STATE OF VERMONT
AGENCY OF TRANSPORTATION

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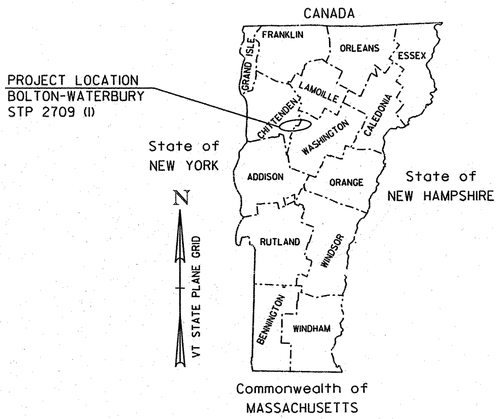
SEE SHEET 2



PROPOSED IMPROVEMENT
TOWNS OF BOLTON AND WATERBURY
COUNTIES OF CHITTENDEN AND WASHINGTON
US ROUTE 2 MAJOR COLLECTOR

PROJECT LOCATION: BEGINNING APPROXIMATELY 2950 FT WEST FROM TH"11 ON US ROUTE 2 IN THE TOWN OF BOLTON, AT MILE MARKER 1.880 = STA. 99+25 AND EXTENDING EASTERLY ALONG US ROUTE 2 FOR A DISTANCE OF 38671.00 FT (7.324 MILES) TO AN ENDING POINT 374.40 FT WEST FROM WALLACE STREET AT MILE MARKER 3.527 = STA. A 186+25.00 IN THE TOWN OF WATERBURY.

STATION TO STATION DATA	LENGTH (FEET)	LENGTH (MILES)
TOWN OF BOLTON STA. 99+25 TO STA. 299+71.00 (MM 1.880 TO MM 5.676)	20046.00	3.797
TOWN OF WATERBURY STA. A 0+00.00 TO STA. A 186+25 (MM 0.000 TO MM 3.527)	18625.00	3.527
TOTAL ROADWAY LENGTH =	38671.00	7.324
TOTAL PROJECT LENGTH =	38671.00	7.324

TRAFFIC DATA

HIGHWAY SECTION	AADT 2013	AADT 2023	DHV 2013	DHV 2023	CUM. ESALS (2013-2023)	CUM. ESALS (2013-2033)
BEGIN PROJECT TO BOLTON VALLEY ACCESS ROAD	3000	3100	420	430	357,000	817,000
BOLTON VALLEY ACCESS ROAD TO LITTLE RIVER ROAD	2700	2800	370	390	606,000	1,304,000
LITTLE RIVER ROAD TO END PROJECT	7700	8000	870	900	1,141,000	2,861,000

PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING, RECLAIMING, CORRECTING SUPERELEVATION DEFICIENCIES, RESURFACING WITH BASE, INTERMEDIATE, AND WEARING COURSES, NEW PAVEMENT MARKINGS, GUARDRAIL IMPROVEMENTS, DRAINAGE IMPROVEMENTS AND OTHER RELATED HIGHWAY ITEMS.

BITUMINOUS CONCRETE SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL	1,430,500
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADED ASPHALT BINDER:	SEE SUBSECTION 490.03B

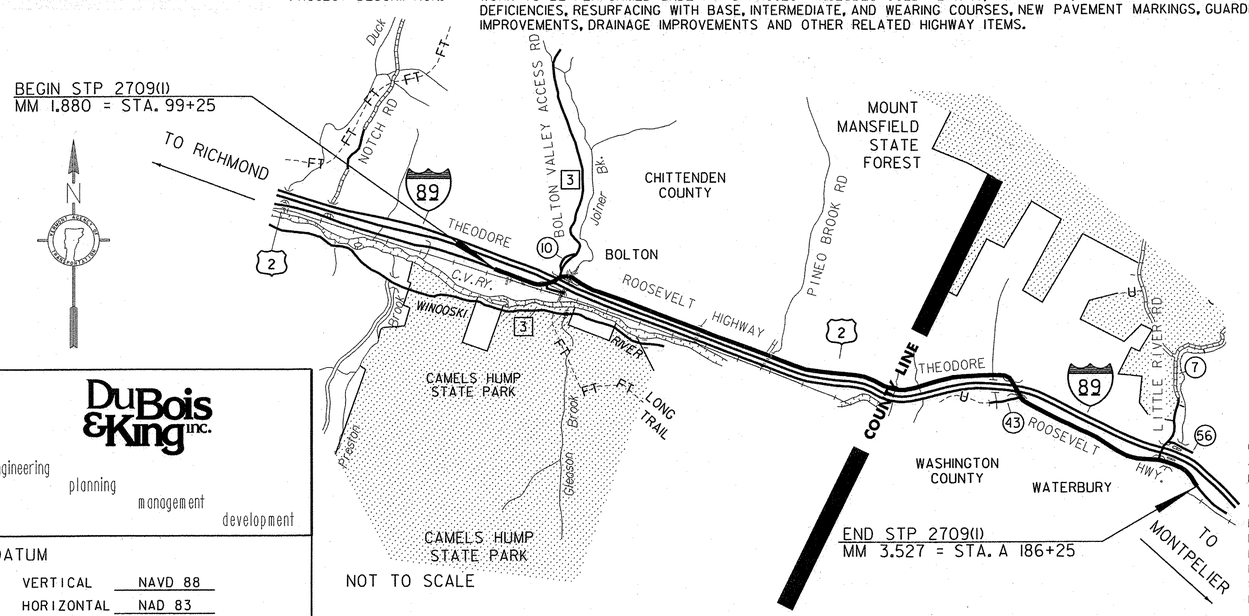
RECORD PLANS

CONTRACTOR: F.W. WHITCOMB CONSTRUCTION CORP. – WALPOLE, NH
RESIDENT ENGINEER: TOM MANCINI
CONSTRUCTION BEGAN: SEPTEMBER 3, 2013
CONSTRUCTION COMPLETE: NOVEMBER 22, 2014
RECORD PLANS BY: TOM MANCINI & AARON JAMES

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

BY _____ RESIDENT ENGINEER
DATE 7/25/16

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.



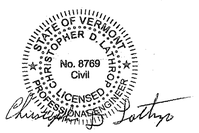
QUALITY ASSURANCE PROGRAM: LEVEL 3

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
SWAMPY AREA
CONTROL OF ACCESS
PROPERTY LINE
R.O.W. TAKING LINE
SLOPE RIGHTS (SR SR SR)
TOP OF CUT
TOE OF SLOPE

DuBois & King inc.
engineering planning management development

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83



STATIONING PREFACE DESIGNATION:
NO DESIGNATION = BOLTON
A = WATERBURY

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 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 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 Kevin A. Marshia DATE 4/18/13

PROJECT MANAGER : MIKE FOWLER, P.E.

PROJECT NAME : BOLTON-WATERBURY
PROJECT NUMBER : STP 2709(I)

SHEET 1 OF 217 SHEETS

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19-20	ITEM DETAIL SUMMARY SHEETS 1-2
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STRUCTURES DETAILS

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VAOT STANDARDS

B-71	STANDARD FOR RESIDENTIAL AND COMMERCIAL DRIVES	07/08/05
D-15	PRECAST REINFORCED CONCRETE CATCH BASIN W/ CAST IRON GRATE PRECAST REINFORCED MAN HOLE W/ CAST IRON COVER CAST IRON GRATE WITH FRAME, TYPE D CAST IRON GRATE WITH FRAME, TYPE E	06/01/94
D-30	UNDERDRAIN CONSTRUCTION DETAILS	08/13/07
E-100	CONSTRUCTION APPROACH SIGNS	01/02/04
E-100A	SIDEROAD CONSTRUCTION APPROACH SIGNS	01/02/04
E-101	CONSTRUCTION SIGN DETAILS	05/30/03
E-102	CONSTRUCTION SIGN DETAILS	06/30/03
E-102A	CONSTRUCTION SIGN DETAILS	05/01/04
E-106	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	03/01/04
E-107	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	06/30/03
E-107A	BREAKAWAY BARRICADE DETAILS	06/08/09
E-108	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS	06/08/09
E-108A	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS FOR PAVING	06/08/09
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E-111	MINOR MAINTENANCE OPERATION	03/11/97
E-112	TYPICAL MOVING MAINTENANCE OPERATIONS	01/23/97
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08/08/95
E-124	TOWN LINE SIGNS	08/08/95
E-134	BRIDGE NUMBER PLAQUE	08/08/95
E-136B	STATE ROUTE MARKER SIGN DETAILS	08/08/95
E-138	MILEMARKER DETAILS - STATE & TOWN HIGHWAYS	05/30/03
E-141	REGULATORY SIGN DETAILS	09/20/95
E-144	REGULATORY SIGN DETAILS	03/29/99
E-146	REGULATORY SIGN DETAILS	09/20/95
E-150	WARNING SIGN DETAILS	05/01/04
E-154	WARNING SIGN DETAILS	05/01/04
E-164	SQUARE STEEL SIGN POST	06/08/09
E-193	PAVEMENT MARKING DETAILS	08/18/95
F-2	CHAIN LINK FENCE (TYPE I)	06/01/94
G-1	STEEL BEAM GUARDRAIL WITH STEEL POSTS	01/03/00
G-1D	STEEL BEAM GUARDRAIL APPROACH END TERMINAL STEEL BEAM GUARDRAIL TRAILING END TERMINAL ANCHOR FOR STEEL BEAM GUARDRAIL STEEL BEAM MEDIAN BARRIER	01/03/00
G-19	GENERIC PLANS FOR GUARDRAIL END TERMINALS	11/15/02
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⚠ REVISED 6/4/13

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PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: x07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07CI72_2.I

PLOT DATE: 04/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 2 OF 217

HVCIRL #1

HVCIRL #1
NORTH = 684389.51
EAST = 1536449.00
ELEV. = 329.01

GENERAL LOCATION, BOLTON, VT.
POINT IS SET OFF THE RIGHT SIDE OF THE EASTBOUND LANE OF U.S. ROUTE 2.
IT IS APPROXIMATELY 275 FT EAST OF THE WESTBOUND MILE MARKER 0020 / 0401 / 0180.
IT IS 8.66 FT NORTH-NORTHWEST OF A TRAFFIC SIGN THAT READS "SHOULDER NARROWS."
IT IS 55.17 FT SOUTH-SOUTHEAST OF COMBO POLE 26623 / 4 / TELCO 152.
IT IS 221.38 FT EAST OF COMBO POLE GMPCO 39 / VTTCO 151 / 22624.
POINT IS #5 REBAR, DRIVEN INTO THE GROUND.

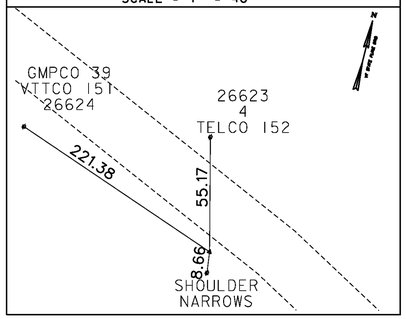
HVCIRL #2

HVCIRL #2
NORTH = 684187.74
EAST = 1536983.45
ELEV. = 328.14

GENERAL LOCATION, BOLTON, VT.
POINT IS SET OFF THE RIGHT SIDE OF THE EASTBOUND LANE OF U.S. ROUTE 2.
IT IS APPROXIMATELY 150 FT WEST OF THE EASTBOUND MILE MARKER 0020 / 0401 / 0200.
IT IS APPROXIMATELY 18 FT EAST OF A GRAVEL DRIVE.
IT IS 128.82 FT SOUTHEAST OF COMBO POLE GMPCO / 42 / 154.
IT IS 56.78 FT SOUTH-SOUTHWEST OF A NAIL IN A LIGHT POLE.
IS IS 105.54 FT WEST-SOUTHWEST OF A NAIL IN A LIGHT POLE.
POINT IS #5 REBAR, DRIVEN INTO THE GROUND.

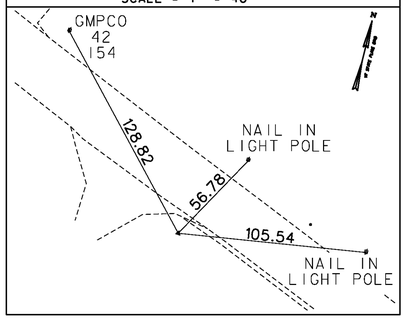
HVCIRL #1

NORTH = 684389.51
EAST = 1536449.00
ELEV. = 329.01
SCALE = 1" = 40'



HVCIRL #2

NORTH = 684187.74
EAST = 1536983.45
ELEV. = 328.14
SCALE = 1" = 40'



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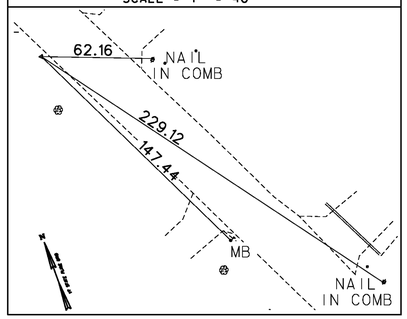
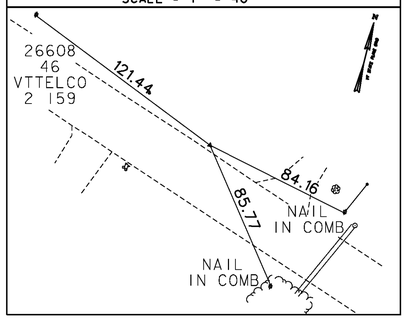
EAST = 1537524.00
ELEV. = 330.47
SCALE = 1" = 40'



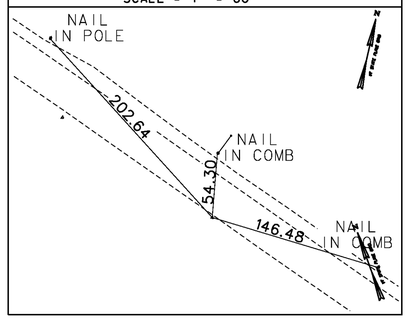
HVCIRL #4

NORTH = 683849.72
EAST = 1538055.45
ELEV. = 328.17
SCALE = 1" = 40'



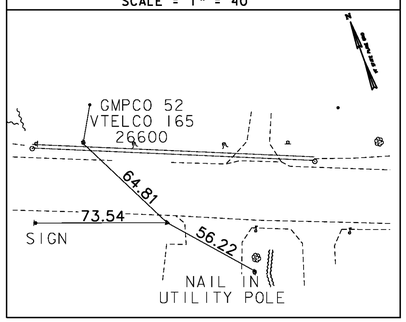
HVCIRL #5

NORTH = 683621.24
EAST = 1538551.01
ELEV. = 328.69
SCALE = 1" = 60'



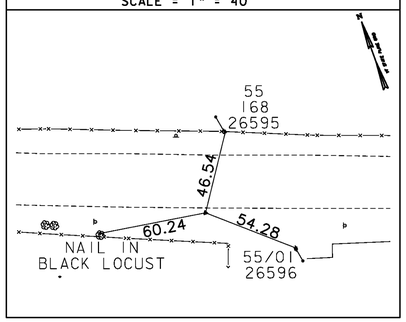
HVCIRL #6

NORTH = 683397.93
EAST = 1539099.22
ELEV. = 334.17
SCALE = 1" = 40'



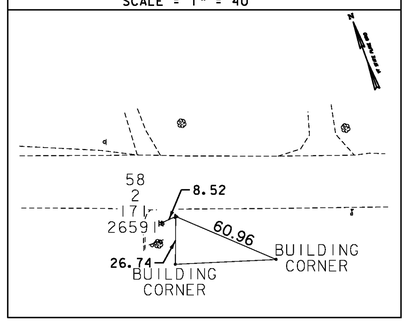
HVCIRL #7

NORTH = 683182.38
EAST = 1539649.60
ELEV. = 345.16
SCALE = 1" = 40'



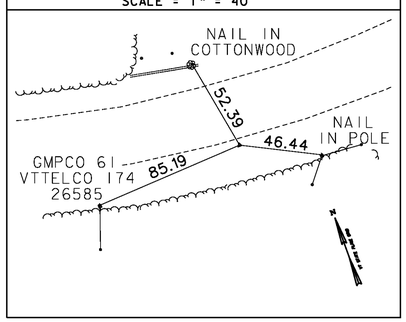
HVCIRL #8

NORTH = 682978.92
EAST = 1540212.77
ELEV. = 353.46
SCALE = 1" = 40'



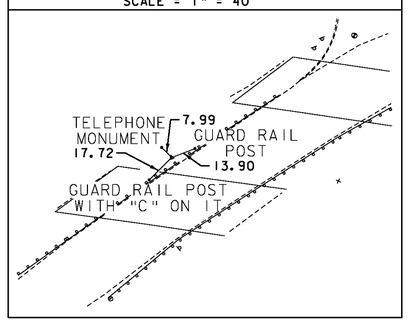
HVCIRL #9

NORTH = 682830.28
EAST = 1540710.68
ELEV. = 354.47
SCALE = 1" = 40'



HVCIRL #10

NORTH = 682977.20
EAST = 1541247.09
ELEV. = 348.32
SCALE = 1" = 40'



DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

TIE SHEET 1

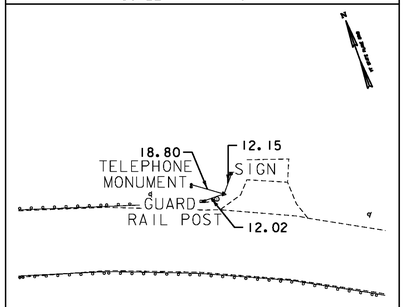
PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172-3.i

PLOT DATE: 4/16/2013
DRAWN BY: JBG
CHECKED BY: CDL
SHEET 3 OF 217

HVCTRL #11

NORTH = 682949.28
EAST = 1541753.86
ELEV. = 354.57
SCALE = 1" = 40'



HVCTRL #12

NORTH = 682585.86
EAST = 1542266.20
ELEV. = 360.15
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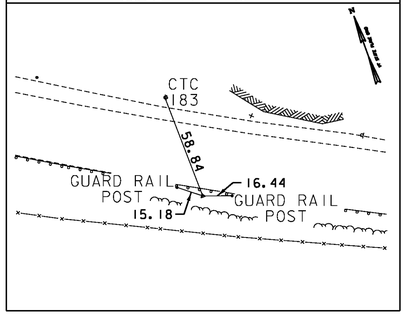

HVCTRL #13

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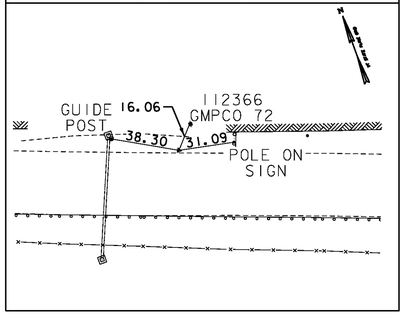
EAST = 1542823.41
ELEV. = 354.43
SCALE = 1" = 40'



HVCTRL #14

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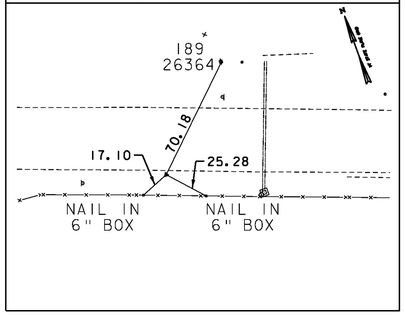
EAST = 1543463.62
ELEV. = 337.64
SCALE = 1" = 40'



HVCTRL #15

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EAST = 1543954.64
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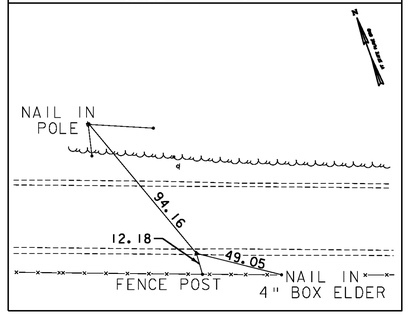
SCALE = 1" = 40'



HVCTRL #16

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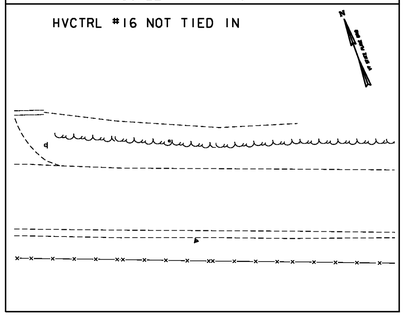
EAST = 1544482.39
ELEV. = 340.26
SCALE = 1" = 40'



HVCTRL #17

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EAST = 1544968.34
ELEV. = 342.71
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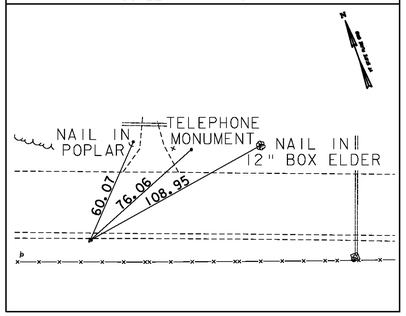

HVCTRL #18

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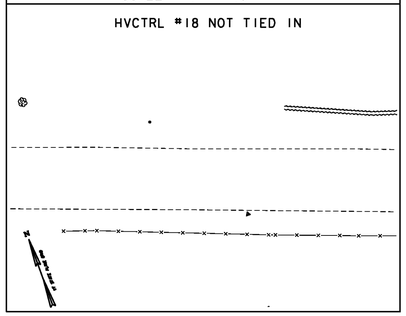
EAST = 1545451.97
ELEV. = 345.01
SCALE = 1" = 40'



HVCTRL #19

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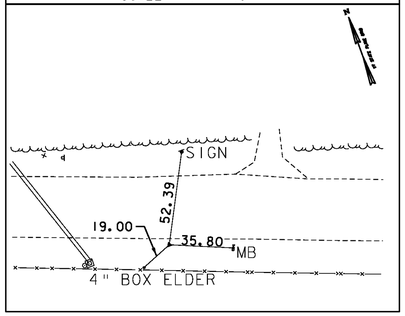
EAST = 1545945.05
ELEV. = 347.91
SCALE = 1" = 40'



HVCTRL #20

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EAST = 1546395.73
ELEV. = 355.28
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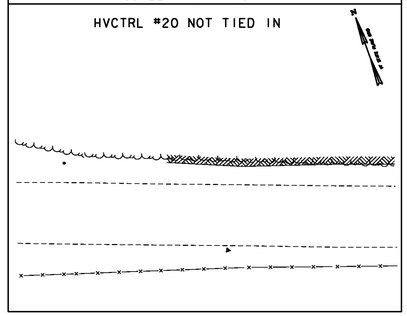

HVCTRL #21

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EAST = 1546873.42
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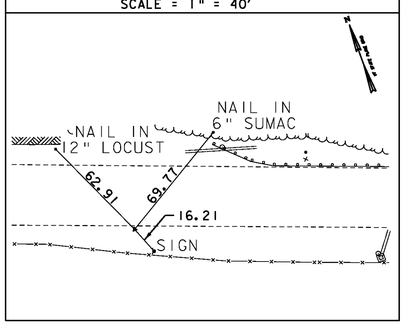

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EAST = 1547368.28
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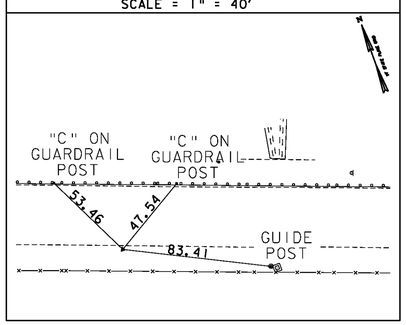

HVCTRL #23

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EAST = 1547857.64
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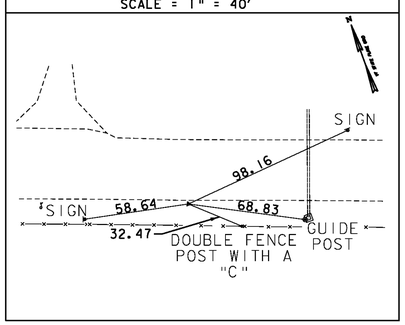
SCALE = 1" = 40'



HVCTRL #24

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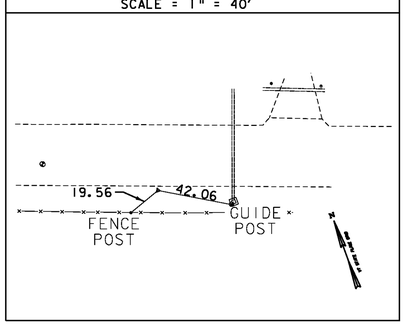
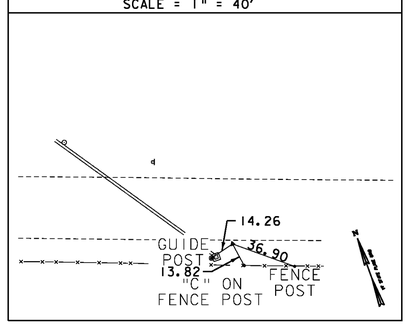
ELEV. = 341.83
SCALE = 1" = 40'



HVCTRL #25

NORTH = 680106.67
EAST = 1548862.18
ELEV. = 343.01
SCALE = 1" = 40'



DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

TIE SHEET 2

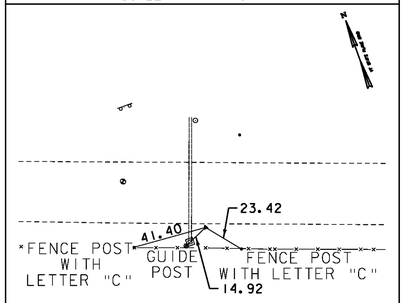
PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172-4.i

PLOT DATE: 4/16/2013
DRAWN BY: JBG
CHECKED BY: CDL
SHEET 4 OF 217

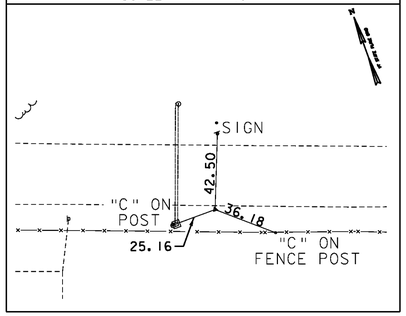
HVCIRL #26

NORTH = 679931.59
EAST = 1549333.95
ELEV. = 343.96
SCALE = 1" = 40'



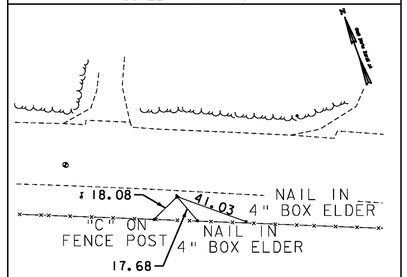
HVCIRL #27

NORTH = 679753.51
EAST = 1549815.15
ELEV. = 345.29
SCALE = 1" = 40'



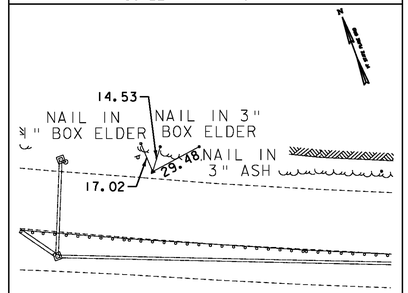
HVCIRL #28

NORTH = 679555.79
EAST = 1550322.78
ELEV. = 354.65
SCALE = 1" = 40'



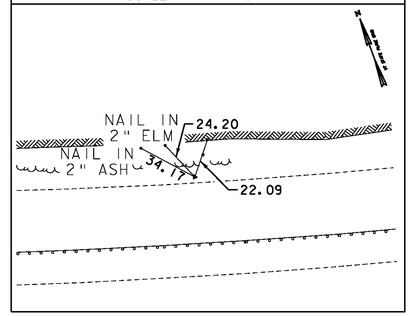
HVCIRL #29

NORTH = 679374.47
EAST = 1550825.54
ELEV. = 364.00
SCALE = 1" = 40'



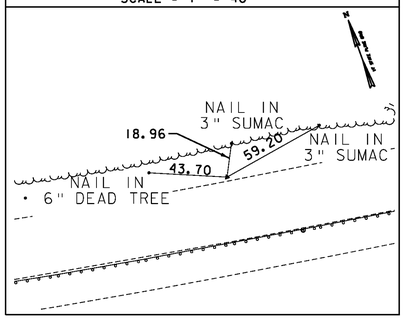
HVCIRL #30

NORTH = 679198.66
EAST = 1551297.66
ELEV. = 371.69
SCALE = 1" = 40'



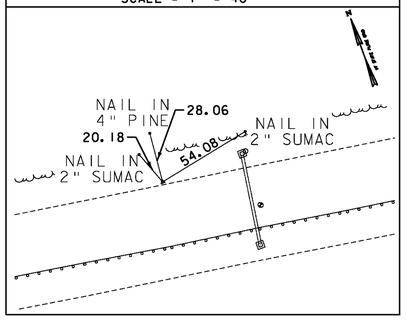
HVCIRL #31

NORTH = 679093.27
EAST = 1551762.41
ELEV. = 378.58
SCALE = 1" = 40'



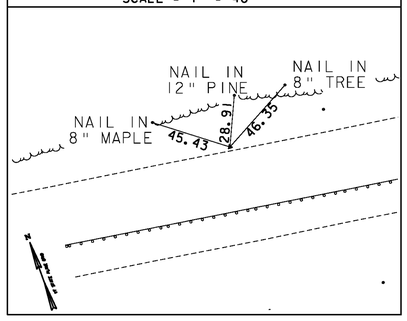
HVCIRL #32

NORTH = 679018.22
EAST = 1552255.25
ELEV. = 384.99
SCALE = 1" = 40'



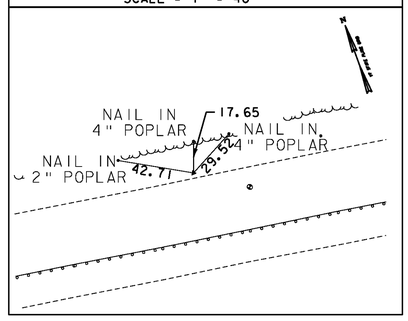
HVCIRL #33

NORTH = 678937.92
EAST = 1552789.74
ELEV. = 387.97
SCALE = 1" = 40'



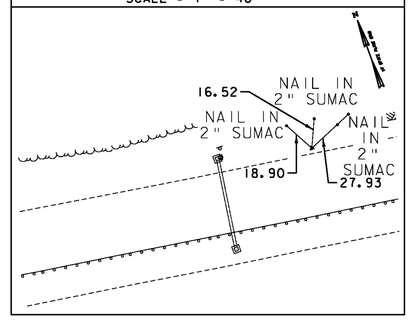
HVCIRL #34

NORTH = 678859.76
EAST = 1553316.61
ELEV. = 390.86
SCALE = 1" = 40'



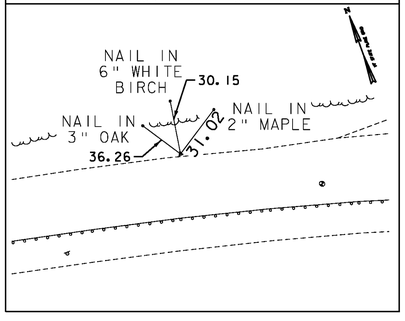
HVCIRL #35

NORTH = 678780.19
EAST = 1553846.92
ELEV. = 393.42
SCALE = 1" = 40'



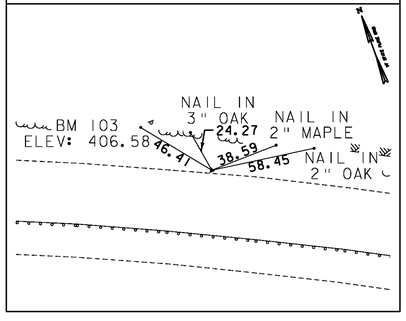
HVCIRL #36

NORTH = 678694.85
EAST = 1554335.15
ELEV. = 398.98
SCALE = 1" = 40'



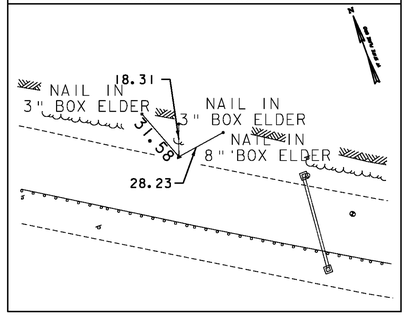
HVCIRL #37

NORTH = 678534.50
EAST = 1554794.93
ELEV. = 401.55
SCALE = 1" = 40'



HVCIRL #38

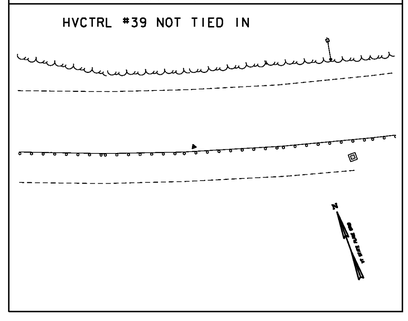
NORTH = 678251.16
EAST = 1555284.15
ELEV. = 400.63
SCALE = 1" = 40'



HVCIRL #39

NORTH = 677995.85
EAST = 1555727.91
ELEV. = 410.23
SCALE = 1" = 40'

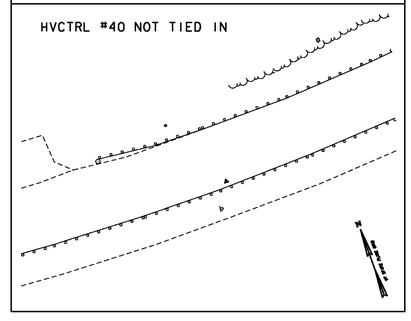
HVCTRL #39 NOT TIED IN



HVCIRL #40

NORTH = 677922.03
EAST = 1556225.06
ELEV. = 425.84
SCALE = 1" = 40'

HVCTRL #40 NOT TIED IN



DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

TIE SHEET 3

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172-5.i

PLOT DATE: 4/16/2013
DRAWN BY: JBG
CHECKED BY: CDL
SHEET 5 OF 217

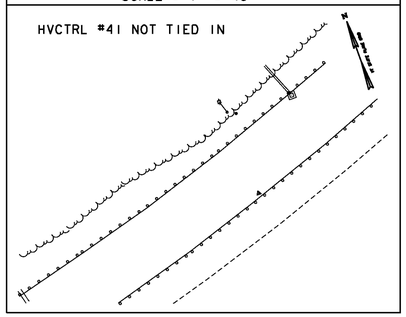
HVCTRL #42

HVCTRL #42
NORTH = 678227.10
EAST = 1557157.49
ELEV. = 456.93

GENERAL LOCATION, WATERBURY, VT.
POINT IS SET OFF THE RIGHT SIDE OF THE WESTBOUND LANE OF U.S. ROUTE 2.
IT IS APPROXIMATELY 150 FT WEST OF THE WESTBOUND MILE MARKER 0020 / 1218 / 0039.
IT IS 24.81 FT SOUTH OF A NAIL IN A TWIN 8" ASH TREE.
IT IS 46.92 FT SOUTH-SOUTHWEST OF A NAIL IN A 3" BOX ELDER TREE.
IT IS 27.93 FT EAST-SOUTHEAST OF A COMBO POLE.
POINT IS #5 REBAR, DRIVEN INTO THE GROUND.

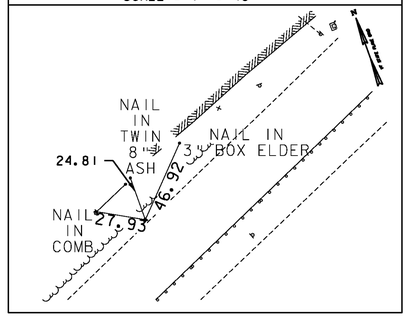
HVCTRL #41

NORTH = 678004.89
EAST = 1556714.68
ELEV. = 441.02
SCALE = 1" = 40'



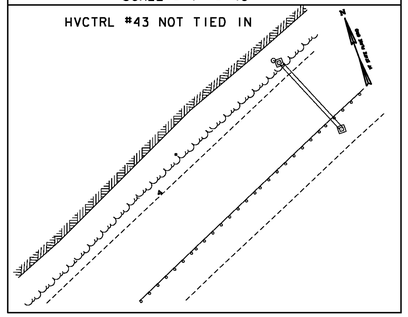
HVCTRL #42

NORTH = 678227.10
EAST = 1557157.49
ELEV. = 456.93
SCALE = 1" = 40'



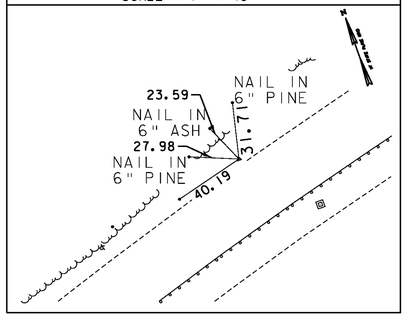
HVCTRL #43

NORTH = 678431.23
EAST = 1557618.96
ELEV. = 475.31
SCALE = 1" = 40'



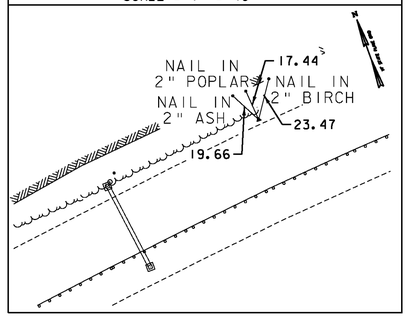
HVCTRL #44

NORTH = 678601.81
EAST = 1558075.25
ELEV. = 489.85
SCALE = 1" = 40'



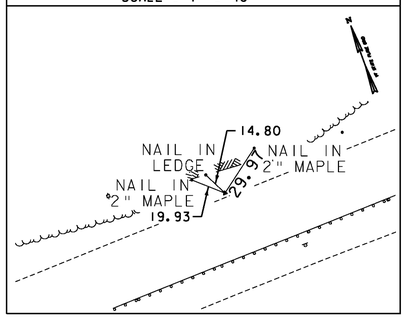
HVCTRL #45

NORTH = 678696.66
EAST = 1558592.04
ELEV. = 505.24
SCALE = 1" = 40'



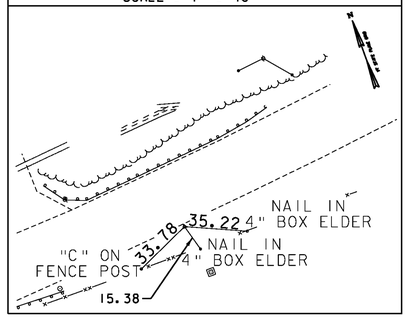
HVCTRL #46

NORTH = 678718.46
EAST = 1559101.56
ELEV. = 514.09
SCALE = 1" = 40'



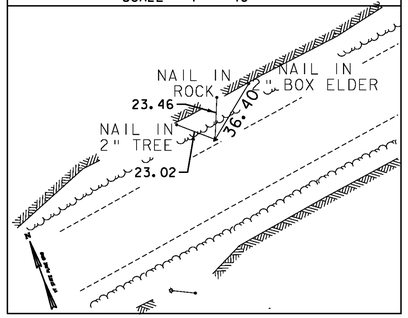
HVCTRL #47

NORTH = 678711.62
EAST = 1559699.49
ELEV. = 514.77
SCALE = 1" = 40'



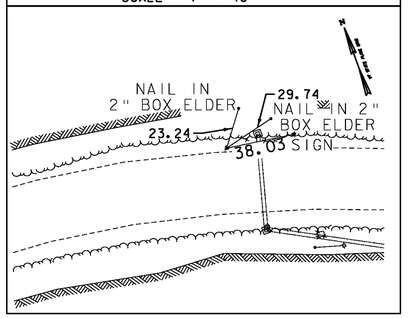
HVCTRL #48

NORTH = 678819.28
EAST = 1560193.73
ELEV. = 502.79
SCALE = 1" = 40'



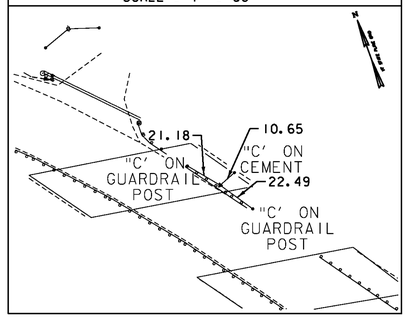
HVCTRL #49

NORTH = 678827.10
EAST = 1560691.14
ELEV. = 479.48
SCALE = 1" = 40'



HVCTRL #50

NORTH = 678546.60
EAST = 516110.92
ELEV. = 453.96
SCALE = 1" = 60'



DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

TIE SHEET 4

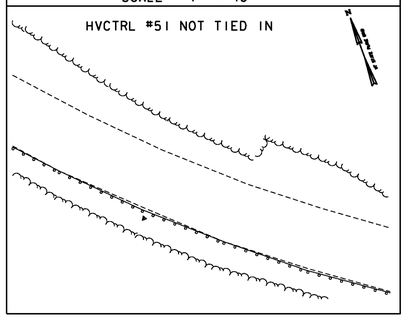
PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172-6.i

PLOT DATE: 4/16/2013
DRAWN BY: JBG
CHECKED BY: CDL
SHEET 6 OF 217

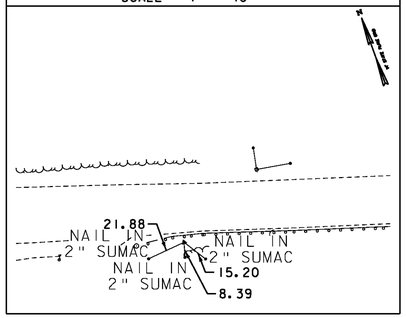
HVCIRL #51

NORTH = 678125.04
EAST = 1561385.63
ELEV. = 429.42
SCALE = 1" = 40'



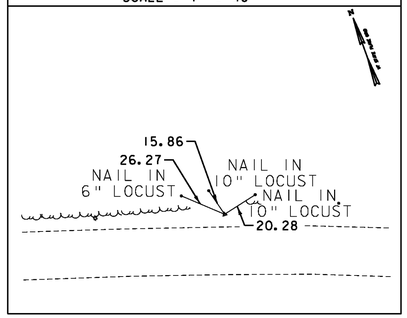
HVCIRL #52

NORTH = 677868.11
EAST = 1561904.41
ELEV. = 420.86
SCALE = 1" = 40'



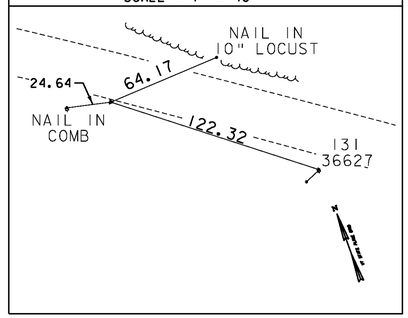
HVCIRL #53

NORTH = 677748.93
EAST = 1562407.34
ELEV. = 421.79
SCALE = 1" = 40'



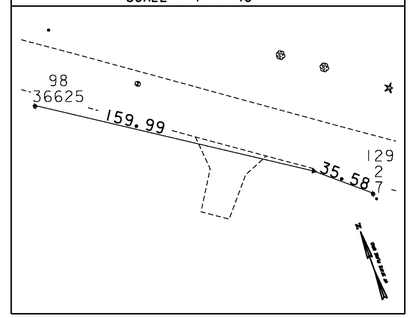
HVCIRL #54

NORTH = 677488.58
EAST = 1562826.37
ELEV. = 409.21
SCALE = 1" = 40'



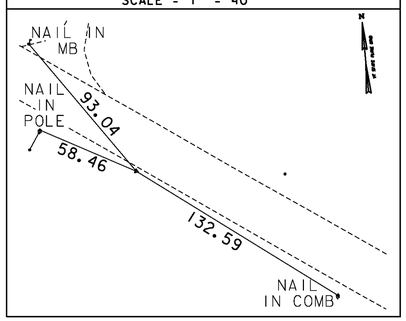
HVCIRL #55

NORTH = 677206.60
EAST = 1563230.42
ELEV. = 410.50
SCALE = 1" = 40'



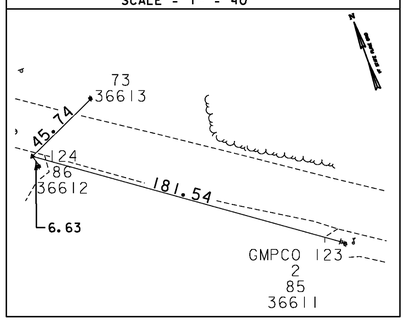
HVCIRL #56

NORTH = 676916.00
EAST = 1563643.80
ELEV. = 411.36
SCALE = 1" = 40'



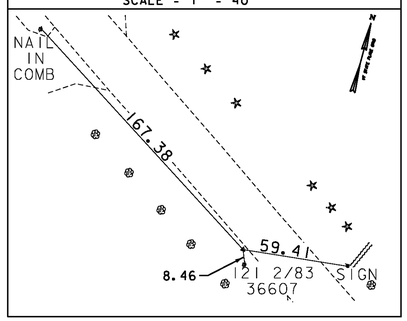
HVCIRL #57

NORTH = 676648.11
EAST = 1564034.17
ELEV. = 412.45
SCALE = 1" = 40'



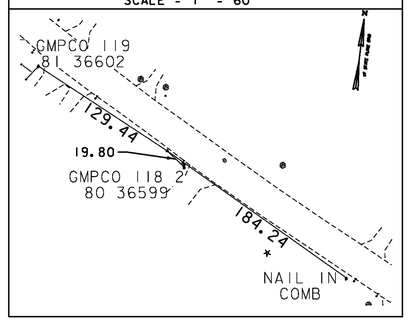
HVCIRL #58

NORTH = 676363.30
EAST = 1564456.97
ELEV. = 413.69
SCALE = 1" = 40'



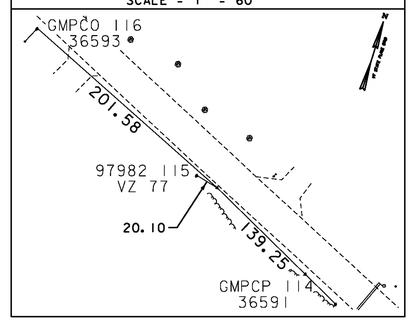
HVCIRL #59

NORTH = 676094.49
EAST = 1564875.38
ELEV. = 415.20
SCALE = 1" = 60'



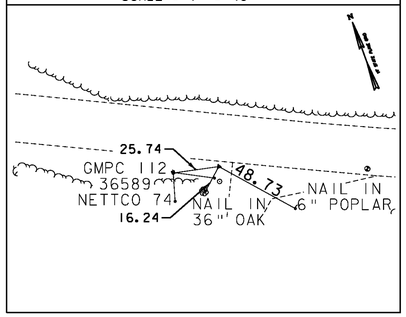
HVCIRL #60

NORTH = 675848.49
EAST = 1565363.38
ELEV. = 416.36
SCALE = 1" = 60'



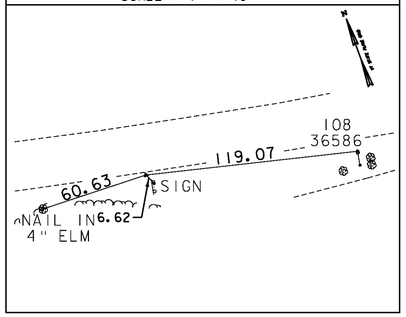
HVCIRL #61

NORTH = 675632.25
EAST = 1565815.88
ELEV. = 435.23
SCALE = 1" = 40'



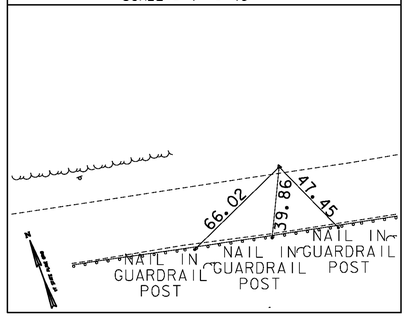
HVCIRL #62

NORTH = 675491.04
EAST = 1566246.72
ELEV. = 452.14
SCALE = 1" = 40'



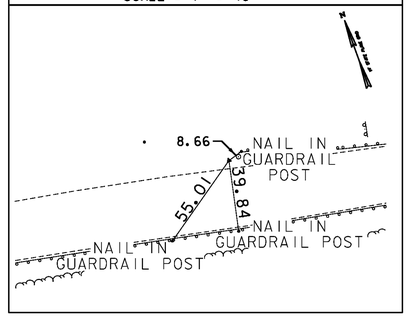
HVCIRL #63

NORTH = 675412.87
EAST = 1566826.06
ELEV. = 437.67
SCALE = 1" = 40'



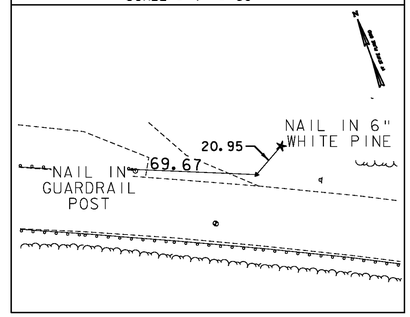
HVCIRL #64

NORTH = 675321.76
EAST = 1567295.14
ELEV. = 435.05
SCALE = 1" = 40'



HVCIRL #65

NORTH = 675115.75
EAST = 1567924.75
ELEV. = 428.94
SCALE = 1" = 60'



DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

TIE SHEET 5

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172-7.i

PLOT DATE: 4/16/2013
DRAWN BY: JBG
CHECKED BY: CDL
SHEET 7 OF 217

HVCIRL #66

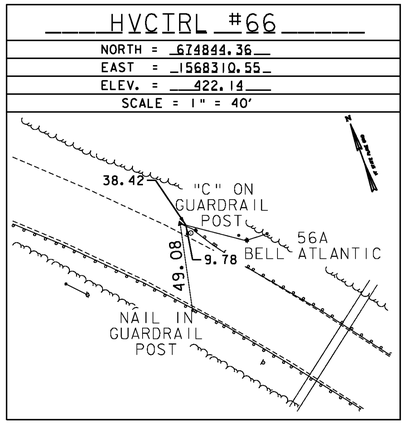
HVCIRL #66
NORTH = 674844.36
EAST = 1568310.55
ELEV. = 422.14

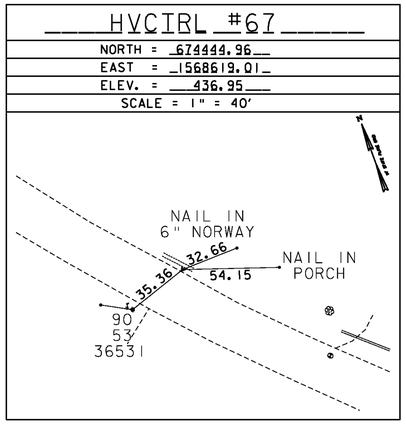
GENERAL LOCATION, WATERBURY, VT.
POINT IS SET OFF THE RIGHT SIDE OF THE WESTBOUND LANE OF U.S. ROUTE 2.
IT IS APPROXIMATELY 125 FT WEST OF THE WESTBOUND BRIDGE MARKER FOR BRIDGE 45.
IT IS 38.42 FT WEST-NORTHWEST OF COMBO POLE 56A / BELL ATLANTIC.
IT IS 9.78 FT WEST-NORTHWEST OF A "C" ON A GUARDRAIL POST.
IT IS 49.08 FT NORTH OF A NAIL IN A GUARDRAIL POST.
POINT IS #5 REBAR, DRIVEN INTO THE GROUND.

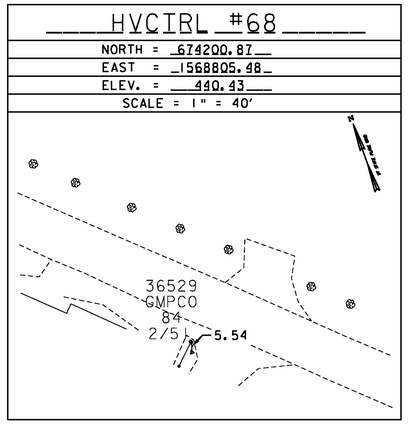
HVCIRL #67

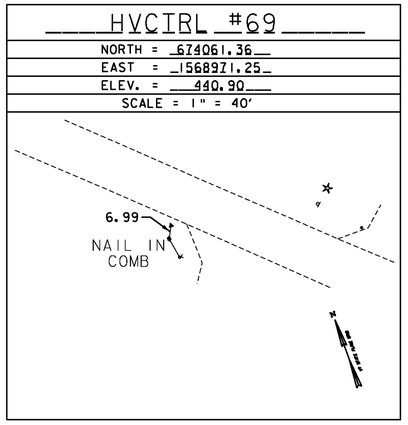
HVCIRL #67
NORTH = 674444.96
EAST = 1568619.01
ELEV. = 436.95

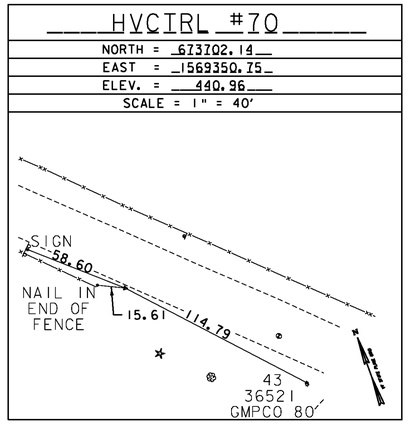
GENERAL LOCATION, WATERBURY, VT.
POINT IS SET OFF THE RIGHT SIDE OF THE WESTBOUND LANE OF U.S. ROUTE 2.
IT IS APPROXIMATELY 50 FT WEST OF THE WESTBOUND MILE MARKER 0020 / 1218 / 0280.
IT IS 32.66 FT WEST OF A NAIL IN A 6" NORWAY SPRUCE TREE.
IT IS 54.15 FT WEST-NORTHWEST OF A NAIL IN A PORCH.
IT IS 35.36 FT NORTHEAST OF COMBO POLE 90 / 53 / 36531.
POINT IS #5 REBAR, DRIVEN INTO THE GROUND.

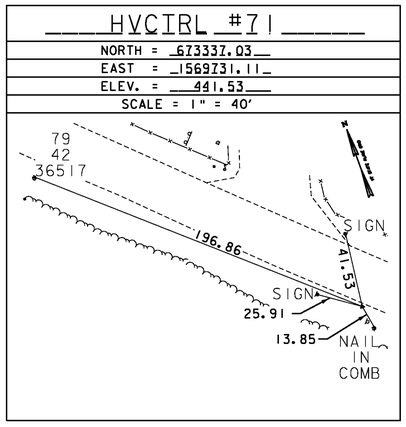


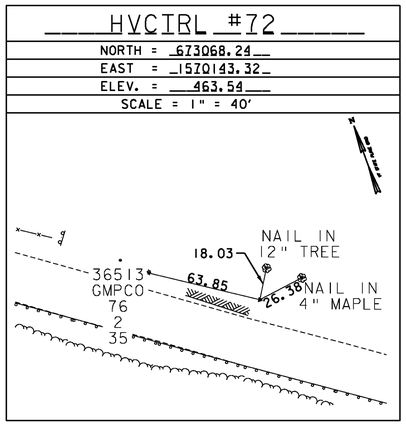


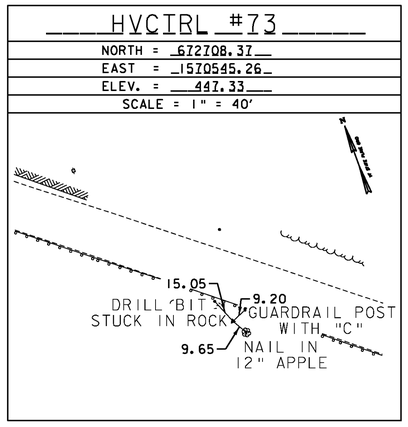


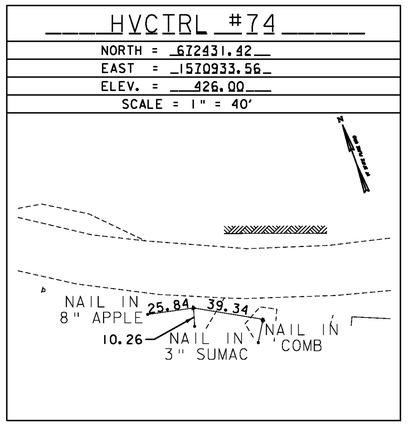


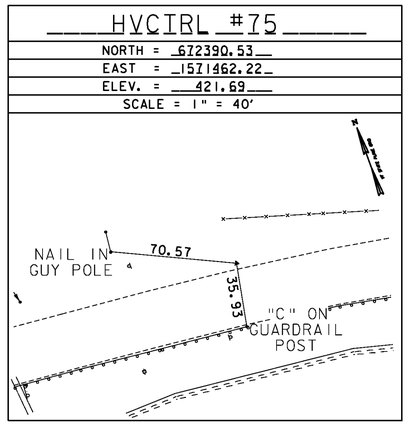










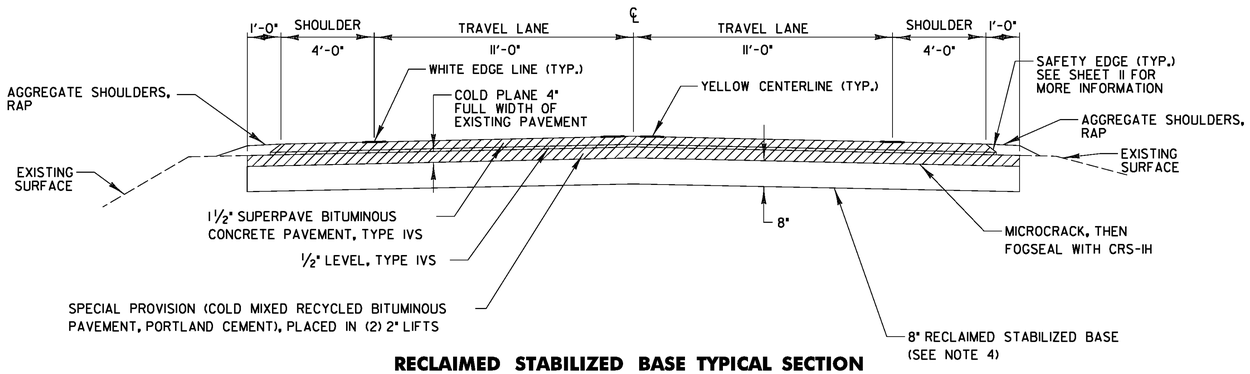


DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

TIE SHEET 6

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172-7A.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG
CHECKED BY: CDL
SHEET 7A OF 217



RECLAIMED STABILIZED BASE TYPICAL SECTION

SEE SHEET 11 FOR POSSIBLE ORDER OF OPERATIONS AND ADDITIONAL DETAILS

BOLTON

STA. 100+25 - STA. 105+85

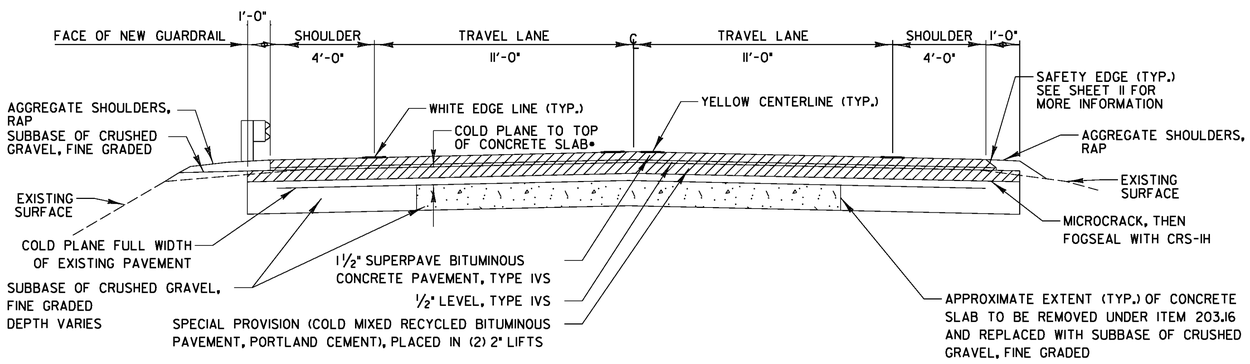
STA. 140+45 - STA. 299+71

WATERBURY

STA. A 0+00 - STA. A 70+60

STA. A 123+25 - STA. A 145+35

STA. A 180+45 - STA. A 185+25



RECLAIMED STABILIZED BASE TYPICAL SECTION (CONCRETE SLAB REMOVAL)

• BORINGS INDICATE BITUMINOUS CONCRETE VARIES 6-9 INCHES, WITH AN AVERAGE DEPTH OF 7.4 INCHES. COLD PLANING THROUGH THE CONCRETE REMOVAL SECTION SHALL BE PAID UNDER SPECIAL PROVISION (COLD PLANING BITUMINOUS PAVEMENT).

SEE SHEET 11 FOR POSSIBLE ORDER OF OPERATIONS AND ADDITIONAL DETAILS

BOLTON

STA. 105+85 - STA. 140+45

WATERBURY

STA. A 70+60 - STA. A 123+25

STA. A 145+35 - STA. A 180+45

NOTES:

1. WETLANDS HAVE BEEN LOCATED NEAR SECTIONS OF THE PROJECT AREA. IF WORK EXTENDS INTO THE WETLANDS, STATE AND FEDERAL PERMITS WILL BE REQUIRED (TO BE ACQUIRED BY CONTRACTOR). SEE LAYOUT SHEETS FOR INDIVIDUAL SENSITIVE LOCATIONS.

2. COLD PLANING SHALL BE COMPLETED ACCORDING TO THE TYPICAL OR AS OTHERWISE NOTED ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE BEGINNING AND END OF THE PROJECT AND SIDE ROAD APPROACHES AS DENOTED ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER. SAWCUTTING WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE PAID INCIDENTAL TO ITEM 210.10 "COLD PLANING, BITUMINOUS PAVEMENT".

3. PRIOR TO RECLAIMING, ANY EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER WILL BE EXCAVATED TO THE DEPTH OF RECLAIMING OR AS DIRECTED BY THE RESIDENT ENGINEER. EXCAVATED MATERIAL WILL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR USING THE APPROPRIATE RENTAL ITEMS. THE METHOD OF REMOVAL AND THE USE OF RENTAL ITEMS SHALL BE APPROVED BY THE ENGINEER PRIOR TO ANY WORK BEING DONE. MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.28 "SUBBASE OF CRUSHED GRAVEL, FINE GRADED". AN ADDITIONAL QUANTITY OF 301.28 "SUBBASE OF CRUSHED GRAVEL, FINE GRADED" HAS BEEN INCLUDED TO CORRECT SUPERELEVATION AND GRADATION DEFICIENCIES WITHIN THE RECLAIMED SECTION AND TO BACKFILL THROUGH THE CONCRETE REMOVAL SECTION. AN ADDITIONAL QUANTITY OF 15% OF THE CONCRETE REMOVAL VOLUME HAS BEEN ESTIMATED TO ACCOMMODATE ANY UNSUITABLE MATERIAL ENCOUNTERED UNDER THE CONCRETE SLABS.

4. THE FIRST RECLAIM PASS SHALL BE PERFORMED FROM TOP OF BANK TO TOP OF BANK WHERE FULL WIDTH IS NOT ACHIEVABLE. THE FIRST RECLAIM PASS SHALL BE PAID UNDER ITEM 310.20 "RECLAIMED STABILIZED BASE". THE SECOND RECLAIM PASS SHALL BE PERFORMED FULL WIDTH PER THE TYPICAL SECTION. THE SECOND RECLAIM PASS SHALL BE PAID UNDER ITEM 900.675 "SPECIAL PROVISION (RECLAIMED STABILIZED BASE, PORTLAND CEMENT)".

5. THE PORTLAND CEMENT STABILIZED COLD MIX SHALL BE PRODUCED FROM THE COLD PLANE GRINDINGS GENERATED FROM THE PROJECT AND PAID FOR UNDER ITEM 900.675 "SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT)". IF THERE IS NOT A SUFFICIENT AMOUNT OF COLD PLANE GRINDINGS AVAILABLE TO PRODUCE THE (2) 2" LIFTS OF PORTLAND CEMENT STABILIZED COLD MIX, THE CONTRACTOR SHALL OBTAIN THE NECESSARY MATERIAL FROM ANOTHER SOURCE. THE COST ASSOCIATED WITH PROVIDING ADDITIONAL COLD PLANE GRINDINGS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 900.675 "SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT)".

6. FOR THE PURPOSES OF QUANTITY CALCULATION IT HAS BEEN ASSUMED ITEM 900.675 "SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT,PORTLAND CEMENT)" WILL REQUIRE 3% BY WEIGHT OF ITEM 415.25 "EMULSIFIED ASPHALT,COLD MIX". FOR THE SAME PURPOSE IT HAS ALSO BEEN ASSUMED 1% BY WEIGHT OF PORTLAND CEMENT WILL BE REQUIRED BY MIX DESIGN.

7. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- ¼ INCH (TOTAL PAVEMENT THICKNESS). SUBBASE OF CRUSHED GRAVEL, FINE GRADED TOLERANCE = +/- 1 INCH (TOTAL SUBBASE THICKNESS).

8. EMULSIFIED ASPHALT TYPE CRS-1H OR RS-1H SHALL BE APPLIED AS A TACK COAT ON ALL EXISTING PAVEMENT SURFACES, AND BETWEEN ALL COURSES OF PAVEMENT (WHERE APPLICABLE), NOT INCLUDING RECLAIMED SURFACES, AT THE RATE OF 0.025 TO 0.040 GAL/SY OR AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE UNDER ITEM 900.683, "SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-1H OR CRS-1H)". IF ITEM 415.25 "EMULSIFIED ASPHALT,COLD MIX" IS SPECIFIED IN THE MIX DESIGN AS A CATIONIC EMULSION AND USED IN THE PRODUCTION OF ITEM 900.675 "SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT)" THEN CRS-1H SHALL BE USED FOR TACK BETWEEN SUCCESSIVE LAYERS OF COLD MIX BASE COURSE AND PRIOR TO PLACEMENT OF THE TYPE IVS LEVELING COURSE. AN APPLICATION RATE OF 0.040 TO 0.060 GAL/SY SHALL BE USED AS DIRECTED BY THE ENGINEER.

9. THE WEARING AND LEVELING COURSES SHALL BE TYPE IVS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, AND THE BASE COURSE SHALL BE SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT). ALL ASPHALT CEMENT USED IN THE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL BE AS SPECIFIED IN SUBSECTION 490.03B.

10. ALL EDGES OF PAVEMENT SHALL BE BACKED UP TO FULL HEIGHT WITH AGGREGATE SHOULDER MATERIAL AS DIRECTED BY THE ENGINEER AND WILL BE PAID UNDER ITEM 402.13 "AGGREGATE SHOULDERS, RAP".

11. ALL PAVED AND GRAVEL DRIVES SHALL RECEIVE A PAVED APRON OF 4' AND ALL FIELD AND WOODS DRIVES SHALL RECEIVE A 2' PAVED APRON UNLESS OTHERWISE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER. ANY AND ALL REQUIRED EXCAVATION AND ASSOCIATED DRIVE GRADING IN DRIVE AREAS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE NEW BITUMINOUS SURFACE AND ASSOCIATED DRIVE GRADING SHALL BE CONSTRUCTED AS DIRECTED AND WILL BE PAID FOR UNDER ITEM 900.675 "SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)".

12. ESTIMATED QUANTITIES FOR ITEM 613.10 "STONE FILL, TYPE I"; ITEM 651.40 "GRUBBING MATERIAL"; ITEM 649.31 "GEOTEXTILE UNDER STONE FILL"; ITEM 653.20 "TEMPORARY EROSION MATTING" AND ITEM 608.25 "ALL PURPOSE EXCAVATOR RENTAL, TYPE I" HAVE BEEN INCLUDED FOR AREAS WITH PROPOSED SIDE SLOPES STEEPER THAN 1:1.5 AND TO PROVIDE FOR REPAIR OF EXISTING STONE LINED DRAINAGE OUTLETS OR WASHOUTS LOCATED ALONG THE ROADWAY SIDE SLOPES AS DIRECTED BY THE ENGINEER.

13. AN ESTIMATED QUANTITY FOR ITEM 653.20 "TEMPORARY EROSION MATTING" HAS BEEN INCLUDED FOR AREAS WITH PROPOSED SLOPES BETWEEN 1:2 AND 1:1.5 AS DIRECTED BY THE ENGINEER.

14. PIPE INLET AND OUTLET AREAS OF DITCH CLEANING THROUGHOUT THE PROJECT SHALL BE PERFORMED AT LOCATIONS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE MADE UNDER THE APPROPRIATE RENTAL ITEMS(S).

15. DAMAGE TO ANY DI'S, CROSS CULVERTS OR OTHER DRAINAGE FEATURES SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.

16. STEEL BEAM GUARDRAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT.

17. AN ESTIMATED QUANTITY FOR ITEM 619.17 "YIELDING MARKER POSTS" HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE THE PAVEMENT SURFACES OR AS DIRECTED BY THE RESIDENT ENGINEER. ESTIMATED QUANTITIES OF ITEMS 608.25, "ALL PURPOSE EXCAVATOR RENTAL, TYPE I", 608.37, "TRUCK RENTAL", AND 608.40, "LOADER RENTAL, TYPE I" HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL END SECTIONS WITH EXCAVATED DITCHING MATERIAL AND THE REMOVAL OF BUILT UP EXCESS SHOULDER MATERIAL IN NON-GUARDRAIL LOCATIONS. AN ESTIMATED QUANTITY OF ITEM 203.30, "EARTH BORROW" HAS BEEN INCLUDED FOR USE WITH THE GUARDRAIL END SECTIONS. 25 CY OF ITEM 203.30, "EARTH BORROW" HAS BEEN ESTIMATED FOR EACH NEW END SECTION. GUARDRAIL END SECTIONS SHALL BE CAPPED WITH AN ESTIMATED 3 INCH DEPTH OF ITEM 651.35, "TOPSOIL" UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE QUANTITIES INCLUDED REFLECT 5 CY OF ITEM 651.35, "TOPSOIL" FOR EACH NEW GUARDRAIL END SECTION. ITEM 653.20, "TEMPORARY EROSION MATTING" SHALL BE PLACED ON SLOPES GREATER THAN 1:6 CREATED BY THE GUARDRAIL END SECTIONS. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20, "TEMPORARY EROSION MATTING" FOR EACH NEW GUARDRAIL END SECTION. PRIOR TO THE PLACEMENT OF TEMPORARY EROSION MATTING, THE AREA SHALL BE TOPSOILED AND SEEDED USING ITEM 651.35, "TOPSOIL" AND ITEM 651.15 "SEED".

NOTES CONTINUED ON NEXT SHEET

DETAILS ARE NOT TO SCALE

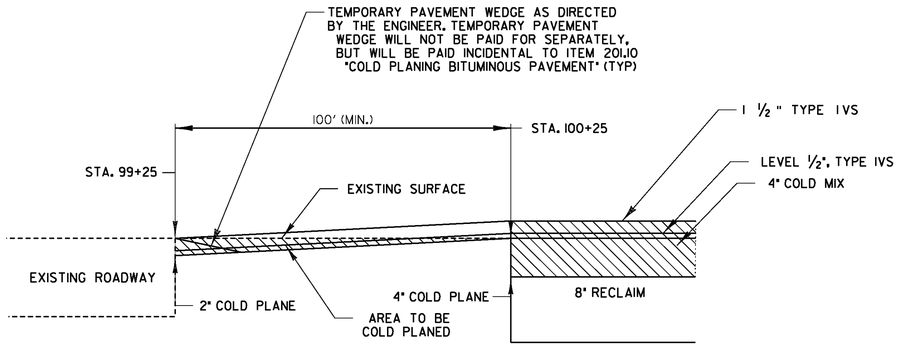
PROJECT TYPICAL SHEET 1

PROJECT NAME: BOLTON-WATERBURY

PROJECT NUMBER: STP 2709(1)

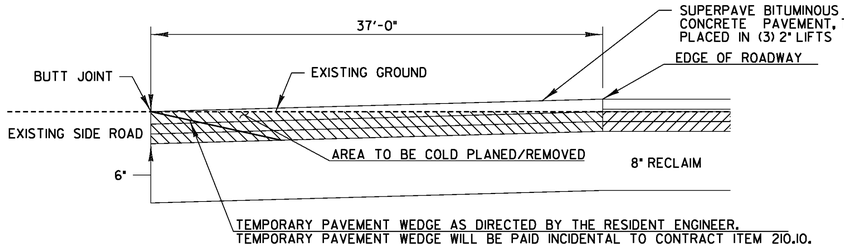
FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_8.1

PLOT DATE: 04/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 8 OF 217



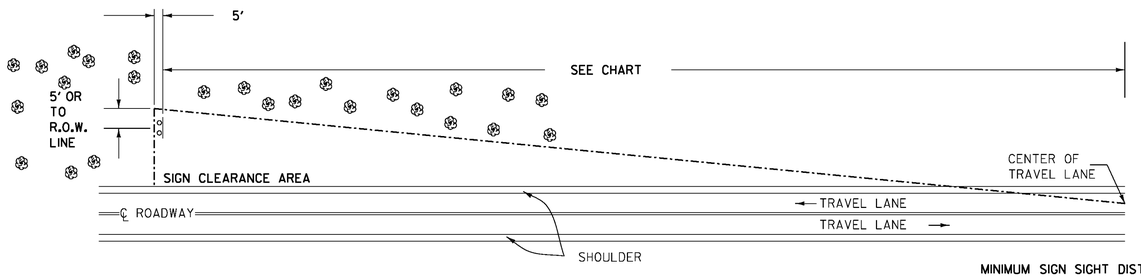
APPROACH AREA DETAIL (BEGIN PROJECT)

BOLTON
STA. 99+25



TRANSITION AREA FOR BOLTON TH#3 STA. 150+80 (MM 2.856)

FULL WIDTH OF TOWN HIGHWAY
SEE LAYOUT SHEETS FOR LOCATIONS OF ALL SIDE ROADS



THE CONTRACTOR SHALL REMOVE ALL WOODY STEMMED GROWTH INCLUDING BRUSH, SAPLINGS AND TREE LIMBS GROWING WITHIN OR PROJECTING INTO THE CLEARANCE AREA AND DOWN TO GROUND LEVEL OR AT LEAST 10 FT BELOW THE BOTTOM OF THE SIGN. PAYMENT WILL BE FOR THINNING AND TRIMMING FOR SIGNS, ITEM 201.31, AND PAID FOR PER EACH. NO CHEMICALS (POISONS OR DEFOLIANTS) ALLOWED.

THINNING AND TRIMMING FOR SIGNS DETAIL

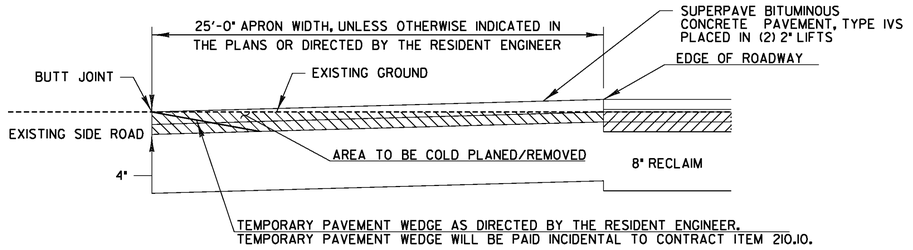
BOLTON	WATERBURY
STA. 116+84 RT	STA. A 0+00 LT
STA. 249+37 LT	STA. A 95+04 LT
	STA. A 116+16 LT
	STA. A 168+96 RT
	STA. A 170+91 RT

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

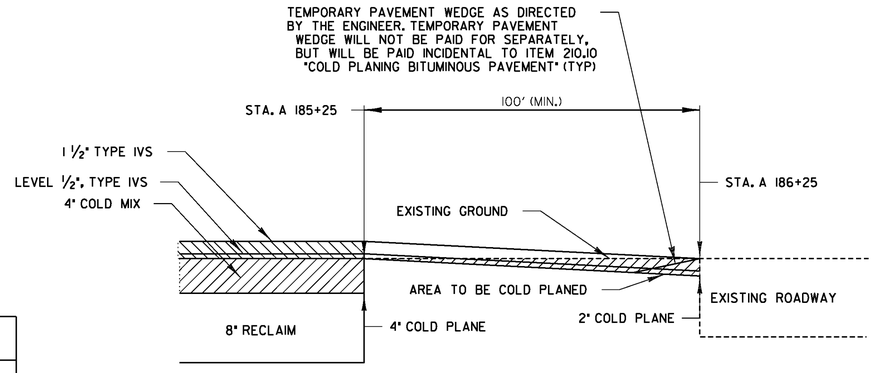
NOTES (CONTINUED):

18. WHEN FINISHED GRADE HAS BEEN MET, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS BEING RETAINED ARE IN CONFORMANCE WITH VTRANS STANDARD E-121 AS DIRECTED BY THE RESIDENT ENGINEER.
19. A QUANTITY FOR ITEM 604.412, "REHAB DI, CB OR MH CLASS I" HAS BEEN INCLUDED IN THE QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER. ALL DI'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS LEVEL WITH THE SURROUNDING TERRAIN.
20. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE PROJECT AREA TO OBTAIN A UNIT COST FOR PAY ITEM 201.10 "CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS".
21. A QUANTITY HAS BEEN ESTIMATED FOR ITEM 201.31 "THINNING AND TRIMMING FOR SIGNS". REFER TO DETAIL ON THIS SHEET.
22. ADDITIONAL QUANTITIES FOR PAY ITEMS 651.15 "SEED", 651.18 "FERTILIZER", 651.20 "AGRICULTURAL LIMESTONE", ITEM 653.20, "TEMPORARY EROSION MATTING" AND 651.25 "HAY MULCH" HAVE BEEN INCLUDED FOR STONE FILL SLOPE STABILIZATION AREAS TO BE PLACED ON GRUBBING MATERIAL.
23. A QUANTITY OF ITEM 204.21 "TRENCH EXCAVATION OF ROCK" HAS BEEN INCLUDED IN CASE LEDGE IS ENCOUNTERED DURING THE INSTALLATION OF UNDERDRAIN.
24. ITEMS 653.50 "BARRIER FENCE" AND 653.60 "EROSION LOG" SHALL BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER.
25. QUANTITY HAS BEEN ESTIMATED FOR ITEM 617.10 "RELOCATE MAILBOX, SINGLE SUPPORT", TO BE USED AS DETERMINED BY THE RESIDENT ENGINEER.
26. THE MEDIAN GUARDRAIL SHALL BE REMOVED AND RESET FROM THE WEST END OF US ROUTE 2, WITH ONLY THE AMOUNT OF GUARDRAIL THAT CAN BE RESET IN THE SAME DAY, AND ATTACHED TO THE EXISTING GUARDRAIL.



TRANSITION AREA FOR SIDE ROADS

FULL WIDTH OF TOWN HIGHWAY
SEE LAYOUT SHEETS FOR LOCATIONS OF ALL SIDE ROADS



APPROACH AREA DETAIL (END PROJECT)

WATERBURY
STA. A 185+25

DETAILS ARE NOT TO SCALE

PROJECT TYPICAL SHEET 2

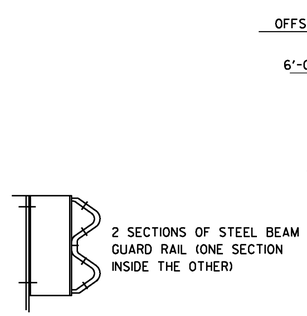
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_9.I
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 9 OF 217

EXISTING CULVERT INVENTORY MATRIX				
STATION	SIZE (IN)	TYPE	COVER (FT) LEFT	COVER (FT) RIGHT
BOLTON				
116+28	30	CMP	3.20	3.00
146+03	8	RCP	4.80	7.30
147+52	15	CMP	5.20	5.80
162+28	15	CMP	2.80	6.80
166+09	15	CMP	5.20	10.20
174+01	15	CMP	5.60	5.10
176+00	15	CMP	5.40	5.00
181+00	18	RCP	5.40	4.40
186+01	18	CMP	4.80	3.90
191+00	15	CMP	4.70	4.70
196+00	18	RCP	4.30	4.30
199+25	24	CMP	5.40	5.10
211+30	18	CMP	11.90	10.10
215+97	6'X8'	CONC.	5.60	6.00
217+99	15	CMP	4.80	4.50
221+00	15	CMP	4.10	3.80
225+99	15	CMP	4.50	4.00
230+58	18	CMP	4.10	3.60
235+99	18	RCP	4.60	4.00
240+99	18	CMP	4.50	4.20
243+99	18	CMP	4.70	4.10
248+16	11'X12'	CONC.	4.00	5.30
250+97	24	CMP	4.90	5.40

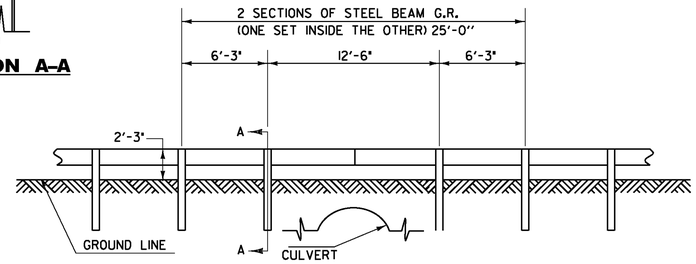
EXISTING CULVERT INVENTORY MATRIX				
STATION	SIZE (IN)	TYPE	COVER (FT) LEFT	COVER (FT) RIGHT
251+49	18	RCP	4.00	5.40
255+89	18	RCP	3.40	5.00
259+85	18	RCP	3.30	4.50
267+31	18	RCP	4.00	4.80
270+82	18	RCP	3.80	4.20
274+32	36	CMP	2.60	3.10
278+82	18	RCP	3.50	4.10
282+41	18	CMP	4.20	4.20
285+57	24	CMP	3.40	3.10
286+84	18	RCP	5.00	3.70
290+43	18	CMP	4.90	5.00
295+08	18	PVC	4.60	4.00
299+17	18	RCP	5.30	6.10
WATERBURY				
A 2+42	36	CMP	4.20	6.40
A 12+31	24	CMP	10.90	6.10
A 16+65	24	CMP	6.30	4.90
A 20+16	24	RCP	3.70	4.10
A 24+68	24	CMP	3.80	3.80
A 32+85	24	RCP	3.50	3.50
A 36+92	36	CMP	3.60	4.40
A 45+25	48	RCP	9.70	10.40
A 54+98	24	CONC.	4.40	4.70

EXISTING CULVERT INVENTORY MATRIX				
STATION	SIZE (IN)	TYPE	COVER (FT) LEFT	COVER (FT) RIGHT
A 67+13	24	CMP	6.10	11.10
A 73+00	15	RCP	5.60	5.20
A 79+45	4'X4'	CONC.	4.70	4.10
A 112+40	18	RCP	2.80	3.40
A 143+32	60	CMP	8.40	7.10
A 164+52	24	CMP	2.00	6.00
A 176+68	24	RCP	2.60	5.20
A 179+47	36	RCP	0.40	2.20
A 181+89	36	CMP	10.20	10.50
A 185+25	60	CMP	9.90	8.30



SECTION A-A

DETAIL A

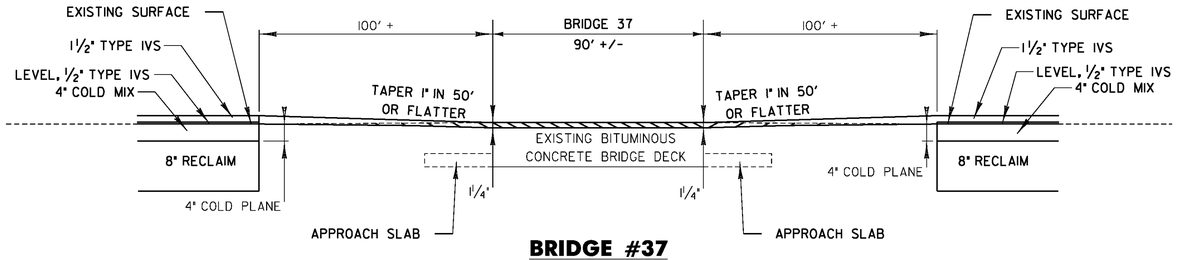


DETAIL OF STEEL BEAM GUARDRAIL AT SMALL CULVERTS

NOTES:

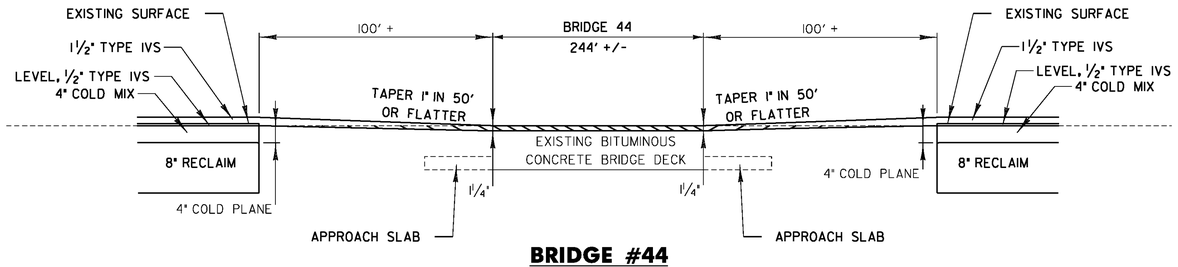
1. SEE STANDARDS G-1 & G-1D FOR STEEL BEAM GUARDRAIL DETAILS.
2. THIS WORK SHALL BE PAID UNDER ITEM 621.207 "STEEL BEAM GUARD RAIL, GALVANIZED/NESTED W/8 FEET POSTS".
3. THIS DETAIL TO BE USED AT LOCATIONS INDICATED ON THE ITEM DETAIL SHEET OR AS DIRECTED BY THE ENGINEER.

BOLTON
STA. 215+97 LT
WATERBURY
STA. A 79+42 RT
STA. 79+45 LT



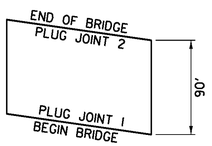
BRIDGE #37

BOLTON
STA 152+20

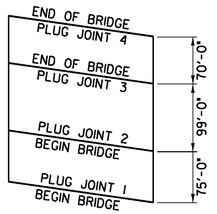


BRIDGE #44

WATERBURY
STA. A 133+84



BOLTON BRIDGE #37
STA. 152+20 (MM 2.882)



WATERBURY BRIDGE #44
STA. A 133+84 (MM 2.535)

NOTES:
1. BRIDGE #44 HAS DROP INLET AND/OR DOWNSPOUT OPENINGS LOCATED AT THE CURB LINE. THESE DRAINAGE OPENINGS WILL NOT REQUIRE REHABILITATION OR HEIGHT ADJUSTMENT. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID THE ACCUMULATION OF DEBRIS IN THE DRAINAGE STRUCTURES LOCATED AT CURB LINE AND IN THE EXPANSION JOINTS. THE CONTRACTOR SHALL EXAMINE THESE BRIDGE FEATURES ON A REGULAR BASIS TO ENSURE THAT DEBRIS HAS NOT ACCUMULATED. ANY DEBRIS WHICH IS PRESENT SHALL BE REMOVED BY THE CONTRACTOR AT NO COST TO THE STATE. THE CONTRACTOR SHALL PERFORM COLD PLANING WITH CAUTION AT THESE LOCATIONS. ANY DAMAGE WHICH OCCURS TO BRIDGE DECK MEMBRANES AS A RESULT OF COLD PLANE OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE MEMBRANE WILL BE REPAIRED OR REPLACED AT NO COST TO THE STATE.

JOINT	STATION	LENGTH
1	151+75	35' - 0"
2	152+65	35' - 0"
	BRIDGE #37	70' - 0"

TOTAL LENGTH OF JOINT

JOINT	STATION	LENGTH
1	A 132+62	35' - 0"
2	A 133+37	35' - 0"
3	A 134+35	35' - 0"
4	A 135+05	35' - 0"
	BRIDGE #44	140' - 0"

TOTAL LENGTH OF JOINT

DETAILS ARE NOT TO SCALE

SEEDING FORMULA

RATE: DOUBLE IF HYDROSEEDING

% WT.	LBS./A.	NAME	PUR %	GERM %
38	32	CREEPING RED FESCUE	98	90
29	24	SPARTAN HARD FESCUE	95	85
15	12	AZAY SHEEP'S FESCUE	95	87
15	12	ANNUAL RYE GRASS	95	90
3	--	INERTS	--	--
100.0	80 LB/A			

GENERAL NOTES

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

SEED ITEM 651.15: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE RESIDENT ENGINEER.

FERTILIZER ITEM 651.18: 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 ITEM 651.20: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.

TOPSOIL ITEM 651.35: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.

BRIDGE #	516.10 BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	580.20 RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE
	LF	CF
JOINER BRIDGE	70	10
BRIDGE #44	140	10
SUBTOTAL	210	20
ROUNDING	0	0
TOTAL	210	20

REFER TO BRIDGE JOINT ASPHALTIC PLUG, STRUCTURES DETAIL SD-516.10

PROJECT TYPICAL SHEET 3

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_10.1

PLOT DATE: 4/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 10 OF 217

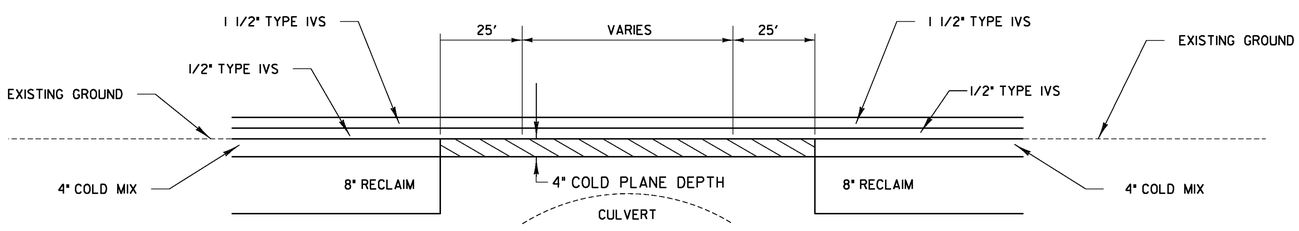
POSSIBLE ORDER OF OPERATIONS FOR RECLAIMED STABILIZED BASE WITH PORTLAND CEMENT PAVEMENT REHABILITATION

STEP	DESCRIPTION	PAYMENT ITEM(S)
1	COLD PLANE EXISTING ROADBED 4 INCHES AND STOCKPILE COLD PLANE GRINDINGS FOR FUTURE USE.	ITEM 210.10 "COLD PLANING, BITUMINOUS PAVEMENT"
2	REPAIR EXISTING SHOULDERS AS DIRECTED BY THE RESIDENT ENGINEER	ITEM 301.28 "SUBBASE OF CRUSHED GRAVEL, FINE GRADED"
3	RECLAIM EXISTING ROADBED 8" FROM TOP OF SLOPE TO TOP OF SLOPE USING WATER FOR STABILIZATION AND COMPACTION	ITEM 310.20 "RECLAIMED STABILIZED BASE"
4	CORRECT SUPERELEVATION DEFICIENCIES	ITEM 301.28 "SUBBASE OF CRUSHED GRAVEL, FINE GRADED" SEE NOTE 3 ON SHEET 8
5	PLACE PORTLAND CEMENT ON ROADBED SURFACE AND RECLAIM ROADBED 8", CURE, MICROCRACK, AND APPLY FOG SEAL SURFACE TREATMENT	ITEM 900.675 "SPECIAL PROVISION (RECLAIMED STABILIZED BASE, PORTLAND CEMENT)", ITEM 900.680 "SPECIAL PROVISION (PORTLAND CEMENT FOR BASE STABILIZATION)" AND ITEM 900.683 "SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT)"
6	PREPARE COLD PLANE GRINDINGS AND PLACE 4" COLD MIX RECYCLED ASPHALT SURFACE WITH PORTLAND CEMENT AND USE EMULSIFIED ASPALT AS A LIQUID BINDER.	ITEM 415.25 "EMULSIFIED ASPHALT, COLD MIX" ITEM 900.675 "SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT)" ITEM 900.680 "SPECIAL PROVISION (PORTLAND CEMENT FOR COLD MIXED RECYCLING)"
7	PLACE 1/2" TYPE IVS LEVELING COURSE	ITEM 490.30 "SUPERPAVE BITUMINOUS CONCRETE PAVEMENT"
8	PLACE 1 1/2" TYPE IVS WEARING COURSE	ITEM 490.30 "SUPERPAVE BITUMINOUS CONCRETE PAVEMENT"

POSSIBLE ORDER OF OPERATIONS FOR RECLAIMED STABILIZED BASE WITH PORTLAND CEMENT PAVEMENT REHABILITATION (CONCRETE SLAB REMOVAL)

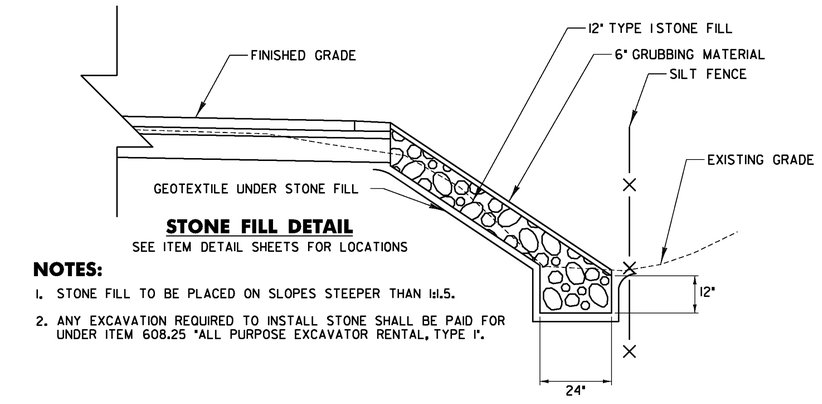
STEP	DESCRIPTION	PAYMENT ITEM(S)
1	COLD PLANE EXISTING BITUMINOUS CONCRETE PAVEMENT AND STOCKPILE COLD PLANE GRINDINGS FOR FUTURE USE.	SPECIAL PROVISION (COLD PLANING BITUMINOUS PAVEMENT)
2	REMOVE EXISTING CONCRETE SLAB, EXCAVATE ADJACENT AREA AND REPLACE WITH SUBBASE OF CRUSHED GRAVEL, FINE GRADED	ITEM 203.15 "COMMON EXCAVATION" ITEM 203.16 "SOLID ROCK EXCAVATION" ITEM 301.28 "SUBBASE OF CRUSHED GRAVEL, FINE GRADED"
3	CORRECT SUPERELEVATION DEFICIENCIES	ITEM 301.28 "SUBBASE OF CRUSHED GRAVEL, FINE GRADED"
4	PLACE PORTLAND CEMENT ON ROADBED SURFACE AND RECLAIM ROADBED 8", CURE, MICROCRACK, AND APPLY FOG SEAL SURFACE TREATMENT OR WET CURE AS DIRECTED BY THE RESIDENT ENGINEER.	ITEM 900.675 "SPECIAL PROVISION (RECLAIMED STABILIZED BASE, PORTLAND CEMENT)", ITEM 900.680 "SPECIAL PROVISION (PORTLAND CEMENT FOR BASE STABILIZATION)" AND ITEM 900.683 "SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT)"
5	PREPARE COLD PLANE GRINDINGS AND PLACE 4" COLD MIX RECYCLED ASPHALT SURFACE WITH PORTLAND CEMENT AND USE EMULSIFIED ASPALT AS A LIQUID BINDER.	ITEM 415.25 "EMULSIFIED ASPHALT, COLD MIX" ITEM 900.675 "SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT)" ITEM 900.680 "SPECIAL PROVISION (PORTLAND CEMENT FOR COLD MIXED RECYCLING)"
6	PLACE 1/2" LEVELING COURSE & 1 1/2"TYPE IVS WEARING COURSE	ITEM 490.30 "SUPERPAVE BITUMINOUS CONCRETE PAVEMENT"

NOTE: THIS LIST OF PROCEDURES FOR REHABILITATING THE EXISTING ROADBED IS PRESENTED FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL PREPARE THEIR OWN SCHEDULE OF OPERATIONS TO COMPLETE THE PROPOSED WORK IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS WHILE UTILIZING THE APPROPRIATE PAY ITEMS AS SHOWN IN THE PLANS AS DIRECTED BY THE RESIDENT ENGINEER.



CULVERTS WITH MINIMAL COVER DETAIL

WATERBURY
STA. A 164+52
STA. A 179+47

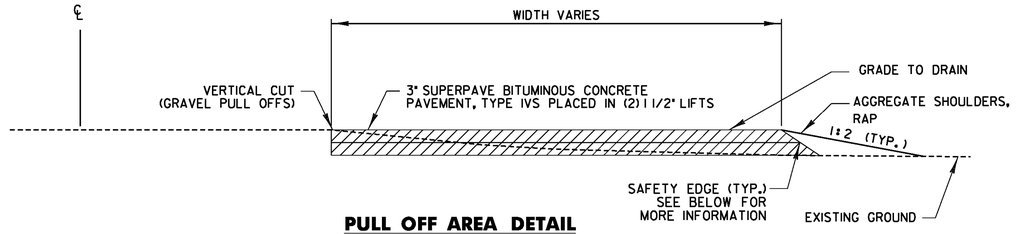


STONE FILL DETAIL

SEE ITEM DETAIL SHEETS FOR LOCATIONS

NOTES:

1. STONE FILL TO BE PLACED ON SLOPES STEEPER THAN 1:1.5.
2. ANY EXCAVATION REQUIRED TO INSTALL STONE SHALL BE PAID FOR UNDER ITEM 608.25 "ALL PURPOSE EXCAVATOR RENTAL, TYPE I".

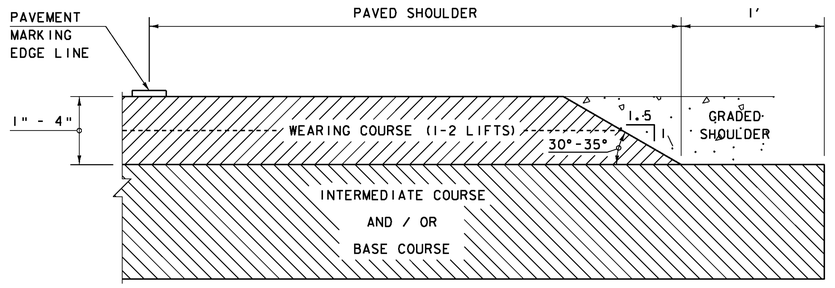


PULL OFF AREA DETAIL

BOLTON
STA. 289+75 LT

WATERBURY
STA. A 122+50 LT
STA. A 177+25 LT

NOTE: ANY EXCAVATION REQUIRED IN THE PULLOFF AREAS PRIOR TO PAVING SHALL BE PAID FOR UNDER THE APPROPRIATE RENTAL ITEMS.



SAFETY EDGE DETAIL

NOT TO SCALE

NOTES:

1. LEVELING COURSE MAY INCLUDE THE "SAFETY EDGE" AT THE CONTRACTOR'S CHOICE.
2. THE EDGE OF PAVEMENT SHALL BE FORMED IN SUCH A WAY THAT THE BITUMINOUS CONCRETE PAVEMENT IS EXTRUDED OR COMPRESSED TO FORM THE 30 TO 35 DEGREE ANGLE. DEVICES THAT SIMPLY STRIKE-OFF THE MIX WITHOUT PROVIDING ANY COMPACTIVE EFFORT WILL NOT BE ALLOWED.

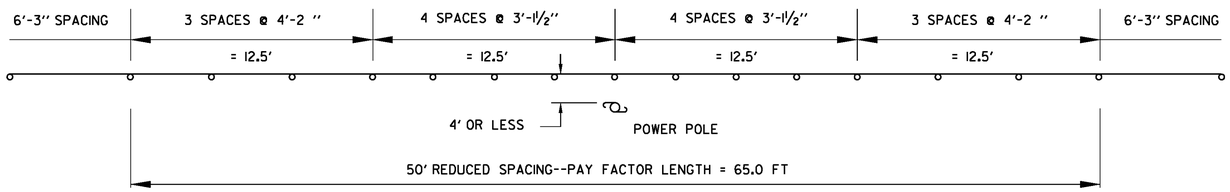
DETAILS ARE NOT TO SCALE

PROJECT TYPICAL SHEET 4

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_11.1

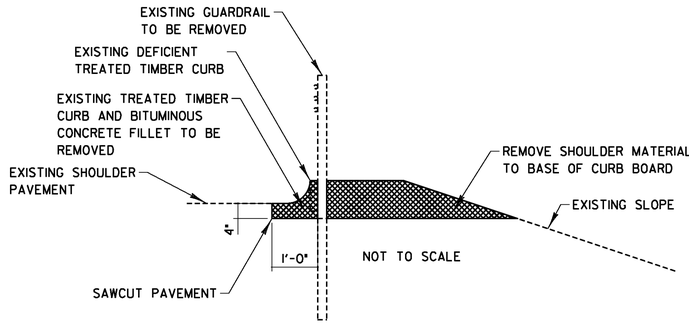
PLOT DATE: 04/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 11 OF 217



REDUCED POST SPACING GUARDRAIL DETAIL

OBJECTS WITHIN 4' OF GUARDRAIL

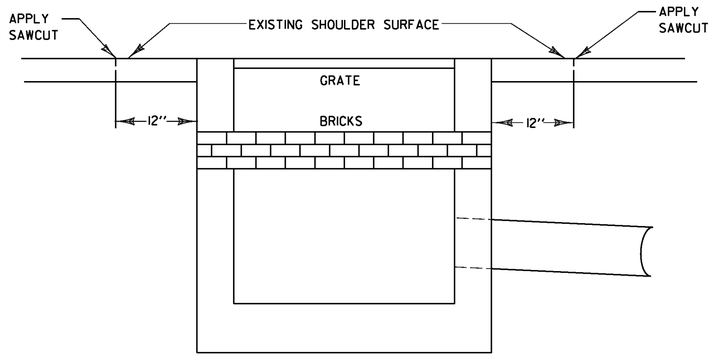
WATERBURY
STA. A 83+95 RT



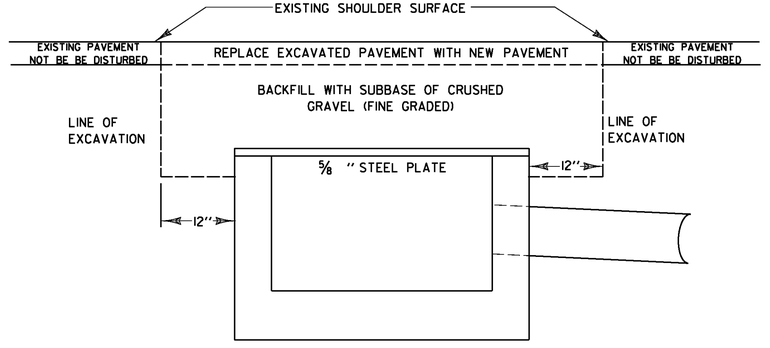
TREATED TIMBER CURB REMOVAL

WATERBURY
STA. A 14+20 - STA. A 16+50 LT

NOTE: THE REMOVAL OF TREATED TIMBER CURBING, INCLUDING THE BITUMINOUS CONCRETE FILLET, AND ANY SAWCUTTING FROM INSTALLATIONS WHERE EXISTING GUARDRAIL IS REMOVED WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO REMOVAL AND DISPOSAL OF GUARDRAIL.



EXISTING CURB DROP INLET

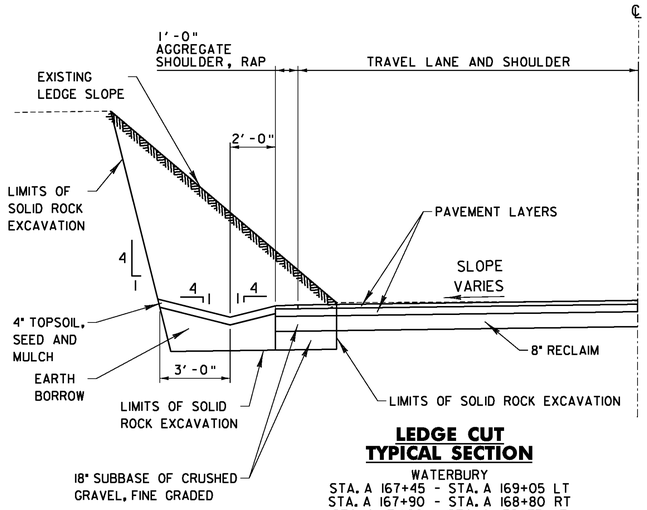


PROPOSED TREATMENT OF DROP INLET

SAWCUT EXISTING SHOULDER TO MINIMIZE DAMAGE TO ADJACENT PAVEMENT. EXCAVATE TO DEPTH REQUIRED & REMOVE TOP AND BRICKS FROM DI. PLACE STEEL PLATE ON DI AND BACKFILL WITH ITEM 301.28. EXCAVATED BITUMINOUS PAVEMENT SHALL BE REPLACED WITH NEW BITUMINOUS CONCRETE PAVEMENT, TYPE IIS. APPLICATION OF SAWCUT, REMOVAL AND DISPOSAL OF TOP AND BRICKS, FURNISHING STEEL PLATE, AND REQUIRED EXCAVATION SHALL BE PAID AS ONE EACH OF ITEM 900.620 SPECIAL PROVISION (CAP CURB DROP INLET).

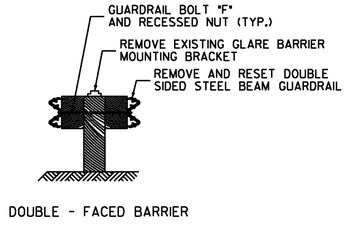
SPECIAL PROVISION (CAP CURB DROP INLET) DETAIL

WATERBURY
STA. A 14+20 LT

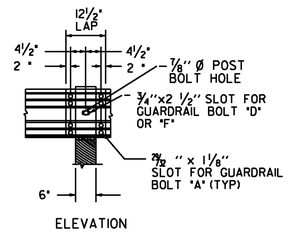


LEDGE CUT TYPICAL SECTION

WATERBURY
STA. A 167+45 - STA. A 169+05 LT
STA. A 167+90 - STA. A 168+80 RT
STA. A 171+60 - STA. A 172+75 LT
STA. A 173+05 - STA. A 173+30 RT
STA. A 178+15 - STA. A 178+85 LT



DOUBLE - FACED BARRIER



ELEVATION

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)

BOLTON
STA. 250+25 TO STA. 299+71

WATERBURY
STA. A 0+00 TO STA. A 43+54 RT

PAYMENT FOR REMOVAL OF EXISTING GLARE BARRIER MOUNTING BRACKETS AND REMOVAL AND RESETTING DOUBLE-SIDED STEEL BEAM RAIL SHALL BE PAID UNDER ITEM 621.75 "REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)".

DETAILS ARE NOT TO SCALE

PROJECT TYPICAL SHEET 5

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_12.1

PLOT DATE: 04/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 12 OF 217

QUANTITY SHEET 1

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

BRIDGE	TRAINING	FULL CE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
			1	1	LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	-
			7	7	EA	THINNING AND TRIMMING FOR SIGNS	201.31	EST.
			730	730	CY	COMMON EXCAVATION	203.15	16
			5350	5350	CY	SOLID ROCK EXCAVATION	203.16	72.3
			1050	1050	CY	EARTH BORROW	203.30	26
			3750	3750	CY	TRENCH EXCAVATION OF EARTH	204.20	14.9
			570	570	CY	TRENCH EXCAVATION OF ROCK	204.21	11.1
			1	1	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
			101200	101200	SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	980
			24500	24500	LF	MILLED RUMBLE STRIPS ⚠	213.10	EST.
			38100	38100	TON	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.28	335
			89400	89400	SY	RECLAIMED STABILIZED BASE	310.20	906
			810	810	TON	AGGREGATE SHOULDERS, RAP	402.13	5.6
			1	1	LU	PRICE ADJUSTMENT ASPHALT CEMENT (N.A.B.I.)	406.50	-
			18500	18500	CWT	EMULSIFIED ASPHALT, COLD MIX	415.25	EST.
			15100	15100	TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	189
			1	1	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-
			1	1	LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-
			1	1	LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	-
			1	1	LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	-
210				210	LF	BRIDGE EXPANSION JOINT, ASPHALT PLUG	516.10	-
20				20	CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	-
			1	1	EA	REHAB DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	-
			10150	10150	LF	6 INCH UNDERDRAIN PIPE	605.10	65
			60	60	HR	POWER GRADER RENTAL	608.15	EST.
			400	400	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.
			40	40	HR	POWER BROOM RENTAL, TYPE I	608.30	EST.
			450	450	HR	TRUCK RENTAL	608.37	EST.
			40	40	HR	LOADER RENTAL, TYPE I	608.40	EST.
			1700	1700	CY	STONE FILL, TYPE I	613.10	16
			12	12	EA	RELOCATE MAILBOX, SINGLE SUPPORT	617.10	EST.
			1	1	EA	RELOCATE MAILBOX, MULTIPLE SUPPORT	617.12	EST.
			150	150	EA	YIELDING MARKER POSTS	619.17	EST.
			2300	2300	LF	CHAIN-LINK FENCE, 6 FEET	620.12	20
			1	1	EA	BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 6 FEET	620.21	EST.

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		EARTH BORROW
900	CY	GUARDRAIL DETAIL SUMMARY SHEET 2
124	CY	ITEM DETAIL SUMMARY SHEET 2
26	CY	ROUNDING
1050	CY	TOTAL
		COLD PLANING - BITUMINOUS PAVEMENT
99298	SY	MAINLINE
922	SY	SIDEROAD APRONS
980	SY	ROUNDING
101200	SY	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
		WEARING COURSE
11266	TON	TYPE IVS
		LEVELING COURSE
3262	TON	TYPE IVS
		SIDE ROADS
253	TON	TYPE IVS
		PULL OFFS
105	TON	TYPE IVS
		I-89 EMERGENCY ACCESS
25	TON	TYPE IVS
189	TON	ROUNDING
15100	TON	TOTAL
		STONE FILL, TYPE I
542	CY	ITEM DETAIL SUMMARY SHEET 2
1142	CY	DITCH CLEANING DETAIL SHEET
16	CY	ROUNDING
1700	CY	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		YIELDING MARKER POSTS
114	EA	ITEM DETAIL SUMMARY SHEET 2
32	EA	UNDERDRAIN DETAIL SHEET
4	EA	ROUNDING
150	EA	TOTAL
		SUBBASE OF CRUSHED GRAVEL, FINE GRADED
25311	TON	RESHAPE ROADWAY
3480	TON	UNSUITABLE SHOULDER MATERIAL
7715	TON	CONCRETE SLAB REPLACEMENT
1158	TON	UNSUITABLE MATERIAL BENEATH CONCRETE SLAB
101	TON	LEDGE CUT AREAS
335	TON	ROUNDING
38100	TON	TOTAL

⚠ REVISED 6/4/13

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_13.I

PLOT DATE: 04/17/2013
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CHECKED BY: CDL
SHEET 13 OF 217

QUANTITY SHEET 2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

	BRIDGE	TRAINING	FULL CE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
				2300	2300	LF	REMOVAL OF EXISTING FENCE	620.55	20
				3250	3250	LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	621.205	31.25
				75	75	LF	STEEL BEAM GUARDRAIL, GALVANIZED/NESTED W/8 FEET POSTS	621.207	-
				250	250	LF	HD STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	621.215	-
				36	36	EA	ANCHOR FOR STEEL BEAM RAIL	621.60	-
				8518.75	8518.75	LF	REMOVE AND RESET GUARDRAIL	621.75	-
				9300	9300	LF	REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)	621.75	-
				903	903	EA	REPLACE GUARDRAIL POST ASSEMBLY	621.76	-
				544	544	EA	REPLACE GUARDRAIL BEAM UNIT	621.77	-
				2223	2223	LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	-
				1500	1500	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.
				6800	6800	HR	FLAGGERS	630.15	EST.
			1		1	LS	FIELD OFFICE, ENGINEERS	631.10	-
			1		1	LS	TESTING EQUIPMENT, CONCRETE	631.16	-
			1		1	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-
			3000		3000	DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	-
		520			520	HR	EMPLOYEE TRAINEESHIP	634.10	-
				1	1	LS	MOBILIZATION/DEMOBILIZATION	635.11	-
				1	1	LS	TRAFFIC CONTROL	641.10	-
				2	2	EA	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-
							BEGIN OPTION AA		
				79000	79000	LF	DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	646.402	1758
				79000	79000	LF	DURABLE 4 INCH WHITE LINE, POLYUREA	646.404	1758
							END OPTION AA		
							BEGIN OPTION BB		
				53000	53000	LF	DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC	646.412	908
				53000	53000	LF	DURABLE 4 INCH YELLOW LINE, POLYUREA	646.414	908
							END OPTION BB		
							BEGIN OPTION CC		
				110	110	LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	7
				110	110	LF	DURABLE 24 INCH STOP BAR, POLYUREA	646.484	7
							END OPTION CC		

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_14.1

PLOT DATE: 4/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 14 OF 217

QUANTITY SHEET 3

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

	BRIDGE	TRAINING	FULL CE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
							BEGIN OPTION DD		
				38	38	EA	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	-
				38	38	EA	DURABLE LETTER OR SYMBOL, POLYUREA	646.494	-
							END OPTION DD		
				310000	310000	LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	1032
				211000	211000	LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	2632
				425	425	LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	13
				160	160	EA	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	8
				3400	3400	EA	LINE STRIPING TARGETS	646.76	167
				10780	10780	SY	GEOTEXTILE UNDER STONE FILL	649.31	113
				1310	1310	SY	GEOTEXTILE FOR SILT FENCE	649.51	15.5
				390	390	LB	SEED	651.15	EST
				1620	1620	LB	FERTILIZER	651.18	EST
				6	6	TON	AGRICULTURAL LIMESTONE	651.20	EST
				6	6	TON	HAY MULCH	651.25	EST
				380	380	CY	TOPSOIL	651.35	6
				2400	2400	SY	GRUBBING MATERIAL	651.40	34
				12450	12450	SY	TEMPORARY EROSION MATTING	653.20	138
				2480	2480	LF	BARRIER FENCE	653.50	25
				2480	2480	LF	EROSION LOG	653.60	25
				1	1	LS	TREE PROTECTION	656.85	-
				630	630	SF	TRAFFIC SIGNS, TYPE A	675.20	10.12
				1900	1900	LF	SQUARE TUBE SIGN POSTS AND ANCHOR	675.341	1
				150	150	EA	REMOVING SIGNS	675.50	-
				36	36	EA	DELINEATOR WITH STEEL POST	676.10	-
				32	32	EA	REMOVAL OF EXISTING DELINEATOR	676.12	-
				285	285	EA	REMOVE AND REPLACE REFLECTOR UNIT	676.15	-
				1	1	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-
				27	27	EA	SPECIAL PROVISION (CORING CONCRETE)	900.620	-
				1	1	EA	SPECIAL PROVISION (CAP CURB DROP INLET)	900.620	-
				5800	5800	LF	SPECIAL PROVISION (REHABILITATE EXISTING FENCE)	900.640	74
				1	1	LS	SPECIAL PROVISION (CLEARING)	900.645	-
				135600	135600	SY	SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT)	900.675	1420
				38400	38400	SY	SPECIAL PROVISION (COLD PLANING BITUMINOUS PAVEMENT)	900.675	385.6

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		GEOTEXTILE UNDER STONE FILL
2117	SY	ITEM DETAIL SUMMARY SHEET 2
8550	SY	DITCH CLEANING DETAIL SHEET
113	SY	ROUNDING
10780	SY	TOTAL
		TOPSOIL
180	CY	GUARDRAIL DETAIL SUMMARY SHEET 2
194	CY	ITEM DETAIL SUMMARY SHEET 2
6	CY	ROUNDING
380	CY	TOTAL
		TEMPORARY EROSION MATTING
900	SY	GUARDRAIL DETAIL SUMMARY SHEET 2
3624	SY	ITEM DETAIL SUMMARY SHEET 2
7788	SY	DITCH CLEANING DETAIL SHEET
138	SY	ROUNDING
12450	SY	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_15.1

PLOT DATE: 04/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 15 OF 217

QUANTITY SHEET 4

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

	BRIDGE	TRAINING	FULL CE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
				2900	2900	SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS	900.675	15.5
							CONCRETE MATERIAL, DRIVES)		
				136100	136100	SY	SPECIAL PROVISION (RECLAIMED STABILIZED BASE,	900.675	1368
							PORTLAND CEMENT)		
				3150	3150	TON	SPECIAL PROVISION (PORTLAND CEMENT FOR	900.680	58
							BASE STABILIZATION)		
				310	310	TON	SPECIAL PROVISION (PORTLAND CEMENT FOR	900.680	8
							COLD MIXED RECYCLING)		
				43500	43500	TON	SPECIAL PROVISION (MATERIAL TRANSFER VEHICLE)	900.680	723.6
				1300	1300	CWT	SPECIAL PROVISION (EMULSIFIED ASPHALT)	900.683	EST.
							(RS-1H OR CRS-1H)		
				1750	1750	CWT	SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT)	900.683	52.4

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_16.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 16 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

GUARDRAIL DETAIL SUMMARY SHEET 1

BEGIN STATION	END STATION	POS.	203.30 EARTH BORROW	621.205 STEEL BEAM G.R. GALV W/8FT POSTS	621.207 STEEL BEAM G.R. GALV/NEST W/8 FT POSTS	621.215 HD STEEL BEAM G.R. GALV W/8 FT POSTS	621.60 ANCHOR FOR S.B. GUARDRAIL	621.75 REMOVE AND RESET G.R.	621.75 REMOVE AND RESET G.R. (DOUBLE-SIDED)	621.76 REPLACE G.R. POST ASSEMBLY	621.77 REPLACE G.R. BEAM UNIT	621.80 REMOVE & DISP. OF G.R.	651.35 TOPSOIL	653.20 TEMP. EROSION MATTING	676.10 DELINE. WITH STEEL POSTS	676.12 REMOVAL OF EXIST. DELINE.	676.15 REMOVE & REPLACE REFLECTOR UNIT	REMARKS
			CY	LF	LF	LF	EACH	LF		EACH	EACH	LF	CY	SY	EACH	EACH	EACH	
BOLTON																		
147+90	150+27.5	LT	25	12.5			1	225		10	5	13	5	25	1	1	8	INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. 147+90. CONNECT TO EXISTING GUARDRAIL.
148+56	151+68.5	RT	25	12.5		31.25	1	275		12	6	38	5	25	1	1	9	INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. 148+56. CONNECT TO EXISTING BRIDGE RAIL.
151+17.5	151+63.25	LT				31.25		25				25					1	CONNECT TO EXISTING GUARDRAIL AND EXISTING BRIDGE RAIL.
152+74	154+36.5	LT	25	12.5		31.25	1	125		6	3	38	5	25	1	1	4	CONNECT TO EXISTING BRIDGE RAIL. INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. 154+36.5.
152+76.25	169+57.5	RT	25	12.5		31.25	1	1643.75		66	33	38	5	25	1	1	53	CONNECT TO EXISTING BRIDGE RAIL. INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. 169+57.5.
210+20	217+51.25	LT	50	43.75	25		2	681.25		28	14	38	10	50	2	2	23	INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. 210+20 AND STA. 217+51.25.
247+87.5	250+12.5	LT	50	75			2	206.25		8	4	47	10	50	2	2	8	INSTALL 50'-0" LONG, 25' RADIUS, AND 12'-6" TANGENT WITH ANCHOR AT STA. 247+87.5.
																		INSTALL 12'-6", 16' RADIUS WITH ANCHOR AT STA. 250+12.5
249+75	299+71	RT	25	12.5			1	37.5	4946	199	199	13	5	25	1	1		INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. 249+75.
WATERBURY																		
A 0+00	A 44+04	RT	25	12.5			1	37.5	4354	176	176	13	5	25	1	1		INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 44+04.
A 8+12.5	A 16+50	LT	50	25			2	812.5		32	16	25	10	50	2	2	27	INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 8+12.5 AND STA. A 16+50.
A 44+20.75	A 46+60	LT	50	143.75			2	137.5		6	3	31	10	50	2	2	8	INSTALL 12'-6" LONG, 16' RADIUS, 6'-3" TANGENT, 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 44+20.75 AND 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 46+60.
A 57+87.5	A 60+78.5	RT	50	37.5			2	287.5		12	6	38	10	50	2	2	10	INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 57+87.5 AND 25'-0" LONG, 16' RADIUS WITH ANCHOR AT STA. A 60+78.5.
A 59+25	A 63+75	LT	50	25			2	456.25		18	9	25	10	50	2	2	15	INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 59+20.75 AND STA. A 63+75.
A 61+20.25	A 68+12.5	RT	50	37.5			2	662.5		26	13	27	10	50	2	2	22	INSTALL 25'-0" LONG, 16' RADIUS WITH ANCHOR AT STA. A 61+20.25 AND 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 68+12.5.
A 70+30	A 74+36.25	RT	50	406.25			2					401	10	50	2	2		INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 70+30 AND STA. A 74+36.25.
A 77+82.5	A 84+38.75	RT	50	631.25	25		2						10	50	2			INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 77+82.5 AND STA. A 84+38.75.
A 79+10	A 83+35	LT	50	400	25		2						10	50	2			INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 79+10 AND STA. A 83+35.
A 124+49	A 132+42.75	RT	25	12.5		31.25	1	756.25		119	15	38	5	25	1	1	25	INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 124+49. CONNECT TO EXISTING BRIDGE RAIL. REPLACE ALL WOODEN POSTS.
A 131+04.75	A 132+61	LT	25	12.5		31.25	1	118.75		14	2	38	5	25	1	1	4	INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 131+04.75. CONNECT TO EXISTING BRIDGE RAIL. REPLACE ALL WOODEN POSTS.
A 135+08.75	A 145+65	RT	25	12.5		31.25	1	1018.75		119	20	38	5	25	1	1	33	CONNECT TO EXISTING BRIDGE RAIL. INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 145+65. REPLACE ALL WOODEN POSTS.
A 135+21.5	A 136+96.5	LT	25	12.5		31.25	1	137.5		18	3	38	5	25	1	1	5	CONNECT TO EXISTING BRIDGE RAIL. INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 136+96.5. REPLACE ALL WOODEN POSTS.
SUBTOTAL			750	1950	75	250	30	7643.75	9300	869	527	962	150	750	30	26	255	

GUARDRAIL DETAIL SUMMARY SHEET 1

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_I7.I

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 17 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

GUARDRAIL DETAIL SUMMARY SHEET 2

BEGIN STATION	END STATION	POS.	203.30 EARTH BORROW	621.205 STEEL BEAM G.R. GALV W/8FT POSTS	621.207 STEEL BEAM G.R. GALV/NEST W/8 FT POSTS	621.215 HD STEEL BEAM G.R. GALV W/8 FT POSTS	621.60 ANCHOR FOR S.B. GUARDRAIL	621.75 REMOVE AND RESET G.R.	621.75 REMOVE AND RESET G.R. (DOUBLE-SIDED)	621.76 REPLACE G.R. POST ASSEMBLY	621.77 REPLACE G.R. BEAM UNIT	621.80 REMOVE & DISP. OF G.R.	651.35 TOPSOIL	653.20 TEMP. EROSION MATTING	676.10 DELINE. WITH STEEL POSTS	676.12 REMOVAL OF EXIST. DELINE.	676.15 REMOVE & REPLACE REFLECTOR UNIT	REMARKS
			CY	LF	LF	LF	EACH	LF	LF	EACH	EACH	LF	CY	SY	EACH	EACH	EACH	
A 142+30	A 144+73.75	LT	50	25			2	218.75		8	4	25	10	50	2	2	8	INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 142+30 AND STA. A 144+73.75.
A 163+30	A 175+48.75	RT	50	1218.75			2					1210	10	50	2	2		INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 163+30 AND STA. 175+48.75.
A 181+18.75	A 186+18.75	RT	25	12.5			1	487.5		20	10	13	5	25	1	1	16	INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 181+18.75. CONNECT TO EXISTING GUARDRAIL.
A 184+40	A 186+21.25	LT	25	12.5			1	168.75		6	3	13	5	25	1	1	6	INSTALL 12'-6" LONG, 16' RADIUS WITH ANCHOR AT STA. A 184+40. CONNECT TO EXISTING GUARDRAIL.
SUBTOTAL THIS SHEET			150	1268.75	-	-	6	875	-	34	17	1261	30	150	6	6	30	
SUBTOTAL SHEET 1			750	1950	75	250	30	7643.75	9300	869	527	962	150	750	30	26	255	
ROUNDING			-	31.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL			900	3250	75	250	36	8518.75	9300	903	544	2223	180	900	36	32	285	

GUARDRAIL DETAIL SUMMARY SHEET 2

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_18.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 18 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

ITEM DETAIL SUMMARY SHEET 1

BEGIN STATION	END STATION	POS.	203.15 COMMON EXCAV.	203.16 SOLID ROCK EXCAV.	203.30 EARTH BORROW	204.22 TRENCH EXCAV. OF EARTH, EXP. (N.A.B.I.)	301.28 SUBBASE OF CR. GRAVEL, FINE GR.	402.13 AGG. SHOULD. RAP	604.412 REHAB. D.I. CLASS I	613.10 STONE FILL, TYPE I	619.17 YIELDING MARKER POSTS	620.12 CHAIN-LINK FENCE, 6 FEET	620.55 REMOVAL OF EXISTING FENCE	649.31 GEOT. UNDER STONE FILL	651.35 TOPSOIL	651.40 GRUBBING MATERIAL	653.20 TEMP. EROSION MATTING	900.640 SP. PROV. REHAB. EXISTING FENCE	REMARKS
			CY	CY	CY	CY	TON	TON	EACH	CY	EACH	LF	LF	SY	CY	SY	SY	LF	
BOLTON																			
99+25	299+71	LT&RT	205	1368.8		1	15654	417			76				68				
169+30	169+90	RT										60	60						
170+26	181+00	RT																1074	
181+00	186+50	RT										550	550						
186+50	189+55	RT																305	
189+55	202+05	RT										1250	1250						
202+05	204+75	RT																270	
204+75	205+55	RT										80	80						
205+55	212+70	RT																715	
212+70	215+50	RT										280	280						
215+50	239+20	RT																2370	
239+20	239+80	RT										60	60						
239+80	249+72	RT																992	
249+72	299+71	RT																	
WATERBURY																			
A 0+00	A 186+25	LT&RT	509	3393			22010	387.4	1		38				64				
A 0+00	A 43+93	RT																	
A 71+00	A 73+73	RT								108				414		186	414		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
A 78+05	A 78+25	RT								3				17		4	17		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
A 78+32	A 79+65	RT								34				145		51	145		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
A 79+20	A 82+75	LT								118				473		195	473		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
A 81+20	A 82+54	RT								37				154		57	154		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
A 83+00	A 83+74	RT								21				86		32	86		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
A 111+30	A 112+66	RT								52				200		89	200		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
SUBTOTAL			714	4761.8	-	1	37664	804.4	1	373	114	2280	2280	1489	132	614	1489	5726	

ITEM DETAIL SUMMARY SHEET 1

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_19.1

PLOT DATE: 04/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 19 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

ITEM DETAIL SUMMARY SHEET 2

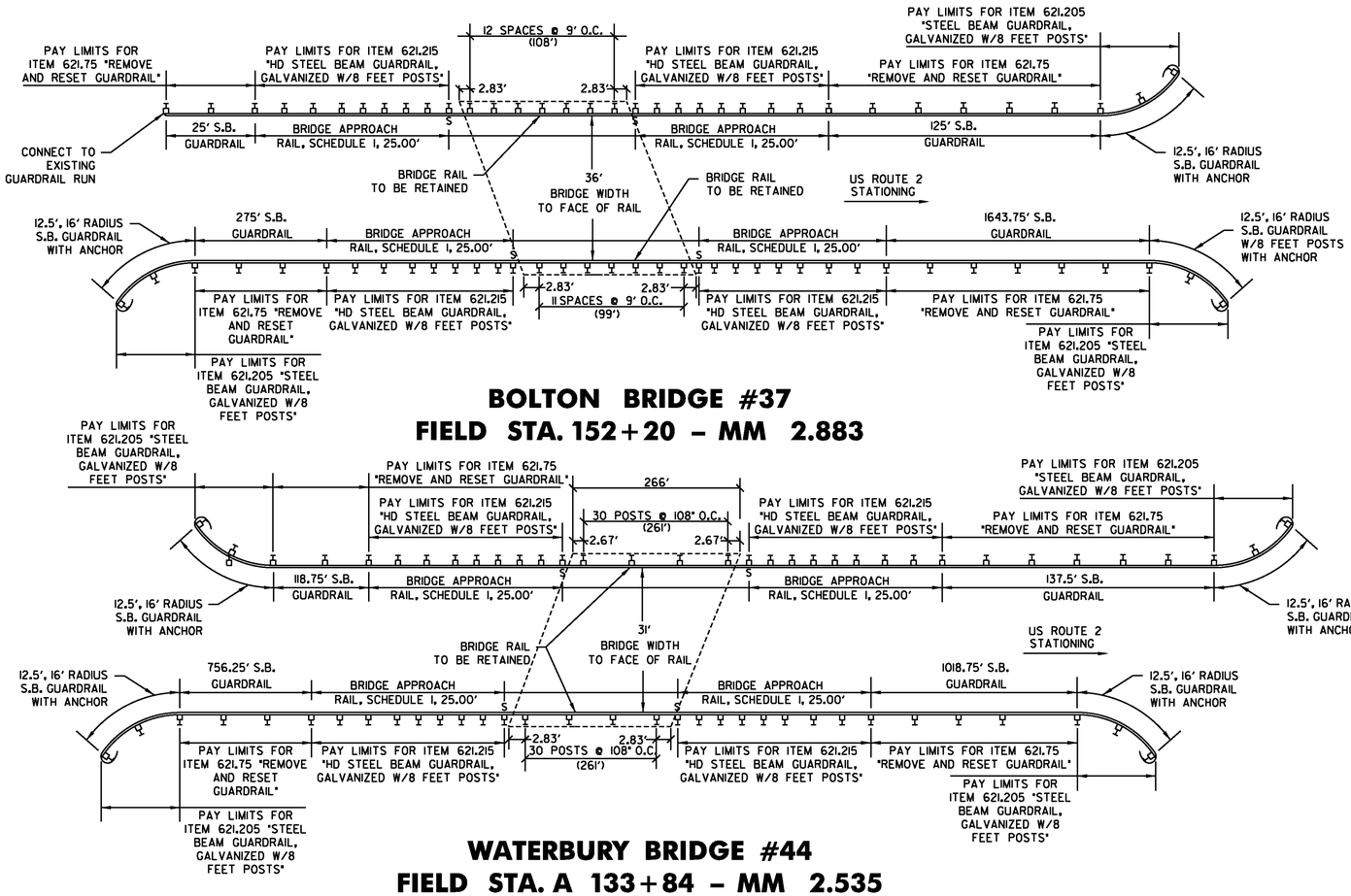
BEGIN STATION	END STATION	POS.	203.15 COMMON EXCAV.	203.16 SOLID ROCK EXCAV.	203.30 EARTH BORROW	204.22 TRENCH EXCAV. OF EARTH, EXP. (N.A.B.I.)	301.28 SUBBASE OF CR. GRAVEL, FINE GR.	402.13 AGG. SHOULD. RAP	604.412 REHAB. D.I. CLASS I	613.10 STONE FILL, TYPE I	619.17 YIELDING MARKER POSTS	620.12 CHAIN-LINK FENCE, 6 FEET	620.55 REMOVAL OF EXISTING FENCE	649.31 GEOT. UNDER STONE FILL	651.35 TOPSOIL	651.40 GRUBBING MATERIAL	653.20 TEMP. EROSION MATTING	900.640 SP. PROV. REHAB. EXISTING FENCE	REMARKS
			CY	CY	CY	CY	TON	TON	EACH	CY	EACH	LF	LF	SY	CY	SY	SY	LF	
A 113+57	A 115+09	RT								61				232		105	232		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
A 121+80	A 123+64	LT													31				
A 132+54	A 133+40	LT&RT														319	319		PLACE 1'-0" GRUBBING MATERIAL AND SEED ON EXISTING STONE FILL BENEATH U.S. 2 BRIDGE.
A 132+82	A 133+84	LT														468	468		PLACE 1'-0" GRUBBING MATERIAL AND SEED ON EXISTING STONE FILL BENEATH I-89 BRIDGE.
A 133+32	A 134+21	LT														401	401		PLACE 1'-0" GRUBBING MATERIAL AND SEED ON EXISTING STONE FILL BENEATH I-89 BRIDGE.
A 134+30	A 135+11	LT&RT														319	319		PLACE 1'-0" GRUBBING MATERIAL AND SEED ON EXISTING STONE FILL BENEATH U.S. 2 BRIDGE.
A 163+90	A 163+98	RT								3				11		4	11		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
A 164+35	A 165+22	RT								20				89		28	89		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
A 166+30	A 166+70	RT								10				44		16	44		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
A 167+45	A 169+05	LT		220.8	43.1		35								10				
A 167+90	A 168+80	RT		81.4	24.3		20								6				
A 169+54	A 170+51	RT								44				105		40	105		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
A 171+60	A 172+75	LT		135.1	31		25								8				
A 172+83	A 172+94	RT								2				9		2	9		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
A 173+05	A 173+30	RT		34.6	6.7		6								2				
A 173+76	A 174+40	RT								17				78		30	78		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
A 176+82	A 177+38	RT								12				60		20	60		PLACE STONE FILL ON SLOPES GREATER THAN 1:1.5 FOR SLOPE STABILIZATION
A 178+15	A 178+85	LT		44	18.9		15								5				
SUBTOTAL THIS SHEET			-	515.9	124	-	101	-	-	169	-	-	-	628	62	1752	2135	-	
SUBTOTAL SHEET 1			714	4761.8	-	1	37664	804.4	1	373	114	2280	2280	1489	132	614	1489	5726	
ROUNDING			16	72.3	-	-	335	5.6	-	-	-	20	20	-	-	34	-	74	
TOTAL			730	5350	124	1	38100	810	1	542	114	2300	2300	2117	194	2400	3624	5800	

ITEM DETAIL SUMMARY SHEET 2

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

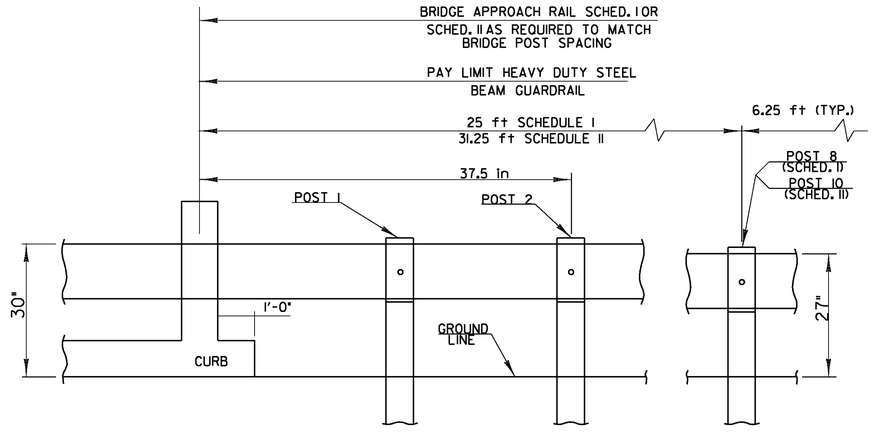
FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_20.1

PLOT DATE: 04/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 20 OF 217



BOLTON BRIDGE #37
FIELD STA. 152+20 – MM 2.883

WATERBURY BRIDGE #44
FIELD STA. A 133+84 – MM 2.535



BRIDGE APPROACH RAILING

DETAILS ARE NOT TO SCALE

NOTES:

1. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25 FEET.
2. APPROACH RAILING SHALL BE HEAVY DUTY STEEL BEAM FOR LENGTHS OF 25 FEET OR 31.25 FEET DETERMINED BY THE SCHEDULE. SEE BRIDGE DETAILS.
3. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS PRACTICAL TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH RAIL POST 1.
4. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.

BRIDGE APPROACH RAILING

WHEN A RAIL PANEL SPLICE OCCURS AT POST NO. 1 USE SCHEDULE I FOR APPROACH RAILING. WHEN A RAIL PANEL SPLICE OCCURS AT BRIDGE END POST USE SCHEDULE II FOR APPROACH RAILING.

SCHEDULE I

POST NO.	SPACING	PAYMENT FACTOR
1	3'-1½"	1.4 x 12.5 ft
2	3'-1½"	
3	3'-1½"	
4	3'-1½"	
5	4'-2"	1.2 x 12.5 ft
6	4'-2"	
7	4'-2"	
8	6'-3" (TYP.)	1.0 (TYP.)
9		

SCHEDULE II

POST NO.	SPACING	PAYMENT FACTOR
1	3'-1½"	1.4 X 18.75 ft
2	3'-1½"	
3	3'-1½"	
4	3'-1½"	
5	3'-1½"	
6	3'-1½"	
7	4'-2"	1.2 x 12.5 ft
8	4'-2"	
9	4'-2"	
10	6'-3" (TYP.)	1.0 (TYP.)
11		

BRIDGE RAILING DETAIL SHEET

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_21.I

PLOT DATE: 4/16/2013
DRAWN BY: JBG
CHECKED BY: CDL
SHEET 21 OF 217

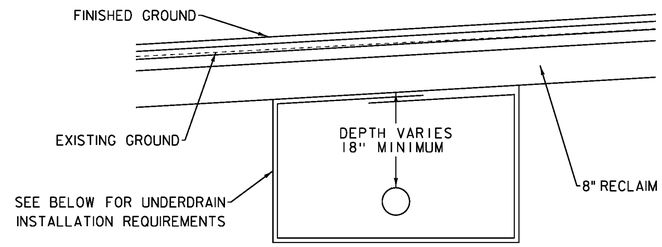
STATION	POSITION	TYPE	QUANTITY (SY)
BOLTON			
102+56	LT	PAVED	57.9
103+74	RT	GRAVEL	39.5
106+74	RT	PAVED	24.6
107+30	LT	PAVED	55.5
108+18	LT	PAVED	8.8
108+29	RT	PAVED	24.4
109+48	RT	PAVED	18.3
110+11	LT	PAVED	18.9
111+16	RT	GRAVEL	12.5
111+76	LT	PAVED	19.6
112+80	RT	GRAVEL	18.3
113+38	LT	PAVED	50.2
114+84	RT	PAVED	26.2
115+91	LT	GRAVEL	14.2
117+64	LT	PAVED	10.5
127+05	RT	GRAVEL	18.7
127+24	LT	GRAVEL	13.3
127+59	RT	GRAVEL	14.3
128+63	LT	PAVED	13.2
129+22	LT	GRAVEL	18.3
134+64	RT	PAVED	122.8
135+57	LT	GRAVEL	9.0
136+87	LT	GRAVEL	13.5
137+30	LT	GRAVEL	13.3
137+84	RT	PAVED	138.0
138+49	LT	GRAVEL	5.5

STATION	POSITION	TYPE	QUANTITY (SY)
139+48	LT	GRAVEL	13.8
140+53	LT	GRAVEL	14.6
154+60	LT	GRAVEL	21.7
156+26	LT	GRAVEL	45.2
170+16	RT	PAVED	209.0
175+62	LT	GRAVEL	44.7
183+20	LT	PAVED	76.9
189+86	LT	GRAVEL	14.6
200+50	LT	GRAVEL	20.0
202+13	LT	GRAVEL	33.1
203+17	LT	GRAVEL	20.2
206+62	LT	GRAVEL	21.5
219+59	LT	GRAVEL	32.8
226+34	LT	GRAVEL	17.2
228+46	LT	GRAVEL	21.8
243+02	LT	GRAVEL	25.8
246+26	LT	GRAVEL	17.7
263+12	LT	GRAVEL	15.8
270+38	LT	GRAVEL	24.4
WATERBURY			
A 6+26	LT	GRAVEL	32.0
A 16+81	LT	GRAVEL	19.8
A 40+59	LT	PAVED	25.1
A 44+05	LT	GRAVEL	20.0
A 58+95	LT	GRAVEL	46.0
A 69+25	RT	GRAVEL	92.3
A 72+64	LT	GRAVEL	19.7

STATION	POSITION	TYPE	QUANTITY (SY)
A 78+18	LT	GRAVEL	19.8
A 83+51	LT	GRAVEL	13.1
A 85+07	RT	GRAVEL	15.8
A 86+31	LT	GRAVEL	22.2
A 87+89	LT	PAVED	27.2
A 88+94	LT	PAVED	31.0
A 89+94	LT	GRAVEL	17.2
A 92+86	LT	GRAVEL	19.0
A 96+23	RT	GRAVEL	72.4
A 98+91	LT	GRAVEL	13.3
A 99+00	RT	GRAVEL	18.0
A 101+00	RT	GRAVEL	17.2
A 101+61	RT	PAVED	24.9
A 102+41	LT	PAVED	36.8
A 103+64	RT	GRAVEL	17.7
A 104+22	LT	PAVED	18.0
A 104+37	RT	GRAVEL	20.0
A 104+94	LT	PAVED	14.0
A 105+71	RT	GRAVEL	10.5
A 107+29	LT	PAVED	17.9
A 107+70	RT	GRAVEL	9.7
A 108+88	LT	GRAVEL	11.7
A 109+31	RT	PAVED	28.2
A 111+31	LT	GRAVEL	20.5
A 116+05	RT	GRAVEL	29.3
A 122+65	RT	GRAVEL	9.9
A 123+87	RT	GRAVEL	53.0

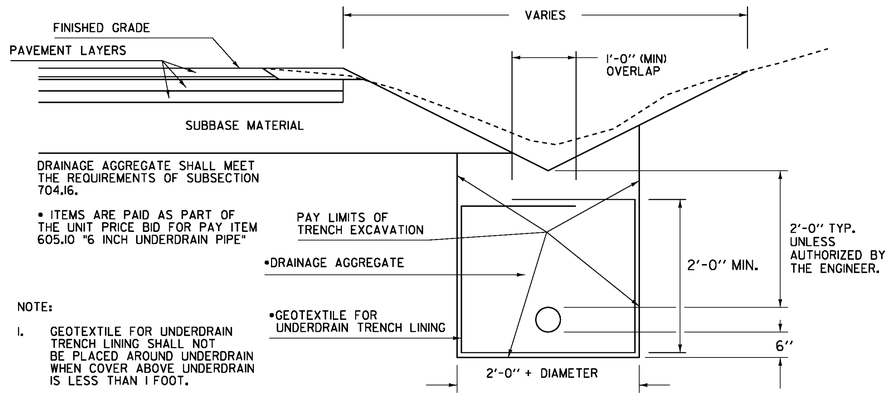
STATION	POSITION	TYPE	QUANTITY (SY)
A 137+21	LT	GRAVEL	26.4
A 148+54	LT	PAVED	19.3
A 149+82	RT	PAVED	92.0
A 150+52	RT	GRAVEL	25.6
A 150+59	LT	PAVED	20.0
A 153+70	LT	GRAVEL	24.6
A 155+71	LT	GRAVEL	24.9
A 156+18	RT	GRAVEL	15.0
A 156+74	RT	GRAVEL	11.5
A 159+12	RT	GRAVEL	14.1
A 162+26	LT	PAVED	71.7
A 175+62	RT	PAVED	35.0
A 178+26	RT	GRAVEL	10.3
A 180+42	RT	PAVED	160.8

LOCATION						MISC. ITEMS					REMARKS
SITE		STATION		STATION	POS.	605.10	*	*	204.20	619.17	* ITEMS TO BE PAID AS PART OF ITEM
						6 INCH	DRAINAGE	GEOTEXTILE	TRENCH	YIELDING	605.10 "6 INCH UNDERDRAIN PIPE"
						UNDERDRAIN PIPE	AGGREGATE	FOR TRENCH	EXCAVATION	MARKER POSTS	
						LF	CY	SY	CY	EA	
1		130+75		134+00	RT	325.0	120.4	505.6	120.4	2	
2		171+25		174+02	RT	277.0	102.6	430.9	102.6	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
3		174+02		175+75	RT	173.0	64.1	269.1	64.1	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
4		176+00		180+75	RT	475.0	175.9	738.9	175.9	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
5		181+00		185+75	RT	475.0	175.9	738.9	175.9	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
6		186+01		190+75	RT	474.0	175.6	737.3	175.6	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
7		191+00		195+75	RT	475.0	175.9	738.9	175.9	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
8		196+00		199+25	RT	325.0	120.4	505.6	120.4	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
9		211+50		215+98	RT	448.0	165.9	696.9	165.9	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
10		216+25		217+99	RT	174.0	64.4	270.7	64.4	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
11		217+99		220+75	RT	276.0	102.2	429.3	102.2	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
12		221+00		225+75	RT	475.0	175.9	738.9	175.9	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
13		226+00		230+50	RT	450.0	166.7	700.0	166.7	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
14		230+95		235+50	RT	455.0	168.5	707.8	168.5	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
15		236+00		240+75	RT	475.0	175.9	738.9	175.9	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
16		241+00		243+75	RT	275.0	101.9	427.8	101.9	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
17		244+00		247+75	RT	375.0	138.9	583.3	138.9	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
18		251+48		255+75	LT	427.0	158.1	664.2	158.1	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
19		255+90		259+75	LT	385.0	142.6	598.9	142.6	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
20		259+85		262+75	LT	290.0	107.4	451.1	107.4	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
21		267+32		270+00	LT	268.0	99.3	416.9	99.3	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
22		278+82		282+25	LT	343.0	127.0	533.6	127.0	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
23		282+42		285+00	LT	258.0	95.6	401.3	95.6	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
24		295+25		299+08	LT	383.0	141.9	595.8	141.9	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
25A		299+08		299+71	LT	63.0	23.3	98.0	23.3	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
25B	A	0+00	A	2+00	LT	225.0	83.3	350.0	83.3	2	
26	A	2+75	A	5+75	LT	300.0	111.1	466.7	111.1	2	
27	A	20+16	A	24+50	LT	434.0	160.7	675.1	160.7	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
28	A	24+68	A	27+75	LT	307.0	113.7	477.6	113.7	1	CONNECT UNDERDRAIN TO CATCH
											BASIN (SP. PROV. (CORING CONCRETE))
		SUBTOTAL				10085.0	3735.1	15688.0	3735.1	32	
		ROUNDING				65.0	-	-	14.9	-	
		TOTAL				10150.0	3735.1	15688.0	3750.0	**	** SEE QUANTITY SHEETS FOR TOTAL QUANTITIES.



