

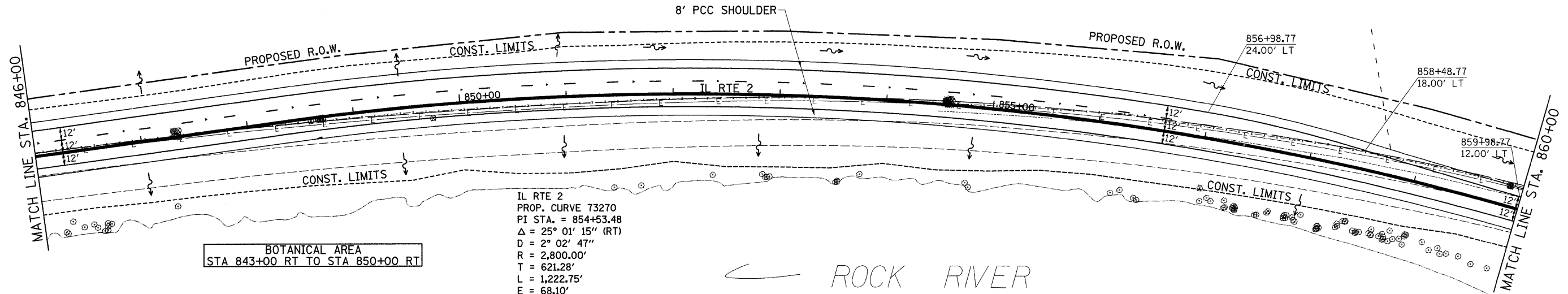
SERGIO AND BONNIE ANN CESCOLINI

ALLEN CALMING, JR.



PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK	
	NO.	

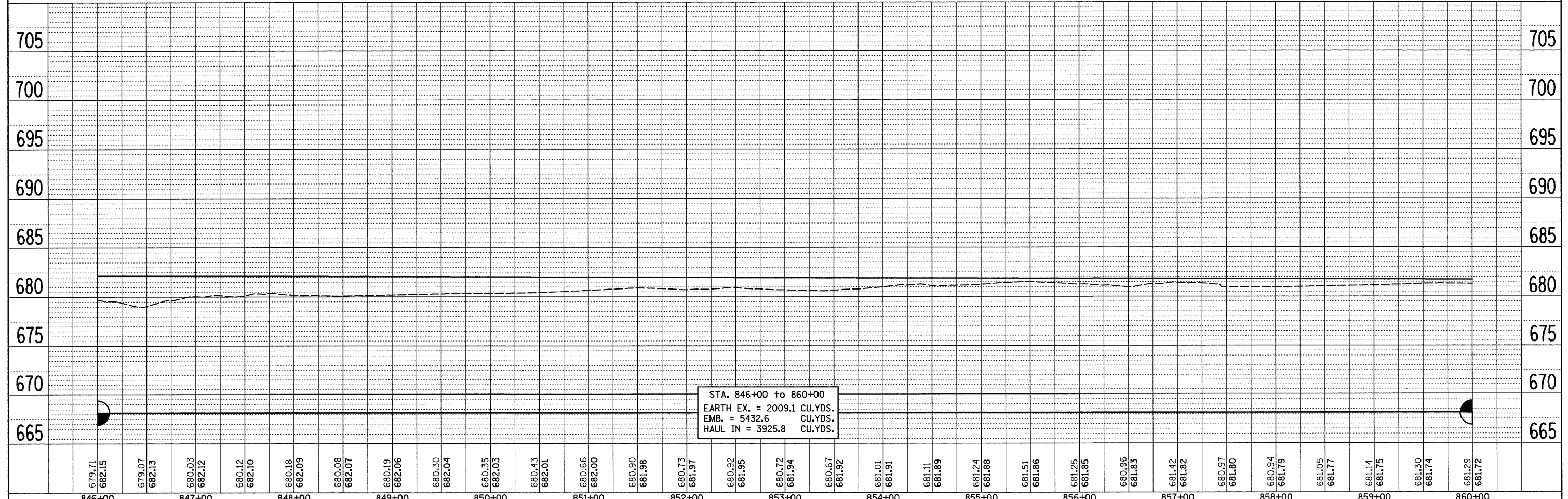
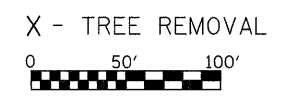
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK	
	NO.	



IL RTE 2  
 PROP. CURVE 73270  
 PI STA. = 854+53.48  
 $\Delta = 25^\circ 01' 15''$  (RT)  
 $D = 2^\circ 02' 47''$   
 $R = 2,800.00'$   
 $T = 621.28'$   
 $L = 1,222.75'$   
 $E = 68.10'$   
 $e = 4.1\%$   
 P.C. T.R. = 58'  
 P.C. S.E. RUN = 159'  
 P.T. T.R. = 38'  
 P.T. S.E. RUN = 105'  
 P.C. STA. = 848+32.20  
 P.T. STA. = 860+54.95

BOTANICAL AREA  
 STA 843+00 RT TO STA 850+00 RT

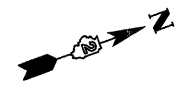
← ROCK RIVER



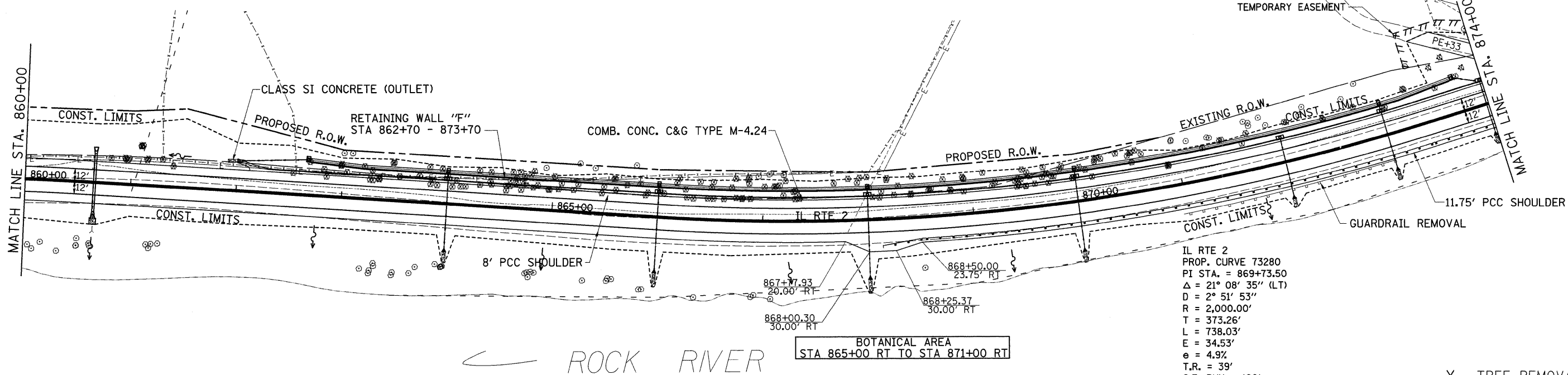
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at:\pwork\PWIDOT\GRANTPM\dms31213\d06680	plh2.dgn	DRAWN -	REVISED -	<b>DEPARTMENT OF TRANSPORTATION</b>		CONTRACT NO. 64E17				
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT				
PLOT DATE = Tue Mar 30 11:40:18 2010		DATE -	REVISED -							

ALLEN CALMING, JR.

EARL & ARLENE CLINE, TRUSTEES



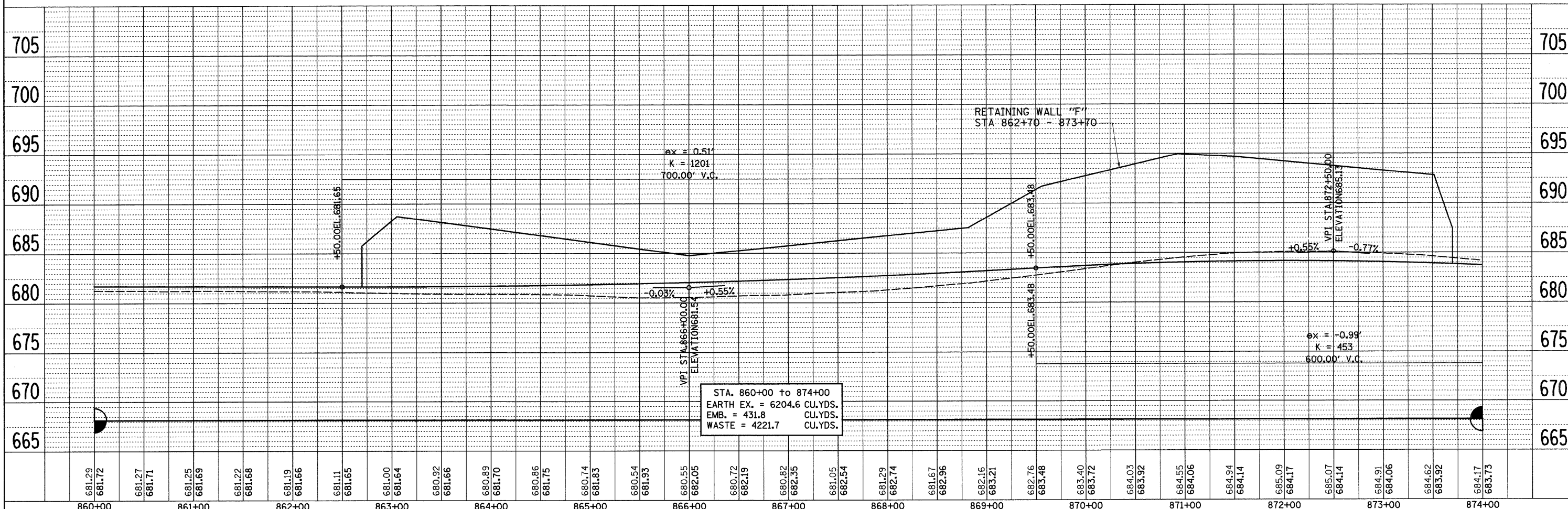
PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF MAY CHECKED	
	CADD FILE NAME	



IL RTE 2  
 PROP. CURVE 73280  
 PI STA. = 869+73.50  
 $\Delta = 21^\circ 08' 35''$  (LT)  
 $D = 2^\circ 51' 53''$   
 $R = 2,000.00'$   
 $T = 373.26'$   
 $L = 738.03'$   
 $E = 34.53'$   
 $e = 4.9\%$   
 $T.R. = 39'$   
 $S.E. RUN = 126'$   
 $P.C. STA. = 866+00.24$   
 $P.T. STA. = 873+38.27$

X - TREE REMOVAL  
 0 50' 100'

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF MAY CHECKED	
	STRUCTURE NOTATIONS CHECKED	



STA. 860+00 to 874+00  
 EARTH EX. = 6204.6 CU.YDS.  
 EMB. = 431.8 CU.YDS.  
 WASTE = 4221.7 CU.YDS.

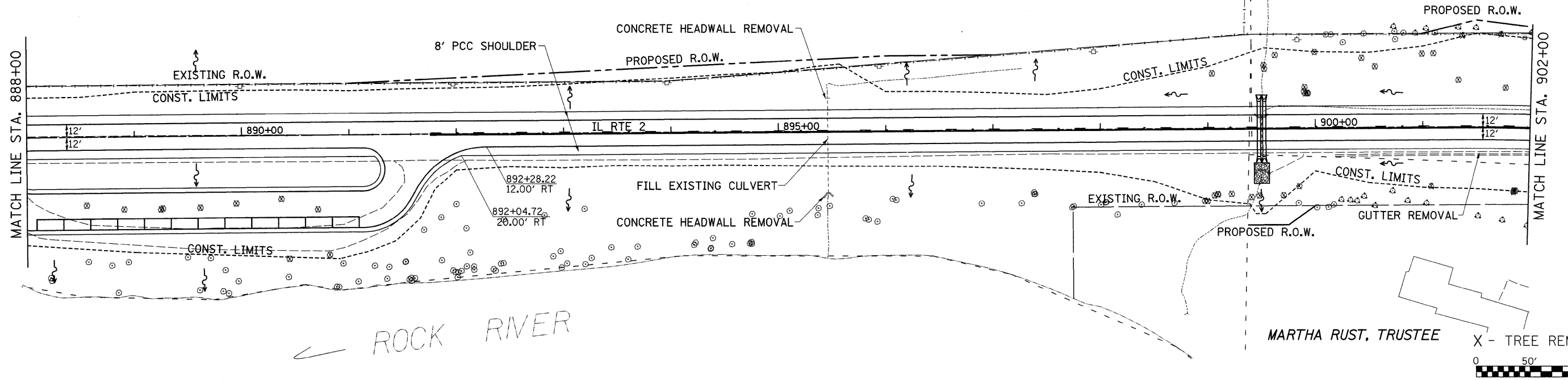
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ca:\pw\work\K\PIWIDOT\GRANTPM\dms31213\d06602p1n2.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	102	
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17					
PLOT DATE = Tue Mar 30 11:40:19 2010		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.



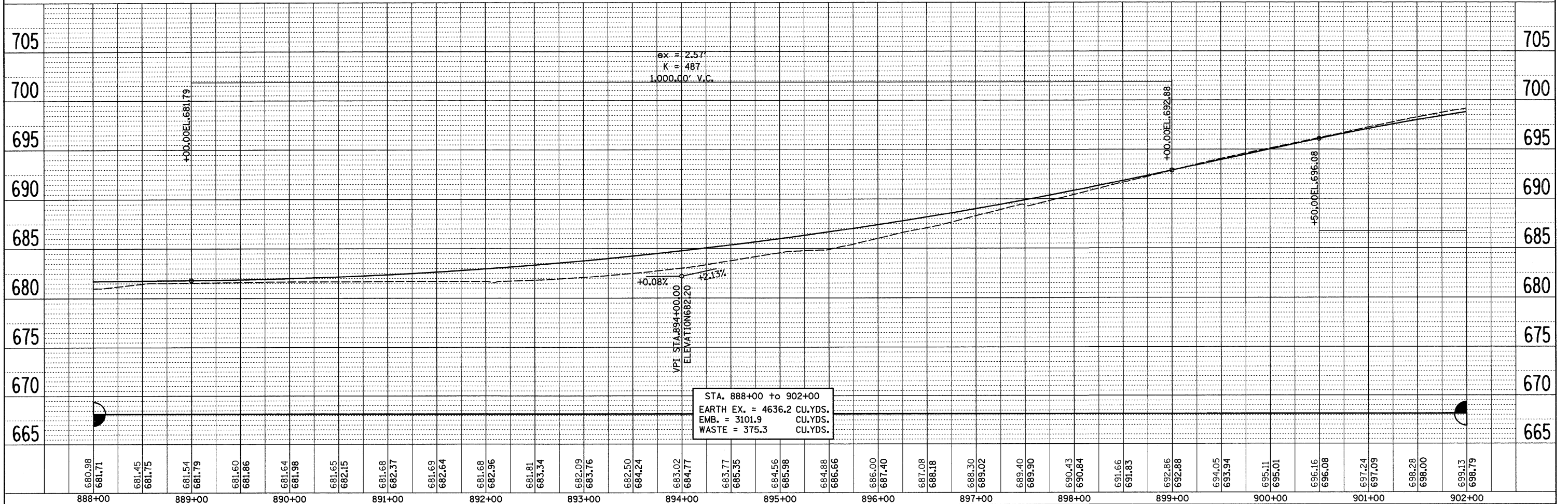
DAVID W. & DONNA L. KRUMM

CATHERINE & MICHAEL CALLAHAN

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	



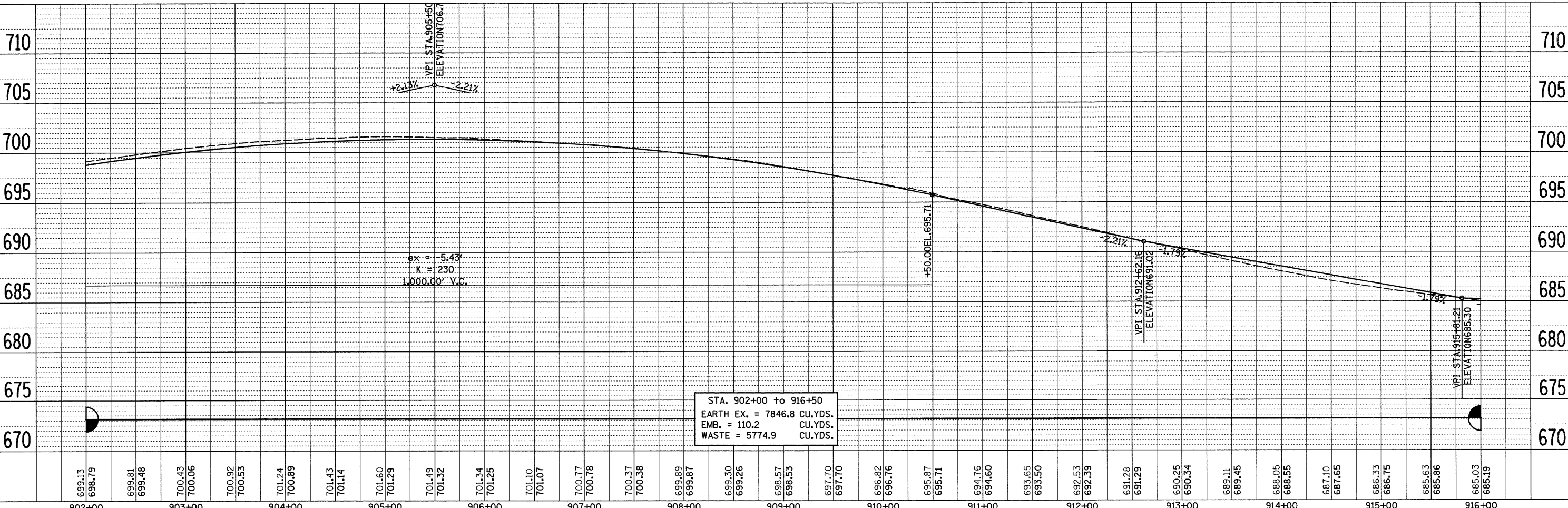
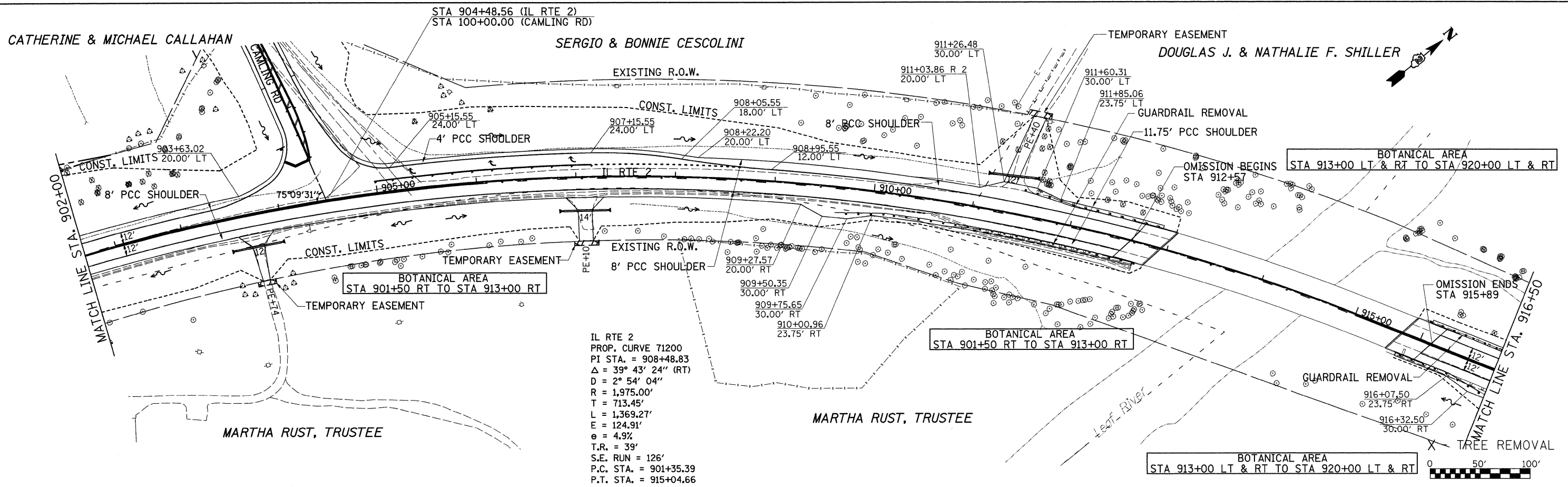
PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 2</b>	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 104
CONTRACT NO. 64E17	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -								
PLOT DATE = Tue Mar 30 11:48:22 2010	DATE -	REVISED -								

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	RT. OF WAY CHECKED		
	NO.		
	FILE NAME		

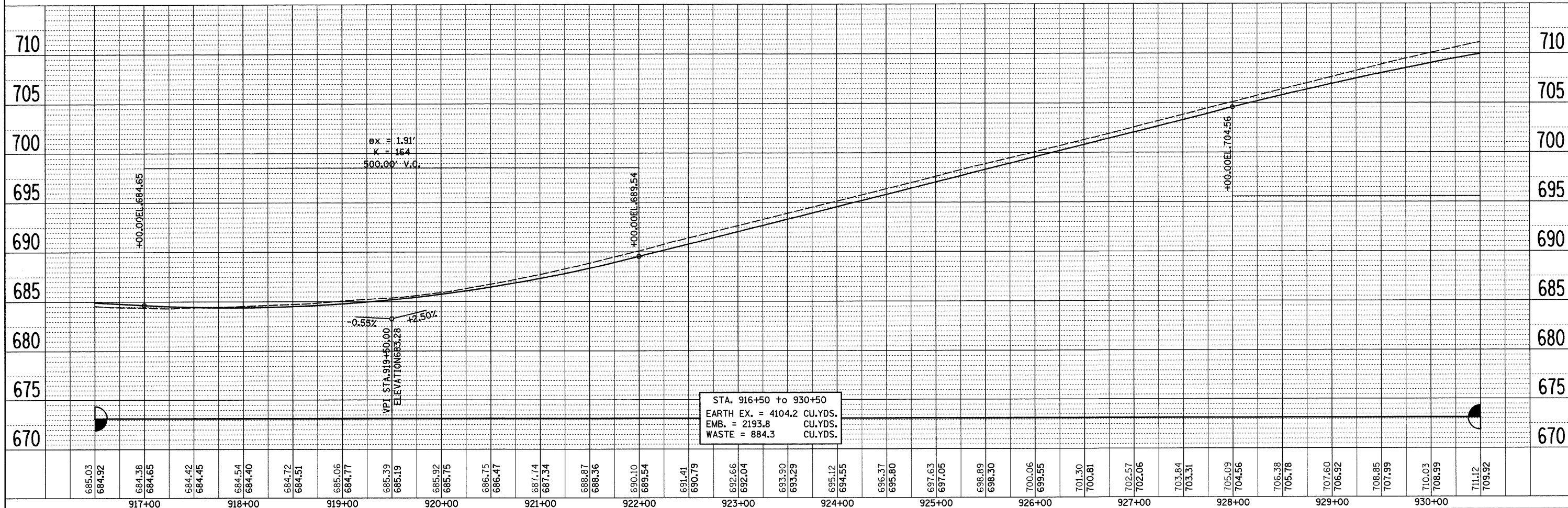
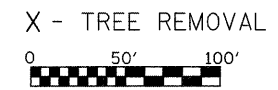
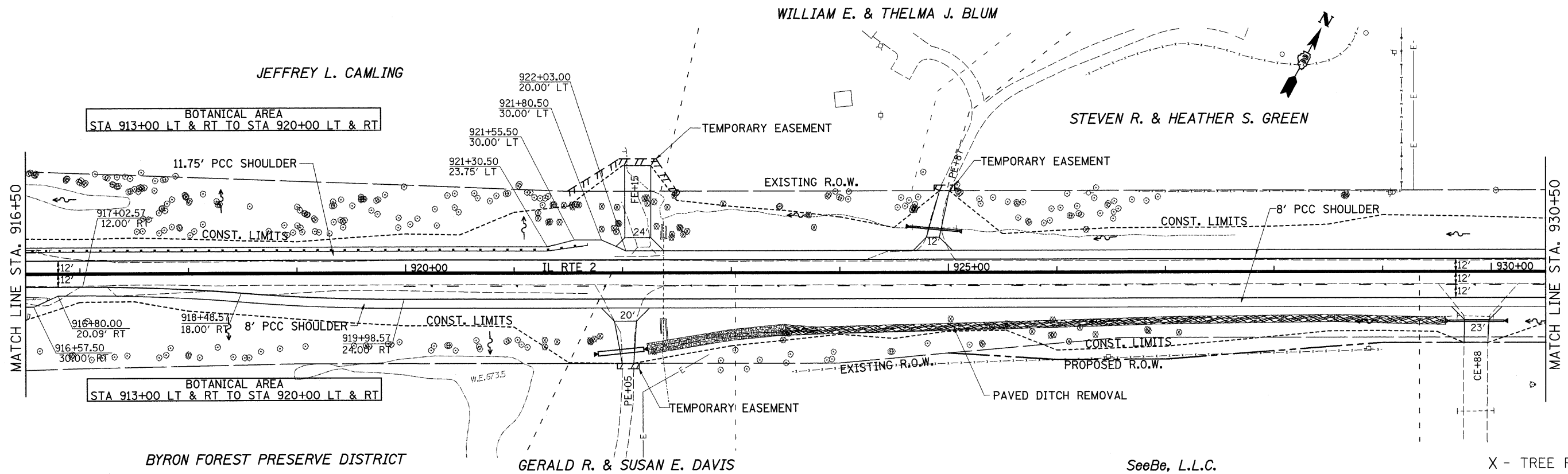
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	GRAND TOTAL		
	STRUCTURE NOTATIONS CHECKED		
	NO.		



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 2</b>	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 105
CONTRACT NO. 64E17	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 2</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pw_wor-k\p\IDOT\GRANTPM\dms31213\d06500p1r2.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	106
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17				
PLOT DATE = Tue Mar 30 11:40:25 2010		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FRANK NAVARRO, JR., KATHLEEN A. NAVARRO,  
DAVID L. BREVOORT, GRETCHEN L. WOOD &  
RONALD W. TILLET

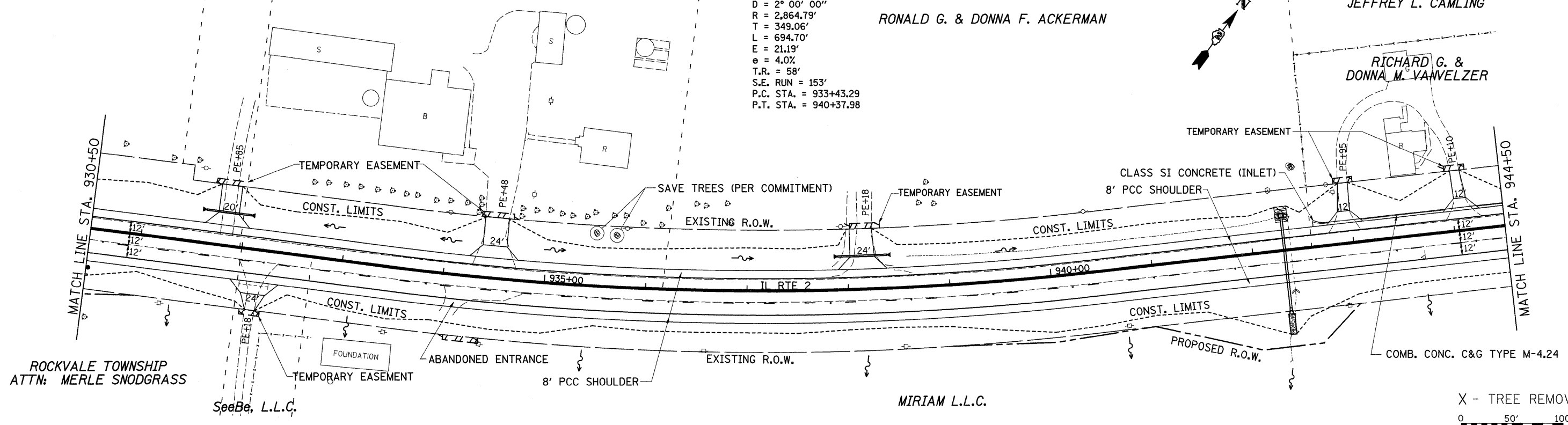
FRED H. & JACQUELINE M. WILLICH

IL RTE 2  
PROP. CURVE 71210  
PI STA. = 936+92.35  
 $\Delta = 13^\circ 53' 38''$  (LT)  
D = 2° 00' 00"  
R = 2,864.79'  
T = 349.06'  
L = 694.70'  
E = 21.19'  
e = 4.0%  
T.R. = 58'  
S.E. RUN = 153'  
P.C. STA. = 933+43.29  
P.T. STA. = 940+37.98

RONALD G. & DONNA F. ACKERMAN

JEFFREY L. CAMLING

RICHARD G. &  
DONNA M. VANVELZER



ROCKVALE TOWNSHIP  
ATTN: MERLE SNODGRASS

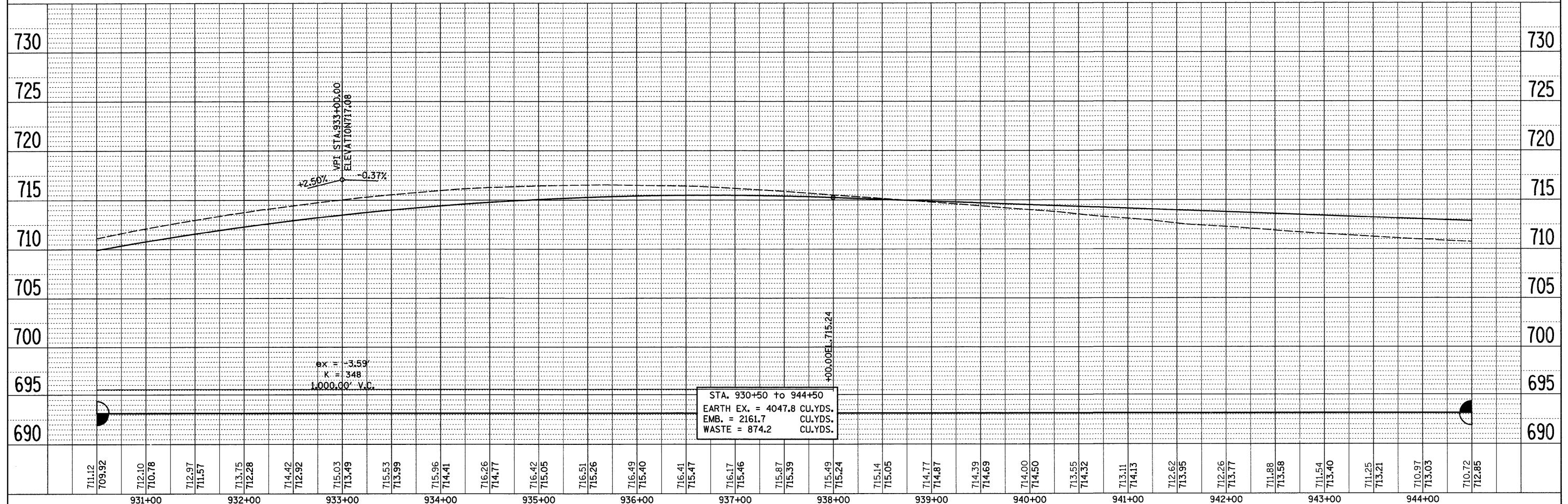
SeeBe, L.L.C.

MIRIAM L.L.C.

X - TREE REMOVAL  
0 50' 100'

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTED		
	NO. _____		

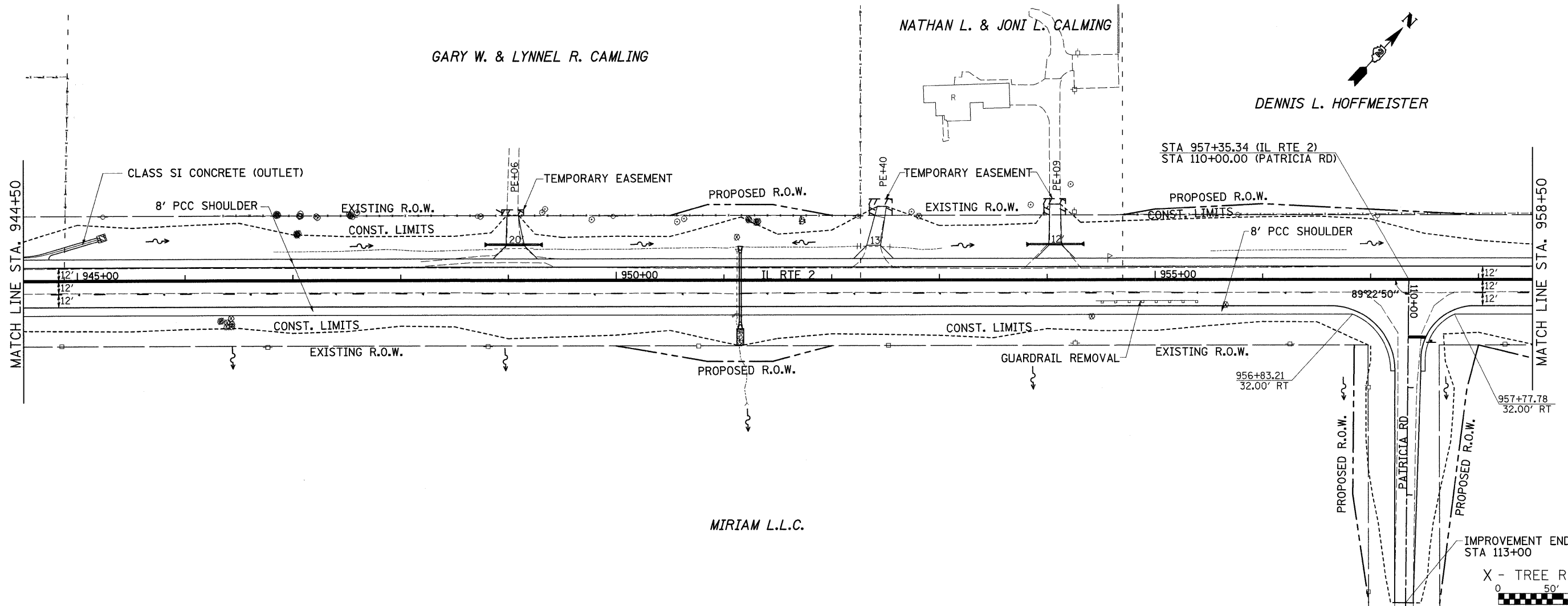
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	PLOTTED		
	NOTED		
	NO. _____		



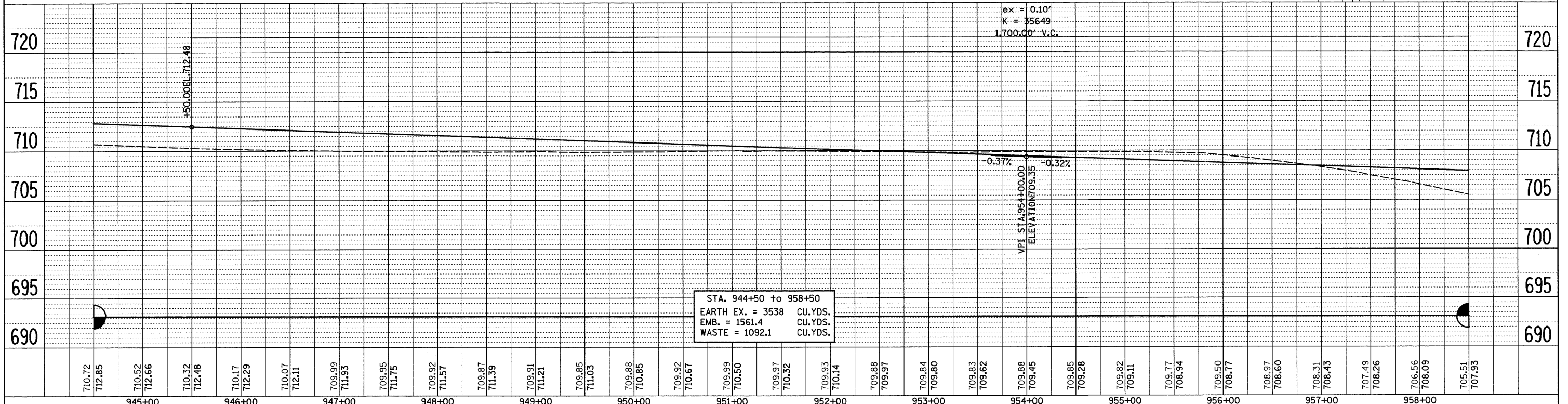
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ca:\pwork\PWIDOT\GRANTPM\dms31213\d06608p1n2.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	107
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17				
PLOT DATE = Tue Mar 30 11:48:27 2010		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	CADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



MIRIAM L.L.C.



STA. 944+50 to 958+50

EARTH EX. = 3538 CU.YDS.

EMB. = 1561.4 CU.YDS.

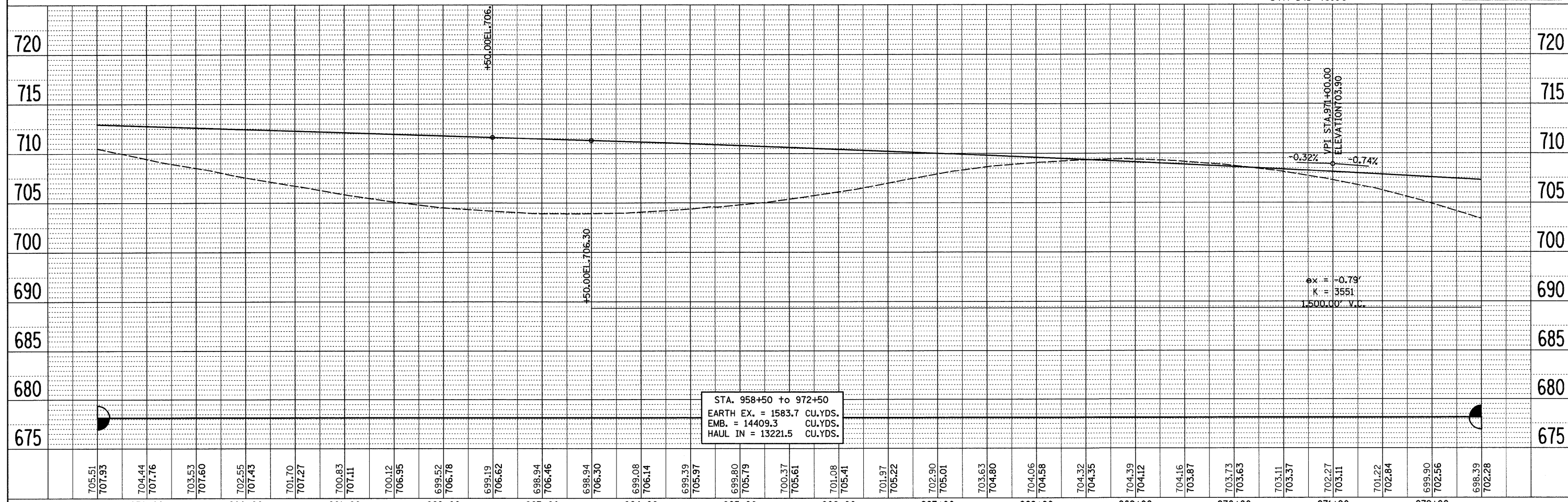
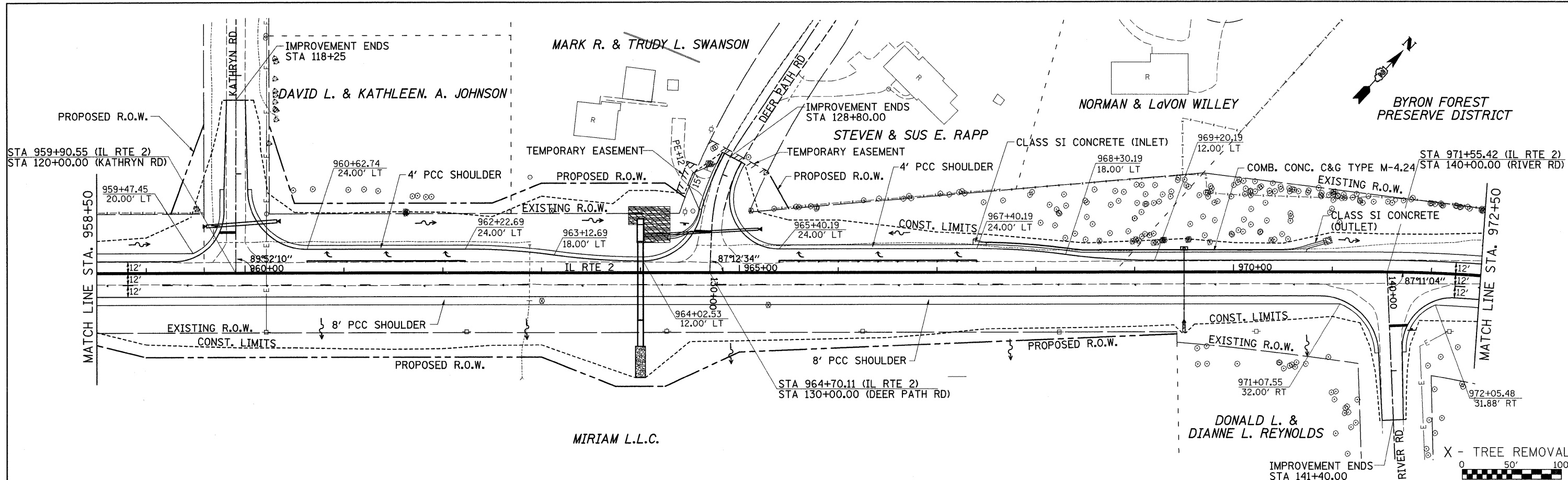
WASTE = 1092.1 CU.YDS.

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL 2</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
at:\pw_work\PWIDOT\GRANTPM\dms31213\dl06606\p1n2.dgn	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -			742	3TR-4	OGLE	867	108
PLOT DATE = Tue Mar 30 11:40:28 2010	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64E17				
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

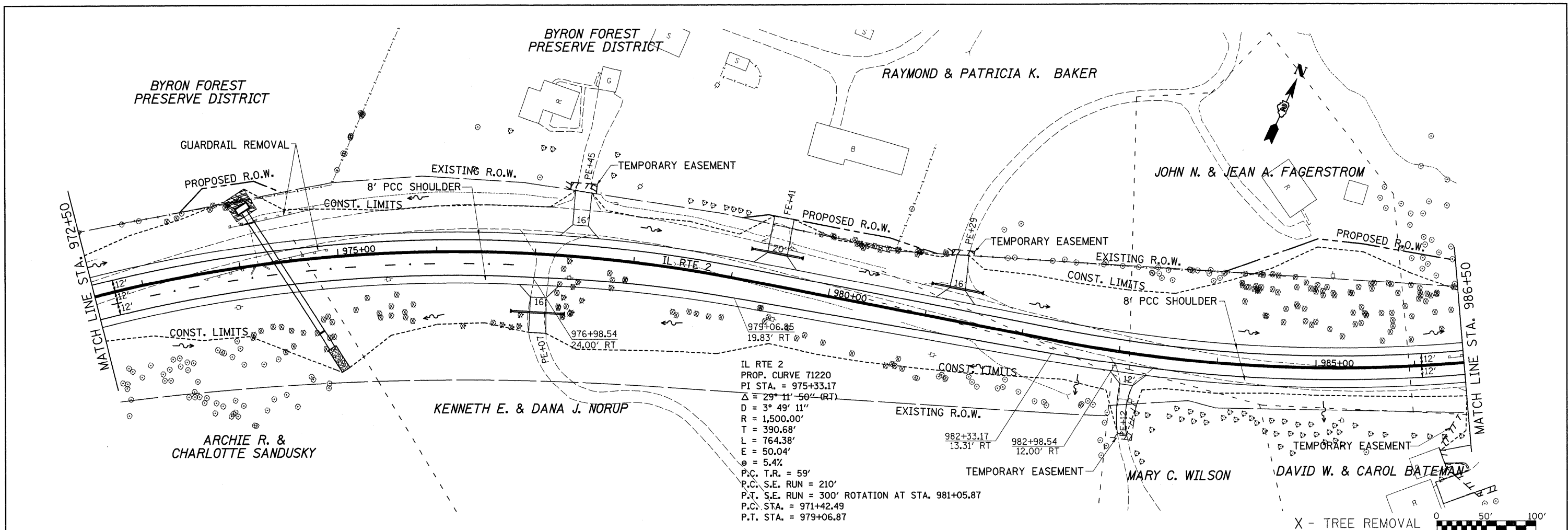
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 2</b>	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr\pwork\PMIDOT\GRANTPM\dms31213\d86606.pln2.dgn		DRAWN -	REVISED -			742	3TR-4	OGLE	867	109
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PLOT DATE = Tue Mar 30 11:40:29 2010		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

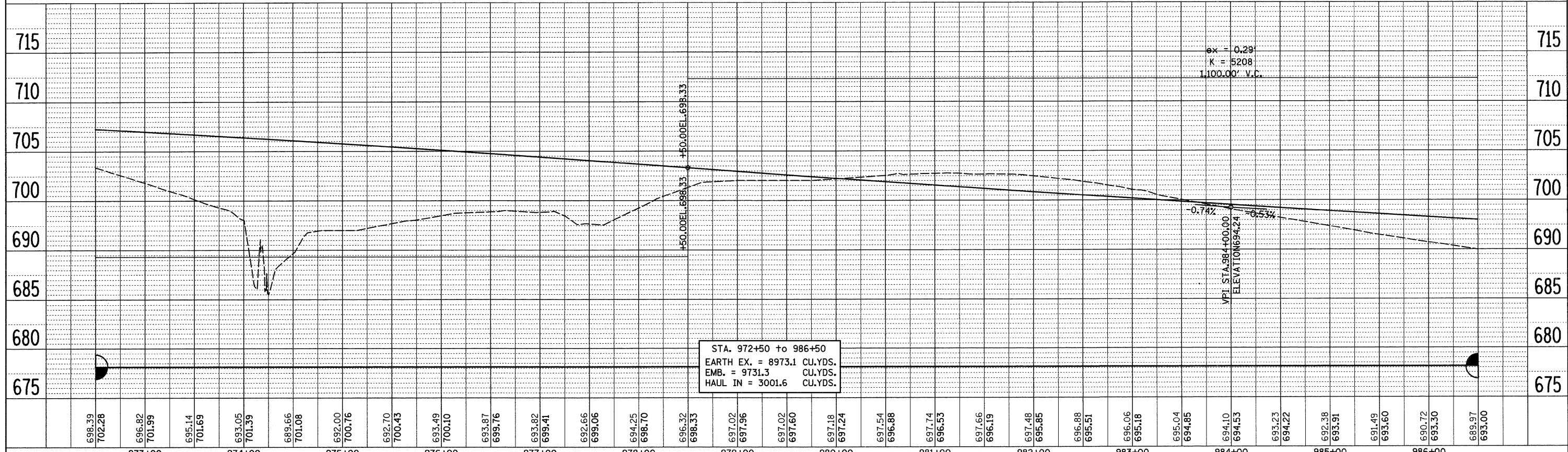
DATE	
BY	
PLAN	
SURVEYED	
ALIGNED	
CHECKED	
RT. OF WAY CHECKED	
NO. OF	
NOTE BOOK	
NO.	
CADD FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF	
NOTE BOOK	
NO.	
STRUCTURE NOTATIONS	



IL RTE 2  
 PROP. CURVE 71220  
 PI STA. = 975+33.17  
 $\Delta = 29^\circ 11' 50''$  (RT)  
 $D = 3^\circ 49' 11''$   
 $R = 1,500.00'$   
 $T = 390.68'$   
 $L = 764.38'$   
 $E = 50.04'$   
 $e = 5.4\%$   
 P.C. T.R. = 59'  
 P.C. S.E. RUN = 210'  
 P.T. S.E. RUN = 300' ROTATION AT STA. 981+05.87  
 P.C. STA. = 971+42.49  
 P.T. STA. = 979+06.87

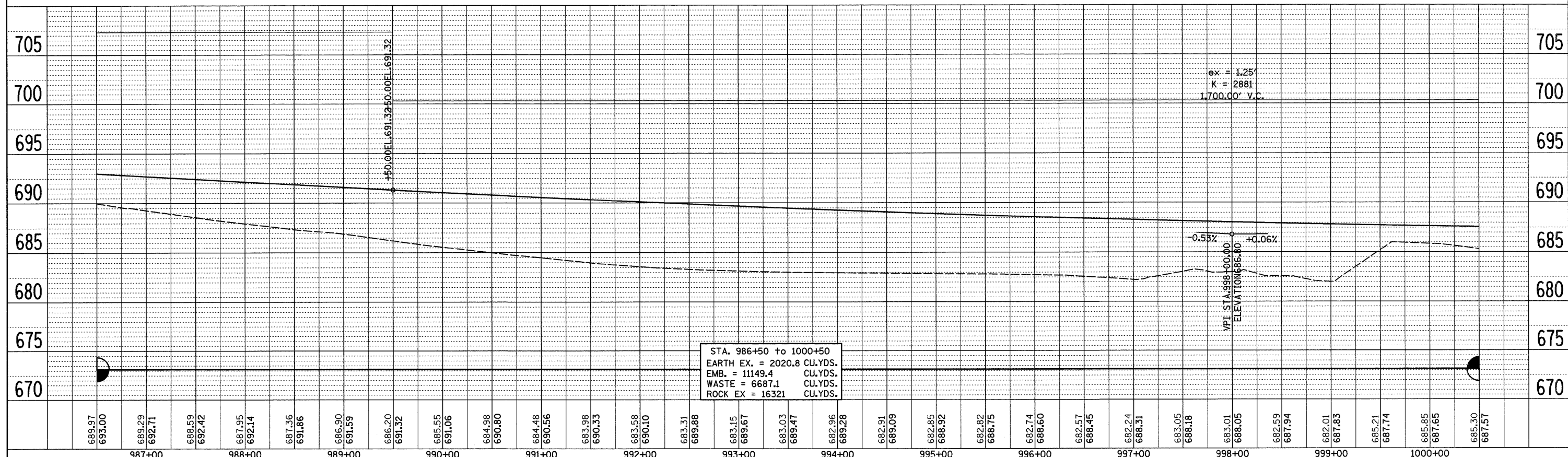
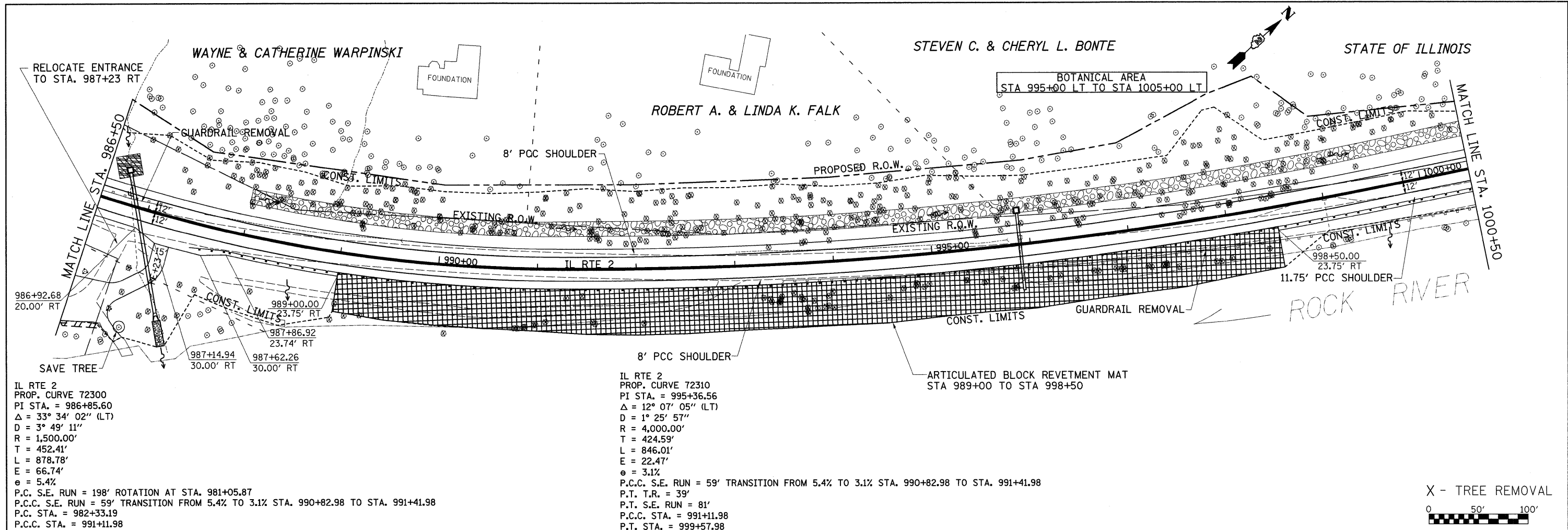
X - TREE REMOVAL



698.39	702.26	696.82	701.99	695.14	701.69	693.05	701.39	689.66	701.08	692.00	700.76	692.70	700.43	693.49	700.10	693.87	699.76	693.82	699.41	692.66	699.06	694.25	698.70	696.32	698.33	697.02	697.96	697.02	697.60	697.18	697.24	697.54	696.88	697.74	696.53	697.66	696.19	697.48	695.85	696.88	695.51	696.06	695.18	695.04	694.85	694.10	694.53	693.23	694.22	692.38	693.91	691.49	693.60	690.72	693.30	689.97	693.00
973+00		974+00		975+00		976+00		977+00		978+00		979+00		980+00		981+00		982+00		983+00		984+00		985+00		986+00																															
FILE NAME =		USER NAME = cushmanbw		DESIGNED -		REVISED -		STATE OF ILLINOIS		DEPARTMENT OF TRANSPORTATION		IL 2		F.A.P. RTE. 742		SECTION 37R-4		COUNTY OGLE		TOTAL SHEETS 867		SHEET NO. 110		CONTRACT NO. 64E17																																	
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PLOT DATE = Wed Apr 07 11:41:43 2010		DATE -		CHECKED -		REVISED -		SCALE:		SHEET NO. OF SHEETS		STA. TO STA.		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT																																									

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NOTE BOOK	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NOTE BOOK	
	NO.	

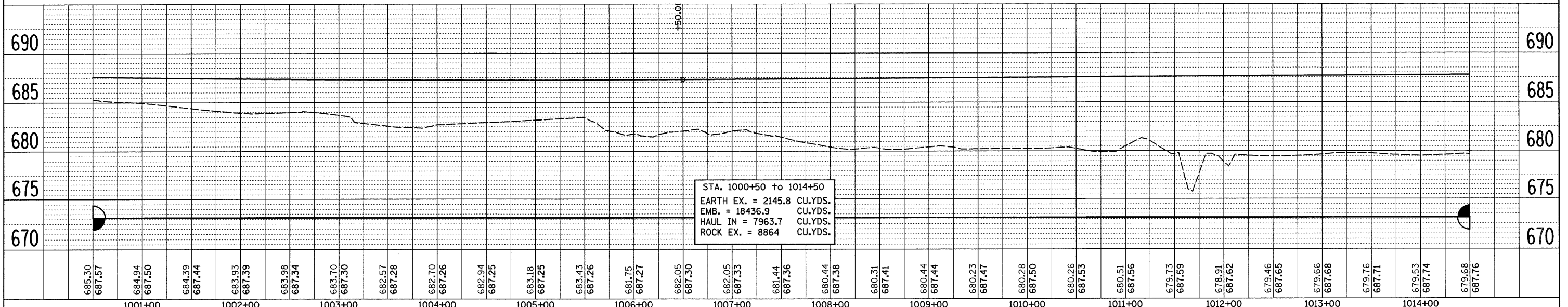
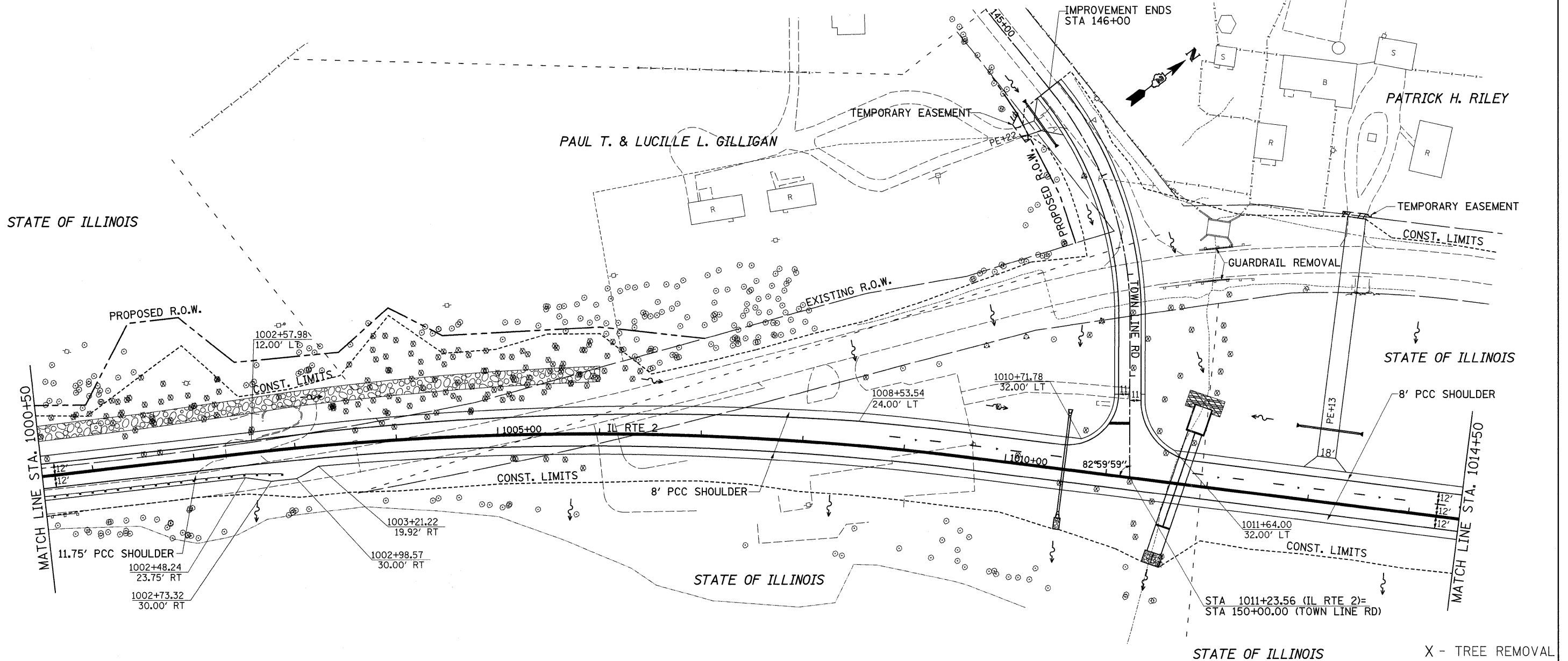


FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 2	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 111
CONTRACT NO. 64E17	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	
BY	
REVIEWED	
PLANNED	
ALIGNED	
CHECKED	
NO. /	
NOTE BOOK	
NO. /	
CADD FILE NAME	
NO. /	

DATE	
BY	
REVIEWED	
PLANNED	
CHECKED	
NO. /	
NOTE BOOK	
NO. /	
STRUCTURE NOTATIONS	
NO. /	

STATE OF ILLINOIS



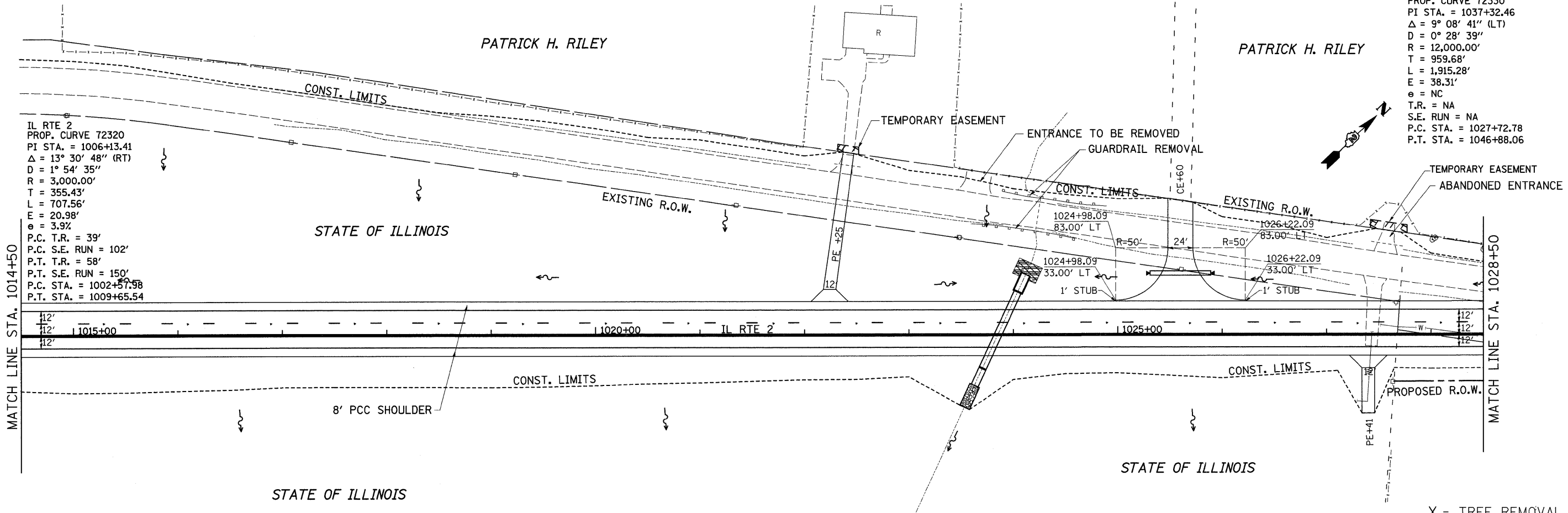
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c:\pw_work\PWIDOT\GRANTPM\dms31213\066608\p1n2.dgn	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -			742	37R-4	OGLE	867	112
PLOT DATE = Tue Mar 30 11:40:37 2010	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64E17				
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
NOTED	
REVISIONS	
NO.	

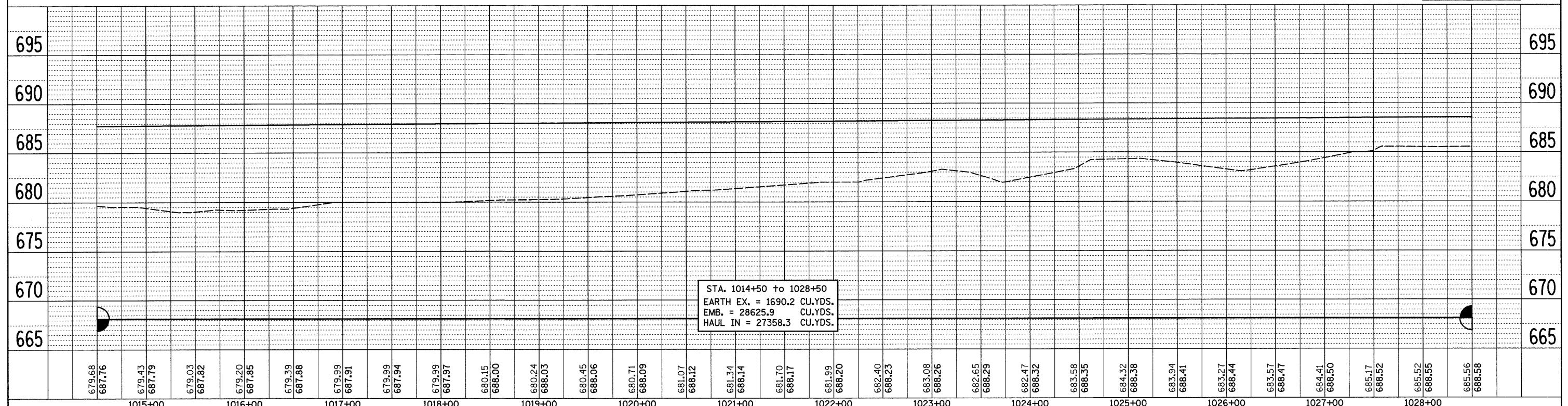
DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
NOTED	
REVISIONS	
NO.	

IL RTE 2  
 PROP. CURVE 72330  
 PI STA. = 1037+32.46  
 $\Delta = 9^{\circ} 08' 41''$  (LT)  
 $D = 0^{\circ} 28' 39''$   
 $R = 12,000.00'$   
 $T = 959.68'$   
 $L = 1,915.28'$   
 $E = 38.31'$   
 $e = NC$   
 $T.R. = NA$   
 $S.E. RUN = NA$   
 $P.C. STA. = 1027+72.78$   
 $P.T. STA. = 1046+88.06$

IL RTE 2  
 PROP. CURVE 72320  
 PI STA. = 1006+13.41  
 $\Delta = 13^{\circ} 30' 48''$  (RT)  
 $D = 1^{\circ} 54' 35''$   
 $R = 3,000.00'$   
 $T = 355.43'$   
 $L = 707.56'$   
 $E = 20.98'$   
 $e = 3.9\%$   
 $P.C. T.R. = 39'$   
 $P.C. S.E. RUN = 102'$   
 $P.T. T.R. = 58'$   
 $P.T. S.E. RUN = 150'$   
 $P.C. STA. = 1002+57.98$   
 $P.T. STA. = 1009+65.54$



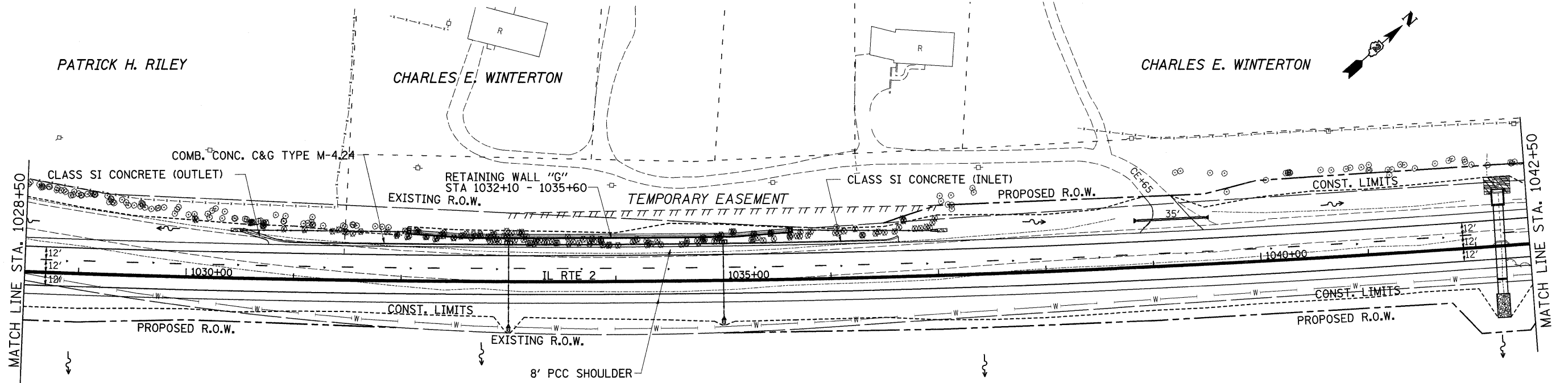
X - TREE REMOVAL  
 0 50' 100'



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 2</b>	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	F.A.P. RTE. NO. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 113
CONTRACT NO. 64E17	ILLINOIS FED. AID PROJECT												
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -											
PLOT DATE = Tue Mar 30 11:40:39 2010	DATE -	REVISED -											

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	REVISIONS		
	NO. OF WAY CHECKED		
	CADD FILE NAME		
	NO.		

