



HIGHWAY FACTORS ATTACHMENT

Resurfacing plans for the westbound Silver Lake rest stop completed in 2016

Highland, IL

HWY23MH015

(9 pages)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

* 226 + 1 = 227 TOTAL SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3	•	226	1
ILLINOIS			CONTRACT NO. 76F94	

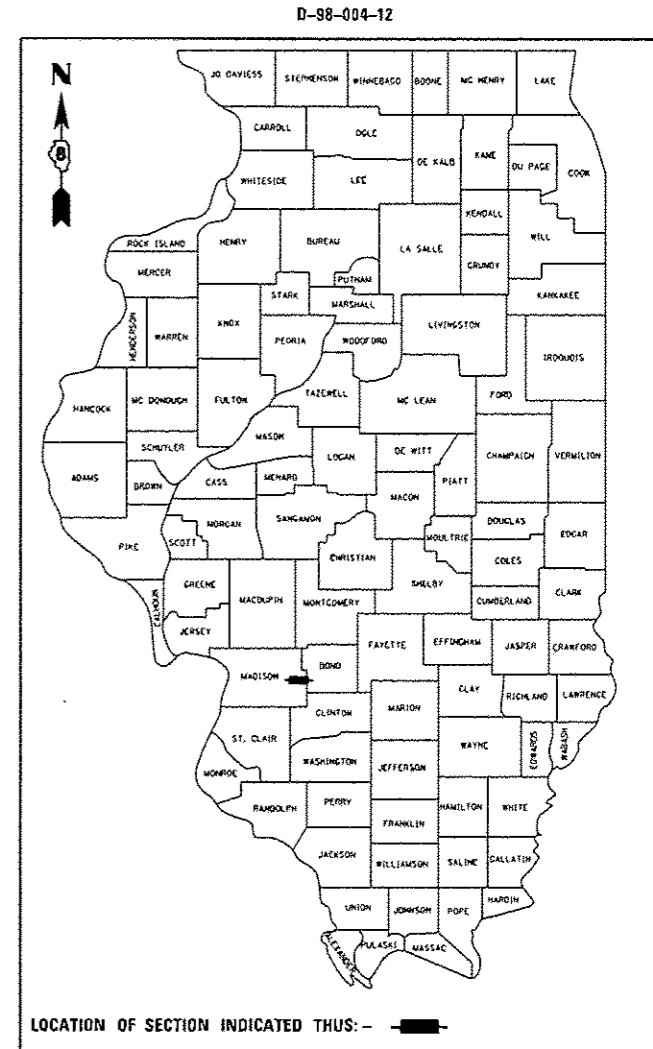
* MADISON/BOND

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROPOSED
HIGHWAY PLANS**

FAI ROUTE I-70 (I-70)
SECTION 60-(13,14,15)RS-3
PROJECT ACNHPP-0070(027)
RESURFACING & BRIDGE REPAIRS
MADISON/BOND COUNTY

C-98-085-12

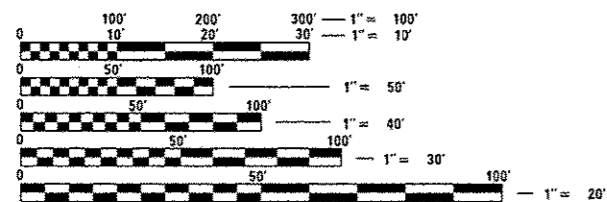


TRAFFIC DATA - W OF PRAIRIE RD.