UNDERDRAIN CROSSING ROAD DETAIL

NOT TO SCALE



UNDERDRAIN DETAIL

NOT TO SCALE

UNDERDRAIN DETAIL SHEET 1

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

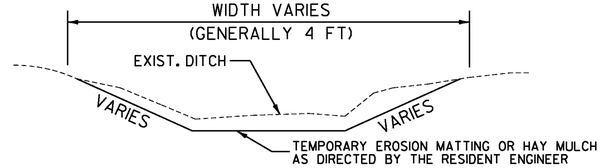
FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_23.1

PLOT DATE: 04/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 23 OF 217

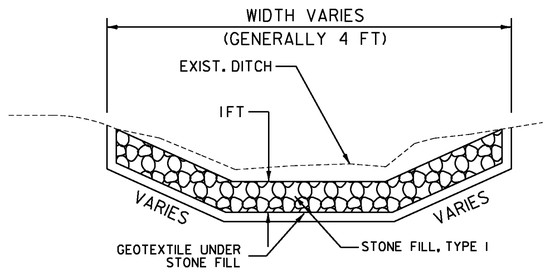
LOCATION				FEET OF DITCHING		MISC. ITEMS			REMARKS
						653.20	613.10	649.31	
SITE	STA.	STA.	POS.	PERCENT GRADE		TEMP. EROS. MATT.	STONE FILL TYP. I	GEOT. UNDER STONE FILL	
				0-2.5	2.5-10	SY	CY	SY	
	US 2								
BOLTON									
1	130+75	134+25	RT	350		156			
2	158+40	169+00	LT	1060		471			
3	218+00	244+50	RT	2650		1178			
4	256+00	298+30	RT	4230		1880			BREAK AT DRIVES
5	272+00	299+25	RT	2725		1211			
WATERBURY									
6	A 0+00	A 58+10	LT	1500	4310	667	639	3873	
7	A 0+00	A 21+50	RT	225	1925	100	285	1433	
8	A 25+00	A 35+00	RT	950	50	422	7	667	
9	A 69+75	A 77+90	LT	515	300	289	44	543	
10	A 95+05	A 105+60	LT	1055		469			BREAK AT DRIVES
11	A 114+75	A 121+50	LT	225	450	100	67	450	
12	A 145+25	A 167+50	LT	1700	525	756	78	1483	BREAK AT DRIVES
13	A 145+75	A 147+25	RT		150		22	100	
14	A 179+25	A 181+25	LT	200		89			
BOLTON				11015	-	4896	-	-	
WATERBURY				6370	7710	2892	1142	8549	
		SUBTOTAL		17385	7710	7788	1142	8549	
		ROUNDING		-	-	-	-	-	
		TOTAL		-	-	-	-	-	

LOCATION				FEET OF DITCHING		MISC. ITEMS			REMARKS
						653.20	613.10	649.31	
SITE	STA.	STA.	POS.	PERCENT GRADE		TEMP. EROS. MATT.	STONE FILL TYP. I	GEOT. UNDER STONE FILL	
				0-2.5	2.5-10	SY	CY	SY	

LOCATION				FEET OF DITCHING		MISC. ITEMS			REMARKS
						653.20	613.10	649.31	
SITE	STA.	STA.	POS.	PERCENT GRADE		TEMP. EROS. MATT.	STONE FILL TYP. I	GEOT. UNDER STONE FILL	
				0-2.5	2.5-10	SY	CY	SY	



DITCH DETAIL < 2.5 PERCENT
NOT TO SCALE



DITCH DETAIL > 2.5 PERCENT
NOT TO SCALE

NOTES:

1. PIPE INLET AND OUTLET AREAS AND DITCH CLEANING THROUGHOUT THE PROJECT SHALL BE PERFORMED AT LOCATIONS IDENTIFIED ON THIS SHEET AND AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).
2. GRADES BETWEEN 0 AND 2.5 PERCENT SHALL USE ITEM 651.25, HAY MULCH OR ITEM 653.20, TEMPORARY EROSION MATTING AS DIRECTED BY THE RESIDENT ENGINEER. GRADES OVER 2.5 PERCENT SHALL USE ITEM 649.31, GEOTEXTILE UNDER STONE FILL AND ITEM 613.10, STONE FILL TYPE I AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

DITCH CLEANING DETAIL SHEET

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_24.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 24 OF 217

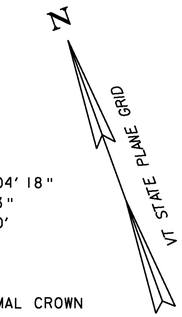
DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 99+25 - STA. 100+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 99+25 - STA. 100+50 (SOLID LT, DASHED RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 99+25 - STA. 100+50 (SOLID LT & RT)

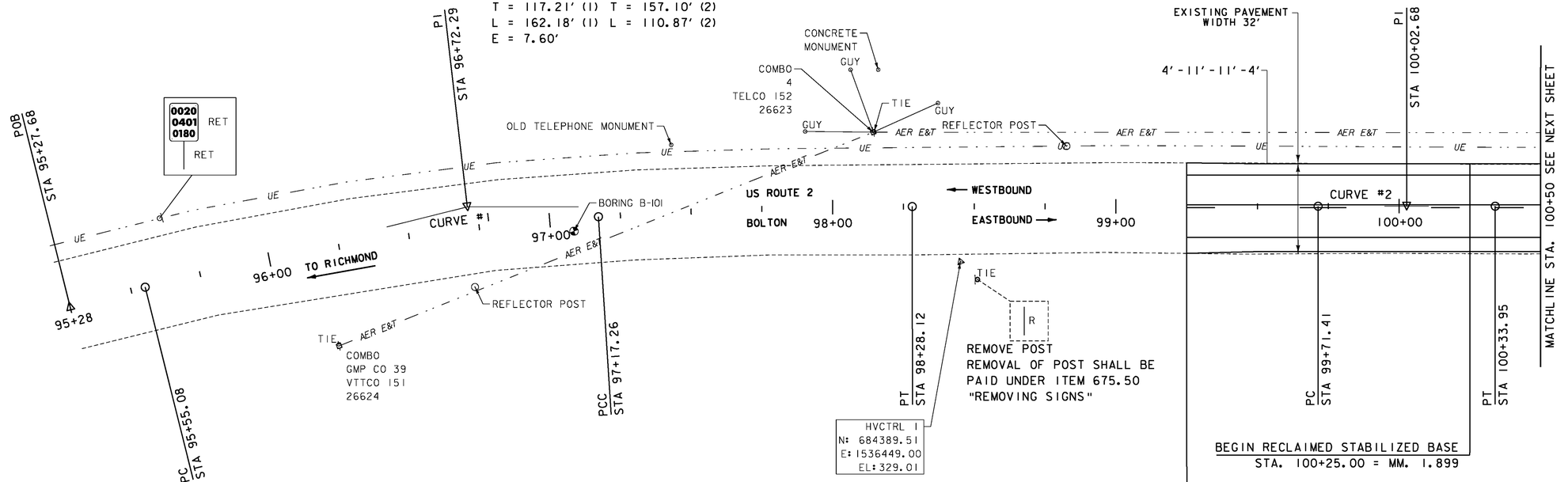
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 99+25 - STA. 100+50 (SOLID LT, DASHED RT)

REMOVING SIGNS
AS SHOWN - 1



CURVE #2
DELTA = 0°04'18"
D = 0°06'53"
R = 50000.00'
T = 31.27'
L = 62.54'
E = 0.01'
BANKING NORMAL CROWN
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

CURVE #1
DELTA = 13°57'16"
D = 6°21'58"(1) D = 3°16'27"(2)
R = 900.00' (1) R = 1750.00' (2)
T = 117.21' (1) T = 157.10' (2)
L = 162.18' (1) L = 110.87' (2)
E = 7.60'



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
---- = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 1

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_25.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 25 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 100+50 - STA. 106+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 100+50 - STA. 103+00 (SOLID LT, DASHED RT)
STA. 103+00 - STA. 106+25 (DASHED)

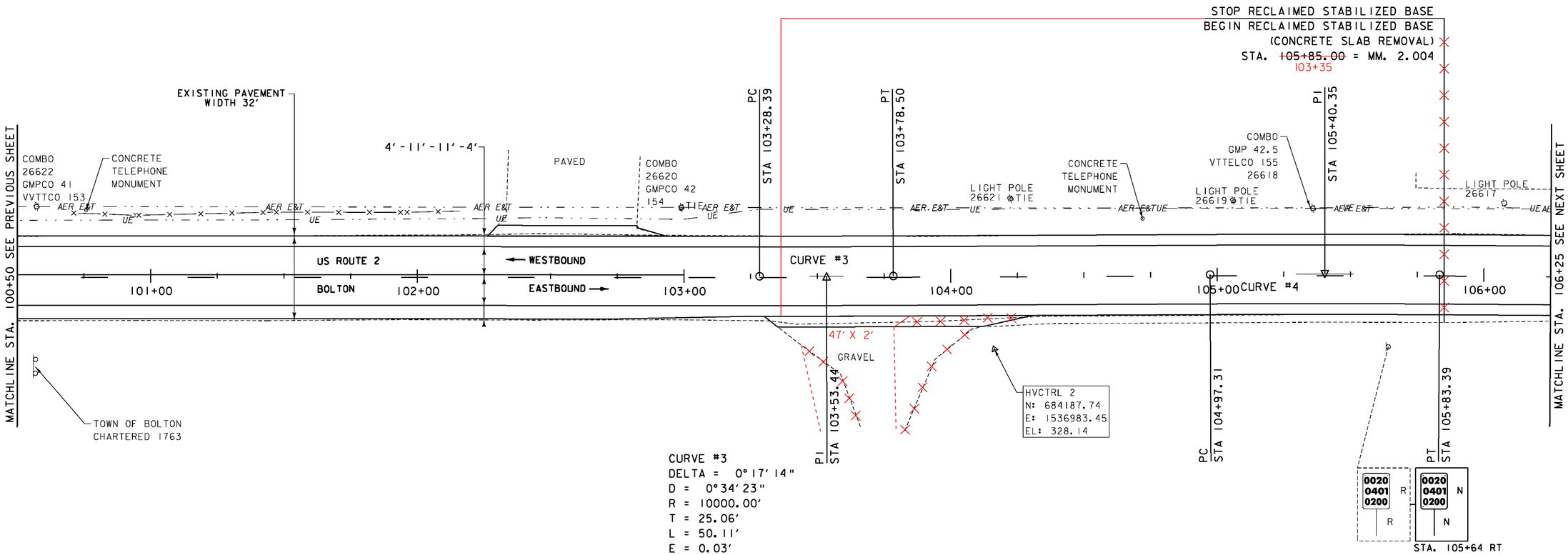
TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 100+50 - STA. 106+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 100+50 - STA. 103+00 (SOLID LT, DASHED RT)
STA. 103+00 - STA. 106+25 (DASHED)

REMOVING SIGNS
AS SHOWN - 1

CURVE #4
DELTA = 0°36'19"
D = 0°42'11"
R = 8150.00'
T = 43.04'
L = 86.08'
E = 0.11'
BANKING NORMAL CROWN
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

N
VT STATE PLANE GRID



CURVE #3
DELTA = 0°17'14"
D = 0°34'23"
R = 10000.00'
T = 25.06'
L = 50.11'
E = 0.03'
BANKING NORMAL CROWN
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 2

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_26.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 26 OF 217

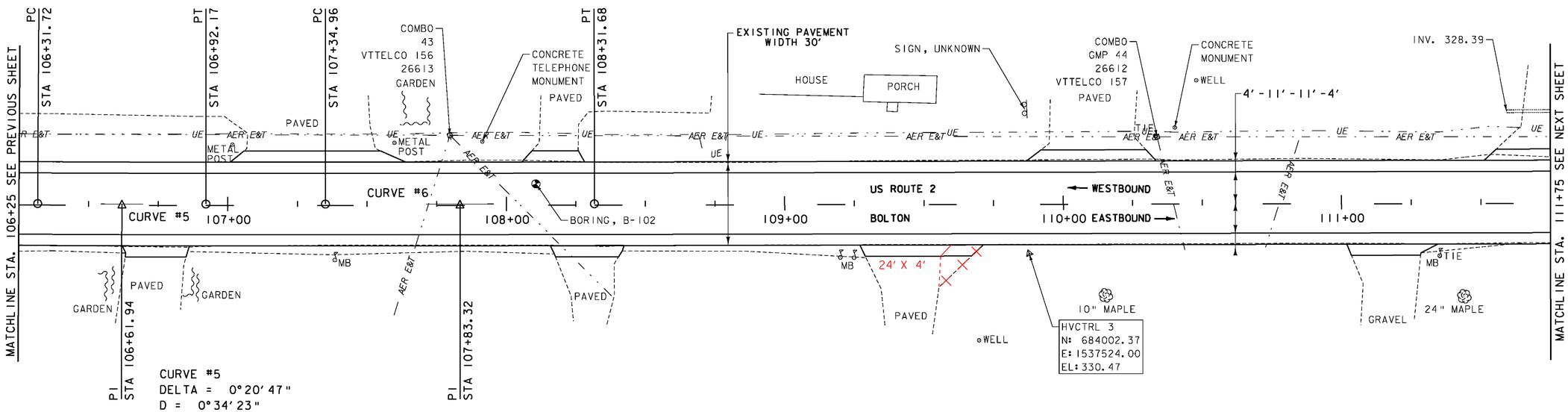
DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 106+25 - STA. 111+75 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 106+25 - STA. 111+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 106+25 - STA. 111+75 (DASHED)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 106+25 - STA. 111+75 (DASHED)

N
VT STATE PLANE GRID



CURVE #5
DELTA = 0°20'47"
D = 0°34'23"
R = 10000.00'
T = 30.22'
L = 60.44'
E = 0.05'
BANKING NORMAL CROWN
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

CURVE #6
DELTA = 0°06'39"
D = 0°06'53"
R = 50000.00'
T = 48.36'
L = 96.72'
E = 0.02'
BANKING NORMAL CROWN
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 3

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_27.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 27 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 111+75 - STA. 117+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 111+75 - STA. 117+25 (DASHED)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 111+75 - STA. 117+25 (SOLID LT & RT)

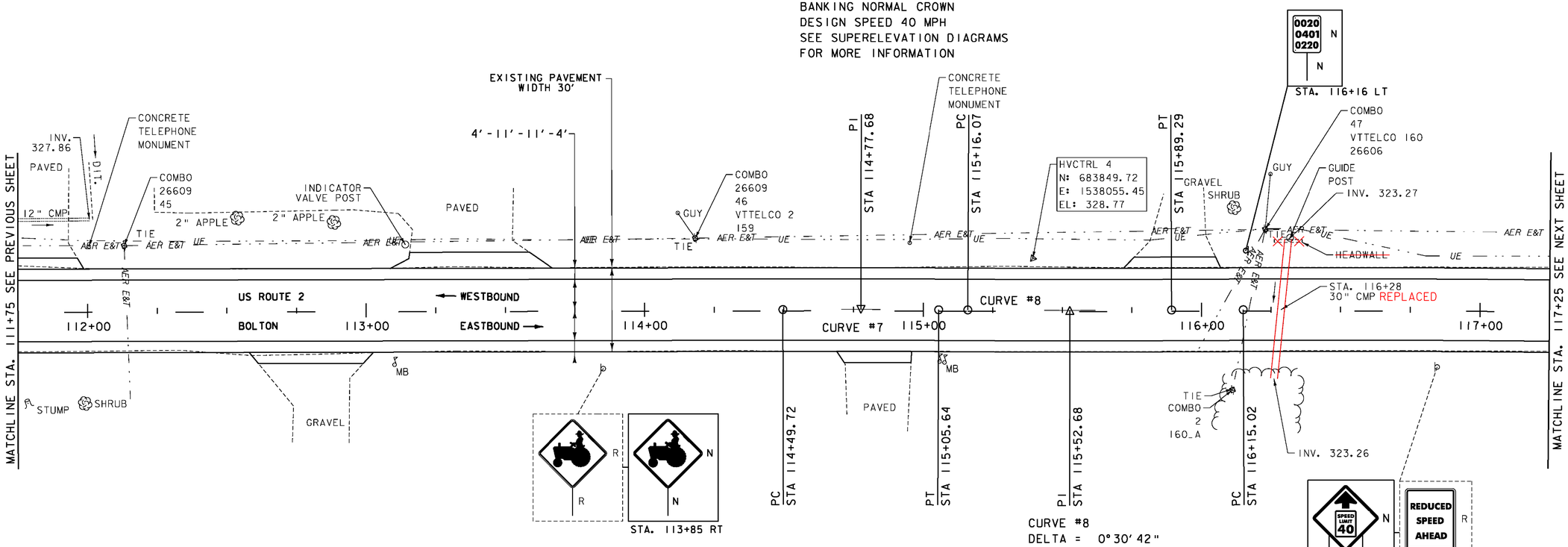
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 111+75 - STA. 117+25 (DASHED)

REMOVING SIGNS
AS SHOWN - 2

THINNING AND TRIMMING FOR SIGNS
STA. 116+84 RT

N
VT STATE PLANE GRID

CURVE #7
DELTA = 0°23'26"
D = 0°41'55"
R = 8200.00'
T = 27.96'
L = 55.91'
E = 0.05'
BANKING NORMAL CROWN
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION



CURVE #8
DELTA = 0°30'42"
D = 0°41'55"
R = 8200.00'
T = 36.61'
L = 73.21'
E = 0.08'
BANKING NORMAL CROWN
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 4

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_28.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 28 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 117+25 - STA. 123+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 117+25 - STA. 121+50 (DASHED)
STA. 121+50 - STA. 123+25 (DASHED LT, SOLID RT)

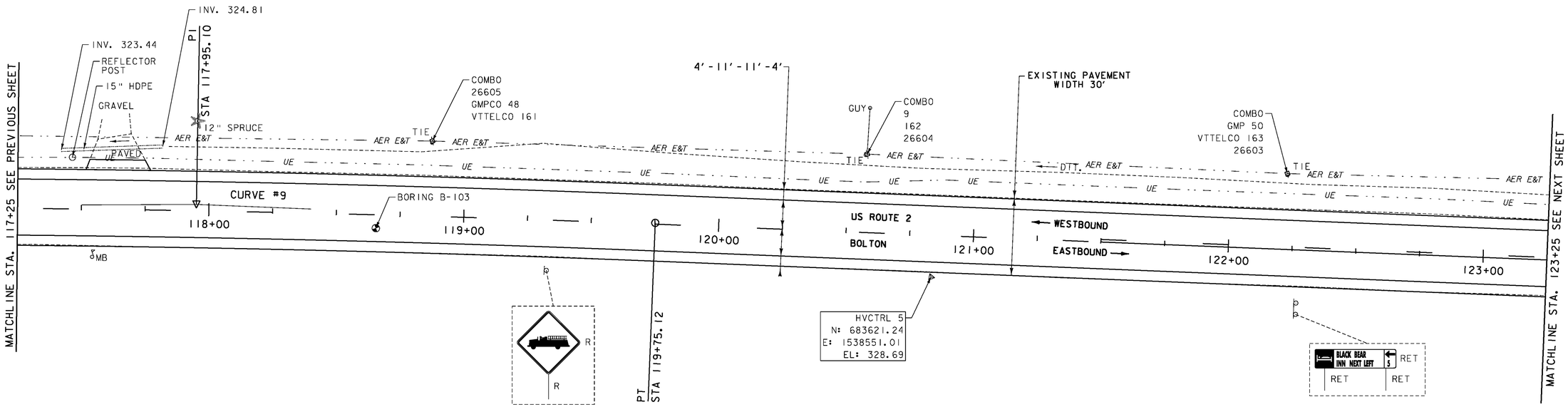
TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 117+25 - STA. 123+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 117+25 - STA. 121+50 (DASHED)
STA. 121+50 - STA. 123+25 (DASHED LT, SOLID RT)

REMOVING SIGNS
AS SHOWN - 1

CURVE #9
DELTA = 2°31'54"
D = 0°42'11"
R = 8150.00'
T = 180.08'
L = 360.10'
E = 1.99'
BANKING NORMAL CROWN
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

N
VT STATE PLANE GRID



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 5

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_29.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 29 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 123+25 - STA. 129+25 (SOLID LT & RT)

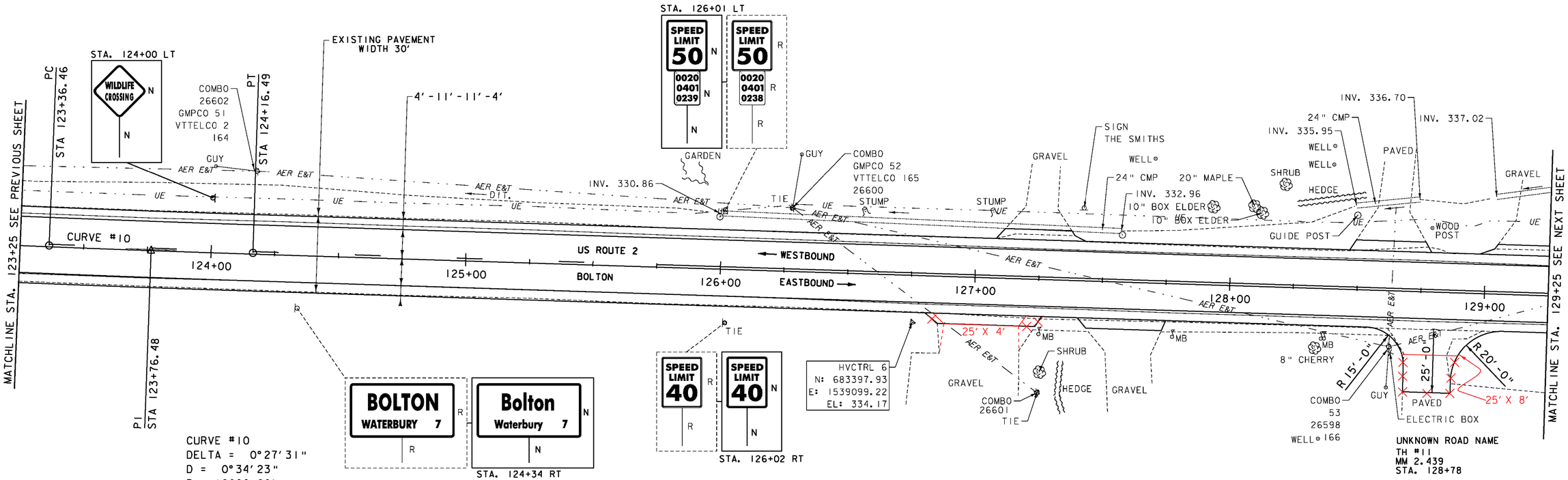
DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 123+25 - STA. 125+75 (DASHED LT, SOLID RT)
STA. 125+75 - STA. 129+25 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 123+25 - STA. 129+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 123+25 - STA. 125+75 (DASHED LT, SOLID RT)
STA. 125+75 - STA. 129+25 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 4

N
VT STATE PLANE GRID



CURVE #10
DELTA = 0°27'31"
D = 0°34'23"
R = 10000.00'
T = 40.01'
L = 80.03'
E = 0.08'
BANKING NORMAL CROWN
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 6

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_30.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 30 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 129+25 - STA. 134+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 129+25 - STA. 134+75 (SOLID LT & RT)

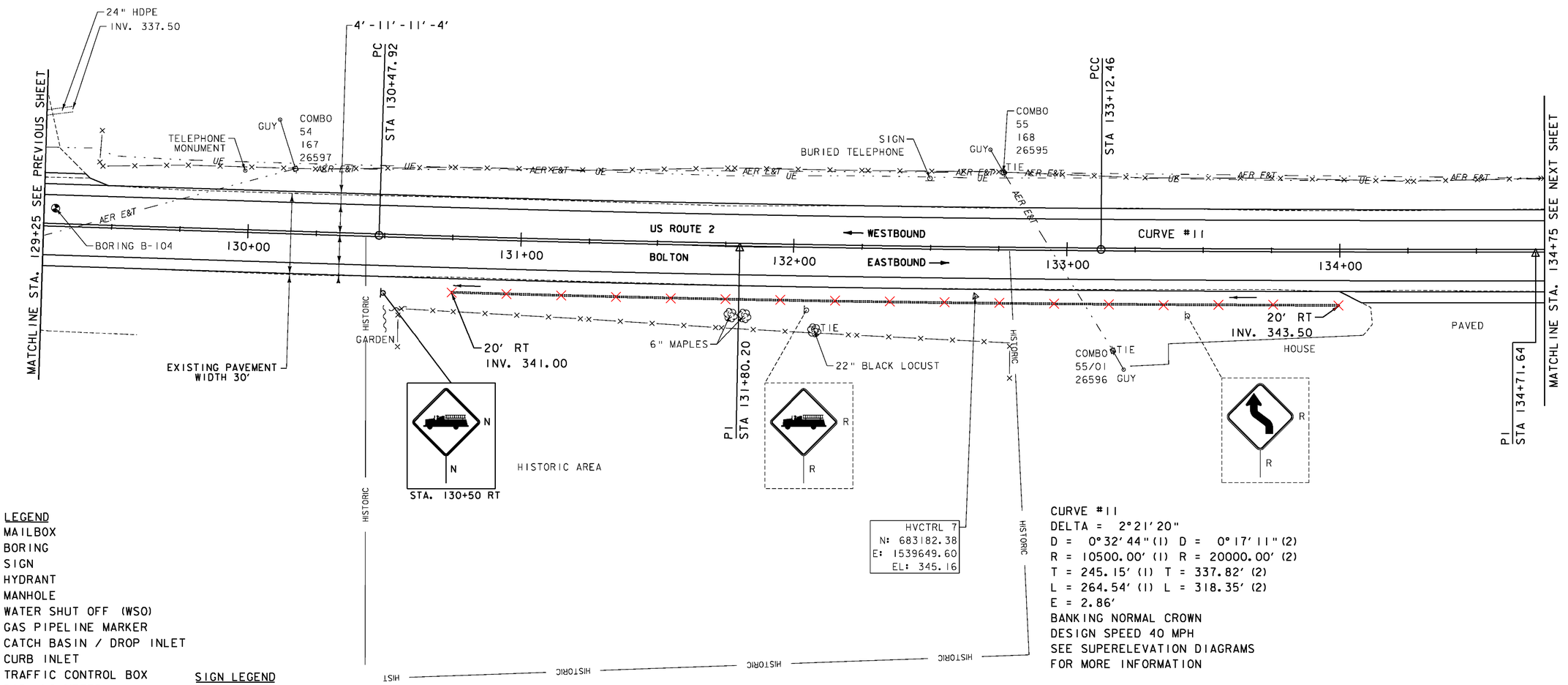
TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 129+25 - STA. 134+75 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 129+25 - STA. 134+75 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 2

6 INCH UNDERDRAIN PIPE
~~STA. 130+75 - STA. 134+00 RT~~

N
VT STATE PLANE GRID



CURVE #11
DELTA = 2°21'20"
D = 0°32'44"(1) D = 0°17'11"(2)
R = 10500.00' (1) R = 20000.00' (2)
T = 245.15' (1) T = 337.82' (2)
L = 264.54' (1) L = 318.35' (2)
E = 2.86'
BANKING NORMAL CROWN
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
---- = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 7

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_31.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 31 OF 217

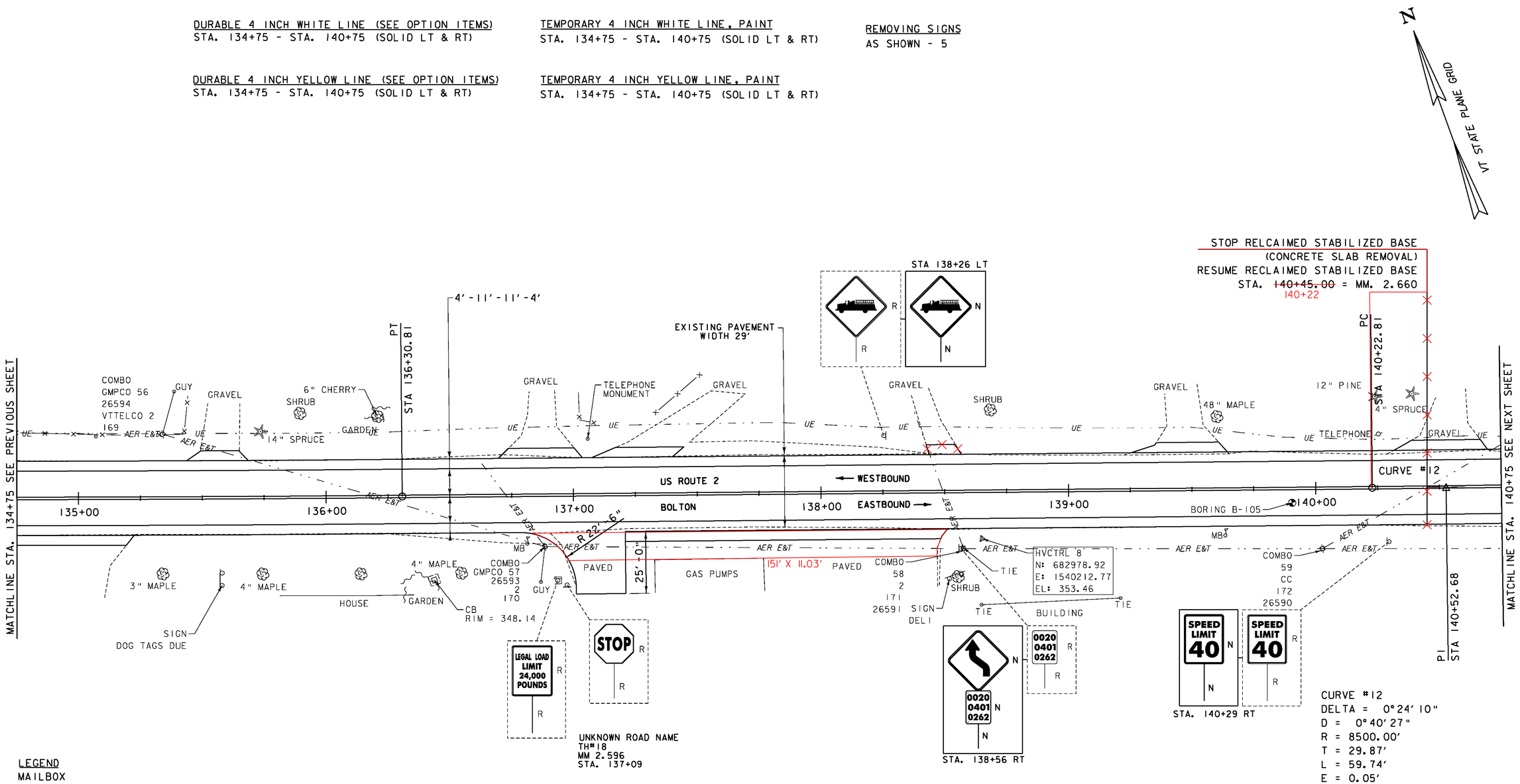
DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 134+75 - STA. 140+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 134+75 - STA. 140+75 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 134+75 - STA. 140+75 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 134+75 - STA. 140+75 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 5



CURVE #12
DELTA = 0°24'10"
D = 0°40'27"
R = 8500.00'
T = 29.87'
L = 59.74'
E = 0.05'
BANKING NORMAL CROWN
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 8

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_32.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 32 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 140+75 - STA. 146+50 (SOLID LT & RT)

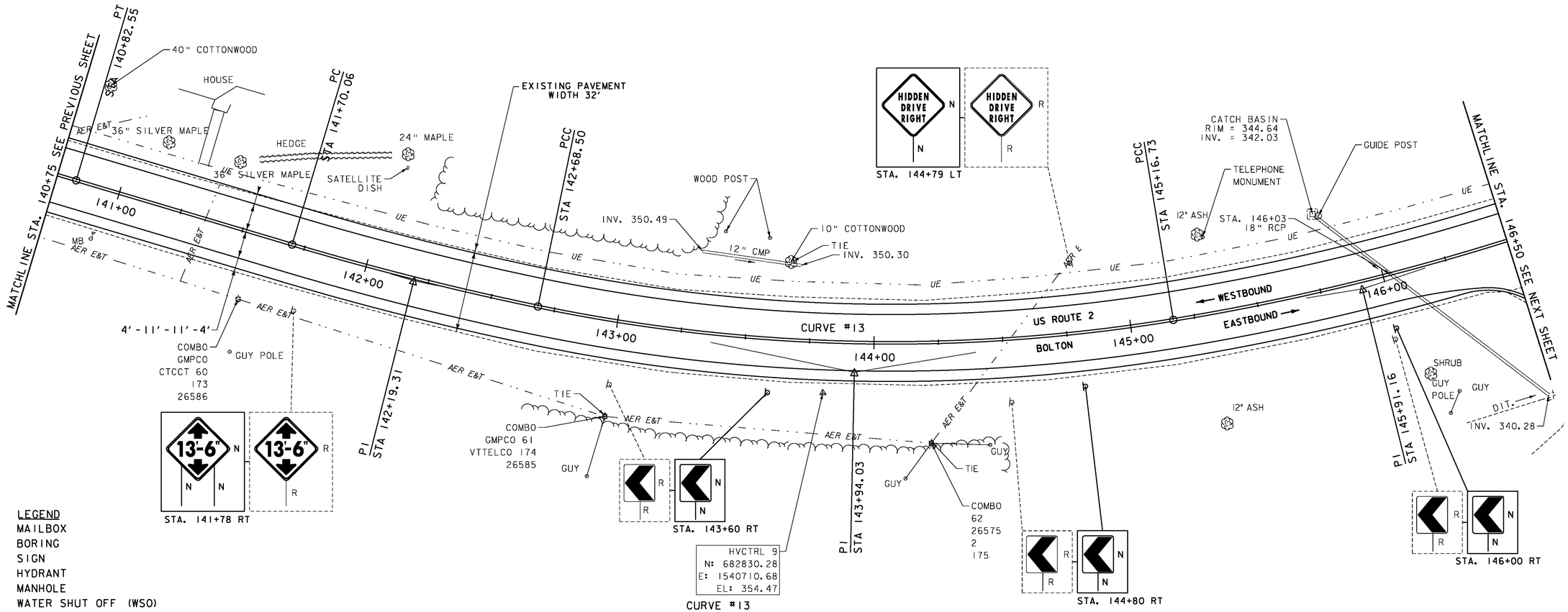
DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 140+75 - STA. 146+50 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 140+75 - STA. 146+50 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 140+75 - STA. 146+50 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 5

N
VT STATE PLANE GRID



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

CURVE #13
DELTA = 34°58'41"
D = 4°54'35"(1) D = 8°29'18"(2) D = 6°06'30"(3)
R = 1167.00' (1) R = 675.00' (2) R = 938.00' (3)
T = 257.38' (1) T = 252.51' (2)
L = 98.45' (1) L = 248.23' (2) L = 148.56' (3)
E = 28.05'
BANKING 0.054 FT/FT, 0.072 FT/FT, 0.061 FT/FT
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS FOR MORE INFORMATION

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 9

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_33.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 33 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 146+50 - STA. 152+25 (SOLID LT & RT)
(WITH EDGE LINE BREAKS AT TH#3 & TH#15)
STA. 146+73 (EDGE LINE AT TH#15)
STA. 150+80 (EDGE LINE AT TH#3)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 146+50 - STA. 152+25 (SOLID LT & RT)
(WITH CENTERLINE BREAKS AT TH#3 & TH#15)
STA. 146+73 (CENTERLINE AT TH#15)
STA. 150+80 (CENTERLINE AT TH#3)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 146+50 - STA. 152+25 (SOLID LT & RT)
(WITH EDGE LINE BREAKS AT TH#3 & TH#15)
STA. 146+73 (EDGE LINE AT TH#15)
STA. 150+80 (EDGE LINE AT TH#3)

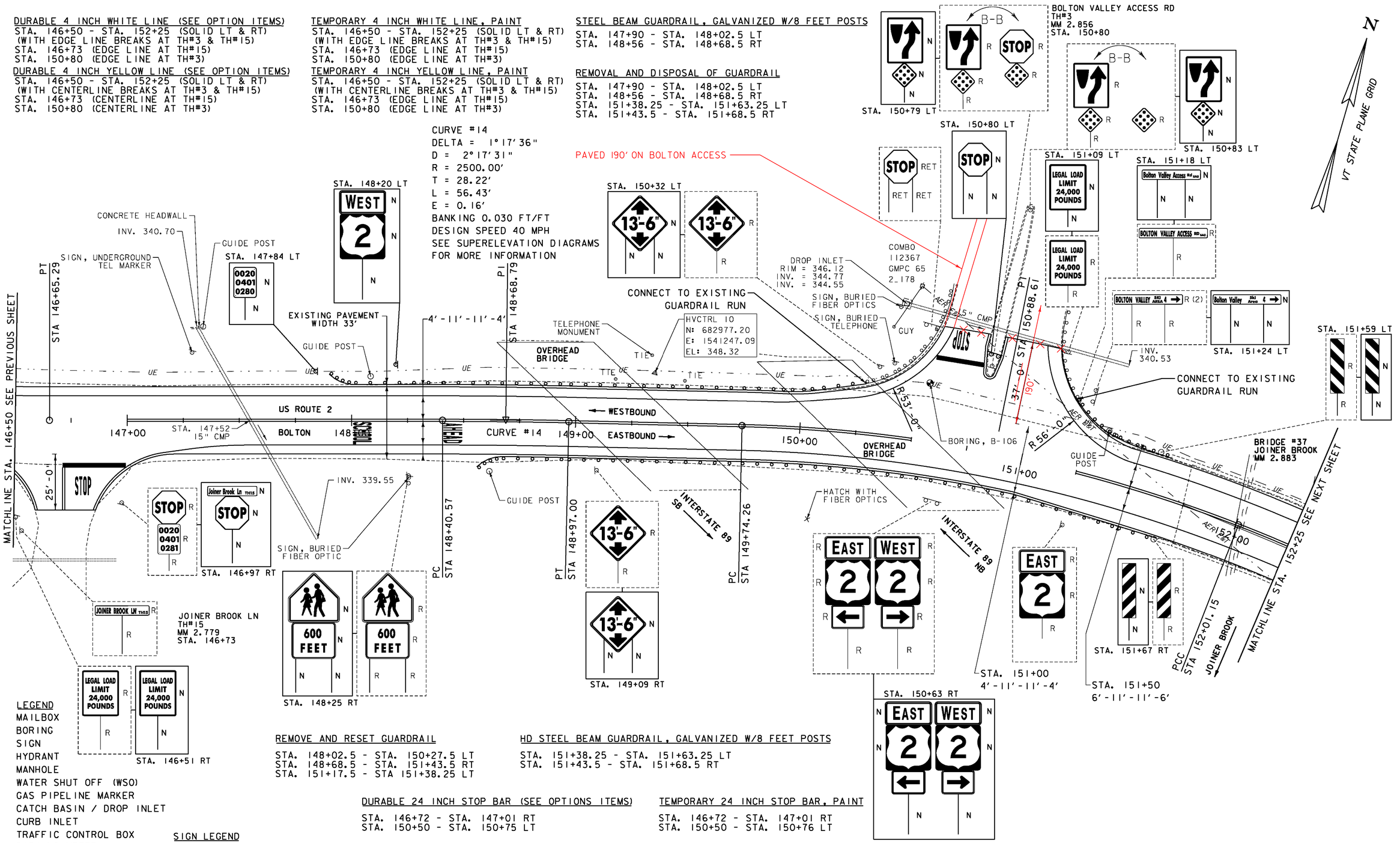
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 146+50 - STA. 152+25 (SOLID LT & RT)
(WITH CENTERLINE BREAKS AT TH#3 & TH#15)
STA. 146+73 (EDGE LINE AT TH#15)
STA. 150+80 (EDGE LINE AT TH#3)

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 147+90 - STA. 148+02.5 LT
STA. 148+56 - STA. 148+68.5 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 147+90 - STA. 148+02.5 LT
STA. 148+56 - STA. 148+68.5 RT
STA. 151+38.25 - STA. 151+63.25 LT
STA. 151+43.5 - STA. 151+68.5 RT

CURVE #14
DELTA = 1°17'36"
D = 2°17'31"
R = 2500.00'
T = 28.22'
L = 56.43'
E = 0.16'
BANKING 0.030 FT/FT
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

PAVED 190' ON BOLTON ACCESS



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

REMOVE AND RESET GUARDRAIL
STA. 148+02.5 - STA. 150+27.5 LT
STA. 148+68.5 - STA. 151+43.5 RT
STA. 151+17.5 - STA 151+38.25 LT

HD STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 151+38.25 - STA. 151+63.25 LT
STA. 151+43.5 - STA. 151+68.5 RT

DURABLE 24 INCH STOP BAR (SEE OPTIONS ITEMS)
STA. 146+72 - STA. 147+01 RT
STA. 150+50 - STA. 150+75 LT

TEMPORARY 24 INCH STOP BAR, PAINT
STA. 146+72 - STA. 147+01 RT
STA. 150+50 - STA. 150+76 LT

DURABLE LETTER OR SYMBOL (SEE OPTIONS ITEMS)
STA. 146+80 RT "STOP"
STA. 148+05 RT "SCHOOL"
STA. 148+45 RT "AHEAD"
STA. 150+65 LT "STOP"

TEMPORARY LETTER OR SYMBOL, PAINT
STA. 146+80 RT "STOP"
STA. 148+05 RT "SCHOOL"
STA. 148+45 RT "AHEAD"
STA. 150+65 LT "STOP"

REMOVING SIGNS
AS SHOWN - 29

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 10

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709 (I)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_34.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 34 OF 217

CURVE #15
DELTA = 47°16'38"
D = 8°48'53"(1) D = 7°38'22"(2)
R = 650.00' (1) R = 750.00' (2)
T = 299.64' (1) T = 320.06' (2)
L = 226.89' (1) L = 357.06' (2)
E = 65.74'
BANKING 0.073 FT/FT, 0.069 FT/FT
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

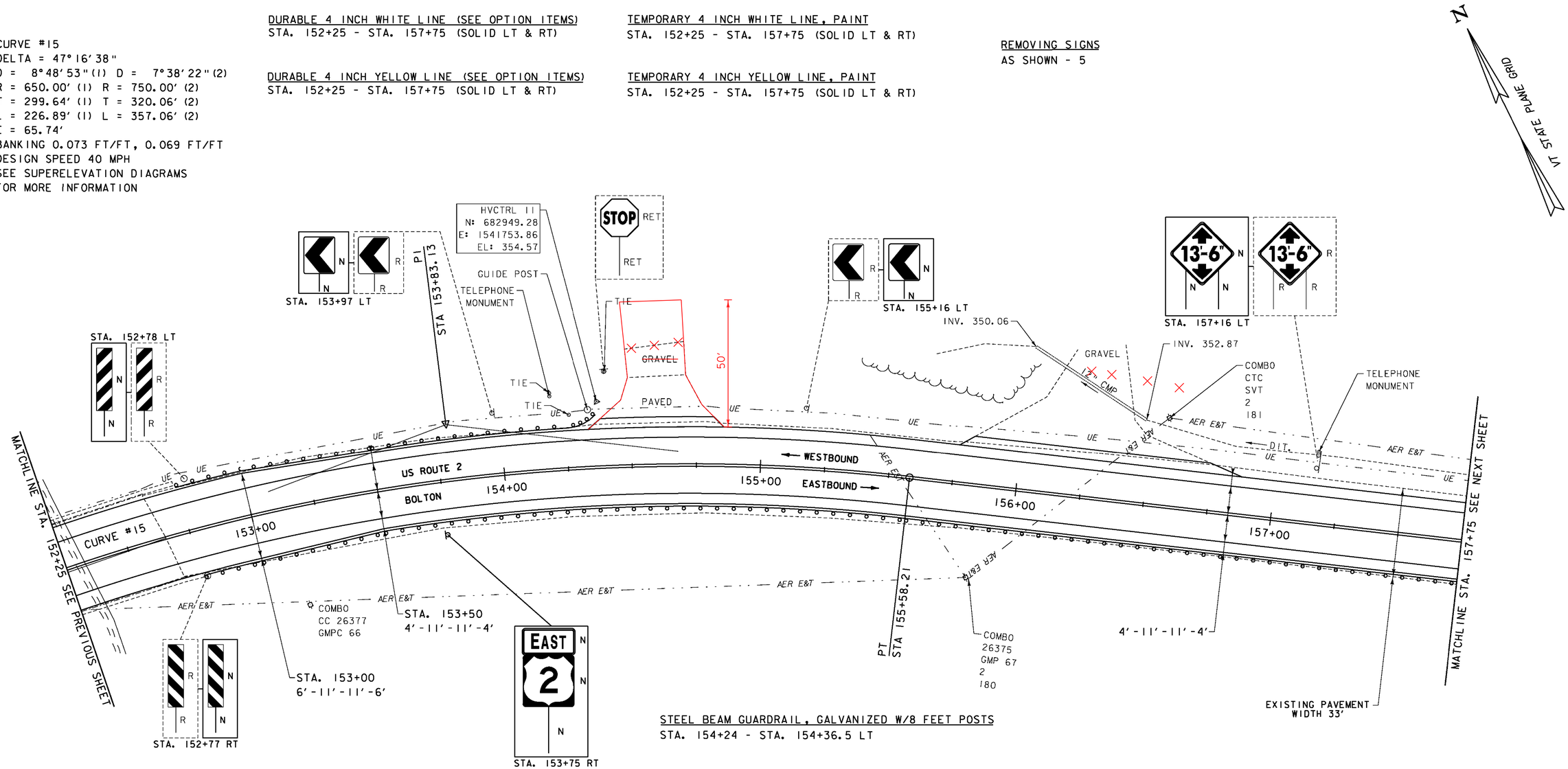
DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 152+25 - STA. 157+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 152+25 - STA. 157+75 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 152+25 - STA. 157+75 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 152+25 - STA. 157+75 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 5



STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 154+24 - STA. 154+36.5 LT

REMOVE AND RESET GUARDRAIL

STA. 152+99 - STA. 154+24 LT
STA. 153+01.25 - STA. 157+75 RT

HD STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS

STA. 152+74 - STA. 152+99 LT
STA. 152+76.25 - STA. 153+01.25 RT

REMOVAL AND DISPOSAL OF GUARDRAIL

STA. 152+74 - STA. 152+99 LT
STA. 154+24 - STA. 154+36.5 LT
~~STA. 152+76.25 - STA. 153+01.25 RT~~
STA. 153+01.25 - STA. 163+01.25 RT

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 11

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_35.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 35 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 157+75 - STA. 163+75 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 157+75 - STA. 163+75 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 4

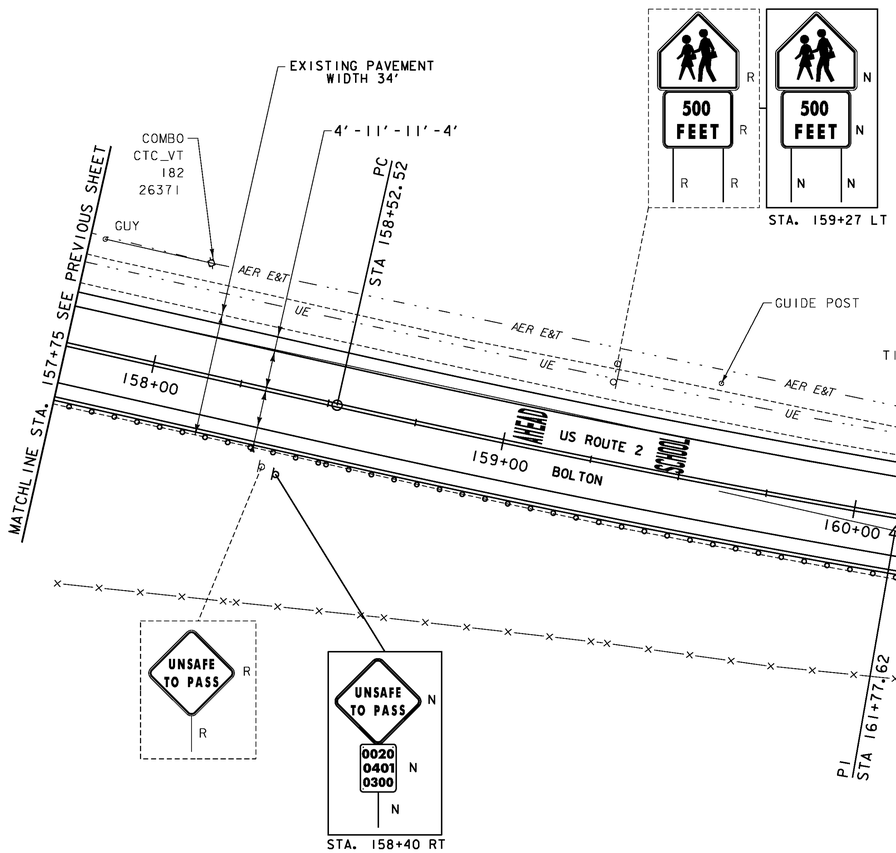
DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 157+75 - STA. 163+75 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 157+75 - STA. 163+75 (SOLID LT & RT)

REMOVE AND RESET GUARDRAIL
STA. 157+75 - STA. 163+75 RT

DURABLE LETTER OR SYMBOL (SEE OPTION ITEMS)
STA. 159+07 LT "AHEAD"
STA. 159+47 LT "SCHOOL"

TEMPORARY LETTER OR SYMBOL, PAINT
STA. 159+07 LT "AHEAD"
STA. 159+47 LT "SCHOOL"



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

CURVE #16
DELTA = 12°11'19"
D = 1°47'26"(1) D = 2°09'44"(2)
R = 3200.00' (1) R = 2650.00' (2)
T = 325.10' (1) T = 295.93' (2)
L = 319.72' (1) L = 298.98' (2)
E = 16.47'
BANKING 0.024 FT/FT, 0.029 FT/FT
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 12

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_36.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 36 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 163+75 - STA. 169+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 163+75 - STA. 167+50 (SOLID LT & RT)
STA. 167+50 - STA. 169+75 (SOLID LT, DASHED RT)

REMOVING SIGNS
AS SHOWN - 3

REMOVAL OF EXISTING FENCE
STA. 169+30 - STA. 169+75 RT

CHAIN-LINK FENCE, 6 FEET
STA. 169+30 - STA. 169+75 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 163+75 - STA. 169+75 (SOLID LT & RT)

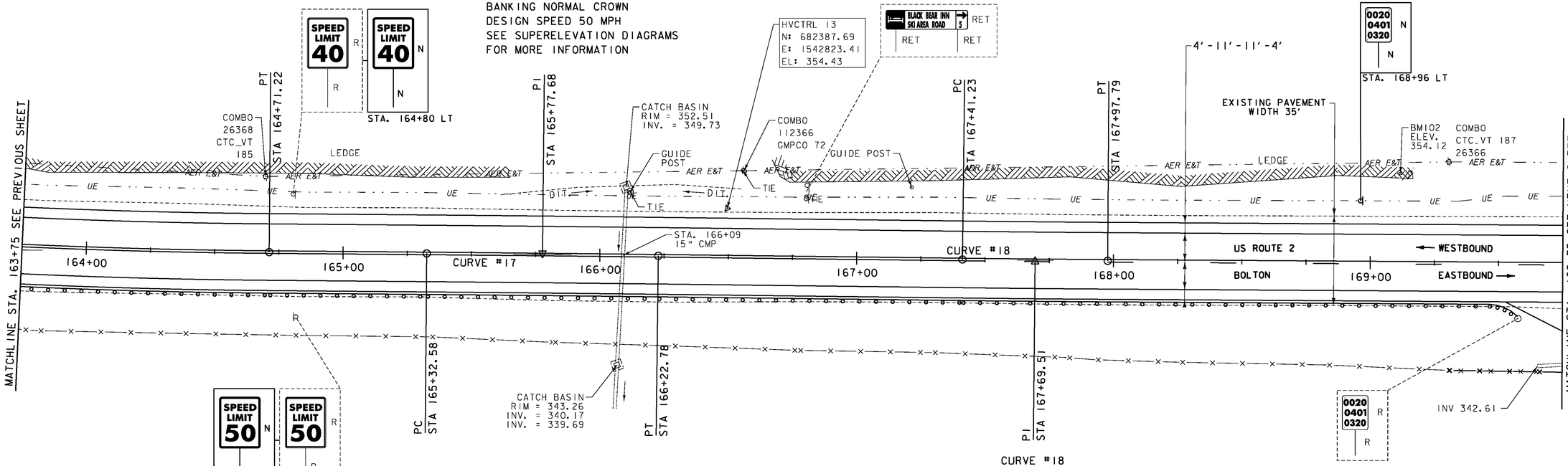
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 163+75 - STA. 167+50 (SOLID LT & RT)
STA. 167+50 - STA. 169+75 (SOLID LT, DASHED RT)

REMOVE AND RESET GUARDRAIL
STA. 163+75 - STA. 169+45 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 169+45 - STA. 169+57.5 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 169+45 - STA. 169+57.5 RT

CURVE #17
DELTA = 0° 12' 24"
D = 0° 13' 45"
R = 25000.00'
T = 45.10'
L = 90.19'
E = 0.04'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION



CURVE #18
DELTA = 0° 19' 27"
D = 0° 34' 23"
R = 10000.00'
T = 28.28'
L = 56.56'
E = 0.04'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
---- = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 13

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_37.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 37 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 169+75 - STA. 175+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 169+75 - STA. 175+25 (SOLID LT, DASHED RT)
STA. 175+25 - STA. 175+75 (DASHED)

REMOVING SIGNS
AS SHOWN - 3

6 INCH UNDERDRAIN PIPE
~~STA. 171+25~~ - STA. 174+02 RT
STA. 174+02 - ~~STA. 175+75 RT~~ STA. 176+00 RT
(STA. 171+02)

SPECIAL PROVISION (CORING CONCRETE)
STA. 174+02 RT
STA. 174+02 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 169+75 - STA. 175+75 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 169+75 - STA. 175+25 (SOLID LT, DASHED RT)
STA. 175+25 - STA. 175+75 (DASHED)

REMOVAL OF EXISTING FENCE
STA. 169+75 - STA. 169+90 RT

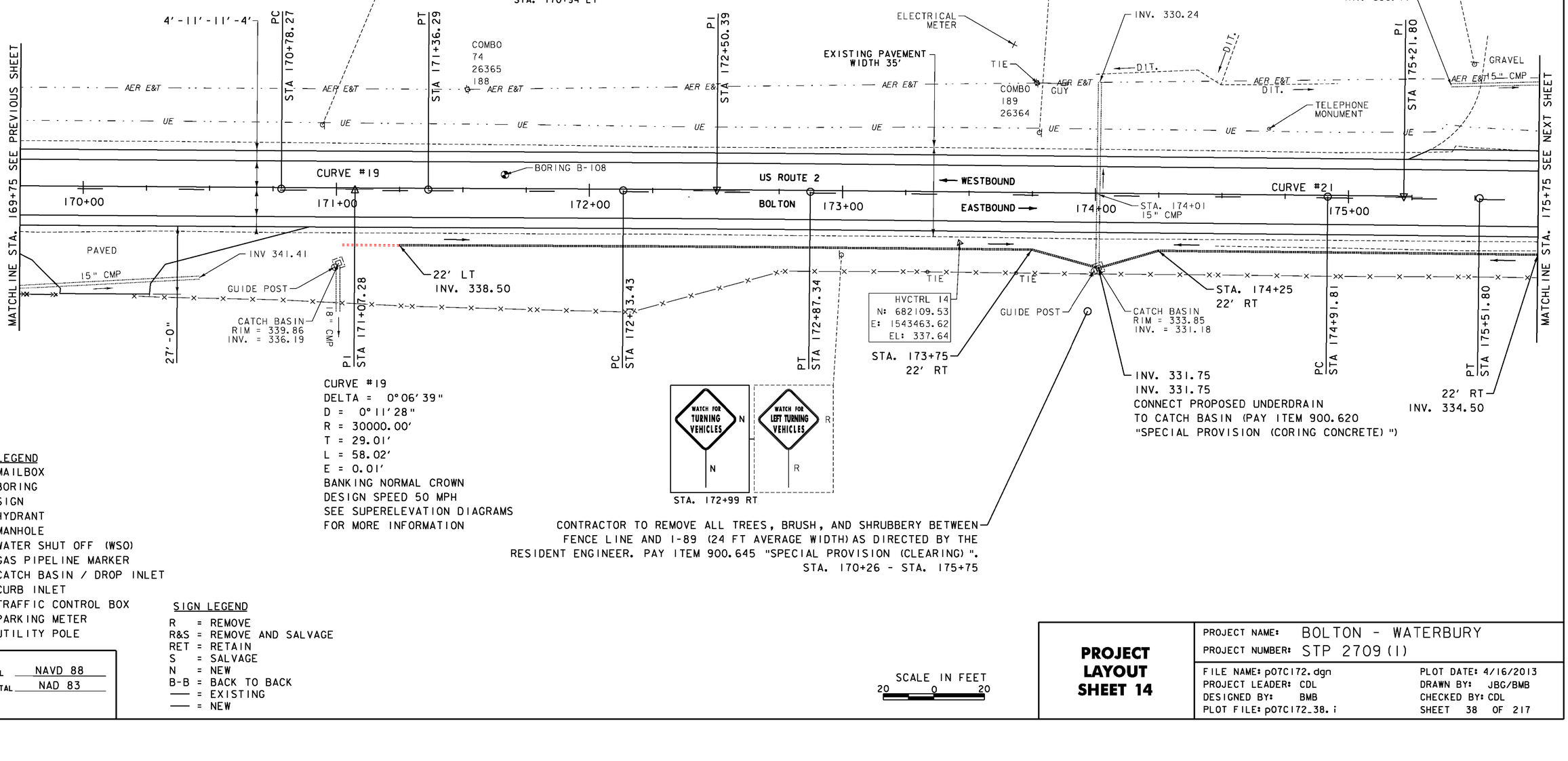
SPECIAL PROVISION (REHABILITATE EXISTING FENCE)
STA. 170+26 - STA. 175+75 RT

CHAIN-LINK FENCE, 6 FEET
STA. 169+75 - STA. 169+90 RT

BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 6 FEET
STA. 169+90 RT

CURVE #20
DELTA = 0°16'56"
D = 0°22'55"
R = 15000.00'
T = 36.96'
L = 73.92'
E = 0.05'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

CURVE #21
DELTA = 0°08'15"
D = 0°13'45"
R = 25000.00'
T = 30.00'
L = 59.99'
E = 0.02'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION



N
VT STATE PLANE GRID

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 14

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_38.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 38 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 175+75 - STA. 181+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 175+75 - STA. 181+25 (DASHED)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 175+75 - STA. 181+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 175+75 - STA. 181+25 (DASHED)

REMOVAL OF EXISTING FENCE
STA. 181+00 - STA. 181+25 RT

CHAIN-LINK FENCE, 6 FEET
STA. 181+00 - STA. 181+25 RT

SPECIAL PROVISION (REHABILITATE EXISTING FENCE)
STA. 175+75 - STA. 181+00 RT

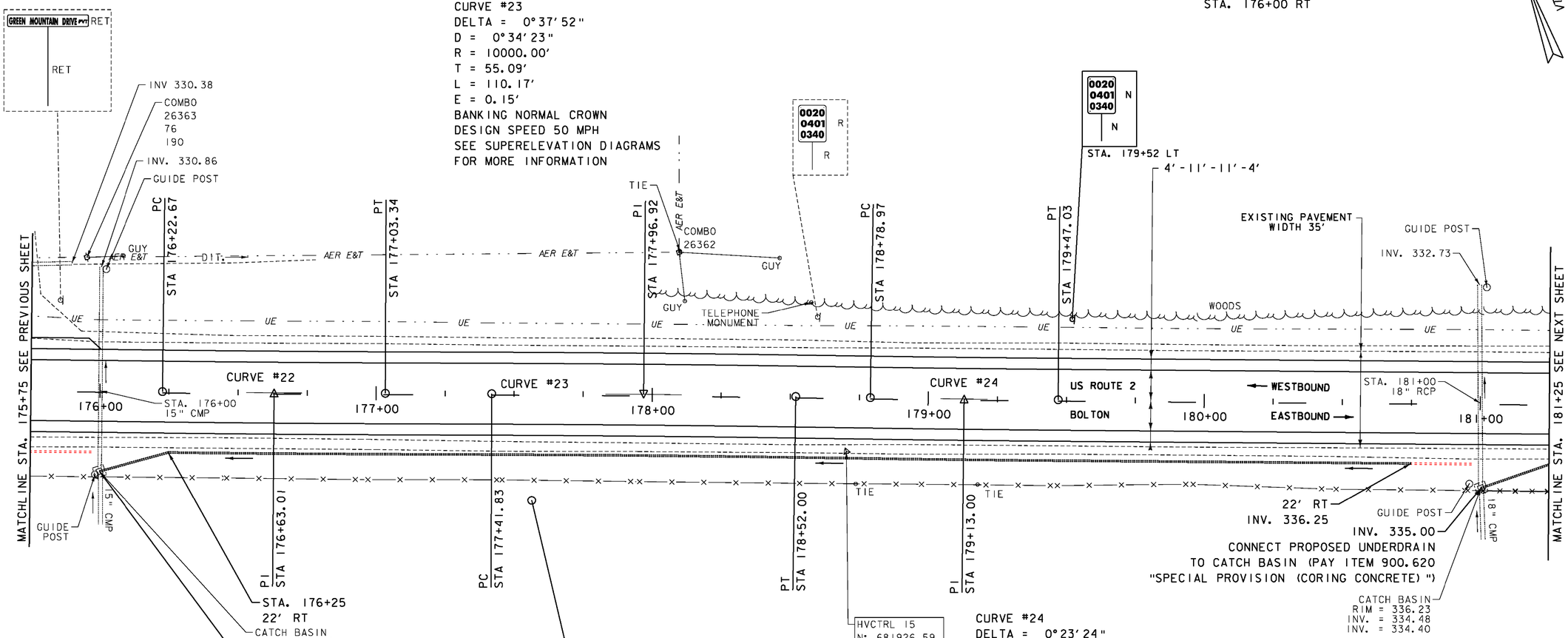
REMOVING SIGNS
AS SHOWN - 1

6 INCH UNDERDRAIN PIPE
STA. 176+00 - STA. ~~180+75 RT~~ 180+92 RT
STA. 181+00 - STA. 181+25 RT

SPECIAL PROVISION (CORING CONCRETE)
STA. 176+00 RT

N
VT STATE PLANE GRID

CURVE #23
DELTA = 0°37'52"
D = 0°34'23"
R = 10000.00'
T = 55.09'
L = 110.17'
E = 0.15'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION



CURVE #22
DELTA = 0°27'44"
D = 0°34'23"
R = 10000.00'
T = 40.33'
L = 80.66'
E = 0.08'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

CURVE #24
DELTA = 0°23'24"
D = 0°34'23"
R = 10000.00'
T = 34.03'
L = 68.07'
E = 0.06'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 15

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_39.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 39 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 181+25 - STA. 187+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 181+25 - STA. 187+25 (DASHED)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 181+25 - STA. 187+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 181+25 - STA. 187+25 (DASHED)

6 INCH UNDERDRAIN PIPE
STA. 181+25 - STA. ~~185+75 RT~~ 185+98 RT
STA. 186+01 - STA. 187+25 RT

SPECIAL PROVISION (CORING CONCRETE)
STA. 186+01 RT

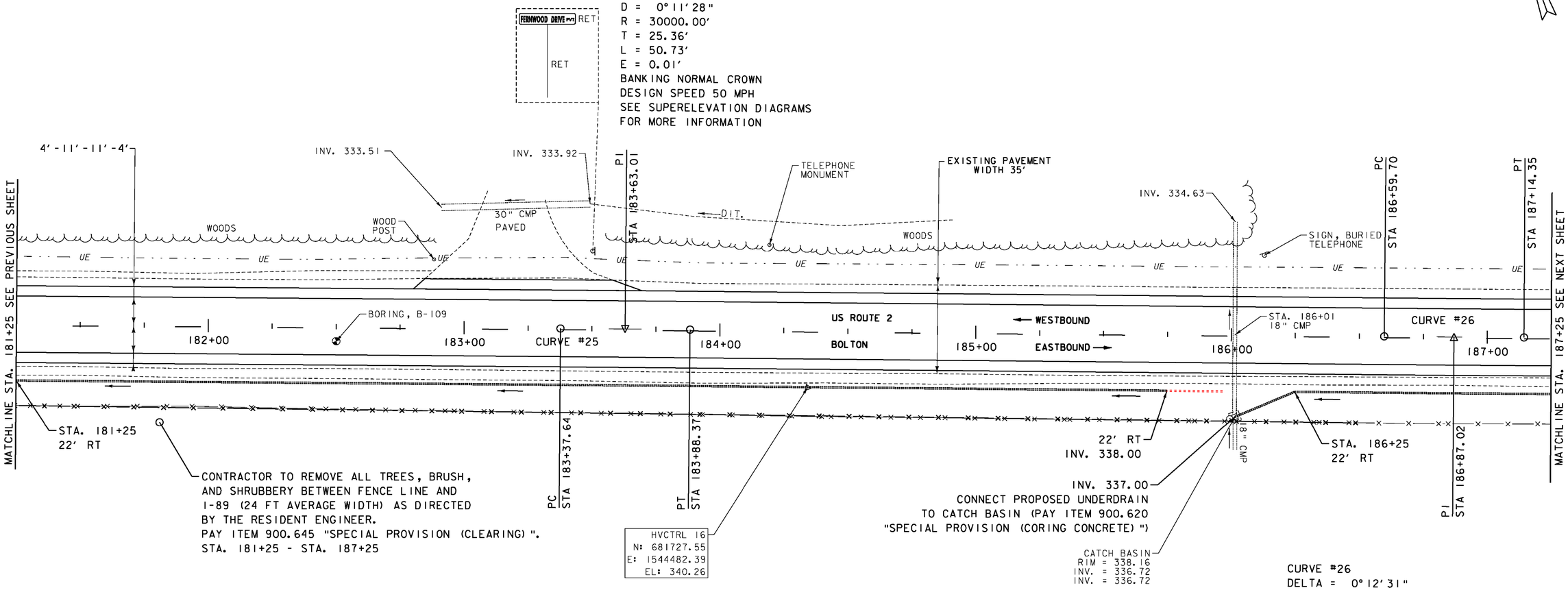
REMOVAL OF EXISTING FENCE
STA. 181+25 - STA. 186+50 RT

CHAIN-LINK FENCE, 6 FEET
STA. 181+25 - STA. 186+50 RT

SPECIAL PROVISION (REHABILITATE EXISTING FENCE)
STA. 186+50 - STA. 187+25 RT

N
VT STATE PLANE GRID

CURVE #25
DELTA = 0°05'49"
D = 0°11'28"
R = 30000.00'
T = 25.36'
L = 50.73'
E = 0.01'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION



CURVE #26
DELTA = 0°12'31"
D = 0°22'55"
R = 15000.00'
T = 27.32'
L = 54.65'
E = 0.02'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 16

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_40.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 40 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 187+25 - STA. 193+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 187+25 - STA. 193+25 (DASHED)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 187+25 - STA. 193+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 187+25 - STA. 193+25 (DASHED)

REMOVING SIGNS
AS SHOWN - 1

6 INCH UNDERDRAIN PIPE
STA. 187+25 - STA. ~~190+75 RT~~ 190+92 RT
STA. 191+00 - STA. 193+25 RT

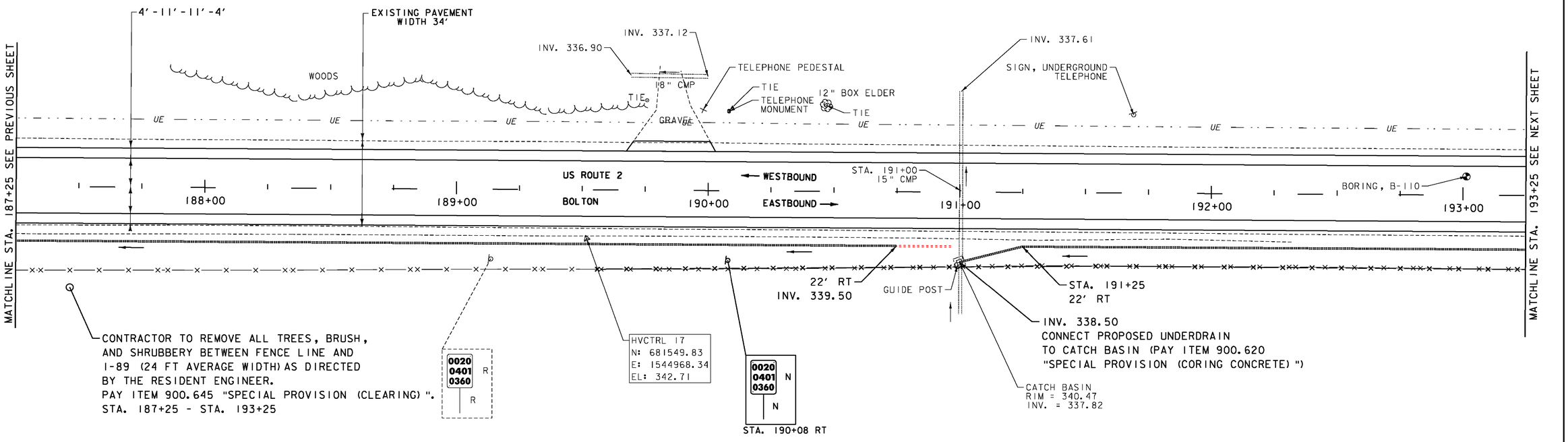
SPECIAL PROVISION (CORING CONCRETE)
STA. 191+00 RT

REMOVAL OF EXISTING FENCE
STA. 189+55 - STA. 193+25 RT

CHAIN-LINK FENCE, 6 FEET
STA. 189+55 - STA. 193+25 RT

SPECIAL PROVISION (REHABILITATE EXISTING FENCE)
STA. 187+25 - STA. 189+55 RT

N
VT STATE PLANE GRID



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 17

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_41.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 41 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 193+25 - STA. 199+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 193+25 - STA. 198+00 (DASHED)
STA. 198+00 - STA. 199+25 (DASHED LT, SOLID RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 193+25 - STA. 199+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 193+25 - STA. 198+00 (DASHED)
STA. 198+00 - STA. 199+25 (DASHED LT, SOLID RT)

REMOVING SIGNS
AS SHOWN - 1

6 INCH UNDERDRAIN PIPE
STA. 193+25 - STA. ~~195+75 RT~~ 195+86 RT
STA. 196+00 - STA. ~~199+25 RT~~ 199+46 RT

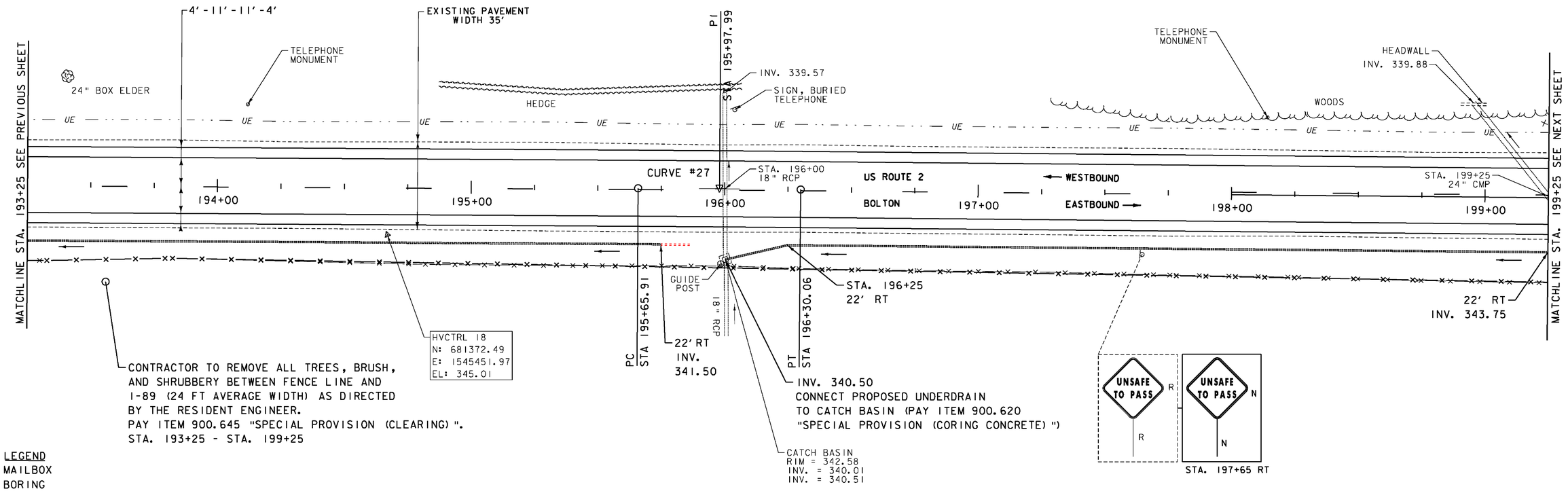
SPECIAL PROVISION (CORING CONCRETE)
STA. 196+00 RT

REMOVAL OF EXISTING FENCE
STA. 193+25 - STA. 199+25 RT

CHAIN-LINK FENCE, 6 FEET
STA. 193+25 - STA. 199+25 RT

N
VT STATE PLANE GRID

CURVE #27
DELTA = 0°11'02"
D = 0°17'11"
R = 20000.00'
T = 32.07'
L = 64.14'
E = 0.03'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 18

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_42.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 42 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 199+25 - STA. 204+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 199+25 - STA. 204+75 (DASHED LT, SOLID RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 199+25 - STA. 204+75 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 199+25 - STA. 204+75 (DASHED LT, SOLID RT)

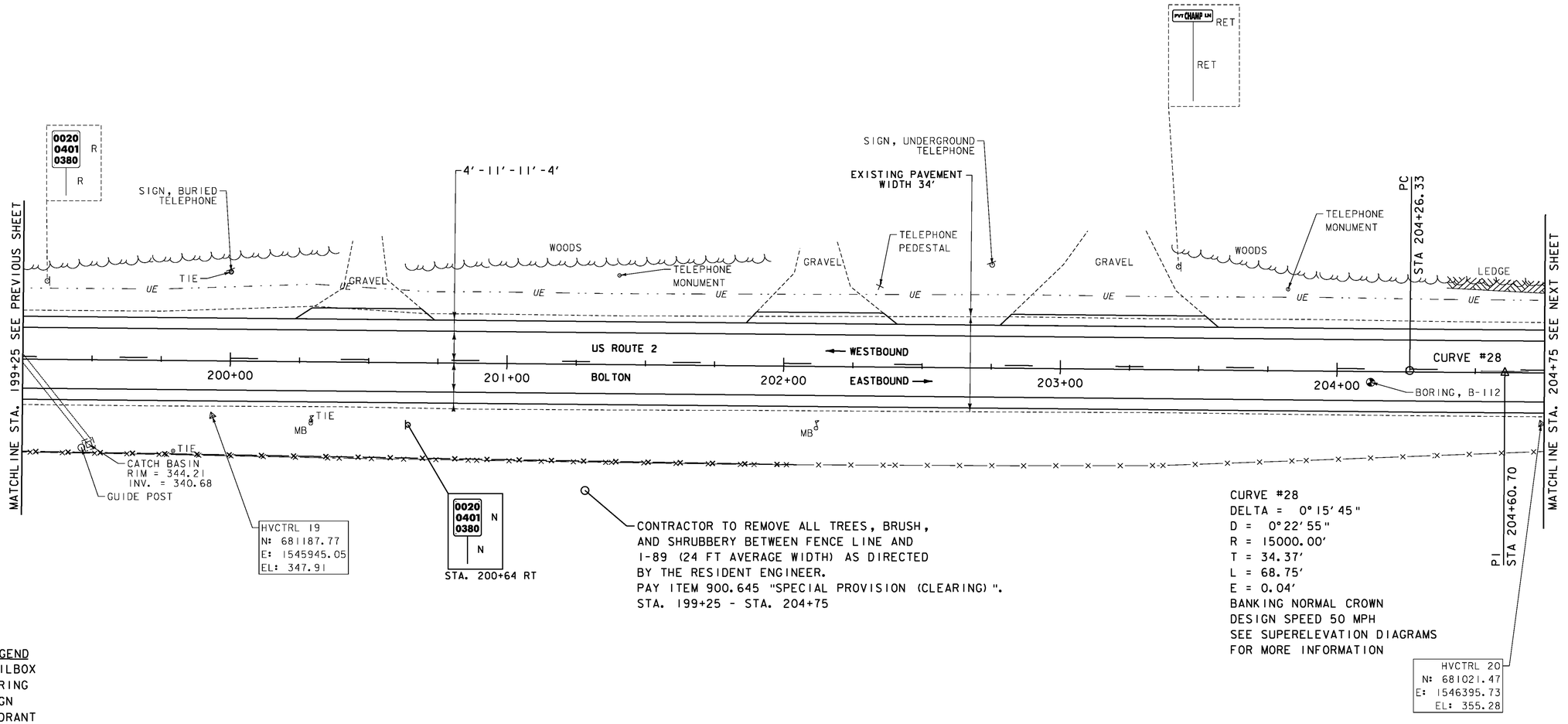
REMOVING SIGNS
AS SHOWN - 1

REMOVAL OF EXISTING FENCE
STA. 199+25 - STA. 202+05 RT

CHAIN-LINK FENCE, 6 FEET
STA. 199+25 - STA. 202+05 RT

SPECIAL PROVISION (REHABILITATE EXISTING FENCE)
STA. 202+05 - STA. 204+75 RT

N
VT STATE PLANE GRID



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- ---- = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 19

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_43.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 43 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 204+75 - STA. 210+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 204+75 - STA. 207+00 (DASHED LT, SOLID RT)
STA. 207+00 - STA. 210+75 (SOLID LT, DASHED RT)

REMOVAL OF EXISTING FENCE
STA. 204+75 - STA. 205+55 RT

CHAIN-LINK FENCE, 6 FEET
STA. 204+75 - STA. 205+55 RT

SPECIAL PROVISION (REHABILITATE EXISTING FENCE)
STA. 205+55 - STA. 210+75 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 204+75 - STA. 210+75 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 204+75 - STA. 207+00 (DASHED LT, SOLID RT)
STA. 207+00 - STA. 210+75 (SOLID LT, DASHED RT)

REMOVING SIGNS
AS SHOWN - 1

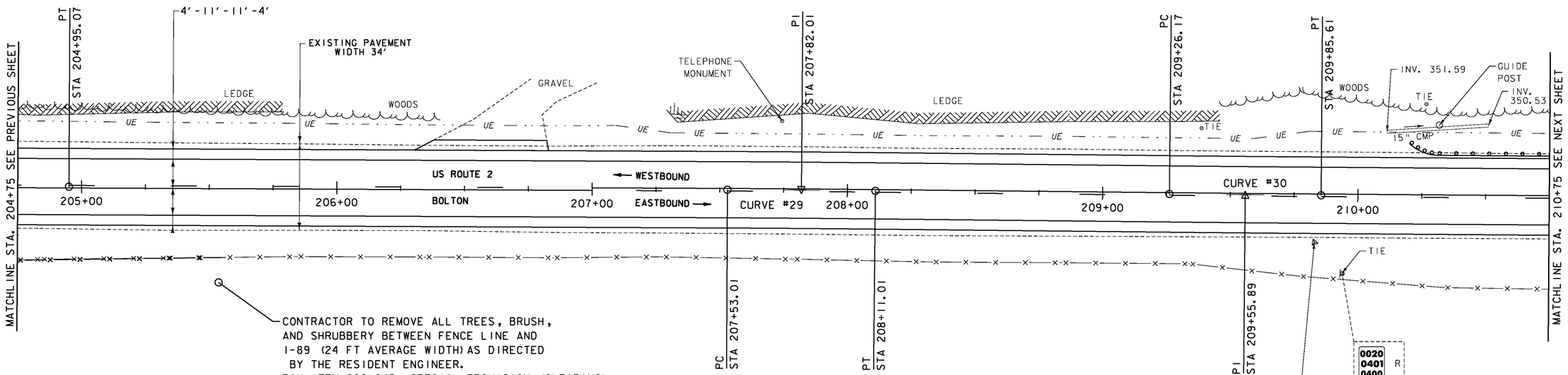
REMOVE AND RESET GUARDRAIL
STA. 210+32.5 - STA. 210+75 LT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 210+20 - STA. 210+32.5 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 210+20 - STA. 210+32.5 LT

CURVE #29
DELTA = 0°19'56"
D = 0°34'23"
R = 10000.00'
T = 29.00'
L = 58.00'
E = 0.04'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

N
VT STATE PLANE GRID



CURVE #30
DELTA = 0°10'13"
D = 0°17'11"
R = 20000.00'
T = 29.72'
L = 59.44'
E = 0.02'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 20

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_44.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 44 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 210+75 - STA. 216+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 210+75 - STA. 216+00 (SOLID LT, DASHED RT)
STA. 216+00 - STA. 216+75 (DASHED)

6 INCH UNDERDRAIN PIPE
STA. 211+50 - STA. 215+98 RT
STA. 216+21 ~~STA. 216+25~~ - STA. 216+75 RT

SPECIAL PROVISION (CORING CONCRETE)
STA. 215+98 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 210+75 - STA. 216+75 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 210+75 - STA. 216+00 (SOLID LT, DASHED RT)
STA. 216+00 - STA. 216+75 (DASHED)

REMOVAL OF EXISTING FENCE
STA. 212+70 - STA. 215+50 RT

CHAIN-LINK FENCE, 6 FEET
STA. 212+70 - STA. 215+50 RT

SPECIAL PROVISION (REHABILITATE EXISTING FENCE)
STA. 210+75 - STA. 212+70 RT
STA. 215+50 - STA. 216+75 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 215+82.5 - STA. 216+07.5 LT

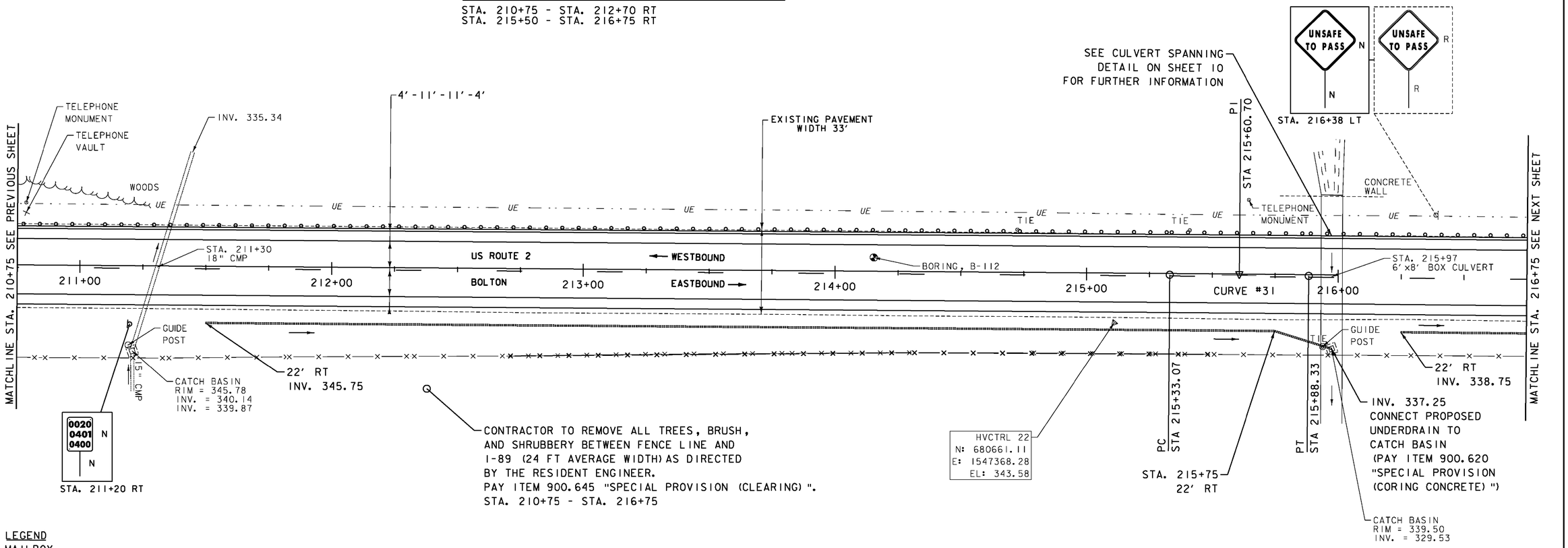
REMOVE AND RESET GUARDRAIL
STA. 210+75 - STA. 215+82.5 LT
STA. 216+07.5 - STA. 216+75 LT

STEEL BEAM GUARDRAIL, GALVANIZED/NESTED W/8 FEET POSTS
STA. 215+82.5 - STA. 216+07.5 LT

REMOVING SIGNS
AS SHOWN - 1

CURVE #31
DELTA = 0°07'36"
D = 0°13'45"
R = 25000.00'
T = 27.63'
L = 55.26'
E = 0.02'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

N
VT STATE PLANE GRID



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 21

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_45.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 45 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 216+75 - STA. 222+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 216+75 - STA. 222+75 (DASHED)

6 INCH UNDERDRAIN PIPE
STA. 216+75 - STA. 217+99 RT
STA. 217+99 - ~~STA. 220+75 RT~~ 220+77 RT
STA. 221+00 - STA. 222+75 RT

SPECIAL PROVISION (CORING CONCRETE)
STA. 217+99 RT
STA. 217+99 RT
STA. 221+00 RT

SPECIAL PROVISION (REHABILITATE EXISTING FENCE)
STA. 216+75 - STA. 222+75 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 216+75 - STA. 222+75 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 216+75 - STA. 222+75 (DASHED)

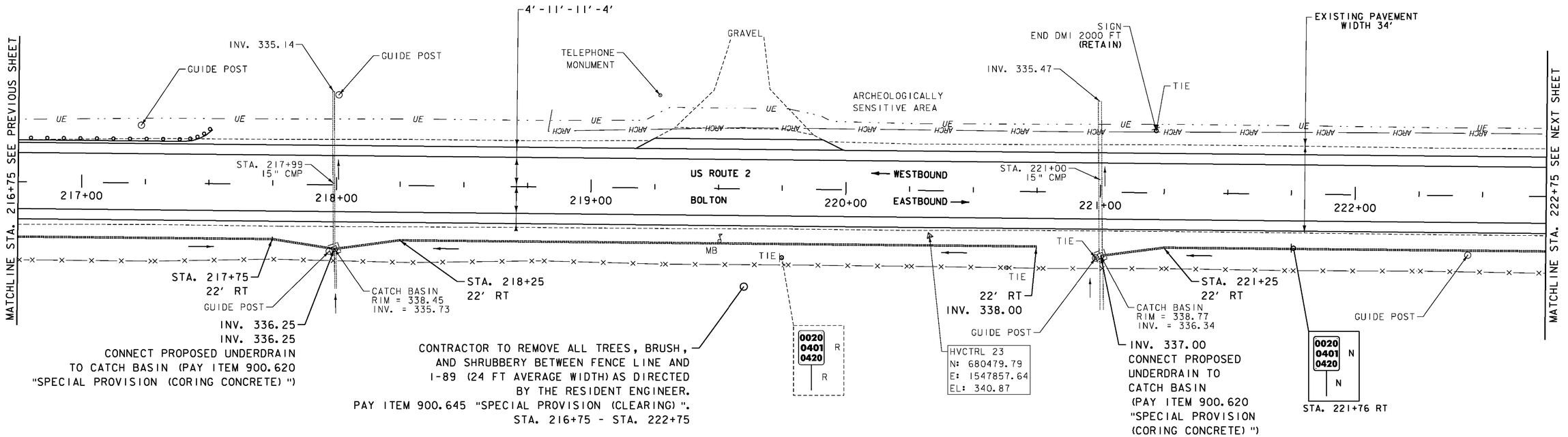
REMOVING SIGNS
AS SHOWN - 1

RELOCATE MAILBOX, SINGLE SUPPORT
STA. 219+51 RT

REMOVE AND RESET GUARDRAIL
STA. 216+75 - STA. 217+20 LT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 217+20 - STA. 217+51.25 LT

N
VT STATE PLANE GRID



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 22

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_46.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 46 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 222+75 - STA. 228+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 222+75 - STA. 228+50 (DASHED)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 222+75 - STA. 228+50 (SOLID LT & RT)

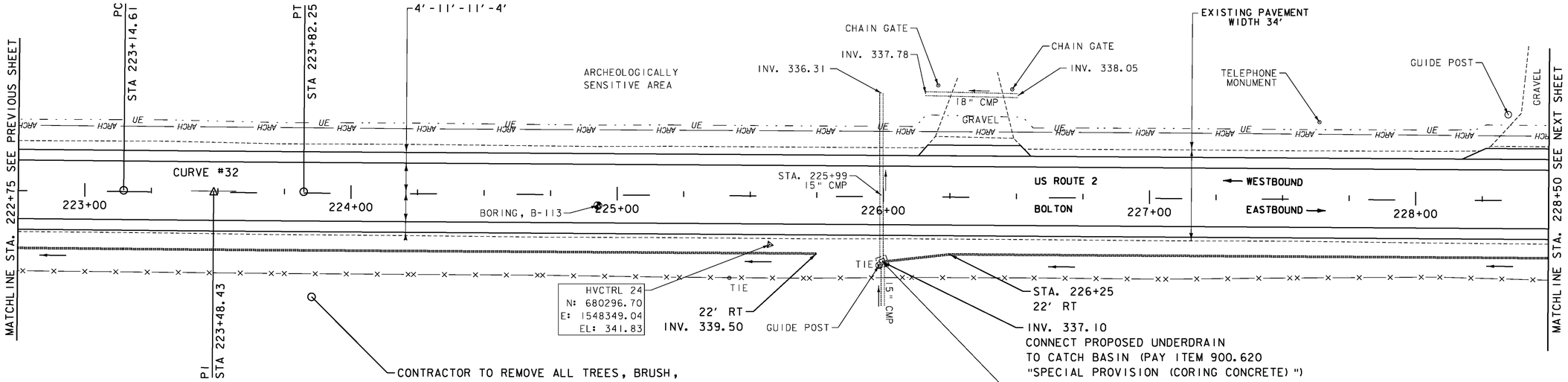
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 222+75 - STA. 228+50 (DASHED)

6 INCH UNDERDRAIN PIPE
STA. 222+75 - STA. 225+75 RT
STA. 226+00 - STA. 228+50 RT

SPECIAL PROVISION (CORING CONCRETE)
STA. 226+00 RT

SPECIAL PROVISION (REHABILITATE EXISTING FENCE)
STA. 222+75 - STA. 228+50 RT

N
VT STATE PLANE GRID



CURVE #32
DELTA = 0°11'38"
D = 0°17'11"
R = 20000.00'
T = 33.82'
L = 67.63'
E = 0.03'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 23

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_47.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 47 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 228+50 - STA. 234+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 228+50 - STA. 234+50 (DASHED)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 228+50 - STA. 234+50 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 228+50 - STA. 234+50 (DASHED)

REMOVING SIGNS
AS SHOWN - 1

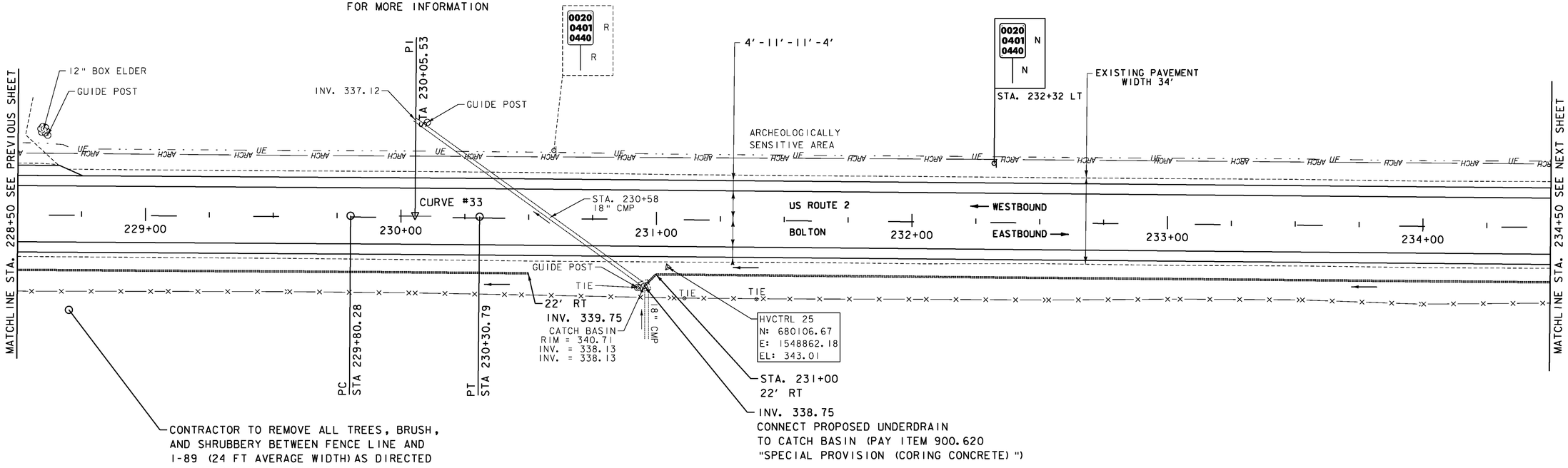
6 INCH UNDERDRAIN PIPE
STA. 228+50 - STA. 230+50 RT
STA. 230+95 - STA. 234+50 RT

SPECIAL PROVISION (CORING CONCRETE)
STA. 230+95 RT

SPECIAL PROVISION (REHABILITATE EXISTING FENCE)
STA. 228+50 - STA. 234+50 RT

N
VT STATE PLANE GRID

CURVE #33
DELTA = 0°08'41"
D = 0°17'11"
R = 20000.00'
T = 25.26'
L = 50.51'
E = 0.02'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION



CONTRACTOR TO REMOVE ALL TREES, BRUSH, AND SHRUBBERY BETWEEN FENCE LINE AND I-89 (24 FT AVERAGE WIDTH) AS DIRECTED BY THE RESIDENT ENGINEER.
PAY ITEM 900.645 "SPECIAL PROVISION (CLEARING)".
STA. 228+50 - STA. 234+50

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 24

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_48.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 48 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 234+50 - STA. 240+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 234+50 - STA. 240+50 (DASHED)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 234+50 - STA. 240+50 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 234+50 - STA. 240+50 (DASHED)

REMOVING SIGNS
AS SHOWN - 3

6 INCH UNDERDRAIN PIPE
STA. 234+50 - STA. ~~235+50 RT~~ 235+53 RT
STA. 236+00 - STA. 240+50 RT

SPECIAL PROVISION (CORING CONCRETE)
STA. 236+00 RT

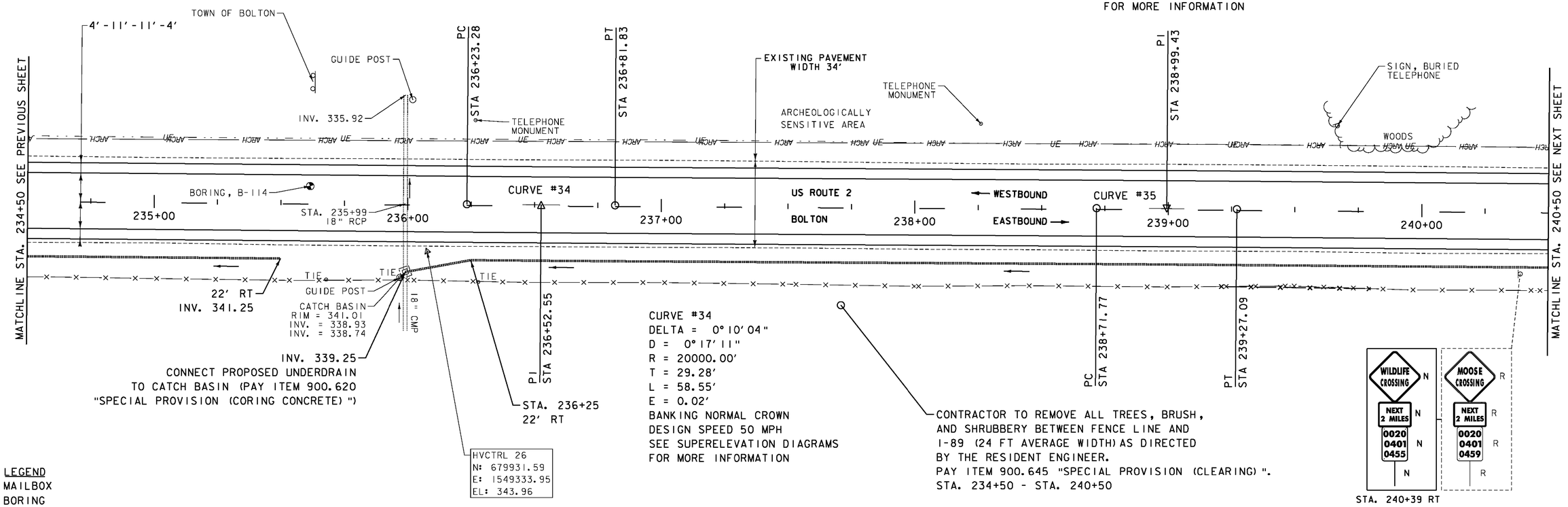
REMOVAL OF EXISTING FENCE
STA. 239+20 - STA. 239+80 RT

CHAIN-LINK FENCE, 6 FEET
STA. 239+20 - STA. 239+80 RT

SPECIAL PROVISION (REHABILITATE EXISTING FENCE)
STA. 234+50 - STA. 239+20 RT
STA. 239+80 - STA. 240+50 RT

CURVE #35
DELTA = 0°07'36"
D = 0°13'45"
R = 25000.00'
T = 27.66'
L = 55.32'
E = 0.02'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

N
VT STATE PLANE GRID



CURVE #34
DELTA = 0°10'04"
D = 0°17'11"
R = 20000.00'
T = 29.28'
L = 58.55'
E = 0.02'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
---- = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 25

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_49.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 49 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 240+50 - STA. 246+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 240+50 - STA. 245+50 (DASHED)
STA. 245+50 - STA. 246+25 (DASHED LT, SOLID RT)

RELOCATE MAILBOX, SINGLE SUPPORT
STA. 243+03 RT
STA. 246+13 RT

SPECIAL PROVISION (REHABILITATE EXISTING FENCE)
STA. 240+50 - STA. 246+25 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 240+50 - STA. 246+25 (SOLID LT & RT)

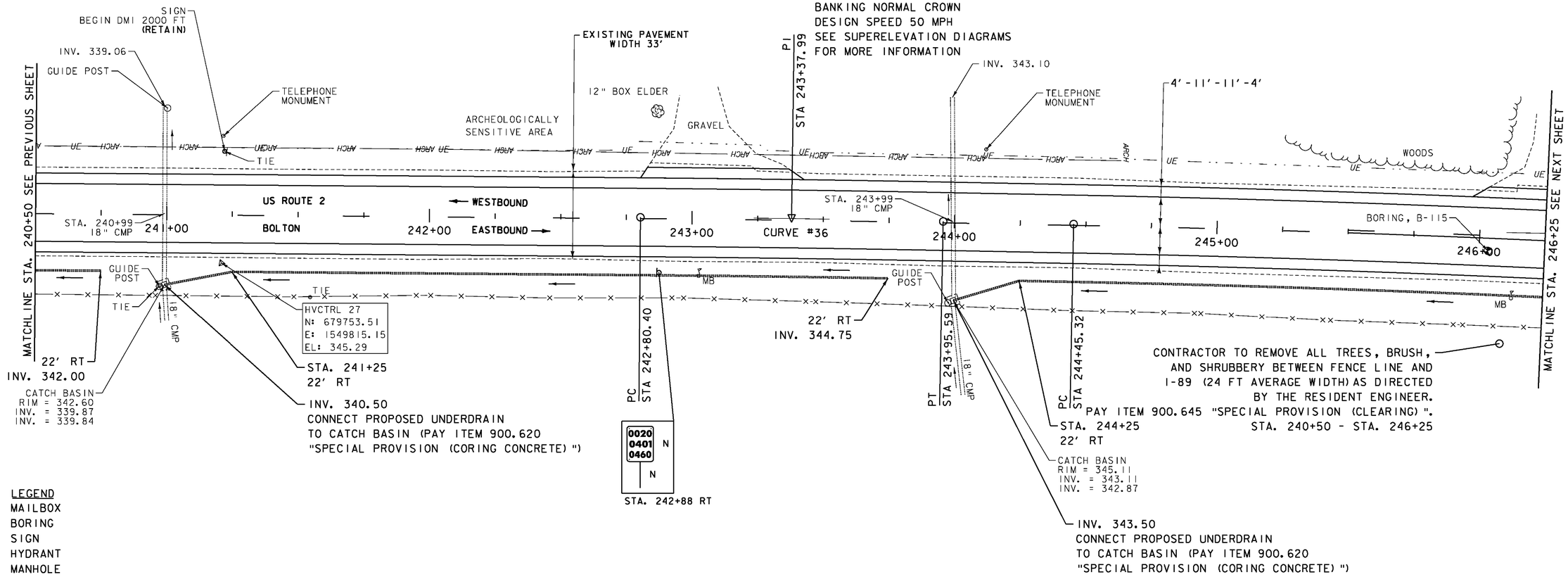
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 240+50 - STA. 245+50 (DASHED)
STA. 245+50 - STA. 246+25 (DASHED LT, SOLID RT)

6 INCH UNDERDRAIN PIPE
STA. 240+50 - STA. 240+75 RT
STA. 241+00 - ~~STA. 243+75 RT~~ STA. 243+72 RT
STA. 244+00 - STA. 246+25 RT

SPECIAL PROVISION (CORING CONCRETE)
STA. 241+00 RT
STA. 244+00 RT

N
VT STATE PLANE GRID

CURVE #36
DELTA = 0°39'36"
D = 0°34'23"
R = 10000.00'
T = 57.59'
L = 115.18'
E = 0.17'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 26

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_50.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 50 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 246+25 - STA. 252+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 246+25 - STA. 252+25 (DASHED LT, SOLID RT)

CURVE #37
DELTA = 3°36'03"
D = 0°49'07"
R = 7000.00'
T = 220.03'
L = 439.92'
E = 3.46'
BANKING REVERSE CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 246+25 - STA. 252+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 246+25 - STA. 252+25 (DASHED LT, SOLID RT)

6 INCH UNDERDRAIN PIPE
STA. 246+25 - STA. 247+75 RT
STA. 251+48 - STA. 252+25 LT

SPECIAL PROVISION (CORING CONCRETE)
STA. 251+48 LT

REMOVING SIGNS
AS SHOWN - 3

THINNING AND TRIMMING FOR SIGNS
STA. 249+37 LT

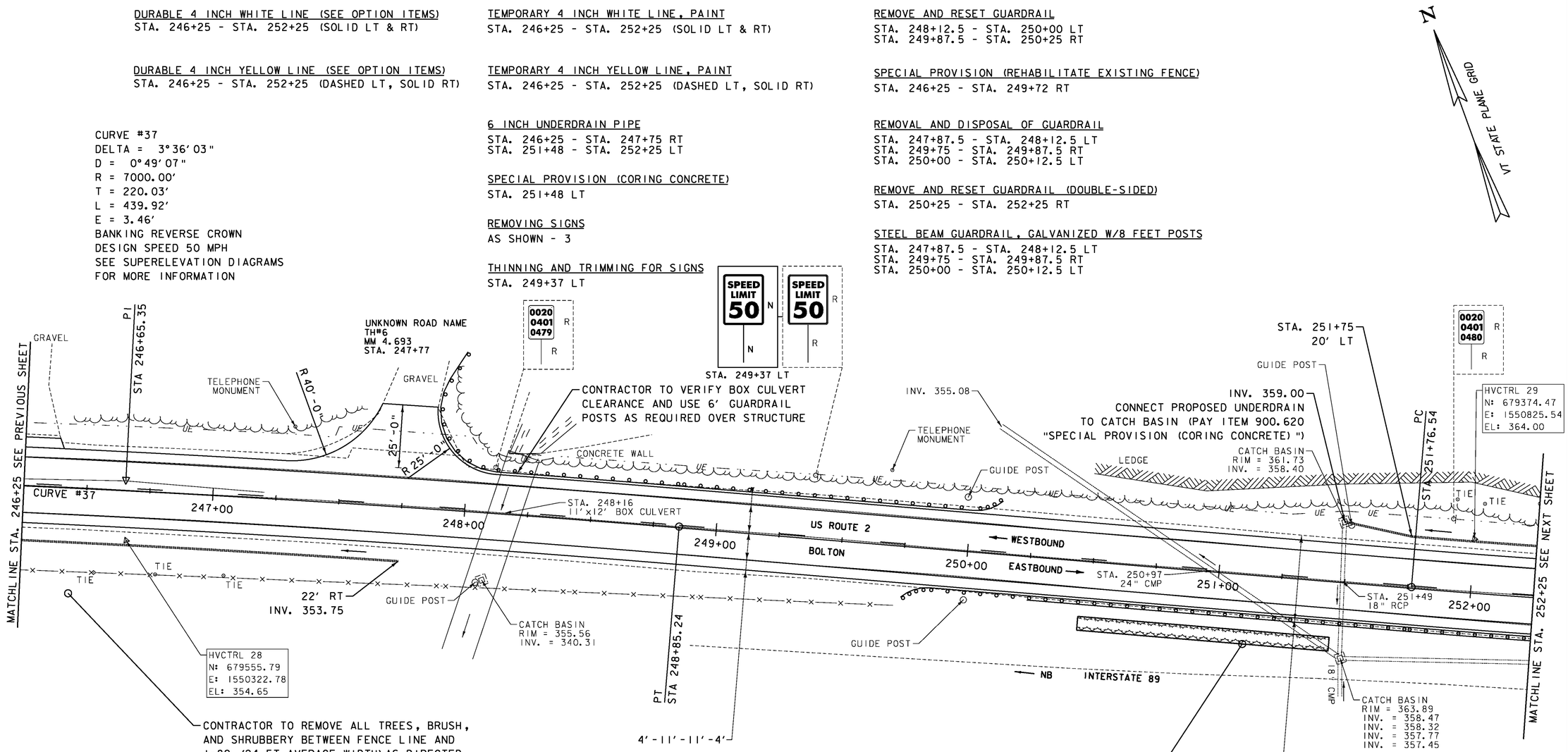
REMOVE AND RESET GUARDRAIL
STA. 248+12.5 - STA. 250+00 LT
STA. 249+87.5 - STA. 250+25 RT

SPECIAL PROVISION (REHABILITATE EXISTING FENCE)
STA. 246+25 - STA. 249+72 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 247+87.5 - STA. 248+12.5 LT
STA. 249+75 - STA. 249+87.5 RT
STA. 250+00 - STA. 250+12.5 LT

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. 250+25 - STA. 252+25 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 247+87.5 - STA. 248+12.5 LT
STA. 249+75 - STA. 249+87.5 RT
STA. 250+00 - STA. 250+12.5 LT



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 27

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_51.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 51 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 252+25 - STA. 258+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 252+25 - STA. 253+50 (DASHED LT, SOLID RT)
STA. 253+50 - STA. 256+50 (SOLID LT & RT)
STA. 256+50 - STA. 258+25 (SOLID LT, DASHED RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 252+25 - STA. 258+25 (SOLID LT & RT)

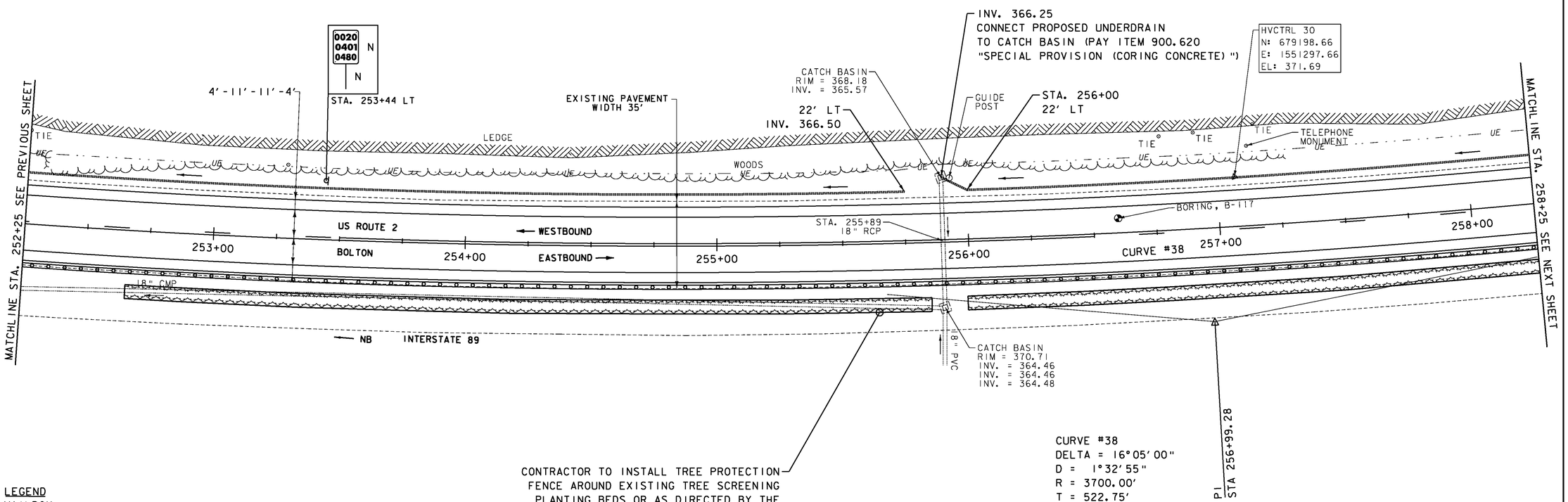
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 252+25 - STA. 253+50 (DASHED LT, SOLID RT)
STA. 253+50 - STA. 256+50 (SOLID LT & RT)
STA. 256+50 - STA. 258+25 (SOLID LT, DASHED RT)

6 INCH UNDERDRAIN PIPE
STA. 252+25 - STA. 255+75 LT
STA. 255+90 - STA. 258+25 LT

SPECIAL PROVISION (CORING CONCRETE)
STA. 255+90 LT

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. 252+25 - STA. 258+25 RT

N
VT STATE PLANE GRID



CONTRACTOR TO INSTALL TREE PROTECTION FENCE AROUND EXISTING TREE SCREENING PLANTING BEDS OR AS DIRECTED BY THE RESIDENT ENGINEER (TYP.).
PAY ITEM 656.85 "TREE PROTECTION"

CURVE #38
DELTA = 16°05'00"
D = 1°32'55"
R = 3700.00'
T = 522.75'
L = 1038.62'
E = 36.75'
BANKING 0.031 FT/FT
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

PI
STA 256+99.28

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 28

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_52.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 52 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 258+25 - STA. 263+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 258+25 - STA. 263+75 (SOLID LT, DASHED RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 258+25 - STA. 263+75 (SOLID LT & RT)

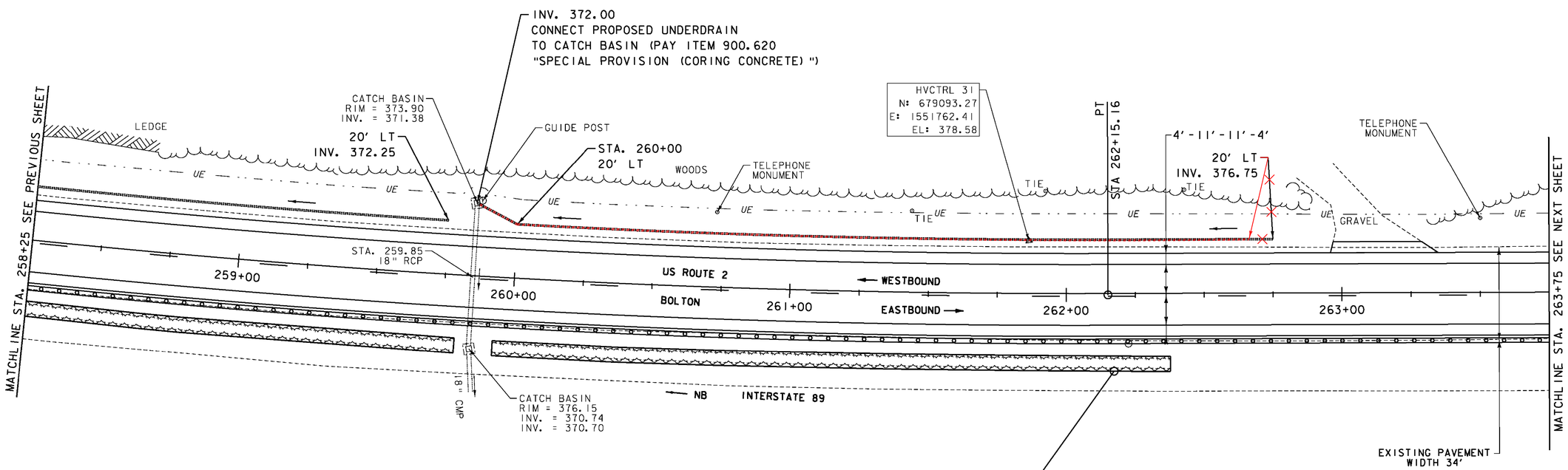
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 258+25 - STA. 263+75 (SOLID LT, DASHED RT)

6 INCH UNDERDRAIN PIPE
STA. 258+25 - STA. ~~259+75 LT~~ 259+72 LT
STA. 259+85 - STA. ~~262+75 LT~~ 262+65 LT

SPECIAL PROVISION (CORING CONCRETE)
STA. 259+85 LT

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. 258+25 - STA. 263+75 RT

N
VT STATE PLANE GRID



CONTRACTOR TO INSTALL TREE PROTECTION FENCE AROUND EXISTING TREE SCREENING PLANTING BEDS OR AS DIRECTED BY THE RESIDENT ENGINEER (TYP.).
PAY ITEM 656.85 "TREE PROTECTION"

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 29

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709 (1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_53.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 53 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 263+75 - STA. 269+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 263+75 - STA. 264+50 (SOLID LT, DASHED RT)
STA. 264+50 - STA. 269+75 (DASHED RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 263+75 - STA. 269+75 (SOLID LT & RT)

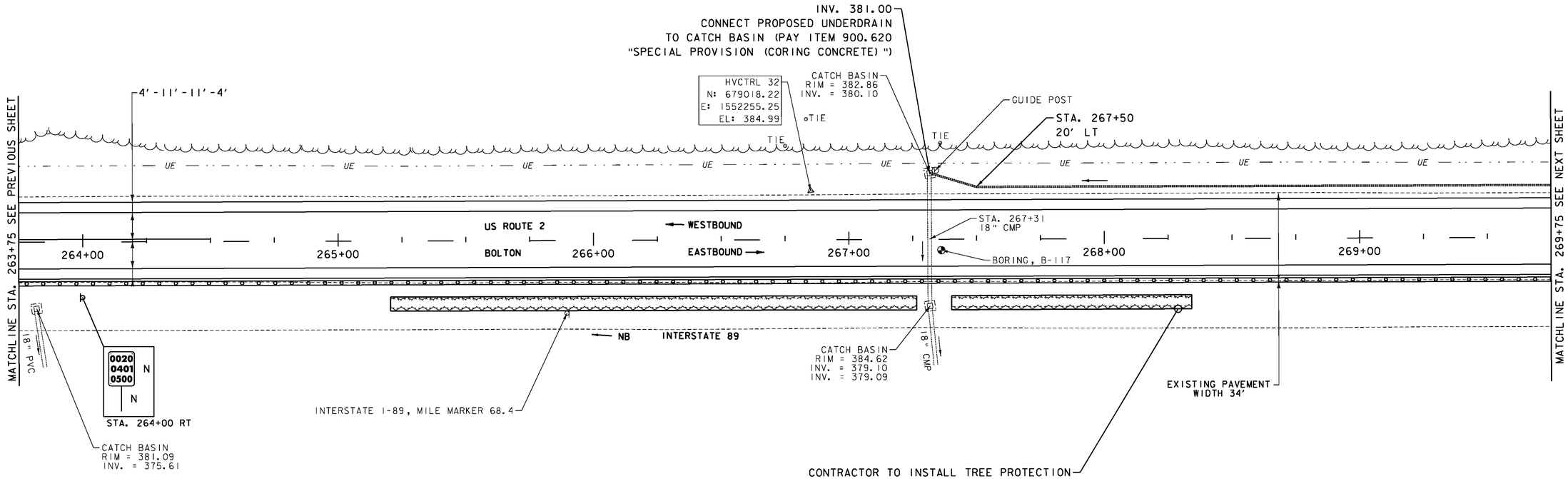
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 263+75 - STA. 264+50 (SOLID LT, DASHED RT)
STA. 264+50 - STA. 269+75 (DASHED RT)

6 INCH UNDERDRAIN PIPE
STA. 267+32 - STA. 269+75 LT

SPECIAL PROVISION (CORING CONCRETE)
STA. 267+32 LT

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. 263+75 - STA. 269+75 RT

N
VT STATE PLANE GRID



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 30

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_54.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 54 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 269+75 - STA. 275+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 269+75 - STA. 275+75 (DASHED)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 269+75 - STA. 275+75 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 269+75 - STA. 275+75 (DASHED)

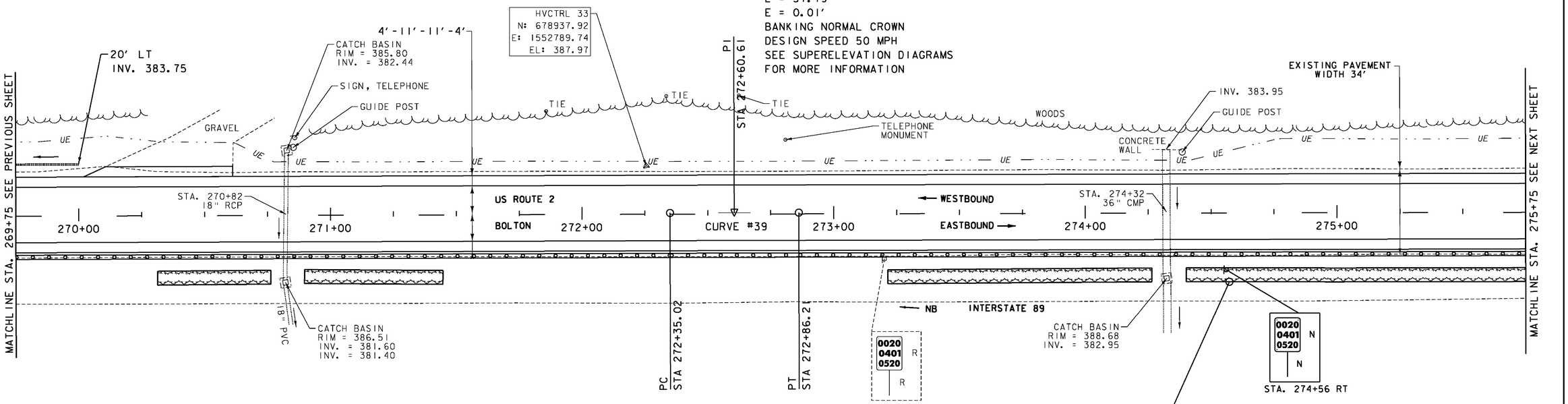
REMOVING SIGNS
AS SHOWN - 1

6 INCH UNDERDRAIN PIPE
STA. 269+75 - STA. ~~270+00 LT~~ 270+02 LT

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. 269+75 - STA. 275+75 RT

N
VT STATE PLANE GRID

CURVE #39
DELTA = 0°03'31"
D = 0°06'53"
R = 50000.00'
T = 25.60'
L = 51.19'
E = 0.01'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION



CONTRACTOR TO INSTALL TREE PROTECTION FENCE AROUND EXISTING TREE SCREENING PLANTING BEDS OR AS DIRECTED BY THE RESIDENT ENGINEER (TYP.).
PAY ITEM 656.85 "TREE PROTECTION"

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 31

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_55.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 55 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 275+75 - STA. 281+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 275+75 - STA. 280+25 (DASHED)
STA. 280+25 - STA. 281+75 (DASHED LT, SOLID RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 275+75 - STA. 281+75 (SOLID LT & RT)

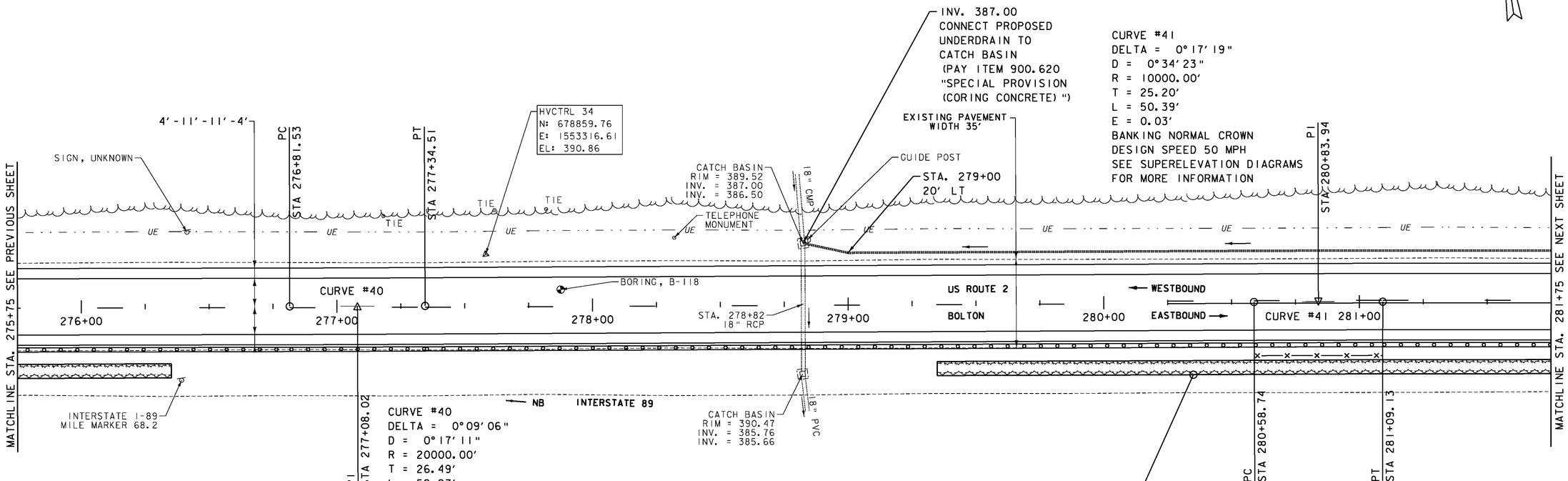
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 275+75 - STA. 280+25 (DASHED)
STA. 280+25 - STA. 281+75 (DASHED LT, SOLID RT)

6 INCH UNDERDRAIN PIPE
STA. 278+82 - STA. 281+75 LT

SPECIAL PROVISION (CORING CONCRETE)
STA. 278+82 LT

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. 275+75 - STA. 281+75 RT

N
VT STATE PLANE GRID



CURVE #40
DELTA = 0°09'06"
D = 0°17'11"
R = 20000.00'
T = 26.49'
L = 52.97'
E = 0.02'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

CONTRACTOR TO INSTALL TREE PROTECTION FENCE AROUND EXISTING TREE SCREENING PLANTING BEDS OR AS DIRECTED BY THE RESIDENT ENGINEER (TYP.).
PAY ITEM 656.85 "TREE PROTECTION"

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 32

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_56.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 56 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 281+75 - STA. 287+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 281+75 - STA. 287+50 (DASHED LT, SOLID RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 281+75 - STA. 287+50 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 281+75 - STA. 287+50 (DASHED LT, SOLID RT)

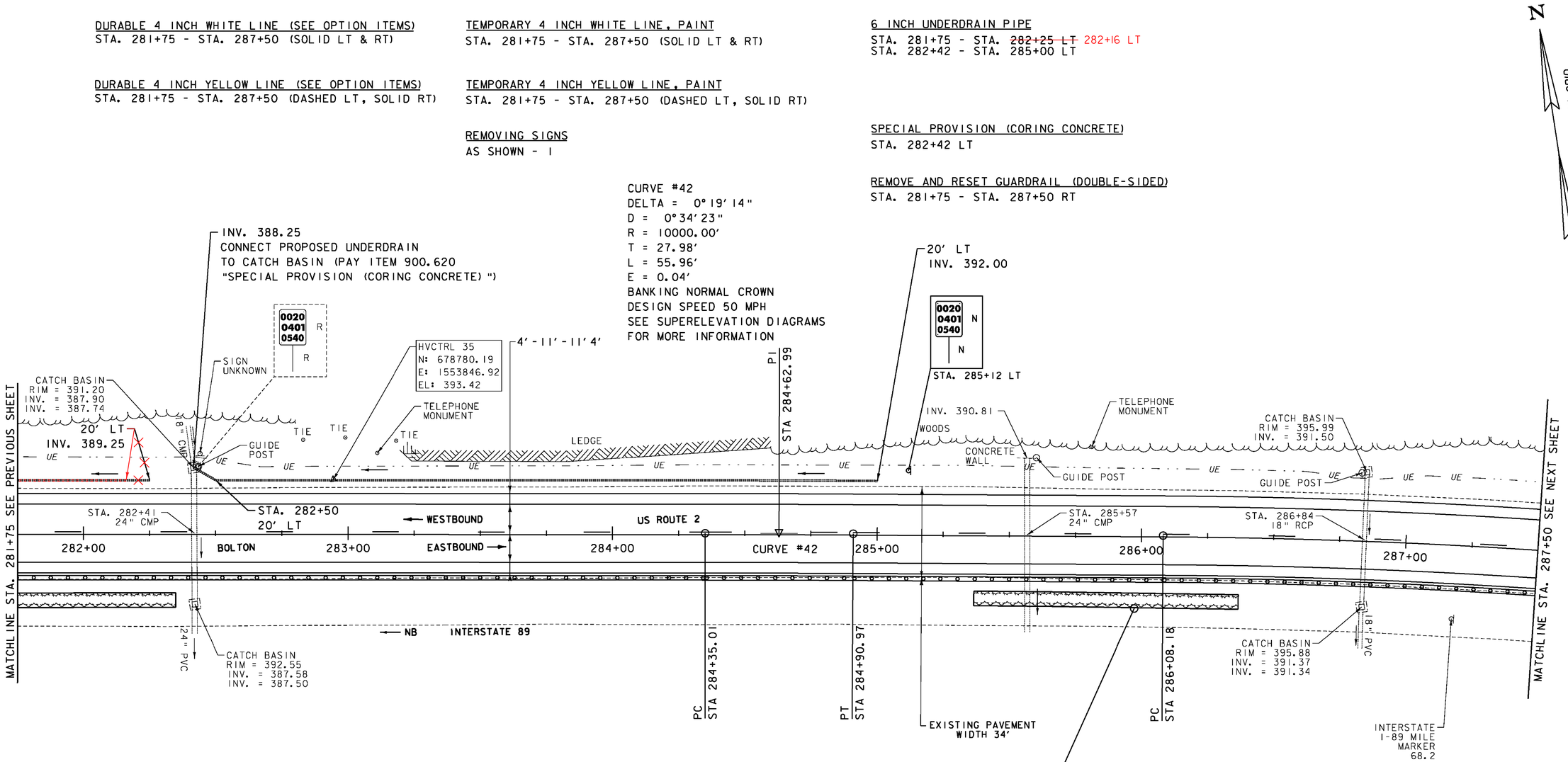
REMOVING SIGNS
AS SHOWN - 1

6 INCH UNDERDRAIN PIPE
STA. 281+75 - STA. ~~282+25 LT~~ 282+16 LT
STA. 282+42 - STA. 285+00 LT

SPECIAL PROVISION (CORING CONCRETE)
STA. 282+42 LT

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. 281+75 - STA. 287+50 RT

CURVE #42
DELTA = 0°19'14"
D = 0°34'23"
R = 10000.00'
T = 27.98'
L = 55.96'
E = 0.04'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION



CONTRACTOR TO INSTALL TREE PROTECTION FENCE AROUND EXISTING TREE SCREENING PLANTING BEDS OR AS DIRECTED BY THE RESIDENT ENGINEER (TYP.). PAY ITEM 656.85 "TREE PROTECTION"

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 33

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_57.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 57 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 287+50 - STA. 293+50 (SOLID LT & RT)

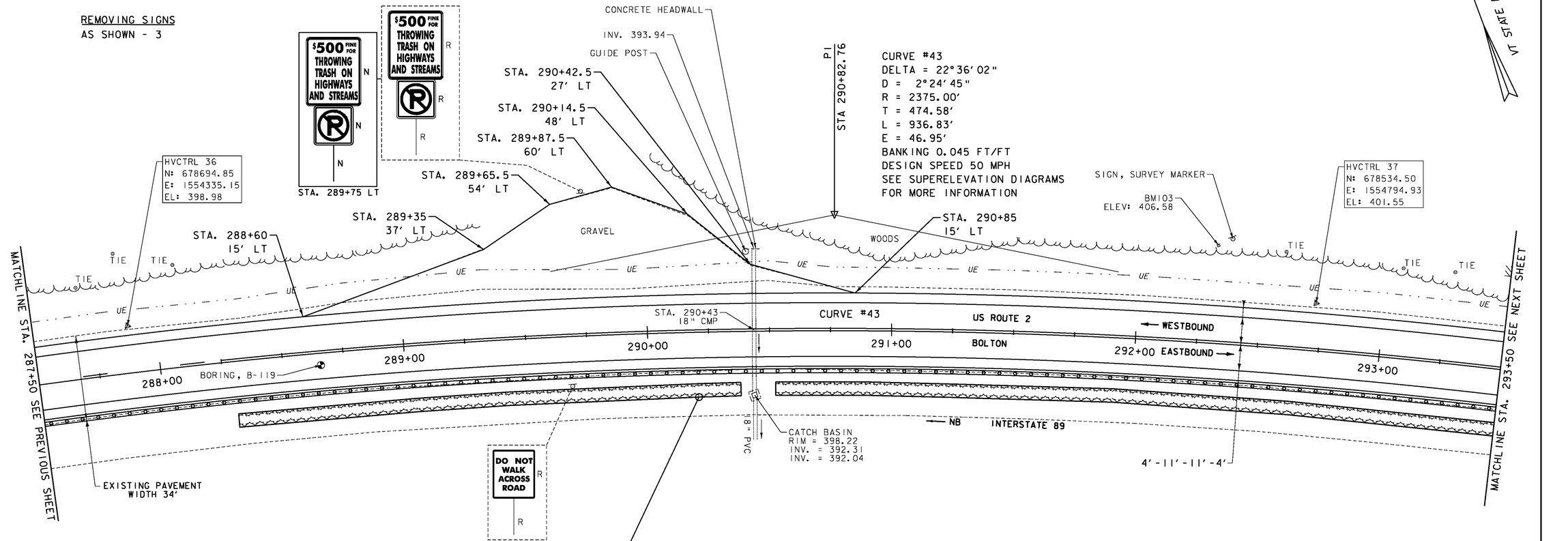
DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 287+50 - STA. 288+25 (DASHED LT, SOLID RT)
STA. 288+25 - STA. 293+50 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 287+50 - STA. 293+50 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 287+50 - STA. 288+25 (DASHED LT, SOLID RT)
STA. 288+25 - STA. 293+50 (SOLID LT & RT)

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. 287+50 - STA. 293+50 RT

REMOVING SIGNS
AS SHOWN - 3



CURVE #43
DELTA = 22°36'02"
D = 2°24'45"
R = 2375.00'
T = 474.58'
L = 936.83'
E = 46.95'
BANKING 0.045 FT/FT
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

CONTRACTOR TO INSTALL TREE PROTECTION FENCE AROUND EXISTING TREE SCREENING PLANTING BEDS OR AS DIRECTED BY THE RESIDENT ENGINEER (TYP.).
PAY ITEM 656.85 "TREE PROTECTION"

N
VT STATE PLANE GRID

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 34

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_58.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 58 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 293+50 - STA. 299+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 293+50 - STA. 299+25 (SOLID LT & RT)

6 INCH UNDERDRAIN PIPE
STA. 295+25 - STA. 299+08 LT
STA. 299+08 - STA. 299+25 LT

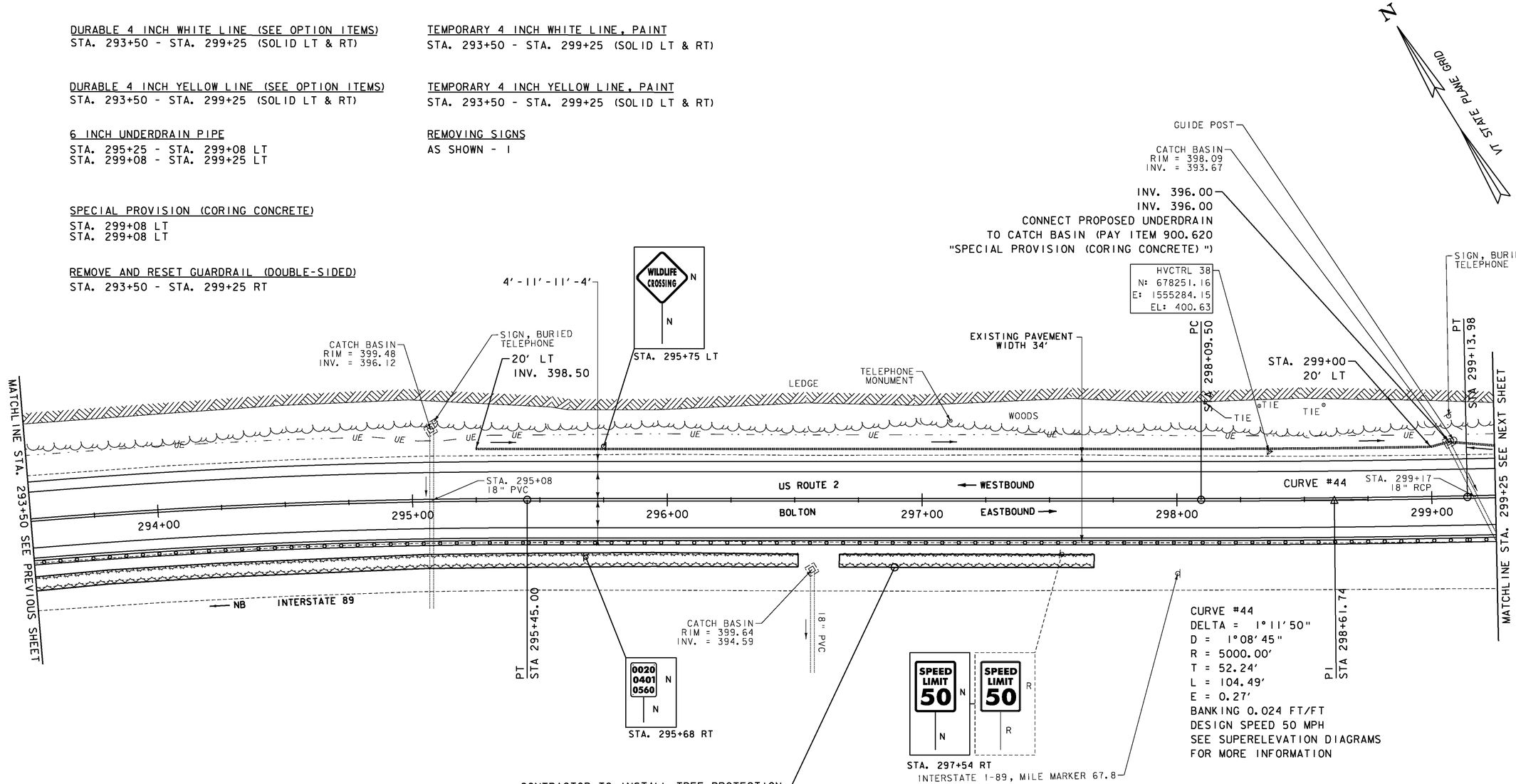
SPECIAL PROVISION (CORING CONCRETE)
STA. 299+08 LT
STA. 299+08 LT

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. 293+50 - STA. 299+25 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 293+50 - STA. 299+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 293+50 - STA. 299+25 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 1



CONTRACTOR TO INSTALL TREE PROTECTION FENCE AROUND EXISTING TREE SCREENING PLANTING BEDS OR AS DIRECTED BY THE RESIDENT ENGINEER (TYP.). PAY ITEM 656.85 "TREE PROTECTION"

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 35

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_59.i

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 59 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. 299+25 - STA. 299+71 (SOLID LT & RT)
STA. A 0+00 - STA. A 5+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. 299+25 - STA. 299+71 (SOLID LT & RT)
STA. A 0+00 - STA. A 5+50 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 299+25 - STA. 299+71 (SOLID LT & RT)
STA. A 0+00 - STA. A 5+50 (SOLID LT & RT)

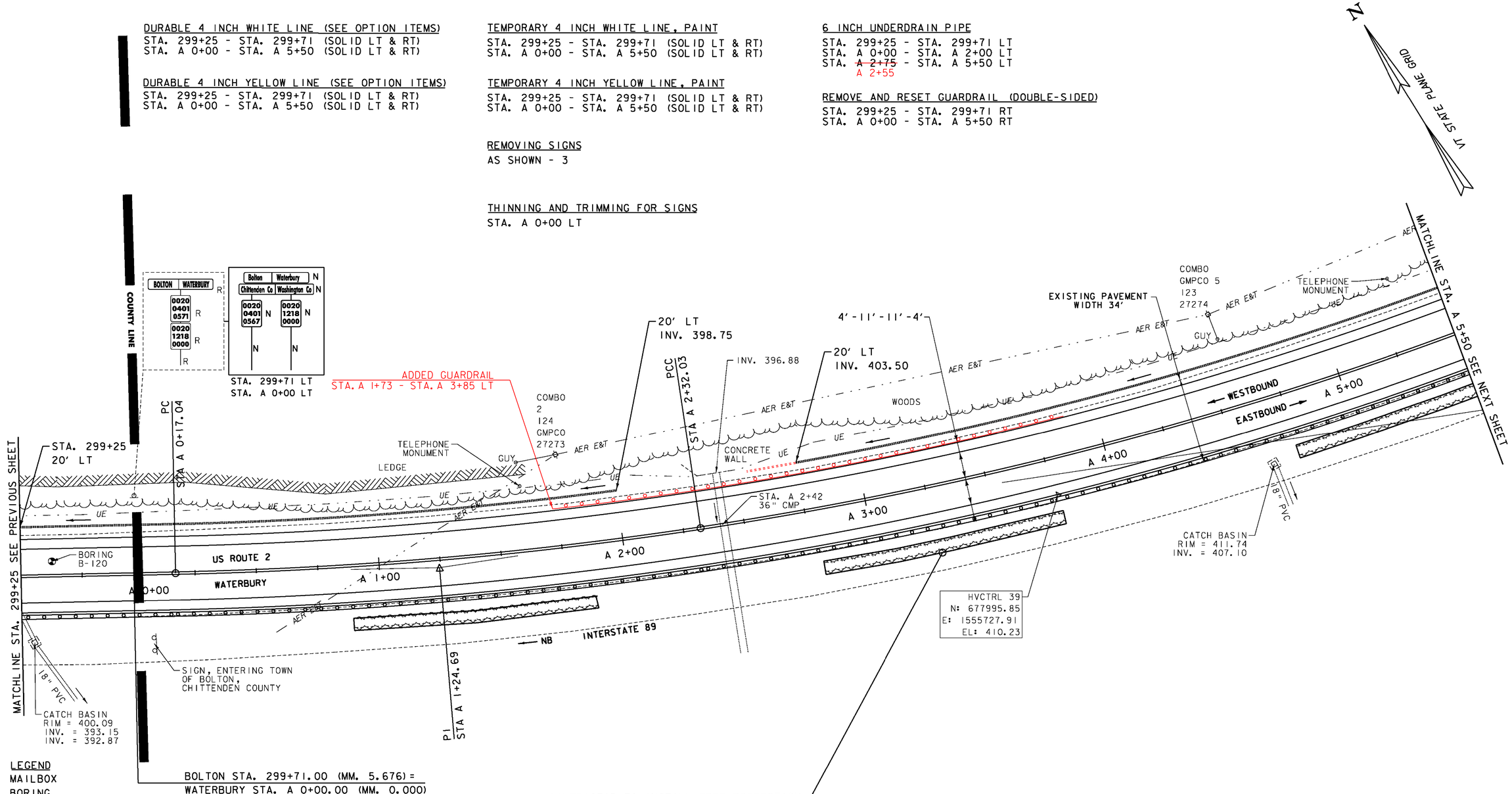
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 299+25 - STA. 299+71 (SOLID LT & RT)
STA. A 0+00 - STA. A 5+50 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 3

THINNING AND TRIMMING FOR SIGNS
STA. A 0+00 LT

6 INCH UNDERDRAIN PIPE
STA. 299+25 - STA. 299+71 LT
STA. A 0+00 - STA. A 2+00 LT
STA. ~~A 2+75~~ A 2+55 - STA. A 5+50 LT

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. 299+25 - STA. 299+71 RT
STA. A 0+00 - STA. A 5+50 RT



BOLTON STA. 299+71.00 (MM. 5.676) =
WATERBURY STA. A 0+00.00 (MM. 0.000)

CONTRACTOR TO INSTALL TREE PROTECTION FENCE AROUND EXISTING TREE SCREENING PLANTING BEDS OR AS DIRECTED BY THE RESIDENT ENGINEER (TYP.).
PAY ITEM 656.85 "TREE PROTECTION"

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 36

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_60.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 60 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 5+50 - STA. A 11+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 5+50 - STA. A 11+25 (SOLID LT & RT)

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. A 5+50 - STA. A 11+25 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 5+50 - STA. A 11+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 5+50 - STA. A 11+25 (SOLID LT & RT)

PVT SHARKEYVILLE R R R
STA. A 6+72 LT

Pvt Sharkeyville N N N

20' LT
INV. 411.00

MATCHLINE STA. A 5+50 SEE PREVIOUS SHEET

E&T
WOODS
AER E&T
UE
GRAVEL
GUY
COMBO
122
27275
DISCONTINUED
DRIVE
GRAVEL
GUIDE POST
TELEPHONE
MONUMENT
PCC
STA. A 8+71.50
COMBO
2
121
NETCO
WOODS
T&E
THREATENED AND
ENDANGERED SPECIES AREA
STA. A 10+56 LT
0020
1218
0020
R
N
CURVE #1
US ROUTE 2
WATERBURY
A 6+00
A 7+00
A 8+00
A 9+00
A 10+00
A 11+00
WESTBOUND
EASTBOUND
BORING, B-121
NB INTERSTATE 89
INTERSTATE I-89, MILE MARKER 67.6
HVCTRL 40
N: 677922.03
E: 1556225.06
EL: 425.84
EXISTING PAVEMENT
WIDTH 34'
MATCHLINE STA. A 11+25 SEE NEXT SHEET
PI STA A 5+56.35
PI STA A 11+12.11
4'-11'-11'-4'

N
VT STATE PLANE GRID

6 INCH UNDERDRAIN PIPE
STA. A 5+50 - STA. A 5+75 LT

REMOVING SIGNS
AS SHOWN - 2

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 8+12.5 - STA. A 8+25 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 8+12.5 - STA. A 8+25 LT

REMOVE AND RESET GUARDRAIL
STA. A 8+25 - STA. A 11+25 LT

CONTRACTOR TO INSTALL TREE PROTECTION FENCE AROUND EXISTING TREE SCREENING PLANTING BEDS OR AS DIRECTED BY THE RESIDENT ENGINEER (TYP.). PAY ITEM 656.85 "TREE PROTECTION"

CURVE #1
DELTA = 54°18'46"
D = 3°26'21"(1) D = 3°41'05"(2) D = 3°36'45"(3) D = 2°39'18"(4)
R = 1666.00' (1) R = 1555.00' (2) R = 1586.00' (3) R = 2158.00' (4)
T = 818.41' (1) T = 867.76' (2)
L = 214.99' (1) L = 639.47' (2) L = 477.57' (3) L = 229.90' (4)
E = 190.16'
BANKING 0.060 FT/FT, 0.060 FT/FT, 0.060 FT/FT, 0.048 FT/FT
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

THREATENED AND
ENDANGERED SPECIES AREA

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 37

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_61.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 61 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 11+25 - STA. A 16+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 11+25 - STA. A 12+50 (SOLID LT & RT)
STA. A 12+50 - STA. A 16+75 (SOLID LT, DASHED RT)

SPECIAL PROVISION (CAP CURB DROP INLET)
STA. A 14+20 LT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 11+25 - STA. A 16+75 (SOLID LT & RT)

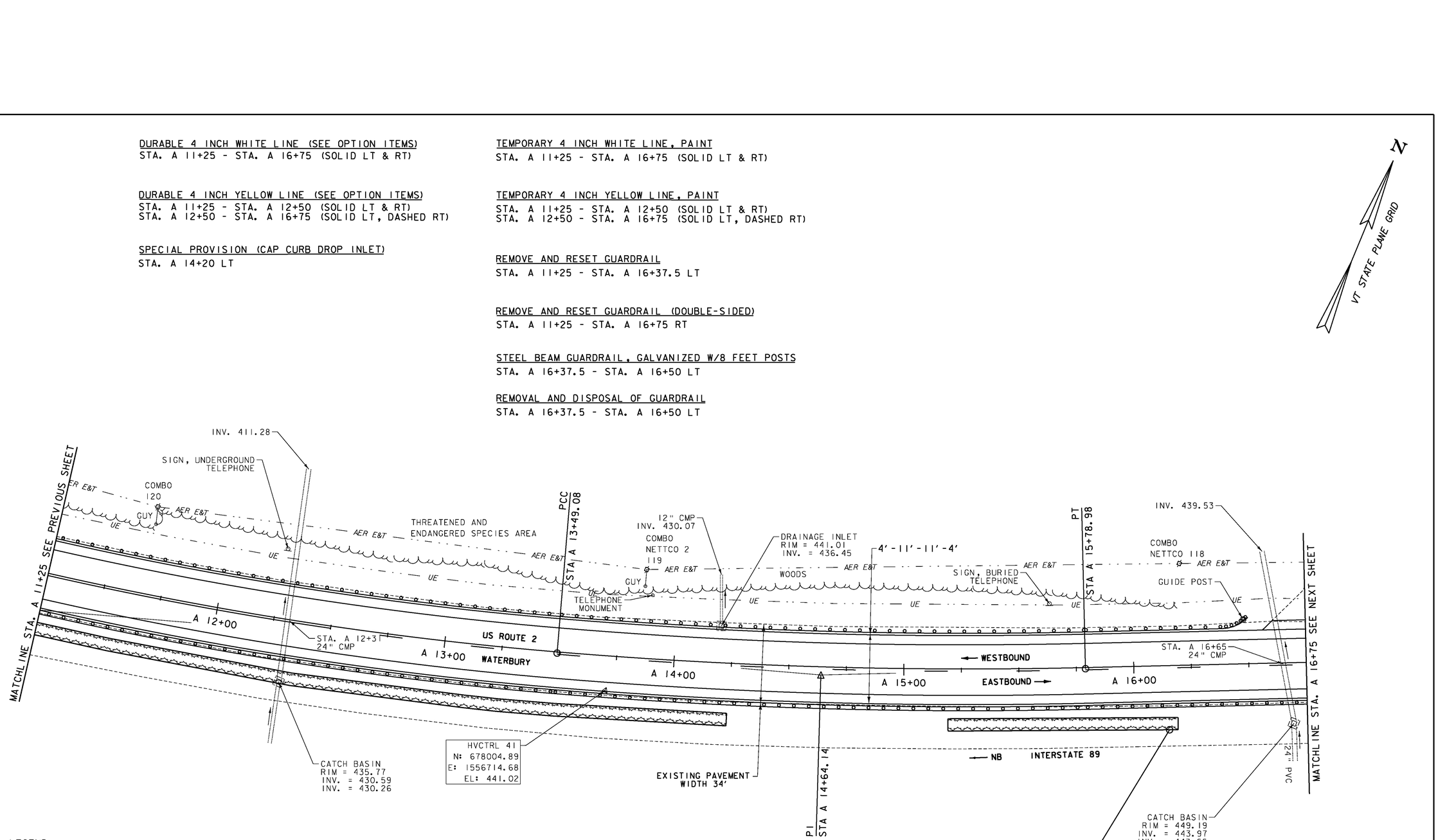
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 11+25 - STA. A 12+50 (SOLID LT & RT)
STA. A 12+50 - STA. A 16+75 (SOLID LT, DASHED RT)

REMOVE AND RESET GUARDRAIL
STA. A 11+25 - STA. A 16+37.5 LT

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. A 11+25 - STA. A 16+75 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 16+37.5 - STA. A 16+50 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 16+37.5 - STA. A 16+50 LT



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

THREATENED AND ENDANGERED SPECIES AREA

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 38

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_62.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 62 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 16+75 - STA. A 22+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 16+75 - STA. A 20+00 (SOLID LT, DASHED RT)
STA. A 20+00 - STA. A 21+00 (SOLID LT & RT)
STA. A 21+00 - STA. A 22+75 (DASHED LT, SOLID RT)

REMOVING SIGNS
AS SHOWN - 1

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 16+75 - STA. A 22+75 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 16+75 - STA. A 20+00 (SOLID LT, DASHED RT)
STA. A 20+00 - STA. A 21+00 (SOLID LT & RT)
STA. A 21+00 - STA. A 22+75 (DASHED LT, SOLID RT)

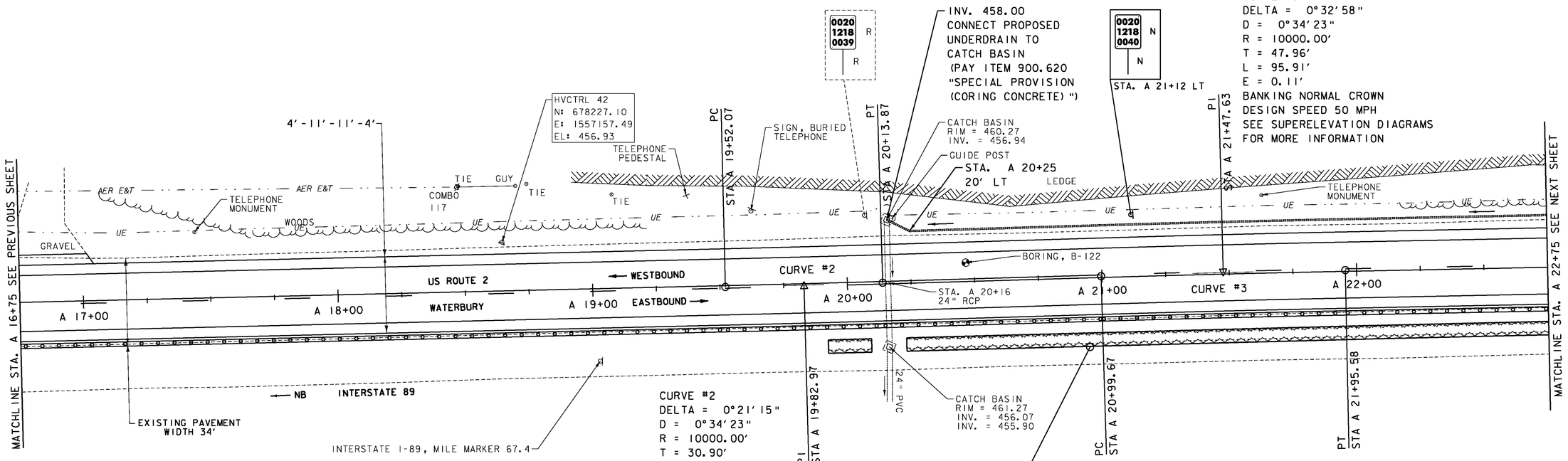
6 INCH UNDERDRAIN PIPE
STA. A 20+16 - STA. A 22+75 LT

SPECIAL PROVISION (CORING CONCRETE)
STA. A 20+16 LT

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. A 16+75 - STA. A 22+75 RT

N
VT STATE PLANE GRID

THREATENED AND
ENDANGERED SPECIES AREA



THREATENED AND
ENDANGERED SPECIES AREA

CURVE #2
DELTA = 0°21'15"
D = 0°34'23"
R = 10000.00'
T = 30.90'
L = 61.80'
E = 0.05'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

CONTRACTOR TO INSTALL TREE PROTECTION FENCE AROUND EXISTING TREE SCREENING PLANTING BEDS OR AS DIRECTED BY THE RESIDENT ENGINEER (TYP.).
PAY ITEM 656.85 "TREE PROTECTION"

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 39

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_63.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 63 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 22+75 - STA. A 28+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 22+75 - STA. A 27+50 (DASHED LT, SOLID RT)
STA. A 27+50 - STA. A 28+75 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 22+75 - STA. A 28+75 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 22+75 - STA. A 27+50 (DASHED LT, SOLID RT)
STA. A 27+50 - STA. A 28+75 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 1

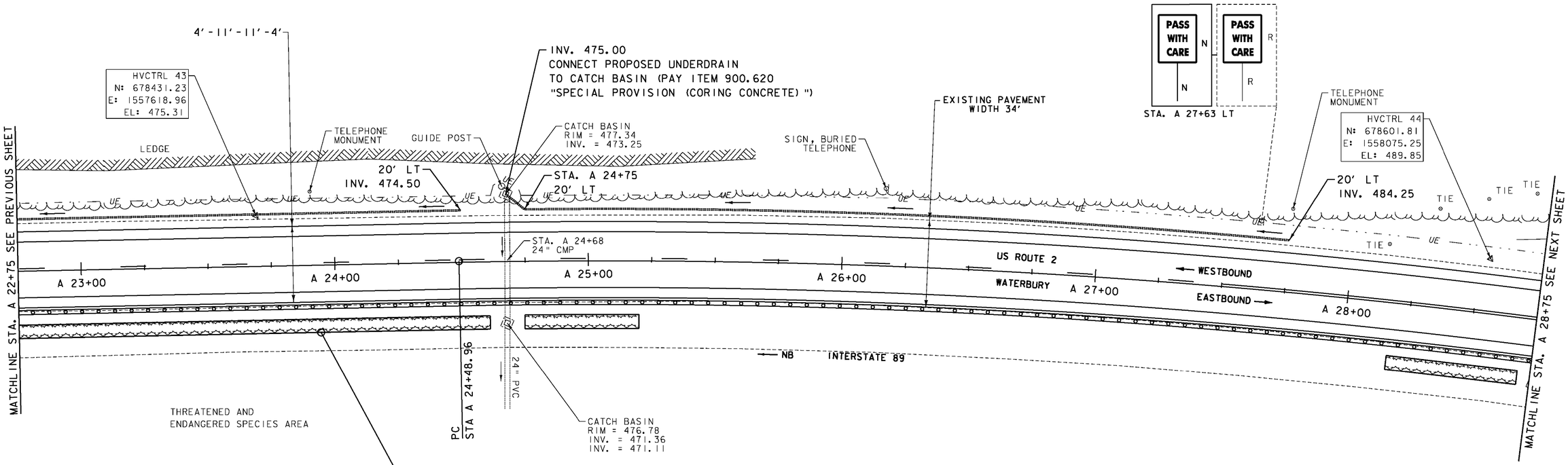
6 INCH UNDERDRAIN PIPE
STA. A 22+75 - STA. A 24+50 LT
STA. A 24+68 - STA. ~~A 27+75 LT~~ A 27+72 LT

SPECIAL PROVISION (CORING CONCRETE)
STA. A 24+68 LT

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. A 22+75 - STA. A 28+75 RT

T&E
T&E
N
VT STATE PLANE GRID

THREATENED AND
ENDANGERED SPECIES AREA



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 40

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_64.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 64 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 28+75 - STA. A 34+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 28+75 - STA. A 34+50 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 28+75 - STA. A 34+50 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 28+75 - STA. A 34+50 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 1

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. A 28+75 - STA. A 34+50 RT

N
VT STATE PLANE GRID

CURVE #4
DELTA = 21°42'55"
D = 1°58'33"
R = 2900.00'
T = 556.23'
L = 1099.11'
E = 52.86'
BANKING 0.038 FT/FT
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

PI STA A 30+05.19

0020 1218 0060 R
R

0020 1218 0060 N
N

STA. A 31+68 LT

HVCTRL 45
N: 678696.66
E: 1558592.04
EL: 505.24

GUIDE POST
TELEPHONE MONUMENT

LEDGE

CATCH BASIN
RIM = 501.04
INV. = 497.72

TIE TIE TIE

THREATENED AND ENDANGERED SPECIES AREA

WOODS

T&E UE

SEE PREVIOUS SHEET STA. A 28+75

US ROUTE 2 CURVE #4 ← WESTBOUND
WATERBURY A 30+00 EASTBOUND →

A 29+00 A 31+00 A 32+00 A 33+00 A 34+00

BORING, B-123

STA. A 32+85
24" RCP

NB INTERSTATE 89

SEE NEXT SHEET STA. A 34+50

MATCHLINE STA. A 28+75

24" PVC

CATCH BASIN
RIM = 488.64
INV. = 483.16

INTERSTATE I-89, MILE MARKER 67.2

4'-11'-11'-4'

CATCH BASIN
RIM = 500.67
INV. = 495.56
INV. = 495.41

24" PVC

EXISTING PAVEMENT
WIDTH 35'

MATCHLINE STA. A 34+50

THREATENED AND ENDANGERED SPECIES AREA

CONTRACTOR TO INSTALL TREE PROTECTION FENCE AROUND EXISTING TREE SCREENING PLANTING BEDS OR AS DIRECTED BY THE RESIDENT ENGINEER (TYP.).
PAY ITEM 656.85 "TREE PROTECTION"

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 41

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_65.i

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 65 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 34+50 - STA. A 40+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 34+50 - STA. A 40+50 (SOLID LT & RT)

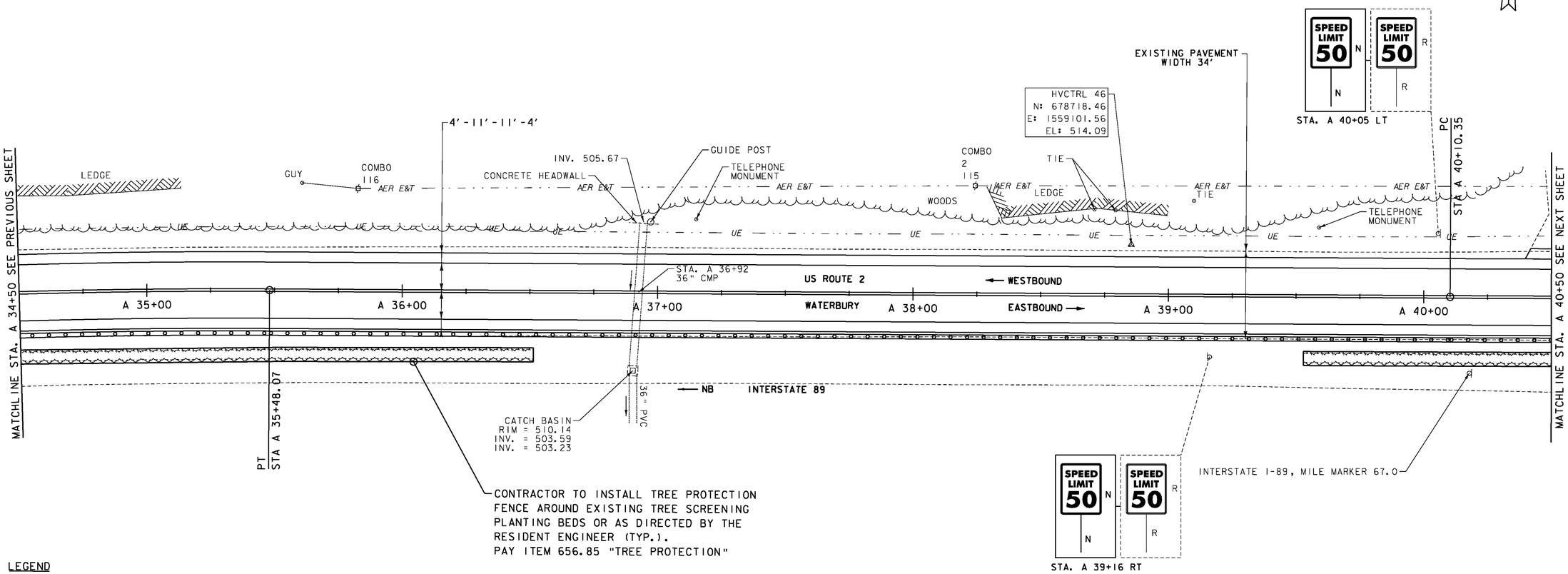
TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 34+50 - STA. A 40+50 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 34+50 - STA. A 40+50 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 2

REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. A 34+50 - STA. A 40+50 RT

N
VT STATE PLANE GRID



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 42

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_66.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 66 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 40+50 - STA. A 46+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 40+50 - STA. A 46+25 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 40+50 - STA. A 46+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 40+50 - STA. A 46+25 (SOLID LT & RT)

REMOVE AND RESET GUARDRAIL
STA. A 44+41.25 - STA. A 45+47.5 LT
STA. A 43+54 - STA. A 43+91.5 RT

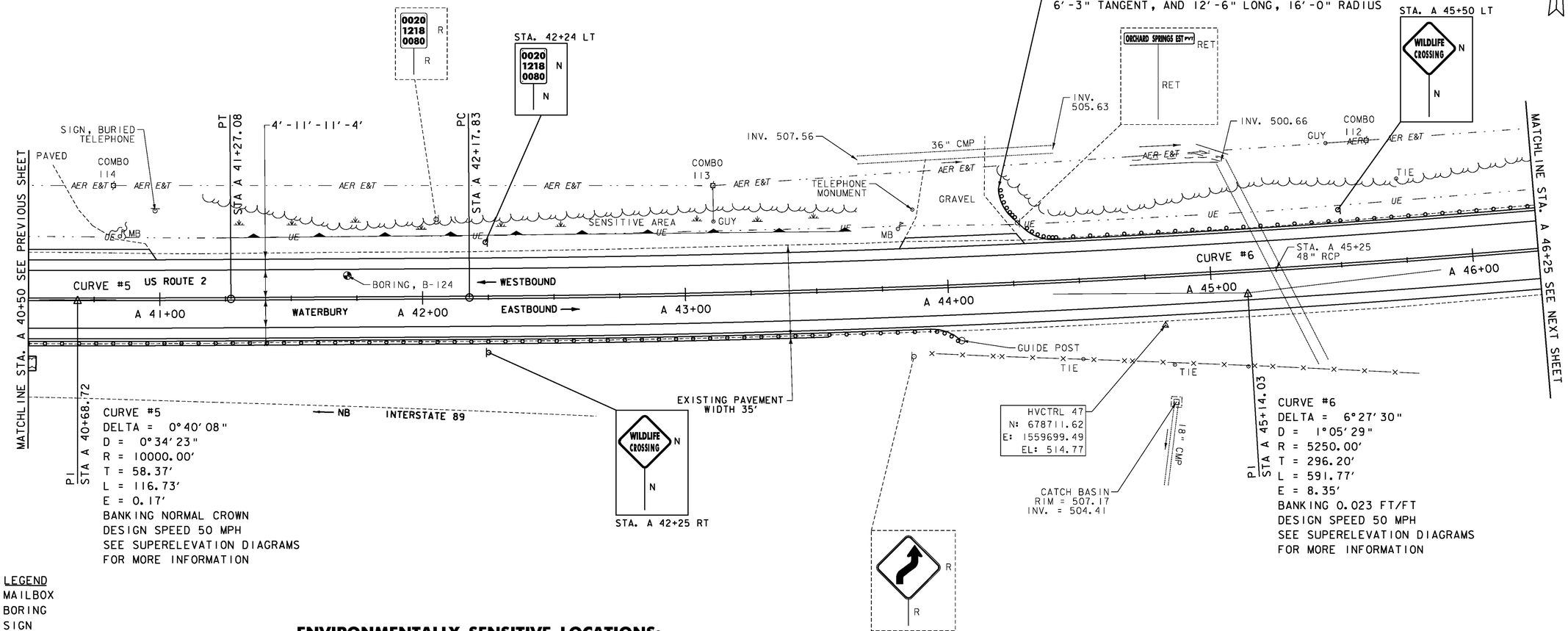
REMOVE AND RESET GUARDRAIL (DOUBLE-SIDED)
STA. A 40+50 - STA. A 43+54 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 43+91.5 - STA. A 44+04 RT
STA. A 44+20.75 - STA. A 44+41.25 LT
STA. A 45+47.5 - STA. 46+25 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 44+20.75 - STA. A 44+41.25 LT
STA. A 43+91.5 - STA. A 44+04 RT

REMOVING SIGNS
AS SHOWN - 2

N
VT STATE PLANE GRID



CURVE #5
DELTA = 0°40'08"
D = 0°34'23"
R = 10000.00'
T = 58.37'
L = 116.73'
E = 0.17'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

CURVE #6
DELTA = 6°27'30"
D = 1°05'29"
R = 5250.00'
T = 296.20'
L = 591.77'
E = 8.35'
BANKING 0.023 FT/FT
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

ENVIRONMENTALLY SENSITIVE LOCATIONS:

NO.	LIMITS	POS.	TYPE
1.	STA. A 41+21 - STA. A 43+63	LT	-

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 43

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_67.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 67 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 46+25 - STA. A 52+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 46+25 - STA. A 52+25 (SOLID LT & RT)

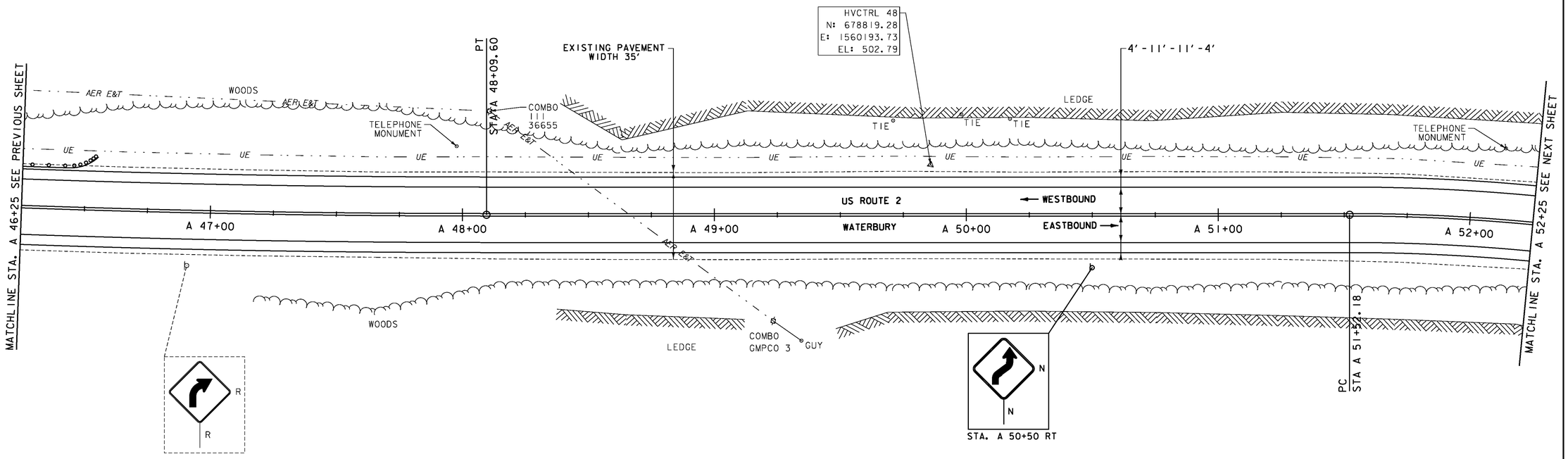
TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 46+25 - STA. A 52+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 46+25 - STA. A 52+25 (SOLID LT & RT)

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 46+25 - STA. A 46+60 LT

REMOVING SIGNS
AS SHOWN - 1

N
VT STATE PLANE GRID



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 44

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_68.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 68 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 52+25 - STA. A 57+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 52+25 - STA. A 57+75 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 52+25 - STA. A 57+75 (SOLID LT & RT)

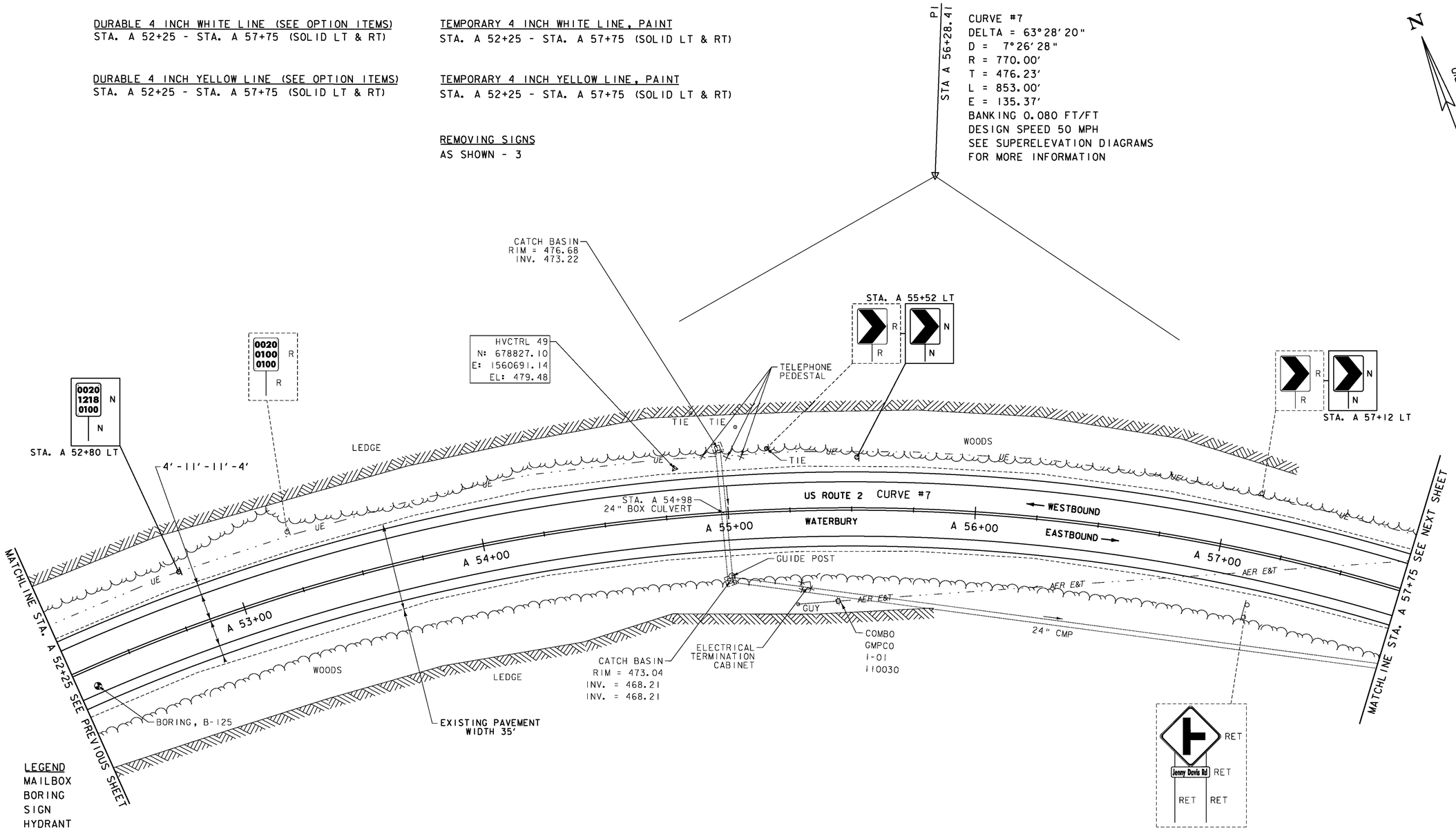
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 52+25 - STA. A 57+75 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 3

PI STA A 56+28.41

CURVE #7
DELTA = 63°28'20"
D = 7°26'28"
R = 770.00'
T = 476.23'
L = 853.00'
E = 135.37'
BANKING 0.080 FT/FT
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

N
VT STATE PLANE GRID



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 45

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_69.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 69 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 57+75 - STA. A 63+75 (SOLID LT & RT)
(WITH EDGE LINE BREAKS AT TH#43)
STA. A 60+98 (EDGE LINES AT TH#43)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 57+75 - STA. A 63+75 (SOLID LT & RT)
(WITH CENTERLINE BREAKS AT TH#43)
STA. A 60+98 (CENTERLINE AT TH#43)

DURABLE 24 INCH STOP BAR (SEE OPTIONS ITEMS)
STA. A 61+00 - STA. A 61+19 RT

DURABLE LETTER OR SYMBOL (SEE OPTIONS ITEMS)
STA. A 61+06 RT "STOP"

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 57+75 - STA. A 63+75 (SOLID LT & RT)
(WITH EDGE LINE BREAKS AT TH#43)
STA. A 60+98 (EDGE LINES AT TH#43)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 57+75 - STA. A 63+75 (SOLID LT & RT)
(WITH CENTERLINE BREAKS AT TH#43)
STA. A 60+98 (CENTERLINE AT TH#43)

TEMPORARY 24 INCH STOP BAR, PAINT
STA. A 61+00 - STA. A 61+19 RT

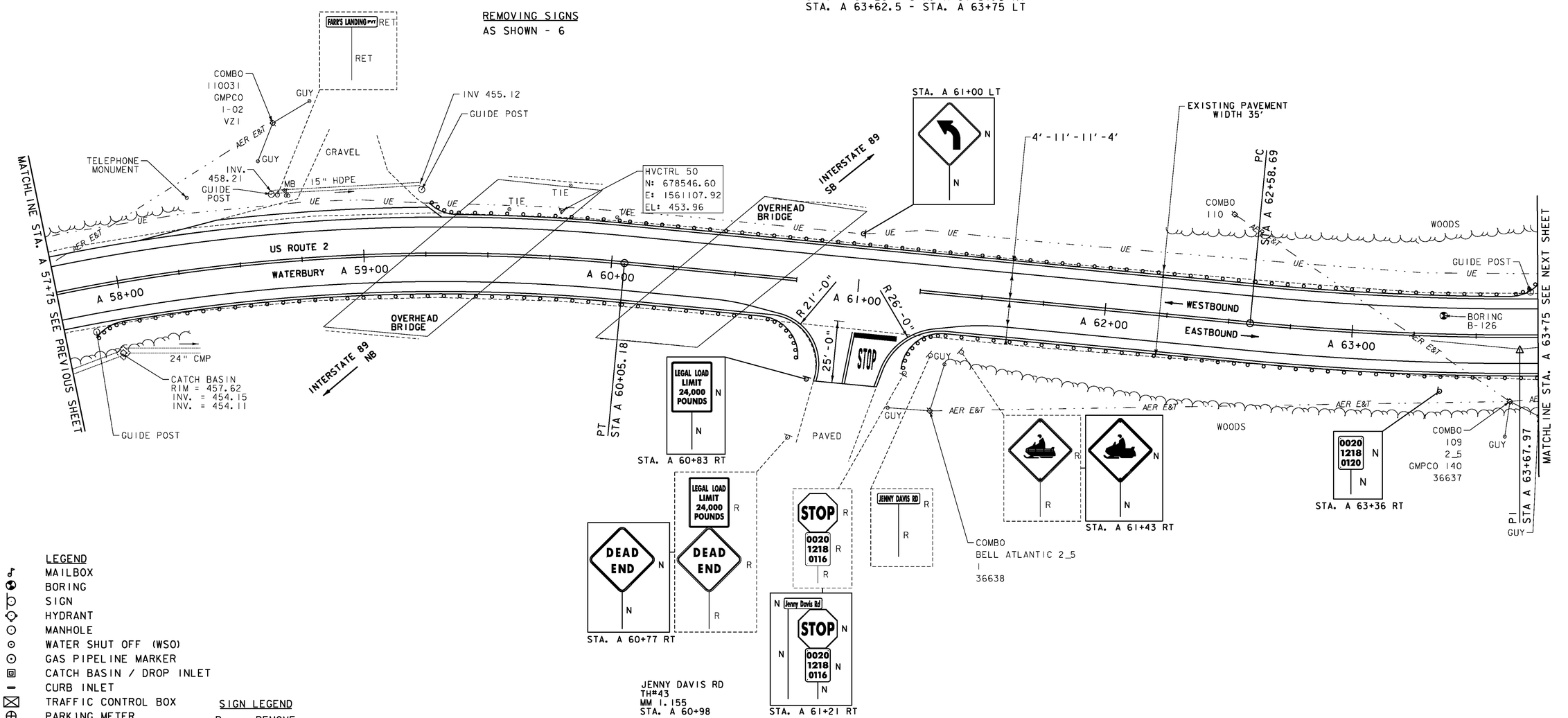
TEMPORARY LETTER OR SYMBOL, PAINT
STA. A 61+06 RT "STOP"

REMOVING SIGNS
AS SHOWN - 6

REMOVE AND RESET GUARDRAIL
STA. A 58+00 - STA. A 60+62.5 RT
STA. A 59+37.5 - STA. A 63+62.5 LT
STA. A 61+37.5 - STA. A 63+75 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 57+87.5 - STA. A 58+00 RT
STA. A 59+25 - STA. A 59+37.5 LT
STA. A 60+62.5 - STA. A 60+78.5 RT
STA. A 61+20.25 - STA. A 61+37.5 RT
STA. A 63+62.5 - STA. A 63+75 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 57+87.5 - STA. A 58+00 RT
STA. A 59+25 - STA. A 59+37.5 LT
STA. A 60+62.5 - STA. A 60+81 RT
STA. A 61+23 - STA. A 61+37.5 RT
STA. A 63+62.5 - STA. A 63+75 LT



