STONE RIPRAP CLASS B3 WITH FILTER FABRIC - 83 SY

NOTE:
1. G-1 INLET ELEVATIONS AND OFFSETS ARE SHOWN TO THE EDGE OF PAVEMENT. SEE CONTROL POINT LOCATION ON DETAIL SHEET.

STA 57+02.7, 35.0 LT
TY B INL BOX, STD 609006
PIPE DRAINS 12" = 19'
METAL END SECTIONS 12" = 1 EACH

NB IL RTE 6

SB IL RTE 6

STA 60+02.1, 35.0 LT
TY B INL BOX, STD 609006
PIPE DRAINS 12" = 19'
METAL END SECTIONS
12" = 1 EACH

STONE RIPRAP CLASS B3 WITH FILTER FABRIC - 33 SY

STONE RIPRAP CLASS B3 WITH FILTER FABRIC - 33 SY

20 0 20
SCALE IN FEET

STA 60+55.0, 60.2' LT
PRC-FES, 15"
INV=816.34

15" x 19' SS
TY 1, CL A
@ 1.00%

STA 60+55.0, 33.2' LT
INL TY G-1, SPECIAL
RIM=819.84
INV=816.59

STA 60+22.0, 33.0' RT
INL TY G-1, SPECIAL
RIM=820.07
INV=815.87

MATCH LINE STA. 55+50

ALLEN ROAD

MATCH LINE STA. 61+50

STA 56+39.4, 33.0' RT
INL, SPECIAL
RIM=818.29
INV=814.22

12" x 90' SS
TY 1, CL A
@ 0.60%

12" x 102' SS
TY 1, CL A
@ 0.50%

STA 61+25.0, 34.6' RT
INL TY G-1, SPECIAL
RIM=819.16
INV(S)=815.36
INV(E)=815.26

MULTI-USE PATH

MULTI-USE PATH

15" x 40' SS
TY 1, WMO
@ 0.50%

STONE RIPRAP CLASS B3 WITH FILTER FABRIC - 22 SY

STONE RIPRAP CLASS B3 WITH FILTER FABRIC - 22 SY

STA 61+25.0, 83.6' RT
PRC-FES, 15"
INV=815.03

EX ROW

EX ROW

STONE RIPRAP CLASS B3 WITH FILTER FABRIC - 4 SY

LEFT PROFILE GRADE

PROPOSED PROFILE GRADE LINE

EXISTING PROFILE GRADE LINE

INL RT 815.50
EL. 813.50
+1.73%
+4.42%
12" SS @ 0.60%
INL RT 818.02
817.32
INL RT 819.29
-7.58%
-1.85%
12" SS @ 0.50%
+00.00
EL. 815.50
K = 179
850.00' V.C.
RIGHTSIDE DITCH PROFILE

820 815 810 805 800 795

817.50 817.06 | 818.39 818.00 | 819.13 818.81 | 819.86 819.48 | 805.15 820.01 | 798.41 820.40 | 795.76 820.64 | 798.46 820.75 | 804.63 820.72 | 820.90 820.55 | 820.57 820.24 | 820.20 819.79 | 819.57 819.20

55+50 56+00 56+50 57+00 57+50 58+00 58+50 59+00 59+50 60+00 60+50 61+00 61+50

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

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

PRAIRIE ENGINEERS OF ILLINOIS, P.C.

FILE NAME = I:\Jobs\2013\91L1301 Allen Road Peoria\Civil\Microstation\D468683-sht-drain3.dgn	USER NAME = bbeckstrom	DESIGNED - BAB	REVISED -
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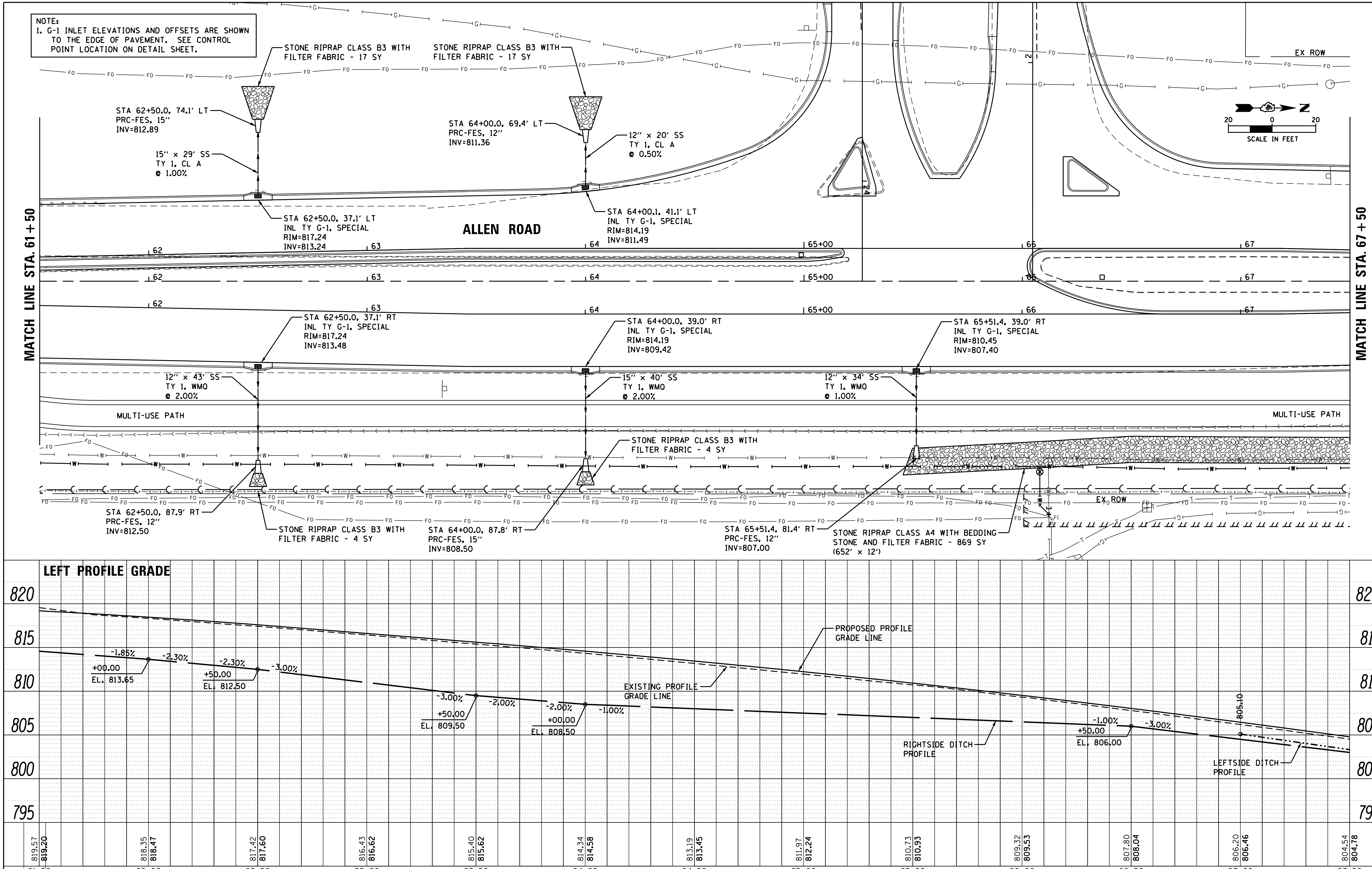
Default	PLOT DATE = 2/18/2014	CHECKED - LDK	REVISED -
		DATE - 1/24/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
STORM SEWER PLAN AND PROFILE – ALLEN ROAD

SCALE: 1" = 20' | SHEET 201 OF 487 SHEETS | STA. 55+50 | TO STA. 61+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	201
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME; NOTE BOOK NO. ___ ; BY / DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTAT'NS CH'KD; NOTE BOOK NO. ___ ; BY / DATE

PRAIRIE ENGINEERS OF ILLINOIS, P.C.

FILE NAME =	USER NAME = bbeckstrom	DESIGNED - BAB	REVISED -
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Default	PLOT DATE = 2/18/2014	DATE - 1/24/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
STORM SEWER PLAN AND PROFILE – ALLEN ROAD

SCALE: 1" = 20' | SHEET 202 OF 487 SHEETS | STA. 61+50 TO STA. 66+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	202
6585		CONTRACT NO. 68683		
		ILLINOIS FED. AID PROJECT		

MATCH LINE STA. 67+50

MATCH LINE STA. 73+50

EX ROW

NOTE:
1. G-1 INLET ELEVATIONS AND OFFSETS ARE SHOWN TO THE EDGE OF PAVEMENT. SEE CONTROL POINT LOCATION ON DETAIL SHEET.

STA 68+05.0, 49.3' LT
INL TY G-1, SPECIAL
RIM=802.30
INV=798.30

15" x 145' SS
TY 1, CL A
@ 3.80%

STA 69+50.0, 40.1' LT
INL TY G-1, SPECIAL
RIM=796.96
INV(S)=792.79
INV(N)=792.60

15" x 200' SS
TY 2, CL A
@ 3.80%

STA 71+50.0, 33.3' LT
INL TY G-1, SPECIAL
RIM=789.57
INV(S)=785.00
INV(N)=784.90

STA 72+00.0, 56.5' LT
PRC-FES, 18"
INV=785.00

STA 72+25.0, 62.1' LT
MH TY A, 5' DIA
TY 1 FR, CLID
W/ FLAT SLAB TOP
RIM=788.00
INV(SE)=783.80
INV(E)=781.64
INV(NW)=781.49

SEE STORM SEWER PLAN AND PROFILE - VAN WINKLE WAY

MATCH LINE STA. 16+75

VAN WINKLE WAY

15" x 16' SS
TY 2, CL A
@ 1.00%

STA 72+24.8, 43.5' LT
INL TY G-1, SPECIAL
RIM=786.58
INV(S)=781.90
INV(W)=781.80

ALLEN ROAD

STA 68+05.0, 1.0' LT
INL TY A, MED INL SPCL
RIM=802.95
INV=798.95

STA 69+50.0, 6.7' LT
INL TY A, MED INL SPCL
RIM=797.81
INV=793.81

15" x 75' SS
TY 2, CL A
@ 4.00%

18" x 20' SS
TY 1, CL A
@ 6.00%

15" x 37' SS
TY 2, CL A @ 5.00%

12" x 42' SS
TY 1, CL A
@ 1.50%

STA 68+05.0, 39.6' RT
INL TY G-1, SPECIAL
RIM=802.42
INV(W)=798.32
INV(N)=798.22

12" x 50' SS
TY 1, CL A
@ 2.00%

STA 69+50.0, 43.3' RT
INL TY G-1, SPECIAL
RIM=796.85
INV(W)=792.81
INV(S)=792.42
INV(N)=792.32

15" x 145' SS
TY 1, CL A
@ 4.00%

15" x 200' SS
TY 2, CL A
@ 4.00%

STA 71+50.0, 45.0' RT
INL TY G-1, SPECIAL
RIM=789.36
INV(S)=784.32
INV(N)=784.22

STA 71+95.0, 45.0' RT
INL TY G-1, SPECIAL
RIM=787.70
INV(S)=782.42
INV(NE)=782.32

STA 72+25.0, 68.5' RT
MH TY A, 5' DIA
TY 1 FR, CLID
W/ FLAT SLAB TOP
RIM=785.10
INV(SE)=781.90
INV(SW)=780.47
INV(N)=780.18

24" x 109' SS
TY 1, WMO
@ 2.00%

MULTI-USE PATH

15" x 45' SS
TY 2, CL A @ 4.00%

MATCH LINE STA. 10+75

SEE STORM SEWER PLAN AND PROFILE - VAN WINKLE WAY

EX ROW

STONE RIPRAP CLASS A4 WITH BEDDING
STONE AND FILTER FABRIC - 869 SY
(652' x 12')

STA 72+00.0, 77.2' RT
PRC-FES, 18"
INV=784.50

18" x 20' SS
TY 1, WMO @ 10.00%

SCALE IN FEET
20 0 20

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

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
ELM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

LEFT PROFILE GRADE

INL RT
+00.00 EL. 801.50
-3.00%
-3.83%
-3.55%
+00.00 EL. 798.00
15" SS @ 4.00%
+50.00 EL. 795.75
INL RT
PROPOSED PROFILE GRADE LINE
EXISTING PROFILE GRADE LINE
RIGHTSIDE DITCH PROFILE
-3.83%
-4.30%
15" SS @ 4.00%
+50.00 EL. 787.15
INL RT
LEFTSIDE DITCH PROFILE
-3.83%
-4.30%
+50.00 EL. 788.42
INL RT
-6.83%
-5.30%
15" SS @ 4.00%

800 795 790 785 780 775

804.54	802.79	800.99	799.05	797.21	795.31	793.39	791.47	789.62	787.74	785.90	784.11	782.25
804.78	803.02	801.17	799.28	797.40	795.52	793.66	791.80	789.94	788.08	786.22	784.36	782.50

67+50 68+00 68+50 69+00 69+50 70+00 70+50 71+00 71+50 72+00 72+50 73+00 73+50

PRAIRIE ENGINEERS OF ILLINOIS, P.C.

FILE NAME = I:\Jobs\2013\91L1301 Allen Road Peoria\Civil\Microstation\D468683-sht-drain5.dgn	USER NAME = bbeckstrom	DESIGNED - BAB	REVISED -
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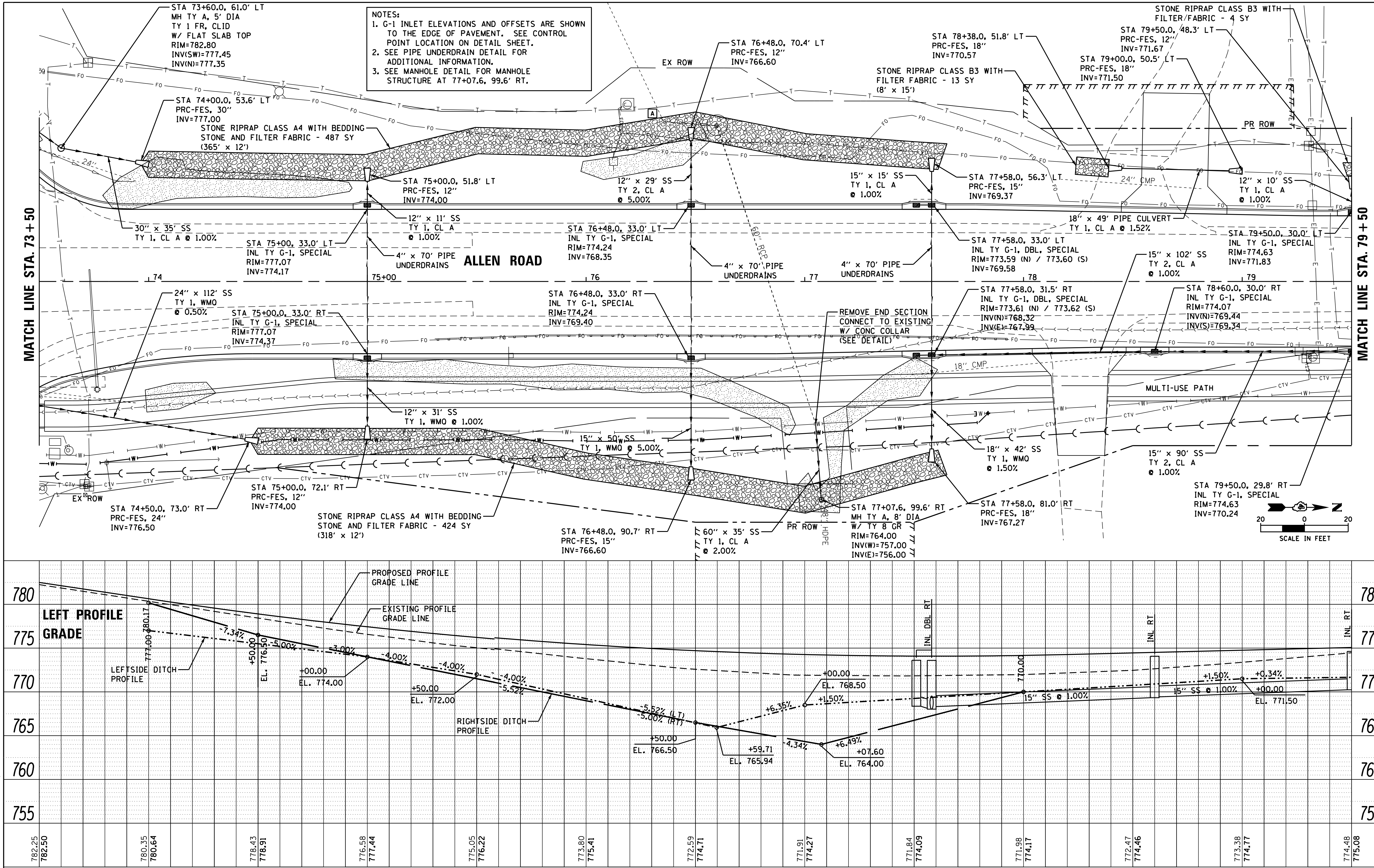
Default	PLOT DATE = 1/27/2014	CHECKED - LDK	REVISED -
		DATE - 1/24/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
STORM SEWER PLAN AND PROFILE – ALLEN ROAD

SCALE: 1" = 20' | SHEET 203 OF 487 SHEETS | STA. 67+50 | TO STA. 73+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	203
6585		CONTRACT NO. 68683		
		ILLINOIS FED. AID PROJECT		



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

PROFILE		BY	DATE
SURVEYED			
PLOTTED			
GRADES CHECKED			
B.M. NOTED			
STRUCTURE NOTAT'NS CH'KD			
NOTE BOOK			
NO.			

PRAIRIE ENGINEERS OF ILLINOIS, P.C.

FILE NAME =	USER NAME = bbeckstrom	DESIGNED - BAB	REVISED -
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Default	PLOT DATE = 1/23/2014	DATE - 1/24/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
STORM SEWER PLAN AND PROFILE – ALLEN ROAD

SCALE: 1" = 20' | SHEET 204 OF 487 SHEETS | STA. 73+50 TO STA. 79+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	204
6585		CONTRACT NO. 68683		
		ILLINOIS FED. AID PROJECT		

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

PROFILE
SURVEYED
PLOTTED
ADJUSTMENT CHECKED
R.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

SCALE IN FEET
20 0 20

MATCH LINE STA. 79+50

MATCH LINE STA. 85+50

PR ROW

EX ROW

ALLEN ROAD

ALTA LANE

MULTI-USE PATH

STA 81+73.0, 30.0' LT
INL TY G-1, SPECIAL
RIM=774.65
INV=770.65

12" x 59' SS
TY 1, CL A
@ 1.00%

STA 81+73.0, 25.3' RT
INL TY G-1, SPECIAL
RIM=774.72
INV(W)=770.06
INV(N)=769.96

15" x 177' SS
TY 1, WMO @ 1.00%

STA 83+50.0, 30.0' LT
INL TY G-1, SPECIAL
RIM=772.57
INV=768.57

12" x 56' SS
TY 1, CL A
@ 1.00%

STA 83+50.0, 21.8' RT
INL TY G-1, SPECIAL
RIM=772.69
INV(S)=768.19
INV(W)=768.01
INV(N)=767.91

15" x 100' SS
TY 2, CL A
@ 1.50%

STA 84+50.0, 19.8' RT
INL-MH, TY G-1,
5' DIA, SPECIAL
RIM=770.71
INV(S)=766.41
INV(W)=765.26
INV(N)=764.03
INV(NE)=753.92

STA 84+50.5, 42.2' LT
INL TY G-1, SPECIAL
RIM=769.92
INV=765.92

12" x 66' SS
TY 1, CL A
@ 1.00%

STA 85+38.5, 18.0' RT
INL TY G-1, SPECIAL
RIM=768.47
INV=764.47

12" x 88' SS
TY 2, CL A
@ 0.50%

15" x 89' SS
TY 3, CL A
@ 6.00%

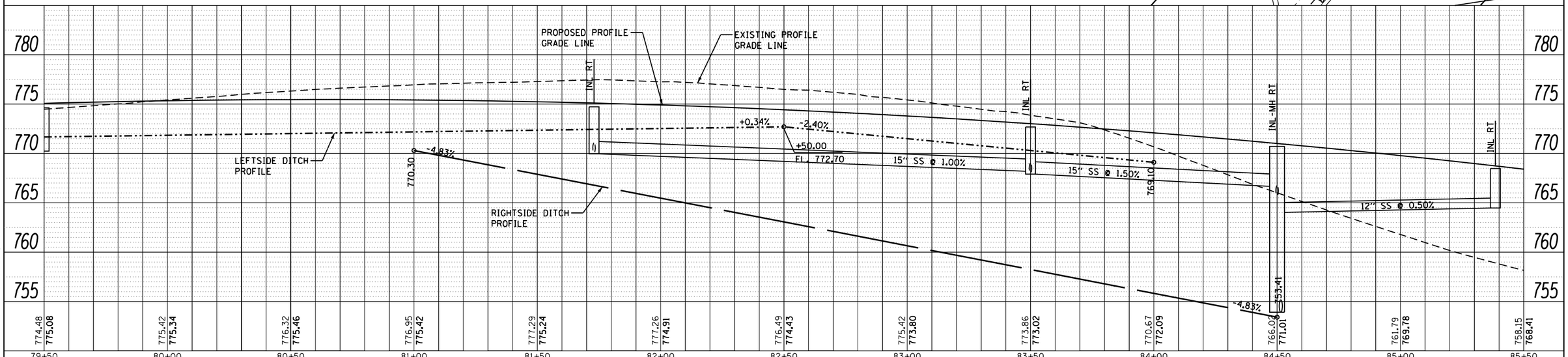
STA 507+25.0, 11.4' RT
INL TY B
W/ SPECIAL FR & GR
RIM=752.55
INV(SW)=748.58
INV(NE)=747.53

STA 507+25.0, 12.0' LT
MH TY A, 4' DIA
W/ SPECIAL FR & GR
RIM=752.55
INV(SW)=747.30
INV(NE)=747.11

18" x 23' SS
TY 1, CL A
@ 1.00%

SEE ALTA LANE PLAN
FOR ADDITIONAL DETAILS

NOTE:
1. G-1 INLET ELEVATIONS AND OFFSETS ARE SHOWN TO THE EDGE OF PAVEMENT. SEE CONTROL POINT LOCATION ON DETAIL SHEET.



PRAIRIE ENGINEERS OF ILLINOIS, P.C.

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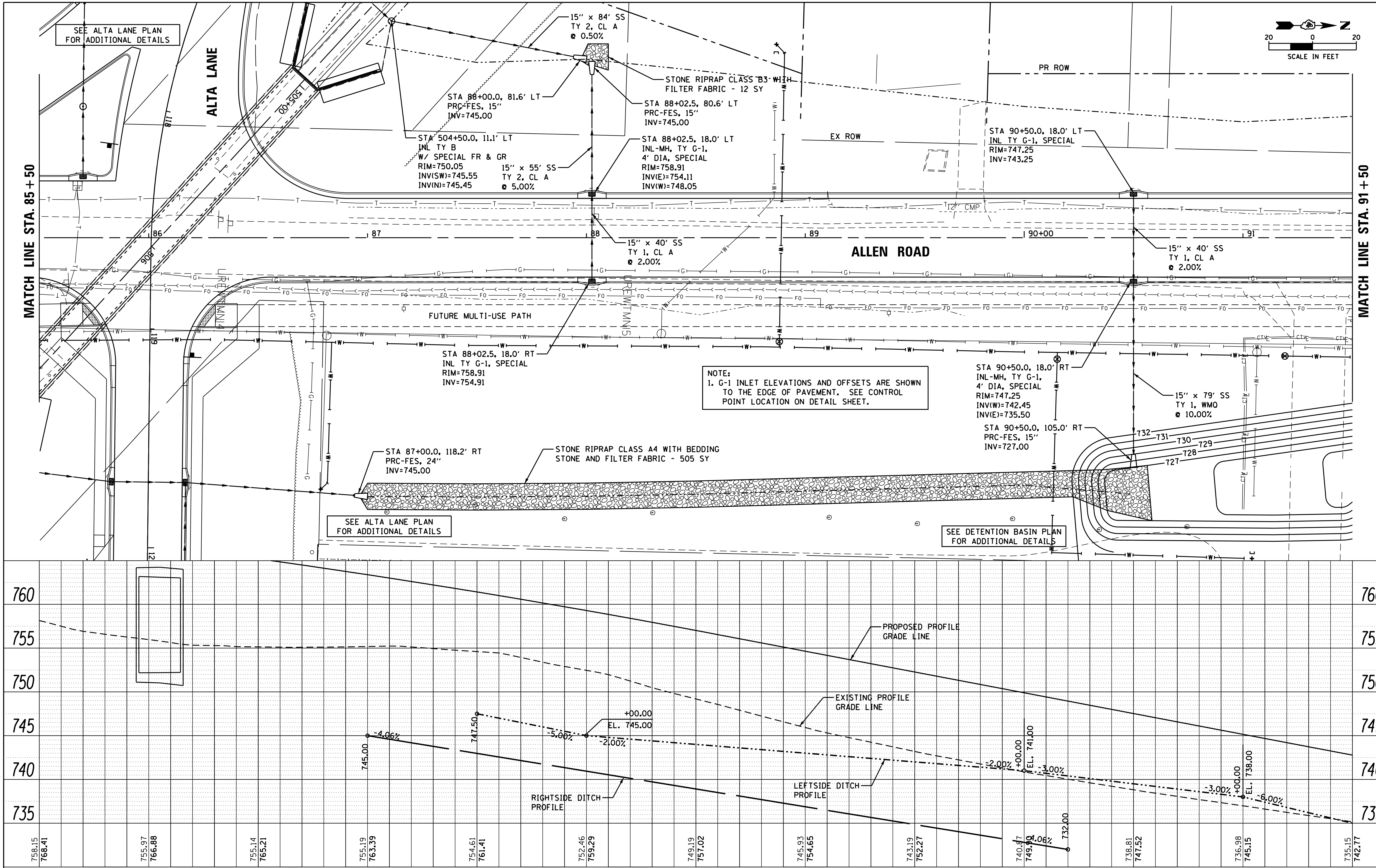
Default	PLOT DATE = 1/23/2014	DATE - 1/24/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
STORM SEWER PLAN AND PROFILE – ALLEN ROAD

SCALE: 1" = 20' | SHEET 205 OF 487 SHEETS | STA. 79+50 | TO STA. 85+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	205
6585		CONTRACT NO. 68683		
		ILLINOIS FED. AID PROJECT		



SEE ALTA LANE PLAN FOR ADDITIONAL DETAILS
ALTA LANE
MATCH LINE STA. 85+50
MATCH LINE STA. 91+50
15" x 84' SS TY 2, CL A @ 0.50%
STONE RIPRAP CLASS B3 WITH FILTER FABRIC - 12 SY
STA 88+00.0, 81.6' LT PRC-FES, 15" INV=745.00
STA 88+02.5, 80.6' LT PRC-FES, 15" INV=745.00
STA 504+50.0, 11.1' LT INL TY B W/ SPECIAL FR & GR RIM=750.05 INV(SW)=745.55 INV(N)=745.45
15" x 55' SS TY 2, CL A @ 5.00%
STA 88+02.5, 18.0' LT INL-MH, TY G-1, 4' DIA, SPECIAL RIM=758.91 INV(E)=754.11 INV(W)=748.05
PR ROW
EX ROW
STA 90+50.0, 18.0' LT INL TY G-1, SPECIAL RIM=747.25 INV=743.25
12" CMP
ALLEN ROAD
15" x 40' SS TY 1, CL A @ 2.00%
15" x 40' SS TY 1, CL A @ 2.00%
FUTURE MULTI-USE PATH
STA 88+02.5, 18.0' RT INL TY G-1, SPECIAL RIM=758.91 INV=754.91
NOTE:
1. G-1 INLET ELEVATIONS AND OFFSETS ARE SHOWN TO THE EDGE OF PAVEMENT. SEE CONTROL POINT LOCATION ON DETAIL SHEET.
STA 90+50.0, 18.0' RT INL-MH, TY G-1, 4' DIA, SPECIAL RIM=747.25 INV(W)=742.45 INV(E)=735.50
15" x 79' SS TY 1, WMO @ 10.00%
STA 90+50.0, 105.0' RT PRC-FES, 15" INV=727.00
STA 87+00.0, 118.2' RT PRC-FES, 24" INV=745.00
STONE RIPRAP CLASS A4 WITH BEDDING STONE AND FILTER FABRIC - 505 SY
SEE ALTA LANE PLAN FOR ADDITIONAL DETAILS
SEE DETENTION BASIN PLAN FOR ADDITIONAL DETAILS
SCALE IN FEET
20 0 20
PROPOSED PROFILE GRADE LINE
EXISTING PROFILE GRADE LINE
LEFTSIDE DITCH PROFILE
RIGHTSIDE DITCH PROFILE
+00.00 EL. 745.00
+00.00 EL. 741.00
+00.00 EL. 738.00
-4.06%
-5.00%
-2.00%
-3.00%
-6.00%
745.00
747.50
732.00
760
755
750
745
740
735
758.15 768.41
755.97 766.88
755.14 765.21
755.19 763.39
754.61 761.41
752.46 759.29
749.19 757.02
745.93 754.65
743.19 752.27
740.87 749.90
738.81 747.52
736.98 745.15
735.15 742.77
85+50
86+00
86+50
87+00
87+50
88+00
88+50
89+00
89+50
90+00
90+50
91+00
91+50

PLAN — NOTE BOOK NO. — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O.W. CHECKED / CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD — BY — DATE

PRAIRIE ENGINEERS OF ILLINOIS, P.C.

FILE NAME =	USER NAME = bbeckstrom	DESIGNED - BAB		REVISED -
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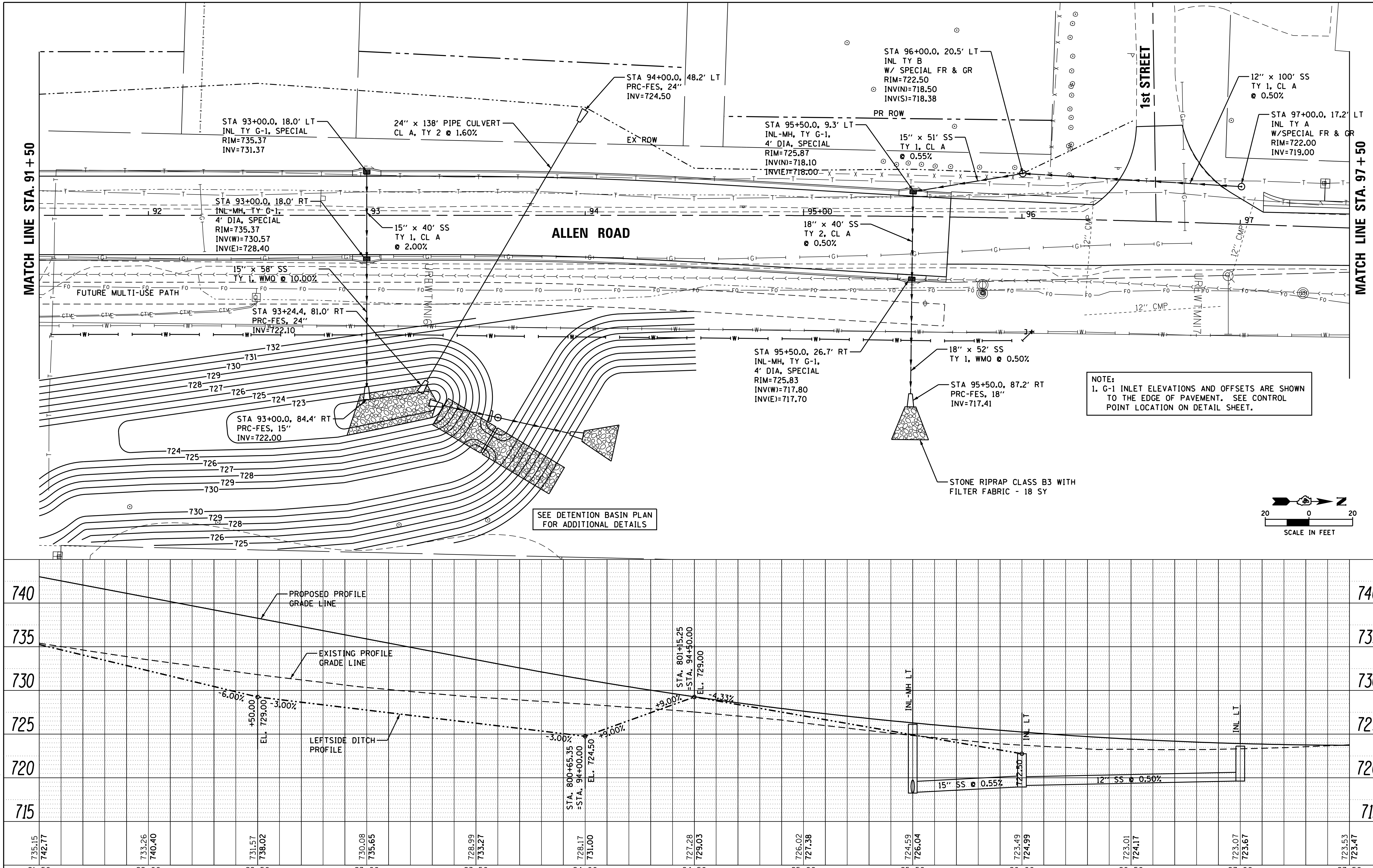
Default	PLOT DATE = 1/23/2014	DATE - 1/24/14		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
STORM SEWER PLAN AND PROFILE – ALLEN ROAD

SCALE: 1" = 20' | SHEET 206 OF 487 SHEETS | STA. 85+50 TO STA. 91+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	206
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



MATCH LINE STA. 91+50
MATCH LINE STA. 97+50
ALLEN ROAD
1st STREET
STA 94+00.0, 48.2' LT
PRC-FES, 24"
INV=724.50
STA 93+00.0, 18.0' LT
INL TY G-1, SPECIAL
RIM=735.37
INV=731.37
24" x 138' PIPE CULVERT
CL A, TY 2 @ 1.60%
EX ROW
PR ROW
STA 96+00.0, 20.5' LT
INL TY B
W/ SPECIAL FR & GR
RIM=722.50
INV(N)=718.50
INV(S)=718.38
12" x 100' SS
TY 1, CL A
@ 0.50%
STA 97+00.0, 17.2' LT
INL TY A
W/SPECIAL FR & GR
RIM=722.00
INV=719.00
STA 95+50.0, 9.3' LT
INL-MH, TY G-1,
4' DIA, SPECIAL
RIM=725.87
INV(N)=718.10
INV(E)=718.00
15" x 51' SS
TY 1, CL A
@ 0.55%
STA 93+00.0, 18.0' RT
INL-MH, TY G-1,
4' DIA, SPECIAL
RIM=735.37
INV(W)=730.57
INV(E)=728.40
15" x 40' SS
TY 1, CL A
@ 2.00%
18" x 40' SS
TY 2, CL A
@ 0.50%
15" x 58' SS
TY 1, WMQ @ 10.00%
FUTURE MULTI-USE PATH
STA 93+24.4, 81.0' RT
PRC-FES, 24"
INV=722.10
STA 95+50.0, 26.7' RT
INL-MH, TY G-1,
4' DIA, SPECIAL
RIM=725.83
INV(W)=717.80
INV(E)=717.70
18" x 52' SS
TY 1, WMQ @ 0.50%
STA 95+50.0, 87.2' RT
PRC-FES, 18"
INV=717.41
NOTE:
1. G-1 INLET ELEVATIONS AND OFFSETS ARE SHOWN TO THE EDGE OF PAVEMENT. SEE CONTROL POINT LOCATION ON DETAIL SHEET.
STA 93+00.0, 84.4' RT
PRC-FES, 15"
INV=722.00
STONE RIPRAP CLASS B3 WITH
FILTER FABRIC - 18 SY
SEE DETENTION BASIN PLAN
FOR ADDITIONAL DETAILS
12" CMP
SCALE IN FEET
PROPOSED PROFILE
GRADE LINE
EXISTING PROFILE
GRADE LINE
LEFTSIDE DITCH
PROFILE
-6.00%
-3.00%
+50.00
EL. 729.00
STA. 800+65.35
=STA. 94+00.00
EL. 724.50
+9.00%
STA. 801+15.25
=STA. 94+50.00
EL. 729.00
-4.33%
INL-MH LT
INL LT
722.50
15" SS @ 0.55%
12" SS @ 0.50%
740
735
730
725
720
715
735.15 742.77
733.26 740.40
731.57 738.02
730.08 735.65
728.99 733.27
728.17 731.00
727.28 729.03
726.02 727.38
724.59 726.04
723.49 724.99
723.01 724.17
723.07 723.67
723.53 723.47
91+50
92+00
92+50
93+00
93+50
94+00
94+50
95+00
95+50
96+00
96+50
97+00
97+50

PLAN — NOTE BOOK NO. — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.O.W. CHECKED, CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHKD — BY — DATE

PRAIRIE ENGINEERS OF ILLINOIS, P.C.

FILE NAME =	USER NAME = bbeckstrom	DESIGNED - BAB	REVISED -	
I:\Jobs\2013\91L1301 Allen Road Peoria\Civil\Microstation\D468683-sht-drain9.dgn		DRAWN - BAB	REVISED -	
	PLOT SCALE = 40.0000 ' / in.	CHECKED - LDK	REVISED -	
Default	PLOT DATE = 1/23/2014	DATE - 1/24/14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
STORM SEWER PLAN AND PROFILE – ALLEN ROAD

SCALE: 1" = 20' | SHEET 207 OF 487 SHEETS | STA. 91+50 TO STA. 97+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	207
6585		CONTRACT NO. 68683		
		ILLINOIS FED. AID PROJECT		

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

MATCH LINE STA. 97+50

98 99 100+00 101 102 103

ALLEN ROAD

20 0 20
SCALE IN FEET

PROFILE
SURVEYED
PLOTTED
ALIGNMENT CHECKED
BAR. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

745 740 735 730 725 720 715 710 705

+91.74 EL. 723.35
723.58

PROPOSED PROFILE GRADE LINE

EXISTING PROFILE GRADE LINE

723.53 723.47 723.58 723.58 722.87 721.93

97+50 98+00 98+50 99+00

PRAIRIE ENGINEERS OF ILLINOIS, P.C.

FILE NAME = I:\Jobs\2013\9IL1301 Allen Road Peoria\Civi\Microstation\D468683-sht-drainl0.dgn	USER NAME = bbeckstrom	DESIGNED - BAB	REVISED -
Default	PLOT SCALE = 40.0000 ' / in.	DRAWN - BAB	REVISED -
	PLOT DATE = 1/23/2014	CHECKED - LDK	REVISED -
		DATE - 1/24/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
STORM SEWER PLAN AND PROFILE – ALLEN ROAD

SCALE: 1" = 20' | SHEET 208 OF 487 SHEETS | STA. 97+50 | TO STA. 99+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	208
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

STA 74+00.0, 53.6' LT
PRC-FES, 30"
INV=777.00

SS MH
RIM=782.07
INV(SW)=776.72
INV(NE)=776.65

SS INL-MH
RIM=782.92
INV(S)=778.92
INV(NE)=778.01

SS INL
RIM=785.67
INV=783.35

STA 16+70.7, 35.6' LT
INL-MH, TY G-1
5' DIA, SPECIAL
RIM=782.65
INV(S)=778.89
INV(NE)=777.78

30" x 33' SS
TY 1, CL A,
@ 1.00%

24" x 6' SS
TY 1, WMO @ 0.70%

CONNECT TO EXISTING
STORM SEWER

STA 74+50.0, 73.0' RT
PRC-FES, 24"
INV=776.50

24" x 112' SS
TY 1, WMO
@ 0.50%

STA 73+33.0, 54.0' RT
MH TY A, 5' DIA
TY 1 FR, CLID
W/ FLAT SLAB TOP
RIM=782.55
INV(S)=778.00
INV(E)=777.39
INV(N)=777.09

18" x 85' SS
TY 1, WMO
@ 0.60%

SS INL
RIM=781.78
INV(E)=778.15
INV(S)=777.96
INV(NE)=777.91 (PLUG)
INV(NW)=777.90

SS INL
RIM=781.77
INV=777.98

15+00

16

17

0+00

11

12

13

VAN WINKLE WAY

18" x 11' SS
TY 1, CL A
@ 1.00%

STA 16+76.3, 32.1' RT
INL TY G-1, SPECIAL
RIM=783.83
INV(SE)=780.16
INV(NW)=779.78

18" x 38' SS
TY 1, CL A
@ 3.50%

24" x 109' SS
TY 1, WMO
@ 2.00%

15" x 3' SS
TY 1, CL A
@ 1.00%

CONNECT TO EXISTING
STORM SEWER

24" RCP

SS INL
RIM=785.44
INV(N)=782.74
INV(S)=781.70

SS MH
RIM=785.72
INV(N)=781.83
INV(E)=780.85

SS INL-MH
RIM=782.92
INV(W)=779.61
INV(SE)=779.67
INV(N)=779.31
RECONSTRUCT W/
TY 1 FR, OLID
INV=779.67

SS MH
RIM=785.95
INV(SE)=782.03
INV(NW)=779.96

SS INL
RIM=781.74
INV=778.63

SS INL
RIM=781.83
INV(E)=778.70
INV(N)=778.41

STA 11+41.1, 24.5' RT
INL TY G-1, DBL, SPECIAL
RIM=782.13 (W) / 782.14 (E)
INV=778.42

STA 72+25.0, 68.5' RT
MH TY A, 5' DIA
TY 1 FR, CLID
W/ FLAT SLAB TOP
RIM=785.10
INV(SE)=781.90
INV(SW)=780.47
INV(N)=780.18

ALLEN ROAD

N

20 0 20

SCALE IN FEET

PRAIRIE ENGINEERS OF ILLINOIS, P.C.

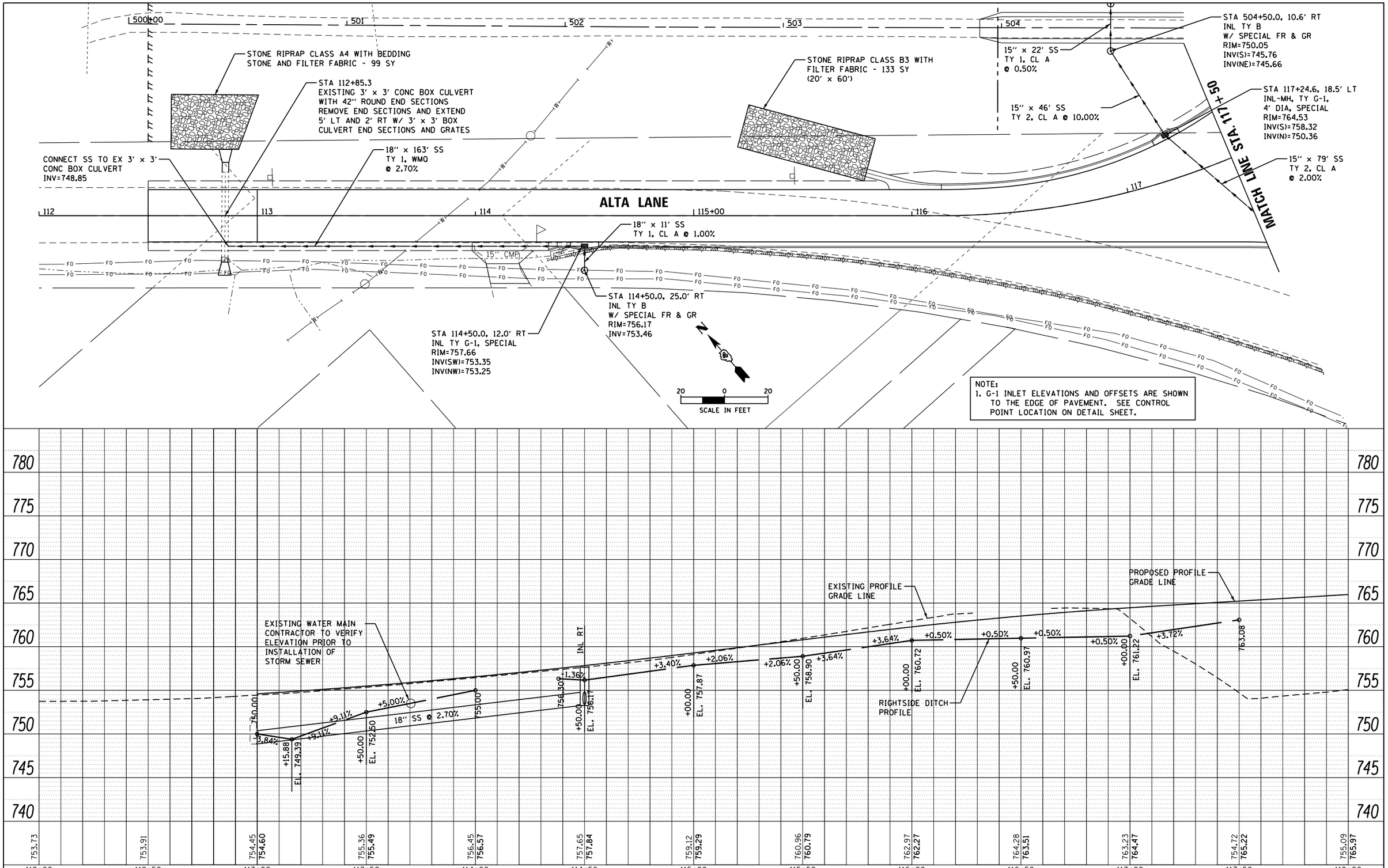
FILE NAME = I:\Jobs\2013\9IL1301 Allen Road Peoria\Civil\Microstation\D468683-sht-vanwinkle-drainage.dgn Default	USER NAME = bbeckstrom	DESIGNED - BAB	REVISED -
	PLOT SCALE = 40.0000 ' / in.	DRAWN - BAB	REVISED -
	PLOT DATE = 1/23/2014	CHECKED - LDK	REVISED -
		DATE - 1/24/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
STORM SEWER PLAN AND PROFILE – VAN WINKLE WAY

SCALE: 1" = 20' | SHEET 209 OF 487 SHEETS | STA. 15+00 TO STA. 13+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	209
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



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

PROFILE
SURVEYED
PLOTTED
CROSSES CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

PRAIRIE ENGINEERS OF ILLINOIS, P.C.

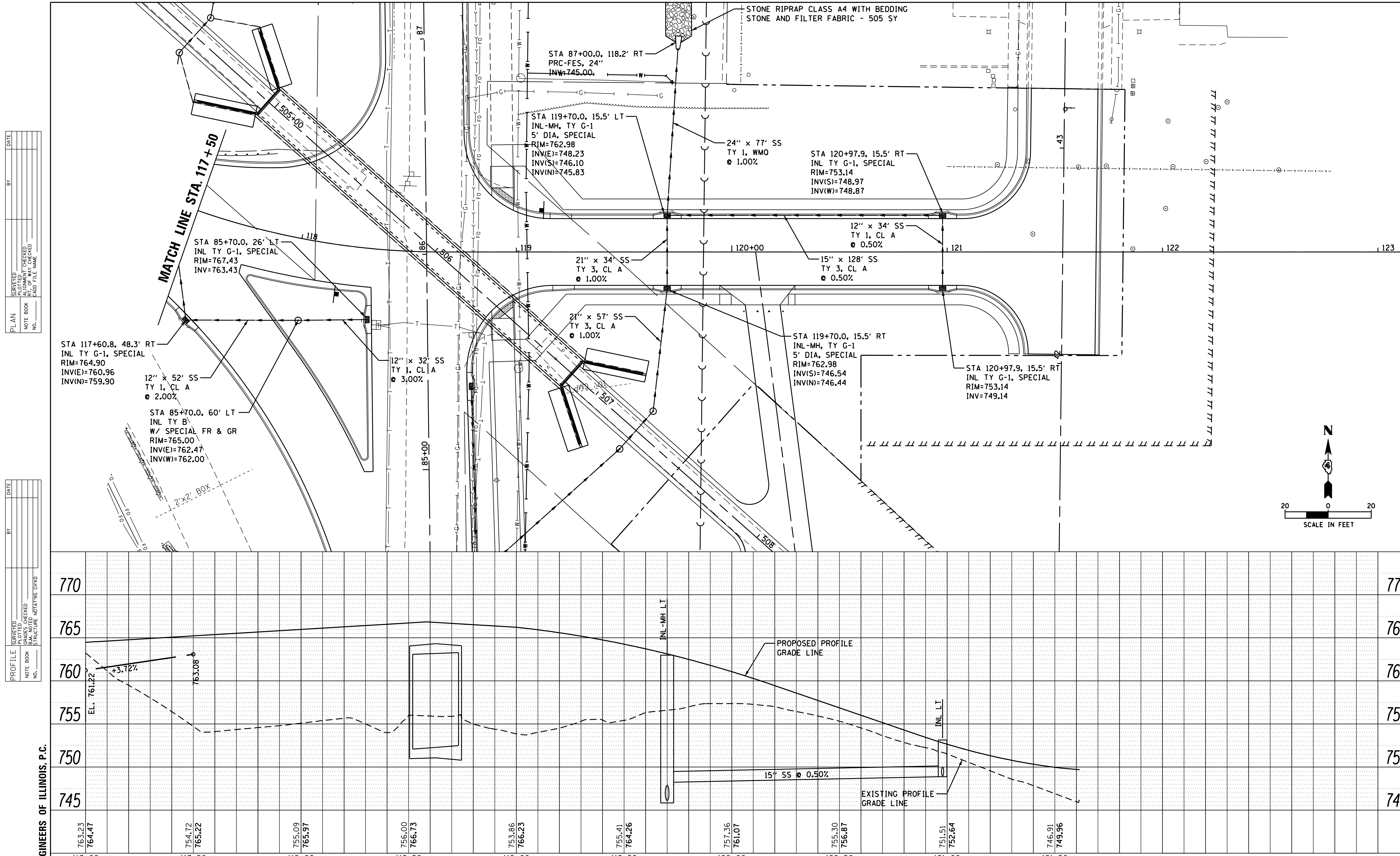
FILE NAME = I:\Jobs\2013\91L1301 Allen Road Peoria\Civi\Microstation\D468683-sht-alta-drainl.dgn	USER NAME = bbeckstrom	DESIGNED - BAB	REVISED -
Default	PLOT SCALE = 40.0000 ' / in.	DRAWN - BAB	REVISED -
	PLOT DATE = 1/23/2014	CHECKED - LDK	REVISED -
		DATE - 1/24/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
STORM SEWER PLAN AND PROFILE – ALTA LANE

SCALE: 1" = 20' | SHEET 210 OF 487 SHEETS | STA. 112+00 | TO STA. 117+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	210
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			


STONE RIPRAP CLASS A4 WITH BEDDING STONE AND FILTER FABRIC - 505 SY
STA 87+00.0, 118.2' RT
PRC-FES, 24"
INV=745.00
STA 119+70.0, 15.5' LT
INL-MH, TY G-1
5' DIA, SPECIAL
RIM=762.98
INV(E)=748.23
INV(S)=746.10
INV(N)=745.83
24" x 77' SS
TY 1, WMO
@ 1.00%
STA 120+97.9, 15.5' RT
INL TY G-1, SPECIAL
RIM=753.14
INV(S)=748.97
INV(W)=748.87
MATCH LINE STA. 117+50
STA 85+70.0, 26' LT
INL TY G-1, SPECIAL
RIM=767.43
INV=763.43
21" x 34' SS
TY 3, CL A
@ 1.00%
12" x 34' SS
TY 1, CL A
@ 0.50%
15" x 128' SS
TY 3, CL A
@ 0.50%
21" x 57' SS
TY 3, CL A
@ 1.00%
STA 119+70.0, 15.5' RT
INL-MH, TY G-1
5' DIA, SPECIAL
RIM=762.98
INV(S)=746.54
INV(N)=746.44
STA 120+97.9, 15.5' RT
INL TY G-1, SPECIAL
RIM=753.14
INV=749.14
STA 117+60.8, 48.3' RT
INL TY G-1, SPECIAL
RIM=764.90
INV(E)=760.96
INV(N)=759.90
12" x 52' SS
TY 1, CL A
@ 2.00%
12" x 32' SS
TY 1, CL A
@ 3.00%
STA 85+70.0, 60' LT
INL TY B
W/ SPECIAL FR & GR
RIM=765.00
INV(E)=762.47
INV(W)=762.00
2'x2' BOX
N
SCALE IN FEET
20 0 20
770
765
760
755
750
745
INL-MH LT
INL LT
PROPOSED PROFILE GRADE LINE
EXISTING PROFILE GRADE LINE
15" SS @ 0.50%
EL. 761.22
+3.72%
763.08
763.23 764.47
754.72 765.22
755.09 765.97
756.00 766.73
753.86 766.23
755.41 764.26
757.36 761.07
755.30 756.87
751.51 752.64
746.91 749.96
117+00
117+50
118+00
118+50
119+00
119+50
120+00
120+50
121+00
121+50
PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R/T OF WAY CHECKED
CADD FILE NAME
PROFILE
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHK'D
BY
DATE

PRAIRIE ENGINEERS OF ILLINOIS, P.C.

FILE NAME = I:\Jobs\2013\91L1301 Allen Road Peoria\Civil\Microstation\D468683-sht-alta-drain2.dgn	USER NAME = bbeckstrom	DESIGNED - BAB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - BAB	REVISED -	
	PLOT SCALE = 40.0000 ' / in.	CHECKED - LDK	REVISED -	
Default	PLOT DATE = 1/23/2014	DATE - 1/24/14	REVISED -	

ALLEN ROAD IMPROVEMENTS
STORM SEWER PLAN AND PROFILE – ALTA LANE

SCALE: 1" = 20' | SHEET 211 OF 487 SHEETS | STA. 117+50 TO STA. 121+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	211
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

	STATION	OFFSET
1.	90+41.1	106.3' RT
2.	90+36.9	111.6' RT
3.	90+38.0	124.6' RT
4.	90+42.9	129.2' RT
5.	90+42.8	138.2' RT
6.	90+91.0	102.2' RT
7.	90+86.7	107.6' RT
8.	90+87.9	122.0' RT
9.	90+92.9	126.6' RT
10.	91+36.5	103.5' RT
11.	91+37.8	118.7' RT
12.	91+40.8	98.1' RT
13.	91+42.9	123.2' RT
14.	91+45.4	138.2' RT
15.	91+70.4	112.8' RT
16.	91+71.2	127.8' RT
17.	91+86.4	99.4' RT
18.	91+86.8	104.0' RT
19.	91+90.6	94.0' RT
20.	91+92.0	108.6' RT
21.	92+01.7	126.1' RT
22.	92+35.8	95.5' RT
23.	92+36.3	99.7' RT
24.	92+40.1	90.0' RT
25.	92+41.3	104.2' RT
26.	92+57.6	124.9' RT
27.	92+85.2	90.7' RT
28.	92+85.7	94.4' RT
29.	92+90.4	97.7' RT
30.	92+89.6	122.4' RT
31.	92+88.5	86.1' RT
32.	93+34.1	113.1' RT

N

20 0 20

SCALE IN FEET

STA 93+24.4, 81.0' RT
PRC-FES, 24"
INV=722.10

12" x 26' SS
TY 2, CL A
@ 1.00%

STA 93+56.8, 91.9' RT
SEEPAGE COLLAR
(SEE DETAIL)

STA 93+00.0, 84.4' RT
PRC-FES, 15"
INV=722.00

2YR HWL = 725.60
25YR HWL = 728.70
100YR HWL = 729.00

STA 90+50.0, 105.0' RT
PRC-FES, 15"
INV=727.00

STA 93+60.0, 92.6' RT
MH TY A, 6' DIA
W/ RESTRICTOR PLATE
W/ TY 1 FR, CLID
RIM=730.00
INV(SW)=720.68
INV(NE)=720.60
(SEE DETAIL)

STONE RIPRAP CLASS B3 WITH
FILTER FABRIC - 18 SY

STA 93+99.0, 101.1' RT
PRC-FES, 12"
INV=720.00

12" x 34' SS
TY 2, CL A @ 1.50%

STONE RIPRAP CLASS A4
WITH BEDDING STONE AND
FILTER FABRIC - 505 SY

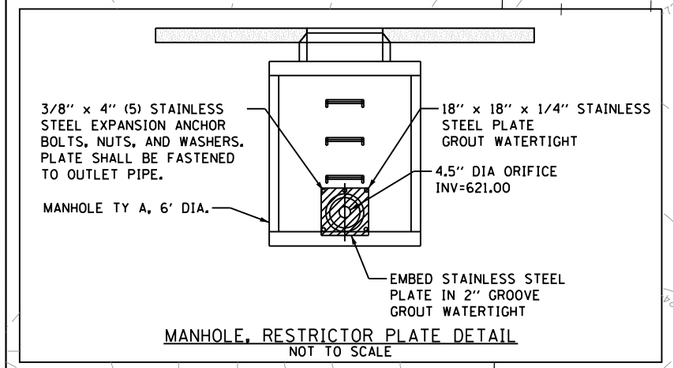
10' BERM (TYP)

STONE RIPRAP CLASS A4
WITH BEDDING STONE AND
FILTER FABRIC - 64 SY

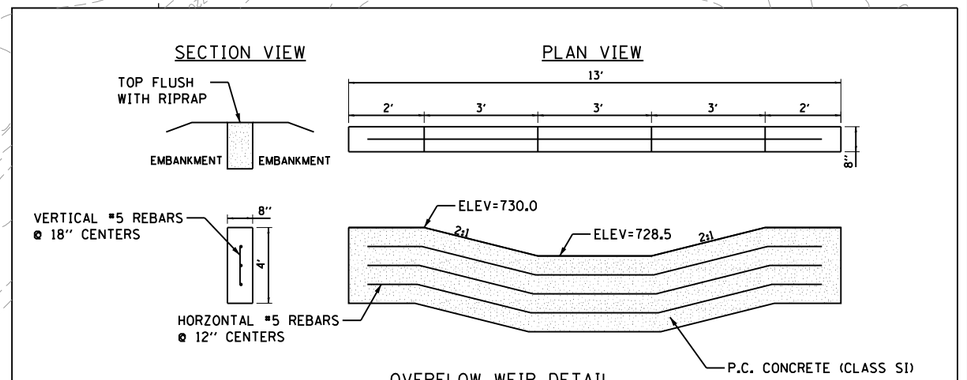
STA 93+28.8, 85.7' RT
PRC-FES, 12"
INV=721.00

STA 93+52.7, 108.7' RT TO
STA 93+59.3, 97.5' RT
OVERFLOW WEIR (SEE DETAIL)

STONE RIPRAP CLASS A4 WITH BEDDING
STONE AND FILTER FABRIC - 95 SY (61' x 14')



MANHOLE, RESTRICTOR PLATE DETAIL
NOT TO SCALE



OVERFLOW WEIR DETAIL
NOT TO SCALE

PRAIRIE ENGINEERS OF ILLINOIS, P.C.

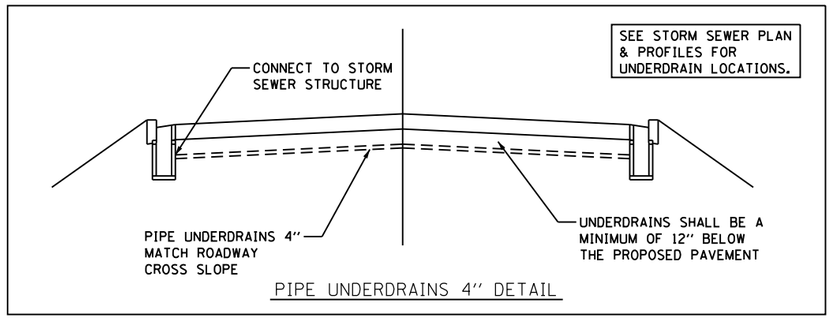
FILE NAME =	USER NAME = bbeckstrom	DESIGNED - BAB	REVISED -
I:\Jobs\2013\91L1301 Allen Road Peoria\Civil\Microstation\D468683-sht-detention basin.dgn		DRAWN - BAB	REVISED -
Default	PLOT SCALE = 40.0000 ' / in.	CHECKED - LDK	REVISED -
	PLOT DATE = 1/23/2014	DATE - 1/24/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

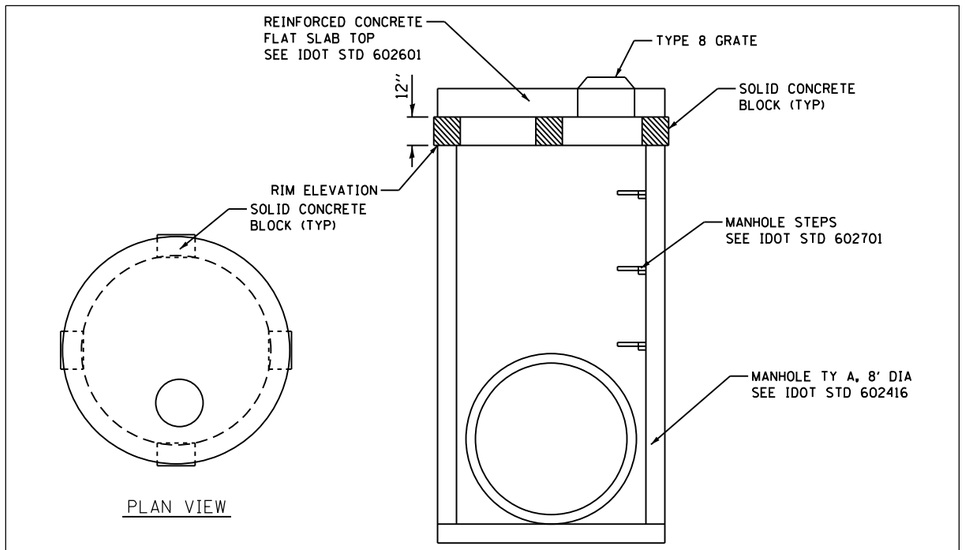
ALLEN ROAD IMPROVEMENTS
DETENTION BASIN DETAIL

SCALE: 1" = 20' | SHEET 212 OF 487 SHEETS | STA. 90+00 TO STA. 95+00

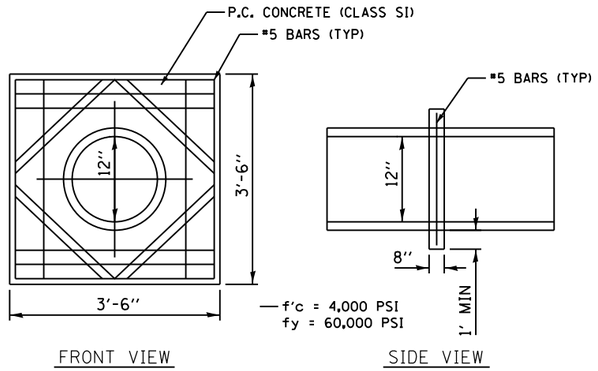
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	212
6585		CONTRACT NO. 68683		
		ILLINOIS FED. AID PROJECT		



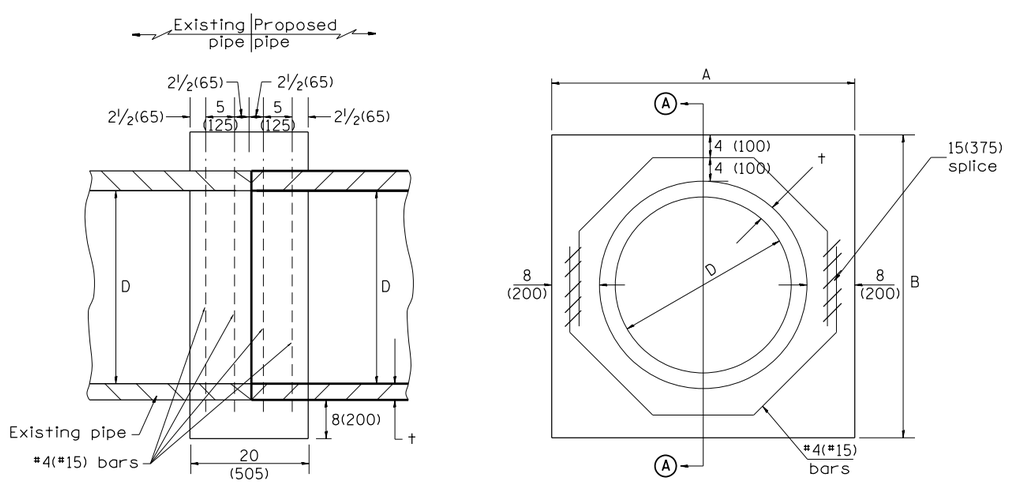
PIPE UNDERDRAINS 4" DETAIL



MANHOLE TY A, 8' DIAMETER DETAIL



SEEPAGE COLLAR DETAIL



				Each Collar				
					Reinforcement Bars			
D in (mm)	t in (mm)	A ft (m)	B ft (m)	CL. SI CONC. cu. yd. (m^3)	G in (mm)	X in (mm)	L ft (m)	Weight lb (kg)
60	6.00	7.33	7.33	1.6	33-1/8	24-1/16	12.29	66

CONCRETE COLLAR DETAIL

PRAIRIE ENGINEERS OF ILLINOIS, P.C.

