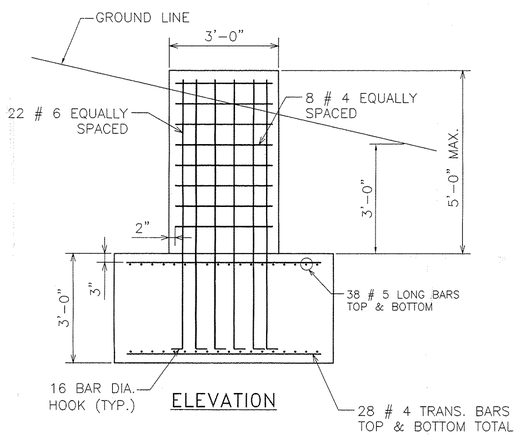
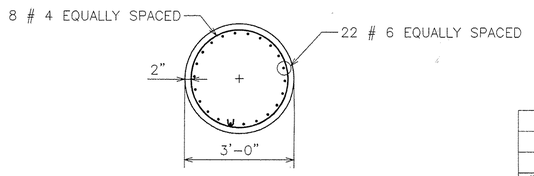
SIZE	D
REVISION	0
SHEET NO.	5 of 6



PLAN



ELEVATION



PLAN (STEM)

		INTERCHANGE #7 0.115 LT		
MK	**QTY**	**DESCRIPTION**	**LENGTH**	**SPEC.**
TB1	**1**	**TRUSS SECTION ASSEMBLY**		
PB1	1	4.500" O.D. x .237" WALL CHORD PIPE	29'-3.500"	A500 gr B, API 5LX42
PB2	1	4.500" O.D. x .237" WALL CHORD PIPE	33'-3.875"	A500 gr B, API 5LX42
PB3	1	4.500" O.D. x .237" WALL CHORD PIPE	33'-3.688"	A500 gr B, API 5LX42
ag1	21	L 3x3x.25"	4'-9.625"	A709 Gr 36
ag2	4	L 3x3x.25"	3'-5.500"	A709 Gr 36
pt1	6	0.375" THICK PLATE	5"x1'-3"	A709 Gr 50
pt2	18	0.375" THICK PLATE	5"x1'-8"	A709 Gr 50
pt3	4	0.375" THICK PLATE	5"x10"	A709 Gr 50
bar1	3	0.25" PLUG PLATE	2.25"x4.500"	A709 Gr 36
sp1	3	0.500" SPLICE PLATE	9.500" O.D.	A709 Gr 50
TB2	**1**	**TRUSS SECTION ASSEMBLY**		
PB4	1	4.500" O.D. x .237" WALL CHORD PIPE	29'-3.500"	A500 gr B, API 5LX42
PB5	1	4.500" O.D. x .237" WALL CHORD PIPE	33'-3.875"	A500 gr B, API 5LX42
PB6	1	4.500" O.D. x .237" WALL CHORD PIPE	33'-3.688"	A500 gr B, API 5LX42
ag1	21	L 3x3x.25"	4'-9.625"	A709 Gr 36
ag2	4	L 3x3x.25"	3'-5.500"	A709 Gr 36
pt1	6	0.375" THICK PLATE	5"x1'-3"	A709 Gr 50
pt2	18	0.375" THICK PLATE	5"x1'-8"	A709 Gr 50
pt3	4	0.375" THICK PLATE	5"x10"	A709 Gr 50
bar1	3	0.25" PLUG PLATE	2.25"x4.500"	A36
sp1	3	0.500" SPLICE PLATE	9.500" O.D.	A709 Gr 50
2LT	**1**	**LEFT POST ASSEMBLY**		
po3	1	14" O.D. x .500" WALL PIPE	26'-3.750"	A500 gr B, API 5LX42
cp1	1	0.25" CAP PLATE	1'-2.500" O.D.	A36
gt	1	0.125" GASKET	14.5" O.D.-12.5" I.D.	50 DURO. NEOPRENE
bar3	1	L1.5x1.5x.25"	1'-1"	A36
hb1	1	0.500" DIA. HEX BOLT	2.500"	A307
wnt	1	0.500" DIA. HEX NUT		A563
rbw	1	0.500" DIA. RUBBER WASHER		50 DURO. NEOPRENE
gw	1	0.500" DIA. WASHER		F844
pt4	2	0.500" PLATE	8" x 6.500"	A709 Gr 50
pt5	4	0.500" PLATE	16" x 16"	A709 Gr 50
bar2	1	0.625" x 2.500" BAR	21.500"	A36
ga	1	0.125" GASKET	7.750" x 5.250"	50 DURO. NEOPRENE
fc	1	0.25" COVER PLATE	7.750" x 5.250"	A36
cb	4	0.375" DIA. HEX BOLT	1"	A307
lug	1	0.25" PLATE	1" x 1"	A36
bp1	1	2" BASE PLATE	2'-6" O.D.	A709 Gr 50

2RT	**1**	**RIGHT POST ASSEMBLY**		
po4	1	14" O.D. x .500" WALL PIPE	32'-3.750"	A500 gr B, API 5LX42
cp1	1	0.25" CAP PLATE	1'-2.500" O.D.	A36
gt	1	0.125" GASKET	14.5" O.D.-12.5" I.D.	50 DURO. NEOPRENE
bar3	1	L1.5x1.5x.25"	1'-1"	A36
hb1	1	0.500" DIA. HEX BOLT	2.500"	A307
wnt	1	0.500" DIA. HEX NUT		A563
rbw	1	0.500" DIA. RUBBER WASHER		50 DURO. NEOPRENE
gw	1	0.500" DIA. WASHER		F844
pt4	2	0.500" PLATE	8" x 6.500"	A709 Gr 50
pt5	4	0.500" PLATE	16" x 16"	A709 Gr 50
bar2	1	0.625" x 2.500" BAR	21.500"	A36
ga	1	0.125" GASKET	7.750" x 5.250"	50 DURO. NEOPRENE
fc	1	0.25" COVER PLATE	7.750" x 5.250"	A36
cb	4	0.375" DIA. HEX BOLT	1"	A307
lug	1	0.25" PLATE	1" x 1"	A36
bp1	1	2" BASE PLATE	2'-6" O.D.	A709 Gr 50
		SIGN ASSEMBLY		
sh1	4	W6x8.5	12'-6"	A36
sh2	4	W6x8.5	10'-0"	A36
ub2	32	0.625" DIA. U-BOLT	7"	F1554 Gr 36
sk1	64	0.625" DIA. SELF LOCKING NUT		A563 DH
sw1	64	0.625" DIA. FALT WASHER		F436
		HARDWARE		
sbt1	24	0.625" DIA. SPLICE HEX BOLT	2.250"	A325
snt1	24	0.625" DIA. HEX NUT		A563 DH
swr1	48	0.625" DIA. WASHER		F436
ub1	8	0.75" DIA. U-BOLT	7.500"	F1554 Gr 36
un1	16	0.75" DIA. LOCK NUT		A563 DH
uw1	16	0.75" DIA. FALT WASHER		F436
		ANCHOR BOLT		
an1	12	2" DIA. STUD	3'-8"	S/S A276 TY304
nt	48	2" DIA. HEX NUT		S/S A194B TY304
wr	12	2" DIA. WASHER		S/S TY304
lk	12	2" DIA. LOCK WASHER		S/S TY305
anp	12	1" PLATE WASHER	4" x 4"	S/S TY305

REBAR LIST

REBAR	PCS. REQRD.	LENGTH	SPEC.
#4	16	9'-0"	A615 Gr. 60
#4	56	5'-6"	A615 Gr. 60
#6 (90° HOOK ONE END)	44	8'-6"	A615 Gr. 60
#5	76	19'-6"	A615 Gr. 60

REVISIONS

No.	Remarks	Date
0	Initial submittal	
1	MK-ub2	10/3/10
2	Footing design	5/26/10

6/9/10

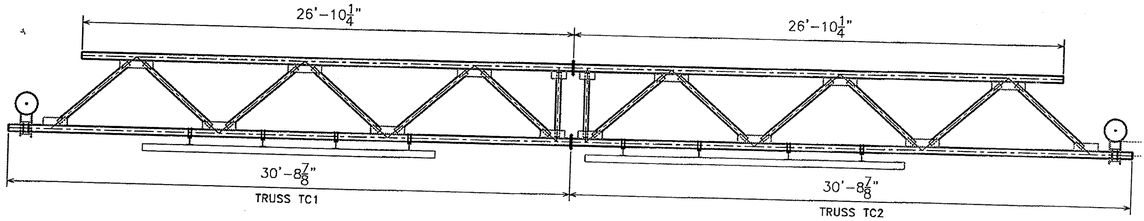
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.115 OH INTERCHANGE #7
PROJECT NUMBER IMG SIGN(19)
ROYALTON – MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

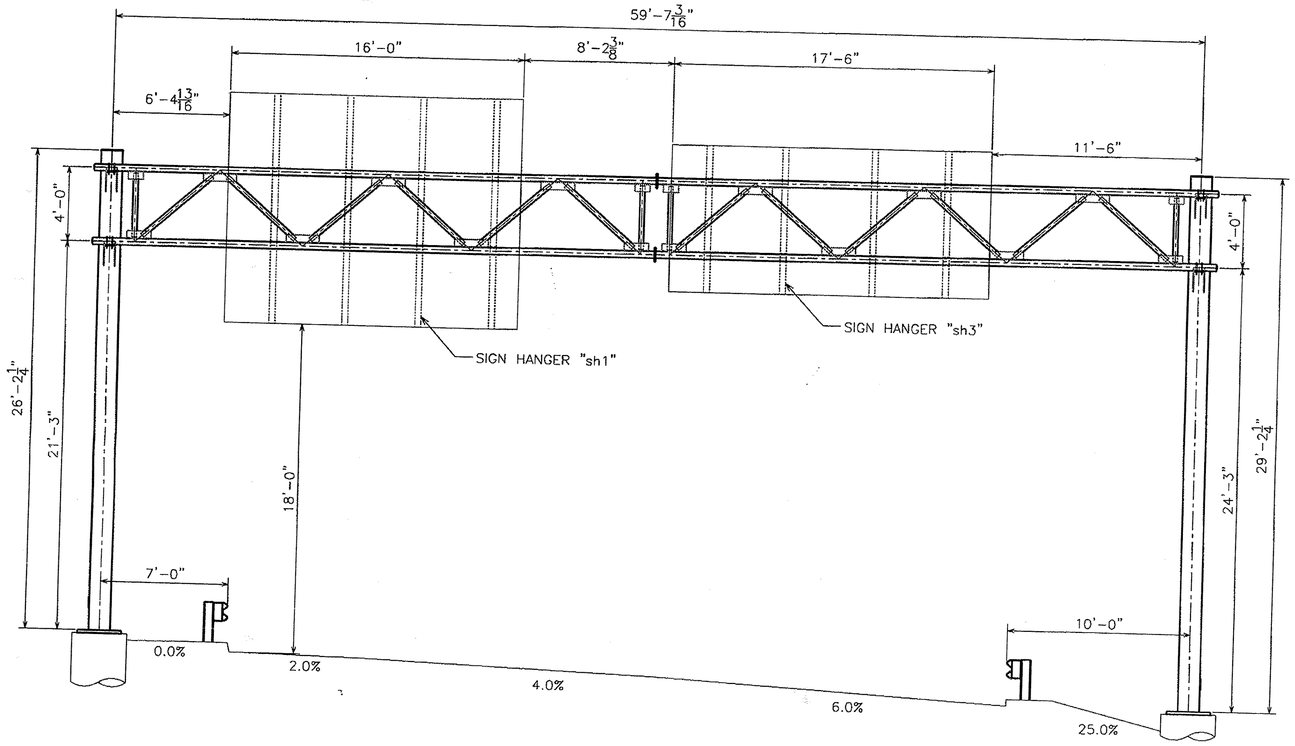
GENERAL CONTRACTOR

SUB CONTRACTOR
CCS Constructors LLC

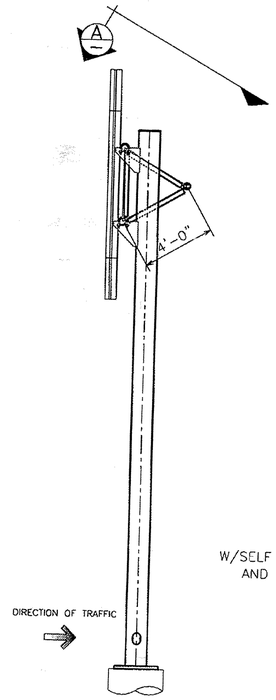
DRAWN	MHM
CHECKED	
DATE	12/22/09
SCALE	NTS
HSC REFERENCE NO.	1729b
SIZE	D
REVISION	0
SHEET NO.	6 of 6



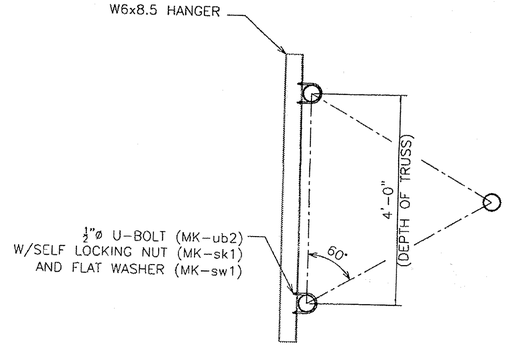
A VIEW



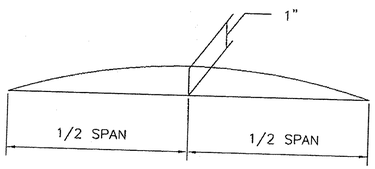
ELEVATION
INTERCHANGE 8
LOOKING AT FACE OF SIGN
(OUT OF PLANE CHORDS NOT SHOWN FOR CLARITY)
Montpelier Ex. T 8



SIDE ELEVATION



SIGN MOUNTING DETAIL
VERTICAL HANGER BEAMS & U-BOLTS INCLUDED



CAMBER DIAGRAM

NOTE:

CAMBER WILL BE ACHIEVED BY SHORTENING LOWER CHORD PIPES BY AN AMOUNT SUCH THAT POSITIVE UPWARD DEFLECTION IS PRODUCED WHEN TRUSSES ARE BROUGHT TOGETHER AT SPLICES.

NOTE:
POST HEIGHT WAS SCALED OF THE CONTRACT DRAWINGS, CONTRACTOR TO VERIFY POST HEIGHT PRIOR TO FABRICATION.

CCS Constructors LLC
138 Munson Avenue
Morrisville, VT 05661
Ph: 802-888-7701 f: 802-888-4746

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

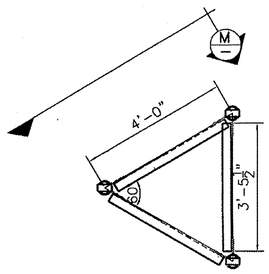
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.102 OH INTERCHANGE #8
PROJECT NUMBER IMG SIGN(19)
ROYALTON – MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

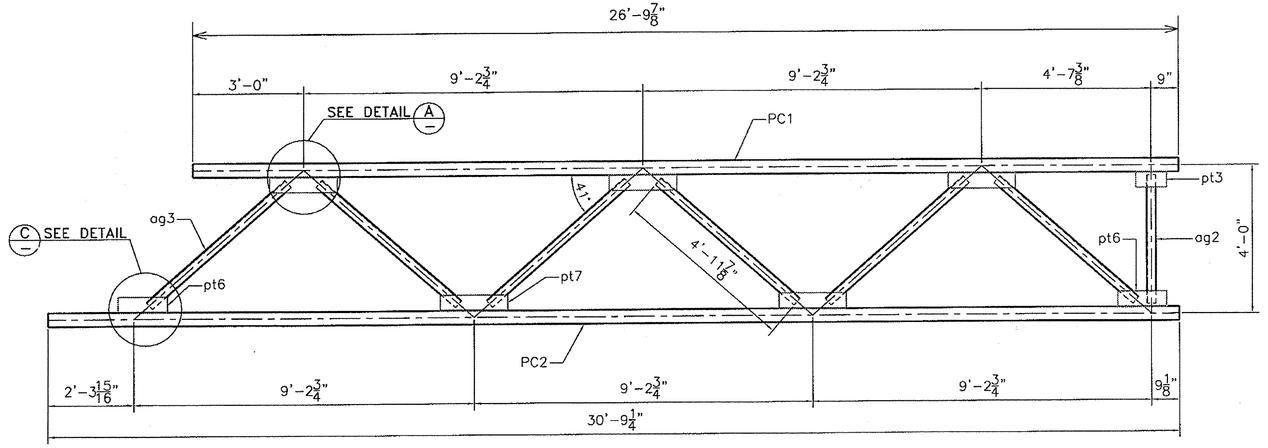
GENERAL CONTRACTOR

SUB CONTRACTOR
CCS Constructors LLC

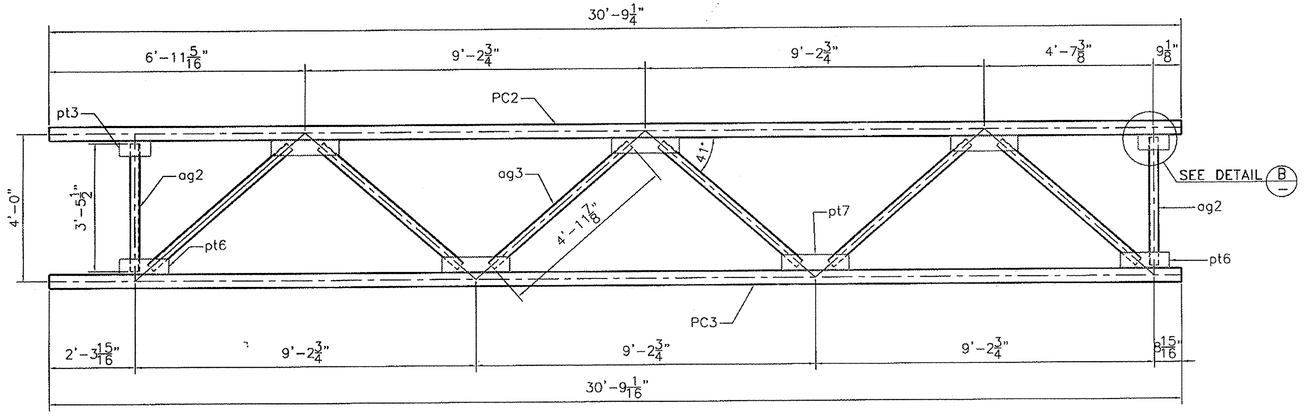
DRAWN	MHM
CHECKED	
DATE	12/22/09
SCALE	N.T.S.
HSC REFERENCE NO.	1729c
SIZE	D
REVISION	0
SHEET NO.	1 of 6



