

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

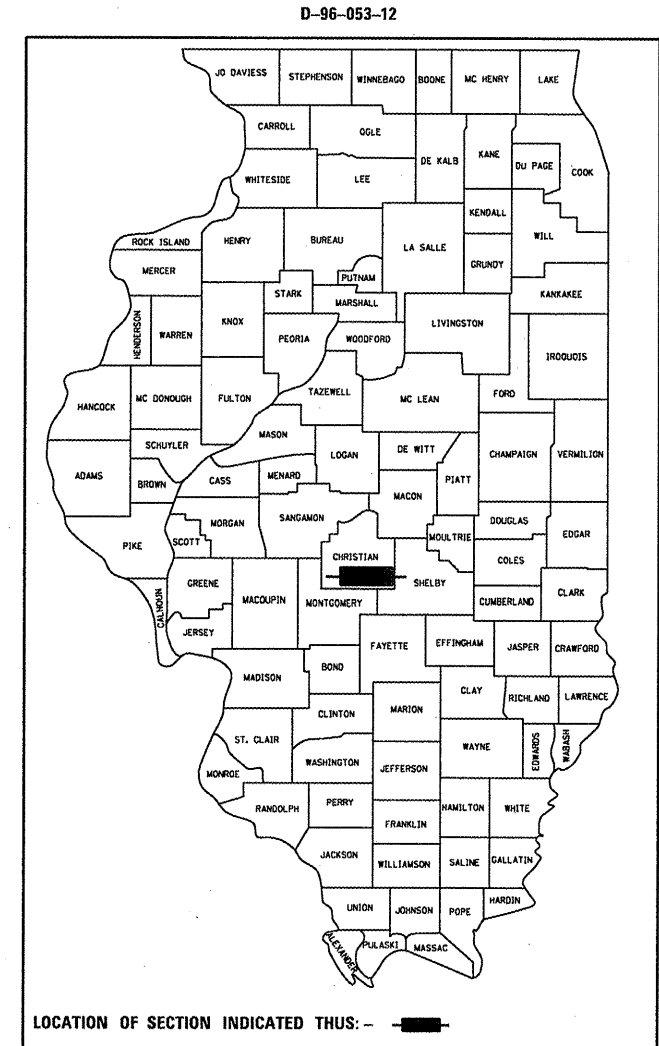
FAP ROUTE 322&325 (US 51 & IL 16)
SECTION (14)RS-4 & (43)RS-7
PROJECT F-NHF-000S (894)
TYPE of IMPROVEMENT
CHRISTIAN COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(14)RS-4 & (43)RS-7	CHRISTIAN	23	1
		ILLINOIS	CONTRACT NO. 72F38	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY STANDARDS

000001-06	701306-03
406201-01	701311-03
442201-03	701901-02
701006-03	780001-03
701201-04	781001-03
701301-04	



ADT'S

US 51 /IL 16	7250 (%SU = 5.5 ; %MU = 7.6)
US 51 NORTH	3600 (%SU = 6.9 ; %MU = 6.9)
IL 16	4700 (%SU = 4.8 ; %MU = 4.3)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 28 20 12

Regis Z. Omber
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 11 20 12
John D. Baranzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

May 11 20 12
William R. Fleck
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

C-96-053-12

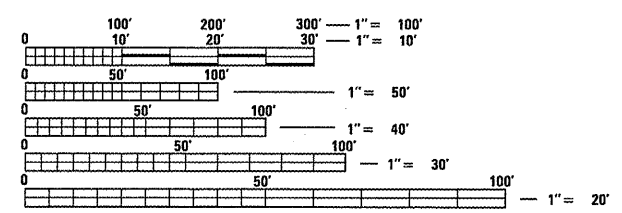
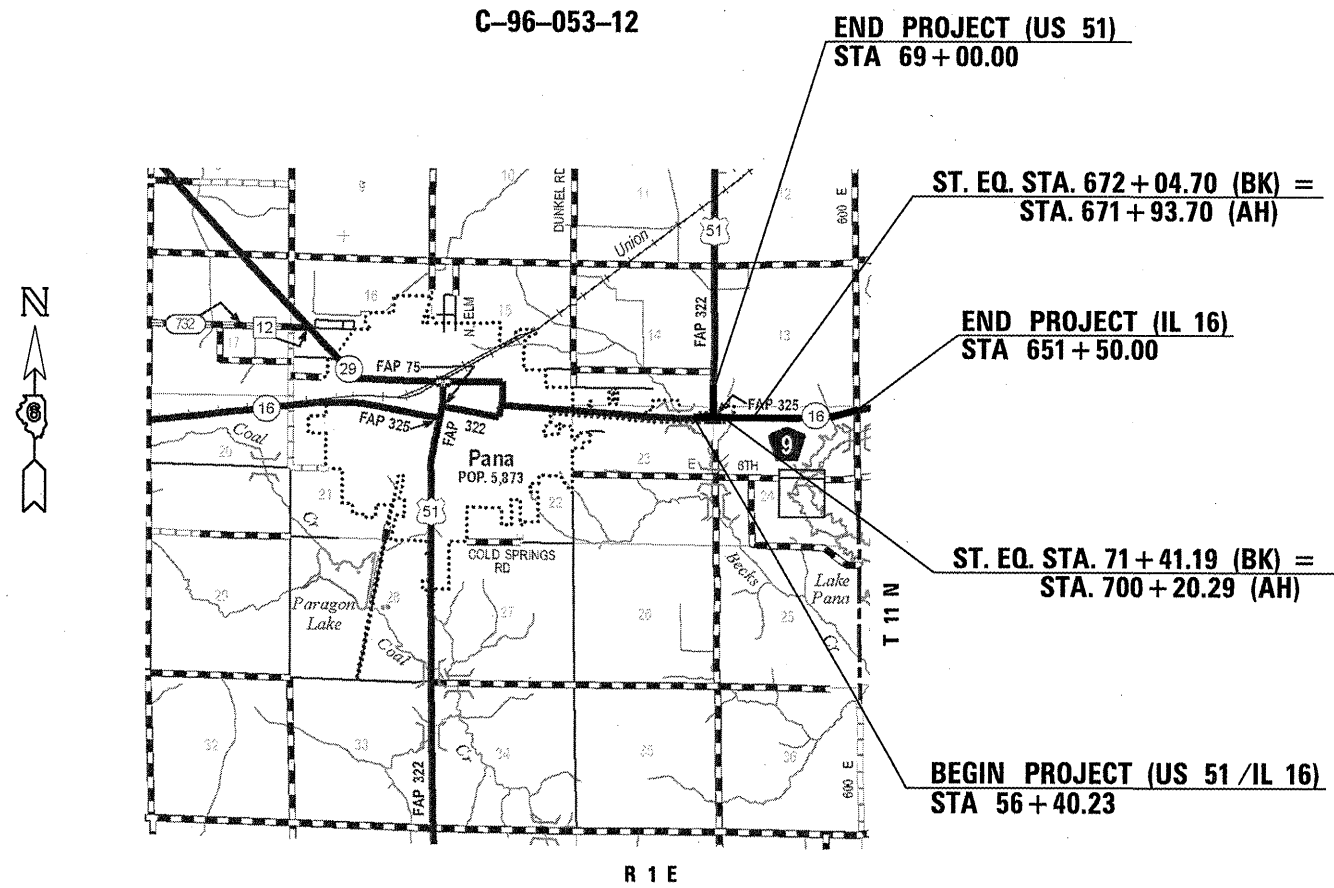
END PROJECT (US 51)
STA 69+00.00

ST. EQ. STA. 672+04.70 (BK) =
STA. 671+93.70 (AH)

END PROJECT (IL 16)
STA 651+50.00

ST. EQ. STA. 71+41.19 (BK) =
STA. 700+20.29 (AH)

BEGIN PROJECT (US 51 /IL 16)
STA 56+40.23



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

PROJECT ENGINEER JEFF MYERS (217)782-4761
TEAM ENGINEER ED KERN (217)524-7547

GROSS LENGTH = 6,923 FT. = 1.3 MILE
NET LENGTH = 6,923 FT. = 1.3 MILE

CONTRACT NO. 72F38

L05E
NHF
FAP 322

L24E
F
FAP 325

ILLINOIS DEPARTMENT OF TRANSPORTATION				US 51	IL 16
SUMMARY OF QUANTITIES				80% FED	80% FED
				20% STATE	20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0005	0005
35800100	PREPARATION OF BASE	SQ YD	302		302
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	22	9	13
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	11.4	2.9	8.5
40600300	AGGREGATE (PRIME COAT)	TON	61	16	45
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	1,230	302	928
40600895	CONSTRUCTING TEST STRIP	EACH	1		1
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1,155	744	411
40600990	TEMPORARY RAMP	SQ YD	64	34	30
40603540	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2,460	604	1,856
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	160	45	115
44000152	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	26,473	7,184	19,289
44200192	PAVEMENT PATCHING, TYPE II, 16 INCH	SQ YD	85	65	20
44200196	PAVEMENT PATCHING, TYPE III, 16 INCH	SQ YD	40	18	22
44200198	PAVEMENT PATCHING, TYPE IV, 16 INCH	SQ YD	52	26	26

LOSE
NH
FAP 322

L24E
F
FAP 325

ILLINOIS DEPARTMENT OF TRANSPORTATION				US 51	IL 16
SUMMARY OF QUANTITIES				80% FED	80% FED
				20% STATE	20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0005	0005
48101200	AGGREGATE SHOULDERS, TYPE B	TON	438	66	372
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5	0.5
70300100	SHORT TERM PAVEMENT MARKING	FOOT	5,193	1,132	4,061
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	78	47	31
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	17,862	6,980	10,882
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	378	242	136
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	788	369	419
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	47	27	20
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,731	377	1,354
X 78004200	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS	SQ FT	78	47	31
X 78004280	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"	FOOT	47	27	20
X 78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	17,862	6,980	10,882

X SPECIALTY ITEM

FILE NAME =	USER NAME = sparksgu	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pw\work\pvidot\sparksgu\d0300761\067	38-sht-500.dgn	DRAWN -	REVISED -			322	(14)RS-4 & (43)RS-7	CHRISTIAN	23	4	
	PLOT SCALE = 100.0000 1/16"	CHECKED -	REVISED -			SCALE: NTS		SHEET 2 OF 2 SHEETS		STA. TO STA.	
	PLOT DATE = Mar-28-2012 08:58:04AM	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

