

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAP ROUTE 714 (IL 48)
SECTION D6 SHLDR RUMBLE STRIPS 2010
PROJECT: ACHSIP-0714(017)
CHRISTIAN COUNTY
C-96-072-09

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
714	*	CHRISTIAN	18	1
		ILLINOIS	CONTRACT NO. 72C78	

* D6 SHLDR RUMBLE STRIPS 2010

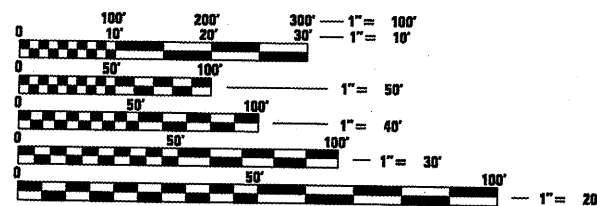
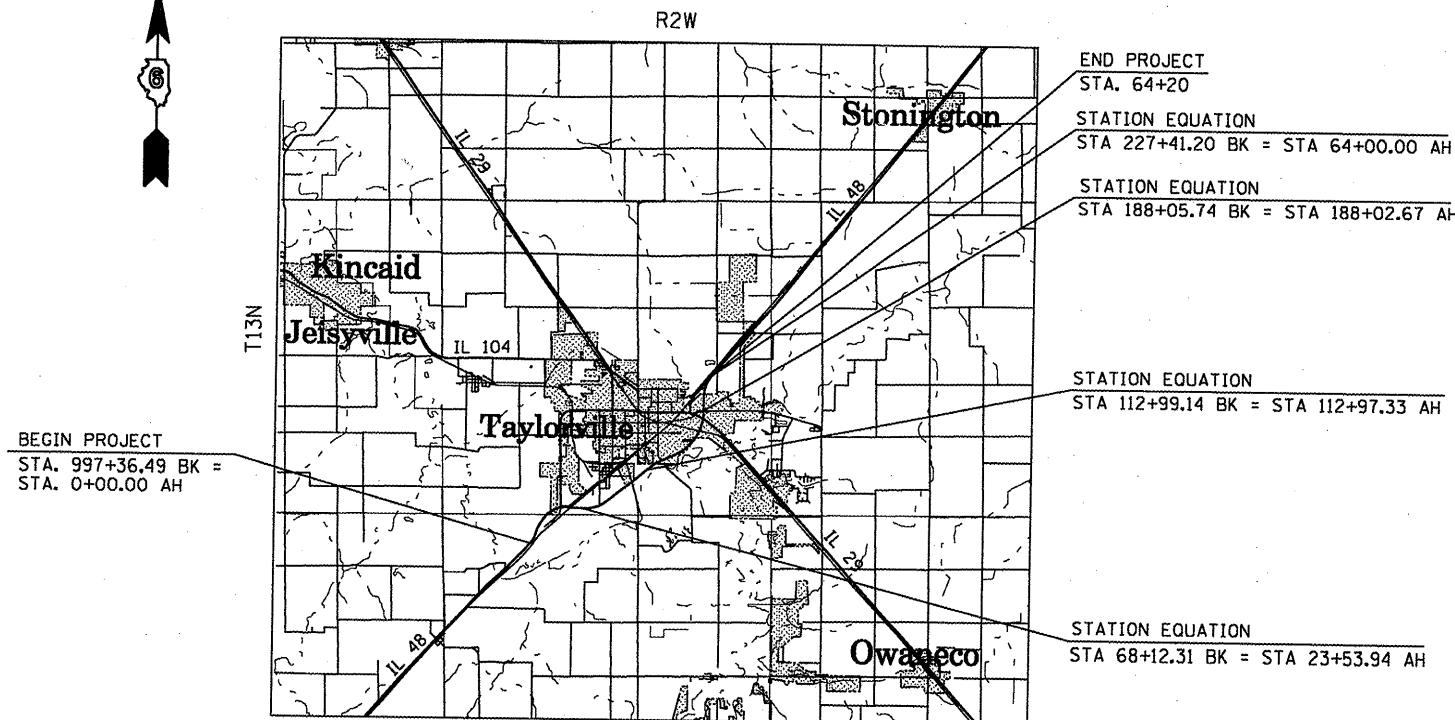
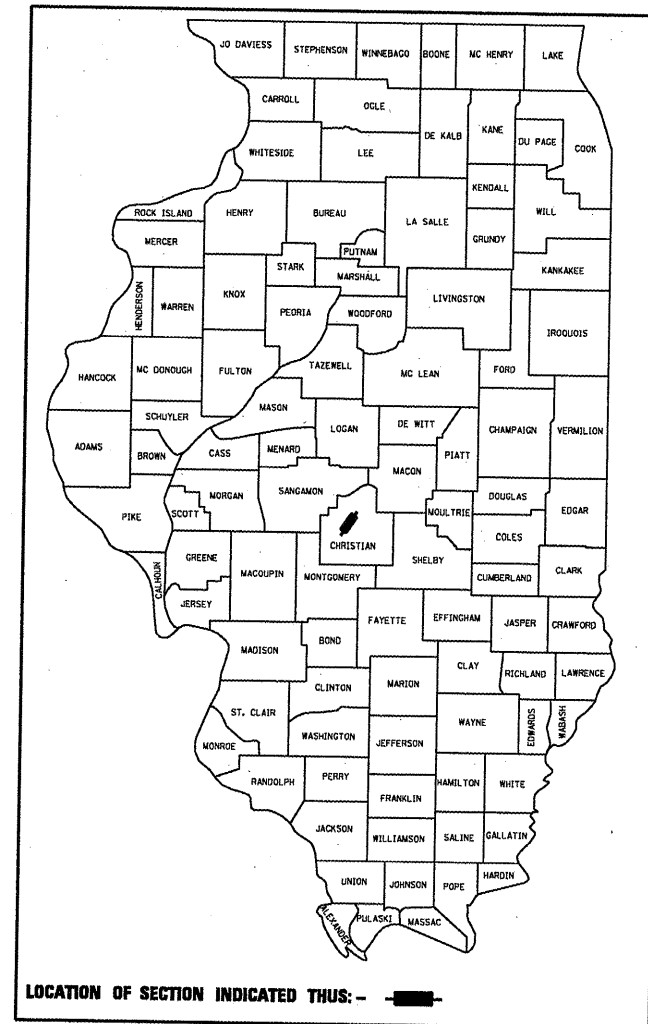
D-96-072-09

INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
- 4.-6. TYPICAL SECTIONS
7. SCHEDULE OF QUANTITIES
- 8.-17. PLAN SHEETS
18. RUMBLE STRIP DETAILS

HIGHWAY STANDARDS

- 000001-05
- 701011-02
- 701301-03
- 701306-02
- 701311-03
- 701326-03
- 701901-01



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811



GROSS LENGTH = 27,224.45 FT. = 5.158 MILE
NET LENGTH = 27,224.45 FT. = 5.158 MILE

PROJECT ENGINEER SAL MADONIA PH. 217-782-4761
SQUAD LEADER TOM COX PH. 217-524-7940

CONTRACT NO. 72C78

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED October 1, 2009

Roger Z. Onick
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 4, 2009
Charles J. Inoué
 ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2009
Christine M. Reed
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE FOR THE DURATION OF THIS PROJECT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED. ANY DAMAGE TO THE UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE, INCLUDING TEMPORARY REPAIRS WHICH MAY BE REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS.
3. THE THICKNESS OF HOT-MIX ASPHALT SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT IS PLACED.
4. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
5. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
5. UNLESS NOTED OTHERWISE, STATIONS AND OFFSETS REFER TO CENTERLINE OF PROJECT.
6. IN ADDITION TO FIELD SURVEYS AND AERIAL SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

COMMITMENTS:

THERE ARE NO COMMITMENTS MADE FOR THIS PROJECT.

MIXTURE REQUIREMENTS	
LOCATION(S):	PROPOSED LT. & RT. SHLDRS.
MIXTURE USE(S):	HMA SHOULDERS
P.G.:	PG 58-22
DESIGN AIR VOIDS:	2.0% @ N DESIGN = 30
MIXTURE COMPOSITION: (GRADATION MIXTURE)	BAM
FRICTION AGGREGATE:	N / A

DISTRICT SIX	
EXAMINED	March 31 20 09 <i>Sam J. Harris</i>
OPERATIONS ENGINEER	
EXAMINED	March 31 20 09 <i>Sam J. Harris</i>
PROGRAM IMPLEMENTATION ENGINEER	
EXAMINED	October 20 09 <i>Sam J. Harris</i>
PROGRAM DEVELOPMENT ENGINEER	

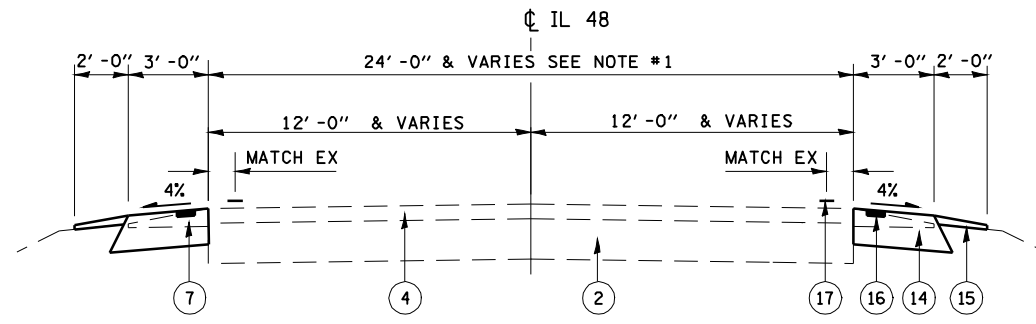
FILE NAME =	USER NAME = mgers.jp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	FAP RTE. 714	SECTION *	COUNTY CHRISTIAN	TOTAL SHEETS 18	SHEET NO. 2
ct:\pw\work\PWIDOT\MYERSJP\012009\067278-shl-gernote.dgn	PLOT SCALE = 100.0000' / IN.	DRAWN	REVISED - ----		SCALE: NONE	SHEET NO. OF SHEETS		STA.	TO STA.	* D-6 SHLDR RUMBLE STRIPS 2010
PLOT DATE = Oct-01-2009 10:09:33AM	CHECKED - ----	DATE	REVISED - ----				FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT		CONTRACT NO. 72C78	

SUMMARY OF QUANTITIES

CODE NO.	PAY ITEM	UNIT	90% FED 10% STATE SFTY - 2A QUANTITY
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	448
48101200	AGGREGATE SHOULDERS, TYPE B	TON	992
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	14,935
64200105	SHOULDER RUMBLE STRIP	FOOT	49,242
67100100	MOBILIZATION	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	8
* 78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	51,506
78300100	PAVEMENT MARKING REMOVAL	SQ FT	21,461

** Specialty Items*

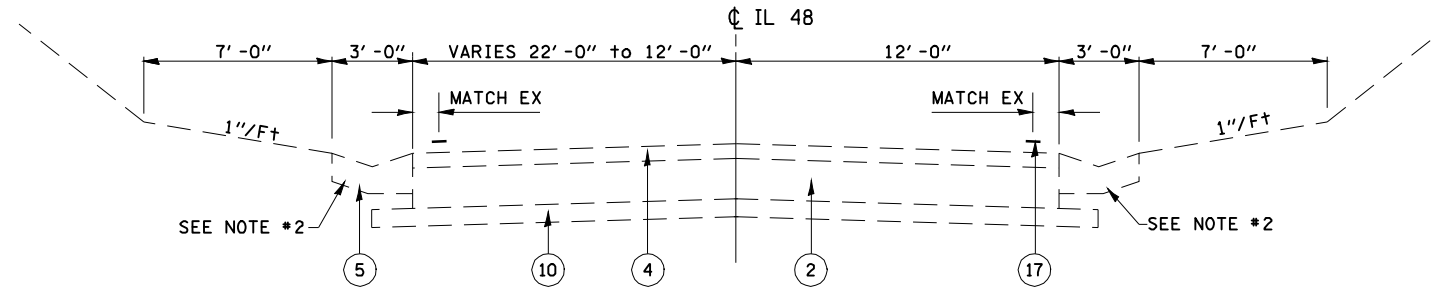
* D-6 SHLDR RUMBLE STRIPS 2010



TYPICAL SECTION #1
FA 714

STA. EQ.: STA. 997+36.49 BK. = STA. 0+00.00 AH.
 STA. 0+00 TO STA. 37+67.98
 STA. 52+84.90 TO STA. 68+12.31
 STA. EQ.: STA. 68+12.31 BK. = STA. 23+53.94 AH.
 STA. 23+53.94 TO STA. 73+86.00