FILE NAME =	USER NAME = bbeckstrom	DESIGNED - BAB	REVISED -
I:\Jobs\2013\9IL1301 Allen Road Peoria\Civil\Microstation\D468683-sht-drain details.dgn		DRAWN - BAB	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - LDK	REVISED -
Default	PLOT DATE = 1/23/2014	DATE - 1/24/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
STORM SEWER DETAILS

SCALE: 1" = 20' | SHEET 213 OF 487 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	213
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

LEGEND:
- EXISTING R.O.W.
- PROPOSED R.O.W.
- TEMP. EASEMENT
- R.O.W. MKR.

PROP. ALLEN RD.
PI STA. = 95+83.93
Δ = 1° 58′ 45″ (RT)
D = 0° 51′ 07″
R = 6,725.24′
T = 116.17′
L = 232.32′
E = 1.00′
P.C. STA = 94+67.75
P.T. STA = 97+00.08

T 10 N, R 8 E, 4TH P.M.

NORTHEAST QUARTER SECTION 31

SOUTHEAST QUARTER SECTION 30

SOUTHWEST QUARTER SECTION 30

NORTHWEST QUARTER SECTION 31

APT

FND 3/4" PIPE

FND 5/8" IRON PIN

FD PINCH PIN

FND 5/8" REBAR

99-86.16
156.35'

91-59.97
151.13'

91-05.04
149.84'

SEE DETAIL

100-35.31
0.17'

P.J.

P.T.

P.C.

W.LINE OF THE NORTHEAST 1/4 SECTION 31

EXISTING CENTERLINE FAU 6585 (ALLEN ROAD)

PROPOSED CENTERLINE FAU 6585 (ALLEN ROAD)

20+00

NORTH LINE OF SECTION 31

99-85.28
85.14'

CENTERLINE ALTA ROAD

96-12.61
29.50'

95-00.00
46.00'

96-12.81
46.00'

94-00.00
75.00'

BLOCK 1

BLOCK 2

BLOCK 3

BLOCK 4

BLOCK 5

BLOCK 6

BLOCK 7

VACATED ALLEY

SECOND ST.(VAC.)

THIRD ST.

FIRST ST.

BALTIC ST.

BALTIC ST. (VAC.)

ROCK ISLAND TRAIL

TEMPORARY EASEMENT LINES

90-06.28
366.26'

113-59.49
60.08'

112-50.00
60.00'

112-50.00
33.87'

EXISTING CENTERLINE FAU 6584 (IL 174)

PROPOSED CENTERLINE FAU 6584 (IL 174)

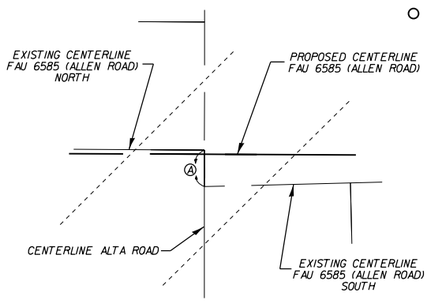
4BEC004
RAIFORD L.COBBS and RUTH M.COBBS

4BEC005
DARREN R.DOUGLAS and ANGELA G.DOUGLAS

4BEC007-TE
SHAMROCK PLASTICS,INC.

4BEC003
VIRGINIA M.BISHOP,AS TRUSTEE

DETAIL N.T.S.



(E) 89-83.52 75.00'	(A) 99-60.32 30.48'
(F) 89-87.76 205.89'	(B) 98-60.32 30.41'
(G) 89-02.64 208.02'	(C) 98-42.32 30.40'
(H) 88-97.48 44.73'	(D) 96-92.35 30.30'

(A) EXISTING CENTERLINE FAU 6585 (ALLEN ROAD) SHIFTS S 89°56′26″ E 3.76′ AT INTERSECTION

FAU 6585 (ALLEN ROAD) STA 100+36.38+ W.ALTA ROAD STA 9+83.01

FAU 6585 (ALLEN ROAD) STA 100+36.40+ E.ALTA ROAD STA 9+86.77

FILE NAME = D468683.dgn	USER NAME = ROBERT STICKELMAIER	DESIGNED - RTS	REVISED -
jobrow.gpk		DRAWN - RTS	REVISED -
	PLOT SCALE = 1' = 100'	CHECKED - PCF	REVISED -
INP02ROW.ipf	PLOT DATE = 5/28/2013	DATE - 5/28/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLAN SHEET

SCALE: 1" = 100' | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584/6585	105(72-7HBI)BY	PEORIA	487	214
R-94-014-11		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

LEGEND:
EXISTING R.O.W.
PROPOSED R.O.W.
TEMP. EASEMENT
R.O.W. MKR.

Ⓐ 114·30.00 33.01'
Ⓑ 114·30.00 40.00'

T 10 N.R 8 E,4TH P.M.

NORTHEAST QUARTER SECTION 31

NORTHWEST QUARTER SECTION 31

FND 5/8 REBAR

PROPOSED CENTERLINE BROMPTON COURT

PI PROPOSED FAU 6584 (IL 174) STA.121+52.65+ PROPOSED BROMPTON CT.STA 2+51.77

4BEC009 HIDDEN CREEK PARTNERS,LLC

4BEC012 DAVID W.HOERR and DANIEL K.HOERR

4BEC001 RUKHMINI S.PANDHARE

4BEC002 EUGENE and SHIRLEY PETERSON

4BEC006

4BEC010 LFH-100,L.L.C.,AN ILLINOIS LIMITED LIABILITY COMPANY

4BEC006 ILLINOIS DEPARTMENT OF CONSERVATION

4BEC011 RUSSELL L.ADAMS and JOY A.ADAMS

4BEC008-TE HERBERT D.WILSON AND DELORES L.WILSON

PROPOSED CENTERLINE FAU 6585 (ALLEN ROAD)

EXISTING CENTERLINE FAU 6585 (ALLEN ROAD)

W.LINE OF THE NE 1/4 SECTION 31

PROPOSED FAU6585 (ALLEN RD.) STA.86+01.5+ PROPOSED FAU 6584 (IL 174) STA 118+58.32

EXISTING CENTERLINE FAU 6584 (IL 174)

PROPOSED CENTERLINE FAU 6584 (IL 174)

TEMPORARY EASEMENT LINES

END RELOCATED ACCESS CONTROL 77+97.07 93.5'

END ACCESS CONTROL 77+97.08 47.58'

MATCHLINE STA 76+00.00

THIRD ST.

VACATED ALLEY

ROCK ISLAND TRAIL

BLOCK 12

BLOCK 7

VAC. BALTIC AVE.

EXIST. CURVE IL174EXCL2	PROP. ALTA LN.	PROP. ALLEN
PI STA. = 119+17.23	PI STA. = 117+45.55	PI STA. = 83+51.60
Δ = 49° 14′ 52″ (RT)	Δ = 41° 51′ 45″ (LT)	Δ = 1° 43′ 52″ (LT)
D = 5° 44′ 24″	D = 16° 36′ 27″	D = 0° 51′ 07″
R = 998.18′	R = 345.00′	R = 6,725.26′
T = 457.50′	T = 131.96′	T = 101.60′
L = 857.97′	L = 252.07′	L = 203.18′
E = 99.85′	E = 24.38′	E = 0.77′
P.C. STA. = 114+59.73	P.C. STA = 116+13.59	P.C. STA = 82+50.00
P.T. STA. = 123+17.70	P.T. STA = 118+65.66	P.T. STA = 84+53.18

FILE NAME = D468683.dgn	USER NAME = ROBERT STICKELMAIER	DESIGNED - RTS	REVISED -
jobrow.gpk		DRAWN - RTS	REVISED -
INP02ROW.ipf	PLOT SCALE = 1' = 100'	CHECKED - PCF	REVISED -
	PLOT DATE = 5/28/2013	DATE - 5/28/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLAN SHEET

SCALE: 1" = 100' | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584/6585	105;(72-7HBIBY	PEORIA	487	215

CONTRACT NO. 68683

ILLINOIS FED. AID PROJECT

LEGEND:
EXISTING R.O.W. ———
PROPOSED R.O.W. —·—·—
TEMP. EASEMENT - - - - -
R.O.W. MKR. ⊠

T 10 N. R 8 E, 4TH P.M.

SOUTHEAST QUARTER OF SECTION 31

NORTHEAST QUARTER OF SECTION 31

NORTHWEST QUARTER OF SECTION 31

SOUTHWEST QUARTER OF SECTION 31

END EXISTING ACCESS CONTROL
73+28.87
327.02'

SOUTHEAST LINE OF THE NORTHEAST QUARTER OF SECTION 31

END EXISTING ACCESS CONTROL
72+68.49
327.04'

PROPOSED CENTERLINE OF SUDS PARKWAY

4BEC013-TE
COMMERCE BANK NATIONAL ASSOCIATION

4BEC014-TE
METHODIST SERVICES INC. an ILLINOIS NOT-FOR-PROFIT CORPORATION

4BEC012
DAVID W.HOERR and DANIEL K.HOERR

LOT 1

LOT 2

LOT 3

73+26.75
162.92'

73+56.95
97.02'

73+72.05
97.02'

74+58.09
85.00'

72+63.49
156.84'

72+45.42
113.00'

72+38.85
97.07'

66+00.60
113.00'

66+00.60
97.3151

PROPOSED CENTERLINE FAU 6585 (ALLEN ROAD)

EXISTING CENTERLINE FAU 6585 (ALLEN ROAD)

MATCHLINE STA 76+00.00

PI

130

135

140

72+69.51
2.91'
END EXISTING ACCESS CONTROL

W.LINE OF THE NE 1/4 SECTION 31

WEST LINE OF THE SE 1/4 SECTION 31

16+46.91
31.90'

75+33.79
77.74'

73+71.76
102.89'

75+95.38
77.67'
END PROPOSED ACCESS CONTROL

73+21.60
200.70'

72+15.00
102.92'

15+85.00
80.00'

15+85.00
32.17'

67+02.14
102.72'

POLE

4BEC015-TE
CHARLES M.DAILEY, as TRUSTEE of a TRUST AGREEMENT DATED THE 23rd DAY OF DECEMBER 1999

73+19.53
335.49'

14+15.00
27.09'
END PROPOSED ACCESS CONTROL

14+15.00
32.91'

72+59.53
334.83'
END PROPOSED ACCESS CONTROL

SOUTH LINE OF THE NORTH HALF OF SECTION 31

EXISTING CENTERLINE OF VAN WINKLE WAY

POT Sta 1+50.00
POT Sta 22+92.12

POT Sta 3+00.00
POT Sta 21+42.12

CENTERLINE OF RAMP C

CENTERLINE OF RAMP D

FAU 6584 (ALLEN ROAD) STA.72+95.56+
SUDS PARKWAY STA.10+02.45

FAU 6584 (ALLEN ROAD) STA.66+04.67+
RAMP D STA.01+00.00

FAU 6584 (ALLEN ROAD) STA.65+26.67+
RAMP C 24+45.83

FILE NAME = D468683.dgn	USER NAME = ROBERT STICKELMAIER	DESIGNED - RTS	REVISED -
jobrow.gpk		DRAWN - RTS	REVISED -
	PLOT SCALE = 1" = 100'	CHECKED - PCF	REVISED -
INP02ROW.ipf	PLOT DATE = 5/28/2013	DATE - 5/28/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLAN SHEET

SCALE: 1" = 100' | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584/6585	105(172-7HB)BY	PEORIA	487	216
		CONTRACT NO. 68683		
		ILLINOIS FED. AID PROJECT		

LEGEND:
EXISTING R.O.W. ——— ——— ———
PROPOSED R.O.W. ——— · ——— · ———
TEMP. EASEMENT ▪▪▪▪▪▪▪▪▪▪▪▪
R.O.W. MKR. ☒

T 10 N.R 8 E,4TH P.M.

SOUTHEAST QUARTER OF SECTION 31

LOT 3

60-97.09
97.15'

56-51.18
199.56'

55-97.15
97.09'

52-92.08
99.87'

PROPOSED CENTERLINE FAU 6585 (ALLEN ROAD)

EXISTING CENTERLINE FAU 6585 (ALLEN ROAD)

EAST LINE OF THE SOUTHWEST 1/4 OF SECTION 31

PI Sta 55+48.17

PT Sta 56+56.79

PRC Sta 54+39.55

PI Sta 53+33.45

PC Sta 52+27.34

POT Sta 0+00.00

MATCHLINE STA 50+00.00

50-42.85
100.00'

930

EXISTING CENTERLINE OF IL ROUTE 6

BASELINE OF RAMP A

BASELINE OF RAMP B

PC Sta 4+37.59

FAU 6584 (ALLEN ROAD) STA.58+51.79+
IL RT.6 STA.929+00.23

FAU 6584 (ALLEN ROAD) STA.52+06.03+
RAMP A STA.0+00.00

FAU 6584 (ALLEN ROAD) STA.51+28.03+
RAMP B STA.24+84.15

SOUTHWEST QUARTER OF SECTION 31

PROP. ALLEN-2
PI STA. = 55+48.17
Δ = 0° 49′ 47″ (LT)
D = 0° 22′ 55″
R = 15,000.34′
T = 108.62′
L = 217.24′
E = 0.39′
P.C. STA = 54+39.55
P.T. STA = 56+56.79

PROP. ALLEN-1
PI STA. = 53+33.45
Δ = 0° 48′ 38″ (RT)
D = 0° 22′ 55″
R = 14,999.53′
T = 106.11′
L = 212.21′
E = 0.38′
P.C. STA = 52+27.34
P.T. STA = 54+39.55

PROP. CURVE RAMPB1
PI STA. = 4+64.48
Δ = 50° 21′ 35″ (LT)
D = 12° 00′ 00″
R = 477.47′
T = 224.48′
L = 419.67′
E = 50.14′
P.C. STA = 2+40.00
P.T. STA = 6+59.67

PROP. CURVE RAMPA1
PI STA. = 11+86.23
Δ = 142° 25′ 42″ (RT)
D = 22° 29′ 59″
R = 254.65′
T = 748.64′
L = 633.02′
E = 536.11′
P.C. STA = 4+37.59
P.T. STA = 10+70.61

FILE NAME = D468683.dgn	USER NAME = ROBERT STICKELMAIER	DESIGNED - RTS	REVISED -
jobrow.gpk		DRAWN - RTS	REVISED -
	PLOT SCALE = 1" = 100'	CHECKED - PCF	REVISED -
INP02ROW.ipf	PLOT DATE = 5/28/2013	DATE - 5/28/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLAN SHEET

SCALE: 1" = 100' | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584/6585	105.(72-7HB)BY	PEORIA	487	217
		CONTRACT NO. 68683		
		ILLINOIS FED. AID PROJECT		

LEGEND:

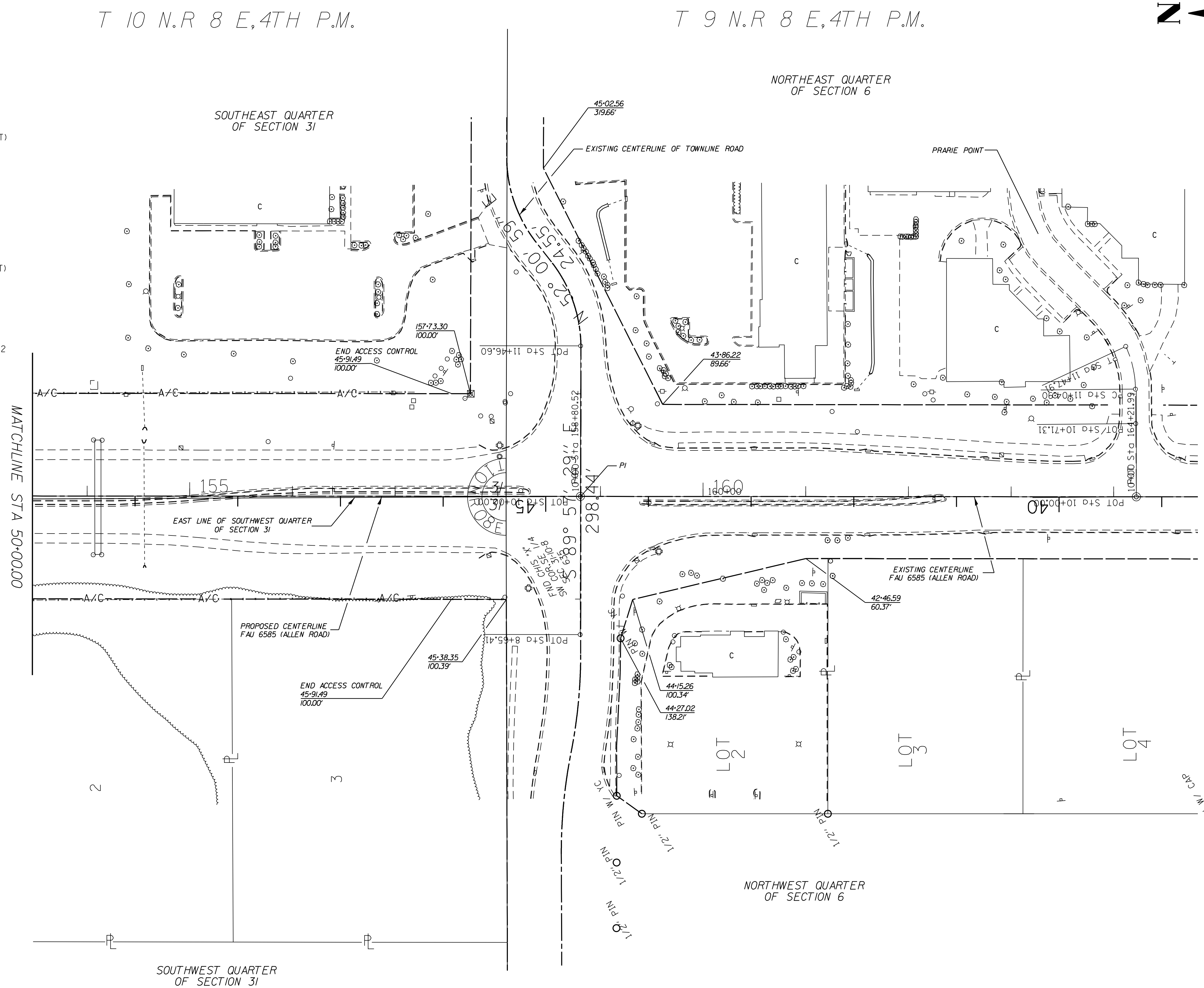
- EXISTING R.O.W.
- PROPOSED R.O.W.
- TEMP. EASEMENT
- R.O.W. MKR. ⊠

PROP. TOWNLINE01
PI STA. = 3+53.71
Δ = 11° 21′ 25″ (RT)
D = 11° 27′ 33″
R = 500.00′
T = 49.72′
L = 99.11′
E = 2.47′
P.C. STA = 3+04.00
P.T. STA = 4+03.10

PROP. TOWNLINE03
PI STA. = 8+45.02
Δ = 38° 01′ 31″ (LT)
D = 42° 26′ 29″
R = 135.00′
T = 46.52′
L = 89.60′
E = 7.79′
P.C. STA = 7+98.51
P.T. STA = 8+88.10

PROP. TOWNLINE02
PI STA. = 4+51.74
Δ = 11° 06′ 38″ (LT)
D = 11° 27′ 33″
R = 500.00′
T = 48.63′
L = 96.96′
E = 2.36′
P.C. STA = 4+03.10
P.T. STA = 5+00.06

PROP. TOWNLINE04
PI STA. = 9+59.38
Δ = 38° 11′ 03″ (RT)
D = 42° 26′ 30″
R = 135.00′
T = 46.73′
L = 89.97′
E = 7.86′
P.C. STA = 9+12.65
P.T. STA = 10+02.62



FAU 6584 (ALLEN ROAD) STA.44+65.87=
TOWNLINE ROAD STA.6+53.45

FILE NAME = D468683.dgn	USER NAME = ROBERT STICKELMAIER	DESIGNED - RTS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
jobrow.gpk		DRAWN - RTS	REVISED -	
	PLOT SCALE = 1" = 100′	CHECKED - PCF	REVISED -	
INP02ROW.ipf	PLOT DATE = 5/28/2013	DATE - 5/28/2013	REVISED -	

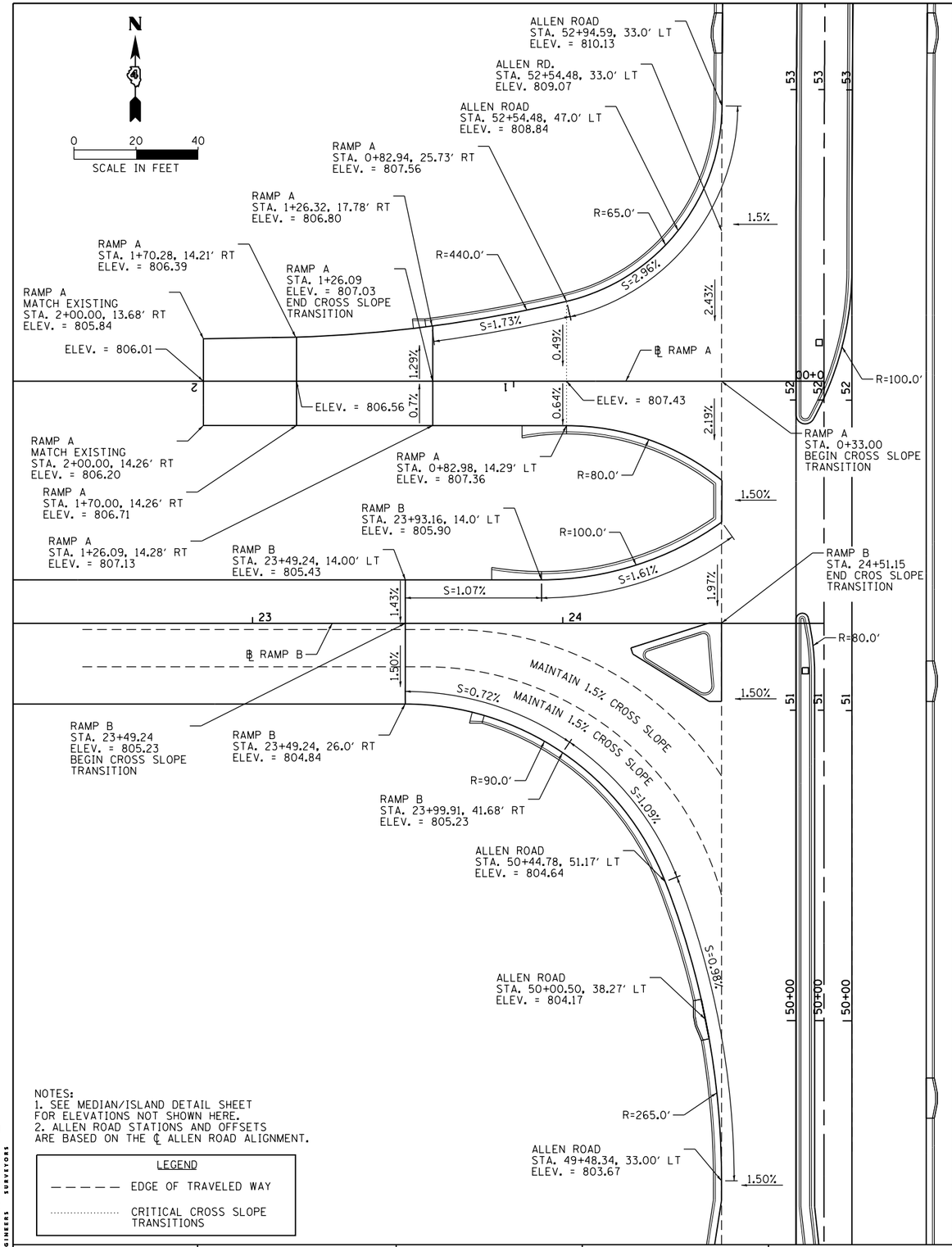
RIGHT OF WAY PLAN SHEET

SCALE: 1" = 100′ | SHEET 5 OF 5 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584/ 6585	105;(72-7HB)BY	PEORIA	487	218

CONTRACT NO. 68683

ILLINOIS FED. AID PROJECT



MAURER-STUTZ
ENGINEERS SURVEYORS

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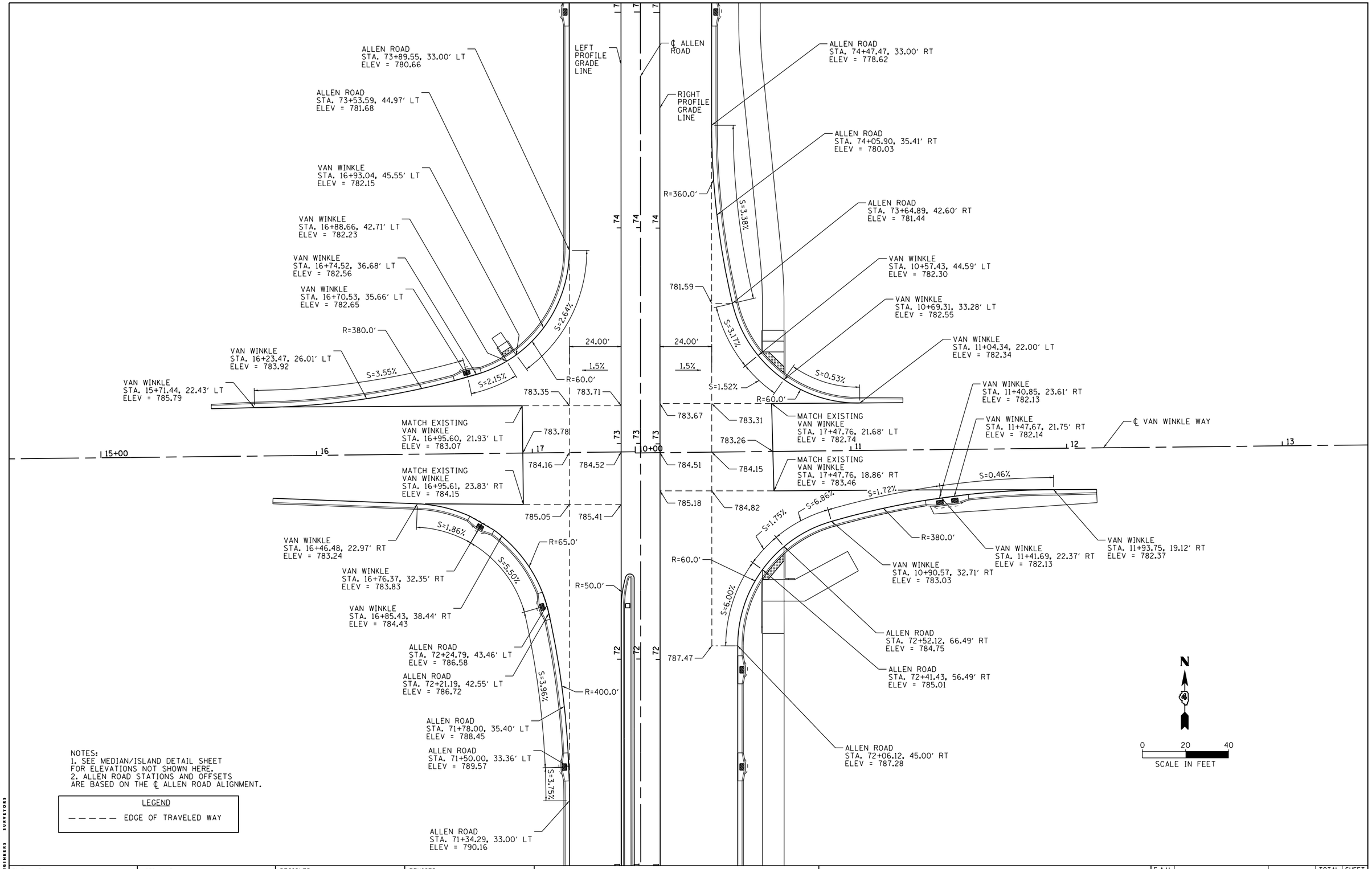
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
PAVEMENT ELEVATIONS – IL RTE 6 RAMPS

SCALE: | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	219
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



NOTES:
1. SEE MEDIAN/ISLAND DETAIL SHEET FOR ELEVATIONS NOT SHOWN HERE.
2. ALLEN ROAD STATIONS AND OFFSETS ARE BASED ON THE ℄ ALLEN ROAD ALIGNMENT.

LEGEND

– – – – – EDGE OF TRAVELED WAY

MAURER-STUTZ ENGINEERS SURVEYORS

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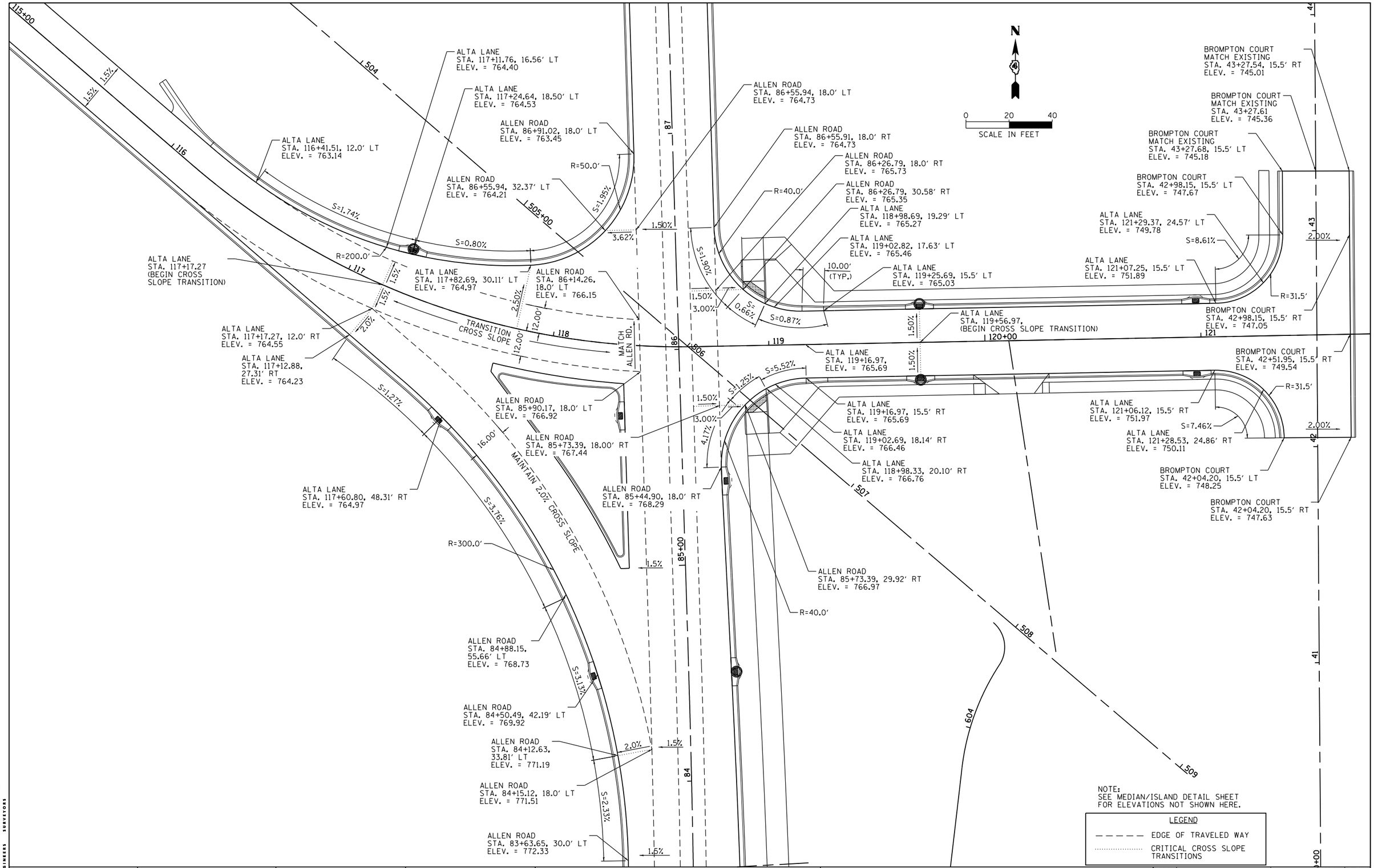
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
PAVEMENT ELEVATIONS – VAN WINKLE WAY

SCALE: | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	220
6585		CONTRACT NO. 68683		
		ILLINOIS	FED. AID PROJECT	



MAURER-STUTZ ENGINEERS SURVEYORS

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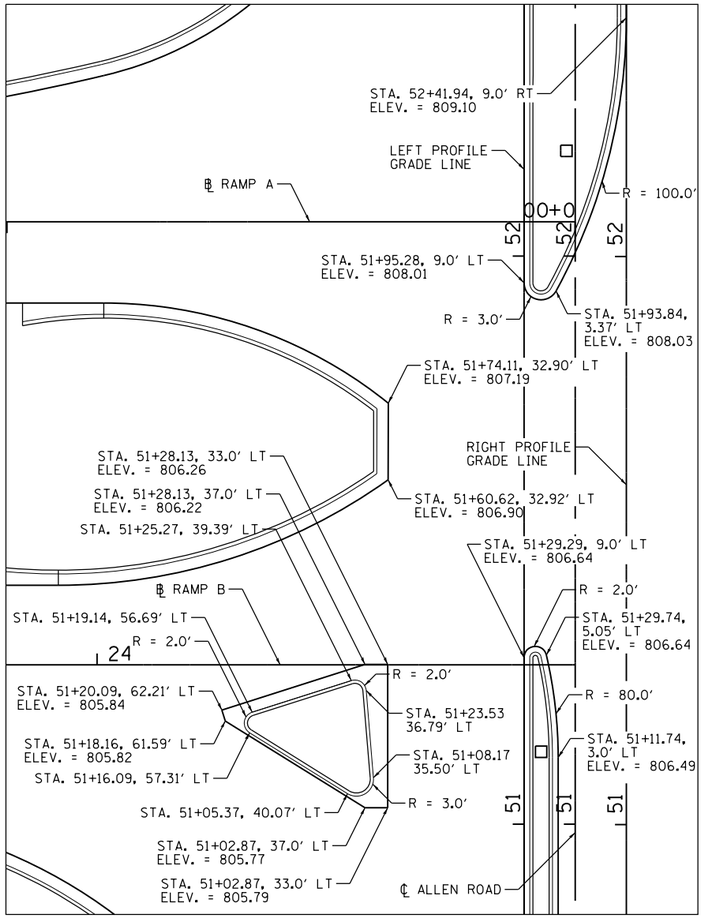
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

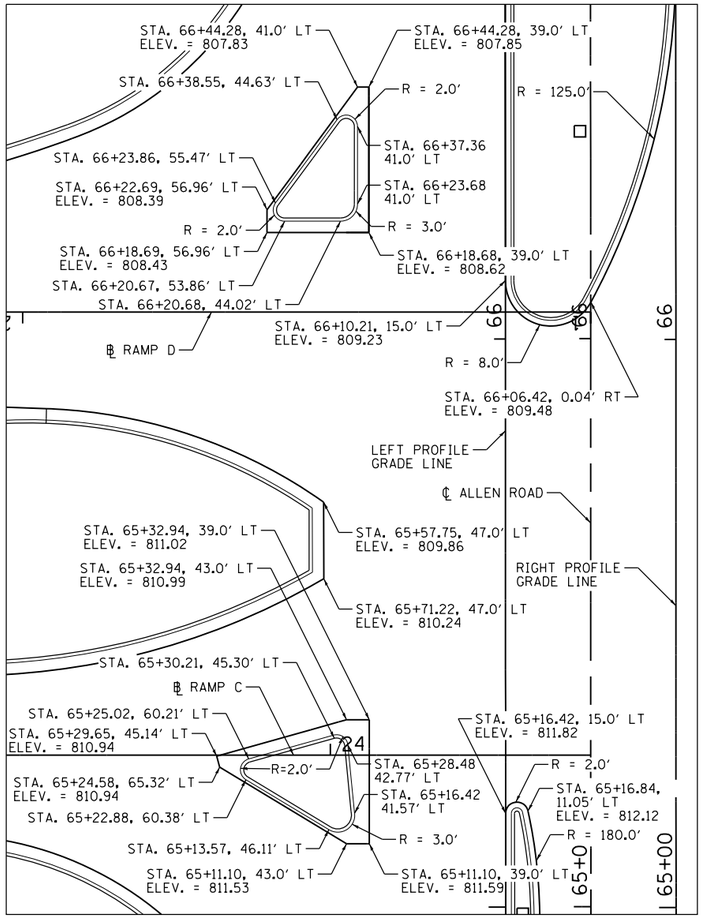
ALLEN ROAD IMPROVEMENTS
PAVEMENT ELEVATIONS – ALTA LANE & BROMPTON COURT

SCALE: | SHEET 3 OF 4 SHEETS | STA. | TO STA.

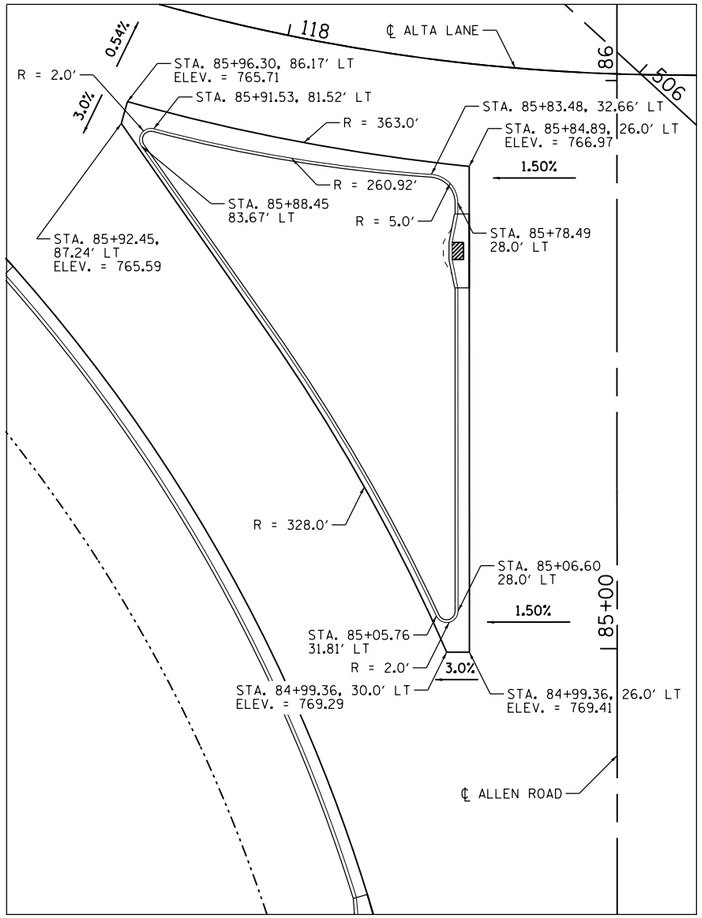
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	221
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



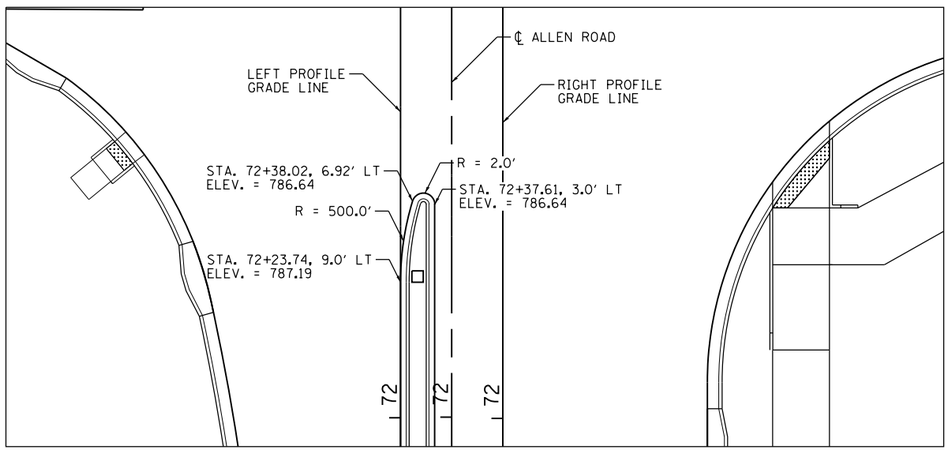
NORTH BOUND IL 6 RAMPS



SOUTH BOUND IL 6 RAMPS



ALTA LANE



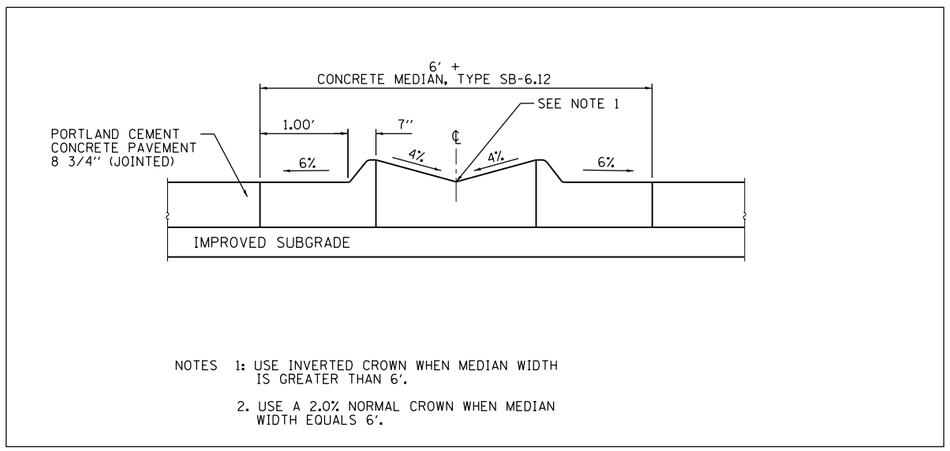
VAN WINKLE WAY

N

NOT TO SCALE

NOTE:

STATIONS AND OFFSETS ARE BASED ON THE ℄ ALLEN ROAD ALIGNMENT.



NOTES 1: USE INVERTED CROWN WHEN MEDIAN WIDTH IS GREATER THAN 6'.

2. USE A 2.0% NORMAL CROWN WHEN MEDIAN WIDTH EQUALS 6'.

MEDIAN DETAIL

MAURER-STUTZ ENGINEERS SURVEYORS

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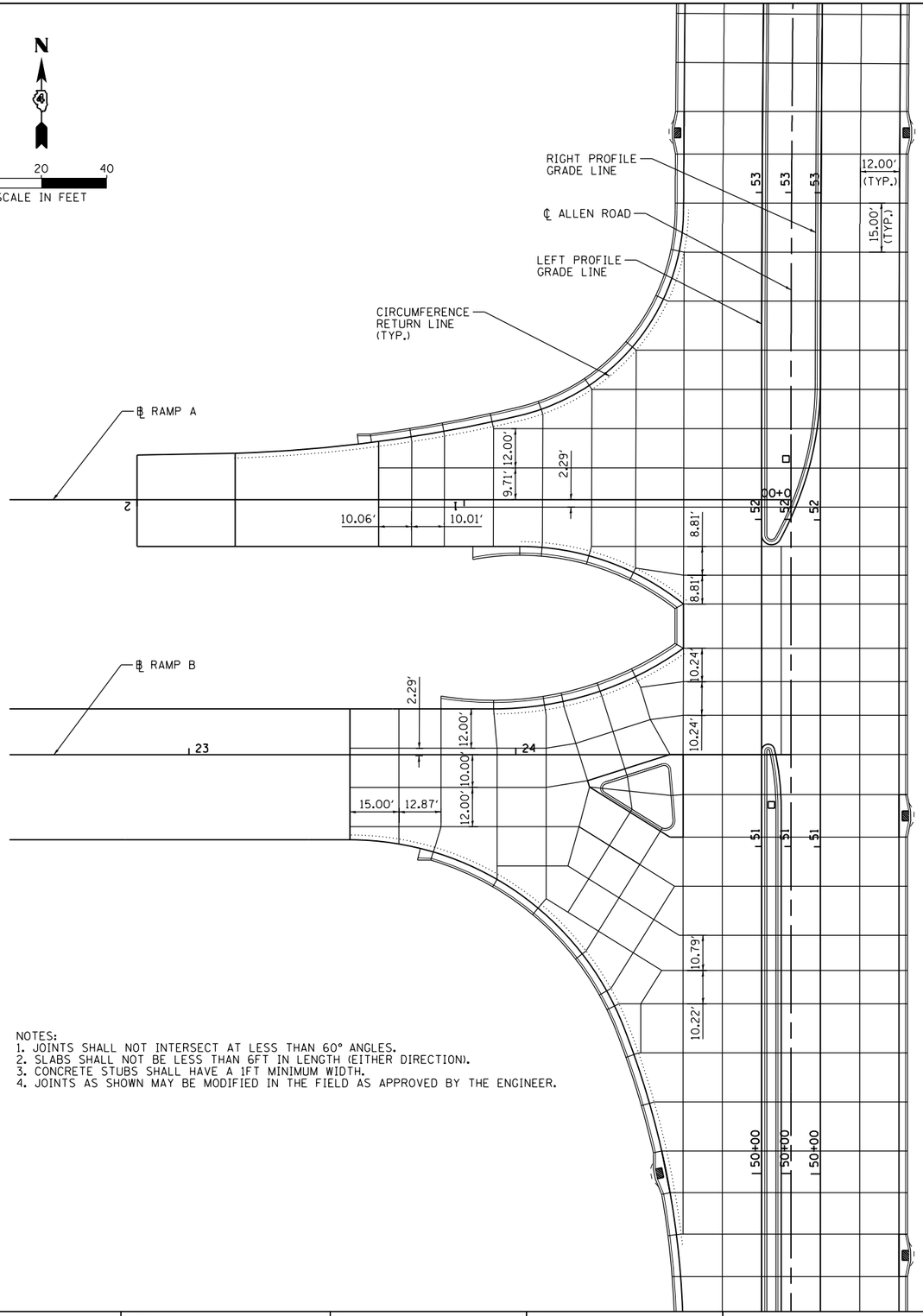
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

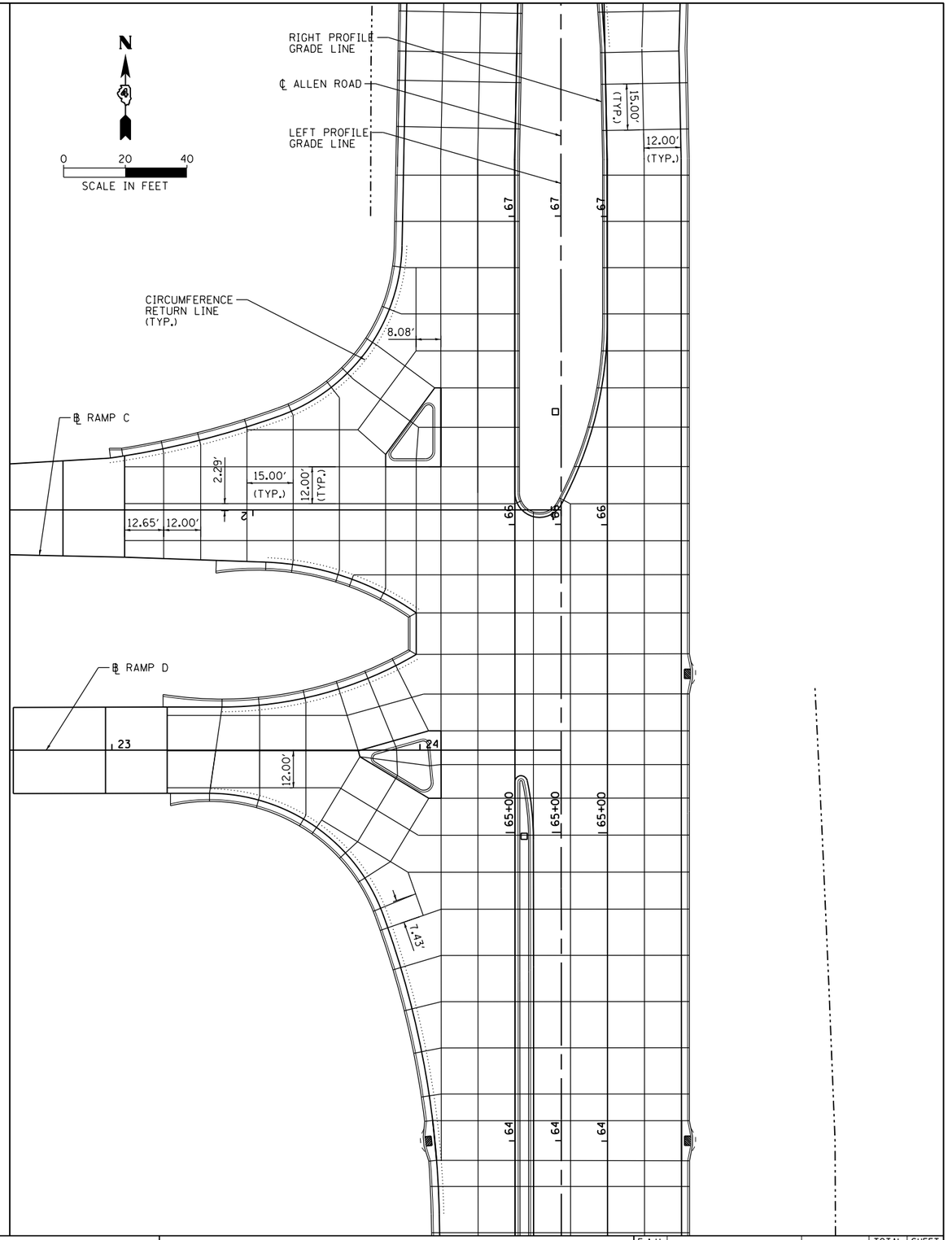
ALLEN ROAD IMPROVEMENTS
MEDIAN AND ISLAND ELEVATION DETAIL SHEET

SCALE: | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	222
6585		CONTRACT NO. 68683		
		ILLINOIS FED. AID PROJECT		



NOTES:
1. JOINTS SHALL NOT INTERSECT AT LESS THAN 60° ANGLES.
2. SLABS SHALL NOT BE LESS THAN 6FT IN LENGTH (EITHER DIRECTION).
3. CONCRETE STUBS SHALL HAVE A 1FT MINIMUM WIDTH.
4. JOINTS AS SHOWN MAY BE MODIFIED IN THE FIELD AS APPROVED BY THE ENGINEER.



MAURER-STUTZ ENGINEERS SURVEYORS

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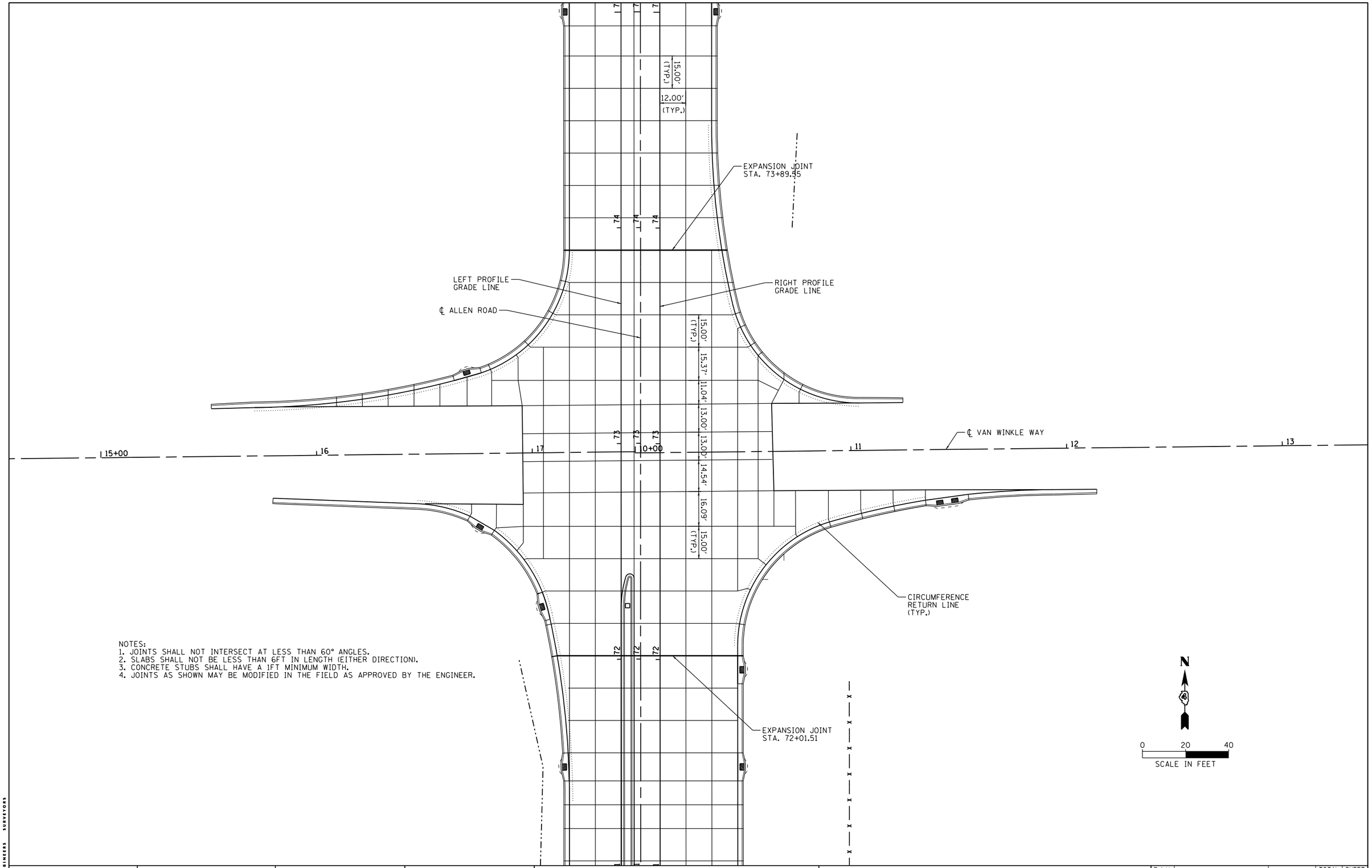
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
PAVEMENT JOINTS – IL RTE 6 RAMPS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	223
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



NOTES:
1. JOINTS SHALL NOT INTERSECT AT LESS THAN 60° ANGLES.
2. SLABS SHALL NOT BE LESS THAN 6FT IN LENGTH (EITHER DIRECTION).
3. CONCRETE STUBS SHALL HAVE A 1FT MINIMUM WIDTH.
4. JOINTS AS SHOWN MAY BE MODIFIED IN THE FIELD AS APPROVED BY THE ENGINEER.

MAURER-STUTZ ENGINEERS SURVEYORS

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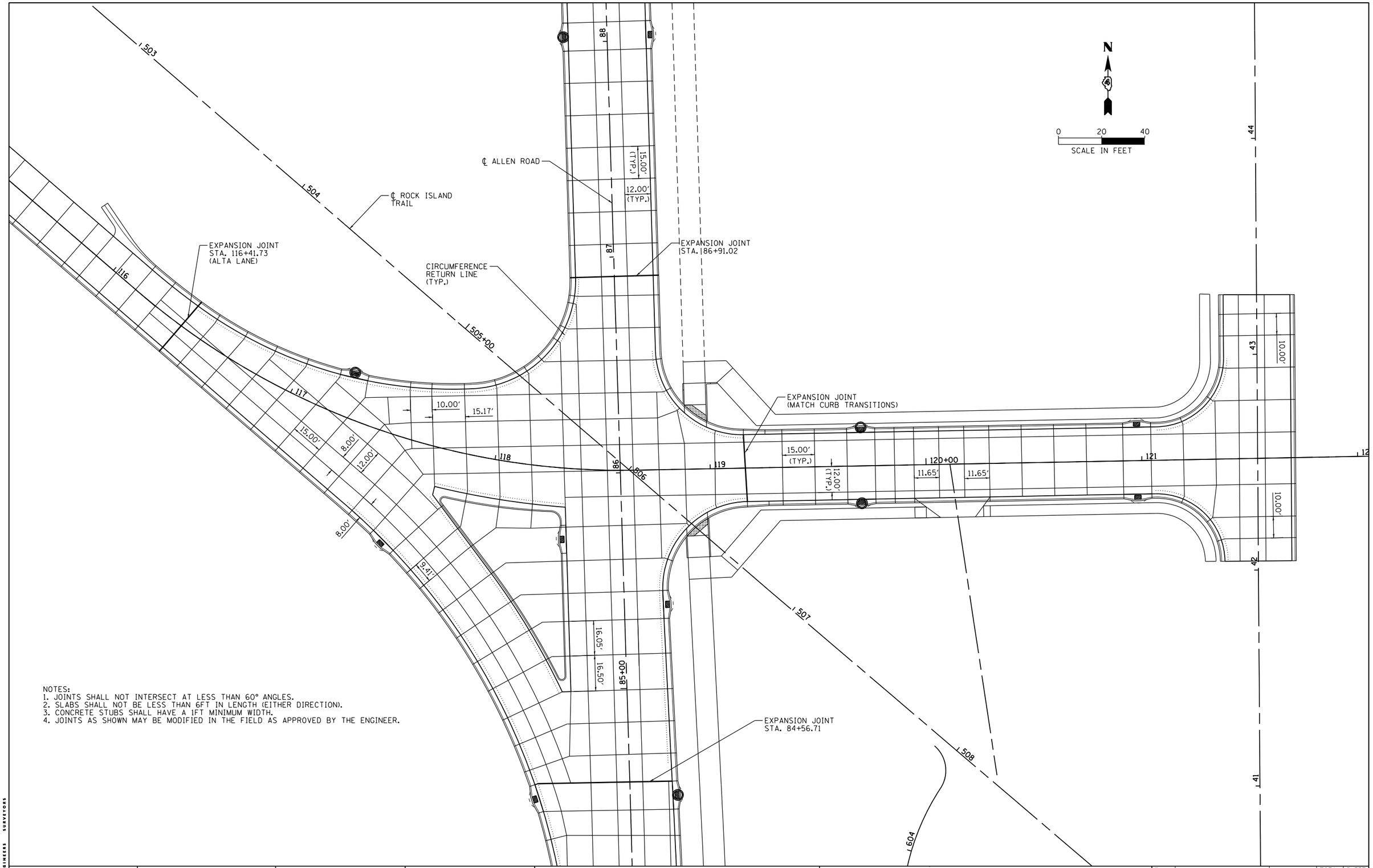
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
PAVEMENT JOINTS – VAN WINKLE WAY

SCALE: | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	224
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



NOTES:
1. JOINTS SHALL NOT INTERSECT AT LESS THAN 60° ANGLES.
2. SLABS SHALL NOT BE LESS THAN 6FT IN LENGTH (EITHER DIRECTION).
3. CONCRETE STUBS SHALL HAVE A 1FT MINIMUM WIDTH.
4. JOINTS AS SHOWN MAY BE MODIFIED IN THE FIELD AS APPROVED BY THE ENGINEER.