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 46

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_70.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 70 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 63+75 - STA. A 69+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 63+75 - STA. A 69+75 (SOLID LT & RT)

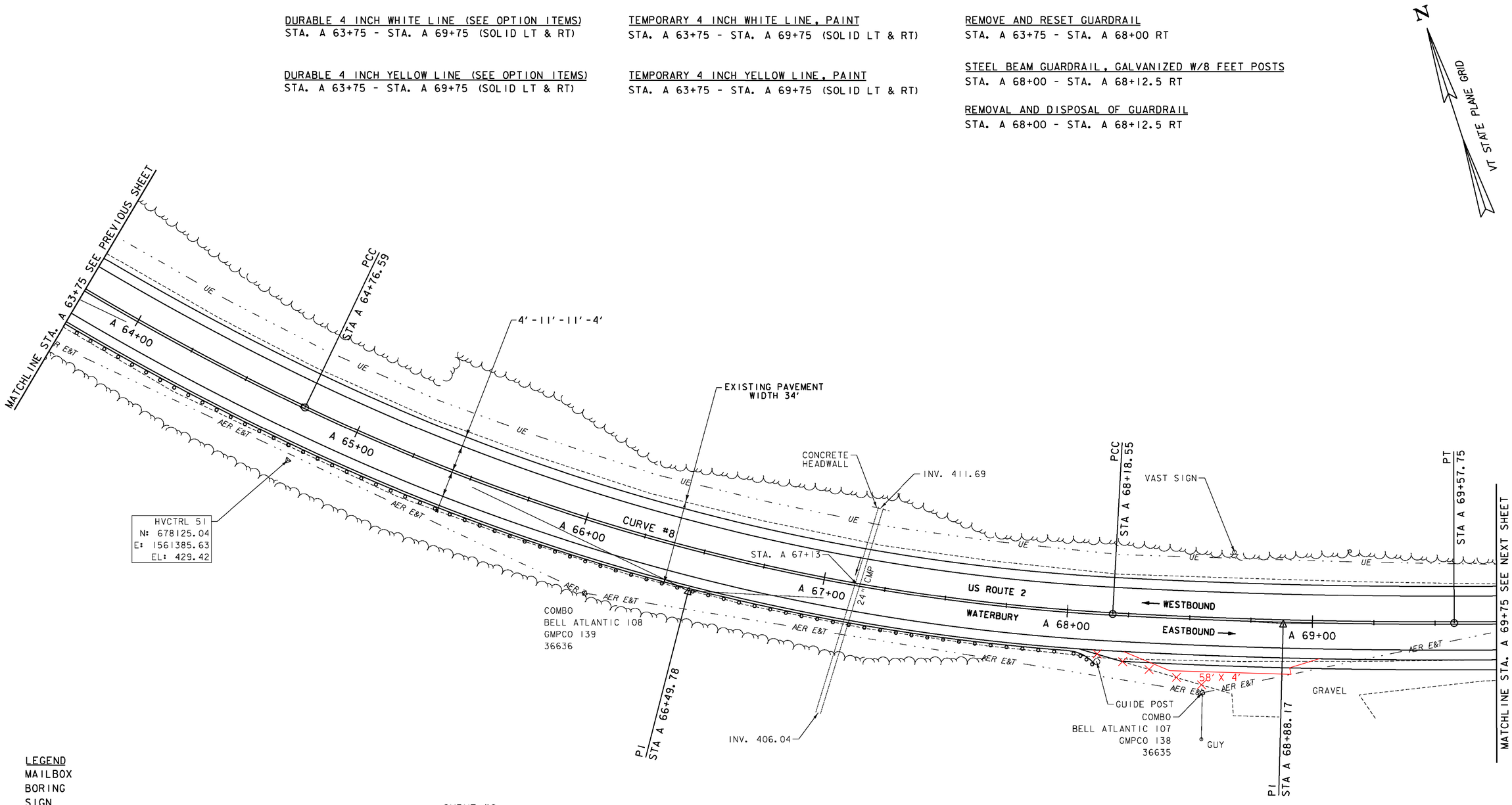
TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 63+75 - STA. A 69+75 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 63+75 - STA. A 69+75 (SOLID LT & RT)

REMOVE AND RESET GUARDRAIL
STA. A 63+75 - STA. A 68+00 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 68+00 - STA. A 68+12.5 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 68+00 - STA. A 68+12.5 RT



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

CURVE #8
DELTA = 36°37'33"
D = 5°00'14"(1) D = 6°32'53"(2) D = 2°23'32"(3)
R = 1145.00' (1) R = 875.00' (2) R = 2395.00' (3)
T = 338.42' (1) T = 382.61' (2)
L = 217.91' (1) L = 341.96' (2) L = 139.20' (3)
E = 48.96'
BANKING 0.071 FT/FT, 0.078 FT/FT, 0.044 FT/FT
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 47

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_71.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 71 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 69+75 - STA. A 75+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 69+75 - STA. A 75+75 (SOLID LT & RT)

STONE FILL, TYPE I
STA. A 71+00 - STA. A 73+73 RT

GEOTEXTILE UNDER STONE FILL
STA. A 71+00 - STA. A 73+73 RT

GEOTEXTILE FOR SILT FENCE
STA. A 71+00 - STA. A 73+73 RT

GRUBBING MATERIAL
STA. A 71+00 - STA. A 73+73 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 69+75 - STA. A 75+75 (SOLID LT & RT)

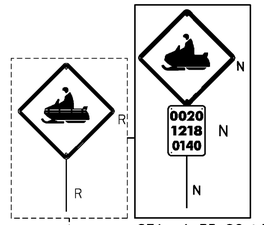
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 69+75 - STA. A 75+75 (SOLID LT & RT)

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 70+34 - STA. A 74+35 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 70+30 - STA. A 74+36.25 RT

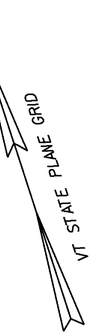
REMOVING SIGNS
AS SHOWN - 2

REHAB, DROP INLET, CATCH BASINS, OR MANHOLES, CLASS I
STA. A 73+00 LT

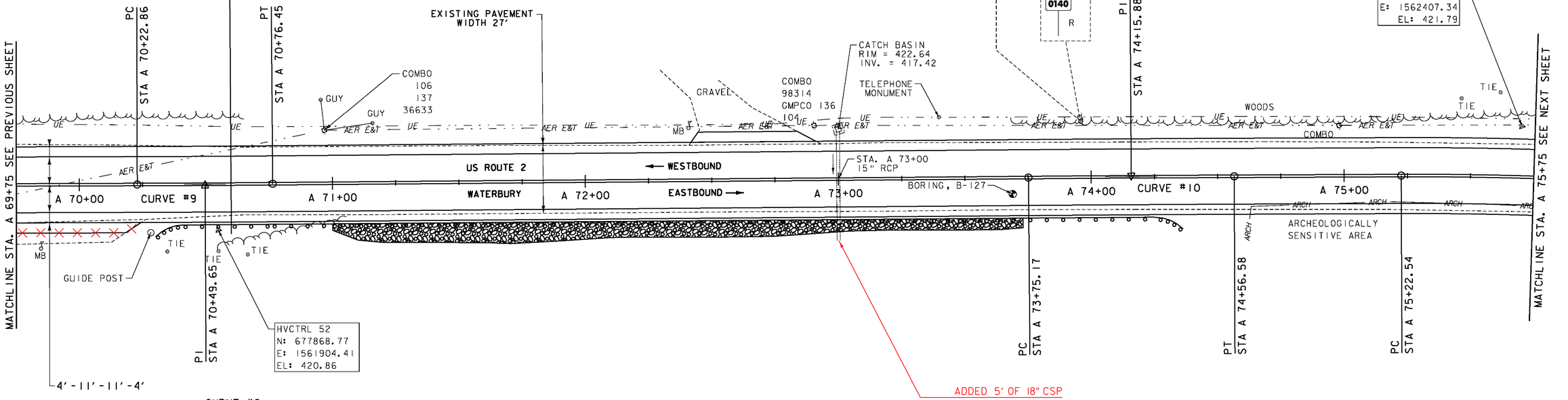


STA. A 73+96 LT

CURVE #10
DELTA = 0°14'00"
D = 0°17'11"
R = 20000.00'
T = 40.70'
L = 81.40'
E = 0.04'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION



STOP RECLAIMED STABILIZED BASE
RESUME RECLAIMED STABILIZED BASE
(CONCRETE SLAB REMOVAL)
STA. A 70+60 = MM 1.337



CURVE #9
DELTA = 0°18'25"
D = 0°34'23"
R = 10000.00'
T = 26.80'
L = 53.59'
E = 0.04'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 48

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_72.i
PLOT DATE: 04/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 72 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 75+75 - STA. A 81+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 75+75 - STA. A 78+25 (SOLID LT & RT)
STA. A 78+25 - STA. A 81+50 (SOLID LT, DASHED RT)

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 77+82.5 - STA. A 79+32.5 RT
STA. A 79+10 - STA. A 79+35 LT
STA. A 79+57.5 - STA. A 81+50 RT
STA. A 79+60 - STA. A 81+50 LT

STEEL BEAM GUARDRAIL, GALVANIZED/NESTED W/8 FEET POSTS
STA. A 79+32.5 - STA. A 79+57.5 RT
STA. A 79+35 - STA. A 79+60 LT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 75+75 - STA. A 81+50 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 75+75 - STA. A 78+25 (SOLID LT & RT)
STA. A 78+25 - STA. A 81+50 (SOLID LT, DASHED RT)

STONE FILL, TYPE I
STA. A 78+05 - STA. A 78+25 RT
STA. A 78+32 - STA. A 79+65 RT
STA. A 79+20 - STA. A 81+50 LT
STA. A 81+20 - STA. A 81+50 RT

GEOTEXTILE UNDER STONE FILL
STA. A 78+05 - STA. A 78+25 RT
STA. A 78+32 - STA. A 79+65 RT
STA. A 79+20 - STA. A 81+50 LT
STA. A 81+20 - STA. A 81+50 RT

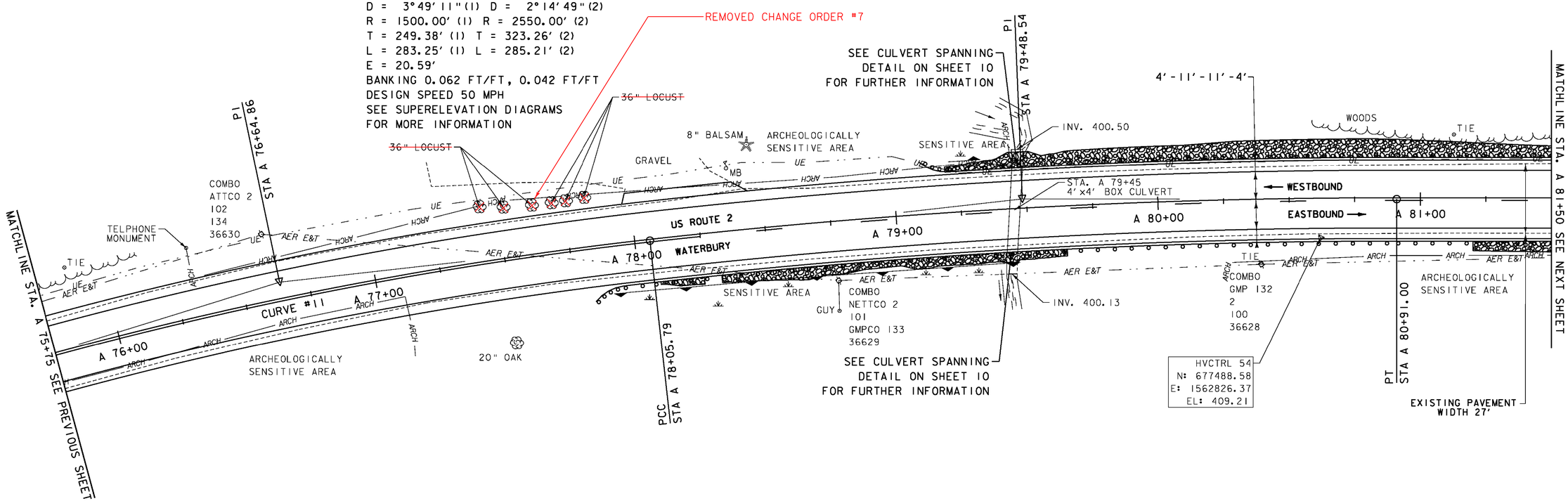
GEOTEXTILE FOR SILT FENCE
STA. A 78+05 - STA. A 78+25 RT
STA. A 78+32 - STA. A 79+65 RT
STA. A 79+20 - STA. A 81+50 LT
STA. A 81+20 - STA. A 81+50 RT

GRUBBING MATERIAL
STA. A 78+05 - STA. A 78+25 RT
STA. A 78+32 - STA. A 79+65 RT
STA. A 79+20 - STA. A 81+50 LT
STA. A 81+20 - STA. A 81+50 RT

N
VT STATE PLANE GRID

CURVE #11
DELTA = 17°13'40"
D = 3°49'11"(1) D = 2°14'49"(2)
R = 1500.00' (1) R = 2550.00' (2)
T = 249.38' (1) T = 323.26' (2)
L = 283.25' (1) L = 285.21' (2)
E = 20.59'
BANKING 0.062 FT/FT, 0.042 FT/FT
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

REMOVED CHANGE ORDER #7



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

ENVIRONMENTALLY SENSITIVE LOCATIONS:

NO.	LIMITS	POS.	TYPE
2.	STA. A 78+89 - STA. A 79+46	RT	-
3.	STA. A 79+21 - STA. A 79+33	LT	-

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 49

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709 (1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_73.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 73 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 81+50 - STA. A 87+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 81+50 - STA. A 86+00 (SOLID LT, DASHED RT)
STA. A 86+00 - STA. A 87+50 (DASHED)

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 81+50 - STA. A 83+35 LT
STA. A 81+50 - STA. A 84+38.75 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 81+50 - STA. A 87+50 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 81+50 - STA. A 86+00 (SOLID LT, DASHED RT)
STA. A 86+00 - STA. A 87+50 (DASHED)

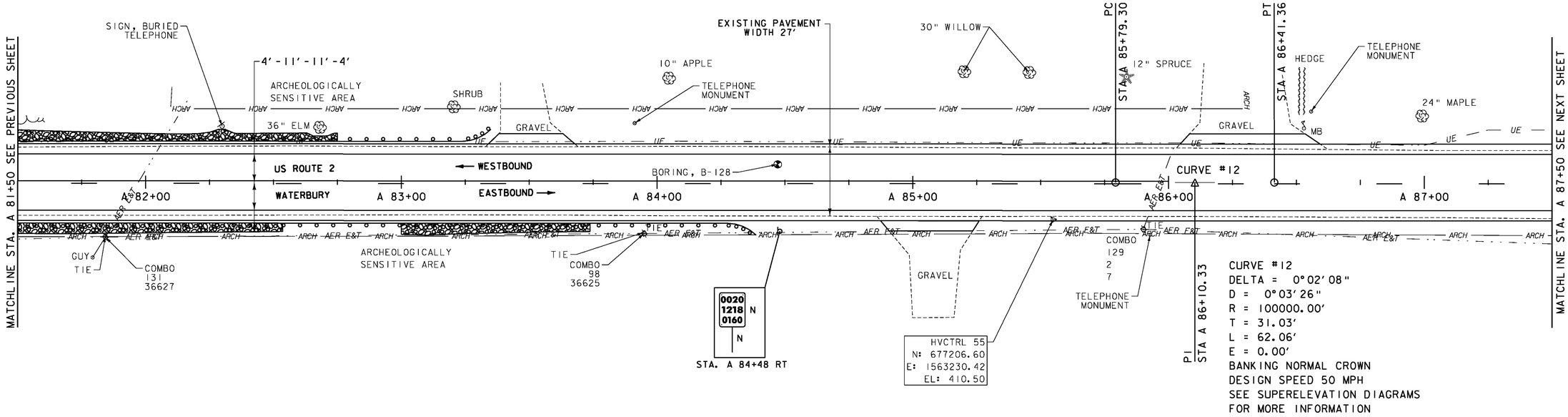
STONE FILL, TYPE I
STA. A 81+50 - STA. A 82+75 LT
STA. A 81+50 - STA. A 82+54 RT
STA. A 83+00 - STA. A 83+74 RT

GEOTEXTILE UNDER STONE FILL
STA. A 81+50 - STA. A 82+75 LT
STA. A 81+50 - STA. A 82+54 RT
STA. A 83+00 - STA. A 83+74 RT

GEOTEXTILE FOR SILT FENCE
STA. A 81+50 - STA. A 82+75 LT
STA. A 81+50 - STA. A 82+54 RT
STA. A 83+00 - STA. A 83+74 RT

GRUBBING MATERIAL
STA. A 81+50 - STA. A 82+75 LT
STA. A 81+50 - STA. A 82+54 RT
STA. A 83+00 - STA. A 83+74 RT

N
VT STATE PLANE GRID



CURVE #12
DELTA = 0°02'08"
D = 0°03'26"
R = 100000.00'
T = 31.03'
L = 62.06'
E = 0.00'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 50

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07c172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07c172_74.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 74 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 87+50 - STA. A 93+25 (SOLID LT & RT)

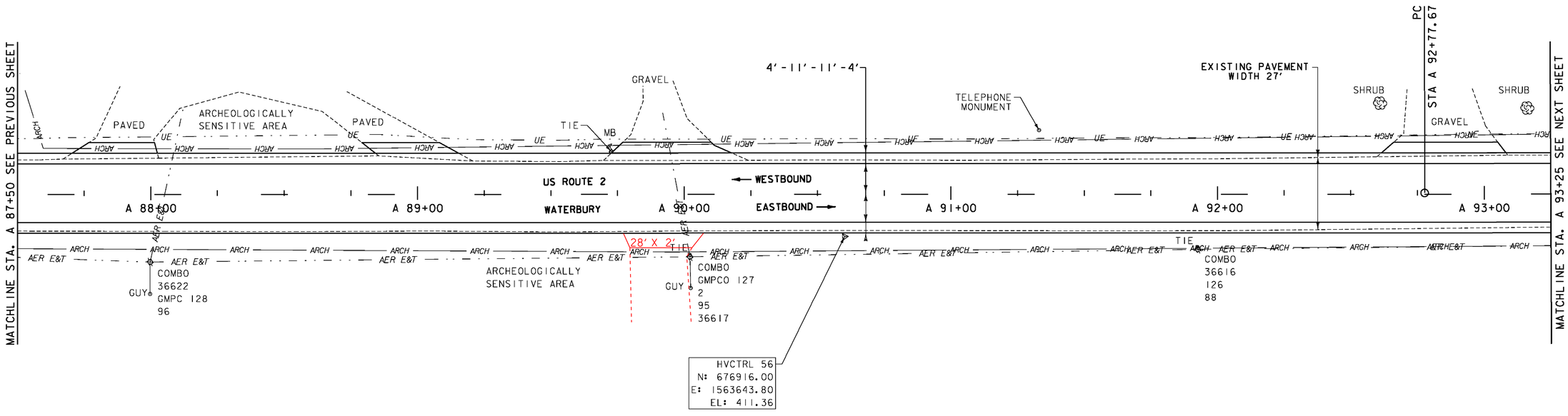
DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 87+50 - STA. A 93+25 (DASHED)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 87+50 - STA. A 93+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 87+50 - STA. A 93+25 (DASHED)

RELOCATE MAILBOX, SINGLE SUPPORT
STA. A 89+73 LT

N
VT STATE PLANE GRID



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 51

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_75.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 75 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 93+25 - STA. A 99+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 93+25 - STA. A 97+25 (DASHED)
STA. A 97+25 - STA. A 99+25 (DASHED LT, SOLID RT)

RELOCATE MAILBOX, SINGLE SUPPORT
STA. A 98+69 LT

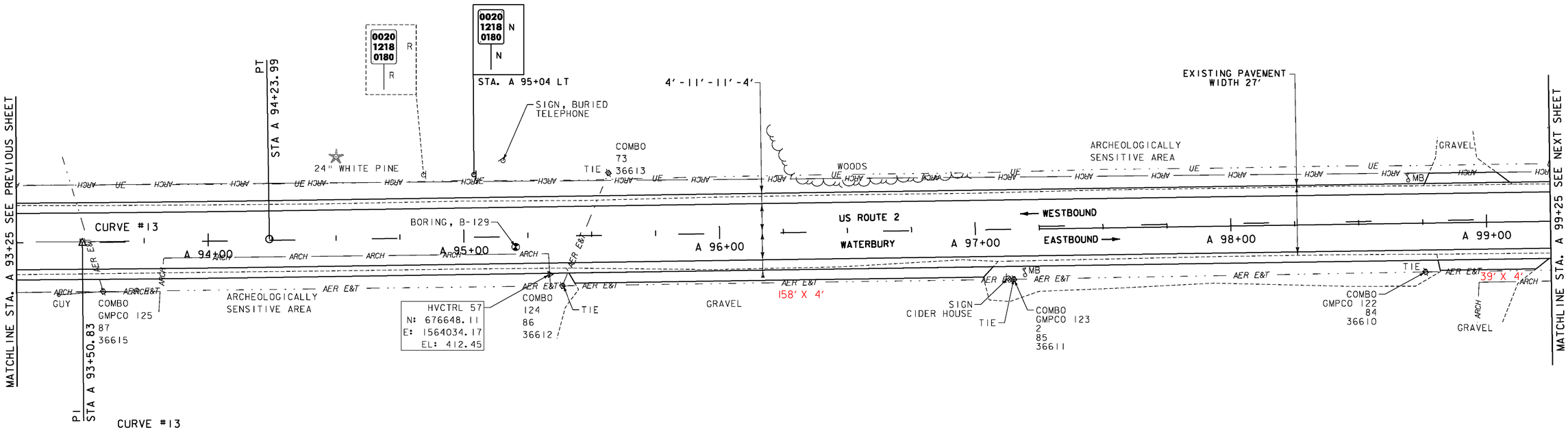
TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 93+25 - STA. A 99+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 93+25 - STA. A 97+25 (DASHED)
STA. A 97+25 - STA. A 99+25 (DASHED LT, SOLID RT)

REMOVING SIGNS
AS SHOWN - 1

THINNING AND TRIMMING FOR SIGNS
STA. A 95+04 LT

N
VT STATE PLANE GRID



CURVE #13
DELTA = 0°50'18"
D = 0°34'23"
R = 10000.00'
T = 73.16'
L = 146.32'
E = 0.27'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 52

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_76.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 76 OF 217

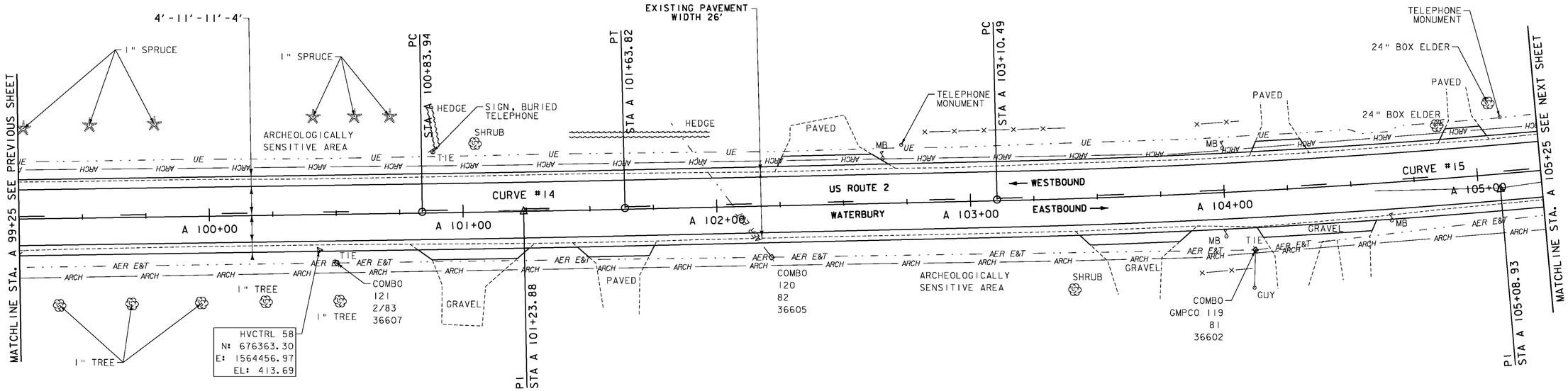
DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 99+25 - STA. A 105+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 99+25 - STA. A 105+25 (DASHED LT, SOLID RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 99+25 - STA. A 105+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 99+25 - STA. A 105+25 (DASHED LT, SOLID RT)

RELOCATE MAILBOX, SINGLE SUPPORT
STA. A 102+66 LT
STA. A 104+00 LT
STA. A 104+00 RT
STA. A 104+65 RT



CURVE #14
DELTA = 0°27'28"
D = 0°34'23"
R = 10000.00'
T = 39.94'
L = 79.89'
E = 0.08'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

CURVE #15
DELTA = 6°59'17"
D = 1°45'47"
R = 3250.00'
T = 198.44'
L = 396.39'
E = 6.05'
BANKING 0.034 FT/FT
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 53

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_77.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 77 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 105+25 - STA. A 111+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 105+25 - STA. A 111+25 (SOLID LT & RT)

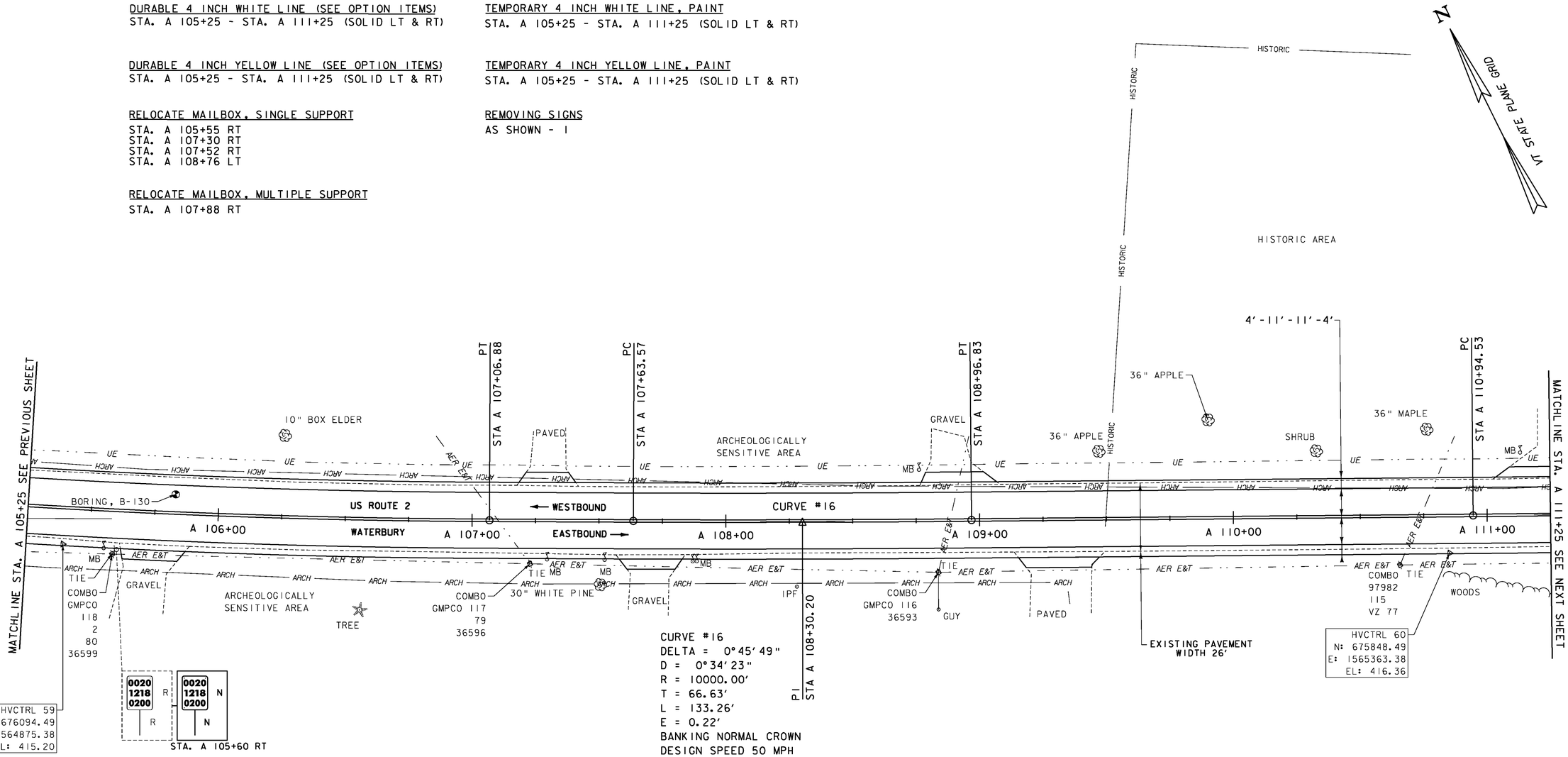
RELOCATE MAILBOX, SINGLE SUPPORT
STA. A 105+55 RT
STA. A 107+30 RT
STA. A 107+52 RT
STA. A 108+76 LT

RELOCATE MAILBOX, MULTIPLE SUPPORT
STA. A 107+88 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 105+25 - STA. A 111+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 105+25 - STA. A 111+25 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 1



CURVE #16
DELTA = 0°45'49"
D = 0°34'23"
R = 10000.00'
T = 66.63'
L = 133.26'
E = 0.22'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 54

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_78.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 78 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 111+25 - STA. A 117+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 111+25 - STA. A 117+25 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 111+25 - STA. A 117+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 111+25 - STA. A 117+25 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 1

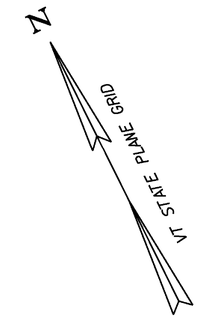
THINNING AND TRIMMING FOR SIGNS
STA. A 116+16 LT

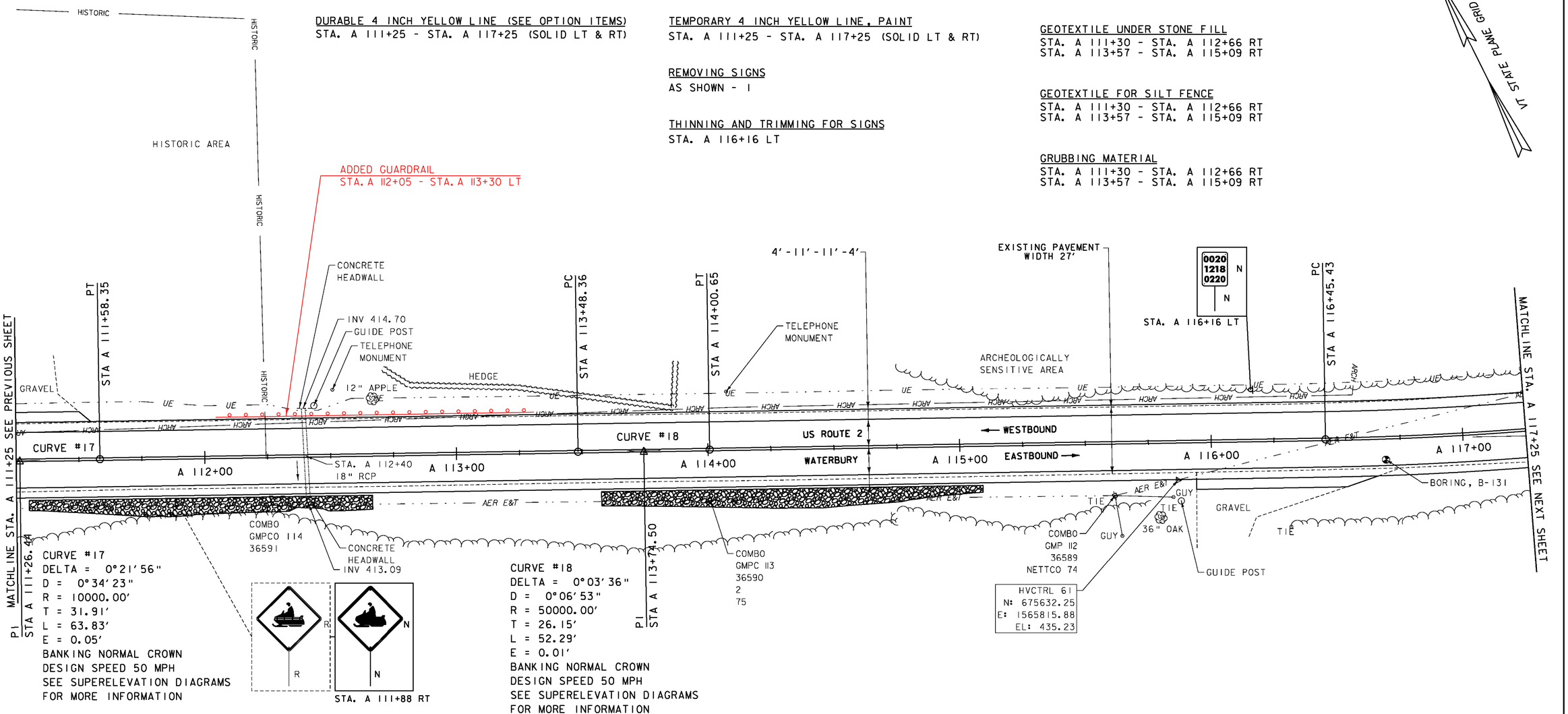
STONE FILL, TYPE I
STA. A 111+30 - STA. A 112+66 RT
STA. A 113+57 - STA. A 115+09 RT

GEOTEXTILE UNDER STONE FILL
STA. A 111+30 - STA. A 112+66 RT
STA. A 113+57 - STA. A 115+09 RT

GEOTEXTILE FOR SILT FENCE
STA. A 111+30 - STA. A 112+66 RT
STA. A 113+57 - STA. A 115+09 RT

GRUBBING MATERIAL
STA. A 111+30 - STA. A 112+66 RT
STA. A 113+57 - STA. A 115+09 RT





CURVE #17
DELTA = 0°21'56"
D = 0°34'23"
R = 10000.00'
T = 31.91'
L = 63.83'
E = 0.05'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

CURVE #18
DELTA = 0°03'36"
D = 0°06'53"
R = 50000.00'
T = 26.15'
L = 52.29'
E = 0.01'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 55

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709 (1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_79.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 79 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 117+25 - STA. A 123+25 (SOLID LT & RT)

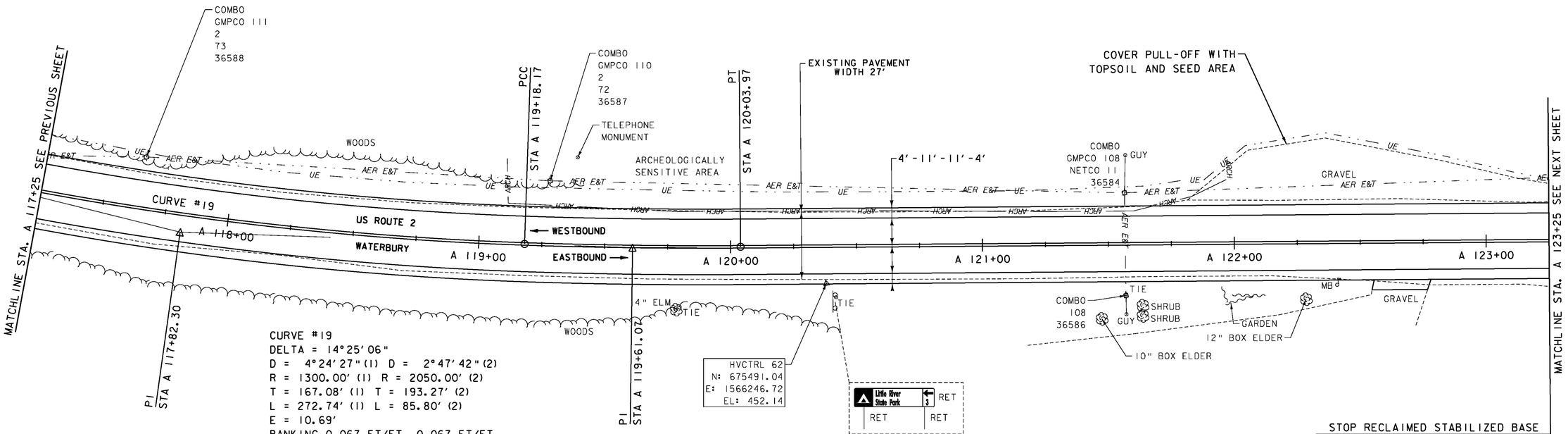
DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 117+25 - STA. A 123+25 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 117+25 - STA. A 123+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 117+25 - STA. A 123+25 (SOLID LT & RT)

RELOCATE MAILBOX, SINGLE SUPPORT
STA. A 122+41 RT

N
VT STATE PLANE GRID



CURVE #19
DELTA = 14°25'06"
D = 4°24'27" (1) D = 2°47'42" (2)
R = 1300.00' (1) R = 2050.00' (2)
T = 167.08' (1) T = 193.27' (2)
L = 272.74' (1) L = 85.80' (2)
E = 10.69'
BANKING 0.067 FT/FT, 0.067 FT/FT
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 56

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_80.i
PLOT DATE: 04/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 80 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 123+25 - STA. A 129+50 (SOLID LT & RT)
(WITH EDGE LINE BREAKS AT TH#7)
STA. A 127+90 (EDGE LINES AT TH#7)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 123+25 - STA. A 129+50 (SOLID LT & RT)
(WITH CENTERLINE BREAKS AT TH#7)
STA. A 127+90 (CENTERLINE AT TH#7)

DURABLE 24 INCH STOP BAR (SEE OPTIONS ITEMS)
STA. A 127+61 - STA. A 127+91 LT

DURABLE LETTER OR SYMBOL (SEE OPTIONS ITEMS)
STA. A 127+80 LT "STOP"

REMOVING SIGNS
AS SHOWN - 6

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 123+25 - STA. A 129+50 (SOLID LT & RT)
(WITH EDGE LINE BREAKS AT TH#7)
STA. A 127+90 (EDGE LINES AT TH#7)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 123+25 - STA. A 129+50 (SOLID LT & RT)
(WITH CENTERLINE BREAKS AT TH#7)
STA. A 127+90 (CENTERLINE AT TH#7)

TEMPORARY 24 INCH STOP BAR, PAINT
STA. A 127+61 - STA. A 127+91 LT

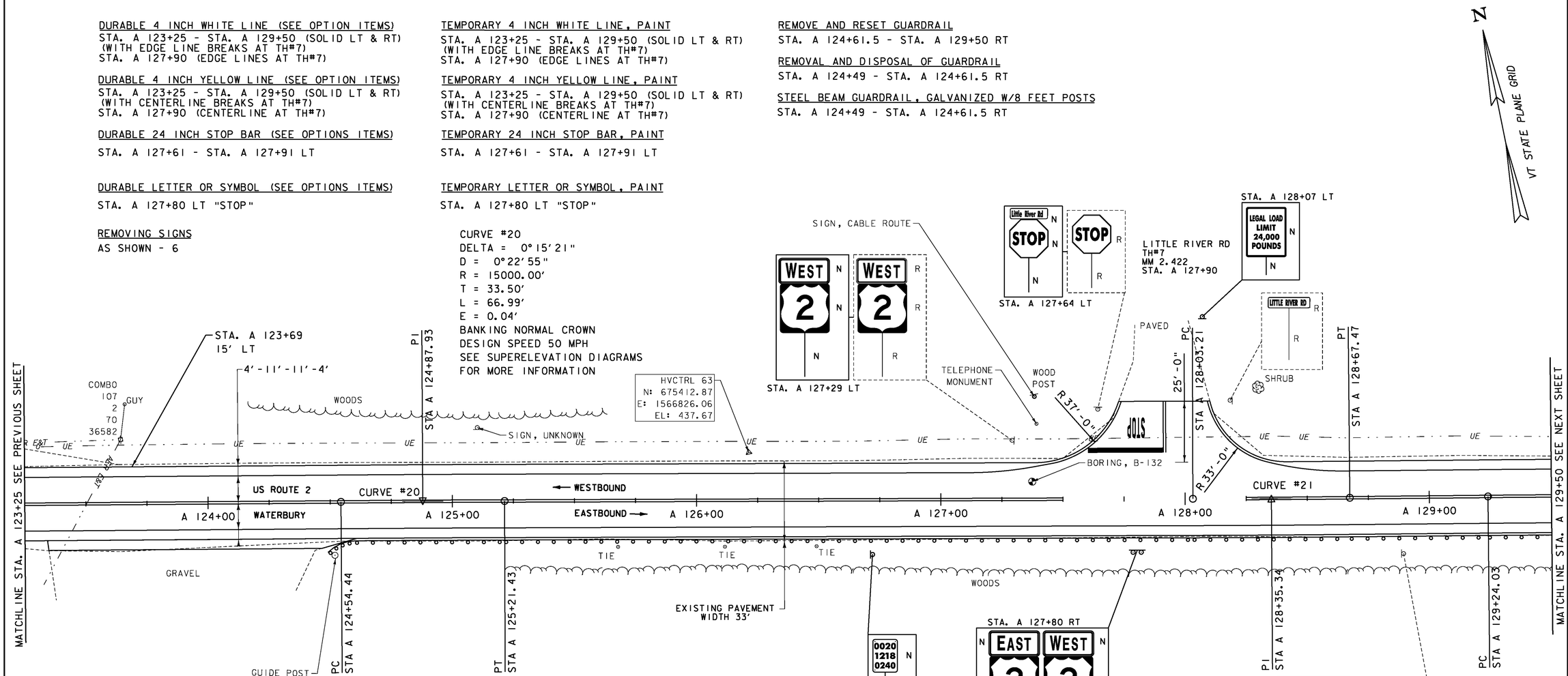
TEMPORARY LETTER OR SYMBOL, PAINT
STA. A 127+80 LT "STOP"

CURVE #20
DELTA = 0°15'21"
D = 0°22'55"
R = 15000.00'
T = 33.50'
L = 66.99'
E = 0.04'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

REMOVE AND RESET GUARDRAIL
STA. A 124+61.5 - STA. A 129+50 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 124+49 - STA. A 124+61.5 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 124+49 - STA. A 124+61.5 RT



CURVE #21
DELTA = 0°22'05"
D = 0°34'23"
R = 10000.00'
T = 32.13'
L = 64.26'
E = 0.05'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 57

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_81.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 81 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 129+50 - STA. A 134+75 (SOLID LT & RT)

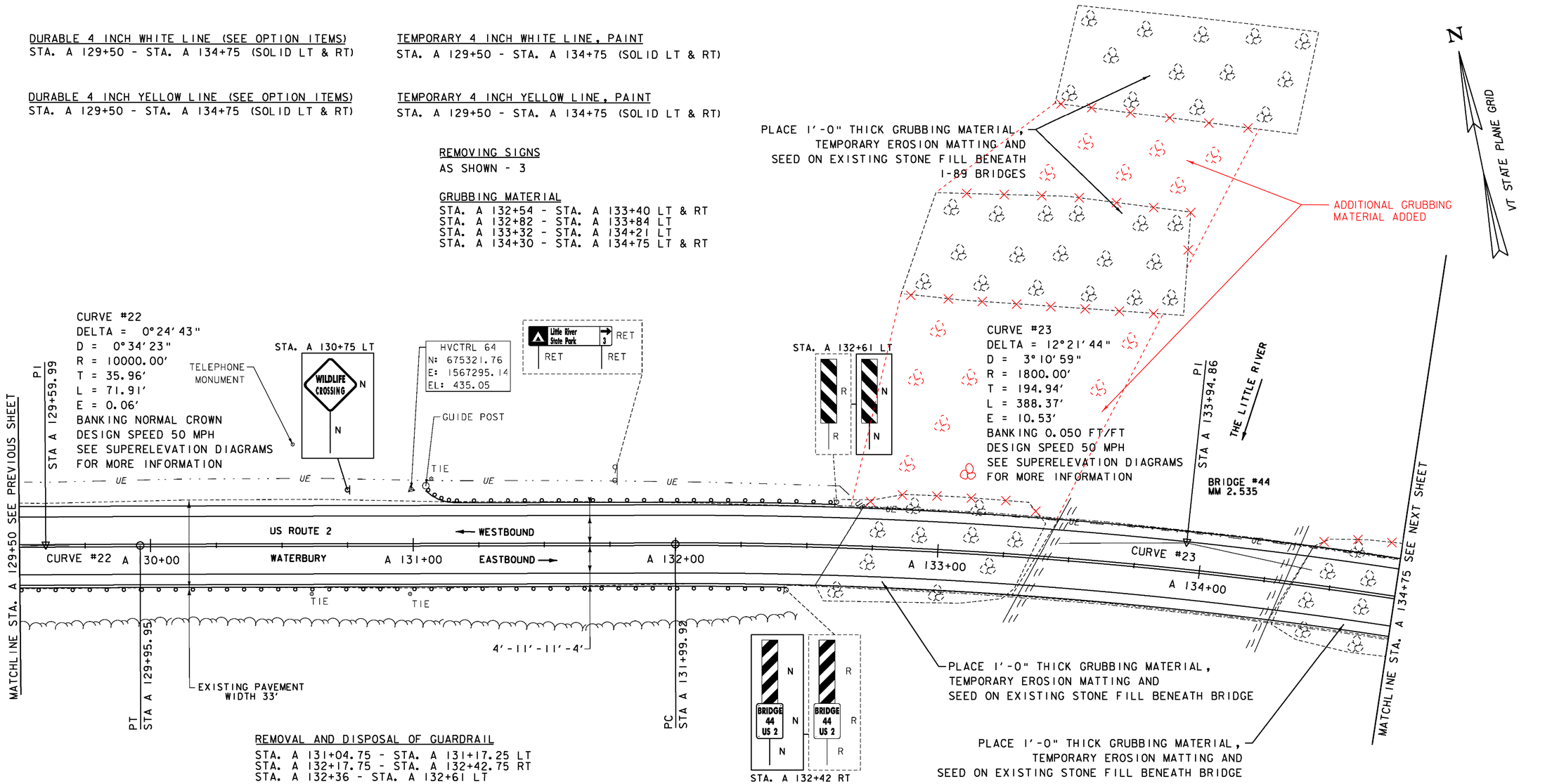
DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 129+50 - STA. A 134+75 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 129+50 - STA. A 134+75 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 129+50 - STA. A 134+75 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 3

GRUBBING MATERIAL
STA. A 132+54 - STA. A 133+40 LT & RT
STA. A 132+82 - STA. A 133+84 LT
STA. A 133+32 - STA. A 134+21 LT
STA. A 134+30 - STA. A 134+75 LT & RT



REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 131+04.75 - STA. A 131+17.25 LT
STA. A 132+17.75 - STA. A 132+42.75 RT
STA. A 132+36 - STA. A 132+61 LT

REMOVE AND RESET GUARDRAIL
STA. A 129+50 - STA. A 132+17.75 RT
STA. A 131+17.25 - STA. A 132+36 LT

HD STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 132+17.75 - STA. A 132+42.75 RT
STA. A 132+36 - STA. A 132+61 LT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 131+04.75 - STA. A 131+17.25 LT

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 58

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709 (1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_82.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 82 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 134+75 - STA. A 140+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 134+75 - STA. A 140+50 (SOLID LT & RT)

GRUBBING MATERIAL
STA. A 134+75 - STA. A 135+11 LT & RT

REMOVING SIGNS
AS SHOWN - 4

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 134+75 - STA. A 140+50 (SOLID LT & RT)

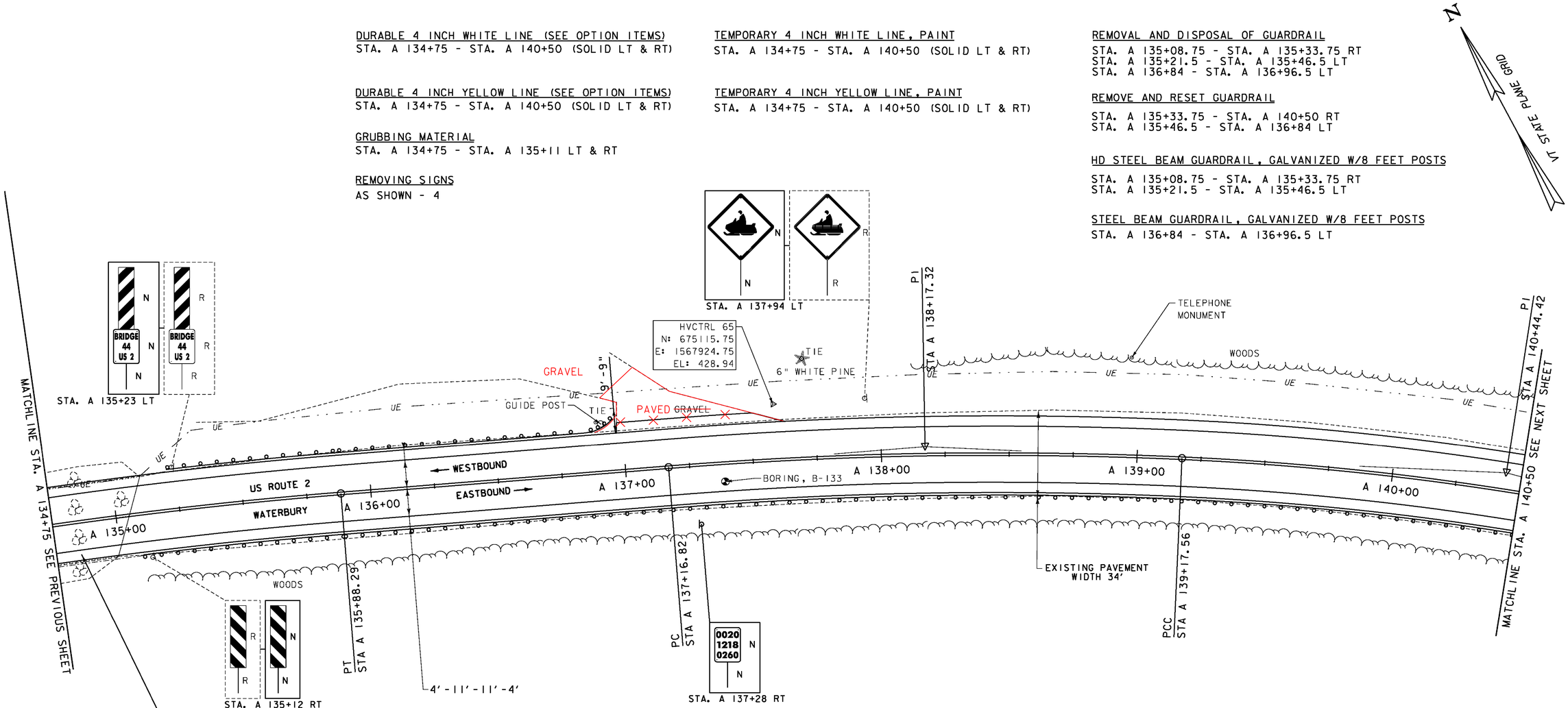
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 134+75 - STA. A 140+50 (SOLID LT & RT)

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 135+08.75 - STA. A 135+33.75 RT
STA. A 135+21.5 - STA. A 135+46.5 LT
STA. A 136+84 - STA. A 136+96.5 LT

REMOVE AND RESET GUARDRAIL
STA. A 135+33.75 - STA. A 140+50 RT
STA. A 135+46.5 - STA. A 136+84 LT

HD STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 135+08.75 - STA. A 135+33.75 RT
STA. A 135+21.5 - STA. A 135+46.5 LT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 136+84 - STA. A 136+96.5 LT



PLACE 1'-0" THICK GRUBBING MATERIAL,
TEMPORARY EROSION MATTING AND
SEED ON EXISTING STONE FILL BENEATH BRIDGE

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 59

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_83.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 83 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 140+50 - STA. A 146+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 140+50 - STA. A 146+50 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 140+50 - STA. A 146+50 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 140+50 - STA. A 146+50 (SOLID LT & RT)

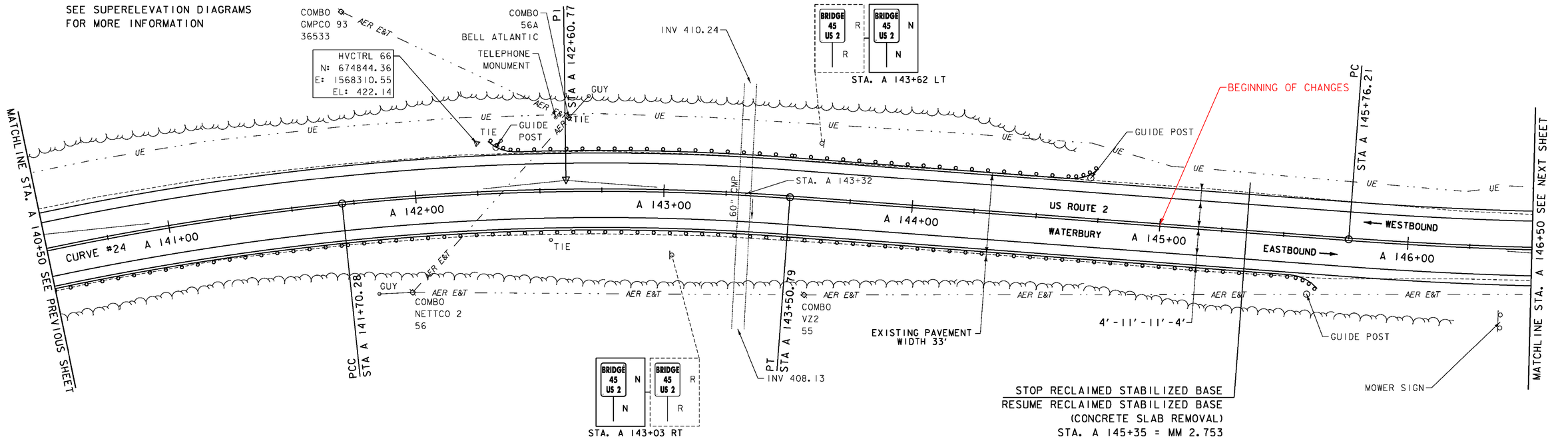
REMOVING SIGNS
AS SHOWN - 2

REMOVE AND RESET GUARDRAIL
STA. A 140+50 - STA. A 145+52.5 RT
STA. A 142+42.5 - STA. A 144+61.25 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 142+30 - STA. A 142+42.5 LT
STA. A 144+61.25 - STA. A 144+73.75 LT
STA. A 145+52.5 - STA. A 145+65 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 142+30 - STA. A 142+42.5 LT
STA. A 144+61.25 - STA. A 144+73.75 LT
STA. A 145+52.5 - STA. A 145+65 RT

CURVE #24
DELTA = 29°49'33"
D = 3°33'31"(1) D = 4°56'21"(2) D = 5°39'02"(3)
R = 1610.00' (1) R = 1160.00' (2) R = 1014.00' (3)
T = 354.16' (1) T = 294.13' (2)
L = 200.74' (1) L = 252.72' (2) L = 180.51' (3)
E = 38.49'
BANKING 0.059 FT/FT, 0.071 FT/FT, 0.075 FT/FT
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SEE SHEET 85A FOR CHANGES
FROM STA. A 145+00 TO STA. A 151+00

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 60

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_84.i
PLOT DATE: 04/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 84 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 146+50 - STA. A 152+50 (SOLID LT & RT)

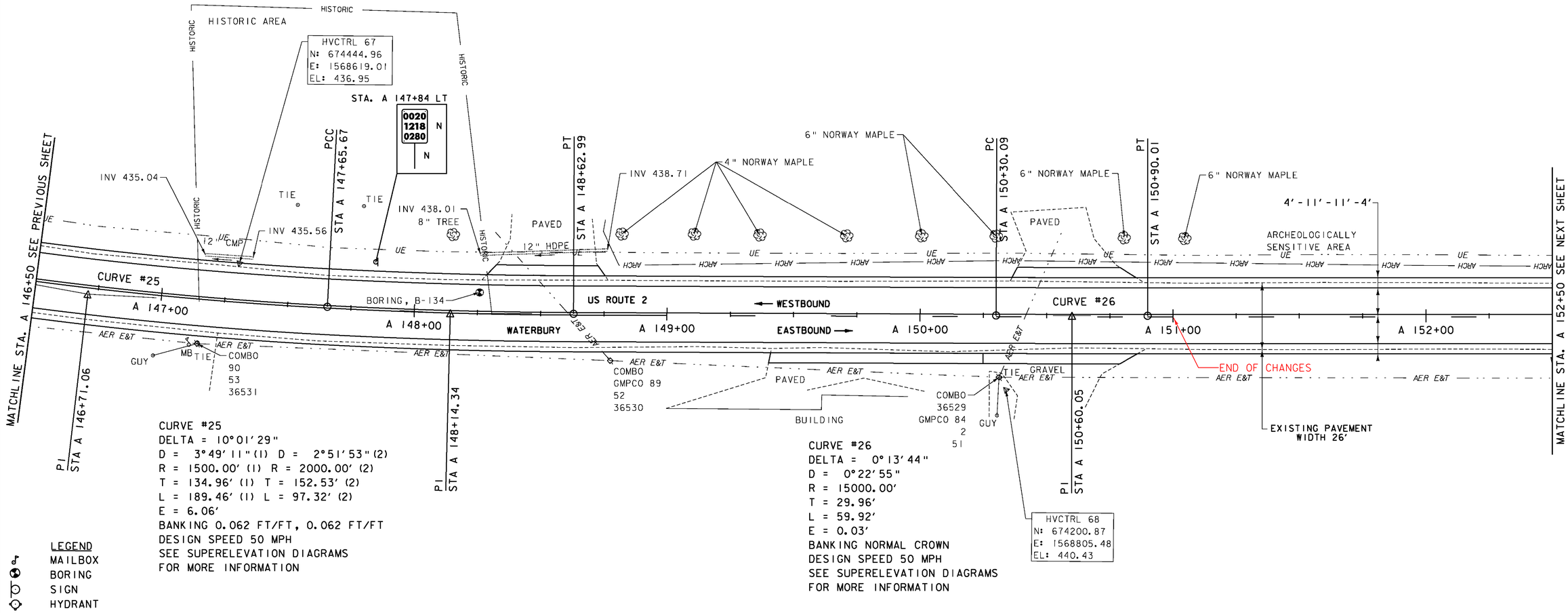
DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 146+50 - STA. A 149+00 (SOLID LT & RT)
STA. A 149+00 - STA. A 152+50 (SOLID LT, DASHED RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 146+50 - STA. A 152+50 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 146+50 - STA. A 149+00 (SOLID LT & RT)
STA. A 149+00 - STA. A 152+50 (SOLID LT, DASHED RT)

RELOCATE MAILBOX, SINGLE SUPPORT
STA. A 147+12 RT

N
VT STATE PLANE GRID



CURVE #25
DELTA = 10°01'29"
D = 3°49'11"(1) D = 2°51'53"(2)
R = 1500.00' (1) R = 2000.00' (2)
T = 134.96' (1) T = 152.53' (2)
L = 189.46' (1) L = 97.32' (2)
E = 6.06'
BANKING 0.062 FT/FT, 0.062 FT/FT
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

CURVE #26
DELTA = 0°13'44"
D = 0°22'55"
R = 15000.00'
T = 29.96'
L = 59.92'
E = 0.03'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

SEE SHEET 85A FOR CHANGES
FROM STA. A 145+00 TO STA. A 151+00

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

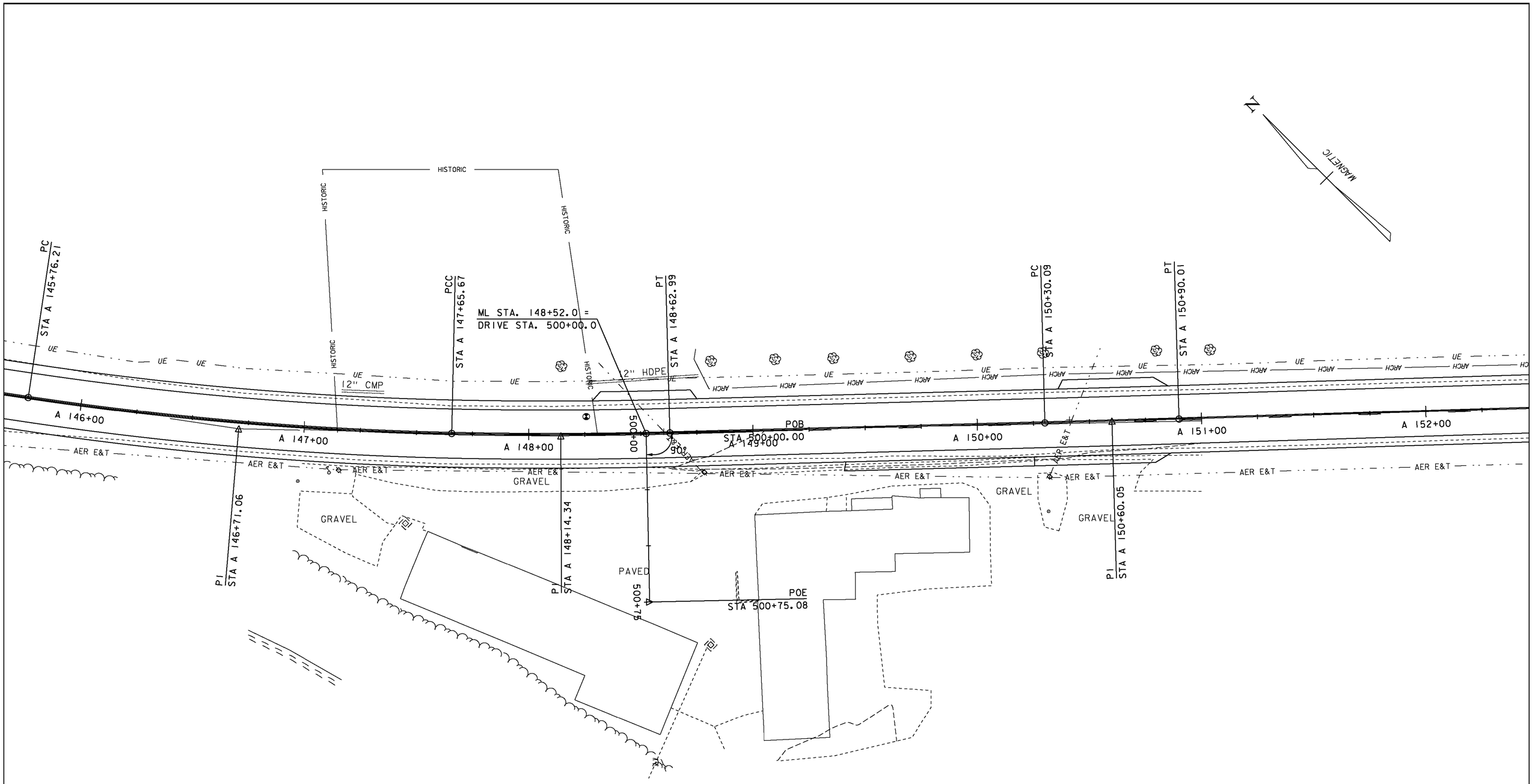
DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 61

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_85.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 85 OF 217



PROJECT NAME:	BOLTON-WATERBURY
PROJECT NUMBER:	STP 2709(1)
FILE NAME: 07cl72.dgn	PLOT DATE: 17-JUL-2014
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: ------	CHECKED BY: ------
------ ------	SHEET 2 OF 12

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 152+50 - STA. A 158+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 152+50 - STA. A 156+50 (SOLID LT, DASHED RT)
STA. A 156+50 - STA. A 157+00 (DASHED RT)
STA. A 157+00 - STA. A 158+50 (DASHED LT, SOLID RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 152+50 - STA. A 158+50 (SOLID LT & RT)

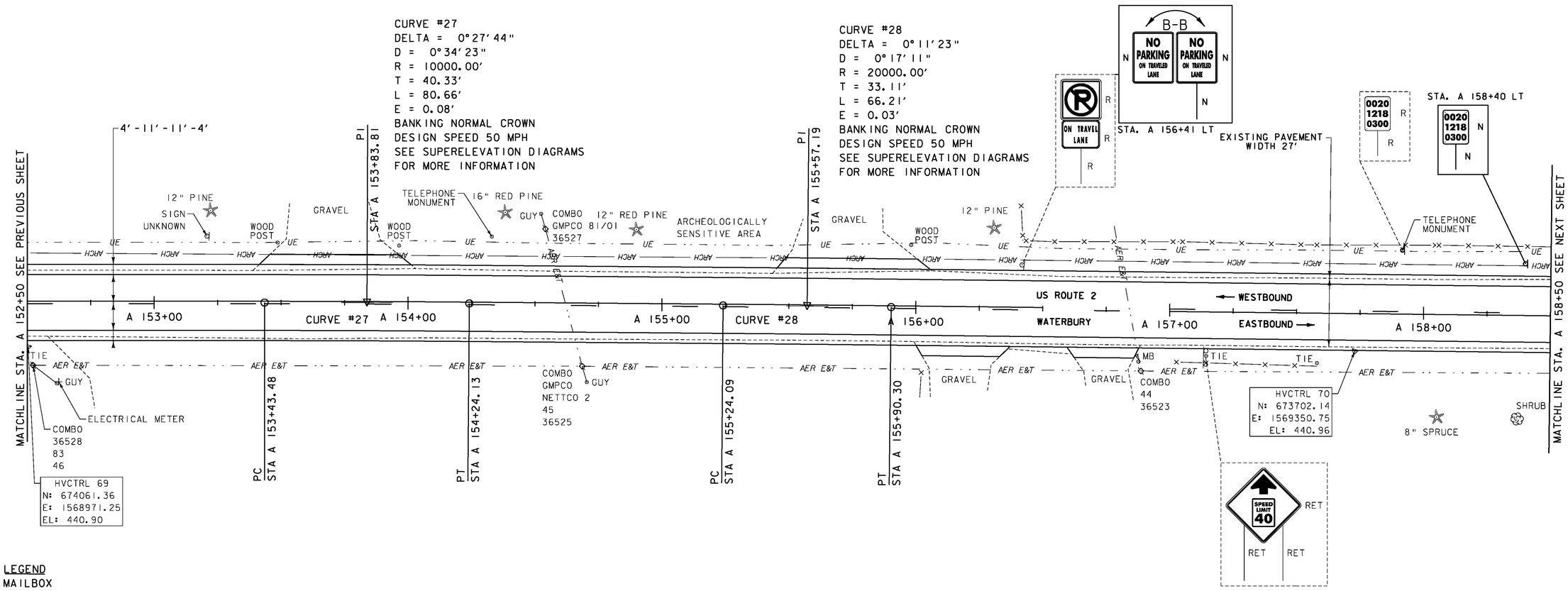
TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 152+50 - STA. A 156+50 (SOLID LT, DASHED RT)
STA. A 156+50 - STA. A 157+00 (DASHED RT)
STA. A 157+00 - STA. A 158+50 (DASHED LT, SOLID RT)

REMOVING SIGNS
AS SHOWN - 3

N
VT STATE PLANE GRID

CURVE #27
DELTA = 0°27'44"
D = 0°34'23"
R = 10000.00'
T = 40.33'
L = 80.66'
E = 0.08'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

CURVE #28
DELTA = 0°11'23"
D = 0°17'11"
R = 20000.00'
T = 33.11'
L = 66.21'
E = 0.03'
BANKING NORMAL CROWN
DESIGN SPEED 50 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 62

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_86.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 86 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 158+50 - STA. A 164+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 158+50 - STA. A 163+25 (DASHED LT, SOLID RT)
STA. A 163+25 - STA. A 164+25 (SOLID LT & RT)

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 158+50 - STA. A 164+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 158+50 - STA. A 163+25 (DASHED LT, SOLID RT)
STA. A 163+25 - STA. A 164+25 (SOLID LT & RT)

STONE FILL, TYPE I
STA. A 163+90 - STA. A 163+98 RT

GEOTEXTILE UNDER STONE FILL
STA. A 163+90 - STA. A 163+98 RT

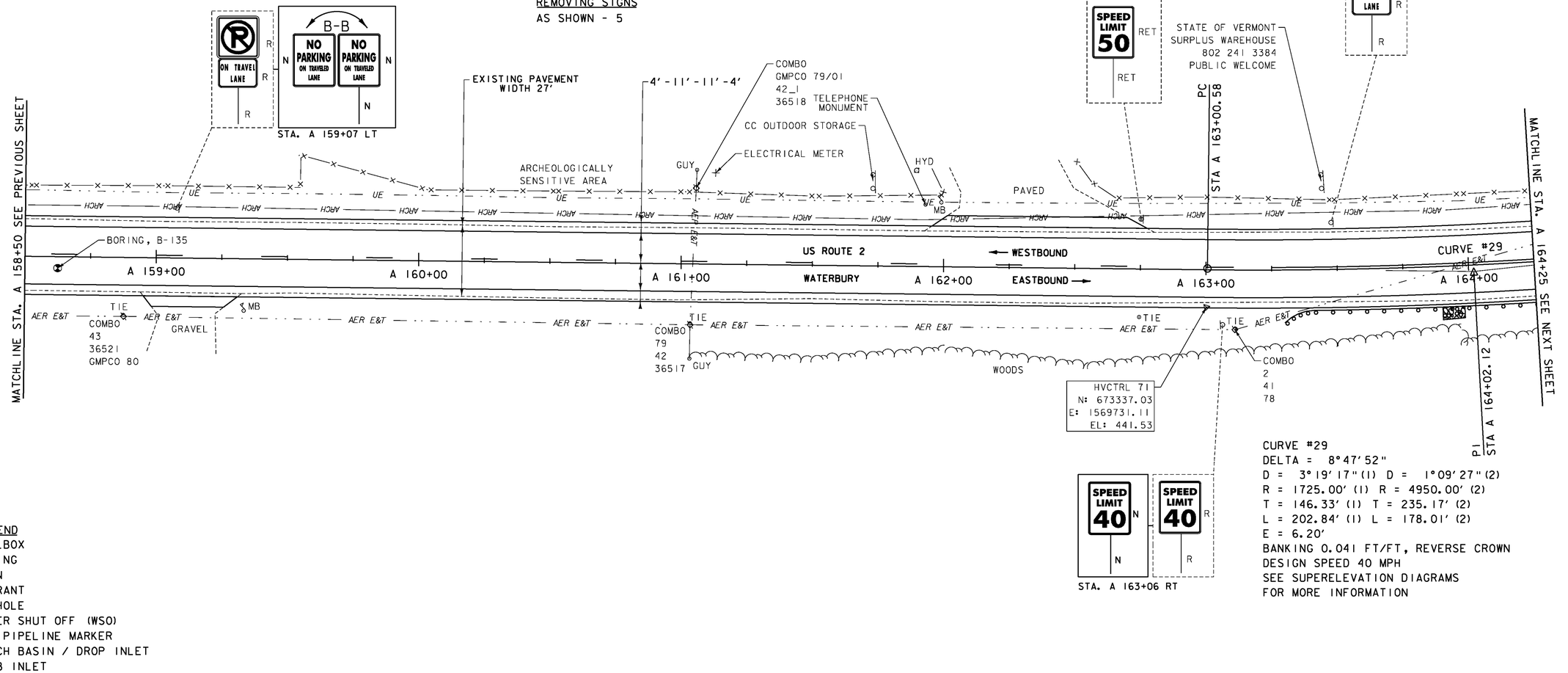
GEOTEXTILE FOR SILT FENCE
STA. A 163+90 - STA. A 163+98 RT

GRUBBING MATERIAL
STA. A 163+90 - STA. A 163+98 RT

REMOVING SIGNS
AS SHOWN - 5

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 163+34 - STA. A 164+25 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 163+30 - STA. A 164+25 RT



CURVE #29
DELTA = 8°47'52"
D = 3°19'17" (1) D = 1°09'27" (2)
R = 1725.00' (1) R = 4950.00' (2)
T = 146.33' (1) T = 235.17' (2)
L = 202.84' (1) L = 178.01' (2)
E = 6.20'
BANKING 0.041 FT/FT, REVERSE CROWN
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 63

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_87.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 87 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 164+25 - STA. A 170+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 164+25 - STA. A 170+25 (SOLID LT & RT)

THINNING AND TRIMMING FOR SIGNS
STA. A 168+96 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 164+25 - STA. A 170+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 164+25 - STA. A 170+25 (SOLID LT & RT)

STONE FILL, TYPE I
STA. A 164+35 - STA. A 165+22 RT
STA. A 166+30 - STA. A 166+70 RT
STA. A 169+54 - STA. A 170+25 RT

GEOTEXTILE UNDER STONE FILL
STA. A 164+35 - STA. A 165+22 RT
STA. A 166+30 - STA. A 166+70 RT
STA. A 169+54 - STA. A 170+25 RT

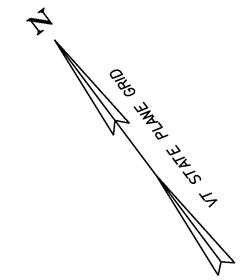
REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 164+25 - STA. A 170+25 RT

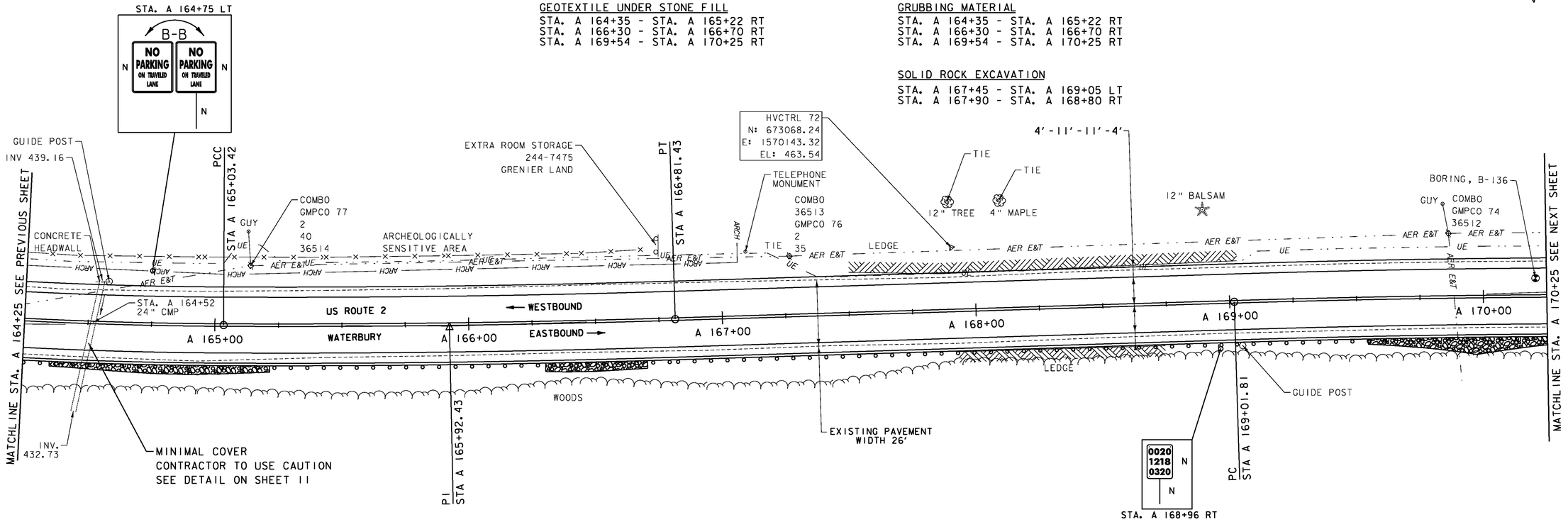
STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 164+25 - STA. A 170+25 RT

GEOTEXTILE FOR SILT FENCE
STA. A 164+35 - STA. A 165+22 RT
STA. A 166+30 - STA. A 166+70 RT
STA. A 169+54 - STA. A 170+25 RT

GRUBBING MATERIAL
STA. A 164+35 - STA. A 165+22 RT
STA. A 166+30 - STA. A 166+70 RT
STA. A 169+54 - STA. A 170+25 RT

SOLID ROCK EXCAVATION
STA. A 167+45 - STA. A 169+05 LT
STA. A 167+90 - STA. A 168+80 RT





LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 64

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_88.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 88 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 170+25 - STA. A 176+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 170+25 - STA. A 176+25 (SOLID LT & RT)

THINNING AND TRIMMING FOR SIGNS
STA. A 170+91 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 170+25 - STA. A 176+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 170+25 - STA. A 176+25 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 1

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 170+25 - STA. A 175+44 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 170+25 - STA. A 175+48.75 RT

SOLID ROCK EXCAVATION
STA. A 171+60 - STA. A 172+75 LT
STA. A 173+05 - STA. A 173+30 RT

STONE FILL, TYPE I
STA. A 170+25 - STA. A 170+51 RT
STA. A 172+83 - STA. A 172+94 RT
STA. A 173+76 - STA. A 174+40 RT

GEOTEXTILE UNDER STONE FILL
STA. A 170+25 - STA. A 170+51 RT
STA. A 172+83 - STA. A 172+94 RT
STA. A 173+76 - STA. A 174+40 RT

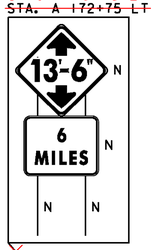
GEOTEXTILE FOR SILT FENCE
STA. A 170+25 - STA. A 170+51 RT
STA. A 172+83 - STA. A 172+94 RT
STA. A 173+76 - STA. A 174+40 RT

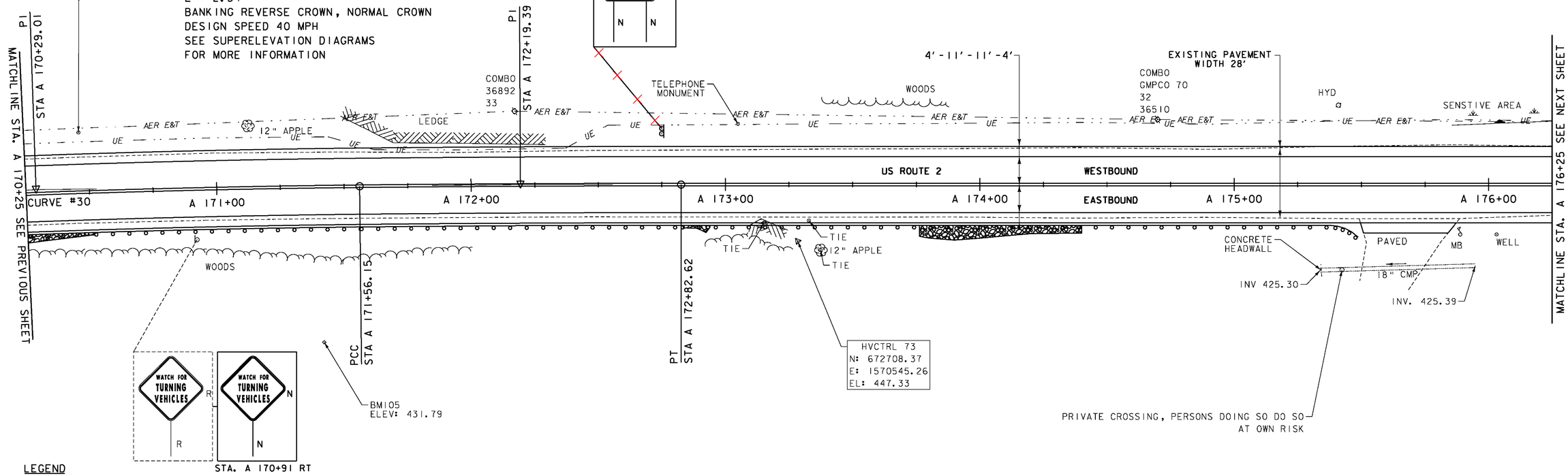
GRUBBING MATERIAL
STA. A 170+25 - STA. A 170+51 RT
STA. A 172+83 - STA. A 172+94 RT
STA. A 173+76 - STA. A 174+40 RT

N
VT STATE PLANE GRID

CURVE #30
DELTA = 3°29'56"
D = 1°08'25"(1) D = 0°28'25"(2)
R = 5025.00' (1) R = 12100.00' (2)
T = 159.81' (1) T = 221.11' (2)
L = 254.34' (1) L = 126.47' (2)
E = 2.54'
BANKING REVERSE CROWN, NORMAL CROWN
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

STA. A 176+75 LT
~~STA. A 172+75 LT~~





LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGE
N = NEW
B-B = BACK TO BACK
—— = EXISTING
—— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

ENVIRONMENTALLY SENSITIVE LOCATIONS:

NO.	LIMITS	POS.	TYPE
4.	STA. A 175+85 - STA. A 176+25	LT	-

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 65

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_89.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 89 OF 217

DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 176+25 - STA. A 182+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 176+25 - STA. A 182+25 (SOLID LT & RT)

STONE FILL, TYPE I
STA. A 176+82 - STA. A 177+38 RT

GEOTEXTILE UNDER STONE FILL
STA. A 176+82 - STA. A 177+38 RT

SOLID ROCK EXCAVATION
STA. A 178+15 - STA. A 178+85 LT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 176+25 - STA. A 182+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 176+25 - STA. A 182+25 (SOLID LT & RT)

GEOTEXTILE FOR SILT FENCE
STA. A 176+82 - STA. A 177+38 RT

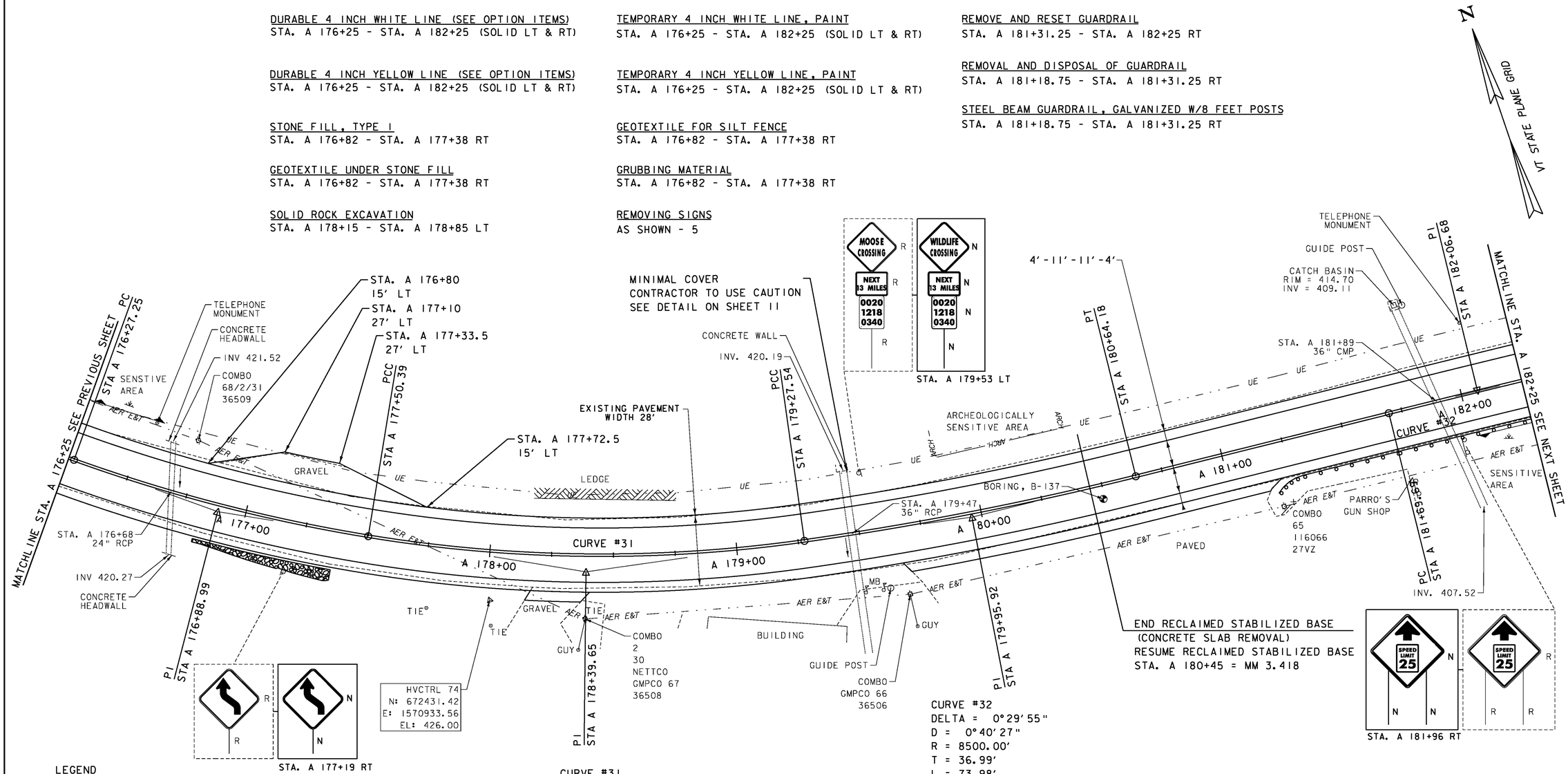
GRUBBING MATERIAL
STA. A 176+82 - STA. A 177+38 RT

REMOVING SIGNS
AS SHOWN - 5

REMOVE AND RESET GUARDRAIL
STA. A 181+31.25 - STA. A 182+25 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 181+18.75 - STA. A 181+31.25 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 181+18.75 - STA. A 181+31.25 RT



LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

CURVE #31
DELTA = 33°48'03"
D = 8°32'20"(1) D = 9°47'39"(2) D = 4°20'38"(3)
R = 671.00' (1) R = 585.00' (2) R = 1319.00' (3)
T = 198.35' (1) T = 250.36' (2)
L = 123.14' (1) L = 177.15' (2) L = 136.64' (3)
E = 28.70'
BANKING 0.076 FT/FT, 0.076 FT/FT, 0.050 FT/FT
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

CURVE #32
DELTA = 0°29'55"
D = 0°40'27"
R = 8500.00'
T = 36.99'
L = 73.98'
E = 0.08'
BANKING NORMAL CROWN
DESIGN SPEED 40 MPH
SEE SUPERELEVATION DIAGRAMS
FOR MORE INFORMATION

ENVIRONMENTALLY SENSITIVE LOCATIONS:

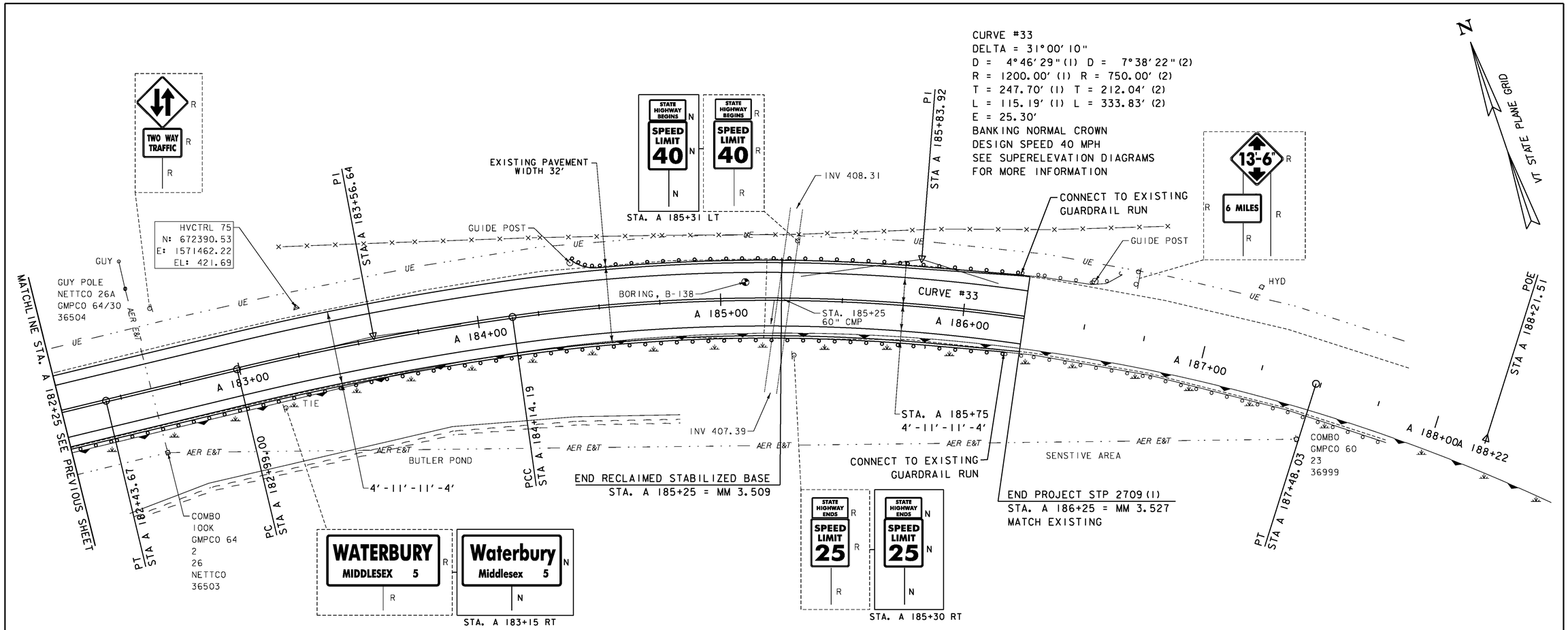
NO.	LIMITS	POS.	TYPE
4.	STA. A 176+25 - STA. A 176+58	LT	-
5.	STA. A 182+02 - STA. A 182+25	RT	-

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 66

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_90.i
PLOT DATE: 04/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 90 OF 217



DURABLE 4 INCH WHITE LINE (SEE OPTION ITEMS)
STA. A 182+25 - STA. A 186+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE (SEE OPTION ITEMS)
STA. A 182+25 - STA. A 186+25 (SOLID LT & RT)

REMOVING SIGNS
AS SHOWN - 9

TEMPORARY 4 INCH WHITE LINE, PAINT
STA. A 182+25 - STA. A 186+25 (SOLID LT & RT)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. A 182+25 - STA. A 186+25 (SOLID LT & RT)

REMOVE AND RESET GUARDRAIL
STA. A 182+25 - STA. A 186+18.75 RT
STA. A 184+52.5 - STA. A 186+21.25 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. A 184+40 - STA. A 184+52.5 LT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. A 184+40 - STA. A 184+52.5 LT

ENVIRONMENTALLY SENSITIVE LOCATIONS:

NO.	LIMITS	POS.	TYPE
5.	STA. A 182+25 - STA. A 186+25	RT	-

LEGEND
- MAILBOX
- BORING
- SIGN
- HYDRANT
- MANHOLE
- WATER SHUT OFF (WSO)
- GAS PIPELINE MARKER
- CATCH BASIN / DROP INLET
- CURB INLET
- TRAFFIC CONTROL BOX
- PARKING METER
- UTILITY POLE

SIGN LEGEND
- R = REMOVE
- R&S = REMOVE AND SALVAGE
- RET = RETAIN
- S = SALVAGE
- N = NEW
- B-B = BACK TO BACK
- —— = EXISTING
- —— = NEW

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

SCALE IN FEET
20 0 20

PROJECT LAYOUT SHEET 67

PROJECT NAME: BOLTON - WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_91.i
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 91 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 1

MILEMARKER, 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) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (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 REQUIRED	REMARKS SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	SIGN DETAIL DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
STA. 105+64 RT BOLTON	0020 0401 0200	1	6	10	0.42						1				X			X														VD-700			E-138
STA. 113+85 RT BOLTON		1	30	30	6.25						1					X		X														W11-5	SHSM		
STA. 116+16 LT BOLTON	0020 0401 0220	1	6	10	0.42						1				X			X														VD-700			E-138
STA. 116+84 RT BOLTON	SPEED LIMIT 40	1	36	36	9.00						2					X		X														W3-5	SHSM		
STA. 124+00 LT BOLTON	WILDLIFE CROSSING	1	30	30	6.25						1					X		X														W11-318		110	
STA. 124+34 RT BOLTON	Bolton Waterbury 7	1	30	18	3.75						1					X		X														VD-018		110	
STA. 126+01 LT BOLTON	SPEED LIMIT 50	1	24	30	5.00						1					X		X														R2-1	SHSM		
	0020 0401 0239	1	6	10	0.42																											VD-700			E-138
												LF	LF	LF	LF 16	LF 90	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
TOTALS		SF 31.51	SF	EA. -	SF							LF			LF 106					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."

TRAFFIC SIGN SUMMARY SHEET 1

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: pp07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_92.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 92 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 2

MILEMARKER, 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 Ø (in) lb/ft			FOUNDATION	TUBULAR STEEL Ø (in) lb/ft				W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	SIGN REQUIRED	SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
															1.75	2.0	2.5			3.0	4.0	4.0 MOD		3.0	3.5	4.0	5.0	24"	30"							
												1.12	2.0	3.0	1.88	2.42	3.35			1.3	1.7	1.7		7.6	9.0	10.8	14.6								
STA. 126+02 RT BOLTON	SPEED LIMIT 40	1	30	36	7.50						1					X		X														R2-1	SHSM		
STA. 130+50 RT BOLTON		1	30	30	6.25						1					X		X														W11-8	SHSM		
STA. 138+26 LT BOLTON		1	30	30	6.25						1					X		X														W11-8	SHSM		
STA. 138+56 RT BOLTON		1	30	30	6.25						1					X		X														W1-4L	SHSM		
	0020 0401 0262	1	6	10	0.42																											VD-700			E-138
STA. 140+29 RT BOLTON	SPEED LIMIT 40	1	24	30	5.00						1					X		X														R2-1	SHSM		
STA. 141+78 RT BOLTON	13'-6"	1	36	36	9.00						2					X		X														W12-2	SHSM		
											LF	LF	LF	LF	LF 105	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
TOTALS					SF 40.67	SF	EA. -	SF			LF			LF 105				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."

TRAFFIC SIGN SUMMARY SHEET 2

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_93.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 93 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 3

MILEMARKER, 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	FLANGED CHANNEL lb/ft 2.0	FLANGED CHANNEL lb/ft 3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	SQUARE STEEL (in) lb/ft 2.0 2.42	SQUARE STEEL (in) lb/ft 2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	TUBULAR ALUMINUM Ø (in) lb/ft 4.0 1.7	TUBULAR ALUMINUM Ø (in) lb/ft 4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUNDATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	TUBULAR STEEL Ø (in) lb/ft 3.5 9.0	TUBULAR STEEL Ø (in) lb/ft 4.0 10.8	TUBULAR STEEL Ø (in) lb/ft 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 REQUIRED	REMARKS SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	SIGN DETAIL DETAIL IN SHSM	SIGN DETAIL DETAIL ON DWG. NUMBER	SIGN DETAIL STD. SHEET NUMBER
STA. 143+60 RT BOLTON		1	18	24	3.00						1					X		X														WI-8L	SHSM		
STA. 144+79 LT BOLTON		1	30	30	6.25						1					X		X														VW-054			E-154
STA. 144+80 RT BOLTON		1	18	24	3.00						1					X		X														WI-8L	SHSM		
STA. 146+00 RT BOLTON		1	18	24	3.00						1					X		X														WI-8L	SHSM		
STA. 146+51 RT BOLTON		1	24	30	5.00						1					X		X														VR-017			E-141
STA. 146+97 RT BOLTON		1	54	12	4.50						1					X		X														D3-1		110	
		1	30	30	6.25																											R1-1	SHSM		
STA. 147+84 LT BOLTON		1	6	10	0.42						1				X			X														VD-700			E-138
STA. 148+20 LT BOLTON		1	24	12	2.00						1					X		X														M3-2 BLACK ON WHITE	SHSM		
		1	24	24	4.00																											MI-4	SHSM		
												LF	LF	LF	LF 8	LF 105	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
TOTALS					SF 37.42	SF	EA. -	SF				LF			LF 113						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."

TRAFFIC SIGN SUMMARY SHEET 3

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_94.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 94 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 4

MILEMARKER, 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) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (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	RELOCATED SIGN	REMARKS SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	SIGN DETAIL DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
STA. 148+25 RT BOLTON		1	36	36	9.00						2					X		X															SI-1 FLUORESCENT YELLOW-GREEN, TYPE IX SHEETING	SHSM		
		1	24	18	2.50																													W16-2P FLUORESCENT YELLOW-GREEN, TYPE IX SHEETING	SHSM		
STA. 149+09 RT BOLTON		1	36	36	9.00						2					X		X																	W12-2	SHSM		
STA. 150+32 LT BOLTON		1	36	36	9.00						2					X		X																	W12-2	SHSM		
STA. 150+63 RT BOLTON		1 1	24 24	12 12	2.00 2.00						2						X	X																M3-2 BLACK ON WHITE M3-4 BLACK ON WHITE	SHSM SHSM		
		1 1	24 24	24 24	4.00 4.00																											*2	MI-4 SIGN FRAME REQUIRED MI-4	SHSM SHSM		
		1 1	21 21	15 15	2.19 2.19																												M6-IL BLACK ON WHITE M6-IR BLACK ON WHITE	SHSM SHSM		
TOTALS		SF 45.88	SF	EA. -	SF		LF	LF	LF	LF 90	LF 30	EA.	LB	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."

TRAFFIC SIGN SUMMARY SHEET 4

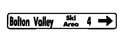
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_95.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 95 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 5

MILEMARKER, 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 Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUNDATION	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 REQUIRED	REMARKS SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	SIGN DETAIL DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
STA. 150+79 LT BOLTON		1	24	30	5.00						1					X		X														R4-7	SHSM		
		1	18	18	2.25																											OM1-1	SHSM		
STA. 150+80 LT BOLTON		1	36	36	9.00						2					X		X														R1-1	SHSM		
STA. 150+83 LT BOLTON		1	24	30	5.00						1					X		X														R4-7	SHSM		
		1	18	18	2.25																											OM1-1	SHSM		
STA. 151+09 LT BOLTON		1	24	30	5.00						1					X		X														VR-017			E-141
STA. 151+18 LT BOLTON		1	72	12	6.00						2					X		X														D3-1		110	
STA. 151+24 LT BOLTON		1	72	12	6.00						2					X		X														VD-024		110	
STA. 151+59 LT BOLTON		1	12	36	3.00						1					X		X														OM3-R	SHSM		
STA. 151+67 RT BOLTON		1	12	36	3.00						1					X		X														OM3-L	SHSM		
												LF	LF	LF	LF	LF 165	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
TOTALS					SF 46.50	SF	EA. -	SF				LF			LF 165					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."

TRAFFIC SIGN SUMMARY SHEET 5

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_96.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 96 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 6

MILEMARKER, 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 Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (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 REQUIRED	REMARKS SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	SIGN DETAIL DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
STA. 152+77 RT BOLTON		1	12	36	3.00						1					X		X														OM3-R	SHSM		
STA. 152+78 LT BOLTON		1	12	36	3.00						1					X		X														OM3-L	SHSM		
STA. 153+75 RT BOLTON	EAST	1	24	12	2.00						1					X		X														M3-2 BLACK ON WHITE	SHSM		
	2	1	24	24	4.00																											MI-4	SHSM		
STA. 153+97 LT BOLTON		1	18	24	3.00						1					X		X														WI-8L	SHSM		
STA. 155+16 LT BOLTON		1	18	24	3.00						1					X		X														WI-8L	SHSM		
STA. 157+16 LT BOLTON	13'-6"	1	36	36	9.00						2					X		X														WI2-2	SHSM		
STA. 158+40 RT BOLTON	UNSAFE TO PASS	1	30	30	6.25						1					X		X														VW-092			E-150
	0020 0401 0300	1	6	10	0.42																											VD-700			E-138
												LF	LF	LF	LF	LF 120	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
TOTALS					SF 33.67	SF	EA. -	SF				LF			LF 120					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."

TRAFFIC SIGN SUMMARY SHEET 6

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_97.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 97 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 7

MILEMARKER, 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 Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUNDATION	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 REQUIRED	REMARKS SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	SIGN DETAIL DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
STA. 159+27 LT BOLTON		1	36	36	9.00						2					X		X															SI-1 FLUORESCENT YELLOW-GREEN, TYPE IX SHEETING	SHSM		
		1	24	18	2.50																													W16-2P FLUORESCENT YELLOW-GREEN, TYPE IX SHEETING	SHSM		
STA. 161+42 LT BOLTON		1	30	30	6.25						1					X		X																W1-4L	SHSM		
STA. 164+80 LT BOLTON		1	30	36	7.50						1					X		X																R2-1	SHSM		
STA. 164+82 RT BOLTON		1	24	30	5.00						1					X		X																R2-1	SHSM		
STA. 168+96 LT BOLTON		1	6	10	0.42						1				X			X																VD-700			E-138
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."												LF	LF	LF	LF 8	LF 75	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
	TOTALS				SF 30.67	SF	EA. -	SF				LF			LF 83					LB			EA.	LB				EA.	EA.	LB						

TRAFFIC SIGN SUMMARY SHEET 7

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_98.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 98 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 8

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	NEW & SALVAGED SIGNS: SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	"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) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (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	REMOVED SIGN	REMARKS (SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK)	SIGN DETAIL: DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
STA. 170+94 LT BOLTON	Bolton Jonesville 3	1	30	18	3.75						1					X		X															VD-018		110	
STA. 172+99 RT BOLTON	WATCH FOR TURNING VEHICLES	1	30	30	6.25						1					X		X															VW-205			E-154
STA. 173+77 LT BOLTON	SPEED LIMIT 40	1	36	36	9.00						2					X		X															W3-5	SHSM		
STA. 179+52 LT BOLTON	0020 0401 0340	1	6	10	0.42						1				X			X															VD-700			E-138
STA. 190+08 RT BOLTON	0020 0401 0360	1	6	10	0.42						1				X			X															VD-700			E-138
STA. 197+65 RT BOLTON	UNSAFE TO PASS	1	30	30	6.25						1					X		X															VW-092			E-150
STA. 200+64 RT BOLTON	0020 0401 0380	1	6	10	0.42						1				X			X															VD-700			E-138
STA. 211+20 RT BOLTON	0020 0401 0400	1	6	10	0.42						1				X			X															VD-700			E-138
STA. 216+38 LT BOLTON	UNSAFE TO PASS	1	30	30	6.25						1					X		X															VW-092			E-150
												LF	LF	LF	LF 32	LF 90	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
TOTALS		SF 33.18	SF	EA. -	SF							LF			LF 122					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."

TRAFFIC SIGN SUMMARY SHEET 8

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_99.I

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 99 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 9

MILEMARKER, 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) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (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 REPLACED	REMARKS SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	SIGN DETAIL DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
STA. 221+76 RT BOLTON	0020 0401 0420	1	6	10	0.42						1				X			X														VD-700			E-138
STA. 232+32 LT BOLTON	0020 0401 0440	1	6	10	0.42						1				X			X														VD-700			E-138
STA. 240+39 RT BOLTON	WILDLIFE CROSSING	1	30	30	6.25						1					X		X														VW-318		110	
	NEXT 2 MILES	1	24	18	3.00																											W7-3a	SHSM		
	0020 0401 0455	1	6	10	0.42																											VD-700			E-138
STA. 242+88 RT BOLTON	0020 0401 0460	1	6	10	0.42						1				X			X														VD-700			E-138
STA. 249+37 LT BOLTON	SPEED LIMIT 50	1	24	30	5.00						1					X		X														R2-1	SHSM		
STA. 253+44 LT BOLTON	0020 0401 0480	1	6	10	0.42						1				X			X														VD-700			E-138
STA. 264+00 RT BOLTON	0020 0401 0500	1	6	10	0.42						1				X			X														VD-700			E-138
STA. 274+56 RT BOLTON	0020 0401 0520	1	6	10	0.42						1				X			X														VD-700			E-138
												LF	LF	LF	LF 48	LF 30	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
	TOTALS				SF 17.19	SF	EA. -	SF				LF			LF 78						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."

TRAFFIC SIGN SUMMARY SHEET 9

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_100.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 100 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 10

MILEMARKER, 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 Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (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 REQUIRED	REMARKS SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	SIGN DETAIL DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
STA. 285+12 LT BOLTON	0020 0401 0540	1	6	10	0.42						1				X			X														VD-700			E-138
STA. 289+75 LT BOLTON	$500 FINE FOR THROWING TRASH ON HIGHWAYS AND STREAMS	1	24	30	5.00						1					X		X														VR-023b			E-144
	R	1	24	24	4.00																											R8-3A	SHSM		
STA. 295+68 RT BOLTON	0020 0401 0560	1	6	10	0.42						1				X			X														VD-700			E-138
STA. 295+75 LT BOLTON	WILDLIFE CROSSING	1	30	30	6.25						1					X		X														VW-318		110	
STA. 297+54 RT BOLTON	SPEED LIMIT 50	1	24	30	5.00						1					X		X														R2-1	SHSM		
STA. 299+71 LT BOLTON STA. A 0+00 LT WATERBURY	Bolton | Waterbury	1	72	10	5.00						2					X		X														VD-024		111	
	Chittenden Co | Washington Co	1	72	10	5.00																											VD-024		111	
	0020 0401 0567	1	6	10	0.42																											VD-700			E-138
	0020 1218 0000	1	6	10	0.42																											VD-700			E-138
												LF	LF	LF	LF 16	LF 75	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
TOTALS					SF 31.93	SF	EA. -	SF				LF			LF 91					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."

TRAFFIC SIGN SUMMARY SHEET 10

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_101.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 101 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 11

MILEMARKER, 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 Ø (in) lb/ft			FOUNDATION	TUBULAR STEEL Ø (in) lb/ft				W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	REQUIRED SIGNED	SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
												1.12	2.0	3.0	1.75	2.0	2.5			3.0	4.0	4.0 MOD		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								
STA. A 6+72 LT WATERBURY	Sharkeyville	1	48	12	4.00						2					X		X														D3-1		110	
STA. A 10+56 LT WATERBURY	0020 1218 0020	1	6	10	0.42						1				X			X														VD-700			E-138
STA. A 21+12 LT WATERBURY	0020 1218 0040	1	6	10	0.42						1				X			X														VD-700			E-138
STA. A 27+63 LT WATERBURY	PASS WITH CARE	1	24	30	5.00						1					X		X														R4-2	SHSM		
STA. A 31+68 LT WATERBURY	0020 1218 0060	1	6	10	0.42						1				X			X														VD-700			E-138
STA. A 39+16 RT WATERBURY	SPEED LIMIT 50	1	24	30	5.00						1					X		X														R2-1	SHSM		
STA. A 40+05 LT WATERBURY	SPEED LIMIT 50	1	24	30	5.00						1					X		X														R2-1	SHSM		
STA. A 42+24 LT WATERBURY	0020 1218 0080	1	6	10	0.42						1				X			X														VD-700			E-138
STA. A 42+25 RT WATERBURY	WILDLIFE CROSSING	1	30	30	6.25						1					X		X														VW-318		110	
STA. A 45+50 LT WATERBURY	WILDLIFE CROSSING	1	30	30	6.25						1					X		X														VW-318		110	
												LF	LF	LF	LF 32	LF 105	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
TOTALS		SF 33.18	SF	EA. -	SF							LF			LF 137					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."

TRAFFIC SIGN SUMMARY SHEET 11

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_I02.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 102 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 12

MILEMARKER, 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 Ø (in) lb/ft			FOUND-ATION	TUBULAR STEEL Ø (in) lb/ft				W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	SIGN REQUIRED	SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
												1.12	2.0	3.0	1.88	2.42	3.35			1.3	1.7	1.7		7.6	9.0	10.8	14.6	24"	30"						
															1.75	2.0	2.5			3.0	4.0	4.0 MOD		3.0	3.5	4.0	5.0								
STA. A 50+50 RT WATERBURY		1	30	30	6.25						1					X		X															WI-4R	SHSM		
STA. A 52+80 LT WATERBURY		1	6	10	0.42						1				X			X															VD-700			E-138
STA. A 55+52 LT WATERBURY		1	18	24	3.00						1					X		X															WI-8R	SHSM		
STA. A 57+12 LT WATERBURY		1	18	24	3.00						1					X		X															WI-8R	SHSM		
STA. A 60+77 RT WATERBURY		1	30	30	6.25						1					X		X															WI4-1	SHSM		
STA. A 60+83 RT WATERBURY		1	24	30	5.00						1					X		X															VR-017			E-141
STA. A 61+00 LT WATERBURY		1	30	30	6.25						1					X		X															WI-2L	SHSM		
STA. A 61+21RT WATERBURY		1	48	12	4.00						2					X		X															D3-1		110	
		1	30	30	6.25																												RI-1	SHSM		
		1	6	10	0.42																												VD-700			E-138
												LF	LF	LF	LF 8	LF 120	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
	TOTALS				SF 40.84	SF	EA. -	SF				LF			LF 128						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."

TRAFFIC SIGN SUMMARY SHEET 12

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_I03.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 103 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 13

MILEMARKER, 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 Ø (in) lb/ft			FOUNDATION	TUBULAR STEEL Ø (in) lb/ft				W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	SIGN REQUIRED	SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
												1.12	2.0	3.0	1.75	2.0	2.5			3.0	4.0	4.0 MOD		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								
STA. A 61+43 RT WATERBURY		1	30	30	6.25						1					X		X														WII-6H	INSTALL SIGN IN CLOSED POSITION	SHSM		
STA. A 63+36 RT WATERBURY	0020 1218 0120	1	6	10	0.42						1				X			X														VD-700			E-138
STA. A 73+96 LT WATERBURY		1	30	30	6.25						1					X		X														WII-6H	INSTALL SIGN IN CLOSED POSITION	SHSM		
	0020 1218 0140	1	6	10	0.42						1																					VD-700			E-138
STA. A 84+48 RT WATERBURY	0020 1218 0160	1	6	10	0.42						1				X			X														VD-700			E-138
STA. A 95+04 LT WATERBURY	0020 1218 0180	1	6	10	0.42						1				X			X														VD-700			E-138
STA. A 105+60 RT WATERBURY	0020 1218 0200	1	6	10	0.42						1				X			X														VD-700			E-138
STA. A 111+88 RT WATERBURY		1	30	30	6.25						1					X		X														WII-6H	INSTALL SIGN IN CLOSED POSITION	SHSM		
STA. A 116+16 LT WATERBURY	0020 1218 0220	1	6	10	0.42						1				X			X														VD-700			E-138
												LF	LF	LF	LF 40	LF 45	LF		EA.	LB	LB	LB		LB	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."

TOTALS	SF	SF	EA.	SF		LF	LF	LB	EA.	LB	EA.	EA.	LB
	21.27		-				85						

TRAFFIC SIGN SUMMARY SHEET 13

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_I04.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 104 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 14

MILEMARKER, 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) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (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 REQUIRED	REMARKS SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	SIGN DETAIL DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
STA. A 126+72 RT WATERBURY	0020 1218 0240	1	6	10	0.42						1				X			X															VD-700			E-138
STA. A 127+29 LT WATERBURY	WEST	1	24	12	2.00						1					X		X															M3-4 BLACK ON WHITE	SHSM		
	2	1	24	24	4.00																												M1-4	SHSM		
STA. A 127+64 LT WATERBURY	Little River Rd	1	42	12	3.50						1					X		X															D3-1		110	
	STOP	1	30	30	6.25																												R1-1	SHSM		
STA. A 127+80 RT WATERBURY	EAST WEST	1 1	24 24	12 12	2.00 2.00						2						X	X															M3-2 BLACK ON WHITE M3-4 BLACK ON WHITE	SHSM SHSM		
	2 2	1 1	24 24	24 24	4.00 4.00																										#2	M1-4 SIGN FRAME REQUIRED M1-4	SHSM SHSM		
	← →	1 1	21 21	15 15	2.19 2.19																												M6-1L BLACK ON WHITE M6-1R BLACK ON WHITE	SHSM SHSM		
STA. A 128+07 LT WATERBURY	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X															VR-017			E-141
												LF	LF	LF	LF 8	LF 45	LF 30		EA.	LB	LB	LB		LB	LB	LB	LB									
	TOTALS				SF 37.55	SF	EA. -	SF				LF			LF 83					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."

TRAFFIC SIGN SUMMARY SHEET 14

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER:

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_105.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 105 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 15

MILEMARKER, 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 Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUNDATION	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	REMOVED SIGN	REMARKS SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	SIGN DETAIL DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
STA. A 128+89 RT WATERBURY	EAST	1	24	12	2.00						1					X		X														M3-2 BLACK ON WHITE	SHSM		
	2	1	24	24	4.00																											MI-4	SHSM		
STA. A 130+75 LT WATERBURY	WILDLIFE CROSSING	1	30	30	6.25						1					X		X														VW-318		110	
STA. A 132+42 RT WATERBURY		1	12	36	3.00						1					X		X														OM3-R	SHSM		
	BRIDGE 44 US 2	1	6	8	0.33																											VD-701			E-134
STA. A 132+61 LT WATERBURY		1	12	36	3.00						1					X		X														OM3-R	SHSM		
STA. A 135+12 RT WATERBURY		1	12	36	3.00						1					X		X														OM3-L	SHSM		
STA. A 135+23 LT WATERBURY		1	12	36	3.00						1					X		X														OM3-L	SHSM		
	BRIDGE 44 US 2	1	6	8	0.33																											VD-701			E-134
												LF	LF	LF	LF	LF 90	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
	TOTALS				SF 24.91	SF	EA. -	SF				LF			LF 90					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."

TRAFFIC SIGN SUMMARY SHEET 15

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_I06.I

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 106 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 16

MILEMARKER, 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) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (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 REQUIRED	REMARKS SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	SIGN DETAIL DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
STA. A 137+28 RT WATERBURY	0020 1218 0260	1	6	10	0.42						1				X			X															VD-700			E-138
STA. A 137+94 LT WATERBURY		1	30	30	6.25						1					X		X															WII-6H INSTALL SIGN IN CLOSED POSITION	SHSM		
STA. A 143+03 RT WATERBURY	BRIDGE 45 US 2	1	6	8	0.33						1				X			X															VD-701			E-134
STA. A 143+62 LT WATERBURY	BRIDGE 45 US 2	1	6	8	0.33						1				X			X															VD-701			E-134
STA. A 147+84 LT WATERBURY	0020 1218 0280	1	6	10	0.42						1				X			X															VD-700			E-138
STA. A 156+41 LT WATERBURY	NO PARKING ON TRAVELED LANE / NO PARKING ON TRAVELED LANE	1 1	24 24	30 30	5.00 5.00						1					X		X															VR-020 MOUNT SIGNS BACK TO BACK VR-020			E-146 E-146
STA. A 158+40 LT WATERBURY	0020 1218 0300	1	6	10	0.42						1				X			X															VD-700			E-138
STA. A 159+07 LT WATERBURY	NO PARKING ON TRAVELED LANE / NO PARKING ON TRAVELED LANE	1 1	24 24	30 30	5.00 5.00						1					X		X															VR-020 MOUNT SIGNS BACK TO BACK VR-020			E-146 E-146
STA. A 163+06 RT WATERBURY	SPEED LIMIT 40	1	30	36	7.50						1					X		X															R2-1	SHSM		
												LF	LF	LF	LF 40	LF 60	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
TOTALS					SF 35.67	SF	EA. -	SF				LF			LF 100					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."

TRAFFIC SIGN SUMMARY SHEET 16

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_I07.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 107 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 17

MILEMARKER, 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 Ø (In) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (In) lb/ft FOUND-ATION	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 REMOVED	REMARKS SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	SIGN DETAIL DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
STA. A 164+75 LT WATERBURY	NO PARKING ON TRAVELED LANE / NO PARKING ON TRAVELED LANE	1	24	30	5.00						1					X		X															VR-020 MOUNT SIGNS BACK TO BACK			E-146
		1	24	30	5.00																											VR-020			E-146
STA. A 168+96 RT WATERBURY	0020 1218 0320	1	6	10	0.42						1				X			X															VD-700			E-138
STA. A 170+91 RT WATERBURY	WATCH FOR TURNING VEHICLES	1	30	30	6.25						1					X		X															VW-205			E-154
STA. A 176+75 LT ~~STA. A 172+75 LT~~ WATERBURY	13'-6"	1	36	36	9.00						2					X		X															W12-2	SHSM		
	2 MILES	1	30	24	5.00																												W16-3P	SHSM		
STA. A 177+19 RT WATERBURY		1	30	30	6.25						1					X		X															WI-4L	SHSM		
STA. A 179+53 LT WATERBURY	WILDLIFE CROSSING	1	30	30	6.25						1					X		X															VW-318		110	
	NEXT 13 MILES	1	24	18	3.00																												W7-3a	SHSM		
	0020 1218 0340	1	6	10	0.42																												VD-700			E-138
												LF	LF	LF	LF 8	LF 90	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
TOTALS		SF 46.59	SF	EA. -	SF							LF			LF 98					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."

TRAFFIC SIGN SUMMARY SHEET 17

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_108.1
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 108 OF 217

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 18

MILEMARKER, 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 Ø (in) lb/ft			FOUNDATION	TUBULAR STEEL Ø (in) lb/ft				W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	SIGN REQUIRED	SHSM = FHWA STANDARD HIGHWAY SIGNS AND MARKINGS BOOK	DETAIL IN SHSM	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
												1.12	2.0	3.0	1.75	2.0	2.5			3.0	4.0	4.0 MOD		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									
STA. A 181+96 RT WATERBURY	SPEED LIMIT 25	1	36	36	9.00						2					X		X														W3-5	SHSM		
STA. A 183+15 RT WATERBURY	Waterbury Middlesex 5	1	30	18	3.75						1					X		X														VD-018		110	
STA. A 185+30 RT BOLTON	STATE HIGHWAY ENDS	1	24	18	3.00						1					X		X														VR-038			E-141
	SPEED LIMIT 25	1	30	36	7.50																											R2-1	SHSM		
STA. A 185+31 LT WATERBURY	STATE HIGHWAY BEGINS	1	24	18	3.00						1					X		X														VR-039			E-141
	SPEED LIMIT 40	1	24	30	5.00																											R2-1	SHSM		
	TSSS 1 TOTAL				31.51										16	90																		
	TSSS 2 TOTAL				40.67											105																		
	TSSS 3 TOTAL				37.42										8	105																		
	TSSS 4 TOTAL				45.88											90	30																	
	TSSS 5 TOTAL				46.50											165																		
	TSSS 6 TOTAL				33.67											120																		
	TSSS 7 TOTAL				30.67										8	75																		
	TSSS 8 TOTAL				33.18										32	90																		
	TSSS 9 TOTAL				17.19										48	30																		
	TSSS 10 TOTAL				31.93										16	75																		
	TSSS 11 TOTAL				33.18										32	105																		
	TSSS 12 TOTAL				40.84										8	120																		
	TSSS 13 TOTAL				21.27										40	45																		
	TSSS 14 TOTAL				37.55										8	45	30																	
	TSSS 15 TOTAL				24.91											90																		
	TSSS 16 TOTAL				35.67										40	60																		
	TSSS 17 TOTAL				46.59										8	90																		
	TSSS 18 TOTAL				31.25											75																		
												LF	LF	LF	LF	LF	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
															264	1575	60																	
															1																			
	SUBTOTAL				619.88																													
	ROUNDING				10.12																													
	TOTALS				SF 630	SF	EA. -	SF				LF			LF 1900					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."

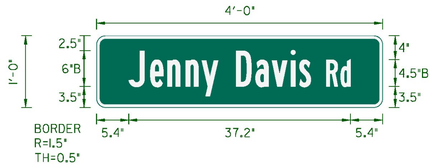
TRAFFIC SIGN SUMMARY SHEET 18

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_109.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 109 OF 217

Panel Style: Street Name 6-4in.ssi
M.U.T.C.D.: 2009 Edition
WHITE ON GREEN
STA. 146+97 RT



Panel Style: Street Name 6-4in.ssi
M.U.T.C.D.: 2009 Edition
WHITE ON GREEN
STA. A 61+21 RT

Panel Style: Street Name 6-4in.ssi
M.U.T.C.D.: 2009 Edition
WHITE ON GREEN
STA. A 127+64 LT

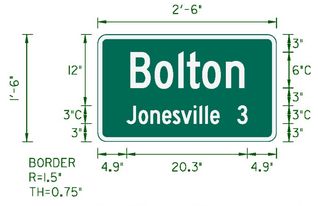
Panel Style: Street Name 6-4in.ssi
M.U.T.C.D.: 2009 Edition
WHITE ON GREEN
STA. 151+18 LT

Panel Style: Street Name 6-4in.ssi
M.U.T.C.D.: 2009 Edition
WHITE ON GREEN
STA. 151+24 LT

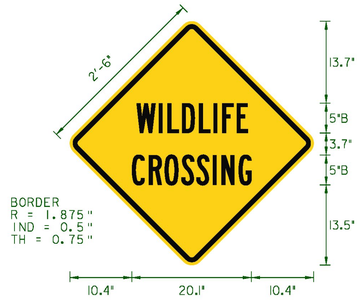
Panel Style: Street Name 6-4in.ssi
M.U.T.C.D.: 2009 Edition
WHITE ON GREEN
STA. A 6+72 LT

Panel Style: guide_con_street.ssi
M.U.T.C.D.: 2009 Edition
WHITE ON GREEN
STA. A 183+15 RT

Panel Style: guide_con_street.ssi
M.U.T.C.D.: 2009 Edition
WHITE ON GREEN
STA. 124+34 RT



Panel Style: guide_con_street.ssi
M.U.T.C.D.: 2009 Edition
WHITE ON GREEN
STA. 170+94 LT



Panel Style: warning 36in.ssi
M.U.T.C.D.: 2009 Edition
BLACK ON YELLOW (RETROREFLECTIVE)
STA. 124+00 LT
STA. 240+39 RT
STA. 295+75 LT
STA. A 42+25 RT
STA. A 45+50 LT
STA. A 130+75 LT
STA. A 179+53 LT

DETAILS ARE NOT TO SCALE

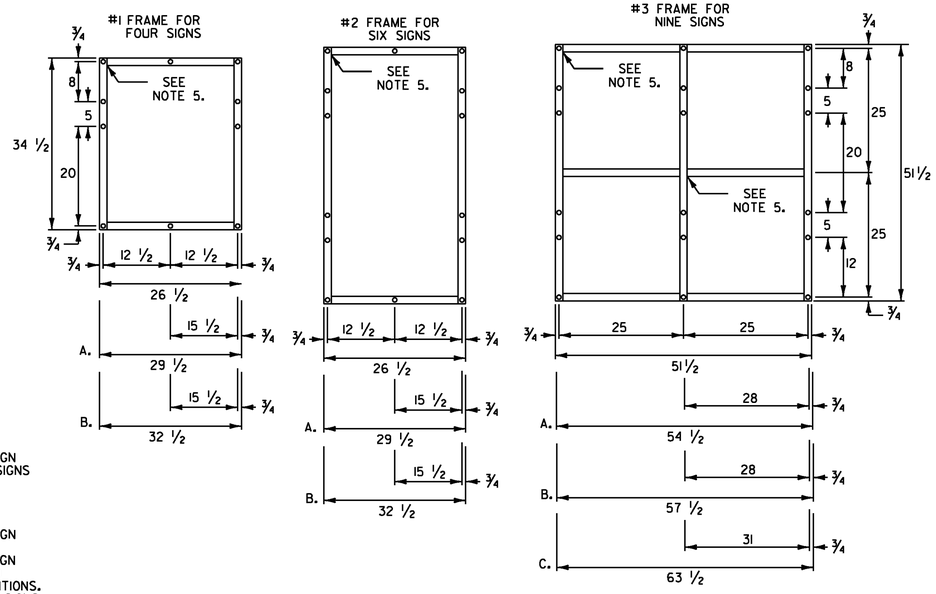
SIGN DETAIL SHEET 1

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_110.1

PLOT DATE: 4/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 110 OF 217

ROUTE MARKER ASSEMBLY FRAMES



NOTES:

1. NOTES FOR #1 AND #2 FRAME:

   A. WITH ONE 30 INCH THREE DIGIT SIGN
   B. WITH TWO 30 INCH THREE DIGIT SIGNS

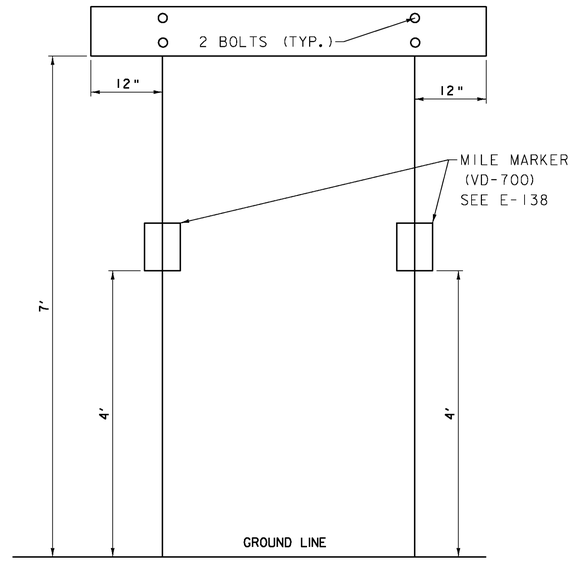
2. NOTES FOR #3 FRAME:

   A. WITH ONE 30 INCH THREE DIGIT SIGN IN AN OUTSIDE POSITION.
   B. WITH ONE 30 INCH THREE DIGIT SIGN IN THE CENTER POSITION OR TWO SUCH SIGNS IN THE OUTSIDE POSITIONS.
   C. WITH THREE 30 INCH THREE DIGIT SIGNS.

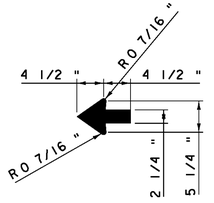
3. ALL HOLES SHALL BE 7/16 INCH DIAMETER. FOR OTHER SIGN COMBINATIONS THAN ABOVE, THE FRAME DIMENSIONS AND HOLE SPACING SHALL BE MODIFIED AS NECESSARY. THE FRAME SHALL BE PAINTED WITH ONE COAT OF PRIMER AND A SECOND COAT OF BLACK PAINT. THE PAINT SHALL BE OF THE TYPE USED ON EXTERIOR METAL SURFACES TO PREVENT METAL CORROSION.

4. STANDARD FRAMES SHALL BE 5/16 INCH x 1 1/2 INCH WELDED ASTM A-36 STEEL.

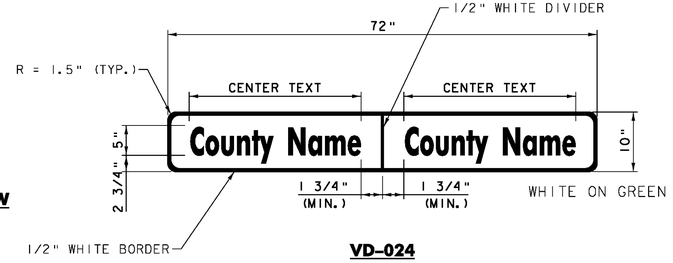
5. ALL OVERLAPPED CONNECTIONS SHALL BE WELDED WITH TWO, 1"4 INCH WIDE FILLET WELDS, 1 1/2 INCHES LONG.



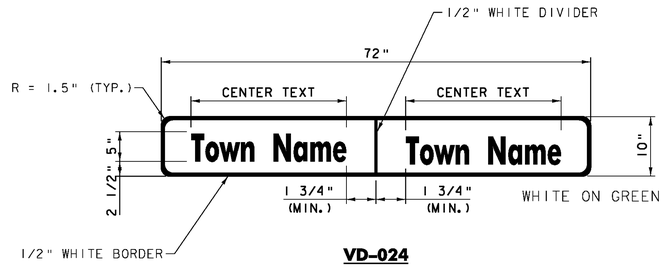
TOWN LINE SIGN PLACEMENT



STANDARD SHSM 2.25" ARROW



VD-024



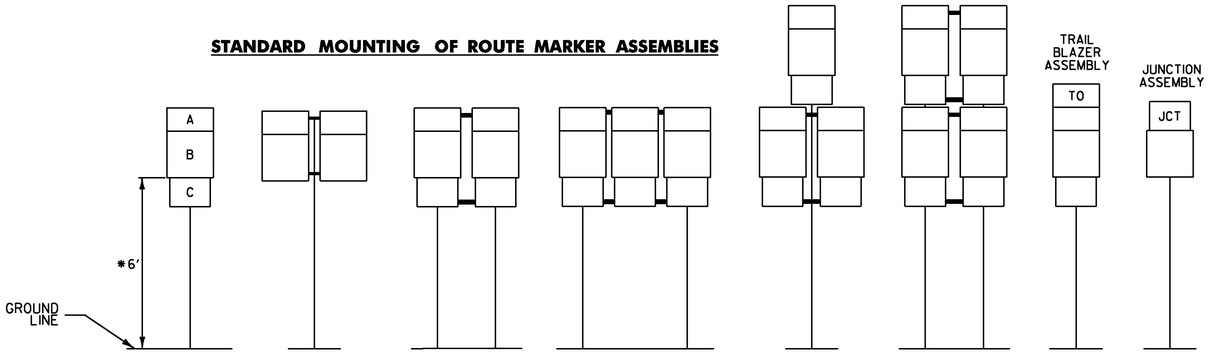
VD-024

1.) WORD TO WORD SPACING FOR COUNTIES AND TWO WORD TOWN NAMES IS ADJUSTABLE TO ACCOMODATE DIMENSION REQUIREMENT.

2.) FONT SPACING MAY BE ADJUSTED TO MEET DIMENSION REQUIREMENT.

3.) DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED SLIGHTLY TO ACCOMODATE VARIOUS MANUFACTURER'S LETTER WIDTHS.

STANDARD MOUNTING OF ROUTE MARKER ASSEMBLIES



A - CARDINAL DIRECTION MARKER
B - ROUTE NUMBER
C - ADVANCE TURN ARROW OR DIRECTIONAL ARROW

* WHERE PARKING OR PEDESTRIAN TRAFFIC WILL OCCUR IN THE IMMEDIATE VICINITY OF THESE SIGNS MINIMUM VERTICAL CLEARANCE SHALL BE INCREASED TO SEVEN FEET

INSTALLATION SEQUENCE:

IN MULTIPLE HORIZONTAL MOUNTINGS PLACE A ROUTE MARKER ASSEMBLY INDICATING A LEFT TURN ON THE LEFT SIDE OF THE ASSEMBLY; RIGHT TURN ON THE RIGHT SIDE. FOR VERTICALLY STACKED MOUNTINGS PLACE THE STRAIGHT THROUGH MOVE INDICATION ON TOP, THE LEFT OR RIGHT TURNS AS APPROPRIATE BENEATH.

NOTES:

1. ALL DIMENSIONS SHOWN IN INCHES EXCEPT WHERE NOTED.
2. VERTICAL FRAME MEMBERS SHALL LINE UP WITH SIGN POST ON WHICH THEY ARE MOUNTED.

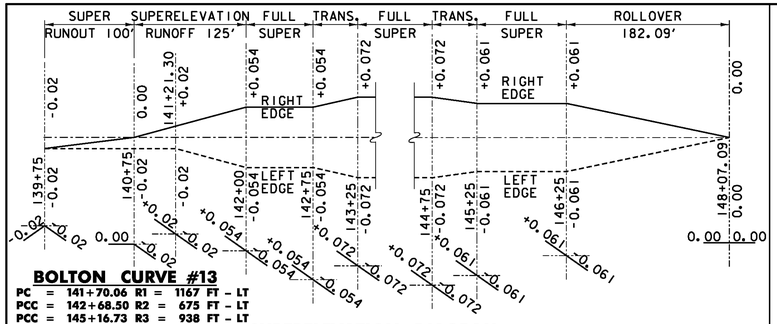
DETAILS ARE NOT TO SCALE

SIGN DETAIL SHEET 2

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_III.I

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET III OF 217

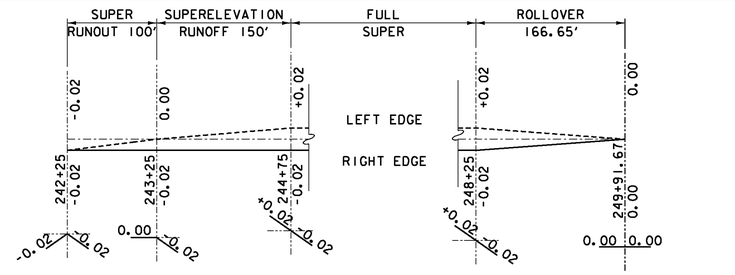


BOLTON CURVE #13
PC = 141+70.06 R1 = 1167 FT - LT
PCC = 142+68.50 R2 = 675 FT - LT
PCC = 145+16.73 R3 = 938 FT - LT
PT = 146+65.29 V = 40 MPH

SUPERELEVATION DIAGRAM
NTS

BOLTON CURVE #12
PC = 140+22.81 R = 8500 FT - LT
PT = 140+82.55 V = 40 MPH

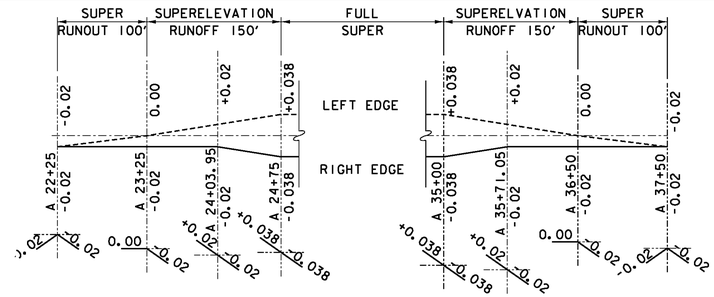
BOLTON CURVE #14
PC = 148+40.57 R = 2500 FT - RT
PT = 148+97.00 V = 40 MPH



BOLTON CURVE #36
PC = 242+80.40 R = 10000 FT - RT
PT = 243+95.59 V = 50 MPH

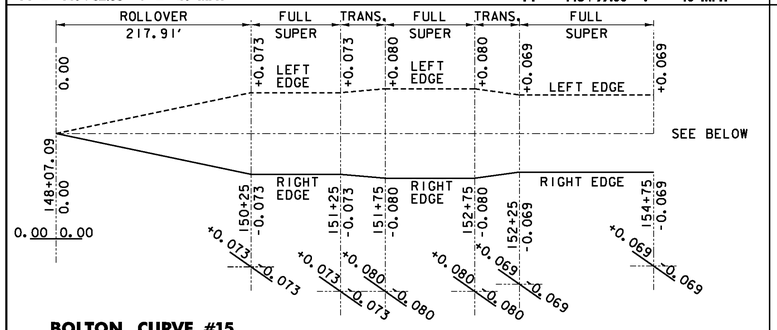
SUPERELEVATION DIAGRAM
NTS

BOLTON CURVE #37
PC = 244+45.32 R = 7000 FT - RT
PT = 248+85.24 V = 50 MPH



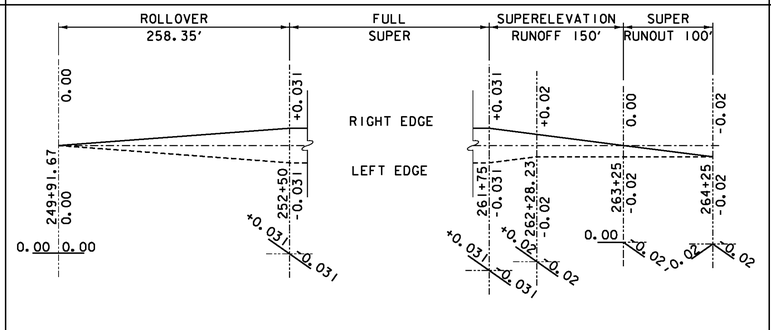
WATERBURY CURVE #4
PC = A 24+48.96 R = 2900 FT - RT
PT = A 35+48.07 V = 50 MPH

SUPERELEVATION DIAGRAM
NTS



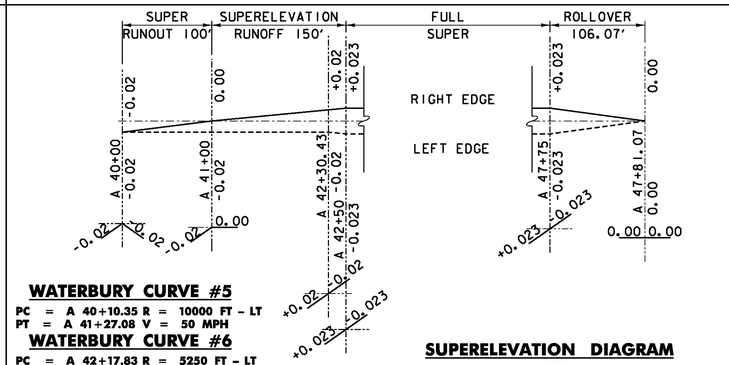
BOLTON CURVE #15
PC = 149+74.26 R1 = 650 FT - RT
PCC = 152+01.15 R2 = 750 FT - RT
PT = 155+58.21 V = 40 MPH

SUPERELEVATION DIAGRAM
NTS



BOLTON CURVE #38
PC = 251+76.54 R = 3700 FT - LT
PT = 262+15.16 V = 50 MPH

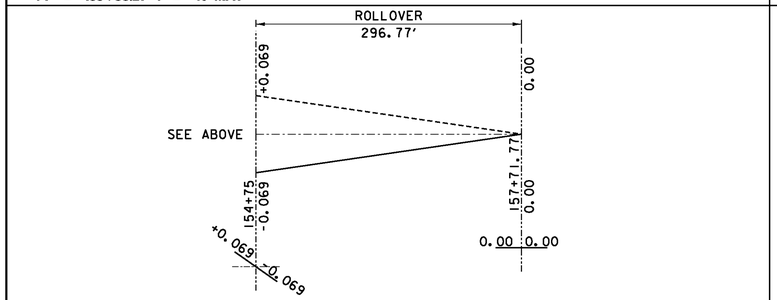
SUPERELEVATION DIAGRAM
NTS

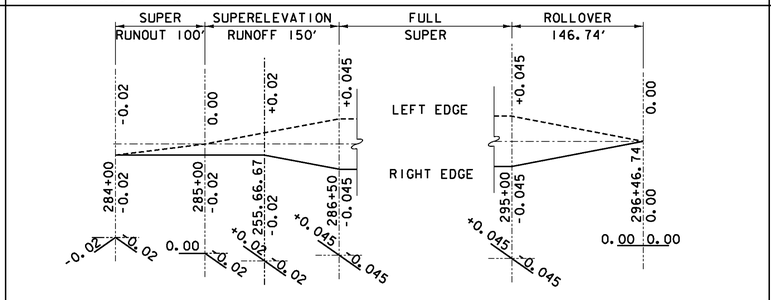


WATERBURY CURVE #5
PC = A 40+10.35 R = 10000 FT - LT
PT = A 41+27.08 V = 50 MPH

WATERBURY CURVE #6
PC = A 42+17.83 R = 5250 FT - LT
PT = A 48+09.60 V = 50 MPH

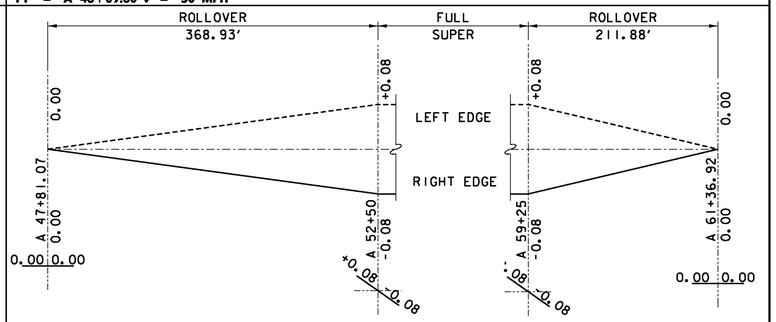
SUPERELEVATION DIAGRAM
NTS





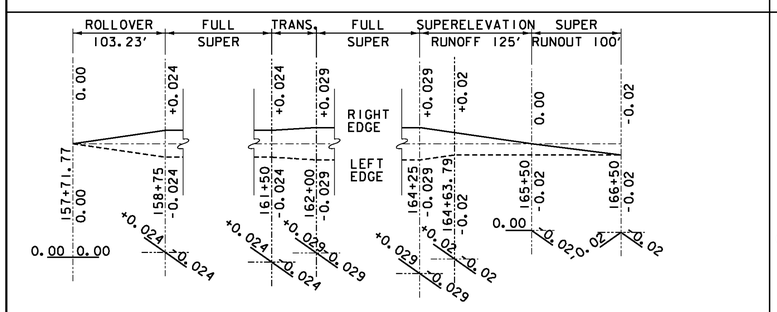
BOLTON CURVE #43
PC = 286+08.18 R = 2375 FT - RT
PT = 295+45.00 V = 50 MPH

SUPERELEVATION DIAGRAM
NTS



WATERBURY CURVE #7
PC = A 51+52.18 R = 770 FT - RT
PT = A 60+05.18 V = 50 MPH

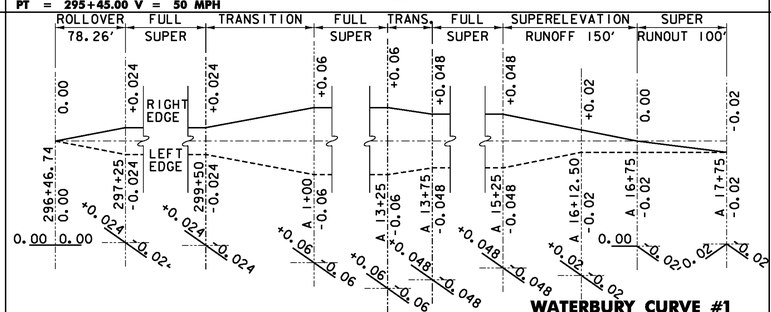
SUPERELEVATION DIAGRAM
NTS



BOLTON CURVE #16
PC = 158+52.52 R1 = 3200 FT - LT
PCC = 161+72.24 R2 = 2650 FT - LT
PT = 164+71.22 V = 40 MPH

SUPERELEVATION DIAGRAM
NTS

BOLTON CURVE #17
PC = 165+32.58 R = 25000 FT - RT
PT = 166+22.78 V = 50 MPH



BOLTON CURVE #44
PC = 298+09.50 R = 5000 FT - LT
PT = 299+13.98 V = 50 MPH

SUPERELEVATION DIAGRAM
NTS

WATERBURY CURVE #1
PC = A 0+17.04 R1 = 1666 FT - LT
PCC = A 2+32.03 R2 = 1555 FT - LT
PCC = A 8+71.50 R3 = 1586 FT - LT
PCC = A 13+49.08 R4 = 2158 FT - LT
PT = A 15+78.98 V = 50 MPH

NOTES:

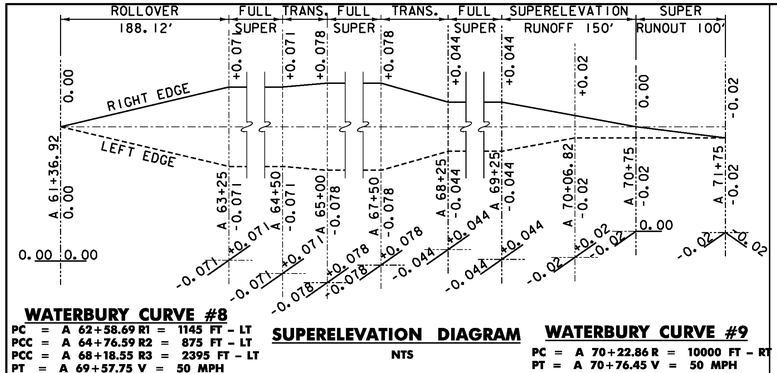
1. CURVES NOT SHOWN ON SUPERELEVATION BANKING DIAGRAM SHEETS DO NOT NEED TO BE SUPERELEVATED.
2. DIAGRAM EDGE LINES REFERS TO EDGE OF SHOULDER.

SUPERELEVATION BANKING DIAGRAM SHEET 1

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p09C362.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p09C362_112.i

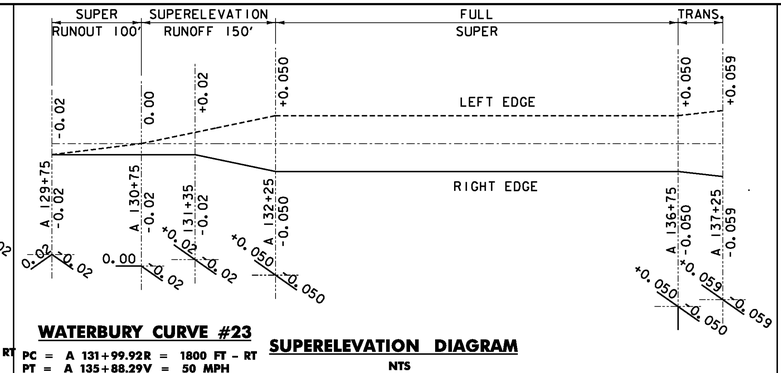
PLOT DATE: 4/16/2013
DRAWN BY: JBG
CHECKED BY: CDL
SHEET 112 OF 217



WATERBURY CURVE #8
PC = A 62+58.69 R1 = 1145 FT - LT
PCC = A 64+76.59 R2 = 875 FT - LT
PCC = A 68+18.55 R3 = 2395 FT - LT
PT = A 69+57.75 V = 50 MPH

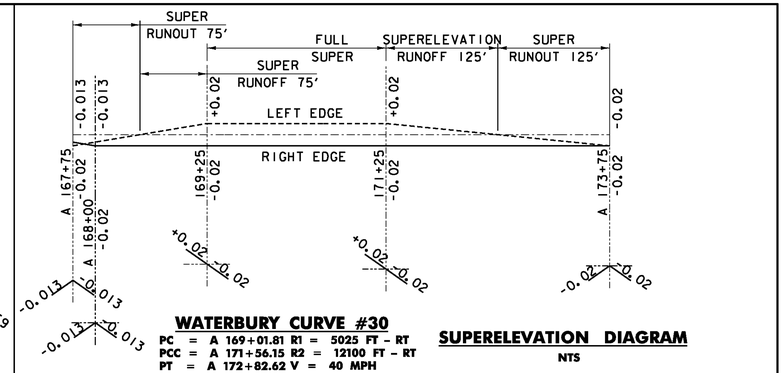
SUPERELEVATION DIAGRAM
NTS

WATERBURY CURVE #9
PC = A 70+22.86 R = 10000 FT - RT
PT = A 70+76.45 V = 50 MPH



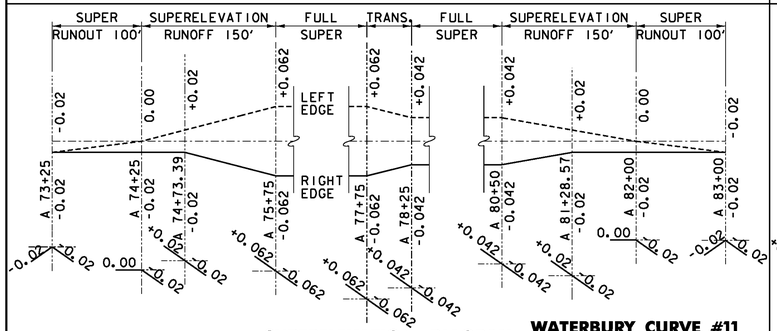
WATERBURY CURVE #23
PC = A 131+99.92R = 1800 FT - RT
PT = A 135+88.29V = 50 MPH

SUPERELEVATION DIAGRAM
NTS



WATERBURY CURVE #30
PC = A 169+01.81 R1 = 5025 FT - RT
PCC = A 171+56.15 R2 = 12100 FT - RT
PT = A 172+82.62 V = 40 MPH

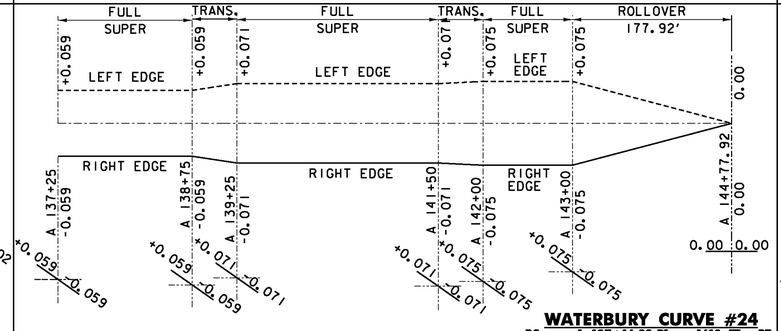
SUPERELEVATION DIAGRAM
NTS



WATERBURY CURVE #10
PC = A 73+75.17 R = 20000 FT - RT
PT = A 74+56.58 V = 50 MPH

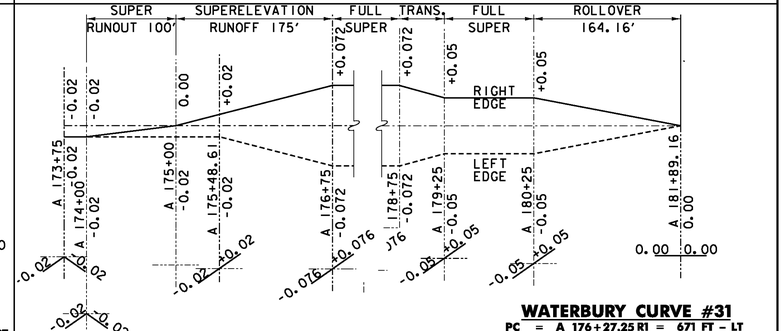
SUPERELEVATION DIAGRAM
NTS

WATERBURY CURVE #11
PC = A 75+22.54 R1 = 1500 FT - RT
PCC = A 78+05.79 R2 = 2250 FT - RT
PT = A 80+91.00 V = 50 MPH



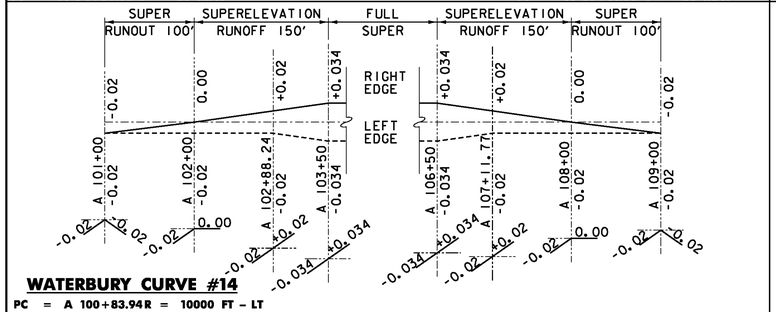
WATERBURY CURVE #24
PC = A 137+16.82 R1 = 1610 FT - RT
PCC = A 139+17.57 R2 = 1160 FT - RT
PCC = A 141+70.28 R3 = 1014 FT - RT
PT = A 143+50.82 V = 50 MPH

SUPERELEVATION DIAGRAM
NTS



WATERBURY CURVE #31
PC = A 176+27.25 R1 = 671 FT - LT
PCC = A 177+50.39 R2 = 585 FT - LT
PCC = A 179+27.54 R3 = 1319 FT LT
PT = A 180+62.71 V = 40 MPH

SUPERELEVATION DIAGRAM
NTS

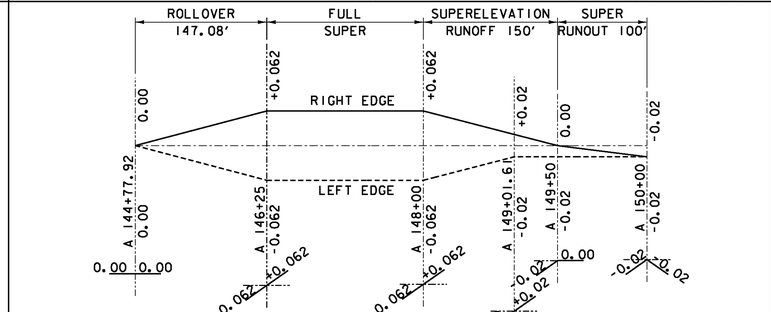


WATERBURY CURVE #14
PC = A 100+83.94R = 10000 FT - LT
PT = A 101+63.82 V = 50 MPH

WATERBURY CURVE #15
PC = A 103+10.49R = 3250 FT - LT
PT = A 107+06.88V = 50 MPH

SUPERELEVATION DIAGRAM
NTS

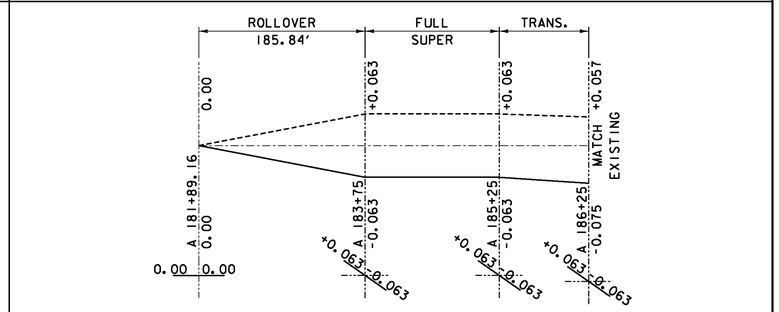
WATERBURY CURVE #16
PC = A 107+63.57 R = 10000 FT - LT
PT = A 108+96.83 V = 50 MPH



WATERBURY CURVE #25
PC = A 145+76.21 R1 = 1500 FT - LT
PCC = A 147+65.67 R2 = 2000 FT - LT
PT = A 148+62.99 V = 50 MPH

SUPERELEVATION DIAGRAM
NTS

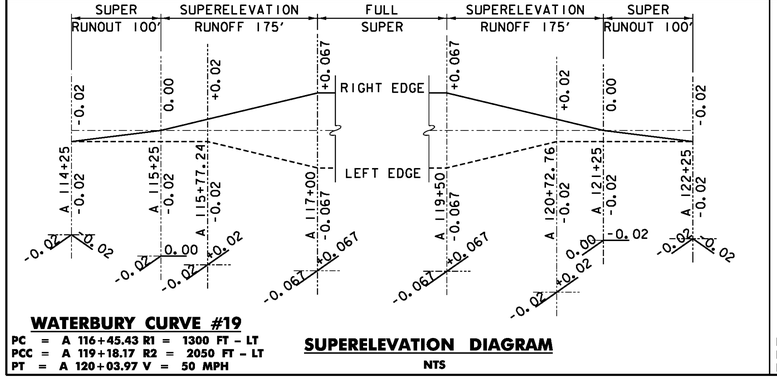
WATERBURY CURVE #26
PC = A 150+30.09 R = 15000 FT - LT
PT = A 150+90.01 V = 50 MPH



WATERBURY CURVE #32
PC = A 181+69.69 R1 = 8500 FT - LT
PT = A 182+43.67 V = 40 MPH

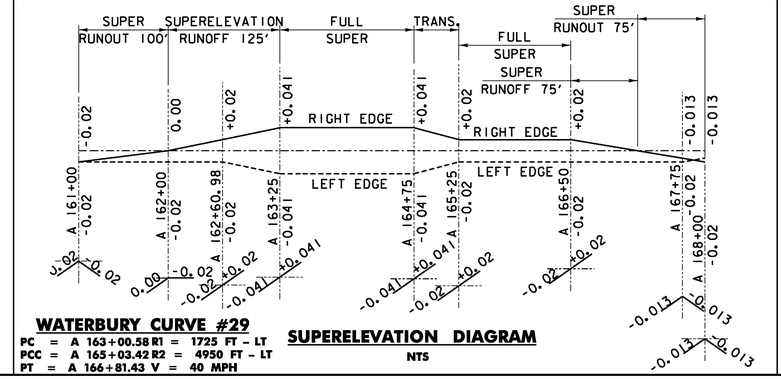
SUPERELEVATION DIAGRAM
NTS

WATERBURY CURVE #33
PC = A 182+99.00 R1 = 1200 FT - LT
PCC = A 184+14.19 R2 = 750 FT - LT
PT = A 187+48.03 V = 40 MPH



WATERBURY CURVE #19
PC = A 116+45.43 R1 = 1300 FT - LT
PCC = A 119+18.17 R2 = 2050 FT - LT
PT = A 120+03.97 V = 50 MPH

SUPERELEVATION DIAGRAM
NTS



WATERBURY CURVE #29
PC = A 163+00.58 R1 = 1725 FT - LT
PCC = A 165+03.42 R2 = 4950 FT - LT
PT = A 166+81.43 V = 40 MPH

SUPERELEVATION DIAGRAM
NTS

NOTES:

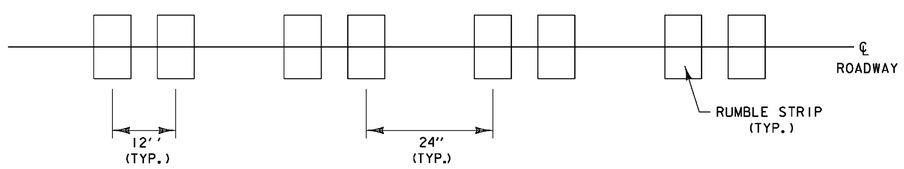
1. CURVES NOT SHOWN ON SUPERELEVATION BANKING DIAGRAM SHEETS DO NOT NEED TO BE SUPERELEVATED.
2. DIAGRAM EDGE LINES REFERS TO EDGE OF SHOULDER.

SUPERELEVATION BANKING DIAGRAM SHEET 2

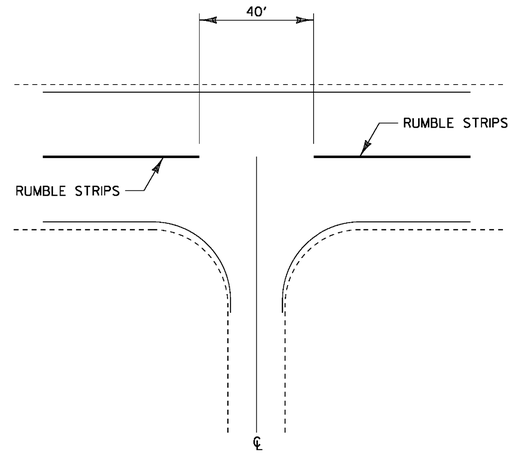
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p09C362.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p09C362_113.i

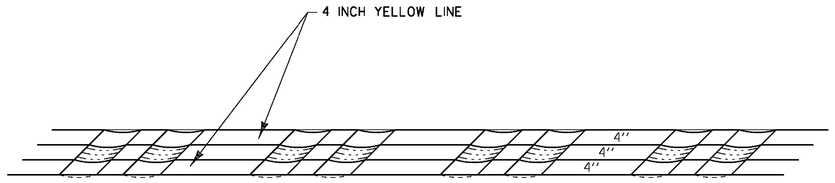
PLOT DATE: 4/16/2013
DRAWN BY: JBG
CHECKED BY: CDL
SHEET 113 OF 217



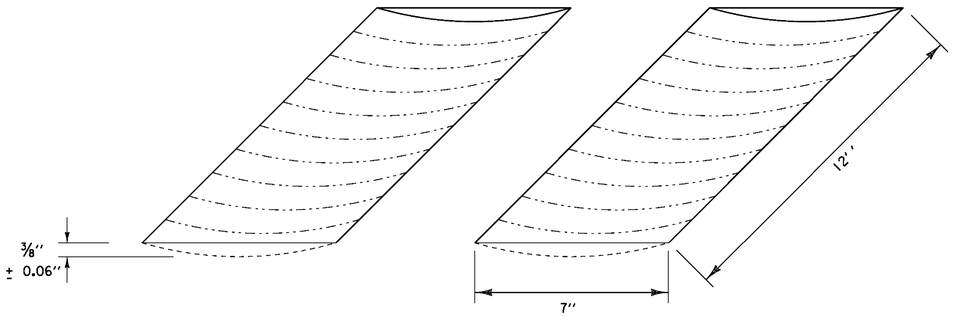
RUMBLE STRIP LAYOUT



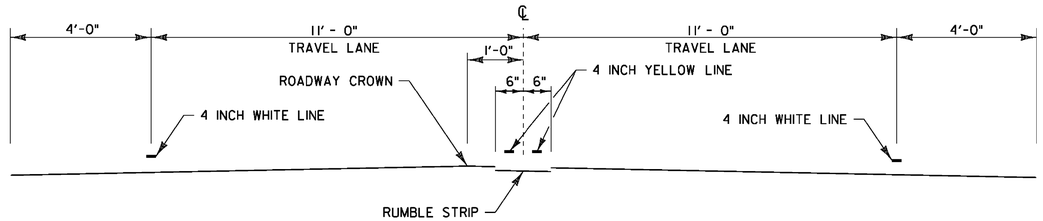
INTERSECTION DETAIL



PAVEMENT MARKINGS DETAIL



RUMBLE STRIP DETAIL



RUMBLE STRIP TYPICAL SECTION

~~BOLTON MM 3.122 - WATERBURY MM 1.444~~

~~WATERBURY MM 2.116 - WATERBURY 2.699~~

ELIMINATED FROM PROJECT

SEE WRITTEN ORDER #2

NOTES

1. CENTERLINE RUMBLE STRIPS NOT TO EXTEND BEYOND CENTERLINE WHEN CENTERLINE IS A DOUBLE YELLOW LINE, WITH OR WITHOUT A PASSING ZONE.
2. CENTERLINE RUMBLE STRIP TO BE PLACED ALONG CENTERLINE OF ROADWAY.
3. CENTERLINE RUMBLE STRIP TO STOP 20 FEET PRIOR TO THE CENTERLINE OF AN INTERSECTION.