SIDE VIEW

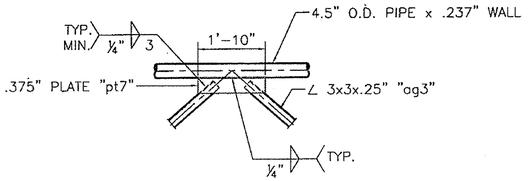


M VIEW



FRONT VIEW

TRUSS TC1



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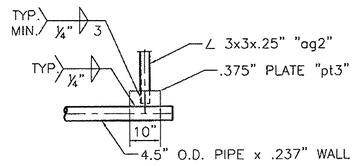

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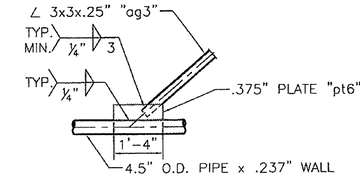

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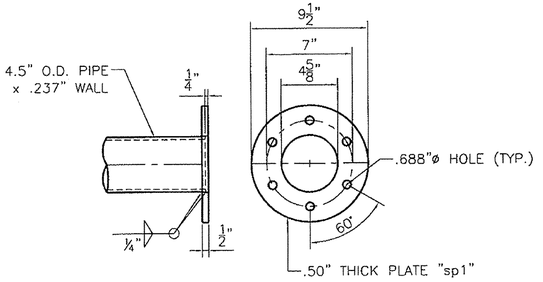


SPLICE DETAIL

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

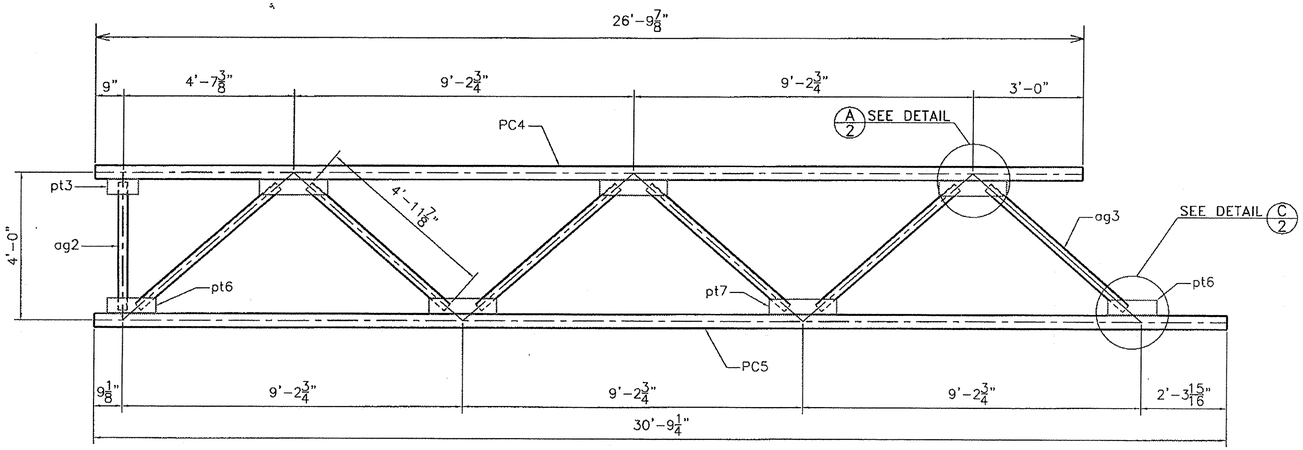
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.102 OH INTERCHANGE #8
PROJECT NUMBER IMG SIGN(19)
ROYALTON – MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

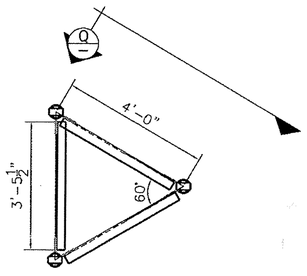
GENERAL CONTRACTOR

SUB CONTRACTOR: CCS Constructors LLC

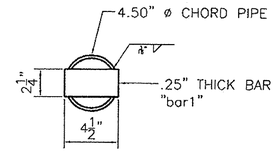
DRAWN	MHM
CHECKED	
DATE	12/22/09
SCALE	NTS
HSC REFERENCE NO.	1729c
SIZE	D
REVISION	0
SHEET NO.	2 of 6



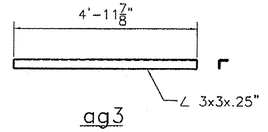
VIEW Q/–



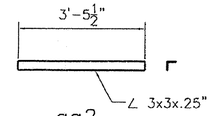
SIDE VIEW



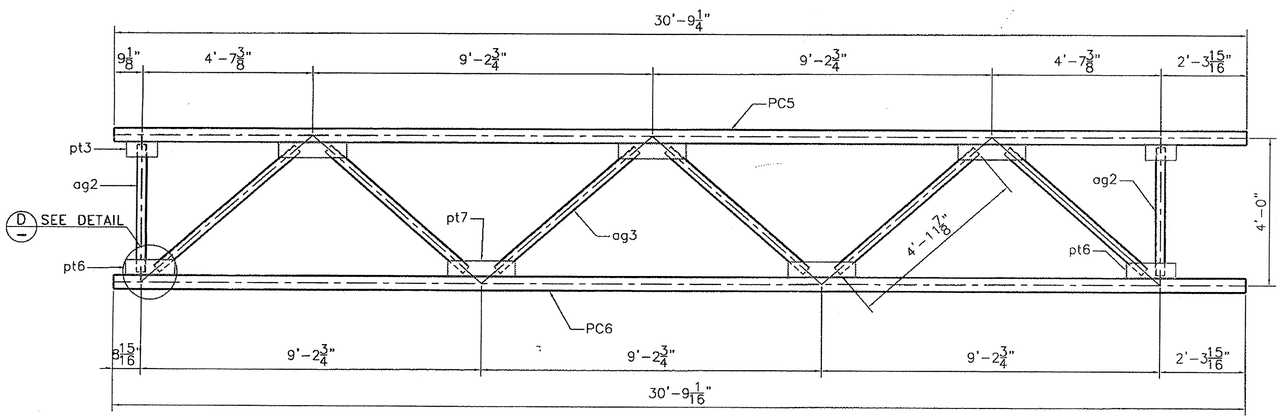
PIPE PLUG DETAIL
"EACH END OF TRUSS CHORD"



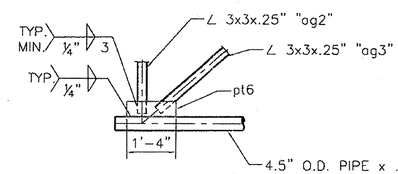
ag3



ag2



FRONT VIEW



DETAIL "D"

TRUSS TC2

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

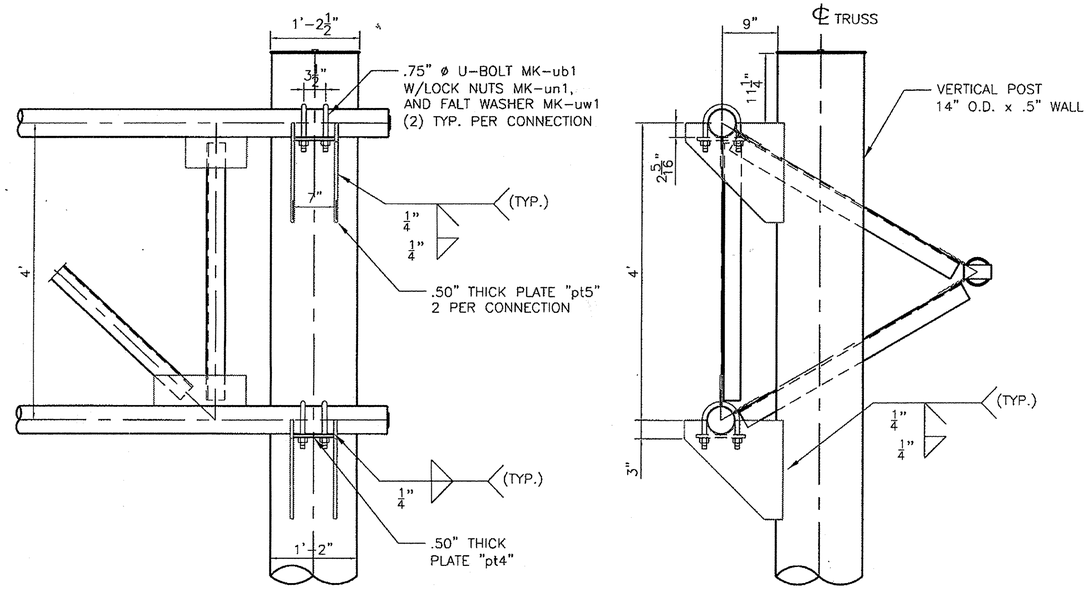
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.102 OH INTERCHANGE #8
PROJECT NUMBER IMG SIGN(19)
ROYALTON – MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

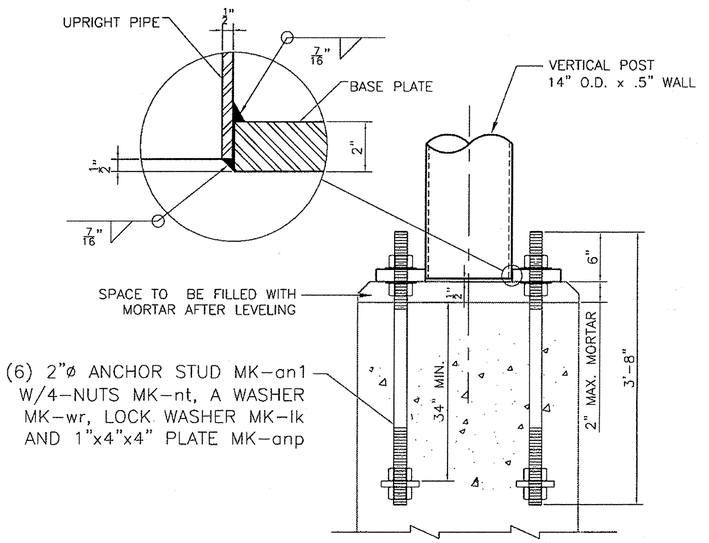
GENERAL CONTRACTOR

SUB CONTRACTOR
CCS Constructors LLC

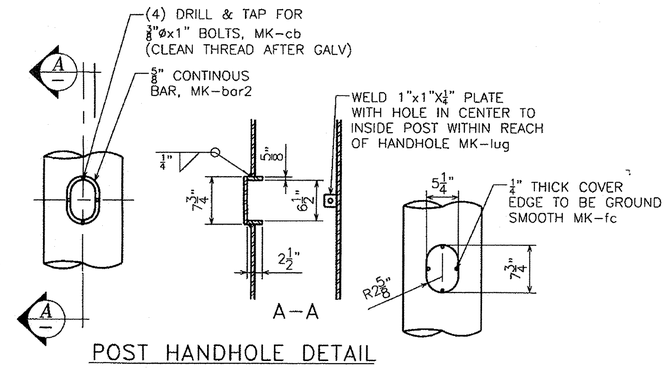
DRAWN	MHM
CHECKED	
DATE	12/22/09
SCALE	NTS
MSC REFERENCE NO.	1729c
SIZE	D
REVISION	0
SHEET NO.	3 of 6



TRUSS CONNECTION DETAIL

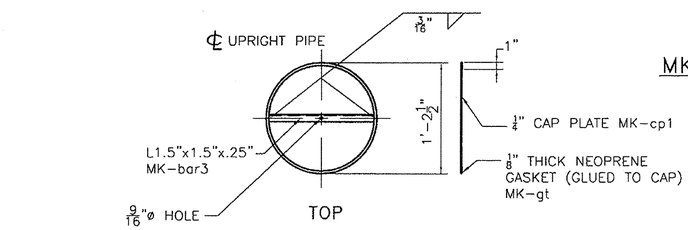


ANCHORAGE ASSEMBLY

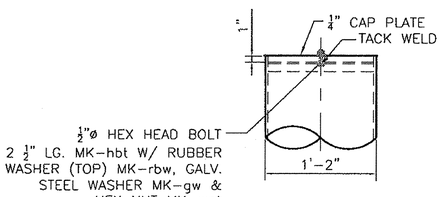


POST HANDHOLE DETAIL

PLACE ON SIDE OF POLE
AWAY FROM APPROCHING TRAFFIC

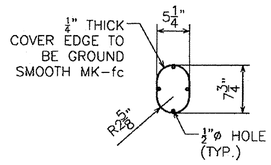


TOP

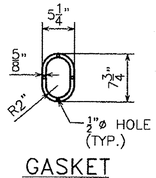


UPRIGHT CAP DETAIL

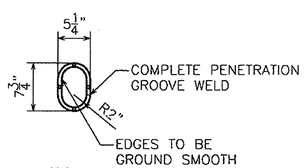
ASSEMBLE CAP TO POST PRIOR TO SHIPPING.



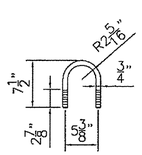
MK-fc



GASKET
MK-ga



MK-bar2



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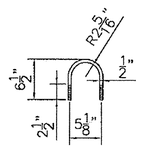

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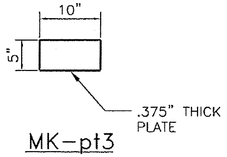
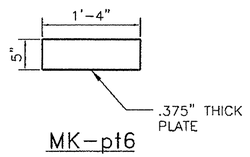


MK-pt3



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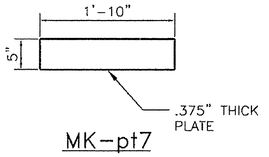

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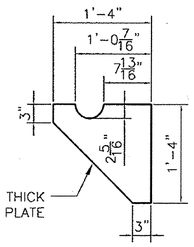

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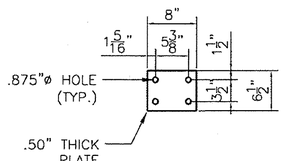


MK-pt4

NOTE:

1. STRUCTURE DESIGNED IN ACCORDANCE WITH LATEST EDITION AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS.

2. ALL HOLES FOR HIGH STRENGTH FASTENERS SHALL BE DRILLED OR SUB-PUNCHED FULL SIZE. SLOTTED HOLES AND/OR VENT OR ACCESS HOLES MAY BE CUT WITH MECHANICALLY GUIDED PLASMA OR MECHANICALLY GUIDED FLAME TORCH.

3. GRIND SHARP CORNERS OF ALL PLATES TO A $\frac{1}{16}$" MIN. RADIUS PRIOR TO GALVANIZING.

4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS D1.1.

5. ALL STEEL PLATES FOR STRUCTURAL COMPONENTS SHALL BE ASTM A709 GR. 50.

6. STEEL PLATES AND SHAPES FOR NON-STRUCTURAL COMPONENTS SHALL BE ASTM A709 GR. 36.

7. STEEL PIPES FOR STRUCTURAL MEMBERS SHALL HAVE MINIMUM YIELD OF 42 ksi AND SHALL CONFORM TO ONE OF THE FOLLOWING GRADES: ASTM A500 GR. B, OR API 5LX42.

8. UNLESS OTHERWISE NOTED, ALL BOLTS FOR STRUCTURAL CONNECTIONS SHALL BE M164 TYPE 1 (A325).

9. GALVANIZED U-BOLTS FOR CONNECTION OF SIGN HANGER BEAMS TO TRUSS SHALL BE ASTM F-1554 GR. 36.

10. ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111 (ASTM A123).