MAURER-STUTZ ENGINEERS SURVEYORS

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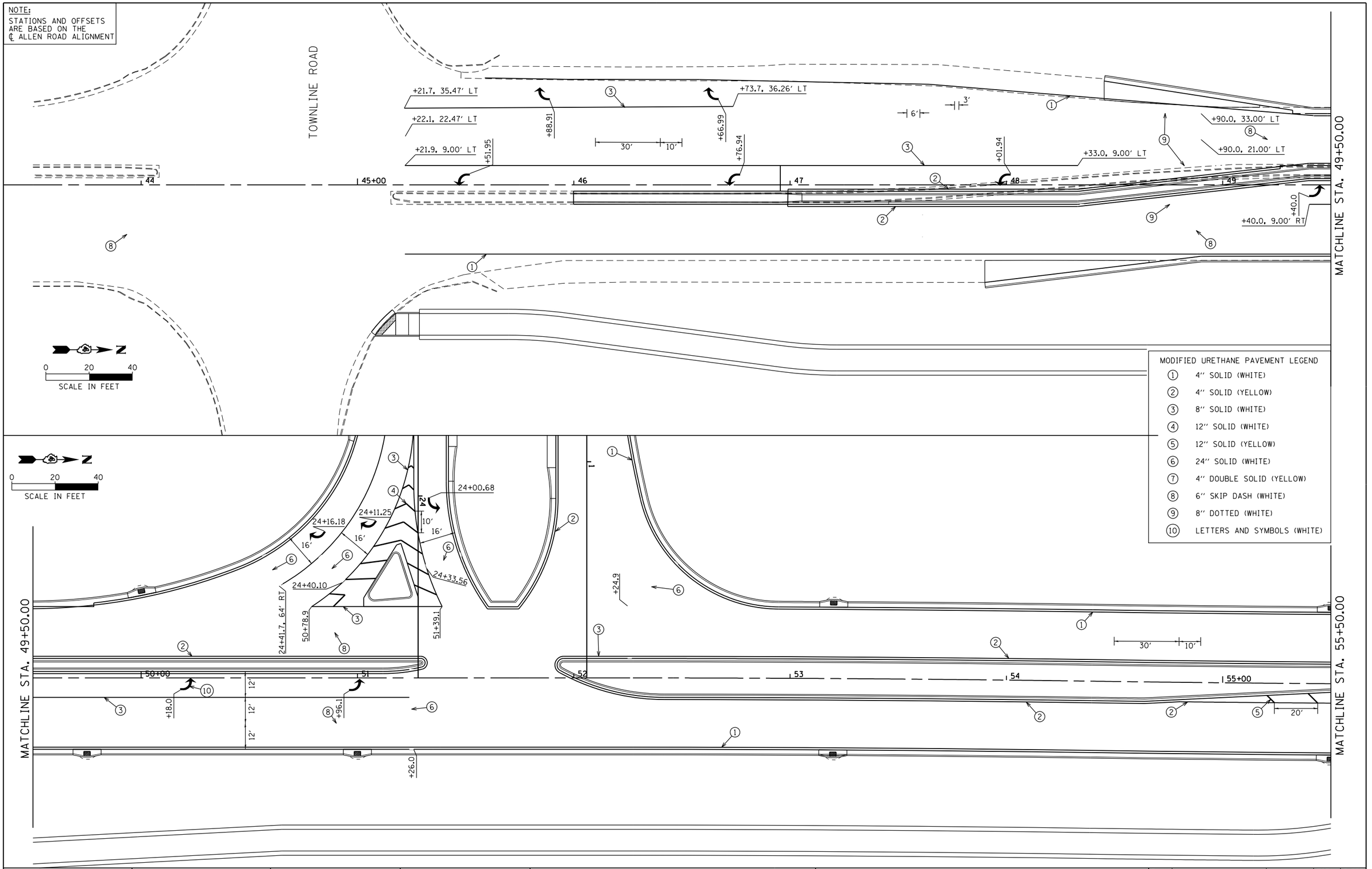
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
PAVEMENT JOINTS – ALTA LANE & BROMPTON COURT

SCALE: | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	225
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

NOTE:
STATIONS AND OFFSETS ARE BASED ON THE ℄ ALLEN ROAD ALIGNMENT



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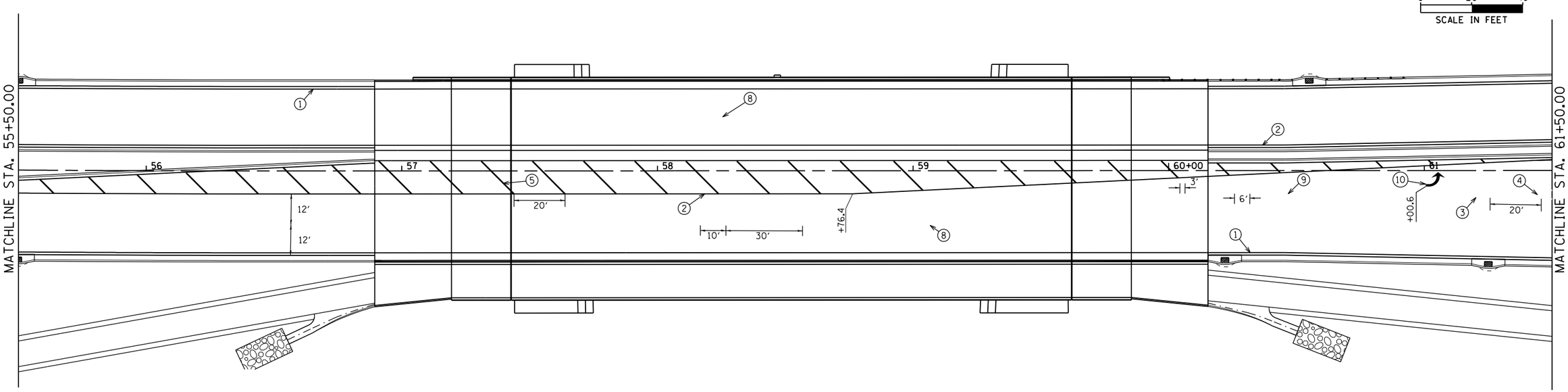
Default	PLOT DATE = 1/29/2014	DATE -	REVISED -

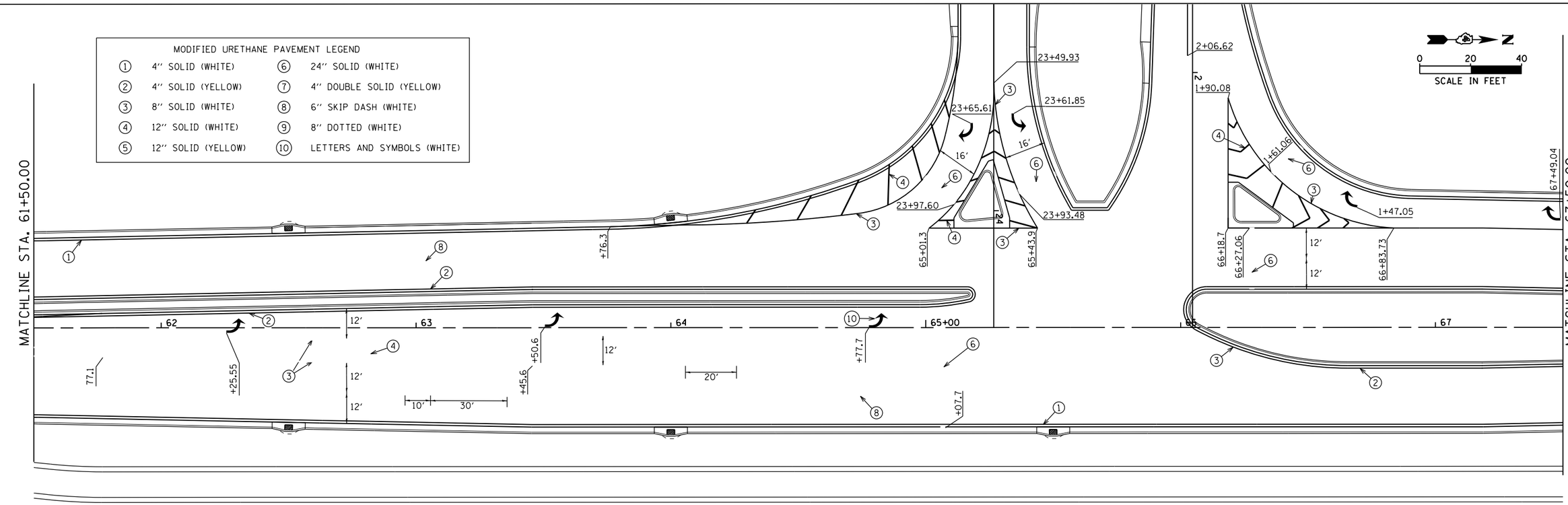
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
PAVEMENT MARKING DETAILS – ALLEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	226
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			





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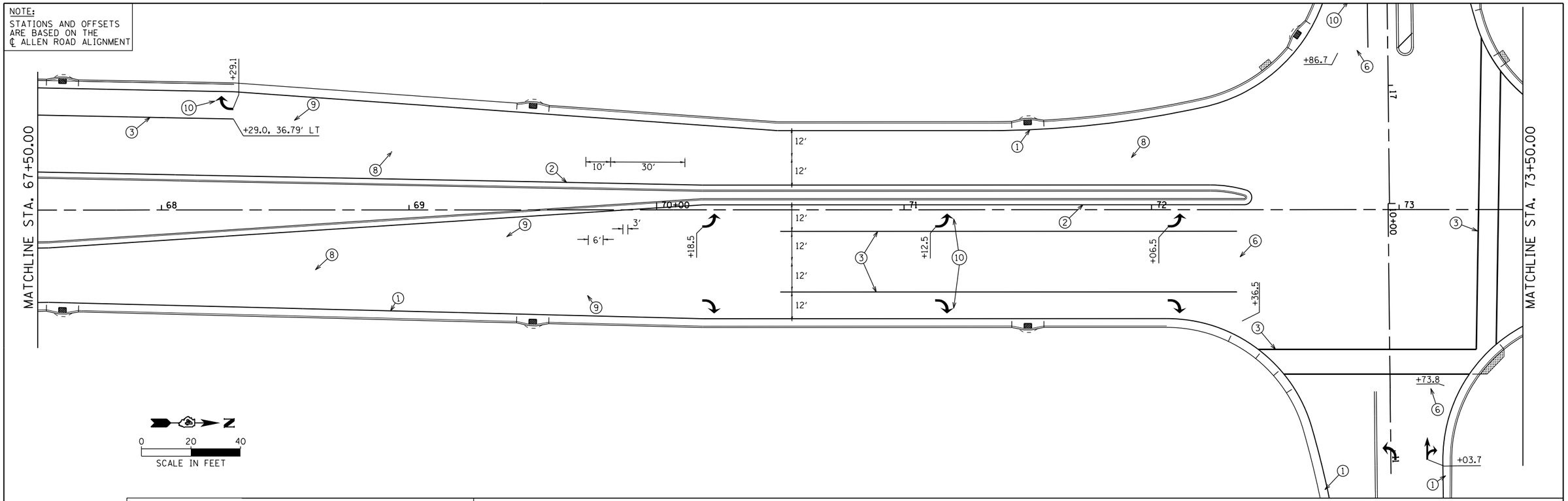
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
PAVEMENT MARKING DETAILS – ALLEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	227
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

NOTE:
STATIONS AND OFFSETS ARE BASED ON THE ℄ ALLEN ROAD ALIGNMENT

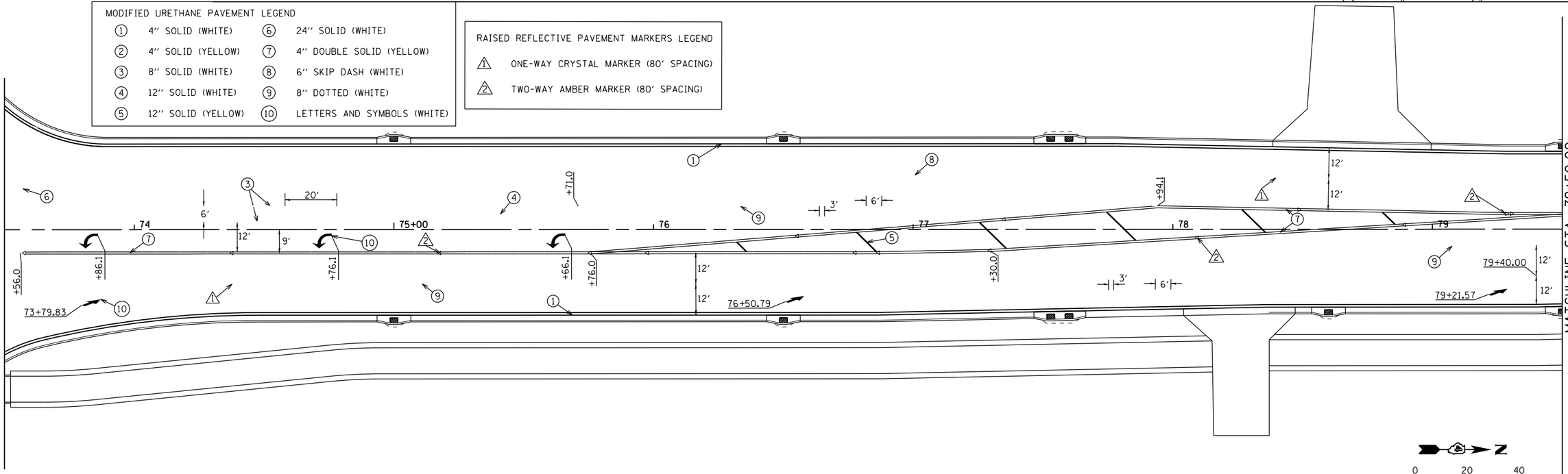


MODIFIED URETHANE PAVEMENT LEGEND

(1)	4'' SOLID (WHITE)	(6)	24'' SOLID (WHITE)
(2)	4'' SOLID (YELLOW)	(7)	4'' DOUBLE SOLID (YELLOW)
(3)	8'' SOLID (WHITE)	(8)	6'' SKIP DASH (WHITE)
(4)	12'' SOLID (WHITE)	(9)	8'' DOTTED (WHITE)
(5)	12'' SOLID (YELLOW)	(10)	LETTERS AND SYMBOLS (WHITE)

RAISED REFLECTIVE PAVEMENT MARKERS LEGEND

1	ONE-WAY CRYSTAL MARKER (80' SPACING)
2	TWO-WAY AMBER MARKER (80' SPACING)



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Default	PLOT DATE = 1/29/2014	DATE -	REVISED -

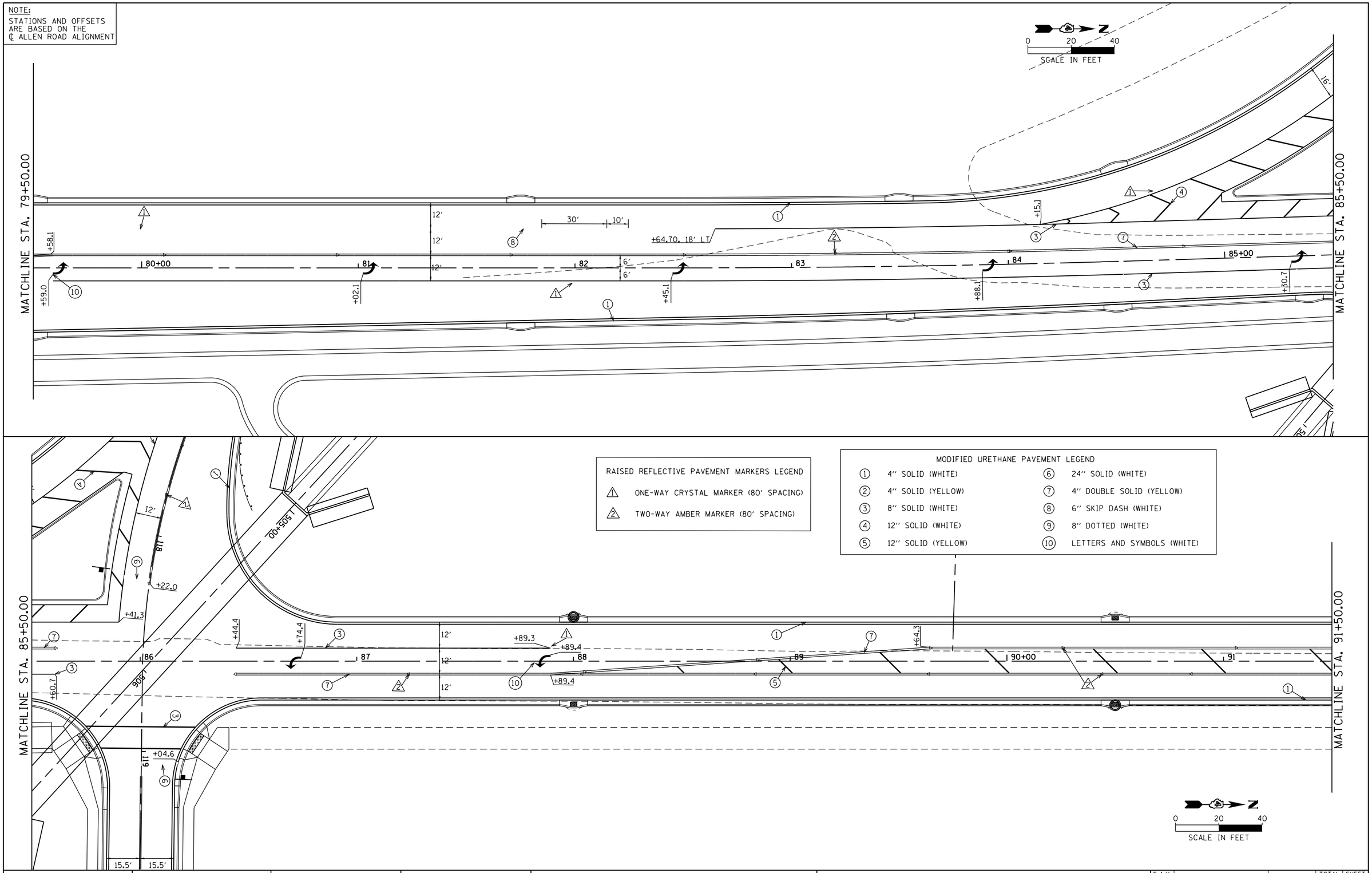
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
PAVEMENT MARKING DETAILS – ALLEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	228
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

NOTE:
STATIONS AND OFFSETS ARE BASED ON THE ℄ ALLEN ROAD ALIGNMENT



RAISED REFLECTIVE PAVEMENT MARKERS LEGEND

1	ONE-WAY CRYSTAL MARKER (80′ SPACING)
2	TWO-WAY AMBER MARKER (80′ SPACING)

MODIFIED URETHANE PAVEMENT LEGEND

1	4″ SOLID (WHITE)	6	24″ SOLID (WHITE)
2	4″ SOLID (YELLOW)	7	4″ DOUBLE SOLID (YELLOW)
3	8″ SOLID (WHITE)	8	6″ SKIP DASH (WHITE)
4	12″ SOLID (WHITE)	9	8″ DOTTED (WHITE)
5	12″ SOLID (YELLOW)	10	LETTERS AND SYMBOLS (WHITE)

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Default	PLOT DATE = 1/29/2014	DATE -	REVISED -

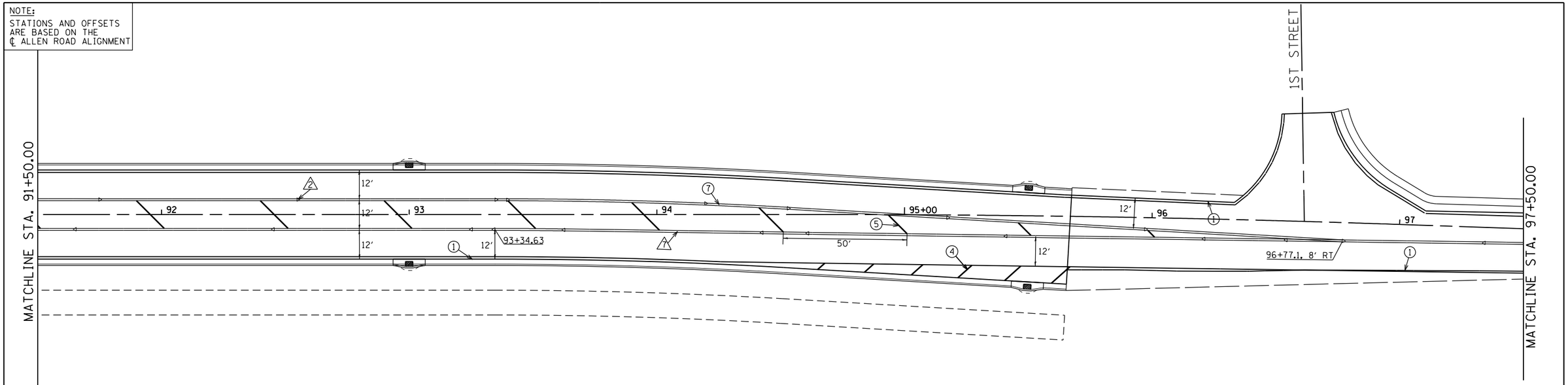
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

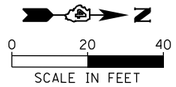
ALLEN ROAD IMPROVEMENTS
PAVEMENT MARKING DETAILS – ALLEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	229
6585		CONTRACT NO. 68683		
	ILLINOIS	FED. AID PROJECT		

NOTE:
STATIONS AND OFFSETS ARE BASED ON THE ℄ ALLEN ROAD ALIGNMENT



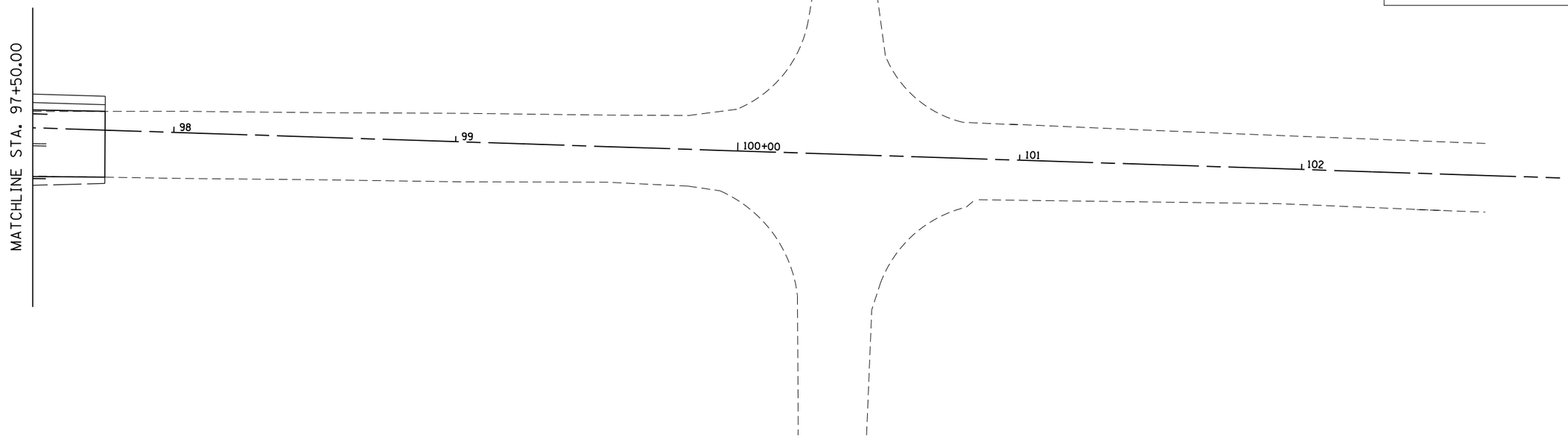


RAISED REFLECTIVE PAVEMENT MARKERS LEGEND

1	ONE-WAY CRYSTAL MARKER (80' SPACING)
2	TWO-WAY AMBER MARKER (80' SPACING)

MODIFIED URETHANE PAVEMENT LEGEND

1	4'' SOLID (WHITE)
2	4'' SOLID (YELLOW)
3	8'' SOLID (WHITE)
4	12'' SOLID (WHITE)
5	12'' SOLID (YELLOW)
6	24'' SOLID (WHITE)
7	4'' DOUBLE SOLID (YELLOW)
8	6'' SKIP DASH (WHITE)
9	8'' DOTTED (WHITE)
10	LETTERS AND SYMBOLS (WHITE)



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Default	PLOT DATE = 1/29/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

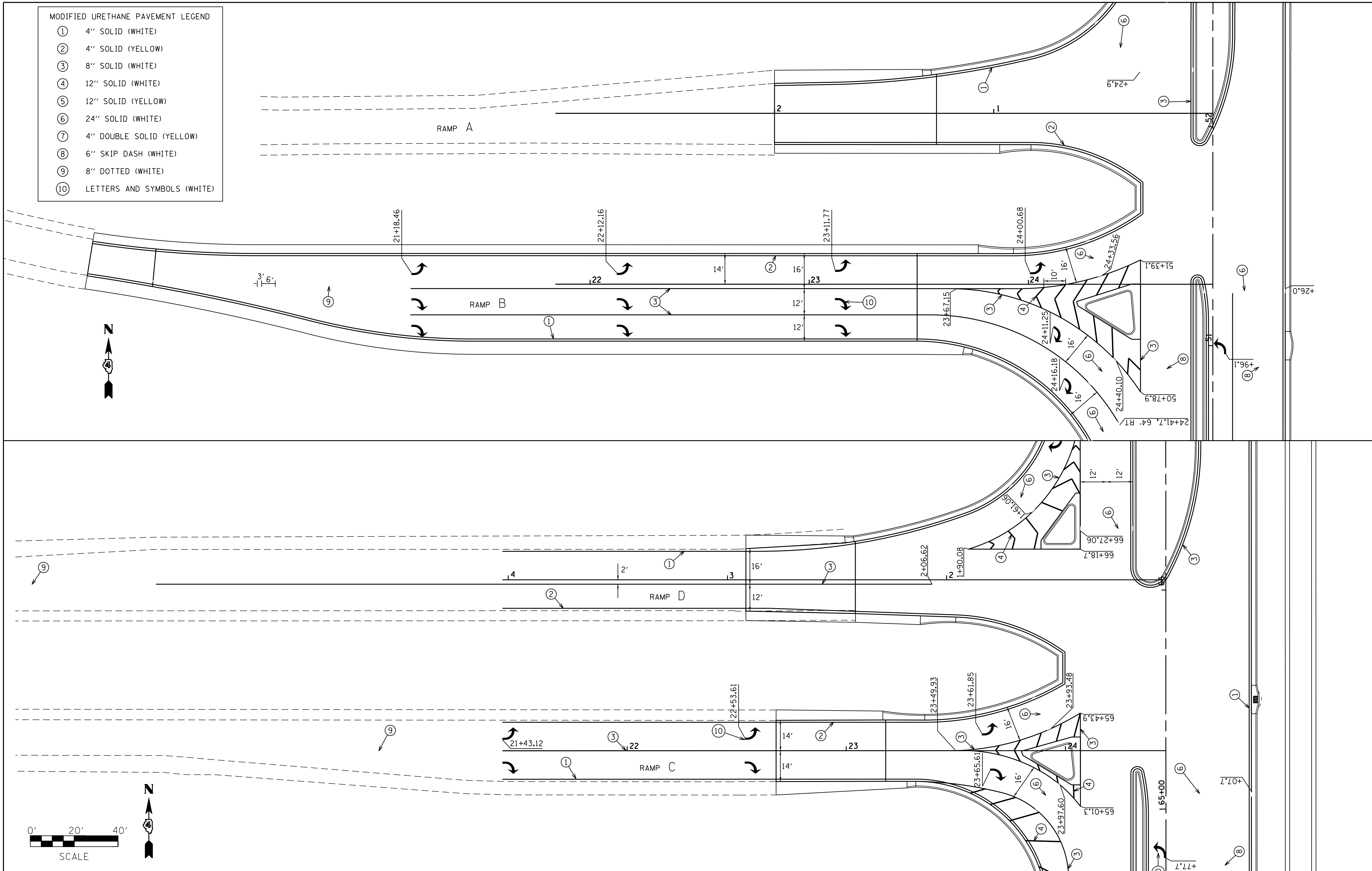
ALLEN ROAD IMPROVEMENTS
PAVEMENT MARKING DETAILS – ALLEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	230
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

MODIFIED URETHANE PAVEMENT LEGEND

1. 4" SOLID (WHITE)
2. 4" SOLID (YELLOW)
3. 8" SOLID (WHITE)
4. 12" SOLID (WHITE)
5. 12" SOLID (YELLOW)
6. 24" SOLID (WHITE)
7. 4" DOUBLE SOLID (YELLOW)
8. 6" SKIP DASH (WHITE)
9. 8" DOTTED (WHITE)
10. LETTERS AND SYMBOLS (WHITE)



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

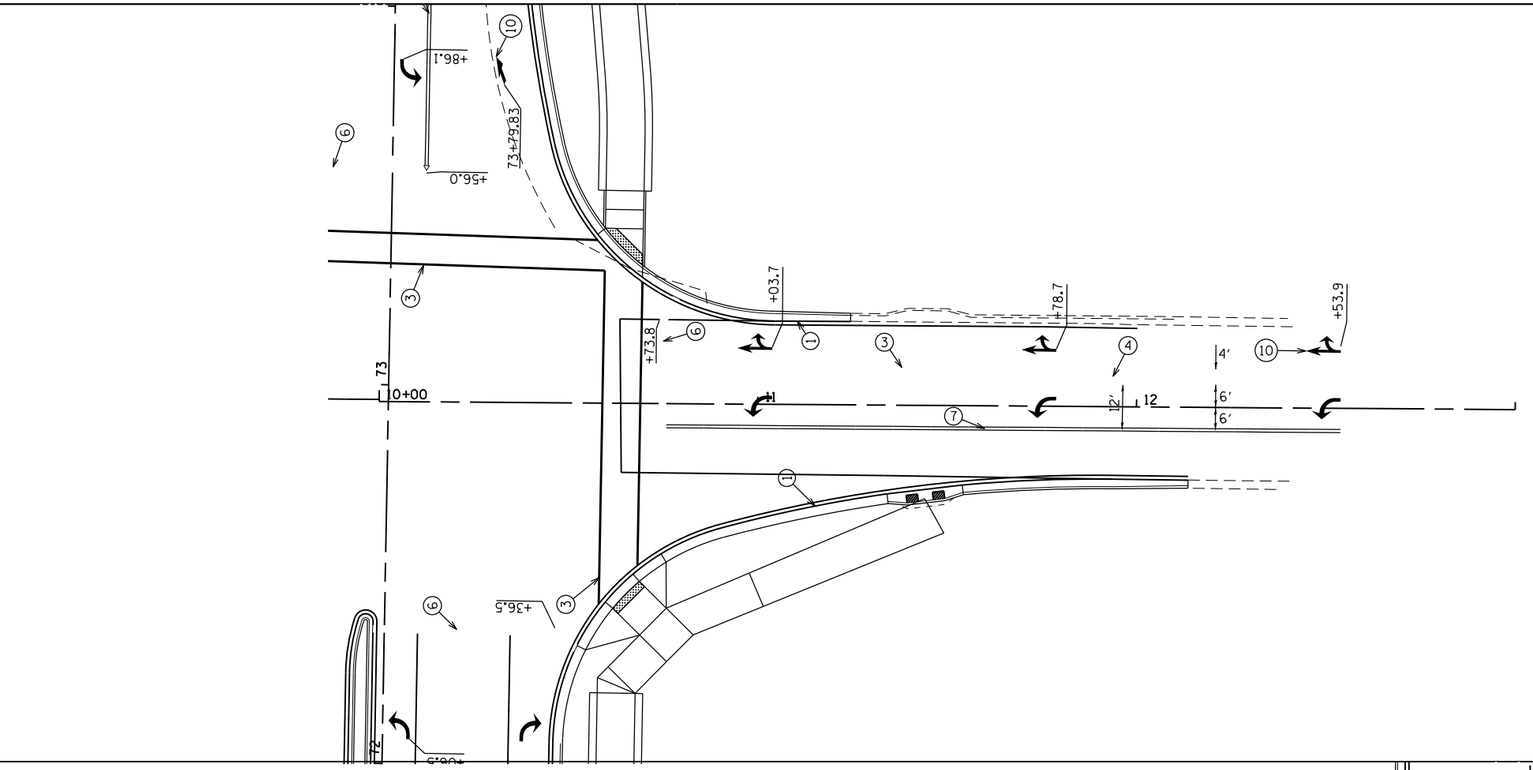
ALLEN ROAD IMPROVEMENTS
PAVEMENT MARKING DETAILS - IL ROUTE 6 RAMPS

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	231
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

MODIFIED URETHANE PAVEMENT LEGEND

(1)	4'' SOLID (WHITE)
(2)	4'' SOLID (YELLOW)
(3)	8'' SOLID (WHITE)
(4)	12'' SOLID (WHITE)
(5)	12'' SOLID (YELLOW)
(6)	24'' SOLID (WHITE)
(7)	4'' DOUBLE SOLID (YELLOW)
(8)	6'' SKIP DASH (WHITE)
(9)	8'' DOTTED (WHITE)
(10)	LETTERS AND SYMBOLS (WHITE)



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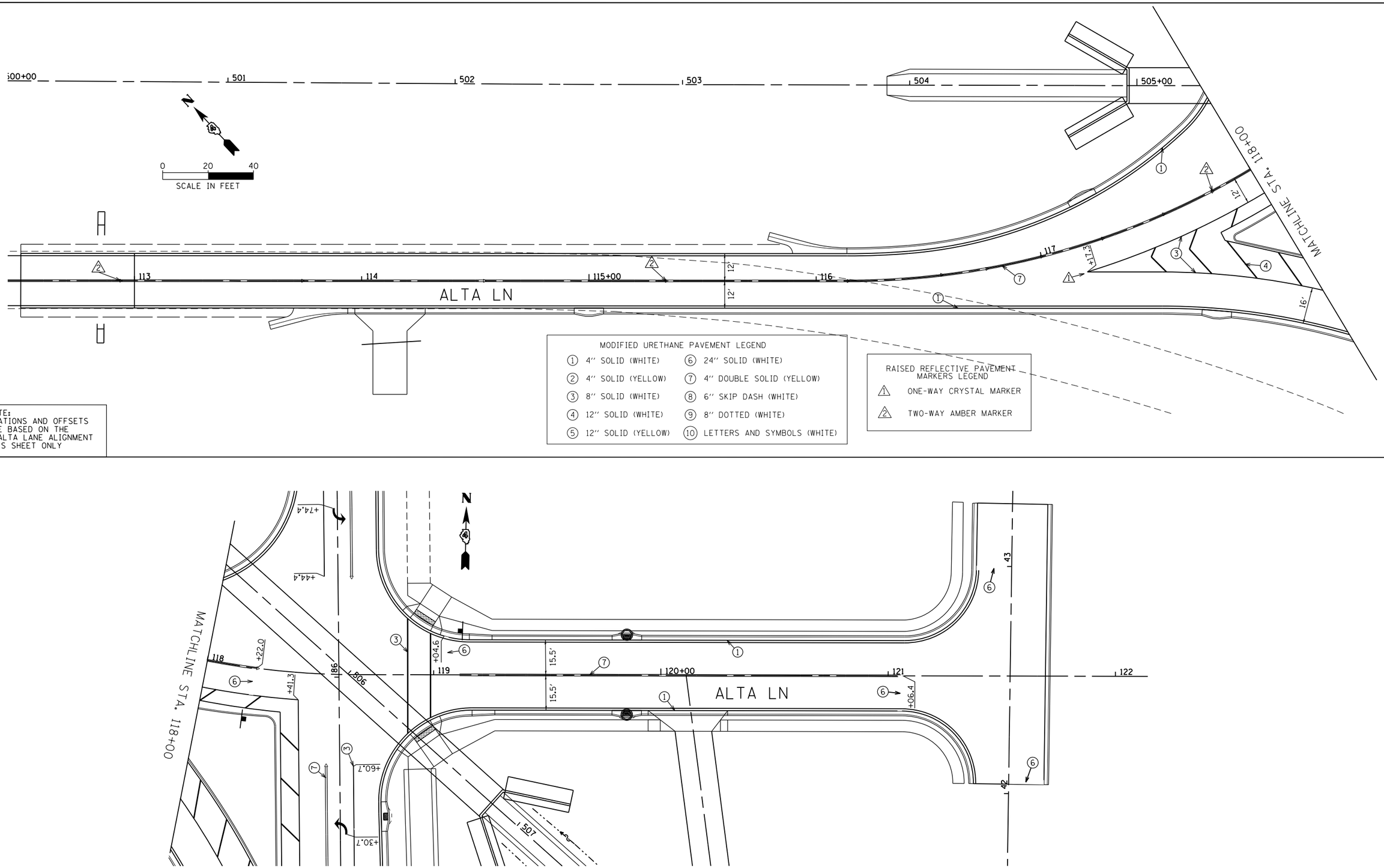
Default	PLOT DATE = 1/29/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
PAVEMENT MARKING DETAILS – VAN WINKLE WAY

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	232
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
PAVEMENT MARKING DETAILS – ALTA LANE

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	233
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

Roadway	Station	A	B	C	D
ALLEN RD	46+90	15.0	12.5	7	18
ALLEN RD	54+26	15.0	11.0	5	35
ALLEN RD	68+29	18.5	17.0	10.5	30
ALLEN RD	71+29	15.0	12.5	13.6	30
RAMP B	19+70	26.5	11.5	5	35

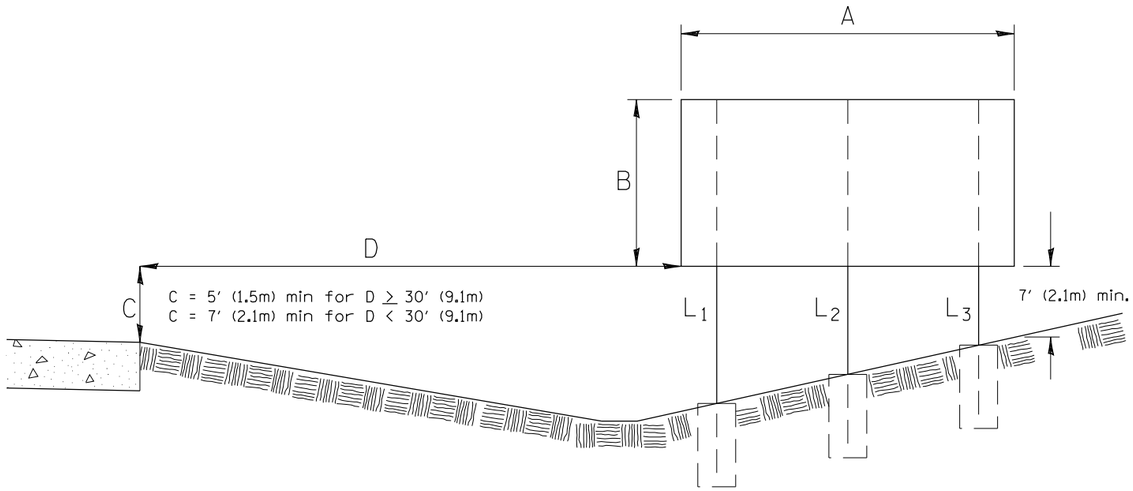
C * (A) For signs less than 30'(9.1m) from edge of pavement, the bottom edge of Sign shall be set level at an elevation of at least 7'(2.1m) above grade Elevation at edge of pavement.

(B) For signs 30'(9.1m) and greater from edge of pavement, the bottom edge of sign shall be set level at an elevation of at least 5'(1.5m) above grade elevation at edge of pavement.

(C) For signs on rising embankmentslopes, the bottom edge of the sign shall be set so as to obtain at least 7'(2.1 m) between the top of the stub post and the slot at the fuse plate on the far post. This may be reduced to 5'(1.5m) when the distance from the edge of pavement is 30'(9.1m) or greater and the slope is 1:2 or steeper or where it would be unlikely for an out of control vehicle to reach the post.

D ** All signs will be placed 35'(10.7m) or more off of main line wherever possible, except when placed behind guardrail. Signs on ramps will be placed 18'(5.5m) or more off the edge of pavement.

In general, the location of shoulder mounted signs may vary in order to take advantage of flatter cross sections which can result in considerable cost savings.



L_1 is always the post nearest to the edge of pavement. (See Sign Structures Manual)

7' (2.1m) min. between top of stud post & fuse plate. May be reduced to 5' (1.5m) when D = 30' (9.1m) & the slope is 1:2 or steeper or where it would be unlikely for an out of control vehicle to reach the post.

All post sizes and support lengths shown on plans shall be verified in field prior to construction.

All post sizes will be verified by the I.D.O.T. Shoulder Mounted Sign Post Stress Analysis (See Special Provisions).

DESIGNER NOTES:
1. Include District Special Provision.
2. Check w/Bureau of Operations for current polices.
3. Designer fill in table.

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

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

01-01-97	RENUM. E-3.01, METRICS, NEW REVISION BOX, REVISED	T.P.
	TITLE BOX, ADDED GENERAL NOTES	
10-16-06	REVISED TO 2007 SPEC.	M.A.

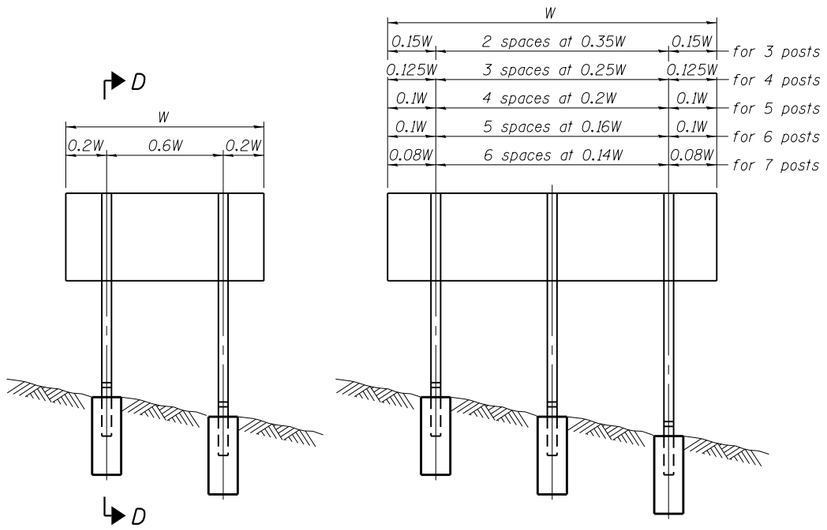
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING SCHEDULE

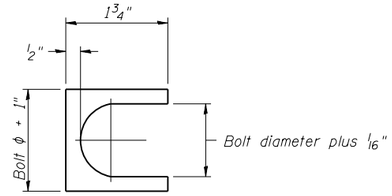
NOT TO SCALE

CADD STD. 720001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	234
		CONTRACT NO. 68683		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

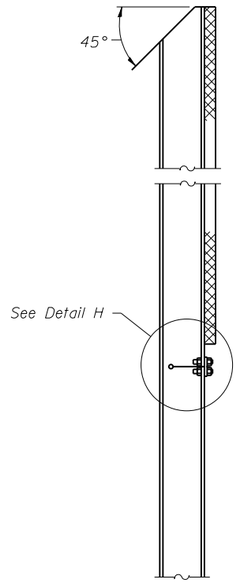


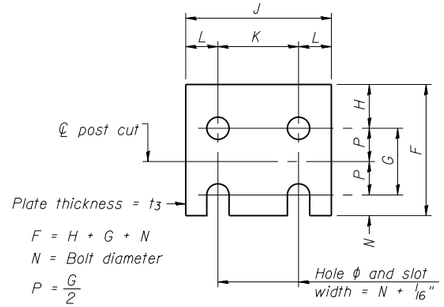
ELEVATION



SHIM DETAIL

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

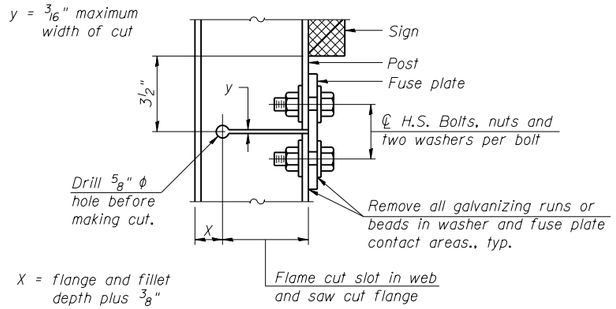




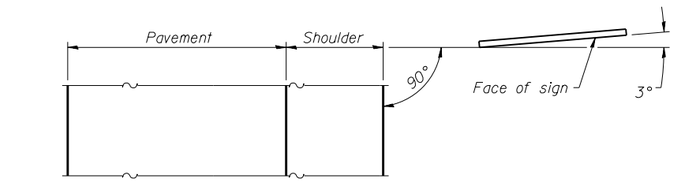
FUSE PLATE DATA		
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"

FUSE PLATE DETAIL

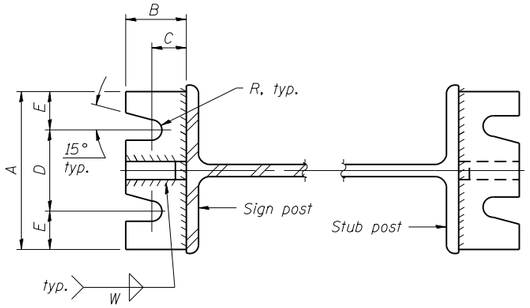
(Install with notches down.)



DETAIL H

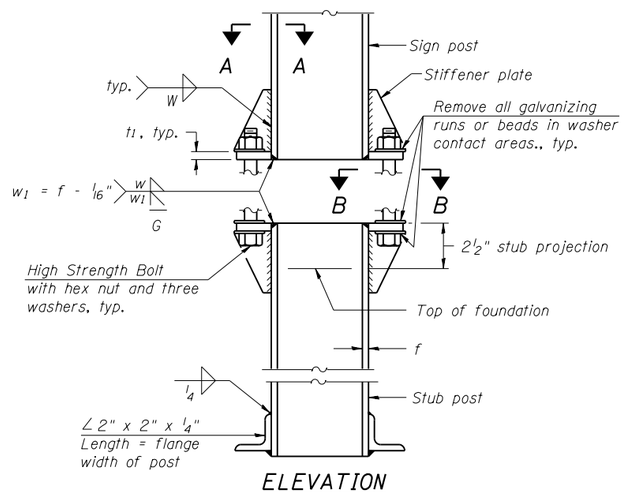


LOCATION SKETCH

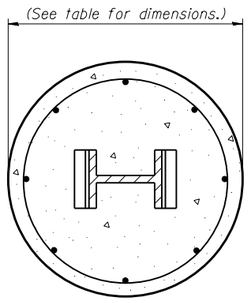


SECTION A-A

SECTION B-B



ELEVATION
SIGN POST & STUB POST



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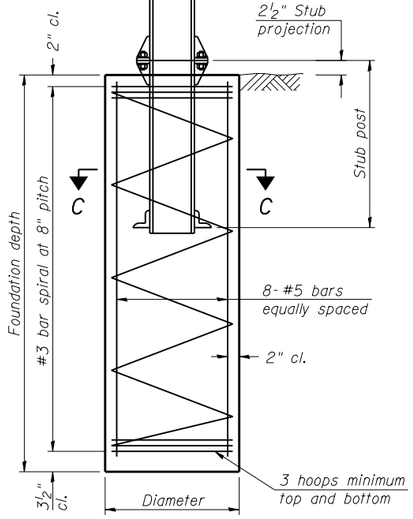
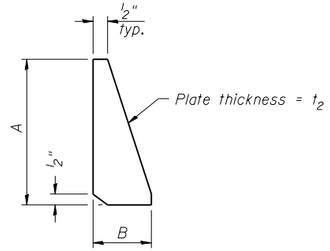


SECTION D-D



STIFFENER PLATE DETAIL

Diameter

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
Structural steel - 20,000 p.s.i.
Reinforcing steel - 20,000 p.s.i.
Concrete - 1,400 p.s.i.
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BAW-A-1 1-20-11

(Sheet 1 of 2)

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS

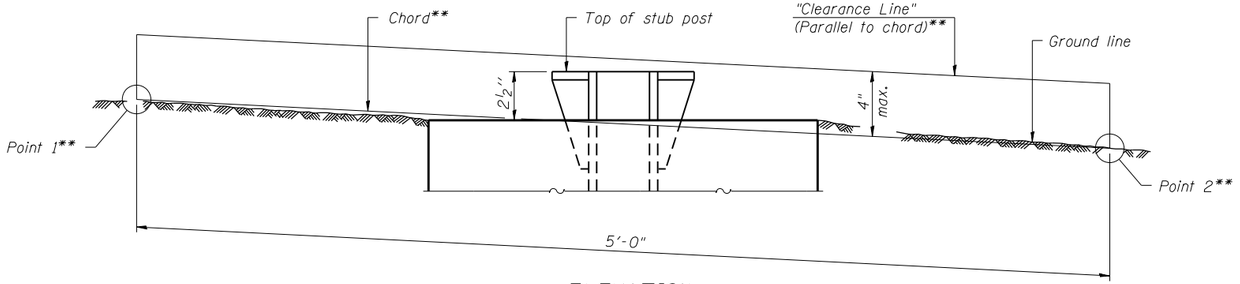
SHEET NO. OF SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	234A
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA			
	Foundation			Reinforcement			Stub Post														
	Diameter	* Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. (2)	Length	Bolt Size	A	B	C	D	E	t_1	t_2	R	W	J	K	L	t_3
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-3"	⅝" x 3¼"	6"	2¼"	1¼"	3½"	1¼"	¾"	½"	11/32"	¼"	4"	2¼"	⅞"	¼"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	⅝" x 3¼"	6"	2¼"	1¼"	3½"	1¼"	¾"	½"	11/32"	¼"	6"	3½"	1¼"	⅜"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¼"	2¾"	1¼"	⅜"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2½"	105'-0"	92	3'-0"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¾"	2¾"	1½"	½"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2½"	112'-0"	98	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	5¾"	2¾"	1½"	⅝"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2½"	119'-0"	107	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6½"	3½"	1½"	⅝"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8½"	145'-0"	113	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6¾"	3½"	1⅝"	½"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8½"	153'-0"	122	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	6¾"	3½"	1⅝"	½"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8½"	162'-0"	130	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	7"	3½"	1¾"	½"

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE — Sign Height																			
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0''	18'-0''	19'-0''	20'-0''	21'-0''	22'-0''	23'-0''	24'-0''
W6x9	½" x 1½"	½" x 1½"	½" x 1½"	½" x 1½"	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——
W6x15	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	——	——	——	——	——	——	——	——	——	——	——	——
W8x18	½" x 1¾"	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	——	——	——	——	——	——	——	——	——	——	——
W10x22	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	——	——	——	——	——	——	——	——
W10x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	——	——	——	——	——	——	——
W12x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	——	——	——	——	——	——
W14x30	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	——	——	——	——
W14x38	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"
W16x45	——	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"



ELEVATION
GROUND LINE & STUB POST

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

(1) Quantity includes all concrete necessary for one foundation.

(2) Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2 1-20-11

(Sheet 2 of 2)

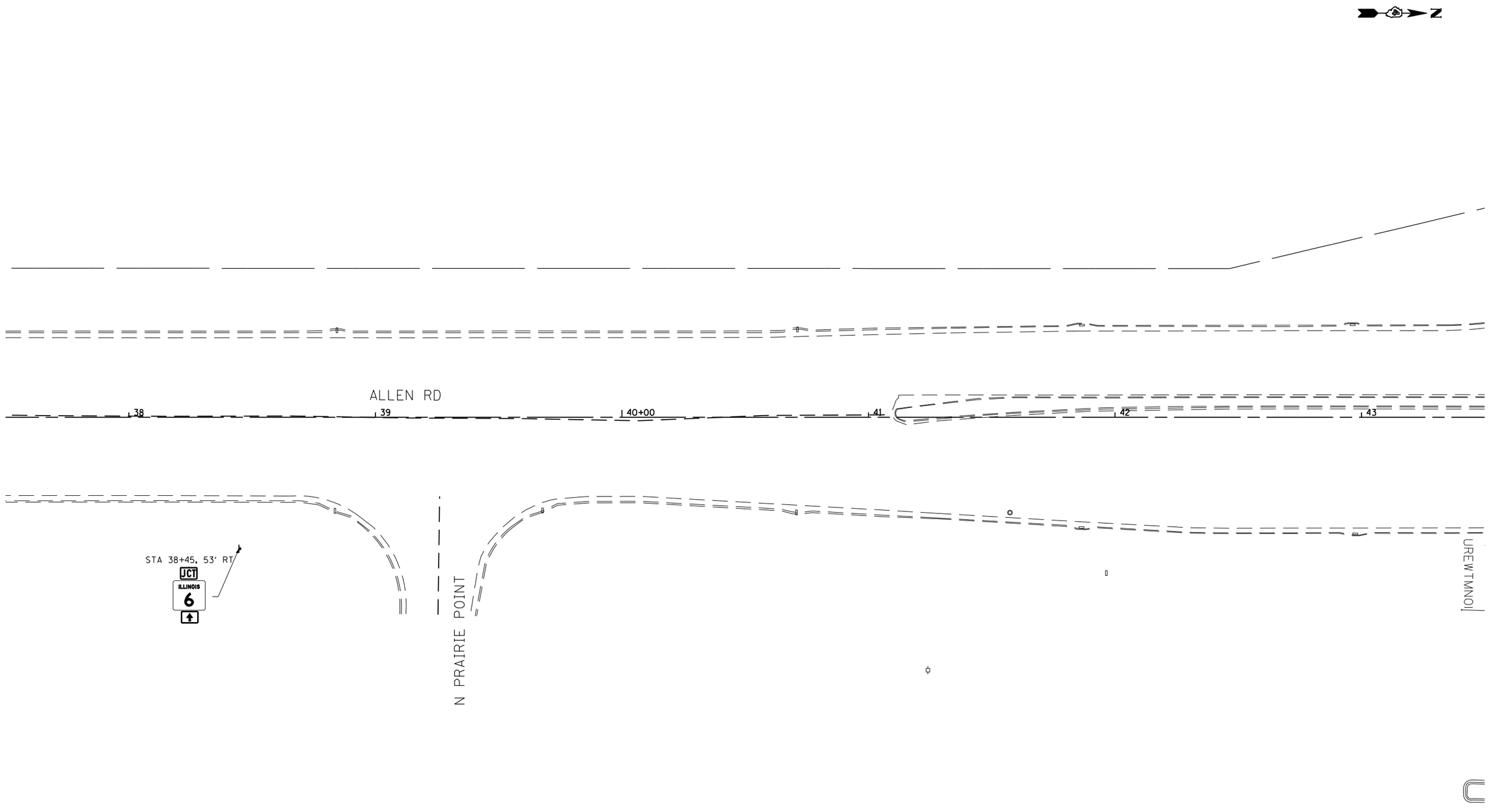
FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES

SHEET NO. OF SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	234B
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



NOTE: SEE SCHEDULE OF QUANTITIES FOR ADDITIONAL SIGNS NOT SHOWN ON THE SIGN PLAN SHEETS.

Kaskaskia Engineering Group, LLC

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
SIGN PLAN
ALLEN ROAD

SCALE: 1"=20' | SHEET 1 OF 7 SHEETS | STA. | TO STA.

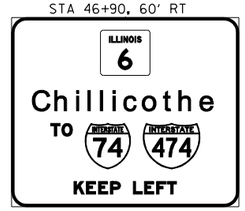
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	235
		CONTRACT NO. 68683		
	ILLINOIS	FED. AID PROJECT		

TOWNLINE ROAD

ALLEN RD

44 | 45+00 | 46 | 47 | 48 | 49

STA 46+90, 60' RT



STA 49+40, RT

Kaskaskia Engineering Group, LLC

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	PLOT DATE = 1/22/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
SIGN PLAN
ALLEN ROAD

SCALE: 1"=20' | SHEET 2 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	236
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

N

NB RAMPS

ALLEN RD

STA 54+26, 75.5' LT

ILLINOIS 6 NORTH
Chillicothe

STA 54+63, 40.5' RT

SOUTH ILLINOIS 6

50+00 51 52 53 54 55+00

0+00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
SIGN PLAN
ALLEN ROAD

SCALE: 1"=20' | SHEET 3 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	237
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

Kaskaskia Engineering Group, LLC

N

IL ROUTE 6

STA 60+60, 40.8' LT

NORTH ILLINOIS 6

56 57 58 59 60+00 61

ALLEN RD

STA 928+50, RT

EXIT 6

Allen Road

STA 61+01, LT

ILLINOIS 6 SOUTH

TO MEMPHIS 74 INTERSTATE 474

Kaskaskia Engineering Group, LLC

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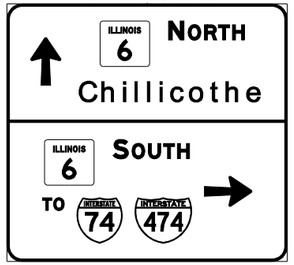
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
SIGN PLAN
ALLEN ROAD

SCALE: 1"=20' | SHEET 4 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	238
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

STA 68+29, 88' LT



STA 71+29, 70.5' LT

Kaskaskia Engineering Group, LLC

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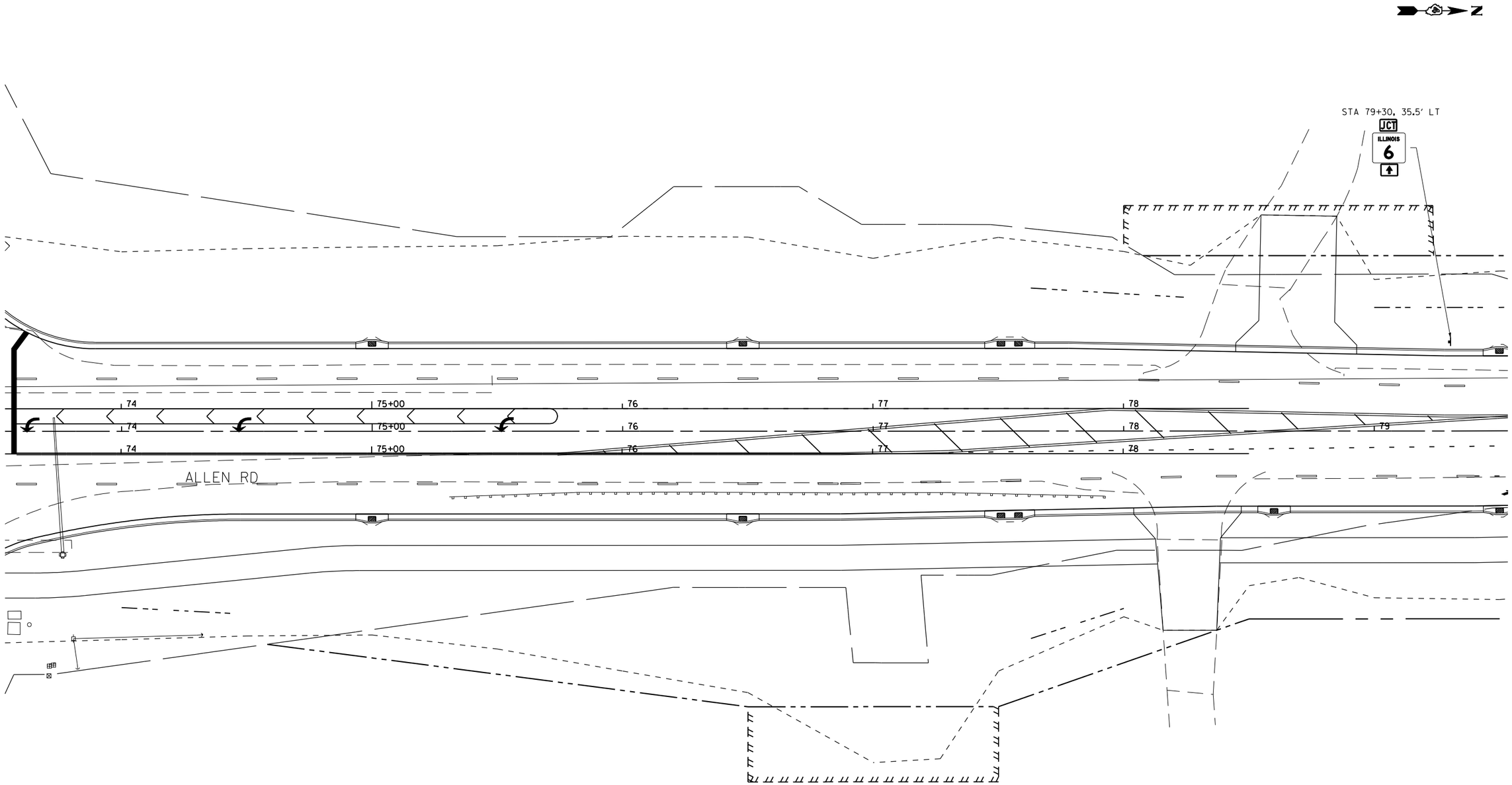
$MODELNAME$	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
SIGN PLAN
ALLEN ROAD

SCALE: 1"=20' | SHEET 5 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	239
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



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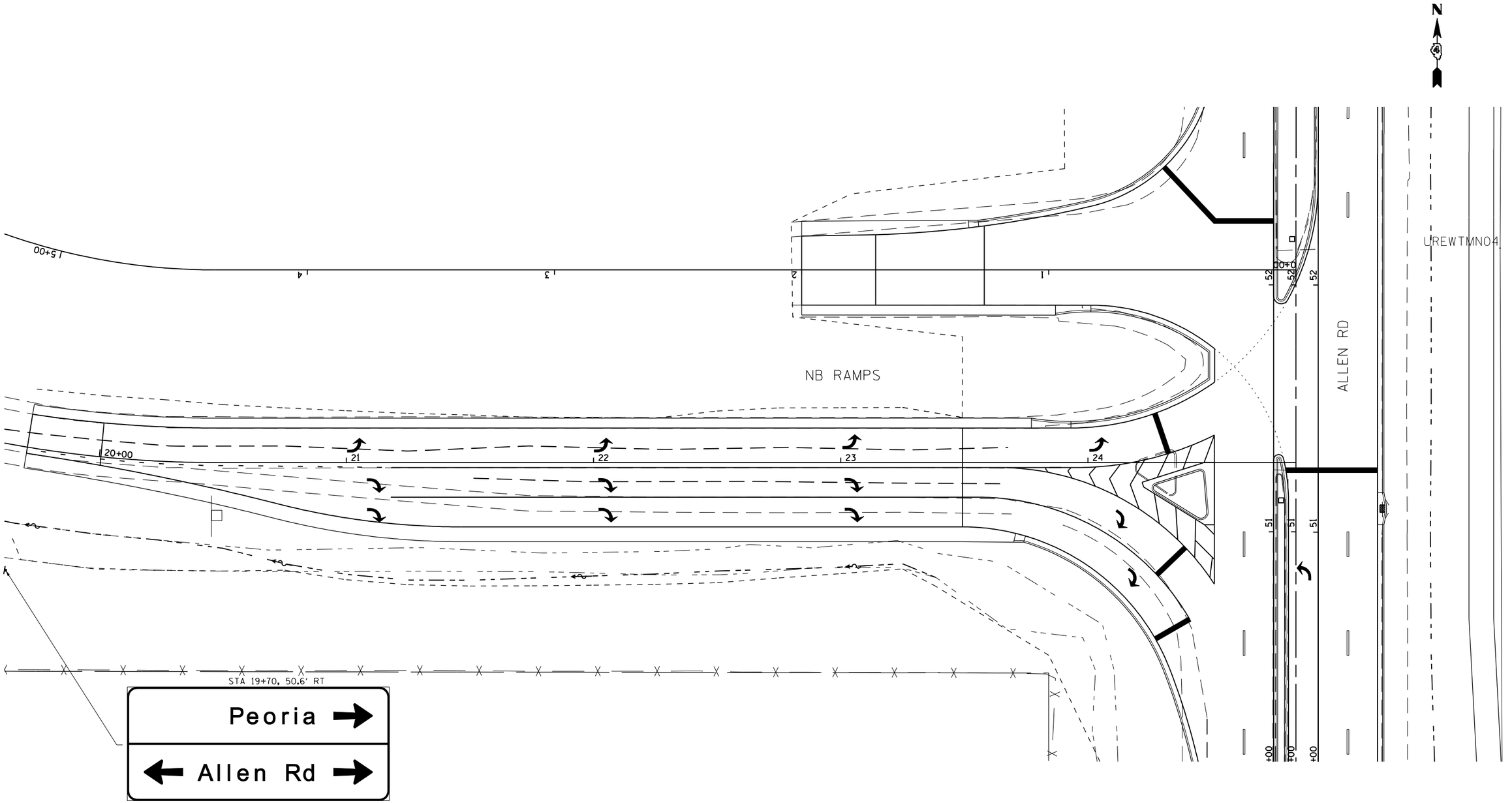
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	240
		CONTRACT NO. 68683		
	ILLINOIS	FED. AID PROJECT		

Kaskaskia Engineering Group, LLC



Kaskaskia Engineering Group, LLC

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
SIGN PLAN
NB RAMP

SCALE: 1"=20' | SHEET 7 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	241
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

12.0" Radius, 2.0" Border, White on Green;
“Chillicothe” ClearviewHwy-5-W; “TO” E Mod 2K; “KEEP LEFT” E Mod 2K;
Table of widths and spaces.

