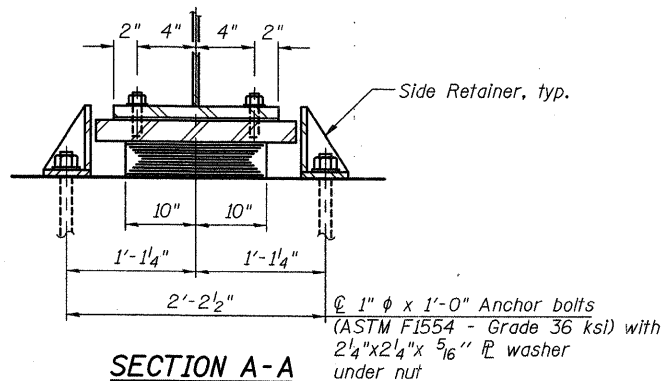
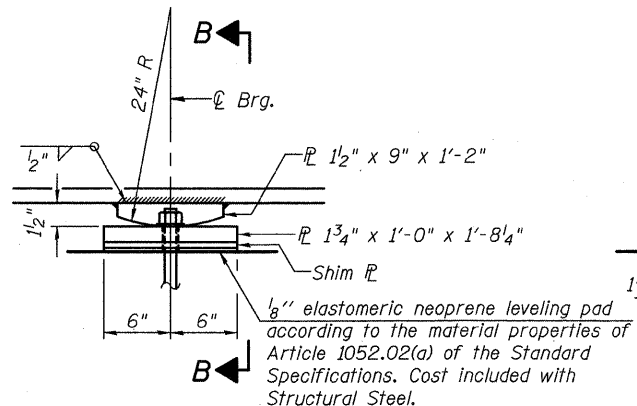


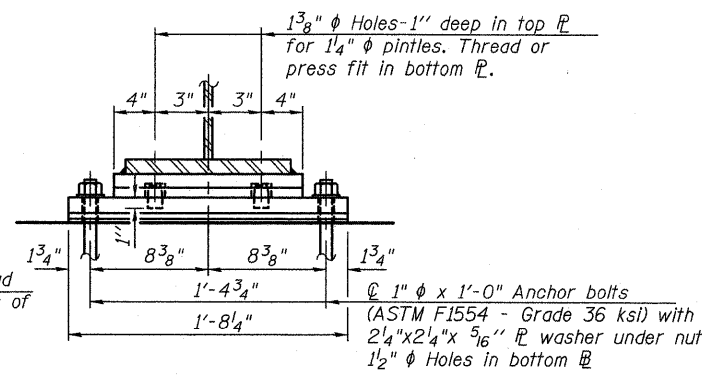
ELEVATION AT PIER 1



SECTION A-A

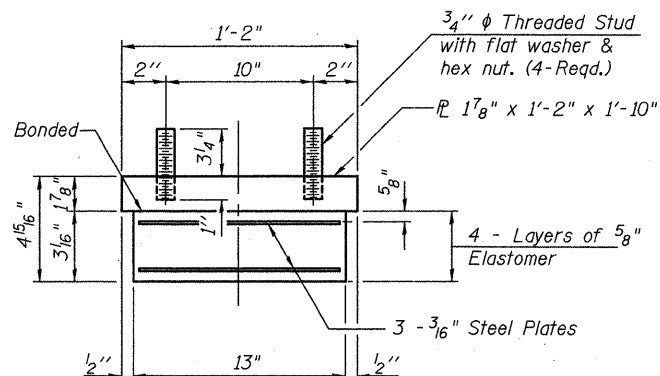


ELEVATION AT PIER 2



SECTION B-B

TYPE I ELASTOMERIC EXP. BRG.

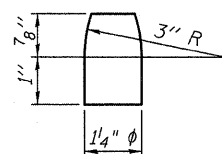


BEARING ASSEMBLY

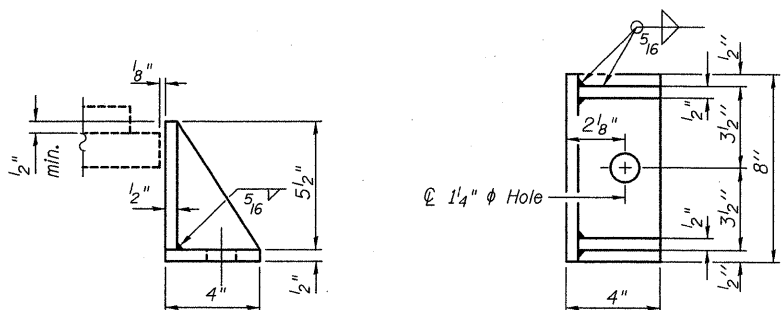
Note:
Shim plates shall not be placed under Bearing Assembly.

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
The structural steel plates of the Bearing Assembly shall conform to requirements of AASHTO M270 Grade 50.
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.
See sheets 25 and 27 of 33 for bearing orientations and anchor bolt layout dimensions.

FIXED BEARING



PINTLE



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	5
Anchor Bolts, 1"	Each	20

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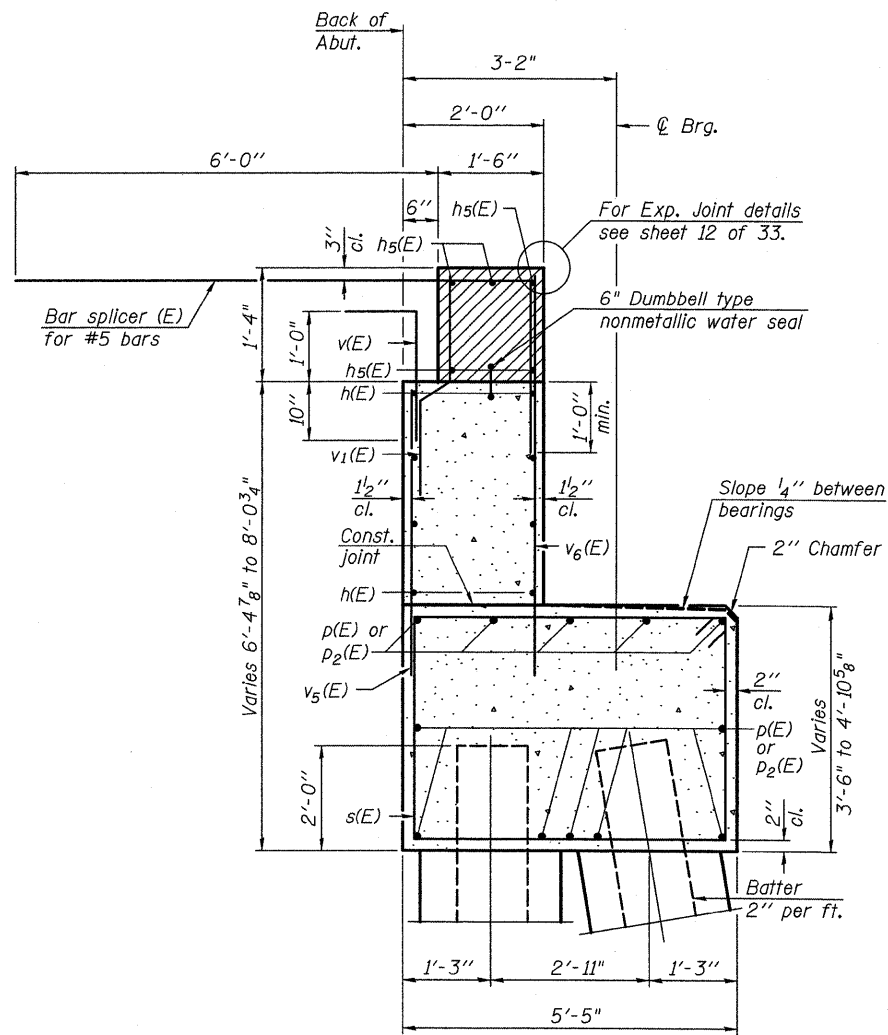
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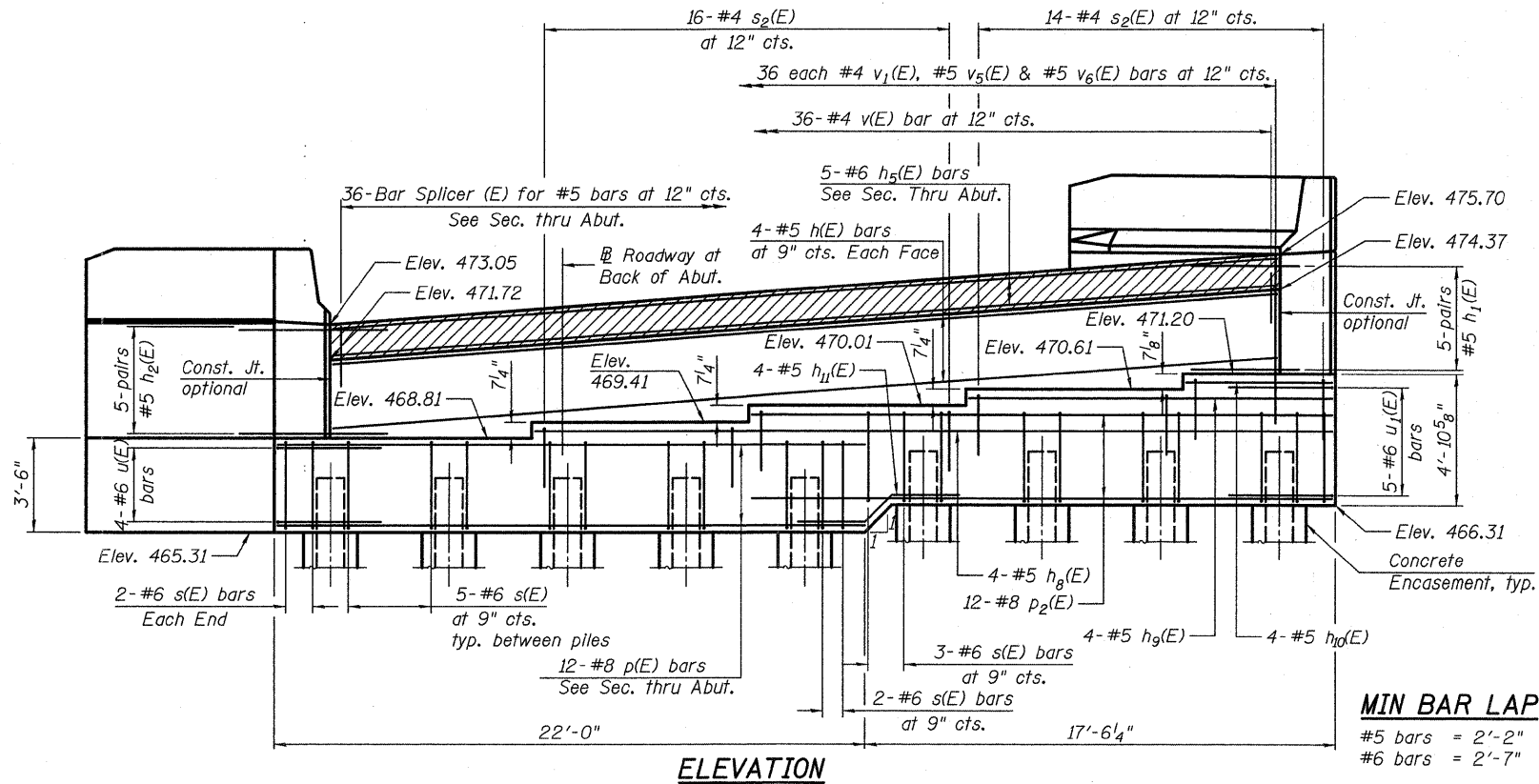
BEARING DETAILS - PIERS
STRUCTURE NO. 100-0098

SHEET NO. 18 OF 33 SHEETS

F.A.I. RTE. 57	SECTION (X1-6-2)HB-2	COUNTY WILLIAMSON	TOTAL SHEETS 968	SHEET NO. 701
				CONTRACT NO. 78182
ILLINOIS FED. AID PROJECT				

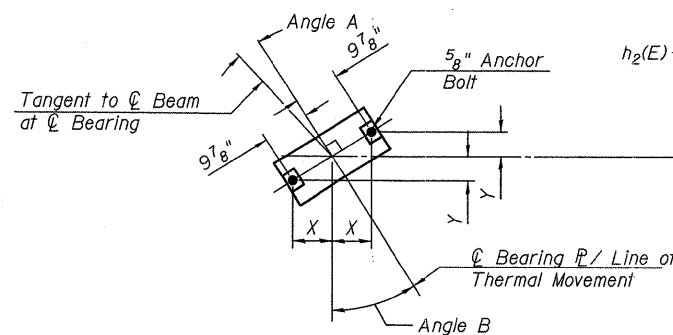


SEC. THRU ABUT.



ELEVATION

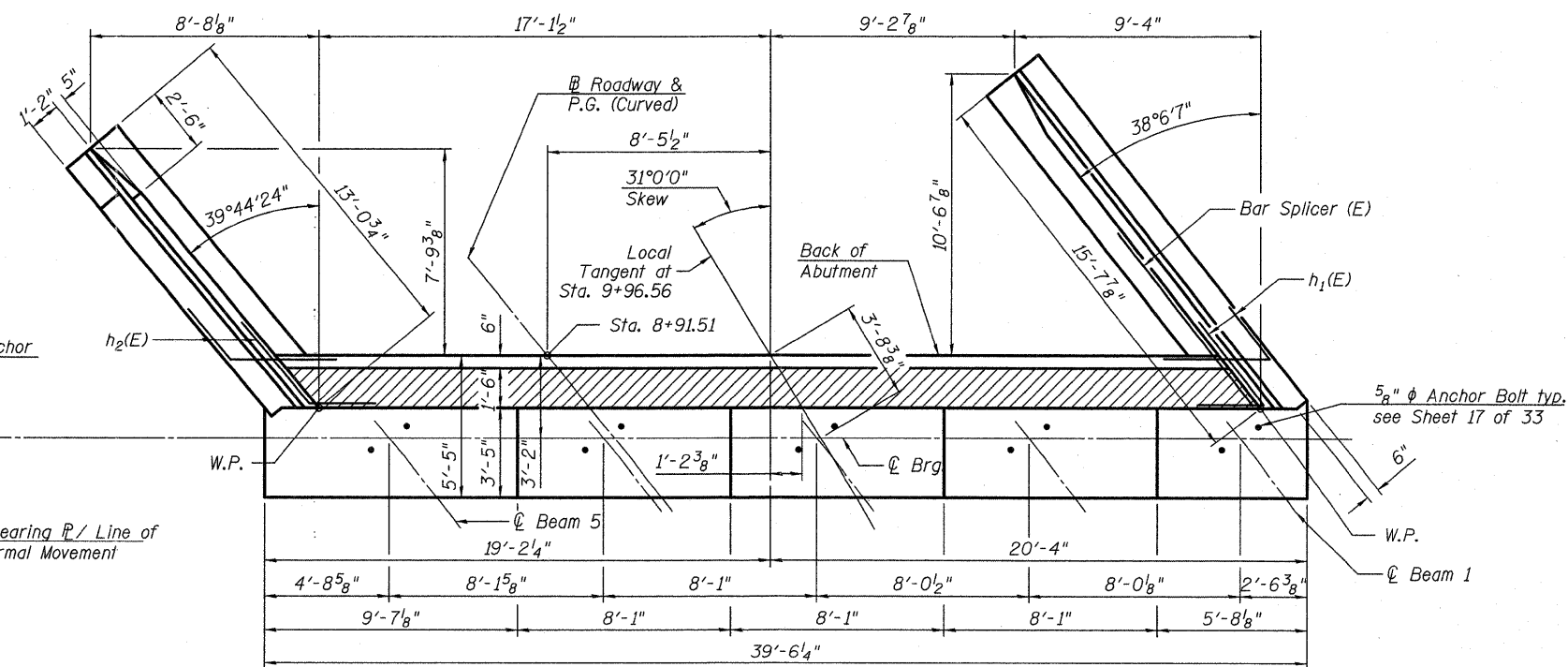
MIN BAR LAP
 #5 bars = 2'-2"
 #6 bars = 2'-7"



ANCHOR BOLT LAYOUT

ANCHOR BOLT LAYOUT DIMENSIONS

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5
Angle A	4°16'	4°19'	4°22'	4°25'	4°28'
Angle B	33°16'	33°34'	33°53'	34°12'	34°32'
X	8 1/4"	8 1/4"	8 1/4"	8 1/8"	8 1/8"
Y	5 3/8"	5 1/2"	5 1/2"	5 1/2"	5 3/8"



TOP VIEW

(Sheet 1 of 3)

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REVISOR -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
 STRUCTURE NO. 100-0098

SHEET NO. 19 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-6-2)HB-2	WILLIAMSON	968	702
			CONTRACT NO. 78182	

ILLINOIS FED. AID PROJECT

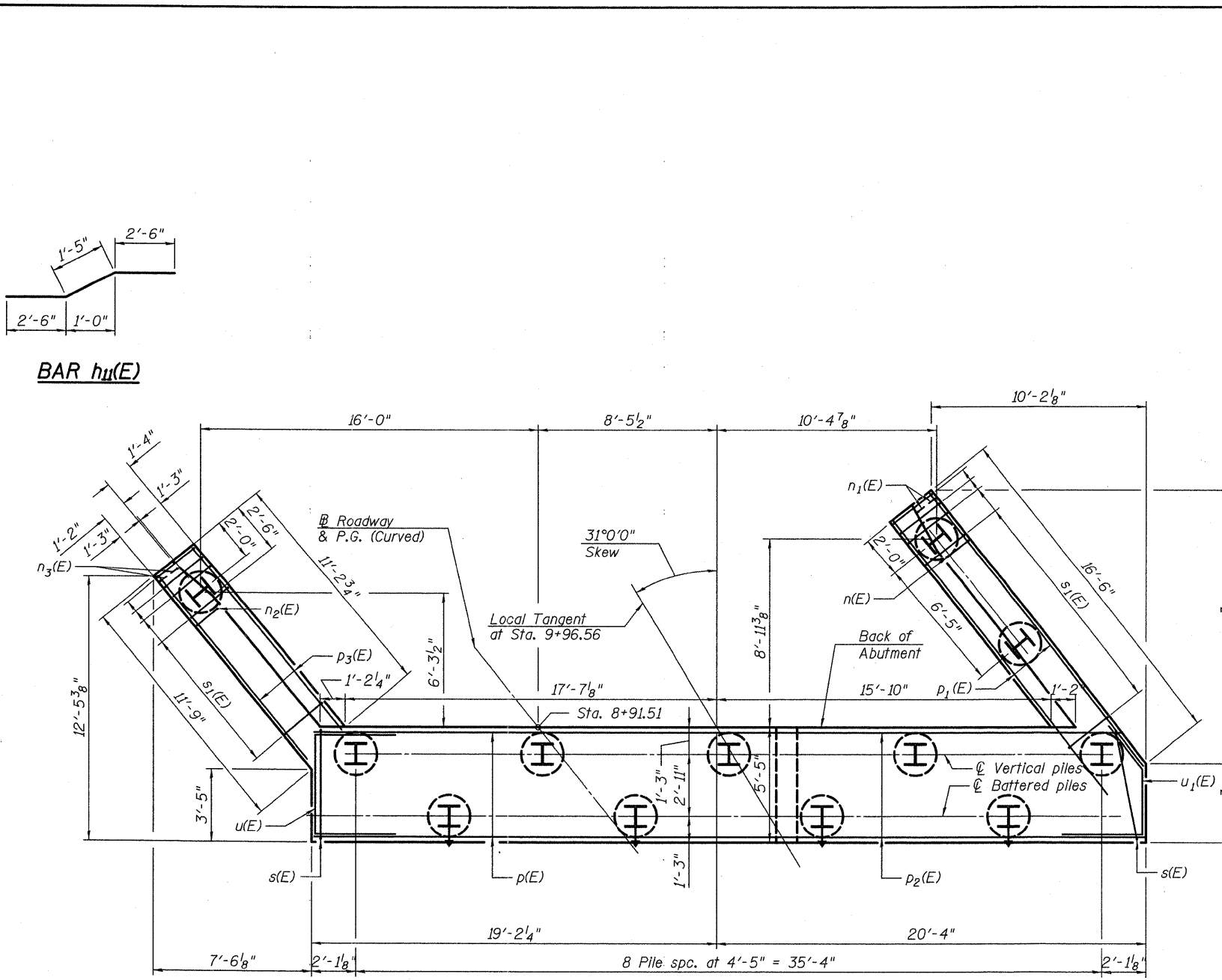
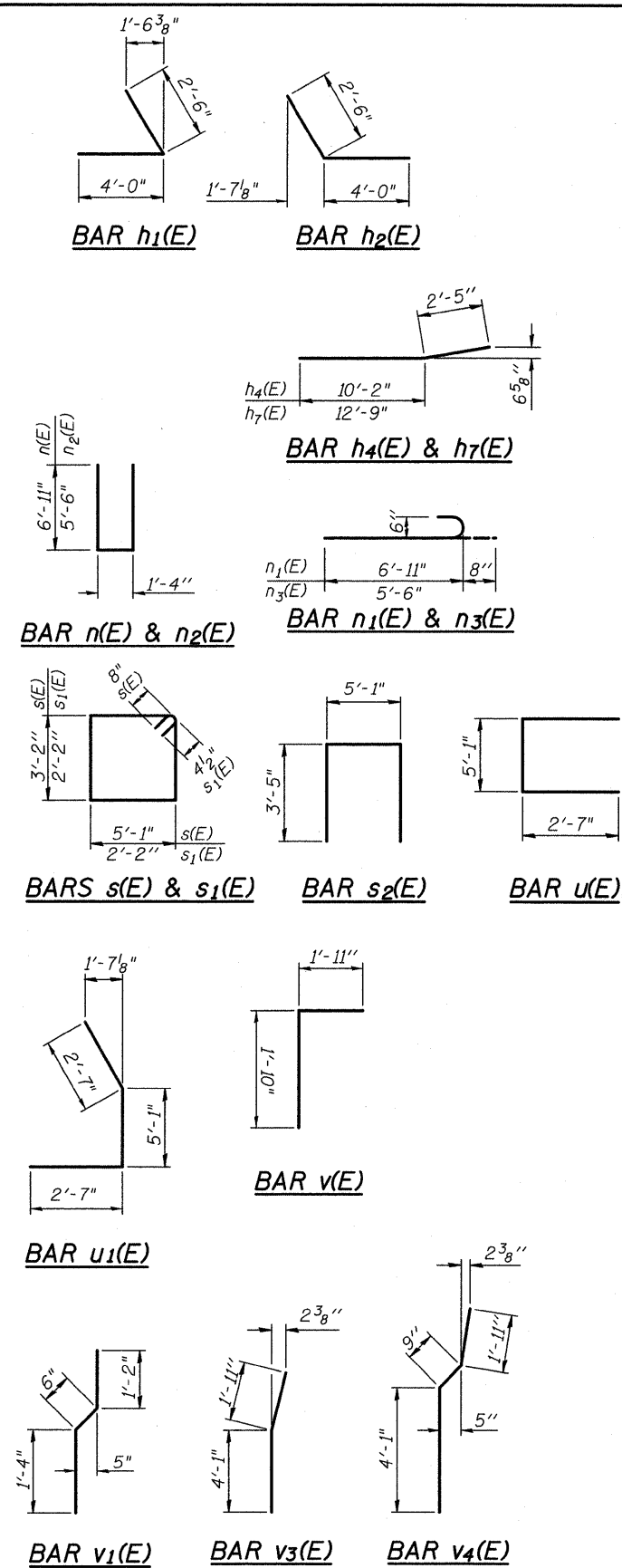
**WEST ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	8	#5	35'-5"	
h ₁ (E)	10	#5	6'-6"	
h ₂ (E)	10	#5	6'-6"	
h ₃ (E)	11	#4	11'-5"	
h ₄ (E)	7	#4	12'-7"	
h ₅ (E)	5	#6	35'-5"	
h ₆ (E)	11	#4	16'-2"	
h ₇ (E)	7	#4	15'-2"	
h ₈ (E)	4	#5	29'-7"	
h ₉ (E)	4	#5	13'-5"	
h ₁₀ (E)	4	#5	5'-4"	
h ₁₁ (E)	4	#5	6'-5"	
n(E)	12	#6	15'-2"	
n ₁ (E)	6	#6	7'-7"	
n ₂ (E)	8	#6	12'-4"	
n ₃ (E)	6	#6	6'-2"	
p(E)	12	#8	21'-8"	
p ₁ (E)	6	#7	16'-2"	
p ₂ (E)	12	#8	21'-6"	
p ₃ (E)	6	#7	11'-7"	
s(E)	44	#6	17'-10"	
s ₁ (E)	26	#4	9'-5"	
s ₂ (E)	30	#4	11'-7"	
u(E)	4	#6	10'-3"	
u ₁ (E)	5	#6	10'-3"	
v(E)	36	#4	3'-9"	
v ₁ (E)	36	#4	3'-0"	
v ₂ (E)	29	#6	6'-6"	
v ₃ (E)	6	#6	6'-0"	
v ₄ (E)	23	#6	6'-9"	
v ₅ (E)	36	#5	4'-11"	
v ₆ (E)	36	#5	6'-3"	
Structure Excavation		Cu. Yd.	108	
Concrete Structures		Cu. Yd.	57.9	
Reinforcement Bars, Epoxy Coated		Pound	6,400	
Furnishing Steel Piles HP12x53		Foot	396	
Driving Piles		Foot	396	
Pile Shoes		Each	12	
Test Pile Steel HP12x53		Each	1	
Concrete Encasement		Cu. Yd.	4.2	
Concrete Sealer		Sq. Ft.	308	

For details of Bar Splicers, see sheet 30 of 33.
For details of piles and Concrete Encasement, see sheet 29 of 33.

PILE DATA

Type: HP12x53 with Pile Shoes
Nominal Required Bearing: 418 kip
Factored Resistance Available: 230 kip
Est. Length: 36'
No. Production Piles: 11
No. Test Piles: 1



PLAN-PILE CAP

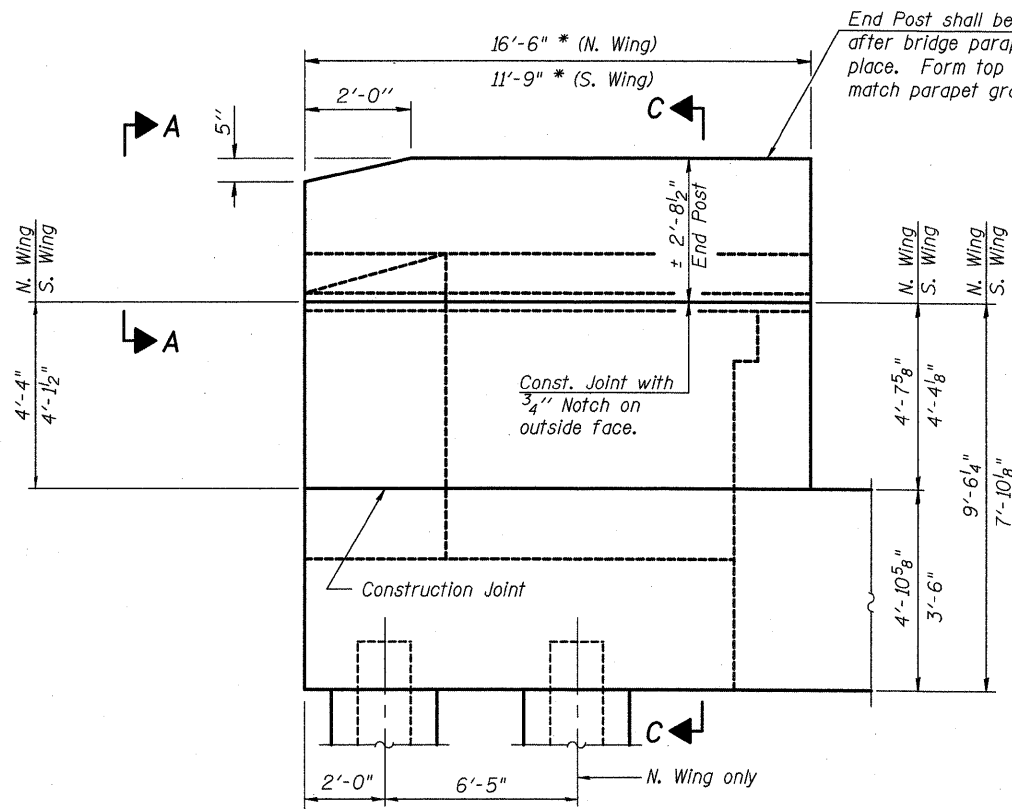
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331 Salem Place, Suite 225
Fairview Heights, IL 62208
Phone 618-206-4250

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

(Sheet 2 of 3)
**WEST ABUTMENT
STRUCTURE NO. 100-0098**
SHEET NO. 20 OF 33 SHEETS

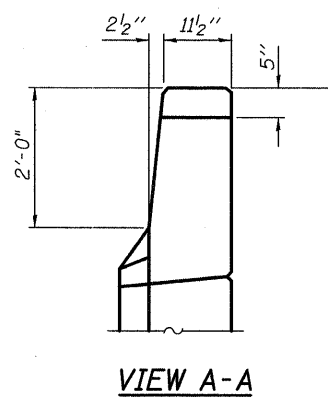
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				CONTRACT NO. 78182
ILLINOIS FED. AID PROJECT				



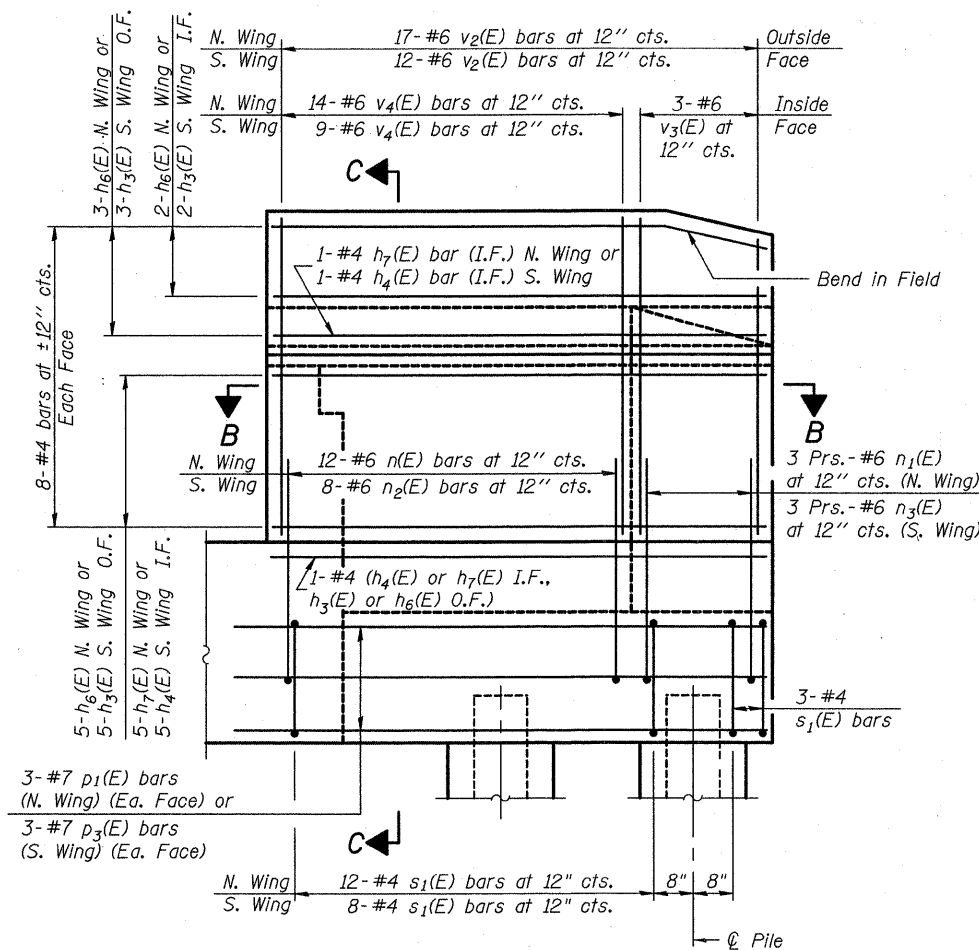
WING WALL ELEVATION
Showing Dimensions

* Measured along outside face of parapet

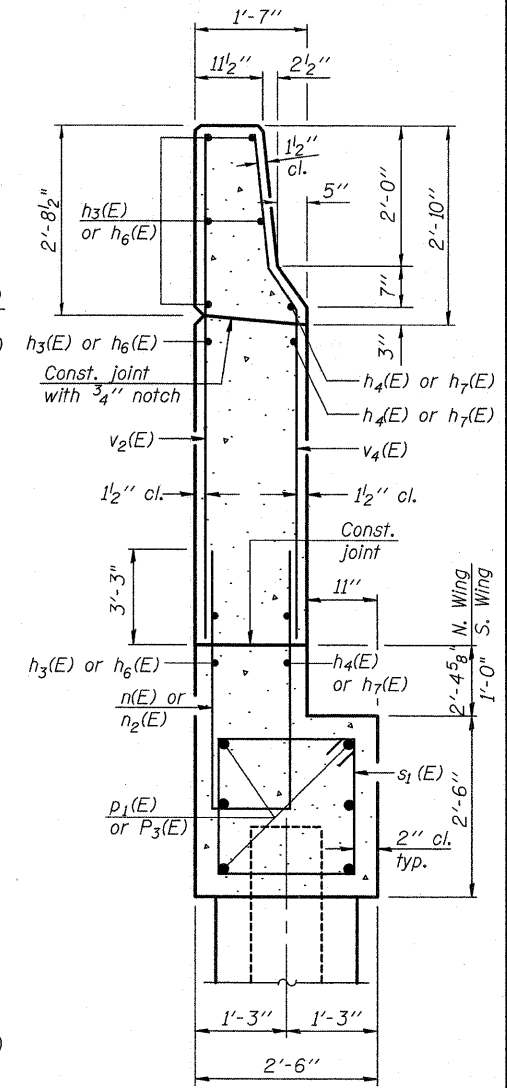
End Post shall be poured after bridge parapet is in place. Form top surface to match parapet grade.



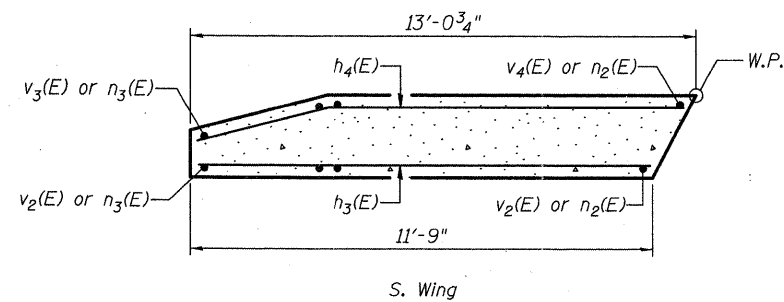
VIEW A-A



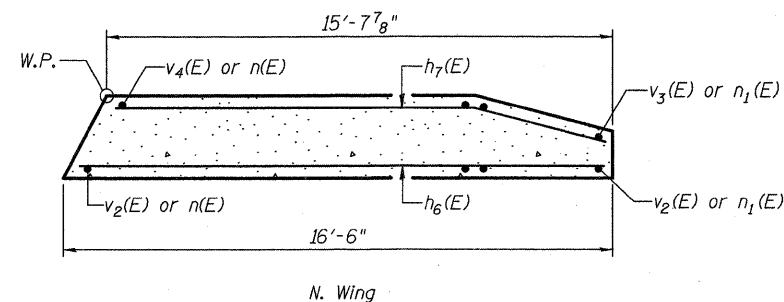
WING WALL ELEVATION
Showing Reinforcement



SECTION C-C



S. Wing



N. Wing

SECTION B-B

Notes:
Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
Quantity of concrete in end post included with Concrete Superstructure on sheet 9 of 33.
For Concrete Encasement details, see sheet 29 of 33.
The abutments shall have all exposed surfaces of backwalls, bridge seats and front faces of pile caps treated with Concrete Sealer.

(Sheet 3 of 3)

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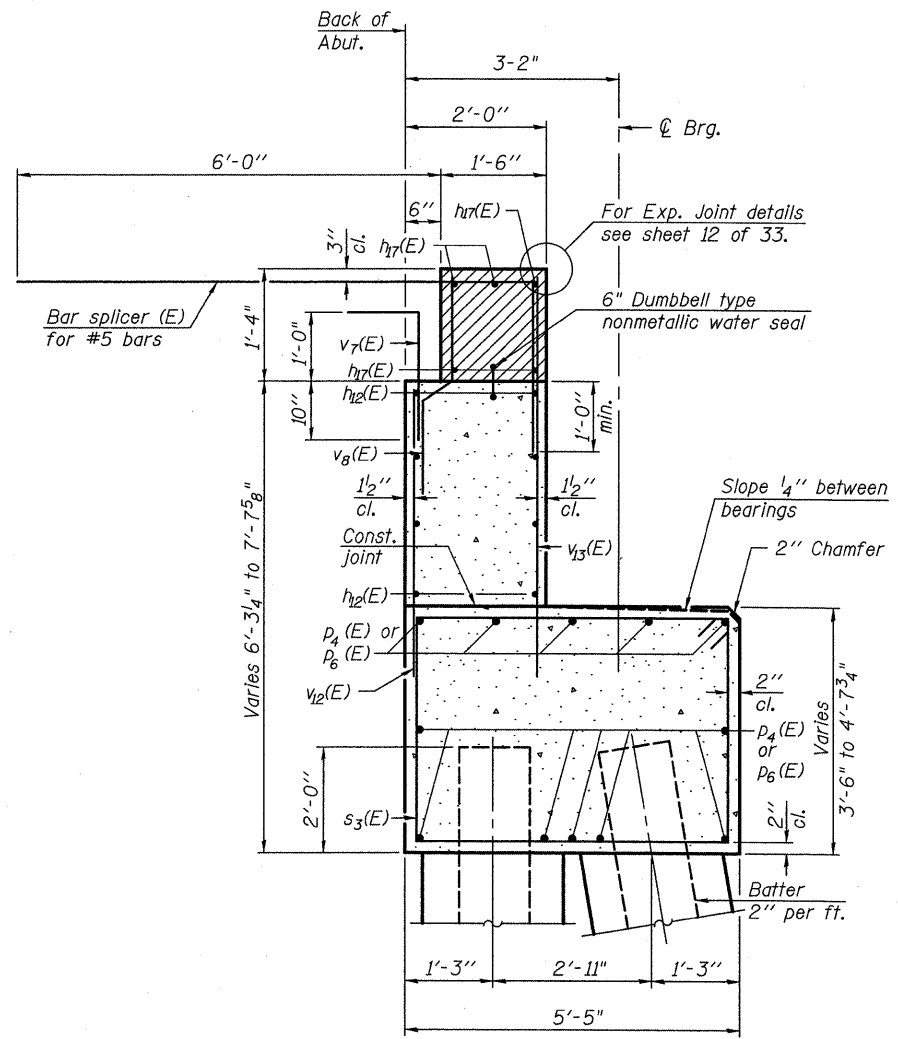
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 100-0098

SHEET NO. 21 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 78182	
ILLINOIS FED. AID PROJECT				

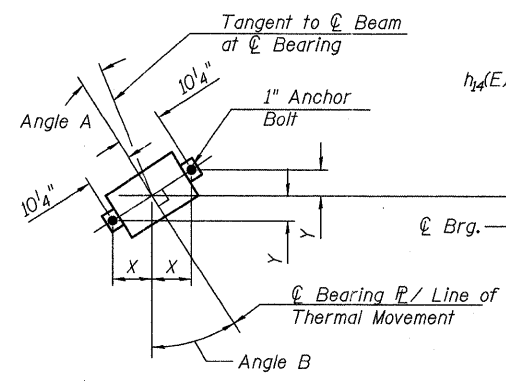
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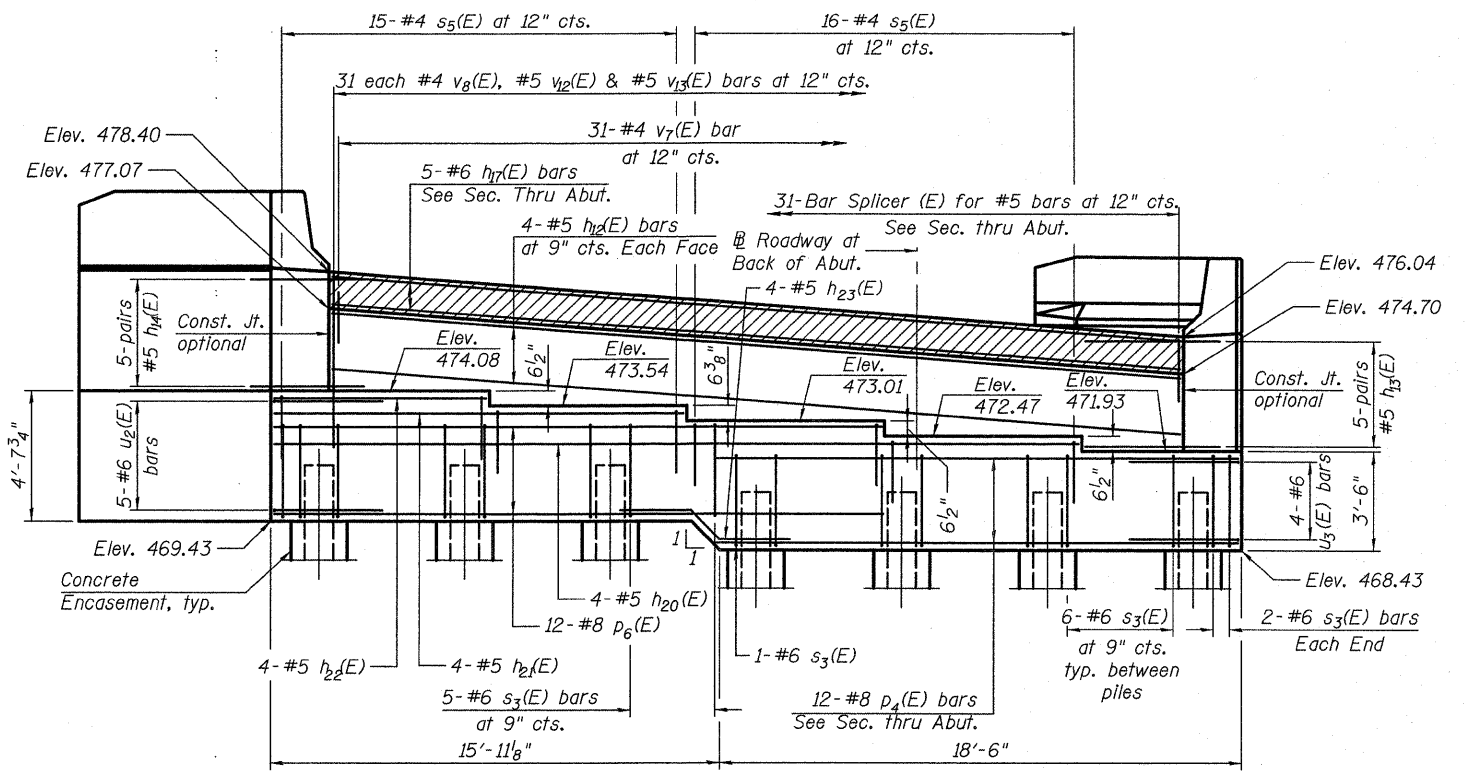
SEC. THRU ABUT.

ANCHOR BOLT LAYOUT DIMENSIONS

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5
Angle A	1°56'	1°57'	1°58'	1°59'	2°1'
Angle B	27°4'	27°18'	27°33'	27°48'	28°3'
X	9 7/8"	9 7/8"	9 7/8"	9 7/8"	9"
Y	4 3/8"	4 3/4"	4 3/4"	4 3/4"	4 1/8"



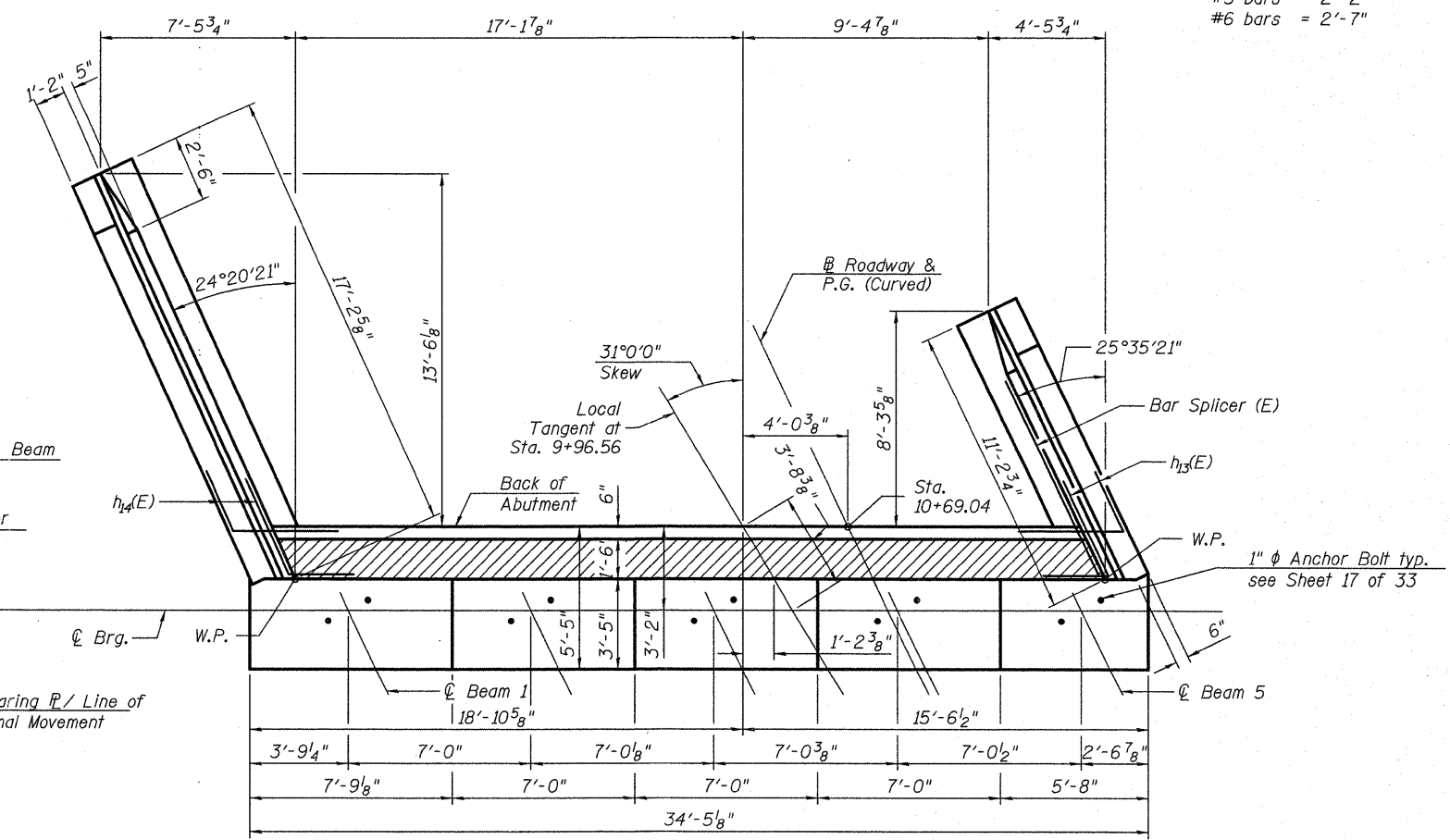
ANCHOR BOLT LAYOUT



ELEVATION

MIN BAR LAP

#5 bars = 2'-2"
 #6 bars = 2'-7"



TOP VIEW

(Sheet 1 of 3)

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STATE OF ILLINOIS
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EAST ABUTMENT
 STRUCTURE NO. 100-0098
 SHEET NO. 22 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-6-2)HB-2	WILLIAMSON	968	705
CONTRACT NO. 78182				
ILLINOIS FED. AID PROJECT				

**EAST ABUTMENT
BILL OF MATERIAL**

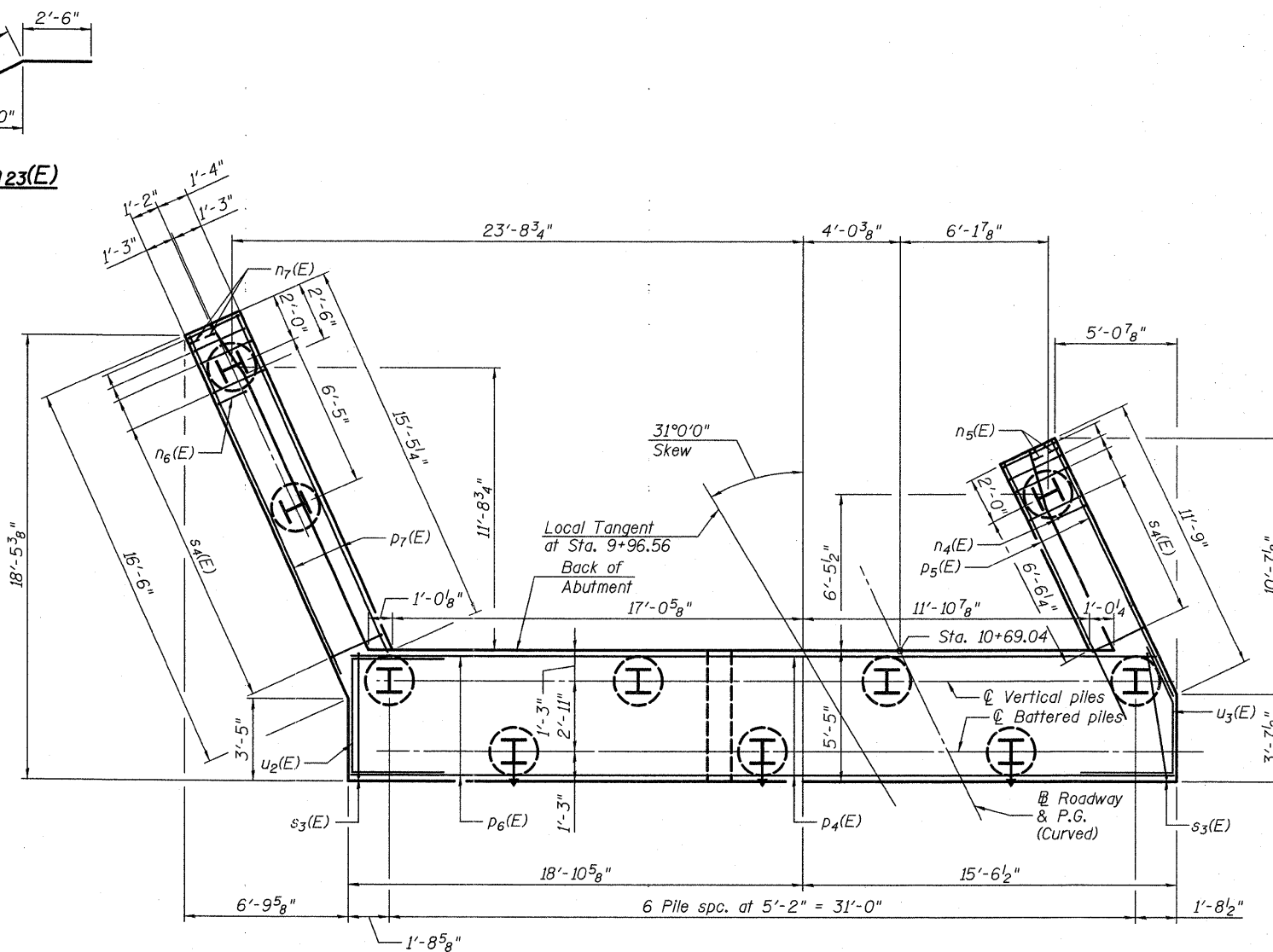
Bar	No.	Size	Length	Shape
h13(E)	8	#5	30'-7"	—
h14(E)	10	#5	6'-6"	—
h15(E)	10	#5	6'-6"	—
h16(E)	11	#4	11'-5"	—
h17(E)	7	#4	10'-10"	—
h18(E)	5	#6	30'-7"	—
h19(E)	11	#4	16'-2"	—
h20(E)	7	#4	16'-7"	—
h21(E)	4	#5	28'-5"	—
h22(E)	4	#5	14'-5"	—
h23(E)	4	#5	7'-5"	—
h23(E)	4	#5	6'-5"	—
n4(E)	12	#6	14'-8"	—
n5(E)	6	#6	7'-4"	—
n6(E)	8	#6	12'-4"	—
n7(E)	6	#6	6'-2"	—
p4(E)	12	#8	18'-4"	—
p5(E)	6	#7	11'-7"	—
p6(E)	12	#8	21'-5"	—
p7(E)	6	#7	16'-4"	—
s3(E)	40	#6	17'-10"	—
s4(E)	26	#4	9'-5"	—
s5(E)	31	#4	11'-7"	—
u2(E)	5	#6	10'-3"	—
u3(E)	4	#6	10'-3"	—
v7(E)	31	#4	3'-9"	—
v8(E)	31	#4	3'-0"	—
v9(E)	29	#6	6'-7"	—
v10(E)	6	#6	6'-1"	—
v11(E)	23	#6	6'-10"	—
v12(E)	31	#5	4'-9"	—
v13(E)	31	#5	6'-1"	—
Structure Excavation		Cu. Yd.	96	
Concrete Structures		Cu. Yd.	50.7	
Reinforcement Bars, Epoxy Coated		Pound	6,030	
Furnishing Steel Piles HP12x53		Foot	342	
Driving Piles		Foot	342	
Pile Shoes		Each	10	
Test Pile Steel HP12x53		Each	1	
Concrete Encasement		Cu. Yd.	3.5	
Concrete Sealer		Sq. Ft.	263	

For details of Bar Splicers, see sheet 30 of 33.
For details of piles and Concrete Encasement, see sheet 29 of 33.

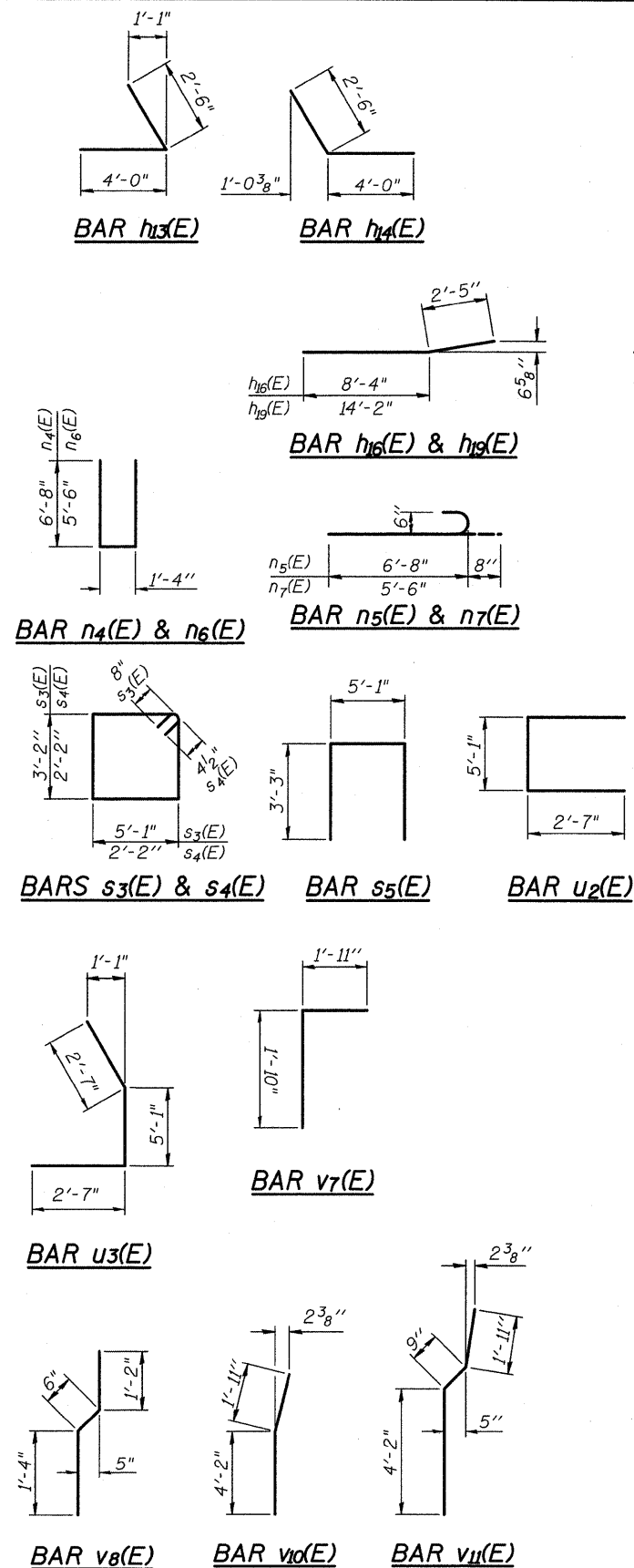
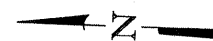
PILE DATA

Type: HP12x53 with Pile Shoes
Nominal Required Bearing: 418 kip
Factored Resistance Available: 230 kip
Est. Length: 38'
No. Production Piles: 9
No. Test Piles: 1

(Sheet 2 of 3)



PLAN-PILE CAP



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STATE OF ILLINOIS	EAST ABUTMENT
DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 100-0098
	SHEET NO. 23 OF 33 SHEETS

F.A.I. RTE. 57	SECTION (X1-6-2)HB-2	COUNTY WILLIAMSON	TOTAL SHEETS 968	SHEET NO. 706
CONTRACT NO. 78182				
ILLINOIS FED. AID PROJECT				

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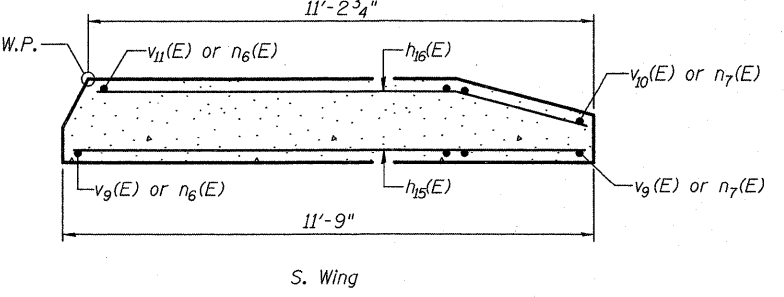
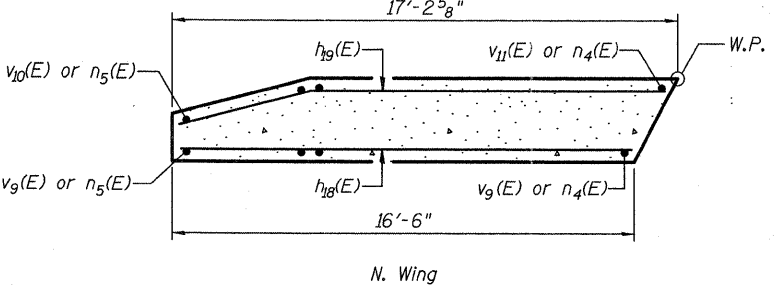
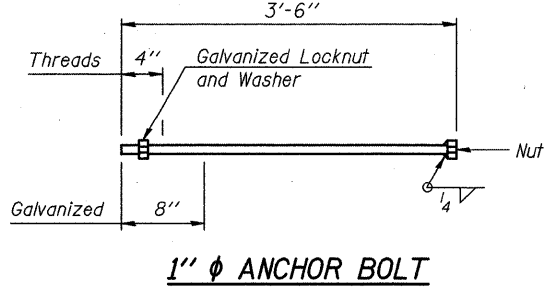
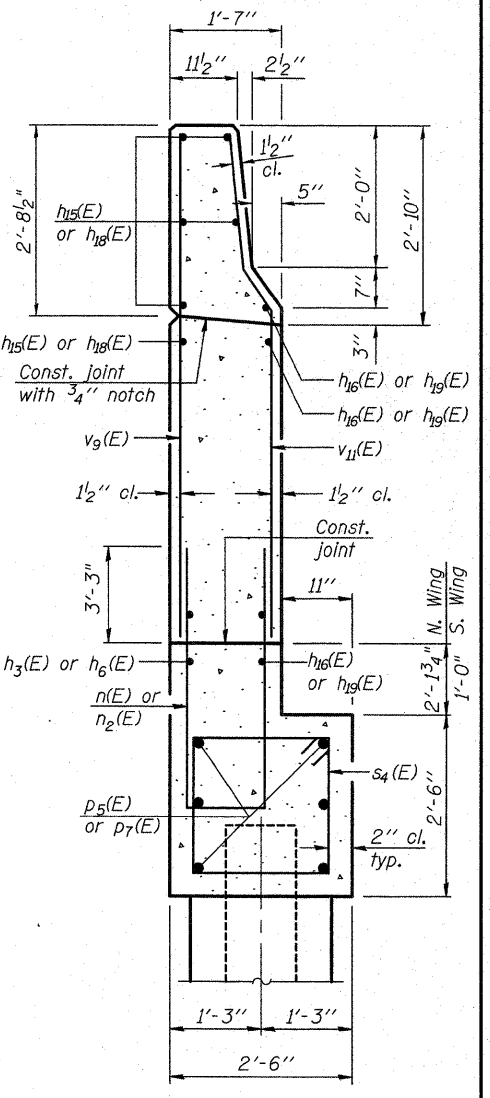
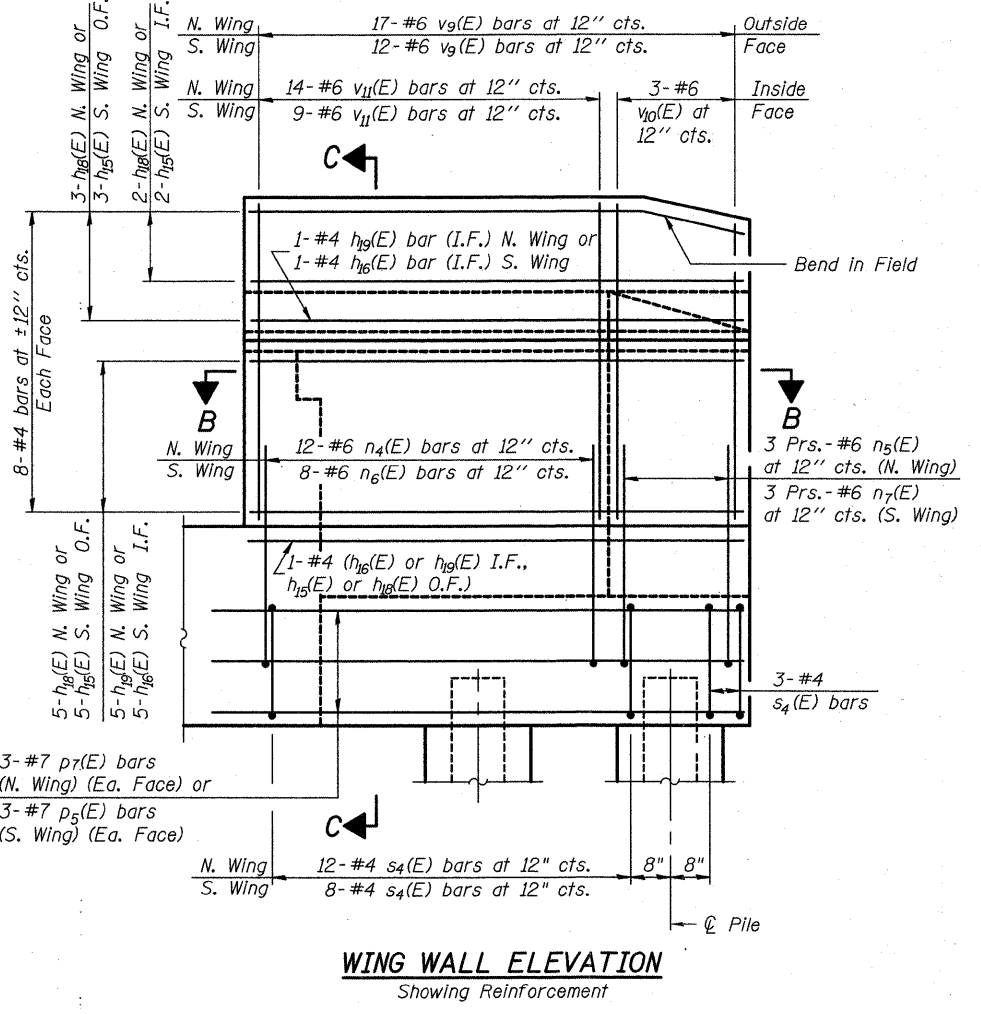
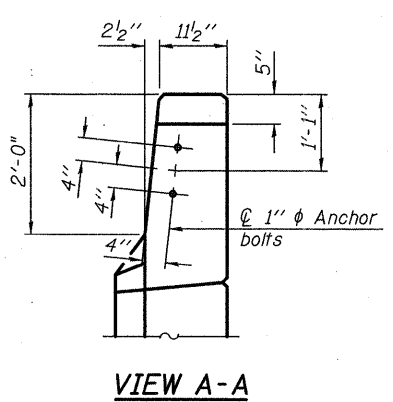
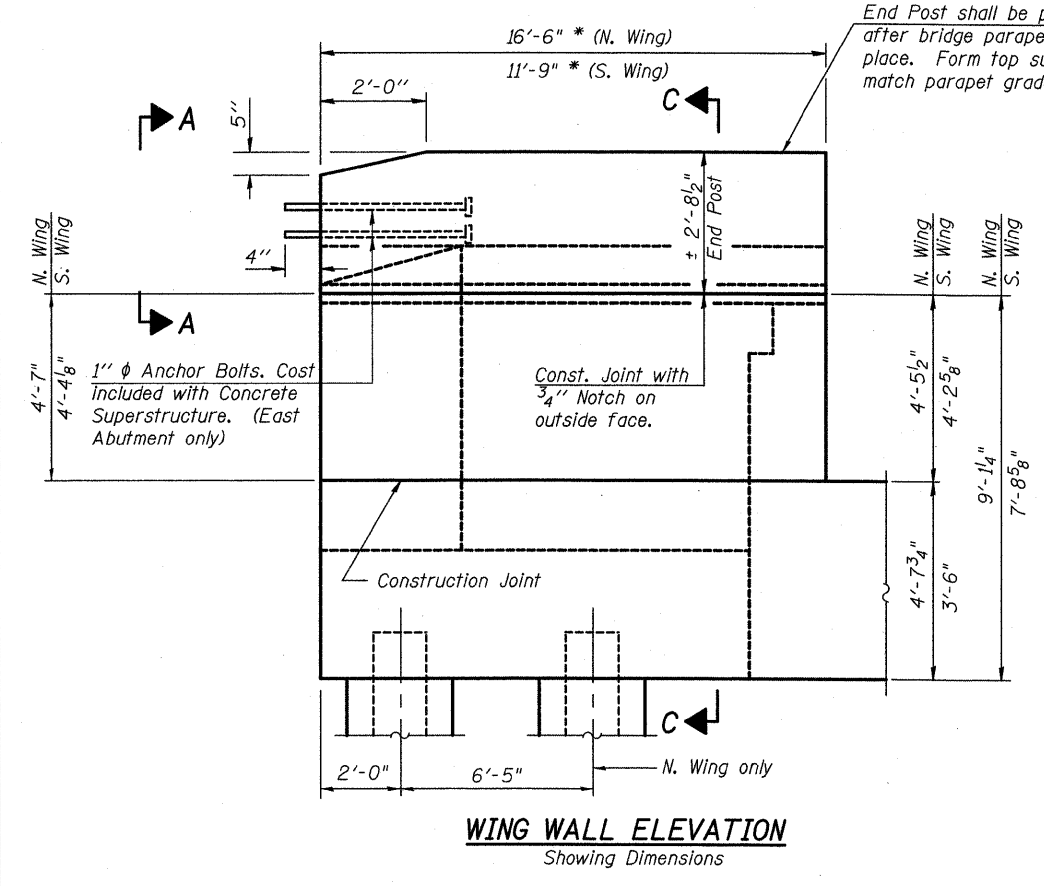
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STATE OF ILLINOIS
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EAST ABUTMENT
STRUCTURE NO. 100-0098
 SHEET NO. 24 OF 33 SHEETS

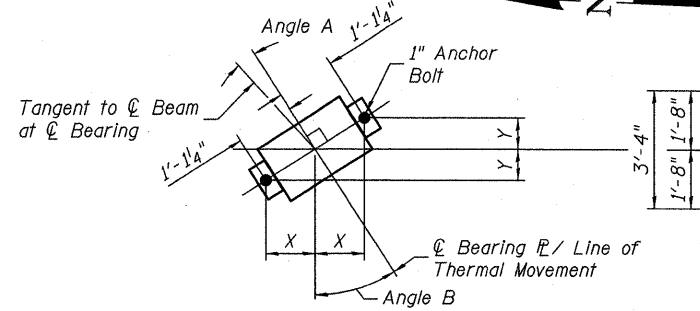
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57	(X1)-6-21HB-2	WILLIAMSON	968	707
CONTRACT NO. 78182				
ILLINOIS FED. AID PROJECT				



Notes:
 Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 Quantity of concrete in end post included with Concrete Superstructure on sheet 9 of 33.
 For Concrete Encasement details, see sheet 29 of 33.
 The abutments shall have all exposed surfaces of backwalls, bridge seats and front faces of pile caps treated with Concrete Sealer.

(Sheet 3 of 3)

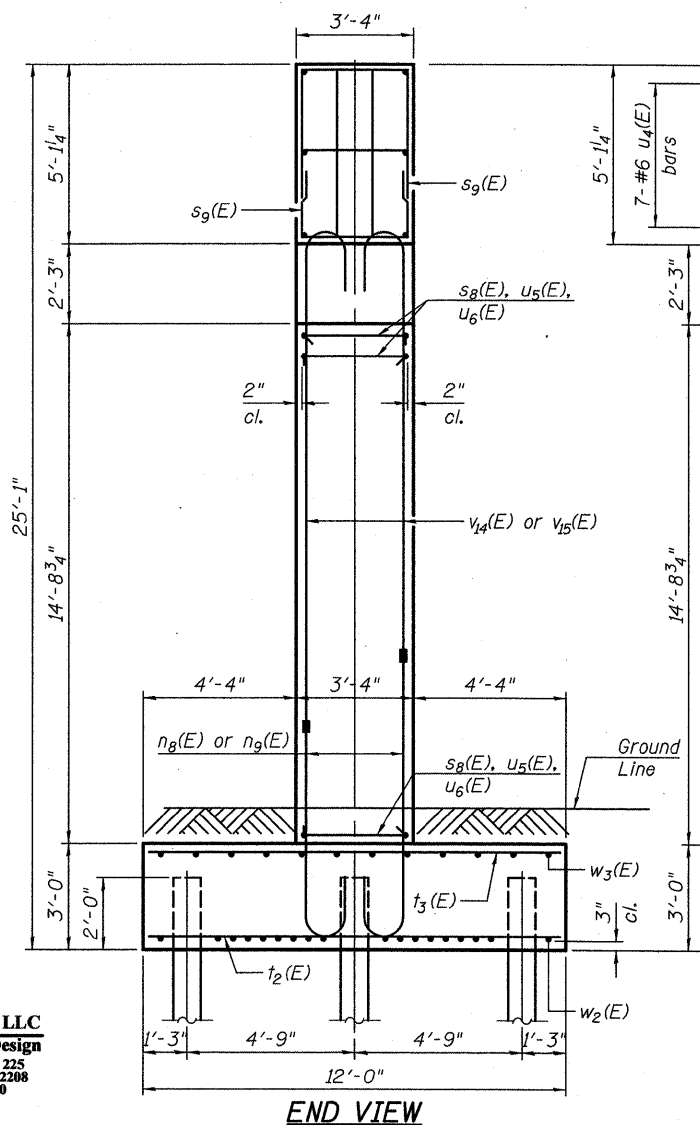
Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 29 of 33.
 Each set of $s_9(E)$, $s_{10}(E)$ and $s_{11}(E)$ bars has 4 bars (2 top and 2 bottom). See Section A-A.
 For details of Mechanical Splice, see sheet 30 of 33.
 The piers shall have all exposed surfaces treated with Concrete Sealer.