CENTERLINE RUMBLE STRIP DETAIL SHEET #1

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

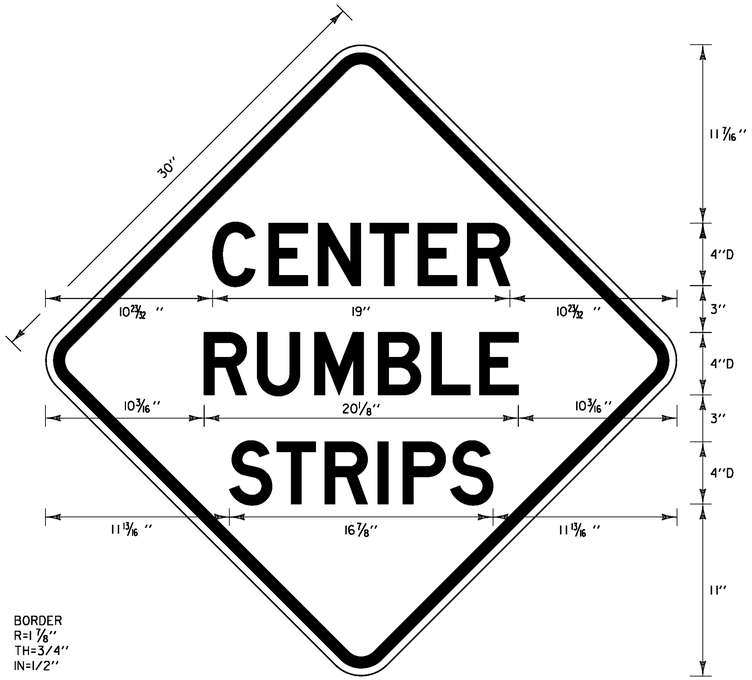
FILE NAME: 07c172\Rumble_Stripes.dgn
PROJECT LEADER: MJF
DESIGNED BY: LBB
p07c172_rsl.i

PLOT DATE: 04-JUN-2013
DRAWN BY: LBB
CHECKED BY: MJF
SHEET 114 OF 217

LOCATIONS

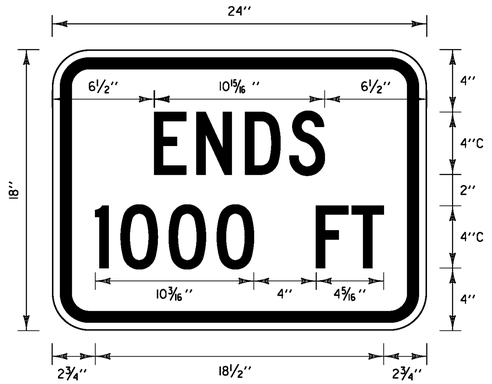
BOLTON
MM 3.122 EB

WATERBURY
MM 1.439 WB
MM 2.119 EB
MM 2.753 WB



BORDER
R=1 7/8"
TH=3/4"
IN=1/2"

BLACK TEXT WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS



BORDER
R=1 7/8"
TH=3/4"
IN=1/2"

BLACK TEXT WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATIONS

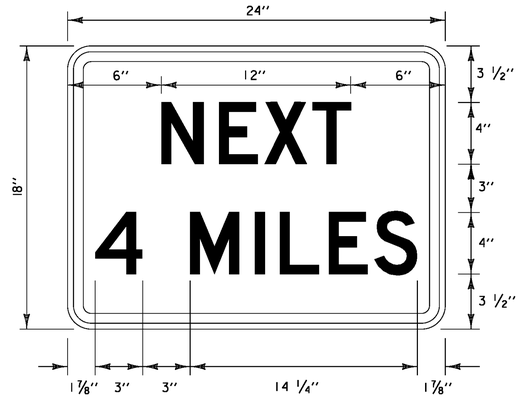
BOLTON
MM 3.311 WB

WATERBURY
MM 1.250 EB
MM 2.308 WB
MM 2.564 EB

LOCATIONS

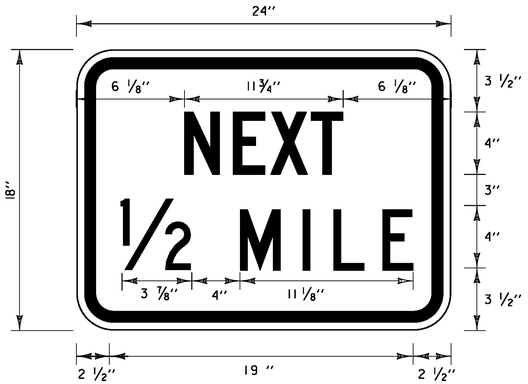
BOLTON
MM 3.122 EB

WATERBURY
MM 1.439 WB



BORDER:
R = 1 1/2''
TH = 5/8''
IN = 3/8''

BLACK TEXT WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS



BORDER:
R = 1 1/2''
TH = 5/8''
IN = 3/8''
[NEXT] C SPECIFIED LENGTH
[1/2 MILES] C SPECIFIED LENGTH
BLACK TEXT WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATIONS

WATERBURY
MM 2.119 EB
MM 2.753 WB

CENTERLINE RUMBLE STRIP DETAIL SHEET #2

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

FILE NAME: 07c172\Rumble_Stripes.dgn
PROJECT LEADER: MJF
DESIGNED BY: LBB
p07c172_rs2.i

PLOT DATE: 04-JUN-2013
DRAWN BY: LBB
CHECKED BY: MJF
SHEET 114a OF 217

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	Maximum Banking	Design Speed
Tangent	PT	98+28.12	684413.6675	1536439.633						
	PC	99+71.41	684364.9991	1536574.4						
Arc	PC	99+71.41	684364.9991	1536574.4	50000	62.54	0°04'18.01"	Right	NC	40
	PI	100+02.68	684354.3773	1536603.812						
	CC		637337.6116	1519591.325						
	PT	100+33.95	684343.7186	1536633.212						
Tangent	PT	100+33.95	684343.7186	1536633.212						
	PC	103+28.39	684243.3646	1536910.015						
Arc	PC	103+28.39	684243.3646	1536910.015	10000	50.11	0°17'13.61"	Left	NC	40
	PI	103+53.44	684234.8247	1536933.571						
	CC		693644.586	1540318.393						
	PT	103+78.50	684226.403	1536957.168						
Tangent	PT	103+78.50	684226.403	1536957.168						
	PC	104+97.31	684186.4664	1537069.071						
Arc	PC	104+97.31	684186.4664	1537069.071	8150	86.08	0°36'18.54"	Right	NC	40
	PI	105+40.35	684171.9997	1537109.607						
	CC		676510.6472	1534329.673						
	PT	105+83.39	684157.1057	1537149.987						
Tangent	PT	105+83.39	684157.1057	1537149.987						
	PC	106+31.72	684140.3809	1537195.332						
Arc	PC	106+31.72	684140.3809	1537195.332	10000	60.44	0°20'46.75"	Left	NC	40
	PI	106+61.94	684129.9224	1537223.687						
	CC		693522.5385	1540655.84						
	PT	106+92.17	684119.6356	1537252.105						
Tangent	PT	106+92.17	684119.6356	1537252.105						
	PC	107+34.96	684105.0698	1537292.343						
Arc	PC	107+34.96	684105.0698	1537292.343	50000	96.72	0°06'38.98"	Left	NC	40
	PI	107+83.32	684088.61	1537337.814						
	CC		731119.5845	1554311.021						
	PT	108+31.68	684072.2382	1537383.316						
Tangent	PT	108+31.68	684072.2382	1537383.316						
	PC	114+49.72	683862.9958	1537964.865						
Arc	PC	114+49.72	683862.9958	1537964.865	8200	55.91	0°23'26.49"	Right	NC	40
	PI	114+77.68	683853.5307	1537991.172						
	CC		676147.231	1535188.722						
	PT	115+05.64	683843.8865	1538017.413						
Tangent	PT	115+05.64	683843.8865	1538017.413						
	PC	115+16.07	683840.2866	1538027.208						
Arc	PC	115+16.07	683840.2866	1538027.208	8200	73.21	0°30'41.63"	Left	NC	40
	PI	115+52.68	683827.6586	1538061.568						
	CC		691536.942	1540855.9						
	PT	115+89.29	683815.3378	1538096.039						
Tangent	PT	115+89.29	683815.3378	1538096.039						
	PC	116+15.02	683806.6769	1538120.271						
Arc	PC	116+15.02	683806.6769	1538120.271	8150	360.1	2°31'53.58"	Right	NC	40
	PI	117+95.10	683746.0681	1538289.844						
	CC		676132.1556	1535377.239						
	PT	119+75.12	683678.0285	1538456.574						
Tangent	PT	119+75.12	683678.0285	1538456.574						
	PC	123+36.46	683541.5006	1538791.134						
Arc	PC	123+36.46	683541.5006	1538791.134	10000	80.03	0°27'30.72"	Left	NC	40
	PI	123+76.48	683526.3818	1538828.183						
	CC		692800.2404	1542569.459						
	PT	124+16.49	683511.5598	1538865.351						
Tangent	PT	124+16.49	683511.5598	1538865.351						
	PC	130+47.92	683277.6731	1539451.862						
Arc	PC	130+47.92	683277.6731	1539451.862	10500	264.54	1°26'36.70"	Left	NC	40
	PI	131+80.19	683228.6762	1539574.73						
	CC		693030.7877	1543341.175						
	PCC	133+12.46	683182.79	1539698.794						
Arc	PCC	133+12.46	683182.79	1539698.794	20000	318.35	0°54'43.22"	Left	NC	40
	PI	134+71.64	683127.5721	1539848.088						
	CC		701940.8807	1546636.663						
	PT	136+30.81	683074.7375	1539998.242						
Tangent	PT	136+30.81	683074.7375	1539998.242						
	PC	140+22.81	682944.6233	1540368.021						
Arc	PC	140+22.81	682944.6233	1540368.021	8500	59.74	0°24'09.67"	Left	NC	40
	PI	140+52.68	682934.7089	1540396.198						
	CC		690962.7342	1543189.35						
	PT	140+82.55	682924.9927	1540424.443						
Tangent	PT	140+82.55	682924.9927	1540424.443						
	PC	141+70.06	682896.528	1540507.192						
Arc	PC	141+70.06	682896.528	1540507.192	1167	98.45	4°49'59.99"	Left	0.054	40
	PI	142+19.31	682880.5072	1540553.765						
	CC		684000.0626	1540886.797						
	PCC	142+68.50	682868.4675	1540601.523						
Arc	PCC	142+68.50	682868.4675	1540601.523	675	248.23	21°04'13.56"	Left	0.072	40
	PI	143+94.04	682837.7808	1540723.247						
	CC		683522.9891	1540766.527						
	PCC	145+16.73	682852.9077	1540847.865						
Arc	PCC	145+16.73	682852.9077	1540847.865	938	148.56	9°04'27.48"	Left	0.061	40
	PI	145+91.17	682861.8771	1540921.757						
	CC		683784.0727	1540734.835						
	PT	146+65.29	682882.3881	1540993.31						
Tangent	PT	146+65.29	682882.3881	1540993.31						
	PC	148+40.57	682930.6883	1541161.804						
Arc	PC	148+40.57	682930.6883	1541161.804	2500	56.43	1°17'35.79"	Right	0.03	40
	PI	148+68.79	682938.4635	1541188.928						
	CC		680527.4779	1541850.702						
	PT	148+97.00	682945.6246	1541216.22						

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	Maximum Banking	Design Speed
Tangent	PT	148+97.00	682945.6246	1541216.22						
	PC	149+74.26	682965.2311	1541290.945						
Arc	PC	149+74.26	682965.2311	1541290.945	650	226.89	20°00'00.00"	Right	0.073	40
	PI	150+88.87	682994.3189	1541401.805						
	CC		682336.513	1541455.91						
	PCC	152+01.15	682983.7362	1541515.928						
Arc	PCC	152+01.15	682983.7362	1541515.928	750	357.06	27°16'38.21"	Right	0.069	40
	PI	153+83.13	682966.9331	1541697.13						
	CC		682236.9402	1541446.677						
	PT	155+58.21	682868.9542	1541850.482						
Tangent	PT	155+58.21	682868.9542	1541850.482						
	PC	158+52.52	682710.4945	1542098.494						
Arc	PC	158+52.52	682710.4945	1542098.494	3200	319.72	5°43'28.29"	Left	0.024	40
	PI	160+12.51	682624.3538	1542233.317						
	CC		685407.0874	1543821.395						
	PCC	161+72.24	682552.0906	1542376.06						
Arc	PCC	161+72.24	682552.0906	1542376.06	2650	298.98	6°27'51.20"	Left	0.029	40
	PI	163+21.89	682484.4996	1542509.574						
	CC		684916.3848	1543572.978						
	PT	164+71.22	682432.3696	1542649.848						
Tangent	PT	164+71.22	682432.3696	1542649.848						
	PC	165+32.58	682410.9916	1542707.374						
Arc	PC	165+32.58	682410.9916	1542707.374	25000	90.19	0°12'24.12"	Right	NC	50
	PI	165+77.68	682395.2826	1542749.645						
	CC		658976.8858	1533998.603						
	PT	166+22.78	682379.4212	1542791.858						
Tangent	PT	166+22.78	682379.4212	1542791.858						
	PC	167+41.23	682337.7576	1542902.743						
Arc	PC	167+41.23	682337.7576	1542902.743	10000	56.56	0°19'26.74"	Left	NC	50
	PI	167+69.51	682327.8098	1542929.218						
	CC		691698.7718	1546420.045						
	PT	167+97.79	682318.0119	1542955.749						
Tangent	PT	167+97.79	682318.0119	1542955.749						
	PC	170+78.27	682220.8457	1543218.86						
Arc	PC	170+78.27	682220.8457	1543218.86	30000	58.02	0°06'38.92"	Left	NC	50
	PI	171+07.28	682210.7956	1543246.074						
	CC		710363.1254	1553611.746						
	PT	171+36.29	682200.7982	1543273.307						
Tangent	PT	171+36.29	682200.7982	1543273.307						
	PC	172+13.43	682174.2169	1543345.715						
Arc	PC	172+13.43	682174.2169	1543345.715	15000	73.92	0°16'56.45"	Right	NC	50
	PI	172+50.39	682161.4802	1543380.411						
	CC		668093.0533	1538176.496						
	PT	172+87.34	682148.5727	1543415.043						
Tangent	PT	172+87.34	682148.5727	1543415.043						
	PC	174+91.81	682077.1672	1543606.631						
Arc	PC	174+91.81	682077.1672	1543606.631	25000	59.99	0°08'14.96"	Right	NC	50
	PI	175+21.80	682066.6916	1543634.738						
	CC		658651.3014	1534875.719						
	PT	175+51.80	682056.1487	1543662.819						
Tangent	PT	175+51.80	682056.1487	1543662.819						
	PC	176+22.67	682031.2368	1543729.173						
Arc	PC	176+22.67	682031.2368	1543729.173	10000	80.66	0°27'43.77"	Left	NC	50
	PI	176+63.01	682017.0611	1543766.931						
	CC		691393.1757	1547244.013						
	PT	177+03.34	682003.1904	1543804.802						
Tangent	PT	177+03.34	682003.1904	1543804.802						
	PC	177+41.83	681989.9505	1543840.95						
Arc	PC	177+41.83	681989.9505	1543840.95	10000	110.17	0°37'52.43"	Right	NC	50
	PI	177+96.92	681971.0053	1543892.676						
	CC		672599.9652	1540401.739						
	PT	178+52.00	681951.4914	1543944.189						
Tangent	PT	178+52.00	681951.4914	1543944.189						
	PC	178+78.97	681941.9393	1543969.405						
Arc	PC	178+78.97	681941.9393	1543969.405	10000	68.07	0°23'23.97"	Left	NC	50
	PI	179+13.00	681929.8832	1544001.232						
	CC		691293.4656	1547511.856						
	PT	179+47.03	681918.044	1544033.139						
Tangent	PT	179+47.03	681918.044	1544033.139						
	PC	183+37.64	681782.163	1544399.35						
Arc	PC	183+37.64	681782.163	1544399.35	30000	50.73	0°05'48.78"	Right	NC	50
	PI	183+63.01	681773.3395	1544423.13						
	CC		653655.8982	1533963.2						
	PT	183+88.37	681764.4758	1544446.895						
Tangent	PT	183+88.37	681764.4758	1544446.895						
	PC	186+59.70	681669.6579	1544701.118						
Arc	PC	186+59.70	681669.6579	1544701.118	15000	54.65	0°12'31.49"	Left	NC	50
	PI	186+87.02	681660.109	1544726.72						
	CC		695723.9467	1549942.965						
	PT	187+14.35	681650.6534	1544752.357						

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	Maximum Banking	Design Speed
Tangent	PT	187+14.35	681650.6534	1544752.357						
	PC	195+65.91	681355.9776	1545551.311						
Arc	PC	195+65.91	681355.9776	1545551.311	20000	64.14	0°11'01.53"	Right	NC	50
	PI	195+97.99	681344.8795	1545581.401						
	CC		662591.5866	1538630.5						
	PT	196+30.06	681333.6849	1545611.456						
Tangent	PT	196+30.06	681333.6849	1545611.456						
	PC	204+26.33	681055.7489	1546357.644						
Arc	PC	204+26.33	681055.7489	1546357.644	15000	68.75	0°15'45.35"	Left	NC	50
	PI	204+60.70	681043.7507	1546389.856						
	CC		695112.3226	1551593.361						
	PT	204+95.07	681031.9002	1546422.123						
Tangent	PT	204+95.07	681031.9002	1546422.123						
	PC	207+53.01	680942.9766	1546664.247						
Arc	PC	207+53.01	680942.9766	1546664.247	10000	58	0°19'56.24"	Right	NC	50
	PI	207+82.01	680932.9796	1546691.467						
	CC		671556.0284	1543216.755						
	PT	208+11.01	680922.825	1546718.629						
Tangent	PT	208+11.01	680922.825	1546718.629						
	PC	209+26.17	680882.4968	1546826.498						
Arc	PC	209+26.17	680882.4968	1546826.498	20000	59.44	0°10'13.00"	Left	NC	50
	PI	209+55.89	680872.0895	1546854.336						
	CC		699616.09	1553830.246						
	PT	209+85.61	680861.7649	1546882.204						
Tangent	PT	209+85.61	680861.7649	1546882.204						
	PC	215+33.07	680671.5748	1547395.57						
Arc	PC	215+33.07	680671.5748	1547395.57	25000	55.26	0°07'35.91"	Right	NC	50
	PI	215+60.70	680661.9765	1547421.478						
	CC		657228.6684	1538710.517						
	PT	215+88.33	680652.321	1547447.365						
Tangent	PT	215+88.33	680652.321	1547447.365						
	PC	223+14.61	680398.5031	1548127.855						
Arc	PC	223+14.61	680398.5031	1548127.855	20000	67.63	0°11'37.53"	Left	NC	50
	PI	223+48.43	680386.6848	1548159.54						
	CC		699137.4252	1555117.333						
	PT	223+82.25	680374.9737	1548191.265						
Tangent	PT	223+82.25	680374.9737	1548191.265						
	PC	229+80.28	680167.8746	1548752.289						
Arc	PC	229+80.28	680167.8746	1548752.289	20000	50.51	0°08'40.93"	Right	NC	50
	PI	230+05.53	680159.1286	1548775.981						
	CC		661405.4231	1541826.221						
	PT	230+30.79	680150.3228	1548799.652						
Tangent	PT	230+30.79	680150.3228	1548799.652						
	PC	236+23.28	679943.7383	1549354.96						
Arc	PC	236+23.28	679943.7383	1549354.96	20000	58.55	0°10'03.89"	Left	NC	50
	PI	236+52.55	679933.5302	1549382.4						
	CC		698688.638	1556328.391						
	PT	236+81.83	679923.4023	1549409.87						
Tangent	PT	236+81.83	679923.4023	1549409.87						
	PC	238+71.77	679857.697	1549588.084						
Arc	PC	238+71.77	679857.697	1549588.084	25000	55.32	0°07'36.43"	Right	NC	50
	PI	238+99.43	679848.1286	1549614.036						
	CC		656401.1524	1540939.933						
	PT	239+27.09	679838.5028	1549639.968						
Tangent	PT	239+27.09	679838.5028	1549639.968						
	PC	242+80.40	679715.5508	1549971.193						
Arc	PC	242+80.40	679715.5508	1549971.193	10000	115.18	0°39'35.83"	Right	NC	50
	PI	243+37.99	679695.5086	1550025.185						
	CC		670340.6107	1546491.179						
	PT	243+95.59	679674.8459	1550078.943						
Tangent	PT	243+95.59	679674.8459	1550078.943						
	PC	244+45.32	679657.0016	1550125.368						
Arc	PC	244+45.32	679657.0016	1550125.368	7000	439.92	3°36'02.82"	Right	RC	50
	PI	246+65.35	679578.0593	1550330.751						
	CC		673123.0369	1547613.933						
	PT	248+85.24	679486.374	1550530.771						
Tangent	PT	248+85.24	679486.374	1550530.771						
	PC	251+76.54	679364.9941	1550795.572						
Arc	PC	251+76.54	679364.9941	1550795.572	3700	1038.62	16°05'00.28"	Left	0.031	50
	PI	256+99.28	679147.1698	1551270.775						
	CC		682728.4723	1552337.329						
	PT	262+15.16	679069.5198	1551787.723						
Tangent	PT	262+15.16	679069.5198	1551787.723						
	PC	272+35.02	678918.0277	1552796.269						
Arc	PC	272+35.02	678918.0277	1552796.269	50000	51.19	0°03'31.18"	Right	NC	50
	PI	272+60.61	678914.2258	1552821.58						
	CC		629472.723	1545369.167						
	PT	272+86.21	678910.3979	1552846.887						

PC - POINT OF CURVATURE
PCC - POINT OF COMPOUND CURVE
PT - POINT OF TANGENCY
PI - POINT OF INTERSECTION
CC - RADIUS POINT

HORIZONTAL ALIGNMENT TABLE SHEET 1

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_115.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 115 OF 217

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	Maximum Banking	Design Speed
Tangent	PT	272+86.21	678910.3979	1552846.887						
	PC	276+81.53	678851.2752	1553237.767						
Arc	PC	276+81.53	678851.2752	1553237.767	20000	52.97	0°09'06.34"	Left	NC	50
	PI	277+08.02	678847.3139	1553263.956						
	CC		698626.3452	1556228.855						
	PT	277+34.51	678843.422	1553290.156						
Tangent	PT	277+34.51	678843.422	1553290.156						
	PC	280+58.74	678795.7805	1553610.872						
Arc	PC	280+58.74	678795.7805	1553610.872	10000	50.39	0°17'19.39"	Right	NC	50
	PI	280+83.94	678792.0783	1553635.795						
	CC		668904.3189	1552141.523						
	PT	281+09.13	678788.2507	1553660.698						
Tangent	PT	281+09.13	678788.2507	1553660.698						
	PC	284+35.01	678738.7441	1553982.794						
Arc	PC	284+35.01	678738.7441	1553982.794	10000	55.96	0°19'14.22"	Right	NC	50
	PI	284+62.99	678734.4936	1554010.448						
	CC		668854.8123	1552463.619						
	PT	284+90.97	678730.0884	1554038.078						
Tangent	PT	284+90.97	678730.0884	1554038.078						
	PC	286+08.18	678711.6349	1554153.821						
Arc	PC	286+08.18	678711.6349	1554153.821	2375	936.83	22°36'01.70"	Right	0.045	50
	PI	290+82.76	678636.9139	1554622.484						
	CC		676366.2568	1553779.887						
	PT	295+45.00	678387.8224	1555026.441						
Tangent	PT	295+45.00	678387.8224	1555026.441						
	PC	298+09.50	678248.9969	1555251.578						
Arc	PC	298+09.50	678248.9969	1555251.578	5000	104.49	1°11'50.35"	Left	0.024	50
	PI	298+61.74	678221.5755	1555296.048						
	CC		682504.9244	1557875.903						
	PT	299+13.98	678195.0892	1555341.081						
Tangent	PT	299+13.98	678195.0892	1555341.081						
Back		299+71.00	678166.1839	1555390.227						
Ahead		A 0+00.00								
Tangent	PC	A 0+17.04	678157.5469	1555404.913						
	PC	A 0+17.04	678157.5469	1555404.913						
Arc	PI	A 1+24.68	678102.9739	1555497.7	1666	214.99	7°23'38.13"	Left	0.06	50
	CC		679593.584	1556249.515						
	PCC	A 2+32.03	678060.7955	1555596.74						
	PCC	A 2+32.03	678060.7955	1555596.74						
Arc	PI	A 5+56.35	677933.7198	1555895.128	1555	639.47	23°33'43.69"	Left	0.06	50
	CC		679491.4594	1556206.023						
	PCC	A 8+71.50	677936.5173	1556219.436						
	PCC	A 8+71.50	677936.5173	1556219.436						
Arc	PI	A 11+12.11	677938.5927	1556460.034	1586	477.57	17°15'09.88"	Left	0.06	50
	CC		679522.4583	1556205.755						
	PCC	A 13+49.08	678011.933	1556689.19						
	PCC	A 13+49.08	678011.933	1556689.19						
Arc	PI	A 14+64.13	678047.0044	1556798.773	2158	229.9	6°06'14.10"	Left	0.048	50
	CC		680067.2379	1556031.402						
	PT	A 15+78.98	678093.5291	1556904.006						
Tangent	PT	A 15+78.98	678093.5291	1556904.006						
	PC	A 19+52.07	678244.3926	1557245.238						
Arc	PC	A 19+52.07	678244.3926	1557245.238	10000	61.8	0°21'14.70"	Left	NC	50
	PI	A 19+82.97	678256.8871	1557273.499						
	CC		687390.4017	1553201.661						
	PT	A 20+13.87	678269.556	1557301.682						
Tangent	PT	A 20+13.87	678269.556	1557301.682						
	PC	A 20+99.67	678304.7352	1557379.941						
Arc	PC	A 20+99.67	678304.7352	1557379.941	10000	95.91	0°32'58.30"	Right	NC	50
	PI	A 21+47.63	678324.3972	1557423.681						
	CC		669183.8895	1561479.962						
	PT	A 21+95.58	678343.6388	1557467.607						
Tangent	PT	A 21+95.58	678343.6388	1557467.607						
	PC	A 24+48.96	678445.3042	1557699.698						
Arc	PC	A 24+48.96	678445.3042	1557699.698	2900	1099.11	21°42'54.89"	Right	0.038	50
	PI	A 30+05.19	678668.4826	1558209.188						
	CC		675788.9769	1558863.281						
	PT	A 35+48.07	678687.3144	1558765.097						
Tangent	PT	A 35+48.07	678687.3144	1558765.097						
	PC	A 40+10.35	678702.9655	1559227.115						
Arc	PC	A 40+10.35	678702.9655	1559227.115	10000	116.73	0°40'07.73"	Left	NC	50
	PI	A 40+68.72	678704.9416	1559285.447						
	CC		688697.2326	1558888.552						
	PT	A 41+27.08	678707.5984	1559343.752						
Tangent	PT	A 41+27.08	678707.5984	1559343.752						
	PC	A 42+17.83	678711.7294	1559434.41						
Arc	PC	A 42+17.83	678711.7294	1559434.41	5250	591.77	6°27'29.60"	Left	0.023	50
	PI	A 45+14.03	678725.2123	1559730.299						
	CC		683956.2874	1559195.43						
	PT	A 48+09.60	678771.8908	1560022.795						

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	Maximum Banking	Design Speed
Tangent	PT	A 48+09.60	678771.8908	1560022.795						
	PC	A 51+52.18	678825.8791	1560361.094						
Arc	PC	A 51+52.18	678825.8791	1560361.094	770	853	63°28'19.53"	Right	0.08	50
	PI	A 56+28.41	678900.93	1560831.374						
	CC		678065.501	1560482.441						
	PT	A 60+05.18	678513.6825	1561108.566						
Tangent	PT	A 60+05.18	678513.6825	1561108.566						
	PC	A 62+58.69	678307.5481	1561256.118						
Arc	PC	A 62+58.69	678307.5481	1561256.118	1145	217.91	10°54'14.59"	Left	0.071	50
	PI	A 63+67.97	678218.6842	1561319.727						
	CC		678973.9999	1562187.175						
	PCC	A 64+76.59	678143.4573	1561398.997						
	PCC	A 64+76.59	678143.4573	1561398.997						
Arc	PI	A 66+49.78	678024.2404	1561524.622	875	341.96	22°23'30.00"	Left	0.078	50
	CC		678778.1514	1562001.316						
	PCC	A 68+18.55	677961.8673	1561686.189						
	PCC	A 68+18.55	677961.8673	1561686.189						
Arc	PI	A 68+88.17	677936.7934	1561751.138	2395	139.2	3°19'48.70"	Left	0.044	50
	CC		680196.1534	1562548.738						
	PT	A 69+57.75	677915.5347	1561817.435						
Tangent	PT	A 69+57.75	677915.5347	1561817.435						
	PC	A 70+22.86	677895.6558	1561879.429						
Arc	PC	A 70+22.86	677895.6558	1561879.429	10000	53.59	0°18'25.47"	Left	NC	50
	PI	A 70+49.65	677887.4733	1561904.946						
	CC		687418.0723	1564932.883						
	PT	A 70+76.45	677879.4278	1561930.507						
Tangent	PT	A 70+76.45	677879.4278	1561930.507						
	PC	A 73+75.17	677789.74	1562215.448						
Arc	PC	A 73+75.17	677789.74	1562215.448	20000	81.4	0°13'59.54"	Right	NC	50
	PI	A 74+15.88	677777.5198	1562254.273						
	CC		658712.451	1556210.697						
	PT	A 74+56.58	677765.1416	1562293.047						
Tangent	PT	A 74+56.58	677765.1416	1562293.047						
	PC	A 75+22.54	677745.0809	1562355.886						
Arc	PC	A 75+22.54	677745.0809	1562355.886	1500	283.25	10°49'10.00"	Right	0.062	50
	PI	A 76+64.59	677701.8814	1562491.206						
	CC		676316.1291	1561899.71						
	PCC	A 78+05.79	677634.0483	1562616.012						
	PCC	A 78+05.79	677634.0483	1562616.012						
Arc	PI	A 79+48.55	677565.8781	1562741.438	2550	285.21	6°24'30.20"	Right	0.042	50
	CC		675393.5857	1561398.298						
	PT	A 80+91.00	677484.1345	1562858.471						
Tangent	PT	A 80+91.00	677484.1345	1562858.471						
	PC	A 85+79.30	677204.5311	1563258.783						
Arc	PC	A 85+79.30	677204.5311	1563258.783	100000	62.06	0°02'08.01"	Left	NC	50
	PI	A 86+10.33	677186.7626	1563284.222						
	CC		759186.8403	1620520.472						
	PT	A 86+41.36	677169.01	1563309.673						
Tangent	PT	A 86+41.36	677169.01	1563309.673						
	PC	A 92+77.67	676804.9719	1563831.56						
Arc	PC	A 92+77.67	676804.9719	1563831.56	10000	146.32	0°50'18.08"	Left	NC	50
	PI	A 93+50.83	676763.1156	1563891.566						
	CC		685006.7549	1569552.64						
	PT	A 94+23.99	676722.1418	1563952.177						
Tangent	PT	A 94+23.99	676722.1418	1563952.177						
	PC	A 100+83.94	676352.5379	1564498.922						
Arc	PC	A 100+83.94	676352.5379	1564498.922	10000	79.89	0°27'27.76"	Left	NC	50
	PI	A 101+23.88	676330.168	1564532.014						
	CC		684637.1511	1570099.385						
	PT	A 101+63.82	676308.0632	1564565.282						
Tangent	PT	A 101+63.82	676308.0632	1564565.282						
	PC	A 103+10.49	676226.8953	1564687.444						
Arc	PC	A 103+10.49	676226.8953	1564687.444	3250	396.39	6°59'17.02"	Left	0.034	50
	PI	A 105+08.93	676117.0773	1564852.725						
	CC		678933.8489	1566486.027						
	PT	A 107+06.88	676028.1836	1565030.139						
Tangent	PT	A 107+06.88	676028.1836	1565030.139						
	PC	A 107+63.57	676002.7875	1565080.825						
Arc	PC	A 107+63.57	676002.7875	1565080.825	10000	133.26	0°45'48.73"	Left	NC	50
	PI	A 108+30.20	675972.9387	1565140.397						
	CC		684943.296	1569560.48						
	PT	A 108+96.83	675943.8864	1565200.362						
Tangent	PT	A 108+96.83	675943.8864	1565200.362						
	PC	A 110+94.52	675857.6899	1565378.274						
Arc	PC	A 110+94.52	675857.6899	1565378.274	10000	63.83	0°21'56.49"	Left	NC	50
	PI	A 111+26.44	675843.7756	1565406.994						
	CC		684857.0995	1569738.392						
	PT	A 111+58.35	675830.0449	1565435.801						

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	Maximum Banking	Design Speed
Tangent	PT	A 111+58.35	675830.0449	1565435.801						
	PC	A 113+48.35	675748.2936	1565607.32						
Arc	PC	A 113+48.35	675748.2936	1565607.32	50000	52.29	0°03'35.72"	Left	NC	50
	PI	A 113+74.50	675737.0441	1565630.922						
	CC		720883.5667	1587120.272						
	PT	A 114+00.65	675725.8193	1565654.536						
Tangent	PT	A 114+00.65	675725.8193	1565654.536						
	PC	A 116+45.43	675620.7287	1565875.616						
Arc	PC	A 116+45.43	675620.7287	1565875.616	1300	272.74	12°01'13.88"	Left	0.067	50
	PI	A 117+82.30	675561.9681	1565999.232						
	CC		676794.8302	1566433.725						
	PCC	A 119+18.17	675530.2402	1566132.374						
	PCC	A 119+18.17	675530.2402	1566132.374						
Arc	PI	A 119+61.07	675520.2946	1566174.11	2050	85.8	2°23'52.57"	Left	0.067	50
	CC		677524.4013	1566607.581						
	PT	A 120+03.97	675512.104	1566216.226						
Tangent	PT	A 120+03.97	675512.104	1566216.226						
	PC	A 124+54.44	675426.1069	1566658.411						
Arc	PC	A 124+54.44	675426.1069	1566658.411	15000	66.99	0°15'21.18"	Right	NC	50
	PI	A 124+87.93	675419.7125	1566691.29						
	CC		660701.9801	1563794.831						
	PT	A 125+21.43	675413.1713	1566724.14						
Tangent	PT	A 125+21.43	675413.1713	1566724.14						
	PC	A 128+03.21	675358.1422	1567000.5						
Arc	PC	A 128+03.21	675358.1422	1567000.5	10000	64.26	0°22'05.48"	Left	NC	50
	PI	A 128+35.34	675351.8675	1567032.012						
	CC		685165.6031	1568953.372						
	PT	A 128+67.47	675345.7954	1567063.563						
Tangent	PT	A 128+67.47	675345.7954	1567063.563						
	PC	A 129+24.03	675335.1067	1567119.104						
Arc	PC	A 129+24.03	675335.1067	1567119.104	10000	71.91	0°24'43.34"	Right	NC	50
	PI	A 129+59.99	675328.3115	1567154.413						
	CC		665515.2991	1565229.295						
	PT	A 129+95.95	675321.2625	1567189.673						
Tangent	PT	A 129+95.95	675321.2625	1567189.673						
	PC	A 131+99.92	675281.2756	1567389.69						
Arc	PC	A 131+99.92	675281.2756	1567389.69	1800	388.37	12°21'43.88"	Right	0.055	50
	PI	A 133+94.86	675243.0597	1567580.849						
	CC		673516.2022	1567036.822						
	PT	A 135+88.29	675164.8045	1567759.395						
Tangent	PT	A 135+88.29	675164.8045	1567759.395						
	PC	A 137+16.82	675113.2089	1567877.114						
Arc	PC	A 137+16.82	675113.2089	1567877.114	1610	200.74	7°08'38.22"	Right	0.059	50
	PI	A 138+17.32	675072.8645	1567969.162						
	CC		673638.6258	1567230.813						
	PCC	A 139+17.56	675021.3858	1568055.479						
	PCC	A 139+17.56	675021.3858	1568055.479						
Arc	PI	A 140+44.42	674956.4064	1568164.434	1160	252.72	12°28'56.41"	Right	0.071	50
	CC		674025.1115	1567461.31						
	PCC	A 141+70.28	674869.4136	1568256.768						
	PCC	A 141+70.28	674869.4136	1568256.768						
Arc	PI	A 142+60.77	674807.3592	1568322.633	1014	180.51	10°11'58.19"	Right	0.075	50
	CC		674131.3771	1567561.428						
	PT	A 143+50.79	674734.6223	1568376.468						
Tangent	PT	A 143+50.79	674734.6223	1568376.468						
	PC	A 145+76.21	674553.4323	1568510.575						
Arc	PC	A 145+76.21	674553.4323	1568510.575	1500	189.46	7°14'12.52"	Left	0.062	50
	PI	A 146+71.06	674477.1884	1568567.006						
	CC		675445.8069	1569716.256						
	PCC	A 147+65.67	674408.6606	1568632.592						
	PCC	A 147+65.67	674408.6606	1568632.592						
Arc	PI	A 148+14.34	674373.4997	1568666.244	2000	97.32	2°47'16.82"	Left	0.062	50
	CC		675791.5223	1570077.477						
	PT	A 148+62.99	674340.0172	1568701.566						
Tangent	PT	A 148+62.99	674340.0172	1568701.566						
	PC	A 150+30.09	674225.0579	1568822.841						
Arc	PC	A 150+30.09	674225.0579	1568822.841	15000	59.92	0°13'43.97"	Left	NC	50
	PI	A 150+60.05	674204.4464	1568844.585						
	CC		685111.3463	1579142.178						
	PT	A 150+90.01	674183.9219	1568866.411						
Tangent	PT	A 150+90.01	674183.9219	1568866.411						
	PC	A 153+43.47	674010.2858	1569051.058						
Arc	PC	A 153+43.47	674010.2858	1569051.058	10000	80.66	0°27'43.73"	Right	NC	50
	PI	A 153+83.80	673982.6576	1569080.439						
	CC		666725.3362	1562200.547						
	PT	A 154+24.13	673954.7934	1569109.595						

PC - POINT OF CURVATURE
PCC - POINT OF COMPOUND CURVE
PT - POINT OF TANGENCY

PI - POINT OF INTERSECTION
CC - RADIUS POINT

HORIZONTAL ALIGNMENT TABLE SHEET 2

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_116.i

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 116 OF 217

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	Maximum Banking	Design Speed
Tangent	PT	A 154+24.13	673954.7934	1569109.595						
	PC	A 155+24.09	673885.7355	1569181.856						
Arc	PC	A 155+24.09	673885.7355	1569181.856	20000	66.21	0°11'22.84"	Right	NC	50
	PI	A 155+57.19	673862.863	1569205.789						
	CC		659426.8212	1555363.759						
	PT	A 155+90.30	673839.9113	1569229.646						
Tangent	PT	A 155+90.30	673839.9113	1569229.646						
	PC	A 163+00.58	673347.4772	1569741.514						
Arc	PC	A 163+00.58	673347.4772	1569741.514	1725	202.84	6°44'14.41"	Left	0.041	40
	PI	A 164+02.12	673277.0819	1569814.687						
	CC		674590.6062	1570937.447						
	PCC	A 165+03.42	673215.7574	1569895.614						
Arc	PCC	A 165+03.42	673215.7574	1569895.614	4950	178.01	2°03'37.50"	Left	RC	40
	PI	A 165+92.43	673161.9969	1569966.558						
	CC		677160.9757	1572885.221						
	PT	A 166+81.43	673110.8218	1570039.39						
Tangent	PT	A 166+81.43	673110.8218	1570039.39						
	PC	A 169+01.81	672984.1202	1570219.711						
Arc	PC	A 169+01.81	672984.1202	1570219.711	5025	254.34	2°54'00.00"	Right	RC	40
	PI	A 170+29.01	672910.9931	1570323.784						
	CC		668872.6003	1567330.761						
	PCC	A 171+56.15	672832.6943	1570424.025						
Arc	PCC	A 171+56.15	672832.6943	1570424.025	12100	126.47	0°35'55.93"	Right	NC	40
	PI	A 172+19.38	672793.7675	1570473.86						
	CC		663296.9456	1562975.569						
	PT	A 172+82.62	672754.3218	1570523.286						
Tangent	PT	A 172+82.62	672754.3218	1570523.286						
	PC	A 176+27.25	672539.349	1570792.649						
Arc	PC	A 176+27.25	672539.349	1570792.649	671	123.14	10°30'52.04"	Left	0.076	40
	PI	A 176+88.99	672500.836	1570840.907						
	CC		673063.8035	1571211.205						
	PCC	A 177+50.39	672471.7757	1570895.382						
Arc	PCC	A 177+50.39	672471.7757	1570895.382	585	177.15	17°21'02.94"	Left	0.076	40
	PI	A 178+39.65	672429.763	1570974.137						
	CC		672987.9252	1571170.726						
	PCC	A 179+27.54	672413.1485	1571061.838						
Arc	PCC	A 179+27.54	672413.1485	1571061.838	1319	136.64	5°56'07.90"	Left	0.05	40
	PI	A 179+95.92	672400.4203	1571129.024						
	CC		673709.0979	1571307.349						
	PT	A 180+64.18	672394.708	1571197.167						
Tangent	PT	A 180+64.18	672394.708	1571197.167						
	PC	A 181+69.69	672385.8945	1571302.306						
Arc	PC	A 181+69.69	672385.8945	1571302.306	8500	73.98	0°29'55.23"	Right	NC	40
	PI	A 182+06.68	672382.8045	1571339.167						
	CC		663915.6031	1570592.26						
	PT	A 182+43.67	672379.3938	1571375.999						
Tangent	PT	A 182+43.67	672379.3938	1571375.999						
	PC	A 182+99.00	672374.2919	1571431.096						
Arc	PC	A 182+99.00	672374.2919	1571431.096	1200	115.19	5°30'00.00"	Right	NC	40
	PI	A 183+56.64	672368.9773	1571488.491						
	CC		671179.4038	1571320.45						
	PCC	A 184+14.19	672358.186	1571545.112						
Arc	PCC	A 184+14.19	672358.186	1571545.112	750	333.83	25°30'10.47"	Right	NC	40
	PI	A 185+83.92	672326.41	1571711.838						
	CC		671621.4472	1571404.698						
	PT	A 187+48.03	672225.9448	1571848.638						

PC - POINT OF CURVATURE
PCC - POINT OF COMPOUND CURVE
PT - POINT OF TANGENCY
PI - POINT OF INTERSECTION
CC - RADIUS POINT

HORIZONTAL ALIGNMENT TABLE SHEET 3

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_117.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 117 OF 217

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Linear	POVT	99+25.00	328.4	100	-0.33%				
	POVT	99+50.00	328.23						
	POB	100+00.00	328.48						
	PVI	100+25.00	328.15						
Linear	PVI	100+25.00	328.15	75	0.15%				
	POVT	100+50.00	328.19						
	PVC	101+00.00	328.26						
Symmetrical Parabola	PVC	101+00.00	328.26	50	0.15%	0.33%	279.41	0.01	
	PVI	101+25.00	328.3						
	PVT	101+50.00	328.38						
Linear	PVT	101+50.00	328.38	305	0.33%				
	POVT	102+00.00	328.55						
	POVT	102+50.00	328.71						
	POVT	103+00.00	328.88						
	POVT	103+50.00	329.04						
	POVT	104+00.00	329.2						
	POVT	104+50.00	329.37						
	PVC	104+55.00	329.39						
Symmetrical Parabola	PVC	104+55.00	329.39	100	0.33%	0.13%	511.21	-0.02	5566.73
	POVC	105+00.00	329.51						
	PVI	105+05.00	329.55						
	POVC	105+50.00	329.61						
	PVT	105+55.00	329.62						
Linear	PVT	105+55.00	329.62	145	0.13%				
	POVT	106+00.00	329.68						
	POVT	106+50.00	329.74						
	PVC	107+00.00	329.81						
Symmetrical Parabola	PVC	107+00.00	329.81	60	0.13%	0.55%	145.59	0.03	
	PVI	107+30.00	329.85						
	POVC	107+50.00	329.96						
	PVT	107+60.00	330.01						
Linear	PVT	107+60.00	330.01	70	0.55%				
	POVT	108+00.00	330.23						
	PVC	108+30.00	330.4						
Symmetrical Parabola	PVC	108+30.00	330.4	350	0.55%	-0.30%	413.98	-0.37	1451.41
	POVC	108+50.00	330.5						
	POVC	109+00.00	330.72						
	POVC	109+50.00	330.88						
	POVC	110+00.00	330.97						
	PVI	110+05.00	331.35						
	POVC	110+50.00	331.01						
	VHIGH	110+55.81	331.01						
	POVC	111+00.00	330.99						
	POVC	111+50.00	330.9						
	PVRC	111+80.00	330.83						
Symmetrical Parabola	PVRC	111+80.00	330.83	50	-0.30%	-0.09%	233.33	0.01	
	POVC	112+00.00	330.77						
	PVI	112+05.00	330.75						
	PVT	112+30.00	330.73						
Linear	PVT	112+30.00	330.73	55	-0.09%				
	POVT	112+50.00	330.71						
	PVC	112+85.00	330.68						
Symmetrical Parabola	PVC	112+85.00	330.68	190	-0.09%	-0.75%	286.02	-0.16	1719.53
	POVC	113+00.00	330.66						
	POVC	113+50.00	330.55						
	PVI	113+80.00	330.6						
	POVC	114+00.00	330.35						
	POVC	114+50.00	330.06						
	PVRC	114+75.00	329.89						
Symmetrical Parabola	PVRC	114+75.00	329.89	50	-0.75%	-0.33%	118.45	0.03	
	PVI	115+00.00	329.7						
	POVC	115+00.00	329.73						
	PVT	115+25.00	329.62						
Linear	PVT	115+25.00	329.62	205	-0.33%				
	POVT	115+50.00	329.54						
	POVT	116+00.00	329.37						
	POVT	116+50.00	329.21						
	POVT	117+00.00	329.04						
	PVC	117+30.00	328.95						
Symmetrical Parabola	PVC	117+30.00	328.95	150	-0.33%	0.40%	206.08	0.14	
	POVC	117+50.00	328.89						
	VLOW	117+97.57	328.84						
	POVC	118+00.00	328.84						
	PVI	118+05.00	328.7						
	POVC	118+50.00	328.9						
	PVRC	118+80.00	329						
Symmetrical Parabola	PVRC	118+80.00	329	100	0.40%	0.09%	319.44	-0.04	3497.29
	POVC	119+00.00	329.07						
	PVI	119+30.00	329.2						
	POVC	119+50.00	329.2						
	PVT	119+80.00	329.24						
Linear	PVT	119+80.00	329.24	40	0.09%				
	POVT	120+00.00	329.26						
	PVC	120+20.00	329.28						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	120+20.00	329.28	50	0.09%	0.35%	192.9	0.02	
	PVI	120+45.00	329.3						
	POVC	120+50.00	329.33						
	PVT	120+70.00	329.39						
Linear	PVT	120+70.00	329.39	80	0.35%				
	POVT	121+00.00	329.49						
	PVC	121+50.00	329.66						
Symmetrical Parabola	PVC	121+50.00	329.66	50	0.35%	0.28%	795.92	0	17203.31
	PVI	121+75.00	329.75						
	PVT	122+00.00	329.82						
Linear	PVT	122+00.00	329.82	100	0.28%				
	POVT	122+50.00	329.96						
	PVC	123+00.00	330.1						
Symmetrical Parabola	PVC	123+00.00	330.1	350	0.28%	2.31%	172.41	0.89	
	POVC	123+50.00	330.32						
	POVC	124+00.00	330.68						
	POVC	124+50.00	331.18						
	PVI	124+75.00	330.6						
	POVC	125+00.00	331.83						
	POVC	125+50.00	332.63						
	POVC	126+00.00	333.56						
	PVT	126+50.00	334.65						
Linear	PVT	126+50.00	334.65	110	2.31%				
	POVT	127+00.00	335.81						
	POVT	127+50.00	336.96						
	PVC	127+60.00	337.19						
Symmetrical Parabola	PVC	127+60.00	337.19	100	2.31%	1.73%	170.08	-0.07	1885.47
	POVC	128+00.00	338.07						
	PVI	128+10.00	338.35						
	POVC	128+50.00	339.04						
	PVT	128+60.00	339.21						
Linear	PVT	128+60.00	339.21	55	1.73%				
	POVT	129+00.00	339.9						
	PVC	129+15.00	340.16						
Symmetrical Parabola	PVC	129+15.00	340.16	300	1.73%	1.52%	1444.9	-0.08	5347.39
	POVC	129+50.00	340.76						
	POVC	130+00.00	341.6						
	POVC	130+50.00	342.43						
	PVI	130+65.00	342.75						
	POVC	131+00.00	343.24						
	POVC	131+50.00	344.03						
	POVC	132+00.00	344.8						
	PVT	132+15.00	345.03						
Linear	PVT	132+15.00	345.03	40	1.52%				
	POVT	132+50.00	345.56						
	PVC	132+55.00	345.63						
Symmetrical Parabola	PVC	132+55.00	345.63	180	1.52%	0.73%	227.68	-0.18	1455
	POVC	133+00.00	346.27						
	PVI	133+45.00	347						
	POVC	133+50.00	346.88						
	POVC	134+00.00	347.37						
	PVT	134+35.00	347.65						
Linear	PVT	134+35.00	347.65	55	0.73%				
	POVT	134+50.00	347.76						
	PVC	134+90.00	348.05						
Symmetrical Parabola	PVC	134+90.00	348.05	260	0.73%	2.30%	165.54	0.51	
	POVC	135+00.00	348.13						
	POVC	135+50.00	348.6						
	POVC	136+00.00	349.22						
	PVI	136+20.00	349						
	POVC	136+50.00	349.99						
	POVC	137+00.00	350.91						
	PVT	137+50.00	351.99						
Linear	PVT	137+50.00	351.99	30	2.30%				
	PVC	137+80.00	352.68						
Symmetrical Parabola	PVC	137+80.00	352.68	620	2.30%	-2.08%	141.63	-3.39	552.88
	POVC	138+00.00	353.12						
	POVC	138+50.00	354.11						
	POVC	139+00.00	354.93						
	POVC	139+50.00	355.56						
	POVC	140+00.00	356.02						
	POVC	140+50.00	356.31						
	PVI	140+90.00	359.8						
	POVC	141+00.00	356.41						
	VHIGH	141+05.45	356.42						
	POVC	141+50.00	356.35						
	POVC	142+00.00	356.1						
	POVC	142+50.00	355.68						
	POVC	143+00.00	355.08						
	POVC	143+50.00	354.3						
	PVT	144+00.00	353.35						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Linear	PVT	144+00.00	353.35	165	-2.08%				
	POVT	144+50.00	352.31						
	POVT	145+00.00	351.27						
	POVT	145+50.00	350.23						
	PVC	145+65.00	349.92						
Symmetrical Parabola	PVC	145+65.00	349.92	430	-2.08%	1.21%	130.75	1.77	
	POVC	146+00.00	349.24						
	POVC	146+50.00	348.43						
	POVC	147+00.00	347.81						
	POVC	147+50.00	347.38						
	PVI	147+80.00	345.45						
	POVC	148+00.00	347.15						
	VLOW	148+36.93	347.09						
	POVC	148+50.00	347.1						
	POVC	149+00.00	347.25						
	POVC	149+50.00	347.58						
	PVT	149+95.00	348.05						
Linear	PVT	149+95.00	348.05	120	1.21%				
	POVT	150+00.00	348.11						
	POVT	150+50.00	348.71						
	POVT	151+00.00	349.32						
	PVI	151+15.00	349.5						
Linear	PVI	151+15.00	349.5	52.58	0.77%				
	POVT	151+50.00	349.77						
	PVI	151+67.58	349.91						
Linear	PVI	151+67.58	349.91	105.01	1.18%				
	POVT	152+00.00	350.29						
	POVT	152+50.00	350.87						
	PVI	152+72.60	351.14						
Linear	PVI	152+72.60	351.14	52.4	1.74%				
	POVT	153+00.00	351.62						
	PVI	153+25.00	352.05						
Linear	PVI	153+25.00	352.05	35	1.76%				
	POVT	153+50.00	352.49						
	PVC	153+60.00	352.67						
Symmetrical Parabola	PVC	153+60.00	352.67	100	1.76%	1.29%	208.77	-0.06	2302.96
	POVC	154+00.00	353.34						
	PVI	154+10.00	353.55						
	POVC	154+50.00	354.06						
	PVT	154+60.00	354.19						
Linear	PVT	154+60.00	354.19	310	1.29%				
	POVT	155+00.00	354.71						
	POVT	155+50.00	355.35						
	POVT	156+00.00	355.99						
	POVT	156+50.00	356.64						
	POVT	157+00.00	357.28						
	POVT	157+50.00	357.92						
	PVC	157+70.00	358.18						
Symmetrical Parabola	PVC	157+70.00	358.18	50	1.29%	1.12%	300	-0.01	6499.9
	PVI	157+95.00	358.5						
	POVC	158+00.00	358.55						
	PVT	158+20.00	358.78						
Linear	PVT	158+20.00	358.78	20	1.12%				
	PVC	158+40.00	359						
Symmetrical Parabola	PVC	158+40.00	359	330	1.12%	-0.74%	177.44	-0.77	745.25
	POVC	158+50.00	359.11						
	POVC	159+00.00	359.57						
	POVC	159+50.00	359.89						
	POVC	160+00.00	360.07						
	PVI	160+05.00	360.85						
	VHIGH	160+38.56	360.11						
	POVC	160+50.00	360.11						
	POVC	161+00.00	360.01						
	POVC	161+50.00	359.76						
	PVT	161+70.00	359.63						
Linear	PVT	161+70.00	359.63	80	-0.74%				
	POVT	162+00.00	359.41						
	PVC	162+50.00	359.04						
Symmetrical Parabola	PVC	162+50.00	359.04	50	-0.74%	-0.84%	493.27	-0.01	10671.23
	PVI	162+75.00	358.85						
	PVT	163+00.00	358.64						
Linear	PVT	163+00.00	358.64	65	-0.84%				
	POVT	163+50.00	358.22						
	PVC	163+65.00	358.09						
Symmetrical Parabola	PVC	163+65.00	358.09	200	-0.84%	-1.14%	665	-0.08	3688.17
	POVC	164+00.00	357.79						
	POVC	164+50.00	357.32						
	PVI	164+65.00	357.25						
	POVC	165+00.00	356.82						
	POVC	165+50.00	356.28						
	PVT	165+65.00	356.11						

PVC - POINT OF VERTICAL CURVATURE
PVT - POINT OF VERTICAL TANGENCY
PVI - POINT OF VERTICAL INTERSECTION
POVT - POINT ON VERTICAL TANGENT
POVT - POINT ON VERTICAL CURVE

SEE SHEET 118R FOR REVISED TABLE

VERTICAL ALIGNMENT TABLE SHEET 1

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_118.I
PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 118 OF 217

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Linear	POVT	99+25.00	328.4	100	-0.33%				
	POVT	99+50.00	328.23						
	POB	100+00.00	328.48						
	PVI	100+25.00	328.15						
Linear	PVI	100+25.00	328.15	75	0.15%				
	POVT	100+50.00	328.19						
	PVC	101+00.00	328.26						
Symmetrical Parabola	PVC	101+00.00	328.26	50	0.15%	0.33%	279.41	0.01	
	PVI	101+25.00	328.3						
	PVT	101+50.00	328.38						
Linear	PVT	101+50.00	328.38	305	0.33%				
	POVT	102+00.00	328.55						
	POVT	102+50.00	328.71						
	POVT	103+00.00	328.88						
	POVT	103+50.00	329.04						
	POVT	104+00.00	329.2						
	POVT	104+50.00	329.37						
	PVC	104+55.00	329.39						
Symmetrical Parabola	PVC	104+55.00	329.39	100	0.33%	0.13%	511.21	-0.02	5566.73
	POVC	105+00.00	329.51						
	PVI	105+05.00	329.55						
	POVC	105+50.00	329.61						
	PVT	105+55.00	329.62						
Linear	PVT	105+55.00	329.62	145	0.13%				
	POVT	106+00.00	329.68						
	POVT	106+50.00	329.74						
	PVC	107+00.00	329.81						
Symmetrical Parabola	PVC	107+00.00	329.81	60	0.13%	0.55%	145.59	0.03	
	PVI	107+30.00	329.85						
	POVC	107+50.00	329.96						
	PVT	107+60.00	330.01						
Linear	PVT	107+60.00	330.01	70	0.55%				
	POVT	108+00.00	330.23						
	PVC	108+30.00	330.4						
Symmetrical Parabola	PVC	108+30.00	330.4	350	0.55%	-0.30%	413.98	-0.37	1451.41
	POVC	108+50.00	330.5						
	POVC	109+00.00	330.72						
	POVC	109+50.00	330.88						
	POVC	110+00.00	330.97						
	PVI	110+05.00	331.35						
	POVC	110+50.00	331.01						
	VHIGH	110+55.81	331.01						
	POVC	111+00.00	330.99						
	POVC	111+50.00	330.9						
	PVRC	111+80.00	330.83						
Symmetrical Parabola	PVRC	111+80.00	330.83	50	-0.30%	-0.09%	233.33	0.01	
	POVC	112+00.00	330.77						
	PVI	112+05.00	330.75						
	PVT	112+30.00	330.73						
Linear	PVT	112+30.00	330.73	55	-0.09%				
	POVT	112+50.00	330.71						
	PVC	112+85.00	330.68						
Symmetrical Parabola	PVC	112+85.00	330.68	190	-0.09%	-0.75%	286.02	-0.16	1719.53
	POVC	113+00.00	330.66						
	POVC	113+50.00	330.55						
	PVI	113+80.00	330.6						
	POVC	114+00.00	330.35						
	POVC	114+50.00	330.06						
	PVRC	114+75.00	329.89						
Symmetrical Parabola	PVRC	114+75.00	329.89	50	-0.75%	-0.33%	118.45	0.03	
	PVI	115+00.00	329.7						
	POVC	115+00.00	329.73						
	PVT	115+25.00	329.62						
Linear	PVT	115+25.00	329.62	205	-0.33%				
	POVT	115+50.00	329.54						
	POVT	116+00.00	329.37						
	POVT	116+50.00	329.21						
	POVT	117+00.00	329.04						
	PVC	117+30.00	328.95						
Symmetrical Parabola	PVC	117+30.00	328.95	150	-0.33%	0.40%	206.08	0.14	
	POVC	117+50.00	328.89						
	VLOW	117+97.57	328.84						
	POVC	118+00.00	328.84						
	PVI	118+05.00	328.7						
	POVC	118+50.00	328.9						
	PVRC	118+80.00	329						
Symmetrical Parabola	PVRC	118+80.00	329	100	0.40%	0.09%	319.44	-0.04	3497.29
	POVC	119+00.00	329.07						
	PVI	119+30.00	329.2						
	POVC	119+50.00	329.2						
	PVT	119+80.00	329.24						
Linear	PVT	119+80.00	329.24	40	0.09%				
	POVT	120+00.00	329.26						
	PVC	120+20.00	329.28						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	120+20.00	329.28	50	0.09%	0.35%	192.9	0.02	
	PVI	120+45.00	329.3						
	POVC	120+50.00	329.33						
	PVT	120+70.00	329.39						
Linear	PVT	120+70.00	329.39	80	0.35%				
	POVT	121+00.00	329.49						
	PVC	121+50.00	329.66						
Symmetrical Parabola	PVC	121+50.00	329.66	50	0.35%	0.28%	795.92	0	17203.31
	PVI	121+75.00	329.75						
	PVT	122+00.00	329.82						
Linear	PVT	122+00.00	329.82	100	0.28%				
	POVT	122+50.00	329.96						
	PVC	123+00.00	330.1						
Symmetrical Parabola	PVC	123+00.00	330.1	350	0.28%	2.31%	172.41	0.89	
	POVC	123+50.00	330.32						
	POVC	124+00.00	330.68						
	POVC	124+50.00	331.18						
	PVI	124+75.00	330.6						
	POVC	125+00.00	331.83						
	POVC	125+50.00	332.63						
	POVC	126+00.00	333.56						
	PVT	126+50.00	334.65						
Linear	PVT	126+50.00	334.65	110	2.31%				
	POVT	127+00.00	335.81						
	POVT	127+50.00	336.96						
	PVC	127+60.00	337.19						
Symmetrical Parabola	PVC	127+60.00	337.19	100	2.31%	1.73%	170.08	-0.07	1885.47
	POVC	128+00.00	338.07						
	PVI	128+10.00	338.35						
	POVC	128+50.00	339.04						
	PVT	128+60.00	339.21						
Linear	PVT	128+60.00	339.21	55	1.73%				
	POVT	129+00.00	339.9						
	PVC	129+15.00	340.16						
Symmetrical Parabola	PVC	129+15.00	340.16	300	1.73%	1.52%	1444.9	-0.08	5347.39
	POVC	129+50.00	340.76						
	POVC	130+00.00	341.6						
	POVC	130+50.00	342.43						
	PVI	130+65.00	342.75						
	POVC	131+00.00	343.24						
	POVC	131+50.00	344.03						
	POVC	132+00.00	344.8						
	PVT	132+15.00	345.03						
Linear	PVT	132+15.00	345.03	40	1.52%				
	POVT	132+50.00	345.56						
	PVC	132+55.00	345.63						
Symmetrical Parabola	PVC	132+55.00	345.63	180	1.52%	0.73%	226.78	-0.18	1449.61
	POVC	133+00.00	346.27						
	PVI	133+45.00	347						
	POVC	133+50.00	346.88						
	POVC	134+00.00	347.37						
	PVT	134+35.00	347.65						
Linear	PVT	134+35.00	347.65	70	0.73%				
	POVT	134+50.00	347.76						
	POVT	135+00.00	348.12						
	PVC	135+05.00	348.16						
Symmetrical Parabola	PVC	135+05.00	348.16	260	0.73%	2.18%	178.72	0.47	
	POVC	135+50.00	348.54						
	POVC	136+00.00	349.1						
	PVI	136+35.00	349.1						
	POVC	136+50.00	349.8						
	POVC	137+00.00	350.63						
	POVC	137+50.00	351.61						
	PVT	137+65.00	351.93						
Linear	PVT	137+65.00	351.93	35	2.18%				
	PVC	138+00.00	352.7						
Symmetrical Parabola	PVC	138+00.00	352.7	620	2.18%	-2.09%	145.25	-3.31	559.9
	POVC	138+50.00	353.7						
	POVC	139+00.00	354.53						
	POVC	139+50.00	355.19						
	POVC	140+00.00	355.68						
	POVC	140+50.00	355.99						
	POVC	141+00.00	356.13						
	PVI	141+10.00	359.45						
	VHIGH	141+16.49	356.14						
	POVC	141+50.00	356.1						
	POVC	142+00.00	355.9						
	POVC	142+50.00	355.53						
	POVC	143+00.00	354.98						
	POVC	143+50.00	354.27						
	POVC	144+00.00	353.38						
	PVT	144+20.00	352.97						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Linear	PVT	144+20.00	352.97	145	-2.09%				
	POVT	144+50.00	352.35						
	POVT	145+00.00	351.3						
	POVT	145+50.00	350.26						
	PVC	145+65.00	349.94						
Symmetrical Parabola	PVC	145+65.00	349.94	430	-2.09%	1.21%	130.36	1.77	
	POVC	146+00.00	349.26						
	POVC	146+50.00	348.44						
	POVC	147+00.00	347.82						
	POVC	147+50.00	347.39						
	PVI	147+80.00	345.45						
	POVC	148+00.00	347.15						
	VLOW	148+37.40	347.1						
	POVC	148+50.00	347.1						
	POVC	149+00.00	347.25						
	POVC	149+50.00	347.58						
	PVT	149+95.00	348.05						
Linear	PVT	149+95.00	348.05	120	1.21%				
	POVT	150+00.00	348.11						
	POVT	150+50.00	348.71						
	POVT	151+00.00	349.32						
	PVI	151+15.00	349.5						
Linear	PVI	151+15.00	349.5	52.58	0.77%				
	POVT	151+50.00	349.77						
	PVI	151+67.58	349.91						
Linear	PVI	151+67.58	349.91	105.01	1.18%				
	POVT	152+00.00	350.29						
	POVT	152+50.00	350.87						
	PVI	152+72.60	351.14						
Linear	PVI	152+72.60	351.14	52.4	1.74%				
	POVT	153+00.00	351.62						
	PVI	153+25.00	352.05						
Linear	PVI	153+25.00	352.05	35	1.76%				
	POVT	153+50.00	352.49						
	PVC	153+60.00	352.67						
Symmetrical Parabola	PVC	153+60.00	352.67	100	1.76%	1.29%	208.77	-0.06	2302.96
	POVC	154+00.00	353.34						
	PVI	154+10.00	353.55						
	POVC	154+50.00	354.06						
	PVT	154+60.00	354.19						
Linear	PVT	154+60.00	354.19	310	1.29%				
	POVT	155+00.00	354.71						
	POVT	155+50.00	355.35						
	POVT	156+00.00	355.99						
	POVT	156+50.00	356.64						
	POVT	157+00.00	357.28						
	POVT	157+50.00	357.92						
	PVC	157+70.00	358.18						
Symmetrical Parabola	PVC	157+70.00	358.18	50	1.29%	1.12%	300	-0.01	6499.9
	PVI	157+95.00	358.5						
	POVC	158+00.00	358.55						
	PVT	158+20.00	358.78						
Linear	PVT	158+20.00	358.78	20	1.12%				
	PVC	158+40.00	359						
Symmetrical Parabola	PVC	158+40.00	359	330	1.12%	-0.74%	177.44	-0.77	745.25
	POVC	158+50.00	359.11						
	POVC	159+00.00	359.57						
	POVC	159+50.00	359.89						
	POVC	160+00.00	360.07						
	PVI	160+05.00	360.85						
	VHIGH	160+38.56	360.11						
	POVC	160+50.00	360.11						
	POVC	161+00.00	360.01						
	POVC	161+50.00	359.76						
	PVT	161+70.00	359.63						
Linear	PVT	161+70.00	359.63	80	-0.74%				
	POVT	162+00.00	359.41						
	PVC	162+50.00	359.04						
Symmetrical Parabola	PVC	162+50.00	359.04	50	-0.74%	-0.84%	493.27	-0.01	10671.23
	PVI	162+75.00	358.85						
	PVT	163+00.00	358.64						
Linear	PVT	163+00.00	358.64	65	-0.84%				
	POVT	163+50.00	358.22						
	PVC	163+65.00	358.09						
Symmetrical Parabola	PVC	163+65.00	358.09	200	-0.84%	-1.14%	665	-0.08	3688.17
	POVC	164+00.00	357.79						
	POVC	164+50.00	357.32						
	PVI	164+65.00	357.25						
	POVC	165+00.00	356.82						
	POVC	165+50.00	356.28						
	PVT	165+65.00	356.11						

PVC - POINT OF VERTICAL CURVATURE
PVT - POINT OF VERTICAL TANGENCY
PVI - POINT OF VERTICAL INTERSECTION
POVT - POINT ON VERTICAL TANGENT
POVT - POINT ON VERTICAL CURVE

VERTICAL ALIGNMENT TABLE SHEET 1

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_118.i

PLOT DATE: 04/17/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 118RHB OF 217

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Linear	PVT	165+65.00	356.11	25	-1.14%				
	PVC	165+90.00	355.82						
Symmetrical Parabola	PVC	165+90.00	355.82	100	-1.14%	-0.51%	158.56	0.08	
	POVC	166+00.00	355.71						
	PVI	166+40.00	355.25						
	POVC	166+50.00	355.25						
	PVT	166+90.00	354.99						
Linear	PVT	166+90.00	354.99	25	-0.51%				
	POVT	167+00.00	354.94						
	PVC	167+15.00	354.87						
Symmetrical Parabola	PVC	167+15.00	354.87	260	-0.51%	-3.99%	74.81	-1.13	440.49
	POVC	167+50.00	354.6						
	POVC	168+00.00	353.95						
	PVI	168+45.00	354.2						
	POVC	168+50.00	352.96						
	POVC	169+00.00	351.63						
	POVC	169+50.00	349.97						
	PVT	169+75.00	349.02						
Linear	PVT	169+75.00	349.02	105	-3.99%				
	POVT	170+00.00	348.02						
	POVT	170+50.00	346.03						
	PVC	170+80.00	344.83						
Symmetrical Parabola	PVC	170+80.00	344.83	350	-3.99%	0.25%	82.53	1.86	
	POVC	171+00.00	344.06						
	POVC	171+50.00	342.33						
	POVC	172+00.00	340.92						
	POVC	172+50.00	339.8						
	PVI	172+55.00	337.85						
	POVC	173+00.00	338.99						
	POVC	173+50.00	338.48						
	POVC	174+00.00	338.27						
	VLOW	174+09.11	338.27						
	PVT	174+30.00	338.29						
Linear	PVT	174+30.00	338.29	195	0.25%				
	POVT	174+50.00	338.34						
	POVT	175+00.00	338.47						
	POVT	175+50.00	338.6						
	POVT	176+00.00	338.72						
	PVC	176+25.00	338.79						
Symmetrical Parabola	PVC	176+25.00	338.79	50	0.25%	0.57%	160.23	0.02	
	PVI	176+50.00	338.85						
	POVC	176+50.00	338.87						
	PVT	176+75.00	338.99						
Linear	PVT	176+75.00	338.99	65	0.57%				
	POVT	177+00.00	339.13						
	PVC	177+40.00	339.36						
Symmetrical Parabola	PVC	177+40.00	339.36	50	0.57%	0.33%	215.63	-0.01	4678.84
	POVC	177+50.00	339.41						
	PVI	177+65.00	339.5						
	PVT	177+90.00	339.58						
Linear	PVT	177+90.00	339.58	55	0.33%				
	POVT	178+00.00	339.62						
	PVC	178+45.00	339.77						
Symmetrical Parabola	PVC	178+45.00	339.77	50	0.33%	0.52%	267.86	0.01	
	POVC	178+50.00	339.78						
	PVI	178+70.00	339.85						
	PVT	178+95.00	339.98						
Linear	PVT	178+95.00	339.98	75	0.52%				
	POVT	179+00.00	340.01						
	POVT	179+50.00	340.27						
	PVC	179+70.00	340.37						
Symmetrical Parabola	PVC	179+70.00	340.37	50	0.52%	0.13%	126.58	-0.02	2757.03
	PVI	179+95.00	340.5						
	POVC	180+00.00	340.49						
	PVT	180+20.00	340.53						
Linear	PVT	180+20.00	340.53	30	0.13%				
	PVC	180+50.00	340.57						
Symmetrical Parabola	PVC	180+50.00	340.57	50	0.13%	0.60%	105.26	0.03	
	PVI	180+75.00	340.6						
	PVT	181+00.00	340.75						
Linear	PVT	181+00.00	340.75	50	0.60%				
	PVC	181+50.00	341.05						
Symmetrical Parabola	PVC	181+50.00	341.05	50	0.60%	0.30%	166.67	-0.02	3622.17
	PVI	181+75.00	341.2						
	PVT	182+00.00	341.28						
Linear	PVT	182+00.00	341.28	250	0.30%				
	POVT	182+50.00	341.43						
	POVT	183+00.00	341.58						
	POVT	183+50.00	341.73						
	POVT	184+00.00	341.88						
	PVC	184+50.00	342.03						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	184+50.00	342.03	50	0.30%	0.47%	296.3	0.01	
	PVI	184+75.00	342.1						
	PVT	185+00.00	342.22						
Linear	PVT	185+00.00	342.22	110	0.47%				
	POVT	185+50.00	342.45						
	POVT	186+00.00	342.69						
	PVC	186+10.00	342.73						
Symmetrical Parabola	PVC	186+10.00	342.73	50	0.47%	0.39%	647.02	0	13989.68
	PVI	186+35.00	342.85						
	POVC	186+50.00	342.91						
	PVT	186+60.00	342.95						
Linear	PVT	186+60.00	342.95	1055	0.39%				
	POVT	187+00.00	343.1						
	POVT	187+50.00	343.3						
	POVT	188+00.00	343.5						
	POVT	188+50.00	343.69						
	POVT	189+00.00	343.89						
	POVT	189+50.00	344.08						
	POVT	190+00.00	344.28						
	POVT	190+50.00	344.47						
	POVT	191+00.00	344.67						
	POVT	191+50.00	344.87						
	POVT	192+00.00	345.06						
	POVT	192+50.00	345.26						
	POVT	193+00.00	345.45						
	POVT	193+50.00	345.65						
	POVT	194+00.00	345.84						
	POVT	194+50.00	346.04						
	POVT	195+00.00	346.24						
	POVT	195+50.00	346.43						
	POVT	196+00.00	346.63						
	POVT	196+50.00	346.82						
	POVT	197+00.00	347.02						
	PVC	197+15.00	347.08						
Symmetrical Parabola	PVC	197+15.00	347.08	420	0.39%	1.55%	361.37	0.61	
	POVC	197+50.00	347.23						
	POVC	198+00.00	347.51						
	POVC	198+50.00	347.86						
	POVC	199+00.00	348.28						
	PVI	199+25.00	347.9						
	POVC	199+50.00	348.76						
	POVC	200+00.00	349.32						
	POVC	200+50.00	349.94						
	POVC	201+00.00	350.64						
	PVT	201+35.00	351.16						
Linear	PVT	201+35.00	351.16	285	1.55%				
	POVT	201+50.00	351.4						
	POVT	202+00.00	352.17						
	POVT	202+50.00	352.95						
	POVT	203+00.00	353.73						
	POVT	203+50.00	354.5						
	POVT	204+00.00	355.28						
	PVC	204+20.00	355.59						
Symmetrical Parabola	PVC	204+20.00	355.59	220	1.55%	0.10%	150.84	-0.4	849.91
	POVC	204+50.00	356.03						
	POVC	205+00.00	356.62						
	PVI	205+30.00	357.3						
	POVC	205+50.00	357.05						
	POVC	206+00.00	357.31						
	PVT	206+40.00	357.4						
Linear	PVT	206+40.00	357.4	15	0.10%				
	POVT	206+50.00	357.41						
	PVC	206+55.00	357.42						
Symmetrical Parabola	PVC	206+55.00	357.42	380	0.10%	-2.23%	163.66	-1.1	654.77
	VHIGH	206+70.59	357.43						
	POVC	207+00.00	357.4						
	POVC	207+50.00	357.23						
	POVC	208+00.00	356.91						
	PVI	208+45.00	357.6						
	POVC	208+50.00	356.44						
	POVC	209+00.00	355.82						
	POVC	209+50.00	355.04						
	POVC	210+00.00	354.11						
	PVT	210+35.00	353.37						
Linear	PVT	210+35.00	353.37	95	-2.23%				
	POVT	210+50.00	353.04						
	POVT	211+00.00	351.92						
	PVC	211+30.00	351.25						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	211+30.00	351.25	180	-2.23%	-1.61%	290.19	0.14	
	POVC	211+50.00	350.82						
	POVC	212+00.00	349.78						
	PVI	212+20.00	349.25						
	POVC	212+50.00	348.83						
	POVC	213+00.00	347.97						
	PVT	213+10.00	347.8						
Linear	PVT	213+10.00	347.8	130	-1.61%				
	POVT	213+50.00	347.16						
	POVT	214+00.00	346.36						
	PVC	214+40.00	345.72						
Symmetrical Parabola	PVC	214+40.00	345.72	500	-1.61%	0.05%	301.07	1.04	
	POVC	214+50.00	345.56						
	POVC	215+00.00	344.81						
	POVC	215+50.00	344.15						
	POVC	216+00.00	343.57						
	POVC	216+50.00	343.07						
	PVI	216+90.00	341.7						
	POVC	217+00.00	342.66						
	POVC	217+50.00	342.33						
	POVC	218+00.00	342.09						
	POVC	218+50.00	341.92						
	POVC	219+00.00	341.84						
	VLOW	219+23.64	341.83						
	PVT	219+40.00	341.84						
Linear	PVT	219+40.00	341.84	185	0.05%				
	POVT	219+50.00	341.84						
	POVT	220+00.00	341.87						
	POVT	220+50.00	341.9						
	POVT	221+00.00	341.92						
	PVC	221+25.00	341.94						
Symmetrical Parabola	PVC	221+25.00	341.94	50	0.05%	0.44%	130.5	0.02	
	PVI	221+50.00	341.95						
	POVC	221+50.00	341.97						
	PVT	221+75.00	342.06						
Linear	PVT	221+75.00	342.06	30	0.44%				
	POVT	222+00.00	342.17						
	PVC	222+05.00	342.19						
Symmetrical Parabola	PVC	222+05.00	342.19	50	0.44%	0.19%	201.74	-0.02	4379.14
	PVI	222+30.00	342.3						
	POVC	222+50.00	342.34						
	PVT	222+55.00	342.35						
Linear	PVT	222+55.00	342.35	240	0.19%				
	POVT	223+00.00	342.43						
	POVT	223+50.00	342.53						
	POVT	224+00.00	342.62						
	POVT	224+50.00	342.72						
	PVC	224+95.00	342.8						
Symmetrical Parabola	PVC	224+95.00	342.8	50	0.19%	0.38%	269.77	0.01	
	POVC	225+00.00	342.81						
	PVI	225+20.00	342.85						
	PVT	225+45.00	342.94						
Linear	PVT	225+45.00	342.94	30	0.38%				
	POVT	225+50.00	342.96						
	PVC	225+75.00	343.06						
Symmetrical Parabola	PVC	225+75.00	343.06	50	0.38%	0.19%	264.15	-0.01	5726.17
	PVI	226+00.00	343.15						
	POVC	226+00.00	343.14						
	PVT	226+25.00	343.2						
Linear	PVT	226+25.00	343.2	300	0.19%				
	POVT	226+50.00	343.24						
	POVT	227+00.00	343.34						
	POVT	227+50.00	343.43						
	POVT	228+00.00	343.52						
	POVT	228+50.00	343.61						
	POVT	229+00.00	343.71						
	PVC	229+25.00	343.75						
Symmetrical Parabola	PVC	229+25.00	343.75	50	0.19%	0.20%	2603.7	0	
	PVI	229+50.00	343.8						
	POVC	229+50.00	343.8						
	PVT	229+75.00	343.85						
Linear	PVT	229+75.00	343.85	560	0.20%				
	POVT	230+00.00	343.9						
	POVT	230+50.00	344						
	POVT	231+00.00	344.11						
	POVT	231+50.00	344.21						
	POVT	232+00.00	344.31						
	POVT	232+50.00	344.41						
	POVT	233+00.00	344.52						
	POVT	233+50.00	344.62						
	POVT	234+00.00	344.72						
	POVT	234+50.00	344.82						
	POVT	235+00.00	344.93						
	PVC	235+35.00	345						

PVC - POINT OF VERTICAL CURVATURE
PVT - POINT OF VERTICAL TANGENCY
PVI - POINT OF VERTICAL INTERSECTION
POVT - POINT ON VERTICAL TANGENT
POVT - POINT ON VERTICAL CURVE

VERTICAL ALIGNMENT TABLE SHEET 2

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_119.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 119 OF 217

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	235+35.00	345	50	0.20%	0.24%	1492.9	0	
	POVC	235+50.00	345.03						
	PVI	235+60.00	345.05						
	PVT	235+85.00	345.11						
Linear	PVT	235+85.00	345.11	495	0.24%				
	POVT	236+00.00	345.15						
	POVT	236+50.00	345.26						
	POVT	237+00.00	345.38						
	POVT	237+50.00	345.5						
	POVT	238+00.00	345.62						
	POVT	238+50.00	345.74						
	POVT	239+00.00	345.86						
	POVT	239+50.00	345.98						
	POVT	240+00.00	346.1						
	POVT	240+50.00	346.22						
	PVC	240+80.00	346.29						
Symmetrical Parabola	PVC	240+80.00	346.29	470	0.24%	2.52%	206.19	1.34	
	POVC	241+00.00	346.35						
	POVC	241+50.00	346.58						
	POVC	242+00.00	346.93						
	POVC	242+50.00	347.4						
	POVC	243+00.00	347.99						
	PVI	243+15.00	346.85						
	POVC	243+50.00	348.7						
	POVC	244+00.00	349.54						
	POVC	244+50.00	350.49						
	POVC	245+00.00	351.57						
	PVT	245+50.00	352.77						
Linear	PVT	245+50.00	352.77	150	2.52%				
	POVT	246+00.00	354.03						
	POVT	246+50.00	355.28						
	PVC	247+00.00	356.54						
Symmetrical Parabola	PVC	247+00.00	356.54	350	2.52%	1.44%	325.28	-0.47	1177.93
	POVC	247+50.00	357.76						
	POVC	248+00.00	358.91						
	POVC	248+50.00	359.97						
	PVI	248+75.00	360.95						
	POVC	249+00.00	360.96						
	POVC	249+50.00	361.88						
	POVC	250+00.00	362.71						
	PVT	250+50.00	363.47						
Linear	PVT	250+50.00	363.47	1270	1.44%				
	POVT	251+00.00	364.19						
	POVT	251+50.00	364.92						
	POVT	252+00.00	365.64						
	POVT	252+50.00	366.36						
	POVT	253+00.00	367.08						
	POVT	253+50.00	367.8						
	POVT	254+00.00	368.52						
	POVT	254+50.00	369.24						
	POVT	255+00.00	369.96						
	POVT	255+50.00	370.68						
	POVT	256+00.00	371.4						
	POVT	256+50.00	372.12						
	POVT	257+00.00	372.85						
	POVT	257+50.00	373.57						
	POVT	258+00.00	374.29						
	POVT	258+50.00	375.01						
	POVT	259+00.00	375.73						
	POVT	259+50.00	376.45						
	POVT	260+00.00	377.17						
	POVT	260+50.00	377.89						
	POVT	261+00.00	378.61						
	POVT	261+50.00	379.33						
	POVT	262+00.00	380.05						
	POVT	262+50.00	380.78						
	POVT	263+00.00	381.5						
	PVC	263+20.00	381.78						
Symmetrical Parabola	PVC	263+20.00	381.78	550	1.44%	0.57%	628.89	-0.6	1508.95
	POVC	263+50.00	382.21						
	POVC	264+00.00	382.89						
	POVC	264+50.00	383.52						
	POVC	265+00.00	384.12						
	POVC	265+50.00	384.68						
	PVI	265+95.00	385.75						
	POVC	266+00.00	385.2						
	POVC	266+50.00	385.68						
	POVC	267+00.00	386.12						
	POVC	267+50.00	386.51						
	POVC	268+00.00	386.87						
	POVC	268+50.00	387.19						
	PVT	268+70.00	387.31						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Linear	PVT	268+70.00	387.31	220	0.57%				
	POVT	269+00.00	387.48						
	POVT	269+50.00	387.76						
	POVT	270+00.00	388.05						
	POVT	270+50.00	388.33						
	PVC	270+90.00	388.56						
Symmetrical Parabola	PVC	270+90.00	388.56	50	0.57%	0.47%	491.84	-0.01	10640.41
	POVC	271+00.00	388.61						
	PVI	271+15.00	388.7						
	PVT	271+40.00	388.82						
Linear	PVT	271+40.00	388.82	605	0.47%				
	POVT	271+50.00	388.86						
	POVT	272+00.00	389.1						
	POVT	272+50.00	389.33						
	POVT	273+00.00	389.56						
	POVT	273+50.00	389.79						
	POVT	274+00.00	390.03						
	POVT	274+50.00	390.26						
	POVT	275+00.00	390.49						
	POVT	275+50.00	390.73						
	POVT	276+00.00	390.96						
	POVT	276+50.00	391.19						
	POVT	277+00.00	391.42						
	PVC	277+45.00	391.63						
Symmetrical Parabola	PVC	277+45.00	391.63	50	0.47%	0.55%	626.52	0	
	POVC	277+50.00	391.66						
	PVI	277+70.00	391.75						
	PVT	277+95.00	391.89						
Linear	PVT	277+95.00	391.89	280	0.55%				
	POVT	278+00.00	391.91						
	POVT	278+50.00	392.19						
	POVT	279+00.00	392.46						
	POVT	279+50.00	392.73						
	POVT	280+00.00	393						
	POVT	280+50.00	393.28						
	PVC	280+75.00	393.41						
Symmetrical Parabola	PVC	280+75.00	393.41	50	0.55%	0.40%	343.75	-0.01	7444.16
	PVI	281+00.00	393.55						
	POVC	281+00.00	393.54						
	PVRC	281+25.00	393.65						
Symmetrical Parabola	PVRC	281+25.00	393.65	50	0.40%	0.58%	277.78	0.01	
	PVI	281+50.00	393.75						
	POVC	281+50.00	393.76						
	PVT	281+75.00	393.9						
Linear	PVT	281+75.00	393.9	200	0.58%				
	POVT	282+00.00	394.04						
	POVT	282+50.00	394.33						
	POVT	283+00.00	394.62						
	POVT	283+50.00	394.91						
	PVC	283+75.00	395.06						
Symmetrical Parabola	PVC	283+75.00	395.06	50	0.58%	0.89%	163.55	0.02	
	PVI	284+00.00	395.2						
	POVC	284+00.00	395.22						
	PVT	284+25.00	395.42						
Linear	PVT	284+25.00	395.42	125	0.89%				
	POVT	284+50.00	395.64						
	POVT	285+00.00	396.09						
	PVC	285+50.00	396.53						
Symmetrical Parabola	PVC	285+50.00	396.53	50	0.89%	1.07%	276.32	0.01	
	PVI	285+75.00	396.75						
	PVT	286+00.00	397.02						
Linear	PVT	286+00.00	397.02	25	1.07%				
	PVC	286+25.00	397.28						
Symmetrical Parabola	PVC	286+25.00	397.28	50	1.07%	0.97%	500	-0.01	10816.5
	PVI	286+50.00	397.55						
	POVC	286+50.00	397.54						
	PVT	286+75.00	397.79						
Linear	PVT	286+75.00	397.79	50	0.97%				
	POVT	287+00.00	398.03						
	PVC	287+25.00	398.28						
Symmetrical Parabola	PVC	287+25.00	398.28	150	0.97%	0.53%	342.08	-0.08	2536.02
	POVC	287+50.00	398.51						
	PVI	288+00.00	399						
	POVC	288+00.00	398.92						
	POVC	288+50.00	399.25						
	PVT	288+75.00	399.4						
Linear	PVT	288+75.00	399.4	495	0.53%				
	POVT	289+00.00	399.53						
	POVT	289+50.00	399.79						
	POVT	290+00.00	400.06						
	POVT	290+50.00	400.32						
	POVT	291+00.00	400.58						
	POVT	291+50.00	400.85						
	POVT	292+00.00	401.11						
	POVT	292+50.00	401.38						
	POVT	293+00.00	401.64						
	POVT	293+50.00	401.9						
	PVC	293+70.00	402.01						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	293+70.00	402.01	280	0.53%	-0.39%	303.71	-0.32	1310.52
	POVC	294+00.00	402.15						
	POVC	294+50.00	402.33						
	POVC	295+00.00	402.42						
	PVI	295+10.00	402.75						
	VHIGH	295+30.41	402.43						
	POVC	295+50.00	402.43						
	POVC	296+00.00	402.35						
	PVT	296+50.00	402.2						
Linear	PVT	296+50.00	402.2	206	-0.39%				
	POVT	297+00.00	402						
	POVT	297+50.00	401.8						
	POVT	298+00.00	401.61						
	POVT	298+50.00	401.41						
	PVC	298+56.00	401.39						
Symmetrical Parabola	PVC	298+56.00	401.39	400	-0.39%	3.11%	114.09	1.75	
	POVC	299+00.00	401.3						
	VLOW	299+00.92	401.3						
	POVC	299+50.00	401.4						
	EQNBK	299+71.00							
	EQNAH	A 0+00.00							
	POVC	A 0+00.00	401.51						
	POVC	A 0+50.00	401.93						
	PVI	A 0+85.00	400.6						
	POVC	A 1+00.00	402.57						
	POVC	A 1+50.00	403.42						
	POVC	A 2+00.00	404.5						
	POVC	A 2+50.00	405.79						
	PVT	A 2+85.00	406.82						
Linear	PVT	A 2+85.00	406.82	950	3.11%				
	POVT	A 3+00.00	407.29						
	POVT	A 3+50.00	408.85						
	POVT	A 4+00.00	410.4						
	POVT	A 4+50.00	411.96						
	POVT	A 5+00.00	413.52						
	POVT	A 5+50.00	415.07						
	POVT	A 6+00.00	416.63						
	POVT	A 6+50.00	418.18						
	POVT	A 7+00.00	419.74						
	POVT	A 7+50.00	421.3						
	POVT	A 8+00.00	422.85						
	POVT	A 8+50.00	424.41						
	POVT	A 9+00.00	425.97						
	POVT	A 9+50.00	427.52						
	POVT	A 10+00.00	429.08						
	POVT	A 10+50.00	430.63						
	POVT	A 11+00.00	432.19						
	POVT	A 11+50.00	433.75						
	POVT	A 12+00.00	435.3						
	PVC	A 12+35.00	436.39						
Symmetrical Parabola	PVC	A 12+35.00	436.39	550	3.11%	3.58%	1171.1	0.32	
	POVC	A 12+50.00	436.86						
	POVC	A 13+00.00	438.43						
	POVC	A 13+50.00	440.03						
	POVC	A 14+00.00	441.64						
	POVC	A 14+50.00	443.28						
	POVC	A 15+00.00	444.94						
	PVI	A 15+10.00	444.95						
	POVC	A 15+50.00	446.62						
	POVC	A 16+00.00	448.32						
	POVC	A 16+50.00	450.04						
	POVC	A 17+00.00	451.79						
	POVC	A 17+50.00	453.55						
	PVT	A 17+85.00	454.8						
Linear	PVT	A 17+85.00	454.8	460	3.58%				
	POVT	A 18+00.00	455.34						
	POVT	A 18+50.00	457.13						
	POVT	A 19+00.00	458.92						
	POVT	A 19+50.00	460.71						
	POVT	A 20+00.00	462.5						
	POVT	A 20+50.00	464.29						
	POVT	A 21+00.00	466.08						
	POVT	A 21+50.00	467.87						
	POVT	A 22+00.00	469.67						
	PVC	A 22+45.00	471.28						

PVC - POINT OF VERTICAL CURVATURE
PVT - POINT OF VERTICAL TANGENCY
PVI - POINT OF VERTICAL INTERSECTION
POVT - POINT ON VERTICAL TANGENT
POVT - POINT ON VERTICAL CURVE

VERTICAL ALIGNMENT TABLE SHEET 3

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_120.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG
CHECKED BY: CDL
SHEET 120 OF 217

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	A 22+45.00	471.28	300	3.58%	2.95%	477.51	-0.24	1867.7
	POVC	A 22+50.00	471.46						
	POVC	A 23+00.00	473.22						
	POVC	A 23+50.00	474.92						
	PVI	A 23+95.00	476.65						
	POVC	A 24+00.00	476.58						
	POVC	A 24+50.00	478.18						
	POVC	A 25+00.00	479.73						
	PVT	A 25+45.00	481.08						
Linear	PVT	A 25+45.00	481.08	795	2.95%				
	POVT	A 25+50.00	481.23						
	POVT	A 26+00.00	482.71						
	POVT	A 26+50.00	484.18						
	POVT	A 27+00.00	485.66						
	POVT	A 27+50.00	487.14						
	POVT	A 28+00.00	488.61						
	POVT	A 28+50.00	490.09						
	POVT	A 29+00.00	491.57						
	POVT	A 29+50.00	493.04						
	POVT	A 30+00.00	494.52						
	POVT	A 30+50.00	496						
	POVT	A 31+00.00	497.47						
	POVT	A 31+50.00	498.95						
	POVT	A 32+00.00	500.43						
	POVT	A 32+50.00	501.9						
	POVT	A 33+00.00	503.38						
	PVC	A 33+40.00	504.56						
Symmetrical Parabola	PVC	A 33+40.00	504.56	700	2.95%	0.33%	267.14	-2.29	761.84
	POVC	A 33+50.00	504.86						
	POVC	A 34+00.00	506.27						
	POVC	A 34+50.00	507.58						
	POVC	A 35+00.00	508.81						
	POVC	A 35+50.00	509.94						
	POVC	A 36+00.00	510.98						
	POVC	A 36+50.00	511.92						
	PVI	A 36+90.00	514.9						
	POVC	A 37+00.00	512.77						
	POVC	A 37+50.00	513.53						
	POVC	A 38+00.00	514.19						
	POVC	A 38+50.00	514.76						
	POVC	A 39+00.00	515.23						
	POVC	A 39+50.00	515.62						
	POVC	A 40+00.00	515.9						
	PVT	A 40+40.00	516.07						
Linear	PVT	A 40+40.00	516.07	65	0.33%				
	POVT	A 40+50.00	516.1						
	POVT	A 41+00.00	516.27						
	PVC	A 41+05.00	516.28						
Symmetrical Parabola	PVC	A 41+05.00	516.28	220	0.33%	-0.59%	238.33	-0.25	1279.08
	POVC	A 41+50.00	516.39						
	VHIGH	A 41+84.44	516.42						
	POVC	A 42+00.00	516.41						
	PVI	A 42+15.00	516.65						
	POVC	A 42+50.00	516.33						
	POVC	A 43+00.00	516.14						
	PVT	A 43+25.00	516						
Linear	PVT	A 43+25.00	516	265	-0.59%				
	POVT	A 43+50.00	515.85						
	POVT	A 44+00.00	515.56						
	POVT	A 44+50.00	515.26						
	POVT	A 45+00.00	514.97						
	POVT	A 45+50.00	514.67						
	PVC	A 45+90.00	514.44						
Symmetrical Parabola	PVC	A 45+90.00	514.44	420	-0.59%	-5.06%	93.88	-2.35	451.21
	POVC	A 46+00.00	514.37						
	POVC	A 46+50.00	513.89						
	POVC	A 47+00.00	513.15						
	POVC	A 47+50.00	512.13						
	PVI	A 48+00.00	513.2						
	POVC	A 48+00.00	510.85						
	POVC	A 48+50.00	509.3						
	POVC	A 49+00.00	507.49						
	POVC	A 49+50.00	505.41						
	POVC	A 50+00.00	503.07						
	PVT	A 50+10.00	502.57						
Linear	PVT	A 50+10.00	502.57	315	-5.06%				
	POVT	A 50+50.00	500.54						
	POVT	A 51+00.00	498.01						
	POVT	A 51+50.00	495.48						
	POVT	A 52+00.00	492.95						
	POVT	A 52+50.00	490.41						
	POVT	A 53+00.00	487.88						
	PVC	A 53+25.00	486.62						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	A 53+25.00	486.62	50	-5.06%	-5.04%	2246.5	0	
	PVI	A 53+50.00	485.35						
	POVC	A 53+50.00	485.35						
	PVT	A 53+75.00	484.09						
Linear	PVT	A 53+75.00	484.09	675	-5.04%				
	POVT	A 54+00.00	482.83						
	POVT	A 54+50.00	480.31						
	POVT	A 55+00.00	477.79						
	POVT	A 55+50.00	475.27						
	POVT	A 56+00.00	472.75						
	POVT	A 56+50.00	470.23						
	POVT	A 57+00.00	467.71						
	POVT	A 57+50.00	465.18						
	POVT	A 58+00.00	462.66						
	POVT	A 58+50.00	460.14						
	POVT	A 59+00.00	457.62						
	POVT	A 59+50.00	455.1						
	POVT	A 60+00.00	452.58						
	PVC	A 60+50.00	450.06						
Symmetrical Parabola	PVC	A 60+50.00	450.06	50	-5.04%	-5.12%	616.75	-0.01	13336.39
	PVI	A 60+75.00	448.8						
	PVT	A 61+00.00	447.52						
Linear	PVT	A 61+00.00	447.52	195	-5.12%				
	POVT	A 61+50.00	444.96						
	POVT	A 62+00.00	442.4						
	POVT	A 62+50.00	439.84						
	PVC	A 62+95.00	437.53						
Symmetrical Parabola	PVC	A 62+95.00	437.53	50	-5.12%	-4.77%	141.18	0.02	
	POVC	A 63+00.00	437.28						
	PVI	A 63+20.00	436.25						
	PVT	A 63+45.00	435.06						
Linear	PVT	A 63+45.00	435.06	120	-4.77%				
	POVT	A 63+50.00	434.82						
	POVT	A 64+00.00	432.44						
	POVT	A 64+50.00	430.05						
	PVC	A 64+65.00	429.34						
Symmetrical Parabola	PVC	A 64+65.00	429.34	530	-4.77%	1.54%	83.96	4.18	
	POVC	A 65+00.00	427.74						
	POVC	A 65+50.00	425.71						
	POVC	A 66+00.00	423.98						
	POVC	A 66+50.00	422.55						
	POVC	A 67+00.00	421.42						
	PVI	A 67+30.00	416.7						
	POVC	A 67+50.00	420.58						
	POVC	A 68+00.00	420.05						
	POVC	A 68+50.00	419.81						
	VLOW	A 68+65.35	419.79						
	POVC	A 69+00.00	419.86						
	POVC	A 69+50.00	420.22						
	PVT	A 69+95.00	420.79						
Linear	PVT	A 69+95.00	420.79	235	1.54%				
	POVT	A 70+00.00	420.87						
	POVT	A 70+50.00	421.64						
	POVT	A 71+00.00	422.41						
	POVT	A 71+50.00	423.19						
	POVT	A 72+00.00	423.96						
	PVC	A 72+30.00	424.42						
Symmetrical Parabola	PVC	A 72+30.00	424.42	360	1.54%	-4.28%	61.87	-2.62	365.45
	POVC	A 72+50.00	424.7						
	POVC	A 73+00.00	425.11						
	VHIGH	A 73+25.53	425.16						
	POVC	A 73+50.00	425.11						
	POVC	A 74+00.00	424.71						
	PVI	A 74+10.00	427.2						
	POVC	A 74+50.00	423.91						
	POVC	A 75+00.00	422.7						
	POVC	A 75+50.00	421.09						
	PVT	A 75+90.00	419.51						
Linear	PVT	A 75+90.00	419.51	55	-4.28%				
	POVT	A 76+00.00	419.08						
	PVC	A 76+45.00	417.15						
Symmetrical Parabola	PVC	A 76+45.00	417.15	330	-4.28%	0.13%	75	1.82	
	POVC	A 76+50.00	416.94						
	POVC	A 77+00.00	415						
	POVC	A 77+50.00	413.4						
	POVC	A 78+00.00	412.13						
	PVI	A 78+10.00	410.1						
	POVC	A 78+50.00	411.19						
	POVC	A 79+00.00	410.59						
	POVC	A 79+50.00	410.32						
	VLOW	A 79+65.63	410.3						
	PVT	A 79+75.00	410.31						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Linear	PVT	A 79+75.00	410.31	250	0.13%				
	POVT	A 80+00.00	410.34						
	POVT	A 80+50.00	410.4						
	POVT	A 81+00.00	410.46						
	POVT	A 81+50.00	410.53						
	POVT	A 82+00.00	410.59						
	PVC	A 82+25.00	410.62						
Symmetrical Parabola	PVC	A 82+25.00	410.62	50	0.13%	-0.25%	133.33	-0.02	2902.73
	VHIGH	A 82+41.67	410.63						
	PVI	A 82+50.00	410.65						
	POVC	A 82+50.00	410.63						
	PVT	A 82+75.00	410.59						
Linear	PVT	A 82+75.00	410.59	50	-0.25%				
	POVT	A 83+00.00	410.53						
	PVC	A 83+25.00	410.46						
Symmetrical Parabola	PVC	A 83+25.00	410.46	50	-0.25%	0.11%	137.25	0.02	
	PVI	A 83+50.00	410.4						
	POVC	A 83+50.00	410.42						
	VLOW	A 83+59.31	410.42						
	PVT	A 83+75.00	410.43						
Linear	PVT	A 83+75.00	410.43	460	0.11%				
	POVT	A 84+00.00	410.46						
	POVT	A 84+50.00	410.51						
	POVT	A 85+00.00	410.57						
	POVT	A 85+50.00	410.63						
	POVT	A 86+00.00	410.69						
	POVT	A 86+50.00	410.74						
	POVT	A 87+00.00	410.8						
	POVT	A 87+50.00	410.86						
	POVT	A 88+00.00	410.91						
	PVC	A 88+35.00	410.95						
Symmetrical Parabola	PVC	A 88+35.00	410.95	80	0.11%	1.07%	84	0.1	
	POVC	A 88+50.00	410.98						
	PVI	A 88+75.00	411						
	POVC	A 89+00.00	411.28						
	PVRC	A 89+15.00	411.43						
Symmetrical Parabola	PVRC	A 89+15.00	411.43	70	1.07%	0.09%	71.45	-0.09	1136.5
	PVI	A 89+50.00	411.8						
	POVC	A 89+50.00	411.71						
	PVT	A 89+85.00	411.83						
Linear	PVT	A 89+85.00	411.83	55	0.09%				
	POVT	A 90+00.00	411.84						
	PVC	A 90+40.00	411.88						
Symmetrical Parabola	PVC	A 90+40.00	411.88	50	0.09%	0.21%	401.34	0.01	
	POVC	A 90+50.00	411.89						
	PVI	A 90+65.00	411.9						
	PVT	A 90+90.00	411.95						
Linear	PVT	A 90+90.00	411.95	210	0.21%				
	POVT	A 91+00.00	411.97						
	POVT	A 91+50.00	412.08						
	POVT	A 92+00.00	412.19						
	POVT	A 92+50.00	412.29						
	PVC	A 93+00.00	412.4						
Symmetrical Parabola	PVC	A 93+00.00	412.4	50	0.21%	0.23%	2294.1	0	
	PVI	A 93+25.00	412.45						
	PVT	A 93+50.00	412.51						
Linear	PVT	A 93+50.00	412.51	100	0.23%				
	POVT	A 94+00.00	412.63						
	PVC	A 94+50.00	412.74						
Symmetrical Parabola	PVC	A 94+50.00	412.74	50	0.23%	0.25%	2999.1	0	
	PVI	A 94+75.00	412.8						
	PVT	A 95+00.00	412.86						
Linear	PVT	A 95+00.00	412.86	150	0.25%				
	POVT	A 95+50.00	412.99						
	POVT	A 96+00.00	413.11						
	PVC	A 96+50.00	413.24						
Symmetrical Parabola	PVC	A 96+50.00	413.24	50	0.25%	0.34%	538.55	0.01	
	POVC	A 96+50.00	413.24						
	PVI	A 96+75.00	413.3						
	PVT	A 97+00.00	413.39						
Linear	PVT	A 97+00.00	413.39	125	0.34%				
	POVT	A 97+00.00	413.39						
	POVT	A 97+50.00	413.56						
	POVT	A 98+00.00	413.73						
	PVC	A 98+25.00	413.81						

PVC - POINT OF VERTICAL CURVATURE
PVT - POINT OF VERTICAL TANGENCY
PVI - POINT OF VERTICAL INTERSECTION
POVT - POINT ON VERTICAL TANGENT
POVC - POINT ON VERTICAL CURVE

VERTICAL ALIGNMENT TABLE SHEET 4

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: SJL
PLOT FILE: p07C172_121.i

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 121 OF 217

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	A 98+25.00	413.81	50	0.34%	0.20%	350.02	-0.01	7579.58
	PVI	A 98+50.00	413.9						
	POVC	A 98+50.00	413.89						
	PVT	A 98+75.00	413.95						
Linear	PVT	A 98+75.00	413.95	200	0.20%				
	POVT	A 99+00.00	414						
	POVT	A 99+50.00	414.1						
	POVT	A 100+00.00	414.2						
	POVT	A 100+50.00	414.3						
	PVC	A 100+75.00	414.35						
Symmetrical Parabola	PVC	A 100+75.00	414.35	50	0.20%	0.24%	1250	0	
	PVI	A 101+00.00	414.4						
	POVC	A 101+00.00	414.4						
	PVT	A 101+25.00	414.46						
Linear	PVT	A 101+25.00	414.46	200	0.24%				
	POVT	A 101+50.00	414.52						
	POVT	A 102+00.00	414.64						
	POVT	A 102+50.00	414.76						
	POVT	A 103+00.00	414.88						
	PVC	A 103+25.00	414.94						
Symmetrical Parabola	PVC	A 103+25.00	414.94	50	0.24%	0.08%	312.5	-0.01	6769.69
	PVI	A 103+50.00	415						
	POVC	A 103+50.00	414.99						
	PVT	A 103+75.00	415.02						
Linear	PVT	A 103+75.00	415.02	75	0.08%				
	POVT	A 104+00.00	415.04						
	PVC	A 104+50.00	415.08						
Symmetrical Parabola	PVC	A 104+50.00	415.08	50	0.08%	0.35%	185.19	0.02	
	PVI	A 104+75.00	415.1						
	PVT	A 105+00.00	415.19						
Linear	PVT	A 105+00.00	415.19	150	0.35%				
	POVT	A 105+50.00	415.36						
	POVT	A 106+00.00	415.54						
	PVC	A 106+50.00	415.71						
Symmetrical Parabola	PVC	A 106+50.00	415.71	50	0.35%	0.13%	230.77	-0.01	5005.69
	PVI	A 106+75.00	415.8						
	PVRC	A 107+00.00	415.83						
Symmetrical Parabola	PVRC	A 107+00.00	415.83	100	0.13%	0.44%	326.09	0.04	
	PVI	A 107+50.00	415.9						
	POVC	A 107+50.00	415.94						
	PVT	A 108+00.00	416.12						
Linear	PVT	A 108+00.00	416.12	50	0.44%				
	PVC	A 108+50.00	416.34						
Symmetrical Parabola	PVC	A 108+50.00	416.34	50	0.44%	0.20%	208.33	-0.02	4521.46
	PVI	A 108+75.00	416.45						
	PVRC	A 109+00.00	416.5						
Symmetrical Parabola	PVRC	A 109+00.00	416.5	50	0.20%	0.37%	299.24	0.01	
	PVI	A 109+25.00	416.55						
	PVT	A 109+50.00	416.64						
Linear	PVT	A 109+50.00	416.64	135	0.37%				
	POVT	A 110+00.00	416.83						
	POVT	A 110+50.00	417.01						
	PVC	A 110+85.00	417.14						
Symmetrical Parabola	PVC	A 110+85.00	417.14	470	0.37%	6.89%	72.1	3.83	
	POVC	A 111+00.00	417.21						
	POVC	A 111+50.00	417.67						
	POVC	A 112+00.00	418.48						
	POVC	A 112+50.00	419.63						
	POVC	A 113+00.00	421.13						
	PVI	A 113+20.00	418						
	POVC	A 113+50.00	422.98						
	POVC	A 114+00.00	425.18						
	POVC	A 114+50.00	427.72						
	POVC	A 115+00.00	430.6						
	POVC	A 115+50.00	433.84						
	PVT	A 115+55.00	434.18						
Linear	PVT	A 115+55.00	434.18	70	6.89%				
	POVT	A 116+00.00	437.28						
	PVC	A 116+25.00	439						
Symmetrical Parabola	PVC	A 116+25.00	439	180	6.89%	3.10%	47.54	-0.85	375.03
	POVC	A 116+50.00	440.66						
	POVC	A 117+00.00	443.58						
	PVI	A 117+15.00	445.2						
	POVC	A 117+50.00	445.97						
	POVC	A 118+00.00	447.83						
	PVT	A 118+05.00	447.99						
Linear	PVT	A 118+05.00	447.99	95	3.10%				
	POVT	A 118+50.00	449.39						
	PVC	A 119+00.00	450.94						
Symmetrical Parabola	PVC	A 119+00.00	450.94	130	3.10%	-0.32%	38.04	-0.56	380.81
	POVC	A 119+50.00	452.16						
	PVI	A 119+65.00	452.95						
	POVC	A 120+00.00	452.72						
	VHIGH	A 120+17.94	452.76						
	PVT	A 120+30.00	452.74						
Linear	PVT	A 120+30.00	452.74	40	-0.32%				
	POVT	A 120+50.00	452.68						
	PVC	A 120+70.00	452.62						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
	PVC	A 120+70.00	452.62						
	POVC	A 121+00.00	452.45						
	POVC	A 121+50.00	451.86						
Symmetrical Parabola	PVI	A 121+70.00	452.3	200	-0.32%	-3.48%	63.28	-0.79	441.43
	POVC	A 122+00.00	450.87						
	POVC	A 122+50.00	449.49						
	PVT	A 122+70.00	448.82						
	PVT	A 122+70.00	448.82						
Linear	POVT	A 123+00.00	447.78	140	-3.48%				
	POVT	A 123+50.00	446.04						
	POVT	A 124+00.00	444.3						
	PVC	A 124+10.00	443.95						
	PVC	A 124+10.00	443.95						
	POVC	A 124+50.00	442.62						
	POVC	A 125+00.00	441.14						
	POVC	A 125+50.00	439.84						
	POVC	A 126+00.00	438.75						
Symmetrical Parabola	PVI	A 126+20.00	436.65	420	-3.48%	-0.22%	128.87	1.71	
	POVC	A 126+50.00	437.84						
	POVC	A 127+00.00	437.13						
	POVC	A 127+50.00	436.61						
	POVC	A 128+00.00	436.29						
	PVT	A 128+30.00	436.19						
	PVT	A 128+30.00	436.19						
	POVT	A 128+50.00	436.15						
Linear	POVT	A 129+00.00	436.04	210	-0.22%				
	POVT	A 129+50.00	435.93						
	POVT	A 130+00.00	435.82						
	PVC	A 130+40.00	435.73						
	PVC	A 130+40.00	435.73						
	POVC	A 130+50.00	435.71						
Symmetrical Parabola	PVI	A 131+00.00	435.6	120	-0.22%	-0.50%	426.67	-0.04	3896.98
	POVC	A 131+00.00	435.56						
	POVC	A 131+50.00	435.35						
	PVT	A 131+60.00	435.3						
	PVT	A 131+60.00	435.3						
Linear	POVT	A 132+00.00	435.1	50	-0.50%				
	PVI	A 132+10.00	435.05						
	PVI	A 132+10.00	435.05						
Linear	POVT	A 132+50.00	434.73	52.14	-0.81%				
	PVI	A 132+62.14	434.63						
	PVI	A 132+62.14	434.63						
	POVT	A 133+00.00	434.38						
	POVT	A 133+50.00	434.05						
Linear	POVT	A 134+00.00	433.73	243.16	-0.66%				
	POVT	A 134+50.00	433.4						
	POVT	A 135+00.00	433.07						
	PVI	A 135+05.30	433.04						
	PVI	A 135+05.30	433.04						
Linear	POVT	A 135+50.00	432.6	54.7	-0.98%				
	PVI	A 135+60.00	432.5						
	PVI	A 135+60.00	432.5						
Linear	POVT	A 136+00.00	431.9	45	-1.50%				
	PVC	A 136+05.00	431.83						
	PVC	A 136+05.00	431.83						
Symmetrical Parabola	PVI	A 136+30.00	431.45	50	-1.50%	-2.12%	80.72	-0.04	1767.24
	POVC	A 136+50.00	431.02						
	PVT	A 136+55.00	430.92						
	PVT	A 136+55.00	430.92						
	POVT	A 137+00.00	429.97						
	POVT	A 137+50.00	428.91						
	POVT	A 138+00.00	427.85						
Linear	POVT	A 138+50.00	426.79	370	-2.12%				
	POVT	A 139+00.00	425.73						
	POVT	A 139+50.00	424.67						
	POVT	A 140+00.00	423.61						
	PVC	A 140+25.00	423.08						
	PVC	A 140+25.00	423.08						
	POVC	A 140+50.00	422.59						
	POVC	A 141+00.00	421.85						
	POVC	A 141+50.00	421.44						
	VLOW	A 141+89.41	421.34						
	POVC	A 142+00.00	421.34						
	POVC	A 142+50.00	421.57						
Symmetrical Parabola	PVI	A 143+00.00	417.25	550	-2.12%	4.97%	77.57	4.87	
	POVC	A 143+00.00	422.12						
	POVC	A 143+50.00	423						
	POVC	A 144+00.00	424.19						
	POVC	A 144+50.00	425.71						
	POVC	A 145+00.00	427.55						
	POVC	A 145+50.00	429.72						
	PVT	A 145+75.00	430.92						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Linear	PVT	A 145+75.00	430.92	60	4.97%				
	POVT	A 146+00.00	432.16						
	PVC	A 146+35.00	433.9						
Symmetrical Parabola	PVC	A 146+35.00	433.9	350	4.97%	-0.14%	68.54	-2.23	386.33
	POVC	A 146+50.00	434.63						
	POVC	A 147+00.00	436.82						
	POVC	A 147+50.00	438.65						
	POVC	A 148+00.00	440.12						
	PVI	A 148+10.00	442.6						
	POVC	A 148+50.00	441.22						
	POVC	A 149+00.00	441.95						
	POVC	A 149+50.00	442.32						
	VHIGH	A 149+75.68	442.37						
	PVT	A 149+85.00	442.36						
Linear	PVT	A 149+85.00	442.36	315	-0.14%				
	POVT	A 150+00.00	442.34						
	POVT	A 150+50.00	442.27						
	POVT	A 151+00.00	442.21						
	POVT	A 151+50.00	442.14						
	POVT	A 152+00.00	442.07						
	POVT	A 152+50.00	442						
	PVC	A 153+00.00	441.93						
	PVC	A 153+00.00	441.93						
Symmetrical Parabola	PVI	A 153+25.00	441.9	50	-0.14%	0.03%	303.96	0.01	
	VLOW	A 153+41.32	441.91						
	PVT	A 153+50.00	441.91						
	PVT	A 153+50.00	441.91						
Linear	POVT	A 154+00.00	441.92	125	0.03%				
	POVT	A 154+50.00	441.94						
	PVC	A 154+75.00	441.94						
	PVC	A 154+75.00	441.94						
	VHIGH	A 154+80.56	441.94						
Symmetrical Parabola	PVI	A 155+00.00	441.95	50	0.03%	-0.23%	194.44	-0.02	4221.7
	POVC	A 155+00.00	441.93						
	PVT	A 155+25.00	441.89						
	PVT	A 155+25.00	441.89						
Linear	POVT	A 155+50.00	441.84	125	-0.23%				
	POVT	A 156+00.00	441.72						
	PVC	A 156+50.00	441.61						
	PVC	A 156+50.00	441.61						
Symmetrical Parabola	PVI	A 156+75.00	441.55	50	-0.23%	0.02%	201.15	0.02	
	VLOW	A 156+95.98	441.55						
	PVT	A 157+00.00	441.56						
	PVT	A 157+00.00	441.56						
	POVT	A 157+50.00	441.57						
Linear	POVT	A 158+00.00	441.58	200	0.02%				
	POVT	A 158+50.00	441.59						
	PVC	A 159+00.00	441.6						
	PVC	A 159+00.00	441.6						
Symmetrical Parabola	VHIGH	A 159+04.02	441.6	50	0.02%	-0.23%	201.15	-0.02	4366.41
	PVI	A 159+25.00	441.6						
	PVT	A 159+50.00	441.54						
	PVT	A 159+50.00	441.54						
Linear	POVT	A 160+00.00	441.43	125	-0.23%				
	POVT	A 160+50.00	441.31						
	PVC	A 160+75.00	441.26						
	PVC	A 160+75.00	441.26						
Symmetrical Parabola	PVI	A 161+00.00	441.2	50	-0.23%	0.06%	172.35	0.02	
	POVC	A 161+00.00	441.22						
	VLOW	A 161+14.39	441.21						
	PVT	A 161+25.00	441.22						
	PVT	A 161+25.00	441.22						
Linear	POVT	A 161+50.00	441.23	110	0.06%				
	POVT	A 162+00.00	441.26						
	PVC	A 162+35.00	441.28						
	PVC	A 162+35.00	441.28						
	POVC	A 162+50.00	441.3						
	POVC	A 163+00.00	441.52						
	POVC	A 163+50.00	441.97						
	POVC	A 164+00.00	442.66						
Symmetrical Parabola	PVI	A 164+25.00	441.4	380	0.06%	3.62%	106.68	1.69	
	POVC	A 164+50.00	443.58						
	POVC	A 165+00.00	444.74						
	POVC	A 165+50.00	446.13						
	POVC	A 166+00.00	447.75						
	PVT	A 166+15.00	448.28						
	PVT	A 166+15.00	448.28						
Linear	POVT	A 166+50.00	449.55	150	3.62%				
	POVT	A 167+00.00	451.37						
	POVT	A 167+50.00	453.18						
	PVC	A 167+65.00	453.72						

PVC - POINT OF VERTICAL CURVATURE
PVT - POINT OF VERTICAL TANGENCY
PVI - POINT OF VERTICAL INTERSECTION
POVT - POINT ON VERTICAL TANGENT
POVT - POINT ON VERTICAL CURVE

VERTICAL ALIGNMENT TABLE SHEET 5

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_122.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 122 OF 217

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
	PVC	A 167+65.00	453.72						
	POVC	A 168+00.00	454.87						
	POVC	A 168+50.00	456.08						
	PVI	A 168+90.00	458.25						
Symmetrical Parabola	POVC	A 169+00.00	456.81	250	3.62%	-1.33%	50.48	-1.55	342.92
	VHIGH	A 169+47.94	457.03						
	POVC	A 169+50.00	457.03						
	POVC	A 170+00.00	456.77						
	PVT	A 170+15.00	456.59						
	PVT	A 170+15.00	456.59						
Linear	POVT	A 170+50.00	456.12	55	-1.33%				
	PVC	A 170+70.00	455.86						
	PVC	A 170+70.00	455.86						
	POVC	A 171+00.00	455.38						
	POVC	A 171+50.00	454.22						
	POVC	A 172+00.00	452.62						
Symmetrical Parabola	PVI	A 172+25.00	453.8	310	-1.33%	-6.89%	55.78	-2.15	349.17
	POVC	A 172+50.00	450.56						
	POVC	A 173+00.00	448.06						
	POVC	A 173+50.00	445.11						
	PVT	A 173+80.00	443.13						
	PVT	A 173+80.00	443.13						
Linear	POVT	A 174+00.00	441.75	95	-6.89%				
	POVT	A 174+50.00	438.31						
	PVC	A 174+75.00	436.58						
	PVC	A 174+75.00	436.58						
	POVC	A 175+00.00	434.93						
	POVC	A 175+50.00	432.03						
	POVC	A 176+00.00	429.66						
Symmetrical Parabola	PVI	A 176+20.00	426.6	290	-6.89%	-0.63%	46.34	2.27	
	POVC	A 176+50.00	427.84						
	POVC	A 177+00.00	426.55						
	POVC	A 177+50.00	425.81						
	PVT	A 177+65.00	425.69						
	PVT	A 177+65.00	425.69						
Linear	POVT	A 178+00.00	425.47	85	-0.63%				
	PVC	A 178+50.00	425.16						
	PVC	A 178+50.00	425.16						
Symmetrical Parabola	PVI	A 178+75.00	425	50	-0.63%	-1.00%	134.21	-0.02	2921.67
	PVT	A 179+00.00	424.75						
	PVT	A 179+00.00	424.75						
Linear	PVC	A 179+50.00	424.25	50	-1.00%				
	PVC	A 179+50.00	424.25						
Symmetrical Parabola	PVI	A 179+75.00	424	50	-1.00%	-0.33%	75	0.04	
	PVRC	A 180+00.00	423.92						
	PVRC	A 180+00.00	423.92						
Symmetrical Parabola	PVI	A 180+50.00	423.75	100	-0.33%	-1.50%	85.71	-0.15	974.99
	POVC	A 180+50.00	423.6						
	PVRC	A 181+00.00	423						
	PVRC	A 181+00.00	423						
	POVC	A 181+50.00	422.35						
Symmetrical Parabola	PVI	A 181+70.00	421.95	140	-1.50%	-0.43%	130.23	0.19	
	POVC	A 182+00.00	421.88						
	PVT	A 182+40.00	421.65						
	PVT	A 182+40.00	421.65						
Linear	POVT	A 182+50.00	421.61	105	-0.43%				
	POVT	A 183+00.00	421.4						
	PVC	A 183+45.00	421.21						
	PVC	A 183+45.00	421.21						
	POVC	A 183+50.00	421.19						
Symmetrical Parabola	VLOW	A 183+64.86	421.16	50	-0.43%	0.65%	46.72	0.07	
	PVI	A 183+70.00	421.1						
	PVT	A 183+95.00	421.26						
	PVT	A 183+95.00	421.26						
Linear	POVT	A 184+00.00	421.29	105	0.65%				
	POVT	A 184+50.00	421.62						
	PVC	A 185+00.00	421.94						
	PVC	A 185+00.00	421.94						
Symmetrical Parabola	PVI	A 185+25.00	422.1	50	0.65%	1.40%	66.24	0.05	
	PVT	A 185+50.00	422.45						
	PVT	A 185+50.00	422.45						
Linear	PVI	A 185+75.00	422.8	25	1.40%				
	PVI	A 185+75.00	422.8						
Linear	POVT	A 186+00.00	422.95	50	0.58%				
	POE	A 186+25.00	423.09						

PVC - POINT OF VERTICAL CURVATURE
PVT - POINT OF VERTICAL TANGENCY
PVI - POINT OF VERTICAL INTERSECTION
POVT - POINT ON VERTICAL TANGENT
POVT - POINT ON VERTICAL CURVE

VERTICAL ALIGNMENT TABLE SHEET 6

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_123.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 123 OF 217

SOIL CLASSIFICATION

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

ROCK QUALITY DESIGNATION

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

SHEAR STRENGTH

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

CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

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

COMMONLY USED SYMBOLS

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

COLOR

blk	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gry	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		

DEFINITIONS (AASHTO)

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

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

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

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

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

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

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

VARVED - Alternate layers of silt and clay.

HARDPAN - Extremely dense soil, cemented layer, not softened when wet.

MUCK - Soft organic soil (containing > 10% organic material.

MOISTURE CONTENT - Weight of water divided by dry weight of soil.

FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.

STRIKE - Angle from magnetic north to line of intersection of bed with a horizontal plane.

DIP - Inclination of bed with a horizontal plane.

GENERAL NOTES

1. The test borings shown herein were drilled by the Agency between the period from 05/08/12 through 05/10/12.

2. Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.

3. Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.

4. Engineering judgement was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgement by the Contractor.

5. Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.

6. Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.

SEE PROJECT LAYOUT SHEETS FOR BORING LOCATIONS

BORING AND CORING SHEET 1

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_124.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 124 OF 217

BORING NO.	DATE DRILLED	MILE MARKER	OFFSET (FT)	DEPTH (FT) T	DEPTH (FT) B	SAMPLE TYPE	FIELD DESCRIPTION: SOIL TYPE, COLOR, MOISTURE	LABORATORY RESULTS: % MOISTURE	AASHTO CLASS.	% GRAVEL	% SAND	% FINES	LIQUID LIMIT	PLASTIC LIMIT
B-101	5/8/2012	1.86	5	0.0	0.75		Asphalt Pavement							
				0.8	1.0		Subbase							
				1.0	2.5	Auger	f.m.c. SAND, S. f.c. Gravel, l. silt, gry, moist	3.8	A-1-b	32.3	53.3	14.4	NP	
				2.5	5.0	Auger	f.m.c. SAND, S. Silt, S. f.c. Gravel, brn, moist	7.8	A-2-4	29.5	45.2	25.3	NP	
							End of Boring @ 5.0'							
B-102	5/8/2012	2.06	5	0.0	0.75		Asphalt Pavement							
				0.8	1.3		Concrete Pavement							
				1.3	5.0	Auger	f.m.c. SAND, S. Silt, t. gravel, brn, moist		A-1-b					
							End of Boring @ 5.0'							
B-103	5/8/2012	2.26	5	0.0	0.75		Asphalt Pavement							
				0.8	1.2		Concrete Pavement							
				1.2	3.5		f.m.c. SAND, S. Silt, l. f.c. gravel, brn, moist		A-1-b					
				3.5	5.0	Auger	Clayey SILT, l. f.m.c. sand, l. f.c. gravel, gry, moist		A-4					
							End of Boring @ 5.0 feet							
B-104	5/8/2012	2.46	5	0.0	0.67	Core	Asphalt Pavement							
				0.7	1.3	Core	Concrete Pavement							
				1.3	5.0	Auger	f.m.c. SAND and f.c. GRAVEL, S. Silt, brn, moist	7.8	A-1-b	34.6	41.7	23.7	NP	
							End of Boring @ 5.0'							
B-105	5/8/2012	2.66	5	0.0	0.63	Core	Asphalt Pavement							
				0.6	1.3	Core	Concrete Pavement							
				1.3	3.5	Auger	f.m.c. SAND, l. silt, l. f.c. gravel, brn, moist		A-1-b					
				3.5	5.0	Auger	f.m. SAND, l. silt, t. f.c. gravel, brn, moist		A-1-b					
							End of Boring @ 5.0'							
B-106	5/8/2012	2.86	5	0.0	0.25		Asphalt Pavement							
				0.3	3.5	Auger	f.c. GRAVEL, S. f.m.c. Sand, l. silt, t. fill, brn, moist	4.2	A-1-b	50.6	34.0	15.5	NP	
				3.5	5.0	Auger	SILT, l. f.m.c. sand, t. f. gravel, gry, moist	25.1	A-4	2.9	10.7	86.4	NP	
							End of Boring @ 5.0'							
B-107	5/8/2012	3.06	5	0.0	1.0		Asphalt Pavement							
				1.0	1.4		f.m.c. Sand, S. Silt, l. f. gravel, brn, moist	4.9	A-2-4	7.0	70.5	22.5	NP	
				1.4	3.0	Auger	f.m.c. SAND, S. f.c. gravel, l. silt, brn, moist		A-1-b					
				3.0	5.0		f.c. GRAVEL, S. f.m.c. Sand, l. silt, brn, moist		A-1-a					
							End of Boring @ 5.0'							
B-108	5/9/2012	3.26	5	0	0.33		Asphalt Pavement							
				0.3	0.75		Subbase							
				0.8	5	Auger	f.c. GRAVEL, S. f.m.c. Sand, l. silt, brn, moist		A-1-a					
							End of Boring @ 5.0'							

BORING NO.	DATE DRILLED	MILE MARKER	OFFSET (FT)	DEPTH (FT) T	DEPTH (FT) B	SAMPLE TYPE	FIELD DESCRIPTION: SOIL TYPE, COLOR, MOISTURE	LABORATORY RESULTS: % MOISTURE	AASHTO CLASS.	% GRAVEL	% SAND	% FINES	LIQUID LIMIT	PLASTIC LIMIT
B-109	5/9/2012	3.46	5	0.0	0.38		Asphalt Pavement							
				0.4	0.9		Subbase							
				0.9	4.0	Auger	f.m.c. SAND, S. f.c. Gravel, l. silt, brn, moist		A-1-b					
				4.0	5.0	Auger	f.m.c. SAND, S. Silt, l. f.c. gravel, d. brn/brn, moist		A-1-b					
							End of Boring @ 5.0'							
B-110	5/9/2012	3.66	7	0.0	0.46	Core	Asphalt Pavement							
				0.5	1.2	Auger	Subbase - f.c. GRAVEL, t. silt, t. f.m.c. sand, gry, moist	2.1	A-1-a	97.3	1.9	0.9	NP	
				1.2	5.0	Auger	f.m.c. SAND, S. Silt, S. f.c. Gravel, brn, moist	6.2	A-1-b	29.7	46.9	23.4	NP	
							End of Boring @ 5.0'							
B-111	5/9/2012	3.86	4.5	0.0	0.25		Asphalt Pavement							
				0.3	1.3		Subbase							
				1.3	5.0	Auger	f.m.c. SAND, S. f.c. gravel, l. silt, brn, moist		A-1-b					
							End of Boring @ 5.0'							
B-112	5/9/2012	4.06	7	0.0	0.25		Asphalt Pavement							
				0.3	1.3	Auger	Subbase - f.c. GRAVEL, S. f.m.c. SAND, l. silt, gry, moist	1.9	A-1-a	57.8	27.5	14.7	NP	
				1.3	4.0	Auger	f.m.c. SAND, S. f.c. gravel, l. silt, brn, moist		A-1-b					
				4.0	5.0	Auger	f.m. SAND, S. Silt, t. c. sand, t. f. gravel, brn, moist	10.4	A-2-4	1.2	77.2	21.7	NP	
							End of Boring @ 5.0'							
B-113	5/9/2012	4.26	5	0.0	0.42		Asphalt Pavement							
				0.4	1.8	Auger	Subbase - f.c. GRAVEL, S. f.m.c. Sand, l. silt, gry, moist		A-1-a					
				1.8	5.0	Auger	f.m. SAND, S. silt, t. m.c. sand, t. f.c. gravel, brn, moist		A-1-b					
							End of Boring @ 5.0'							
B-114	5/9/2012	4.46	7	0.0	0.5		Asphalt Pavement							
				0.5	1.8		Subbase							
				1.8	4.0	Auger	f.m.c. SAND, S. f.c. gravel, l. silt, brn, moist		A-1-b					
				4.0	5.0		f. SAND, S. silt, t. m.c. sand, t. f.c. gravel, brn, moist		A-1-b					
							End of Boring @ 5.0'							
B-115	5/9/2012	4.66	7	0.0	0.42		Asphalt Pavement							
				0.4	1.8		Subbase							
				1.8	4.0	Auger	f.m.c. SAND, S. f.c. Gravel, l. silt, brn, moist	3.0	A-1-b	25.0	61.2	13.7	NP	
				4.0	5.0	Auger	grades to l. f.c. gravel							
							End of Boring @ 5.0'							
B-116	5/9/2012	4.86	7	0.0	0.67		Asphalt Pavement							
				0.7	1.9	Auger	Subbase - f.c. GRAVEL, S. f.m.c. SAND, l. silt, gry, moist	3.4	A-1-a	59.3	26.7	14.0	NP	
				1.9	5.0	Auger	f.c. GRAVEL, S. f.m.c SAND, l. silt, brn, moist		A-1-a					
							End of Boring @ 5.0'							

NOTE: SEE PROJECT LAYOUT SHEETS FOR THE LOCATION OF BORE HOLES

BORING AND CORING SHEET 2

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_125.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 125 OF 217

BORING NO.	DATE DRILLED	MILE MARKER	OFFSET (FT)	DEPTH (FT) T	DEPTH (FT) B	SAMPLE TYPE	FIELD DESCRIPTION: SOIL TYPE, COLOR, MOISTURE	LABORATORY RESULTS: % MOISTURE	AASHTO CLASS.	% GRAVEL	% SAND	% FINES	LIQUID LIMIT	PLASTIC LIMIT
B-117	5/9/2012	5.06	5	0.0	0.4		Asphalt Pavement							
				0.4	1.8	Auger	Subbase - f.c. GRAVEL, S. f.m.c. Sand, l. silt, gry, moist	1.5	A-1-a	66.1	21.5	12.4	NP	
				1.8	5.0	Auger	f.m.c. SAND, S. Silt, S. f.c. Gravel, brn, moist	3.2	A-1-b	33.7	46.1	20.2	NP	
							End of Boring @ 5.0'							
B-118	5/9/2012	5.26	6	0.0	0.9		Asphalt Pavement							
				0.9	1.8	Auger	Subbase - f.c. GRAVEL, l. f.m.c. sand, t. silt, gry, moist		A-1-a					
				1.8	5.0	Auger	f.m.c. SAND, S. f.c. Gravel, l. silt, brn, moist		A-1-b					
							End of Boring @ 5.0'							
B-119	5/9/2012	5.46	5.5	0.0	0.8		Asphalt Pavement - 3" Top Coat, 6" Decomposed Base							
				0.8	1.8		Subbase							
				1.8	3.5	Auger	f.m.c. SAND, S. f.c. Gravel, l. silt, brn, moist		A-1-b					
				3.5	5.0	Auger	grades to S. Silt		A-1-b					
							End of Boring @ 5.0'							
B-120	5/9/2012	5.66	6.5	0.0	0.8		Asphalt Pavement - 3" Top Coat, 7" Decomposed Base							
				0.8	2.2		Subbase							
				2.2	5.0	Auger	f.m.c. SAND, S. Silt, t. f. gravel, brn, moist	12.5	A-2-4	8.6	57.6	33.8	NP	
							End of Boring @ 5.0'							
B-121	5/9/2012	0.20	4.5	0.0	0.7		Asphalt Pavement - 3" Top Coat, 5" Decomposed Base							
				0.7	1.7	Auger	Subbase - f.c. GRAVEL, S. f.m.c. Sand, l. silt, gry, moist	1.6	A-1-a	65.7	22.5	11.8	NP	
				1.7	5.0	Auger	f.m.c. SAND, S. f.c. gravel, l. silt, brn, moist		A-1-b					
							End of Boring @ 5.0'							
B-122	5/9/2012	0.40	5	0.0	0.7		Asphalt Pavement - 3" Top Coat, 5" Decomposed Base							
				0.7	1.9	Auger	Subbase -f.c. GRAVEL, S. f.m.c. Sand, l. silt, gry, moist		A-1-a					
				1.9	4.3	Auger	f.m.c. SAND, S. f.c. Gravel, l. silt, brn, moist		A-1-b					
							Auger refusal @ 4.3'							
B-123	5/9/2012	0.60	5	0.0	0.8		Asphalt Pavement - 4" Top Coat, 5" Decomposed Base							
				0.8	1.8		Subbase							
				1.8	3.0	Auger	f.m.c. SAND, S. Silt, S. f.c. gravel, brn, moist	10.2	A-2-4	20.2	56.3	23.5	NP	
				3.0	5.0	Auger	becomes d. brn		A-2-4					
							End of Boring @ 5.0'							
B-124	5/9/2012	0.80	6.5	0.0	0.7		Asphalt Pavement - 3" Top Coat, 5" Decomposed Base							
				0.7	2.2		Subbase							
				2.2	3.0	Auger	f.m.c. SAND, S. f.c. gravel, l. silt, brn, moist		A-1-b					
				3.0	5.0	Auger	f. SAND, l. silt, t. m.c. sand, t. f. gravel, brn, moist to wet		A-1-b					
							End of Boring @ 5.0'							

BORING NO.	DATE DRILLED	MILE MARKER	OFFSET (FT)	DEPTH (FT) T	DEPTH (FT) B	SAMPLE TYPE	FIELD DESCRIPTION: SOIL TYPE, COLOR, MOISTURE	LABORATORY RESULTS: % MOISTURE	AASHTO CLASS.	% GRAVEL	% SAND	% FINES	LIQUID LIMIT	PLASTIC LIMIT
B-125	5/9/2012	1.00	6.5	0.0	1.0		Asphalt Pavement - 4" Top Coat, 8" Decomposed Base							
				1.0	2.0	Auger	Subbase - f.c. GRAVEL, S. f.m.c. Sand, l. silt, gry, moist		A-1-a					
				2.0	3.9	Auger	f.m.c. SAND, S. f.c. gravel, l. silt, d. brn, moist		A-1-b					
							Auger refusal @ 3.9'							
B-126	5/9/2012	1.20	6	0.0	0.7		Asphalt Pavement							
				0.7	2.0	Auger	Subbase - f.c. GRAVEL, S. f.m.c. sand, t. silt, gry, moist	2.1	A-1-a	64.6	23.2	12.2	NP	
				2.0	4.5	Auger	f.m.c. SAND, l. silt, t. f.c. gravel, brn, moist		A-1-b					
							Auger refusal @ 4.5'							
B-127	5/9/2012	1.40	6	0.0	0.7		Asphalt Pavement							
				0.7	1.3	Core	Concrete Pavement							
				1.3	3.0	Auger	f.c. GRAVEL, S. f.m.c. Sand, l. silt, gry, wet		A-1-a					
				3.0	5.0	Auger	SILT and f.m.c. SAND, l. f.c. gravel, brn, moist	13.6	A-4	10.4	42.2	47.3	NP	
							End of Boring @ 5.0'							
B-128	5/10/2012	1.60	7	0.0	0.5	Core	Asphalt Pavement							
				0.5	1.0	Core	Concrete Pavement							
				1.0	5.0	Auger	f.c. GRAVEL, S. f.m.c. Sand, l. silt, brn, moist		A-1-a					
							End of Boring @ 5.0'							
B-129	5/10/2012	1.80	4.5	0.0	0.6		Asphalt Pavement							
				0.6	1.2		Concrete Pavement							
				1.2	4.0	Auger	f.m.c. SAND and f.c. Gravel, S. Silt, brn, moist	7.5	A-2-4	30.0	42.6	27.4	NP	
				4.0	5.0	Auger	SILT, l. f.m.c. sand, t. f.c. gravel, brn/d. brn, moist	22.7	A-4	0.7	16.3	83.0	NP	
							End of Boring @ 5.0'							
B-130	5/10/2012	2.00	6.5	0.0	0.6		Asphalt Pavement							
				0.6	1.2		Concrete Pavement							
				1.2	3.5	Auger	f.m.c. SAND, S. f.c. gravel, l. silt, brn, moist		A-1-b					
				3.5	5.0	Auger	SILT, l. f.m.c. sand, brn/d. brn, moist		A-4					
							Auger refusal @ 4.3'							
B-131	5/10/2012	2.20	8	0.0	1.0		Asphalt Pavement - 3" Top Coat, 9" Decomposed Base							
				1.0	3.0	Auger	f.m.c. SAND, S. f.c. gravel, l. silt, brn, moist		A-1-b					
				3.0	5.0	Auger	f.m. SAND, l. silt, t. f.c. gravel, l. brn, moist		A-1-b					
							End of Boring @ 5.0'							
B-132	5/10/2012	2.40	6.5	0.0	0.5		Asphalt Pavement							
				0.5	1.7		Crushed Stone							
				1.7	2.5	Auger	f.m.c. SAND, S. f.c. gravel, l. silt, brn, moist		A-1-b					
				2.5	4.6	Auger	f. SAND, S. Silt, l. f.c. gravel, gry, moist		A-1-b					
							Auger refusal @ 4.6'							

NOTE: SEE PROJECT LAYOUT SHEETS FOR THE LOCATION OF BORE HOLES

BORING AND CORING SHEET 3

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_126.I

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 126 OF 217

BORING NO.	DATE DRILLED	MILE MARKER	OFFSET (FT)	DEPTH (FT) T	DEPTH (FT) B	SAMPLE TYPE	FIELD DESCRIPTION: SOIL TYPE, COLOR, MOISTURE	LABORATORY RESULTS: % MOISTURE	AASHTO CLASS.	% GRAVEL	% SAND	% FINES	LIQUID LIMIT	PLASTIC LIMIT
B-133	5/10/2012	2.60	6.5	0.0	0.6		Asphalt Pavement							
				0.6	1.8	Auger	Crushed Stone		A-1-a					
				1.8	5.0	Auger	f.m.c. SAND, S. f.c. gravel, l. silt, brn, moist		A-1-b					
							End of Boring @ 5.0'							
B-134	5/10/2012	2.80	7.5	0.0	0.5	Core	Asphalt Pavement							
				0.5	1.2	Core	Concrete Pavement							
				1.2	3.0	Auger	f.m.c. SAND and f.c. GRAVEL, l. silt, brn, moist	4.2	A-1-b	39.4	42.4	18.3	NP	
				3.0	5.0	Auger	SILT, S. f.m.c. Sand, t. f.c. gravel, brn, moist	19.3	A-4	3.9	26.1	69.9	NP	
							End of Boring @ 5.0'							
B-135	5/10/2012	3.00	7.5	0.0	0.6	Core	Asphalt Pavement							
				0.6	1.1	Core	Concrete Pavement							
				1.1	2.5	Auger	f.m.c. SAND, S. f.c. gravel, l. silt, brn, moist		A-1-b					
				2.5	5.0		grades to f. SAND, t. m.c. sand		A-1-b					
							End of Boring @ 5.0'							
B-136	5/10/2012	3.20	6.5	0.0	0.5		Asphalt Pavement							
				0.5	1.1		Concrete Pavement							
				1.1	2.5	Auger	f.m.c. SAND, S. f.c. gravel, l. silt, brn, moist		A-1-b					
				2.5	5.0	Auger	grades to S. Silt		A-1-b					
							End of Boring @ 5.0'							
B-137	5/10/2012	3.40	6	0.0	0.5		Asphalt Pavement							
				0.5	1.6		Crushed Stone		A-1-a					
				1.6	3.5	Auger	f.m.c. SAND, S. Silt, S. f.c. Gravel, brn, moist	7.3	A-2-4	25.5	43.1	31.4	NP	
				3.5	5.0	Auger	f.m.c. SAND, S. Silt, l. f.c. gravel, gry/blk/brn, moist		A-1-b					
							End of Boring @ 5.0'							
B-138	5/10/2012	3.50	6.5	0.0	0.5		Asphalt Pavement							
				0.5	2.0		Subbase		A-1-b					
				2.0	5.0	Auger	f.m.c. SAND, l. silt, t. f. gravel, brn, moist		A-1-b					
							End of Boring @ 5.0'							

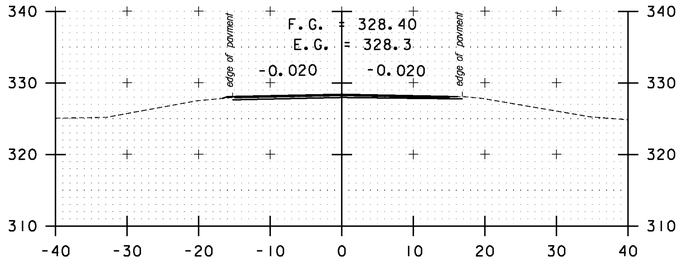
NOTE: SEE PROJECT LAYOUT SHEETS FOR THE LOCATION OF BORE HOLES

BORING AND CORING SHEET 4

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: pp07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: pp07C172_126A.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 126A OF 217



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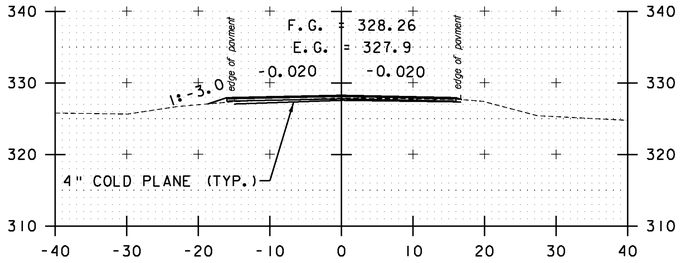
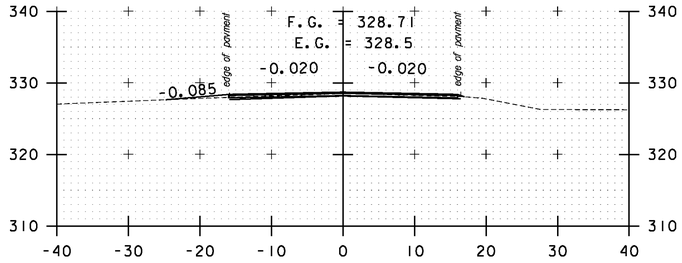
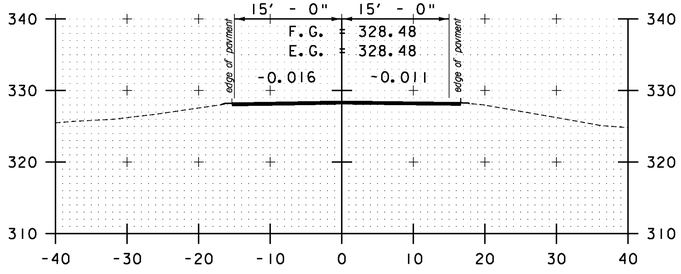


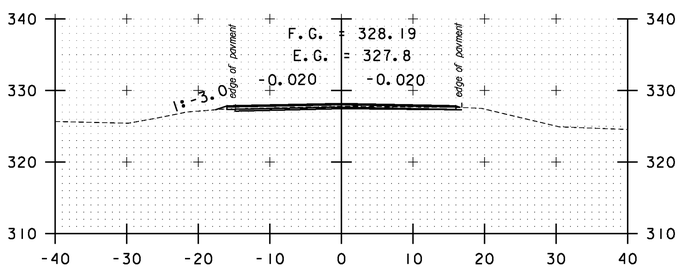
101+00



DRIVE LT
102+50



BEGIN PROJECT - MATCH EXISTING
99+25



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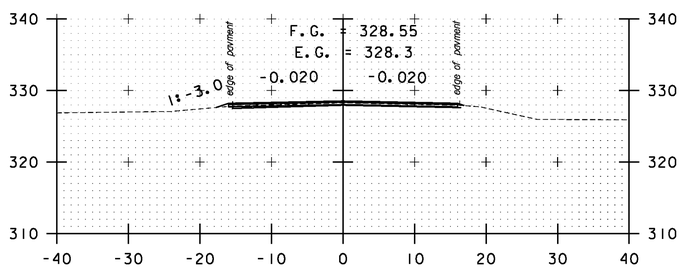

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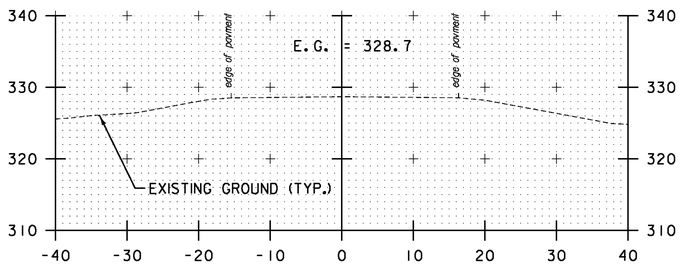

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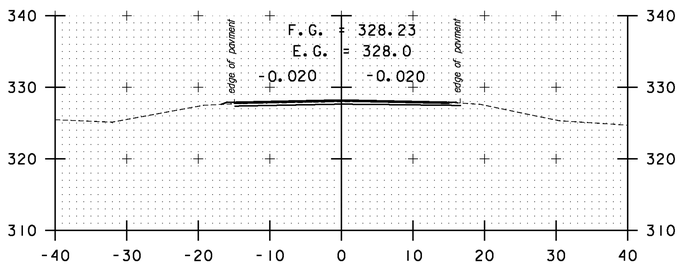

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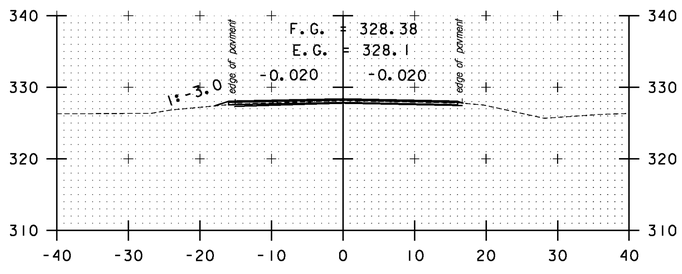


101+50

STA. 99+00 TO STA. 102+50

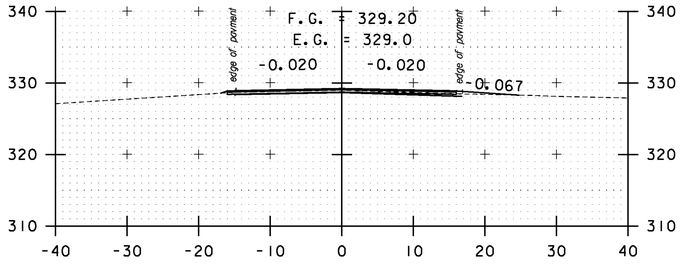
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 1

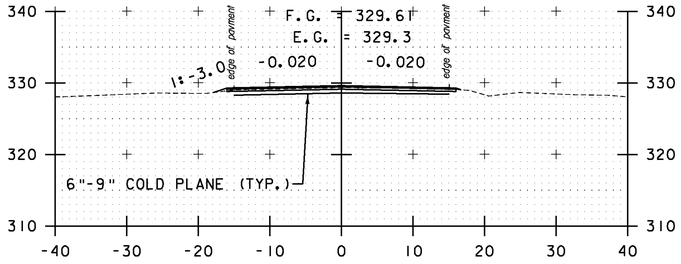
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_127.1

PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 127 OF 217



DRIVE RT
104+00



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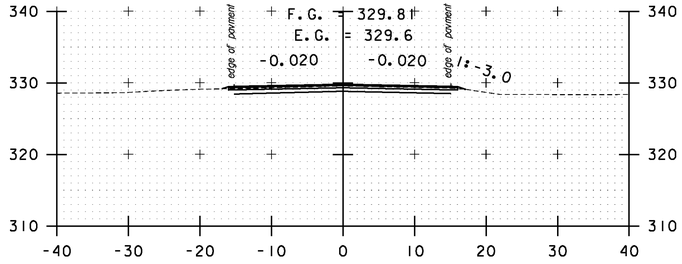
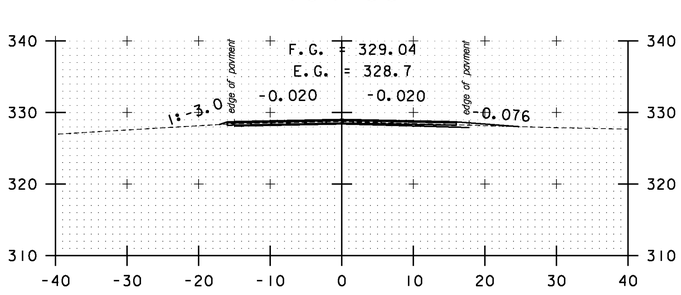
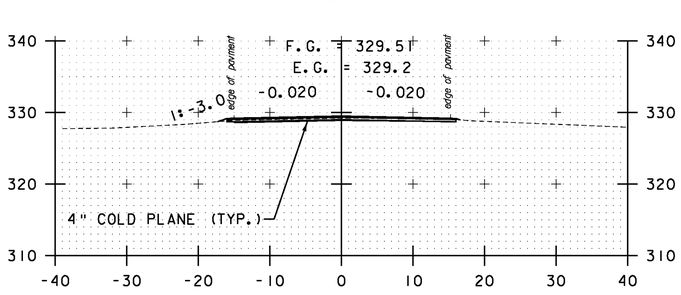


107+00



DRIVE RT
103+50



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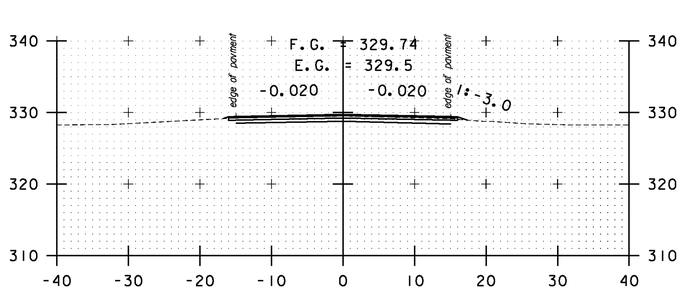
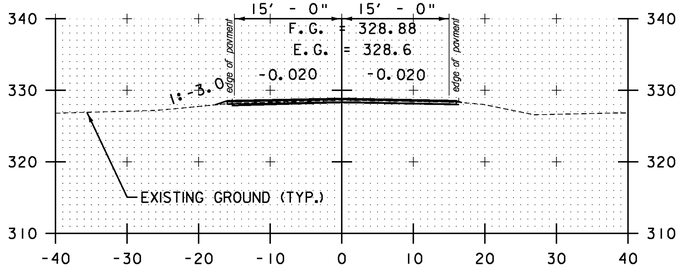


106+50



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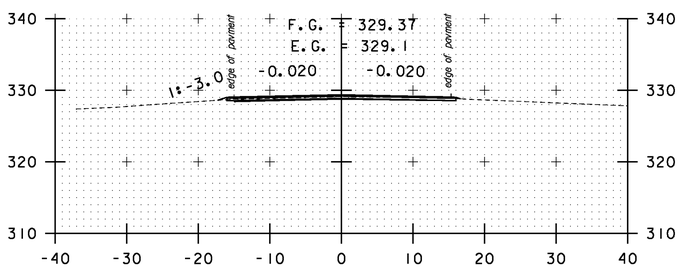

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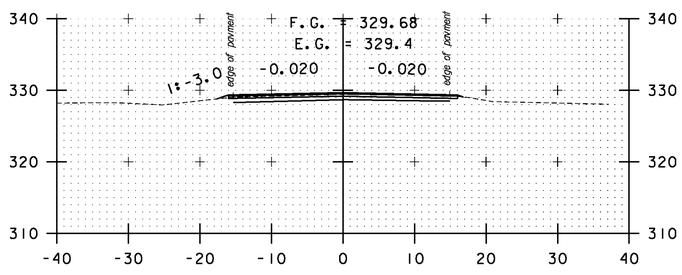


106+00

STA. 103+00 TO STA. 107+00

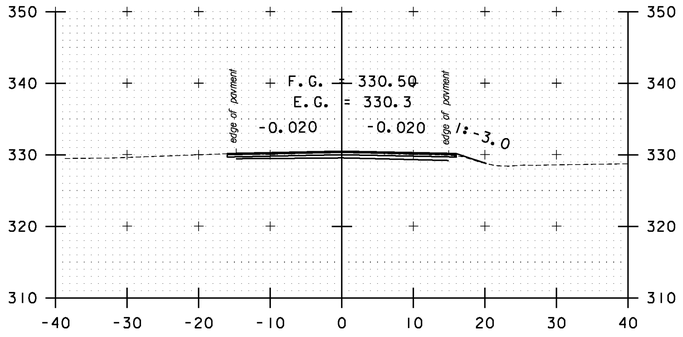
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 2

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_128.1

PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 128 OF 217



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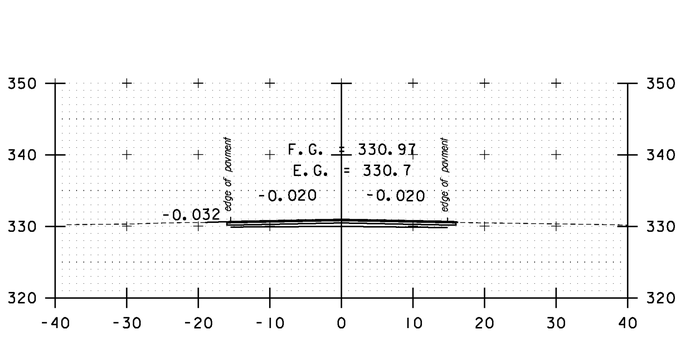
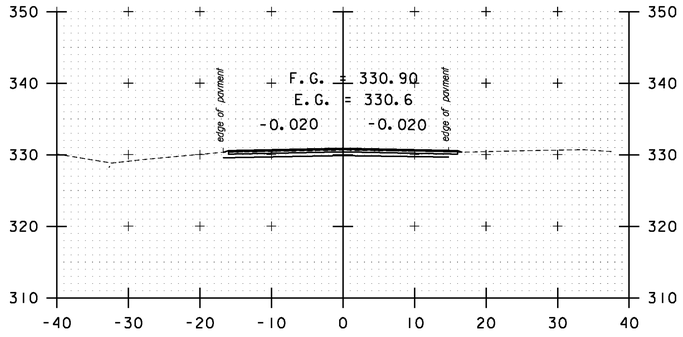
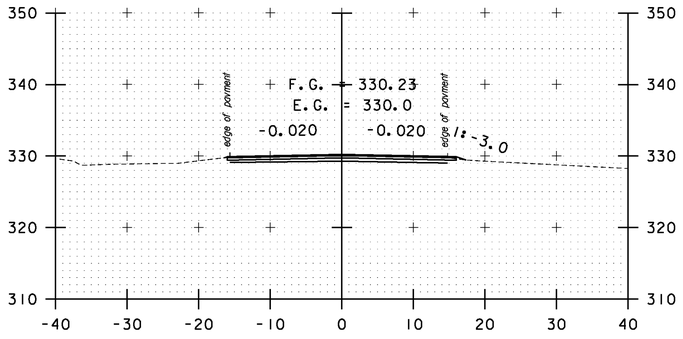


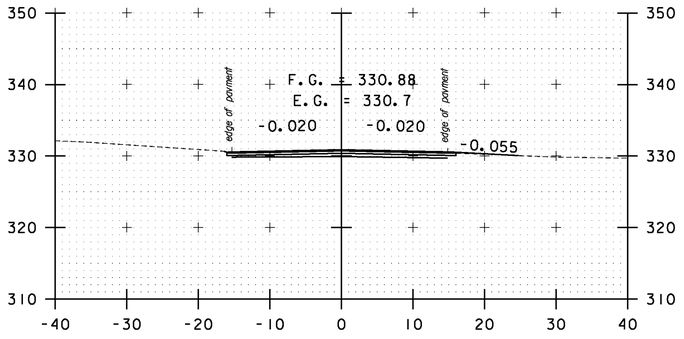
DRIVE LT
110+00



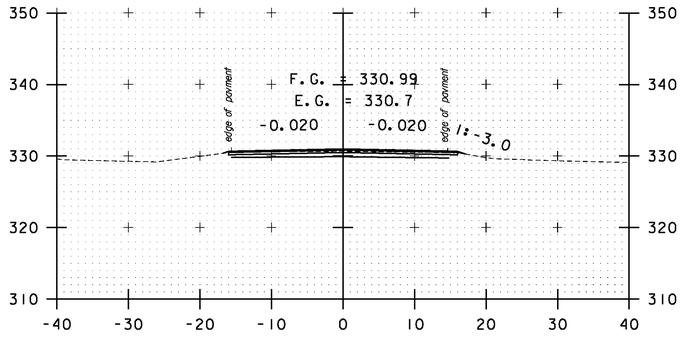
111+50



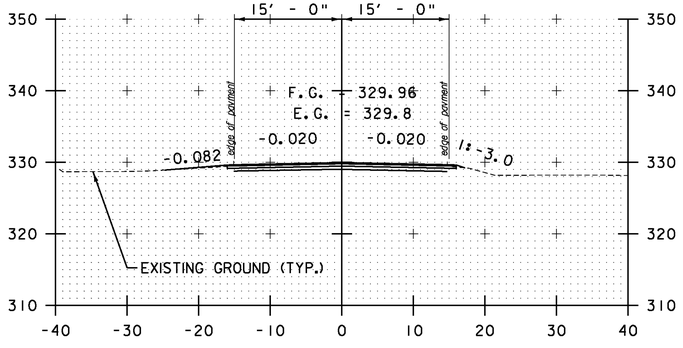
108+00



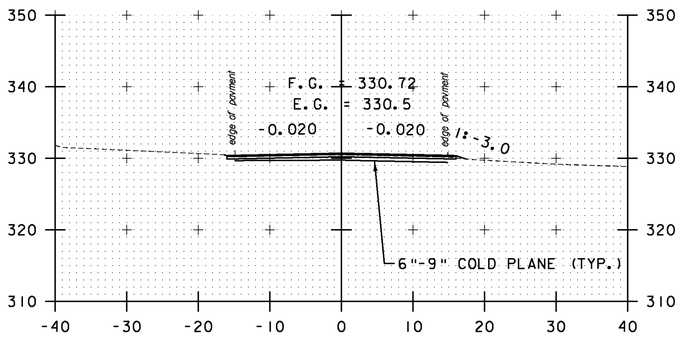
DRIVE RT
109+50



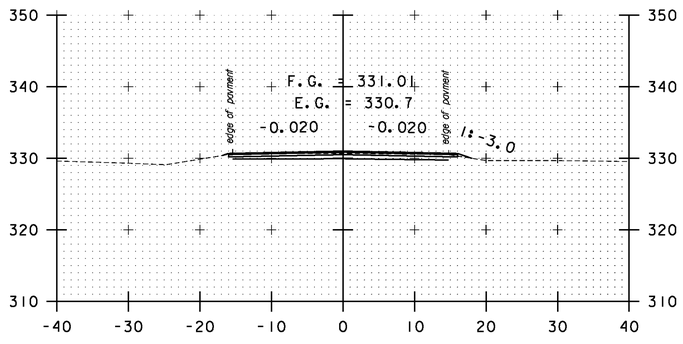
111+00



DRIVE LT
107+50



109+00



110+50

STA. 107+50 TO STA. 111+50

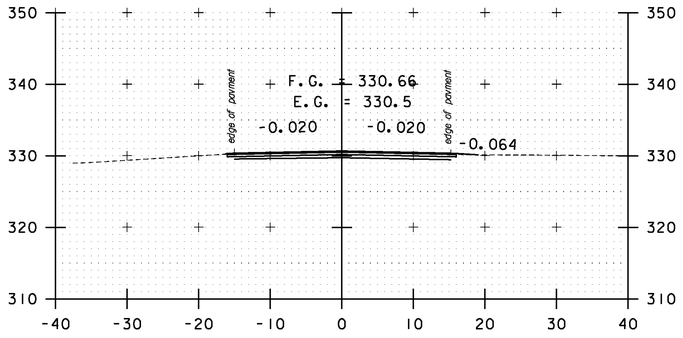
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 3

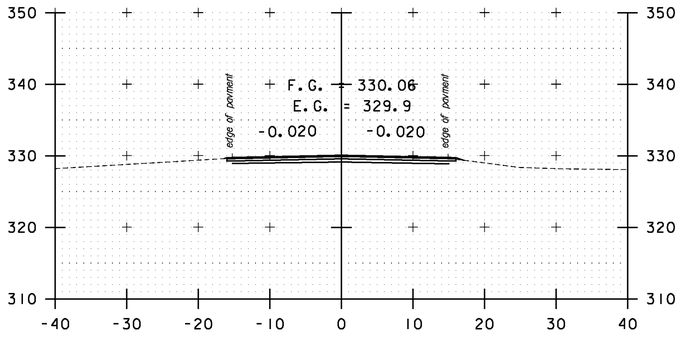
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_129.1

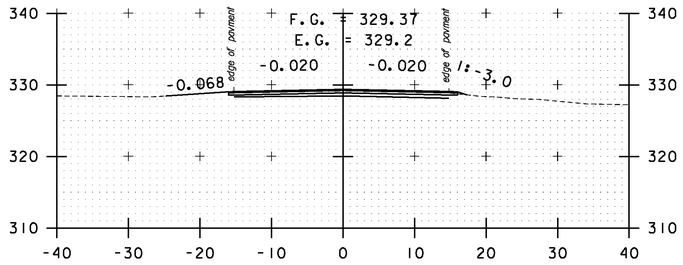
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 129 OF 217