60.0	24.0	60.0

11.8	C 10.9	4.1	h 9.2	4.8	i 3.1	4.8	l 4.2	4.0	l 4.2	3.7	i 3.2	4.2	c 9.0	3.3	o 10.4	3.1	t 6.6	4.0	h 9.2	4.6	e 9.8	11.8

27.1	T 5.9	1.2	O 6.7	10.0	24.0	12.0	30.0	27.1

31.4	K 8.2	1.6	E 7.4	2.1	E 7.4	2.1	P 8.1	10.0	L 7.4	1.5	E 7.4	2.1	F 7.4	1.1	T 7.4	31.4

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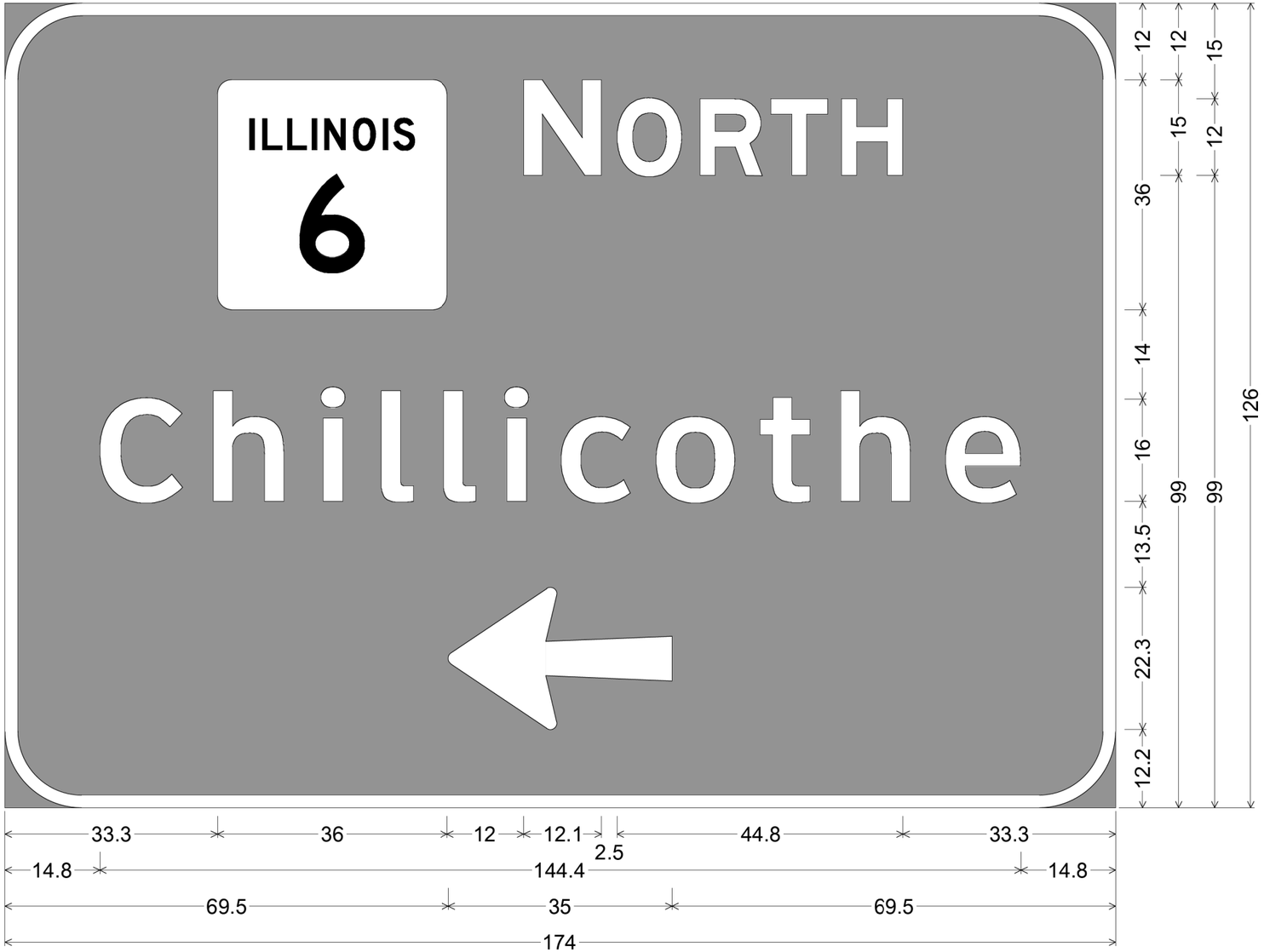
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
SIGN PANEL DETAIL

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	242
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



12.0" Radius, 2.0" Border, White on Green;
“N ORTH” E Mod 2K; “Chillicothe” ClearviewHwy-5-W; Arrow 160 - 35.0" 180°;
Table of widths and spaces.

33.3	36.0	12.0	**N** 12.1	2.5	**O** 10.1	2.9	**R** 9.7	1.3	**T** 8.9	2.2	**H** 9.7	33.3	

14.8	**C** 13.0	4.9	**h** 11.1	5.7	**i** 3.8	5.7	**l** 5.1	4.8	**l** 5.0	4.5	**i** 3.8	5.0	**c** 10.9	4.0	**o** 12.3	3.8	**t** 7.9	4.8	**h** 11.1	5.4	**e** 11.8	14.8

69.5	35.0	69.5

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	PLOT SCALE = 20.0000 ' / in.	DRAWN -	REVISED -			6584	105; (72-7HB)BY	PEORIA	487	243
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		DATE -	REVISED -				ILLINOIS FED. AID PROJECT			

12.0" Radius, 2.0" Border, White on Green;
"SOUTH" E Mod 2K; "TO" E Mod 2K; "NEXT LEFT" E Mod 2K;
Table of widths and spaces.

17.7	36.0	12.0	S 12.2	2.8	O 10.1	2.9	U 9.7	2.1	T 8.9	2.2	H 9.7	17.7

11.9	T 7.4	1.4	O 8.4	10.0	36.0	12.0	45.0	11.9

23.2	N 9.7	3.4	E 8.9	1.7	X 10.4	1.3	T 8.9	12.0	L 8.9	1.9	E 8.9	2.5	F 8.9	1.3	T 8.9	23.2

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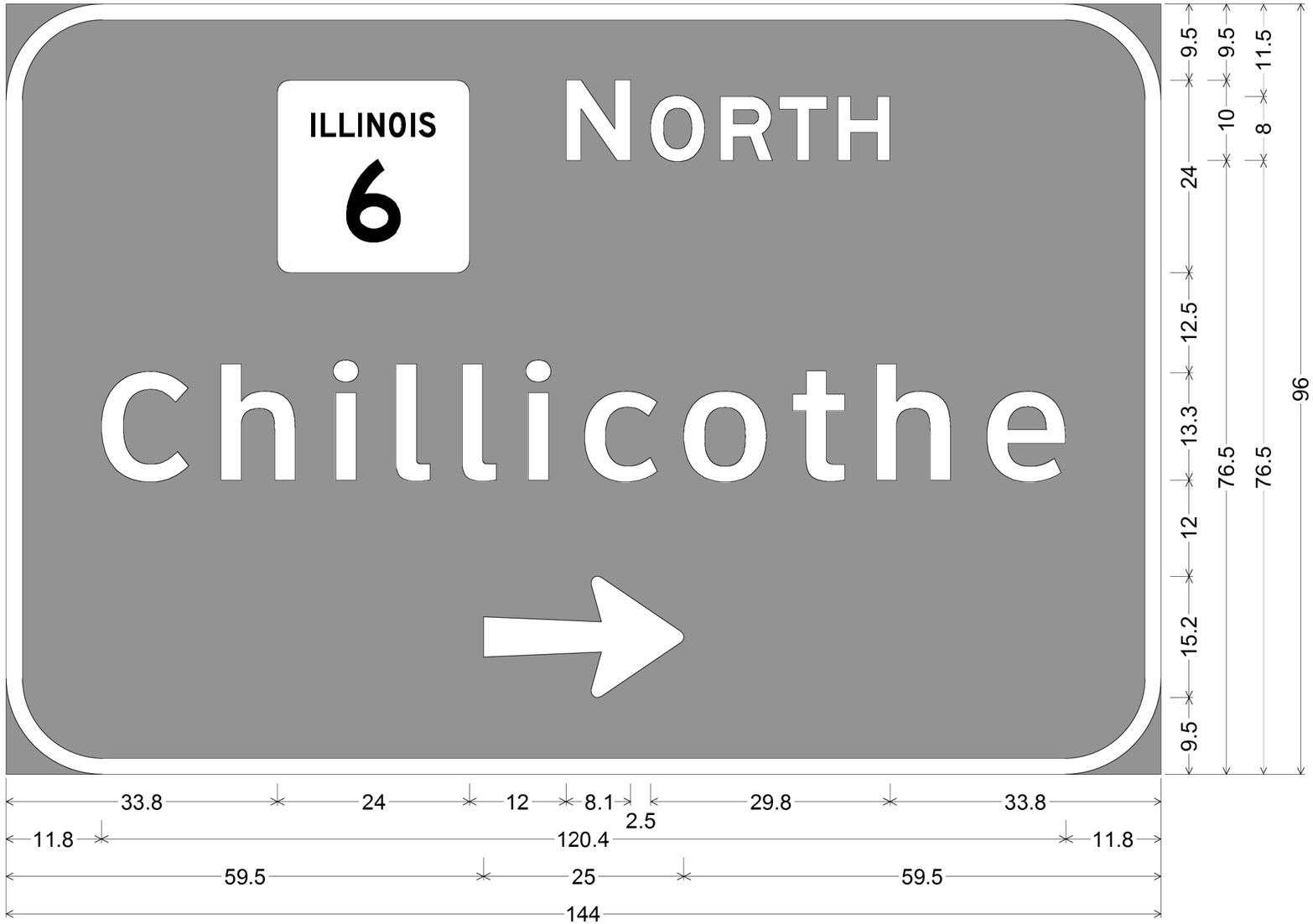
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
SIGN PANEL DETAIL

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	244
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



12.0" Radius, 2.0" Border, White on Green;
“N ORTH” E Mod 2K; “Chillicothe” ClearviewHwy-5-W; Arrow 80 - 25.0" 0°;
Table of widths and spaces.

33.8	24.0	12.0	N 8.1	2.5	O 6.7	1.9	R 6.5	0.9	T 5.9	1.4	H 6.5	33.8

11.8	C 10.9	4.1	h 9.2	4.8	i 3.1	4.8	l 4.2	4.0	l 4.2	3.7	i 3.2	4.2	c 9.0	3.3	o 10.4	3.1	t 6.6	4.0	h 9.2	4.6	e 9.8	11.8

59.5	25.0	59.5

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		DRAWN -	REVISED -			6584	105; (72-7HB)BY	PEORIA	487	245
Default	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -			6585		CONTRACT NO. 68683		
	PLOT DATE = 1/31/2014 1:39:58 PM	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

12.0" Radius, 2.0" Border, White on Green;
“EXIT” E Mod 2K; “5” E Mod 2K;
12.0" Radius, 2.0" Border, White on Green;
“Allen Road” ClearviewHwy-5-W; Arrow 160 - 35.0" 45°;
Table of widths and spaces.

	E		**X**		**I**		**T**		**5**	
99.1	7.3	1.4	8.7	2.1	2.0	1.9	7.4	15.0	12.1	17.0

	A		**l**		**l**		**e**		**n**		**R**		**o**		**a**		**d**	
13.3	15.0	4.6	5.0	4.8	5.1	4.1	11.8	5.4	11.1	18.9	12.0	4.8	12.4	4.4	12.0	4.4	11.6	13.3

73.2	27.6	73.2

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S:\GEN\DRAFT\STD&PLNS\SQUAD3\Allen Rd\Final Sheet Revisions\Revised Sheets.dgn		DRAWN -	REVISED -			6584	105; (72-7HB)BY	PEORIA	487	246
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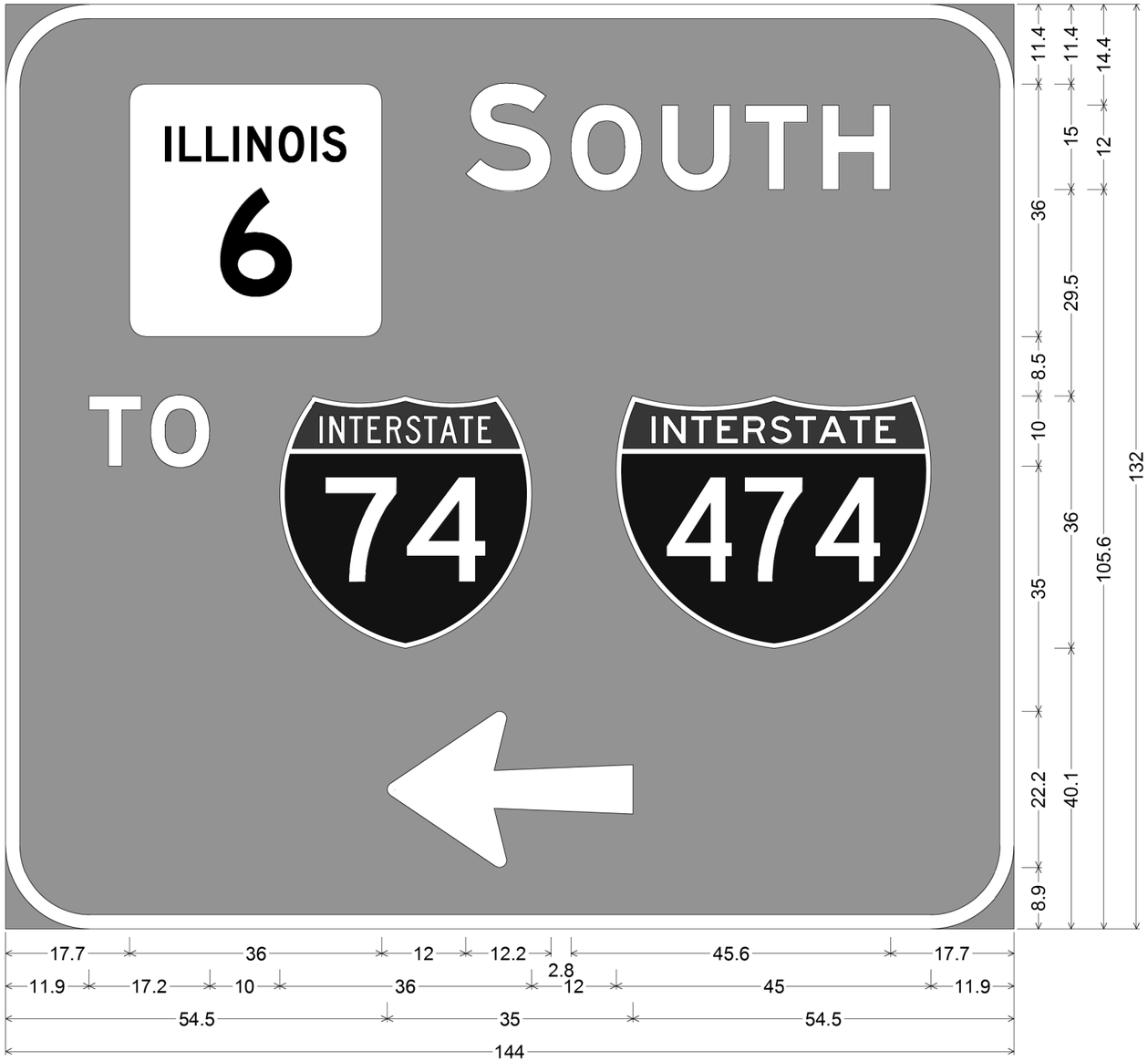

12.0" Radius, 2.0" Border, White on Green;
"SOUTH" E Mod 2K; "TO" E Mod 2K; Arrow 160 - 35.0" 180°;
Table of widths and spaces.

17.7	36.0	12.0	S 12.2	2.8	O 10.1	2.9	U 9.7	2.1	T 8.9	2.2	H 9.7	17.7

11.9	T 7.4	1.4	O 8.4	10.0	36.0	12.0	45.0	11.9

54.5	35.0	54.5

FILE NAME =	USER NAME = aubreygs	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALLEN ROAD IMPROVEMENTS SIGN PANEL DETAIL	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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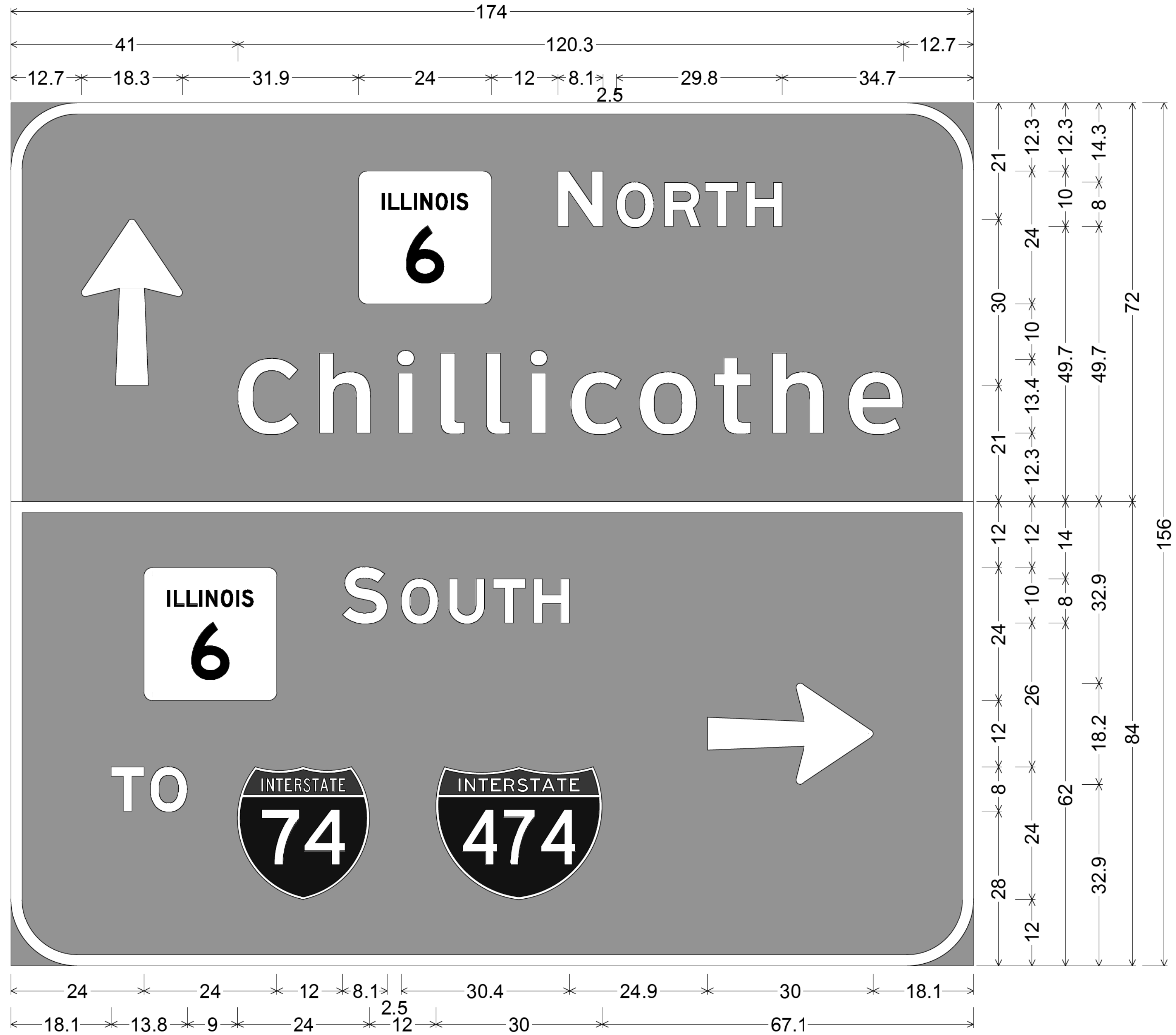

12.0" Radius, 2.0" Border, White on Green;

Arrow 133 - 30.0" 90°; "N ORTH" E Mod 2K; "Chillicothe" ClearviewHwy-5-W;

12.0" Radius, 2.0" Border, White on Green;

"S OUTH" E Mod 2K; "TO" E Mod 2K; Arrow 133 - 30.0" 0°;

Table of widths and spaces.

	⇧		6		N		O		R		T		H	
12.7	18.3	31.9	24.0	12.0	8.1	2.5	6.7	1.9	6.5	0.9	5.9	1.5	6.4	34.7

	C		h		i		l		l		i		c		o		t		h		e
41.0	10.8	4.1	9.3	4.7	3.2	4.7	4.2	4.0	4.2	3.7	3.2	4.2	9.1	3.3	10.3	3.2	6.5	4.0	9.3	4.5	9.8

(last cell of the row above: 12.7)

	6		S		O		U		T		H		⇨	
24.0	24.0	12.0	8.1	2.5	6.7	1.9	6.5	1.5	5.9	1.4	6.5	24.9	30.0	18.1

	T		O		74		474	
18.1	5.9	1.2	6.7	9.0	24.0	12.0	30.0	67.1

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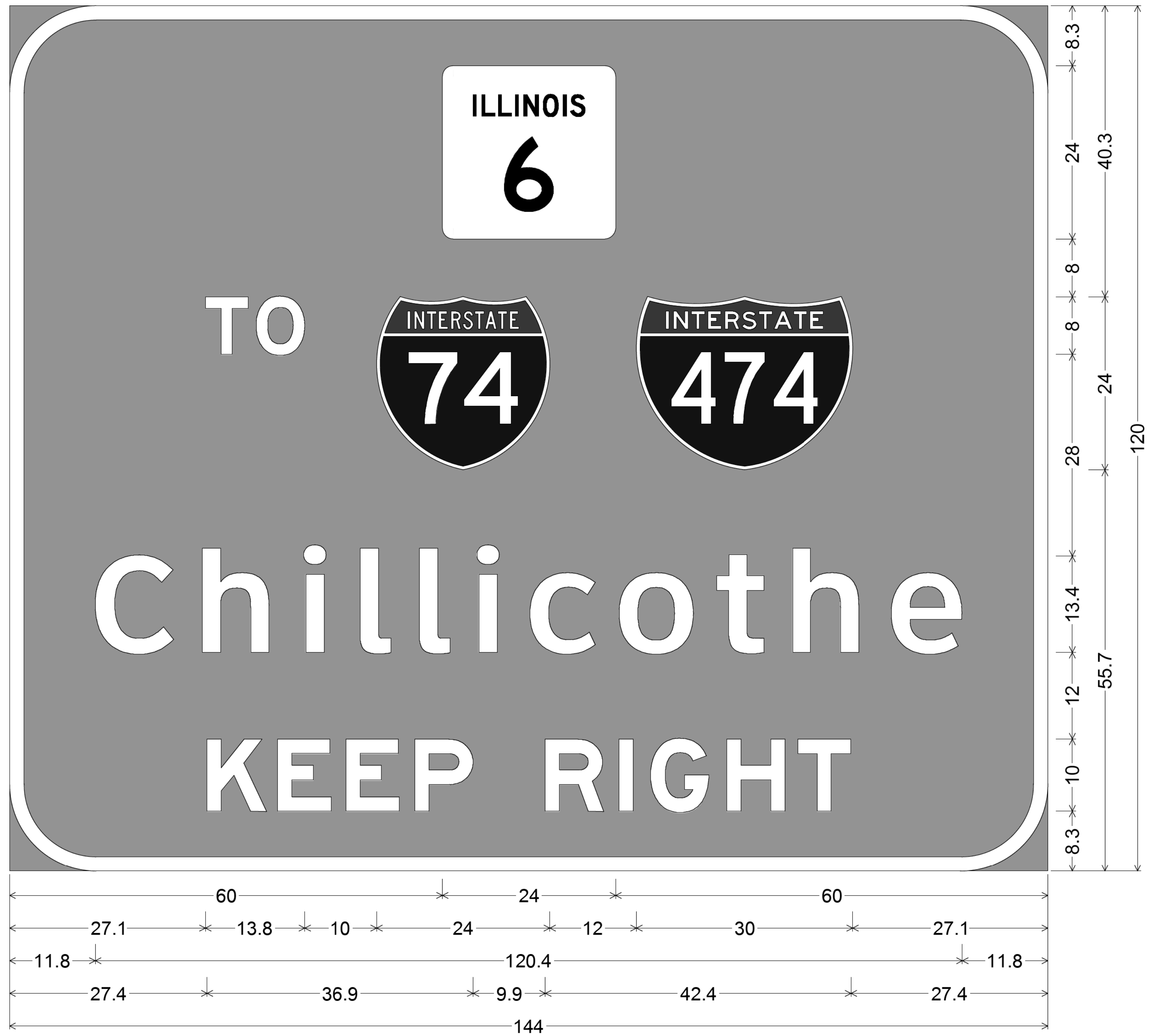
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
SIGN PANEL DETAIL

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	248
6585		CONTRACT NO. 68683		
		ILLINOIS FED. AID PROJECT		



12.0" Radius, 2.0" Border, White on Green;
“TO” E Mod 2K; “Chillicothe” ClearviewHwy-5-W; “KEEP RIGHT” E Mod 2K;
Table of widths and spaces.

	ILLINOIS 6	
60.0	24.0	60.0

	T		O		I-74		I-474	
27.1	5.9	1.2	6.7	10.0	24.0	12.0	30.0	27.1

	C		h		i		l		l		i		c		o		t		h		e	
11.8	10.9	4.1	9.2	4.8	3.1	4.8	4.2	4.0	4.2	3.7	3.2	4.2	9.0	3.3	10.4	3.1	6.6	4.0	9.2	4.6	9.8	11.8

	K		E		E		P		R		I		G		H		T	
27.4	8.2	1.6	7.4	2.1	7.4	2.0	8.1	10.0	8.1	2.1	2.0	2.4	8.1	2.4	8.1	1.8	7.4	27.4

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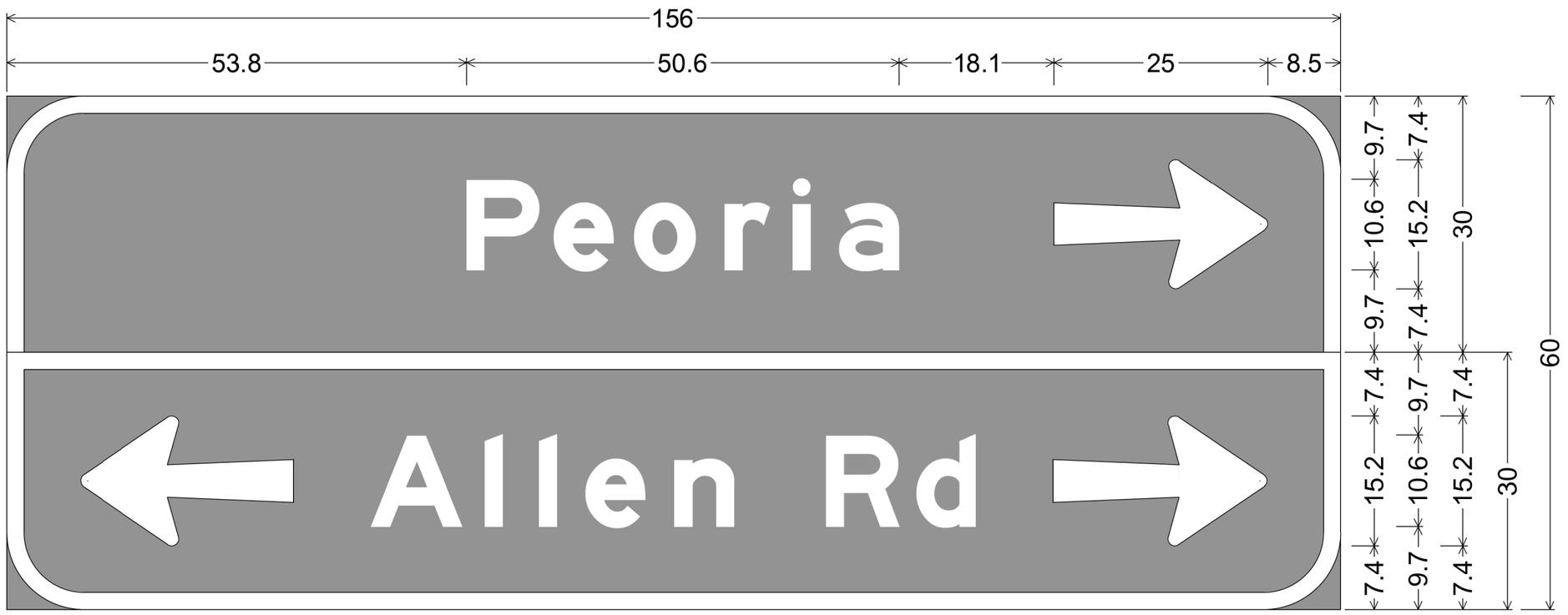
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
SIGN PANEL DETAIL

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	249
6585		CONTRACT NO. 68683		
	ILLINOIS	FED. AID PROJECT		



9.0" Radius, 2.0" Border, White on Green;
“Peoria” E Mod 2K; Arrow 80 - 25.0" 0°;
9.0" Radius, 2.0" Border, White on Green;
Arrow 80 - 25.0" 180°; “Allen Rd” E Mod 2K; Arrow 80 - 25.0" 0°;
Table of letter and object lefts.

P	**e**	**o**	**r**	**i**	**a**	⇨
53.8	64.0	73.4	84.0	91.9	97.3	122.5

⇦	**A**	**l**	**l**	**e**	**n**	**R**	**d**	⇨
8.6	42.6	55.9	62.3	67.8	78.1	95.8	106.4	122.4

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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
SIGN PANEL DETAIL

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	250
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

ELECTRICAL GENERAL NOTES

1. ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" SINGLE LED LENSES.

2. THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER AND MAINTAIN A 16 FT. MINIMUM CLEARANCE FROM THE HIGHEST POINT OF THE ROADWAY.

3. THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNAL HEADS SHALL BE MOUNTED DIRECTLY OVER THE CENTER OF THEIR RESPECTIVE LANES.

4. ALL TRAFFIC SIGNAL HEAD BRACKETS ARE TO BE ALUMINUM WITH A NATURAL FINISH.

5. ALL TRAFFIC SIGNAL POSTS ARE TO BE GALVANIZED STEEL.

6. THE #18 3-PAIR TWISTED/SHIELDED CABLE SHALL HAVE THE SAME SLACK AS OTHER SIGNAL CABLE AND WILL BE MEASURED FOR PAYMENT.

7. ALL DETECTOR LOOPS SHALL UTILIZE A SEPARATE PAIR OF LEAD-INS.

8. A TYPE II SPLICE SHALL BE USED FOR ALL DETECTOR LEAD-INS.

9. THE PROPOSED DETECTOR LOOPS SHALL BE CUT IN THE EXISTING PAVEMENT, MILLED SURFACE, OR BINDER COURSE BEFORE THE FINAL OVERLAY. THE RISER AREA SHALL BE CHIPPED OUT AND FILLED WITH EPOXY. THIS WORK SHALL BE INCLUDED IN PRICE FOR DETECTOR LOOPS.

10. ALL DETECTOR LOOPS SHALL BE INSTALLED IN THE CENTER OF THEIR RESPECTIVE TRAVEL LANES. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR VERIFICATION OF DETECTOR PLACEMENT BEFORE INSTALLATION.

11. PROPOSED HANDHOLES SHALL BE CAST IN PLACE CONCRETE HANDHOLES.

12. THE HANDHOLE SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.

13. THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY TRAFFIC SIGNAL COMPONENTS.

14. COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC UNDERGROUND CONDUIT.

15. THE TRAFFIC SIGNAL CONTROLLER SHALL BE ORIENTED SO THAT THE DOOR IS FACING AWAY FROM TRAFFIC.

16. THE DOUBLE HANDHOLE SHALL NOT BE USED IN LIEU OF THE CONTROLLER FOUNDATION PAD.

17. THE LOCATIONS FOR HANDHOLES, TRAFFIC SIGNAL POST FOUNDATIONS, AND MAST ARM FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERFICATION BEFORE INSTALLATION.

18. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATION.

19. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

20. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.

21. ALL TRAFFIC SIGNAL MAST ARMS, POSTS, HANDHOLE LIDS AND RINGS, HANDHOLE FRAMES, CONTROLLER CABINETS, AND PHOTOCELL RELAYS SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS.

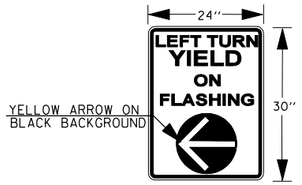
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING DEPARTMENT LIGHTING, ITS, AND TRAFFIC SIGNAL FACILITIES. THIS WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE.

23. ALL SIGNS LOCATED ON EXISTING MAST ARMS SHALL BE REINSTALLED ON THE CORRESPONDING RELOCATED OR NEW MAST ARMS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF RELOCATING THE EXISTING MAST ARMS OR INSTALLING THE NEW MAST ARMS.

24. PROPOSED CONDUIT SHALL BE COUPLED TO EXISTING CONDUITS OUTSIDE OF HANDHOLES AND FOUNDATIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED CONDUITS.

25. EXISTING TRAFFIC SIGNAL AND PEDESTRIAN HEADS SHALL BE RE-ALIGNED AS REQUIRED FOR THE PROPOSED INTERSECTION GEOMETRICS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED SIGNAL HEADS.

26. ALL WORK REQUIRED TO CONNECT EXISTING SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, AND PEDESTRIAN PUSH BUTTONS TO PROPOSED ELECTRICAL CABLE SHALL BE INCLUDED IN THE COST OF THE ELECTRIC CABLE.



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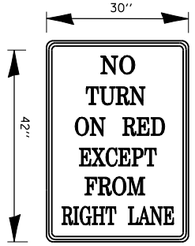
FURNISH & INSTALL FOUR (4) EACH SIGN

SIGN BACKGROUND : WHITE
SIGN LETTERING: BLACK

DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)



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FURNISH & INSTALL ONE (1) EACH SIGN

SIGN BACKGROUND : WHITE
SIGN LETTERING: BLACK

DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)

SUMMARY OF QUANTITIES

ITEM	UNIT	TOTAL QUANTITIES	IL 6 NB RAMPS	IL 6 SB RAMPS	ALLEN ROAD AND VAN WINKLE WAY
SIGN PANEL - TYPE 1	SQ FT	28.75	13.75	5	10
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	5,477	1,069	1,114	3,294
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	794	226	393	175
UNDERGROUND CONDUIT, PVC, 3 1/2" DIA.	FOOT	574	327	92	155
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	21	6	8	7
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1		1	
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	4,909	3,204	902	803
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	3,390	2,444	946	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	497			497
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5,113	1,450	1,544	2,119
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,310	662	462	1,186
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	4,823	1,641	1,381	1,801
TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	2	1	1	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1	1		
PEDESTRIAN PUSH-BUTTON POST, TYPE I	EACH	3			3
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1		1	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1	1		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 60 FT.	EACH	1		1	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 60 FT. AND 36 FT.	EACH	1	1		
CONCRETE FOUNDATION, TYPE A	FOOT	9	6	3	
CONCRETE FOUNDATION, TYPE D	FOOT	3.5		3.5	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54	13	11	30
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42	21	21	
DRILL EXISTING HANDHOLE	EACH	10	3		7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12	5	5	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7	3	4	
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2	1	1	
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2	1	1	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTIC	EACH	19	8	9	2
INDUCTIVE LOOP DETECTOR	EACH	25	8	7	10
DETECTOR LOOP, TYPE I	FOOT	2,862	894	680	1,288
RELOCATE EXISTING SIGNAL HEAD	EACH	3			3
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	5			5
RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER	EACH	1		1	
RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	2			2
REBUILD EXISTING SIGNAL HEAD, LED	EACH	4			4
MODIFY EXISTING CONTROLLER CABINET	EACH	3	1	1	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	1	1	
REMOVE EXISTING HANDHOLE	EACH	10	4	5	1
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1	
REMOVE EXISTING CONCRETE FOUNDATION	EACH	13	5	6	2
TRAFFIC SIGNAL BATTERY BACKUP SYSTEM	EACH	2	1	1	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
TRAFFIC SIGNAL PLAN
GENERAL NOTES, DETAILS, AND SUMMARY OF QUANTITIES

SCALE: | SHEET 1 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	251
		CONTRACT NO. 68683		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF POST & MAST ARM ASSEMBLIES
IL 6 NB RAMPS & ALLEN ROAD

REF.	LOCATION	TYPE	LENGTH	FOUNDATION DEPTH	STATION	OFFSET
MA-1	NORTHEAST QUADRANT	S C MAA&P DMA	60.0 FT.	21.0 FT.	52+09.51	59.00' RT
	NORTHEAST QUADRANT	S C MAA&P DMA	36.0 FT.			
MA-2	SOUTHWEST QUADRANT	STL COMB MAA&P	48.0 FT.	13.0 FT.	50+45.84	61.94' LT
TSP-1	SOUTHEAST QUADRANT	TS POST GALVS 18	18.0 FT.	3.0 FT.	50+01.94	42.18' RT
TSP-2	NORTHWEST QUADRANT	TS POST GALVS 15	15.0 FT.	3.0 FT.	52+54.13	59.44' LT

SCHEDULE OF SIGNAL HEADS
IL 6 NB RAMPS & ALLEN ROAD

QTY.	UNIT	ITEM	LOCATION
3	EACH	SH, LED, 1F, 3-SEC, BM	4,6,9
5	EACH	SH, LED, 1F, 3-SEC, MAM	2,3,5,7,8
1	EACH	SH, LED, 1F, 4-SEC, BM	10
1	EACH	SH, LED, 1F, 4-SEC, MAM	1
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED	1,2,3,5,6,7,8,10

SCHEDULE OF HANDHOLE QUANTITIES
IL 6 NB RAMPS & ALLEN ROAD

REF.	LOCATION	TYPE	STATION	OFFSET
HH-2	NORTHEAST QUADRANT	STANDARD	52+09.30	49.66' RT
HH-5	SOUTHWEST QUADRANT	STANDARD	50+28.75	52.03' LT
HH-6	WEST ISLAND	STANDARD	51+15.68	40.71' LT
HH-7	NORTHWEST QUADRANT	STANDARD	52+59.07	61.79' LT
HH-8	SOUTHBOUND ADV. LOOPS	STANDARD	55+63.91	40.45' LT
HH-9	SOUTH OF BRIDGE (INTERCONNECT)	STANDARD	56+77.77	39.34' RT

DETECTOR LOOP AND DETECTOR ASSIGNMENT SCHEDULE
IL 6 NB RAMPS & ALLEN ROAD

DETECTOR LOOP	TYPE	DETECTOR LOOP QTY.	DETECTOR LEAD-IN QTY.	ASSIGNED PHASE	CHANNELS REQUIRED
D-2A	6' X 6'	24	25	2	1
D-2B	6' X 6'	24	14	2	1
D-5	6' X 50' QUAD	162	26	5	1
D-6A	6' X 6'	24	14	6	1
D-6B	6' X 6'	24	3	6	1
D-7A	6' X 50' QUAD	162	15	5,7	1
D-7B	6' X 50' QUAD	162	14	5,7	1
D-7C	6' X 50' QUAD	162	39	7	1
TOTAL:		**744**	**150**		**8**

SCHEDULE OF POST & MAST ARM ASSEMBLIES
IL 6 SB RAMPS & ALLEN ROAD

REF.	LOCATION	TYPE	LENGTH	FOUNDATION DEPTH	STATION	OFFSET
MA-1	NORTHEAST QUADRANT	S C MAA&P DMA	60.0 FT.	21.0 FT.	66+24.94	52.80' RT
	NORTHEAST QUADRANT	S C MAA&P DMA	28.0 FT.			
MA-2	SOUTHWEST QUADRANT	STL COMB MAA&P	38.0 FT.	11.0 FT.	64+48.05	58.63' LT
TSP-2	NORTHWEST QUADRANT	TS POST GALVS 15	15.0 FT.	3.0 FT.	66+26.45	46.70' LT

SCHEDULE OF SIGNAL HEADS
IL 6 SB RAMPS & ALLEN ROAD

QTY.	UNIT	ITEM	LOCATION
4	EACH	SH, LED, 1F, 3-SEC, BM	4,6,9,11
5	EACH	SH, LED, 1F, 3-SEC, MAM	2,3,5,7,8
1	EACH	SH, LED, 1F, 4-SEC, BM	10
1	EACH	SH, LED, 1F, 4-SEC, MAM	1
9	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED	1,2,3,5,6,7,8,10,11

SCHEDULE OF HANDHOLE QUANTITIES
IL 6 SB RAMPS & ALLEN ROAD

REF.	LOCATION	TYPE	STATION	OFFSET
DHH-1	SOUTHEAST QUADRANT	DOUBLE	65+21.56	46.90' RT
HH-2	NORTHEAST QUADRANT	STANDARD	66+15.57	46.35' RT
HH-3	SOUTHEAST QUADRANT	STANDARD	64+18.98	52.27' RT
HH-4	NORTHBOUND ADV. LOOPS	STANDARD	61+62.89	43.21' RT
HH-5	SOUTHWEST QUADRANT	STANDARD	64+40.00	54.76' LT
HH-6	SOUTHWEST ISLAND	STANDARD	65+22.14	49.59' LT
HH-7	NORTHWEST ISLAND	STANDARD	66+23.93	50.66' LT
HH-8	SOUTHBOUND ADV. LOOPS	STANDARD	69+59.02	46.04' LT
HH-9	NORTH OF BRIDGE (INTERCONNECT)	STANDARD	60+24.61	38.18' RT

DETECTOR LOOP AND DETECTOR ASSIGNMENT SCHEDULE
IL 6 SB RAMPS & ALLEN ROAD

DETECTOR LOOP	TYPE	DETECTOR LOOP QTY.	DETECTOR LEAD-IN QTY.	ASSIGNED PHASE	CHANNELS REQUIRED
D-2A	6' X 6'	24	14	2	1
D-2B	6' X 6'	24	3	2	1
D-5	6' X 50' QUAD	162	39	5	1
D-7A	6' X 50' QUAD	162	10	7	1
D-7B	6' X 50' QUAD	162	6	5,7	1
D-6A	6' X 6'	24	19	6	1
D-6B	6' X 6'	24	7	6	1
TOTAL:		**582**	**98**		**7**

SCHEDULE OF POST & MAST ARM ASSEMBLIES
WEST VAN WINKLE WAY & ALLEN ROAD

REF.	LOCATION	TYPE	LENGTH	FOUNDATION DEPTH	STATION	OFFSET
REL MA-2	SOUTHEAST QUADRANT	RELOC EX MAA & POLE	50.0 FT.	15.0 FT.	72+48.44	75.65' RT
REL MA-3	SOUTHWEST QUADRANT	RELOC EX MAA & POLE	55.0 FT.	15.0 FT.	72+20.00	51.00'LT

SCHEDULE OF SIGNAL HEADS
WEST VAN WINKLE & ALLEN ROAD

QTY.	UNIT	ITEM	LOCATION
2	EACH	SH, LED, 1F, 3-SEC, MAM	2,8
2	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED	2,8
3	EACH	RELOC EX SIG HEAD	3,4,9
4	EACH	REBUILD EX SIG HD LED	1,5,7,11
5	EACH	RELOC EX PED PUSH-BUT	MA-1, 3, 4

SCHEDULE OF HANDHOLE QUANTITIES
WEST VAN WINKLE WAY & ALLEN ROAD

REF.	LOCATION	TYPE	STATION	OFFSET
HH-3	NORTHBOUD ADV. LOOPS	STANDARD	69+07.69	51.94' RT
HH-4	SOUTHWEST QUADRANT	STANDARD	72+48.19	65.97' LT
HH-6	SOUTHBOUND ADV. LOOPS	STANDARD	76+83.31	39.55' LT

DETECTOR LOOP AND DETECTOR ASSIGNMENT SCHEDULE
WEST VAN WINKLE WAY & ALLEN ROAD

DETECTOR LOOP	TYPE	DETECTOR LOOP QTY.	DETECTOR LEAD-IN QTY.	ASSIGNED PHASE	CHANNELS REQUIRED
D-1	6' X 50' QUAD	162	36	1	1
D-2A	6' X 6'	24	21	2	1
D-2B	6' X 6'	24	10	2	1
D-4A	6' X 50' QUAD	162	32	4	1
D-4B	6' X 50' QUAD	162	20	4	1
D-5	6' X 50' QUAD	162	46	5	1
D8-A	6' X 50' QUAD	162	10	8	1
D8-B	6' X 50' QUAD	162	26	8	1
D-6A	6' X 6'	24	15	6	1
D-6B	6' X 6'	24	4	6	1
TOTAL:		**1068**	**220**		**10**

Kaskaskia Engineering Group, LLC

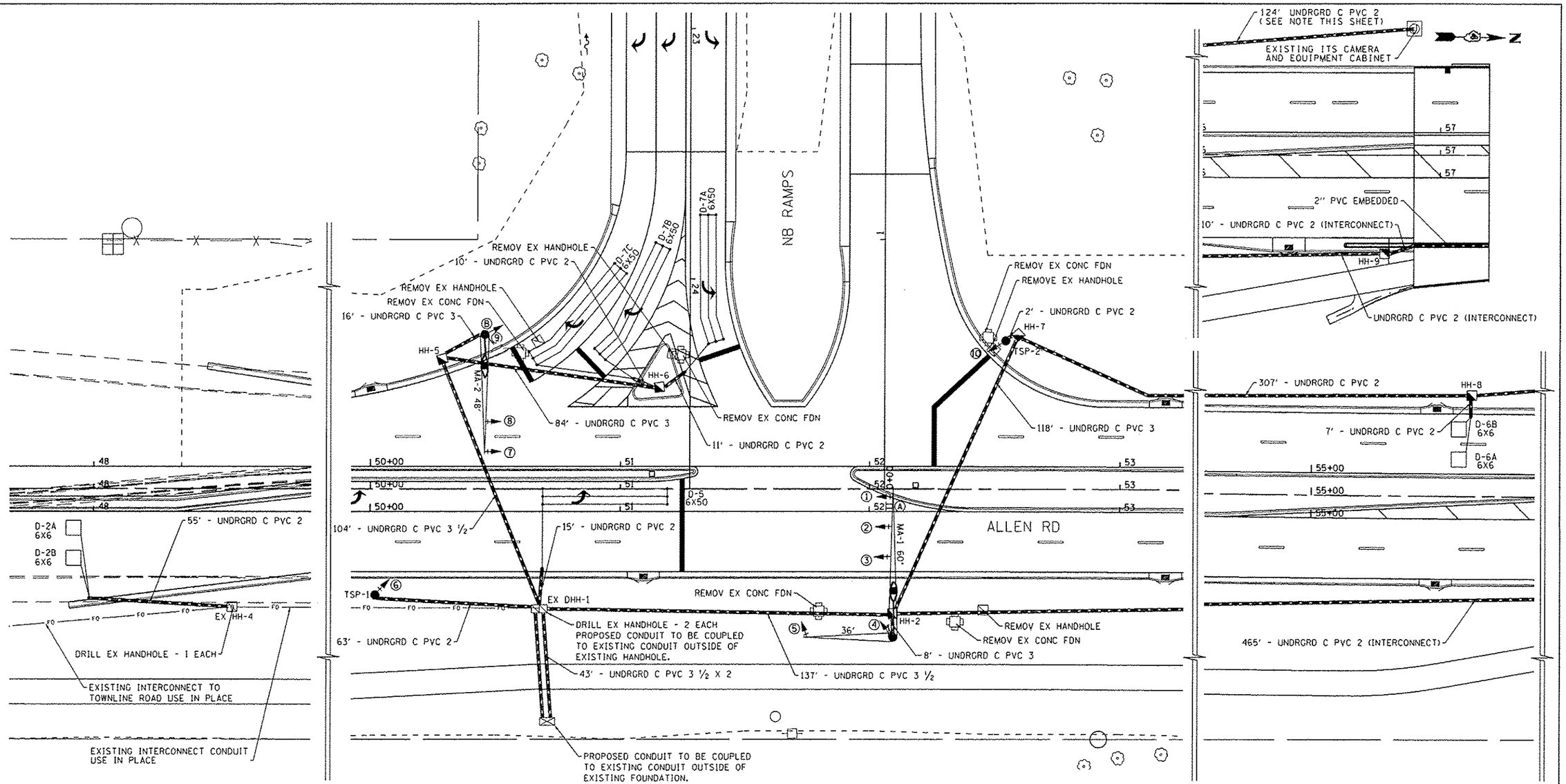
FILE NAME = ...\D468683-sht-tsl.dgn	USER NAME = IDOT	DESIGNED - LDC	REVISED -
		DRAWN - SMS	REVISED -
$MODELNAME$	PLOT SCALE = 40.0000 ' / IN.	CHECKED - GEB	REVISED -
	PLOT DATE = 1/27/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
TRAFFIC SIGNAL PLAN
SCHEDULE OF QUANTITIES

SCALE: 1"=20' | SHEET 2 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	252
		CONTRACT NO. 68683		
	ILLINOIS	FED. AID PROJECT		



TRAFFIC SIGNAL LEGEND

- PROPOSED SIGNAL HEAD WITH BACKPLATE
- PROPOSED SIGNAL HEAD WITHOUT BACKPLATE
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED CONDUIT
- PROPOSED MAST ARM (LENGTH SPECIFIED)
- PROPOSED TRAFFIC SIGNAL POST
- PROPOSED PEDESTRIAN PUSH-BUTTON POST
- PROPOSED LUMINAIRE
- 6' X 50' PROPOSED DETECTOR LOOP
- 6' X 6' PROPOSED DETECTOR LOOP
- EXISTING SIGNAL HEAD WITH BACKPLATE
- EXISTING SIGNAL HEAD WITHOUT BACKPLATE
- EXISTING DOUBLE HANDHOLE
- EXISTING CONTROLLER
- EXISTING ELECTRICAL SERVICE POLE
- EXISTING HANDHOLE
- EXISTING TRAFFIC SIGNAL POST
- EXISTING MAST ARM

NOTE: INSTALL 3 - EC C XLP USE IC 6 WIRES AND 1 - FOCC62.5/125 MM12SM12 WIRE FROM EXISTING ITS CAMERA AND EQUIPMENT CABINET TO TRAFFIC SIGNAL CONTROLLER FOR NB RAMPS.

Kaskaskia Engineering Group, LLC

FILE NAME = ...\D468683-sht-tsl.dgn	USER NAME = IDOT	DESIGNED - LDC	REVISED -
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$MODELNAME$	PLOT DATE = 1/27/2014	DATE -	REVISED -

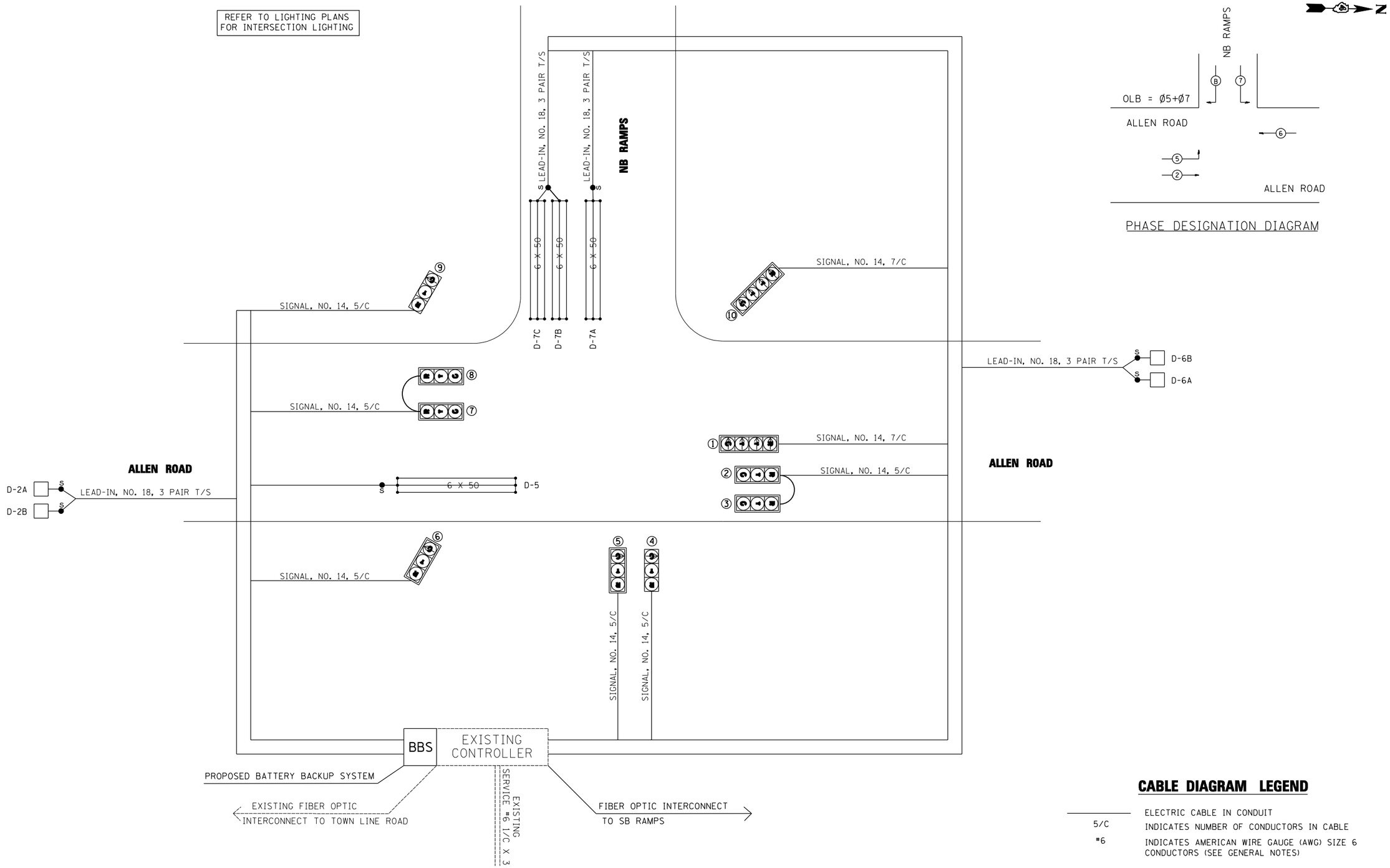
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
TRAFFIC SIGNAL PLAN
IL 6 NB RAMPS & ALLEN ROAD

SCALE: 1"=20' | SHEET 3 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	253
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

REFER TO LIGHTING PLANS
FOR INTERSECTION LIGHTING



PHASE DESIGNATION DIAGRAM

CABLE DIAGRAM LEGEND

———	ELECTRIC CABLE IN CONDUIT
5/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
#6	INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)

Kaskaskia Engineering Group, LLC

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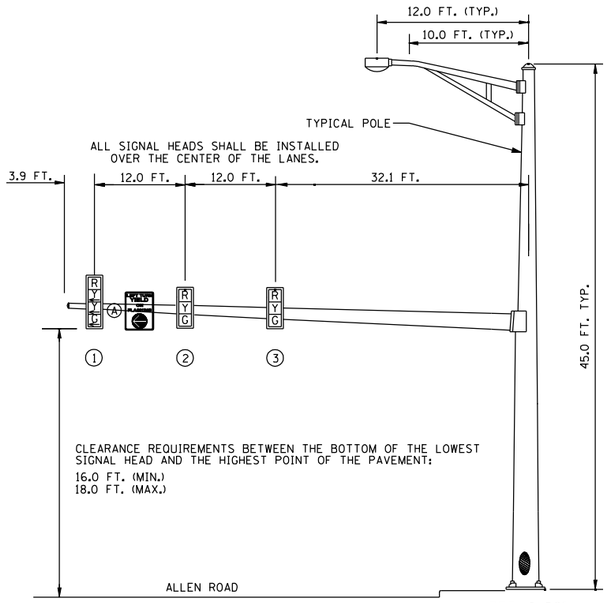
	PLOT DATE = 1/27/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

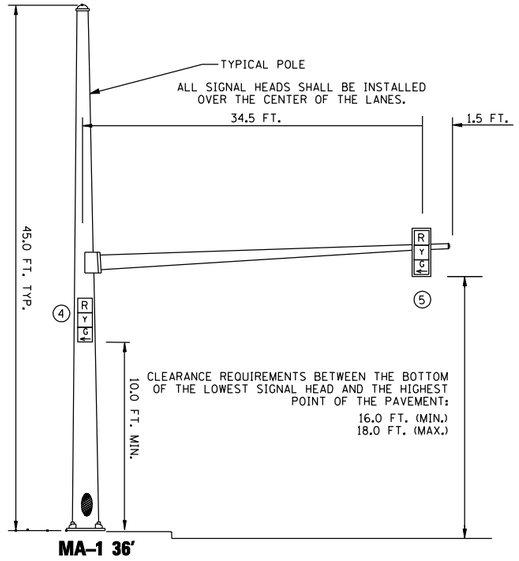
ALLEN ROAD IMPROVEMENTS
TRAFFIC SIGNAL CABLE AND PHASE DIAGRAMS
IL 6 NB RAMPS AND ALLEN ROAD

SCALE: | SHEET 4 OF 11 SHEETS | STA. | TO STA.