STA. 87+51.00 TO STA. 112+99.14
 STA. EQ.: STA. 112+99.14 BK. = STA. 112+97.33 AH.
 STA. 112+97.33 TO STA. 185+62.50
 STA. 196+70.00 TO STA. 208+38.98
 STA. 217+67.24 TO STA. 227+31.10

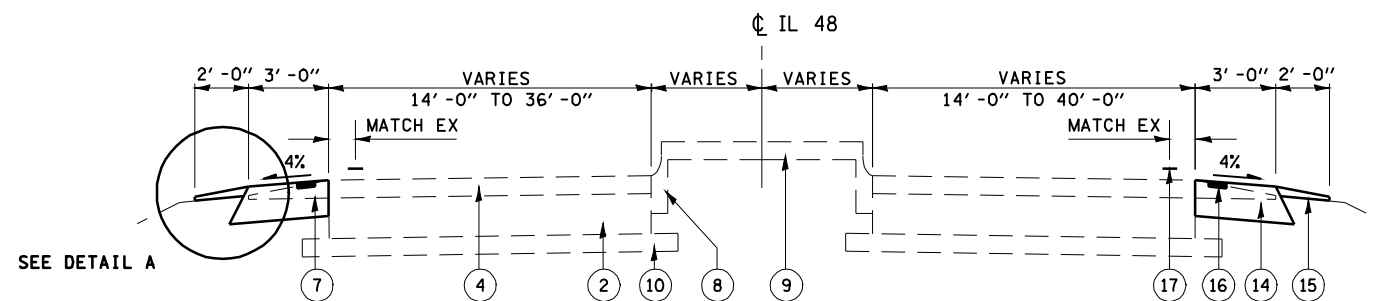


TYPICAL SECTION #2
FA 714

STA. 50+59.00 TO STA. 52+84.90

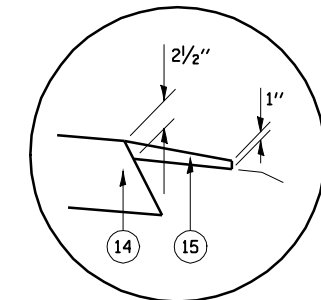
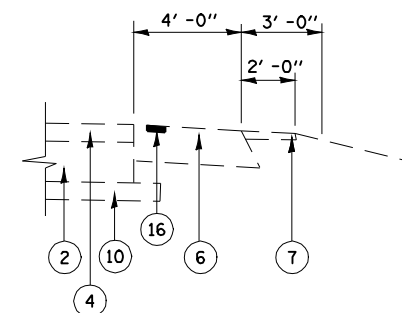
NOTES:

1. STA. 35+50 TO STA. 37+67.80 VARIES FROM 24'-0" TO 30'-6"
 STA. 69+07.58 TO STA. 73+86.00 VARIES FROM 24'-0" TO 31'-6"
 STA. 87+51.00 TO STA. 91+30.00 VARIES FROM 31'-6" TO 24'-0"
2. EXISTING GUTTER TYPE A ENDS:
 RT. STA. 54+52.5
 LT. STA. 56+63.80



TYPICAL SECTION #3
FA 714

* STA. 73+86.00 TO STA. 87+51.00



DETAIL A
ALL LOCATIONS

* LIMITS OF EXISTING HMA SHOULDERS:
 RT. STA. 75+81.00 TO STA. 82+42.55
 LT. STA. 79+14.00 TO STA. 85+82.00

- LEGEND**
- ① EXISTING 9" P. C. C. PAVEMENT
 - ② EXISTING P. C. C. BASE COURSE 9"
 - ③ EXISTING P. C. C. WIDENING
 - ④ EXISTING HOT-MIX ASPHALT OVERLAY
 - ⑤ EXISTING GUTTER, TYPE A
 - ⑥ EXISTING HOT-MIX ASPHALT SHOULDER
 - ⑦ EXISTING AGGREGATE SHOULDER, TYPE B
 - ⑧ EXISTING CURB AND GUTTER
 - ⑨ EXISTING CONCRETE MEDIAN SURFACE, 4"
 - ⑩ EXISTING SUB-BASE GRANULAR MATERIAL

- ⑭ PROPOSED HOT-MIX ASPHALT SHOULDER 8"
- ⑮ PROPOSED AGGREGATE SHOULDERS, TYPE B (WEDGE)
- ⑯ PROPOSED SHOULDER RUMBLE STRIP
- ⑰ PROPOSED THERMO PAVEMENT MARKING, 5"

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
et:\pwork\PWIDOT\LAUGHLINRL\0128096\0672C78-sh-t-typical.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

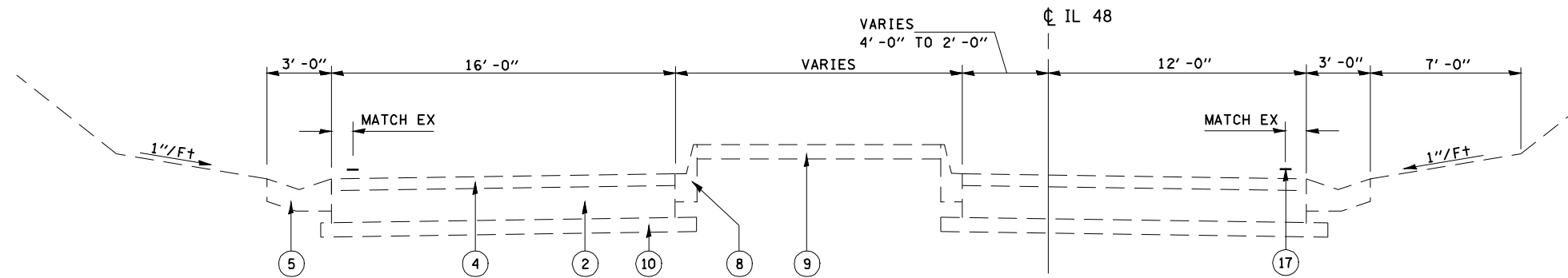
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

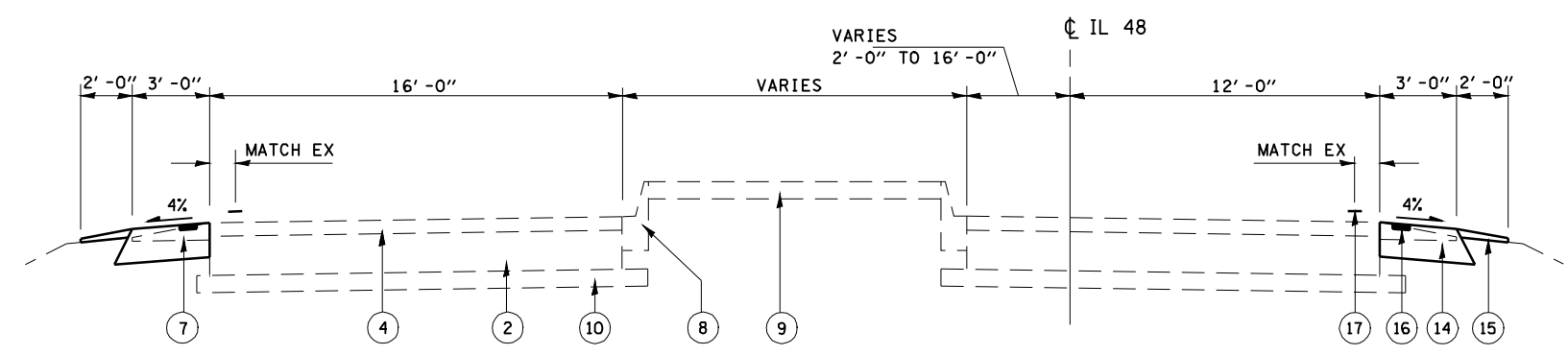
SCALE: NA SHEET NO. OF SHEETS STA. TO STA.

* D6 SHLDR RUMBLE STRIPS 2010

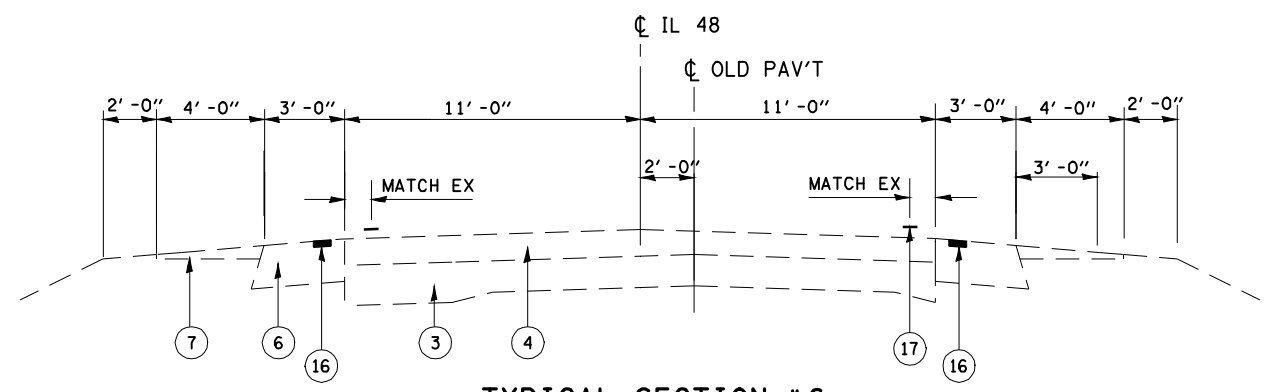
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
714	*	CHRISTIAN	18	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72C78	



TYPICAL SECTION #4
FA 714
 STA. 48+00.00 TO STA. 50+59.00



TYPICAL SECTION #5
FA 714
 STA. 37+67.98 TO STA. 48+00.00



TYPICAL SECTION #6
FA 714
 STA. 227+31.10 TO STA. 227+41.20
 STA. EQ.: STA. 227+41.20 BK = STA. 64+00.00 AH
 STA. 64+00.00 TO STA. 64+20.00

LEGEND

- ① EXISTING 9" P. C. C. PAVEMENT
- ② EXISTING P. C. C. BASE COURSE 9"
- ③ EXISTING P. C. C. WIDENING
- ④ EXISTING HOT-MIX ASPHALT OVERLAY
- ⑤ EXISTING GUTTER, TYPE A
- ⑥ EXISTING HOT-MIX ASPHALT SHOULDER
- ⑦ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑧ EXISTING CURB AND GUTTER
- ⑨ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑩ EXISTING SUB-BASE GRANULAR MATERIAL

- ⑭ PROPOSED HOT-MIX ASPHALT SHOULDER 8"
- ⑮ PROPOSED AGGREGATE SHOULDERS, TYPE B (WEDGE)
- ⑯ PROPOSED SHOULDER RUMBLE STRIP
- ⑰ PROPOSED THERMO PAVEMENT MARKING, 5"

