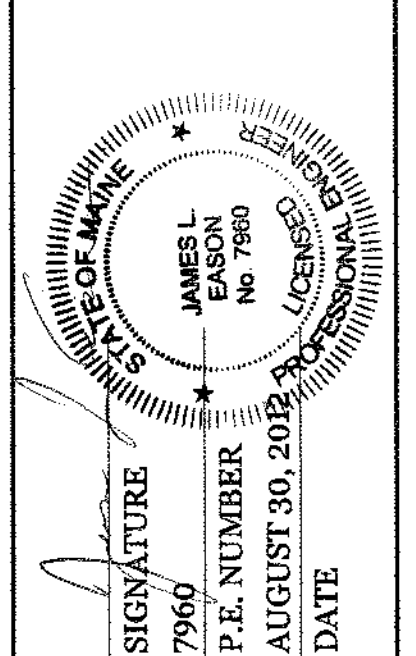


SUMMARY OF EARTHWORK AND BORROW

<u>COMMON EXCAVATION FOR ESTIMATE</u>		
COMMON EXCAVATION (FROM CROSS SECTIONS)	919 CY	
PAVED ISLAND	2 CY	
GRUBBING IN FILL	90 CY	
TOTAL COMMON EXCAVATION		<u>1,011 CY</u>
<u>FILL FOR BORROW CALCULATIONS</u>		
COMMON FILL (FROM CROSS SECTIONS)	44 CY	
GRUBBING IN FILL	90 CY	
TOTAL FILL		<u>134 CY</u>
<u>ROCK EXCAVATION FOR ESTIMATE</u>		
ROCK EXCAVATION	0 CY	
TOTAL ROCK EXCAVATION		<u>0 CY</u>
<u>AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS</u>		
(1) TOTAL COMMON EXCAVATION		<u>1,011 CY</u>
DEDUCTIONS:		
GRUBBING IN CUT	250 CY	
GRUBBING IN FILL	90 CY	
PAVEMENT SALVAGE REMOVAL	3 CY	
(2) TOTAL DEDUCTIONS		<u>343 CY</u>
TOTAL AVAILABLE NON-ROCK EXCAVATION (1) MINUS (2)		<u>668 CY</u>
<u>COMPUTATION OF COMMON BORROW FOR ESTIMATE</u>		
(3) TOTAL FILL		<u>134 CY</u>
TOTAL AVAILABLE NON-ROCK EXCAV.	668	X 0.85 = <u>568 CY</u>
TOTAL AVAILABLE ROCK EXCAV.	0	X 1.33 = <u>0 CY</u>
(4) TOTAL AVAILABLE EXCAVATION		<u>568 CY</u>
BORROW NEEDED (3) MINUS (4)		<u>-434 CY</u>
TOTAL SURPLUS WASTE MATERIAL		<u>777 CY</u>

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
IM-1921(600)X
WIN
19216.00
HIGHWAY PLANS



PROJ. MANAGER	BRIAN KEELZER	BY	ALL	DATE	8-12
DESIGN-DETAILED	JLE				8-12
CHECKED-REVIEWED	ALG				
DESIGN-DETAILED					
DESIGN-DEF. ALE03					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

BANGOR
I-95 EXIT 185 SB OFF-RAMP
EARTHWORK SUMMARY

SHEET NUMBER
3
OF 18

Date: 8/30/2012

Username: jason

Filename: ... \HIGHWAY\MSTA\006_Geometry.dgn Division: HIGHWAY

Horizontal Alignment Name: 1002

STATION	NORTHING	EASTING
PC (100)	19+96.46	481334.50172
PI ()	20+03.30	481328.20580
CC (101)	481342.32275	1731043.52723
PT (102)	20+09.64	481324.86693
Radius:	20.00	
Delta:	37°45'52.8" Left	
Degree of Curvature(Arc):	286°28'44.0"	
Length:	13.18	
Tangent:	6.84	
External:	1.14	
PI (103)	20+17.66	481320.95224
Tangent Direction:	S 60°47'04.6" E	
Tangent Length:	8.02	
PI (104)	20+27.08	481316.35536
Tangent Direction:	S 60°47'04.6" E	
Tangent Length:	9.42	
PI (105)	20+31.08	481314.40298
Tangent Direction:	S 60°47'04.6" E	
Tangent Length:	4.00	
PC (106)	20+37.19	481311.42268
Tangent Direction:	S 60°47'04.6" E	
Tangent Length:	6.11	
PI ()	20+42.68	481308.74136
CC (107)	481333.24246	1731070.00819
PT (108)	20+48.00	481308.31712
Radius:	25.00	
Delta:	2°47'10.1" Left	
Degree of Curvature(Arc):	229°10'59.2"	
Length:	10.82	
Tangent:	5.49	
External:	0.60	

PI (109) 20+52.00 481308.00821 1731072.06555
 Tangent Direction: S 85°34'14.8" E
 Tangent Length: 4.00
 PI (110) 21+00.00 481304.30279 1731119.92231
 Tangent Direction: S 85°34'21.3" E
 Tangent Length: 48.00
 PI (111) 22+00.02 481294.58818 1731219.46979
 Tangent Direction: S 84°25'34.6" E
 Tangent Length: 100.02
 PI (112) 23+37.33 481283.98819 1731356.36656
 Tangent Direction: S 85°34'20.6" E
 Tangent Length: 137.31
 PI (113) 23+41.33 481283.67938 1731360.35462
 Tangent Direction: S 85°34'20.1" E
 Tangent Length: 4.00
 PC (114) 23+50.32 481282.98510 1731369.32077
 Tangent Direction: S 85°34'20.1" E
 Tangent Length: 8.99
 PI () 23+74.78 481281.09702 1731393.70421
 CC (115) 482386.68123 1731454.78338
 PT (116) 23+99.22 481280.28763 1731418.14725
 Radius: 1107.00
 Delta: 2°31'52.3" Left
 Degree of Curvature(Arc): 5°10'32.8"
 Length: 48.90
 Tangent: 24.46
 External: 0.27
 PI (117) 24+79.22 481271.41956 1731497.64577
 Tangent Direction: S 83°38'05.9" E
 Tangent Length: 79.99
 POE (118) 24+99.22 481271.25040 1731517.64509
 Tangent Direction: S 89°30'55.3" E
 Tangent Length: 20.00

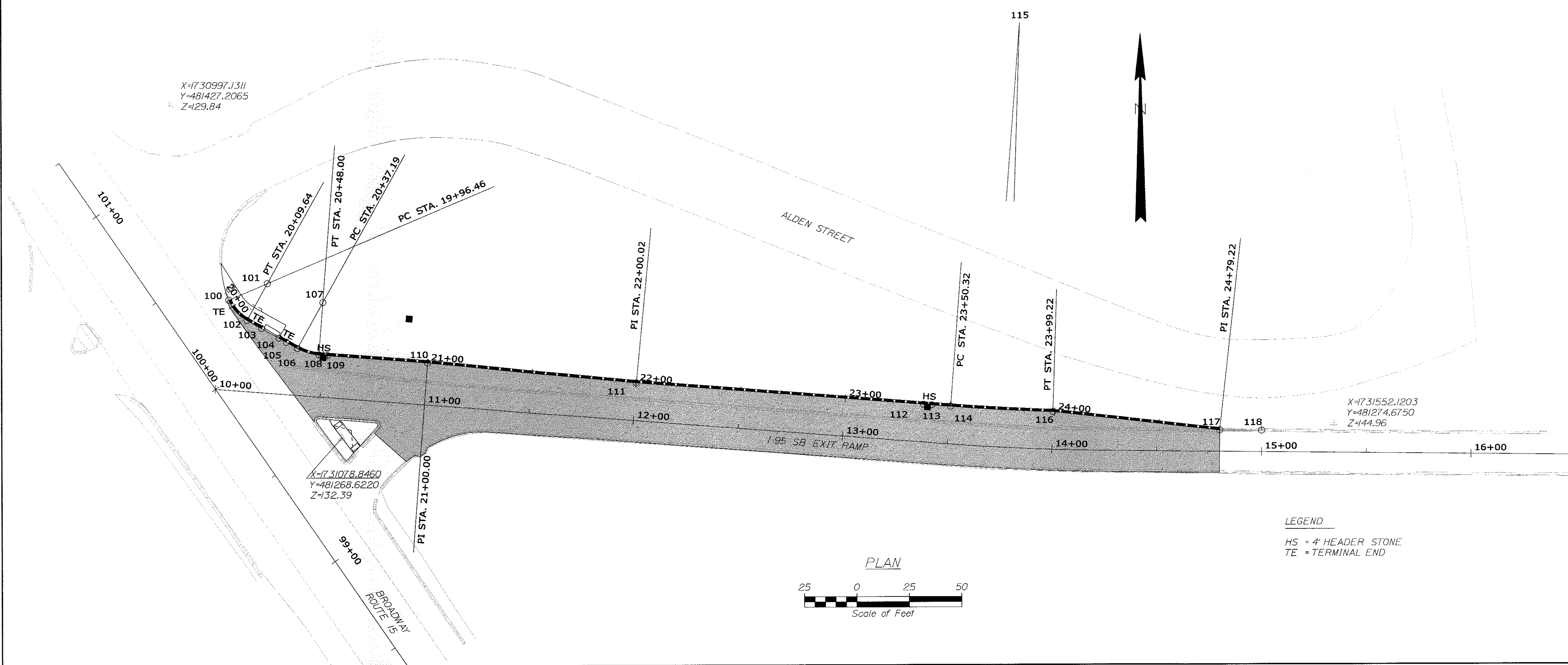
CONTROL POINTS FOR 1002 - RAMP CURBLINE				
Point	Station	Offset	NORTHING	EASTING
100	19+96.46	0.00	481334.5017	1731025.1199
101	19+96.46	-20.00	481342.3228	1731043.5272
102	20+09.64	0.00	481324.8669	1731033.7654
103	20+17.66	0.00	481320.9522	1731040.7655
104	20+27.08	0.00	481316.3554	1731048.9854
105	20+31.08	0.00	481314.4030	1731052.4766
106	20+37.19	0.00	481311.4227	1731057.8058
107	20+37.19	-25.00	481333.2425	1731070.0082
108	20+48.00	0.00	481308.3171	1731068.0775
109	20+52.00	0.00	481308.0082	1731072.0656
110	21+00.00	0.00	481304.3028	1731119.9223
111	22+00.02	0.00	481294.5882	1731219.4698
112	23+37.33	0.00	481283.9882	1731356.3666
113	23+41.33	0.00	481283.6794	1731360.3546
114	23+50.32	0.00	481282.9851	1731369.3208
115	23+50.32	-1107.00	482386.6812	1731454.7834
116	23+99.22	0.00	481280.2876	1731418.1473
117	24+79.22	0.00	481271.4196	1731497.6458
118	24+99.22	0.00	481271.2504	1731517.6451