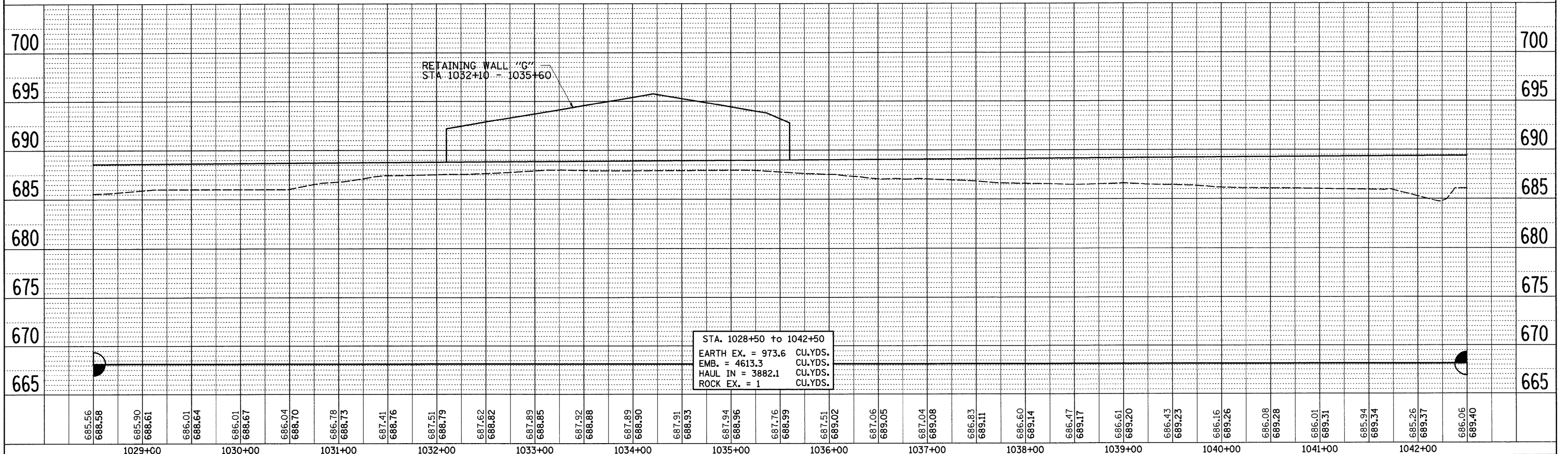
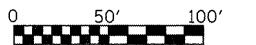
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	REVISIONS		
	NO. OF WAY CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		



CHARLES E. WINTERTON

CHARLES E. WINTERTON

X - TREE REMOVAL

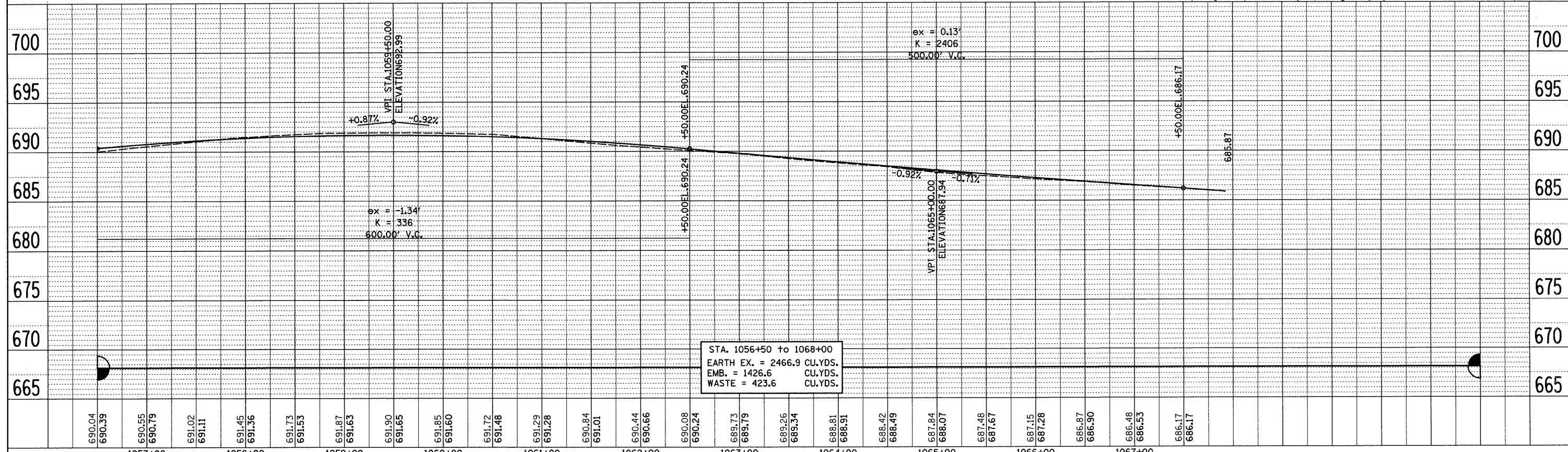
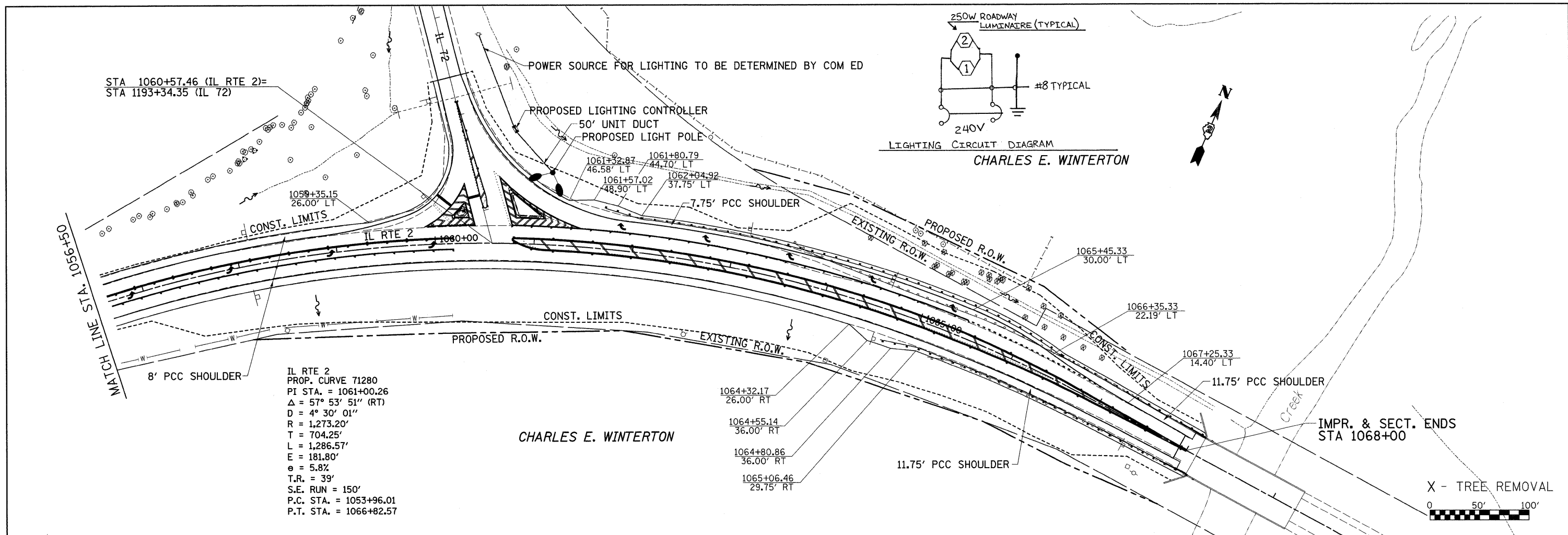


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 2</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pw\work\PWID01\GRANTPM\dms31213\d06600p1n2.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	114
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17				
PLOT DATE = Tue Mar 30 11:40:40 2010		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT



PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	RT. OF WAY CHECKED	
	NO. _____	
	CADD FILE NAME	
	NO. _____	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	
	CADD FILE NAME	
	NO. _____	



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
ca:\pwwork\FWID01\GRANTPM\dms31213\d06608p1n2.dgn		DRAWN -	REVISED -
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Tue Mar 30 11:48:44 2010		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	116
CONTRACT NO. 64E17			ILLINOIS FED. AID PROJECT	

SCALE: SHEET NO. OF SHEETS STA. TO STA.

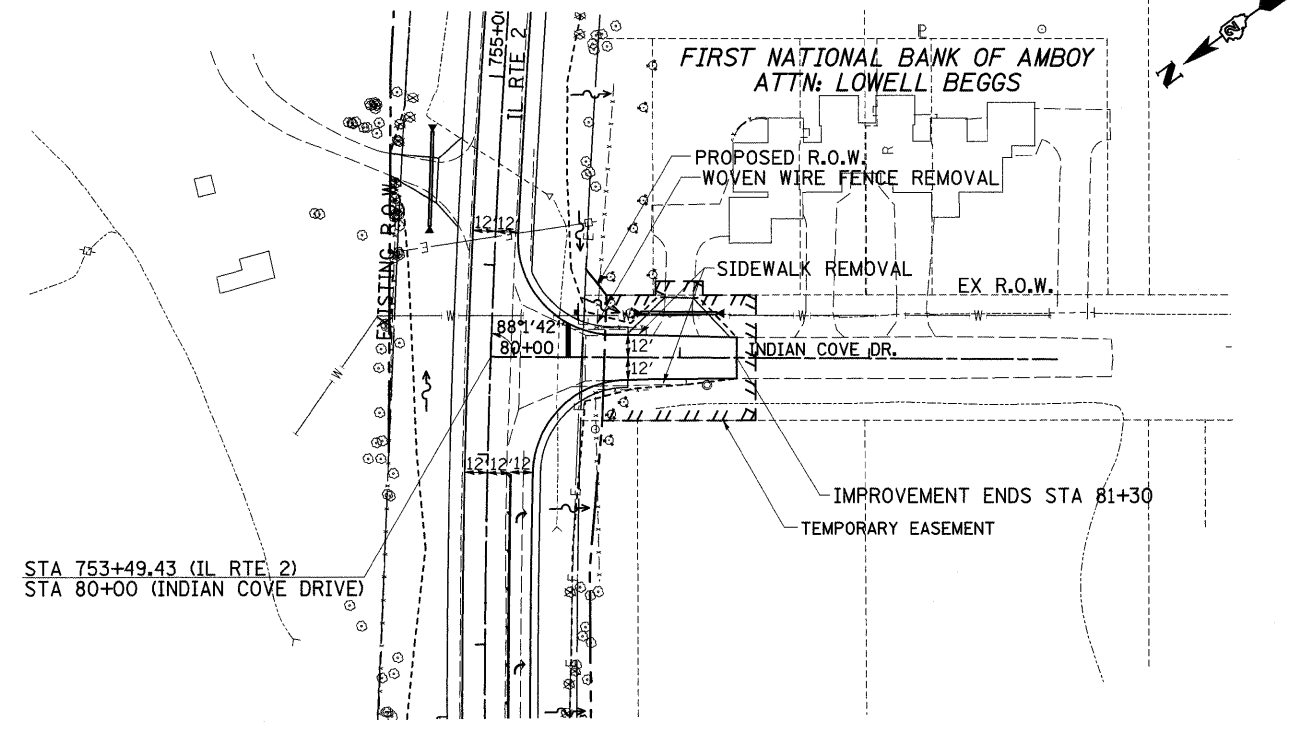
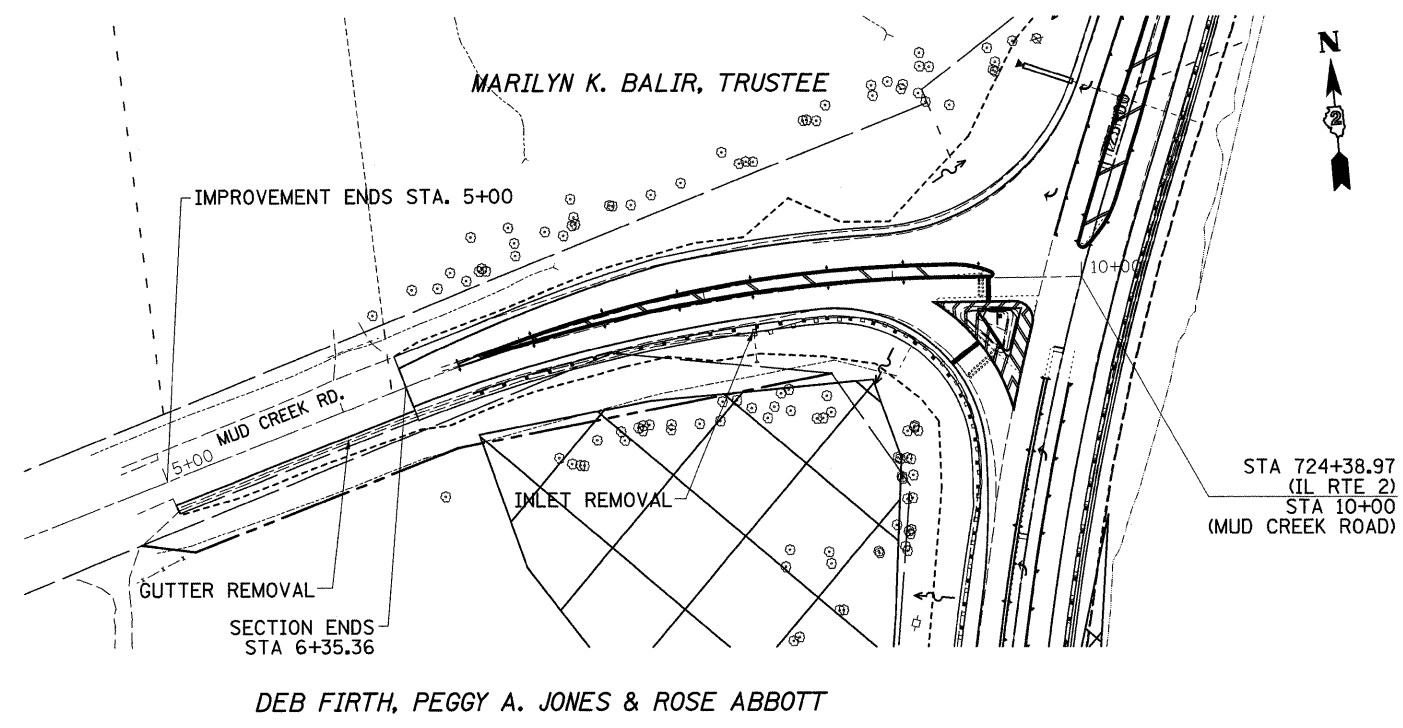


# MUD CREEK RD.

# INDIAN COVE DR.

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATION	
	NO.	

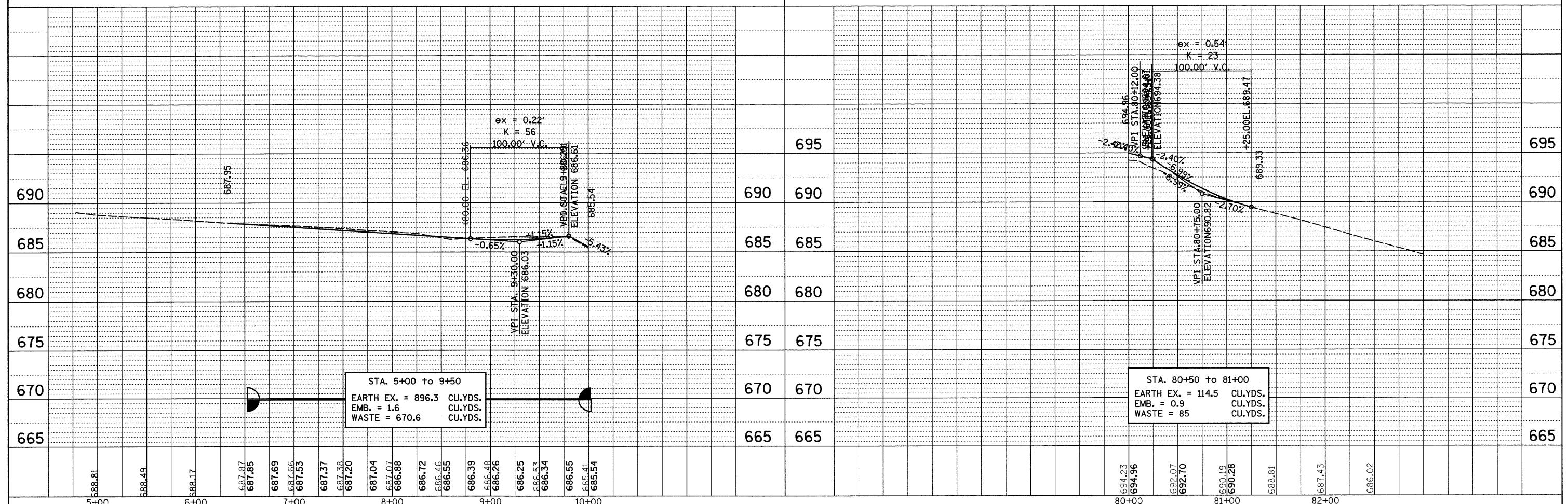
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATION	
	NO.	



DEB FIRTH, PEGGY A. JONES & ROSE ABBOTT

FIRST NATIONAL BANK OF AMBOY  
ATTN: LOWELL BEGGS X - TREE REMOVAL

X - TREE REMOVAL



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
ct:\pwwork\p\WIDOT\GRANTPM\dms31213\d06606	pln3.dgn	DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Tue Mar 30 11:36:57 2010	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

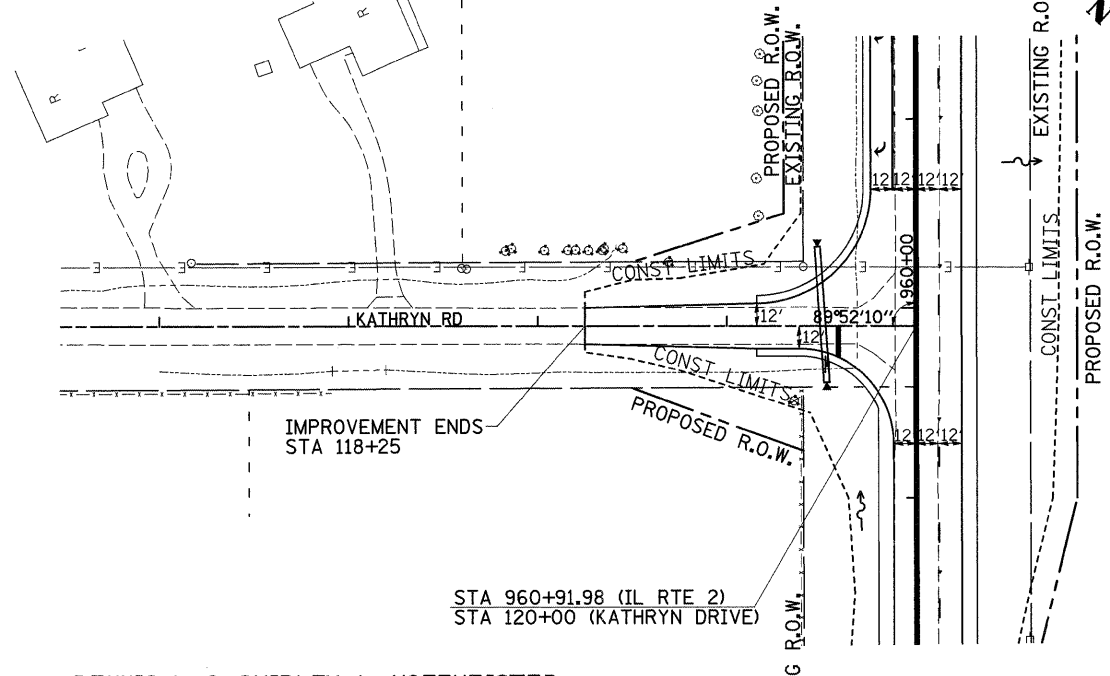
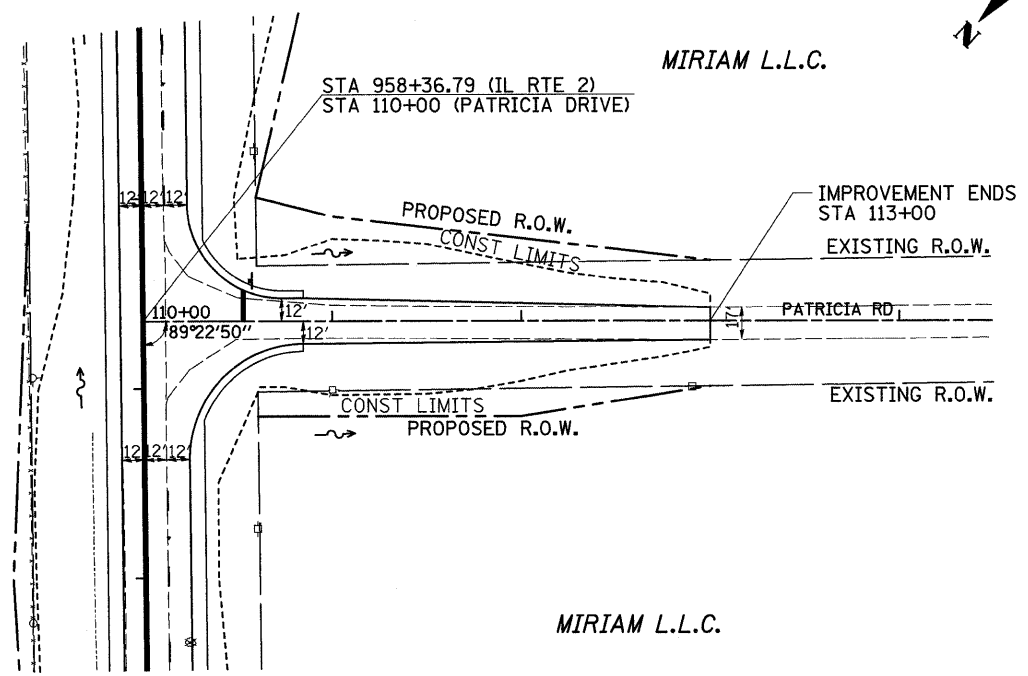
MUDD CREEK RD./INDIAN COVE DR.

F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 117
SCALE:		SHEET NO. OF SHEETS		CONTRACT NO. 64E17
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



# PATRICIA RD.

# KATHRYN RD.

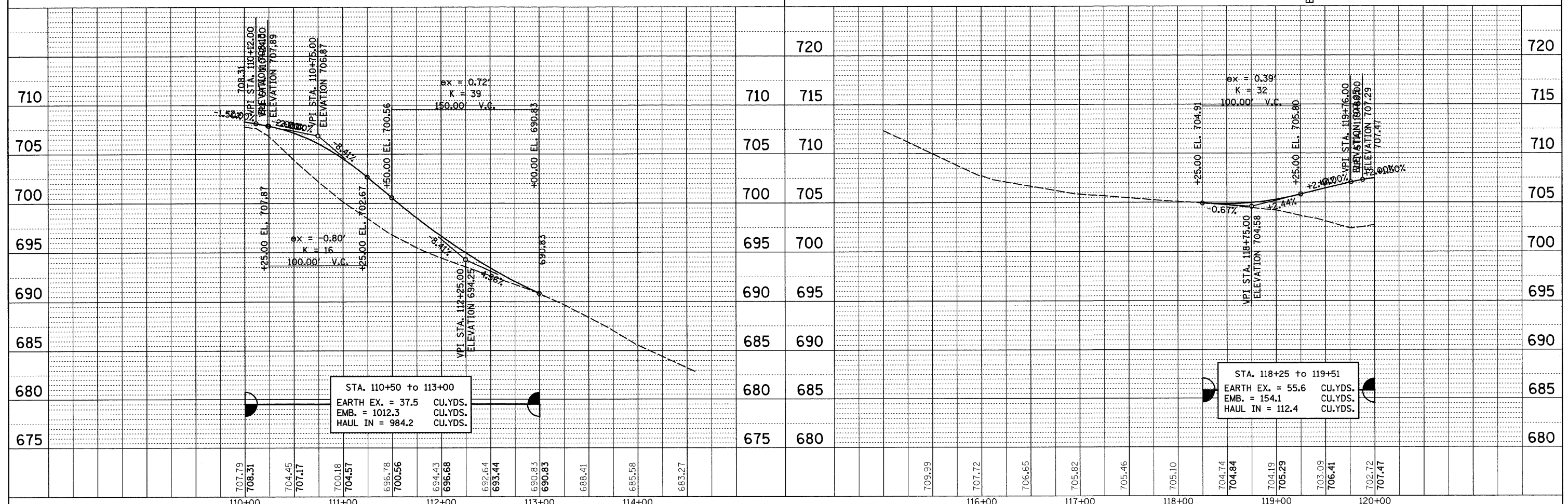


X - TREE REMOVAL

X - TREE REMOVAL

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	



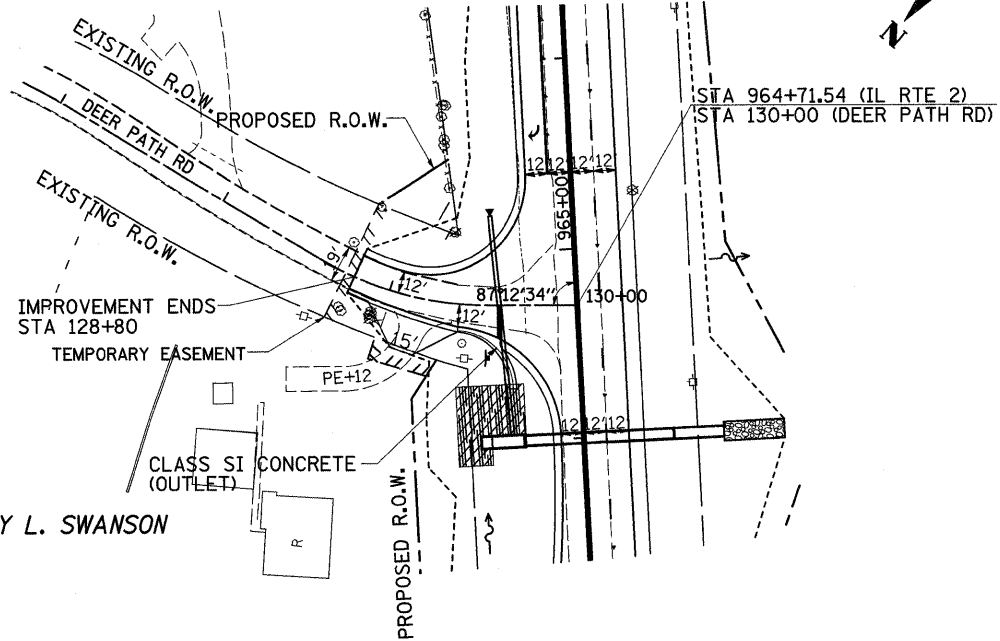
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PATRICIA RD./KATHRYN RD.</b>			F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 119
CONTRACT NO. 64E17	SCALE: SHEET NO. OF SHEETS STA. TO STA.	CHECKED -	REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT						
		DATE -	REVISED -									

IL RTE 2  
 PROP. CURVE 72270  
 PI STA. = 129+08.01  
 $\Delta = 30^\circ 55' 44''$  (LT)  
 $D = 33^\circ 01' 47''$   
 $R = 173.47'$   
 $T = 47.99'$   
 $L = 93.64'$   
 $E = 6.52'$   
 $e = \text{NONE}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 128+60.02  
 P.T. STA. = 129+53.66

# DEER PATH RD.

STEVEN & SUE E. RAPP

IL RTE 2  
 PROP. CURVE 72260  
 PI STA. = 125+57.53  
 $\Delta = 55^\circ 58' 18''$  (RT)  
 $D = 17^\circ 41' 27''$   
 $R = 323.87'$   
 $T = 172.10'$   
 $L = 316.39'$   
 $E = 42.89'$   
 $e = \text{NONE}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 123+85.42  
 P.T. STA. = 127+01.81



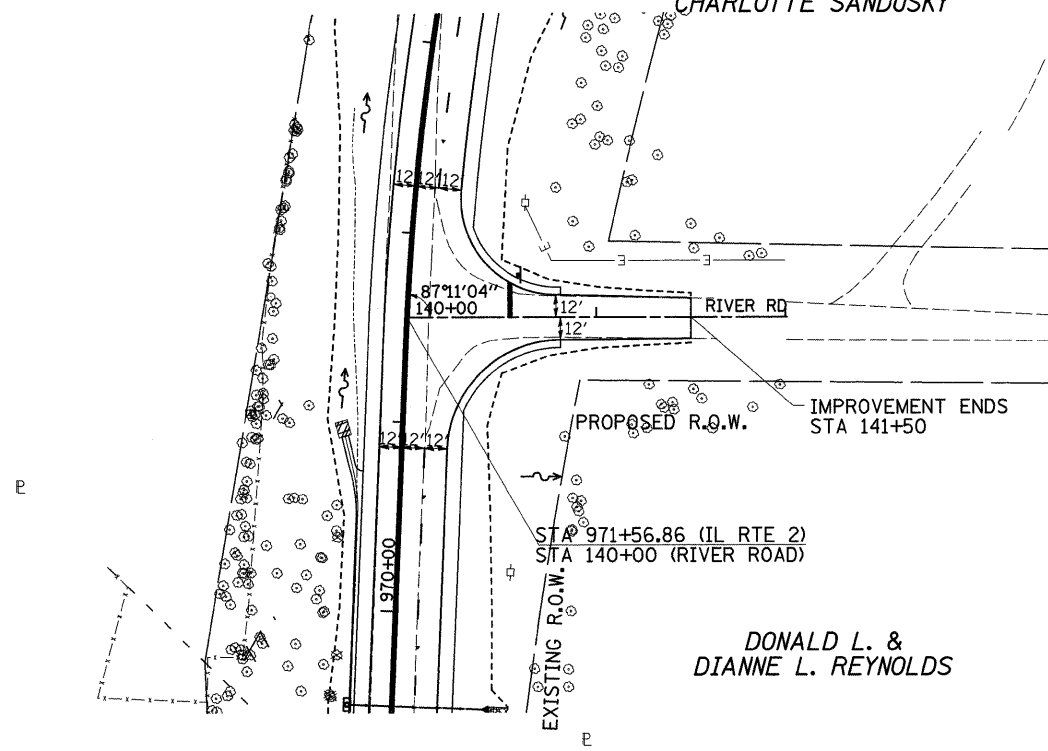
MARK R. & TRUDY L. SWANSON

DAVID L. & K. A. JOHNSON

X - TREE REMOVAL

# RIVER RD.

ARCHIE R. & CHARLOTTE SANDUSKY

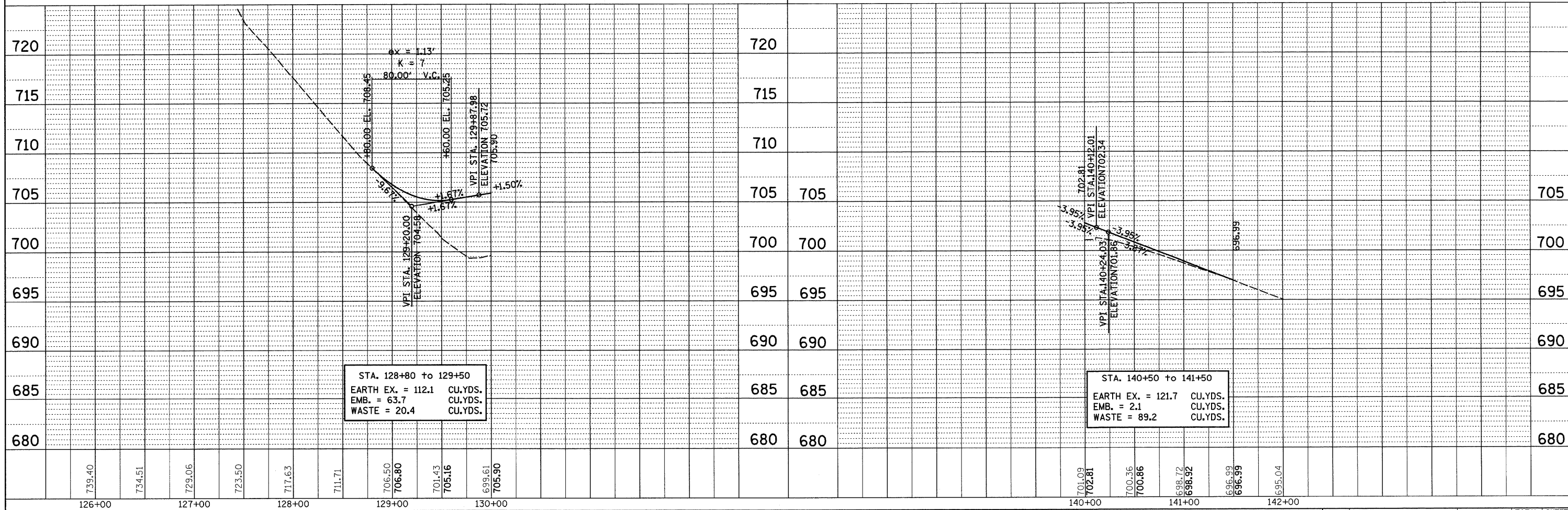


DONALD L. & DIANNE L. REYNOLDS

X - TREE REMOVAL

PLAN	DATE
BY	
NO.	
NO.	
NO.	
NO.	

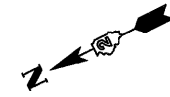
PROFILE	DATE
BY	
NO.	
NO.	
NO.	
NO.	



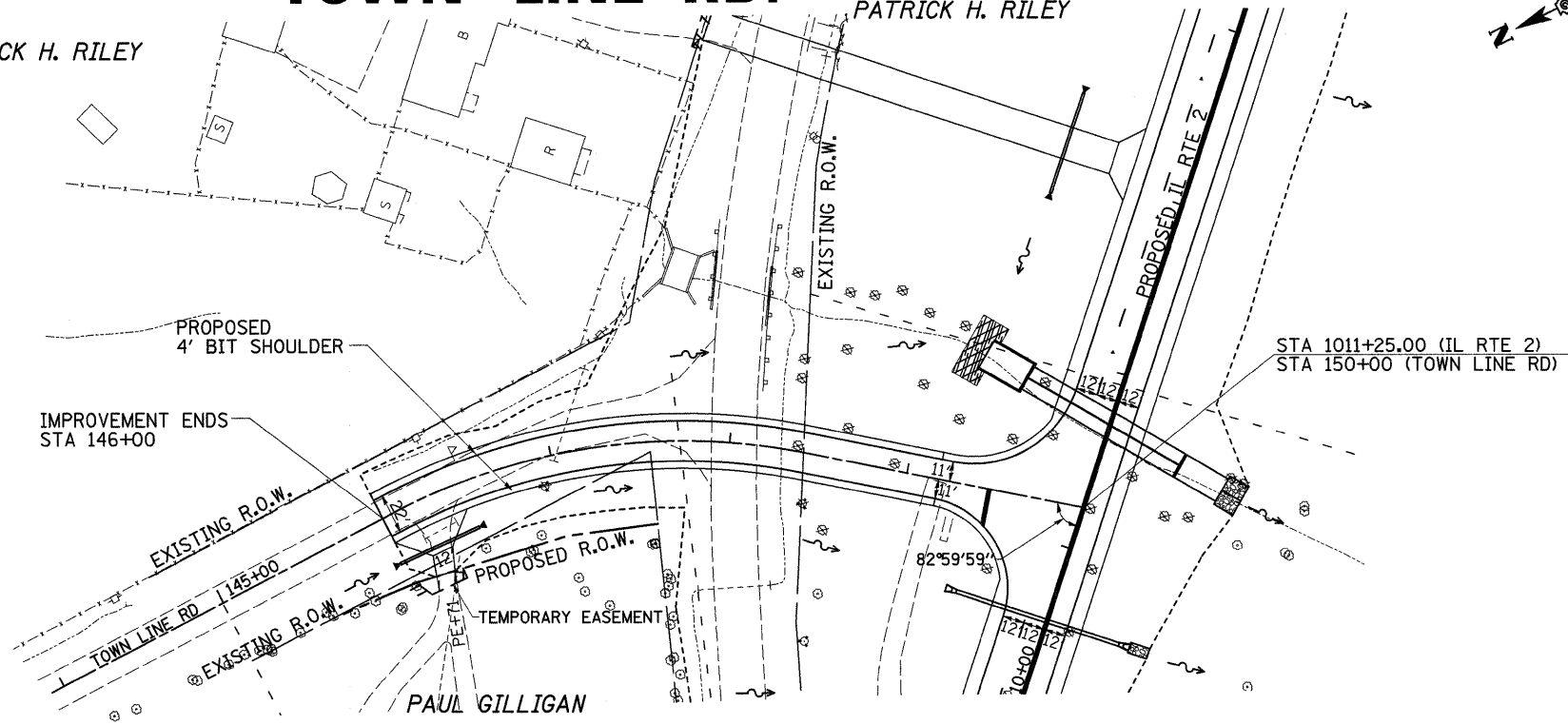
# TOWN LINE RD.

PATRICK H. RILEY

PATRICK H. RILEY



IL RTE 2  
 PROP. CURVE 72280  
 PI STA. = 147+28.28  
 $\Delta = 38^\circ 42' 11''$  (RT)  
 $D = 16^\circ 22' 13''$   
 $R = 350.00'$   
 $T = 122.92'$   
 $L = 236.42'$   
 $E = 20.96'$   
 $e = 3.9\%$   
 $T.R. = 26'$   
 $S.E. RUN = 66'$   
 $P.C. STA. = 146+05.36$   
 $P.T. STA. = 148+41.78$   
 30 MPH DESIGN SPEED

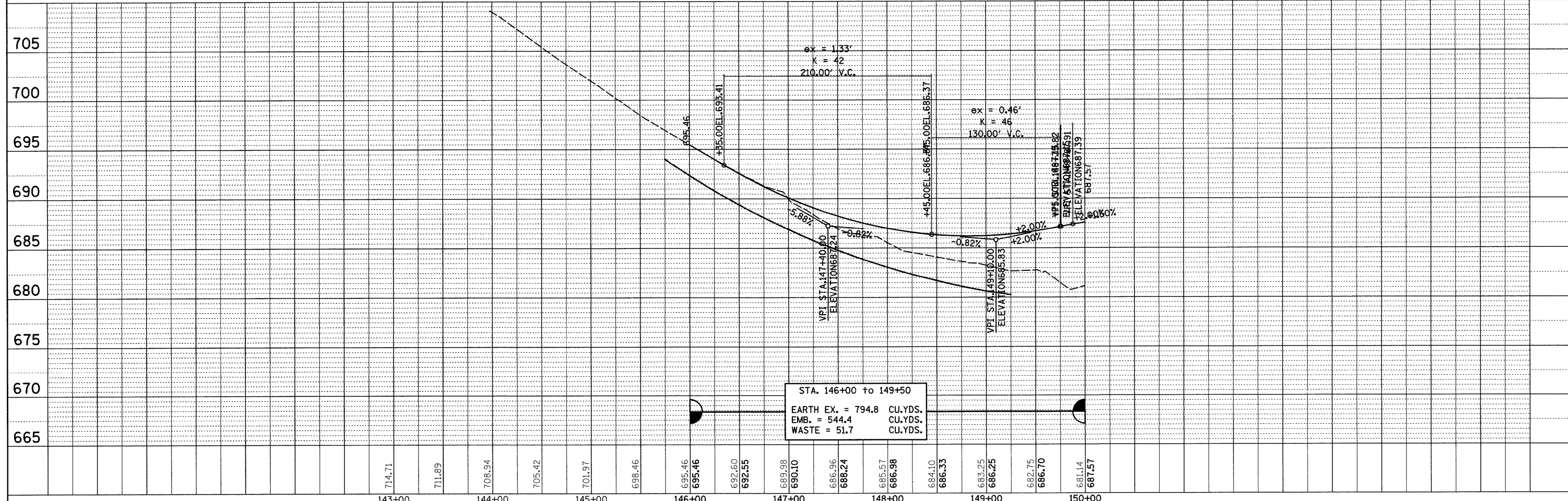


PAUL GILLIGAN

X - TREE REMOVAL

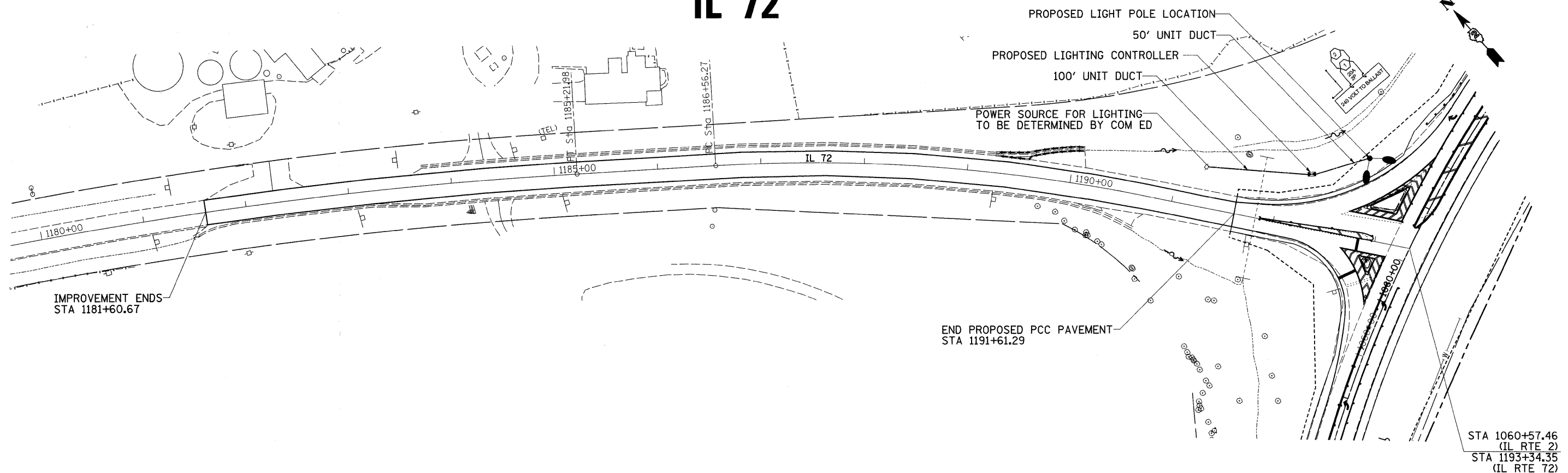
PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	RT. OF WAY CHECKED	
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PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	RT. OF WAY CHECKED	
	NO. CAD FILE NAME	



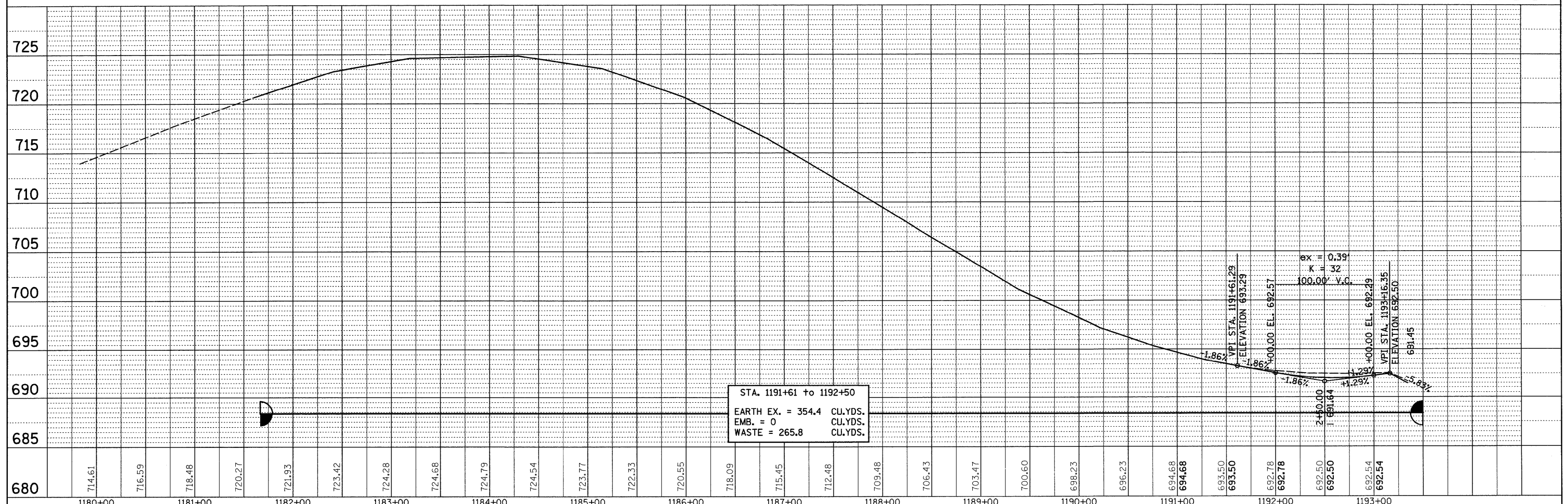
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TOWN LINE RD.</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwid01\GRANTPM\dms31213\026686\plan3.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	121
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17				
PLOT DATE = Tue Mar 30 11:37:04 2010		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

# IL 72



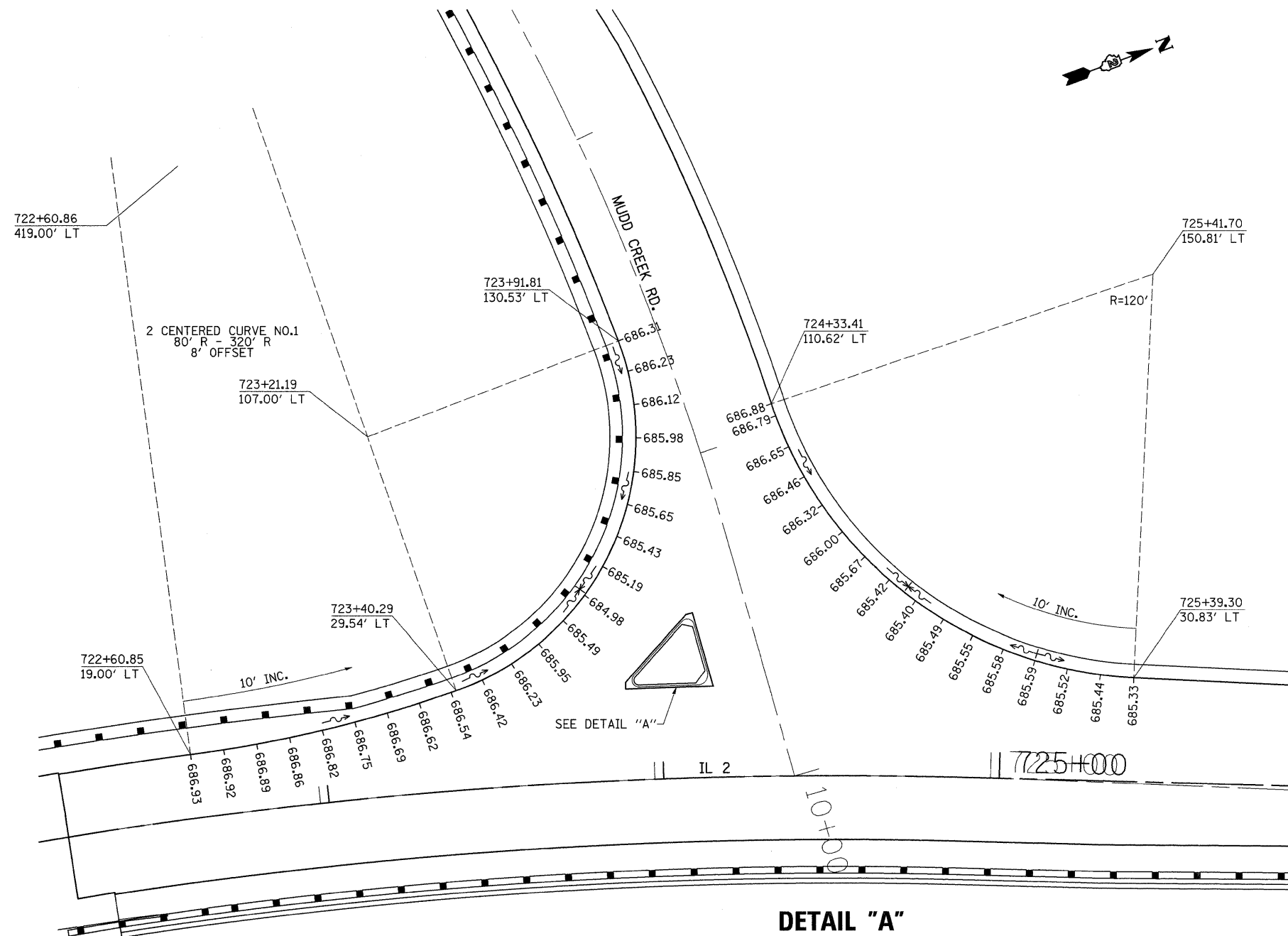
PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NOTE BOOK NO.	
	STRUCTURE NOTATIONS CHK'D	

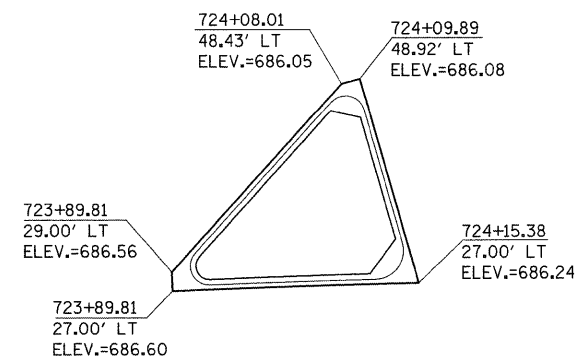


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 72</b>	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 122	
ca\pwwork\pwwidot\GRANTPM\dms31213\1186688\p1n3.dgn	PLLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64E17
	PLLOT DATE = Tue Mar 30 11:37:05 2010	CHECKED -	REVISED -								
		DATE -	REVISED -								

# PAVEMENT ELEVATIONS

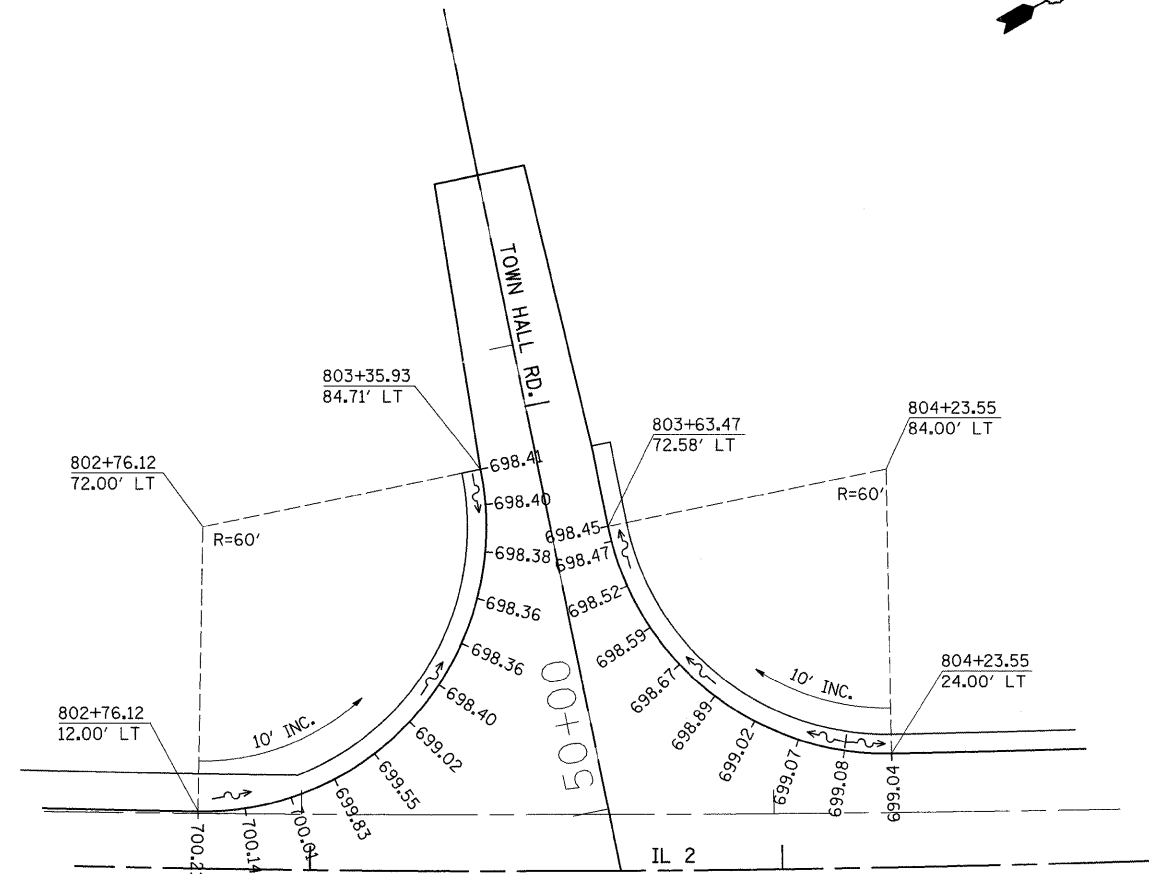
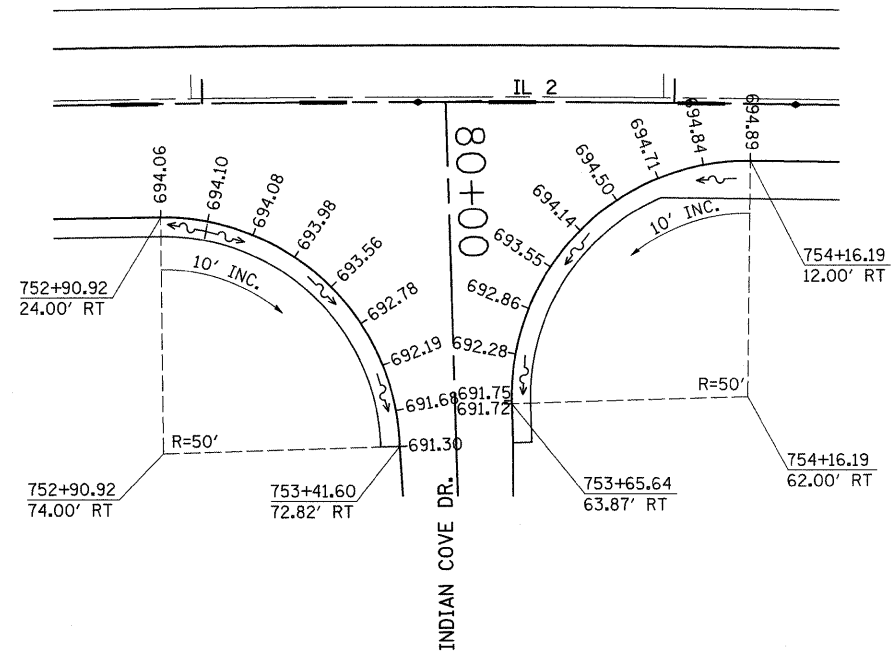
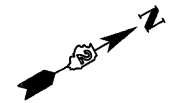
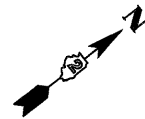


**DETAIL "A"**



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT ELEVATIONS</b>	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\VPWIDOT\GRANTPM\dms31213\j06608e1.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	123	
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17					
PLOT DATE = Tue Mar 30 11:32:20 2010		DATE -	REVISED -			SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

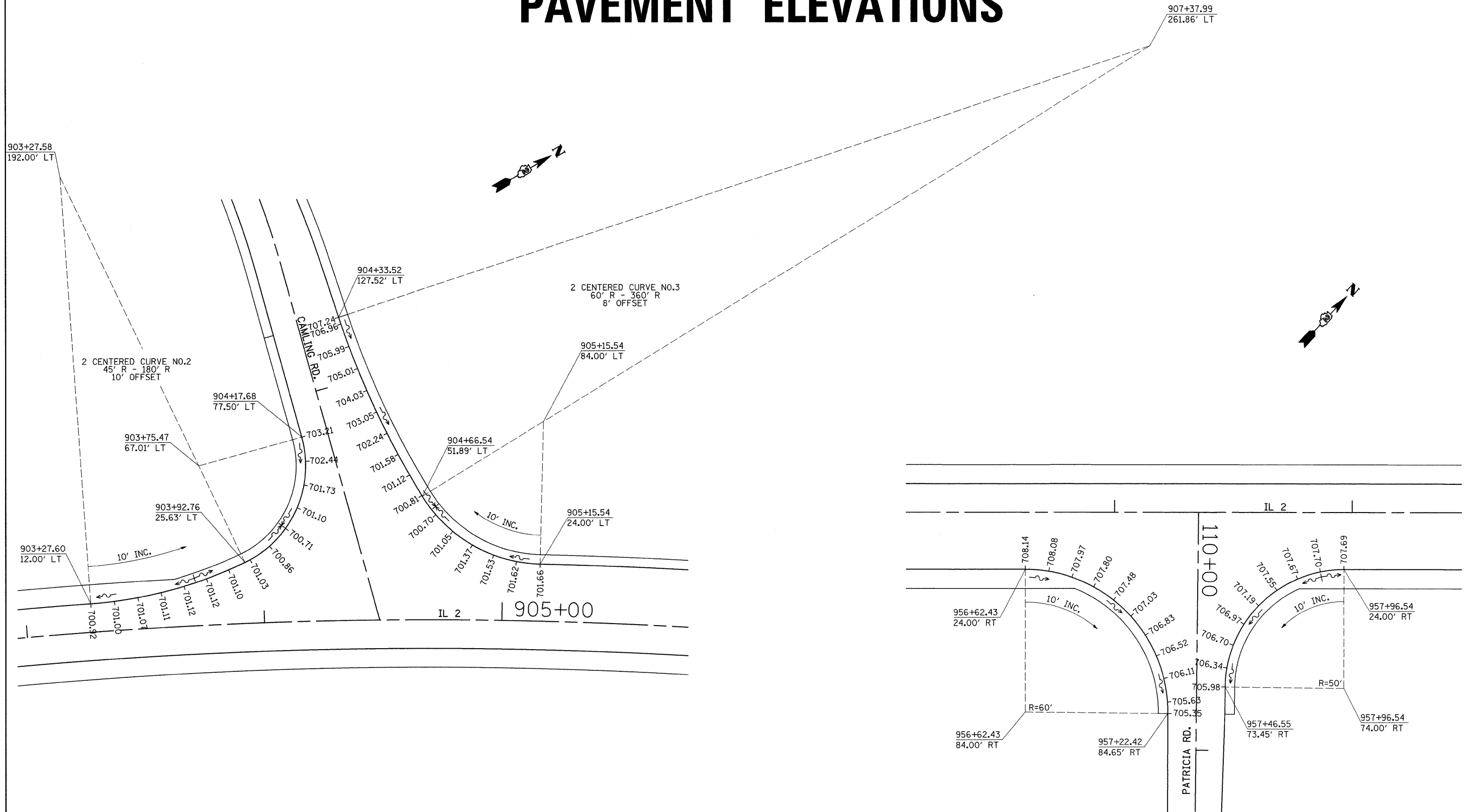
# PAVEMENT ELEVATIONS



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT ELEVATIONS</b>	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 124	
c:\pwork\pwidot\GRANTPM\dms31213\d06620e1.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
	PLOT DATE = Tue Mar 30 11:32:21 2010	CHECKED -	REVISED -								CONTRACT NO. 64E17
		DATE -	REVISED -								

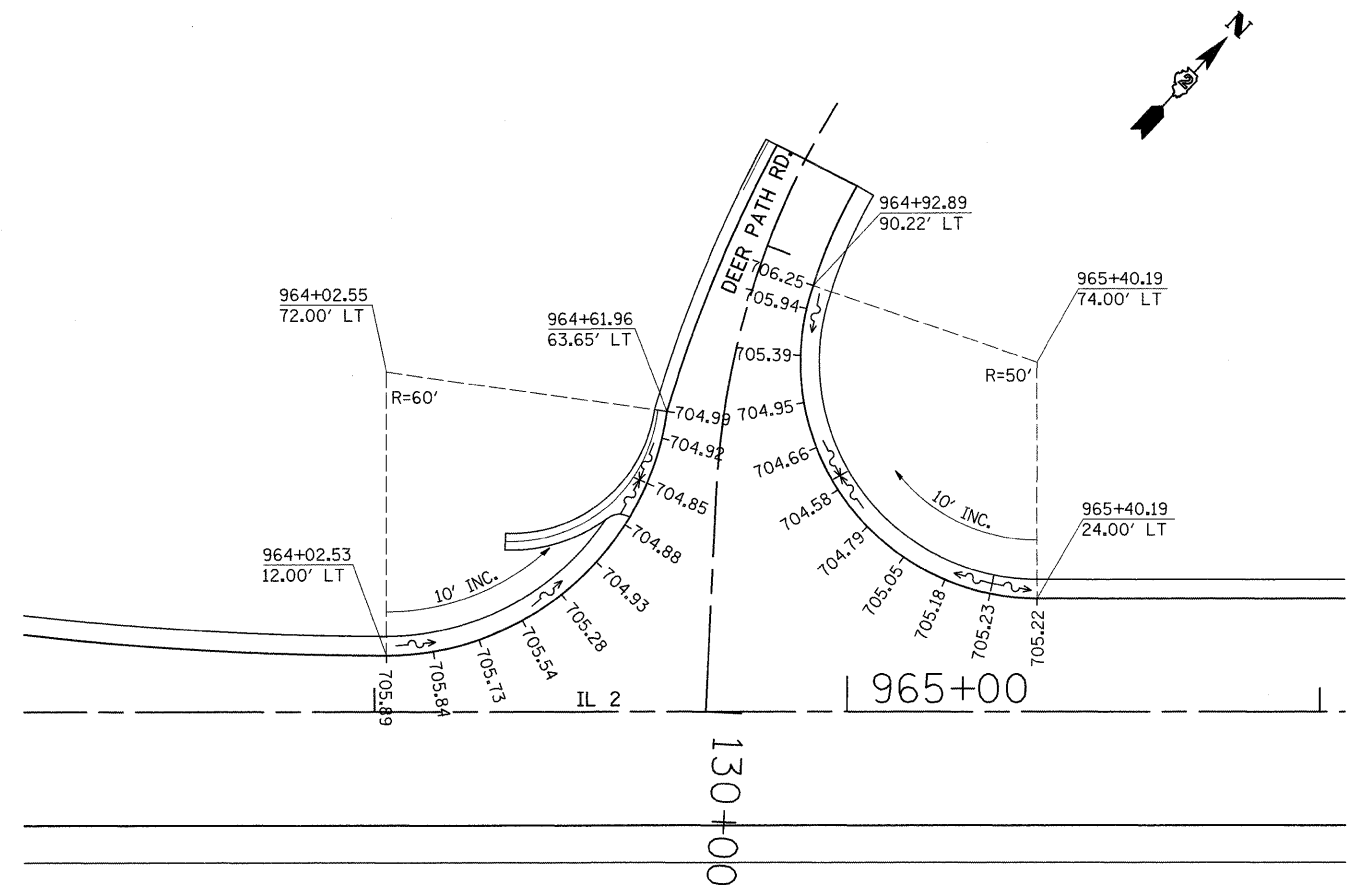
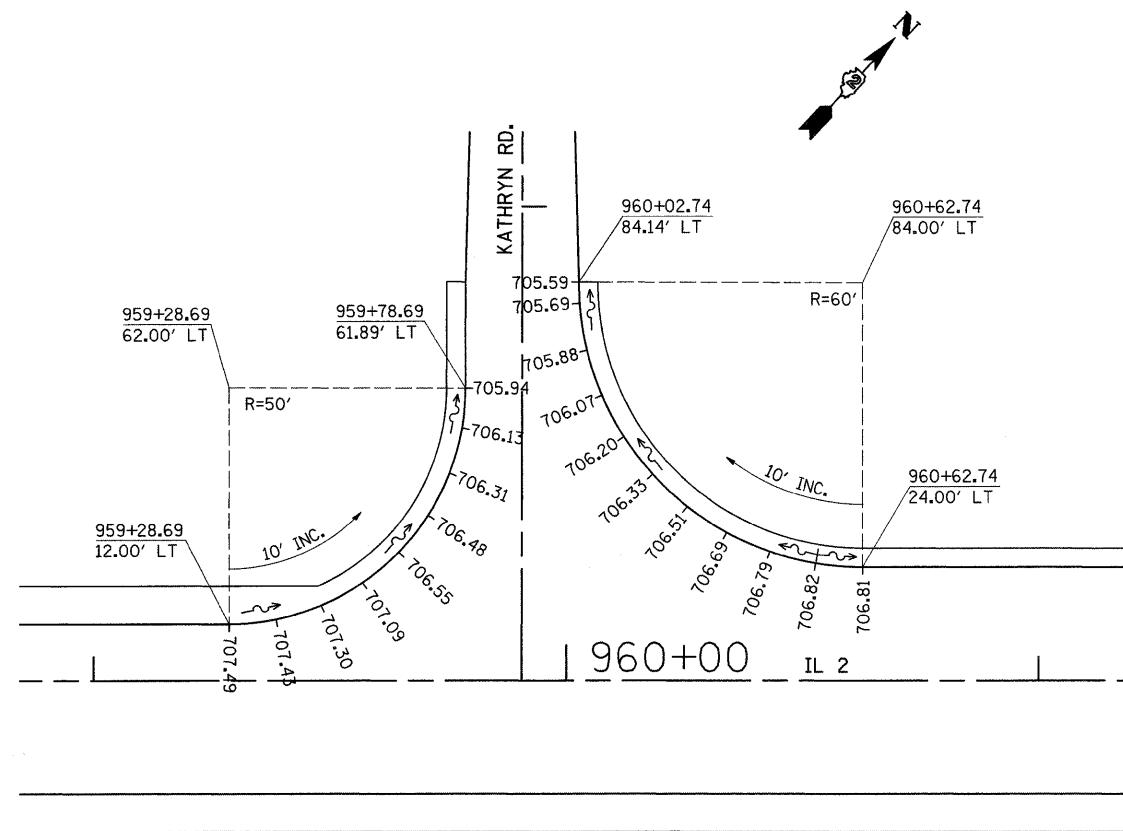


# PAVEMENT ELEVATIONS



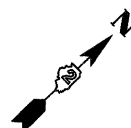
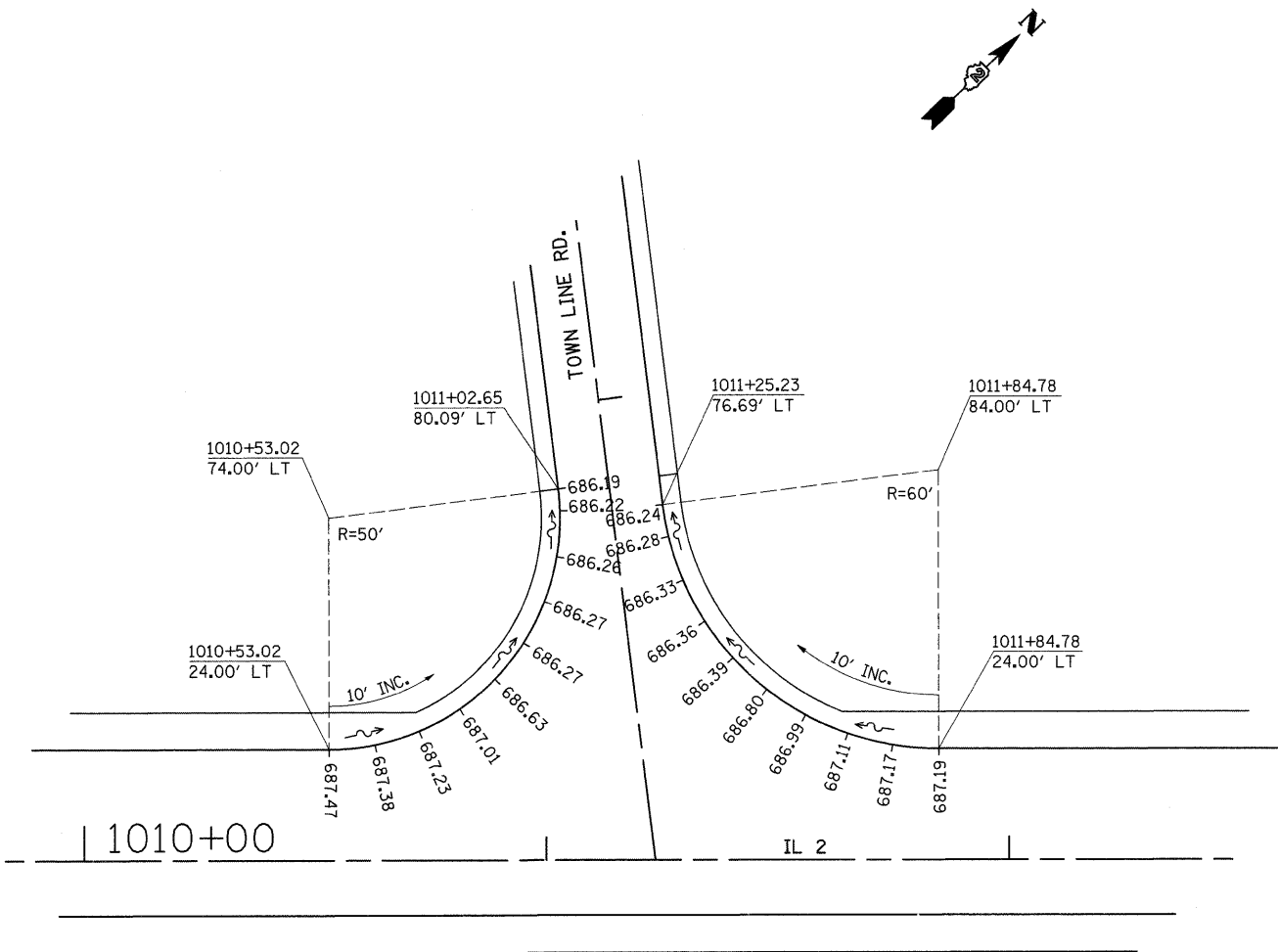
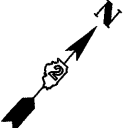
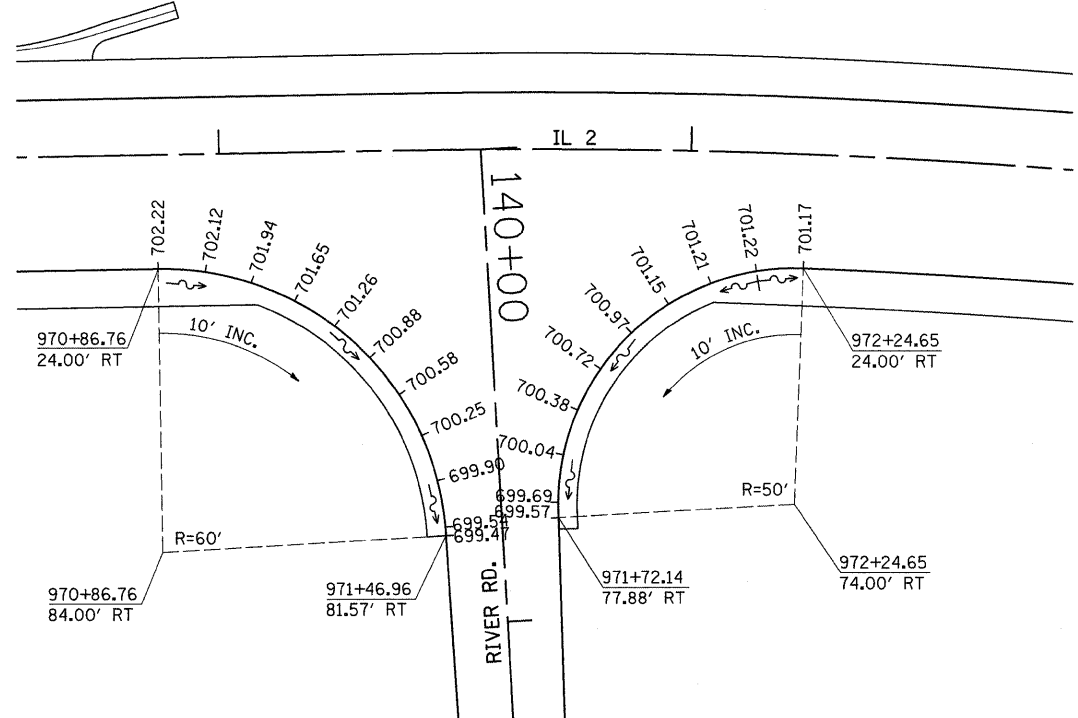
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT ELEVATIONS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
os:\pwork\VPWIDOT\GRANTPM\dms31213\d06628e1.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			742	37R-4	OGLE	867	125
PLOT DATE = Tue Mar 30 11:32:21 2010	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64E17				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.			