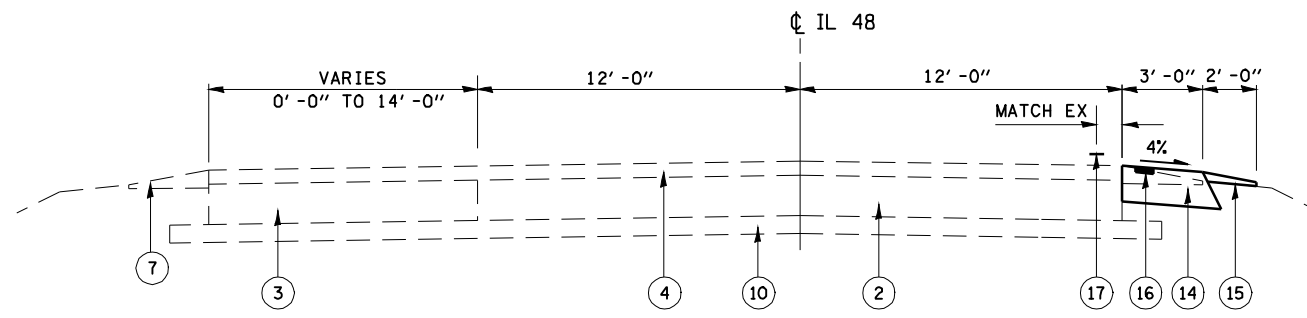
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
et\pwork\PWIDOT\LAUGHLINRL\0128096\0672C78-sh-t-typical.dgn		DRAWN -	REVISED -
	PLOT SCALE = 7.1524' / IN.	CHECKED -	REVISED -
	PLOT DATE = Oct-02-2009 09:06:35AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

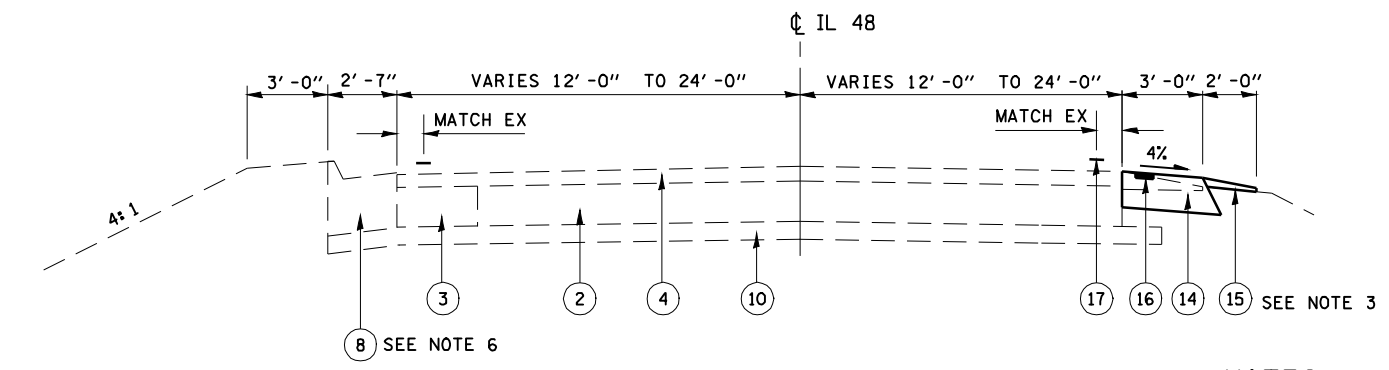
TYPICAL CROSS SECTIONS			
SCALE: NA	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
714	*	CHRISTIAN	18	5
CONTRACT NO. 72C78				
ILLINOIS FED. AID PROJECT				

* D6 SHLDR RUMBLE STRIPS 2010



TYPICAL SECTION #7
FA 714
 STA. 209+38.98 TO STA. 217+67.24



TYPICAL SECTION #8
FA 714

STA. 185+62.50 TO STA. 188+05.74
 STA. EQ. : STA. 188+05.74 BK. = STA. 188+02.67 AH.
 STA. 188+02.67 TO STA. 196+70.00

NOTES:
 3. LIMITS OF EXISTING CURB AND GUTTER:
 RT. STA. 185+62.50 TO STA. 189+23.87
 LT. STA. 187+13.00 TO STA. 190+04.00

LEGEND

- ① EXISTING 9" P. C. C. PAVEMENT
- ② EXISTING P. C. C. BASE COURSE 9"
- ③ EXISTING P. C. C. WIDENING
- ④ EXISTING HOT-MIX ASPHALT OVERLAY
- ⑤ EXISTING GUTTER, TYPE A
- ⑥ EXISTING HOT-MIX ASPHALT SHOULDER
- ⑦ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑧ EXISTING CURB AND GUTTER
- ⑨ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑩ EXISTING SUB-BASE GRANULAR MATERIAL

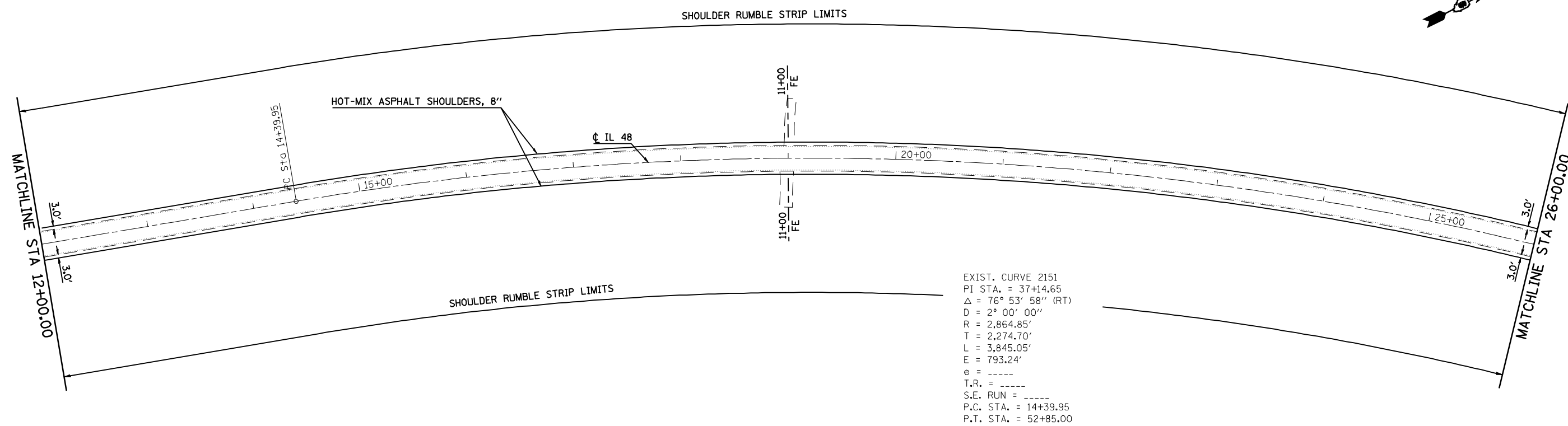
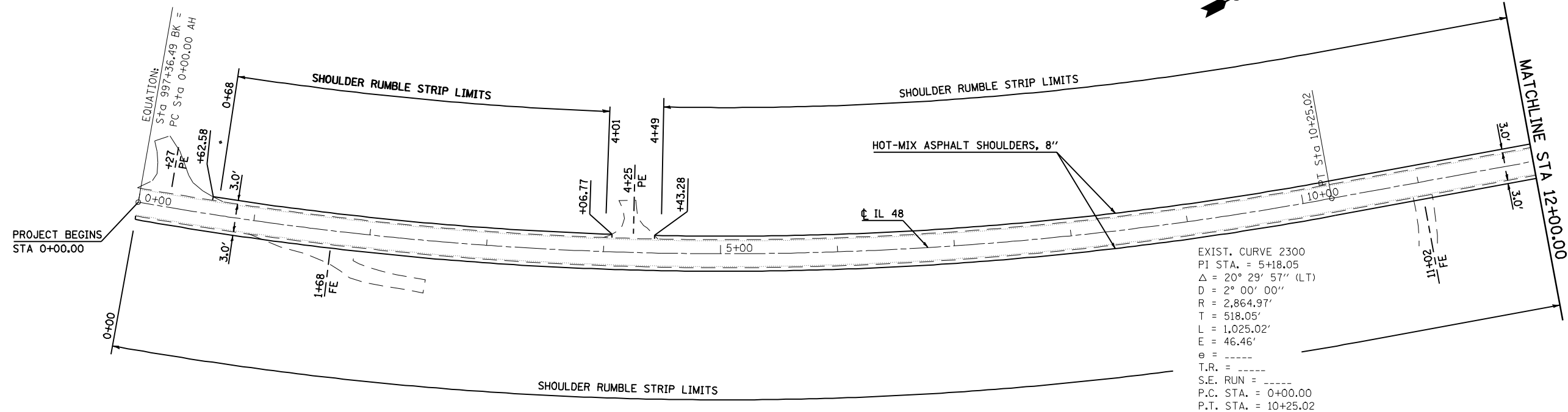
- ⑭ PROPOSED HOT-MIX ASPHALT SHOULDER 8"
- ⑮ PROPOSED AGGREGATE SHOULDERS, TYPE B (WEDGE)
- ⑯ PROPOSED SHOULDER RUMBLE STRIP
- ⑰ PROPOSED THERMO PAVEMENT MARKING, 5"

SHOULDER RUMBLE STRIP		LENGTH
LOCATION		(FOOT)
IL 48 - LEFT		
LT STA 0+68	TO LT STA 4+01	333
LT STA 4+49	TO LT STA 44+08	3,959
LT STA 45+87	TO LT STA 48+00	276
LT STA 56+64	TO LT STA 65+88	924
LT STA 66+45	TO LT STA 68+12	167
STA EQ 68+12.31 BK = 23+53.94 AH		
LT STA 23+54	TO LT STA 37+68	1,414
LT STA 38+42	TO LT STA 40+35	193
LT STA 41+36	TO LT STA 61+36	2,000
LT STA 62+22	TO LT STA 65+75	353
LT STA 66+73	TO LT STA 79+14	1,241
LT STA 82+21	TO LT STA 112+99	3,078
STA EQ 112+99.14 = 112+97.33		
LT STA 112+97	TO LT STA 115+70	273
LT STA 116+82	TO LT STA 147+64	3,082
LT STA 148+50	TO LT STA 168+63	2,013
LT STA 168+86	TO LT STA 185+62	1,676
STA EQ 188+05.74 = 188+02.67		
LT STA 189+21	TO LT STA 209+39	2,018
LT STA 217+98	TO LT STA 227+41	943
ST EQ 227+41.20 = 64+00.00		
LT STA 64+00	TO LT STA 64+20	20
LEFT TOTAL		23,900

IL 48 - RIGHT		
RT STA 0+00	TO RT STA 27+48	2,748
RT STA 27+96	TO RT STA 44+49	1,653
RT STA 45+59	TO RT STA 48+00	241
RT STA 54+42	TO RT STA 68+12	1,370
STA EQ 68+12.31 BK = 23+53.94 AH		
RT STA 23+54	TO RT STA 40+80	1,726
RT STA 41+31	TO RT STA 48+28	697
RT STA 48+85	TO RT STA 60+95	1,210
RT STA 61+92	TO RT STA 79+42	1,750
RT STA 82+43	TO RT STA 112+99	3,056
STA EQ 112+99.14 = 112+97.33		
RT STA 112+97	TO RT STA 115+67	270
RT STA 116+66	TO RT STA 151+41	3,475
RT STA 151+81	TO RT STA 154+63	282
RT STA 155+74	TO RT STA 168+70	1,296
RT STA 168+91	TO RT STA 187+13	1,822
STA EQ 188+05.74 = 188+02.67		
RT STA 190+15	TO RT STA 227+41	3,726
ST EQ 227+41.20 = 64+00.00		
RT STA 64+00	TO RT STA 64+20	20
RIGHT TOTAL		25,342
GRAND TOTAL		49,242