Horizontal Alignment Name: 1000 - RAMP

STATION	NORTHING	EASTING
POB 10+00.00	481292.08268	1731018.67672
PC 13+50.30	481265.03882	1731367.93114
Tangent Direction:	S 85°34'20.1" E	
Tangent Length:	350.2999	
PI 13+88.09	481262.12169	1731405.60405
CC	482386.68123	1731454.78338
PT 14+25.84	481261.73895	1731443.38780
Radius:	1125.00	
Delta:	3°50'50.5" Left	
Degree of Curvature(Arc):	5°05'34.6"	
Length:	75.54	
Tangent:	37.79	
External:	0.63	
PT 14+25.84	481261.73895	1731443.38780
POE 18+72.92	481257.21030	1731890.44427
Tangent Direction:	S 89°25'10.6" E	
Tangent Length:	447.08	

Horizontal Alignment Name: 1001 - BROADWAY

STATION	NORTHING	EASTING
POB 98+26.87	481149.59401	173117.01664
POE 101+31.03	481399.92362	1730944.24927
Tangent Direction:	N 34°36'42.7" W	
Tangent Length:	304.16	



LEGEND
 HS = 4' HEADER STONE
 TE = TERMINAL END

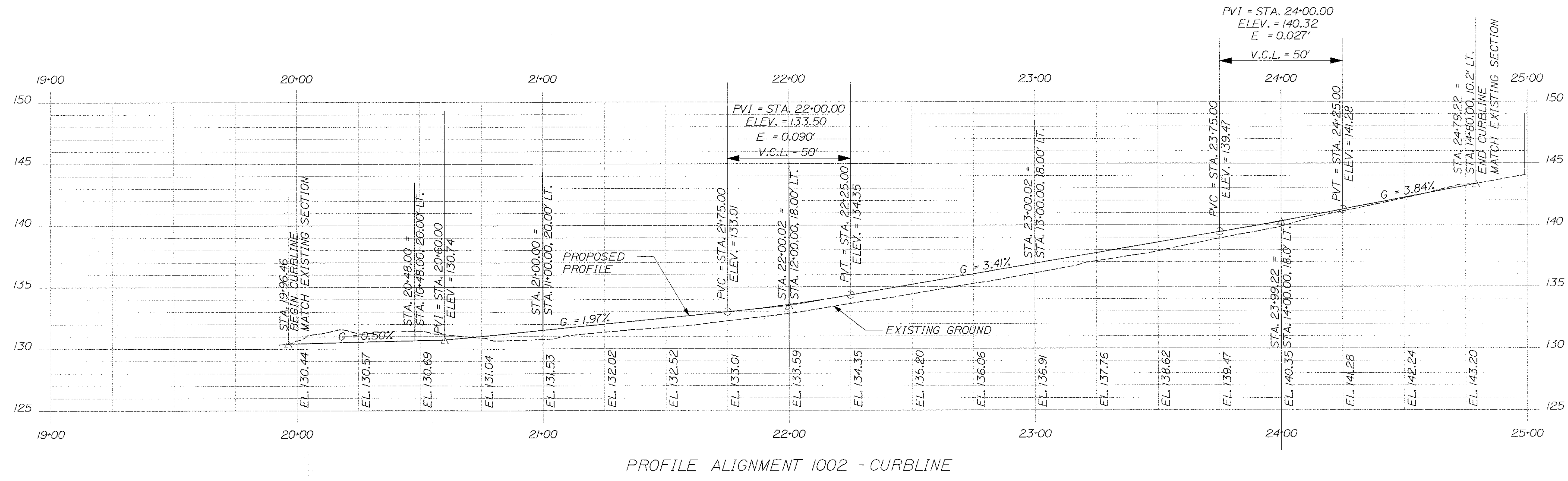
STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 IM-1921(600)X
 WIN
 19216.00
 HIGHWAY PLANS

SIGNATURE
 JAMES L. EASON
 No. 7960
 AUGUST 30, 2012
 DATE

PROJ. MANAGER	DESIGN/DETAILER	CHECKED/REVIEWED	INSSD/DET/ALD	DESIGNS/DET/ALD	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
BRIAN KEEZER	J.L.E.	J.L.E.							

BANGOR
 I-95 EXIT 185 SB OFF-RAMP
 CURB GEOMETRY PLAN

SHEET NUMBER
 6
 OF 18



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
IM-1921(600)X
WIN
19216.00
HIGHWAY PLANS

SIGNATURE
7960
P.E. NUMBER
AUGUST 30, 2012
DATE

PROJ. MANAGER	BRIAN REEZER	BY	DATE
DESIGN-DETAILED	JLE	JLE	8-12
CHECKED-REVIEWED	ALG		8-12
DESIGN-DETAILED02			
DESIGN-DETAILED03			
REVISIONS	1		
REVISIONS	2		
REVISIONS	3		
REVISIONS	4		
FIELD CHANGES			