# PAVEMENT ELEVATIONS



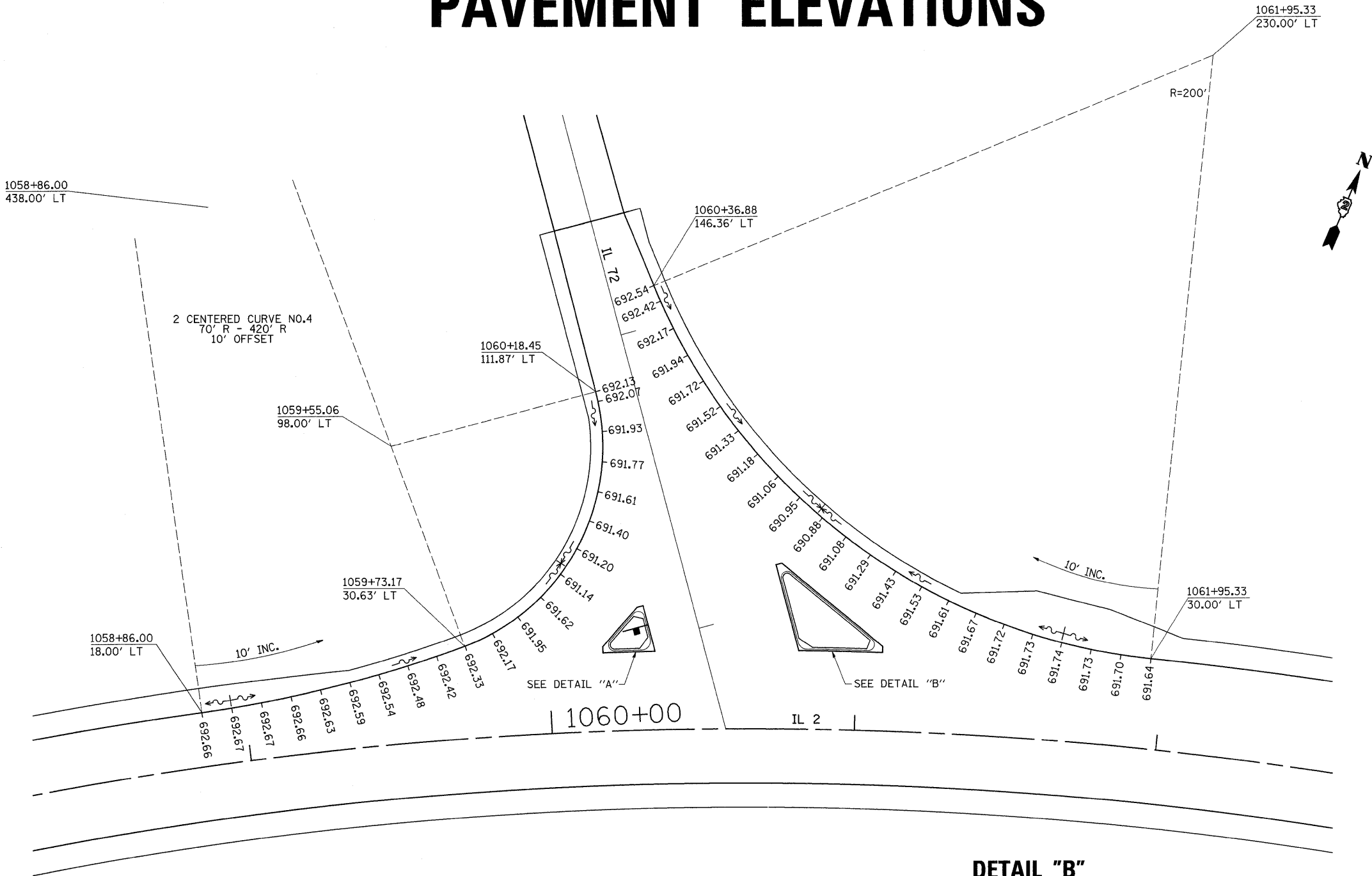
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et\pwork\pwidot\GRANTPM\dms31213\d06608eL.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -					742	3TR-4	OGLE	867	126
	PLOT DATE = Tue Mar 30 11:32:21 2010	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 64E17		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -									

# PAVEMENT ELEVATIONS

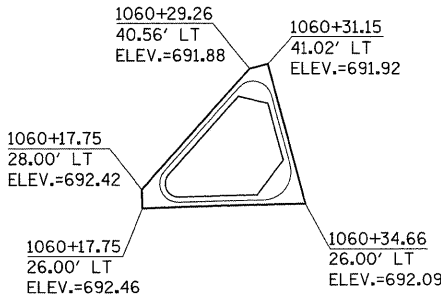


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT ELEVATIONS</b>	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\PMIDOT\GRANTPM\dms31213\066808e1.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	127	
	PLOT SCALE = 20,0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 64E17					
	PLOT DATE = Tue Mar 30 11:32:22 2010	DATE -	REVISED -			SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

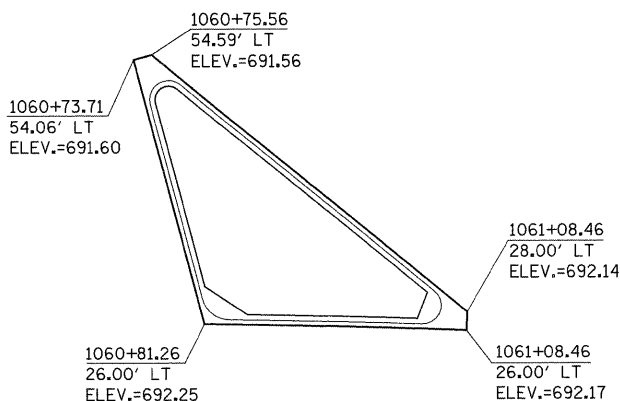
# PAVEMENT ELEVATIONS



**DETAIL "A"**

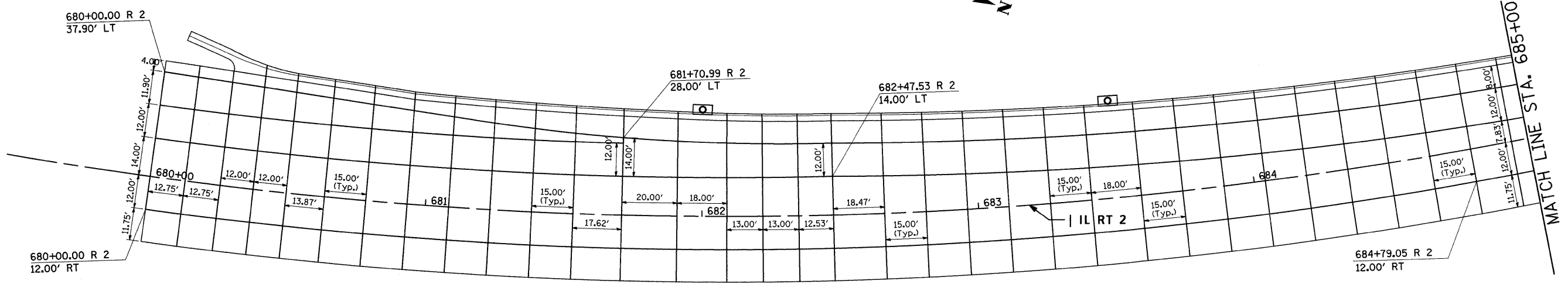


**DETAIL "B"**

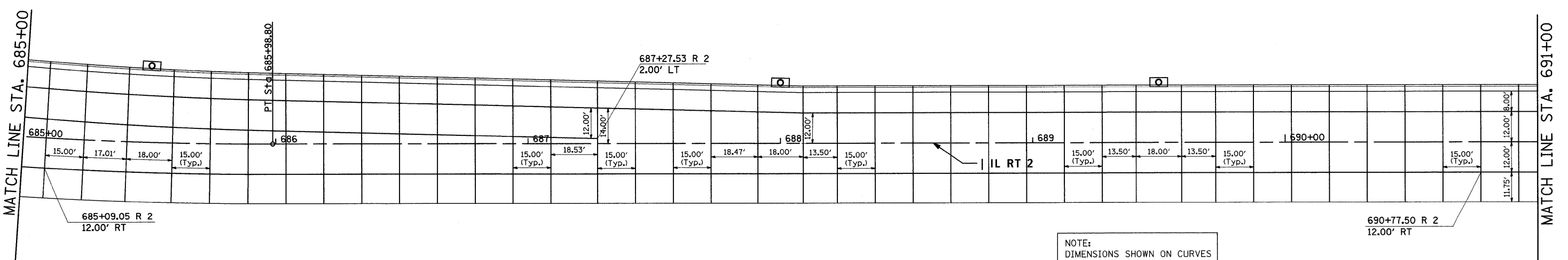
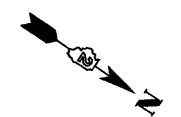


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT ELEVATIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwork\PM\DOT\GRANTPM\dms31213\d066828e1.dgn	DRAWN -	REVISED -	742					37R-4	OGLE	867	128	
PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 64E17									
PLOT DATE = Tue Mar 30 11:32:23 2010	DATE -	REVISED -	FED. ROAD DIST. NO.					ILLINOIS	FED. AID PROJECT			

# PAVEMENT JOINTING



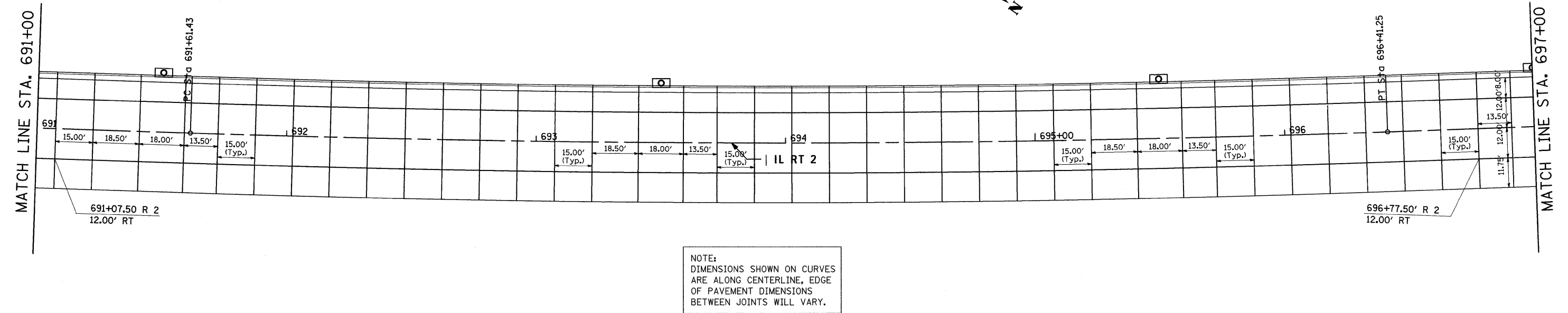
NOTE:  
DIMENSIONS SHOWN ON CURVES  
ARE ALONG CENTERLINE, EDGE  
OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.



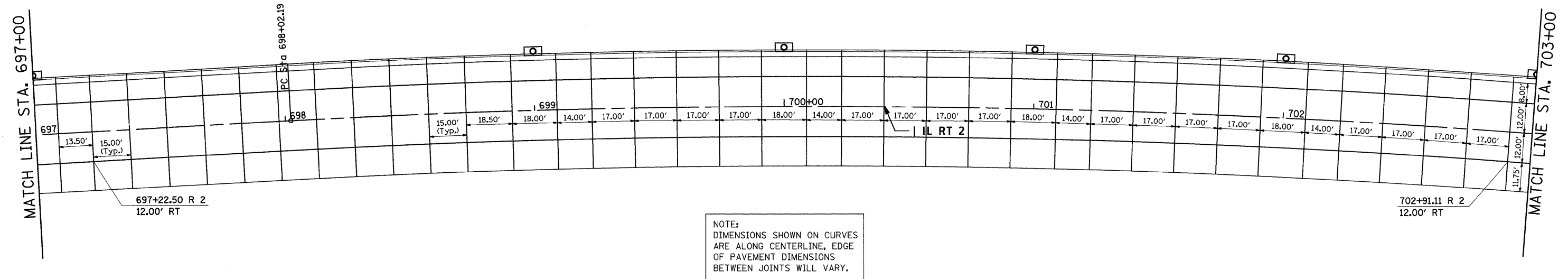
NOTE:  
DIMENSIONS SHOWN ON CURVES  
ARE ALONG CENTERLINE, EDGE  
OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwwork\p\WIDOT\GRANTPM\dms31213\pav	Joint_Sheets.dgn	DRAWN -	REVISED -			742	37R-4	OGLE	867	129
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SCALE:						SHEET NO. OF SHEETS STA. TO STA.				

# PAVEMENT JOINTING



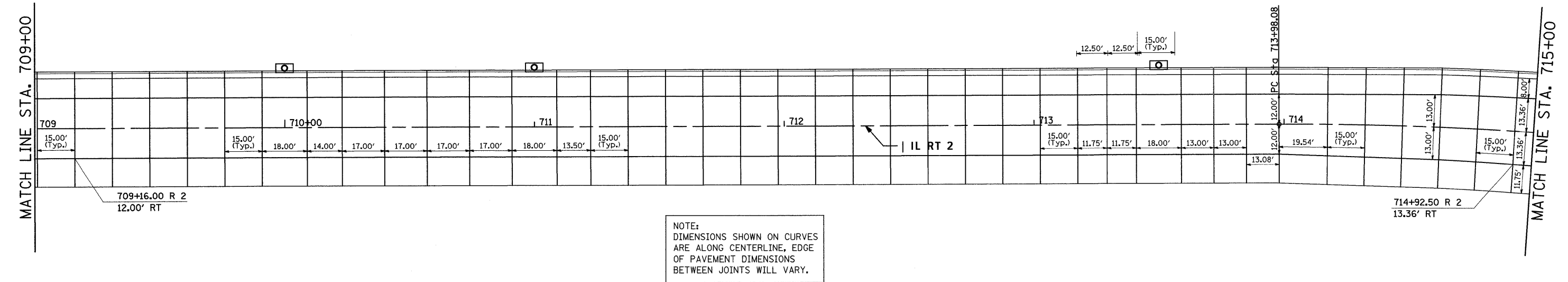
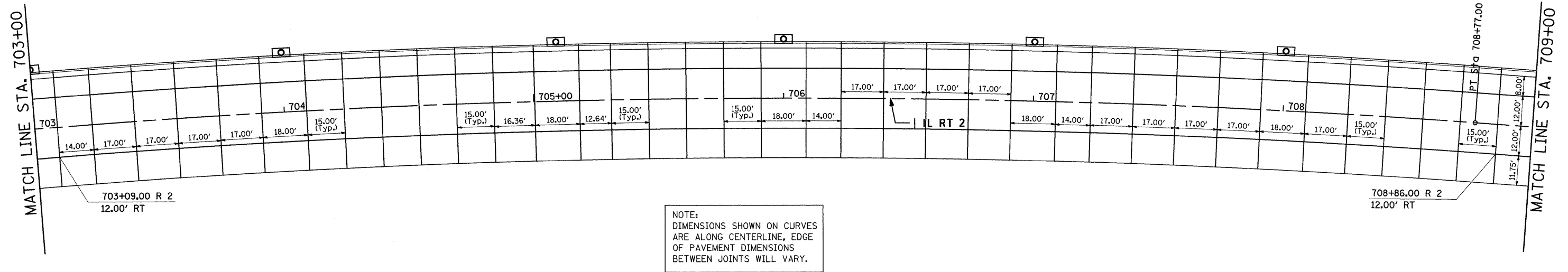
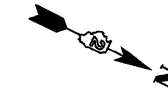
NOTE:  
DIMENSIONS SHOWN ON CURVES  
ARE ALONG CENTERLINE, EDGE  
OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.



NOTE:  
DIMENSIONS SHOWN ON CURVES  
ARE ALONG CENTERLINE, EDGE  
OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.

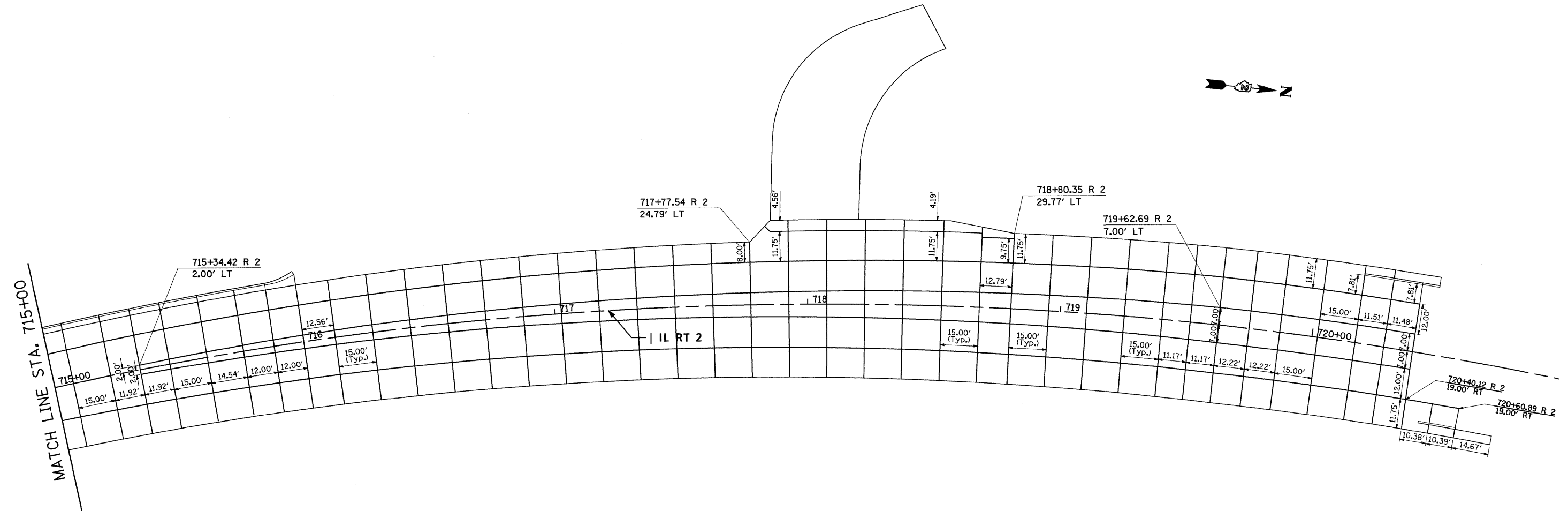
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwork\PM\DOT\GRANTPM\dms31213\ Pavt\Joint_Sheets.dgn	DRAWN -	REVISED -	742			37R-4	OGLE	867	130	
PLOT SCALE = 20,0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 64E17							
PLOT DATE = Tue Mar 30 11:29:49 2010	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT			
				SCALE:	SHEET NO. OF SHEETS STA. TO STA.					

# PAVEMENT JOINTING



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwidot\GRANTPM\dms31213\pav	Joint_Sheets.dgn	DRAWN -	REVISED -			742	37R-4	OGLE	867	131
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 64E17				
	PLOT DATE = Tue Mar 30 11:29:49 2010	DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
				SCALE:	SHEET NO. OF SHEETS STA. TO STA.					

# PAVEMENT JOINTING

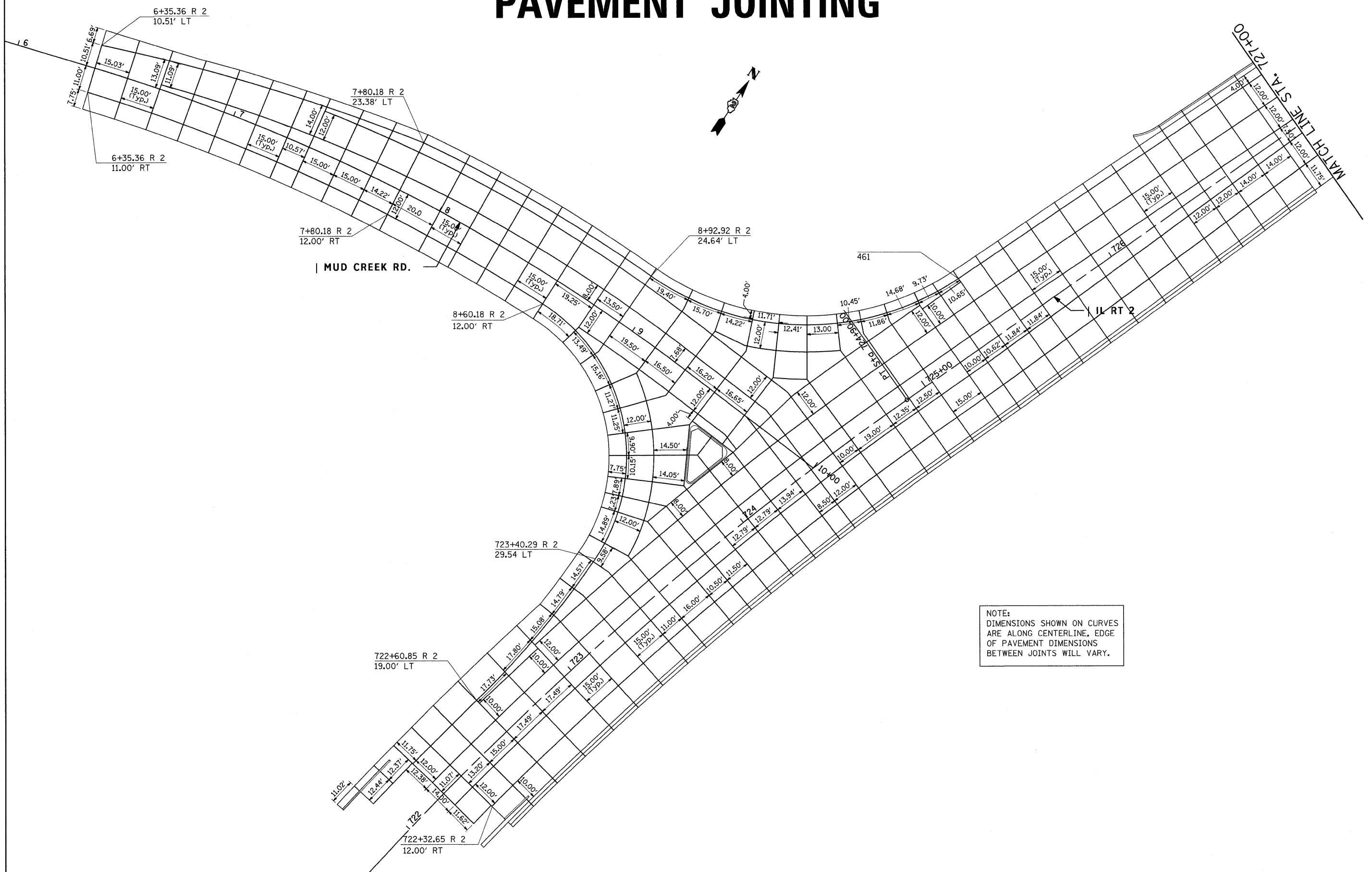
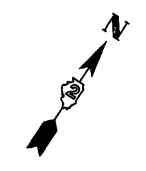


NOTE:  
DIMENSIONS SHOWN ON CURVES  
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OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\p\WIDOT\GRANTPM\dms31213\ Pavt Joint_Sheets.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			742	37R-4	OGLE	867	132	
PLOT DATE = Tue Mar 30 11:29:50 2010	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64E17					
						SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.



# PAVEMENT JOINTING



NOTE:  
DIMENSIONS SHOWN ON CURVES  
ARE ALONG CENTERLINE, EDGE  
OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
ct:\pwork\NPWIDOT\GRANTPM\dms31213\pav	Joint_Sheets.dgn	DRAWN -	REVISED -
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	PLOT DATE = Tue Mar 30 11:29:51 2010	DATE -	REVISED -

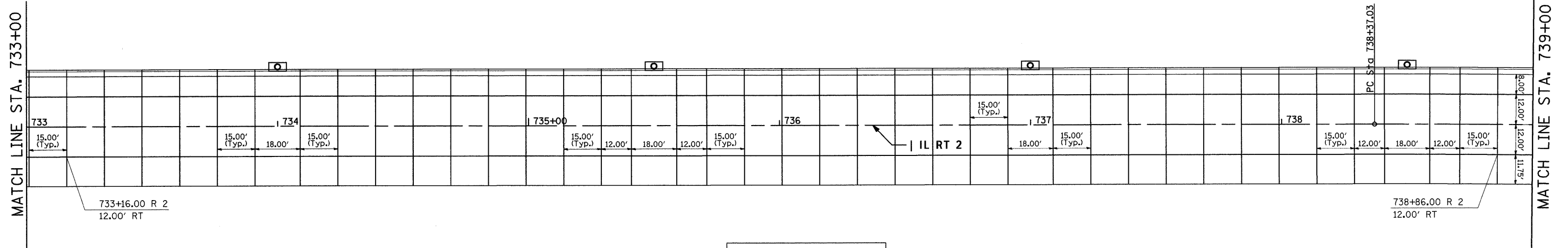
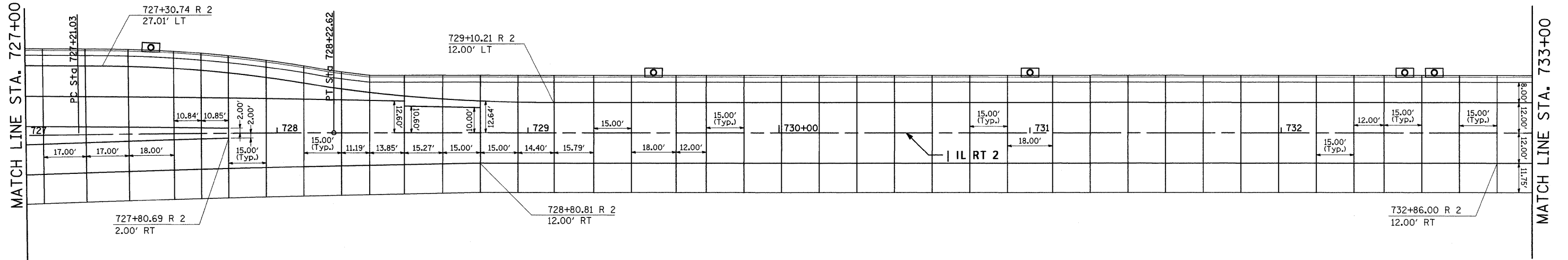
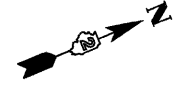
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

## PAVEMENT JOINTING

SCALE: SHEET NO. OF SHEETS STA. TO STA.

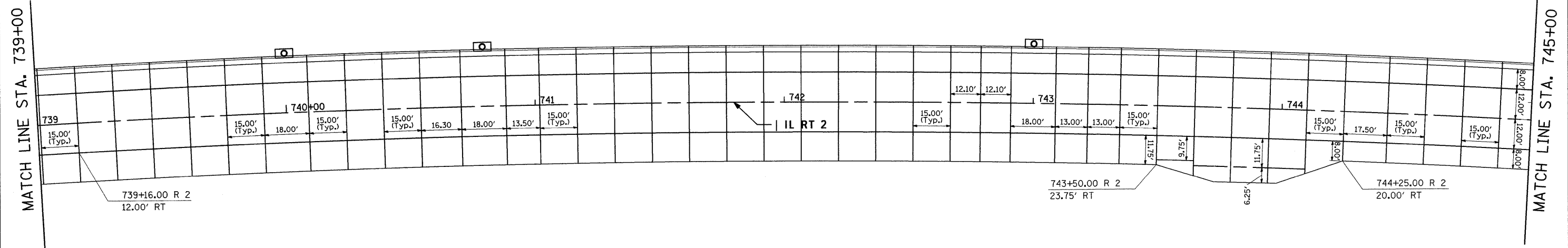
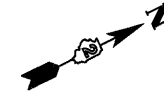
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	133
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E17	

# PAVEMENT JOINTING

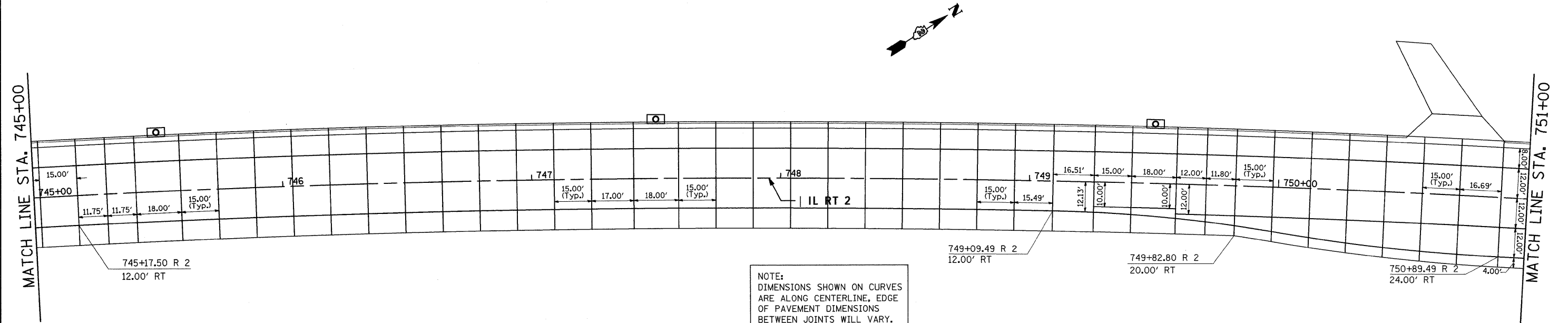


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pwwork\PIWIDOT\GRANTPM\dms31213\Part	Joint_Sheets.dgn	DRAWN -	REVISED -			742	37R-4	OGLE	867	134
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 64E17				
	PLOT DATE = Tue Mar 30 11:29:51 2010	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. OF SHEETS STA. TO STA.					

# PAVEMENT JOINTING



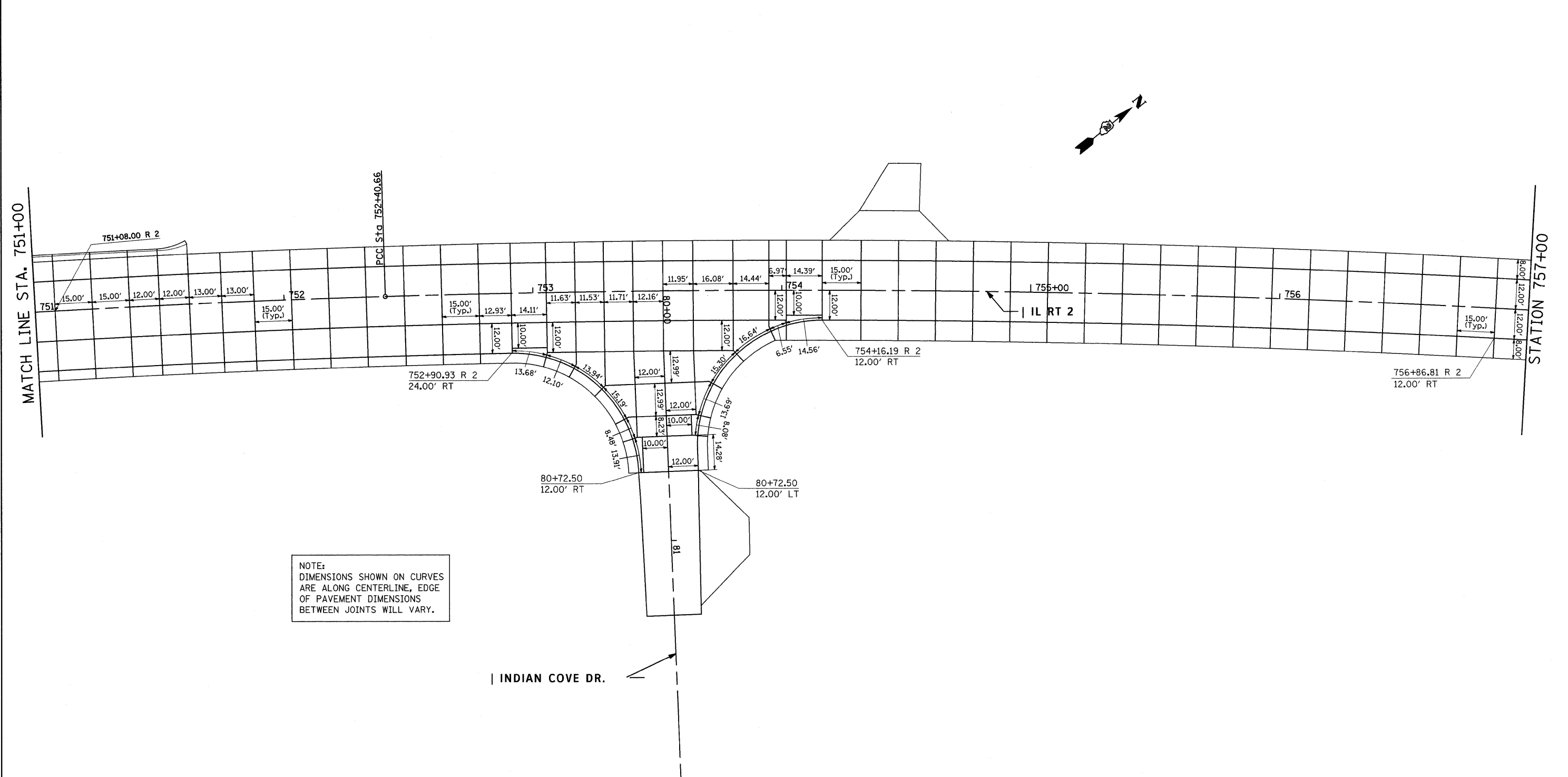
NOTE:  
DIMENSIONS SHOWN ON CURVES  
ARE ALONG CENTERLINE, EDGE  
OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.



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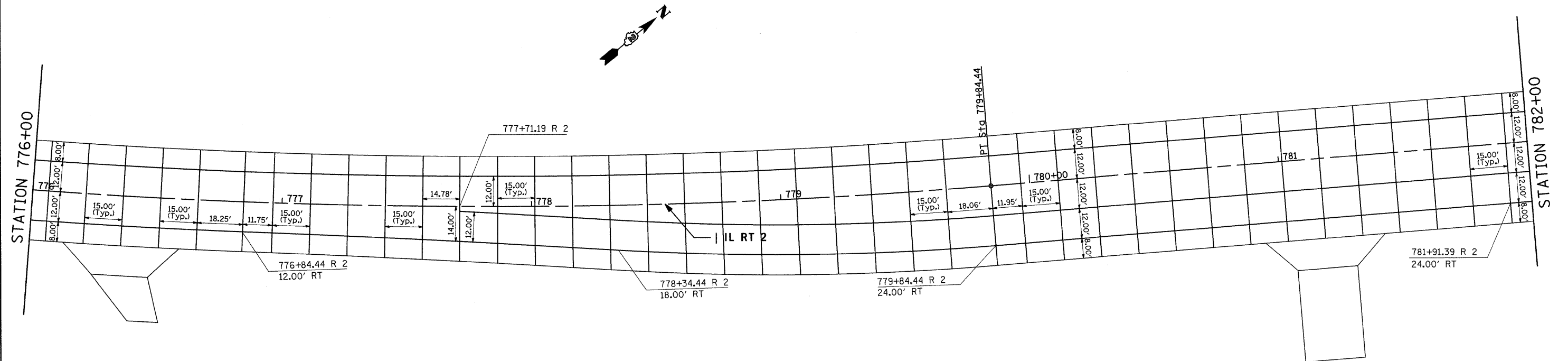
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os:\pwork\PIWIDOT\GRANTPM\dms31213\Favt	Joint_Sheets.dgn	DRAWN -	REVISED -			742	37R-4	OGLE	867	135	
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 64E17					
	PLOT DATE = Tue Mar 30 11:29:52 2010	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE:						SHEET NO. OF SHEETS		STA. TO STA.			

# PAVEMENT JOINTING



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cs:\pwork\PIWIDOT\GRANTPM\dms31213\ PavtJoint.Sheets.dgn	DRAWN -	REVISED -	742			37R-4	OGLE	867	136	
PLOT SCALE = 20,0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 64E17							
PLOT DATE = Tue Mar 30 11:29:52 2010	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	

# PAVEMENT JOINTING



NOTE:  
 DIMENSIONS SHOWN ON CURVES  
 ARE ALONG CENTERLINE, EDGE  
 OF PAVEMENT DIMENSIONS  
 BETWEEN JOINTS WILL VARY.

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
ct:\pwork\VPWIDOT\GRANTPM\dms31213\ Pavt	Joint_Sheets.dgn	DRAWN -	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Tue Mar 30 11:29:52 2010	DATE -	REVISED -

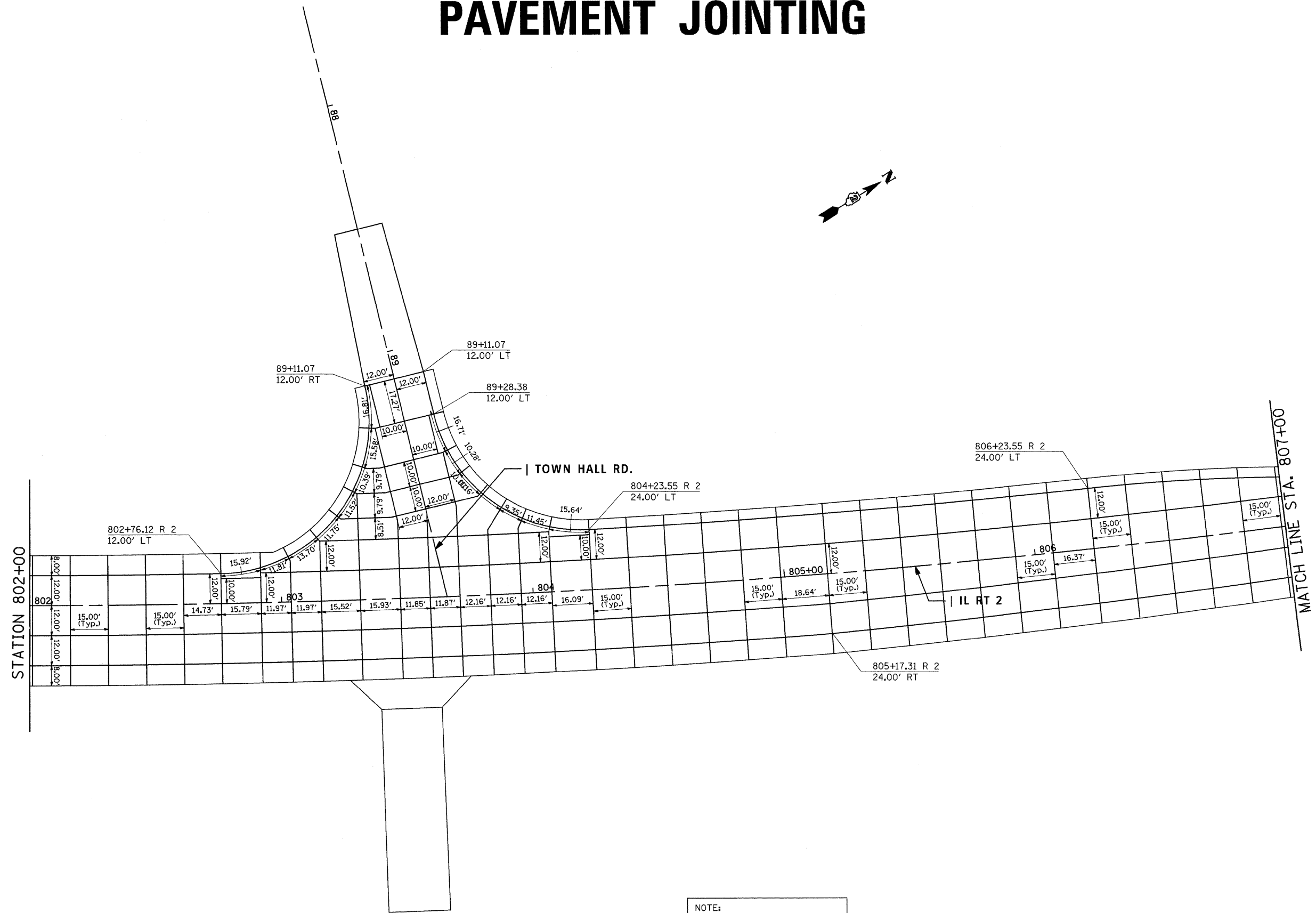
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT JOINTING**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	137
CONTRACT NO. 64E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

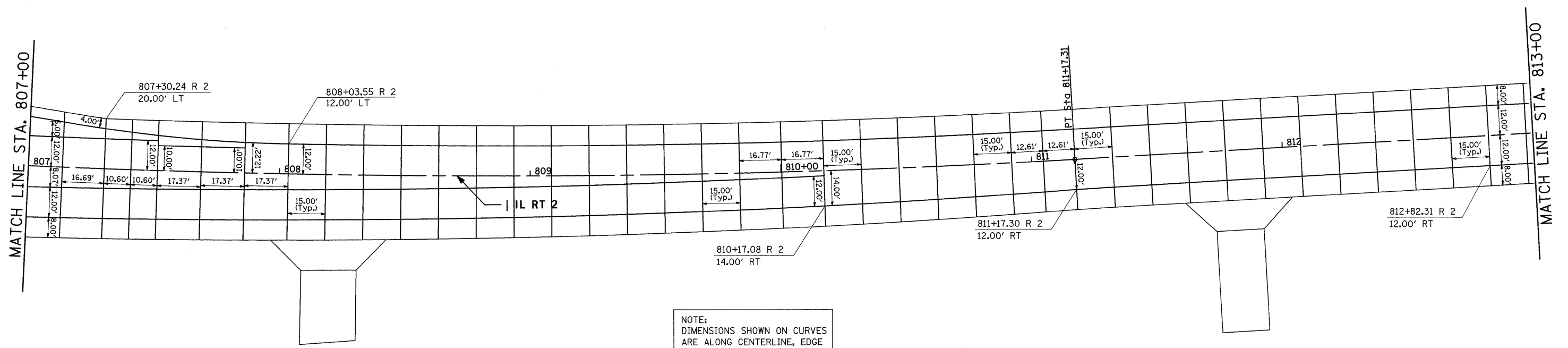
# PAVEMENT JOINTING



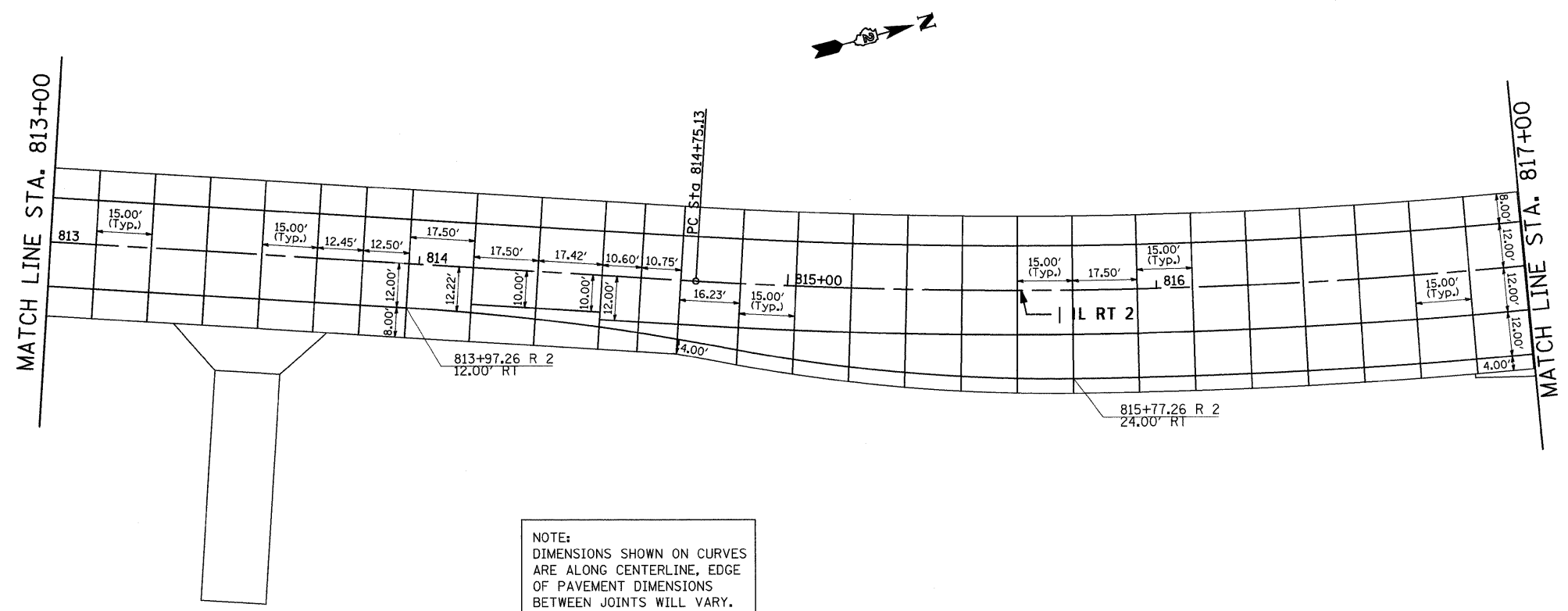
NOTE:  
DIMENSIONS SHOWN ON CURVES  
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OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw-work\PIWIDOT\GRANTPM\dms31213\ Pavt	Joint.Sheets.dgn	DRAWN -	REVISED -			742	37R-4	OGLE	867	138	
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -			SCALE:		SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 64E17	
	PLOT DATE = Tue Mar 30 11:29:53 2010	DATE -	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

# PAVEMENT JOINTING



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FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
cs:\pwork\PMIDOT\GRANTPM\dms31213\pav\Joint_Sheets.dgn		DRAWN -	REVISED -
PLOT SCALE = 20,0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Tue Mar 30 11:29:53 2010		DATE -	REVISED -

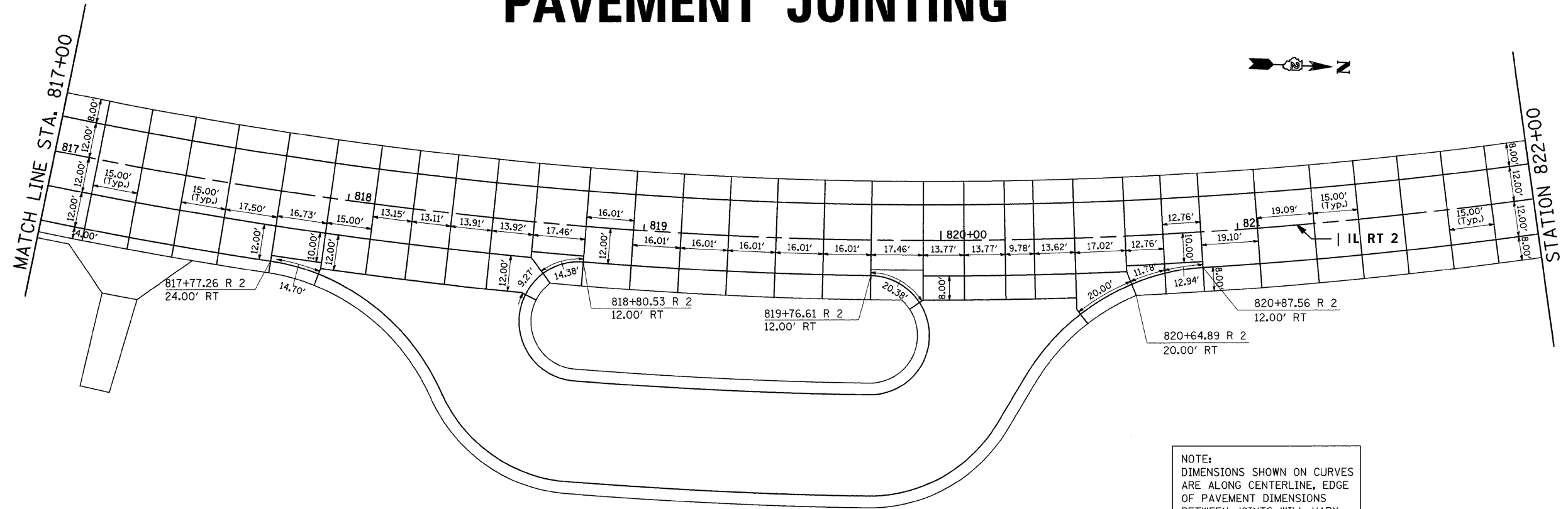
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

## PAVEMENT JOINTING

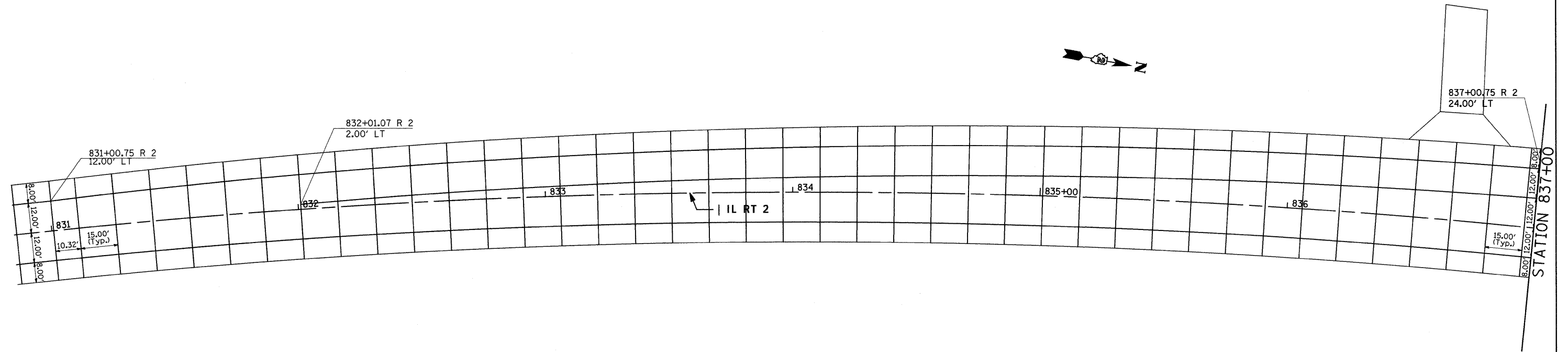
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 139
CONTRACT NO. 64E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# PAVEMENT JOINTING



NOTE:  
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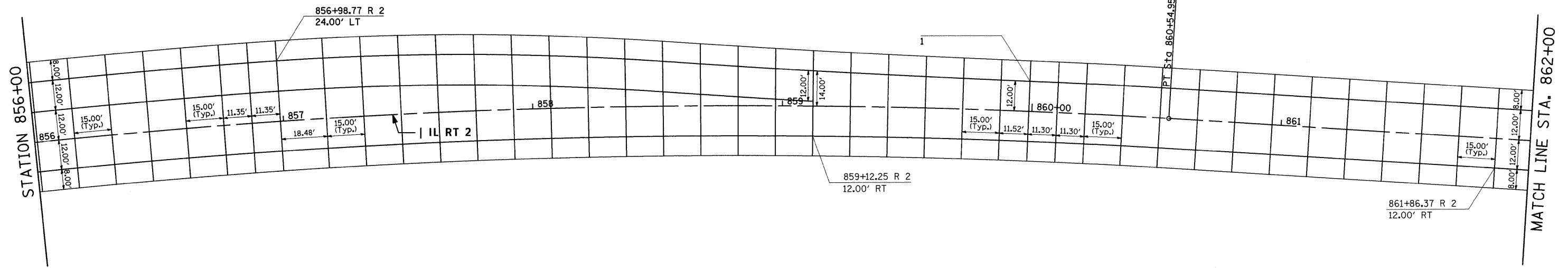


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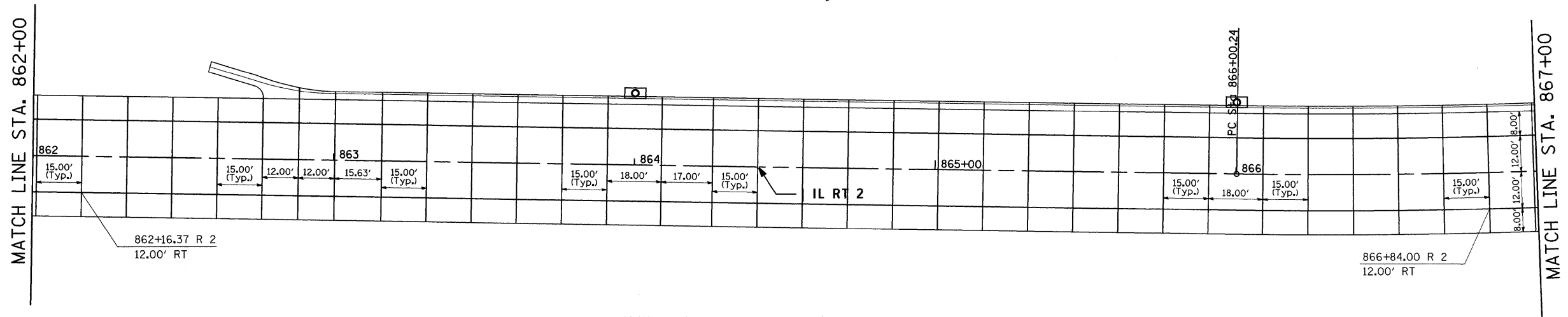
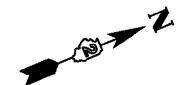
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pwork\VPWIDOT\GRANTPM\dms31213\ Pavt	Joint_Sheets.dgn	DRAWN -	REVISED -			742	37R-4	OGLE	867	140	
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 64E17					
	PLOT DATE = Tue Mar 30 11:29:54 2010	DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.



# PAVEMENT JOINTING



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FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
c:\pwork\pwork\PIWIDOT\GRANTPM\dms31213\pav	Joint_Sheets.dgn	DRAWN -	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Tue Mar 30 11:29:54 2010	DATE -	REVISED -

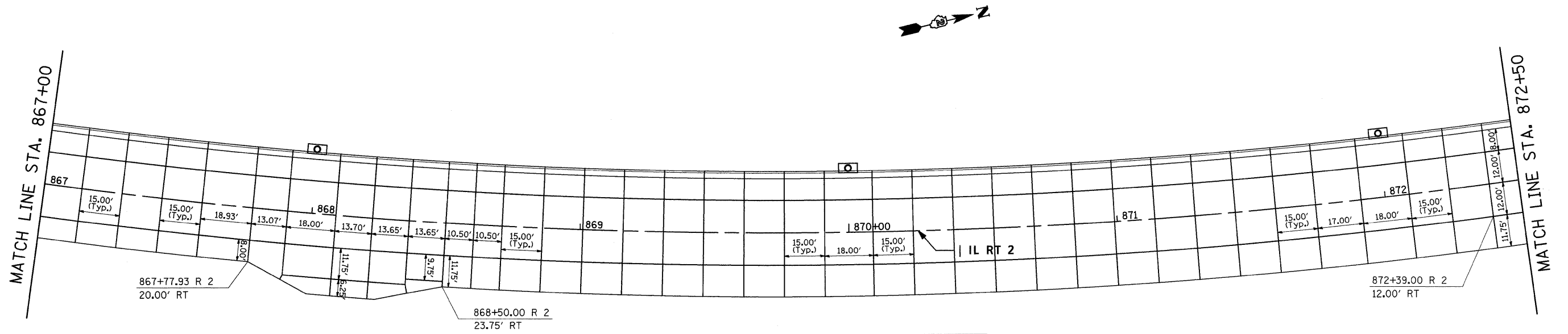
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

## PAVEMENT JOINTING

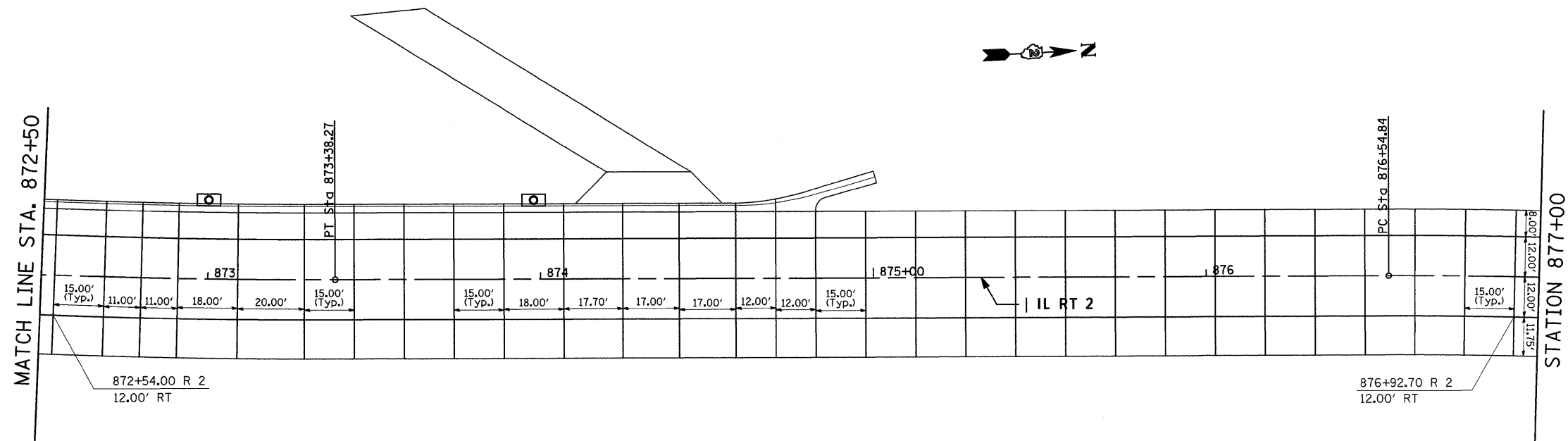
SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	141
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64E17	

# PAVEMENT JOINTING



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FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
ct:\pw_work\NPWIDOT\GRANTPM\dms31213\ Pavt	Joint_Sheets.dgn	DRAWN -	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Tue Mar 30 11:29:55 2010	DATE -	REVISED -

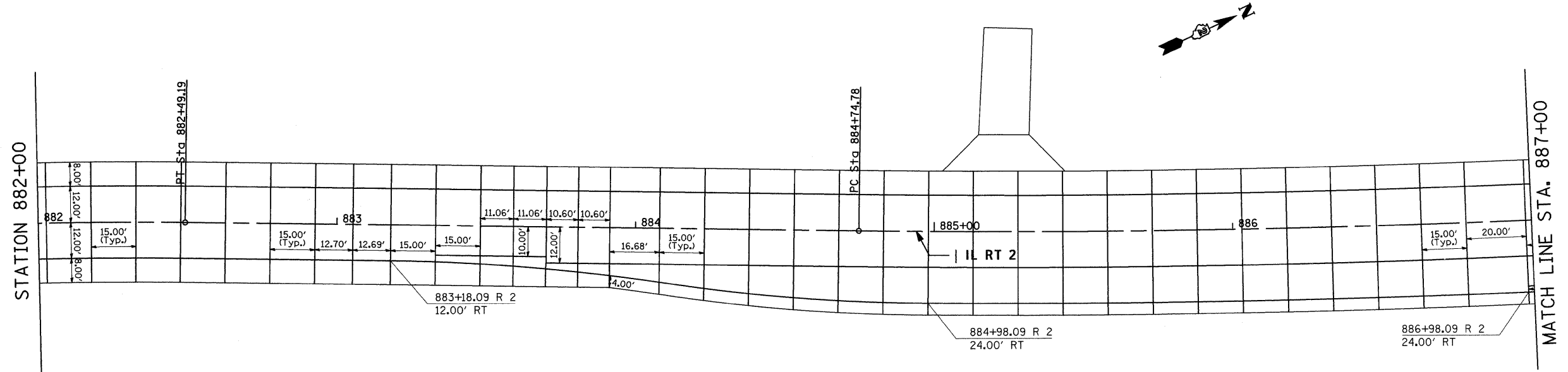
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

## PAVEMENT JOINTING

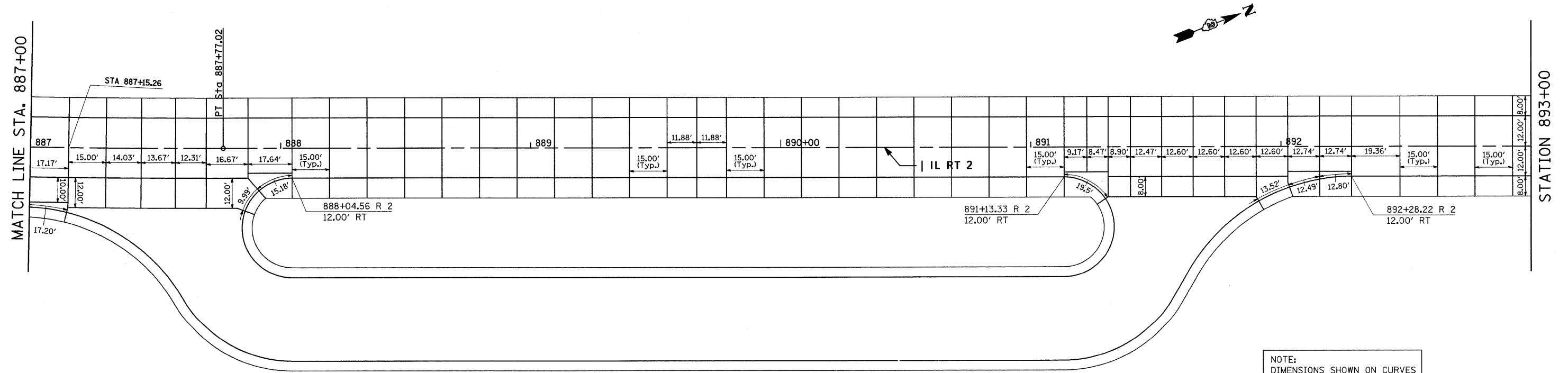
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	142
CONTRACT NO. 64E17				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# PAVEMENT JOINTING



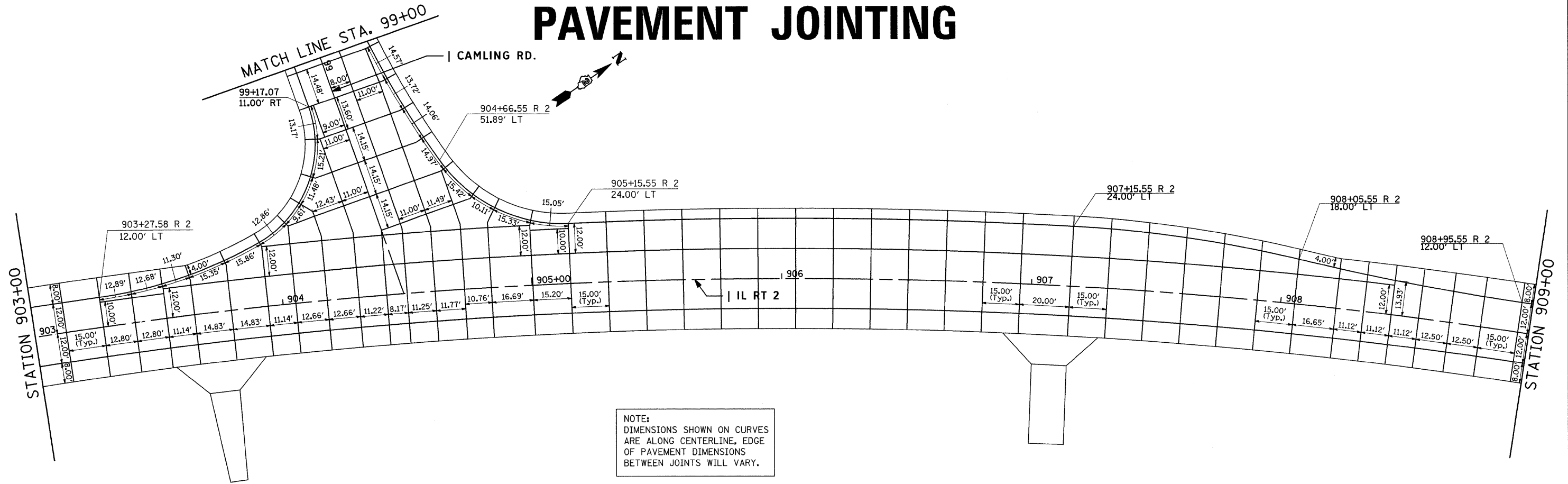
NOTE:  
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OF PAVEMENT DIMENSIONS  
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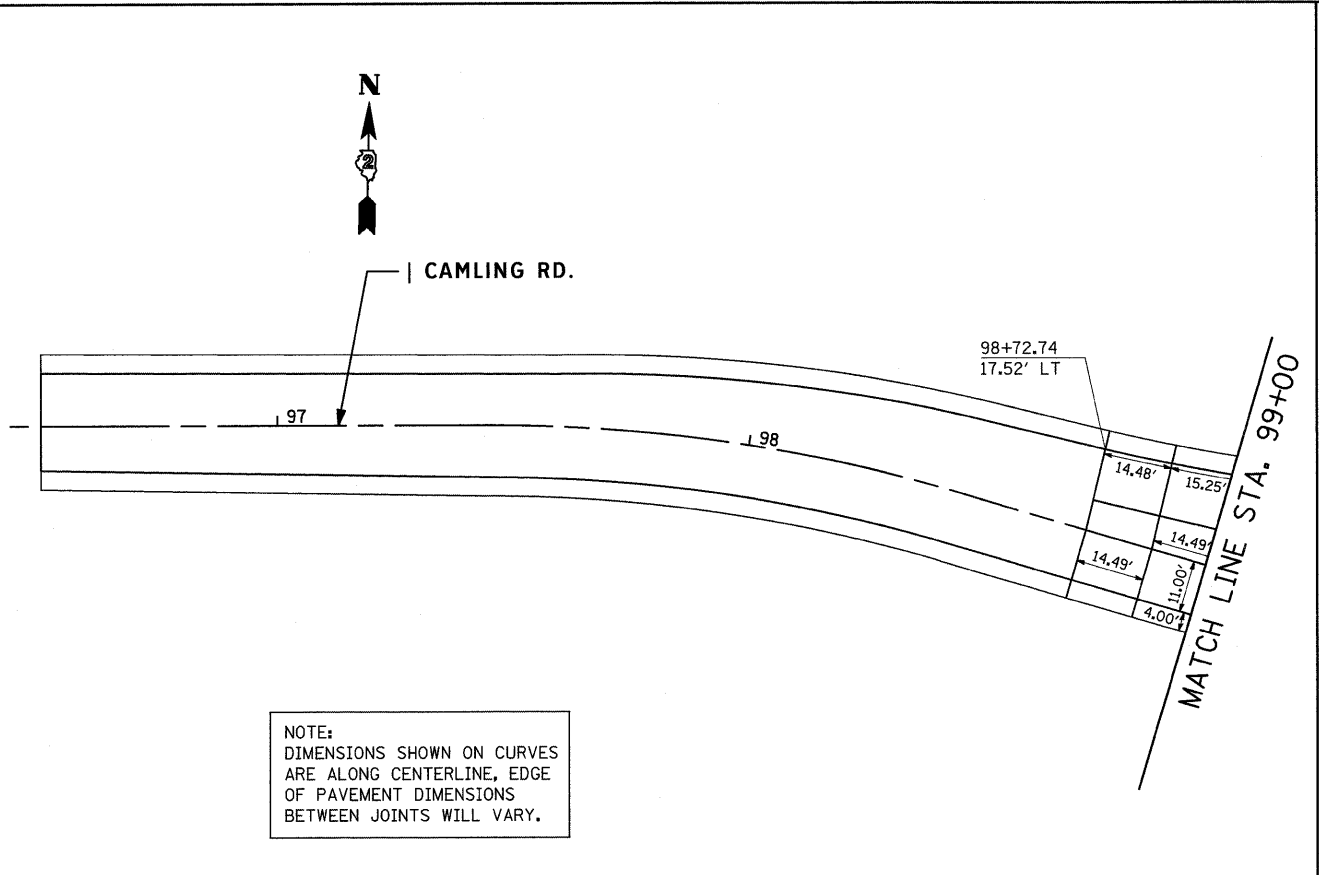
NOTE:  
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OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwidot\GRANTPM\dms31213\Favt	Joint_Sheets.dgn	DRAWN -	REVISED -			742	37R-4	OGLE	867	143
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 64E17				
	PLOT DATE = Tue Mar 30 11:29:55 2010	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE: _____						SHEET NO. OF SHEETS STA. TO STA.				