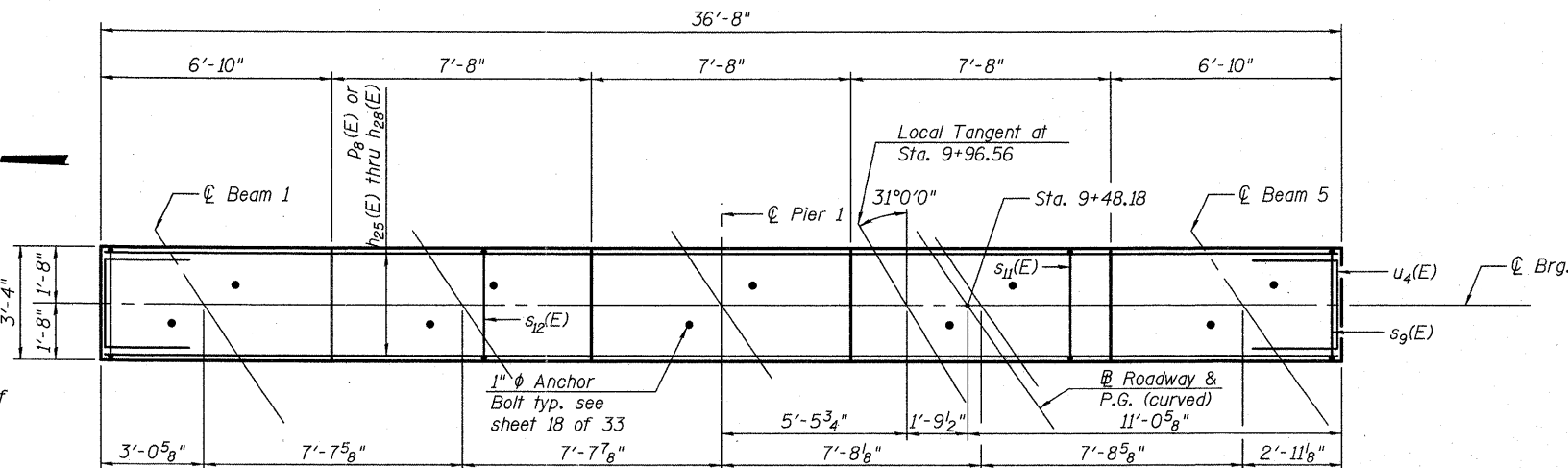
ANCHOR BOLT LAYOUT

ANCHOR BOLT LAYOUT DIMENSIONS

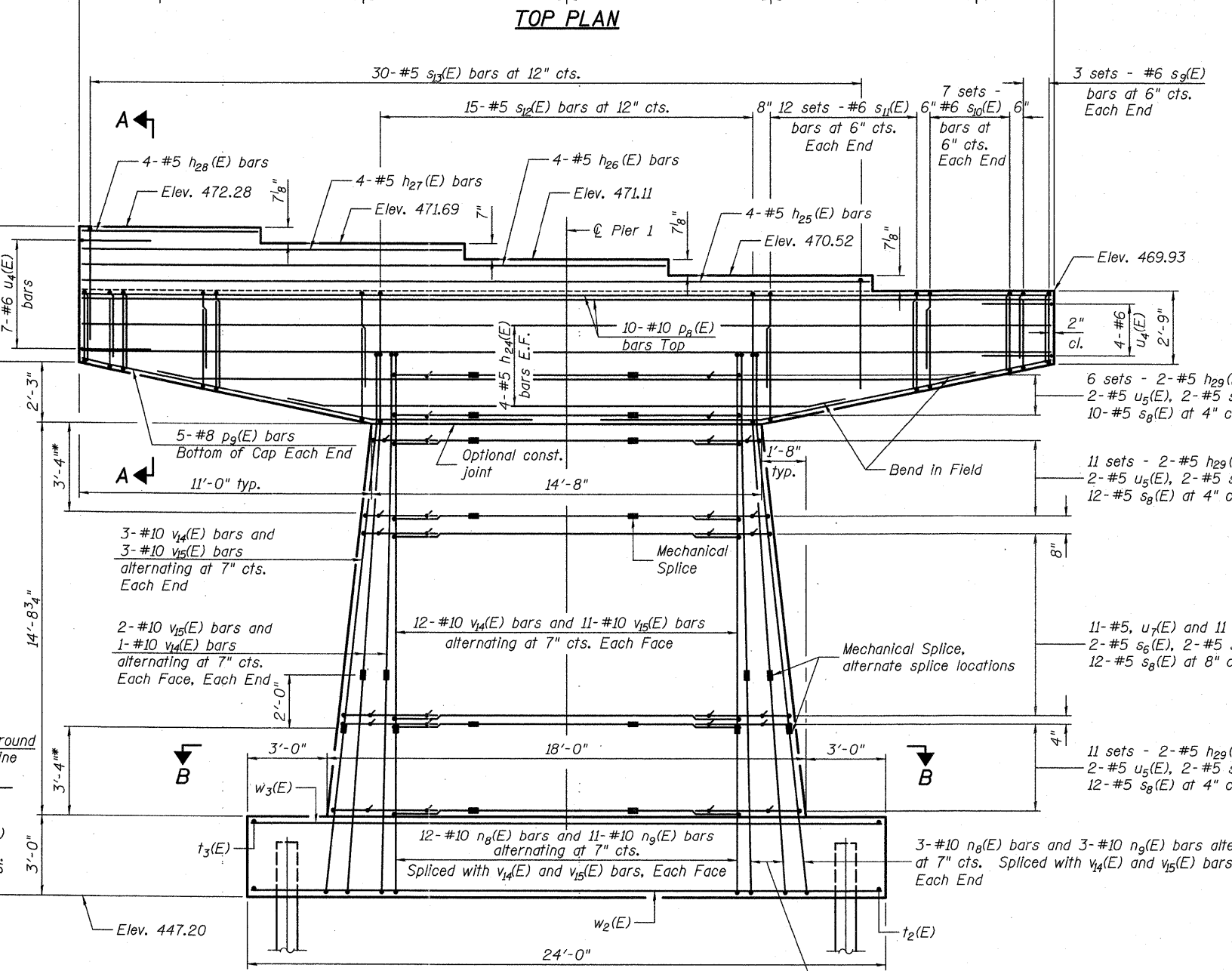
	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5
Angle A	2°21'	2°23'	2°24'	2°26'	2°28'
Angle B	31°21'	31°39'	31°55'	32°13'	32°32'
X	11 ³ / ₈ "	11 ¹ / ₄ "	11 ¹ / ₄ "	11 ¹ / ₄ "	11 ¹ / ₈ "
Y	6 ¹ / ₈ "	7"	7"	7 ¹ / ₈ "	7 ¹ / ₈ "



END VIEW

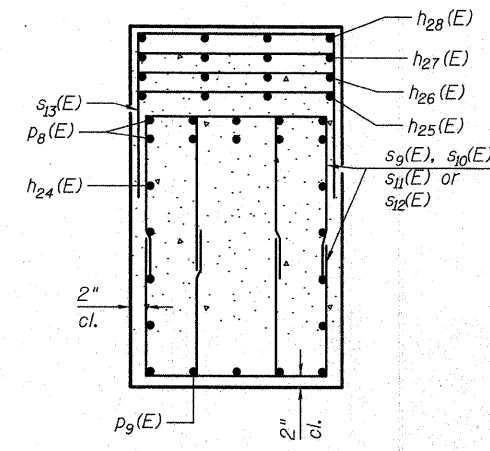


TOP PLAN



ELEVATION
(Looking East)

* Limits of plastic hinging region. No lap splices allowed.



SECTION A-A

MIN BAR LAP

#6 bars = 2'-3"

PILE DATA

Type: HP 12x53 with Pile Shoes
 Nominal Required Bearing: 411 kip
 Factored Resistance Available: 226 kip
 Est. Length: 19'
 No. Production Piles: 12
 No. Test Piles: 1

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 Phone 618-266-4250

FILE NAME = 1000098-78182-025-Pier-1 0 of 21.dgn
 USER NAME = jo
 DESIGNED - CTW
 CHECKED - CDL
 PLOT SCALE = 0:1.0000 '1" / IN.
 DRAWN - DP
 PLOT DATE = 9/7/2011
 DATE - 9/7/2011

REVISIONS:
 REVISION -
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 REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

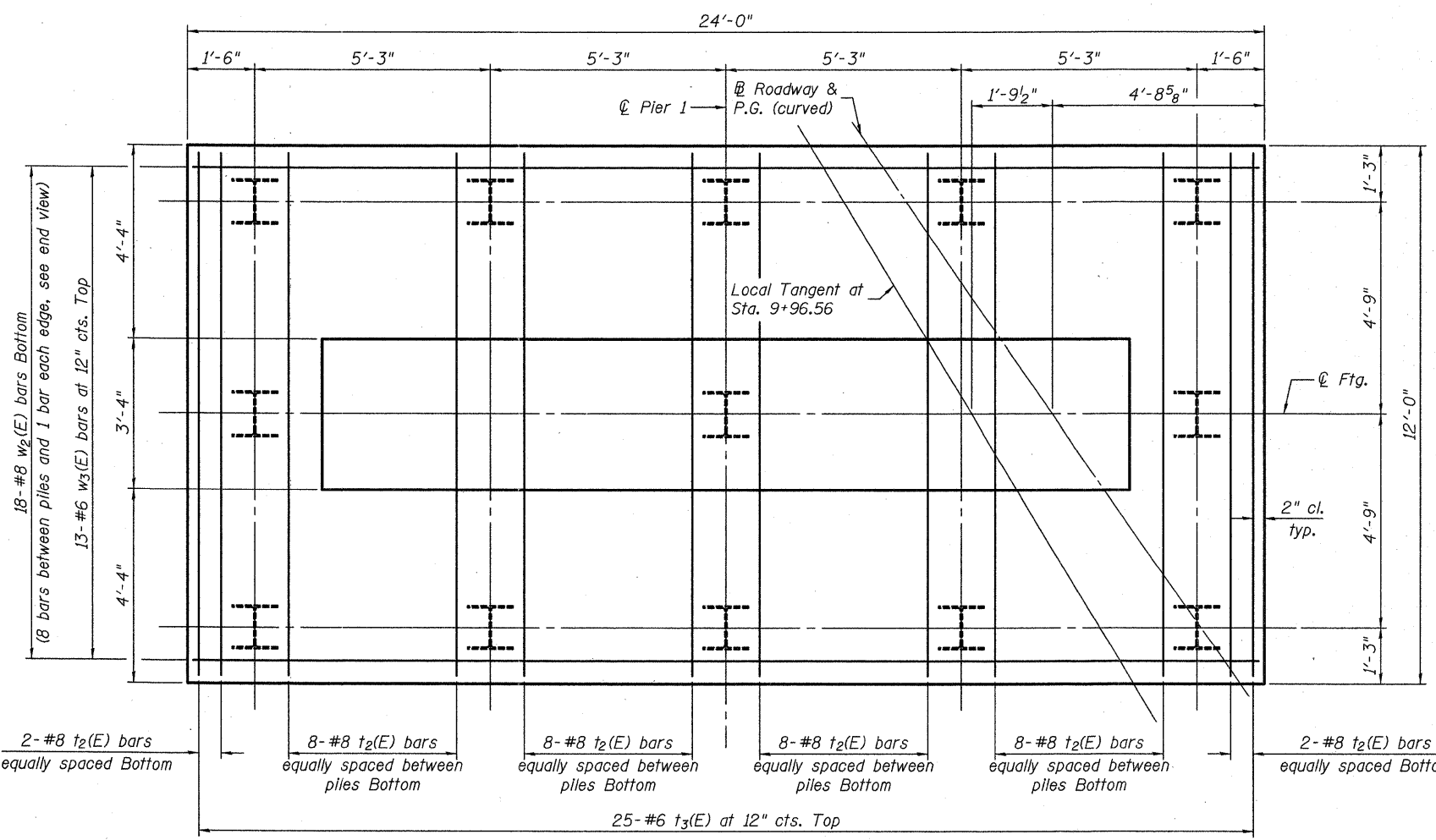
PIER 1
STRUCTURE NO. 100-0098

SHEET NO. 25 OF 33 SHEETS

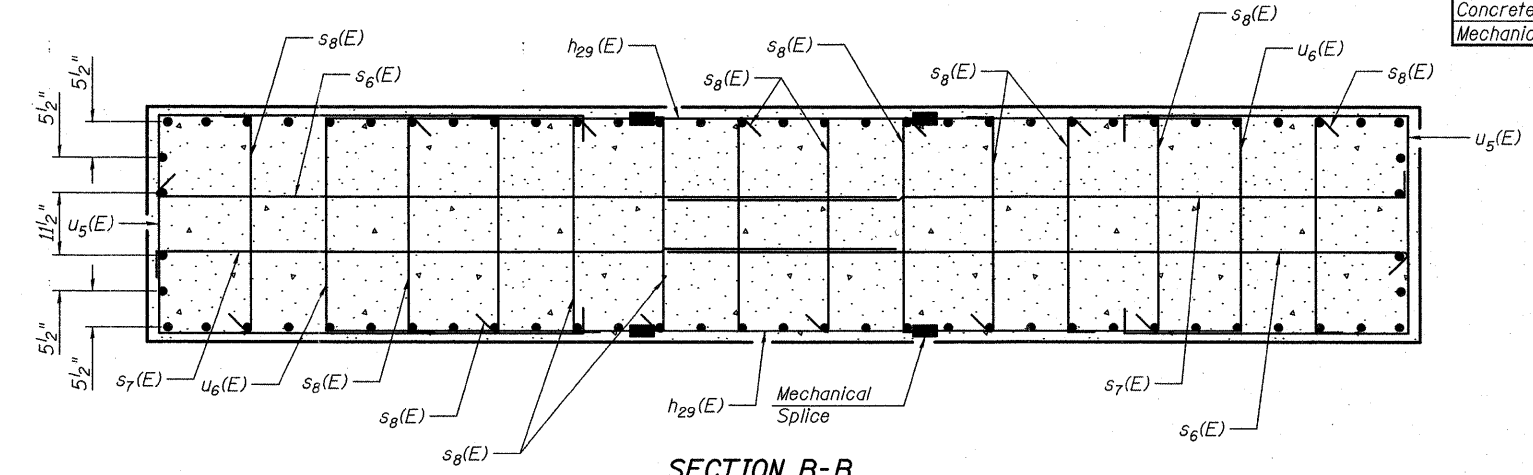
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-6-2)HB-2	WILLIAMSON	968	708
				CONTRACT NO. 78182
ILLINOIS FED. AID PROJECT				

**PIER 1
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h ₂₄ (E)	8	#5	36'-4"	
h ₂₅ (E)	4	#5	29'-6"	
h ₂₆ (E)	4	#5	21'-10"	
h ₂₇ (E)	4	#5	14'-2"	
h ₂₈ (E)	4	#5	6'-6"	
h ₂₉ (E)	56	#5	4'-0"	
n ₈ (E)	34	#10	7'-6"	
n ₉ (E)	36	#10	9'-6"	
p ₈ (E)	10	#10	36'-4"	
p ₉ (E)	10	#8	15'-1"	
s ₆ (E)	78	#5	11'-1"	
s ₇ (E)	78	#5	11'-2"	
s ₈ (E)	456	#5	3'-11"	
s ₉ (E)	24	#6	6'-10"	
s ₁₀ (E)	56	#6	7'-6"	
s ₁₁ (E)	96	#6	8'-11"	
s ₁₂ (E)	15	#5	16'-3"	
s ₁₃ (E)	30	#5	11'-10"	
t ₂ (E)	36	#8	11'-8"	
t ₃ (E)	25	#6	11'-8"	
u ₄ (E)	11	#6	8'-2"	
u ₅ (E)	78	#5	16'-0"	
u ₆ (E)	56	#5	12'-0"	
u ₇ (E)	11	#5	33'-0"	
v ₄ (E)	34	#10	15'-6"	
v ₅ (E)	36	#10	13'-6"	
w ₂ (E)	18	#8	23'-8"	
w ₃ (E)	13	#6	23'-8"	
Structure Excavation	Cu. Yd.		67	
Concrete Structures	Cu. Yd.		86.6	
Reinforcement Bars, Epoxy Coated	Pound		21,870	
Furnishing Steel Piles HP12x53	Foot		228	
Driving Piles	Foot		228	
Pile Shoes	Each		13	
Test Pile Steel HP12x53	Each		1	
Concrete Sealer	Sq. Ft.		1136	
Mechanical Splicers	Each		182	



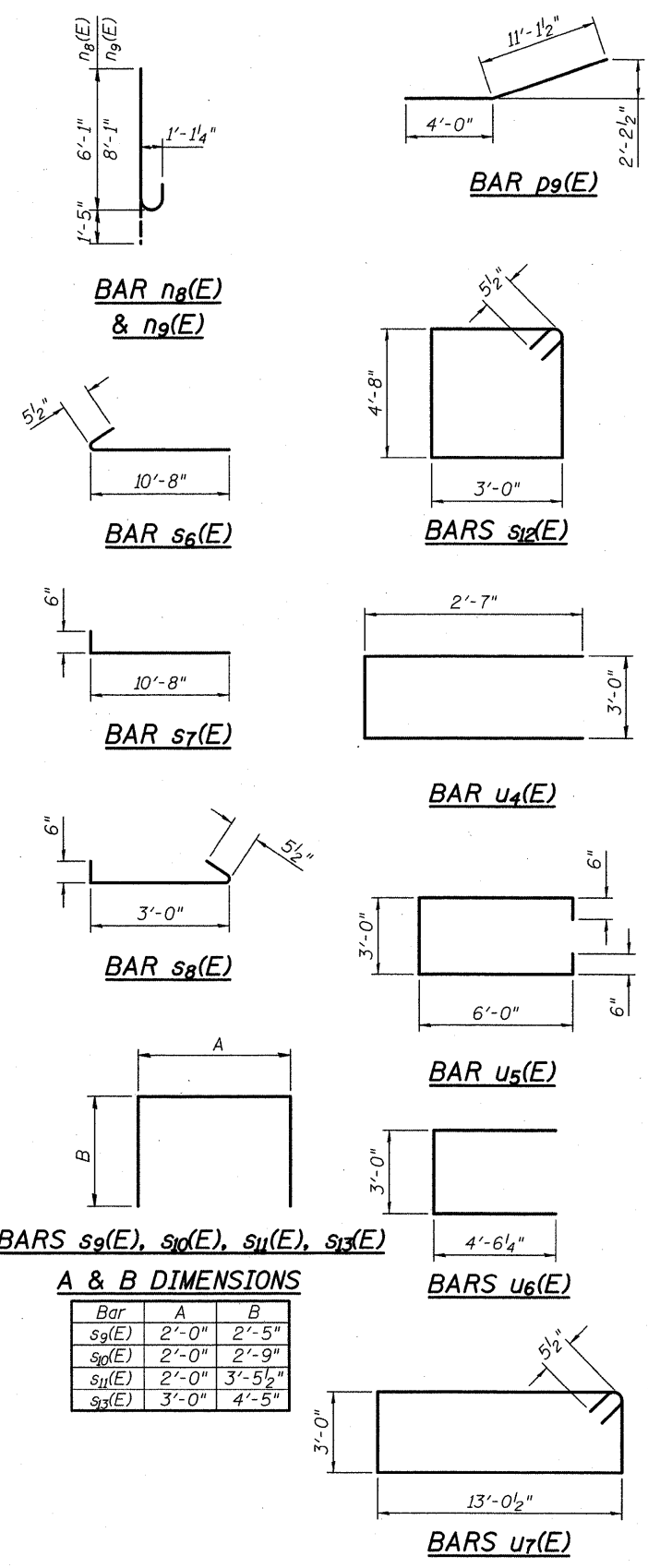
FOOTING PLAN



SECTION B-B

Note:
Alternate orientation of s₈(E) bars as shown in End View on sheet 25 of 33.

(Sheet 2 of 2)

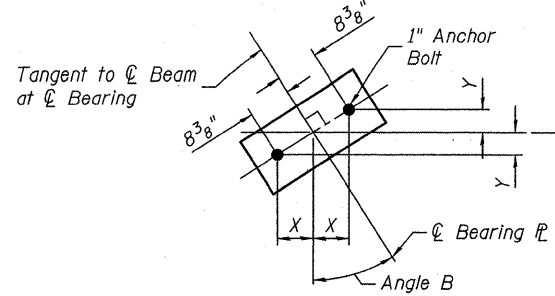


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PRINT DATE: 9/7/2011 2:15:08 PM z:\08035_1-57 and 113_interchange\bridge\1000098-78182-026-Pier-1 (2 of 2).dgn

FILE NAME = 1000098-78182-026-Pier-1 (2 of 2).dgn	USER NAME = jo	DESIGNED - CTW	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER 1 STRUCTURE NO. 100-0098	F.A.I. RTE. 57	SECTION (X1-6-2)HB-2	COUNTY WILLIAMSON	TOTAL SHEETS 968	SHEET NO. 709	
PLOT SCALE = 0=1.0000 '1' / IN.	DRAWN - DP	CHECKED - CDL	REVISIONS -			SHEET NO. 26 OF 33 SHEETS					
PLOT DATE = 9/7/2011	DATE - 9/7/2011	REVISIONS -	REVISIONS -			CONTRACT NO. 78182					
						ILLINOIS FED. AID PROJECT					

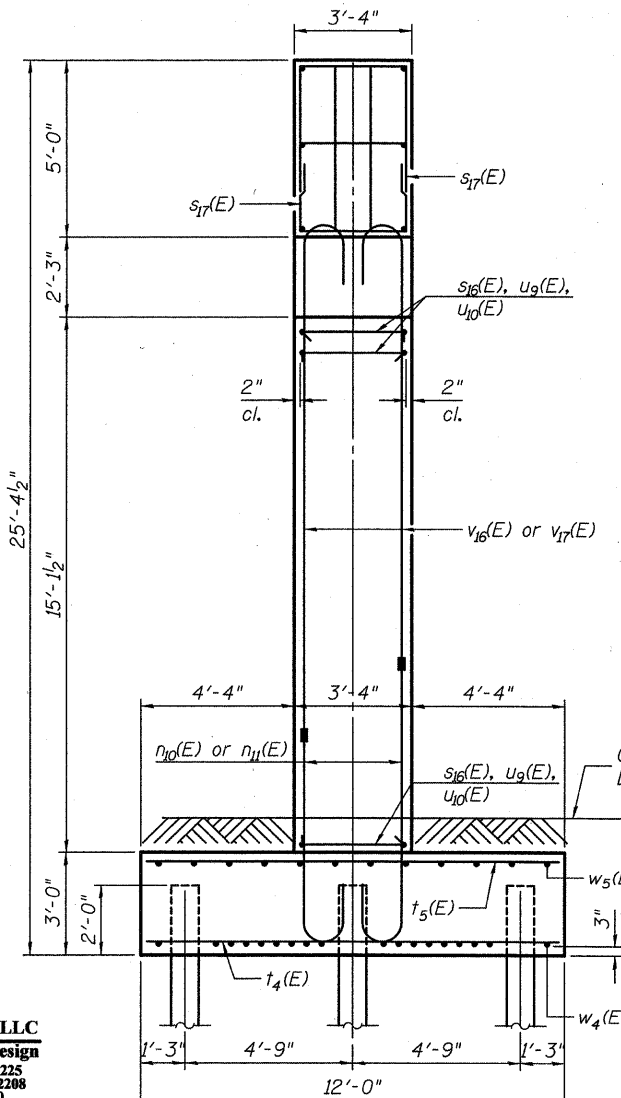
Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 29 of 33.
 Each set of $s_{17}(E)$, $s_{16}(E)$ and $s_{15}(E)$ bars has 4 bars (2 top and 2 bottom). See Section A-A.
 For details of Mechanical Splice, see sheet 30 of 33.
 The piers shall have all exposed surfaces treated with Concrete Sealer.



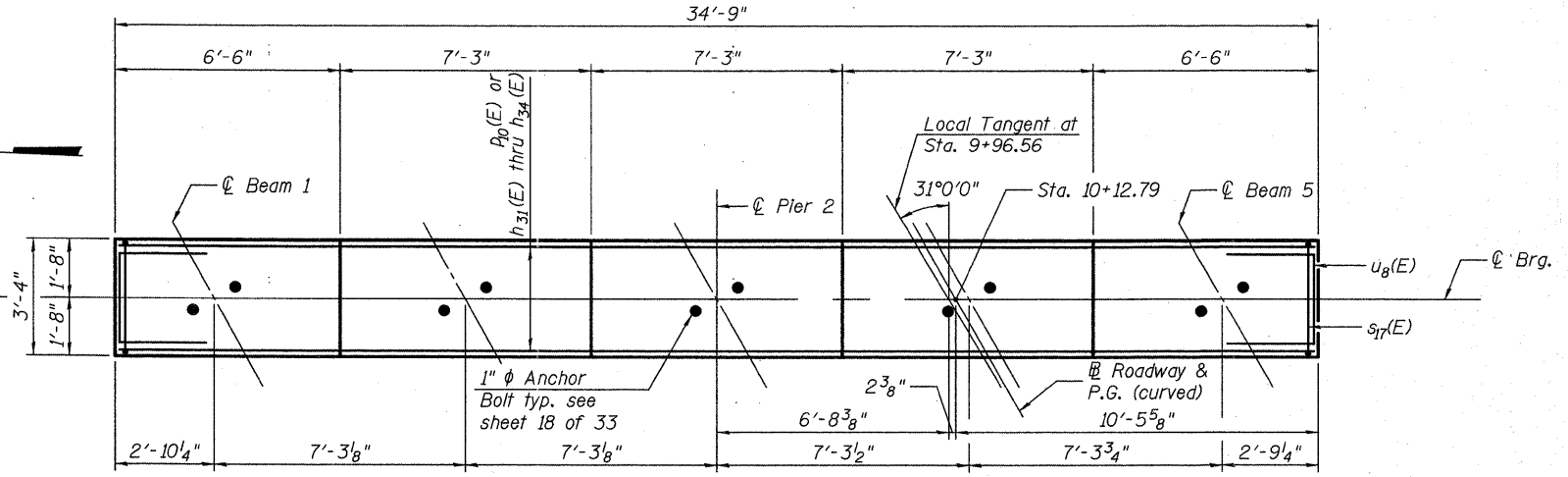
ANCHOR BOLT LAYOUT

ANCHOR BOLT LAYOUT DIMENSIONS

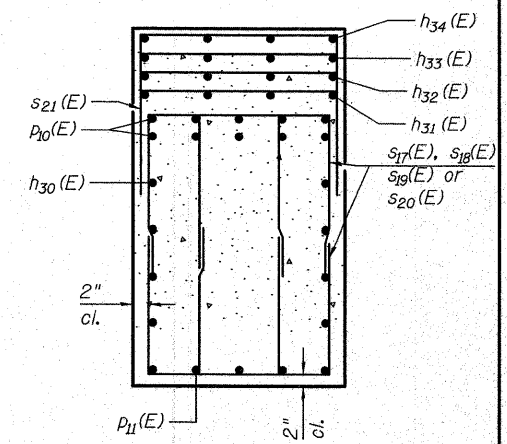
	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5
Angle B	28°59'	29°15'	29°31'	29°47'	30°4'
X	7 ³ / ₈ "	7 ¹ / ₄ "	7 ¹ / ₄ "	7 ¹ / ₄ "	7 ¹ / ₄ "
Y	4"	4 ¹ / ₈ "	4 ¹ / ₈ "	4 ¹ / ₈ "	4 ¹ / ₄ "



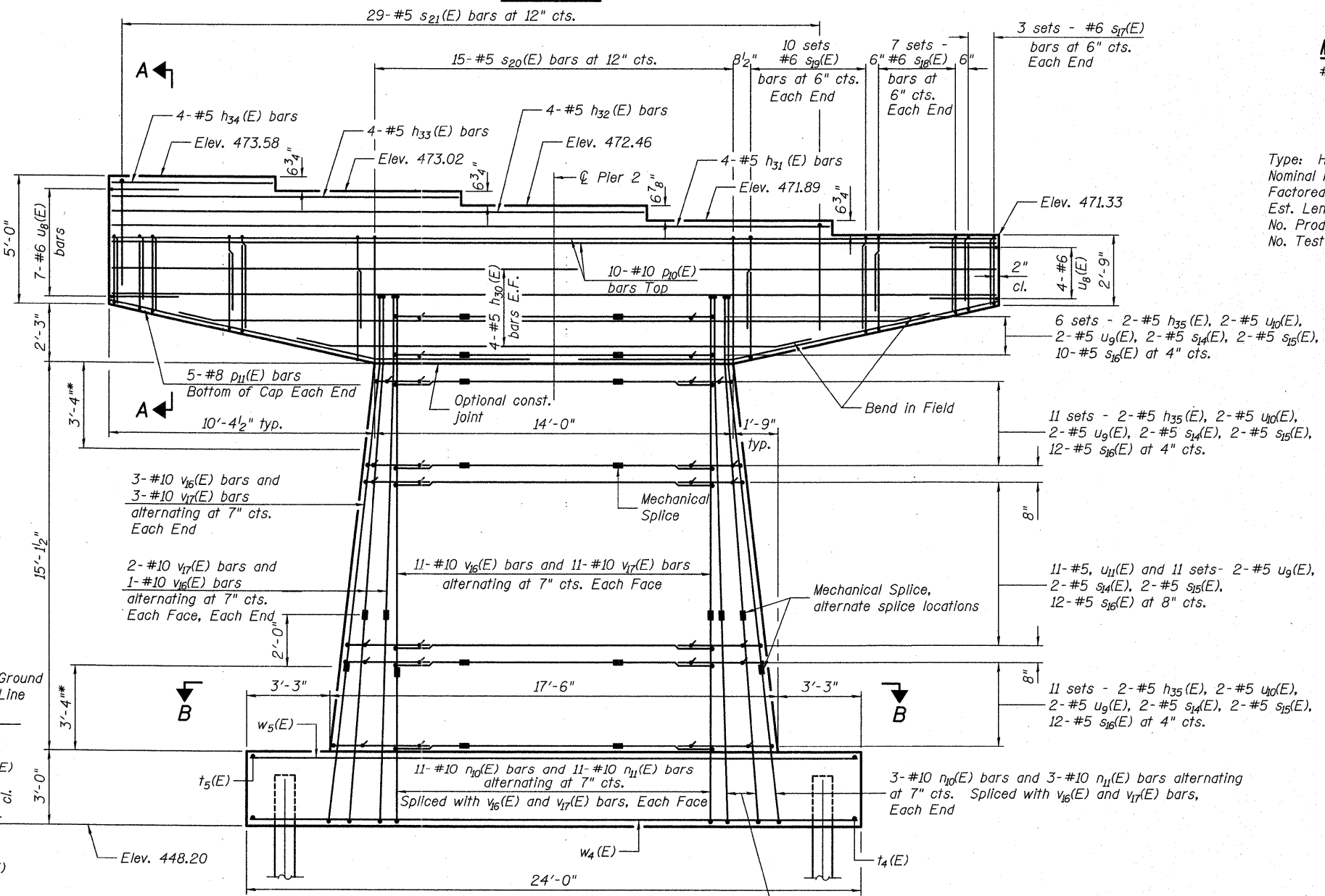
END VIEW



TOP PLAN



SECTION A-A



ELEVATION

* Limits of plastic hinging region. No lap splices allowed.

MIN BAR LAP

#6 bars = 2'-3"

PILE DATA

Type: HP 12x53 with Pile Shoes
 Nominal Required Bearing: 412 kip
 Factored Resistance Available: 227 kip
 Est. Length: 22'
 No. Production Piles: 12
 No. Test Piles: 1

PRINT DATE: 9/7/2011 2:59:18 PM z:\100235_1-57 and 1113 inter-change\bridge\dgn\plot\sheet\1000098-78182-027-Pier-2 (1 of 2).dgn

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 Phone 618-206-4250

FILE NAME = 1000098-78182-027-Pier-2 (1 of 2).dgn	USER NAME = ja	DESIGNED - CTW	REVISED -
PLOT SCALE = 0.1:0000 '1' IN.	DRAWN - DP	CHECKED - CDL	REVISED -
PLOT DATE = 9/7/2011	DATE - 9/7/2011	DRAWN - DP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2
STRUCTURE NO. 100-0098

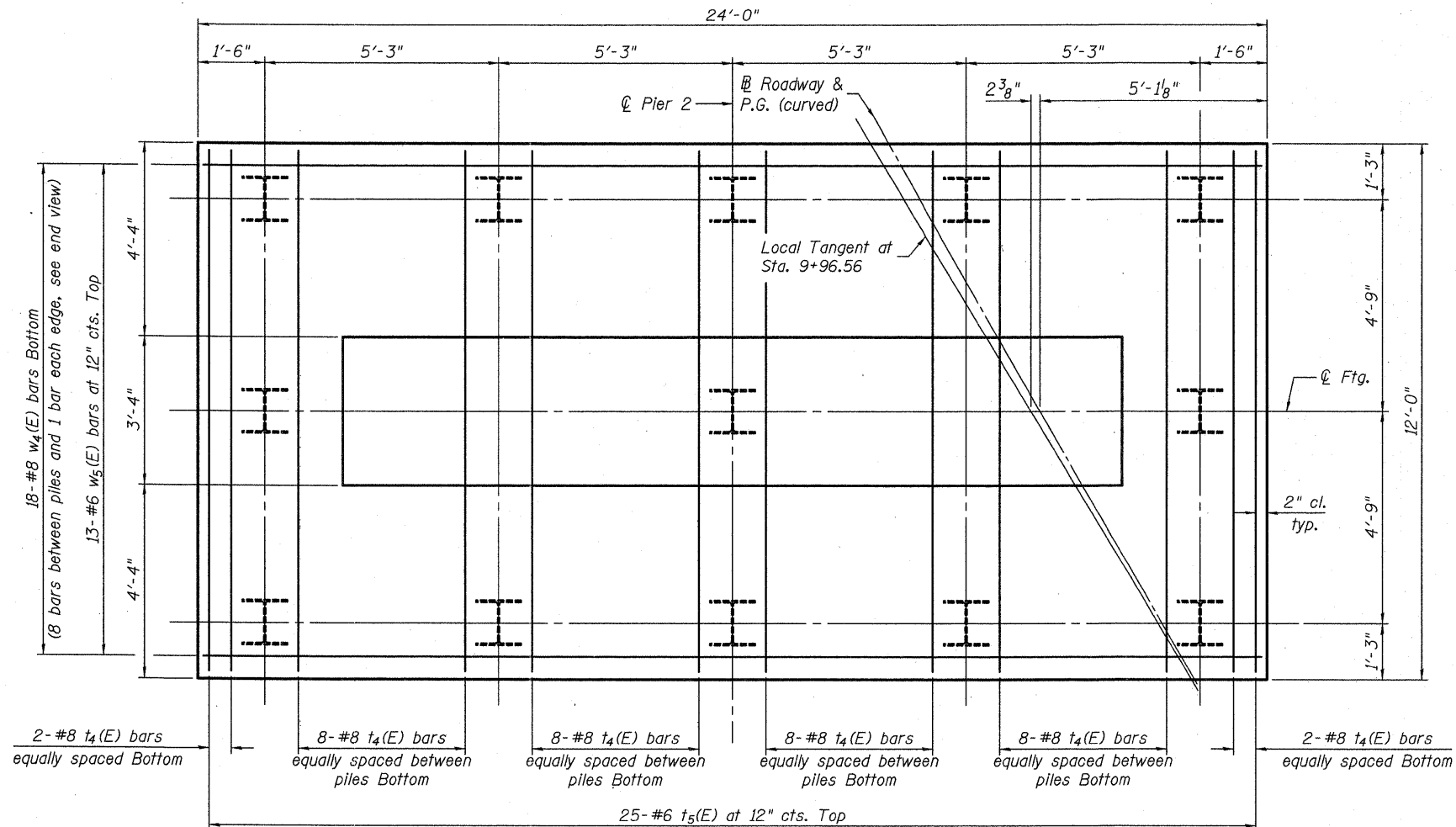
SHEET NO. 27 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-6-2)HB-2	WILLIAMSON	968	710
CONTRACT NO. 78182				

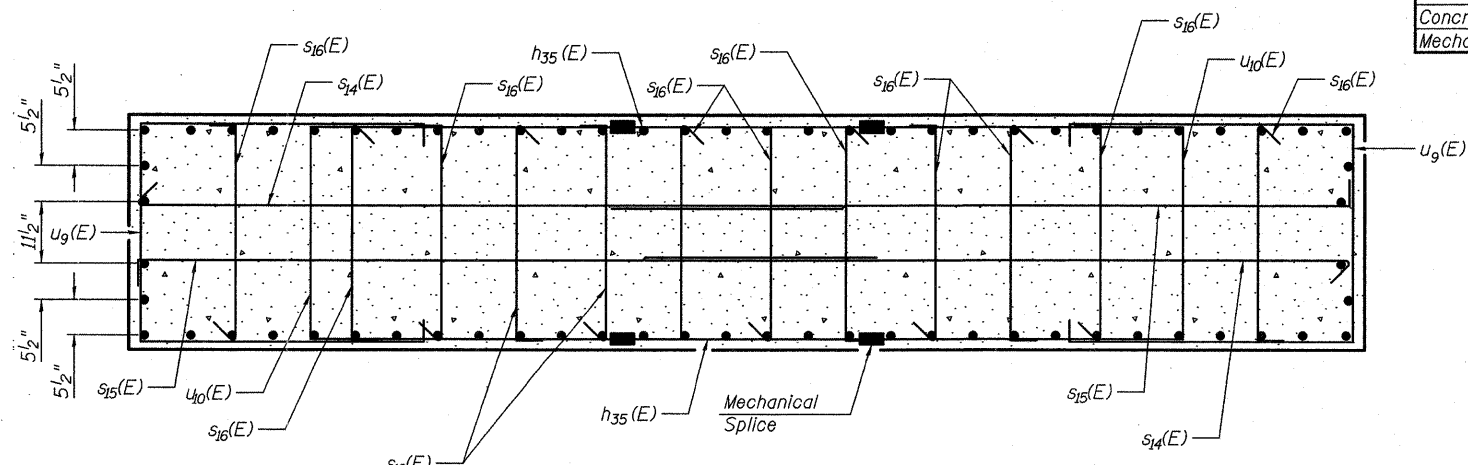
ILLINOIS FED. AID PROJECT

**PIER 2
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h30(E)	8	#5	34'-5"	
h31(E)	4	#5	27'-11"	
h32(E)	4	#5	20'-8"	
h33(E)	4	#5	13'-5"	
h34(E)	4	#5	6'-2"	
h35(E)	56	#5	4'-0"	
n10(E)	32	#10	7'-6"	
n11(E)	36	#10	9'-6"	
d10(E)	10	#10	34'-5"	
d11(E)	10	#8	15'-1"	
s14(E)	78	#5	10'-10"	
s15(E)	78	#5	10'-11"	
s16(E)	456	#5	3'-11"	
s17(E)	24	#6	6'-10"	
s18(E)	56	#6	7'-6"	
s19(E)	80	#6	8'-11"	
s20(E)	15	#5	16'-3"	
s21(E)	29	#5	11'-10"	
t4(E)	36	#8	11'-8"	
t5(E)	25	#6	11'-8"	
u8(E)	11	#6	8'-2"	
u9(E)	78	#5	16'-0"	
u10(E)	56	#5	11'-5"	
u11(E)	11	#5	31'-10"	
v16(E)	32	#10	15'-11"	
v17(E)	36	#10	13'-11"	
w4(E)	18	#8	23'-8"	
w5(E)	13	#6	23'-8"	
Structure Excavation	Cu. Yd.		67	
Concrete Structures	Cu. Yd.		84.8	
Reinforcement Bars, Epoxy Coated	Pound		21,370	
Furnishing Steel Piles HP12x53	Foot		264	
Driving Piles	Foot		264	
Pile Shoes	Each		13	
Test Pile Steel HP12x53	Each		1	
Concrete Sealer	Sq. Ft.		1100	
Mechanical Splicers	Each		180	



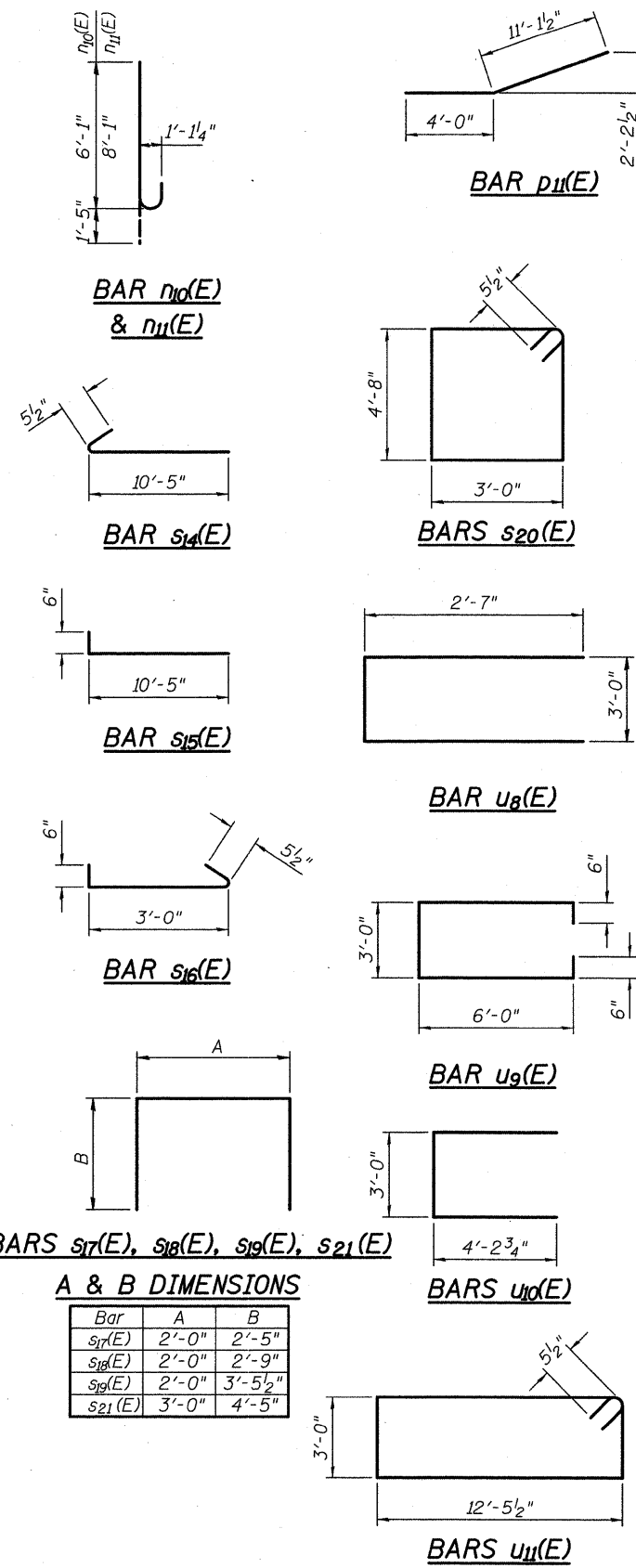
FOOTING PLAN



SECTION B-B

Note:
Alternate orientation of s16(E) bars as shown in End View on sheet 27 of 33.

(Sheet 2 of 2)



PRINT DATE: 9/7/2011 2:19:13 PM
 FILE NAME: 1000098-78182-020-21.dgn
 USER NAME: ja
 DESIGNED: CTW
 CHECKED: CDL
 DRAWN: DP
 DATE: 9/7/2011
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 PLOT DATE: 9/7/2011

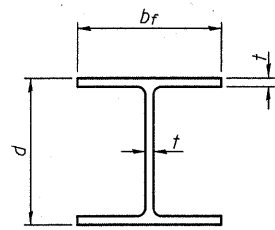
EFK Moen, LLC
 Civil Engineering Design
 331 Salem Place, Suite 225
 Fairview Heights, IL 62208
 Phone 618-206-4250

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 2
STRUCTURE NO. 100-0098**
SHEET NO. 28 OF 33 SHEETS

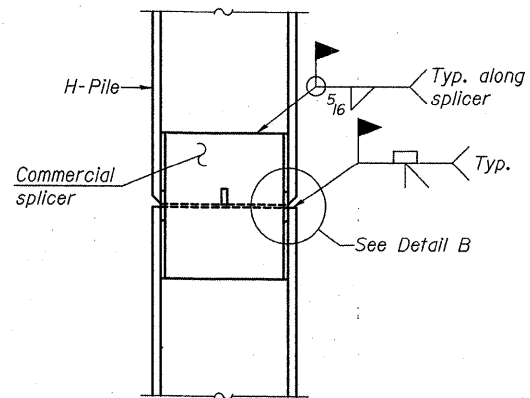
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-6-2)HB-2	WILLIAMSON	968	711
CONTRACT NO. 78182				

ILLINOIS FED. AID PROJECT

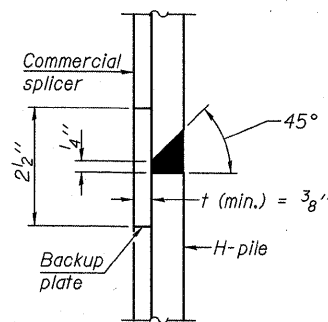


STEEL PILE TABLE

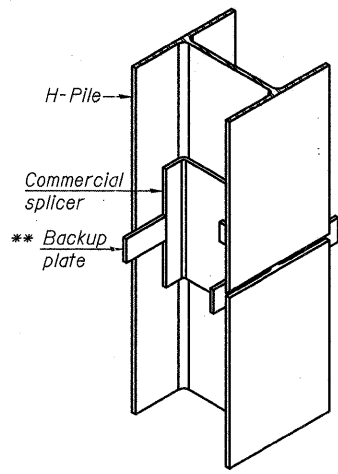
Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

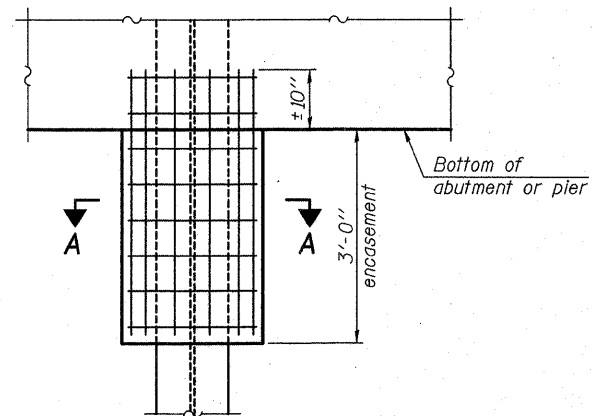


DETAIL "B"



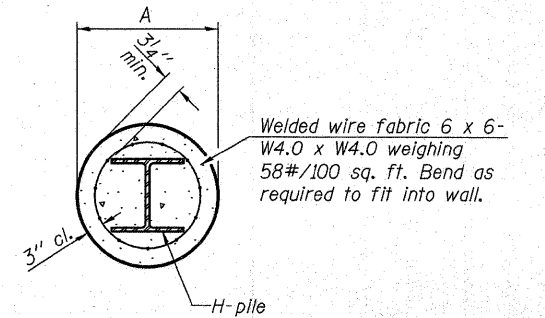
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



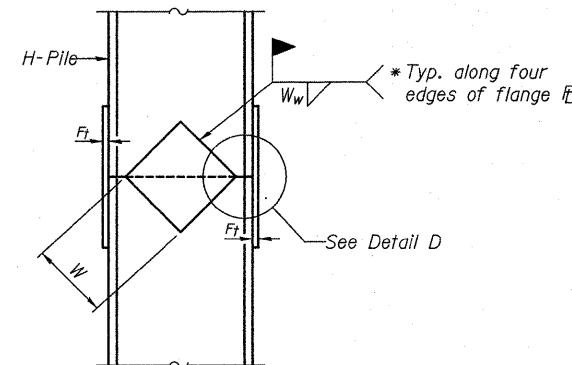
ELEVATION

PILE ENCASEMENT

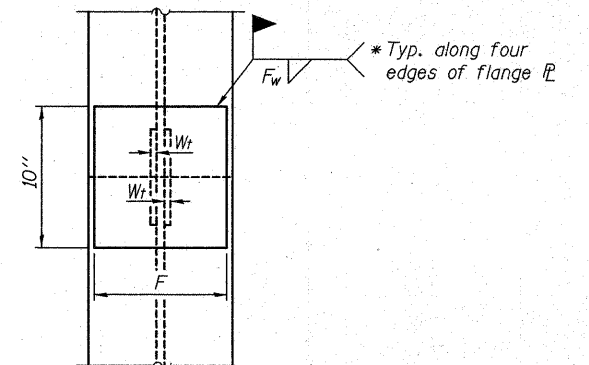


Note:
Forms for encasement may be omitted when soil conditions permit.

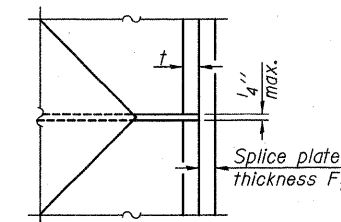
SECTION A-A



ELEVATION



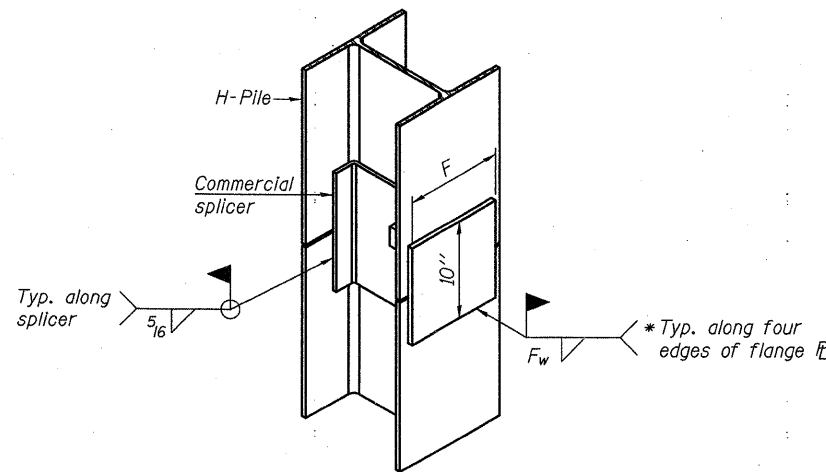
END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

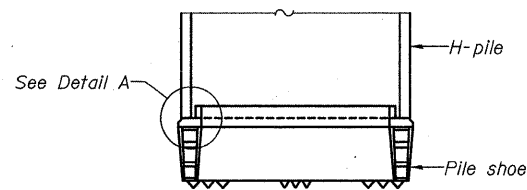


ISOMETRIC VIEW

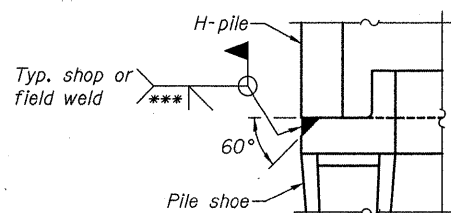
WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT

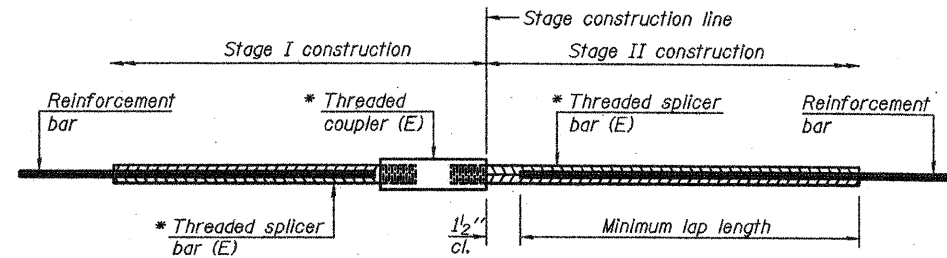
EFK Moen, LLC
Civil Engineering Design
331 Salem Place, Suite 225
Fairview Heights, IL 62208
Phone 618-206-4250

F-HP

7-1-10

FILE NAME = 1000098-78182-029-Pile_Details.dgn	USER NAME = ja	DESIGNED - CTW	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HP PILE DETAILS STRUCTURE NO. 100-0098	F.A.I. RTE. 57	SECTION (X1-6-2)HB-2	COUNTY WILLIAMSON	TOTAL SHEETS 968	SHEET NO. 712	
PLOT SCALE = 0:1.0000 ' = 1" IN.	DRAWN - DP	CHECKED - CDL	REVISIONS -			CONTRACT NO. 78182					
PLOT DATE = 9/7/2011	DATE - 9/7/2011	DRAWN - DP	REVISIONS -			ILLINOIS FED. AID PROJECT					
		DATE - 9/7/2011	REVISIONS -			SHEET NO. 29 OF 33 SHEETS					

PRINT DATE: 9/7/2011 2:04 PM z:\0805-1-07 and 110_mechanics\dgn\work\pilesheets\1000098-78182-029-Pile_Details.dgn



STANDARD BAR SPLICER ASSEMBLY

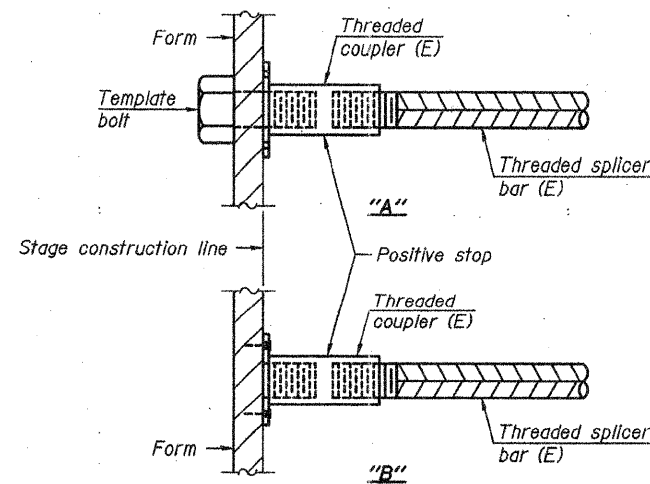
Bar size to be spliced	Minimum Lap Lengths				
	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1/2" + thread length

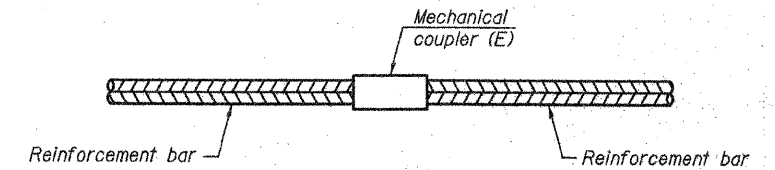
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



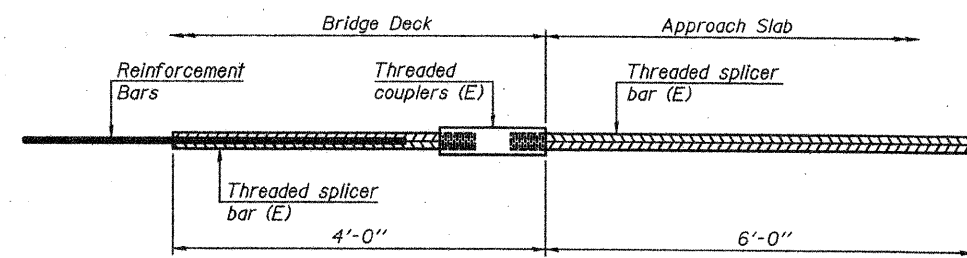
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



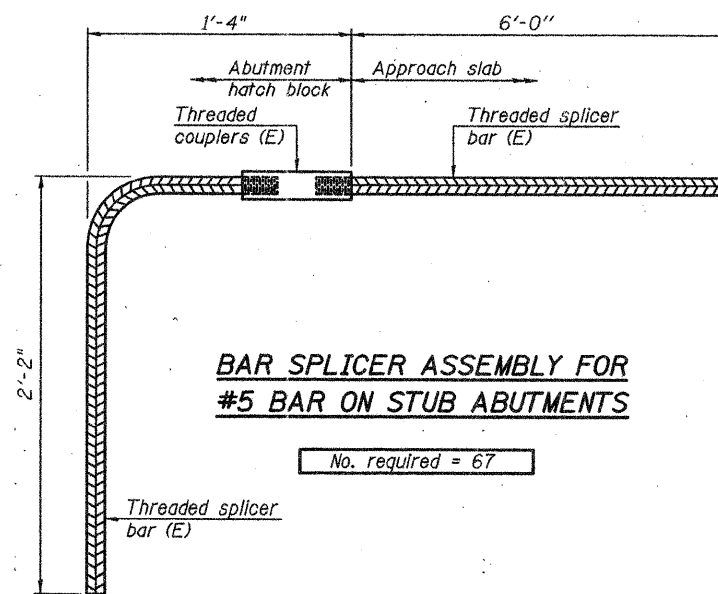
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Pier 1 Column	#10	70
Pier 1 Column	#5	112
Pier 2 Column	#10	68
Pier 2 Column	#5	112



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 0



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 67

NOTES

- Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
- All reinforcement shall be lapped and tied to the splicer bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
- See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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BSD-1

7-1-10

FILE NAME	USER NAME	DESIGNED	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1000098-78182-038-Bar_Splicer.dgn	ja	CTW		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 100-0098	57	X1-6-2HB-2	WILLIAMSON	968	713
PLOT SCALE = 0.10000 1' / IN.		CDL				SHEET NO. 30 OF 33 SHEETS	ILLINOIS FED. AID PROJECT			
PLOT DATE = 9/7/2011		DP				CONTRACT NO. 78182				



SOIL BORING LOG

Page 1 of 1

Date 9/8/10

ROUTE FAI 57/FAP 331 DESCRIPTION FAI 57 Ramp J over Ramp A LOGGED BY KEG

SECTION (X1-6-2)HB-2 LOCATION Marion; N 1/2 Section 14, TWP 9S, RNG 2E

COUNTY Williamson DRILLING METHOD CME 55LC/HSA HAMMER TYPE Automatic

STRUCT. NO. 100-0098
 Station _____
 BORING NO. B-8
 Station 9+23.76
 Offset 4.6 ft Lt
 Ground Surface Elev. 456.57 ft

DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOIST (%)
455.6				Grass cover and topsoil				
453.6	7			FILL: Brown, silty clay (A-6)	7	11	3.9	16
451.1	3	0.9	21	SILTY CLAY: Brown (A-6)	50/4"	-	7	
451.1	4	B			50/2"			
451.1	3			CLAY: Brown and grayish brown, some sand, trace organics (A-7)	50/5"			
451.1	4	1.9	20		50/3"	-	6	
451.1	5	B						
451.1	3			Becomes brown, no organics	41			
451.1	4	2.0	20		50/5"	-	8	
451.1	5	B						
451.1	2			Becomes brown and gray	40			
451.1	3	1.1	19		44	-	9	
451.1	3	S			50/5"			
451.1	3			Trace gravel	423.6			
451.1	4	2.2	19		422.8			
451.1	6	B			50/3"	-	11	
451.1	3			SANDY CLAY: Brown, trace coal (A-6)	50/0.5"			
451.1	4	1.9	17					
451.1	5	B						
451.1	2			CLAY: Brown and gray, some sand, trace coal (A-7)				
451.1	3	2.1	18					
451.1	6	B						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 9/8/10

ROUTE FAI 57/FAP 331 DESCRIPTION FAI 57 Ramp J over Ramp A LOGGED BY KEG

SECTION (X1-6-2)HB-2 LOCATION Marion; N 1/2 Section 14, TWP 9S, RNG 2E

COUNTY Williamson DRILLING METHOD CME 55LC/HSA HAMMER TYPE Automatic

STRUCT. NO. 100-0098
 Station _____
 BORING NO. B-9
 Station 10+27.53
 Offset 4.2 ft Lt
 Ground Surface Elev. 459.59 ft

DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOIST (%)
458.6				Grass cover and topsoil				
458.6	8			FILL: Brown, silty clay (A-6)	3	8	3.1	17
458.6	7	4.5	12		5	B		
458.6	5			SANDY CLAY: Brown (A-6)	8			
458.6	5	3.4	17	LL-37, PL-17, PI-20	7	3.1	18	
458.6	6	S			14	B		
458.6	5			Weathered shale	21			
458.6	4				50/3"	-	16	
458.6	5	1.5	18	CLAYEY SHALE: Brown	50/2"			
458.6	6	S		Becomes gray				
458.6	3			SANDY CLAY: Brown (A-4)	40			
458.6	2	-	20		50/5"	-	11	
458.6	3			Sand content decreases (A-6)	50/1"			
458.6	4	1.9	17					
458.6	5	B						
458.6	3			Sand content increases (A-4)	40			
458.6	4	-	21		50/3"	-	15	
458.6	3			End of Boring				
458.6	5	1.6	16	CLAY: Brown, some sand (A-7)				
458.6	7	B						
458.6	3			Becomes brown and gray, trace coal				
458.6	4	2.2	18					
458.6	5	B						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

PRINT DATE: 9/7/2011 2:19:18 PM z:\100098-78182-031-Soil.Boring.Logs.dgn

EFK Moen, LLC
 Civil Engineering Design
 331 Salem Place, Suite 225
 Fairview Heights, IL 62208
 Phone 618-206-4250

FILE NAME = 100098-78182-031-Soil.Boring.Logs.dgn	USER NAME = je	DESIGNED - CTW	REVISED -
		CHECKED - CDL	REVISED -
		DRAWN - DP	REVISED -
		DATE - 9/7/2011	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS
 STRUCTURE NO. 100-0098

SHEET NO. 31 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-6-2)HB-2	WILLIAMSON	968	714
CONTRACT NO. 78182				

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Page 1 of 1

Date 9/8/10

ROUTE FAI 57/FAP 331 DESCRIPTION FAI 57 Ramp J over Ramp A LOGGED BY KEG
 SECTION (X1-6-2)HB-2 LOCATION Marion; N 1/2 Section 14, TWP 9S, RNG 2E
 COUNTY Williamson DRILLING METHOD CME 55LC/HSA HAMMER TYPE Automatic

STRUCT. NO.	DEPT H	BLOWS	UCS	MOIST	Surface Water Elev.	DEPT H	BLOWS	UCS	MOIST
Station	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
100-0098									
BORING NO. B-10					Groundwater Elev.:				
Station 9+51.13					First Encounter 426.3				
Offset 39.2 ft Lt					Upon Completion				
Ground Surface Elev. 457.31					After				
					Hrs.				
Grass cover and topsoil	456.3				436.8				
FILL: Brown, silty clay (A-6)	8				CLAYEY SHALE: Brown and gray				
	6	4.5	14			11			
	6	P				50/5"	-	11	
SILTY CLAY: Brown, trace sand (A-7)	4				433.3				
	4	1.6	18		SHALE: Gray				
	6	B				50/2"	-	7	
CLAY: Brown, trace sand (A-7)	3				433.3				
	3	0.8	21			50/4"	-	6	
	3	B				50/2"			
Becomes brown and gray, no sand	3				426.8				
	4	2.2	20		CLAYEY SHALE: Gray				
	5	B				19			
						27	-	16	
Becomes brown, some sand, trace gravel	3				424.8				
	4	2.8	18		End of Boring				
	8	P							
Trace sand	3								
	7	2.7	15						
	9	B							
SILTY CLAY: Brown, some sand (A-6)	3								
	4	1.1	20						
	6	B							
CLAY: Brown and gray, some sand, trace coal (A-7)	14								
	9	2.4	16						
	9	B							
With limestone rock									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 9/8/10

ROUTE FAI 57/FAP 331 DESCRIPTION FAI 57 Ramp J over Ramp A LOGGED BY KEG
 SECTION (X1-6-2)HB-2 LOCATION Marion; N 1/2 Section 14, TWP 9S, RNG 2E
 COUNTY Williamson DRILLING METHOD CME 55LC/HSA HAMMER TYPE Automatic

STRUCT. NO.	DEPT H	BLOWS	UCS	MOIST	Surface Water Elev.	DEPT H	BLOWS	UCS	MOIST
Station	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
100-0098									
BORING NO. B-11					Groundwater Elev.:				
Station 11+09.21					First Encounter				
Offset 26.3 ft Lt					Upon Completion				
Ground Surface Elev. 466.22					After				
					Hrs.				
Grass cover and topsoil	465.2				463.2				
FILL: Brown, silty clay (A-6)	8				CLAY: Brown, trace sand (A-7) (continued)				
	8	5.6	13		Becomes brown and gray, some sand				
	6	S				2			
						3	0.7	19	
SILTY CLAY: Brown (A-6)	4					4	B		
	4								
	5	2.0	18			2			
	5	S				3	0.7	20	
						4	B		
CLAY: Brown, some sand (A-7)	3				460.7				
	3								
	5	2.2	15						
	9	B							
SANDY CLAY: Brown (A-6)	4				459.2				
Recovery 20/24 inches; Dry Density - 109.3 pcf; Unconfined compression test result reported in Qu (tsf) column	5	2.2	16						
Becomes gray	7	B							
Becomes brown	3				434.2				
Recovery 24/24 inches; Dry Density - 112.5 pcf; Unconfined compression test result reported in Qu (tsf) column	4	2.0	16		SHALE: Gray				
LL-30, PL-17, PI-13	5	B							
Becomes brown	3								
Recovery 24/24 inches; Dry Density - 112.5 pcf; Unconfined compression test result reported in Qu (tsf) column	4	2.0	16						
LL-30, PL-17, PI-13	5	B							
Becomes brown	3				432.1				
Recovery 24/24 inches; Dry Density - 112.5 pcf; Unconfined compression test result reported in Qu (tsf) column	4	2.0	16		SHALE: Gray				
LL-30, PL-17, PI-13	5	B							
Becomes brown	3								
Recovery 24/24 inches; Dry Density - 112.5 pcf; Unconfined compression test result reported in Qu (tsf) column	4	2.0	16						
LL-30, PL-17, PI-13	5	B							
Becomes brown	3				448.2				
Recovery 24/24 inches; Dry Density - 112.5 pcf; Unconfined compression test result reported in Qu (tsf) column	4	2.0	16		CLAY: Brown, trace sand (A-7)				
LL-30, PL-17, PI-13	5	B							
Becomes brown	3								
Recovery 24/24 inches; Dry Density - 112.5 pcf; Unconfined compression test result reported in Qu (tsf) column	4	2.8	20						
LL-30, PL-17, PI-13	5	S							
Becomes brown	3								
Recovery 24/24 inches; Dry Density - 112.5 pcf; Unconfined compression test result reported in Qu (tsf) column	4	2.8	20						
LL-30, PL-17, PI-13	5	S							
Becomes brown	3								
Recovery 24/24 inches; Dry Density - 112.5 pcf; Unconfined compression test result reported in Qu (tsf) column	4	2.8	20						
LL-30, PL-17, PI-13	5	S							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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EFK Moen, LLC
 Civil Engineering Design
 331 Salem Place, Suite 225
 Fairview Heights, IL 62208
 Phone 618-206-4250

FILE NAME = 1000098-78182-032-Soil.Boring.Logs.dgn	USER NAME = je	DESIGNED - CTW	REVISED -
		CHECKED - CDL	REVISED -
		DRAWN - DP	REVISED -
		DATE - 9/7/2011	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS
 STRUCTURE NO. 100-0098

SHEET NO. 32 OF 33 SHEETS

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-6-2)HB-2	WILLIAMSON	968	715
CONTRACT NO. 78182			ILLINOIS FED. AID PROJECT	



SOIL BORING LOG

ROUTE FAI 57/FAP 331 DESCRIPTION FAI 57 Ramp J over Ramp A LOGGED BY KEG
 SECTION (X1-6-2)HB-2 LOCATION Marion; N 1/2 Section 14, TWP 9S, RNG 2E
 COUNTY Williamson DRILLING METHOD CME 55LC/HSA HAMMER TYPE Automatic

STRUCT. NO. 100-0098
 Station _____
 BORING NO. B-12
 Station 10+40.97
 Offset 41.6 ft Lt
 Ground Surface Elev. 460.98 ft

DEPTH H S	BLOW W S	UCS Qu	MOIST T	Surface Water Elev. _____ ft	DE P T H	B L O W S	U C S	M O I S T
(ft)	(/6")	(tsf)	(%)	Stream Bed Elev. _____ ft	(ft)	(/6")	(tsf)	(%)
				Groundwater Elev.:				
				First Encounter _____ ft				
				Upon Completion _____ ft				
				After _____ Hrs.				
Grass cover and topsoil				440.5				
FILL: Brown, silty clay (A-6)	10	4.5	9	SAND: Brown, fine, with silt and clay (A-2)		WH		
	9	P				3		25
CLAY: Brown, some sand, trace gravel (A-7)	5			SANDY CLAY: Brown, with weathered rock (A-7)		50/1"		12
	8	2.4	20			50/1"		
	8	B		CLAYEY SHALE: Gray				
SANDY CLAY: Brown (A-7)	3					45		
	6	2.1	17			50/2"		14
	9	B						
Sand content increases (A-6)	6			Becomes grayish brown		50/5"		11
	5	0.4	20	End of Boring		50/1"		
	6	S						
Sand content increases (A-4)	3							
	4	0.3	19					
	4	P						
CLAY: Brown and gray, some sand (A-7)	5							
	6	3.1	14					
	9	B						
	3							
	5	2.4	17					
	8	B						
Becomes brown	2							
	3	0.8	20					
	4	B						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

EFK Moen, LLC
 Civil Engineering Design
 331 Salem Place, Suite 225
 Fairview Heights, IL 62208
 Phone 618-206-4250

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

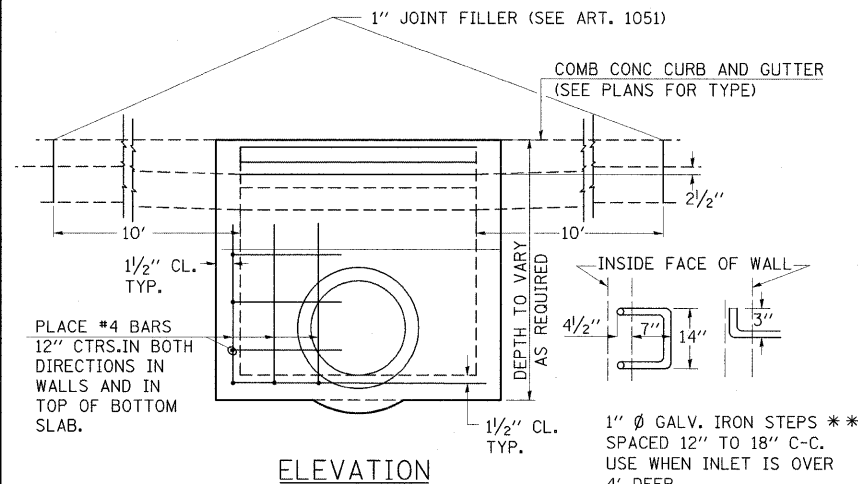
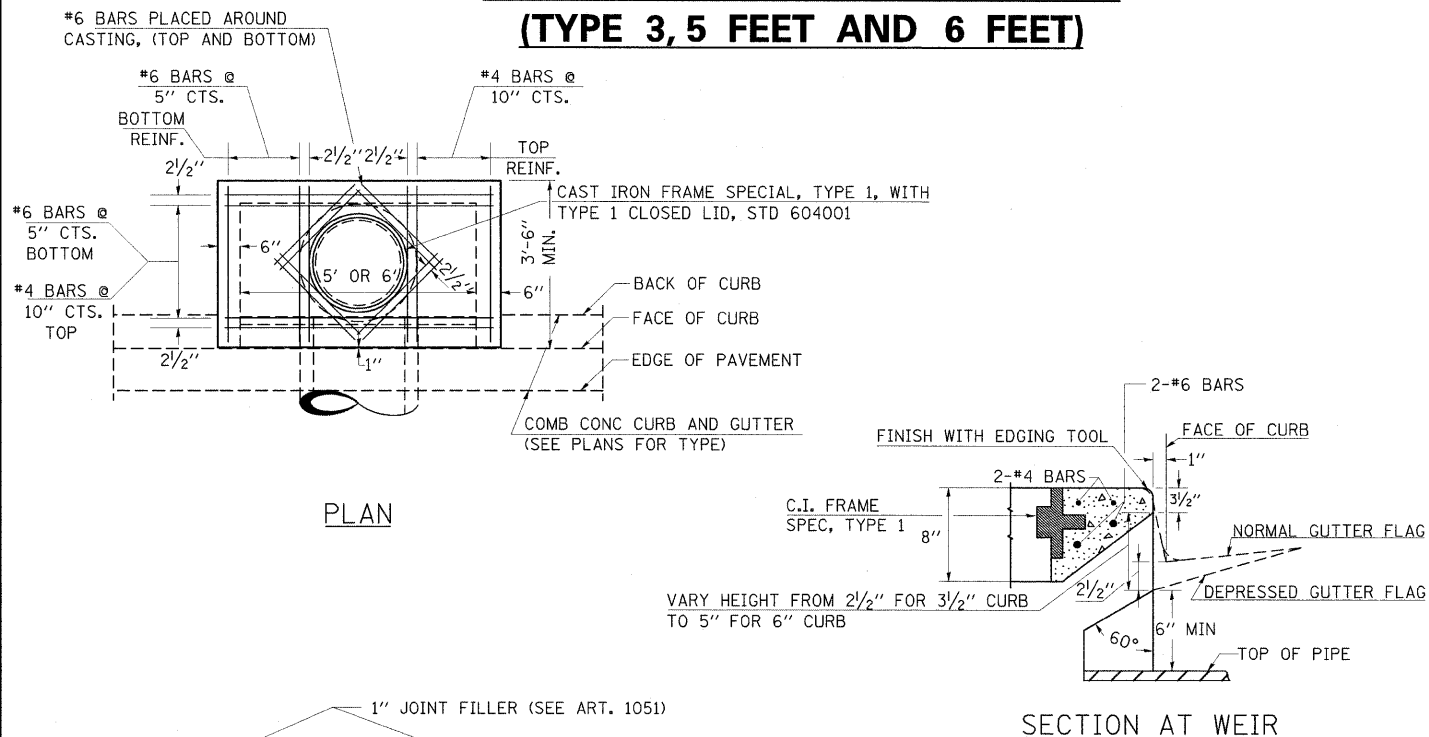
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STRUCTURE NO. 100-0098

SHEET NO. 33 OF 33 SHEETS

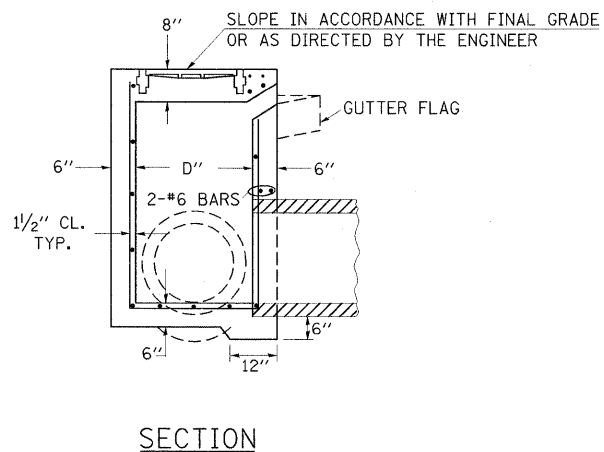
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57	(X1-6-2)HB-2	WILLIAMSON	968	716
CONTRACT NO. 78182				

ILLINOIS FED. AID PROJECT

DETAILS OF INLET, SPECIAL, NO. 1 (TYPE 3, 5 FEET AND 6 FEET)



DESIGN	PIPE DIA	"D"
A	18" & LESS	2'-6"
B	21" & 24"	3'-0"
C	27" & 30"	3'-7"
D	33" & 36"	4'-2"
E	42"	4'-9"
F	48"	5'-0"
G	54"	6'-1"



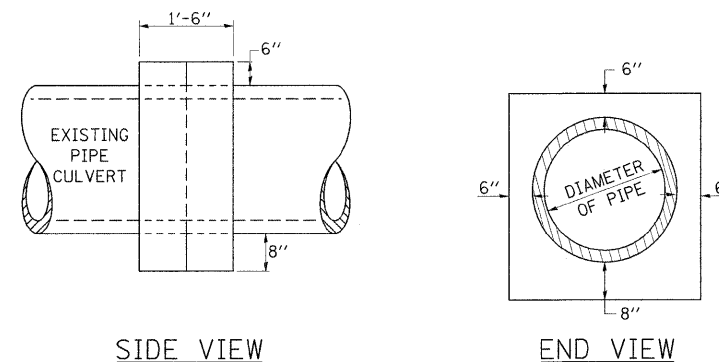
NOTE TO DESIGNER:

WHEN USING THIS STANDARD THE DESIGNER SHOULD ALSO CHECK BDE SPECIAL PROVISION 419 "PRECAST CONCRETE PRODUCTS".