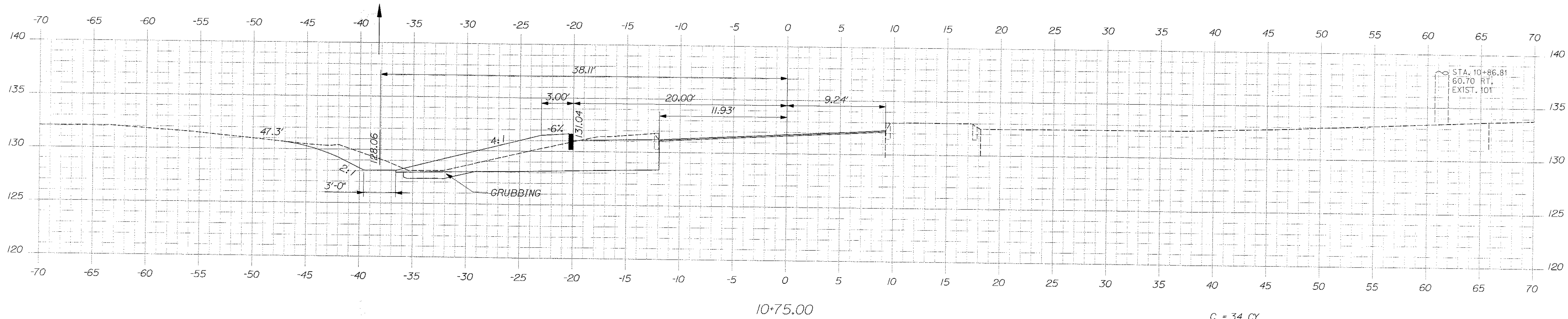
BANGOR
I-95 EXIT 185 SB OFF-RAMP
CURB GEOMETRY PROFILE

Date: 8/30/2012

Username: jeeson

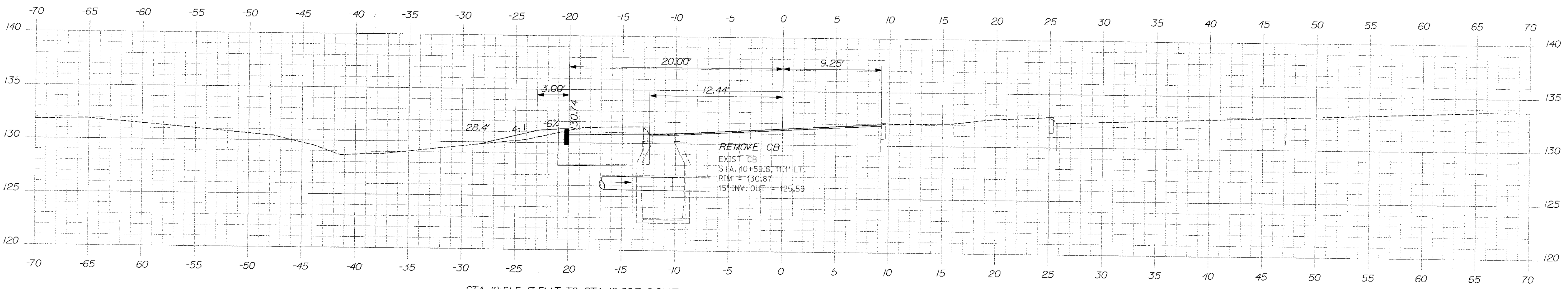
Division: HIGHWAY

Filename: ...MSTIA\008_XSECT_10+50_001.dgn



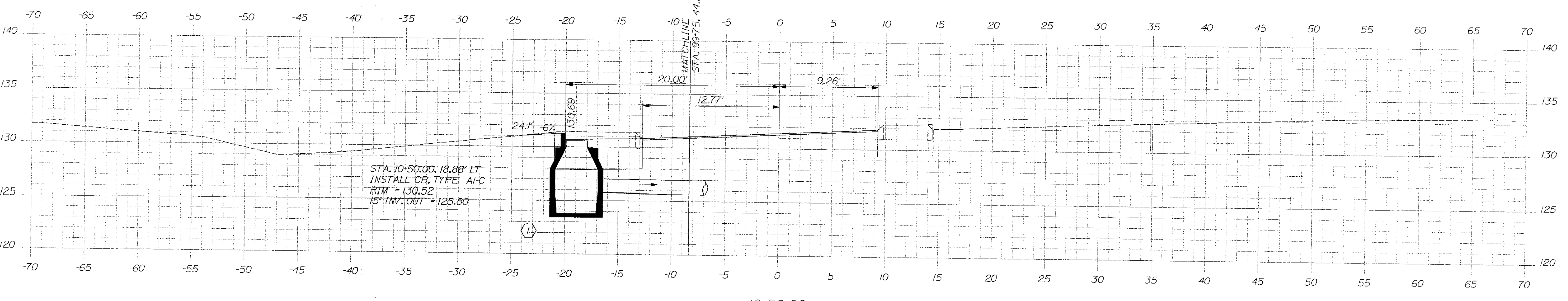
10+75.00

C = 34 CY
F = 1 CY
G = 1 CY



10+59.80

STA. 10+51.5, 17.5' LT. TO STA. 10+60.7, 9.8' LT.
INSTALL 12 LF X 15" RCP CLASS III



10+50.00

STA. 10+37.6
BEGIN 1.5" MILL AND HMA OVERLAY

STA. 10+50.00, 18.88' LT.
INSTALL CB, TYPE A/C
RIM = 130.52
15" INV. OUT = 125.80

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
IM-1921(600)X
WIN
19216.00
HIGHWAY PLANS

PROF. ENGINEER
STATE OF MAINE
JAMES L. EASON
No. 7960
SIGNATURE
7960
P.E. NUMBER
AUGUST 30, 2012
DATE

PROJ. MANAGER	DESIGNED	CHECKED	DATE
BRIAN KEEZER	JLE	JLE	8-12
BY	JLE	JLE	8-12
DESIGNED	ALG		
CHECKED	ALG		
DESIGNED	ALG		
REVISIONS			
REVISIONS			
REVISIONS			
REVISIONS			
FIELD CHANGES			

BANGOR
SOUTHBOUND EXIT RAMP
CROSS SECTIONS

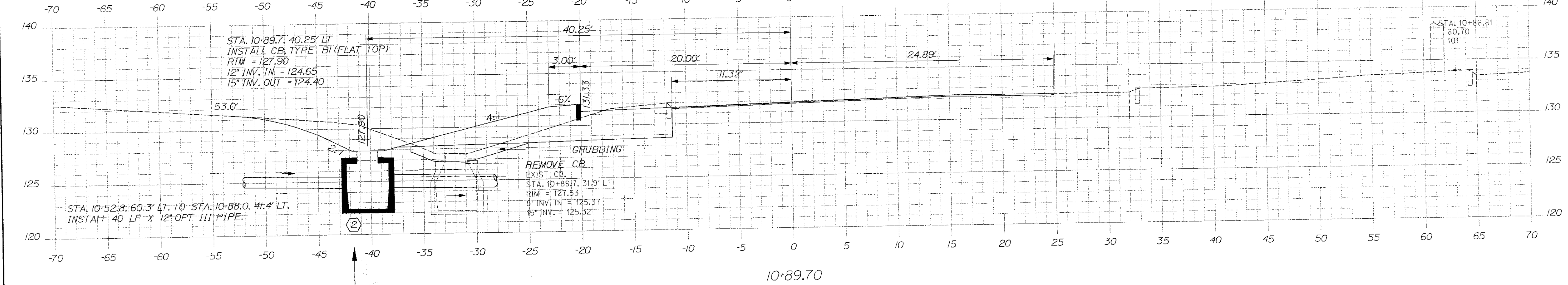
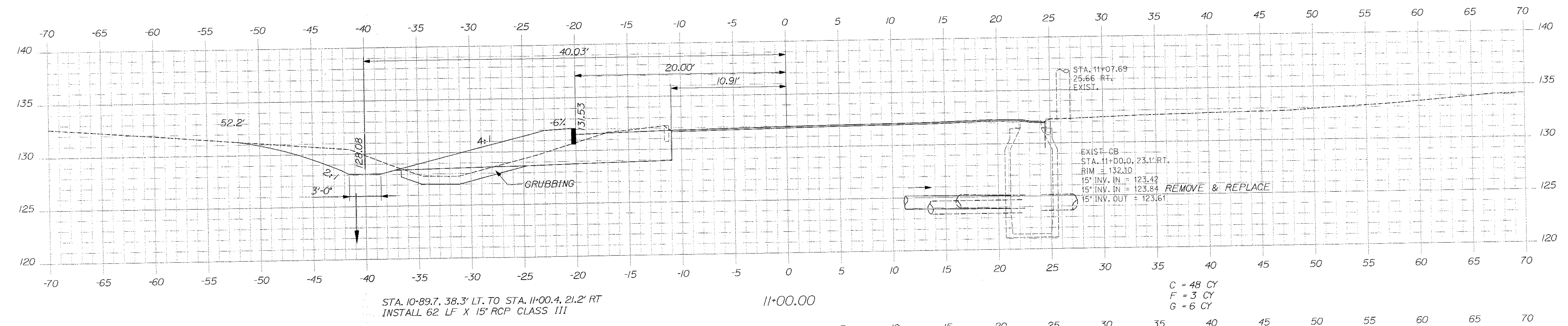
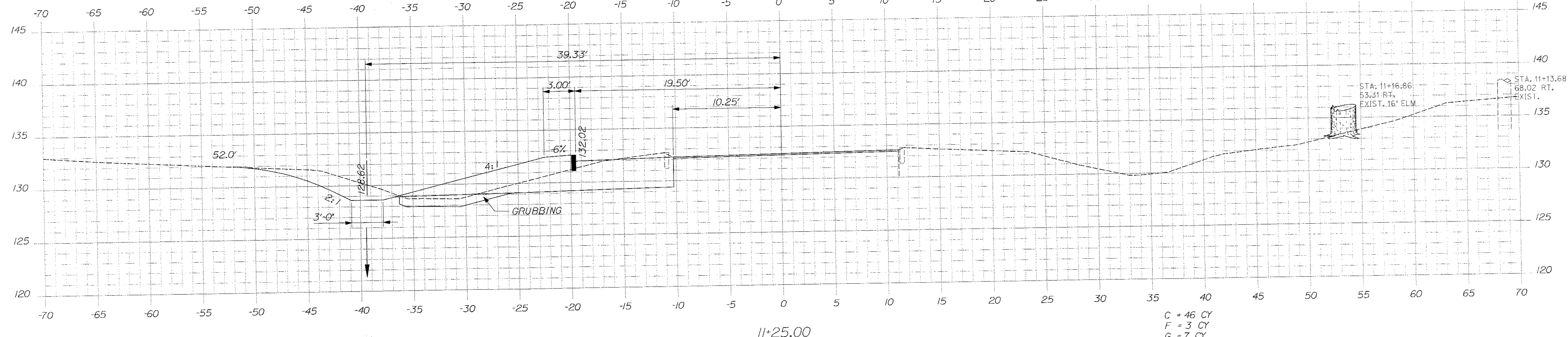
SHEET NUMBER
8
OF 18

Date: 8/30/2012

Username: jeoson

Division: HIGHWAY

Filename: ...MSTA\A009_XSECT_10+89_002.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
IM-1921(600)X
WIN
19216.00
HIGHWAY PLANS

STATE OF MAINE
JAMES L. JASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER
SIGNATURE
7960
P.E. NUMBER
AUGUST 30, 2012
DATE

DATE	BY	PROJ. MANAGER	CHECKED	DESIGNED	REVISIONS	FIELD CHANGES
8-17	J.L.	BRIAN KEEZER	J.L.	J.L.	1	
8-17					2	
					3	
					4	