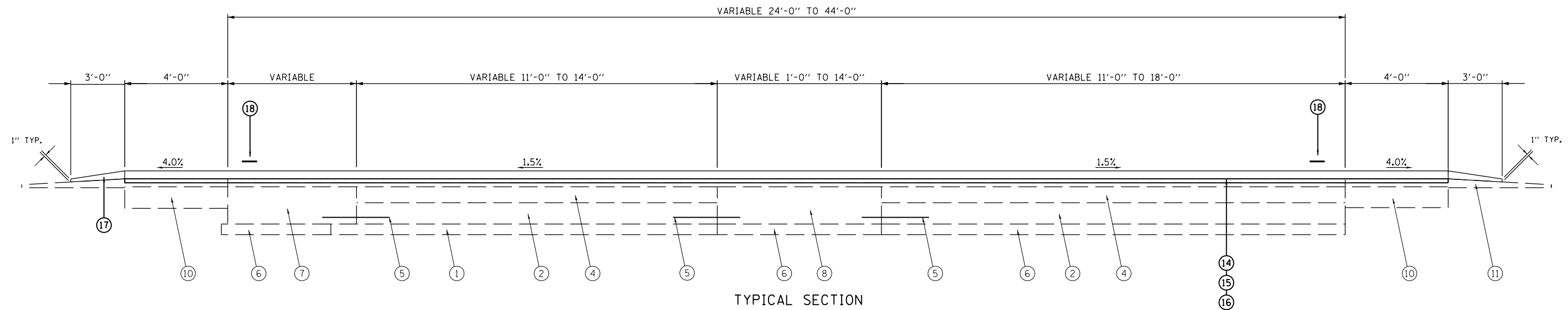
LOSE
NHF
FAP 322

L24E
F
FAP 325

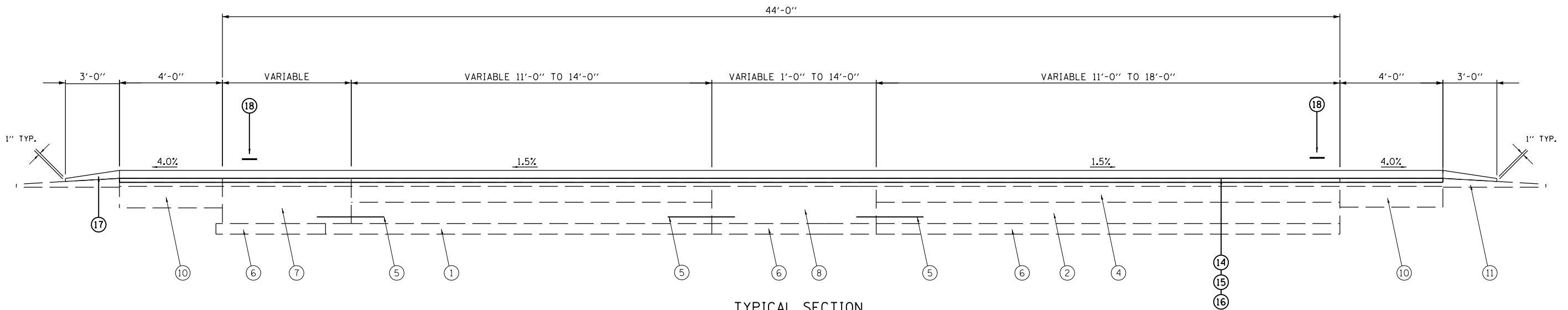
ILLINOIS DEPARTMENT OF TRANSPORTATION				US 51	IL 16
SUMMARY OF QUANTITIES				80% FED	80% FED
				20% STATE	20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				0005	0005
X 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	378	242	136
X 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	788	369	419
X 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	154	55	99
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	154	55	99

X SPECIALTY ITEM

FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 72F38						
PLOT DATE = Mar-28-2012 08:58:04AM	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									



TYPICAL SECTION
US 51 / IL 16
STA. 56+40.23 TO STA. 63+00.00



TYPICAL SECTION
US 51 / IL 16
STA. 63+00.00 TO STA. 68+75.86

LEGEND

- | | | | |
|---|--|---|--|
| ① | EXISTING SUBBASE - 4" | ⑭ | PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL (3/4") |
| ② | EXISTING PCC PAVEMENT - 8" | ⑮ | PROPOSED LEVELING BINDER (MACHINE METHOD), N70 (3/4") |
| ③ | EXISTING 18' PCC PAVEMENT(9-6-9) WITH 8' CONCRETE WIDENING | ⑯ | PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (1 1/2") |
| ④ | EXISTING BITUMINOUS OVERLAY - 6" | ⑰ | PROPOSED AGGREGATE SHOULDERS, TYPE B |
| ⑤ | EXISTING TIE BAR (SEE STANDARD 420001-02) | ⑱ | PROPOSED PAVEMENT MARKING |
| ⑥ | EXISTING SUBBASE GRANULAR MATERIAL, TYPE B - 4" | | |
| ⑦ | EXISTING PCC BASE COURSE WIDENING - 12" | | |
| ⑧ | EXISTING PCC BASE COURSE 12" | | |
| ⑨ | EXISTING BITUMINOUS SHOULDERS | | |
| ⑩ | EXISTING BITUMINOUS SHOULDERS - 12" | | |
| ⑪ | EXISTING AGGREGATE SHOULDERS, TYPE A | | |
| ⑫ | EXISTING BITUMINOUS OVERLAY - 7" | | |
| ⑬ | EXISTING PCC BASE COURSE WIDENING - 9" | | |

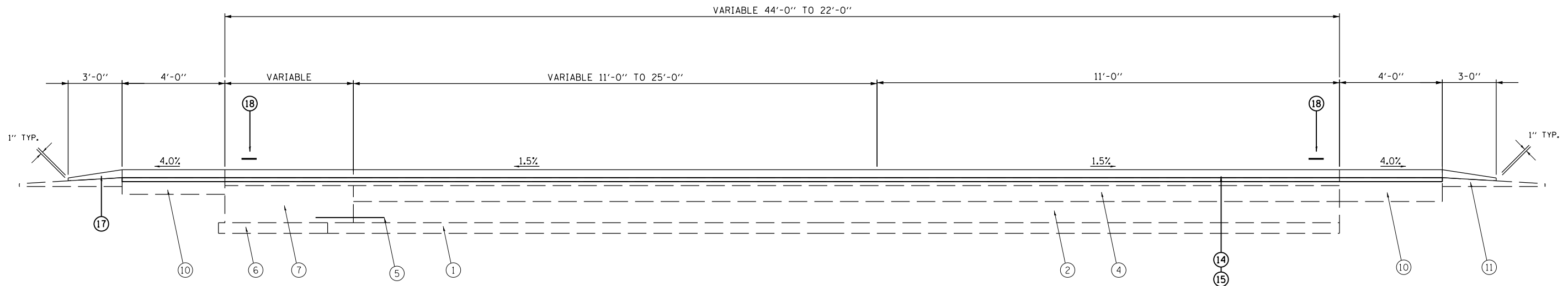
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

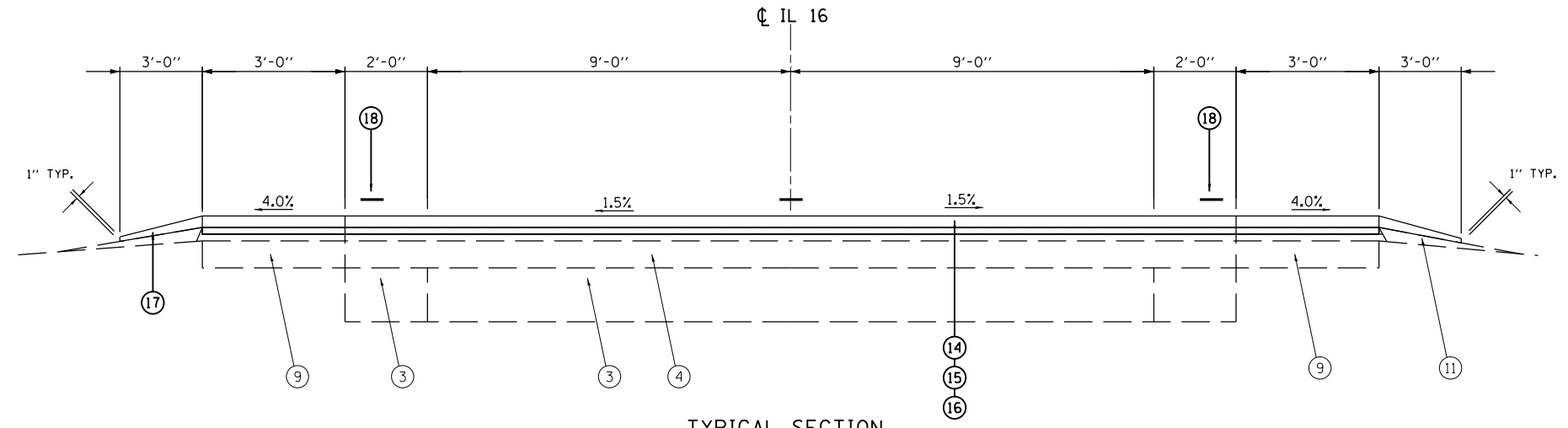
IL 16 / US 51
TYPICAL SECTIONS

SCALE: NTS SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(14)RS-4 & (43)RS-7	CHRISTIAN	23	6
CONTRACT NO. 72F38			ILLINOIS FED. AID PROJECT	



TYPICAL SECTION
 IL 16
 STA. 68+75.86 TO 71+41.19 (BK)
 = 700+20.29 (AH) TO 698+06.58
 STA. EQ. 71+41.19 (BK) = 700+20.29 (AH)

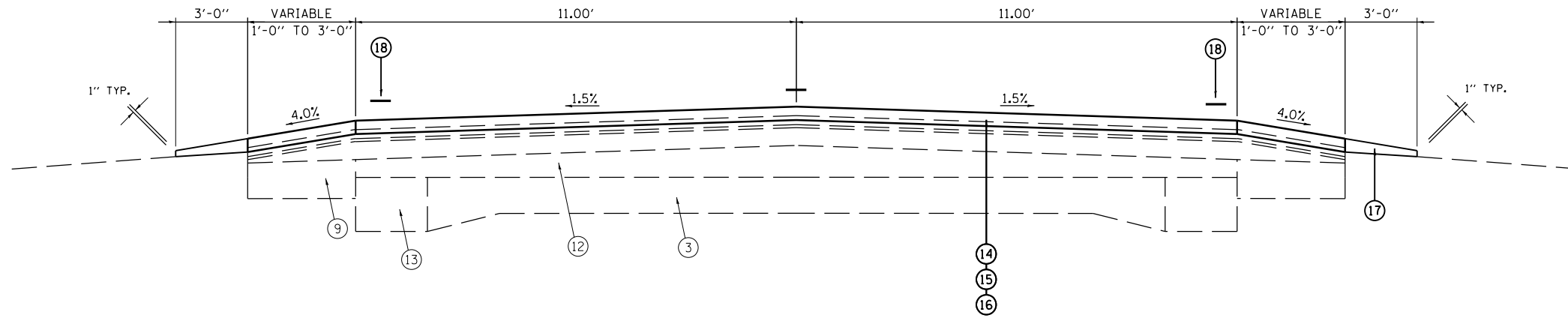


TYPICAL SECTION
 IL 16
 STA. 698+06.58 TO 651+50.00
 STA. EQ. 672+04.70 (BK) = 671+93.70 (AH)