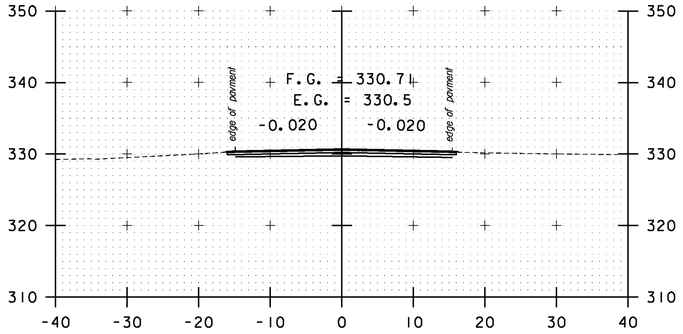
DRIVE RT
113+00



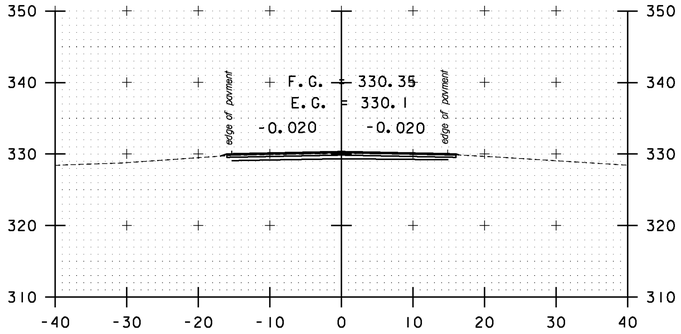
114+50



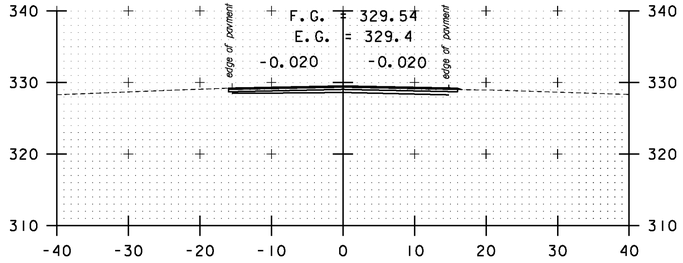
DRIVE LT
116+00



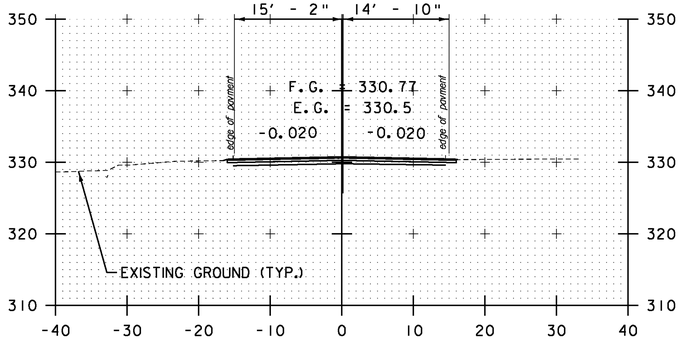
112+50



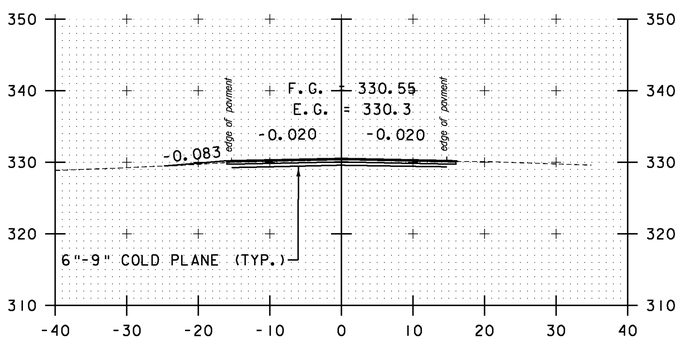
114+00



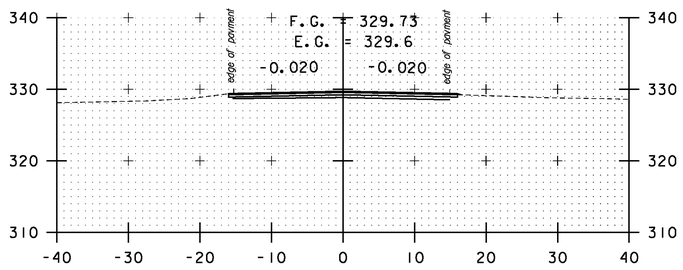
115+50



112+00



DRIVE LT
113+50



115+00

STA. 112+00 TO STA. 116+00

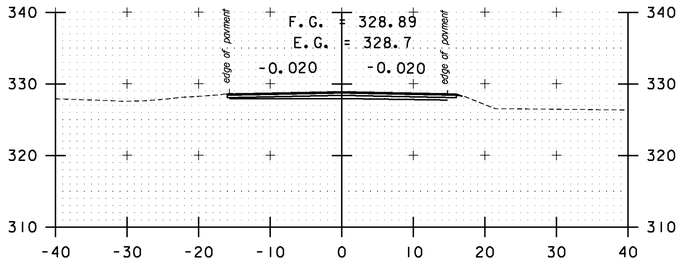
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 4

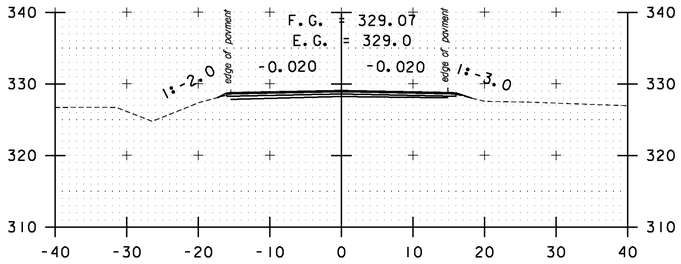
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_130.1

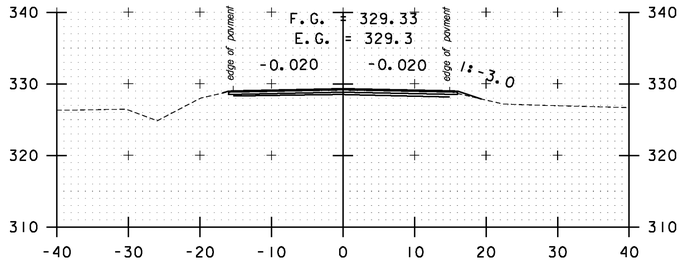
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 130 OF 217



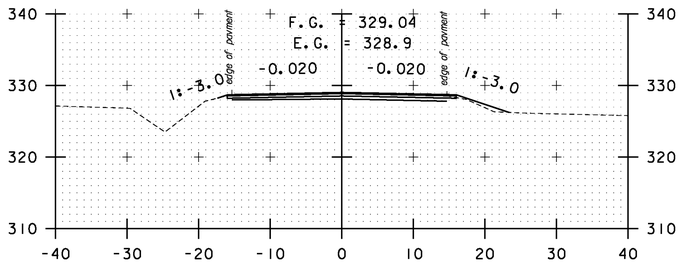
117+50



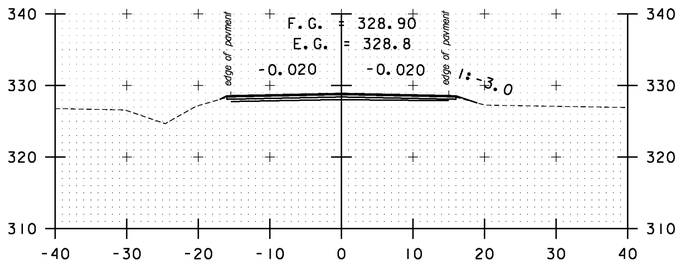
119+00



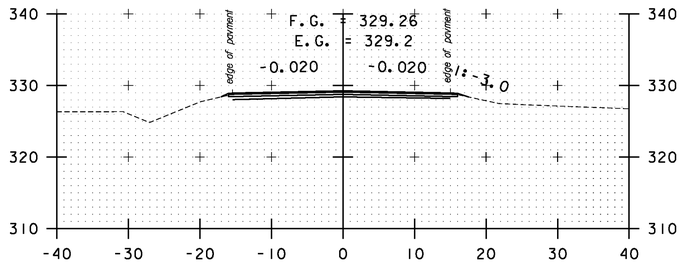
120+50



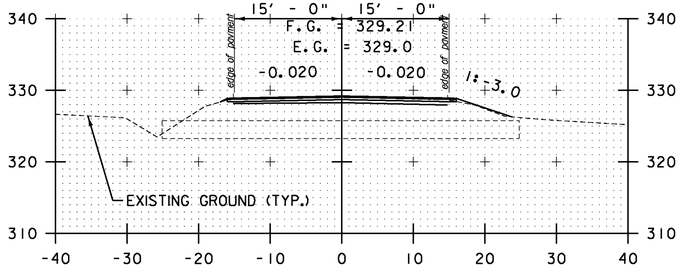
117+00



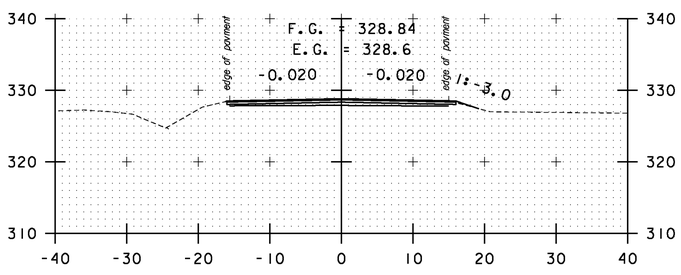
118+50



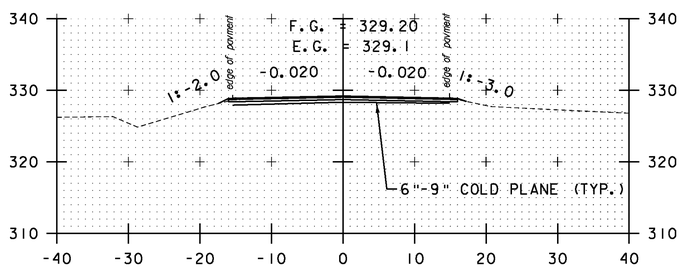
120+00



116+50



118+00



119+50

STA. 116+50 TO STA. 120+50

SCALE 1" = 10'-0

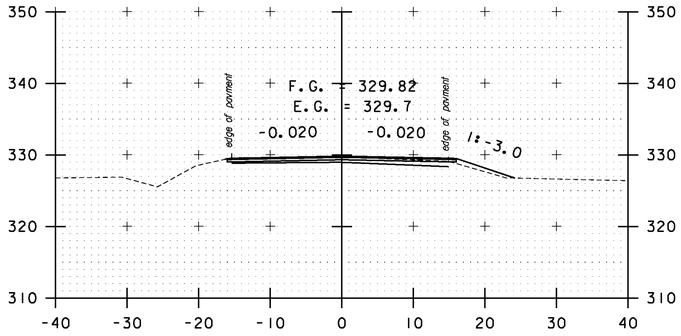
10 0 10

CROSS SECTION SHEET 5

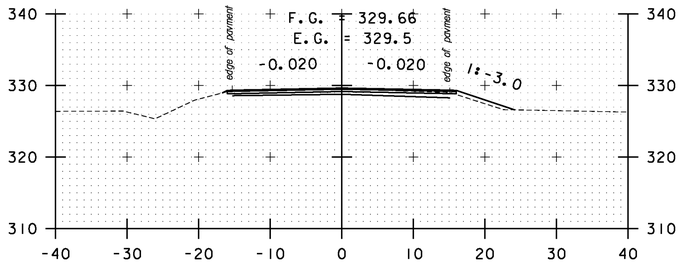
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_131.1

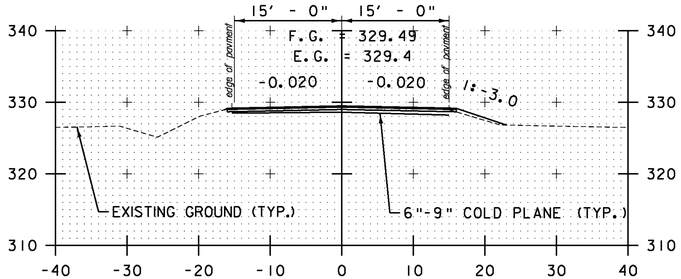
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 131 OF 217



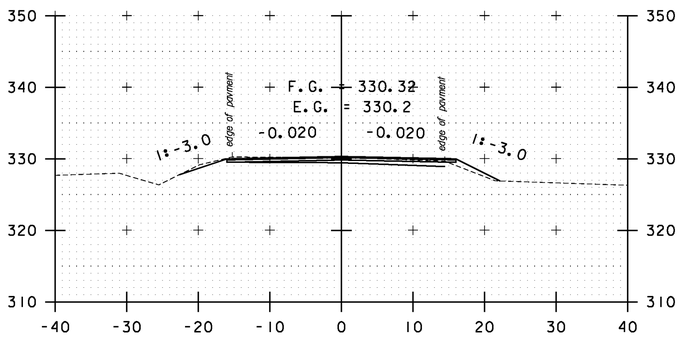
122+00



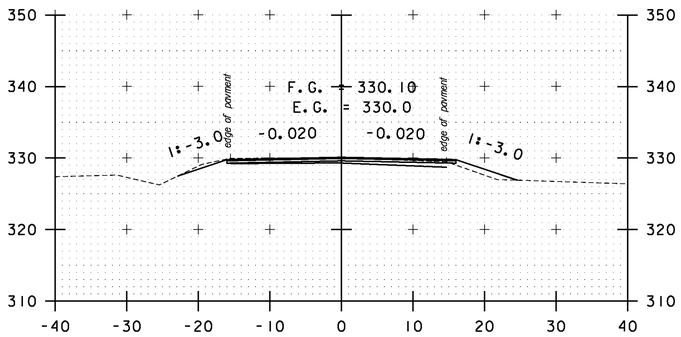
121+50



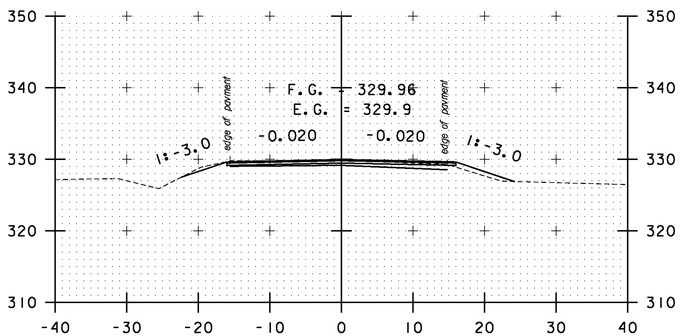
121+00



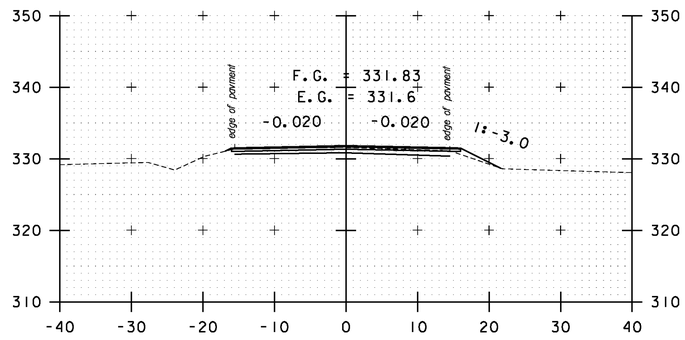
123+50



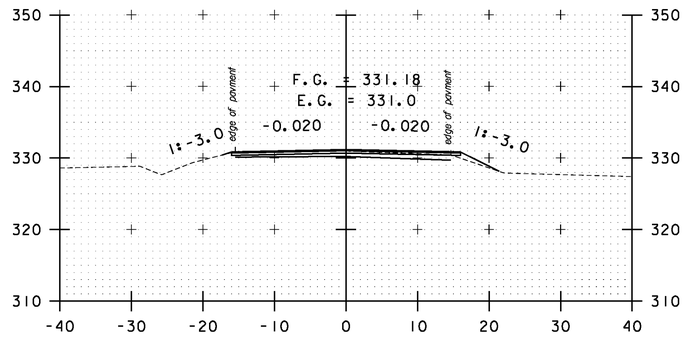
123+00



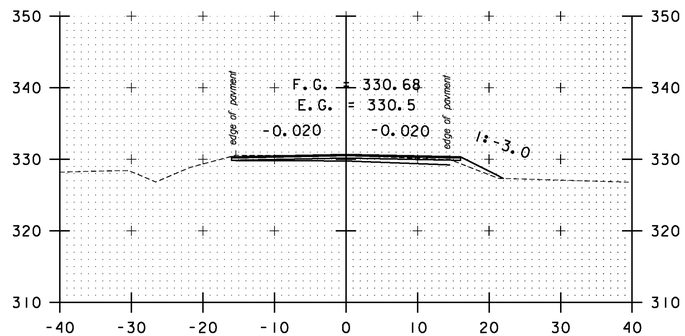
122+50



125+00



124+50



124+00

STA. 121+00 TO STA. 125+00

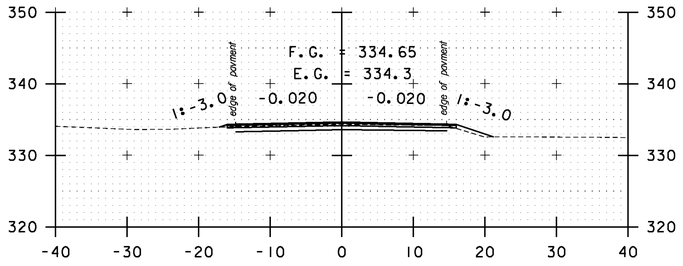
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 6

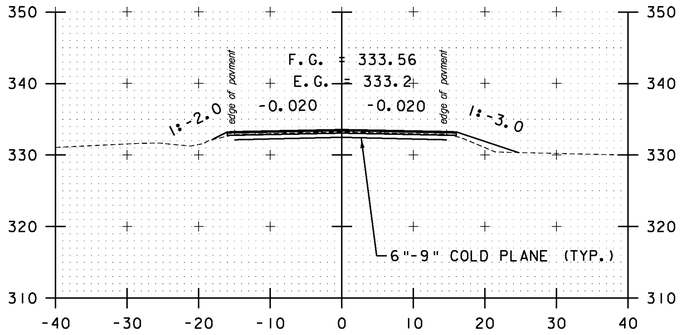
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_132.1

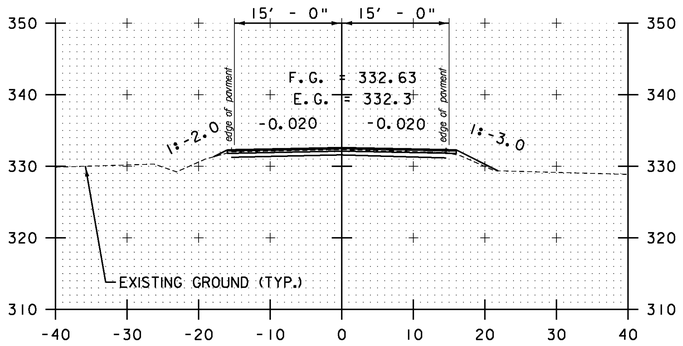
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 132 OF 217



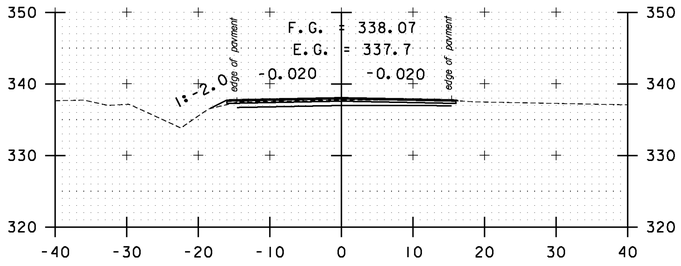
126+50



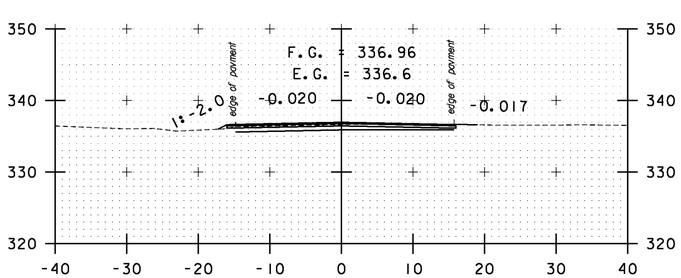
126+00



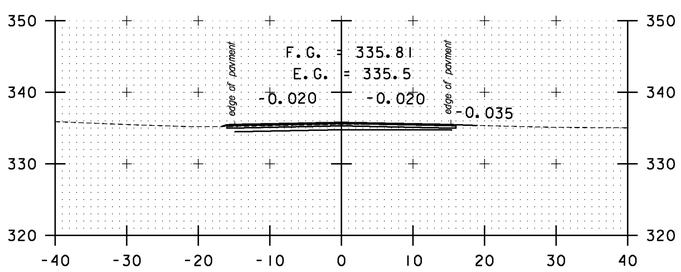
125+50



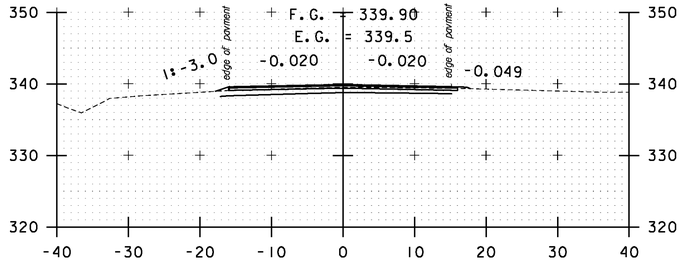
128+00



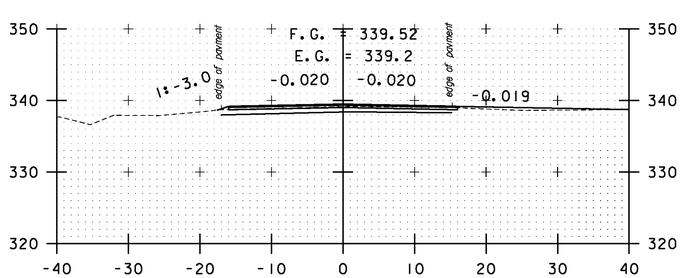
DRIVE RT
127+50



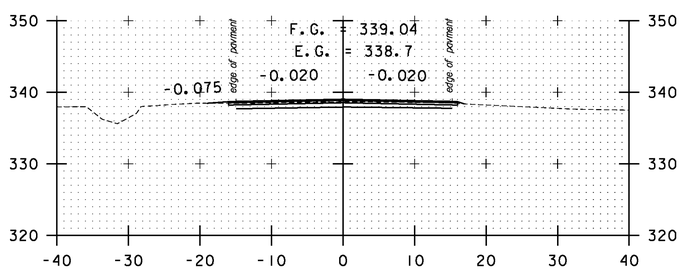
DRIVE RT
127+00



DRIVE LT / TH#11 RT
129+00



TH#11 RT
128+78



DRIVE LT
128+50

STA. 125+50 TO STA. 129+00

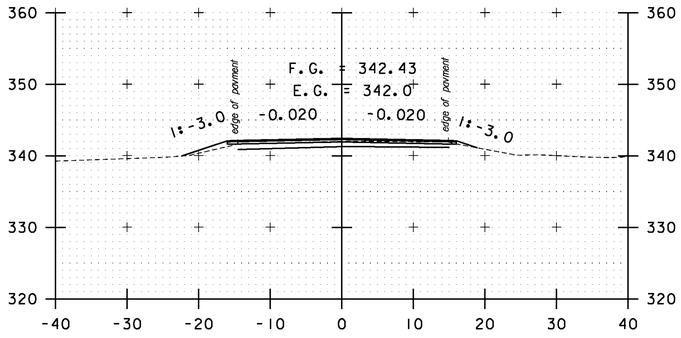
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 7

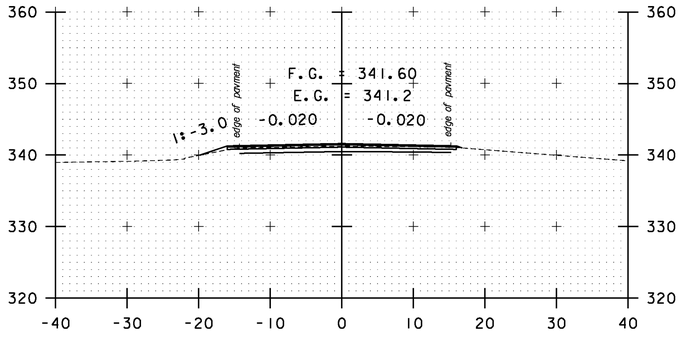
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_133.1

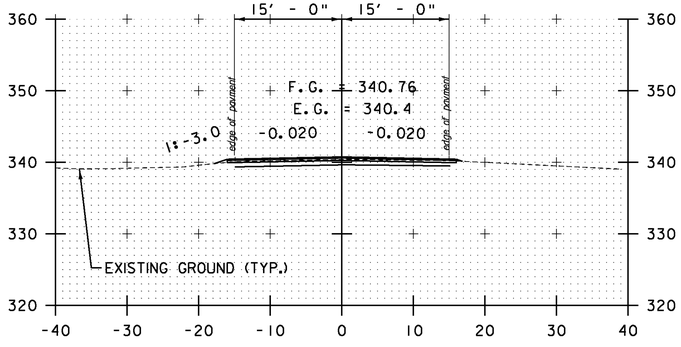
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 133 OF 217



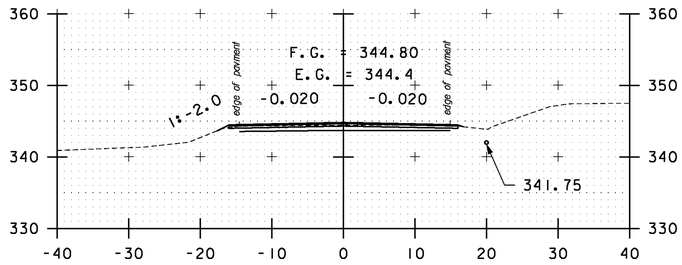
130+50



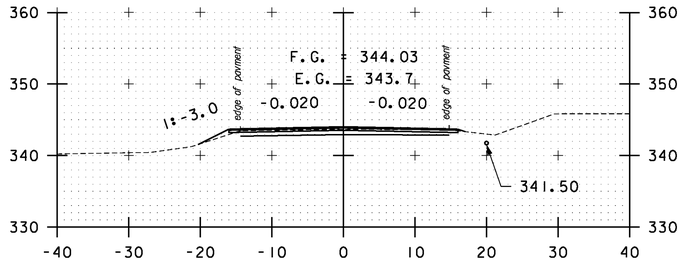
130+00



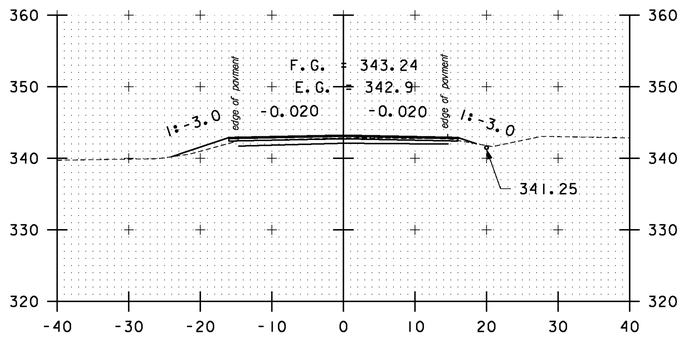
129+50



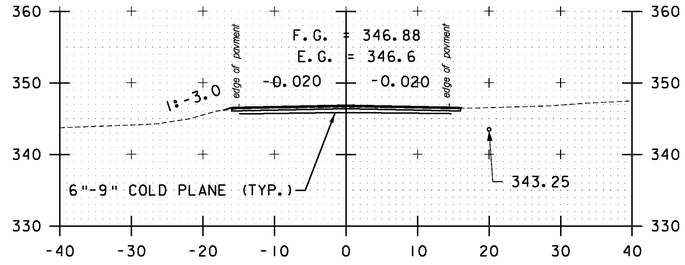
132+00



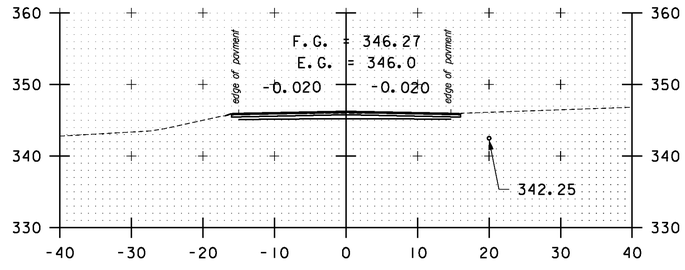
131+50



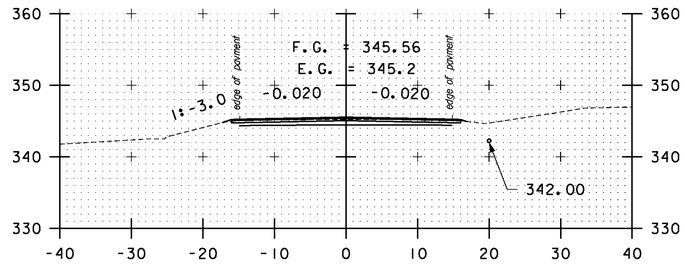
131+00



133+50



133+00



132+50

STA. 129+50 TO STA. 133+50

SCALE 1" = 10'-0

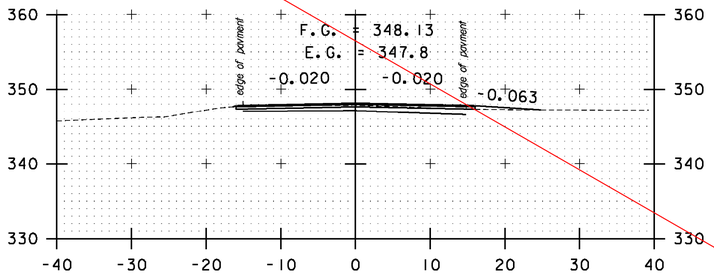
10 0 10

CROSS SECTION SHEET 8

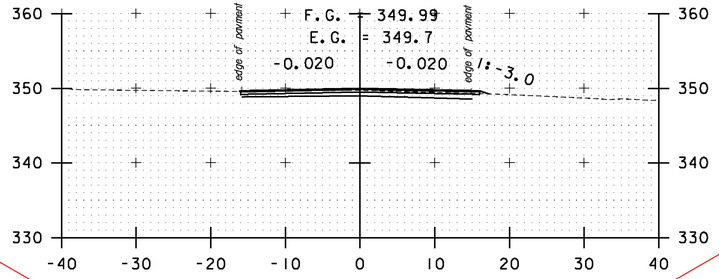
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_134.1

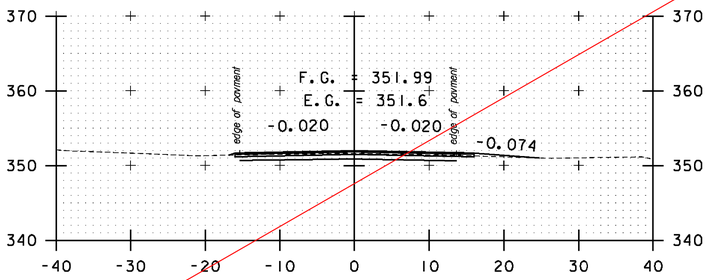
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 134 OF 217



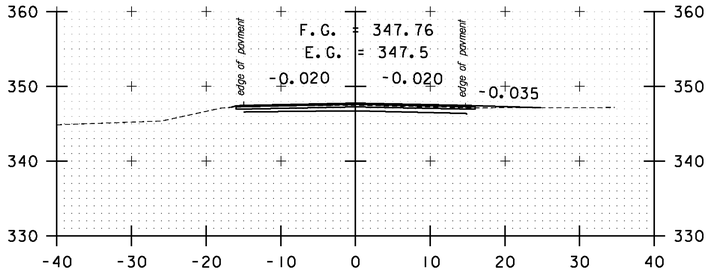
DRIVE RT
135+00



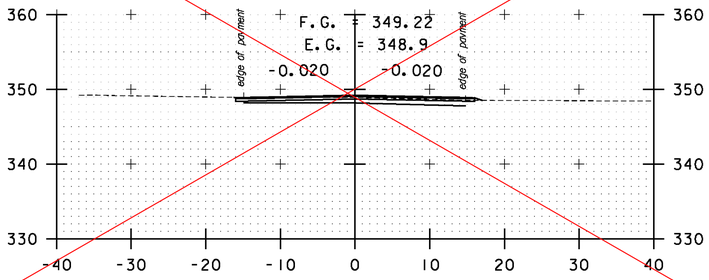
136+50



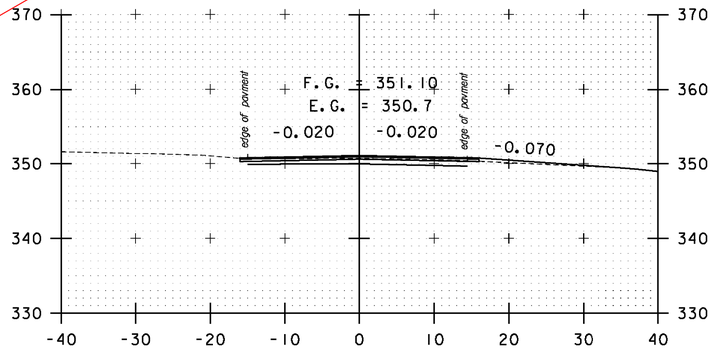
DRIVE RT
137+50



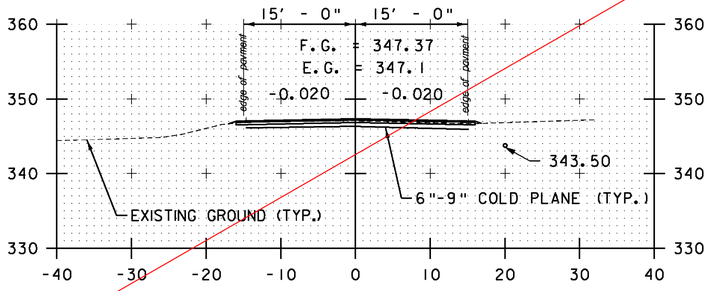
DRIVE RT
134+50



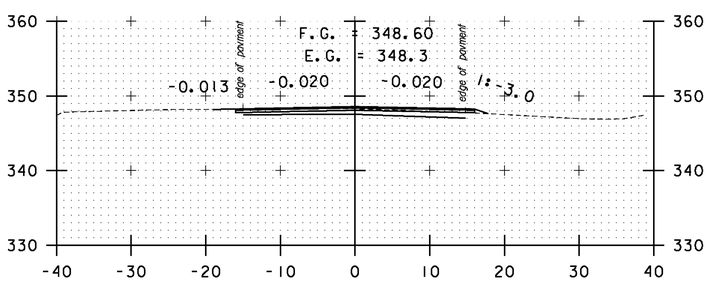
136+00



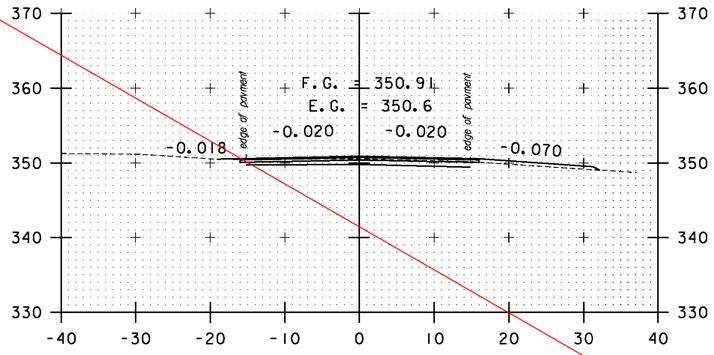
DRIVE LT / TH#18 RT
137+09



134+00



DRIVE LT
135+50



DRIVE LT / TH#18 RT
137+00

SEE SHEETS 135R - 1138R
FOR REVISED CROSS SECTIONS

STA. 134+00 TO STA. 137+50

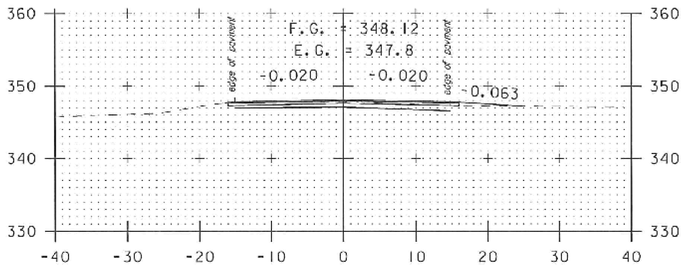
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 9

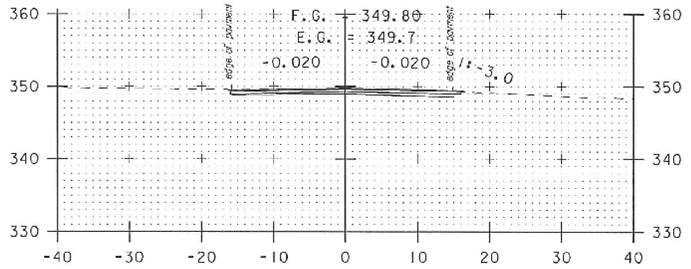
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_135.1

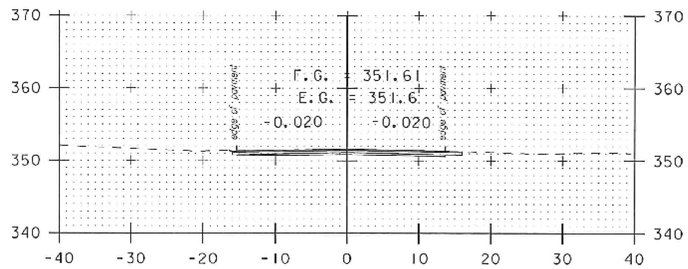
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 135 OF 217



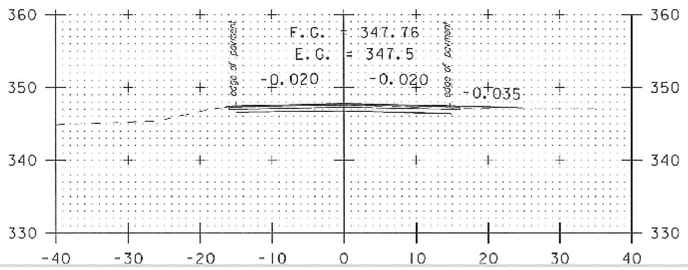
DRIVE RT
135+00



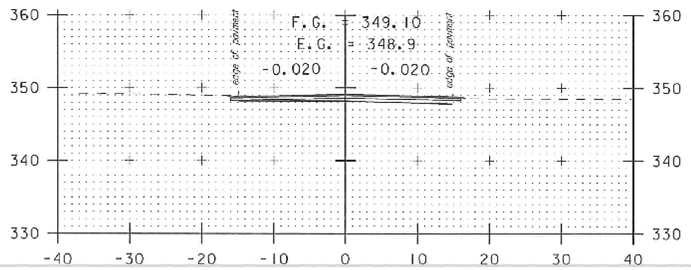
136+50



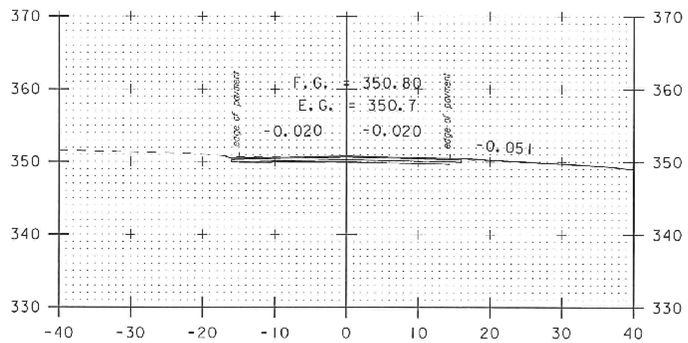
DRIVE RT
137+50



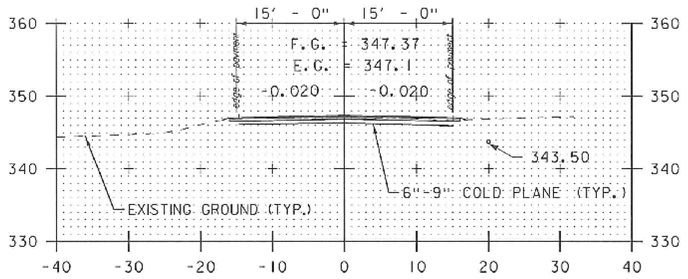
DRIVE RT
134+50



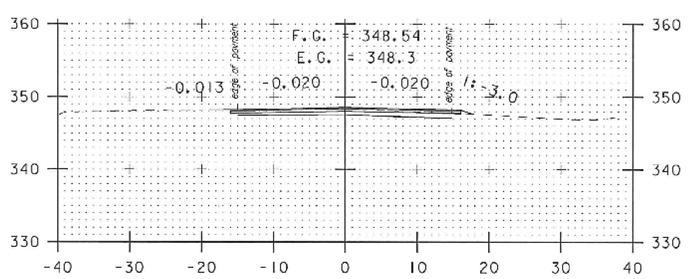
136+00



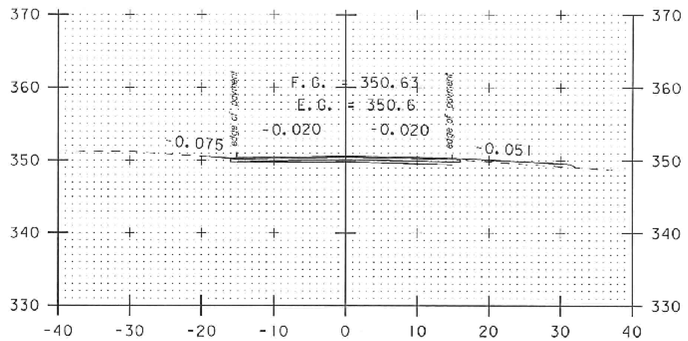
DRIVE LT / TH#18 RT
137+09



134+00



DRIVE LT
135+50



DRIVE LT / TH#18 RT
137+00

STA. 134+00 TO STA. 137+50

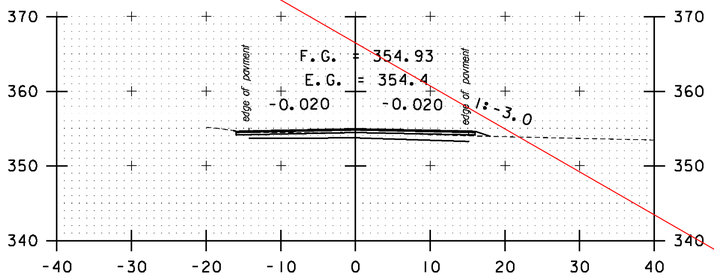
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 9

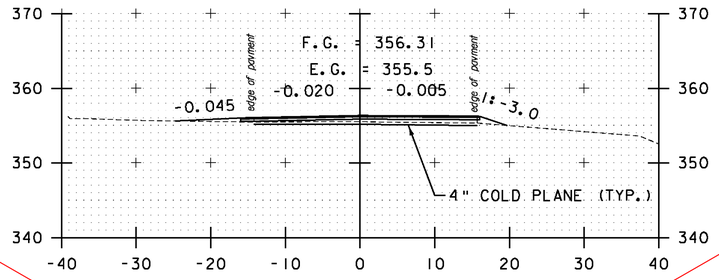
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_135.i

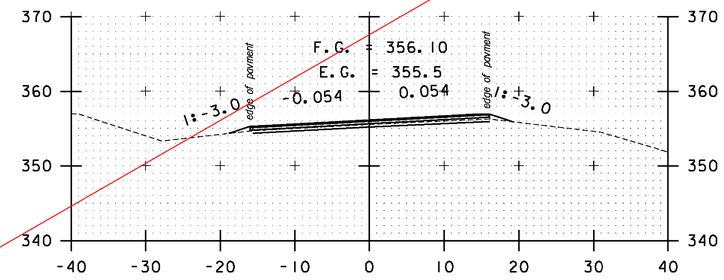
PLOT DATE: 04/17/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 135R OF 217



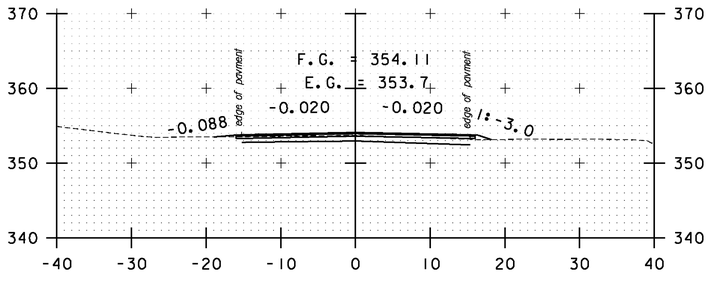
139+00



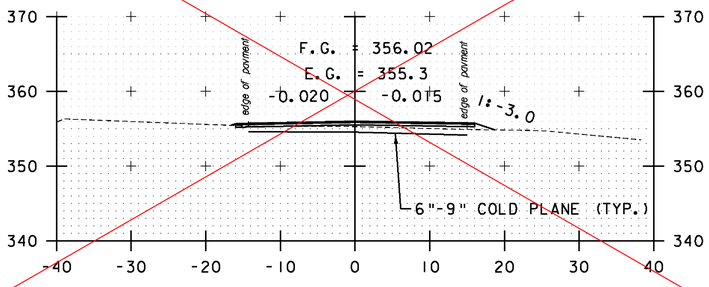
DRIVE LT
140+50



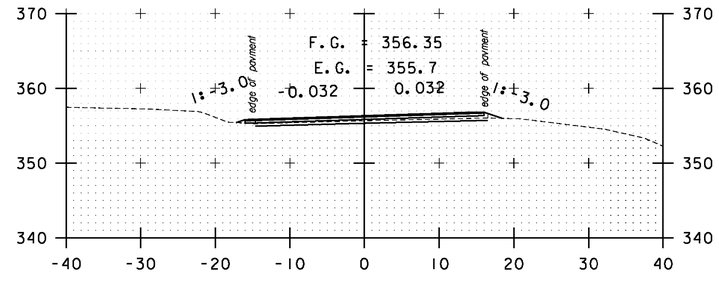
142+00



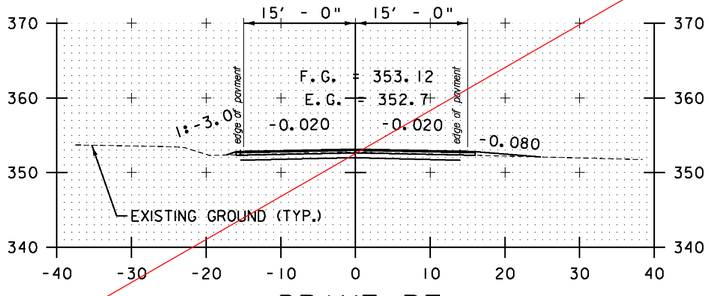
DRIVE LT / DRIVE RT
138+50



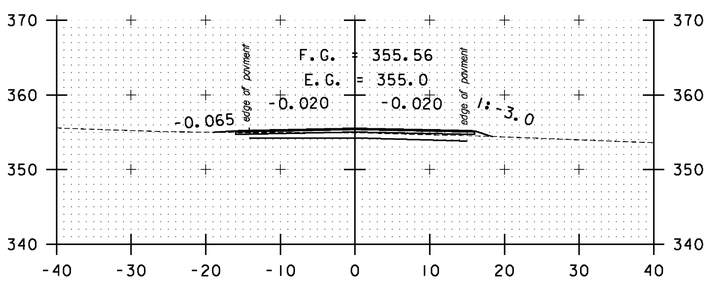
140+00



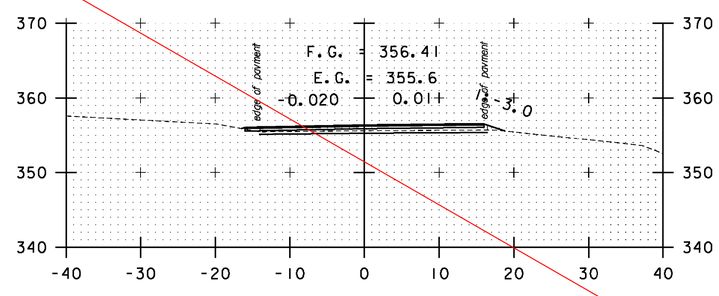
141+50



DRIVE RT
138+00



DRIVE LT
139+50



141+00

SEE SHEETS 135R - 1138R
FOR REVISED CROSS SECTIONS

STA. 138+00 TO STA. 142+00

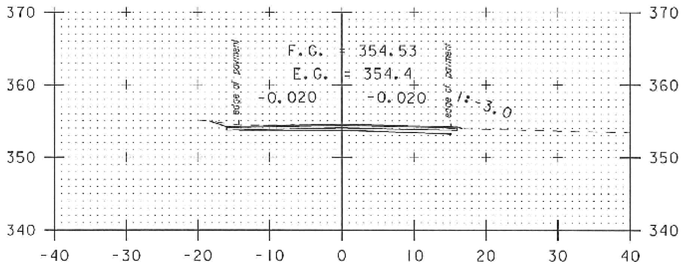
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 10

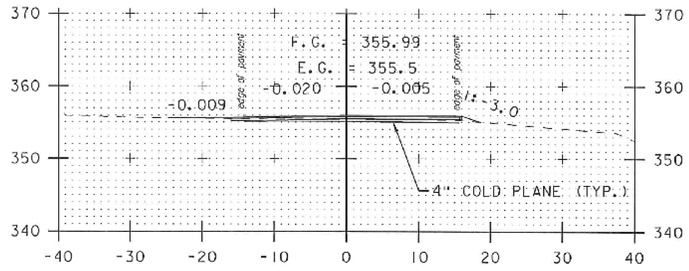
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_136.1

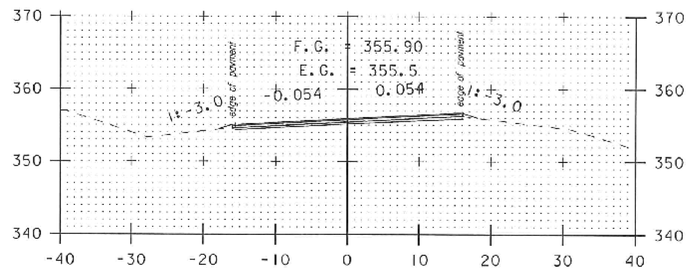
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 136 OF 217



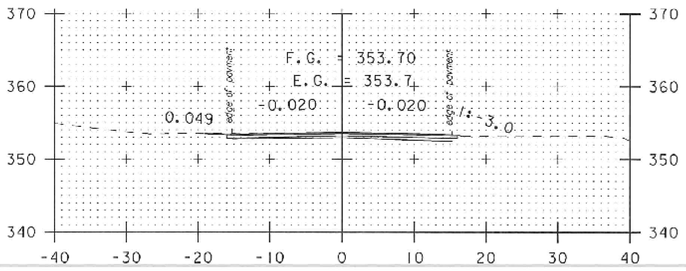
139+00



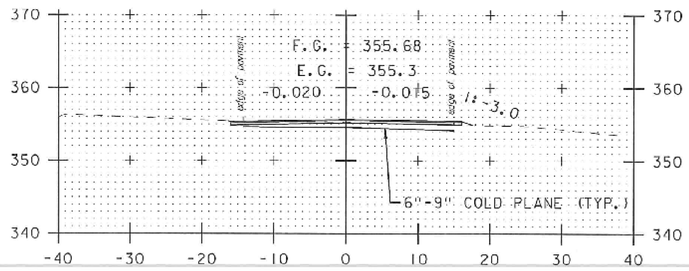
DRIVE LT
140+50



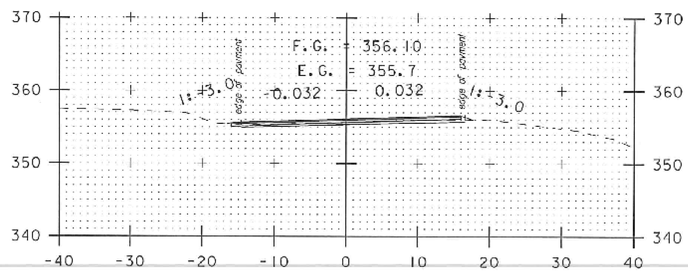
142+00



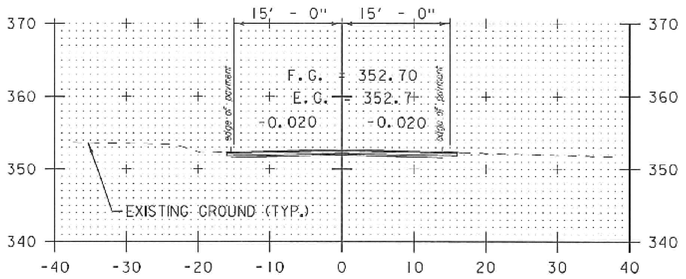
DRIVE LT / DRIVE RT
138+50



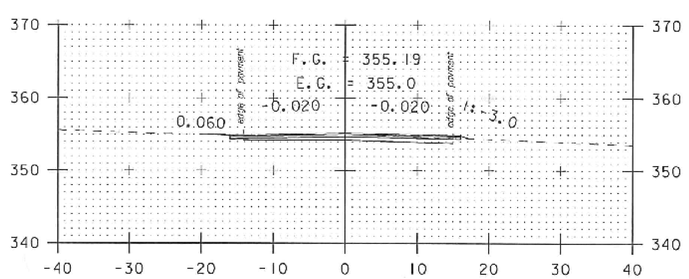
140+00



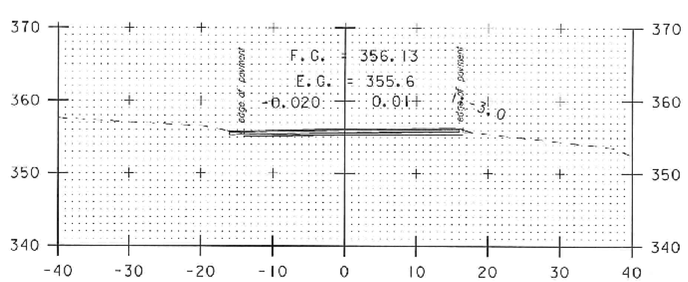
141+50



DRIVE RT
138+00



DRIVE LT
139+50



141+00

STA. 138+00 TO STA. 142+00

SCALE 1" = 10'-0

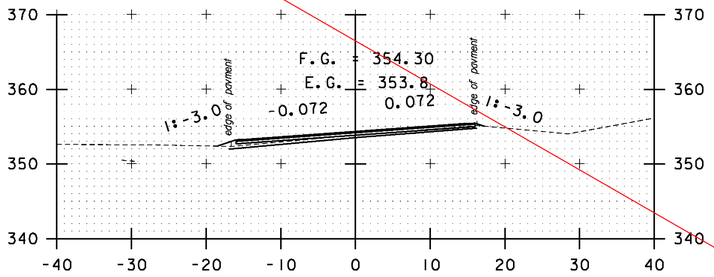
10 0 10

CROSS SECTION SHEET 10

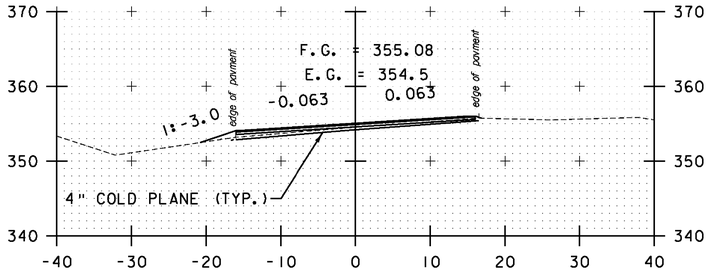
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_136.1

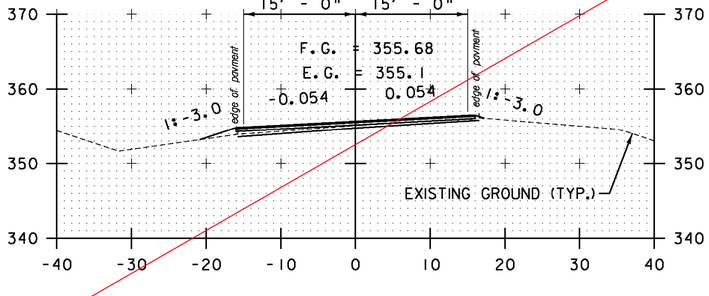
PLOT DATE: 04/17/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 136R OF 217



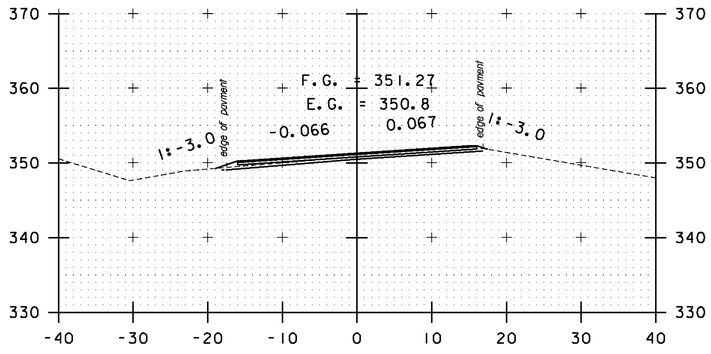
143+50



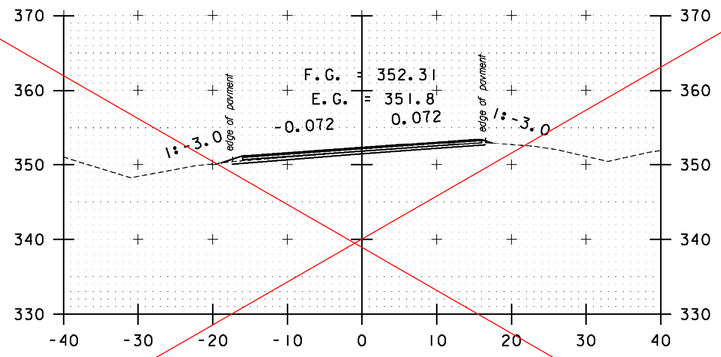
143+00



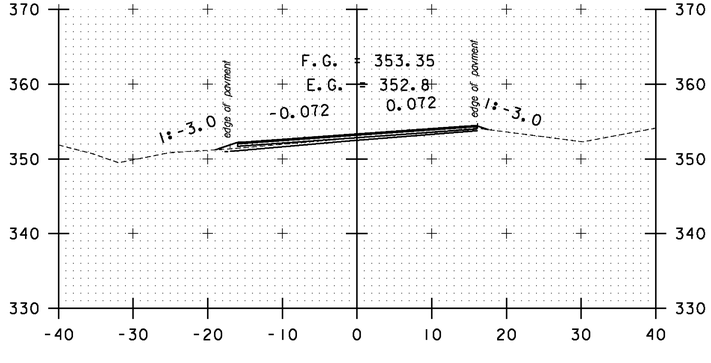
142+50



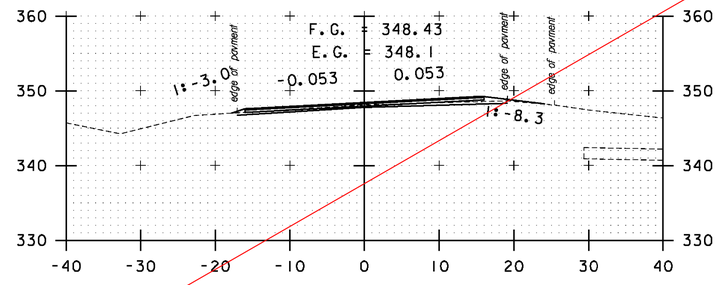
145+00



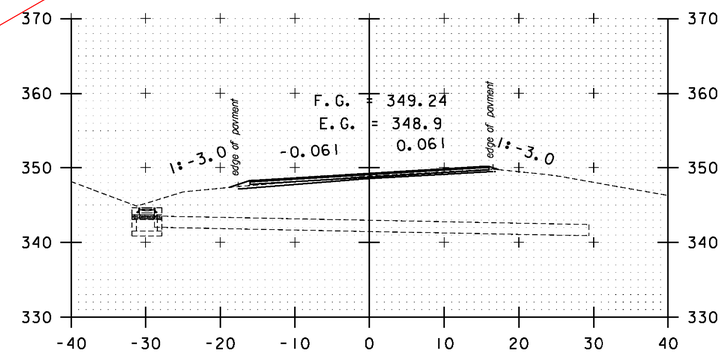
144+50



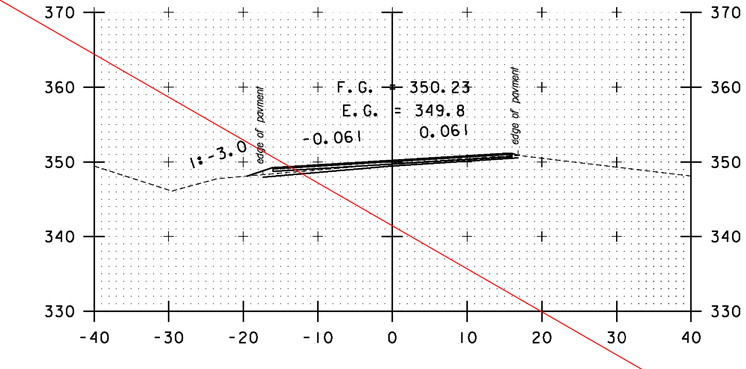
144+00



TH#15 RT
146+50



146+00



145+50

SEE SHEETS 135R - 1138R
FOR REVISED CROSS SECTIONS

STA. 142+50 TO STA. 146+50

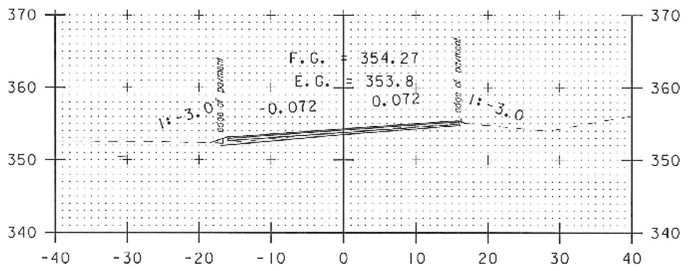
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 11

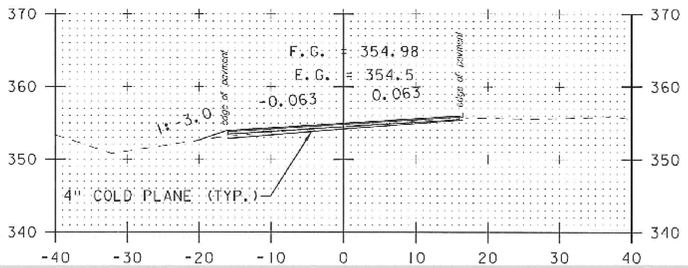
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_137.1

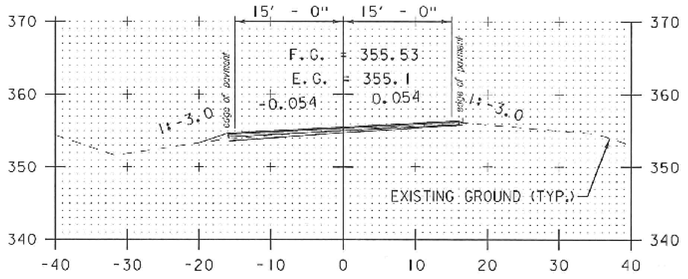
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 137 OF 217



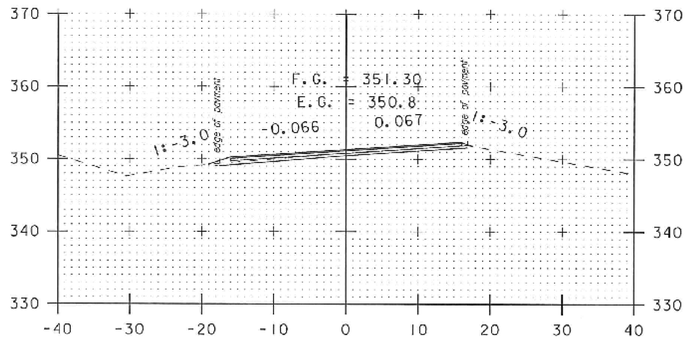
143+50



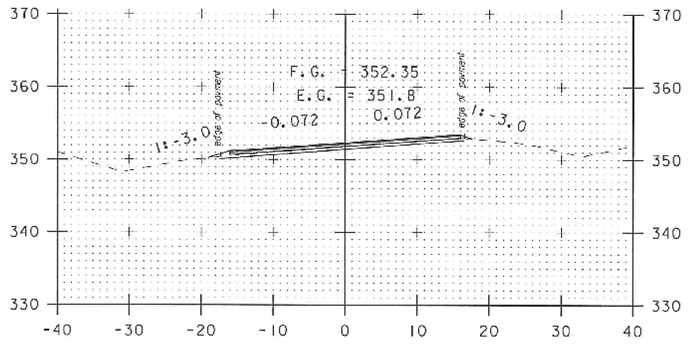
143+00



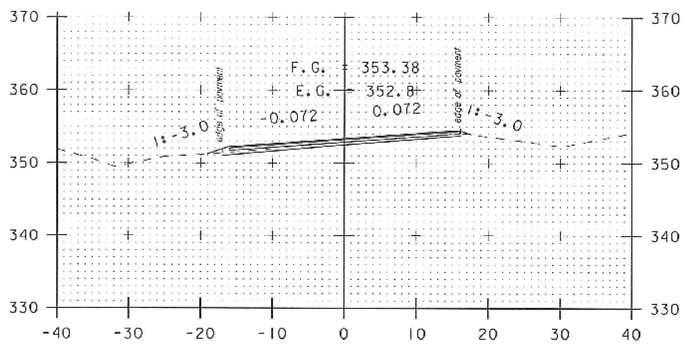
142+50



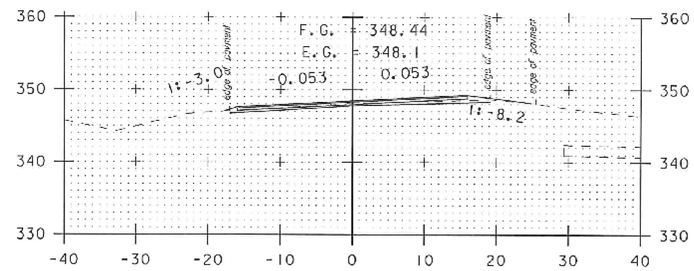
145+00



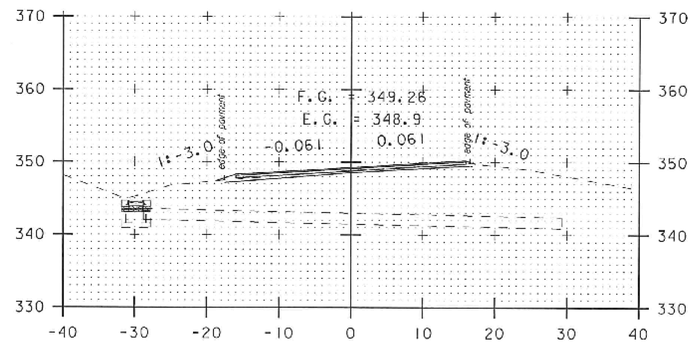
144+50



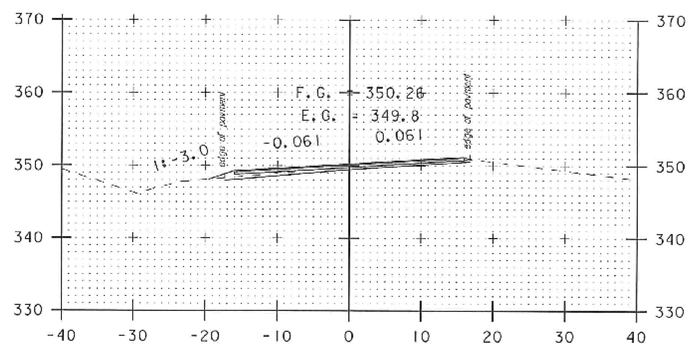
144+00



TH#15 RT
146+50



146+00



145+50

STA. 142+50 TO STA. 146+50

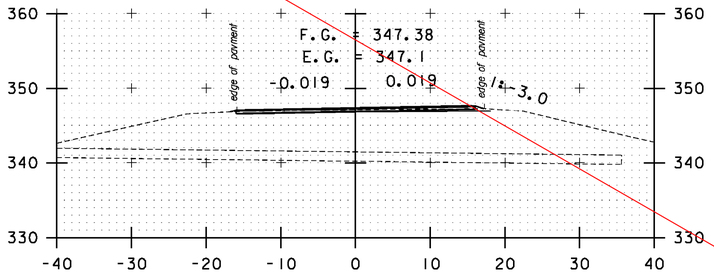
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 11

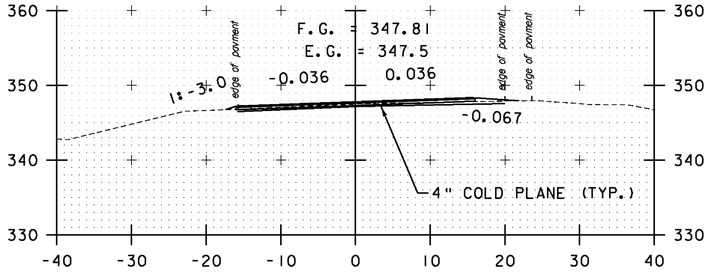
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: x07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07C172_137.1

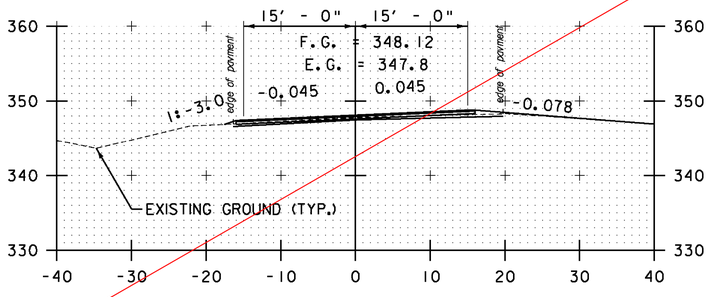
PLOT DATE: 04/17/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 137R OF 217



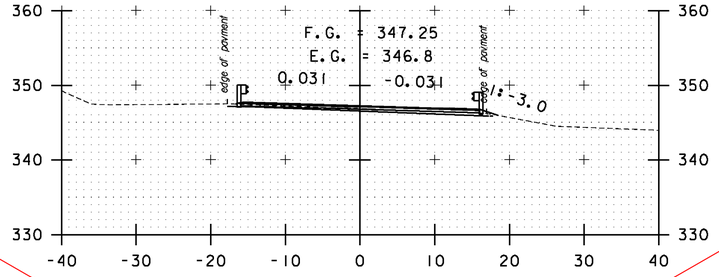
147+50



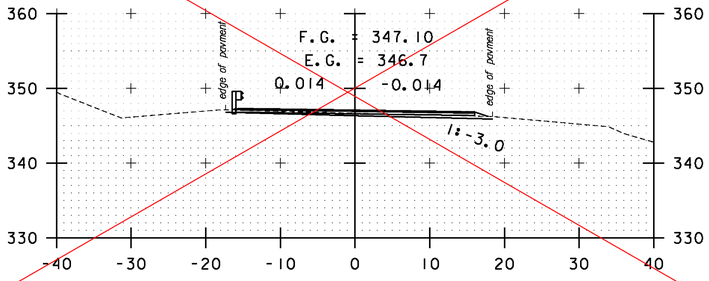
TH#15 RT
147+00



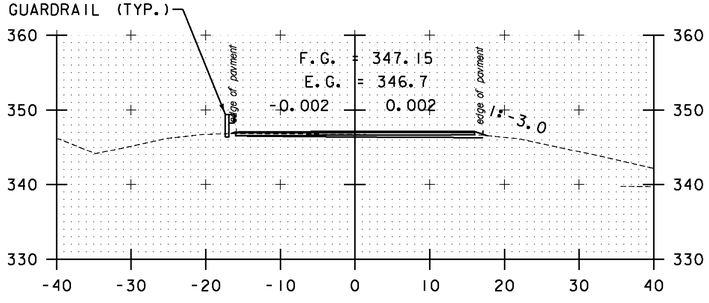
TH#15 RT
146+73



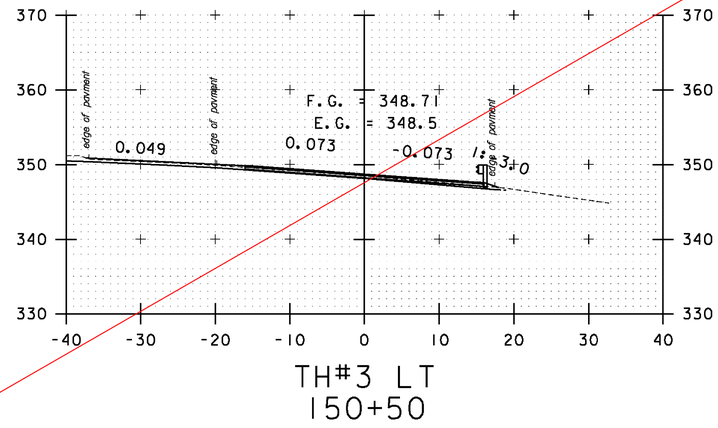
149+00



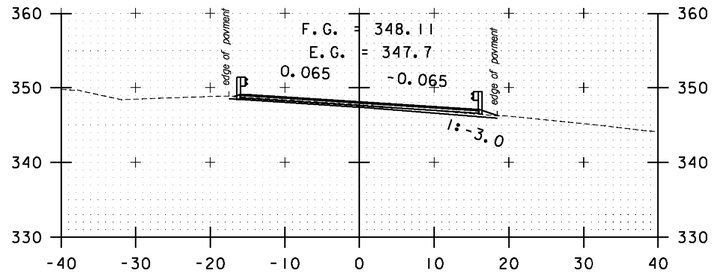
148+50



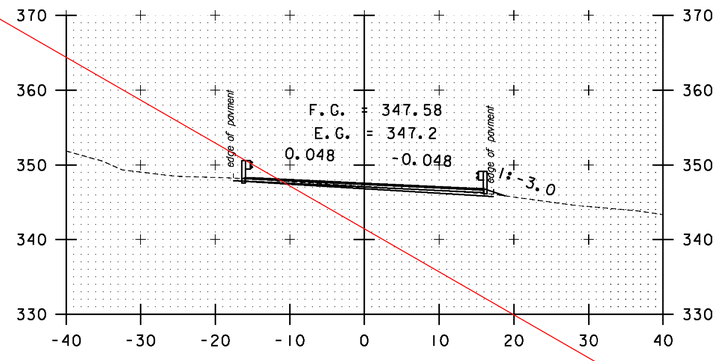
148+00



TH#3 LT
150+50



150+00



149+50

SEE SHEETS 135R - 138R
FOR REVISED CROSS SECTIONS

STA. 146+73 TO STA. 150+50

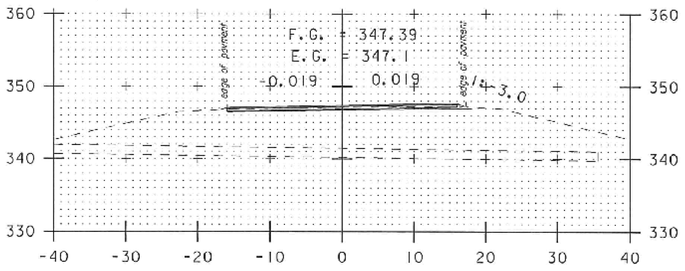
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 12

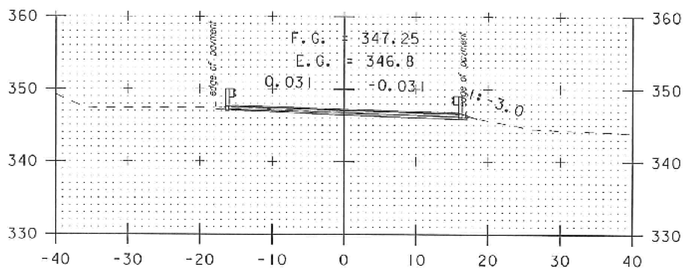
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_138.1

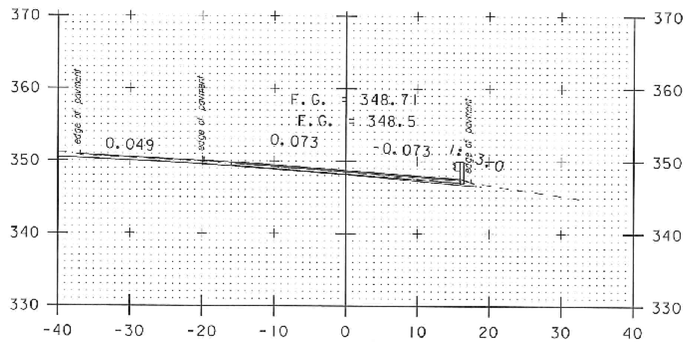
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 138 OF 217



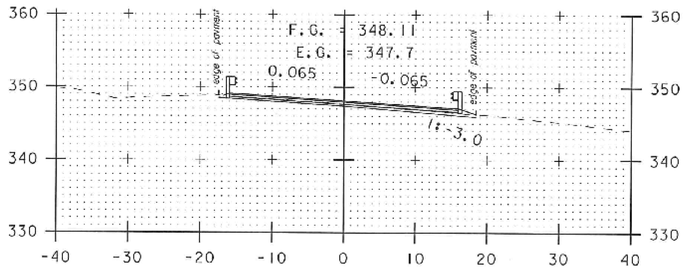
147+50



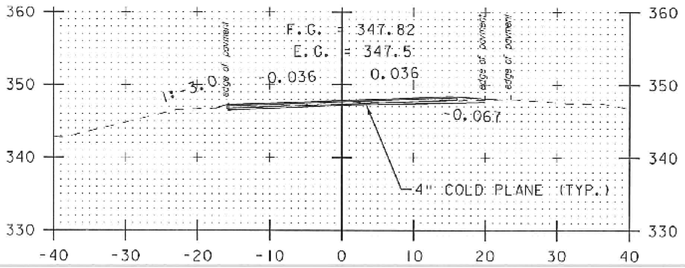
149+00



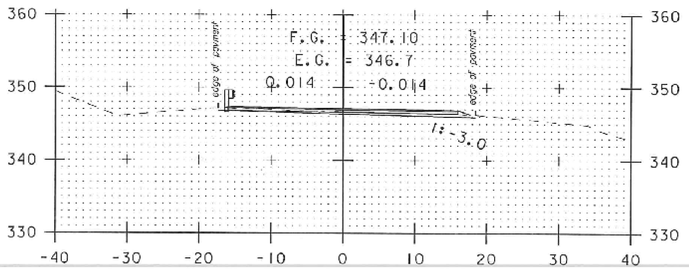
TH#3 LT
150+50



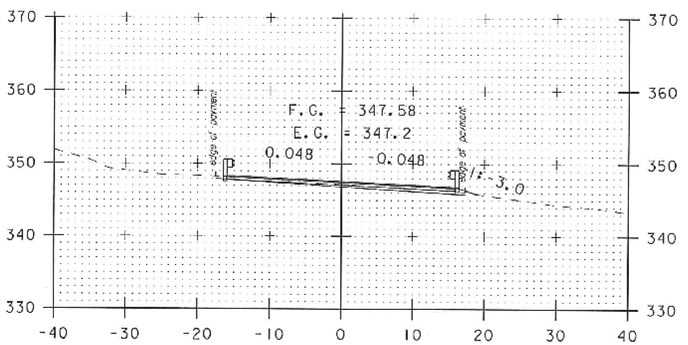
150+00



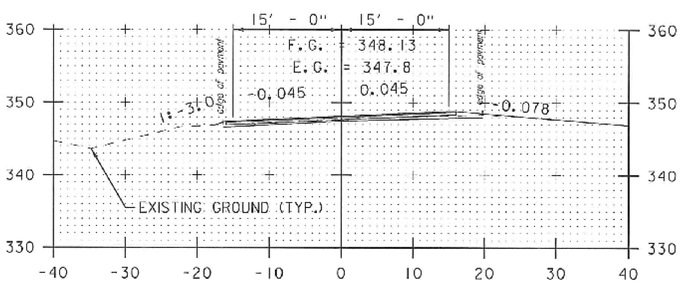
TH#15 RT
147+00



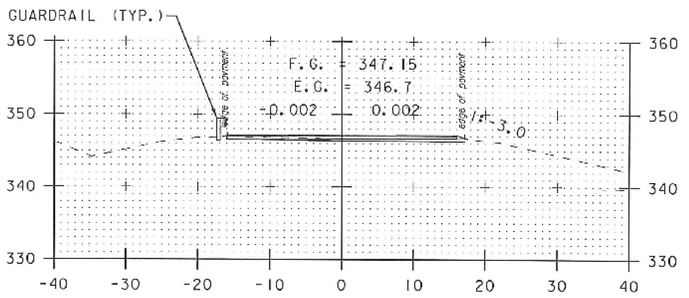
148+50



149+50



TH#15 RT
146+73



148+00

STA. 146+73 TO STA. 150+50

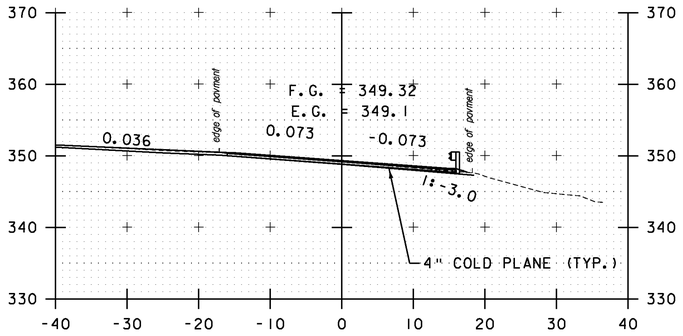
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 12

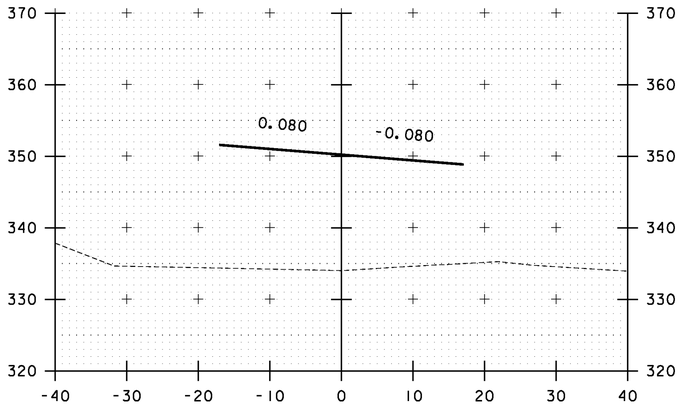
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: x07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: x07CI72_I38.i

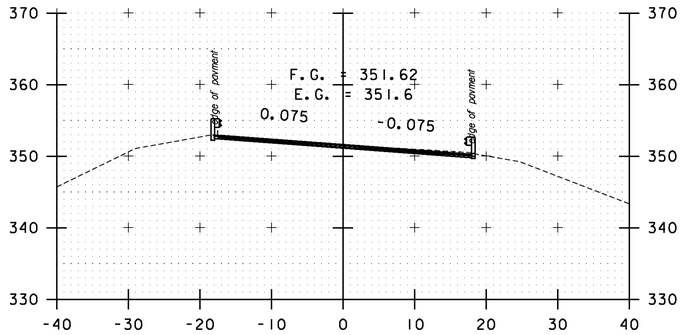
PLOT DATE: 04/17/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET I38R OF 217



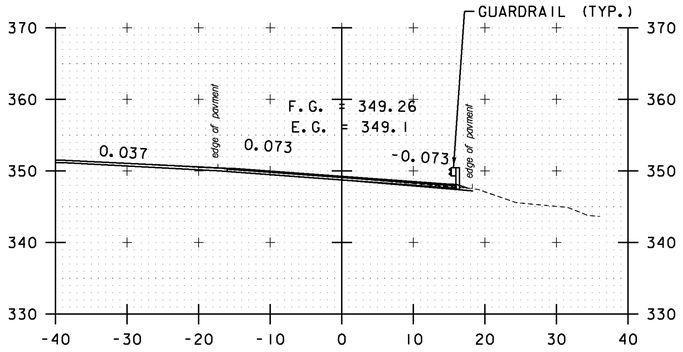
TH#3 LT
151+00



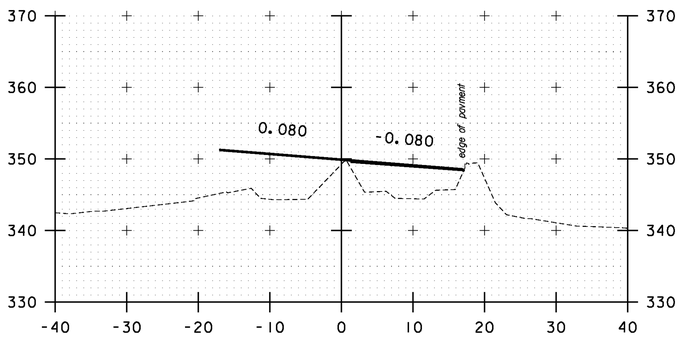
BRIDGE #37
152+00



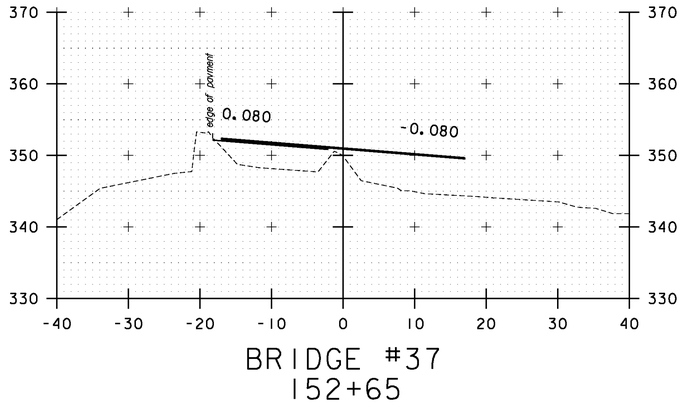
153+00



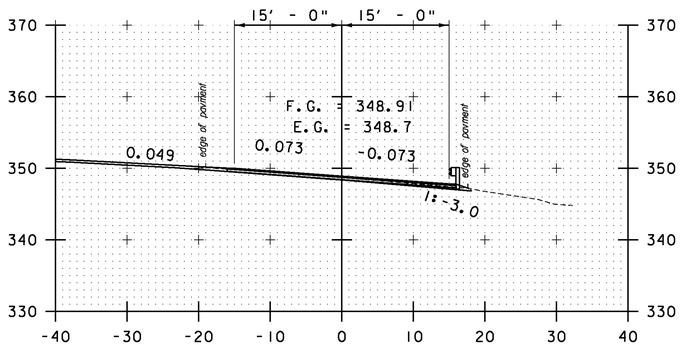
TH#3 LT
150+95



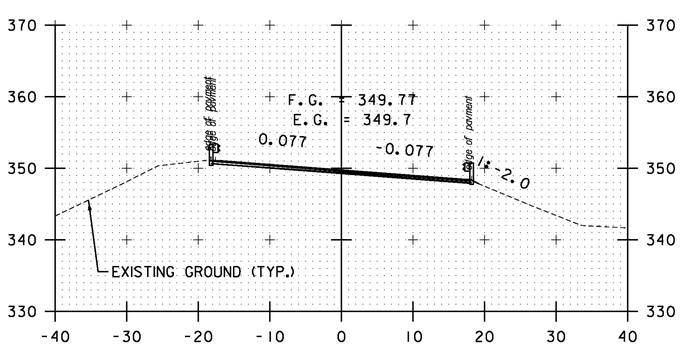
BRIDGE #37
151+75



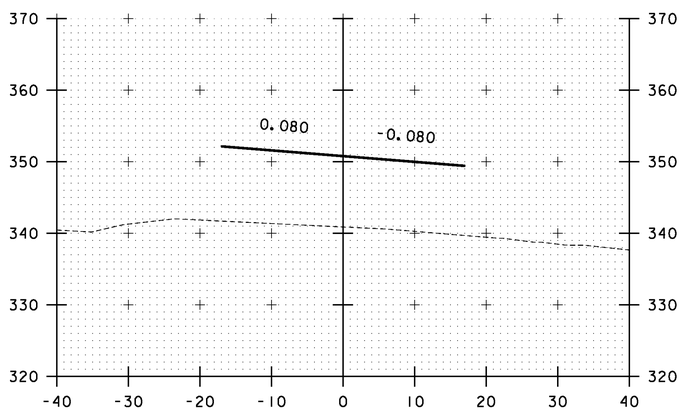
BRIDGE #37
152+65



TH#3 LT
150+66



151+50



BRIDGE #37
152+50

STA. 150+66 TO STA. 153+00

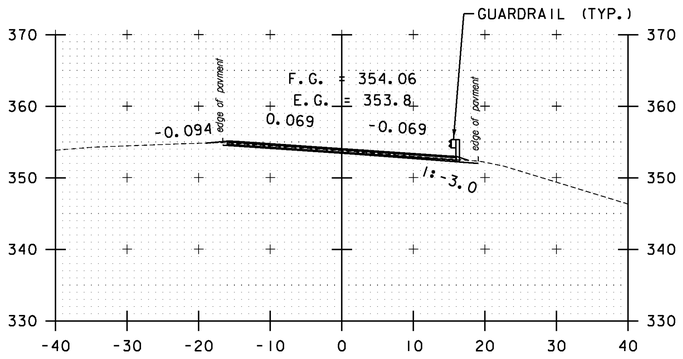
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 13

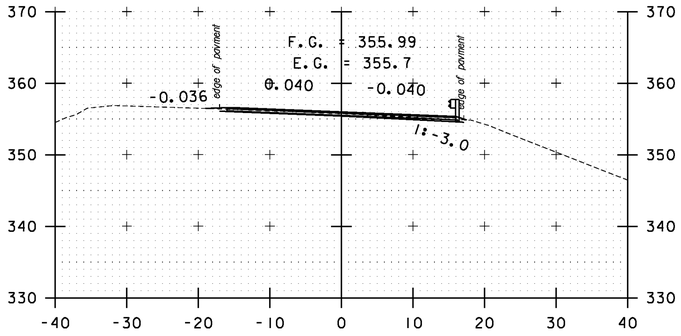
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_139.1

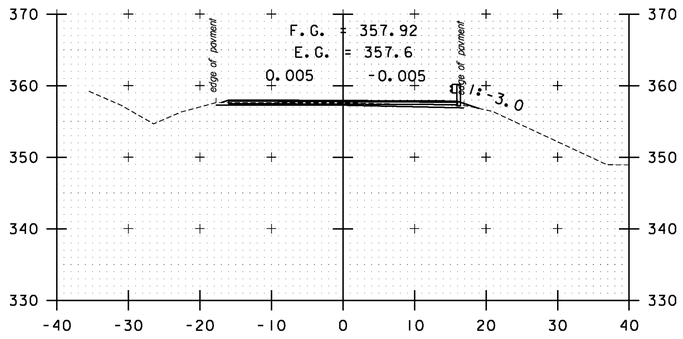
PLOT DATE: 4/17/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 139 OF 217



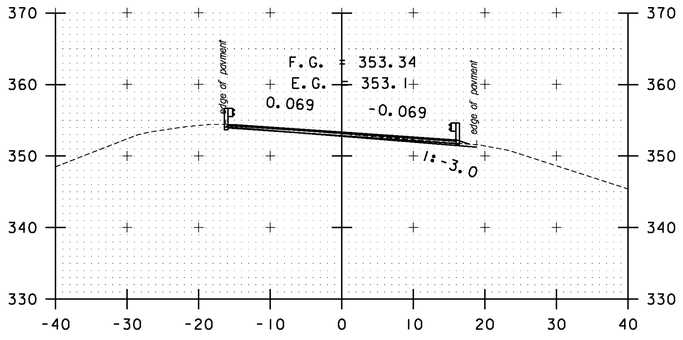
DRIVE LT
154+50



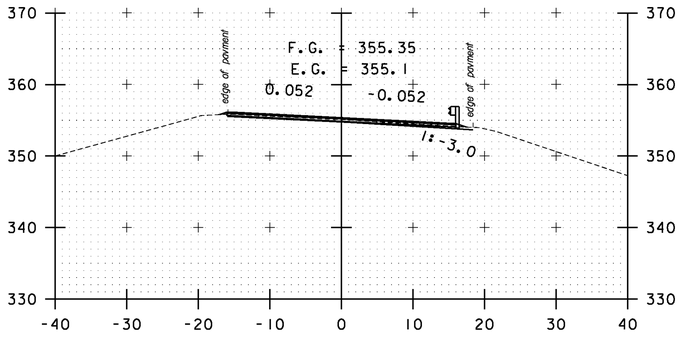
DRIVE LT
156+00



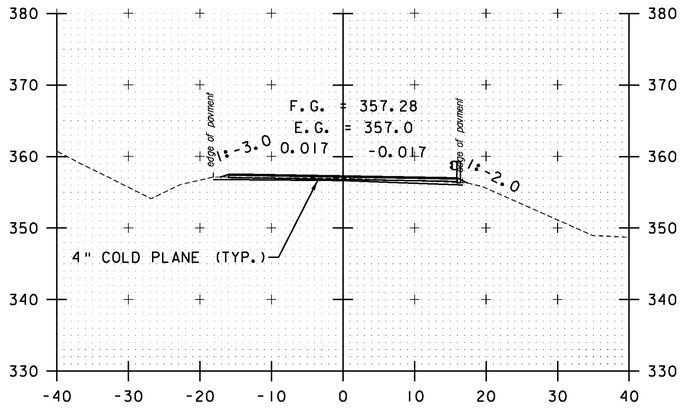
157+50



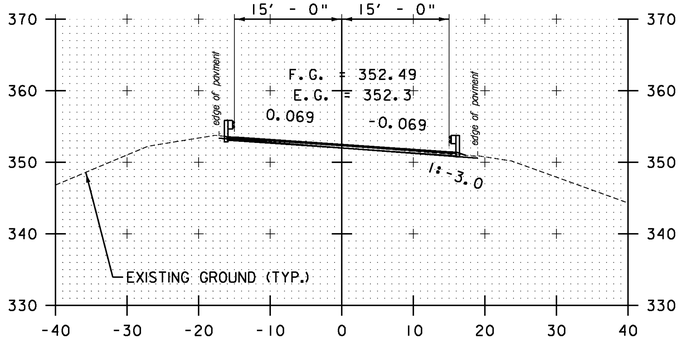
154+00



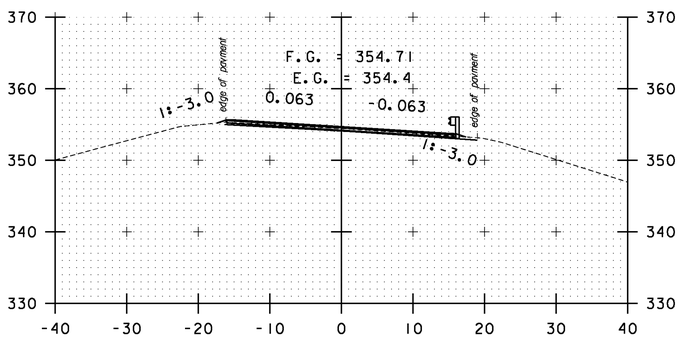
155+50



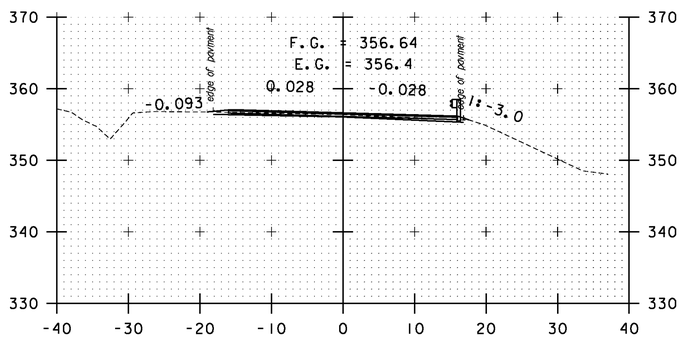
157+00



153+50



155+00



DRIVE LT
156+50

STA. 153+50 TO STA. 157+50

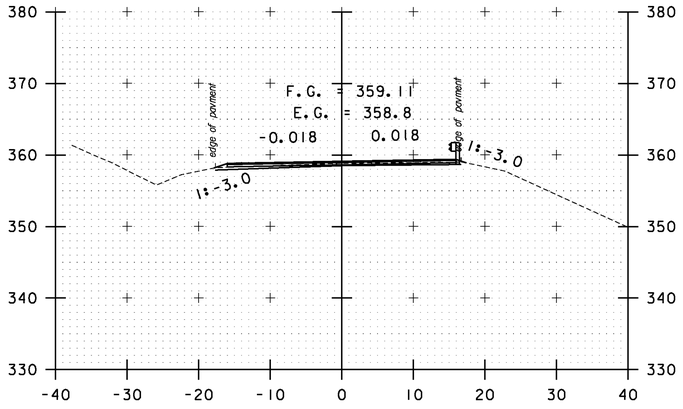
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 14

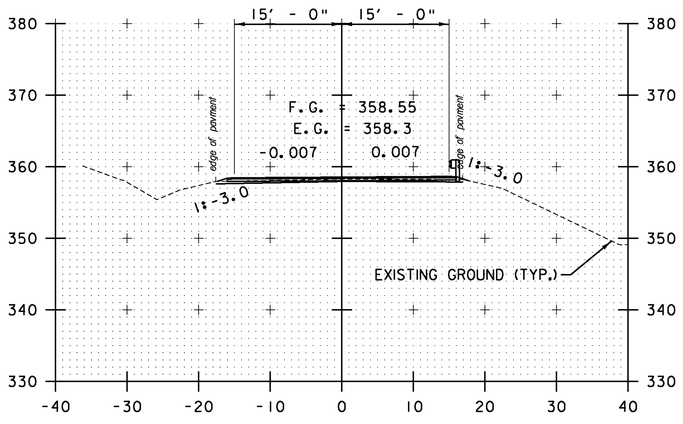
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_140.1

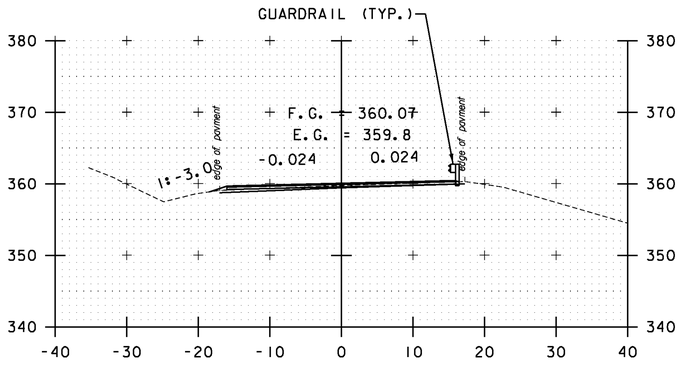
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 140 OF 217



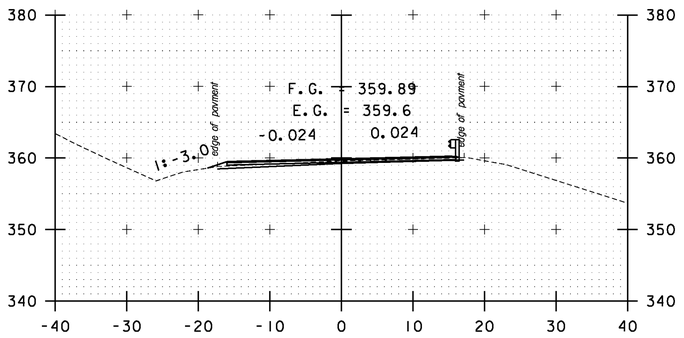
158+50



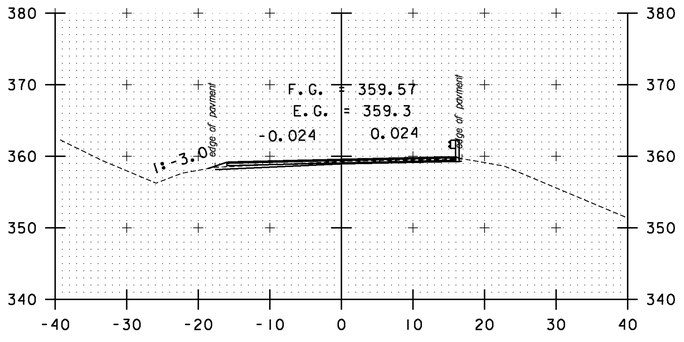
158+00



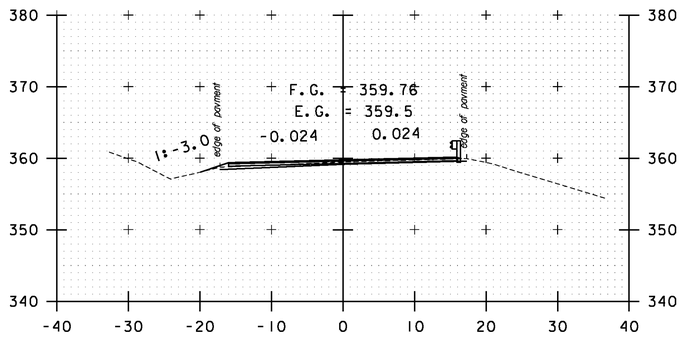
160+00



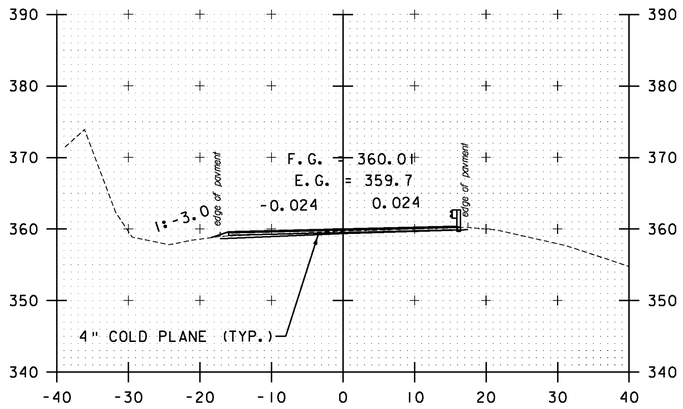
159+50



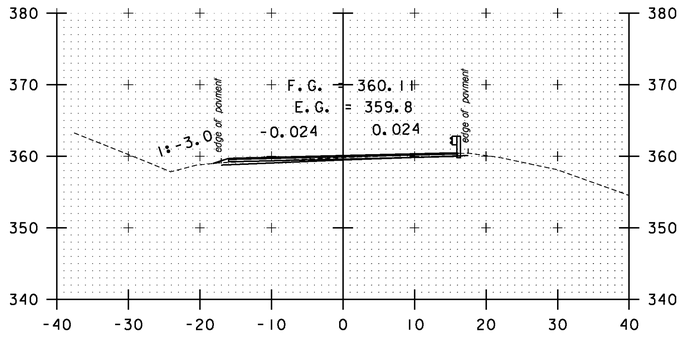
159+00



161+50



161+00



160+50

STA. 158+00 TO STA. 161+50

SCALE 1" = 10'-0

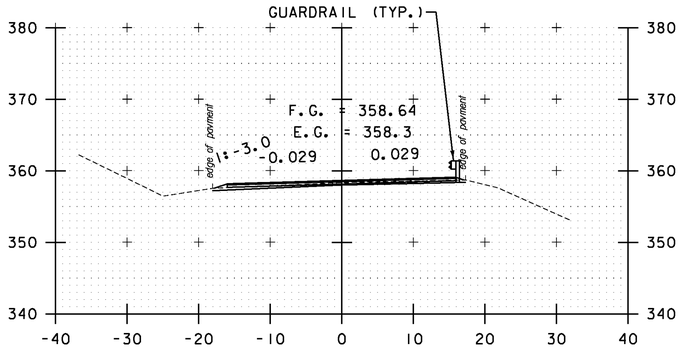
10 0 10

CROSS SECTION SHEET 15

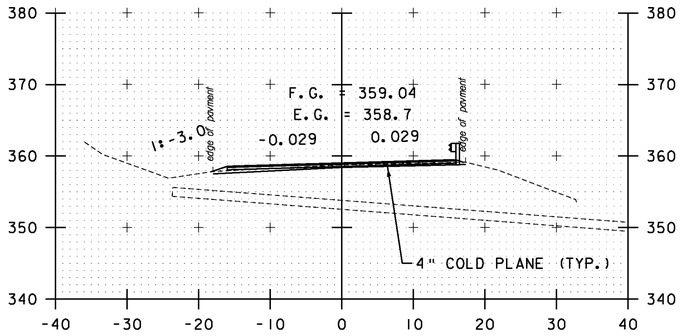
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_141.i

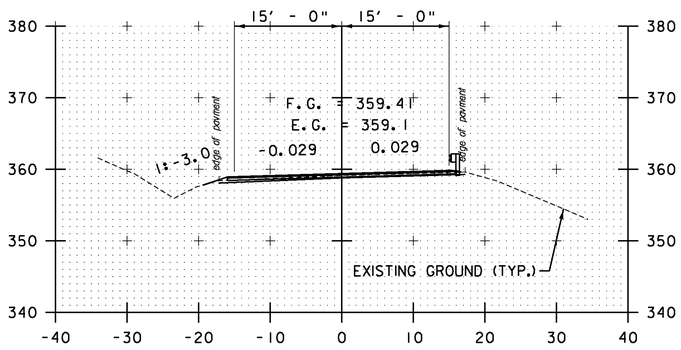
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 141 OF 217



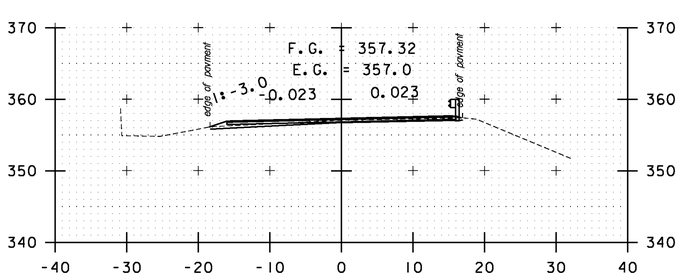
163+00



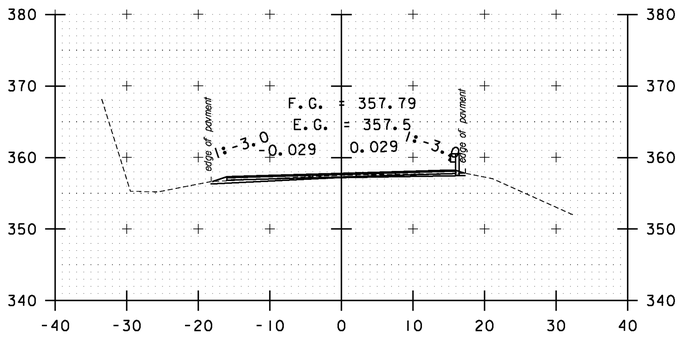
162+50



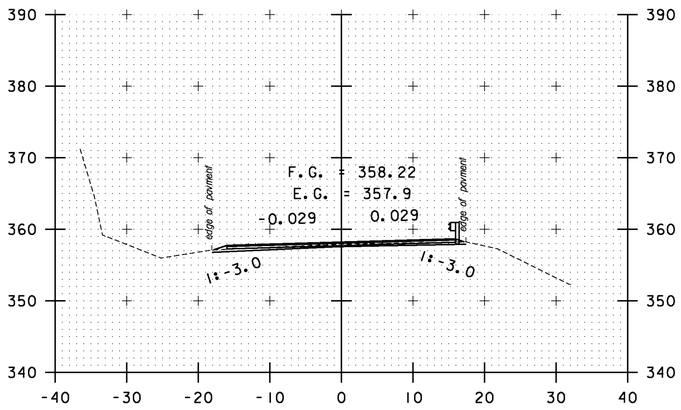
162+00



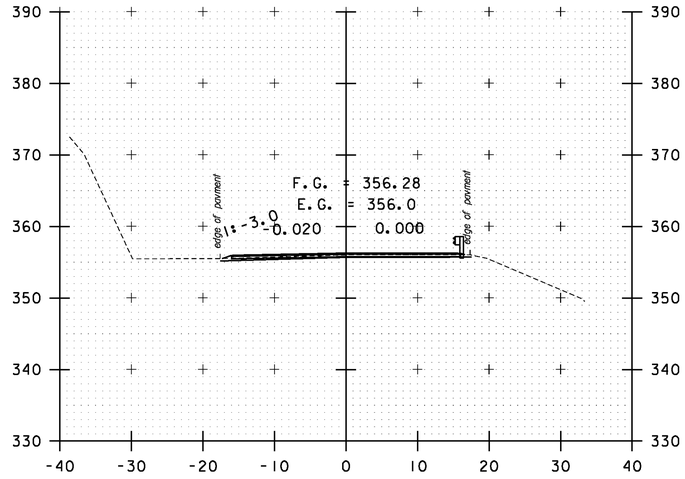
164+50



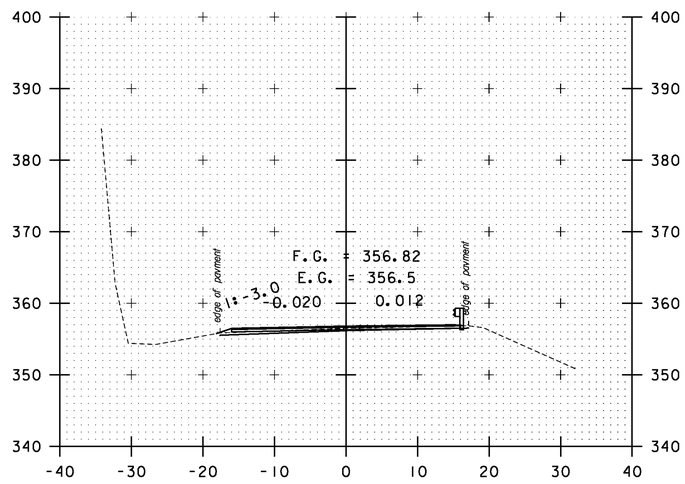
164+00



163+50



165+50



165+00

STA. 162+00 TO STA. 165+50

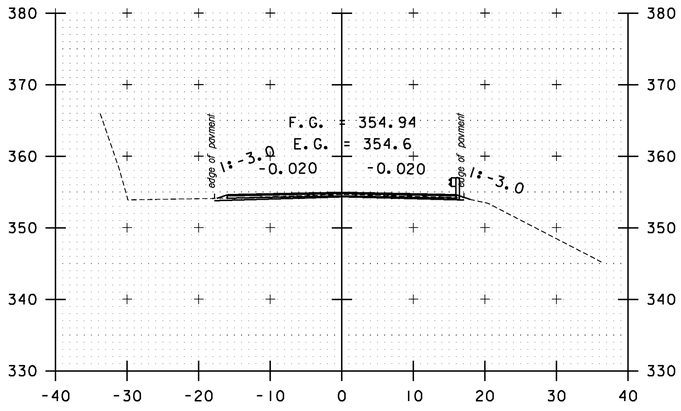
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 16

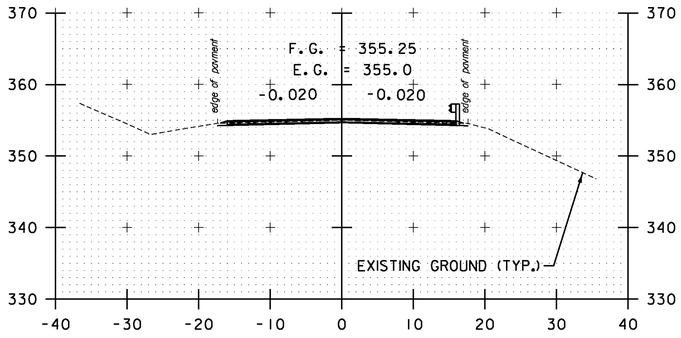
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_142.1

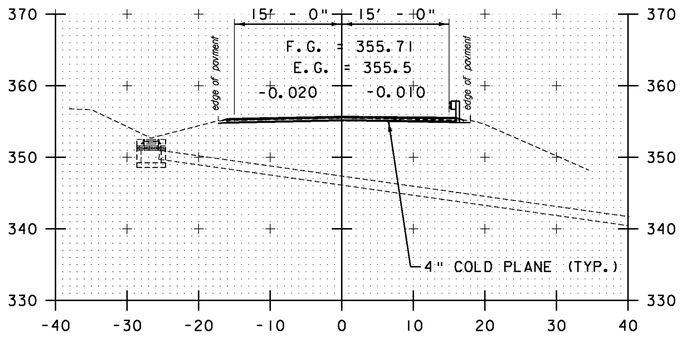
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 142 OF 217



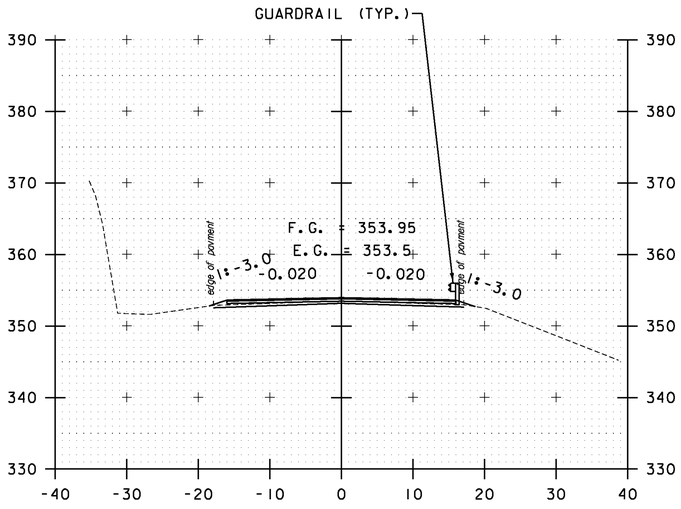
167+00



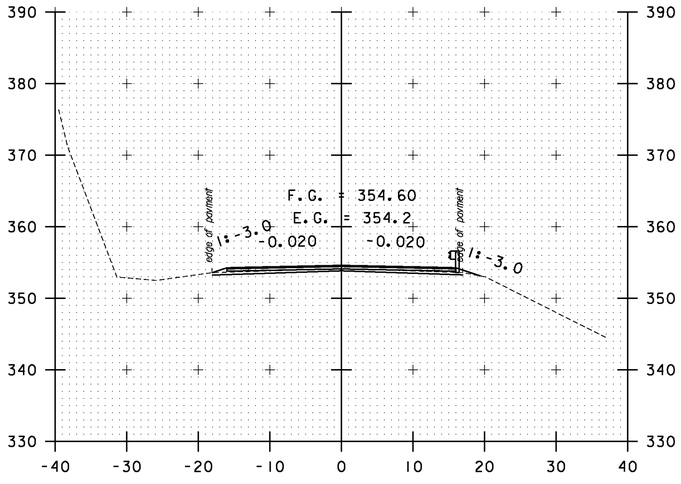
166+50



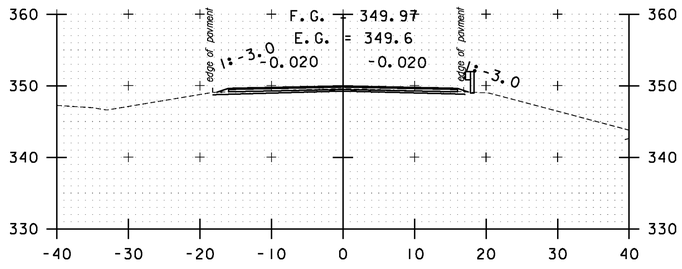
166+00



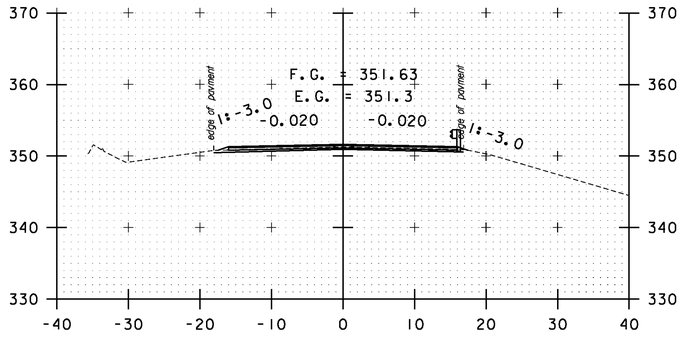
168+00



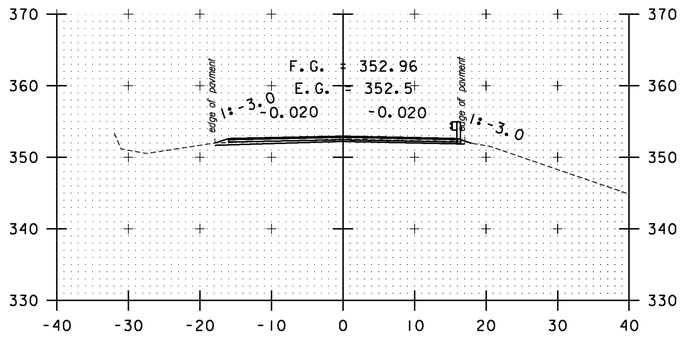
167+50



169+50



169+00



168+50

STA. 166+00 TO STA. 169+50

SCALE 1" = 10'-0

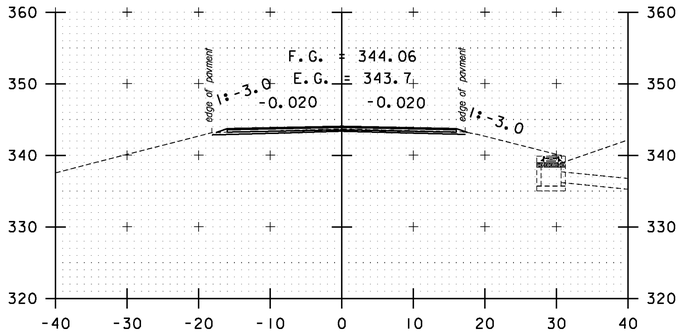
10 0 10

CROSS SECTION SHEET 17

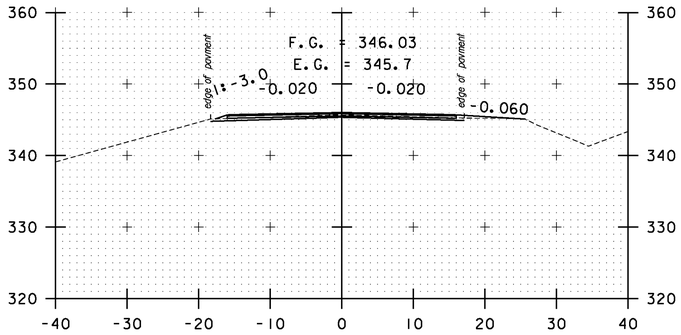
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_143.1

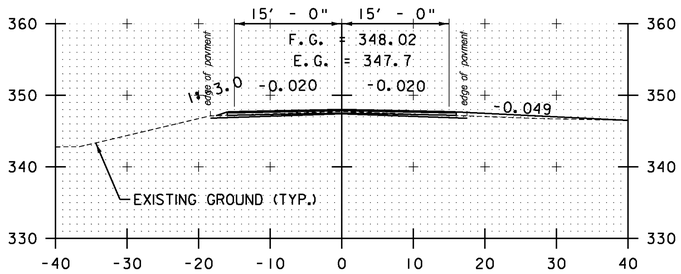
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 143 OF 217



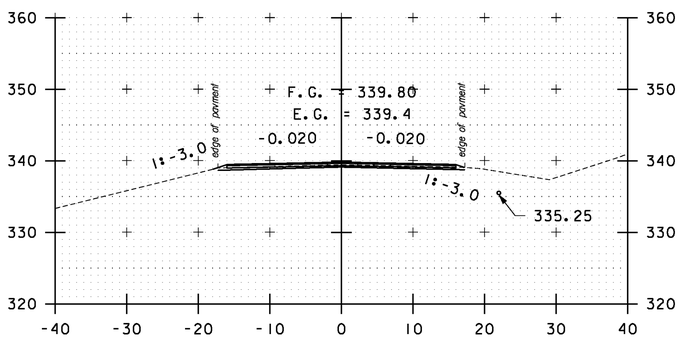
171+00



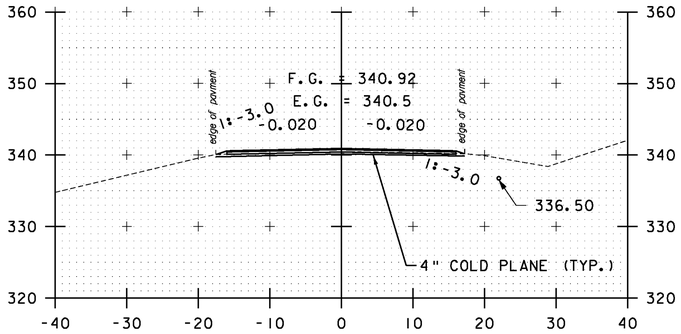
DRIVE RT
170+50



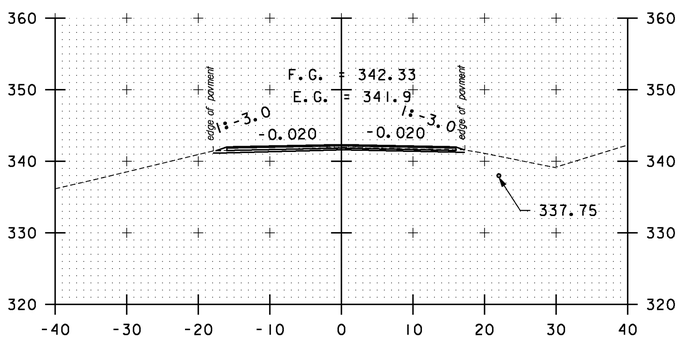
DRIVE RT
170+00



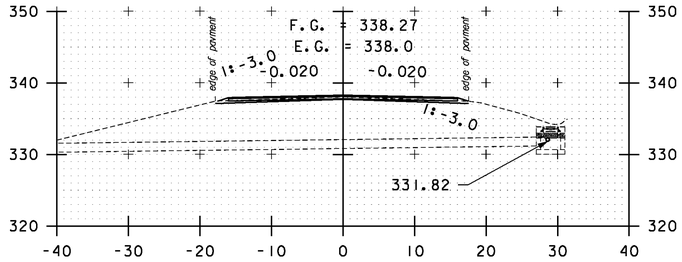
172+50



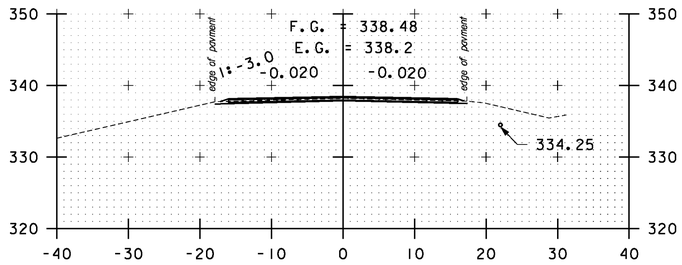
172+00



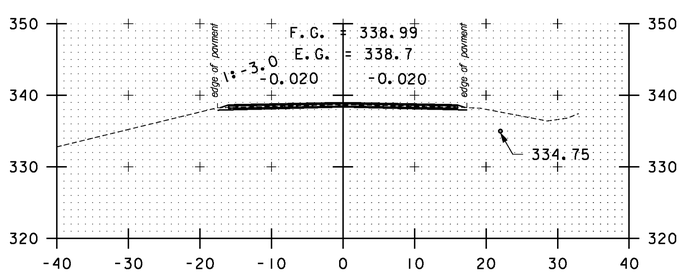
171+50



174+00



173+50



173+00

STA. 170+00 TO STA. 174+00

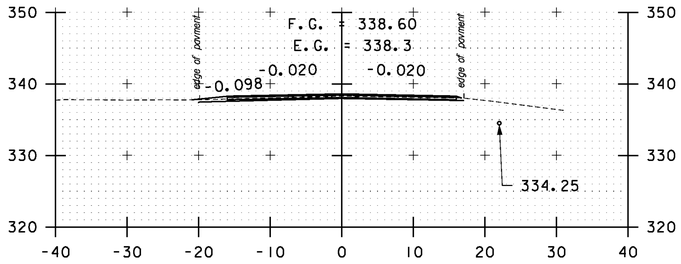
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 18

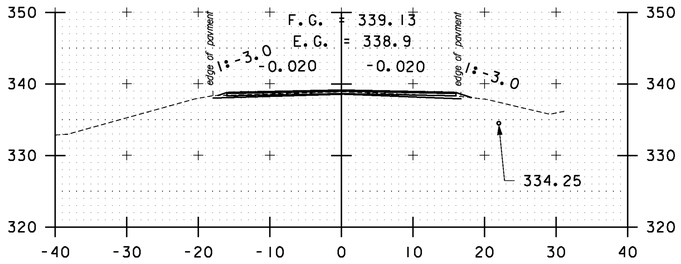
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_144.1

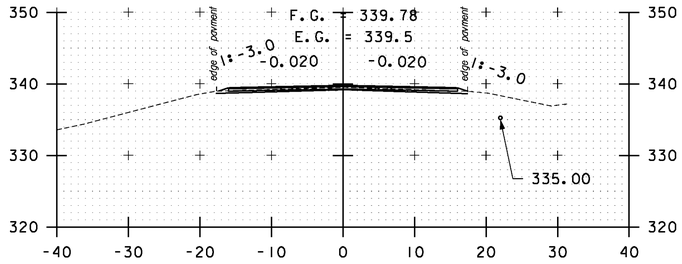
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 144 OF 217



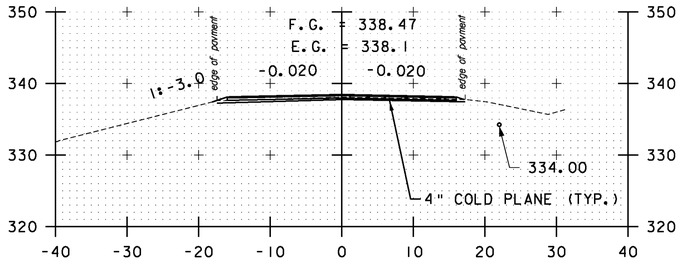
DRIVE LT
175+50



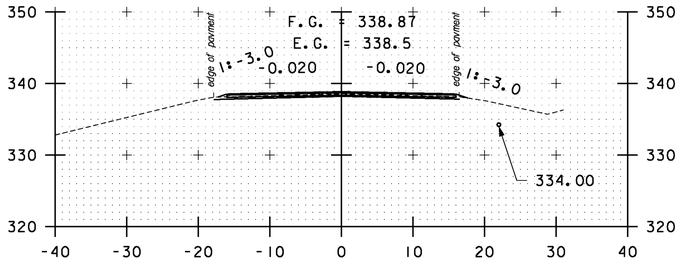
177+00



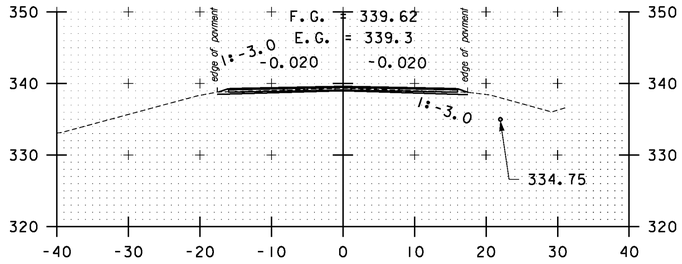
178+50



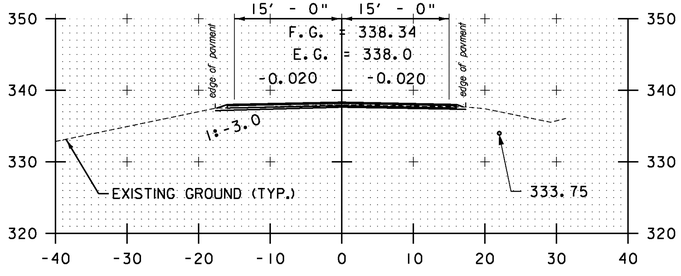
175+00



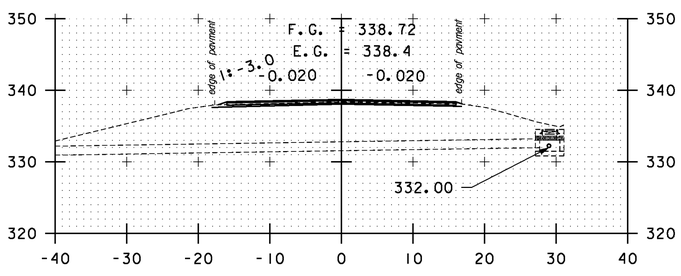
176+50



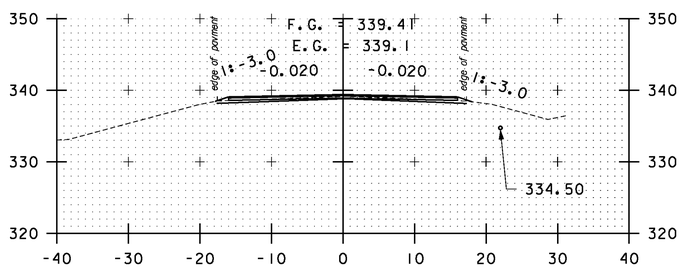
178+00



174+50



176+00



177+50

STA. 174+50 TO STA. 178+50

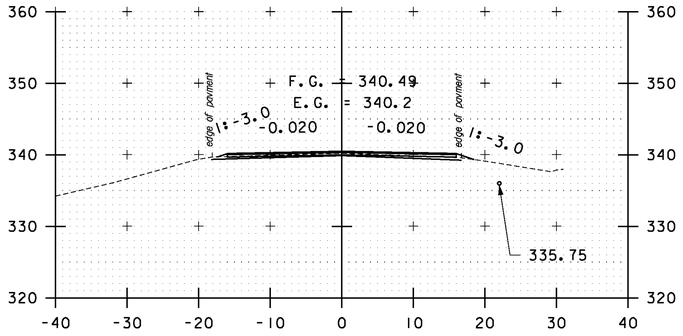
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 19

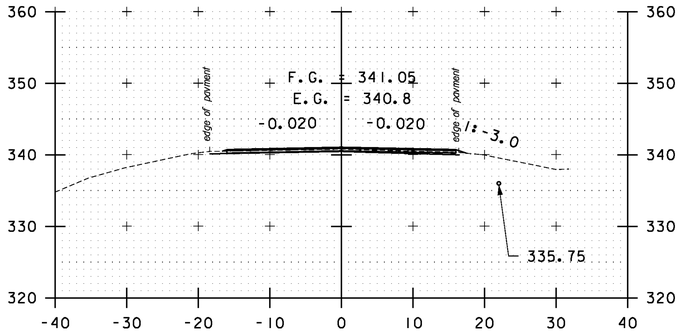
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_145.1

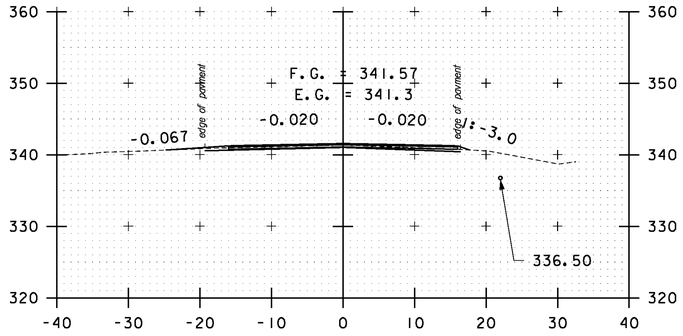
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 145 OF 217



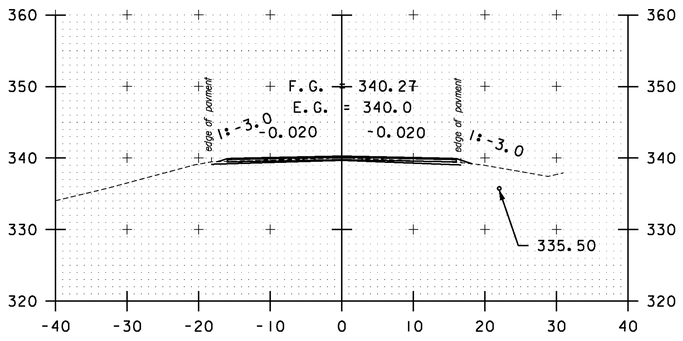
180+00



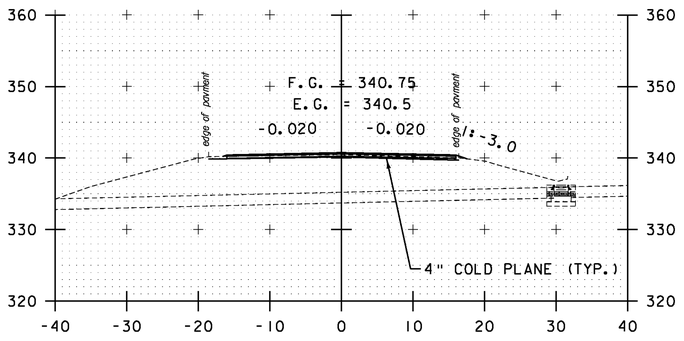
181+50



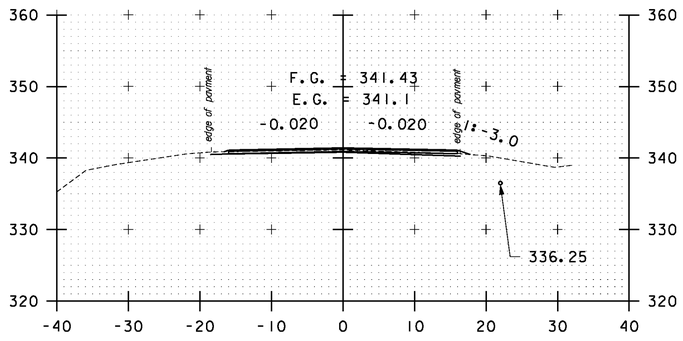
DRIVE LT
183+00



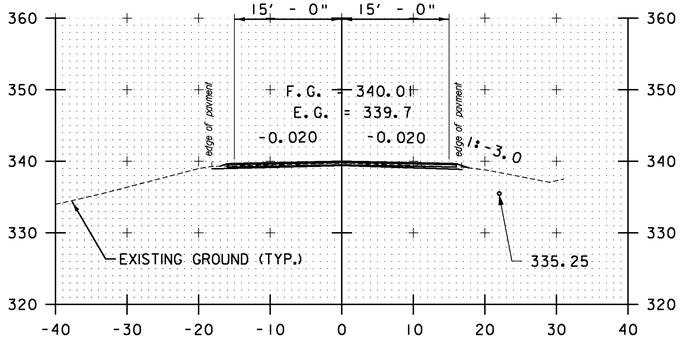
179+50



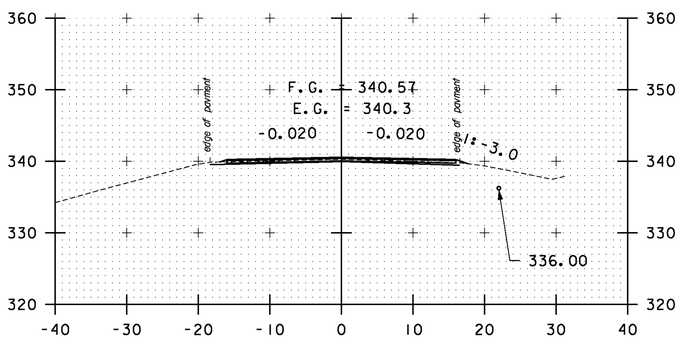
181+00



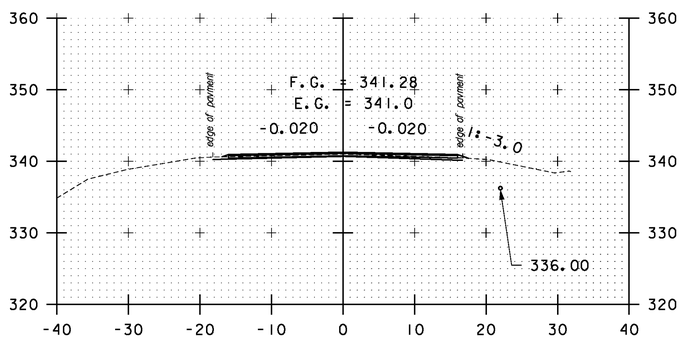
182+50



179+00



180+50



182+00

STA. 179+00 TO STA. 183+00

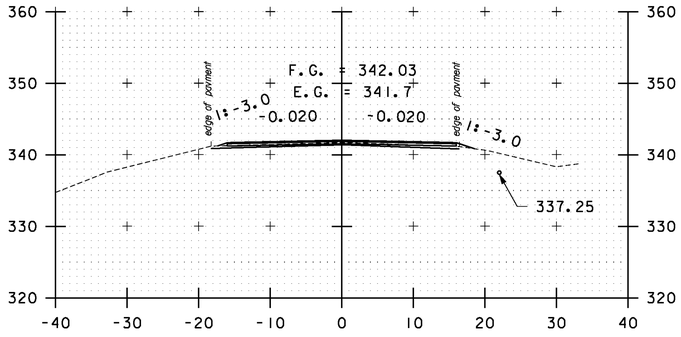
SCALE 1" = 10'-0
10 0 10

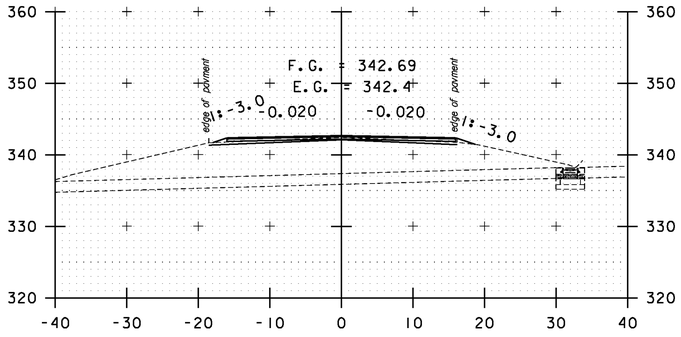
CROSS SECTION SHEET 20

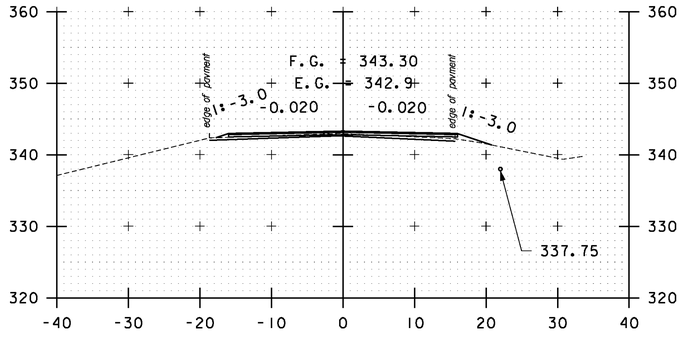
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_146.1

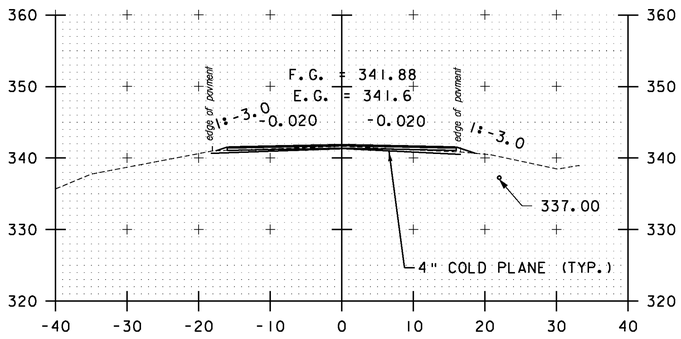
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 146 OF 217



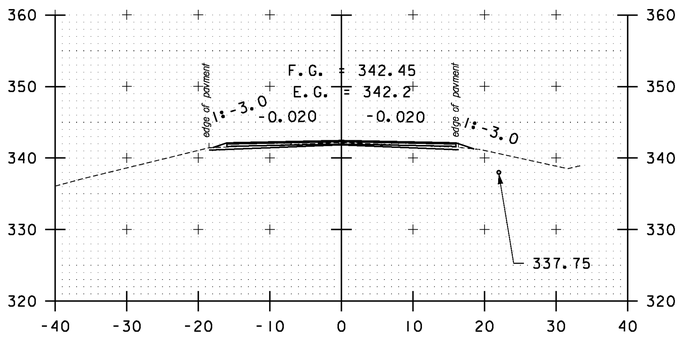




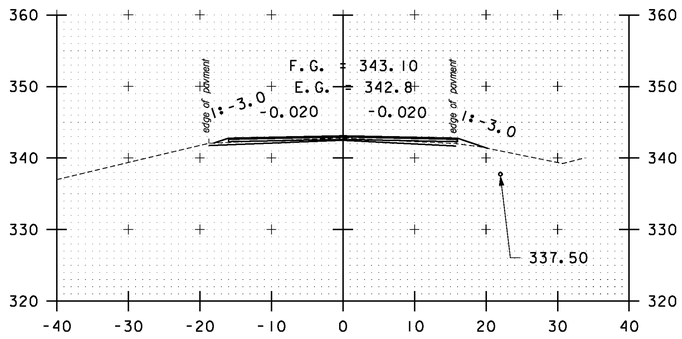
184+50



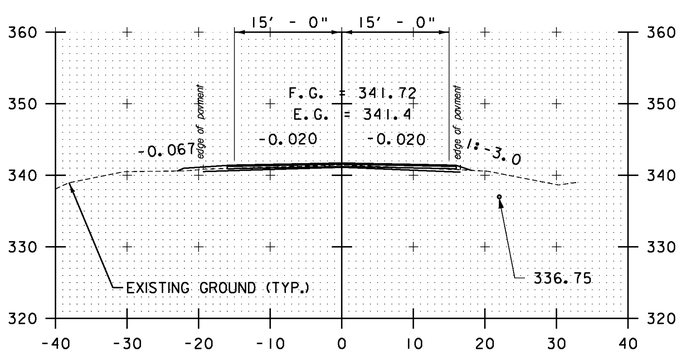
186+00



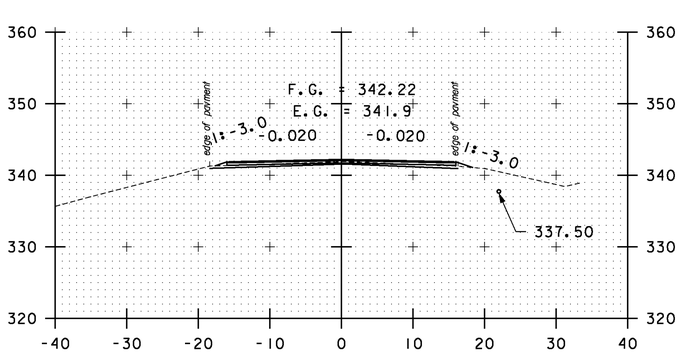
187+50



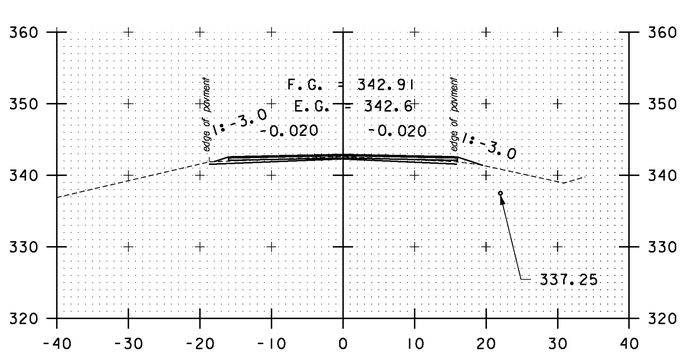
184+00



185+50



187+00



DRIVE LT
183+50

185+00

186+50

STA. 183+50 TO STA. 187+50

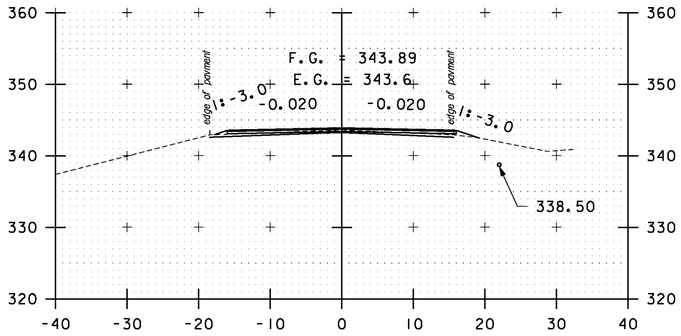
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 21

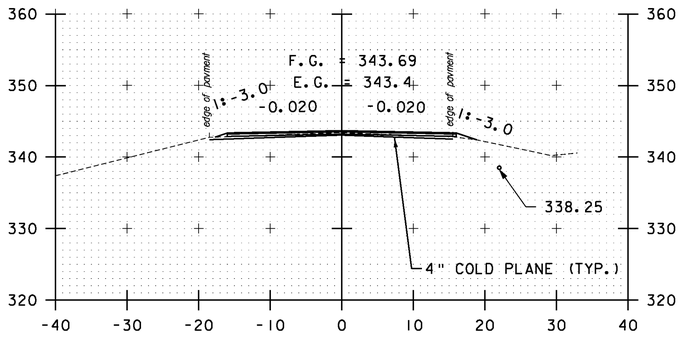
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_147.1

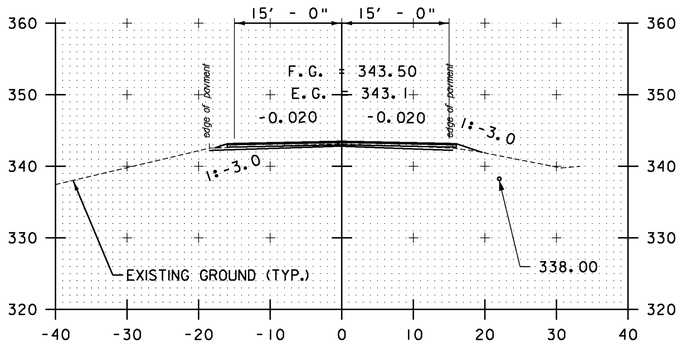
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 147 OF 217



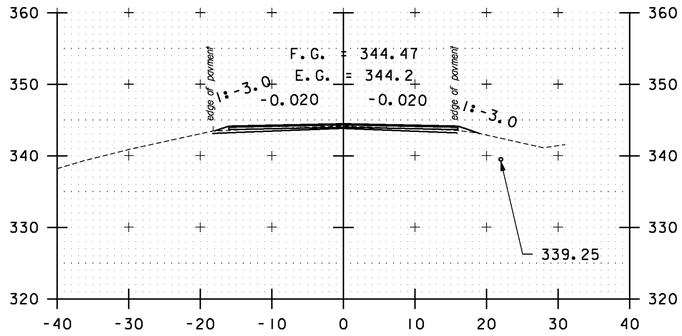
189+00



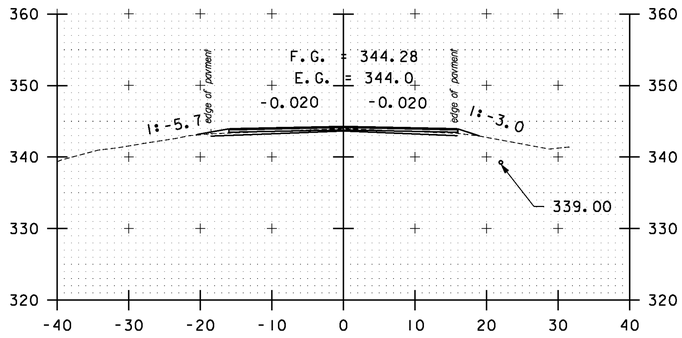
188+50



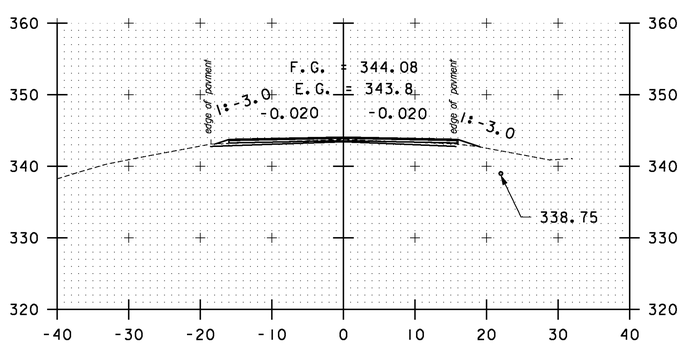
188+00



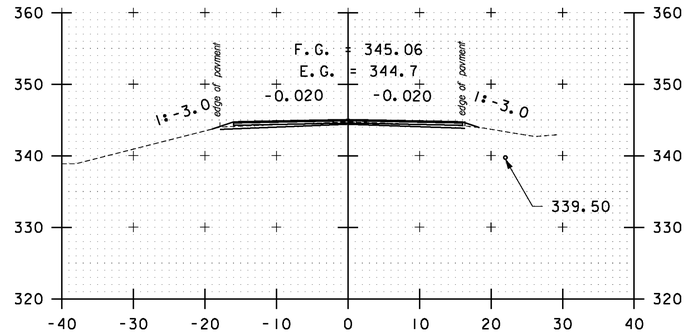
190+50



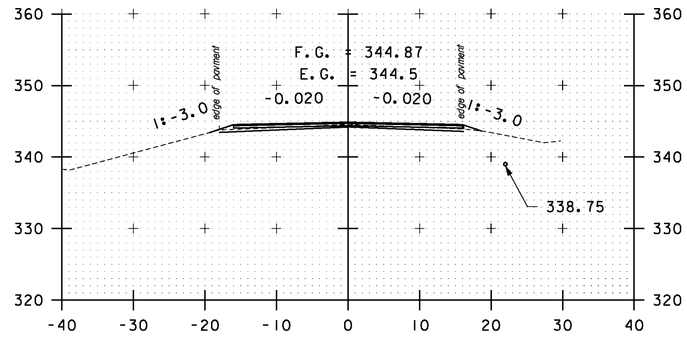
DRIVE LT
190+00



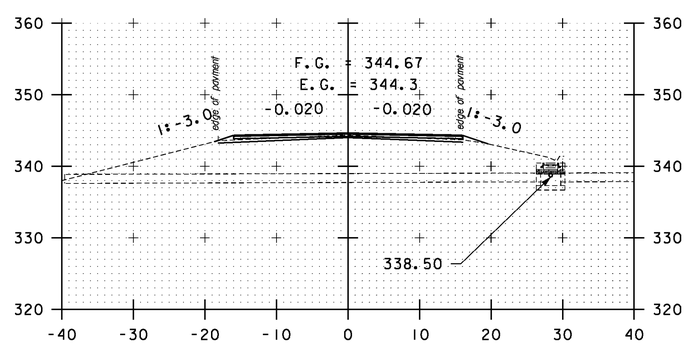
189+50



192+00



191+50



191+00

STA. 188+00 TO STA. 192+00

SCALE 1" = 10'-0

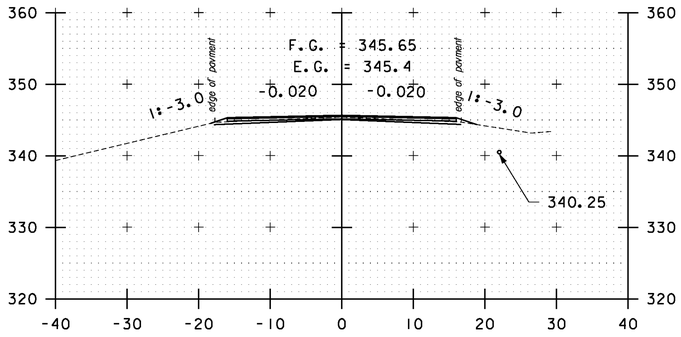
10 0 10

CROSS SECTION SHEET 22

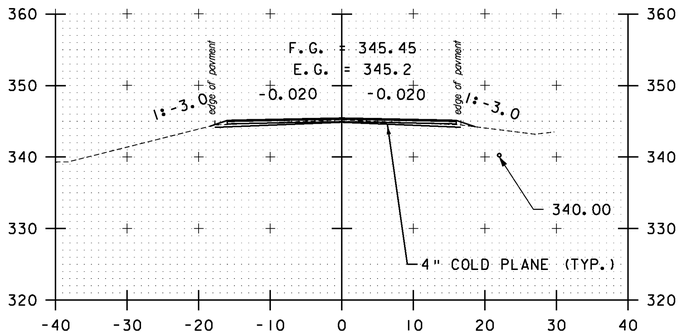
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_148.1

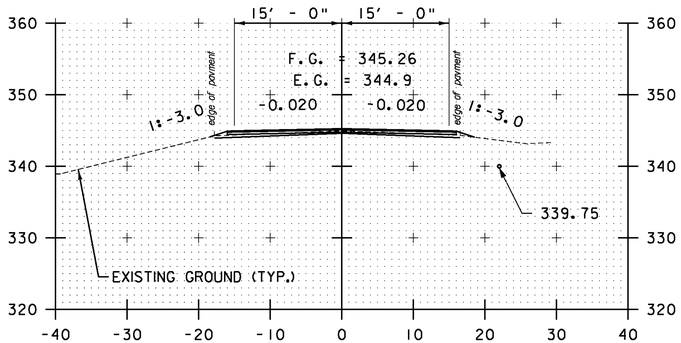
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 148 OF 217



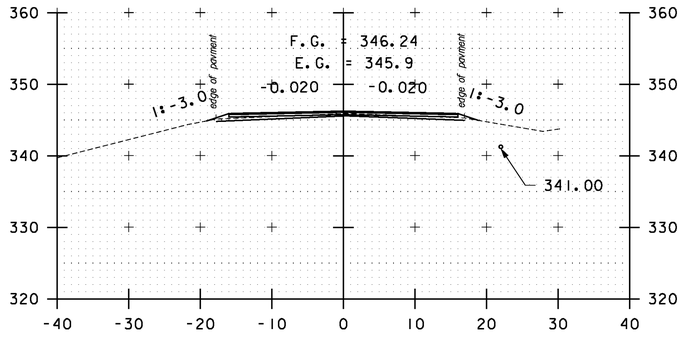
193+50



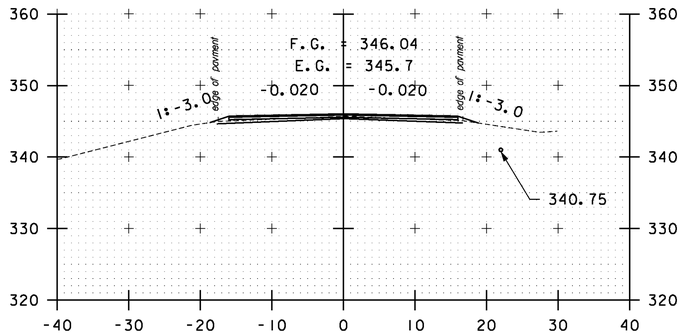
193+00



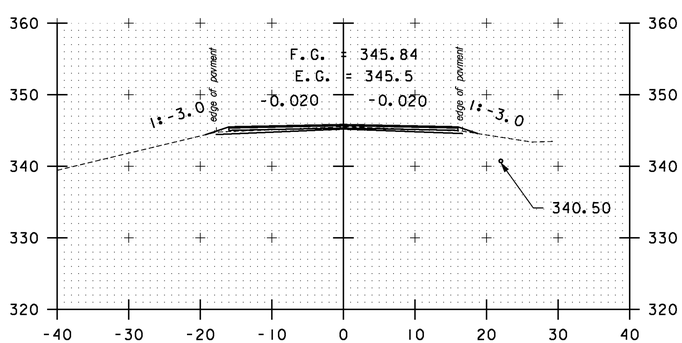
192+50



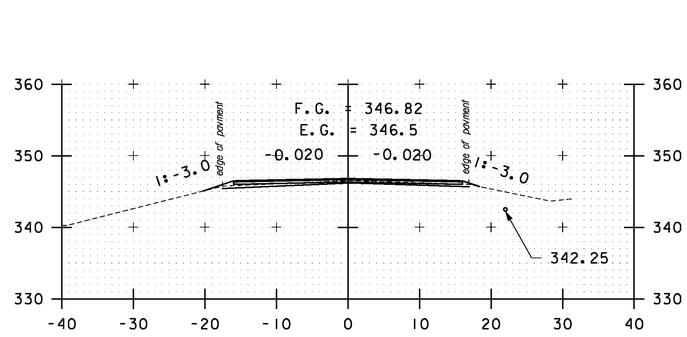
195+00



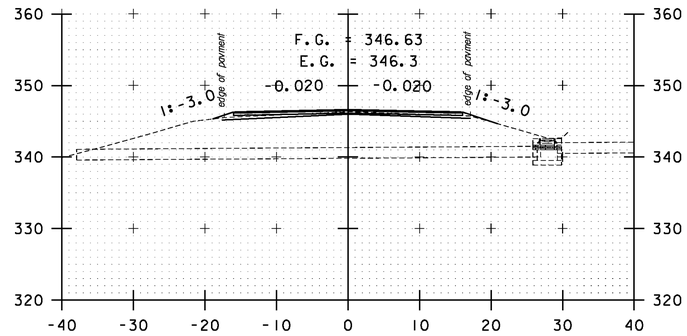
194+50



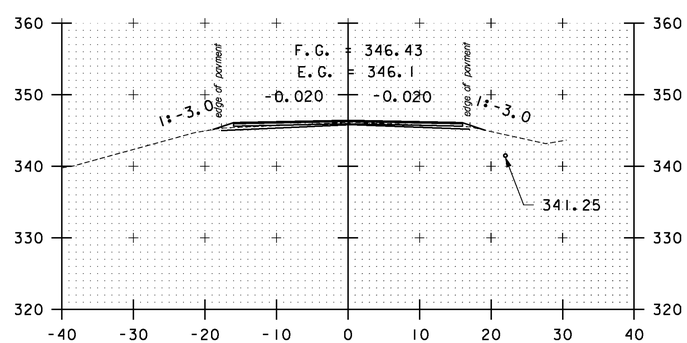
194+00



196+50



196+00



195+50

STA. 192+50 TO STA. 196+50

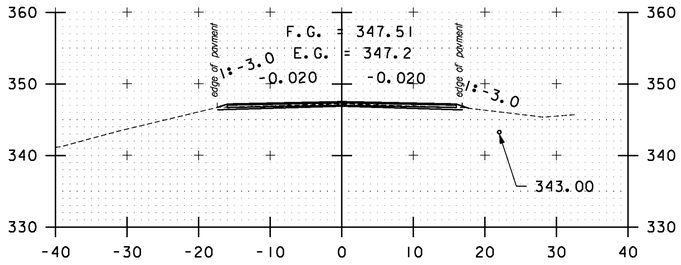
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 23

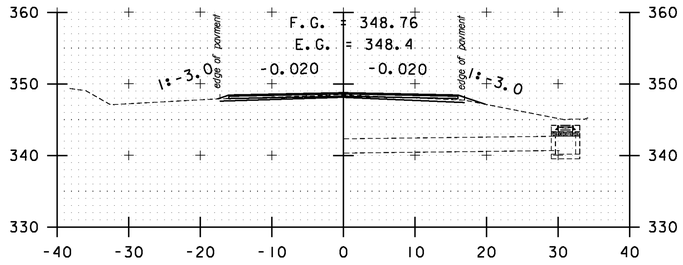
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_149.1

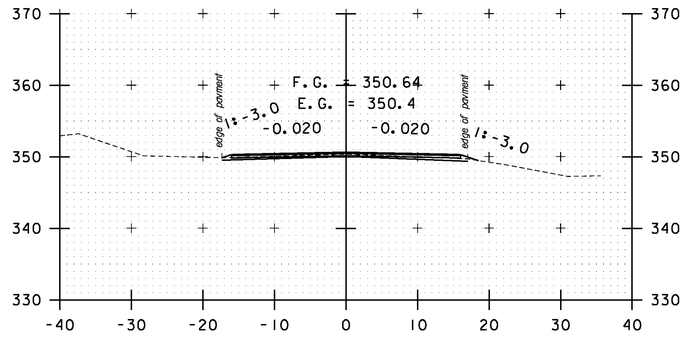
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 149 OF 217