11. ALL HARDWARE, UNLESS OTHERWISE NOTED, SHALL BE HOT-DIPPED GALVANIZED PER AASHTO M232 (ASTM A153).

12. ANCHOR HARDWARE SHALL BE STAINLESS STEEL AND MEET REQUIREMENTS OF VAOT STANDARD SPECIFICATION 714.09.

13. CONCRETE AND REBAR SHOWN IN FOOTING DESIGN TO BE FURNISHED BY OTHERS.

14. FOUNDATION DESIGN BASED ON USE OF 3000 psi MINIMUM CONCRETE.

15. SPACE BETWEEN THE TOP OF CONCRETE AND THE BOTTOM OF STEEL BASE PLATE SHALL BE FILLED WITH TYPE IV MORTAR AFTER LEVELING.

16. BOLTS INSTALLED IN STRUCTURAL CONNECTIONS SHALL BE PROVIDED AND TENSIONED PER APPLICABLE PROVISIONS OF VAOT STANDARD SPECIFICATIONS SECTION 506.

17. SEAL WELD ALL CONNECTIONS WHEN POSSIBLE PRIOR TO GALVANIZING.

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

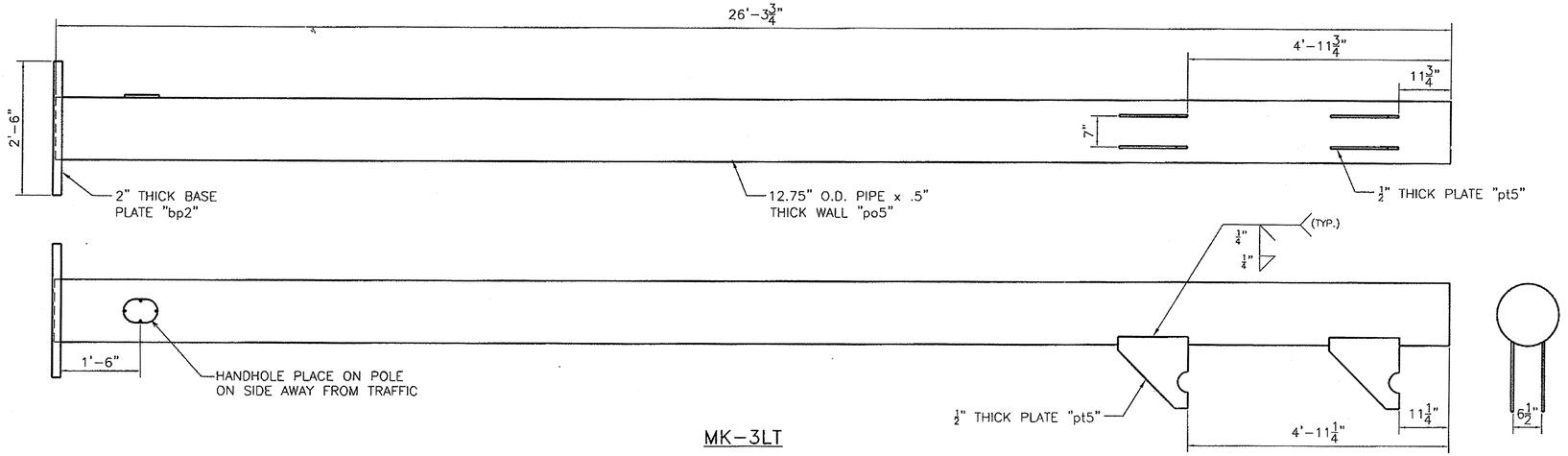
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.102 OH INTERCHANGE #8
PROJECT NUMBER IMG SIGN(19)
ROYALTON - MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

GENERAL CONTRACTOR

SUB CONTRACTOR
CCS Constructors LLC

DRAWN	MHM
CHECKED	
DATE	12/22/09
SCALE	N.T.S.
HSC REFERENCE NO.	1729c
SIZE	D
REVISION	0
SHEET NO.	4 of 6



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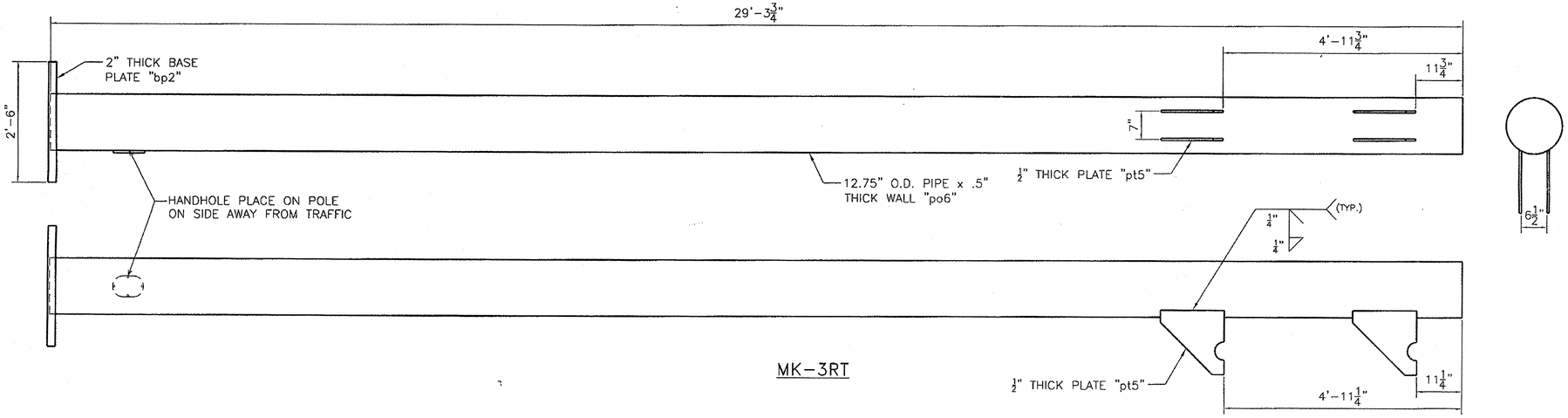
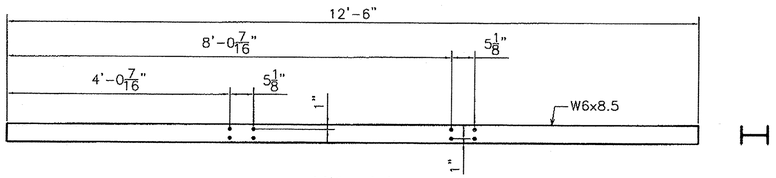


MK-3RT



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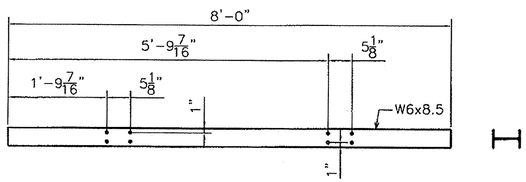
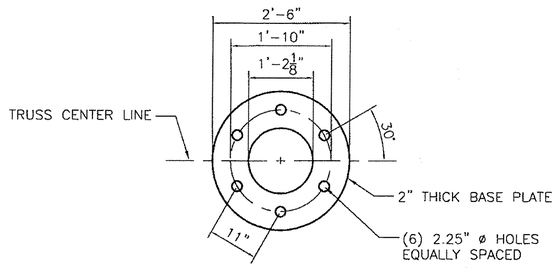


MK-sh3



MK-bp1

NOTE:
BASE PLATE SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER (VD.), HEIGHT (VHT.), YIELD STRENGTH (VYS.), GAUGE(VGE.), AND SAME FOR HORIZONTAL MEMBER (HD.), (HYS.), AND (HGE.).

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

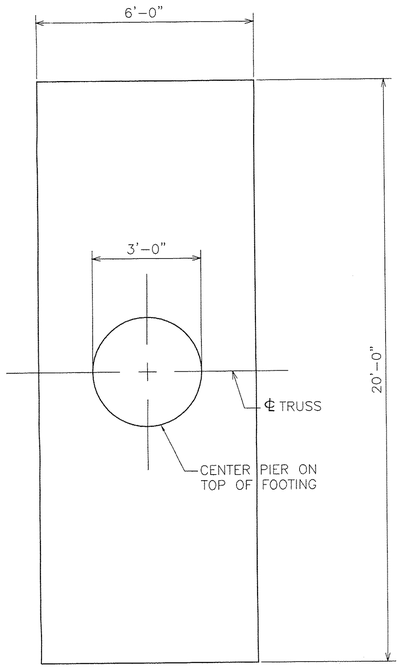
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.102 OH INTERCHANGE #8
PROJECT NUMBER IMG SIGN(19)
ROYALTON – MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

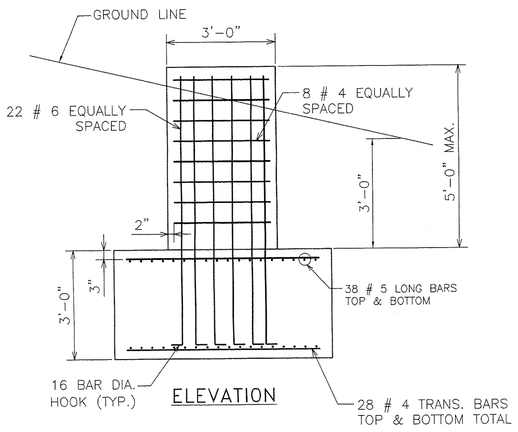
GENERAL CONTRACTOR

SUB CONTRACTOR
CCS Constructors LLC

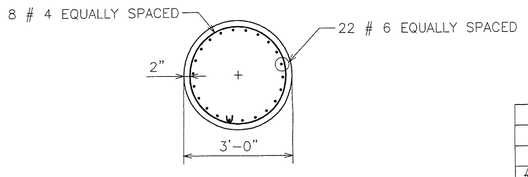
DRAWN	MHM
CHECKED	
DATE	12/22/09
SCALE	N.T.S.
MSC REFERENCE NO.	1729c
SIZE	D
REVISION	0
SHEET NO.	5 of 6



PLAN



ELEVATION



PLAN (STEM)

		INTERCHANGE #6 0.138 LT		
MK	**QTY**	**DESCRIPTION**	**LENGTH**	**SPEC.**
TA1	**1**	**TRUSS SECTION ASSEMBLY**		
PA1	1	4.500" O.D. x .237" WALL CHORD PIPE	29'-5.937"	A500 gr B, API 5LX42
PA2	1	4.500" O.D. x .237" WALL CHORD PIPE	33'-1.500"	A500 gr B, API 5LX42
PA3	1	4.500" O.D. x .237" WALL CHORD PIPE	33'-1.313"	A500 gr B, API 5LX42
ag1	21	L 3x3x.25"	4'-9.625"	A709 Gr 36
ag2	4	L 3x3x.25"	3'-5.500"	A709 Gr 36
pt1	6	0.375" THICK PLATE	5"x1'-3"	A709 Gr 50
pt2	18	0.375" THICK PLATE	5"x1'-8"	A709 Gr 50
pt3	4	0.375" THICK PLATE	5"x10"	A709 Gr 50
bar1	3	0.25" PLUG PLATE	2.25"x4.500"	A709 Gr 36
sp1	3	0.500" SPLICE PLATE	9.500" O.D.	A709 Gr 50
TA2	**1**	**TRUSS SECTION ASSEMBLY**		
PA4	1	4.500" O.D. x .237" WALL CHORD PIPE	29'-5.937"	A500 gr B, API 5LX42
PA5	1	4.500" O.D. x .237" WALL CHORD PIPE	33'-1.500"	A500 gr B, API 5LX42
PA6	1	4.500" O.D. x .237" WALL CHORD PIPE	33'-1.313"	A500 gr B, API 5LX42
ag1	21	L 3x3x.25"	4'-9.625"	A709 Gr 36
ag2	4	L 3x3x.25"	3'-5.500"	A709 Gr 36
pt1	6	0.375" THICK PLATE	5"x1'-3"	A709 Gr 50
pt2	18	0.375" THICK PLATE	5"x1'-8"	A709 Gr 50
pt3	4	0.375" THICK PLATE	5"x10"	A709 Gr 50
bar1	3	0.25" PLUG PLATE	2.25"x4.500"	A36
sp1	3	0.500" SPLICE PLATE	9.500" O.D.	A709 Gr 50
1LT	**1**	**LEFT POST ASSEMBLY**		
po1	1	14" O.D. x .500" WALL PIPE	26'-3.750"	A500 gr B, API 5LX42
cp1	1	0.25" CAP PLATE	1'-2.500" O.D.	A36
gt	1	0.125" GASKET	14.5" O.D.-12.5" I.D.	50 DURO. NEOPRENE
bar3	1	L1.5x1.5x.25"	1'-1"	A36
hb1	1	0.500" DIA. HEX BOLT	2.500"	A307
wnt	1	0.500" DIA. HEX NUT		A563
rbw	1	0.500" DIA. RUBBER WASHER		50 DURO. NEOPRENE
gw	1	0.500" DIA. WASHER		F844
pt4	2	0.500" PLATE	8" x 6.500"	A709 Gr 50
pt5	4	0.500" PLATE	16" x 16"	A709 Gr 50
bar2	1	0.625" x 2.500" BAR	21.500"	A36
ga	1	0.125" GASKET	7.750" x 5.250"	50 DURO. NEOPRENE
fc	1	0.25" COVER PLATE	7.750" x 5.250"	A36
cb	4	0.375" DIA. HEX BOLT	1"	A307
lug	1	0.25" PLATE	1" x 1"	A36
bp1	1	2" BASE PLATE	2'-6" O.D.	A709 Gr 50

1RT	**1**	**RIGHT POST ASSEMBLY**		
po2	1	14" O.D. x .500" WALL PIPE	32'-3.750"	A500 gr B, API 5LX42
cp1	1	0.25" CAP PLATE	1'-2.500" O.D.	A36
gt	1	0.125" GASKET	14.5" O.D.-12.5" I.D.	50 DURO. NEOPRENE
bar3	1	L1.5x1.5x.25"	1'-1"	A36
hb1	1	0.500" DIA. HEX BOLT	2.500"	A307
wnt	1	0.500" DIA. HEX NUT		A563
rbw	1	0.500" DIA. RUBBER WASHER		50 DURO. NEOPRENE
gw	1	0.500" DIA. WASHER		F844
pt4	2	0.500" PLATE	8" x 6.500"	A709 Gr 50
pt5	4	0.500" PLATE	16" x 16"	A709 Gr 50
bar2	1	0.625" x 2.500" BAR	21.500"	A36
ga	1	0.125" GASKET	7.750" x 5.250"	50 DURO. NEOPRENE
fc	1	0.25" COVER PLATE	7.750" x 5.250"	A36
cb	4	0.375" DIA. HEX BOLT	1"	A307
lug	1	0.25" PLATE	1" x 1"	A36
bp1	1	2" BASE PLATE	2'-6" O.D.	A709 Gr 50
		SIGN ASSEMBLY		
sh1	4	W6x8.5	12'-6"	A36
sh2	4	W6x8.5	10'-0"	A36
ub2	32	0.625" DIA. U-BOLT	7"	F1554 Gr 36
sk1	64	0.625" DIA. SELF LOCKING NUT		A563 DH
sw1	64	0.625" DIA. FALT WASHER		F436
		HARDWARE		
sbt1	24	0.625" DIA. SPLICE HEX BOLT	2.250"	A325
snt1	24	0.625" DIA. HEX NUT		A563 DH
swr1	48	0.625" DIA. WASHER		F436
ub1	8	0.75" DIA. U-BOLT	7.500"	F1554 Gr 36
un1	16	0.75" DIA. LOCK NUT		A563 DH
uw1	16	0.75" DIA. FALT WASHER		F436
		ANCHOR BOLT		
an1	12	2" DIA. STUD	3'-8"	S/S A276 TY304
nt	48	2" DIA. HEX NUT		S/S A194B TY304
wr	12	2" DIA. WASHER		S/S TY304
lk	12	2" DIA. LOCK WASHER		S/S TY305
anp	12	1" PLATE WASHER	4" x 4"	S/S TY305

REBAR LIST

REBAR	PCS. REQRD.	LENGTH	SPEC.
#4	16	9'-0"	A615 Gr. 60
#4	56	5'-6"	A615 Gr. 60
#6 (90° HOOK ONE END)	44	8'-6"	A615 Gr. 60
#5	76	19'-6"	A615 Gr. 60

REVISIONS

No.	Remarks	Date
0	Initial submittal	
1	MK-ub2	3/10/10
2	Footing design	5/26/10

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI CHORD OVERHEAD SIGN STRUCTURE
SIGN 0.138 OH INTERCHANGE #6
PROJECT NUMBER IMG SIGN(19)
ROYALTON – MIDDLESEX
VERMONT AGENCY OF TRANSPORTATION

GENERAL CONTRACTOR

SUB CONTRACTOR CCS Constructors LLC

DRAWN MHM
CHECKED
DATE 12/22/09
SCALE NTS
HSC REFERENCE NO. 1729a
SIZE D REVISION 0
SHEET NO. 6 of 6

CCS Constructors LLC
138 Munson Avenue
Morrisville, Vermont 05661
(802) 888-7701 FAX: (802) 888-4746

LETTER OF TRANSMITTAL

DATE: 2/23/2010	
ATTN: Al Jones	
RE: Royalton/ Middlesex IMG SIGN (19)	

TO: **Attn. Al Jones, Resident Engineer**
SE Regional Construction Office
837 Reservoir Rd.
Orange, VT 05641

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via _____ the following items:

☑ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO	DESCRIPTION	STATUS
1	2/23/2010	2	Steel post uppers shop drawings	
1	2/23/2010	2	Revised steel post base shop drawings	
1			GMAW Welding Procedures	

THESE ARE TRANSMITTED as checked below:

☐ 1. For approval ☐ 5. Approved as submitted ☐ 9. Resubmit copies for approval

☑ 2. For your use ☐ 6. Approved as noted ☐ 10. Submit copies for distribution

☐ 3. As requested ☐ 7. Returned for corrections ☐ 11. Return corrected prints

☐ 4. For review and comment ☐ 8. Revise and resubmit ☐ 12. _____

☐ 13. FOR BID DUE _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS: We added the S3 plates welded to PB10, added the 5" diameter hole on on PB4 of the 5" post uppers, and added the plate weight and total weight columns on the post upper tables.