LEGEND

- ① EXISTING SUBBASE - 4"
- ② EXISTING PCC PAVEMENT - 8"
- ③ EXISTING 18' PCC PAVEMENT(9-6-9) WITH 8' CONCRETE WIDENING
- ④ EXISTING BITUMINOUS OVERLAY - 6"
- ⑤ EXISTING TIE BAR (SEE STANDARD 420001-02)
- ⑥ EXISTING SUBBASE GRANULAR MATERIAL, TYPE B - 4"
- ⑦ EXISTING PCC BASE COURSE WIDENING - 12"
- ⑧ EXISTING PCC BASE COURSE 12"
- ⑨ EXISTING BITUMINOUS SHOULDERS
- ⑩ EXISTING BITUMINOUS SHOULDERS - 12"
- ⑪ EXISTING AGGREGATE SHOULDERS, TYPE A
- ⑫ EXISTING BITUMINOUS OVERLAY - 7"
- ⑬ EXISTING PCC BASE COURSE WIDENING - 9"
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL (3/4")
- ⑮ PROPOSED LEVELING BINDER (MACHINE METHOD), N70 (3/4")
- ⑯ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (1 1/2")
- ⑰ PROPOSED AGGREGATE SHOULDERS, TYPE B
- ⑱ PROPOSED PAVEMENT MARKING

FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 16 /US 51 TYPICAL SECTIONS	SCALE: NTS	SHEET 2 OF 3 SHEETS	STA. _____ TO STA. _____	F.A.P. RTE. 322	SECTION (14)RS-4 & (43)RS-7	COUNTY CHRISTIAN	TOTAL SHEETS 23	SHEET NO. 7
		DRAWN -	REVISED -			CONTRACT NO. 72F38							
		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -										



TYPICAL SECTION
 US 51
 STA. 62+82.49 TO 69+00.00

- ① EXISTING SUBBASE - 4"
- ② EXISTING PCC PAVEMENT - 8"
- ③ EXISTING 18' PCC PAVEMENT(9-6-9) WITH 8' CONCRETE WIDENING
- ④ EXISTING BITUMINOUS OVERLAY - 6"
- ⑤ EXISTING TIE BAR (SEE STANDARD 420001-02)
- ⑥ EXISTING SUBBASE GRANULAR MATERIAL, TYPE B - 4"
- ⑦ EXISTING PCC BASE COURSE WIDENING - 12"
- ⑧ EXISTING PCC BASE COURSE 12"
- ⑨ EXISTING BITUMINOUS SHOULDERS
- ⑩ EXISTING BITUMINOUS SHOULDERS - 12"
- ⑪ EXISTING AGGREGATE SHOULDERS, TYPE A
- ⑫ EXISTING BITUMINOUS OVERLAY - 7"
- ⑬ EXISTING PCC BASE COURSE WIDENING - 9"

LEGEND

- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL (3/4")
- ⑮ PROPOSED LEVELING BINDER (MACHINE METHOD), N70 (3/4")
- ⑯ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (1 1/2")
- ⑰ PROPOSED AGGREGATE SHOULDERS, TYPE B
- ⑱ PROPOSED PAVEMENT MARKING

FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 16 /US 51 TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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		CHECKED -	REVISED -											
		DATE -	REVISED -											
	PLOT SCALE = 40.0000' / in.													
	PLOT DATE = Mar-28-2012 08:59:15AM													
											CONTRACT NO. 72F38			
											ILLINOIS FED. AID PROJECT			

HOT-MIX ASPHALT SURFACE REMOVAL

LOCATION	PAVEMENT WIDTH (FOOT)	SHLD WIDTH (FOOT)	HMA SURF REM 3/4" (SQ YD)
US 51/IL 16 STA 56+40.23 TO STA 65+68.84	VARIES	4	4,979.54
US 51 STA 63+44.78 TO STA 69+00.00	VARIES	4	2,204.64
IL 16 STA 65+68.84 TO STA 71+49.19	VARIES	4	3,691.65
STA 71+41.19 BK = STA 700+20.29 AH			
STA 700+20.29 TO STA 698+06.58	VARIES	4	855.52
STA 698+06.58 TO STA 672+04.70	23	3	8,383.84
STA 672+04.70 BK = STA 671+93.70 AH			
STA 671+93.70 TO STA 651+50.00	22	3	6,358.18
TOTAL			26,473.4

HMA SURFACE REMOVAL - BUTT JOINT

LOCATION	LENGTH (FOOT)	AREA (SQ YD)
US 51/IL 16 STA 56+40.23	30	106.67
US 51 STA 69+00.00	30	100.00
IL 16 STA 651+50.00	30	96.67
CH 2600 E STA 61+57.49	30	83.33
TOTAL		386.7

TEMPORARY RAMP

LOCATION	LENGTH (FOOT)	AREA (SQ YD)
US 51/IL 16 STA 56+40.23	5	17.78
US 51 STA 69+00.00	5	16.67
IL 16 STA 651+50.00	5	16.11
CH 2600 E STA 61+57.49	5	13.89
TOTAL		64.4

NOTE: ALL SURFACE REMOVAL AND PAVING QUANTITIES FOR CH 2600 E ARE INCLUDED WITH IL 16

PAVING

LOCATION	PAVEMENT WIDTH (FOOT)	LEFT SHOULDER WIDTH (FOOT)	RIGHT SHOULDER WIDTH (FOOT)	PAVT AREA (SQ YD)	SHLD AREA (SQ YD)	BIT MATL PR CT (TON)	AGG PR CT (TON)	LEVELING BINDER (MM) (TON)	HMA SURF COURSE, MIX D (TON)
US 51/IL 16 STA 56+40.23 TO STA 65+68.84	VARIES	4	4	4,154.11	825.43	1.89	9.96	209.14	418.28
US 51 STA 63+44.78 TO STA 69+00.00	VARIES	4	4	1,711.11	493.53	0.84	4.41	92.59	185.19
IL 16 STA 65+68.84 TO STA 71+49.19	VARIES	4	4	3,175.78	515.87	1.40	7.38	155.05	310.10
STA 71+41.19 BK = STA 700+20.29 AH									
STA 700+20.29 TO STA 698+06.58	VARIES	4	4	665.56	189.96	0.33	1.71	35.93	71.86
STA 698+06.58 TO STA 672+04.70	28	3	3	8,094.74	1,734.59	3.74	19.66	412.83	825.66
STA 672+04.70 BK = STA 671+93.70 AH									
STA 671+93.70 TO STA 651+50.00	28	3	3	6,358.18	1,362.47	2.93	15.44	324.27	648.53
TOTAL						11.1	58.6	1,229.8	2,459.6

AGGREGATE SHOULDERS, TYPE B

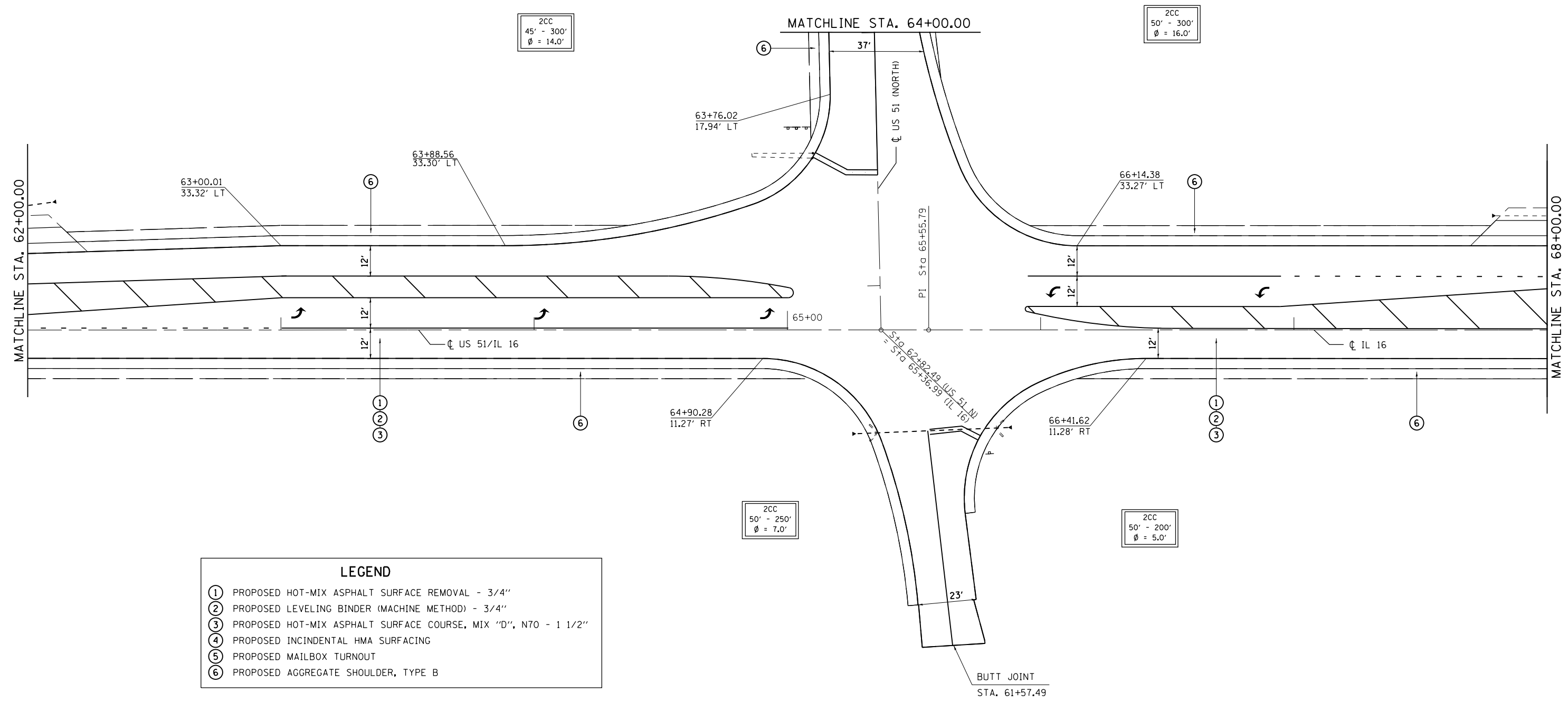
LOCATION	LT SHOULDER WIDTH (FT)	RT SHOULDER WIDTH (FT)	AVERAGE THICKNESS (IN)	AREA (SQ YD)	WEIGHT (TONS)
US 51/IL 16 STA 56+40.23 TO STA 65+68.84	3	3	2	431.07	49.09
US 51 STA 63+44.78 TO STA 69+00.00	3	3	2	145.48	16.57
IL 16 STA 65+68.84 TO STA 71+49.19	3	3	2	285.57	32.52
STA 71+41.19 BK = STA 700+20.29 AH					
STA 700+20.29 TO STA 698+06.58	3	3	2	142.47	16.23
STA 698+06.58 TO STA 672+04.70	3	3	2	1,510.59	172.04
STA 672+04.70 BK = STA 671+93.70 AH					
STA 671+93.70 TO STA 651+50.00	3	3	2	1,324.47	150.84
TOTAL					437.3

PAVEMENT MARKINGS

LOCATION	URETHANE PAVEMENT MARKINGS			PREFORMED PLASTIC INLAID PAVEMENT MARKINGS		RAISED REFLECTIVE PAVEMENT MARKINGS
	LINE 5" (FOOT)	LINE 6" (FOOT)	LINE 12" (FOOT)	LETTERS & SYMBOLS (FOOT)	LINE 24" (FOOT)	(EACH)
US 51/IL 16 STA 56+40.23 TO STA 65+02.32	5,173		369			43
STA 61+33.75 TO STA 63+00.25		42				
STA 63+00.25 TO STA 65+00.32		200		47		5
US 51 STA 63+43.78 TO STA 69+00.00	1,808				27	7
IL 16 STA 65+94.90 TO STA 66+94.90		100		31		3
STA 66+94.90 TO STA 68+37.87		36				
STA 65+93.90 TO STA 71+49.19	3,332		375			28
STA 71+41.19 BK = STA 700+20.29 AH						
STA 700+20.29 TO STA 698+06.58	1,282		34			11
STA 698+06.58 TO STA 672+04.70	2,602					33
STA 672+04.70 BK = STA 671+93.70 AH						
STA 671+93.70 TO STA 651+50.00	3,409					26
CH 2600 E	197				20	
CH 2700 E	60					
TOTAL	17,862	378	778	78	47	154



HMA SHOULDERS SHALL
BE PLACED MONOLITHICALLY
WITH HMA SURFACE.