SHOULDER SCHEDULE					EXCAV & GRADING EXIST SHLDR (UNIT)	HOT-MIX ASPHALT SHLDRS, 8" (SQ YD)	AGG SHLDRS, TY, B (TON)
LOCATION		LENGTH					
IL 48- LEFT							
LT STA 0+62.58	TO LT STA 4+06.77	344.19	3.4	114.73	7.6		
LT STA 4+43.28	TO LT STA 44+08.09	3,964.81	39.6	1,321.60	87.8		
LT STA 45+86.88	TO LT STA 48+00.00	213.12	2.1	71.04	4.7		
LT STA 56+63.54	TO LT STA 65+93.73	930.19	9.3	310.06	20.6		
LT STA 66+39.45	TO LT STA 68+12.31	172.86	1.7	57.62	3.8		
STA. EQ. 68+12.31 BK. = 23+53.94 AH.							
LT STA 23+53.94	TO LT STA 37+73.81	1,419.87	14.2	473.29	31.4		
LT STA 38+36.34	TO LT STA 40+34.57	198.23	2.0	66.08	4.4		
LT STA 41+30.88	TO LT STA 61+41.06	2,010.18	20.1	670.06	44.5		
LT STA 62+16.29	TO LT STA 65+80.59	364.30	3.6	121.43	8.1		
LT STA 66+67.57	TO LT STA 79+14.00	1,246.43	12.5	415.48	27.6		
LT STA 85+82.00	TO LT STA 112+99.14	2,717.14	27.2	905.71	60.2		
STA. EQ. 112+99.14 BK. = 112+97.33 AH.							
LT STA 112+97.33	TO LT STA 115+70.25	272.92	2.7	90.97	6		
LT STA 116+82.24	TO LT STA 147+69.04	3,086.80	30.9	1,028.93	68.4		
LT STA 148+44.66	TO LT STA 168+69.55	2,024.89	20.2	674.96	44.8		
LT STA 168+80.02	TO LT STA 185+62.21	1,682.19	16.8	560.73	37.3		
STA. EQ. 188+05.74 BK. = 188+02.67 AH.							
LT STA 189+63.85	TO LT STA 209+38.98	1,975.13	19.8	658.38	43.7		
LT STA 217+67.24	TO LT STA 227+31.10	963.86	9.6	321.29	21.3		
LEFT TOTAL		23,587.11	235.7	7,862.36	522.2		
IL 48 - RIGHT							
RT STA 0+00.00	TO RT STA 27+53.68	2,753.68	27.5	917.89	61		
RT STA 27+90.98	TO RT STA 44+49.15	1,658.17	16.6	552.72	36.7		
RT STA 45+58.94	TO RT STA 48+00.00	241.06	2.4	80.35	5.3		
RT STA 54+42.46	TO RT STA 68+12.31	1,369.85	13.7	456.62	30.3		
STA. EQ. 68+12.31 BK. = 23+53.94 AH.							
RT STA 23+53.94	TO RT STA 40+85.58	1,731.64	17.3	577.21	38.3		
RT STA 41+26.83	TO RT STA 48+33.37	706.54	7.1	235.51	15.6		
RT STA 48+79.48	TO RT STA 60+99.48	1,220.00	12.2	406.67	27		
RT STA 61+86.12	TO RT STA 75+81.00	1,394.88	13.9	464.96	30.9		
RT STA 83+42.53	TO RT STA 112+99.14	2,956.61	29.6	985.54	65.5		
STA. EQ. 112+99.14 BK. = 112+97.33 AH.							
RT STA 112+97.33	TO RT STA 115+72.11	274.78	2.7	91.59	6.1		
RT STA 116+60.53	TO RT STA 151+46.09	3,485.56	34.9	1,161.85	77.2		
RT STA 151+75.64	TO RT STA 154+68.49	292.85	2.9	97.62	6.5		
RT STA 155+68.57	TO RT STA 168+75.10	1,306.53	13.1	435.51	28.9		
RT STA 168+86.04	TO RT STA 187+12.79	1,826.75	18.3	608.92	40.5		
STA. EQ. 188+05.74 BK. = 188+02.67 AH.							
RT STA 190+14.79	TO RT STA 227+31.10	3,716.31	37.2	1,238.77	82.3		
RIGHT TOTAL		21,218.90	212.2	7,072.96	469.8		
GRAND TOTAL		44,806	448	14,935	992		

PAVEMENT MARKINGS					THERMO PM - LINE 5" (FOOT)	PAVEMENT MARKING REMOVAL (SQ FT)
LOCATION						
WHITE EDGE LINES						
IL 48 - LEFT						
LT STA 0+00	TO LT STA 44+16			4,416	1,840.0	
LT STA 45+80	TO LT STA 68+13			2,233	930.4	
STA EQ 68+12.31 BK = 23+53.94 AH						
LT STA 23+54	TO LT STA 79+14			5,560	2,316.7	
LT STA 85+82	TO LT STA 112+99			2,717	1,132.1	
ST EQ 112+99.14 = 112+97.33						
LT STA 112+97	TO LT STA 115+71			274	114.2	
LT STA 116+82	TO LT STA 185+62			6,880	2,866.7	
LT STA 189+20	TO LT STA 209+39			2,019	841.3	
LT STA 217+66	TO LT STA 227+42			976	406.7	
ST EQ 227+41.20 = 64+00.00						
LT STA 64+00	TO LT STA 64+20			20	8.3	
LEFT TOTAL				25,095	10,456.4	
WHITE EDGE LINES						
IL 48						
RT STA 0+00	TO RT STA 44+50			4,450	1,854.2	
RT STA 45+59	TO RT STA 68+13			2,254	939.2	
STA EQ 68+12.31 BK = 23+53.94 AH						
RT STA 23+54	TO RT STA 79+42			5,588	2,328.3	
RT STA 82+42	TO RT STA 112+99			3,057	1,273.8	
ST EQ 112+99.14 = 112+97.33						
RT STA 112+97	TO RT STA 115+64			267	111.3	
RT STA 116+65	TO RT STA 187+13			7,048	2,936.7	
RT STA 190+15	TO RT STA 227+42			3,727	1,552.9	
ST EQ 227+41.20 = 64+00.00						
RT STA 64+00	TO RT STA 64+20			20	8.3	
RIGHT TOTAL				26,411	11,004.7	
GRAND TOTAL				51,506	21,461.1	



* D-6 SHLDR RUMBLE STRIPS 2010

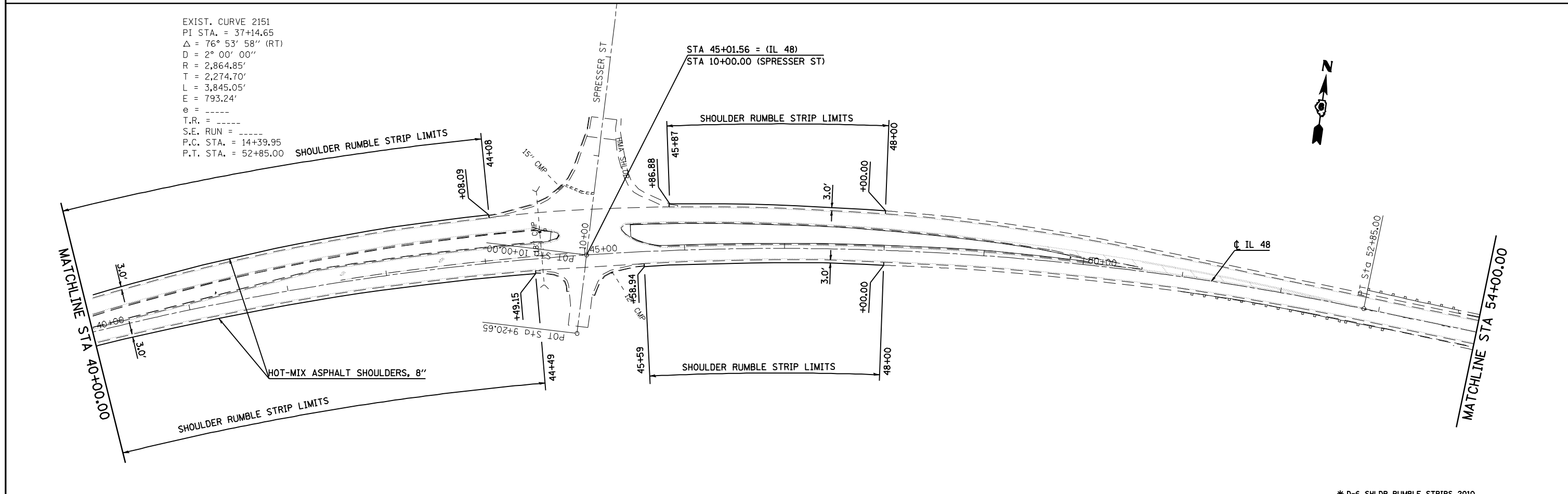
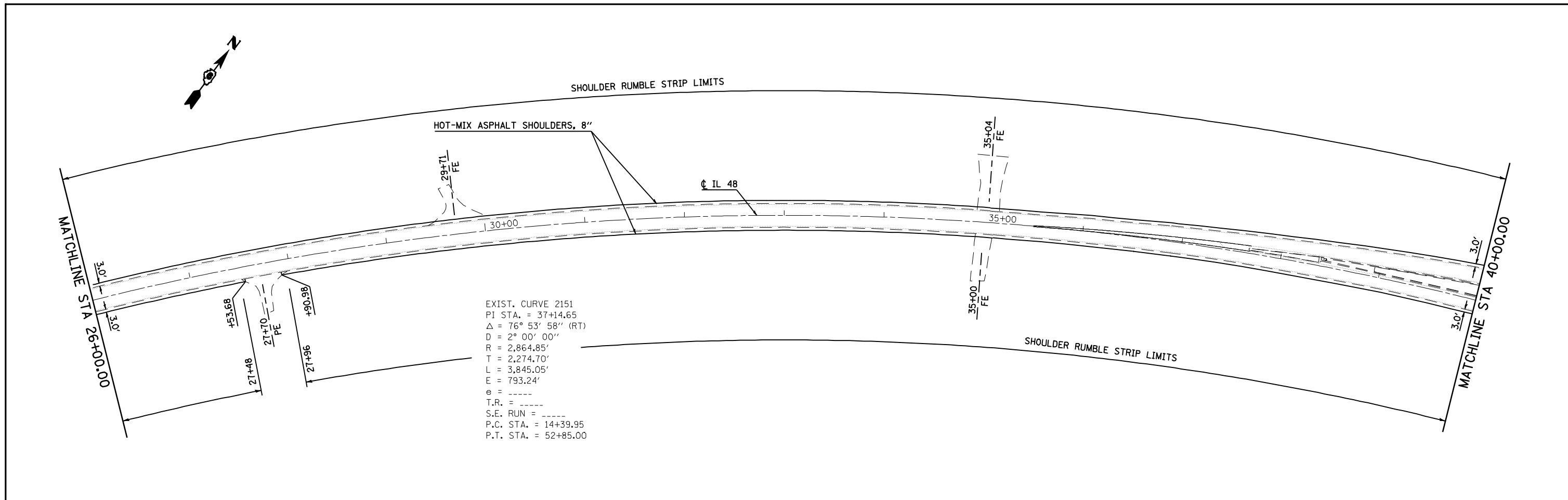
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
e:\pwwork\pwwid\LAUGHLINRL\0128096\0672C78-sht-plan1.dgn		DRAWN -	REVISED -
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Oct-02-2009 09:06:44AM		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