COPY TO: 5 sets to Mike Hedges in Structures

SIGNED: Andrew White, P.E.

WELDING PROCEDURE SPECIFICATION (WPS)
PREQUALIFIED _ QUALIFIED BY TESTING X
or PROCEDURE QUALIFICATION RECORDS (PQR) Yes X
AASHTO/AWS D1.5 Qualification Type 5.12.1 _ 5.12.2 _ 5.13 _

Contractor
Organization CCS Constructors
Welding Process(es) GMAW-P
Type: Manual _ Semiautomatic X
Machine _ Automatic _
Tandem _ Parallel _

Identification CCS-WPS-GMAWP
Revision 1st Date 1/13/2010 BER
Authorized by Tim Prevost Date 1/13/2010
Supporting PQR No.(s) CCS-POR-GMAWP

JOINT DESIGN USED
Single X Double Weld _
Backing: Yes X No _ Material A36
Root Opening 5/8 Root Face Dimension
Groove Angle 20 Radius (J-U)
Backgouging: Yes _ No X Method
Root Treatment

BASE METALS
Material Spec. A572
Type or Grade 50
Thickness: Groove 1" Fillet
Diameter (Pipe)

FILLER METALS
AWS Specification A5.28
AWS Classification ER80S-NIL
Manufacturer Trade Name Lincoln

SHIELDING
Flux Mfg. Trade Name
Electrode-Flux (Class)
Gas Composition 84%Ar16%CO2
Flow Rate 40CFH Gas Cup Size 5/8

POSITION
Position of Groove 3G Fillet
Vertical Progression: Up X Down _

ELECTRICAL CHARACTERISTICS
Transfer Mode (GMAW): Globular _ Spray X
Current: AC _ DCEP X DCEN _ Pulsed X
Electrical Stick Out 3/8
Other

TECHNIQUE
Stringer or Weave Bead Stringer
Multi-pass or Single Pass (per side) Multi
Number of Electrodes one
Electrode Spacing: Longitudinal
Lateral Angle
Interpass Cleaning Chip & Wire Brush

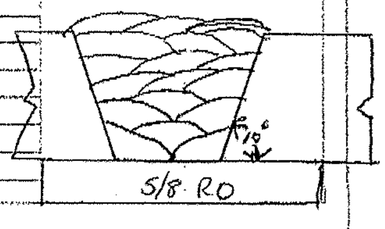
PREHEAT
Preheat Temp., Min. 70
Interpass Temp., Min. 70
Interpass Temp., Max. 400F

POSTWELD HEAT TREATMENT
Temp. N/A Hold Time N/A
Heating/Cooling Rate

HEAT INPUT
Calculated Heat Input Value: kJ/in _ kJ/mm _
Max. Heat Input Min. Heat Input

WELDING PROCEDURE

Pass or Weld Layer(s)	Process	Filler Metals Diam.	Current Type & Polarity	Current Amps or Wire Feed Speed	Volts	Travel Speed	Joint Details
1-5	GMAW	.045	DCEP	111-115a	21-22	3.5to7IPM	20°
5-17	GMAW	.045	DCEP	110-130	21-23		



Form L-2

Form L-2—Sample Welding Procedure Specification

adj 2/26/10

WELDER OR WELDING OPERATOR QUALIFICATION TEST RECORD

Welder or welding operator's name: William Reen — I.D. no. 62008
Weld process: GMAW -P — Manual: — Semiautomatic: X — Machine:
Position: Tested in 3G Qualified 1G,2G,3G- 1F-2F-3F Upward
(Flat, horizontal, overhead or vertical - if vertical, state whether upward or downward)
In accordance with procedure specificaiton no.: CCS-WPS-GMAWP B-U2a-GF
Material specification: (ASTM-709), M270 (A572 G 50) 1 inch Thick
Thickness range this qualifies: 1/8" to unlimited

FILLER METAL

Specification no.: A5.28 — Classification: ER80S-NIL — F no.:
Describe filler metal (if not covered by AWS specificaiton)
Is backing used? Yes
Filler metal diameter and trade name: .045 LA75 Lincoln
Flux for submerged arc or gas for gas metal arc or flux cored arc welding: n/a

VISUAL INPECTION (9.21.1)

Appearance: ACCEPTABLE — Undercut: NONE — Piping porosity: NONE

GUIDED BEND TEST RESULTS

Type	Result	Type	Result
Side Bend	No Defects	Side Bend	No Defects
Side Bend	No Defects	Side Bend	Defects less than 1/8

Test conducted by: Lynn Anderson — Lab test no.: Auburn
per: AWS D1.5 — Test date: 1/13/2010

See attached paper work

FILLET TEST RESULTS

Appearance: — Fillet size:
Fracture test root penetration: — Macroetch:
(Describe the location, nature and size of any crack or tearing of the specimen.)
Test conducted by: — Lab test no.:
per: — Test date:

RADIOGRAPHIC TEST RESULTS

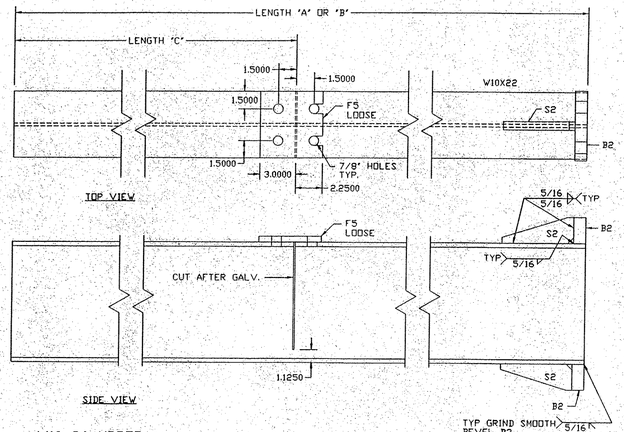
Film I.D.	Results	Remarks	Film I.D.	Results	Remarks
CCS 1"	accept	view1-2 7x17			
CCS 1"	Accept	view 2-3 7x17			

Test conducted by Waino Gustafson — Lab test no. Auburn
per Tim Prevost — Test date 12/30/2009

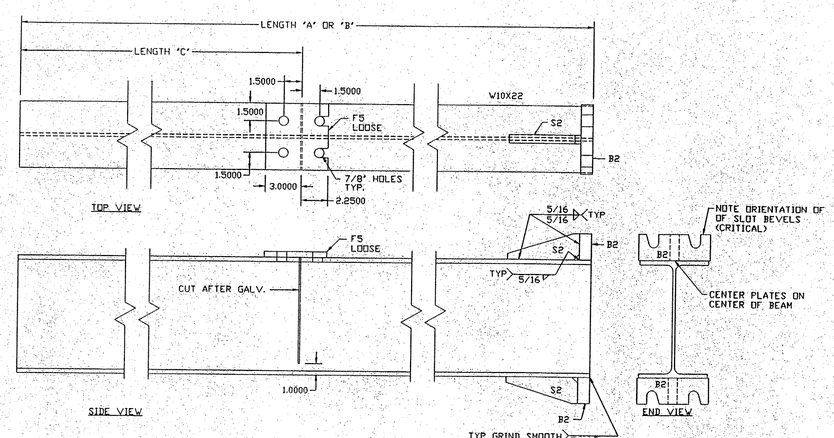
We, the undersigned, certify that the statements in this record are correct and that the welds were prepared and tested in accordance with the requirements of ANSI/AASHTO/AWS D **D1.5 2008 Bridge welding Code**

Manufacturer of Contractor: CCS Constructors
Authorized by: Tim Prevost
Date: 1/21/2010

ass 2/26/10

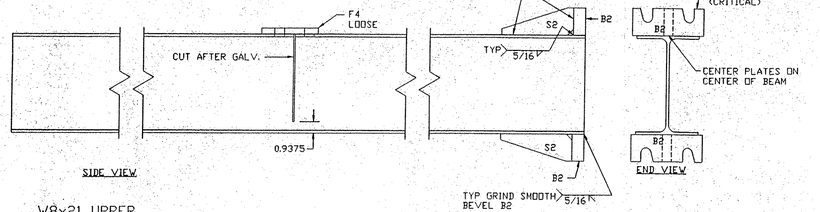


W10x26 UPPER
4 REQ'D

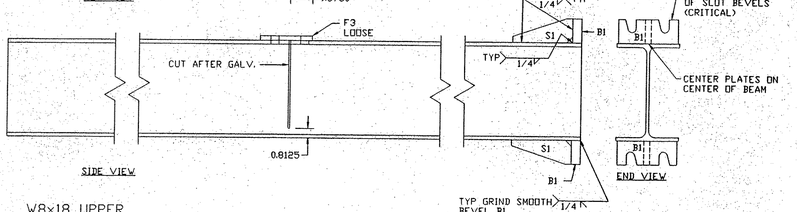


W10x22 UPPER
12 REQ'D

Mile Marker	Sheet	sign ht (in)	ht above shoulder (in)	wt A stem (lbs)	wt B stem (lbs)	PL wt (lbs)	Total wt A (lbs)	Total wt B (lbs)	Size	delta A B	A length	B length	C length
21.92NB	53	144	84	368.3	370.5	5.42	373.7	375.9	W8X18	0'-1 1/2"	20'-5 1/2"	20'-7"	12'-4"
29.680NB	55	114	84	343.0	323.2	5.42	348.5	328.6	W8X18	1'-1 1/4"	19'-11/16"	17'-11 7/16"	9'-10"
30.180NB	55	114	84	341.2	315.2	5.42	346.6	320.6	W8X18	1'-5 5/16"	18'-11 7/16"	17'-6 1/8"	9'-10"
30.335NB	55	144	84	371.1	341.4	5.42	376.5	346.9	W8X18	1'-7 3/4"	20'-7 3/8"	18'-11 5/8"	12'-4"
30.500NB	55	126	84	393.8	368.1	5.42	399.2	373.5	W8X18	1'-5 1/8"	21'-10 1/2"	20'-5 3/8"	10'-10"
31.400SB	73	144	84	403.1	420.9	5.42	408.5	426.4	W8X18	0'-11 7/8"	22'-4 3/4"	23'-4 5/8"	12'-4"
42.440NB	58	144	84	260.4	290.8	5.42	265.9	296.2	W8X18	1'-1 8 1/4"	14'-5 5/8"	16'-1 7/8"	12'-4"
46.405NB	60	144	84	351.7	366.6	5.42	357.1	372.0	W8X18	0'-9 15/16"	19'-6 7/16"	20'-4 3/8"	12'-4"
49.735NB	61	144	84	364.7	400.3	5.42	370.1	405.7	W8X18	1'-1 1/4"	20'-3 1/8"	22'-2 7/8"	12'-4"
49.910NB	62	120	84	384.2	410.3	5.42	389.6	415.7	W8X18	1'-5 3/8"	21'-4 1/8"	22'-9 1/2"	10'-4"
51.720NB	63	114	96	277.7	222.8	5.42	283.1	228.2	W8X18	3'-5/8"	15'-5 1/8"	12'-4 1/2"	9'-10"
52.235NB	63	114	96	383.0	380.6	5.42	388.4	386.1	W8X18	0'-11 3/4"	20'-2"	21'-1 3/4"	9'-10"
52.440NB	64	144	84	382.6	386.0	5.42	388.0	391.4	W8X18	0'-2 1/4"	21'-3 1/16"	21'-5 5/16"	12'-4"
32.060SB	73	114	84	276.9	245.4	5.42	282.4	250.9	W8X18	1'-9"	15'-4 5/8"	13'-7 5/8"	9'-10"
43.390SB	75	144	84	349.3	370.5	5.42	354.7	375.9	W8X18	- 1'-2 1/8"	19'-4 7/8"	20'-7"	12'-4"
47.200 SB	77	102	84	304.9	287.4	5.42	310.3	292.9	W8X18	0'-11 5/8"	16'-11 1/4"	15'-11 5/8"	8'-10"
47.360 SB	77	144	84	350.4	366.6	5.42	355.9	372.0	W8X18	- 0'-10 3/4"	19'-5 5/8"	20'-4 3/8"	12'-4"
51.080 SB	79	144	84	354.3	382.8	5.42	359.7	388.2	W8X18	- 1'-7"	19'-8 3/16"	21'-3 3/16"	12'-4"
21.320NB	53	144	84	434.8	369.7	10.22	445.0	379.9	W8X21	3'-1 3/16"	20'-8 7/16"	17'-7 1/4"	12'-4 1/4"
21.650NB	53	138	96	412.1	427.1	10.22	422.3	437.3	W8X21	- 0'-8 9/16"	19'-2 1/2"	20'-4 1/16"	11'-10 1/4"
22.135NB	53	120	84	365.5	380.5	10.22	375.8	390.7	W8X21	- 0'-8 9/16"	17'-4 7/8"	18'-1 7/16"	10'-4 1/4"
41.840NB	57	144	84	404.7	440.1	10.22	414.9	450.3	W8X21	- 1'-8 1/4"	19'-3 1/4"	20'-11 1/2"	12'-4 1/4"
42.716NB	58	120	84	260.5	297.3	10.22	270.8	307.5	W8X21	- 1'-9"	12'-4 7/8"	14'-1 7/8"	10'-4 1/4"
45.900NB	59	144	84	387.4	347.8	10.22	397.6	358.0	W8X21	1'-10 5/8"	18'-5 3/8"	16'-6 3/4"	12'-4 1/4"
46.250NB	60	138	84	416.8	390.3	10.22	426.1	400.5	W8X21	1'-2 5/8"	19'-9 5/8"	18'-7"	11'-10 1/4"
46.535NB	60	126	84	366.8	340.2	10.22	377.1	350.4	W8X21	1'-3 1/4"	17'-5 5/8"	16'-2 3/8"	10'-10 1/4"
48.953NB	61	144	84	423.0	402.3	10.22	433.2	412.5	W8X21	0'-11 13/16"	20'-1 11/16"	19'-1 7/8"	12'-4 1/4"
49.505NB	61	138	84	300.1	292.5	10.22	310.3	302.7	W8X21	0'-4 3/8"	14'-3 1/2"	13'-11 1/8"	11'-10 1/4"
52.595NB	64	132	84	428.3	420.9	10.22	438.5	431.1	W8X21	0'-4 1/4"	20'-4 3/4"	20'-1/2"	11'-4 1/4"
57.330NB	67	144	84	457.4	398.3	10.22	467.6	408.6	W8X21	2'-9 3/4"	21'-9 3/8"	18'-11 5/8"	12'-4 1/4"
57.955NB	67	138	96	425.9	458.5	10.22	436.1	468.7	W8X21	- 1'-6 5/8"	20'-3 3/8"	21'-10"	11'-10 1/4"
58.455NB	68	156	96	437.9	374.3	10.22	448.2	384.5	W8X21	3'-3/8"	20'-10 1/4"	17'-9 7/8"	13'-4 1/4"
22.640SB	71	120	84	371.4	298.2	10.22	381.7	308.4	W8X21	3'-5 7/8"	17'-8 1/4"	14'-2 3/8"	10'-4 1/4"
23.300SB	71	144	84	402.8	332.9	10.22	413.0	343.2	W8X21	3'-3 15/16"	19'-2 3/16"	15'-10 1/4"	12'-4 1/4"
31.200SB	73	126	84	450.0	476.8	10.22	460.2	487.0	W8X21	- 1'-3 5/16"	21'-5 1/8"	22'-8 7/16"	10'-10 1/4"
31.570SB	73	114	96	417.4	483.7	10.22	427.6	493.9	W8X21	- 3'-1 7/8"	19'-10 1/2"	23'-3/8"	9'-10 1/4"
46.940 SB	77	126	84	435.1	464.0	10.22	445.3	474.2	W8X21	- 1'-4 1/2"	20'-8 5/8"	22'-1 1/8"	10'-10 1/4"
47.815 SB	78	144	84	433.1	463.2	10.22	443.3	473.4	W8X21	- 1'-5 3/16"	20'-7 1/2"	22'-11/16"	12'-4 1/4"
50.930 SB	79	138	84	445.8	470.8	10.22	456.0	481.0	W8X21	- 1'-2 1/4"	21'-2 3/4"	22'-5"	11'-10 1/4"
51.230 SB	80	138	84	436.2	480.4	10.22	446.4	490.6	W8X21	- 2'-1 1/4"	20'-9 1/4"	22'-10 1/2"	11'-10 1/4"
51.615 SB	80	144	84	439.5	420.5	10.22	449.7	430.8	W8X21	0'-10 13/16"	20'-11 1/8"	20'-5/16"	12'-4 1/4"
53.350 SB	81	120	84	350.0	347.8	10.22	360.2	358.0	W8X21	0'-1 1/4"	16'-8"	16'-6 3/4"	10'-4 1/4"
53.550 SB	81	144	84	436.8	453.5	10.22	447.1	463.7	W8X21	- 0'-9 1/2"	20'-9 5/8"	21'-7 1/8"	12'-4 1/4"
59.300 SB	85	138	96	463.1	481.3	10.22	473.3	491.5	W8X21	- 0'-10 3/8"	22'-5/8"	22'-11"	11'-10 1/4"
59.870 SB	85	144	84	507.5	536.9	10.22	517.7	547.1	W8X21	- 1'-4 13/16"	24'-2"	25'-6 13/16"	12'-4 1/4"
42.290NB	58	138	96	421.7	359.9	10.22	431.9	370.1	W10X22	2'-9 11/16"	19'-2"	16'-4 5/16"	11'-10 1/2"
22.949SB	71	138	96	475.1	607.5	10.22	485.3	617.7	W10X22	- 6'-1/4"	21'-7 1/8"	27'-7 3/8"	11'-10 1/2"
43.240SB	75	120	84	420.3	509.7	10.22	430.5	519.9	W10X22	- 4'-3/4"	19'-1 1/4"	23'-2"	10'-4 1/2"
44.250SB	76	144	84	407.0	396.0	10.22	417.2	406.2	W10X22	0'-6"	18'-6"	18'-0"	12'-4 1/2"
53.850 SB	82	138	96	458.3	531.0	10.22	468.6	541.2	W10X22	- 3'-3 5/8"	20'-10"	24'-1 5/8"	11'-10 1/2"
54.150 SB	82	144	84	443.7	514.0	10.22	453.9	524.2	W10X22	- 3'-2 3/8"	20'-2"	23'-4 3/8"	12'-4 1/2"
59.000 SB	85	126	96	535.8	589.6	10.22	546.0	599.9	W10X22	- 2'-5 3/8"	24'-4 1/4"	26'-9 5/8"	13'-4 1/2"
43.540SB	76	138	96	535.0	619.9	10.22	545.3	630.2	W10X26	- 3'-3 3/16"	20'-6 15/16"	23'-10 1/8"	11'-10 1/2"
47.510 SB	78	138	96	541.0	620.8	10.22	551.2	631.0	W10X26	- 3'-13/16"	20'-9 11/16"	23'-10 1/2"	11'-10 1/2"



