CONTRACT NO. 98950

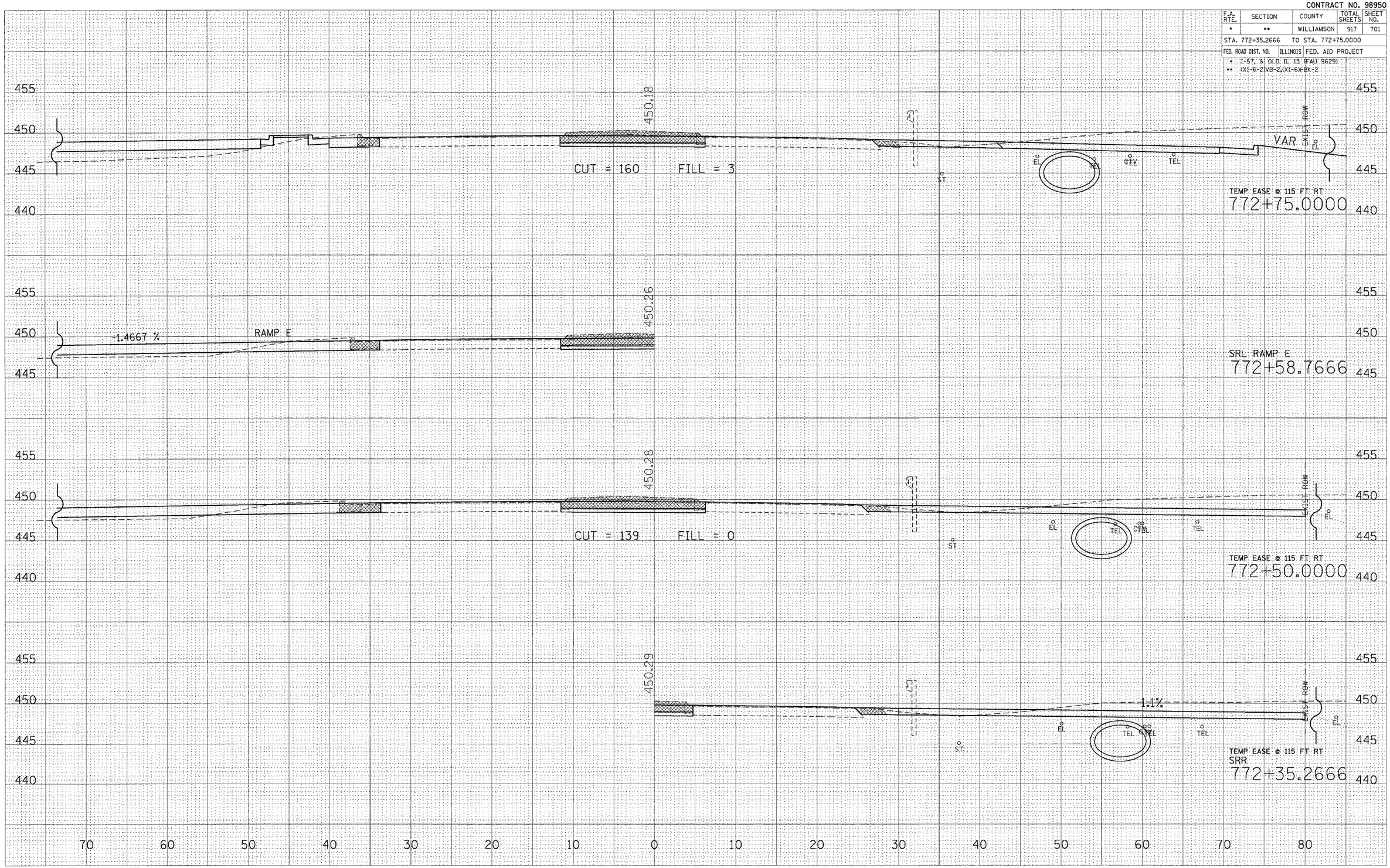
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	701

STA. 772+35.2666 TO STA. 772+75.0000

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

* I-57, & OLD IL 13 (FAU 9629)

** (X1-6-2)VB-2,(X1-6)RBK-2



STA 772+35.2666 TO STA 772+75.0000 OLD 13

FINAL SURVEY / NOTE BOOK / NO.
SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED / BY / DATE

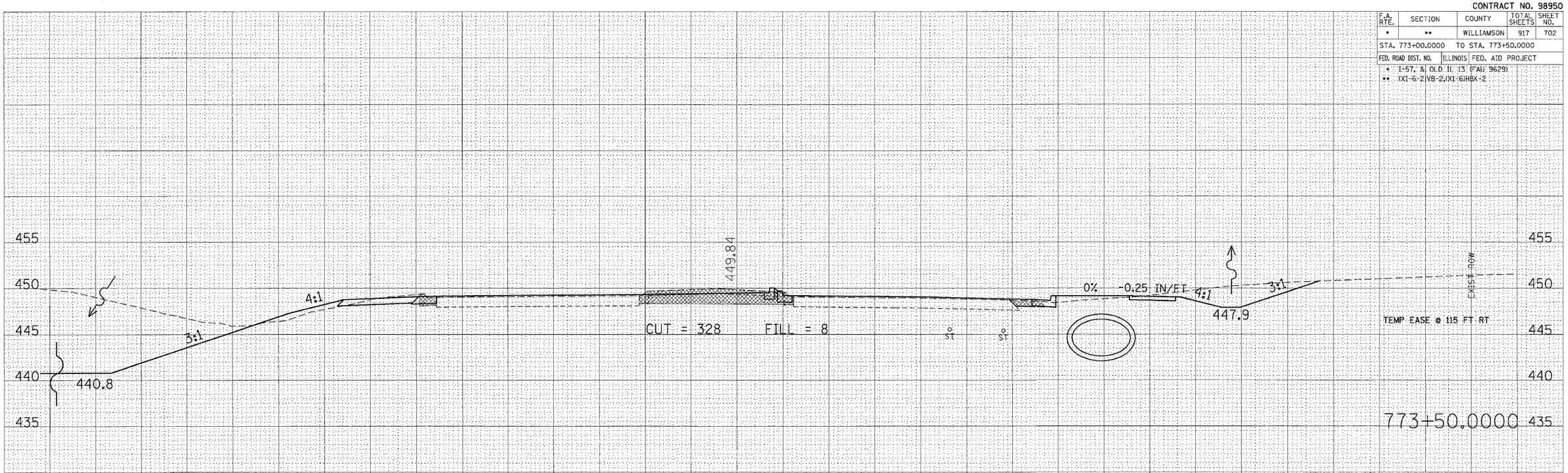
ORIGINAL SURVEY / NOTE BOOK / NO.
SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED / BY / DATE

PLOT DATE = 10/25/2006
FILE NAME = c:\projects\d9802802\old13\xsold13sht.dgn
PLOT SCALE = 5.0000 ' / IN.
USER NAME = tawenderlich

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	702
STA. 773+00.0000	TO STA. 773+50.0000			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (XI-6-2)VB-2,(XI-6)HBK-2



STA 773+00.0000 TO STA 773+50.0000 OLD 13

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NO.	

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NOTE BOOK	
NO.	

PLOT DATE = 10/25/2006
FILE NAME = c:\projects\xhrd98\2\vid13\vzold13vert98.dgn
PLOT SCALE = 1.000 '/ IN.
USER NAME = lavenderba

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	703
STA. 773+75.0000	TO STA. 774+25.0000			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBX-2

FINAL SURVEY | ORIGINAL SURVEY
NOTE BOOK | SURVEYED BY
NO. | PLOTTED BY
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

EXIST ROW @ 87.5 FT LT
3:1
3:1
445.0
-48:1
449.53
CUT = 54 FILL = 5
-0.25 IN/FT
4:1
3:1
447.6
EXIST ROW
774+25.0000

EXIST ROW @ 95.8 FT LT
3:1
3:1
443.0
-48:1
449.66
CUT = 119 FILL = 9
-0.25 IN/FT
4:1
3:1
447.5
EXIST ROW
774+00.0000

DSFL = 440.98
440.9
3:1
-48:1
449.75
CUT = 285 FILL = 9
50:1
4:1
3:1
447.4
USFL = 441.50
EXIST ROW
773+75.0000

CULVERT LENGTH 83 FT
PRECAST CONCRETE BOX CULVERT 8' X 4'
BOX CULVERT END SECTION, CULVERT NO. 1 LT
JUNCTION BOX RT

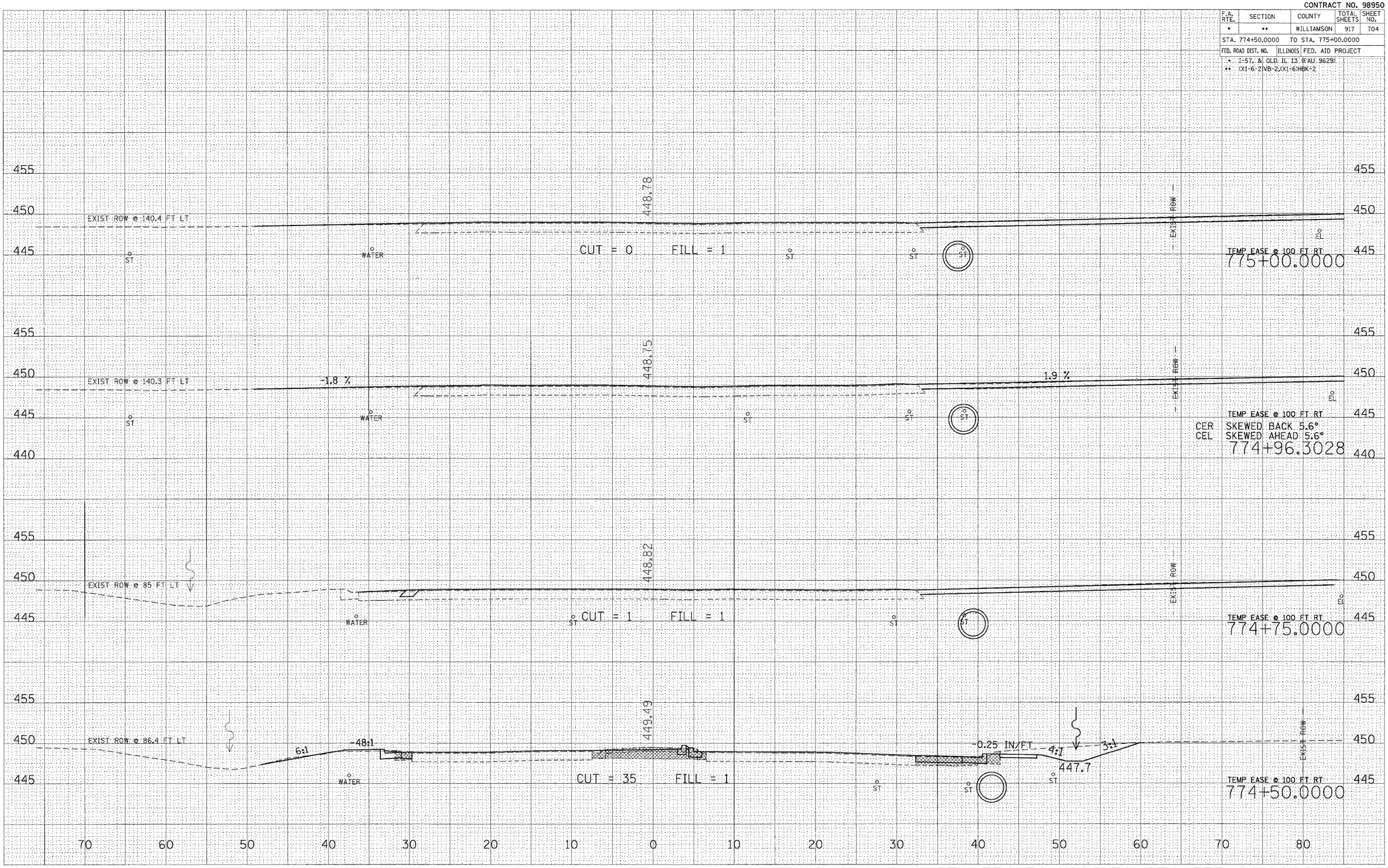
STA 773+75.0000 TO STA 774+25.0000 OLD 13

PLOT DATE = 10/25/2006
FILE NAME = e:\pro_jects\d902802\old13\xzold13sht1.dgn
PLOT SCALE = 5.0000 ' / IN.
USER NAME = lavenderbo

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	704
STA. 774+50.0000		TO STA. 775+00.0000		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



STA 774+50.0000 TO STA 775+00.0000 OLD 13

FINAL SURVEY — NOTE BOOK — NO.
SURVEYED — BY — DATE
PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

ORIGINAL SURVEY — NO.
SURVEYED — BY — DATE
PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

PLOT DATE = 10/25/2006
FILE NAME = c:\projects\d902002\old13\xsold13.xsl
PLOT SCALE = 5.0000 ' / IN.
PLOT NO. = 3
USER NAME = lavendarb

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	705

STA. 775+25.0000 TO STA. 776+00.0000

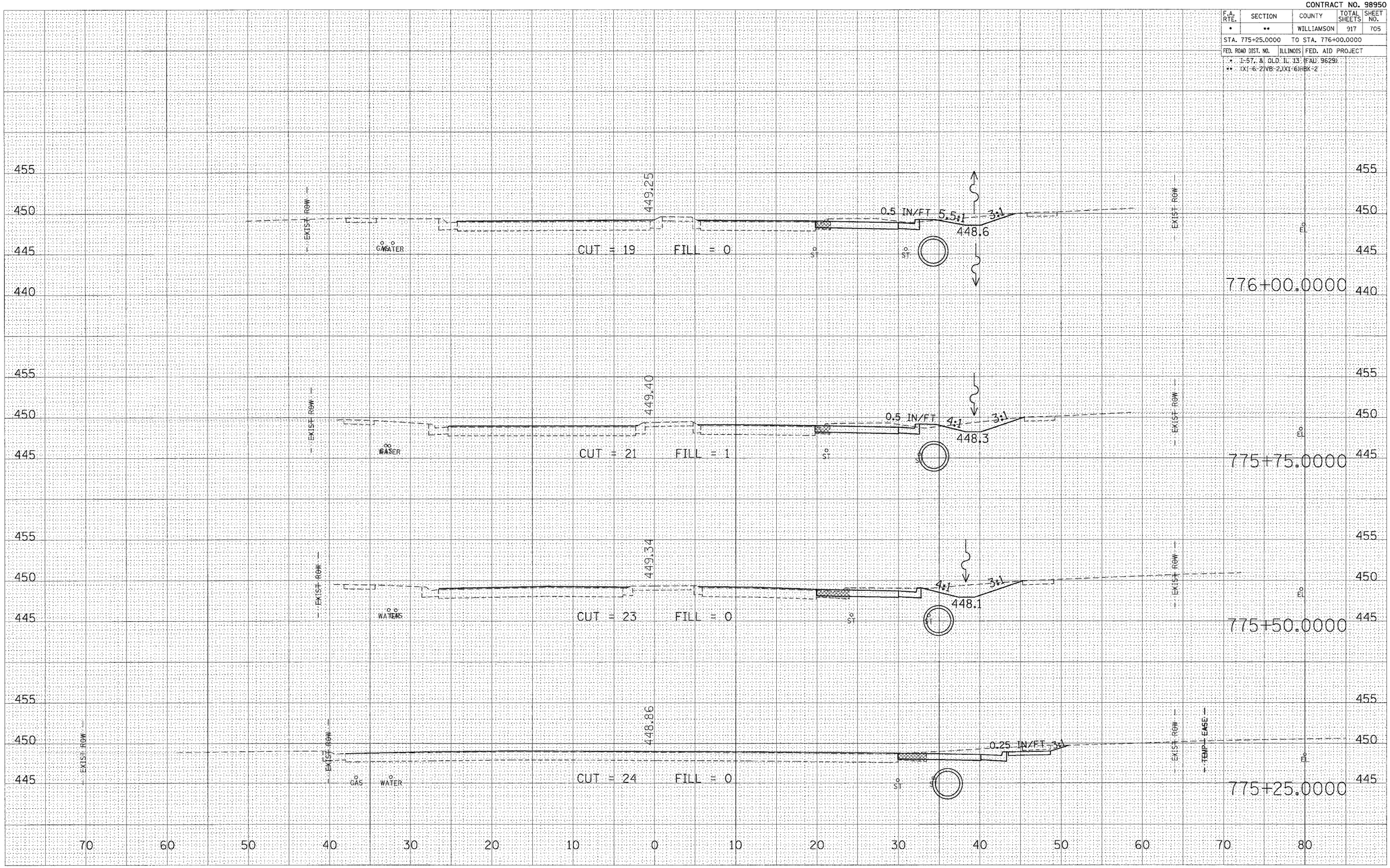
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

* I-57, & OLD IL 13 (FAU 9629).
** (X1-6-2)VB-2,(X1-6)RBX-2

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

PLOT DATE = 10/25/2006
FILE NAME = c:\pro_gecks\d9826B2\old13\xzold13xe1.dgn
PLOT SCALE = 5.0000 ' / IN.
USER NAME = lawrencebe



STA 775+25.0000 TO STA 776+00.0000 OLD 13

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	WILLIAMSON	917	706

STA. 776+25.0000 TO STA. 776+75.0000

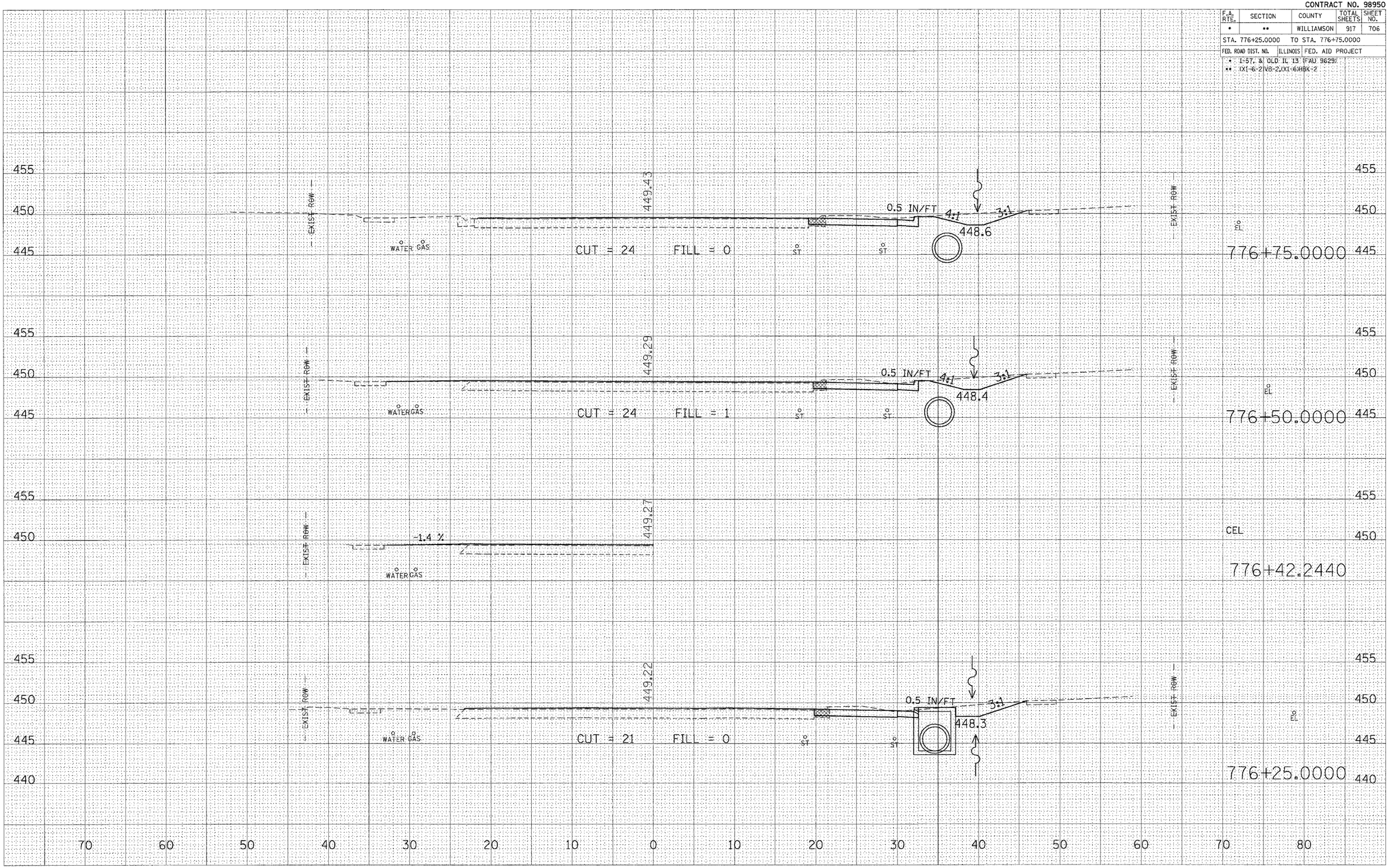
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

• I-57, & OLD IL 13 (FAU 9629)
•• (X1-6-2)VB-2,(X1-6)HBK-2

FINAL SURVEY NOTE BOOK | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE | NO.