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	1-19-99
REVISED	5-6-04
RESIZED	5-6-08

STD. 9-1

DETAILS OF CONCRETE COLLAR PIPE TO PIPE



TABULATION

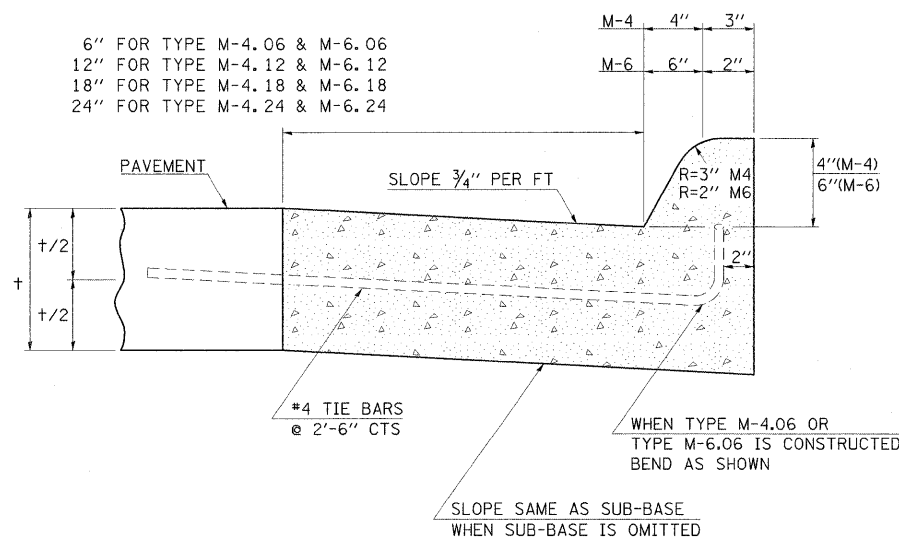
DIAMETER OF PIPE	CL SI CONC CU YDS EST
12"	0.24
15"	0.29
18"	0.32
24"	0.44
30"	0.56
36"	0.66
42"	0.80
48"	0.93
54"	1.07
60"	1.22
72"	1.55

THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS THE EXISTING HEADWALLS AS MAY BE REQUIRED. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

REVISIONS	
DRAWN	7-13-90
REVISED	8-22-94
REVISED	3-26-08

STD. 9-79

MOUNTABLE CURB DETAIL



NOTES:

PROVIDE 1/2" CLEARANCE TYP. ALL REINFORCEMENT UNLESS OTHERWISE SPECIFIED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. SET FACE OF INLET 1" BEHIND FACE OF CURB. DEPRESS GUTTER FLOWLINE AT INLET 2 1/2" BELOW NORMAL GUTTER FLOWLINE. CONSTRUCT TRANSITION IN FLOWLINE IN 10 FEET EACH SIDE OF INLET. PIPES TO BE CONNECTED TO INLET AS SHOWN ON STORM SEWER LAYOUT.

INLETS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR INLET, SPECIAL, NO. 1 WHICH PRICE SHALL INCLUDE THE CAST IRON FRAME, SPECIAL, TYPE 1 WITH TYPE 1 CLOSED LID, THE REINFORCEMENT BARS, METAL STEPS AND JOINT FILLER.

**THE GALVONIZED IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT WILL CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN. MAY BE USED WHEN APPROVED BY THE ENGINEER.

IF THE INLET IS NOT CAST IN PLACE THEN THE INLET SHALL BE PRODUCED ACCORDING TO THE DEPARTMENT'S CURRENT POLICY MEMORANDUM, "QUALITY CONTROL/QUALITY ASSURANCE PROGRAM FOR PRECAST CONCRETE PRODUCTS".

NOTE TO DESIGNER:

WHEN USING THIS STANDARD THE DESIGNER SHOULD ALSO CHECK BDE SPECIAL PROVISION 419 "PRECAST CONCRETE PRODUCTS".

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	1-19-99
REVISED	5-6-04
RESIZED	5-6-08

STD. 9-87

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PLOT SCALE = 50,0000 ' / IN.		DRAWN -	REVISED -
PLOT DATE = 10/7/2011		CHECKED -	REVISED -
		DATE = 10/07/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT DETAILS I-57 AND IL ROUTE 13			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
* 01-6-2HBK-2, HB-1,2; 01-1R-1	WILLIAMSON	968	717
* F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182

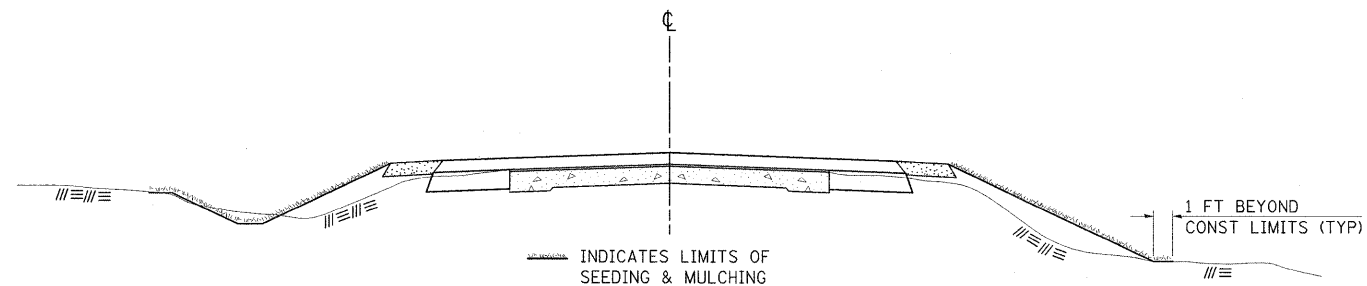
REVISIONS	
DRAWN	1-10-91
REVISED	3-26-08
REVISED	

STD. 9-87

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDING AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDING AREAS.

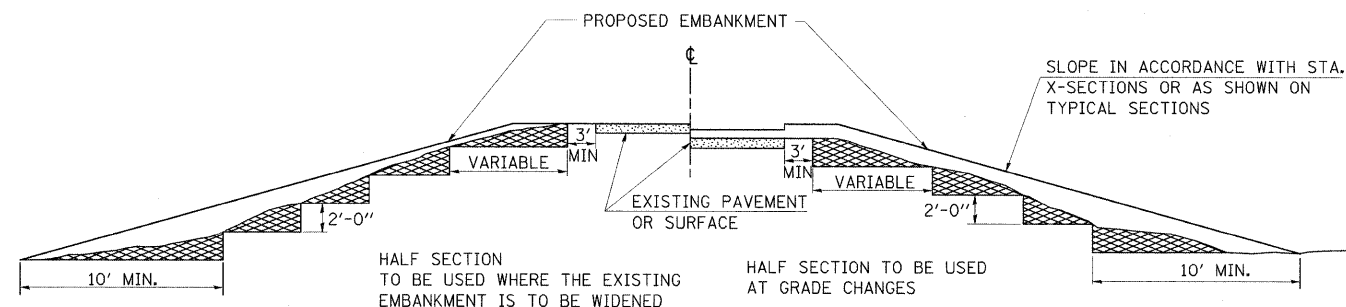
THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08

STD. 9-12

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



HALF SECTION TO BE USED WHERE THE EXISTING EMBANKMENT IS TO BE WIDENED

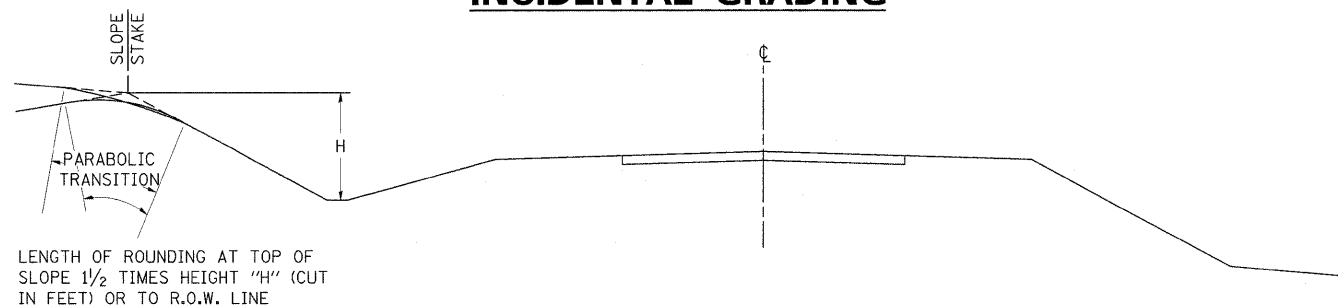
HALF SECTION TO BE USED AT GRADE CHANGES

MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
RESIZED	5-7-08

STD. 9-16

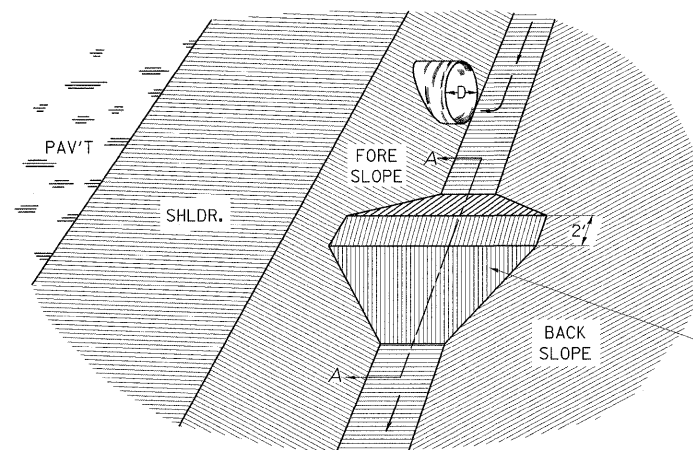
TYPICAL SECTIONS OF TRANSITIONS OF SLOPES AND INCIDENTAL GRADING



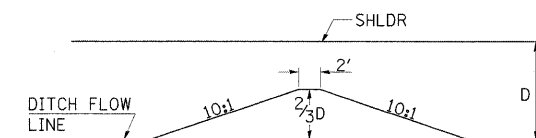
SECTION SHOWING TRANSITIONS OF PROPOSED SLOPES

NOTE:

DITCH PLUG TO BE CONSTRUCTED AS DIRECTED BY THE ENGINEER, INCLUDED IN THE EARTH EXCAVATION

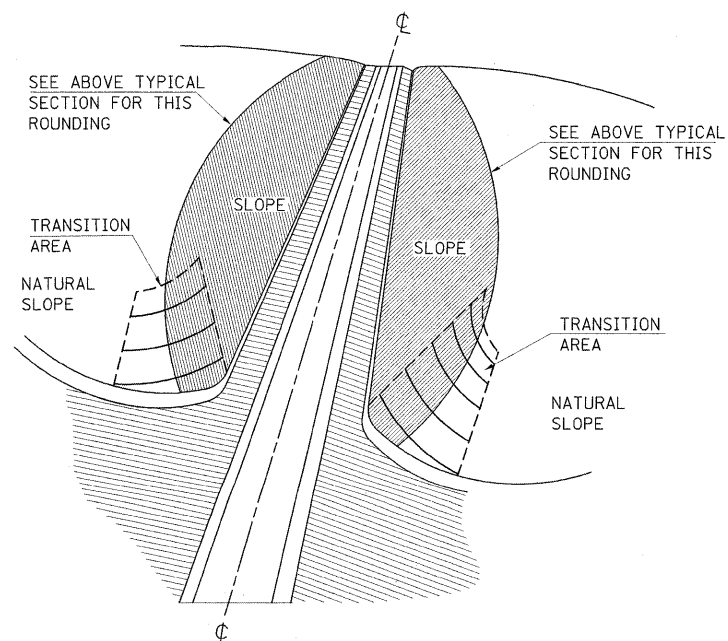


EARTH DITCH PLUG TO BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND TO BE CONSIDERED INCLUDED IN THE EARTH EXCAVATION.



SECTION A-A

DITCH PLUG DETAIL



DETAIL OF SLOPE TO NATURAL GROUND TRANSITION

TRANSITION GRADING

TRANSITION GRADING BETWEEN CUT AND FILL SLOPES AND BETWEEN CUT SLOPES AND NATURAL GROUND WILL BE REQUIRED ON THIS IMPROVEMENT. THE TRANSITION SHALL BE ROUNDED AND STREAMLINED IN ORDER TO BLEND THE CUT SLOPES AND THE FILL SLOPES INTO EACH OTHER AND INTO THE ADJACENT TERRAIN. THE SLOPES AS SHOWN ON THE CROSS SECTIONS IN THESE PLANS MAY BE VARIED SOMEWHAT IN THE TRANSITION AREAS AS DIRECTED BY THE ENGINEER IN ORDER TO MEET THIS GRADING REQUIREMENT. THE QUANTITIES OF EARTH EXCAVATION INVOLVED ARE INCLUDED IN THE BALANCE QUANTITIES SHOWN ON THE PLANS AND NO OTHER COMPENSATION WILL BE ALLOWED.

REVISIONS	
REDRAWN	2-15-89
RESIZED	5-8-08

STD. 9-17

FILE NAME = ...D976182-sht-details.dgn	USER NAME = Rob Heady	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT DETAILS I-57 AND IL ROUTE 13	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,0000' / IN.	DRAWN -	REVISED -			* 0X1-6-2HMK-2, HB-1,2; 0X-1R-1	WILLIAMSON	968	718	
	PLOT DATE = 10/7/2011	CHECKED -	REVISED -			* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
		DATE = 10/07/11	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE: N/A	SHEET NO. OF SHEETS STA. TO STA.					

DETAIL OF PRECAST CONCRETE BOX CULVERT SECTION

(WITH COVER 2 FEET OR GREATER -
AASHTO DESIGNATION M259)
DESIGN LOADING: HS-20-44

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04 OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 1055.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.

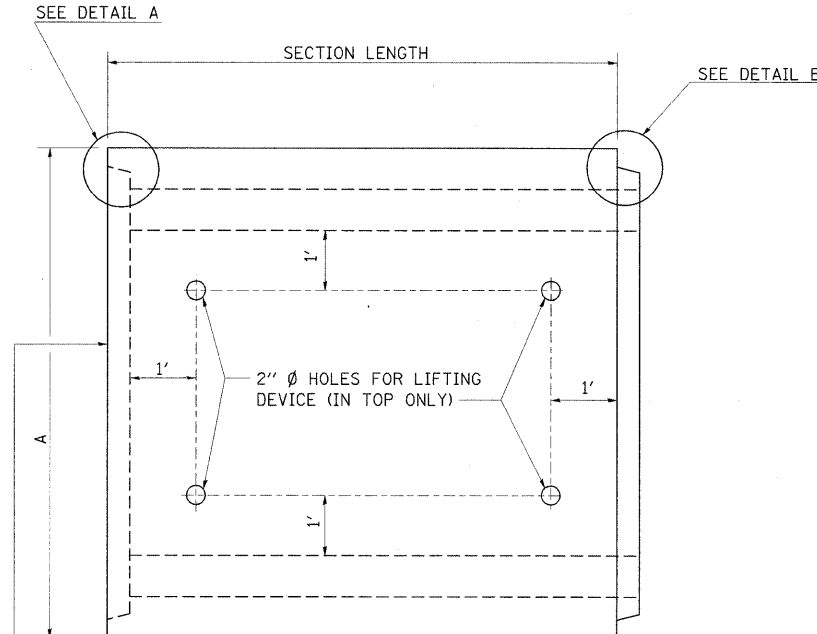
THE TERMS AS1, AS2, & AS3 DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M259. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO M55-81.

DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.

DIMENSIONS

SPAN X RISE	T (INCHES)	A (FT.-IN.)	B (FT.-IN.)	C (INCHES)
2' X 2'	4	2-8	2-8	4
3' X 2'	4	3-8	2-8	4
3' X 3'	4	3-8	3-8	4
4' X 2'	5	4-10	2-10	5
4' X 3'	5	4-10	3-10	5
4' X 4'	5	4-10	4-10	5
5' X 2'	6	6-0	3-0	6
5' X 3'	6	6-0	4-0	6
5' X 4'	6	6-0	5-0	6
5' X 5'	6	6-0	6-0	6
6' X 2'	7	7-2	3-2	7
6' X 3'	7	7-2	4-2	7
6' X 4'	7	7-2	5-2	7
6' X 5'	7	7-2	6-2	7
6' X 6'	7	7-2	7-2	7
7' X 4'	8	8-4	5-4	8
7' X 5'	8	8-4	6-4	8
7' X 6'	8	8-4	7-4	8
7' X 7'	8	8-4	8-4	8
8' X 4'	8	9-4	5-4	8
8' X 5'	8	9-4	6-4	8
8' X 6'	8	9-4	7-4	8
8' X 7'	8	9-4	8-4	8
8' X 8'	8	9-4	9-4	8

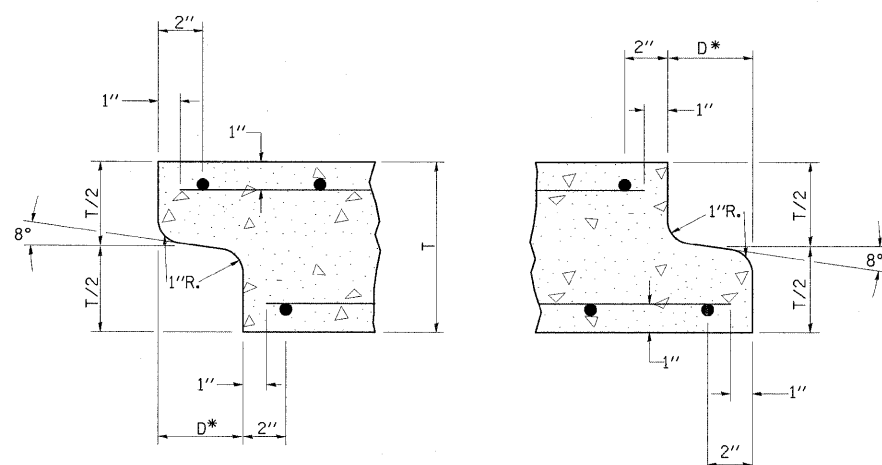
SPAN X RISE	T (INCHES)	A (FT.-IN.)	B (FT.-IN.)	C (INCHES)
9' X 5'	9	10-6	6-6	9
9' X 6'	9	10-6	7-6	9
9' X 7'	9	10-6	8-6	9
9' X 8'	9	10-6	9-6	9
9' X 9'	9	10-6	10-6	9
10' X 5'	10	11-8	6-8	10
10' X 6'	10	11-8	7-8	10
10' X 7'	10	11-8	8-8	10
10' X 8'	10	11-8	9-8	10
10' X 9'	10	11-8	10-8	10
10' X 10'	10	11-8	11-8	10
11' X 4'	11	12-10	5-10	11
11' X 6'	11	12-10	7-10	11
11' X 8'	11	12-10	9-10	11
11' X 10'	11	12-10	11-10	11
11' X 11'	11	12-10	12-10	11
12' X 4'	12	14-0	6-0	12
12' X 6'	12	14-0	8-0	12
12' X 8'	12	14-0	10-0	12
12' X 10'	12	14-0	12-0	12
12' X 12'	12	14-0	14-0	12



WHEN EXTENDING AN EXISTING BOX, PLACE THIS END AGAINST THE EXISTING HEADWALL

PLAN

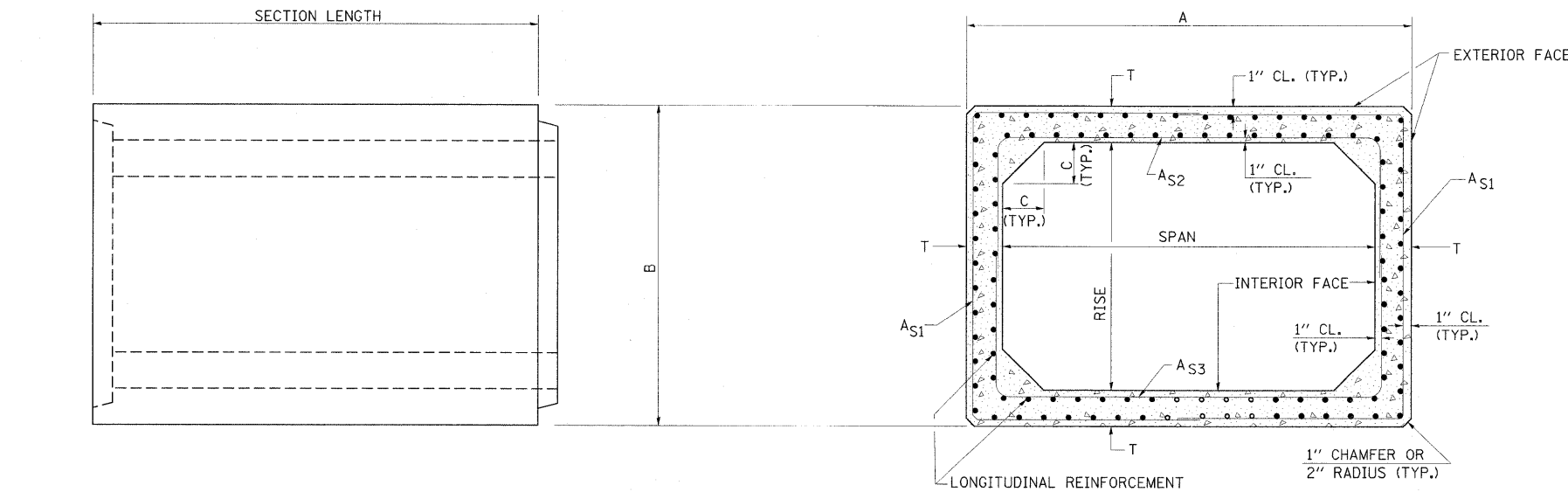
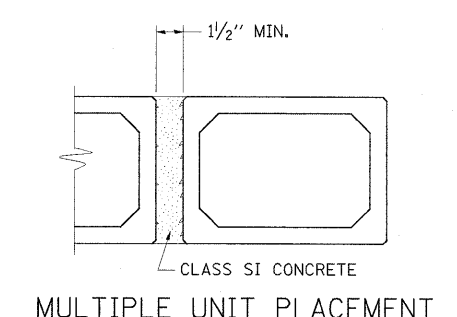
LOCATION OF LIFTING HOLES MAY BE VARIED AS NEEDED TO CLEAR REINFORCEMENT.



DETAIL A
(TYP. INLET END)

DETAIL B
(TYP. OUTLET END)

NOTE: INLET AND OUTLET ENDS SHALL BE COMPATIBLE.
*THE D DIMENSION SHALL CONFORM TO THE MANUFACTURER'S STANDARDS.



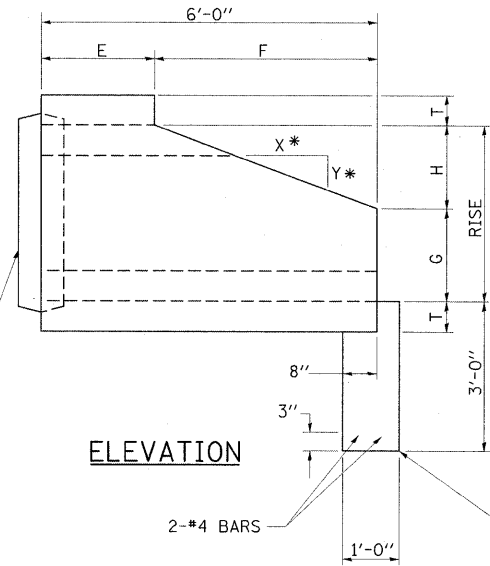
ELEVATION

CROSS SECTION

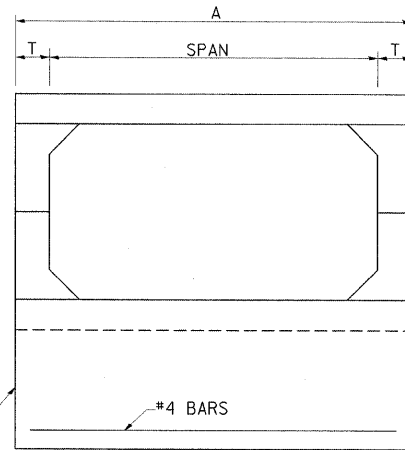
DETAIL OF PRECAST CONCRETE BOX CULVERT END SECTION

DIMENSIONS **

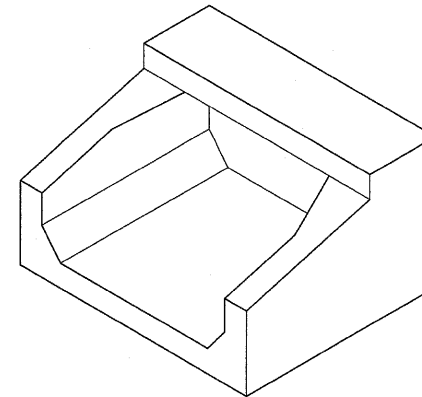
SPAN X RISE	T (INCHES)	A (FT.-IN.)	B (FT.-IN.)	C (INCHES)	E (FT.-IN.)	F (FT.-IN.)	G (FT.-IN.)	H (FT.-IN.)	SLOPE (X:Y)
2' X 2'	4	2-8	2-8	4	3-0	3-0	1-0	1-0	3:1
3' X 2'	4	3-8	2-8	4	3-0	3-0	1-0	1-0	3:1
3' X 3'	4	3-8	3-8	4	2-0	4-0	1-8	1-4	3:1
4' X 2'	5	4-10	2-10	5	3-0	3-0	1-0	1-0	3:1
4' X 3'	5	4-10	3-10	5	2-0	4-0	1-8	1-4	3:1
4' X 4'	5	4-10	4-10	5	2-0	4-0	2-0	2-0	2:1
5' X 2'	6	6-0	3-0	6	3-0	3-0	1-0	1-0	3:1
5' X 3'	6	6-0	4-0	6	2-0	4-0	1-8	1-4	3:1
5' X 4'	6	6-0	5-0	6	2-0	4-0	2-0	2-0	2:1
5' X 5'	6	6-0	6-0	6					
6' X 2'	7	7-2	3-2	7	3-0	3-0	1-0	1-0	3:1
6' X 3'	7	7-2	4-2	7	2-0	4-0	1-8	1-4	3:1
6' X 4'	7	7-2	5-2	7	2-0	4-0	2-0	2-0	2:1
6' X 5'	7	7-2	6-2	7	2-0	4-0	3-0	2-0	2:1
6' X 6'	7	7-2	7-2	7	2-0	4-0	4-0	2-0	2:1
7' X 4'	8	8-4	5-4	8	2-0	4-0	2-0	2-0	2:1
7' X 5'	8	8-4	6-4	8					
7' X 6'	8	8-4	7-4	8					
7' X 7'	8	8-4	8-4	8					
8' X 4'	8	9-4	5-4	8	2-0	4-0	2-0	2-0	2:1
8' X 5'	8	9-4	6-4	8					
8' X 6'	8	9-4	7-4	8					
8' X 7'	8	9-4	8-4	8					
8' X 8'	8	9-4	9-4	8					
9' X 5'	9	10-6	6-6	9					
9' X 6'	9	10-6	7-6	9					
9' X 7'	9	10-6	8-6	9					
9' X 8'	9	10-6	9-6	9					
9' X 9'	9	10-6	10-6	9					
10' X 5'	10	11-8	6-8	10					
10' X 6'	10	11-8	7-8	10					
10' X 7'	10	11-8	8-8	10					
10' X 8'	10	11-8	9-8	10					
10' X 9'	10	11-8	10-8	10					
10' X 10'	10	11-8	11-8	10					
11' X 4'	11	12-10	5-10	11					
11' X 6'	11	12-10	7-10	11					
11' X 8'	11	12-10	9-10	11					
11' X 10'	11	12-10	11-10	11					
11' X 11'	11	12-10	12-10	11					
12' X 4'	12	14-0	6-0	12					
12' X 6'	12	14-0	8-0	12					
12' X 8'	12	14-0	10-0	12					
12' X 10'	12	14-0	12-0	12					
12' X 12'	12	14-0	14-0	12					



ELEVATION

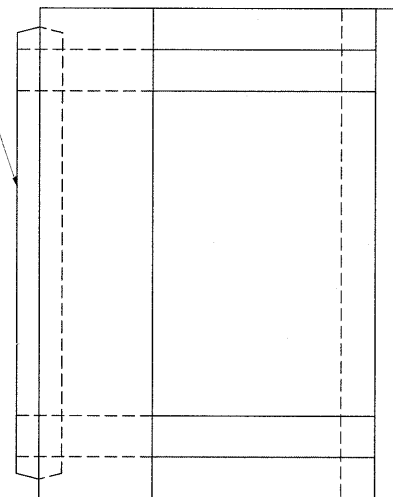


END VIEW

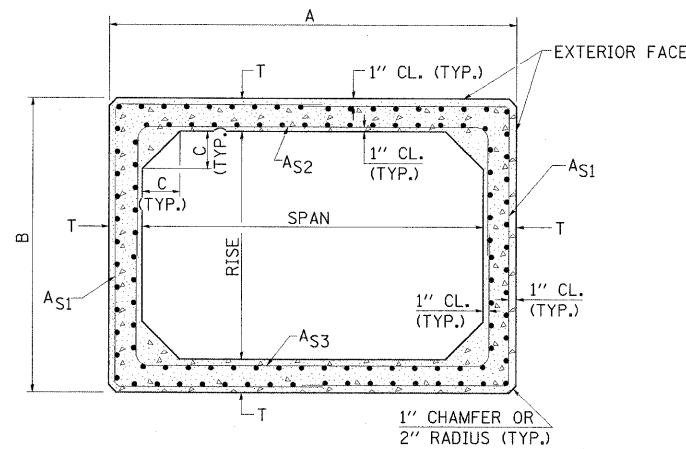


ISOMETRIC

END CONNECTION TO FIT PRECAST BOX CULVERT (BELL OR SPIGOT MAY BE OMITTED WHEN COLLARING TO AN EXISTING BOX OR HEADWALL.)



PLAN



CROSS SECTION

**** NOTE:**

THE DIMENSIONS INDICATED ARE FOR END SECTIONS THAT ARE TO BE USED WITH PRECAST BOX CULVERT SECTIONS DESIGNED FOR 2' OR MORE OF FILL. THE DIMENSIONS MUST BE MODIFIED FOR THE END SECTION TO BE COMPATIBLE WITH PRECAST CULVERT SECTIONS DESIGNED FOR LESS THAN 2' OF FILL.

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04 OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 1055.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS AS1, AS2, & AS3 DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M259. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO M55-81.

REVISIONS	
DRAWN	9-8-89
REVISED	3-27-90
REVISED	6-14-94
REVISED	8-16-94
REVISED	01-10-07
RESIZED	5-7-08

FILE NAME = ... \0978182-sht-details.dgn

USER NAME = Rob Heady
PLOT SCALE = 50.0000 ' / IN.
PLOT DATE = 10/7/2011

DESIGNED -
DRAWN -
CHECKED -
DATE - 10/07/11

REVISED -
REVISED -
REVISED -
REVISED -

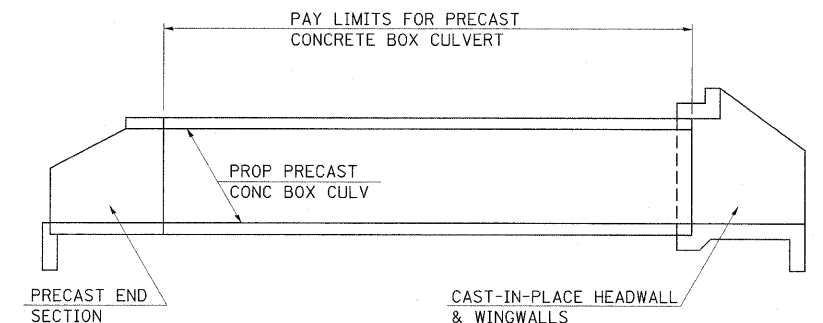
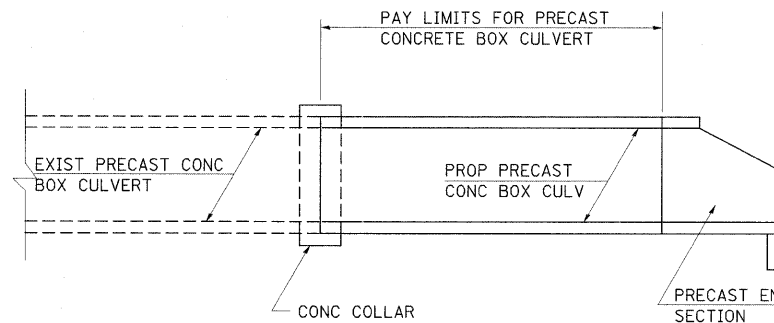
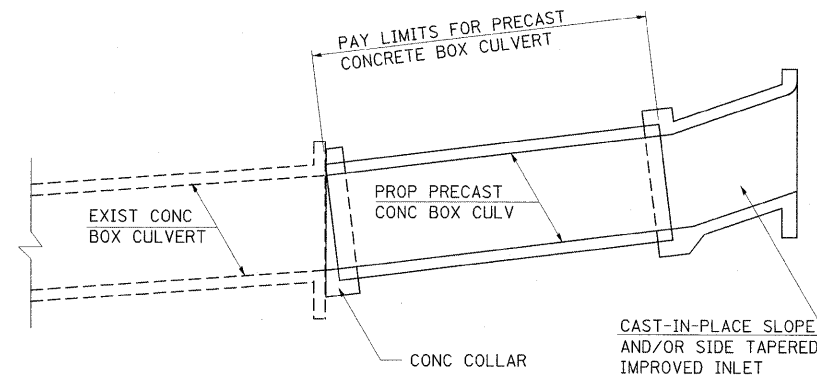
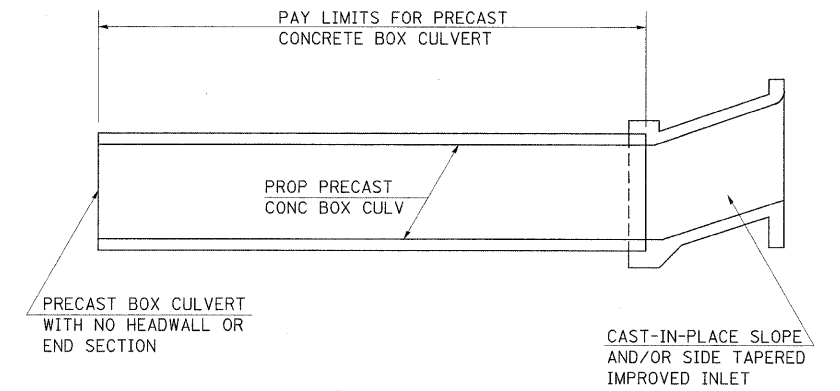
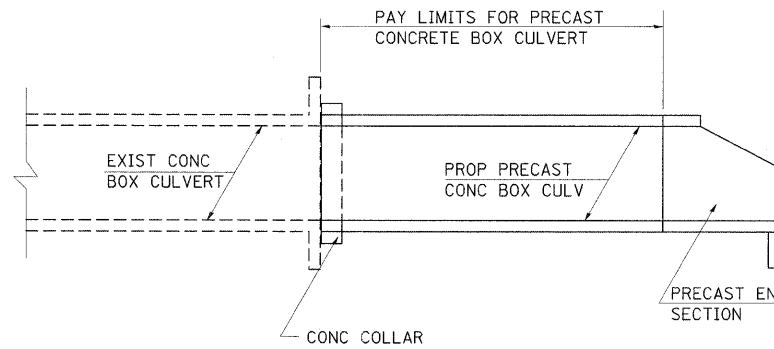
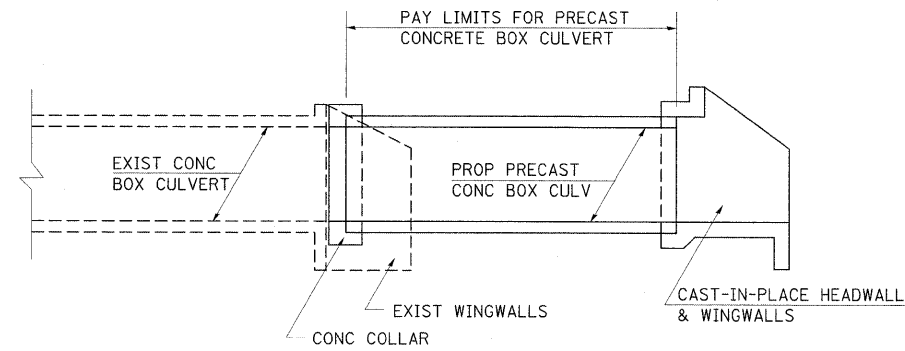
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT DETAILS
I-57 AND IL ROUTE 13**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 01-6-2H8K-2, HB-1,2; 01-1R-1		WILLIAMSON	968	720
* F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182	
ILLINOIS FED. AID PROJECT				

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

PAYMENT LIMITS FOR PRECAST CONCRETE BOX CULVERTS



CULVERT EXTENSIONS

NEW CULVERTS

NOTES:

WHEN PRECAST CONCRETE BOX CULVERTS ARE SPECIFIED ON THE PLANS, THEY WILL BE MEASURED BY THE FOOT. THE OVERALL LENGTH SHALL BE MEASURED OUT-TO-OUT OF THE PRECAST SEGMENTS ALONG THE CENTERLINE OF THE CULVERT. THE BOX CULVERT END SECTIONS WILL BE MEASURED AS EACH. CAST-IN-PLACE COLLARS WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PRECAST CONCRETE BOX CULVERT. SEE ARTICLE 540.08 OF THE STANDARD SPECIFICATIONS ADOPTED JANUARY 1, 2002.

THE TERM "BOX CULVERT END SECTION" AS USED HEREIN SHALL BE DEFINED AS EITHER PRECAST END SECTIONS OR CAST-IN-PLACE HEADWALLS AND WINGWALLS CONSTRUCTED AS SHOWN IN THE PLANS.

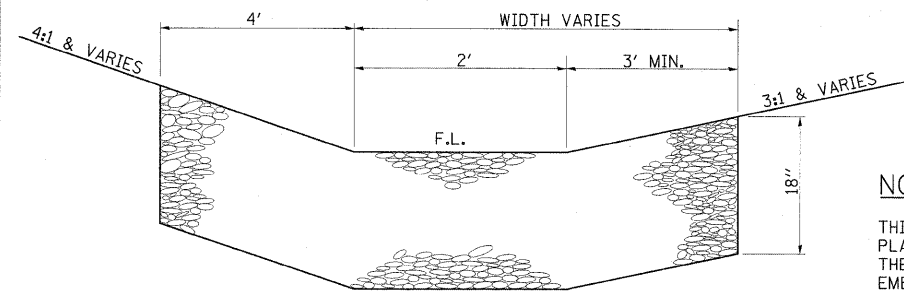
THROUGHOUT THESE PLANS, QUANTITIES SHOWN FOR CLASS SI CONCRETE AND REBARS TO BE USED IN COLLARS, HEADWALLS, WINGWALLS OR IMPROVED INLETS FOR PRECAST CONCRETE BOX CULVERTS ARE PROVIDED FOR INFORMATION AND BIDDING ONLY, AND SHALL NOT BE PAID FOR SEPERATELY.

REVISIONS			
DRAWN	8-14-90	REVISED	8-16-94
REVISED	7-19-91	RESIZED	5-6-08
REVISED	3-11-92		
REVISED	12-9-92		

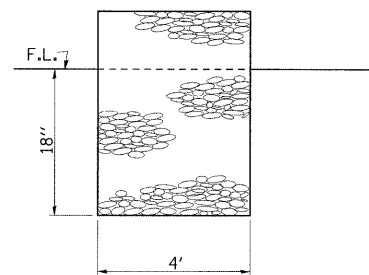
STD. 9-81

FILE NAME = ... \D978182-sht-details.dgn	USER NAME = Rob Heady	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT DETAILS I-57 AND IL ROUTE 13	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,0000' / IN.	DRAWN -	REVISED -			*	(X1-6-2)HBK-2, HB-1,2; (IX-1)R-1	WILLIAMSON	968	721
	PLOT DATE = 10/7/2011	CHECKED -	REVISED -		SCALE: N/A		* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182		
		DATE = 10/07/11	REVISED -		SHEET NO. OF SHEETS	STA.				
ILLINOIS FED. AID PROJECT										

TYPICAL DETAIL OF STONE RIPRAP DITCH CHECK



FRONT VIEW



SIDE VIEW

NOTES

THIS WORK INCLUDES THE EARTH EXCAVATION REQUIRED TO PLACE THE RIPRAP AS SHOWN. THE MATERIAL RESULTING FROM THE EARTH EXCAVATION SHALL BE PLACED IN THE ROADWAY EMBANKMENT, OR WASTED AS DIRECTED BY THE ENGINEER. THE EARTHWORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE DITCH CHECKS.

THE RIPRAP DITCH CHECKS SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THE INTENT IS FOR THE DITCH CHECKS TO BE CONSTRUCTED ON SPACINGS OF APPROXIMATELY 150' (CENTER TO CENTER). CONSTRUCTION OF THE STONE RIPRAP DITCH

CHECKS SHALL CONFORM TO THE REQUIREMENTS FOR CLASS A4 RIPRAP AS INDICATED IN SECTION 281 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR **STONE RIPRAP DITCH CHECKS**, WHICH PRICE SHALL INCLUDE ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK IN PLACE AS SHOWN.

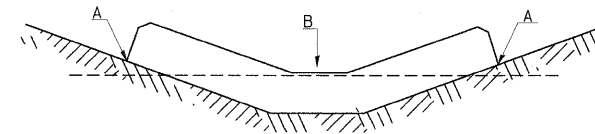
FILTER FABRIC AND BEDDING MATERIAL AS SPECIFIED IN SECTION 281 OF THE STANDARD SPECIFICATIONS WILL NOT BE REQUIRED.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
RESIZED	5-8-08

STD. 9-11

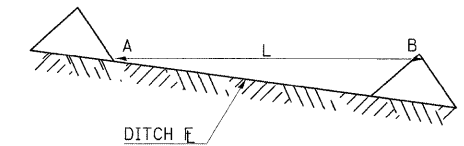
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS



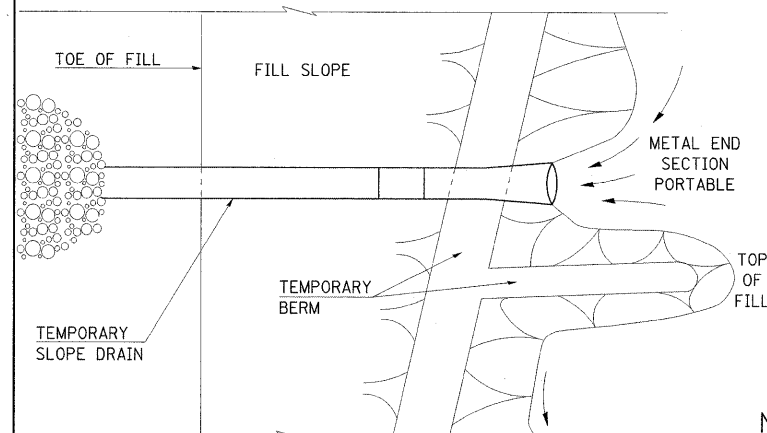
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION
B = THE LOW POINT IN CENTER OF CHECK

REVISIONS

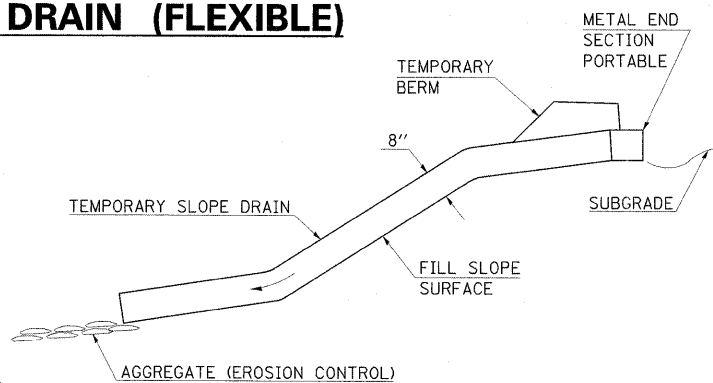
DRAWN	9-01-99
REVISED	10-3-01
RESIZED	5-8-08
REVISED	05-04-10

STD. 9-108

TEMPORARY SLOPE DRAIN (FLEXIBLE)



PLAN VIEW



END VIEW

NOTES

PIPE FOR USE AS TEMPORARY SLOPE DRAINS MAY BE EITHER A METAL OR PLASTIC CULVERT PIPE THAT CONFORMS TO SECTION 542.02 OF THE STANDARD SPECIFICATIONS AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PIPE DRAINS 8" (SPECIAL). IN SOME CASES IT MAY BE NECESSARY TO SECURE PIPE TO THE FILL SLOPE TO OBTAIN PROPER ANCHORAGE. MATERIALS USED FOR THIS PURPOSE SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PIPE.

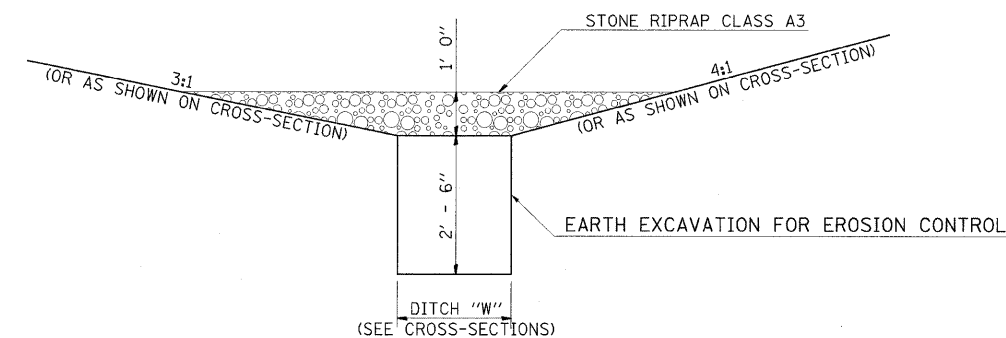
METAL END SECTIONS SHALL BE INSTALLED AT THE INLET END AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR METAL END SECTIONS 8".

TEMPORARY RIPRAP AT THE OUTLET END MAY BE END DUMPED AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR AGGREGATE (EROSION CONTROL).

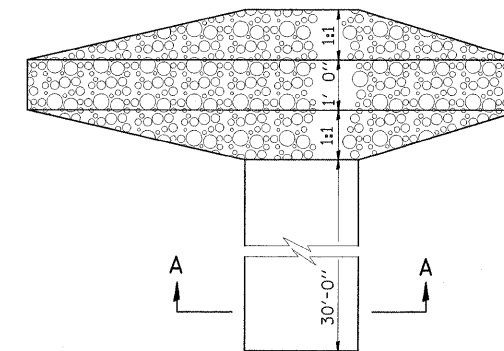
REVISIONS	
DRAWN	6-11-96
RESIZED	5-8-08

STD. 9-105

DETAIL OF TEMPORARY SEDIMENT BASIN



SECTION A-A



PLAN

NOTES

- STONE RIPRAP CLASS A3 USED AS SHOWN WILL BE PAID FOR AS AGGREGATE (EROSION CONTROL), TON
- THE AGGREGATE (EROSION CONTROL) MAY BE REUSED TO LINE DITCH AS DIRECTED BY THE ENGINEER AFTER ALL PERMANENT SEEDING IS IN PLACE.

STD. 9-117

REVISIONS	
DRAWN	8-09-07
RESIZED	5-8-08

FILE NAME = ... \D978182-sht-details.dgn

USER NAME = Rob Heady

DESIGNED -

REVISED -

PLOT SCALE = 50.0000' / IN.

DRAWN -

REVISED -

PLOT DATE = 10/7/2011

CHECKED -

REVISED -

DATE = 10/07/11

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT DETAILS
I-57 AND IL ROUTE 13

SCALE: N/A

SHEET NO. OF

SHEETS

STA.

TO STA.

F.A. RTE.

SECTION

COUNTY

TOTAL SHEETS SHEET NO.

* (X1-6-2)HBK-2, HB-1,2; (IX-1)R-1

WILLIAMSON

968

722

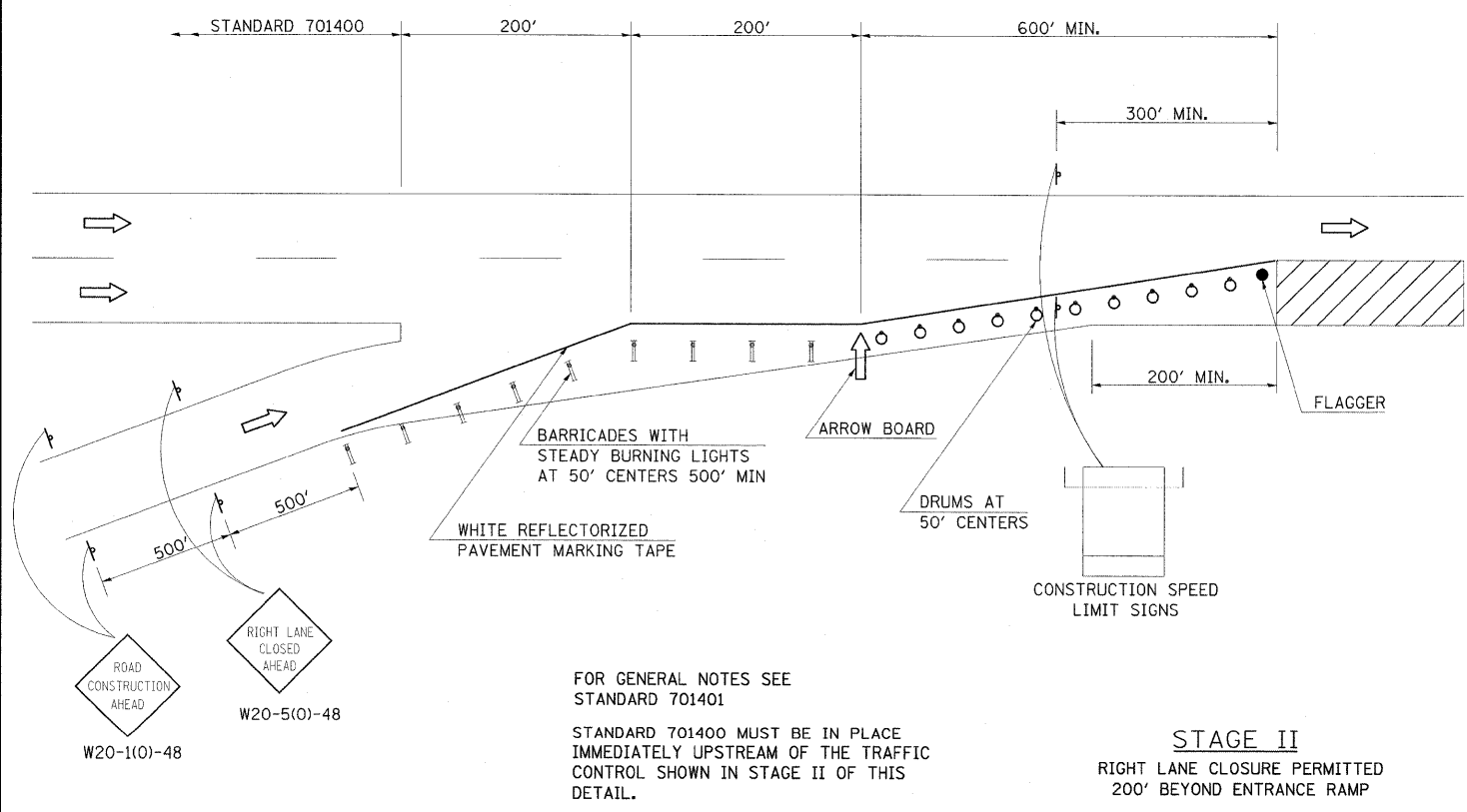
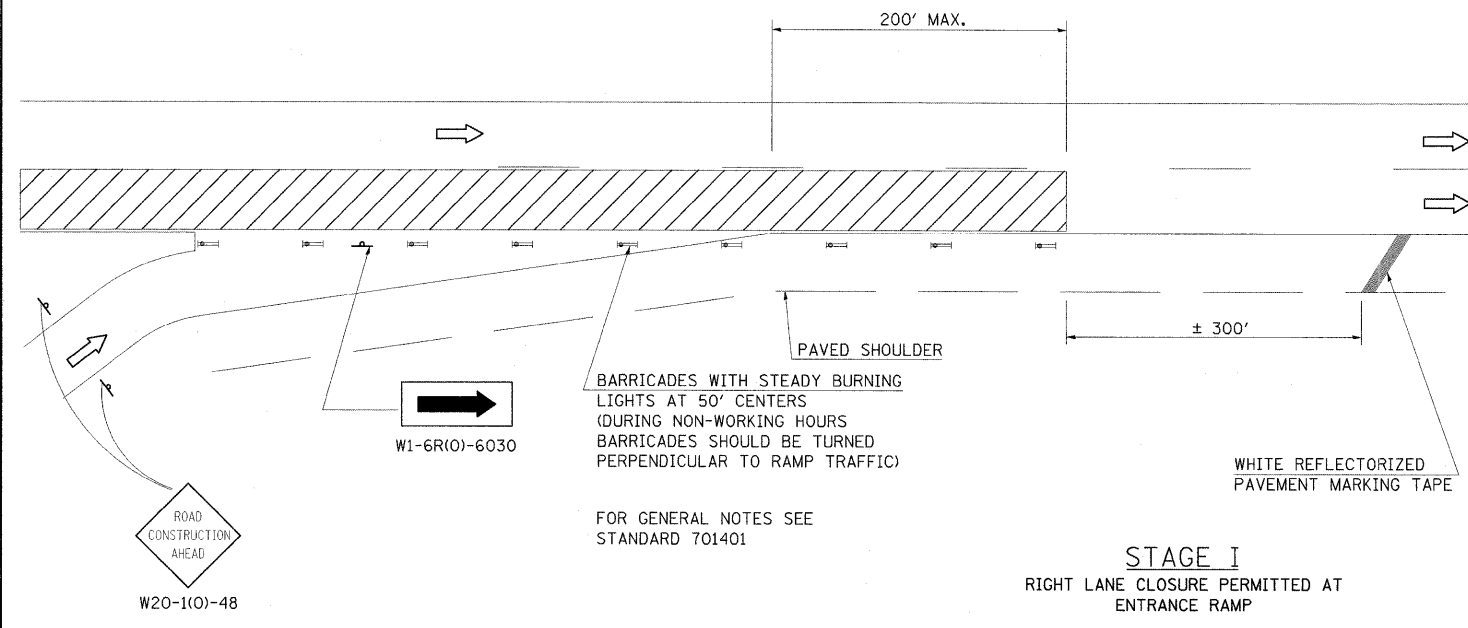
* F.A.I. 57 AND F.A.P. 331

CONTRACT NO.

78182

ILLINOIS FED. AID PROJECT

DETAIL OF TRAFFIC CONTROL AT ENTRANCE RAMPS

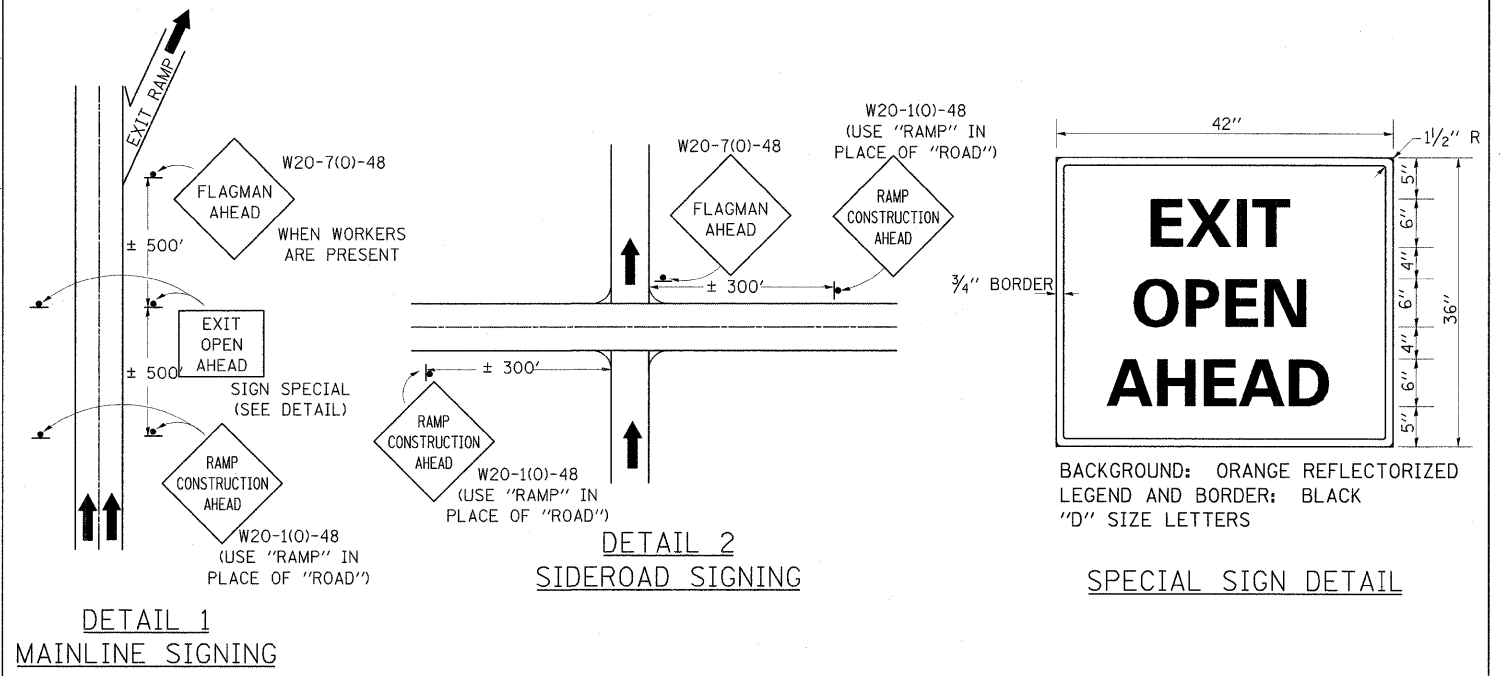


STANDARD 701400

REVISIONS	
DRAWN	6-23-89
REVISED	12-17-01
REVISED	3-27-08
REVISED	

STD. 9-43

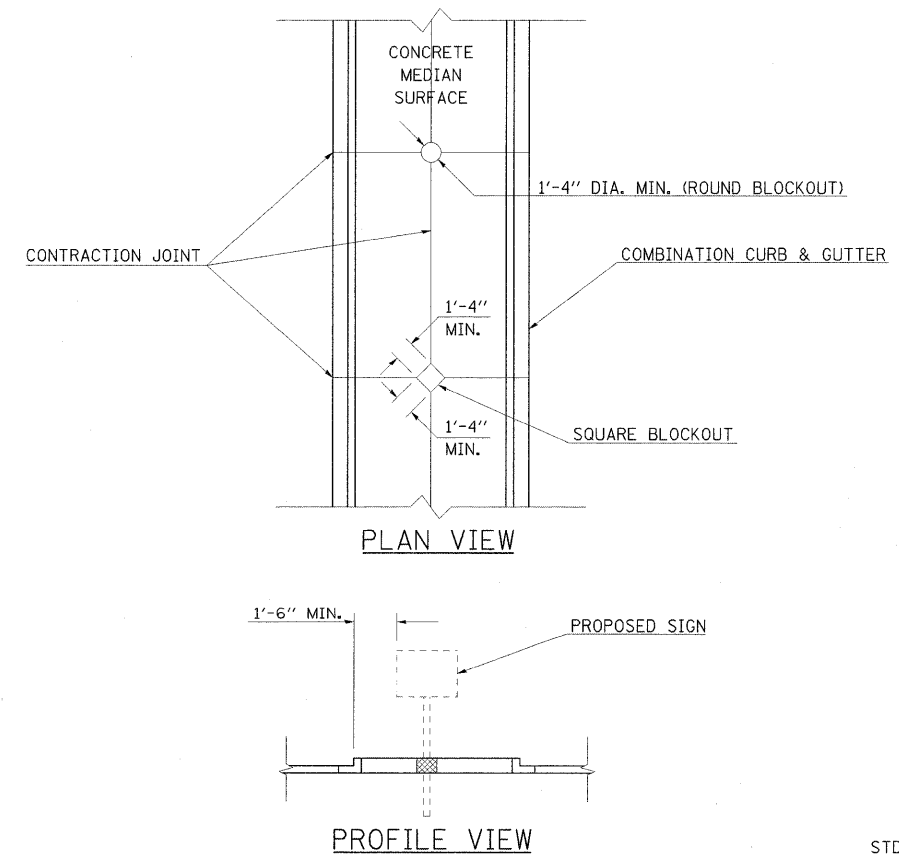
DETAILS OF SIGNING FOR TRAFFIC CONTROL AT RAMPS



STANDARD 9-82

REVISIONS	
DRAWN	9-7-90
REVISED	8-22-94
REVISED	5-7-08
REVISED	

SIGN POST BLOCKOUT



STANDARD 9-107

REVISIONS	
DRAWN	4-5-99
REVISED	5-7-08
REVISED	

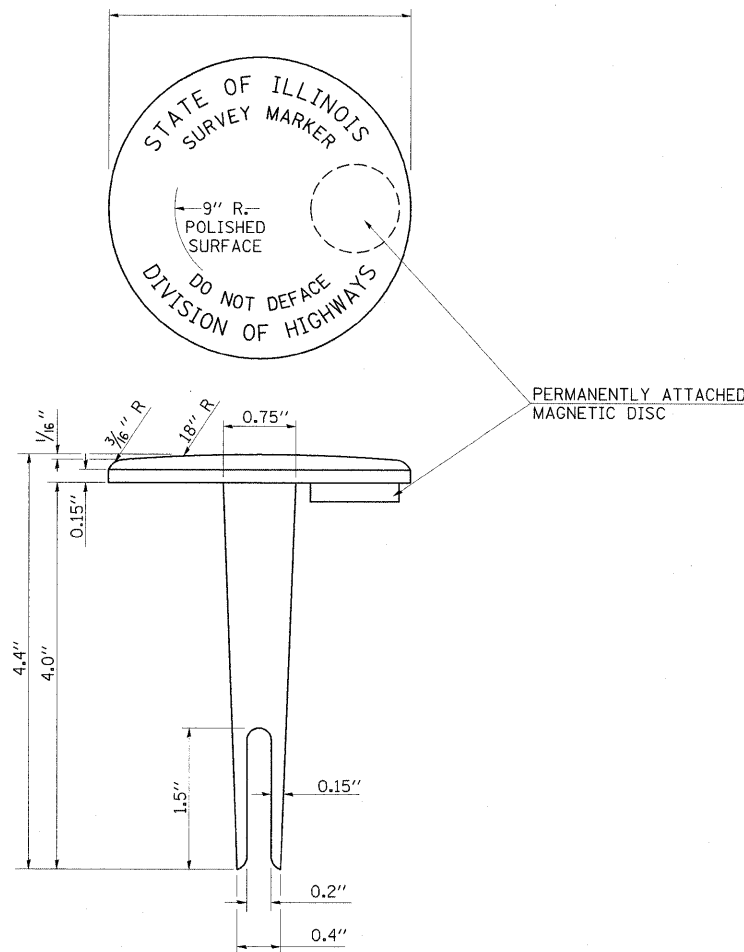
FILE NAME = ... \D978182-sht-details.dgn	USER NAME = Rob Heady	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - 10/07/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

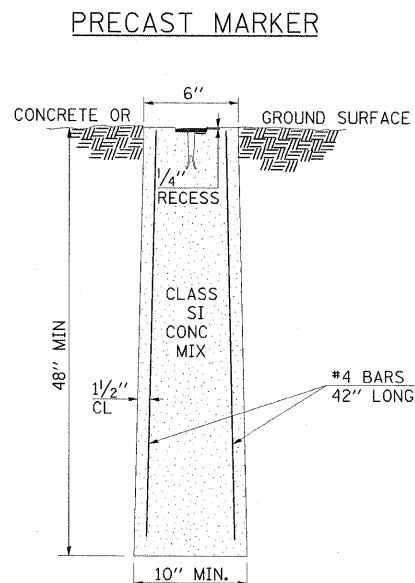
DISTRICT DETAILS I-57 AND IL ROUTE 13			
SCALE: N/A	SHEET NO. OF SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* I-57	HB-1,2; IX-1R-1	WILLIAMSON	968	723
* F.A.I. 57 AND F.A.P. 331				CONTRACT NO. 78182
ILLINOIS FED. AID PROJECT				

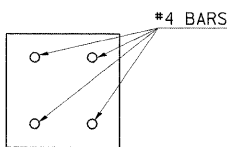
DETAILS OF PERMANENT SURVEY MARKERS



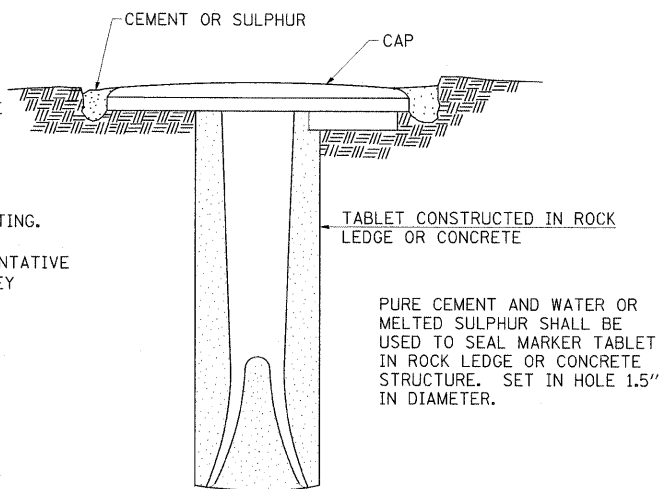
TABLET - BRONZE OR ALUMINUM



SECTION



PLAN



PURE CEMENT AND WATER OR MELTED SULPHUR SHALL BE USED TO SEAL MARKER TABLET IN ROCK LEDGE OR CONCRETE STRUCTURE. SET IN HOLE 1.5" IN DIAMETER.

NOTES

1. ACTUAL LOCATIONS TO BE DETERMINED BY THE ENGINEER AND A REPRESENTATIVE FROM THE BUREAU OF DESIGN AFTER GRADING IS COMPLETE AND SIGHT DISTANCE CAN BE DETERMINED BETWEEN SURVEY MARKER LOCATIONS.
2. THE MARKERS SHALL BE PRECAST AND SHALL BE INSTALLED IN A WORKMANLIKE MANNER IN ORDER THAT THERE BE NO FUTURE SETTLEMENT OR HORIZONTAL SHIFTING. THE MONUMENT SHALL BE PLACED IN A WAY THAT THE SURVEY POINT WILL FALL WITHIN THE PORTION OF THE PLAQUE PROVIDED FOR THAT PURPOSE. A REPRESENTATIVE FROM THE BUREAU OF PROGRAM DEVELOPMENT WILL LOCATE AND ETCH THE SURVEY POINT ON THE TABLET.
3. THE CONTRACT UNIT PRICE FOR PERMANENT SURVEY MARKERS WILL BE PAYMENT IN FULL FOR FURNISHING AND INSTALLING THE MARKER.