W8x21 UPPER
53 REQ'D



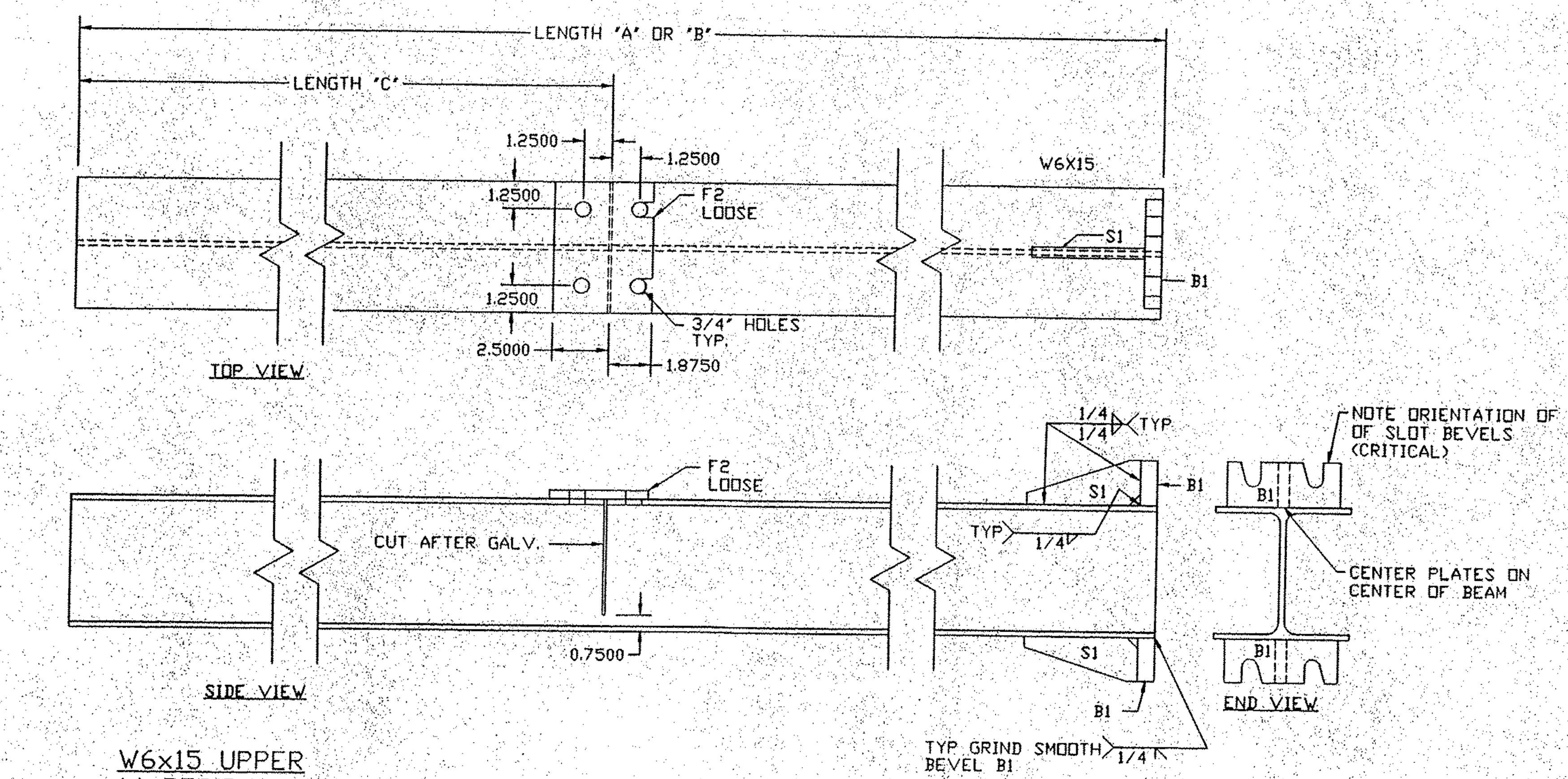
W8x18 UPPER
34 REQ'D

NOTE: ALL W-SHAPES AASHTO M270 GR. 36 OR 50
NOTE: ALL PLATES AASHTO M270 GR. 36 OR 50
NOTE: ALL ROUND HSS SHAPES ASTM A500 GR. B
NOTE: ALL PIPE SHAPES ASTM A53 GR. B

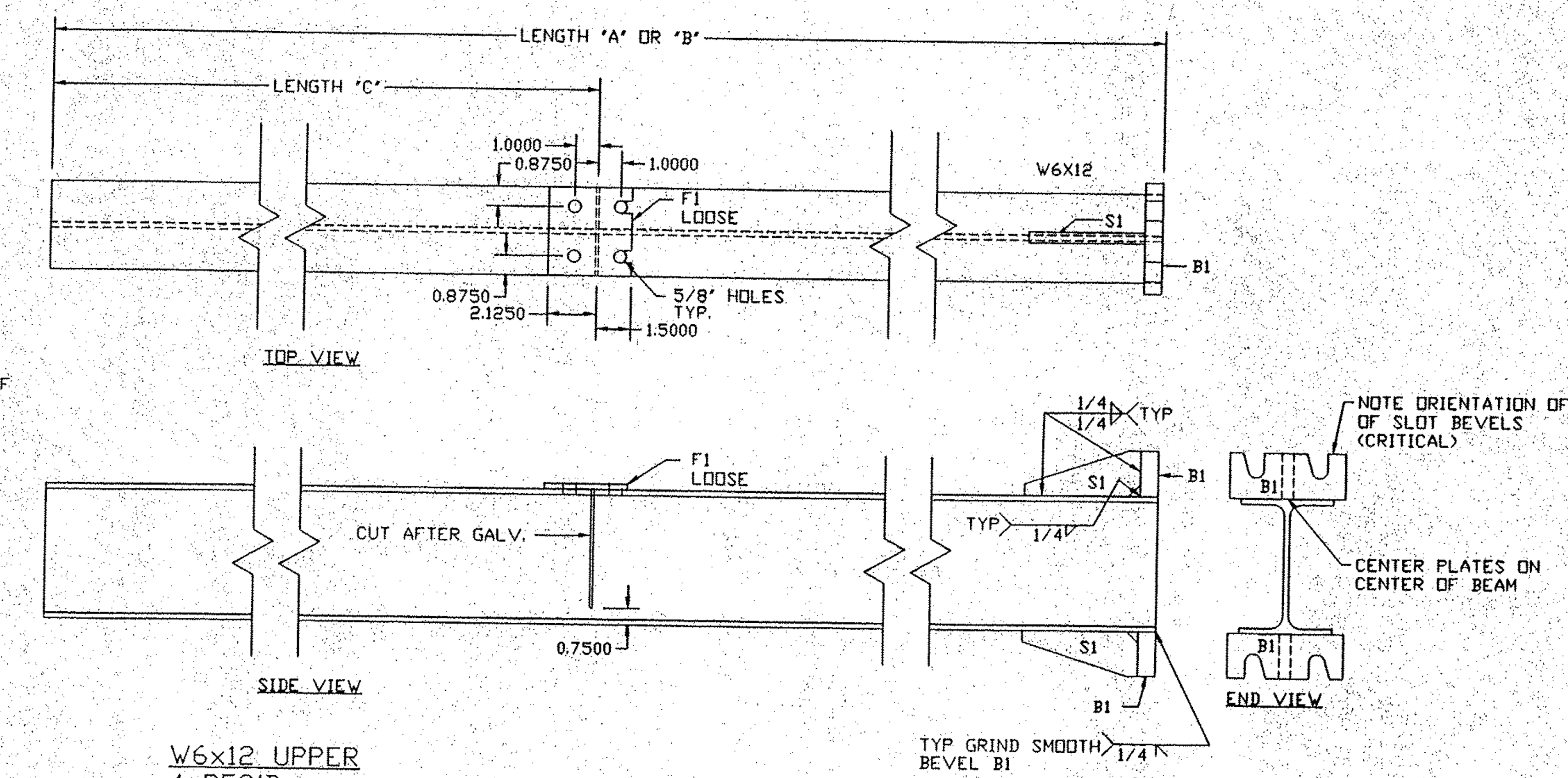
CCS CONSTRUCTORS, LLC
138 MUNSON AVE.
MORRISVILLE, VT 05661
PH. 802-888-7701
FX. 802-888-4746

FINISH:
GALVANIZE TO AASHTO M111

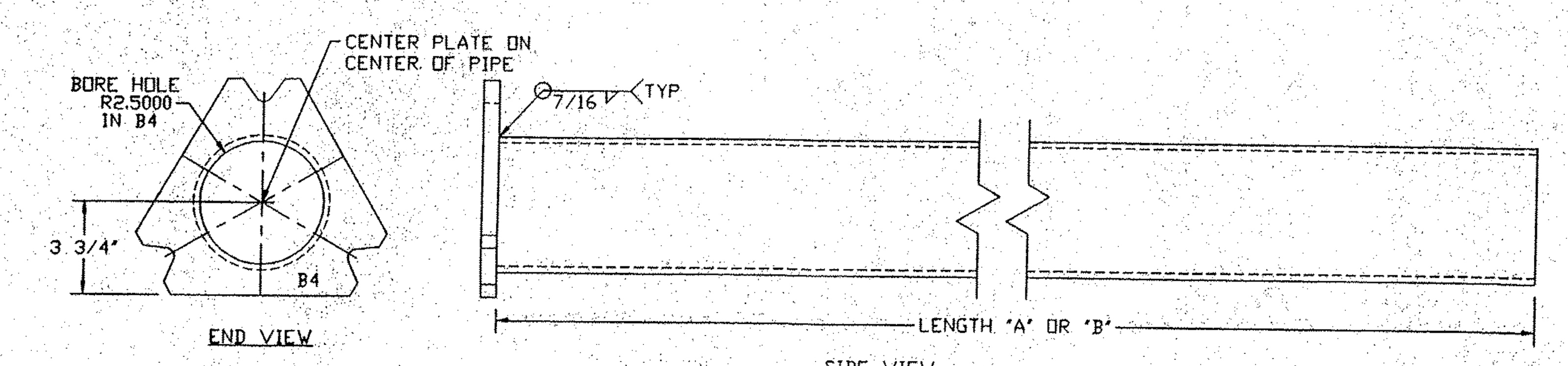
REVISION 1	2/23/10	UPPER 5'
PROJECT NAME: ROYALTON-MIDDLESEX		PROJECT NO.: IMG SIGN(19)
UPPERS		DRAWING NO.: 1 of 2
SCALE 1'=1'	DATE 2/23/10	
DRAWN: EB		SUPERVISOR: AW
TOWNS: ROYALTON, BETHEL, RANDOLF NORTHFIELD, BARRE, MONTPELIER, MIDDLESEX		