ADT 2015 = 23,200 (ESTIMATED)
ADT 2035 = 28,200 (ESTIMATED)
SU = 3.1%
MU = 32.2%

TRAFFIC DATA - E OF US 40/IL 143 INTERCHANGE

ADT 2015 = 23,200 (ESTIMATED)
ADT 2035 = 28,200 (ESTIMATED)
SU = 3.0%
MU = 32.2%

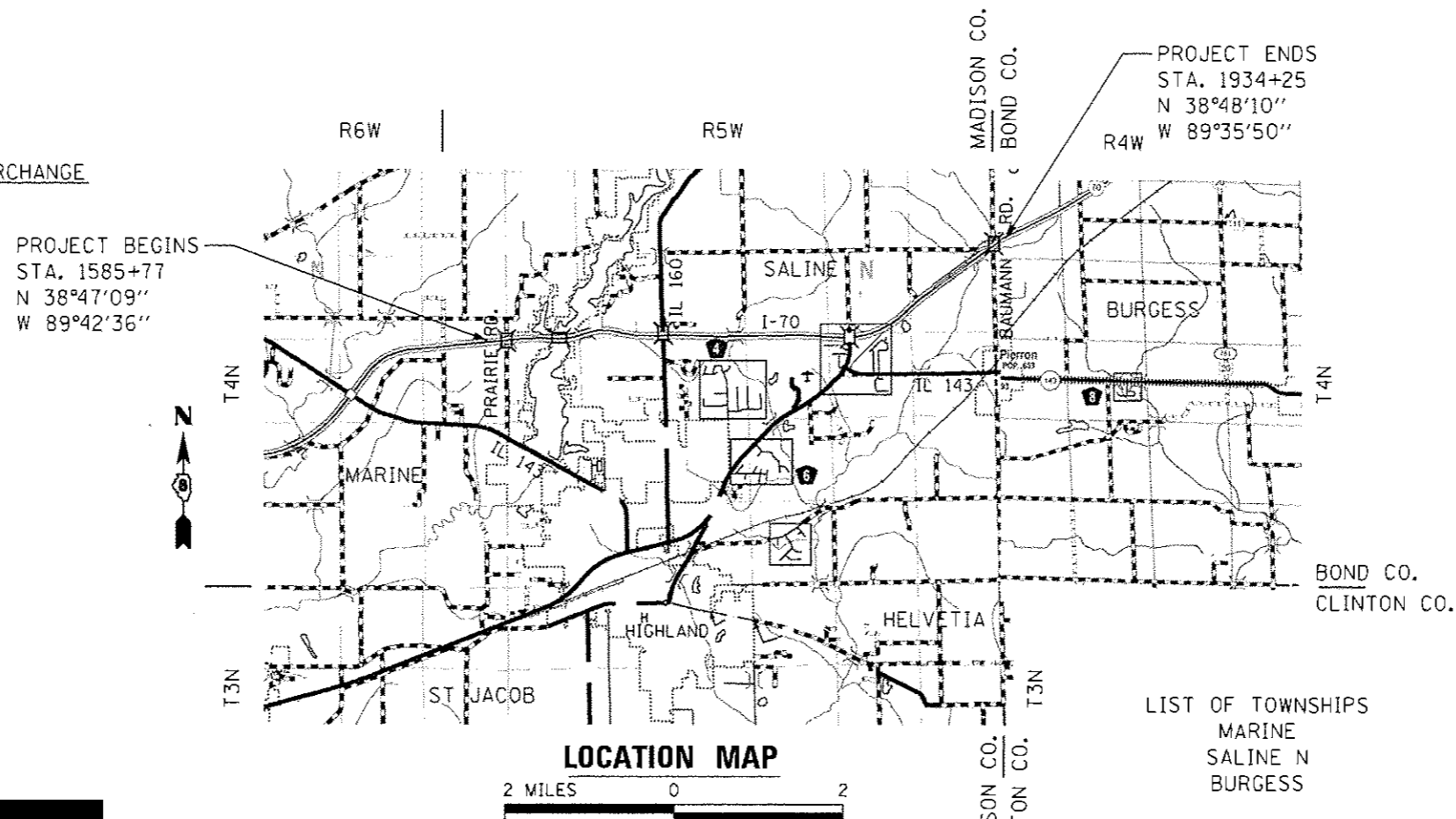


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: MIKE PRITCHETT
DESIGNER: DIANA MURRAY

CONTRACT NO. 76F94



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 6 20 16

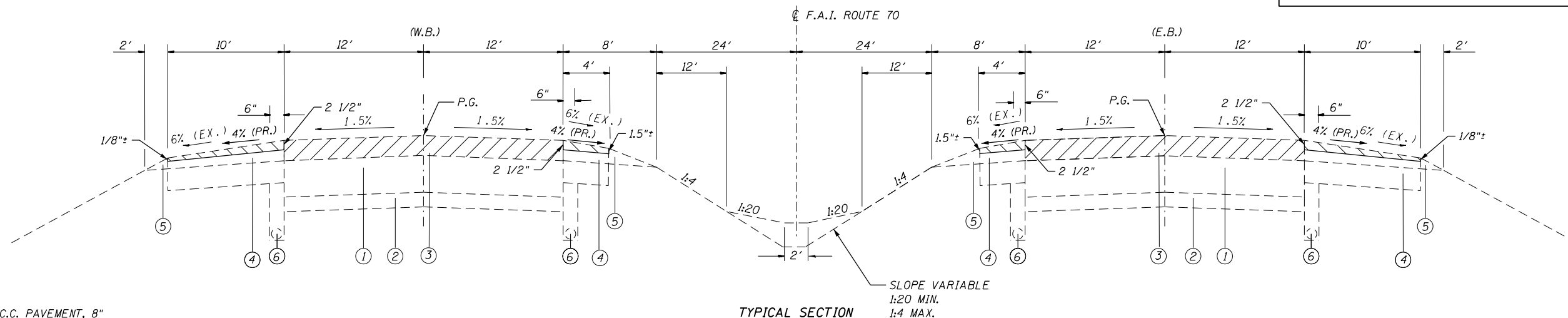
[Signature] DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

[Signature] DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

BEGINNING AT E.O.P. MILL EXISTING SHOULDERS TO CORRECT 6% SLOPE TO 4%.
(CONTROL DEPTH AT E.O.P. = 2 1/2")

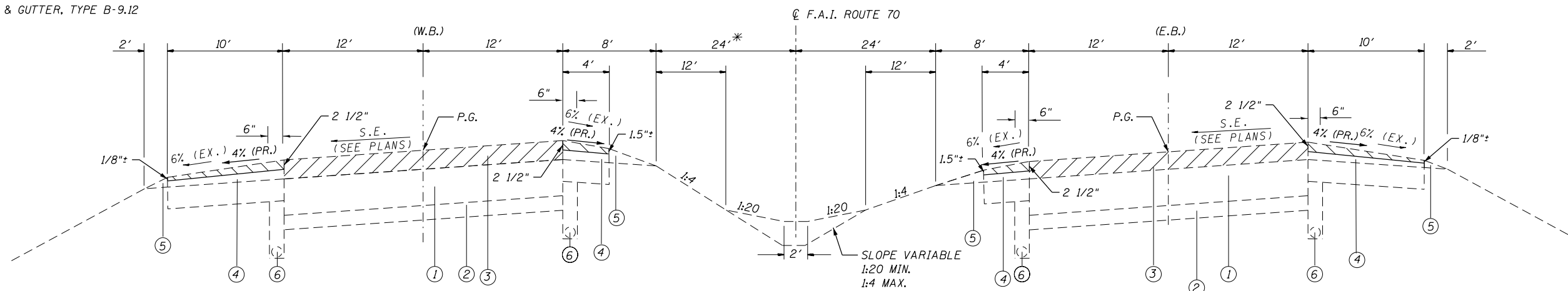


TYPICAL SECTION

- STA. 1588+00.00 TO STA. 1589+52.00 EB
- STA. 1588+00.00 TO STA. 1589+60.00 WB
- STA. 1599+52.00 TO STA. 1627+15.21 EB
- STA. 1599+60.00 TO STA. 1627+15.21 WB
- STA. 1641+10.77 TO STA. 1644+66.72
- STA. 1666+55.61 TO STA. 1669+28.00
- STA. 1684+38.00 TO STA. 1690+49.00 EB
- STA. 1684+38.00 TO STA. 1690+47.00 WB
- STA. 1700+49.00 TO STA. 1807+04.11 EB
- STA. 1700+47.00 TO STA. 1807+04.11 WB