TOTAL QUANTITY FOR PERMANENT SURVEY MARKERS=

DESIGN NOTE: 2000' SPACING DESIRABLE FOR RURAL
1000' SPACING DESIRABLE FOR URBAN

REVISIONS	
REDRAWN	2-15-89
REVISED	5-11-89
REVISED	8-18-94
REVISED	10-3-94
REVISED	3-27-08

STD. 9-10

ILLINOIS STANDARD

W8-1106

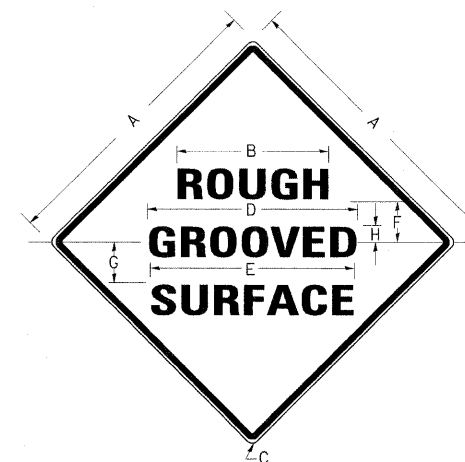
COLORS:

LEGEND AND BORDER- BLACK NON-REFLECTORIZED
BACKGROUND- ORANGE REFLECTORIZED

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
48X48	48.0	24.1	3.0	34.0	33.0	6.0	13.0	3.5

SIGN SIZE	SERIES LINES			MAR GIN	BOR DER	BLANK STD.
	1	2	3			
48X48	7C	7C	7C	0.8	1.2	B4-48D

ALL DIMENSIONS IN INCHES



NOTES:

PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED, THE CONTRACTOR SHALL HAVE ERECTED "ROUGH GROOVED SURFACE" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "ROUGH GROOVED SURFACE" SIGNS UNTIL THE COLDMILLED SURFACE IS COVERED WITH LEVELING BINDER OR SURFACE COURSE.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

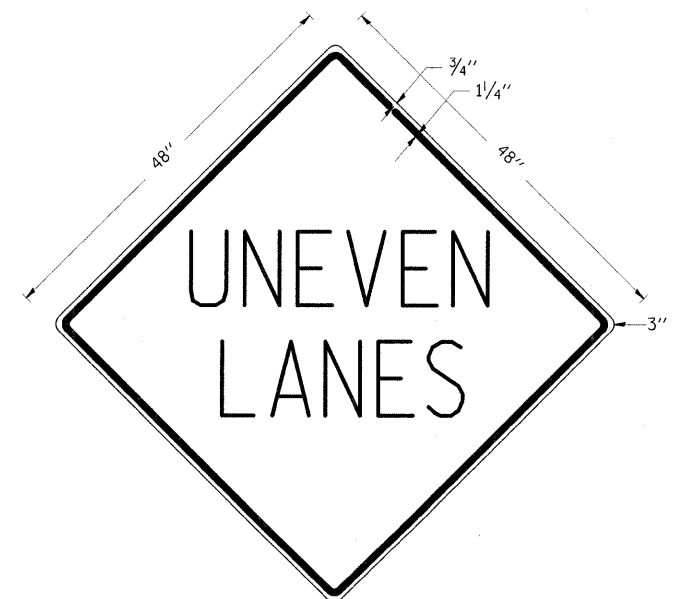
THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

REVISIONS	
REDRAWN	2-15-89
REVISED	4-6-93
REVISED	3-27-08
REVISED	

STD. 9-39

UNEVEN LANES SIGN

W8-11 (48" x 48")



COLORS:

LEGEND AND BORDER - BLACK NON-REFLECTORIZED
BACKGROUND - ORANGE REFLECTORIZED

NOTE: PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED OR BEFORE RESURFACING OPERATIONS BEGIN, THE CONTRACTOR SHALL HAVE ERECTED "UNEVEN PAVEMENT" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "UNEVEN PAVEMENT" SIGNS UNTIL THE RESURFACING OPERATIONS ARE COMPLETED.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

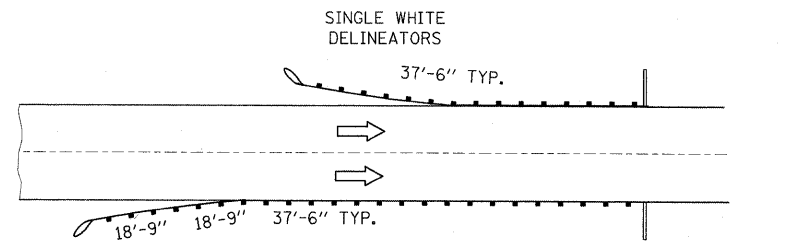
THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

REVISIONS	
REDRAWN	2-15-89
REVISED	4-6-93
REVISED	7-23-04
REVISED	5-8-08

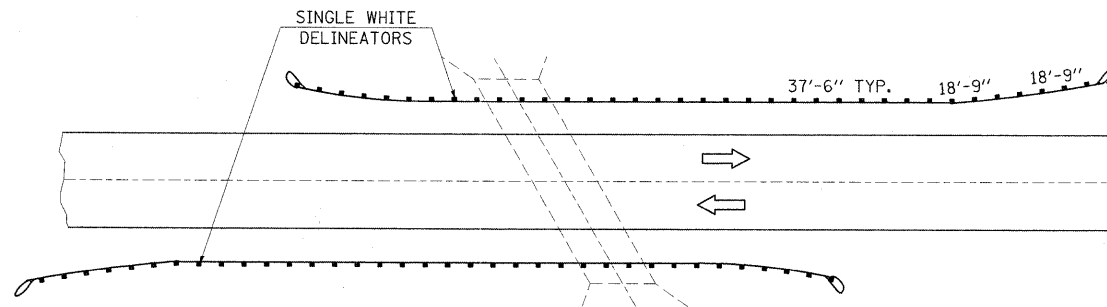
STD. 9-41

FILE NAME = ... \D978182-sht-details.dgn	USER NAME = Rob Heady	DESIGNED -	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT DETAILS I-57 AND IL ROUTE 13	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISIONS -			* (X1-6-2)HRK-2, HB-1,2; (IX-1)R-1	WILLIAMSON	968	724	
		CHECKED -	REVISIONS -			* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
		DATE - 10/07/11	REVISIONS -			ILLINOIS FED. AID PROJECT				

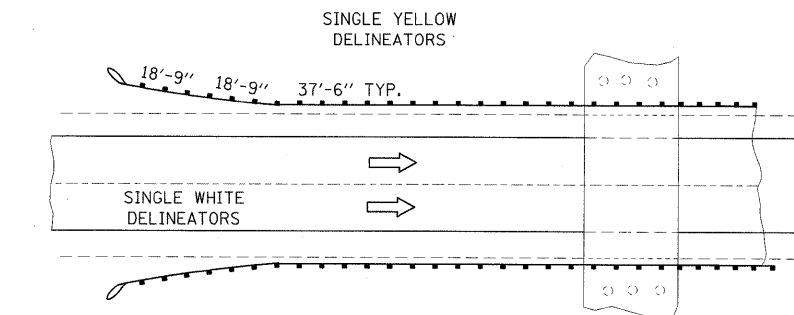
TYPICAL GUARDRAIL DELINEATION



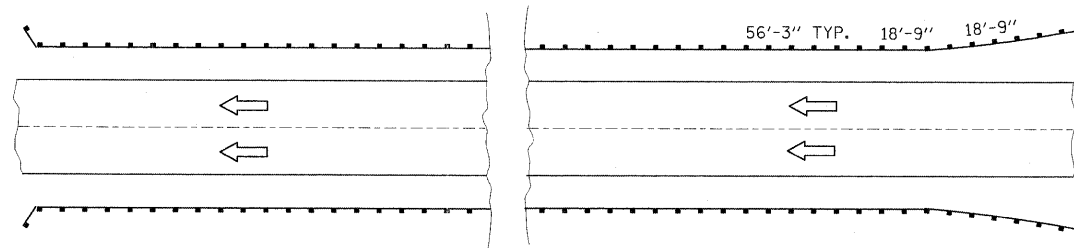
BRIDGE APPROACH INSTALLATION (TWO-WAY TRAFFIC)



ROADSIDE OBSTACLE INSTALLATION - LENGTH 250' OR LESS
(TWO WAY TRAFFIC)

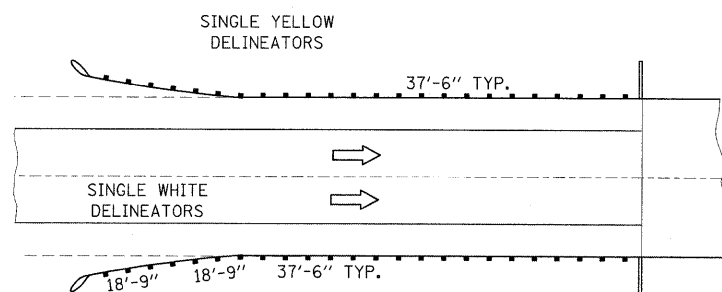


ROADSIDE OBSTACLE INSTALLATION - LENGTH 250' OR LESS
(ONE WAY TRAFFIC)

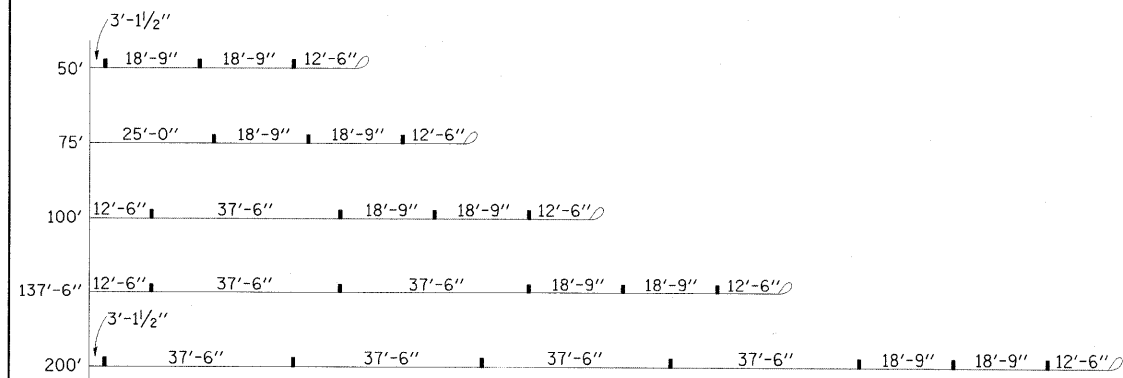


EMBANKMENT OR ROADSIDE OBSTACLE INSTALLATION-
LENGTH GREATER THAN 250'

(ONE-WAY TRAFFIC SHOWN DELINEATOR SPACING FOR TWO-TRAFFIC SIMILAR.
DELINEATOR COLOR WILL BE THE SAME AS THE ADJACENT PAVEMENT EDGE MARKING)



BRIDGE APPROACH INSTALLATION (ONE-WAY TRAFFIC)



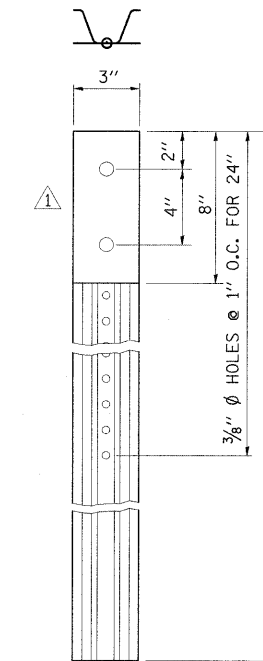
GRAPHICS SHOWING SPACING OF GUARDRAIL DELINEATORS
AT SOME COMMONLY USED BRIDGE APPROACHES

GENERAL NOTES

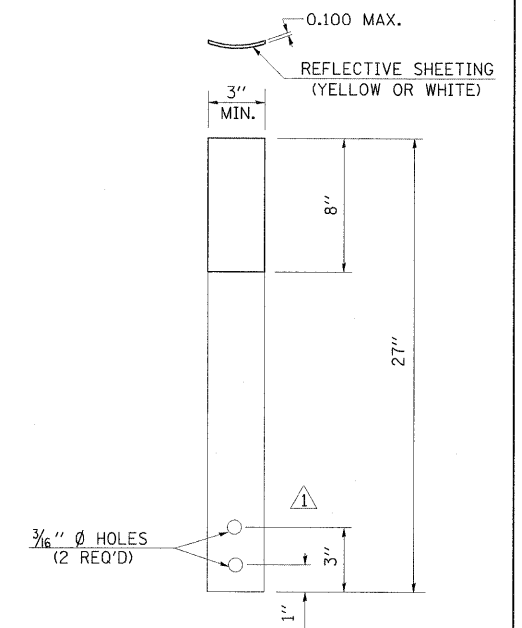
- THE UNIT PRICE OF DELINEATOR INCLUDES: COST(S) OF DELINEATOR FACE(S), POST, HARDWARE, AND INSTALLATION.
- DELINEATOR FACE WILL BE ENCAPSULATED LENS REFLECTIVE SHEETING.
- DELINEATORS ON STEEL POSTS
 - DELINEATOR FACE SHALL BE PLACED ON 0.06" SHEET ALUMINUM OR 14 GAGE GALVANIZED SHEET STEEL
 - DELINEATOR POSTS SHALL BE GALVANIZED STEEL U-SECTION POSTS (2.0 TO 2.5 LBS PER FT.). THE POSTS ARE TO BE FABRICATED BEFORE THE METAL IS GALVANIZED. RADIUS IN BENDS OF POST CROSS-SECTION NOT TO EXCEED 1/4" INCH FOR HOT ROLLED SECTION.
 - WHEN COVER OVER A DRAINAGE STRUCTURE IS LESS THAN THE NORMAL DELINEATOR POST DEPTH, THE DELINEATOR POSTS WILL BE FIELD CUT, DRILLED AND FASTENED TO THE BACK OF THE GUARDRAIL POSTS WITH (2) 1/4" LAG SCREWS.
- DELINEATORS ON FLEXIBLE POSTS
 - DELINEATOR POSTS SHALL BE WHITE IN COLOR.
 - THE DELINEATOR POSTS WILL BE SECURED TO METAL GUARDRAIL POSTS BY TWO HUCK RIVETS (PIN #CGLB-R6-7C; COLLAR #3LCW-2R6-6) OR EQUIVALENT. A 3/8" GALVANIZED FLANGED NUT WILL BE PLACED BETWEEN THE DELINEATOR POST AND GUARDRAIL POST ON EACH RIVET. HOLES IN THE STEEL GUARDRAIL POSTS SHALL BE 1/4" DIAMETER AND MAY BE SHOP FABRICATED OR FIELD DRILLED.

REVISIONS
DRAWN 5-11-97
REVISED 01-10-07
RESIZED 05-06-08

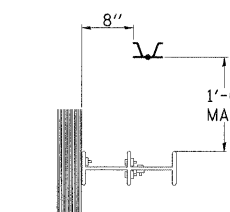
STD. 9-42



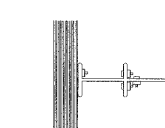
DETAIL OF A SINGLE
WHITE OR SINGLE YELLOW
DELINEATOR



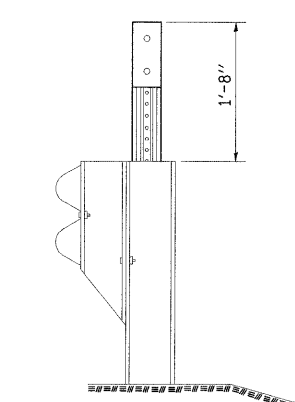
DETAIL OF FLEXIBLE
GUARDRAIL DELINEATOR



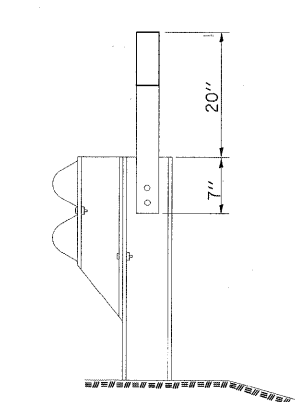
PLAN VIEW



PLAN VIEW



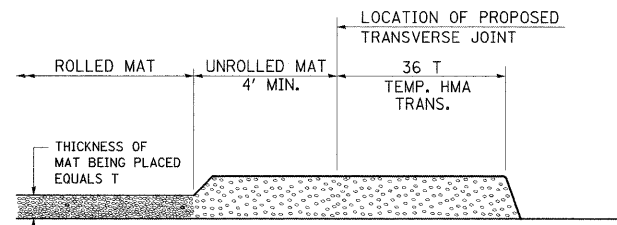
TYPICAL STEEL POST
GUARDRAIL DELINEATOR
INSTALLATION



TYPICAL FLEXIBLE
GUARDRAIL DELINEATOR
INSTALLATION

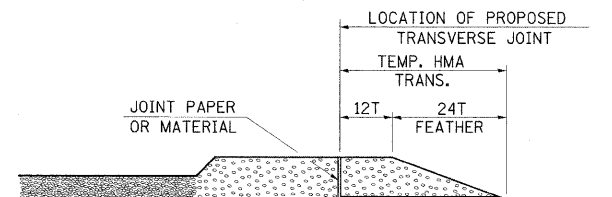
FILE NAME = ...D978182-sht-details.dgn	USER NAME = Rob Heady	DESIGNED -	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT DETAILS I-57 AND IL ROUTE 13	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISIONS -			* (X1-6-2)HBK-2, HB-1,2; (X1-1)R-1	WILLIAMSON	968	725	
	PLOT DATE = 10/7/2011	CHECKED -	REVISIONS -			* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
		DATE = 10/07/11	REVISIONS -			(ILLINOIS) FED. AID PROJECT				

TEMPORARY HOT-MIX ASPHALT TRANSITIONS



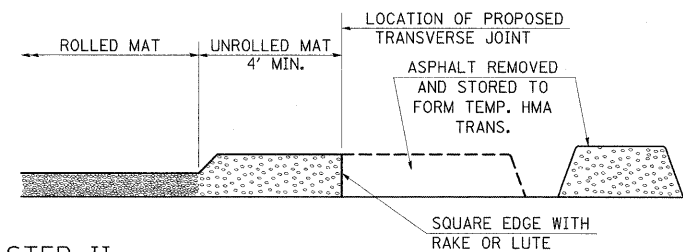
STEP I

1. PLACE HOT-MIX ASPHALT MAT, LENGTH 36 TIMES THE THICKNESS OF THE MAT BEING PLACED PAST THE PROPOSED TRANSVERSE JOINT LOCATION USING NORMAL OPERATING PROCEDURES.
2. EXTREME CARE SHOULD BE TAKEN TO MAINTAIN ENOUGH MATERIAL IN FRONT OF THE SCREED TO MAINTAIN REQUIRED PAVING DEPTH.



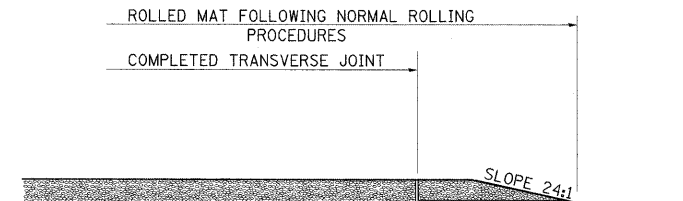
STEP III

1. JOINT PAPER OR OTHER PRESELECTED JOINT MATERIAL IS THEN PLACED IN THE CLEARED AREA AND THE EXCESS ASPHALT USED TO HAND FORM A TRANSITION TO THE DIMENSIONS SHOWN ABOVE.
2. NOTE THAT IN CONSTRUCTING THE TRANSITION, THE MAT DEPTH IS CONTINUED AS PART OF THE TRANSITION BEFORE FORMING THE FEATHER.



STEP II

1. MOVE THE PAVER OUT OF THE WAY AND REMOVE THE ASPHALT FROM THE AREA OF THE PROPOSED TEMPORARY HOT-MIX ASPHALT TRANSITION.
2. SQUARE UP THE END OF THE MAT WITH A RAKE OR LUTE.
3. NOTE THAT THE MAT WITHIN 4' OF THE END OF JOINT IS NOT TO BE ROLLED AT THIS TIME.



STEP IV

1. COMPLETE TEMPORARY TRANSITION BY ROLLING.
2. TO RESUME PAVING, AT THE JOINT, REMOVE TEMPORARY TRANSITION AND DISPOSE OF THE MATERIAL ACCORDING TO ART. 202.03 OF THE STD. SPECS. (COST INCLUDED IN THE CONTRACT).
3. CONSTRUCTING THE TEMPORARY TRANSITIONS WILL NOT BE PAID FOR SEPARATELY IN ACCORDANCE WITH ARTICLE 406.14 OF THE STANDARD SPECIFICATIONS.

STD. 9-26

REVISIONS	
REDRAWN	2-15-89
REVISED	8-16-94
REVISED	01-09-07
RESIZED	05-8-08

STD. 9-92

REVISIONS	
REDRAWN	5-13-02
REVISED	10-26-05
REVISED	
REVISED	

DETAIL OF DETECTOR LOOPS

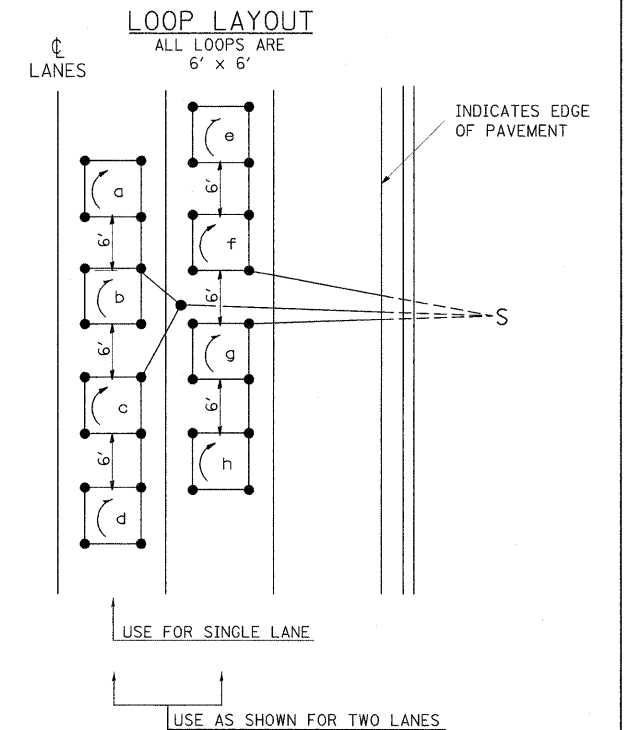
NOTES

(APPLIES TO 6' x 6' LOOPS ONLY)

1. THE DETECTOR LOOPS SHALL BE TYPE I. EACH DETECTOR LOOP SHALL HAVE 3 TURNS OF LOOP WIRE AND BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 886 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. BEGINNING LEAD WIRES SHALL BE CONNECTED TO THE BLACK LEAD AND THE ENDING LEAD WIRES SHALL BE CONNECTED TO THE WHITE LEAD OF THE TWIN TWISTED FEED CABLES AT THE SPLICE POINT.
3. WHERE THE LOOPS ARE INSTALLED PRIOR TO RESURFACING, THE LOOP CORNERS SHALL BE DIAGONALLY CUT.

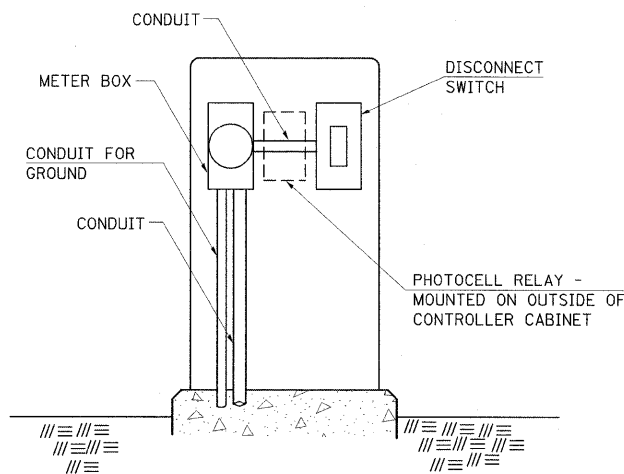
LOOP LEGEND

- () CLOCKWISE ROTATION FOR LOOP WIRES
- S INDICATES SPLICE POINT FOR DETECTOR LOOP LEAD
- INDICATES 2" CORE-DRILL



DETAIL 6' x 6' DETECTOR LOOPS

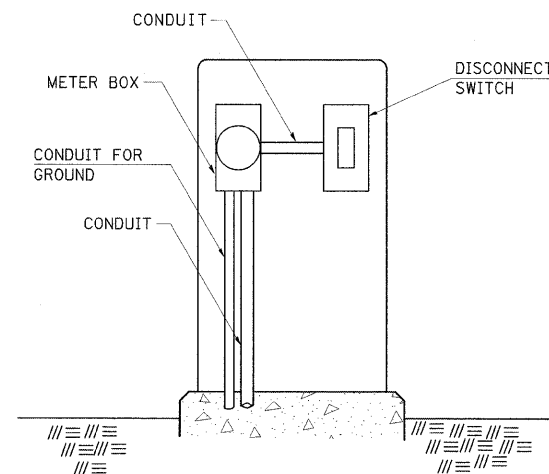
SERVICE INSTALLATION DETAILS



SERVICE INSTALLATION (SPECIAL)
WITH PHOTOCELL RELAY

NOTE:

MATERIAL AND SIZE OF CONDUIT AND CABLE AS REQUIRED BY UTILITY COMPANY



SERVICE INSTALLATION (SPECIAL)

STD. 9-68

REVISIONS	
DRAWN	1-31-90
REVISED	2-24-92
REVISED	
REVISED	

FILE NAME = ...N0978182-sht-details.dgn

USER NAME = Rob Heady

DESIGNED -

REVISED -

DRAWN -

REVISED -

CHECKED -

REVISED -

DATE - 10/07/11

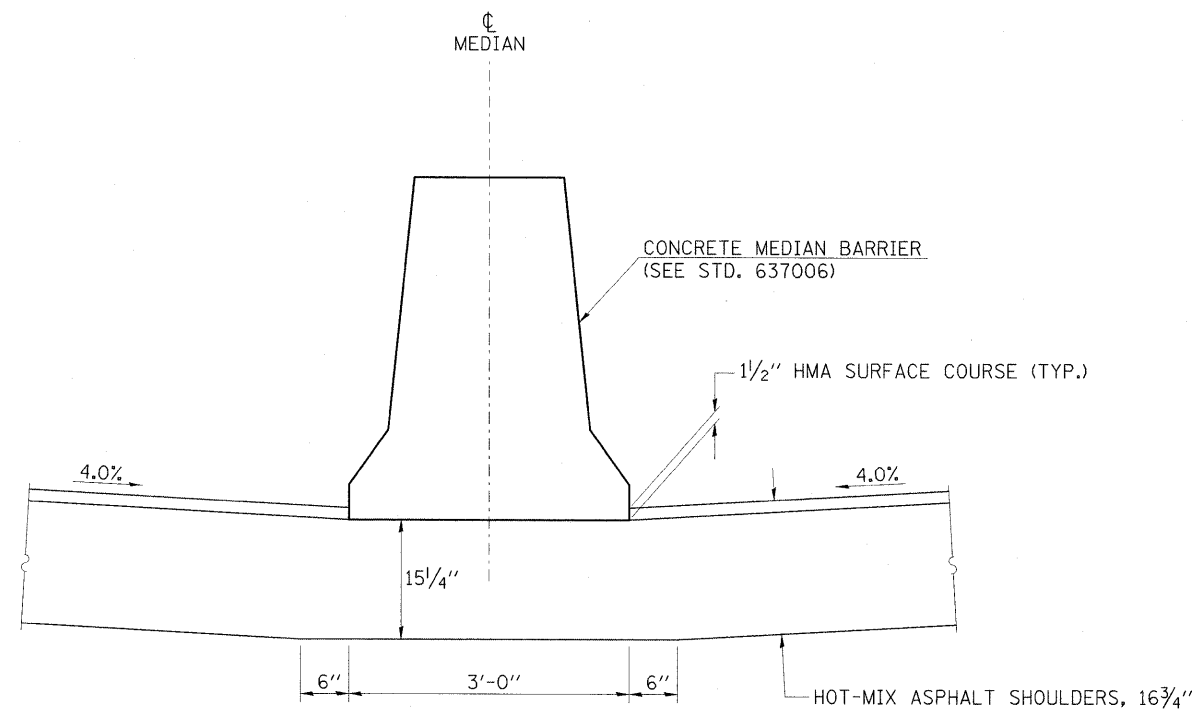
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

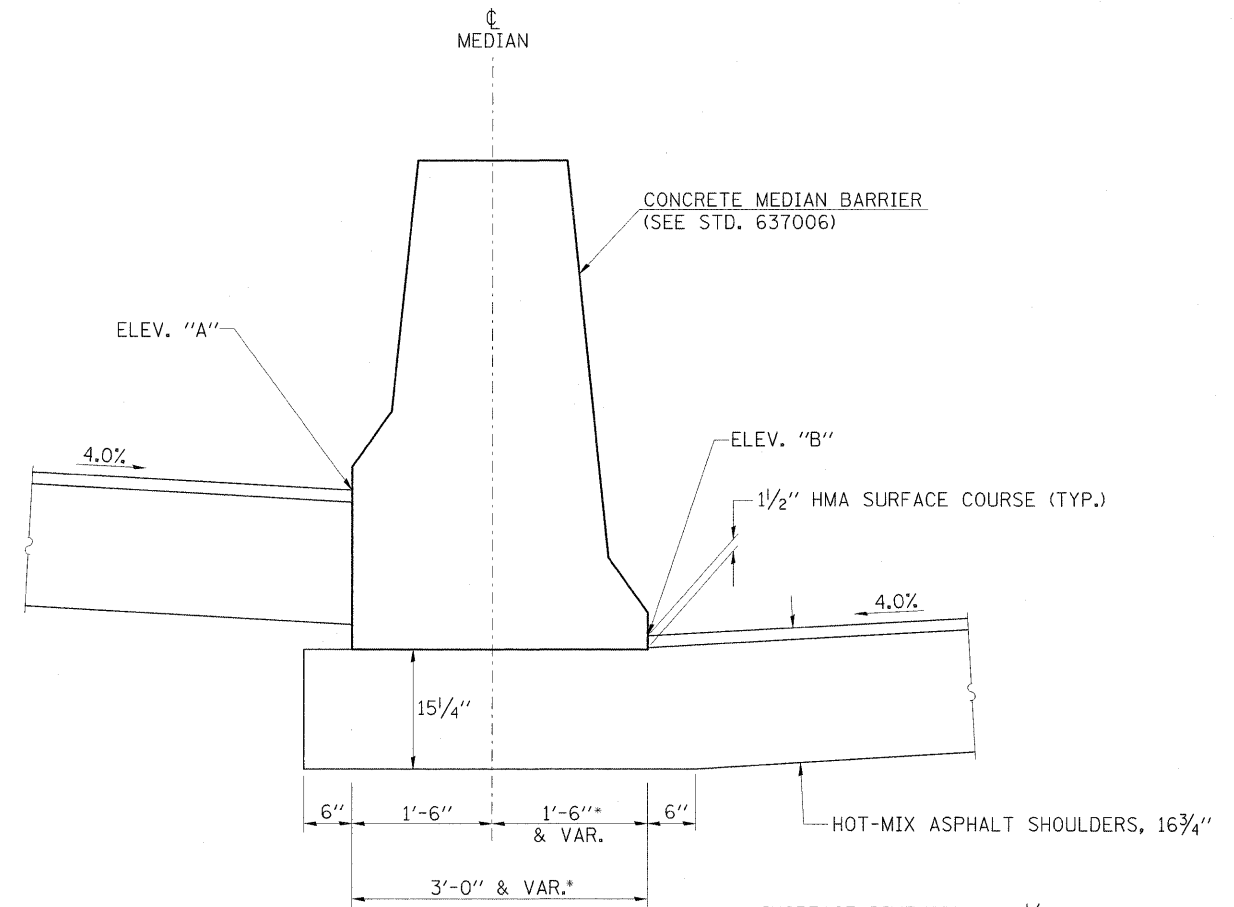
**DISTRICT DETAILS
I-57 AND IL ROUTE 13**

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(X1-6-2)HBK-2, HB-1,2; (X-1)R-1	WILLIAMSON	968	726
* F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182	
ILLINOIS FED. AID PROJECT				



CASE 1
(NB AND SB LANES ARE AT SAME ELEVATION)



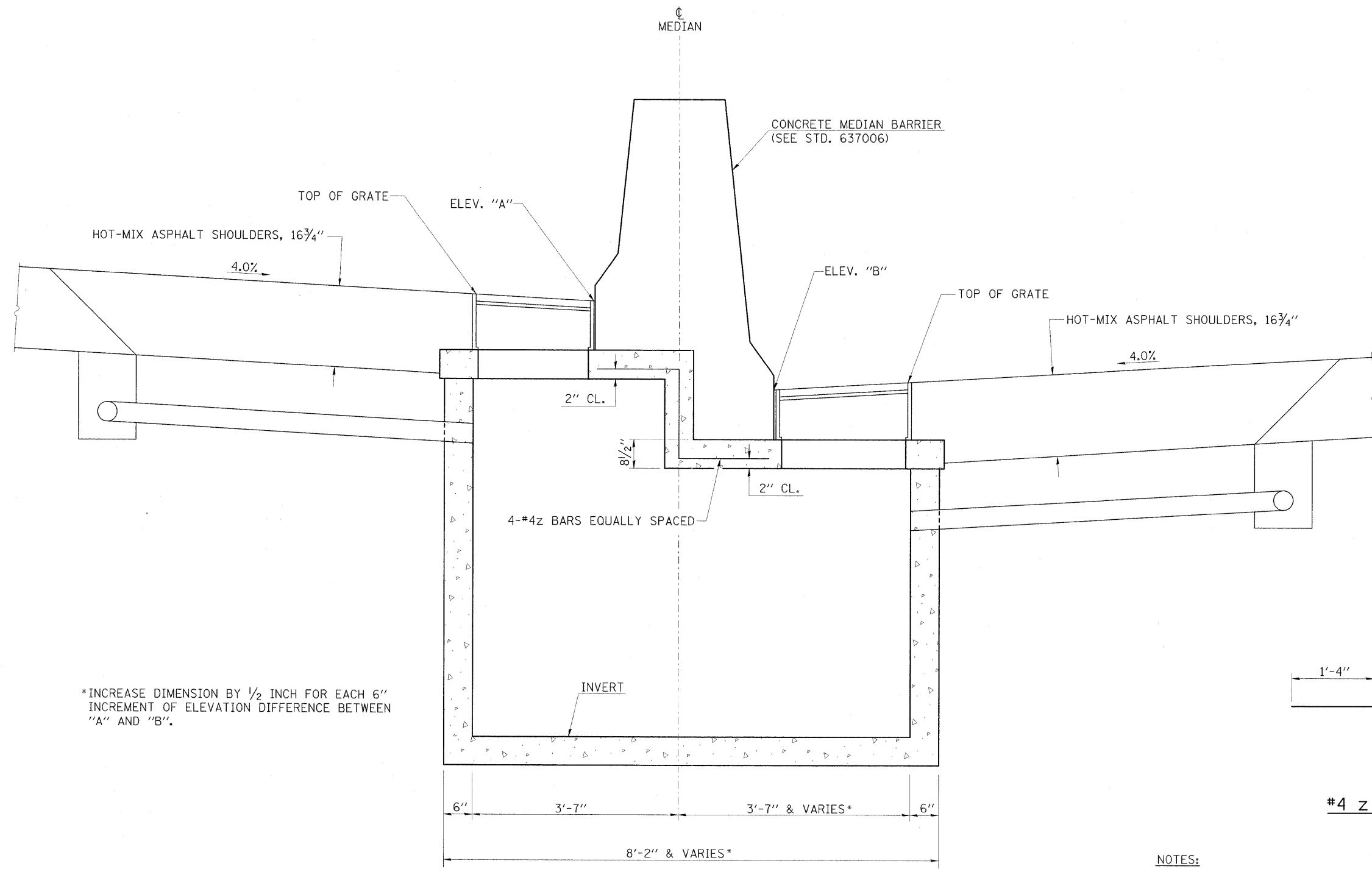
CASE 2
(NB AND SB LANES ARE AT DIFFERENT ELEVATIONS)

*INCREASE DIMENSION BY 1/2 INCH FOR EACH 6" INCREMENT OF ELEVATION DIFFERENCE BETWEEN "A" AND "B".

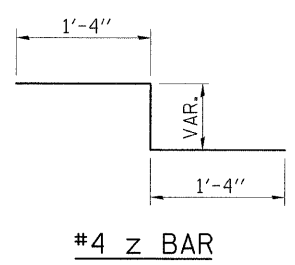
NOTES:

1. THE METHOD AND SEQUENCE OF CONSTRUCTION WILL BE THE CONTRACTORS OPTION, BUT SHALL BE APPROVED BY THE ENGINEER.

FILE NAME =	USER NAME = Rob Heady	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL - BITUMINOUS SHOULDER UNDER CONCRETE MEDIAN BARRIER I-57 AND IL ROUTE 13	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...ND978182-shr-DET001-BIT_SHLDR_UND_BAR.dgn	PLOT SCALE = 1.0000 "/ IN.	DRAWN -	REVISED -			* (X1-6-2)HBK-2, HB-1,2; (IX-1)R-1	WILLIAMSON	968	727	
PLOT DATE = 10/7/2011	DATE = 10/07/11	CHECKED -	REVISED -			* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
		DATE = 10/07/11	REVISED -			ILLINOIS FED. AID PROJECT				
SCALE: NTS						SHEET NO.	OF	SHEETS	STA.	TO STA.



*INCREASE DIMENSION BY 1/2 INCH FOR EACH 6" INCREMENT OF ELEVATION DIFFERENCE BETWEEN "A" AND "B".

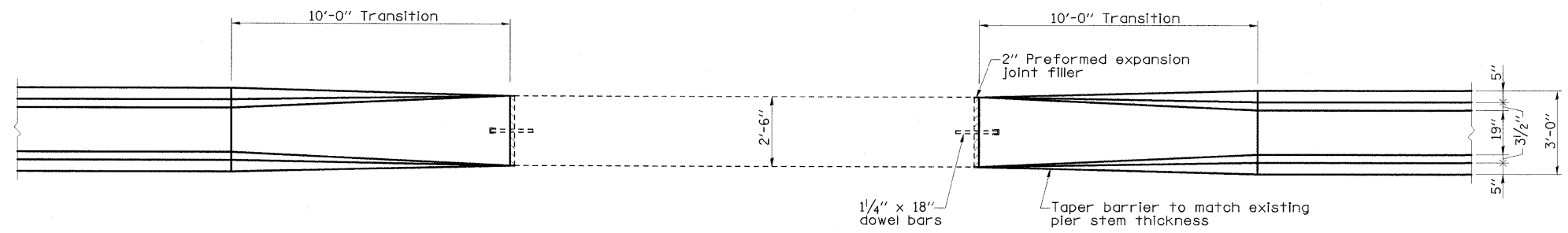


SECTION - DRAINAGE STRUCTURE, TYPE 4
(NB AND SB LANES ARE AT DIFFERENT ELEVATIONS)

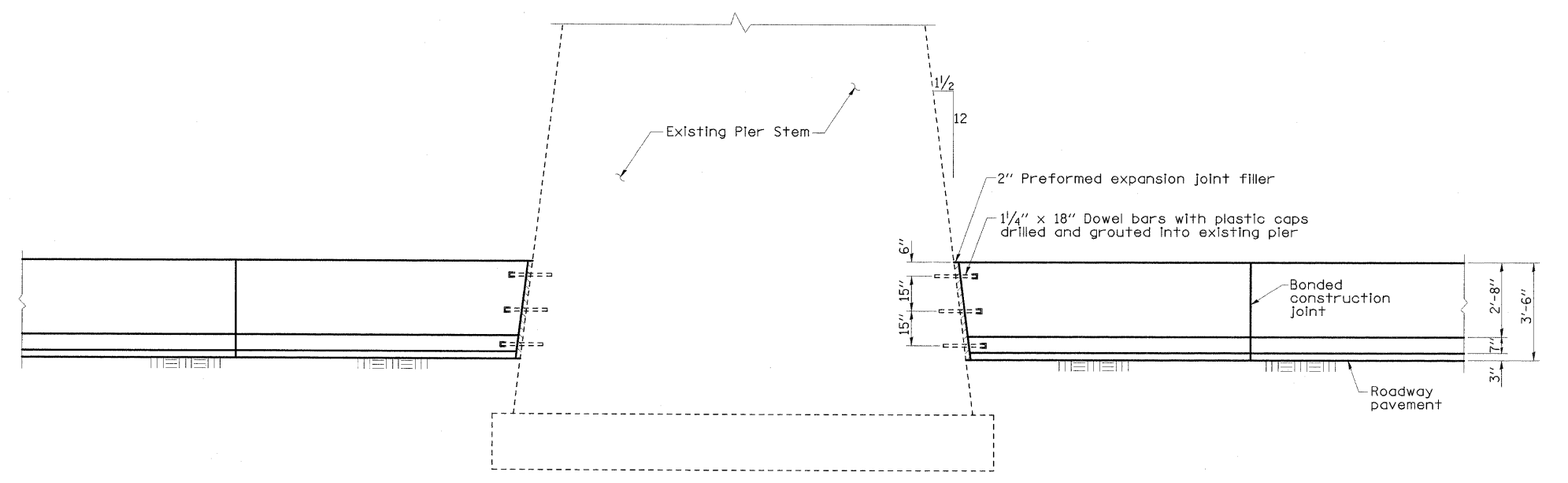
NOTES:

1. SEE STANDARDS 602106 AND 637006 FOR ADDITIONAL DETAILS.
2. USE 8 T₁ REINFORCEMENT BARS (4 ON EACH SIDE) IN THE CENTER PORTION OF THE LID INSTEAD OF 7 AS SHOWN ON THE STANDARD.
3. THE #4z BARS MAY BE CUT AND BENT TO FIT IN THE FIELD.
4. THE #6 TRANSVERSE BARS SHOWN ON STANDARD 602106 MAY BE CUT INTO EQUAL LENGTHS TO FIT THE TWO HALVES OF THE LID AT DIFFERENT ELEVATIONS.
5. THE ADDITIONAL REINFORCEMENT BARS REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR DRAINAGE STRUCTURES, TYPE 4, AND NO ADDITIONAL PAYMENT WILL BE ALLOWED.
6. SEE STANDARD 601001-02 FOR UNDERDRAIN DETAILS.
7. UNDERDRAIN OUTLET ELEVATION WILL VARY AT DIFFERENT LOCATIONS.

FILE NAME = ...D978182-sht-DET002-DRNSTY4.dgn	USER NAME = Rob Heady	DESIGNED -	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL - DRAINAGE STRUCTURE, TYPE 4 I-57 AND IL ROUTE 13	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 1.0000' / IN.	CHECKED -	REVISIONS -	* 01-6-21HBK-2, HB-1,2; 01-DR-1			WILLIAMSON	968	728		
PLOT DATE = 10/7/2011	DATE = 10/07/11	REVISIONS -	* F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182		ILLINOIS FED. AID PROJECT		
					SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.



PLAN

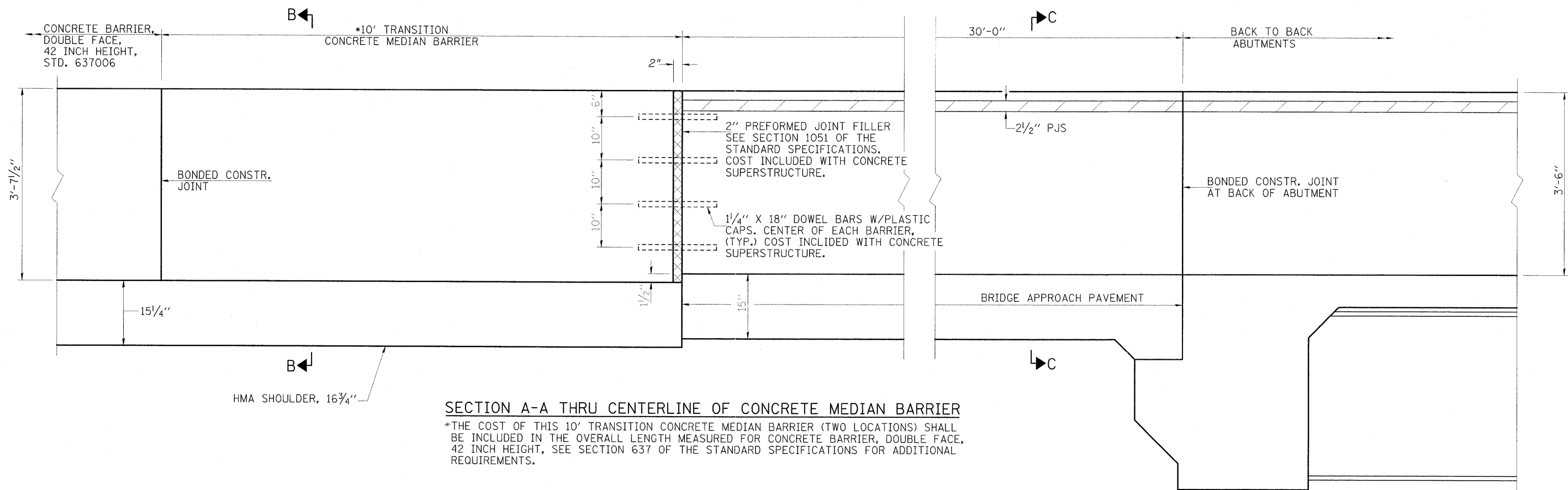


ELEVATION

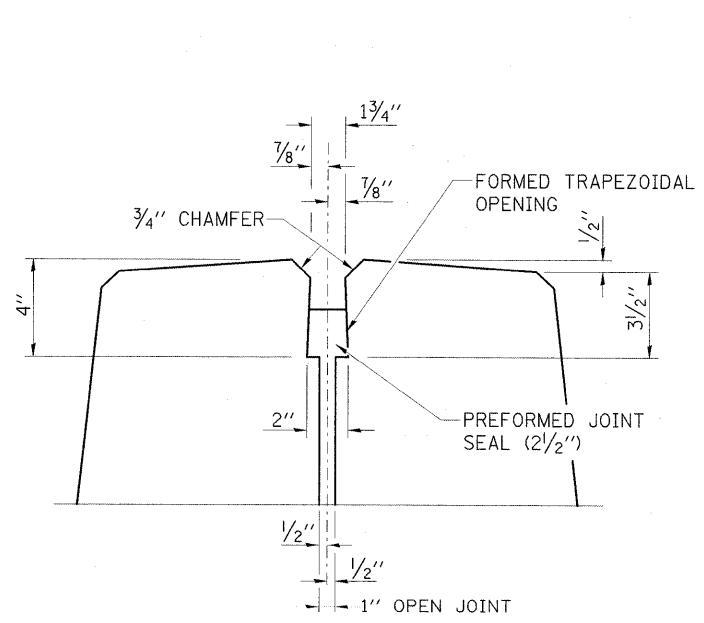
NOTES:

1. The cost of this transition concrete median barrier (two locations) shall be included in the overall length measured for Concrete Barrier, Double Face, 42 Inch Height. See Section 637 of the Standard Specifications for additional requirements.
2. 1/4" x 18" dowel bars and preformed expansion joint filler to be included in the cost for Concrete Barrier, Double Face, 42 Inch.

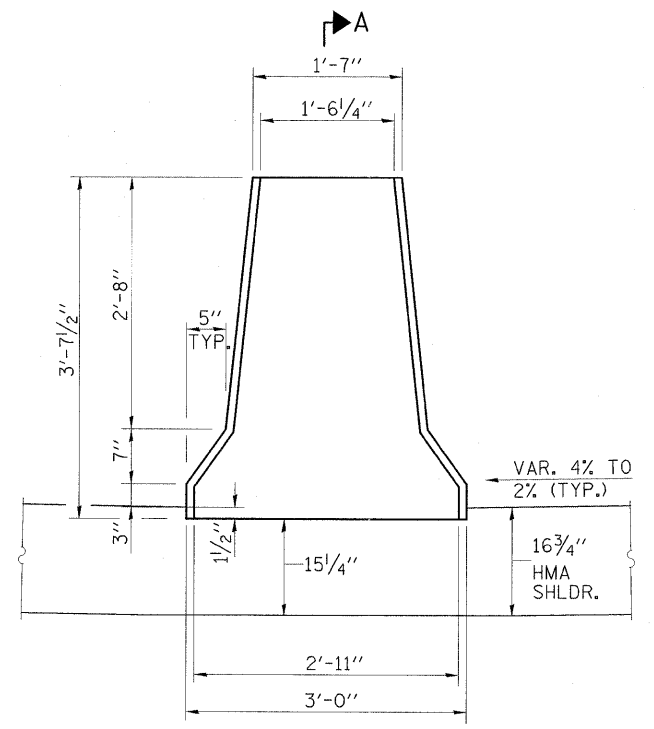
FILE NAME = ...XD978182-sht-DET003-PIERATTACH.dgn	USER NAME = Rob Heady	DESIGNED - BPD	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL - CONCRETE MEDIAN BARRIER TRANSITION TO PIER I-57 AND IL ROUTE 13			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 2.6656 1/2 IN.	DRAWN - GLD	REVISIONS -		SCALE: NTS	SHEET NO.	OF	SHEETS	STA.	TO STA.	• (X1-6-2)HBK-2, HB-1,2; (IX-1)R-1	968	729
	PLOT DATE = 10/7/2011	CHECKED - BPD	REVISIONS -								• F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182	
		DATE - 10/07/11	REVISIONS -								ILLINOIS FED. AID PROJECT		



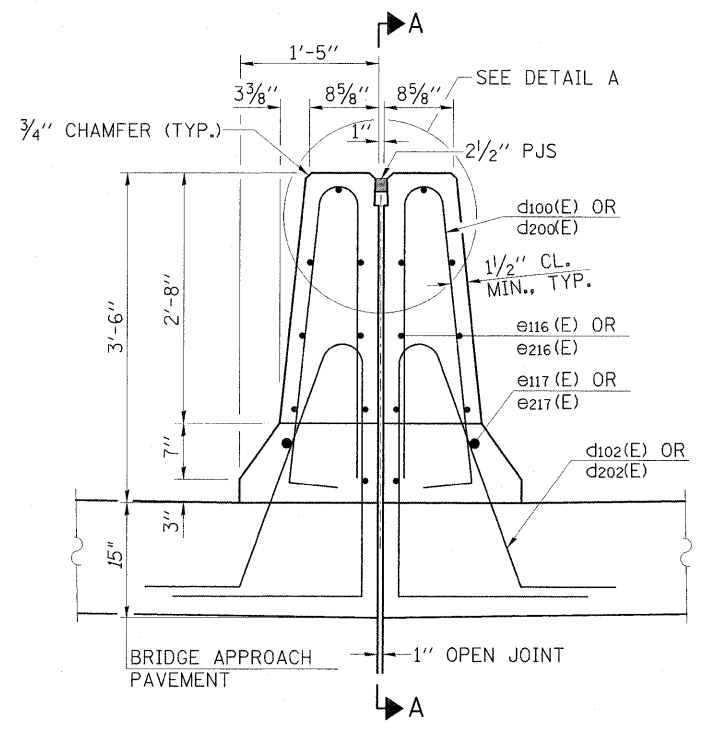
SECTION A-A THRU CENTERLINE OF CONCRETE MEDIAN BARRIER
 *THE COST OF THIS 10' TRANSITION CONCRETE MEDIAN BARRIER (TWO LOCATIONS) SHALL BE INCLUDED IN THE OVERALL LENGTH MEASURED FOR CONCRETE BARRIER, DOUBLE FACE, 42 INCH HEIGHT, SEE SECTION 637 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



DETAIL A



SECTION B-B

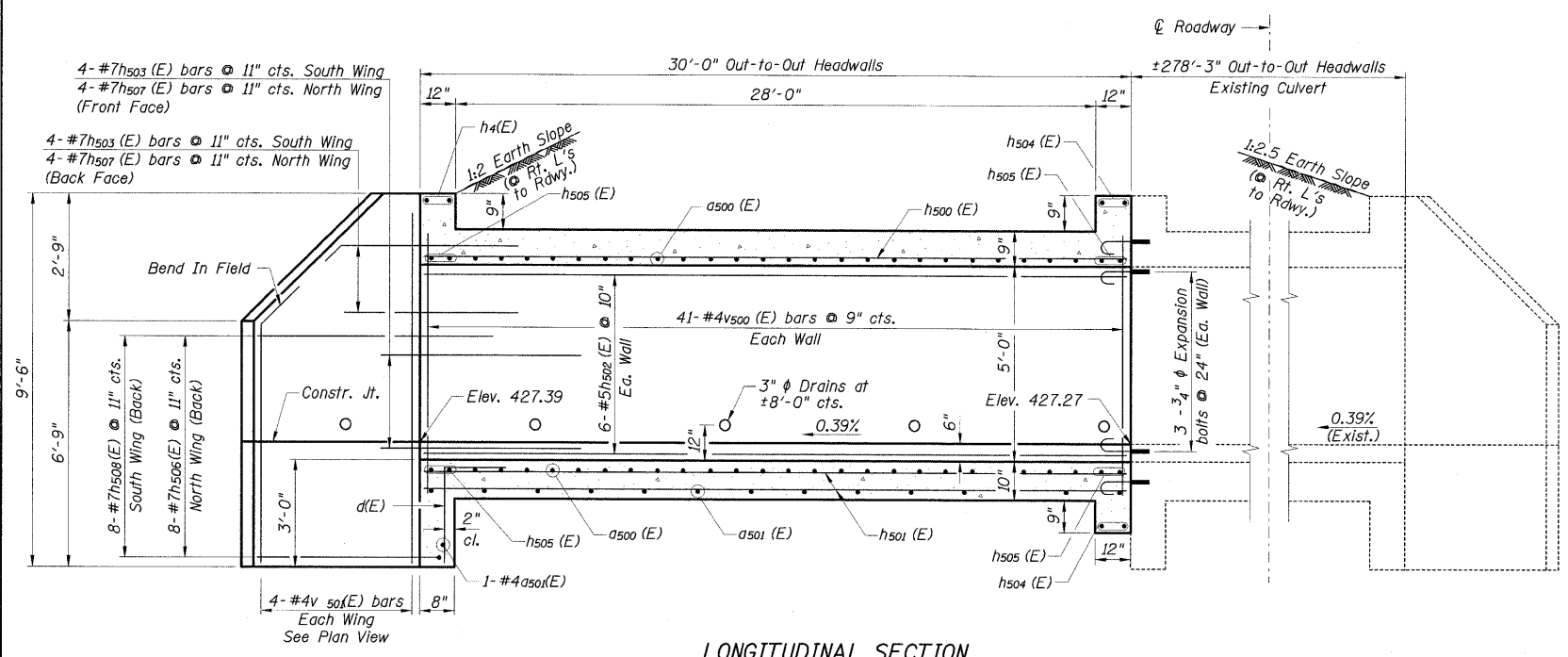


SECTION C-C
 SEE STRUCTURE PLANS FOR BAR DETAILS AND QUANTITIES.

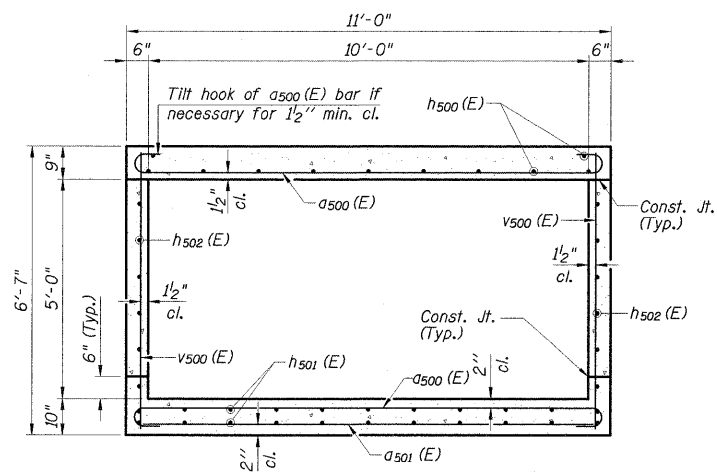
FILE NAME =	USER NAME = Rob Heady	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL - 30' CONC. MEDIAN BARRIER ON BRIDGE APPROACH PVMT. I-57 AND IL ROUTE 13	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\D978182-sht-DET004-BARR.TRN_APPRVT.dgn		DRAWN -	REVISED -			* (X1-6-2)HBK-2, HB-1,2; (IX-DR-1	WILLIAMSON	968	730	
PLOT SCALE = 1:10000 / / IN.		CHECKED -	REVISED -			* F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182	
PLOT DATE = 10/11/2011		DATE = 10/07/11	REVISED -			ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

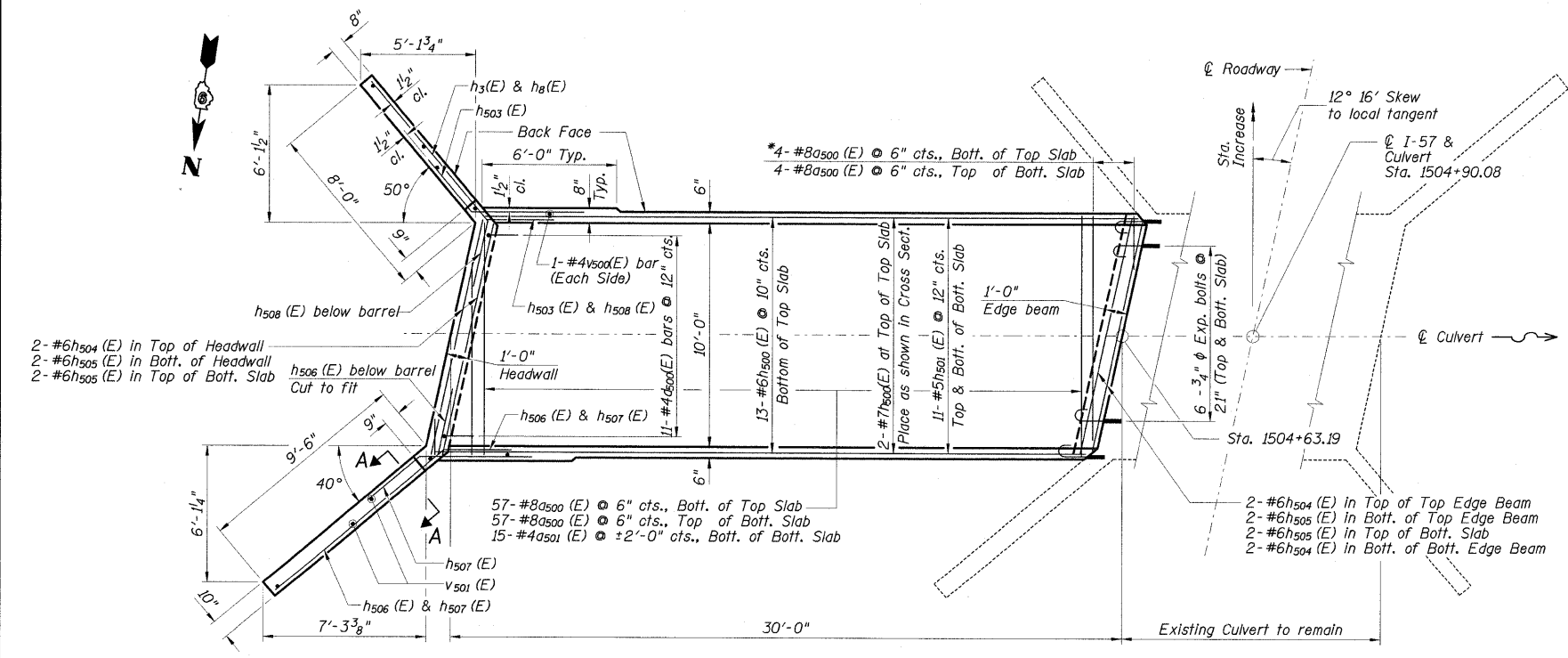
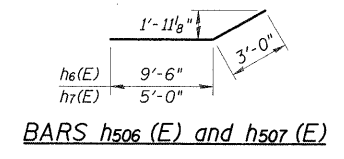
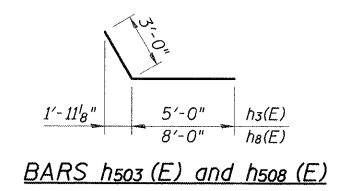
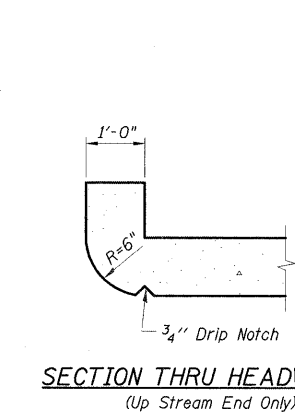
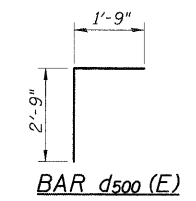
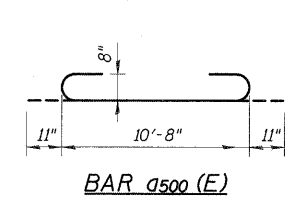
Bar	No.	Size	Length	Shape
a500 (E)	122	#8	12'-6"	
a501 (E)	16	#4	10'-8"	
d (E)	11	#4	4'-6"	
h500 (E)	15	#6	29'-8"	
h501 (E)	22	#5	29'-8"	
h502 (E)	12	#5	29'-8"	
h503 (E)	8	#7	8'-0"	
h504 (E)	6	#6	10'-10"	
h505 (E)	8	#6	11'-0"	
h506 (E)	8	#7	12'-6"	
h507 (E)	8	#7	8'-0"	
h508 (E)	8	#7	11'-0"	
v500 (E)	84	#4	6'-3"	
v501 (E)	8	#4	9'-2"	
Concrete Box Culverts		Cu. Yd.	31.1	
Reinforcement Bars, Epoxy Coated		Pound	7,210	
Expansion Bolts 3/4" Inch		Each	18	



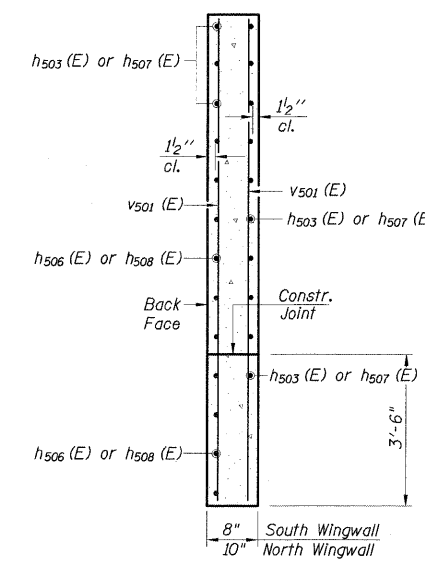
LONGITUDINAL SECTION



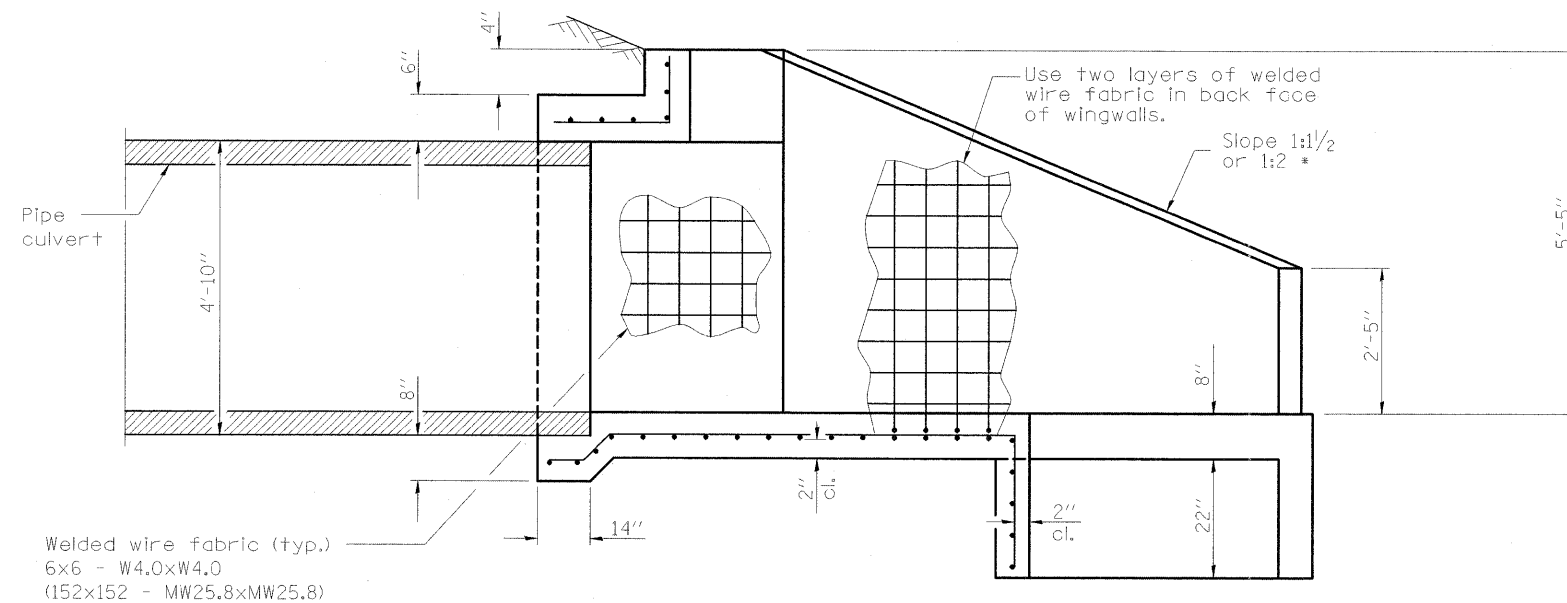
TYPICAL SECTION



PLAN

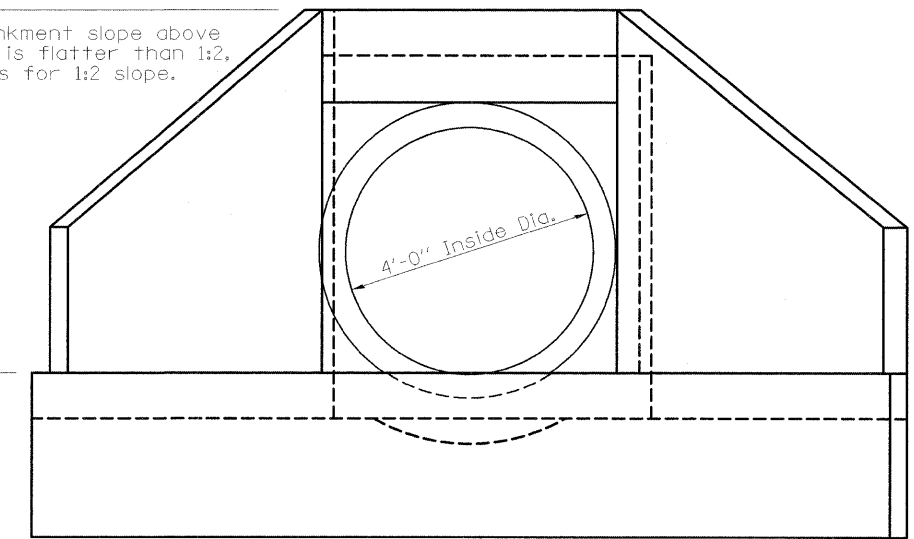


- NOTES:**
1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
 2. Reinforcement bars designated (E) shall be epoxy coated.
 3. Precast alternate is not allowed.
 4. A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
 5. All construction joints shall be bonded.
 6. Expansion bolts shall be 3/4" x 12" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and have a minimum certified proof load of 4,080 lbs.



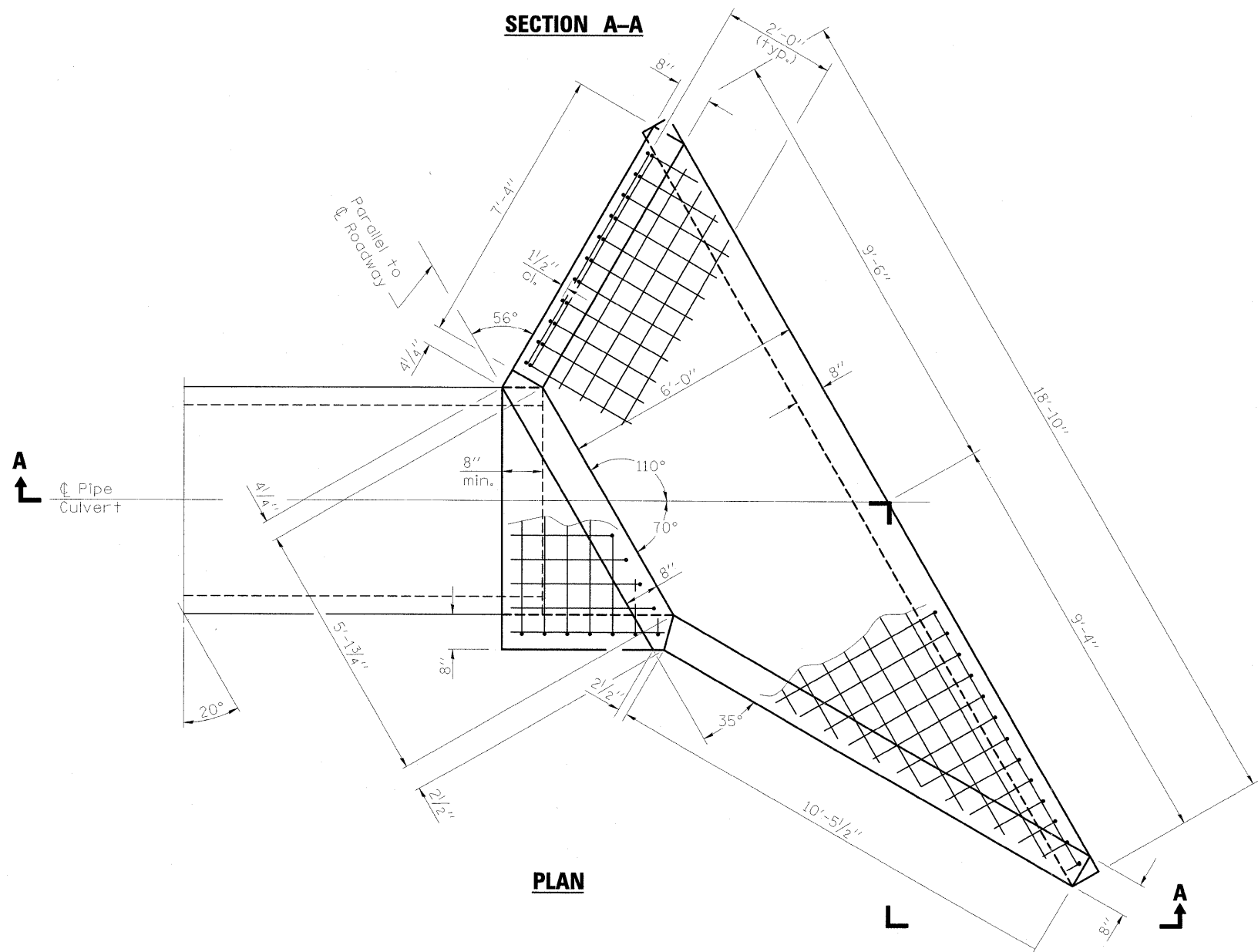
Welded wire fabric (typ.)
 6x6 - W4.0xW4.0
 (152x152 - MW25.8xMW25.8)

*If the embankment slope above the headwall is flatter than 1:2, provide wings for 1:2 slope.



END VIEW

SECTION A-A



PLAN

BILL OF MATERIAL (1 END SECTION)

ITEM	UNIT	TOTAL
Concrete Structures	Cu. Yd.	5.5
Welded Wire Fabric, 6 x 6	Sq. Yd.	38

GENERAL NOTES

Build tops of headwalls parallel to grade line.

When lapping sheets of welded wire fabric, the overlap measured between the outermost cross wires of each fabric sheet shall not be less than 8 (200).