ORIGINAL SURVEY NOTE BOOK | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE | NO.

PLOT DATE = 10/25/2006
FILE NAME = c:\pro_posts\d9602802\old13\zzold13vert.dgn
PLOT SCALE = 5.0000 ' / IN.
USER NAME = lawendelbo



STA 776+25.0000 TO STA 776+75.0000 OLD 13

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	707
STA. 777+00.0000	TO STA. 777+50.0000			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 1-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

FINAL SURVEY — NOTE BOOK — NO.
SURVEYED — BY
PLOTTED — DATE
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY — NO.
SURVEYED — BY
PLOTTED — DATE
TEMPLATE
AREAS
AREAS CHECKED

PLOT DATE = 10/25/2006
FILE NAME = c:\projects\d9628802\old13\xs01.dgn
PLOT SCALE = 5.0000 ' / IN.
USER NAME = lavendaba

455
450
445

EXIST ROW — WATER — GAS — ST — ST — EL — EXIST ROW

450.06 — CUT = 8 — FILL = 0 — 777+50.0000

450.02 — 3.24 % — CER — 777+48.2040

449.58 — 0.25 IN/FT — CUT = 20 — FILL = 0 — 777+25.0000

449.60 — 0.5 IN/FT — 4:1 — 3:1 — 448.8 — CUT = 25 — FILL = 0 — 777+00.0000

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

STA 777+00.0000 TO STA 777+50.0000 OLD 13

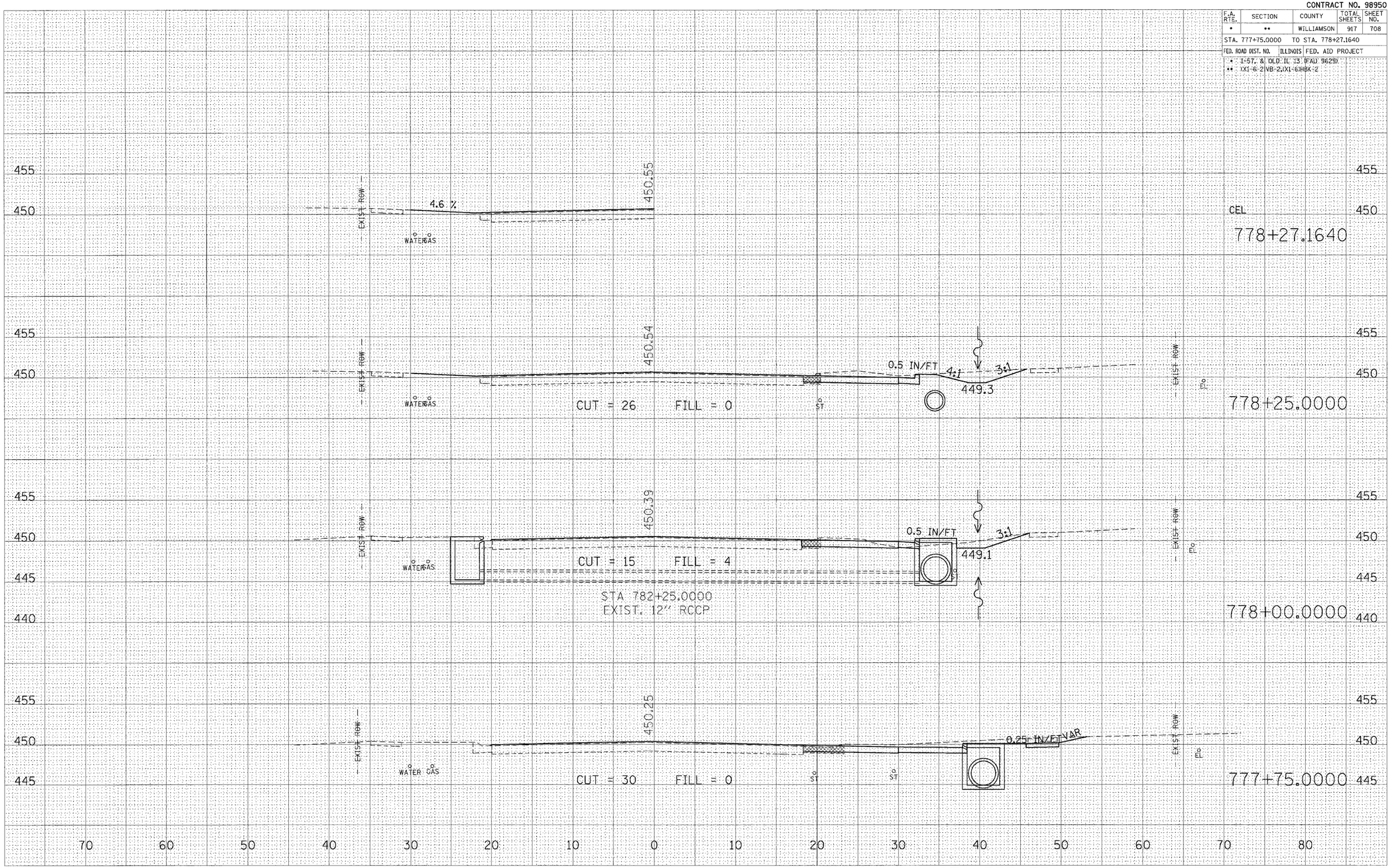
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	WILLIAMSON	917	708

STA. 777+75.0000 TO STA. 778+27.1640

FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

• I-57, & OLD IL 13 (FAU 9625)
•• (XI-6-2)VB-2,(XI-6)HBX-2



STA 777+75.0000 TO STA 778+27.1640 OLD 13

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NO. — BY — DATE

PLOT DATE = 10/25/2006
FILE NAME = c:\projects\d982002\old13zoldsht.dgn
PLOT SCALE = 40.0000 '/ IN.
USER NAME = lavenderka

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	709
STA. 778+50.0000		TO STA. 779+00.0000		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

FINAL SURVEY — SURVEYED — BY — DATE
NOTE BOOK — PLOTTED
NO. — TEMPLATE
AREAS
AREAS CHECKED

455
450
445

EXIST ROW — WATER GAS — 450.93 — CUT = 23 — FILL = 0 — ST — 0.5 IN/FT — 6:1 — 4:1 — 450.1 — EL — EXIST ROW

779+00.0000

455
450

EXIST ROW — WATER GAS — 5.6 % — 450.86 — CEL

778+81.6940

ORIGINAL SURVEY — SURVEYED — BY — DATE
NO. — PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

455
450

EXIST ROW — WATER GAS — 450.83 — CUT = 27 — FILL = 0 — ST — 0.5 IN/FT — 4:1 — 4:1 — 449.8 — EL — EXIST ROW

778+75.0000

455
450

EXIST ROW — WATER GAS — 450.68 — CUT = 26 — FILL = 0 — ST — 0.5 IN/FT — 4:1 — 4:1 — 449.6 — EL — EXIST ROW

778+50.0000

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

STA 778+50.0000 TO STA 779+00.0000 OLD 13

PLOT DATE = 10/25/2006
FILE NAME = c:\projects\PR02382\old13\zsold13sht.dgn
PLOT SCALE = 5.0000 ' / IN.
USER NAME = lewandos

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	710

STA. 779+25.0000 TO STA. 780+00.0000

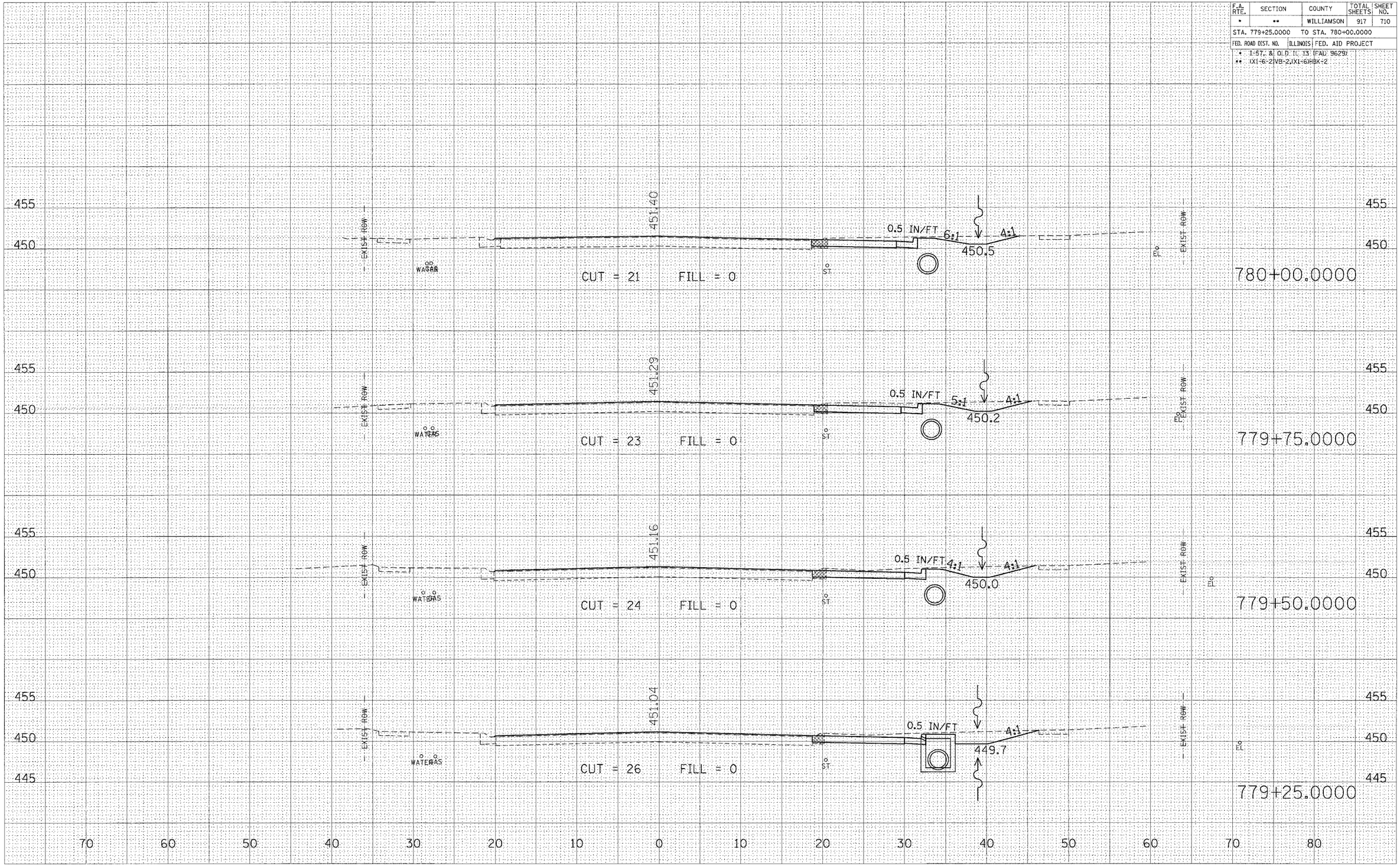
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBX-2

FINAL SURVEY NOTE BOOK | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | NO. | BY | DATE

ORIGINAL SURVEY NOTE BOOK | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | NO. | BY | DATE

PLOT DATE = 10/25/2006
FILE NAME = c:\projects\d982082\old13\xsold13xsrtns.
PLOT SCALE = 5.0000 ' / IN.
USER NAME = lawendorba



STA 779+25.0000 TO STA 780+00.0000 OLD 13

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	711
STA. 780+25.0000		TO STA. 780+75.0000		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)BK-2

FINAL SURVEY NOTE BOOK NO.
SURVEYED BY
PLOTTED BY
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

451.78
0.5 IN/FT
5:1
4:1
450.5
WAGAR
CUT = 22 FILL = 0
ST
FL
780+75.0000

451.63
0.5 IN/FT
4:1
450.2
WAGAR
CUT = 27 FILL = 0
ST
FL
780+50.0000

451.52
-0.9 %
WAGAR
CEL
780+28.9386

451.50
0.5 IN/FT
6:1
4:1
450.7
WAGAR
CUT = 20 FILL = 1
ST
FL
780+25.0000

455
450
445
70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

STA 780+25.0000 TO STA 780+75.0000 OLD 13

ORIGINAL SURVEY
SURVEYED BY
PLOTTED BY
TEMPLATE
AREAS
AREAS CHECKED
NO.
BY
DATE

PLOT DATE = 12/25/2006
FILE NAME = c:\projects\d0282\old13\xsold13xsht.dgn
PLOT SCALE = 5.0000 ' / IN.
USER NAME = lawmadea

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	WILLIAMSON	917	712

STA. 780+97.8038 TO STA. 781+50.0000

FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

• I-57, & OLD IL 13 (FAU 9629)
•• (X1-6-2)VB-2,(X1-6)BOX-2

455
450

781+50.0000

452.10
0.5 IN/FT
6:1
4:1
451.2
GAS
CUT = 18
FILL = 0
ST
EL

781+25.0000

452.01
0.5 IN/FT
6:1
4:1
451.0
GAS
CUT = 19
FILL = 0
ST
FL

781+00.0000

451.92
0.5 IN/FT
5:1
4:1
450.7
WATER
CUT = 20
FILL = 1
ST
FL

780+97.8038

451.91
-1.2 %
WATER
CEL

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

STA 780+97.8038 TO STA 781+50.0000 OLD 13

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		BY
PLOTTED		DATE
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	
SURVEYED	BY
PLOTTED	DATE
TEMPLATE	
AREAS	
AREAS CHECKED	

PLOT DATE = 10/25/2005
FILE NAME = c:\projects\x0208d\x1d03xzzold13xsht1.mx
PLOT SCALE = 5.2000 ' / IN.
USER NAME = brandenba

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	713

STA. 781+75.0000 TO STA. 782+13.5528

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

* I-57, & OLD IL 13 (FAU 9629)
** (XI-6-2)VB-2,(XI-6)HBK-2

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

PLOT DATE = 10/25/2006
FILE NAME = c:\projects\vm2002\old13\xsd\cnt98950.
PLOT SCALE = 1.0000 '/ IN.
USER NAME = lavenderba

455
450

452.43
0.6 %
GAS
CEL
782+13.5528

452.36
GAS
CUT = 9 FILL = 0
ST
FL
782+00.0000

452.27
3.9 %
FL
CER
SKEWED AHEAD 14.4°
781+83.4436

452.22
9.2:1
GAS
CUT = 19 FILL = 0
ST
FL
781+75.0000

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

STA 781+75.0000 TO STA 782+13.5528 OLD 13

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	714

STA. 782+25.0000 TO STA. 782+92.9297

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

* I-57, & OLD IL 13 (FAU 9629)
** (XI-6-2)VB-2,(XI-6)HBK-2

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

PLOT DATE = 10/25/2006
FILE NAME = c:\proj_recs\d9902882\old13\xzold13sht1.dgn
PLOT SCALE = 5.0000 ' / IN.
PLOT STYLE = SHEET
USER NAME = lavenderbo

460 455 450

-1.9 %

452.72

WATER GAS ST

CEL 782+92.9297

460 455 450

452.66

VAR

WATER GAS ST CUT = 4 FILL = 2 ST EL GAS

782+75.0000

460 455 450

452.57

VAR

WATER GAS ST CUT = 6 FILL = 0 ST EL GAS

782+50.0000

455 450 445

452.49

0.5 IN/FT VAR

GAS EL

STA 782+25.0000
EXIST. 15" RCCP

CUT = 11 FILL = 0

782+25.0000

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

STA 782+25.0000 TO STA 782+92.9297 OLD 13

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	715

STA. 783+00.0000 TO STA. 783+75.0000

FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

* I-57, & OLD IL 13 (FAU 9629)
** (XI-6-2)VB-2,(XI-6)HBX-2

460
455
450

453.08
VAR
WATER GAS ST
CUT = 3 FILL = 0
ST
EL GAS
783+75.0000

460
455
450

452.96
VAR
WATER GAS ST
CUT = 4 FILL = 0
ST
EL GAS
783+50.0000

460
455
450

452.85
VAR
WATER GAS ST
CUT = 4 FILL = 1
ST
EL GAS
783+25.0000

460
455
450

452.75
VAR
WATER GAS ST
CUT = 4 FILL = 3
ST
EL GAS
783+00.0000

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

STA 783+00.0000 TO STA 783+75.0000 OLD 13

FINAL SURVEY NOTE BOOK NO.
SURVEYED BY
PLOTTED DATE
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY
SURVEYED BY
PLOTTED DATE
TEMPLATE
AREAS
AREAS CHECKED

PLOT DATE = 10/25/2005
FILE NAME = c:\projects\02802\old13\xzold13sht4.dgn
PLOT SCALE = 5.0000 '/ IN.
USER NAME = lovanderbo

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	716

STA. 784+00.0000 TO STA. 784+75.0000

FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

* I-57, & OLD IL 13 (FAU 9629)

** (X1-6-2)VB-2,(X1-6)HBK-2

IMPROVEMENT ENDS
STA 785+23

453.42

453.30

453.19

VAR

CUT = 0 FILL = 0

CUT = 3 FILL = 0

784+50.0000

784+25.0000

784+00.0000

460
455
450
445

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

STA 784+00.0000 TO STA 784+75.0000 OLD 13

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

PLOT DATE = 11/27/2006
FILE NAME = c:\projects\r98280\old13\rold13sht.dgn
PLOT SCALE = 5.0000 ' / IN.
USER NAME = Jeffreyhall

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	717
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

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

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
DRAWN BY
STRUCTURE NO'S/ATNS CHKD
NOTE BOOK
NO.
DATE
BY

PLOT DATE = 12/6/2006
FILE NAME = c:\projects\x9828802\vold3\vold3p2.dgn
PLOT SCALE = 20.0000 ' / IN.
PLOT STYLE = headon
USER NAME = CRISP, TOPOCCRISP

STA. 762+09.35 WEST MAIN STREET =
STA. 10+00 CRISP DRIVE

REMOVAL OF EXISTING STRUCTURES NO. 6
RT. STA. 763+05

INLETS, TYPE A, TYPE 8 GRATE
17' LT. STA. 11+00
TOP OF GRATE ELEV. = 450.10
INVERT ELEV. = 447.35

PRC FLARED END SECTIONS 21"
53' RT. STA. 762+24.4
DSFL = 445.87

REMOVAL OF EXISTING STRUCTURES NO. 5
RT. STA. 762+56

PIPE CULVERTS, CLASS A, TYPE 1 21"

℄ FAU 9629 (OLD IL RTE. 13)
(WEST MAIN STREET)

MANHOLES, TYPE A, 6'-DIAMETER,
TYPE 1 FRAME, OPEN LID
53' RT. STA. 761+85
TOP OF GRATE ELEV. = 448.40
INVERT ELEV. = 445.45

25' R. (TYP.)

30' R. (TYP.)

STORM SEWER, CLASS A, TYPE 2 12"

MANHOLES, TYPE A, 5'-DIAMETER,
TYPE 1 FRAME, OPEN LID
15' RT. STA. 11+25
TOP OF GRATE ELEV. = 451.30
INVERT ELEV. = 446.30

STORM SEWER, CLASS A, TYPE 2 21"

PIPE CULVERT, TYPE 1, REINFORCED CONCRETE-
ELLIPTICAL, EQUIVALENT ROUND-SIZE 27"

PRC FLARED END SECTIONS-ELLIPTICAL,
EQUIVALENT ROUND-SIZE 27"
53' RT. STA. 761+53.4
DSFL = 445.14

TEMPORARY EASEMENT

DRIVEWAY PAVEMENT REMOVAL

* PCC DRIVEWAY PAVEMENT 6"
ENDS STA. 10+78.51 CRISP DRIVE

PROP. CURVE CRISP-1
PI STA. = 11+14.04
Δ = 46° 43' 49" (LT)
D = 57° 17' 45"
R = 100.00'
T = 43.20'
L = 81.56'
E = 8.93'
P.C. STA. = 10+70.83
P.T. STA. = 11+52.39

20' 0 10' 20'

STA. 762+09.35 WEST MAIN STREET =
STA. 10+00 CRISP DRIVE

VPI STA. 10+18.00
ELEVATION 449.24

EDGE OF LANE

PROP. EDGE OF PAVEMENT +30

PROP. EDGE OF SHOULDER +40

20.00' V.C.

60.00' V.C.