- LEGEND**
- ① PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL - 3/4"
 - ② PROPOSED LEVELING BINDER (MACHINE METHOD) - 3/4"
 - ③ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 - 1 1/2"
 - ④ PROPOSED INCIDENTAL HMA SURFACING
 - ⑤ PROPOSED MAILBOX TURNOUT
 - ⑥ PROPOSED AGGREGATE SHOULDER, TYPE B

FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -
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	PLOT DATE = Mar-28-2012 08:59:22AM	DATE -	REVISED -

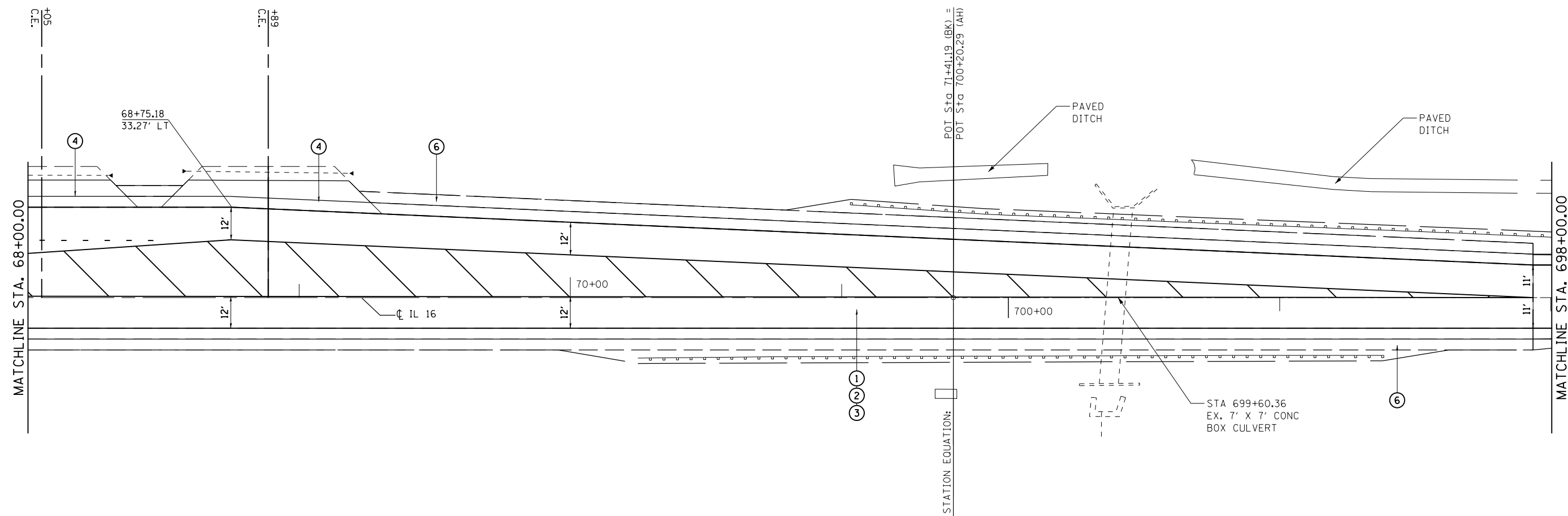
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 51 / IL 16 INTERSECTION
PLAN SHEETS**

SCALE: 20 SHEET 2 OF 3 SHEETS STA. 62+00.00 TO STA. 68+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(14)RS-4 & (43)RS-7	CHRISTIAN	23	12
CONTRACT NO. 72F38				
ILLINOIS FED. AID PROJECT				

HMA SHOULDERS SHALL BE PLACED MONOLITHICALLY WITH HMA SURFACE.



LEGEND	
①	PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL - 3/4"
②	PROPOSED LEVELING BINDER (MACHINE METHOD) - 3/4"
③	PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 - 1 1/2"
④	PROPOSED INCIDENTAL HMA SURFACING
⑤	PROPOSED MAILBOX TURNOUT
⑥	PROPOSED AGGREGATE SHOULDER, TYPE B

FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -
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PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -
PLOT DATE = Mar-28-2012 08:59:23AM		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

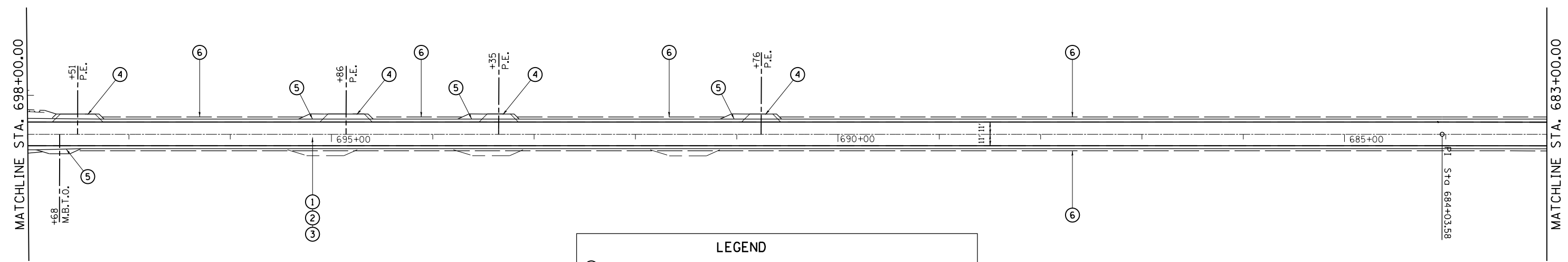
**US 51 /IL 16 INTERSECTION
PLAN SHEETS**

SCALE: 20 SHEET 3 OF 3 SHEETS STA. 68+00.00 TO STA. 698+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(14)RS-4 & (43)RS-7	CHRISTIAN	23	13
CONTRACT NO. 72F38			ILLINOIS FED. AID PROJECT	



HMA SHOULDERS SHALL BE PLACED MONOLITHICALLY WITH HMA SURFACE.

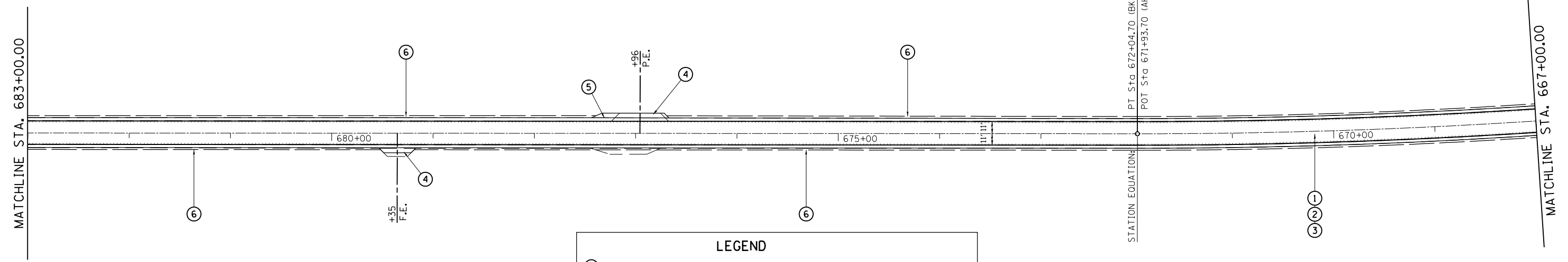


LEGEND

- ① PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL - 3/4"
- ② PROPOSED LEVELING BINDER (MACHINE METHOD) - 3/4"
- ③ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 - 1 1/2"
- ④ PROPOSED INCIDENTAL HMA SURFACING
- ⑤ PROPOSED MAILBOX TURN TURNOUT
- ⑥ PROPOSED AGGREGATE SHOULDER, TYPE B



HMA SHOULDERS SHALL BE PLACED MONOLITHICALLY WITH HMA SURFACE.



LEGEND

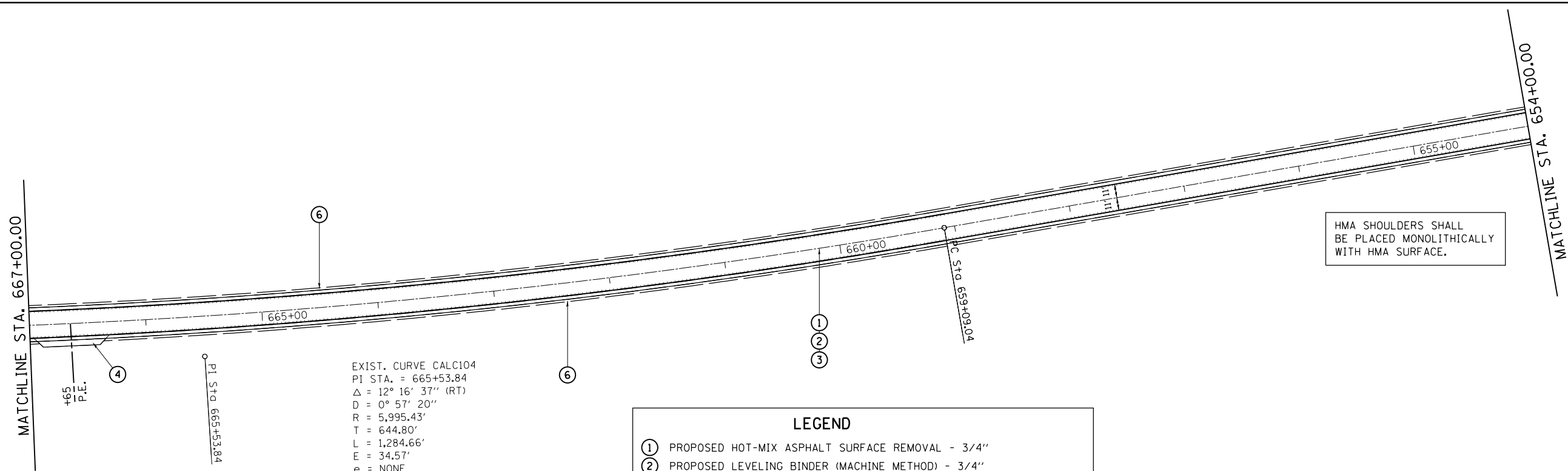
- ① PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL - 3/4"
- ② PROPOSED LEVELING BINDER (MACHINE METHOD) - 3/4"
- ③ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 - 1 1/2"
- ④ PROPOSED INCIDENTAL HMA SURFACING
- ⑤ PROPOSED MAILBOX TURN TURNOUT
- ⑥ PROPOSED AGGREGATE SHOULDER, TYPE B

FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 16	
PLAN SHEETS	
SCALE: 50	SHEET 1 OF 2 SHEETS
STA. 698+00.00 TO STA. 667+00.00	

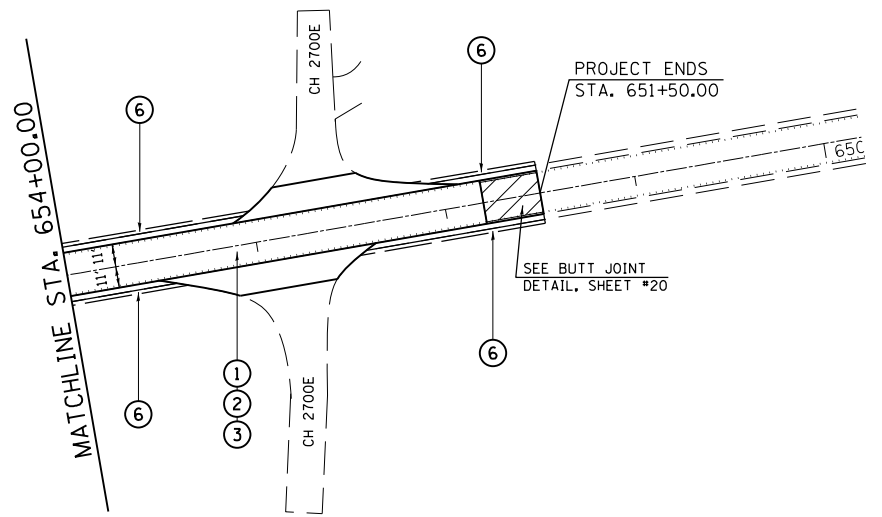
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322	(14)RS-4 & (43)RS-7	CHRISTIAN	23	14
CONTRACT NO. 72F38			ILLINOIS FED. AID PROJECT	



EXIST. CURVE CALC104
 PI STA. = 665+53.84
 $\Delta = 12^\circ 16' 37''$ (RT)
 $D = 0^\circ 57' 20''$
 $R = 5,995.43'$
 $T = 644.80'$
 $L = 1,284.66'$
 $E = 34.57'$
 $e = \text{NONE}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 659+09.04$
 $P.T. \text{ STA.} = 671+93.70$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 659+09.04$
 $P.T. \text{ STA.} = 671+93.70$

LEGEND

- ① PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL - 3/4"
- ② PROPOSED LEVELING BINDER (MACHINE METHOD) - 3/4"
- ③ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 - 1 1/2"
- ④ PROPOSED INCIDENTAL HMA SURFACING
- ⑤ PROPOSED MAILBOX TURN TURNOUT
- ⑥ PROPOSED AGGREGATE SHOULDER, TYPE B



PROJECT ENDS
 STA. 651+50.00

SEE BUTT JOINT
 DETAIL, SHEET #20

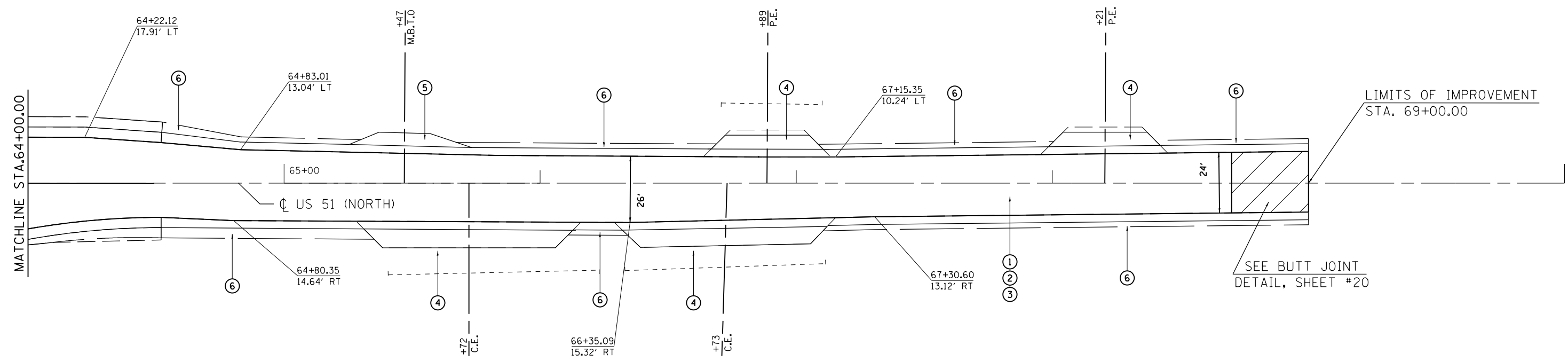
LEGEND

- ① PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL - 3/4"
- ② PROPOSED LEVELING BINDER (MACHINE METHOD) - 3/4"
- ③ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 - 1 1/2"
- ④ PROPOSED INCIDENTAL HMA SURFACING
- ⑤ PROPOSED MAILBOX TURN TURNOUT
- ⑥ PROPOSED AGGREGATE SHOULDER, TYPE B

FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 16 PLAN SHEETS	SCALE: 50	SHEET 2 OF 2 SHEETS	STA. 667+00.00 TO STA. 651+50.00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN -	REVISED -							322	(14)RS-4 & (43)RS-7	CHRISTIAN	23	15	
		CHECKED -	REVISED -												
		DATE -	REVISED -												
												CONTRACT NO. 72F38			
												ILLINOIS FED. AID PROJECT			



HMA SHOULDERS SHALL BE PLACED MONOLITHICALLY WITH HMA SURFACE.



SEE BUTT JOINT DETAIL, SHEET #20

LEGEND	
①	PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL - 3/4"
②	PROPOSED LEVELING BINDER (MACHINE METHOD) - 3/4"
③	PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 - 1 1/2"
④	PROPOSED INCIDENTAL HMA SURFACING
⑤	PROPOSED MAILBOX TURNOUT
⑥	PROPOSED AGGREGATE SHOULDER, TYPE B

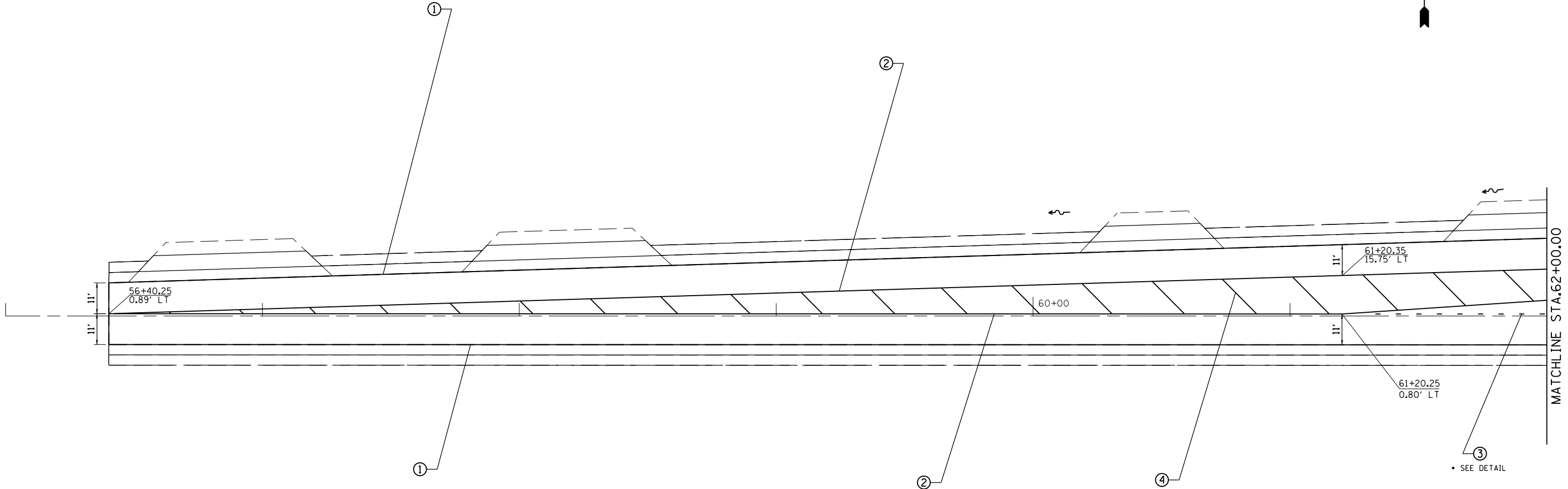
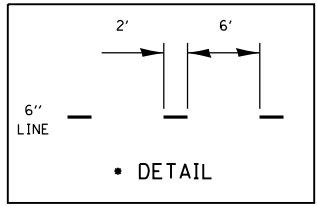
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	PLOT DATE = Mar-28-2012 08:59:30AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 51
PLAN SHEETS**

SCALE: 20 SHEET 1 OF 1 SHEETS STA. 64+00.00 TO STA. 69+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(14)RS-4 & (43)RS-7	CHRISTIAN	23	16
CONTRACT NO. 72F38			ILLINOIS FED. AID PROJECT	



PAVEMENT MARKING LEGEND	
①	URETHANE PAVEMENT MARKING - LINE 5"
②	URETHANE PAVEMENT MARKING - LINE 5" (DOUBLE YELLOW)
③	URETHANE PAVEMENT MARKING - LINE 6"
④	URETHANE PAVEMENT MARKING - LINE 12"
⑤	PRFORMED PLASTIC PAVEMENT MARKING, TYPE B INLAID - 24"
⑥	PRFORMED PLASTIC PAVEMENT MARKING, TYPE B INLAID - LETTERS SYMBOLS