BANGOR
SOUTHBOUND EXIT RAMP
CROSS SECTIONS

SHEET NUMBER
9
OF 18

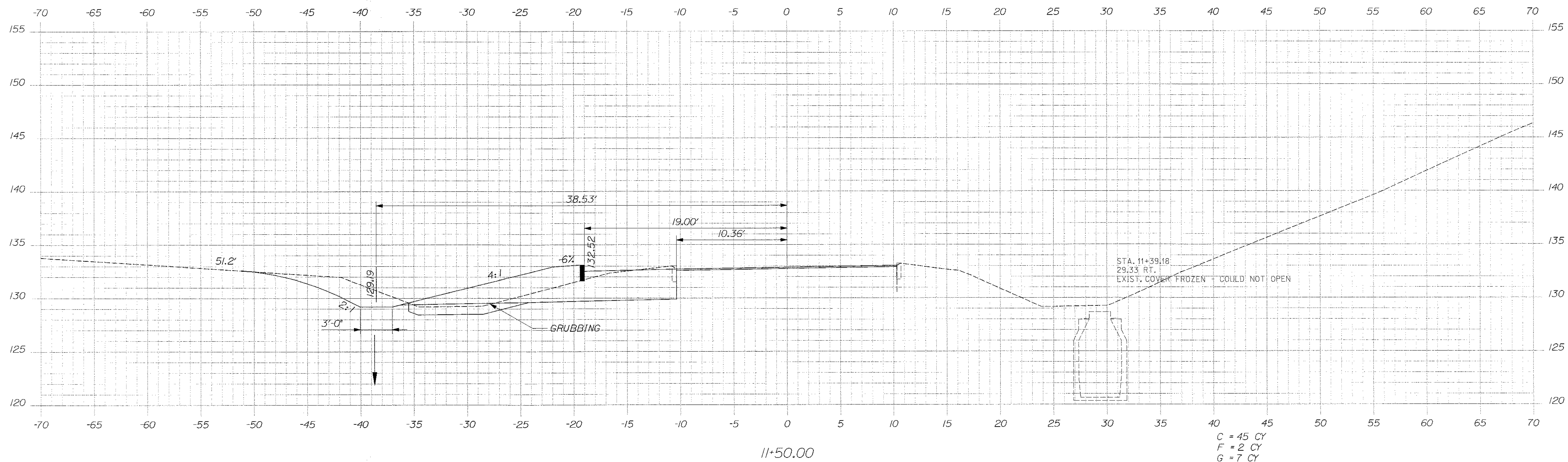
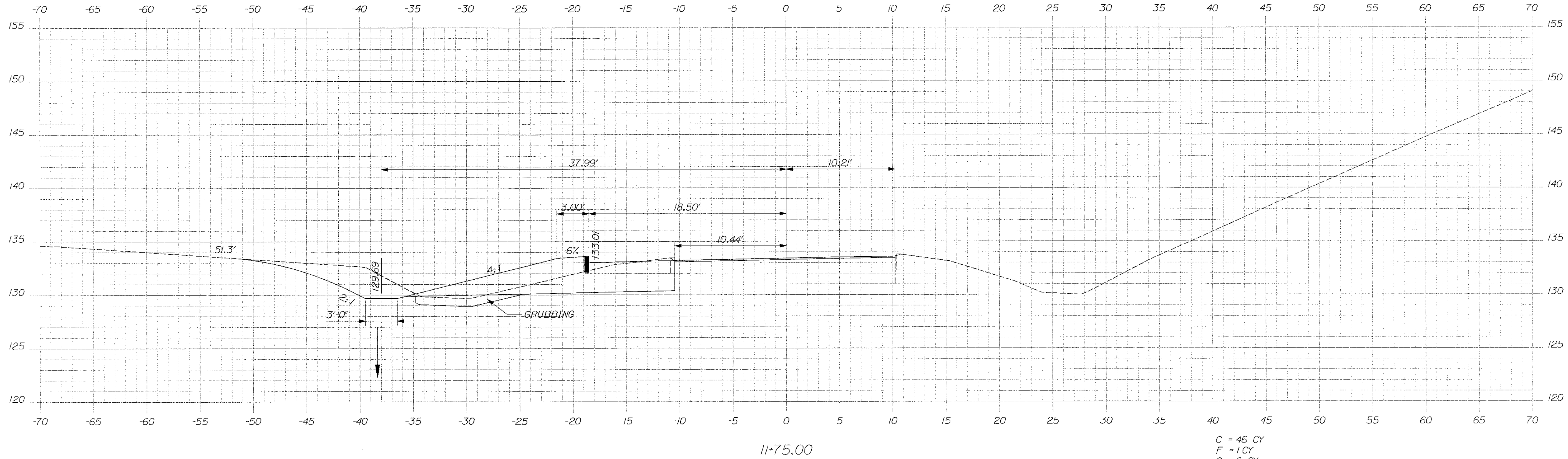
Sta. 10+89.70 to Sta. 11+25.00

Date: 8/30/2012

Username: jason

Division: HIGHWAY

Filename: ... \WSTA\010_XSECT_11+50_003.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
IM-1921(600)X

PROJ. MANAGER: BRIAN KEEZER
DESIGN-DETAILED: JLE
CHECKED-REVIEWED: ALG
DESIGN-DETAILED: JLE
DESIGN-DETAILED: JLE
REVISIONS 1:
REVISIONS 2:
REVISIONS 3:
REVISIONS 4:
FIELD CHANGES:

DATE: 8/12
BY: JLE
SIGNATURE: JASON
P.E. NUMBER: 7960
DATE: AUGUST 30, 2012
LICENSE NO.: 7960

BANGOR
SOUTHBOUND EXIT RAMP
CROSS SECTIONS

SHEET NUMBER
10
OF 18

WIN
19216.00

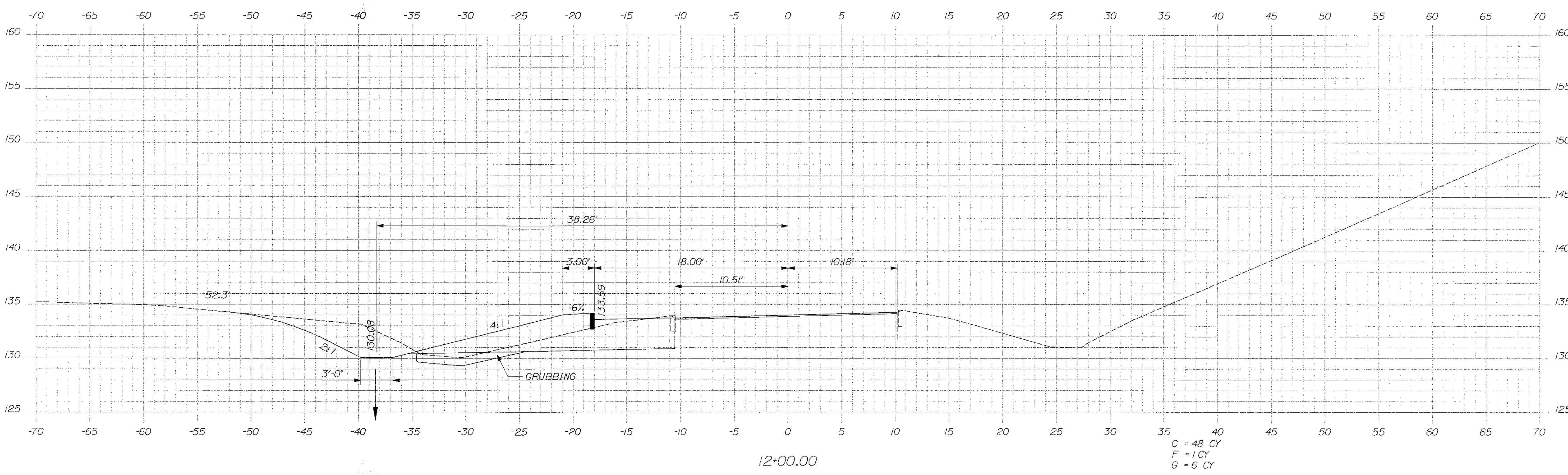
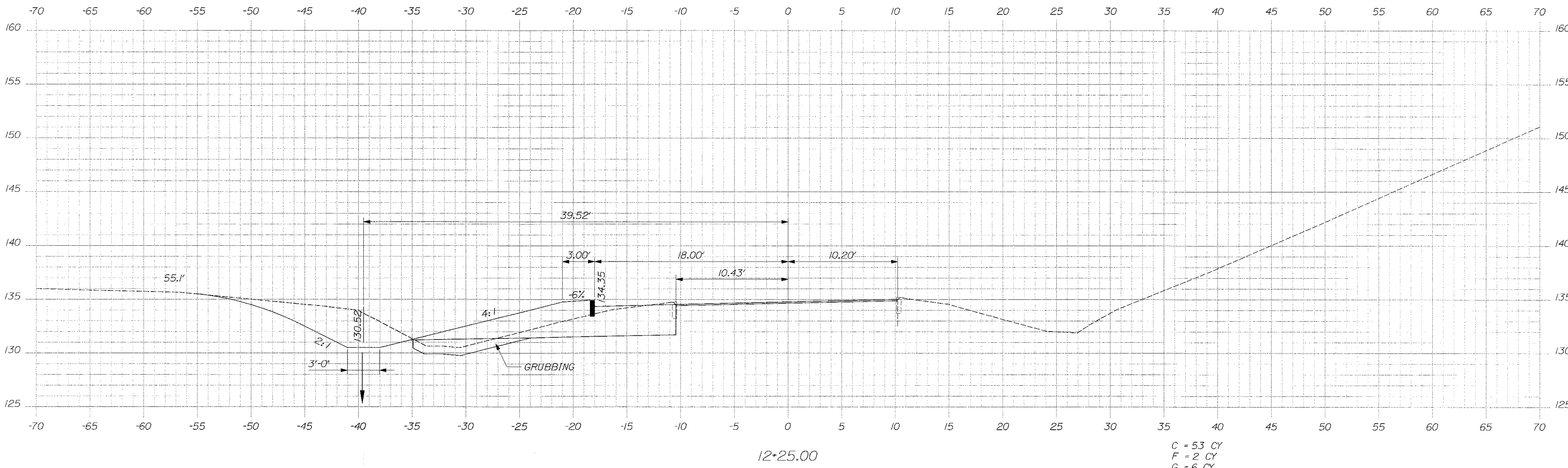
HIGHWAY PLANS

Date: 8/30/2012

Username: jeason

Division: HIGHWAY

Filename: ... \MSTAV011_XSECT_12+00_004.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
IM-1921(60)X
WIN
19216.00
HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
AUGUST 30, 2012
DATE

PROJ. MANAGER	BRIAN KEETZER	BY	JLE	DATE	8-12
DESIGN-DETAILED	JLE	CHECKED-REVIEWED	A.G.		8-12
DESIGN-DETAILED		DESIGN-DETAILED			
REVISIONS 1		REVISIONS 2			
REVISIONS 3		REVISIONS 4			
FIELD CHANGES					

