TOWN OF WORCESTER
BEGIN GUARDRAIL
BEGIN PROJECT STP 2209(I)S
STA. 208+33.00 MM 3.946

601.0010 15" CSP .064 (2-2/3 X 1/2)
~~STA. 218+19 - STA. 218+49 LT~~
~~STA. 221+29 - STA. 221+59 RT~~
STA. 219+90 - STA. 220+10 RT
STA. 214+45 - STA. 214+65 RT
STA. 210+60 RT - EXTENSION

646.402 ~~DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
~~STA. 208+33.36 - STA. 224+75 (SOLID LT & RT)~~

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 208+33.36 - STA. 224+75 (SOLID LT & RT)

646.412 ~~DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
~~STA. 208+33.36 - STA. 224+75 (SOLID LT & RT)~~

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 208+33.36 - STA. 224+75 (SOLID LT & RT)

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 208+70.50 - STA. 209+08.00 LT
~~STA. 208+33.00 - STA. 209+08.00 RT~~
STA. 210+46.75 - STA. 210+78.00 LT83+00
~~STA. 210+46.75 - STA. 210+78.00 RT~~
STA. 221+79.00 - STA. 223+79.00 LT221+12.5
~~STA. 221+81.50 - STA. 223+31.50 RT~~
~~STA. 225+25.00 - STA. 227+25.00 LT~~
STA. 224+37.00 - STA. 224+99.50 LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 208+33.00 - STA. 208+70.50 LT
83.00 STA. 210+~~78.00~~ - STA. 211+~~15.50~~ LT20.5
00.00 STA. 215+~~92.00~~ - STA. ~~216+29.50~~ LT215+37.5
STA. 215+05.5-215+43 RT ~~STA. 215+89.00 - STA. 216+26.50 RT~~ 215+43 215+37.5
30.50 STA. 217+~~01.50~~ - STA. 217+~~39.00~~ RT68.00
~~STA. 218+04.50 - STA. 218+42.00 LT~~
~~STA. 221+41.50 - STA. 221+79.00 LT~~
~~STA. 221+44.00 - STA. 221+81.50 RT~~
STA. ~~223+31.50~~ - STA. ~~223+69.00~~ RT225+37
~~STA. 223+79.00 - STA. 224+16.50 LT~~
STA. 221+00-221+37.00 RT 224+99.5

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 208+33.00 - STA. 209+33.00 LT
STA. 208+33~~.00~~ - STA. 209+33~~.00~~ RT
22 STA. 210+~~15.50~~ - STA. 210+78~~6.00~~ RT
20 STA. 210+~~15.50~~ - STA. 211+~~15.50~~ LT20
215+43 STA. ~~216+14.00~~ - STA. ~~217+39.00~~ RT216+77
12 STA. 216+~~17.00~~ - STA. 218+17.00 LT
30.0 STA. 221+~~41.50~~ - STA. 224+~~16.50~~ LT55.0
STA. 221+~~44.00~~ - STA. 223+~~69.00~~ RT54.46

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FOOT POSTS
STA. 208+36-209+10 RT
STA. ~~216+26.50~~ - STA. 217+~~01.50~~ RT30.50
STA. ~~216+29.50~~ - STA. ~~218+04.50~~ LT220+00
STA. 221+37.00 - STA. 224+37.00 RT
CURVE #2 STA. 221+12.5 - STA. 225+25 LT
DELTA = 14°09'23"
D = 8°48'53"
R = 650.00'
T = 80.71'
L = 160.60'
BANKING 0.08 FT/FT
190' RUNOFF (50 MPH)
SEE SUPERELEVATION SHEET 1
FOR BANKING DETAIL

CURVE #1
DELTA = 21°42'51"
D = 2°17'31"
R = 2500.00'
T = 479.48'
L = 947.46'
BANKING 0.043 FT/FT
150' RUNOFF (50 MPH)
SEE SUPERELEVATION SHEET
FOR BANKING DETAIL

621.215 HD STEEL BEAM GUARDRAIL, GALV. W/8' POSTS
STA. 209+20.5-STA. 209+33 LT
STA. 210+20.5-STA. 210+33 LT
STA. 209+10.0-STA. 209+35 LT
STA. 210+22.5-STA. 210+35 LT

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
STA. 209+08.00 - STA. 209+~~33.00~~ LT20.5
~~STA. 209+08.00 - STA. 209+33.00 RT~~
33.0 STA. 210+~~15.50~~ - STA. 210+~~46.75~~ LT51.75
35.0 STA. 210+~~15.50~~ - STA. 210+~~46.75~~ RT54.00