VPI STA. 11+30.00
ELEVATION 452.40

PROP. LEFT DITCH PROFILE

PROP. RIGHT DITCH PROFILE

-1.50%
-2.00%
+2.00%
+5.52%
+4.80%
+5.52%
+3.24%
+1.43%

+50
452.1

+25
451.30
TOP OF GRATE

+00
451.10
TOP OF GRATE

448.40
TOP OF GRATE

VPI STA. 10+40.26
ELEVATION 448.80

VPI STA. 10+78.51
ELEVATION 449.56

21"

12"

INVERT ELEV.
445.45

INVERT ELEV.
447.35

INVERT ELEV.
446.30

STORM SEWER PROFILE
17' LT. STA. 11+00 TO
15' RT. STA. 11+25

454.75

IMPROVEMENT ENDS STA. 12+94.49
MATCH EXISTING SURFACE

PROPOSED PROFILE CRISP DRIVE

EXISTING PROFILE ALONG ℄ CRISP DRIVE

	10+00	10+50	11+00	11+50	12+00	12+50
EXISTING	449.51	449.10	448.99	449.49	450.75	451.91
PROPOSED	449.38	448.99	448.53	451.37	451.83	452.12
EXISTING	452.65	453.04	453.40	453.76	454.11	454.47
PROPOSED	452.50	452.73	452.94	453.13	454.09	454.47

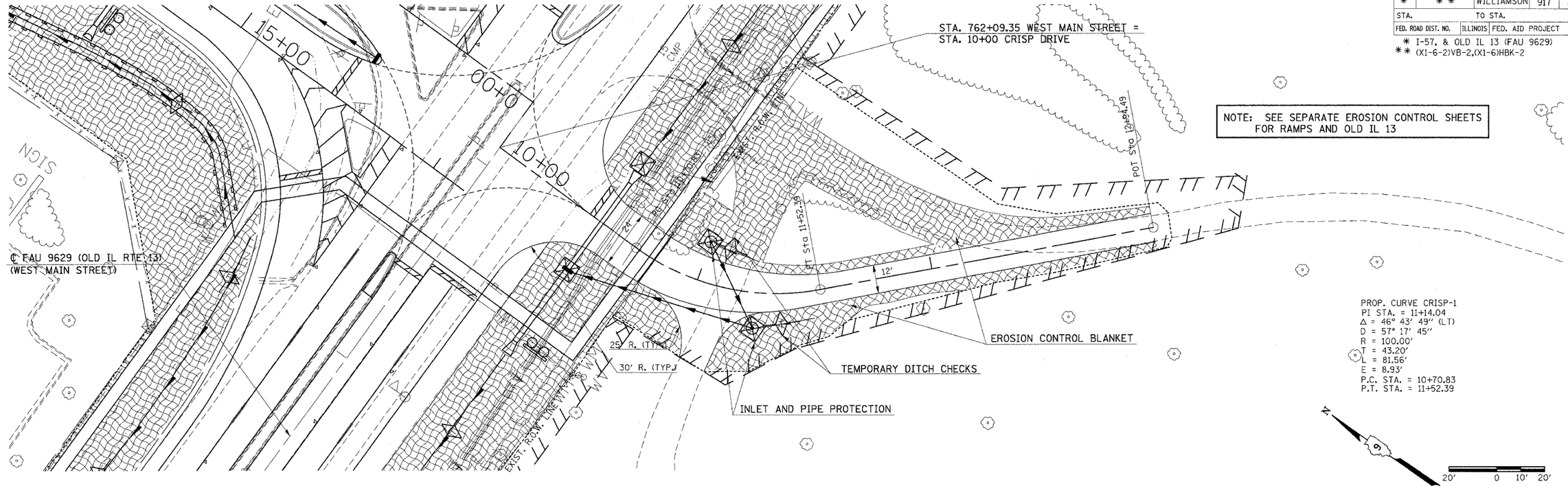
456 454 452 450 448 446 444 442

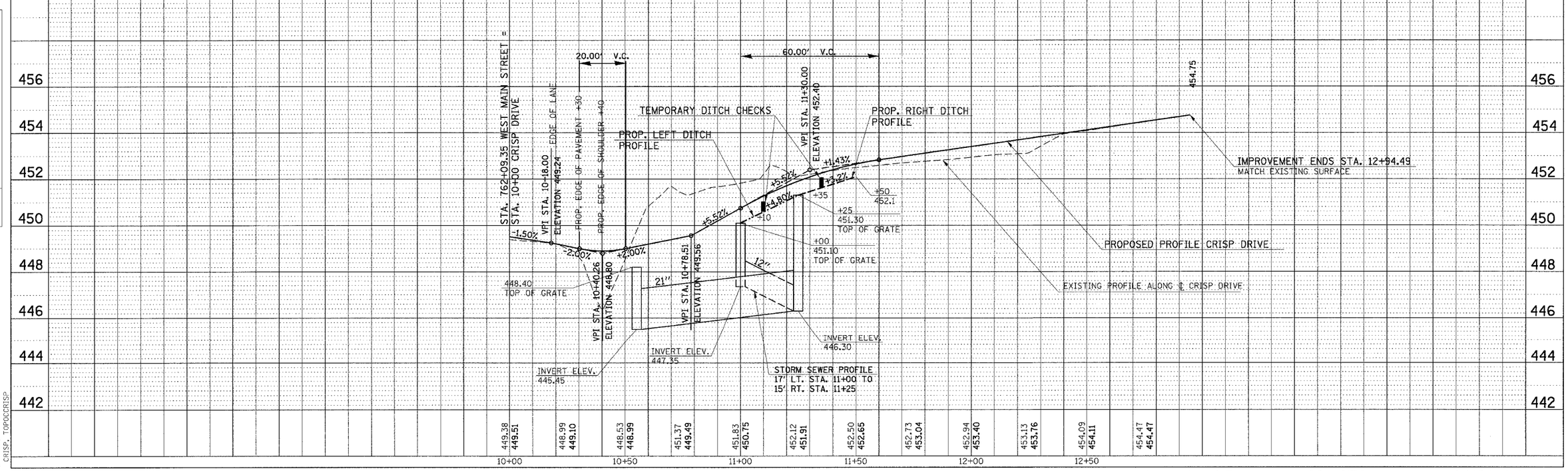
PLAN – PROFILE STA. 10+00 TO STA. 12+94.49 CRISP DRIVE

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	718
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2





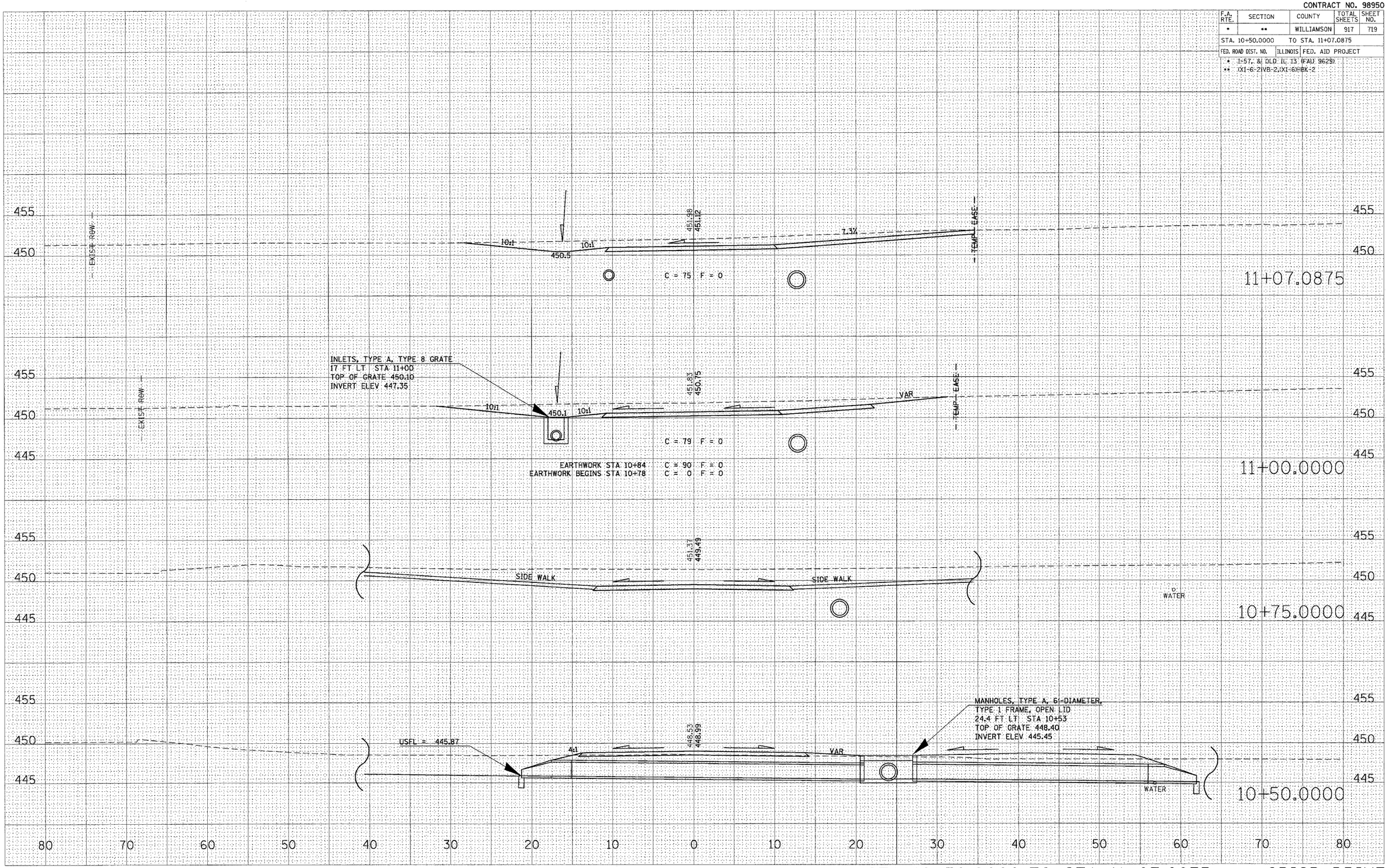
EROSION CONTROL STA. 10+00 TO STA. 12+94.49 CRISP DRIVE

PLOT DATE = 12/6/2006
FILE NAME = c:\projects\d902802\xlal13\xlal13x2.dgn
PLOT SCALE = 20.000 ' / IN.
USER NAME = headon
CRISP_TOPOCRISP

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	WILLIAMSON	917	719
STA. 10+50.0000	TO STA. 11+07.0875			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• I-57, & OLD IL. 13 (FAU 9629)
•• (X1-6-2)VB-2,(X1-6)HBK-2



STA 10+50.0000 TO STA 11+07.0875 CRISP DRIVE

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	

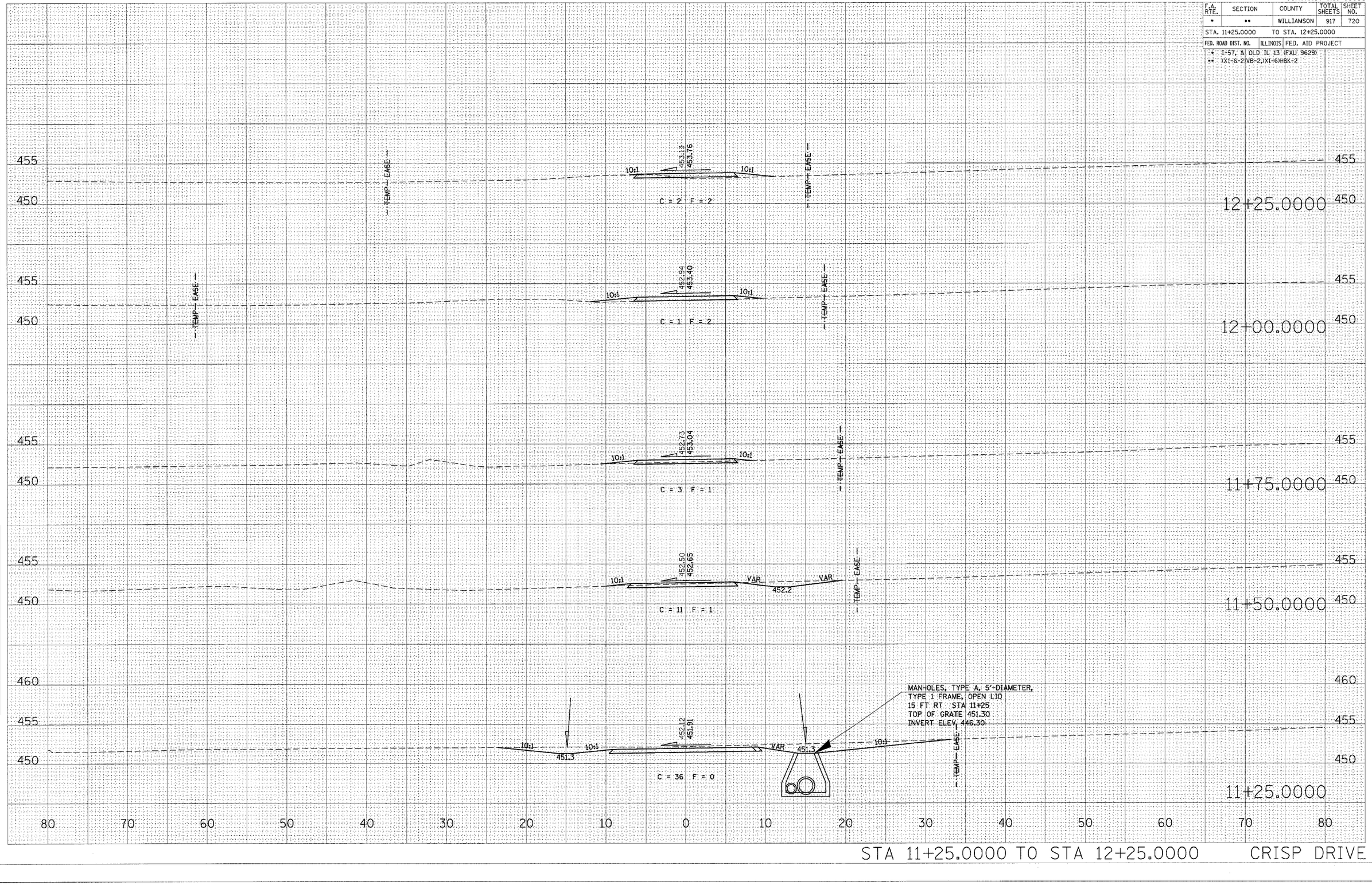
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	

PLOT DATE = 11/17/2006
FILE NAME = c:\projects\pr032802\old13\xsroadway.dgn
PLOT SCALE = 5.8269 '/ IN.
USER NAME = leftwichdl

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	720
STA. 11+25.0000		TO STA. 12+25.0000		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (XI-6-2)VB-2,(XI-6)HBK-2



STA 11+25.0000 TO STA 12+25.0000 CRISP DRIVE

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NO.		

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

PLOT DATE = 11/17/2006
FILE NAME = c:\projects\n982002\sheets\xsec.dgn
PLOT SCALE = 5.0000 '/ IN.
USER NAME = leftwichd

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	721

STA. 12+50.0000 TO STA. 12+75.0000

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

		BY	DATE
FINAL SURVEY	SURVEYED		
	LAID OUT		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

		BY	DATE
ORIGINAL SURVEY	SURVEYED		
	LAID OUT		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

PLOT DATE = 11/17/2006
FILE NAME = c:\pw_data\d0902802\vol3\xcrdpw030.dgn
PLOT SCALE = 5.0000 ' / IN.
USER NAME = jeffwood

IMPROVEMENT ENDS
MATCH EXIST SURFACE
STA 12+94.49
C = 0 F = 0

454.47
454.47

10:1 50:1

C = 6 F = 1

TEMP. EASE

TEMP. EASE

454.09
454.11

10:1 10:1

C = 5 F = 2

TEMP. EASE

TEMP. EASE

460
455
450
455
450

12+75.0000

12+50.0000

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

STA 12+50.0000 TO STA 12+75.0000 CRISP DRIVE

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	722
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
CADD FILE NAME
DRAWN
CHECKED
QUANTITIES CHECKED
R.O.W. CHECKED
DATE
BY

STA. 0+00.00 NEW CITY STREET =
STA. 772+35.27 WEST MAIN STREET

2 CENTER CURVE
60'-250'-10'

STA. 0+80 AH TO BE CONSTRUCTED BY OTHERS

AC

CONSTRUCTION LIMITS

12' RAMP

65' R.

70' R.

21' R.

48" RCP

12'
12'
7.5'
4.5'
6'
12'

END GRADING
STA. 1+02

END CONSTRUCTION
STA. 0+80

CONCRETE MEDIAN SPECIAL
STA. 0+52.96TO STA. 0+80
SEE DETAIL SHOWN ON TYP. SHEET

2 CENTER CURVE
60'-250'-10'

00+0
0+00
20+00
772+00
5+00

NOTES:

1. CONTRACTOR SHALL SITE GRADE AT THE END OF THE PROPOSED PAVEMENT TO DRAIN AS DIRECTED BY THE ENGINEER.
2. FOR EDGE OF PAVEMENT ELEVATIONS, SEE GEOMETRICS SHEET.

N S

20' 0 10' 20'

BM 15
CUT SQUARE IN THE NORTH SIDE OF A LIGHT POLE BASE, LOCATED ON THE SOUTH SIDE OF OLD 13, 350' EAST OF I-57, 58.7' RT. OF THE ℄ OF OLD 13 (MAIN ST.) @ STA. 771+71. ELEV. 449.592

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
DRAWN
CHECKED
QUANTITIES CHECKED
R.O.W. NOTED
STRUCTURE NOTATIONS CHKD
DATE
BY

454
452
450
448
446
444
442
440

PROP. E.O.P. OLD IL 13

END PROP. PAVEMENT AND SUB-BASE
STA. 0+80

EXIST. GROUNDLINE

END GRADING
STA. 1+02

-1.10%

3:1

+85
447.09

448.95 E.O.P. 449.07
449.47 448.85
450.26 448.52
450.20
450.20

0+00 +30 +50 +80 1+00 +20 2+00 3+00 4+00 5+00

PLOT DATE = 11/17/2026
FILE NAME = c:\projects\902822\old13\old13p2.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = hasdon

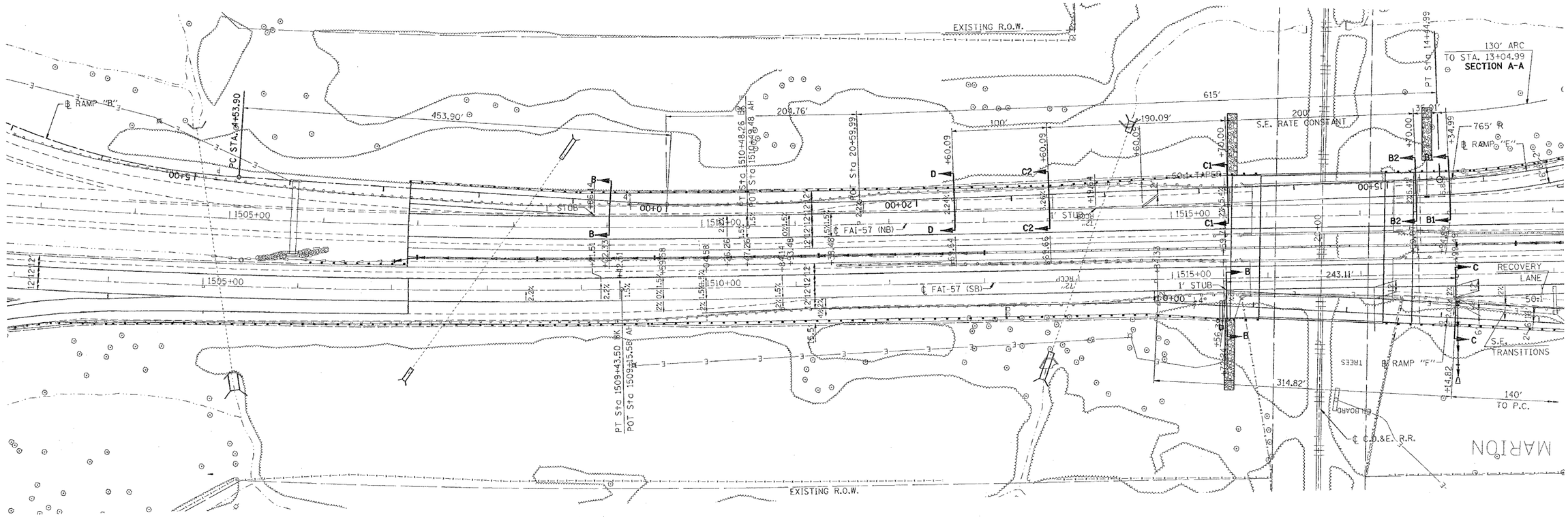
PLAN – PROFILE STA. 0+00.00 TO STA. 5+25.00 NEW CITY STREET

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	723
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*I-57, & OLD IL 13 (FAU 9629)
**(X1-6-2)VB-2,(X1-6)HBK-2

PROP. CURVE RAMP_E-3
PI STA. = 13+75.19
Δ = 10° 29' 08" (RT)
D = 7° 29' 23"
R = 765.00'
T = 70.20'
L = 140.00'
E = 3.21'
e = 8%
P.C. STA = 13+04.99
P.T. STA = 14+44.99



NOTE:
EXISTING RAMP PAVEMENT AND SHOULDER SLOPES TRANSITION TO PROPOSED SLOPES FROM RT. STA. 1507+18 TO STA. 1508+25 (SBL).