BANGOR
SOUTHBOUND EXIT RAMP
CROSS SECTIONS

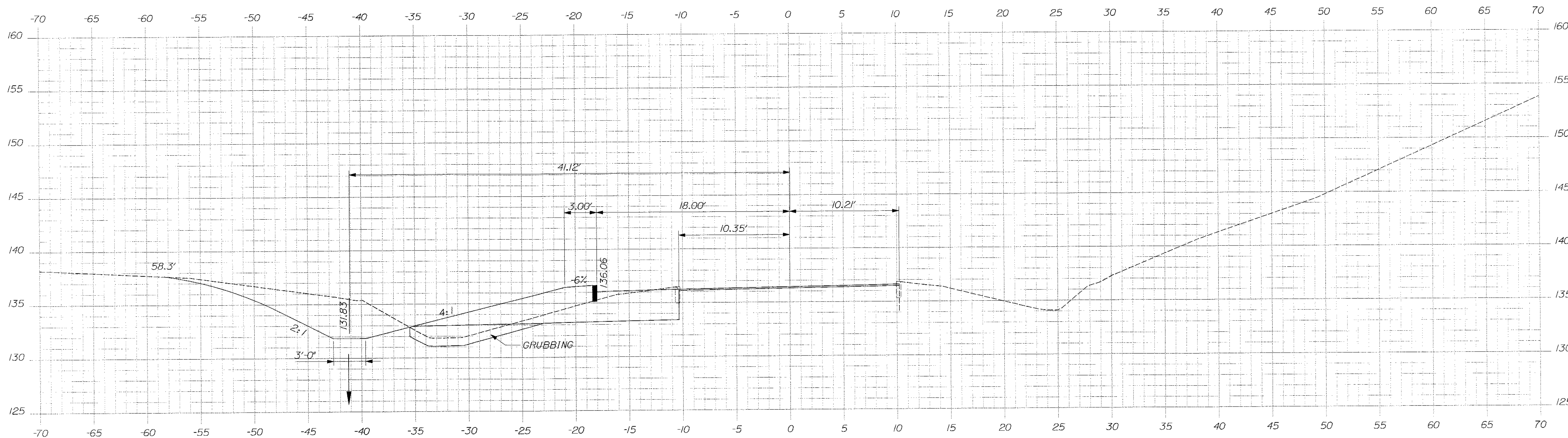
SHEET NUMBER
11
OF 18

Date: 8/30/2012

Username: jason

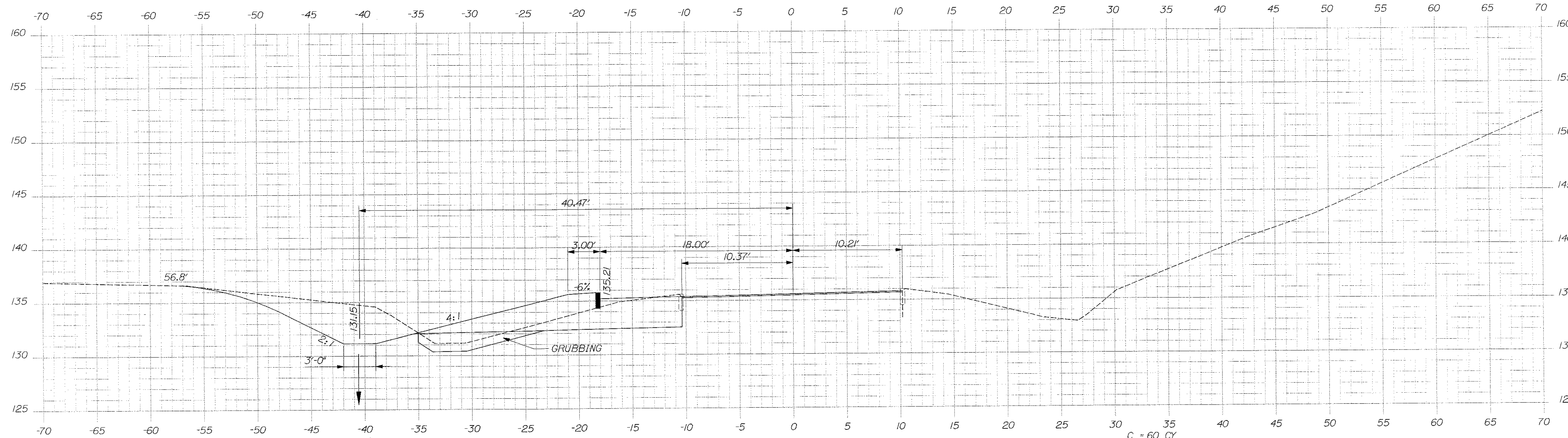
Division: HIGHWAY

Filename: ... \MSTA\02_XSECT_12+50_005.dgn



12+75.00

C = 63 CY
F = 6 CY
G = 8 CY



12+50.00

C = 60 CY
F = 4 CY
G = 7 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
IM-1921(600)X
WIN
19216.00
HIGHWAY PLANS

STATE OF MAINE
REGISTERED PROFESSIONAL ENGINEER
JAMES L. EASON
No. 7960
LICENSE EXPIRES
AUGUST 30, 2012

SIGNATURE: [Signature]
P.E. NUMBER: 7960
DATE: AUGUST 30, 2012

PROJ. MANAGER	BY	DATE
BRIAN KEELER	JLE	8/12
DESIGN/DETAILED	JLE	8/12
CHECKED/REVIEWED	JLG	
DESIGN/REVIEWED	JLG	
DESIGN/DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

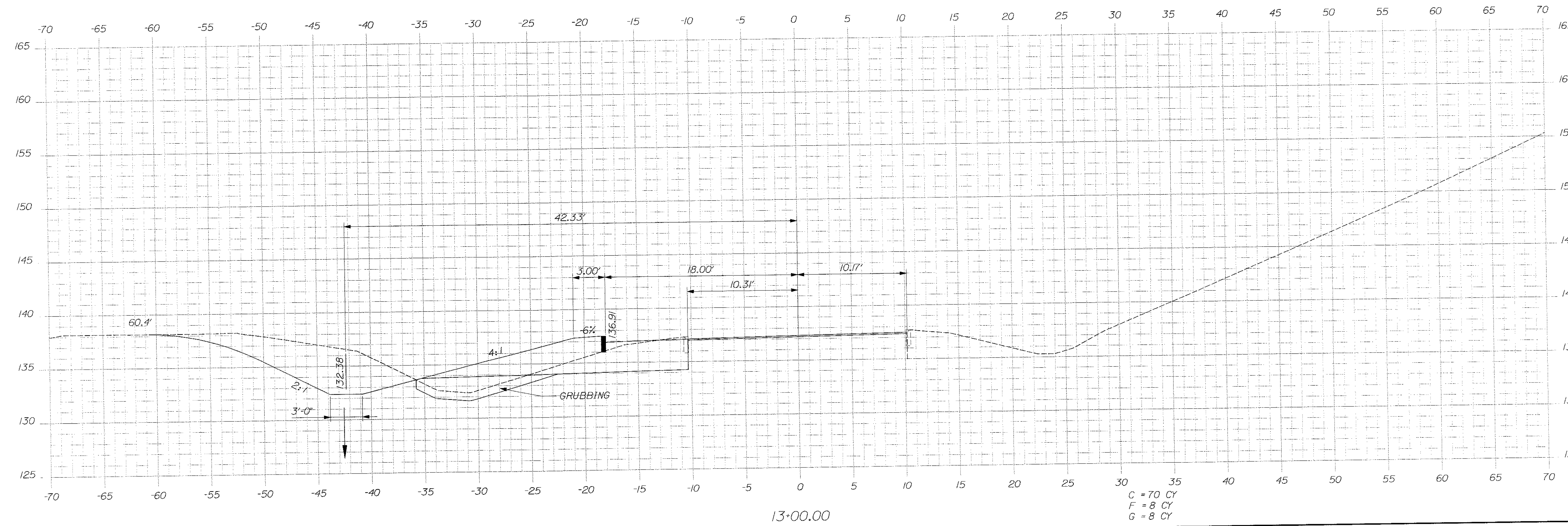
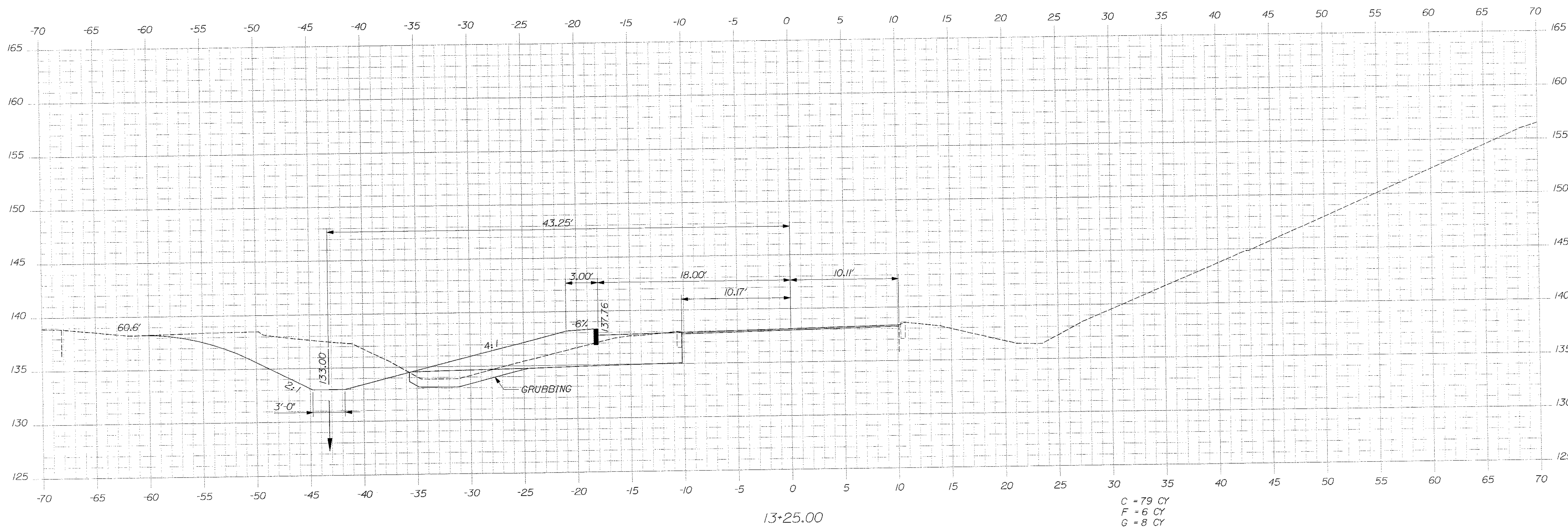
BANGOR
SOUTHBOUND EXIT RAMP
CROSS SECTIONS