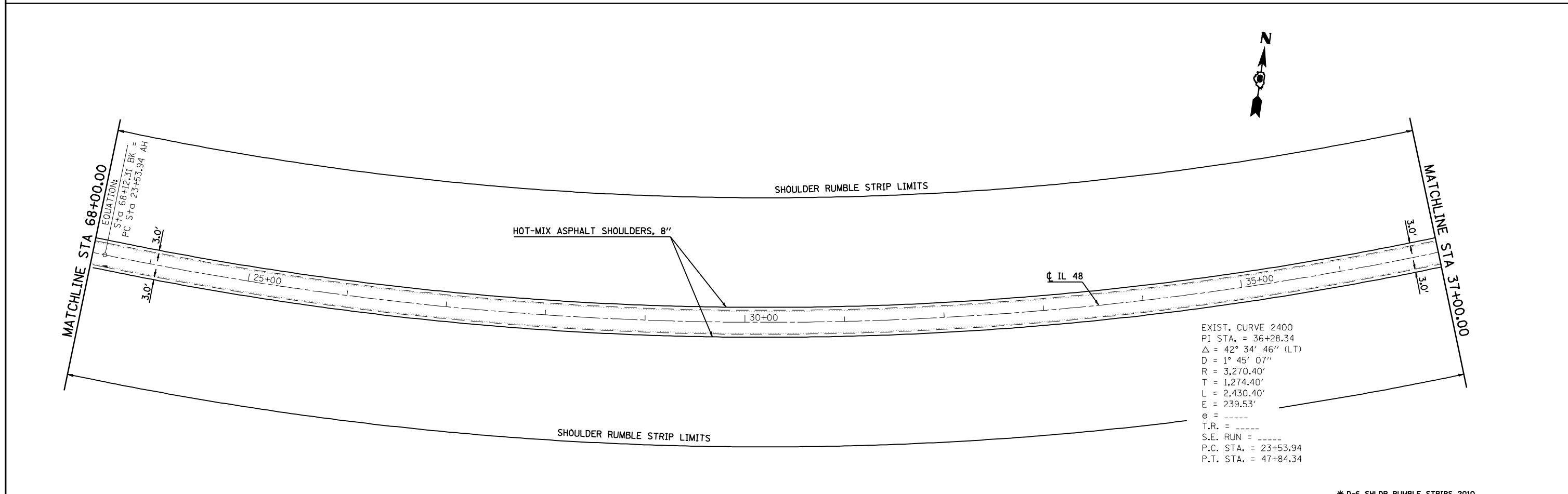
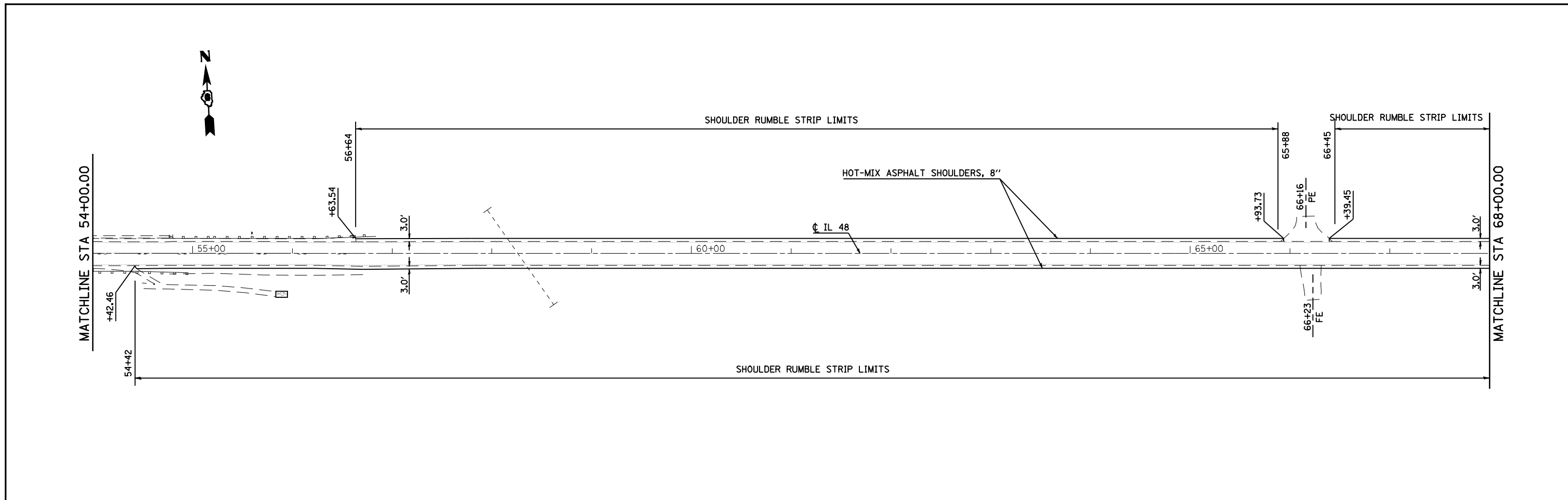
**PLAN SHEETS FAP 714 (IL 48)
SECTION D6 RUMBLE STRIPS 2010**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
714	*	CHRISTIAN	18	8
CONTRACT NO. 72C78				
ILLINOIS FED. AID PROJECT				



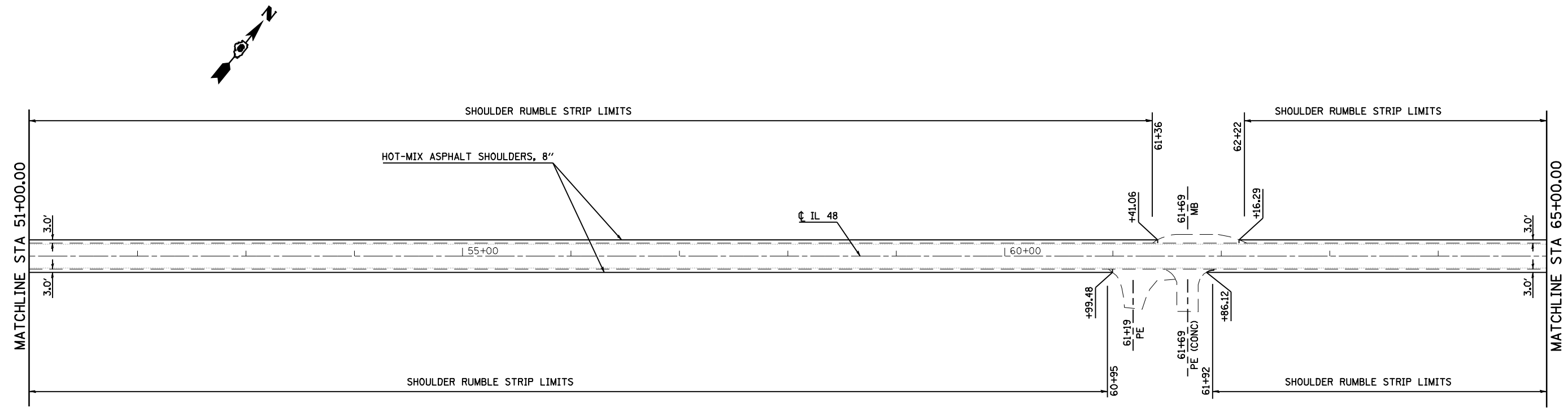
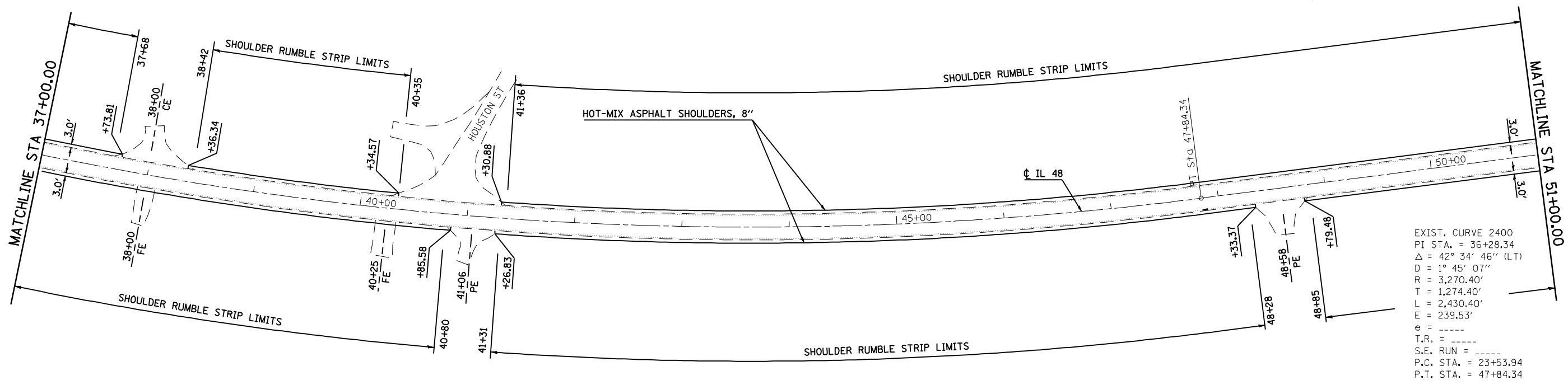
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEETS FAP 714 (IL 48) SECTION D6 RUMBLE STRIPS 2010			* D-6 SHLDR RUMBLE STRIPS 2010	
es:\pwork\pwork\LAUGHLINR1\0128096\0672C78-shr-plan1.dgn		DRAWN -	REVISED -		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -		T14	*	CHRISTIAN	18	9
PLOT DATE = Oct-02-2009 09:06:49AM		DATE -	REVISED -		CONTRACT NO. 72C78			ILLINOIS FED. AID PROJECT	
				SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA.	TO STA.	



EXIST. CURVE 2400
 PI STA. = 36+28.34
 $\Delta = 42^\circ 34' 46''$ (LT)
 $D = 1^\circ 45' 07''$
 $R = 3,270.40'$
 $T = 1,274.40'$
 $L = 2,430.40'$
 $E = 239.53'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 23+53.94$
 $P.T. \text{ STA.} = 47+84.34$

* D-6 SHLDR RUMBLE STRIPS 2010

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEETS FAP 714 (IL 48) SECTION D6 RUMBLE STRIPS 2010			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pwork\PWIDOT\LAUGHLINRL\0128096\0672C78-sht-plan1.dgn		DRAWN -	REVISED -		714	*	CHRISTIAN	18	10			
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 72C78							
PLOT DATE = Oct-02-2009 09:06:54AM		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA.	TO STA.				