LEGEND

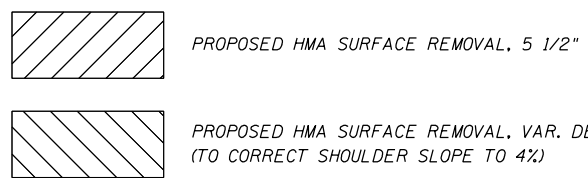
- ① EXISTING CONTINUOUSLY REINFORCED P.C.C. PAVEMENT, 8"
- ② EXISTING STABILIZED SUB-BASE, 4"
- ③ EXISTING HMA RESURFACING, 5 1/2"
- ④ EXISTING HMA SHOULDERS
- ⑤ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑥ EXISTING PIPE UNDERDRAINS
- ⑦ EXISTING CONTINUOUSLY REINFORCED P.C.C. OVERLAY, 8"
- ⑧ EXISTING HMA CONCRETE SUBCLASS I-II, 3"
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- ⑩ EXISTING CONCRETE PAVEMENT, 10"
- ⑪ EXISTING BITUMINOUS RESURFACING, 3/4"
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- ⑬ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑭ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.12
- ⑮ EXISTING P.C.C. SIDEWALK, 4"



TYPICAL SUPERELEVATED SECTION

- STA. 1627+15.21 TO STA. 1641+10.77
- STA. 1644+66.72 TO STA. 1666+55.61
- STA. 1669+28.00 TO STA. 1684+38.00
- STA. 1807+04.11 TO STA. 1809+48.00 EB
- STA. 1807+04.11 TO STA. 1809+43.00 WB
- STA. 1819+40.00 TO STA. 1854+72.34 EB
- STA. 1819+51.00 TO STA. 1854+72.34 WB

- () PROVIDED FOR INFO. ONLY
- ⑳ PROPOSED POLY-HMA SURFACE COURSE SMA, N80 (TWO - 2 1/2" LIFTS)
- ㉑ PROPOSED HMA SHOULDERS (2 1/2")
- ㉒ PROPOSED PIPE UNDERDRAINS
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- ㉖ PROPOSED HMA STABILIZED SUBBASE 4"
- ㉗ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 12"
- ㉘ PROPOSED HMA BASE COURSE, (SEE STAGE CONSTRUCTION DETAILS)
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- ㉜ PROPOSED POLY-HMA SURFACE COURSE, MIX "D", N90 (2")
- ㉝ PROPOSED LEVELING BINDER (MM), IL-9.5F, N90 (1 1/4")
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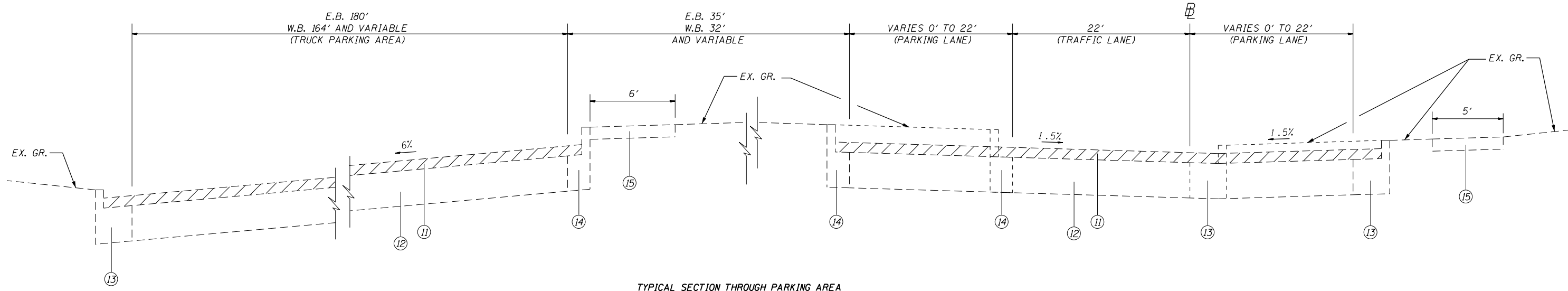


* STA. 1840+00 TO STA. 1854+72.34 (W.B. LANES)
WIDTH VARIES FROM 24' TO 25'

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TYPICAL SECTIONS				F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISED -						CONTRACT NO. 76F94					