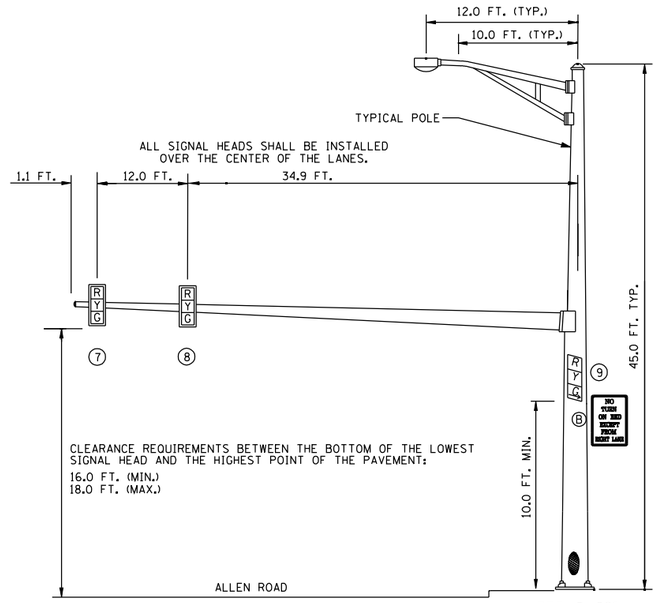
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	254
		CONTRACT NO. 68683		
	ILLINOIS	FED. AID PROJECT		



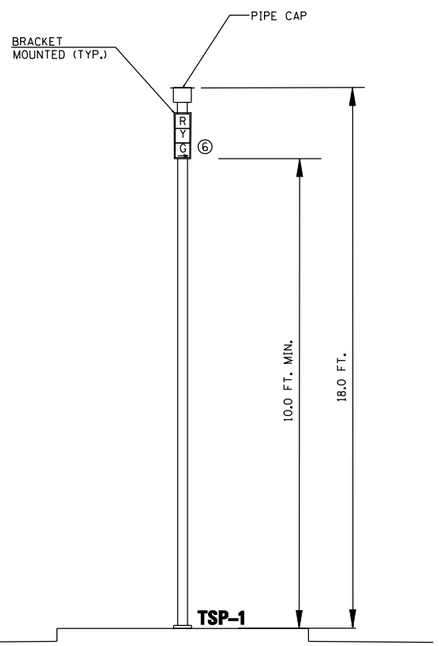
NORTHBOUND TRAFFIC SIGNAL
ALLEN ROAD AND NB RAMPS



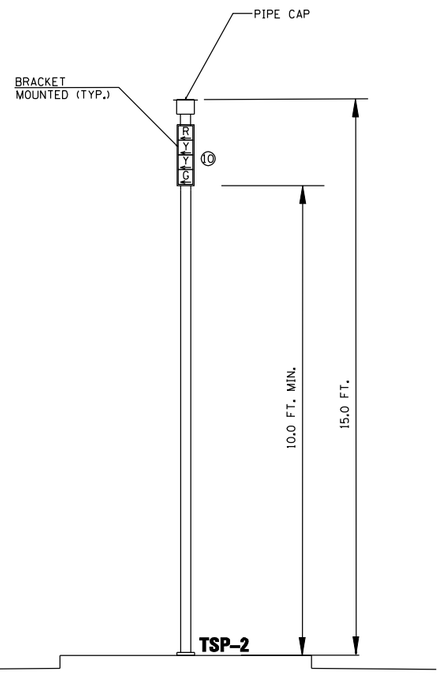
NB RAMP TRAFFIC SIGNAL
ALLEN ROAD AND NB RAMPS



SOUTHBOUND TRAFFIC SIGNAL
ALLEN ROAD AND NB RAMPS



NB RAMP TRAFFIC
ALLEN ROAD AND NB RAMPS



NORTHBOUND TRAFFIC
ALLEN ROAD AND NB RAMPS

Kaskaskia Engineering Group, LLC

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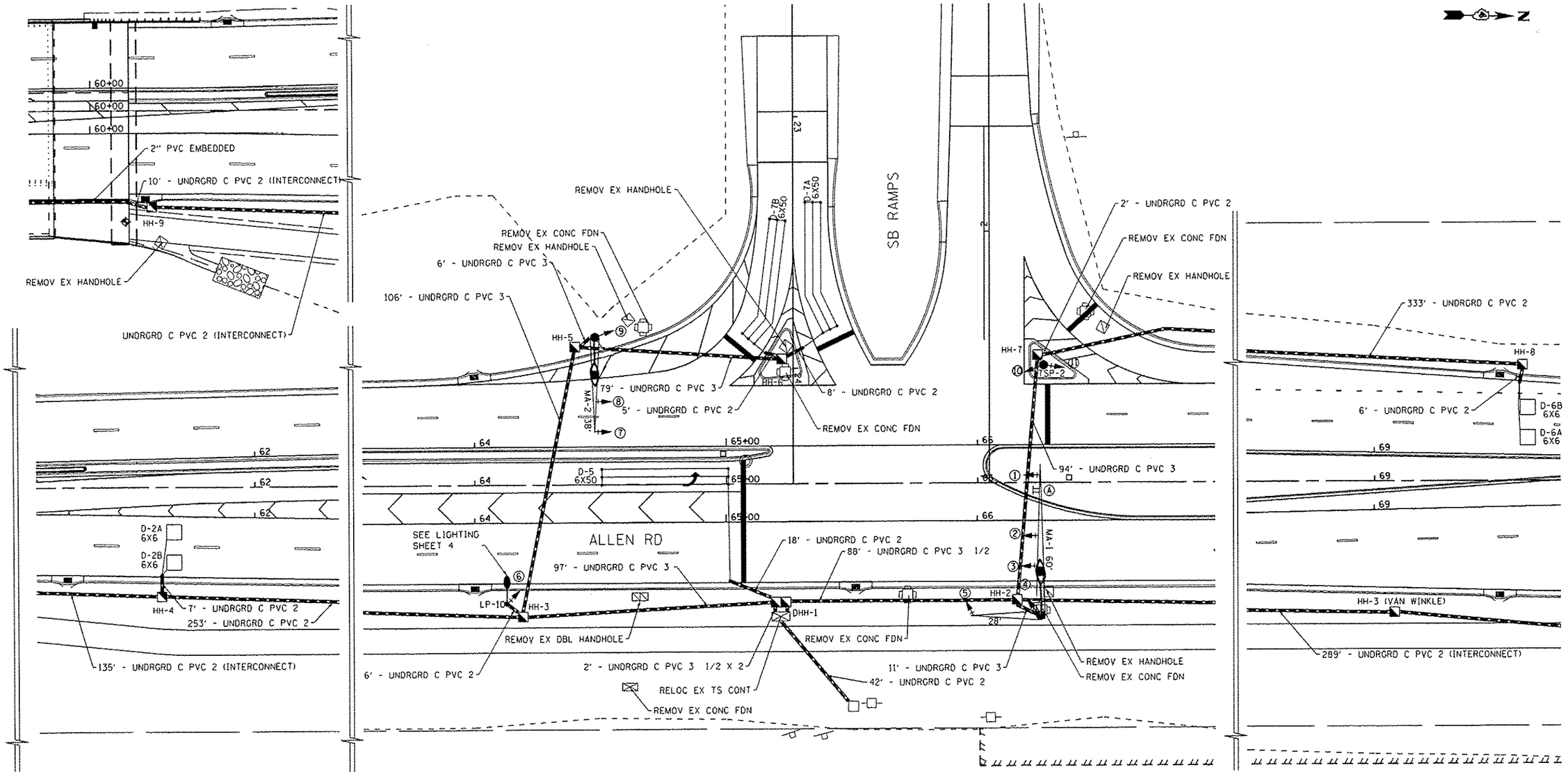
	PLOT DATE = 1/27/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
MAST ARM AND TRAFFIC SIGNAL POST DETAILS
IL 6 NB RAMPS & ALLEN ROAD

SCALE: | SHEET 5 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	255
		CONTRACT NO. 68683		
	ILLINOIS	FED. AID PROJECT		



TRAFFIC SIGNAL LEGEND

- PROPOSED SIGNAL HEAD WITH BACKPLATE
- PROPOSED SIGNAL HEAD WITHOUT BACKPLATE
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED CONDUIT
- PROPOSED MAST ARM (LENGTH SPECIFIED)
- PROPOSED TRAFFIC SIGNAL POST
- PROPOSED PEDESTRIAN PUSH-BUTTON POST
- PROPOSED LUMINAIRE
- 6' X 50' PROPOSED DETECTOR LOOP
- 6' X 6' PROPOSED DETECTOR LOOP
- EXISTING SIGNAL HEAD WITH BACKPLATE
- EXISTING SIGNAL HEAD WITHOUT BACKPLATE
- EXISTING DOUBLE HANDHOLE
- EXISTING CONTROLLER
- EXISTING ELECTRICAL SERVICE POLE
- EXISTING HANDHOLE
- EXISTING TRAFFIC SIGNAL POST
- EXISTING MAST ARM

Kaskaskia Engineering Group, LLC

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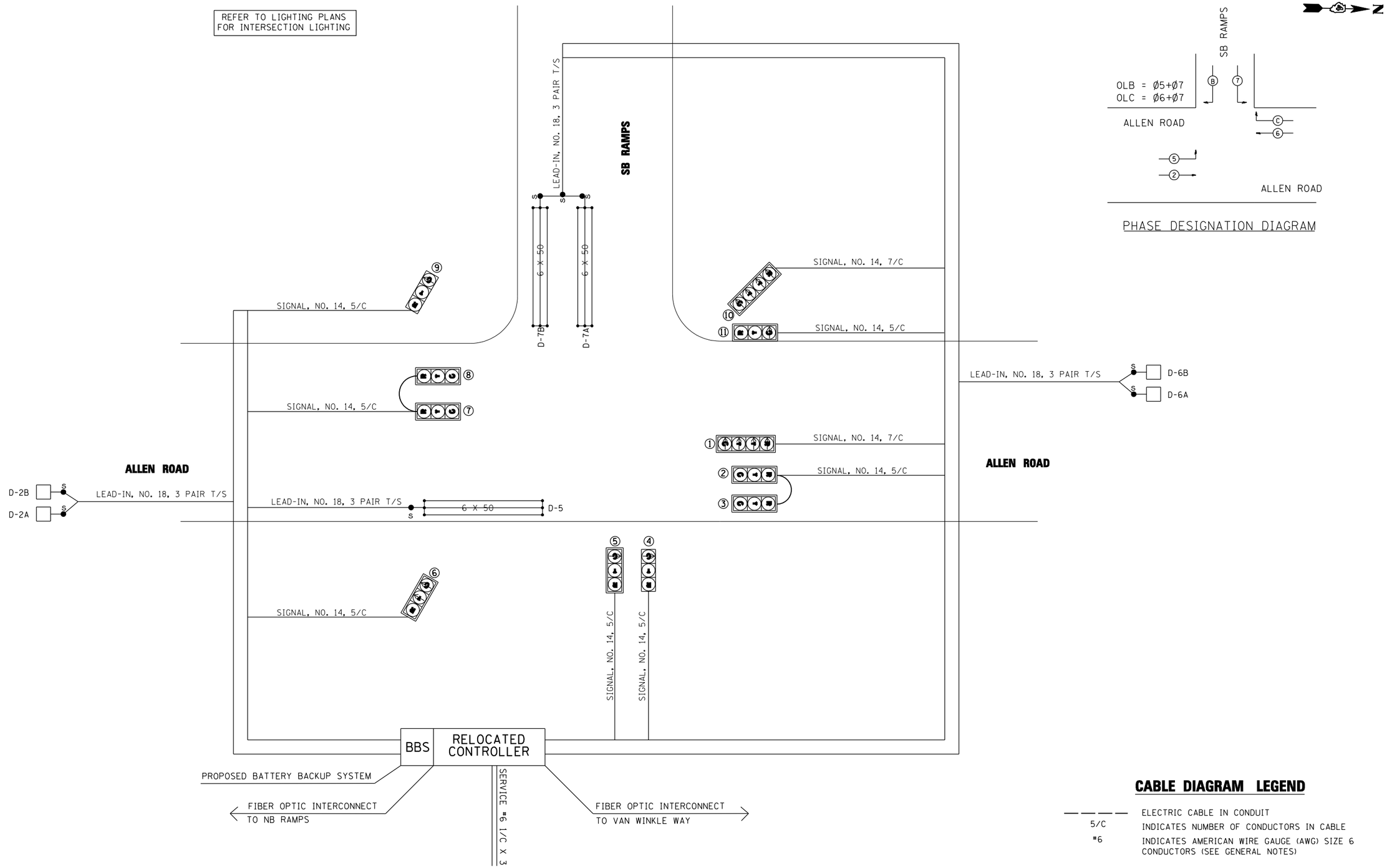
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
TRAFFIC SIGNAL PLAN
IL 6 SB RAMPS & ALLEN ROAD

SCALE: 1"=20' | SHEET 6 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	256
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

REFER TO LIGHTING PLANS
FOR INTERSECTION LIGHTING



PHASE DESIGNATION DIAGRAM

CABLE DIAGRAM LEGEND

————	ELECTRIC CABLE IN CONDUIT
5/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
#6	INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)

Kaskaskia Engineering Group, LLC

FILE NAME = ...\D468683-sht-ts2.dgn	USER NAME = IDOT	DESIGNED - LDC	REVISED -
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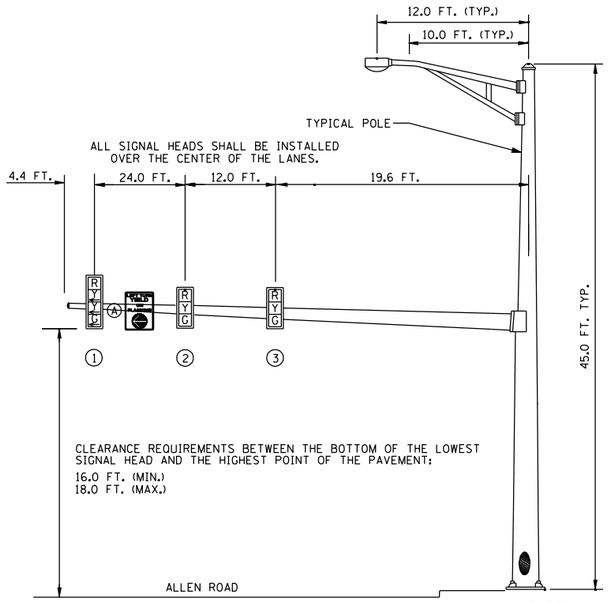
	PLOT DATE = 1/27/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

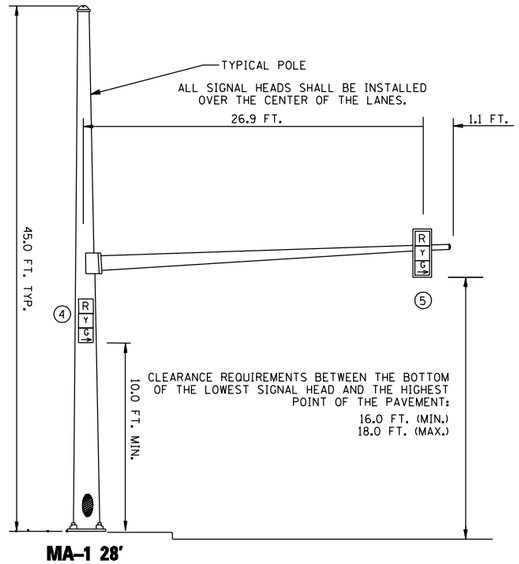
ALLEN ROAD IMPROVEMENTS
TRAFFIC SIGNAL CABLE AND PHASE DIAGRAMS
IL 6 SB RAMPS & ALLEN ROAD

SCALE: | SHEET 7 OF 11 SHEETS | STA. | TO STA.

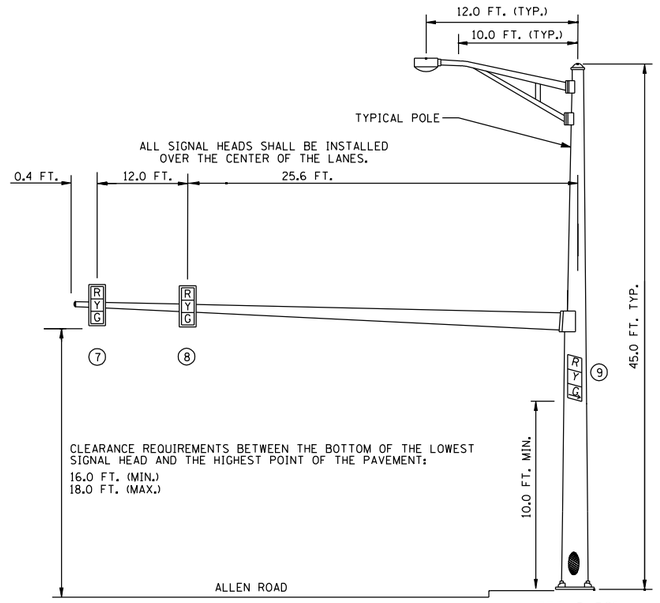
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	257
		CONTRACT NO. 68683		
	ILLINOIS	FED. AID PROJECT		



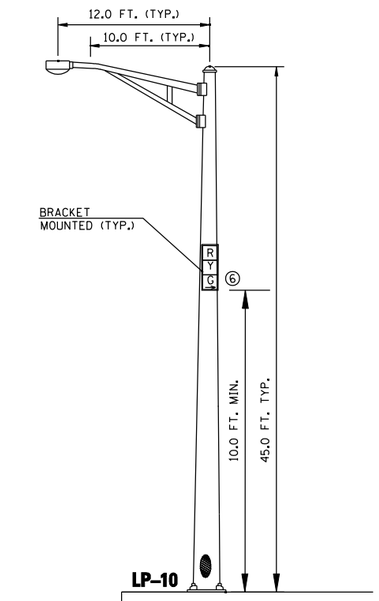
NORTHBOUND TRAFFIC SIGNAL
ALLEN ROAD AND SB RAMPS



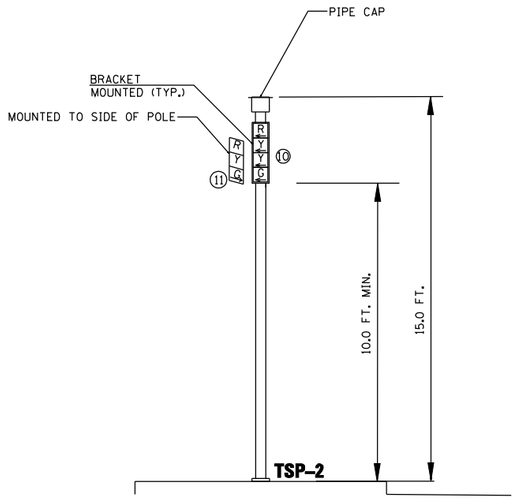
SB RAMP TRAFFIC SIGNAL
ALLEN ROAD AND SB RAMPS



SOUTHBOUND TRAFFIC SIGNAL
ALLEN ROAD AND SB RAMPS



SB RAMP TRAFFIC
ALLEN ROAD AND SB RAMPS



NORTHBOUND AND SOUTHBOUND TRAFFIC
ALLEN ROAD AND SB RAMPS

Kaskaskia Engineering Group, LLC

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	PLOT DATE = 1/27/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
MAST ARM AND TRAFFIC SIGNAL POST DETAILS
IL 6 SB RAMPS & ALLEN ROAD

SCALE: | SHEET 8 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	258
		CONTRACT NO. 68683		
	ILLINOIS	FED. AID PROJECT		

NOTE: FUTURE INTERCONNECT CONDUIT WILL REQUIRE FOUR (4) HANHOLES SPACED EVERY 500-600 FEET. LOCATION TO BE DETERMINED BY ENGINEER.

N

WEST VAN WINKLE WAY

ALLEN RD

110' - UNDRGRD C PVC 3

REMOV EX HANDHOLE

REMOV EX CONC FDN

29' - UNDRGRD C PVC 3

HH-4

EX MA-4 55'

EX HH-5

PROPOSED CONDUIT TO BE COUPLED TO EXISTING CONDUIT OUTSIDE OF EXISTING FOUNDATION.

8' - UNDRGRD C PVC 3

DRILL EX HANDHOLE - 3 EACH PROPOSED CONDUIT TO BE COUPLED TO EXISTING CONDUIT OUTSIDE OF EXISTING HANDHOLE.

43' - UNDRGRD C PVC 2

346' - UNDRGRD C PVC 2

PROPOSED CONDUIT TO BE COUPLED TO EXISTING CONDUIT OUTSIDE OF EXISTING FOUNDATION.

D-4B 6X50

D-4A 6X50

PED PUSH-BUT POST T1

19' - UNDRGRD C PVC 2

10' - UNDRGRD C PVC 2

9' - UNDRGRD C PVC 2

PED PUSH-BUT POST T1

REL MA-3 55'

D-5 6X50

D-1 6X50

151' - UNDRGRD C PVC 3 1/2

EX MA-1 54'

13' - UNDRGRD C PVC 2

PED PUSH-BUT POST T1

34' - UNDRGRD C PVC 2

REMOV EX CONC FDN

REL MA-2 50'

EX HH-2

28' - UNDRGRD C PVC 3

EX DHH-1

5' - UNDRGRD C PVC 2

DRILL EX HANDHOLE - 1 EACH PROPOSED CONDUIT TO BE COUPLED TO EXISTING CONDUIT OUTSIDE OF EXISTING HANDHOLE.

EXISTING UNDRGRD C PVC 3 1/2 TO BE REUSED

D-8B 6X50

D-8A 6X50

DRILL EX HANDHOLE - 3 EACH PROPOSED CONDUIT TO BE COUPLED TO EXISTING CONDUIT OUTSIDE OF EXISTING HANDHOLE.

2' - UNDRGRD C PVC 3 1/2 X 2

PROPOSED CONDUIT TO BE COUPLED TO EXISTING CONDUIT OUTSIDE OF EXISTING FOUNDATION.

30' - UNDRGRD C PVC 2

D-2A 6X6

D-2B 6X6

10' - UNDRGRD C PVC 2

HH-3

340' - UNDRGRD C PVC 2

HH-6

5' - UNDRGRD C PVC 2

D-6A 6X6

D-6B 6X6

2430' - UNDRGRD C PVC 2 (ALONG ALLEN ROAD TO END OF PROJECT FOR FUTURE INTERCONNECT SEE NOTE THIS SHEET)

TRAFFIC SIGNAL LEGEND

- PROPOSED SIGNAL HEAD WITH BACKPLATE
- PROPOSED SIGNAL HEAD WITHOUT BACKPLATE
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED CONDUIT
- PROPOSED MAST ARM (LENGTH SPECIFIED)
- PROPOSED TRAFFIC SIGNAL POST
- PROPOSED PEDESTRIAN PUSH-BUTTON POST
- EXISTING LUMINAIRE
- 6' X 50' PROPOSED DETECTOR LOOP
- 6' X 6' PROPOSED DETECTOR LOOP
- EXISTING SIGNAL HEAD WITH BACKPLATE
- EXISTING SIGNAL HEAD WITHOUT BACKPLATE
- EXISTING DOUBLE HANDHOLE
- EXISTING CONTROLLER
- EXISTING ELECTRICAL SERVICE POLE
- EXISTING HANDHOLE
- EXISTING TRAFFIC SIGNAL POST
- EXISTING MAST ARM

Kaskaskia Engineering Group, LLC

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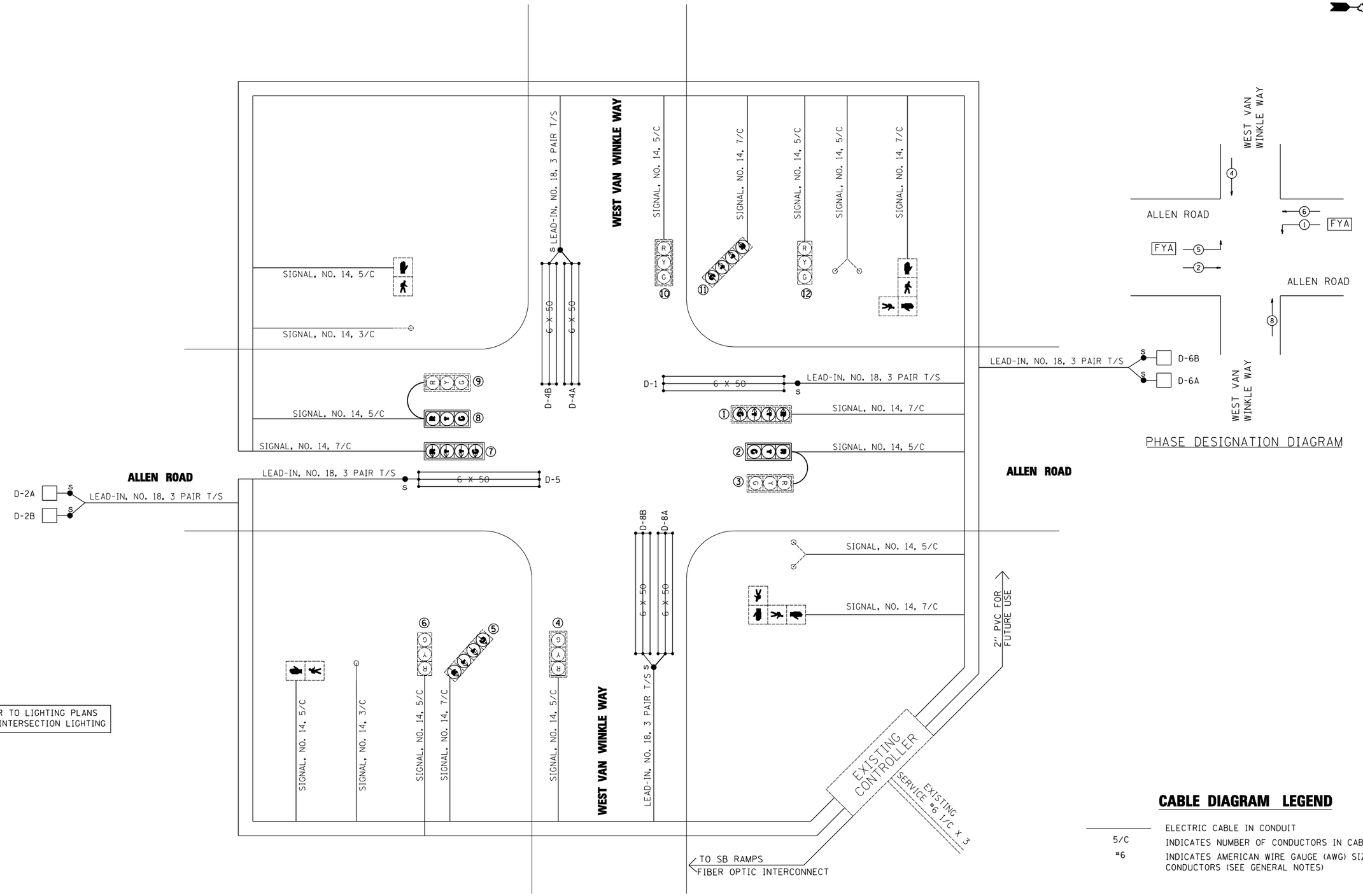
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
TRAFFIC SIGNAL PLAN
WEST VAN WINKLE WAY & ALLEN ROAD

SCALE: 1"=20' | SHEET 9 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	259
		CONTRACT NO. 68683		
		ILLINOIS FED. AID PROJECT		



PHASE DESIGNATION DIAGRAM

CABLE DIAGRAM LEGEND

———	ELECTRIC CABLE IN CONDUIT
5/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
#6	INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)

Kaskaskia Engineering Group, LLC

FILE NAME = ...\D468683-sht-ts3.dgn	USER NAME = IDOT	DESIGNED - LDC	REVISED -
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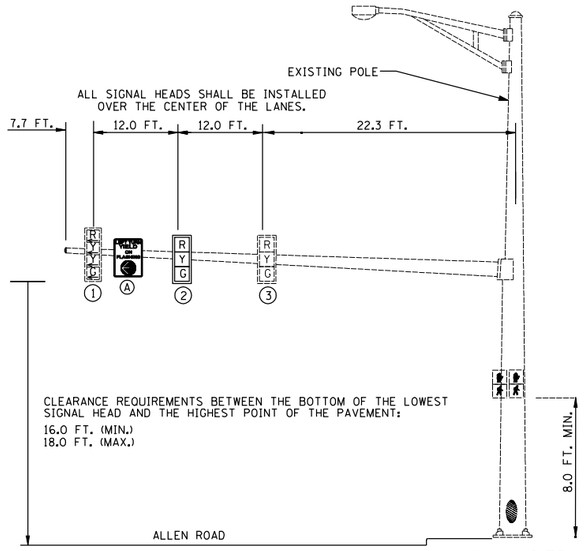
	PLOT DATE = 1/27/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
TRAFFIC SIGNAL CABLE AND PHASE DIAGRAMS
WEST VAN WINKLE WAY & ALLEN ROAD

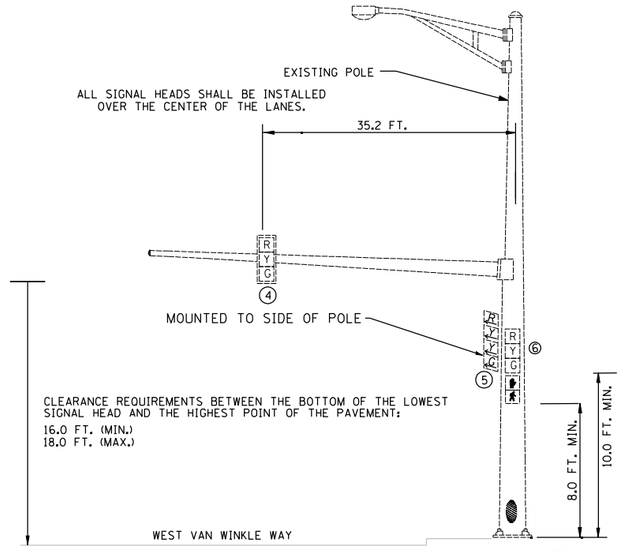
SCALE: | SHEET 10 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	260
		CONTRACT NO. 68683		
	ILLINOIS	FED. AID PROJECT		



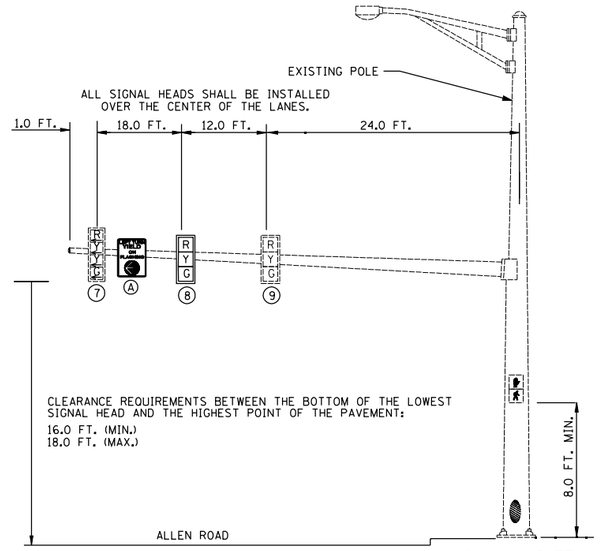
EX MA–1 54'

NORTHBOUND TRAFFIC SIGNAL
ALLEN ROAD AND WEST VAN WINKLE WAY



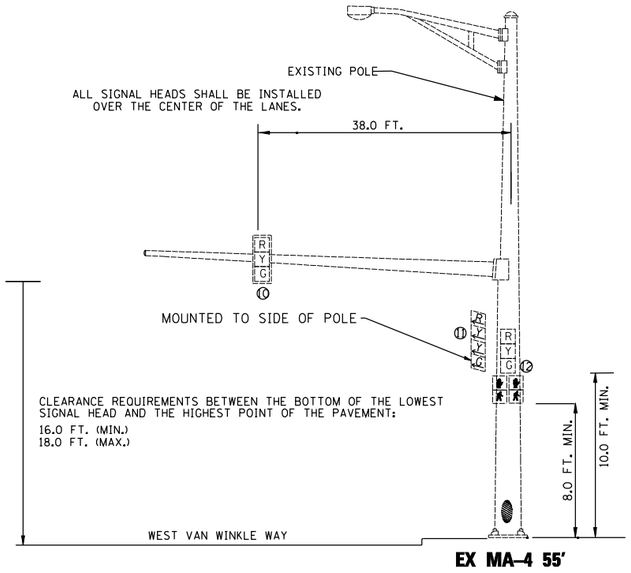
REL MA–2 50'

EASTBOUND TRAFFIC SIGNAL
ALLEN ROAD AND WEST VAN WINKLE WAY



REL MA–3 55'

SOUTHBOUND TRAFFIC SIGNAL
ALLEN ROAD AND WEST VAN WINKLE WAY



EX MA–4 55'

WESTBOUND TRAFFIC SIGNAL
ALLEN ROAD AND WEST VAN WINKLE WAY

Kaskaskia Engineering Group, LLC

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	PLOT DATE = 1/27/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
MAST ARM AND TRAFFIC SIGNAL POST DETAILS
WEST VAN WINKLE WAY & ALLEN ROAD

SCALE: | SHEET 11 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	261
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

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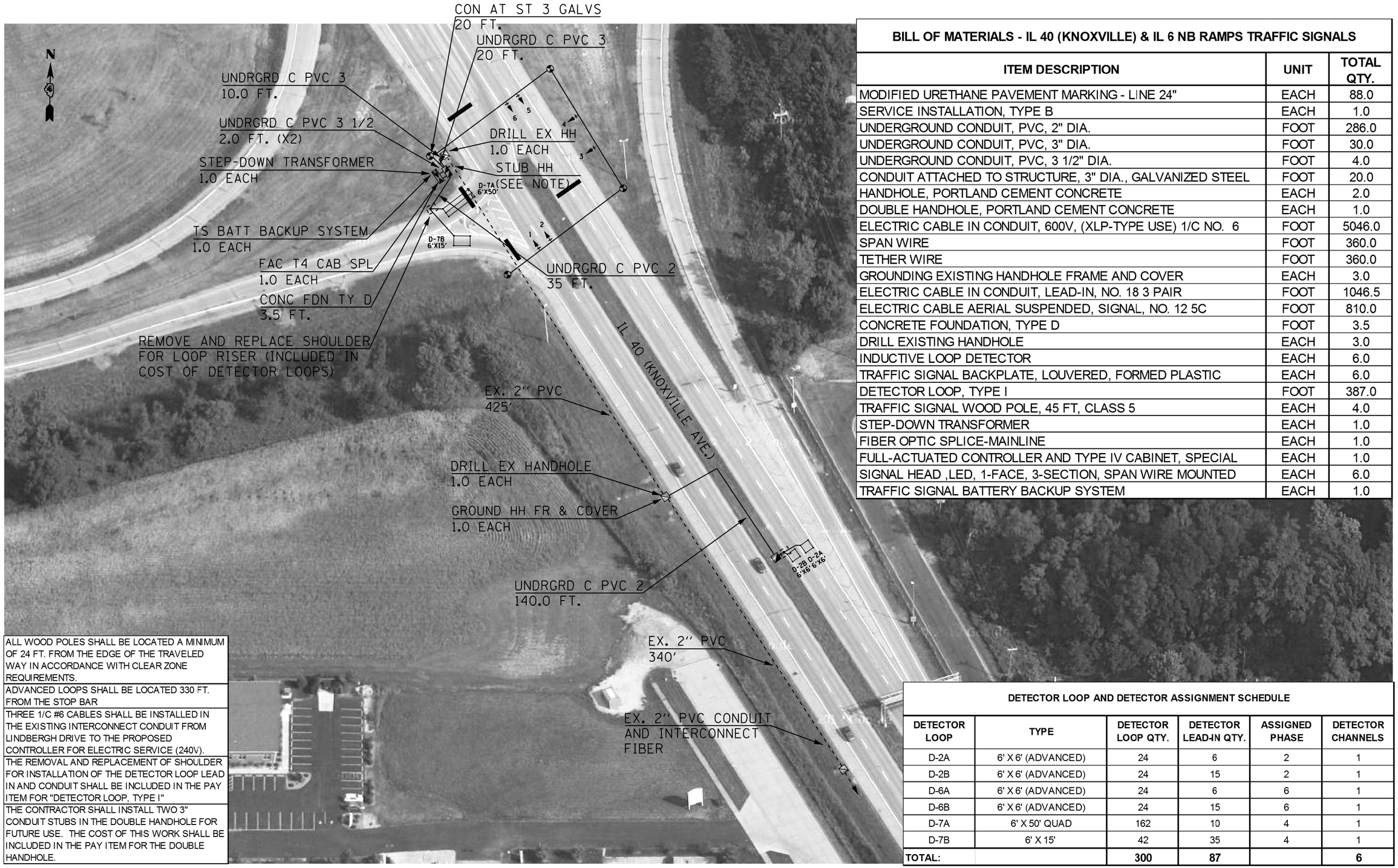
	PLOT DATE = 1/30/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNALS
IL 40 (KNOXVILLE) & IL 6 NB RAMPS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	262
		CONTRACT NO. 68683		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BILL OF MATERIALS - IL 40 (KNOXVILLE) & IL 6 NB RAMPS TRAFFIC SIGNALS		
ITEM DESCRIPTION	**UNIT**	**TOTAL QTY.**
MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	EACH	88.0
SERVICE INSTALLATION, TYPE B	EACH	1.0
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	286.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	30.0
UNDERGROUND CONDUIT, PVC, 3 1/2" DIA.	FOOT	4.0
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., GALVANIZED STEEL	FOOT	20.0
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2.0
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1.0
ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 1/C NO. 6	FOOT	5046.0
SPAN WIRE	FOOT	360.0
TETHER WIRE	FOOT	360.0
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	3.0
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	1046.5
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 12 5C	FOOT	810.0
CONCRETE FOUNDATION, TYPE D	FOOT	3.5
DRILL EXISTING HANDHOLE	EACH	3.0
INDUCTIVE LOOP DETECTOR	EACH	6.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6.0
DETECTOR LOOP, TYPE I	FOOT	387.0
TRAFFIC SIGNAL WOOD POLE, 45 FT, CLASS 5	EACH	4.0
STEP-DOWN TRANSFORMER	EACH	1.0
FIBER OPTIC SPLICE-MAINLINE	EACH	1.0
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1.0
SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	6.0
TRAFFIC SIGNAL BATTERY BACKUP SYSTEM	EACH	1.0

ALL WOOD POLES SHALL BE LOCATED A MINIMUM OF 24 FT. FROM THE EDGE OF THE TRAVELED WAY IN ACCORDANCE WITH CLEAR ZONE REQUIREMENTS.
ADVANCED LOOPS SHALL BE LOCATED 330 FT. FROM THE STOP BAR
THREE 1/C #6 CABLES SHALL BE INSTALLED IN THE EXISTING INTERCONNECT CONDUIT FROM LINDBERGH DRIVE TO THE PROPOSED CONTROLLER FOR ELECTRIC SERVICE (240V).
THE REMOVAL AND REPLACEMENT OF SHOULDER FOR INSTALLATION OF THE DETECTOR LOOP LEAD IN AND CONDUIT SHALL BE INCLUDED IN THE PAY ITEM FOR "DETECTOR LOOP, TYPE I"
THE CONTRACTOR SHALL INSTALL TWO 3" CONDUIT STUBS IN THE DOUBLE HANDHOLE FOR FUTURE USE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM FOR THE DOUBLE HANDHOLE.

DETECTOR LOOP AND DETECTOR ASSIGNMENT SCHEDULE

DETECTOR LOOP	TYPE	DETECTOR LOOP QTY.	DETECTOR LEAD-IN QTY.	ASSIGNED PHASE	DETECTOR CHANNELS
D-2A	6' X 6' (ADVANCED)	24	6	2	1
D-2B	6' X 6' (ADVANCED)	24	15	2	1
D-6A	6' X 6' (ADVANCED)	24	6	6	1
D-6B	6' X 6' (ADVANCED)	24	15	6	1
D-7A	6' X 50' QUAD	162	10	4	1
D-7B	6' X 15'	42	35	4	1
TOTAL:		**300**	**87**		**6**

FILE NAME = p:\allen road\Allen Road Temporary Traffic Signals and Lighting (Final 1-30-14).dgn	USER NAME = howalder	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 75.0407 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/30/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNALS
IL 40 (KNOXVILLE) & IL 6 NB RAMPS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	263
		CONTRACT NO. 68683		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

THREE 1/C #6 CABLES SHALL BE INSTALLED IN THE EXISTING INTERCONNECT CONDUIT FROM LINDBERGH DRIVE TO THE PROPOSED CONTROLLER FOR ELECTRIC SERVICE (240V).

FILE NAME = p:\allen road\Allen Road Temporary Traffic Signals and Lighting (Final 1-30-14).dgn	USER NAME = howalder	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 75.0407 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/30/2014	DATE -	REVISED -

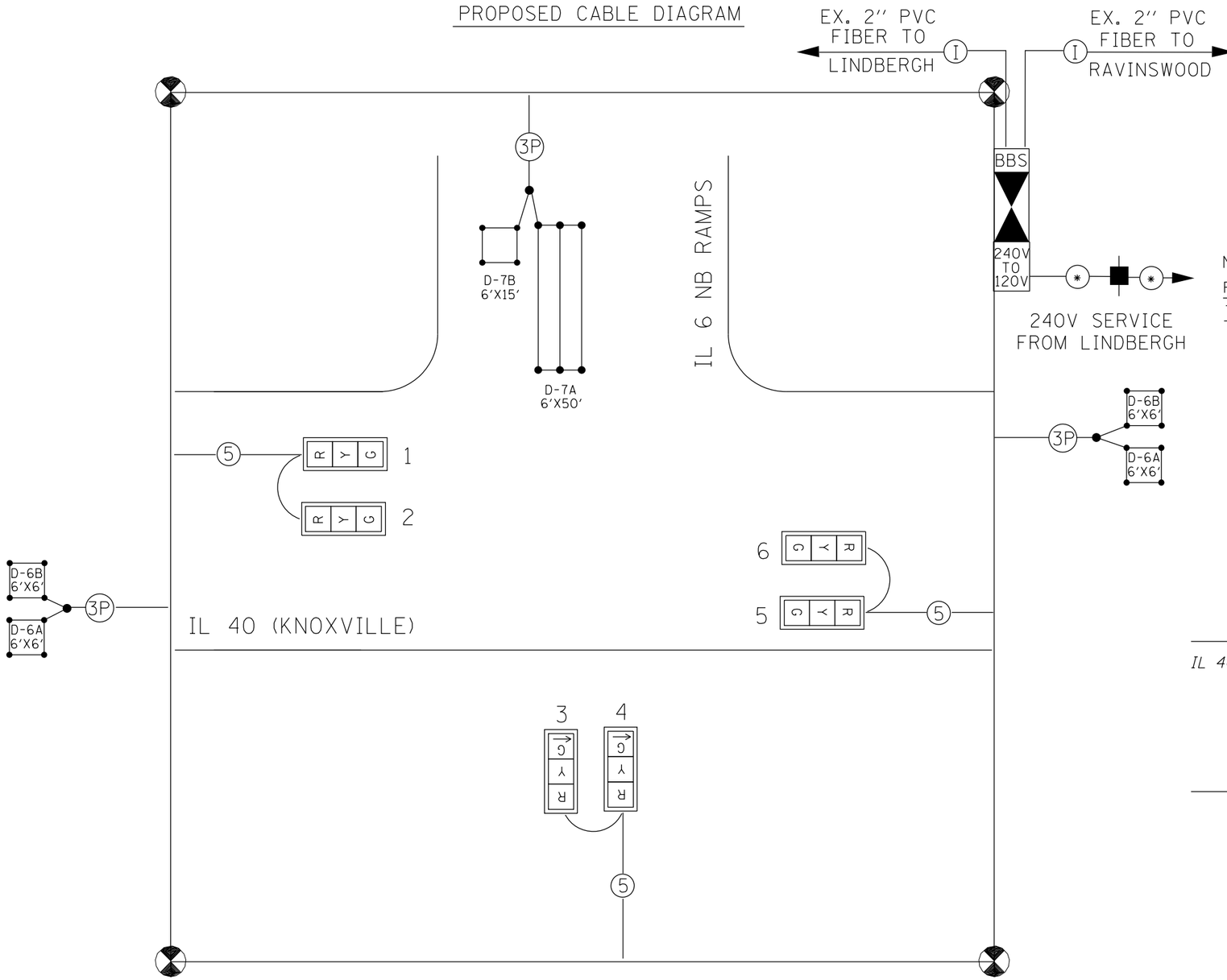
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNALS
IL 40 (KNOXVILLE) & IL 6 NB RAMPS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	264
		CONTRACT NO. 68683		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROPOSED CABLE DIAGRAM

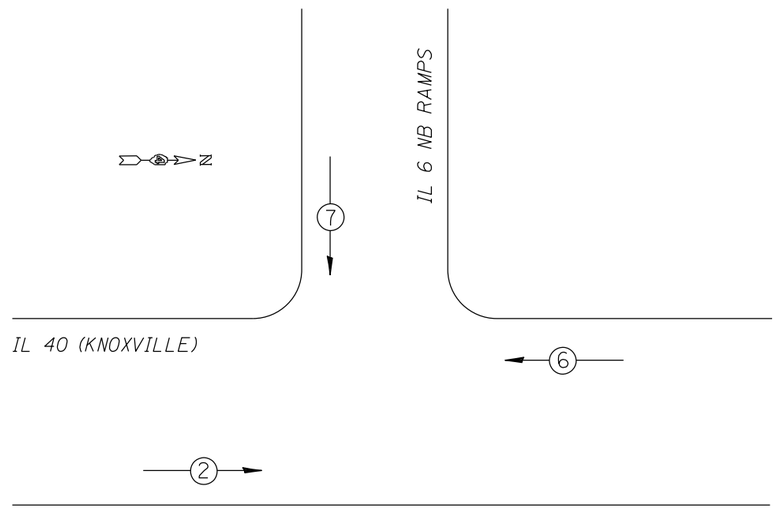


PROPOSED PHASE DIAGRAM

NAME OF INTERSECTION IL 40 & IL 6 NB RAMPS

PROPOSED CONTROLLER: ECONOLITE ASC/3 FAC (TS-2 TYPE 2)

TYPE IV CABINET, TS-2 BACKPANEL, 16 POSITION LOAD BAY



LEGEND

VEHICULAR MOVEMENT

* NUMBER REFERS TO ASSOCIATED PHASE

TRAFFIC SIGNALS LEGEND

	PROP. CONTROLLER	(5)	PROP. 5/C NO. 14 SIGNAL CABLE		PROP. SERVICE INSTALLATION
R Y G	PROP. SIGNAL HEAD W/BACKPLATE	(3P)	PROP. #18 3PR T/S DETECTOR CABLE		PROP. DETECTOR LOOP (6'X6')
	WOOD POLE, CLASS 5, 45 FT.	(*)	PROP. (1/C NO. 6) X 3		PROP. DETECTOR LOOP (6'X50')

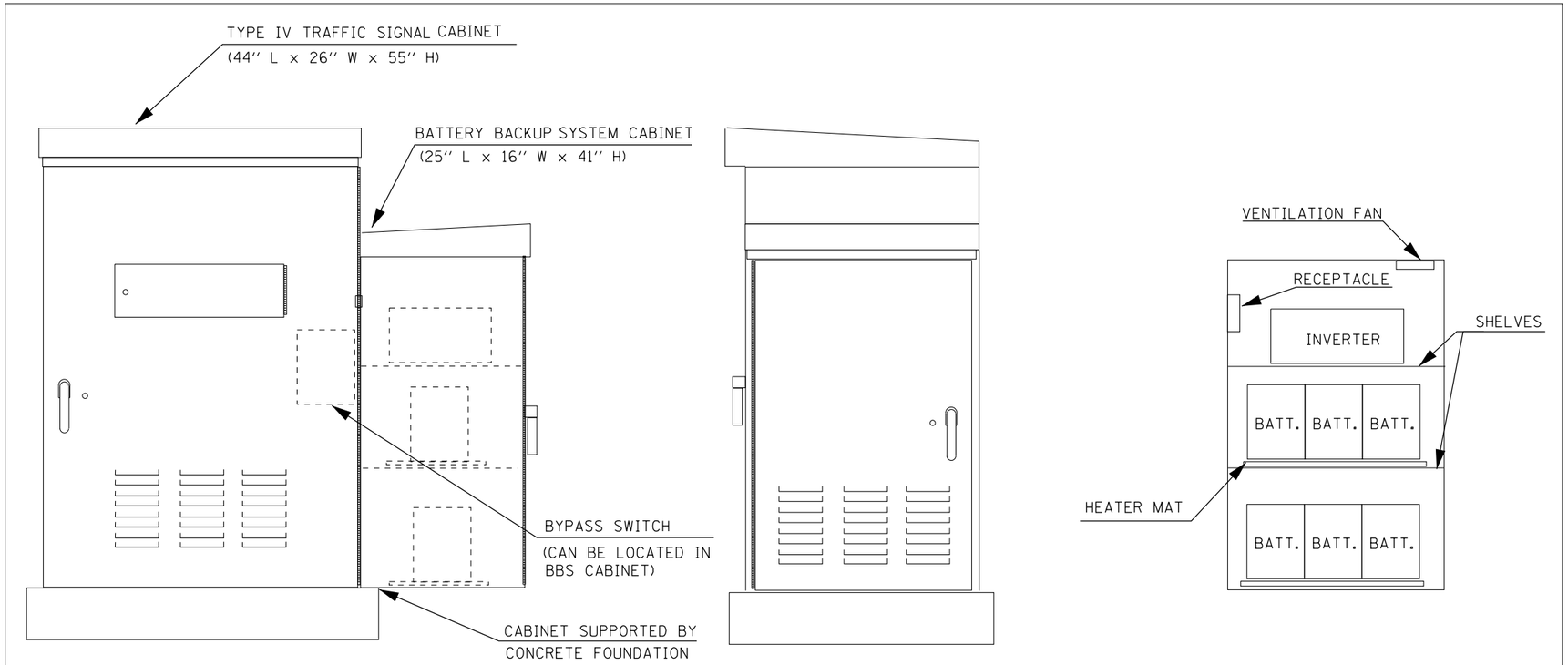
FILE NAME = p:\allen road\Allen Road Temporary Traffic Signals and Lighting (Final 1-30-14).dgn	USER NAME = howalder	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 75.0407 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/30/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL CABLE PLAN AND PHASE DIAGRAM
IL 40 (KNOXVILLE) & IL 6 NB RAMPS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	265
		CONTRACT NO. 68683		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BATTERY BACKUP CABINET DETAILS

NOTES

1. THE BATTERY BACKUP SYSTEM CABINET SHALL BE A NEMA TYPE 3R CABINET WITH MINIMUM OUTSIDE DIMENSIONS OF 41'' (H) X 25'' (W) X 16'' (D). THE CABINET SHALL BE EQUIPPED WITH A THREE POINT LATCHING MECHANISM, TWO SHELVES, THERMOSTATICALLY CONTROLLED VENTILATION FAN, AND A POWER RECEPTACLE. THE CABINET SHALL BE MOUNTED TO THE SIDE OF THE EXISTING TYPE IV CABINET WITH THE BOTTOM OF THE CABINET SUPPORTED BY THE CONCRETE FOUNDATION.
2. ALL CABINET LIGHTS, HEATER STRIPS, VENTILATION FANS, AND SERVICE RECEPTACLES SHALL BE BYPASSED WHEN THE BATTERY BACKUP UNIT IS OPERATING IN BATTERY MODE.
3. THE BATTERY BACKUP UNITS CONTACTS SHALL BE WIRED TO PROVIDE LOCAL CONTROLLER ALARMS (AS AVAILABLE IN THE EXISTING CABINETS).

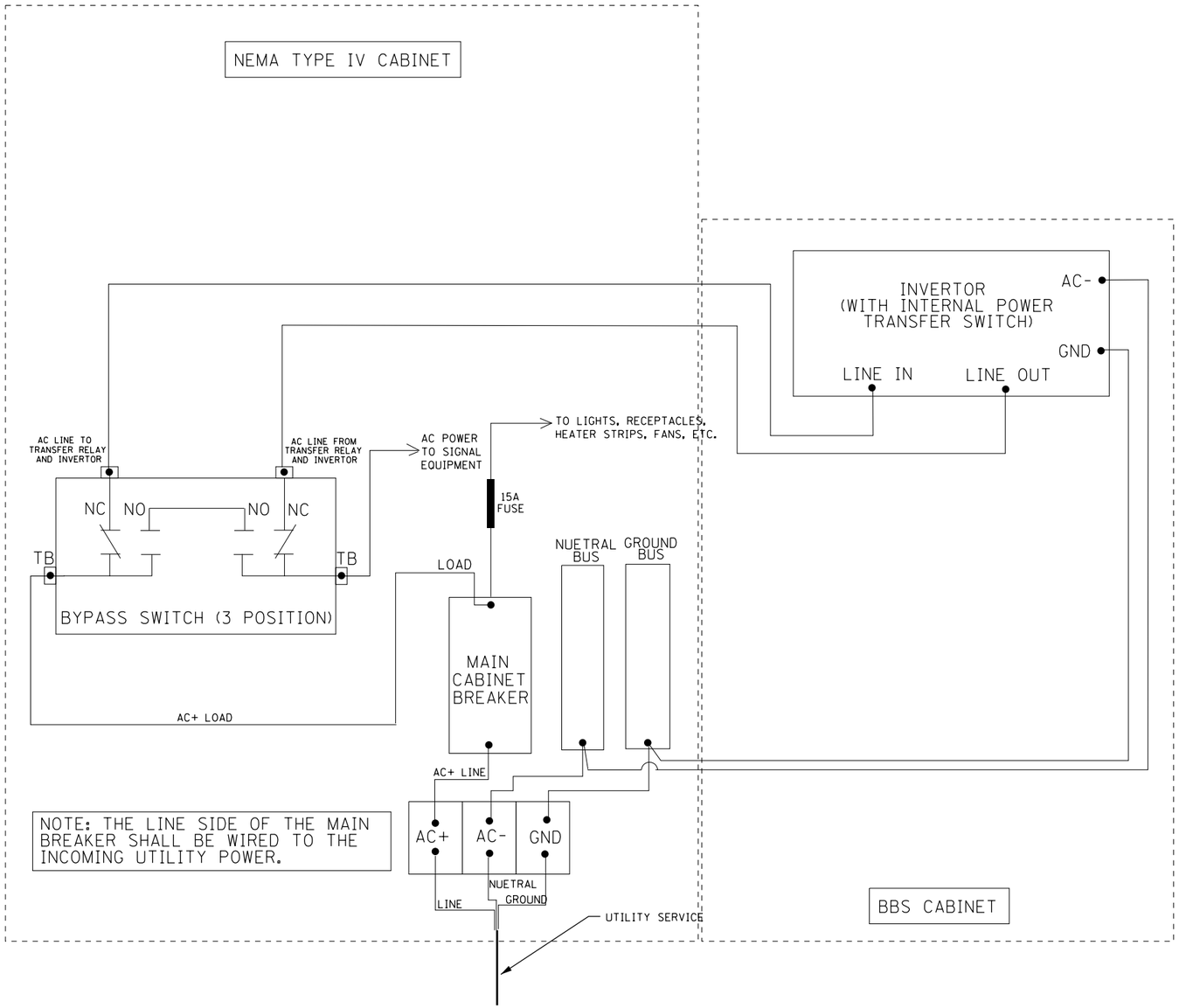
FILE NAME = p:\allen road\Allen Road Temporary Traffic Signals and Lighting (Final 1-30-14).dgn	USER NAME = howalder	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 75.0407 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/30/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

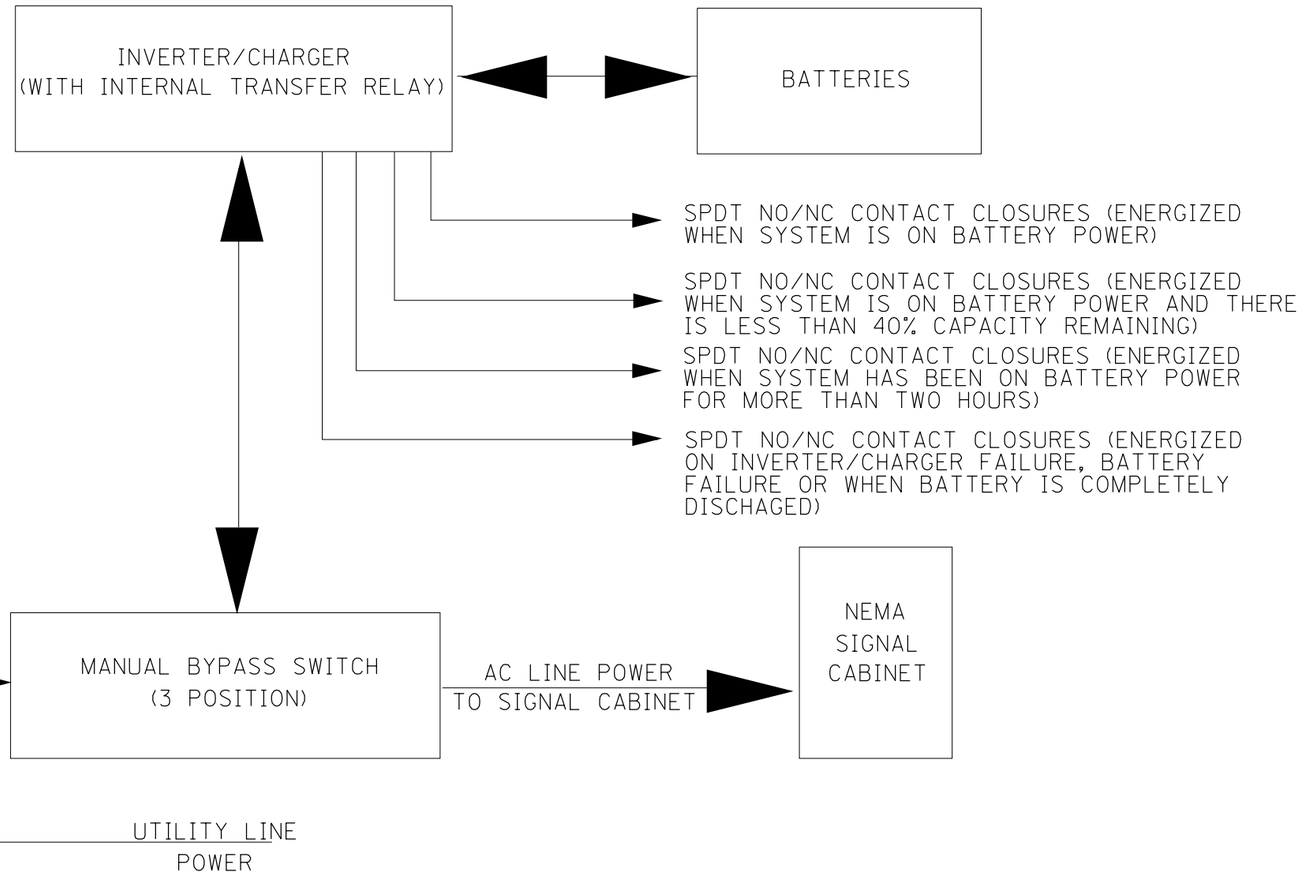
BATTERY BACKUP SYSTEM CABINET DETAIL

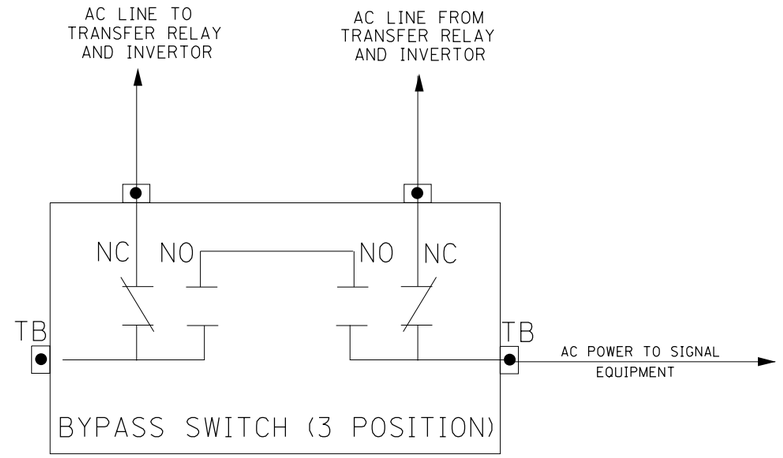
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	266
		CONTRACT NO. 68683		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



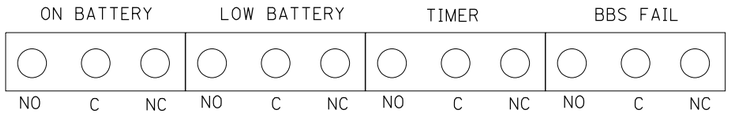
FILE NAME = p:\allen road\Allen Road Temporary Traffic Signals and Lighting (Final 1-30-14).dgn	USER NAME = howalder	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BATTERY BACKUP SYSTEM CABINET WIRING DIAGRAM**				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						6584	105; (72-7HB)BY	PEORIA	487	267
	PLOT SCALE = 75.0407 ' / in.	CHECKED -	REVISED -								CONTRACT NO. 68683		
	PLOT DATE = 1/30/2014	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





NOTES:

1. TB - #8 TERMINAL BLOCKS
2. NO - NORMALLY OPEN
3. NC - NORMALLY CLOSED
4. NO/NC CONTACTS SHALL ALL TOGGLE SIMULTANEOUSLY WITH A SINGLE MANUALLY OPERATED SWITCH.
5. THE MANUAL BYPASS SWITCH SHALL ONLY SWITCH LINE POWER. THE NEUTRAL AND EQUIPMENT GROUND SHALL NOT BE SWITCHED AND SHALL BE CONNECTED TO THE NEMA CABINET BUSSES.



NO/NC CONTACTS MAY SHARE OR USE SEPARATE COMMONS.