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

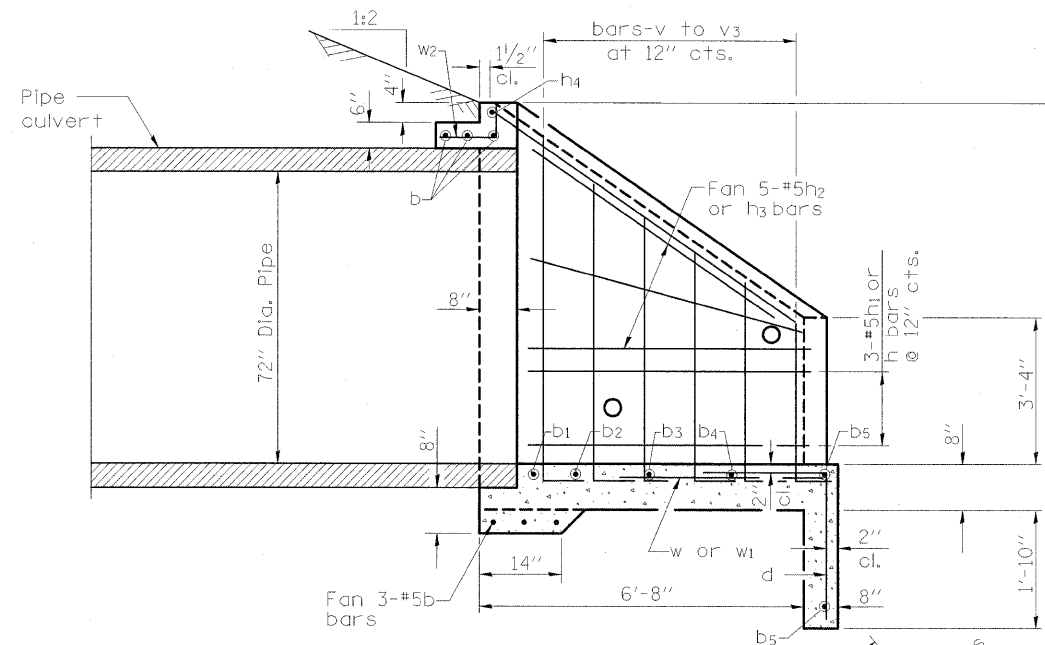
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PLOT SCALE = 1.0000' / IN.	CHECKED -	REVISED -	REVISED -
PLOT DATE = 10/7/2011	DATE = 10/07/11	REVISED -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

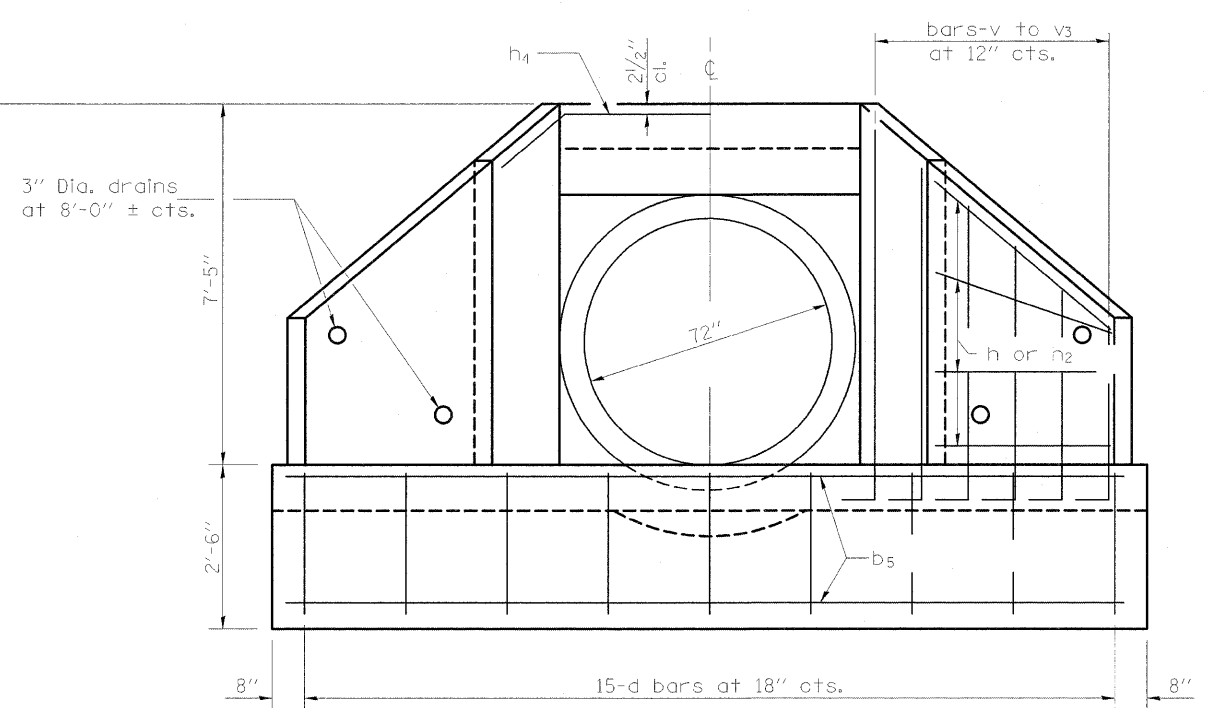
**DETAIL - 48" CONCRETE END SECTION
 I-57 AND IL ROUTE 13**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

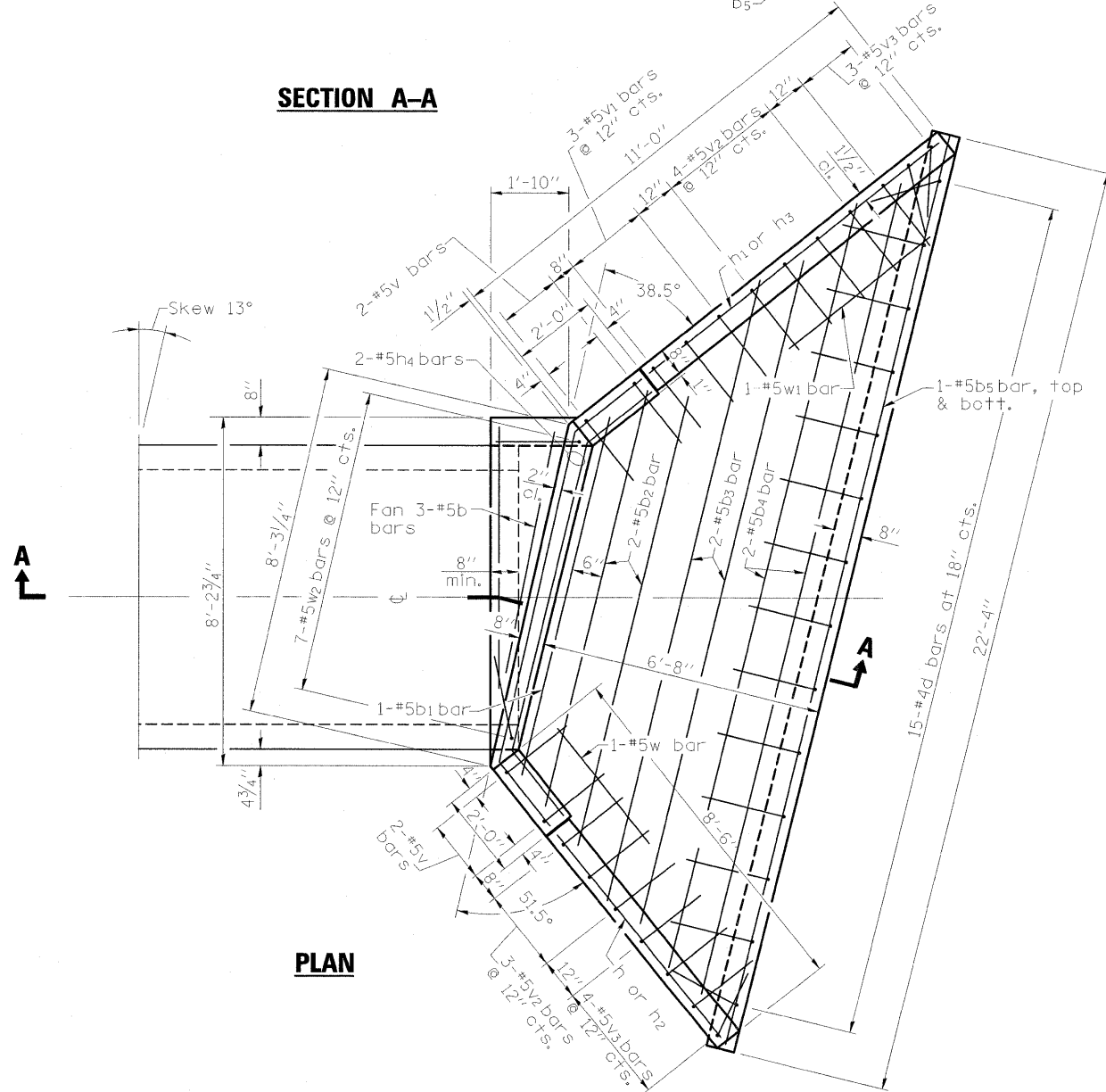
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* (X1-6-2)HBK-2, HB-1,2; (IX-1)R-1		WILLIAMSON	968	732
* F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182	
ILLINOIS FED. AID PROJECT				



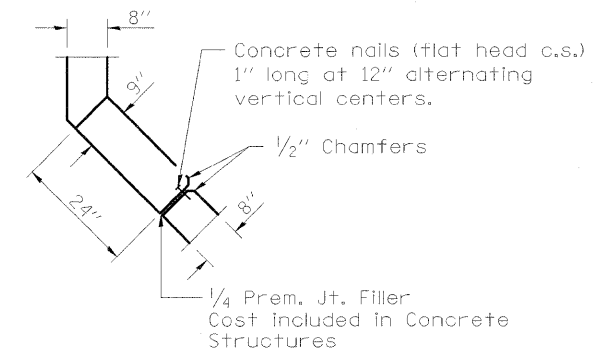
SECTION A-A



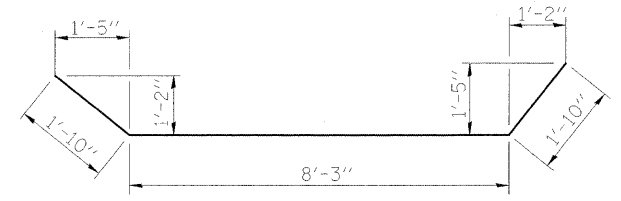
END ELEVATION



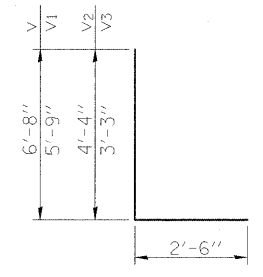
PLAN



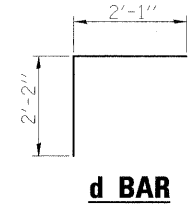
CORNER DETAIL



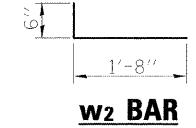
h4 BAR



v THRU v3 BARS



d BAR



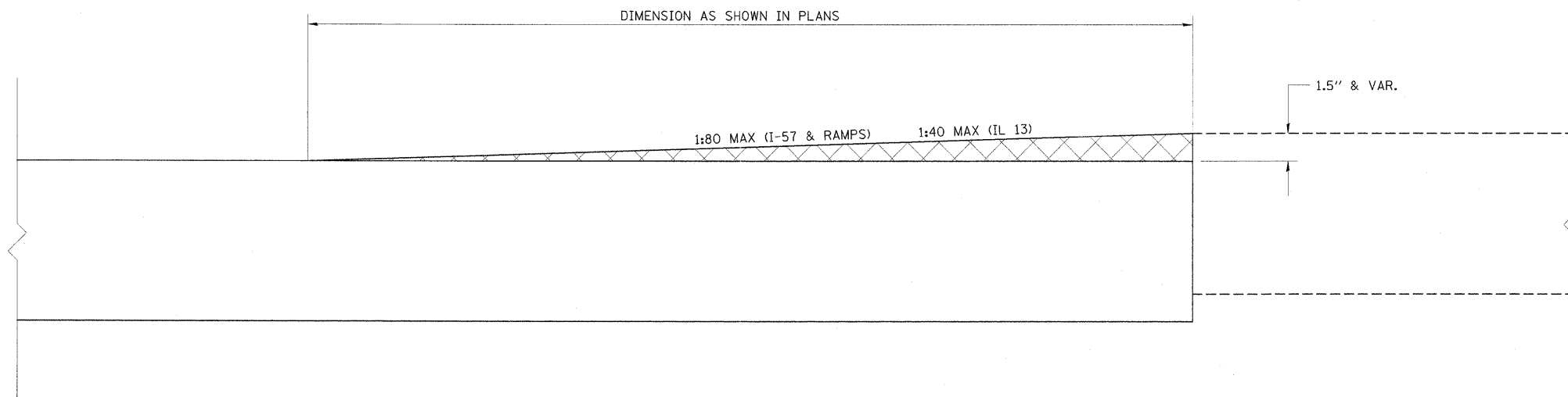
w2 BAR

BILL OF MATERIAL

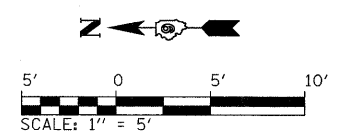
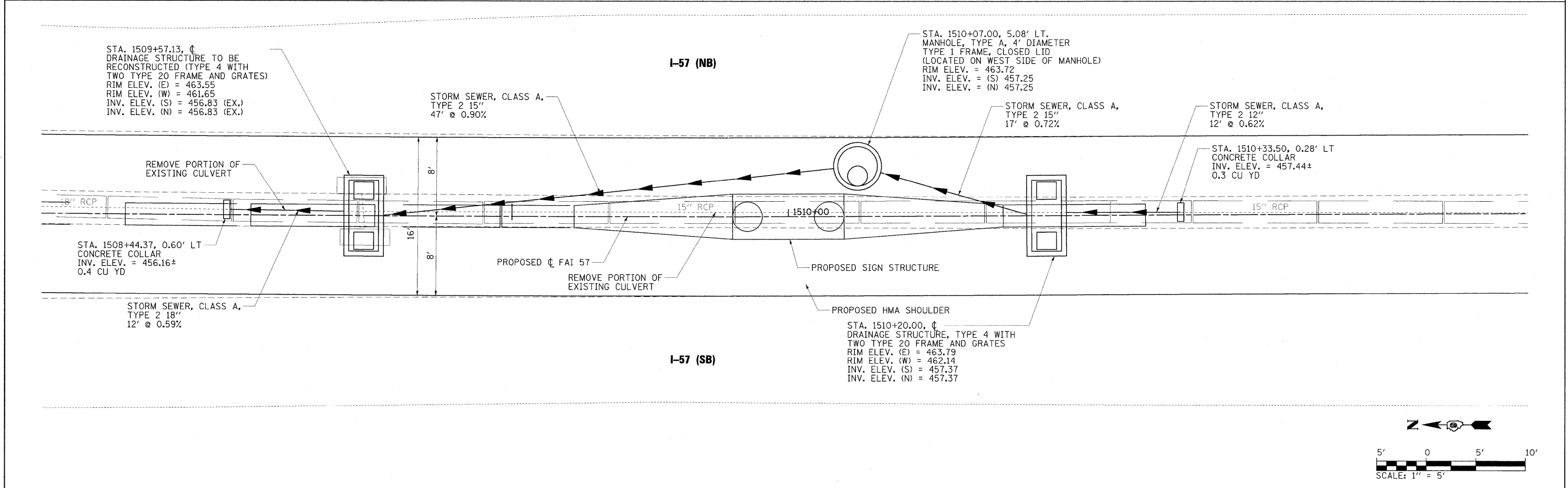
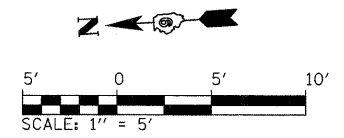
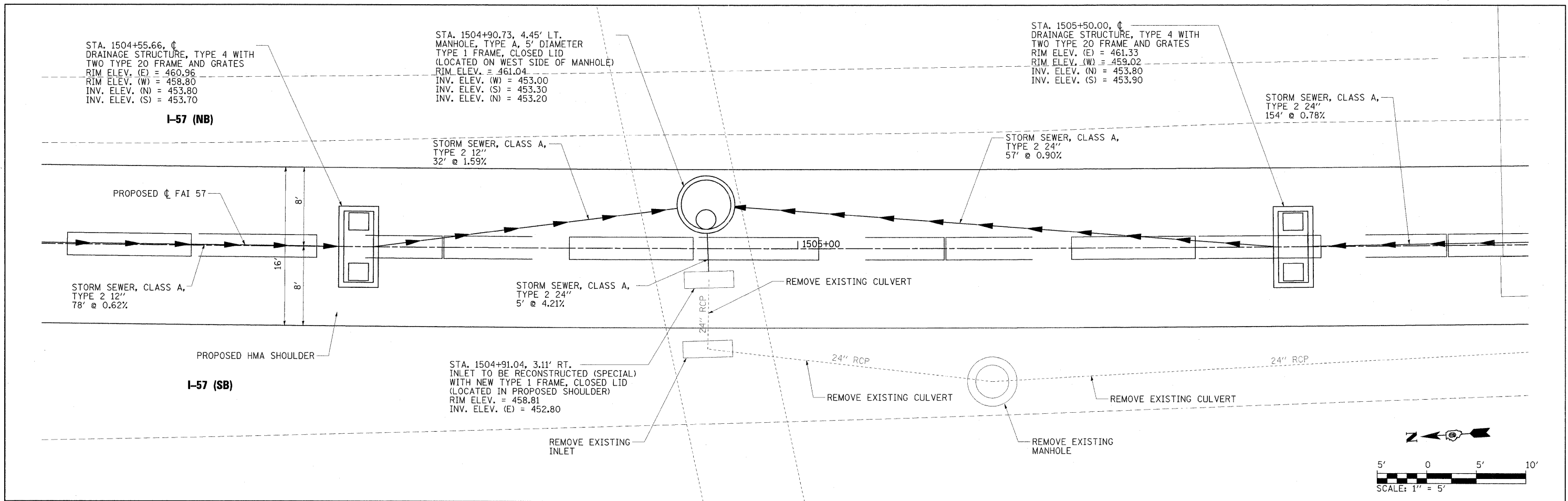
BAR	NO.	SIZE	LENGTH	SHAPE
b	6	5	7'-8"	—
b1	1	5	7'-11"	—
b2	2	5	9'-3"	—
b3	2	5	13'-6"	—
b4	2	5	17'-9"	—
b5	2	5	22'-0"	—
d	15	4	4'-3"	└
h	3	5	6'-2"	—
h1	3	5	8'-8"	—
h2	3	5	6'-8"	—
h3	3	5	9'-2"	—
h4	2	5	11'-11"	└
v	4	5	9'-2"	L
v1	3	5	8'-3"	L
v2	7	5	6'-10"	L
v3	7	5	5'-9"	L
w	1	5	5'-0"	—
w1	1	5	6'-0"	—
w2	7	5	2'-2"	└
Reinforcement Bars			Pound	530
Concrete Structures			Cu. Yd.	7.7

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

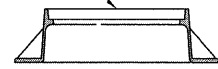


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	PLOT SCALE = 1.0000' / IN.	DRAWN -	REVISED -		* (X1-6-2)HBK-2, HB-1,2; (IX-1)R-1	WILLIAMSON	968	734			
	PLOT DATE = 10/7/2011	CHECKED -	REVISED -		* F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182			
		DATE = 10/07/11	REVISED -		ILLINOIS FED. AID PROJECT						
				SCALE: NTS	SHEET NO.	OF	SHEETS	STA.	TO STA.		



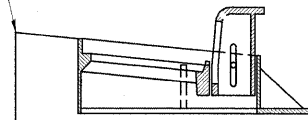
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	PLOT SCALE = 5.0000' / IN.	DRAWN - RAH	REVISD -		SCALE: 1" = 5'	SHEET NO.	OF	SHEETS	STA.	TO STA.	* 01-6-2H8K-2, HB-12; 01-DR-1	968	735
	PLOT DATE = 10/7/2011	CHECKED - BJD	REVISD -								* F.A.I. 57 AND F.A.P. 331		
		DATE - 10/07/11	REVISD -								WILLIAMSON		
											CONTRACT NO. 78182		
											ILLINOIS FED. AID PROJECT		

ELEVATION GIVEN IN SCHEDULE & PLANS



TYPE 1 FRAME AND LID

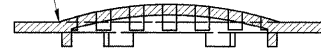
STATION, OFFSET AND ELEVATION GIVEN IN SCHEDULE & PLANS TO EDGE OF PAVEMENT



TYPE 3 FRAME AND GRATE

STATION AND OFFSET ARE NOT TO THE CENTER OF THE MANHOLE OR INLET.

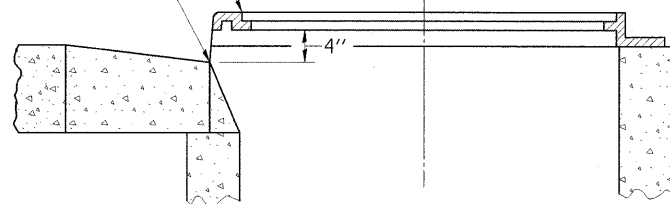
ELEVATION GIVEN IN SCHEDULE & PLANS



TYPE 8 GRATE

TOP OF INLET ELEVATION GIVEN IN SCHEDULE & PLANS

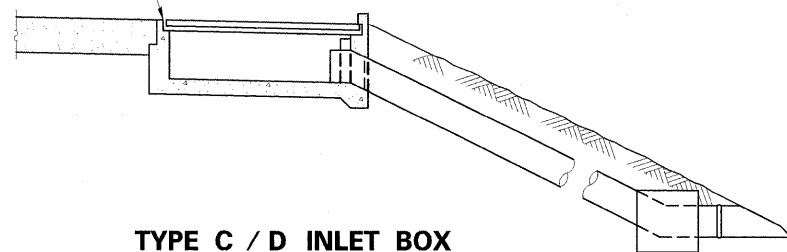
STATION, OFFSET, FLOWLINE GIVEN IN SCHEDULE & PLANS



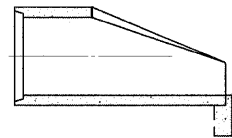
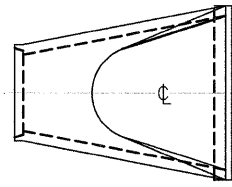
TYPE 15 FRAME AND LID

STATION AND OFFSET ARE NOT TO THE CENTER OF THE MANHOLE OR INLET.

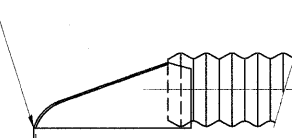
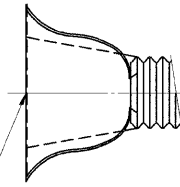
STATION, OFFSET & ELEV. GIVEN IN SCHEDULE & PLANS



TYPE C / D INLET BOX

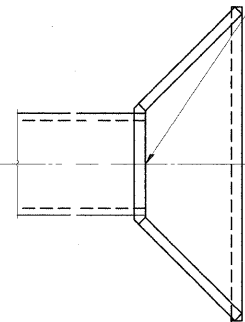
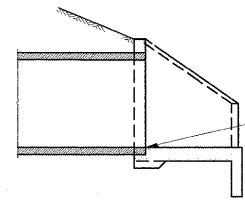


CONC. END SECTIONS



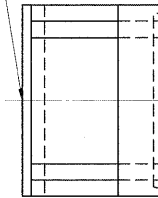
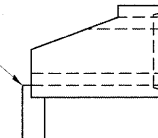
METAL END SECTIONS

STATION, OFFSET & INVERT GIVEN IN SCHEDULE & PLANS

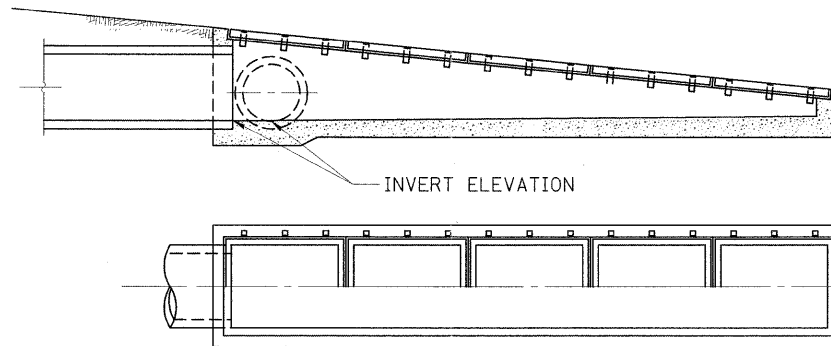


BOX CULVERT END SECTIONS

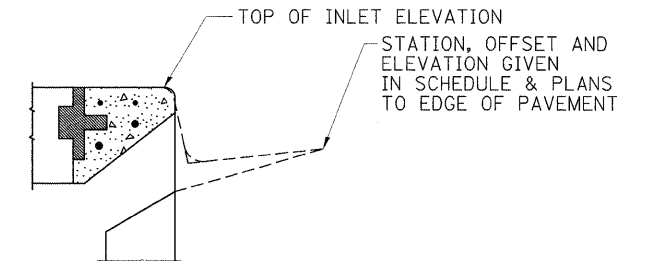
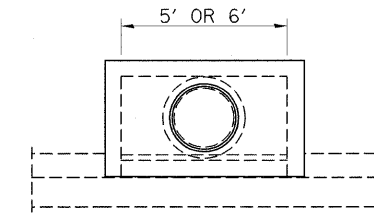
STATION, OFFSET & INVERT GIVEN IN SCHEDULE & PLANS



INVERT ELEVATION



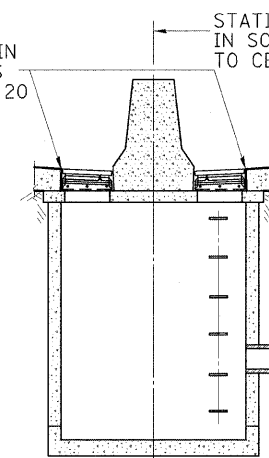
INLET BOX STANDARD 542531 (TYPE 24 G)



DETAILS OF INLET, SPECIAL, NO. 1 (TYPE 3, 5 FEET AND 6 FEET)

ELEVATION GIVEN IN SCHEDULE & PLANS TO EDGE OF TYPE 20 FRAME & GRATE

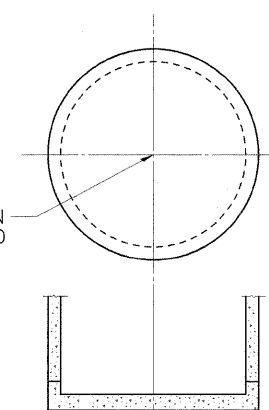
STATION, OFFSET GIVEN IN SCHEDULE & PLANS TO CENTER OF STRUCTURE



DRAINAGE STRUCTURE TYPE 4 WITH TWO TYPE 20 FRAME AND GRATES

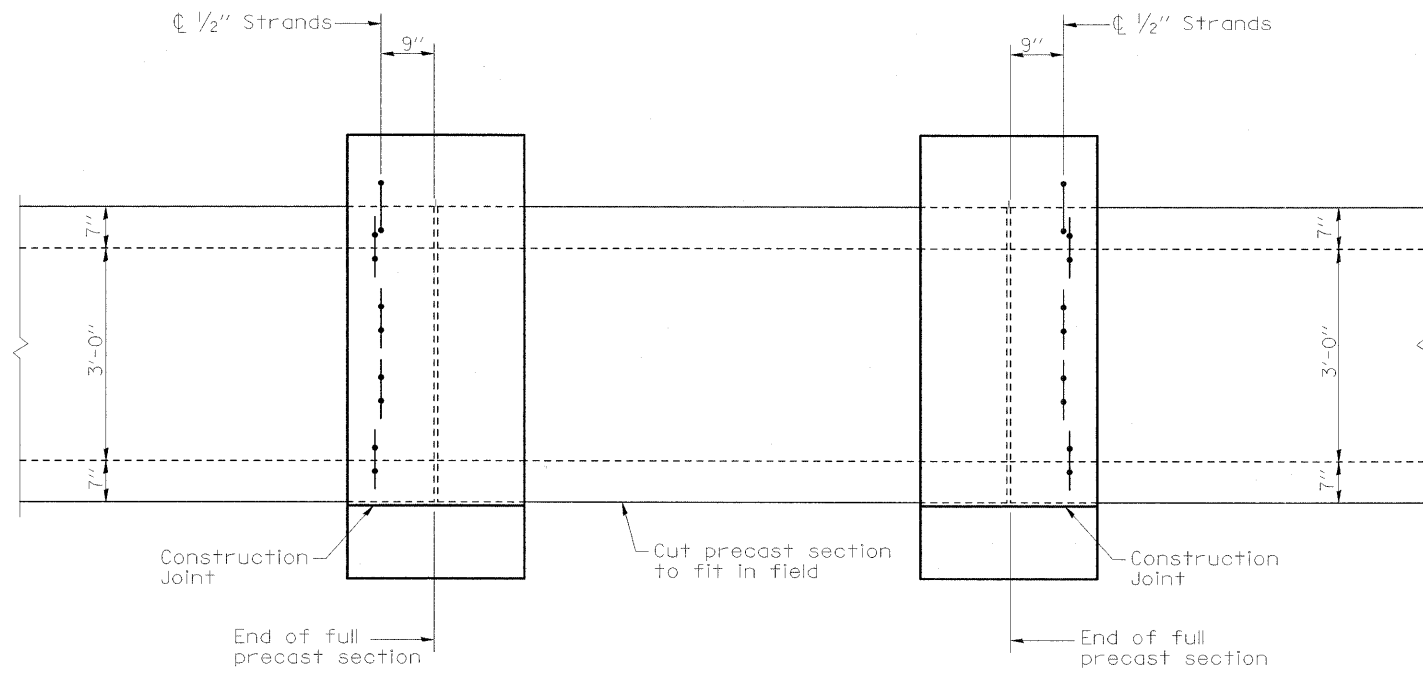
STATION, OFFSET & ELEV. GIVEN IN SCHEDULE & PLANS

STATION AND OFFSET GIVEN IN SCHEDULE AND PLANS TO CENTER OF STRUCTURE

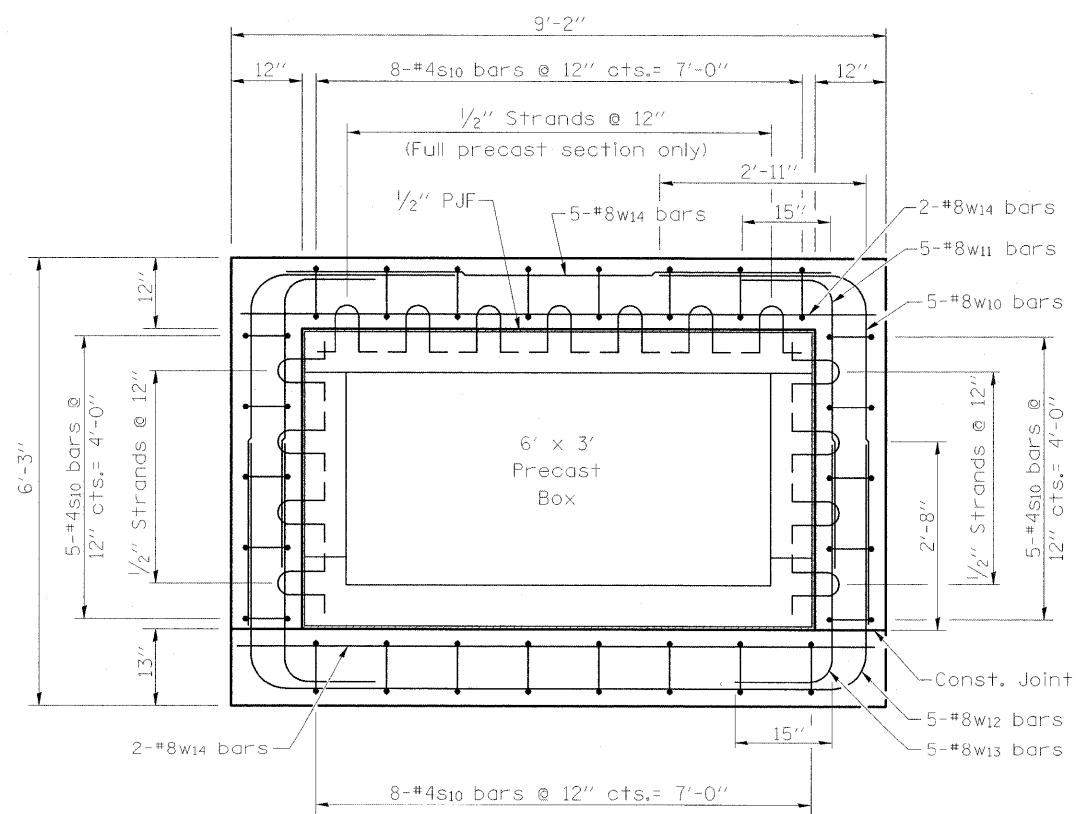


MANHOLES AND INLETS, TYPE A & B EXCEPT WHEN USED WITH TYPE 3 AND TYPE 15 CASTINGS

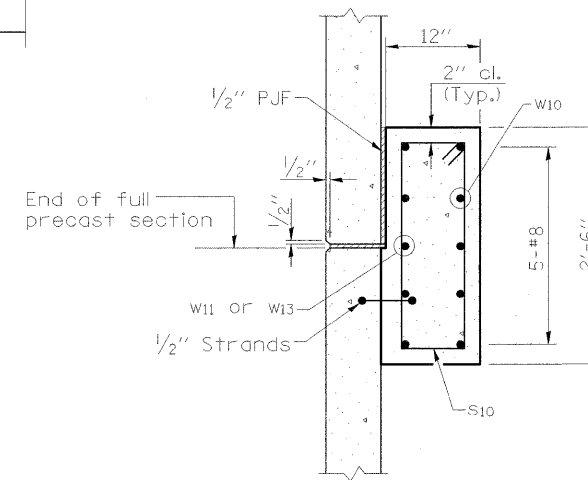
FILE NAME =	USER NAME = Rob Heady	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL - DRAINAGE STRUCTURE REFERENCE POINTS I-57 AND IL ROUTE 13				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...ND979182-sht-Det010-Drain_Struct.Ref.dgn		DRAWN -	REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	* DX1-6-2HMK-2, HB-1,2; (IX-1R-1	WILLIAMSON	968	736
		CHECKED -	REVISED -								* F.A.I. 57 AND F.A.P. 331			
		DATE - 10/07/11	REVISED -								ILLINOIS FED. AID PROJECT			CONTRACT NO. 78182



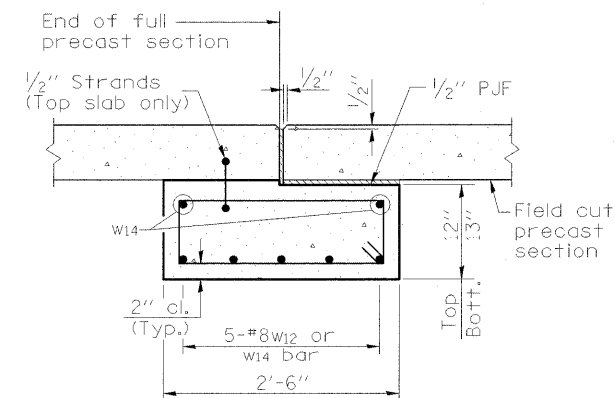
ELEVATION PRECAST SECTION



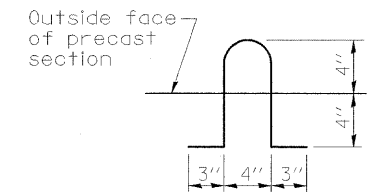
SECTION THRU BOX AT COLLAR



SECTION THRU SIDEWALL

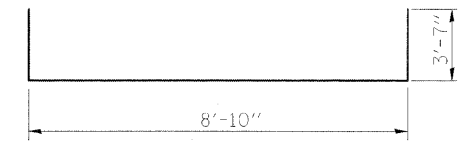


SECTION THRU TOP AND BOTTOM SLAB

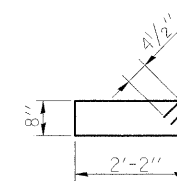


SHEAR STRAND

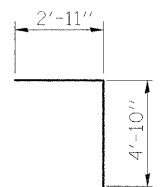
Note: Include shear strands in precast sections at ends adjacent to final, field cut, precast section only.



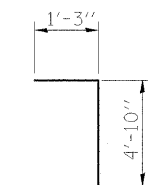
w12 BAR



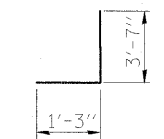
s10 BAR



w10 BAR



w11 BAR



w13 BAR

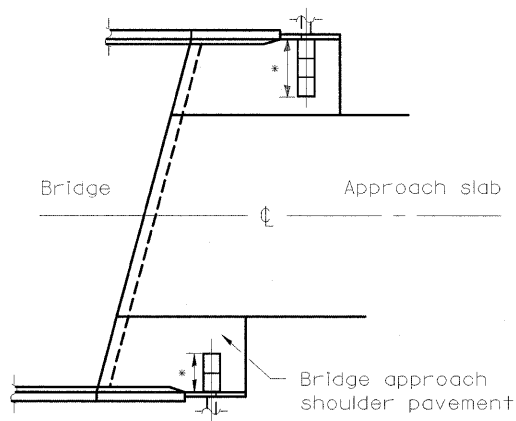
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
s10	52	4	6'-5"	
w10	20	8	7'-9"	
w11	20	8	6'-1"	
w12	10	8	16'-0"	
w13	20	8	4'-10"	
w14	18	8	8'-10"	
Reinforcement Bars			Pound	2,070
Concrete Structures			Cu. Yd.	5.1

Note: 1/2" Preformed joint filler included in cost of Concrete Structures.

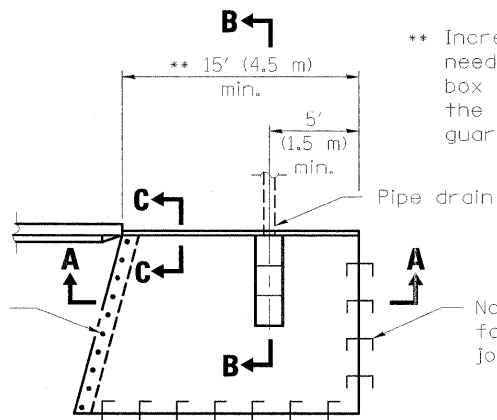
FILE NAME = ...ND978182-sht-DET011-6X3COLLAR.dgn	USER NAME = Rob Henry	DESIGNED - BPD	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	6' X 3' CONCRETE BOX CULVERT COLLAR I-57 AND IL ROUTE 13			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = 1.3328' / IN.	DRAWN - GLD	REVISD -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	* 01-6-2HBK-2, HB-12; (IX-DR-1	WILLIAMSON	968	737
	PLOT DATE = 10/7/2011	CHECKED - BPD	REVISD -								* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182		
		DATE - 10/07/11	REVISD -								[ILLINOIS] FED. AID PROJECT			

* Type C or D inlet box as required.



GENERAL PLAN

Tie bars at 12 (300) cts. (by Bridge Contractor)

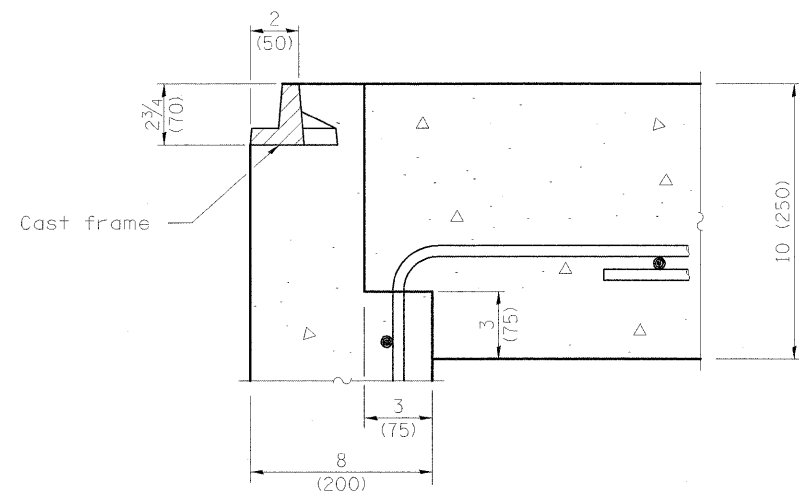


TYPICAL DETAIL PLAN

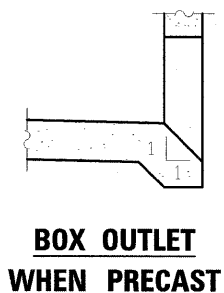
(W/O Wingwall)

** Increase this dimension as needed to position the inlet box and pipe drain between the proposed approach guard rail posts.

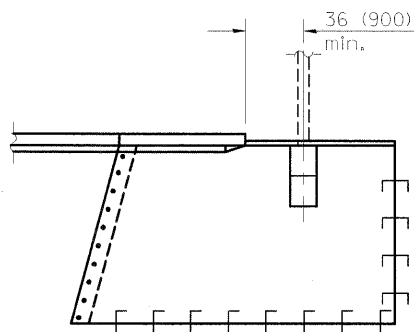
No. 6 (No. 19) tie bars as detailed for longitudinal construction joint on Standard 420001



DETAIL A



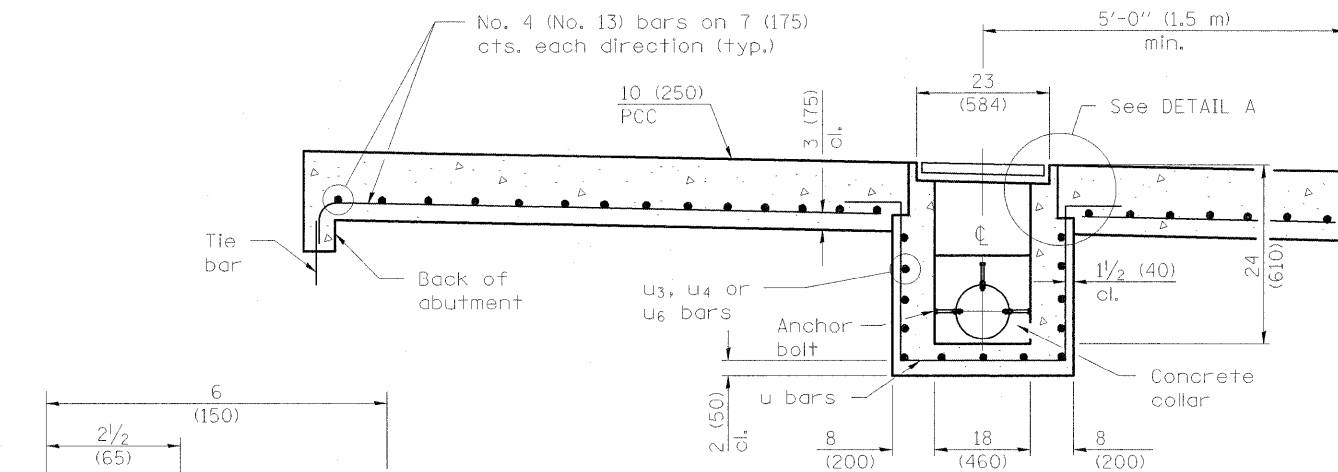
BOX OUTLET WHEN PRECAST



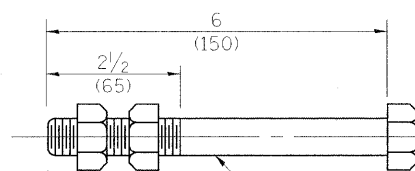
TYPICAL DETAIL PLAN

(With Wingwall)

Dimensions and notes not shown shall be the same as w/o wingwall detail plan above.

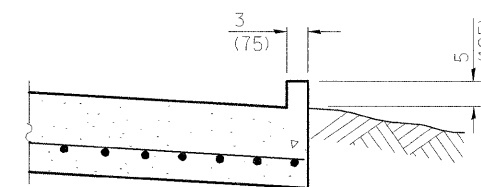


SEC. A-A

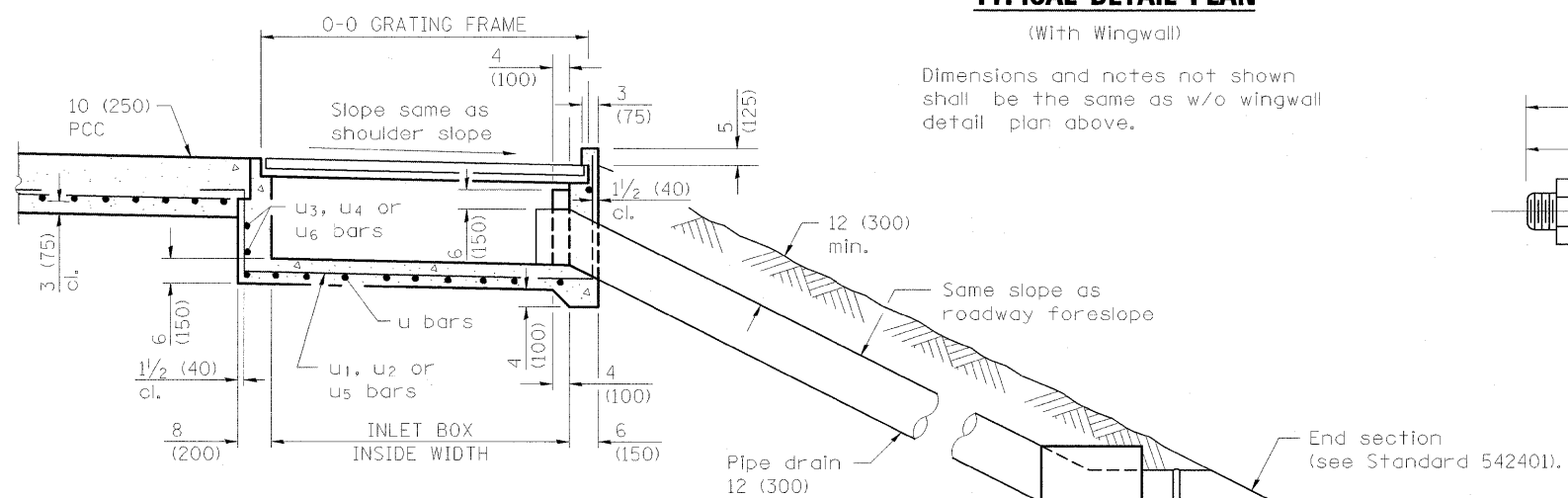


ANCHOR BOLT

(Used to tie pipe to concrete collar)



SEC. C-C



SEC. B-B

Cast in place concrete thrust block 24x24x24 (600x600x600).

INLET TYPE	SHOULDER WIDTH	O-O GRATING FRAME	INLET BOX INSIDE WIDTH	INLET BOX INSIDE LENGTH
Type C	5' (1.5 m) - 6' (1.8 m)	4'-4" (1.325 m)	3'-11" (1.195 m)	18 (460)
Type D	Greater than 6' (1.8 m)	6'-5" (1.960 m)	6'-0" (1.830 m)	18 (460)

Station	to	Station	Location
I-57			
APPROACH SLAB	---	1493+01.49	LT, SE CORNER OF FAI 57 BRIDGE
RAMP I			
13+29.74	---	APPROACH SLAB	RT, NW CORNER OF RAMP I BRIDGE
APPROACH SLAB	---	15+52.52	RT, SW CORNER OF RAMP I BRIDGE
23+23.10	---	APPROACH SLAB	RT, NW CORNER OF FAI 57 BRIDGE
APPROACH SLAB	---	28+15.98	RT, SW CORNER OF FAI 57 BRIDGE
RAMP J			
APPROACH SLAB	---	4+01.13	RT, NE CORNER OF FAI 57 BRIDGE
8+38.29	---	APPROACH SLAB	RT, NE CORNER OF RAMP J BRIDGE

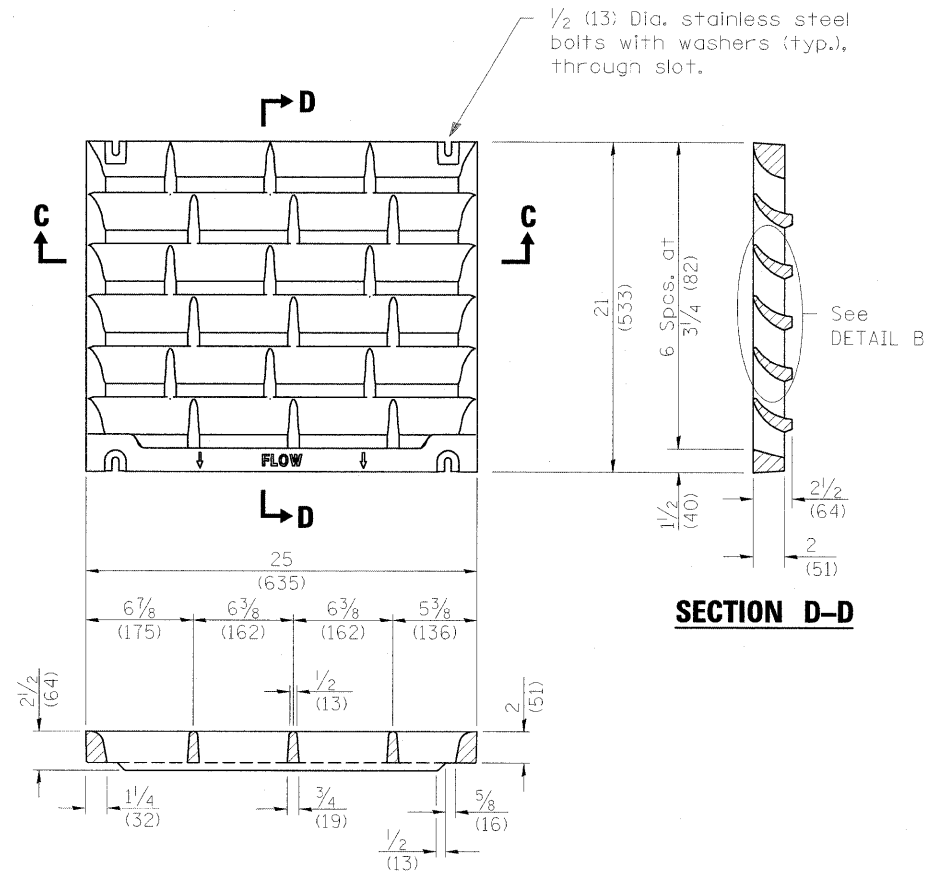
GENERAL NOTES

All exposed edges of the inlet, except the upper perimeter, shall be beveled 3/4 (20).

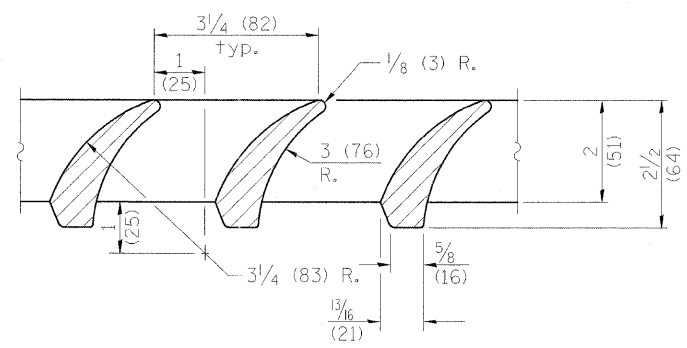
For placement of approach shoulder pavement on existing construction substitute expansion anchor ties for bars. Omit tie bars for flexible approaches or bridge approach shoulder pavement constructed monolithically with shoulder pavement.

All dimensions are in inches (millimeters) unless otherwise shown.

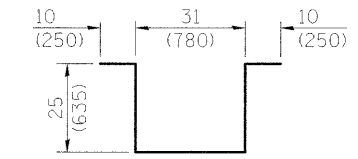
(Sheet 1 of 2)



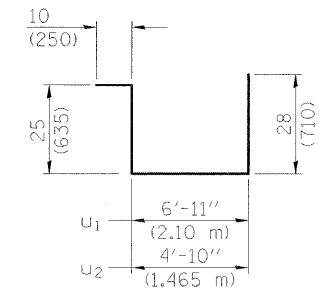
SECTION C-C
DETAIL OF CAST GRATE
 Type C requires 2 grates
 Type D requires 3 grates



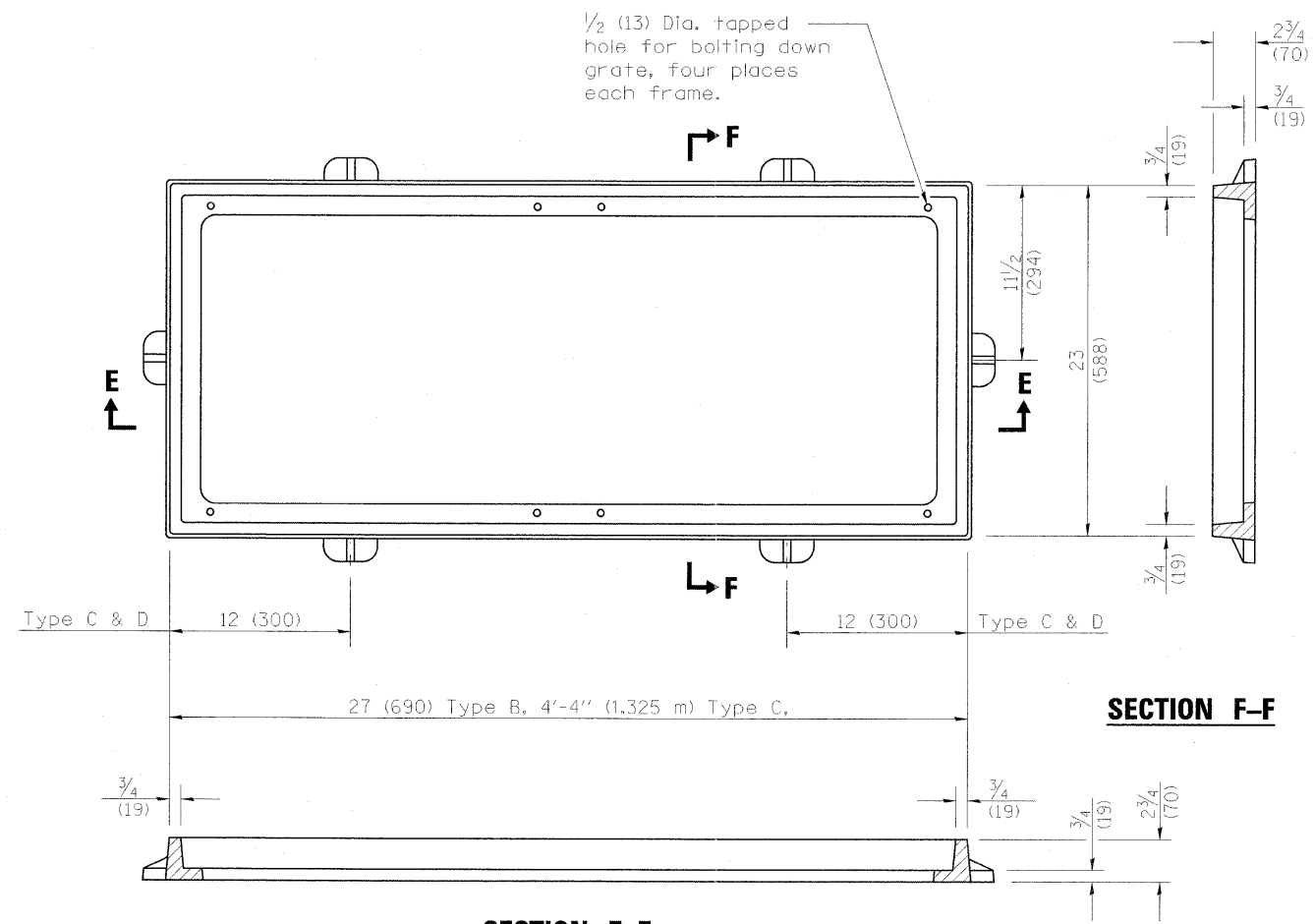
DETAIL B



BAR u



BARS u1 & u2



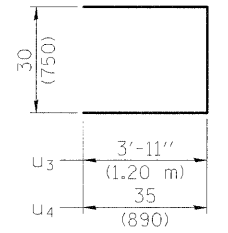
SECTION E-E

SECTION F-F

DETAIL OF CAST FRAME
 (Type C shown)

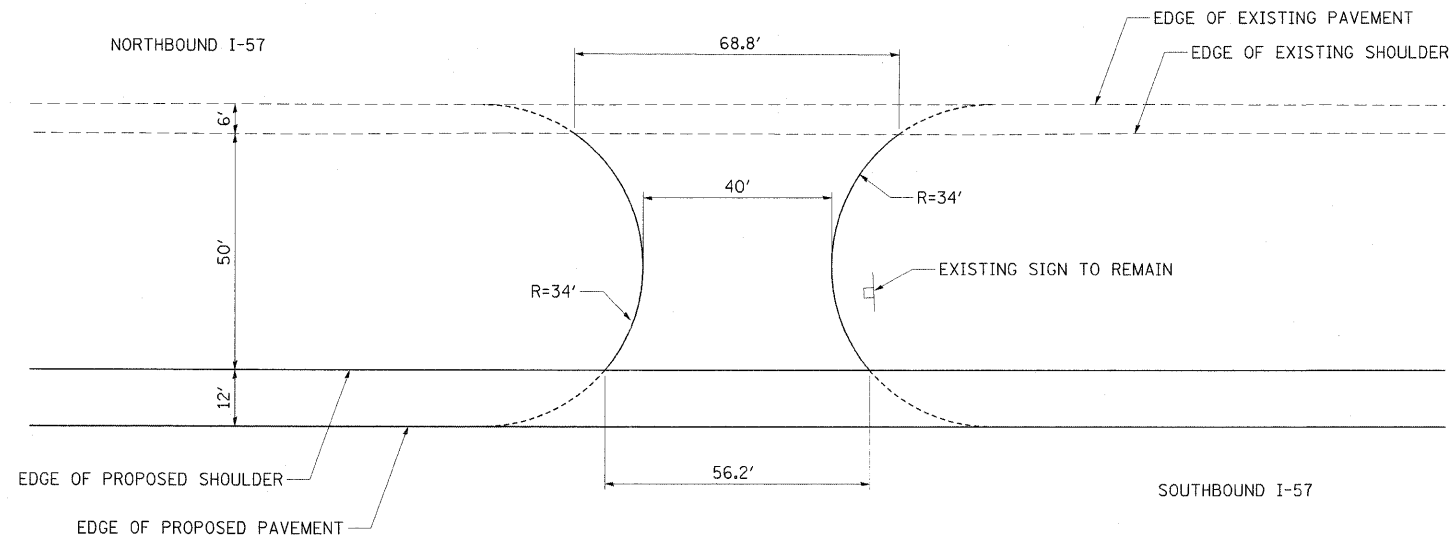
INLET BOX

REQUIRED MATERIAL			
TYPE C			
Bar	Qty.	Size	Length
u	6	No. 4 (No.13)	8'-5" (2.550 m)
u2	3	No. 4 (No.13)	10'-1" (3.060 m)
u4	4	No. 4 (No.13)	8'-4" (2.530 m)
Concrete	cu. yds. (m ³)		0.8 (0.6)
Reinf. bars	lbs. (kg)		76 (34.5)
Grating	sq. ft. (m ²)		7.3 (0.68)
TYPE D			
Bar	Qty.	Size	Length
u	8	No. 4 (No.13)	8'-5" (2.550 m)
u1	3	No. 4 (No.13)	12'-2" (3.695 m)
u3	4	No. 4 (No.13)	10'-4" (3.150 m)
Concrete	cu. yds. (m ³)		1.1 (0.8)
Reinf. bars	lbs. (kg)		97.0 (44.0)
Grating	sq. ft. (m ²)		10.9 (1.02)

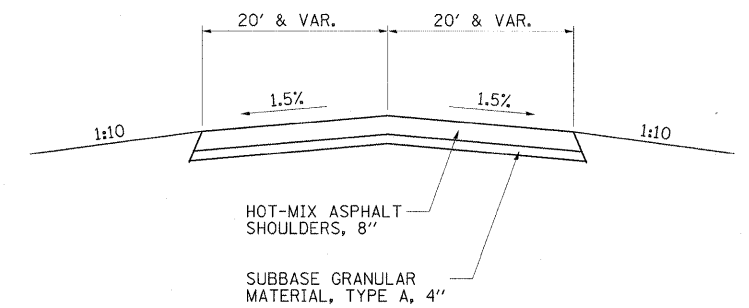


BARS u3 & u4

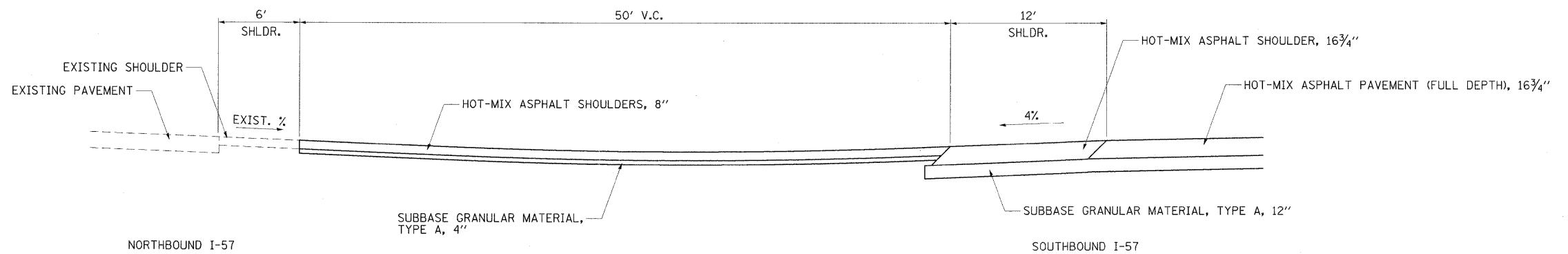
PLAN VIEW



CROSS SECTIONAL VIEW



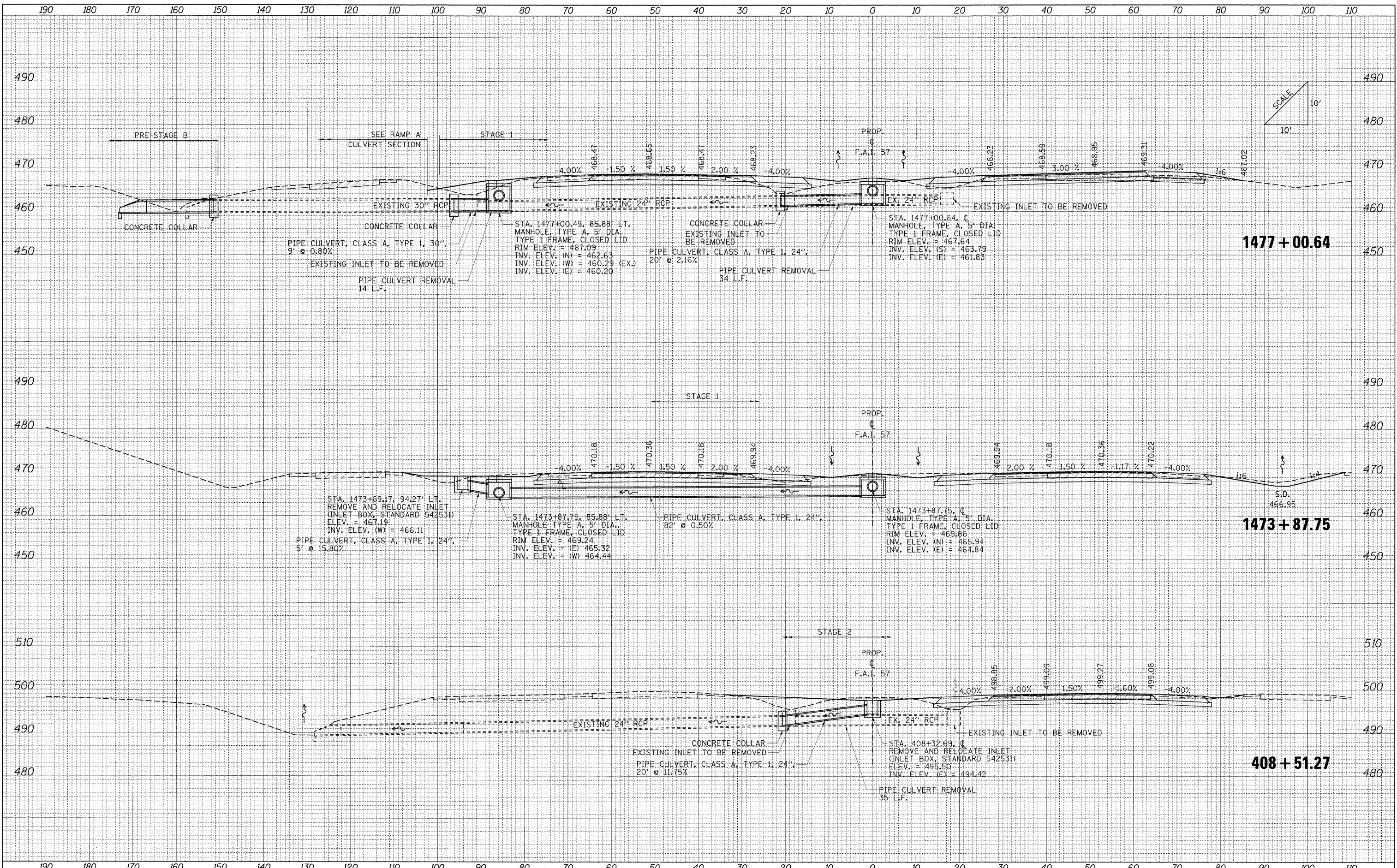
PROFILE VIEW



FILE NAME =	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED MEDIAN CROSSOVER: STA. 409 + 20			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 10/7/2011	DATE - 10/07/11	CHECKED - BJD	REVISED -		* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182						
					ILLINOIS FED. AID PROJECT							
					SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.					

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
TEMPLATE	
AREAS CHECKED	

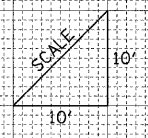
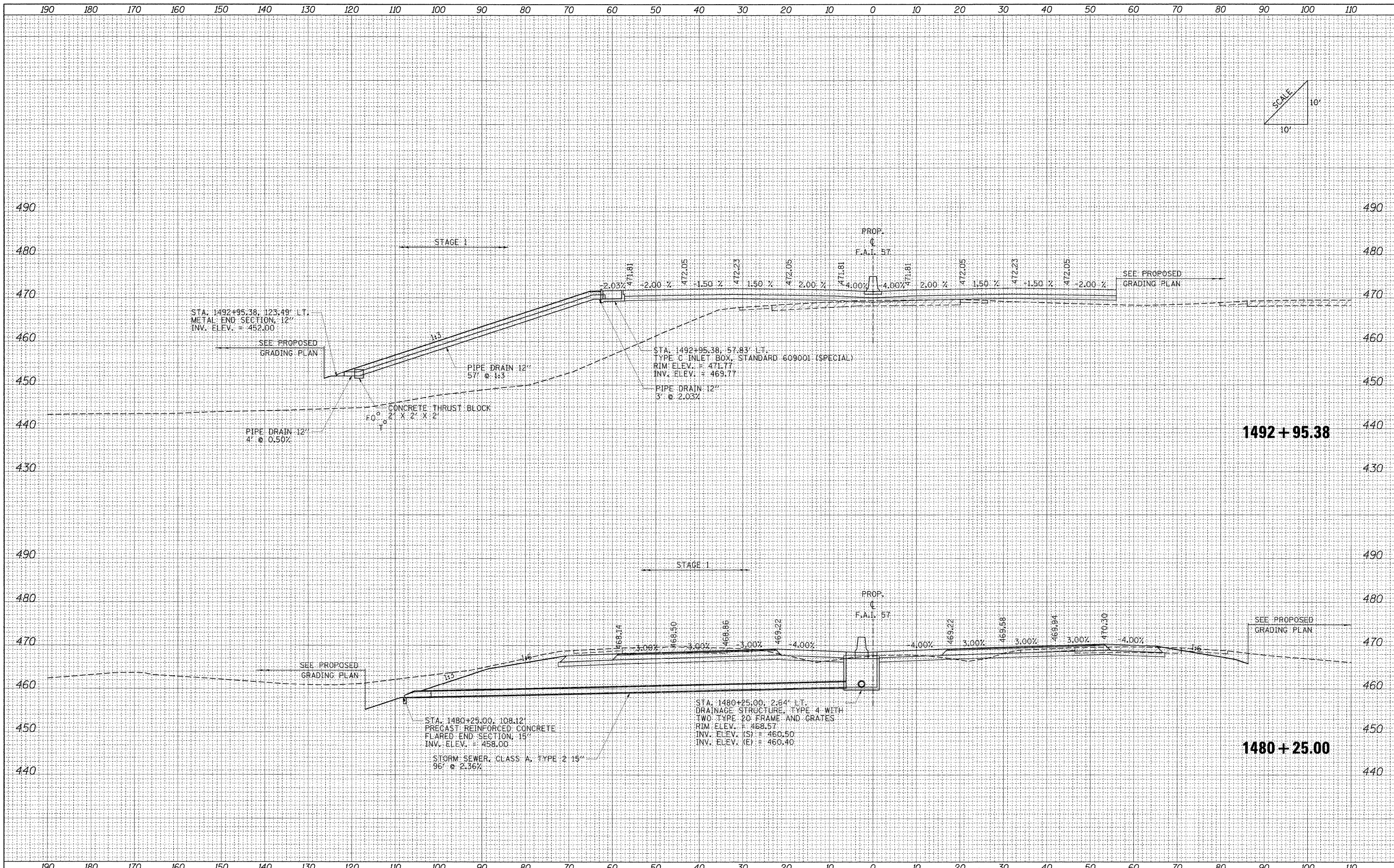
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		DRAWN - MJO	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA. 408+51.27	TO STA. 1477+00.64	WILLIAMSON	968	741	
		CHECKED - BJD	REVISED -							ILLINOIS			
		DATE - 10/07/11	REVISED -							CONTRACT NO. 78182			

FINAL SURVEY	DATE
SURVEYED	BY
TEMPLATE	
AREAS CHECKED	
NO.	