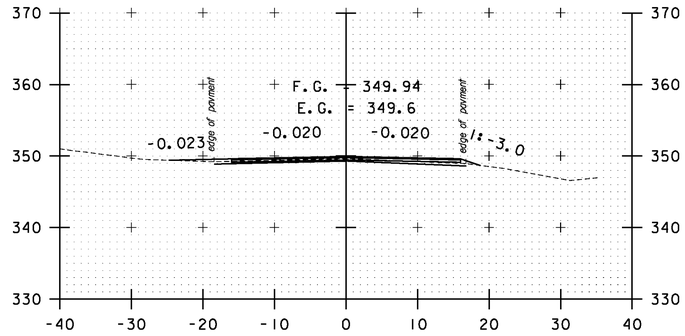
198+00



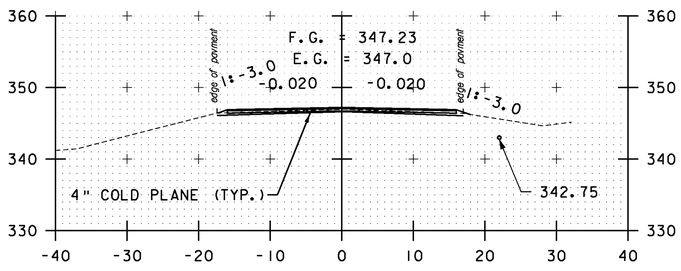
199+50



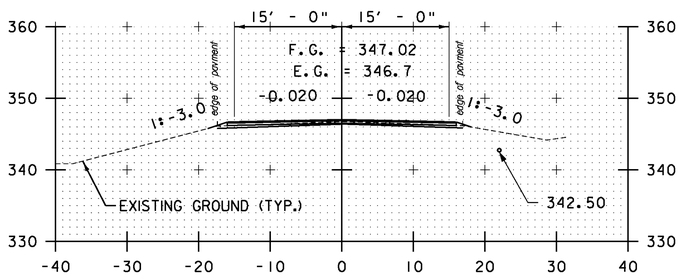
201+00



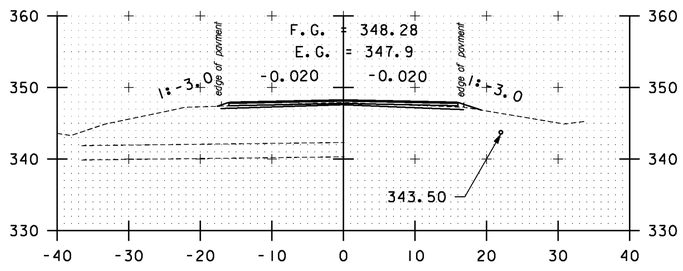
DRIVE LT
200+50



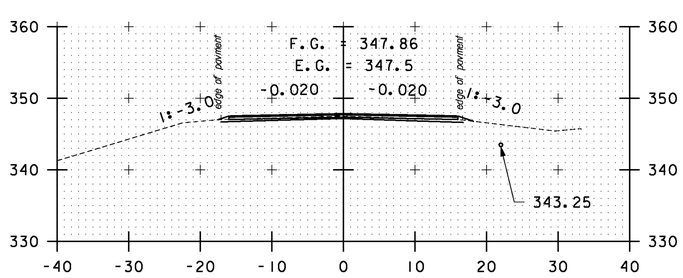
197+50



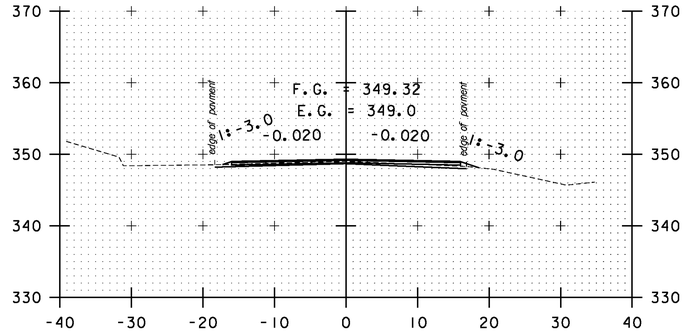
197+00



199+00



198+50



200+00

STA. 197+00 TO STA. 201+00

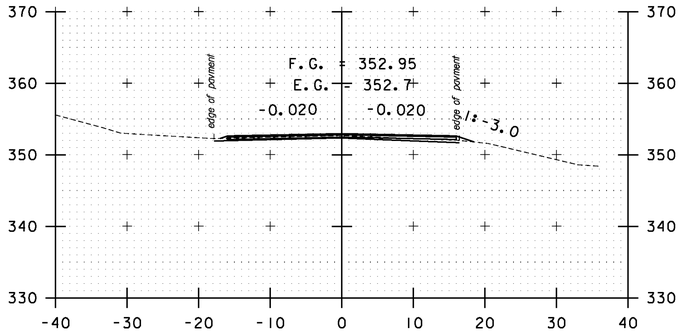
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 24

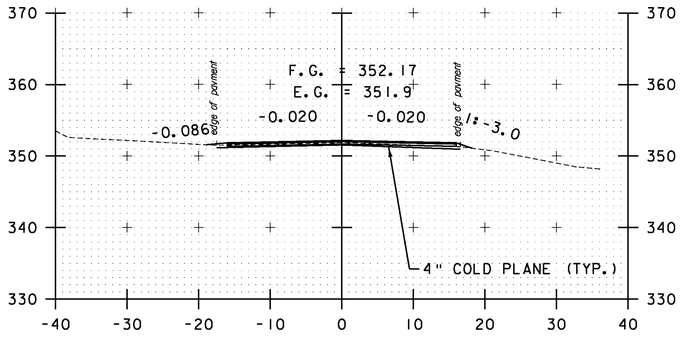
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_150.1

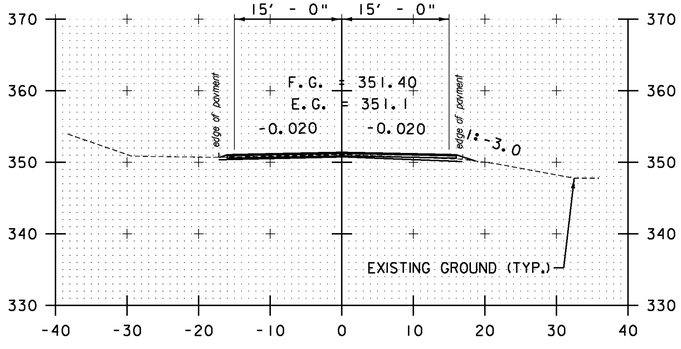
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 150 OF 217



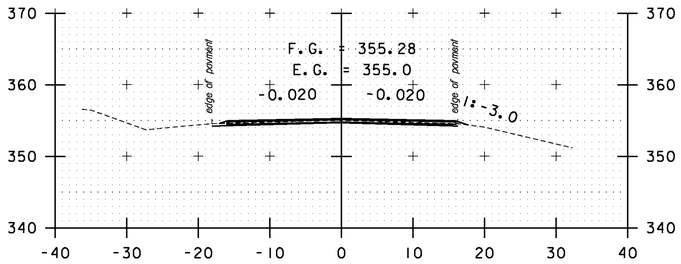
202+50



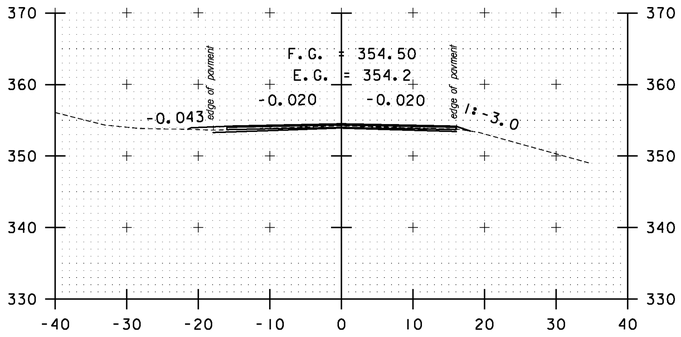
DRIVE LT
202+00



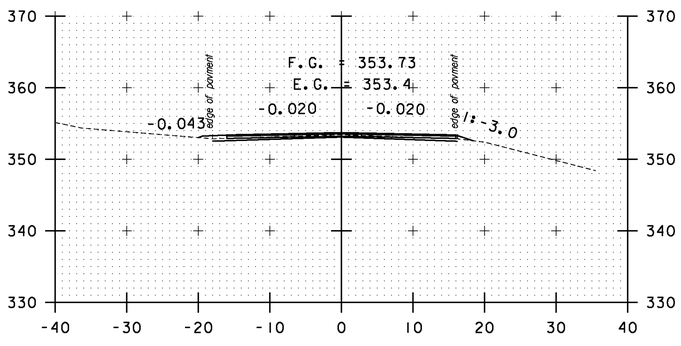
201+50



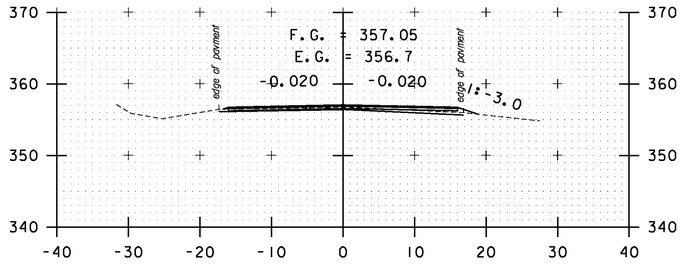
204+00



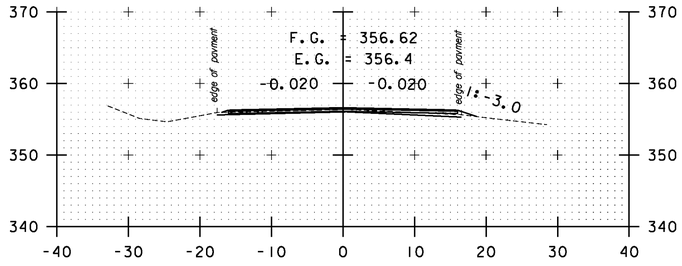
DRIVE LT
203+50



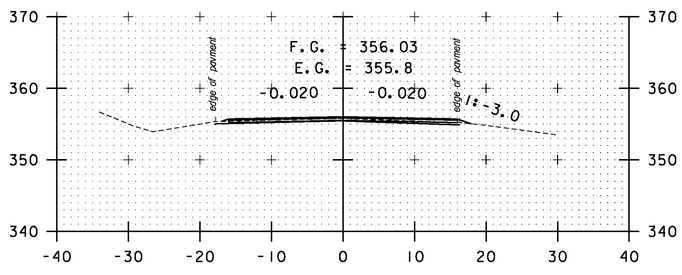
DRIVE LT
203+00



205+50



205+00



204+50

STA. 201+50 TO STA. 205+50

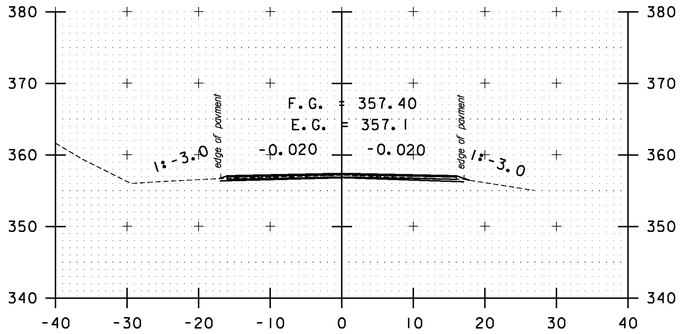
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 25

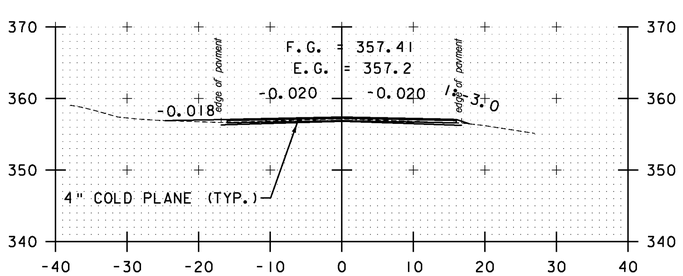
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_151.1

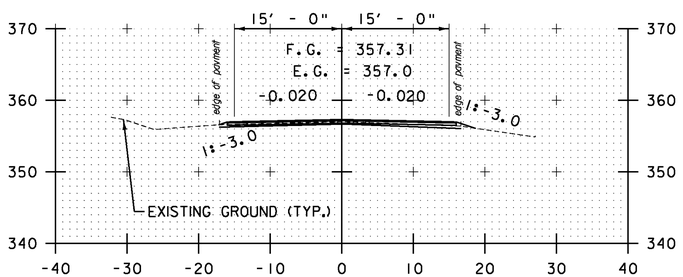
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 151 OF 217



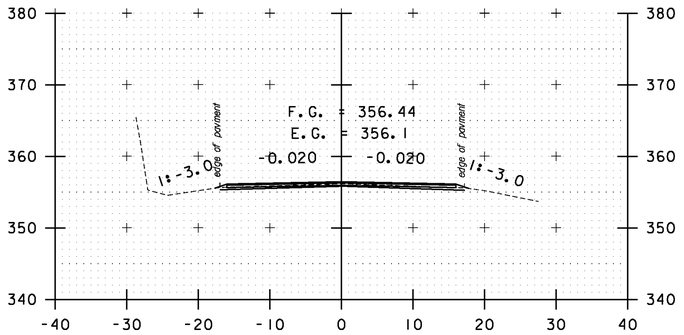
207+00



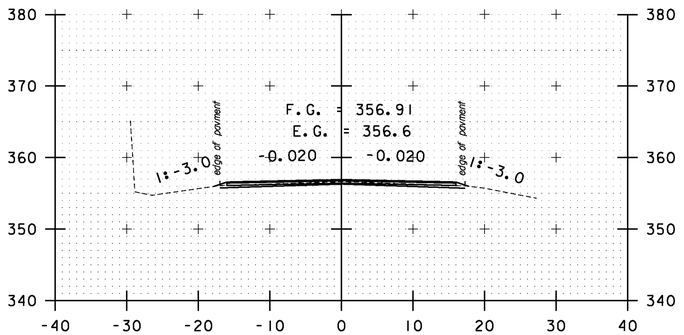
DRIVE LT
206+50



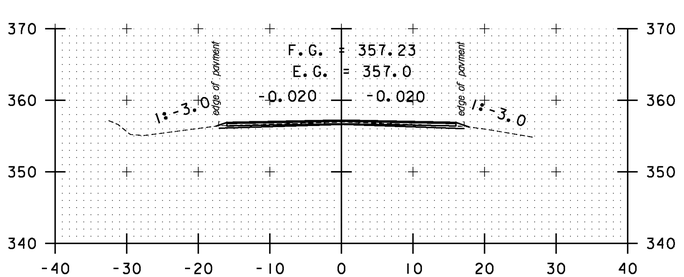
206+00



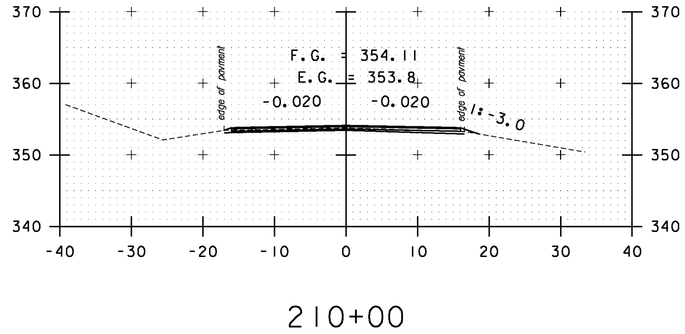
208+50



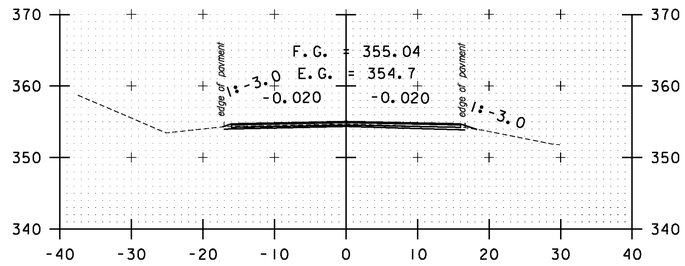
208+00



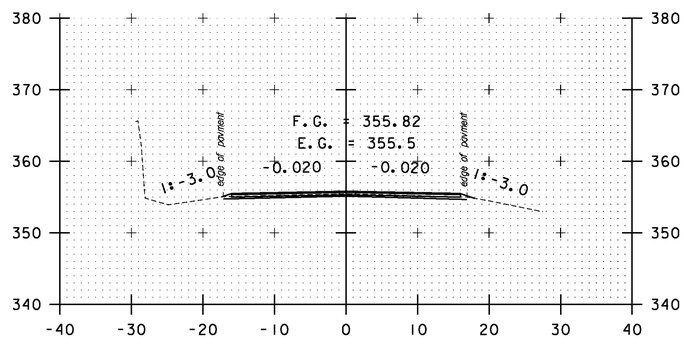
207+50



210+00



209+50



209+00

STA. 206+00 TO STA. 210+00

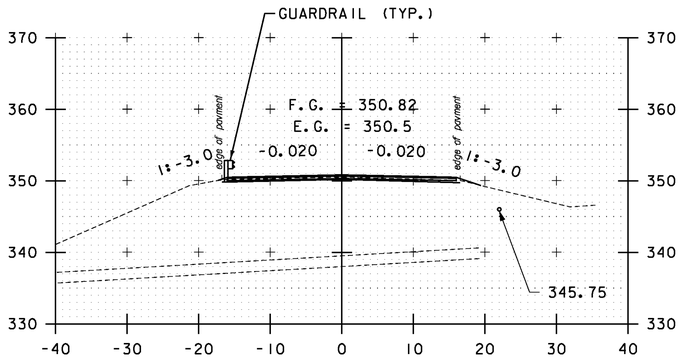
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 26

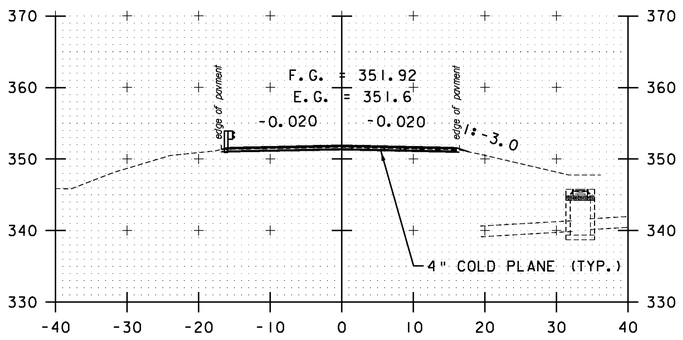
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_152.1

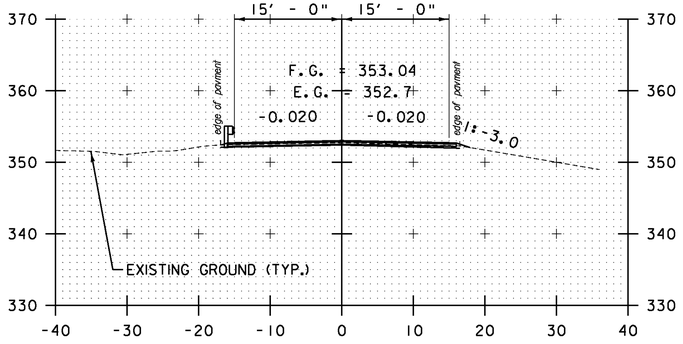
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 152 OF 217



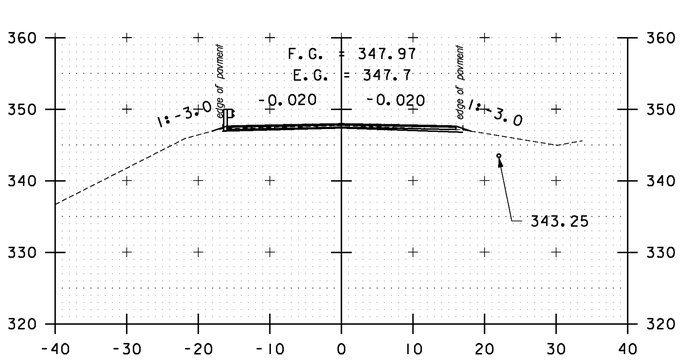
211+50



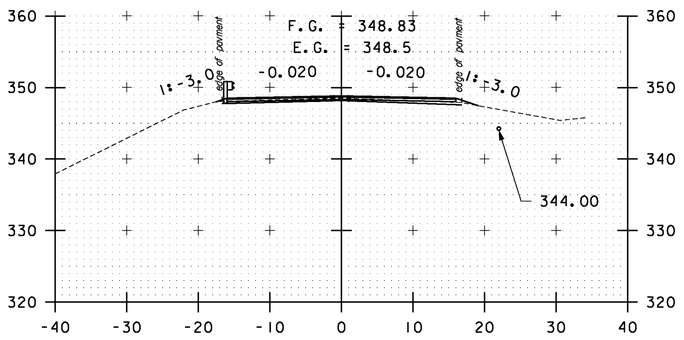
211+00



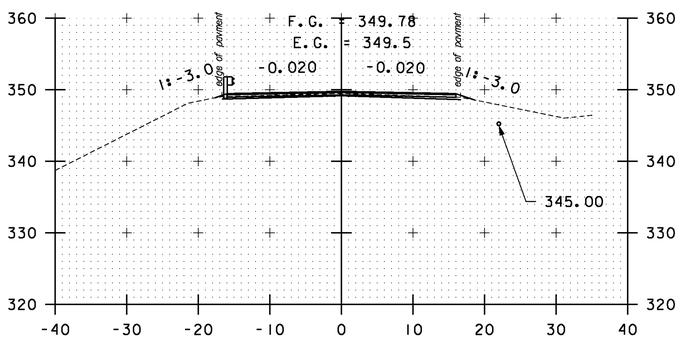
210+50



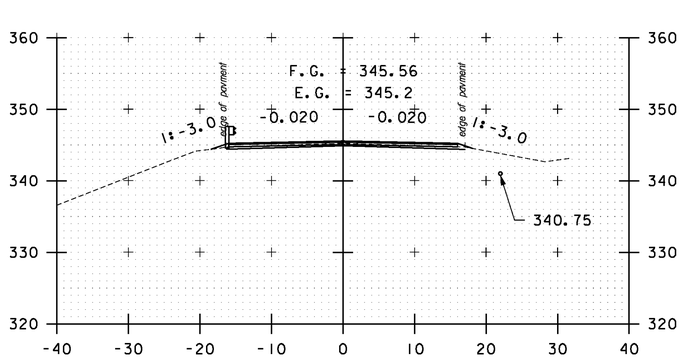
213+00



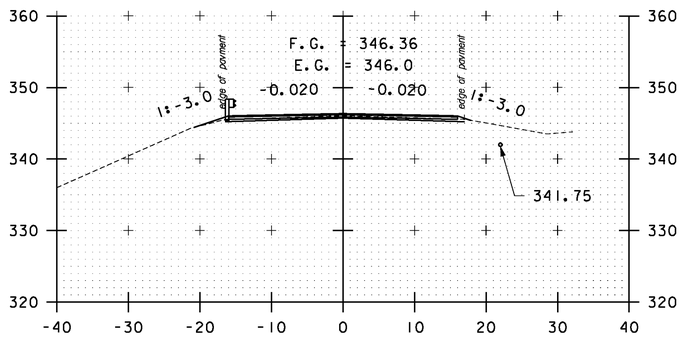
212+50



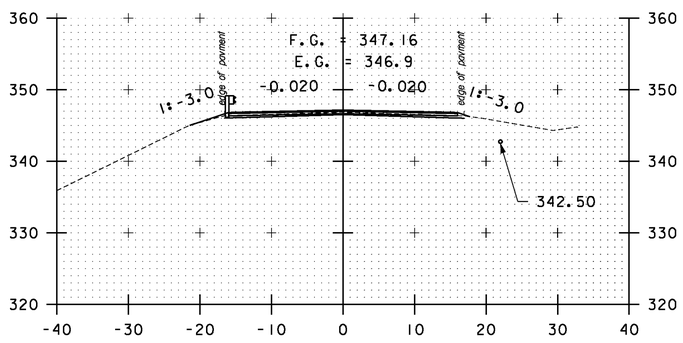
212+00



214+50



214+00



213+50

STA. 210+50 TO STA. 214+50

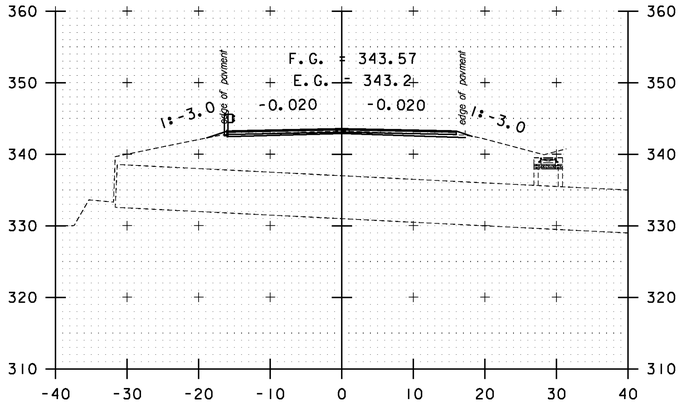
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 27

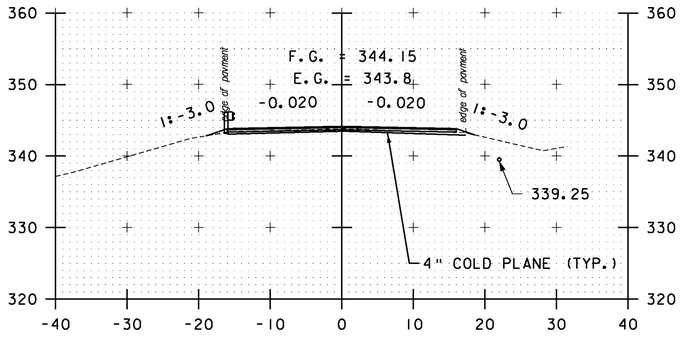
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_153.1

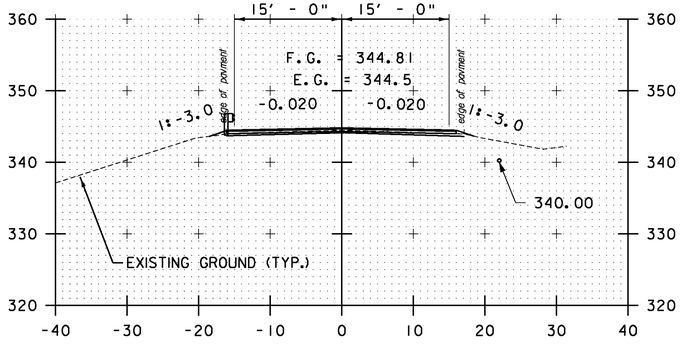
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 153 OF 217



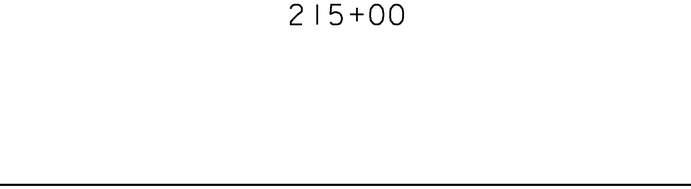
216+00



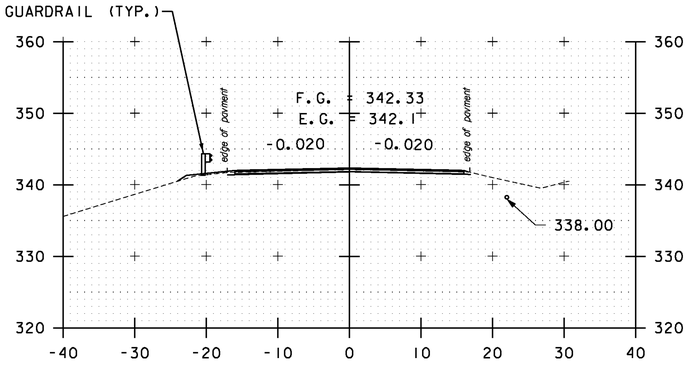
215+50



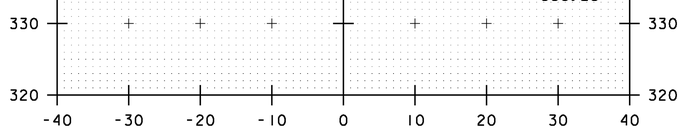
215+00



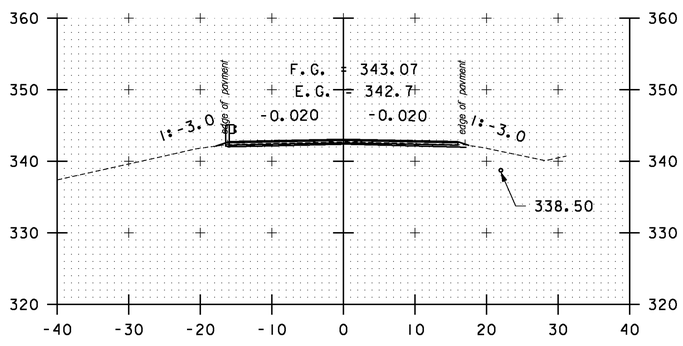
217+50



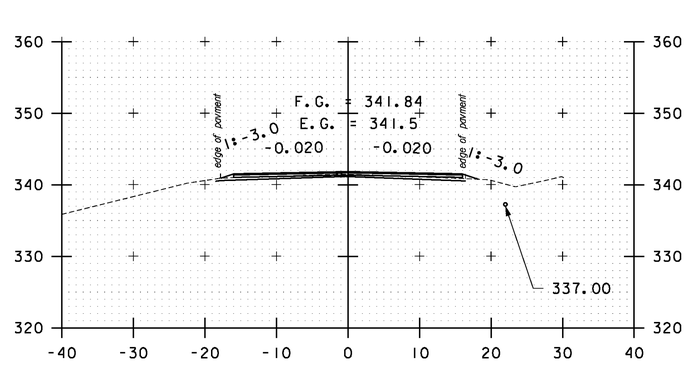
217+00



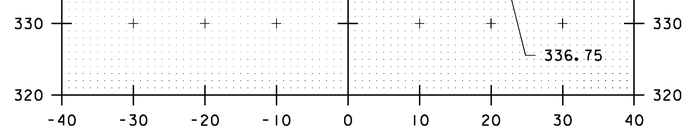
216+50



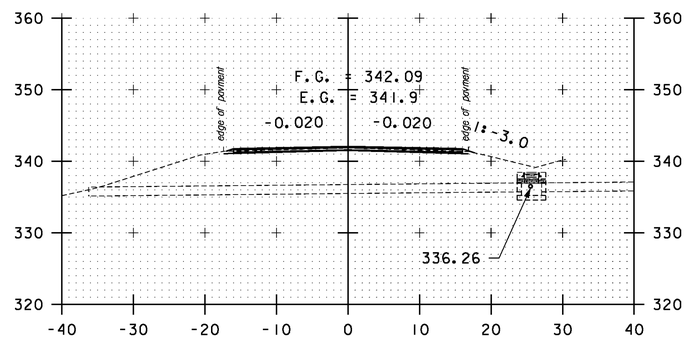
219+00



218+50



218+00



STA. 215+00 TO STA. 219+00

SCALE 1" = 10'-0

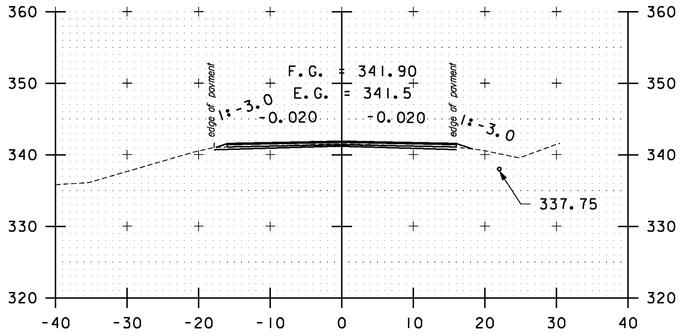
10 0 10

CROSS SECTION SHEET 28

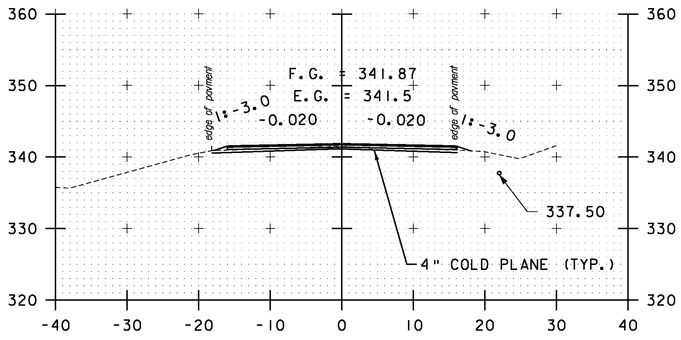
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_154.1

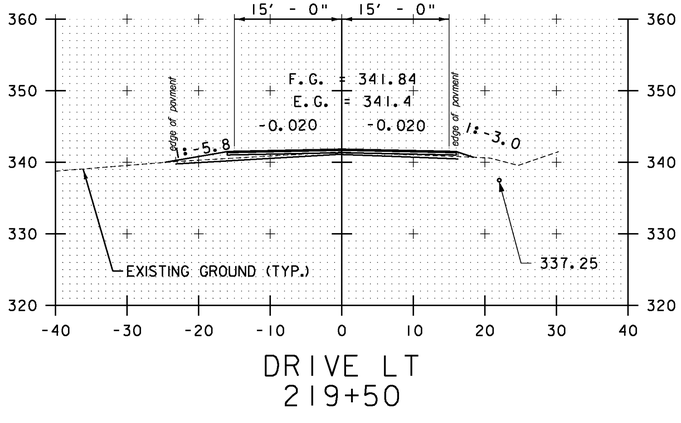
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 154 OF 217



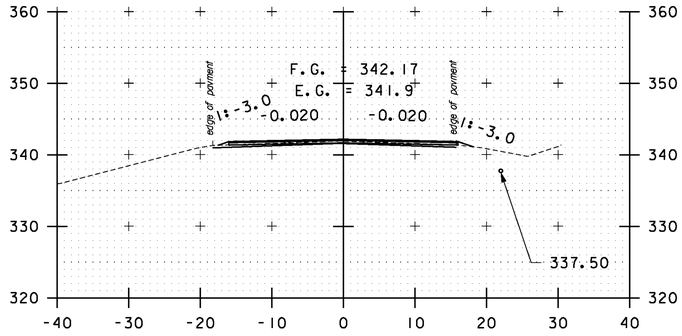
220+50



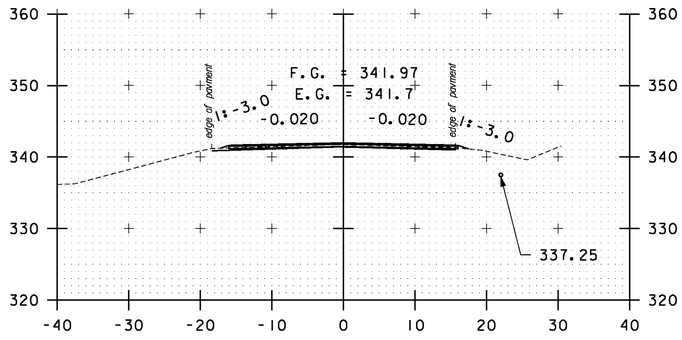
220+00



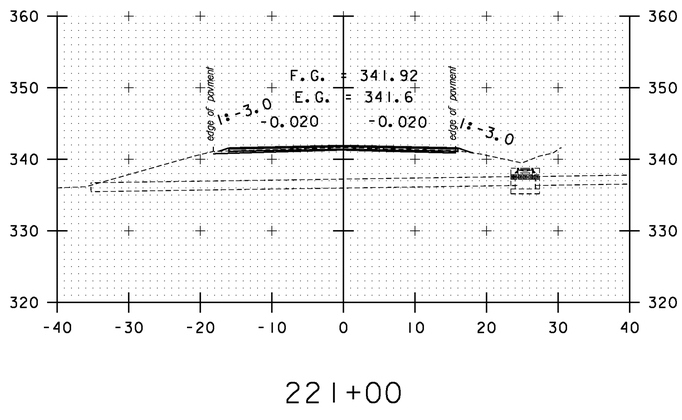
DRIVE LT
219+50



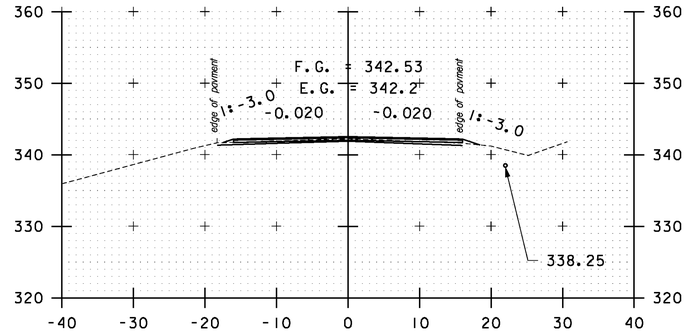
222+00



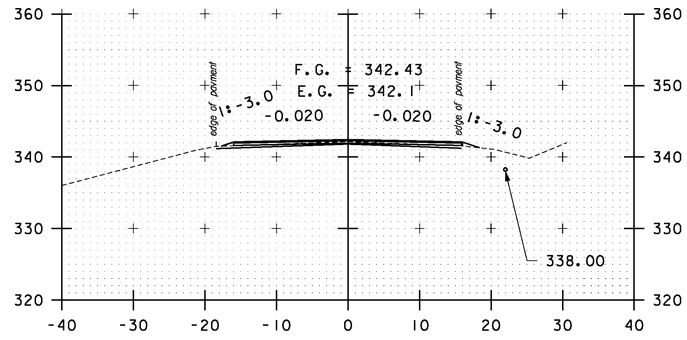
221+50



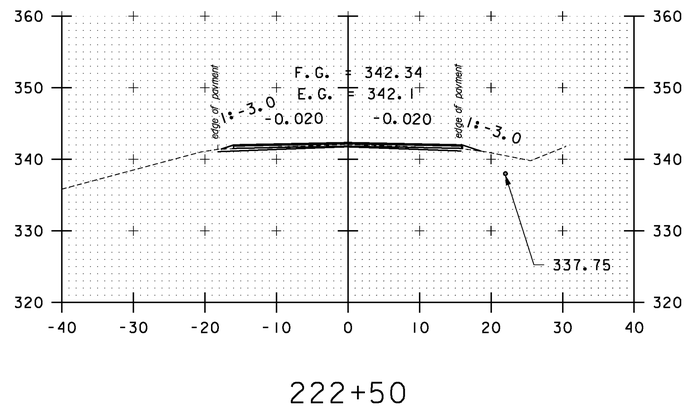
221+00



223+50



223+00



222+50

STA. 219+50 TO STA. 223+50

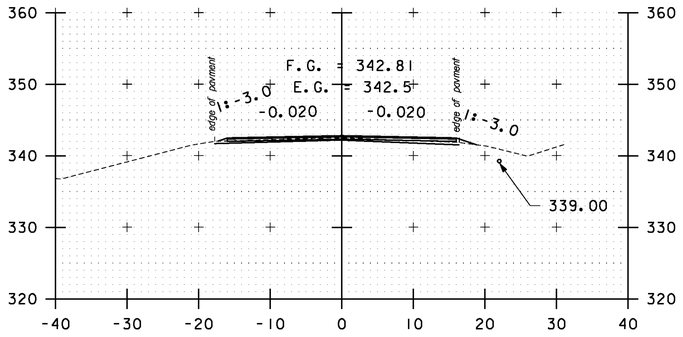
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 29

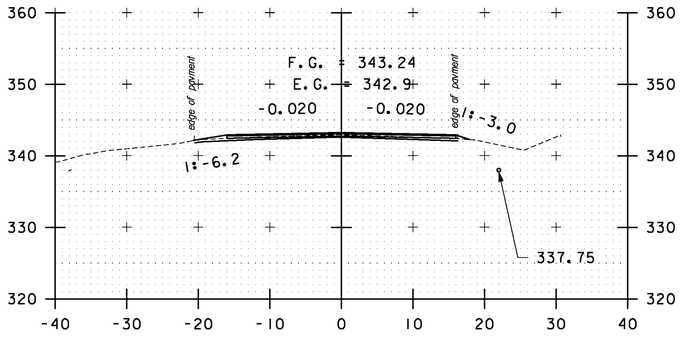
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_155.1

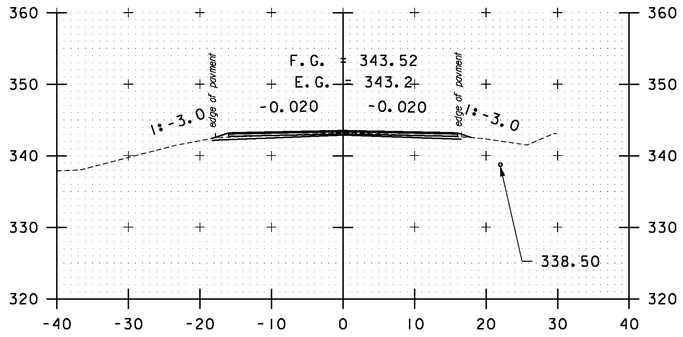
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 155 OF 217



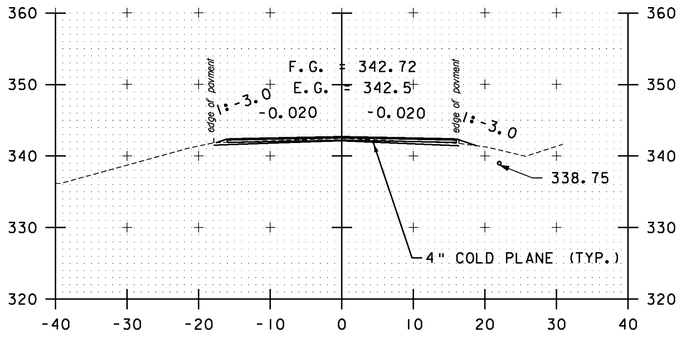
225+00



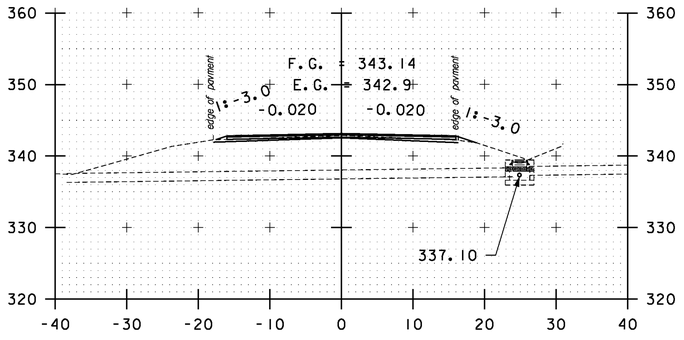
DRIVE LT
226+50



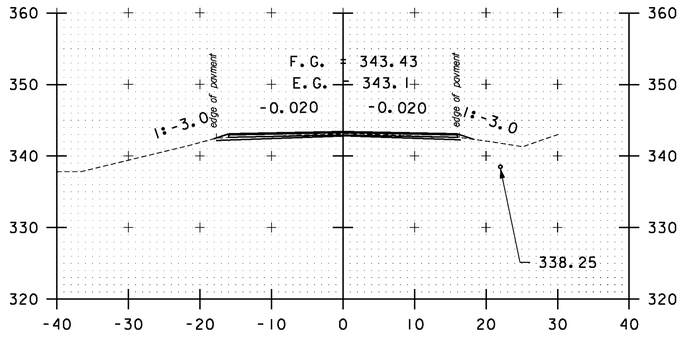
228+00



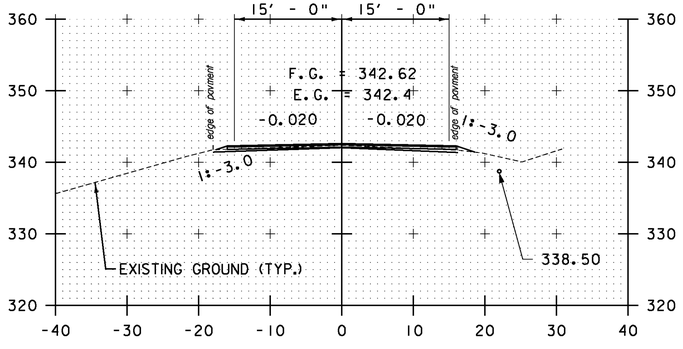
224+50



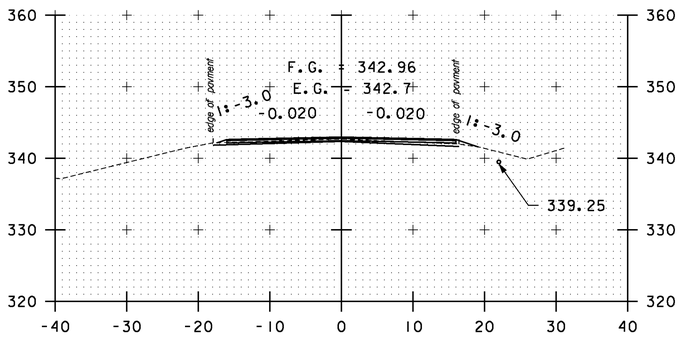
226+00



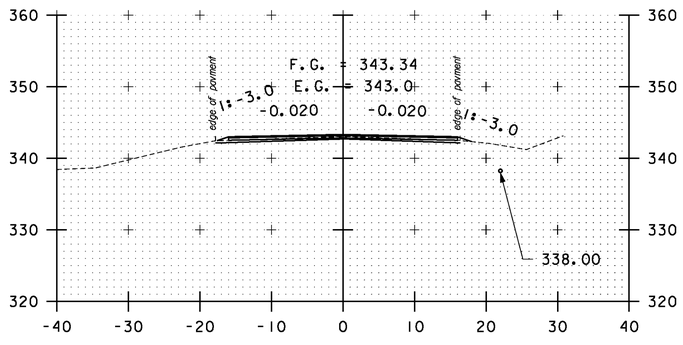
227+50



224+00



225+50



227+00

STA. 224+00 TO STA. 228+00

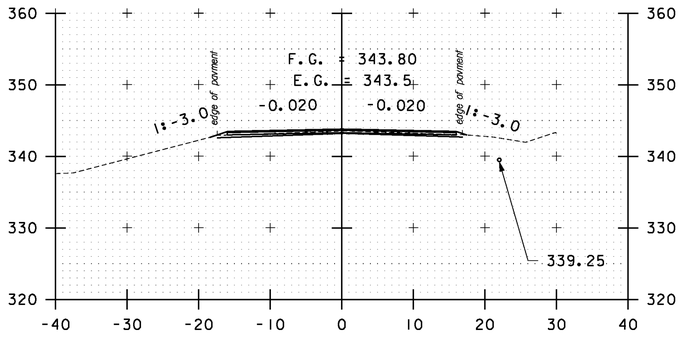
SCALE 1" = 10'-0
10 0 10

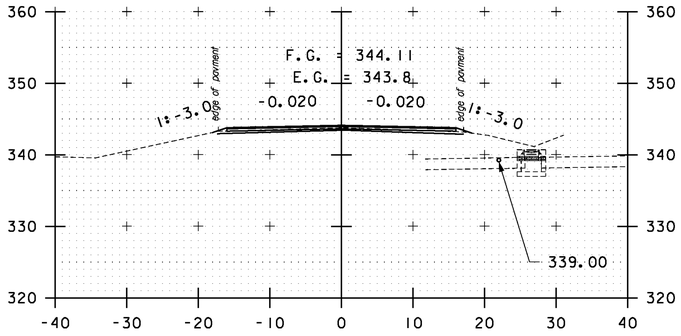
CROSS SECTION SHEET 30

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

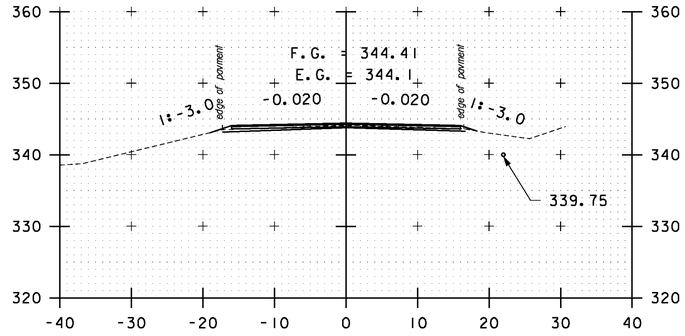
FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_156.1

PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 156 OF 217



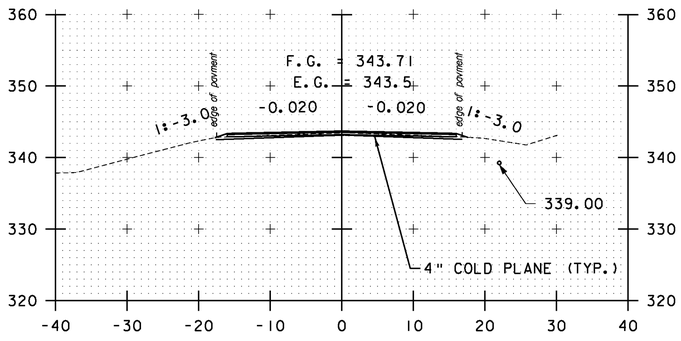


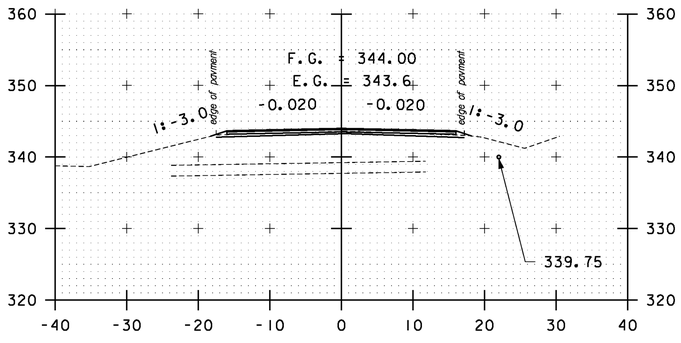
231+00



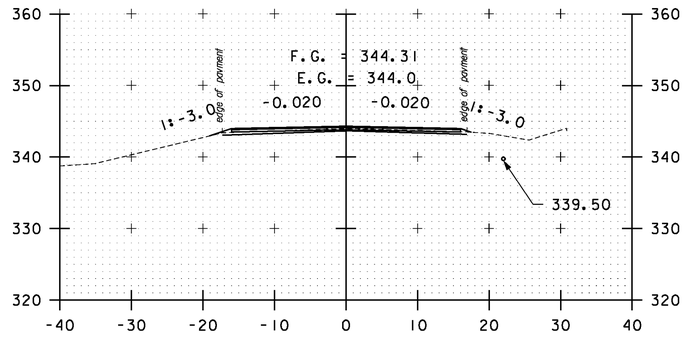
232+50

229+50



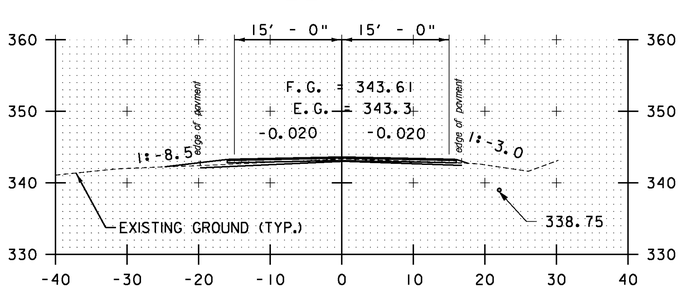


230+50

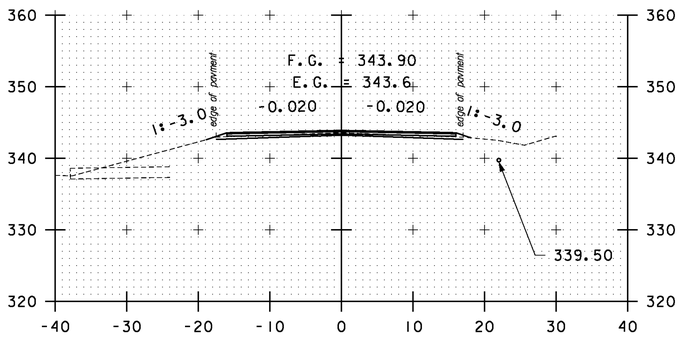


232+00

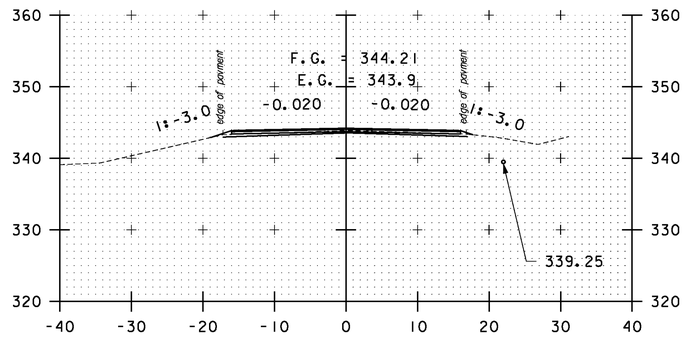
229+00



DRIVE LT
228+50



230+00



231+50

STA. 228+50 TO STA. 232+50

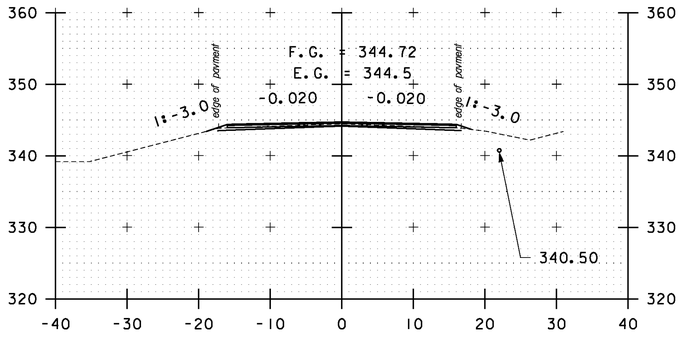
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 31

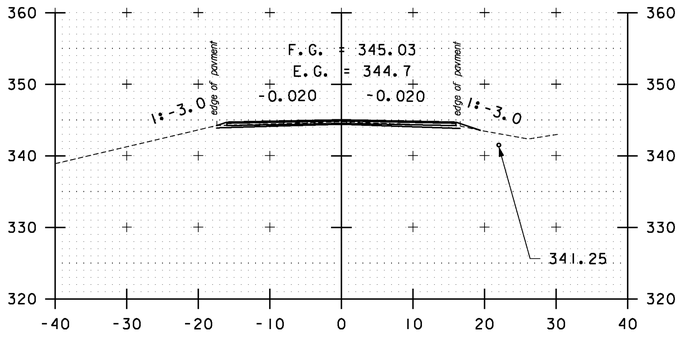
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_157.1

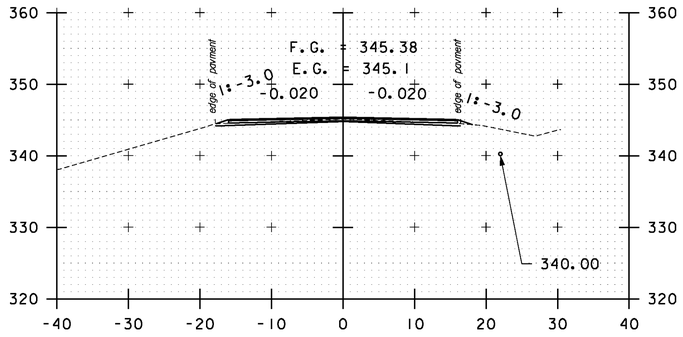
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 157 OF 217



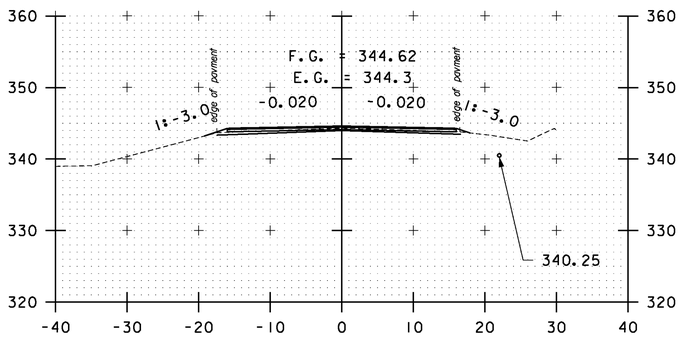
233+50



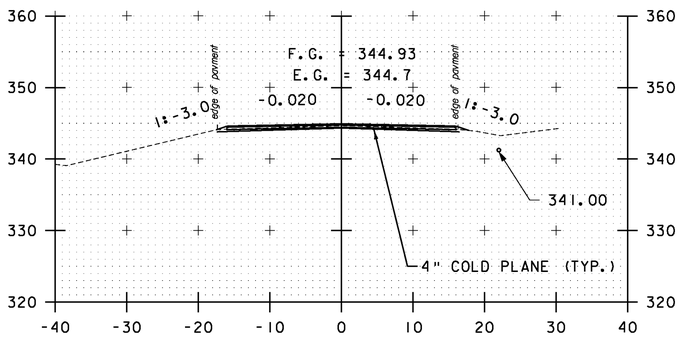
235+00



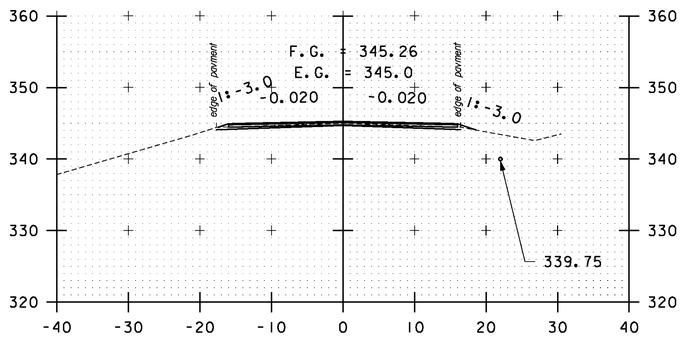
236+50



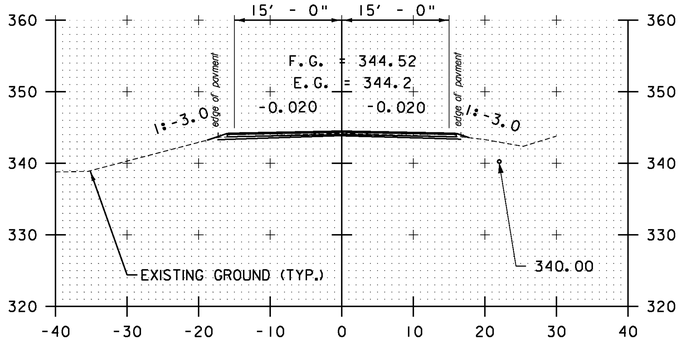
234+00



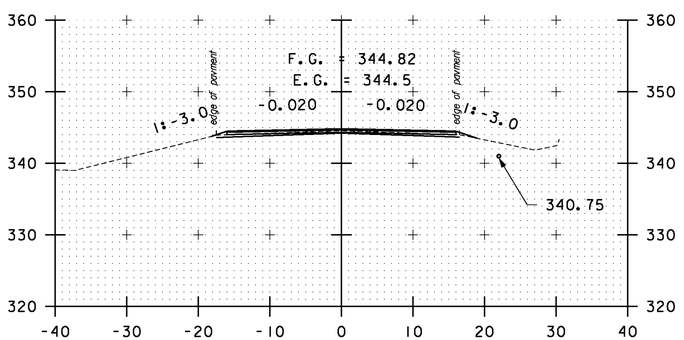
235+50



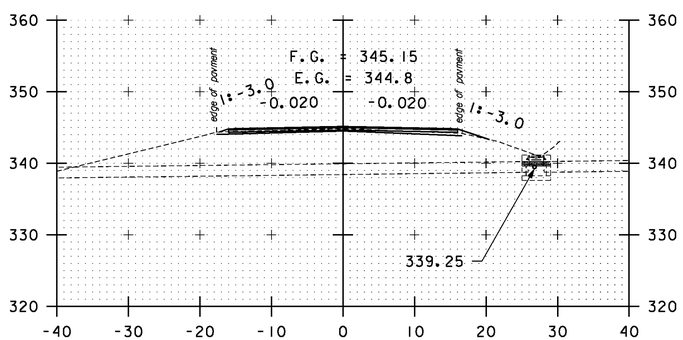
237+00



233+00



234+50



236+00

STA. 233+00 TO STA. 237+00

SCALE 1" = 10'-0

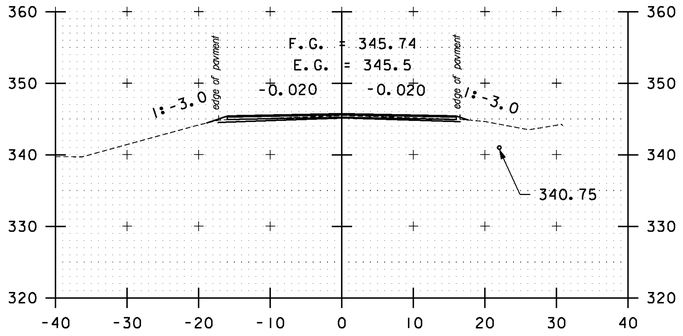
10 0 10

CROSS SECTION SHEET 32

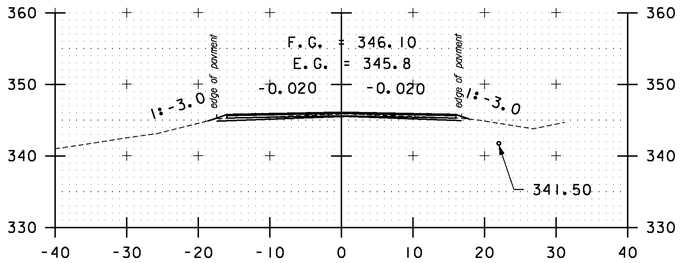
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_158.1

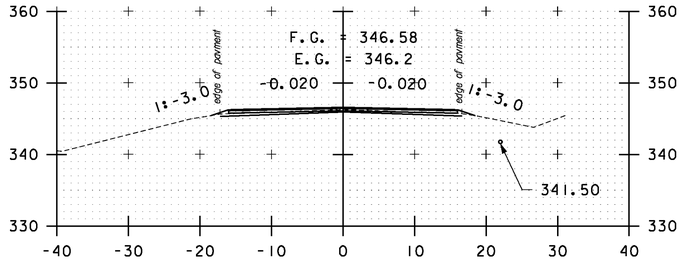
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 158 OF 217



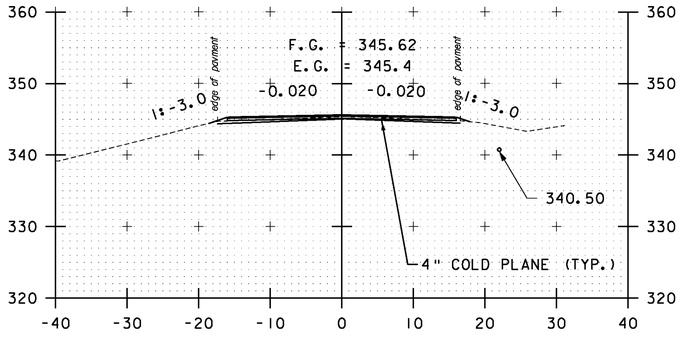
238+50



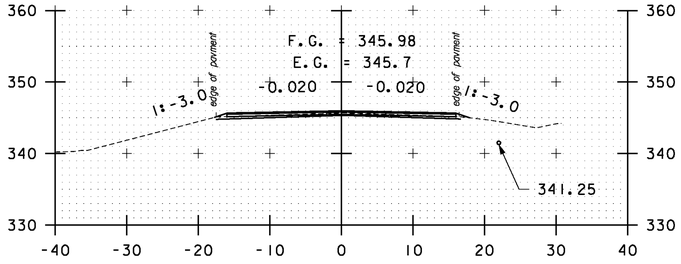
240+00



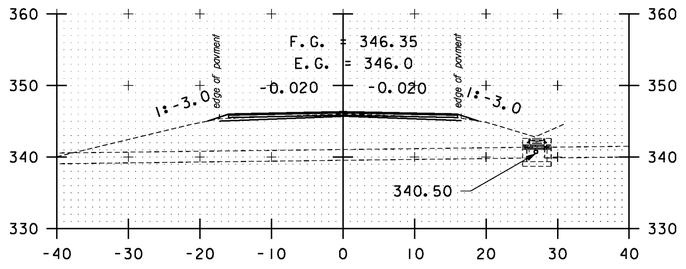
241+50



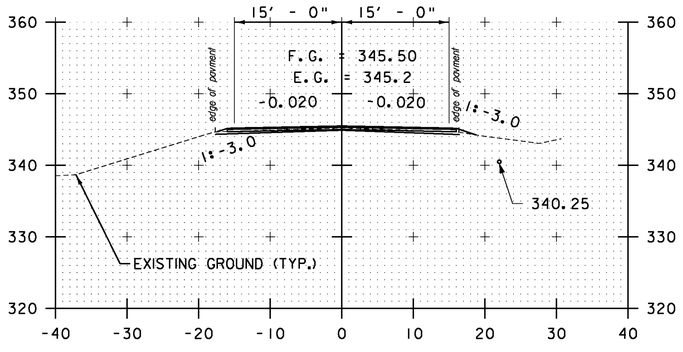
238+00



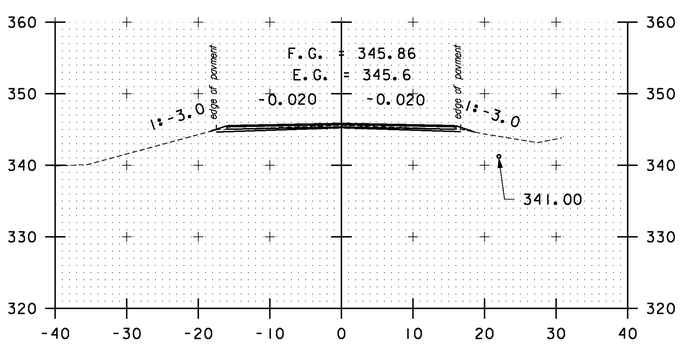
239+50



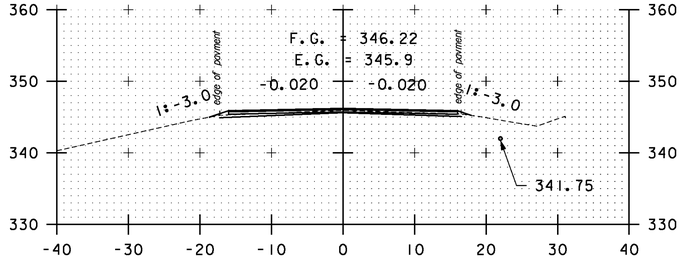
241+00



237+50



239+00



240+50

STA. 237+50 TO STA. 241+50

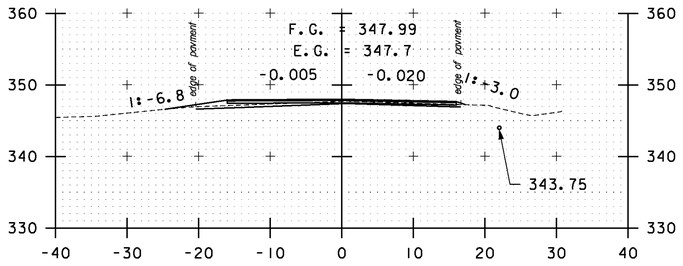
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 33

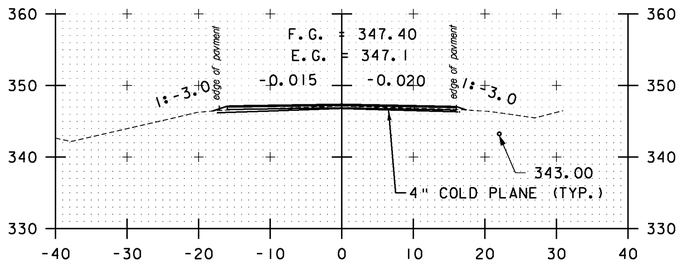
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_159.1

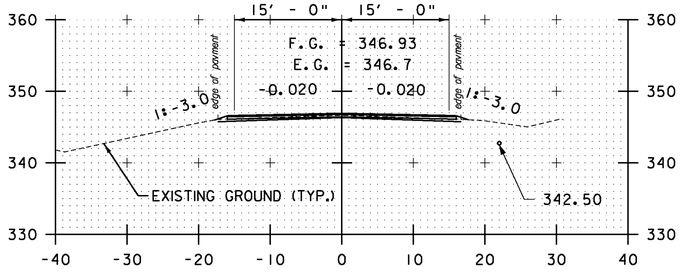
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 159 OF 217



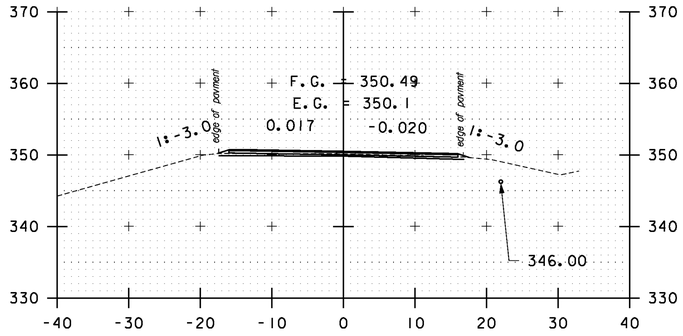
DRIVE LT
243+00



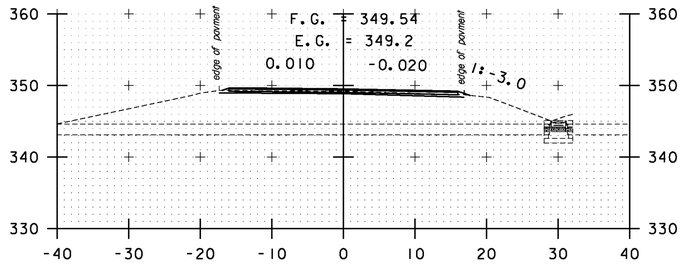
242+50



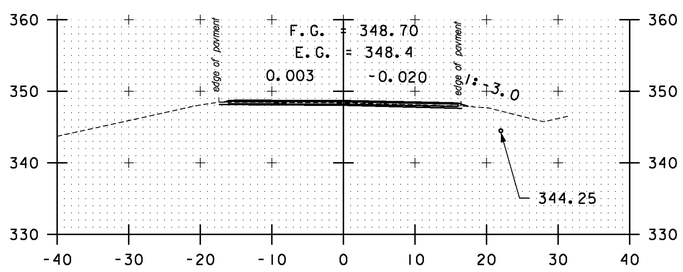
242+00



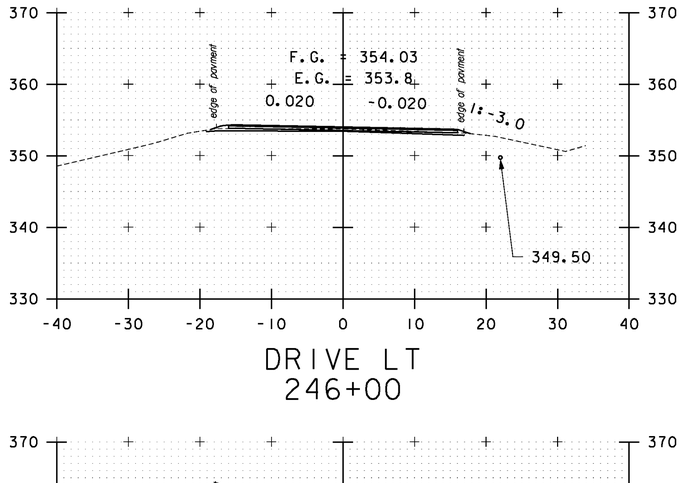
244+50



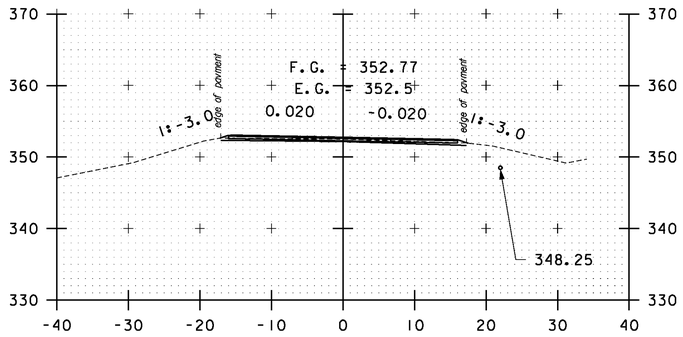
244+00



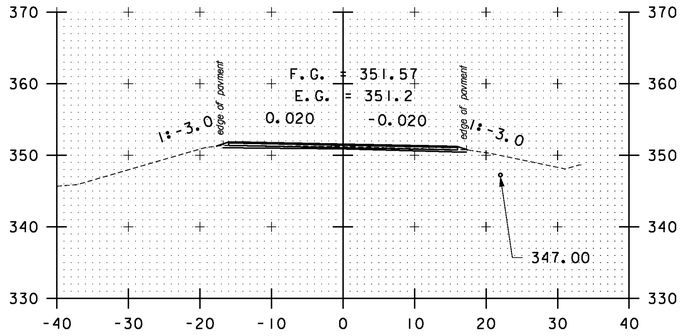
243+50



DRIVE LT
246+00



245+50



245+00

STA. 242+00 TO STA. 246+00

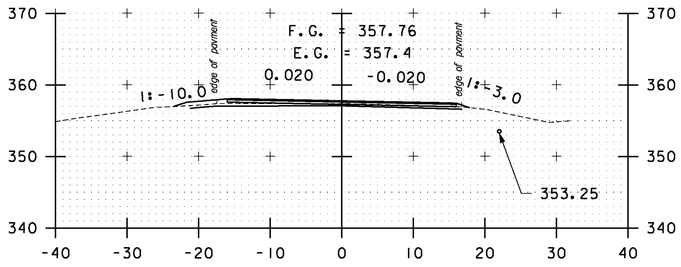
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 34

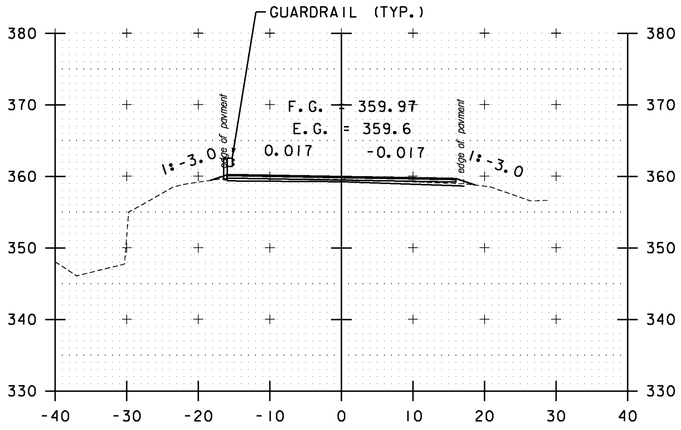
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_160.1

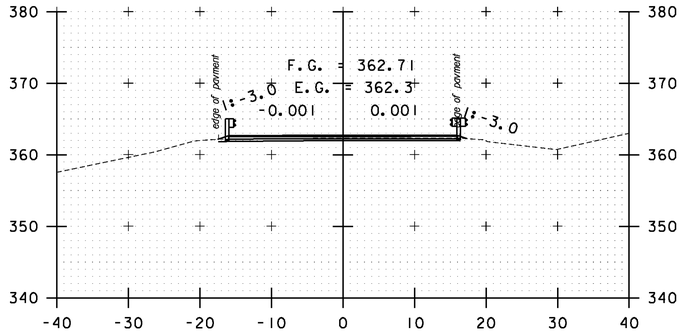
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 160 OF 217



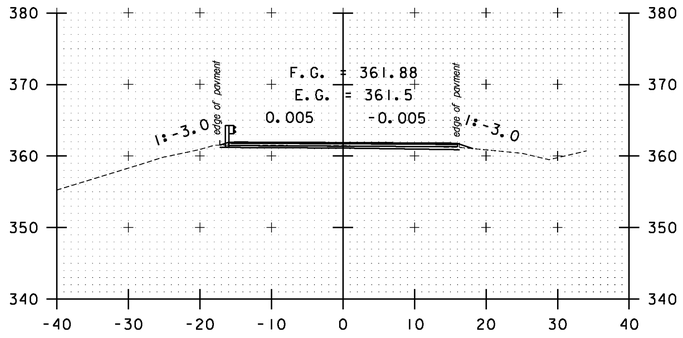
TH#6 LT
247+50



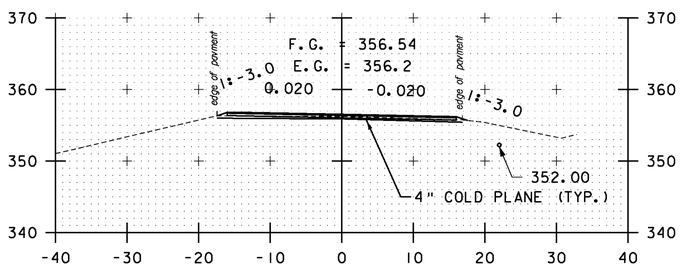
248+50



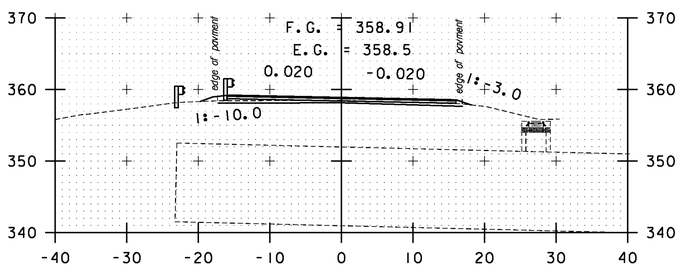
250+00



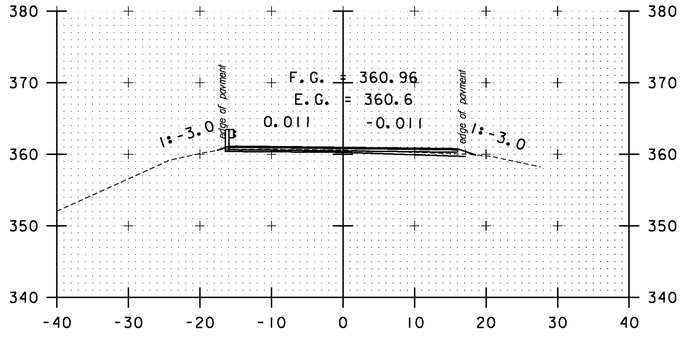
249+50



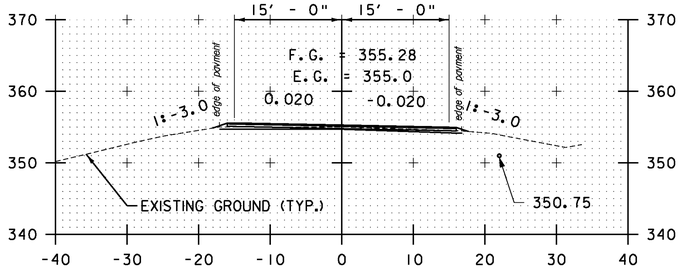
247+00



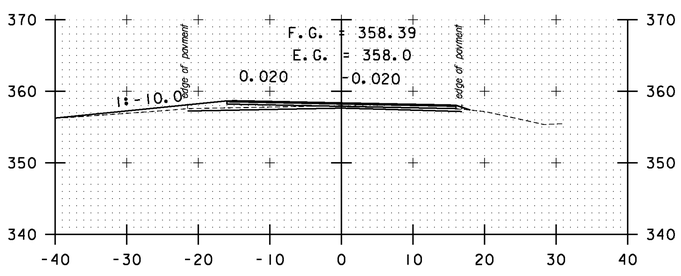
TH#6 LT
248+00



249+00



246+50



TH#6 LT
247+77

STA. 246+50 TO STA. 250+00

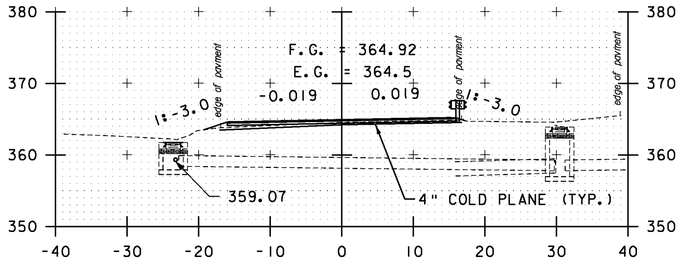
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 35

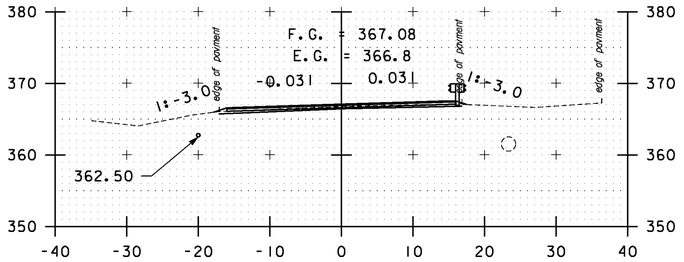
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_161.i

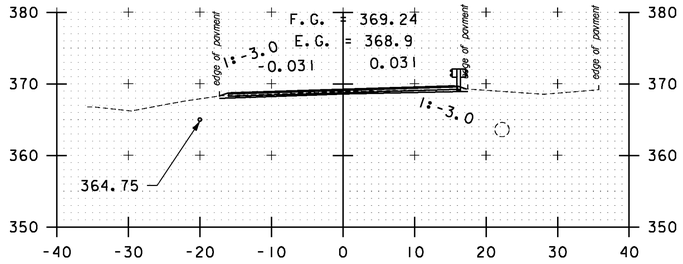
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 161 OF 217



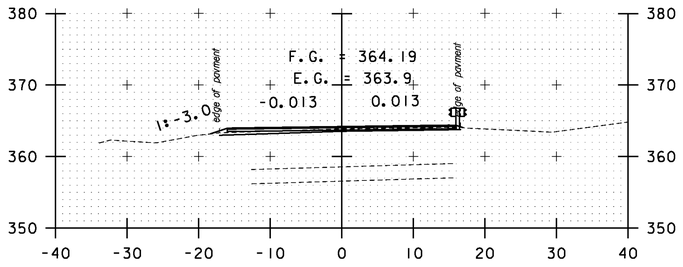
251+50



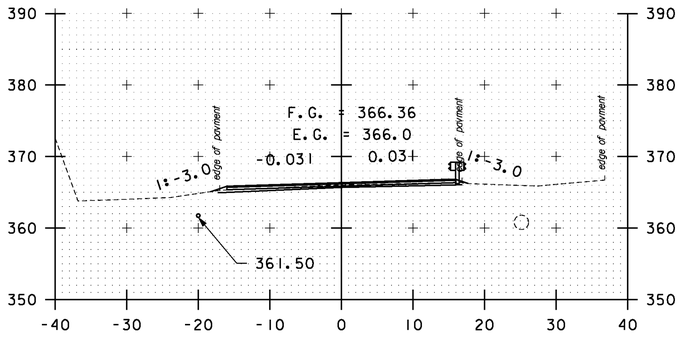
253+00



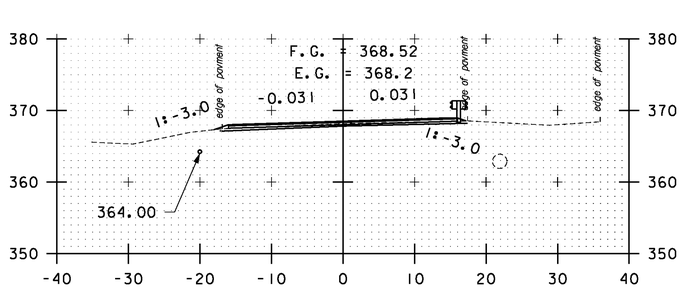
254+50



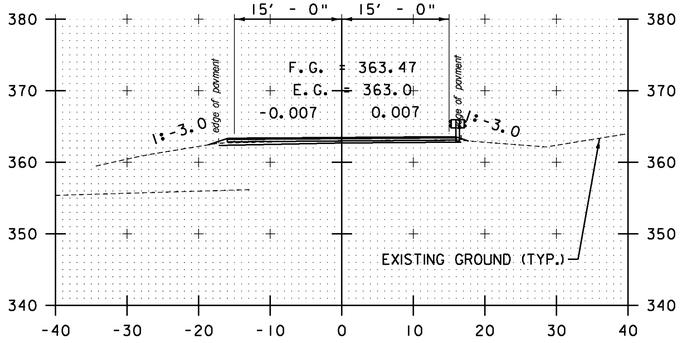
251+00



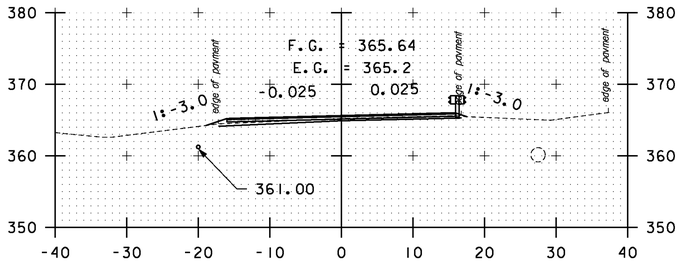
252+50



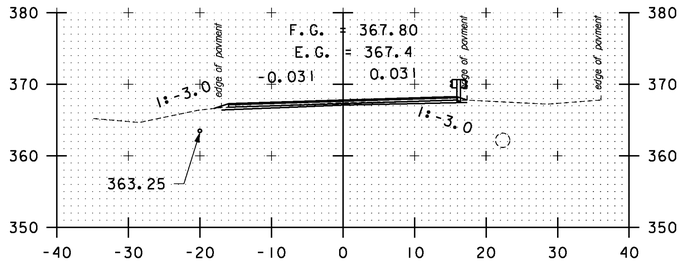
254+00



250+50



252+00



253+50

STA. 250+50 TO STA. 254+50

SCALE 1" = 10'-0

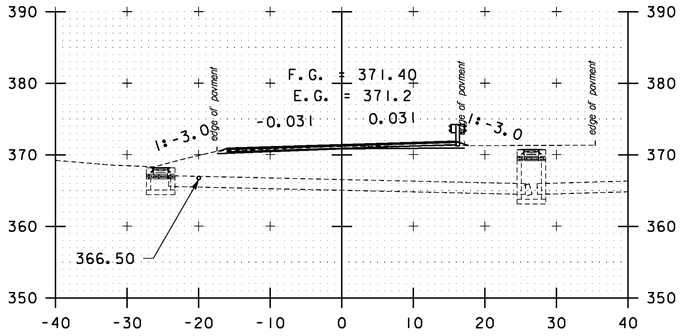
10 0 10

CROSS SECTION SHEET 36

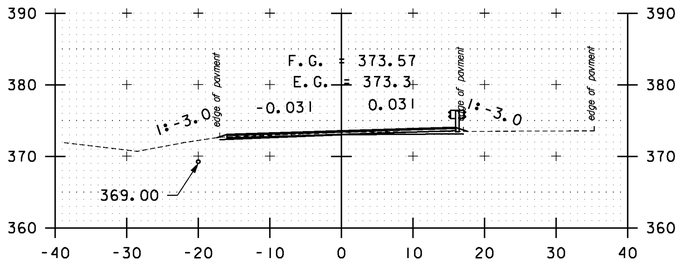
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_162.1

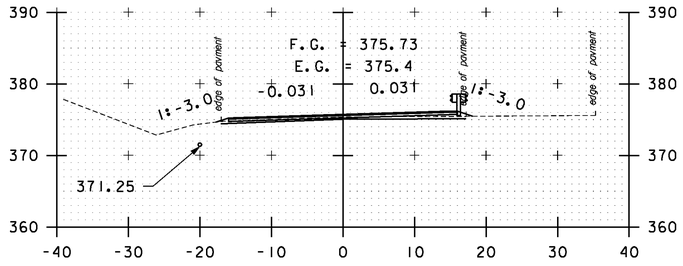
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 162 OF 217



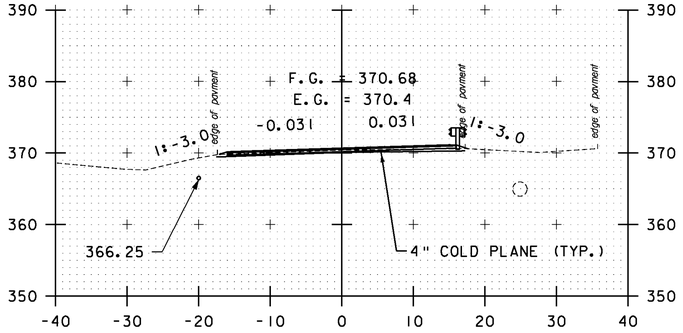
256+00



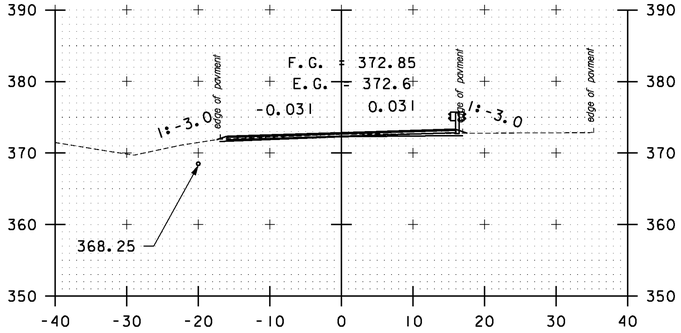
257+50



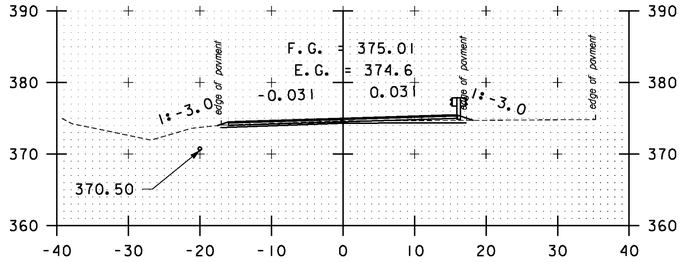
259+00



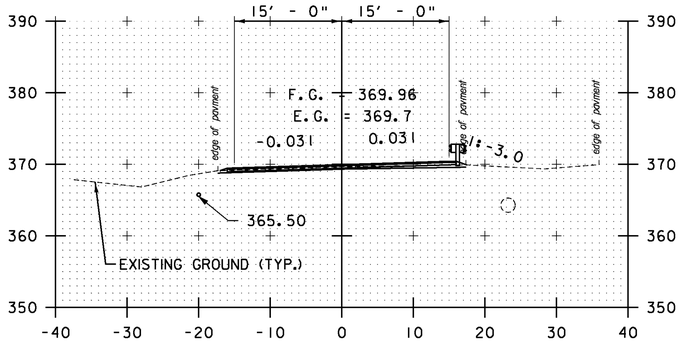
255+50



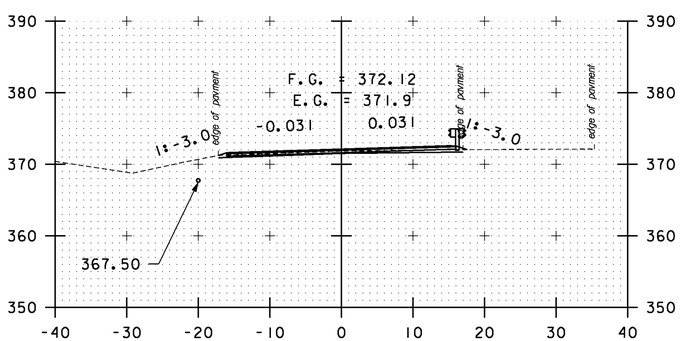
257+00



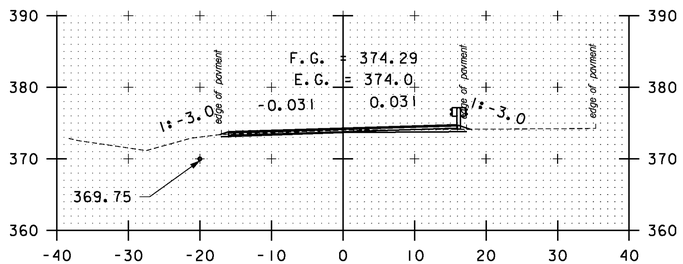
258+50



255+00



256+50



258+00

STA. 255+00 TO STA. 259+00

SCALE 1" = 10'-0

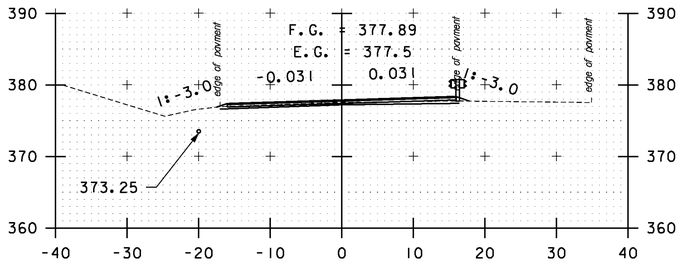
10 0 10

CROSS SECTION SHEET 37

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

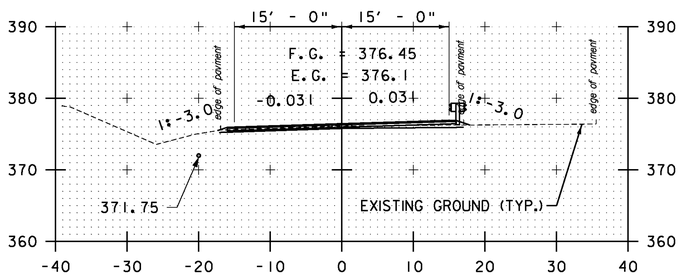
FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_163.1

PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 163 OF 217

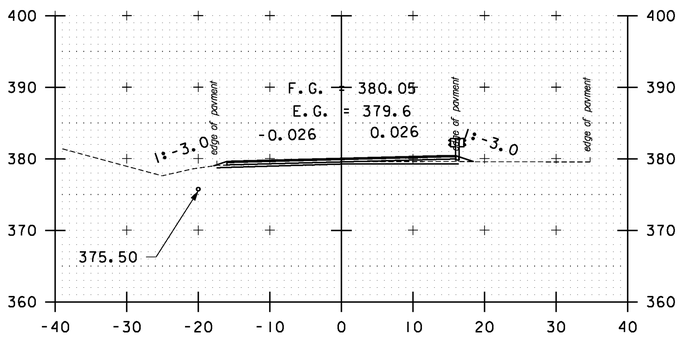


260+50

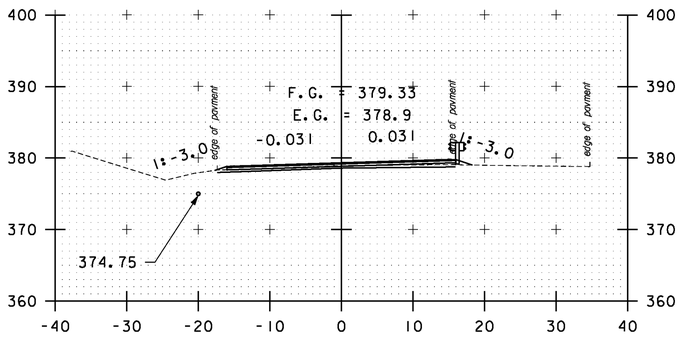
260+00



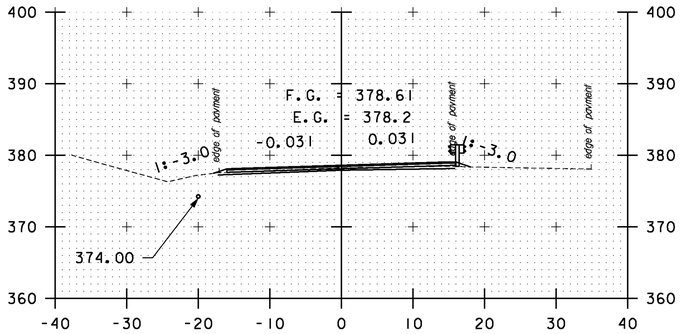
259+50



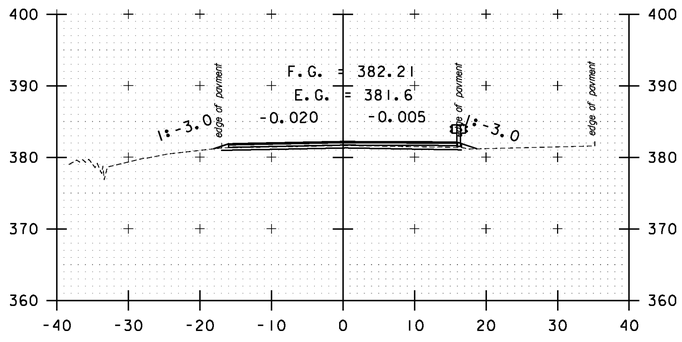
262+00



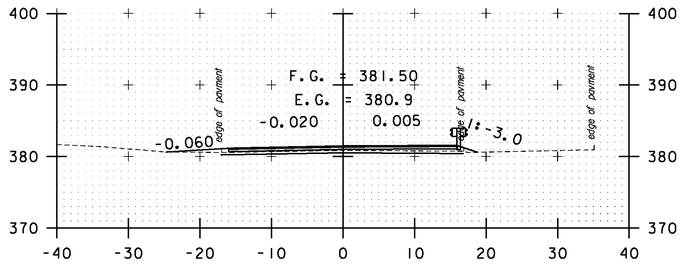
261+50



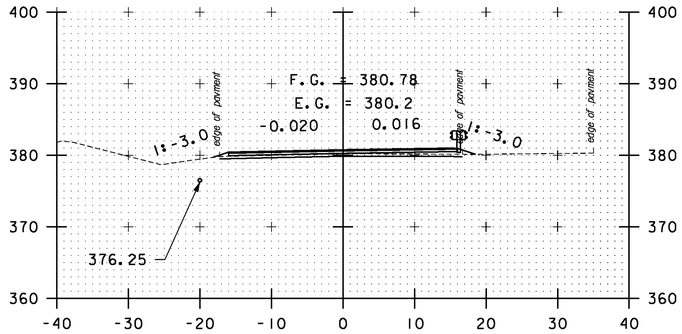
261+00



263+50



DRIVE LT
263+00



262+50

STA. 259+50 TO STA. 263+50

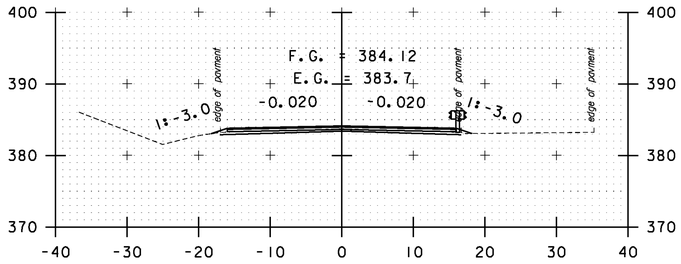
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 38

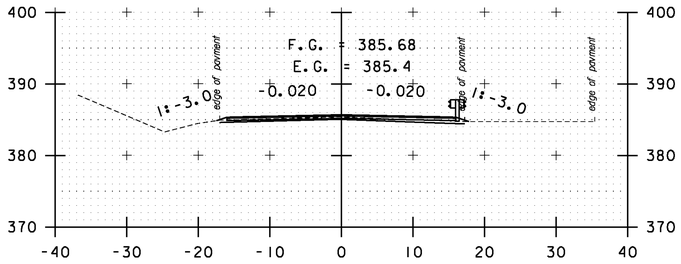
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_164.1

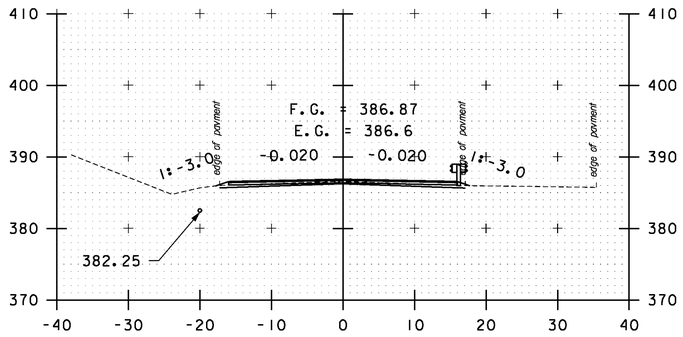
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 164 OF 217



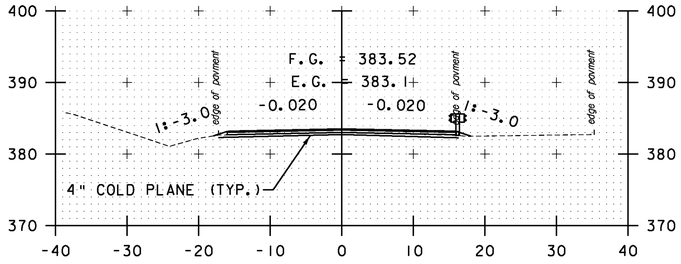
265+00



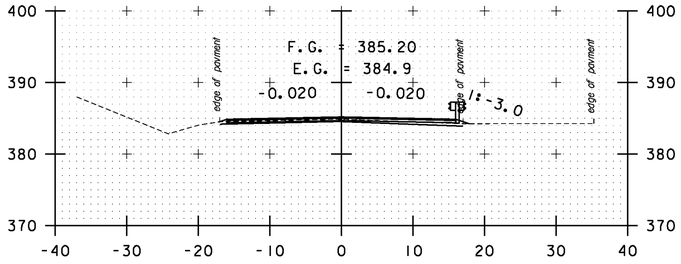
266+50



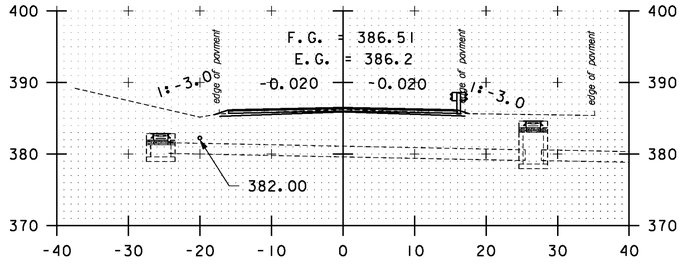
268+00



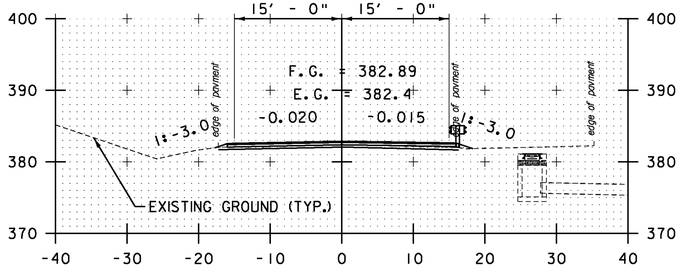
264+50



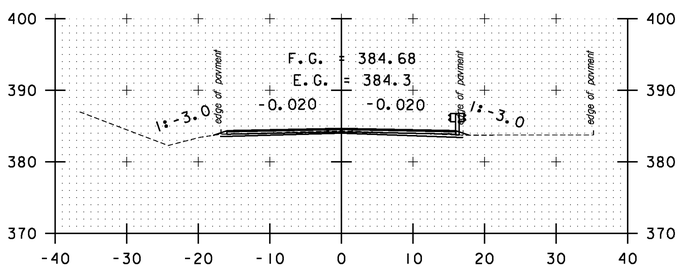
266+00



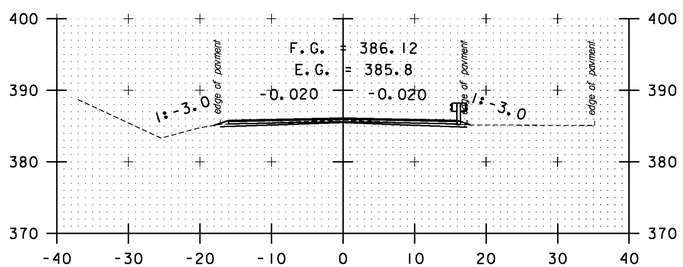
267+50



264+00



265+50



267+00

STA. 264+00 TO STA. 268+00

SCALE 1" = 10'-0

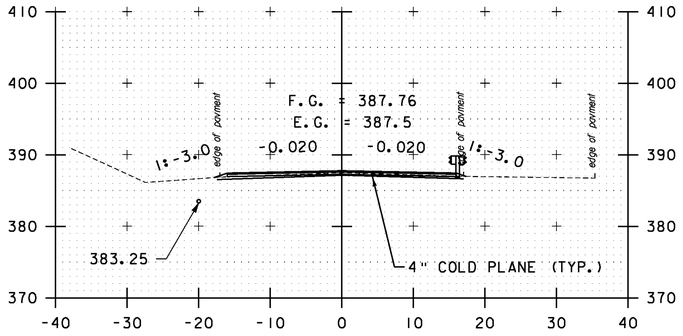
10 0 10

CROSS SECTION SHEET 39

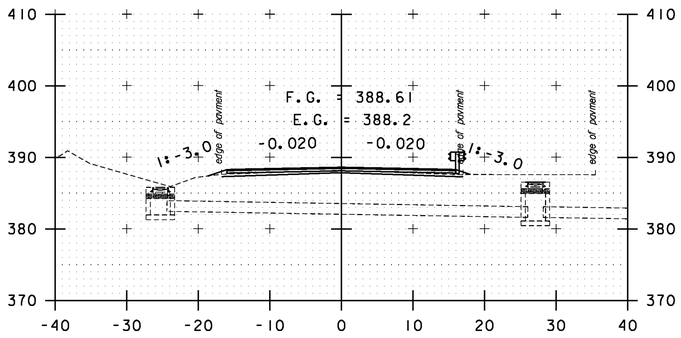
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_165.1

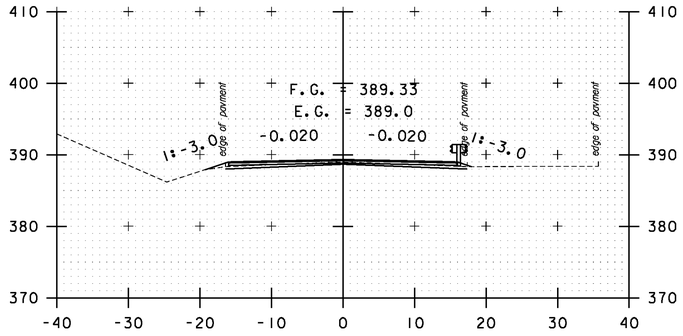
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 165 OF 217



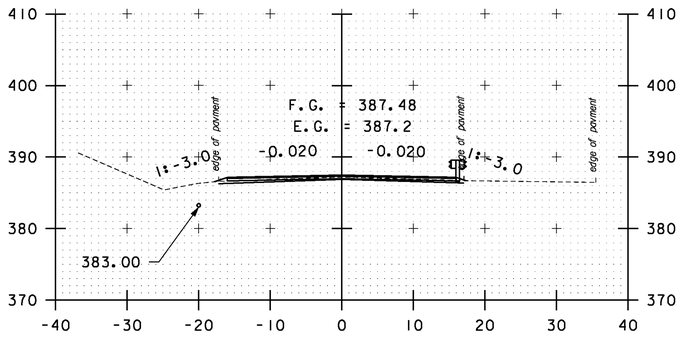
269+50



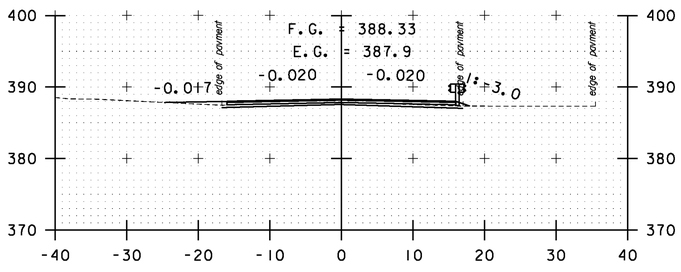
271+00



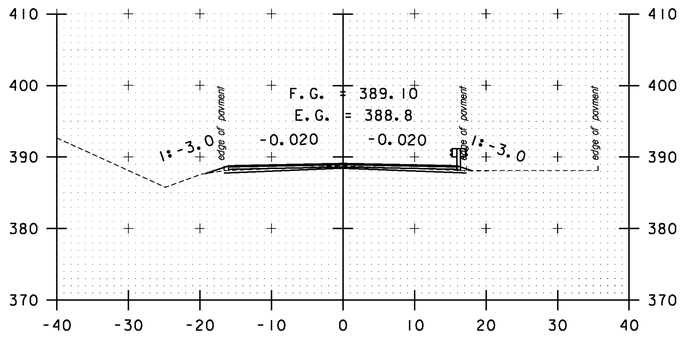
272+50



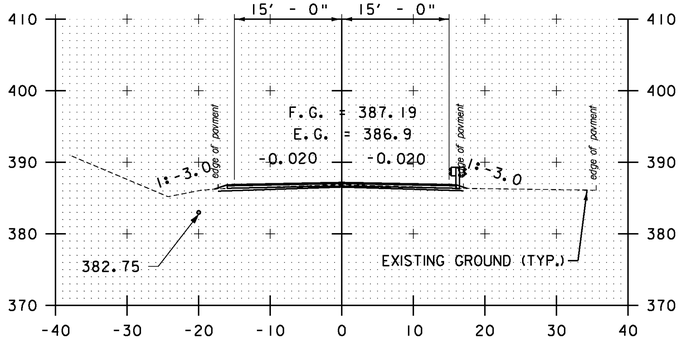
269+00



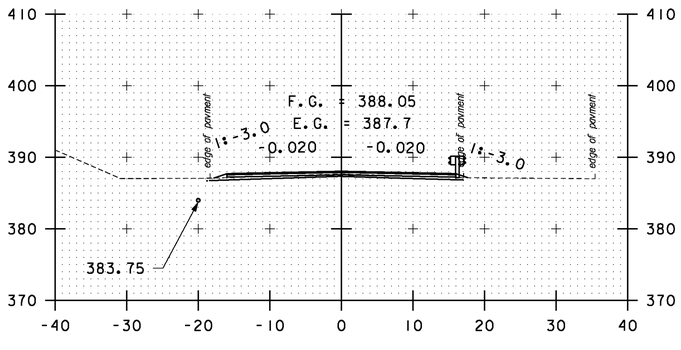
DRIVE LT
270+50



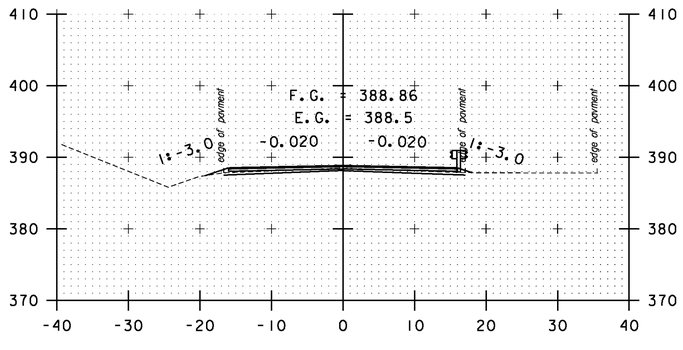
272+00



268+50



270+00



271+50

STA. 268+50 TO STA. 272+50

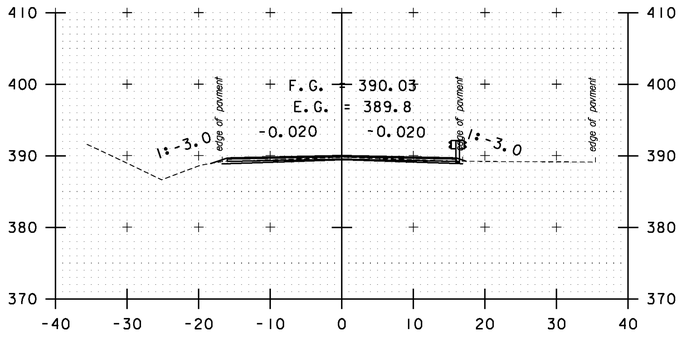
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 40

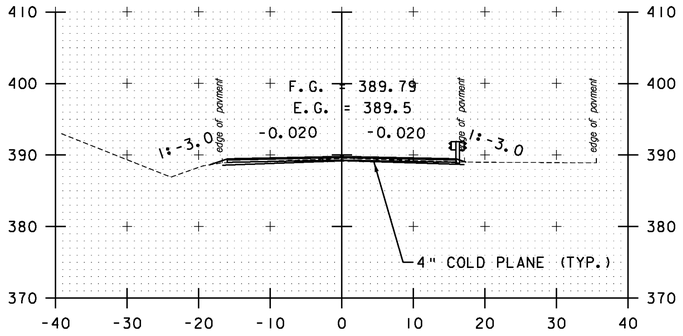
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_166.I

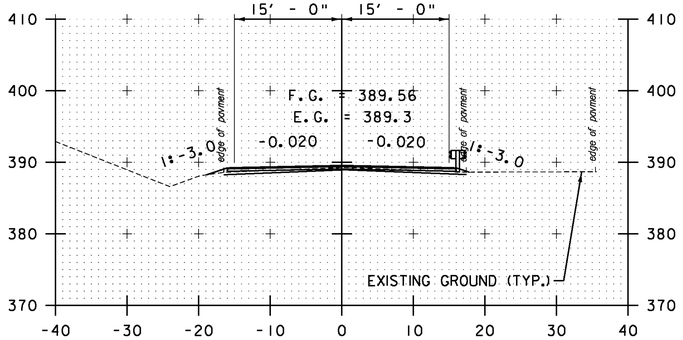
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 166 OF 217



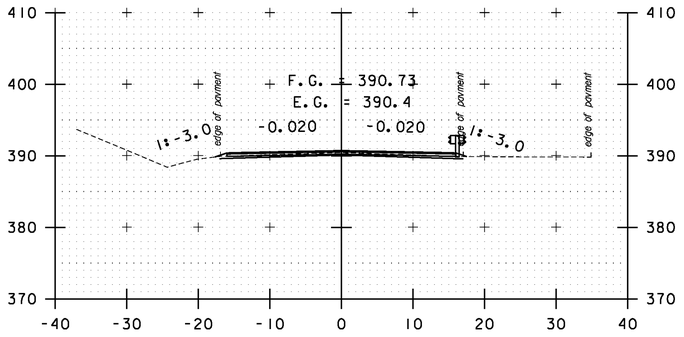
274+00



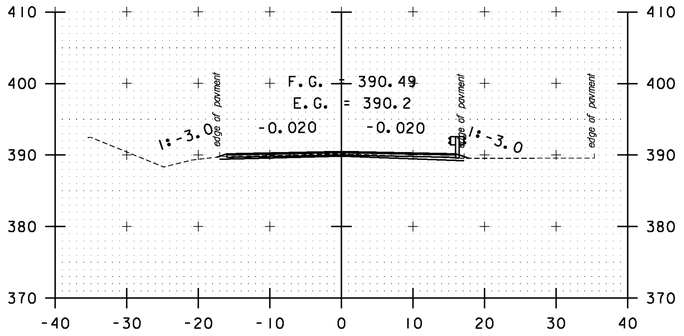
273+50



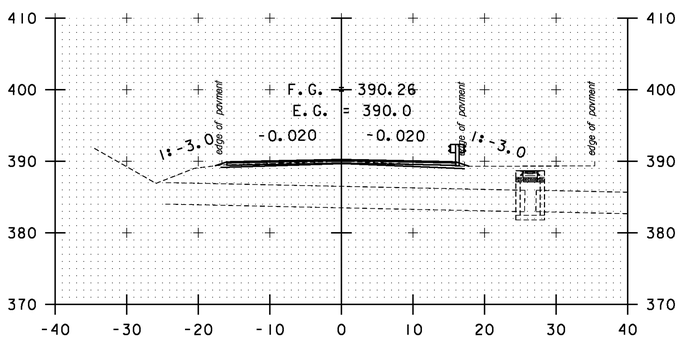
273+00



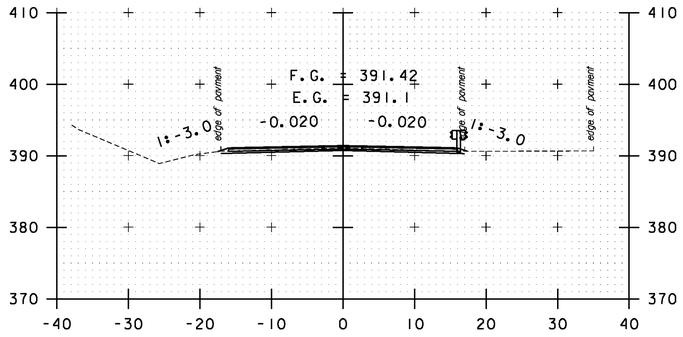
275+50



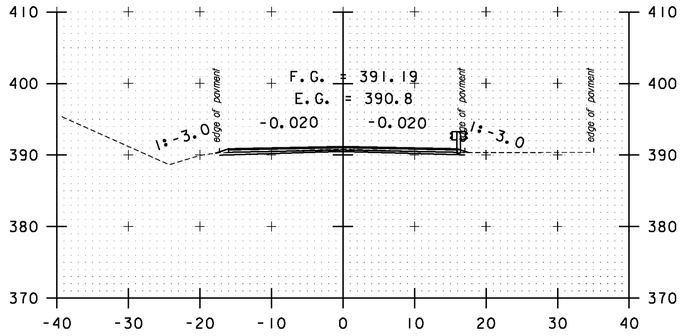
275+00



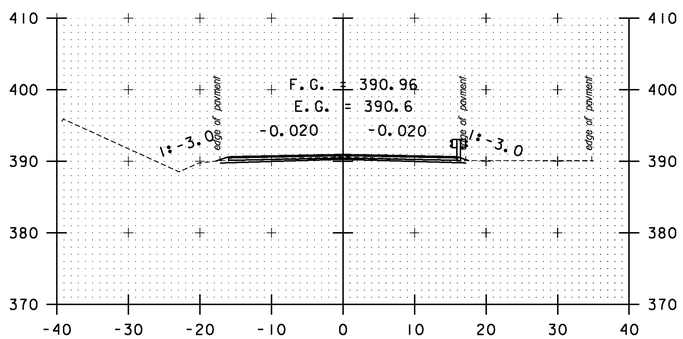
274+50



277+00



276+50



276+00

STA. 273+00 TO STA. 277+00

SCALE 1" = 10'-0

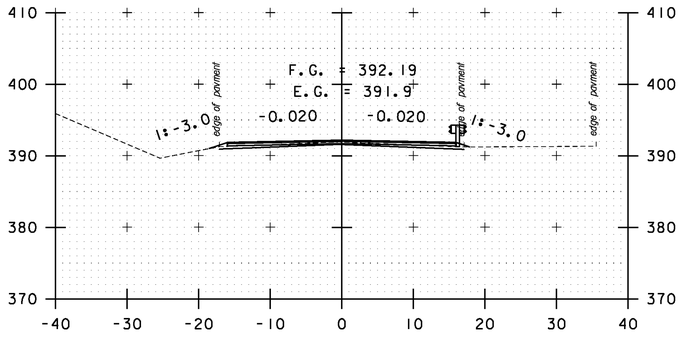
10 0 10

CROSS SECTION SHEET 41

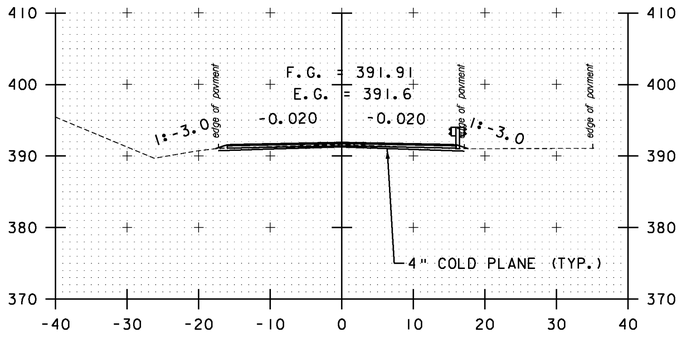
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_167.1

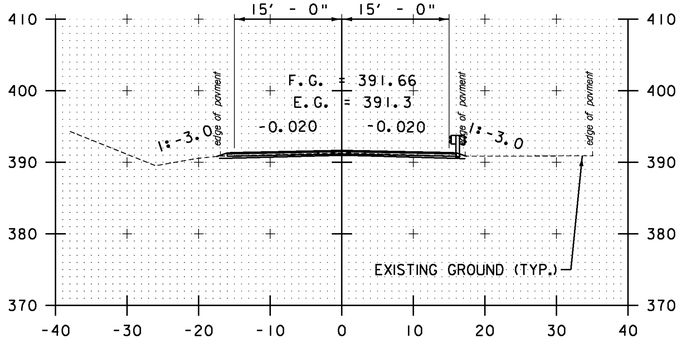
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 167 OF 217



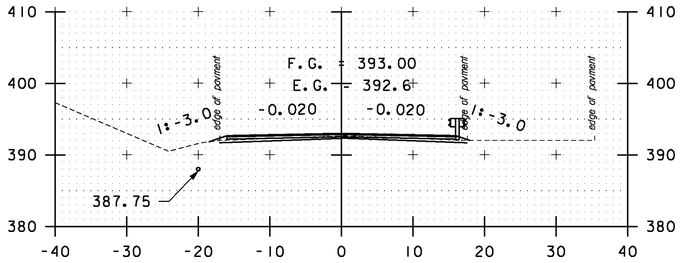
278+50



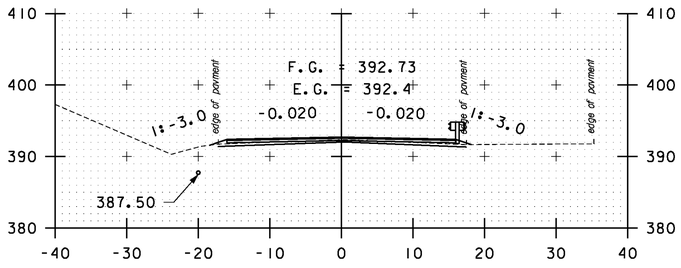
278+00



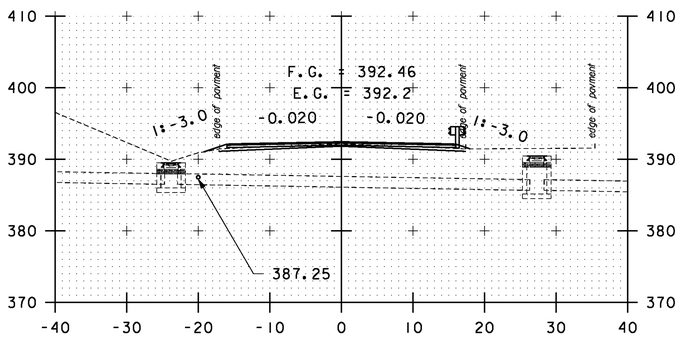
277+50



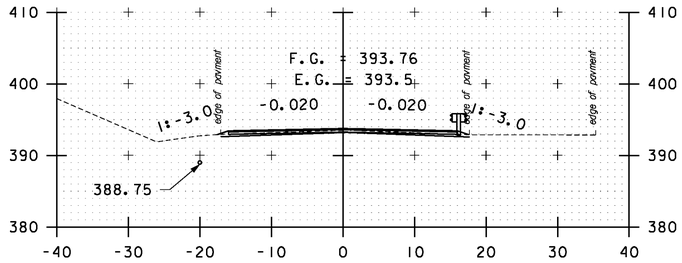
280+00



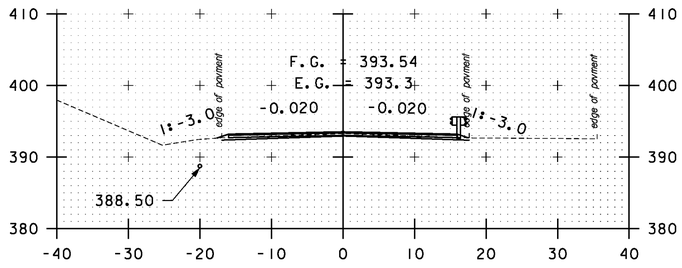
279+50



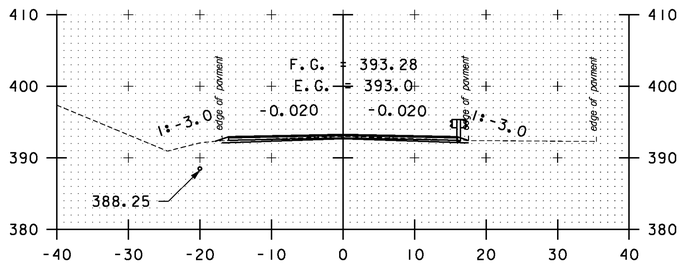
279+00



281+50



281+00



280+50

STA. 277+50 TO STA. 281+50

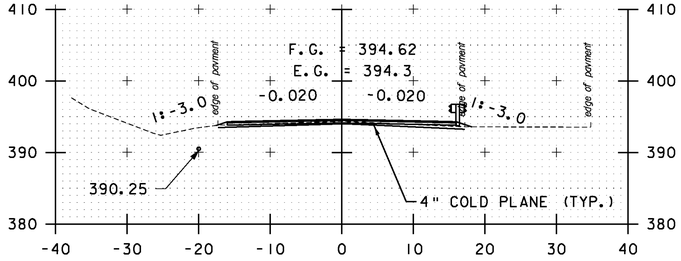
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 42

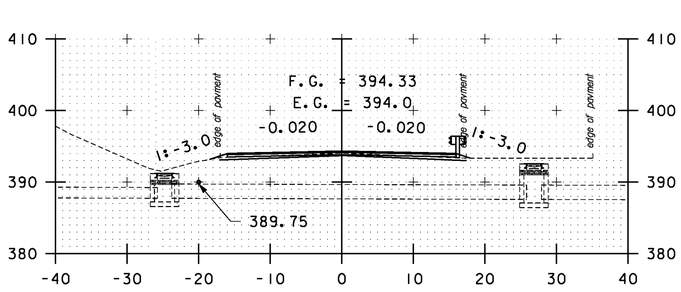
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_168.1

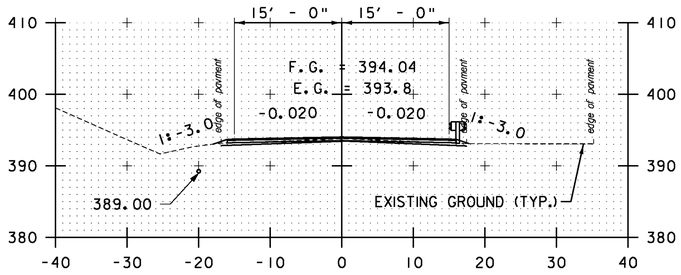
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 168 OF 217



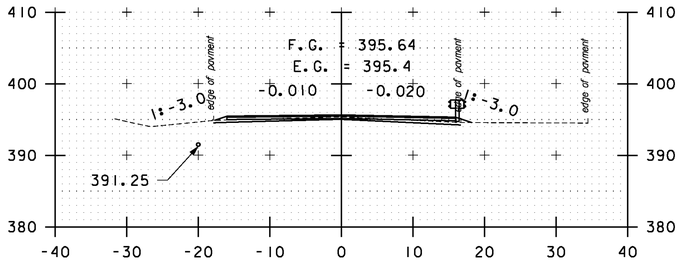
283+00



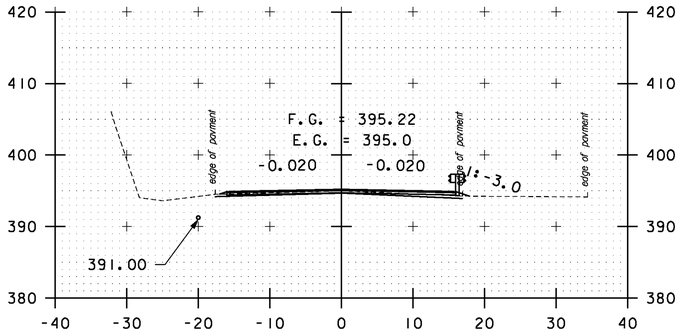
282+50



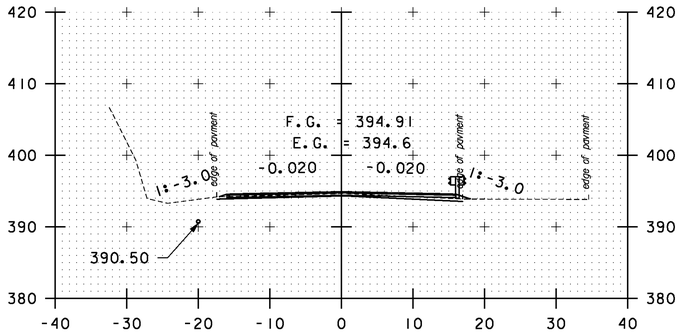
282+00



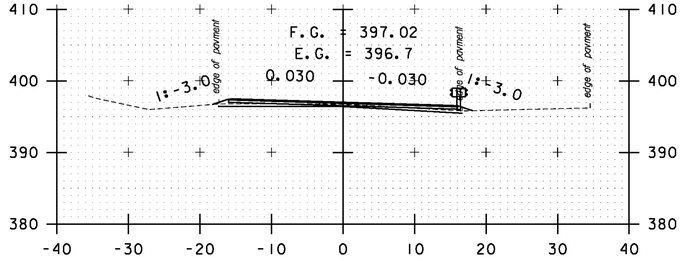
284+50



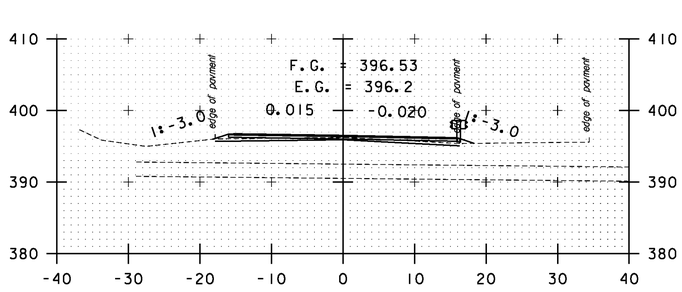
284+00



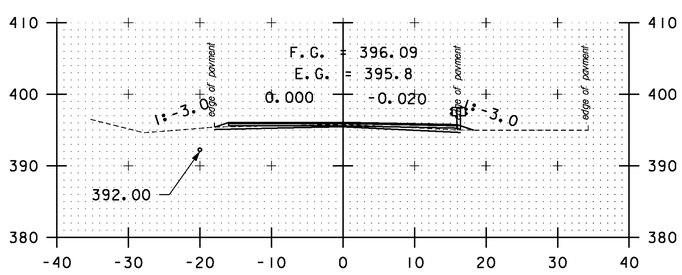
283+50



286+00



285+50



285+00

STA. 282+00 TO STA. 286+00

SCALE 1" = 10'-0

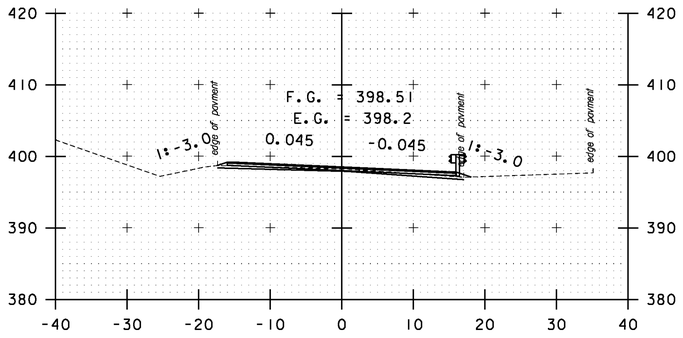
10 0 10

CROSS SECTION SHEET 43

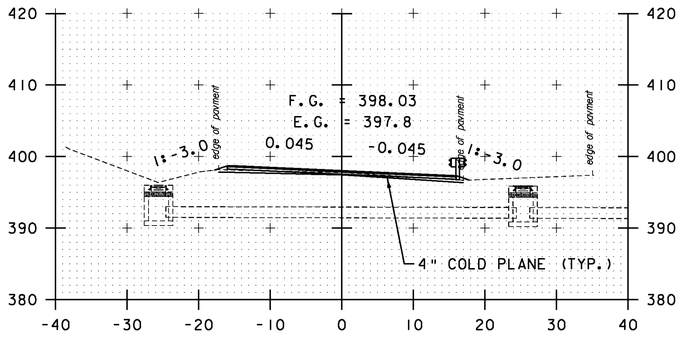
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_169.1

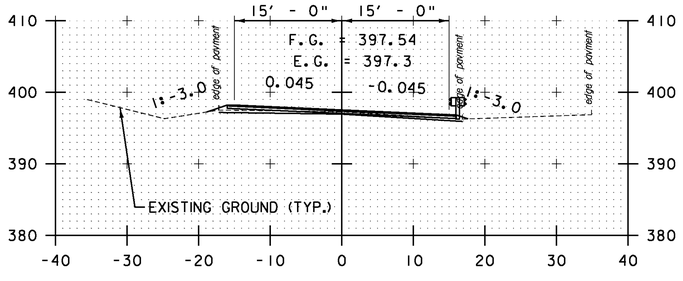
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 169 OF 217



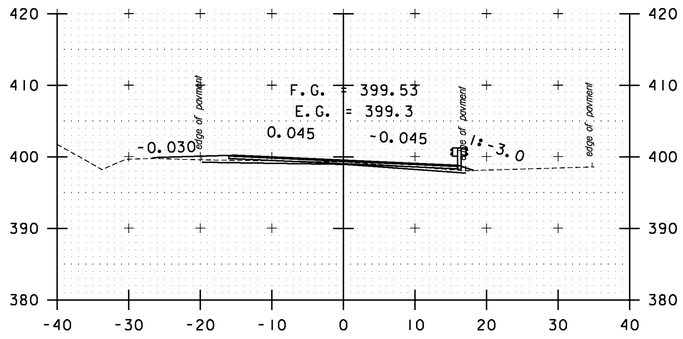
287+50



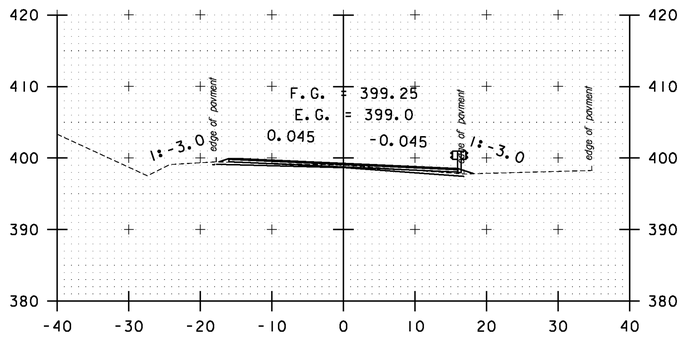
287+00



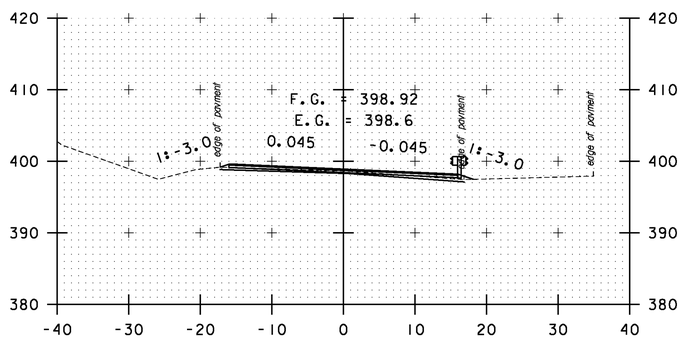
286+50



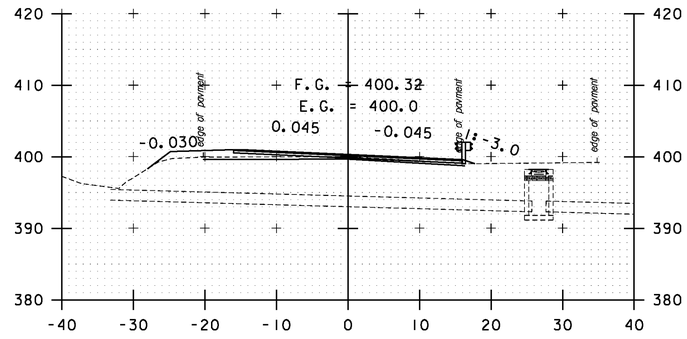
PULL OFF LT
289+00



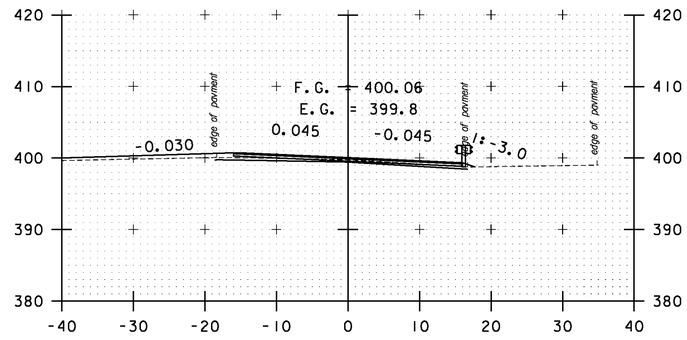
288+50



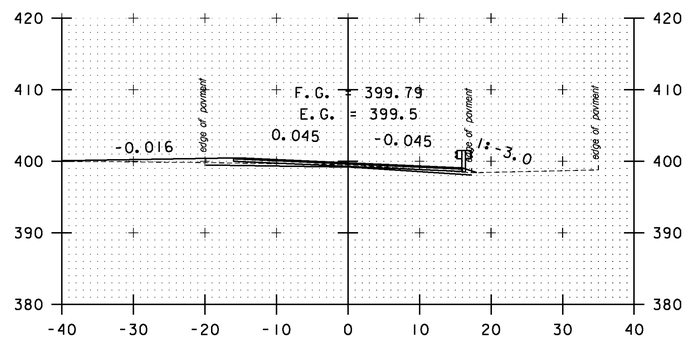
288+00



PULL OFF LT
290+50



PULL OFF LT
290+00



PULL OFF LT
289+50

STA. 286+50 TO STA. 290+50

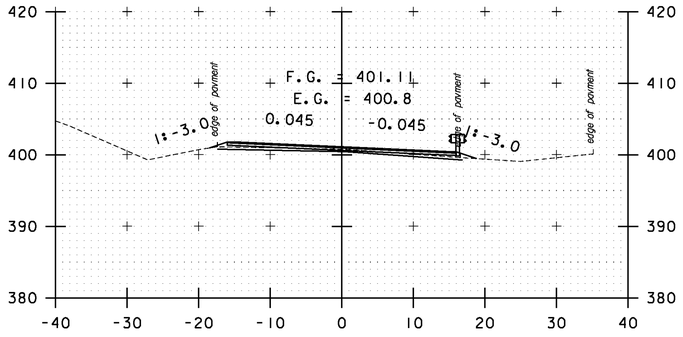
SCALE 1" = 10'-0
10 0 10

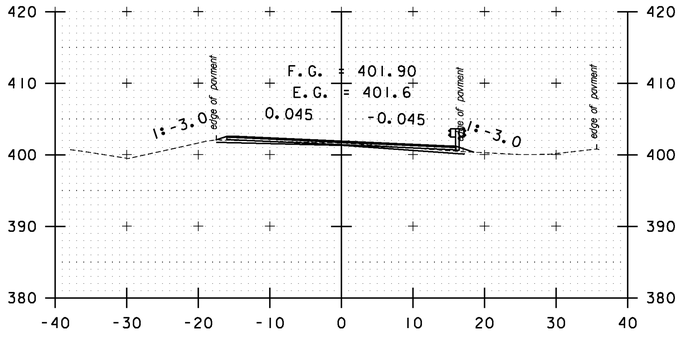
CROSS SECTION SHEET 44

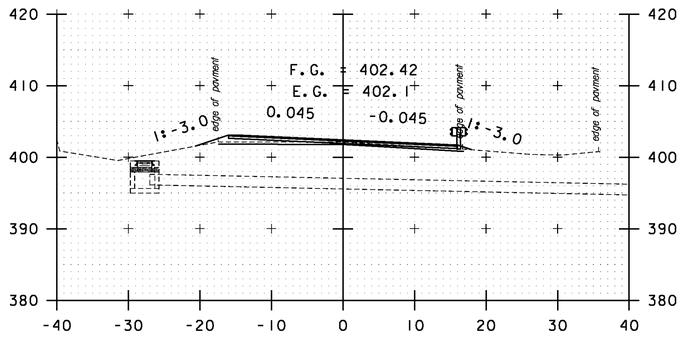
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_170.1

PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 170 OF 217

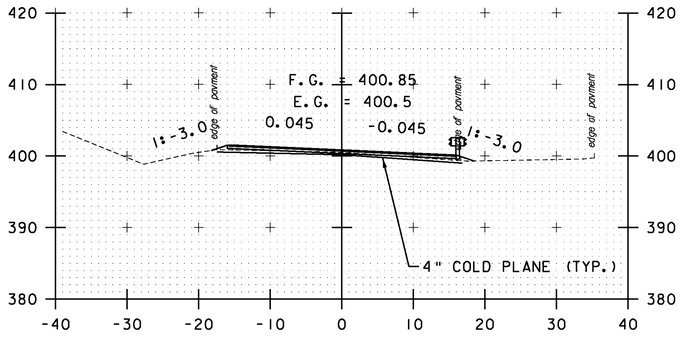




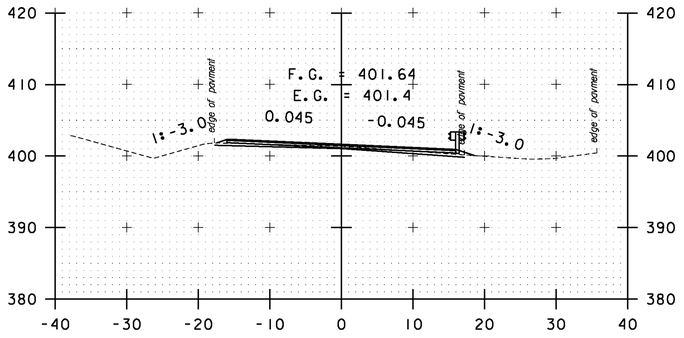


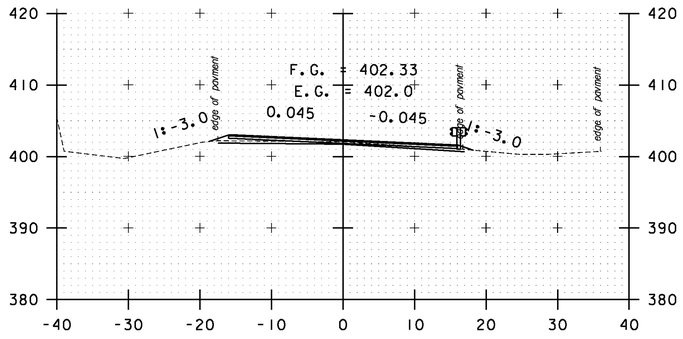
295+00

292+00



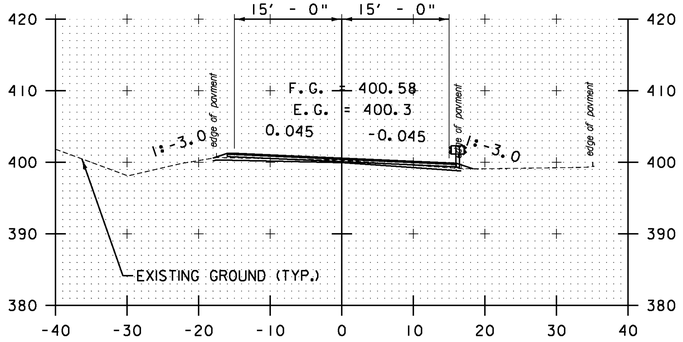
293+50



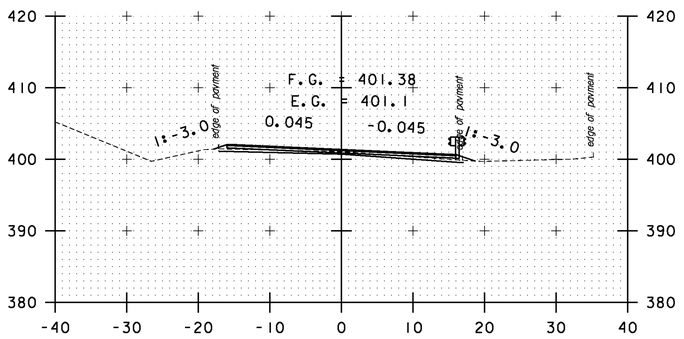


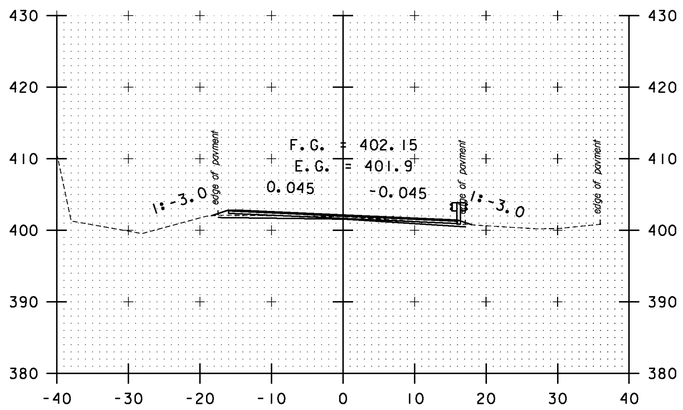
294+50

291+50



293+00





291+00

292+50

294+00

STA. 291+00 TO STA. 295+00

SCALE 1" = 10'-0

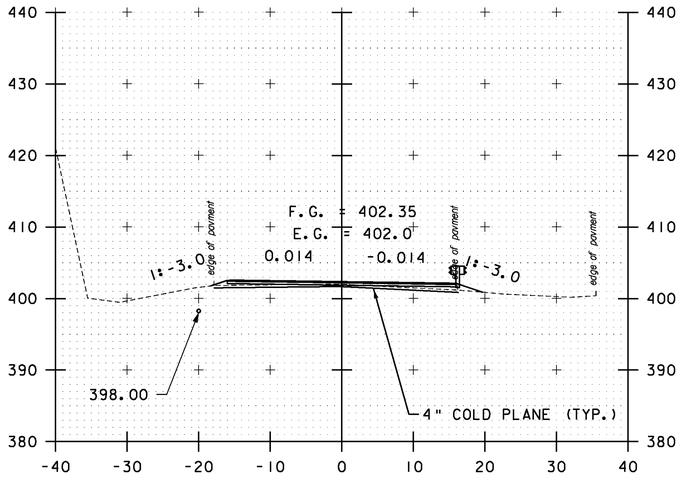
10 0 10

CROSS SECTION SHEET 45

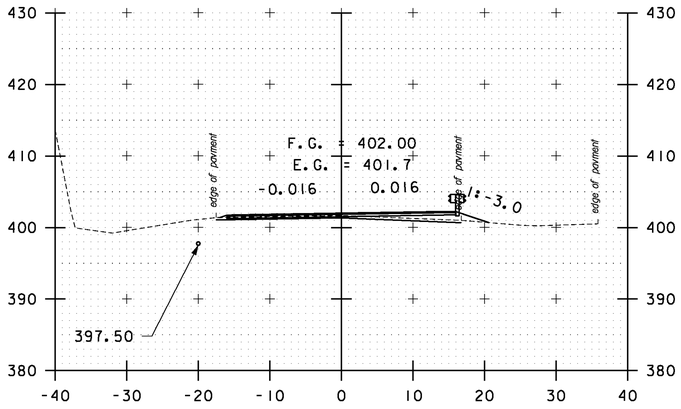
PROJECT NAME: BOTLON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_171.i

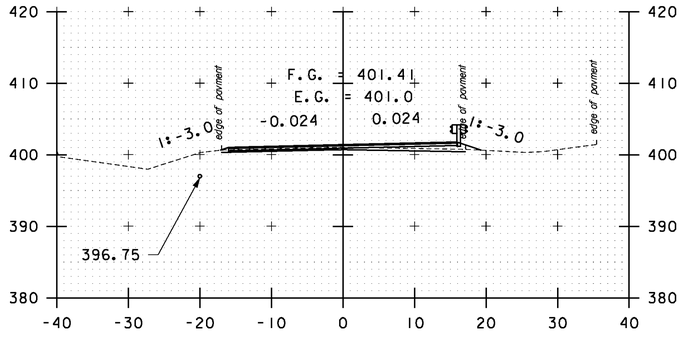
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 171 OF 217



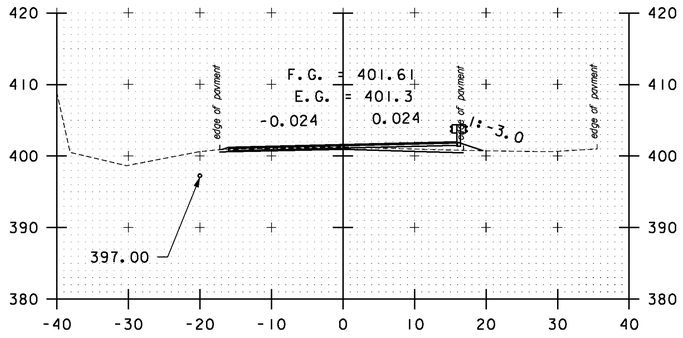
296+00



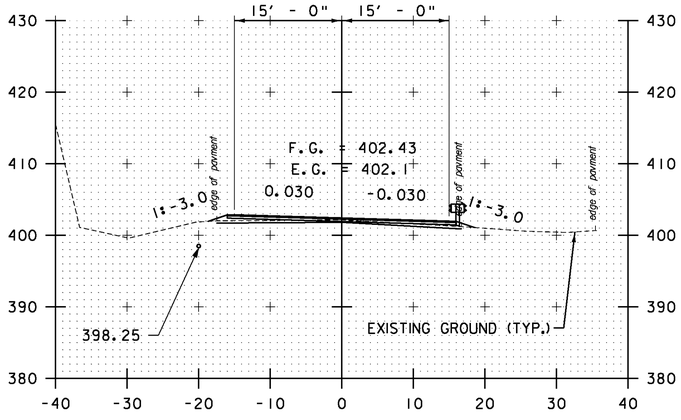
297+00



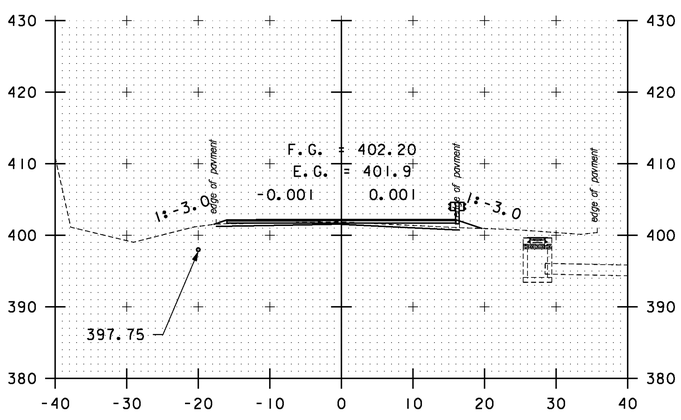
298+50



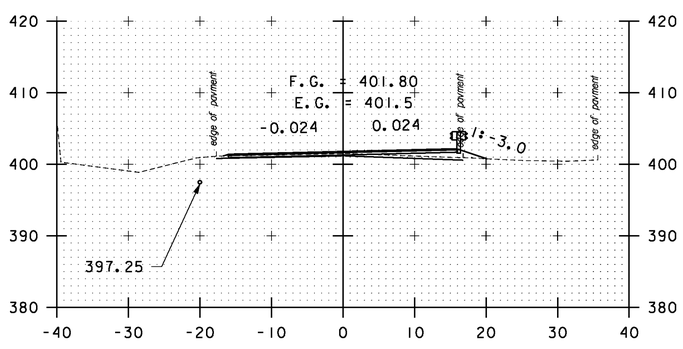
298+00



295+50



296+50



297+50

STA. 295+50 TO STA. 298+50

SCALE 1" = 10'-0

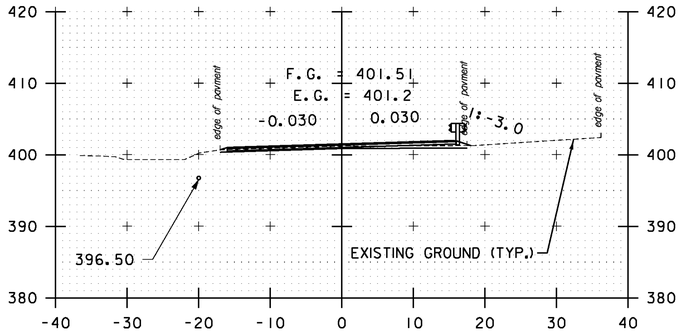
10 0 10

CROSS SECTION SHEET 46

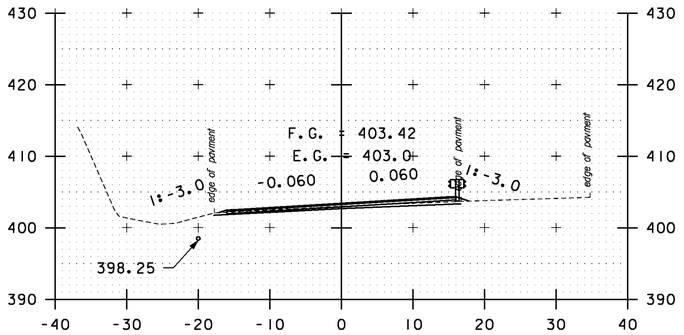
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_172.1

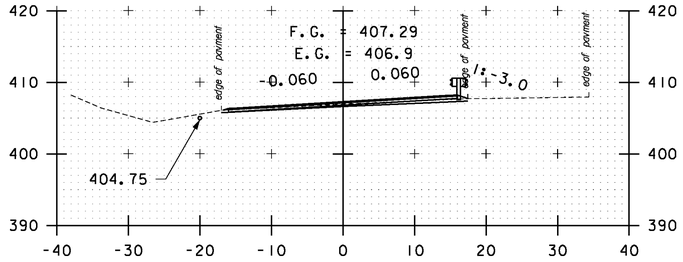
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 172 OF 217



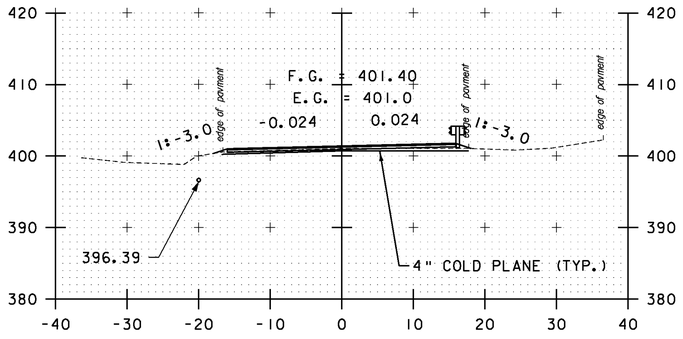
TOWN LINE / COUNTY LINE
A 0+00



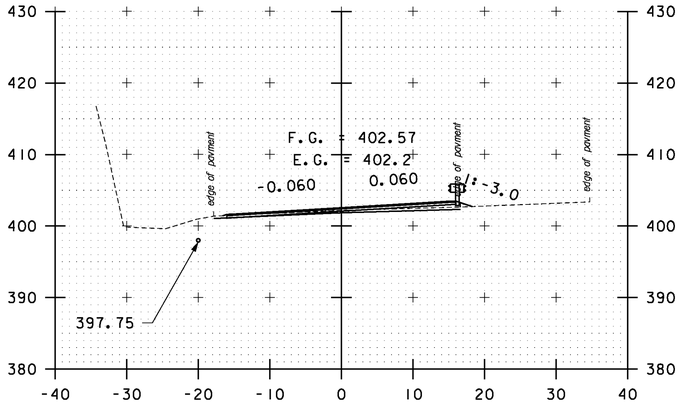
A 1+50



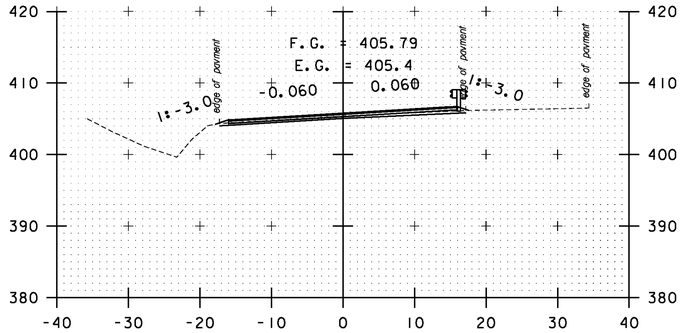
A 3+00



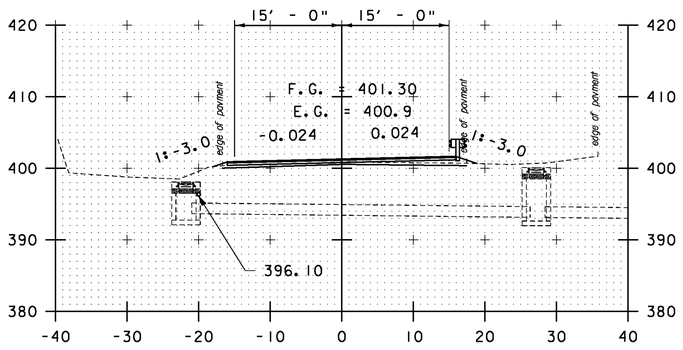
299+50



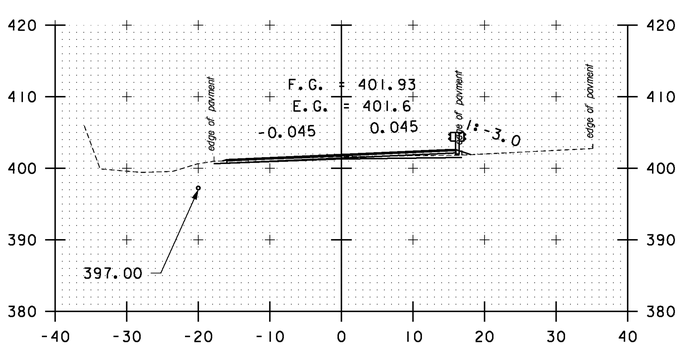
A 1+00



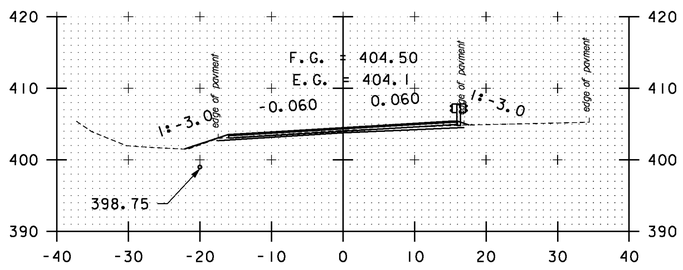
A 2+50



299+00



A 0+50



A 2+00

STA. 299+00 TO STA. A 3+00

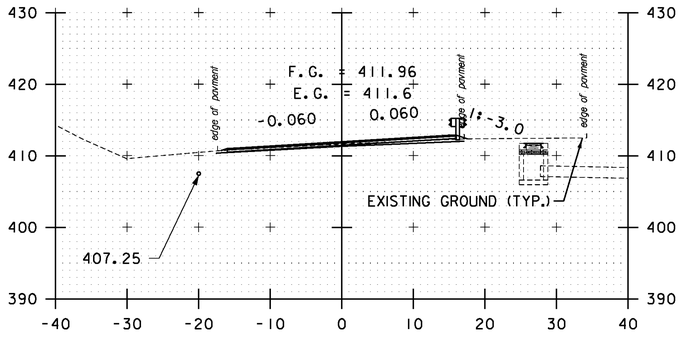
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 47

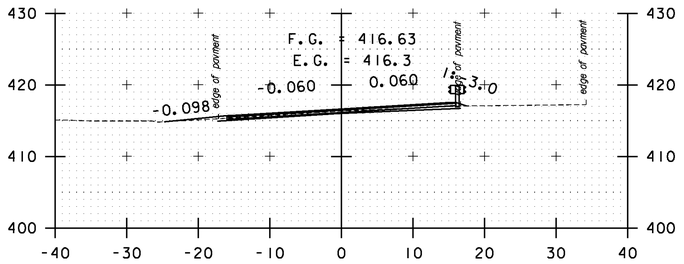
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_173.1

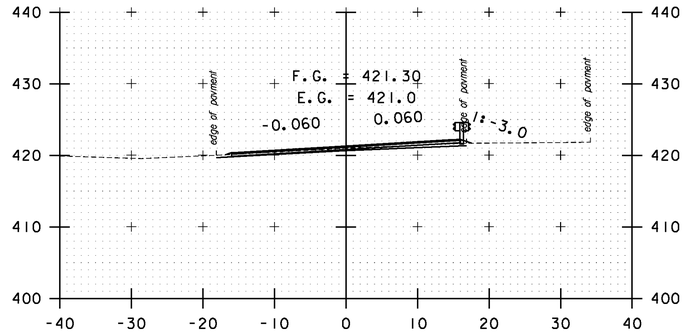
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 173 OF 217



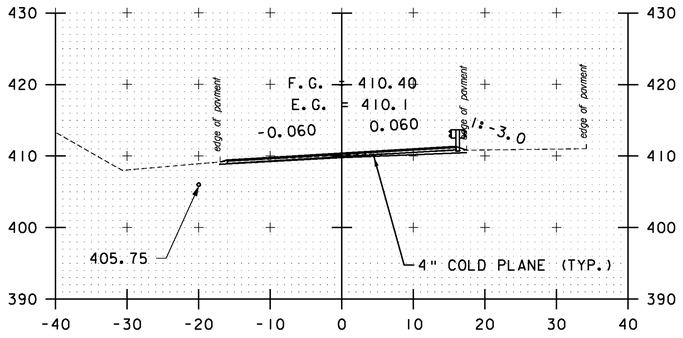
A 4+50



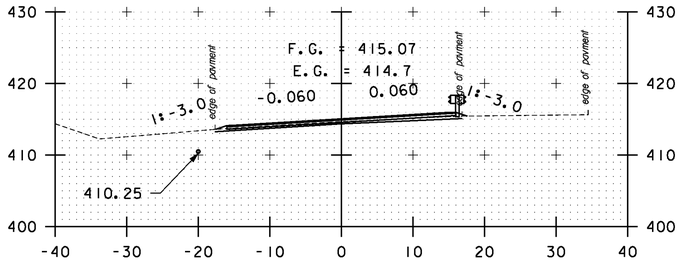
DRIVE LT
A 6+00



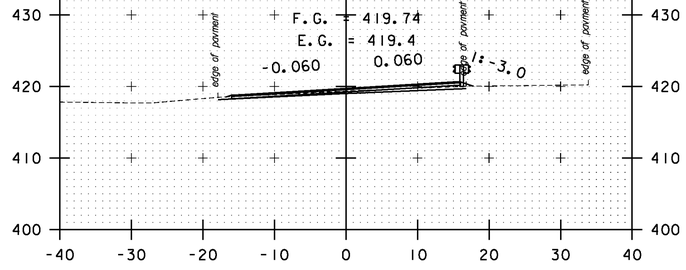
A 7+50



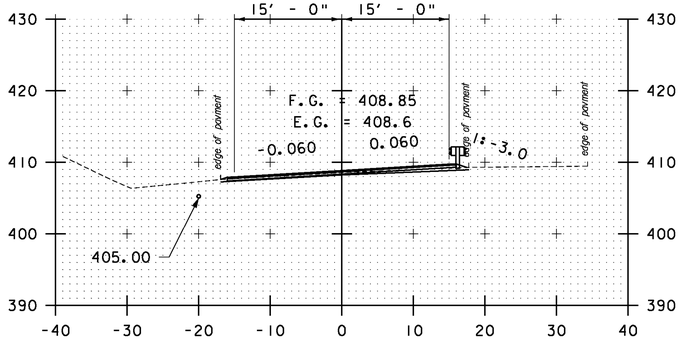
A 4+00



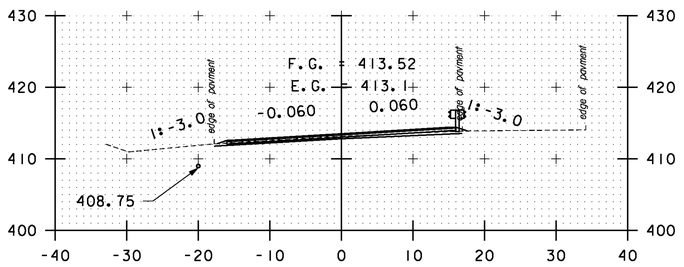
A 5+50



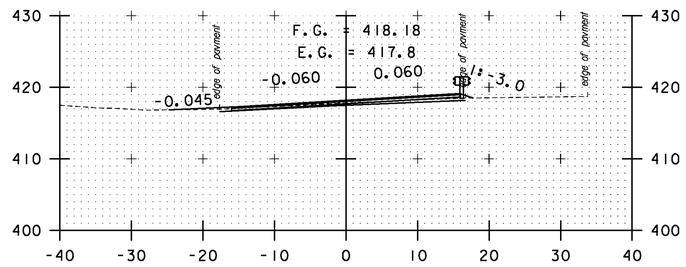
A 7+00



A 3+50



A 5+00



DRIVE LT
A 6+50

STA. A 3+50 TO STA. A 7+50

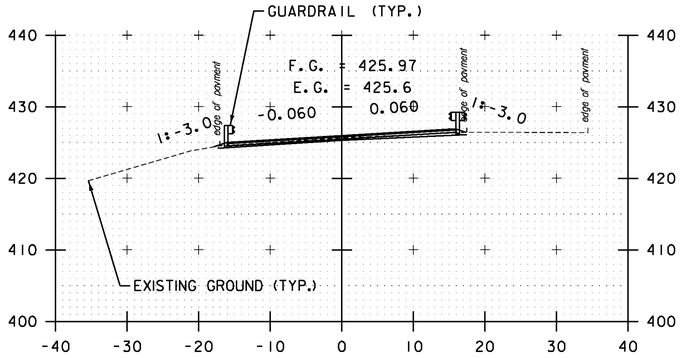
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 48