SHEET NUMBER
12
OF 18

Date: 8/30/2012

Username: jeason

Filename: ...MSTA\013_XSECT_13+00_006.dgn Division: HIGHWAY



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
IM-1921(600)X
WIN
19216.00
HIGHWAY PLANS

SIGNATURE
7960
P.E. NUMBER
AUGUST 30, 2012
DATE

PROJ. MANAGER	DATE	BY
BRIAN KEEZER	8-12	J.E.
CHECKED-REVIEWED	FILE	
DESIGN-REVIEWED	FILE	
DESIGN2-REVIEWED	FILE	
DESIGN3-REVIEWED	FILE	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

BANGOR
SOUTHBOUND EXIT RAMP
CROSS SECTIONS

SHEET NUMBER
13
OF 18

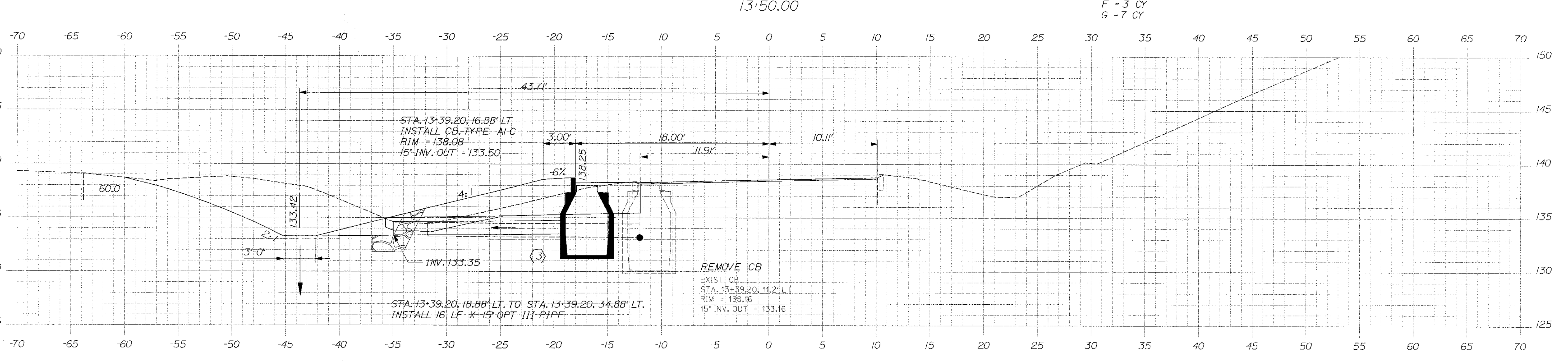
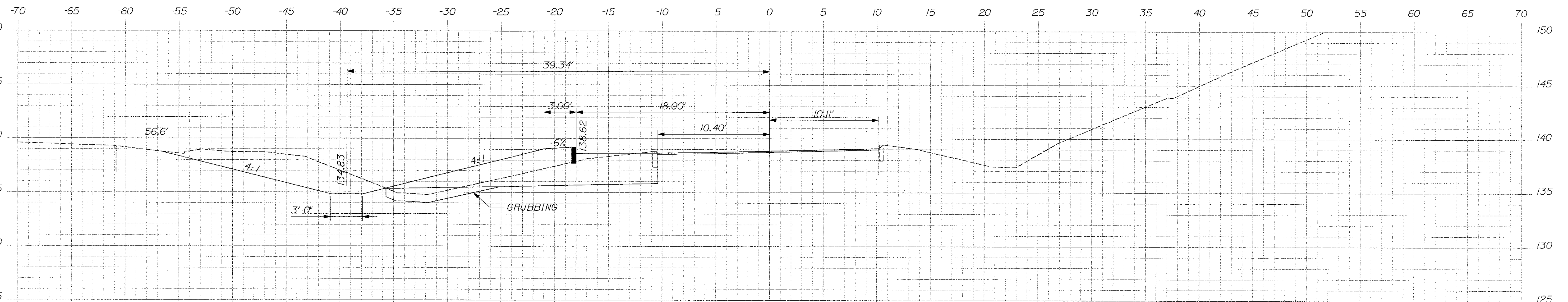
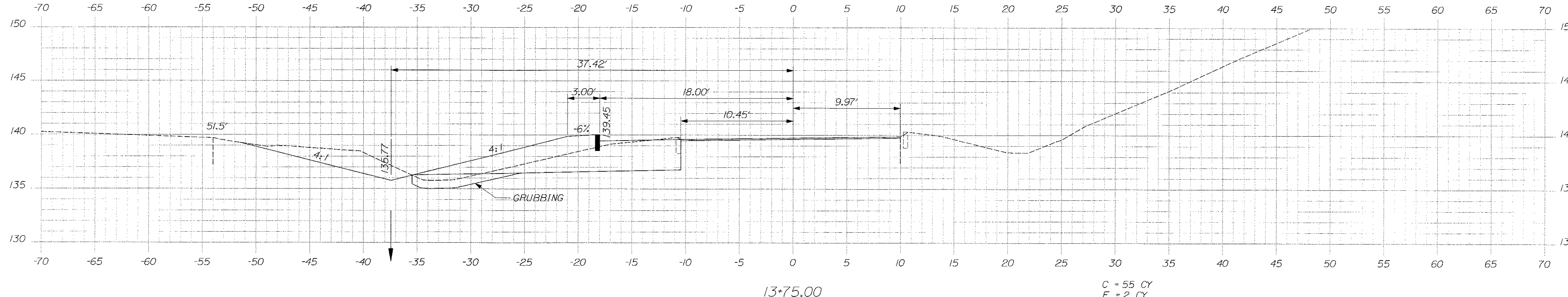
Sta. 13+00.00 to Sta. 13+25.00

Date: 8/30/2012

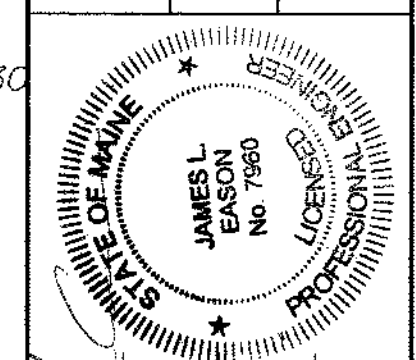
Username: jecson

Division: HIGHWAY

Filename: ... \MSTA014_XSECT_13-39_007.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
IM-1921(600)X
WIN
19216.00
HIGHWAY PLANS



SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	DESIGN DETAILER	BY	DATE
BRIAN KEIZER	BRIAN KEIZER	J.E	8/12
DESIGN REVIEWED	DESIGN REVIEWED		
DESIGN REVIEWED	DESIGN REVIEWED		
REVISIONS 1	REVISIONS 1		
REVISIONS 2	REVISIONS 2		
REVISIONS 3	REVISIONS 3		
REVISIONS 4	REVISIONS 4		
FIELD CHANGES	FIELD CHANGES		