# PAVEMENT JOINTING



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FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
c:\pwork\pwidot\GRANTPM\dms31213\pav	Joint_Sheets.dgn	DRAWN -	REVISED -
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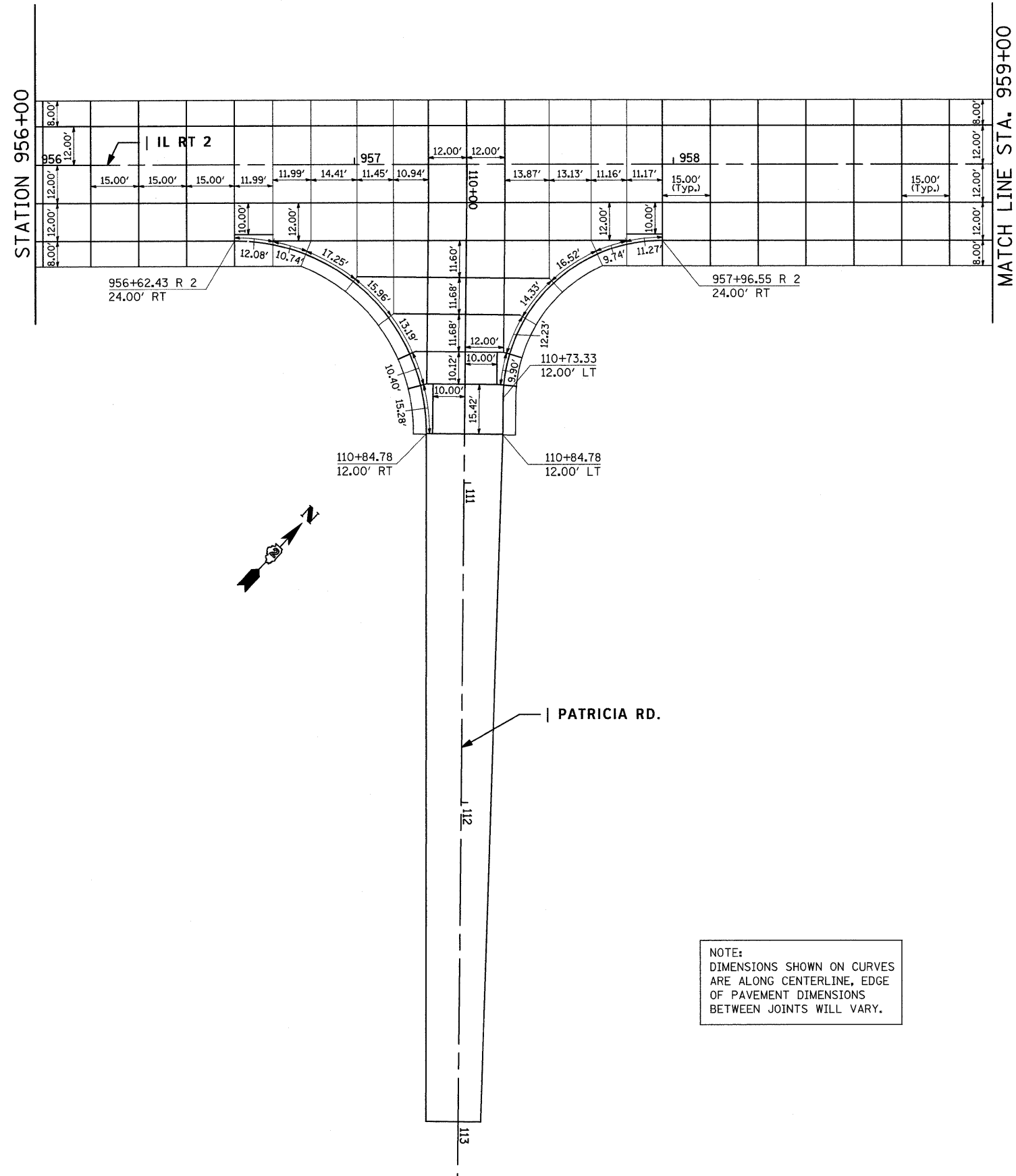
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

## PAVEMENT JOINTING

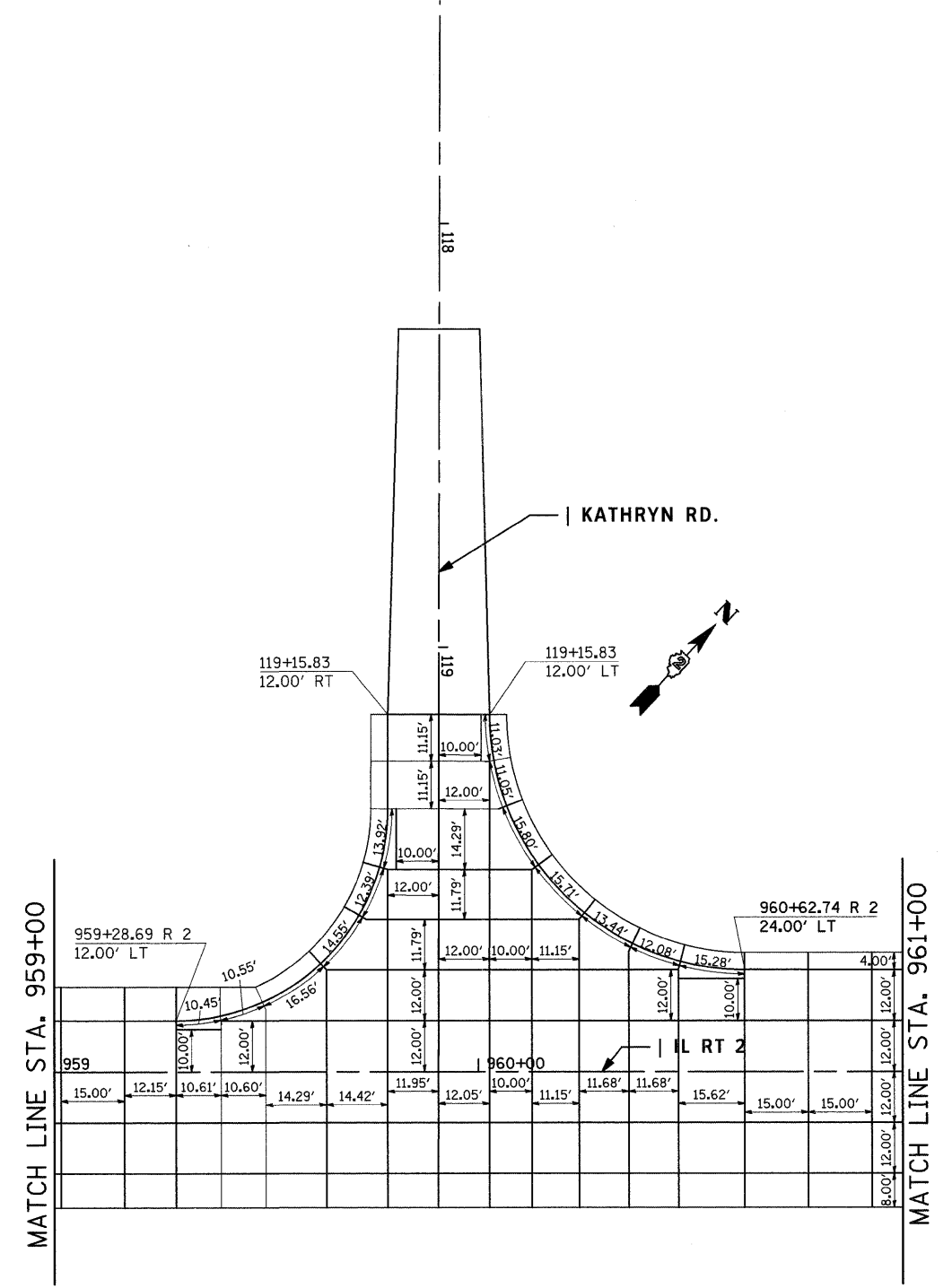
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	144
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E17	

# PAVEMENT JOINTING



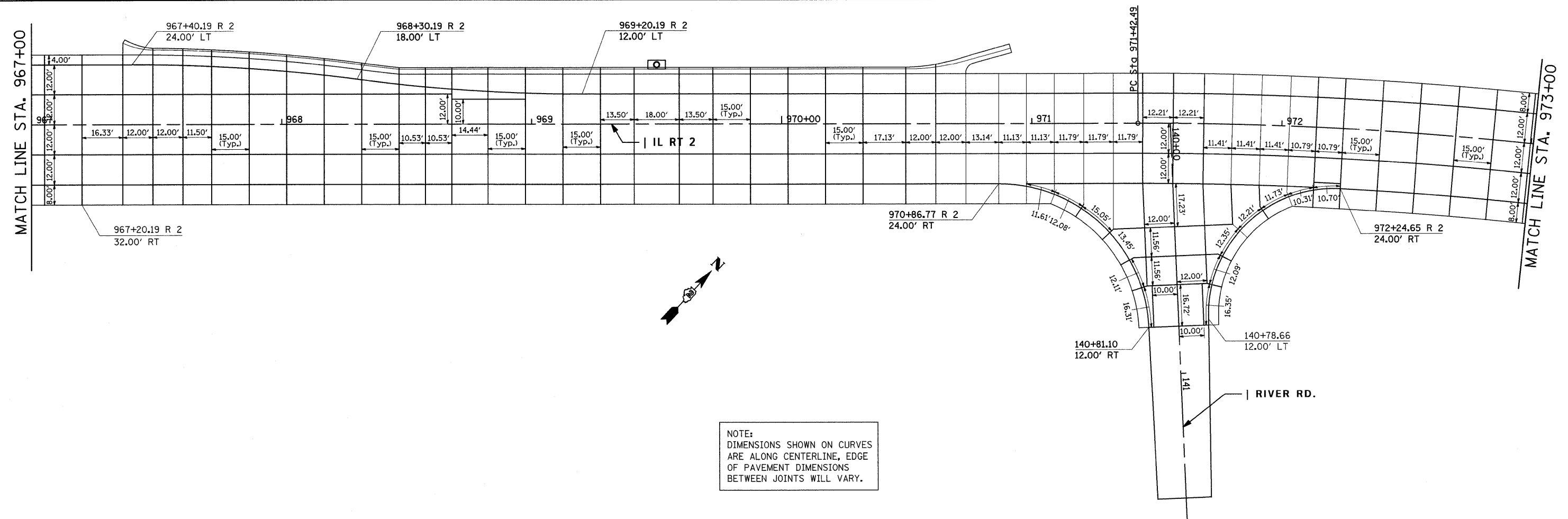
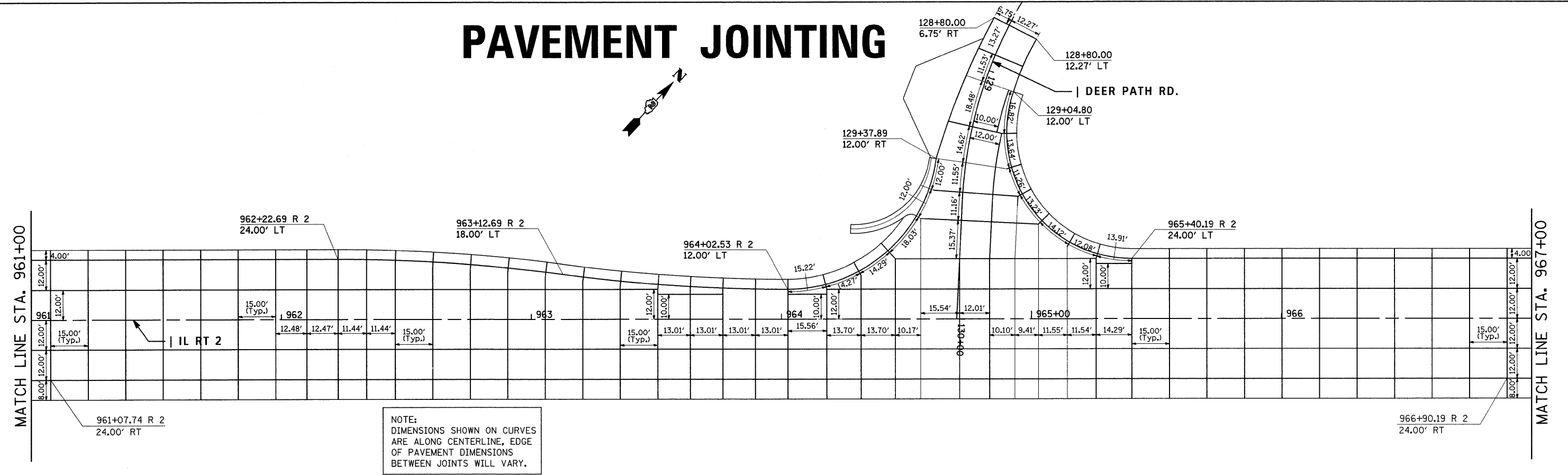
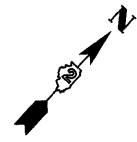
NOTE:  
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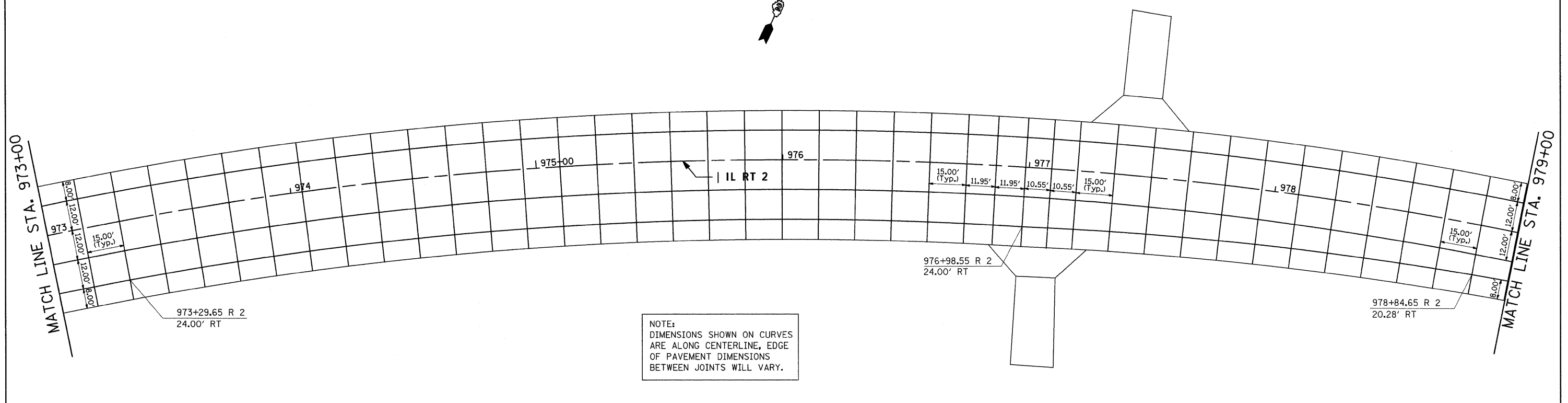
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwidot\GRANTPM\dms31213\pavt	Joint_Sheets.dgn	DRAWN -	REVISED -			742	37R-4	OGLE	867	145	
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 64E17					
	PLOT DATE = Tue Mar 30 11:29:56 2010	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO. OF SHEETS STA. TO STA.					

# PAVEMENT JOINTING

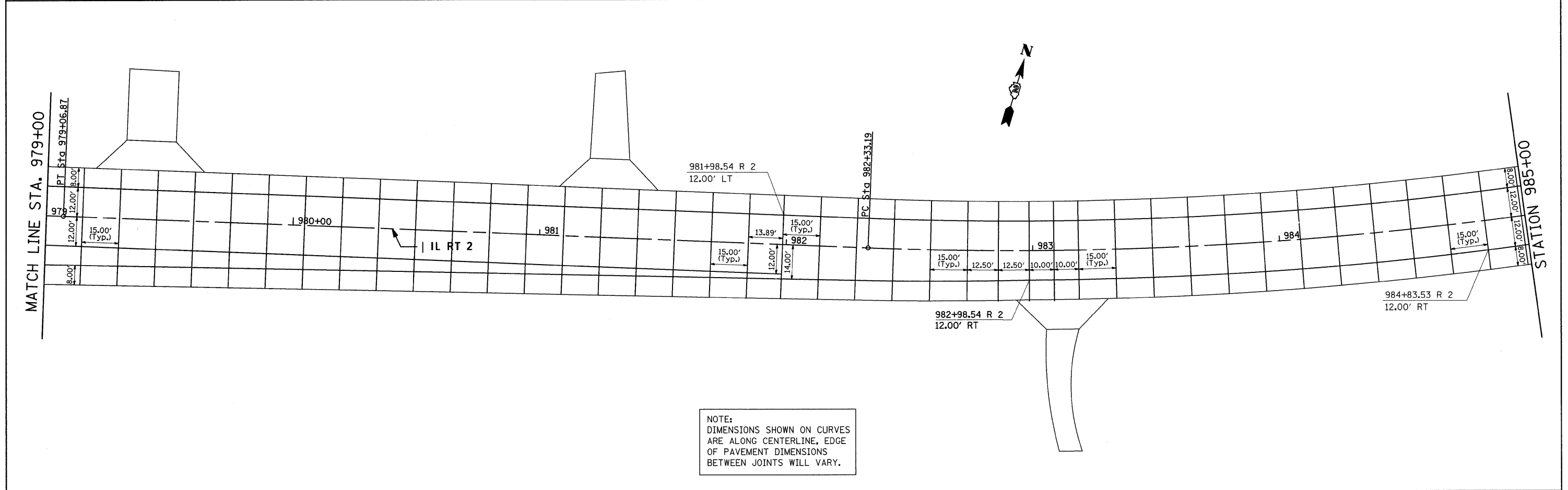


FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\p-work\p\WIDOT\GRANTPM\dms31213\Favt\Joint_Sheets.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			742	37R-4	OGLE	867	146	
PLOT DATE = Tue Mar 30 11:29:57 2010	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64E17					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE:						SHEET NO. OF SHEETS STA. TO STA.					

# PAVEMENT JOINTING



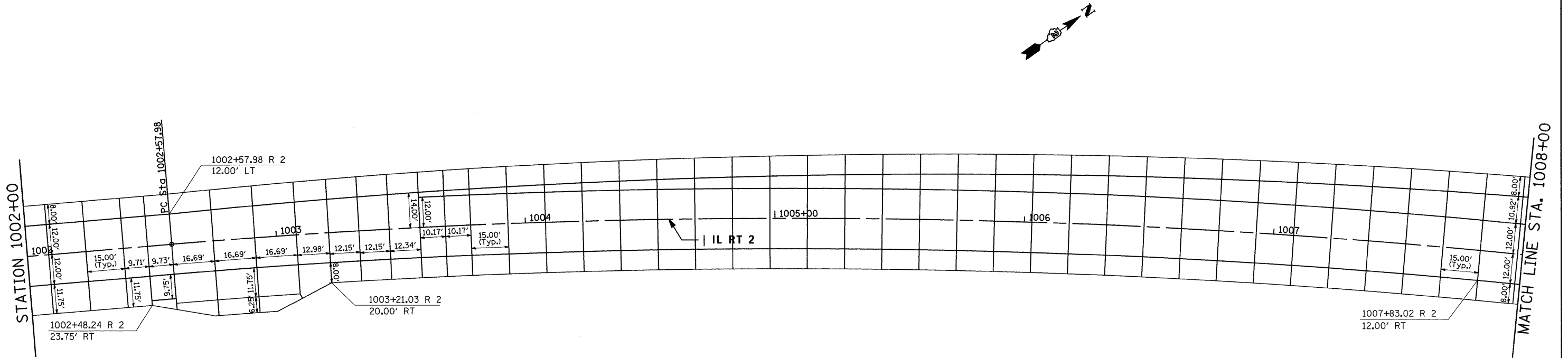
NOTE:  
DIMENSIONS SHOWN ON CURVES  
ARE ALONG CENTERLINE, EDGE  
OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.



NOTE:  
DIMENSIONS SHOWN ON CURVES  
ARE ALONG CENTERLINE, EDGE  
OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pwwork\NPWIDOT\GRANTPM\dms31213\ Pavt	Joint_Sheets.dgn	DRAWN -	REVISED -			742	37R-4	OGLE	867	147	
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 64E17					
	PLOT DATE = Tue Mar 30 11:29:57 2010	DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

# PAVEMENT JOINTING

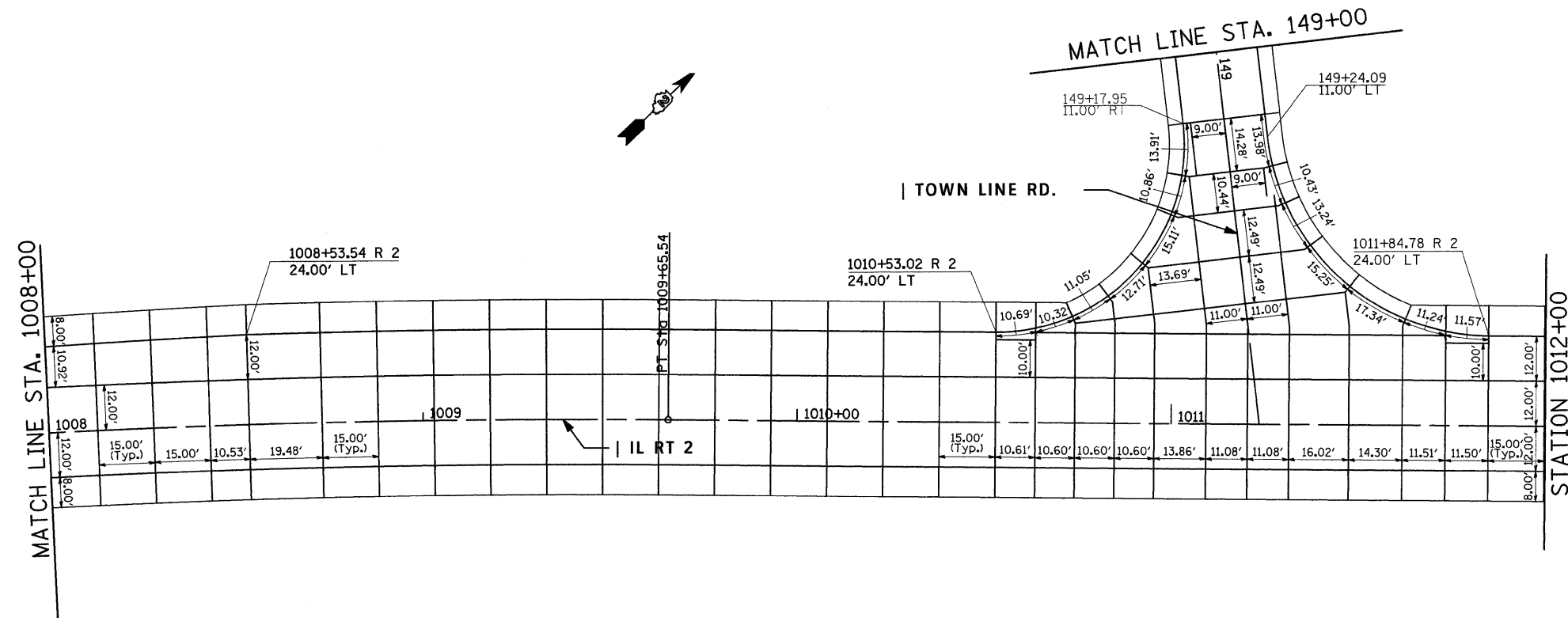


NOTE:  
DIMENSIONS SHOWN ON CURVES  
ARE ALONG CENTERLINE, EDGE  
OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.

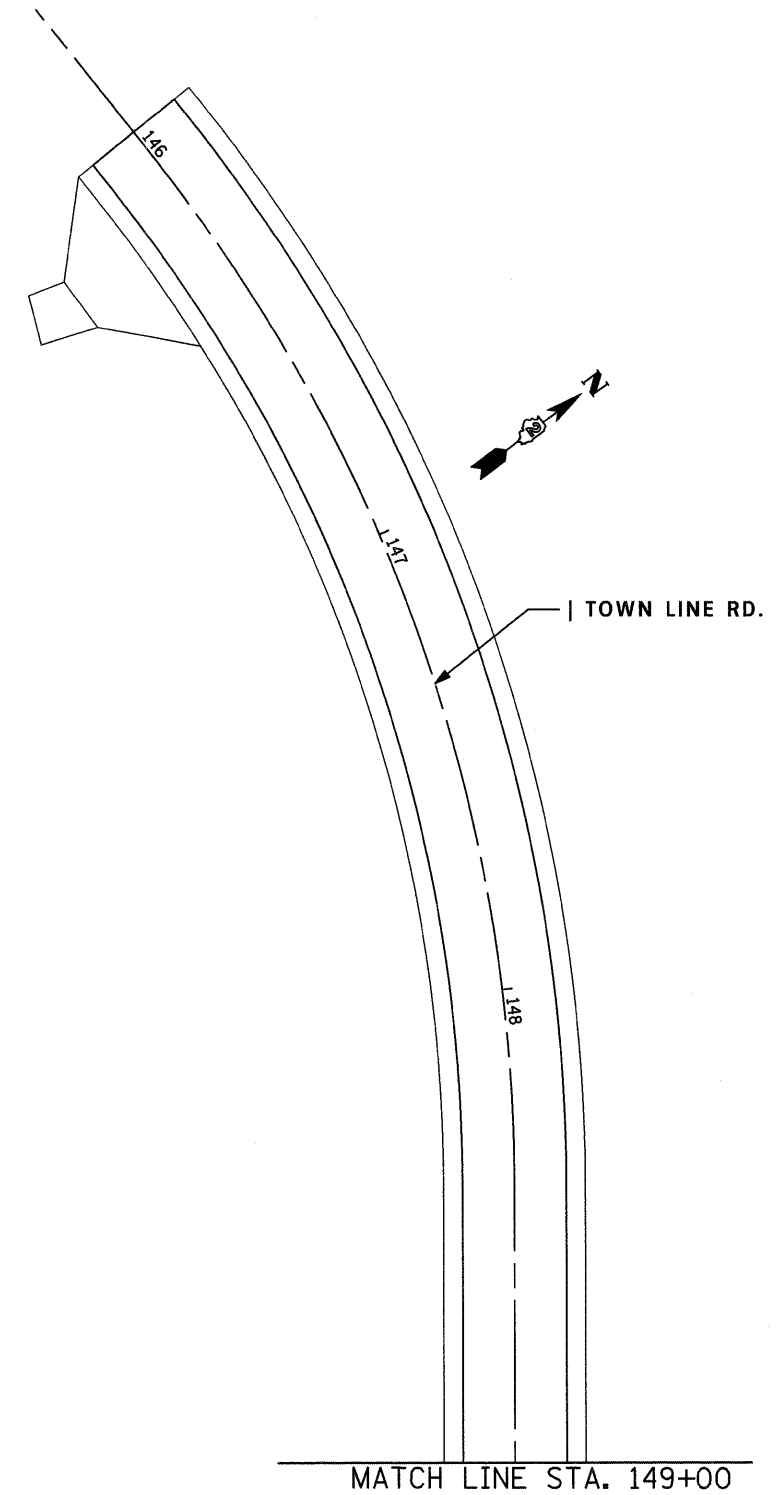
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cs:\pwork\pwork\GRANTPM\dms31213\pavement\Joint_Sheets.dgn	PLOT SCALE = 20,0000' / IN.	DRAWN -	REVISED -			742	37R-4	OGLE	867	148	
	PLOT DATE = Tue Mar 30 11:29:58 2010	CHECKED -	REVISED -			CONTRACT NO. 64E17					
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



# PAVEMENT JOINTING



NOTE:  
DIMENSIONS SHOWN ON CURVES  
ARE ALONG CENTERLINE, EDGE  
OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.



NOTE:  
DIMENSIONS SHOWN ON CURVES  
ARE ALONG CENTERLINE, EDGE  
OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.

FILE NAME =  
c:\pwwork\pwwid01\GRANTPM\dms31213\pavt  
Joint\_Sheets.dgn  
PLOT SCALE = 20.0000' / IN.  
PLOT DATE = Tue Mar 30 11:29:58 2010

USER NAME = grantpm  
DESIGNED -  
DRAWN -  
CHECKED -  
DATE -  
REVISED -  
REVISED -  
REVISED -  
REVISED -

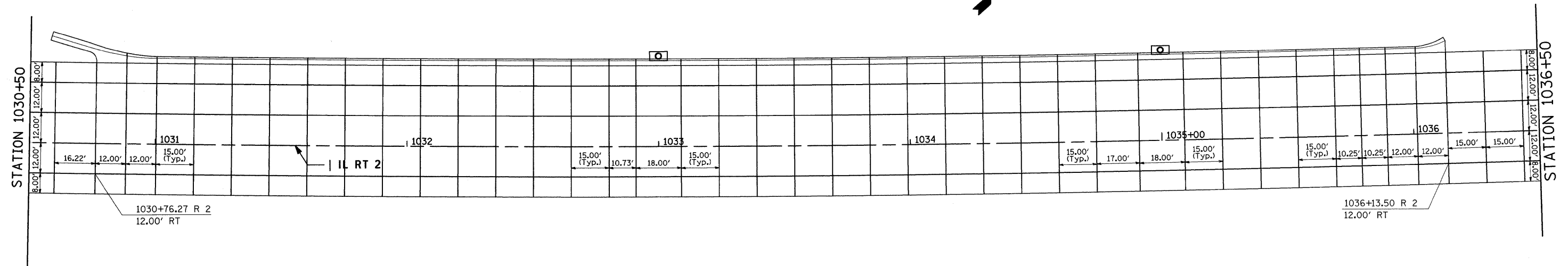
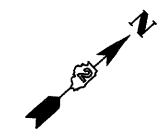
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

## PAVEMENT JOINTING

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	149
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E17	

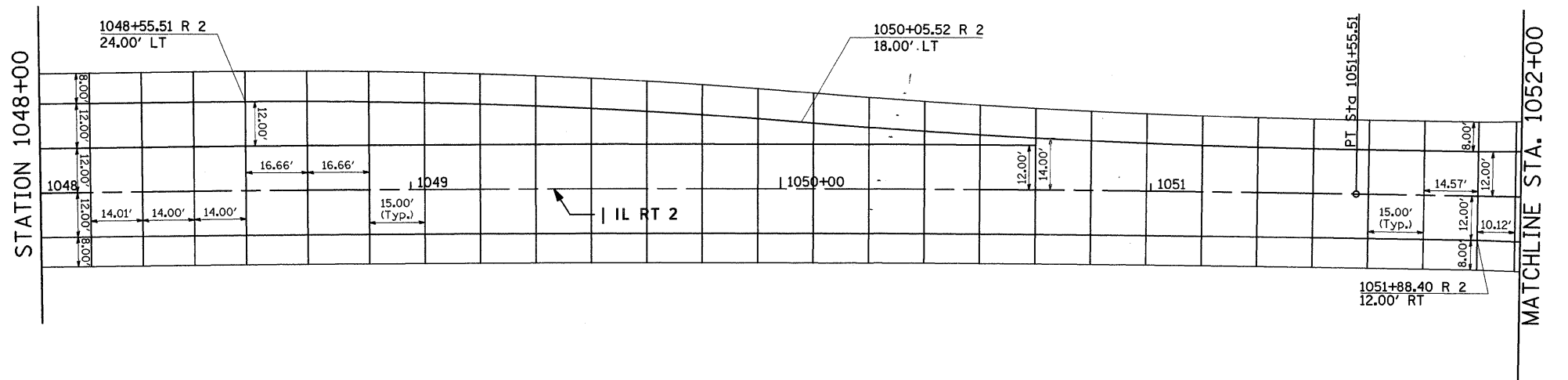
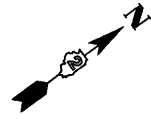
# PAVEMENT JOINTING



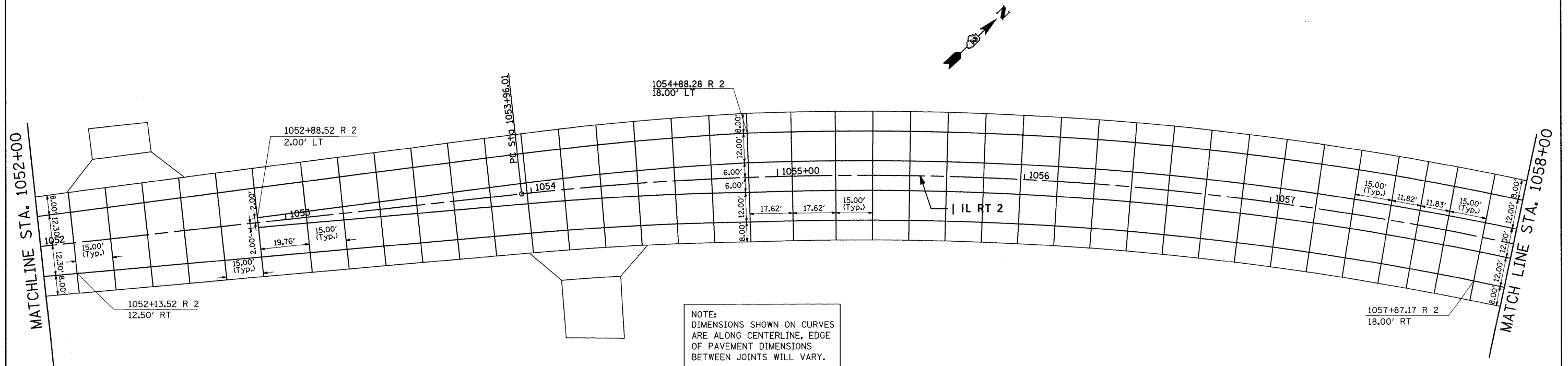
NOTE:  
 DIMENSIONS SHOWN ON CURVES  
 ARE ALONG CENTERLINE, EDGE  
 OF PAVEMENT DIMENSIONS  
 BETWEEN JOINTS WILL VARY.

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. P.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
os:\pwork\pwidot\GRANTPM\dms31213\pavement\Joint_Sheets.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			742	37R-4	OGLE	867	150	
PLOT DATE = Tue Mar 30 11:27:58 2010	DATE -	CHECKED -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 64E17			
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

# PAVEMENT JOINTING



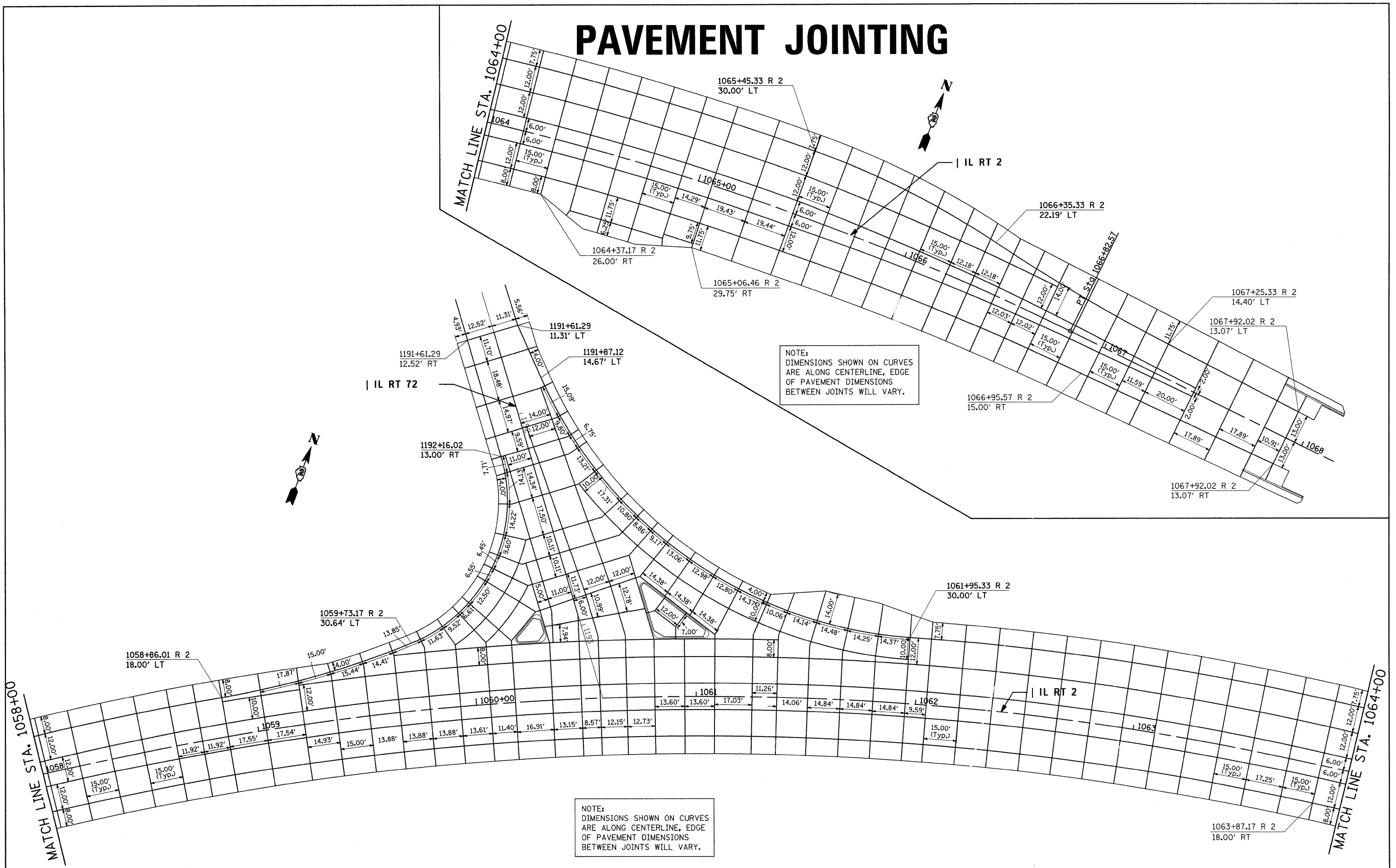
NOTE:  
DIMENSIONS SHOWN ON CURVES  
ARE ALONG CENTERLINE, EDGE  
OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.



NOTE:  
DIMENSIONS SHOWN ON CURVES  
ARE ALONG CENTERLINE, EDGE  
OF PAVEMENT DIMENSIONS  
BETWEEN JOINTS WILL VARY.

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT JOINTING</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\PIWIDOT\GRANTPM\dms31213\pav	Joint_Sheets.dgn	DRAWN -	REVISED -			742	37R-4	OGLE	867	151
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 64E17				
	PLOT DATE = Tue Mar 30 11:29:59 2010	DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
SCALE:						SHEET NO.	OF	SHEETS	STA.	TO STA.

# PAVEMENT JOINTING



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
ca:\pwork\PMIDOT\GRANTPM\dms31213\ Pavt	Joint_Sheets.dgn	DRAWN -	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Tue Mar 30 11:29:59 2010	DATE -	REVISED -

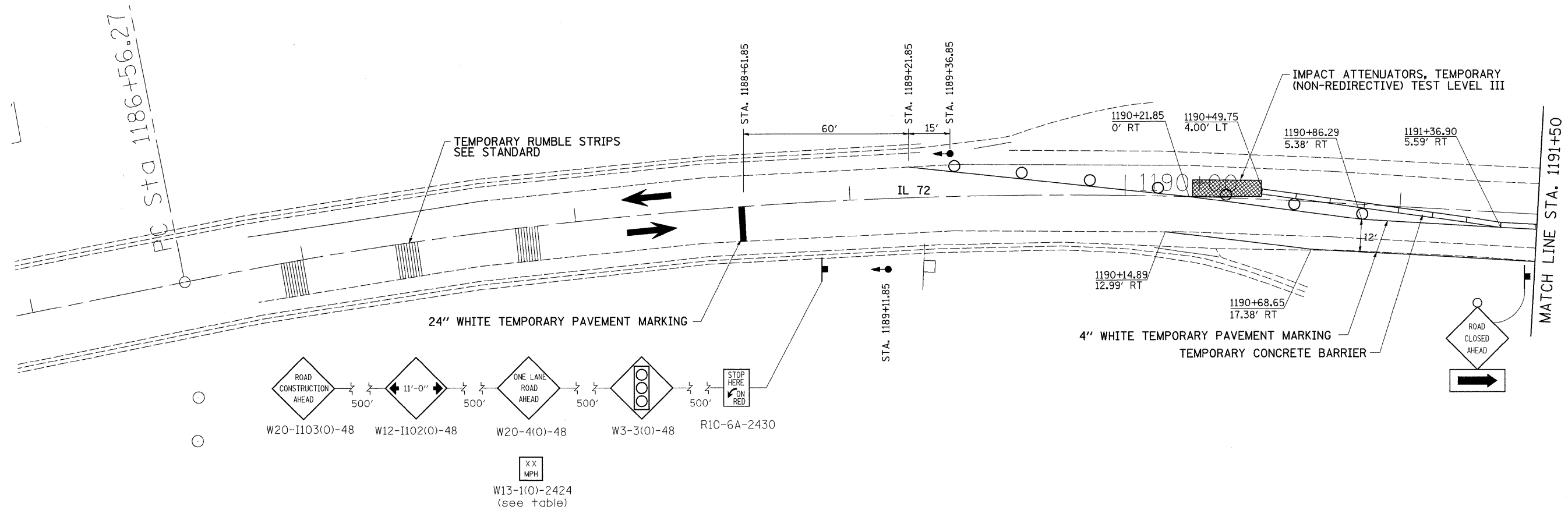
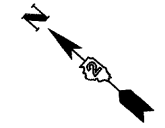
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

## PAVEMENT JOINTING

SCALE: SHEET NO. OF SHEETS STA. TO STA.

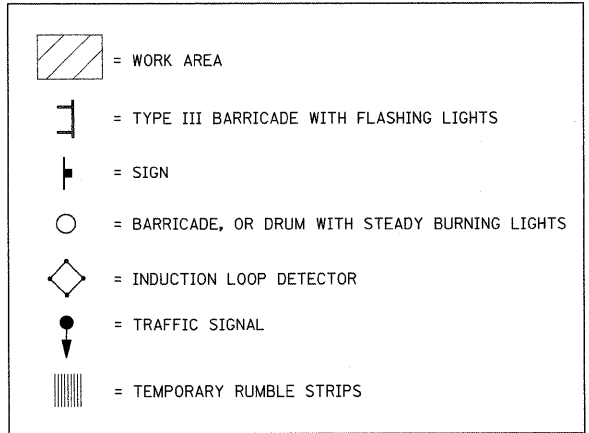
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3TR-4	OGLE	867	152
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 64E17		

# STAGE 1



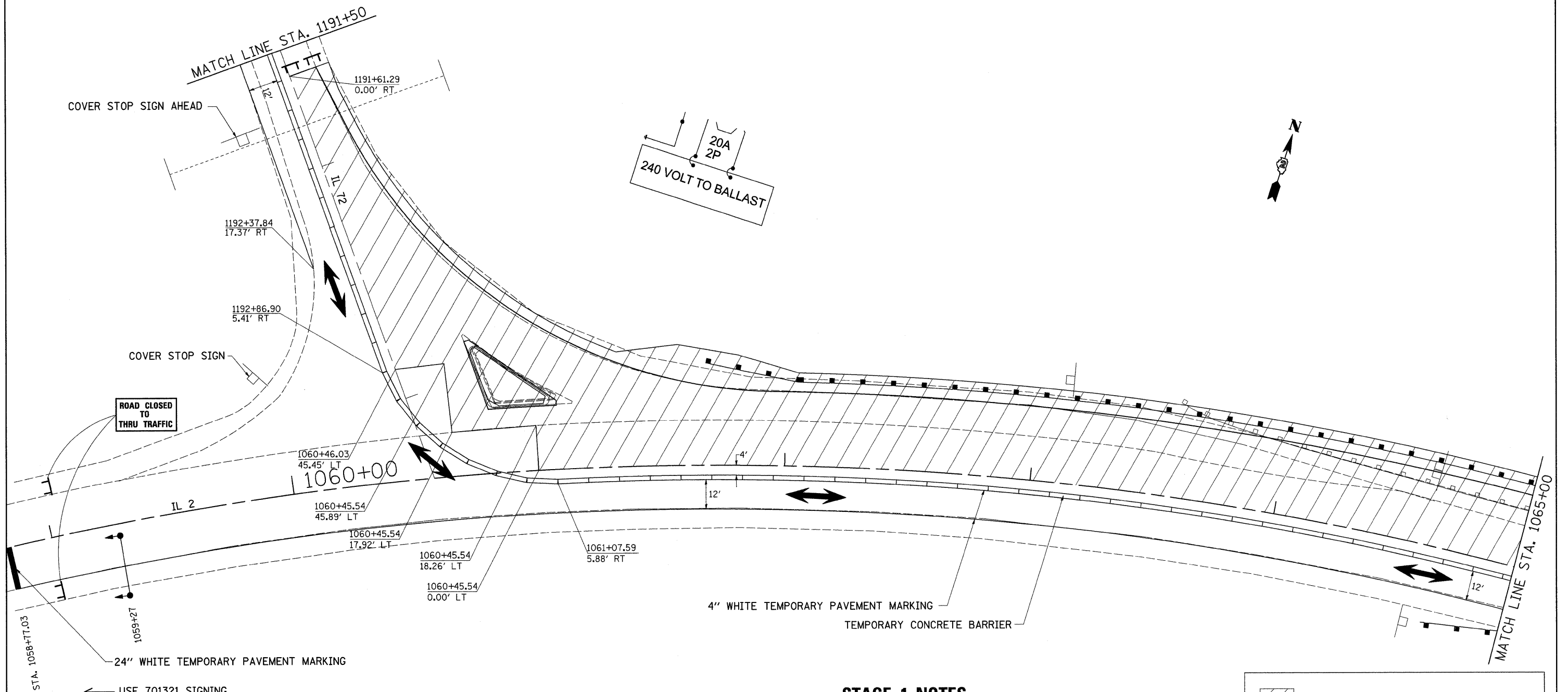
### STAGE 1 NOTES

- EXISTING RAISED ISLAND AT (SW QUAD) OF IL 72 WILL NEED TO BE REMOVED AND FILLED IN WITH INCIDENTAL HMA SURFACING PRIOR TO SETUP STAGE 1-USING STD. 701201.
- USE STANDARD 701321. SEE STANDARDS FOR ADDITIONAL SIGNING AND DEVICES NOT SHOWN IN DETAILS.
- REMOVAL OF GUARDRAIL @ LT STA. 1063+58 TO 1068+26.
- REMOVAL OF EXISTING PAVEMENT FROM NE TO QUAD IL 72 TO MILL CREEK BRIDGE UP TO THE STAGE CONSTRUCTION LINE.
- CONSTRUCT SUB-BASE GRANULAR MATERIAL, TYPE "A"
- CONSTRUCT PCC PAVEMENT & (JOINTED) & PCC SHOULDERS
- INSTALL STEEL PLATE BEAM GUARDRAIL, TYPE A LT STA. 1061+68 TO 1068+14.



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE 1</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cr:\pwork\pwidot\GRANTPM\dms31213\06628stg.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			742	37R-4	OGLE	867	153	
PLOT DATE = Tue Mar 30 11:22:26 2010	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64E17					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

# STAGE 1



### STAGE 1 NOTES

- EXISTING RAISED ISLAND AT (SW QUAD) OF IL 72 WILL NEED TO BE REMOVED AND FILLED IN WITH INCIDENTAL HMA SURFACING PRIOR TO SETUP STAGE 1-USING STD. 701201.
- USE STANDARD 701321. SEE STANDARDS FOR ADDITIONAL SIGNING AND DEVICES NOT SHOWN IN DETAILS.
- REMOVAL OF GUARDRAIL @ LT STA. 1063+58 TO 1068+26.
- REMOVAL OF EXISTING PAVEMENT FROM NE TO QUAD IL 72 TO MILL CREEK BRIDGE UP TO THE STAGE CONSTRUCTION LINE.
- CONSTRUCT SUB-BASE GRANULAR MATERIAL, TYPE "A"
- CONSTRUCT PCC PAVEMENT & (JOINTED) & PCC SHOULDERS
- INSTALL STEEL PLATE BEAM GUARDRAIL, TYPE A LT STA. 1061+68 TO 1068+14.

	= WORK AREA
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
es\pwwork\pwidot\GRANTPM\dms31213\d06688stg.dgn		DRAWN -	REVISED -
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Tue Mar 30 11:22:26 2010		DATE -	REVISED -

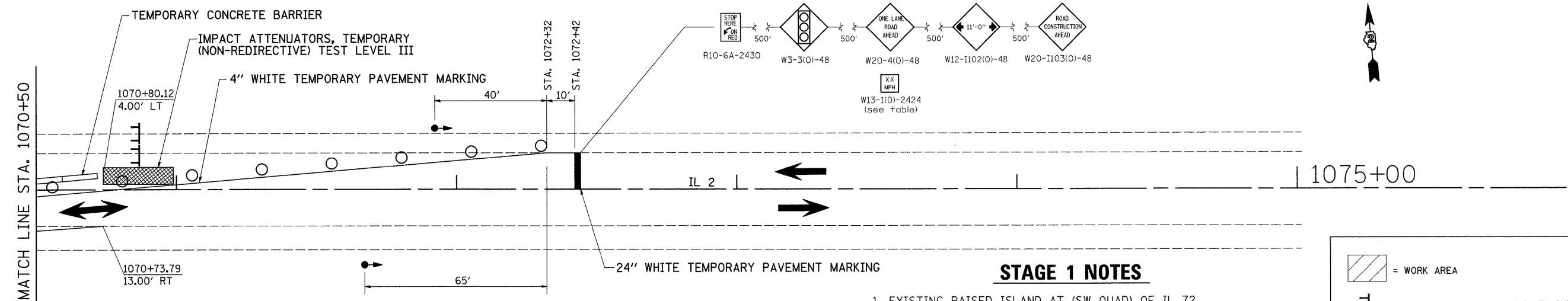
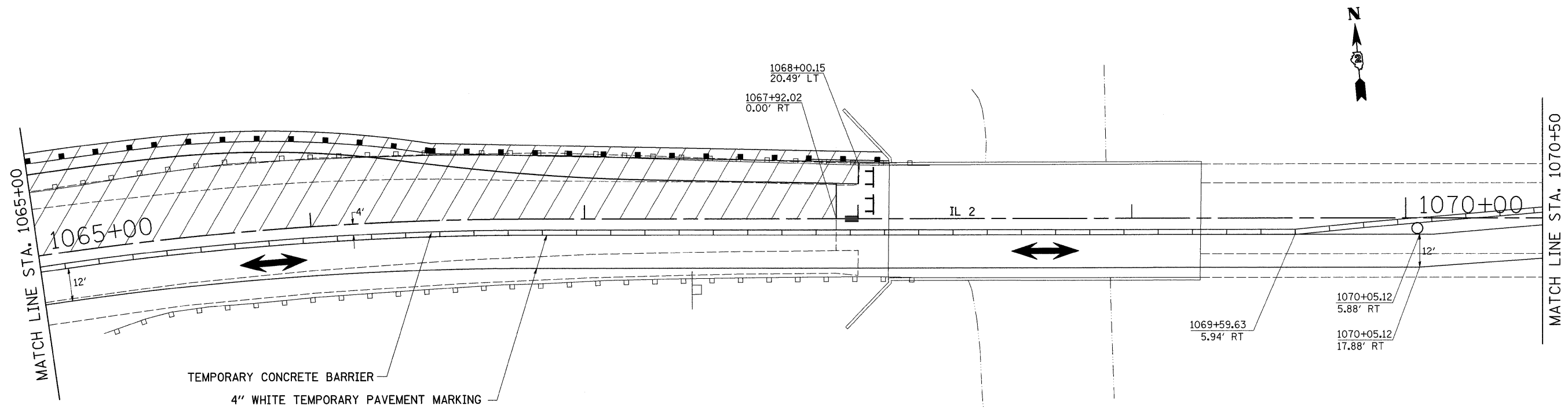
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

## STAGE 1

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	154
CONTRACT NO. 64E17			ILLINOIS FED. AID PROJECT	

# STAGE 1



### STAGE 1 NOTES

- EXISTING RAISED ISLAND AT (SW QUAD) OF IL 72 WILL NEED TO BE REMOVED AND FILLED IN WITH INCIDENTAL HMA SURFACING PRIOR TO SETUP STAGE 1-USING STD. 701201.
- USE STANDARD 701321. SEE STANDARDS FOR ADDITIONAL SIGNING AND DEVICES NOT SHOWN IN DETAILS.
- REMOVAL OF GUARDRAIL @ LT STA.
- REMOVAL OF EXISTING PAVEMENT FROM NE TO QUAD IL 72 TO MILL CREEK BRIDGE UP TO THE STAGE CONSTRUCTION LINE.
- CONSTRUCT SUB-BASE GRANULAR MATERIAL, TYPE "A"
- CONSTRUCT PCC PAVEMENT & (JOINTED) & PCC SHOULDERS
- INSTALL STEEL PLATE BEAM GUARDRAIL, TYPE A RT.

	= WORK AREA
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

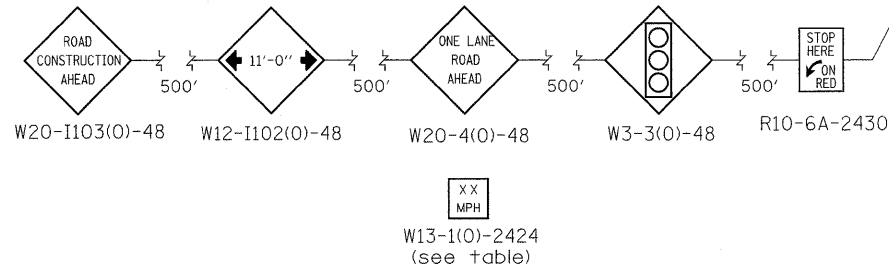
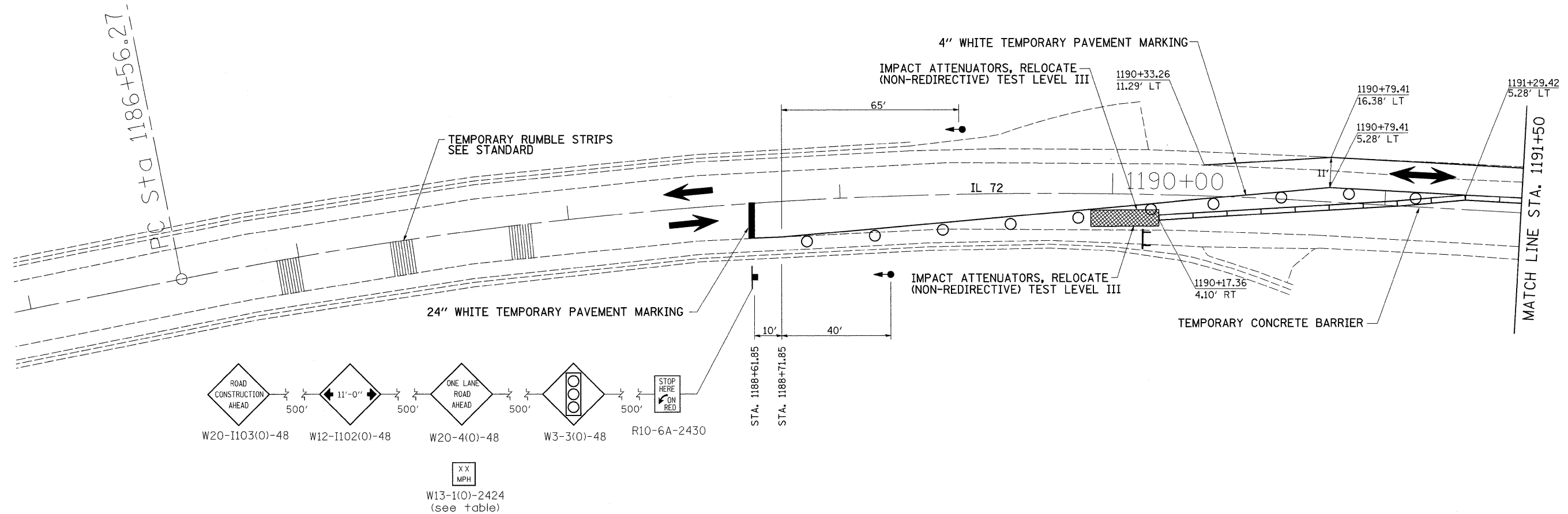
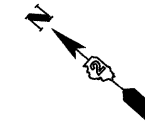
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
ct:\pwwork\VPWIDOT\GRANTPM\dms31213\d06628stg.dgn		DRAWN -	REVISED -
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Tue Mar 30 11:22:27 2010		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

## STAGE 1

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	F.A. RTE. 742	SECTION 3TR-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 155
						CONTRACT NO. 64E17	
ILLINOIS FED. AID PROJECT							

# STAGE 2



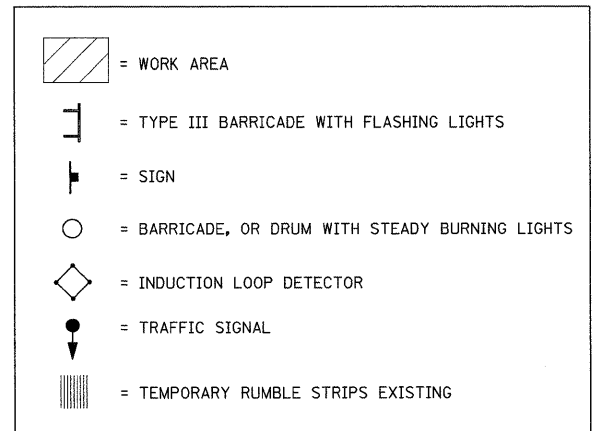
### STAGE 2 NOTES

1. USE STANDARD 701321. SEE STANDARDS FOR ADDITIONAL SIGNING AND DEVICES NOT SHOWN IN DETAILS.
2. REMOVAL OF GUARDRAIL @ RT STA. 1065+20 TO STA. 1068+20.
3. REMOVAL OF EXISTING PAVEMENT FROM NW QUAD IL 72 TO MILL CREEK BRIDGE.
4. CONSTRUCT SUB-BASE GRANULAR MATERIAL, TYPE "A"
5. CONSTRUCT PCC PAVEMENT (JOINTED) & PCC SHOULDERS
6. INSTALL STEEL PLATE BEAM GUARDRAIL, TYPE A RT STA. 1064+68 - 1068+13.

\* ACCESS FOR RESIDENTS ON IL 2 SOUTH TOWARD OREGON WILL BE CLOSED FOR THIS STAGE.

### STAGE 3 NOTES

1. REMOVAL OF ALL TEMPORARY PAINT PAVEMENT MARKINGS PLACED IN STAGE 2 (WORKZONE PAVEMENT MARKING REMOVAL)
2. PLACEMENT OF FINAL PAVEMENT MARKINGS IN THE RECONSTRUCTION AREA (URETHANE PAVEMENT MARKINGS) AND PREVIOUS CONFLICTING PAVEMENT MARKINGS REMOVED IN STAGE 1.



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
ca:\pwork\pwidot\GRANTPM\dms31213\d06608stg.dgn		DRAWN -	REVISED -
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Tue Mar 30 11:22:28 2010		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

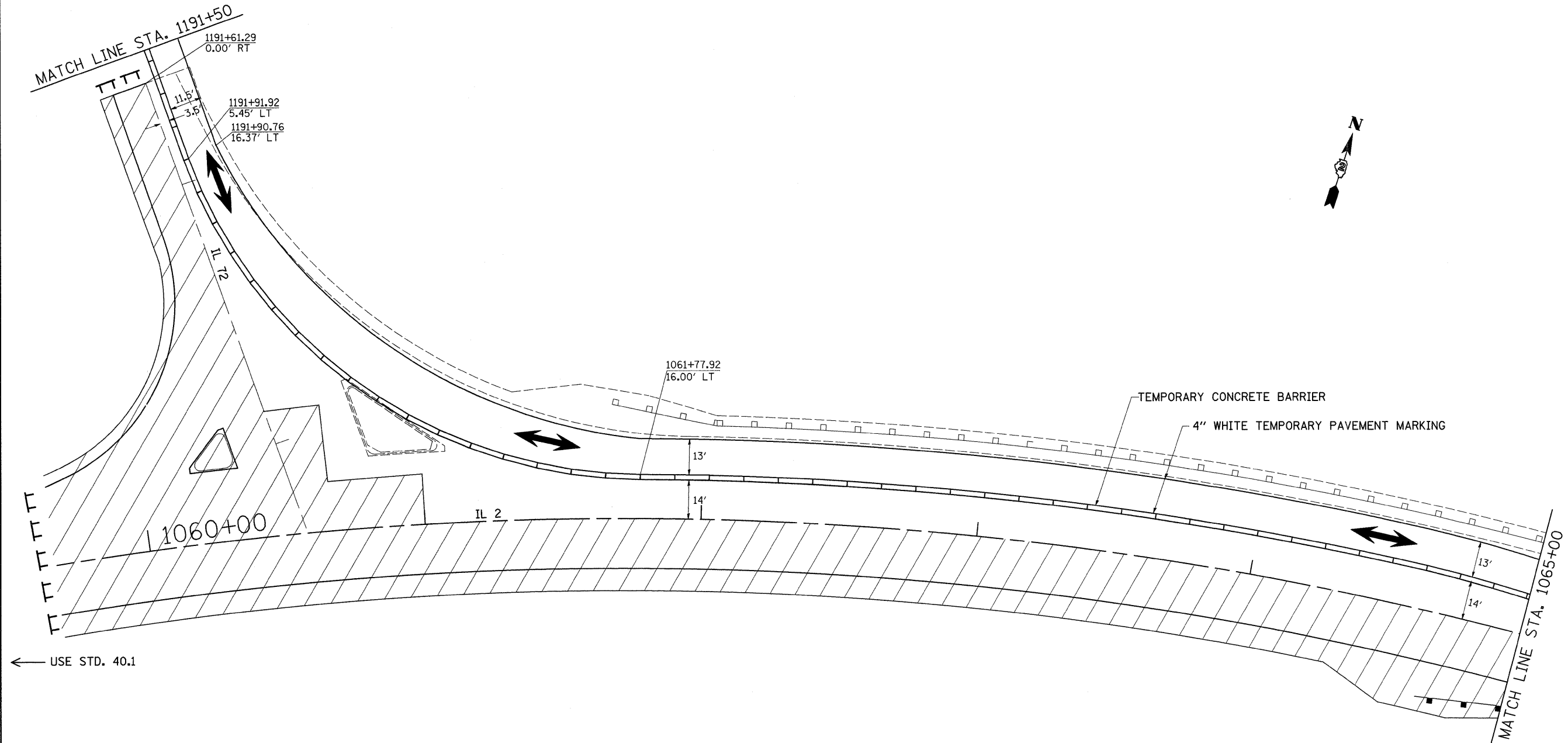
## STAGE 2

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	156
CONTRACT NO. 64E17			ILLINOIS FED. AID PROJECT	



# STAGE 2



← USE STD. 40.1

### STAGE 2 NOTES

1. USE STANDARD 701321. SEE STANDARDS FOR ADDITIONAL SIGNING AND DEVICES NOT SHOWN IN DETAILS.
2. REMOVAL OF GUARDRAIL @ RT STA. 1065+20 TO STA. 1068+20.
3. REMOVAL OF EXISTING PAVEMENT FROM NW QUAD IL 72 TO MILL CREEK BRIDGE.
4. CONSTRUCT SUB-BASE GRANULAR MATERIAL, TYPE "A"
5. CONSTRUCT PCC PAVEMENT (JOINTED) & PCC SHOULDERS
6. INSTALL STEEL PLATE BEAM GUARDRAIL, TYPE A RT STA. 1064+68 - 1068+13.

\* ACCESS FOR RESIDENTS ON IL 2 SOUTH TOWARD OREGON WILL BE CLOSED FOR THIS STAGE.

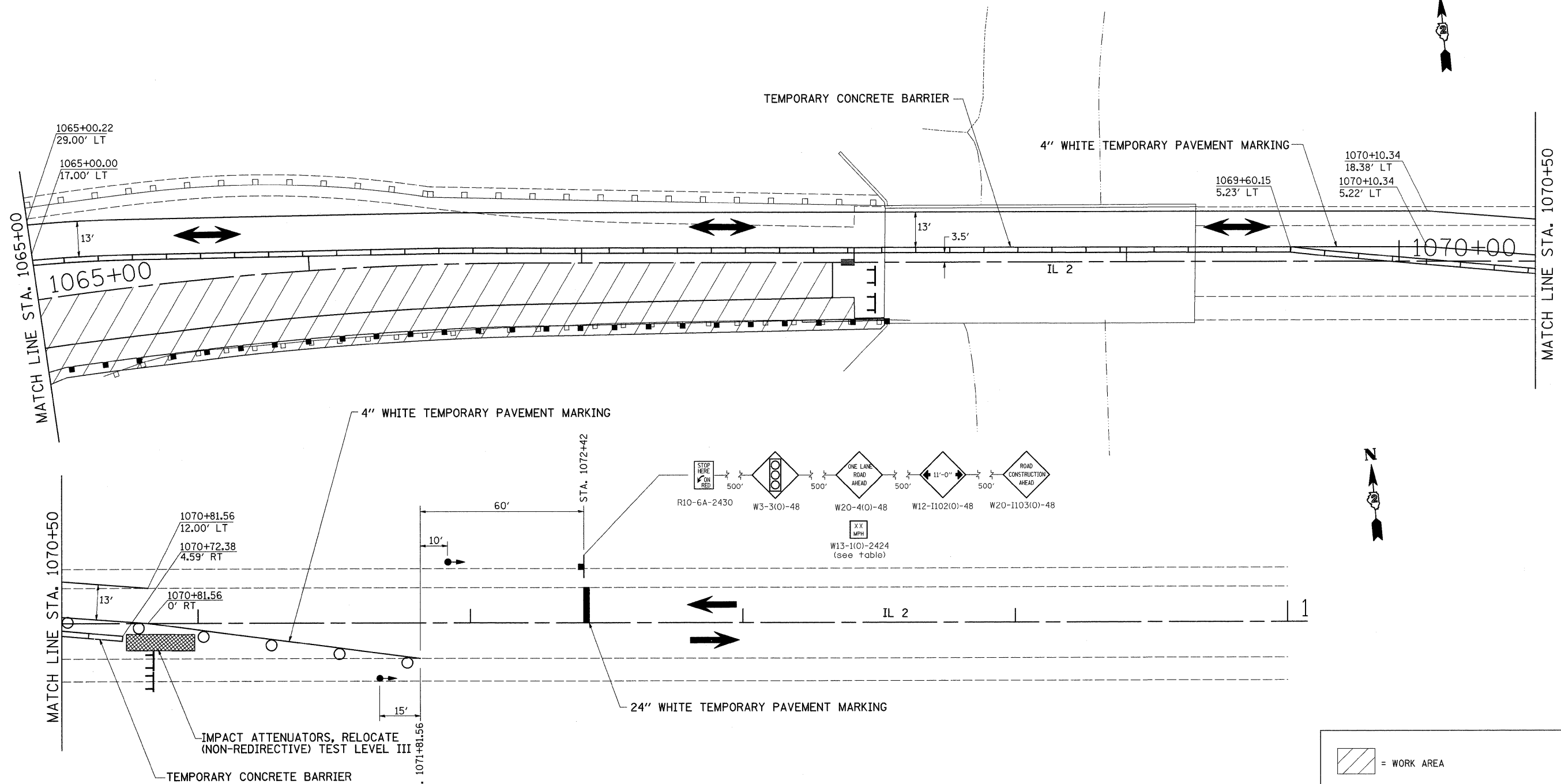
### STAGE 3 NOTES

1. REMOVAL OF ALL TEMPORARY PAINT PAVEMENT MARKINGS PLACED IN STAGE 2 (WORKZONE PAVEMENT MARKING REMOVAL)
2. PLACEMENT OF FINAL PAVEMENT MARKINGS IN THE RECONSTRUCTION AREA (URETHANE PAVEMENT MARKINGS) AND PREVIOUS CONFLICTING PAVEMENT MARKINGS REMOVED IN STAGE 1.

	= WORK AREA
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE 2</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
os:\pwork\VPWIDOT\GRANTPM\dms31213\d06628etg.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -					742	37R-4	OGLE	867	157
PLOT DATE = Tue Mar 30 11:22:29 2010	DATE -	CHECKED -	REVISED -					CONTRACT NO. 64E17				
								ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.				

# STAGE 2



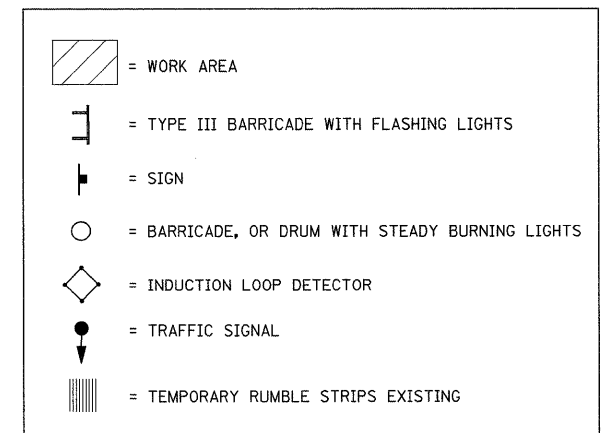
## STAGE 2 NOTES

1. USE STANDARD 701321. SEE STANDARDS FOR ADDITIONAL SIGNING AND DEVICES NOT SHOWN IN DETAILS.
2. REMOVAL OF GUARDRAIL @ RT STA. 1065+20 TO STA. 1068+20.
3. REMOVAL OF EXISTING PAVEMENT FROM NW QUAD IL 72 TO MILL CREEK BRIDGE.
4. CONSTRUCT SUB-BASE GRANULAR MATERIAL, TYPE "A"
5. CONSTRUCT PCC PAVEMENT (JOINTED) & PCC SHOULDERS
6. INSTALL STEEL PLATE BEAM GUARDRAIL, TYPE A RT STA. 1064+68 - 1068+13.

\* ACCESS FOR RESIDENTS ON IL 2 SOUTH TOWARD OREGON WILL BE CLOSED FOR THIS STAGE.

## STAGE 3 NOTES

1. REMOVAL OF ALL TEMPORARY PAINT PAVEMENT MARKINGS PLACED IN STAGE 2 (WORKZONE PAVEMENT MARKING REMOVAL)
2. PLACEMENT OF FINAL PAVEMENT MARKINGS IN THE RECONSTRUCTION AREA (URETHANE PAVEMENT MARKINGS) AND PREVIOUS CONFLICTING PAVEMENT MARKINGS REMOVED IN STAGE 1.



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE 2</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw\work\VP\WIDOT\GRANTPM\dms31213\006628stg.dgn		DRAWN -	REVISED -		742	37R-4	OGLE	867	158			
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 64E17							
PLOT DATE = Tue Mar 30 11:22:30 2010		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.				