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-57
GEOMETRICS
STA. 1503+00 TO STA. 1519+00

SCALE: VERT. 50
HORIZ.
DATE

DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/24/2006
FILE NAME = d:\projects\d8282802\old13\old13e8dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = headon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	724
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*I-57, & OLD IL 13 (FAU 9629)
**(X1-6-2)VB-2,(X1-6)HBK-2

CURVE DATA RAMP E-1
PI STA. = 5+92.93
Δ = 58° 16' 56" (LT)
D = 19° 05' 55"
R = 300.00'
T = 167.26'
L = 305.16'
E = 43.48'
e = 8%
T.R. = 35'
S.E. RUN = 195
P.C. STA. = 4+25.67
P.T. STA. = 7+30.83
ATTAIN S.E.:
STA. 0+34.00 (-0.5%) TO
STA. 2+00.00 (-1.5%) TO
STA. 2+59.67 (-1.5%) TO
STA. 4+89.67 (8%)
REMOVE S.E.:
STA. 6+38.00 (8%) TO
STA. 8+68.00 (-1.5%)

CURVE DATA RAMP E-2
PI STA. = 11+33.63
Δ = 44° 37' 57" (RT)
D = 12° 19' 18"
R = 465.00'
T = 190.86'
L = 362.23'
E = 37.65'
e = 8%
T.R. = 40'
S.E. RUN = 220'
P.C. STA. = 9+42.77
P.T. STA. = 13+04.99
ATTAIN S.E.:
STA. 8+68.00 (-1.5%) TO
STA. 10+48.00 (-8%)

CURVE DATA RAMP E-3
PI STA. = 13+75.19
Δ = 10° 29' 08" (RT)
D = 7° 29' 23"
R = 765.00'
T = 70.20'
L = 140.00'
E = 3.21'
e = 8%
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 13+04.99
P.T. STA. = 14+44.99
REMOVE S.E.:
(THROUGH ENTRANCE TERMINAL W/AUX. LANE)
STA. 13+04.99 (-8%) TO STA. 14+34.99 (-5.81%)
STA. 14+34.99 (-5.81%) TO STA. 14+70.00 (-5.4%)
STA. 14+70.00 (-5.4%) TO STA. 16+70.00 (-5.4%)
STA. 16+70.00 (-5.4%) TO STA. 18+60.09 (-3.26%)
STA. 18+60.09 (-3.26%) TO STA. 19+60.09 (-2.24%)

CURVE DATA RAMP EE-2
PI STA. = 28+58.53
Δ = 166° 49' 31" (RT)
D = 26° 09' 45"
R = 219.00'
T = 1,896.41'
L = 637.65'
E = 1,690.01'
e = 8%
T.R. = 35'
S.E. RUN = 185'
P.C. STA. = 9+62.12
P.T. STA. = 15+99.77
REMOVE S.E.:
STA. 15+37.77 (-8%) TO
STA. 16+87.77 (-1.5%) TO
STA. 17+50.00 (-1.5%) TO
STA. 19+91.43 (0.5%)

CURVE DATA RAMP EE-1
PI STA. = 8+81.41
Δ = 12° 08' 09" (RT)
D = 7° 29' 23"
R = 765.00'
T = 81.32'
L = 162.03'
E = 4.31'
e = 8%
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 8+00.09
P.T. STA. = 9+62.12
ATTAIN S.E.:
(THROUGH STANDARD EXIT TERMINAL)
STA. 6+60.09 (-2%) TO
STA. 8+70.09 (-8%)

℄ WEST MAIN ST.
(OLD IL 13)
STA. 0+00 RAMP "E"=
STA. 772+58.77 WEST MAIN ST.
PC STA 773+00.48
STA. 0+00 PROPOSED CITY ST=
STA. 772+35.27 WEST MAIN ST.
STA. 20+25.44 RAMP "EE"=
STA. 772+11.77 WEST MAIN ST.
PT STA 7+30.83
PC STA 9+42.77
PCC STA 13+04.99
PC STA 4+25.67
PT STA 15+99.77
PC STA 8+00.09
PC STA 8+60.09
PT STA 8+70.09
POT STA 765+00.00
℄ RAMP "E"
℄ RAMP "EE"
℄ FAI-57 (NB)
℄ FAI-57 (SB)
℄ NDIS
RAMP "F"
RAMP "FF"
EXISTING R.O.W.
MARION
135' RIGHT TURN LANE TAPER
100' RIGHT TURN LANE UNIFORM STORAGE
STANDARD EXIT RAMP TERMINAL
800.09'
300.43'
STA. 0+00 RAMP "EE"=
STA. 1534+85.86 FAI-57,
13.00' LT.
1' STUB
OVERHEAD SIGN
PAVED DITCH
300 R
219' R
465' R.
765' R
150
225
140
70
360'
N
50' 0 25' 50'

* EXISTING BITUMINOUS SHOULDERS
** EXISTING P.C.C. + BITUM. OVERLAY PAVEMENT

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-57, RAMPS "E" AND "EE" GEOMETRICS

STA. 1519+00 TO STA. 1535+00

SCALE: VERT. 50
HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/24/2006
FILE NAME = c:\projects\d9820802\old13\old13e5dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hendon

CONTRACT NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	725
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*I-57, & OLD IL 13 (FAU 9629)
**(X1-6-2)VB-2,(X1-6)HBK-2

℄ RAMP "E"
℄ RAMP "EE"
℄ WEST MAIN STREET
EXISTING ROW
℄ FAI-57 (NB)
℄ FAI-57 (SB)
1' STUB
RECOVERY LANE
140 TO SECTION C-C
70'
PC STA 4+54.82
℄ RAMP "F"
EXISTING ROW
765' R.
8+44.00
PT STA 9+58.15
10+00
10+54.00
10+89.00
℄ RAMP "FF"
178' R.
PC STA 2+77.79
PC STA 7+89.27
PT STA 9+51.61
POT STA 765+00.00
113.18'
93.55'
236.00'
615.00'
243.65'
52.71'
50:1 TAPER
AUXILIARY LANE
POT STA 15+66.60
225' R.
100' RIGHT TURN LANE TAPER
135' RIGHT TURN LANE UNIFORM STORAGE
PT STA 13+39.67
EXISTING ROW
STA 0+00.00 RAMP "FF" = STA 762+32.85 WEST MAIN ST
STA 0+00.00 CRISP DRIVE = STA 762+09.35 WEST MAIN ST
STA 16+17.46 RAMP "F" = STA 761+85.85 WEST MAIN ST
REMOVE S.E.
90°
30°
N
S
50' 0 25' 50'

CURVE DATA RAMP F-1
PI STA. = 7+15.97
Δ = 37° 41' 51" (RT)
D = 7° 29' 23"
R = 765.00'
T = 261.15'
L = 503.33'
E = 43.35'
e = 8%
T.R. = 0'
S.E. RUN = 210'
P.C. STA. = 4+54.82
P.T. STA. = 9+58.15
ATTAIN S.E.:
(THROUGH EXIT TERMINAL W/AUX. LANE)
STA. 3+14.82 (-2%) TO
STA. 5+24.82 (-8%)
REMOVE S.E.:
STA. 8+44.00 (-8%) TO
STA. 10+54.00 (-1.5%)

CURVE DATA RAMP FF-1
PI STA. = 15+97.58
Δ = 164° 38' 16" (RT)
D = 32° 11' 19"
R = 178.00'
T = 1,319.79'
L = 511.48'
E = 1,153.74'
e = 8%
T.R. = 0'
S.E. RUN = 150'
P.C. STA. = 2+77.79
P.T. STA. = 7+89.27
ATTAIN S.E.:
STA. 0+34.00 (1.0%) TO
STA. 1+88.79 (-1.5%) TO
STA. 3+37.79 (-8%)

CURVE DATA RAMP F-2
PI STA. = 12+65.09
Δ = 39° 38' 24" (LT)
D = 25° 27' 53"
R = 225.00'
T = 81.09'
L = 155.67'
E = 14.17'
e = 8%
T.R. = 35'
S.E. RUN = 185'
P.C. STA. = 11+84.00
P.T. STA. = 13+39.67
ATTAIN S.E.:
STA. 10+54.00 (-1.5%) TO
STA. 12+74.00 (8%)
REMOVE S.E.:
STA. 12+74.00 (8%) TO
STA. 14+94.00 (-1.5%) TO
STA. 15+83.45 (-1.0%)

CURVE DATA RAMP FF-2
PI STA. = 8+70.75
Δ = 12° 09' 32" (RT)
D = 7° 29' 23"
R = 765.00'
T = 81.48'
L = 162.34'
E = 4.33'
e = 8%
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 7+89.27
P.T. STA. = 9+51.61
REMOVE S.E.:
(THROUGH ENTRANCE TERMINAL W/AUX. LANE)
STA. 7+89.27 (-8%) TO STA. 9+02.45 (-5.81%)
STA. 9+02.45 (-5.81%) TO STA. 9+96.00 (-4.00%)
STA. 9+96.00 (-4.00%) TO STA. 12+32.00 (-4.00%)
STA. 12+32.00 (-4.00%) TO STA. 12+70.25 (-3.26%)
STA. 12+70.25 (-3.26%) TO STA. 13+22.96 (-2.24%)

RAMP F RIGHT TURN LANE TAPER

STA	OFFSET RT
13+50.46	12
13+40.46	10.8
13+30.46	9.6
13+20.46	8.4
13+10.46	7.2
13+00.46	6
12+90.46	4.8
12+80.46	3.6
12+70.46	2.4
12+60.46	1.2
12+50.46	0

* EXISTING BITUMINOUS SHOULDERS
** EXISTING P.C.C. + BITUM. OVERLAY PAVEMENT

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-57, RAMPS "F" AND "FF" GEOMETRICS

STA. 1519+00 TO STA. 1535+00

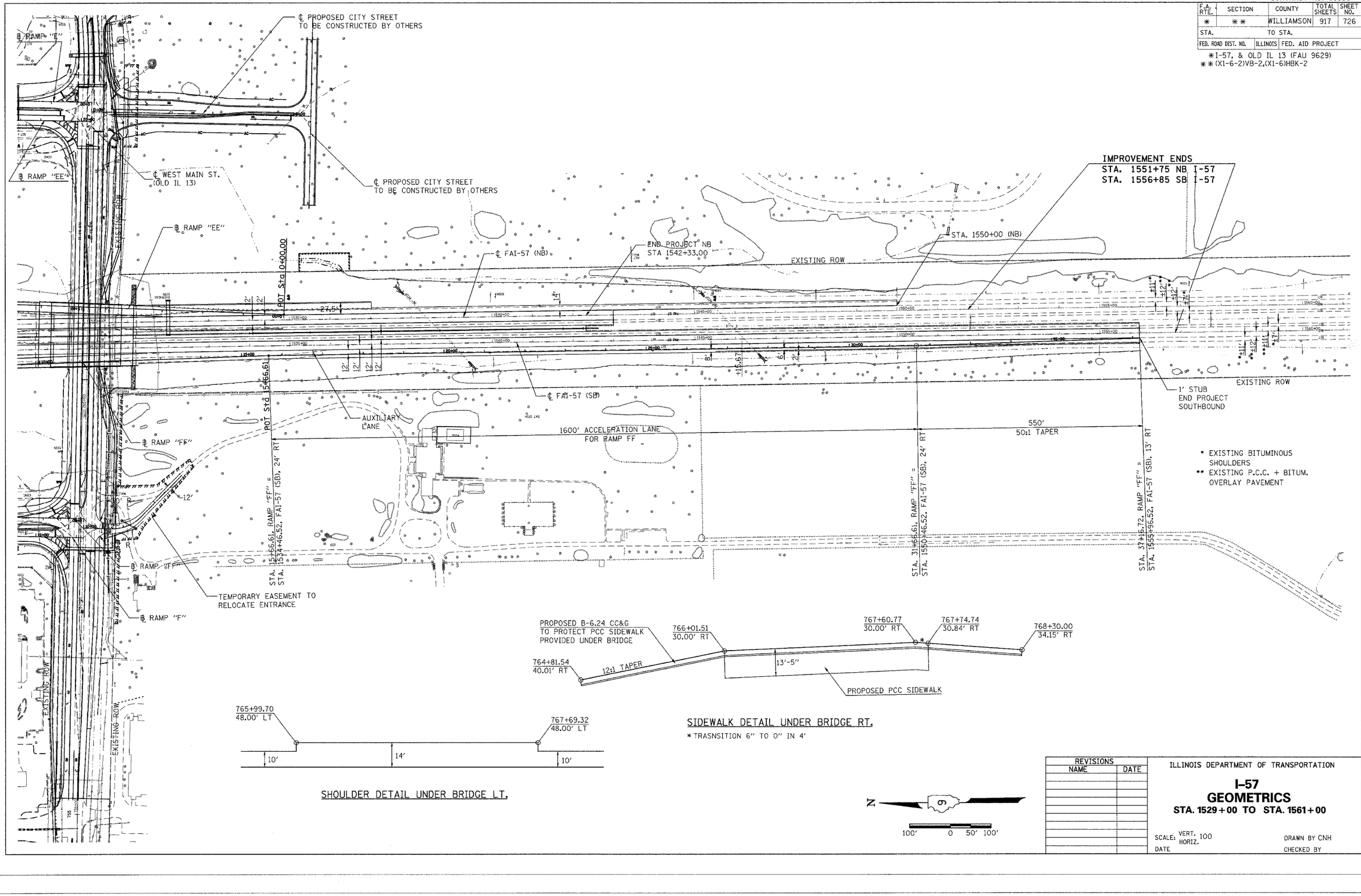
SCALE: VERT. 50 HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

PLOT DATE = 12/6/2006
FILE NAME = c:\projects\vb2828z\sht3\vb2828z_sht3x6.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = headon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	726
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*I-57, & OLD IL 13 (FAU 9629)
**(X1-6-2)VB-2,(X1-6)HBK-2



SIDEWALK DETAIL UNDER BRIDGE RT.

* TRASNSITION 6" TO 0" IN 4'

SHOULDER DETAIL UNDER BRIDGE LT.

* EXISTING BITUMINOUS SHOULDERS
** EXISTING P.C.C. + BITUM. OVERLAY PAVEMENT

N

100' 0 50' 100'

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-57 GEOMETRICS
STA. 1529+00 TO STA. 1561+00

SCALE: VERT. 100 HORIZ.
DATE

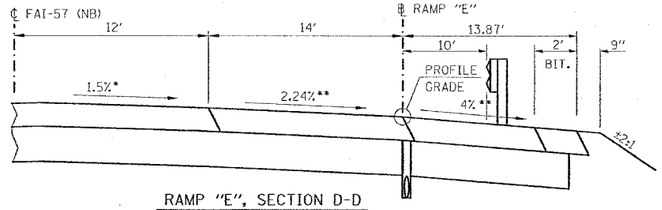
DRAWN BY CNH
CHECKED BY

PLOT DATE = 12/6/2006
FILE NAME = c:\projects\d902882\old13\old13x6.dgn
PLOT SCALE = 100.0000 ' / IN.
USER NAME = headen

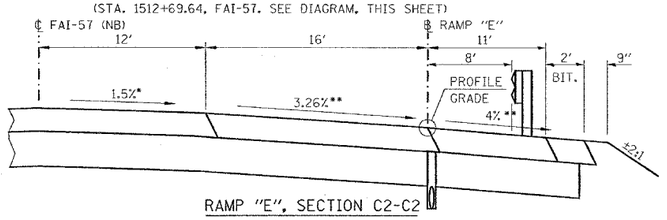
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	727
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

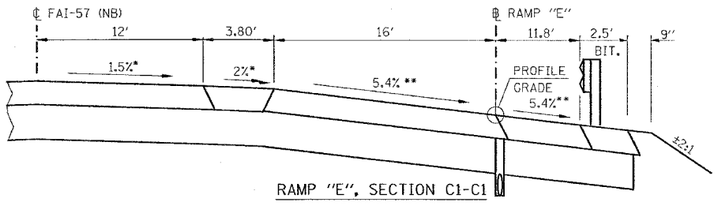
*I-57, & OLD IL 13 (FAU 9629)
**(X1-6-2)VB-2,(X1-6)HBK-2



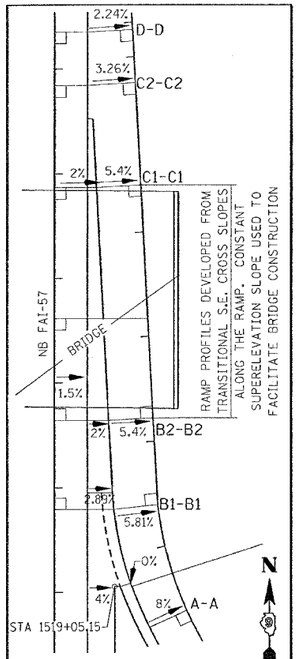
RAMP "E", SECTION D-D
STA. 19+60.09, RAMP "E"
(STA. 1512+69.64, FAI-57. SEE DIAGRAM. THIS SHEET)



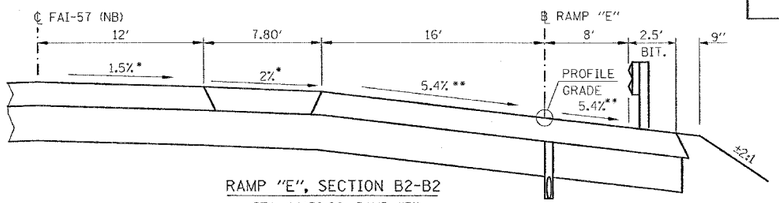
RAMP "E", SECTION C2-C2
STA. 18+60.09, RAMP "E"
(STA. 1513+69.66, FAI-57. SEE DIAGRAM, THIS SHEET)



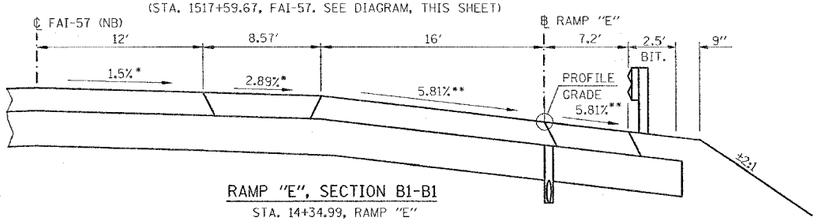
RAMP "E", SECTION C1-C1
STA. 16+70.00, RAMP "E"
(STA. 1515+59.71, FAI-57. SEE DIAGRAM, THIS SHEET)



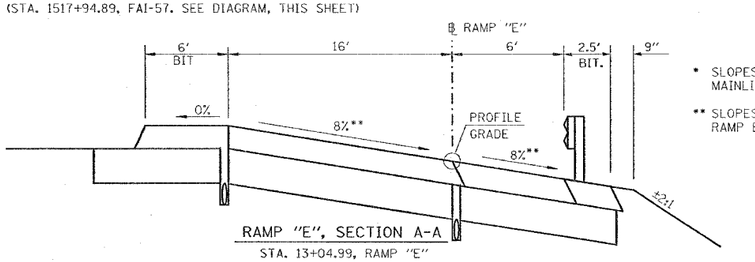
RAMP "E" DIAGRAM



RAMP "E", SECTION B2-B2
STA. 14+70.00, RAMP "E"
(STA. 1517+59.67, FAI-57. SEE DIAGRAM, THIS SHEET)



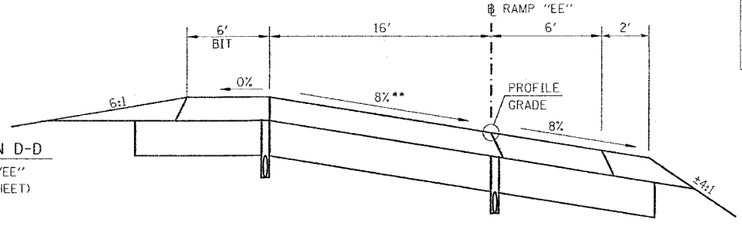
RAMP "E", SECTION B1-B1
STA. 14+34.99, RAMP "E"
(STA. 1517+94.89, FAI-57. SEE DIAGRAM, THIS SHEET)



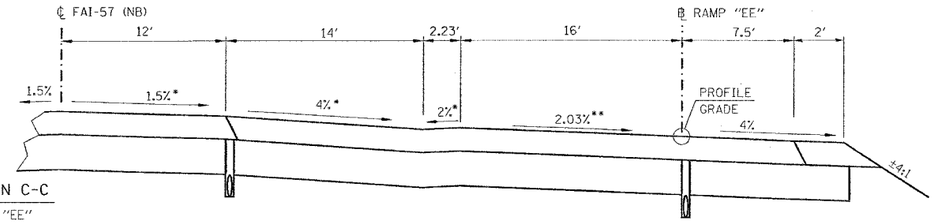
RAMP "E", SECTION A-A
STA. 13+04.99, RAMP "E"
(SEE DIAGRAM THIS SHEET)