621.60 ANCHOR FOR STEEL BEAM RAIL
STA. 210+~~65.50~~ RT
64.00

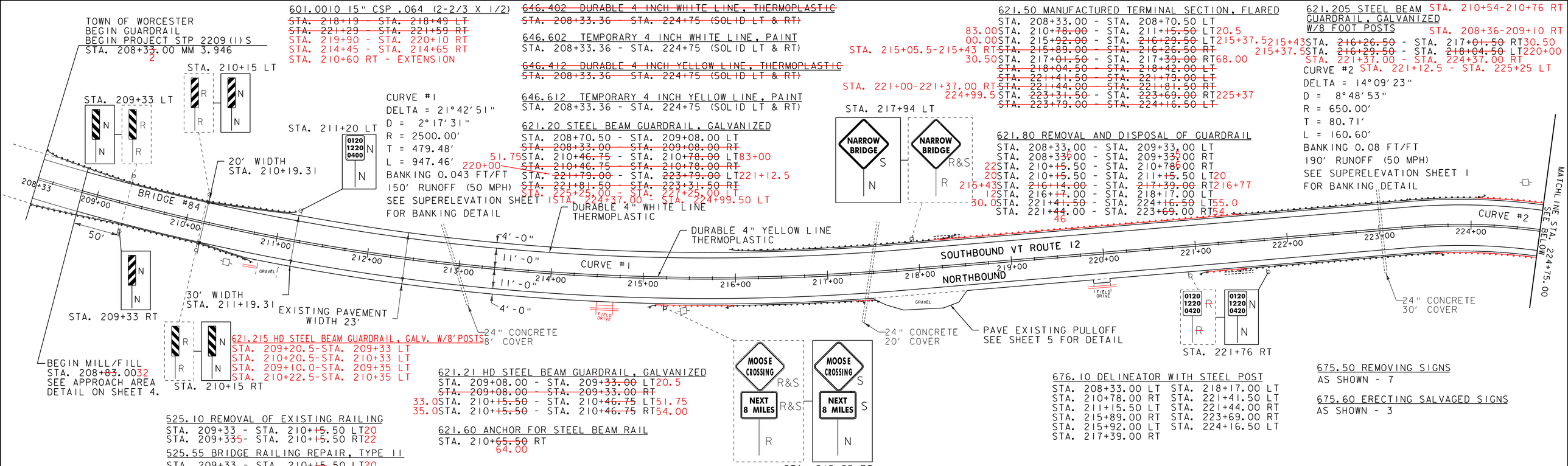
525.10 REMOVAL OF EXISTING RAILING
STA. 209+33 - STA. 210+~~15~~.50 LT20
STA. 209+~~33~~5- STA. 210+~~15~~.50 RT22

525.55 BRIDGE RAILING REPAIR, TYPE II
STA. 209+33 - STA. 210+~~15~~.50 LT20
STA. 209+~~33~~5- STA. 210+~~15.50~~ RT22.5

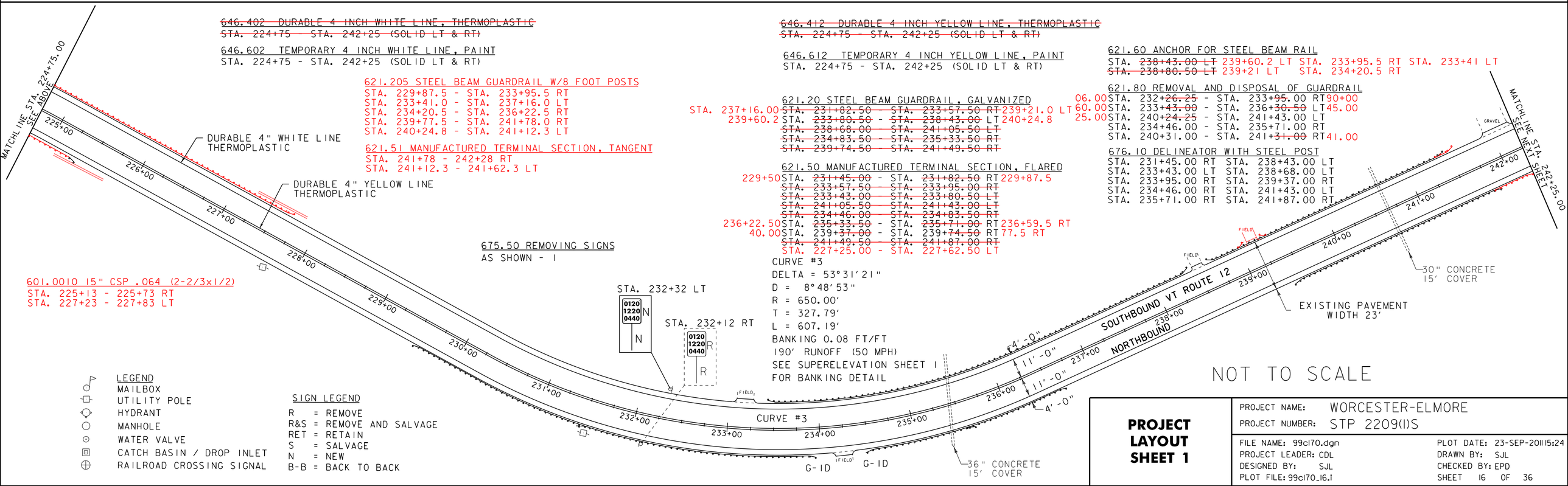
675.50 REMOVING SIGNS
AS SHOWN - 7

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 3

676.10 DELINEATOR WITH STEEL POST
STA. 208+33.00 LT STA. 218+17.00 LT
STA. 210+78.00 RT STA. 221+41.50 LT
STA. 211+15.50 LT STA. 221+44.00 RT
STA. 215+89.00 RT STA. 223+69.00 RT
STA. 215+92.00 LT STA. 224+16.50 LT
STA. 217+39.00 RT



BEGIN MILL/FILL
STA. 208+~~83~~.0032
SEE APPROACH AREA
DETAIL ON SHEET 4.