# DROP BOX NO. 4

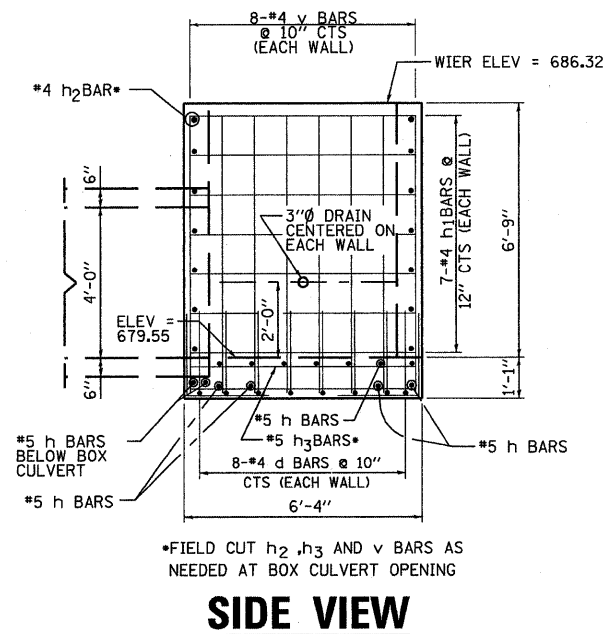
SN 071-1204 - LT STA. 747 + 50 (IL RTE 2)  
CULVERT @ 0° SKEW TO RDWY

## BILL OF MATERIALS (FOR INFORMATION ONLY)

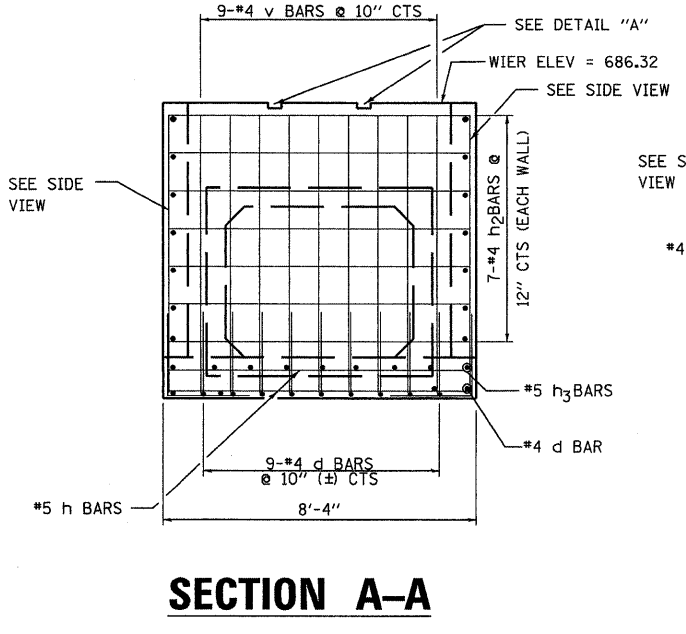
BAR	SIZE	NO.	LENGTH	SHAPE
d	#4	29	4'-4"	L
h	#5	13	8'-1"	—
h <sub>1</sub>	#4	14	6'-1"	—
h <sub>2</sub>	#4	10	8'-1"	—
h <sub>3</sub>	#5	15	6'-1"	—
u	#4	7	4'-5"	U
v	#4	27	7'-5"	—

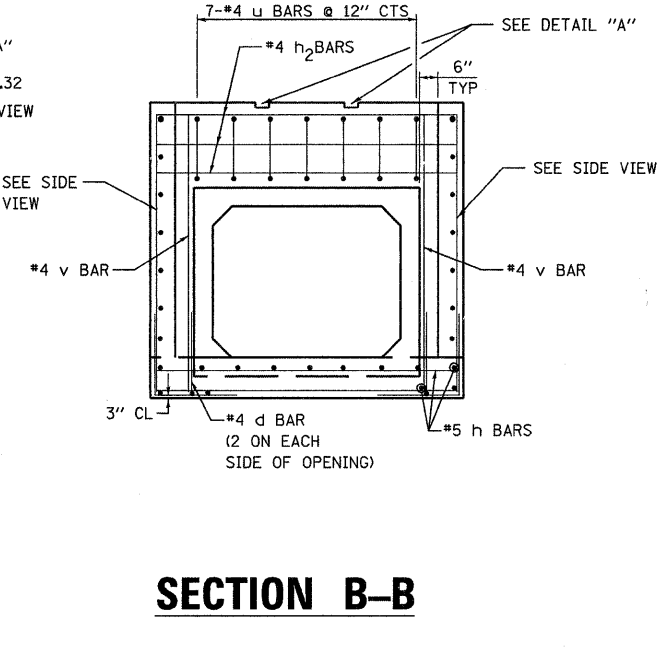
DESCRIPTION	UNIT	QTY
CONCRETE BOX CULVERTS	CU YD	6.3
REINFORCEMENT BARS	LB	550
3 1/2" I.D. GALV STEEL PIPE	FOOT	13'-4"
3 1/2" GALV PIPE CAPS	EACH	4
1/4" GALV. STEEL PLATE (9" NOMINAL)	EACH	4
1/2" X 4" X 14" GALV. STEEL PLATE	EACH	4
EXPANSION BOLTS 1/2"Ø	EACH	8



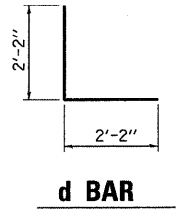
**SIDE VIEW**



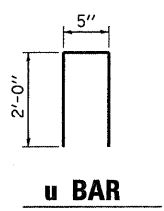
**SECTION A-A**



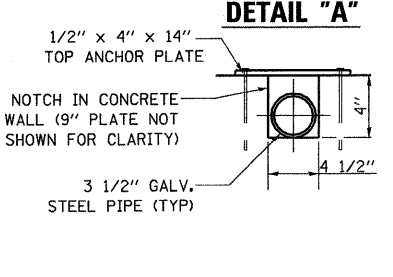
**SECTION B-B**



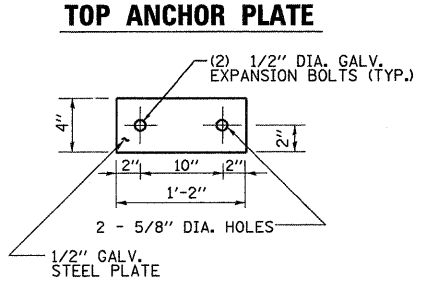
**d BAR**



**u BAR**



**DETAIL "A"**



**TOP ANCHOR PLATE**

### GENERAL NOTES:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "EACH" FOR **DROP BOX NO. 4**. THIS WORK SHALL INCLUDE THE GALVANIZED PIPE, ANCHOR PLATES, & CAPS, CONCRETE BOX CULVERTS, REINFORCEMENT BARS, BOLTS, NUTS, WASHERS, INSTALLATION ON THE PROPOSED CULVERT, PIPE GRATING, EARTH EXCAVATION AND DIVERTING WATER WHERE REQUIRED, AND ANY NECESSARY GRADING TO FIT THE DROP BOX, AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

EXPOSED EDGES SHALL BE BEVELED 3/4".

SLOPE FLOW LINE FOR DROP BOX NO. 4 IS THE SAME RATE AS THE FLOW LINE OF THE PIPE.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRACTOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-270 GRADE 36 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERTING THE WATER FLOW FROM THE CONSTRUCTION AREA USING A METHOD MEETING THE APPROVAL OF THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 503 OF THE STANDARD SPECIFICATION. COST INCLUDED WITH "DROP BOX NO. 4."

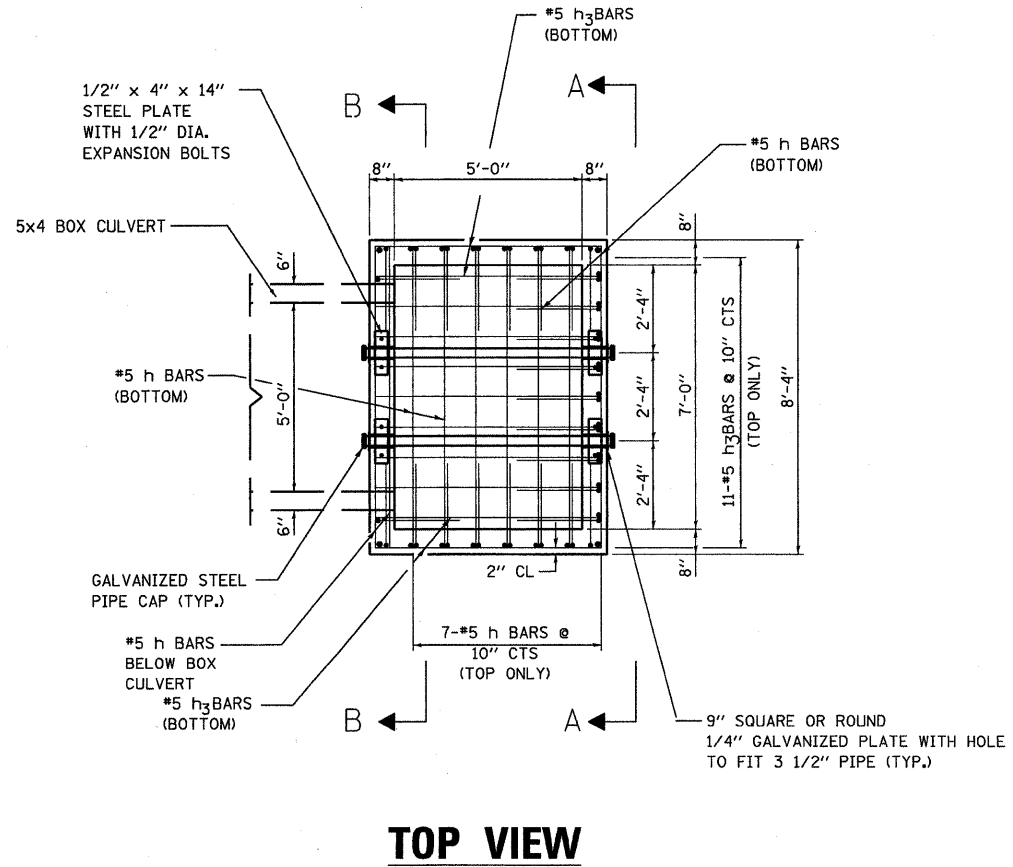
SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

SEE CROSS SECTION SHEET FOR MORE INFORMATION INCLUDING INVERT ELEVATIONS.

### DESIGN STRESSES

**f<sub>y</sub> = 60,000 psi**

**f'<sub>c</sub> = 3,500 psi**



**TOP VIEW**



David F. Maxwell, S.E.  
Date: 3/3/10  
My registration expires November 30, 2010.

FILE NAME =	USER NAME =	DESIGNED - GSS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DROP BOX NO. 4</b>	F.A.P. RTE. 742	SECTION 37 R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 161		
PLOT SCALE =	CHECKED - CTH	REVISED -	SCALE:			SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 64E17		
PLOT DATE = 3/2/2010	DATE - 3/2/2010	REVISED -										

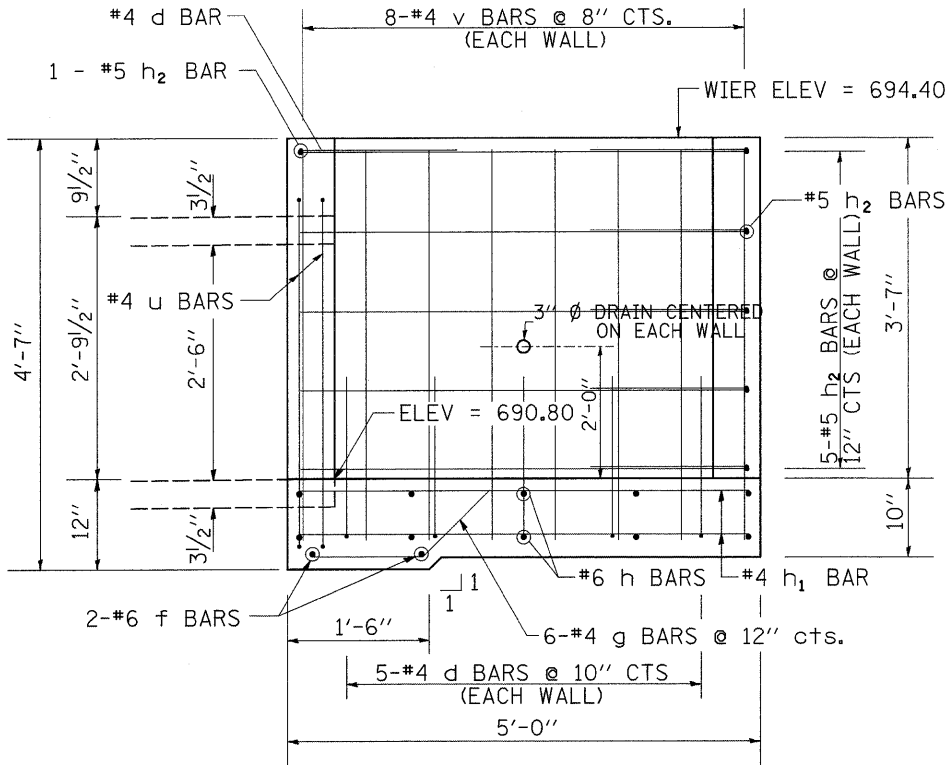
# DROP BOX NO. 5

## STA. 792 + 26

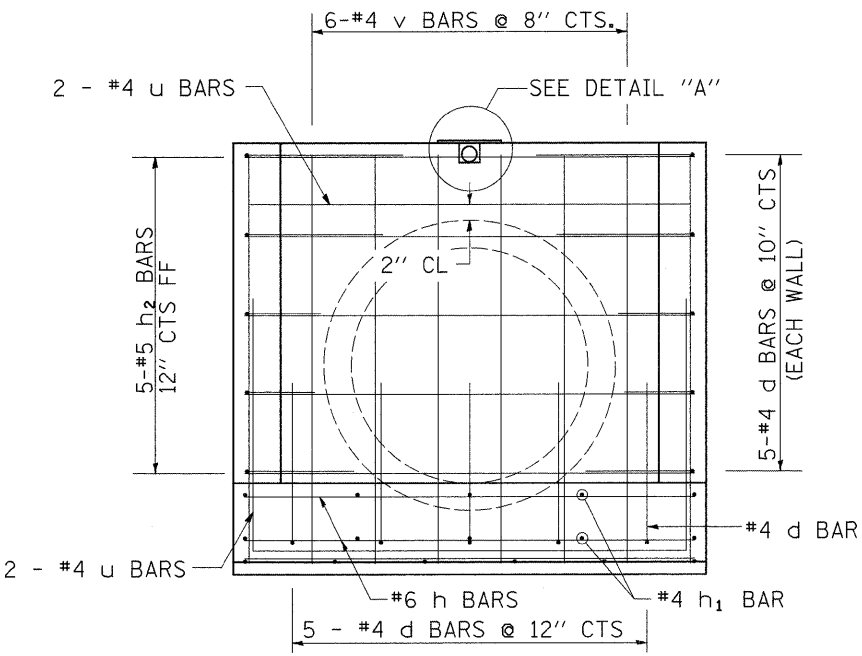
**BILL OF MATERIALS**  
(For Information Only)

BAR	NUMBER	SIZE	LENGTH	SHAPE
d	27	#4	3'-4"	└
f	2	#6	4'-9"	—
g	6	#4	2'-2"	└
h	10	#6	4'-9"	—
h1	10	#4	4'-9"	—
h2	16	#5	4'-9"	—
v	24	#4	4'-2"	—
u	4	#4	10'-0"	└

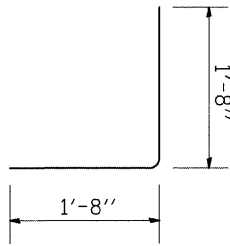
DESCRIPTION	UNIT	QTY.
Concrete Box Culverts	CuYd	1.90
Reinforcement Bars	LBS	360
3" I.D. Galv Steel Pipe	1 @	5'-4"
1/2" Dia. Galv. Expansion Bolts	EACH	4
3" Galv Pipe Caps	EACH	2
1/4" Galv Steel Plate (9" Nominal)	EACH	2
1/2"x4"x14" Galv Steel Plate	EACH	2



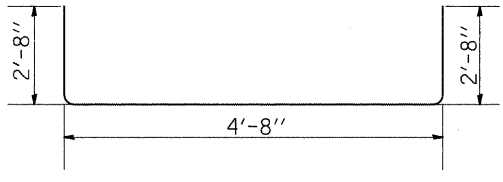
**SIDEWALLS**



**BACK WALL**



**d BARS**



**u BARS**

**GENERAL NOTES:**

This work shall be paid for at the contract unit price per Each for Drop Box No. 5.

This work shall be done in accordance with the applicable portions of sections 503, 508, AND 540 of the Standard Specifications.

Contractor shall field verify Galvanized pipe lengths.

Exposed edges shall be beveled 3/4".

The contract unit price "EACH" for Drop Box No. 5 shall include the Bolts, Galvanized pipe, Nuts, Washers, and pipe caps. Steel Plates, Reinforcement Bars, and Concrete Box Culverts.

Contractor shall provide galvanizing for holes, threads, etc. for field-fabricated grate assembly.

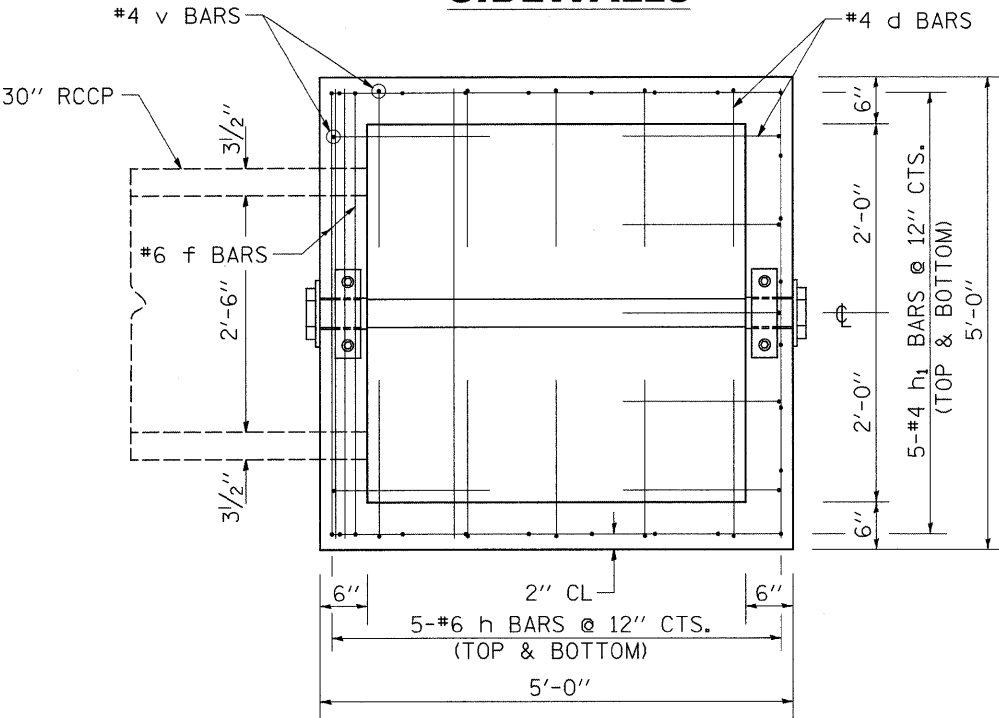
The cost of earth excavation, where required, and necessary grading to fit the Inlet as shown in the cross-sections or to the slope is included in the cost of Drop Box No. 5.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.

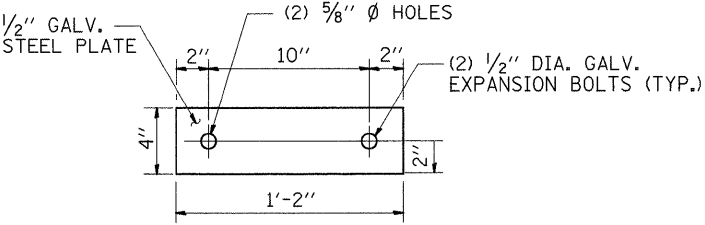
Steel plates shall conform to AASHTO M-270 Grade 36 and shall be galvanized conforming to AASHTO M-111. Bolts, Nuts, and Washers shall be in accordance with article 505 of the Standard Specifications and shall be galvanized.

See Plan and Profile Sheet for more information.

See Cross Section Sheet for more information.

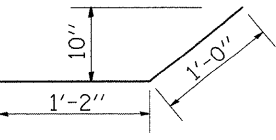


**BOTTOM SLAB**

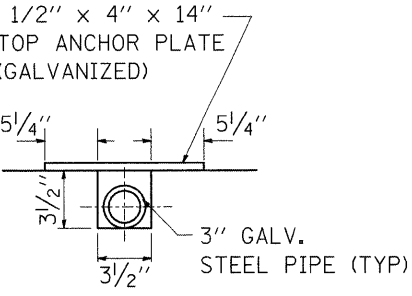


**TOP ANCHOR PLATE**

**DETAIL "A"**



**g BARS**

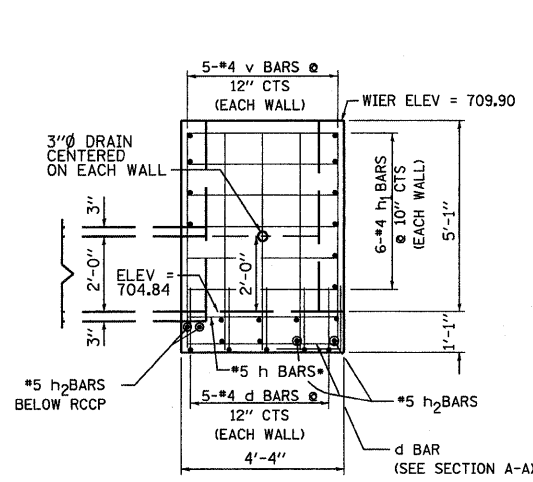


# DROP BOX NO. 6

SN 071-1215 - LT STA. 942+31 (IL RTE 2)  
CULVERT @ 0° SKEW TO RDWY

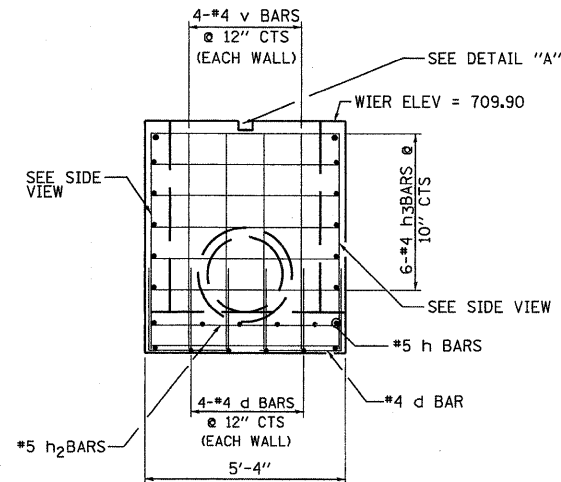
## BILL OF MATERIALS (FOR INFORMATION ONLY)

BAR	SIZE	NO.	LENGTH	SHAPE
d	#4	16	3'-4"	L
h	#5	10	4'-0"	—
h <sub>1</sub>	#4	12	4'-0"	—
h <sub>2</sub>	#5	10	5'-0"	—
h <sub>3</sub>	#4	10	5'-0"	—
h <sub>4</sub>	#5	4	2'-10"	—
v	#4	18	5'-10"	—
DESCRIPTION			UNIT	QTY
CONCRETE BOX CULVERTS			CU YD	2.9
REINFORCEMENT BARS			LB	280
3 1/2" I.D. GALV STEEL PIPE			FOOT	4'-8"
3 1/2" GALV PIPE CAPS			EACH	2
1/4" GALV. STEEL PLATE (9" NOMINAL)			EACH	2
1/2" X 4" X 14" GALV. STEEL PLATE			EACH	2
EXPANSION BOLTS 1/2"Ø			EACH	4

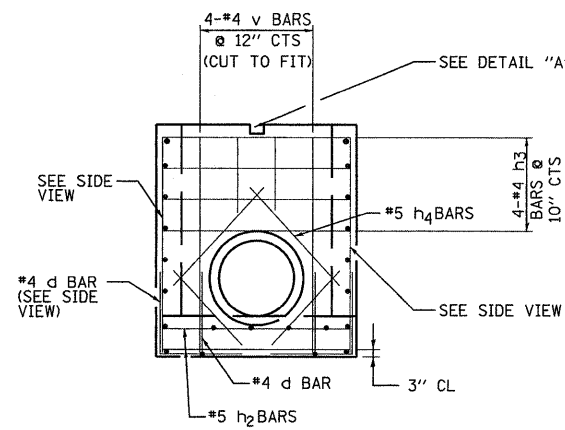


**SIDE VIEW**

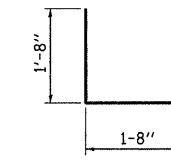
\*FIELD CUT h BARS, d BARS, AND v BARS AS NEEDED AT RCCP OPENING



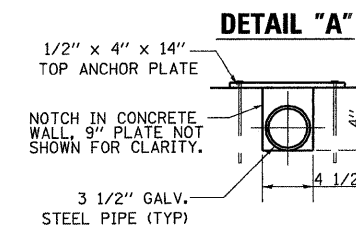
**SECTION A-A**



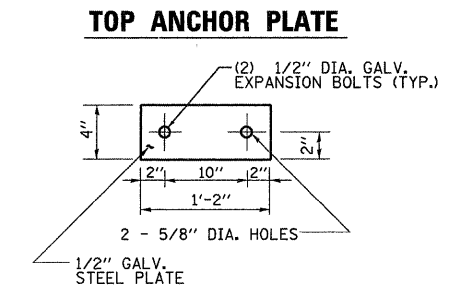
**SECTION B-B**



**d BAR**



**DETAIL "A"**



**TOP ANCHOR PLATE**

### GENERAL NOTES:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "EACH" FOR **DROP BOX NO. 6**. THIS WORK SHALL INCLUDE THE GALVANIZED PIPE, ANCHOR PLATES, & CAPS, CONCRETE BOX CULVERTS, REINFORCEMENT BARS, BOLTS, NUTS, WASHERS, INSTALLATION ON THE PROPOSED CULVERT, PIPE GRATING, EARTH EXCAVATION AND DIVERTING WATER WHERE REQUIRED, AND ANY NECESSARY GRADING TO FIT THE DROP BOX, AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

EXPOSED EDGES SHALL BE BEVELED 3/4".

SLOPE FLOW LINE FOR DROP BOX NO. 6 IS THE SAME RATE AS THE FLOW LINE OF THE PIPE.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRACTOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-270 GRADE 36 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERTING THE WATER FLOW FROM THE CONSTRUCTION AREA USING A METHOD MEETING THE APPROVAL OF THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 503 OF THE STANDARD SPECIFICATION. COST INCLUDED WITH "DROP BOX NO. 6."

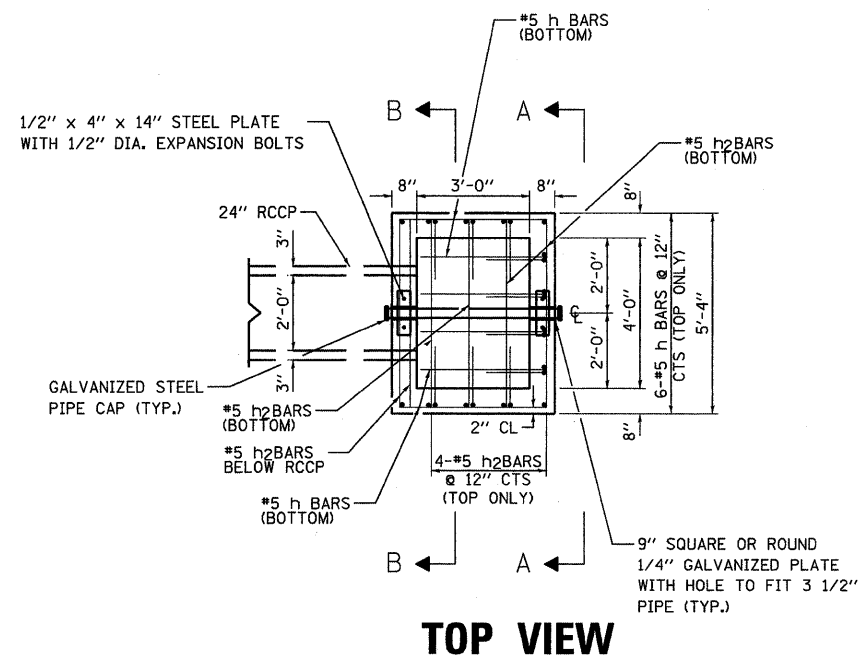
SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

SEE CROSS SECTION SHEET FOR MORE INFORMATION INCLUDING INVERT ELEVATIONS.

### DESIGN STRESSES

**f<sub>y</sub> = 60,000 psi**

**f'<sub>c</sub> = 3,500 psi**



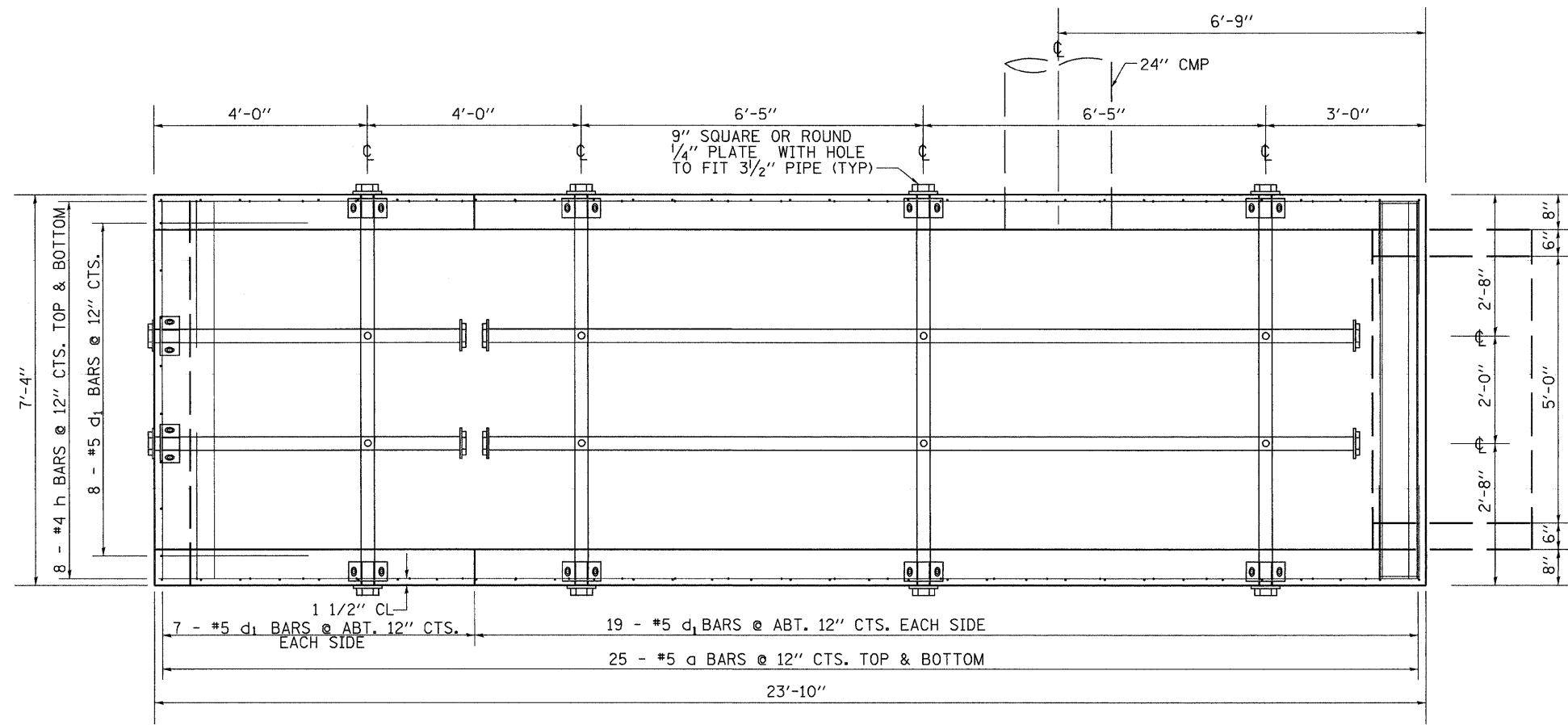
**TOP VIEW**



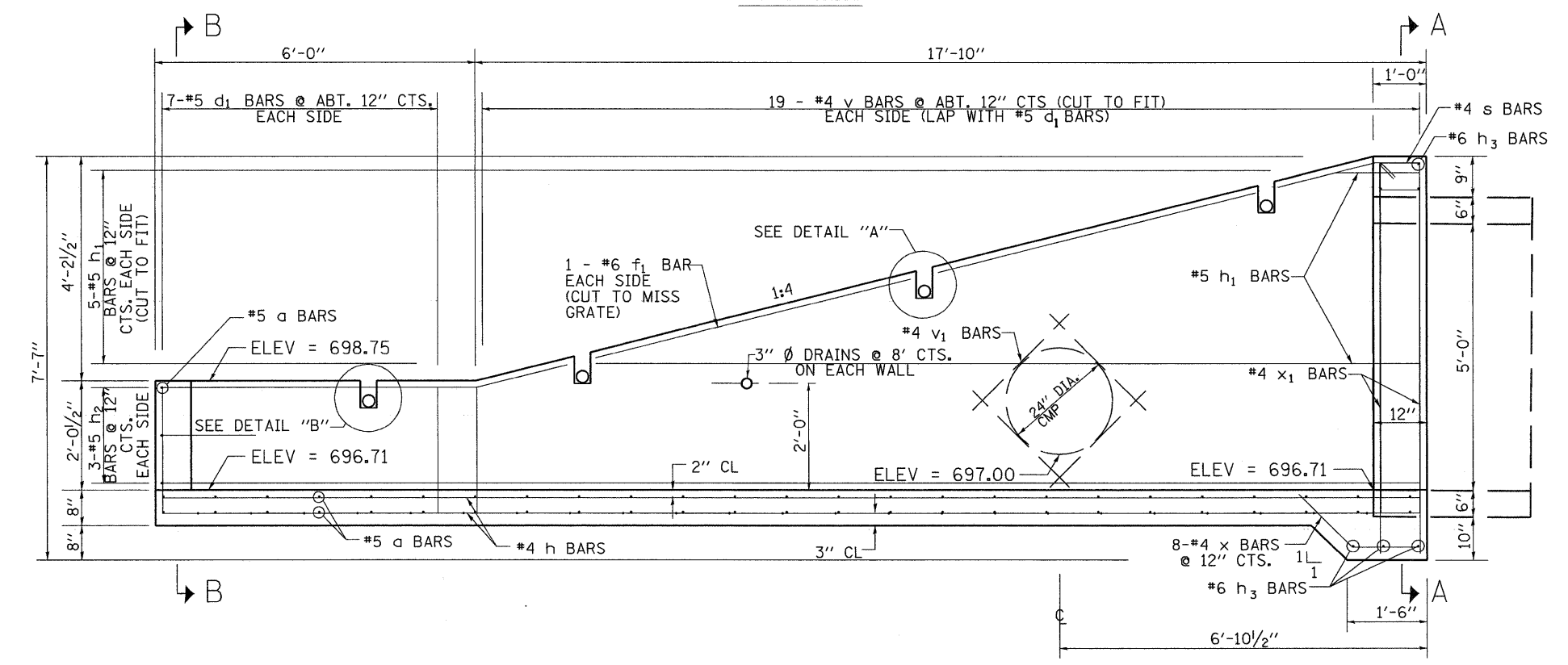
David F. Maxwell, S.E.  
Reg. No. 081-005455  
Date: 3/3/10  
My registration expires November 30, 2010.

FILE NAME =	USER NAME =	DESIGNED - GSS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DROP BOX NO. 6</b>	F.A.P. RTE. 742	SECTION 37 R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 163
PLOT SCALE =	CHECKED - CTH	REVISED -	SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 64E17				
PLOT DATE = 3/2/2010	DATE - 3/2/2010	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

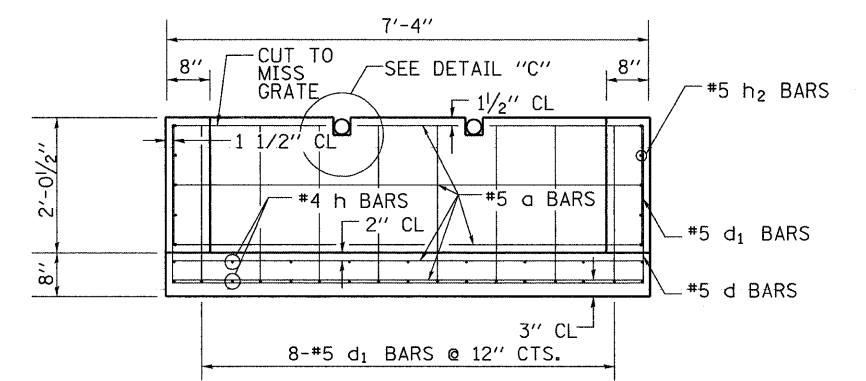
# DROP BOX NO. 7 STA. 964 + 00



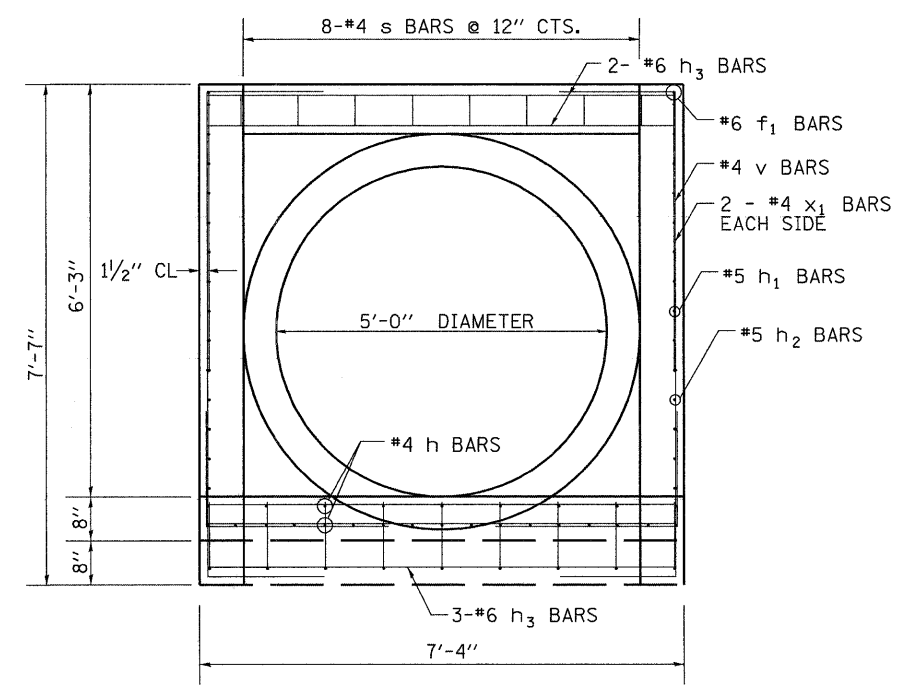
**PLAN VIEW**



**LONGITUDINAL SECTION**



**SECTION B-B**



**SECTION A-A**

	David F. Maxwell, S.E.      Reg. No. 081-005455 Date: 3/3/10 My registration expires November 30, 2010.

FILE NAME =	USER NAME = chersn	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DROP BOX NO. 7</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
C:\Documents and Settings\kbrahm\Desktop\d08608bulvdetail.dgn	PLOT SCALE = 50.1500' / IN.	DRAWN -	REVISED -			742	37R-4	OGLE	867	164	
PLOT DATE = 6/17/2010	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64E17					
		DATE -	REVISED -			SCALE:	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

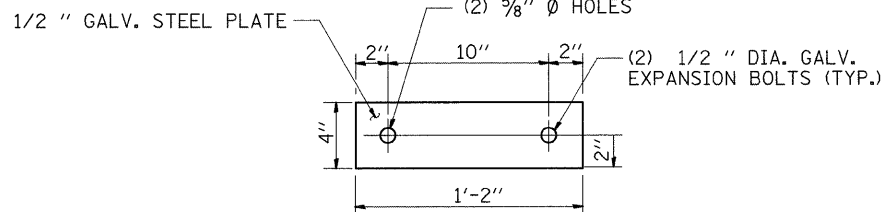
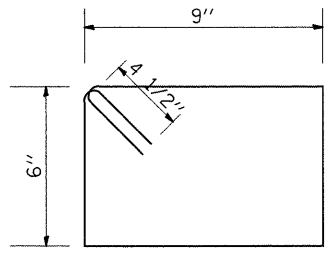
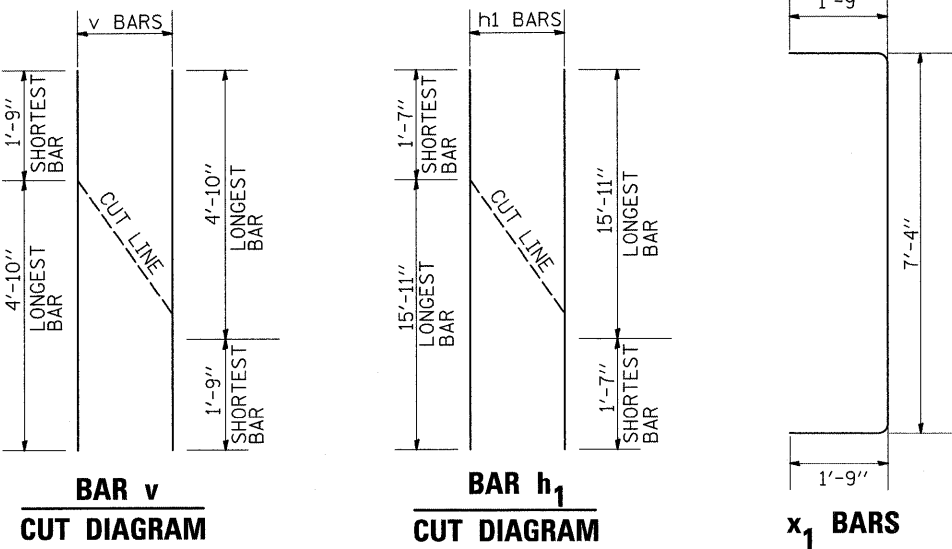
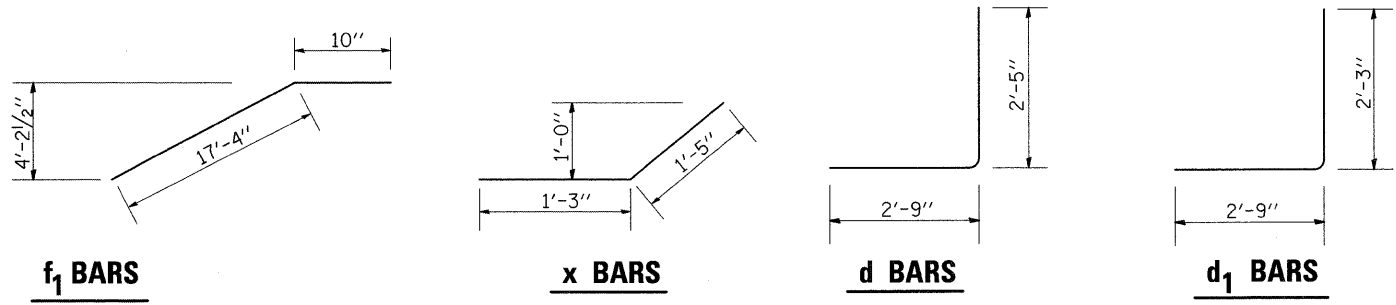


# DROP BOX NO. 7 STA. 964 + 00

**BILL OF MATERIALS**  
(For Information Only)

BAR	NUMBER	SIZE	LENGTH	SHAPE
a	53	#5	7'-1"	—
d	38	#5	5'-2"	└
d <sub>1</sub>	22	#5	5'-0"	└
h	16	#4	23'-7"	—
h <sub>1</sub>	5	#5	17'-6"	—
h <sub>2</sub>	6	#5	23'-7"	—
h <sub>3</sub>	7	#6	7'-1"	—
f <sub>1</sub>	2	#6	18'-2"	└
s	8	#4	3'-3"	└
v	19	#4	6'-7"	—
v <sub>1</sub>	4	#4	2'-4"	—
x	8	#4	2'-8"	└
x <sub>1</sub>	4	#4	10'-10"	└

DESCRIPTION	UNIT	QTY.
Concrete Box Culverts	CuYd	11.3
Reinforcement Bars	LBS	1,480
3/2" I.D. Galv Steel Pipe	2 @	17'-0"
	2 @	6'-0"
	4 @	7'-8"
1/2" Dia. Galv. Expansion Bolts	EACH	20
3/2" Galv Pipe Caps	EACH	16
1/4" Galv Steel Plate (9" Nominal)	EACH	10
1/2"x4"x14" Galv Steel Plate	EACH	10
5/8"x9" Galv Steel Bolts	EACH	8



**GENERAL NOTES:**

This work shall be paid for at the contract unit price per Each for Drop Box No. 7.

This work shall be done in accordance with the applicable portions of sections 503, 508, AND 540 of the Standard Specifications.

Contractor shall field verify Galvanized pipe lengths.

Exposed edges shall be beveled 3/4".

The contract unit price "EACH" for Drop Box No. 7 shall include the Bolts, Galvanized pipe, Nuts, Washers, and pipe caps. Steel Plates, Reinforcement Bars, and Concrete Box Culverts.

Contractor shall provide galvanizing for holes, threads, etc. for field-fabricated grate assembly.

The cost of earth excavation, where required, and necessary grading to fit the inlet as shown in the cross-sections or to the slope is included in the cost of Drop Box No. 7.

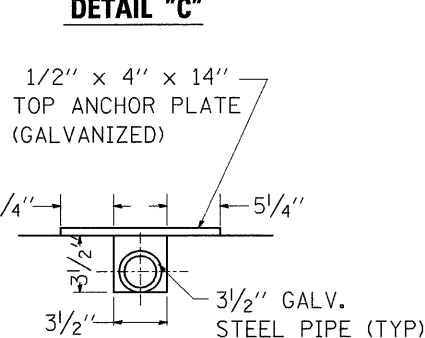
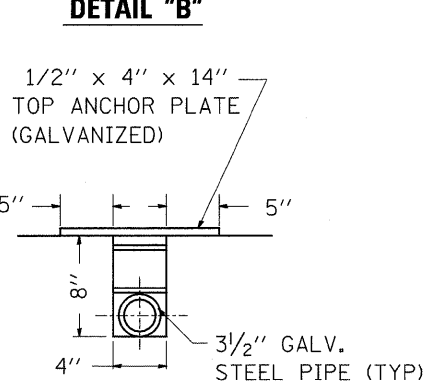
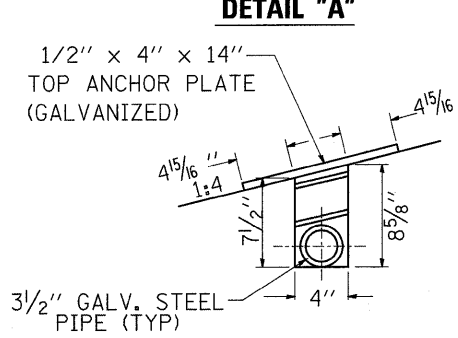
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.

Steel plates shall conform to AASHTO M-270 Grade 36 and shall be galvanized conforming to AASHTO M-111.

Bolts, Nuts, and Washers shall be in accordance with article 505 of the Standard Specifications and shall be galvanized.

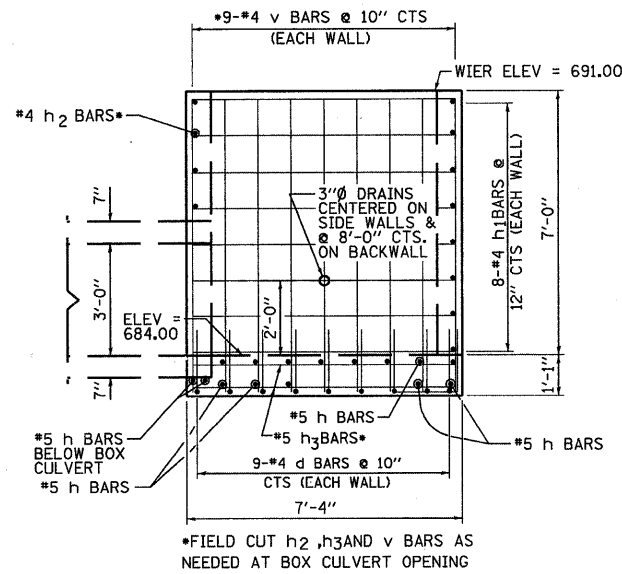
See Plan and Profile Sheet for more information.

See Cross Section Sheet for more information.

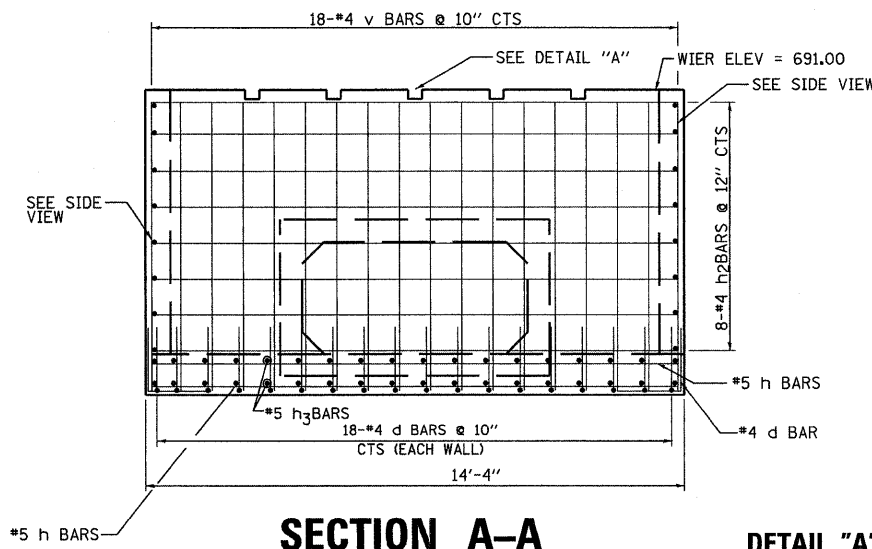


# DROP BOX NO. 8

## SN 071-1136 - LT STA. 974+38 (IL RTE 2)

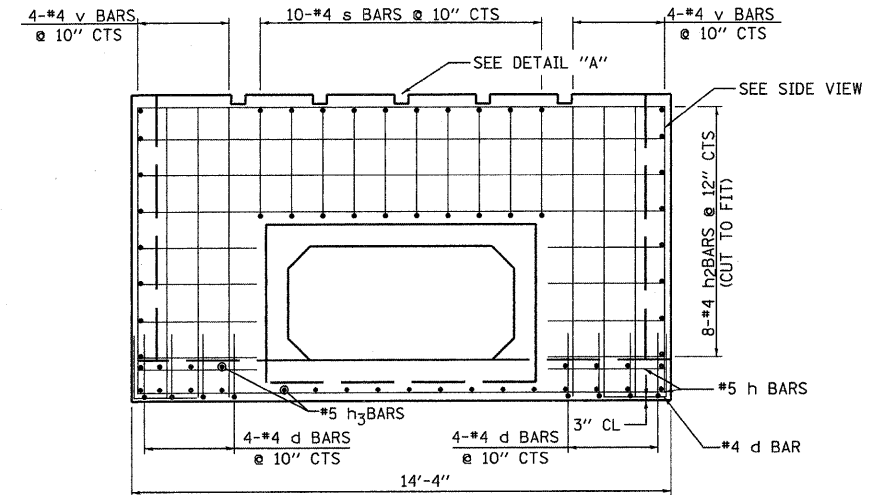
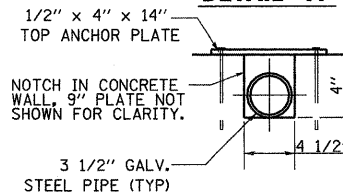


**SIDE VIEW**



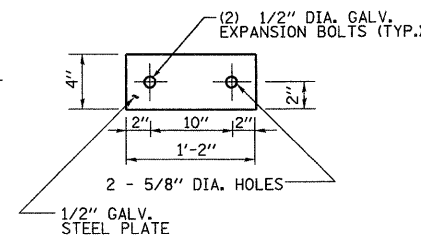
**SECTION A-A**

**DETAIL "A"**



**SECTION B-B**

**TOP ANCHOR PLATE**



**BILL OF MATERIALS**  
(FOR INFORMATION ONLY)

BAR	SIZE	NO.	LENGTH	SHAPE
d	#4	44	4'-4"	L
h	#5	13	14'-0"	—
h <sub>1</sub>	#4	16	7'-0"	—
h <sub>2</sub>	#4	16	14'-0"	—
h <sub>3</sub>	#5	34	14'-0"	—
s	#4	10	7'-7"	U
v	#4	44	7'-9"	—
DESCRIPTION			UNIT	QTY
CONCRETE BOX CULVERTS			CU YD	11.0
REINFORCEMENT BARS			LB	1320
3 1/2" I.D. GALV STEEL PIPE			FOOT	38'-4"
3 1/2" GALV PIPE CAPS			EACH	10
1/4" GALV. STEEL PLATE (9" NOMINAL)			EACH	10
1/2" X 4" X 14" GALV. STEEL PLATE			EACH	10
EXPANSION BOLTS 1/2"Ø			EACH	20

**GENERAL NOTES:**

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "EACH" FOR **DROP BOX NO. 8**. THIS WORK SHALL INCLUDE THE GALVANIZED PIPE, ANCHOR PLATES, & CAPS, CONCRETE BOX CULVERTS, REINFORCEMENT BARS, BOLTS, NUTS, WASHERS, INSTALLATION ON THE PROPOSED CULVERT, PIPE GRATING, EARTH EXCAVATION AND DIVERTING WATER WHERE REQUIRED, AND ANY NECESSARY GRADING TO FIT THE DROP BOX, AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

EXPOSED EDGES SHALL BE BEVELED 3/4".

SLOPE FLOW LINE FOR DROP BOX NO. 8 IS THE SAME RATE AS THE FLOW LINE OF THE PIPE.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRACTOR SHALL FIELD VERIFY PIPE LENGTH.

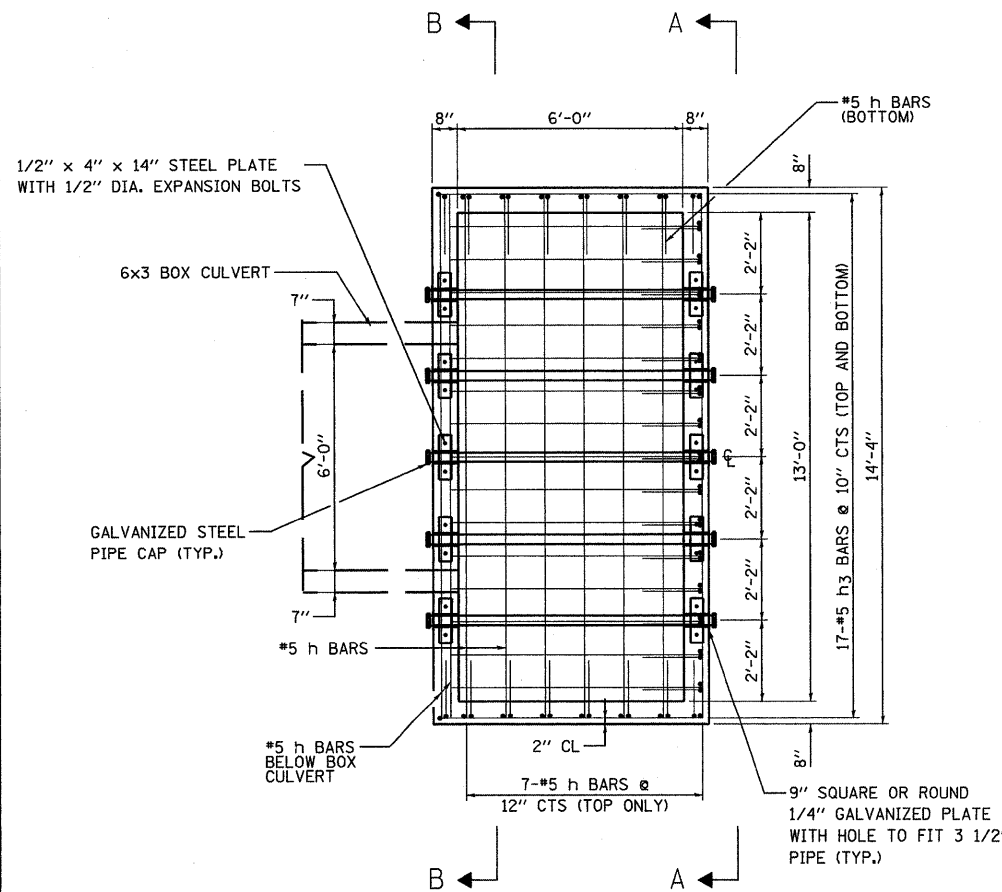
STEEL PLATES SHALL CONFORM TO AASHTO M-270 GRADE 36 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERTING THE WATER FLOW FROM THE CONSTRUCTION AREA USING A METHOD MEETING THE APPROVAL OF THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 503 OF THE STANDARD SPECIFICATION. COST INCLUDED WITH "DROP BOX NO. 8."

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

SEE CROSS SECTION SHEET FOR MORE INFORMATION INCLUDING INVERT ELEVATIONS.



**DESIGN STRESSES**

**f<sub>y</sub> = 60,000 psi**

**f'<sub>c</sub> = 3,500 psi**

David F. Maxwell, S.E. Reg. No. 081-005455  
 Date: 3/3/10  
 My registration expires November 30, 2010.

FILE NAME =	USER NAME =	DESIGNED - GSS	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DROP BOX NO. 8</b>	F.A.P. RTE. 742	SECTION 37 R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 106		
PLOT SCALE =	CHECKED - CTH	REVISED -	SCALE: _____			SHEET NO. 1 OF 1 SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. _____	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64E17		
PLOT DATE = 3/2/2010	DATE - 3/2/2010	REVISED -										



# DROP BOX NO. 10

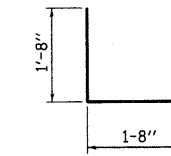
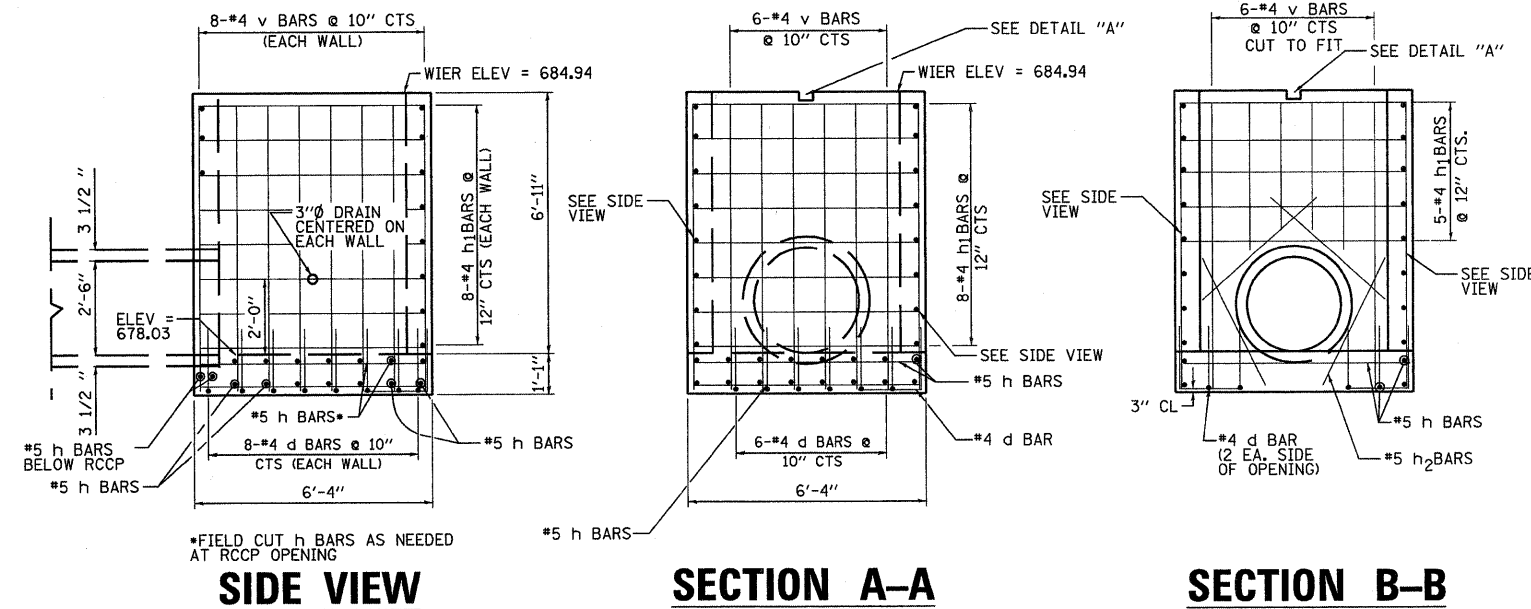
SN 071-1209 - LT STA. 995 + 90 (IL RTE 2)  
 CULVERT @ 0° SKEW TO RDWY

## BILL OF MATERIALS (FOR INFORMATION ONLY)

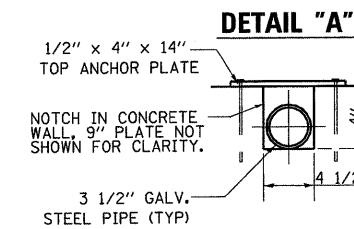
BAR	SIZE	NO.	LENGTH	SHAPE
d	#4	26	3'-4"	L
h	#5	25	6'-0"	—
h <sub>1</sub>	#4	29	6'-0"	—
h <sub>2</sub>	#5	4	3'-4"	—
v	#4	28	7'-6"	—

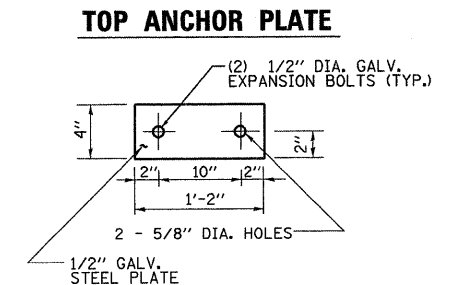
DESCRIPTION	UNIT	QTY
CONCRETE BOX CULVERTS	CU YD	5.8
REINFORCEMENT BARS	LB	480
3 1/2" I.D. GALV STEEL PIPE	FOOT	6'-8"
3 1/2" GALV PIPE CAPS	EACH	2
1/4" GALV. STEEL PLATE (9" NOMINAL)	EACH	2
1/2" X 4" X 14" GALV. STEEL PLATE	EACH	2
EXPANSION BOLTS 1/2"Ø	EACH	4



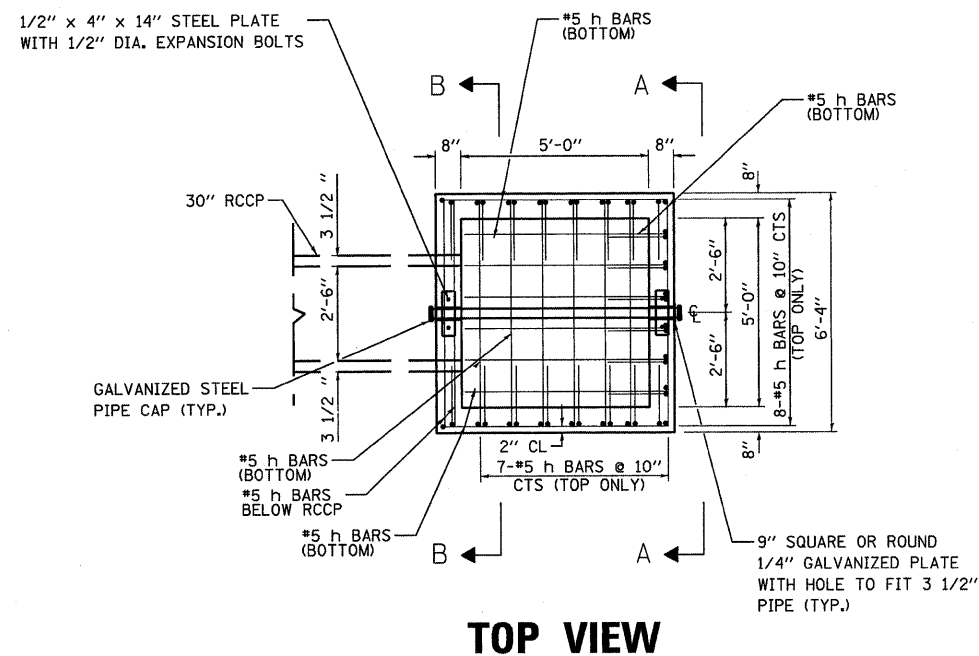
d BAR



DETAIL "A"



TOP ANCHOR PLATE



TOP VIEW

### GENERAL NOTES:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "EACH" FOR DROP BOX NO. 10. THIS WORK SHALL INCLUDE THE GALVANIZED PIPE, ANCHOR PLATES, & CAPS, CONCRETE BOX CULVERTS, REINFORCEMENT BARS, BOLTS, NUTS, WASHERS, INSTALLATION ON THE PROPOSED CULVERT, PIPE GRATING, EARTH EXCAVATION AND DIVERTING WATER WHERE REQUIRED, AND ANY NECESSARY GRADING TO FIT THE DROP BOX, AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

EXPOSED EDGES SHALL BE BEVELED 3/4".

SLOPE FLOW LINE FOR DROP BOX NO. 10 IS THE SAME RATE AS THE FLOW LINE OF THE PIPE.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRACTOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-270 GRADE 36 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERTING THE WATER FLOW FROM THE CONSTRUCTION AREA USING A METHOD MEETING THE APPROVAL OF THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 503 OF THE STANDARD SPECIFICATION. COST INCLUDED WITH "DROP BOX NO. 10."

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

SEE CROSS SECTION SHEET FOR MORE INFORMATION INCLUDING INVERT ELEVATIONS.

### DESIGN STRESSES

f<sub>y</sub> = 60,000 psi

f<sub>c</sub> = 3,500 psi



David F. Maxwell, S.E.

Reg. No. 081-005455

Date: 3/3/10

My registration expires November 30, 2010.

FILE NAME =	USER NAME =	DESIGNED - GSS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DROP BOX NO. 10</b>	F.A.P. RTE. 742	SECTION 37 R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 168	
		DRAWN - GSS	REVISED -			SCALE:	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64E17
		CHECKED - CTH	REVISED -								
		DATE - 3/2/2010	REVISED -								



# BOX CULVERT END SECTION, CULVERT NO. 1 STA. 747 + 50

## BILL OF MATERIALS (For Information Only)

BAR	NO.	SIZE	LENGTH	SHAPE	DESCRIPTION	UNIT	QUANTITY
a	48	#5	7'-1"	—	Concrete Box Culverts	Cu. Yd.	8.1
					Reinforcement Bars	LBS	1,250
d	8	#5	4'-6"	└	3 1/2" I.D. Galv. Steel Pipe	3 @	7'-8"
						2 @	18'-8"
d <sub>1</sub>	44	#5	4'-6"	└	3 1/2" Galv. Pipe Caps	Each	8
h	16	#4	21'-9"	—	1/4" Galv. Steel Plate (9" Nominal)	Each	6
					1/2" x 4" x 14" Galv. Steel Plate	Each	6
h <sub>1</sub>	6	#4	22'-8"	—	5/8" x 9" Galv. Steel Bolts	Each	6
					1/2" Dia. Galv. Expansion Bolts	Each	12
h <sub>2</sub>	4	#6	21'-7"	—	L4x4x3/8 x 3" Long	Each	4
					5/8" Anchor Rods	Each	4
h <sub>3</sub>	7	#6	7'-1"	—	2 1/2" x 2 1/2" x 5/16" W Washer	Each	4
					3/4" x 6 1/2" A307 Bolt	Each	2
s	8	#4	3'-3"	└			
v	14	#4	7'-3"	—			
x	8	#4	2'-8"	—			
x <sub>1</sub>	4	#4	9'-9"	—			
*x <sub>2</sub>	12	#4	10'-6"	—			

\* Only required with precast end section. Weight not included in Reinforcement Bars quantity.

### GENERAL NOTES

This work shall be paid for at the contract unit price per Each for Box Culvert End Section, Culvert No. 1.

This work shall be done in accordance with the applicable portion of sections 503, 508, and 540 of the Standard Specifications.

Contractor shall verify Galvanized pipe lengths.

Exposed edges shall be beveled 3/4".

The contract unit price "EACH" for Box Culvert End Section, Culvert No. 1 shall include the Bolts, Galvanized pipe, Nuts, Washers, Anchor Rods, pipe caps, Steel Plates, Reinforcement Bars, and Concrete Box Culverts.

The Contractor has the option of using precast construction for the end section. If used, the concrete collar will also be included in the cost of Box Culvert End Section, Culvert No. 1.

Contractor shall provide galvanizing for holes, threads, etc. for field fabricated grate assembly.

The cost of earth excavation, where required, and necessary grading to fit the inlet as shown in the cross sections or to the slope is included in the cost of Box Culvert End Section, Culvert No. 1.

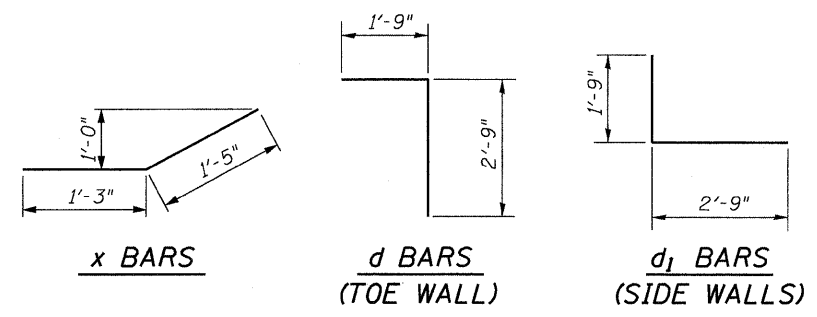
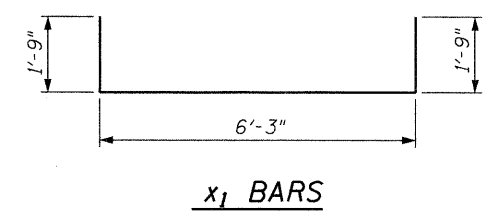
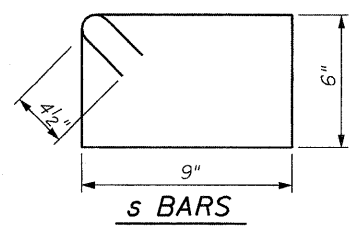
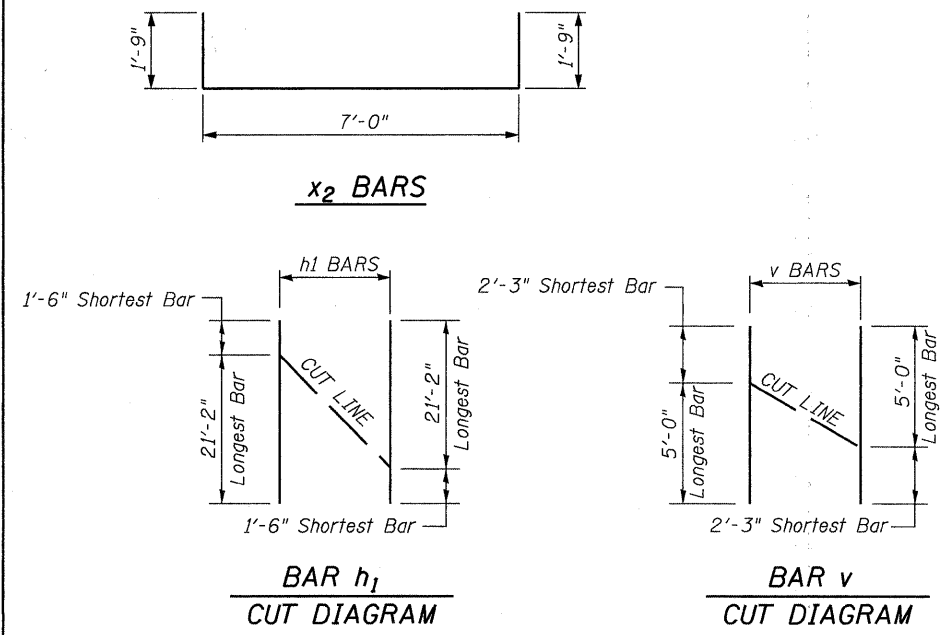
Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60 (IL Modified). See Special Provisions.

Steel Plates shall conform to AASHTO M-270 Grade 36 and shall be galvanized conforming to AASHTO M-111.

Bolts, Nuts, Washers, and Anchor Rods shall be done in accordance with article 505 of the Standard Specifications and shall be galvanized.