* SLOPES SHOWN ⊥ TO MAINLINE

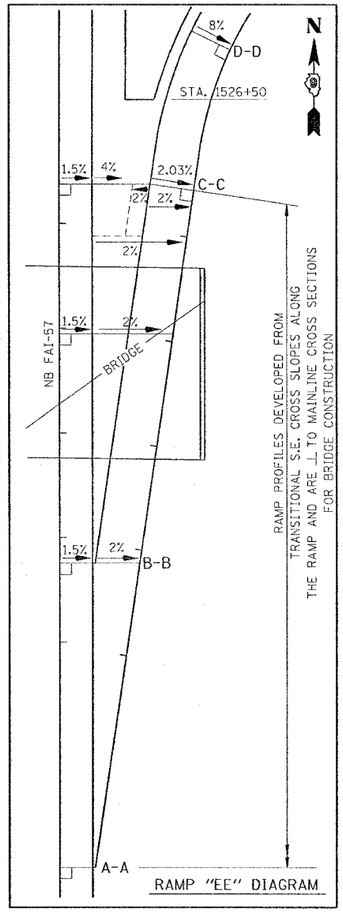
** SLOPES SHOWN ⊥ TO RAMP ℄



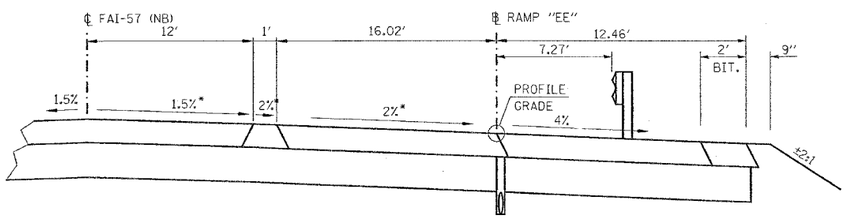
RAMP "EE", SECTION D-D
STA. 8+70.09, RAMP "EE"
(SEE DIAGRAM, THIS SHEET)



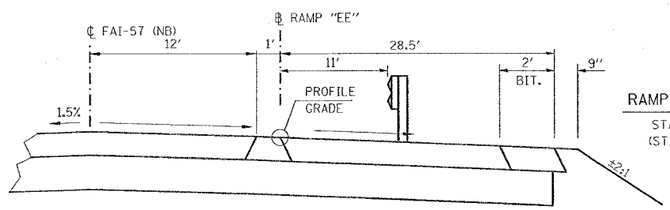
RAMP "EE", SECTION C-C
STA. 6+60.09, RAMP "EE"
(STA. 1528+25.86, FAI-57.
SEE DIAGRAM, THIS SHEET)



RAMP "EE" DIAGRAM



RAMP "EE", SECTION B-B
STA. 3+00.43, RAMP "EE"
(STA. 1531+85.86, FAI-57
SEE DIAGRAM, THIS SHEET)



RAMP "EE", SECTION A-A
STA. 0+00.0, RAMP "EE"
(STA. 1534+85.86, FAI-57)

* SLOPES SHOWN ⊥ TO MAINLINE

** SLOPES SHOWN ⊥ TO RAMP ℄

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GEOMETRICS

SCALE: VERT. NONE HORIZ.
DATE

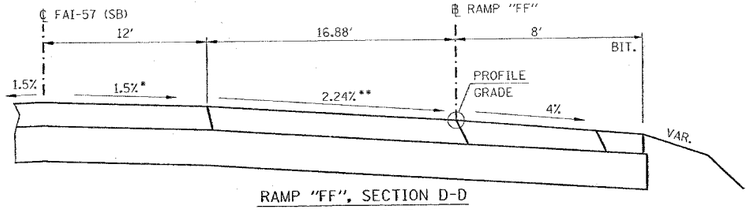
DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/17/2006
FILE NAME = a:\projects\s902882\sldl3\sldl3s6.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = Haseon

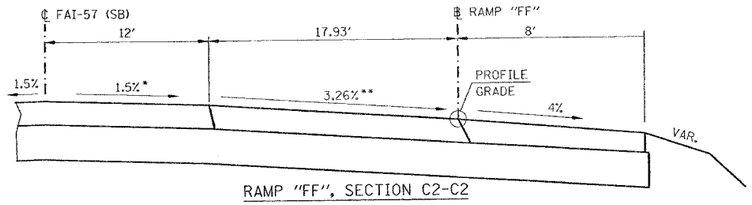
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	728
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

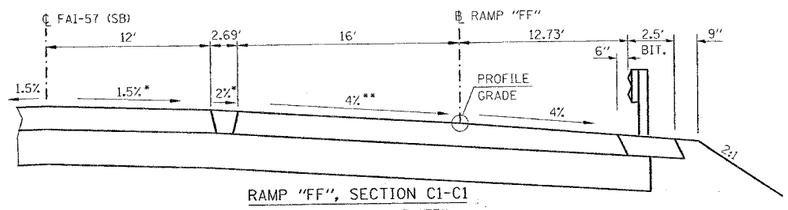
*I-57, & OLD IL 13 (FAU 9629)
**(X1-6-2)VB-2,(X1-6)HBK-2



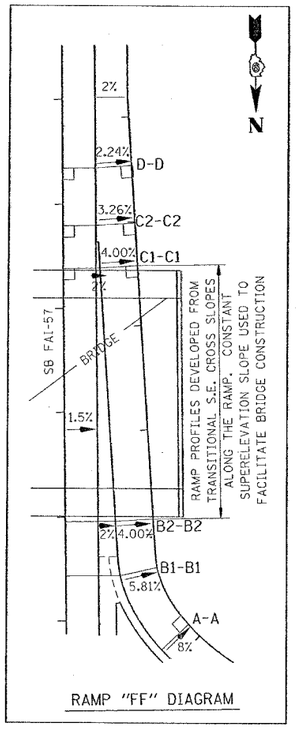
RAMP "FF", SECTION D-D
STA. 13+22.96, RAMP "FF"
(STA. 1532+02.58, FAI-57 SEE DIAGRAM, THIS SHEET)



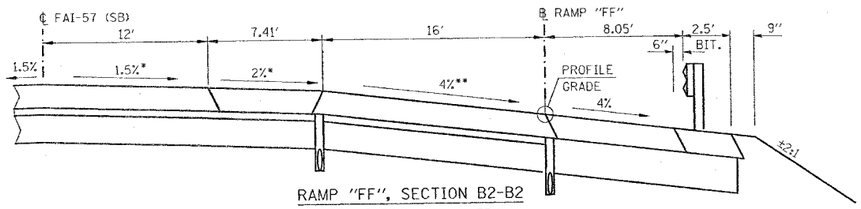
RAMP "FF", SECTION C2-C2
STA. 12+70.25, RAMP "FF"
(STA. 1531+49.86, FAI-57 SEE DIAGRAM, THIS SHEET)



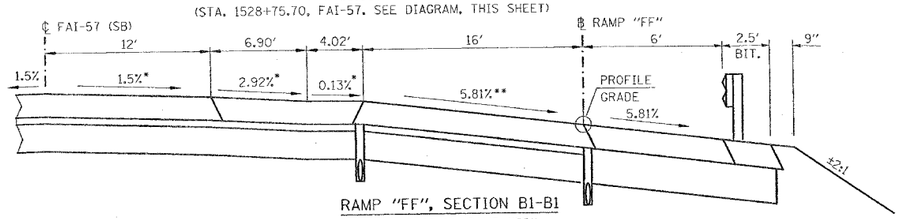
RAMP "FF", SECTION C1-C1
STA. 12+32.00, RAMP "FF"
(STA. 1531+11.66, FAI-57 SEE DIAGRAM, THIS SHEET)



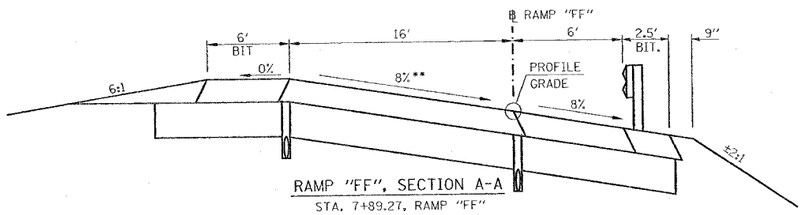
RAMP "FF" DIAGRAM



RAMP "FF", SECTION B2-B2
STA. 9+96.00, RAMP "FF"
(STA. 1528+75.70, FAI-57, SEE DIAGRAM, THIS SHEET)



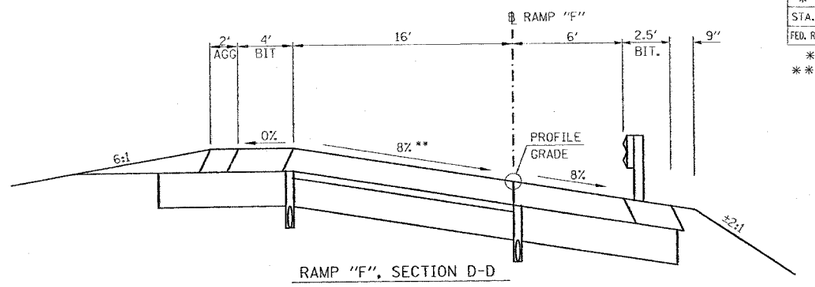
RAMP "FF", SECTION B1-B1
STA. 9+02.45, RAMP "FF"
(STA. 1527+81.21, FAI-57. SEE DIAGRAM, THIS SHEET)



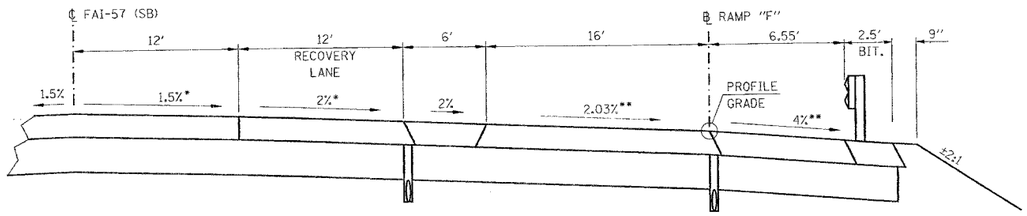
RAMP "FF", SECTION A-A
STA. 7+89.27, RAMP "FF"

* SLOPES SHOWN ⊥ TO MAINLINE

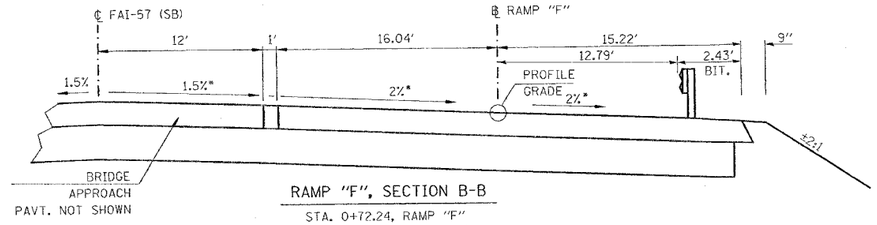
** SLOPES SHOWN ⊥ TO RAMP ℄



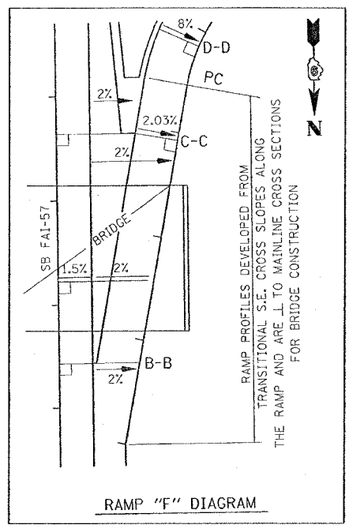
RAMP "F", SECTION D-D
STA. 5+24.82, RAMP "F"



RAMP "F", SECTION C-C (AHEAD)
STA. 3+14.82, RAMP "F"
(STA. 1517+99.49, FAI-57.
SEE DIAGRAM, THIS SHEET)



RAMP "F", SECTION B-B
STA. 0+72.24, RAMP "F"
(STA. 1515+56.39, FAI-57
SEE DIAGRAM, THIS SHEET)



RAMP "F" DIAGRAM

* SLOPES SHOWN ⊥ TO MAINLINE

** SLOPES SHOWN ⊥ TO RAMP ℄

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GEOMETRICS

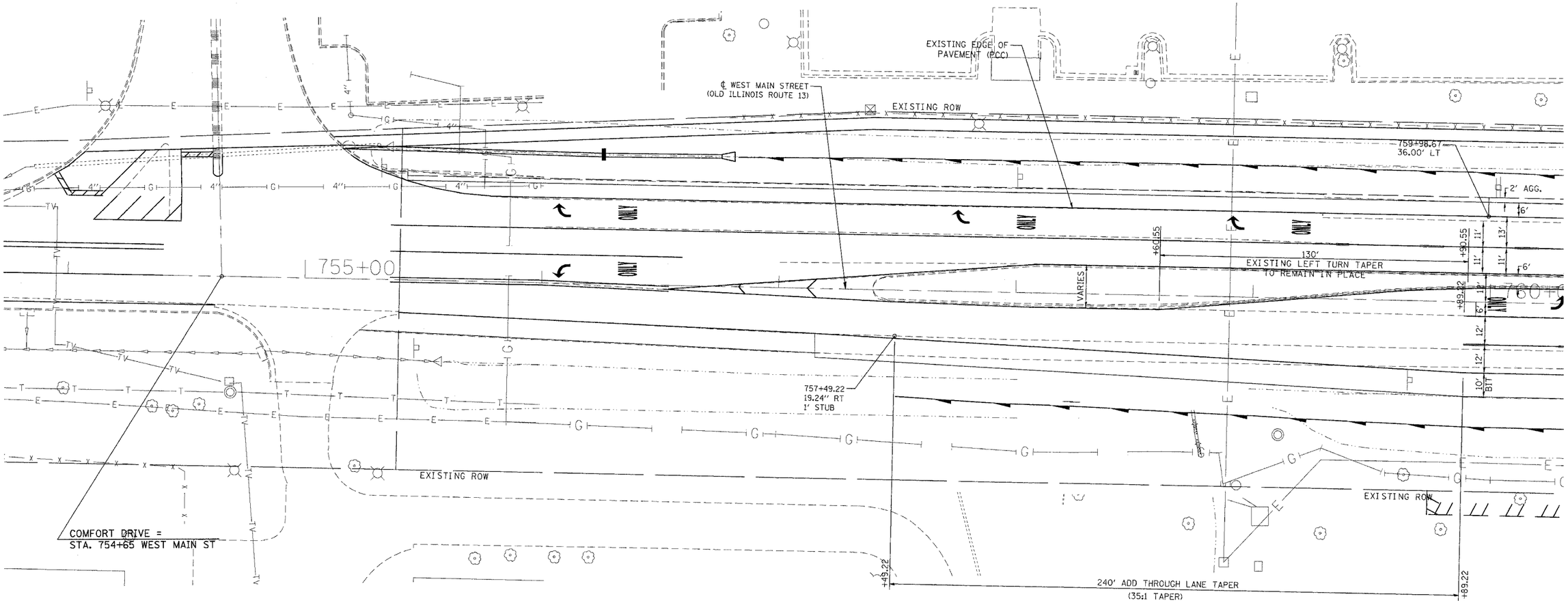
SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/17/2006
FILE NAME = c:\projects\d0202802\valid3\valid3s6.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hendon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	729
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*I-57, & OLD IL 13 (FAU 9629)
**(X1-6-2)VB-2,(X1-6)HBK-2



N

9

20' 0 10' 20'

PLOT DATE = 12/5/2006
PLT FILE = c:\projects\d9828082\old13\old13pe6.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = headon

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GEOMETRICS
OLD IL 13
STA. 754+00 TO STA. 760+00

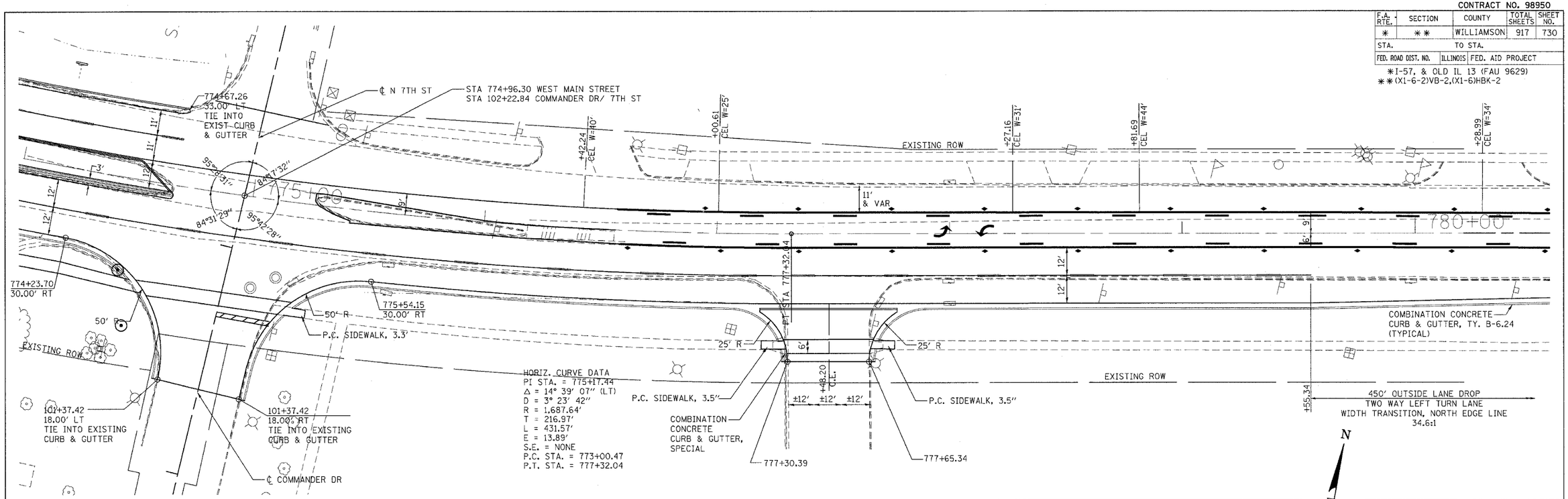
SCALE: VERT. 20
HORIZ.
DATE

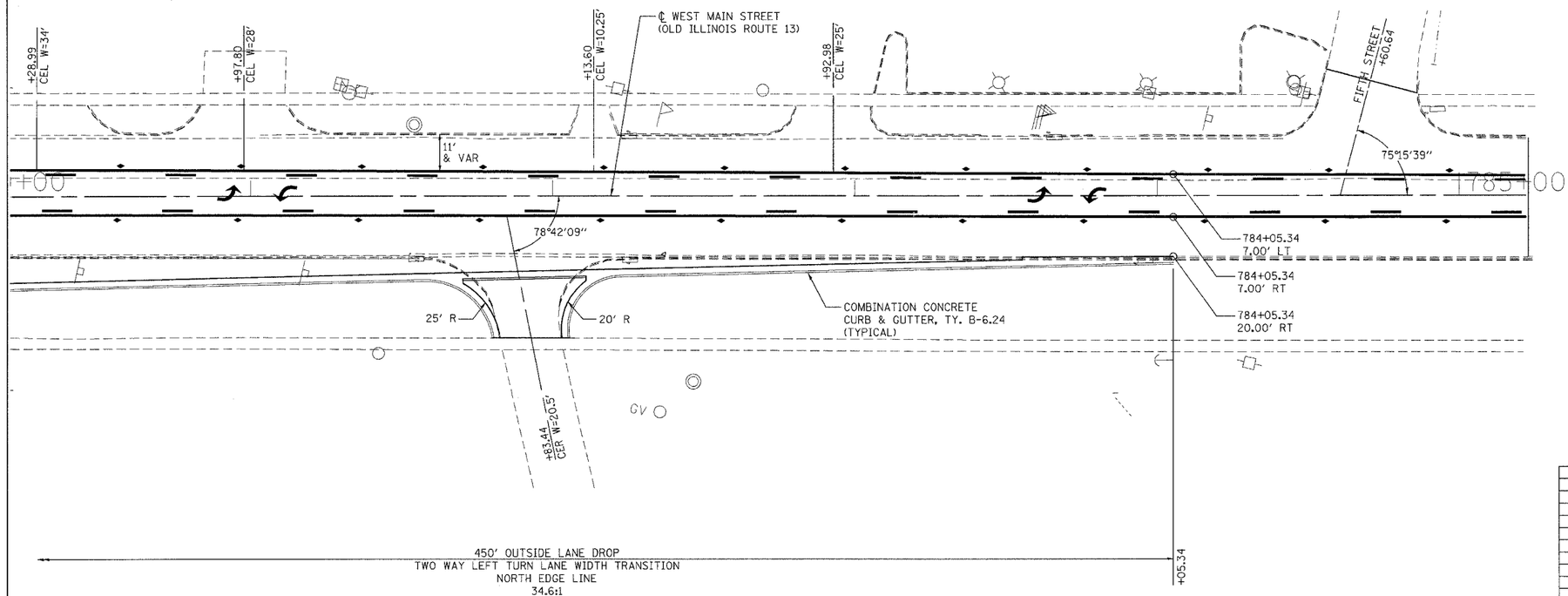
DRAWN BY CNH
CHECKED BY

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	730
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*I-57, & OLD IL 13 (FAU 9629)
**(X1-6-2)VB-2,(X1-6)HBK-2





REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GEOMETRICS
OLD IL 13
STA. 774+00 TO STA. 785+00

SCALE: VERT.
HORIZ. 20
DATE

DRAWN BY CNH
CHECKED BY

PLOT DATE = 12/6/2006
FILE NAME = c:\projects\d9820802\old13\old13s6.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = hession

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	731
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*I-57, & OLD IL 13 (FAU 9629)
**(X1-6-2)VB-2,(X1-6)HBK-2

50' 0 25' 50'

N

9

NW ISLAND DETAIL

NE ISLAND DETAIL

SECTION A-A
REFER TO STANDARD 606301-02

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GEOMETRICS
OLD IL 13
STA. 765+00 TO STA. 780+00

SCALE: VERT. 50 HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

PLOT DATE = 11/21/2006
PLOT NAME = c:\projects\d982802\vidt3\vidt3s66.dgn
PLOT SCALE = 50.0000 '/ IN.
USER NAME = headon

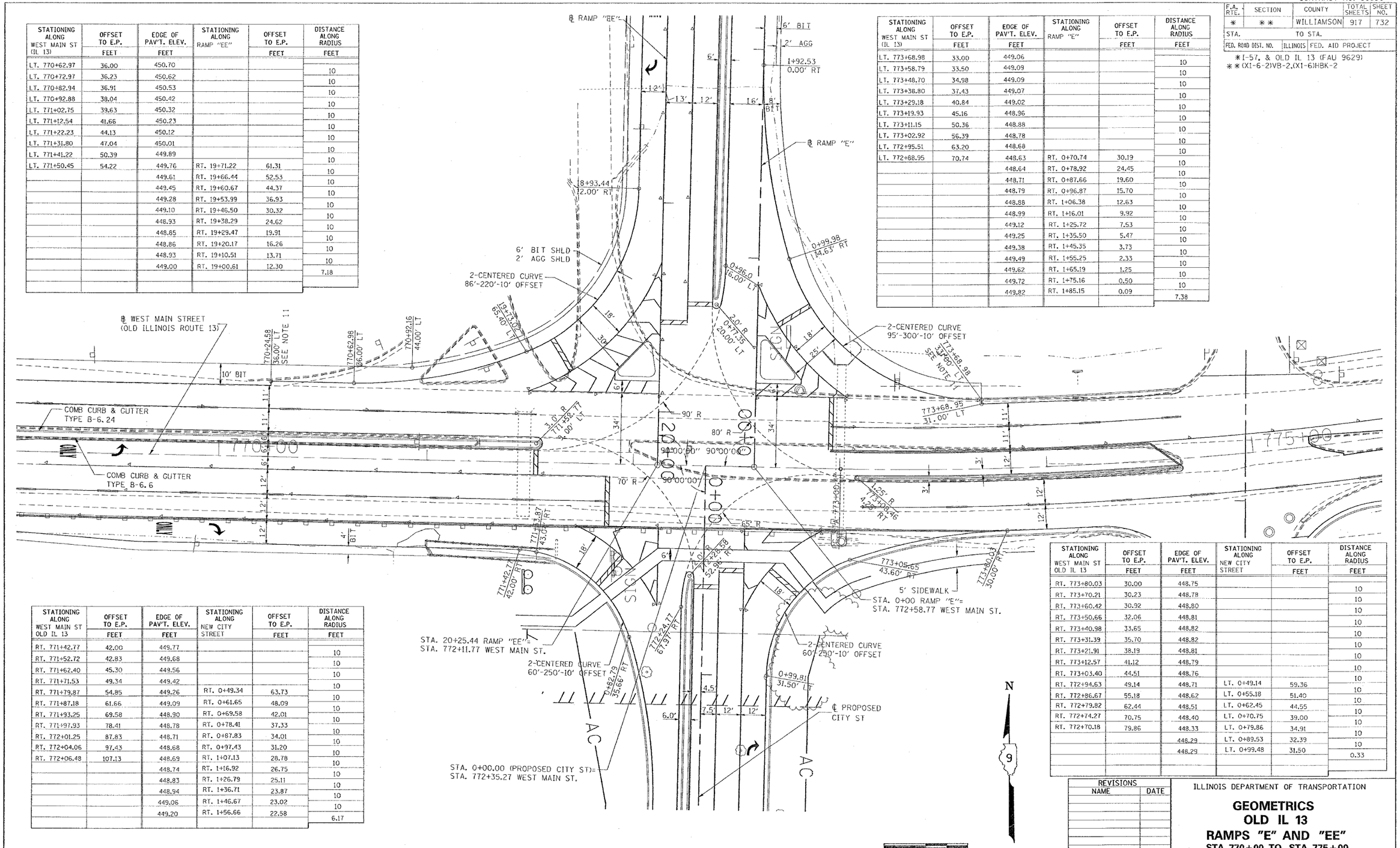
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	732
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*I-57, & OLD IL 13 (FAU 9629)
**(X1-6-2)VB-2,(X1-6)HBK-2

STATIONING ALONG WEST MAIN ST (IL 13)	OFFSET TO E.P.	EDGE OF PAV'T. ELEV.	STATIONING ALONG RAMP "EE"	OFFSET TO E.P.	DISTANCE ALONG RADIUS
	FEET	FEET		FEET	FEET
LT. 770+62.97	36.00	450.70			10
LT. 770+72.97	36.23	450.62			10
LT. 770+82.94	36.91	450.53			10
LT. 770+92.88	38.04	450.42			10
LT. 771+02.75	39.63	450.32			10
LT. 771+12.54	41.66	450.23			10
LT. 771+22.23	44.13	450.12			10
LT. 771+31.80	47.04	450.01			10
LT. 771+41.22	50.39	449.89			10
LT. 771+50.45	54.22	449.76	RT. 19+71.22	61.31	10
		449.61	RT. 19+66.44	52.53	10
		449.45	RT. 19+60.67	44.37	10
		449.28	RT. 19+53.99	36.93	10
		449.10	RT. 19+46.50	30.32	10
		448.93	RT. 19+38.29	24.62	10
		448.85	RT. 19+29.47	19.91	10
		448.86	RT. 19+20.17	16.26	10
		448.93	RT. 19+10.51	13.71	10
		449.00	RT. 19+00.61	12.30	7.18

STATIONING ALONG WEST MAIN ST (IL 13)	OFFSET TO E.P.	EDGE OF PAV'T. ELEV.	STATIONING ALONG RAMP "E"	OFFSET TO E.P.	DISTANCE ALONG RADIUS
	FEET	FEET		FEET	FEET
LT. 773+68.98	33.00	449.06			10
LT. 773+58.79	33.50	449.09			10
LT. 773+48.70	34.98	449.09			10
LT. 773+38.80	37.43	449.07			10
LT. 773+29.18	40.84	449.02			10
LT. 773+19.93	45.16	448.96			10
LT. 773+11.15	50.36	448.88			10
LT. 773+02.92	56.39	448.78			10
LT. 772+95.51	63.20	448.68			10
LT. 772+88.95	70.74	448.63	RT. 0+70.74	30.19	10
		448.64	RT. 0+78.92	24.45	10
		448.71	RT. 0+87.66	19.60	10
		448.79	RT. 0+96.87	15.70	10
		448.88	RT. 1+06.38	12.63	10
		448.99	RT. 1+16.01	9.92	10
		449.12	RT. 1+25.72	7.53	10
		449.25	RT. 1+35.50	5.47	10
		449.38	RT. 1+45.35	3.73	10
		449.49	RT. 1+55.25	2.33	10
		449.62	RT. 1+65.19	1.25	10
		449.72	RT. 1+75.16	0.50	10
		449.82	RT. 1+85.15	0.09	7.38



STATIONING ALONG WEST MAIN ST OLD IL 13	OFFSET TO E.P.	EDGE OF PAV'T. ELEV.	STATIONING ALONG NEW CITY STREET	OFFSET TO E.P.	DISTANCE ALONG RADIUS
	FEET	FEET		FEET	FEET
RT. 771+42.77	42.00	449.77			10
RT. 771+52.72	42.83	449.68			10
RT. 771+62.40	45.30	449.56			10
RT. 771+71.53	49.34	449.42			10
RT. 771+79.87	54.85	449.26	RT. 0+49.34	63.73	10
RT. 771+87.18	61.66	449.09	RT. 0+61.65	48.09	10
RT. 771+93.25	69.58	448.90	RT. 0+69.58	42.01	10
RT. 771+97.93	78.41	448.78	RT. 0+78.41	37.33	10
RT. 772+01.25	87.83	448.71	RT. 0+87.83	34.01	10
RT. 772+04.06	97.43	448.68	RT. 0+97.43	31.20	10
RT. 772+06.48	107.13	448.69	RT. 1+07.13	28.78	10
		448.74	RT. 1+16.92	26.75	10
		448.83	RT. 1+26.79	25.11	10
		448.94	RT. 1+36.71	23.87	10
		449.06	RT. 1+46.67	23.02	10
		449.20	RT. 1+56.66	22.58	6.17

STATIONING ALONG WEST MAIN ST OLD IL 13	OFFSET TO E.P.	EDGE OF PAV'T. ELEV.	STATIONING ALONG NEW CITY STREET	OFFSET TO E.P.	DISTANCE ALONG RADIUS
	FEET	FEET		FEET	FEET
RT. 773+80.03	30.00	448.75			10
RT. 773+70.21	30.23	448.78			10
RT. 773+60.42	30.92	448.80			10
RT. 773+50.66	32.06	448.81			10
RT. 773+40.98	33.65	448.82			10
RT. 773+31.39	35.70	448.82			10
RT. 773+21.91	38.19	448.81			10
RT. 773+12.57	41.12	448.79			10
RT. 773+03.40	44.51	448.76			10
RT. 772+94.63	49.14	448.71	LT. 0+49.14	59.36	10
RT. 772+86.67	55.18	448.62	LT. 0+55.18	51.40	10
RT. 772+79.82	62.44	448.51	LT. 0+62.45	44.55	10
RT. 772+74.27	70.75	448.40	LT. 0+70.75	39.00	10
RT. 772+70.18	79.86	448.33	LT. 0+79.86	34.91	10
		448.29	LT. 0+89.53	32.39	10
		448.29	LT. 0+99.48	31.50	0.33

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GEOMETRICS
OLD IL 13
RAMPS "E" AND "EE"
STA. 770+00 TO STA. 775+00

SCALE: VERT. HORIZ. 20
DATE
DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/17/2006
FILE NAME = c:\prg_jobs\d98298\2\old13\old13e6.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = hasdon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	733
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*I-57, & OLD IL 13 (FAU 9629)
**(X1-6-2)VB-2,(X1-6)HBK-2

N

20' 0 10' 20'

9

STATIONING ALONG WEST MAIN ST (IL 13)	OFFSET TO E.P.	EDGE OF PAV'T. ELEV.	STATIONING ALONG RAMP "F"	OFFSET TO E.P.	DISTANCE ALONG RADIUS
	FEET	FEET		FEET	FEET
LT. 760+37.06	36.00	447.42			
LT. 760+47.06	36.23	447.52			10
LT. 760+57.03	36.91	447.62			10
LT. 760+66.97	38.04	447.71			10
LT. 760+76.84	39.63	447.78			10
LT. 760+86.63	41.66	447.85			10
LT. 760+96.32	44.13	447.91			10
LT. 761+05.88	47.04	447.96			10
LT. 761+15.31	50.39	448.00	RT. 15+67.07	70.55	10
		448.04	RT. 15+63.24	61.31	10
		448.04	RT. 15+58.46	52.54	10
		448.09	RT. 15+52.69	44.37	10
		448.19	RT. 15+46.01	36.94	10
		448.32	RT. 15+38.52	30.32	10
		448.47	RT. 15+30.31	24.62	10
		448.63	RT. 15+21.49	19.91	10
		448.80	RT. 15+12.19	16.26	10
		448.99	RT. 15+02.53	13.71	10
		449.18	RT. 14+92.63	12.30	7.18

STATIONING ALONG WEST MAIN ST (IL 13)	OFFSET TO E.P.	EDGE OF PAV'T. ELEV.	STATIONING ALONG RAMP "FF"	OFFSET TO E.P.	DISTANCE ALONG RADIUS
	FEET	FEET		FEET	FEET
LT. 763+37.85	36.00	450.49			
LT. 763+27.87	36.53	450.39			10
LT. 763+18.00	38.10	450.28			10
LT. 763+08.35	40.70	450.15			10
LT. 762+99.02	44.30	450.00			10
LT. 762+90.13	48.86	449.83			10
LT. 762+81.76	54.33	449.65			10
LT. 762+74.02	60.64	449.46			10
LT. 762+66.98	67.74	449.26			10
LT. 762+60.72	75.54	449.07	RT. 0+75.54	27.87	10
		448.99	RT. 0+83.95	22.47	10
		449.02	RT. 0+92.88	17.98	10
		449.14	RT. 1+02.23	14.46	10
		449.29	RT. 1+11.80	11.55	10
		449.43	RT. 1+21.46	8.96	10
		449.59	RT. 1+31.20	6.70	10
		449.75	RT. 1+41.01	4.76	10
		449.94	RT. 1+50.88	3.15	10
		450.12	RT. 1+60.80	1.87	10
		450.32	RT. 1+70.75	0.92	10
		450.52	RT. 1+80.73	0.30	10
		450.74	RT. 1+90.73	0.02	3.52

COMB CURB & GUTTER TYPE B-6.24
2' AGG
6' BIT
2.5'
1+94.25 0.00' LT
℄ RAMP "F"
2' AGG
6' BIT
12'
16'
15'
16'
8' BIT
47'
15'
1' STUB 1+69.73 0.00' RT
℄ RAMP "FF"
SIGN
14+85.46 12.00' RT
1+01.69 14.63' LT
2-CENTERED CURVE 86'-220'-10' OFFSET
15+23.46 16.00' LT
0+96.00 16.00' LT
2-CENTERED CURVE 95'-300'-10' OFFSET
EXISTING ROW
761+20.45 52.42' LT
759+98.67 46.00' LT
760+87.06 36.00' LT
℄ WEST MAIN STREET (OLD ILLINOIS ROUTE 13)
763+37.85 34' & 36' LT
COMB CONC CURB & GUTTER TYPE B-6.24
POT STA. 765+00.00
18'
100' R
90' R
761+26.85 12.00' LT
+39.93
2' R
761+45.54 16.00' LT
90°00'00"
34'
90°00'00"
760+00
765+00
5' R
762+64.24 6.76' LT
763+01.85 6.00' RT
60' R
60' R
240' ADD THROUGH LANE TAPER 35:1 TAPER
156.29' LEFT TURN STORAGE
+89.22
+45.51
30' R
30' R
PER +09.35 W= 24'
762+51.75 30.00' RT
PE +85.26 TO BE RELOCATED
WALL
EXISTING ROW
STA 16+17.46 RAMP "F" = STA 761+85.85 WEST MAIN ST
STA. 10+00 CRISP DRIVE = STA. 762+09.35 WEST MAIN ST
STA 0+00.00 RAMP "FF" = STA 762+32.85 WEST MAIN ST

761+79.85 56.86' LT
CONC. MEDIAN SURFACE
COMB CONC. C&G TY B-6.06
2' R
2' R
COMB CONC. C&G TY B-6.24
3' R
COMB CONC. C&G TY B-6.24
761+67.77 44.00' LT
761+80.85 45.00' LT
NW ISLAND DETAIL

762+36.85 60.50' LT
2' R
CONC MEDIAN SURFACE
COMB CONC. C&G TY B-6.24
COMB CONC C&G TY B-6.06
2' R
3' R
762+37.85 45.00' LT
762+51.15 44.00' LT
COMB CONC C&G TY B-6.24
NE ISLAND DETAIL

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GEOMETRICS
OLD IL 13
RAMPS "F" AND "FF"
STA. 760+00 TO STA. 765+00

SCALE: VERT. 20 HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/17/2006
FILE NAME = c:\projects\482882\vol3\vol3p6.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = Headon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	* *	WILLIAMSON	917	734
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

EXIST. CURVE NBL102
PI STA. = 1496+40.64
Δ = 18° 56' 34" (LT)
D = 0° 40' 00"
R = 8,594.33'
T = 1,433.79'
L = 2,841.41'
E = 118.78'
e = ____
P.C. STA. = 1482+06.85
P.T. STA. = 1510+48.26

EXIST. CURVE SBL102
PI STA. = 1495+35.88
Δ = 18° 56' 34" (LT)
D = 0° 40' 00"
R = 8,594.33'
T = 1,433.79'
L = 2,841.41'
E = 118.78'
e = ____
P.C. STA. = 1481+02.09
P.T. STA. = 1509+43.50

RAMP "B"
SCRUB
I-57 NB
I-57 SB
PROJECT BEGINS
STA. 1506+90 NB I-57
IMPROVEMENT BEGINS
STA. 1500+00 SB I-57
EXISTING RAMP "C"
THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID YELLOW)
THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID WHITE)
PREFORMED PLASTIC PAVEMENT
MARKING TYPE 3 - LINE 4"
(WHITE SKIP-DASH)
THERMOPLASTIC PAVEMENT MARKING - LINE 12"
(SOLID WHITE) (TYP.)
THERMOPLASTIC PAVEMENT MARKING - LINE 8"
(SOLID WHITE)
PT Sta 1510+48.26 BK = PT Sta 1509+43.50 AH
POT Sta 1510+49.48 BK = POT Sta 1509+45.58 AH
30' (TYP.)
VAR.
1495+00
1500+00
1505+00
1510+00
1502+10
1502+80
1503+05
00+51
00+01
12'
16'
14'

RAMP "E"
RAMP "EE"
RAMP "F"
THERMOPLASTIC PAVEMENT MARKING - LINE 12"
(SOLID WHITE) (TYP.)
THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID WHITE)
THERMOPLASTIC PAVEMENT MARKING - LINE 8"
(SOLID WHITE)
THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID YELLOW)
PREFORMED PLASTIC PAVEMENT
MARKING TYPE 3 - LINE 4"
(WHITE SKIP-DASH)
THERMOPLASTIC PAVEMENT
MARKING - LINE 8"
(SOLID WHITE)
THERMOPLASTIC PAVEMENT
MARKING - LINE 12"
(SOLID WHITE) (TYP.)
THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID WHITE)
RAISED REFLECTIVE PAVEMENT MARKER
(ONE-WAY CRYSTAL MARKERS) AT 20' CENTERS
STA. 0+00 TO STA. 4+55 RAMP "F"
RAISED REFLECTIVE PAVEMENT MARKER
(ONE-WAY CRYSTAL MARKERS) AT 40' CENTERS
STA. 1515+57 TO STA. 1519+39 I-57 SB
RAISED REFLECTIVE PAVEMENT MARKER
(ONE-WAY AMBER MARKERS) AT 40' CENTERS
STA. 4+55 TO STA. 9+50 RAMP "F"
POT Sta 20+59.99
POT Sta 21+97.31
PC Sta 13+04.99
PC Sta 4+54.82
PC Sta 9+62.12
TREES
0+00
1515+00
1520+00
1525+00
20+00
18+66
13+39
25+00
5+00
14'
16'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
I-57
STA. 1495+00 TO STA. 1525+00

SCALE: VERT. 50
HORIZ.
DATE

DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/24/2008
FILE NAME = d:\projects\vb2808\vb2808\vbd13\vbd13b18.dgn
PLOT SCALE = 50.0000 '/ IN.
USER NAME = heedon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	735
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

RAMP "EE"
RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKERS) (TYP.)
THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
OLD IL 13
THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE)
RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKERS) (TYP.)
PREFORMED PLASTIC PAVEMENT MARKING TYPE 3 - LINE 4" (WHITE SKIP DASH)
THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
I-57 NB
I-57 SB
RAMP "FF"
THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE)
THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
PREFORMED PLASTIC PAVEMENT MARKING TYPE 3 - LINE 4" (WHITE SKIP DASH)
POT Sta 0+00.00
POT Sta 15+66.61
PROP. CURVE TEMP#1
PI STA. = 201+46.02
Δ = 86° 23' 53" (RT)
D = 36° 50' 46"
R = 155.50'
T = 146.02'
L = 234.48'
E = 57.81'
P.C. STA. = 200+00.00
P.T. STA. = 202+34.48
OVERHEAD SIGN
SIGN
TREES
SCRUB
WALL
RETAINING WALL
SAT DISH
40' (TYP.)
20' (TYP.)
50' 0 25' 50'