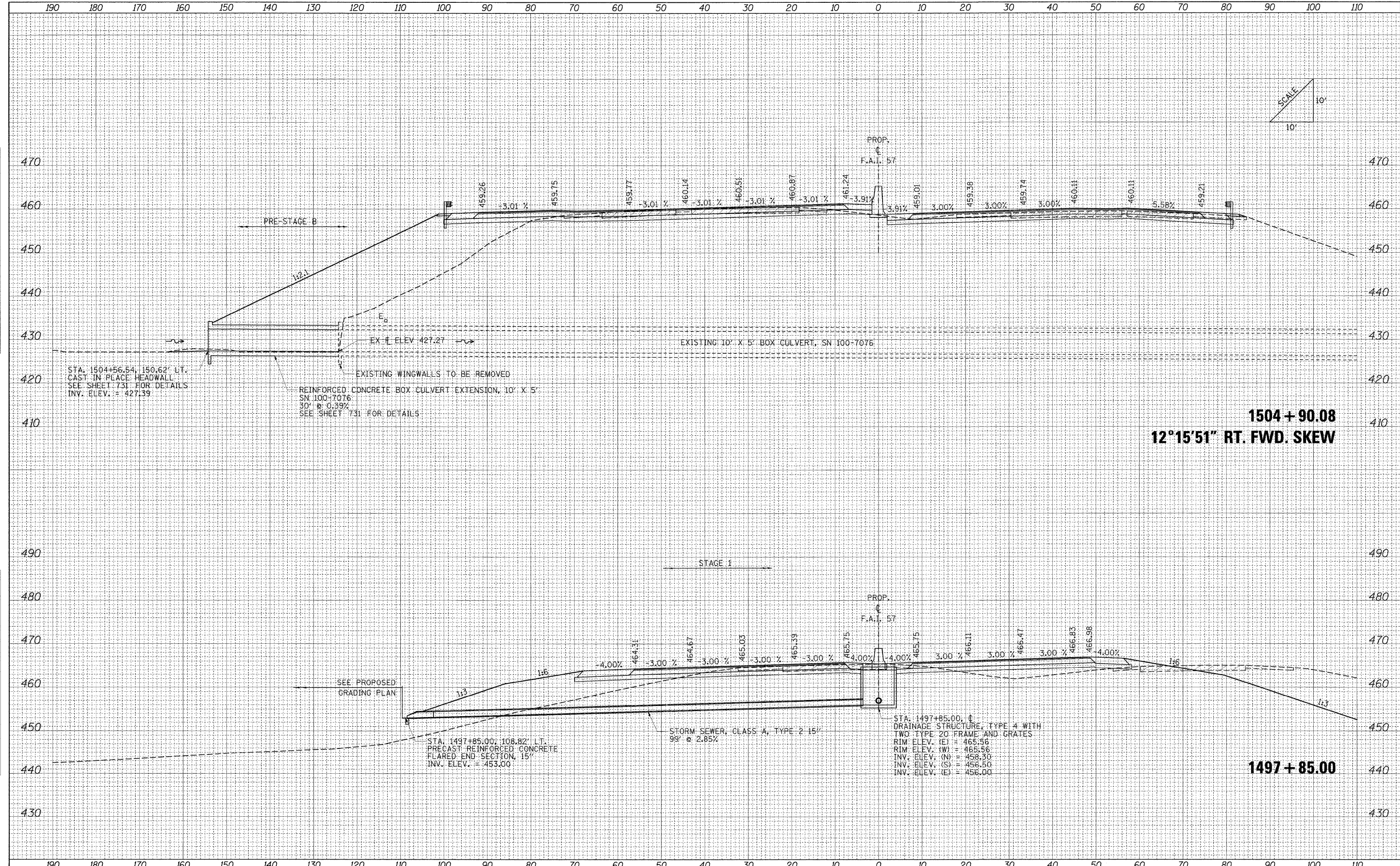
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PLCT DATE = 10/7/2011	CHECKED - BJD	REVISED -	* F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182				
DATE - 10/07/11	REVISED -		FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				
SCALE: SHEET NO. OF SHEETS STA. 1480+25.00 TO STA. 1492+95.38										

DATE	
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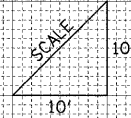
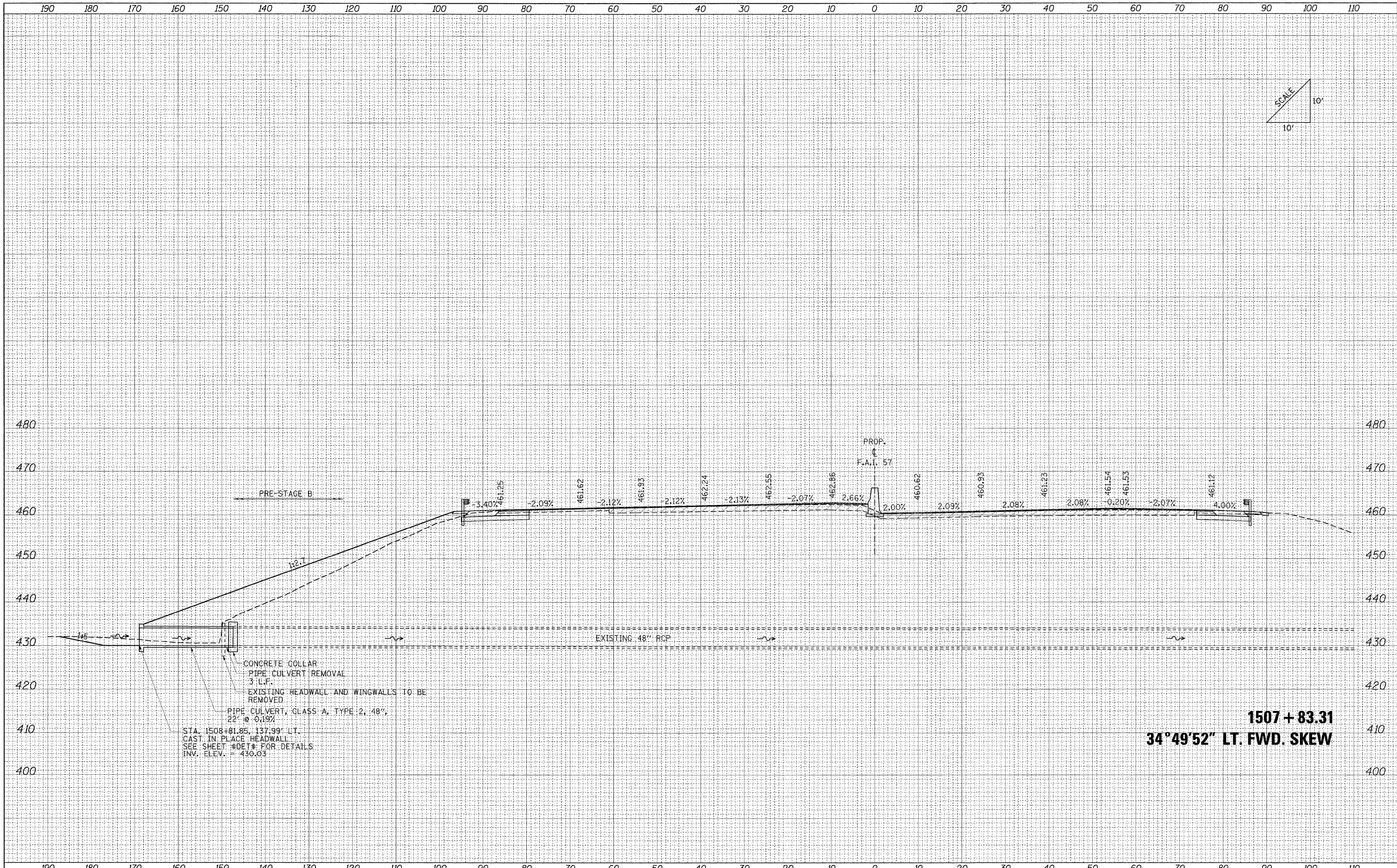
1504 + 90.08
12°15'51" RT. FWD. SKEW

1497 + 85.00

FILE NAME = ... \0978182-sh-t-XCS-CULVERT PROFILES.I57.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT PROFILES: F.A.I. 57	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 10/7/2011	CHECKED - BJD	REVISED -			* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
		DATE - 10/07/11	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

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DESIGNED	
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CONCRETE COLLAR
 PIPE CULVERT REMOVAL
 3' L.F.
 EXISTING HEADWALL AND WINGWALLS TO BE
 REMOVED
 PIPE CULVERT, GLASS A, TYPE 2, 48",
 22' @ 0.19%

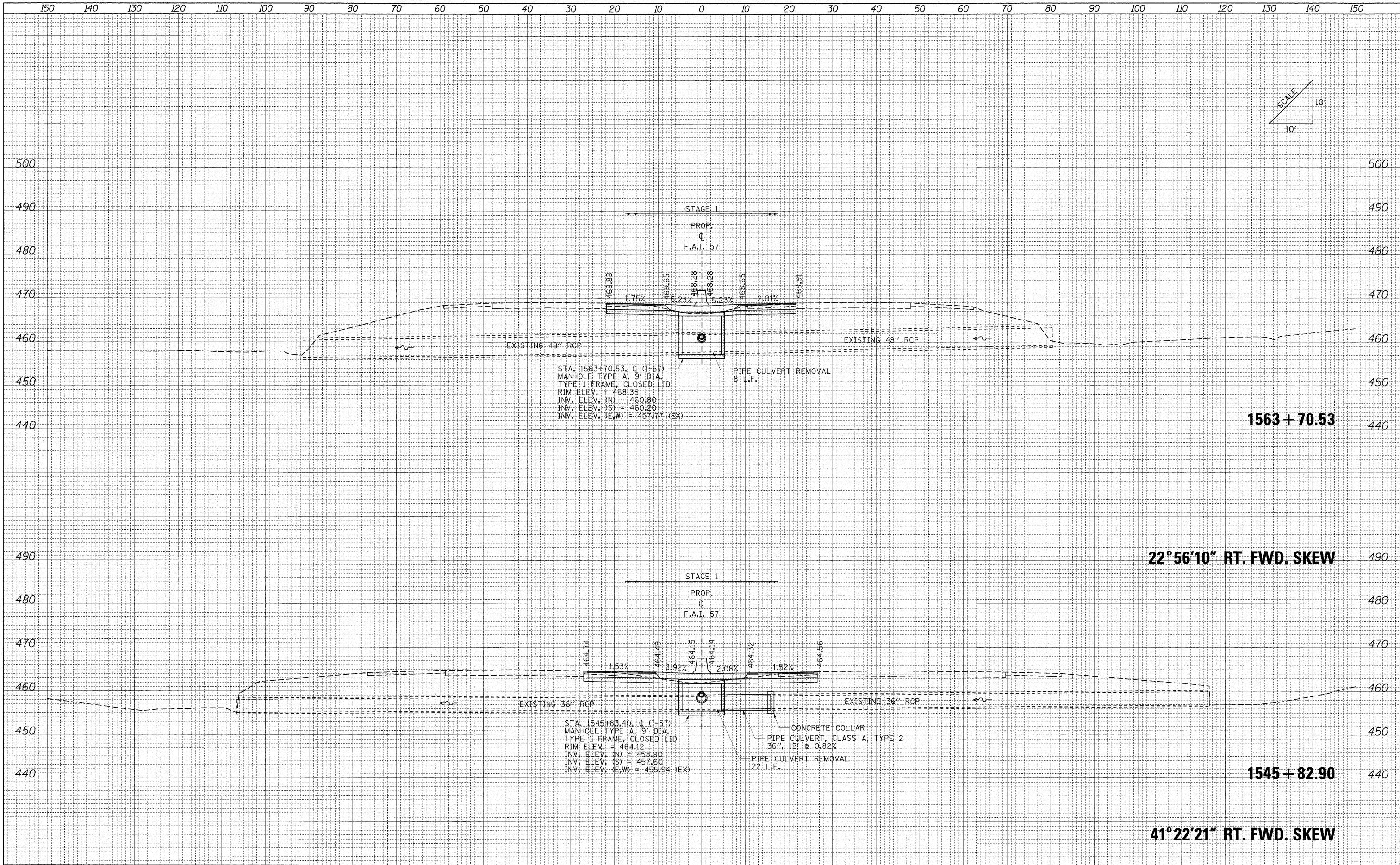
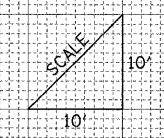
STA. 1508+81.85, 137.99' LT.
 CAST IN PLACE HEADWALL
 SEE SHEET #DET# FOR DETAILS
 INV. ELEV. = 430.03

1507 + 83.31
34°49'52" LT. FWD. SKEW

FILE NAME = ... \D978182-shc-XCS-CULVERT PROFILES.157.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT PROFILES: F.A.I. 57	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 10/7/2011	CHECKED - BJD	REVISED -			* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
		DATE - 10/07/11	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	
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DESIGNED	
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REVISIONS	
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DESCRIPTION	

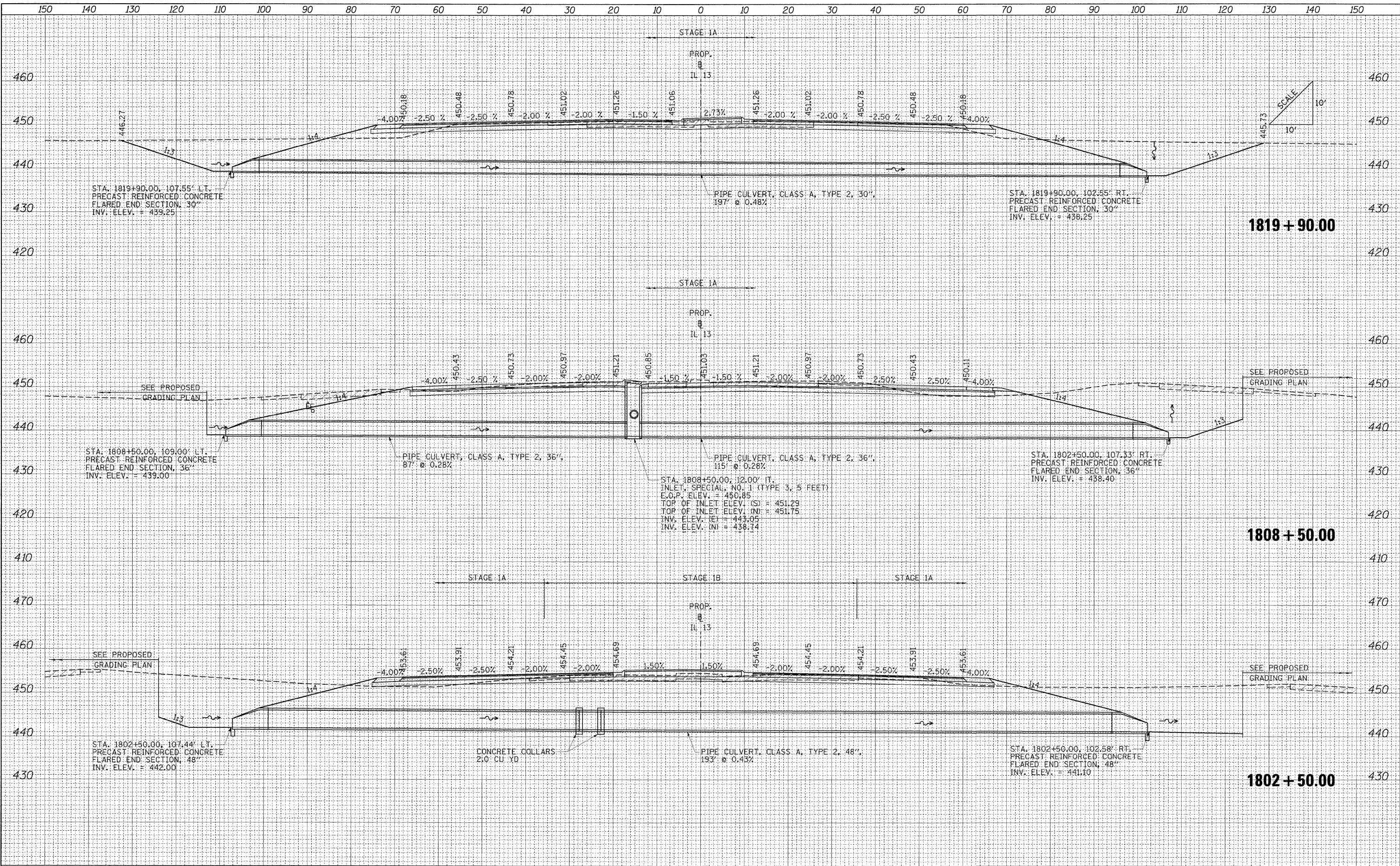
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REVISIONS	
NO.	
DESCRIPTION	



FILE NAME =	USER NAME = Rob Heady	DESIGNED - MJO	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT PROFILES: F.A.I. 57	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 10/7/2011	DATE - 10/07/11	CHECKED - BJD	REVISIONS -			* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
		DATE - 10/07/11	REVISIONS -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
SCALE:						SHEET NO.	OF	SHEETS	STA. 1545+82.90 TO STA. 1563+70.53	

DATE	
BY	
REVIEWED	
NOTED	
TEMPLATE	
AREAS	
CHECKED	
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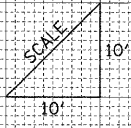
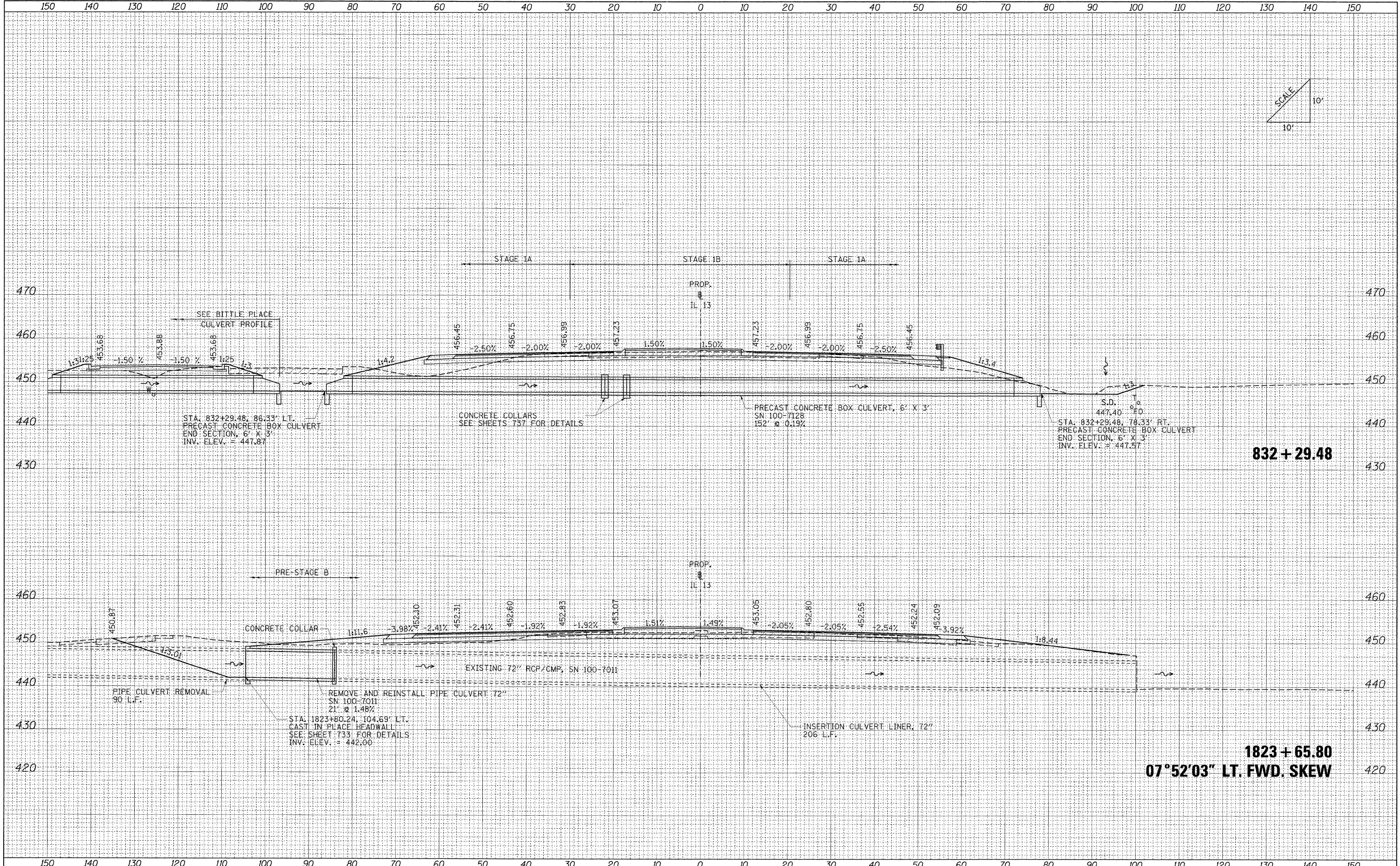
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		DRAWN - MJO	REVISD -		SCALE:	SHEET NO.	OF SHEETS	WILLIAMSON	968	746	
		CHECKED - BJD	REVISD -		STA. 1802+50.00 TO STA. 1819+90.00			* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182		
		DATE - 10/07/11	REVISD -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

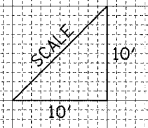
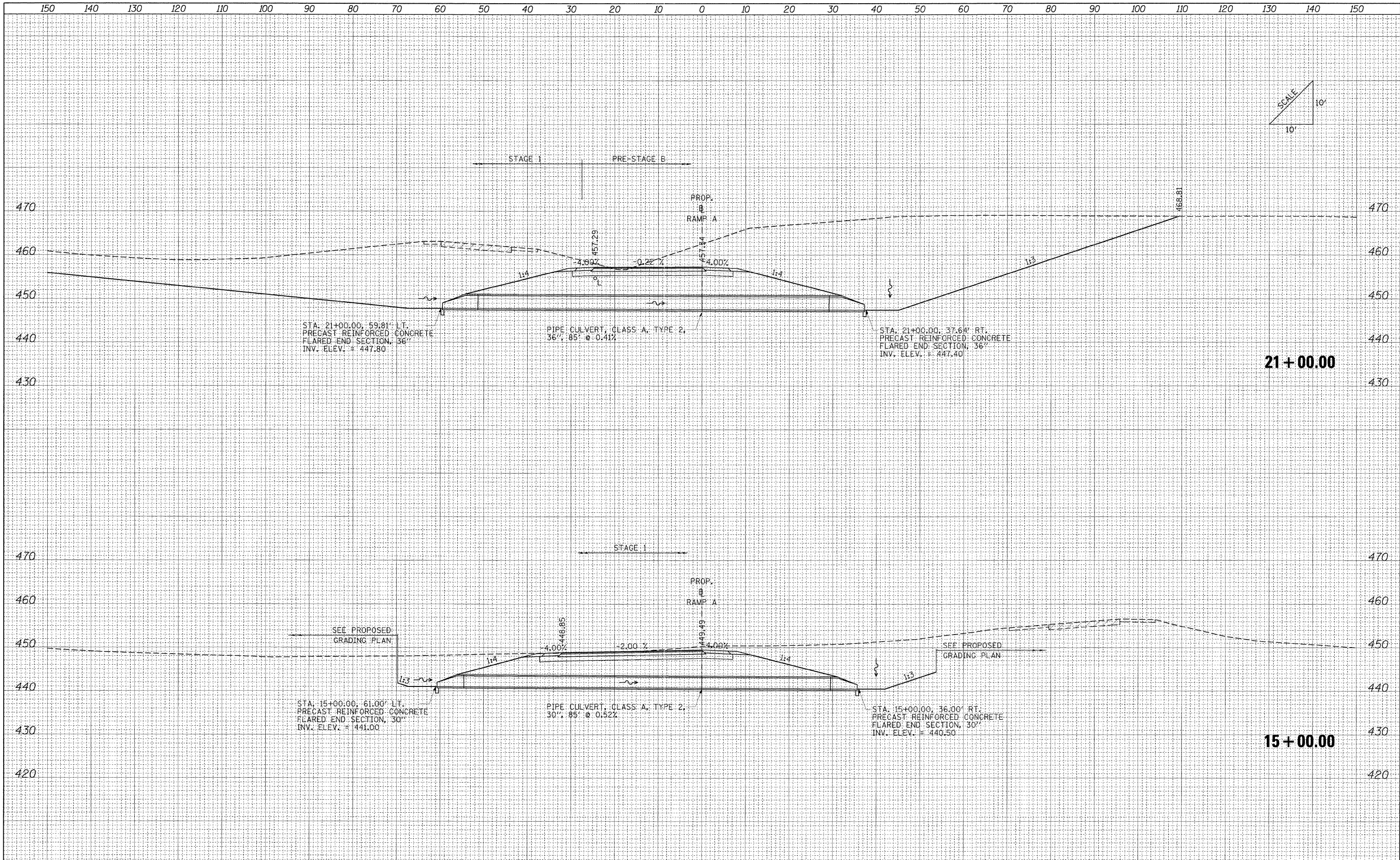
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



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PLOT SCALE = 10.0000' / IN.	CHECKED - BJD	REVISED -	• (X1-6-2)HBK-2, HB-1,2; (IX-1R-1			WILLIAMSON	968	747		
PLOT DATE = 10/07/2011	DATE - 10/07/11	REVISED -	• F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182				
			FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT			

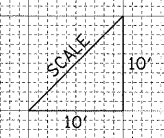
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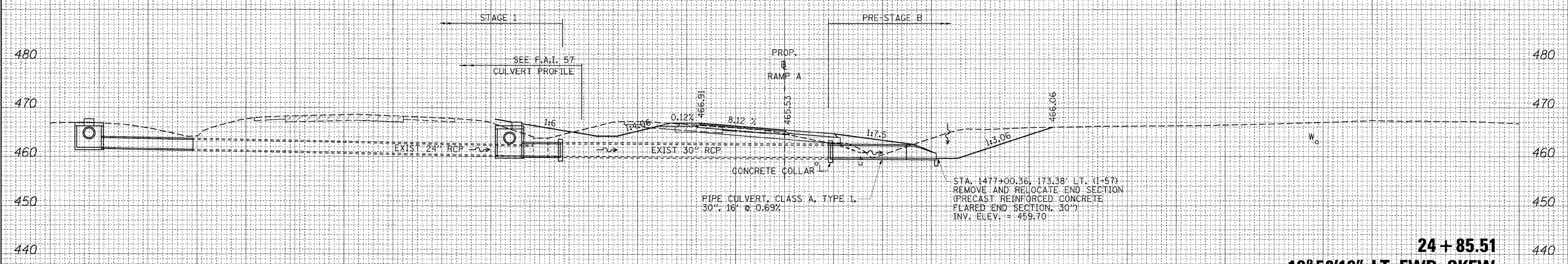
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... \D978182-stt-XCS-CULVERT PROFILES.RAMP.A.dgn		DRAWN - MJO	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. 15+00.00 TO STA. 21+00.00	(X1-6-2)HBK-2, HB-1,2; (X1-1R-1)	WILLIAMSON	968	748	
		CHECKED - BJD	REVISED -					* F.A.I. 57 AND F.A.P. 331				CONTRACT NO. 78182
		DATE - 10/07/11	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



DATE	BY
DESIGNED	BY
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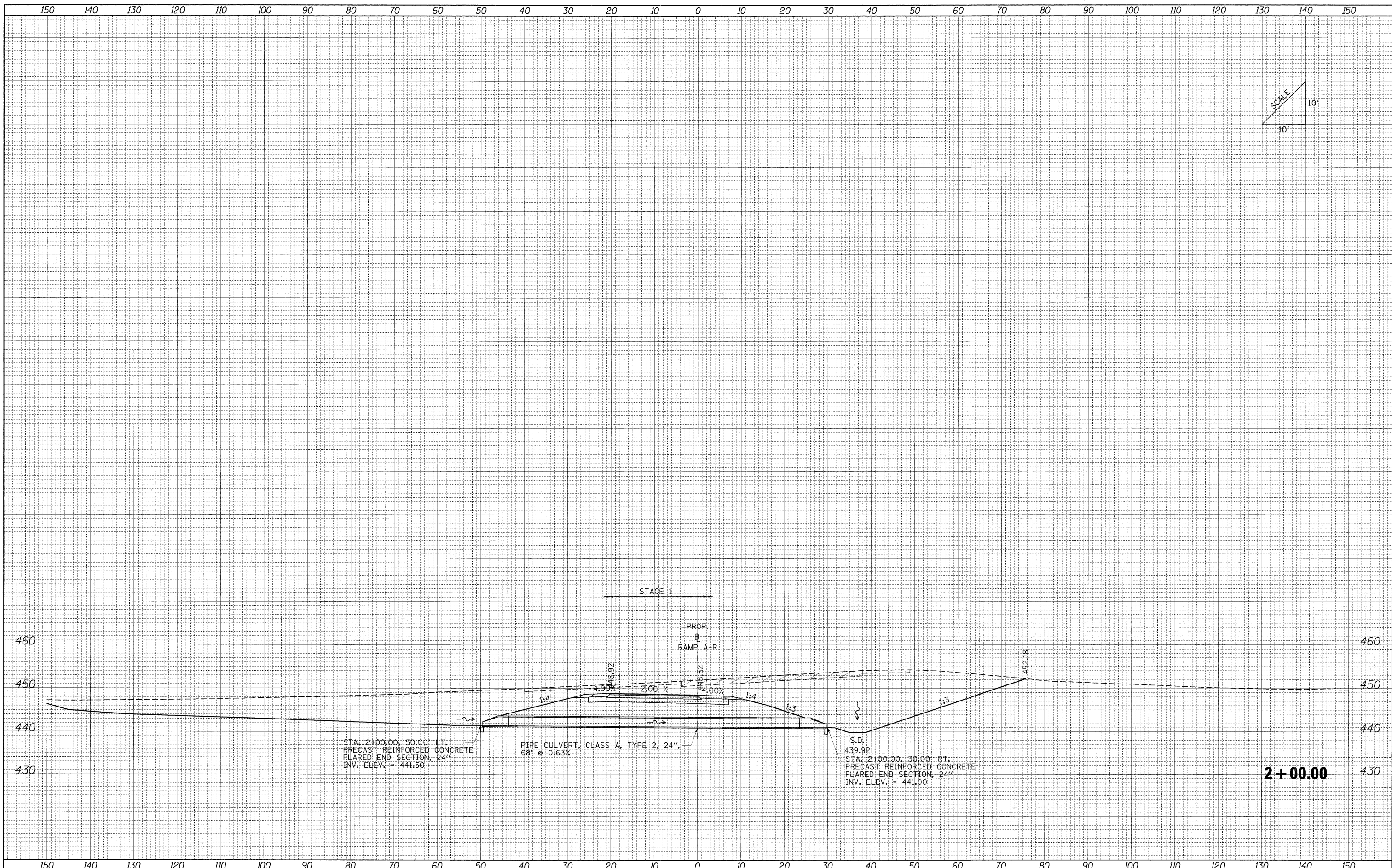


24 + 85.51
10° 58' 10" LT. FWD. SKEW

FILE NAME = ... \D978182-st1-XCS.CULVERT_PROFILES.RAMPA.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT PROFILES: RAMP A				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 10.0000' / IN.	DATE = 10/07/11	DRAWN - MJO	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 24+85.51	TO STA. 24+85.51	WILLIAMSON	968	749
PLOT DATE = 10/7/2011		CHECKED - BJD	REVISED -								CONTRACT NO. 78182		
		DATE - 10/07/11	REVISED -								ILLINOIS FED. AID PROJECT		

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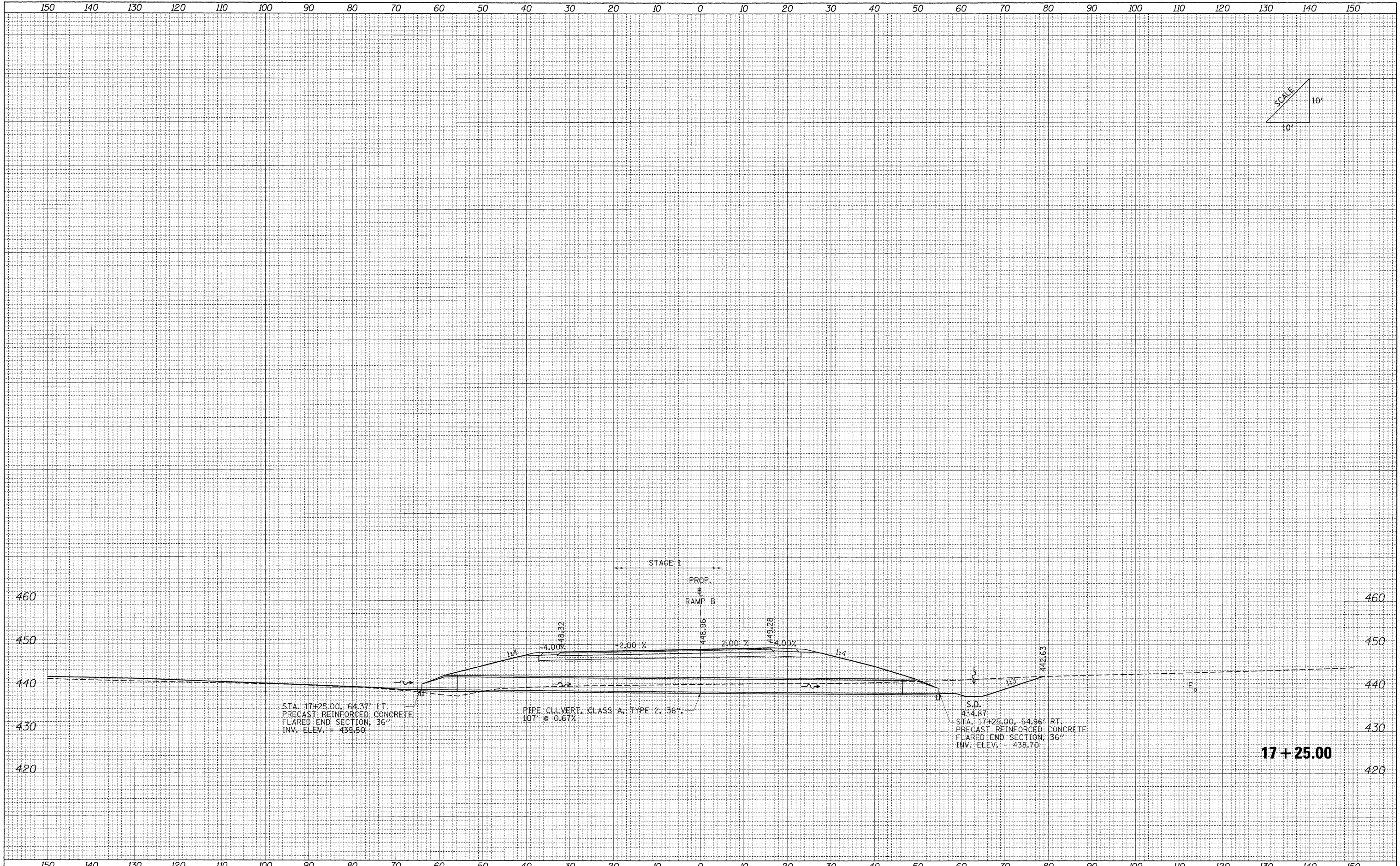
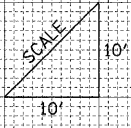
DATE	
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REVISIONS	
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FILE NAME =	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT PROFILES: RAMP A-R	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\D978182-shr-XCS_CULVERT_PROFILES_RAMPAL.dgn	PLOT SCALE = 10.0000' / IN.	DRAWN - MJO	REVISED -			* (X1-6-2)HBK-2, HB-1,2; (X1-1)R-1	WILLIAMSON	968	750	
	PLOT DATE = 12/7/2011	CHECKED - BJD	REVISED -			* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
		DATE - 10/07/11	REVISED -			FED. ROAD DIST. NO.	[ILLINOIS] FED. AID PROJECT			

DATE	
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FINAL SURVEY	
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ORIGINAL SURVEY	
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NOTE BOOK	
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STA. 17+25.00, 64.37' LT.
 PRECAST REINFORCED CONCRETE
 FLARED END SECTION, 36"
 INV. ELEV. = 439.50

PIPE CULVERT, CLASS A, TYPE 2, 36"
 107' @ 0.67%

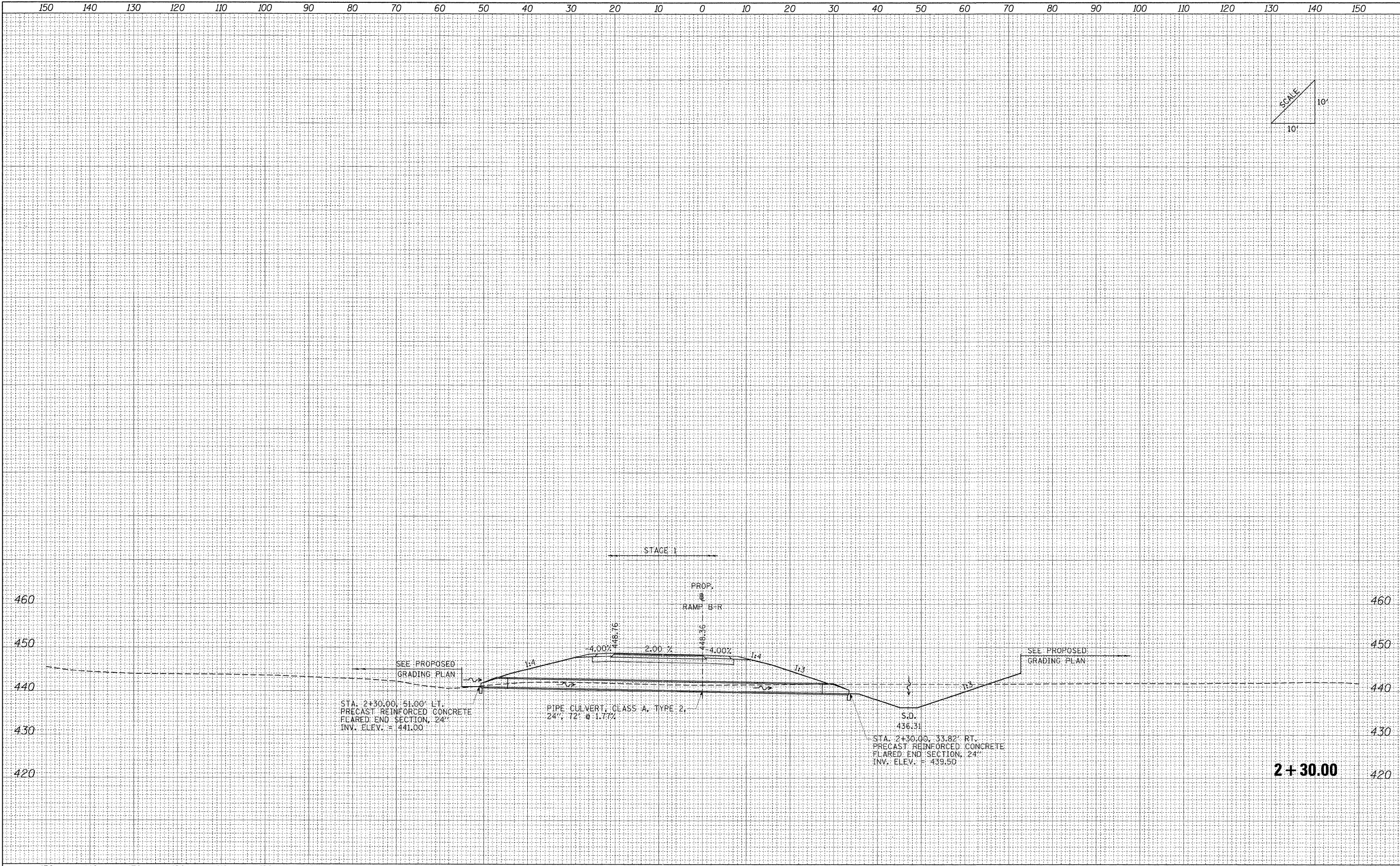
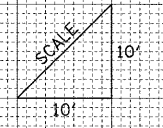
S.D.
 434.87
 STA. 17+25.00, 54.96' RT.
 PRECAST REINFORCED CONCRETE
 FLARED END SECTION, 36"
 INV. ELEV. = 438.70

17 + 25.00

FILE NAME =	USER NAME = Brad Downen	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT PROFILES: RAMP B				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...ND978182-shr-XCS.CULVERT PROFILES_RAMPB.dgn	PLOT SCALE = 10.0000' / IN.	DRAWN - MJO	REVISED -		• (X1-6-2)HBK-2, HB-1,2; (IX-1R-1	WILLIAMSON	968	751					
PLOT DATE = 10/10/2011	DATE - 10/07/11	CHECKED - BJD	REVISED -		• F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182							
		DATE - 10/07/11	REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT							
					SCALE:	SHEET NO.	OF	SHEETS	STA. 17+25.00	TO STA. 17+25.00			

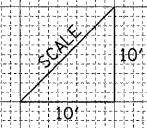
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SURVEYED	BY
NOTE BOOK	NO.
TEMPLATE	AREAS CHECKED

ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	NO.
TEMPLATE	AREAS CHECKED



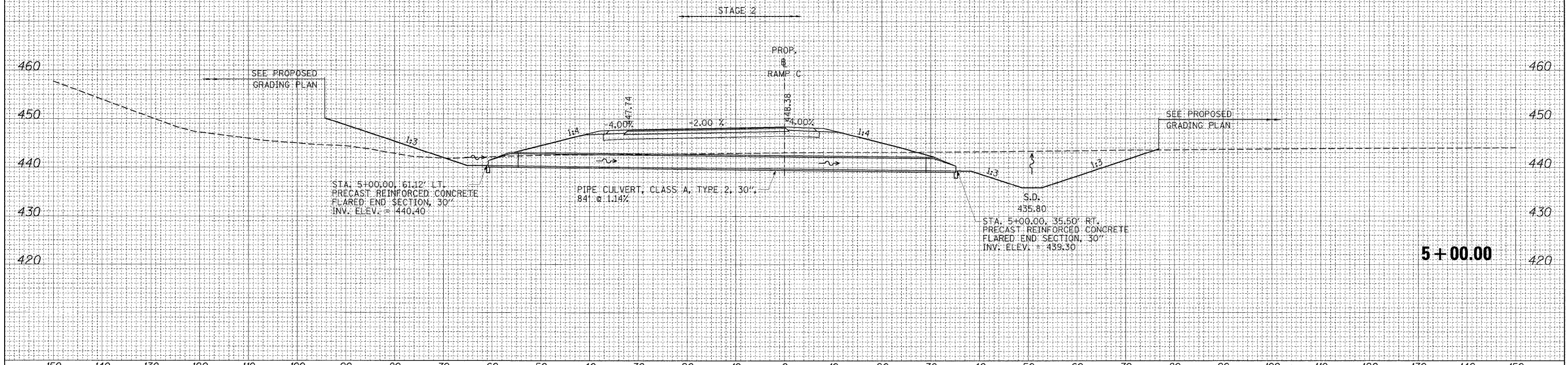
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PLOT SCALE = 10.0000' / IN.	DRAWN - MJO	CHECKED - BJD	REVISED -			* I(XI-6-2)HBK-2, HB-1,2; (IX-1)R-1	WILLIAMSON	968	752	
PLOT DATE = 10/7/2011	DATE - 10/07/11	REVISED -	REVISED -			* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
SCALE: SHEET NO. OF SHEETS STA. 2+30.00 TO STA. 2+30.00										

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



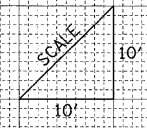
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NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS CHECKED		

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NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS CHECKED		



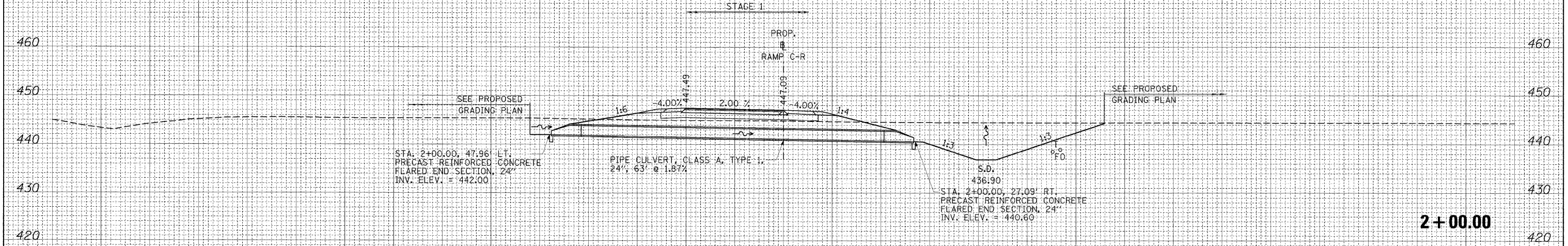
FILE NAME =	USER NAME = Brad Downen	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT PROFILES: RAMP C				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\D978182-sh1-KCS.CULVERT PROFILES.RAMP.C.dgn		DRAWN - MJO	REVISED -		• (X1-6-2)HBK-2, HB-1,2; (IX-1R-1	WILLIAMSON	968	753					
PLOT SCALE = 10,0000' / IN.		CHECKED - BJD	REVISED -		• F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182					
PLOT DATE = 10/10/2011		DATE - 10/07/11	REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT							
					SCALE:	SHEET NO.	OF	SHEETS	STA. 5+00.00	TO STA. 5+00.00			

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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ORIGINAL SURVEY	
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PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FILE NAME = ...D978182-sht-XCS_CULVERT_PROFILES_RAMPCI.dgn

USER NAME = Brad Downan
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = 10/10/2011

DESIGNED - MJO
 DRAWN - MJO
 CHECKED - BJD
 DATE - 10/07/11

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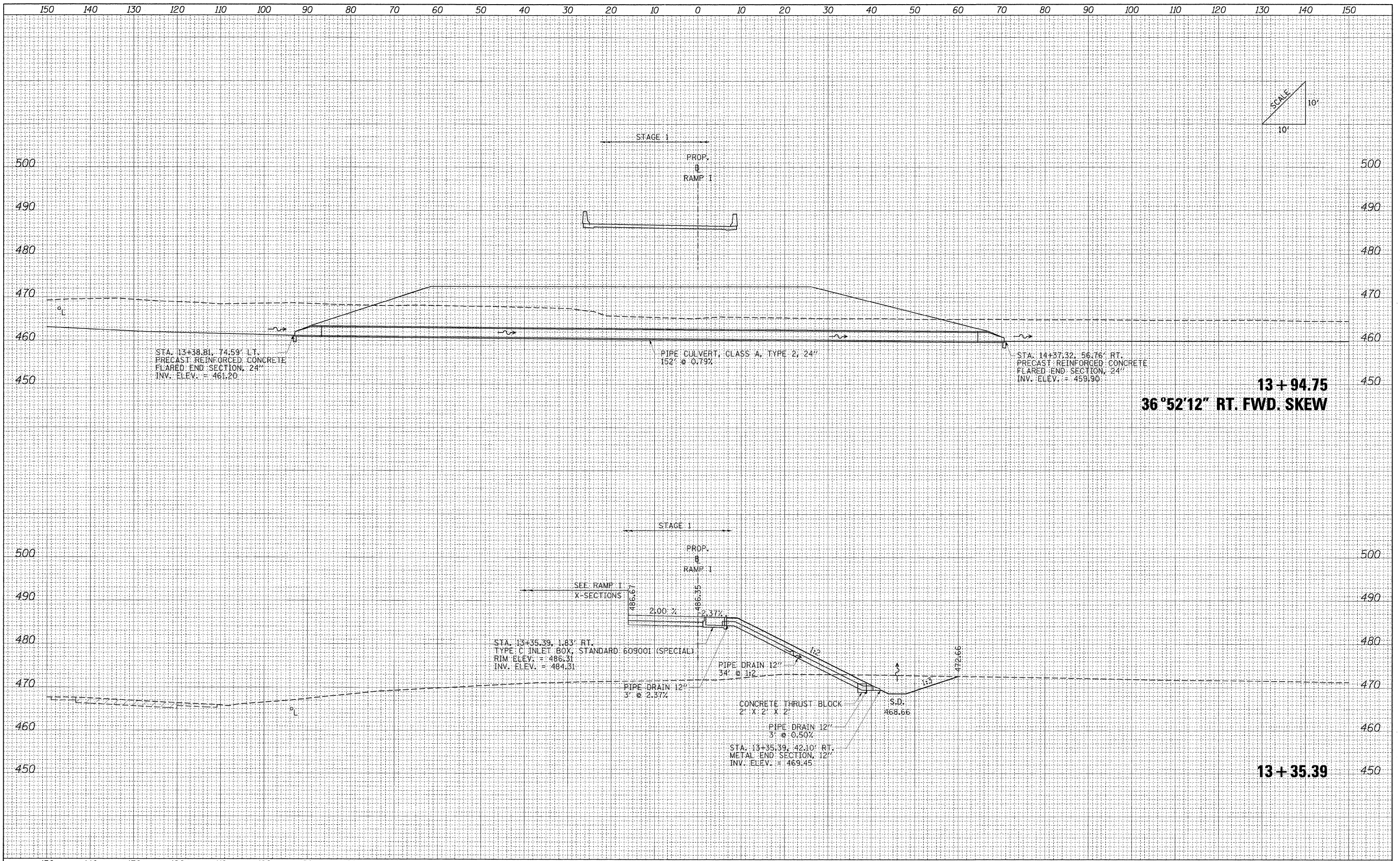
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CULVERT PROFILES: RAMP C-R
 SCALE: SHEET NO. OF SHEETS STA. 2+00.00 TO STA. 2+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	[X1-6-2HBK-2, HB-1,2; (1X-1R-1]	WILLIAMSON	968	754
* F.A.I. 57 AND F.A.P. 331		CONTRACT NO. 78182		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
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FINAL SURVEY	
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NOTE BOOK	
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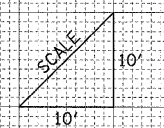
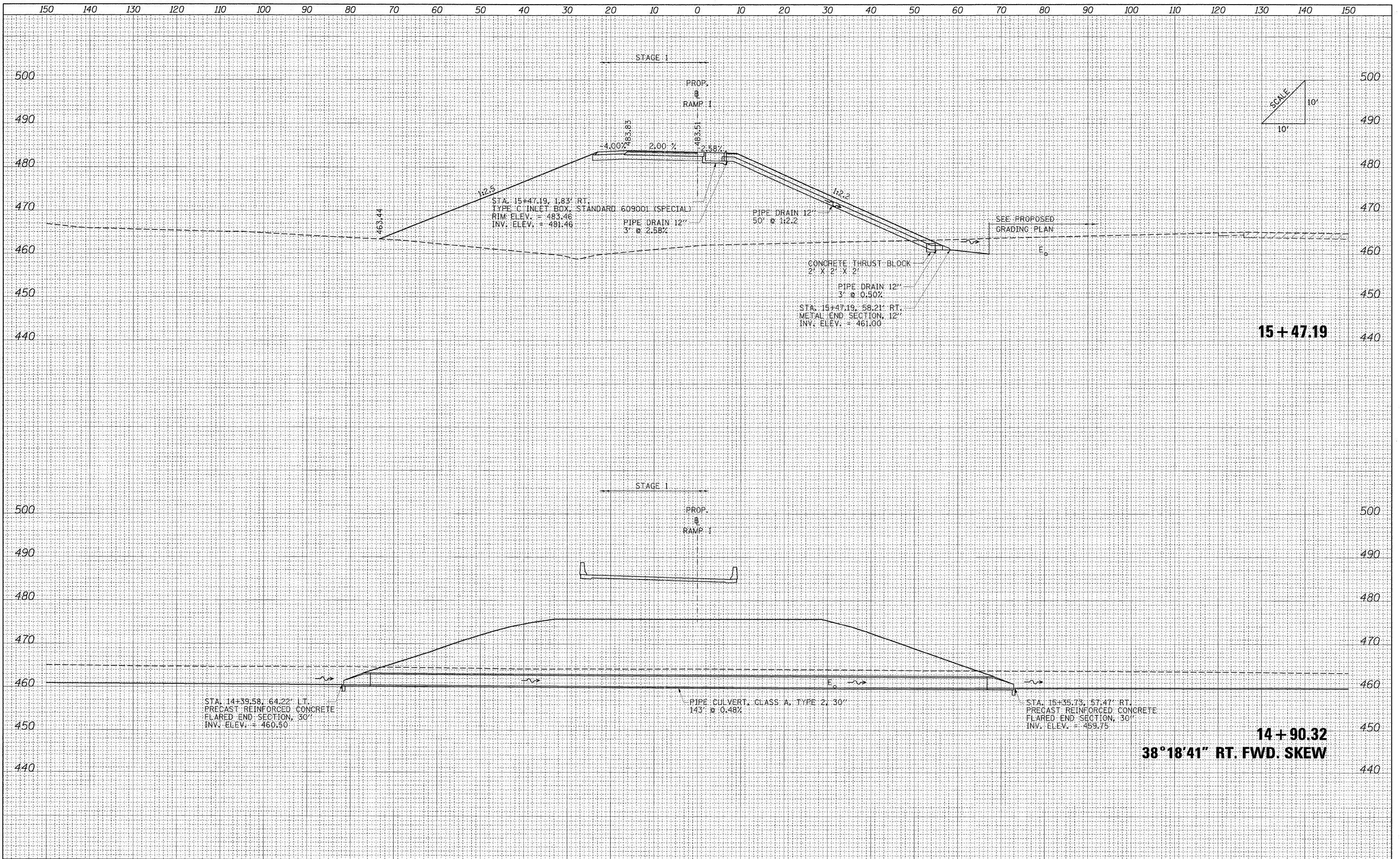
DATE	
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ORIGINAL SURVEY	
SURVEYED	
PLotted	
NOTE BOOK	
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		DRAWN - MJO	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 13+35.39	TO STA. 13+94.75	WILLIAMSON	968	756
		CHECKED - BJD	REVISED -								CONTRACT NO. 78182		
		DATE - 10/07/11	REVISED -								ILLINOIS FED. AID PROJECT		

DATE	
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FINAL SURVEY	
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NOTE BOOK	
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ORIGINAL SURVEY	
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NOTE BOOK	
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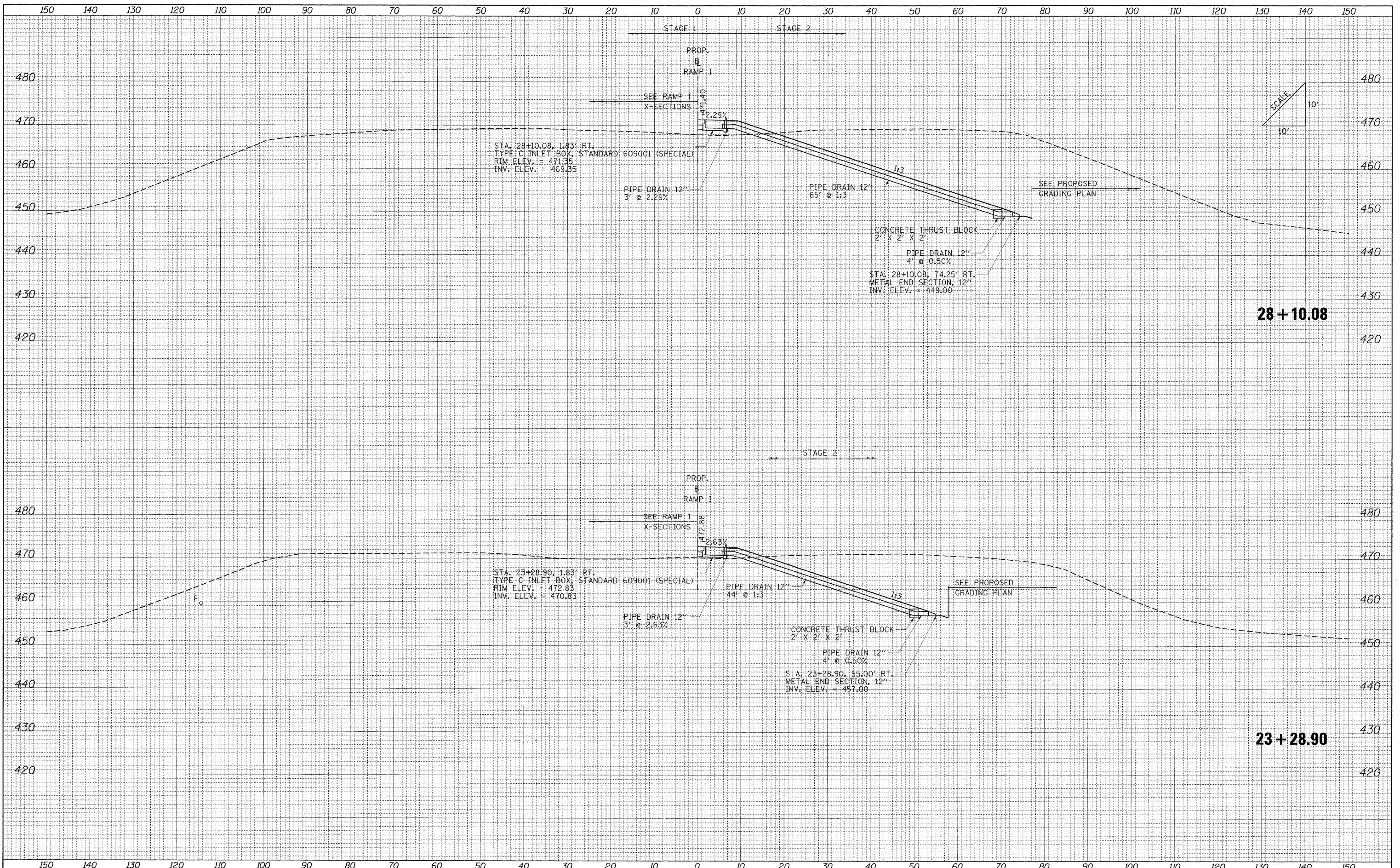
15 + 47.19

14 + 90.32
38°18'41" RT. FWD. SKEW

FILE NAME = ...D978182-shr-XCS_CULVERT_PROFILES_RAMP1.dgn	USER NAME = Brad Downen	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT PROFILES: RAMP I				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MJO	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 14+90.32	TO STA. 15+47.19	WILLIAMSON	968	757
		CHECKED - BJD	REVISED -								CONTRACT NO. 78182		
		DATE - 10/07/11	REVISED -								ILLINOIS FED. AID PROJECT		

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FILE NAME = ...D978162-shr-XCS-CULVERT PROFILES_RAMP1.dgn

USER NAME = Brad Downen

DESIGNED - MJO
 DRAWN - MJO
 CHECKED - BJD
 DATE - 10/07/11

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

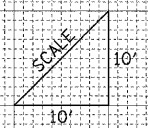
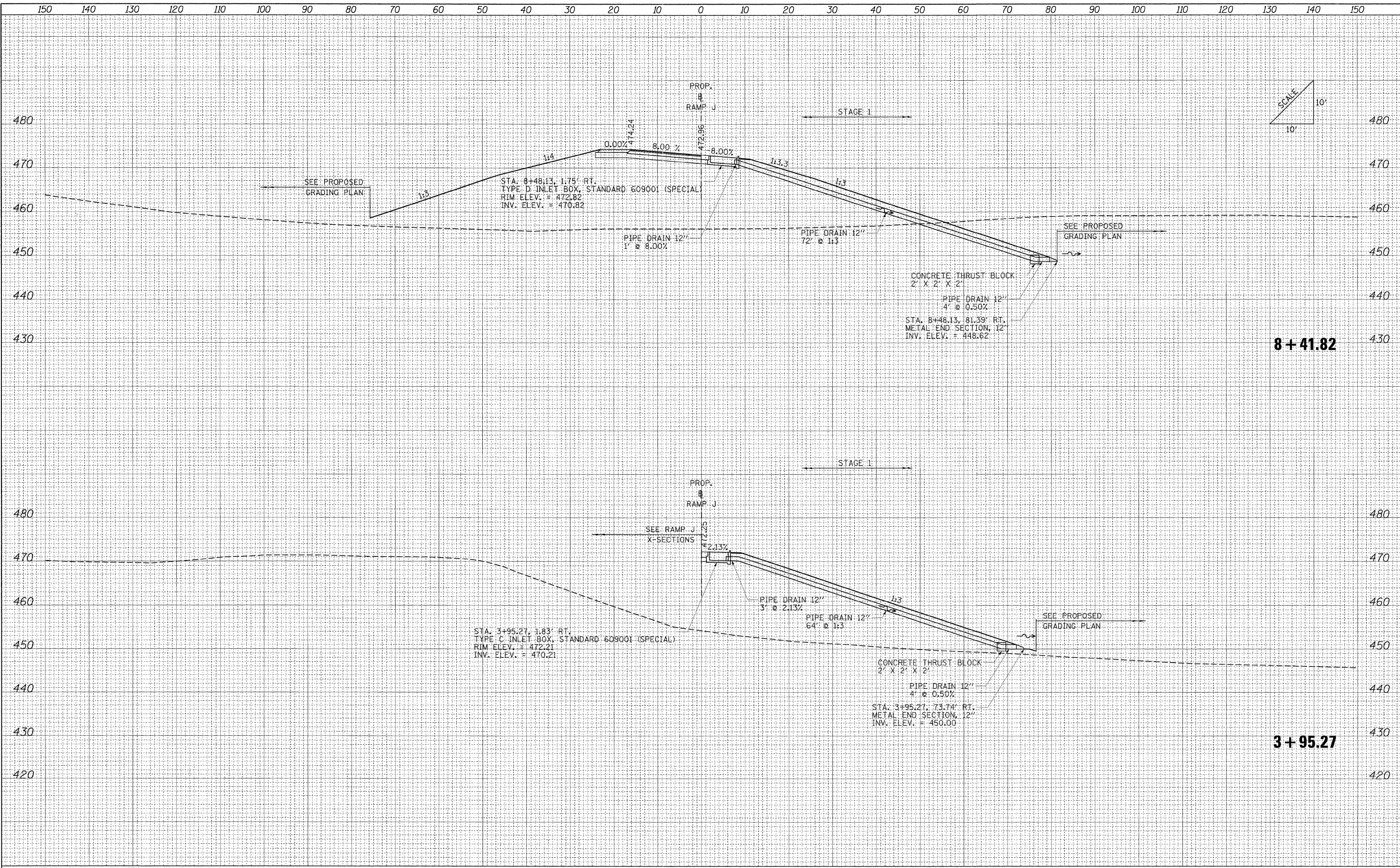
CULVERT PROFILES: RAMP I

SCALE: SHEET NO. OF SHEETS STA. 23+28.90 TO STA. 28+10.08

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(X1-6-2)HBK-2, HB-1,2; (1X-1)R-1	WILLIAMSON	968	758
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78182	

DATE	
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FINAL SURVEY	
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NOTE BOOK	
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ORIGINAL SURVEY	
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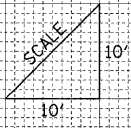
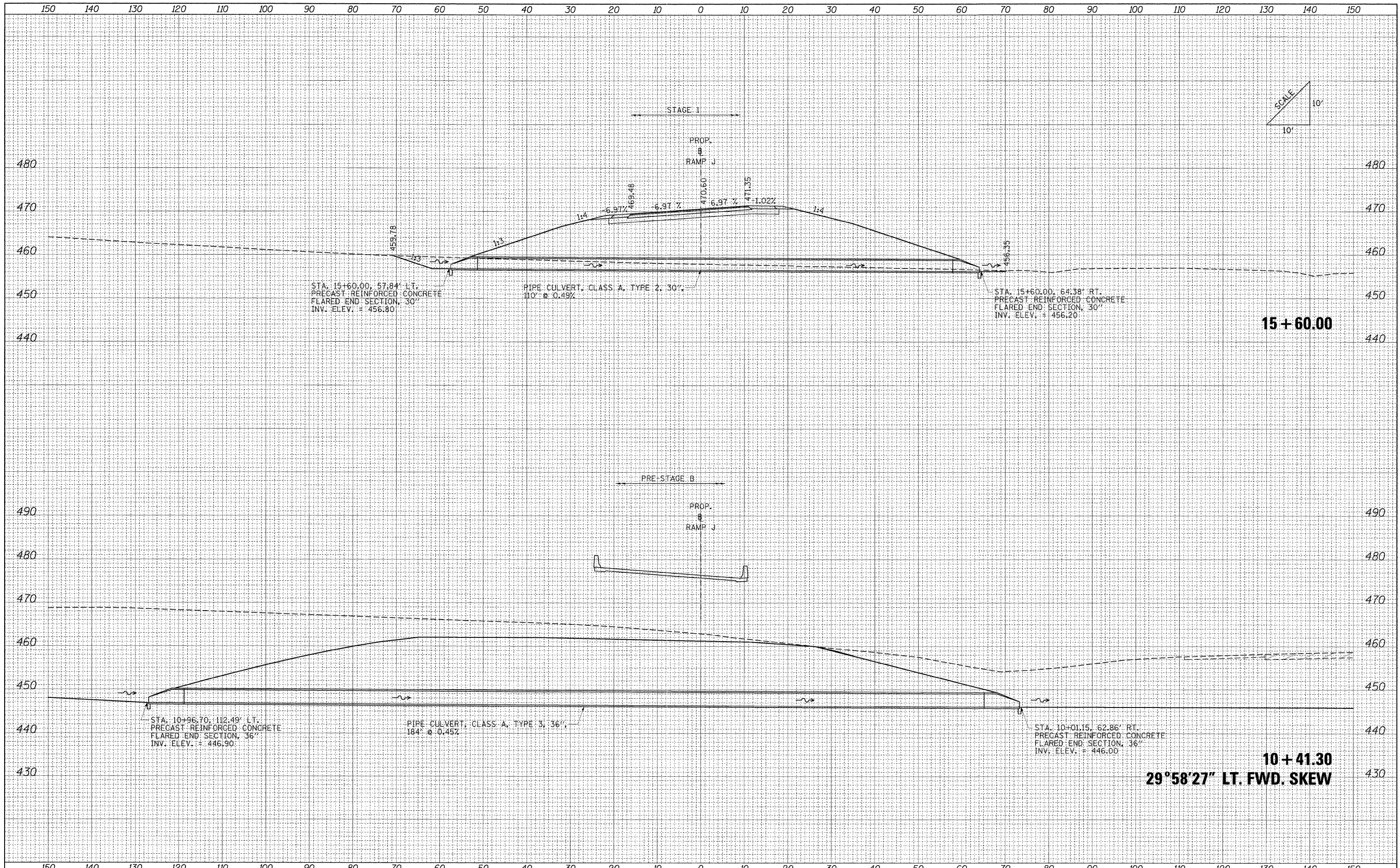
8 + 41.82

3 + 95.27

FILE NAME =	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT PROFILES: RAMP J			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
... \D978162-shr-XCS_CULVERT_PROFILES.RAMP.J.dgn		DRAWN - MJO	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	57	(X1-6-2)HRK-2, HB-1.2; (IX-1)R-1	WILLIAMSON	968	759
PLOT SCALE = 10.0000' / IN.		CHECKED - BJD	REVISED -		STA. 3+95.27	TO STA.	8+41.82	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				
PLOT DATE = 10/7/2011		DATE - 10/07/11	REVISED -										

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	REPLATE
NO.	AREAS CHECKED

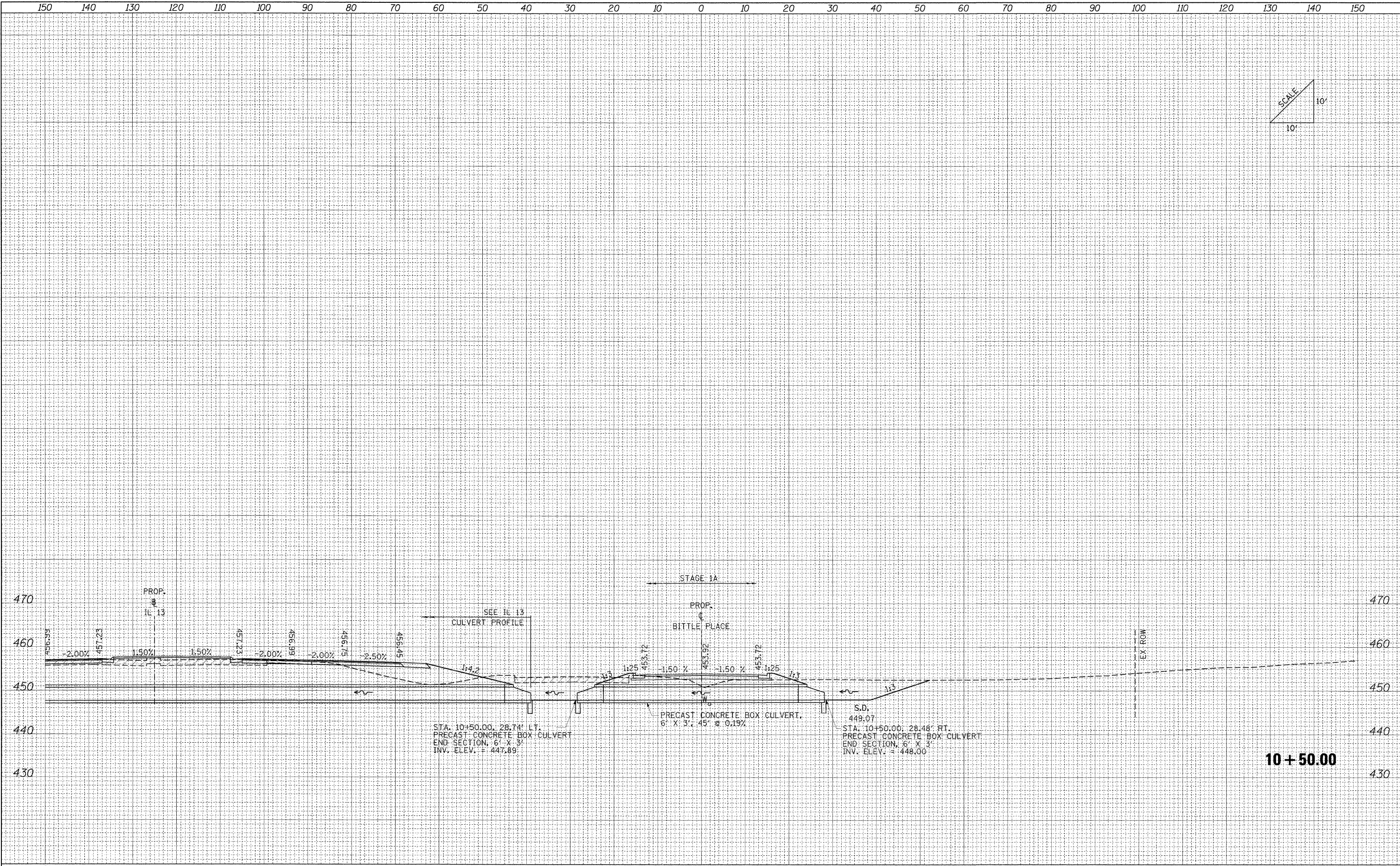
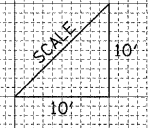
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	REPLATE
NO.	AREAS CHECKED



FILE NAME = ...10978182-sh-t-XCS_CULVERT_PROFILES_RAMPJ.dgn	USER NAME - Brad Downen	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT PROFILES: RAMP J			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
	PLOT SCALE = 10,0000' / IN.	DRAWN - MJO	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 10+41.30	TO STA. 15+60.00	57	(X1-6-2)HBK-2, HB-1,2; (IX-1R-1	WILLIAMSON	968	760
	PLOT DATE = 10/10/2011	CHECKED - BJD	REVISED -									CONTRACT NO. 78182			
		DATE - 10/07/11	REVISED -									ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		



FILE NAME =	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -
... \D979182-sh-XCS.CULVERT PROFILES.BITTLE PLACE.dgn		DRAWN - MJO	REVISED -
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	PLOT DATE = 10/7/2011	DATE - 10/07/11	REVISED -

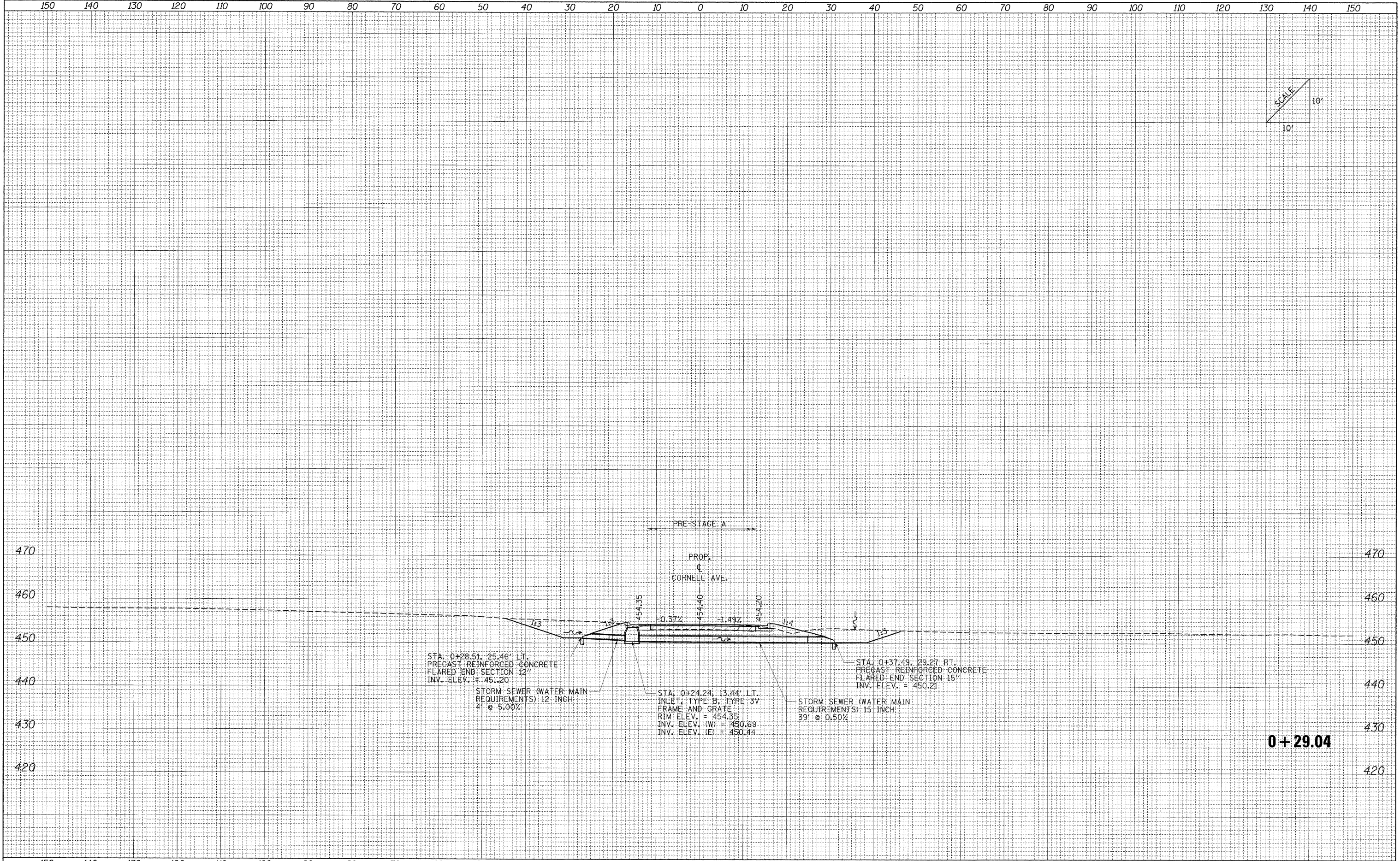
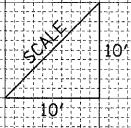
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CULVERT PROFILES: BITTLE PLACE	
SCALE:	SHEET NO. OF SHEETS STA. 10+50.00 TO STA. 10+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* (X1-6-2)HBK-2, HB-1,2; (IX-1)R-1	WILLIAMSON	968	761	
* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
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NOTE BOOK	
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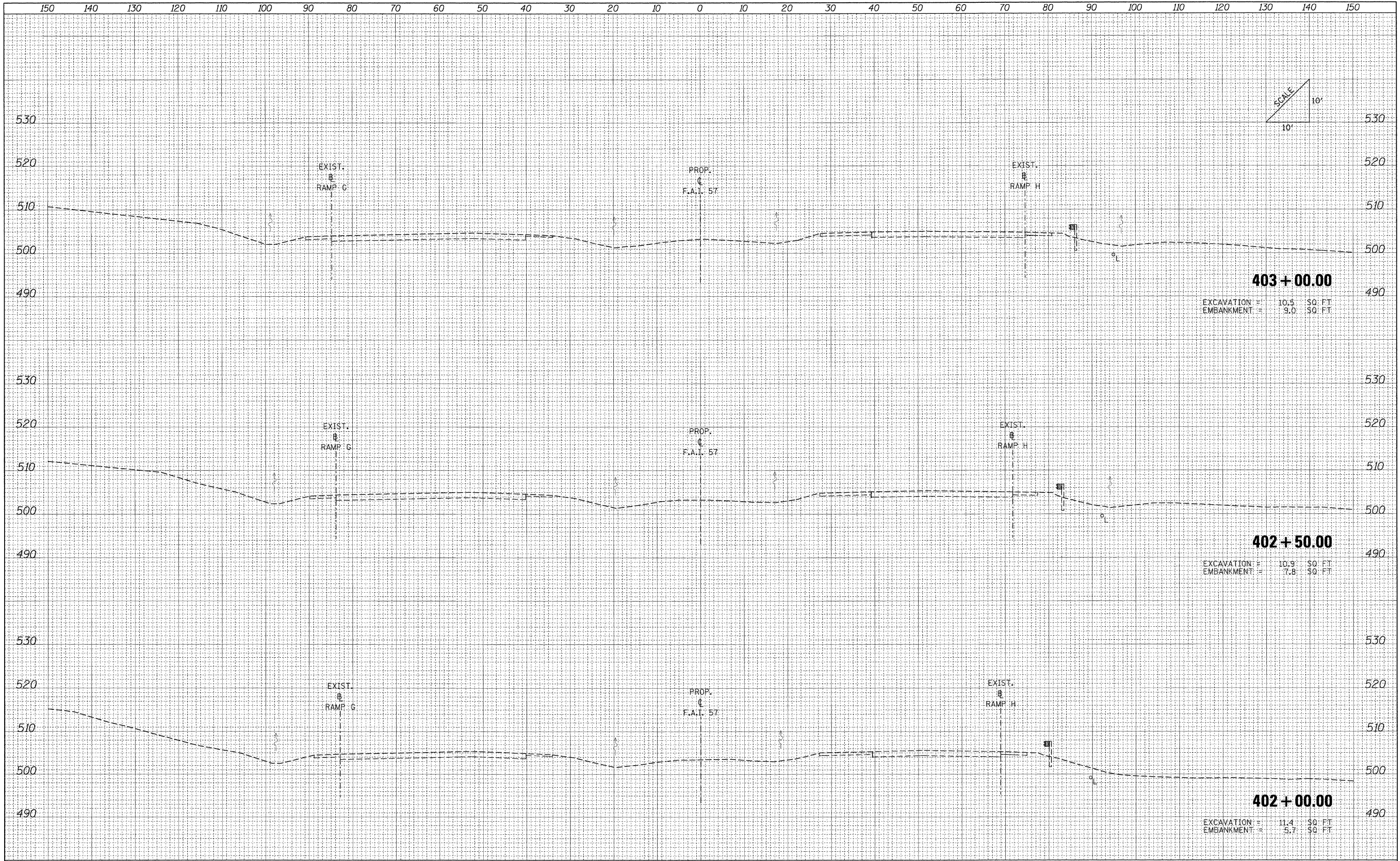


0+29.04

FILE NAME =	USER NAME = Brad Downen	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT PROFILES: CORNELL AVENUE				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...D978182-shr-XCS_CULVERT_PROFILES_CORNELL.dwg		DRAWN - MJO	REVISED -		• (X1-6-2)HBK-2, HB-1,2; (1X-1)R-1	WILLIAMSON	968	762					
		CHECKED - BJD	REVISED -		• F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182							
		DATE - 10/07/11	REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET NO.	OF	SHEETS	STA. 0+29.04	TO STA. 0+29.04				

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FINAL SURVEY	
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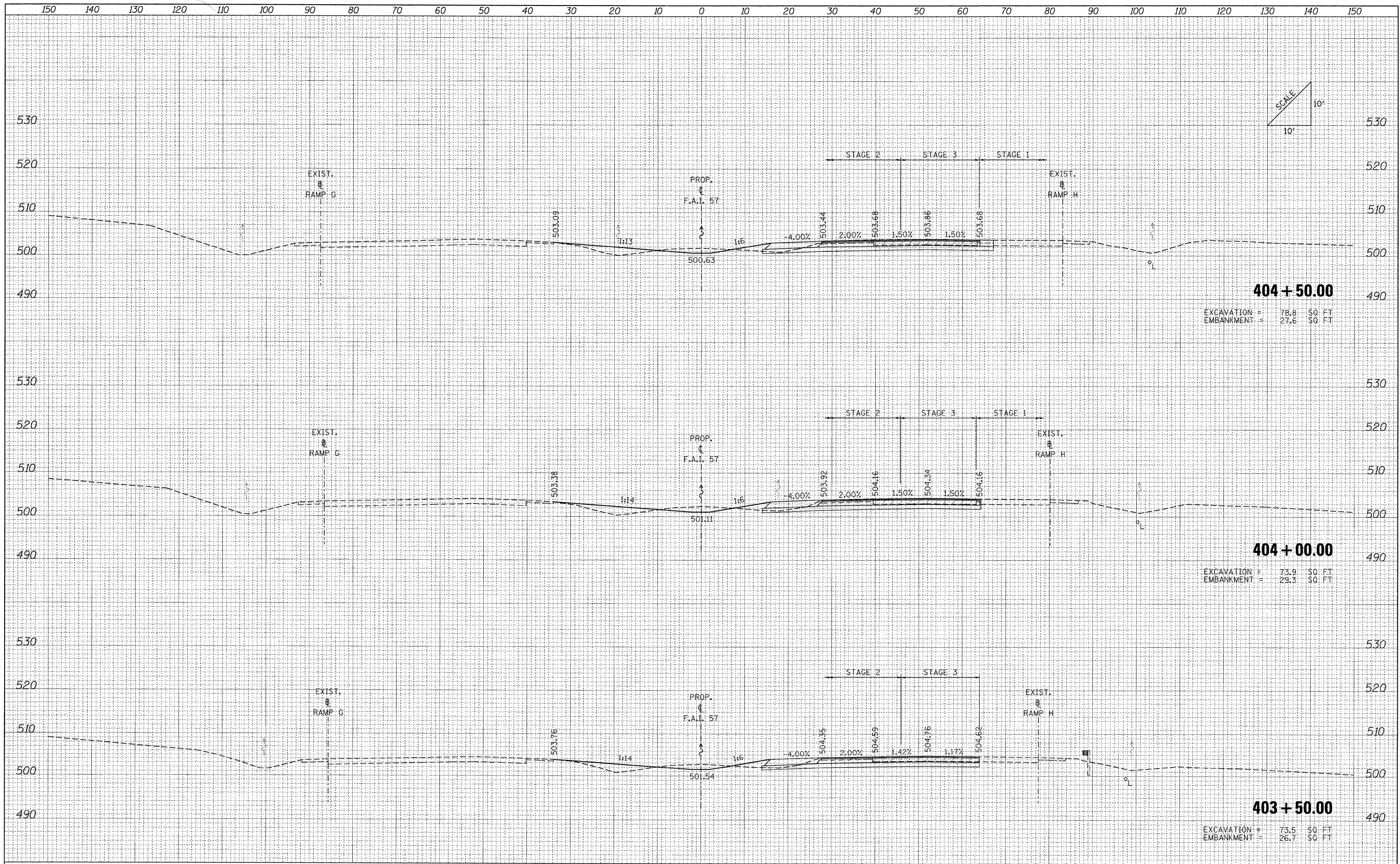
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ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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FILE NAME = ...N0970182-sh1-XCS.I57.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 10.0000' / IN.	DRAWN - MJO	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 402+00.00 TO STA. 403+00.00	• (X1-6-2)HBK-2, HB-1,2; (1X-1R-1	WILLIAMSON	968	763
	PLOT DATE = 10/10/2011	CHECKED - BJD	REVISED -							• F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182
		DATE - 10/07/11	REVISED -							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	EMULATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	EMULATE
	AREAS CHECKED



404 + 50.00
 EXCAVATION = 78.8 SQ. FT.
 EMBANKMENT = 27.6 SQ. FT.