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
er:\pwork\pwidot\LAUGHLINRL\0128096\0672C78-shr-plan1.dgn		DRAWN -	REVISED -
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Oct-02-2009 09:06:58AM		DATE -	REVISED -

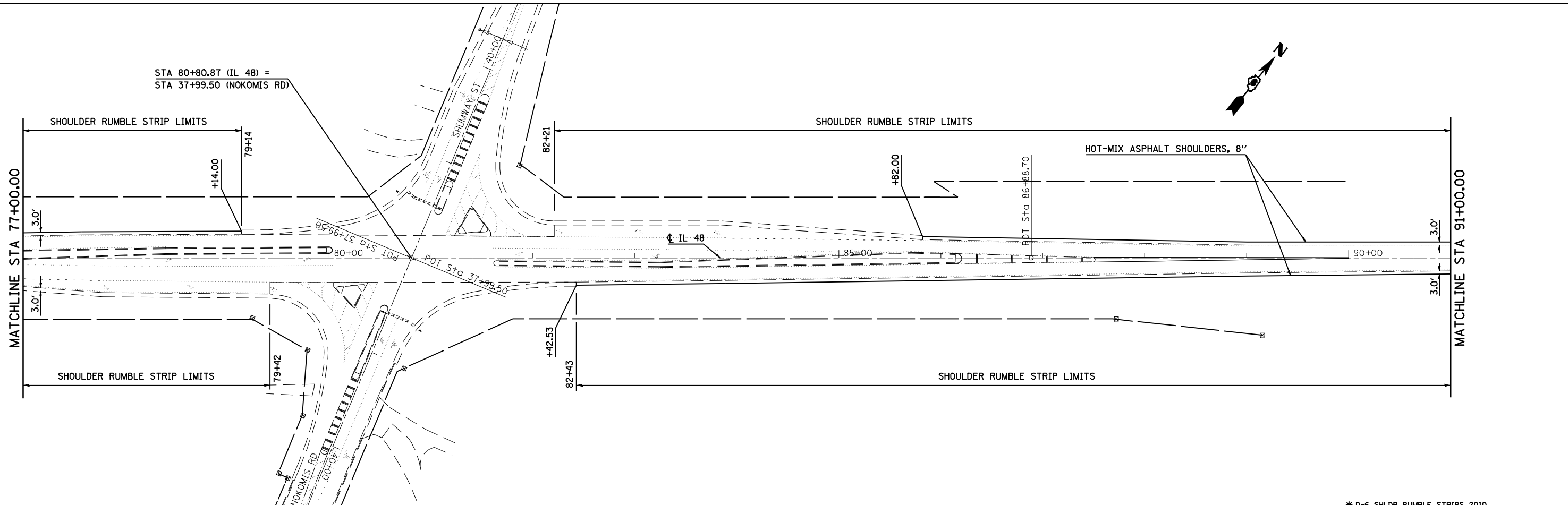
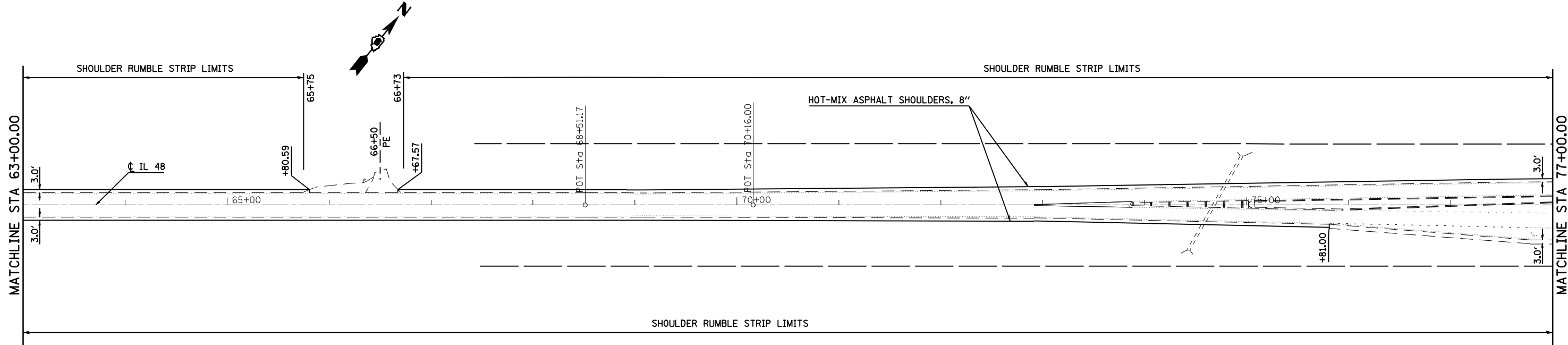
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEETS FAP 714 (IL 48)
SECTION D6 RUMBLE STRIPS 2010**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

* D-6 SHLDR RUMBLE STRIPS 2010

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
714	*	CHRISTIAN	18	11
CONTRACT NO. 72C78				
ILLINOIS FED. AID PROJECT				



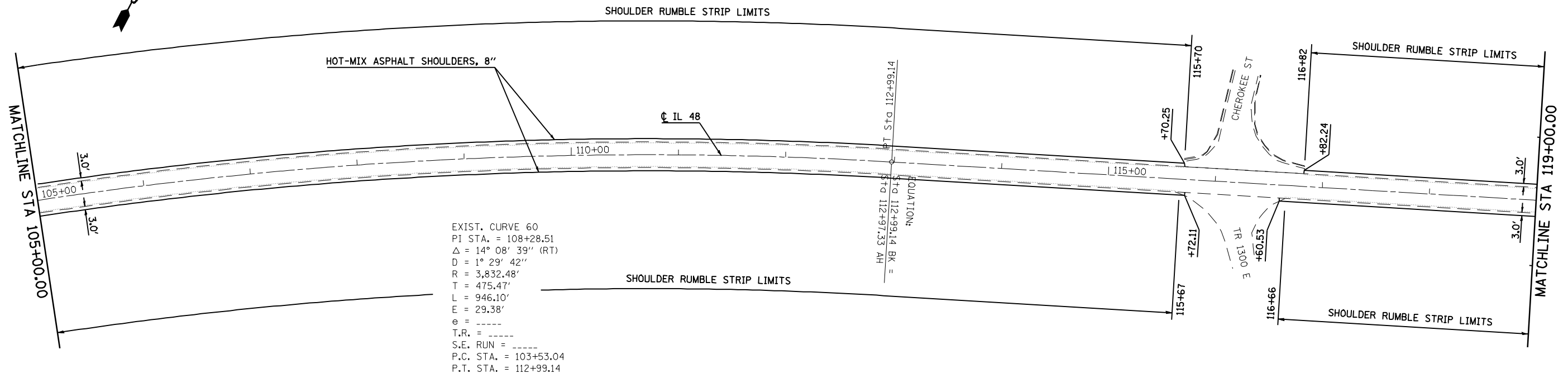
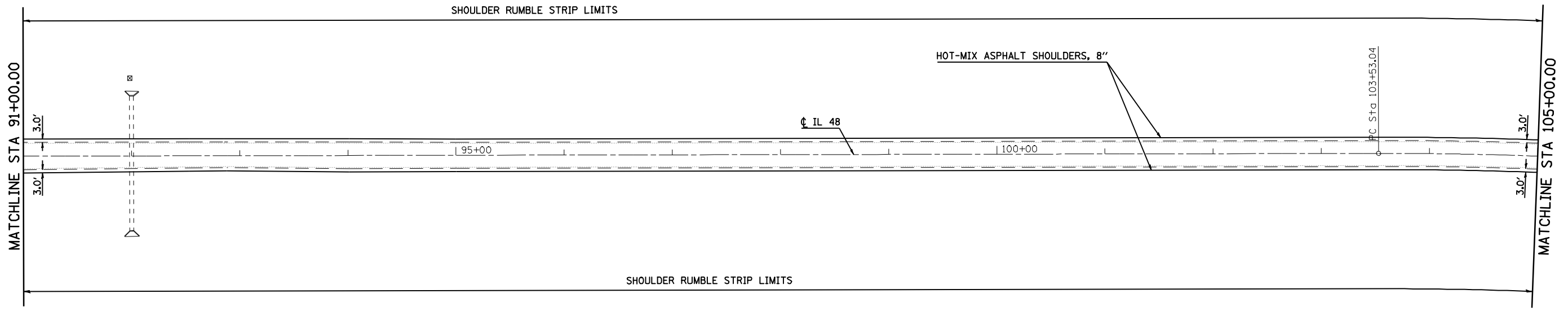
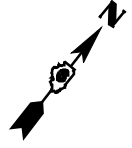
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
er:\pwwork\pwwid\LAUGHLINRL\0128096\0672C78-sht-plan1.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEETS FAP 714 (IL 48)
SECTION D6 RUMBLE STRIPS 2010**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

* D-6 SHLDR RUMBLE STRIPS 2010		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
714	*	CHRISTIAN	18	12	CONTRACT NO. 72C78	
ILLINOIS FED. AID PROJECT						



EXIST. CURVE 60
 PI STA. = 108+28.51
 $\Delta = 14^\circ 08' 39''$ (RT)
 $D = 1^\circ 29' 42''$
 $R = 3,832.48'$
 $T = 475.47'$
 $L = 946.10'$
 $E = 29.38'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 103+53.04$
 $P.T. \text{ STA.} = 112+99.14$

EQUATION:
 $Y = 1.12 + 99.14 \text{ BK} =$
 $Y = 112 + 97.33 \text{ AH}$

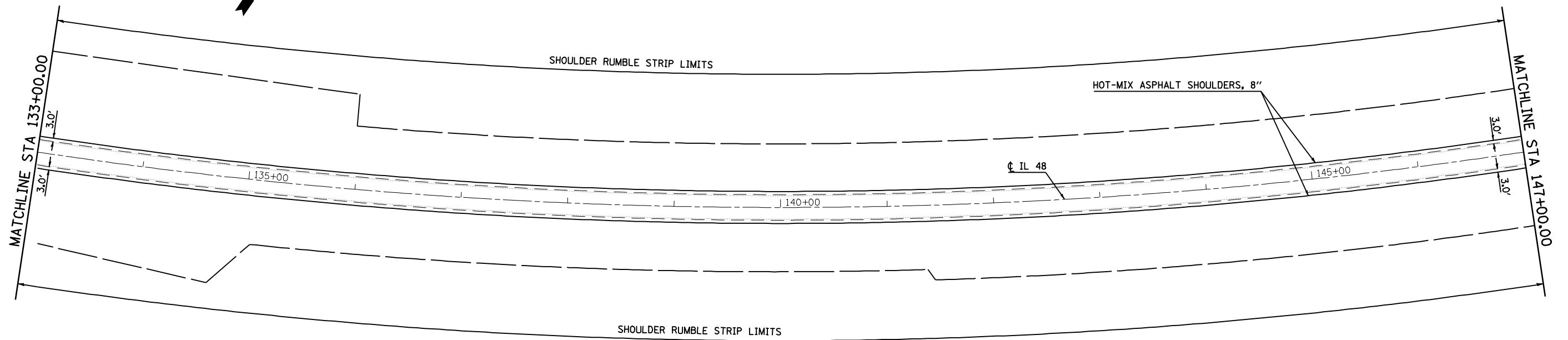
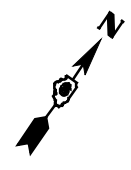
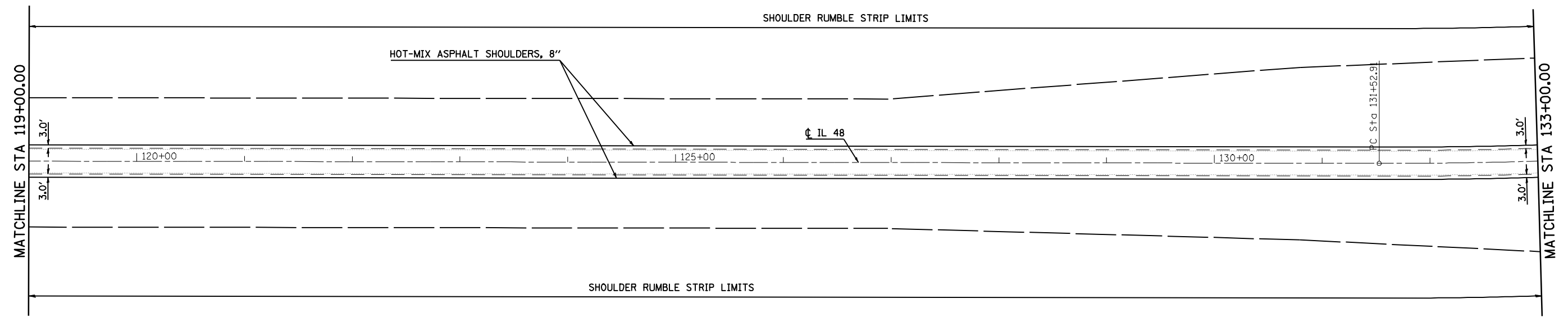
* D-6 SHLDR RUMBLE STRIPS 2010