MADISON/BOND

ILLINOIS FED. AID PROJECT



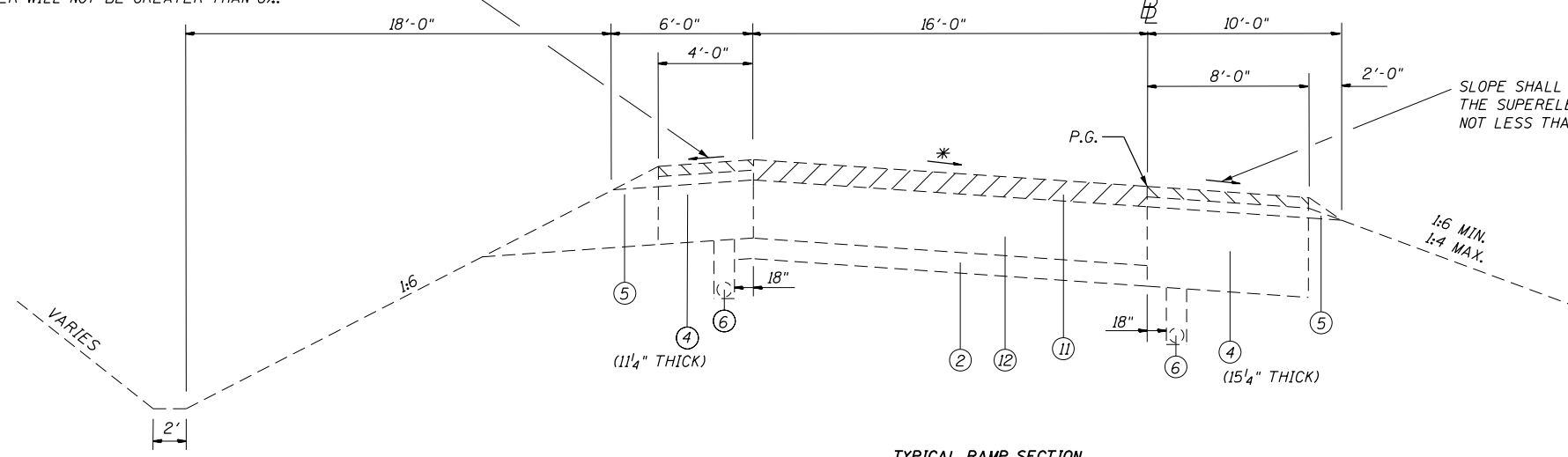
TYPICAL SECTION THROUGH PARKING AREA
EB & WB REST AREA

WHEN THE SUPERELEVATION RATE OF THE PAVEMENT IS BETWEEN 0% AND 4%, THE SHOULDER SHALL BE SLOPED AT 4%.
WHEN THE SUPERELEVATION RATE OF THE PAVEMENT EXCEEDS 4%, THE SHOULDER SHALL BE SLOPED SO THAT THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER WILL NOT BE GREATER THAN 8%.

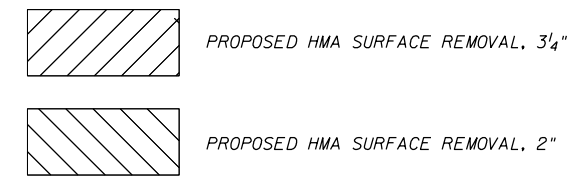
* 1.5% SLOPE ON TANGENT.
SLOPE VARIES ON S.E. (MAX. 8%)
(SEE PLANS)

LEGEND

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TYPICAL RAMP SECTION
EB & WB REST AREA



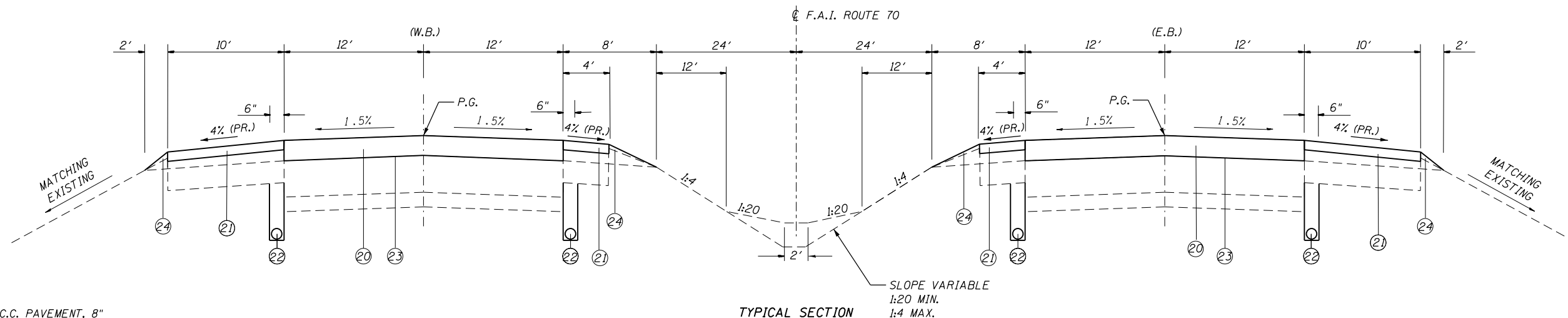
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS			
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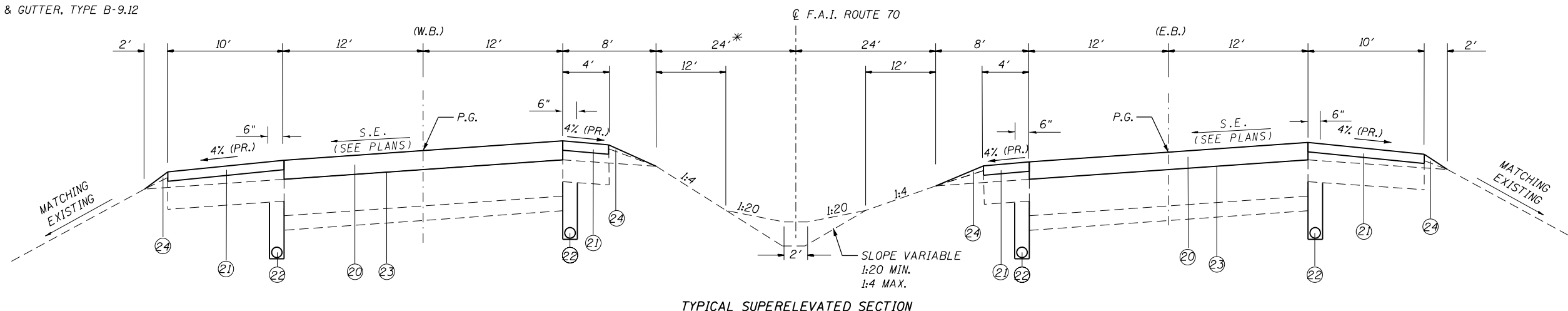
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	24
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