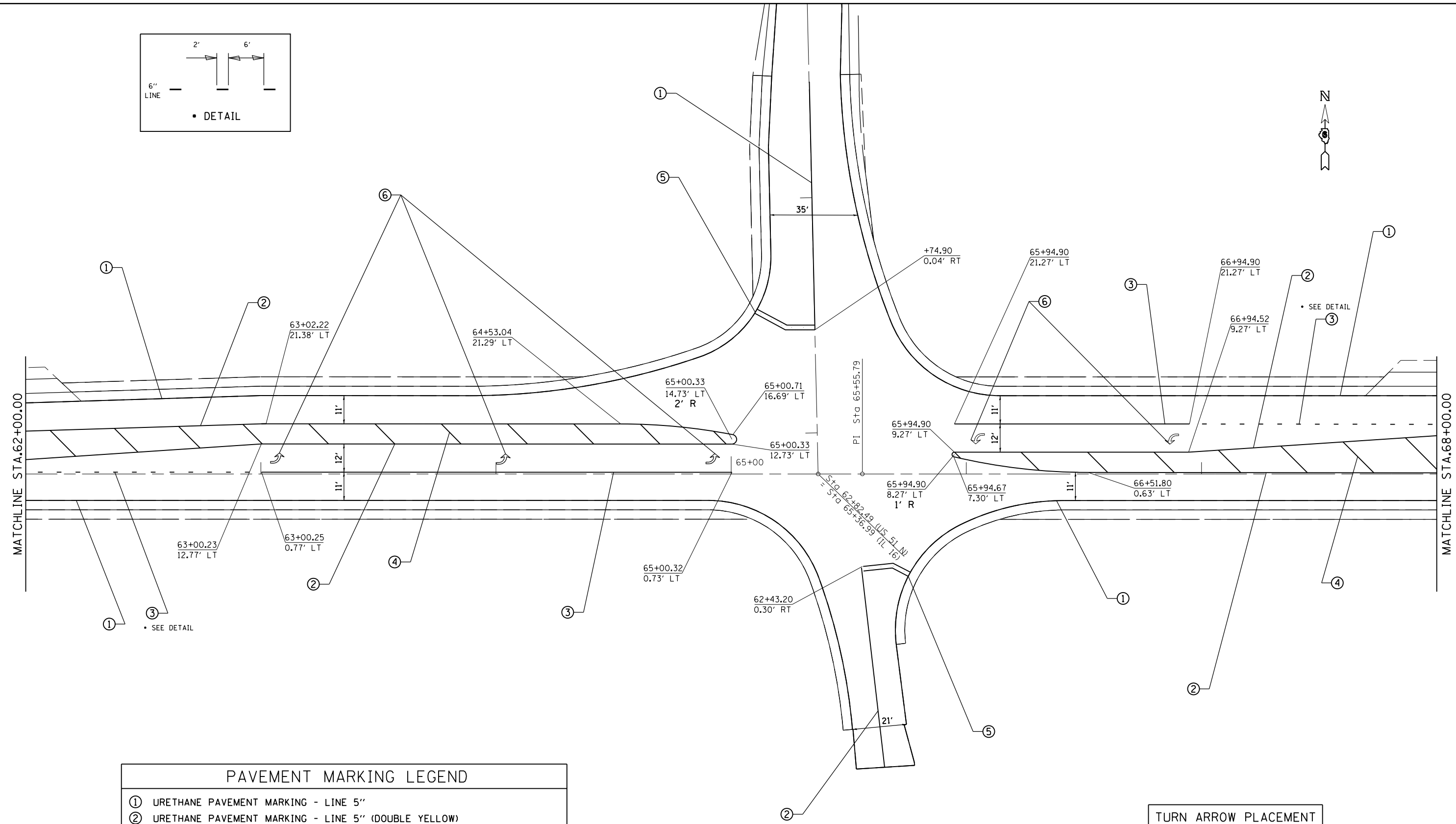
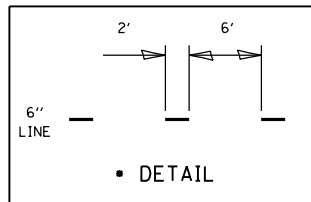
NOTES
 1. DIAGONAL SPACING = 20' O.C.
 2. FOR PLACEMENT OF RRP
 SEE STD 781001

FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING SHEETS			
SCALE: 20	SHEET 1	OF 3 SHEETS	STA. 56+40.23 TO STA. 62+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(14)RS-4 & (43)RS-7	CHRISTIAN	23	17
CONTRACT NO. 72F38			ILLINOIS FED. AID PROJECT	



PAVEMENT MARKING LEGEND	
①	URETHANE PAVEMENT MARKING - LINE 5"
②	URETHANE PAVEMENT MARKING - LINE 5" (DOUBLE YELLOW)
③	URETHANE PAVEMENT MARKING - LINE 6"
④	URETHANE PAVEMENT MARKING - LINE 12"
⑤	PRFORMED PLASTIC PAVEMENT MARKING, TYPE B INLAID - 24"
⑥	PRFORMED PLASTIC PAVEMENT MARKING, TYPE B INLAID - LETTERS SYMBOLS

TURN ARROW PLACEMENT	
EAST BOUND	WEST BOUND
STA. 63+08	STA. 66+04
STA. 64+04	STA. 66+87
STA. 64+93	

NOTES
 1. DIAGONAL SPACING = 20' O.C.
 2. FOR PLACEMENT OF RRRPM
 SEE STD 781001

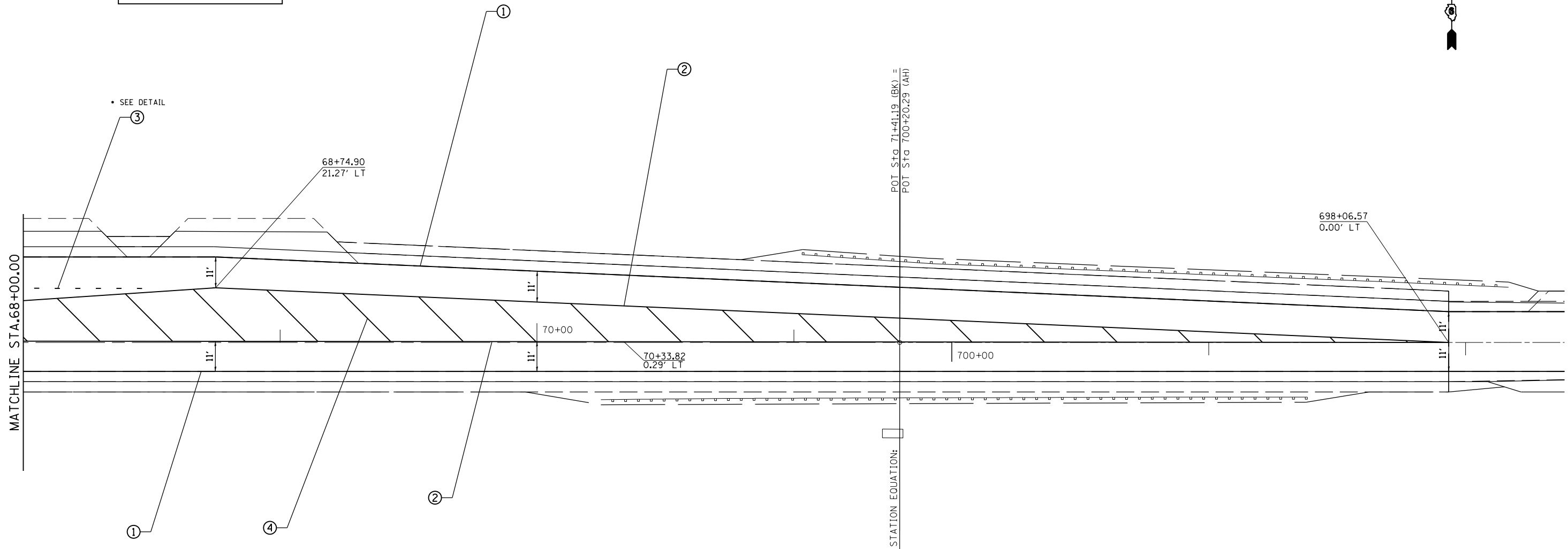
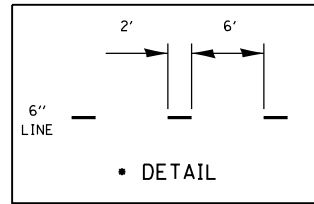
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
 SHEETS

SCALE: 20 SHEET 2 OF 3 SHEETS STA. 62+00.00 TO STA. 68+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(14)RS-4 & (43)RS-7	CHRISTIAN	23	18
CONTRACT NO. 72E38			ILLINOIS FED. AID PROJECT	



• SEE DETAIL

68+74.90
21.27' LT

698+06.57
0.00' LT

70+00

70+33.82
0.29' LT

700+00

POT STA 71+41.19 (BK) =
POT STA 700+20.29 (AH)

STATION EQUATION:

NOTES
1. DIAGONAL SPACING = 20' O.C.
2. FOR PLACEMENT OF RRP
SEE STD 781001

PAVEMENT MARKING LEGEND	
①	URETHANE PAVEMENT MARKING - LINE 5"
②	URETHANE PAVEMENT MARKING - LINE 5" (DOUBLE YELLOW)
③	URETHANE PAVEMENT MARKING - LINE 6"
④	URETHANE PAVEMENT MARKING - LINE 12"
⑤	PRFORMED PLASTIC PAVEMENT MARKING, TYPE B INLAID - 24"
⑥	PRFORMED PLASTIC PAVEMENT MARKING, TYPE B INLAID - LETTERS SYMBOLS

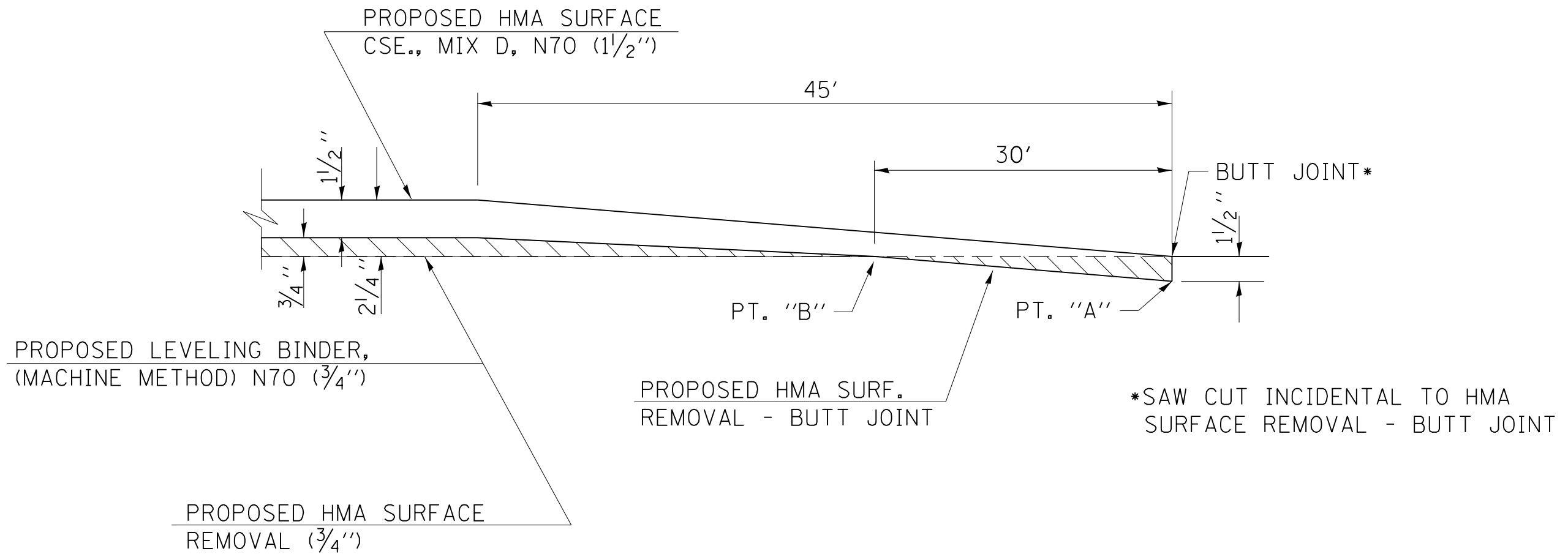
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING
SHEETS**