404 + 00.00
 EXCAVATION = 73.9 SQ. FT.
 EMBANKMENT = 29.3 SQ. FT.

403 + 50.00
 EXCAVATION = 73.5 SQ. FT.
 EMBANKMENT = 26.7 SQ. FT.

FILE NAME = ...ND978182-sh1-XCS.157.dgn

USER NAME = Rob Heady	DESIGNED - MJO	REVISED -
PLOT SCALE = 10.0000' / IN.	DRAWN - MJO	REVISED -
PLOT DATE = 10/10/2011	CHECKED - BJD	REVISED -
	DATE - 10/07/11	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

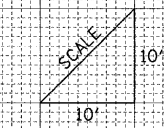
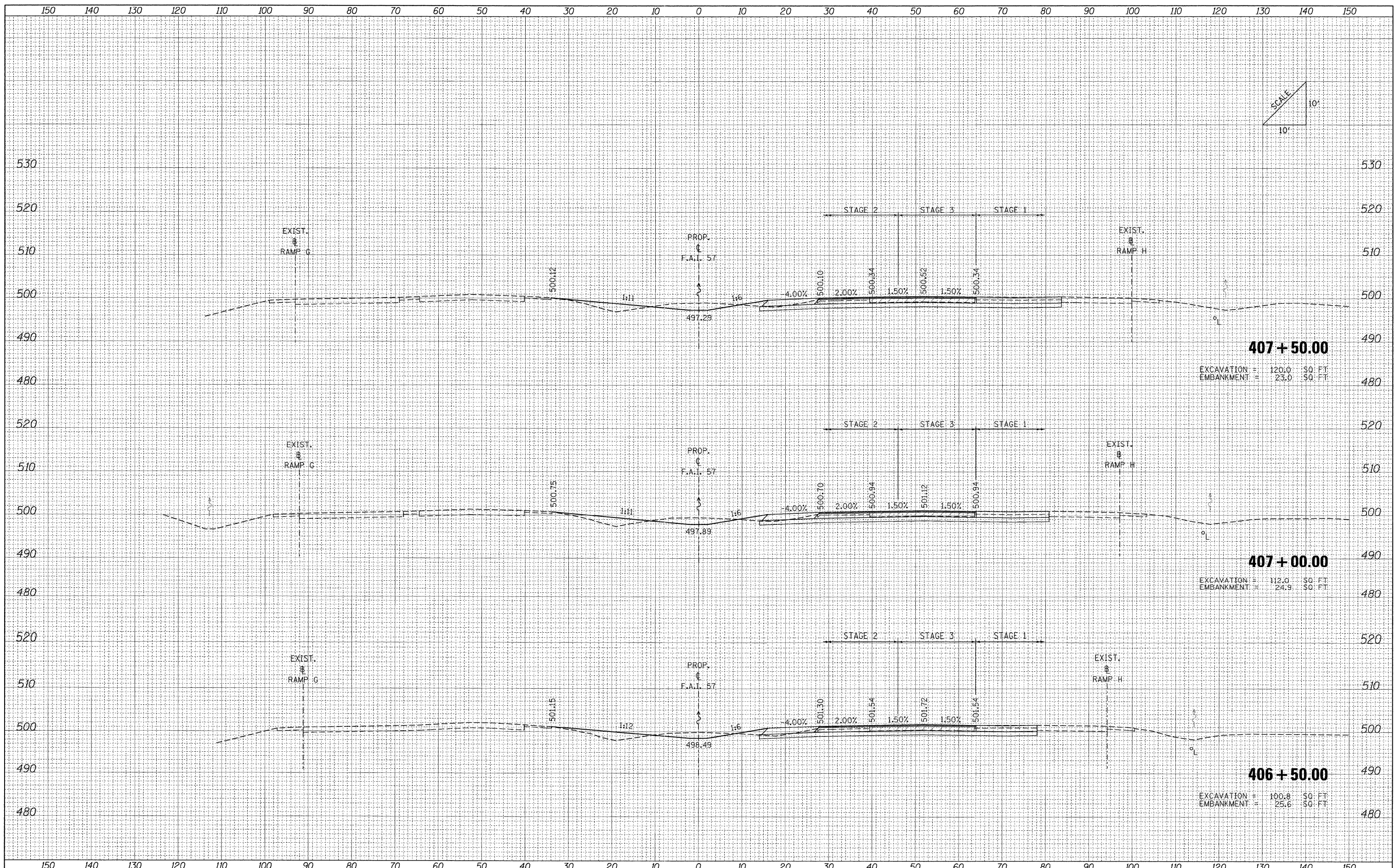
CROSS SECTIONS: F.A.I. 57

SCALE: SHEET NO. OF SHEETS STA. 403+50.00 TO STA. 404+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	01-6-2HDK-2, HB-1,2; 01X-1R-1	WILLIAMSON	968	764
•	F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182
	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

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FILE NAME = ...D978182-sht-XCS_157.dgn

USER NAME = Rob Heady	DESIGNED - MJO	REVISED -
	DRAWN - MJO	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED - BJD	REVISED -
PLOT DATE = 10/10/2011	DATE - 10/07/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

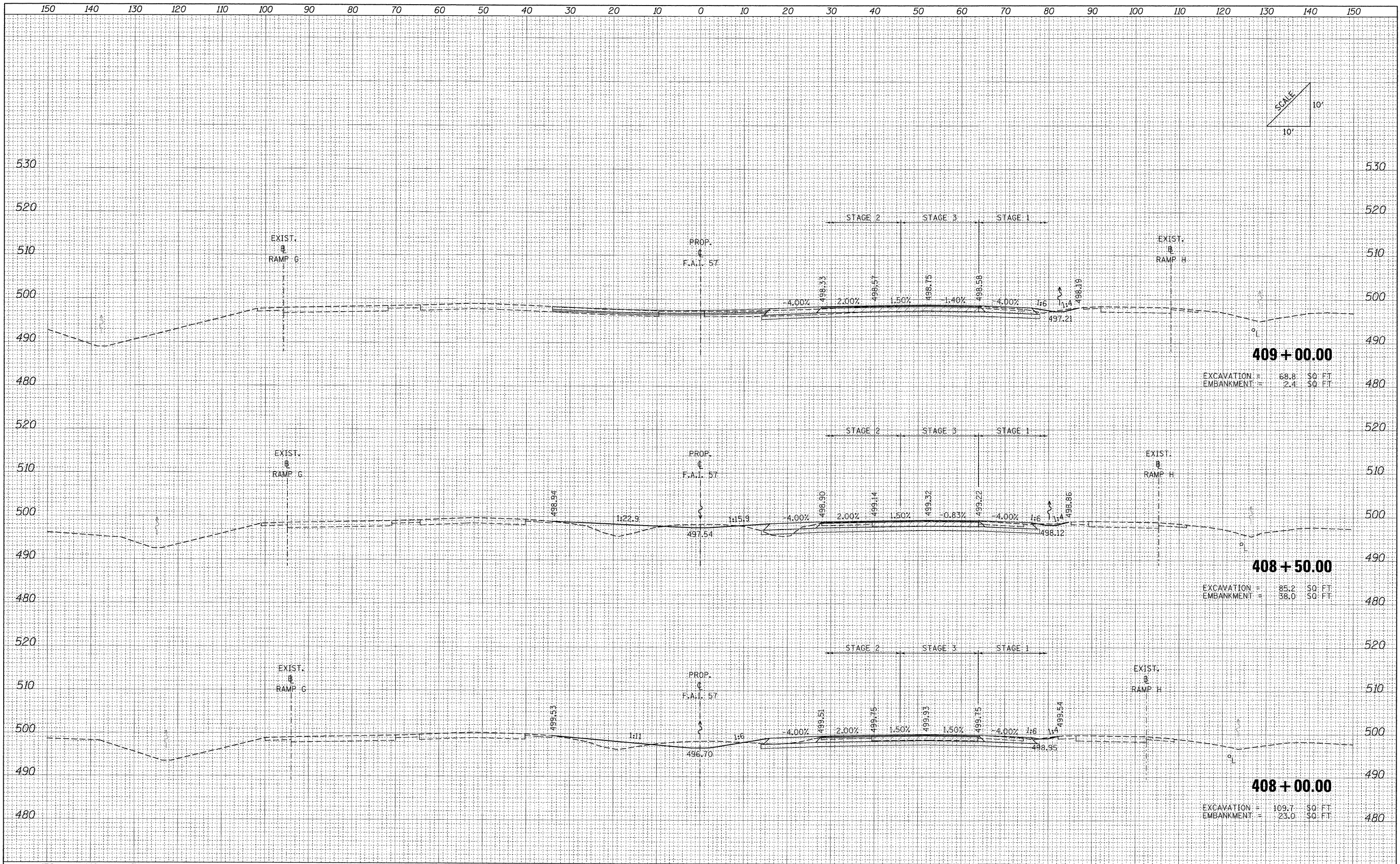
CROSS SECTIONS: F.A.I. 57

SCALE: SHEET NO. OF SHEETS STA. 406+50.00 TO STA. 407+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	0X1-6-2HKB-2, HB-1,2; 1X-1R-1	WILLIAMSON	968	766
•	F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	
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FINAL SURVEY	
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AREAS CHECKED	
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NOTE BOOK	
AREAS CHECKED	
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FILE NAME = ...D978182-shd-XCS_157.dgn

USER NAME = Rob Heady
 DESIGNED - MJO
 DRAWN - MJO
 CHECKED - BJD
 DATE - 10/07/11

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

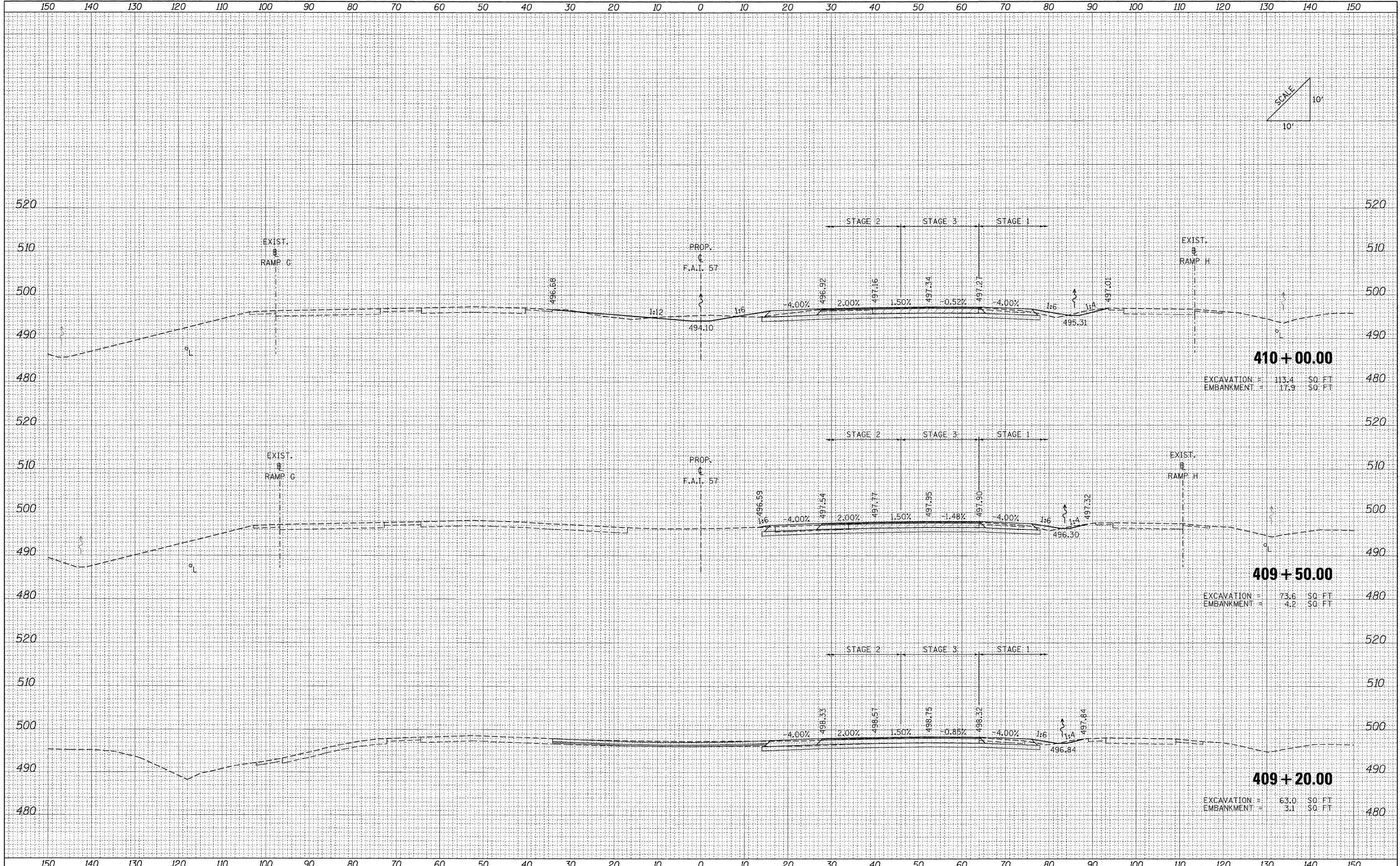
CROSS SECTIONS: F.A.I. 57

SCALE: SHEET NO. OF SHEETS STA. 408+00.00 TO STA. 409+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(X1-6-2)HBK-2, HB-1,2; (IX-1R-1	WILLIAMSON	968	767
* F.A.I. 57 AND F.A.P. 331		CONTRACT NO. 78182		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

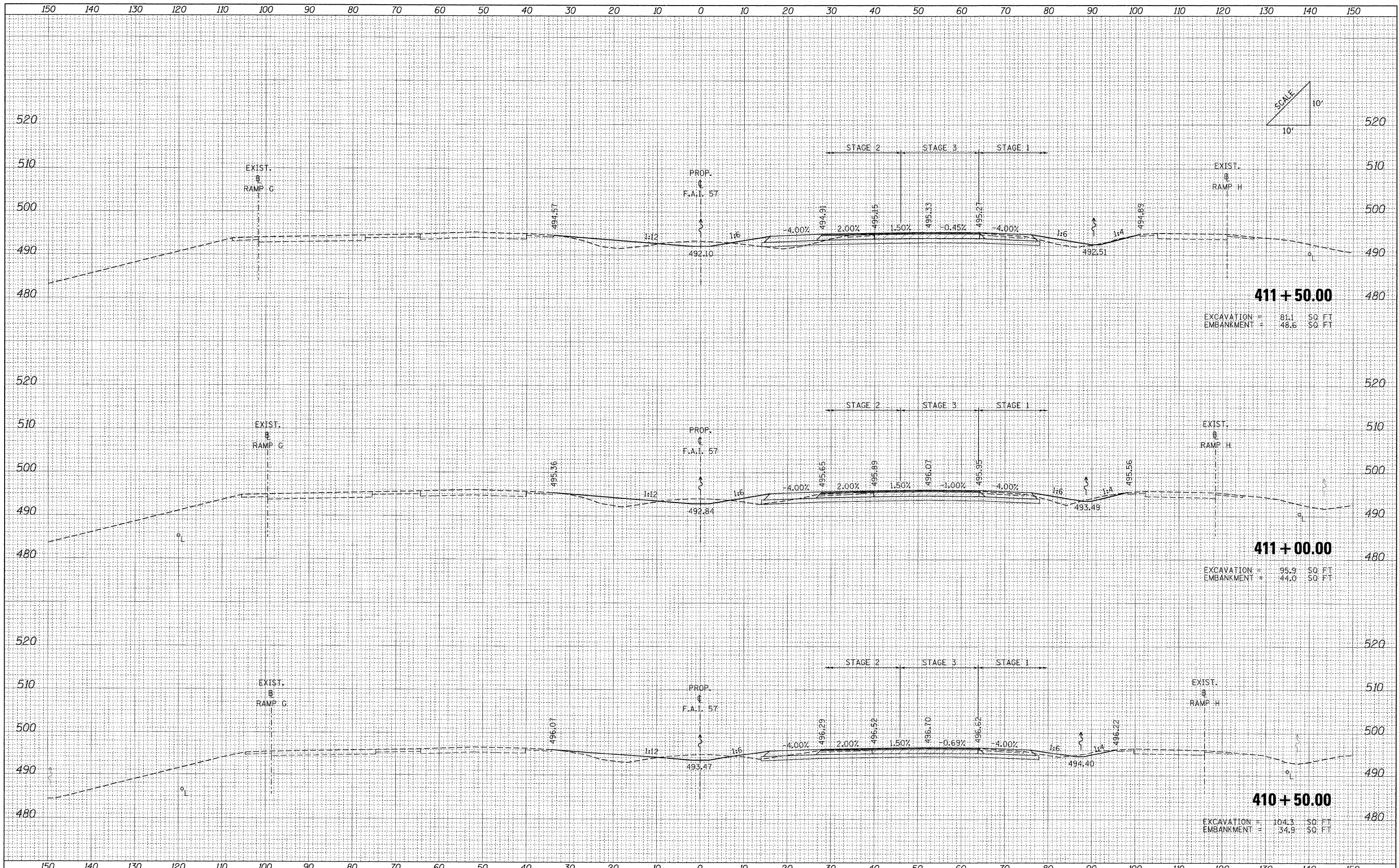
FINAL SURVEY PLOTTED
 SURVEYED BY: _____
 DATE: _____
 NOTE BOOK NO.: _____
 AREAS CHECKED: _____

OPTIONAL SURVEY PLOTTED
 SURVEYED BY: _____
 DATE: _____
 NOTE BOOK NO.: _____
 AREAS CHECKED: _____



DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	DATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	DATE
	AREAS CHECKED



411 + 50.00
 EXCAVATION = 81.1 SO FT
 EMBANKMENT = 48.6 SO FT

411 + 00.00
 EXCAVATION = 95.9 SO FT
 EMBANKMENT = 44.0 SO FT

410 + 50.00
 EXCAVATION = 104.3 SO FT
 EMBANKMENT = 34.9 SO FT

FILE NAME = ...D978182-sh1-XCS_157.dgn

USER NAME = Rob Heady
 DESIGNED - MJO
 DRAWN - MJO
 CHECKED - BJD
 DATE - 10/07/11

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

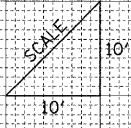
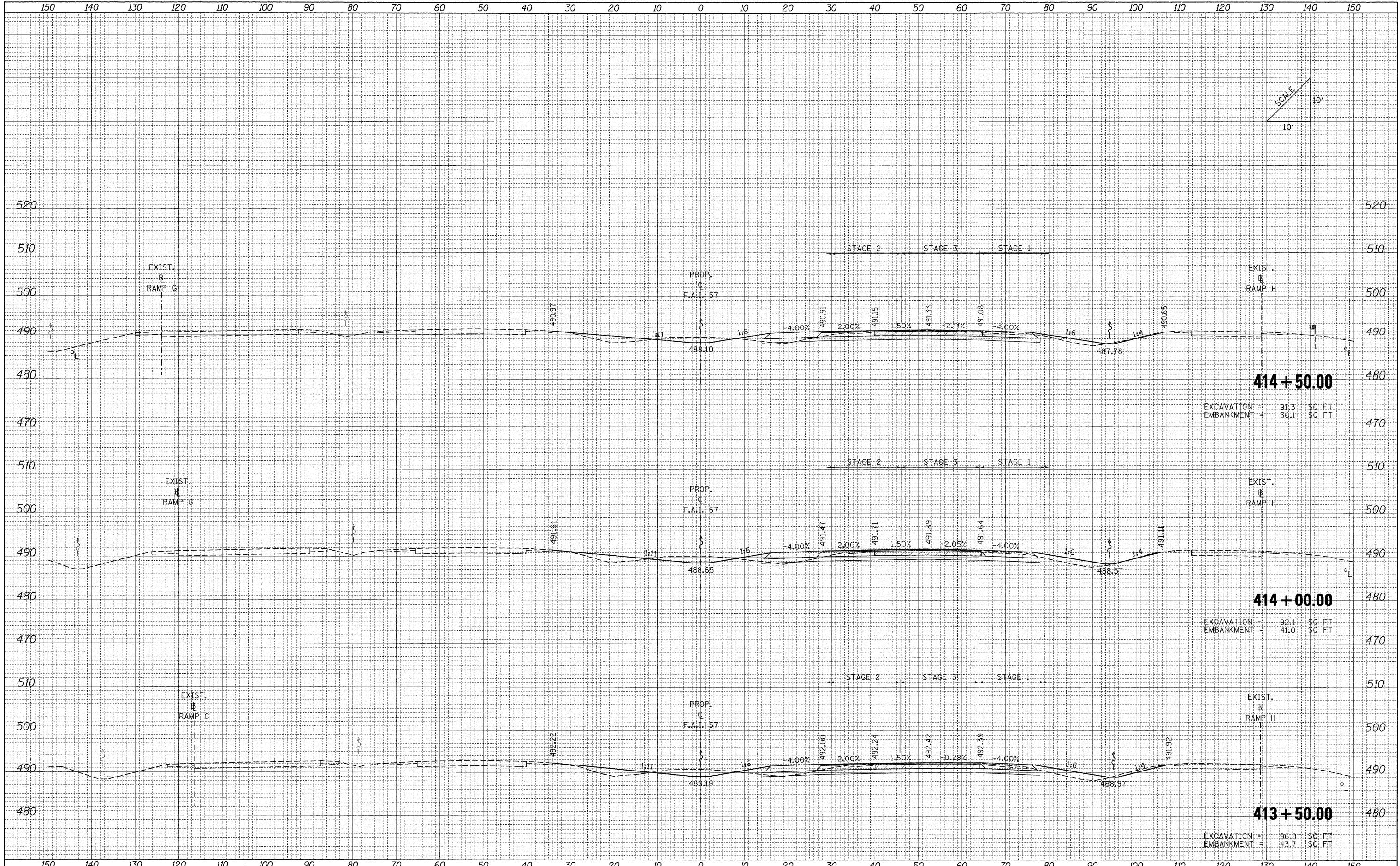
CROSS SECTIONS: F.A.I. 57

SCALE: SHEET NO. OF SHEETS STA. 410+50.00 TO STA. 411+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	IX1-6-2HBK-2, HB-1,2; IX-1R-1	WILLIAMSON	968	769
•	F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182
	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

DATE	
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FINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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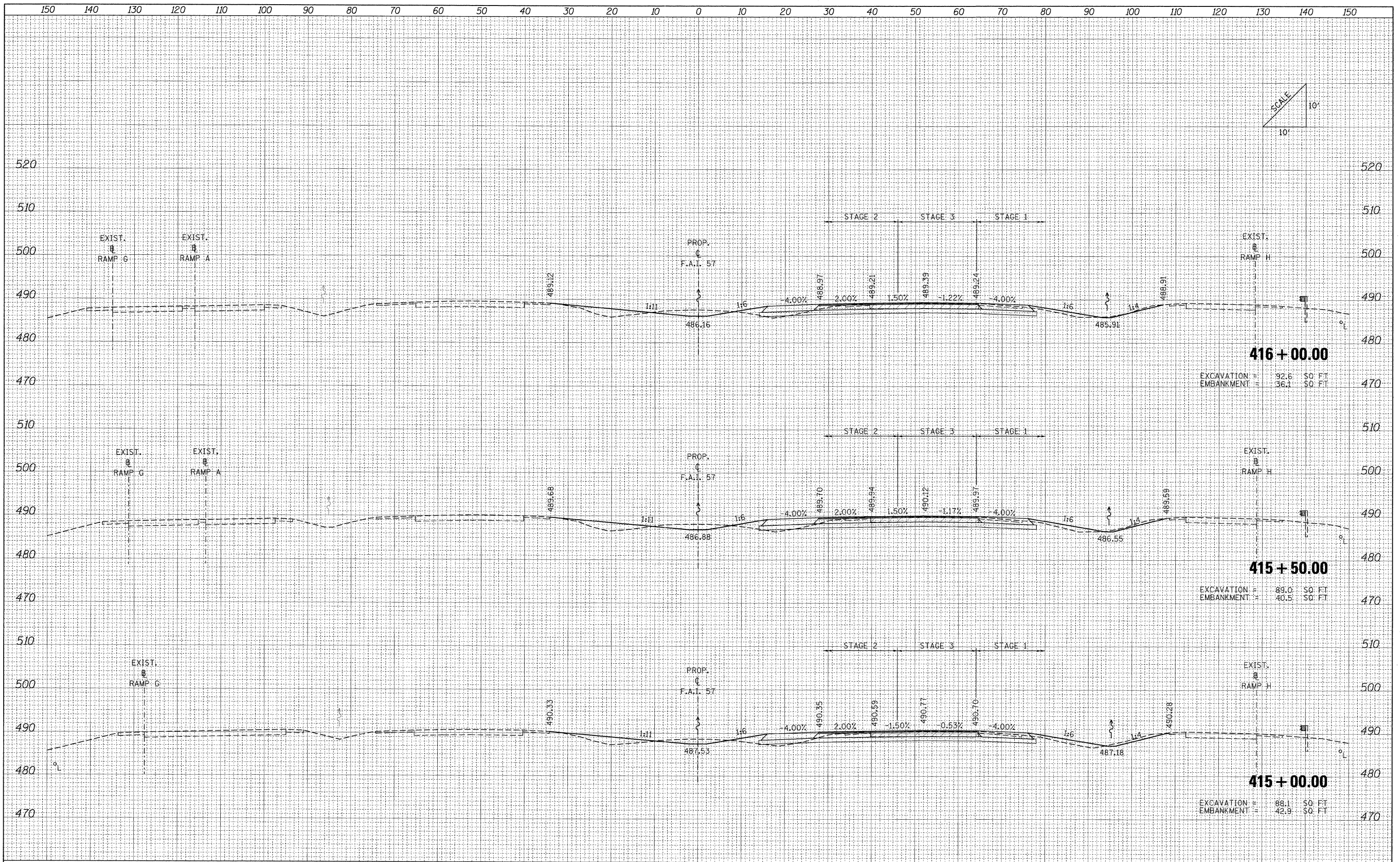
DATE	
BY	
ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...N0978182-shr-XCS.157.dgn		DRAWN - MJO	REVISED -					• (X1-6-2)HBK-2, HB-1,2; (1X-1R-1	WILLIAMSON	968	771	
		CHECKED - BJD	REVISED -					• F.A.I. 57 AND F.A.P. 331				
		DATE - 10/07/11	REVISED -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 78182	
				SCALE:	SHEET NO.	OF	SHEETS	STA. 413+50.00	TO STA. 414+50.00			

DATE	
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FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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FILE NAME = ...\\D978182-sht-XCS.157.dgn

USER NAME = Rob Heady
 DESIGNED - MJO
 DRAWN - MJO
 CHECKED - BJD
 DATE - 10/07/11

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

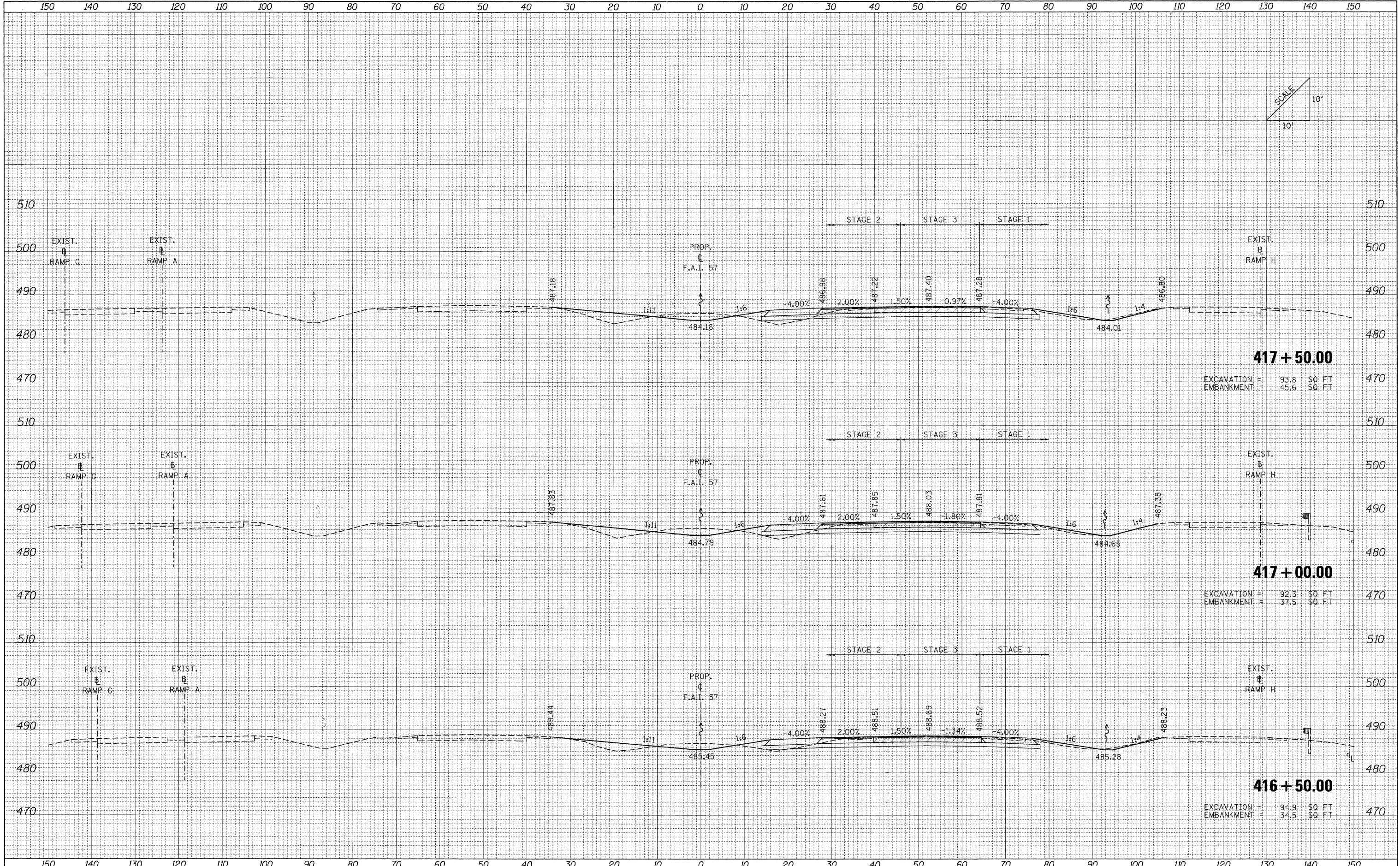
CROSS SECTIONS: F.A.I. 57

SCALE: SHEET NO. OF SHEETS STA. 415+00.00 TO STA. 416+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	[X1-6-2HBK-2, HB-1,2; (IX-1R-1	WILLIAMSON	968	772
	F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182		
	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
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ORIGINAL SURVEY	
SURVEYED	
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NOTE BOOK	
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FILE NAME = ...N0978182-sht-XCS_157.dgn

USER NAME = Rob Heady
 DESIGNED - MJO
 DRAWN - MJO
 CHECKED - BJD
 DATE - 10/07/11

REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

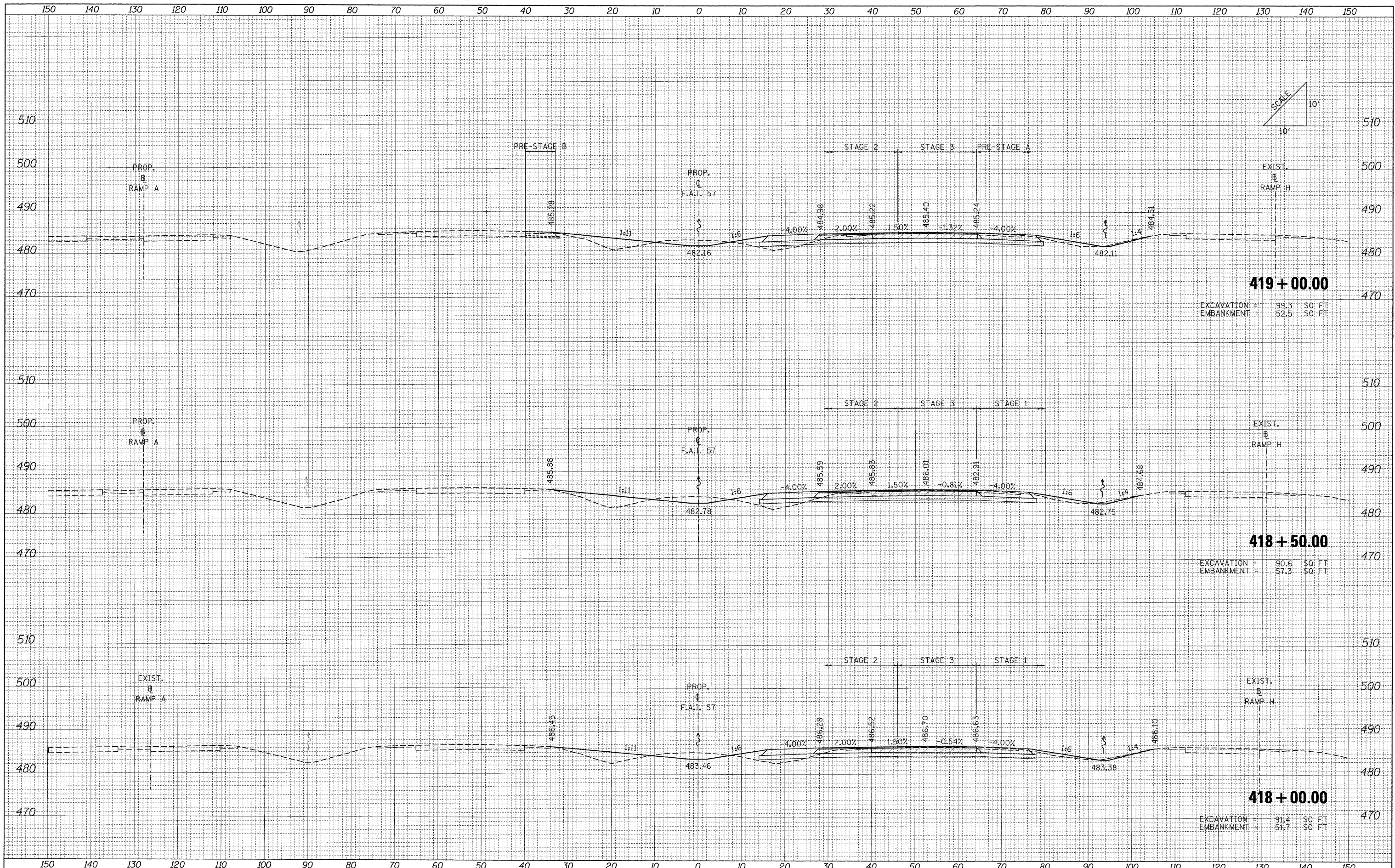
CROSS SECTIONS: F.A.I. 57

SCALE: SHEET NO. OF SHEETS STA. 416+50.00 TO STA. 417+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	0X1-6-2HRK-2, HB-1,2; 1X-1R-1	WILLIAMSON	968	773
•	F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
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AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	



419 + 00.00
 EXCAVATION = 39.3 \$0. FT
 EMBANKMENT = 52.5 \$0. FT

418 + 50.00
 EXCAVATION = 90.6 \$0. FT
 EMBANKMENT = 57.3 \$0. FT

418 + 00.00
 EXCAVATION = 91.4 \$0. FT
 EMBANKMENT = 51.7 \$0. FT

FILE NAME = ... \D978182-sht-XCS_157.dgn

USER NAME = Rob Heady	DESIGNED - MJO	REVISED -
	DRAWN - MJO	REVISED -
	CHECKED - BJD	REVISED -
	DATE - 10/07/11	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

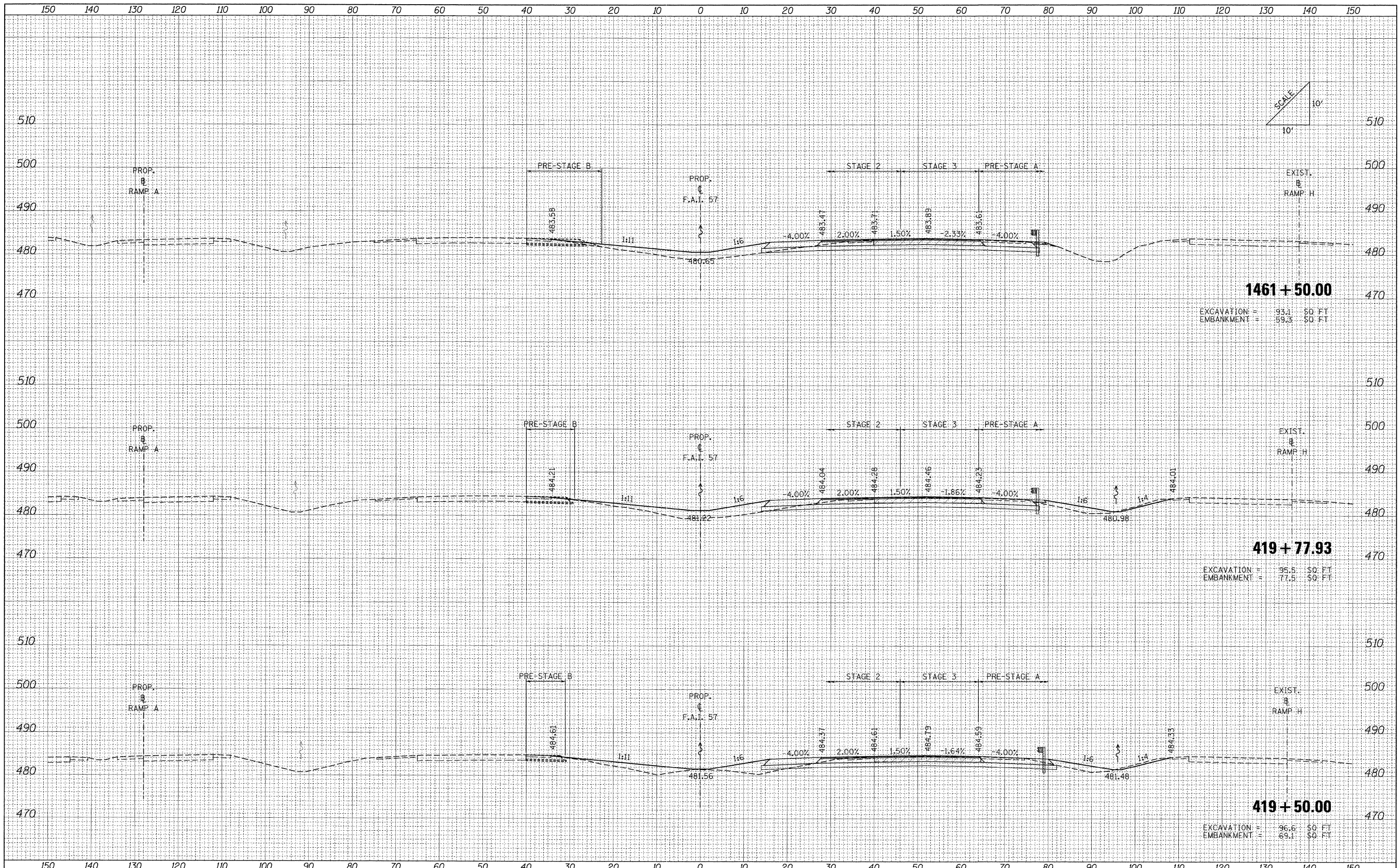
CROSS SECTIONS: F.A.I. 57

SCALE: SHEET NO. OF SHEETS STA. 418+00.00 TO STA. 419+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* IXI-6-2HBK-2, HB-1,2; (1X-1R-1	WILLIAMSON	968	774	
* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	
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NOTE BOOK	
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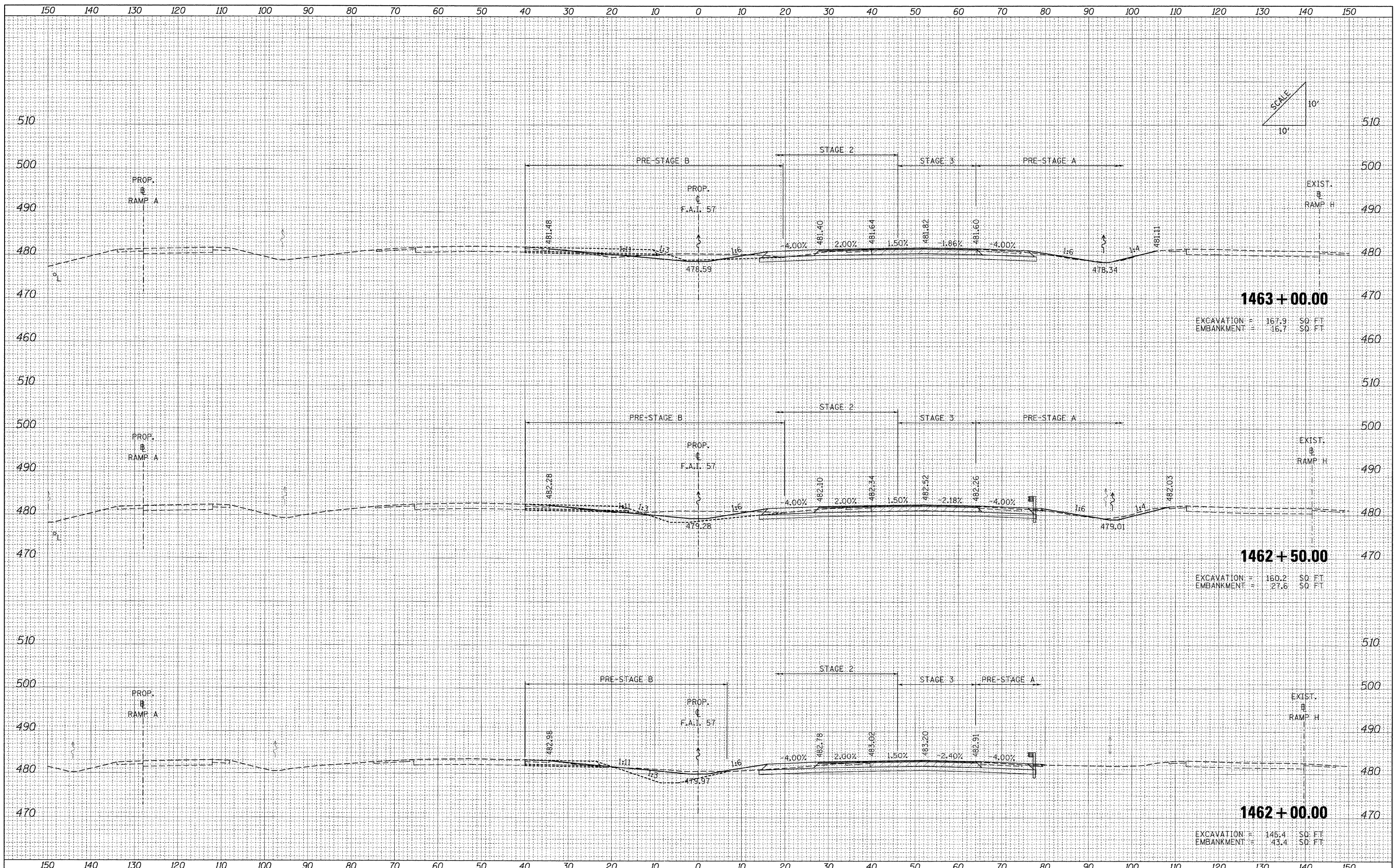
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BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS	
CHECKED	
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FILE NAME =	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...D978182-ah-t-XCS_157.dgn		DRAWN - MJO	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 419+50.00	TO STA. 1461+50.00	WILLIAMSON	968	775
		CHECKED - BJD	REVISED -								CONTRACT NO. 78182		
		DATE - 10/07/11	REVISED -								ILLINOIS FED. AID PROJECT		

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	EMBAKMENT
	AREAS CHECKED

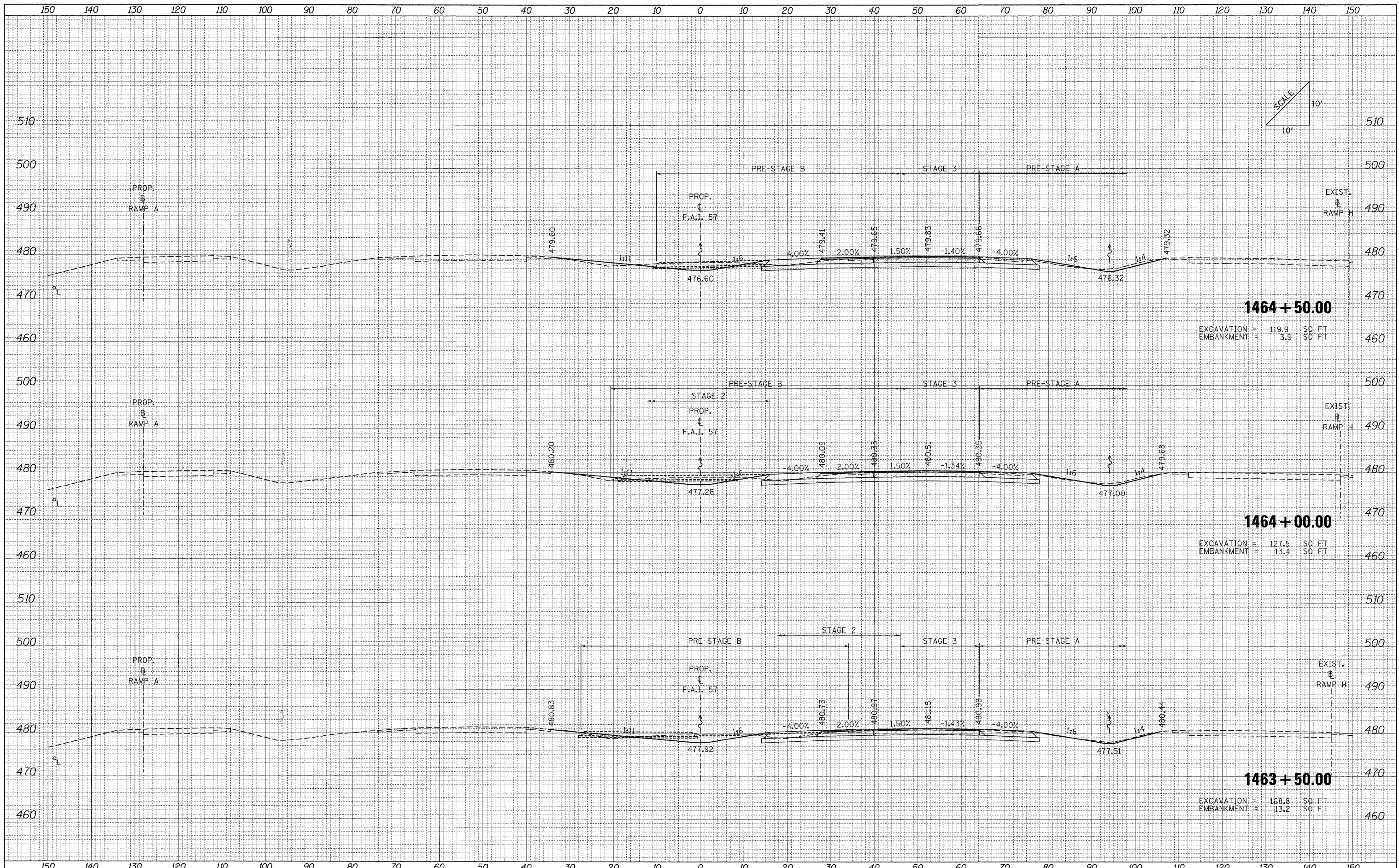
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	EMBAKMENT
	AREAS CHECKED



FILE NAME =	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...D978182-sht-XCS.157.dgn		DRAWN - MJO	REVISED -					* (X1-6-2)HBK-2, HB-1,2; (1X-1R-1	WILLIAMSON	968	776	
		CHECKED - BJD	REVISED -					* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
		DATE - 10/07/11	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	
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FINAL SURVEY	
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NOTE BOOK	
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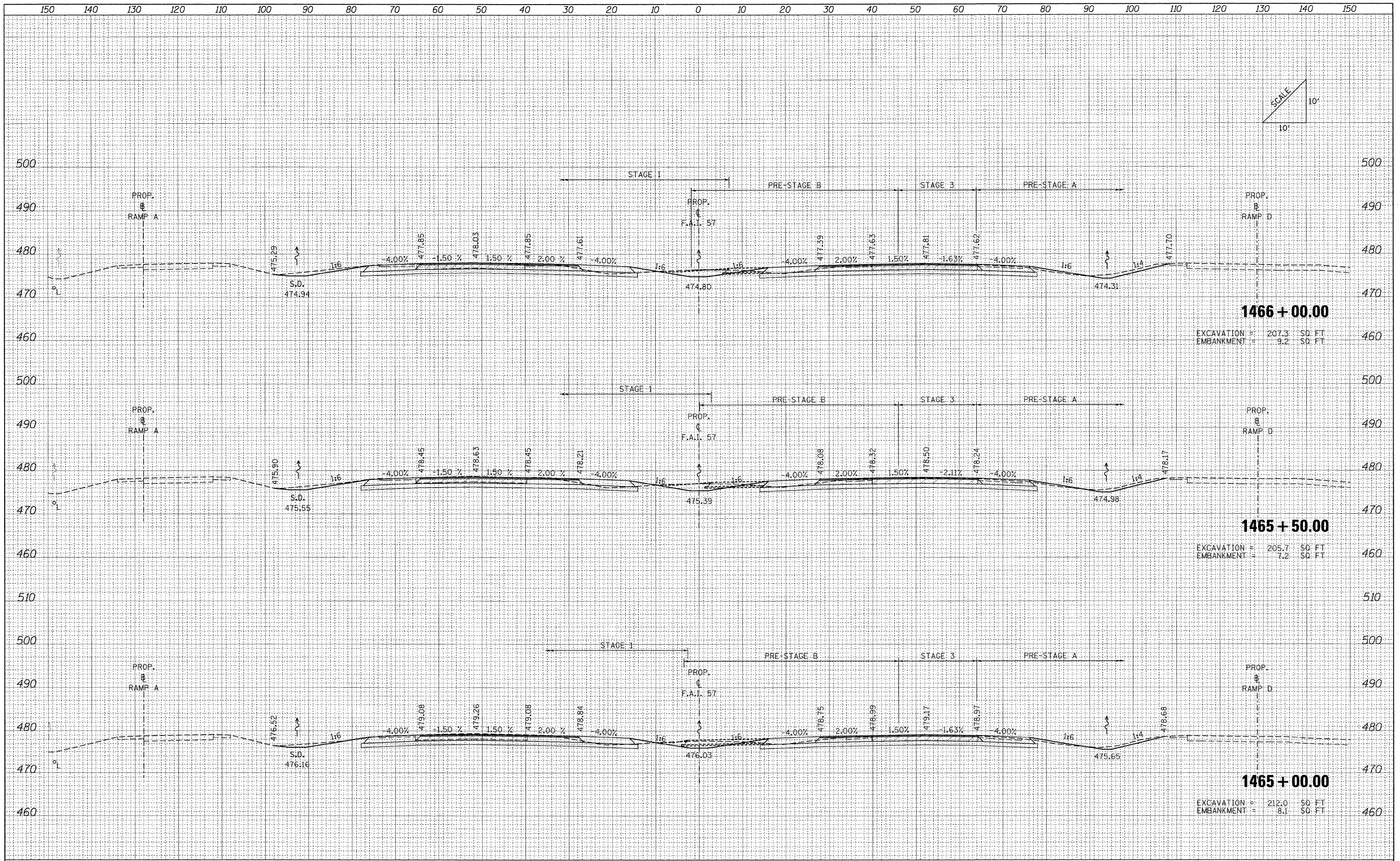
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NOTE BOOK	
AREAS CHECKED	
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FILE NAME = ...ND978182-sht-XCS.157.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MJO	REVISED -		• (X1-6-2)HBK-2, HB-1,2; (IX-1)R-1	WILLIAMSON	968	777				
		CHECKED - BJD	REVISED -		• F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182						
		DATE - 10/07/11	REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT						
				SCALE:	SHEET NO. OF SHEETS	STA. 1463+50.00 TO STA. 1464+50.00						

DATE	
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FINAL SURVEY	
SURVEYED	
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NOTE BOOK	
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AREAS CHECKED	

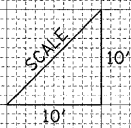
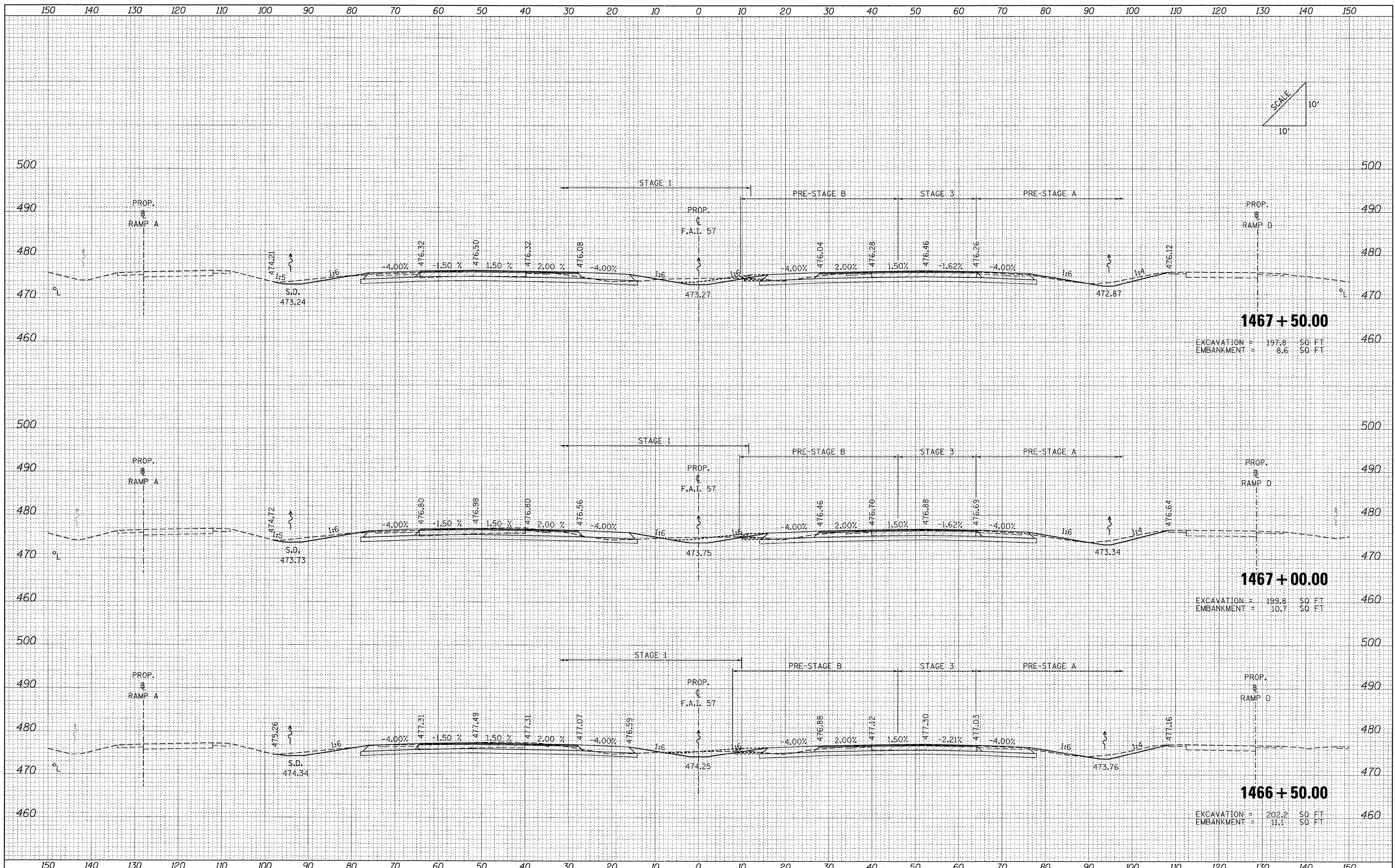
DATE	
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NOTE BOOK	
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AREAS CHECKED	



FILE NAME = ...AD978182-shr-XCS-157.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 10.0000' / IN.	DRAWN - MJO	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 1465+00.00 TO STA. 1466+00.00	(X1-6-2)HBK-2, HB-1,2; (X1-1)R-1	WILLIAMSON	968	778
	PLOT DATE = 10/10/2011	CHECKED - BJD	REVISED -							* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182		
		DATE - 10/07/11	REVISED -							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
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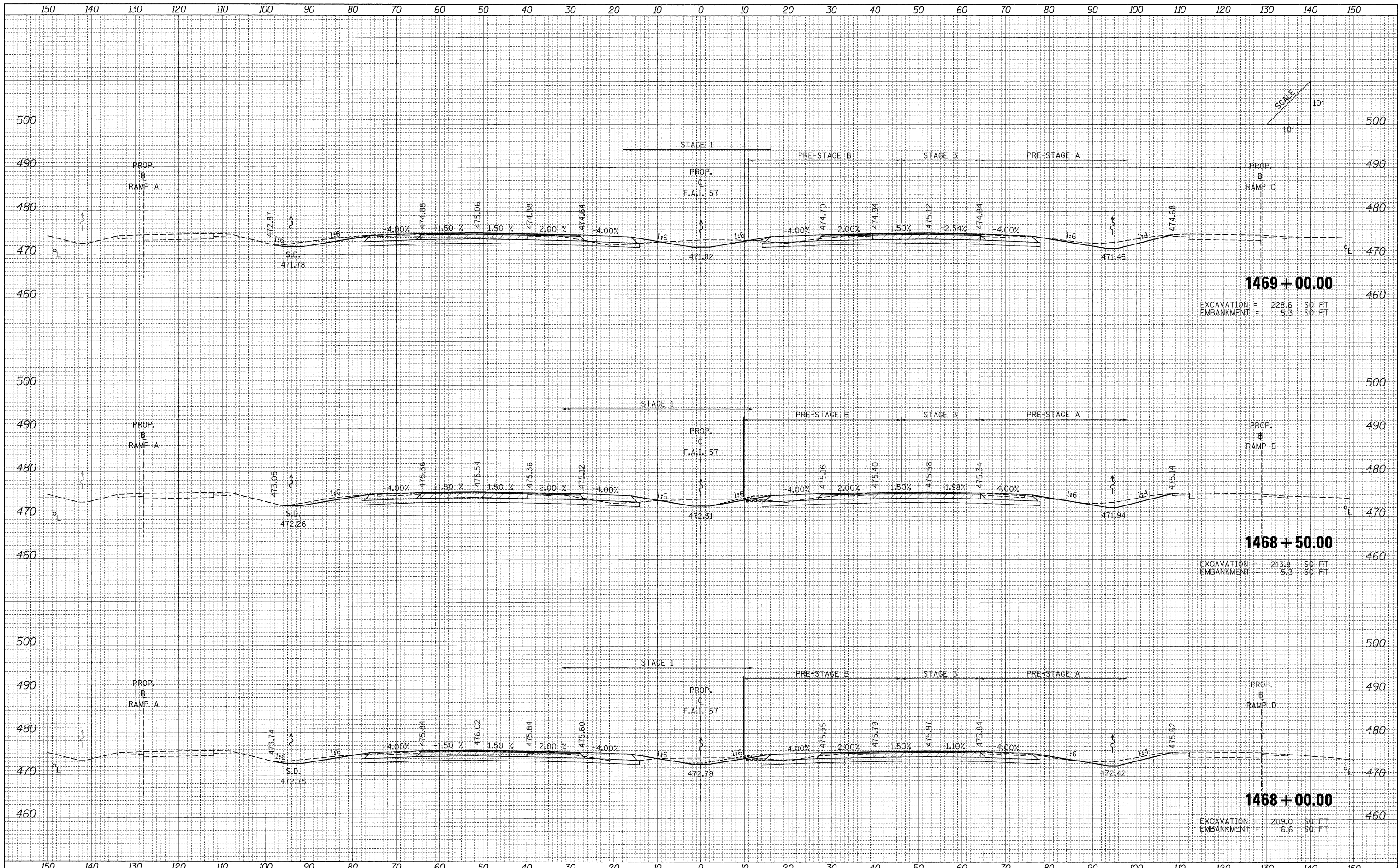
DATE	
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NOTE BOOK	
AREAS CHECKED	
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FILE NAME =	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...D978182-sht-XCS_157.dgn		DRAWN - MJO	REVISED -			• 0X1-6-2HRK-2, HB-1,2; (1X-1R-1	WILLIAMSON	968	779		
PLOT SCALE = 10.0000' / IN.		CHECKED - BJD	REVISED -			• F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182				
PLOT DATE = 10/10/2011		DATE - 10/07/11	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				
SCALE:						SHEET NO.	OF	SHEETS	STA. 1466+50.00 TO STA. 1467+50.00		

DATE	
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FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
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AREAS CHECKED	

DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
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AREAS CHECKED	



FILE NAME = ...ND978182-sh1-XCS.157.dgn

USER NAME = Rob Headly
 DESIGNED - MJO
 DRAWN - MJO
 CHECKED - BJD
 DATE - 10/07/11

REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

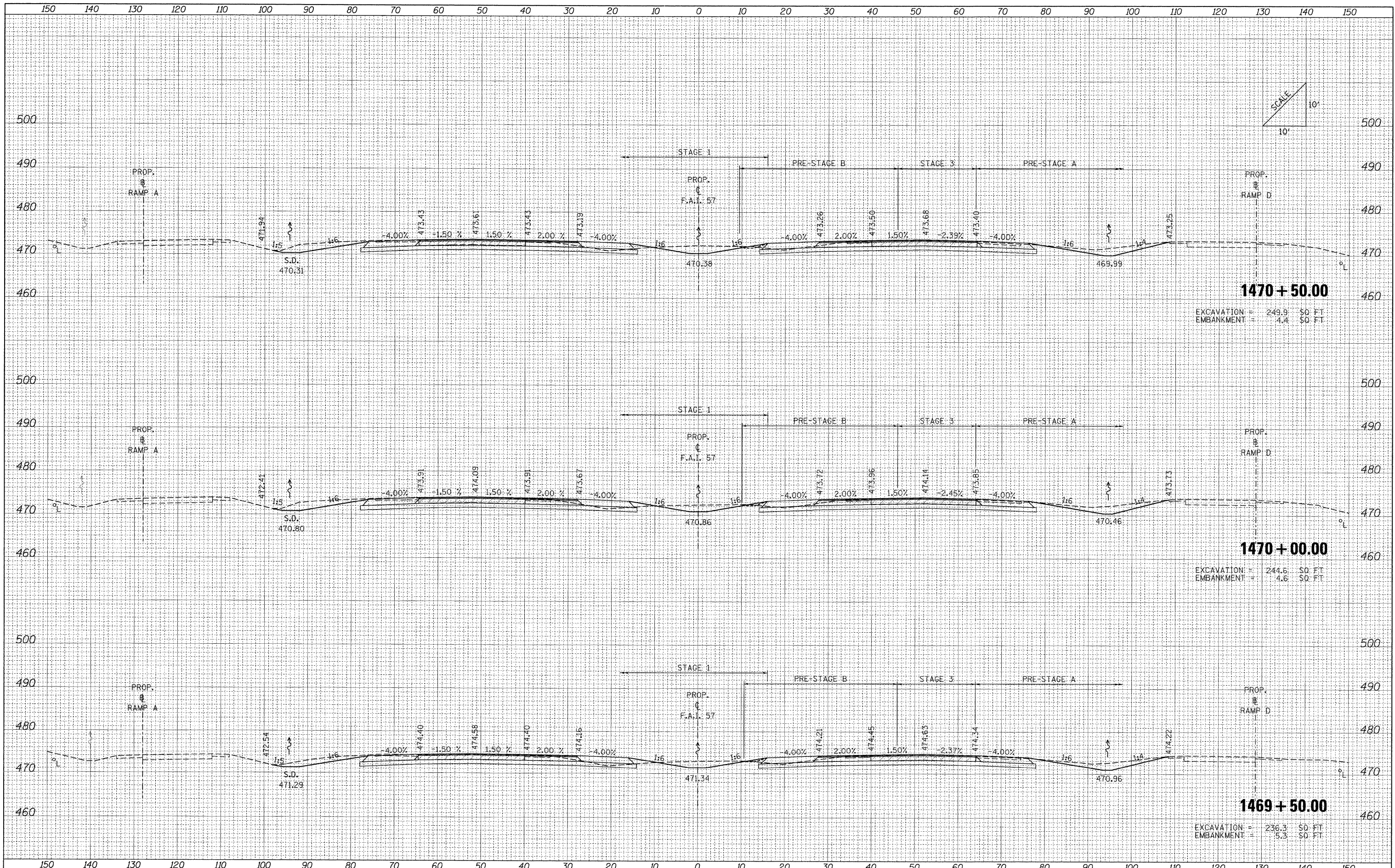
CROSS SECTIONS: F.A.I. 57

SCALE: SHEET NO. OF SHEETS STA. 1468+00.00 TO STA. 1469+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• (X1-6-2)HBK-2, HB-1,2; (1X-1R-1	WILLIAMSON	968	780	
• F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	
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FINAL SURVEY	
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NOTE BOOK	
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DATE	
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ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



EXCAVATION = 249.9 SQ. FT.
EMBANKMENT = 4.4 SQ. FT.

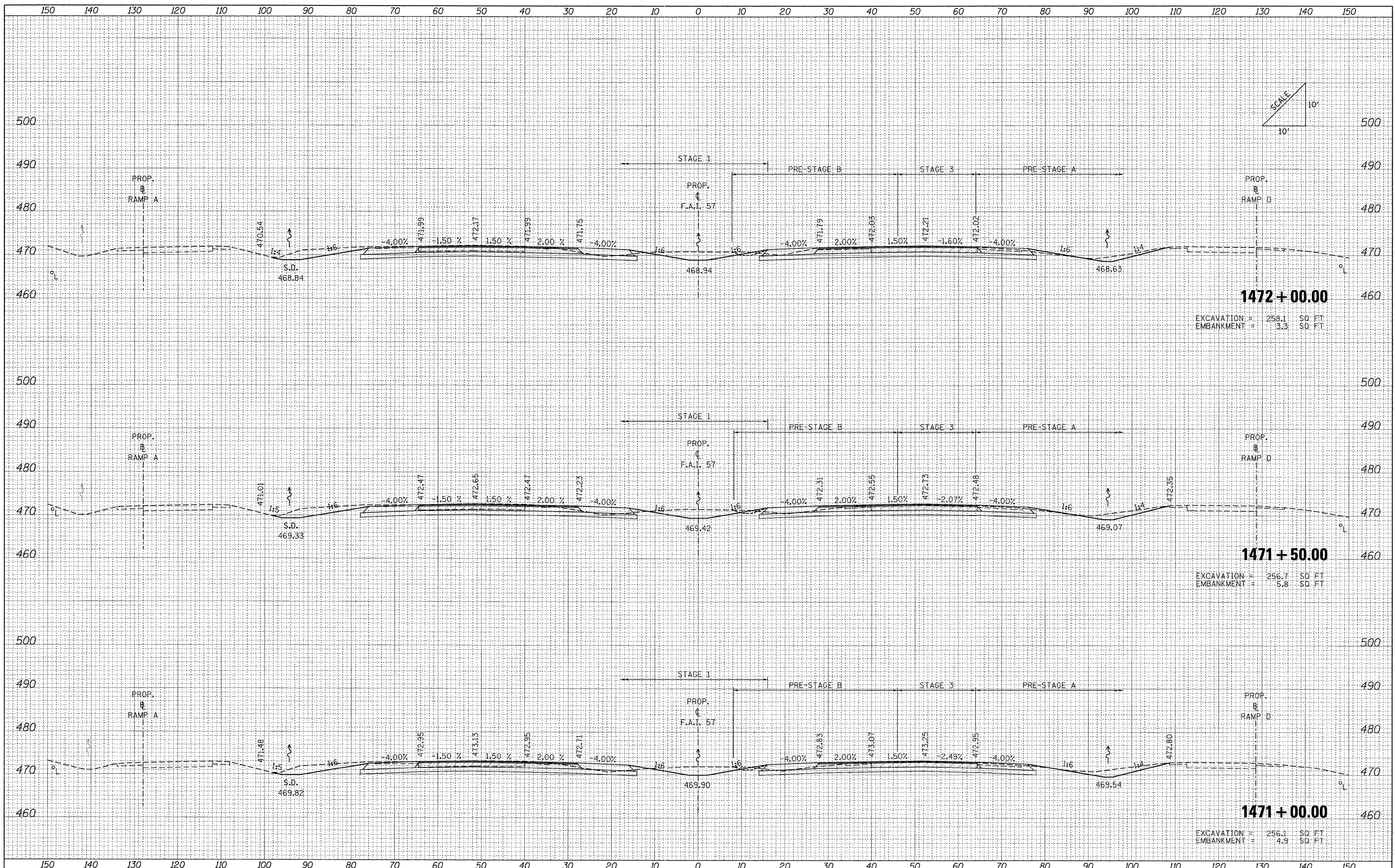
EXCAVATION = 244.6 SQ. FT.
EMBANKMENT = 4.6 SQ. FT.

EXCAVATION = 236.3 SQ. FT.
EMBANKMENT = 5.3 SQ. FT.

FILE NAME =	USER NAME = Rob Healy	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\D978182-shr-XCS-157.dgn		DRAWN - MJO	REVISED -			• (X1-6-2)HBK-2, HB-1,2 (1X-1R-1	WILLIAMSON	968	781	
PLOT SCALE = 10.0000" / IN.		CHECKED - BJD	REVISED -			• F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182	
PLOT DATE = 10/10/2011		DATE 10/07/11	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
SCALE:						SHEET NO. OF SHEETS STA. 1469+50.00 TO STA. 1470+50.00				

DATE _____ BY _____
 ORIGINAL SURVEY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 EMBANKMENT AREAS CHECKED _____
 NO. _____

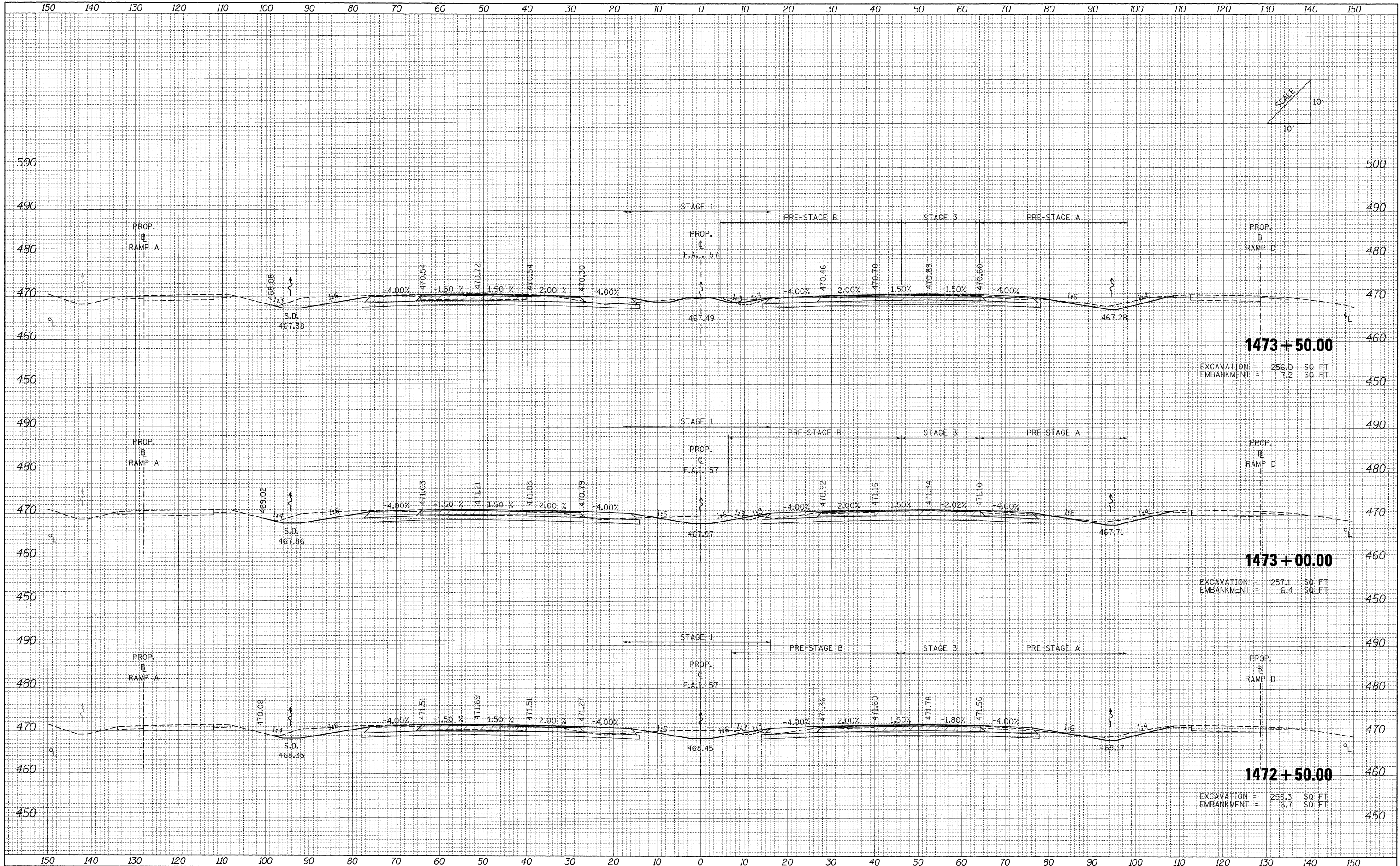
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 NOTE BOOK _____
 EMBANKMENT AREAS CHECKED _____
 NO. _____



FILE NAME = ...D978182-sht-XCS-157.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MJO	REVISED -			* XI-6-2HBK-2, HB-1,2; (1X-1R-1	WILLIAMSON	968	782	
		CHECKED - BJD	REVISED -			* F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182	
		DATE - 10/07/11	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



1473+50.00
 EXCAVATION = 256.0 SO. FT.
 EMBANKMENT = 7.2 SO. FT.