MADISON/BOND



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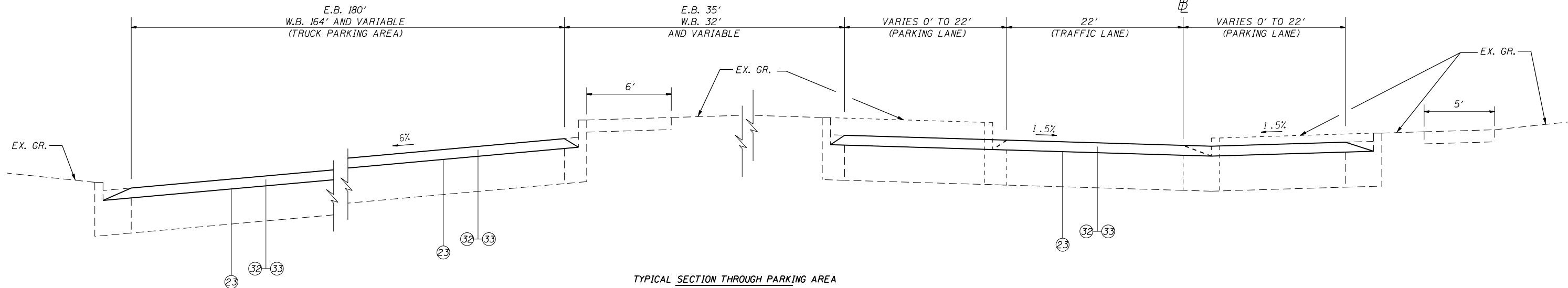
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Default		CHECKED -	REVISED -					70	60-(13,14,15)RS-3		226	25
		DATE -	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 76F94		ILLINOIS FED. AID PROJECT		



TYPICAL SECTION THROUGH PARKING AREA
EB & WB REST AREA

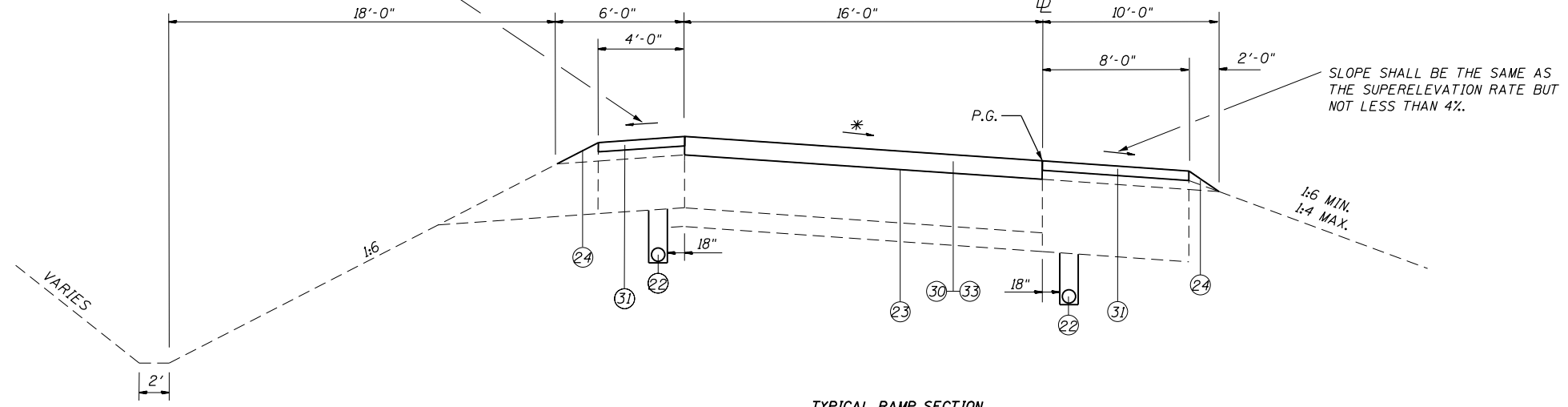
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* 1.5% SLOPE ON TANGENT.
SLOPE VARIES ON S.E. (MAX. 8%)
(SEE PLANS)



TYPICAL RAMP SECTION
EB & WB REST AREA

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
Default			
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED TYPICAL SECTIONS			
SCALE: N.T.S.	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	29
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

• MADISON/BOND

①

NOTICE
MOVE OVER - SLOW DOWN
FOR STOPPED EMERGENCY
OR MAINTENANCE VEHICLES
IT'S THE LAW

STA. 12+47 WB RAMP
 17' LT. (WHITE BOARD)
 (SEE SIGN DETAILS)