601.0010 15" CSP .064 (2-2/3x1/2)
STA. 225+13 - 225+73 RT
STA. 227+23 - 227+83 LT

646.402 ~~DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
~~STA. 224+75 - STA. 242+25 (SOLID LT & RT)~~

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 224+75 - STA. 242+25 (SOLID LT & RT)

646.412 ~~DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
~~STA. 224+75 - STA. 242+25 (SOLID LT & RT)~~

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 224+75 - STA. 242+25 (SOLID LT & RT)

621.205 STEEL BEAM GUARDRAIL W/8 FOOT POSTS
STA. 229+87.5 - STA. 233+95.5 RT
STA. 233+41.0 - STA. 237+16.0 LT
STA. 234+20.5 - STA. 236+22.5 RT
STA. 239+77.5 - STA. 241+78.0 RT
STA. 240+24.8 - STA. 241+12.3 LT

621.51 MANUFACTURED TERMINAL SECTION, TANGENT
STA. 241+78 - 242+28 RT
STA. 241+12.3 - 241+62.3 LT

675.50 REMOVING SIGNS
AS SHOWN - 1

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 237+16.00 ~~STA. 231+82.50 - STA. 233+57.50 RT~~ 239+21.0 LT
239+60.2 STA. ~~233+80.50 - STA. 238+43.00~~ LT240+24.8
~~STA. 238+68.00 - STA. 241+05.50 LT~~
~~STA. 234+83.50 - STA. 235+33.50 RT~~
~~STA. 239+74.50 - STA. 241+49.50 RT~~

621.50 MANUFACTURED TERMINAL SECTION, FLARED
229+50 STA. ~~231+45.00~~ - STA. ~~231+82.50~~ RT229+87.5
~~STA. 233+57.50 - STA. 233+95.00 RT~~
~~STA. 233+43.00 - STA. 233+80.50 LT~~
~~STA. 241+05.50 - STA. 241+43.00 LT~~
~~STA. 234+46.00 - STA. 234+83.50 RT~~
236+22.50 STA. ~~235+33.50~~ - STA. ~~235+71.00~~ RT236+59.5 RT
40.00 STA. 239+~~37.00~~ - STA. 239+~~74.50~~ RT77.5 RT
~~STA. 241+49.50 - STA. 241+87.00 RT~~
~~STA. 227+25.00 - STA. 227+62.50 LT~~

CURVE #3
DELTA = 53°31'21"
D = 8°48'53"
R = 650.00'
T = 327.79'
L = 607.19'
BANKING 0.08 FT/FT
190' RUNOFF (50 MPH)
SEE SUPERELEVATION SHEET 1
FOR BANKING DETAIL

621.60 ANCHOR FOR STEEL BEAM RAIL
STA. ~~238+43.00 LT~~ 239+60.2 LT STA. 233+95.5 RT STA. 233+41 LT
~~STA. 238+80.50 LT~~ 239+21 LT STA. 234+20.5 RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
06.00 STA. 232+~~26.25~~ - STA. 233+~~95~~.00 RT90+00
60.00 STA. 233+~~43.00~~ - STA. 236+~~30.50~~ LT45.00
25.00 STA. 240+~~24.25~~ - STA. 241+43.00 LT
STA. 234+46.00 - STA. 235+71.00 RT
STA. 240+31.00 - STA. 241+~~31.00~~ RT41.00

676.10 DELINEATOR WITH STEEL POST
STA. 231+45.00 RT STA. 238+43.00 LT
STA. 233+43.00 LT STA. 238+68.00 LT
STA. 233+95.00 RT STA. 239+37.00 RT
STA. 234+46.00 RT STA. 241+43.00 LT
STA. 235+71.00 RT STA. 241+87.00 RT

STA. 232+32 LT
STA. 232+12 RT

LEGEND
MAILBOX
UTILITY POLE
HYDRANT
MANHOLE
WATER VALVE
CATCH BASIN / DROP INLET
RAILROAD CROSSING SIGNAL

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

NOT TO SCALE

PROJECT LAYOUT SHEET 1

PROJECT NAME: WORCESTER-ELMORE
PROJECT NUMBER: STP 2209(I)S

FILE NAME: 99cl70.dgn
PROJECT LEADER: CDL
DESIGNED BY: SJL
PLOT FILE: 99cl70_16.i
PLOT DATE: 23-SEP-2011 15:24
DRAWN BY: SJL
CHECKED BY: EPD
SHEET 16 OF 36