SCALE: 20 SHEET 3 OF 3 SHEETS STA. 68+00.00 TO STA. 698+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(14)RS-4 & (43)RS-7	CHRISTIAN	23	19
CONTRACT NO. 72F38			ILLINOIS FED. AID PROJECT	



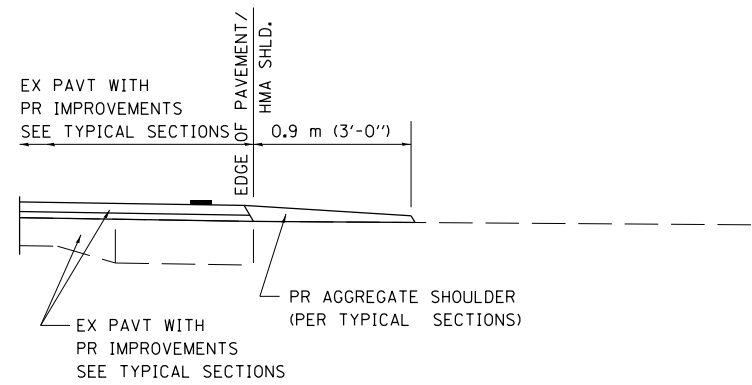
BUTT JOINT DETAIL

PT. "A"

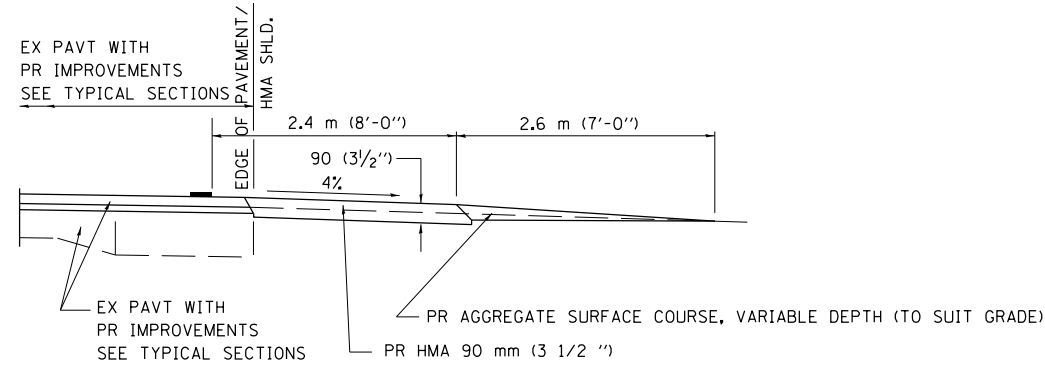
PT. "B"

STA. 56+40.23	TO	STA. 56+70.23 (US 51/IL 16)
STA. 61+57.49	TO	STA. 61+87.49 (CH 2600 E)
STA. 69+00.00	TO	STA. 68+70.00 (US 51N)
STA. 651+50.00	TO	STA. 651+80.00 (IL 16)

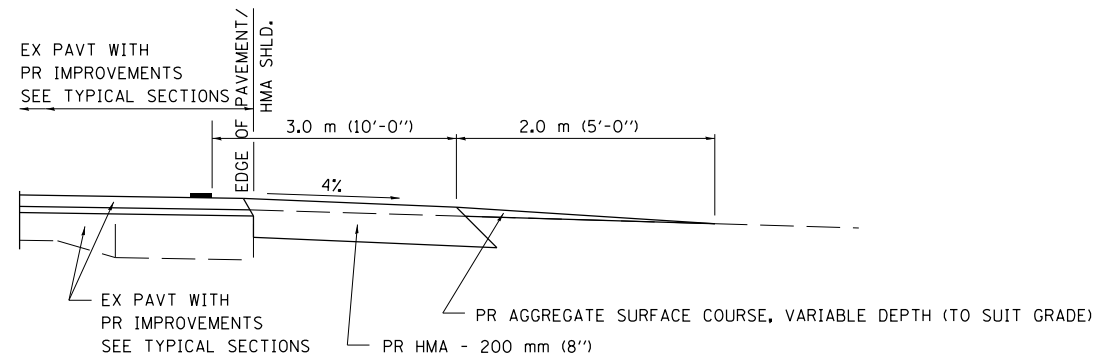
FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
ci:\pw\work\p\dot\sparksgw\0300761\0672F38-sht-details.dgn		DRAWN -	REVISED -		SCALE: NTS	SHEET 1	OF 1	SHEETS	STA.	TO STA.	322	(14)RS-4 & (43)RS-7	CHRISTIAN	23	20
		CHECKED -	REVISED -												
		DATE -	REVISED -												
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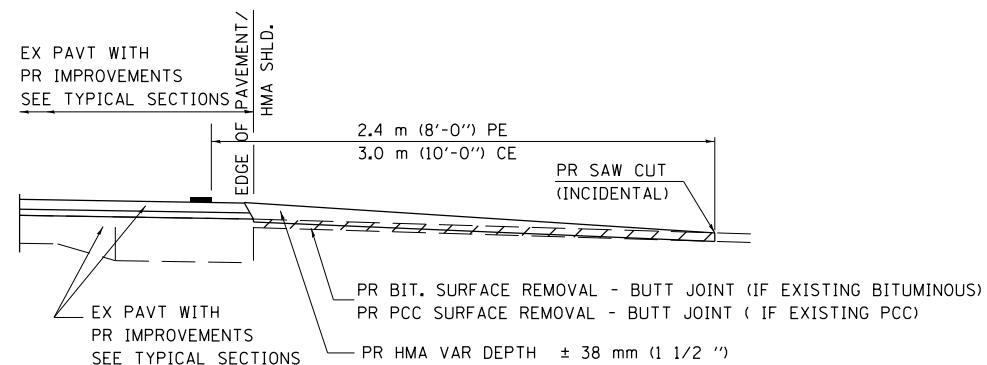
SECTION A-A FOR EX EARTH/ AGGREGATE FE



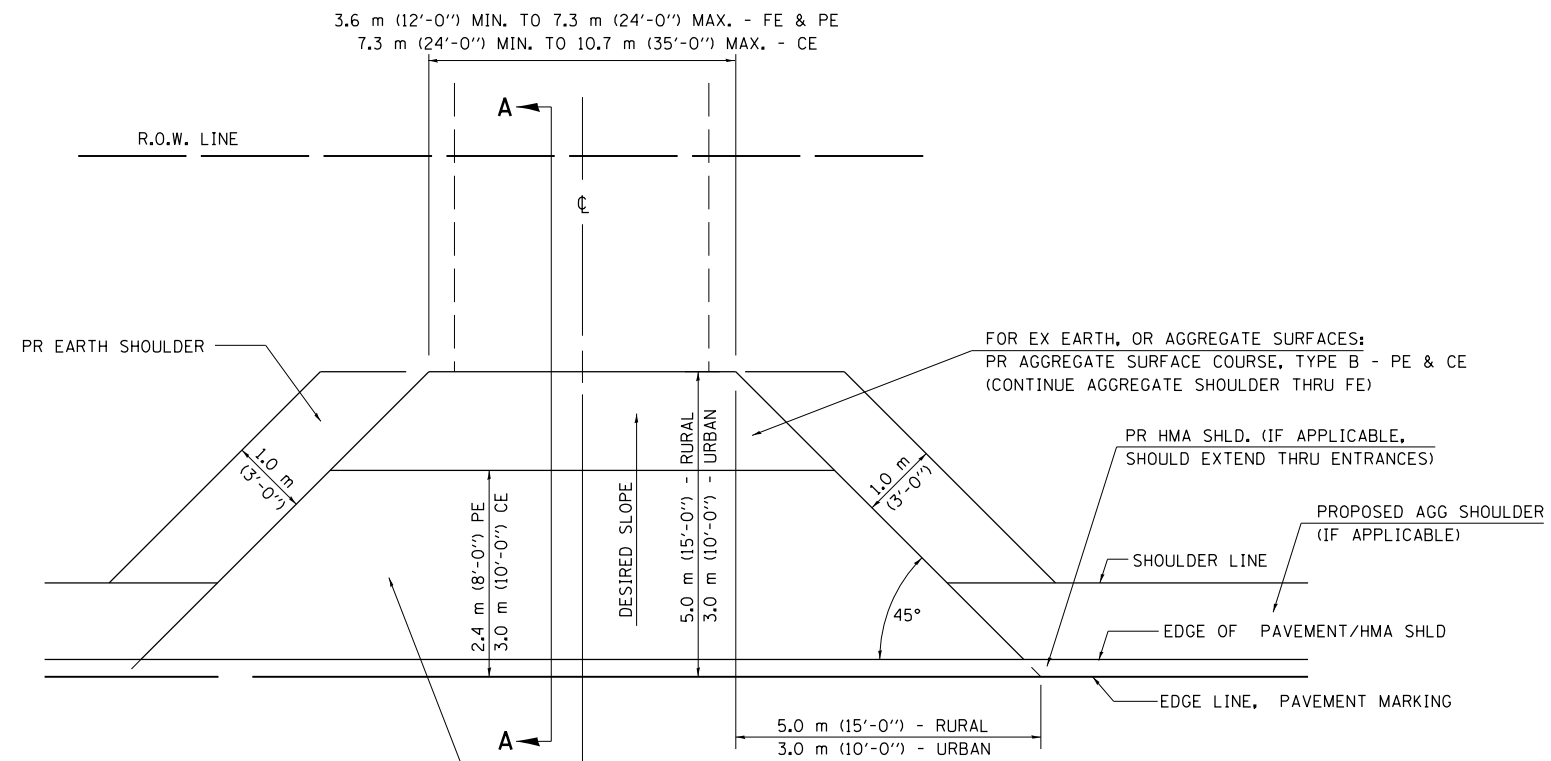
SECTION A-A FOR EX EARTH/AGGREGATE PE



SECTION A-A FOR EX EARTH/AGGREGATE CE & SIDE ROAD



SECTION A-A FOR EX BITUMINOUS/ PC CONCRETE PE, CE & SIDE ROAD



FOR EX EARTH OR AGGREGATE SURFACES:
 PR BIT SURFACE REMOVAL (IF APPLICABLE)
 PR AGGREGATE SHOULDER THRU - FE
 PR BITUMINOUS CONCRETE 90 mm (3 1/2") - PE
 PR BITUMINOUS CONCRETE 200mm (8") - CE