PREFORMED PLASTIC PAVEMENT MARKING TYPE 3 - LINE 4" (WHITE SKIP DASH)
THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
PROJECT ENDS
STA. 1542+33 NB I-57
STA. 1542+33 SB I-57
I-57 NB
I-57 SB
IMPROVEMENT ENDS
STA. 1551+75 NB I-57
PREFORMED PLASTIC PAVEMENT MARKING TYPE 3 - LINE 4" (WHITE SKIP DASH)
THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
POT Sta 31+66.61

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
I-57
STA. 1525+00 TO STA. 1555+00

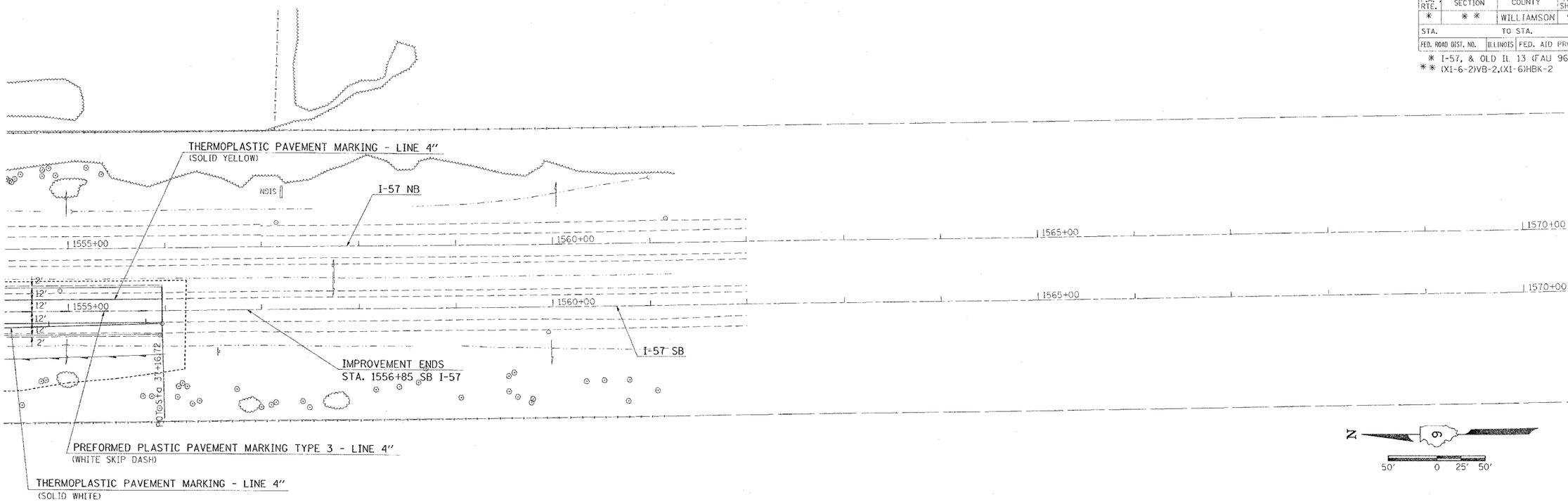
SCALE: VERT. 50 HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

PLOT DATE = 12/7/2006
FILE NAME = c:\projects\d902802\old13\old13pl8.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hendon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	* *	WILLIAMSON	917	736
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



PLOT DATE = 12/13/2006
FILE NAME = s:\pms\pms\vol02682\vol13\vol13sht8.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hreiden

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
I-57
STA. 1555+00 TO STA. 1560+00

SCALE: VERT. 50
HORIZ.
DRAWN BY CNH
DATE
CHECKED BY

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	737
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2, (X1-6)HBK-2

SEE PAVEMENT MARKINGS COMFORT DRIVE AND OLD IL 13, DETAIL SHEET 739

RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKERS) (TYP.)

STA. 754+65 WEST MAIN STREET = COMFORT DRIVE

℄ RAMP "F"

℄ RAMP "FF"

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)

SEE PAVEMENT MARKINGS RAMPS "F", "FF" AND OLD IL 13, DETAIL SHEET 740

PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" (WHITE SKIP DASH)

℄ I-57 SB

℄ I-57 NB

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)

℄ OLD IL 13

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)

STA. 0+00 RAMP "FF" = STA. 762+32.85 WEST MAIN STREET

STA. 10+00 CRISP DRIVE = STA. 762+09.35 WEST MAIN STREET

STA. 16+17.46 RAMP "F" = STA. 761+85.85 WEST MAIN STREET

℄ CRISP DRIVE

RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKERS) (TYP.)

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS

N

50' 0 25' 50'

℄ RAMP "EE"

℄ RAMP "E"

STA. 20+25.44 RAMP "EE" = STA. 772+11.77 WEST MAIN STREET

STA. 0+00 RAMP "E" = STA. 772+58.77 WEST MAIN STREET

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW)

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SKIP DASH)

SEE PAVEMENT MARKINGS RAMPS "E", "EE" AND OLD IL 13, DETAIL SHEET 741

℄ N. 7TH STREET

℄ OLD IL 13

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)

RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKERS) (TYP.)

PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" (WHITE SKIP DASH)

THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE)

RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKERS) (TYP.)

STA. 0+00 NEW PROPOSED CITY STREET = STA. 772+35.27 WEST MAIN STREET

℄ PROPOSED CITY STREET

℄ COMMANDER DRIVE

8' (TYP.) 20' (TYP.) 8' (TYP.) ONE WAY

8' (TYP.) 10' (TYP.) 8' (TYP.)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
OLD IL 13
STA. 755+00 TO STA. 785+00

SCALE: VERT. 50 HORIZ.
DATE

DRAWN BY CNH
CHECKED BY

PLOT DATE = 12/6/2006
FILE NAME = o:\projects\d9202802\old13\old13p10.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hasdon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	* *	WILLIAMSON	917	738
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6.2)VB-2,(X1-6)HBK-2

50' 0 25' 50'

N

9

RAISED REFLECTIVE PAVEMENT MARKER
(ONE-WAY AMBER MARKERS) AT 40' CENTERS
STA. 4+55 TO STA. 9+50 RAMP "F"

℄ RAMP "F"

℄ I-57 SB

℄ I-57 NB

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID WHITE)

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID YELLOW)

THERMOPLASTIC PAVEMENT
MARKING - LINE 4"
(SOLID YELLOW)

℄ RAMP "FF"

POLYUREA PAVEMENT MARKING
TYPE II - LINE 4"
(SOLID YELLOW)

POLYUREA PAVEMENT MARKING
TYPE II - LETTERS AND SYMBOLS
(TYP.)

POLYUREA PAVEMENT MARKING
TYPE II - LINE 4"
(SOLID WHITE)

POLYUREA PAVEMENT MARKING TYPE II - LINE 4"
(SOLID WHITE)

RAISED REFLECTIVE PAVEMENT MARKER
(ONE-WAY CRYSTAL MARKERS) (TYP.)

SEE PAVEMENT MARKING
RAMP "F", "FF" AND
OLD IL 13.
SEE SHEET 740

℄ RAMP "E"

℄ RAMP "EE"

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID YELLOW)

RAISED REFLECTIVE PAVEMENT MARKER
(ONE-WAY AMBER MARKERS) AT 40' CENTERS
STA. 6+40 TO STA. 14+00 RAMP "EE"

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID WHITE)

POLYUREA PAVEMENT MARKING TYPE II - LINE 4"
(SOLID YELLOW)

POLYUREA PAVEMENT MARKING
TYPE II - LETTERS AND SYMBOLS (TYP.)

POLYUREA PAVEMENT MARKING TYPE II - LINE 4"
(SOLID WHITE)

POLYUREA PAVEMENT MARKING TYPE II - LINE 4"
(SOLID WHITE)

RAISED REFLECTIVE PAVEMENT MARKER
(ONE-WAY CRYSTAL MARKERS) (TYP.)

SEE PAVEMENT MARKING RAMP "E", "EE" AND
OLD IL 13. SEE SHEET 741

℄ OLD IL 13

STA. 0+00 RAMP "E" =
STA. 772+58.77 WEST MAIN STREET

STA. 16+17.46 RAMP "F" =
STA. 761+85.85 WEST MAIN STREET

STA. 10+00 CRISP DRIVE =
STA. 762+09.35 WEST MAIN STREET

STA. 0+00 RAMP "FF" =
STA. 762+32.85 WEST MAIN STREET

STA. 20+25.44 RAMP "EE" =
STA. 772+11.77 WEST MAIN STREET

STA. 0+00 NEW PROPOSED CITY STREET =
STA. 772+35.27 WEST MAIN STREET

8' (TYP.) 20' (TYP.) 8' (TYP.)

ONLY

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
RAMPS E, EE, F, FF

SCALE: VERT. 50
HORIZ.
DATE

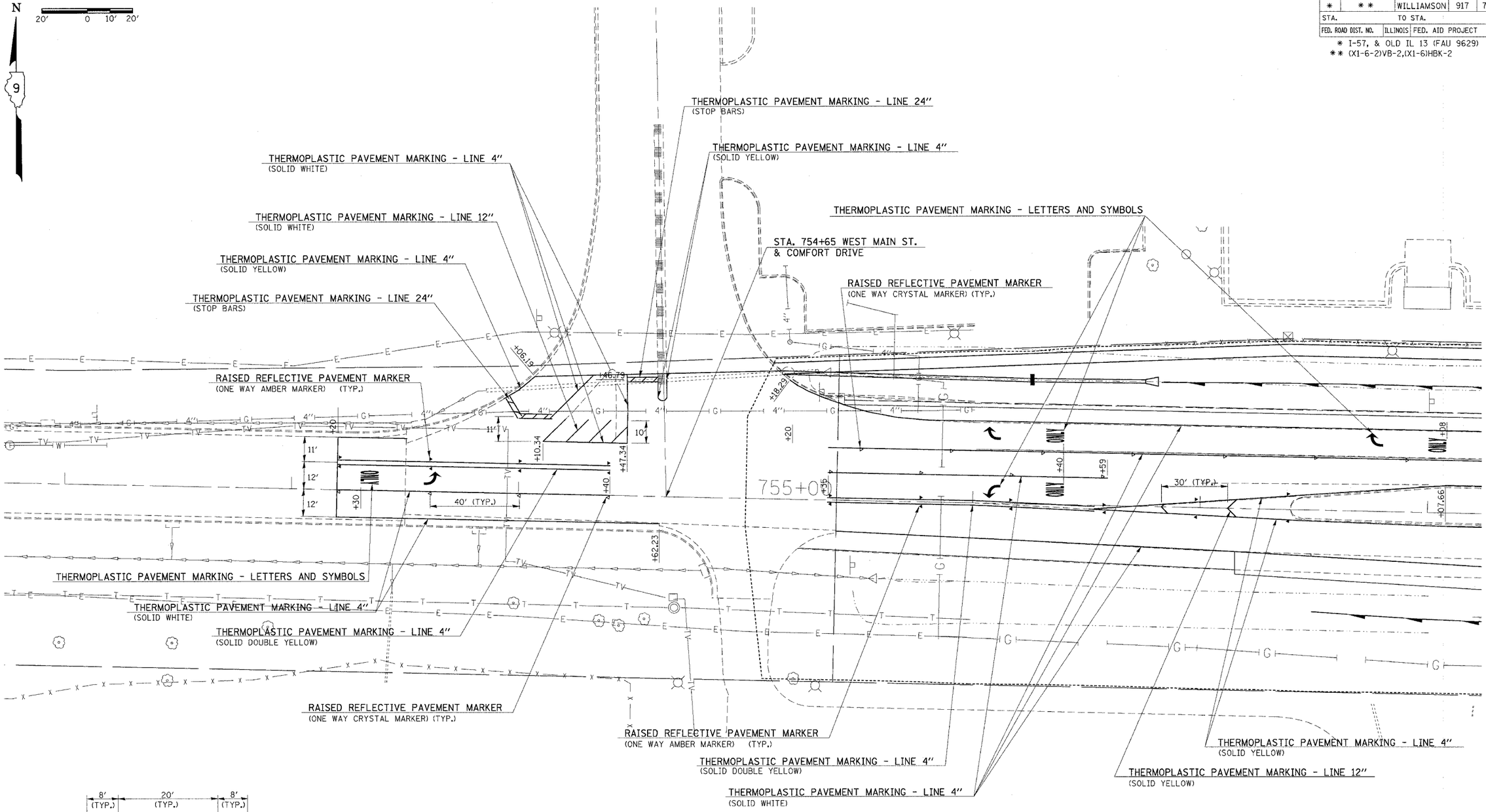
DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/13/2006
FILE NAME = p:\projects\r98280\d3\sld3pl0.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hendon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	739
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



PLOT DATE = 12/6/2006
FILE NAME = c:\projects\vd02002\xld13\xld13s4.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = headon

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
OLD IL 13 AND COMFORT DRIVE

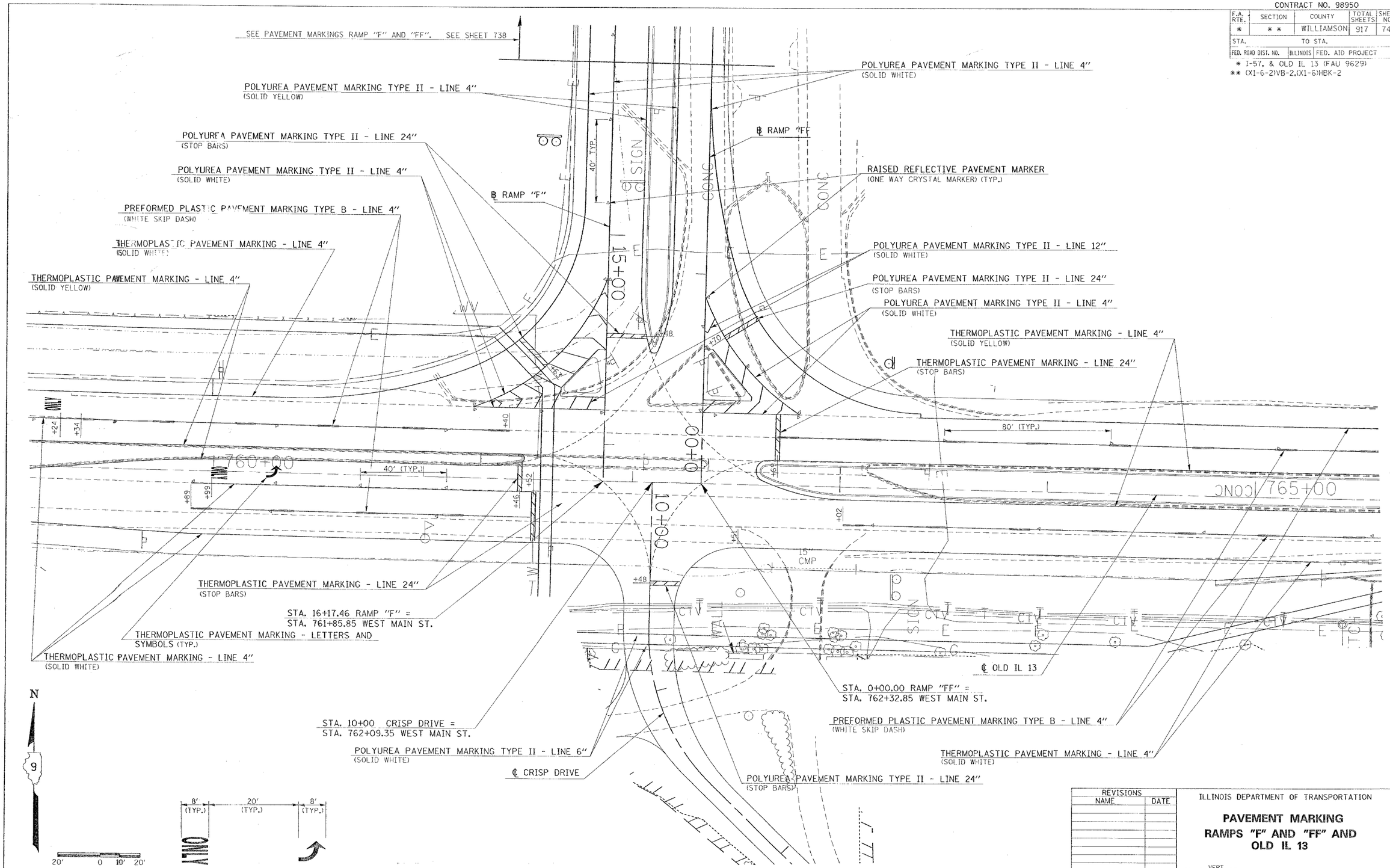
SCALE: VERT. 20 HORIZ.
DATE

DRAWN BY CNH
CHECKED BY

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	740
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
RAMPS "F" AND "FF" AND OLD IL 13

SCALE: VERT. 20 HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

PLOT DATE = 12/13/2006
FILE NAME = c:\projects\2002802\vdot3\vdot3p4.dgn
PLOT SCALE = 20.0000 '/ IN.
USER NAME = headon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	* *	WILLIAMSON	917	741
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

RAISED REFLECTIVE PAVEMENT MARKER
(ONE WAY CRYSTAL MARKER) (TYP.)

SEE PAVEMENT MARKINGS RAMP "E", "EE". SEE SHEET 738

POLYUREA PAVEMENT MARKING TYPE II - LINE 4"
(SOLID YELLOW)

POLYUREA PAVEMENT MARKING TYPE II - LINE 4"
(SOLID WHITE)

℄ RAMP "EE"

℄ RAMP "E"

PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4"
(WHITE SKIP DASH)

POLYUREA PAVEMENT MARKING TYPE II - LINE 12"
(SOLID WHITE) (TYP.)

POLYUREA PAVEMENT MARKING TYPE II - LINE 24"
(STOP BARS) (TYP.)

POLYUREA PAVEMENT MARKING TYPE II - LINE 4"
(SOLID WHITE)

POLYUREA PAVEMENT MARKING TYPE II - LINE 12"
(SOLID WHITE)

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID YELLOW)

POLYUREA PAVEMENT MARKING TYPE II - LINE 4"
(SOLID WHITE)

PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4"
(WHITE SKIP DASH)

THERMOPLASTIC PAVEMENT MARKING - LINE 24"
(STOP BARS)

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID WHITE)

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID YELLOW)

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID WHITE)

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID YELLOW)

℄ OLD IL 13

80' (TYP.)

40' (TYP.)

18' RCCP

12' CMP

48" RCCP

24" RCCP

30" RCCP

15" RCCP

PVC

TO BE BUILT BY OTHERS

AC

AC

1770+00

1775+00

0+00

20+00

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID WHITE)

THERMOPLASTIC PAVEMENT MARKING - LINE 24"
(STOP BARS) (TYP.)

STA. 20+25.44 RAMP "EE" =
STA. 772+11.77 WEST MAIN ST.

STA. 0+00.00 PROPOSED CITY STREET=
STA. 772+35.27 WEST MAIN ST.

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND
SYMBOLS (TYP.)

STA. 0+00.00 RAMP "E" =
STA. 772+58.77 WEST MAIN ST.

THERMOPLASTIC PAVEMENT MARKING - LINE 6"
(SOLID WHITE) (TYP.)

THERMOPLASTIC PAVEMENT MARKING - LINE 12"
(SOLID WHITE) (TYP.)

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID WHITE)

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID YELLOW)

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID WHITE)

THERMOPLASTIC PAVEMENT MARKING - LINE 12"
(SOLID WHITE) (TYP.)

THERMOPLASTIC PAVEMENT MARKING - LINE 6"
(SOLID WHITE) (TYP.)

THERMOPLASTIC PAVEMENT MARKING - LINE 24"
(STOP BARS)

THERMOPLASTIC PAVEMENT MARKING - LINE 24"
(STOP BARS)

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(SOLID WHITE)

N

9

20' 0 10' 20'

8' (TYP.) 20' (TYP.) 8' (TYP.)