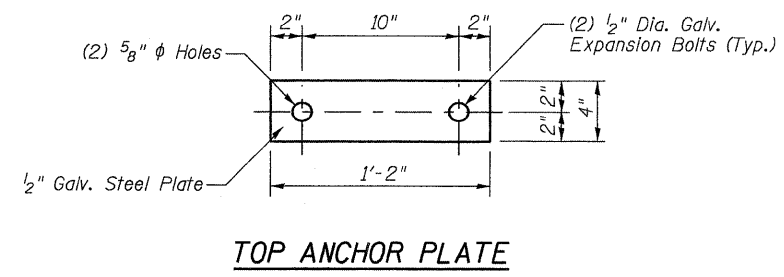
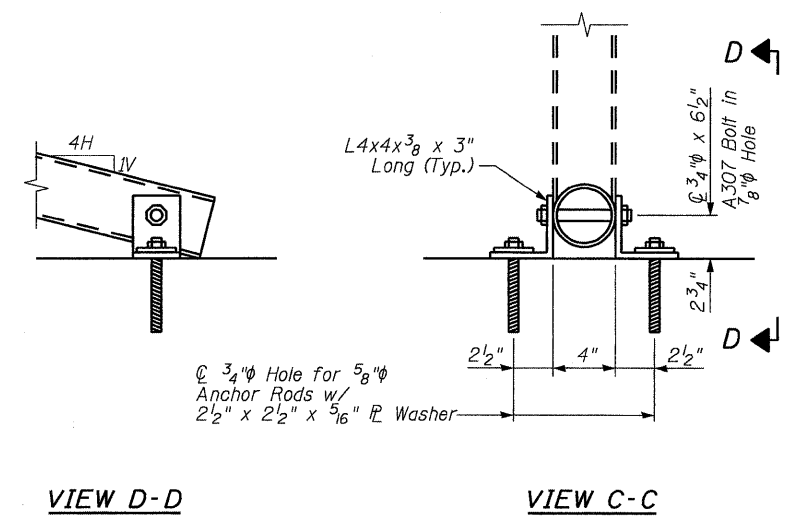
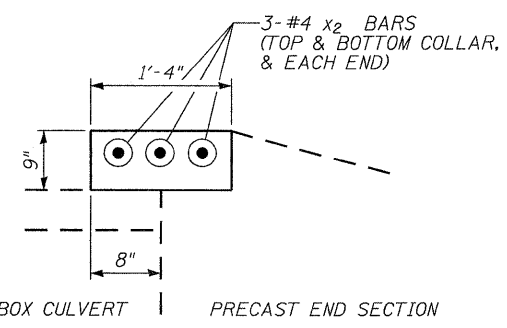
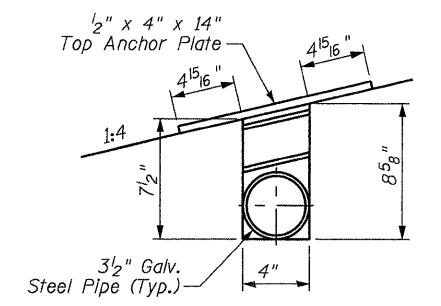
See Plan and Profile Sheet for more information.

See Cross Section Sheet for more information.



### MINIMUM BAR LAP

#4 = 1'-8"  
#5 = 2'-2"



FILE NAME =	USER NAME =	DESIGNED - GSS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CULVERT END SECTION NO. 1</b>	F.A.P. RTE. 742	SECTION 37 R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 170	
PLOT SCALE =	CHECKED - CTH	REVISED -	SCALE:			SHEET NO. 2 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 64E17		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
PLOT DATE = 3/2/2010	DATE - 3/2/2010	REVISED -									

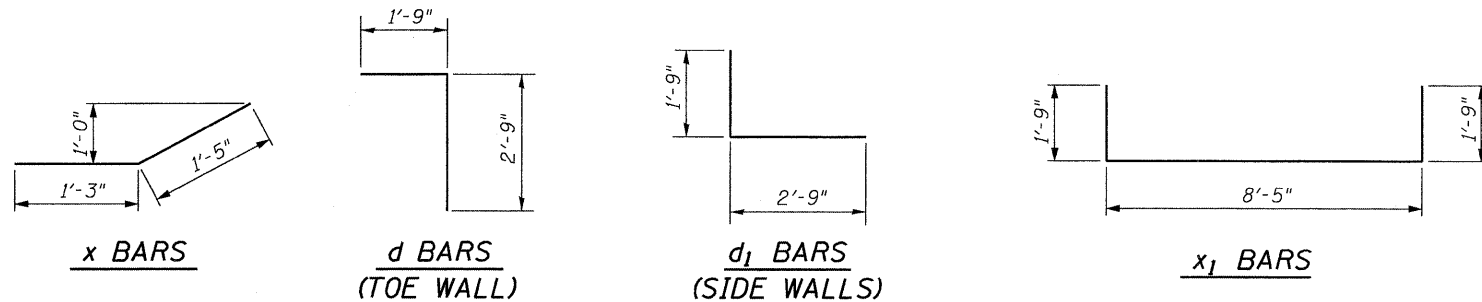
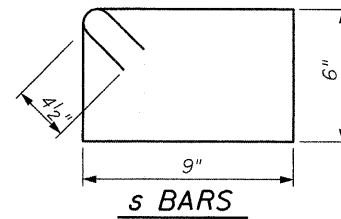
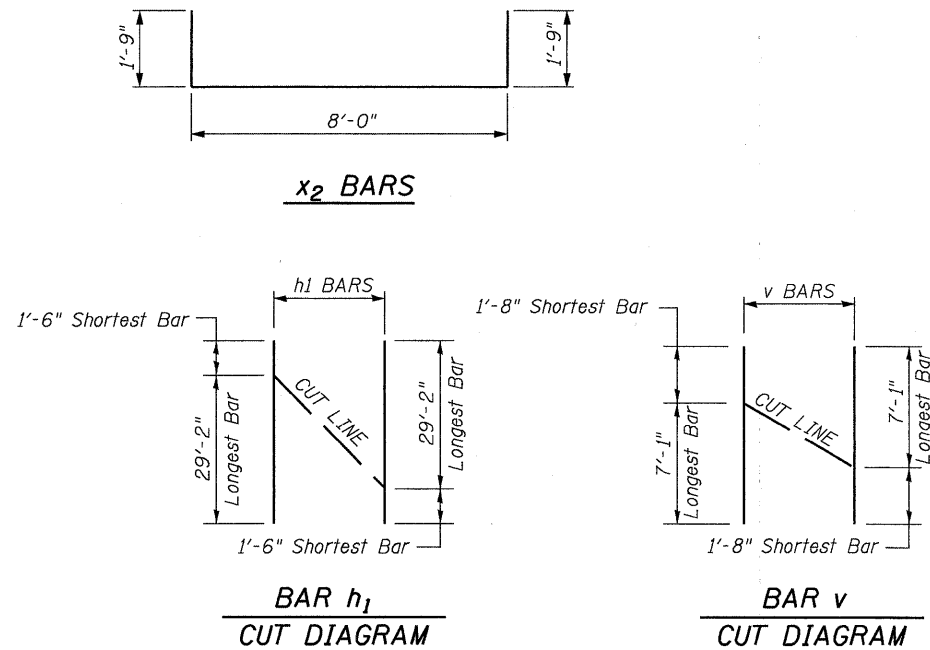


# BOX CULVERT END SECTION, CULVERT NO. 2 STA. 804 + 56

## BILL OF MATERIALS

(For Information Only)

BAR	NO.	SIZE	LENGTH	SHAPE	DESCRIPTION	UNIT	QUANTITY
a	76	#5	8'-3"	—	Concrete Box Culverts	Cu. Yd.	14.8
					Reinforcement Bars	LBS	2,080
d	9	#5	4'-6"	└	3 1/2" I.D. Galv. Steel Pipe	4 $\phi$	8'-8"
						2 $\phi$	27'-0"
d <sub>1</sub>	70	#5	4'-6"	└	3 1/2" Galv. Pipe Caps	Each	10
h	18	#4	30'-1"	—	1/4" Galv. Steel Plate (9" Nominal)	Each	8
h <sub>1</sub>	8	#4	30'-8"	—	1/2" x 4" x 14" Galv. Steel Plate	Each	8
h <sub>2</sub>	4	#6	29'-10"	—	5/8" x 9" Galv. Steel Bolts	Each	8
h <sub>3</sub>	7	#6	8'-3"	—	1/2" Dia. Galv. Expansion Bolts	Each	16
h <sub>4</sub>	4	#4	4'-4"	—	L4x4x3/8 x 3" Long	Each	4
s	9	#4	3'-3"	└	3/8" Anchor Rods	Each	4
v	27	#4	9'-9"	—	2 1/2" x 2 1/2" x 5/16" P Washer	Each	4
v <sub>1</sub>	4	#4	2'-6"	—	3/4" x 6 1/2" A307 Bolt	Each	2
x	9	#4	2'-8"	—			
x <sub>1</sub>	4	#4	11'-11"	└			



### MINIMUM BAR LAP

#4 = 1'-8"  
#5 = 2'-2"

### GENERAL NOTES

This work shall be paid for at the contract unit price per Each for Box Culvert End Section, Culvert No. 2.

This work shall be done in accordance with the applicable portion of sections 503, 508, and 540 of the Standard Specifications.

Contractor shall verify Galvanized pipe lengths.

Exposed edges shall be beveled 3/4".

The contract unit price "EACH" for Box Culvert End Section, Culvert No. 2 shall include the Bolts, Galvanized pipe, Nuts, Washers, Anchor Rods, pipe caps, Steel Plates, Reinforcement Bars, and Concrete Box Culverts.

The Contractor has the option of using precast construction for the end section.

Contractor shall provide galvanizing for holes, threads, etc. for field fabricated gate assembly.

The cost of earth excavation, where required, and necessary grading to fit the inlet as shown in the cross sections or to the slope is included in the cost of Box Culvert End Section, Culvert No. 2.

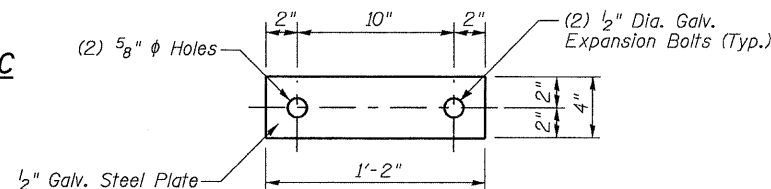
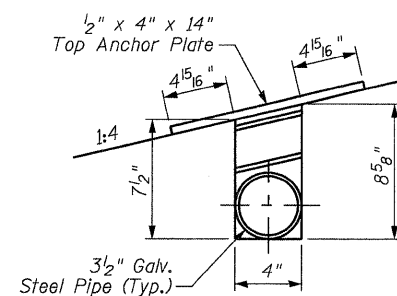
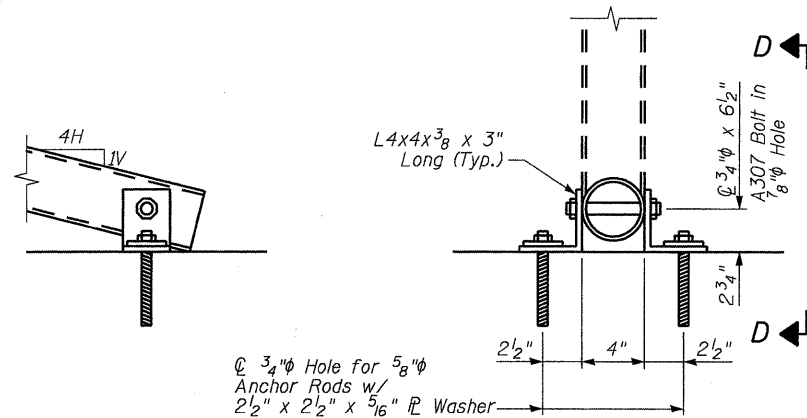
Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60 (IL Modified). See Special Provisions.

Steel Plates shall conform to AASHTO M-270 Grade 36 and shall be galvanized conforming to AASHTO M-111.

Bolts, Nuts, Washers, and Anchor Rods shall be done in accordance with article 505 of the Standard Specifications and shall be galvanized.

See Plan and Profile Sheet for more information.

See Cross Section Sheet for more information.

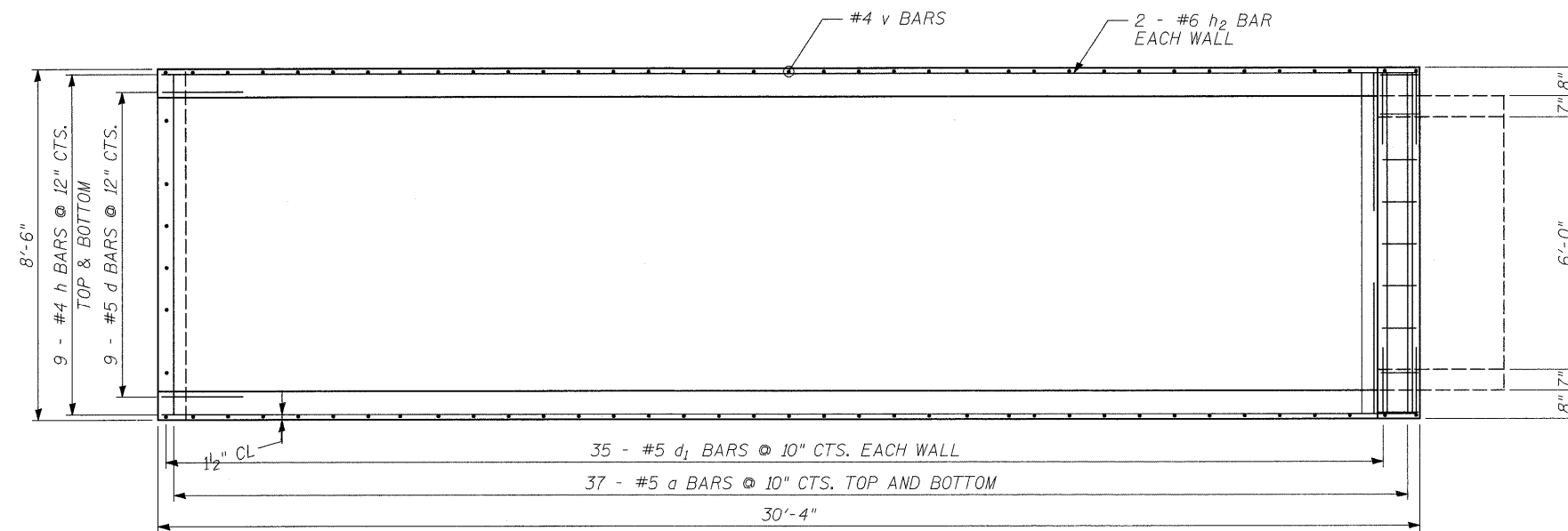


FILE NAME =	USER NAME =	DESIGNED - GSS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CULVERT END SECTION NO. 2</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - GSS	REVISED -					742	37 R-4	OGLE	867	172
		CHECKED - CTH	REVISED -					<b>CONTRACT NO. 64E17</b>				
		DATE - 3/2/2010	REVISED -			SCALE:	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

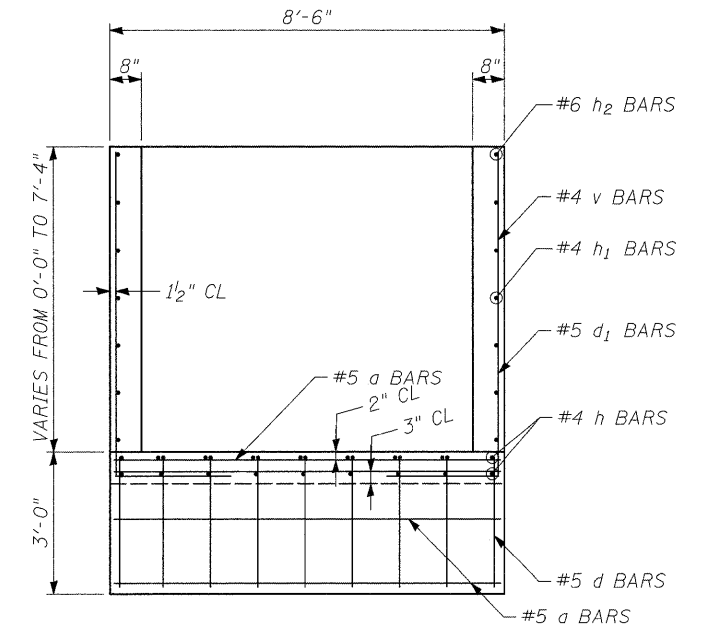


# BOX CULVERT END SECTION CULVERT NO. 3

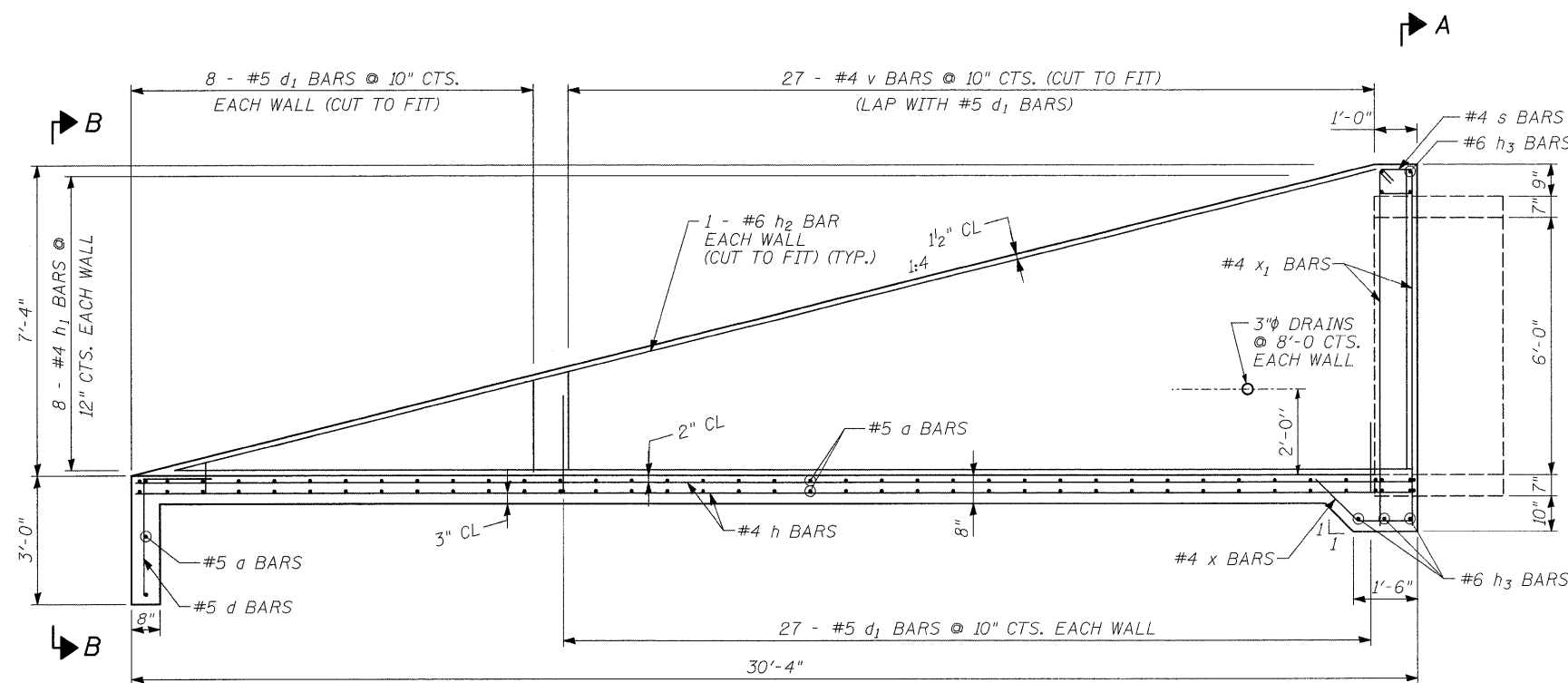
## STA. 804 + 56



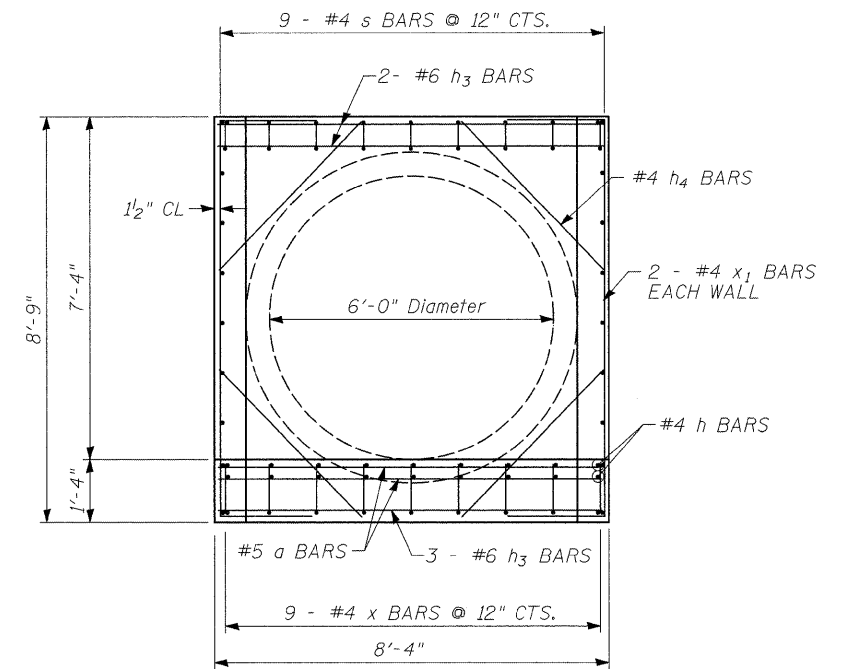
**PLAN VIEW**



**SECTION B-B**



**LONGITUDINAL SECTION**



**SECTION A-A**

FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BOX CULVERT END SECTION CULVERT NO. 3</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17					
PLOT DATE = Wed Mar 31 08:57:47 2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	

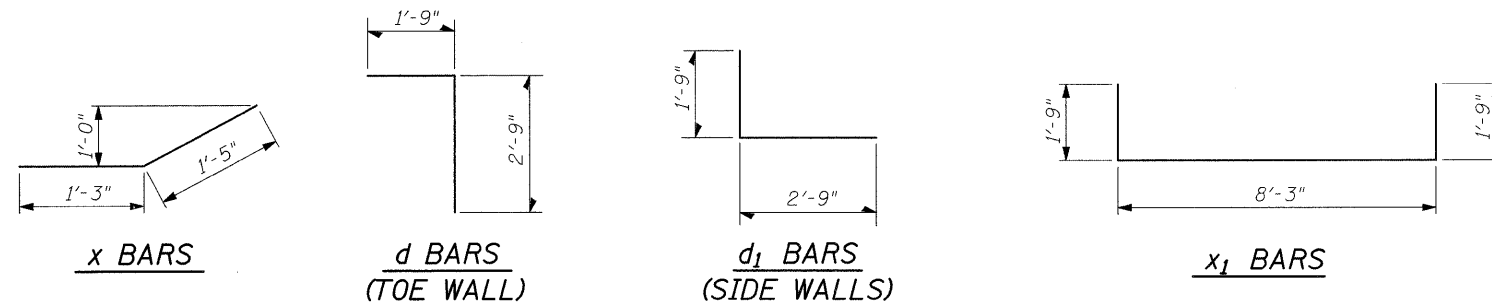
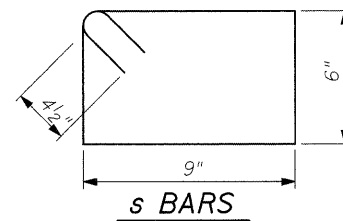
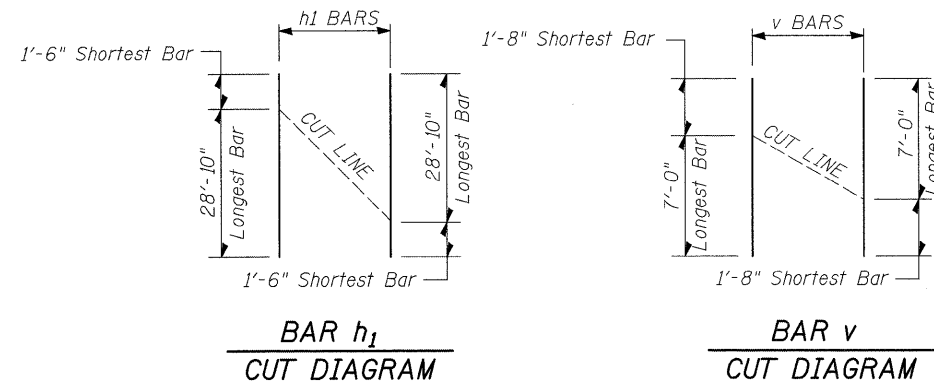
# BOX CULVERT END SECTION CULVERT NO. 3

## STA. 804 + 56

BILL OF MATERIALS  
(For Information Only)

### MINIMUM BAR LAP

#4 = 1'-8"  
#5 = 2'-2"



BAR	NO.	SIZE	LENGTH	SHAPE
a	76	#5	8'-3"	—
d	9	#5	4'-6"	└
d <sub>1</sub>	70	#5	4'-6"	└
h	18	#4	30'-1"	—
h <sub>1</sub>	8	#4	30'-8"	—
h <sub>2</sub>	4	#6	29'-10"	—
h <sub>3</sub>	7	#6	8'-3"	—
h <sub>4</sub>	4	#4	4'-4"	—
s	9	#4	3'-3"	└
v	27	#4	9'-9"	—
x	9	#4	2'-8"	—
x <sub>1</sub>	4	#4	11'-11"	└
DESCRIPTION			UNIT	QUANTITY
Concrete Box Culverts			Cu. Yd.	14.8
Reinforcement Bars			LBS	2,071

### GENERAL NOTES

This work shall be paid for at the contract unit price per Each for Culvert End Section No. 3.

This work shall be done in accordance with the applicable portion of sections 503, 508, and 540 of the Standard Specifications.

Exposed edges shall be beveled  $\frac{3}{4}$ ".

The contract unit price "EACH" for Culvert End Section No. 3 shall include the Reinforcement Bars, and Concrete Box Culverts.

The Contractor has the option of using precast construction for the end section.

The cost of earth excavation, where required, and necessary grading to fit the inlet as shown in the cross sections or to the slope is included in the cost of Culvert End Section No. 3.

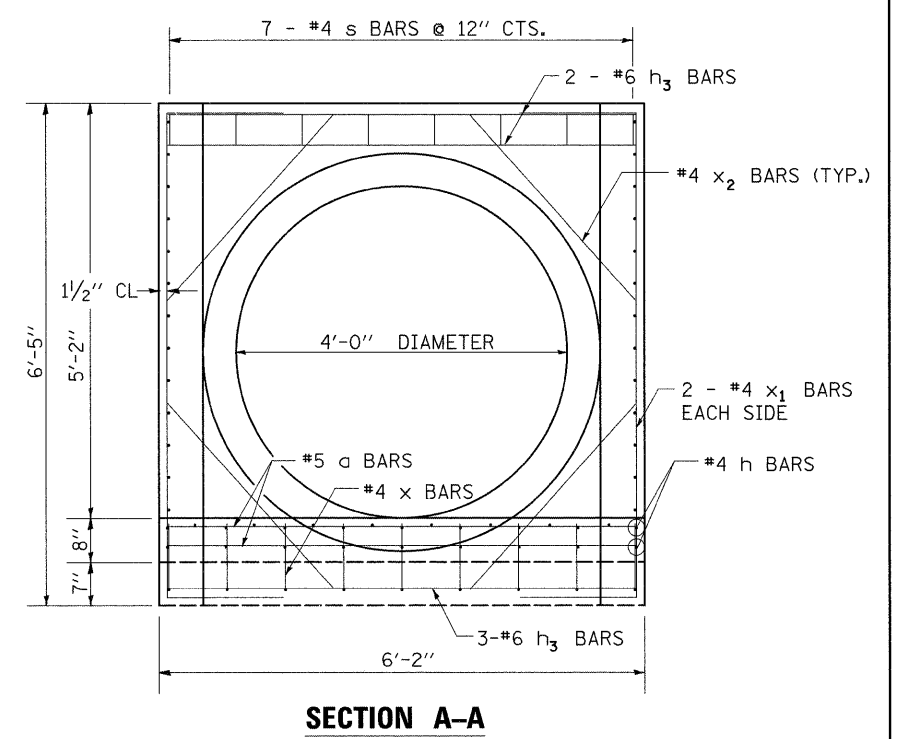
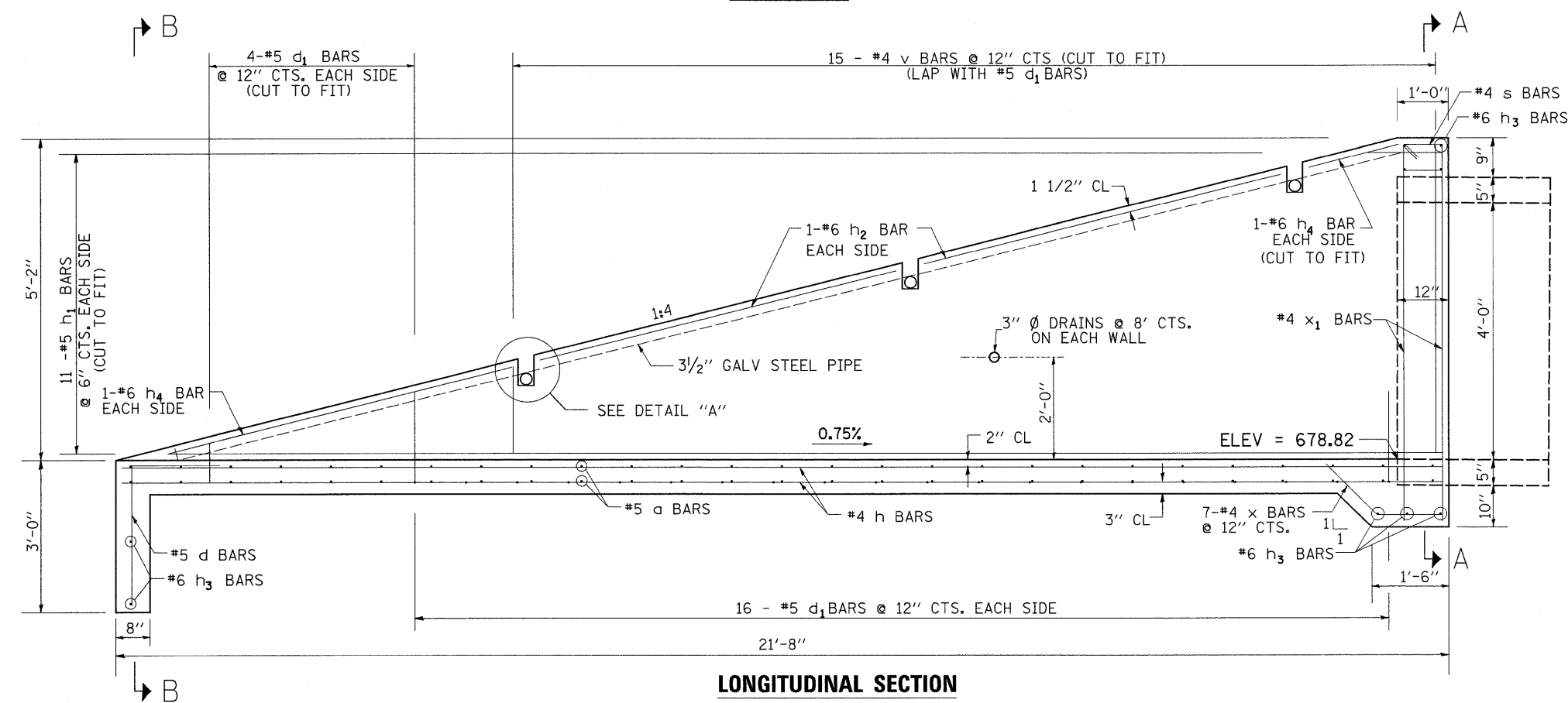
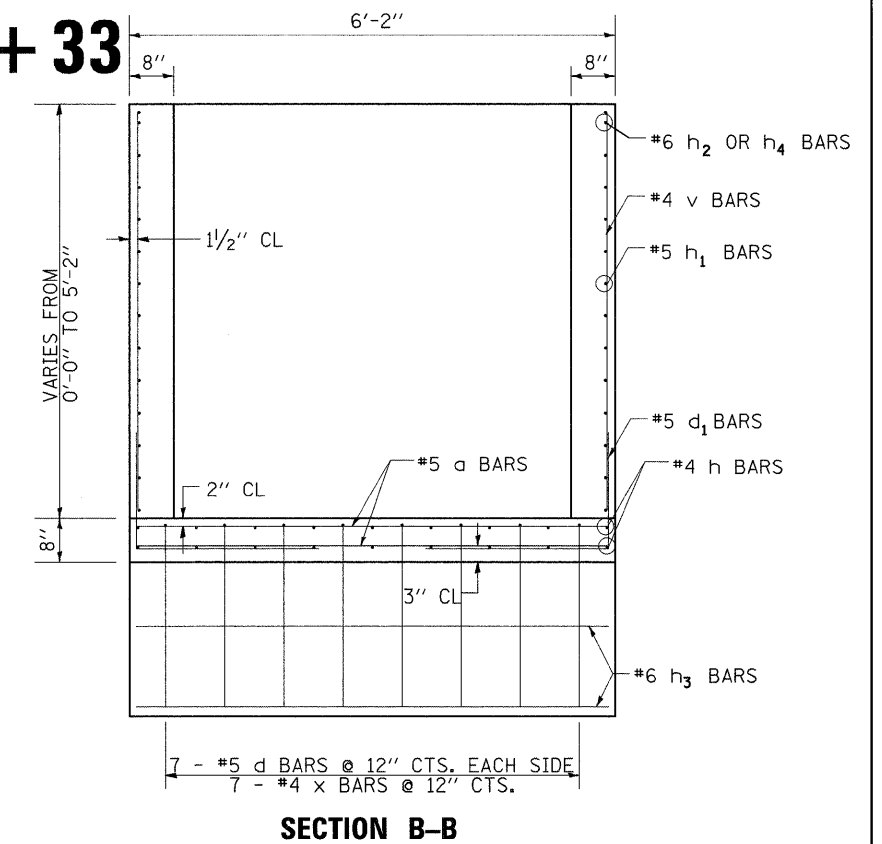
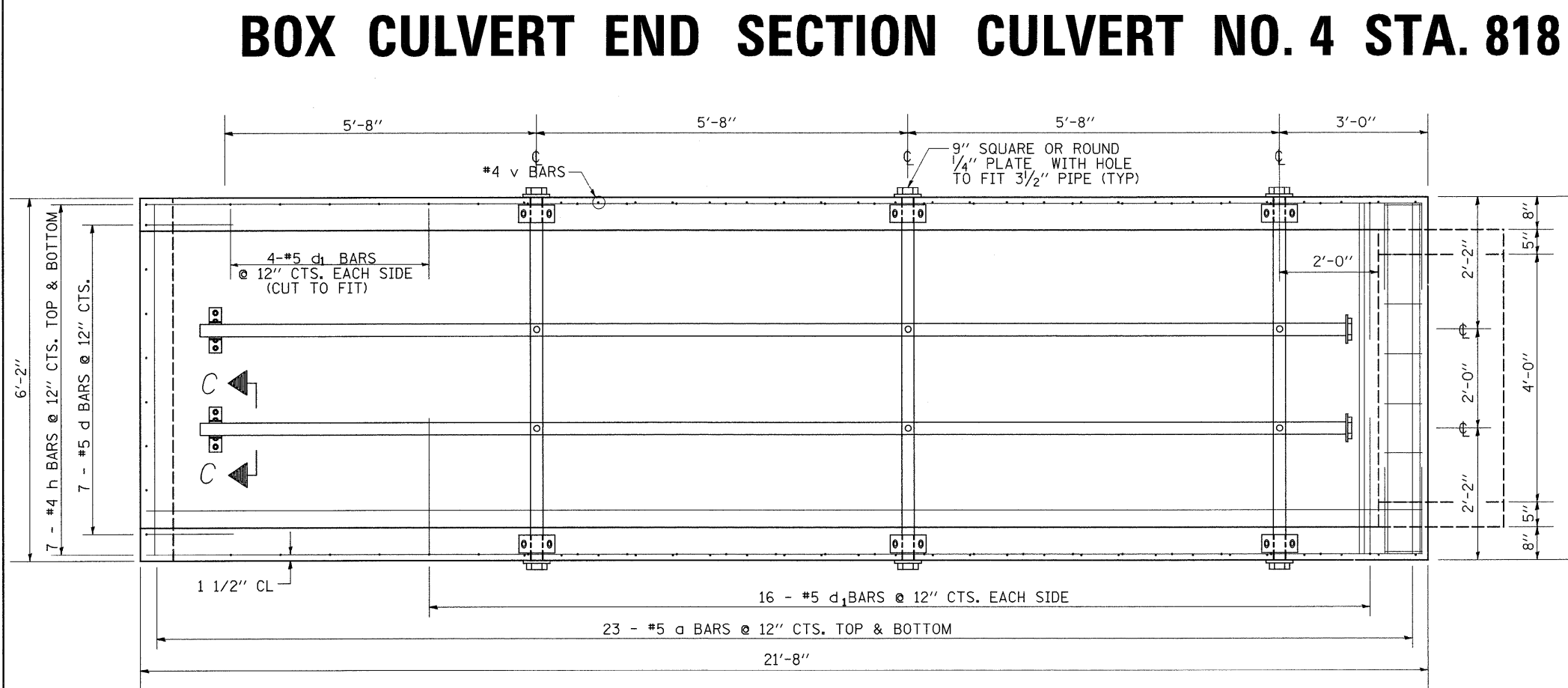
Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60 (IL Modified). See Special Provisions.

See Plan and Profile Sheet for more information.

See Cross Section Sheet for more information.

FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BOX CULVERT END SECTION CULVERT NO. 3</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = Wed Mar 31 08:57:48 2010	CHECKED -	REVISED -			CONTRACT NO. 64E17					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	

# BOX CULVERT END SECTION CULVERT NO. 4 STA. 818 + 33



FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BOX CULVERT END SECTION CULVERT NO. 4</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Wed Mar 31 08:57:41 2010	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64E17				
		DATE -	REVISED -			SCALE:	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

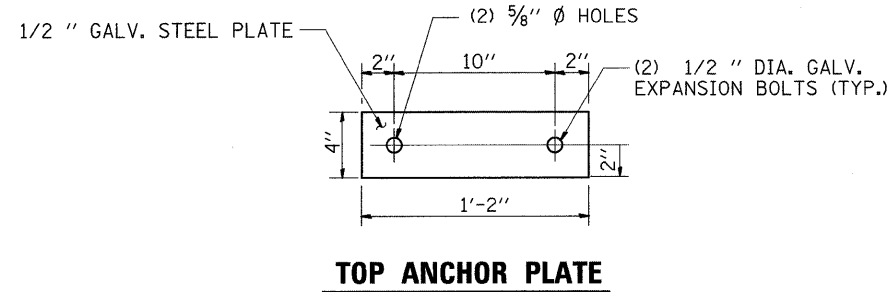
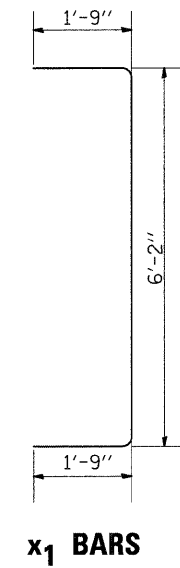
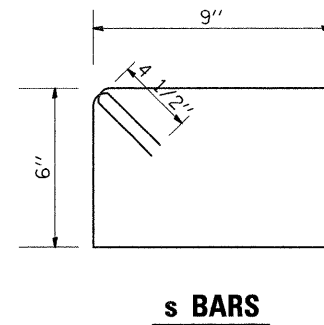
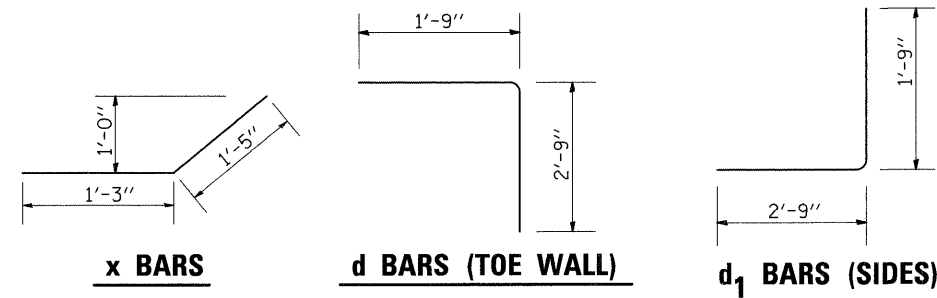
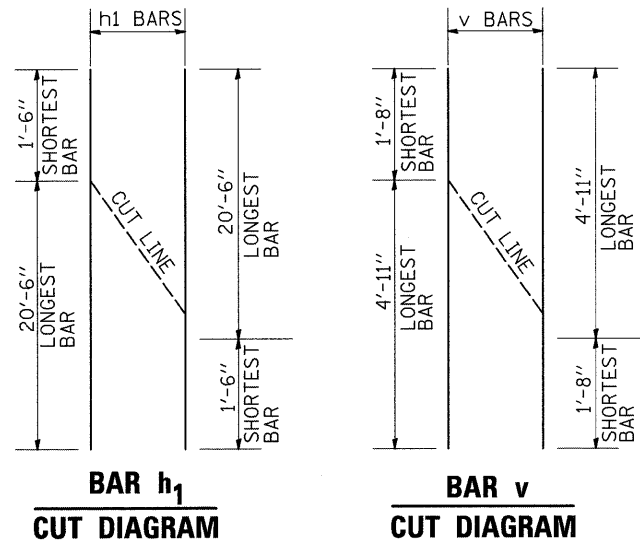
# BOX CULVERT END SECTION CULVERT NO. 4 STA. 818 + 33

## BILL OF MATERIALS

(For Information Only)

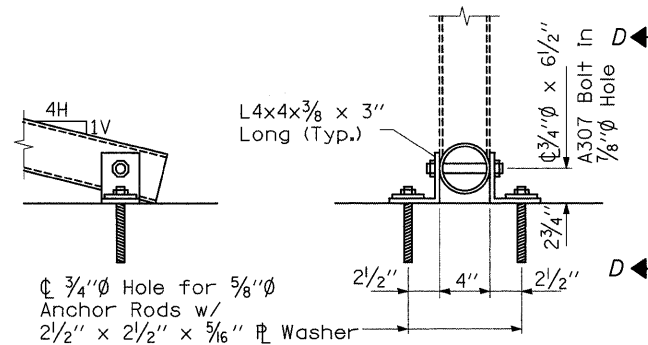
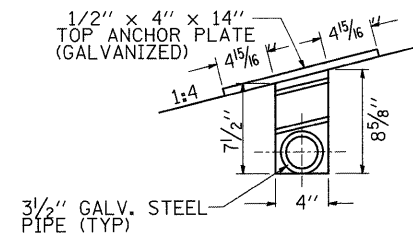
BAR	NUMBER	SIZE	LENGTH	SHAPE
a	46	#5	5'-11"	—
d	7	#5	4'-6"	└
d <sub>1</sub>	39	#5	4'-6"	└
h	14	#4	21'-3"	—
h <sub>1</sub>	11	#5	22'-0"	—
h <sub>2</sub>	4	#6	5'-3"	—
h <sub>3</sub>	9	#6	5'-11"	—
h <sub>4</sub>	4	#6	6'-3"	—
s	7	#4	3'-3"	⊠
v	15	#4	6'-7"	—
x	7	#4	2'-8"	└
x <sub>1</sub>	4	#4	9'-8"	└
x <sub>2</sub>	4	#4	3'-4"	—

DESCRIPTION	UNIT	QTY.
Concrete Box Culverts	CuYd	7.5
Reinforcement Bars	LBS	1,228
3/2" I.D. Galv. Steel Pipe	3 @	6'-8"
	2 @	18'-8"
1/2" Dia. Galv. Expansion Bolts	EACH	12
3/2" Galv. Pipe Caps	EACH	8
1/4" Galv. Steel Plate (9" Nominal)	EACH	6
1/2"x4"x14" Galv. Steel Plate	EACH	6
5/8"x9" Galv. Steel Bolts	EACH	6
L 4 x 4 x3/8 x 3" Long	EACH	2
5/8" φ Anchor Rods	EACH	4
2 1/2" x 2 1/2" x 5/16" PL Washer	EACH	4
3/4" φ X 6 1/2" A307 Bolt	EACH	2



**TOP ANCHOR PLATE**

**DETAIL "A"**



**VIEW D-D**

**VIEW C-C**

### GENERAL NOTES:

This work shall be paid for at the contract unit price per Each for Box Culvert End Section No. 4.

This work shall be done in accordance with the applicable portions of sections 503, 508, AND 540 of the Standard Specifications.

Contractor shall field verify Galvanized pipe lengths.

Exposed edges shall be beveled 3/4".

The contract unit price "EACH" for Box Culvert End Section No. 4 shall include the Bolts, Galvanized pipe, Nuts, Washers, Anchor Rods, and pipe caps, Steel Plates, Reinforcement Bars, and Concrete Box Culverts.

The Contractor has the option of using Precast construction for the end section.

Contractor shall provide galvanizing for holes, threads, etc. for field-fabricated gate assembly.

The cost of earth excavation, where required, and necessary grading to fit the inlet as shown in the cross-sections or to the slope is included in the cost of Box Culvert End Section No. 4

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.

Steel plates shall conform to AASHTO M-270 Grade 36 and shall be galvanized conforming to AASHTO M-111.

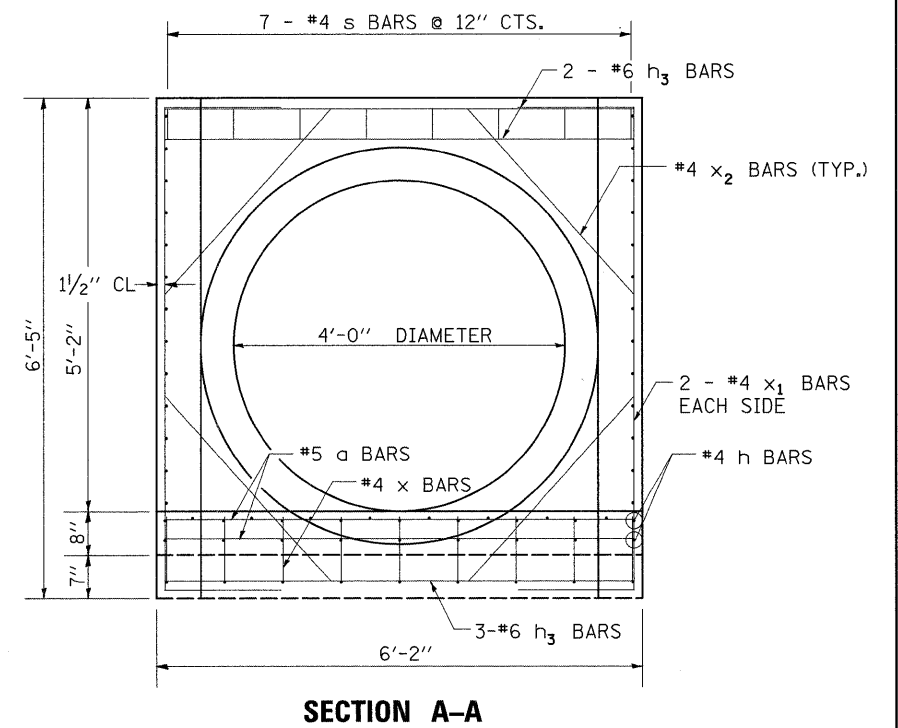
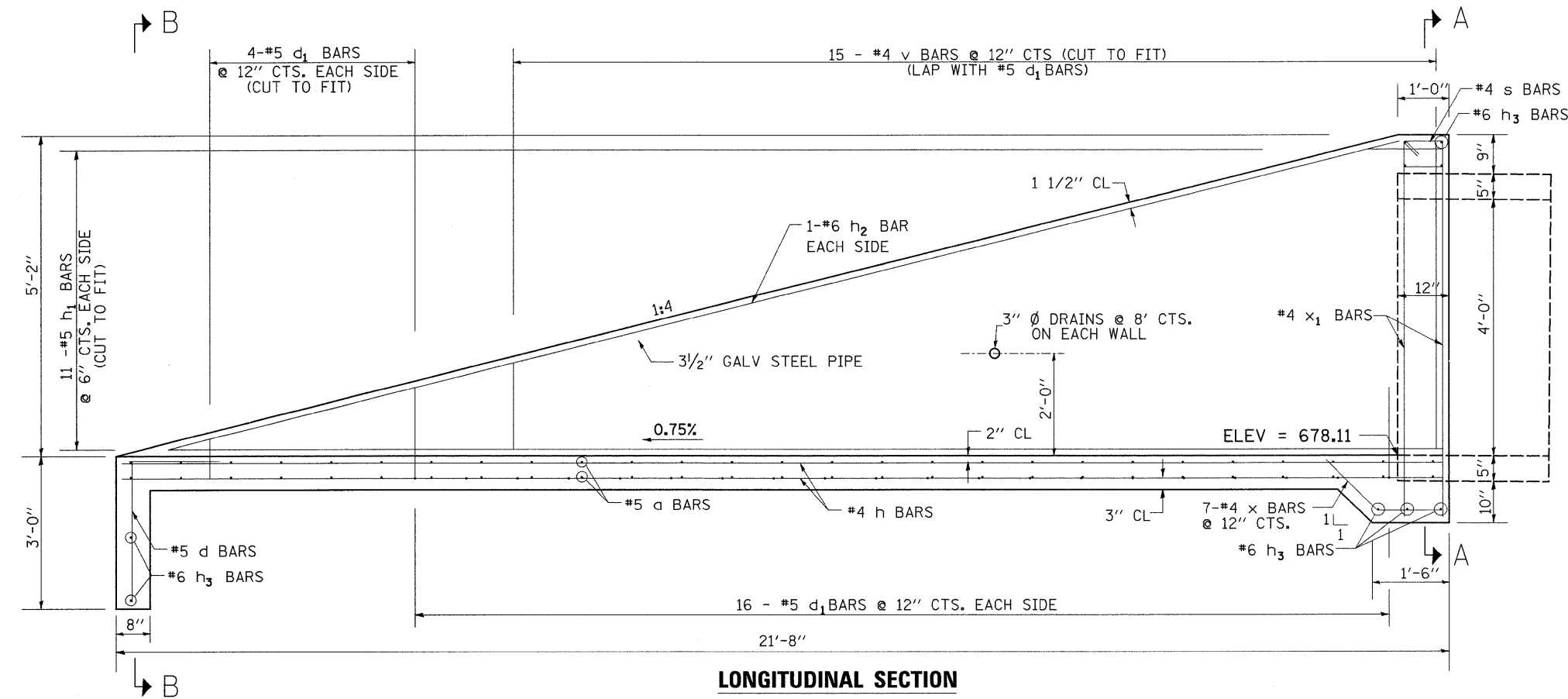
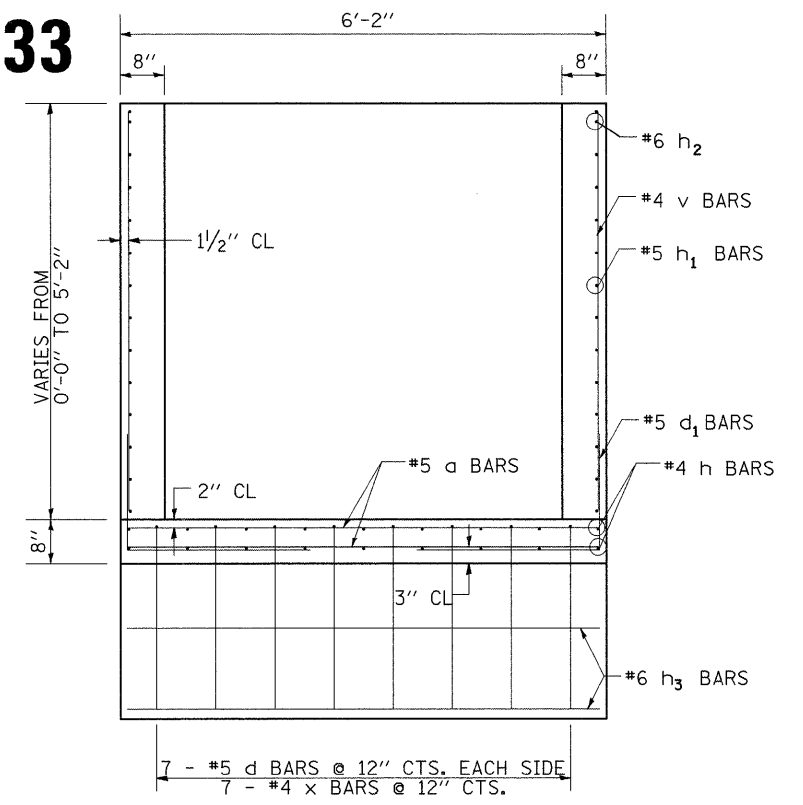
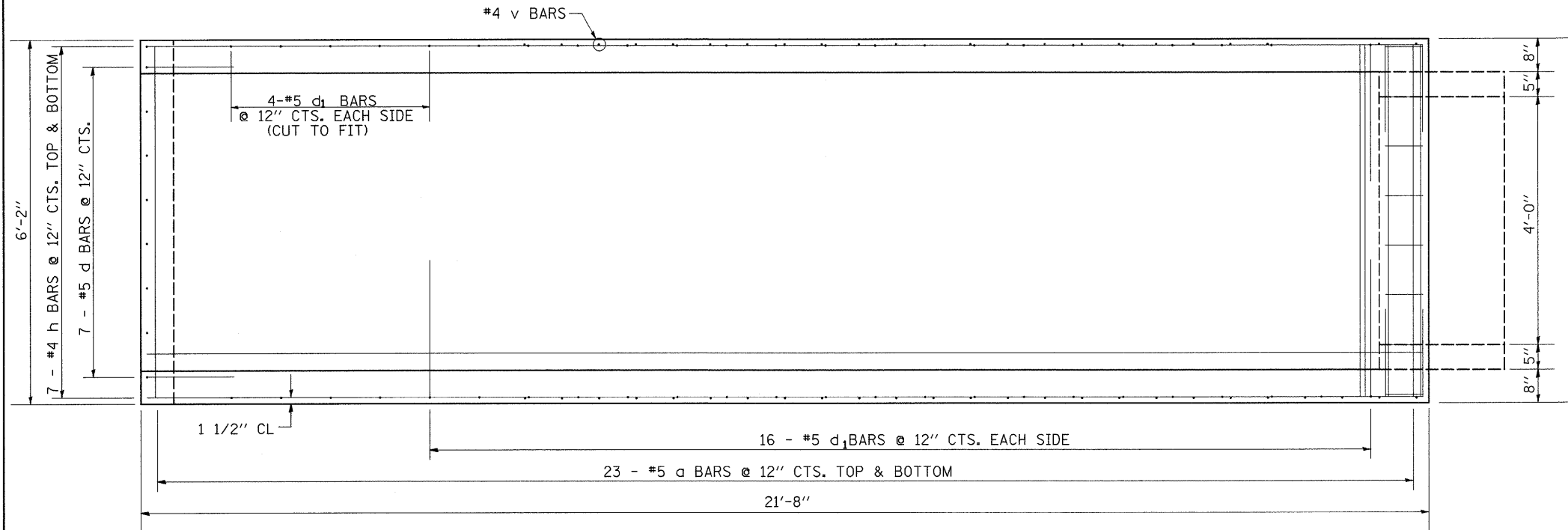
Bolts, Nuts, Washers, and Anchor Rods shall be in accordance with article 505 of the Standard Specifications and shall be galvanized.

See Plan and Profile Sheet for more information.

See Cross Section Sheet for more information.

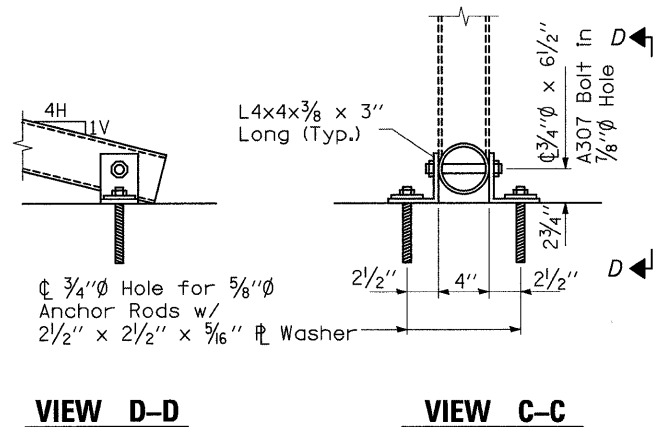
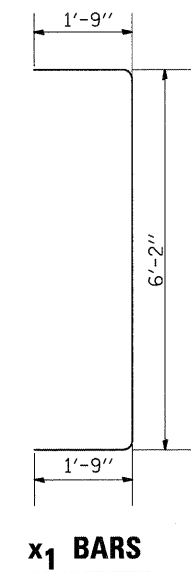
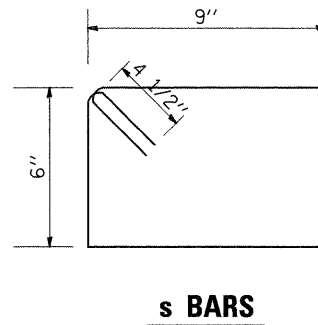
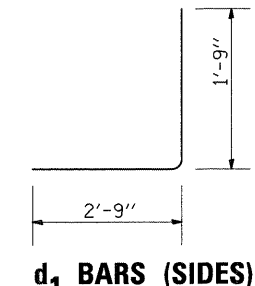
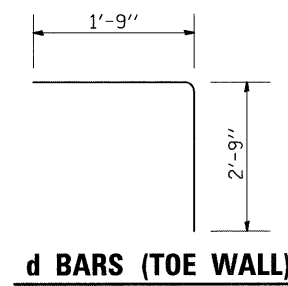
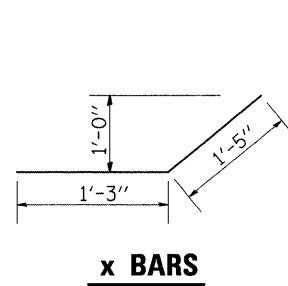
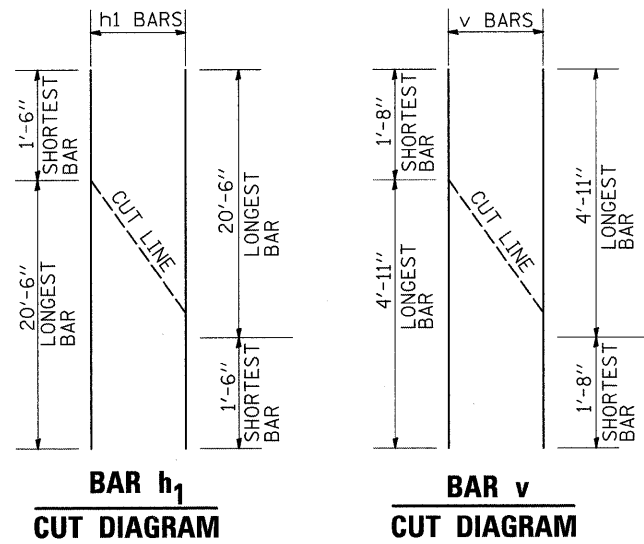
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PLOT DATE = Wed Mar 31 08:57:12 2010	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64E17				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

# BOX CULVERT END SECTION CULVERT NO. 5 STA. 818 + 33



FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BOX CULVERT END SECTION CULVERT NO. 5</b>	F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 177	
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	PLOT DATE = Wed Mar 31 08:57:12 2010	CHECKED -	REVISED -								
		DATE -	REVISED -								

# BOX CULVERT END SECTION CULVERT NO. 5 STA. 818 + 33



**BILL OF MATERIALS**  
(For Information Only)

BAR	NUMBER	SIZE	LENGTH	SHAPE
a	46	#5	5'-11"	—
d	7	#5	4'-6"	└
d <sub>1</sub>	39	#5	4'-6"	└
h	14	#4	21'-3"	—
h <sub>1</sub>	11	#5	22'-0"	—
h <sub>2</sub>	2	#6	20'-3"	—
h <sub>3</sub>	9	#6	5'-11"	—
s	7	#4	3'-3"	└
v	15	#4	6'-7"	—
x	7	#4	2'-8"	└
x <sub>1</sub>	4	#4	9'-8"	└
x <sub>2</sub>	4	#4	3'-4"	—
DESCRIPTION			UNIT	QTY.
Concrete Box Culverts			CuYd	7.5
Reinforcement Bars			LBS	1,220

**GENERAL NOTES:**

This work shall be paid for at the contract unit price per Each for Box Culvert End Section No. 5.

This work shall be done in according to the applicable portions of sections 503, 508, AND 540 of the Standard Specifications.

Exposed edges shall be beveled 3/4".

The contract unit price "EACH" for Box Culvert End Section No. 5 shall include the Reinforcement Bars and Concrete Box Culverts.

The Contractor has the option of using Precast construction for the end section.

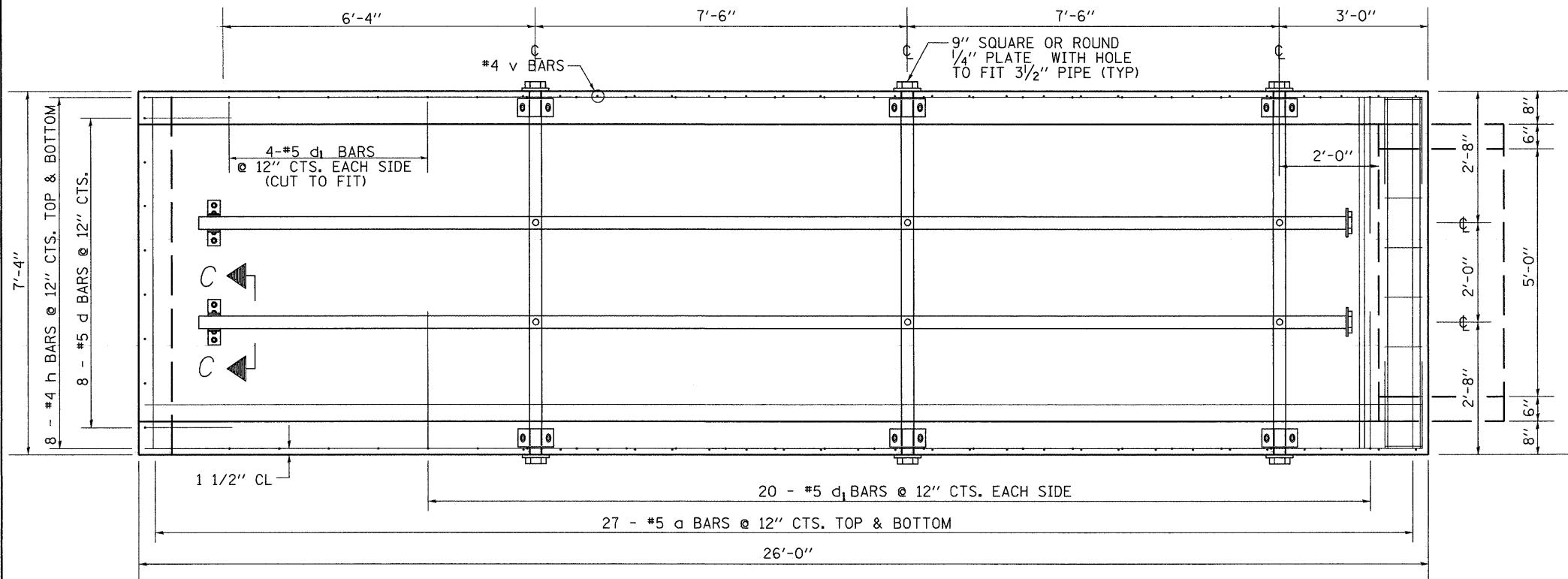
The cost of earth excavation, where required, and necessary grading to fit the inlet as shown in the cross-sections or to the slope is included in the cost of Box Culvert End Section No. 5

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.

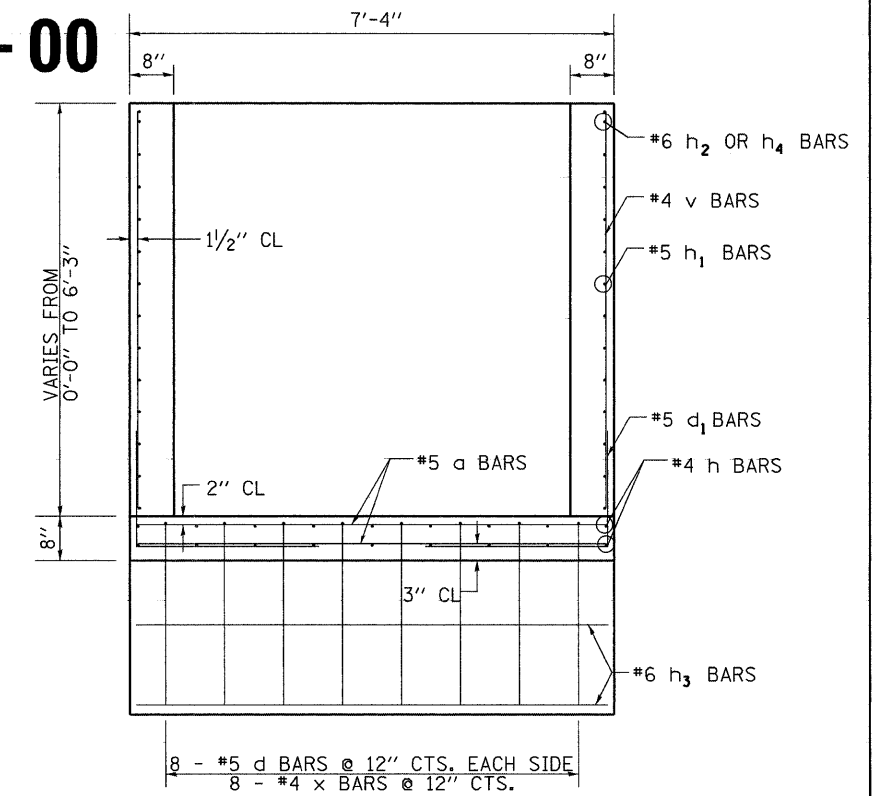
See Plan and Profile Sheet for more information.

See Cross Section Sheet for more information.