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		DRAWN -	REVISED -
	PLOT SCALE = 75.0407 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/30/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BATTERY BACKUP SYSTEM BLOCK AND BYPASS SWITCH DIAGRAMS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	268
		CONTRACT NO. 68683		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

INDEX OF SHEETS

Ⓐ UNIT DUCT, 600V, 2-1C NO.8, 1/C NO. 8 GROUND (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

Ⓑ UNIT DUCT, 600V, 2-1C NO.4, 1/C NO. 6 GROUND (XLP-TYPE USE), 1" DIA. POLYETHYLENE

Ⓒ ELECTRIC CABLE IN CONDUIT, 600V, 2-1C NO.4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE

Ⓓ 4-1/C NO. 10 AND 1/C NO. 10 GND. IN 1" PVC CONDUIT EMBEDDED IN STRUCTURE

Ⓔ 2-1/C NO. 10 AND 1/C NO. 10 GND. IN 1" PVC CONDUIT EMBEDDED IN STRUCTURE

Ⓕ 4-1/C NO. 10 AND 1/C NO. 10 GND. IN 1" UNDERGROUND PVC CONDUIT

COMBINATION LIGHTING UNIT 400W

PROPOSED ~~250W~~ HPS HORIZONTAL MOUNT, M-C-3

PROPOSED LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., 15 FT. MAST ARM, 250W HPS HORIZONTAL MOUNT, M-C-3

PROPOSED LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., 15 FT. MAST ARM, 400W HPS HORIZONTAL MOUNT LUMINAIRE, M-C-3

PROPOSED LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., 15 FT. MAST ARM, 400W HPS HORIZONTAL MOUNT LUMINAIRE, M-C-3

EXISTING LUMINAIRE ON EXISTING MAST ARM TO REMAIN IN PLACE (250W)

PROPOSED LIGHTING CONTROLLER

PROPOSED ELECTRIC SERVICE INSTALLATION

JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS NOTED

PROPOSED UNDERPASS LUMINAIRE, 150W HPS, ATTACHED TO THE CENTER PIER

PROPOSED UNIT DUCT, SIZE AS NOTED

PROPOSED CONDUIT, SIZE AS NOTED

PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AS NOTED

PROPOSED PVC CONDUIT EMBEDDED IN STRUCTURE, SIZE AS NOTED

BILL OF MATERIALS

DESCRIPTION	UNIT	TOTALS
ELECTRIC SERVICE INSTALLATION	EACH	2
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	11
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1,783
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	490
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	115
CONDUIT EMBEDDED IN STRUCTURE, 1" DIA., PVC	FOOT	175
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	265
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 10" X 8" X 6"	EACH	1
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	3
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	345
UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	14,000
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	848
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	14,200
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	547
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	33
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	45
UNDERPASS LUMINAIRE, 150 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4
LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	1
LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., 15 FT. MAST ARM	EACH	34
LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., 15 FT. MAST ARM	EACH	40
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	511
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	73
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	1
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	11
REMOVAL OF POLE FOUNDATION	EACH	12
REMOVAL OF LIGHTING CONTROLLER	EACH	1
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
DRILL EXISTING HANDHOLE	EACH	5
REMOVAL OF EXISTING SIGN LIGHTING UNIT WITH NO SALVAGE	EACH	2
CONDUIT ATTACHED TO STRUCTURE, 2" DIA. STAINLESS STEEL	FOOT	10
LUMINAIRE, LED, CEILING MOUNT, 50 WATT	EACH	8
LIGHTING CONTROLLER, SPECIAL	EACH	1
TEMPORARY LIGHTING SYSTEM	L SUM	1

GENERAL NOTES

1. ALL PROPOSED LIGHTING UNITS SHALL BE LABELLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. LABELLING SHALL INCLUDE THE LIGHT POLE NUMBER AND CIRCUIT DESIGNATION AS DIRECTED BY THE RESIDENT ENGINEER.
2. ALL EXISTING ALUMINUM LIGHT POLES, LUMINAIRES, STEEL FOUNDATIONS, AND ASSOCIATED HARDWARE AND APPURTENANCES SHALL BE REMOVED AND DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ELECTRICAL WORK WITH OTHER TRADES.
4. PROPOSED LIGHT POLES SHALL BE LOCATED AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. CONCRETE LIGHT POLE FOUNDATIONS SHALL BE INSTALLED FLUSH WITH THE PROPOSED GRADE AND SHALL MEET THE HEIGHT REQUIREMENTS CONTAINED IN ARTICLE 836.03 OF THE STANDARD SPECIFICATIONS.
6. FOUNDATIONS INSTALLED WITHIN THE CLEAR ZONE, UNLESS LOCATED BEHIND GUARD RAIL, SHALL NOT PROTRUDE MORE THAN 4 INCHES ABOVE THE FINISHED GRADE WITHIN A 5 FT CHORD ACROSS THE FOUNDATION, WITH ANCHOR BOLTS AND BREAKAWAY DEVICE INCLUDED.
7. THE CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS WHILE MAINTAINING ADEQUATE CLEARANCE FROM OVERHEAD UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING CLEARANCES PER THE NATIONAL ELECTRIC CODE AND WITH THE UTILITY COMPANIES. THE LOCATIONS OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. ANY REROUTING, DISCONNECTION, RELOCATION, AND PROTECTION OF UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND THE DEPARTMENT. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

GENERAL NOTES CONT.

8. THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING AND HAND DIGGING AROUND UTILITIES AS NEEDED. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEMS FOR UNDERGROUND CONDUIT AND UNIT DUCT.
9. PROPOSED LIGHT POLES LOCATED ALONG IL 6 AND ALONG RAMPS SHALL BE INSTALLED ~~A MINIMUM OF~~ 20 FEET FROM THE EDGE OF THE TRAVELLED WAY OR FIVE FEET BEHIND GUARD RAIL UNLESS OTHERWISE NOTED IN THE PLANS.
10. THE CONTRACTOR SHALL PROVIDE AND INSTALL A CONCRETE WORK PAD IN FRONT OF THE PROPOSED LIGHTING CONTROLLER IN ACCORDANCE WITH ARTICLE 825 OF THE STANDARD SPECIFICATIONS.
11. BREAKAWAY DEVICES ARE NOT REQUIRED FOR LIGHT POLES LOCATED BEHIND GUARDRAIL OR MOUNTED ON BRIDGE PARAPET.
12. NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHT TIME OPERATION WITHOUT APPROVAL OF THE ENGINEER.
13. ALL LIGHTING SPLICES SHALL BE MADE IN THE BASES OF LIGHT POLES OR MAST ARMS OR IN JUNCTION BOXES WHERE INDICATED ON THE PLANS. NO SPLICES WILL BE ALLOWED IN HANDHOLES.
14. THE REMOVAL OF EXISTING SIGN LIGHTING ON STRUCTURES THAT ARE MAKED IN THE PLANS FOR REMOVAL WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PAY ITEM FOR THE REMOVAL OF THE STRUCTURE.
15. THE REMOVAL OF EXISTING SIGN LIGHTING ON EXISTING STRUCTURES THAT ARE TO REMAIN IN PLACE SHALL BE INCLUDED IN THE PAY ITEM REMOVAL OF EXISTING SIGN LIGHTING UNIT, NO SALVAGE.
16. NO POLES TO BE INSTALLED IN THE FLOWLINE OF DITCH. POLE SETBACK TO BE REDUCED TO NOT LESS THAN 15 FT IF NECESSARY AS DIRECTED BY THE ENGINEER.

GENERAL NOTES CONT.

17. LUMINAIRES SHALL BE ORIENTED WITH OPTICS PERPENDICULAR TO THE CENTERLINE OF THE ROADWAY AS REQUIRED BY ARTICLE 821.04 OF THE STANDARD SPECIFICATIONS.
18. THE CONTRACTOR SHALL VERIFY THAT THE LOADING OF THE POLE, ARMS, LUMINAIRES, AND APPURTENANCES DOES NOT EXCEED THE CAPACITY OF THE BREAKAWAY DEVICE.
19. THE CONTRACTOR SHALL AVOID CONTACT OF DISSIMILAR METALS IN ERECTING THE POLE ON ITS FOUNDATION AND/OR BREAKAWAY DEVICE AS REQUIRED BY ARTICLE 830.03 (a) OF THE STANDARD SPECIFICATIONS.

MAURER-STUTZ ENGINEERS SURVEYORS

FILE NAME = S:\237\2013\23713809,00\AllenRdPhII\CADD\Default	USER NAME = beswenson	DESIGNED -	REVISED -
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	PLOT DATE = 1/29/2014 12:12:09 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
LIGHTING – GENERAL NOTES, LEGEND, SCHEDULES AND INDEX

SCALE: | SHEET 1 OF 19 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	269
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

N

0 100 200

SCALE IN FEET

LEGEND

- REMOVAL OF EXISTING SIGN LIGHTING UNIT WITH NO SALVAGE
- R REMOVAL OF LIGHTING UNIT, NO SALVAGE AND REMOVAL OF POLE FOUNDATION
- R REMOVAL OF LIGHTING CONTROLLER AND REMOVAL OF LIGHTING CONTROLLER FOUNDATION
- R REMOVAL OF ELECTRIC SERVICE INSTALLATION

REMOVAL OF LIGHTING UNIT, SALVAGE AND REMOVAL OF POLE FOUNDATION

EXISTING CONDUIT

RAMP D

RAMP C

EXISTING CONDUIT

EXISTING CONDUIT

EXISTING CONDUIT ATTACHED TO STRUCTURE

EXISTING CONDUIT ATTACHED TO STRUCTURE

REMOVAL OF LIGHTING CONTROLLER AND REMOVAL OF LIGHTING CONTROLLER FOUNDATION

REMOVAL OF ELECTRIC SERVICE INSTALLATION

RAMP B

RAMP A

EXISTING CONDUIT

EXISTING CONDUIT

EXISTING CONDUIT

REMOVAL OF EXISTING SIGN LIGHTING UNIT WITH NO SALVAGE (2 LUMINAIRES)

STA. 925+05.22

950 945 940 935 930 925

BILL OF MATERIALS - LIGHTING REMOVAL		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	1
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	11
REMOVAL OF POLE FOUNDATION	EACH	12
REMOVAL OF LIGHTING CONTROLLER	EACH	1
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
REMOVAL OF EXISTING SIGN LIGHTING UNIT WITH NO SALVAGE	EACH	2

MAURER-STUTZ ENGINEERS SURVEYORS

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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
LIGHTING – REMOVAL

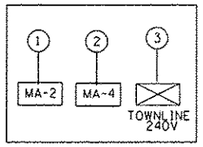
SCALE: | SHEET 2 OF 19 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	270
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

N

0 50 100
SCALE IN FEET

BILL OF MATERIALS - ALLEN RD. & TOWNLINE RD. LIGHTING		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	260.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	2028.0
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	3.0
LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., 15 FT. MAST ARM	EACH	3.0
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	21.0
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	3.0
DRILL EXISTING HANDHOLE	EACH	2.0



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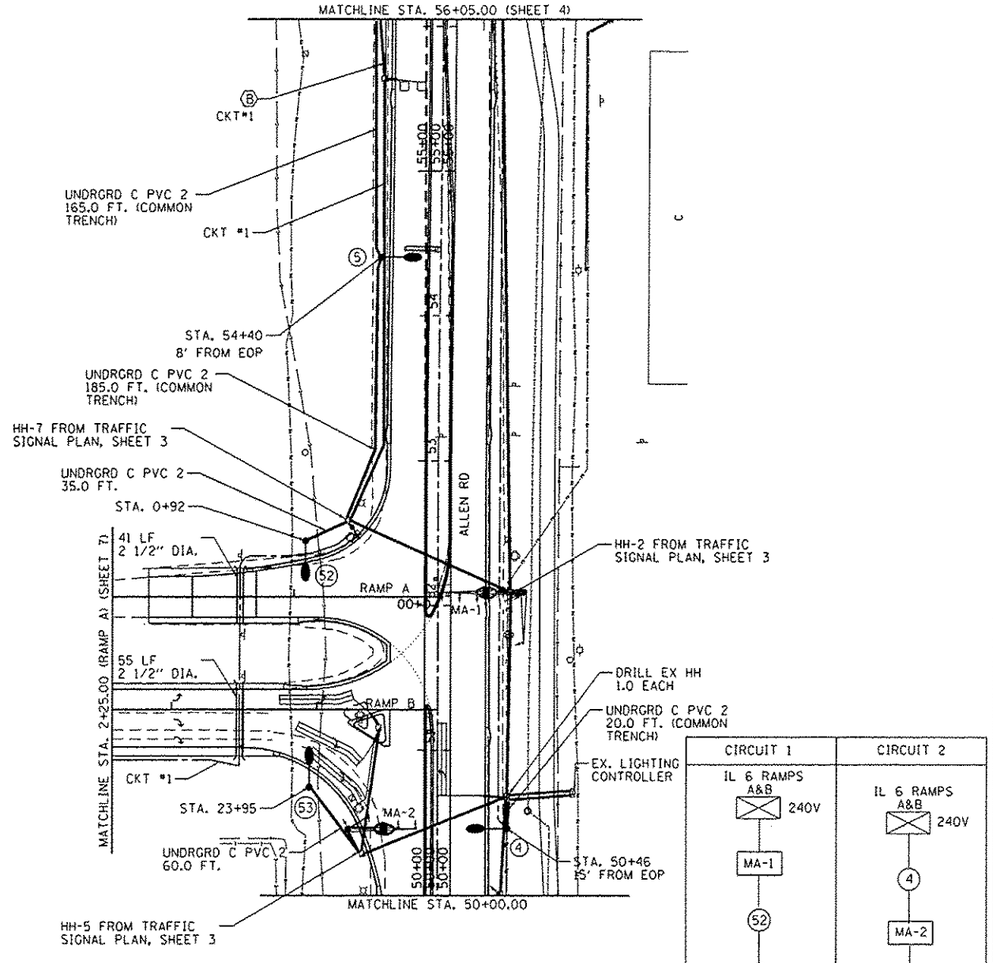
SCALE IN FEET

BILL OF MATERIALS - ALLEN RD. & IL 6 NB RAMPS A&B		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	579.0
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	96.0
UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	175.0
UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	670.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	4053.3
~~LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT~~	~~EACH~~	~~2.0~~
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	8
LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., 15 FT. MAST ARM	EACH	1.0
LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., 15 FT. MAST ARM	EACH	5.0
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	35.0
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	5.0
DRILL EXISTING HANDHOLE	EACH	1.0



MAURER-STUTZ ENGINEERS SURVEYORS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
LIGHTING – ALLEN ROAD

SCALE: | SHEET 3 OF 19 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: 172-7H(B)BY	PEORIA	487	271
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

N

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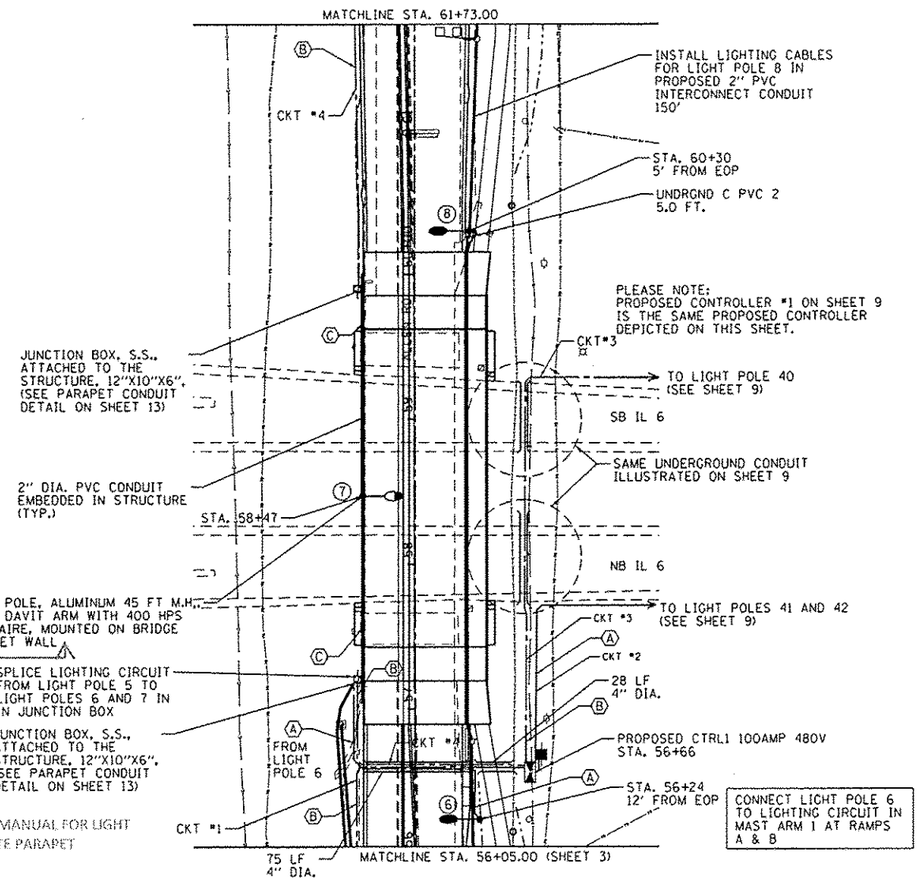
SCALE IN FEET

QUANTITIES IN THIS VIEW ARE INCLUDED IN THE BILL OF MATERIALS FOR ALLEN RD. & IL 6 NB RAMPS A&B AND ALLEN RD. & IL 6 SB RAMPS C&D



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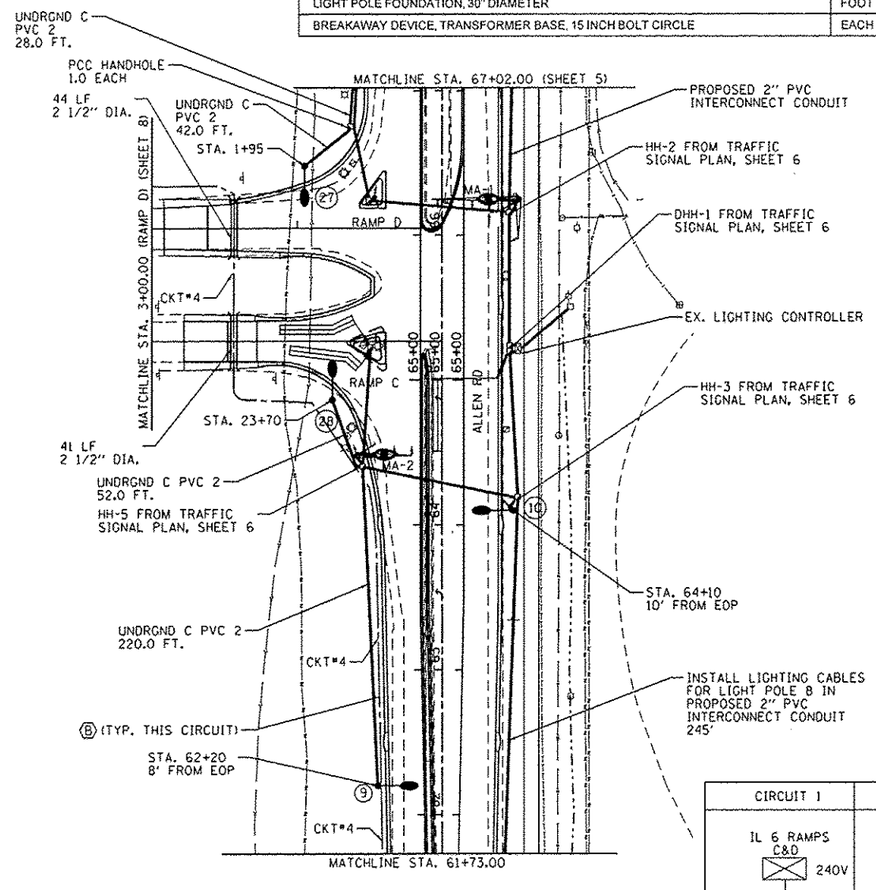
SCALE IN FEET

BILL OF MATERIALS - ALLEN RD. & IL 6 SB RAMPS C&D		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	470.0
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	85.0
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	265.3
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	2.0
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1.0
UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	937.3
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	4902.9
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	546.6
~~LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT~~	~~EACH~~	~~2.0~~
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	8
LIGHT POLE, GALVANIZED STEEL, 50 FT, M.H., 15 FT, MAST ARM	EACH	6.0
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	42.0
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	6.0



CIRCUIT 1	CIRCUIT 2
IL 6 RAMPS C&D	IL 6 RAMPS C&D
240V	240V
8, 10, 28, MA-2, 9	MA-1, 27, 11
*6 1/C X 3	*6 1/C X 3

MAURER-STUTZ ENGINEERS SURVEYORS

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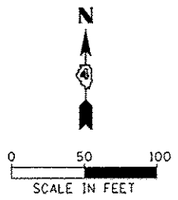
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

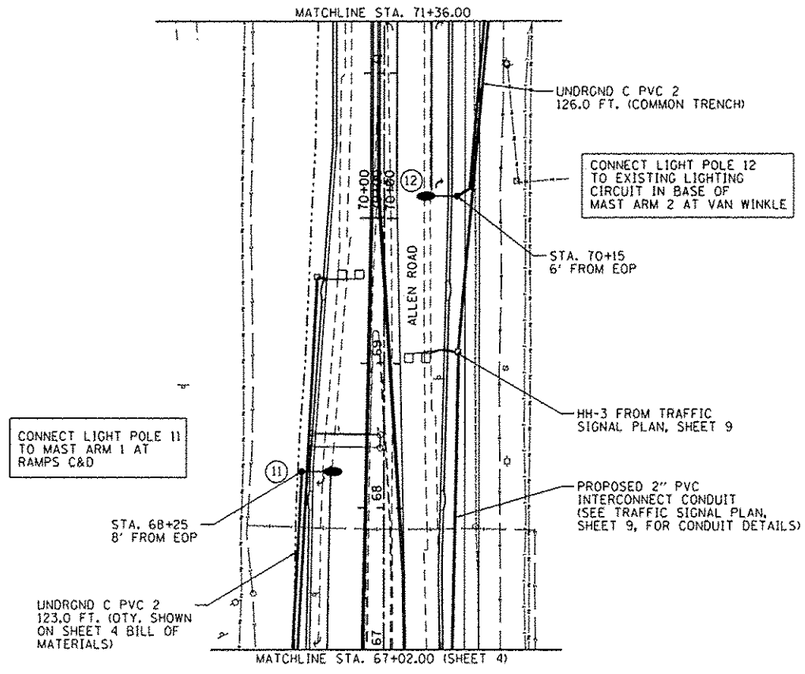
ALLEN ROAD IMPROVEMENTS
LIGHTING - ALLEN ROAD

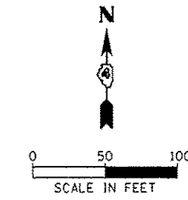
SCALE: | SHEET 4 OF 19 SHEETS | STA. | TO STA.

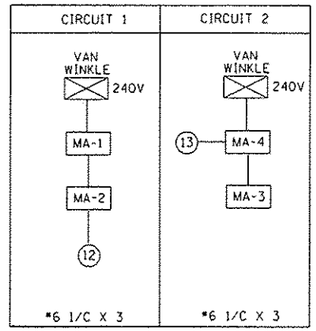
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HBIBY	PEORIA	487	272
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



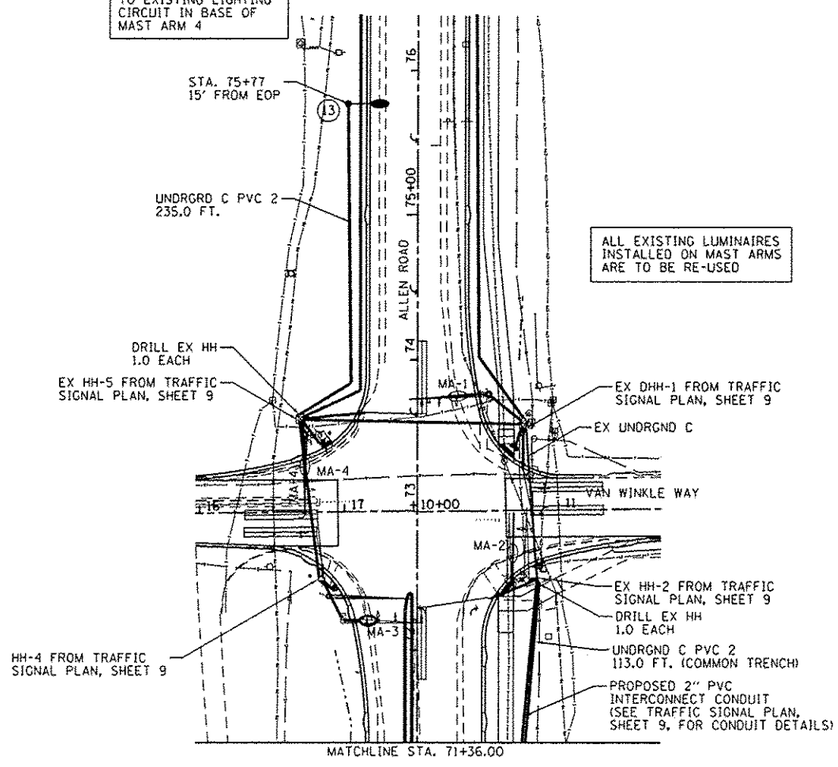
QUANTITIES IN THIS VIEW ARE INCLUDED IN THE BILL OF MATERIALS FOR ALLEN RD. & VAN WINKLE WAY AND ALLEN RD. & IL 6 SB RAMPS C&D







CONNECT LIGHT POLE 13 TO EXISTING LIGHTING CIRCUIT IN BASE OF MAST ARM 4



ALL EXISTING LUMINAIRES INSTALLED ON MAST ARMS ARE TO BE RE-USED

BILL OF MATERIALS - ALLEN RD. & VAN WINKLE LIGHTING		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	474.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	3215.4
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	2.0
LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., 15 FT. MAST ARM	EACH	2.0
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	14.0
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	2.0
DRILL EXISTING HANDHOLE	EACH	2.0

MAURER-STUTZ ENGINEERS SURVEYORS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
LIGHTING - ALLEN ROAD

SCALE: | SHEET 5 OF 19 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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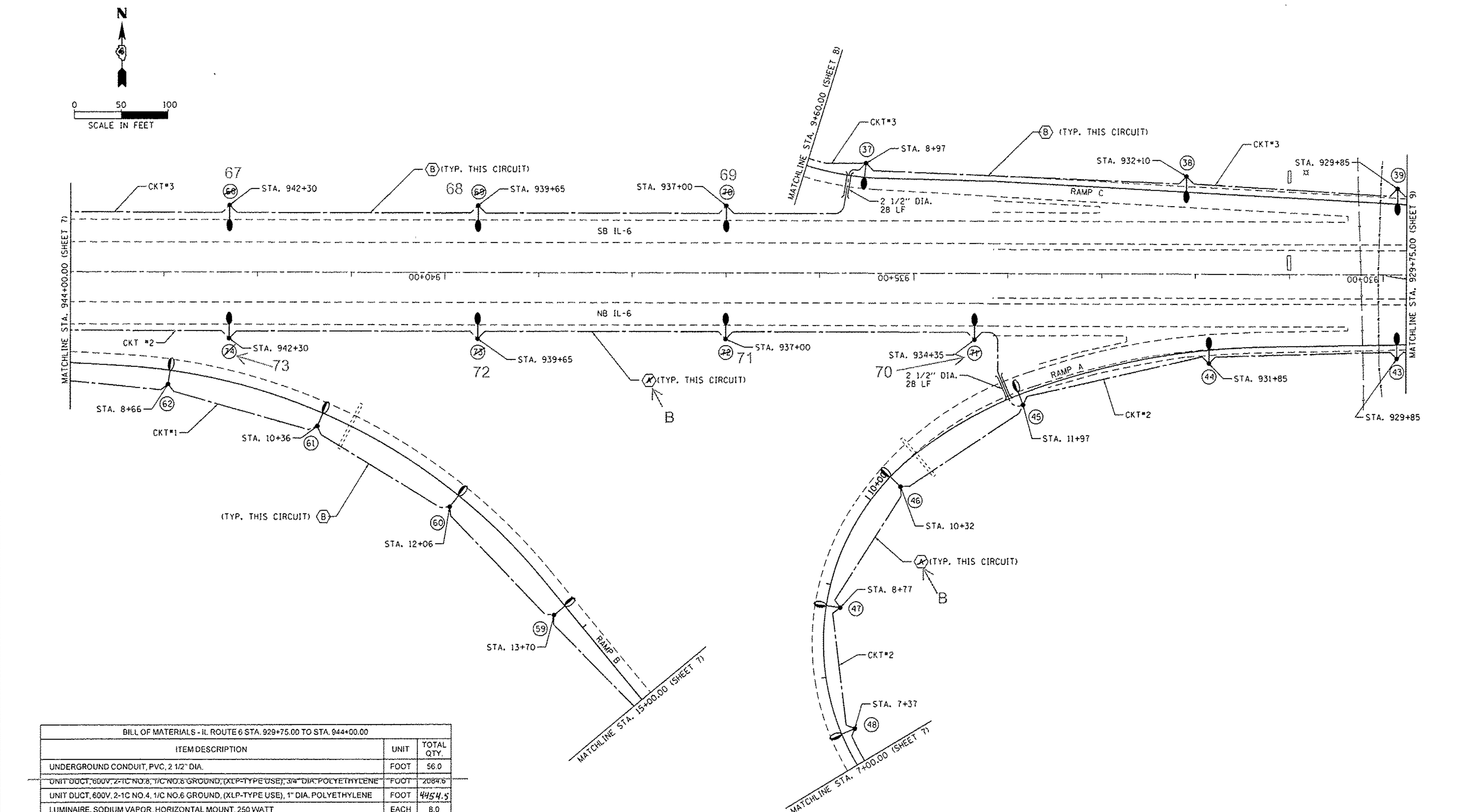
6585		CONTRACT NO. 68683		
ILLINOIS FED. AID PROJECT				



BILL OF MATERIALS - IL ROUTE 6 STA. 929+75.00 TO STA. 944+00.00		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	56.0
~~UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE~~	~~FOOT~~	~~2084.6~~
UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	4454.5
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	8.0
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	12.0
LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., 15 FT. MAST ARM	EACH	8.0
LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., 15 FT. MAST ARM	EACH	12.0
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	140.0
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	20.0

MAURER-STUTZ ENGINEERS SURVEYORS

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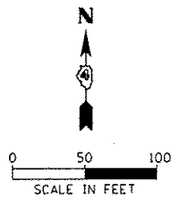
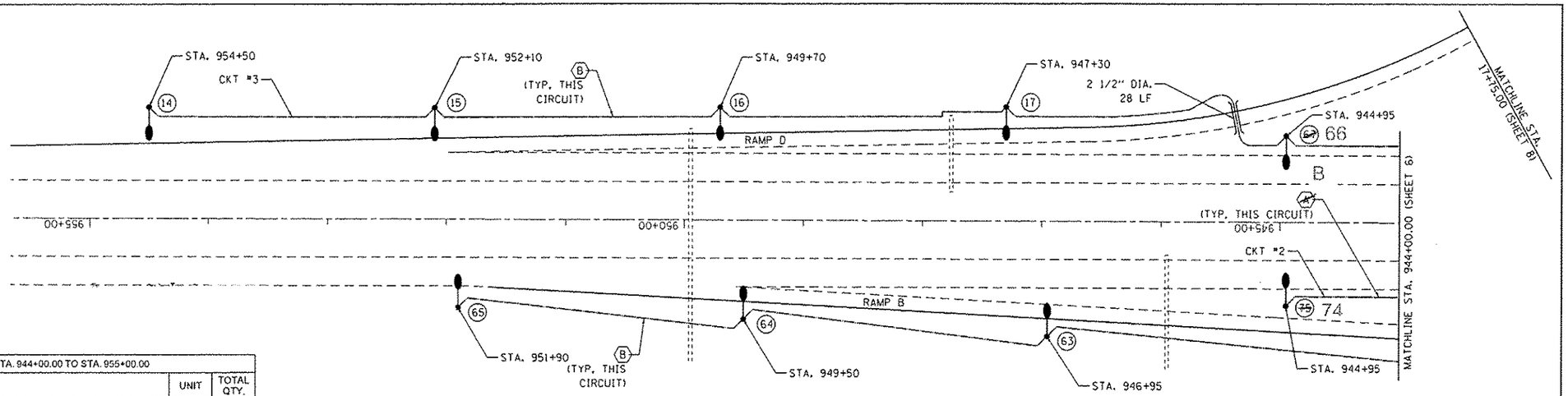
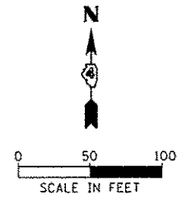
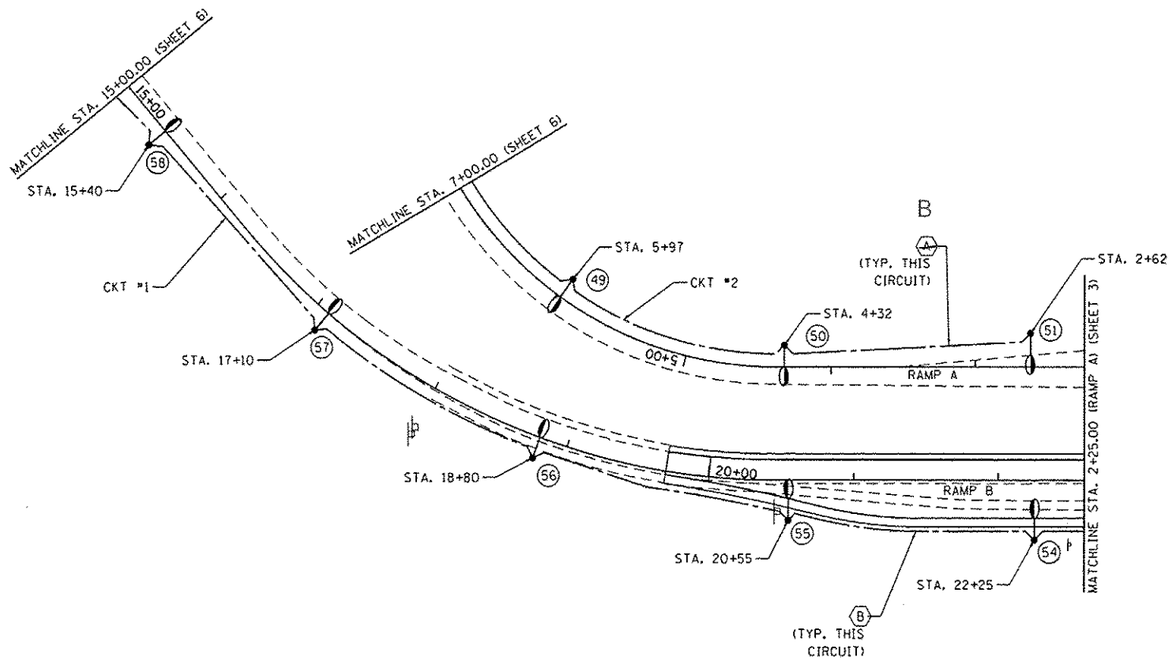
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	274
6585		CONTRACT NO. 68683		
		ILLINOIS FED. AID PROJECT		





BILL OF MATERIALS - IL ROUTE 6 STA. 944+00.00 TO STA. 955+00.00		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	28.0
~~UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE~~	~~FOOT~~	~~101.2~~
UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	2322.9
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	9
LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., 15 FT. MAST ARM	EACH	9
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	63
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	9





BILL OF MATERIALS - IL 6 NB RAMPS A & B		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
~~UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE~~	~~FOOT~~	~~450.5~~
UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	1281.9
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	8.0
LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., 15 FT. MAST ARM	EACH	8.0
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	56.0
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	8.0

MAURER-STUTZ ENGINEERS SURVEYORS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
LIGHTING – ILLINOIS ROUTE 6

SCALE: | SHEET 7 OF 19 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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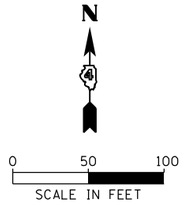
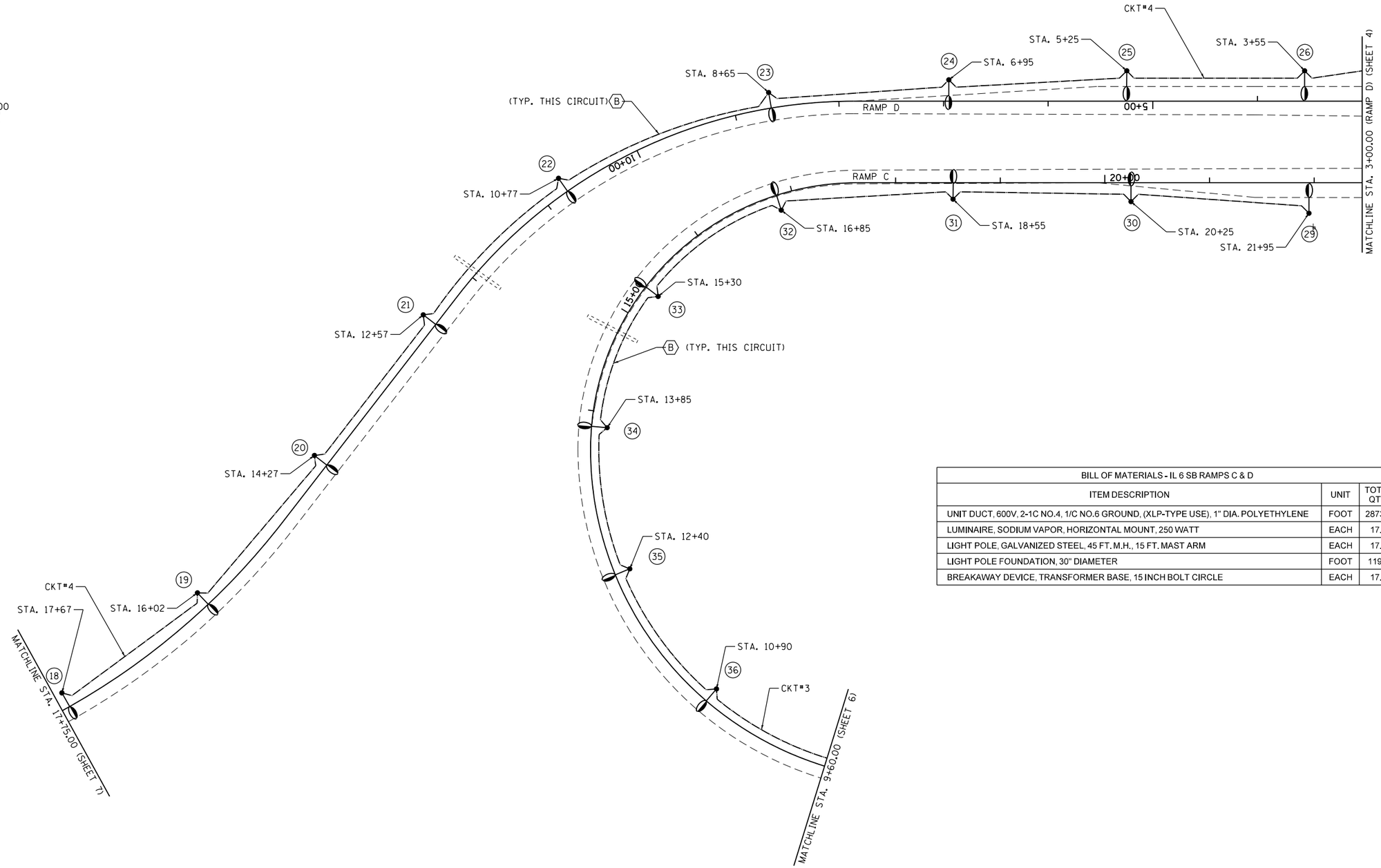
6585		CONTRACT NO. 68683		
ILLINOIS	FED. AID PROJECT			





BILL OF MATERIALS - IL 6 SB RAMPS C & D		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	2873.6
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	17.0
LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., 15 FT. MAST ARM	EACH	17.0
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	119.0
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	17.0

MAURER-STUTZ ENGINEERS SURVEYORS

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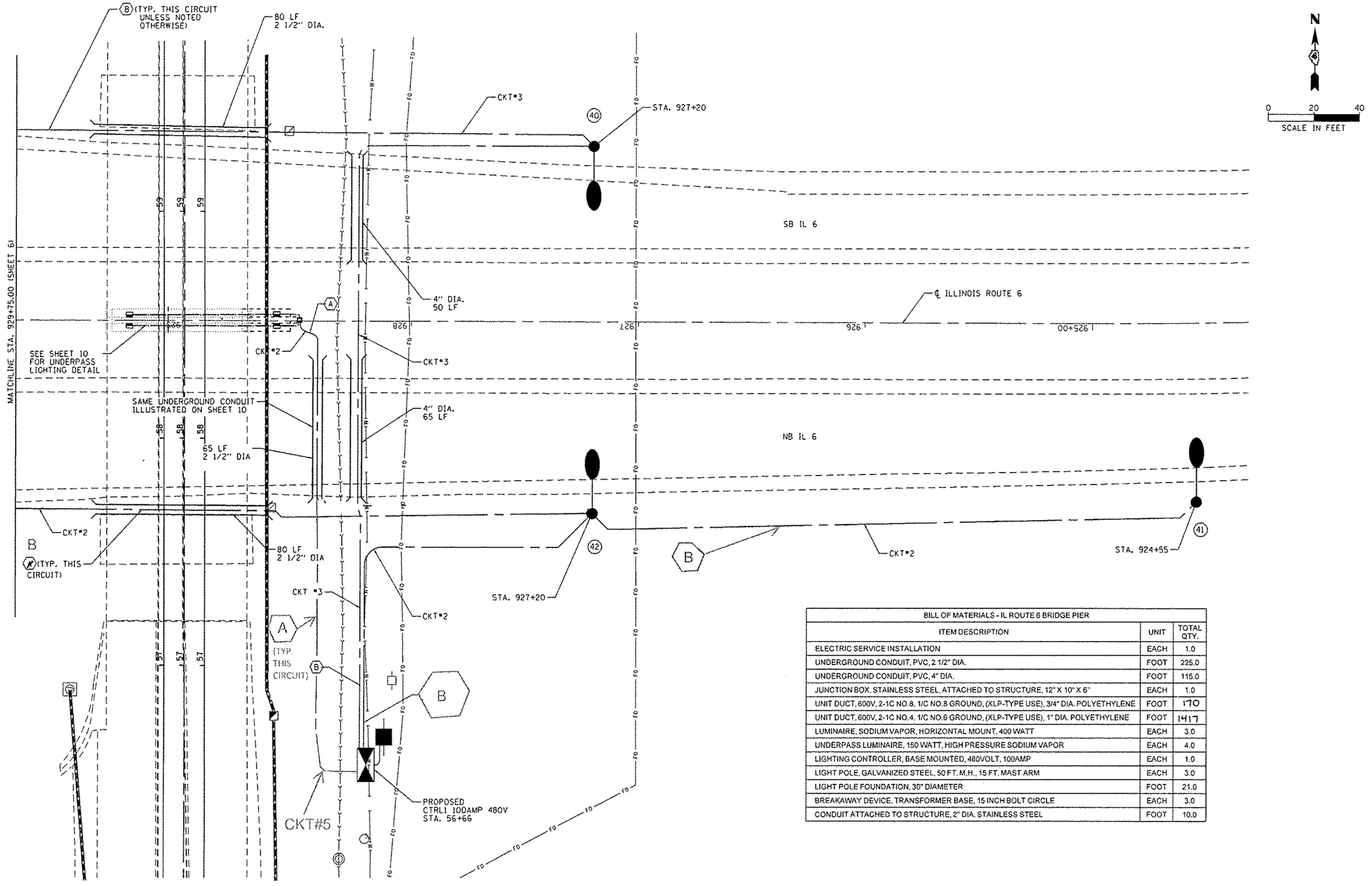
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
LIGHTING – ILLINOIS ROUTE 6

SCALE: | SHEET 8 OF 19 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	276
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



BILL OF MATERIALS - IL ROUTE 6 BRIDGE PIER		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
ELECTRIC SERVICE INSTALLATION	EACH	1.0
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	225.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	115.0
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	1.0
UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	170
UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	1417
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	3.0
UNDERPASS LUMINAIRE, 150 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4.0
LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	1.0
LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., 15 FT. MAST ARM	EACH	3.0
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	21.0
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	3.0
CONDUIT ATTACHED TO STRUCTURE, 2" DIA. STAINLESS STEEL	FOOT	10.0

MAURER-STUTZ ENGINEERS SURVEYORS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
LIGHTING – ILLINOIS ROUTE 6

SCALE: | SHEET 9 OF 19 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	277
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

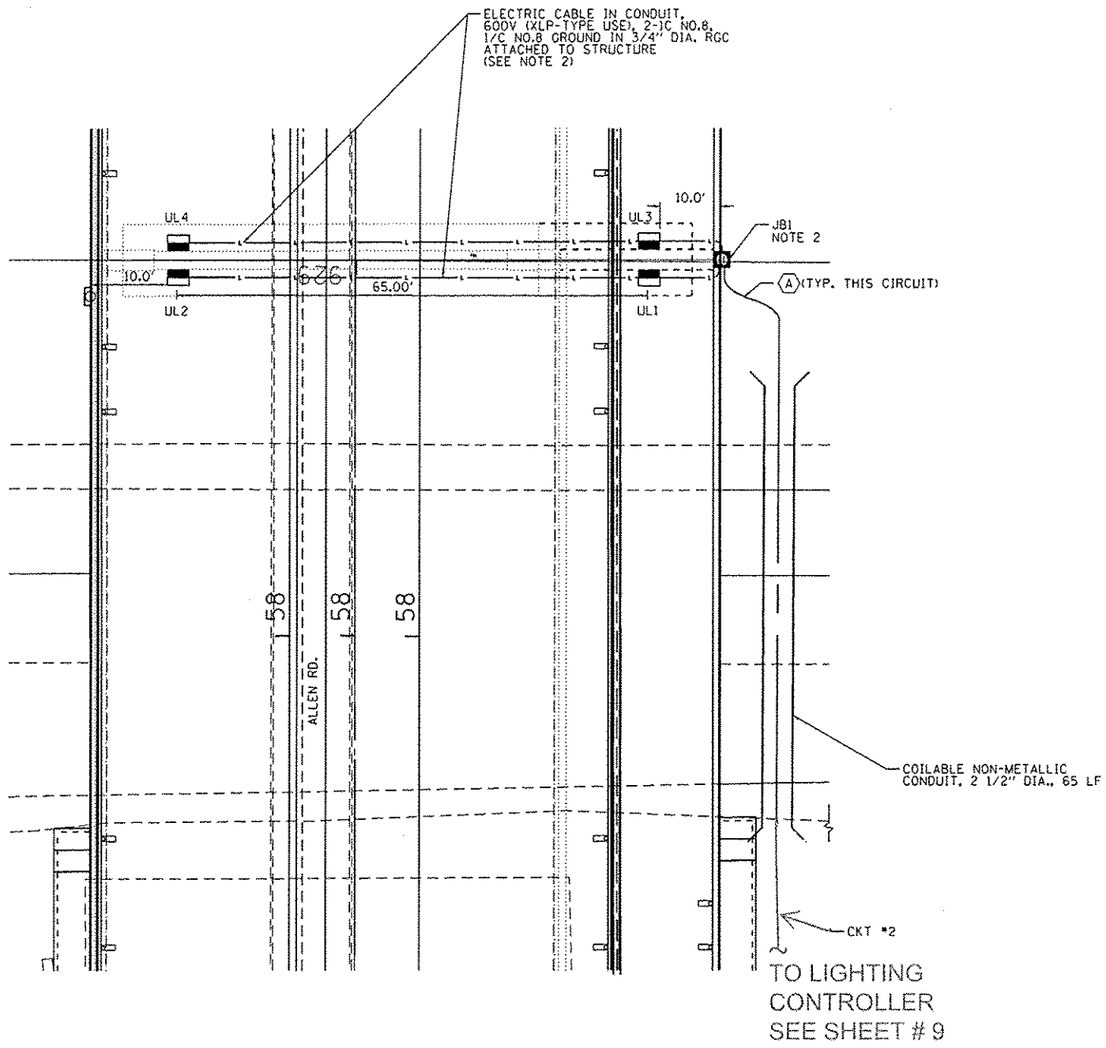
NOTES:

1. PROPOSED UNDERPASS LUMINAIRES SHALL BE CENTER PIER MOUNTED, OFFSET 30 FEET FROM EDGE OF PAVEMENT OF ROADWAY. SEE SHEET 11 FOR WALL UNDERPASS LIGHTING WITH CENTER PIER DETAILS.

2. CONDUIT AND WIRING FROM JUNCTION BOX AT BRIDGE PIER TO THE UNDERPASS LUMINAIRE(S) SHALL BE INCIDENTAL TO THE COST OF THE UNDERPASS LUMINAIRE(S). THIS INCLUDES ALL APPURTENANCES INCLUDING BUT NOT LIMITED TO: STRAPS, CLAMPS, HANGERS, FITTING, ATTACHMENTS, HARDWARE, JUNCTION BOXES, ETC.

3. CONDUIT ATTACHED TO STRUCTURE SHALL BE RIGID GALVANIZED STEEL UNLESS NOTED OTHERWISE. ALL HARDWARE AND CONDUIT APPURTENANCES, AS NOTED ABOVE, SHALL BE STAINLESS STEEL. ANY CONDUIT THAT PENETRATES THE GROUND SHALL BE STAINLESS STEEL.

4. SEE LIGHTING SHEET 9 FOR BILL OF MATERIALS FOR THIS SHEET.



MAURER-STUTZ ENGINEERS SURVEYORS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
LIGHTING – ILLINOIS ROUTE 6

SCALE: | SHEET 10 OF 19 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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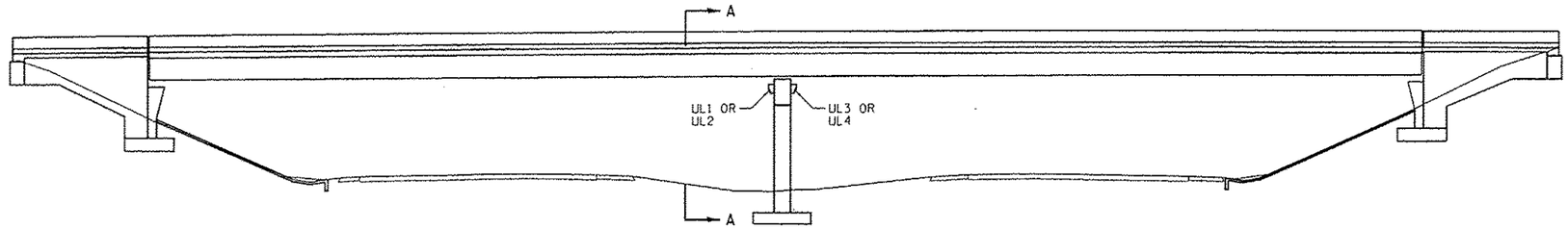
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



OVERPASS ELEVATION
(LOOKING WEST)

NOTES:

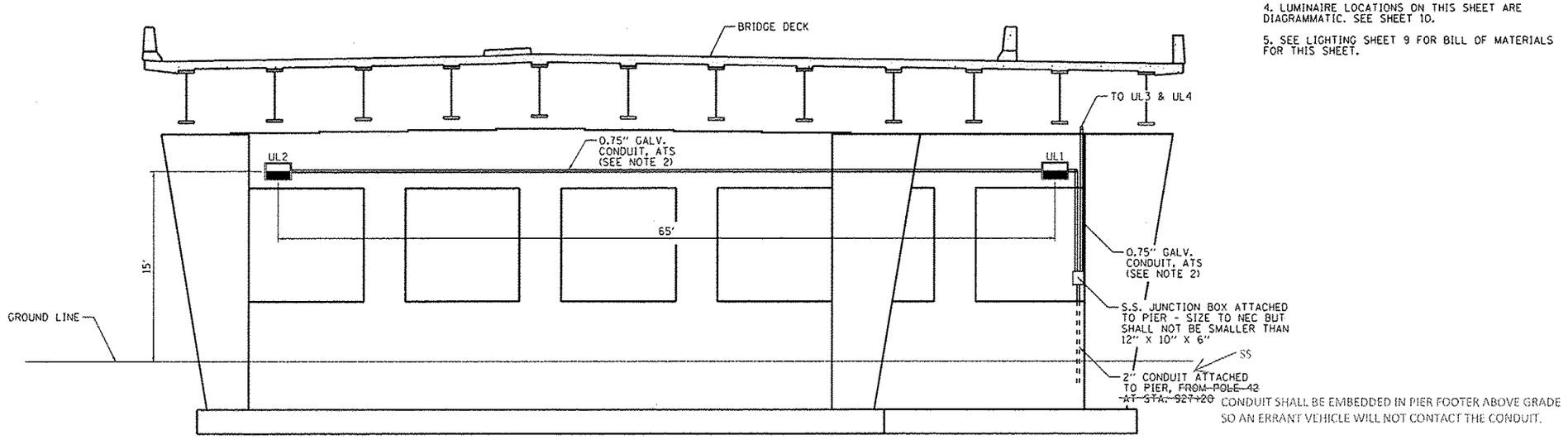
1. PROPOSED UNDERPASS LUMINAIRES SHALL BE CENTER PIER MOUNTED, OFFSET 30 FEET FROM EDGE OF PAVEMENT OF ROADWAY.

2. CONDUIT AND WIRING FROM JUNCTION BOX AT BRIDGE ABUTMENT TO THE UNDERPASS LUMINAIRE(S) SHALL BE INCIDENTAL TO THE COST OF THE UNDERPASS LUMINAIRE(S). THIS INCLUDES ALL APPURTENANCES INCLUDING BUT NOT LIMITED TO : STRAPS, CLAMPS, HANGERS, FITTINGS, ATTACHMENTS, HARDWARE, JUNCTION BOXES, ETC.

3. CONDUIT ATTACHED TO STRUCTURE SHALL BE RIGID GALVANIZED STEEL UNLESS NOTED OTHERWISE. ALL HARDWARE AND CONDUIT APPURTENANCES, AS NOTED ABOVE, SHALL BE GALVANIZED. ANY CONDUIT THAT PENETRATES THE GROUND SHALL BE STAINLESS STEEL.

4. LUMINAIRE LOCATIONS ON THIS SHEET ARE DIAGRAMMATIC. SEE SHEET 10.

5. SEE LIGHTING SHEET 9 FOR BILL OF MATERIALS FOR THIS SHEET.



SECTION A-A
(UNDERPASS LIGHTING ON PIER)

MAURER-STUTZ ENGINEERS SURVEYORS

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	PLOT DATE = 1/29/2014 12:02:17 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
LIGHTING - ILLINOIS ROUTE 6

SCALE: | SHEET 11 OF 19 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	279
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

LEGEND

- 50W LED CEILING MOUNTED LUMINAIRE WITH VANDAL RESISTANT APPLICATION
- PROPOSED JUNCTION BOX, SIZE AND TYPE AS NOTED
- PROPOSED LIGHTING CONTROLLER, POLE MOUNTED, 240V
- PROPOSED ELECTRIC SERVICE INSTALLATION

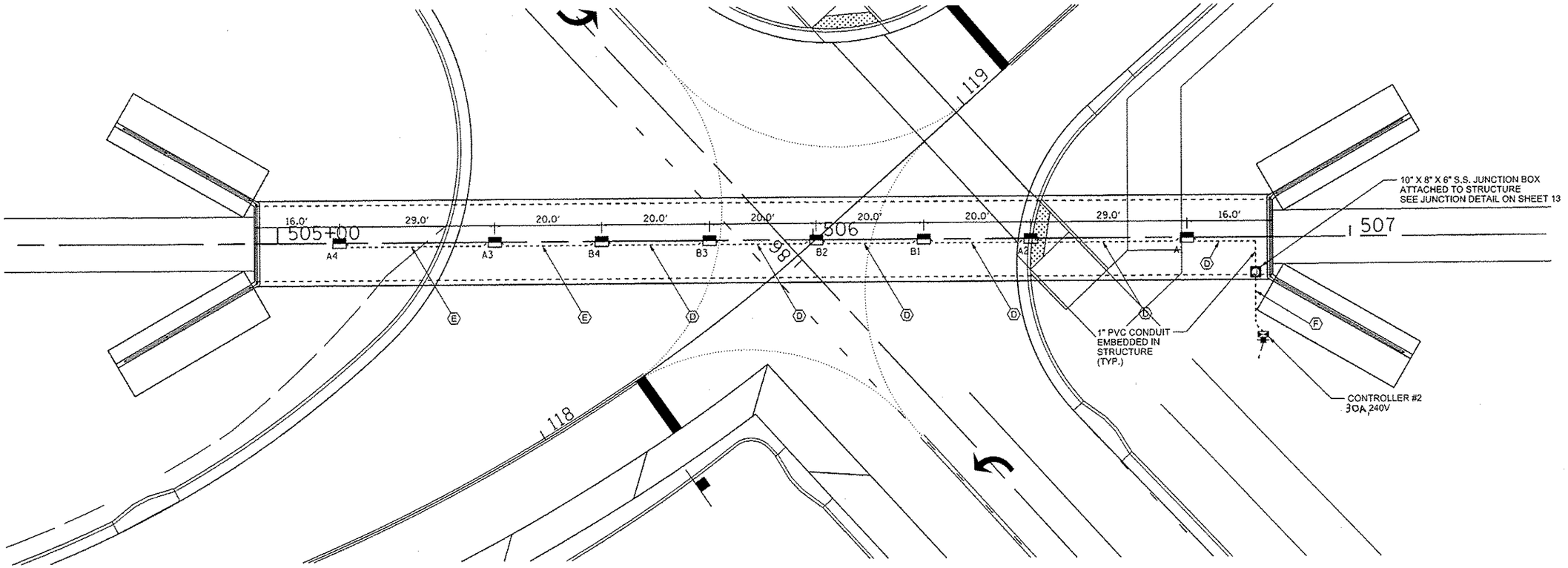
CABLE/CONDUIT SCHEDULE:

(D) 4-1/C NO. 10 AND 1/C NO. 10 GND. IN 1" PVC CONDUIT EMBEDDED IN STRUCTURE

(E) 2-1/C NO. 10 AND 1/C NO. 10 GND. IN 1" PVC CONDUIT EMBEDDED IN STRUCTURE

(F) 4-1/C NO. 10 AND 1/C NO. 10 GND. IN 1" UNDERGROUND PVC CONDUIT

BILL OF MATERIALS - ROCK ISLAND TRAIL TUNNEL		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
ELECTRIC SERVICE INSTALLATION	EACH	1.0
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	10.6
CONDUIT EMBEDDED IN STRUCTURE, 1" DIA., PVC	FOOT	174.6
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 10" X 8" X 6"	EACH	1.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	848.0
LUMINAIRE, LED, CEILING MOUNT, 50 WATT	EACH	8.0
LIGHTING CONTROLLER, SPECIAL	EACH	1.0



MAURER-STUTZ ENGINEERS SURVEYORS

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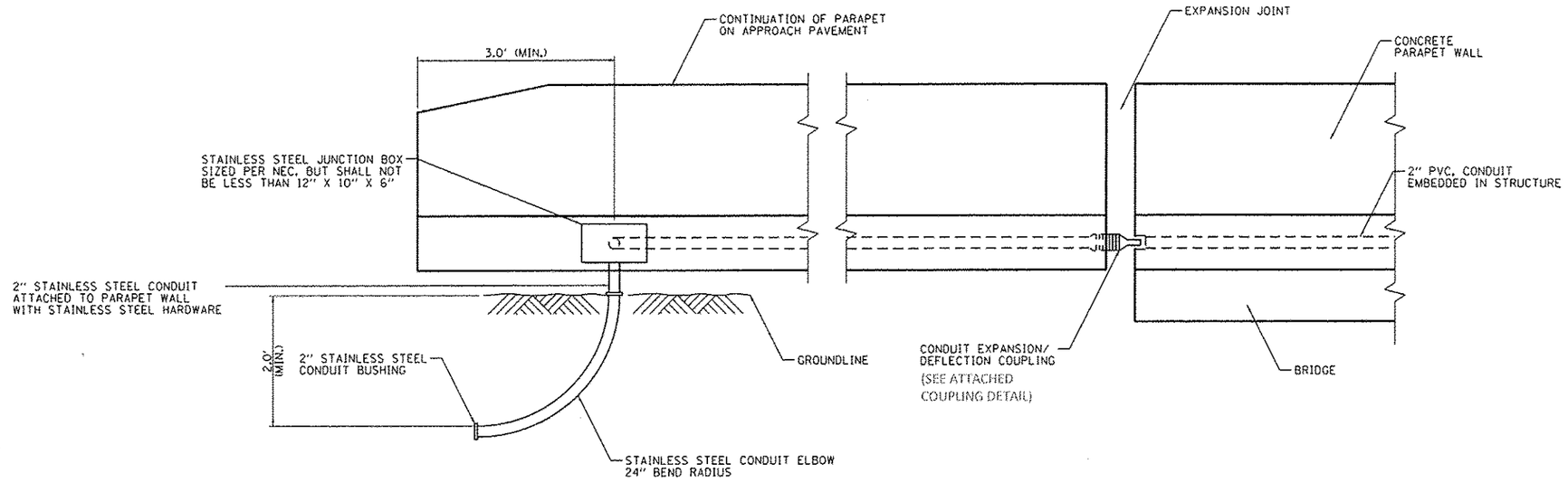
	PLOT DATE = 1/29/2014 12:12:18 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

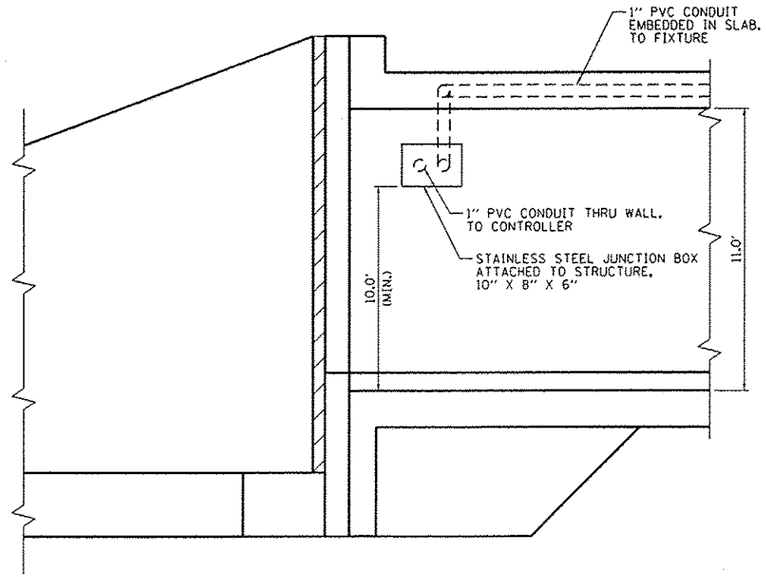
ALLEN ROAD IMPROVEMENTS
LIGHTING - ROCK ISLAND TRAIL TUNNEL

SCALE: | SHEET 12 OF 19 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105: (72-7HB)BY	PEORIA	487	280
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



PARAPET CONDUIT DETAIL (ALLEN ROAD BRIDGE)



JUNCTION DETAIL (ROCK ISLAND TRAIL TUNNEL)

NOTES:

1. STAINLESS STEEL CONDUIT, COUPLINGS, AND ELBOWS SHALL BE ACCORDING TO SECTION 810 OF THE STANDARD SPECIFICATIONS, AS APPLICABLE, SHALL BE TYPE 304 OR TYPE 316, AND SHALL BE MANUFACTURED ACCORDING TO UL STANDARD 6A AND ANSI STANDARD C 80.1.

2. CONDUIT FITTINGS SHALL BE THE THREADED TYPE, SHALL BE TYPE 304 OR TYPE 316 STAINLESS STEEL, AND SHALL BE MANUFACTURED ACCORDING TO UL STANDARD 514B.