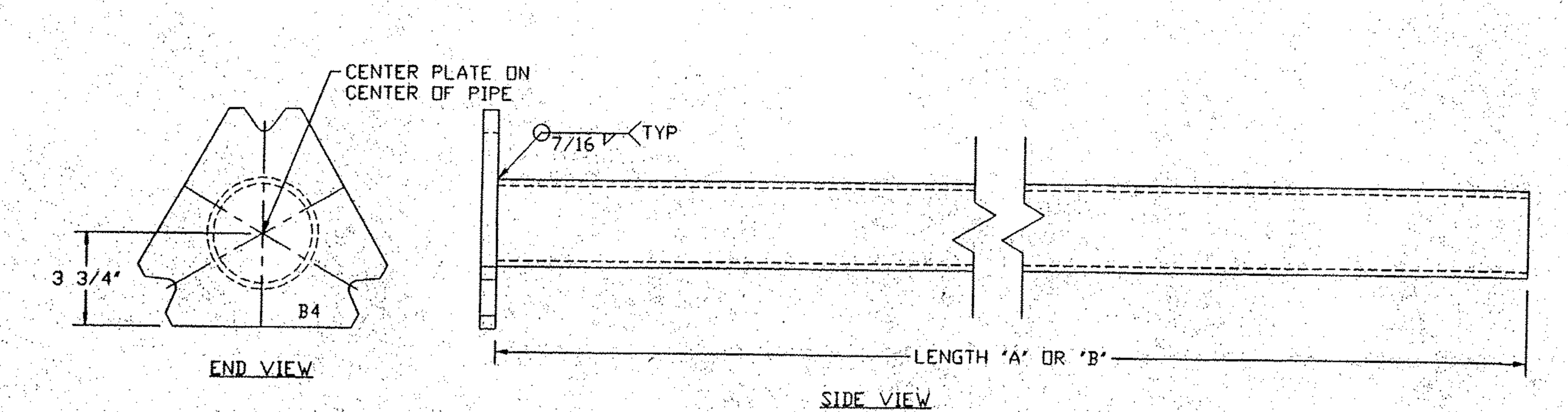
W6x15 UPPER
14 REQ'D



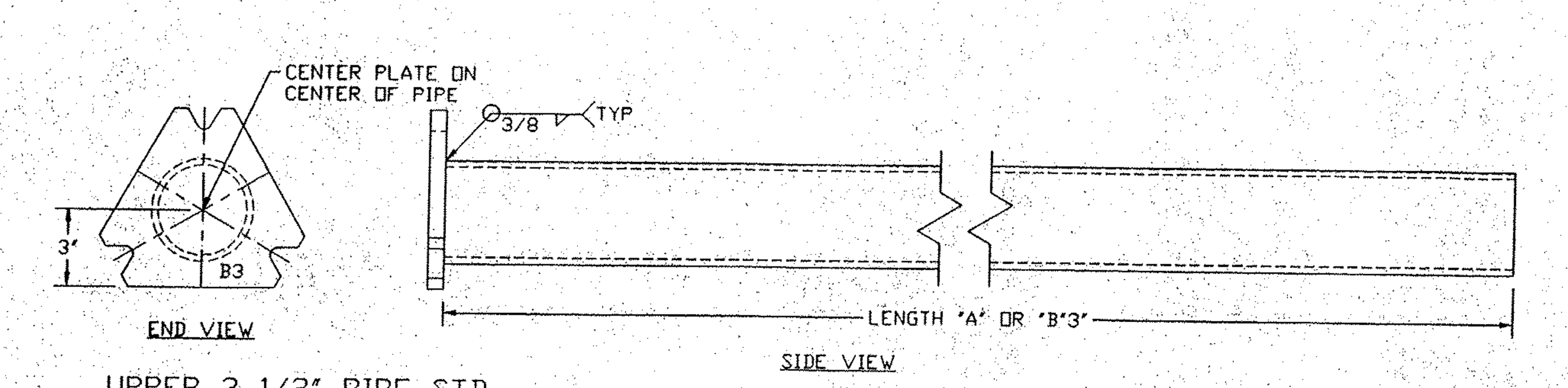
W6x12 UPPER
4 REQ'D



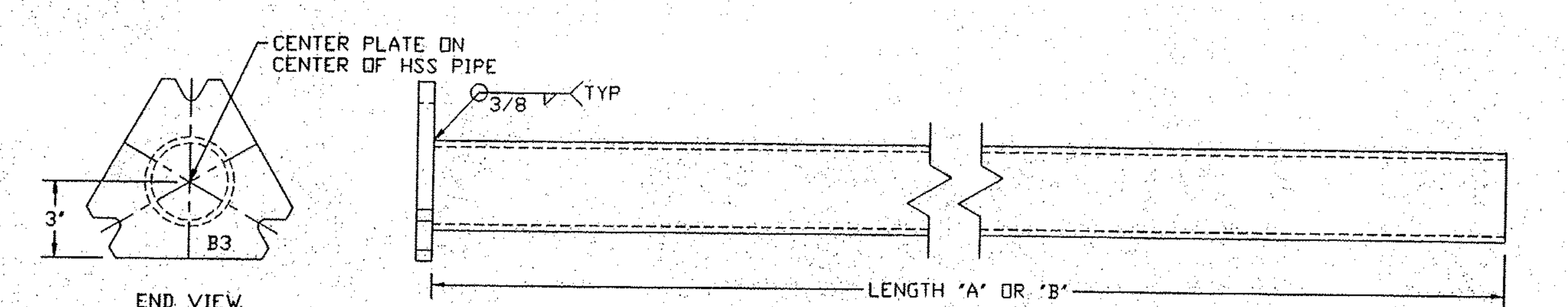
UPPER 5" PIPE STD.
48 REQ'D



UPPER 4" PIPE STD.
48 REQ'D



UPPER 3 1/2" PIPE STD.
48 REQ'D



UPPER HSS3.500X0.216
258 REQ'D

Mile Marker	Sheet	sign ht (in)	ht above shoulder (in)	wt A stem (lbs)	wt B stem (lbs)	PL wt (lbs)	Total wt A (lbs)	Total wt B (lbs)	Size	delta A B	A length	B length	C length
49.325NB	61	84	84	151.6	118.1	5.42	157.0	123.5	W6X12	2'-9 7/16"	12'-7 9/16"	9'-10 1/8"	7'-3 3/8"
23.100SB	71	84	84	172.9	151.8	5.42	178.3	157.2	W6X12	1'-9 1/8"	14'-4 7/8"	12'-7 3/4"	7'-3 3/8"
29.930NB	55	84	84	215.9	189.1	5.42	221.4	194.6	W6X15	1'-9 7/16"	14'-4 3/4"	12'-7 5/16"	7'-4"
42.140NB	57	102	84	279.1	257.2	5.42	284.5	262.6	W6X15	1'-5 1/2"	18'-7 1/4"	17'-1 3/4"	8'-10"
51.540NB	63	108	84	264.7	246.4	5.42	270.1	251.8	W6X15	1'-2 5/8"	17'-7 3/4"	16'-5 1/8"	9'-4"
31.820SB	73	84	84	268.4	275.5	5.42	273.9	280.9	W6X15	- 0'-5 5/8"	17'-10 3/4"	18'-4 3/8"	7'-4"
43.700SB	76	84	84	207.2	195.3	5.42	212.6	200.7	W6X15	0'-9 1/2"	13'-9 3/4"	13'-1/4"	7'-4"
51.380 SB	80	84	84	226.4	238.1	5.42	231.8	243.5	W6X15	- 0'-9 3/8"	15'-1 1/8"	15'-10 1/2"	7'-4"
54.304 SB	82	108	84	276.6	301.6	5.42	282.0	307.0	W6X15	- 1'-8"	18'-5 1/4"	20'-1 1/4"	9'-4"
22.246NB	53	60	84	96.1	99.9	6.79	102.9	106.7	3" DIA	- 0'-6"	12'-8 1/8"	13'-2 1/8"	
22.285NB	53	48	84	91.9	96.6	6.79	98.7	103.4	3" DIA	- 0'-7 7/16"	12'-1 9/16"	12'-9"	
22.730NB	54	36	84	79.5	81.5	6.79	86.3	88.3	3" DIA	- 0'-3 1/8"	10'-5 7/8"	10'-9"	
22.805NB	54	77	72	97.1	NA	6.79	103.9	NA	3" DIA	NA	12'-9 3/4"	NA	
23.460NB MED	54	60	84	89.1	89.1	6.79	95.9	95.9	3" DIA	0'-0"	11'-9"	11'-9"	
26.053NB	54	48	84	94.1	99.8	6.79	100.9	106.6	3" DIA	- 0'-9"	12'-5"	13'-2"	
30.693NB	55	60	84	87.1	85.7	6.79	93.9	92.5	3" DIA	0'-2 1/4"	11'-5 7/8"	11'-3 5/8"	
31.450NB	55	36	84	81.6	88.7	6.79	88.4	95.5	3" DIA	- 0'-11 5/16'	10'-9 1/8"	11'-8 7/16"	
31.525NB	56	87	72	105.8	NA	6.79	112.6	NA	3" DIA	NA	13'-11 1/2"	NA	
32.180NB-1	56	60	84	97.6	104.2	6.79	104.4	111.0	3" DIA	- 0'-10 1/2"	12'-10 1/2"	13'-9"	
32.180NB-2	56	60	84	89.1	89.1	6.79	95.9	95.9	3" DIA	0'-0"	11'-9"	11'-9"	
39.138NB	57	68	84	104.0	110.0	6.79	110.8	116.8	3" DIA	- 0'-9 1/2"	13'-8 11/16"	14'-6 3/16"	
41.065NB	57	50	84	90.2	85.9	6.79	97.0	92.7	3" DIA	0'-6 7/8"	11'-10 7/8"	11'-4"	
42.820NB	58	60	84	95.3	97.5	6.79	102.1	104.3	3" DIA	- 0'-3 1/2"	12'-6 7/8"	12'-10 3/8"	
42.870NB	58	60	84	91.4	95.2	6.79	98.1	102.0	3" DIA	- 0'-6 1/16"	12'-5/8"	12'-6 11/16"	
43.275NB	58	36	84	81.9	89.0	6.79	88.7	95.8	3" DIA	- 0'-11 1/4"	10'-9 5/8"	11'-8 7/8"	
43.350NB	58	87	72	115.8	NA	6.79	122.5	NA	3" DIA	NA	15'-3 1/4"	NA	
43.445NB	59	68	84	104.3	110.9	6.79	111.1	117.7	3" DIA	- 0'-10 7/16'	13'-9 1/8"	14'-7 9/16"	
43.830NB	59	36	84	79.2	63.9	6.79	86.0	70.7	3" DIA	2'-1/4"	10'-5 3/8"	8'-5 1/8"	
44.080NB-1	59	60	84	96.0	103.1	6.79	102.8	109.9	3" DIA	- 0'-11 1/4"	12'-8"	13'-7 1/4"	
44.080NB-2	59	60	84	89.1	89.1	6.79	95.9	95.9	3" DIA	0'-0"	11'-9"	11'-9"	
46.630NB	60	50	84	97.6	97.6	6.79	104.3	104.3	3" DIA	0'-0"	12'-10 7/16"	12'-10 7/16"	
46.836NB	60	60	84	94.0	96.1	6.79	100.8	102.9	3" DIA	- 0'-3 1/4"	12'-4 7/8"	12'-8 1/8"	
47.320NB	60	36	84	81.1	87.2	6.79	87.8	94.0	3" DIA	- 0'-9 11/16'	10'-8 5/16"	11'-6"	
47.395NB	60	87	72	105.4	NA	6.79	112.2	NA	3" DIA	NA	13'-10 7/8"	NA	
48.175NB	61	60	84	98.6	106.8	6.79	105.4	113.6	3" DIA	- 1'-15/16"	13'-1/8"	14'-1 1/16"	
48.175NB	61	60	84	89.1	89.1	6.79	95.9	95.9	3" DIA	0'-0"	11'-9"	11'-9"	
50.125NB	62	60	84	91.7	92.1	6.79	98.5	98.9	3" DIA	- 0'-11/16"	12'-1 1/8"	12'-1 13/16"	
50.730NB	62	87	72	103.5	NA	6.79	110.3	NA	3" DIA	NA	13'-7 7/8"	NA	
50.910NB	62	18	84	64.8	68.1	6.79	71.6	74.9	3" DIA	- 0'-5 1/4"	8'-6 5/8"	8'-11 7/8"	
51.075NB	63	36	84	74.8	49.8	6.79	81.6	56.6	3" DIA	3'-3 5/8"	9'-10 7/16"	6'-6 13/16"	
51.325NB	63	60	84	98.5	106.0	6.79	105.3	112.8	3" DIA	- 1'-0"	12'-11 7/8"	13'-11 7/8"	
51.860NB	63	50	84	86.2	88.3	6.79	93.0	95.1	3" DIA	- 0'-3 1/4"	11'-4 1/2"	11'-7 3/4"	
52.690NB	64	60	84	91.6	91.7	6.79	98.4	98.5	3" DIA	- 0'-1/4"	12'-1"	12'-1 1/4"	
52.855NB	64	60	84	90.9	96.9	6.79	97.7	103.7	3" DIA	- 0'-9 1/2"	11'-11 7/8"	12'-9 3/8"	
53.600NB	65	87	72	111.5	NA	6.79	118.3	NA	3" DIA	NA	14'-8 9/16"	NA	
53.695NB	65	68	84	94.1	94.1	6.79	100.9	100.9	3" DIA	0'-0"	12'-5"	12'-5"	
54.130NB	66	60	84	103.3	110.8	6.79	110.1	117.6	3" DIA	- 0'-11 7/8"	13'-7 1/2"	14'-7 3/8"	
54.375NB	66	74	84	112.1	119.6	6.79	118.9	126.4	3" DIA	- 0'-11 7/8"	14'-9 1/2"	15'-9 3/8"	
54.965NB	66	50	84	92.8	95.0	6.79	99.6	101.8	3" DIA	- 0'-3 1/2"	12'-2 7/8"	12'-6 3/8"	
56.450NB	67	50	84	89.9	96.8	6.79	96.7	103.6	3" DIA	- 0'-10 7/8"	11'-10 3/8"	12'-9 1/4"	
56.450NB	67	50	84	82.7	82.7	6.79	89.5	89.5	3" DIA	0'-0"	10'-11"	10'-11"	
58.604NB	68	60	84	90.4	92.9	6.79	97.2	99.6	3" DIA	- 0'-3 7/8"	11'-11 1/8"	12'-3"	
59.075NB	68	87	72	100.5	NA	6.79	107.3	NA	3" DIA	NA	13'-3 1/8"	NA	
59.160NB	68	18	84	64.8	72.7	6.79	71.6	79.5	3" DIA	- 1'-1/2"	8'-6 5/8"	9'-7 1/8"	
59.800NB	69	60	84	96.3	101.4	6.79	103.1	108.2	3" DIA	- 0'-8"	12'-8 1/2"	13'-4 1/2"	
59.800NB MED	69	60	84	89.1	89.1	6.79	95.9	95.9	3" DIA	0'-0"	11'-9"	11'-9"	
21.720SB	70	87	72	104.9	NA	6.79	111.7	NA	3" DIA	NA	13'-10 1/8"	NA	
21.915SB	70	50	84	87.9	99.1	6.79	94.7	105.9	3" DIA	- 1'-5 3/4"	11'-7 3/16"	13'-15/16"	
22.367SB	70	60	84	85.6	86.2	6.79	92.4	93.0	3" DIA	- 0'-1"	11'-3 1/2"	11'-4 1/2"	
29.370SB	71	60	84	90.4	94.9	6.79	97.2	101.7	3" DIA	- 0'-7 1/8"	11'-11 3/16"	12'-6 5/16"	
29.370SB MED	71	60	84	89.1	89.1	6.79	95.9	95.9	3" DIA	0'-0"	11'-9"	11'-9"	
29.748.SB	71	78	84	104.5	107.0	6.79	111.3	113.8	3" DIA	- 0'-3 7/8"	13'-9 1/2"	14'-1 3/8"	
30.100SB	72	18	84	73.2	81.2	6.79	80.0	88.0	3" DIA	- 1'-5/8"	9'-7 7/8"	10'-8 1/2"	
30.365SB	72	87	72	103.2	NA	6.79	109.9	NA	3" DIA	NA	13'-7 5/16"	NA	
30.440SB	72	36	84	80.0	88.7	6.79	86.8	95.5	3" DIA	- 1'-1 3/4"	10'-6 5/8"	11'-8 3/8"	
31.050SB	72	60	84	87.4	85.2	6.79	94.2	92.0	3" DIA	0'-3 7/16"	11'-6 5/16"	11'-2 7/8"	
33.600SB	73	50	84	89.5	93.3	6.79	96.3	100.1	3" DIA	- 0'-6"	11'-9 3/4"	12'-3 3/4"	
41.550SB	74	60	84	96.4	103.1	6.79	103.2	109.9	3" DIA	- 0'-10 5/8"	12'-8 5/8"	13'-7 1/4"	
41.550SB MED	74	60	84	89.1	89.1	6.79	95.9	95.9	3" DIA	0'-0"	11'-9"	11'-9"	
42.245SB	75	87	72	113.0	NA	6.79	119.8	NA	3" DIA	NA	14'-10 15/16	NA	
42.320SB	75	36	84	79.1	84.8	6.79	85.9	91.6	3" DIA	- 0'-8 15/16'	10'-5 1/4"	11'-2 3/16"	
43.075SB	75	60	84	95.1	96.5	6.79	101.9	103.3	3" DIA	- 0'-2 1/8"	12'-6 5/8"	12'-8 3/4"	
45.695SB	76	60	84	94.2	101.2	6.79	100.9	108.0	3" DIA	- 0'-11 3/16'	12'-5 1/16"	13'-4 1/4"	
46.200 SB	76	18	84	69.7	75.0	6.79	76.5	81.8	3" DIA	- 0'-8 3/8"	9'-2 3/8"	9'-10 3/4"	
46.350 SB	77	87	72	106.6	NA	6.79	113.4	NA	3" DIA	NA	14'-3/4"	NA	
46.430 SB	77	36	84	80.0	86.9	6.79	86.8	93.7	3" DIA	- 0'-11"	10'-6 5/8"	11'-5 5/8"	
46.760 SB	77	48	84	96.1	99.6	6.79	102.9	106.4	3" DIA	- 0'-5 5/8"	12'-8 1/8"	13'-1 3/4"	
46.813 SB	77	60	84	93.6	94.2	6.79	100.4	101.0	3" DIA	- 0'-7/8"	12'-4 1/4"	12'-5 1/8"	
49.220 SB	78	60	84	100.2	108.4	6.79	107.0	115.2	3" DIA	- 1'-7/8"	13'-2 11/16"	14'-3 9/16"	
49.220SB MED	78	60	84	89.1	89.1	6.79	95.9	95.9	3" DIA	0'-0"	11'-9"	11'-9"	
49.470 SB	78	36	84	83.2	55.7	6.79	90.0	62.5	3" DIA	3'-7 9/16"	10'-11 11/16	7'-4 1/8"	