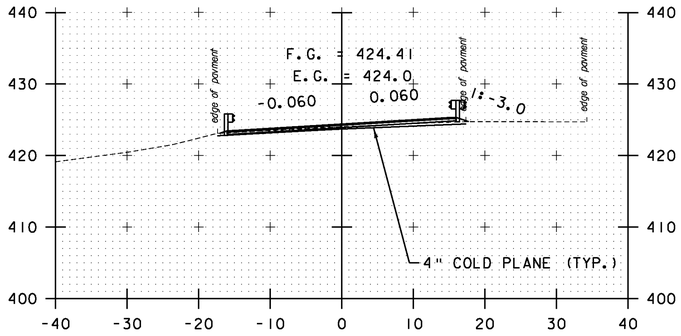
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_174.1

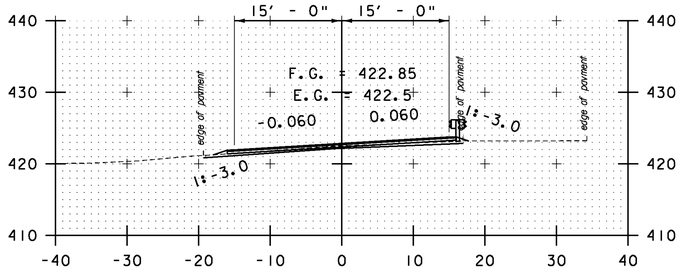
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 174 OF 217



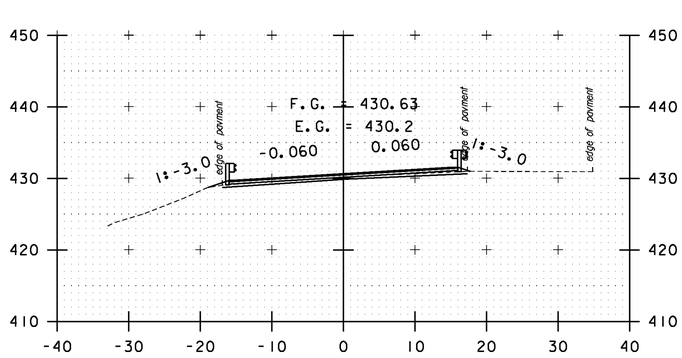
A 9+00



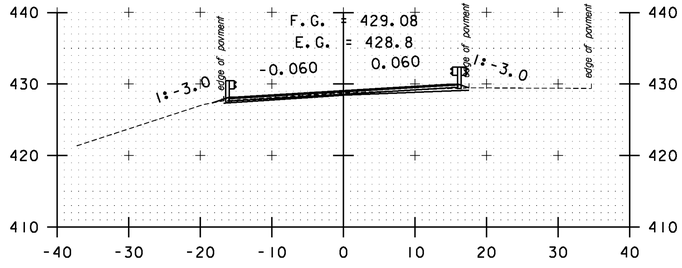
A 8+50



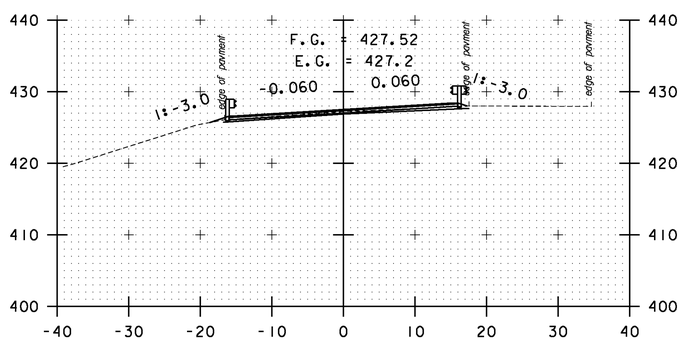
A 8+00



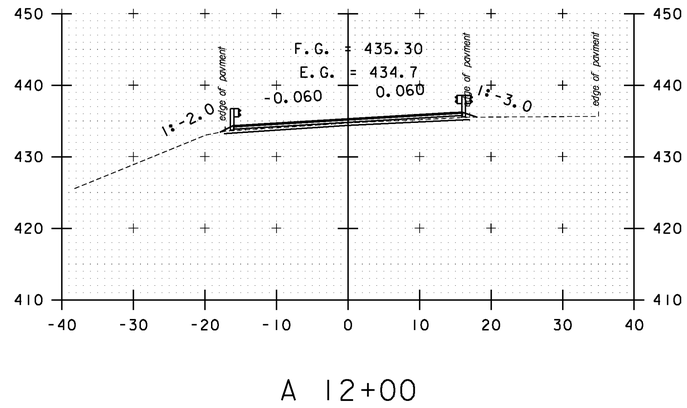
A 10+50



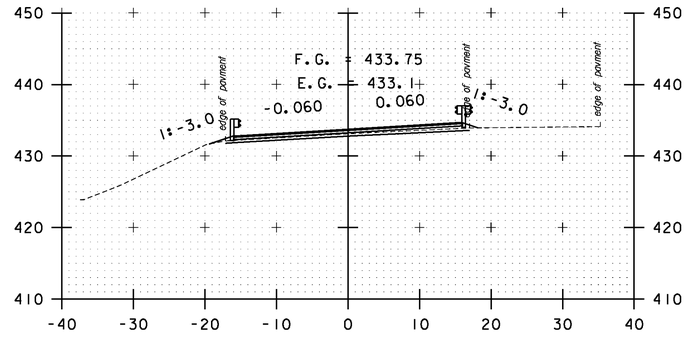
A 10+00



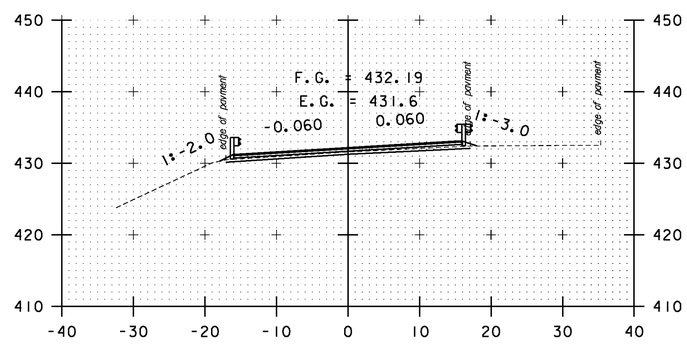
A 9+50



A 12+00



A 11+50



A 11+00

STA. A 8+00 TO STA. A 12+00

SCALE 1" = 10'-0

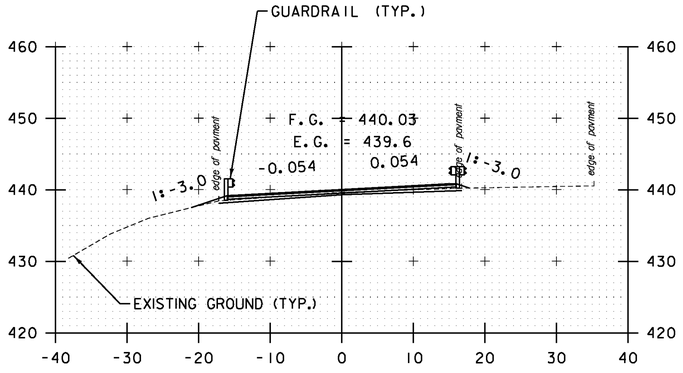
10 0 10

CROSS SECTION SHEET 49

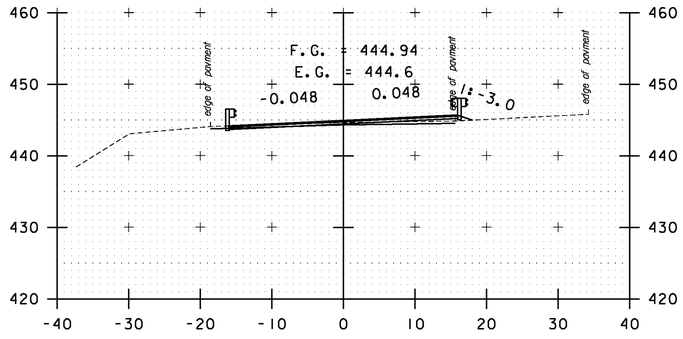
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_175.1

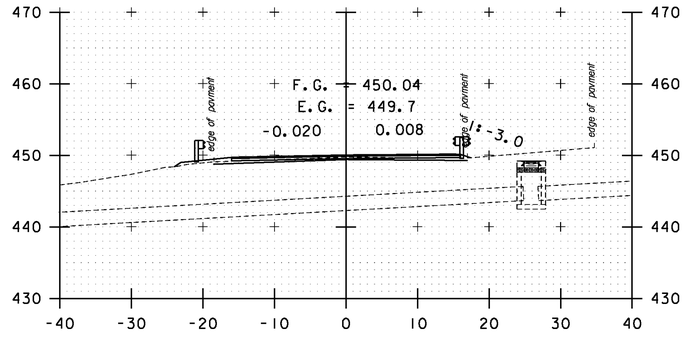
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 175 OF 217



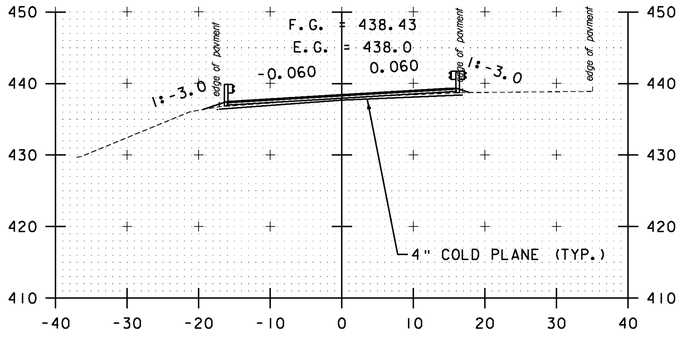
A 13+50



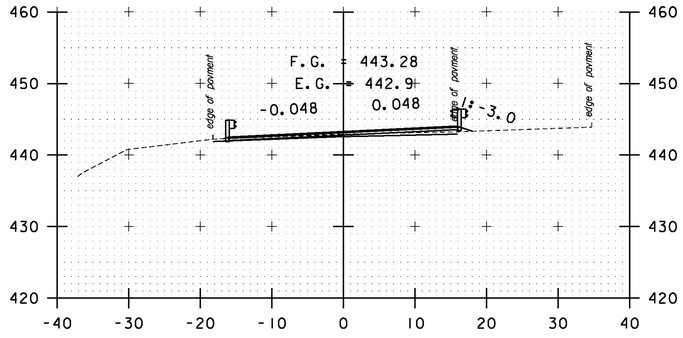
A 15+00



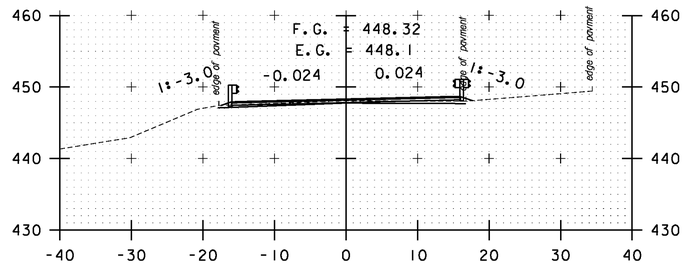
A 16+50



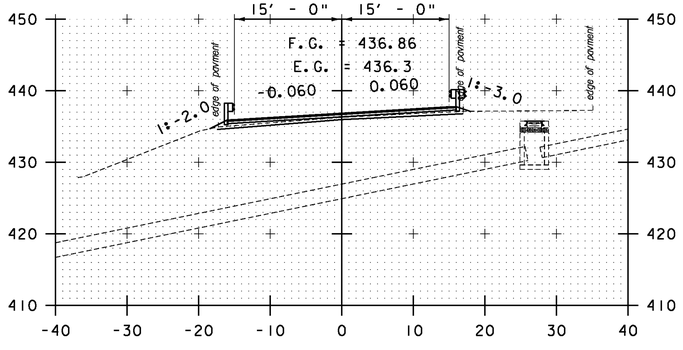
A 13+00



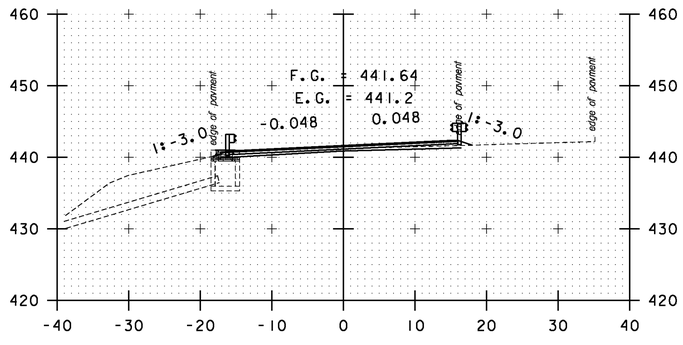
A 14+50



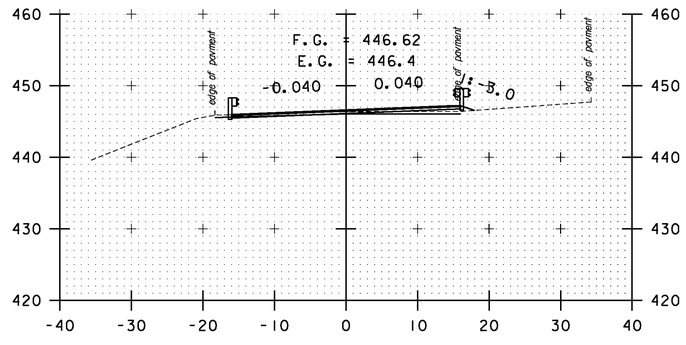
A 16+00



A 12+50



A 14+00



A 15+50

STA. A 12+50 TO STA. A 16+50

SCALE 1" = 10'-0

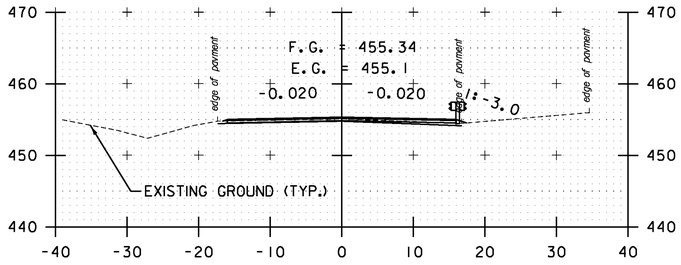
10 0 10

CROSS SECTION SHEET 50

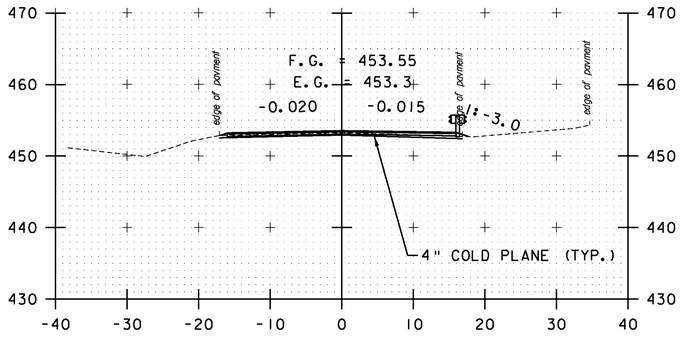
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_176.1

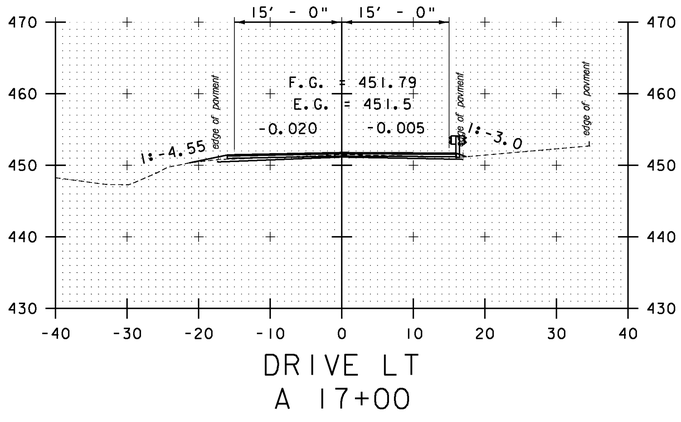
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 176 OF 217



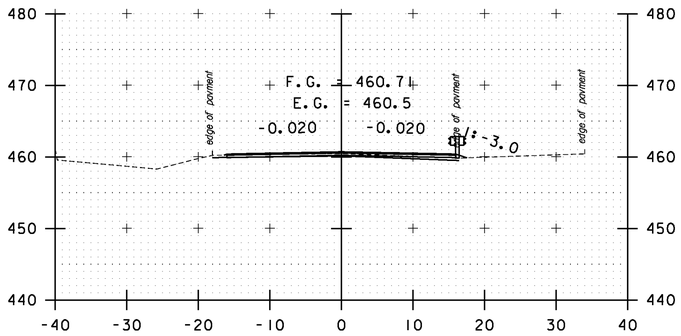
A 18+00



A 17+50

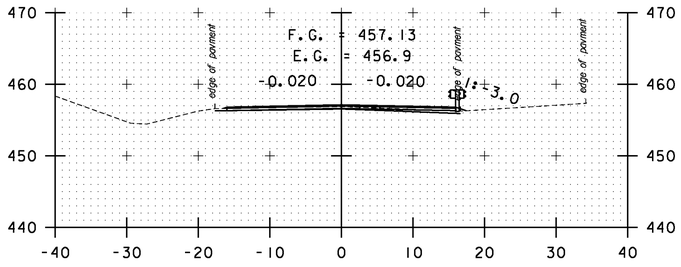


DRIVE LT
A 17+00

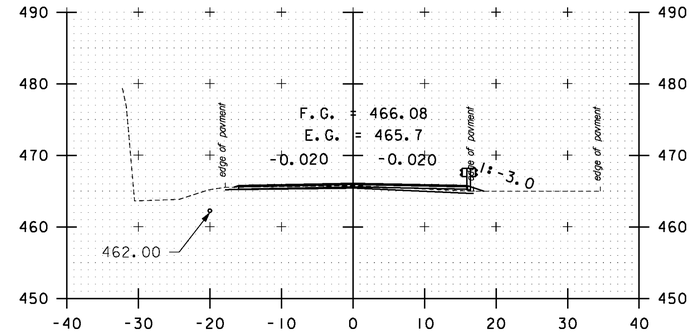


A 19+50

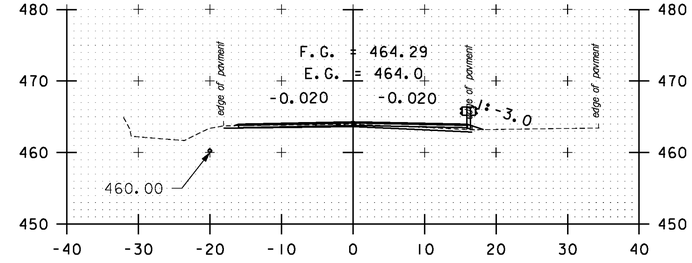
A 19+00



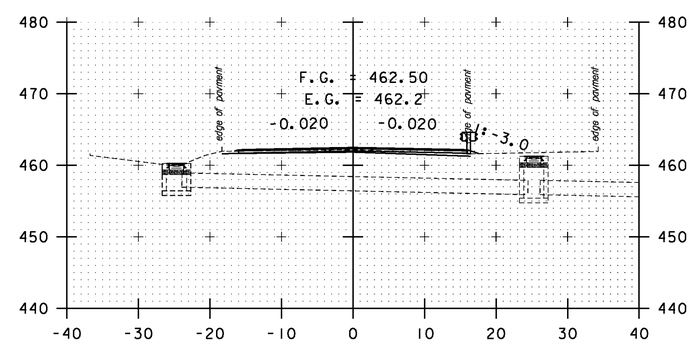
A 18+50



A 21+00



A 20+50

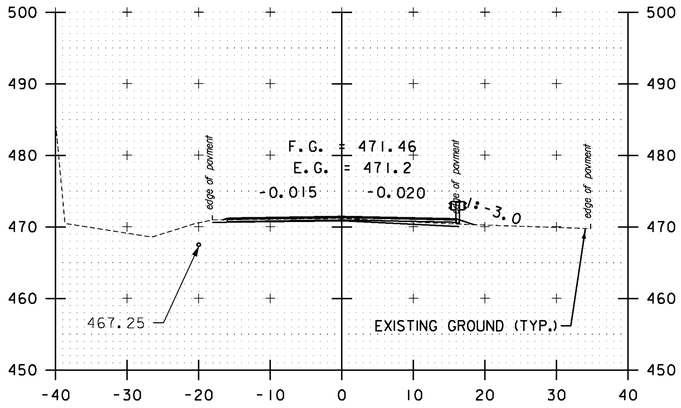


A 20+00

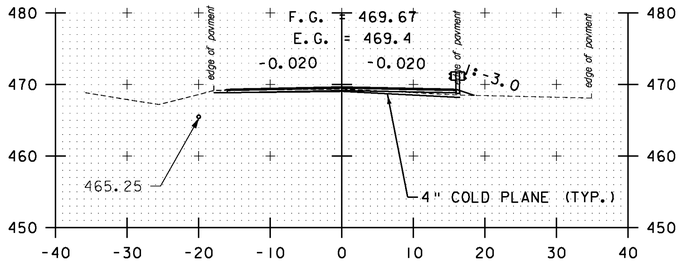
STA. A 17+00 TO STA. A 21+00

SCALE 1" = 10'-0

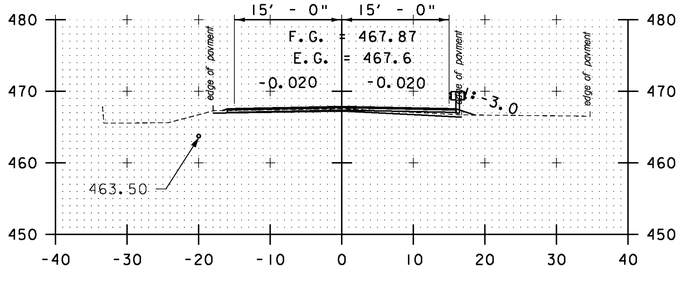
CROSS SECTION SHEET 51	PROJECT NAME: BOLTON-WATERBURY
	PROJECT NUMBER: STP 2709(1)
FILE NAME: p07C172.dgn	PLOT DATE: 4/16/2013
PROJECT LEADER: CDL	DRAWN BY: BMB
DESIGNED BY: BMB	CHECKED BY: CDL
PLOT FILE: p07C172_177.1	SHEET 177 OF 217



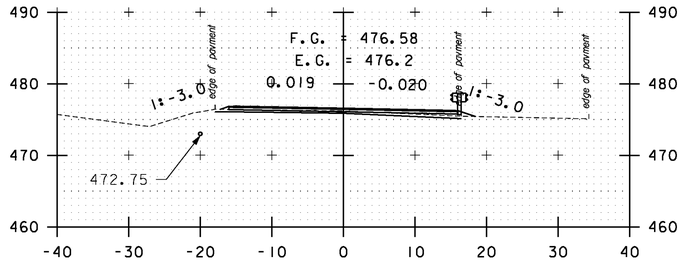
A 22+50



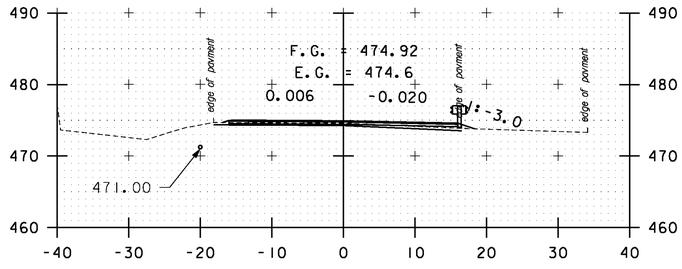
A 22+00



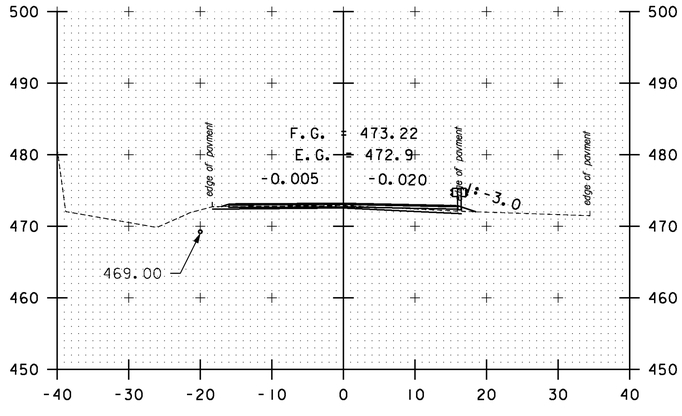
A 21+50



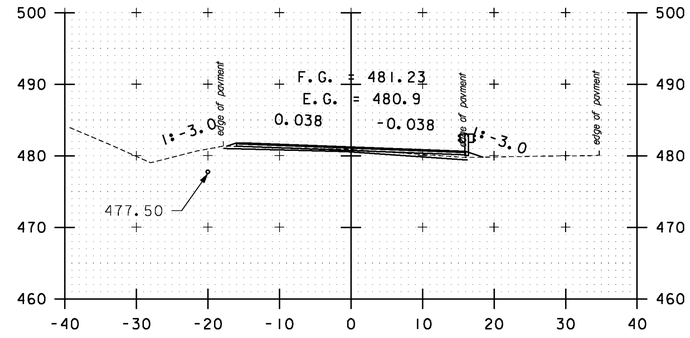
A 24+00



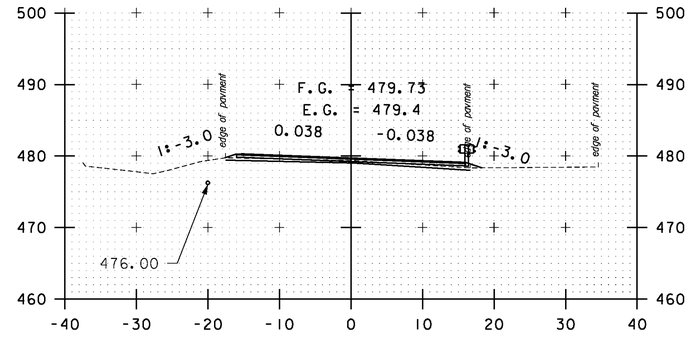
A 23+50



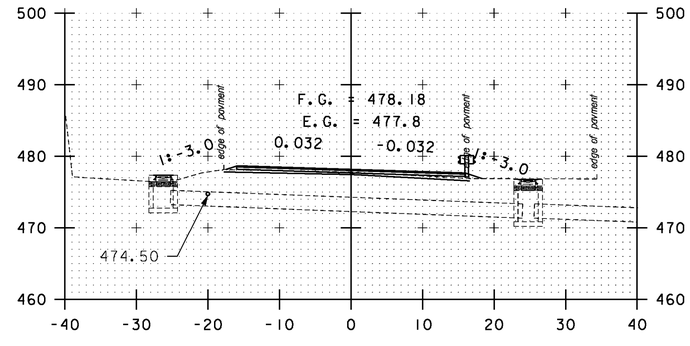
A 23+00



A 25+50



A 25+00



A 24+50

STA. A 21+50 TO STA. A 25+50

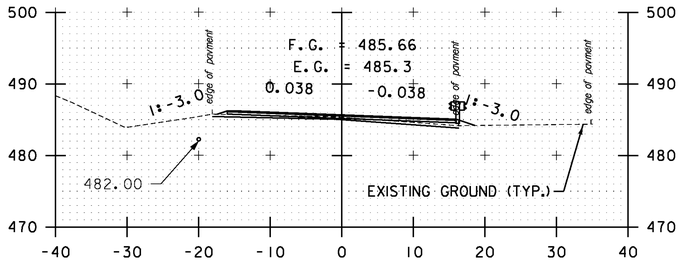
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 52

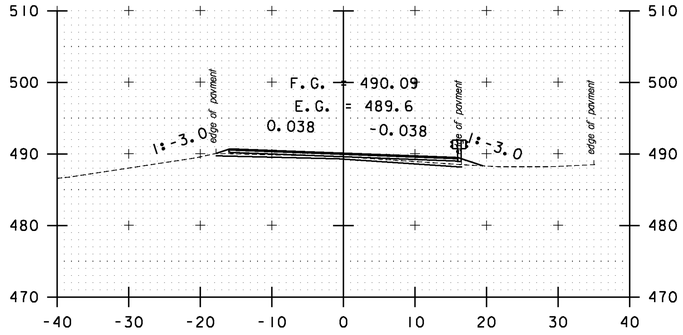
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_178.1

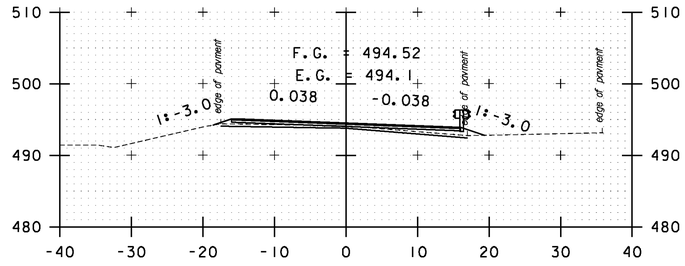
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 178 OF 217



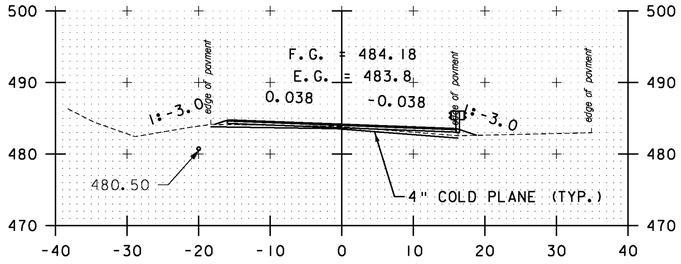
A 27+00



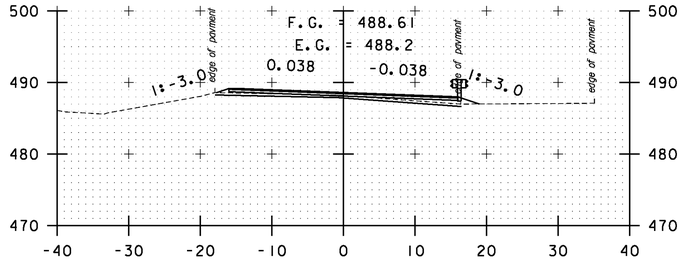
A 28+50



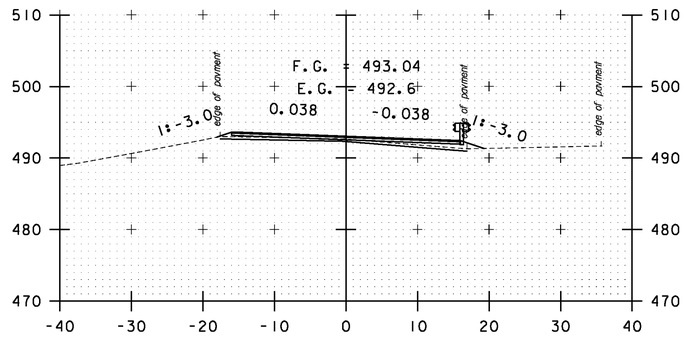
A 30+00



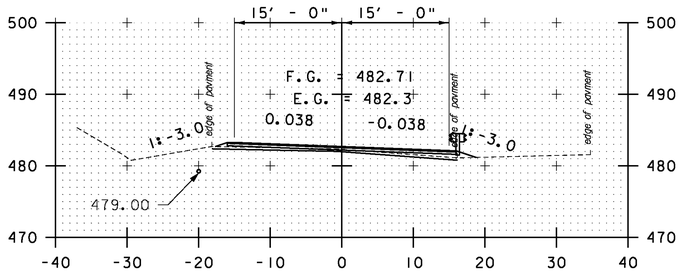
A 26+50



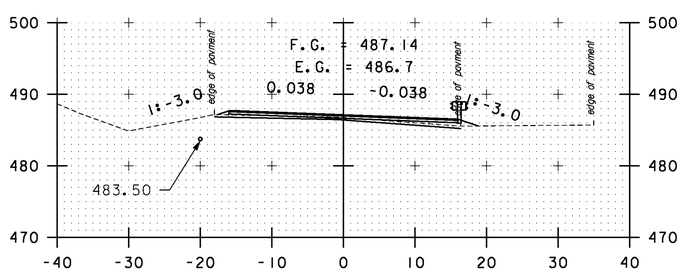
A 28+00



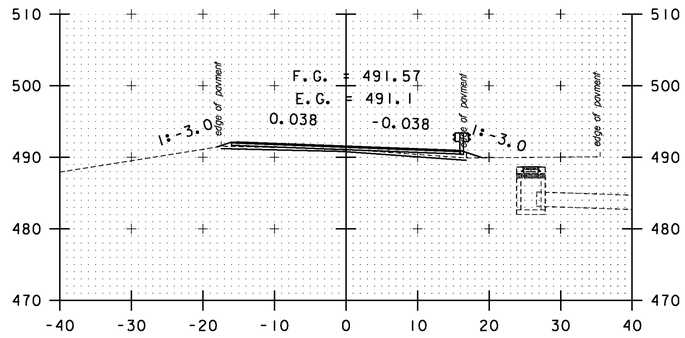
A 29+50



A 26+00



A 27+50



A 29+00

STA. A 26+00 TO STA. A 30+00

SCALE 1" = 10'-0

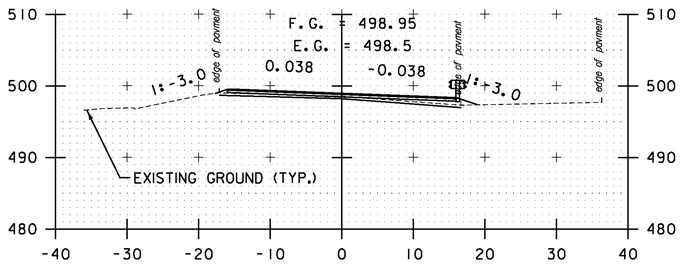
10 0 10

CROSS SECTION SHEET 53

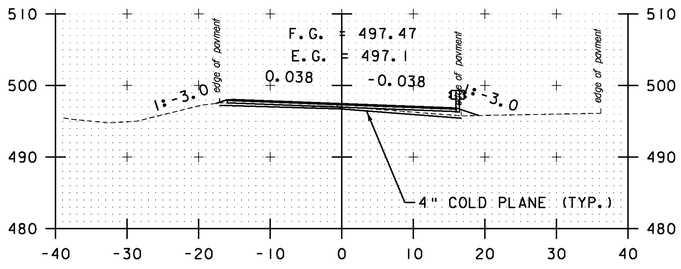
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_179.1

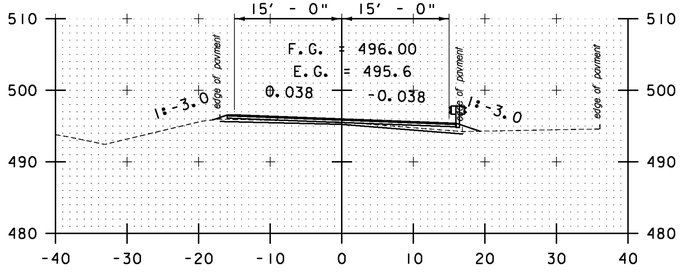
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 179 OF 217



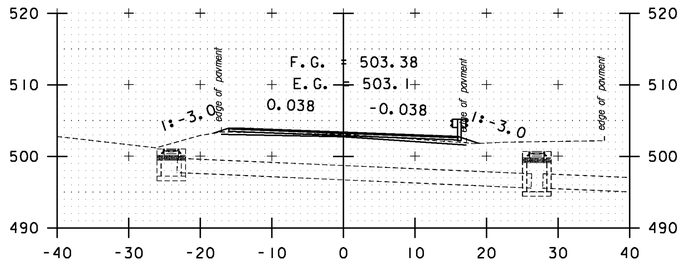
A 31+50



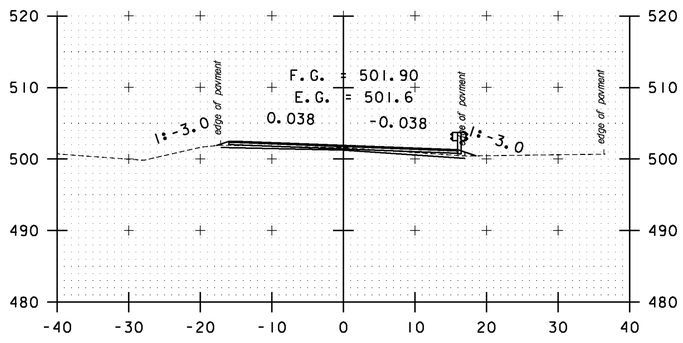
A 31+00



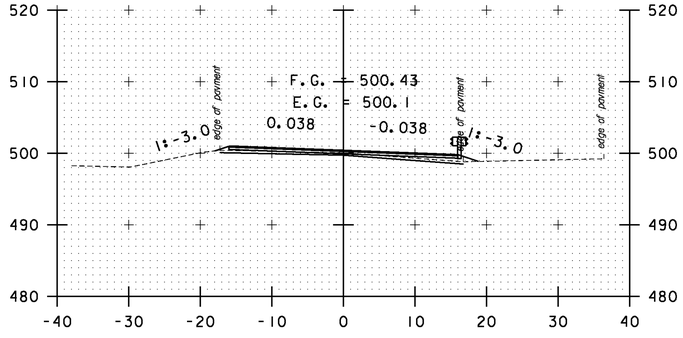
A 30+50



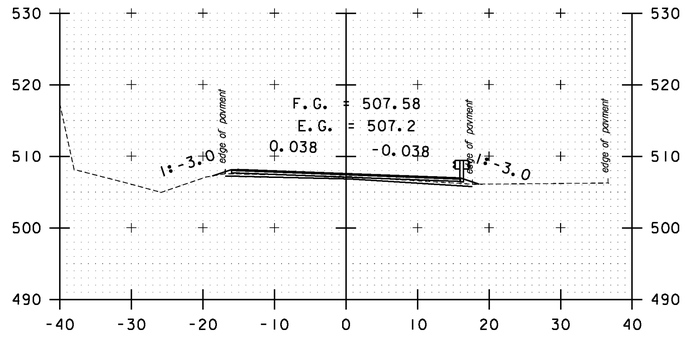
A 33+00



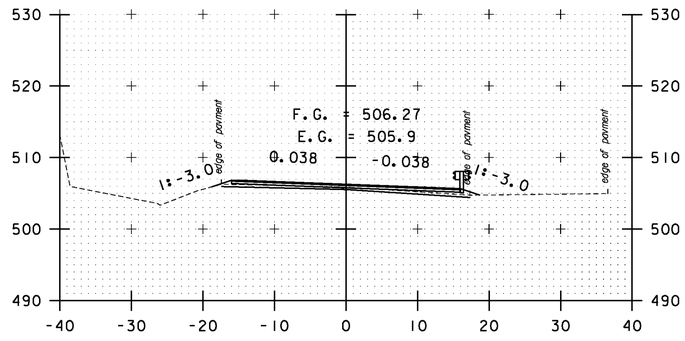
A 32+50



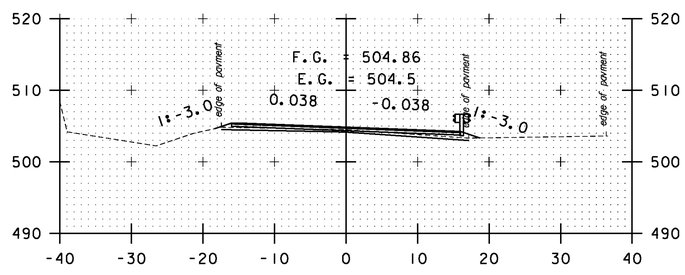
A 32+00



A 34+50



A 34+00



A 33+50

STA. A 30+50 TO STA. A 34+50

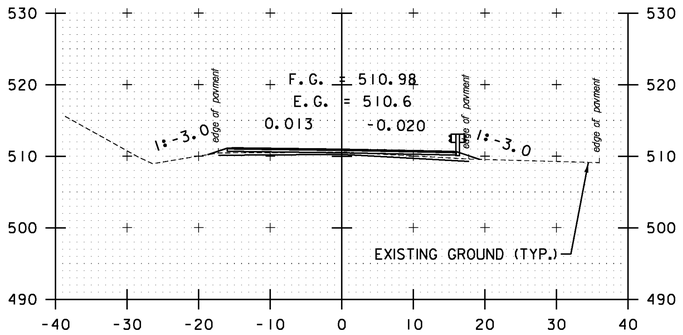
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 54

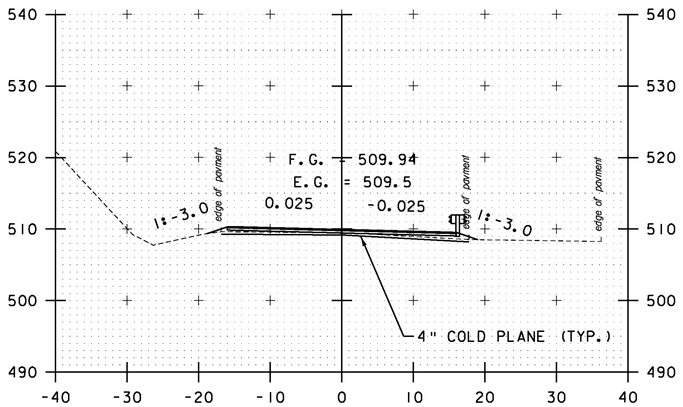
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_180.1

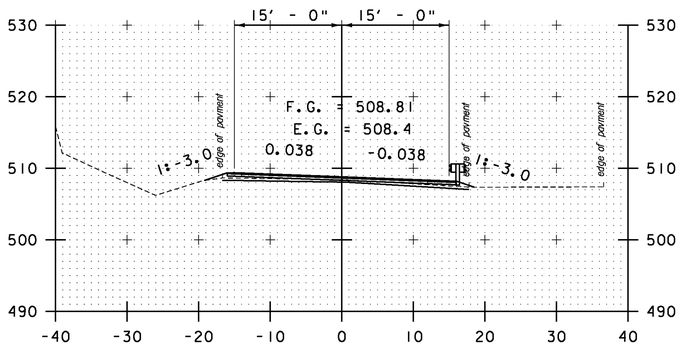
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 180 OF 217



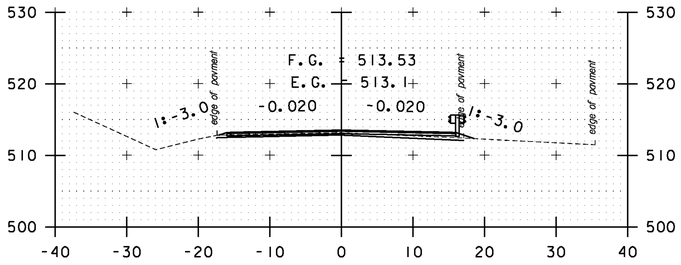
A 36+00



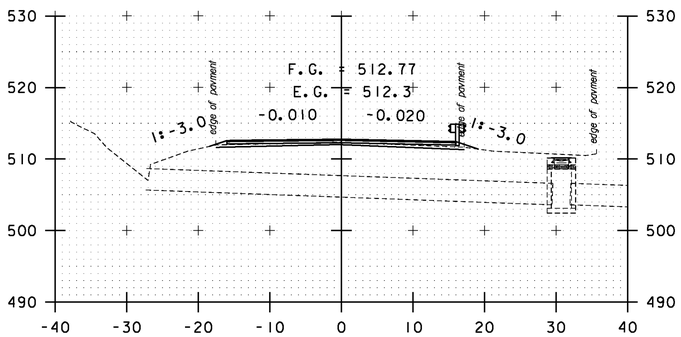
A 35+50



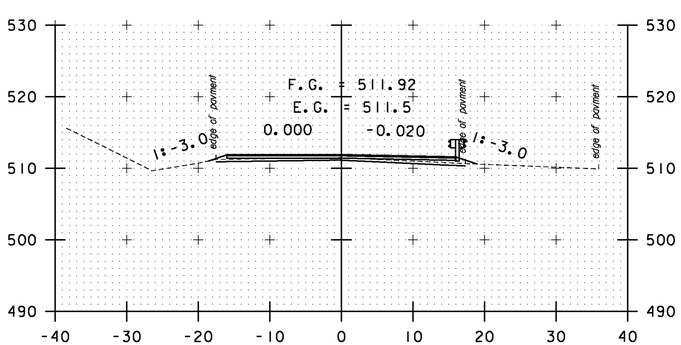
A 35+00



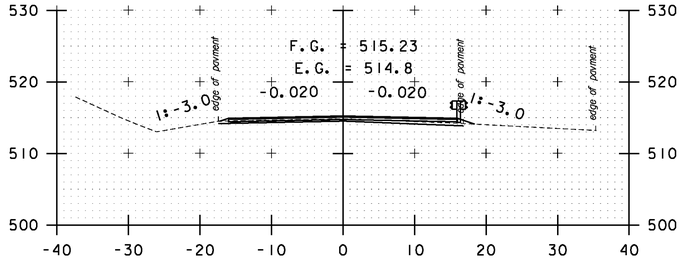
A 37+50



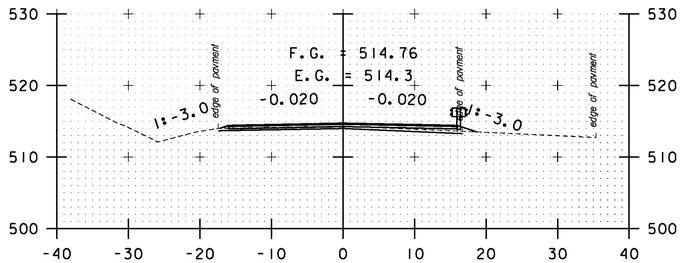
A 37+00



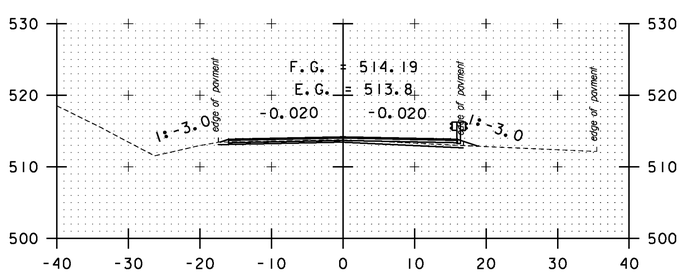
A 36+50



A 39+00



A 38+50



A 38+00

STA. A 35+00 TO STA. A 39+00

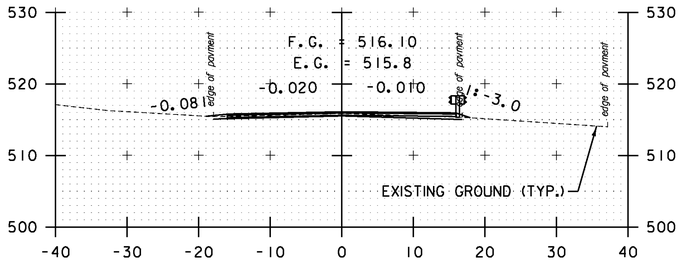
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 55

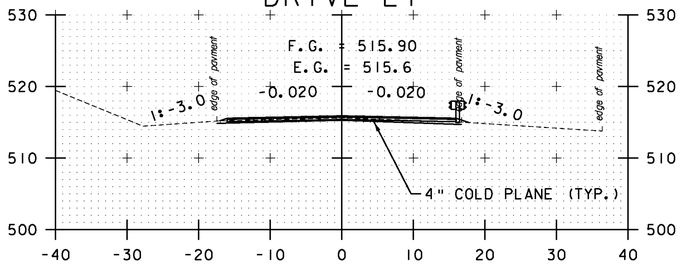
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_181.i

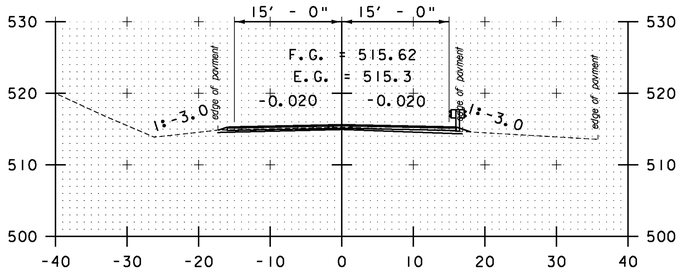
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 181 OF 217



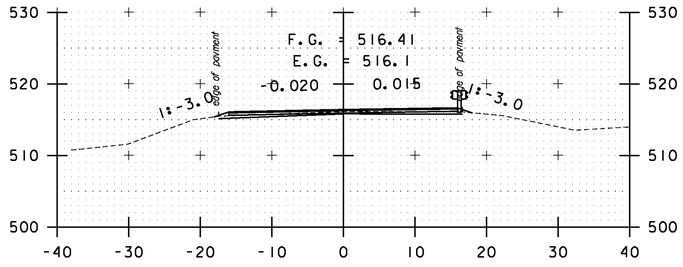
A 40+50
DRIVE LT



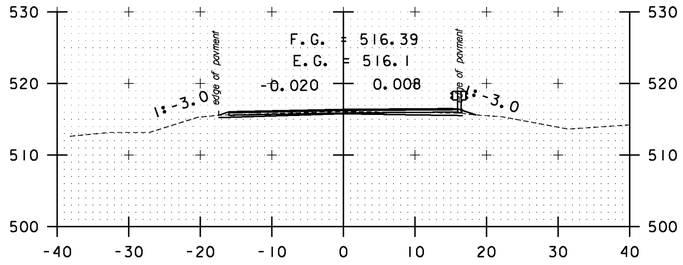
A 40+00



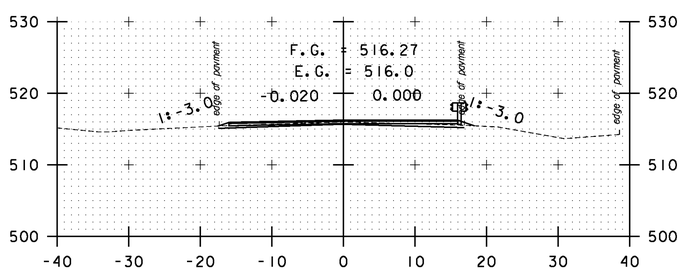
A 39+50



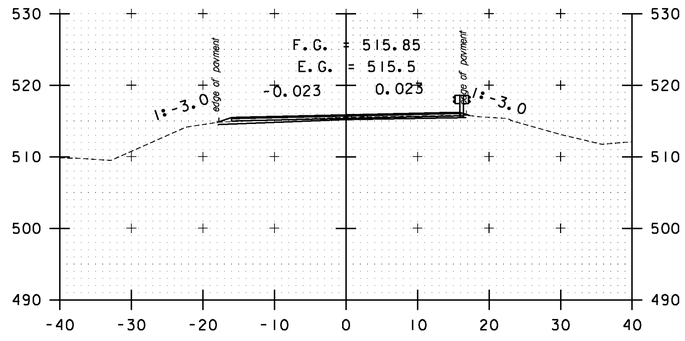
A 42+00



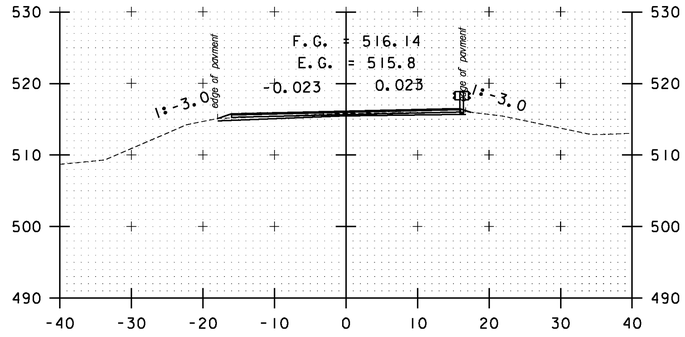
A 41+50



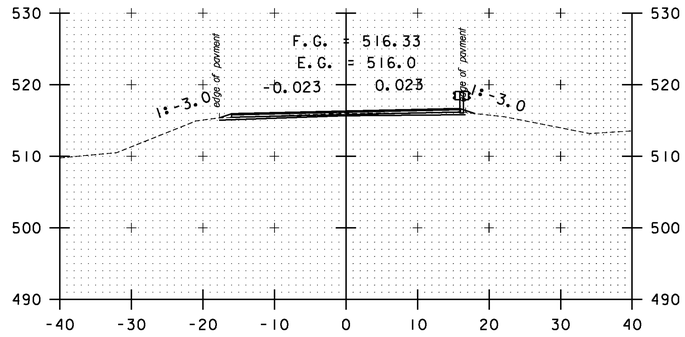
A 41+00



A 43+50



A 43+00



A 42+50

STA. A 39+50 TO STA. A 43+50

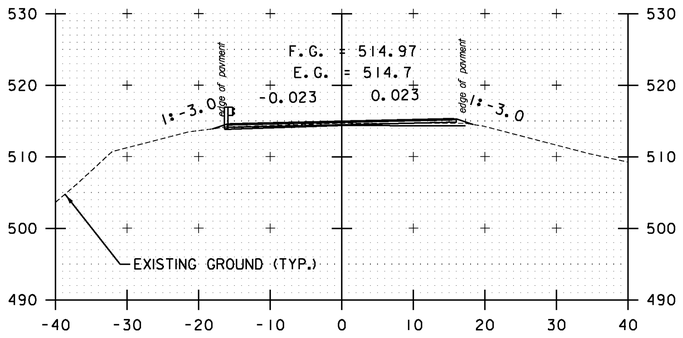
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 56

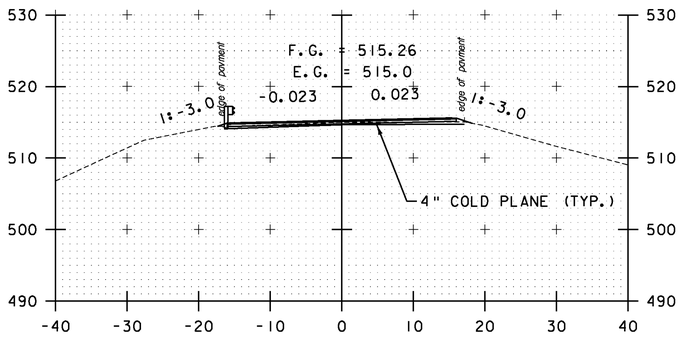
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_182.1

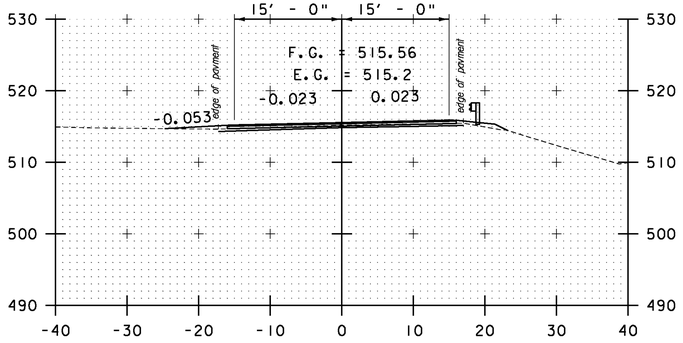
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 182 OF 217



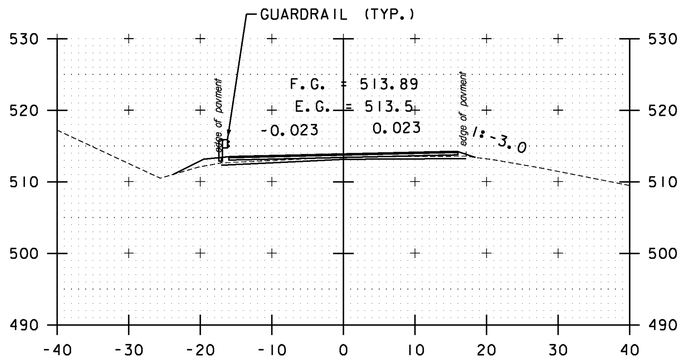
A 45+00



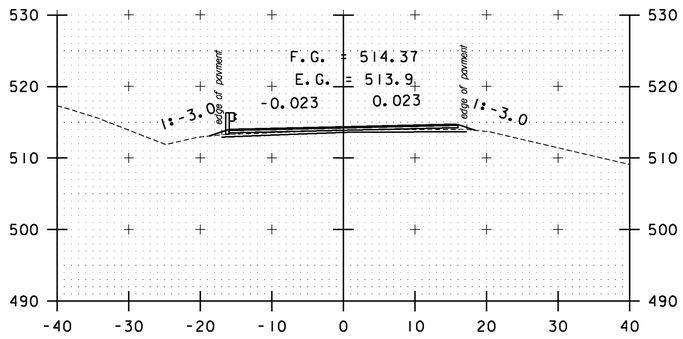
A 44+50



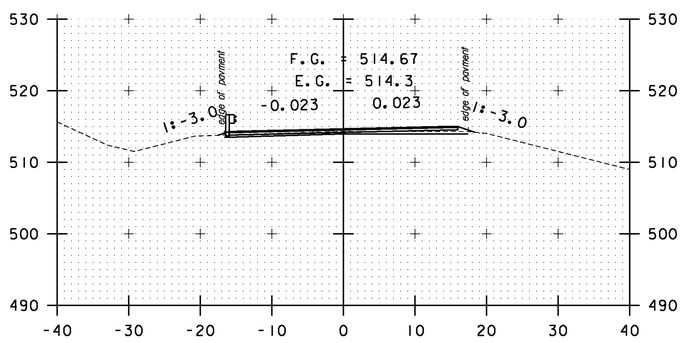
DRIVE LT
A 44+00



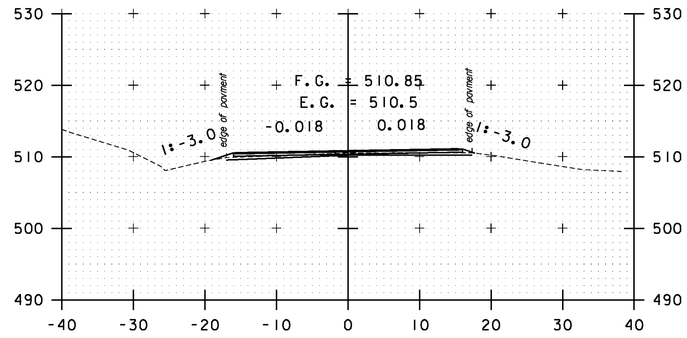
A 46+50



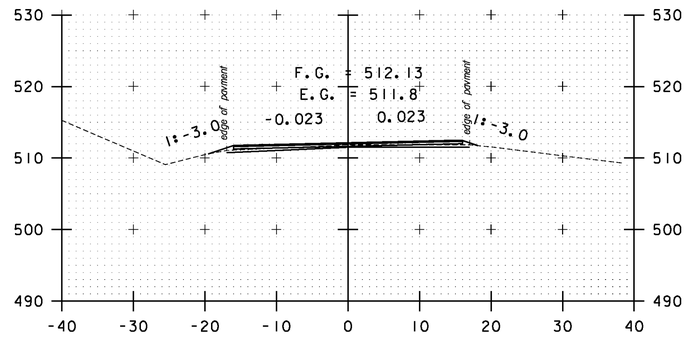
A 46+00



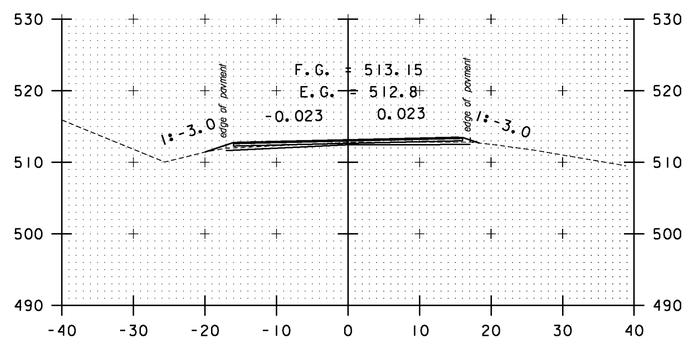
A 45+50



A 48+00



A 47+50



A 47+00

STA. A 44+00 TO STA. A 48+00

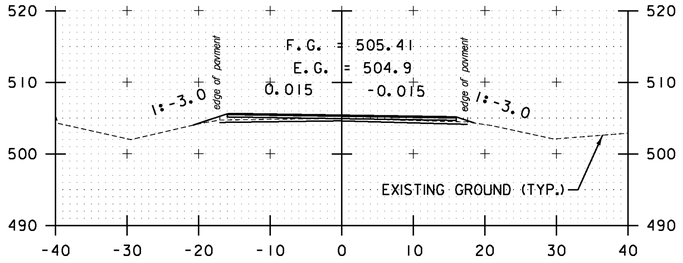
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 57

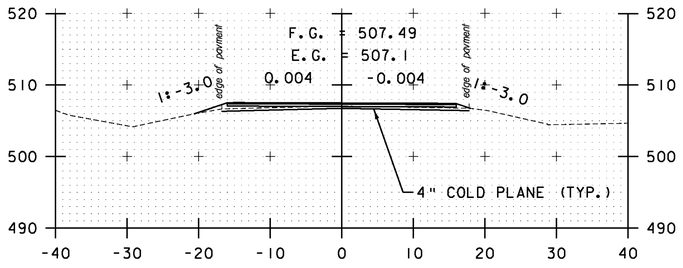
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_183.1

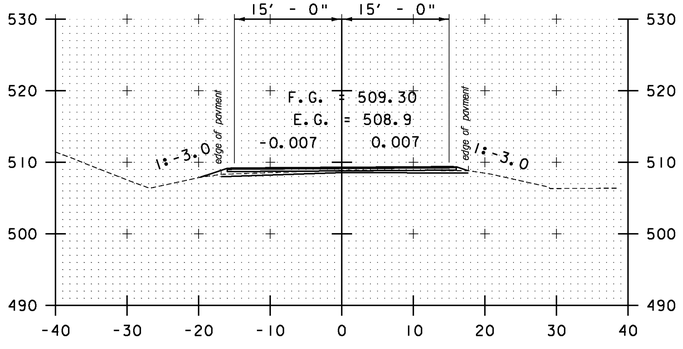
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 183 OF 217



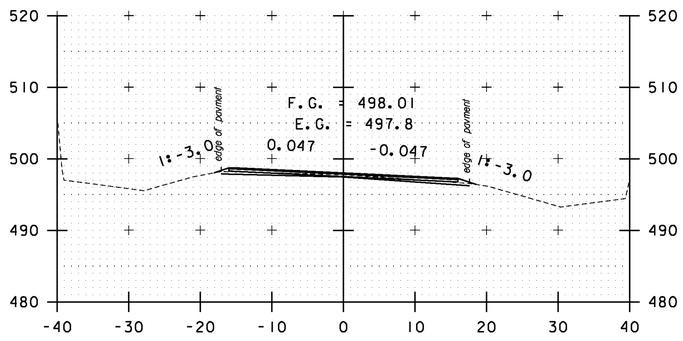
A 49+50



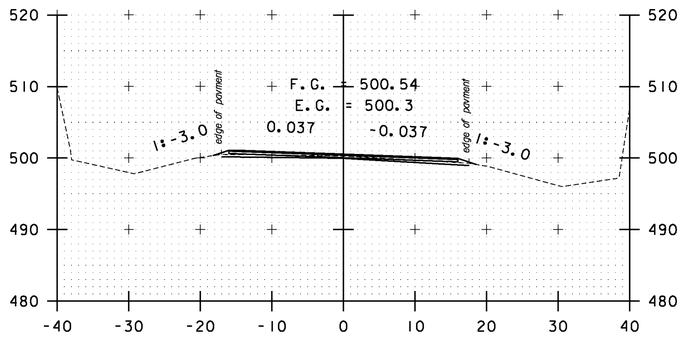
A 49+00



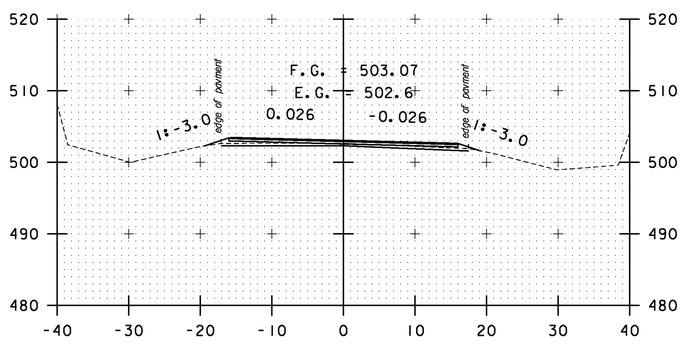
A 48+50



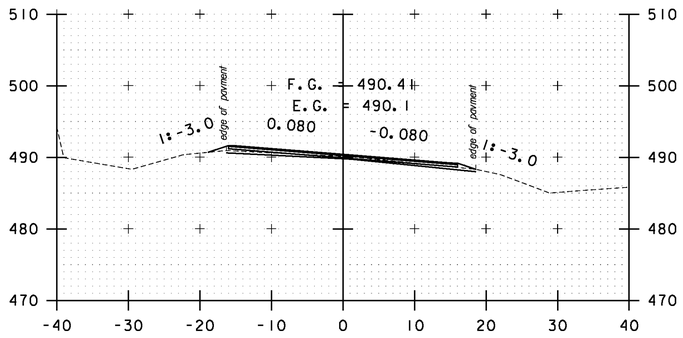
A 51+00



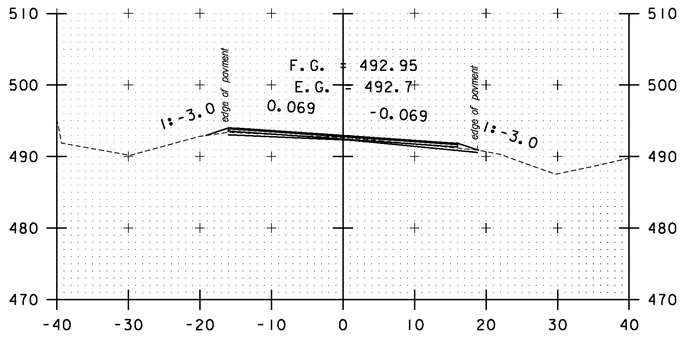
A 50+50



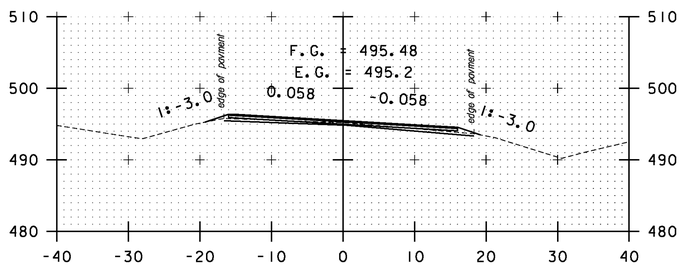
A 50+00



A 52+50



A 52+00



A 51+50

STA. A 48+50 TO STA. A 52+50

SCALE 1" = 10'-0

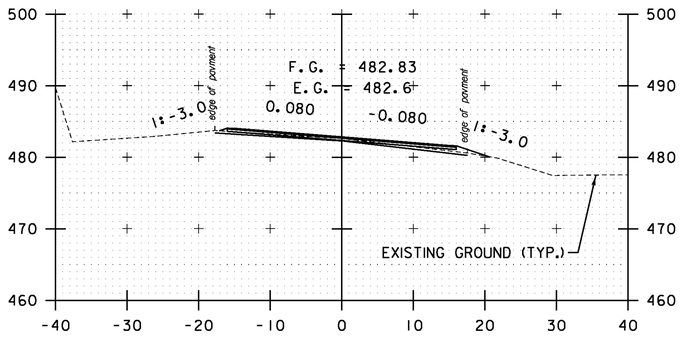
10 0 10

CROSS SECTION SHEET 58

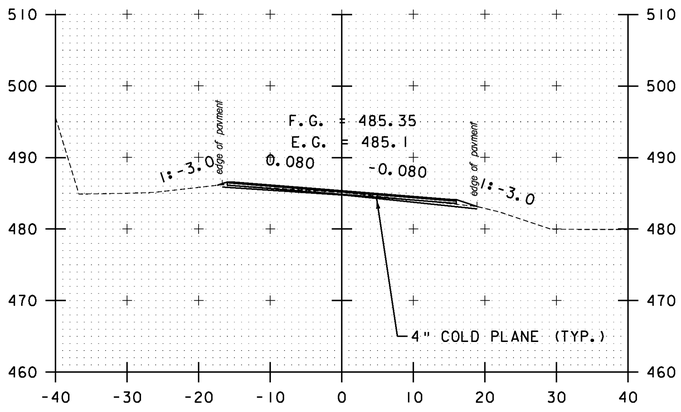
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_184.1

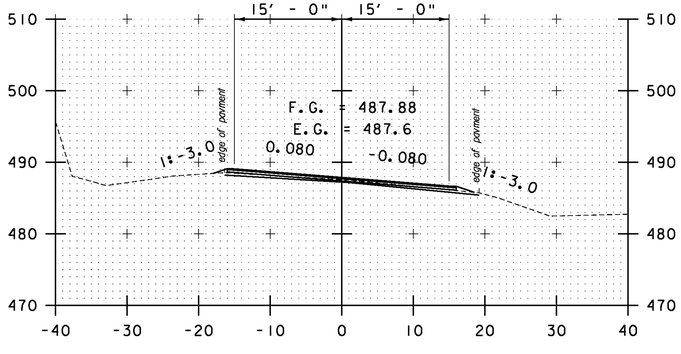
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 184 OF 217



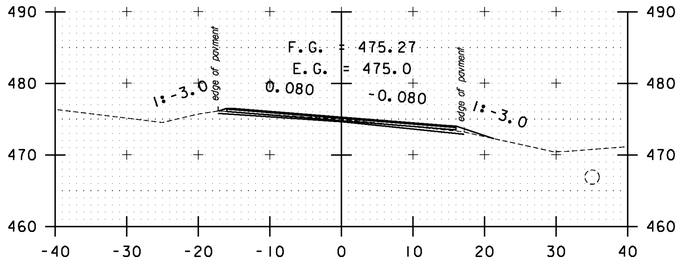
A 54+00



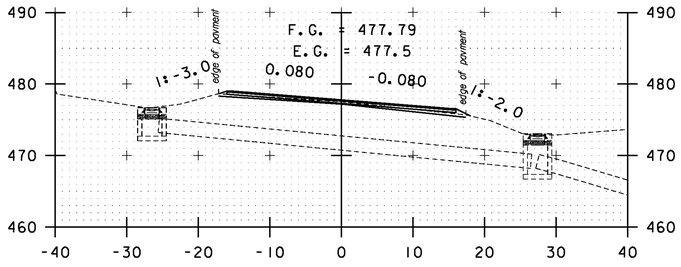
A 53+50



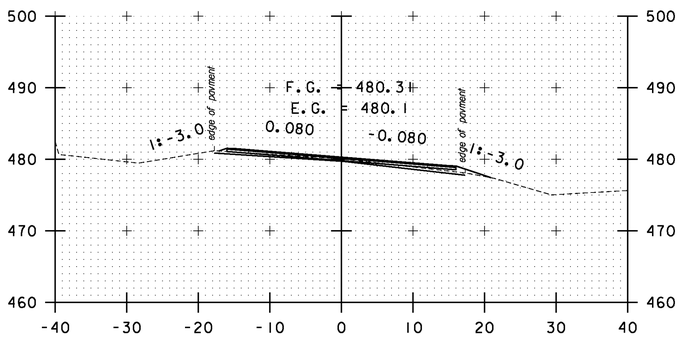
A 53+00



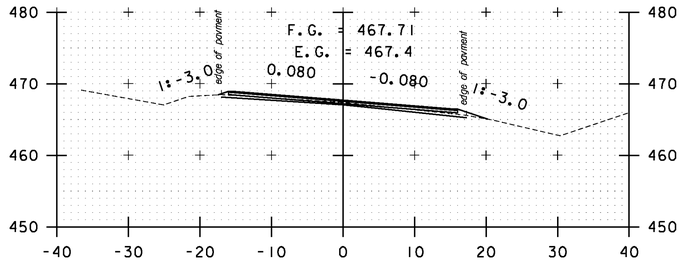
A 55+50



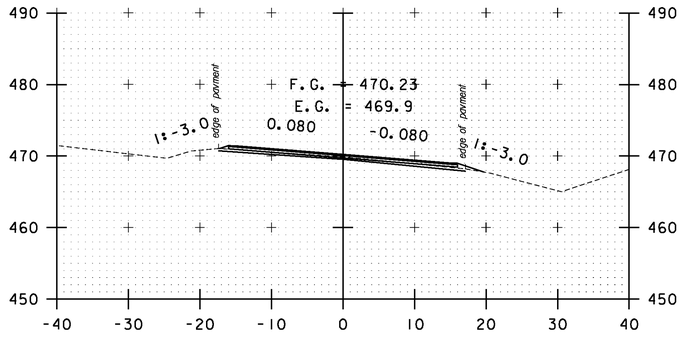
A 55+00



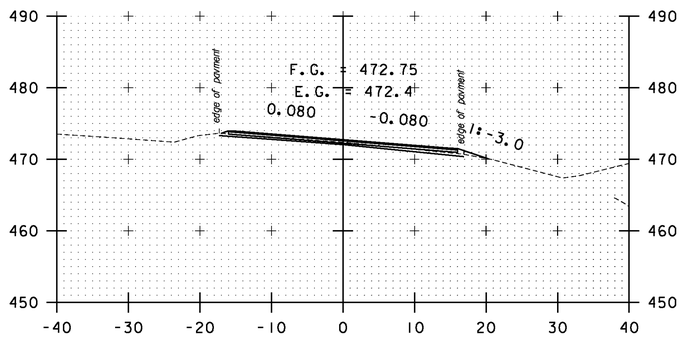
A 54+50



A 57+00



A 56+50



A 56+00

STA. A 53+00 TO STA. A 57+00

SCALE 1" = 10'-0

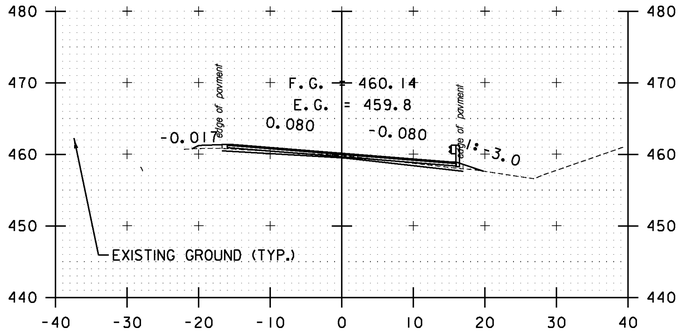
10 0 10

CROSS SECTION SHEET 59

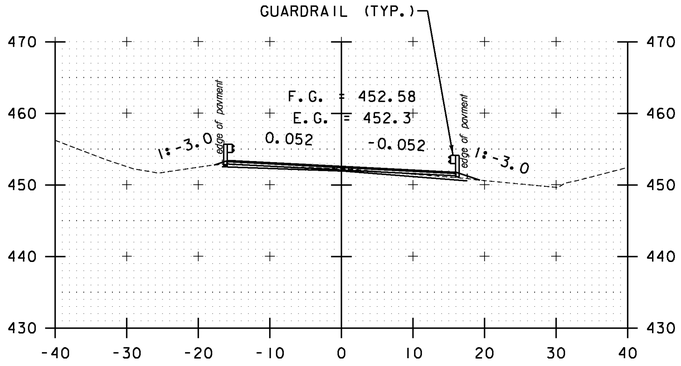
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_185.1

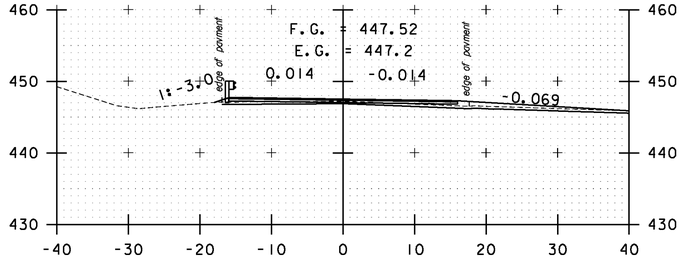
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 185 OF 217



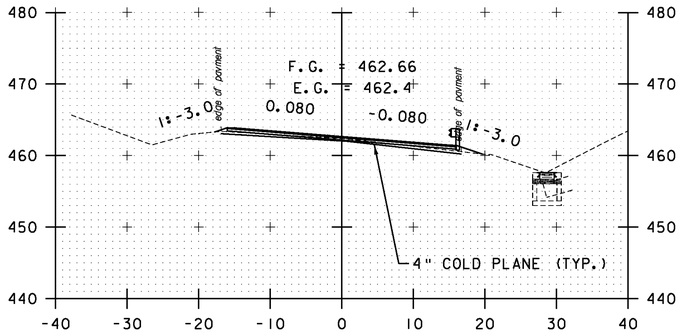
DRIVE LT
A 58+50



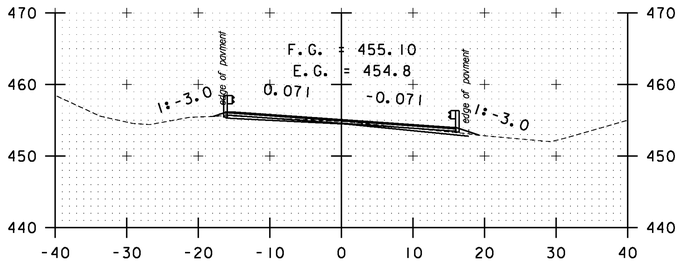
A 60+00



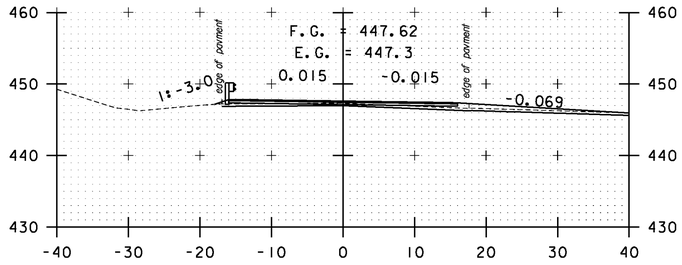
TH#43 RT
A 61+00



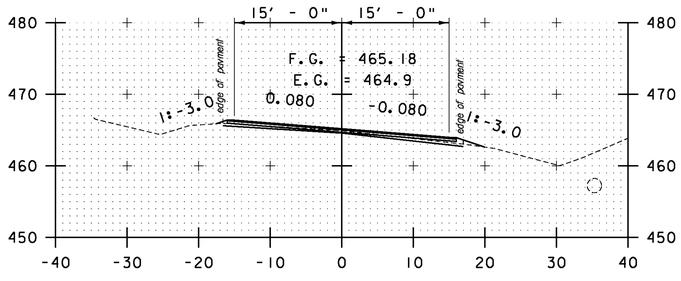
A 58+00



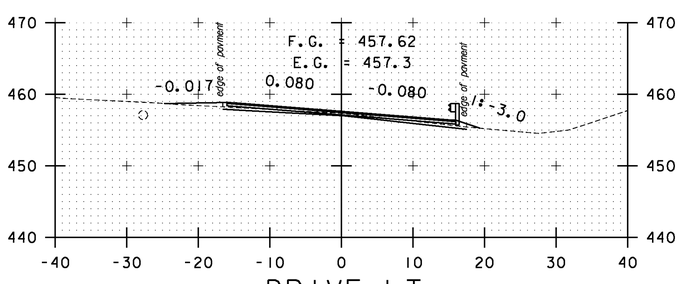
A 59+50



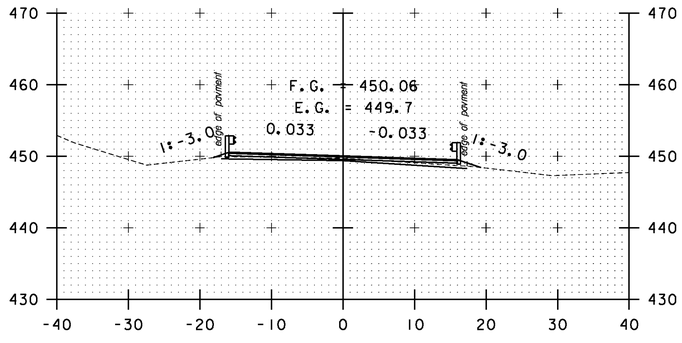
TH#43 RT
A 60+98



A 57+50



DRIVE LT
A 59+00



A 60+50

STA. A 57+50 TO STA. A 61+00

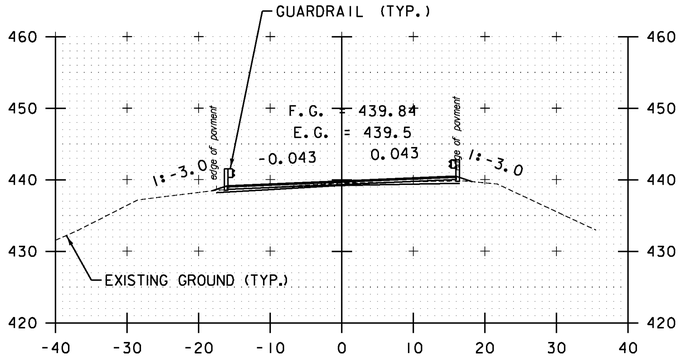
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 60

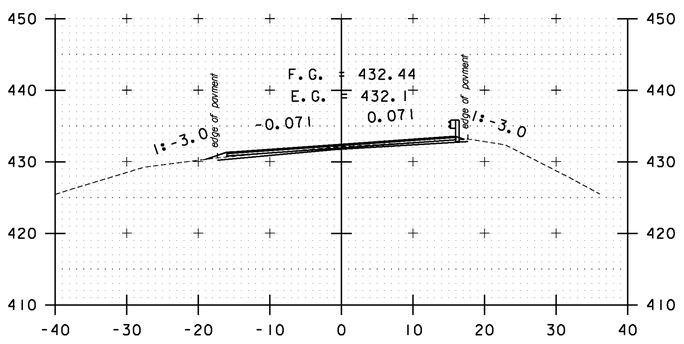
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_186.1

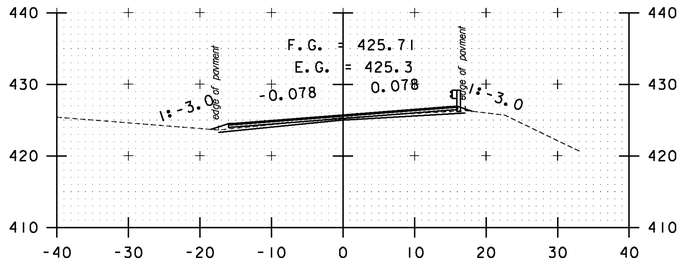
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 186 OF 217



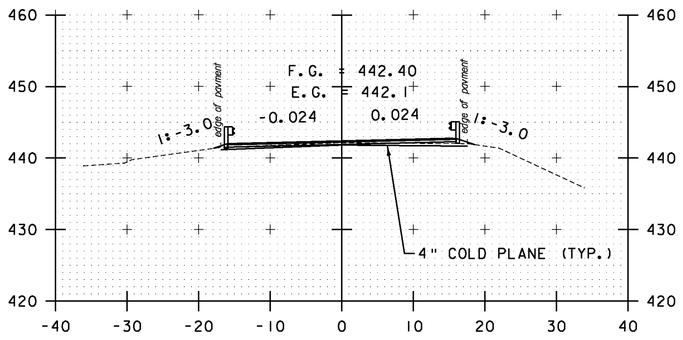
A 62+50



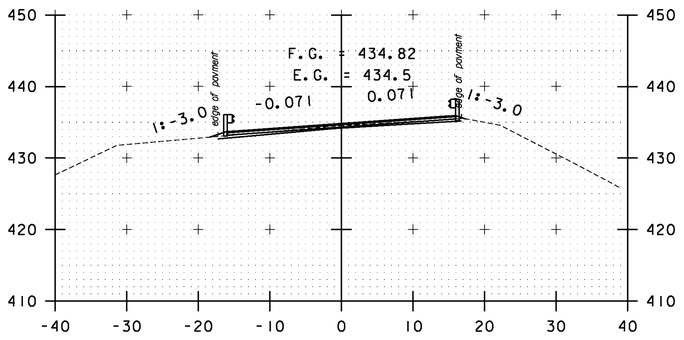
A 64+00



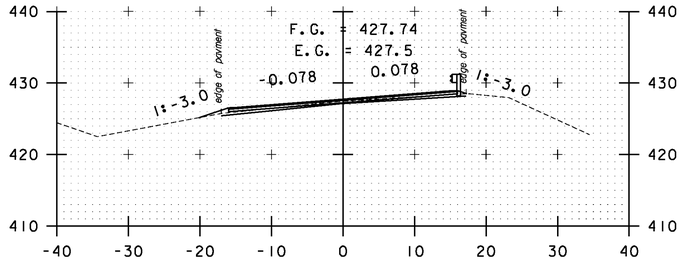
A 65+50



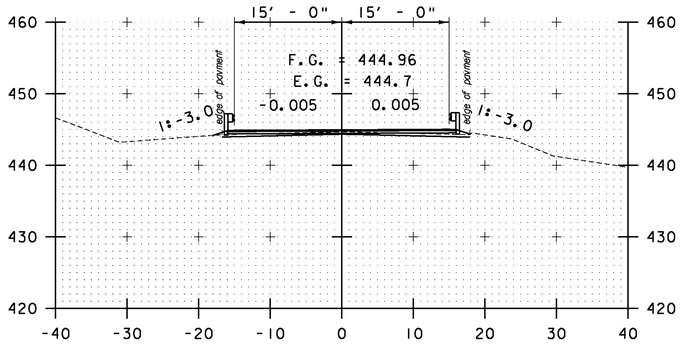
A 62+00



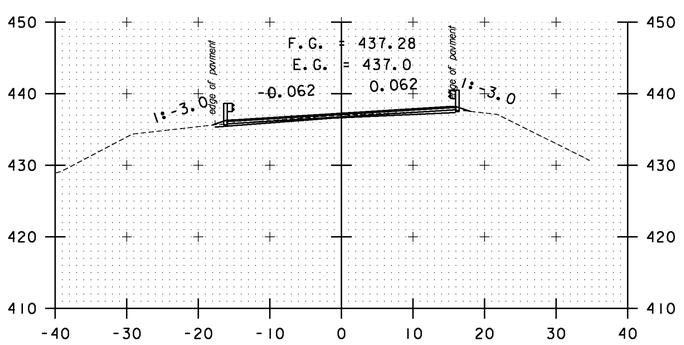
A 63+50



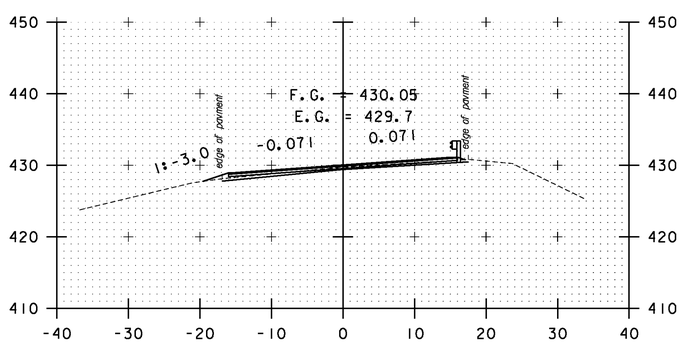
A 65+00



A 61+50



A 63+00



A 64+50

STA. A 61+50 TO STA. A 65+50

SCALE 1" = 10'-0

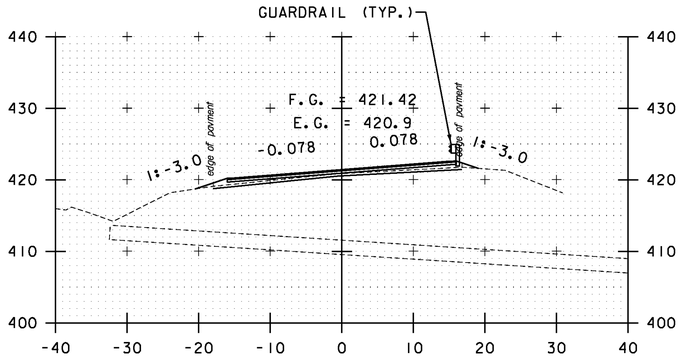
10 0 10

CROSS SECTION SHEET 61

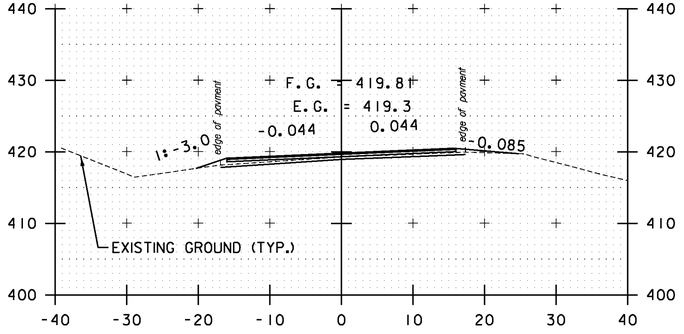
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_187.1

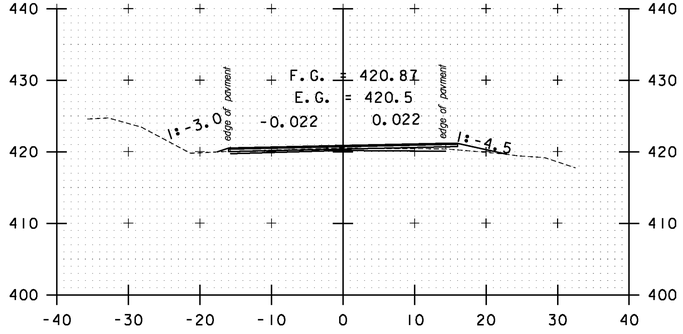
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 187 OF 217



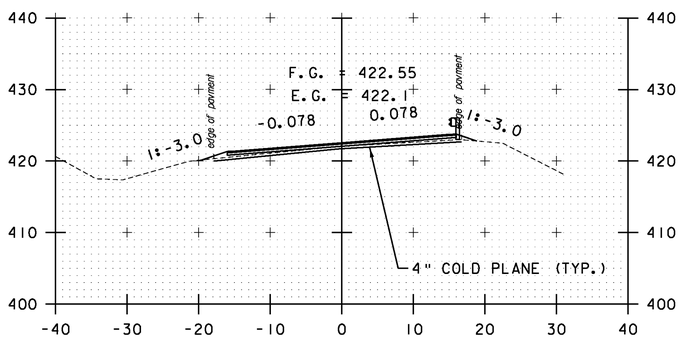
A 67+00



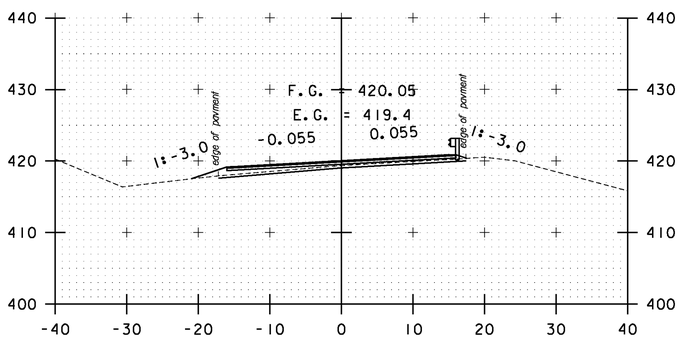
DRIVE RT
A 68+50



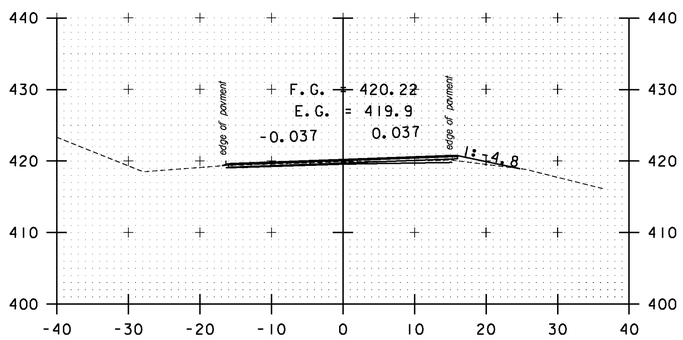
DRIVE RT
A 70+00



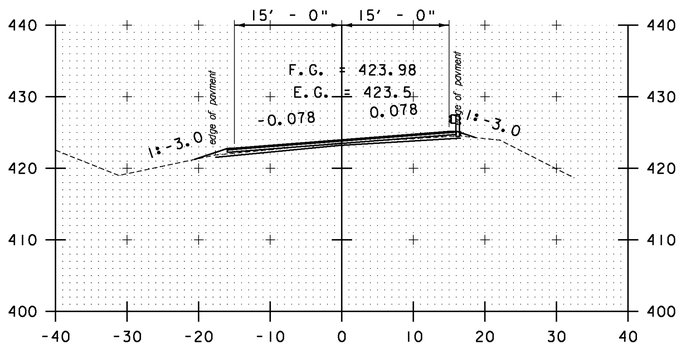
A 66+50



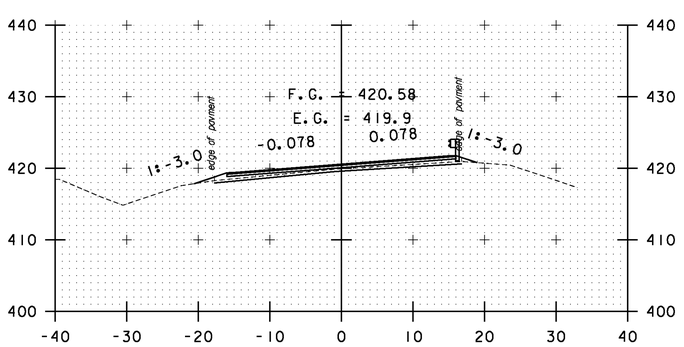
A 68+00



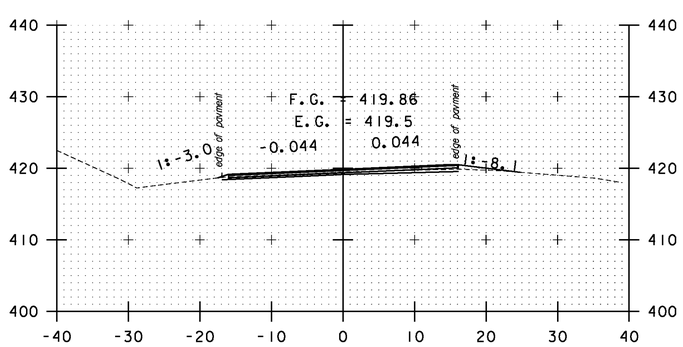
DRIVE RT
A 69+50



A 66+00



A 67+50



DRIVE RT
A 69+00

STA. A 66+00 TO STA. A 70+00

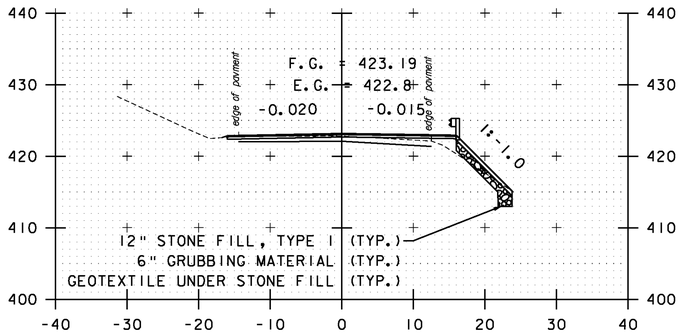
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 62

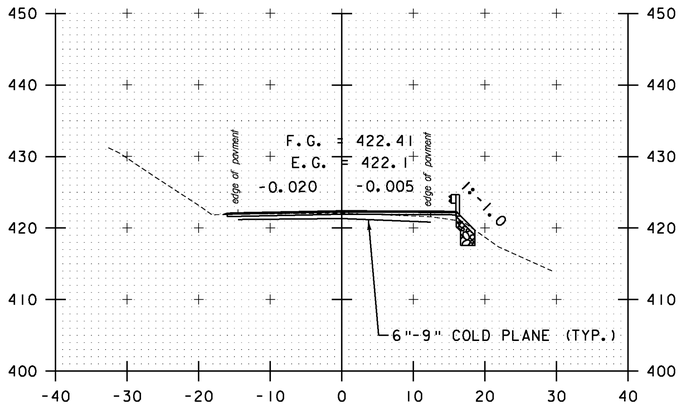
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_188.1

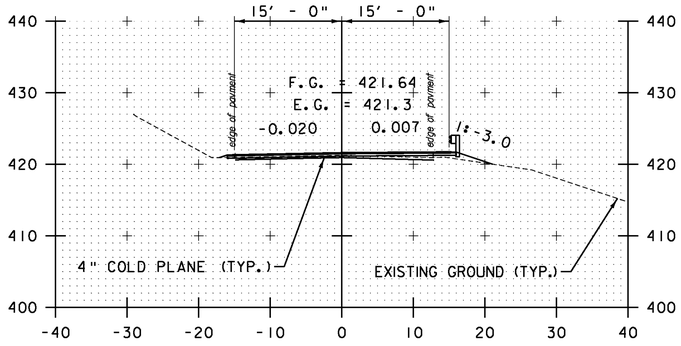
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 188 OF 217



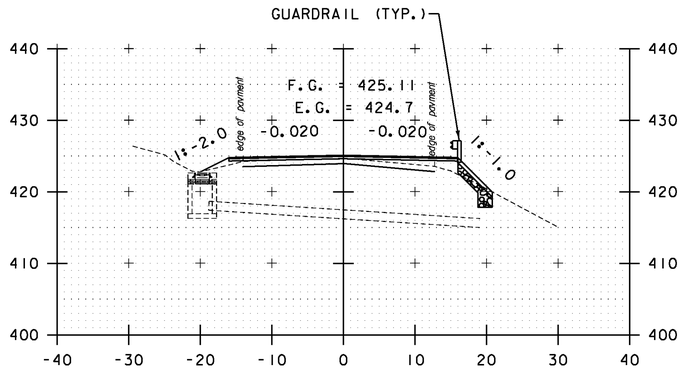
A 71+50



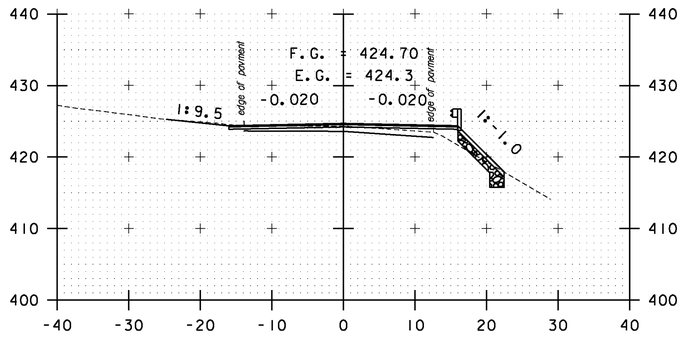
A 71+00



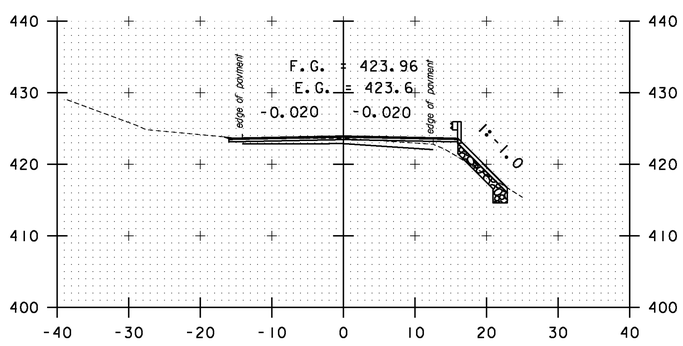
A 70+50



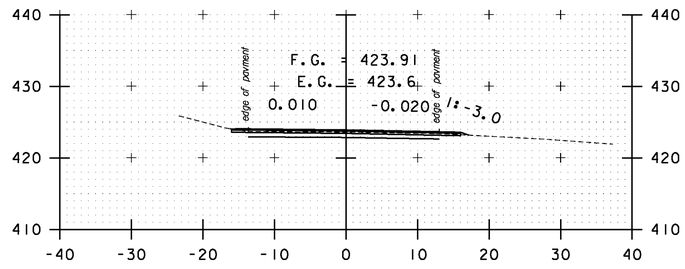
A 73+00



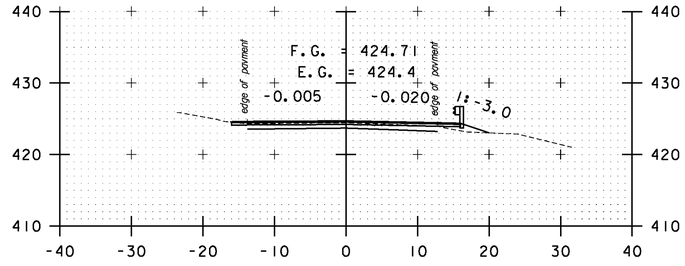
DRIVE LT
A 72+50



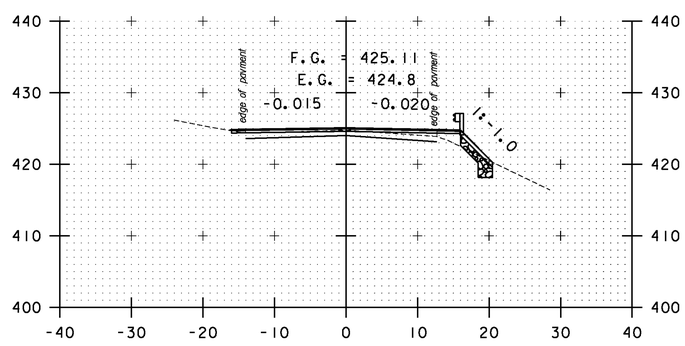
A 72+00



A 74+50



A 74+00



A 73+50

STA. A 70+50 TO STA. A 74+50

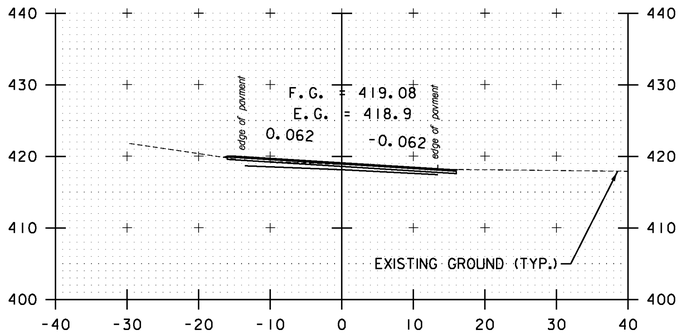
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 63

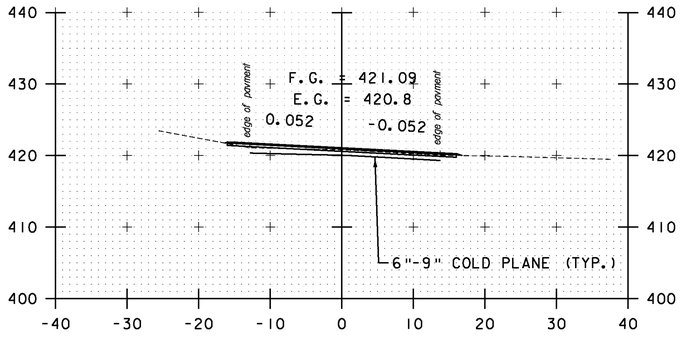
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_189.1

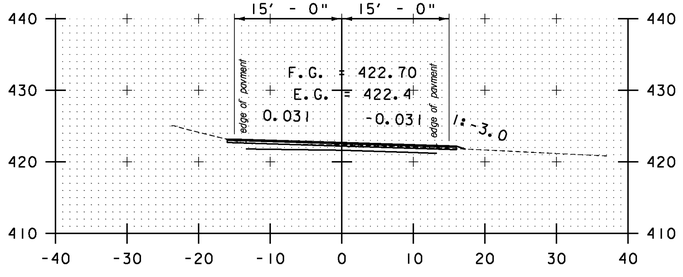
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 189 OF 217



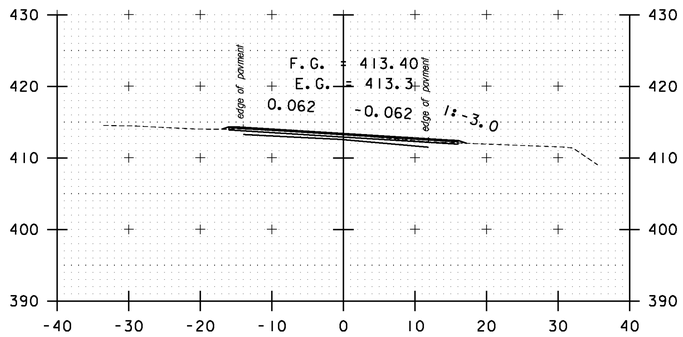
A 76+00



A 75+50

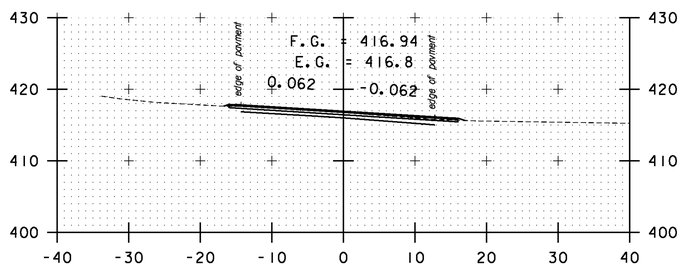


A 75+00

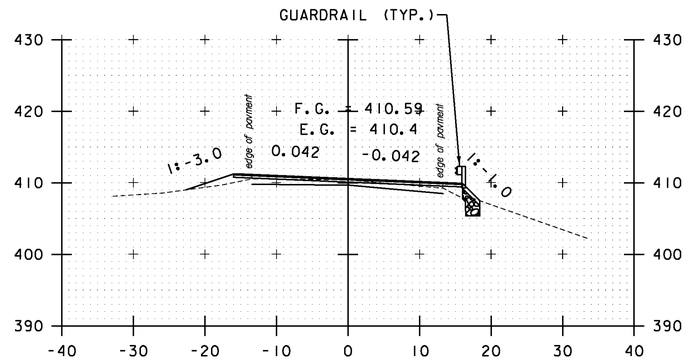


A 77+50

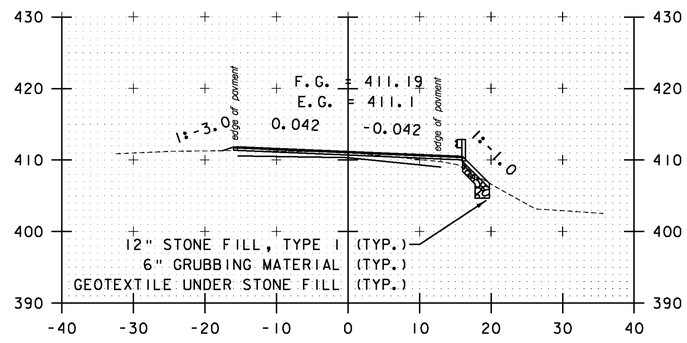
A 77+00



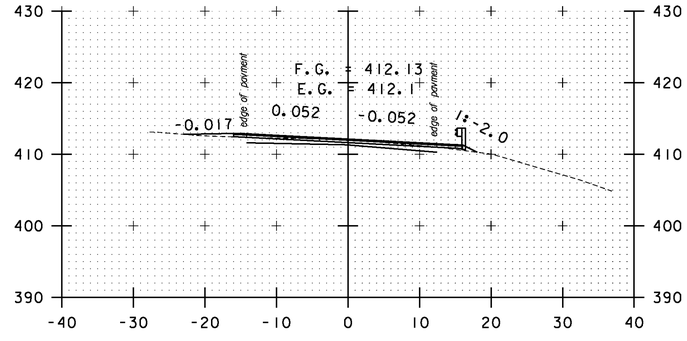
A 76+50



A 79+00



A 78+50



DRIVE LT
A 78+00

STA. A 75+00 TO STA. A 79+00

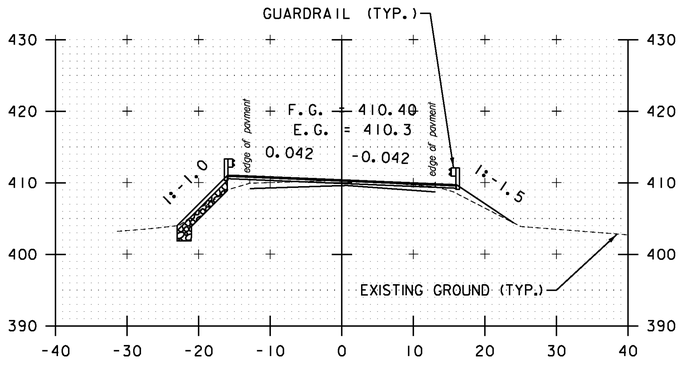
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 64

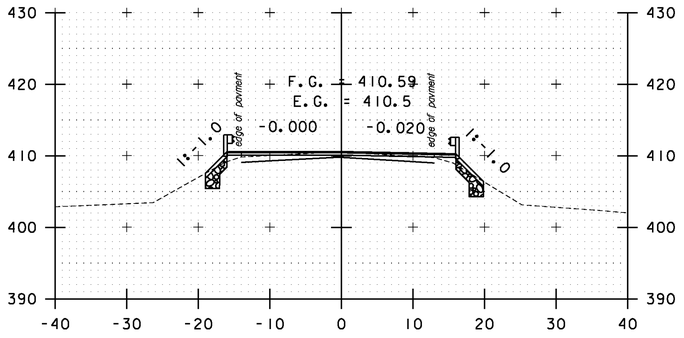
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_190.1

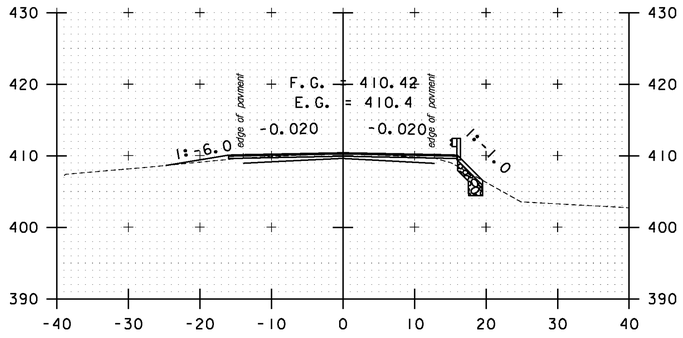
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 190 OF 217



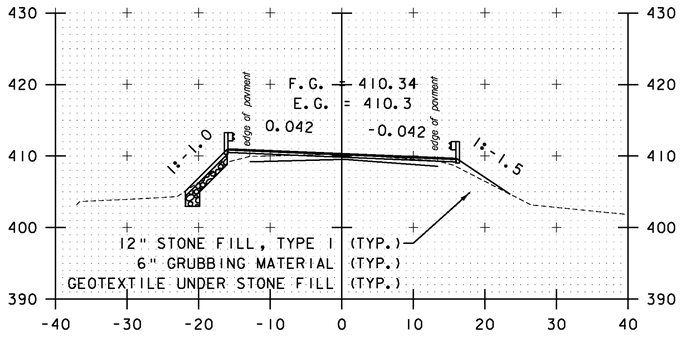
A 80+50



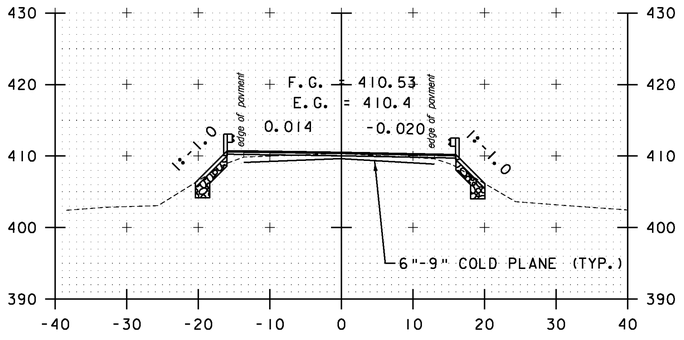
A 82+00



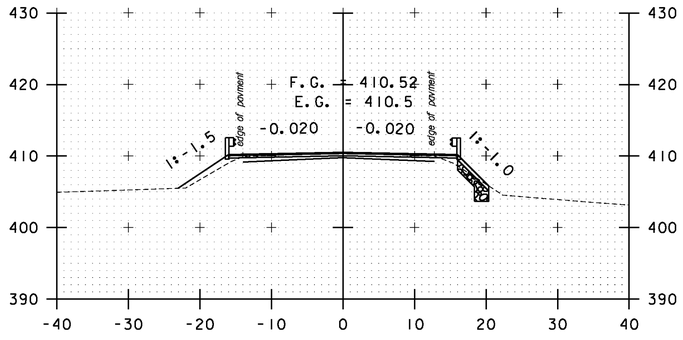
DRIVE LT
A 83+50



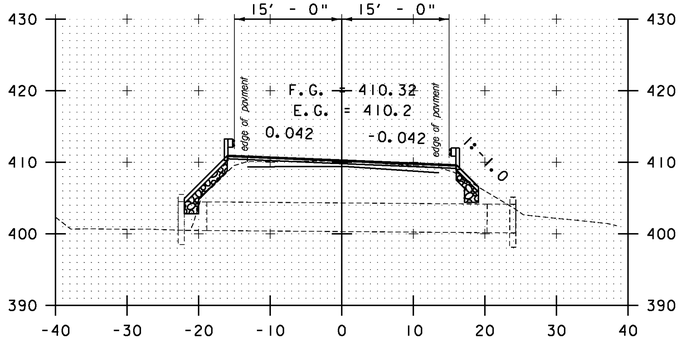
A 80+00



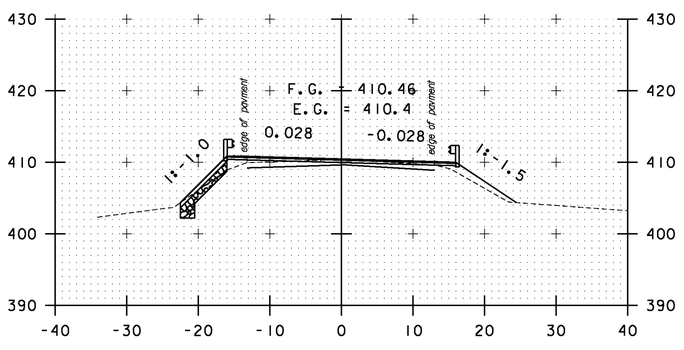
A 81+50



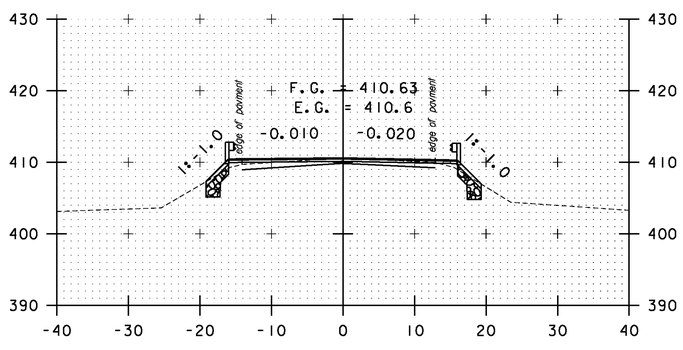
A 83+00



A 79+50



A 81+00



A 82+50

STA. A 79+50 TO STA. A 83+50

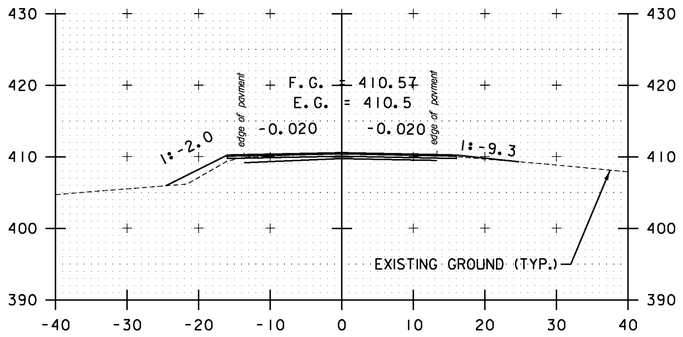
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 65

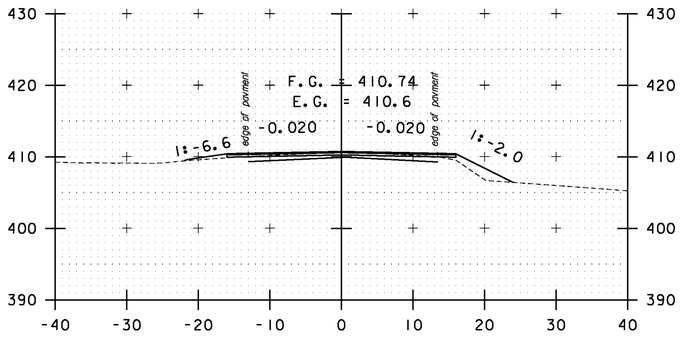
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_191.i

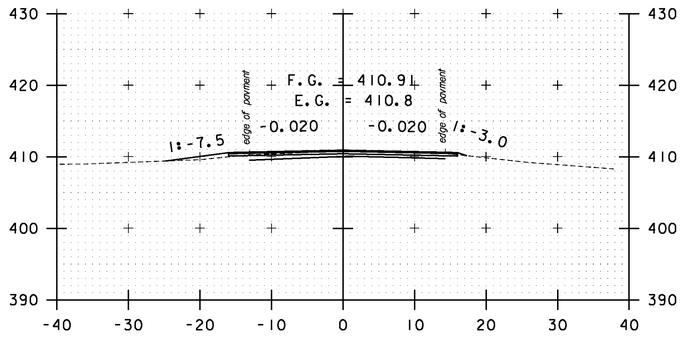
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 191 OF 217



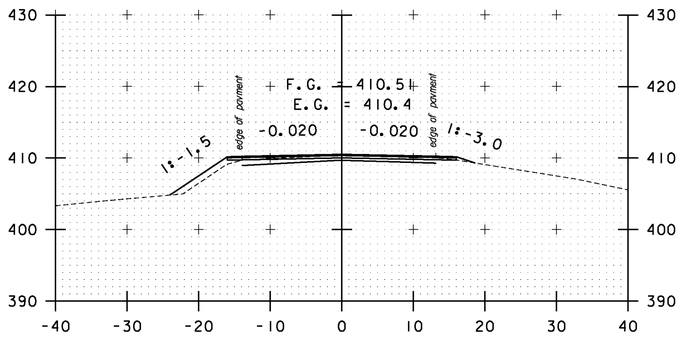
DRIVE RT
A 85+00



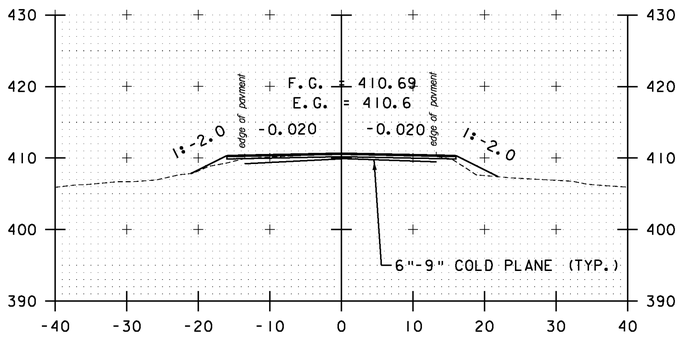
DRIVE LT
A 86+50



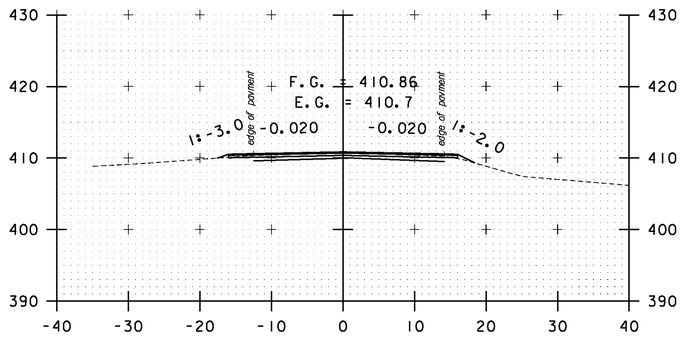
DRIVE LT
A 88+00



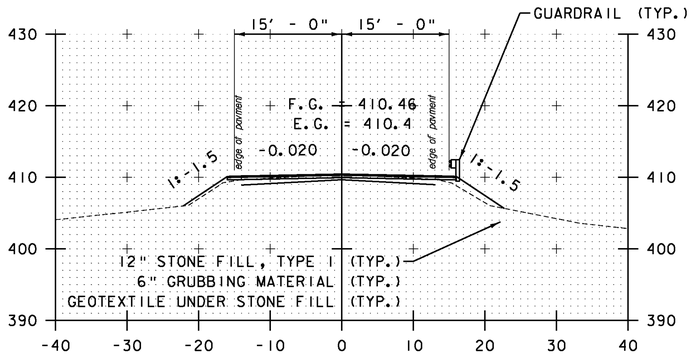
A 84+50



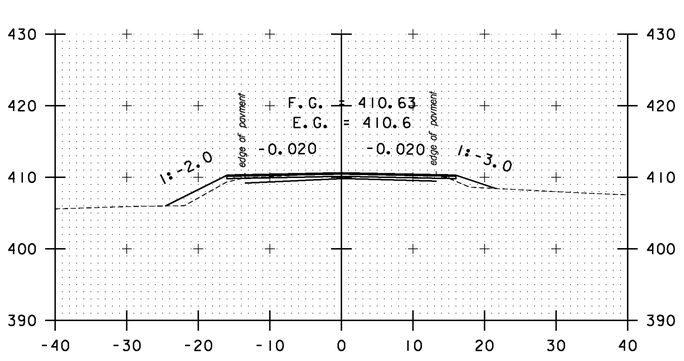
A 86+00



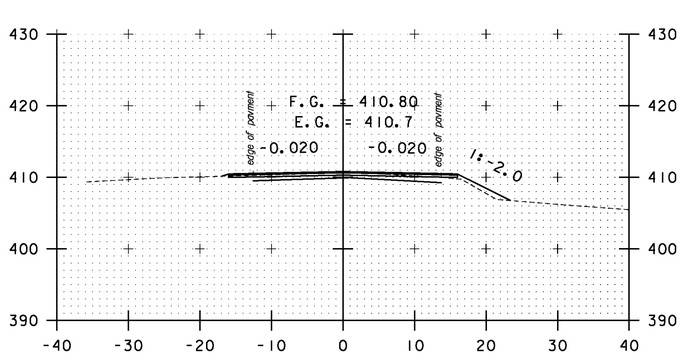
A 87+50



A 84+00



A 85+50



A 87+00

STA. A 84+00 TO STA. A 88+00

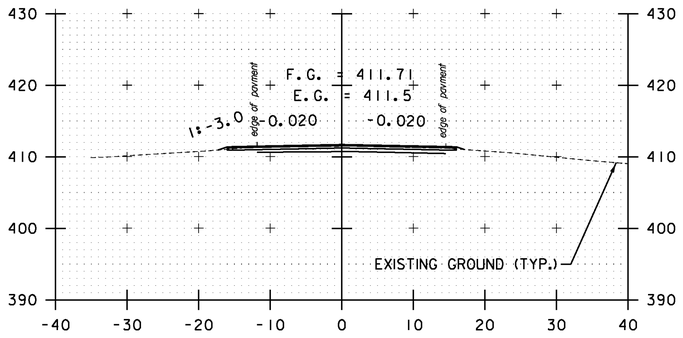
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 66

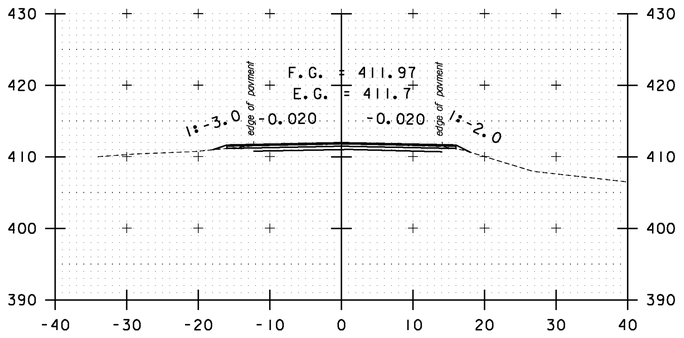
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_192.1

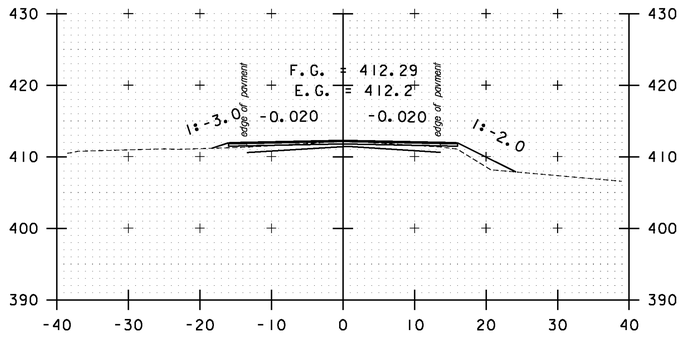
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 192 OF 217



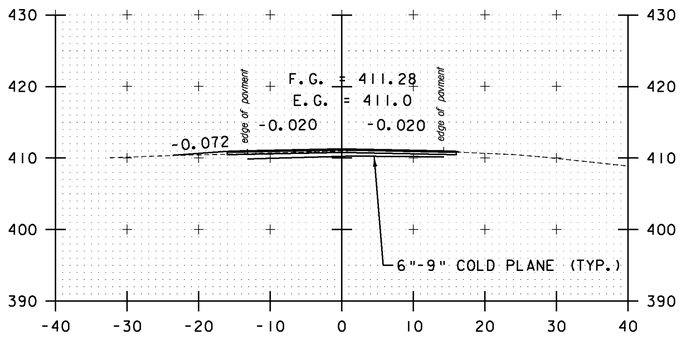
A 89+50



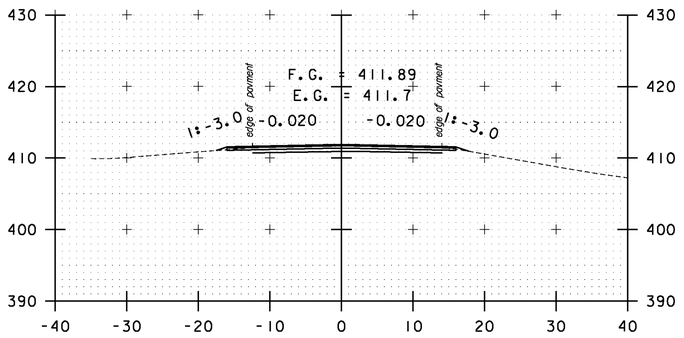
A 91+00



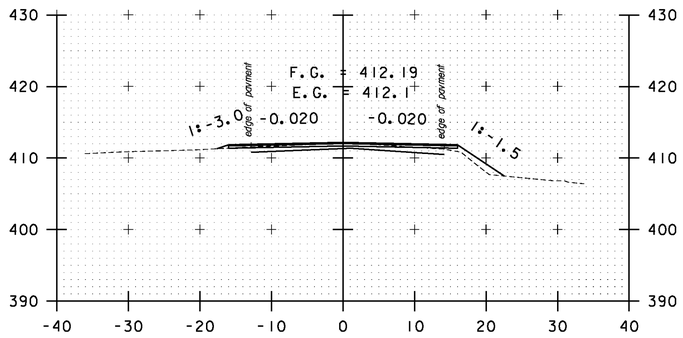
A 92+50



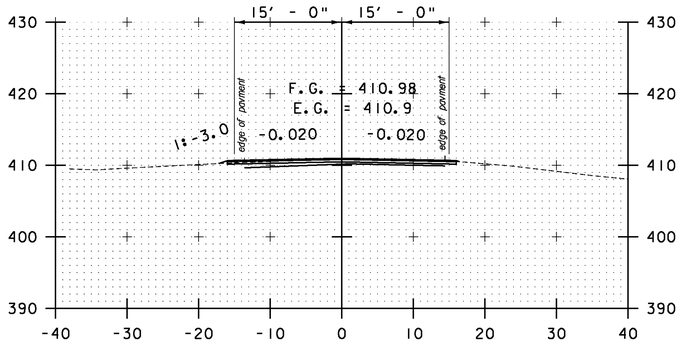
DRIVE LT
A 89+00



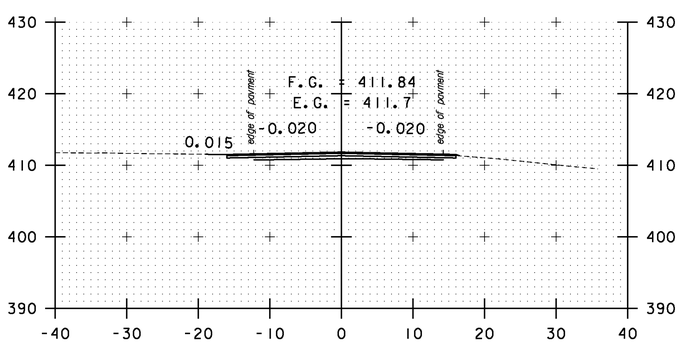
A 90+50



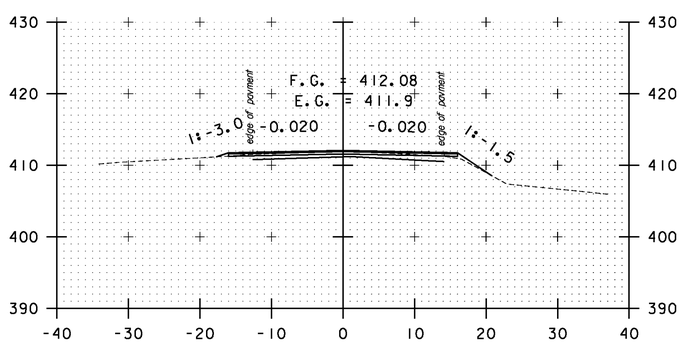
A 92+00



A 88+50



DRIVE LT
A 90+00



A 91+50

STA. A 88+50 TO STA. A 92+50

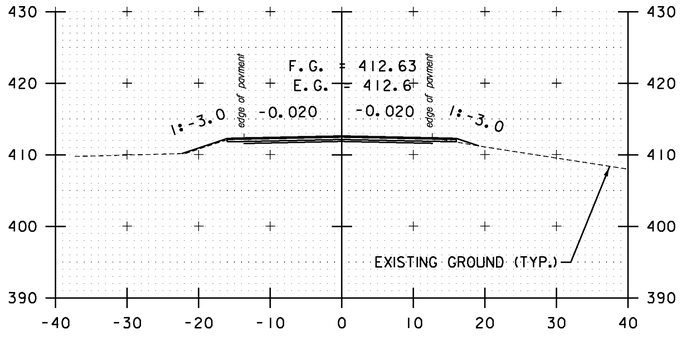
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 67

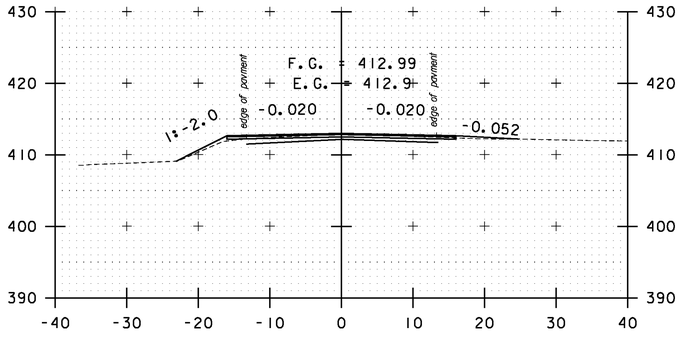
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_193.1

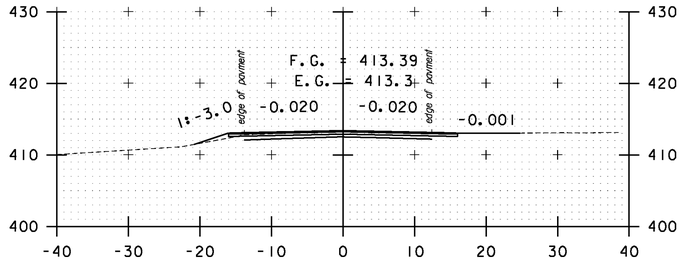
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 193 OF 217



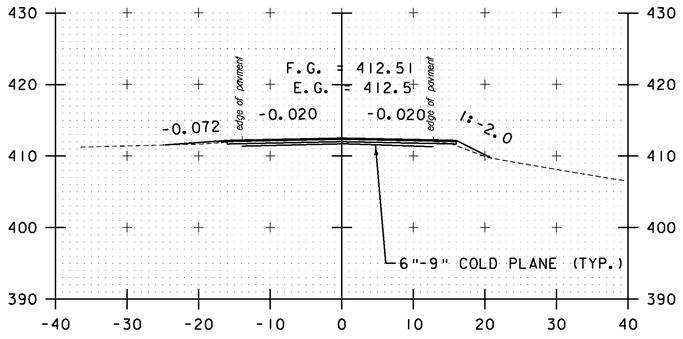
A 94+00



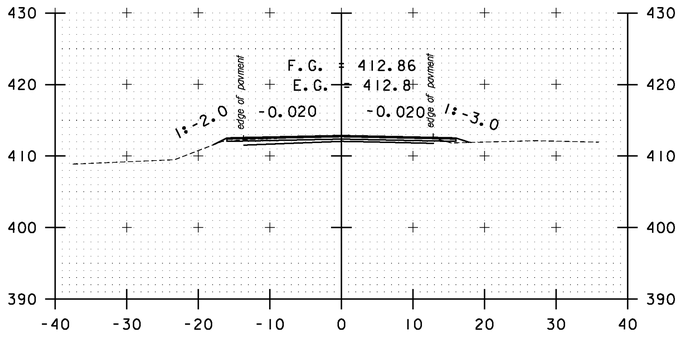
DRIVE RT
A 95+50



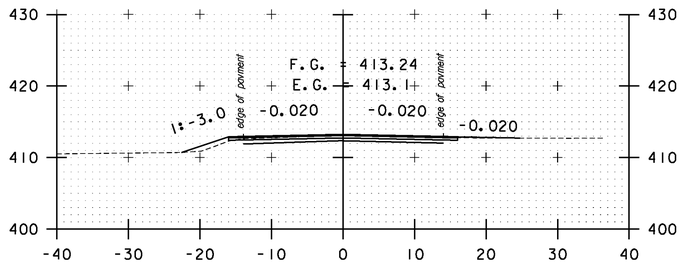
DRIVE RT
A 97+00



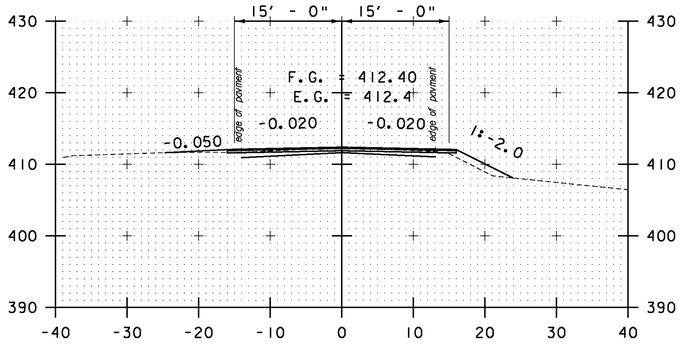
A 93+50



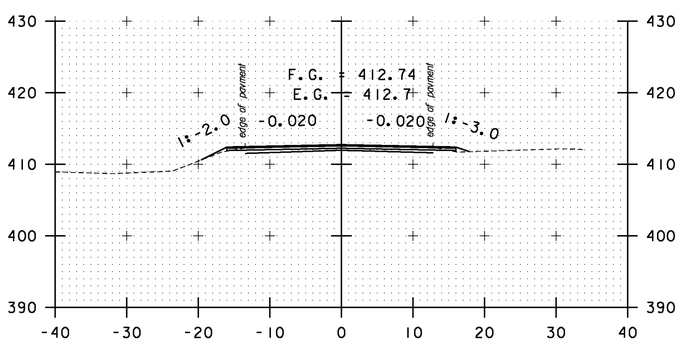
A 95+00



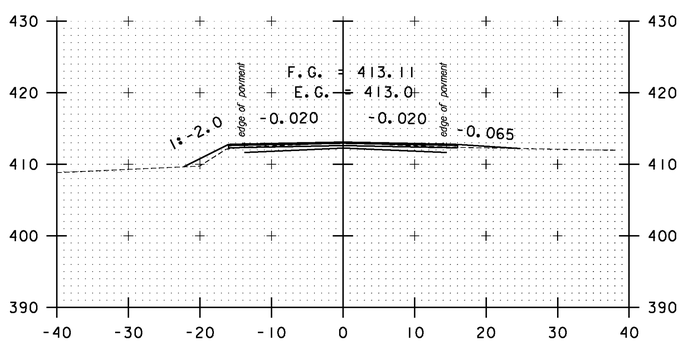
DRIVE RT
A 96+50



DRIVE LT
A 93+00



A 94+50



DRIVE RT
A 96+00

STA. A 93+00 TO STA. A 97+00

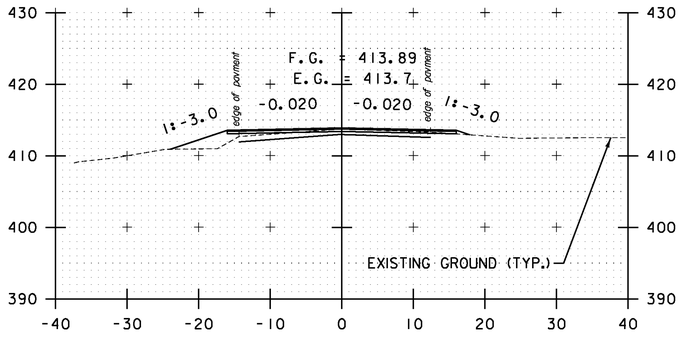
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 68

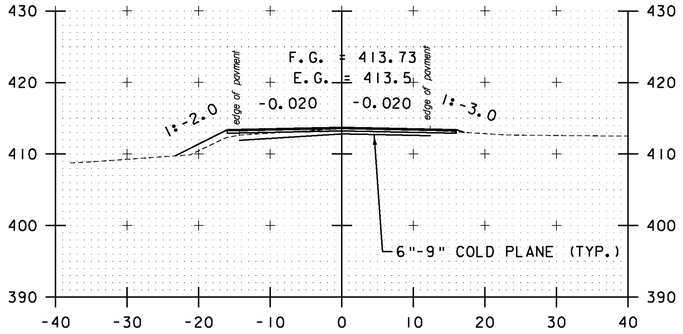
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_194.1

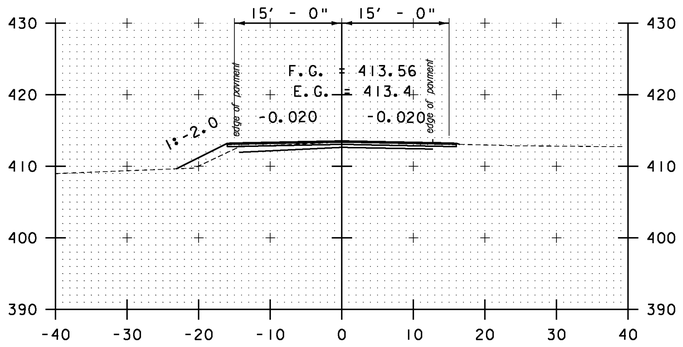
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 194 OF 217



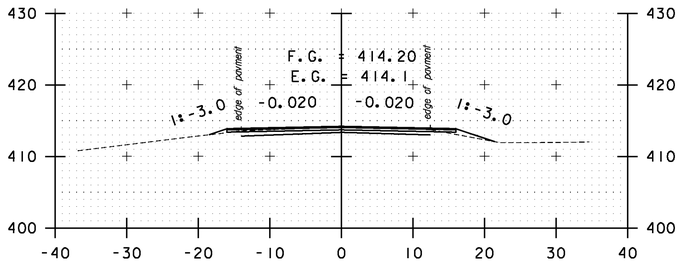
A 98+50



A 98+00

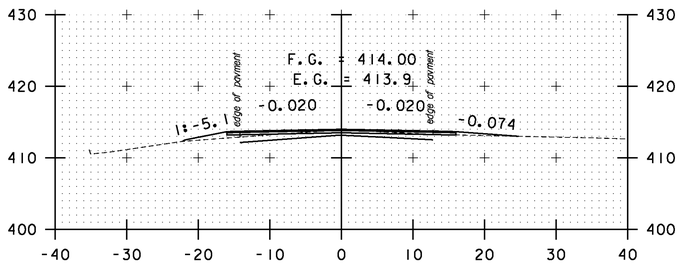


A 97+50

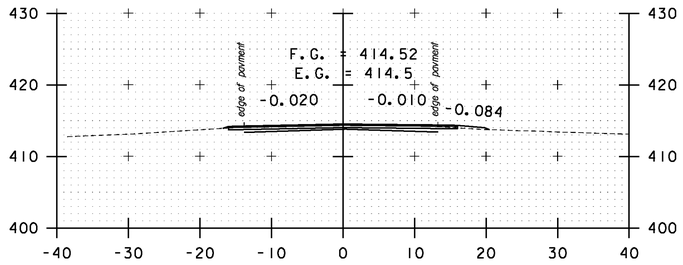


A 100+00

A 99+50

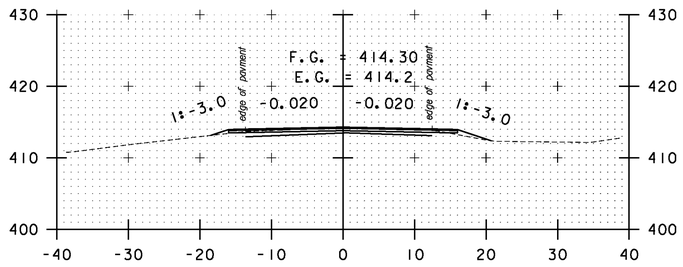


DRIVE LT / DRIVE RT
A 99+00



A 101+50
DRIVE RT

DRIVE RT
A 101+00



A 100+50

STA. A 97+50 TO STA. A 101+50

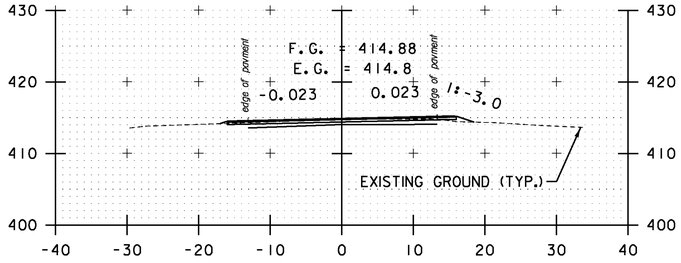
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 69

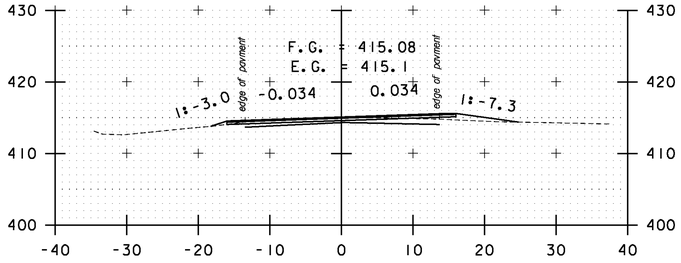
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_195.1

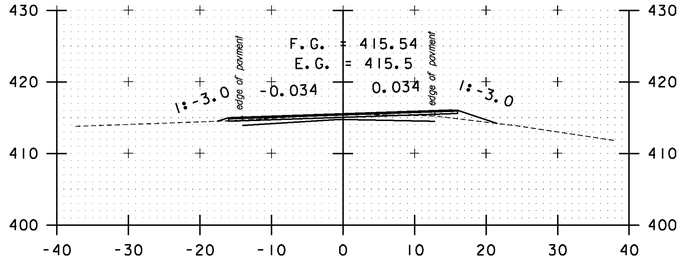
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 195 OF 217



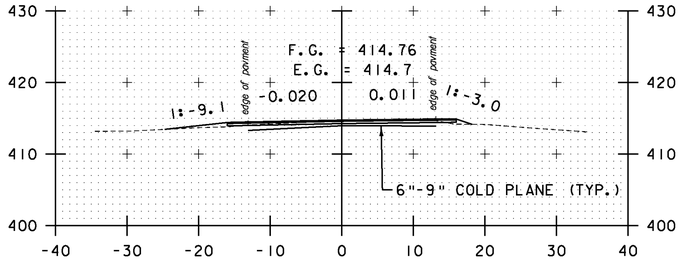
A 103+00



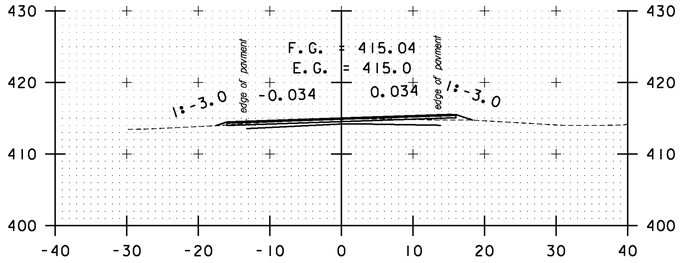
DRIVE RT
A 104+50



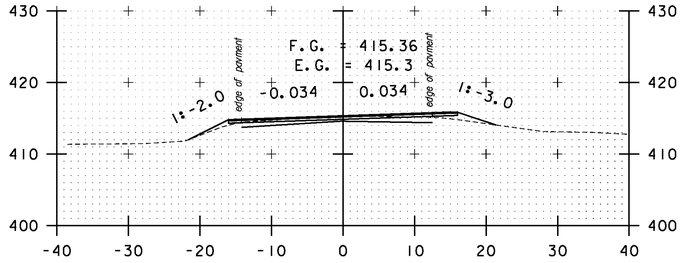
A 106+00



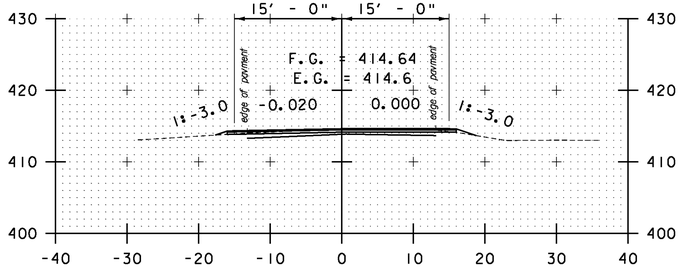
DRIVE LT
A 102+50



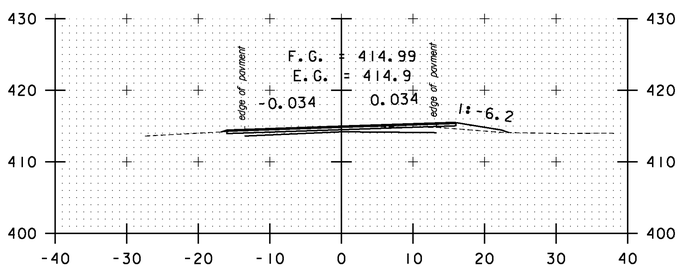
A 104+00



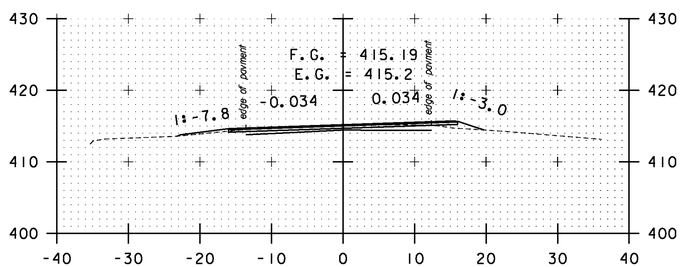
A 105+50



A 102+00



DRIVE RT
A 103+50



DRIVE LT
A 105+00

STA. A 102+00 TO STA. A 106+00

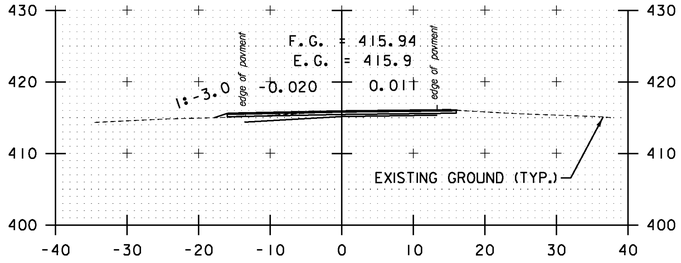
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 70

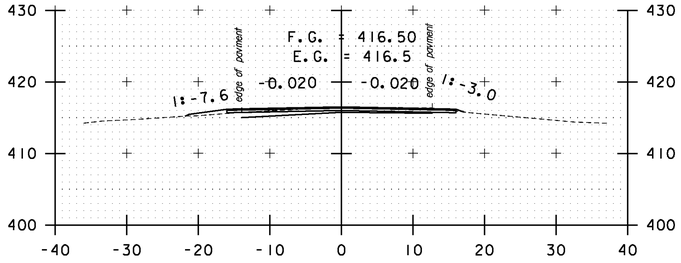
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_196.1

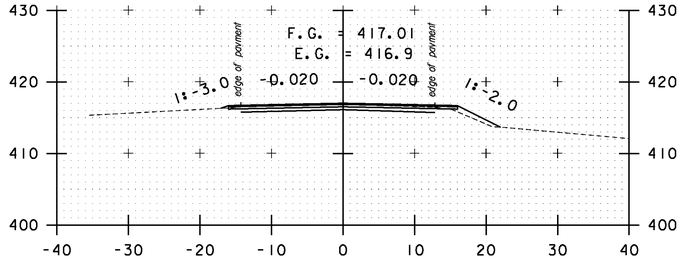
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 196 OF 217



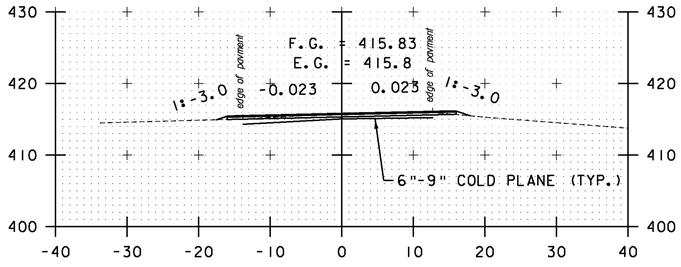
A 107+50



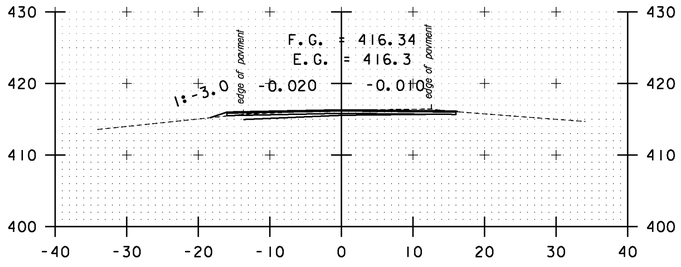
DRIVE LT
A 109+00



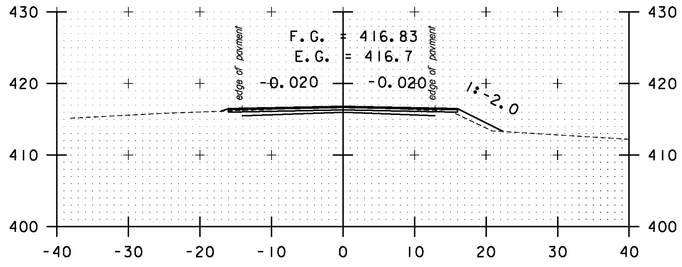
A 110+50



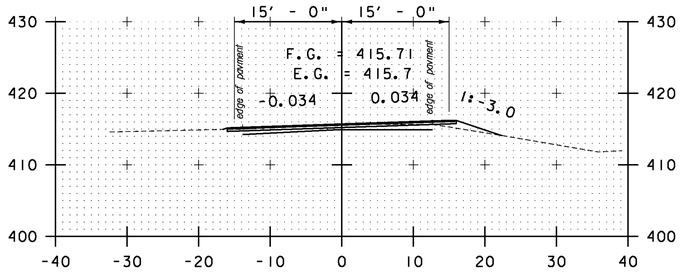
A 107+00



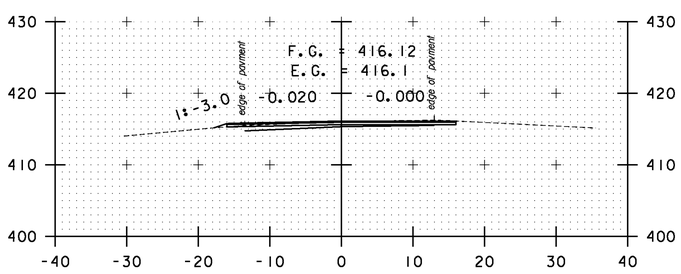
A 108+50



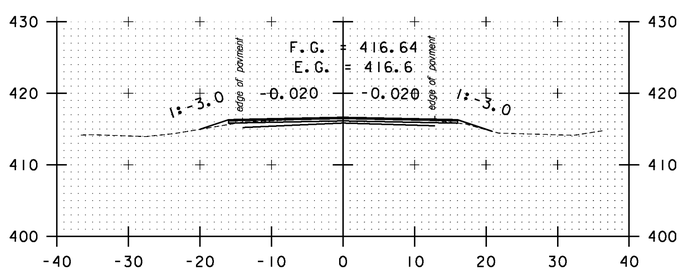
A 110+00



A 106+50



A 108+00



A 109+50

STA. A 106+50 TO STA. A 110+50

SCALE 1" = 10'-0

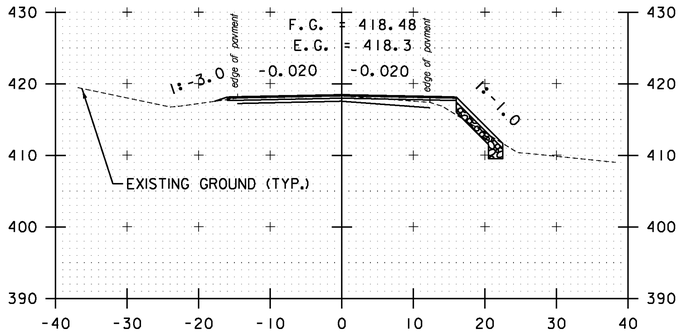
10 0 10

CROSS SECTION SHEET 71

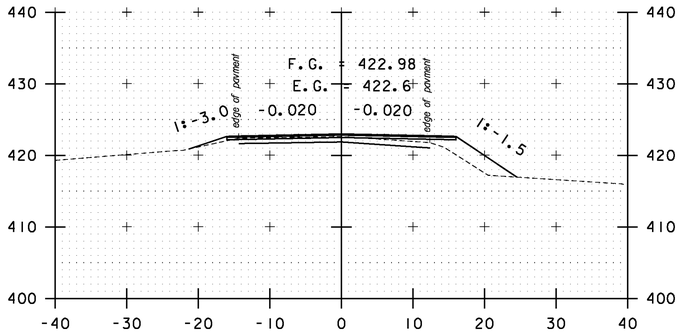
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_197.1

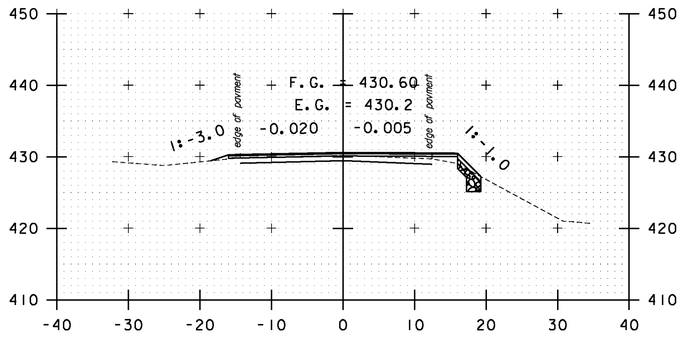
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 197 OF 217



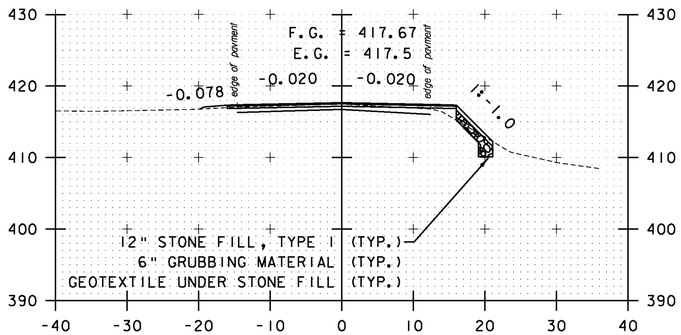
A 112+00



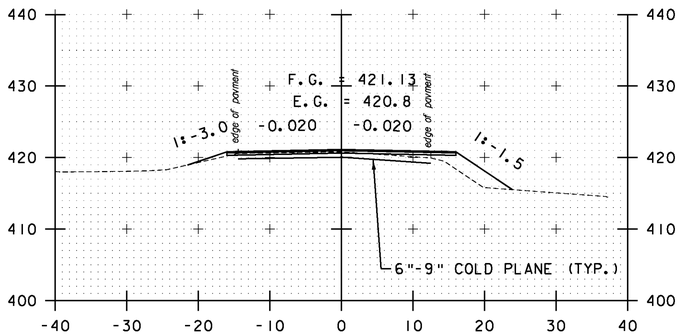
A 113+50



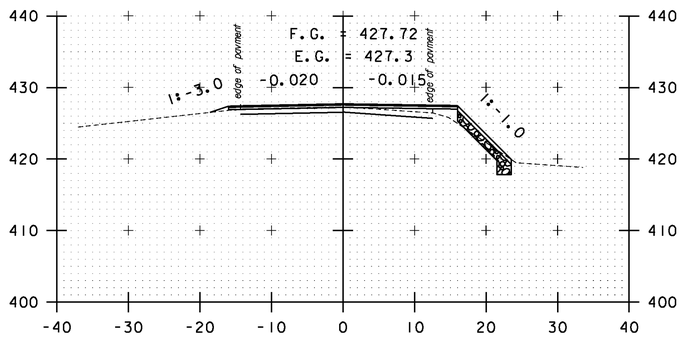
A 115+00



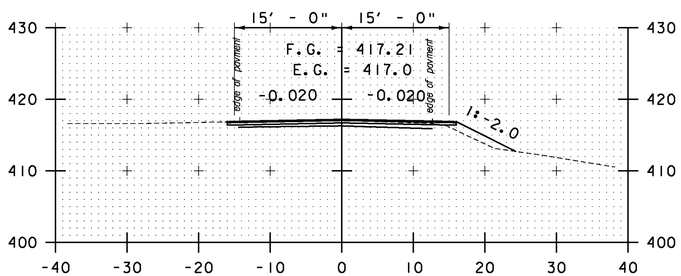
DRIVE LT
A 111+50



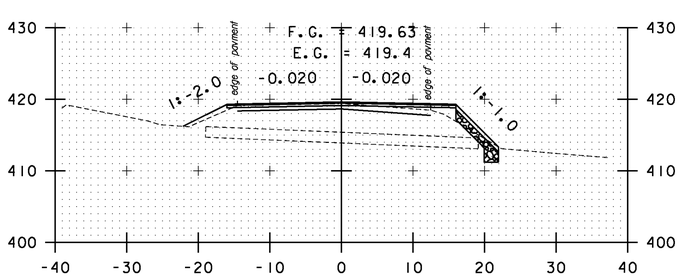
A 113+00



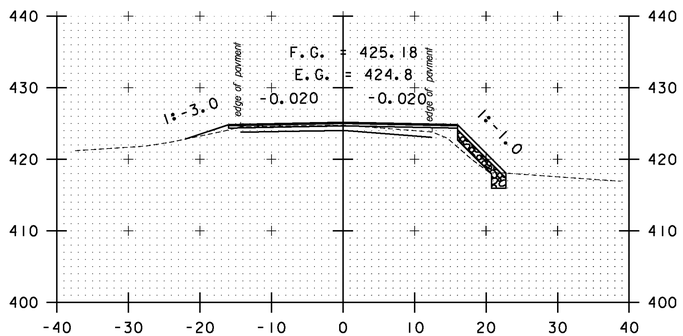
A 114+50



A 111+00



A 112+50



A 114+00

STA. A 111+00 TO STA. A 115+00

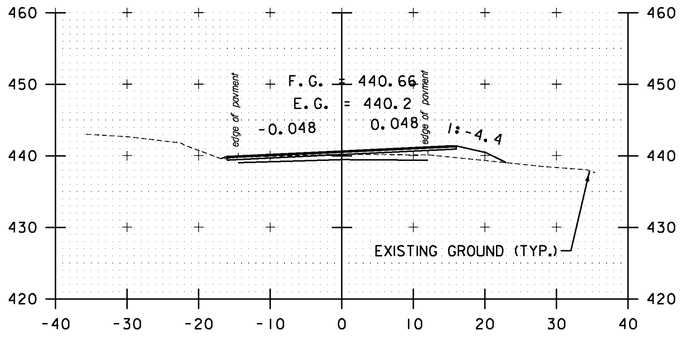
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 72