FOR EX BITUMINOUS CONCRETE SURFACES:
 PR BITUMINOUS SURFACE REMOVAL-BUTT JOINT

FOR EX PCC SURFACES:
 PR PCC SURFACE REMOVAL-BUTT JOINT

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

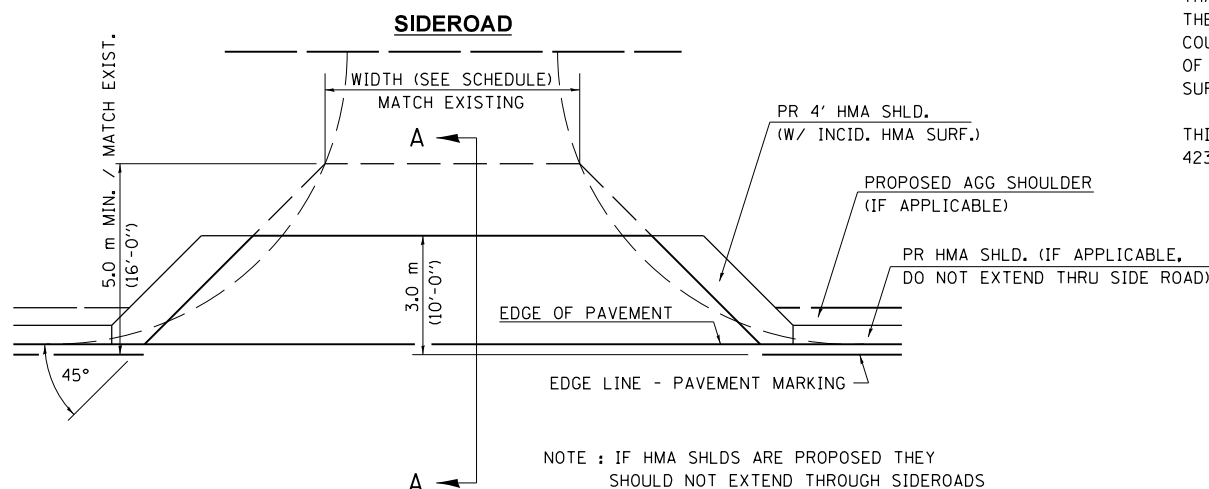
ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

BITUMINOUS CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE BITUMINOUS CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 75 mm (3 INCHES) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF BITUMINOUS BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 50 mm (2 INCHES) SHALL MEET THE REQUIREMENTS OF BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

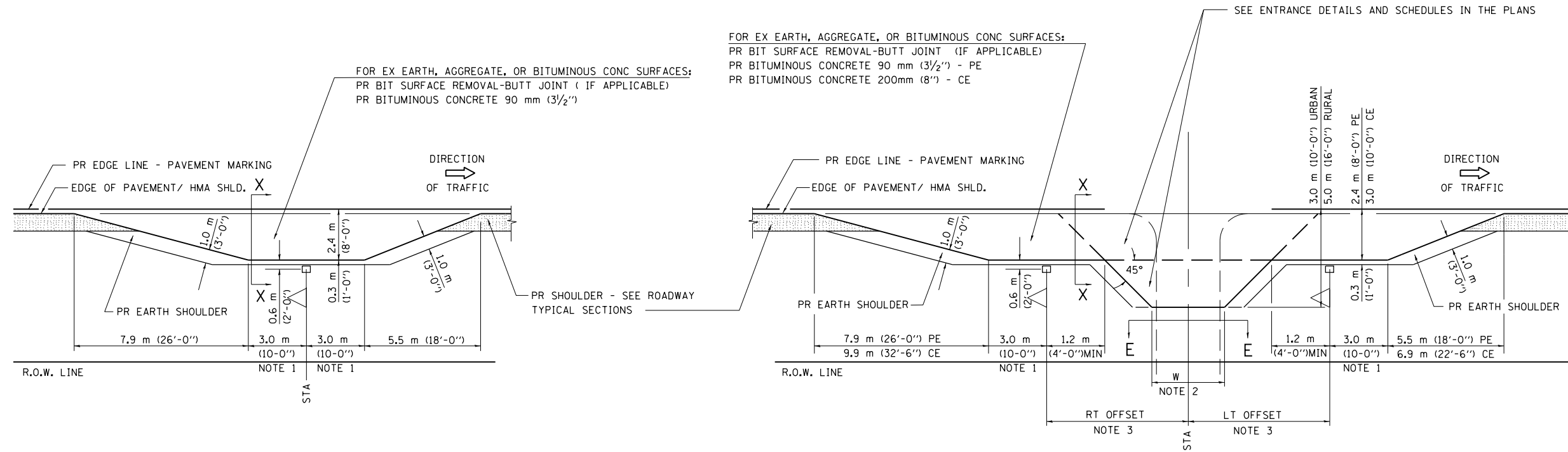
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.



NOTE : IF HMA SHLDS ARE PROPOSED THEY SHOULD NOT EXTEND THROUGH SIDEROADS

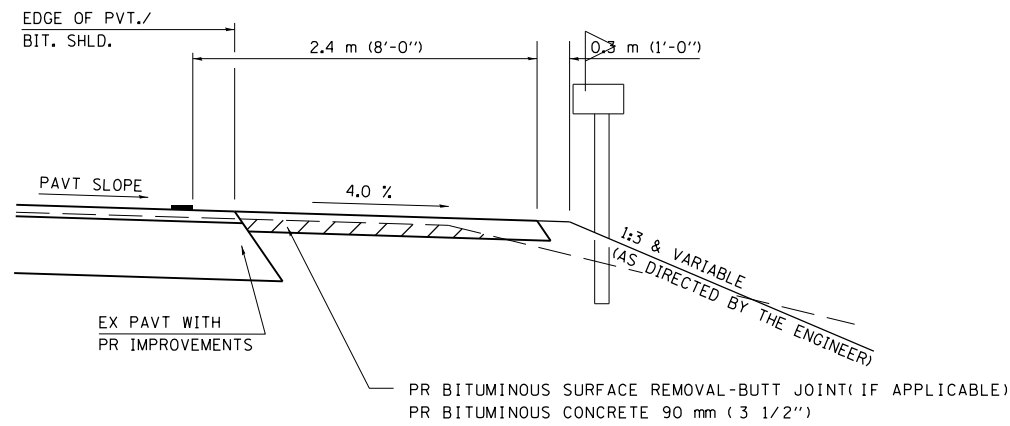
FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIST.6 DETAILS FOR RURAL/URBAN ENT., MAILBOX TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ENT PPP.DGN	38-sht-details.dgn	DRAWN -	REVISED -			322	(14)RS-4 & (43)RS-7	CHRISTIAN	23	21	
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 72F38					
	PLOT DATE = Mar-28-2012 08:59:38AM	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE: NTS	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.			

DETAILS OF MAILBOX TURNOUTS



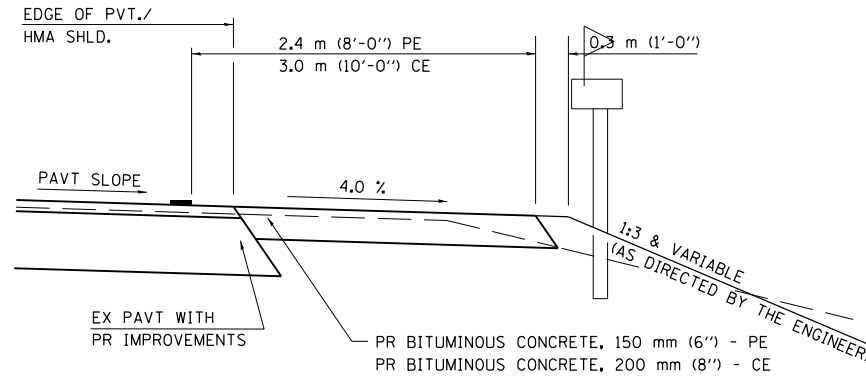
PLAN - MAILBOX TURNOUTS

PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



**SECTION X-X THRU MAILBOX TURNOUT
ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH
EX EARTH, AGGREGATE, OR BITUMINOUS PE & FE**

(DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST.
IF EXISTING, TREAT SAME AS ENTRANCE.)



**SECTION X-X THRU MAILBOX TURNOUT
COMBINED WITH EX BITUMINOUS CONC & PC CONC PE & CE**

(DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST.
IF EXISTING, TREAT SAME AS ENTRANCE.)

- NOTE 1 IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.
- NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.
- NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIST. 6 DETAILS FOR RURAL/URBAN ENT., MAILBOX TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 72F38					
	PLOT DATE = Mar-28-2012 08:59:38AM	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE: NTS	SHEET NO. 2 OF 2 SHEETS		STA. TO STA.			

ENTRANCE IMPROVEMENT SCHEDULE

LOCATION		TYPE OF ENTRANCE	EX MATERIAL TYPE	WIDTH	ENTRANCE AREA	M. B. T. O. AREA	PR HMA THICKNESS	HMA SURFACE REMOVAL BUTT JOINT	PREP OF BASE	AGG. SURFACE COURSE TYPE B	BIT MATL PR CT	AGG PR CT	INCIDENTAL HMA SURFACE
				FOOT	SO YD	SO YD	INCH	SO YD	SO YD	TON	TON	TON	TON
US 51/IL16													
STA 56+88	LT	C. E.	HMA	80	72.22		1.5	72.22			0.03	0.14	6.07
STA 58+19	LT	C. E.	HMA	82	74.44		1.5	74.44			0.03	0.15	6.25
STA 60+48	LT	C. E.	HMA	56	46.67		1.5	46.67			0.02	0.09	3.92
STA 61+93	LT	C. E.	HMA	64	54.44		1.5	54.44			0.02	0.11	4.57
US 51													
STA 65+47	LT	M. B. T. O.	HMA	64		46.67	8	46.67			0.02	0.09	3.92
STA 65+72	RT	C. E.	HMA	87	85.56		1.5	85.56		4.24	0.03	0.17	7.19
STA 66+73	RT	C. E.	HMA	86	86.67		1.5	86.67		4.43	0.03	0.17	7.28
STA 66+89	LT	P. E.	HMA	50	35.11		1.5	35.11			0.01	0.07	2.95
STA 68+21	LT	P. E.	HMA	50	35.11		1.5	35.11			0.01	0.07	2.95
IL 16													
STA 68+05	LT	C. E.	AGG	71	62.22		8		62.22	2.59			27.87
STA 68+89	LT	C. E.	AGG	81	72.22		8		72.22	3.10			32.35
STA 71+41.19 BK = STA 700+20.29 AH													
STA 697+68	LT	M. B. T. O.	HMA	64		46.67	6	46.67			0.02	0.09	3.92
STA 697+51	RT	P. E.	HMA	50	37.33	24	1.5	61.33			0.02	0.12	5.15
STA 694+86	RT	P. E. / M. B. T. O.	AGG	51	38.22	24	3.5		47.78	2.21			12.20
STA 693+35	RT	P. E. / M. B. T. O.	AGG	39	27.56	24	3.5		34.44	1.46			10.11
STA 691+76	RT	P. E. / M. B. T. O.	HMA	39	27.56	24	1.5	51.56			0.02	0.10	4.33
STA 679+35	LT	F. E.	AGG	36	24.89		1.5		31.11	1.27			
STA 676+96	RT	P. E. / M. B. T. O.	AGG	57	43.11	24	3.5		53.89	2.53			13.15
STA 672+04.70 BK = STA 671+93.70 AH													
STA 666+65	LT	P. E. / M. B. T. O.	CONC.	59	47.56	24	3.5	71.56			0.03	0.14	6.01
STA 652+75	LT	CH 2700E	HMA	115	92.22		8	92.22			0.04	0.18	7.75
STA 652+75	RT	CH 2700E	HMA	119	90.56		8	90.56			0.03	0.18	7.61
TOTAL								768.0	301.7	21.8	0.3	1.5	160.2