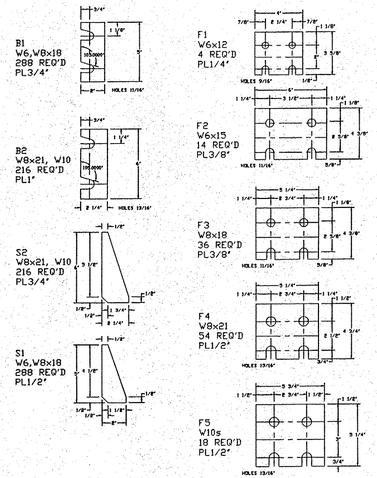
Mile Marker	Sheet	sign ht (in)	ht above shoulder (in)	wt A stem (lbs)	wt B stem (lbs)	PL wt (lbs)	Total wt A (lbs)	Total wt B (lbs)	Size	delta A B	A length	B length	C length
50.110 SB	79	87	72	109.0	NA	6.79	115.8	NA	3" DIA	NA	14'-4 9/16"	NA	
50.185 SB	79	36	84	82.1	88.9	6.79	88.9	95.7	3" DIA	- 0'-10 7/8"	10'-9 15/16"	11'-8 13/16"	
50.500 SB	79	50	84	91.2	95.1	6.79	98.0	101.9	3" DIA	- 0'-6 1/8"	12'-3/8"	12'-6 1/2"	
50.605 SB	79	60	84	88.6	89.7	6.79	95.4	96.5	3" DIA	- 0'-1 3/4"	11'-8 1/4"	11'-10"	
52.105 SB	80	60	84	94.1	98.9	6.79	100.9	105.7	3" DIA	- 0'-7 5/8"	12'-5"	13'-5/8"	
52.105SB MED	80	60	84	89.1	89.1	6.79	95.9	95.9	3" DIA	0'-0"	11'-9"	11'-9"	
52.673 SB	81	87	72	104.9	NA	6.79	111.7	NA	3" DIA	NA	13'-10 1/8"	NA	
52.756 SB	81	50	84	85.7	90.9	6.79	92.5	97.7	3" DIA	- 0'-8 3/16"	11'-3 11/16"	11'-11 7/8"	
53.100 SB	81	50	84	93.3	89.5	6.79	100.1	96.2	3" DIA	0'-6 1/8"	12'-3 3/4"	11'-9 5/8"	
53.178 SB	81	60	84	100.4	108.3	6.79	107.1	115.0	3" DIA	- 1'-1/2"	13'-2 7/8"	14'-3 3/8"	
54.049 SB	82	50	84	88.7	94.4	6.79	95.5	101.1	3" DIA	- 0'-9"	11'-8 3/8"	12'-5 3/8"	
55.259 SB	83	48	84	86.3	96.4	6.79	93.1	103.2	3" DIA	- 1'-4"	11'-4 5/8"	12'-8 5/8"	
57.600 SB	83	60	84	95.7	108.4	6.79	102.4	115.2	3" DIA	- 1'-8 1/4"	12'-7 7/16"	14'-3 11/16"	
58.255 SB	84	87	72	93.1	NA	6.79	99.9	NA	3" DIA	NA	12'-3 7/16"	NA	
58.330 SB	84	36	84	78.2	85.0	6.79	85.0	91.7	3" DIA	- 0'-10 5/8"	10'-3 7/8"	11'-2 1/2"	
58.846 SB	84	60	84	98.1	96.1	6.79	104.9	102.9	3" DIA	0'-3 1/8"	12'-11 5/16"	12'-8 3/16"	
0.150 RAMP D RT	87	51	84	91.1	96.6	6.79	97.9	103.4	3" DIA	- 0'-8 3/4"	12'-3/16"	12'-8 15/16"	
1.690VT107LT	88	36	84	81.5	85.3	6.79	88.3	92.1	3" DIA	- 0'-6"	10'-9"	11'-3"	
1.721VT107LT	88	102	84	121.1	117.5	6.79	127.9	124.3	3" DIA	0'-5 3/4"	15'-11 3/4"	15'-6"	
1.960VT107	90	102	84	115.6	115.6	6.79	122.4	122.4	3" DIA	0'-0"	15'-3"	15'-3"	
200VT107LT	90	36	84	86.4	91.7	6.79	93.2	98.5	3" DIA	- 0'-8 5/16"	11'-4 13/16"	12'-1 1/8"	
0.030RAMP	91	72	84	98.9	99.9	6.79	105.6	106.7	3" DIA	- 0'-1 11/16'	13'-1/2"	13'-2 3/16"	
0.150RAMP	91	51	84	84.6	85.7	6.79	91.4	92.5	3" DIA	- 0'-1 3/4"	11'-2"	11'-3 3/4"	
0.200RAMP	91	44	84	83.5	91.0	6.79	90.2	97.8	3" DIA	- 1'-0"	11'-1/8"	12'-1/8"	
0.250 RAMP	91	60	84	90.9	93.2	6.79	97.7	100.0	3" DIA	- 0'-3 3/4"	11'-11 7/8"	12'-3 5/8"	
2.380VT66RT	93	36	84	74.5	77.1	6.79	81.3	83.9	3" DIA	- 0'-4 1/8"	9'-9 15/16"	10'-2 1/16"	
2.430VT66CL	94	48	84	81.7	92.2	6.79	88.5	99.0	3" DIA	- 1'-4 5/8"	10'-9 3/8"	12'-2"	
2.43VT66RT	94	51	84	84.6	84.6	6.79	91.4	91.4	3" DIA	0'-0"	11'-2"	11'-2"	
2.440VT66RT	95	51	84	92.2	101.5	6.79	99.0	108.3	3" DIA	- 1'-2 5/8"	12'-2"	13'-4 5/8"	
2.665VT66LT	98	36	84	76.5	79.9	6.79	83.3	86.7	3" DIA	- 0'-5 7/16"	10'-1 1/8"	10'-6 9/16"	
2.670VT66RT	98	48	84	78.6	81.2	6.79	85.4	88.0	3" DIA	- 0'-4 1/8"	10'-4 1/2"	10'-8 5/8"	
0.071RAMP	99	102	84	119.5	123.8	6.79	126.3	130.6	3" DIA	- 0'-6 3/4"	15'-9 3/16"	16'-3 15/16"	
0.099RAMP	99	36	84	78.7	88.2	6.79	85.5	95.0	3" DIA	- 1'-3 1/16"	10'-4 5/8"	11'-7 11/16"	
0.127RAMP-1	99	72	84	101.5	109.1	6.79	108.3	115.9	3" DIA	- 1'-0"	13'-4 3/4"	14'-4 3/4"	
0.127RAMP-2	99	50	84	91.0	95.8	6.79	97.8	102.6	3" DIA	- 0'-7 5/8"	12'-0"	12'-7 5/8"	
0.146RAMP	100	102	84	114.9	116.0	6.79	121.7	122.8	3" DIA	- 0'-1 3/4"	15'-1 7/8"	15'-3 5/8"	
INT5 0.040RAMP	100	72	84	101.2	108.0	6.79	108.0	114.8	3" DIA	- 0'-10 3/4"	13'-4 1/4"	14'-3"	
0.138RAMP-1	101	72	84	101.9	109.0	6.79	108.6	115.8	3" DIA	- 0'-11 3/8"	13'-5 1/4"	14'-4 5/8"	
0.138RAMP-2	101	50	84	89.0	98.3	6.79	95.8	105.1	3" DIA	- 1'-2 3/4"	11'-8 7/8"	12'-11 5/8"	
0.158RAMP	102	102	84	122.6	134.0	6.79	129.4	140.8	3" DIA	- 1'-6 1/8"	16'-2 1/16"	17'-8 3/16"	
0.160VT64RT	103	48	84	91.4	92.9	6.79	98.2	99.6	3" DIA	- 0'-2 5/16"	12'-11/16"	12'-3"	
0.200VT64RT	103	51	84	85.6	89.4	6.79	92.4	96.2	3" DIA	- 0'-5 15/16'	11'-3 9/16"	11'-9 1/2"	
0.270VT64RT	104	51	84	88.2	95.4	6.79	95.0	102.2	3" DIA	- 0'-11 3/8"	11'-7 5/8"	12'-7"	
0.310VT64RT	105	51	84	89.0	91.7	6.79	95.8	98.5	3" DIA	- 0'-4 1/4"	11'-8 7/8"	12'-1 1/8"	
0.495VT64RT	107	48	84	94.0	105.6	6.79	100.8	112.4	3" DIA	- 1'-6 7/16"	12'-4 3/4"	13'-11 3/16"	
0.150RAMP	108	60	84	94.4	NA	6.79	101.2	NA	3" DIA	NA	12'-5 1/2"	NA	
0.050VT63LT	109	72	84	101.0	105.1	6.79	107.8	111.9	3" DIA	- 0'-6 1/2"	13'-3 15/16"	13'-10 7/16"	
0.205VT63LT	110	51	84	91.9	99.6	6.79	98.7	106.4	3" DIA	- 1'-5/16"	12'-1 7/16"	13'-1 3/4"	
0.240VT63LT	110	36	84	75.9	81.9	6.79	82.7	88.7	3" DIA	- 0'-9 1/2"	10'-1/8"	10'-9 5/8"	
0.252VT63RT	110	60	84	94.5	NA	6.79	101.3	NA	3" DIA	NA	12'-5 11/16"	NA	
0.380VT62RT	114	51	84	91.3	95.5	6.79	98.1	102.3	3" DIA	- 0'-6 3/4"	12'-1/2"	12'-7 1/4"	
0.477VT62LT	115	51	84	88.2	92.6	6.79	95.0	99.4	3" DIA	- 0'-6 7/8"	11'-7 11/16"	12'-2 9/16"	
INT80.050RAMP	116	72	84	98.5	103.6	6.79	105.3	110.4	3" DIA	- 0'-8"	13'-0"	13'-8"	
0.080MSHLT	117	72	84	105.3	108.8	6.79	112.1	115.6	3" DIA	- 0'-5 1/2"	13'-10 3/4"	14'-4 1/4"	
0.250MSHLT	118	51	84	88.4	103.6	6.79	95.1	110.3	3" DIA	- 2'-1/16"	11'-7 7/8"	13'-7 15/16"	
0.075RAMP	120	51	84	91.0	95.1	6.79	97.8	101.9	3" DIA	- 0'-6 9/16"	12'-1/16"	12'-6 5/8"	
0.105 RAMP	120	58	84	97.8	98.2	6.79	104.5	105.0	3" DIA	- 0'-11/16"	12'-10 3/4"	12'-11 7/16"	
INT90.030RAMP	121	72	84	96.3	102.1	6.79	103.0	108.8	3" DIA	- 0'-9 3/16"	12'-8 3/8"	13'-5 9/16"	
0.072RAMP	121	51	84	102.8	102.8	6.79	109.6	109.6	3" DIA	0'-0"	13'-6 11/16"	13'-6 11/16"	
0.110 RAMP	121	34	84	92.0	97.9	6.79	98.8	104.7	3" DIA	- 0'-9 3/8"	12'-1 11/16"	12'-11 1/16"	
0.050MSHRT	123	51	84	86.8	90.9	6.79	93.6	97.7	3" DIA	- 0'-6 1/2"	11'-5 3/8"	11'-11 7/8"	
0.125MSHLT-1	124	51	84	94.3	97.2	6.79	101.1	104.0	3" DIA	- 0'-4 5/8"	12'-5 5/16"	12'-9 15/16"	
0.125MSHLT-2	124	51	84	85.9	89.7	6.79	92.7	96.5	3" DIA	- 0'-6"	11'-4 1/16"	11'-10 1/16"	
0.185MSHLT	124	48	84	83.4	84.2	6.79	90.2	91.0	3" DIA	- 0'-1 1/4"	11'-0"	11'-1 1/4"	
0.87RAMP A LT	126	42	84	79.8	83.4	6.79	86.6	90.2	3" DIA	- 0'-5 5/8"	10'-6 3/8"	11'-0"	
23.025NB	54	108	72	160.8	173.3	6.79	167.6	180.1	3.5" DIA	- 1'-4 7/16"	17'-7 9/16"	19'-0"	
23.210NB	54	48	84	136.6	172.2	6.79	143.4	179.0	3.5" DIA	- 3'-10 13/1	14'-11 3/4"	18'-10 9/16"	
31.715NB	56	108	72	147.7	156.9	6.79	154.5	163.7	3.5" DIA	- 1'-1/8"	16'-2 3/8"	17'-2 1/2"	
31.930NB	56	48	84	112.7	125.9	6.79	119.5	132.7	3.5" DIA	- 1'-5 5/16"	12'-4 5/16"	13'-9 5/8"	
43.540NB	59	108	72	141.1	145.6	6.79	147.9	152.4	3.5" DIA	- 0'-6"	15'-5 5/8"	15'-11 5/8"	
47.585NB	61	108	72	144.9	162.3	6.79	151.7	169.1	3.5" DIA	- 1'-10 7/8"	15'-10 11/16	17'-9 9/16"	
50.990NB	63	108	72	136.8	141.0	6.79	143.6	147.8	3.5" DIA	- 0'-5 1/2"	15'-0"	15'-5 1/2"	
53.790NB	66	108	72	136.8	141.0	6.79	143.6	147.8	3.5" DIA	- 0'-5 1/2"	15'-0"	15'-5 1/2"	
59.265NB	68	108	72	146.4	150.5	6.79	153.2	157.3	3.5" DIA	- 0'-5 3/8"	16'-5/8"	16'-6"	
21.520SB	70	108	72	138.2	147.3	6.79	145.0	154.1	3.5" DIA	- 1'-0"	15'-1 7/8"	16'-1 7/8"	
29.900SB	72	36	84	97.2	104.6	6.79	104.0	111.4	3.5" DIA	- 0'-9 3/4"	10'-7 7/8"	11'-5 5/8"	
30.000SB	72	108	72	146.0	151.0	6.79	152.8	157.8	3.5" DIA	- 0'-6 9/16"	16'-1/8"	16'-6 11/16"	
38.150SB	74	60	84	113.5	112.5	6.79	120.3	119.3	3.5" DIA	0'-1 3/8"	12'-5 3/8"	12'-4"	
41.840SB	74	36	84	106.9	138.9	6.79	113.7	145.7	3.5" DIA	- 3'-6 1/8"	11'-8 5/8"	15'-2 3/4"	
42.055SB	74	108	72	144.9	163.5	6.79	151.7	170.3	3.5" DIA	- 2'-1/2"	15'-10 11/16	17'-11 3/16"	
45.945SB	76	36	84	104.6	124.6	6.79	111.4	131.4	3.5" DIA	- 2'-2 3/8"	11'-5 5/8"	13'-8"	
46.100 SB	76	108	72	141.7	148.2	6.79	148.5	155.0	3.5" DIA	- 0'-8 9/16"	15'-6 7/16"	16'-3"	
49.870 SB	78	108	72	139.5	148.5	6.79	146.3	155.3	3.5" DIA	- 0'-11 7/8"	15'-3 1/2"	16'-3 3/8"	
52.355 SB	80	36	84	113.3	106.5	6.79	120.1	113.3	3.5" DIA	0'-9"	12'-5 1/8"	11'-8 1/8"	
52.500 SB	80	108	72	142.5	153.1	6.79	149.3	159.9	3.5" DIA	- 1'-2"	15'-7 1/2"	16'-9 1/2"	
57.850 SB	83	36	84	112.4	109.0	6.79	119.2	115.8	3.5" DIA	0'-4 9/16"	12'-3 15/16"	11'-11 3/8"	
58.070 SB	84	108	72	140.9	149.4	6.79	147.7	156.2	3.5" DIA	- 0'-11 1/4"	15'-5 3/8"	16'-4 5/8"	
0.000MSHRT	122	51	84	109.3	108.2	6.79	116.0	115.0	3.5" DIA	0'-1 3/8"	11'-11 3/4"	11'-10 3/8"	
0.040MSH	122	51	84	105.4	110.0	6.79	112.1	116.8	3.5" DIA	- 0'-6 1/8"	11'-6 5/8"	12'-3/4"	
33.426NB	56	84	84	172.0	194.4	14.79	186.8	209.2	4" DIA	- 2'-7/8"	15'-11 1/8"	18'-0"	
52.220 SB	80	54	84	135.2	147.8	14.79	150.0	162.6	4" DIA	- 1'-1 15/16'	12'-6 1/4"	13'-8 3/16"	
41.990NB	57	84	84	200.8	200.8	15.38	216.1	216.1	5.0" DIA	0'-0"	13'-9"	13'-9"	
57.800NB	67	84	84	232.8	278.2	15.38	248.2	293.5	5.0" DIA	- 3'-1 1/4"	15'-11 3/8"	19'-5/8"	
30.200SB	72	60	84	184.6	191.9	15.38	200.0	207.3	5.0" DIA	- 0'-6"	12'-7 3/4"	13'-1 3/4"	
33.654SB	73	136	84	321.2	345.4	15.38	336.6	360.8	5.0" DIA	- 1'-7 7/8"	22'-0"	23'-7 7/8"	
47.660SB	78	84	84	248.3	285.8	15.38	263.7	301.2	5.0" DIA	- 2'-6 7/8"	17'-1/16"	19'-6 15/16"	

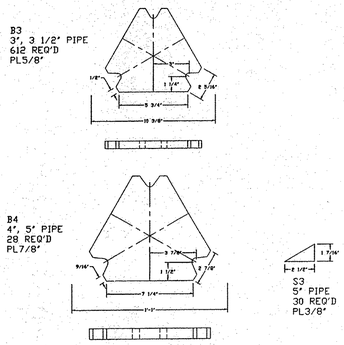
NOTE: ALL W-SHAPES AASHTO M270 GR. 36 OR 50
NOTE: ALL PLATES AASHTO M270 GR. 36 OR 50
NOTE: ALL ROUND HSS SHAPES ASTM A500 GR. B
NOTE: ALL PIPE SHAPES ASTM A53 GR. B

CCS CONSTRUCTORS, LLC
138 MUNSON AVE.
MORRISVILLE, VT 05661
PH. 802-888-7701
FX. 802-888-4746

FINISH:
GALVANIZE TO AASHTO M111

REVISION 1	2/23/10	UPPER 5'
PROJECT NAME: ROYALTON-MIDDLESEX		PROJECT NO. IMG SIGN(19)
UPPERS		DRAWING NO. 2 of 2
SCALE 1"=1'	DATE 2/23/10	
DRAWN: EB	SUPERVISOR: AW	
TOWNS: ROYALTON, BETHEL, RANDOLF NORTHFIELD, BARRE, MONTPELIER, MIDDLESEX		