MAURER-STUTZ ENGINEERS SURVEYORS

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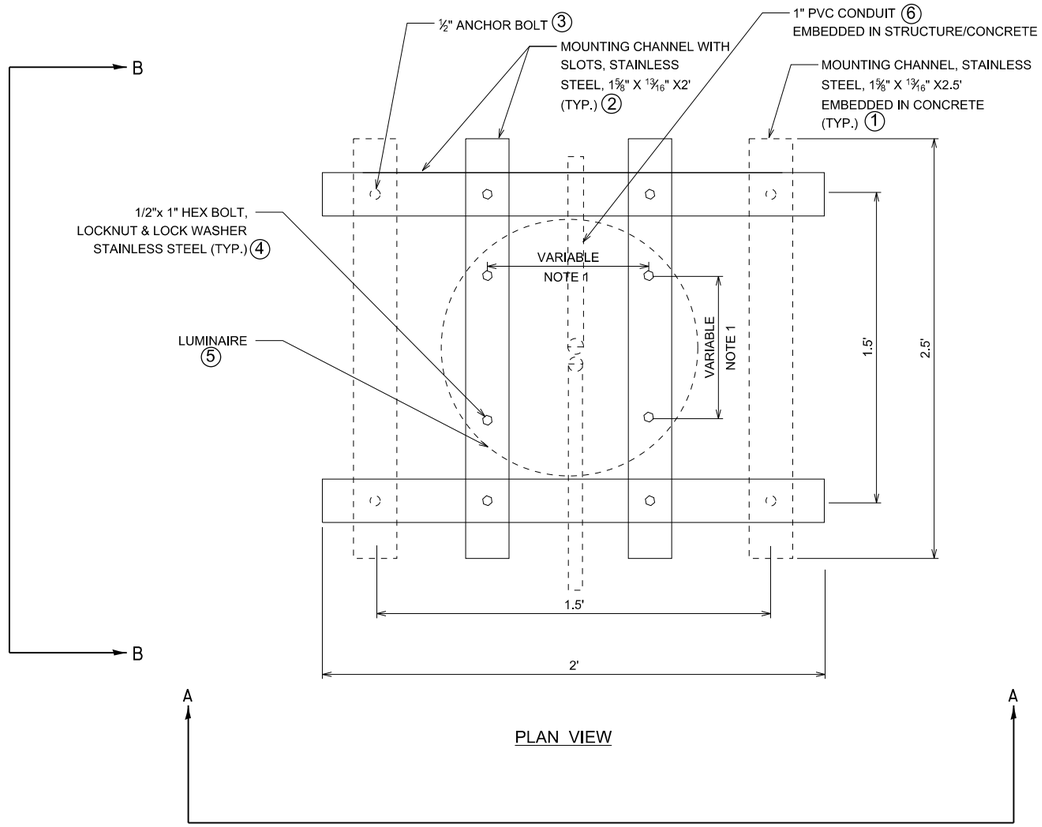
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

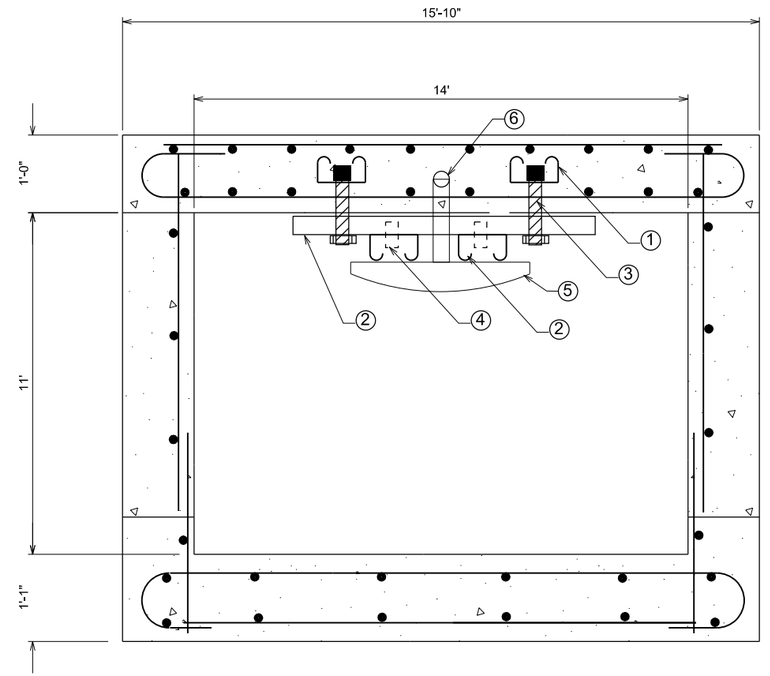
ALLEN ROAD IMPROVEMENTS
LIGHTING - CONDUIT DETAILS

SCALE: | SHEET 13 OF 19 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-THB)BY	PEORIA	487	281
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

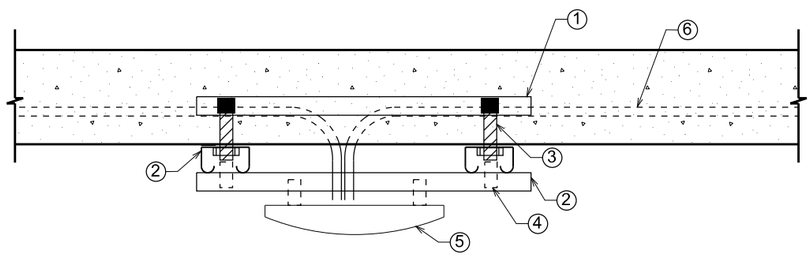


PLAN VIEW



SECTION A-A

NOTE:
1. THE DISTANCE AS PER LUMINAIRE MANUFACTURE RECOMMENDATION.



SECTION B-B

LUMINAIRE MOUNTING DETAILS
NOT TO SCALE

MAURER-STUTZ ENGINEERS SURVEYORS

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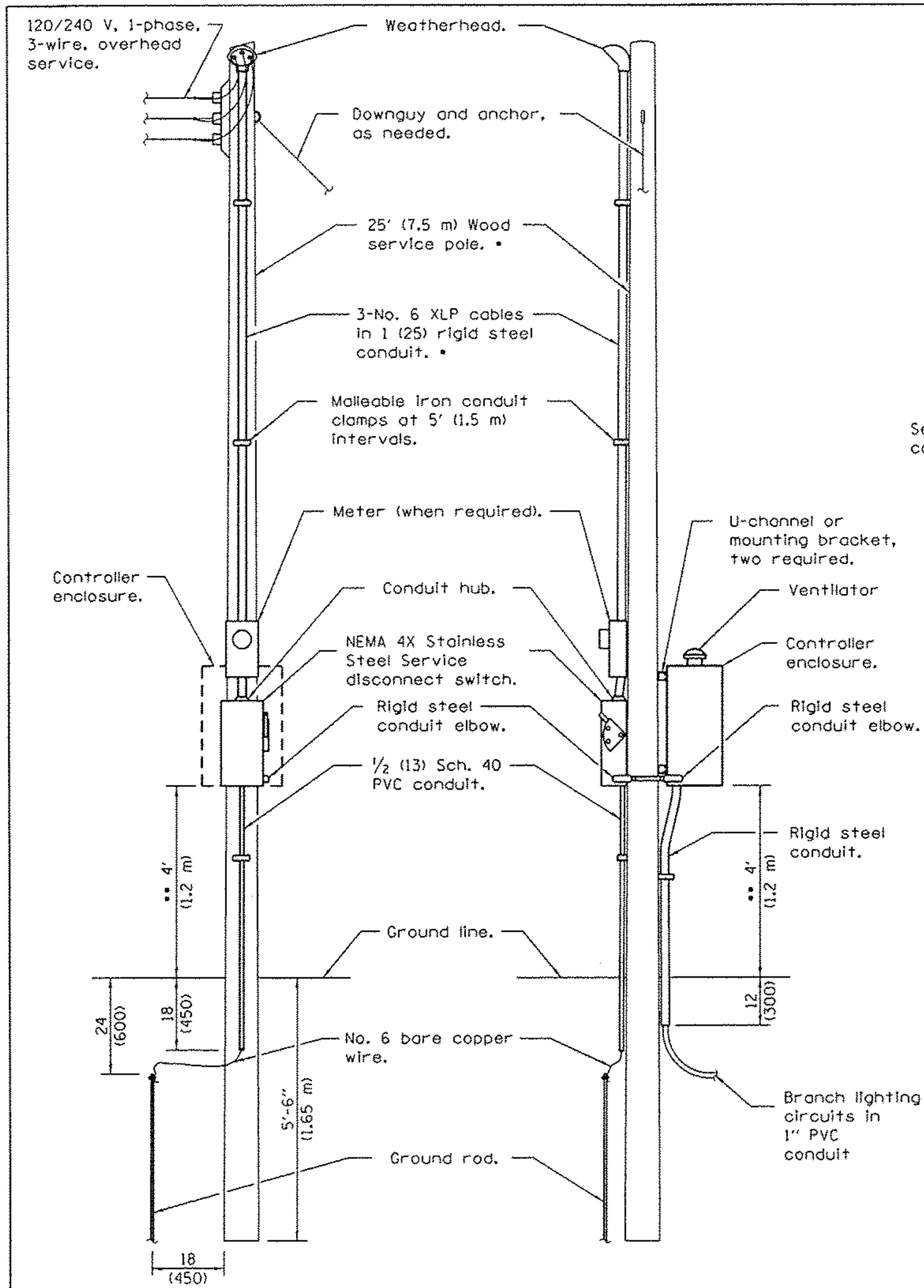
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
LIGHTING – TUNNEL LUMINAIRE MOUNTING DETAILS

SCALE: | SHEET 14 OF 19 SHEETS | STA. | TO STA.

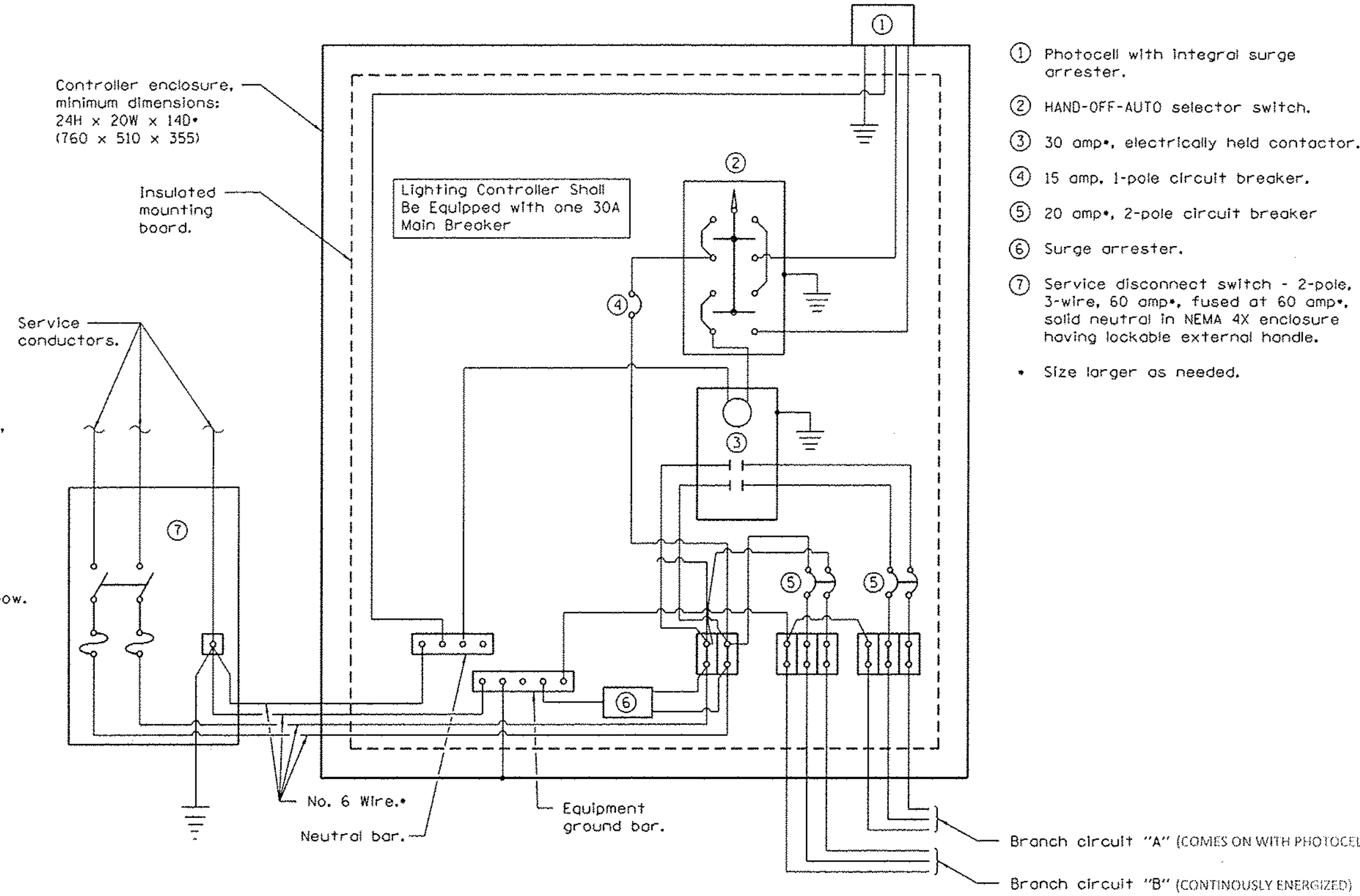
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	282
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

30 AMP



ELECTRIC SERVICE INSTALLATION

• Size larger as needed.
•• Or as directed by Utility Company.



CONTROL SCHEMATIC

① Photocell with integral surge arrester.

② HAND-OFF-AUTO selector switch.

③ 30 amp•, electrically held contactor.

④ 15 amp, 1-pole circuit breaker.

⑤ 20 amp•, 2-pole circuit breaker

⑥ Surge arrester.

⑦ Service disconnect switch - 2-pole, 3-wire, 60 amp•, fused at 60 amp•, solid neutral in NEMA 4X enclosure having lockable external handle.

• Size larger as needed.

GENERAL NOTES

PROVIDE ENGRAVED NAMEPLATE ON FRONT OF ENCLOSURE READING "TUNNEL LIGHTING".

ENCLOSURES SHALL BE MOUNTED TO POLE WITH POLE-BANDS AND LAG-BOLTS.

PROVIDE 12X9X1 (305X225X25) WATERTIGHT POUCH MOUNTED INSIDE CONTROLLER DOOR WITH AS-BUILT PLANS AND SCHEMATICS.

USE UNDER EAVE PHOTOCELL TO MAKE THE INSTALLATION MORE VANDAL RESISTANT.

ALL DIMENSIONS ARE IN INCHES (mm) UNLESS OTHERWISE SHOWN

MAURER-STUTZ ENGINEERS SURVEYORS

FILE NAME = S:\237\2013\23713809.00\AllenRdPhIII\CADD	USER NAME = baswanson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALLEN ROAD IMPROVEMENTS LIGHTING - TUNNEL LIGHTING CONTROLLER POLE MOUNTED	F.A.U. RTE. 6584 / 6585; SECTION 105; (72-7HB)BY; COUNTY PEORIA; TOTAL SHEETS 487; SHEET NO. 283
	CADD Sheets\D468683-sht-lighting 15.dgn	DRAWN -	REVISED -			CONTRACT NO. 68683
	PLOT SCALE = 0.9990 ' / in.	CHECKED -	REVISED -		SCALE: SHEET 15 OF 19 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT
Default	PLOT DATE = 1/29/2014 12:12:20 PM	DATE -	REVISED -			

Luminaires shall be according to Section 821 of the Standard Specifications and as follows:

ILLINOIS DEPARTMENT OF TRANSPORTATION
UNDERPASS LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	24 FT
	Number Of Lanes (In Direction of Travel)	2
	Median Width	0 FT
	IES Surface Classification	R3
	Q-Zero Value	.07
MOUNTING DATA:	Mounting Height	15 FT
	Mounting Type	Wall Mounted
	Set-Back From Edge Of Pavement	30 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	16,000
	IES Vertical Distribution	S
	IES Control Of Distribution	N
	IES Lateral Distribution	4
	Total Light Loss Factor	0.60
LAYOUT DATA:	Spacing	35 FT
	Configuration	Single Sided
	Luminaire Overhang Over Edge Of Pavement Lane	-15 FT

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E_{Ave})	0.90 fc
	Uniformity Ratio, (E_{Ave}/E_{Min})	3.0
LUMINANCE:	Average Luminance: (L_{Ave})	0.60 Cd/m^2
	Uniformity Ratios: (L_{Ave}/L_{Min})	3.5
	(L_{Max}/L_{Min})	6.0
	Maximum Veiling Luminance Ratio: (L_v/L_{Ave})	0.30

150W UNDERPASS LUMINAIRE PERFORMANCE TABLE

IL ROUTE 6 UNDERPASS

Luminaires shall be according to Section 821 of the Standard Specifications and as follows:

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE – PROPOSED LIGHTING

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	16 FT
	Number Of Lanes (In Direction of Travel)	1
	Median Width	FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	45 FT
	Mast Arm Length	15 FT
	Pole Set-Back From Edge Of Pavement	20 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	28,500
	IES Vertical Distribution	M
	IES Control Of Distribution	C
	IES Lateral Distribution	3
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	170 FT
	Configuration	One Sided
	Luminaire Overhang Over Edge Of Pavement Lane	-5 FT

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E_{Ave})	0.9 fc
	Uniformity Ratio, (E_{Ave}/E_{Min})	3.0
LUMINANCE:	Average Luminance: (L_{Ave})	0.60 Cd/m^2
	Uniformity Ratios: (L_{Ave}/L_{Min})	3.5
	(L_{Max}/L_{Min})	6.0
	Maximum Veiling Luminance Ratio: (L_v/L_{Ave})	0.3

250W LUMINAIRE PERFORMANCE TABLE
WITH ONE-SIDED CONFIGURATION

IL ROUTE 6

Luminaires shall be according to Section 821 of the Standard Specifications and as follows:

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE – PROPOSED LIGHTING

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	24 FT
	Number Of Lanes (In Direction of Travel)	2
	Median Width	16 FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	50 FT
	Mast Arm Length	15 FT
	Pole Set-Back From Edge Of Pavement	15 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	50,000
	IES Vertical Distribution	M
	IES Control Of Distribution	C
	IES Lateral Distribution	3
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	380 FT
	Configuration	Staggered
	Luminaire Overhang Over Edge Of Pavement Lane	0 FT

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E_{Ave})	0.9 fc
	Uniformity Ratio, (E_{Ave}/E_{Min})	3.0
LUMINANCE:	Average Luminance: (L_{Ave})	0.60 Cd/m^2
	Uniformity Ratios: (L_{Ave}/L_{Min})	3.5
	(L_{Max}/L_{Min})	6.0
	Maximum Veiling Luminance Ratio: (L_v/L_{Ave})	0.3

400W LUMINAIRE PERFORMANCE TABLE
WITH STAGGERED CONFIGURATION

ALLEN ROAD

MAURER-STUTZ ENGINEERS SURVEYORS

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		DRAWN -	REVISED -
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Default	PLOT DATE = 1/29/2014 12:12:20 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
LIGHTING – LUMINAIRE PERFORMANCE TABLES

SCALE: | SHEET 16 OF 19 SHEETS | STA. | TO STA.

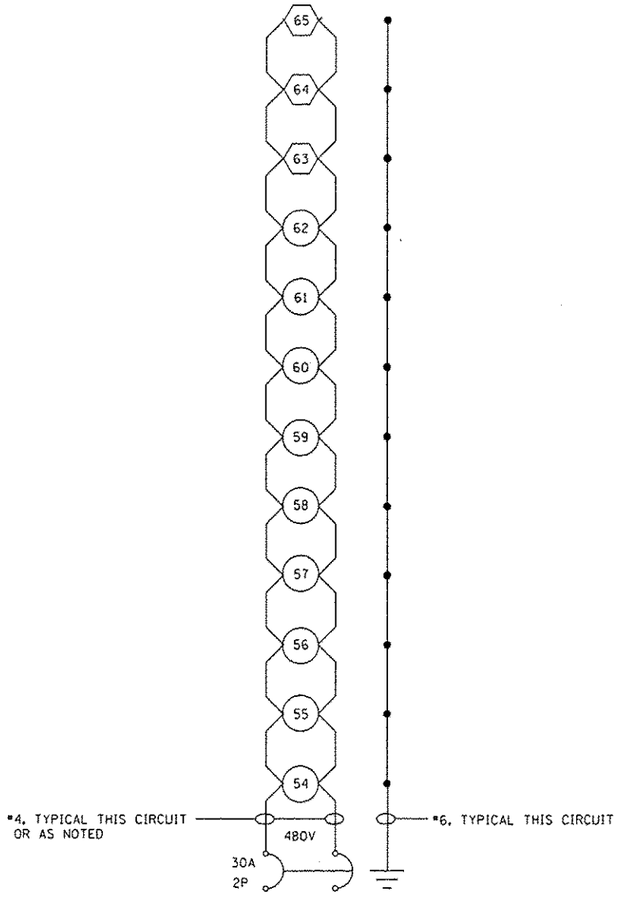
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	284
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

NOTES:

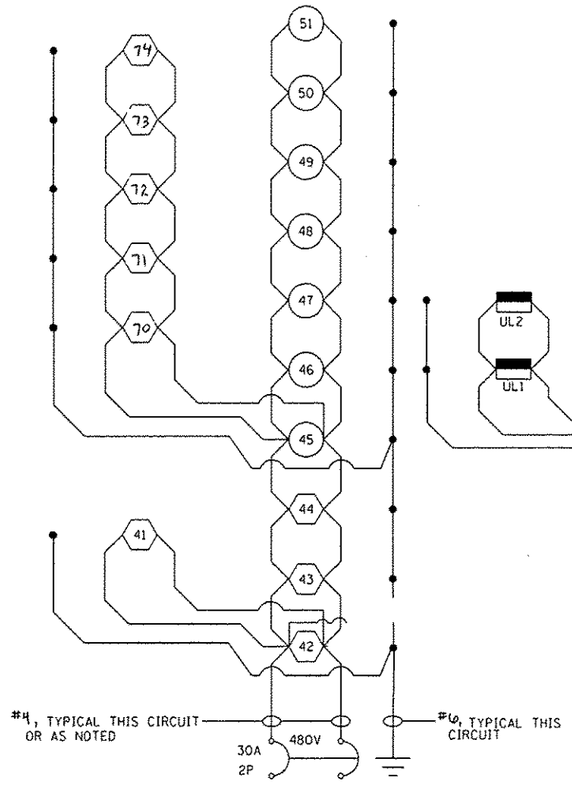
1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

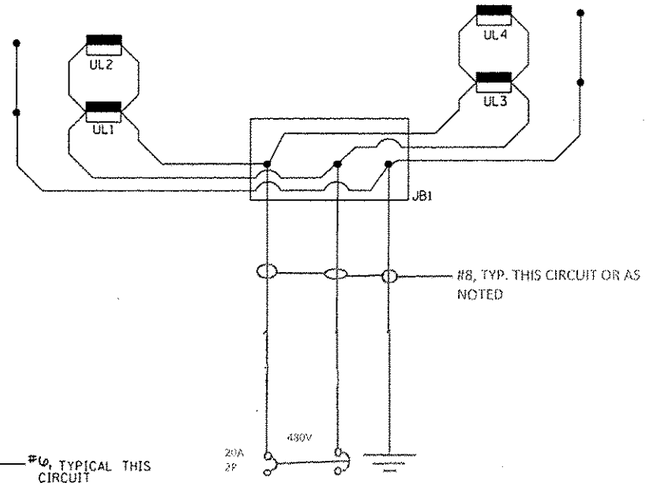
- ⬡ 400W PROPOSED LUMINAIRE
- ◯ 250W PROPOSED LUMINAIRE
- ▬ 150W HPS UNDERPASS LUMINAIRE
- ▭ JUNCTION BOX

WIRING DIAGRAM (PROPOSED CONTROLLER # 1)



LIGHTING CKT 1 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED
ALLEN ROAD/IL ROUTE 6





LIGHTING CKT 5 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED
IL ROUT 6

LIGHTING CKT 2 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED
IL ROUTE 6

MAURER-STUTZ ENGINEERS SURVEYORS

FILE NAME = S:\237\2013\23713089.00\Allen\Rd\PNII\CADD\Default	USER NAME = boswanson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALLEN ROAD IMPROVEMENTS LIGHTING – WIRING DIAGRAM DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CADD Sheets\D468683-sht-lighting 17.dgn	DRAWN -	REVISED -			6584	105; 172-7HBIBY	PEORIA	487	285
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	PLOT DATE = 1/29/2014 12:12:28 PM	DATE -	REVISED -		SCALE: SHEET 17 OF 19 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

NOTES:

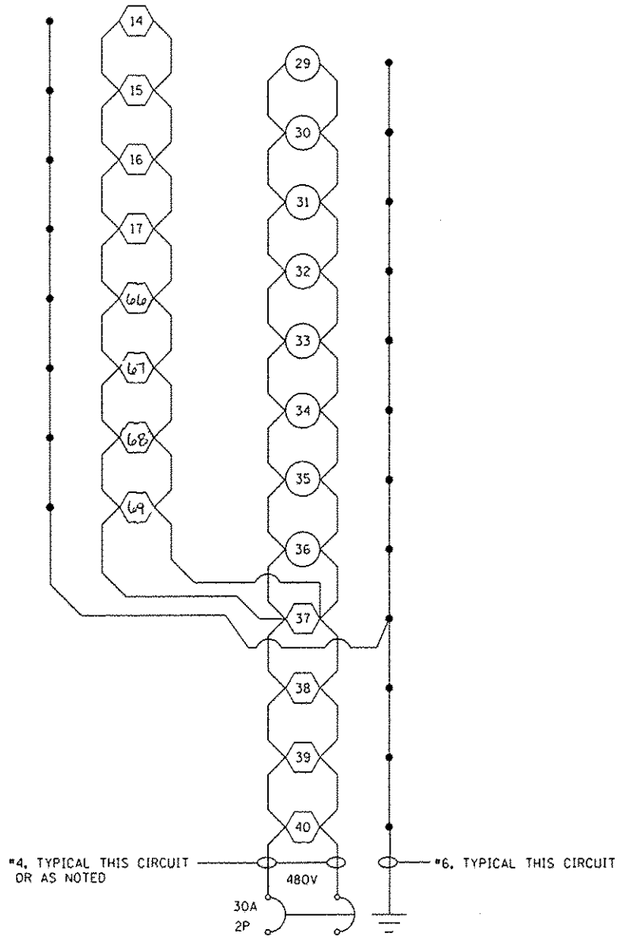
1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

⬡ 400W PROPOSED LUMINAIRE

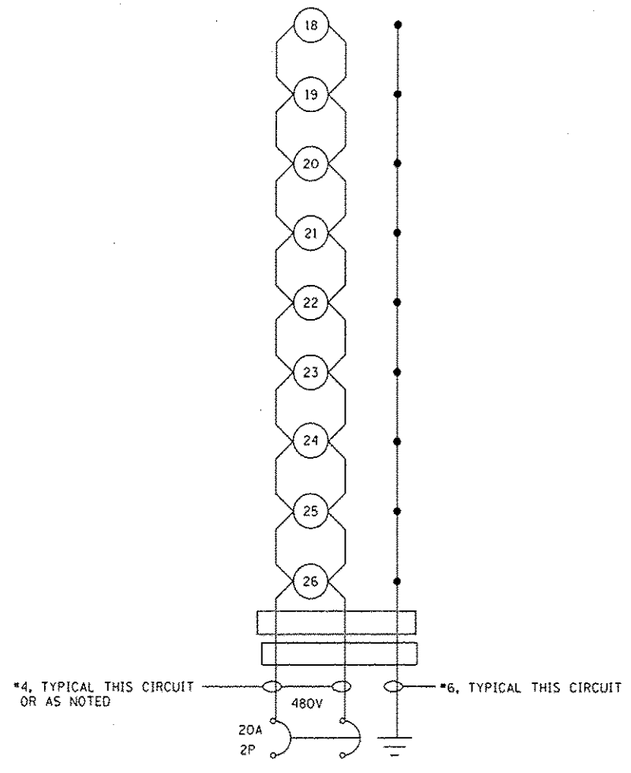
◯ 250W PROPOSED LUMINAIRE

▭ JUNCTION BOX

WIRING DIAGRAM (PROPOSED CONTROLLER # 1)



LIGHTING CKT 3 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED
IL ROUTE 6



LIGHTING CKT 4 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED
ALLEN ROAD/IL ROUTE 6

MAURER-STUTZ ENGINEERS SURVEYORS

FILE NAME = S:\237\2013\23713009.00\AllenRdPhIII\CADD\Default	USER NAME = baswanson	DESIGNED -	REVISED -
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	PLOT DATE = 1/29/2014 12:12:29 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
LIGHTING – WIRING DIAGRAM DETAILS

SCALE: | SHEET 18 OF 19 SHEETS | STA. | TO STA.

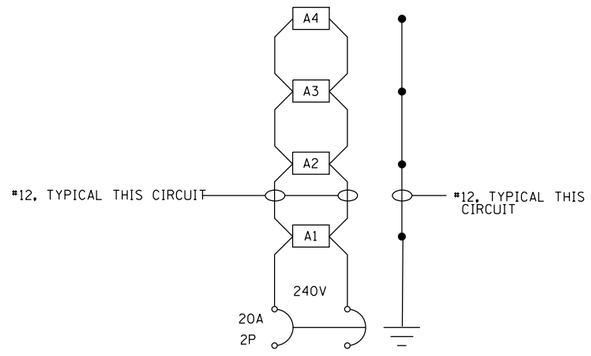
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	286
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

WIRING DIAGRAM (PROPOSED CONTROLLER # 2)

NOTES:

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

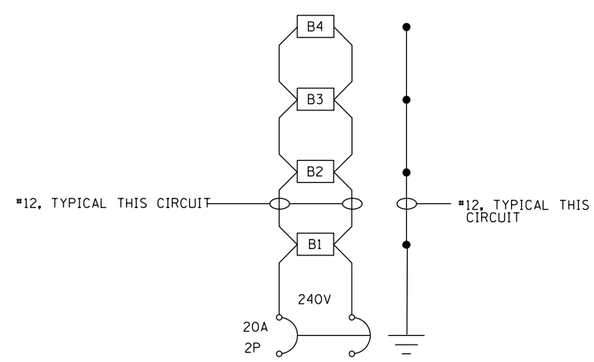
▭ 50W LED LUMINAIRE



LIGHTING CKT A (PROPOSED)
PROPOSED LIGHTING CONTROLLER POLE MOUNTED

ENERGIZE DURING NIGHT TIME ONLY

ROCK ISLAND TRAIL TUNNEL



LIGHTING CKT B (PROPOSED)
PROPOSED LIGHTING CONTROLLER POLE MOUNTED

ENGERGIZE ALL THE TIME

ROCK ISLAND TRAIL TUNNEL

MAURER-STUTZ ENGINEERS SURVEYORS

FILE NAME = S:\237\2013\2371300900\AllenRdPhII\CADD\Default	USER NAME = baswanson	DESIGNED -	REVISED -
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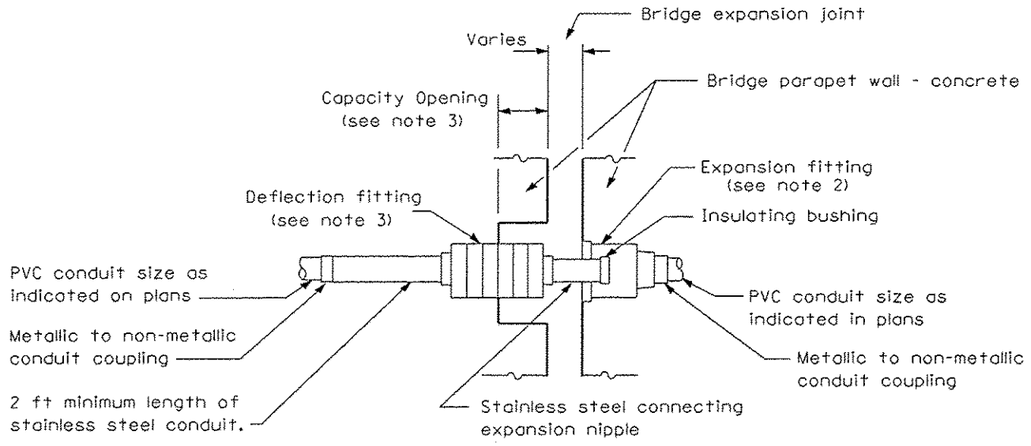
	PLOT DATE = 1/29/2014 12:12:29 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
LIGHTING - WIRING DIAGRAM DETAILS

SCALE: | SHEET 19 OF 19 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105; (72-7HB)BY	PEORIA	487	287
6585		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



CONDUIT EXPANSION/
DEFLECTION COUPLING DETAIL

GENERAL NOTES

The Contractor shall install a conduit expansion/deflection coupling at the joints in the concrete parapet on the bridge capable of accepting the longitudinal movement. All metallic parts of the coupling shall be made of stainless steel or as approved by the Engineer. Any non-stainless metal shall be hot dip galvanized and coated to prevent reaction with the concrete. The cost of the coupling shall be part of and incidental to the conduit system.

The barrel in the expansion fitting shall be fully embedded in the concrete on one side of the expansion joint. One half the length of the deflection fitting shall be embedded in the concrete on the other side of the coupling.

A cavity opening 3" larger in diameter than the deflection fitting shall be provided in the concrete to ensure proper performance of the coupling.

Careful attention to joint movement over a range of temperatures shall be coordinated with the selection and installation of the coupling to ensure the range of movement of the coupling is not exceeded at temperature extremes.

All manufacturer's installation instructions shall be carefully followed to ensure optimum performance of the expansion/deflection coupling.

The Contractor shall install couplings at all bridge expansion joints and shall be responsible to determine the proper number of couplings required.

With the approval of the Engineer, the Contractor may substitute two (2) stainless steel junction boxes attached to the back of the wall and connected by a high grade of flexible non-metallic conduit for all expansion joints. This substitution shall be made at no cost to the Department.

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

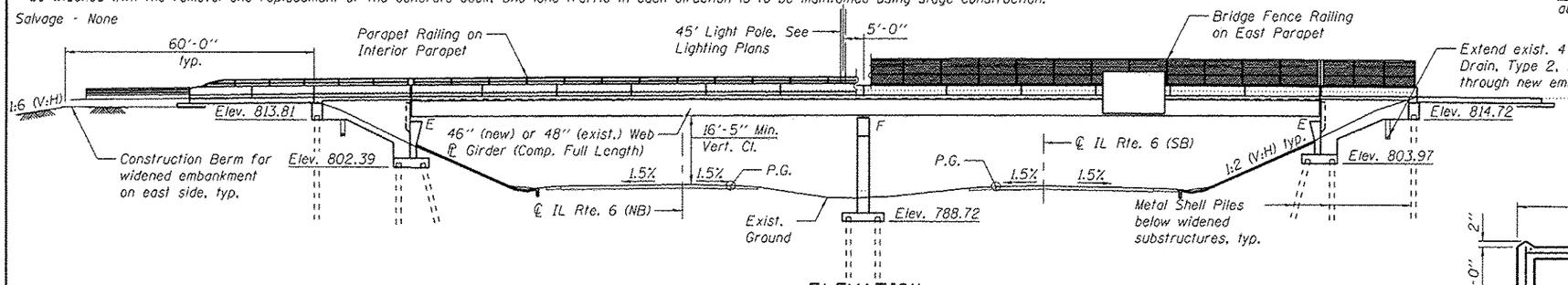
DATE	REVISIONS
7/31/08	Updated

CONDUIT COUPLING EXPANSION / DEFLECTION

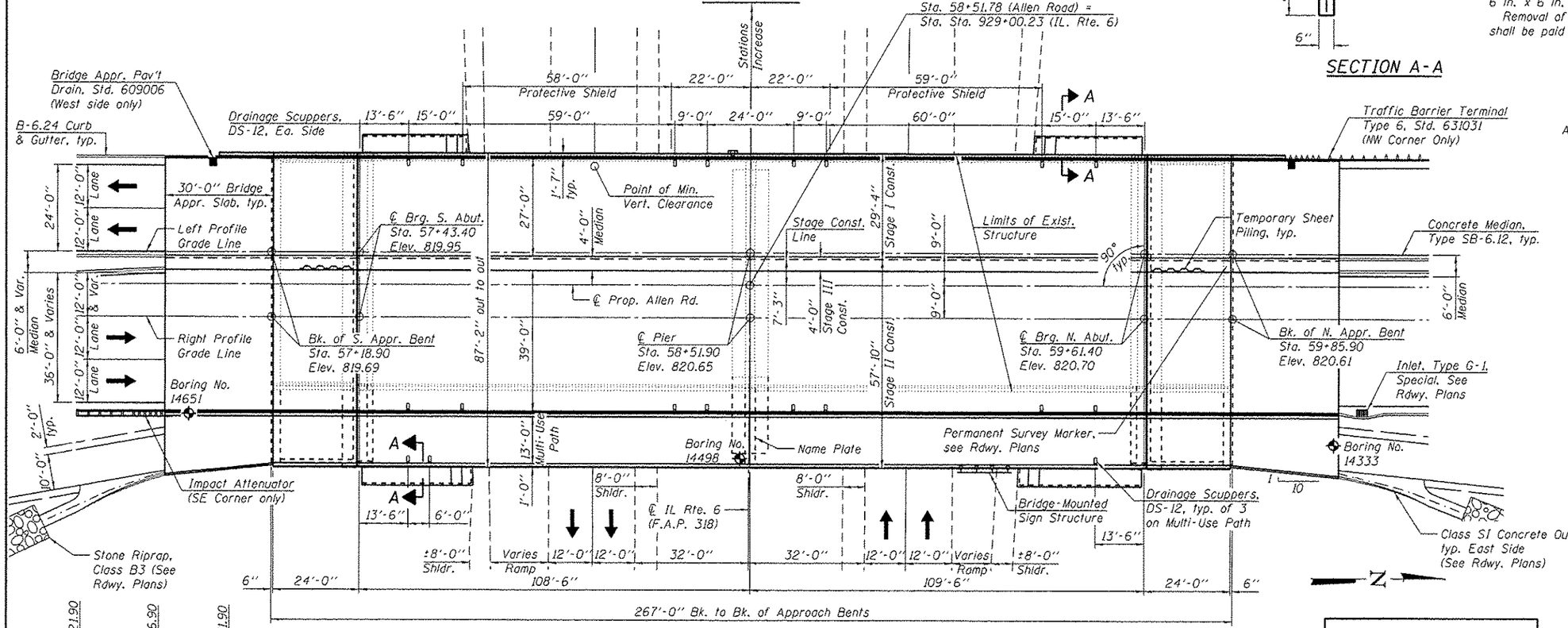
Bench Mark - Brass Disk in top of pier crash wall near east end of pier (S.N. 072-0146) Station 58+51.90, Elev. 797.07

Existing Structure - S.N. 072-0146: Built in 1981 as F.A. 405 Section 72-7HB at Station 929+03.18. Original structure is a 2-span continuous steel 48" welded plate girder supported by vaulted abutments and a concrete pier on a spread footing. The bridge deck geometry was reconfigured in 2002 as Allen Road Improvements, Section 105-WSI. The improvement involved the removal of 5'-6" of the concrete median, placement of a 6" concrete curb and installation of a thin polymer concrete wearing surface over the northbound driving lanes and shoulder. The structure is 267'-0" bk. to bk. appr. bents and 65'-2" out to out of deck. Structure is to be widened with the removal and replacement of the concrete deck. One lane traffic in each direction is to be maintained using stage construction.

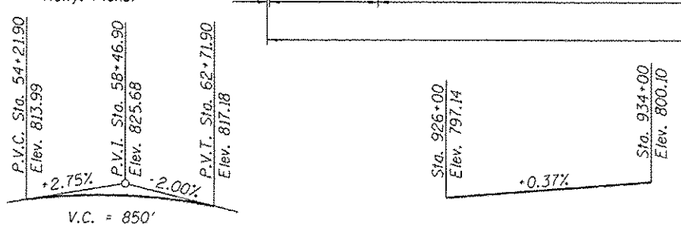
Salvage - None



ELEVATION



PLAN



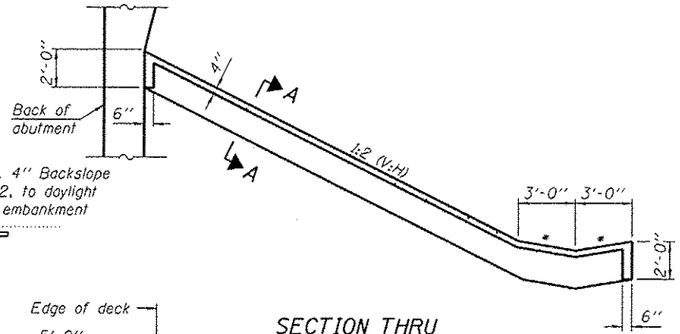
PROFILE GRADE ALLEN RD.
(Along inside edge of SB & NB traveled lanes)

PROFILE GRADE IL RTE. 6
(Along Inside Edge of Pav't for NB and SB IL Rte. 6)

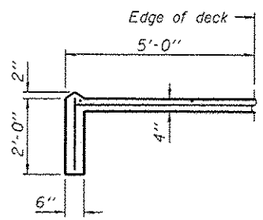
APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

BRYAN A. SWANSON 081-006716 PEORIA, IL STRUCTURAL ENGINEER STATE OF ILLINOIS

Date Signed: 1/24/2014
Exp. Date: 11/30/2014



SECTION THRU CONCRETE SLOPEWALL * 1:6 (V:H)



SECTION A-A

Notes:
Slope wall shall be reinforced with galvanized welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
Removal of the existing asphalt-coated aggregate slopewall shall be paid for as Slope Wall Removal.

LOADING HS 20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

NEW CONSTRUCTION

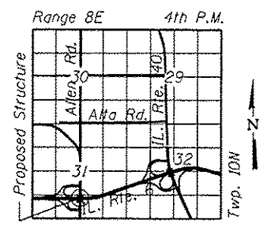
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 36,000 psi (structural steel)

EXISTING CONSTRUCTION

f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 36,000 psi (structural steel)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = .042g
Site Coefficient (S) = 1.0



LOCATION SKETCH

STATION 929+03.18
BUILT 201 BY
STATE OF ILLINOIS
F.A.P. RT. 318 SEC. (72-7HB)BY
LOADING HS 20
STR. NO. 072-0146

NAME PLATE
See Std. 515001

GENERAL PLAN AND ELEVATION
ALLEN ROAD OVER IL RTE. 6
F.A.P. RTE. 318 SEC. (72-7HB)BY
PEORIA COUNTY
STATION 929+03.18
STRUCTURE NO. 072-0146

FILE NAME = 072014G-68683-001-GPE.dgn	USER NAME = baswanson	DESIGNED - BAS	REVISED
MAURER-STUTZ ENGINEERS SURVEYORS		CHECKED - JAE	REVISED
	PLOT SCALE =	DRAWN - BAS	REVISED
	PLOT DATE = 1/24/2014	CHECKED - RAL	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	172-7HB)BY	PEORIA	487	288
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts $^{7}/_{8}$ in. ϕ, holes $^{15}/_{16}$ in. ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 166,420 lbs.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in Removal of Existing Concrete Deck.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding $^{1}/_{4}$ inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $^{1}/_{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Concrete Sealer shall be applied to exposed surfaces of the backwall, bearing seats, and front face of the new abutment concrete.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The primer coat shall be applied in the shop, but the final two coats shall be applied in the field in coordination with the painting of existing structural steel. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8. Painting the new structural steel shall be included in the cost of Furnishing and Erecting Structural Steel.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning - SSPC-SP10. All existing steel shall be painted according to the requirements of Paint System 1, OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

Slipforming of the parapets is not allowed.

The bridge-mounted sign structure must be secured to the east parapet prior to installation of the bridge fence railing.

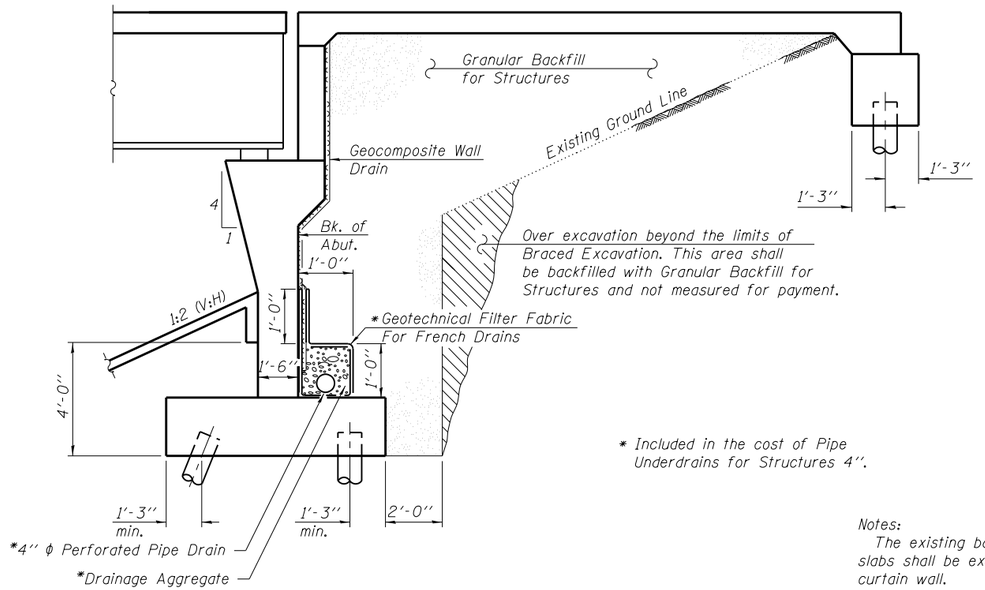
INDEX OF SHEETS

SCOPE OF WORK

1. Remove existing bridge deck and approach spans.
2. Extend existing substructure units to the east.
3. Remove and replace abutment bearings with Elastomeric Bearings.
4. Remove and replace existing abutment diaphragms.
5. Remove and replace existing abutment backwalls.
6. Install three new rows of steel girders.
7. Install stud shear connectors in negative moment regions of existing beams
8. Clean and paint existing and new steel.
9. Pour new widened bridge deck and approach spans using stage construction.
10. Repair existing concrete substructure units.
11. Remove and replace existing slope wall with concrete slope wall.
12. Remove traffic sign structure and replace with new sign structure on east parapet.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.		23.2	23.2
Slope Wall Removal	Sq. Yd.		472	472
Removal of Existing Concrete Deck	Each	1		1
Protective Shield	Sq. Yd.	847		847
Structure Excavation	Cu. Yd.		268	268
Concrete Structures	Cu. Yd.		240.3	240.3
Concrete Superstructure	Cu. Yd.	1095.0		1095.0
Bridge Deck Grooving	Sq. Yd.	2243		2243
Protective Coat	Sq. Yd.	3517		3517
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	2574		2574
Reinforcement Bars, Epoxy Coated	Pound	234880	32110	266990
Bar Splicers	Each	899	100	999
Bridge Fence Railing	Foot	265		265
Parapet Railing	Foot	321		321
Slope Wall 4 Inch	Sq. Yd.		737	737
Furnishing Metal Shell Piles 12" x 0.250"	Foot		969	969
Furnishing Metal Shell Piles 14" x 0.312"	Foot		441	441
Driving Piles	Foot		1410	1410
Test Pile Metal Shells	Each		2	2
Name Plates	Each			1
Preformed Joint Strip Seal	Foot	174		174
Elastomeric Bearing Assembly, Type I	Each	24		24
Anchor Bolts, 1"	Each	48		48
Anchor Bolts, $1^{1}/_{4}$"	Each	6		6
Concrete Sealer	Sq. Ft.		1223	1223
Geocomposite Wall Drain	Sq. Yd.		60	60
Braced Excavation	Cu. Yd.		119	119
Granular Backfill for Structures	Cu. Yd.		335	335
Jack and Remove Existing Bearings	Each	18		18
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L. Sum	1		1
Cleaning and Painting Steel Bridge No. 1	L. Sum	1		1
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.		121	121
Drainage Scuppers, DS-12	Each	19		19
Temporary Sheet Piling	Sq. Ft.		526	526
Pipe Underdrains for Structures 4"	Foot		165	165



SECTION THRU FILLED VAULTED ABUTMENT

* Included in the cost of Pipe Underdrains for Structures 4".

Notes:

The existing backslope drains below the vaulted approach slabs shall be extended to the east beyond the proposed curtain wall.

An outlet pipe shall extend from the east end of the 4" ϕ perforated pipe drain and backslope drains until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifcations and Highway Standard 601101).

Provide new concrete headwalls for the existing pipe outlets at the west end of the backslope drains. Cost of all headwalls included in Pipe Underdrains for Structures 4".

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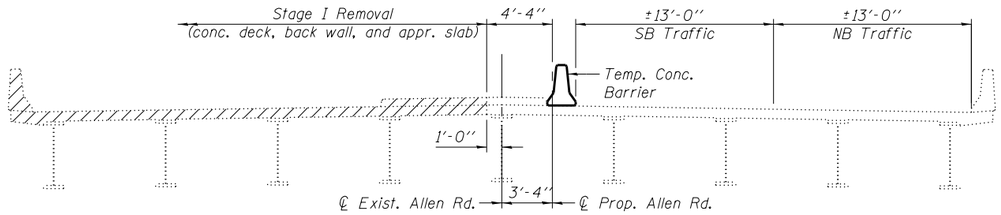
MAURER-STUTZ ENGINEERS SURVEYORS		CHECKED - JAE	REVISED
	PLOT SCALE =	DRAWN - BAS	REVISED
	PLOT DATE = 1/24/2014	CHECKED - RAL	REVISED

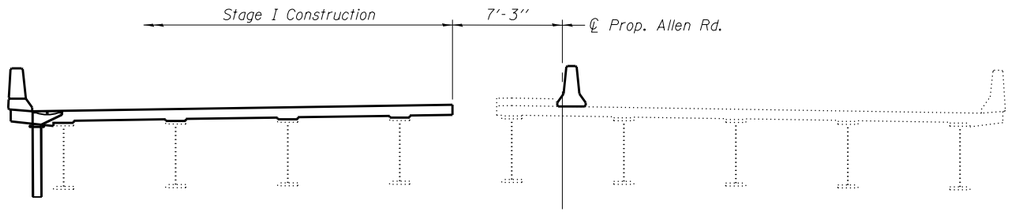
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 072-0146
SHEET NO. 2 OF 36 SHEETS

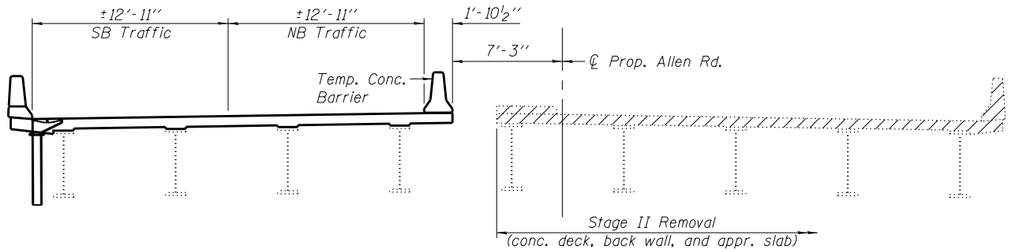
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB)BY	PEORIA	487	289
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



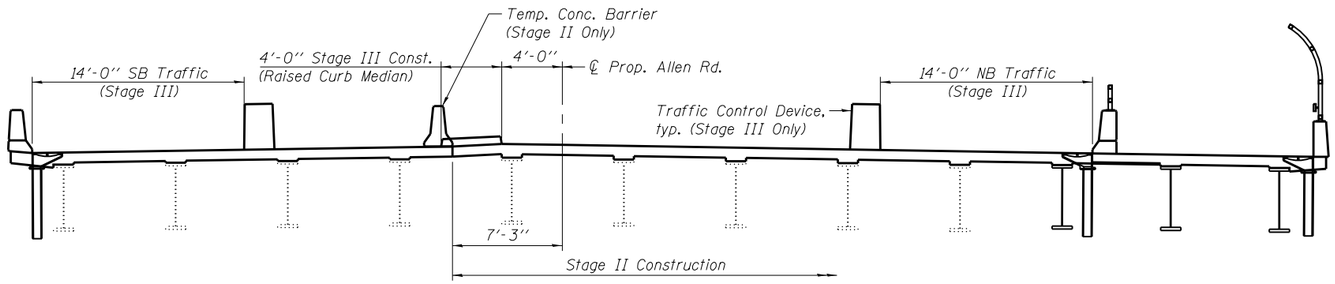
STAGE I REMOVAL



STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II & III CONSTRUCTION

Notes:

All staging cross sections are looking North.

Hatched areas indicate Removal of Existing Concrete Deck (or Approach Slab Removal on vaulted approach spans).

See Sheet 4 of 36 for details of Temporary Concrete Barrier.

See Rdwy. Plans for quantity of Temporary Concrete Barrier and Approach Slab Removal.

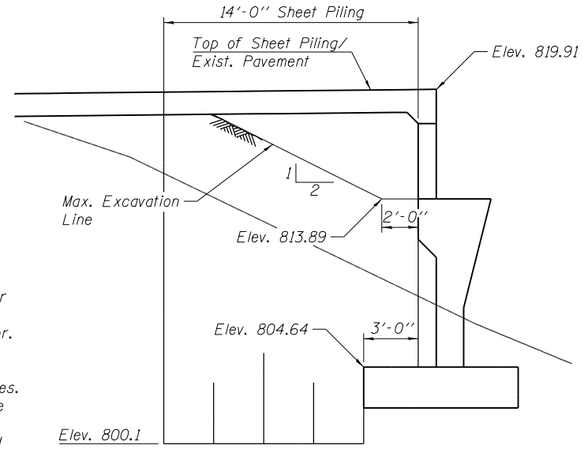
See Rdwy. Staging Plans for details of Traffic Control Devices.

Remove existing bridge-mounted sign structure prior to Stage II Removal.

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

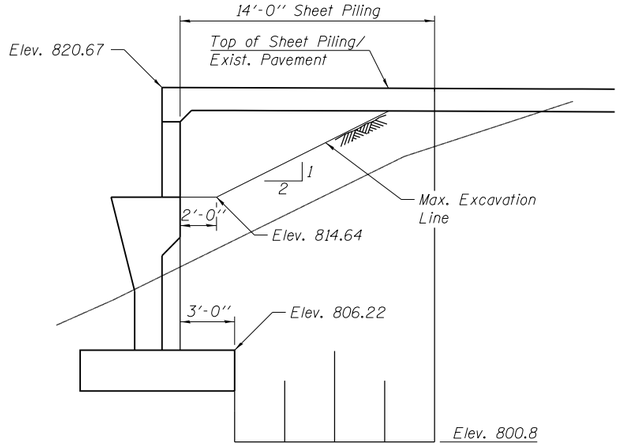
The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

The minimum section modulus of the sheet piling shall be 6.9 in³/ft.



TEMPORARY SHEET PILING SOUTH ABUTMENT

(Looking West)



TEMPORARY SHEET PILING NORTH ABUTMENT

(Looking West)

BILL OF MATERIAL

Item	Unit	Total
Temporary Sheet Piling	Sq. Ft.	526

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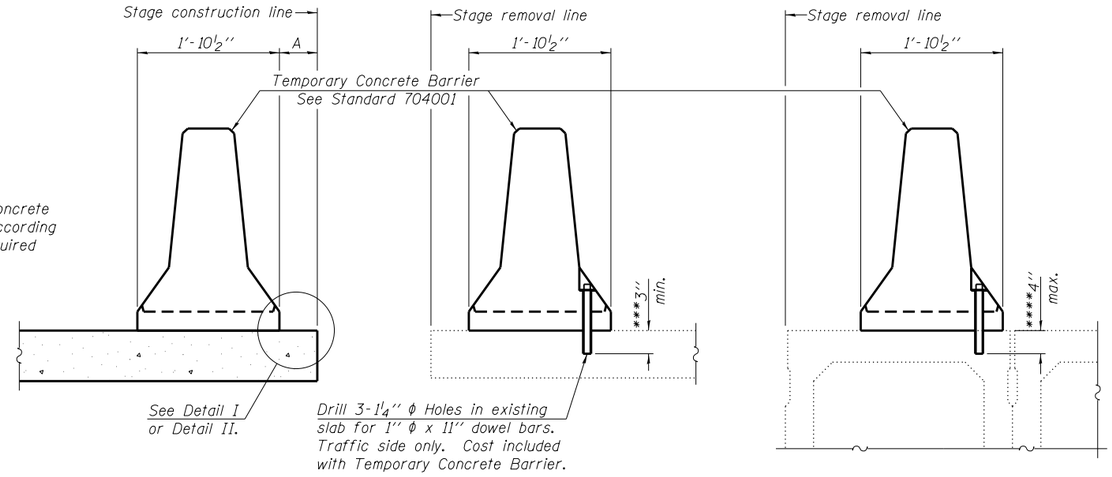
MAURER-STUTZ ENGINEERS SURVEYORS		CHECKED - JAE	REVISED
	PLOT SCALE =	DRAWN - BAS	REVISED
	PLOT DATE = 1/24/2014	CHECKED - RAL	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 072-0146
SHEET NO. 3 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB)BY	PEORIA	487	290
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

When "A" is 3'-6'' or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6''.



NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1'' x 7'' x "W" steel ℙ to the top layer of couplers with 2-⅝'' ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1'' x 7'' x "W" steel ℙ to the concrete slab or concrete wearing surface with 2-⅝'' ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

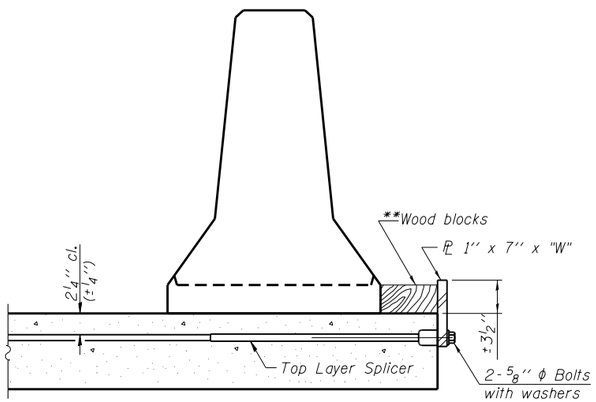
Cost of anchorage is included with Temporary Concrete Barrier.