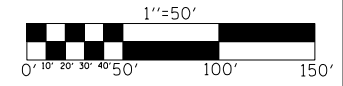
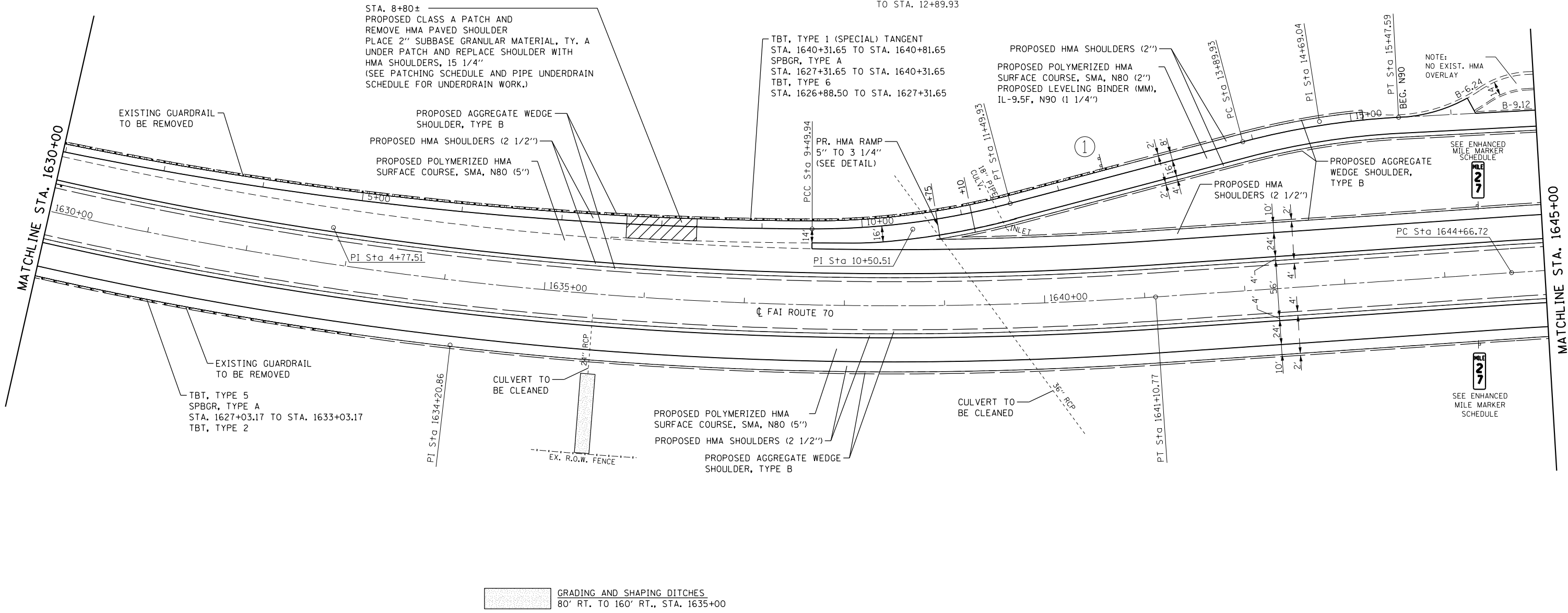
EXIST. CURVE RAWBC3
 PI STA. = 14+69.04
 $\Delta = 11^\circ 49' 30''$ (RT)
 $D = 7^\circ 30' 00''$
 $R = 763.94'$
 $T = 79.11'$
 $L = 157.67'$
 $E = 4.09'$
 $e = 8.0\%$
 P.C. STA. = 13+89.93
 P.T. STA. = 15+47.59
 ATTAIN S.E. STA. 12+97.93
 TO STA. 14+41.93
 REMOVE S.E. STA. 15+03.59
 TO STA. 16+47.59



EXIST. CURVE RAWBC1
 PI STA. = 4+77.51
 $\Delta = 14^\circ 27' 50''$ (LT)
 $D = 1^\circ 31' 21''$
 $R = 3,763.00'$
 $T = 477.51'$
 $L = 949.94'$
 $E = 30.18'$
 P.C. STA. = 0+00.00
 P.T. STA. = 9+49.94
 MATCH TO EXISTING
 PAVEMENT CROSS SLOPE

EXIST. CURVE C2
 PI STA. = 1634+20.86
 $\Delta = 20^\circ 56' 00''$ (LT)
 $D = 1^\circ 30' 00''$
 $R = 3,819.72'$
 $T = 705.64'$
 $L = 1,395.56'$
 $E = 64.63'$
 $e = 2.0\%$
 P.C. STA. = 1627+15.21
 P.T. STA. = 1641+10.77
 ATTAIN S.E. STA. 1626+45.25
 TO STA. 1627+85.25
 REMOVE S.E. STA. 1640+40.80
 TO STA. 1642+80.80

EXIST. CURVE RAWBC2
 PI STA. = 10+50.51
 $\Delta = 15^\circ 00' 00''$ (LT)
 $D = 7^\circ 30' 02''$
 $R = 763.90'$
 $T = 100.57'$
 $L = 199.99'$
 $E = 6.59'$
 $e = 8.0\%$
 P.C. STA. = 9+49.94
 P.T. STA. = 11+49.93
 ATTAIN S.E.
 MATCH TO EXISTING
 PAVEMENT CROSS SLOPE
 REMOVE S.E. STA. 10+79.93
 TO STA. 12+89.93



FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEET FAI 70 (I-70)	SCALE: 1"=50'	SHEET	OF	SHEETS	STA. 1630+00	TO STA. 1645+00
<p>Default</p>						<p>CONTRACT NO. 76F94</p>					
<p>PLOT DATE = 5/6/2016</p>						<p>ILLINOIS FED. AID PROJECT</p>					