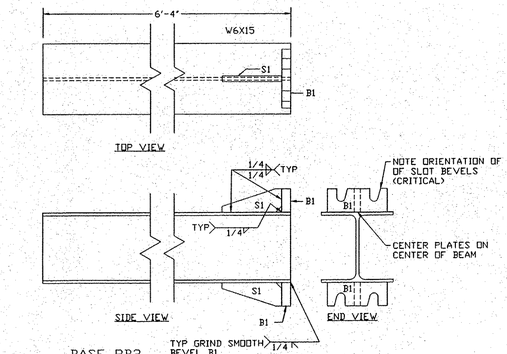




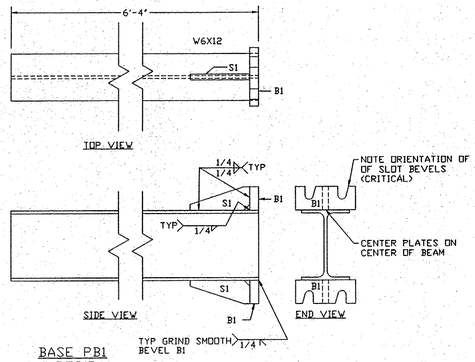
PARTS

PIECE	QUANTITY	ITEM	WEIGHT EA.
B1	288	PL3/4"	1.79 LBS
B2	216	PL1"	3.29 LBS
S1	288	PL1/2"	0.92 LBS
S2	216	PL3/4"	1.82 LBS
F1	4	PL1/4"	0.94 LBS
F2	14	PL3/8"	2.58 LBS
F3	36	PL3/8"	2.23 LBS
F4	54	PL1/2"	3.14 LBS
F5	18	PL1/2"	3.89 LBS
B3	612	PL5/8"	6.79 LBS
B4	28	PL7/8"	14.79 LBS
S3	30	PL3/8"	0.20 LBS
W6X12	4	6'-4"	76 LBS
W6X15	14	6'-4"	95 LBS
W8X18	34	6'-4"	114 LBS
W8X18	2	8'-4"	150 LBS
W8X21	53	6'-4"	133 LBS
W8X21	1	8'-4"	175 LBS
W10X22	12	6'-4"	139.33 LBS
W10X22	2	8'-4"	183.33 LBS
W10X26	4	6'-4"	164.66 LBS
HSS 3.500X0.216	258	6'-3"	47.38 LBS
PIPE 3 1/2" STD	48	6'-3"	57 LBS
PIPE 4" STD	4	6'-3"	67.5 LBS
PIPE 5" STD	10	6'-3"	91.25 LBS

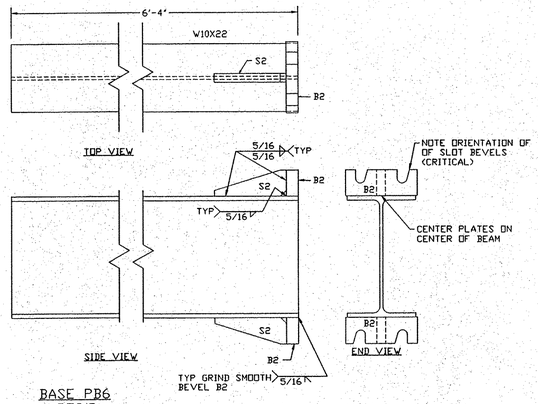
NOTE: ALL W-SHAPES AASHTO M270 GR. 36 OR 50
NOTE: ALL PLATES AASHTO M270 GR. 36 OR 50
NOTE: ALL ROUND HSS SHAPES ASTM A500 GR. B
NOTE: ALL PIPE SHAPES ASTM A53 GR. B



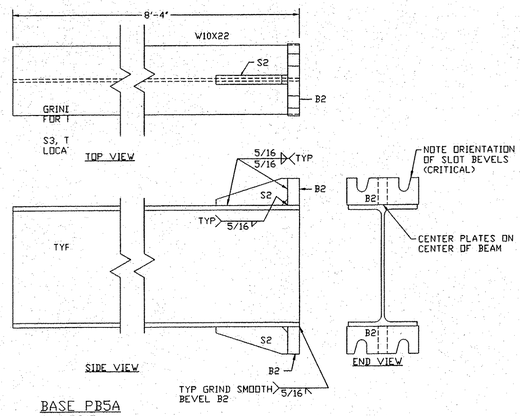
BASE PB2
14 REQ'D
W6x15



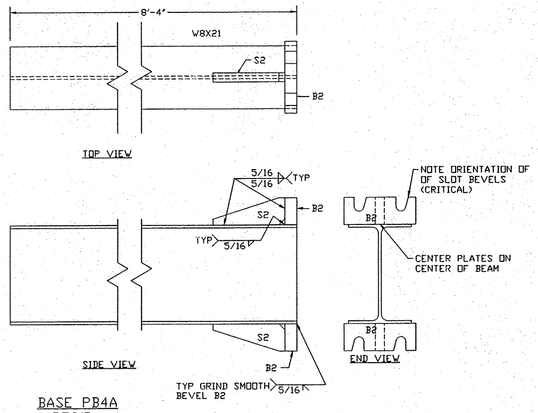
BASE PB1
4 REQ'D
W6x12



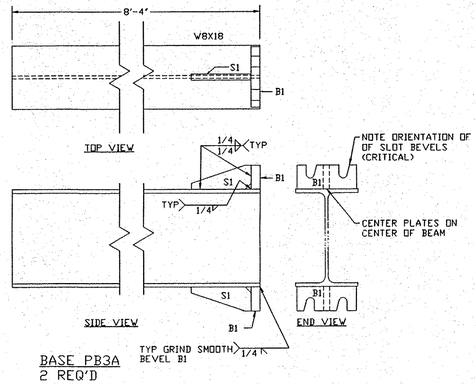
BASE PB6
4 REQ'D
W10x26



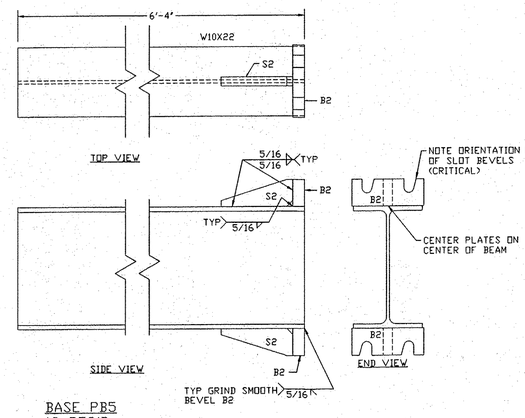
BASE PB5A
2 REQ'D
W10x22



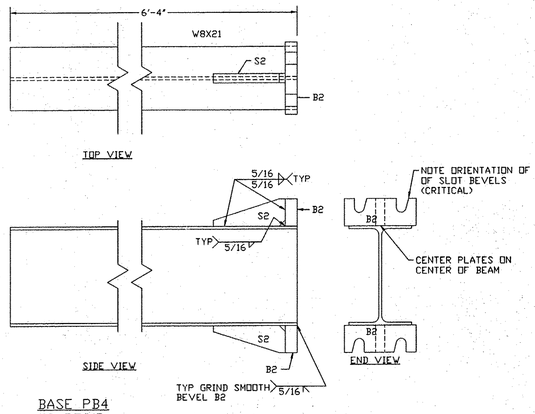
BASE PB4A
1 REQ'D
W8x21



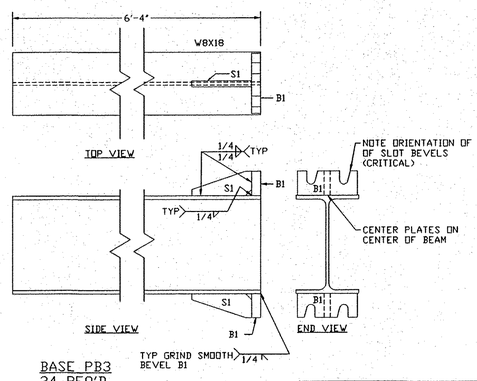
BASE PB3A
2 REQ'D
W8x18



BASE PB5
12 REQ'D
W10x22



BASE PB4
53 REQ'D
W8x21



BASE PB3
34 REQ'D
W8x18

PB1: 4 REQ'D

PIECE	QUANTITY	ITEM	WEIGHT EA.	TOTAL WT.
B1	2	PL3/4"	1.79 LBS	3.58 LBS
S1	2	PL1/2"	0.92 LBS	1.84 LBS
W6x12	1	W6x12	76 LBS	76 LBS
				81.42 LBS EA.

BOLTS:
4- 5/8"X 3 1/2" A325 MG BOLTS

PB2: 14 REQ'D

PIECE	QUANTITY	ITEM	WEIGHT EA.	TOTAL WT.
B1	2	PL3/4"	1.79 LBS	3.58 LBS
S1	2	PL1/2"	0.92 LBS	1.84 LBS
W6x15	1	W6x15	95 LBS	95 LBS
				100.42 LBS EA.

BOLTS:
4- 5/8"X 3 1/2" A325 MG BOLTS

PB3: 34 REQ'D

PIECE	QUANTITY	ITEM	WEIGHT EA.	TOTAL WT.
B1	2	PL3/4"	1.79 LBS	3.58 LBS
S1	2	PL1/2"	0.92 LBS	1.84 LBS
W8x18	1	W8x18	114 LBS	114 LBS
				119.42 LBS EA.

BOLTS:
4- 5/8"X 3 1/2" A325 MG BOLTS

PB3A: 2 REQ'D

PIECE	QUANTITY	ITEM	WEIGHT EA.	TOTAL WT.
B1	2	PL3/4"	1.79 LBS	3.58 LBS
S1	2	PL1/2"	0.92 LBS	1.84 LBS
W8x18	1	W8x18	150 LBS	150 LBS
				155.42 LBS EA.

BOLTS:
4- 5/8"X 3 1/2" A325 MG BOLTS

PB4: 53 REQ'D

PIECE	QUANTITY	ITEM	WEIGHT EA.	TOTAL WT.
B2	2	PL1"	3.29 LBS	6.58 LBS
S2	2	PL3/4"	1.82 LBS	3.64 LBS
W8x21	1	W8x21	133 LBS	133 LBS
				143.22 LBS EA.

BOLTS:
4- 3/4"X 4 1/2" A325 MG BOLTS

PB4A: 1 REQ'D

PIECE	QUANTITY	ITEM	WEIGHT EA.	TOTAL WT.
B2	2	PL1"	3.29 LBS	6.58 LBS
S2	2	PL3/4"	1.82 LBS	3.64 LBS
W8x21	1	W8x21	175 LBS	175 LBS
				185.22 LBS EA.

BOLTS:
4- 3/4"X 4 1/2" A325 MG BOLTS

PB5: 12 REQ'D

PIECE	QUANTITY	ITEM	WEIGHT EA.	TOTAL WT.
B2	2	PL1"	3.29 LBS	6.58 LBS
S2	2	PL3/4"	1.82 LBS	3.64 LBS
W10x22	1	W10x22	139.33 LBS	139.33 LBS
				149.55 LBS EA.

BOLTS:
4- 3/4"X 4 1/2" A325 MG BOLTS

PB5A: 2 REQ'D

PIECE	QUANTITY	ITEM	WEIGHT EA.	TOTAL WT.
B2	2	PL1"	3.29 LBS	6.58 LBS
S2	2	PL3/4"	1.82 LBS	3.64 LBS
W10x22	1	W10x22	183.33 LBS	183.33 LBS
				193.55 LBS EA.

BOLTS:
4- 3/4"X 4 1/2" A325 MG BOLTS

PB6: 4 REQ'D

PIECE	QUANTITY	ITEM	WEIGHT EA.	TOTAL WT.
B2	2	PL1"	3.29 LBS	6.58 LBS
S2	2	PL3/4"	1.82 LBS	3.64 LBS
W10x26	1	W10x26	164.66 LBS	164.66 LBS
				174.88 LBS EA.

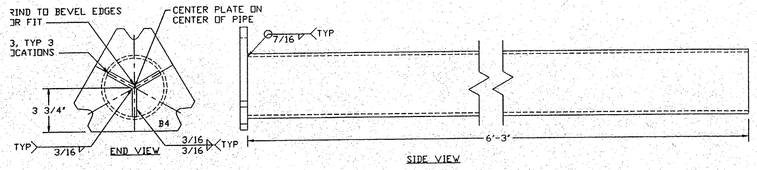
BOLTS:
4- 3/4"X 4 1/2" A325 MG BOLTS

REVISION 1	2/23/10	PB10

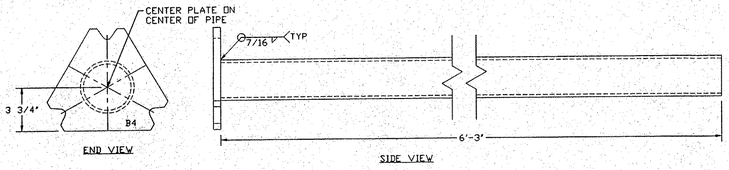
CCS CONSTRUCTORS, LLC
138 MUNSON AVE.
MORRISVILLE, VT 05661
PH. 802-888-7701
FX. 802-888-4746

PROJECT NAME	PROJECT NO.
ROYALTON-MIDDLESEX	IMG SIGN(19)
PARTS, W BASES	DRAWING NO. 1 of 2
SCALE 1"=1" / DATE 2/23/10	
DRAWN: EB	SUPERVISOR: AW
TOWNS: ROYALTON, BETHEL, RANDOLF NORTHFIELD, BARRE, MONTPELIER, MIDDLESEX	

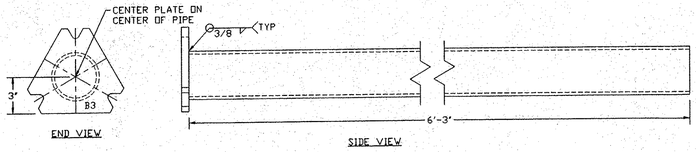
FINISH:
GALVANIZE TO AASHTO M111



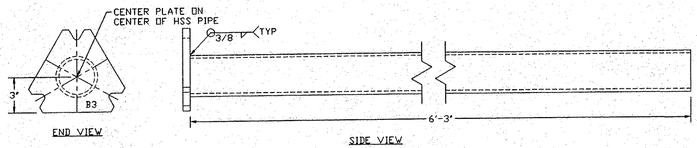
BASE PB10
48 REQ'D
PIPE5" STD.



BASE PB9
48 REQ'D
PIPE4" STD.



BASE PB8
48 REQ'D
PIPE3 1/2" STD.



BASE PB7
258 REQ'D
HSS3.500X0.216

PB7: 258 REQ'D

PIECE	QUANTITY	ITEM	WEIGHT EA.	TOTAL WT.
B3	1	PL5/8"	6.79 LBS	6.79 LBS
HSS 3.500X0.216	1	-	47.38 LBS	47.38 LBS
				54.17 LBS

BOLTS:
3- 5/8"X 3 1/4" A325 MG BOLTS

PB8: 48 REQ'D

PIECE	QUANTITY	ITEM	WEIGHT EA.	TOTAL WT.
B3	1	PL5/8"	6.79 LBS	6.79 LBS
PIPE 3 1/2" STD	1	-	57 LBS	57 LBS
				63.79 LBS

BOLTS:
3- 5/8"X 3 1/4" A325 MG BOLTS

PB9: 4 REQ'D

PIECE	QUANTITY	ITEM	WEIGHT EA.	TOTAL WT.
B4	1	PL7/8"	1.79 LBS	14.79 LBS
PIPE 4" STD	1	-	67.5 LBS	67.5 LBS
				82.29 LBS

BOLTS:
3- 3/4"X 3 3/4" A325 MG BOLTS

PB10: 10 REQ'D

PIECE	QUANTITY	ITEM	WEIGHT EA.	TOTAL WT.
S3	3	PL3/8"	0.20 LBS	0.60 LBS
B4	1	PL7/8"	1.79 LBS	14.79 LBS
PIPE 5" STD	1	-	91.25 LBS	91.25 LBS
				106.64 LBS

BOLTS:
3- 3/4"X 3 3/4" A325 MG BOLTS

Received
2/26/10

	REVISION 1	2/23/10	PB10
CCS CONSTRUCTORS, LLC 138 MUNSON AVE. MORRISVILLE, VT 05661 PH. 802-888-7701 FX. 802-888-4746	PROJECT NAME ROYALTON-MIDDLESEX		PROJECT NO. IMG SIGN(19)
	HSS AND PIPE BASES		DRAWING NO. 2 of 2
	SCALE 1"=1'	DATE 2/23/10	
FINISH: GALVANIZE TO AASHTO M111	DRAWN: EB		SUPERVISOR: AW
	TOWNS: ROYALTON, BETHEL, RANDOLF NORTHFIELD, BARRE, MONTPELIER, MIDDLESEX		