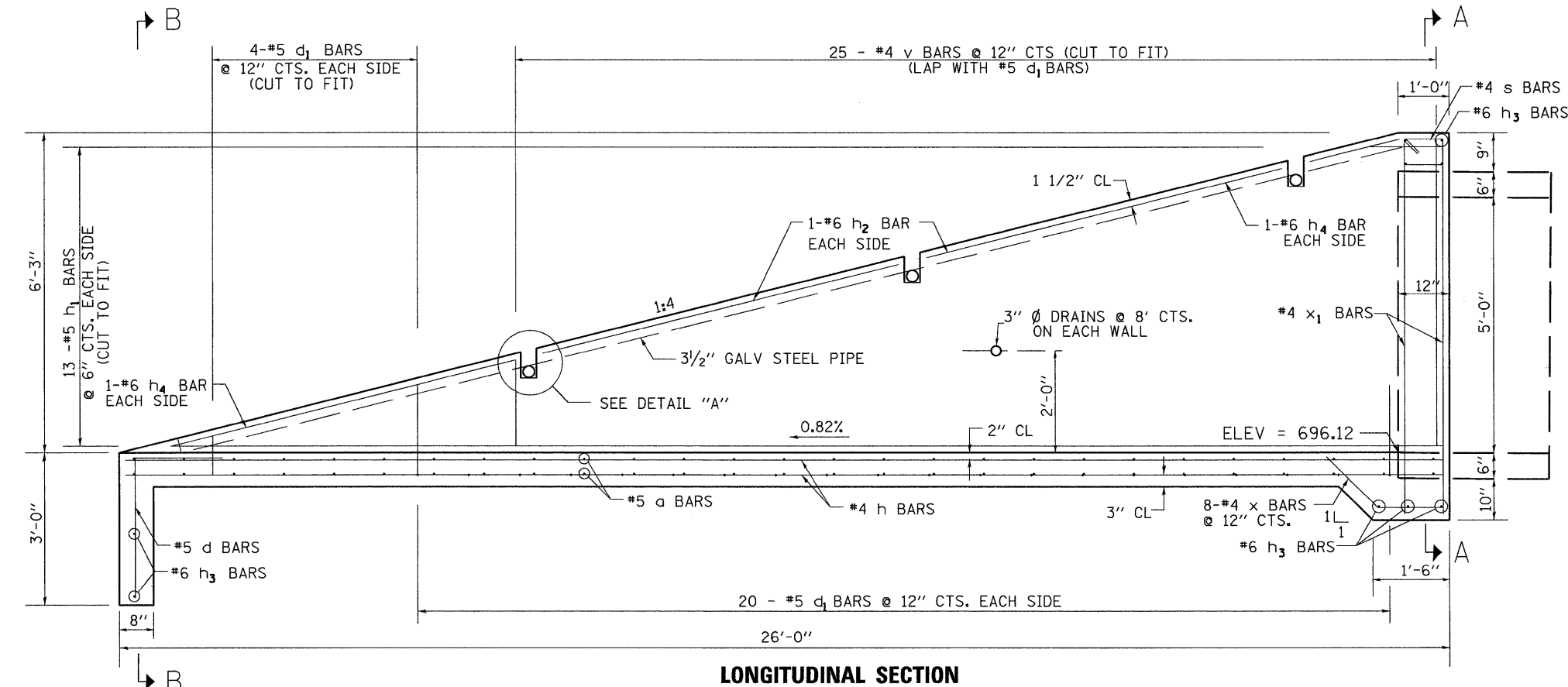
# BOX CULVERT END SECTION CULVERT NO. 6 STA. 964+00



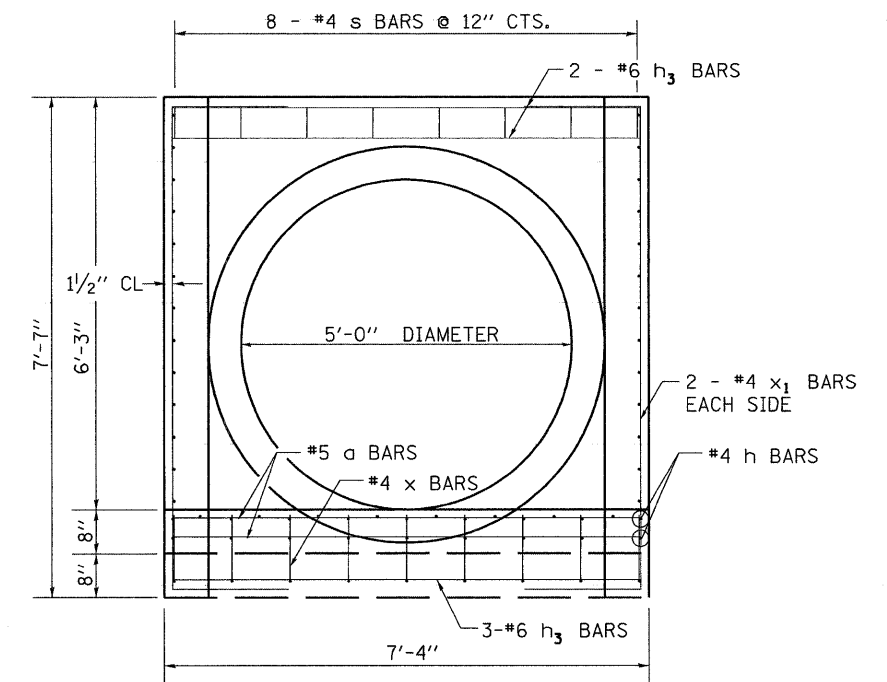
**PLAN VIEW**



**SECTION B-B**



**LONGITUDINAL SECTION**

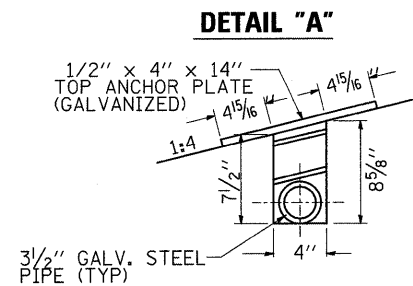
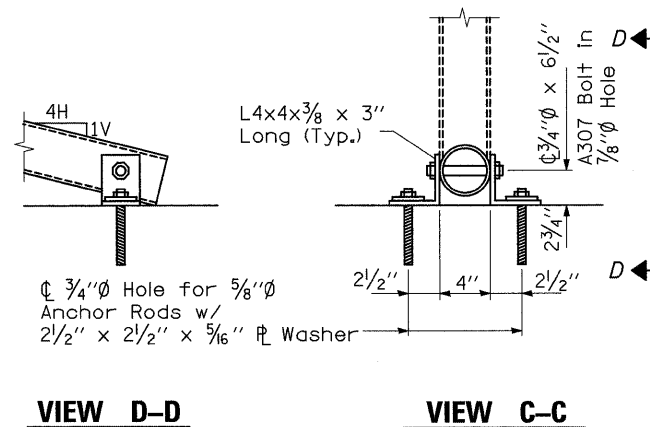
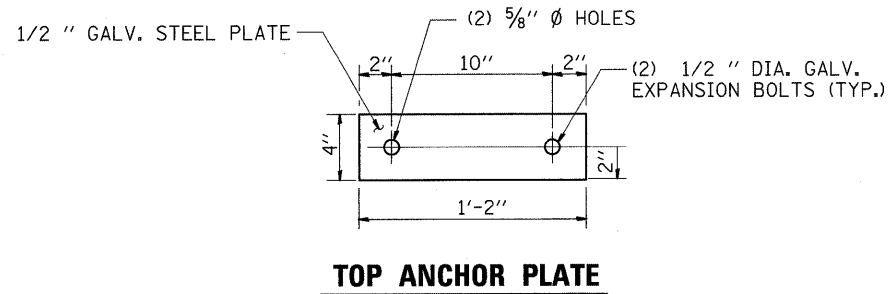
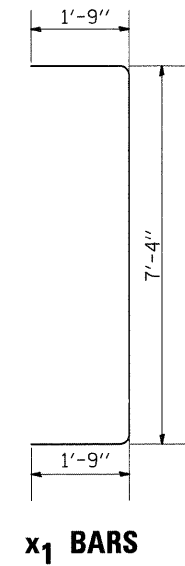
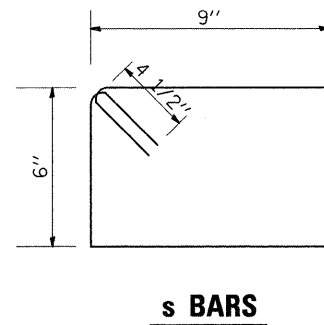
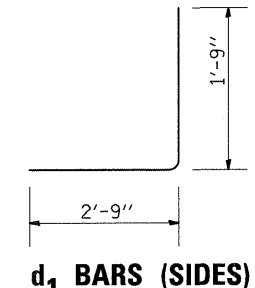
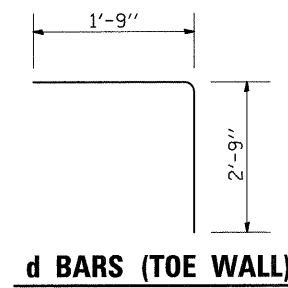
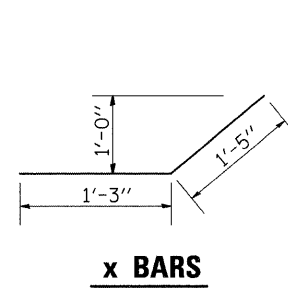
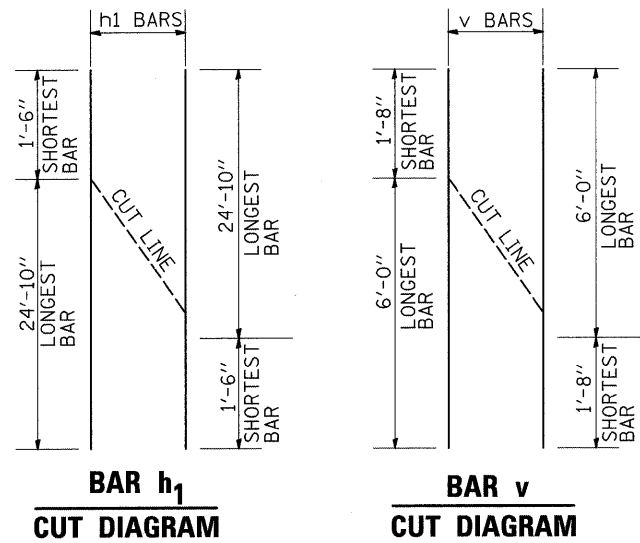


**SECTION A-A**

	David F. Maxwell, S.E. Date: 3/3/10 My registration expires November 30, 2010.
	Reg. No. 081-005455

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PLOT SCALE = 50.1500' / IN.	DRAWN -	REVISED -	SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.			CONTRACT NO. 64E17				
PLOT DATE = 6/17/2010	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT				
	DATE -	REVISED -								

# BOX CULVERT END SECTION CULVERT NO. 6 STA. 964 + 00



BILL OF MATERIALS				
(For Information Only)				
BAR	NUMBER	SIZE	LENGTH	SHAPE
a	54	#5	7'-1"	—
d	8	#5	4'-6"	└
d <sub>1</sub>	48	#5	4'-6"	└
h	16	#4	25'-9"	—
h <sub>1</sub>	13	#5	26'-4"	—
h <sub>2</sub>	4	#6	7'-0"	—
h <sub>3</sub>	9	#6	7'-1"	—
h <sub>4</sub>	4	#6	4'-6"	—
s	8	#4	3'-3"	└
v	25	#4	7'-8"	—
x	8	#4	2'-8"	└
x <sub>1</sub>	4	#4	10'-10"	└
*x <sub>2</sub>	12	#4	11'-6"	└

DESCRIPTION	UNIT	QTY.
Concrete Box Culverts	CuYd	10.0
Reinforcement Bars	LBS	1,650
3/2" I.D. Galv. Steel Pipe	3 @	7'-8"
	2 @	22'-8"
1/2" Dia. Galv. Expansion Bolts	EACH	12
3/2" Galv. Pipe Caps	EACH	8
1/4" Galv. Steel Plate (9" Nominal)	EACH	6
1/2"x4"x14" Galv. Steel Plate	EACH	6
5/8"x9" Galv. Steel Bolts	EACH	6
L 4 x 4 x 3/8 x 3" Long	EACH	2
5/8" φ Anchor Rods	EACH	4
2 1/2" x 2 1/2" x 5/16" PL Washer	EACH	4
3/4" φ X 6 1/2" A307 Bolt	EACH	2

\* Only required with precast end section. Weight not included in Reinforcement Bars quantity.

### GENERAL NOTES:

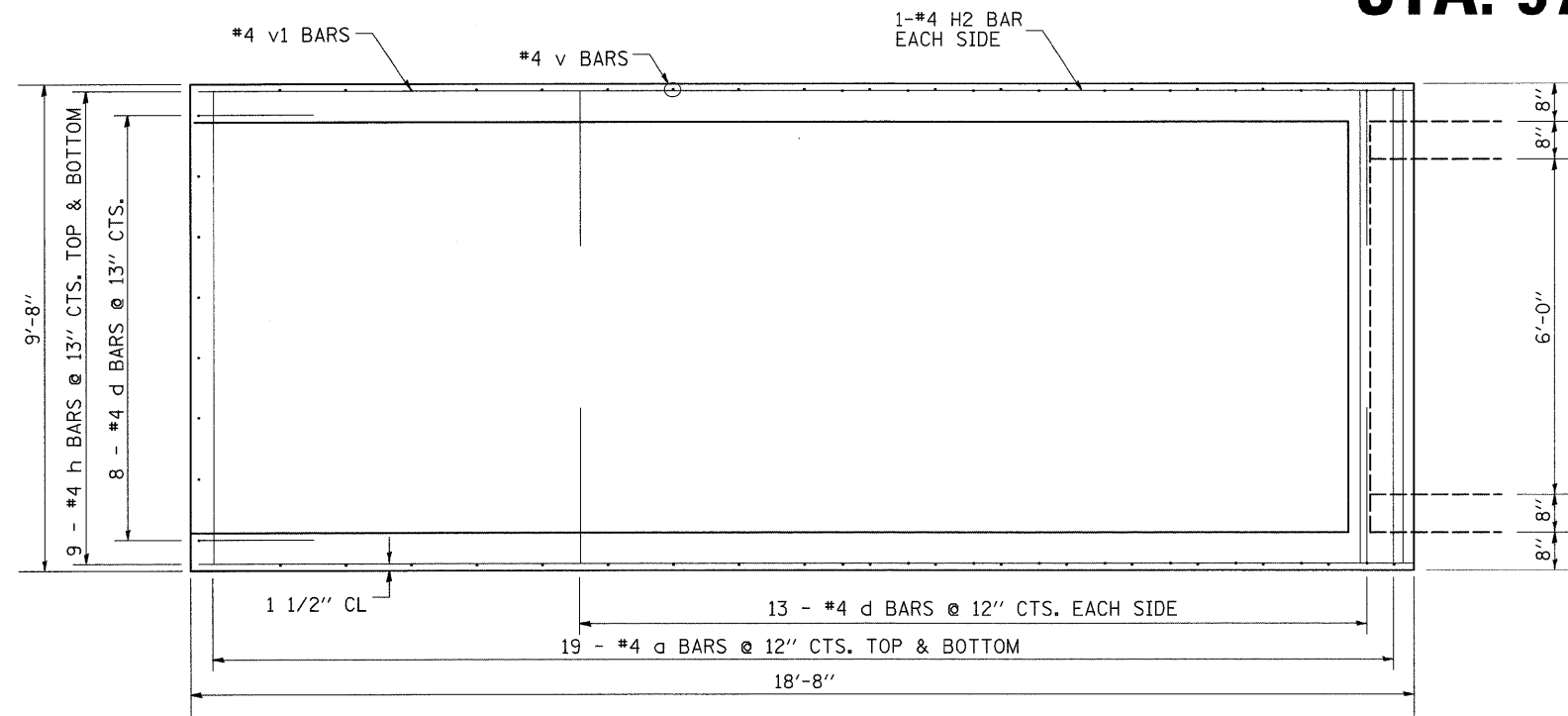
- This work shall be paid for at the contract unit price per Each for Box Culvert End Section No. 6.
- This work shall be done in accordance with the applicable portions of sections 503, 508, AND 540 of the Standard Specifications.
- Contractor shall field verify Galvanized pipe lengths.
- Exposed edges shall be beveled 3/4".
- The contract unit price "EACH" for Box Culvert End Section No. 6 shall include the Bolts, Galvanized pipe, Nuts, Washers, Anchor Rods, and pipe caps, Steel Plates, Reinforcement Bars, and Concrete Box Culverts.
- The Contractor has the option of using Precast construction for the end section.
- Contractor shall provide galvanizing for holes, threads, etc. for field-fabricated grate assembly.
- The cost of earth excavation, where required, and necessary grading to fit the inlet as shown in the cross-sections or to the slope is included in the cost of Box Culvert End Section No.6
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.
- Steel plates shall conform to AASHTO M-270 Grade 36 and shall be galvanized conforming to AASHTO M-111.
- Bolts, Nuts, Washers, and Anchor Rods shall be in accordance with article 505 of the Standard Specifications and shall be galvanized.
- See Plan and Profile Sheet for more information.
- See Cross Section Sheet for more information.

FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BOX CULVERT END SECTION CULVERT NO. 6</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CHECKED -	REVISED -			CONTRACT NO. 64E17				
		DATE -	REVISED -			SCALE:	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

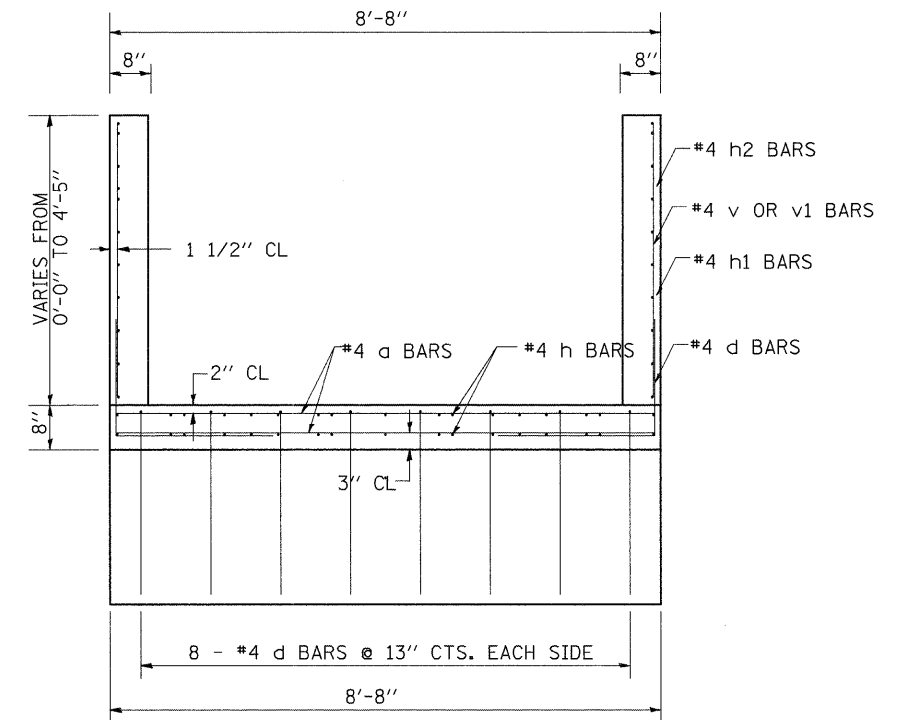


# BOX CULVERT END SECTION CULVERT NO. 7

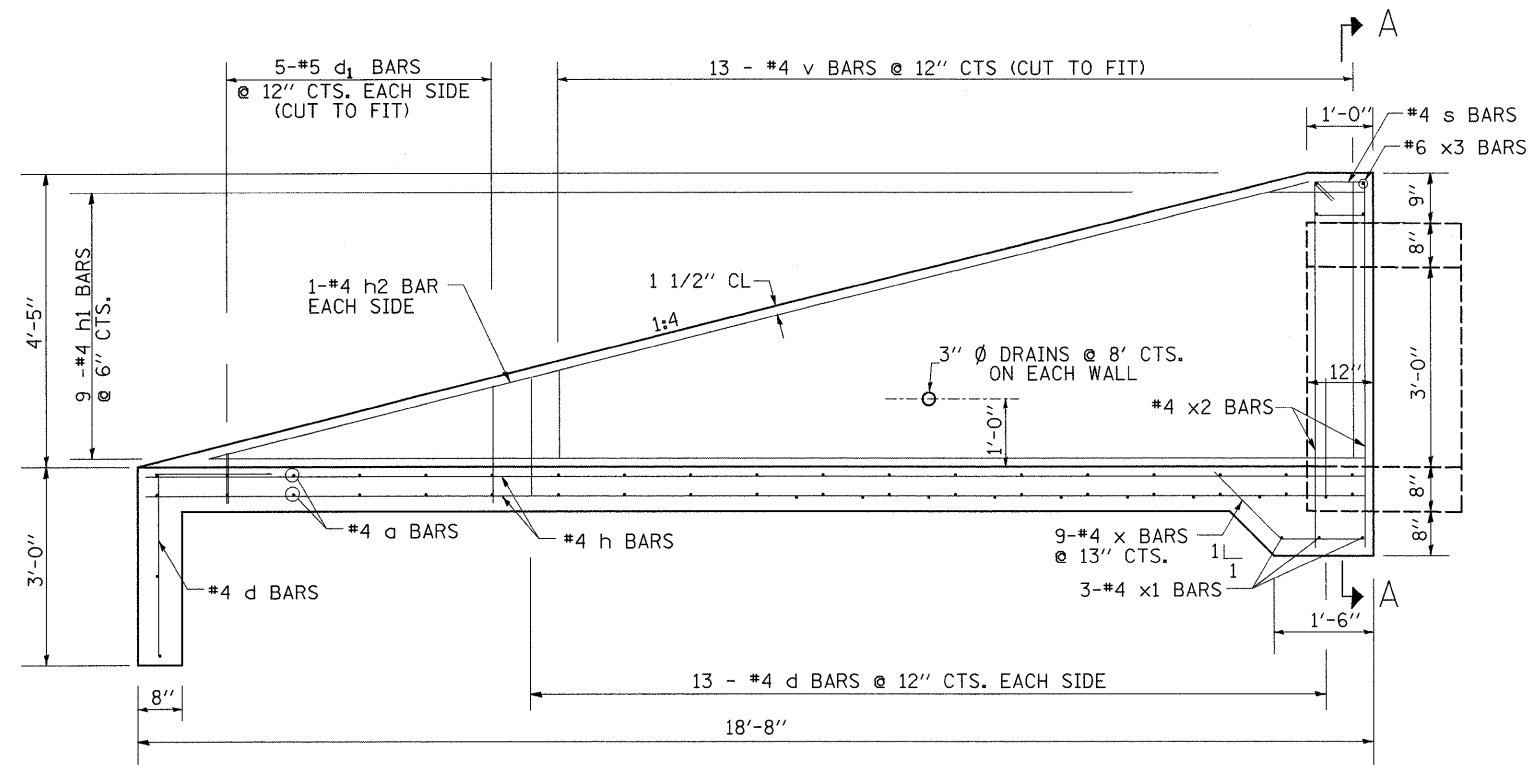
## STA. 974 + 38



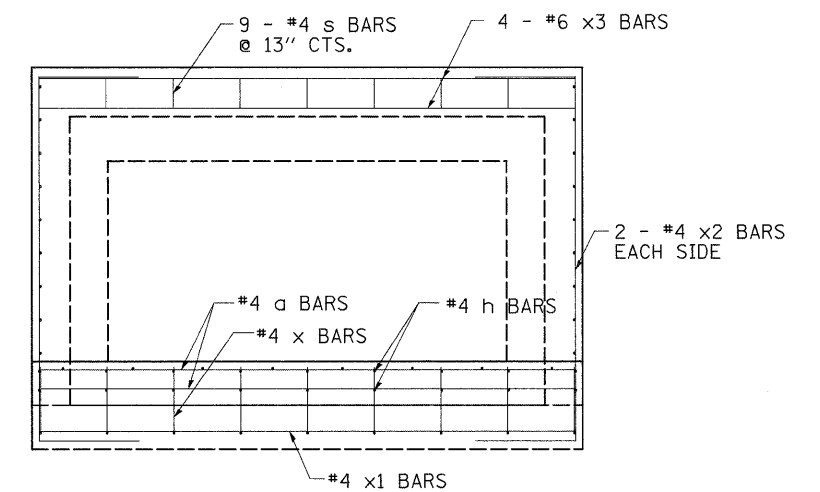
**PLAN VIEW**



**SECTION B-B**



**LONGITUDINAL SECTION**



**SECTION A-A**

FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BOX CULVERT END SECTION CULVERT NO. 7</b>	F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Wed Mar 31 08:57:13 2010	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64E17				
						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# BOX CULVERT END SECTION CULVERT NO. 7 STA. 974 + 38

## BILL OF MATERIALS (For Information Only)

BAR	NUMBER	SIZE	LENGTH	SHAPE
a	38	#4	8'-5"	—
d	34	#4	4'-6"	└
d <sub>1</sub>	5	#5	4'-6"	└
h	18	#4	18'-5"	—
h <sub>1</sub>	9	#4	19'-0"	—
h <sub>2</sub>	2	#4	17'-2"	—
s	9	#4	3'-3"	└
v	13	#4	5'-6"	—
x	9	#4	2'-8"	└
x <sub>1</sub>	3	#4	8'-5"	—
x <sub>2</sub>	4	#4	9'-0"	└
x <sub>3</sub>	4	#6	8'-5"	—
*x <sub>4</sub>	12	#4	12'-0"	└
DESCRIPTION			UNIT	QTY.
Concrete Box Culverts			CuYd	7.25
Reinforcement Bars			LBS	881

\* Only required with precast end section. Weight not included in Reinforcement Bars quantity.

### GENERAL NOTES:

This work shall be paid for at the contract unit price per Each for Box Culvert End Section No. 7.

This work shall be done in according to the applicable portion of sections 503, 508, AND 540 of the Standard Specifications.

Exposed edges shall be beveled  $\frac{3}{4}$ ".

The contract unit price "EACH" for Box Culvert End Section No. 7 shall include Reinforcement Bars, and Class SI Concrete.

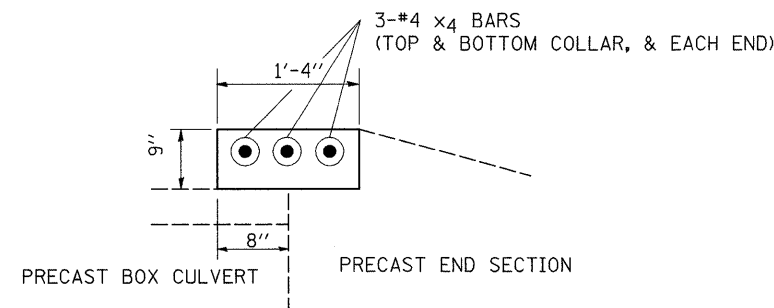
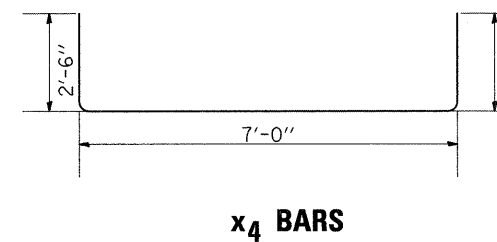
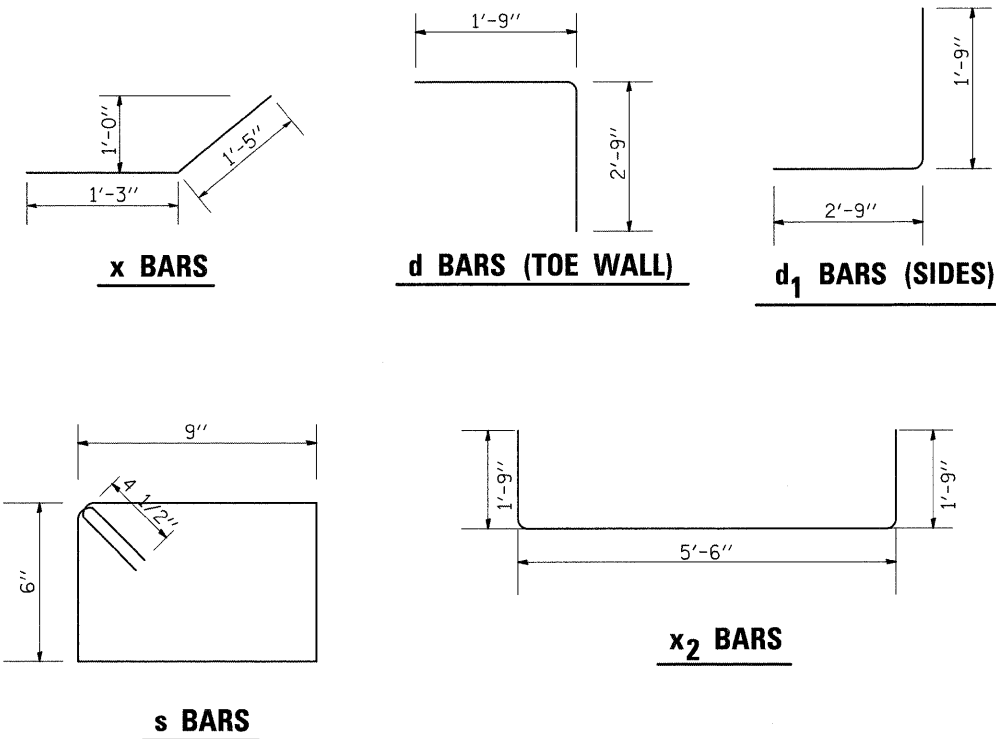
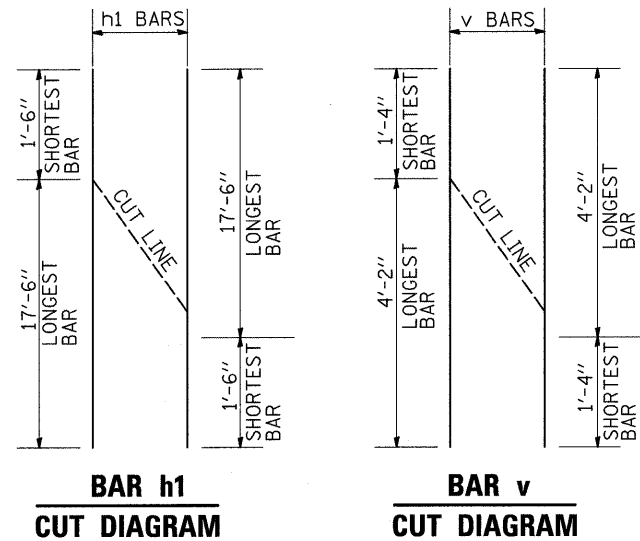
The Contractor has the option of using Precast construction for the end section, if so the concrete collar will also be included in the cost of Box Culvert End Section No. 7.

The cost of earth excavation, where required, and necessary grading to fit the inlet as shown in the cross-sections or to the slope is included in the cost of Box Culvert End Section No. 7.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.

See Plan and Profile Sheet for more information.

See Cross Section Sheet for more information.



COLLAR DETAIL "PRECAST OPTION ONLY"

FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED -
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PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Wed Mar 31 08:57:13 2010		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

## BOX CULVERT END SECTION CULVERT NO. 7

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	182
CONTRACT NO. 64E17				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



# BOX CULVERT END SECTION, CULVERT NO. 8 STA. 1011 + 71

## BILL OF MATERIALS (For Information Only)

BAR	NO.	SIZE	LENGTH	SHAPE	DESCRIPTION	UNIT	QUANTITY
a	66	#5	18'-0"	—	Concrete Box Culverts	Cu. Yd.	19.2
					Reinforcement Bars	LBS	3,000
d	18	#5	4'-6"	└	4" I.D. Galv. Steel Pipe	3 $\odot$	18'-7"
						6 $\odot$	23'-4"
d <sub>1</sub>	62	#5	4'-6"	└	4" Galv. Pipe Caps	Each	12
h	38	#4	26'-5"	—	1/4" Galv. Steel Plate (9" Nominal)	Each	6
					1/2" x 4" x 15" Galv. Steel Plate	Each	6
h <sub>1</sub>	7	#4	26'-10"	—	5/8" x 10" Galv. Steel Bolts	Each	18
h <sub>2</sub>	4	#6	26'-2"	—	1/2" Dia. Galv. Expansion Bolts	Each	12
h <sub>3</sub>	7	#6	18'-0"	—	L4 1/2 x 4 1/2 x 3/8 x 3" Long	Each	12
s	19	#4	3'-3"	└	5/8" Anchor Rods	Each	12
v	23	#4	7'-10"	—	2 1/2" x 2 1/2" x 3/16" PL Washer	Each	12
x	18	#4	4'-1"	—	3/4" x 7" A307 Bolt	Each	6
x <sub>1</sub>	4	#4	11'-0"	—			
*x <sub>2</sub>	12	#4	21'-5"	—			

\* Only required with precast end section. Weight not included in Reinforcement Bars quantity.

### GENERAL NOTES

This work shall be paid for at the contract unit price per Each for Box Culvert End Section, Culvert No. 8.

This work shall be done in accordance with the applicable portion of sections 503, 508, and 540 of the Standard Specifications.

Steel pipes shall conform to ASTM A-53 (Type E or S) Grade B, Schedule 40, and shall be galvanized conforming to ASTM A-53. Contractor shall field verify pipe lengths.

Exposed edges shall be beveled 3/4".

The contract unit price "EACH" for Box Culvert End Section, Culvert No. 8 shall include the Bolts, Galvanized pipe, Nuts, Washers, Anchor Rods, pipe caps, Steel Plates, Reinforcement Bars, and Concrete Box Culverts.

The Contractor has the option of using precast construction for the end section. If used, the concrete collar will also be included in the cost of Box Culvert End Section, Culvert No. 8.

Contractor shall provide galvanizing for holes, threads, etc. for field fabricated gate assembly.

The cost of earth excavation, where required, and necessary grading to fit the inlet as shown in the cross sections or to the slope is included in the cost of Box Culvert End Section, Culvert No. 8.

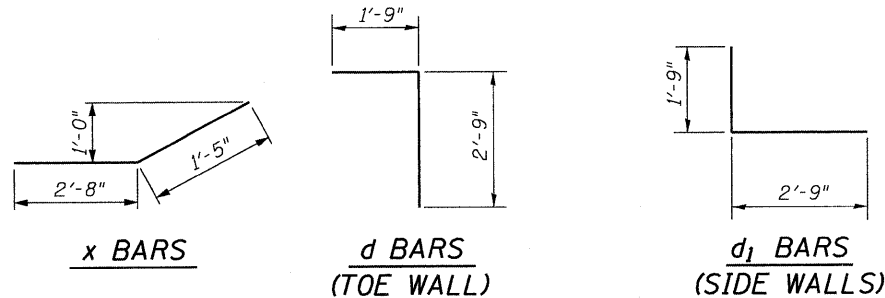
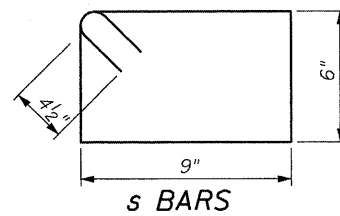
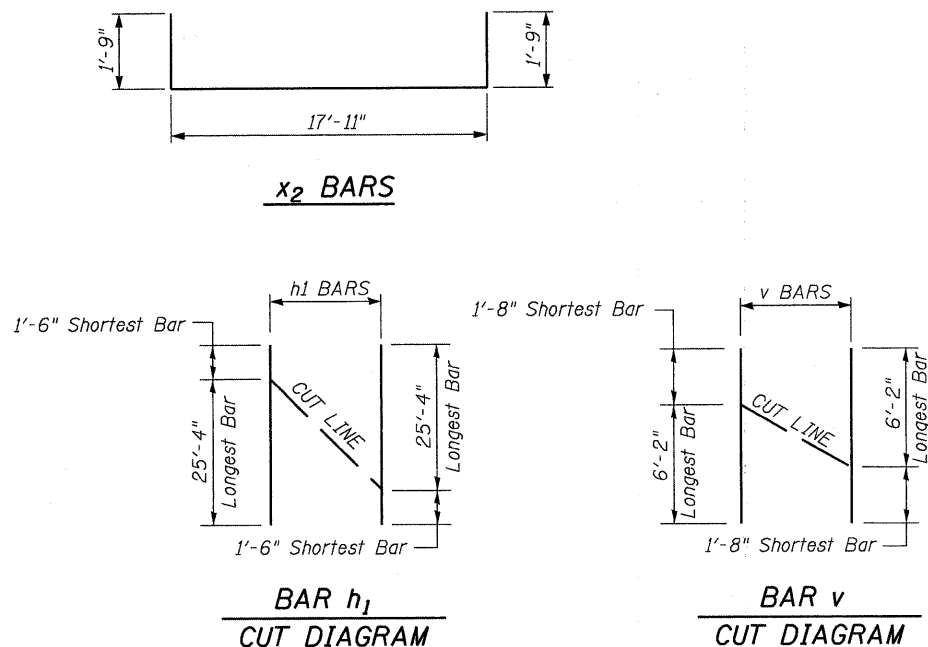
Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60 (IL Modified). See Special Provisions.

Steel Plates shall conform to AASHTO M-270 Grade 36 and shall be galvanized conforming to AASHTO M-111.

Bolts, Nuts, Washers, and Anchor Rods shall be done in accordance with article 505 of the Standard Specifications and shall be galvanized.

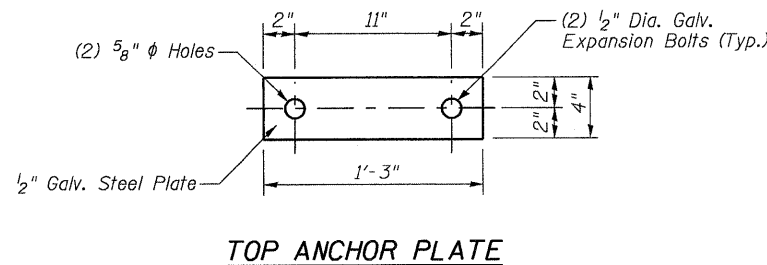
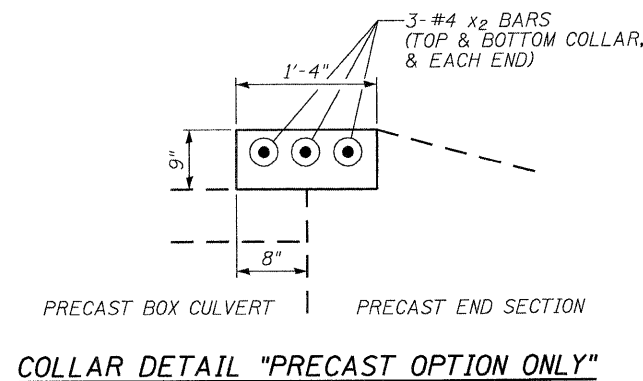
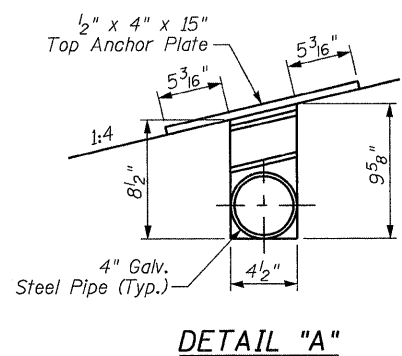
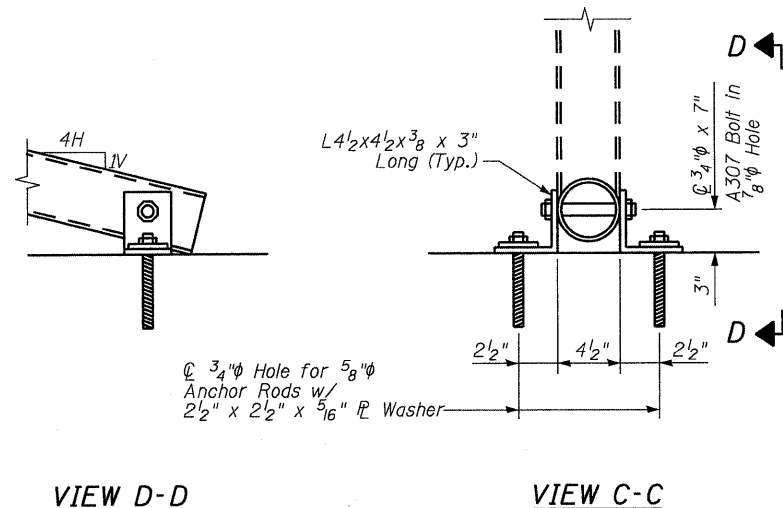
See Plan and Profile Sheet for more information.

See Cross Section Sheet for more information.



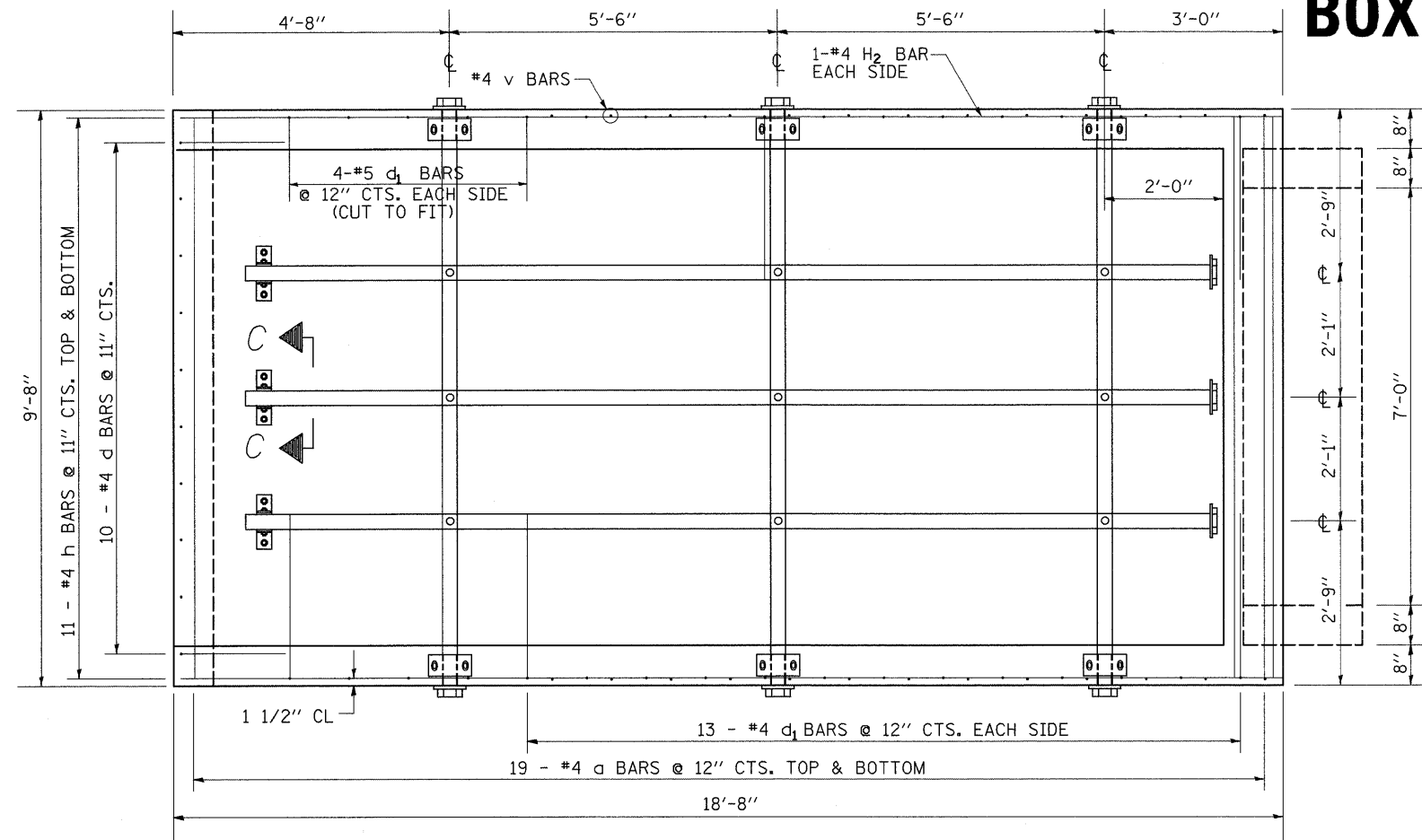
### MINIMUM BAR LAP

#4 = 1'-8"  
 #5 = 2'-2"

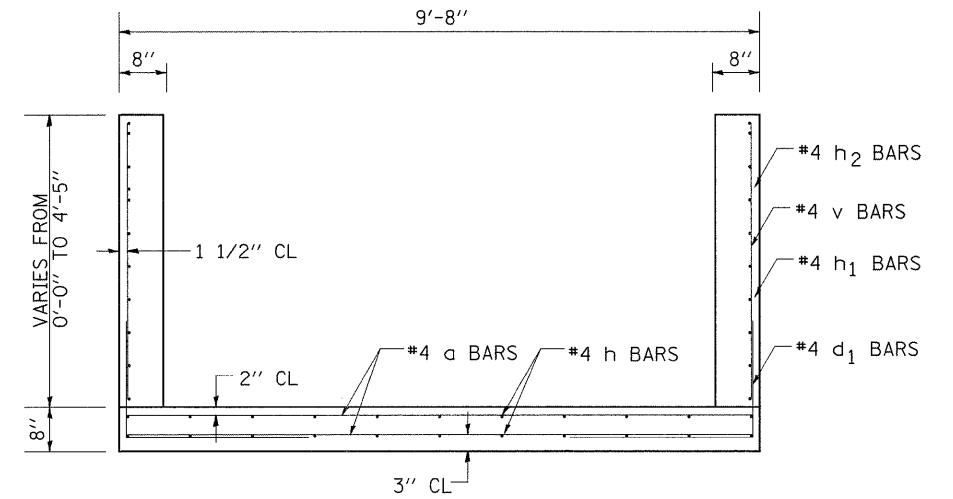


FILE NAME =	USER NAME =	DESIGNED - GSS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CULVERT END SECTION NO. 8</b>			F.A.P. RTE. 742	SECTION 37 R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 184
PLDT SCALE =	CHECKED - CTH	REVISED -	REVISED -					SCALE:	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
PLDT DATE = 3/2/2010	DATE - 3/2/2010	REVISED -	REVISED -									

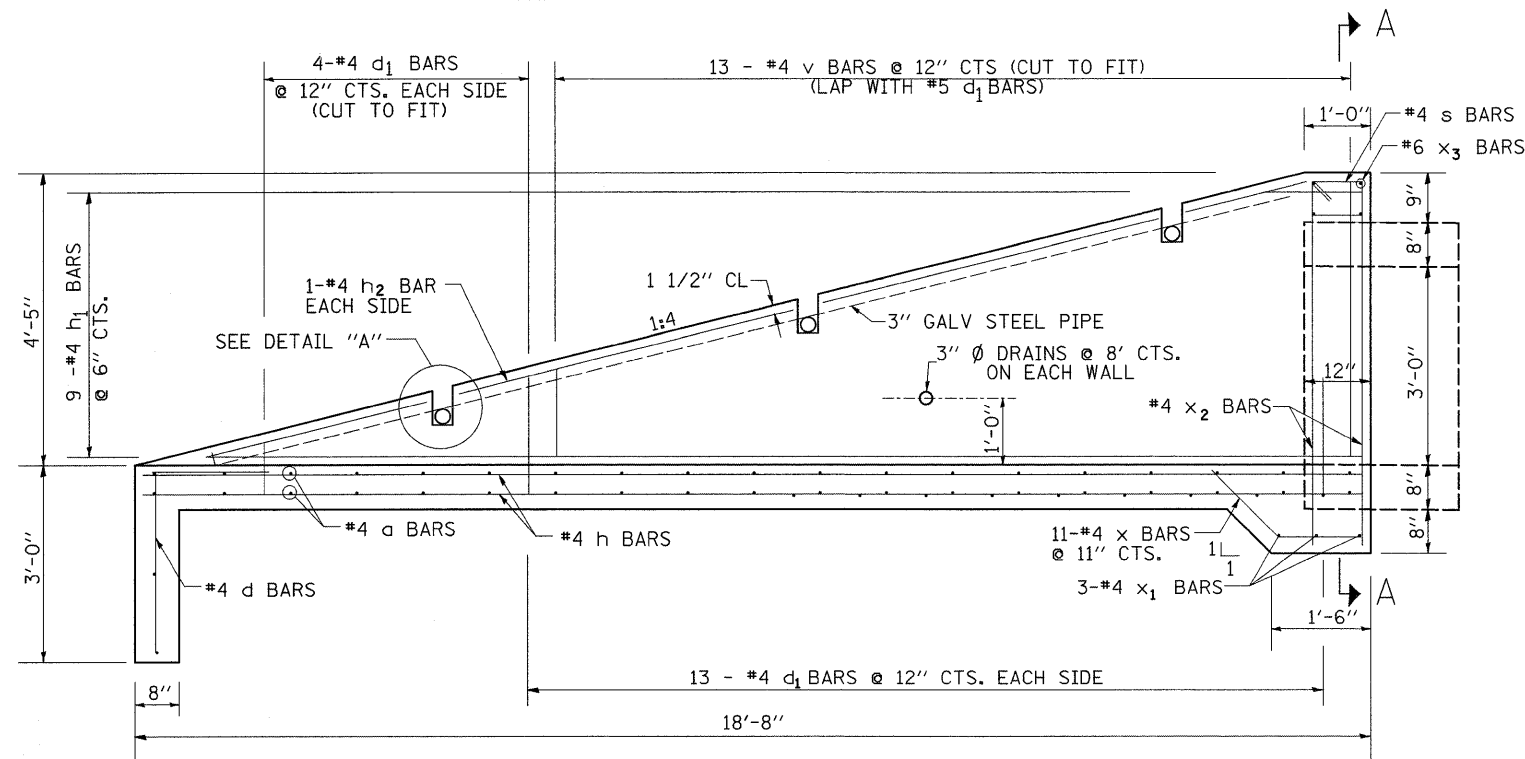
# BOX CULVERT END SECTION CULVERT NO. 9 STA. 1023 + 85



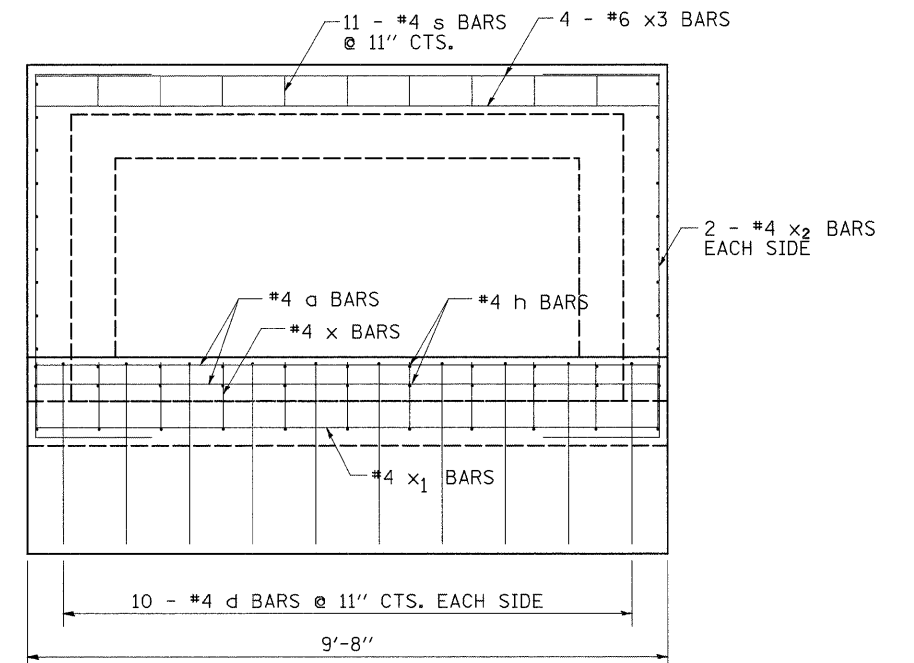
**PLAN VIEW**



**SECTION THRU END SECTION**



**LONGITUDINAL SECTION**

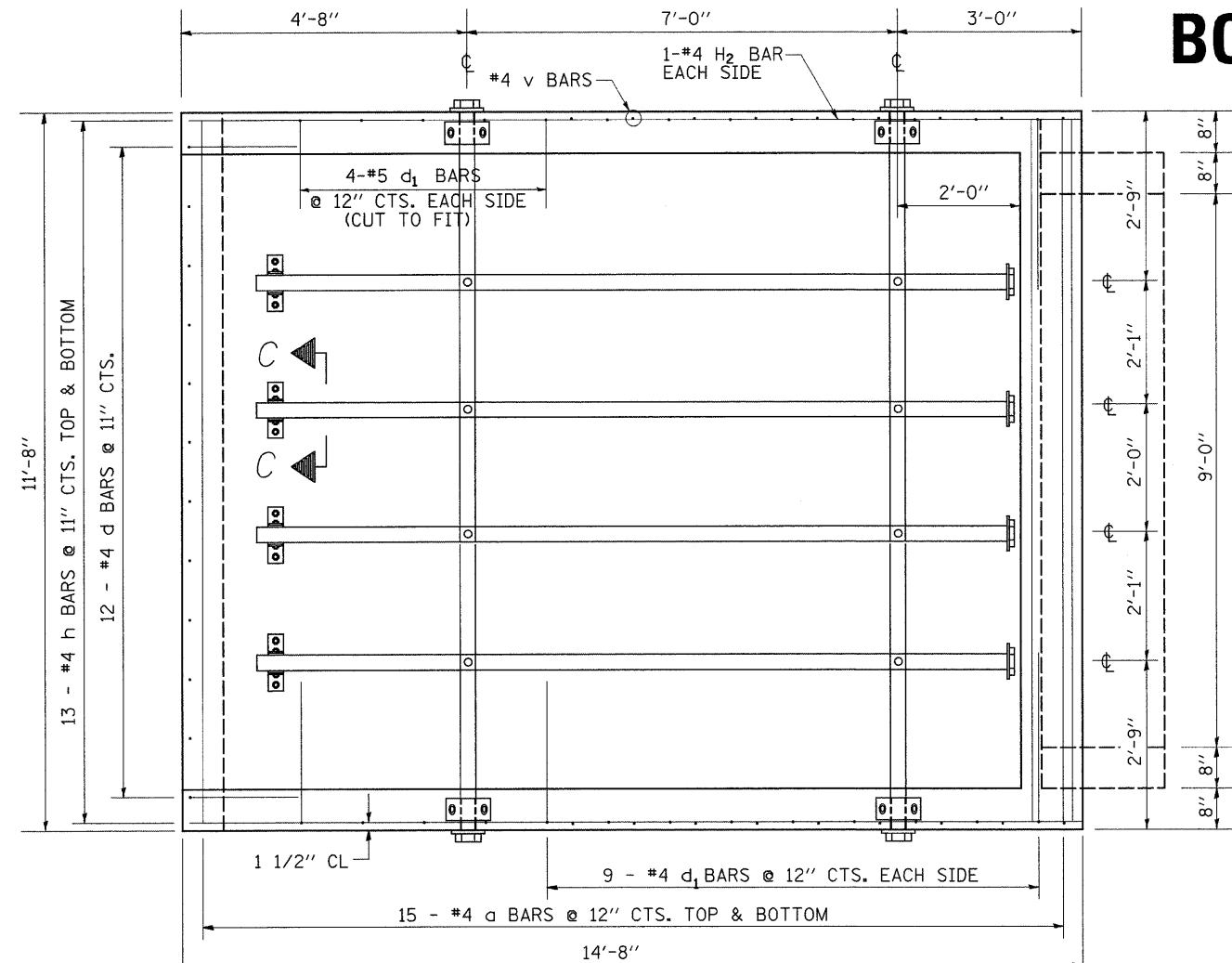


**SECTION A-A**

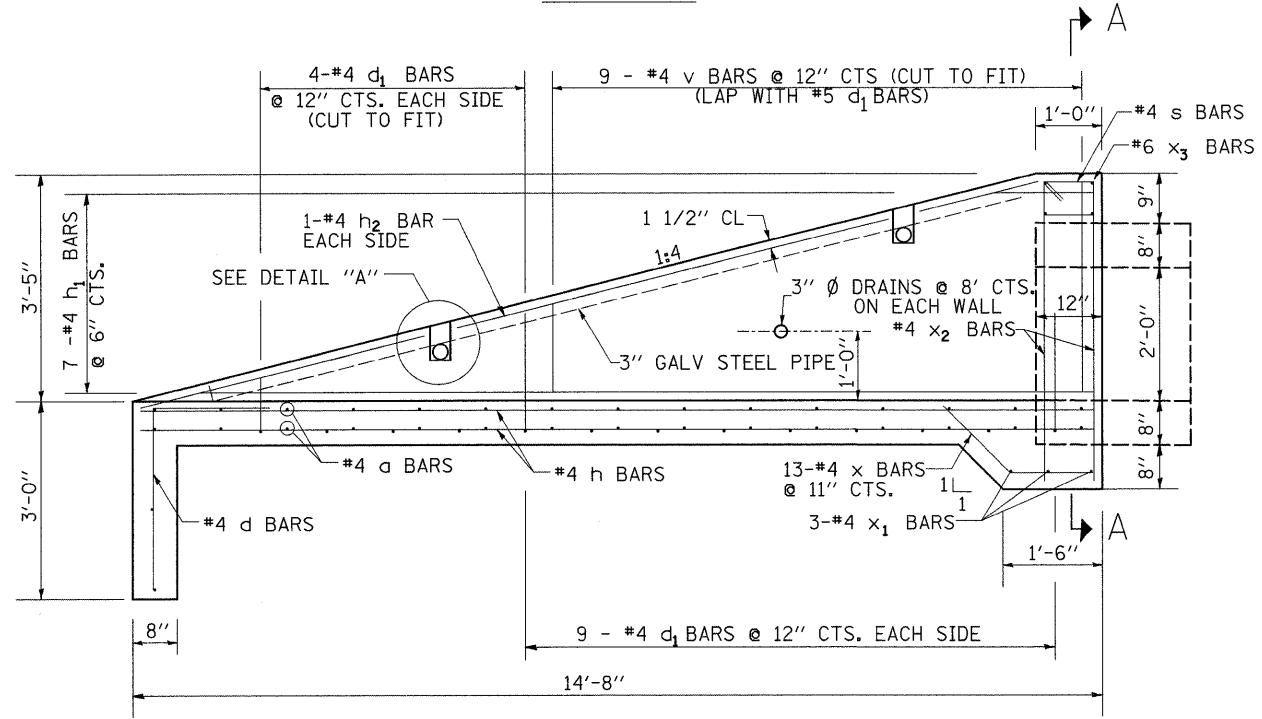
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cr:\pwork\p\WIDOT\CUSHMANBW\dms31213\d06608culvdetail.dgn		DRAWN -	REVISED -			742	37R-4	OGLE	867	185
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64E17				
PLOT DATE = Wed Mar 31 08:57:14 2010		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
					SCALE:	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.		



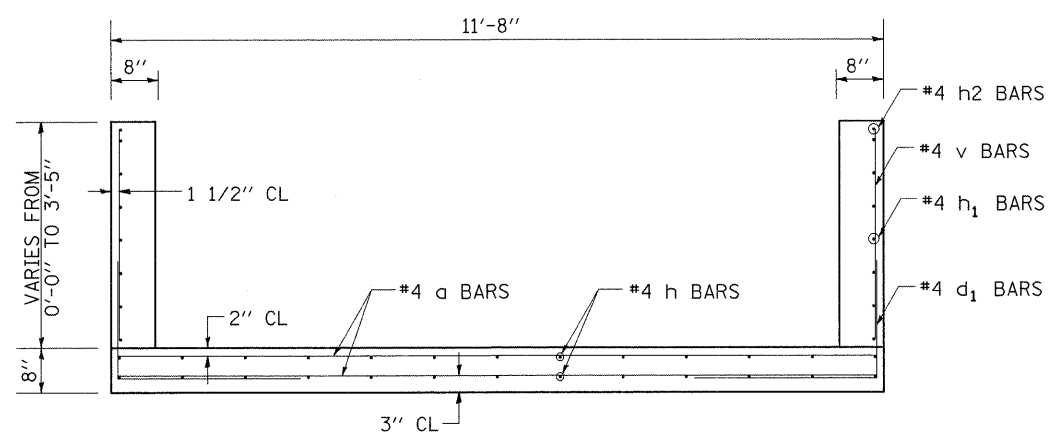
# BOX CULVERT END SECTION CULVERT NO. 10 STA. 1042 + 23



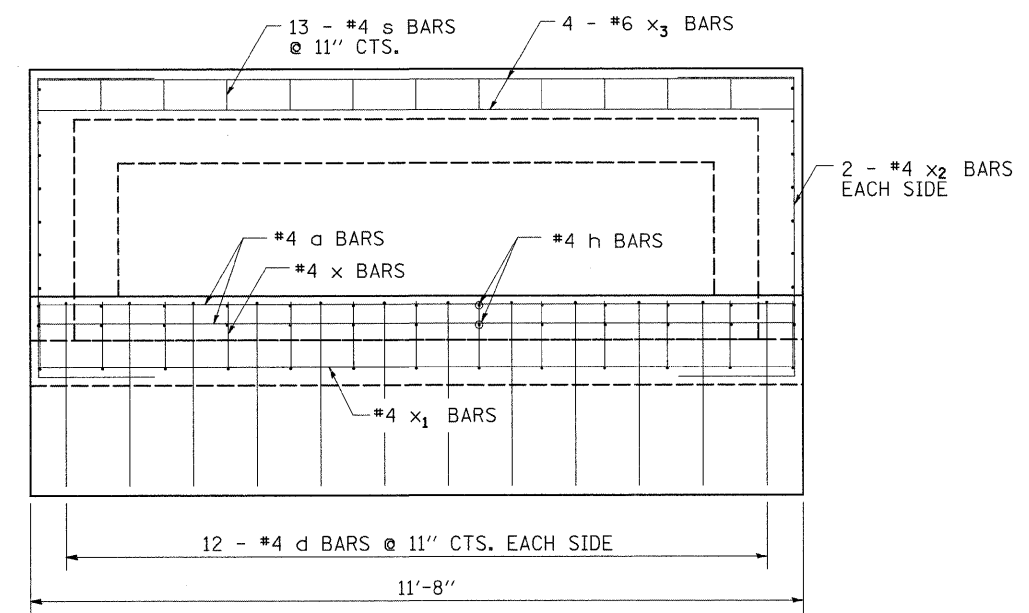
**PLAN VIEW**



**LONGITUDINAL SECTION**



**SECTION THRU END SECTION**



**SECTION A-A**

FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BOX CULVERT END SECTION CULVERT NO. 10</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwork\p\104201\CUSHMANBW\dms31213\dms31213.dwg	66808\ulvdetail.dgn	DRAWN -	REVISED -			742	37R-4	OGLE	867	187
		CHECKED -	REVISED -			CONTRACT NO. 64E17				
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.			

# BOX CULVERT END SECTION CULVERT NO. 10 STA. 1042 + 23

## BILL OF MATERIALS

(For Information Only)

BAR	NUMBER	SIZE	LENGTH	SHAPE
a	30	#4	11'-5"	—
d	30	#4	4'-6"	└
d <sub>1</sub>	8	#4	4'-6"	└
h	26	#4	14'-5"	—
h <sub>1</sub>	7	#4	15'-0"	—
h <sub>2</sub>	2	#4	14'-0"	—
s	13	#4	3'-3"	└
v	9	#4	4'-6"	—
x	13	#4	2'-8"	└
x <sub>1</sub>	3	#4	11'-5"	—
x <sub>2</sub>	4	#4	8'-0"	└
x <sub>3</sub>	4	#6	11'-5"	—
*x <sub>4</sub>	12	#4	11'-0"	└

DESCRIPTION	UNIT	QTY.
Concrete Box Culverts	CuYd	7.1
Reinforcement Bars	LBS	874
3" I.D. Galv Steel Pipe	2 @	12'-0"
	4 @	12'-3"
3" Galv Pipe Caps	EACH	12
1/2" Dia. Galv. Expansion Bolts	EACH	8
1/4" Galv Steel Plate (9" Nominal)	EACH	4
1/2"x4"x14" Galv Steel Plate	EACH	4
5/8"x9" Galv Steel Bolts	EACH	8
L 4 x 4 x3/8 x 3" Long	EACH	4
5/8" φ Anchor Rods	EACH	8
2 1/2" x 2 1/2" x 5/16" PL Washer	EACH	8
3/4" φ X 6 1/2" A307 Bolt	EACH	4

\* Only required with precast end section. Weight not included in Reinforcement Bars quantity.

### GENERAL NOTES:

This work shall be paid for at the contract unit price per Each for Box Culvert End Section No. 10.

This work shall be done in accordance to the applicable portions of sections 503, 508, AND 540 of the Standard Specifications.

Contractor shall field verify Galvanized pipe lengths.

Exposed edges shall be beveled 3/4".

The contract unit price "EACH" for Box Culvert End Section No. 10 shall include the Bolts, Galvanized pipe, Nuts, Washers, Anchor Rods, and pipe caps, Steel Plates, Reinforcement Bars, and Concrete Box Culverts.

The Contractor has the option of using Precast construction for the end section, if so the concrete collar will also be included in the cost of Box Culvert End Section No. 10

Contractor shall provide galvanizing for holes, threads, etc. for field-fabricated grate assembly.

The cost of earth excavation, where required, and necessary grading to fit the inlet as shown in the cross-sections or to the slope is included in the cost of Box Culvert End Section No. 10

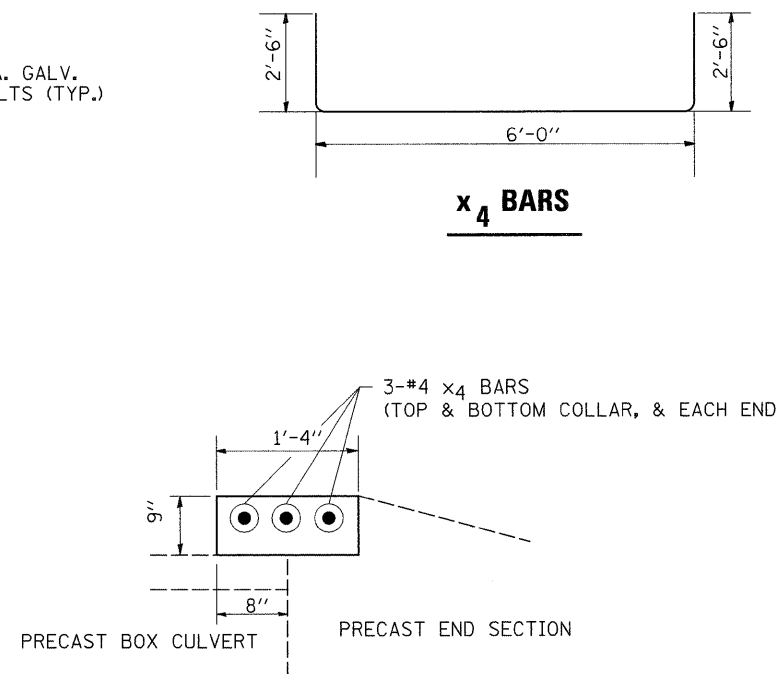
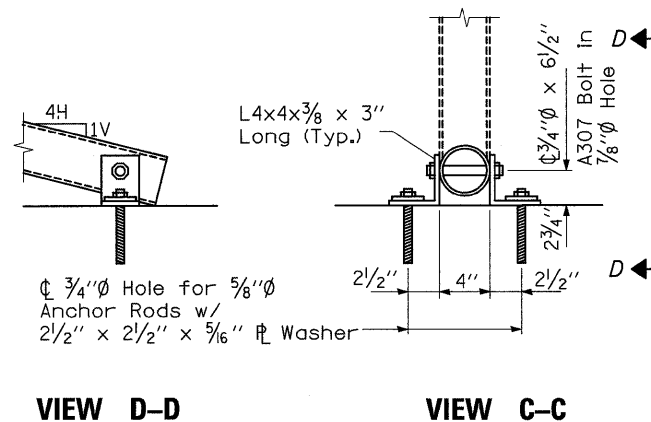
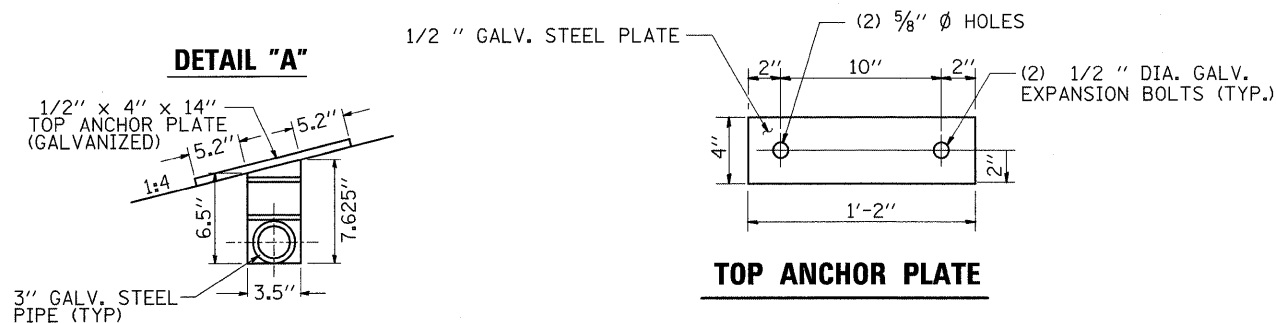
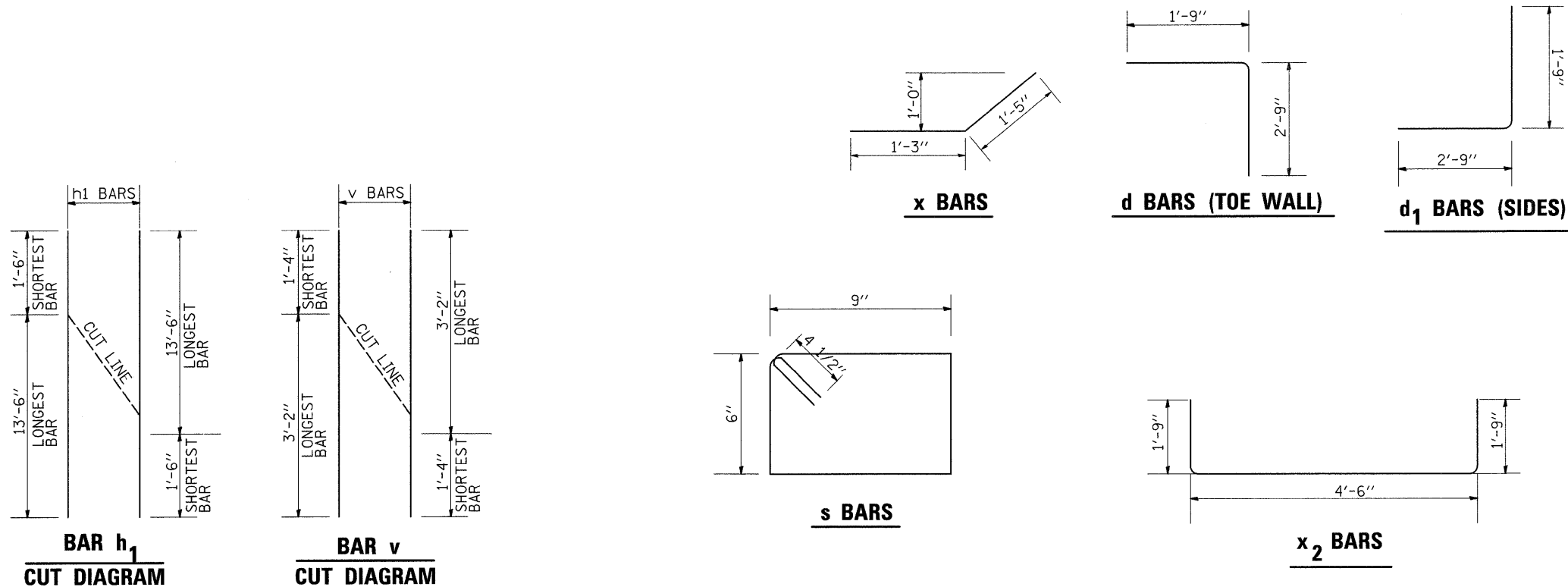
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.

Steel plates shall conform to AASHTO M-270 Grade 36 and shall be galvanized conforming to AASHTO M-111.

Bolts, Nuts, Washers, and Anchor Rods shall be in accordance with article 505 of the Standard Specifications and shall be galvanized.

See Plan and Profile Sheet for more information.

See Cross Section Sheet for more information.