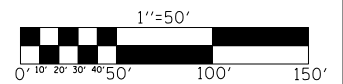
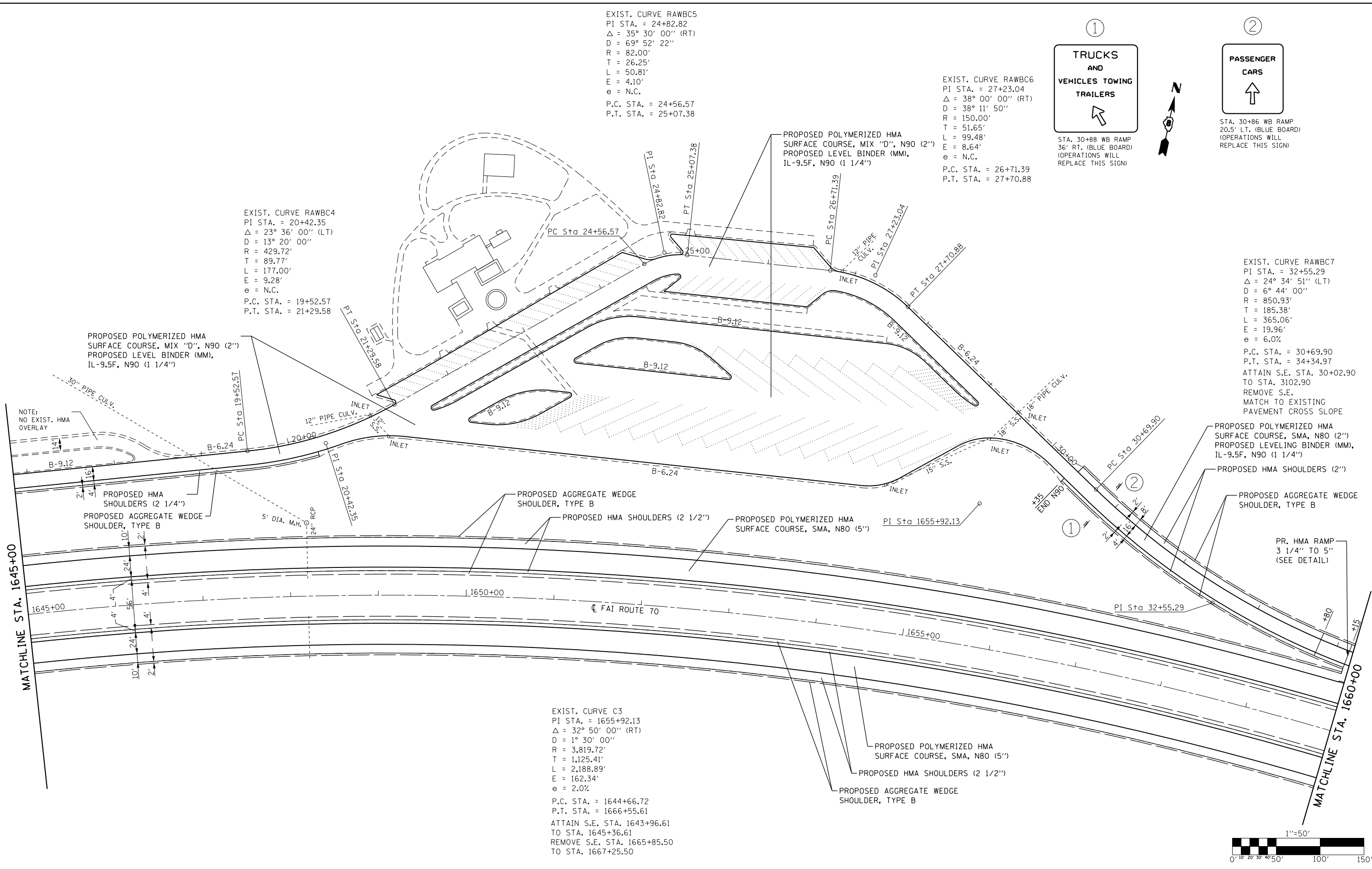
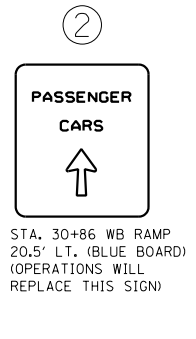
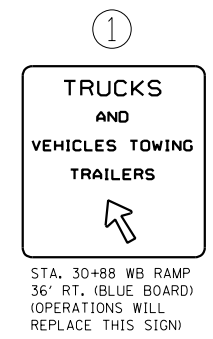
EXIST. CURVE RAWBC5
 PI STA. = 24+82.82
 $\Delta = 35^\circ 30' 00''$ (RT)
 D = 69° 52' 22"
 R = 82.00'
 T = 26.25'
 L = 50.81'
 E = 4.10'
 e = N.C.
 P.C. STA. = 24+56.57
 P.T. STA. = 25+07.38

EXIST. CURVE RAWBC6
 PI STA. = 27+23.04
 $\Delta = 38^\circ 00' 00''$ (RT)
 D = 38° 11' 50"
 R = 150.00'
 T = 51.65'
 L = 99.48'
 E = 8.64'
 e = N.C.
 P.C. STA. = 26+71.39
 P.T. STA. = 27+70.88

EXIST. CURVE RAWBC4
 PI STA. = 20+42.35
 $\Delta = 23^\circ 36' 00''$ (LT)
 D = 13° 20' 00"
 R = 429.72'
 T = 89.77'
 L = 177.00'
 E = 9.28'
 e = N.C.
 P.C. STA. = 19+52.57
 P.T. STA. = 21+29.58

EXIST. CURVE RAWBC7
 PI STA. = 32+55.29
 $\Delta = 24^\circ 34' 51''$ (LT)
 D = 6° 44' 00"
 R = 850.93'
 T = 185.38'
 L = 365.06'
 E = 19.96'
 e = 6.0%
 P.C. STA. = 30+69.90
 P.T. STA. = 34+34.97
 ATTAIN S.E. STA. 30+02.90
 TO STA. 3102.90
 REMOVE S.E.
 MATCH TO EXISTING
 PAVEMENT CROSS SLOPE