The 1'' x 7'' x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

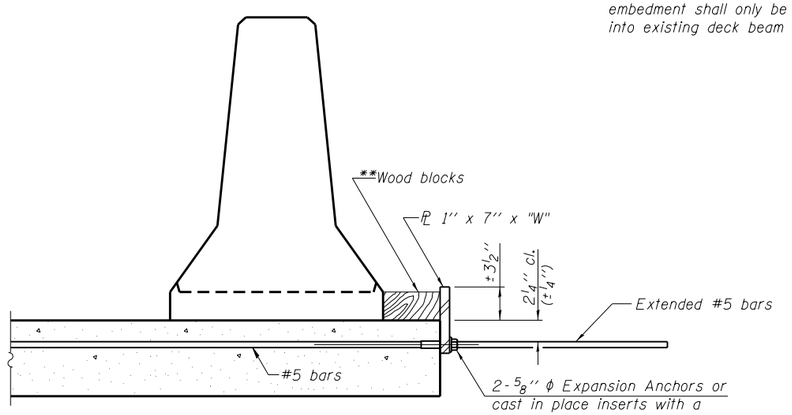
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



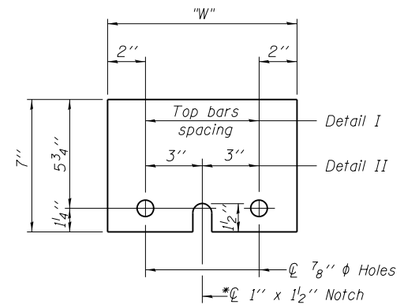
DETAIL I



DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4''



STEEL RETAINER ℙ 1'' x 7'' x ''W''

* Required only with Detail II

R-27

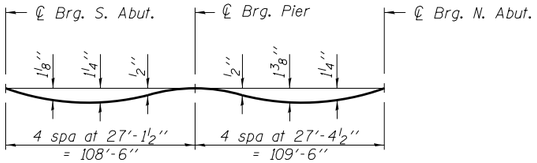
7-1-10

FILE NAME = 0720146-68683-004-Temp Barrier.dgn	USER NAME = baswanson	DESIGNED - BAS	REVISED
MAURER-STUTZ ENGINEERS SURVEYORS		CHECKED - JAE	REVISED
	PLOT SCALE =	DRAWN - BAS	REVISED
	PLOT DATE = 1/24/2014	CHECKED - RAL	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 072-0146
SHEET NO. 4 OF 36 SHEETS

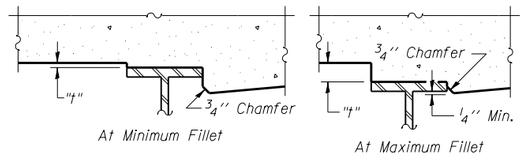
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB)BY	PEORIA	487	291
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



DEAD LOAD DEFLECTION DIAGRAM

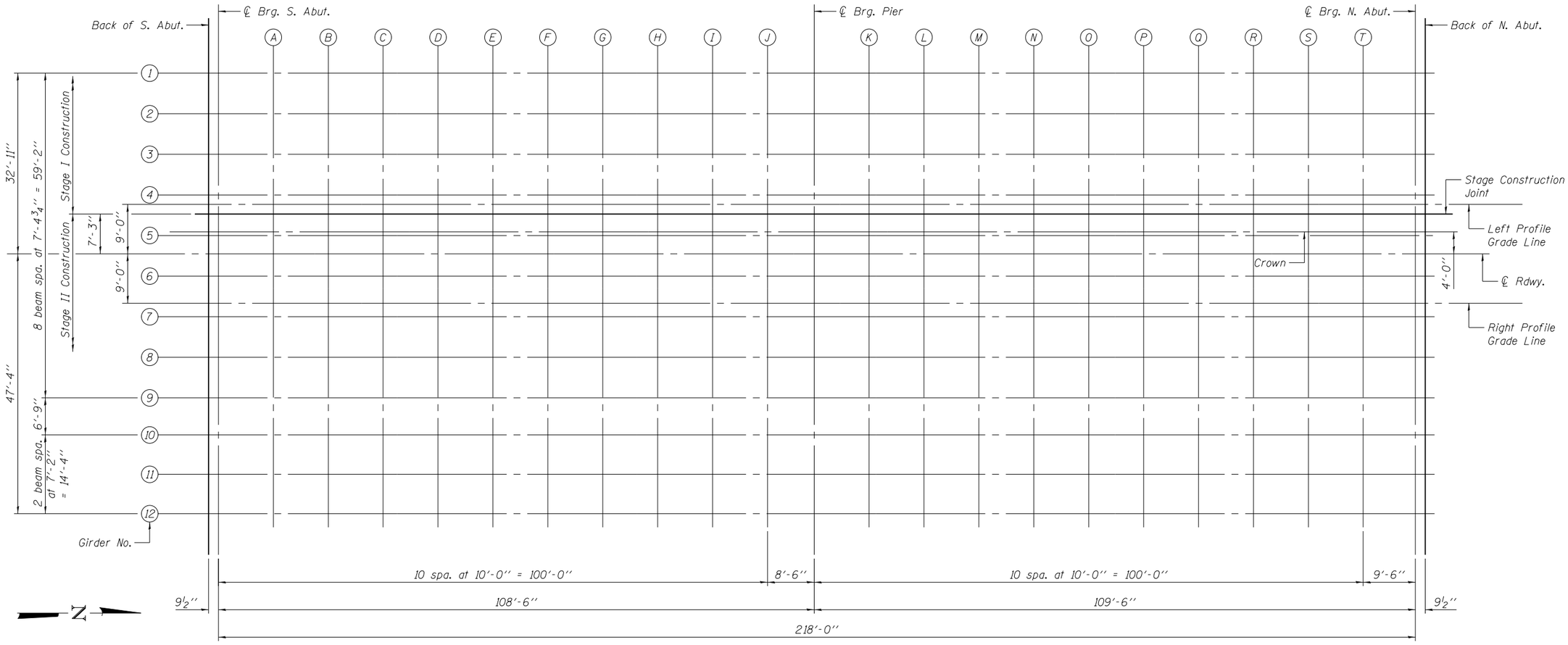
(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown in the tables on Sheets 6 thru 8 of 36.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown in the tables on Sheets 6 thru 8 of 36, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

FILE NAME = 0720146-68683-005-Elev-Slab.dgn	USER NAME = baswanson	DESIGNED - BAS	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS STRUCTURE NO. 072-0146	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MAURER-STUTZ ENGINEERS SURVEYORS		CHECKED - JAE	REVISED			318	(72-7HB)BY	PEORIA	487	292
	PLOT SCALE =	DRAWN - BAS	REVISED						CONTRACT NO. 68683	
	PLOT DATE = 1/24/2014	CHECKED - RAL	REVISED		SHEET NO. 5 OF 36 SHEETS			ILLINOIS	FED. AID PROJECT	

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	-32.92	819.56	819.56
℄ Brg. S. Abut.	57+43.40	-32.92	819.57	819.57
A	57+53.40	-32.92	819.66	819.71
B	57+63.40	-32.92	819.75	819.83
C	57+73.40	-32.92	819.83	819.94
D	57+83.40	-32.92	819.91	820.03
E	57+93.40	-32.92	819.98	820.10
F	58+03.40	-32.92	820.04	820.14
G	58+13.40	-32.92	820.10	820.18
H	58+23.40	-32.92	820.16	820.20
I	58+33.40	-32.92	820.20	820.22
J	58+43.40	-32.92	820.25	820.25
℄ Brg. Pier	58+51.90	-32.92	820.28	820.28
K	58+61.90	-32.92	820.31	820.32
L	58+71.90	-32.92	820.34	820.36
M	58+81.90	-32.92	820.36	820.41
N	58+91.90	-32.92	820.37	820.46
O	59+01.90	-32.92	820.38	820.49
P	59+11.90	-32.92	820.39	820.51
Q	59+21.90	-32.92	820.38	820.51
R	59+31.90	-32.92	820.38	820.49
S	59+41.90	-32.92	820.36	820.45
T	59+51.90	-32.92	820.35	820.39
℄ Brg. N. Abut.	59+61.40	-32.92	820.32	820.32
Bk. of N. Abut.	59+62.19	-32.92	820.32	820.32

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	-25.52	819.68	819.68
℄ Brg. S. Abut.	57+43.40	-25.52	819.69	819.69
A	57+53.40	-25.52	819.78	819.82
B	57+63.40	-25.52	819.87	819.94
C	57+73.40	-25.52	819.95	820.05
D	57+83.40	-25.52	820.02	820.13
E	57+93.40	-25.52	820.09	820.20
F	58+03.40	-25.52	820.16	820.25
G	58+13.40	-25.52	820.22	820.29
H	58+23.40	-25.52	820.27	820.31
I	58+33.40	-25.52	820.32	820.34
J	58+43.40	-25.52	820.36	820.37
℄ Brg. Pier	58+51.90	-25.52	820.39	820.39
K	58+61.90	-25.52	820.42	820.43
L	58+71.90	-25.52	820.45	820.48
M	58+81.90	-25.52	820.47	820.52
N	58+91.90	-25.52	820.49	820.57
O	59+01.90	-25.52	820.50	820.60
P	59+11.90	-25.52	820.50	820.62
Q	59+21.90	-25.52	820.50	820.62
R	59+31.90	-25.52	820.49	820.60
S	59+41.90	-25.52	820.48	820.56
T	59+51.90	-25.52	820.46	820.50
℄ Brg. N. Abut.	59+61.40	-25.52	820.44	820.44
Bk. of N. Abut.	59+62.19	-25.52	820.44	820.44

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	-18.13	819.80	819.80
℄ Brg. S. Abut.	57+43.40	-18.13	819.80	819.80
A	57+53.40	-18.13	819.90	819.94
B	57+63.40	-18.13	819.98	820.06
C	57+73.40	-18.13	820.06	820.16
D	57+83.40	-18.13	820.14	820.25
E	57+93.40	-18.13	820.21	820.32
F	58+03.40	-18.13	820.27	820.37
G	58+13.40	-18.13	820.33	820.40
H	58+23.40	-18.13	820.39	820.43
I	58+33.40	-18.13	820.43	820.45
J	58+43.40	-18.13	820.48	820.48
℄ Brg. Pier	58+51.90	-18.13	820.51	820.51
K	58+61.90	-18.13	820.54	820.55
L	58+71.90	-18.13	820.57	820.59
M	58+81.90	-18.13	820.59	820.64
N	58+91.90	-18.13	820.60	820.68
O	59+01.90	-18.13	820.61	820.72
P	59+11.90	-18.13	820.62	820.73
Q	59+21.90	-18.13	820.61	820.73
R	59+31.90	-18.13	820.61	820.71
S	59+41.90	-18.13	820.59	820.67
T	59+51.90	-18.13	820.58	820.62
℄ Brg. N. Abut.	59+61.40	-18.13	820.55	820.55
Bk. of N. Abut.	59+62.19	-18.13	820.55	820.55

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	-10.73	819.91	819.91
℄ Brg. S. Abut.	57+43.40	-10.73	819.92	819.92
A	57+53.40	-10.73	820.01	820.05
B	57+63.40	-10.73	820.10	820.17
C	57+73.40	-10.73	820.18	820.28
D	57+83.40	-10.73	820.26	820.36
E	57+93.40	-10.73	820.33	820.43
F	58+03.40	-10.73	820.39	820.48
G	58+13.40	-10.73	820.45	820.52
H	58+23.40	-10.73	820.50	820.54
I	58+33.40	-10.73	820.55	820.57
J	58+43.40	-10.73	820.59	820.60
℄ Brg. Pier	58+51.90	-10.73	820.62	820.62
K	58+61.90	-10.73	820.66	820.66
L	58+71.90	-10.73	820.68	820.71
M	58+81.90	-10.73	820.70	820.75
N	58+91.90	-10.73	820.72	820.80
O	59+01.90	-10.73	820.73	820.83
P	59+11.90	-10.73	820.73	820.85
Q	59+21.90	-10.73	820.73	820.85
R	59+31.90	-10.73	820.72	820.83
S	59+41.90	-10.73	820.71	820.79
T	59+51.90	-10.73	820.69	820.73
℄ Brg. N. Abut.	59+61.40	-10.73	820.67	820.67
Bk. of N. Abut.	59+62.19	-10.73	820.67	820.67

LEFT PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	-9.00	819.94	819.94
℄ Brg. S. Abut.	57+43.40	-9.00	819.95	819.95
A	57+53.40	-9.00	820.04	820.08
B	57+63.40	-9.00	820.13	820.20
C	57+73.40	-9.00	820.21	820.30
D	57+83.40	-9.00	820.28	820.39
E	57+93.40	-9.00	820.35	820.46
F	58+03.40	-9.00	820.42	820.51
G	58+13.40	-9.00	820.48	820.54
H	58+23.40	-9.00	820.53	820.57
I	58+33.40	-9.00	820.58	820.60
J	58+43.40	-9.00	820.62	820.62
℄ Brg. Pier	58+51.90	-9.00	820.65	820.65
K	58+61.90	-9.00	820.68	820.69
L	58+71.90	-9.00	820.71	820.73
M	58+81.90	-9.00	820.73	820.78
N	58+91.90	-9.00	820.75	820.82
O	59+01.90	-9.00	820.75	820.86
P	59+11.90	-9.00	820.76	820.87
Q	59+21.90	-9.00	820.76	820.87
R	59+31.90	-9.00	820.75	820.85
S	59+41.90	-9.00	820.74	820.81
T	59+51.90	-9.00	820.72	820.76
℄ Brg. N. Abut.	59+61.40	-9.00	820.70	820.70
Bk. of N. Abut.	59+62.19	-9.00	820.69	820.69

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	-7.25	819.97	819.97
℄ Brg. S. Abut.	57+43.40	-7.25	819.97	819.97
A	57+53.40	-7.25	820.07	820.11
B	57+63.40	-7.25	820.15	820.23
C	57+73.40	-7.25	820.23	820.33
D	57+83.40	-7.25	820.31	820.42
E	57+93.40	-7.25	820.38	820.48
F	58+03.40	-7.25	820.44	820.53
G	58+13.40	-7.25	820.50	820.57
H	58+23.40	-7.25	820.56	820.60
I	58+33.40	-7.25	820.60	820.62
J	58+43.40	-7.25	820.65	820.65
℄ Brg. Pier	58+51.90	-7.25	820.68	820.68
K	58+61.90	-7.25	820.71	820.72
L	58+71.90	-7.25	820.74	820.76
M	58+81.90	-7.25	820.76	820.81
N	58+91.90	-7.25	820.77	820.85
O	59+01.90	-7.25	820.78	820.88
P	59+11.90	-7.25	820.79	820.90
Q	59+21.90	-7.25	820.78	820.90
R	59+31.90	-7.25	820.78	820.88
S	59+41.90	-7.25	820.76	820.84
T	59+51.90	-7.25	820.75	820.79
℄ Brg. N. Abut.	59+61.40	-7.25	820.72	820.72
Bk. of N. Abut.	59+62.19	-7.25	820.72	820.72

FILE NAME = 0720146-68683-006-Elev-Slab.dgn
MAURER-STUTZ ENGINEERS SURVEYORS

USER NAME = baswanson	DESIGNED - BAS	REVISED	
	CHECKED - JAE	REVISED	
PLOT SCALE =	DRAWN - BAS	REVISED	
PLOT DATE = 1/24/2014	CHECKED - RAL	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 072-0146
SHEET NO. 6 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB)BY	PEORIA	487	293
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

CROWN

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	-4.00	820.14	820.14
℄ Brg. S. Abut.	57+43.40	-4.00	820.15	820.15
A	57+53.40	-4.00	820.24	820.28
B	57+63.40	-4.00	820.33	820.41
C	57+73.40	-4.00	820.41	820.51
D	57+83.40	-4.00	820.49	820.60
E	57+93.40	-4.00	820.56	820.67
F	58+03.40	-4.00	820.62	820.72
G	58+13.40	-4.00	820.68	820.75
H	58+23.40	-4.00	820.73	820.78
I	58+33.40	-4.00	820.78	820.80
J	58+43.40	-4.00	820.82	820.83
℄ Brg. Pier	58+51.90	-4.00	820.85	820.85
K	58+61.90	-4.00	820.89	820.89
L	58+71.90	-4.00	820.91	820.94
M	58+81.90	-4.00	820.93	820.99
N	58+91.90	-4.00	820.95	821.03
O	59+01.90	-4.00	820.96	821.07
P	59+11.90	-4.00	820.96	821.08
Q	59+21.90	-4.00	820.96	821.08
R	59+31.90	-4.00	820.95	821.06
S	59+41.90	-4.00	820.94	821.02
T	59+51.90	-4.00	820.92	820.97
℄ Brg. N. Abut.	59+61.40	-4.00	820.90	820.90
Bk. of N. Abut.	59+62.19	-4.00	820.90	820.90

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	-3.33	820.13	820.13
℄ Brg. S. Abut.	57+43.40	-3.33	820.14	820.14
A	57+53.40	-3.33	820.23	820.27
B	57+63.40	-3.33	820.32	820.40
C	57+73.40	-3.33	820.40	820.50
D	57+83.40	-3.33	820.47	820.59
E	57+93.40	-3.33	820.55	820.66
F	58+03.40	-3.33	820.61	820.71
G	58+13.40	-3.33	820.67	820.74
H	58+23.40	-3.33	820.72	820.77
I	58+33.40	-3.33	820.77	820.79
J	58+43.40	-3.33	820.81	820.82
℄ Brg. Pier	58+51.90	-3.33	820.84	820.84
K	58+61.90	-3.33	820.88	820.88
L	58+71.90	-3.33	820.90	820.93
M	58+81.90	-3.33	820.92	820.98
N	58+91.90	-3.33	820.94	821.02
O	59+01.90	-3.33	820.95	821.06
P	59+11.90	-3.33	820.95	821.07
Q	59+21.90	-3.33	820.95	821.07
R	59+31.90	-3.33	820.94	821.05
S	59+41.90	-3.33	820.93	821.01
T	59+51.90	-3.33	820.91	820.95
℄ Brg. N. Abut.	59+61.40	-3.33	820.89	820.89
Bk. of N. Abut.	59+62.19	-3.33	820.89	820.89

℄ ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	0.00	820.08	820.08
℄ Brg. S. Abut.	57+43.40	0.00	820.09	820.09
A	57+53.40	0.00	820.18	820.22
B	57+63.40	0.00	820.27	820.35
C	57+73.40	0.00	820.35	820.45
D	57+83.40	0.00	820.42	820.54
E	57+93.40	0.00	820.49	820.61
F	58+03.40	0.00	820.56	820.65
G	58+13.40	0.00	820.62	820.69
H	58+23.40	0.00	820.67	820.71
I	58+33.40	0.00	820.72	820.74
J	58+43.40	0.00	820.76	820.76
℄ Brg. Pier	58+51.90	0.00	820.79	820.79
K	58+61.90	0.00	820.82	820.83
L	58+71.90	0.00	820.85	820.88
M	58+81.90	0.00	820.87	820.92
N	58+91.90	0.00	820.89	820.97
O	59+01.90	0.00	820.90	821.00
P	59+11.90	0.00	820.90	821.02
Q	59+21.90	0.00	820.90	821.02
R	59+31.90	0.00	820.89	821.00
S	59+41.90	0.00	820.88	820.96
T	59+51.90	0.00	820.86	820.90
℄ Brg. N. Abut.	59+61.40	0.00	820.84	820.84
Bk. of N. Abut.	59+62.19	0.00	820.83	820.83

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	4.06	820.02	820.02
℄ Brg. S. Abut.	57+43.40	4.06	820.02	820.02
A	57+53.40	4.06	820.12	820.16
B	57+63.40	4.06	820.20	820.28
C	57+73.40	4.06	820.28	820.39
D	57+83.40	4.06	820.36	820.47
E	57+93.40	4.06	820.43	820.54
F	58+03.40	4.06	820.49	820.59
G	58+13.40	4.06	820.55	820.62
H	58+23.40	4.06	820.61	820.65
I	58+33.40	4.06	820.65	820.67
J	58+43.40	4.06	820.70	820.70
℄ Brg. Pier	58+51.90	4.06	820.73	820.73
K	58+61.90	4.06	820.76	820.77
L	58+71.90	4.06	820.79	820.81
M	58+81.90	4.06	820.81	820.86
N	58+91.90	4.06	820.82	820.90
O	59+01.90	4.06	820.83	820.94
P	59+11.90	4.06	820.84	820.96
Q	59+21.90	4.06	820.83	820.95
R	59+31.90	4.06	820.83	820.93
S	59+41.90	4.06	820.81	820.89
T	59+51.90	4.06	820.80	820.84
℄ Brg. N. Abut.	59+61.40	4.06	820.77	820.77
Bk. of N. Abut.	59+62.19	4.06	820.77	820.77

RIGHT PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	9.00	819.94	819.94
℄ Brg. S. Abut.	57+43.40	9.00	819.95	819.95
A	57+53.40	9.00	820.04	820.08
B	57+63.40	9.00	820.13	820.20
C	57+73.40	9.00	820.21	820.31
D	57+83.40	9.00	820.28	820.40
E	57+93.40	9.00	820.35	820.46
F	58+03.40	9.00	820.42	820.51
G	58+13.40	9.00	820.48	820.55
H	58+23.40	9.00	820.53	820.57
I	58+33.40	9.00	820.58	820.60
J	58+43.40	9.00	820.62	820.62
℄ Brg. Pier	58+51.90	9.00	820.65	820.65
K	58+61.90	9.00	820.68	820.69
L	58+71.90	9.00	820.71	820.73
M	58+81.90	9.00	820.73	820.78
N	58+91.90	9.00	820.75	820.83
O	59+01.90	9.00	820.75	820.86
P	59+11.90	9.00	820.76	820.88
Q	59+21.90	9.00	820.76	820.88
R	59+31.90	9.00	820.75	820.86
S	59+41.90	9.00	820.74	820.82
T	59+51.90	9.00	820.72	820.76
℄ Brg. N. Abut.	59+61.40	9.00	820.70	820.70
Bk. of N. Abut.	59+62.19	9.00	820.69	820.69

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	11.46	819.90	819.90
℄ Brg. S. Abut.	57+43.40	11.46	819.91	819.91
A	57+53.40	11.46	820.00	820.04
B	57+63.40	11.46	820.09	820.16
C	57+73.40	11.46	820.17	820.27
D	57+83.40	11.46	820.24	820.36
E	57+93.40	11.46	820.31	820.42
F	58+03.40	11.46	820.38	820.47
G	58+13.40	11.46	820.44	820.51
H	58+23.40	11.46	820.49	820.53
I	58+33.40	11.46	820.54	820.56
J	58+43.40	11.46	820.58	820.59
℄ Brg. Pier	58+51.90	11.46	820.61	820.61
K	58+61.90	11.46	820.64	820.65
L	58+71.90	11.46	820.67	820.70
M	58+81.90	11.46	820.69	820.74
N	58+91.90	11.46	820.71	820.79
O	59+01.90	11.46	820.72	820.82
P	59+11.90	11.46	820.72	820.84
Q	59+21.90	11.46	820.72	820.84
R	59+31.90	11.46	820.71	820.82
S	59+41.90	11.46	820.70	820.78
T	59+51.90	11.46	820.68	820.72
℄ Brg. N. Abut.	59+61.40	11.46	820.66	820.66
Bk. of N. Abut.	59+62.19	11.46	820.66	820.66

FILE NAME = 0720146-68683-007-Elev-Slab.dgn

MAURER-STUTZ ENGINEERS SURVEYORS

USER NAME = baswanson	DESIGNED - BAS	REVISED	
	CHECKED - JAE	REVISED	
PLOT SCALE =	DRAWN - BAS	REVISED	
PLOT DATE = 1/24/2014	CHECKED - RAL	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 072-0146

SHEET NO. 7 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB)BY	PEORIA	487	294
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

GIRDER 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	18.85	819.78	819.78
℄ Brg. S. Abut.	57+43.40	18.85	819.79	819.79
A	57+53.40	18.85	819.88	819.93
B	57+63.40	18.85	819.97	820.05
C	57+73.40	18.85	820.05	820.15
D	57+83.40	18.85	820.13	820.24
E	57+93.40	18.85	820.20	820.31
F	58+03.40	18.85	820.26	820.36
G	58+13.40	18.85	820.32	820.39
H	58+23.40	18.85	820.38	820.42
I	58+33.40	18.85	820.42	820.44
J	58+43.40	18.85	820.47	820.47
℄ Brg. Pier	58+51.90	18.85	820.50	820.50
K	58+61.90	18.85	820.53	820.54
L	58+71.90	18.85	820.56	820.58
M	58+81.90	18.85	820.58	820.63
N	58+91.90	18.85	820.59	820.67
O	59+01.90	18.85	820.60	820.71
P	59+11.90	18.85	820.60	820.72
Q	59+21.90	18.85	820.60	820.72
R	59+31.90	18.85	820.60	820.70
S	59+41.90	18.85	820.58	820.66
T	59+51.90	18.85	820.56	820.61
℄ Brg. N. Abut.	59+61.40	18.85	820.54	820.54
Bk. of N. Abut.	59+62.19	18.85	820.54	820.54

GIRDER 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	26.25	819.67	819.67
℄ Brg. S. Abut.	57+43.40	26.25	819.68	819.68
A	57+53.40	26.25	819.77	819.81
B	57+63.40	26.25	819.86	819.93
C	57+73.40	26.25	819.94	820.03
D	57+83.40	26.25	820.01	820.12
E	57+93.40	26.25	820.08	820.19
F	58+03.40	26.25	820.15	820.24
G	58+13.40	26.25	820.21	820.27
H	58+23.40	26.25	820.26	820.30
I	58+33.40	26.25	820.31	820.33
J	58+43.40	26.25	820.35	820.35
℄ Brg. Pier	58+51.90	26.25	820.38	820.38
K	58+61.90	26.25	820.41	820.42
L	58+71.90	26.25	820.44	820.46
M	58+81.90	26.25	820.46	820.51
N	58+91.90	26.25	820.48	820.55
O	59+01.90	26.25	820.49	820.59
P	59+11.90	26.25	820.49	820.60
Q	59+21.90	26.25	820.49	820.60
R	59+31.90	26.25	820.48	820.58
S	59+41.90	26.25	820.47	820.54
T	59+51.90	26.25	820.45	820.49
℄ Brg. N. Abut.	59+61.40	26.25	820.43	820.43
Bk. of N. Abut.	59+62.19	26.25	820.42	820.42

GIRDER 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	33.00	819.56	819.56
℄ Brg. S. Abut.	57+43.40	33.00	819.57	819.57
A	57+53.40	33.00	819.66	819.70
B	57+63.40	33.00	819.75	819.82
C	57+73.40	33.00	819.83	819.93
D	57+83.40	33.00	819.91	820.01
E	57+93.40	33.00	819.98	820.08
F	58+03.40	33.00	820.04	820.13
G	58+13.40	33.00	820.10	820.17
H	58+23.40	33.00	820.15	820.19
I	58+33.40	33.00	820.20	820.22
J	58+43.40	33.00	820.24	820.25
℄ Brg. Pier	58+51.90	33.00	820.28	820.28
K	58+61.90	33.00	820.31	820.32
L	58+71.90	33.00	820.33	820.36
M	58+81.90	33.00	820.36	820.40
N	58+91.90	33.00	820.37	820.45
O	59+01.90	33.00	820.38	820.48
P	59+11.90	33.00	820.38	820.50
Q	59+21.90	33.00	820.38	820.49
R	59+31.90	33.00	820.37	820.47
S	59+41.90	33.00	820.36	820.44
T	59+51.90	33.00	820.34	820.38
℄ Brg. N. Abut.	59+61.40	33.00	820.32	820.32
Bk. of N. Abut.	59+62.19	33.00	820.32	820.32

GIRDER 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	40.17	819.45	819.45
℄ Brg. S. Abut.	57+43.40	40.17	819.46	819.46
A	57+53.40	40.17	819.55	819.59
B	57+63.40	40.17	819.64	819.71
C	57+73.40	40.17	819.72	819.82
D	57+83.40	40.17	819.80	819.90
E	57+93.40	40.17	819.87	819.97
F	58+03.40	40.17	819.93	820.02
G	58+13.40	40.17	819.99	820.06
H	58+23.40	40.17	820.04	820.08
I	58+33.40	40.17	820.09	820.11
J	58+43.40	40.17	820.13	820.14
℄ Brg. Pier	58+51.90	40.17	820.16	820.16
K	58+61.90	40.17	820.20	820.20
L	58+71.90	40.17	820.22	820.25
M	58+81.90	40.17	820.24	820.29
N	58+91.90	40.17	820.26	820.34
O	59+01.90	40.17	820.27	820.37
P	59+11.90	40.17	820.27	820.39
Q	59+21.90	40.17	820.27	820.39
R	59+31.90	40.17	820.26	820.37
S	59+41.90	40.17	820.25	820.33
T	59+51.90	40.17	820.23	820.27
℄ Brg. N. Abut.	59+61.40	40.17	820.21	820.21
Bk. of N. Abut.	59+62.19	40.17	820.21	820.21

GIRDER 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	57+42.61	47.33	819.34	819.34
℄ Brg. S. Abut.	57+43.40	47.33	819.35	819.35
A	57+53.40	47.33	819.44	819.48
B	57+63.40	47.33	819.53	819.60
C	57+73.40	47.33	819.61	819.71
D	57+83.40	47.33	819.68	819.80
E	57+93.40	47.33	819.75	819.86
F	58+03.40	47.33	819.82	819.91
G	58+13.40	47.33	819.88	819.95
H	58+23.40	47.33	819.93	819.97
I	58+33.40	47.33	819.98	820.00
J	58+43.40	47.33	820.02	820.02
℄ Brg. Pier	58+51.90	47.33	820.05	820.05
K	58+61.90	47.33	820.08	820.09
L	58+71.90	47.33	820.11	820.14
M	58+81.90	47.33	820.13	820.19
N	58+91.90	47.33	820.15	820.23
O	59+01.90	47.33	820.16	820.26
P	59+11.90	47.33	820.16	820.28
Q	59+21.90	47.33	820.16	820.28
R	59+31.90	47.33	820.15	820.26
S	59+41.90	47.33	820.14	820.22
T	59+51.90	47.33	820.12	820.16
℄ Brg. N. Abut.	59+61.40	47.33	820.10	820.10
Bk. of N. Abut.	59+62.19	47.33	820.10	820.10

FILE NAME = 0720146-68683-008-Elev-Slab.dgn
MAURER-STUTZ ENGINEERS SURVEYORS
USER NAME = baswanson | PLOT SCALE = | PLOT DATE = 1/24/2014
DESIGNED - BAS | CHECKED - JAE | DRAWN - BAS | CHECKED - RAL
REVISED | REVISED | REVISED | REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 072-0146
SHEET NO. 8 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB)BY	PEORIA	487	295
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

FACE OF WEST PARAPET

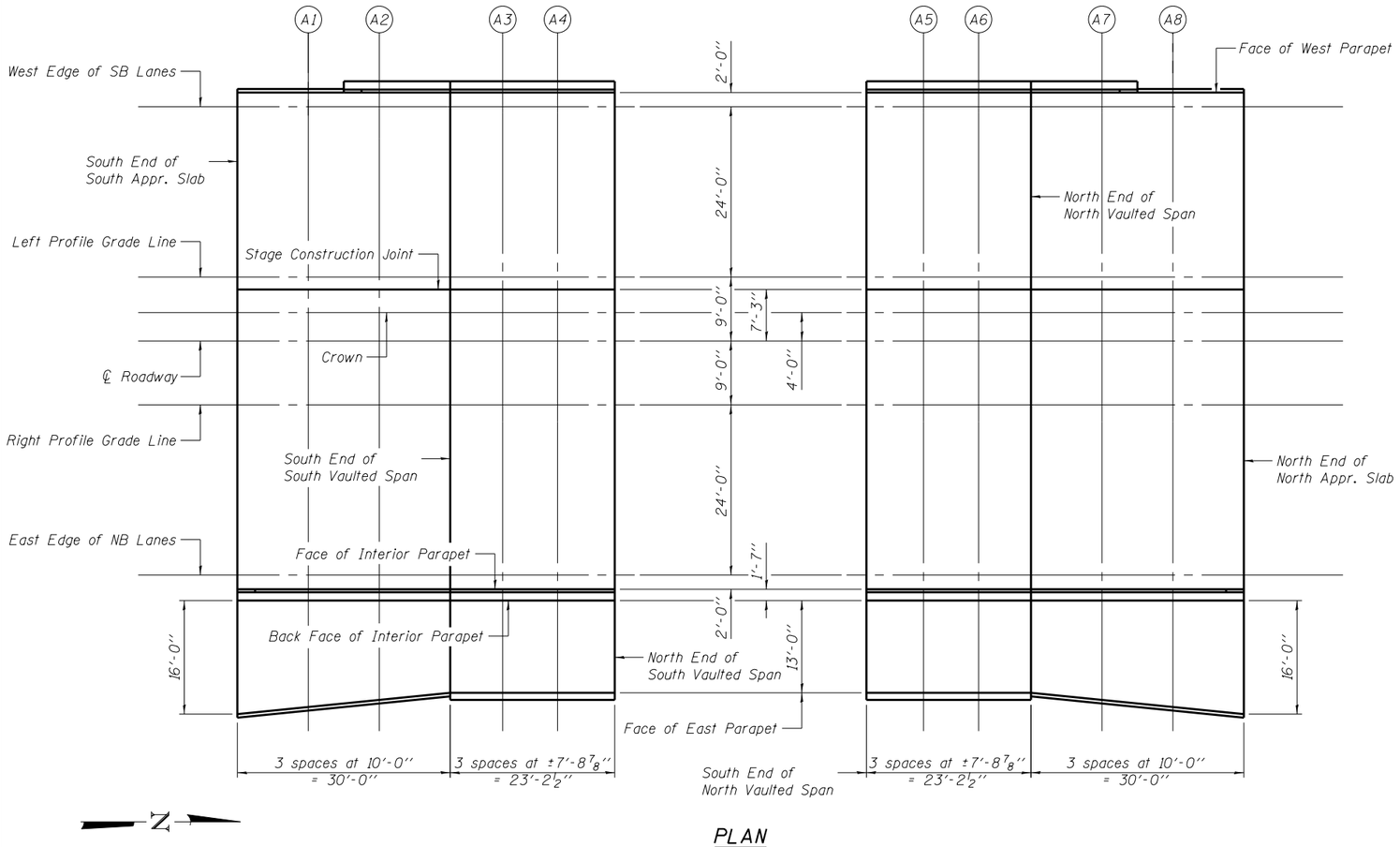
Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	56+89.40	-35.00	818.85
A1	56+99.40	-35.00	818.98
A2	57+09.40	-35.00	819.09
S. End S. Vaulted Span	57+19.40	-35.00	819.29
A3	57+27.14	-35.00	819.38
A4	57+34.87	-35.00	819.46
N. End S. Vaulted Span	57+42.61	-35.00	819.53
S. End N. Vaulted Span	59+62.19	-35.00	820.29
A5	59+69.93	-35.00	820.27
A6	59+77.66	-35.00	820.24
N. End N. Vaulted Span	59+85.40	-35.00	820.21
A7	59+95.40	-35.00	820.08
A8	60+05.40	-35.00	820.03
N. End N. Appr. Slab	60+15.40	-35.00	819.98

WEST EDGE OF SB LANES

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	56+89.40	-33.00	818.97
A1	56+99.40	-33.00	819.10
A2	57+09.40	-33.00	819.21
S. End S. Vaulted Span	57+19.40	-33.00	819.33
A3	57+27.14	-33.00	819.41
A4	57+34.87	-33.00	819.49
N. End S. Vaulted Span	57+42.61	-33.00	819.56
S. End N. Vaulted Span	59+62.19	-33.00	820.32
A5	59+69.93	-33.00	820.30
A6	59+77.66	-33.00	820.27
N. End N. Vaulted Span	59+85.40	-33.00	820.24
A7	59+95.40	-33.00	820.20
A8	60+05.40	-33.00	820.15
N. End N. Appr. Slab	60+15.40	-33.00	820.10

LEFT PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	56+89.40	-9.00	819.35
A1	56+99.40	-9.00	819.47
A2	57+09.40	-9.00	819.59
S. End S. Vaulted Span	57+19.40	-9.00	819.70
A3	57+27.14	-9.00	819.78
A4	57+34.87	-9.00	819.86
N. End S. Vaulted Span	57+42.61	-9.00	819.94
S. End N. Vaulted Span	59+62.19	-9.00	820.69
A5	59+69.93	-9.00	820.67
A6	59+77.66	-9.00	820.65
N. End N. Vaulted Span	59+85.40	-9.00	820.62
A7	59+95.40	-9.00	820.57
A8	60+05.40	-9.00	820.53
N. End N. Appr. Slab	60+15.40	-9.00	820.47



PLAN

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	56+89.40	-7.25	819.38
A1	56+99.40	-7.25	819.50
A2	57+09.40	-7.25	819.62
S. End S. Vaulted Span	57+19.40	-7.25	819.73
A3	57+27.14	-7.25	819.81
A4	57+34.87	-7.25	819.89
N. End S. Vaulted Span	57+42.61	-7.25	819.97
S. End N. Vaulted Span	59+62.19	-7.25	820.72
A5	59+69.93	-7.25	820.70
A6	59+77.66	-7.25	820.67
N. End N. Vaulted Span	59+85.40	-7.25	820.64
A7	59+95.40	-7.25	820.60
A8	60+05.40	-7.25	820.55
N. End N. Appr. Slab	60+15.40	-7.25	820.50

CROWN

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	56+89.40	-4.00	819.55
A1	56+99.40	-4.00	819.68
A2	57+09.40	-4.00	819.79
S. End S. Vaulted Span	57+19.40	-4.00	819.90
A3	57+27.14	-4.00	819.99
A4	57+34.87	-4.00	820.07
N. End S. Vaulted Span	57+42.61	-4.00	820.14
S. End N. Vaulted Span	59+62.19	-4.00	820.90
A5	59+69.93	-4.00	820.87
A6	59+77.66	-4.00	820.85
N. End N. Vaulted Span	59+85.40	-4.00	820.82
A7	59+95.40	-4.00	820.78
A8	60+05.40	-4.00	820.73
N. End N. Appr. Slab	60+15.40	-4.00	820.67

FILE NAME = 0720146-68683-009-Elev-Appr.dgn	USER NAME = baswanson	DESIGNED - BAS	REVISED
MAURER-STUTZ ENGINEERS SURVEYORS		CHECKED - JAE	REVISED
	PLOT SCALE =	DRAWN - BAS	REVISED
	PLOT DATE = 1/24/2014	CHECKED - RAL	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH ELEVATIONS
STRUCTURE NO. 072-0146
SHEET NO. 9 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB)BY	PEORIA	487	296
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			

CENTERLINE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	56+89.40	0.00	819.49
A1	56+99.40	0.00	819.61
A2	57+09.40	0.00	819.73
S. End S. Vaulted Span	57+19.40	0.00	819.84
A3	57+27.14	0.00	819.92
A4	57+34.87	0.00	820.00
N. End S. Vaulted Span	57+42.61	0.00	820.08
S. End N. Vaulted Span	59+62.19	0.00	820.83
A5	59+69.93	0.00	820.81
A6	59+77.66	0.00	820.79
N. End N. Vaulted Span	59+85.40	0.00	820.76
A7	59+95.40	0.00	820.71
A8	60+05.40	0.00	820.67
N. End N. Appr. Slab	60+15.40	0.00	820.61

RIGHT PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	56+89.40	9.00	819.35
A1	56+99.40	9.00	819.47
A2	57+09.40	9.00	819.59
S. End S. Vaulted Span	57+19.40	9.00	819.70
A3	57+27.14	9.00	819.78
A4	57+34.87	9.00	819.86
N. End S. Vaulted Span	57+42.61	9.00	819.94
S. End N. Vaulted Span	59+62.19	9.00	820.69
A5	59+69.93	9.00	820.67
A6	59+77.66	9.00	820.65
N. End N. Vaulted Span	59+85.40	9.00	820.62
A7	59+95.40	9.00	820.57
A8	60+05.40	9.00	820.53
N. End N. Appr. Slab	60+15.40	9.00	820.47

EAST EDGE OF NB LANES

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	56+89.40	33.00	818.97
A1	56+99.40	33.00	819.10
A2	57+09.40	33.00	819.21
S. End S. Vaulted Span	57+19.40	33.00	819.33
A3	57+27.14	33.00	819.41
A4	57+34.87	33.00	819.49
N. End S. Vaulted Span	57+42.61	33.00	819.56
S. End N. Vaulted Span	59+62.19	33.00	820.32
A5	59+69.93	33.00	820.30
A6	59+77.66	33.00	820.27
N. End N. Vaulted Span	59+85.40	33.00	820.24
A7	59+95.40	33.00	820.20
A8	60+05.40	33.00	820.15
N. End N. Appr. Slab	60+15.40	33.00	820.10

FACE OF INTERIOR PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	56+89.40	35.00	818.85
A1	56+99.40	35.00	818.98
A2	57+09.40	35.00	819.09
S. End S. Vaulted Span	57+19.40	35.00	819.29
A3	57+27.14	35.00	819.38
A4	57+34.87	35.00	819.46
N. End S. Vaulted Span	57+42.61	35.00	819.53
S. End N. Vaulted Span	59+62.19	35.00	820.29
A5	59+69.93	35.00	820.27
A6	59+77.66	35.00	820.24
N. End N. Vaulted Span	59+85.40	35.00	820.21
A7	59+95.40	35.00	820.08
A8	60+05.40	35.00	820.03
N. End N. Appr. Slab	60+15.40	35.00	819.98

BACK FACE OF INTERIOR PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	56+89.40	36.58	818.92
A1	56+99.40	36.58	819.04
A2	57+09.40	36.58	819.16
S. End S. Vaulted Span	57+19.40	36.58	819.27
A3	57+27.14	36.58	819.35
A4	57+34.87	36.58	819.43
N. End S. Vaulted Span	57+42.61	36.58	819.51
S. End N. Vaulted Span	59+62.19	36.58	820.26
A5	59+69.93	36.58	820.24
A6	59+77.66	36.58	820.21
N. End N. Vaulted Span	59+85.40	36.58	820.19
A7	59+95.40	36.58	820.14
A8	60+05.40	36.58	820.09
N. End N. Appr. Slab	60+15.40	36.58	820.04

FACE OF EAST PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Slab	56+89.40	52.58	818.67
A1	56+99.40	51.58	818.81
A2	57+09.40	50.58	818.94
S. End S. Vaulted Span	57+19.40	49.58	819.07
A3	57+27.14	49.58	819.15
A4	57+34.87	49.58	819.23
N. End S. Vaulted Span	57+42.61	49.58	819.30
S. End N. Vaulted Span	59+62.19	49.58	820.06
A5	59+69.93	49.58	820.04
A6	59+77.66	49.58	820.01
N. End N. Vaulted Span	59+85.40	49.58	819.98
A7	59+95.40	50.58	819.92
A8	60+05.40	51.58	819.86
N. End N. Appr. Slab	60+15.40	52.58	819.79

FILE NAME = 0720146-68683-010-Elev-Appr.dgn

MAURER-STUTZ ENGINEERS SURVEYORS

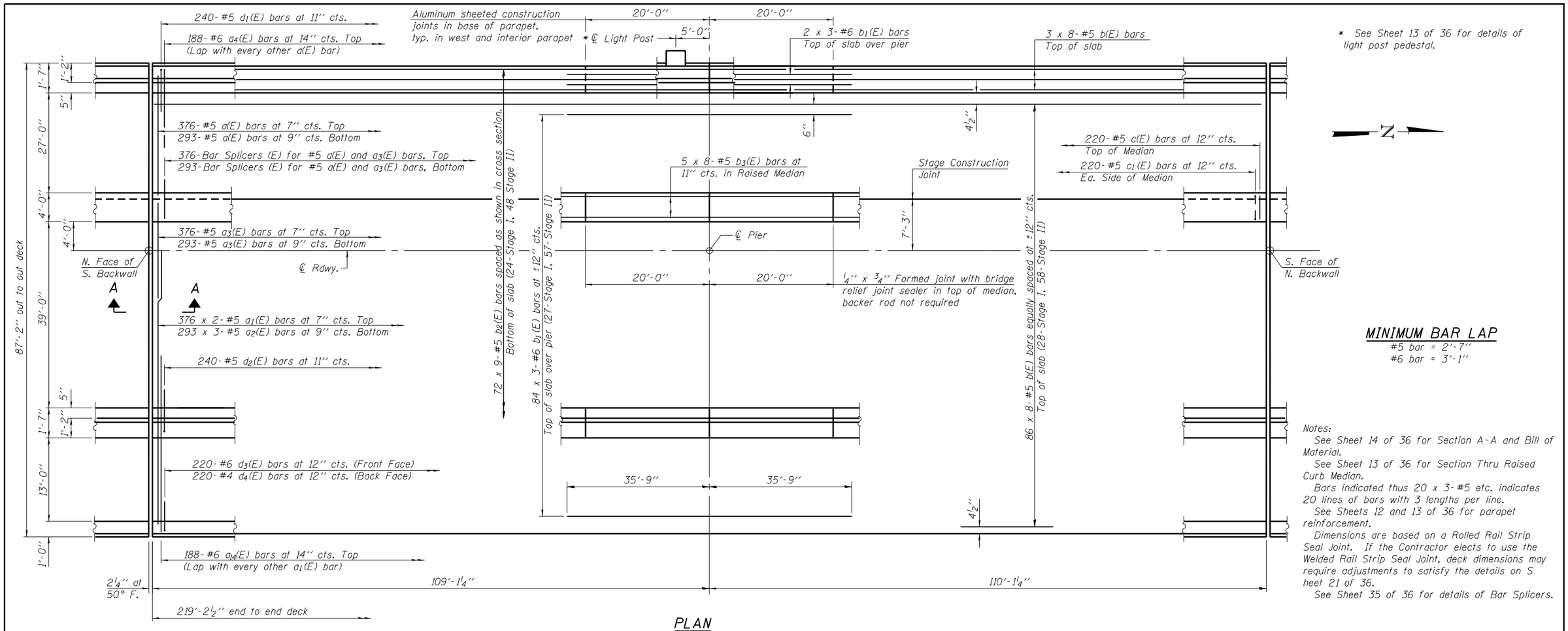
USER NAME = baswanson	DESIGNED - BAS	REVISED	
	CHECKED - JAE	REVISED	
PLOT SCALE =	DRAWN - BAS	REVISED	
PLOT DATE = 1/24/2014	CHECKED - RAL	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

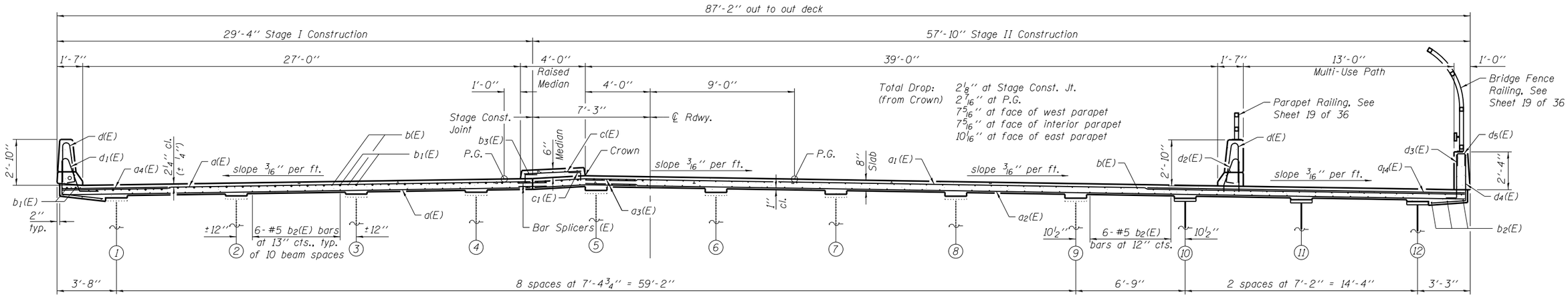
TOP OF APPROACH ELEVATIONS
STRUCTURE NO. 072-0146

SHEET NO. 10 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB)BY	PEORIA	487	297
		CONTRACT NO. 68683		
ILLINOIS	FED. AID PROJECT			



PLAN



NEAR PIER

NEAR MIDSPAN

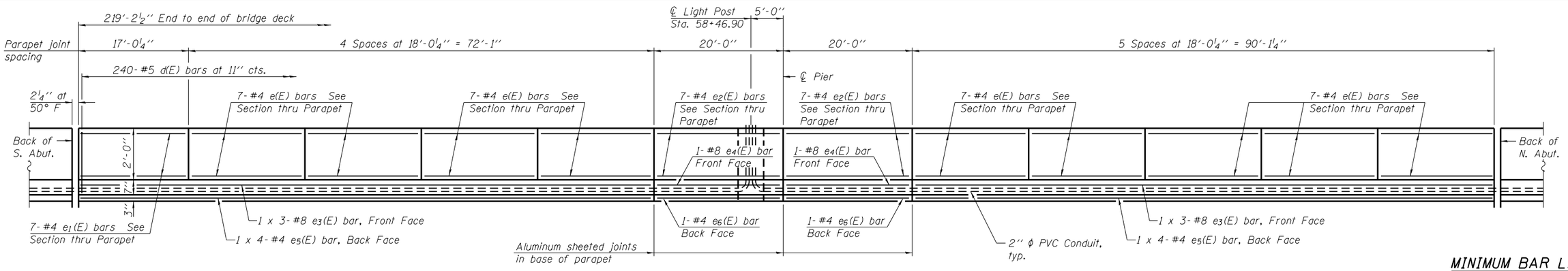
CROSS SECTION
(Looking North)

FILE NAME = 0720146-68683-011-Superstructure.dgn	USER NAME = baswanson	DESIGNED - BAS	REVISED
MAURER-STUTZ ENGINEERS SURVEYORS		CHECKED - JAE	REVISED
	PLOT SCALE =	DRAWN - BAS	REVISED
	PLOT DATE = 1/24/2014	CHECKED - RAL	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

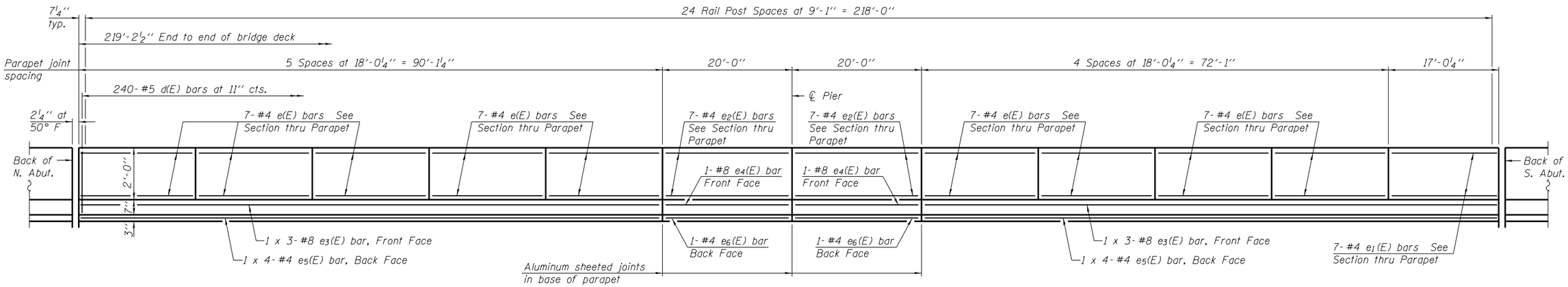
SUPERSTRUCTURE
STRUCTURE NO. 072–0146
SHEET NO. 11 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB)BY	PEORIA	487	298
		CONTRACT NO. 68683		
ILLINOIS FED. AID PROJECT				

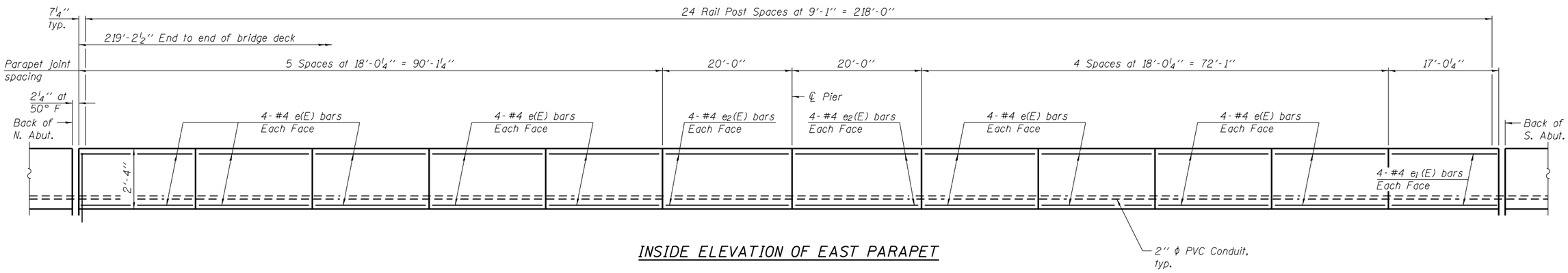


INSIDE ELEVATION OF WEST PARAPET

MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



INSIDE ELEVATION OF INTERIOR PARAPET



INSIDE ELEVATION OF EAST PARAPET

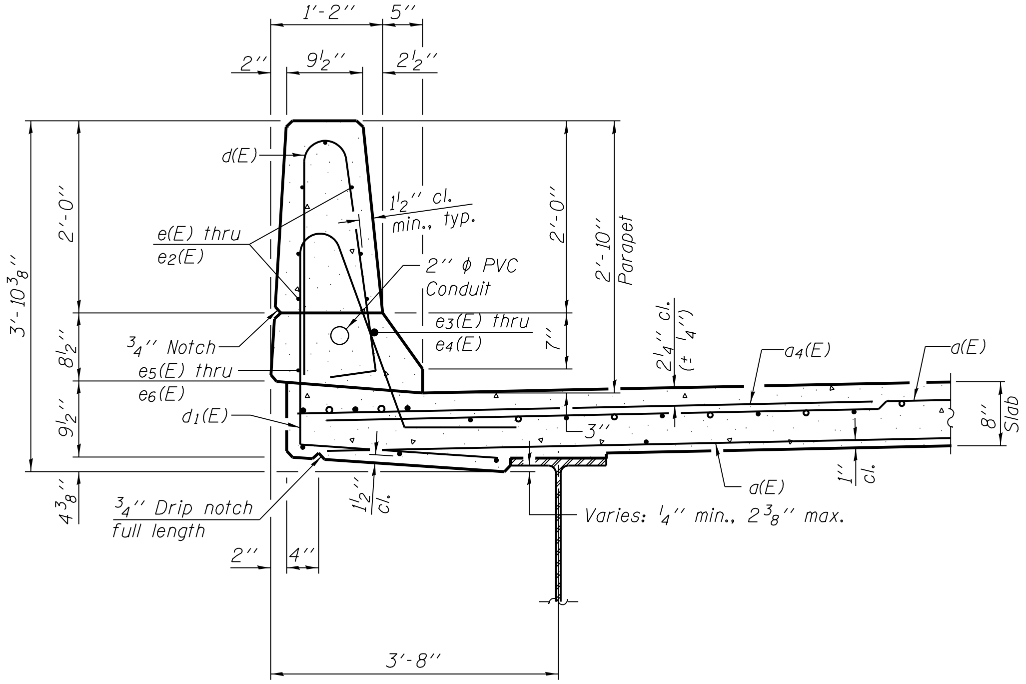
Notes:
Bars indicated thus 1 x 3-#8 etc. indicates 1 line of bars with 3 lengths per line.
See Sheet 13 of 36 for sections thru parapets.
See Sheet 14 of 36 for parapet joint details.

FILE NAME = 0720146-68683-012-Superstructure Details.dgn	USER NAME = baswanson	DESIGNED - BAS	REVISED
MAURER-STUTZ ENGINEERS SURVEYORS		CHECKED - JAE	REVISED
	PLOT SCALE =	DRAWN - BAS	REVISED
	PLOT DATE = 1/24/2014	CHECKED - RAL	REVISED

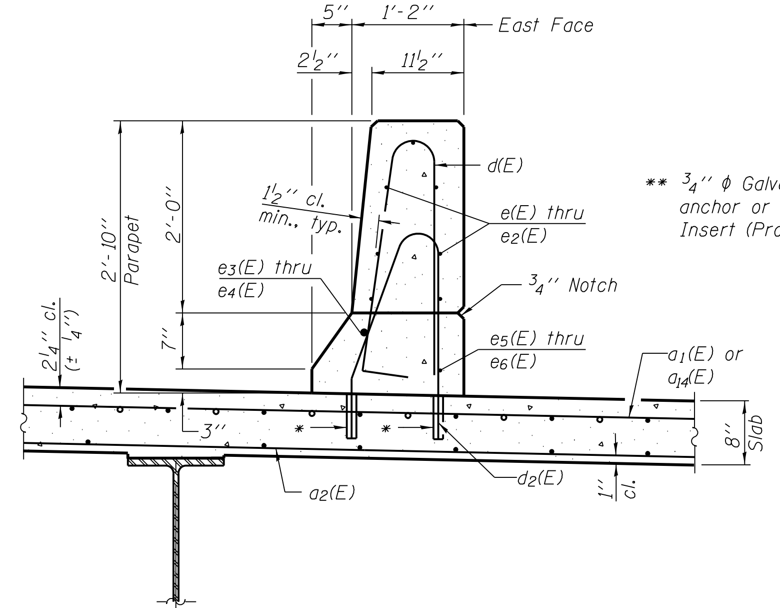
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 072-0146
SHEET NO. 12 OF 36 SHEETS

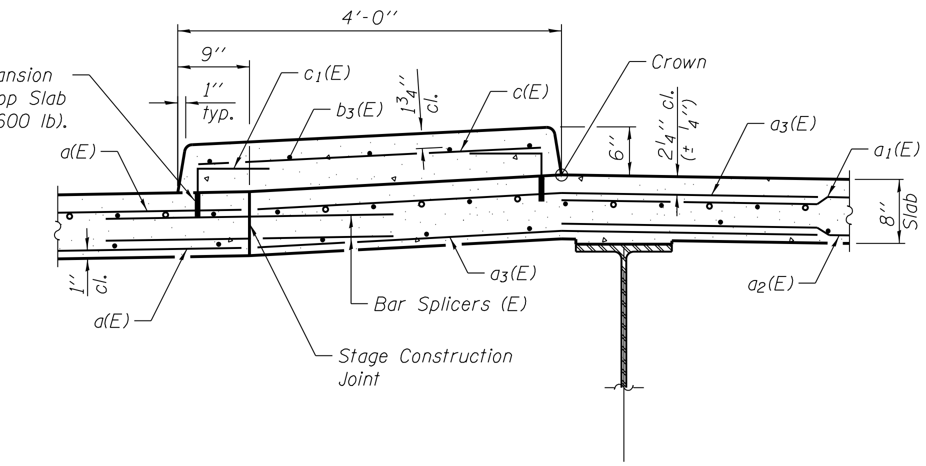
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB)BY	PEORIA	487	299
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			



SECTION THRU WEST PARAPET



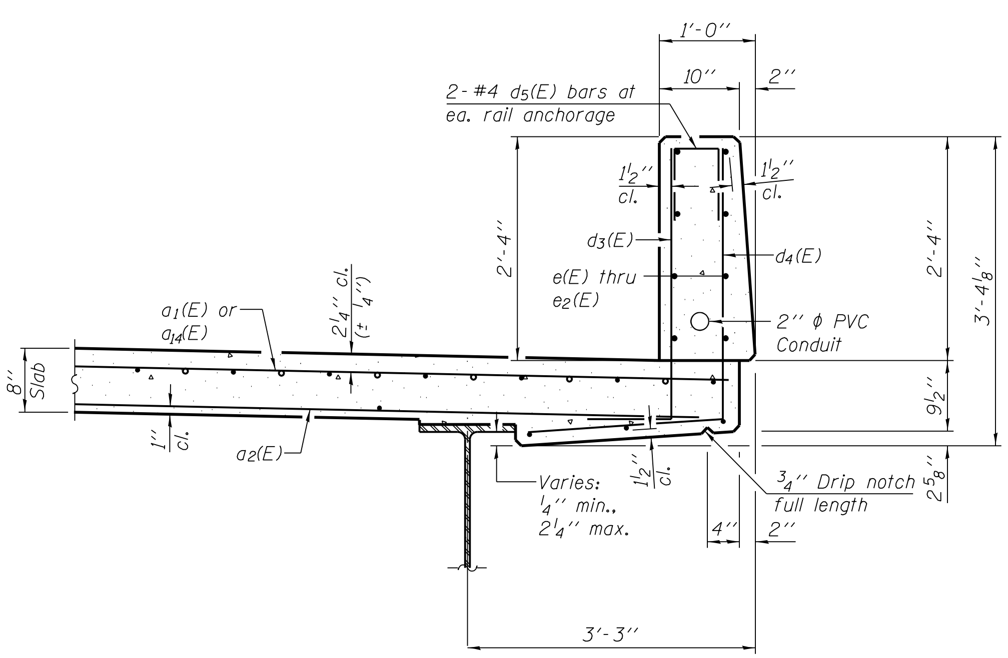
SECTION THRU INTERIOR PARAPET



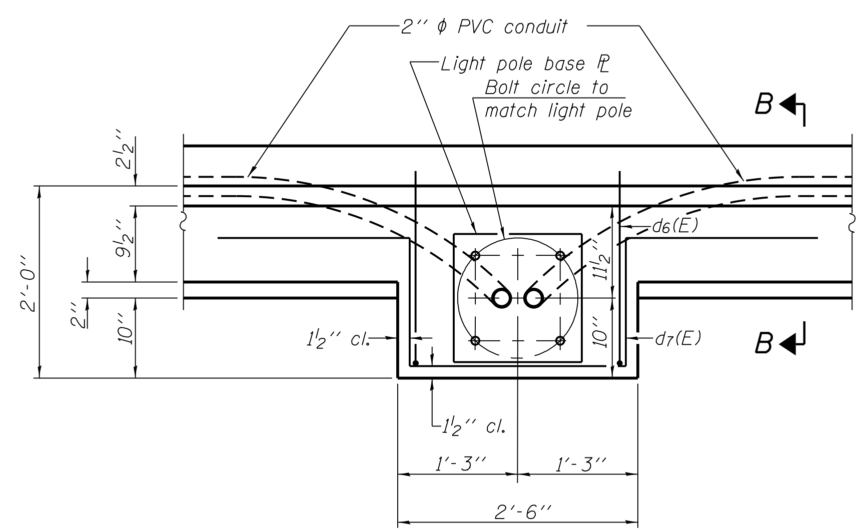
SECTION THRU RAISED CURB MEDIAN

* Drill and set #5 $d_2(E)$ bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6''.

** Cost included with Reinforcement Bars, Epoxy Coated.

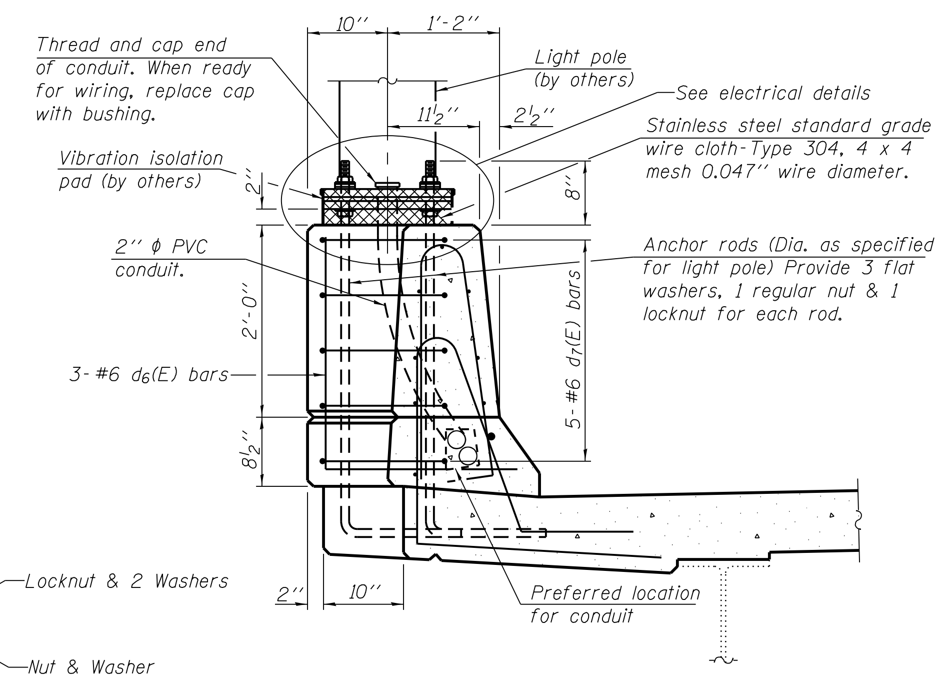


SECTION THRU EAST PARAPET

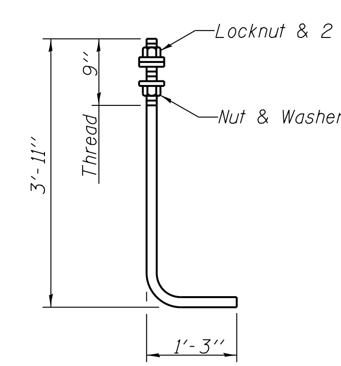


PLAN

Note:
Cost of anchor rods and conduit is included with Concrete Superstructure.



SECTION B-B



ANCHOR ROD

Diameter as specified for light poles. (ASTM F 1554 Grade 105) Full length hot dipped galvanized.

Notes:
Maintain a minimum clearance of 1½'' from conduit to all parapet reinforcement.

(Sheet 2 of 3)

FILE NAME = 0720146-68683-013-Superstructure Details.dgn	USER NAME = baswanson	DESIGNED - BAS	REVISED
MAURER-STUTZ ENGINEERS SURVEYORS		CHECKED - JAE	REVISED
	PLOT SCALE =	DRAWN - BAS	REVISED
	PLOT DATE = 1/24/2014	CHECKED - RAL	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 072–0146

SHEET NO. 13 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-7HB)BY	PEORIA	487	300
		CONTRACT NO. 68683		
	ILLINOIS FED. AID PROJECT			