BANGOR
SOUTHBOUND EXIT RAMP
CROSS SECTIONS

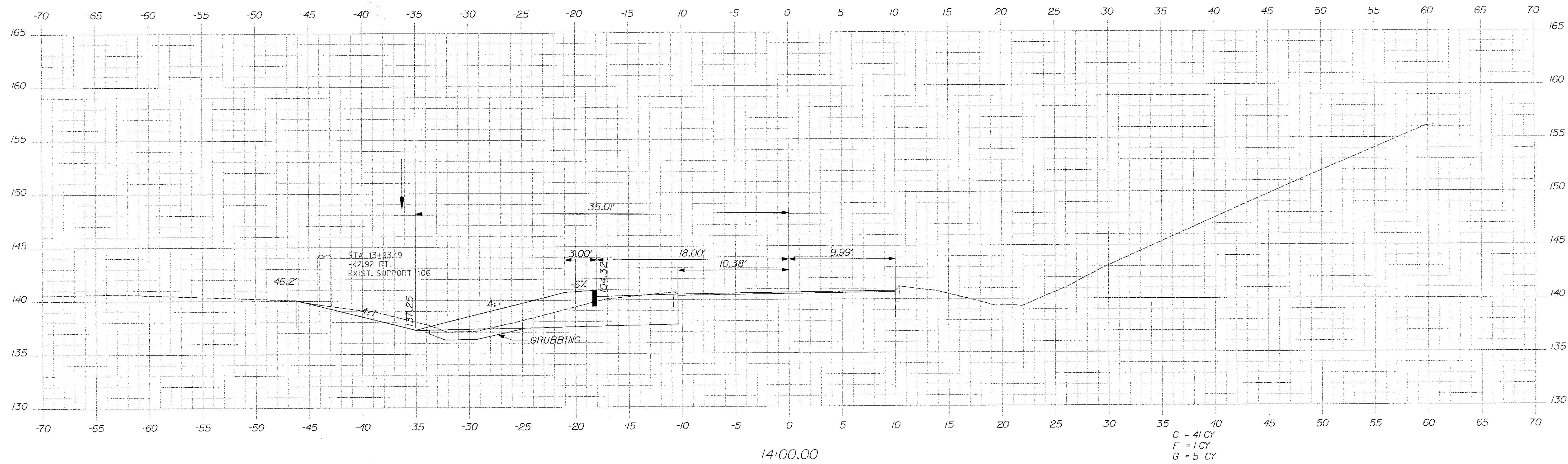
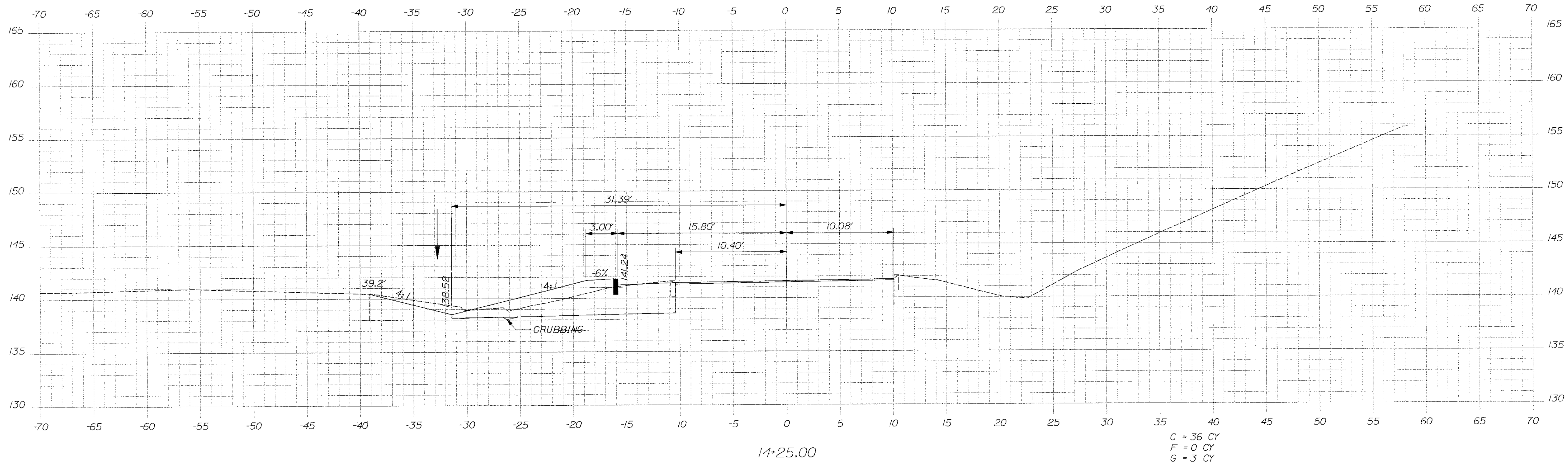
SHEET NUMBER
14
OF 18

Date: 8/30/2012

Username: jason

Division: HIGHWAY

Filename: ... \MSTA\015_XSECT_14-00_008.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
IM-1921(600)X
WIN
19216.00
HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER
SIGNATURE
P.E. NUMBER
7960
AUGUST 30, 2012
DATE

PROJ. MANAGER	BRAN KEEZER	BY	JLE	DATE	8-12
DESIGN/DETAILED	JLE	CHECKED/REVIEWED	AJC	DATE	8-12
DESIGNED/DETAILS		REVISIONS			
		REVISIONS 1			
		REVISIONS 2			
		REVISIONS 3			
		REVISIONS 4			
		FIELD CHANGES			

BANGOR
SOUTHBOUND EXIT RAMP
CROSS SECTIONS

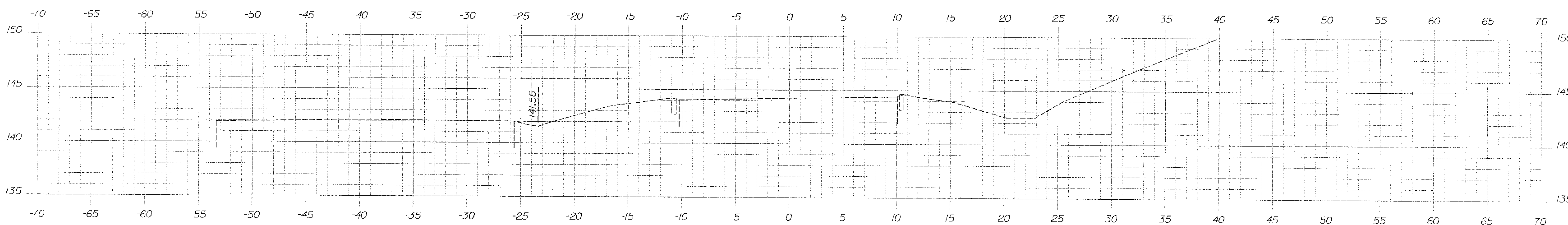
SHEET NUMBER
15
OF 18

Date: 8/30/2012

Username: jecson

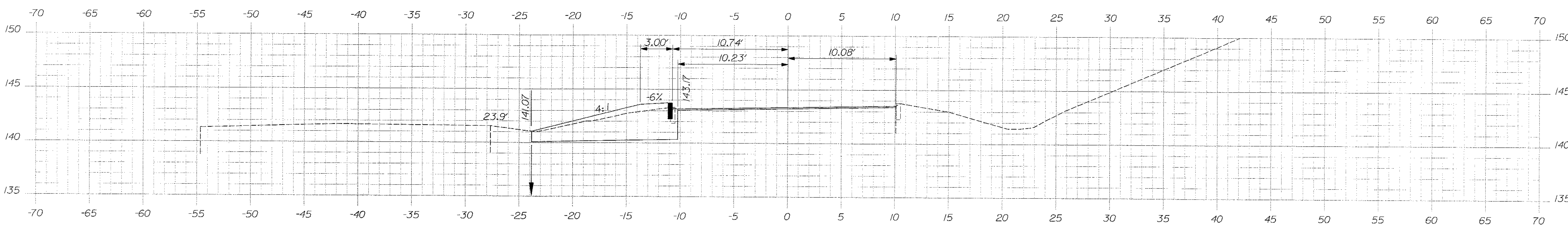
Division: HIGHWAY

Filename: ...MSTA\016.XSECT_14+50_009.dgn

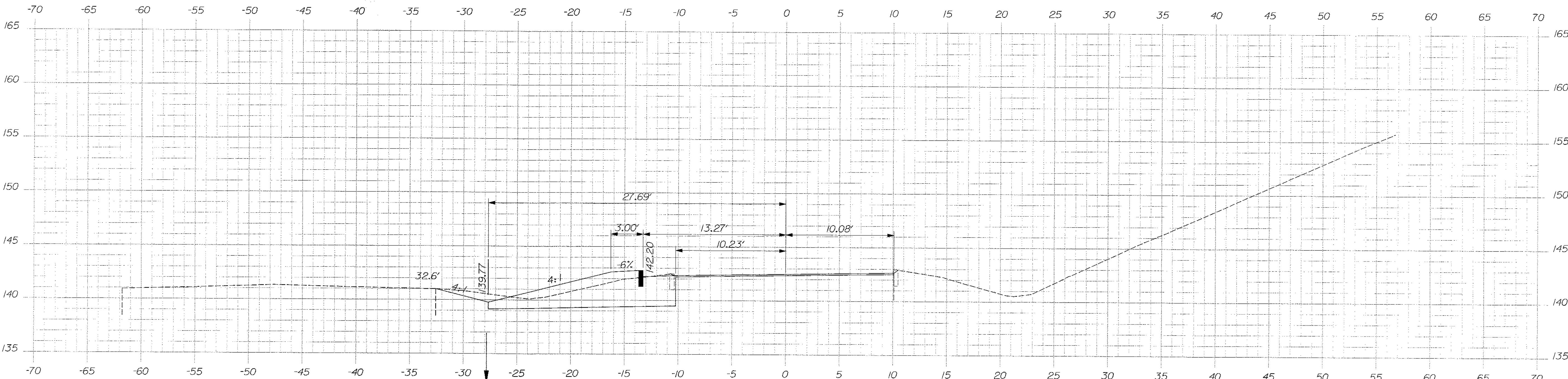


STA. 14+80
 END 1.5" MILL AND OVERLAY
 MATCH EXISTING SECTION
 END PROJECT IM-1921(600)X

C = 5 CY
 F = 0 CY
 G = 0 CY



C = 29 CY
 F = 0 CY
 G = 0 CY



C = 34 CY
 F = 0 CY
 G = 0 CY

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 IM-1921(600)X
 WIN
 19216.00
 HIGHWAY PLANS

STATE OF MAINE
 JAMES L. EASON
 No. 7960
 LICENSED PROFESSIONAL ENGINEER
 SIGNATURE
 P.E. NUMBER
 7960
 AUGUST 30, 2012
 DATE

PROJ. MANAGER	BRIAN FREEZER	DATE	8-12
DESIGN-DRAWN <td>JLE <td>BY <td>8-12</td> </td></td>	JLE <td>BY <td>8-12</td> </td>	BY <td>8-12</td>	8-12
CHECKED-REVIEWED <td>ALC <td>DATE <td>8-12</td> </td></td>	ALC <td>DATE <td>8-12</td> </td>	DATE <td>8-12</td>	8-12
DESIGNED-DRAWN <td></td> <td></td> <td></td>			
REVISIONS 1 <td></td> <td></td> <td></td>			
REVISIONS 2 <td></td> <td></td> <td></td>			
REVISIONS 3 <td></td> <td></td> <td></td>			
REVISIONS 4 <td></td> <td></td> <td></td>			
FIELD CHANGES <td></td> <td></td> <td></td>			