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
es:\pwork\pwork\LAUGHLINRL\0128096\0672C78-shr-plan1.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Oct-02-2009 09:07:08AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS FAP 714 (IL 48) SECTION D6 RUMBLE STRIPS 2010			
SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
714	*	CHRISTIAN	18	13
CONTRACT NO. 72C78				
ILLINOIS FED. AID PROJECT				



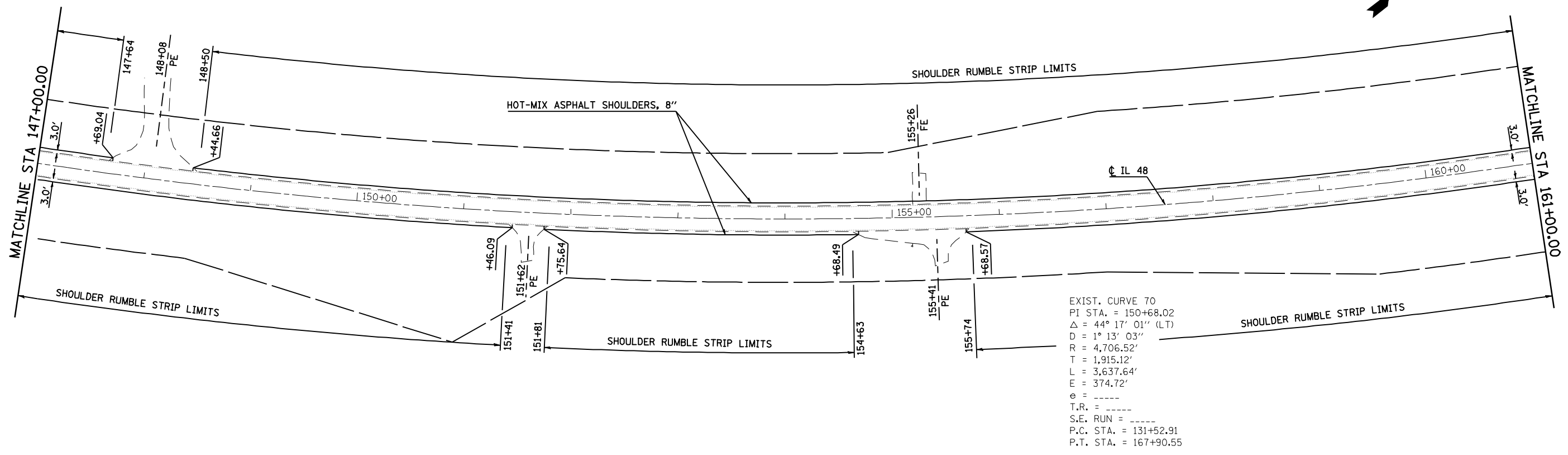
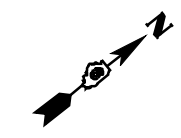
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
e:\pwork\pwidot\LAUGHLINRL\0128096\0672C78-sht-plan1.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Oct-02-2009 09:07:12AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

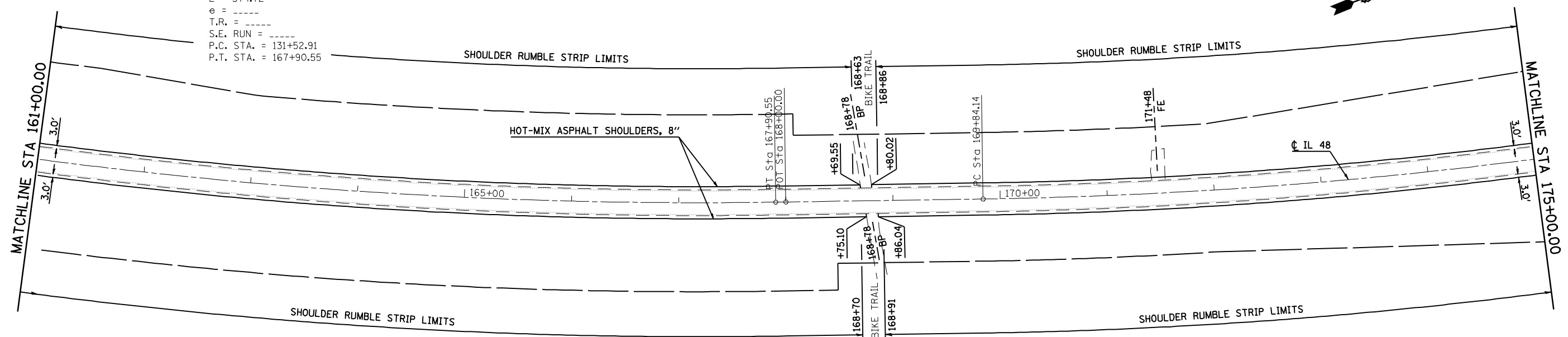
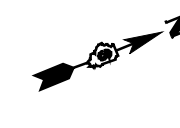
**PLAN SHEETS FAP 714 (IL 48)
SECTION D6 RUMBLE STRIPS 2010**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

* D-6 SHLDR RUMBLE STRIPS 2010				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
714	*	CHRISTIAN	18	14
CONTRACT NO. 72C78				
ILLINOIS FED. AID PROJECT				



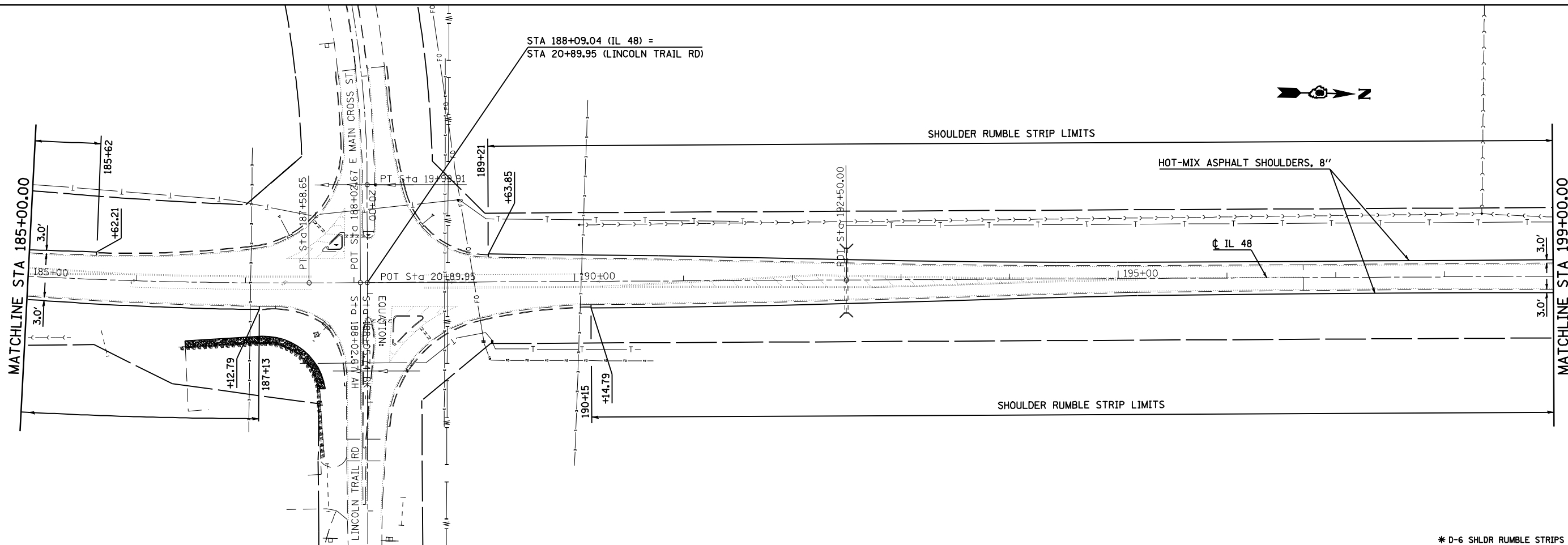
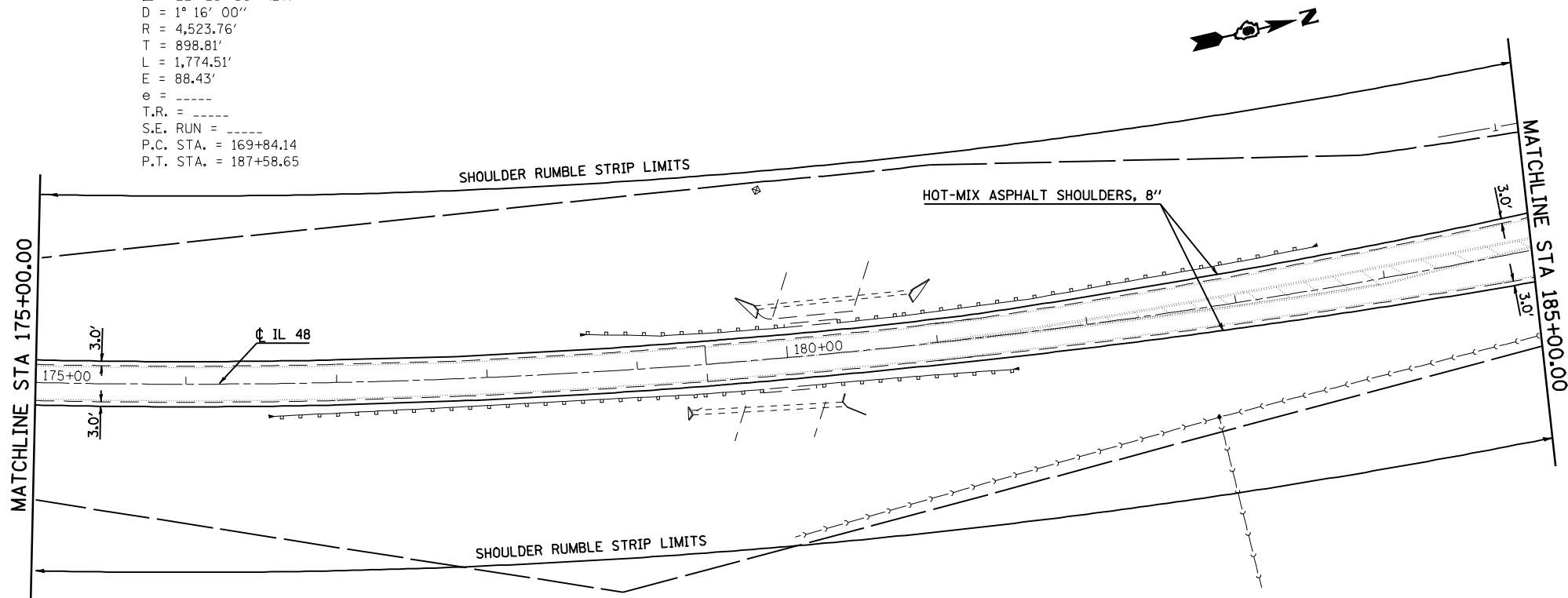
EXIST. CURVE 70
 PI STA. = 150+68.02
 $\Delta = 44^\circ 17' 01''$ (LT)
 $D = 1^\circ 13' 03''$
 $R = 4,706.52'$
 $T = 1,915.12'$
 $L = 3,637.64'$
 $E = 374.72'$
 $e = \text{-----}$
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 131+52.91
 P.T. STA. = 167+90.55



* D-6 SHLDR RUMBLE STRIPS 2010

FILE NAME = e:\pwwork\pwidot\LAUGHLINRL\0128096\0672C78-sht-plan1.dgn	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEETS FAP 714 (IL 48) SECTION D6 RUMBLE STRIPS 2010			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -		714	*	CHRISTIAN	18	15			
PLOT DATE = Oct-02-2009 09:07:17AM	DATE -	REVISED -	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 72C78		
ILLINOIS FED. AID PROJECT												