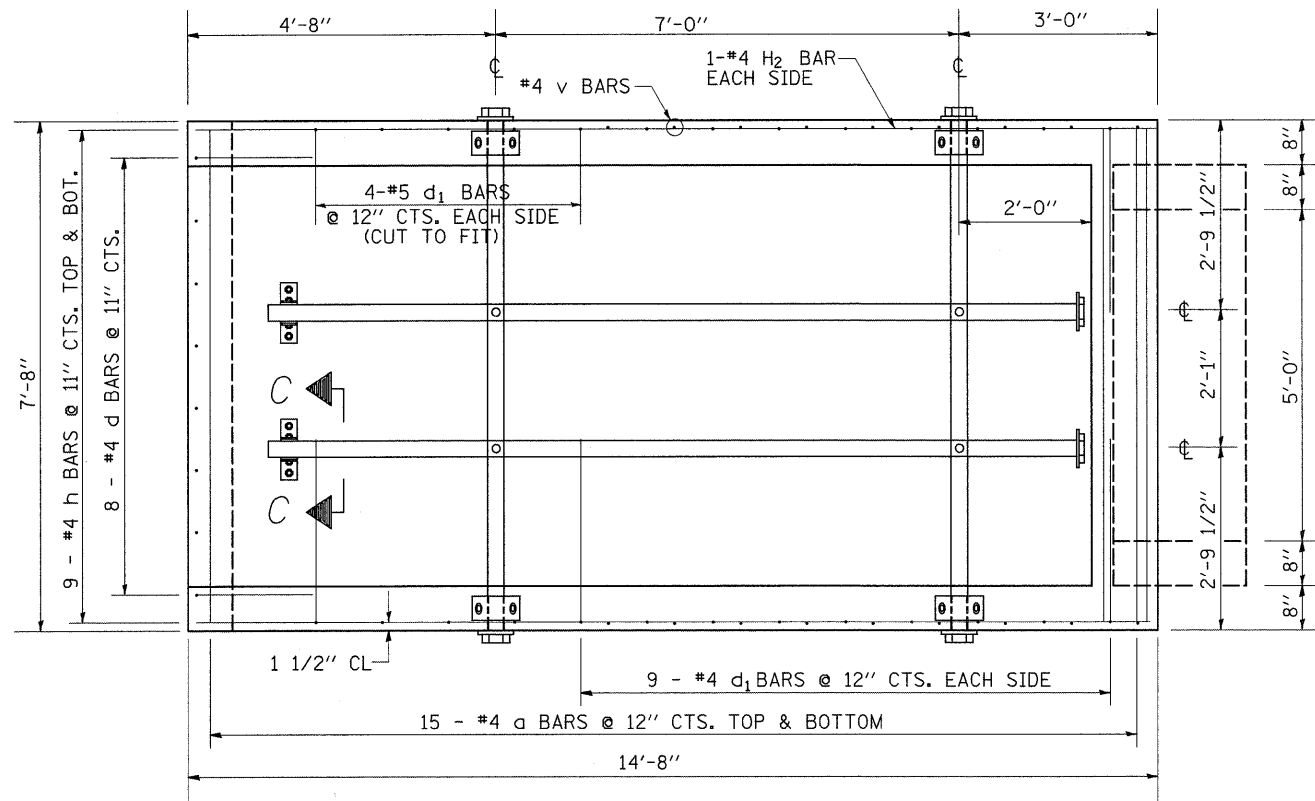


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PLOT DATE = Wed Mar 31 08:57:45 2010		DATE -	REVISED -				
<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>BOX CULVERT END SECTION CULVERT NO. 10</b>			
SCALE:		SHEET NO. 1 OF 2 SHEETS		STA. TO STA.		TOTAL SHEETS 188	
						CONTRACT NO. 64E17	
						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

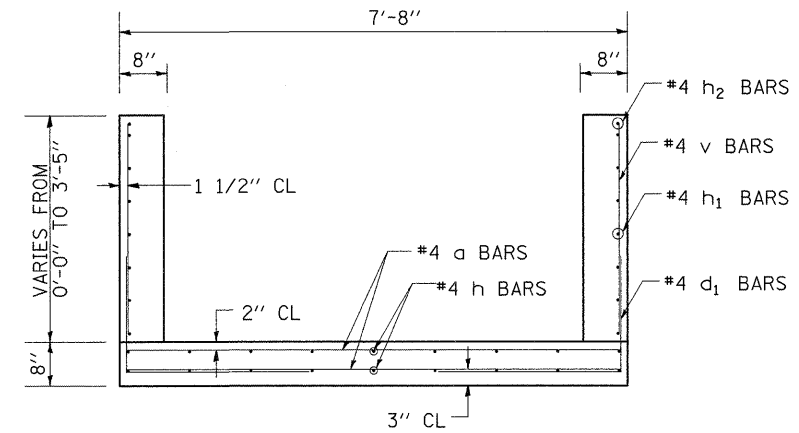


# BOX CULVERT END SECTION CULVERT NO. 11

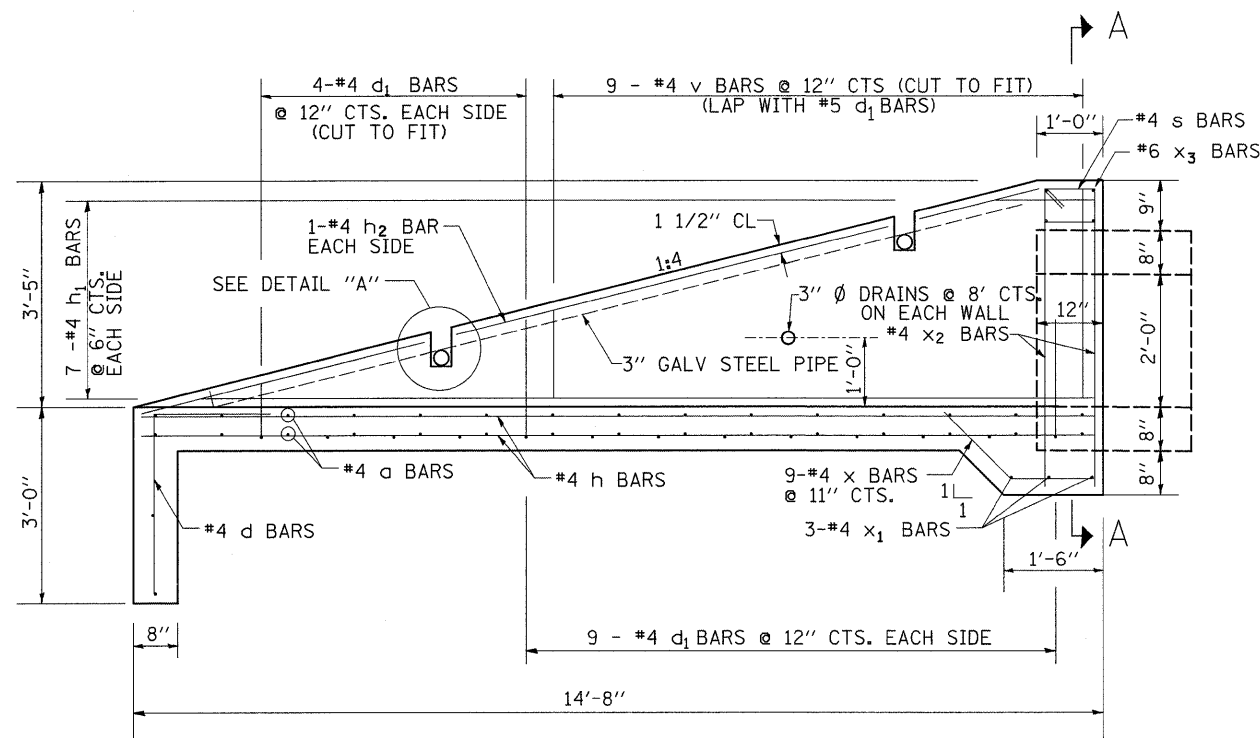
## STA. 1050 + 36



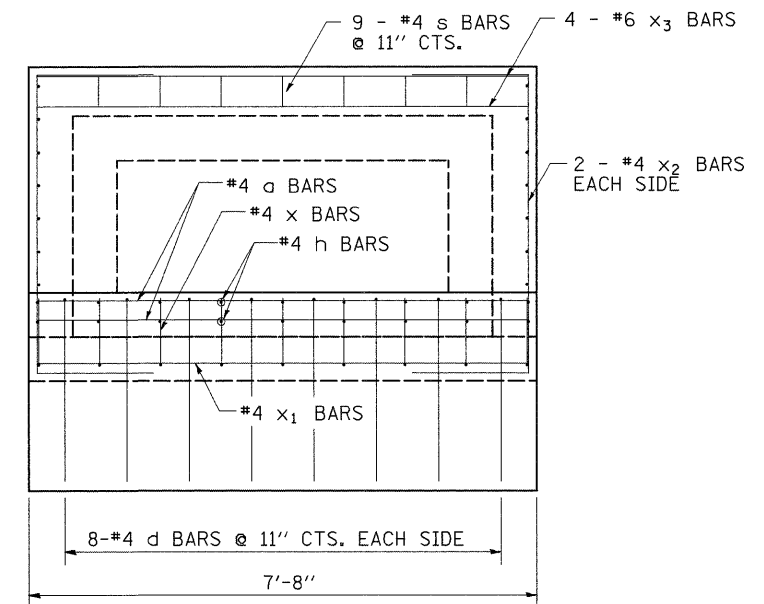
**PLAN VIEW**



**SECTION THRU END SECTION**



**LONGITUDINAL SECTION**



**SECTION A-A**

FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BOX CULVERT END SECTION CULVERT NO. 11</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pwork\pwork\PIWID07\CUSHMANBW\dms31213\dms31213.dgn	6680ulvdetail.dgn	DRAWN -	REVISED -			742	37R-4	OGLE	867	189	
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PLOT DATE = Wed Mar 31 08:57:15 2010		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

# BOX CULVERT END SECTION CULVERT NO. 11 STA. 1050 + 36

## BILL OF MATERIALS

(For Information Only)

BAR	NUMBER	SIZE	LENGTH	SHAPE
a	30	#4	7'-5"	—
d	26	#4	4'-6"	└
d <sub>1</sub>	8	#4	4'-6"	└
h	18	#4	14'-5"	—
h <sub>1</sub>	7	#4	15'-0"	—
h <sub>2</sub>	2	#4	14'-0"	—
s	9	#4	3'-3"	└
v	9	#4	4'-6"	—
x	9	#4	2'-8"	└
x <sub>1</sub>	3	#4	7'-5"	—
x <sub>2</sub>	4	#4	8'-0"	└
x <sub>3</sub>	4	#6	7'-5"	—
*x <sub>4</sub>	12	#4	8'-9"	└

DESCRIPTION	UNIT	QTY.
Concrete Box Culverts	CuYd	5.1
Reinforcement Bars	LBS	656
3" I.D. Galv Steel Pipe	2 @	8'-0"
	2 @	12'-4"
1/2" Dia. Galv. Expansion Bolts	EACH	8
3" Galv Pipe Caps	EACH	8
1/4" Galv Steel Plate (9" Nominal)	EACH	4
1/2"x4"x14" Galv Steel Plate	EACH	4
5/8"x9" Galv Steel Bolts	EACH	4
L 4 x 4 x 3/8 x 3" Long	EACH	2
5/8" φ Anchor Rods	EACH	4
2 1/2" x 2 1/2" x 5/16" PL Washer	EACH	4
3/4" φ X 6 1/2" A307 Bolt	EACH	2

\* Only required with precast end section. Weight not included in Reinforcement Bars quantity.

### GENERAL NOTES:

This work shall be paid for at the contract unit price per Each for Box Culvert End Section No. 11.

This work shall be done in accordance with the applicable portions of sections 503, 508, AND 540 of the Standard Specifications.

Contractor shall field verify Galvanized pipe lengths.

Exposed edges shall be beveled 3/4".

The contract unit price "EACH" for Box Culvert End Section No. 11 shall include the Bolts, Galvanized pipe, Nuts, Washers, Anchor Rods, and pipe caps. Steel Plates, Reinforcement Bars, and Concrete Box Culverts.

The Contractor has the option of using Precast construction for the end section, if so the concrete collar will also be included in the cost of Box Culvert End Section No. 11.

Contractor shall provide galvanizing for holes, threads, etc. for field-fabricated grate assembly.

The cost of earth excavation, where required, and necessary grading to fit the inlet as shown in the cross-sections or to the slope is included in the cost of Box Culvert End Section No. 11.

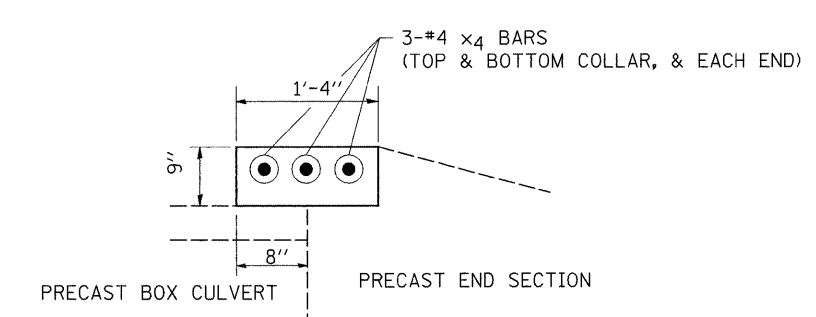
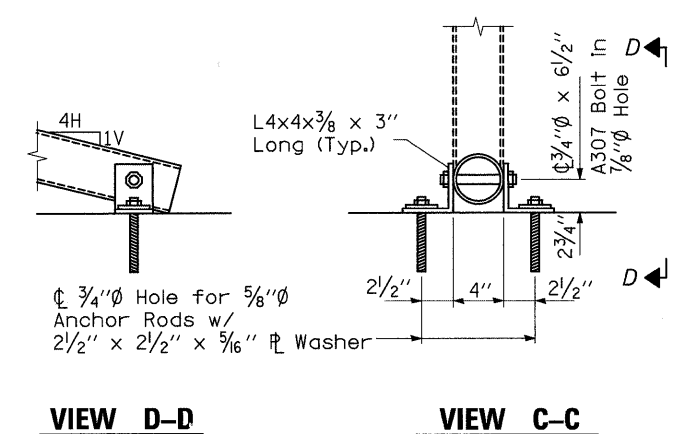
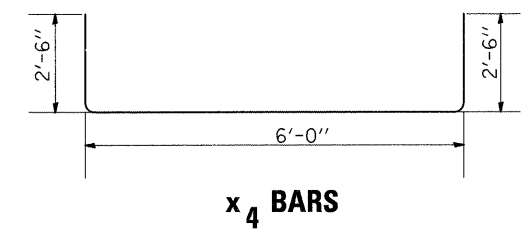
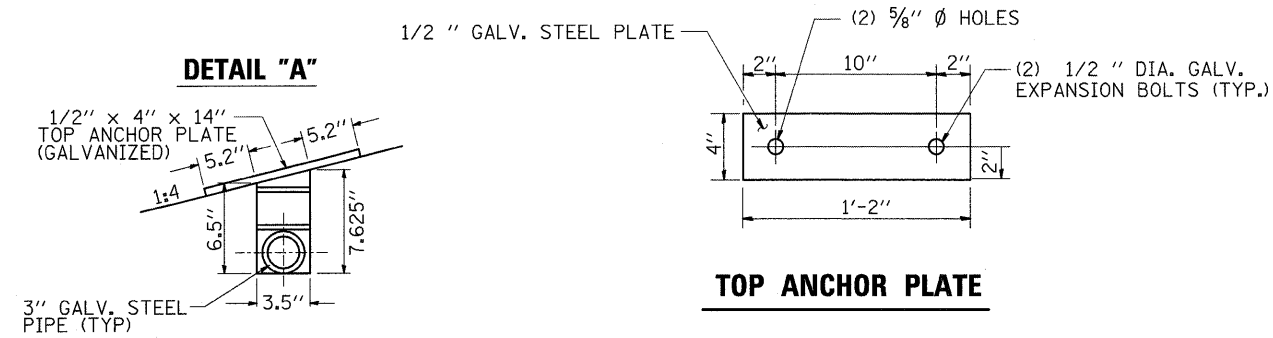
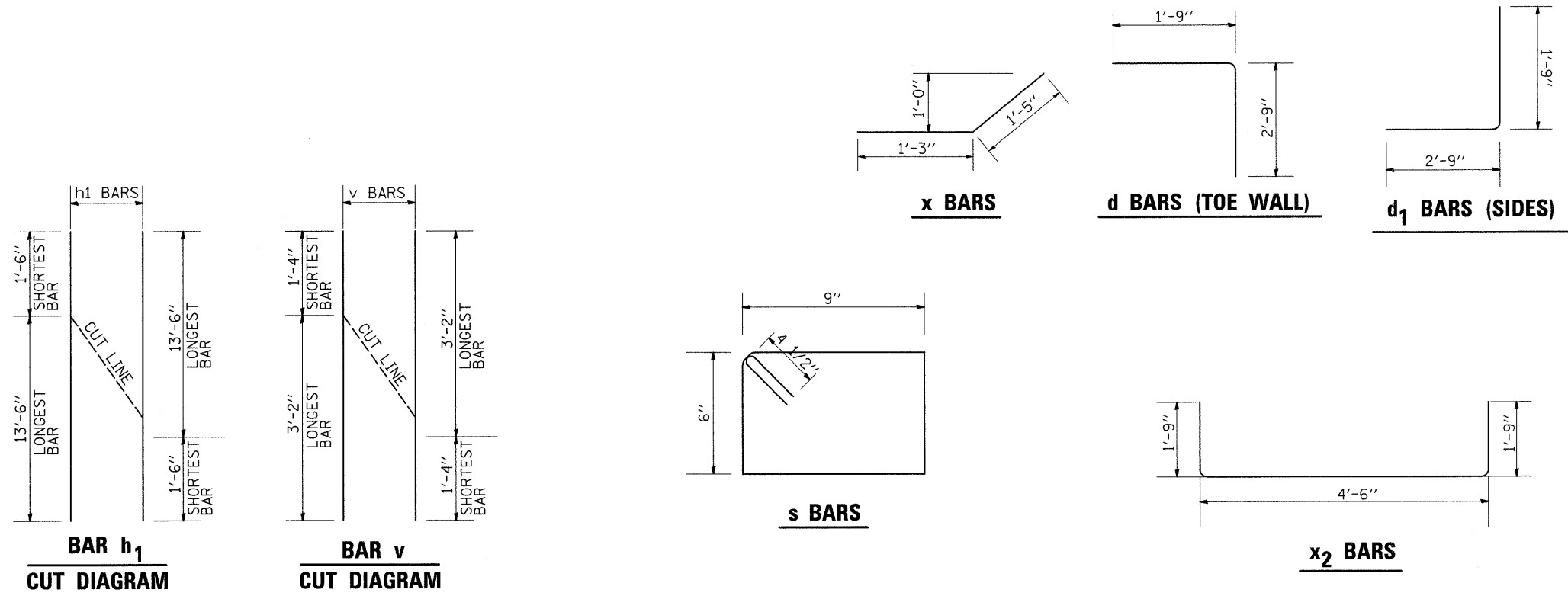
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.

Steel plates shall conform to AASHTO M-270 Grade 36 and shall be galvanized conforming to AASHTO M-111.

Bolts, Nuts, Washers, and Anchor Rods shall be in accordance with article 505 of the Standard Specifications and shall be galvanized.

See Plan and Profile Sheet for more information.

See Cross Section Sheet for more information.



Benchmark: Railroad spike in tree at Sta. 818+63.87, 56.39' RT. Elev. = 683.74  
 Existing Structure: S.N. 071-1107, Single Barrel 10' X 7.5' R.C. Box Culvert at proposed IL. Rte. 2  
 Station 832+39.52 with a culvert length of ±48'. No salvage.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

HIGHWAY INFORMATION

F.A.P. 742 - IL. Rte. 2  
 Functional Class: Other Principal Arterial  
 ADT: 8950 (2005); 10,350 (2025)  
 ADTT: 7.5% (2005)  
 DHV: 1035 (2025)  
 Design Speed: 55 m.p.h.  
 Posted Speed: 55 m.p.h.  
 2 Way Traffic

DESIGN STRESSES

Field Units  
 $f_y = 60,000$  psi  
 $f'_c = 3,500$  psi

SHEET INDEX

NO.	DESCRIPTION
1	GENERAL PLAN & ELEVATION
2	GENERAL NOTES & TOTAL BILL OF MATERIALS
3	CULVERT DETAILS
4-5	BORING LOGS

DESIGN SPECIFICATIONS  
 2002 A.A.S.H.T.O. Specifications

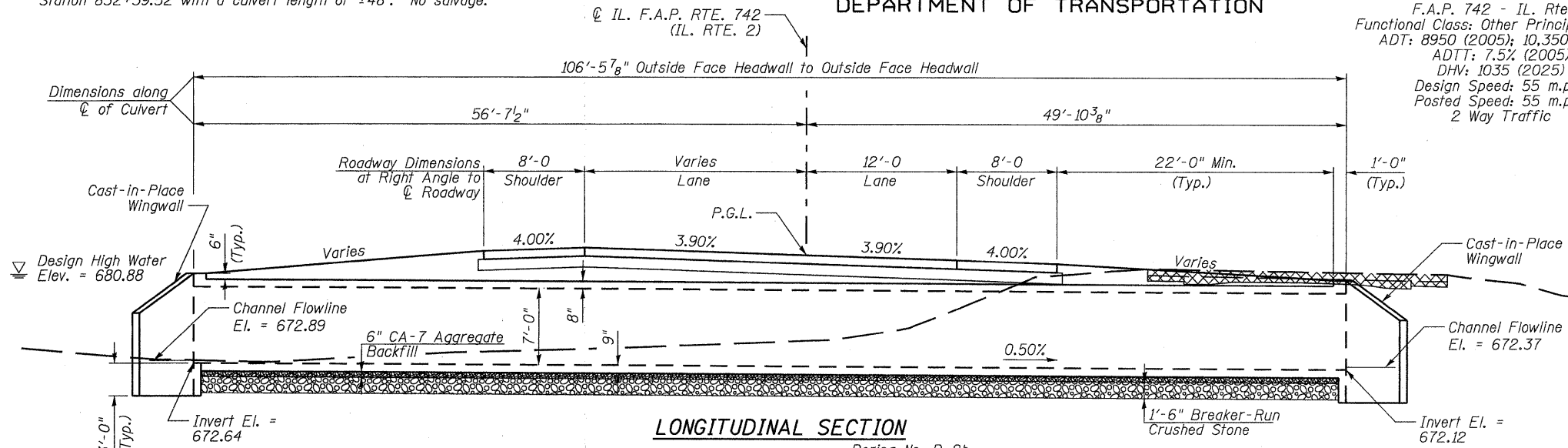
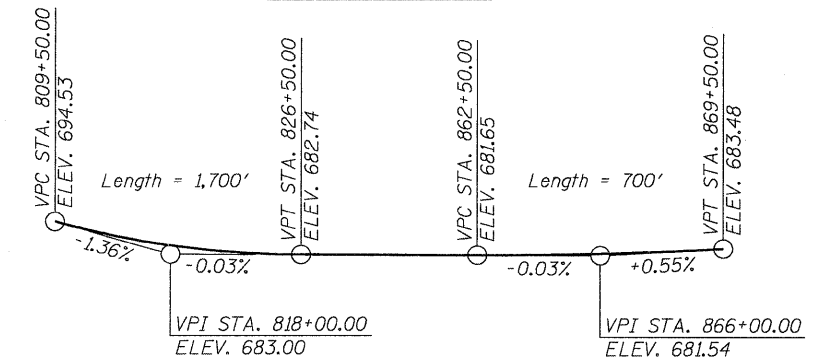
LOADING HS 20-44

Allow 50#/Sq. Ft. for future wearing surface

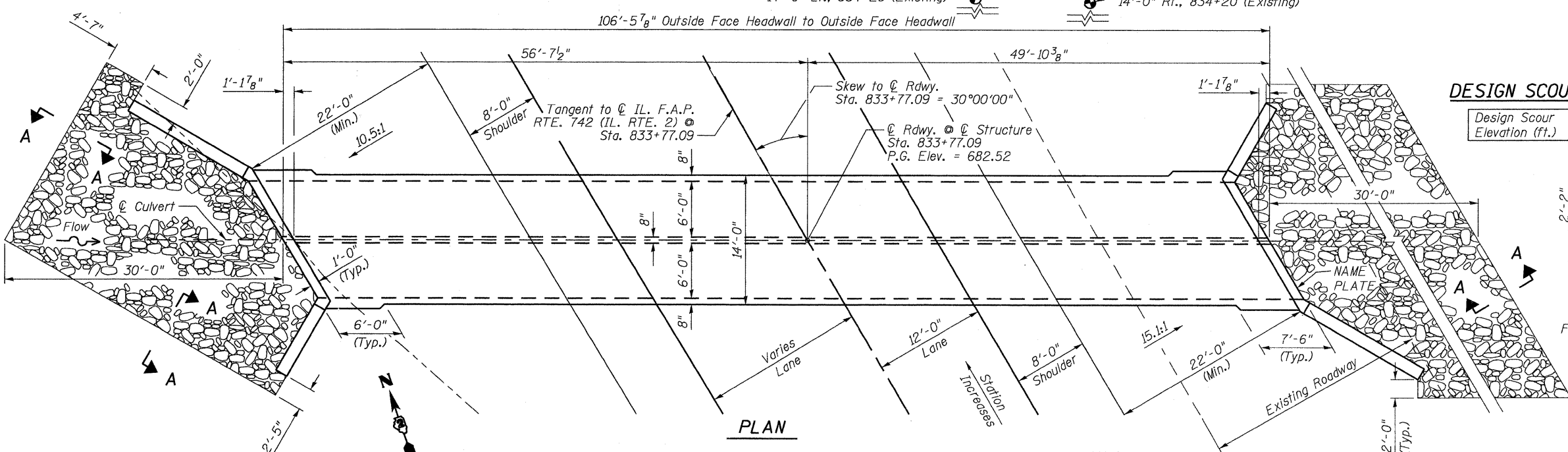
NOTES

See sheet 2 for General Notes.

PROFILE GRADE



LONGITUDINAL SECTION



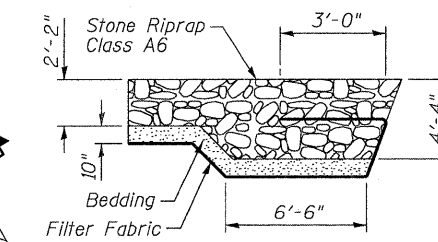
PLAN

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	669.64	669.12

HORIZONTAL CURVE DATA

IL. Rte. 2  
 P.I. Sta. = 833+30.82  
 $\Delta = 22^\circ 09' 13.7''$  (RT)  
 $D = 1^\circ 54' 35''$   
 $R = 3,000.00'$   
 $T = 587.32'$   
 $L = 1,159.97'$   
 $E = 56.95'$   
 $S.E. = 0.039''/'$   
 P.C. Sta. = 827+43.50  
 P.T. Sta. = 839+03.47



SECTION A-A

WATERWAY INFORMATION TABLE

Drainage Area = 0.75 sq. mi.	Existing Low Grade Elevation: 681.31 ft. @ Sta. 2060+10
	Proposed Low Grade Elevation: 683.21 ft. @ Sta. 833+77

Flood	Frequency Year	Discharge (cfs)	Headwater Elev. (ft) Existing	Proposed
Ten-Year	10	446	681.22	679.73
Design	50	715	682.04	680.88
Base	100	831	685.91	681.54
EX OVT	66	730	681.31	
PR OVT	406	1108		683.21

10-Year Velocity through Existing Structure = 9.5 fps  
 10-Year Velocity through Proposed Structure = 5.4 fps

GENERAL PLAN & ELEVATION

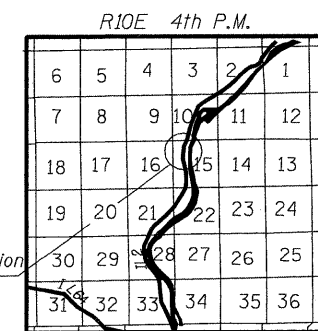
IL. RTE. 2 OVER TRIBUTARY TO ROCK RIVER

F.A.P. RTE. 742 SEC. 37 R-4

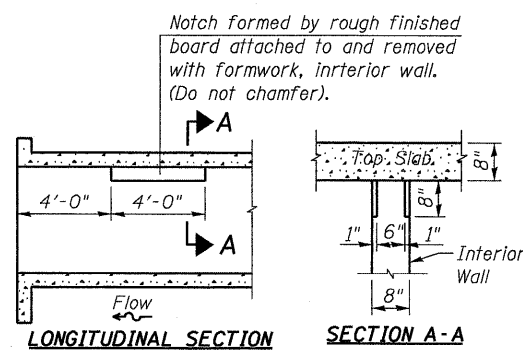
OGLE COUNTY

STA. 833+77

STRUCTURE NO. 071-1135



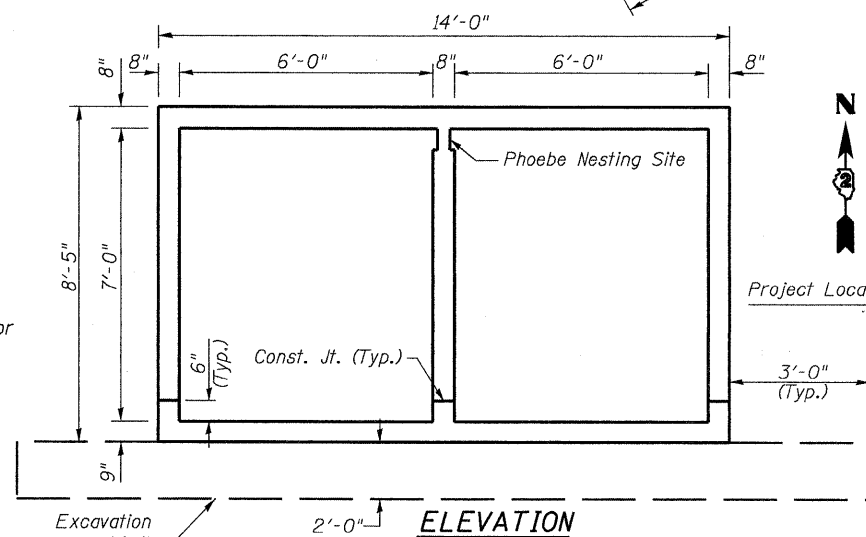
LOCATION SKETCH



LONGITUDINAL SECTION SECTION A-A

PHOEBE NESTING SITE DETAILS

(Downstream End Only)



ELEVATION



David F. Maxwell, S.E.  
 Reg. No. 081-005455  
 Date: 3/3/10  
 My registration expires November 30, 2010.

APPROVED  
 FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (P.E.)  
 ENGINEER OF BRIDGES AND STRUCTURES

DESIGNED KJB
CHECKED CTH
DRAWN CTH
CHECKED DFM

STATION 833+77.09  
 BUILT 20\_\_ BY  
 STATE OF ILLINOIS  
 F.A.P. RTE. 742 SEC. 37R-4  
 LOADING HS20-44  
 STRUCTURE NO. 071-1135

NAME PLATE  
 See Std. 515001

Howard R. Green Company

SHEET NO. 1	F.A. RTE. 742	SECTION 37 R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 191
5 SHEETS					CONTRACT NO. 64E17
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**TOTAL BILL OF MATERIALS**

DESCRIPTION	UNIT	QTY.
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	120
Stone Riprap, Class A6	Sq. Yd.	164
Filter Fabric	Sq. Yd.	227
Removal of Existing Structure No. 9	Each	1
Reinforcement Bars	Pound	24,050
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	160.0
Breaker-Run Crushed Stone	Ton	300

**GENERAL NOTES**

Construction to be completed under detour.

Precast alternate not allowed.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the engineer.

A distance of one half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

DESIGNED <i>KJB</i>
CHECKED <i>CTH</i>
DRAWN <i>KJB</i>
CHECKED <i>DFM</i>

**GENERAL NOTES & TOTAL BILL OF MATERIALS**  
**STRUCTURE NO. 071-1135**

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37 R-4	OGLE	867	192
5 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

(Back)  
5-#5 h<sub>3</sub> bars at 9" cts. Short Wing  
5-#9 h<sub>7</sub> bars at 9" cts. Long Wing

(Front)  
10-#5 h<sub>3</sub> bars at 9" cts. Short Wing  
10-#9 h<sub>7</sub> bars at 9" cts. Long Wing

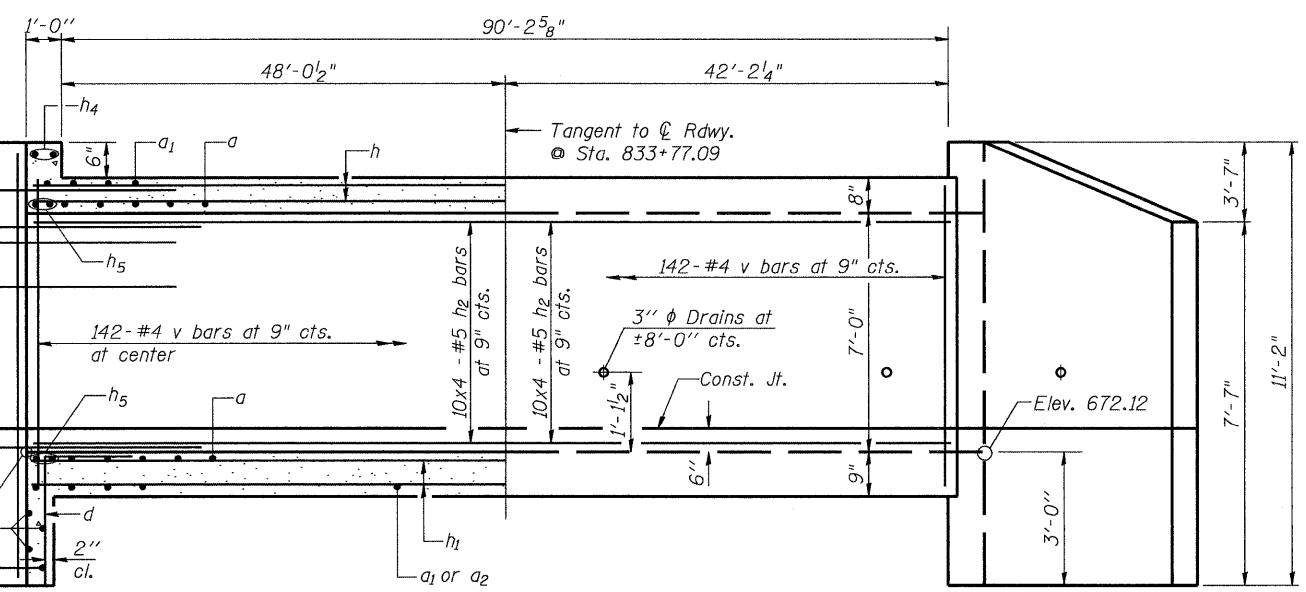
Bend in Field, typ.

Long Wing  
Short Wing

10-#9 h<sub>6</sub> bars at 9" cts.  
10-#5 h<sub>8</sub> bars at 9" cts.

(Back)  
(Back)

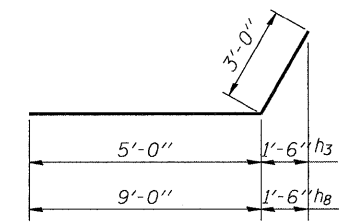
4-#4 v<sub>1</sub> bars  
Ea. Wing  
See Plan View



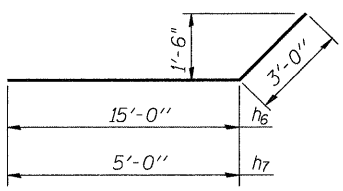
**HALF LONG SECTION**  
Showing bars in Center Wall

**HALF ELEVATION**  
Showing bars in Outside Wall

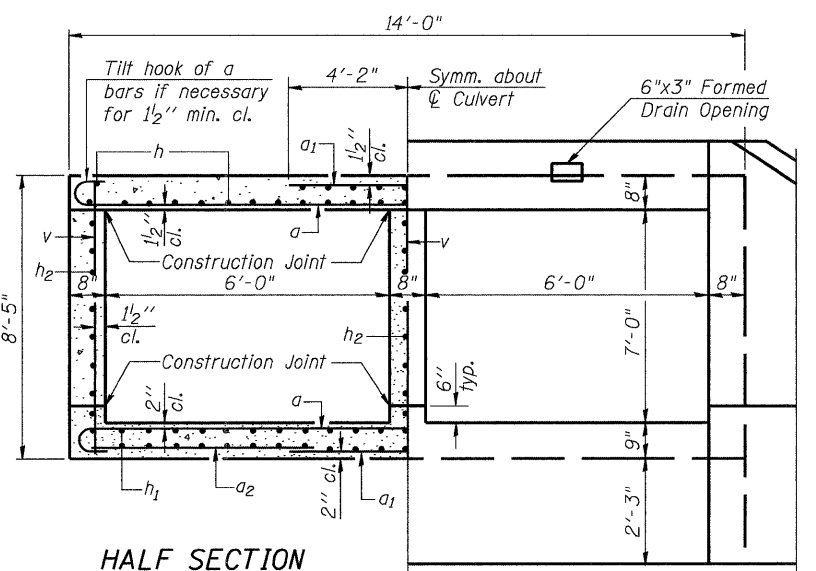
Dimensions are at right angles to  $\phi$  Roadway



**BARS h<sub>3</sub> & h<sub>8</sub>**



**BARS h<sub>6</sub> & h<sub>7</sub>**



**HALF SECTION THRU BARREL**

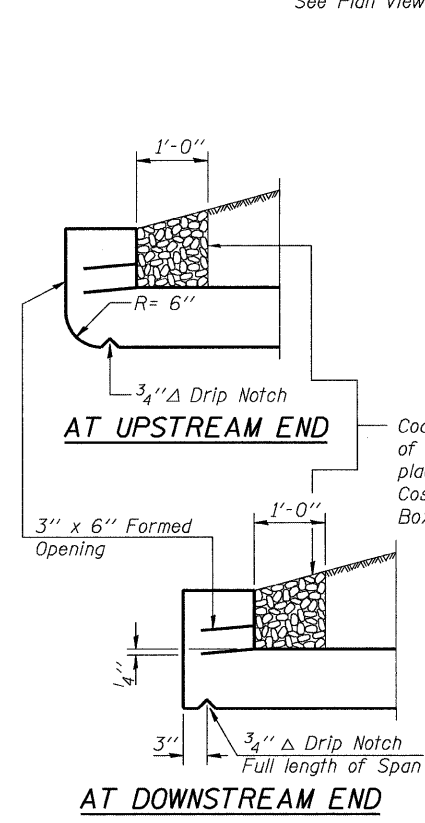
**HALF END ELEVATION**

**NOTES**

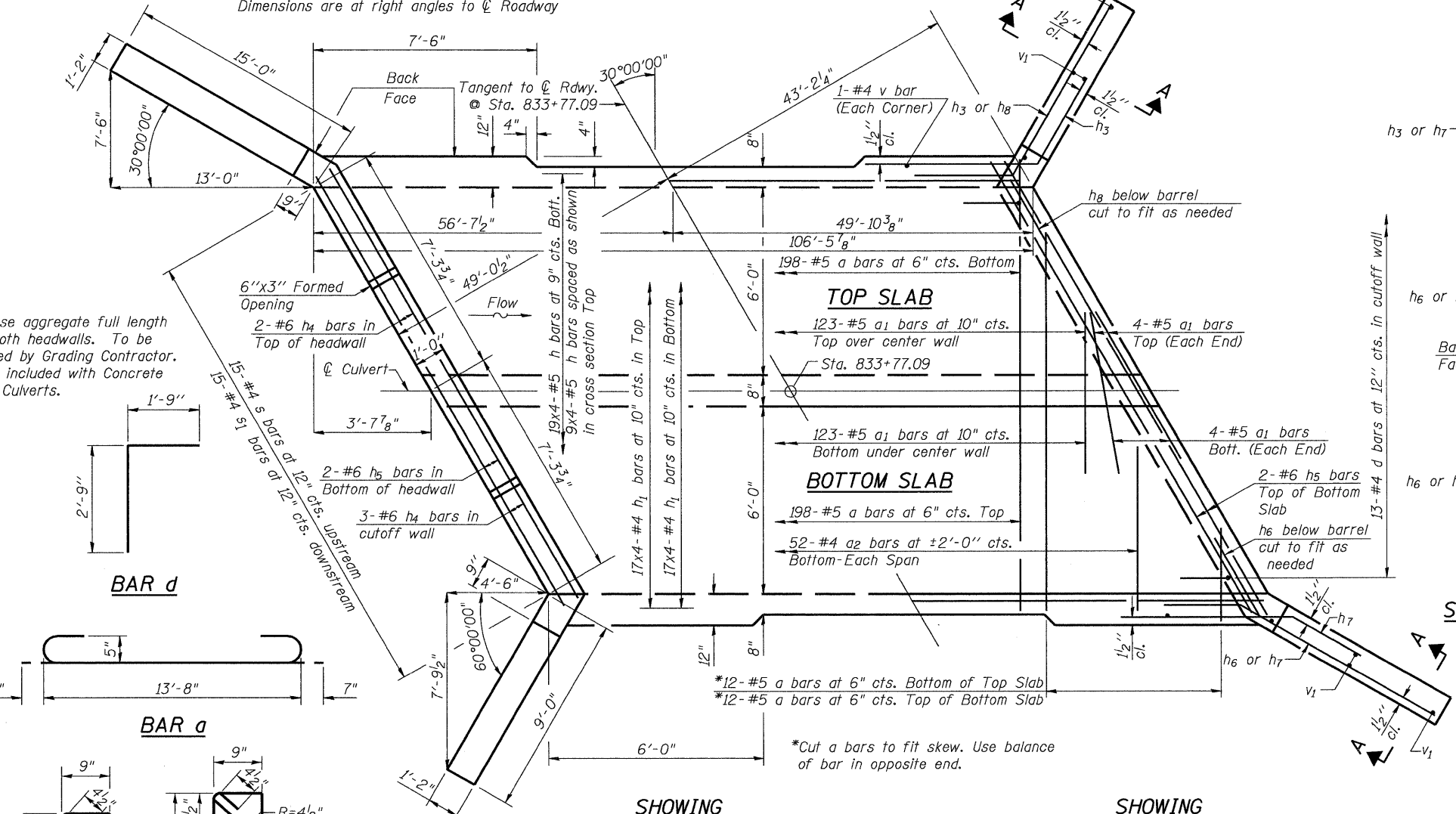
The bars in the culvert barrel may be spliced as follows:

Bar Size Number	4	5	6	9
Minimum Splice Length	16"	20"	24"	55"

Bars indicated thus 4x2-#4 indicates 4 lines of bars with 2 lengths per line.



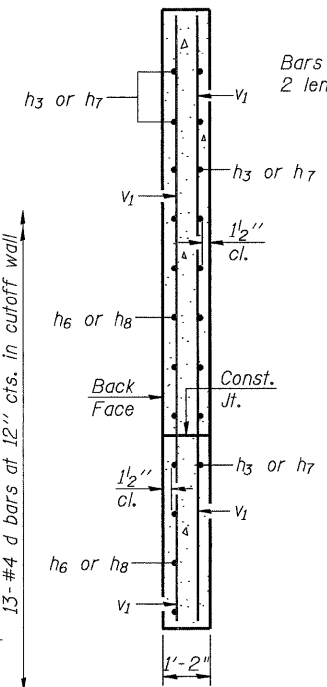
**DRAIN DETAIL**



**SHOWING OUTLINES**

**SHOWING REINFORCEMENT**

**PLAN**



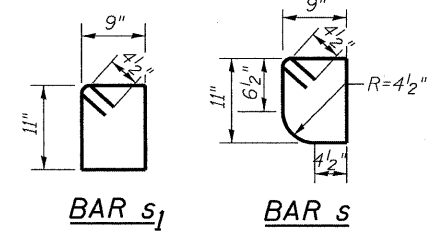
**SECTION A-A**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	420	#5	14'-10"	
a <sub>1</sub>	262	#5	8'-4"	
a <sub>2</sub>	104	#4	6'-0"	
d	26	#4	4'-6"	
h	112	#5	28'-0"	
h <sub>1</sub>	136	#4	27'-8"	
h <sub>2</sub>	120	#5	28'-0"	
h <sub>3</sub>	30	#5	8'-0"	
h <sub>4</sub>	10	#6	15'-8"	
h <sub>5</sub>	8	#6	16'-4"	
h <sub>6</sub>	20	#9	18'-0"	
h <sub>7</sub>	30	#9	8'-0"	
h <sub>8</sub>	20	#5	12'-0"	
s	15	#4	3'-11"	
s <sub>1</sub>	15	#4	4'-1"	
v	430	#4	8'-1"	
v <sub>1</sub>	16	#4	10'-10"	
Concrete Box Culverts			Cu. Yd.	160.0
Reinforcement Bars			Pound	24,050

**CULVERT DETAILS  
STRUCTURE NO. 071-1135**

DESIGNED	KJB
CHECKED	CTH
DRAWN	KJB
CHECKED	DFM



**BAR s<sub>1</sub>**

**BAR s**

SHEET NO. 3 5 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37 R-4	OGLE	867	193
CONTRACT NO. 64E17					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					





STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

Precast Concrete Box Culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M 259.

The minimum concrete strength shall be 5,000 psi.

Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

FILL = 2.3 ft. : TABLE \_\_\_\_\_

**REQUIRED AASHTO STEEL AREAS (in<sup>2</sup>/ft.)**

A<sub>S1</sub> 0.30  
A<sub>S2</sub> 0.35  
A<sub>S3</sub> 0.35  
A<sub>S4</sub> \_\_\_\_\_

**REINFORCEMENT PROVIDED**

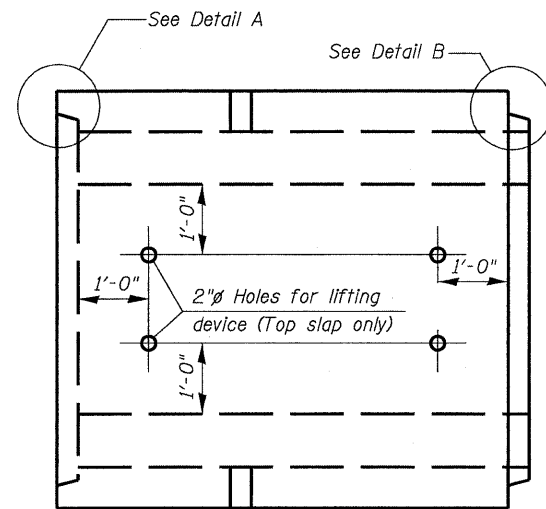
(To be filled out during construction)

**AREA**  
(in<sup>2</sup>/ft.)

A<sub>S1</sub> \_\_\_ x \_\_\_ W \_\_\_ x W \_\_\_ = \_\_\_  
A<sub>S2</sub> \_\_\_ x \_\_\_ W \_\_\_ x W \_\_\_ = \_\_\_  
A<sub>S3</sub> \_\_\_ x \_\_\_ W \_\_\_ x W \_\_\_ = \_\_\_  
A<sub>S4</sub> provided by A<sub>S2</sub> and A<sub>S3</sub>

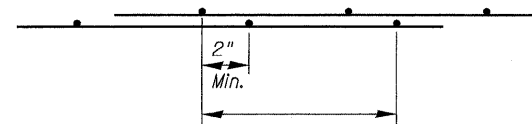
**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Precast Concrete Box Culvert 7' X 3' (Special)	Ft.	80

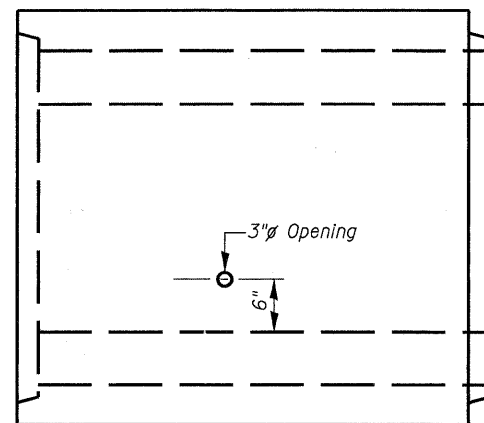


**PLAN**

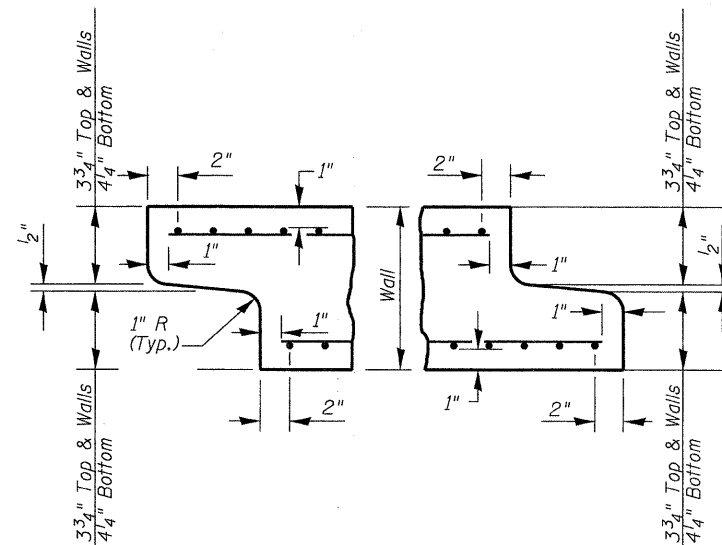
Location of lifting holes may be varied as needed to clear reinf.



**TYP. FABRIC LAP**



**ELEVATION**



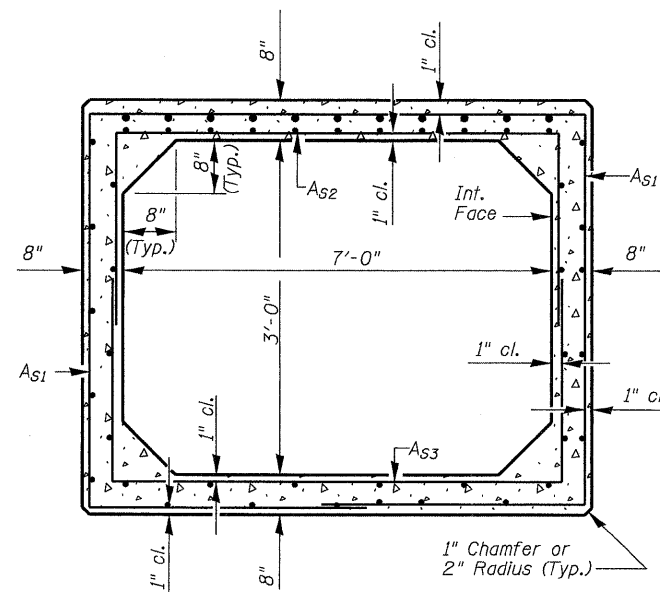
**DETAIL A**

(Typ. Inlet End)

**DETAIL B**

(Typ. Outlet End)

Note: Inlet and outlet ends shall be compatible.



**CROSS SECTION**



David F. Maxwell, S.E.  
Reg. No. 081-005455  
Date: 5/3/10  
My registration expires November 30, 2010.

**BARREL DETAILS**  
IL. RTE. 2 OVER TRIBUTARY TO ROCK RIVER  
F.A.P. RTE. 742 SECTION 37 R-4  
OGLE COUNTY  
STA. 1023+85  
STRUCTURE NO. 071-1138

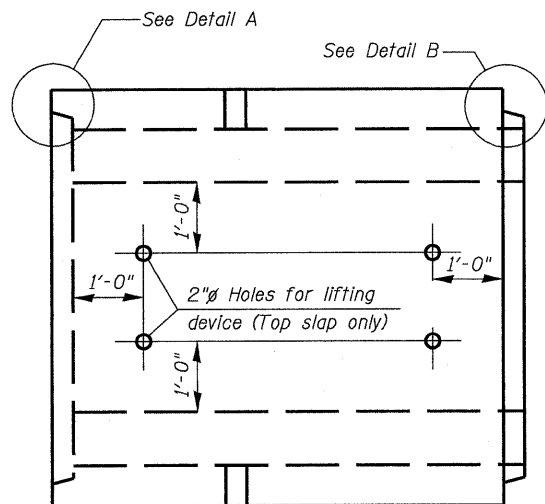
DESIGNED	KJB
CHECKED	CTH
DRAWN	DMJ
CHECKED	CTH

Howard R. Green Company

SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37 R-4	OGLE	867	196
1 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

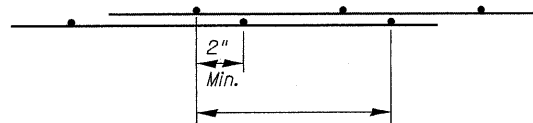


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

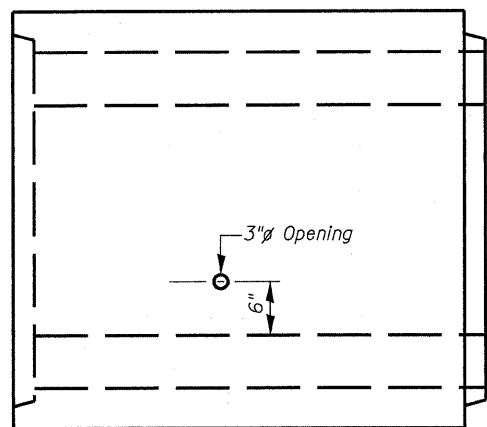


**PLAN**

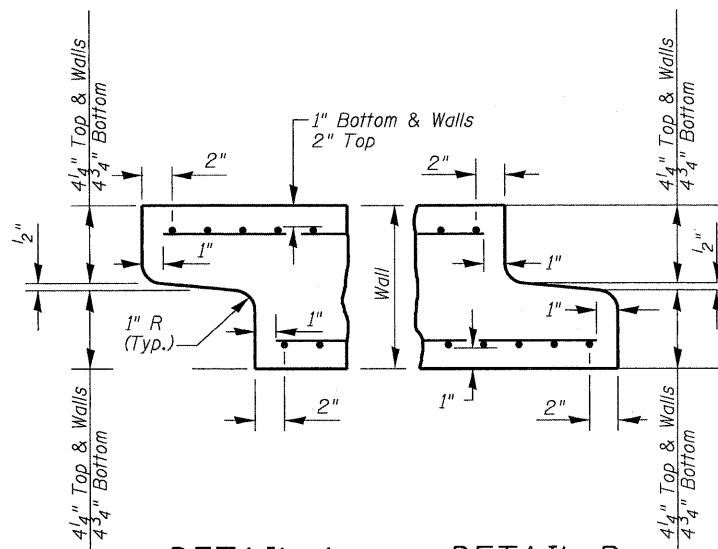
Location of lifting holes may be varied as needed to clear reinf.



**TYP. FABRIC LAP**



**ELEVATION**



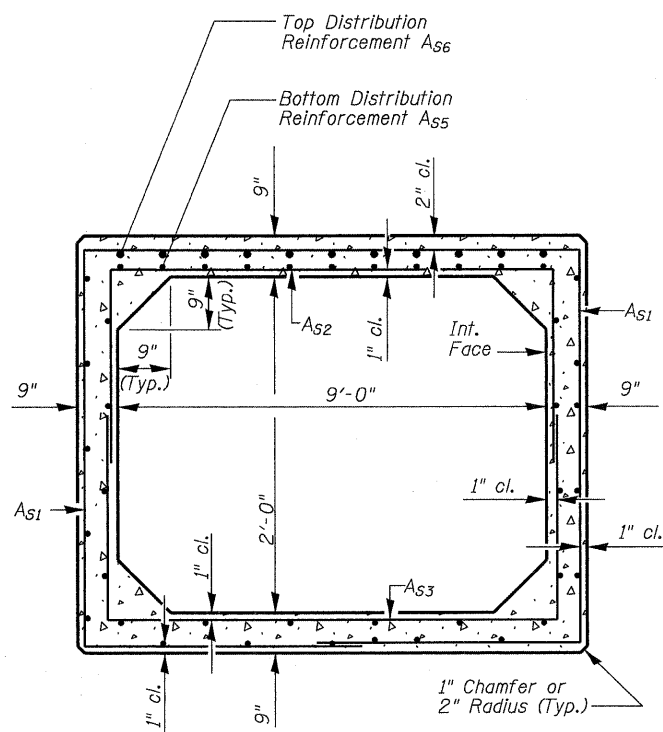
**DETAIL A**

(Typ. Inlet End)

**DETAIL B**

(Typ. Outlet End)

Note: Inlet and outlet ends shall be compatible.



**CROSS SECTION**

**GENERAL NOTES**

Precast Concrete Box Culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M 273.

The minimum concrete strength shall be 5,000 psi.

Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

FILL < 2.0 ft. : TABLE \_\_\_\_\_

**REQUIRED AASHTO STEEL AREAS (in<sup>2</sup>/ft.)**

A <sub>S1</sub>	0.42	A <sub>S5</sub>	0.43
A <sub>S2</sub>	0.50	A <sub>S6</sub>	0.22
A <sub>S3</sub>	0.50	A <sub>S7</sub>	
A <sub>S4</sub>		A <sub>S8</sub>	

**REINFORCEMENT PROVIDED**

(To be filled out during construction)

**AREA**  
(in<sup>2</sup>/ft.)

A <sub>S1</sub>	___ x ___ W ___ x W ___ = ___
A <sub>S2</sub>	___ x ___ W ___ x W ___ = ___
A <sub>S3</sub>	___ x ___ W ___ x W ___ = ___
A <sub>S4</sub>	provided by A <sub>S2</sub> and A <sub>S3</sub>
A <sub>S5</sub>	_____ = _____
A <sub>S6</sub>	_____ = _____
A <sub>S7</sub>	provided by A <sub>S1</sub>
A <sub>S8</sub>	provided by A <sub>S1</sub>

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Precast Concrete Box Culvert 9' X 2' (Special)	Ft.	68



David F. Maxwell, S.E.  
Reg. No. 081-005455  
Date: 5/3/10  
My registration expires November 30, 2010.

**BARREL DETAILS**  
IL. RTE. 2 OVER TRIBUTARY TO ROCK RIVER  
F.A.P. RTE. 742 SECTION 37 R-4  
OGLE COUNTY  
STA. 1042+23  
STRUCTURE NO. 071-1129

DESIGNED	KJB
CHECKED	CTH
DRAWN	DMJ
CHECKED	CTH

Howard R. Green Company

SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	742	37 R-4	OGLE	867	197
1 SHEETS	CONTRACT NO. 64E17				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Precast Concrete Box Culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M 273.

The minimum concrete strength shall be 5,000 psi.

Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

FILL < 2.0 ft. : TABLE \_\_\_\_\_

REQUIRED AASHTO STEEL AREAS (in<sup>2</sup>/ft.)

As1	0.27	As5	0.36
As2	0.41	As6	0.20
As3	0.41	As7	
As4		As8	

REINFORCEMENT PROVIDED

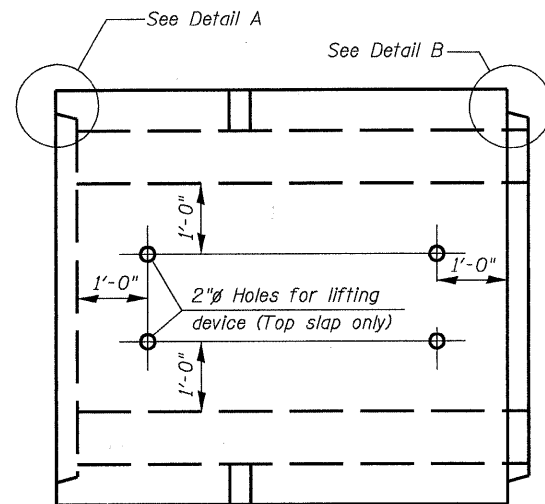
(To be filled out during construction)

AREA  
(in<sup>2</sup>/ft.)

As1	___ x ___ W ___ x W ___ = ___
As2	___ x ___ W ___ x W ___ = ___
As3	___ x ___ W ___ x W ___ = ___
As4	provided by As2 and As3
As5	_____ = _____
As6	_____ = _____
As7	provided by As1
As8	provided by As1

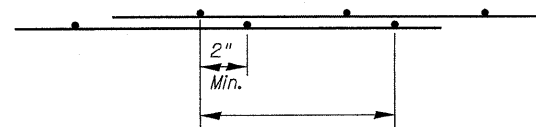
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Precast Concrete Box Culvert 5' X 2' (Special)	Ft.	59

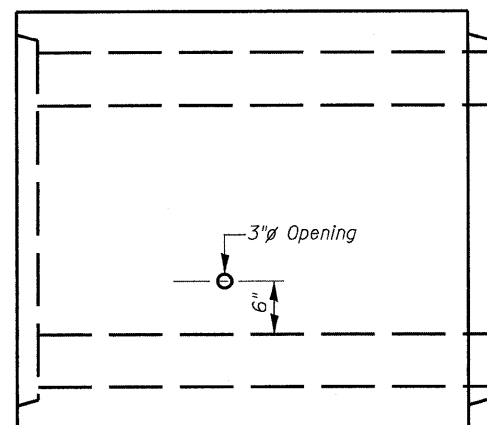


PLAN

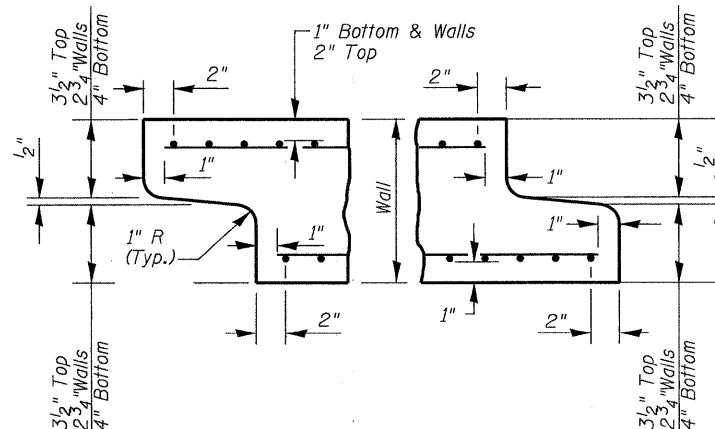
Location of lifting holes may be varied as needed to clear reinf.



TYP. FABRIC LAP



ELEVATION



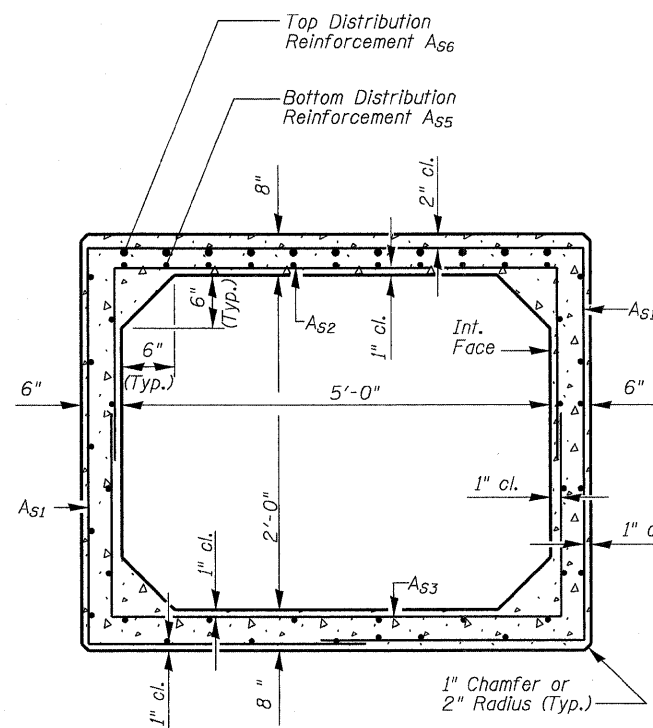
DETAIL A

(Typ. Inlet End)

DETAIL B

(Typ. Outlet End)

Note: Inlet and outlet ends shall be compatible.



CROSS SECTION



*David F. Maxwell*  
David F. Maxwell, S.E. Reg. No. 081-005455  
Date: 3/3/10  
My registration expires November 30, 2010.

BARREL DETAILS  
IL. RTE. 2 OVER TRIBUTARY TO ROCK RIVER  
F.A.P. RTE. 742 SECTION 37 R-4  
OGLE COUNTY  
STA. 1050+36  
STRUCTURE NO. 071-1130

DESIGNED	KJB
CHECKED	CTH
DRAWN	DMJ
CHECKED	CTH

Howard R. Green Company

SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1 SHEETS	742	37 R-4	OGLE	867	198
CONTRACT NO. 64E17					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

# RETAINING WALL SUMMARY

PAYCODE #	ITEMS:	UNITS	STRUCTURE NUMBERS				TOTAL QTY.
			071-7003 WALL D	071-7004 WALL E	071-7005 WALL F	071-7006 WALL G	
50200100	Structure Excavation	CU YD	1128	3478	1997.5	291.3	6895
51500100	Name Plates	EACH	1	1	1	1	4
60109580	Pipe Underdrains for Structures, 4"	FOOT	659	1359	1089.8	349	3457
60602600	Concrete Gutter, Type A Modified	FOOT	658.7	1359	1089.8	349	3457
51202210	Furnishing Soldier Piles (HP Section)	FOOT			3269	649	3918
51202230	Furnishing Soldier Piles (W Section)	FOOT	1655	6501	1601		9757
51205200	Temporary Sheet Piling	SQ FT			38036		38036
59100100	Geocomposite Wall Drain	SQ YD	900	2358	1133	299	4690
Z0073002	Temporary Soil Retention System	SQ FT		4645			4645
X0324455	Drilling & Setting Soldier Piles (In Soil)	CU FT	1503	6156	7092	491	15242
X0324456	Drilling & Setting Soldier Piles (In Rock)	CU FT	3834	12436		1099	17369
X0325751	Driving Soldier Piles	FOOT			3269		3269
XZ127902	Retaining Wall (Special)	SQ FT	8881	22994	11721	3170	46766
	Staining Concrete Structures	SQ YD	800	2196	983	292	4271

FILE NAME =	USER NAME = cushmanbx	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RETAINING WALL SUMMARY</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
or\pwork\pwork\cushmanbx\dms31213\08080808.dgn	DRAWN -	REVISED -	742			37R-4	OGLE	867	199	
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 64E17							
PLOT DATE = Wed Mar 31 09:26:27 2010	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.			

Benchmark: Telephone Pole, Existing Sta. 712+80.09, 21.37' LT.  
Proposed Sta. 712+78.03, 24.74' LT. Elev. 682.39

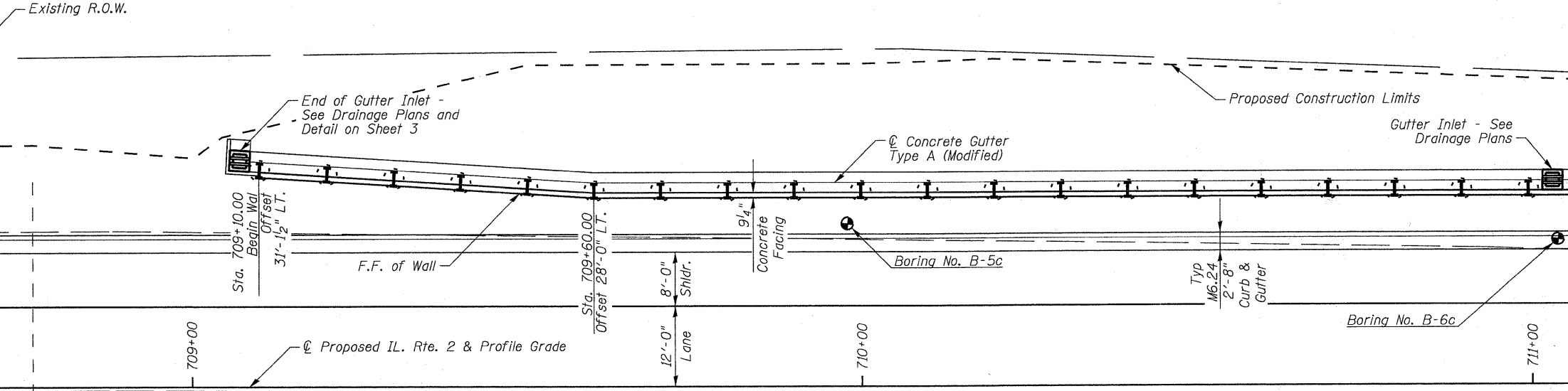
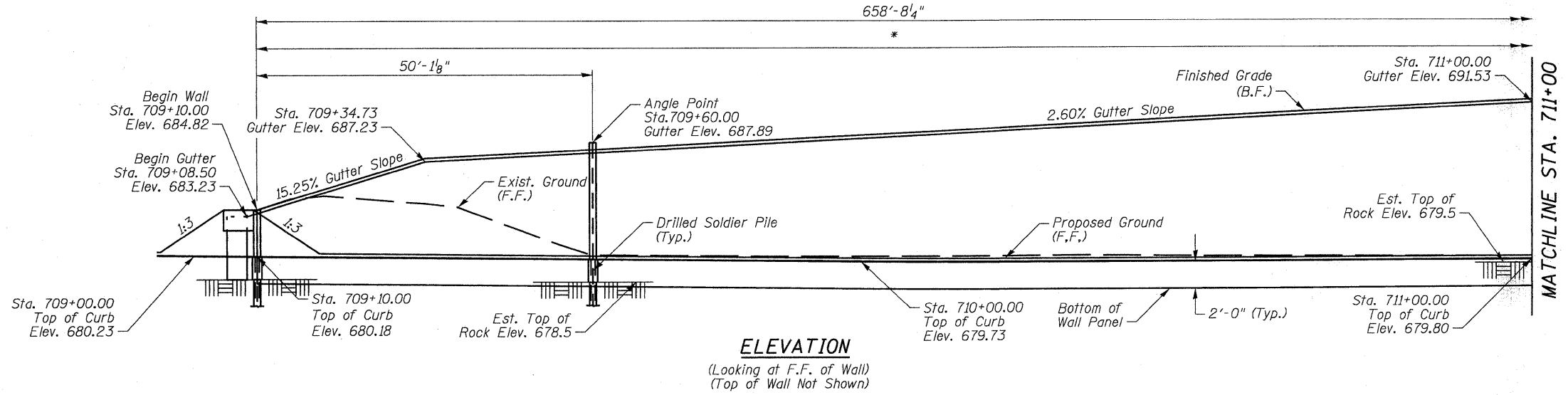
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Existing Structure: None

\* For top of wall elevation, pile section, spacing and tip elevation see sheets 6-8 of 13. Bottom of wall panels shall be a minimum of 2'-0" below top of curb.

**SHEET INDEX**

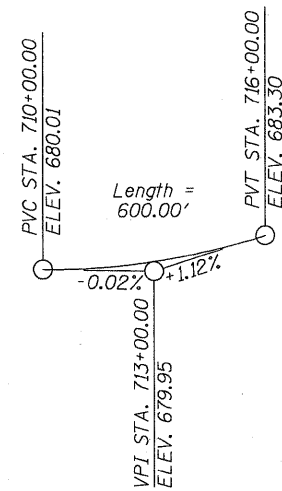
NO.	DESCRIPTION
1-3	GENERAL PLAN
4	GENERAL NOTES & TOTAL BILL OF MATERIALS
5	WALL SECTION
6-8	WALL PLAN
9	PANEL DETAILS
10	WALL DETAILS
11-13	BORING LOGS



**PLAN**

**CURVE DATA**

(IL. Rte. 2)  
P.I. STA = 719+72.11  
Δ = 43° 40' 36" (RT.)  
D = 4° 00' 00"  
R = 1,432.40'  
T = 574.03'  
L = 1,091.92'  
E = 110.74'  
P.C. STA = 713+98.08  
P.T. STA = 724+90.00



**PROFILE GRADE**  
(Along Proposed IL. Rte. 2)

**NOTES**

Stations and Offsets are given from the Centerline of Proposed IL. Rte. 2 at the front face of wall unless otherwise noted.

See Sheet 4 of 13 for Bill of Materials.

F.F. = Front Face  
B.F. = Back Face

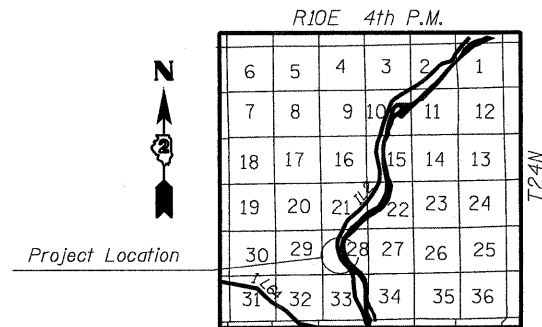
Howard R. Green Company



David F. Maxwell, S.E. Reg. No. 081-005455  
Date: 3/17/10  
My registration expires November 30, 2010.

**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (TJD)  
ENGINEER OF BRIDGES AND STRUCTURES



**LOCATION SKETCH**

**GENERAL PLAN & ELEVATION**  
**IL. RTE. 2**  
**FAP 742 SECTION 37R-4**  
**OGLE COUNTY**  
**RETAINING WALL D**  
**STA. 709+10.00 TO STA. 715+65.00**  
**STRUCTURE NO. 071-7003**

DESIGNED	JMW
CHECKED	DFM
DRAWN	CTH
CHECKED	DFM

SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13 SHEETS	742	37R-4	OGLE	867	200
<b>CONTRACT NO. 64E17</b>					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					