BANGOR
 SOUTHBOUND EXIT RAMP
 CROSS SECTIONS

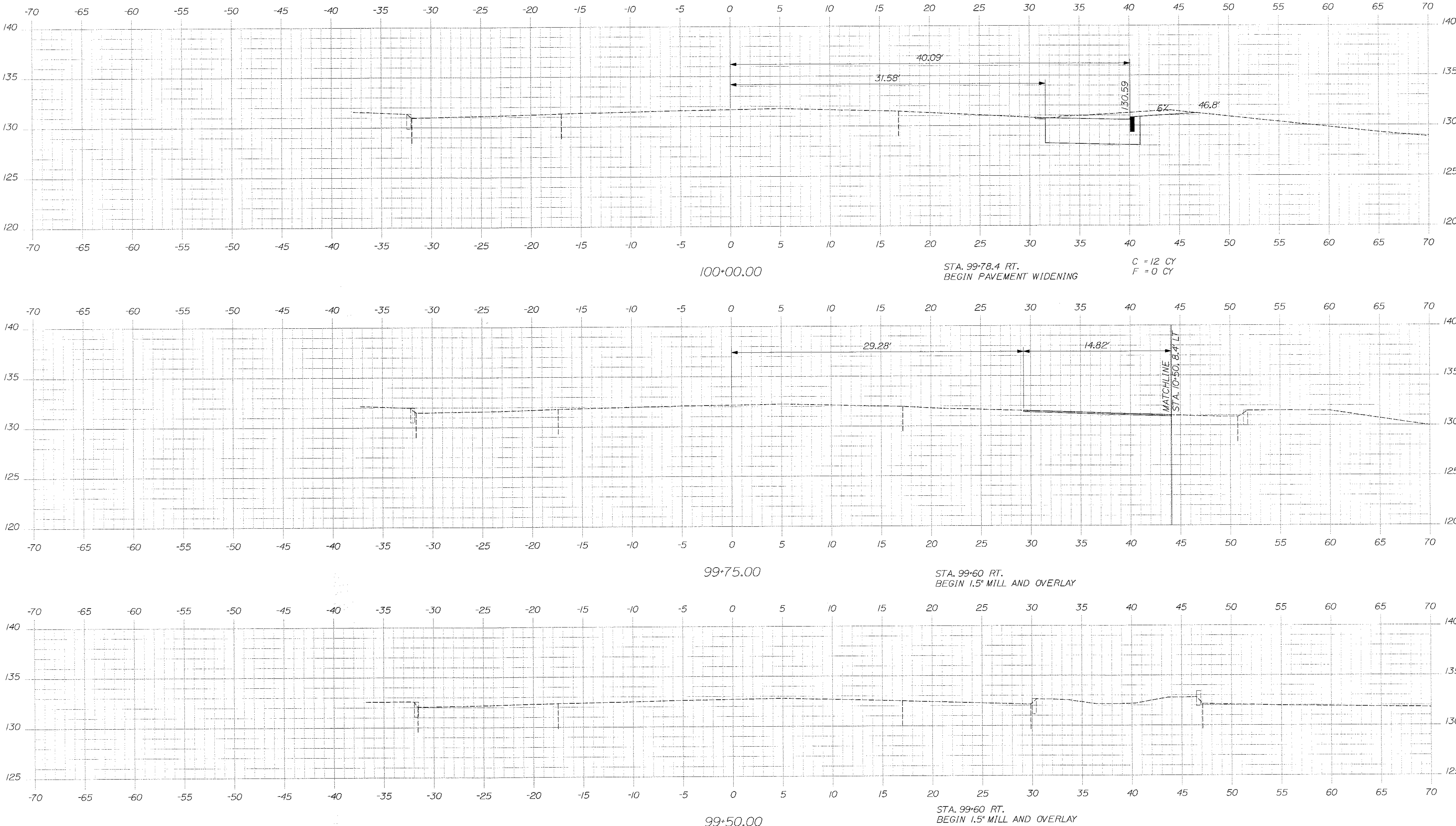
SHEET NUMBER
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 OF 18

Date: 8/30/2012

Username: jason

Division: HIGHWAY

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
IM-1921(600)X
WIN
19216.00
HIGHWAY PLANS

STATE OF MAINE
REGISTERED PROFESSIONAL ENGINEER
JAMES L. EASON
No. 7960
SIGNATURE
P.E. NUMBER
7960
DATE
AUGUST 30, 2012

PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DATE	BY
BRIAN KEEZER	JLE	AJS	8-12	JLE
	DESIGNED-REVIEWED	DESIGNED-REVIEWED		
	REVISIONS 1	REVISIONS 2		
	REVISIONS 3	REVISIONS 4		
	FIELD CHANGES			

BANGOR
BROADWAY
CROSS SECTIONS

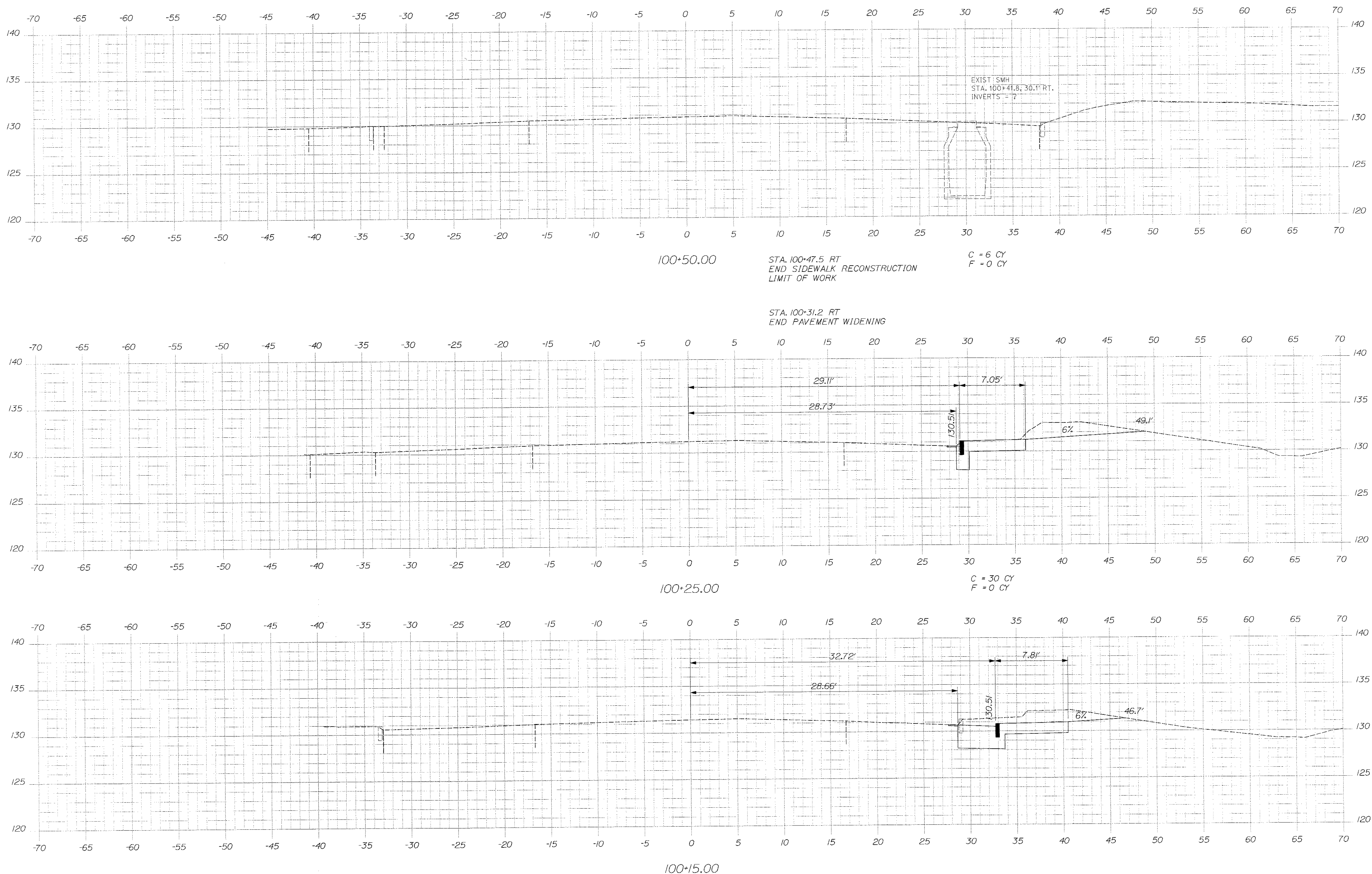
SHEET NUMBER
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OF 18

Date: 8/30/2012

Username: jeason

Division: HIGHWAY

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STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 IM-1921(600)X
 WIN
 19216.00
 HIGHWAY PLANS

STATE OF MAINE
 BANGOR
 JAMES L. BAKER
 No. 7960
 PROFESSIONAL ENGINEER
 SIGNATURE
 7960
 P.E. NUMBER
 AUGUST 30, 2012
 DATE

DATE	BY	PROJ. MANAGER	DESIGN/DETAIL	CHECKED/REVIEWED	DESIGN/DETAIL	REVISIONS	FIELD CHANGES
8-12	J.L.E.	BRIAN KEEZER	J.L.E.	J.L.E.	J.L.E.	1	
8-12						2	
						3	
						4	

BANGOR
 BROADWAY
 CROSS SECTIONS

SHEET NUMBER
 18
 OF 18