EXIST. CURVE C3
 PI STA. = 1655+92.13
 $\Delta = 32^\circ 50' 00''$ (RT)
 D = 1° 30' 00"
 R = 3,819.72'
 T = 1,125.41'
 L = 2,188.89'
 E = 162.34'
 e = 2.0%
 P.C. STA. = 1644+66.72
 P.T. STA. = 1666+55.61
 ATTAIN S.E. STA. 1643+96.61
 TO STA. 1645+36.61
 REMOVE S.E. STA. 1665+85.50
 TO STA. 1667+25.50



FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEET FAI 70 (I-70)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
Default		CHECKED -	REVISED -		SCALE: 1"=50'	SHEET	OF	SHEETS	STA. 1645+00	TO STA. 1660+00	70	60-(13,14,15)RS-3	•	226	54
		DATE -	REVISED -								CONTRACT NO. 76F94				

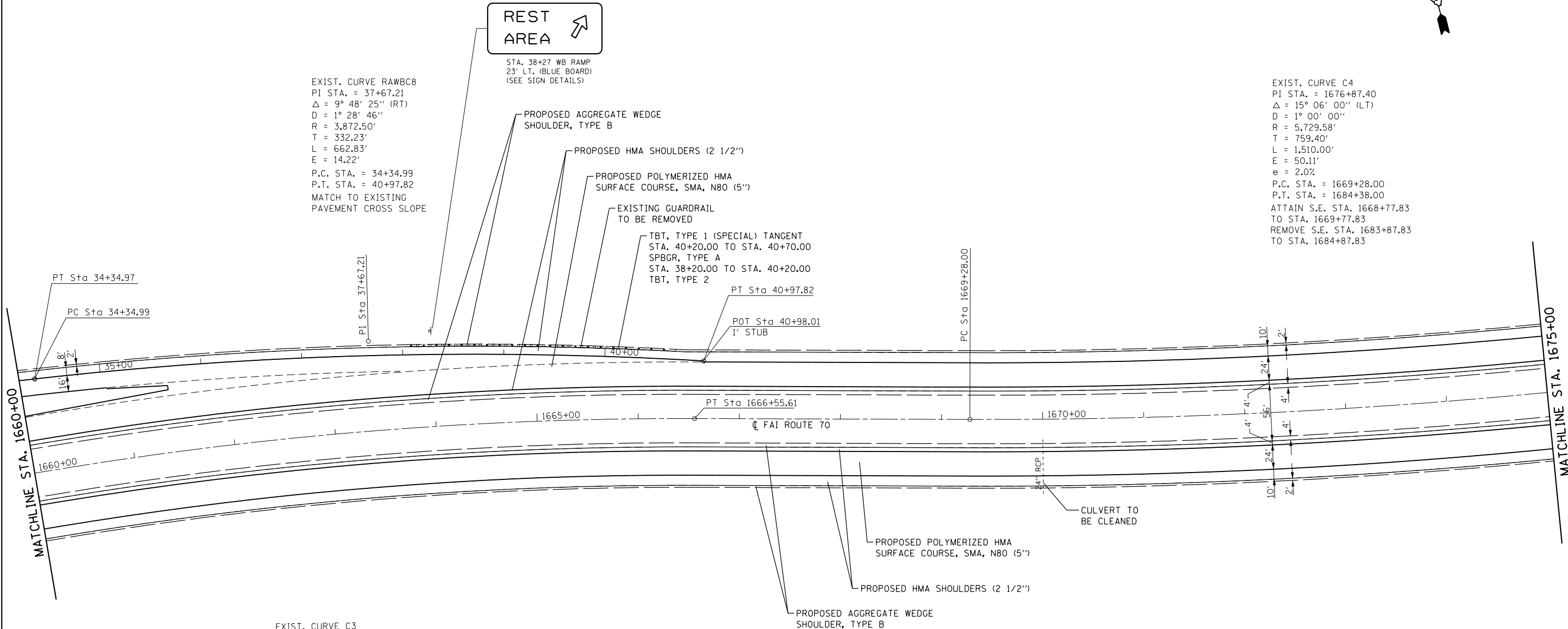


REST AREA

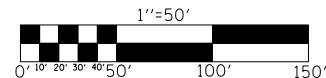
STA. 38+27 WB RAMP
23' LT. (BLUE BOARD)
(SEE SIGN DETAILS)

EXIST. CURVE RAWBC8
PI STA. = 37+67.21
 $\Delta = 9^\circ 48' 25''$ (RT)
D = 1° 28' 46"
R = 3,872.50'
T = 332.23'
L = 662.83'
E = 14.22'
P.C. STA. = 34+34.99
P.T. STA. = 40+97.82
MATCH TO EXISTING
PAVEMENT CROSS SLOPE

EXIST. CURVE C4
PI STA. = 1676+87.40
 $\Delta = 15^\circ 06' 00''$ (LT)
D = 1° 00' 00"
R = 5,729.58'
T = 759.40'
L = 1,510.00'
E = 50.11'
e = 2.0%
P.C. STA. = 1669+28.00
P.T. STA. = 1684+38.00
ATTAIN S.E. STA. 1668+77.83
TO STA. 1669+77.83
REMOVE S.E. STA. 1683+87.83
TO STA. 1684+87.83



EXIST. CURVE C3
PI STA. = 1655+92.13
 $\Delta = 32^\circ 50' 00''$ (RT)
D = 1° 30' 00"
R = 3,819.72'
T = 1,125.41'
L = 2,188.89'
E = 162.34'
e = 2.0%
P.C. STA. = 1644+66.72
P.T. STA. = 1666+55.61
ATTAIN S.E. STA. 1643+96.61
TO STA. 1645+36.61
REMOVE S.E. STA. 1665+85.50
TO STA. 1667+25.50



• MADISON/BOND

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
Default			
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET FAI 70 (I-70)	
SCALE: 1"=50'	SHEET OF SHEETS
STA. 1660+00	TO STA. 1675+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	55
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				