EXIST. CURVE 80
 PI STA. = 178+82.95
 $\Delta = 22^\circ 28' 30''$ (LT)
 D = 1° 16' 00''
 R = 4,523.76'
 T = 898.81'
 L = 1,774.51'
 E = 88.43'
 e = ----
 T.R. = ----
 S.E. RUN = ----
 P.C. STA. = 169+84.14
 P.T. STA. = 187+58.65



* D-6 SHLDR RUMBLE STRIPS 2010

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
es:\pwork\pwork\LAUGHLINRL\0128096\0672C78-sht-plan1.dgn		DRAWN -	REVISED -
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Oct-02-2009 09:07:22AM		DATE -	REVISED -

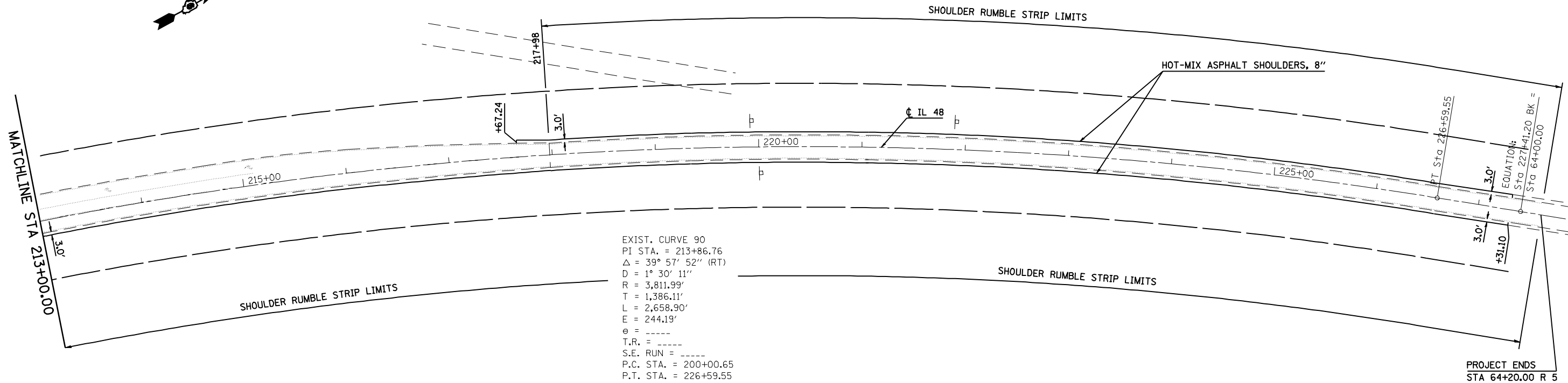
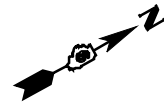
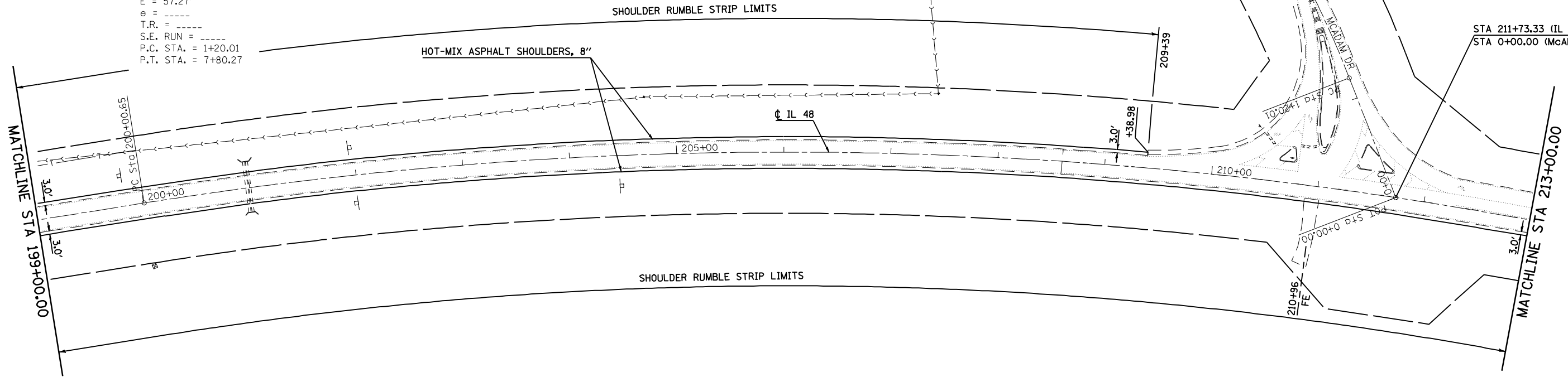
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN SHEETS FAP 714 (IL 48)
 SECTION D6 RUMBLE STRIPS 2010**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
714	*	CHRISTIAN	18	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72C78	

EXIST. CURVE 96
 PI STA. = 4+62.76
 $\Delta = 37^\circ 56' 35''$ (LT)
 $D = 5^\circ 44' 48''$
 $R = 997.02'$
 $T = 342.75'$
 $L = 660.26'$
 $E = 57.27'$
 $e =$ -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 1+20.01
 P.T. STA. = 7+80.27



EXIST. CURVE 90
 PI STA. = 213+86.76
 $\Delta = 39^\circ 57' 52''$ (RT)
 $D = 1^\circ 30' 11''$
 $R = 3,811.99'$
 $T = 1,386.11'$
 $L = 2,658.90'$
 $E = 244.19'$
 $e =$ -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 200+00.65
 P.T. STA. = 226+59.55

* D-6 SHLDR RUMBLE STRIPS 2010

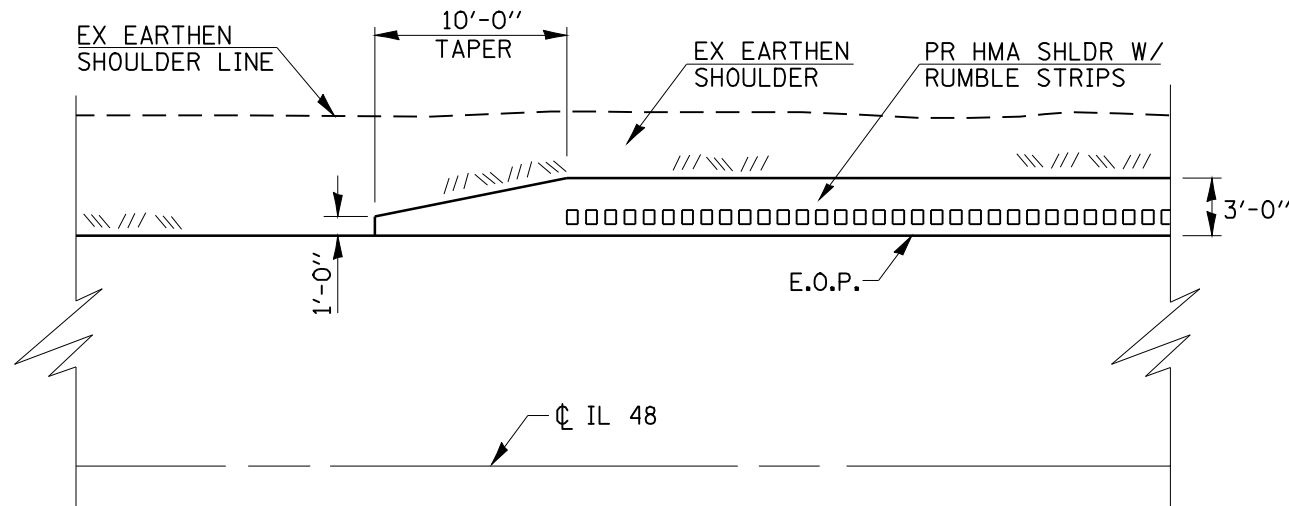
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
es:\pwork\pwidot\LAUGHLINRL\0128096\0672C78-sht-plan1.dgn		DRAWN -	REVISED -
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Oct-02-2009 09:07:27AM		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN SHEETS FAP 714 (IL 48)
 SECTION D6 RUMBLE STRIPS 2010

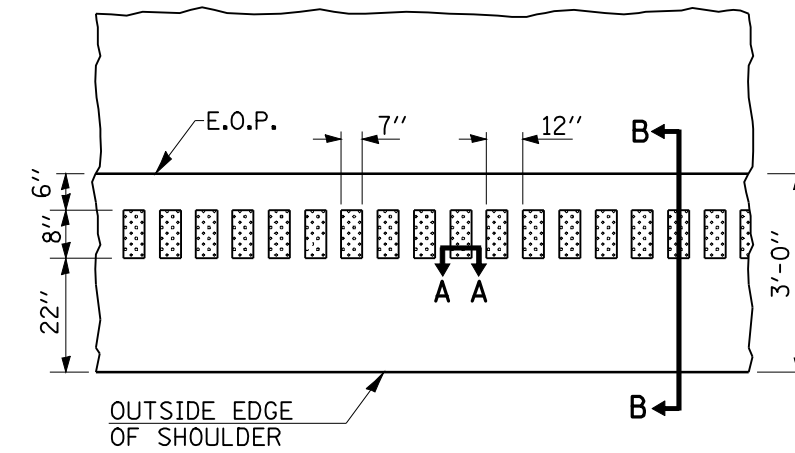
SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
714	*	CHRISTIAN	18	17
CONTRACT NO. 72C78				
ILLINOIS FED. AID PROJECT				

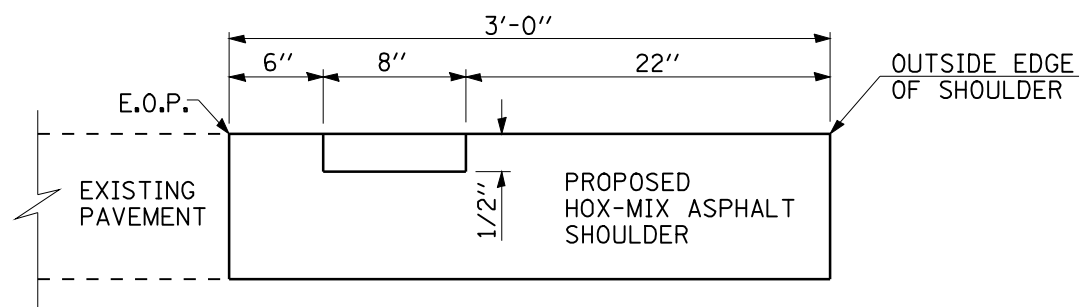


TAPER DETAIL FOR PROPOSED HOT-MIX ASPHALT SHOULDERS

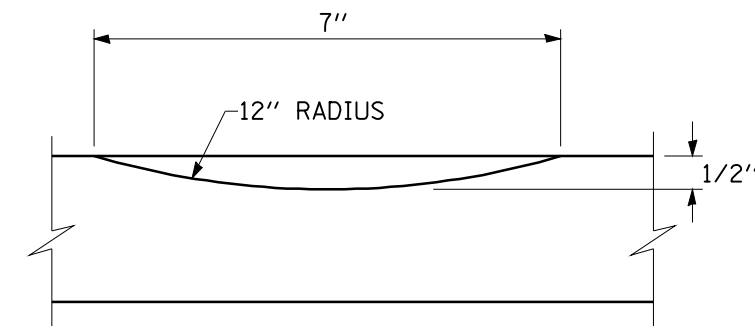
(TRANSITION WIDTH FOR PROPOSED HMA SHOULDERS FROM 1'-0" TO 3'-0" WITHIN 10'-0")



PLAN VIEW



SECTION B-B



SECTION A-A

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
e:\pwork\pwork\LAUGHLINRL\0128096\0672C78-sht-details.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RUMBLE STRIP DETAILS

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

* D-6 SHLDR RUMBLE STRIPS 2010

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T14	*	CHRISTIAN	18	18
CONTRACT NO. 72C78			ILLINOIS FED. AID PROJECT	