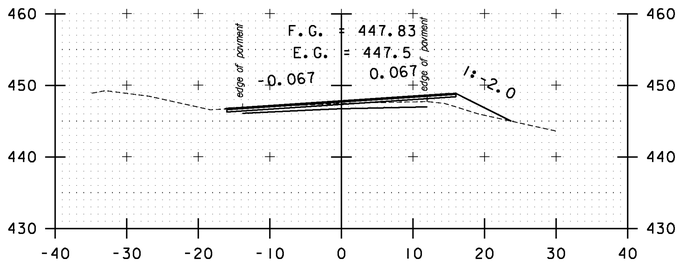
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_198.1

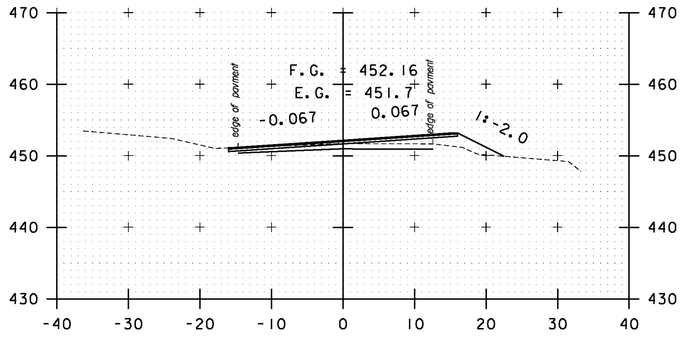
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 198 OF 217



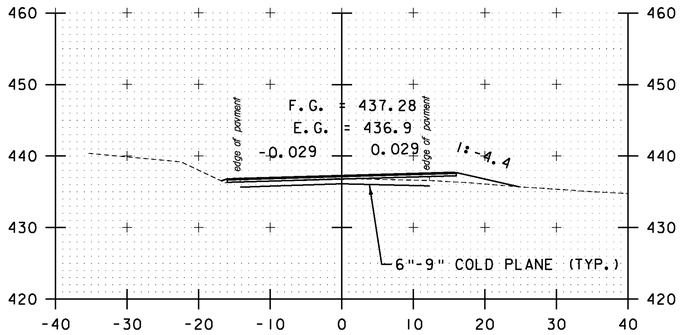
DRIVE RT
A 116+50



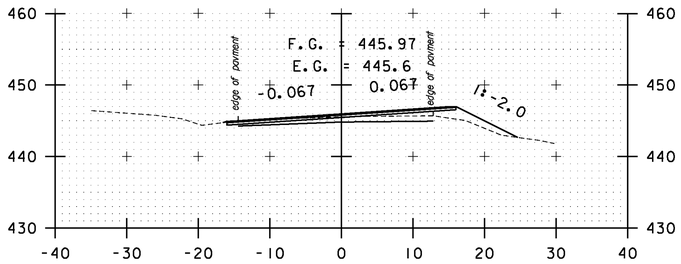
A 118+00



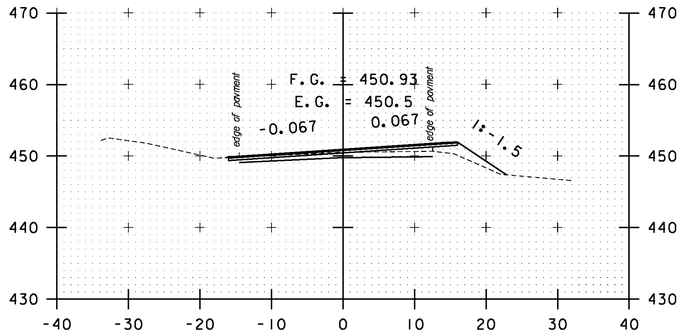
A 119+50



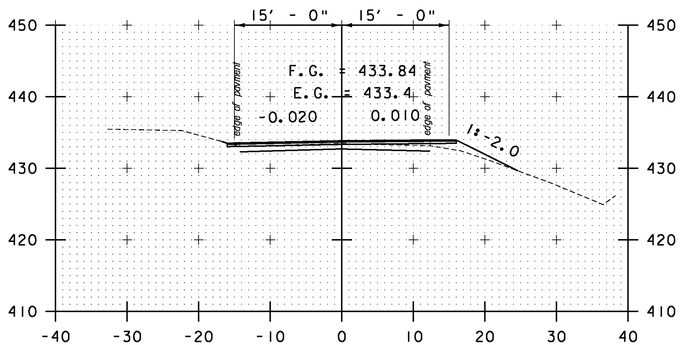
DRIVE RT
A 116+00



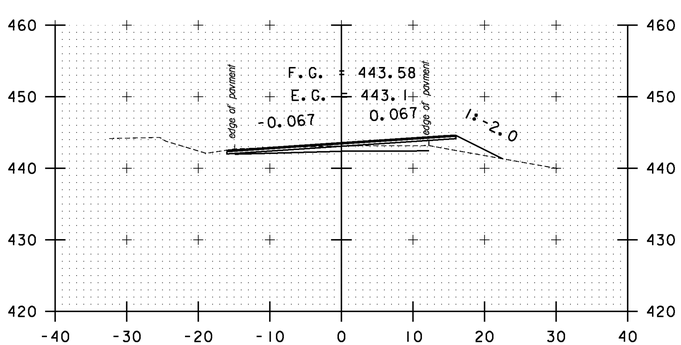
A 117+50



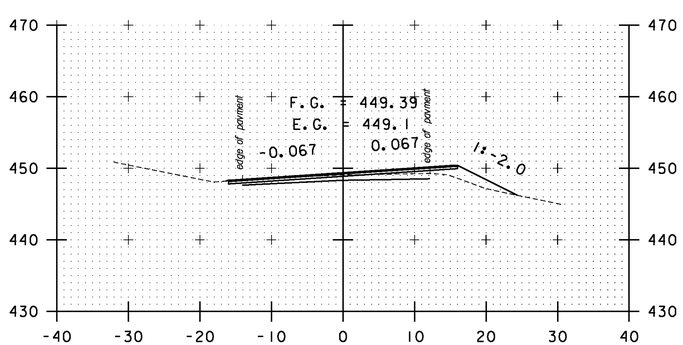
A 119+00



A 115+50



A 117+00



A 118+50

STA. A 115+50 TO STA. A 119+50

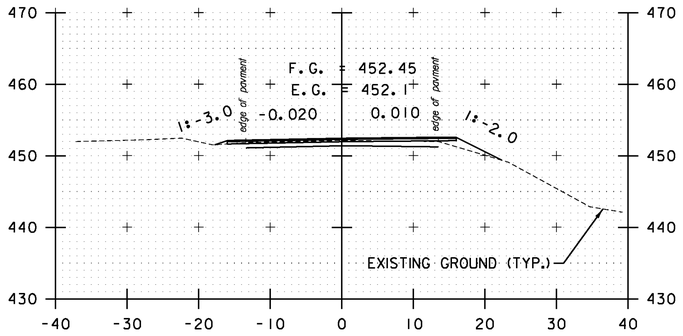
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 73

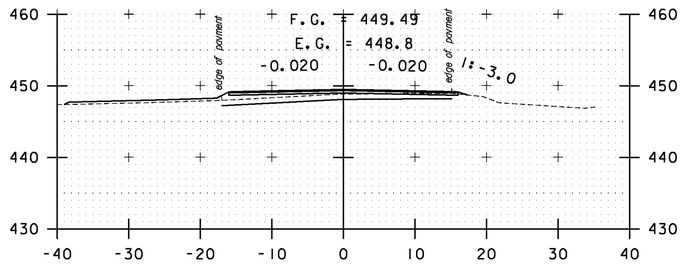
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_199.1

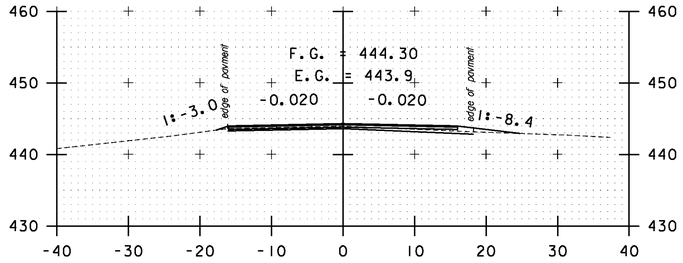
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 199 OF 217



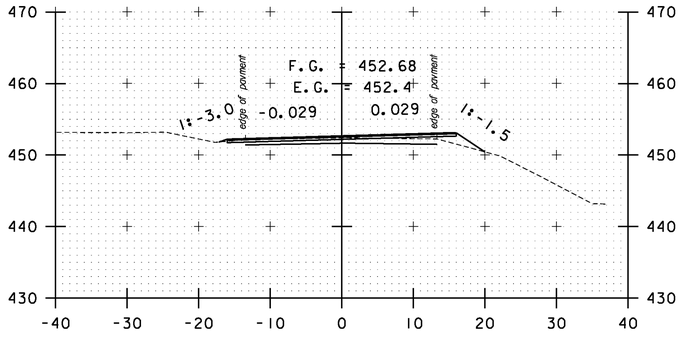
A 121+00



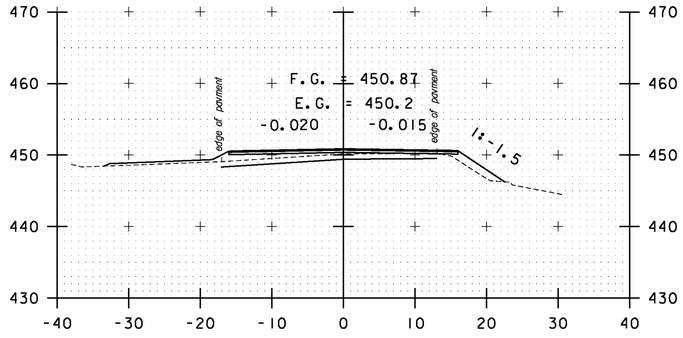
PULL OFF LT
A 122+50



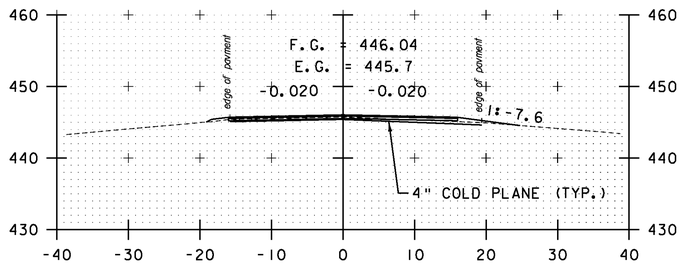
DRIVE RT
A 124+00



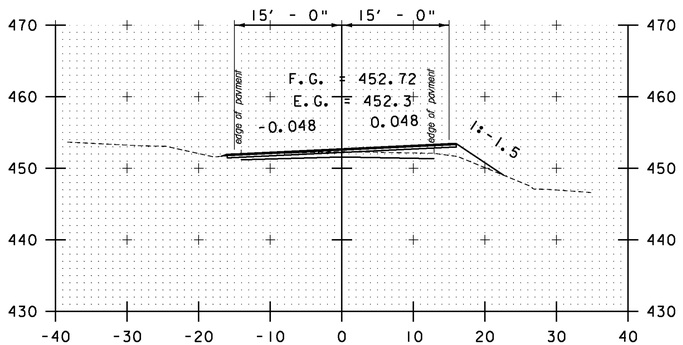
A 120+50



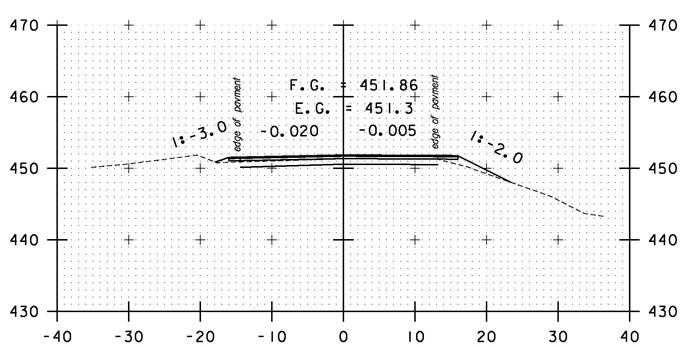
PULL OFF LT
A 122+00



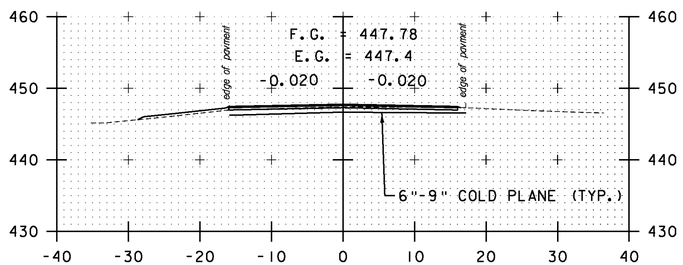
PULL OFF LT / DRIVE RT
A 123+50



A 120+00



A 121+50



PULL OFF LT
A 123+00

STA. A 120+00 TO STA. A 124+00

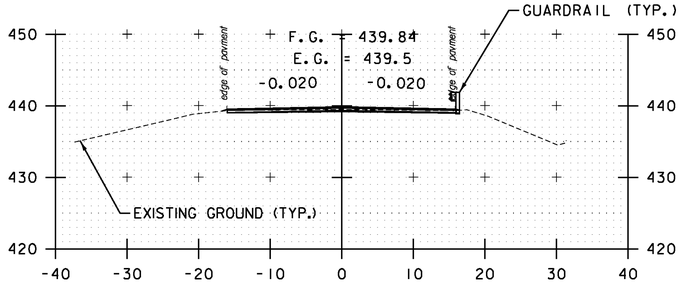
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 74

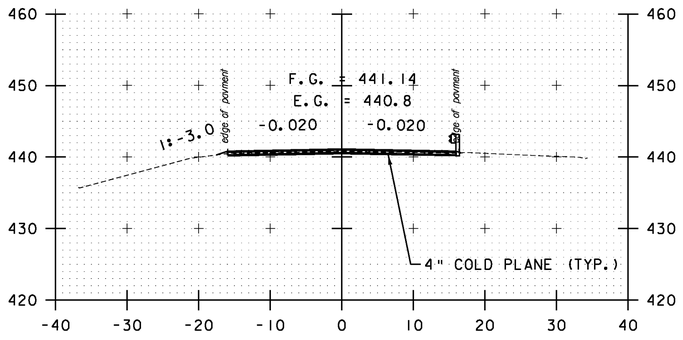
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_200.i

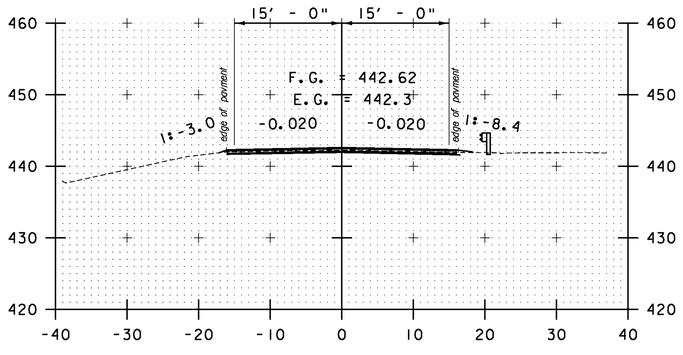
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 200 OF 217



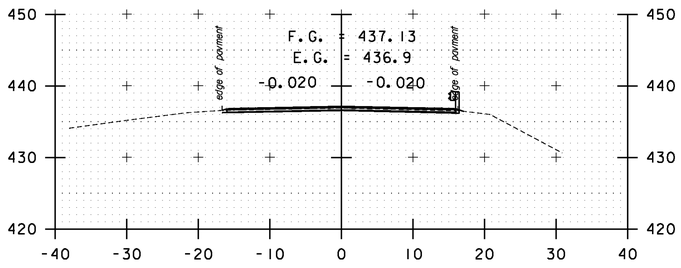
A 125+50



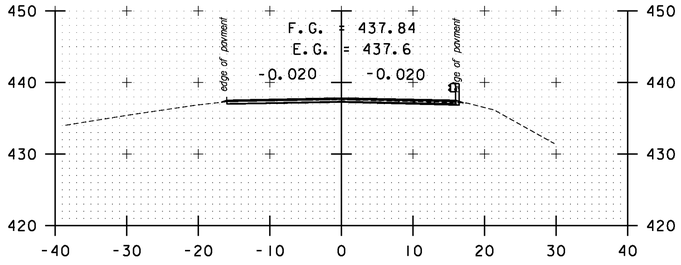
A 125+00



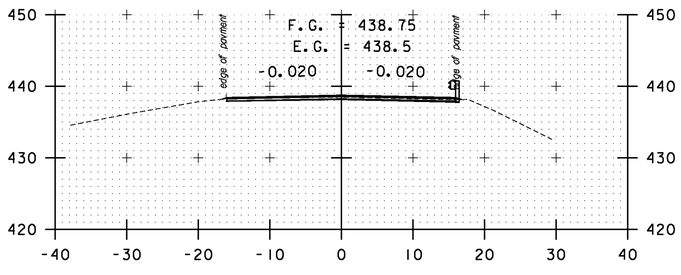
DRIVE RT
A 124+50



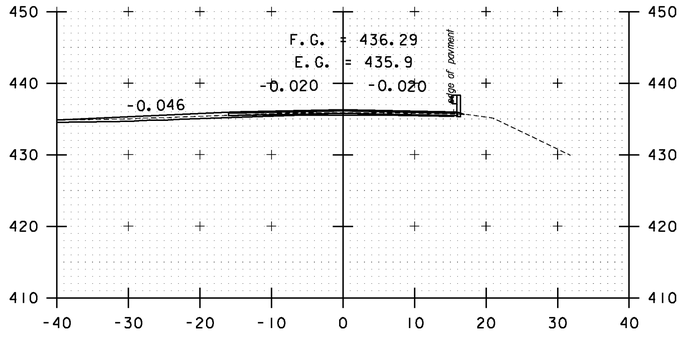
A 127+00



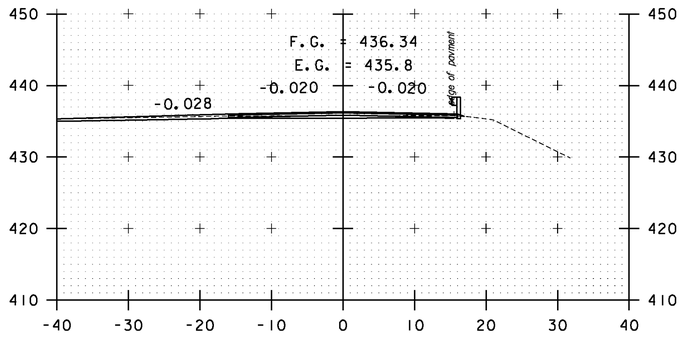
A 126+50



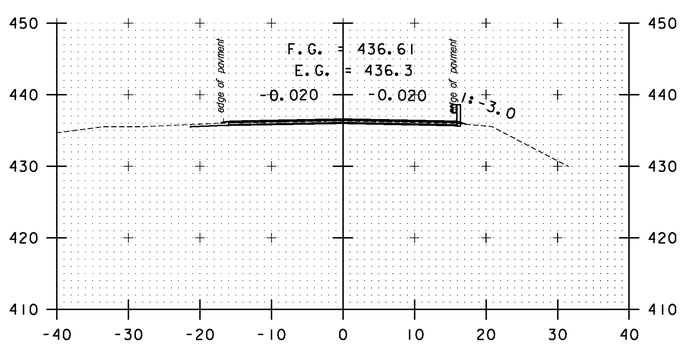
A 126+00



TH#7 LT
A 128+00



TH#7 LT
A 127+90



TH#7 LT
A 127+50

STA. A 124+50 TO STA. A 128+00

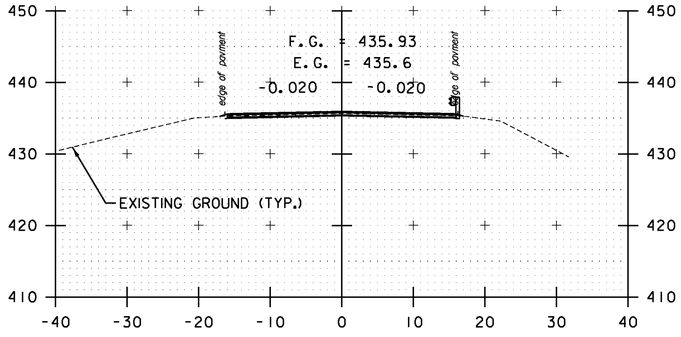
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 75

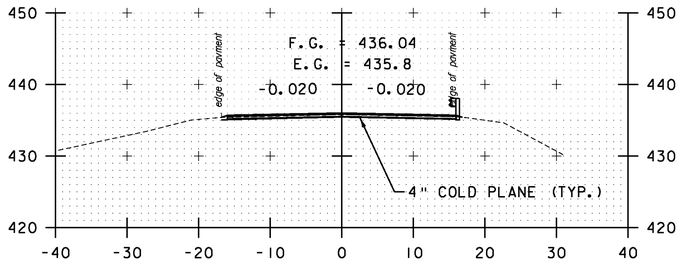
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_201.1

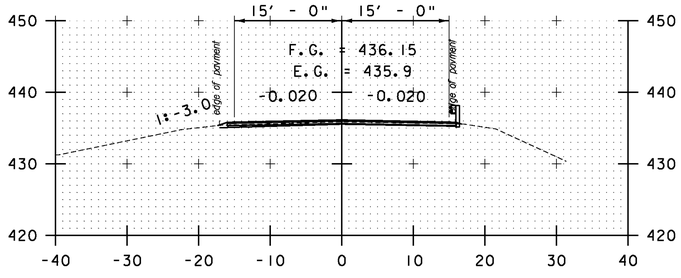
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 201 OF 217



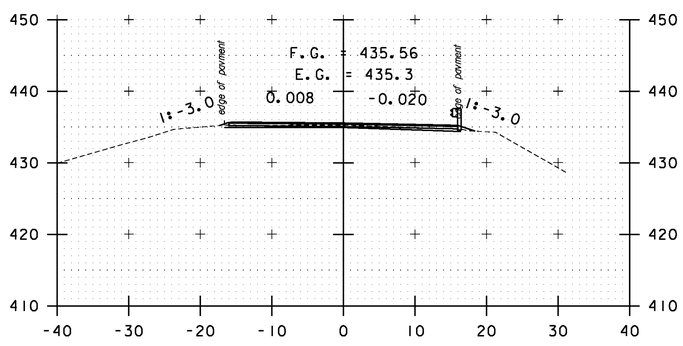
A 129+50



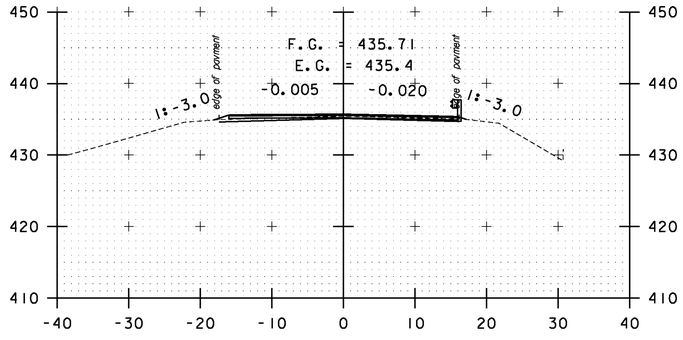
A 129+00



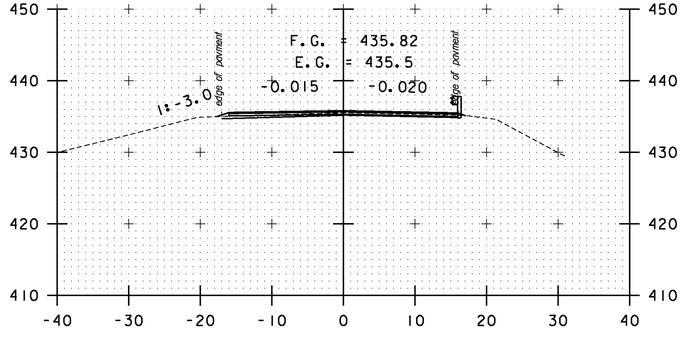
A 128+50



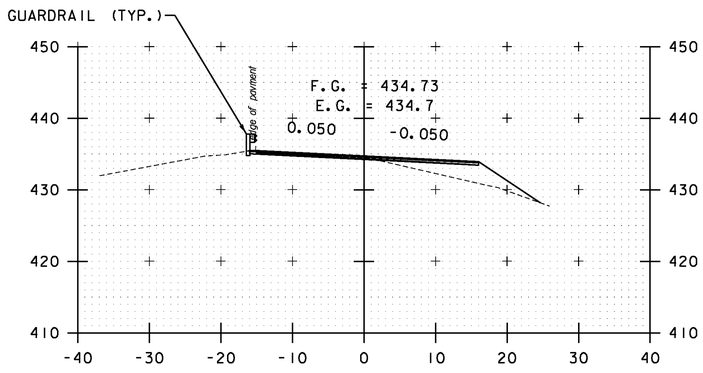
A 131+00



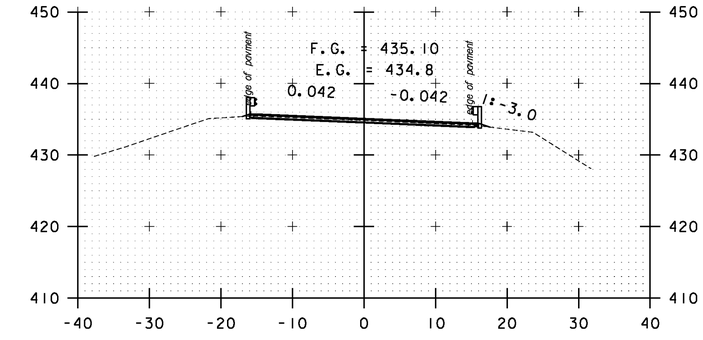
A 130+50



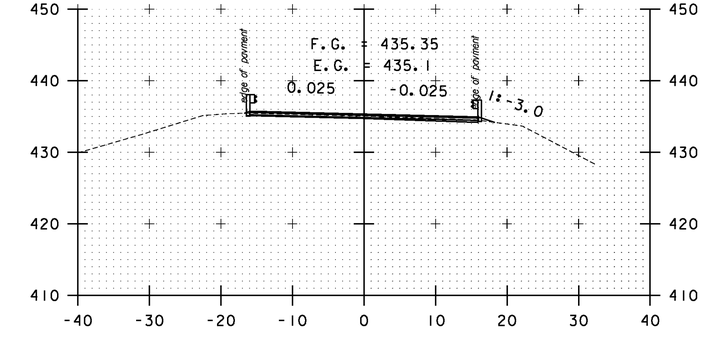
A 130+00



A 132+50



A 132+00



A 131+50

STA. A 128+50 TO STA. A 132+50

SCALE 1" = 10'-0

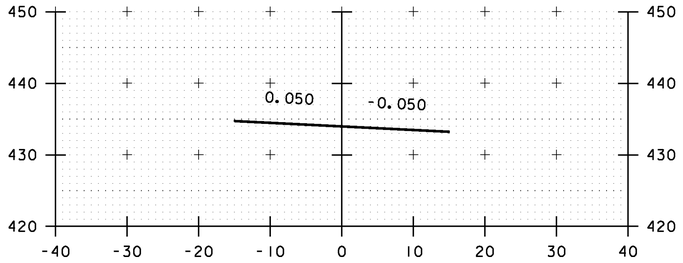
10 0 10

CROSS SECTION SHEET 76

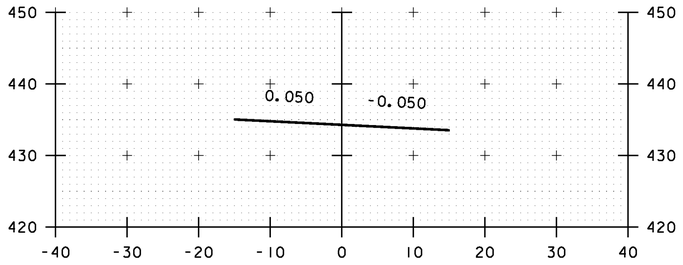
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_202.i

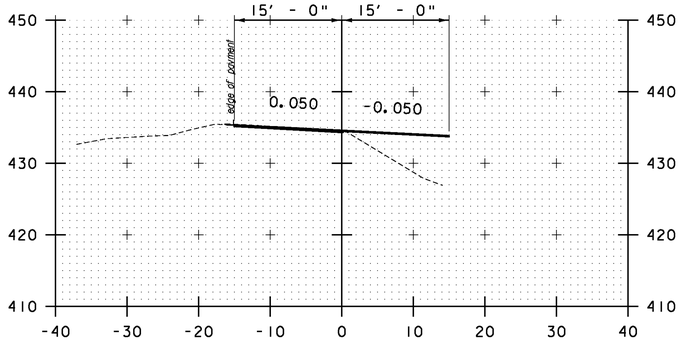
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 202 OF 217



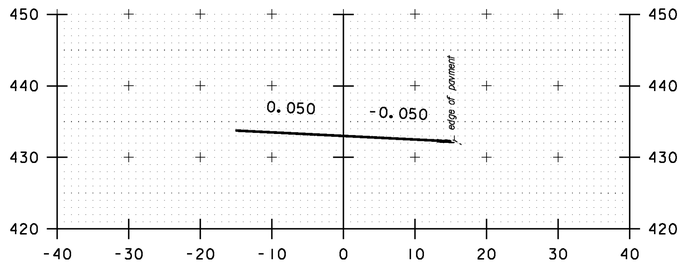
BRIDGE #44
A 133+50



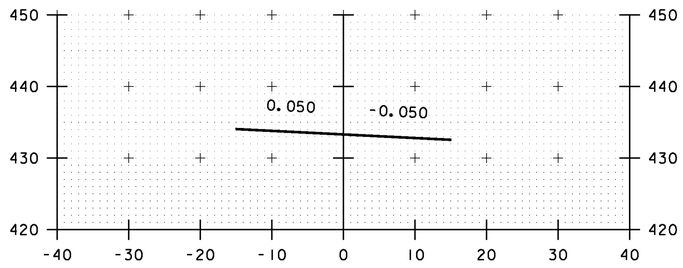
BRIDGE #44
A 133+00



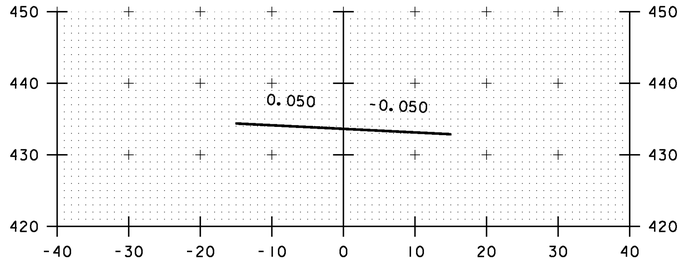
BRIDGE #44
A 132+62



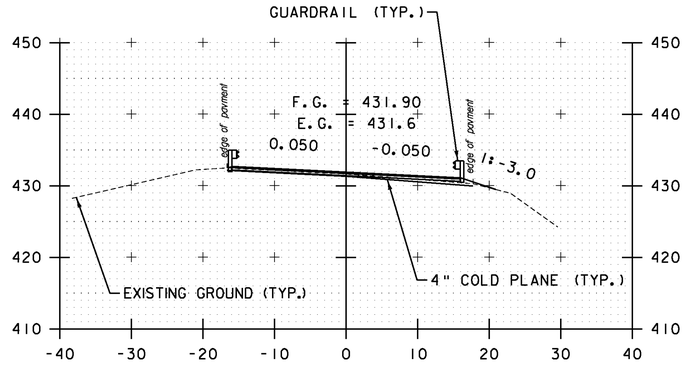
BRIDGE #44
A 135+00



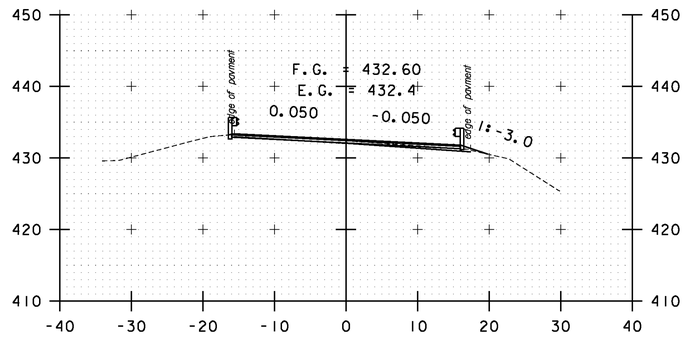
BRIDGE #44
A 134+50



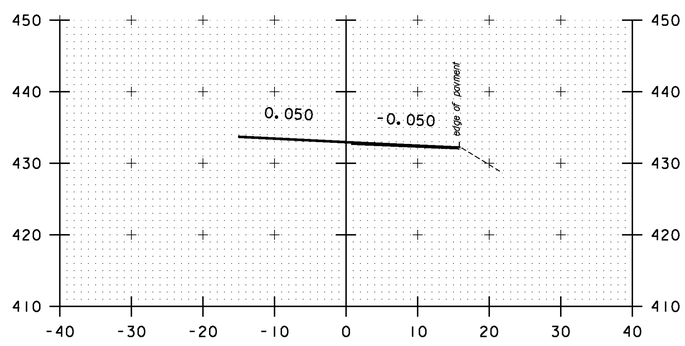
BRIDGE #44
A 134+00



A 136+00



A 135+50



BRIDGE #44
A 135+05

STA. A 132+62 TO STA. A 136+00

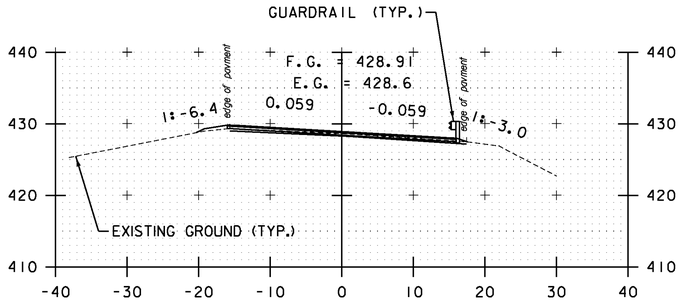
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 77

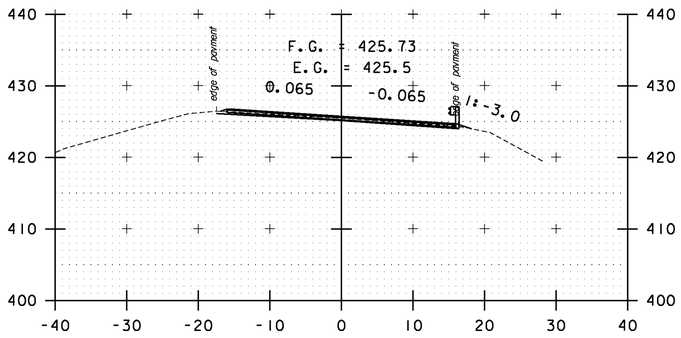
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_203.1

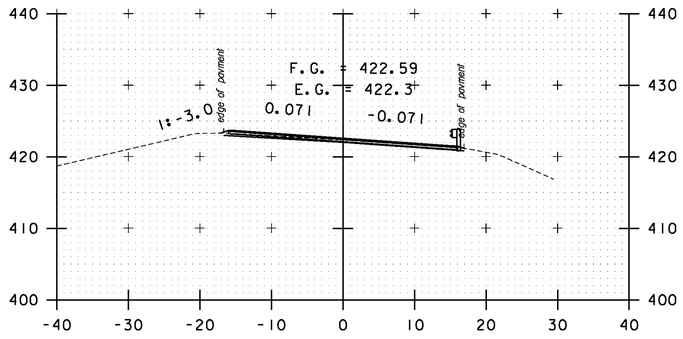
PLOT DATE: 4/17/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 203 OF 217



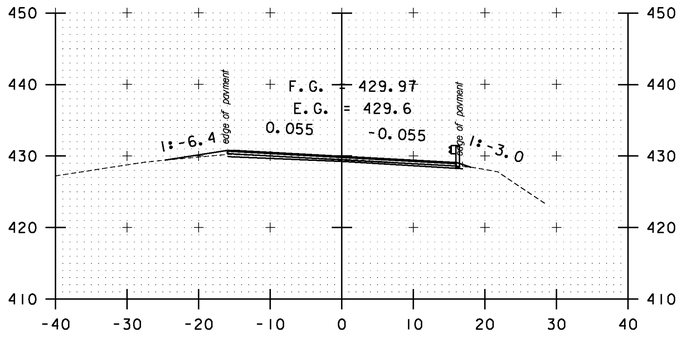
DRIVE LT
A 137+50



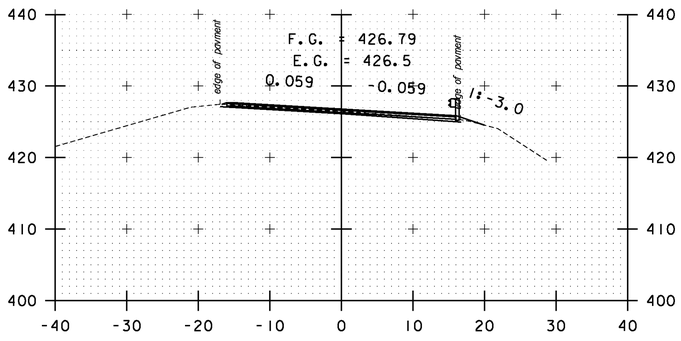
A 139+00



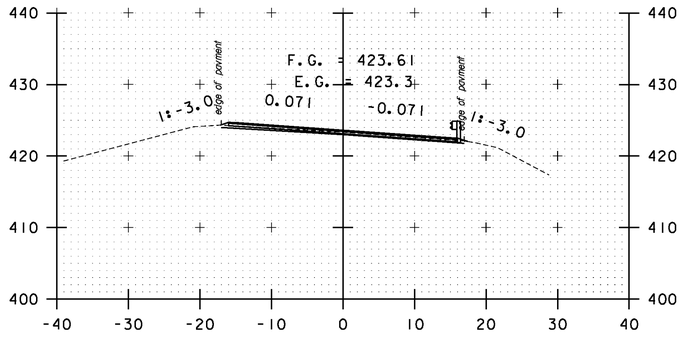
A 140+50



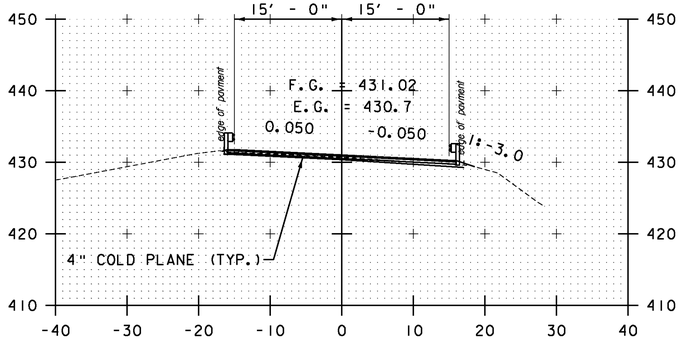
DRIVE LT
A 137+00



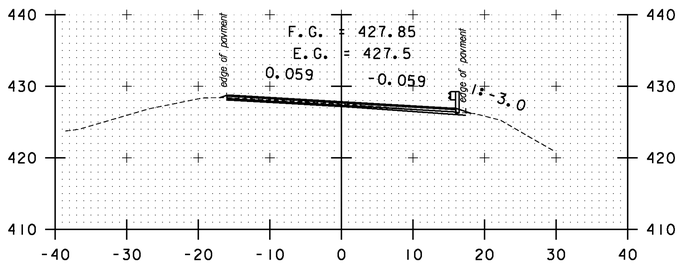
A 138+50



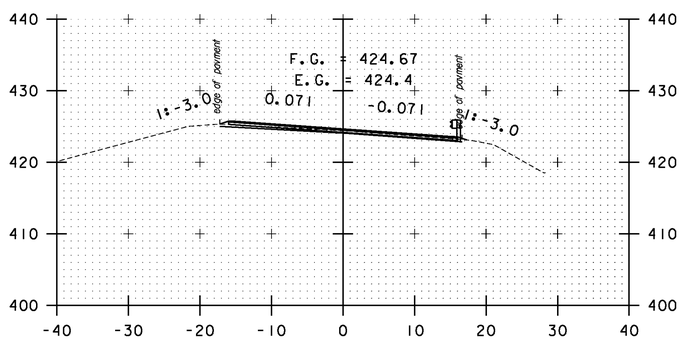
A 140+00



A 136+50



A 138+00



A 139+50

STA. A 136+50 TO STA. A 140+50

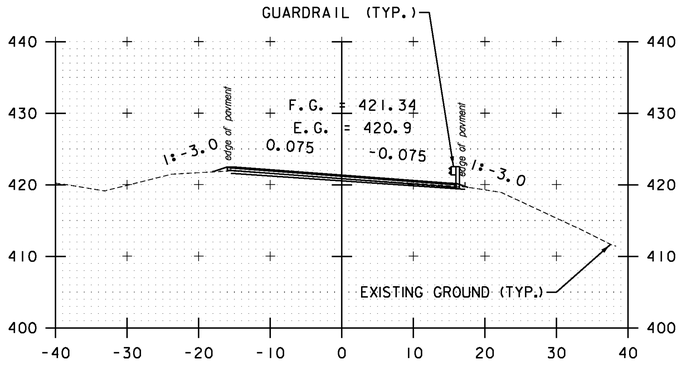
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 78

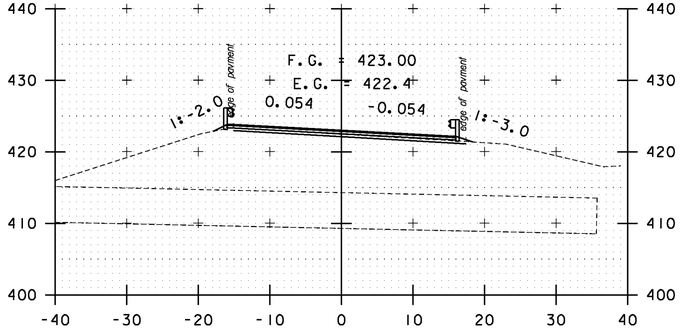
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_204.i

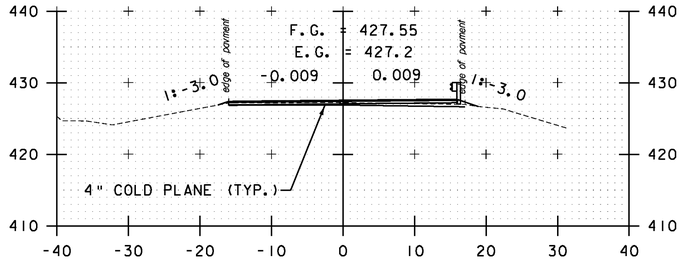
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 204 OF 217



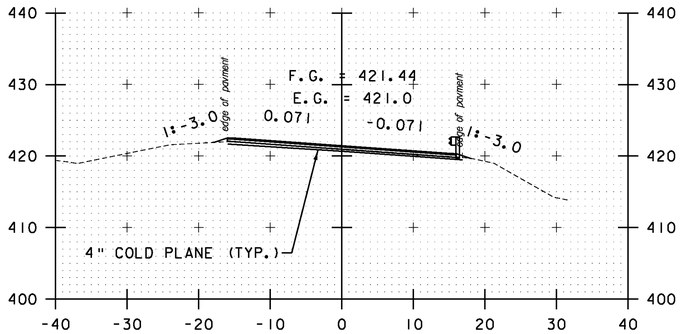
A 142+00



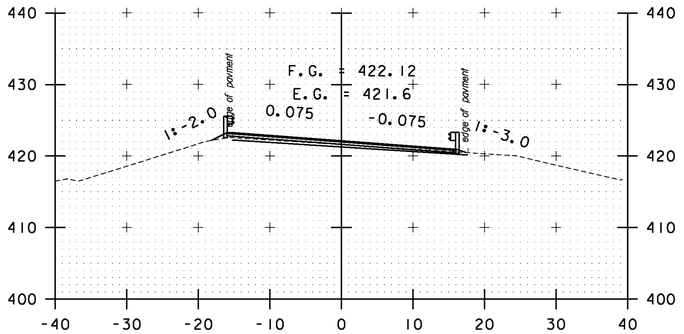
A 143+50



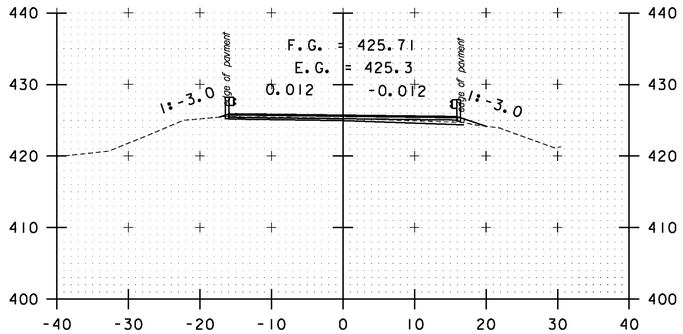
A 145+00



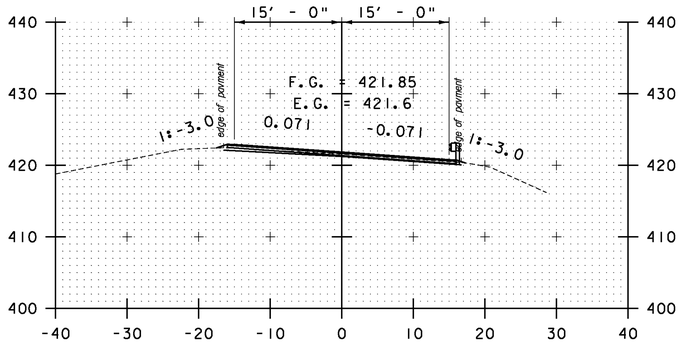
A 141+50



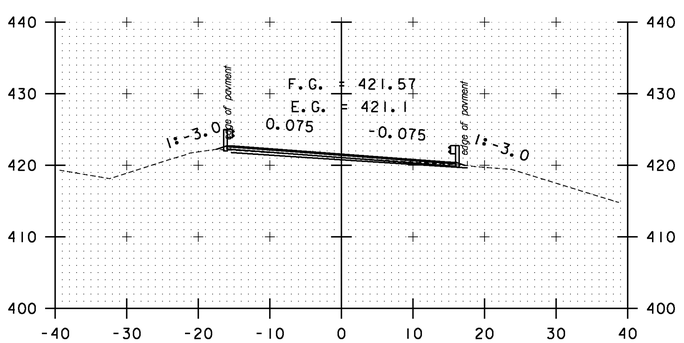
A 143+00



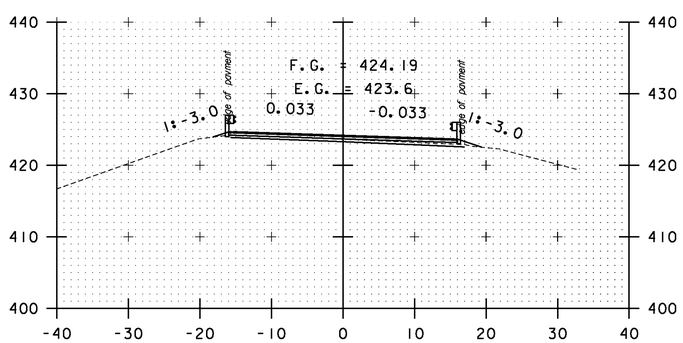
A 144+50



A 141+00



A 142+50



A 144+00

STA. A 141+00 TO STA. A 145+00

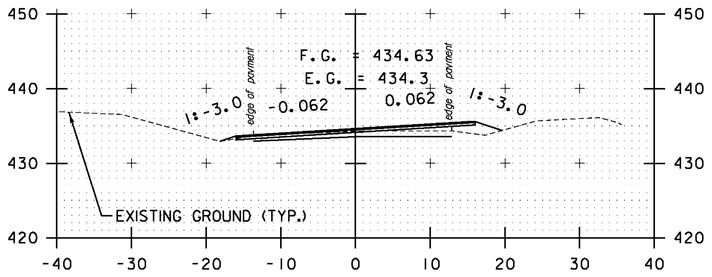
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 79

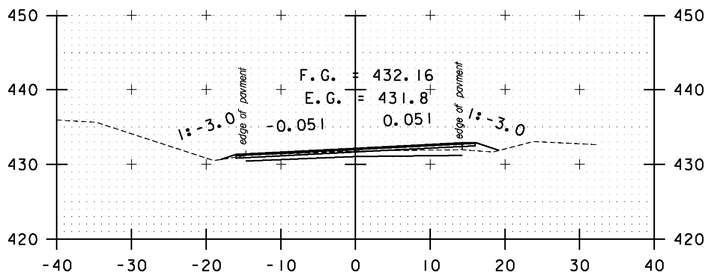
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_205.1

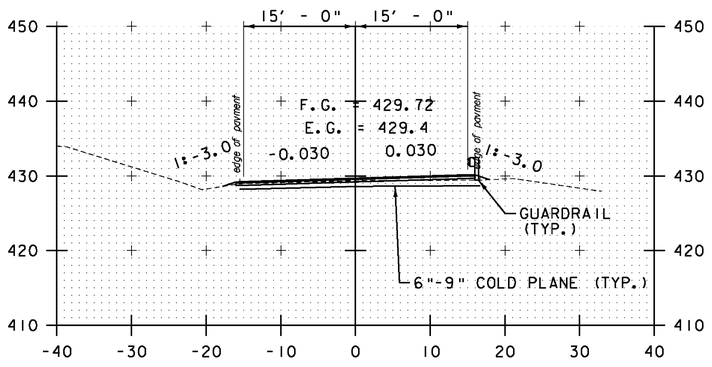
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 205 OF 217



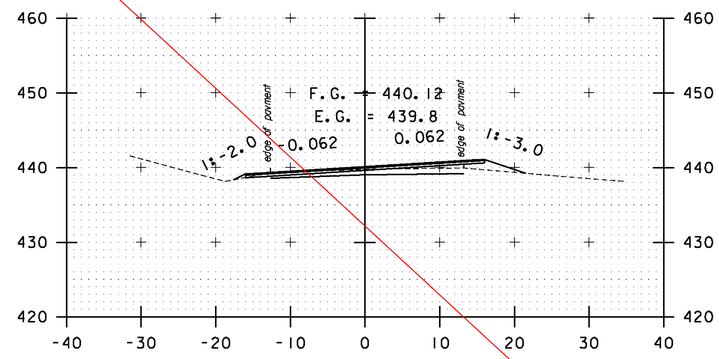
A 146+50



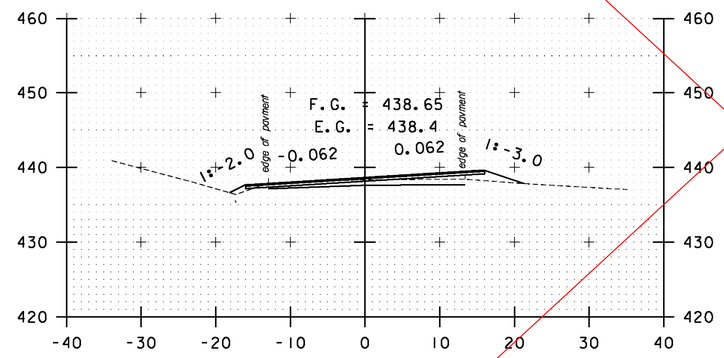
A 146+00



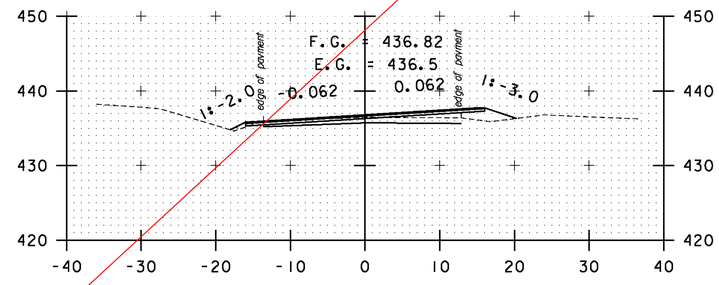
A 145+50



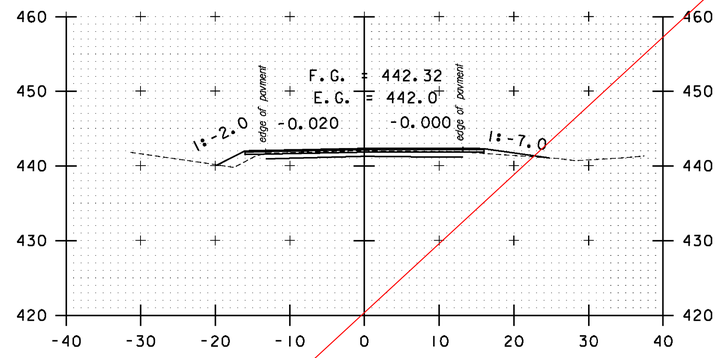
A 148+00



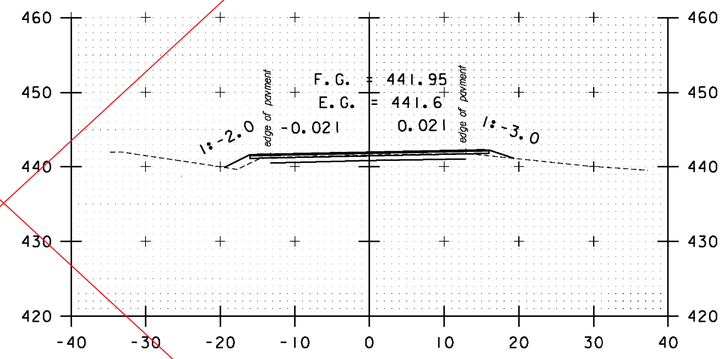
A 147+50



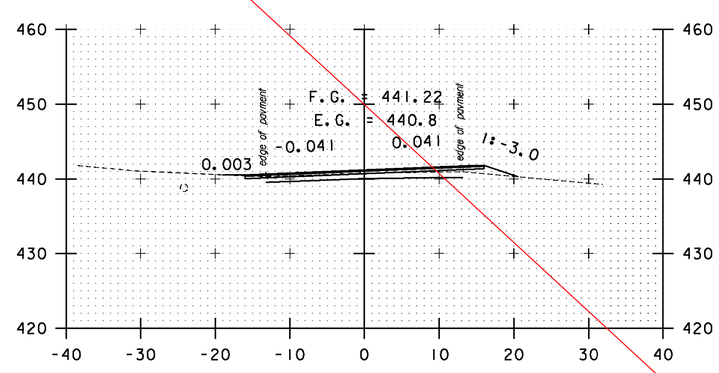
A 147+00



DRIVE RT
A 149+50



A 149+00



DRIVE LT
A 148+50

SEE SHEETS 206A1-206A6 & 207A1
FOR AMENDED CROSS SECTIONS
A 147+00 - A 149+50

STA. A 145+50 TO STA. A 149+50

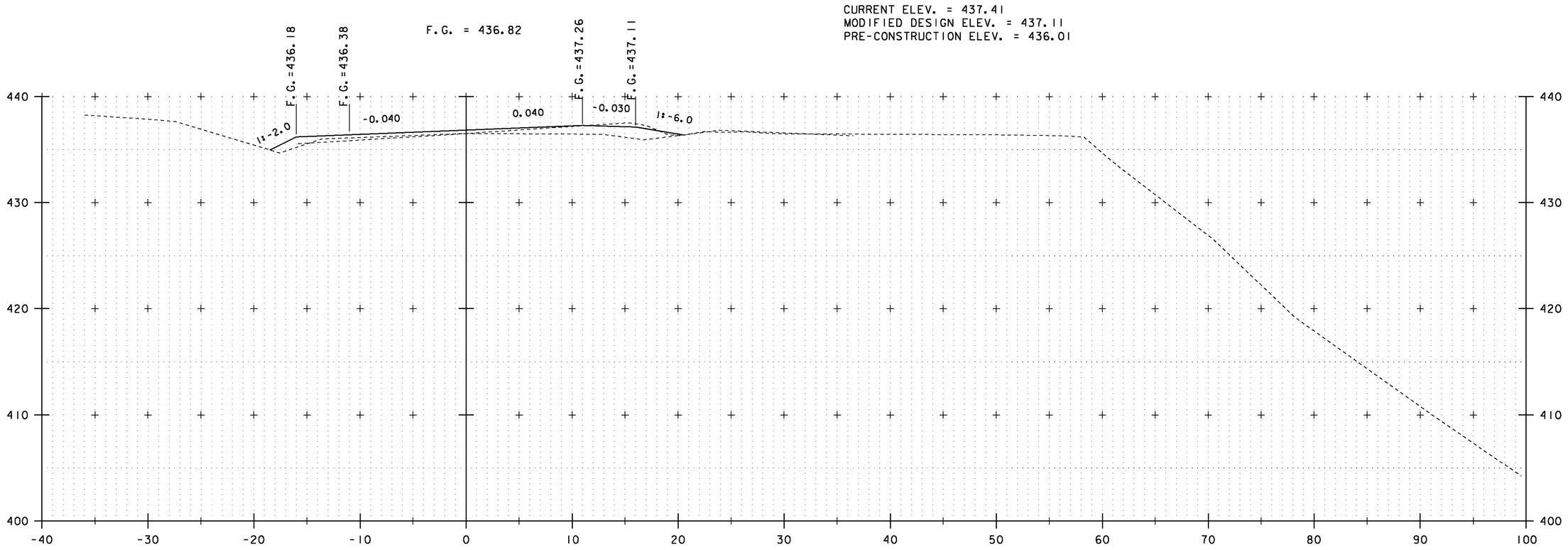
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 80

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_206.1

PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 206 OF 217



A 147+00

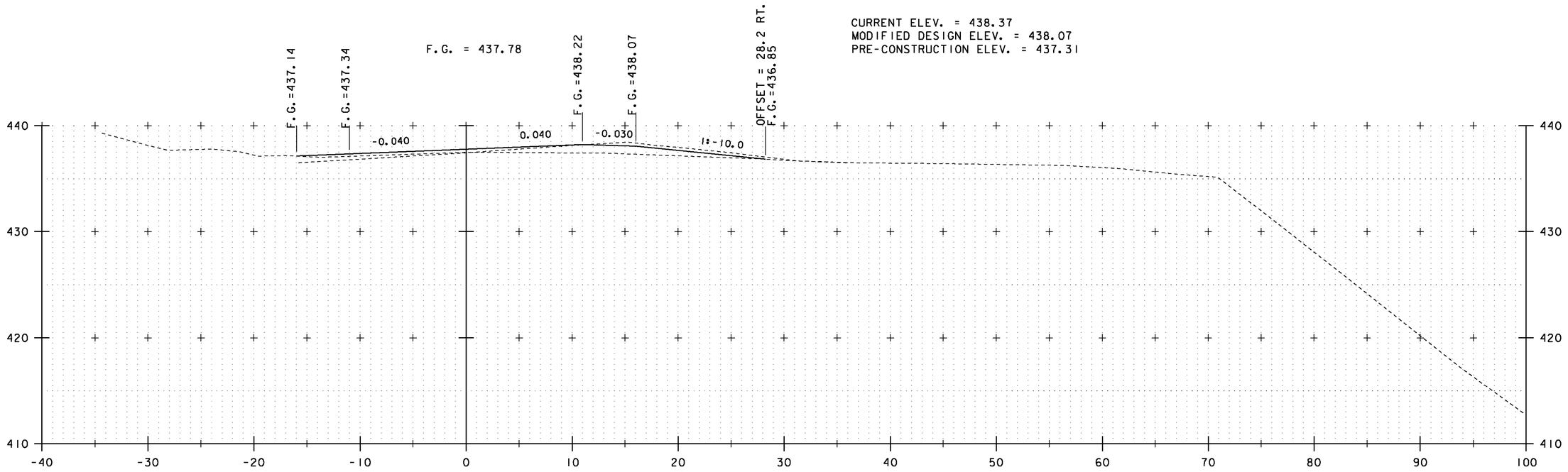
SCALE 0 5 10

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172xs.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: L. BULLOCK
------ ------

PLOT DATE: 17-JUL-2014
DRAWN BY: L. BULLOCK
CHECKED BY: M. FOWLER
SHEET 3 OF 12

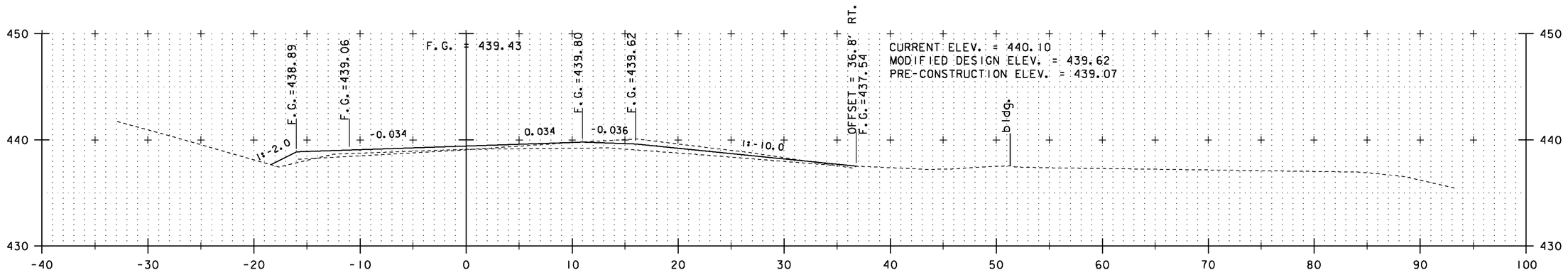
206AI 10 217



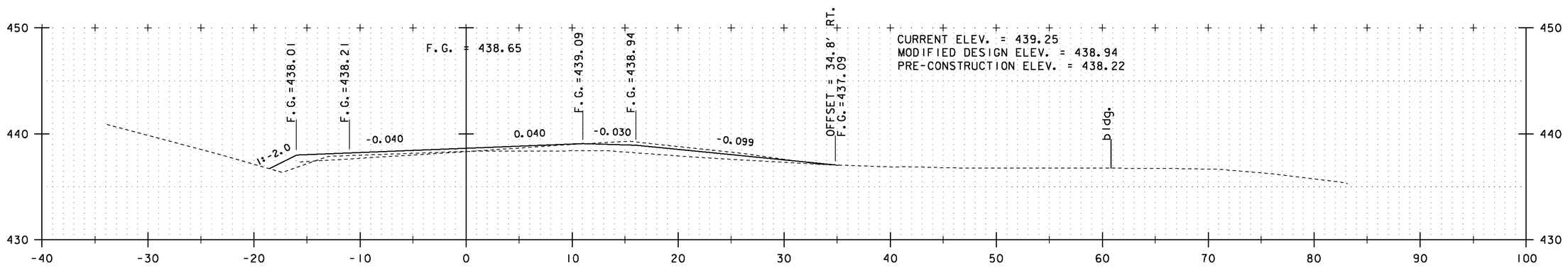
A 147+25

0 5 10
SCALE

PROJECT NAME:	BOLTON-WATERBURY
PROJECT NUMBER:	STP 2709(1)
FILE NAME: p07C172xs.dgn	PLOT DATE: 17-JUL-2014
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER
------ ------	SHEET 4 OF 12



A 147+75



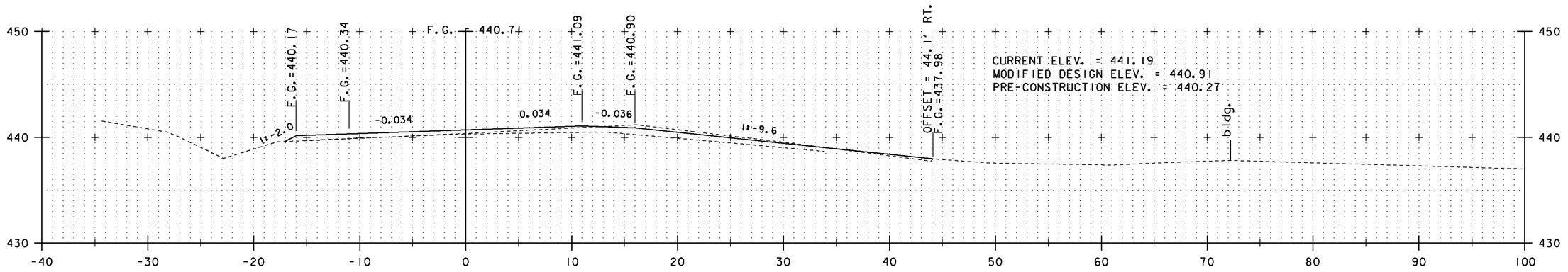
A 147+50

0 5 10
SCALE

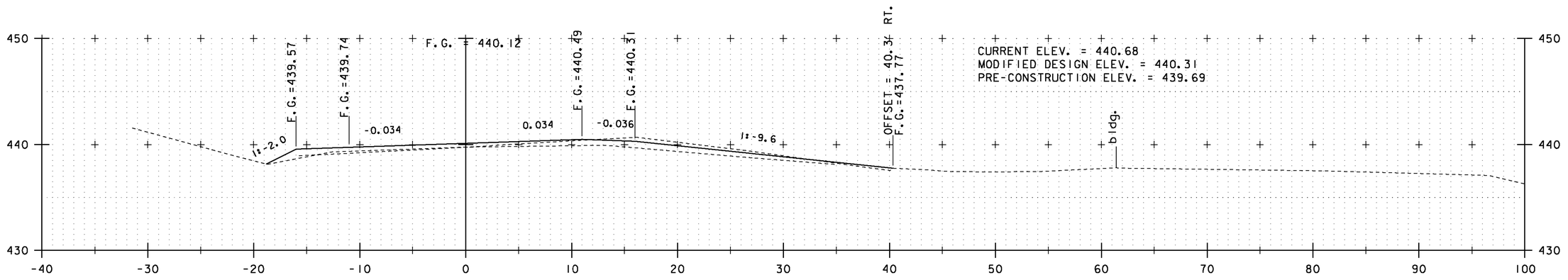
PROJECT NAME:	BOLTON-WATERBURY
PROJECT NUMBER:	STP 2709(1)

FILE NAME: p07C172xs.dgn		PLOT DATE:	17-JUL-2014
PROJECT LEADER:	M. FOWLER	DRAWN BY:	L. BULLOCK
DESIGNED BY:	L. BULLOCK	CHECKED BY:	M. FOWLER
------ ------		SHEET	5 OF 12

206A3 OF 217



A 148+25



A 148+00

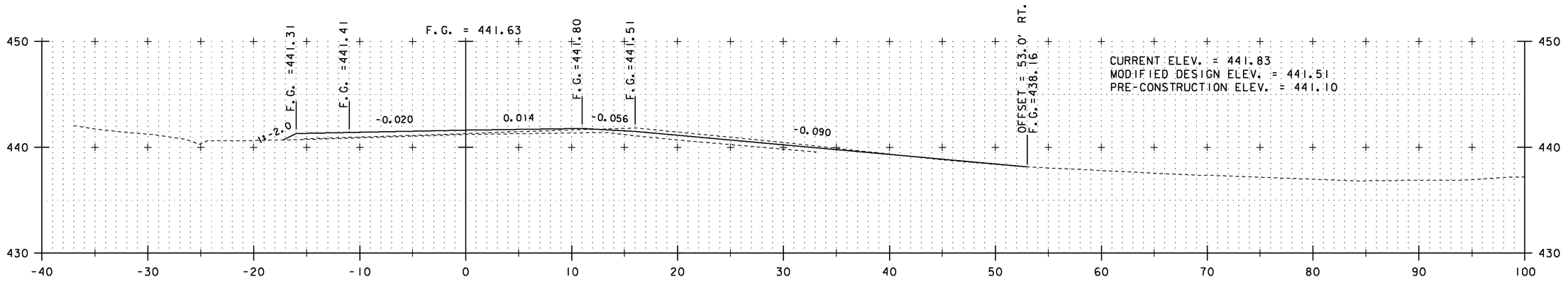
0 5 10
SCALE

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

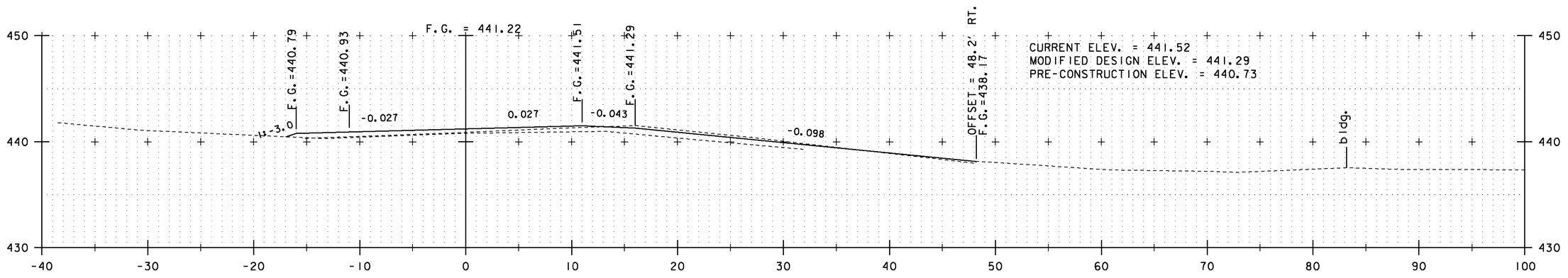
FILE NAME: p07C172xs.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: L. BULLOCK
------ ------

PLOT DATE: 17-JUL-2014
DRAWN BY: L. BULLOCK
CHECKED BY: M. FOWLER
SHEET 6 OF 12

206A4 OF 211



A 148+75



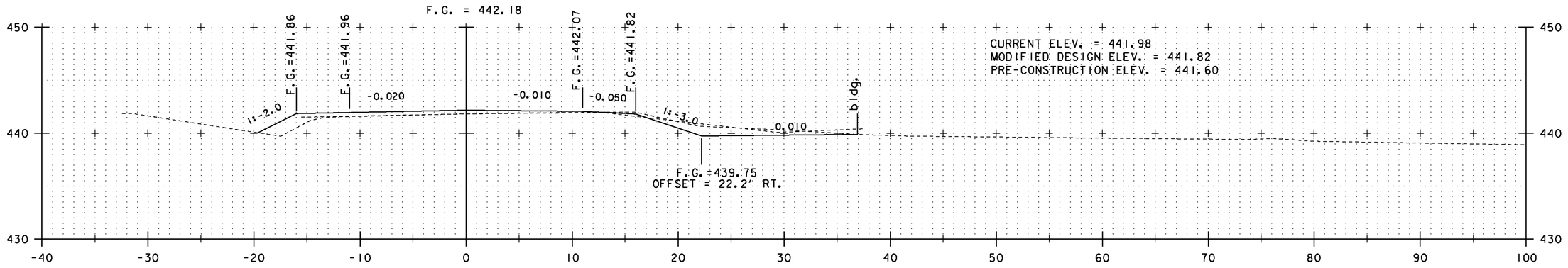
A 148+50

0 5 10
SCALE

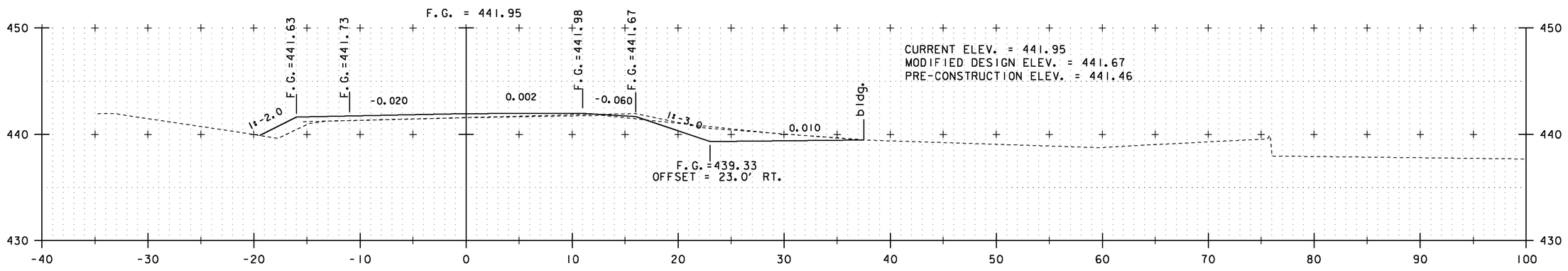
PROJECT NAME:	BOLTON-WATERBURY
PROJECT NUMBER:	STP 2709(1)

FILE NAME: p07C172xs.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: L. BULLOCK
------ ------

PLOT DATE: 17-JUL-2014
DRAWN BY: L. BULLOCK
CHECKED BY: M. FOWLER
SHEET 7 OF 12



A 149+25



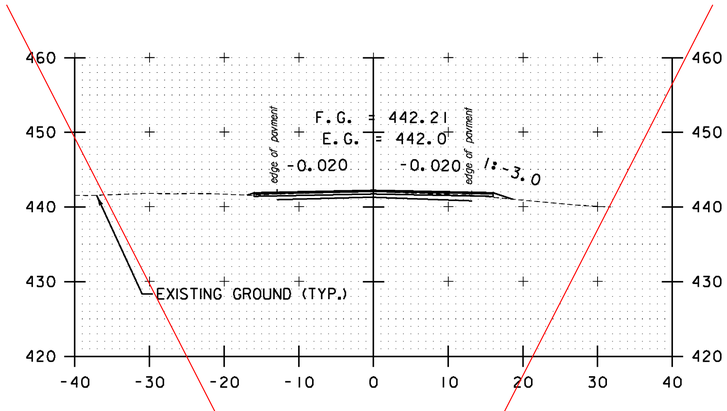
A 149+00

0 5 10
SCALE

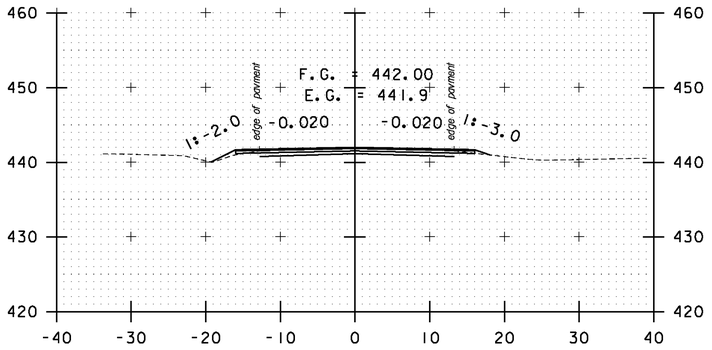
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172xs.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: L. BULLOCK
------ ------

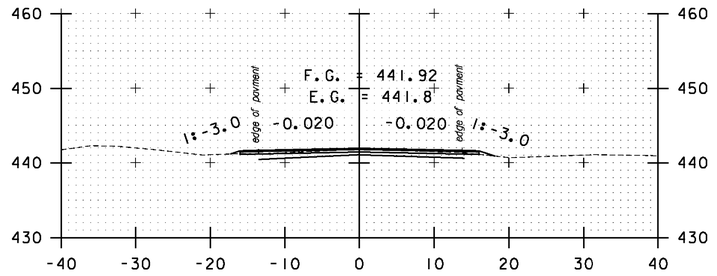
PLOT DATE: 17-JUL-2014
DRAWN BY: L. BULLOCK
CHECKED BY: M. FOWLER
SHEET 8 OF 12



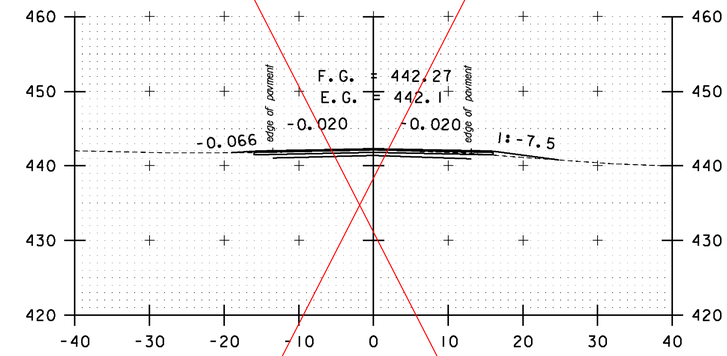
A 151+00



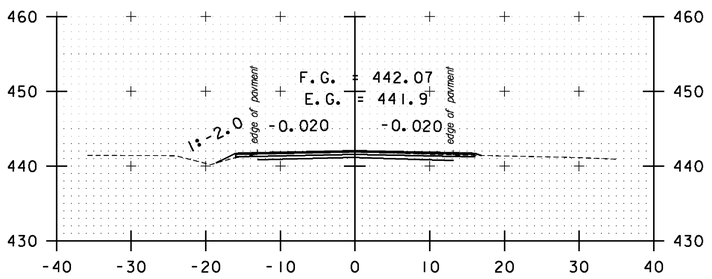
A 152+50



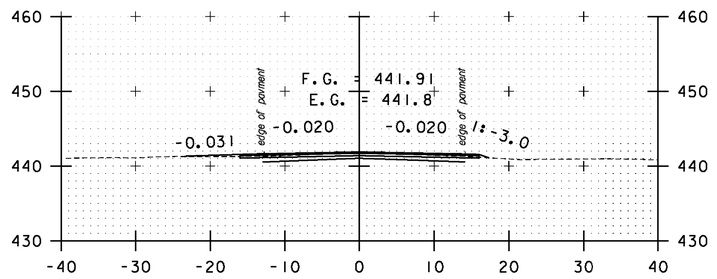
DRIVE LT
A 154+00



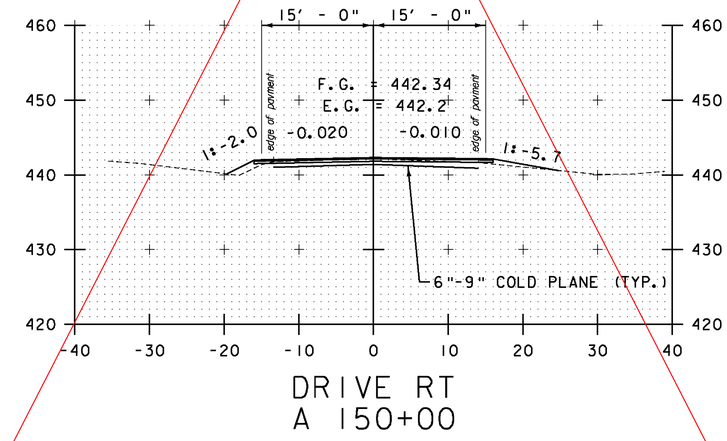
DRIVE LT / DRIVE RT
A 150+50



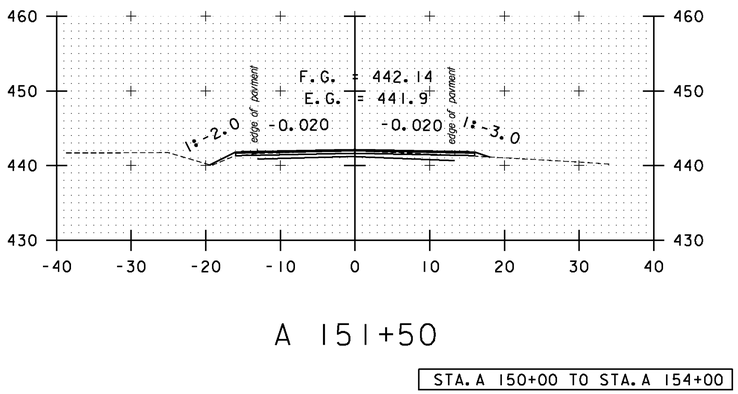
A 152+00



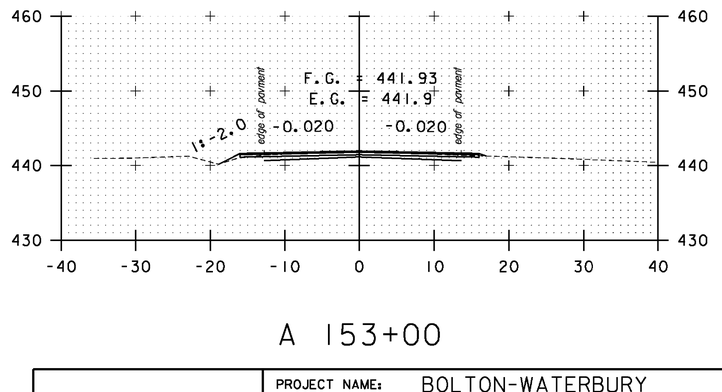
DRIVE LT
A 153+50



DRIVE RT
A 150+00



A 151+50



A 153+00

SEE SHEETS 207A1-207A4
FOR AMENDED CROSS SECTIONS
A 149+75 - A 151+00

STA. A 150+00 TO STA. A 154+00

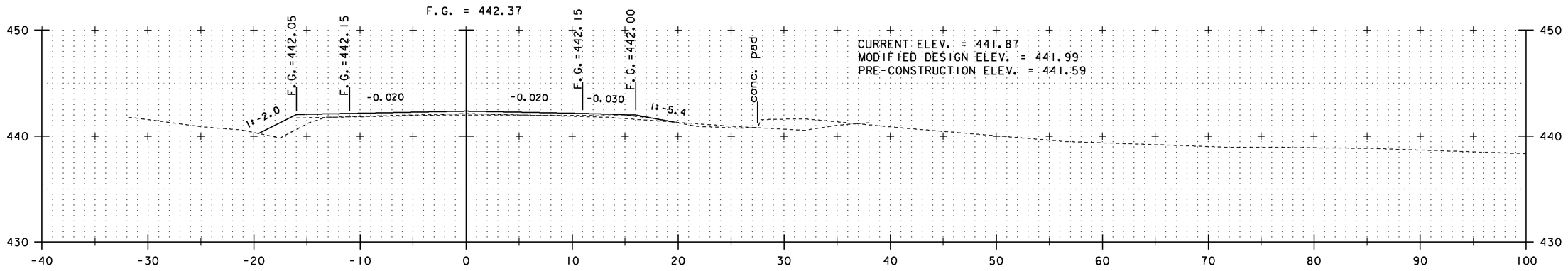
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 81

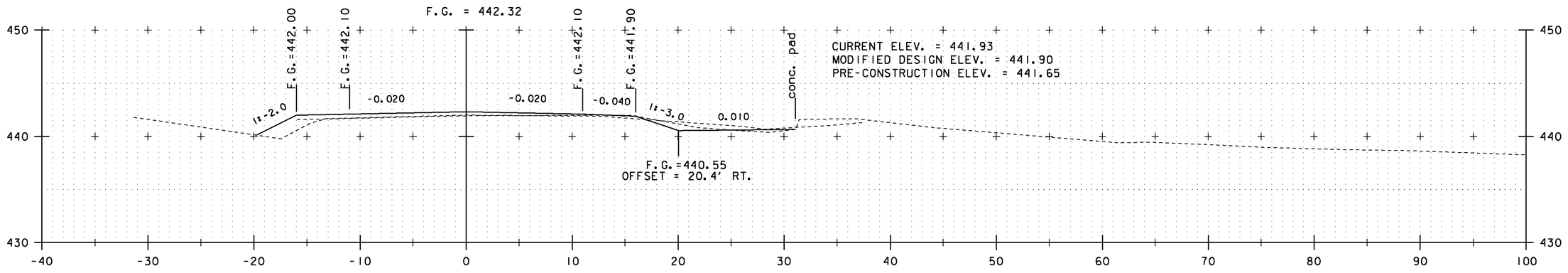
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_207.1

PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 207 OF 217



A 149+75



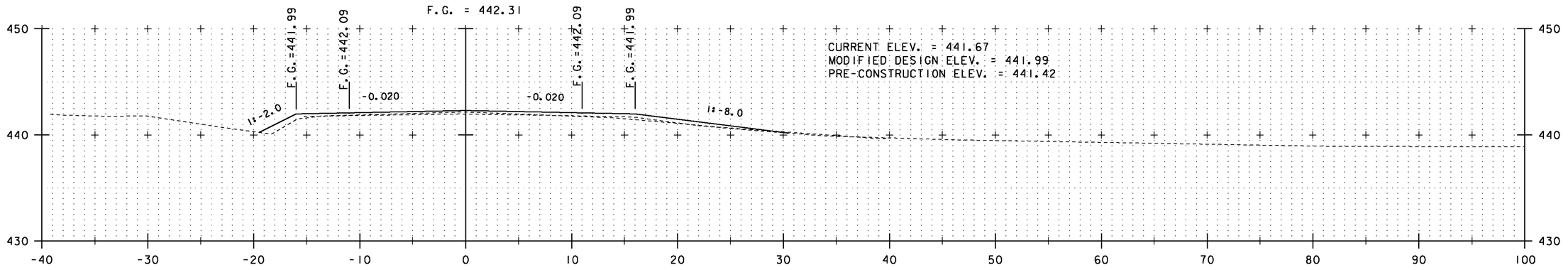
A 149+50

0 5 10
SCALE

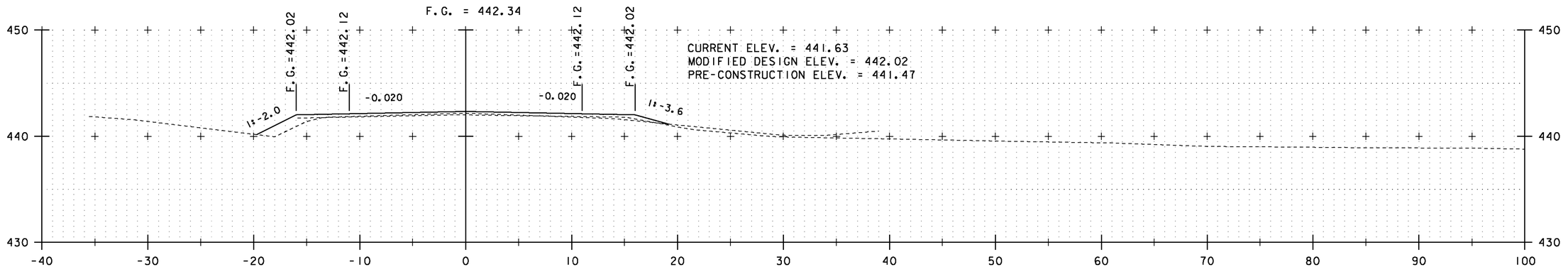
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07cl72xs.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: L. BULLOCK
------ ------

PLOT DATE: 17-JUL-2014
DRAWN BY: L. BULLOCK
CHECKED BY: M. FOWLER
SHEET 9 OF 12



A 150+25



A 150+00

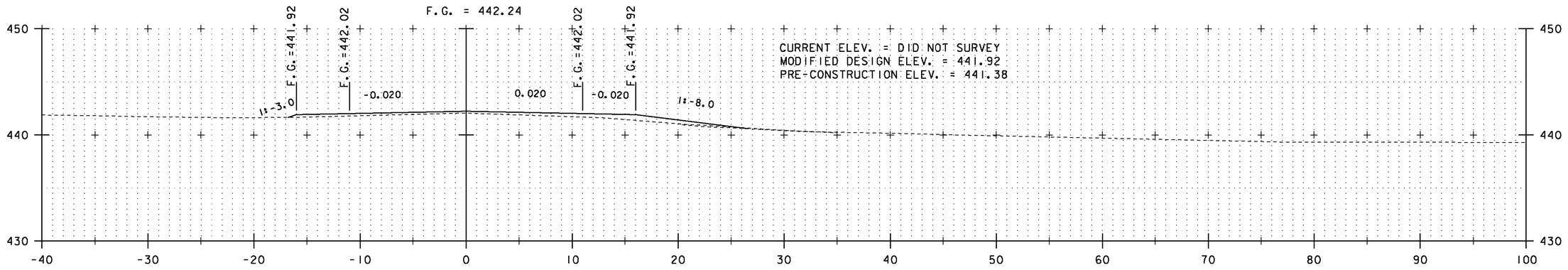
0 5 10
SCALE

PROJECT NAME:	BOLTON-WATERBURY
PROJECT NUMBER:	STP 2709(1)

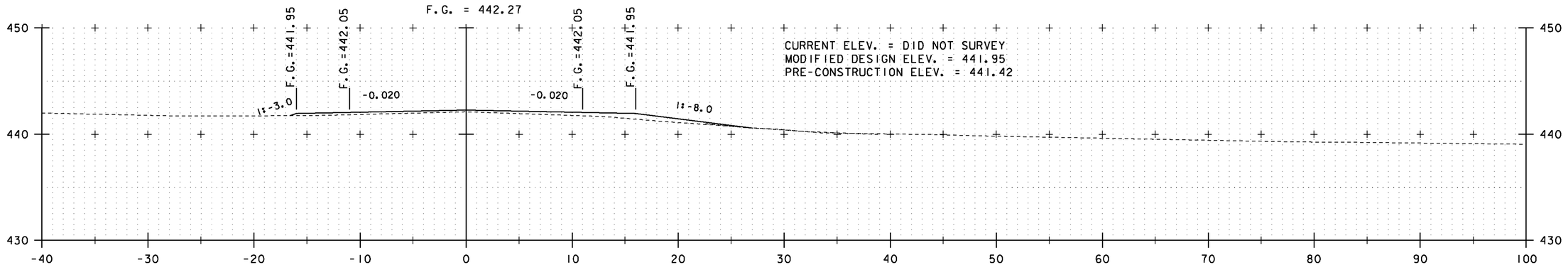
FILE NAME: p07C172xs.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: L. BULLOCK
------ ------

PLOT DATE: 17-JUL-2014
DRAWN BY: L. BULLOCK
CHECKED BY: M. FOWLER
SHEET 10 OF 12

207A2 OF 211



A 150+75



A 150+50

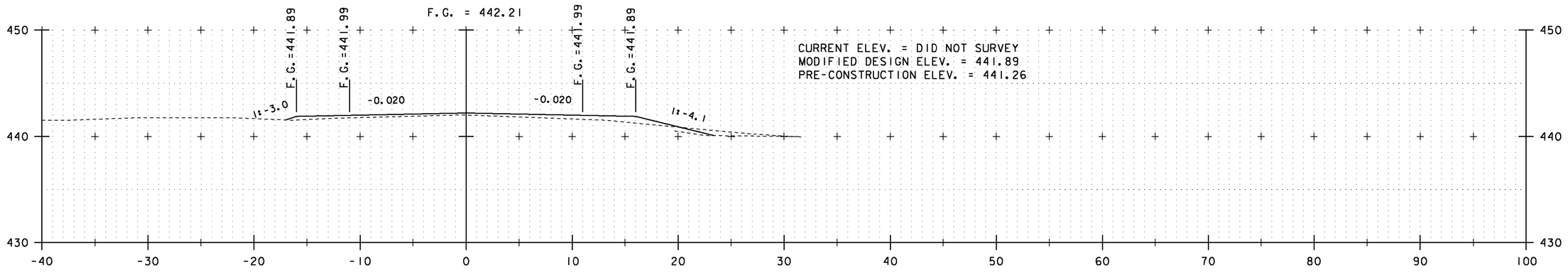
0 5 10
SCALE

PROJECT NAME:	BOLTON-WATERBURY
PROJECT NUMBER:	STP 2709(1)

FILE NAME: p07C172xs.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: L. BULLOCK
------ ------

PLOT DATE: 17-JUL-2014
DRAWN BY: L. BULLOCK
CHECKED BY: M. FOWLER
SHEET 11 OF 12

207A3 OF 217



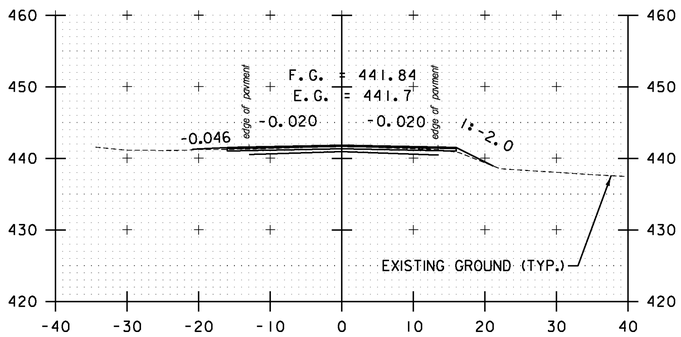
A 151+00

0 5 10
SCALE

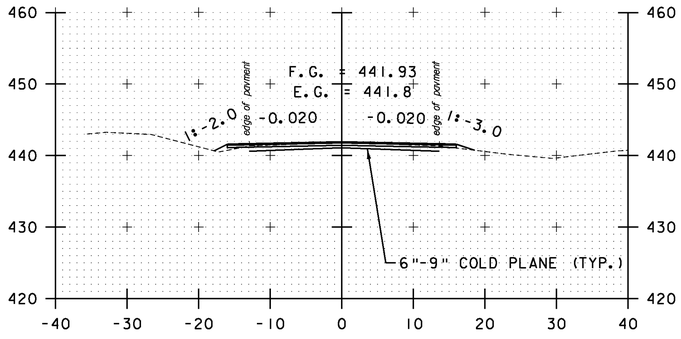
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172xs.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: L. BULLOCK
------ ------

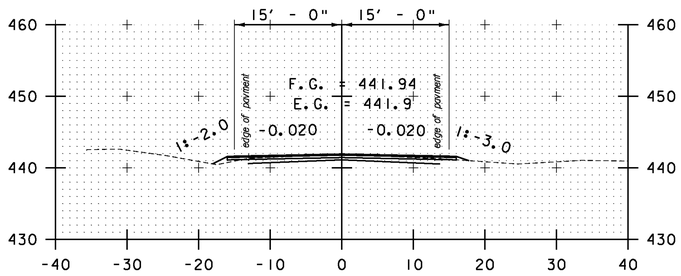
PLOT DATE: 17-JUL-2014
DRAWN BY: L. BULLOCK
CHECKED BY: M. FOWLER
SHEET 12 OF 21



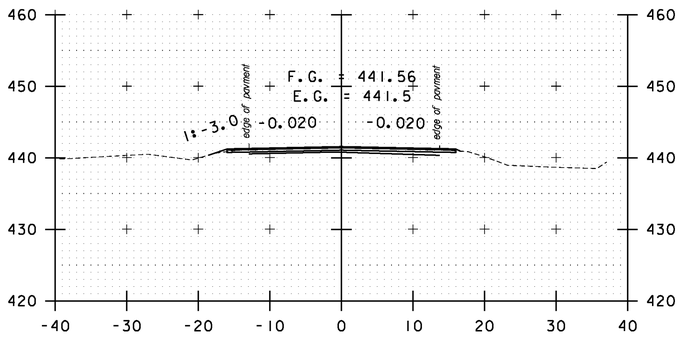
DRIVE LT
A 155+50



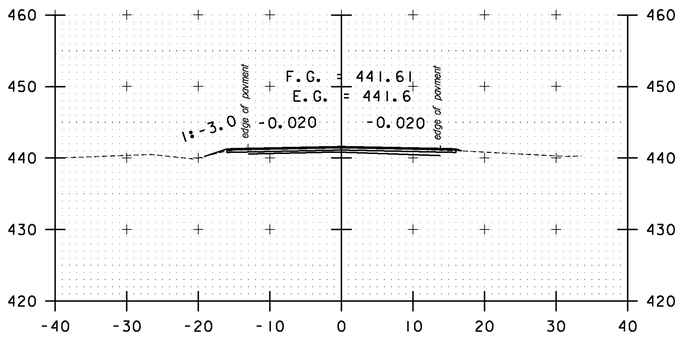
A 155+00



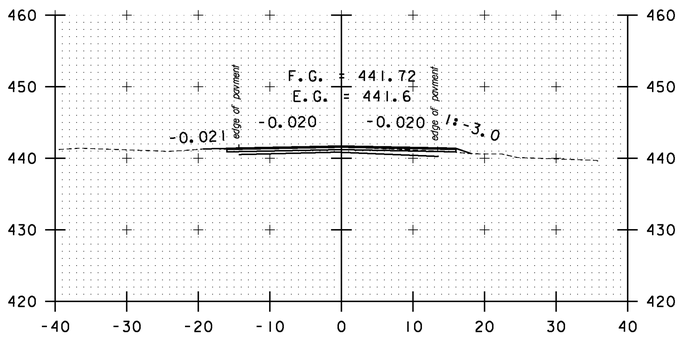
A 154+50



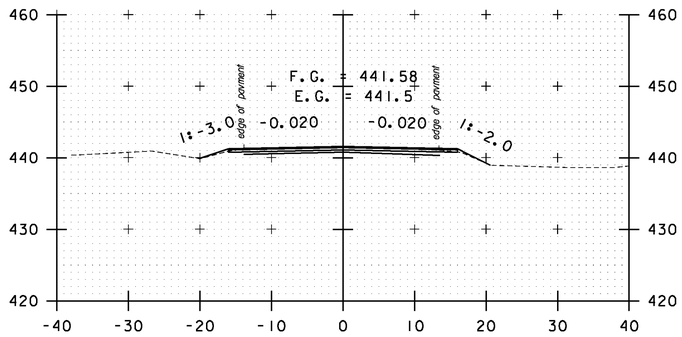
A 157+00



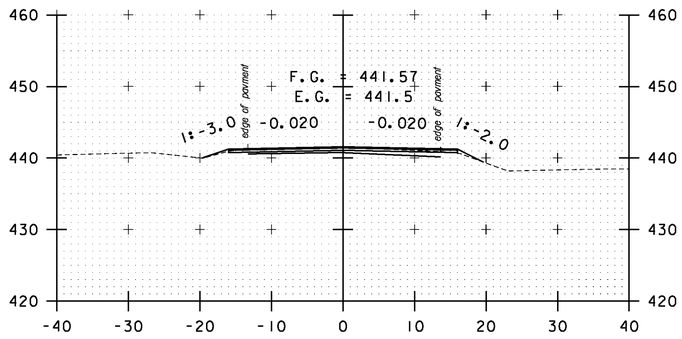
A 156+50



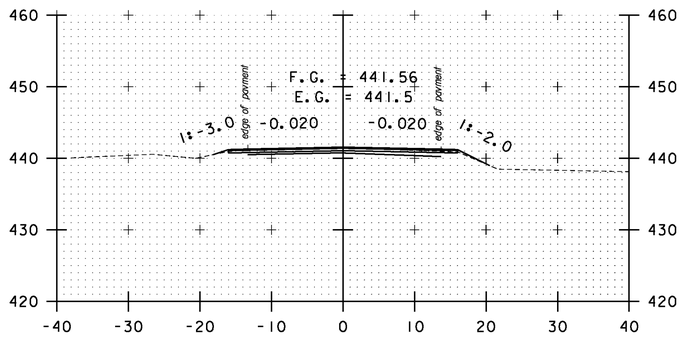
A 156+00
DRIVE LT



A 158+50



A 158+00



A 157+50

STA. A 154+50 TO STA. A 158+50

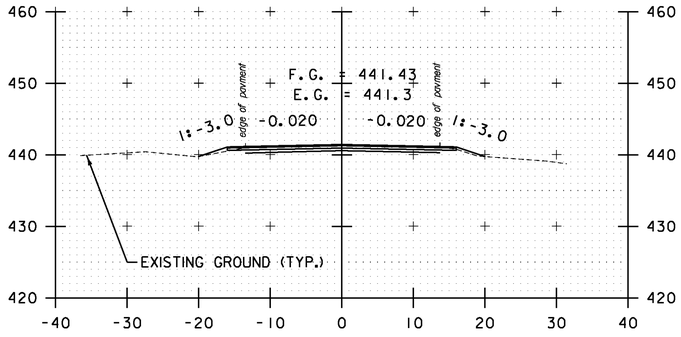
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 82

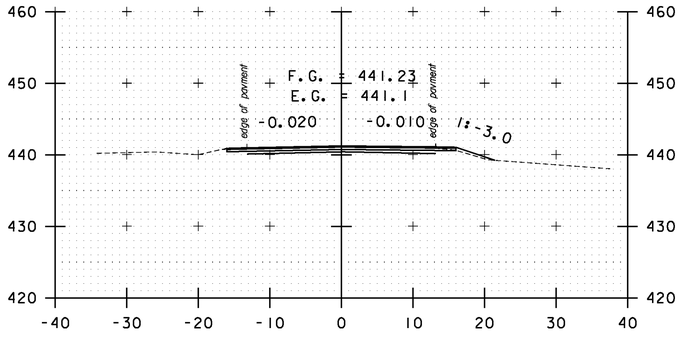
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_208.1

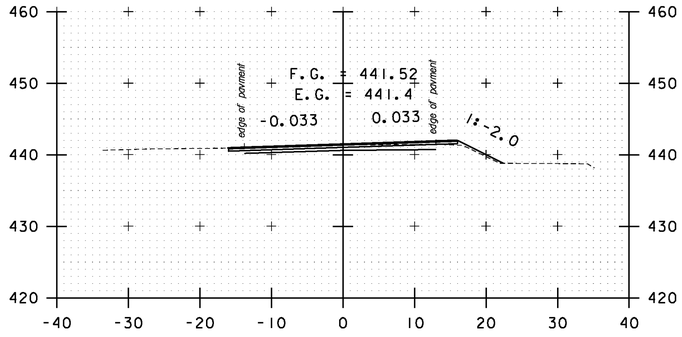
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 208 OF 217



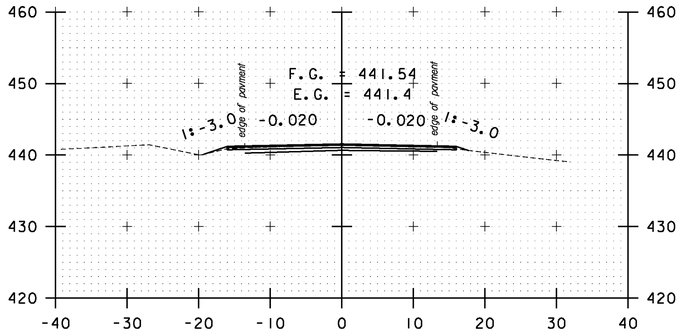
A 160+00



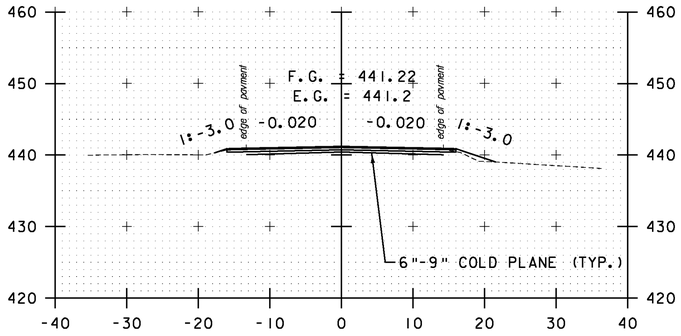
A 161+50



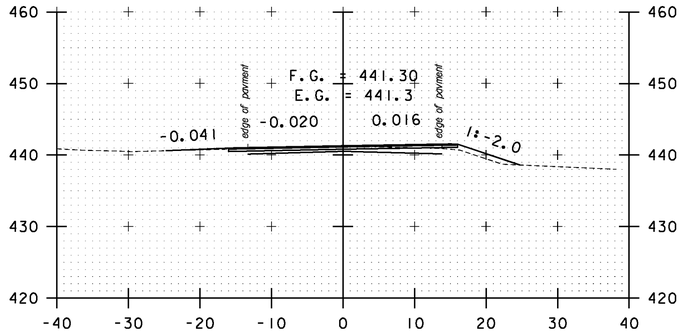
A 163+00



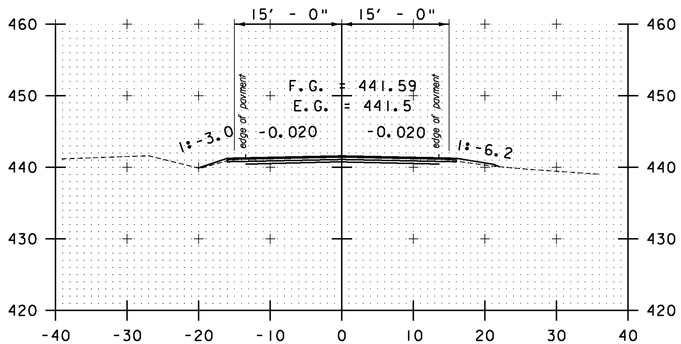
A 159+50



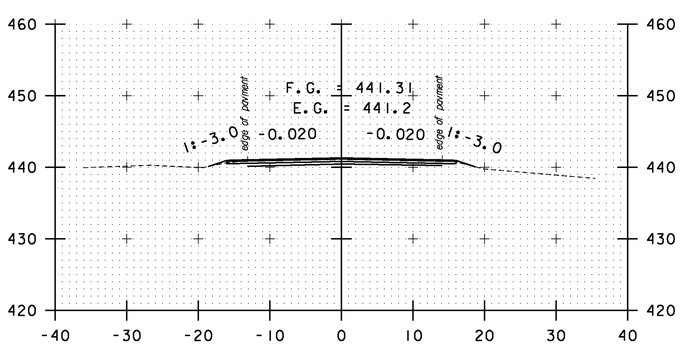
A 161+00



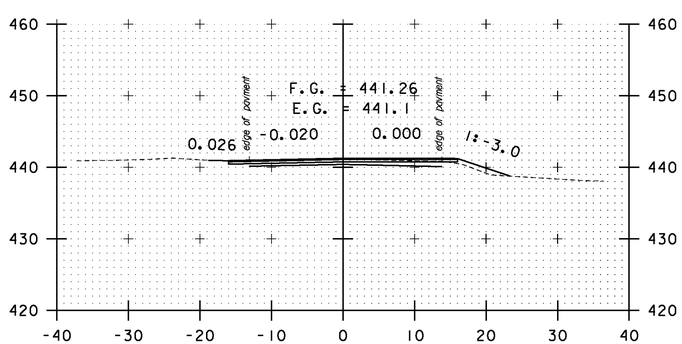
DRIVE LT
A 162+50



DRIVE RT
A 159+00



A 160+50



DRIVE LT
A 162+00

STA. A 159+00 TO STA. A 163+00

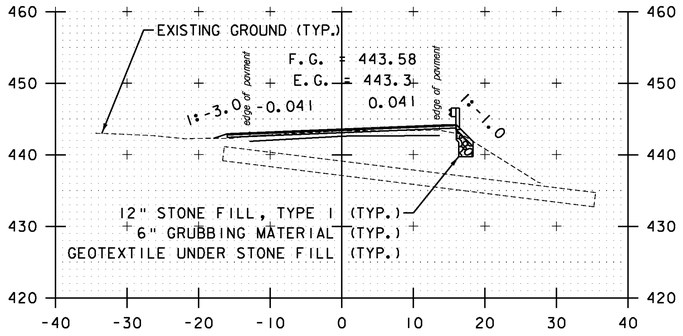
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 83

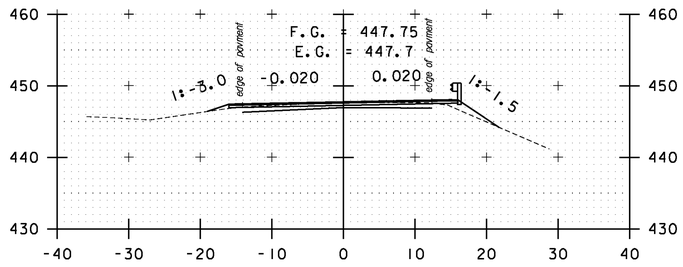
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_209.i

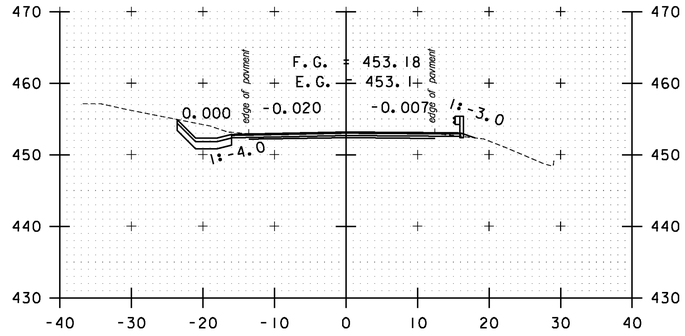
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 209 OF 217



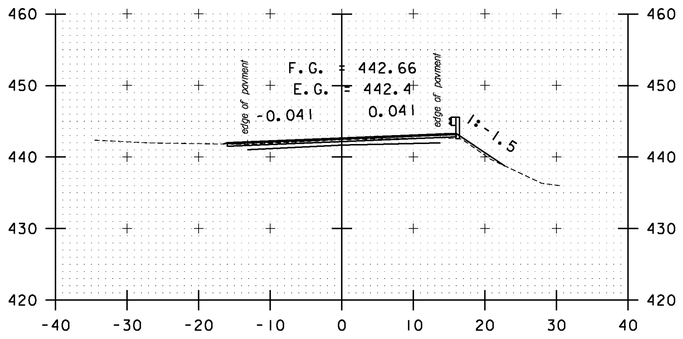
A 164+50



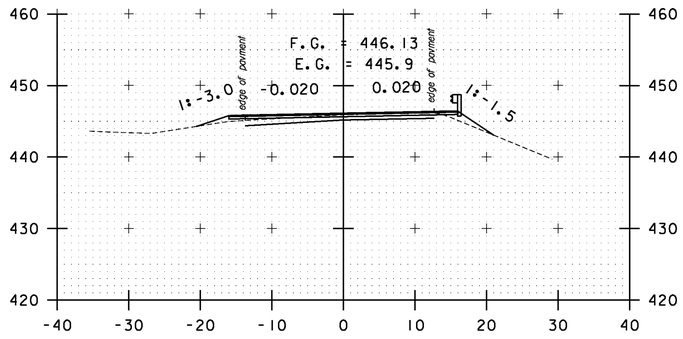
A 166+00



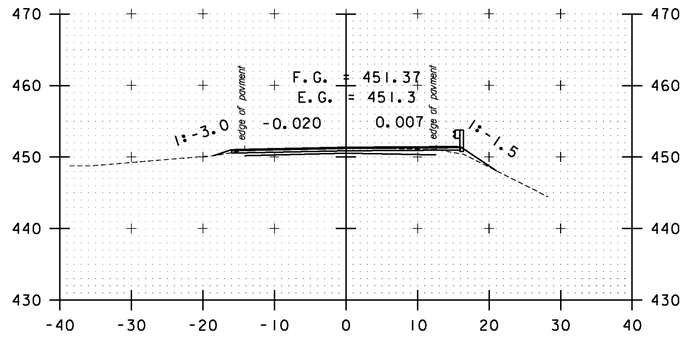
A 167+50



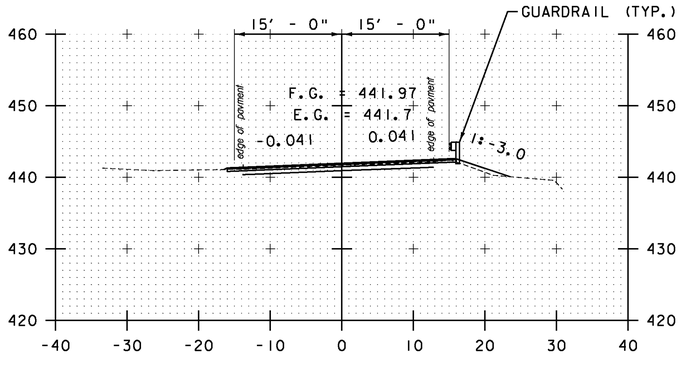
A 164+00



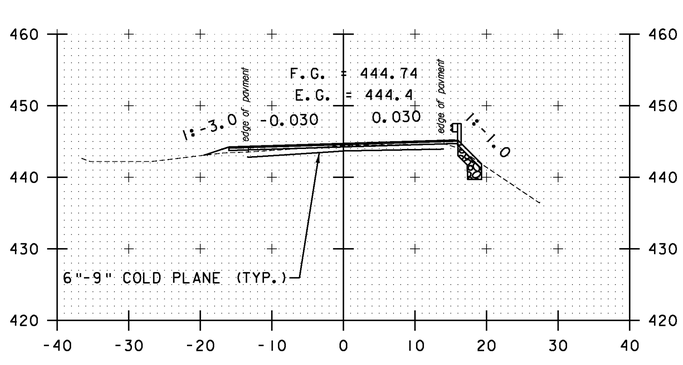
A 165+50



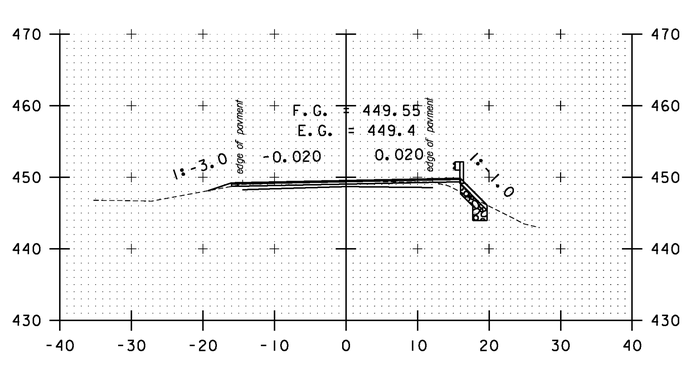
A 167+00



A 163+50



A 165+00



A 166+50

STA. A 163+50 TO STA. A 167+50

SCALE 1" = 10'-0

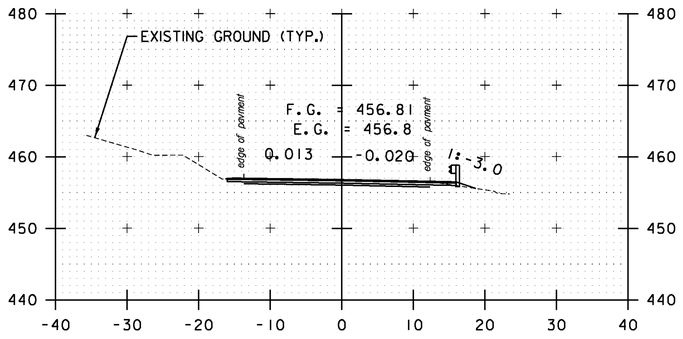
10 0 10

CROSS SECTION SHEET 84

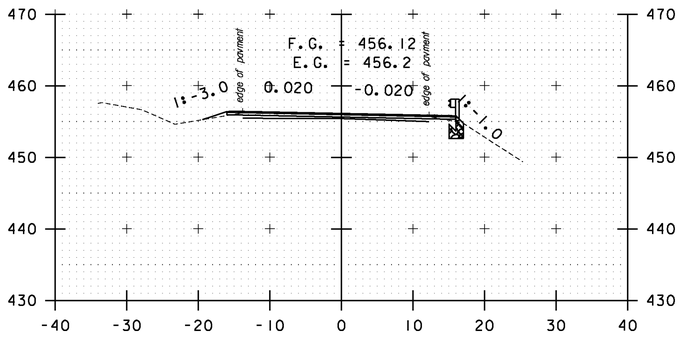
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_210.1

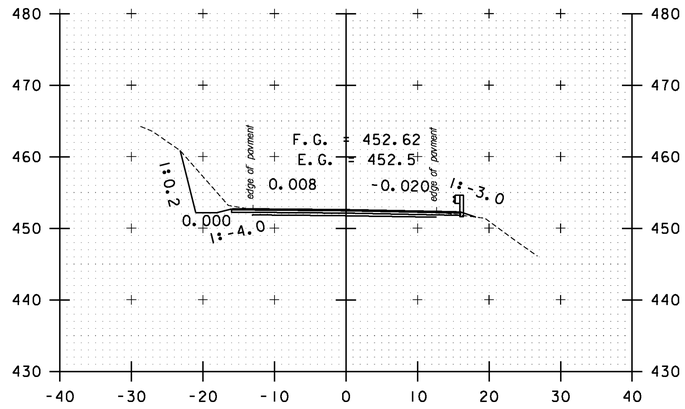
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 210 OF 217



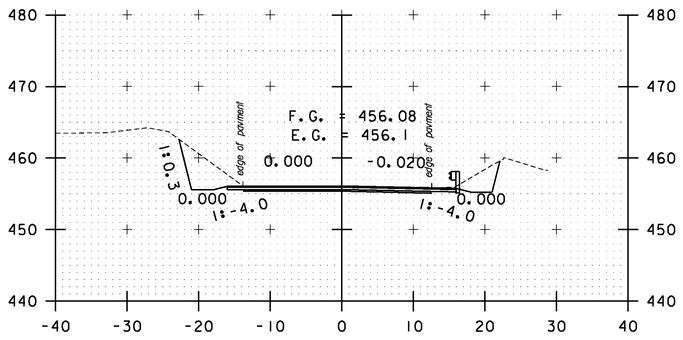
A 169+00



A 170+50



A 172+00



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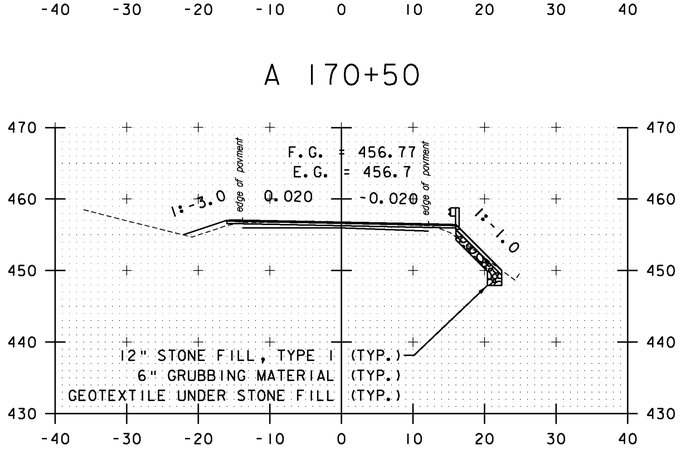
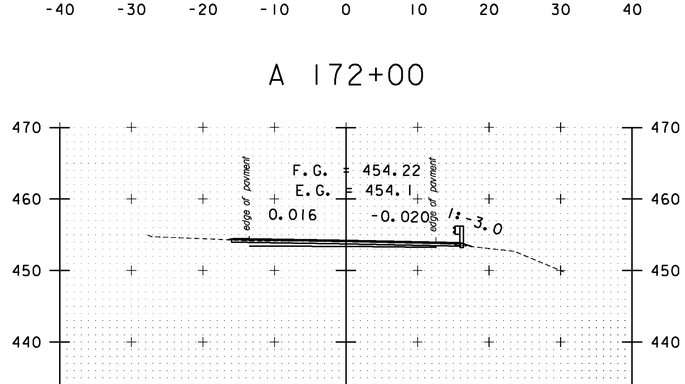


A 170+00



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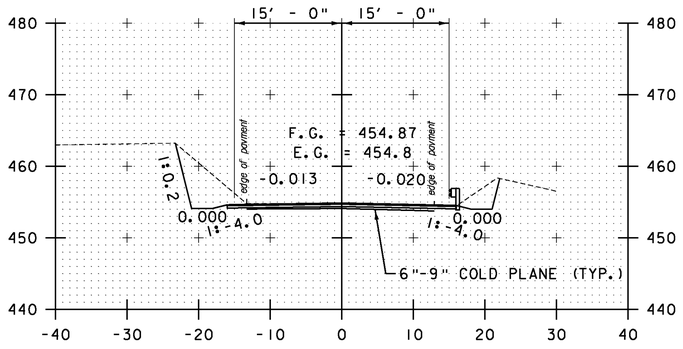
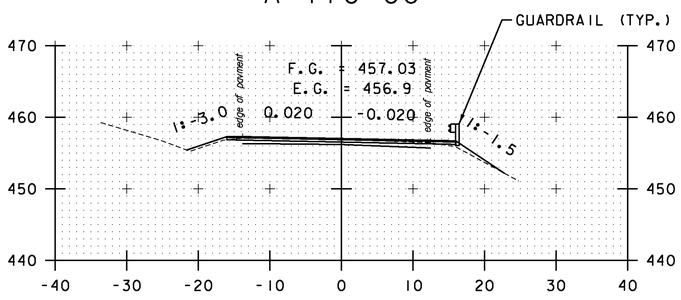
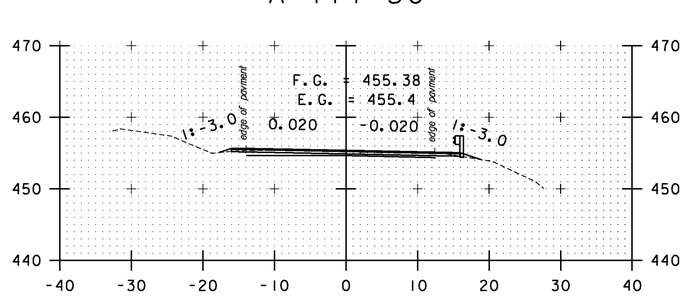


A 168+00



A 169+50



A 171+00

STA. A 168+00 TO STA. A 172+00

SCALE 1" = 10'-0

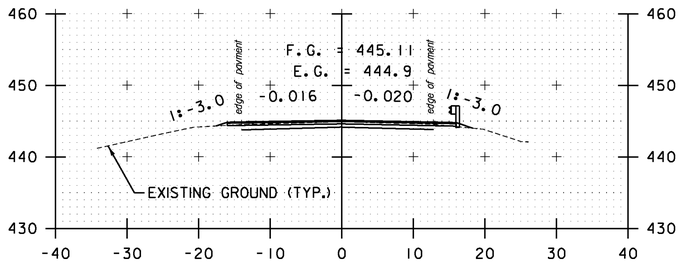
10 0 10

CROSS SECTION SHEET 85

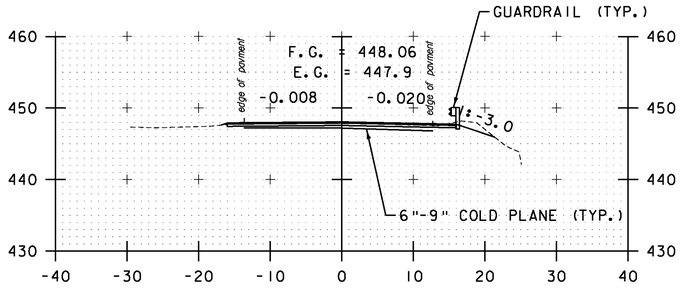
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_211.i

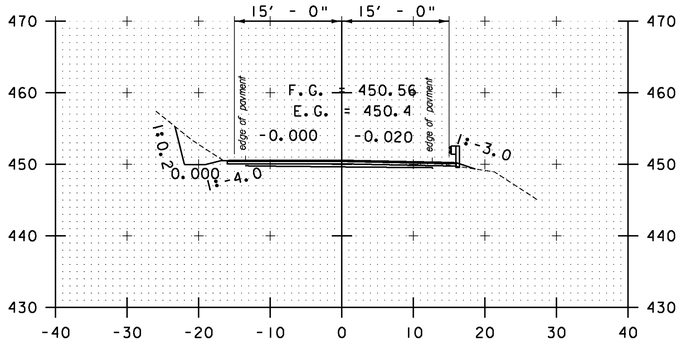
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 211 OF 217



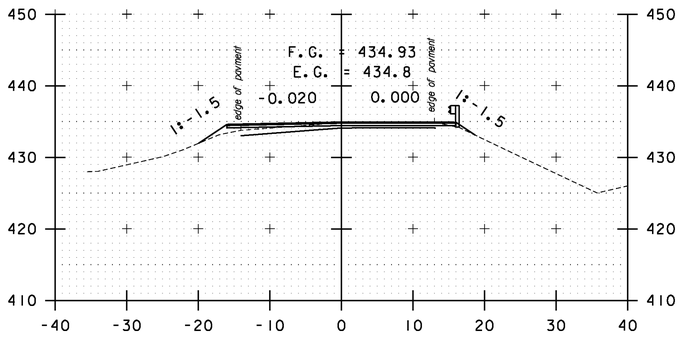
A 173+50



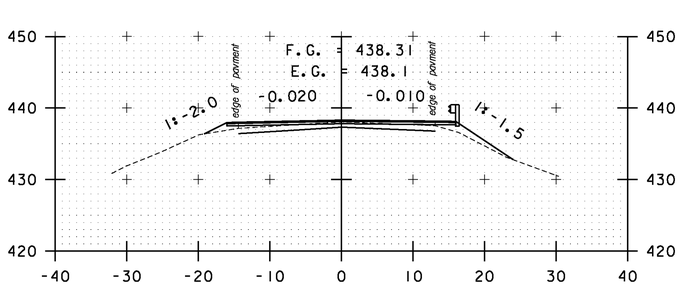
A 173+00



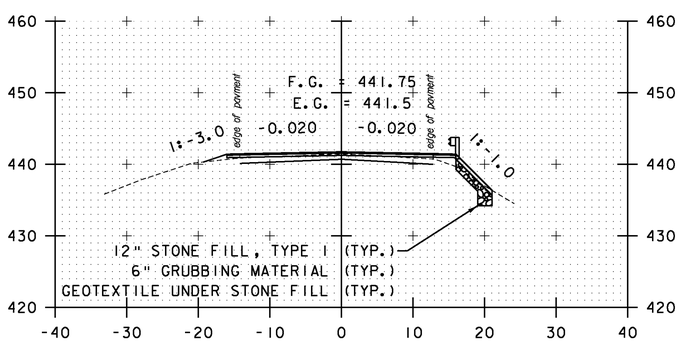
A 172+50



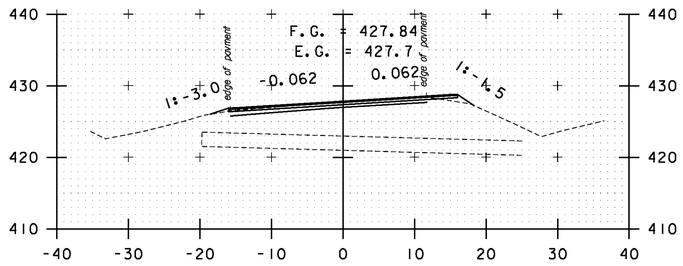
A 175+00



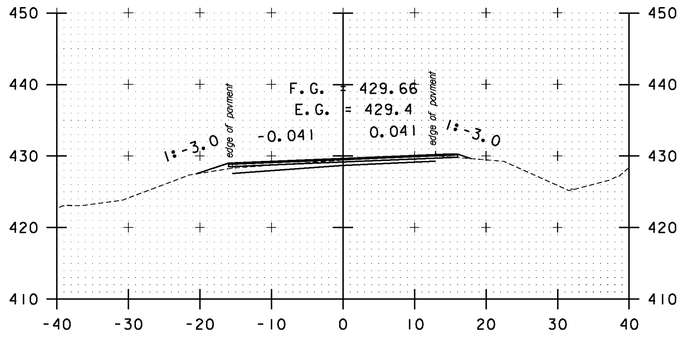
A 174+50



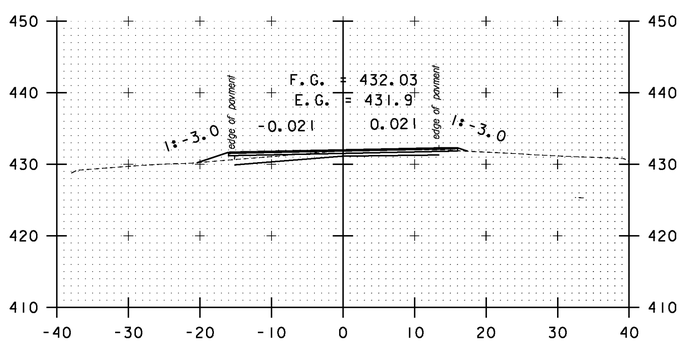
A 174+00



A 176+50



A 176+00



A 175+50

STA. A 172+50 TO STA. A 176+50

SCALE 1" = 10'-0

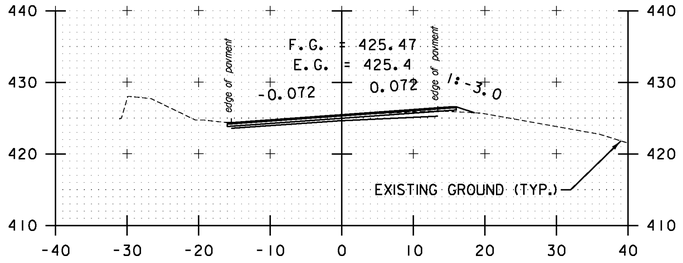
10 0 10

CROSS SECTION SHEET 86

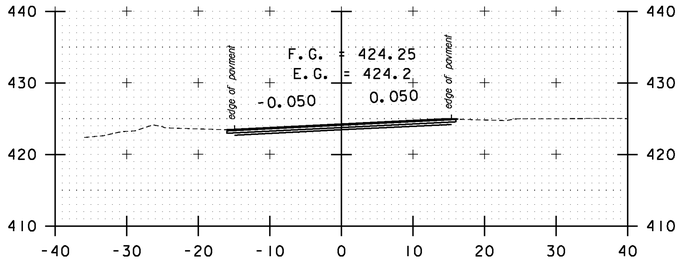
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_212.1

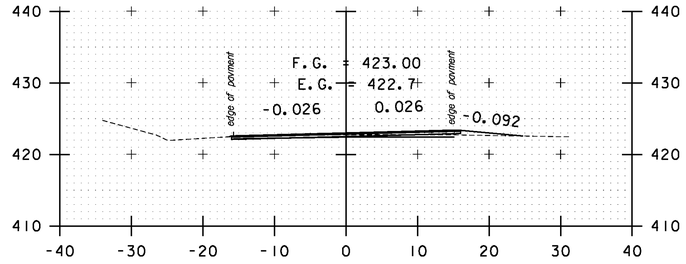
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 212 OF 217



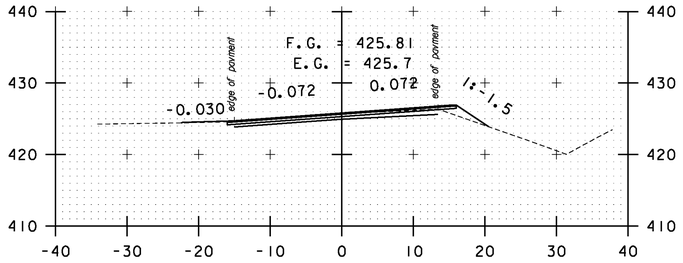
A 178+00



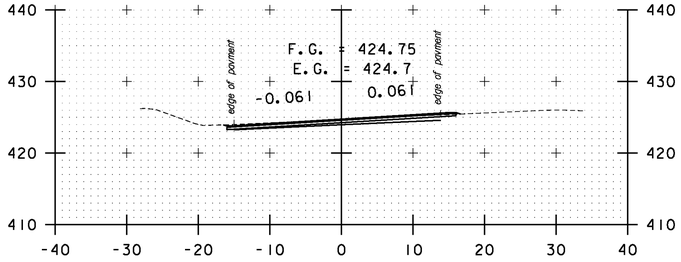
A 179+50



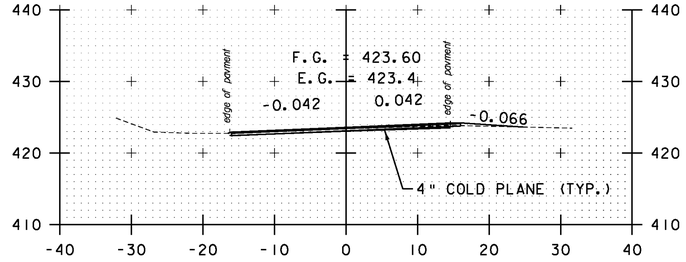
DRIVE RT
A 181+00



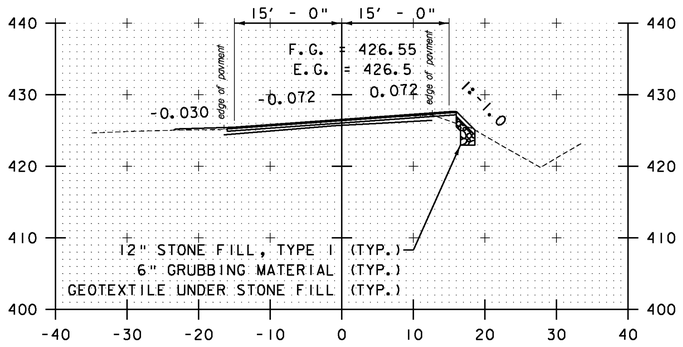
PULL OFF LT
A 177+50



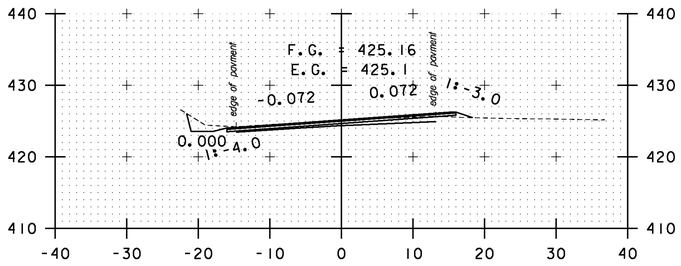
A 179+00



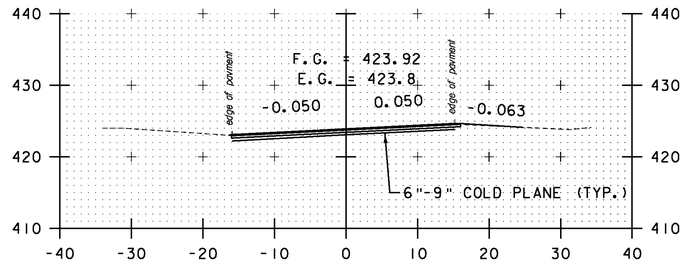
DRIVE RT
A 180+50



PULL OFF LT
A 177+00



A 178+50



DRIVE RT
A 180+00

STA. A 177+00 TO STA. A 181+00

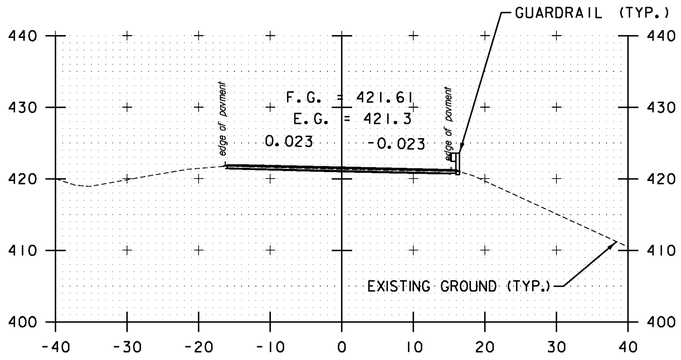
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 87

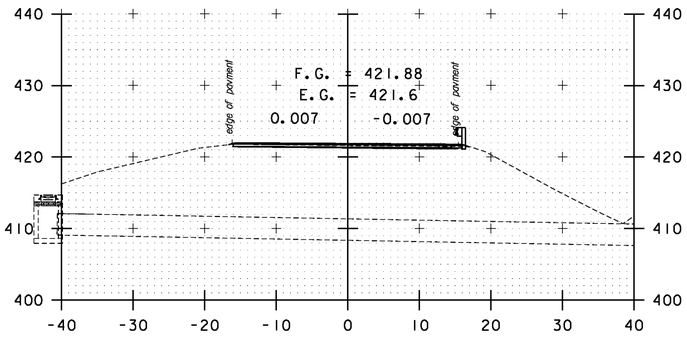
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_213.1

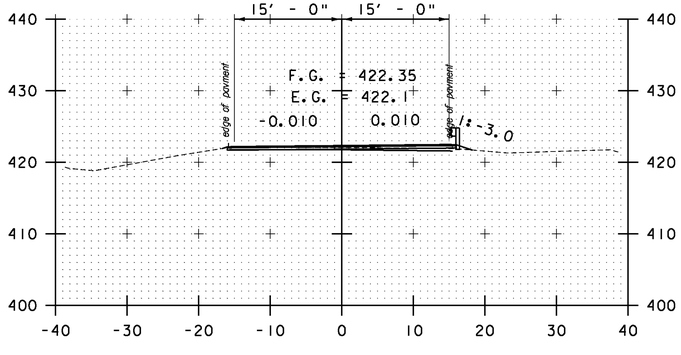
PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 213 OF 217



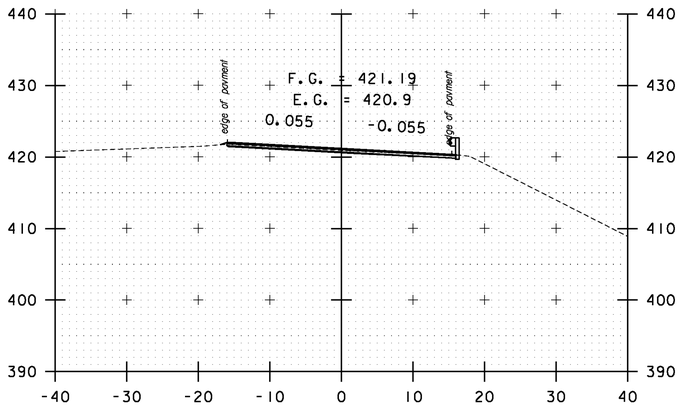
A 182+50



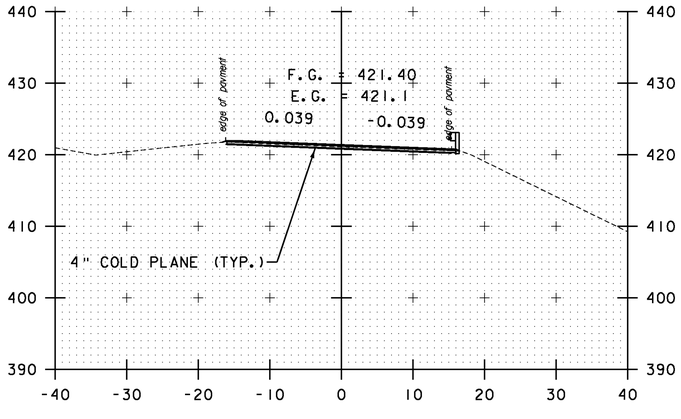
A 182+00



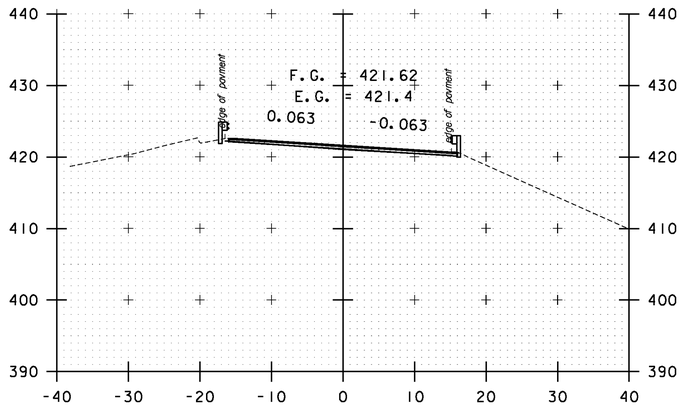
A 181+50



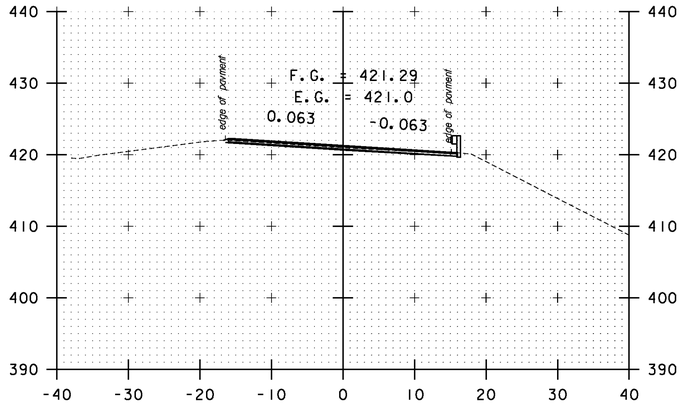
A 183+50



A 183+00



A 184+50



A 184+00

STA. A 181+50 TO STA. A 184+50

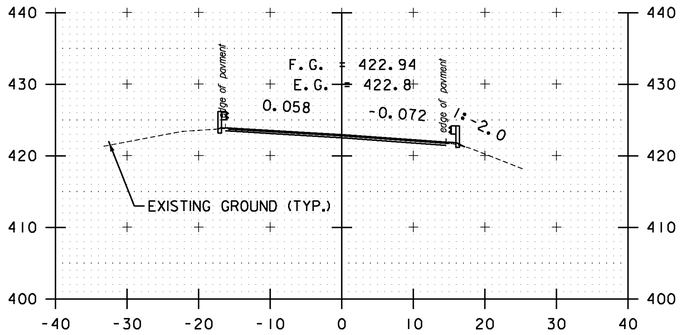
SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 88

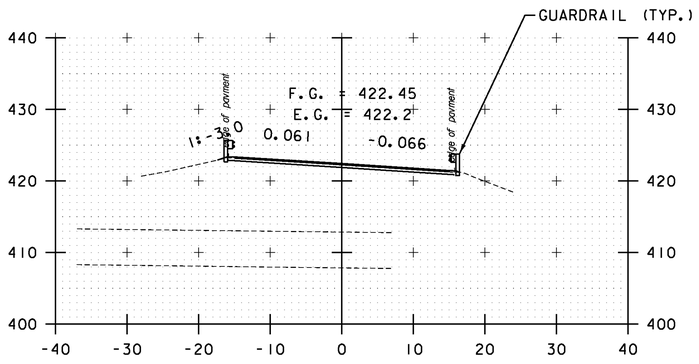
PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

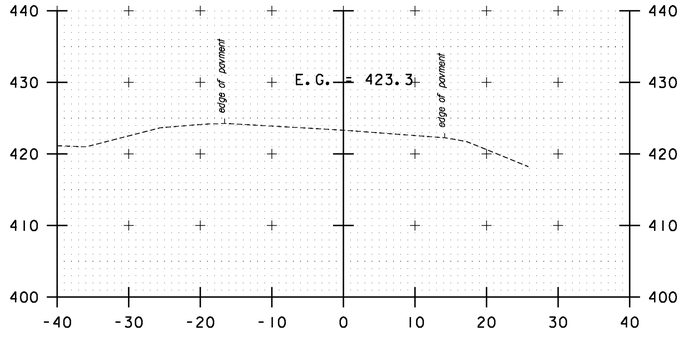
FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_214.1

PLOT DATE: 4/16/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 214 OF 217



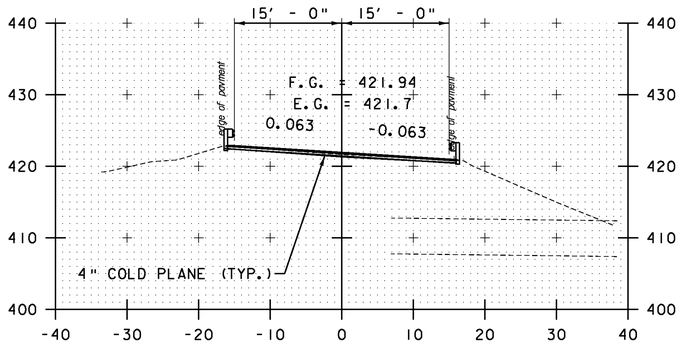
A 186+00

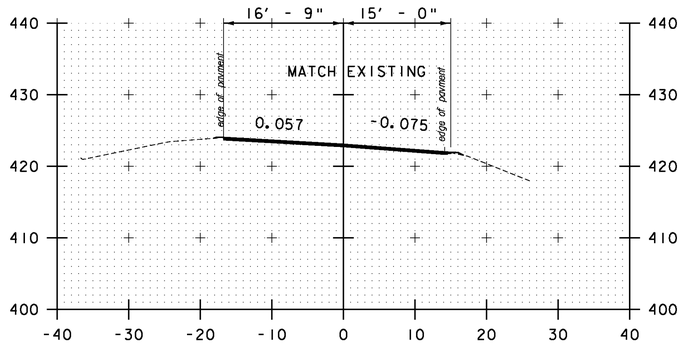




A 185+50

A 186+50





A 185+00

END PROJECT - MATCH EXISTING
A 186+25

STA. A 185+00 TO STA. A 186+50

SCALE 1" = 10'-0
10 0 10

CROSS SECTION SHEET 89

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_215.1

PLOT DATE: 4/17/2013
DRAWN BY: BMB
CHECKED BY: CDL
SHEET 215 OF 217

TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE WORK ZONE FOR EMERGENCY VEHICLES AT ALL TIMES.

2. A MINIMUM LANE WIDTH OF 10 FT. SHALL BE MAINTAINED.

3. WHEN COLD PLANED BITUMINOUS PAVEMENT IS OPEN TO TRAFFIC, A "MOTORCYCLES USE CAUTION" SIGN, AS PER VAOT STANDARD E-102A, SHALL BE PROVIDED.

4. THE CONTRACTOR SHOULD LEAVE NO LONGITUDINAL DROP-OFFS DURING THE OVERNIGHT HOURS. THEREFORE, THE FULL ROADWAY WIDTH SHOULD BE COLD PLANED OR PAVED DURING THE DAILY WORK PERIOD. WHEN NECESSARY, DROP-OFF PROTECTION IN THESE AREAS SHALL CONFORM TO VAOT STANDARD E-108A.

5. MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES FOR EMERGENCY VEHICLES. MAINTAIN ACCESS TO ALL COMMERCIAL AND MUNICIPAL PROPERTIES DURING BUSINESS HOURS. ACCESS TO RESIDENTIAL PROPERTIES MAY BE RESTRICTED FOR A SHORT DURATION (A FEW HOURS). THIS WORK WILL BE COORDINATED WITH THE OWNER. COORDINATE MAJOR WORK ON COMMERCIAL OR MUNICIPAL ACCESSES WITH THE OWNER AT LEAST ONE WEEK PRIOR TO STARTING THE WORK. ALL ACCESSES SHALL ALSO BE KEPT FREE OF WORK AND TRAFFIC CONTROLLED BY UNIFORMED TRAFFIC OFFICERS OR FLAGGERS AS REQUIRED BY THE ENGINEER.

6. TRAFFIC SHALL NOT BE CHANGED FROM ONE TRAFFIC PATTERN TO THE NEXT TRAFFIC PATTERN UNTIL ALL TEMPORARY MARKINGS, SIGNING AND SIGNAL WORK ARE COMPLETED. ANY CONFLICTING MARKINGS SHALL BE REMOVED.

7. ALL PERMANENT SIGNS WHICH CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETELY COVERED.

8. ALL REASONABLE EFFORTS SHALL BE MADE TO ACCOMMODATE PEDESTRIAN TRAVEL AT ALL TIMES. THIS CAN INCLUDE, BUT IS NOT LIMITED TO A DEDICATED PEDESTRIAN ESCORT, SIGNAGE AND CONED OFF WALKING AREAS WITHIN CLOSED LANES. FLAGGERS SHALL NOT BE USED AS PEDESTRIAN ESCORTS. WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED IN A TEMPORARY TRAFFIC CONTROL ZONE, THE TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY. PAYMENT WILL BE INCLUDED IN THE UNIT PRICE FOR ITEM 641.10 TRAFFIC CONTROL.

9. PLEASE NOTE THAT THE UTO (UNIFORMED TRAFFIC OFFICER), UNDER AUTHORITY GRANTED BY LAW (TITLE 23 VSA) MAY DIRECT AND CONTROL TRAFFIC. SUITABLE EXAMPLES IN WORK MIGHT INCLUDE THE DIRECTION AND CONTROLS OF TRAFFIC AT INTERSECTIONS WHERE SIGNALS ARE NOT FUNCTIONING OR ARE MALFUNCTIONING. IN THESE CASES, THE PRESENCE OF THE BLUE LIGHT MAY NOT BE SUITABLE OR NECESSARY. THE WEARING OF DEPARTMENTALLY REQUIRED AND APPROVED REFLECTIVE GARMENTS IS REQUIRED.

10. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN TO THE RESIDENT ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE PLAN SHALL INCLUDE TRAFFIC CONTROL FOR BOTH I-89 NORTHBOUND AND US ROUTE 2. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL NOT BE PAID SEPARATELY BUT SHALL BE PAID AS PART OF ITEM 641.10, "TRAFFIC CONTROL". THE TRAFFIC CONTROL PLAN SHALL BE IN COMPLIANCE WITH STANDARDS AND 2009 MUTCD. WHERE CONFLICTS EXIST, THE 2009 MUTCD SHALL GOVERN.

11. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN APPROACH PACKAGE INCLUDING BOTH I-89 NORTHBOUND AND US ROUTE 2 FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH THE TRAFFIC CONTROL NOTES AND PART 6 OF THE 2009 MUTCD. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE PAID AS PART OF ITEM 641.10, "TRAFFIC CONTROL".

12. THE BID PRICE FOR "TRAFFIC CONTROL", ITEM 641.10, SHALL INCLUDE ALL OF THE FOLLOWING, AS NEEDED: APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VAOT STANDARDS. ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE RESIDENT ENGINEER SHALL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID FOR SEPARATELY:
    646.602, 646.612, 646.682, 646.692 - TEMPORARY PAVEMENT MARKINGS
    630.10 UNIFORMED TRAFFIC OFFICERS, 630.15 - FLAGGERS

13. THE MUTCD 2009 AND ITS LATEST REVISIONS SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS, SIGNALS AND MARKINGS SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC CONTROL DEVICES ARE ERECTED OR PLACED OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM WITH SUCH STANDARDS.

14. CONES SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH.

15. AS THE PAVING OPERATION MOVES, THE FLAGGER SIGNS SHALL BE MOVED ACCORDINGLY. AT NO TIME SHOULD THE FLAGGER SYMBOL SIGN BE MORE THAN 1000 FT FROM THE FLAGGER STATION. FLAGGER SIGNS SHALL BE COVERED OR TURNED AWAY IF FLAGGING OPERATIONS CEASE FOR MORE THAN 15 MINUTES.

16. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.

17. ALL PERMANENT SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETELY COVERED. THE PAYMENT FOR WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10 TRAFFIC CONTROL.

18. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS.

19. DIAMOND SHAPED SIGNS SHALL BE 4 FEET BY 4 FEET WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.

20. CONSTRUCTION ZONE SIGNS SHALL BE INSTALLED AS OUTLINED IN THE SPECIAL PROVISIONS.

21. WHERE TEMPORARY SIGNS ARE PLACED BEHIND GUARDRAIL, THEY SHALL BE ADJUSTED SUCH THAT THE BOTTOM OF THE SIGNS ARE ABOVE THE TOP OF GUARDRAIL.

TRAFFIC CONTROL NOTES

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(I)

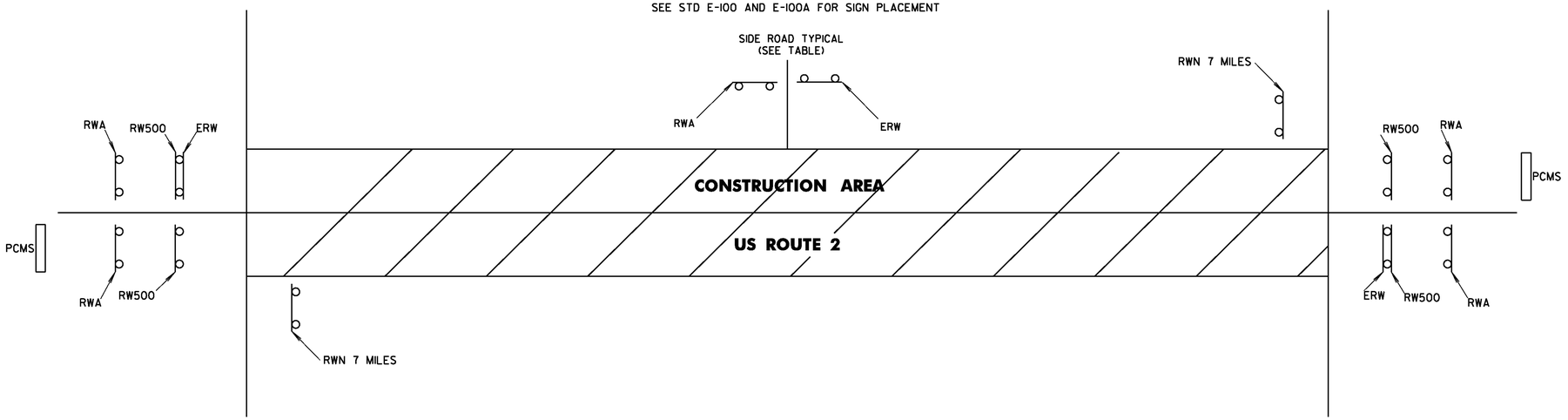
FILE NAME: p07CI72.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07CI72_216.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 216 OF 217

CONSTRUCTION APPROACH SIGNING

NOT TO SCALE

SEE STD E-100 AND E-100A FOR SIGN PLACEMENT



	ROAD WORK AHEAD	END ROAD WORK	ROAD WORK 500 FT	SIDE ROAD WORK AHEAD	SIDE ROAD WORK 500 FT	ROAD WORK NEXT 7 MILES	PCMS
BOLTON							
BEGIN PROJECT	2	1	2	4	4	1	1
TH#11	1	1					
TH#18	1	1					
JOINER BROOK LN	1	1					
BOLTON VALLEY ACCESS RD	1	1					
TH#6	1	1					
WATERBURY							
JENNY DAVIS RD	1	1					
LITTLE RIVER RD	1	1					
END PROJECT	2	1	2			1	1
TOTALS	11	11	4	4	4	2	2

LEGEND

SRW500 = SIDE ROAD WORK 500FT
SRWA = SIDE ROAD WORK AHEAD
RWA = ROAD WORK AHEAD
RW500 = ROAD WORK 500 FT
ERW = END ROAD WORK
RWN = ROAD WORK NEXT 7 MILES
PCMS = PORTABLE CHANGEABLE MESSAGE SIGN

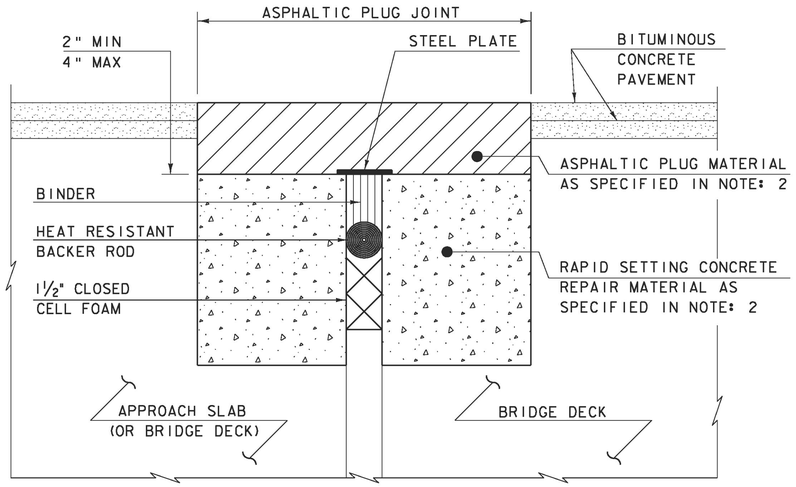
DETAILS ARE NOT TO SCALE

CONSTRUCTION APPROACH SIGNING SHEET

PROJECT NAME: BOLTON-WATERBURY
PROJECT NUMBER: STP 2709(1)

FILE NAME: p07C172.dgn
PROJECT LEADER: CDL
DESIGNED BY: BMB
PLOT FILE: p07C172_217.1

PLOT DATE: 4/16/2013
DRAWN BY: JBG/BMB
CHECKED BY: CDL
SHEET 217 OF 217



ASPHALTIC PLUG-TYPE JOINT DETAIL - REHAB

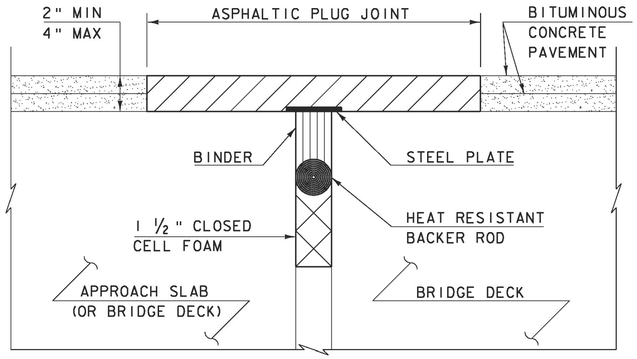
(NOT TO SCALE)

NOTES:

1. THE CONTRACTOR SHALL REMOVE ALL ASPHALTIC PLUG JOINT MATERIAL AND DETERIORATED CONCRETE AS DIRECTED BY THE ENGINEER. REMOVAL OF THE FIRST 4 INCHES OF MATERIAL SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 516.10 BRIDGE EXPANSION JOINT, ASPHALTIC PLUG. ANY REMOVAL OF MATERIAL GREATER THAN 4 INCHES SHALL BE INCLUDED IN THE BID PRICE OF ITEM 580.20 RAPID SETTING CONCRETE REPAIR MATERIAL WITH COURSE AGGREGATE.

2. THE CONTRACTOR SHALL REPLACE REMOVED MATERIAL THAT IS LESS THAN 4" FROM FINISHED GRADE WITH ASPHALTIC PLUG JOINT MATERIAL MEETING THE REQUIREMENTS OF SUBSECTION 707.15. ALL REMOVED MATERIAL THAT IS GREATER THAN 4 INCHES FROM FINISHED GRADE SHALL BE REPLACED WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE MEETING THE REQUIREMENTS OF SUBSECTION 780.04.

3. REINFORCING STEEL NOT SHOWN FOR CLARITY.



ASPHALTIC PLUG-TYPE JOINT DETAIL - NEW

(NOT TO SCALE)

ASPHALTIC PLUG JOINT NOTES

INSTALLATION:

1. LOCATE THE JOINT CENTRALLY OVER THE DECK OVERLAY EXPANSION GAP OR FIXED JOINT, MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.
2. REMOVE THE BITUMINOUS CONCRETE PAVEMENT FULL DEPTH AS SHOWN ON THE PLANS. THE PAVEMENT SHALL BE DRY AND SAW CUT TO THE LIMITS REQUIRED TO PLACE THE JOINT. A PNEUMATIC HAMMER AND CHISEL MAY BE USED ADJACENT TO THE CURB ONLY WHEN SAW CUTTING IS NOT POSSIBLE.
3. BLAST CLEAN THE JOINT AREA OF DEBRIS, ASPHALT AND SHEET MEMBRANE. THOROUGHLY DRY THE JOINT AREA WITH COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.
4. REPAIR MATERIAL GREATER THAN 4 INCHES FROM FINISHED GRADE WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE MEETING THE REQUIREMENTS OF SUBSECTION 780.04.
5. PLACE PROPERLY SIZED HEAT RESISTANT BACKER ROD IN THE MOVEMENT GAP ALLOWING FOR 1" +/- OF BINDER ABOVE THE ROD.
6. HEAT AND PLACE THE BINDER MATERIAL AS RECOMMENDED BY THE MANUFACTURER.
7. PLACE 1/4" THICK BY 8" WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE THE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRE-STAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER. THE STEEL PLATES MAY BE OMITTED WHERE THE ENGINEER DETERMINES THAT THE APPROACH SLAB OR BRIDGE DECK WILL PROVIDE INADEQUATE SUPPORT AND WHERE VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.
8. HEAT AND MIX THE BINDER MATERIAL AND AGGREGATE AS RECOMMENDED BY THE MANUFACTURER.
9. INSTALLATION OF MATERIAL, COMPACTION, AND TOP COATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
10. IMMEDIATELY AFTER TOP COATING, CAST AN ANTI-SKID MATERIAL OVER THE JOINT TO REDUCE THE RISK OF TRACKING.
11. ONCE THE JOINT REACHES 82 DEG C (180 DEG F) +/-, WATER MAY BE USED TO EXPEDITE THE COOLING PROCESS.
12. PROTECT JOINT FROM TRAFFIC UNTIL THE MATERIAL HAS COOLED TO 51 DEG C (125 DEG F) +/-.

WEATHER LIMITATIONS

APPLY BINDER MATERIAL ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL OR AS RECOMMENDED BY THE MANUFACTURER:

1. THE AMBIENT AIR TEMPERATURE IS AT LEAST 10 DEG C (50 DEG F) AND RISING.
2. THE ROAD SURFACE IS DRY.
3. WEATHER CONDITIONS OR OTHER CONDITIONS ARE FAVORABLE AND ARE EXPECTED TO REMAIN SO FOR THE PERFORMANCE OF SATISFACTORY WORK.

REVISIONS	
MAY 7, 2010	APPROVED FOR USE BY VAOT STRUCTURES SECTION

BRIDGE JOINT
ASPHALTIC PLUG

VERMONT AGENCY OF TRANSPORTATION
STRUCTURES - DIVISION

STRUCTURES DETAIL
SD-516.10