1473+00.00
 EXCAVATION = 257.1 SO. FT.
 EMBANKMENT = 6.4 SO. FT.

1472+50.00
 EXCAVATION = 256.3 SO. FT.
 EMBANKMENT = 6.7 SO. FT.

FILE NAME = ...D978182-sh-t-XCS-157.dgn

USER NAME = Rob Heady	DESIGNED - MJO	REVISED -
	DRAWN - MJO	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED - BJD	REVISED -
PLOT DATE = 10/18/2011	DATE - 10/07/11	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

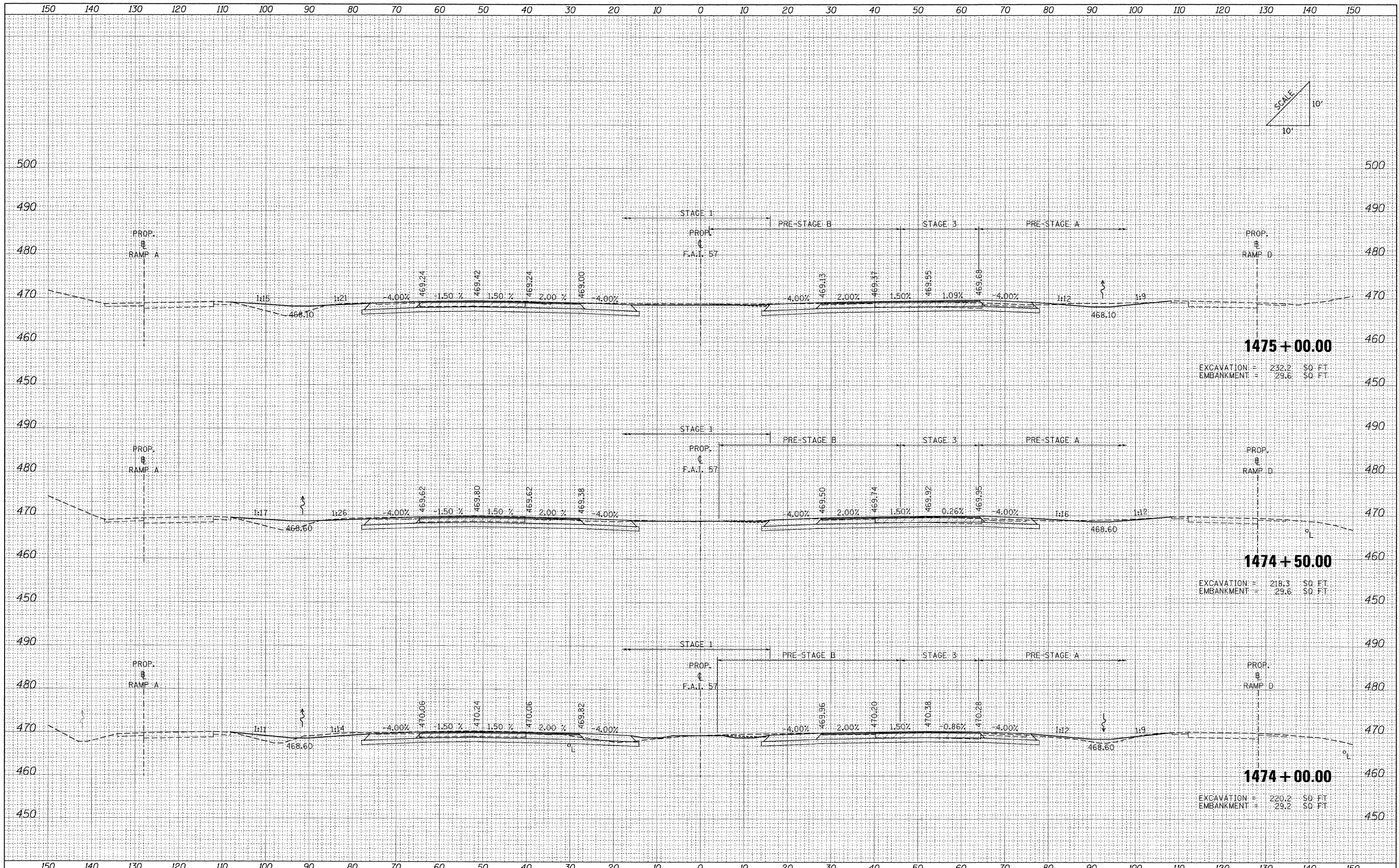
CROSS SECTIONS: F.A.I. 57

SCALE: SHEET NO. OF SHEETS STA. 1472+50.00 TO STA. 1473+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(X1-6-2)HBK-2, HB-1,2; (1X-1R-1)	WILLIAMSON	968	783
*	F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	
SHRINKED	
SURVEY	
PLOTTED	
NOTE BOOK	
NO. _____	
AREAS CHECKED	

DATE	
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ORIGINAL SURVEY	
SURVEY	
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NOTE BOOK	
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AREAS CHECKED	



1475 + 00.00
 EXCAVATION = 232.2 SQ. FT.
 EMBANKMENT = 29.6 SQ. FT.

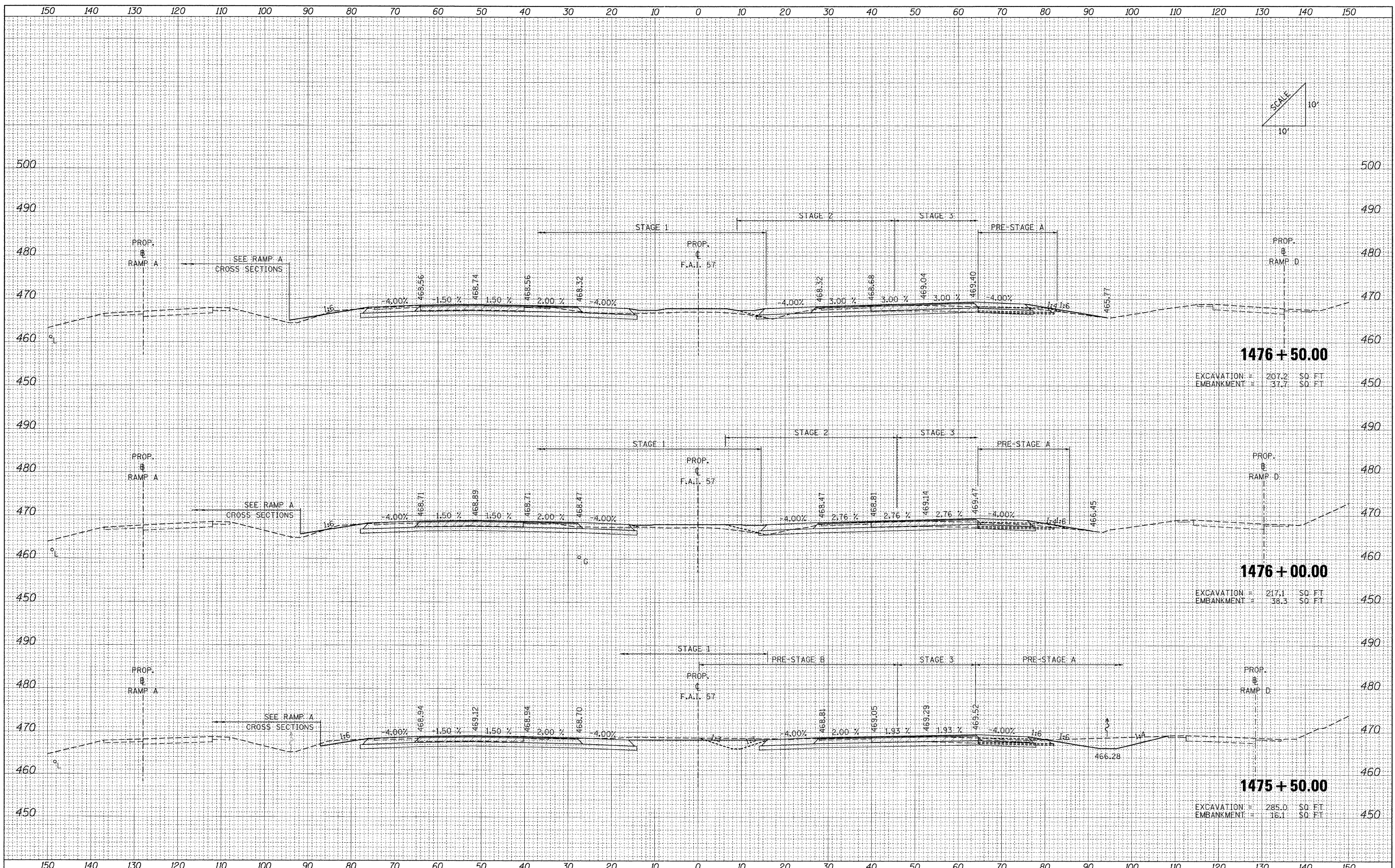
1474 + 50.00
 EXCAVATION = 218.3 SQ. FT.
 EMBANKMENT = 29.6 SQ. FT.

1474 + 00.00
 EXCAVATION = 220.2 SQ. FT.
 EMBANKMENT = 29.2 SQ. FT.

FILE NAME =	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...D978182-ahh-XCS_157.dgn		DRAWN - MJO	REVISED -					• (X1-6-2)HBK-2, HB-1,2; (1X-1R-1	WILLIAMSON	968	784	
		CHECKED - BJD	REVISED -					• F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182	
		DATE - 10/07/11	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
		PLOT SCALE = 10.0000' / IN.		SCALE:	SHEET NO.	OF	SHEETS	STA. 1474+00.00 TO STA. 1475+00.00				

BY _____ DATE _____
 SURVEYED _____ PLOTTED _____
 NOTE BOOK _____ REVISIONS _____
 NO. _____ AREAS CHECKED _____

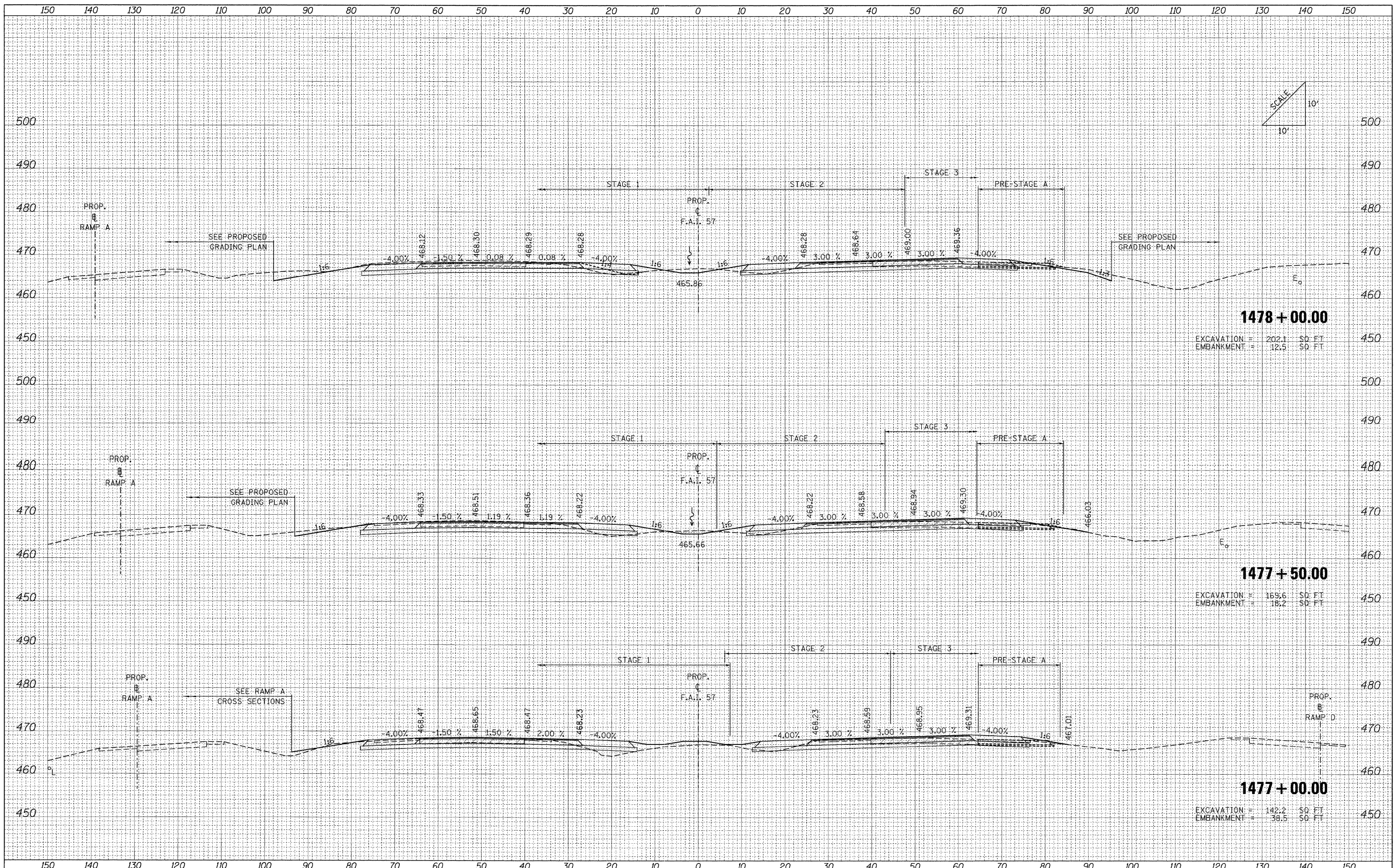
BY _____ DATE _____
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 NOTE BOOK _____ REVISIONS _____
 NO. _____ AREAS CHECKED _____



FILE NAME = ...:\0978182-ah1-XCS_157.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MJO	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 1475+50.00	TO STA. 1476+50.00	WILLIAMSON	968	785
		CHECKED - BJD	REVISED -								CONTRACT NO. 78182		
		DATE - 10/07/11	REVISED -								ILLINOIS FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



1478 + 00.00
 EXCAVATION = 202.1 SQ. FT.
 EMBANKMENT = 12.5 SQ. FT.

1477 + 50.00
 EXCAVATION = 169.6 SQ. FT.
 EMBANKMENT = 18.2 SQ. FT.

1477 + 00.00
 EXCAVATION = 142.2 SQ. FT.
 EMBANKMENT = 38.5 SQ. FT.

FILE NAME = ...D978182-ahh-XCS_157.dgn
 USER NAME = Rob Headly

DESIGNED - MJO	REVISED -
DRAWN - MJO	REVISED -
CHECKED - BJD	REVISED -
DATE - 10/07/11	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

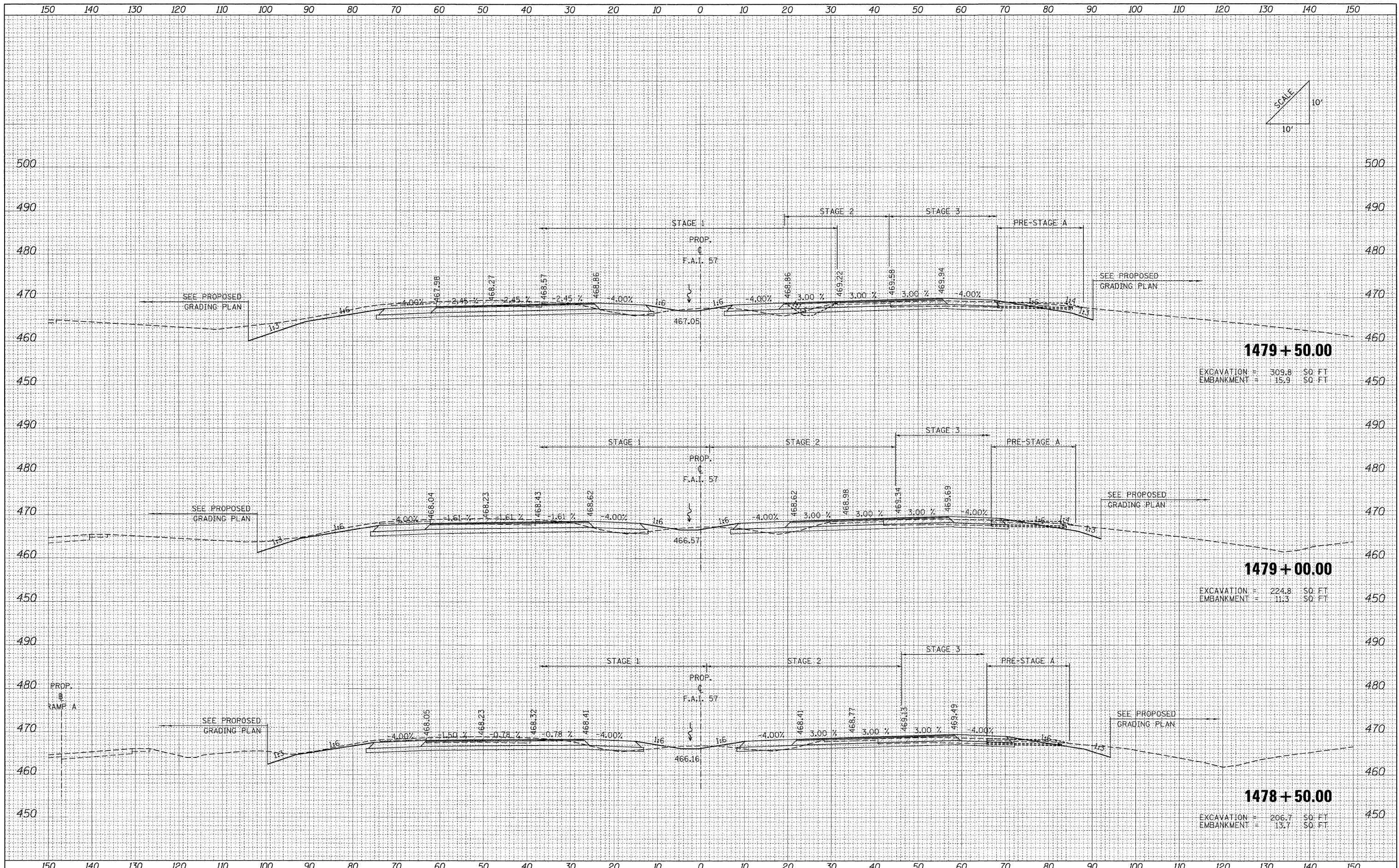
CROSS SECTIONS: F.A.I. 57

SCALE: SHEET NO. OF SHEETS STA. 1477+00.00 TO STA. 1478+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* XI-6-2HBK-2, HB-1,2; (IX-1R-1		WILLIAMSON	968	786
* F.A.I. 57 AND F.A.P. 331				CONTRACT NO. 78182
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	
BY	
FINAL SURVEY	
NOTED BOOK	
NO.	

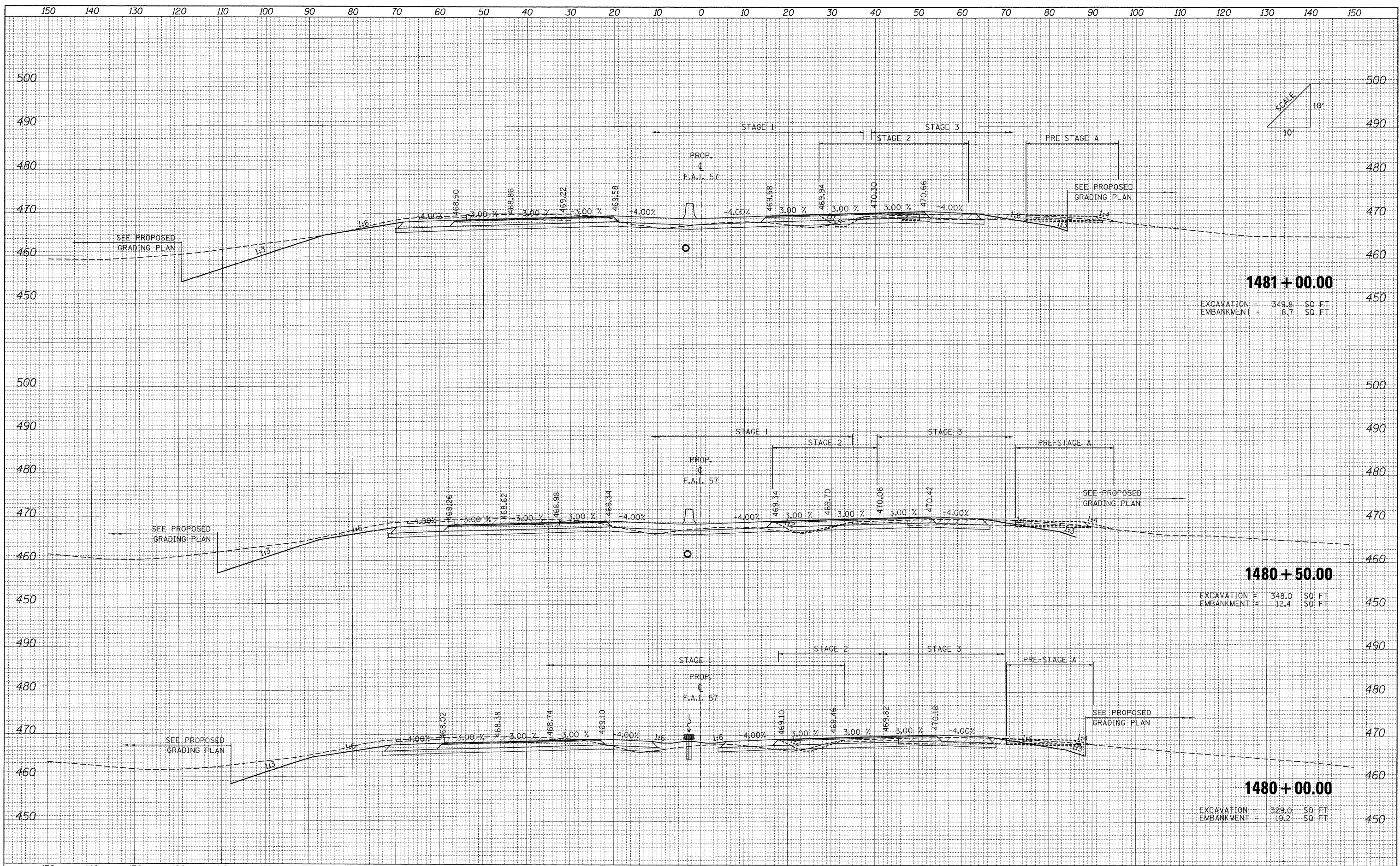
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BY	
ORIGINAL SURVEY	
NOTED BOOK	
NO.	



FILE NAME = ...D978182-sht-XCS-157.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 10.0000' / IN.	DRAWN - MJO	REVISED -		• (X1-6-2)HBK-2, HB-1,2; (1X-1)R-1	WILLIAMSON	968	787				
	PLOT DATE = 10/10/2011	CHECKED - BJD	REVISED -		• F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182						
		DATE - 10/07/11	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
REPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
REPLATE	
AREAS CHECKED	
NO.	



1481 + 00.00
 EXCAVATION = 349.8 SQ. FT.
 EMBANKMENT = 8.7 SQ. FT.

1480 + 50.00
 EXCAVATION = 348.0 SQ. FT.
 EMBANKMENT = 12.4 SQ. FT.

1480 + 00.00
 EXCAVATION = 329.0 SQ. FT.
 EMBANKMENT = 19.2 SQ. FT.

FILE NAME = ...\\D978182-sh1-XCS_157.dgn

USER NAME = Rob Heady	DESIGNED - MJO	REVISED -
	DRAWN - MJO	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED - BJD	REVISED -
PLOT DATE = 10/07/11	DATE - 10/07/11	REVISED -

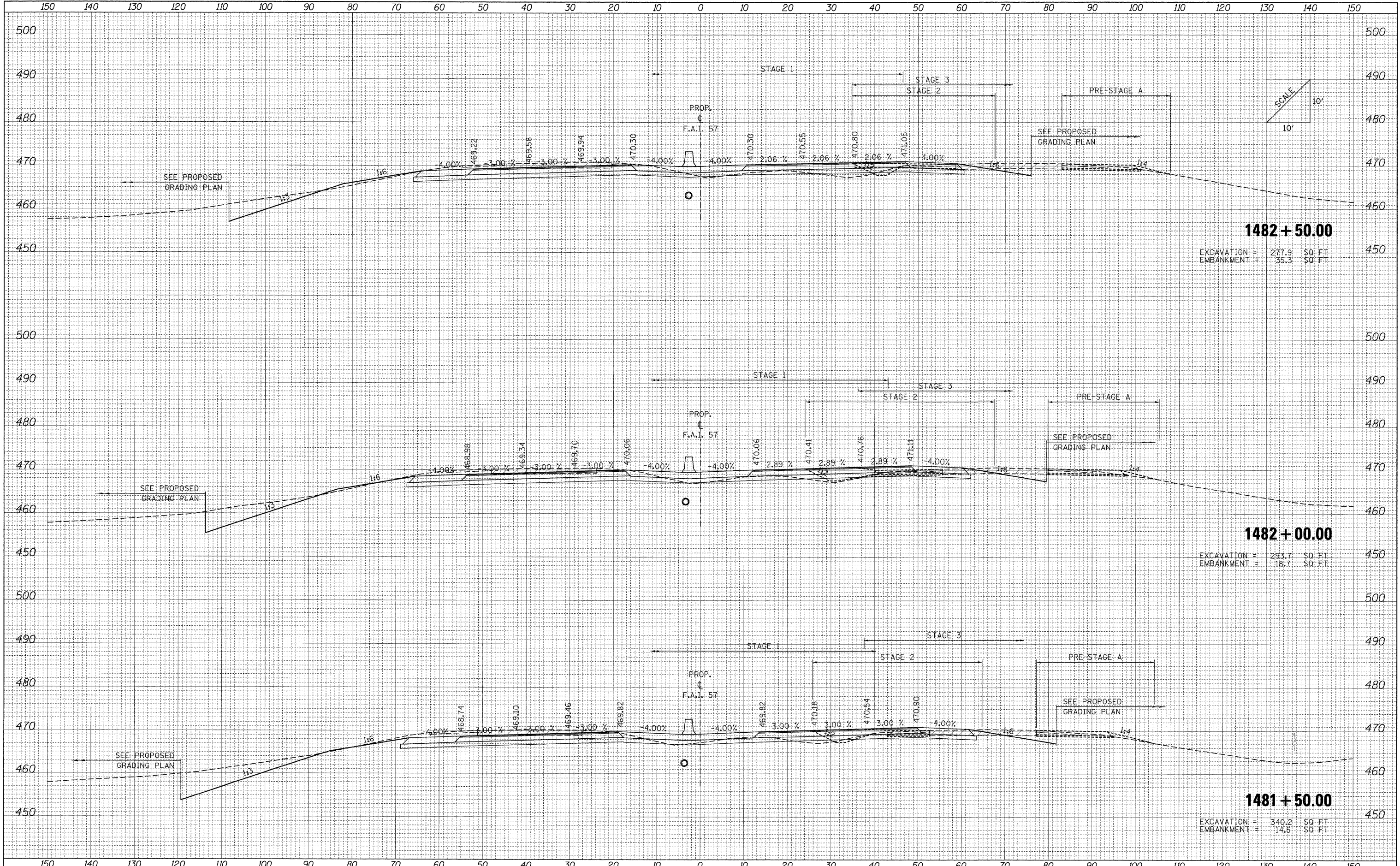
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS: F.A.I. 57			
SCALE:	SHEET NO.	OF	SHEETS
			STA. 1480+00.00 TO STA. 1481+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• XI-6-2HBK-2, HB-1,2; IX-1R-1	WILLIAMSON	968	788	
• F.A.I. 57 AND F.A.P. 331				CONTRACT NO. 78182
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

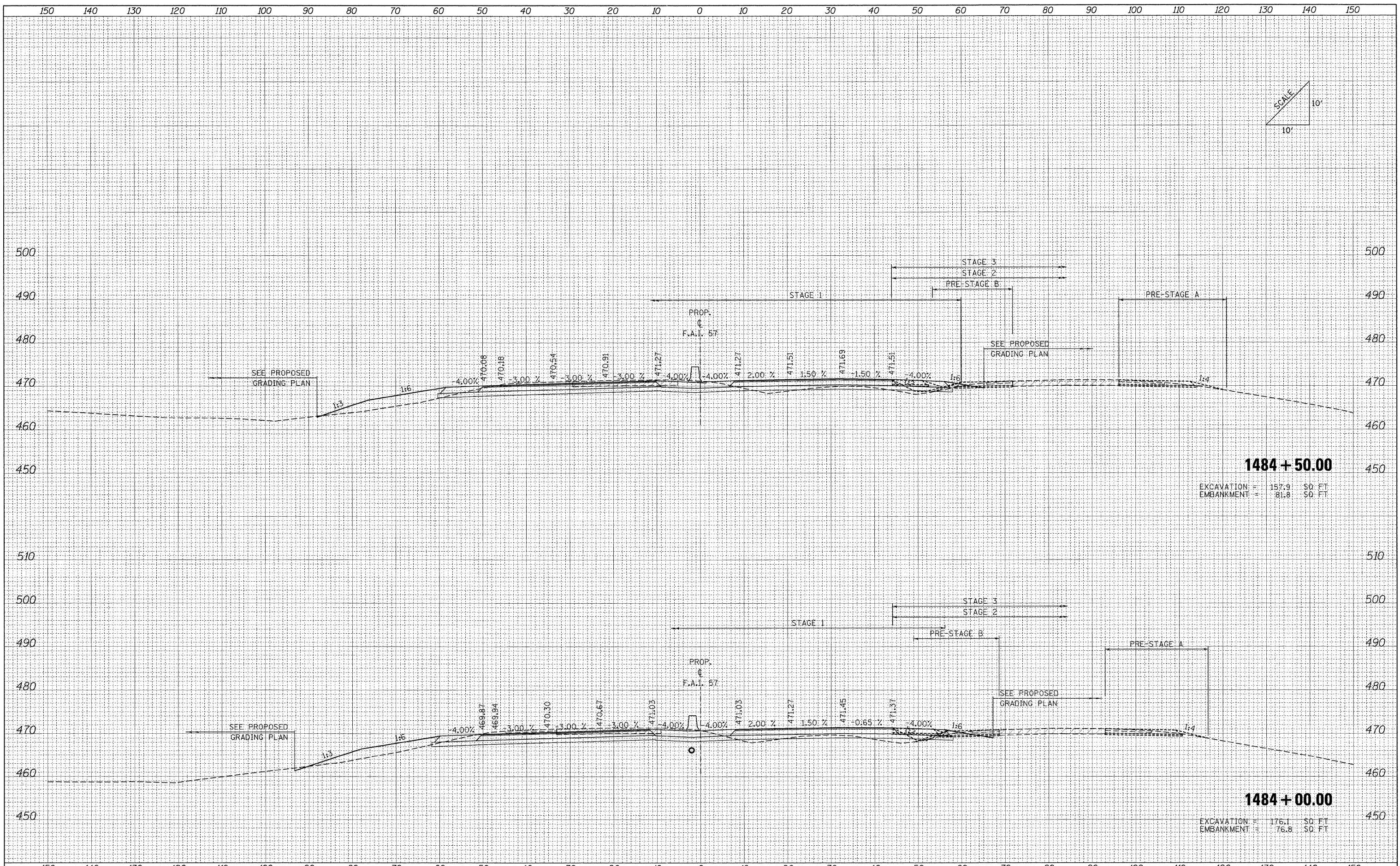
DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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FINAL SURVEY	SURVEYED	BY	DATE
PLOTTED	NOTED		
AREAS	CHECKED		
NO.			

ORIGINAL SURVEY	SURVEYED	BY	DATE
PLOTTED	NOTED		
AREAS	CHECKED		
NO.			



1484 + 50.00
 EXCAVATION = 157.9 SQ. FT.
 EMBANKMENT = 81.8 SQ. FT.

1484 + 00.00
 EXCAVATION = 176.1 SQ. FT.
 EMBANKMENT = 76.8 SQ. FT.

FILE NAME = ...D976182-shr-XCS_157.dgn
 USER NAME = Rob Heady
 PLOT SCALE = 10.0000 / IN.
 PLOT DATE = 10/10/2011

DESIGNED	- MJO	REVISED	-
DRAWN	- MJO	REVISED	-
CHECKED	- BJD	REVISED	-
DATE	- 10/07/11	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

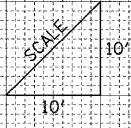
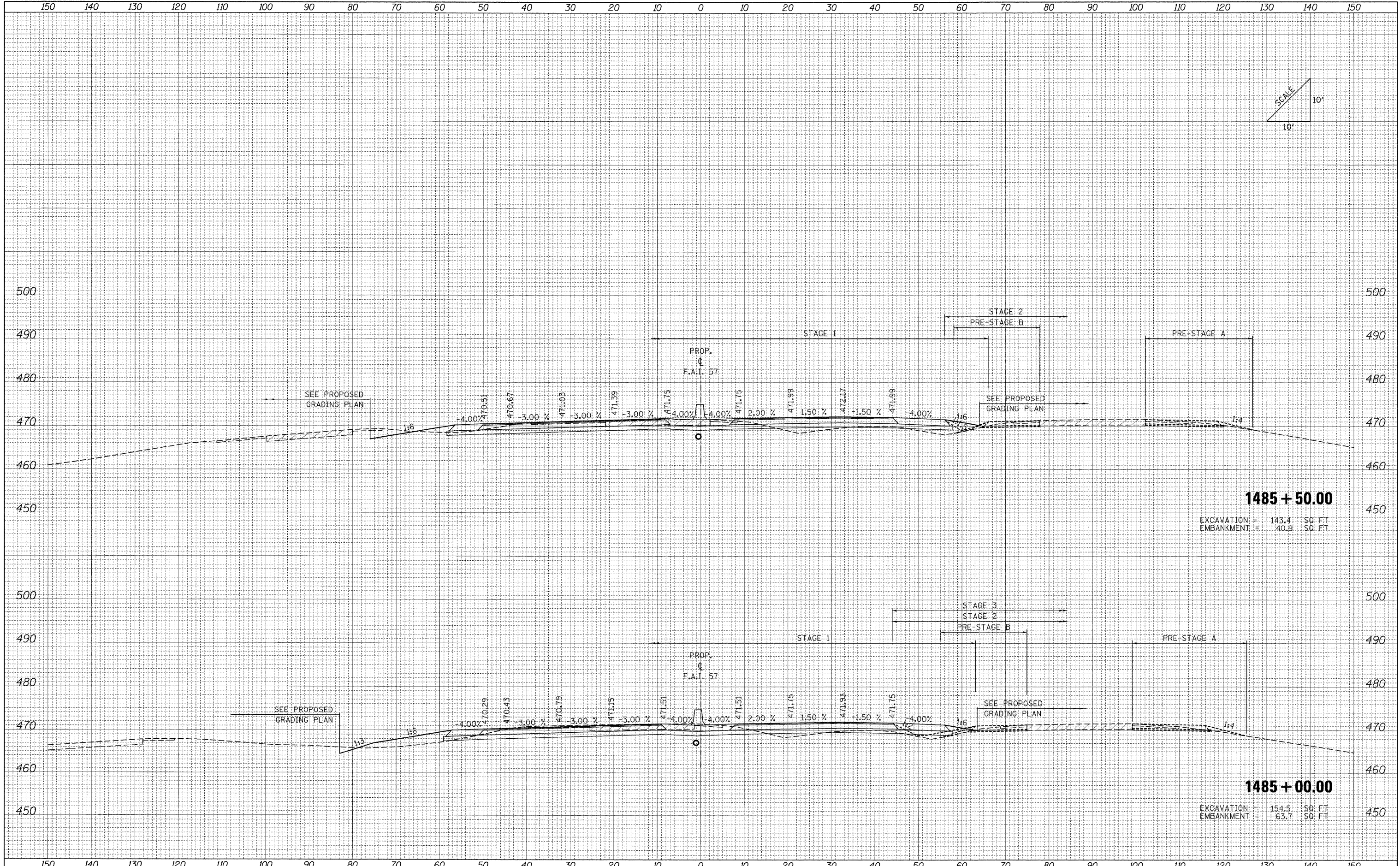
CROSS SECTIONS: F.A.I. 57

SCALE: SHEET NO. OF SHEETS STA. 1484+00.00 TO STA. 1484+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* (X1-6-2)HBK-2, HB-1,2; (1X-1)R-1	WILLIAMSON	968	791	
* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	
BY	
NO.	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
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ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



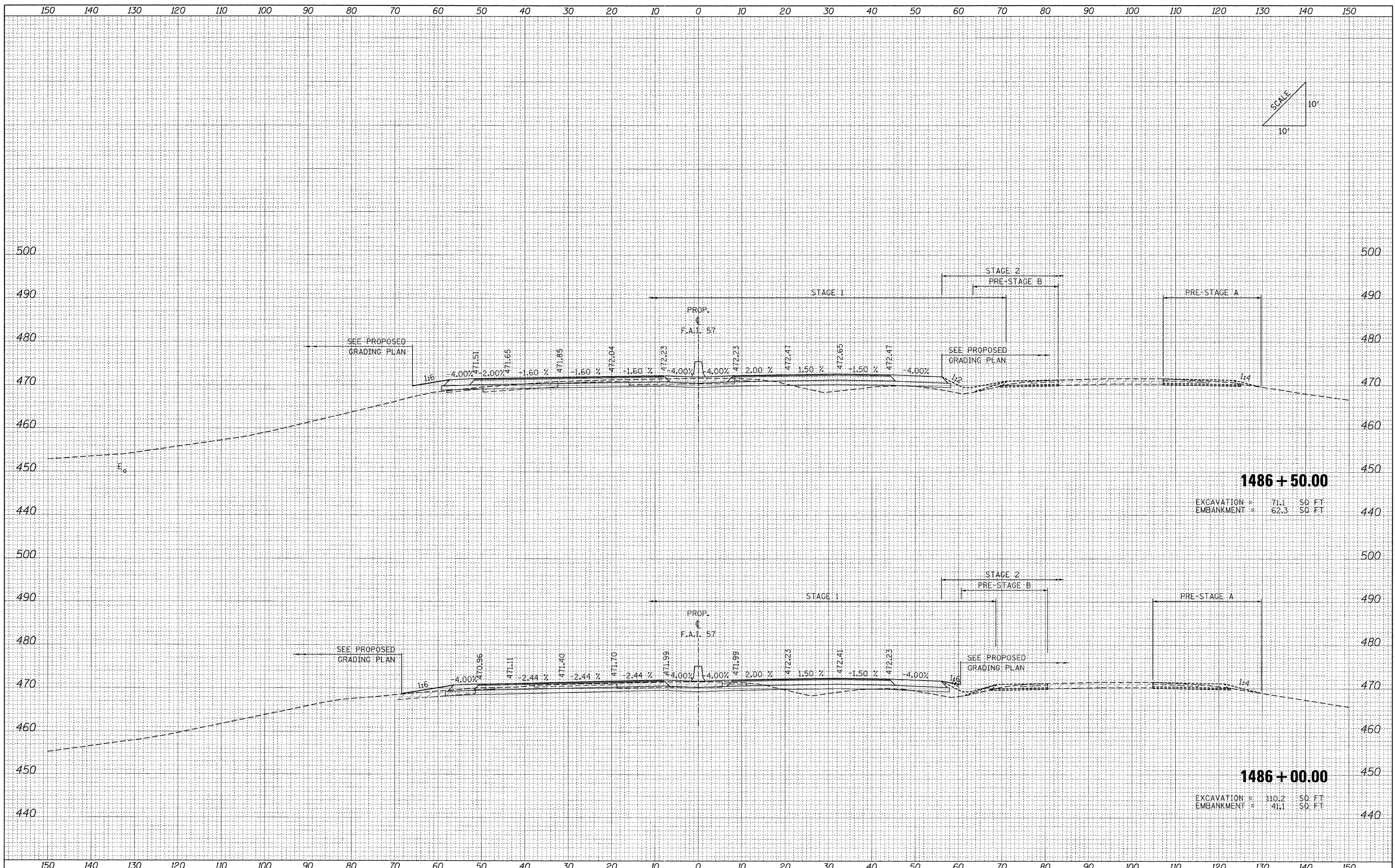
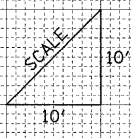
1485 + 50.00
 EXCAVATION = 143.4 SQ FT
 EMBANKMENT = 40.8 SQ FT

1485 + 00.00
 EXCAVATION = 154.5 SQ FT
 EMBANKMENT = 63.7 SQ FT

FILE NAME = ...D978182-eh-t-XCS.157.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MJO	REVISED -		• (X1-6-2)HBK-2, HB-1,2; (IX-1R-1)	WILLIAMSON	968	792				
		CHECKED - BJD	REVISED -		• F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182				
		DATE - 10/07/11	REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT						
					SCALE:	SHEET NO.	OF	SHEETS	STA. 1485+00.00 TO STA. 1485+50.00			

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	EMPAVE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	EMPAVE	
	AREAS	
	CHECKED	



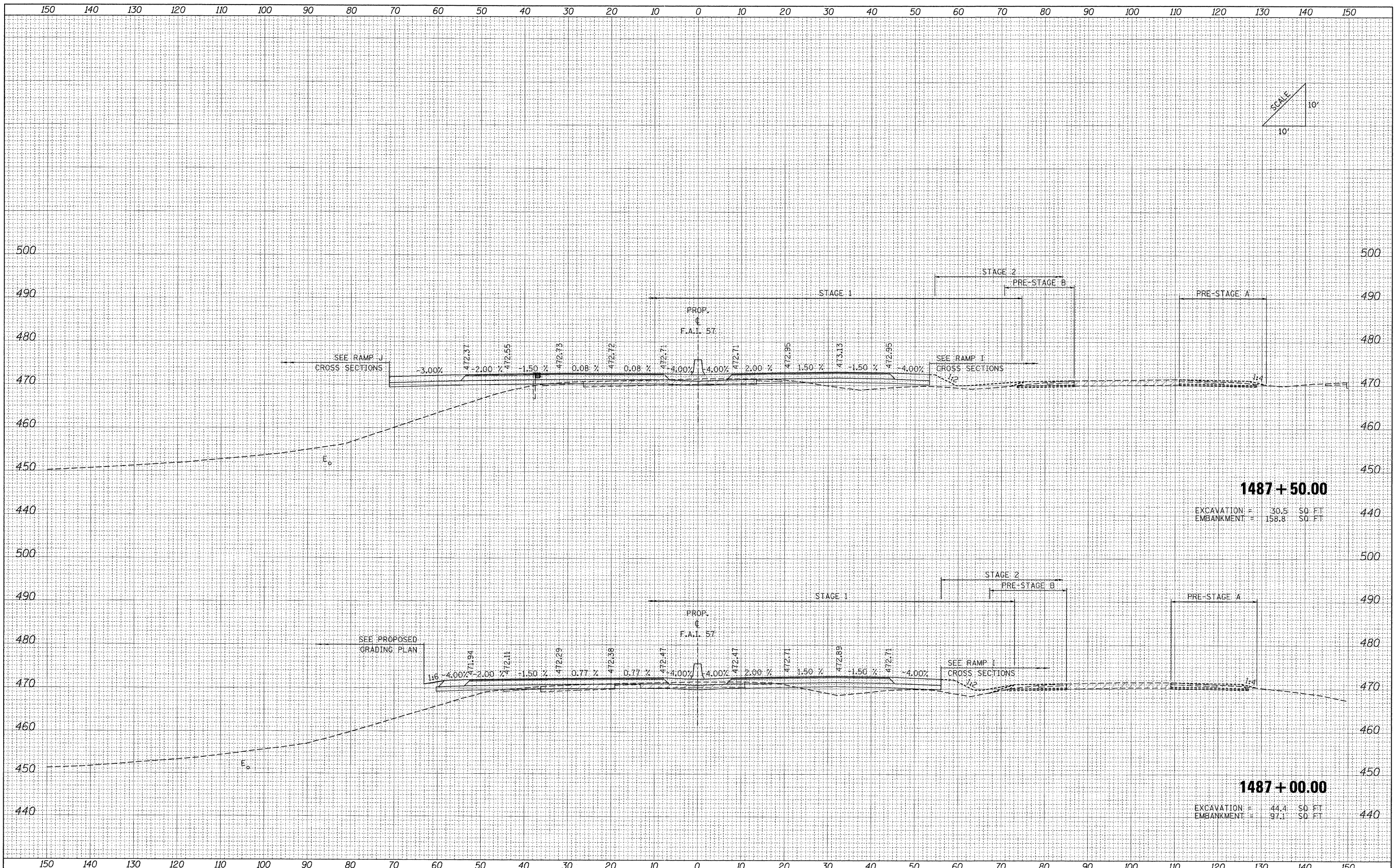
1486 + 50.00
 EXCAVATION = 71.1 SD FT
 EMBANKMENT = 62.3 SD FT

1486 + 00.00
 EXCAVATION = 110.2 SD FT
 EMBANKMENT = 41.1 SD FT

FILE NAME = ...D978182-ef-t-XCS_157.dgn	USER NAME = Rob Headly	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MJO	REVISED -			* (X1-6-2)HBK-2, HB-1,2; (1X-1R-1)	WILLIAMSON	968	793	
		CHECKED - BJD	REVISED -			* F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182	
		DATE - 10/07/11	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS CHECKED		



1487+50.00
 EXCAVATION = 30.5 SQ. FT.
 EMBANKMENT = 158.8 SQ. FT.

1487+00.00
 EXCAVATION = 44.4 SQ. FT.
 EMBANKMENT = 97.1 SQ. FT.

FILE NAME = ...D978182-shr-XCS.157.dgn

USER NAME = Rob Healy
 DESIGNED - MJO
 DRAWN - MJO
 CHECKED - BJD
 DATE - 10/07/11

REVISED -
 REVISED -
 REVISED -
 REVISED -

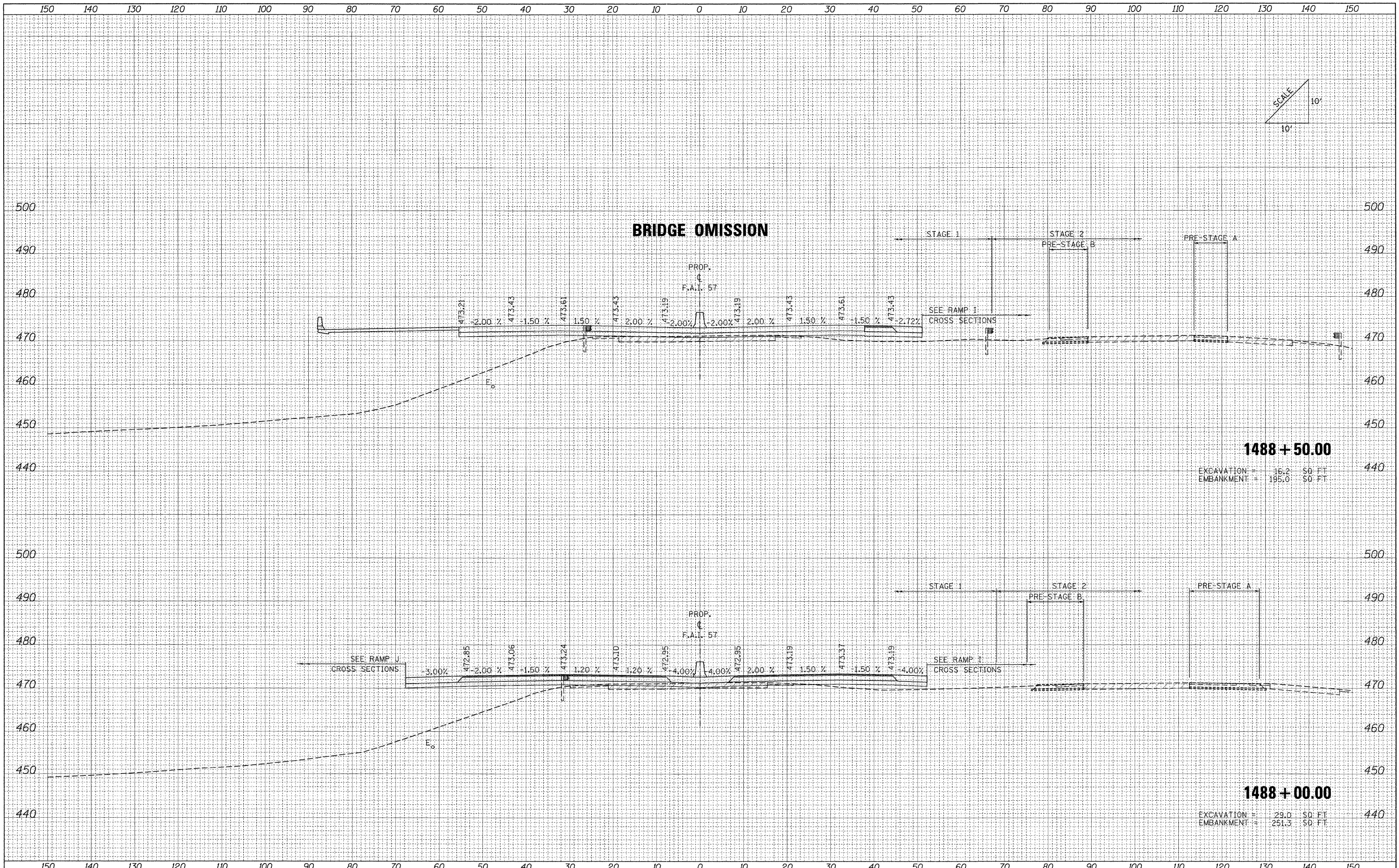
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS: F.A.I. 57
 SCALE: SHEET NO. OF SHEETS STA. 1487+00.00 TO STA. 1487+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• XI-6-2HBK-2, HB-1,2; (IX-1R-1	WILLIAMSON	968	794	
• F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	DATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	DATE	
	AREAS CHECKED	



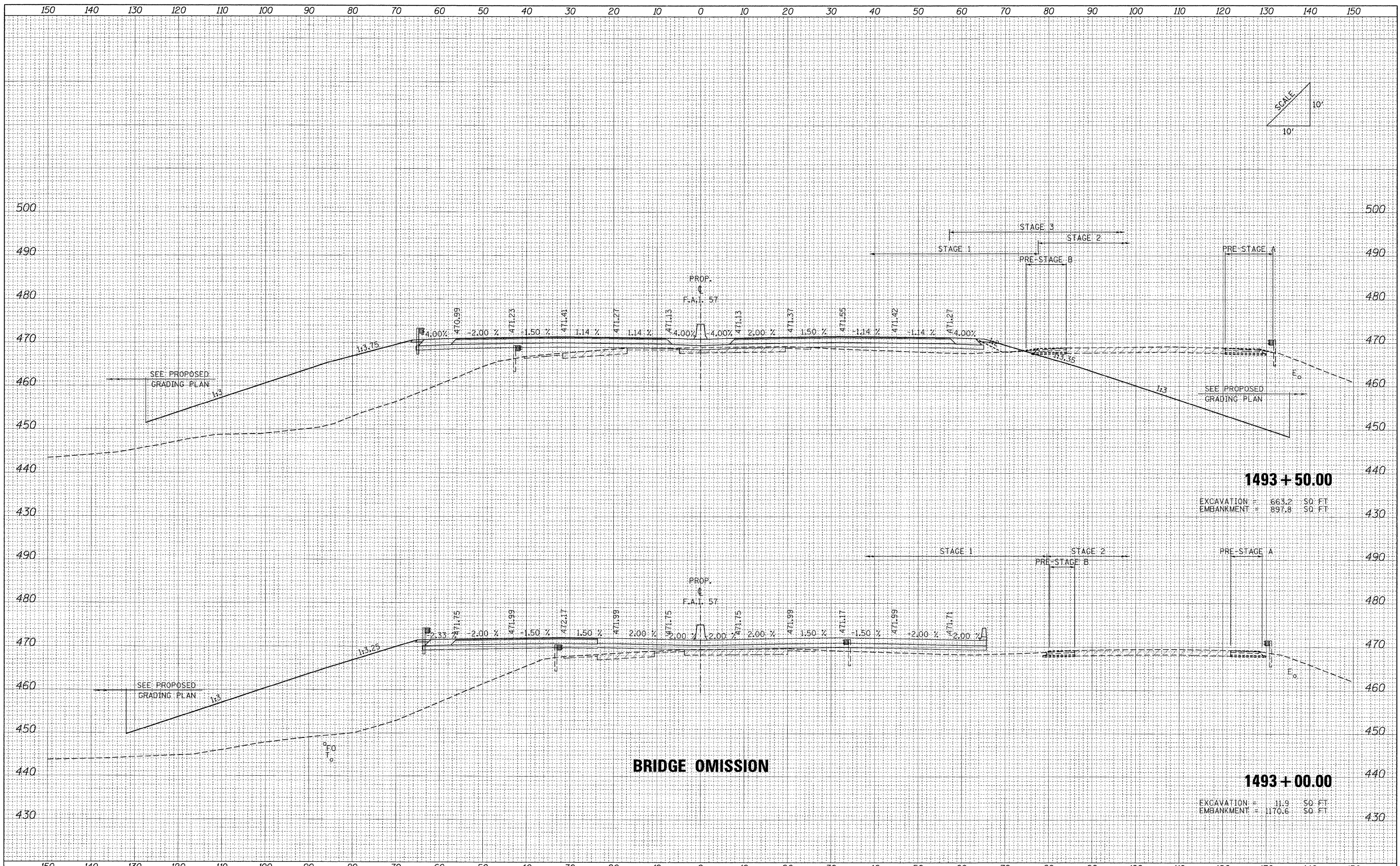
1488 + 50.00
 EXCAVATION = 16.2 SO FT
 EMBANKMENT = 195.0 SO FT

1488 + 00.00
 EXCAVATION = 29.0 SO FT
 EMBANKMENT = 251.3 SO FT

FILE NAME = ...N0978182-sht-XCS.157.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 10.0000 / IN.	DRAWN - MJO	REVISED -			* (X1-6-2)HBK-2, HB-1,2; (1X-1)R-1	WILLIAMSON	968	795	
	PLOT DATE = 10/10/2011	CHECKED - BJD	REVISED -			* F.A.I. 57 AND F.A.P. 331			CONTRACT NO. 78182	
		DATE - 10/07/11	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS CHECKED		



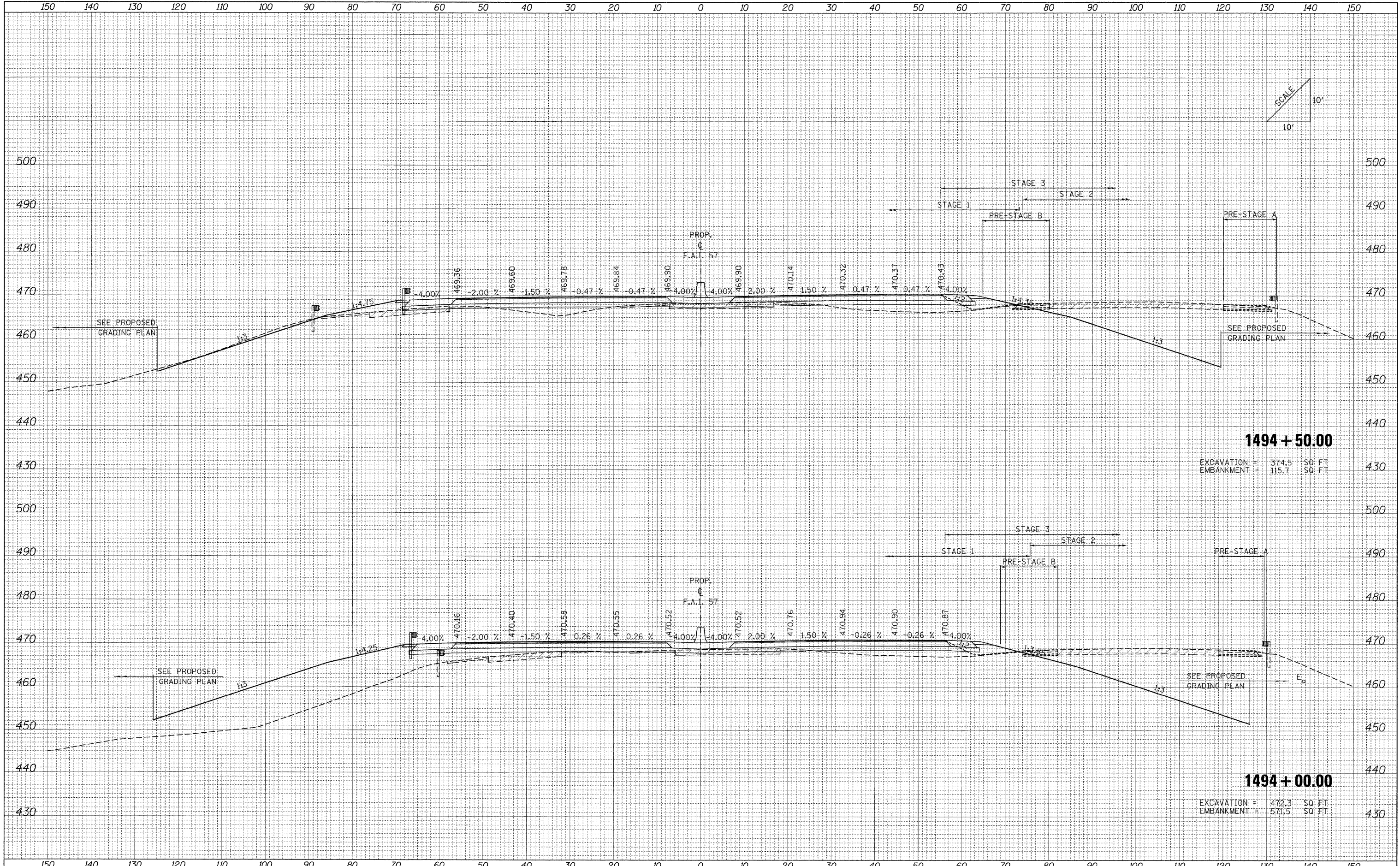
1493 + 50.00
 EXCAVATION = 663.2 SO. FT.
 EMBANKMENT = 897.8 SO. FT.

1493 + 00.00
 EXCAVATION = 11.9 SO. FT.
 EMBANKMENT = 1170.6 SO. FT.

FILE NAME = ...D978182-sht-XCS_157.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DESIGNED - MJO	REVISED -	* XI-6-2HBK-2, HB-1,2 (1X-1R-1)			WILLIAMSON	968	796		
	DRAWN - MJO	REVISED -	* F.A.I. 57 AND F.A.P. 331							
	CHECKED - BJD	REVISED -								
	DATE 10/07/11	REVISED -								
SCALE: SHEET NO. OF SHEETS STA. 1493+00.00 TO STA. 1493+50.00						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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ORIGINAL SURVEY	
SURVEYED	
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NOTE BOOK	
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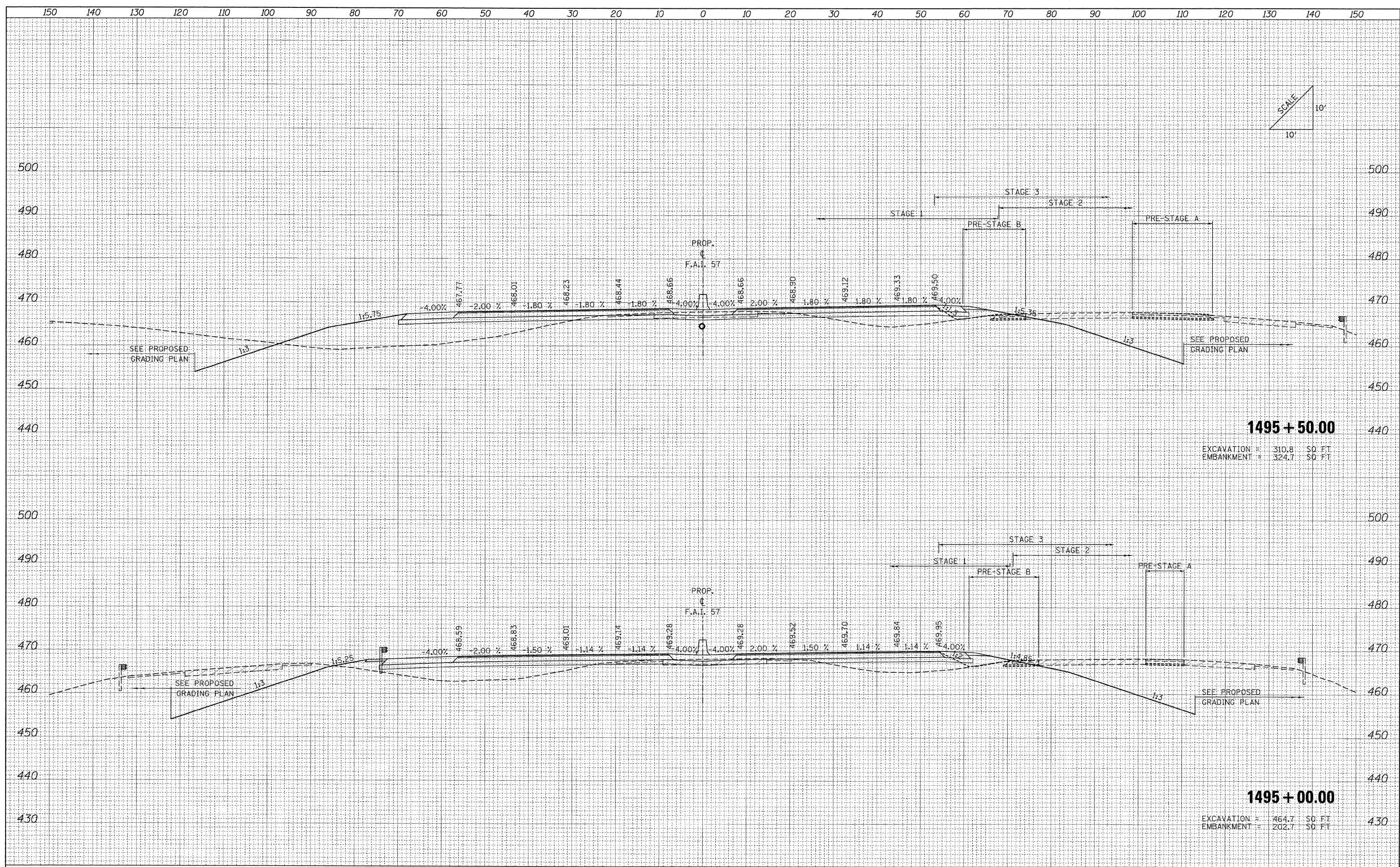
1494 + 50.00
 EXCAVATION = 374.5 SQ. FT.
 EMBANKMENT = 115.7 SQ. FT.

1494 + 00.00
 EXCAVATION = 472.3 SQ. FT.
 EMBANKMENT = 571.5 SQ. FT.

FILE NAME = ...10978182-sht-XCS_157.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MJO	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 1494+00.00 TO STA. 1494+50.00	• (X1-6-2)HBK-2, HB-1,2; (1X-1)R-1	WILLIAMSON	968	797
		CHECKED - BJD	REVISED -							• F.A.I. 57 AND F.A.P. 331			
		DATE - 10/07/11	REVISED -							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

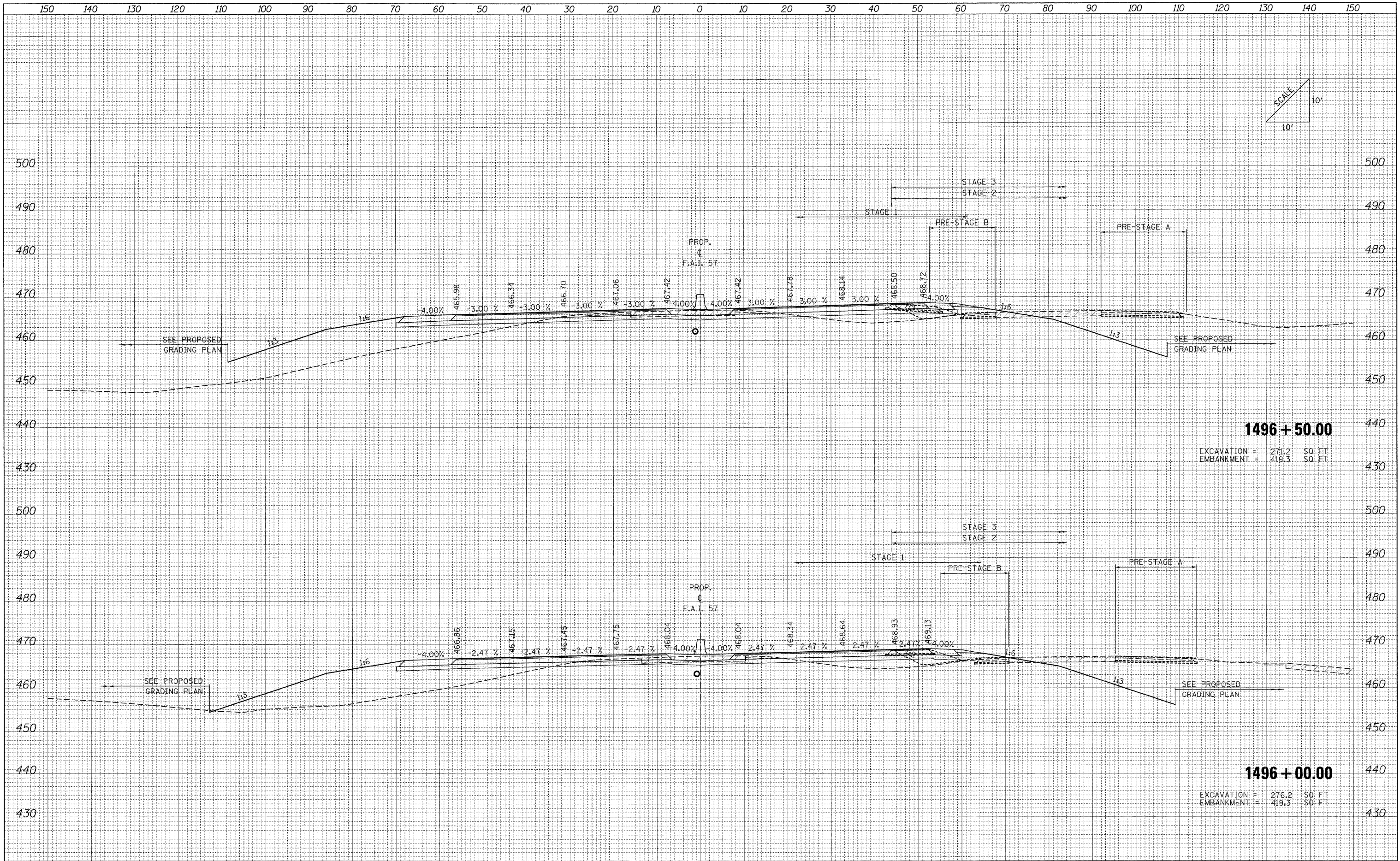
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	



FILE NAME = ...10978182-sht-XCS.157.dgn	USER NAME = Rob Healy	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLLOT SCALE = 10.0000' / IN.	DRAWN - MJO	REVISED -				* (X1-6-2)HBK-2, HB-1,2; (X-1)R-1	WILLIAMSON	968	798	
	PLLOT DATE = 10/10/2011	CHECKED - BJD	REVISED -		* F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182					
		DATE - 10/07/11	REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT					

DATE	
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FINAL SURVEY	
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NOTE BOOK	
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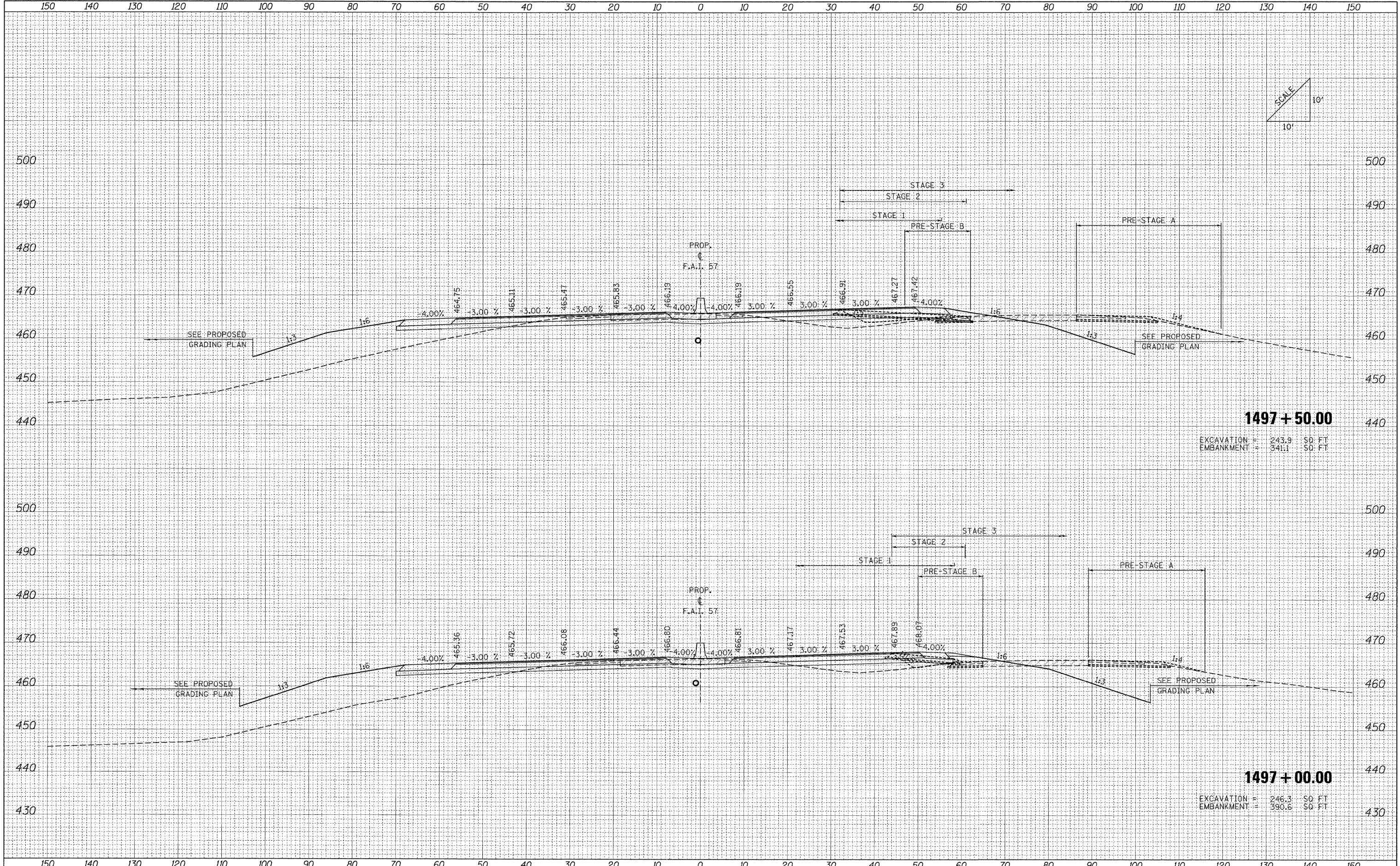
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ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
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FILE NAME = ...D978182-sh1-XCS_157.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 10.0000' / IN.	DRAWN - MJO	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 1496+00.00 TO STA. 1496+50.00	• (X1-6-2)HBK-2, HB-1,2; (1X-1R-1)	WILLIAMSON	968	799
	PLOT DATE = 10/10/2011	CHECKED - BJD	REVISED -							• F.A.I. 57 AND F.A.P. 331	CONTRACT NO. 78182		
		DATE - 10/07/11	REVISED -							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS: F.A.I. 57				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...C:\978182-sh1-XCS_157.dgn		DRAWN - MJO	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 1497+00.00 TO STA. 1497+50.00	• (X1-6-2)HBK-2, HB-1,2; (1X-1R-1	WILLIAMSON	968	800	
		CHECKED - BJD	REVISED -							• F.A.I. 57 AND F.A.P. 331				CONTRACT NO. 78182
		DATE - 10/07/11	REVISED -							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			