OLD IL 13

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
RAMPS "E" AND "EE" AND
OLD ILL 13

SCALE: VERT. 20
HORIZ.
DATE

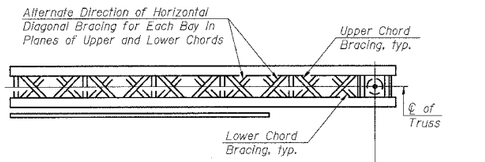
DRAWN BY CNH
CHECKED BY

PLOT DATE = 11/21/2006
FILE NAME = c:\projects\d9282802\old13\old13p4.dgn
PLOT SCALE = 20.0000 ' / in.
USER NAME = headon

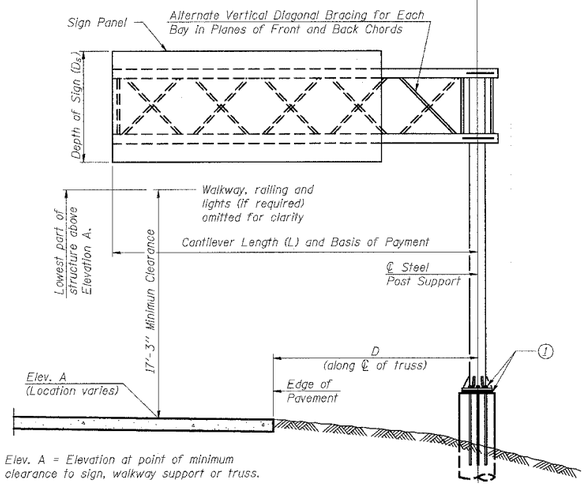
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	742
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



TYPICAL PLAN
(Walkway not shown)



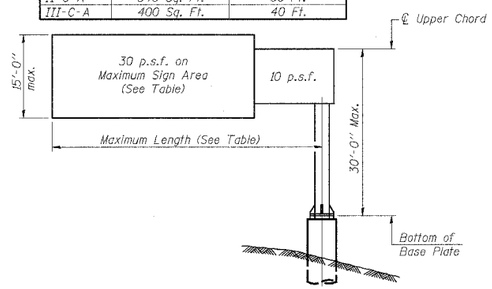
Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

TYPICAL ELEVATION
Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D_s	Total Sign Area
9C100I057R53.1	1515+50	II-C-A	30'	466.4	20'	9'	117

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM
Parameters shown are basis for I.D.O.T. Standards Installations not within dimensional limits shown require special analysis for all components.

① *After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.*

Note:
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

* *If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.*

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction. Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.
All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.*
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 55 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	30
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	14
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	6.9

NUMBER	REVISION	DATE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES
GENERAL PLAN & ELEVATION
ALUMINUM TRUSS & STEEL POST

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

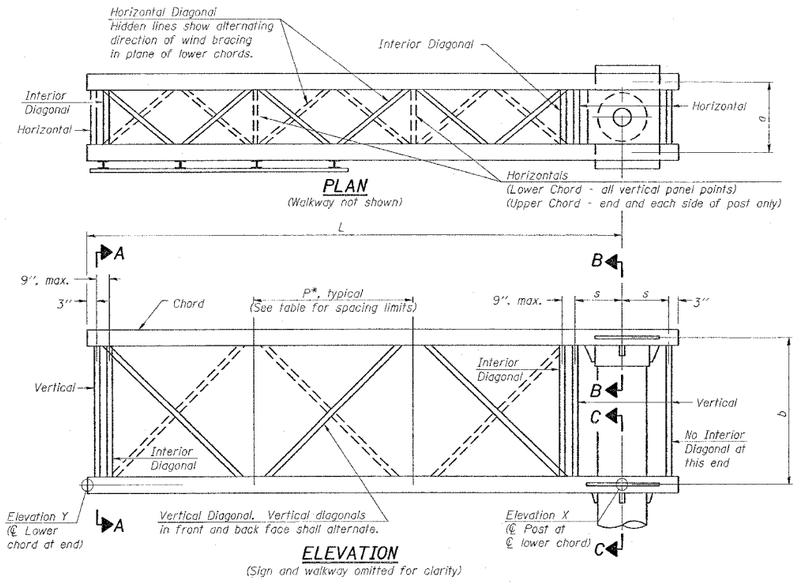
OSC-A-1 1-7-05

PLOT DATE = 12/13/2005
FILE NAME = c:\projects\d1802802\xldt13\xldt13p6.dgn
PLOT SCALE = 50.0000 '/ IN.
USER NAME = headon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	743
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

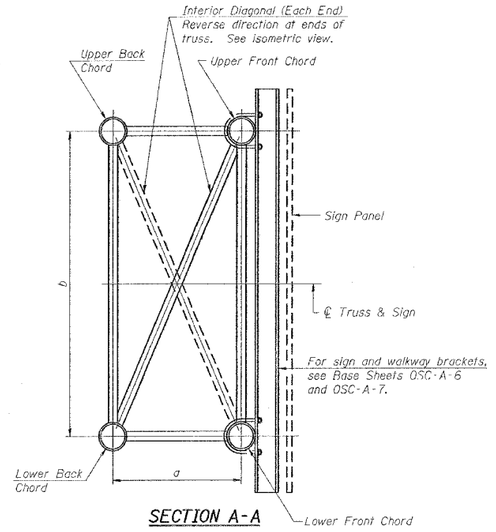
* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



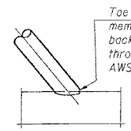
TYPICAL TRUSS UNIT

For Section B-B and Section C-C, see Base Sheet OSC-A-3.

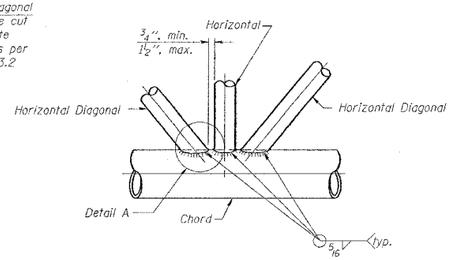
Note:
There are twice as many horizontal diagonals as there are vertical diagonals.



SECTION A-A

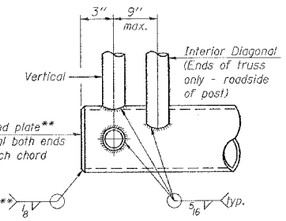


DETAIL A



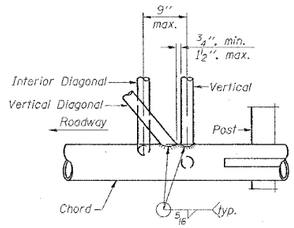
TRUSS INTERIOR JOINT DETAIL

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
9C100I057R53.1	1515+50	II-C-A	30'	7	4

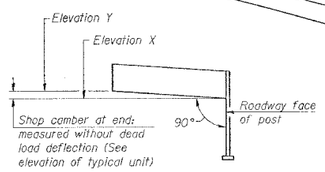


CANTILEVER END JOINT DETAIL

** Contractor may alternatively use standard aluminum drive-fit cap to close ends.



POST END JOINT DETAIL



CAMBER DIAGRAM

(For Fabrication Only)

ISOMETRIC VIEW
TYPICAL TRUSS UNIT

ASTM B221 Alloy 6061 Temper T6

SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"
36'-37'	4"
38'-40'	4 1/2"

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals: Horizontals: Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	5/16"	3 1/4"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	3/8"	3 1/2"	3/8"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	3/8"	3 1/2"	3/8"

*$P = \frac{L - s - 3"}{\#\ Panels}$

NUMBER	REVISION	DATE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES
TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

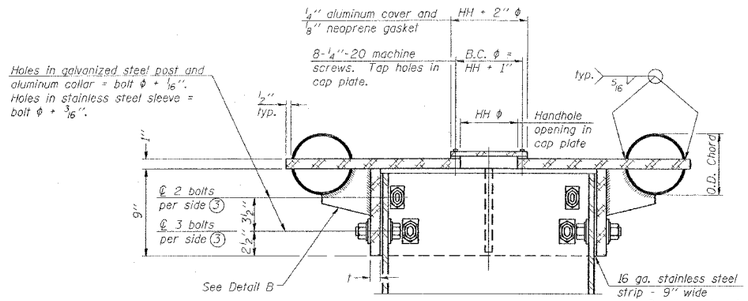
OSC-A-2 1-7-05

PLOT DATE = 10/12/2020
FILE NAME = a:\projects\c902802\sht3\sht3\osc5d.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hedson

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	744
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

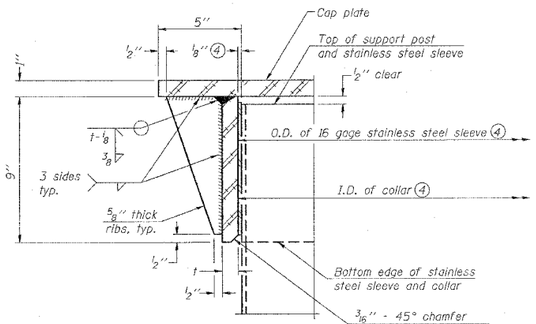
* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



SECTION B-B

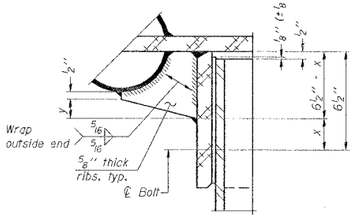
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

(4) Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (±1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.



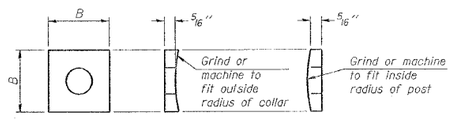
DETAIL A

(Two locations)



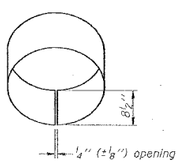
DETAIL B

Two locations
(For details not shown, see Detail C)



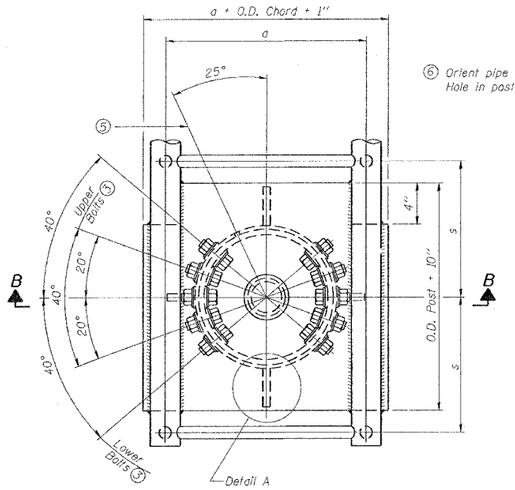
CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"



DETAIL OF STAINLESS STEEL SLEEVE

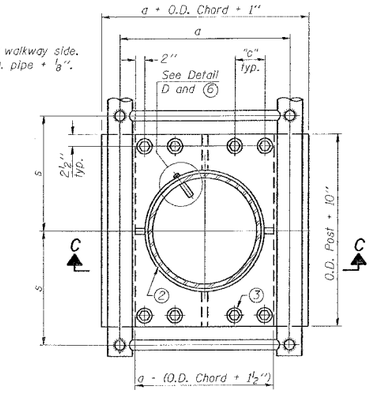
Weld to post after galvanizing.
(Prepare post surface to insure tight, uniform fit and allow welding.)
Welds to be 1 1/2" long at 6" cts. along top edge and at 1/4" opening.



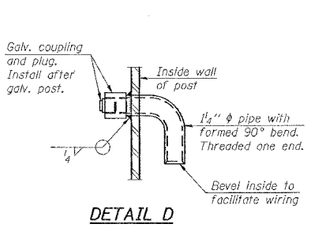
PLAN VIEW - TOP OF COLUMN

5 Optional full penetration weld in collar. (Two locations maximum....(180° apart)....X-ray or UT 100%)

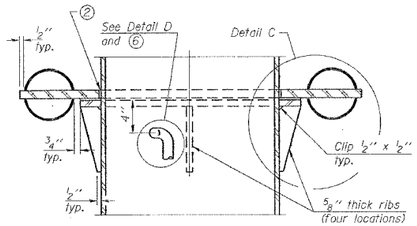
(6) Orient pipe toward walkway side. Hole in post = O.D. pipe + 1/8".



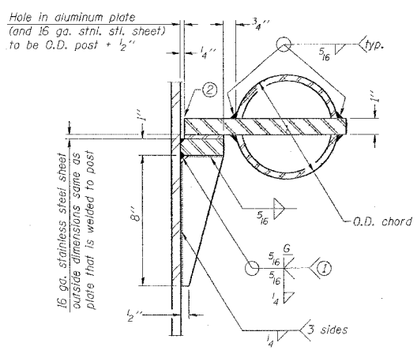
SECTION THRU POST ABOVE LOWER CHORDS



DETAIL D



SECTION C-C



DETAIL C

(1) Grind top if required to fully seat aluminum plate and stainless steel sheet.

(2) After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter (3)	Lower Juncture Bolt Spacing Dimension "c" (3)	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" ϕ (83#/')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" ϕ (125#/')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" ϕ (125#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" ϕ (171#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

(3) Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

NUMBER	REVISION	DATE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES
JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

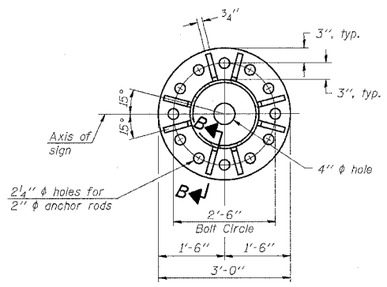
OSC-A-3 1-7-05

PLOT DATE = 10/12/2005
FILE NAME = c:\projects\d902802\plat3\oldt3p5.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hendon

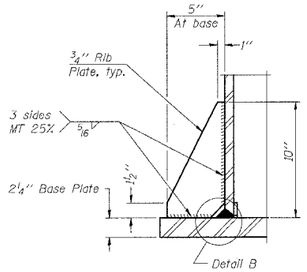
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	745
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

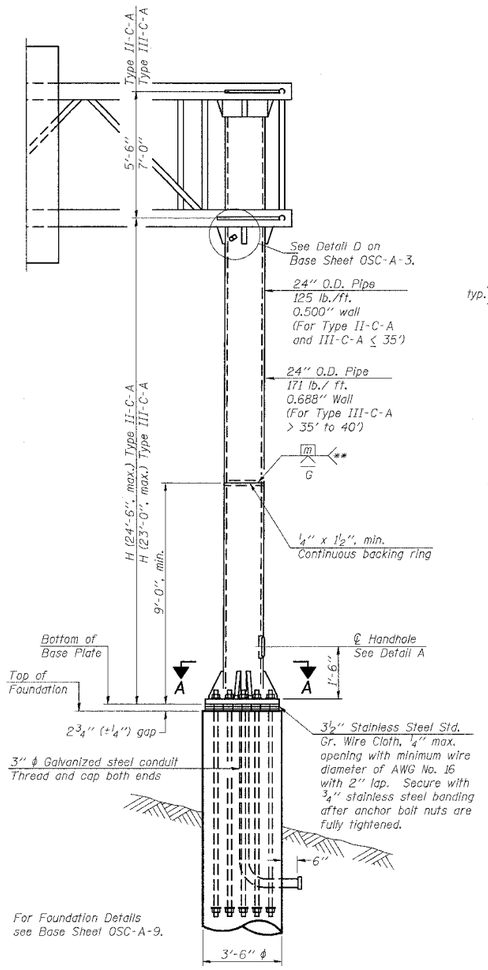


SECTION A-A



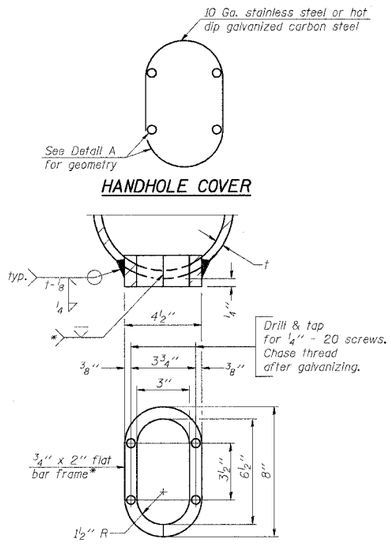
SECTION B-B

DETAIL B
(Typical rib)



For Foundation Details see Base Sheet OSC-A-9.

FRONT ELEVATION



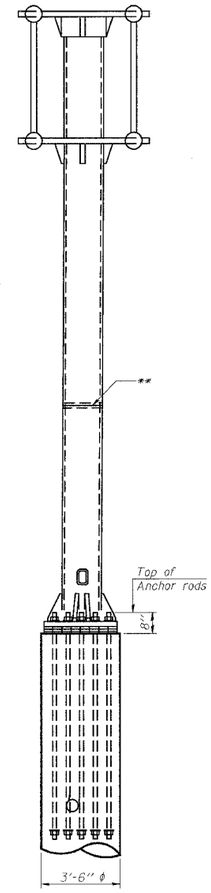
Provide 8" x 4½" cover. Outside corners = 2¼" radius. Provide 4-$^{5}/_{16}$" ϕ holes in cover for ¼" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

HANDHOLE COVER

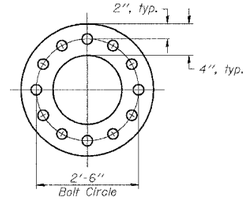
DETAIL A

* Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 µin or less.

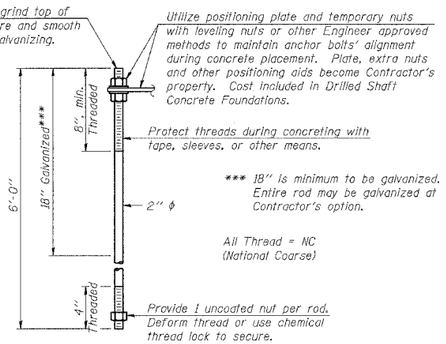
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.



SIDE ELEVATION



SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

Anchor rods shall conform to AASHTO M314 Grade 55 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F. before galvanizing. Galvanize the upper 18" (minimum***) and associated M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide an unfinished nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, ½" ϕ 3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

Structure Number	Station	H
9C100I057R53.1	1515+50	22.1

NUMBER	REVISION	DATE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES
TYPE II-C-A & III-C-A TRUSS SUPPORT POST
ALUMINUM TRUSS & STEEL POST

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

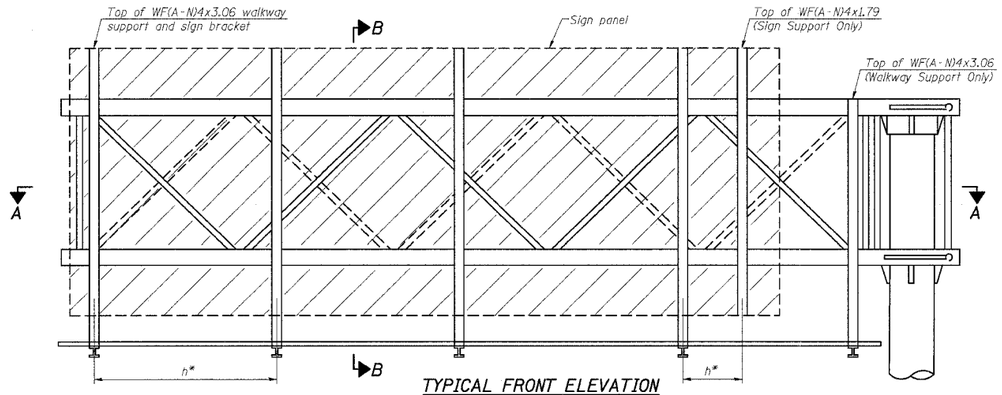
OSC-A-5 1-7-05

PLOT DATE = 12/13/2005
FILE NAME = c:\projects\VA98282\sheets\osc43p5.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hwadcn

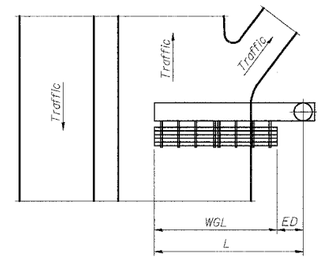
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	746
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

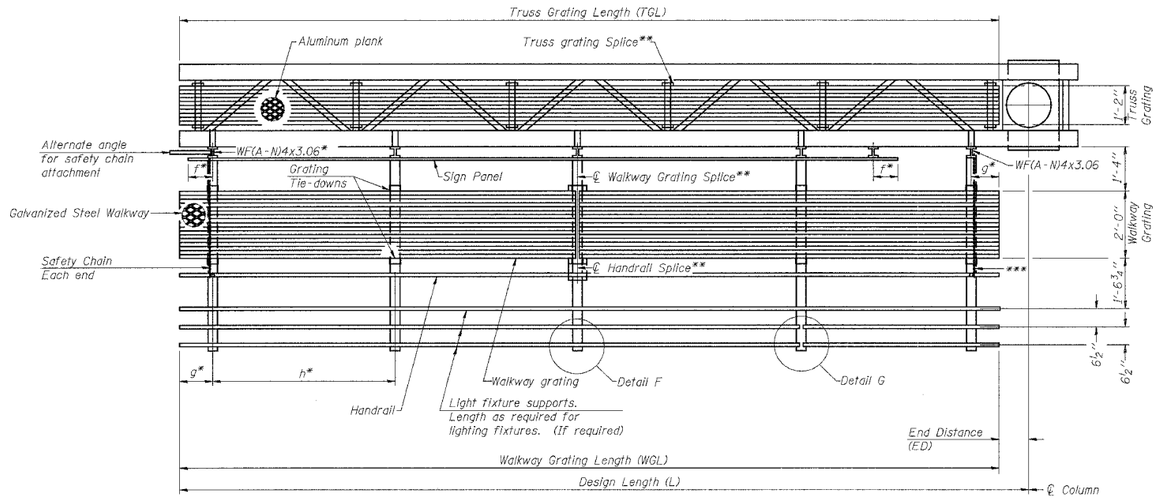


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.



PLAN
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)

Walkway and truss grating dimensions are nominal and may vary (width ±½", depth ±½") based on available standard widths.



SECTION A-A

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices.
*** Use and location of handrail or grating splices are optional, based on lengths needed and material availability.*

$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6''\right)$$

Structure Number	Station	WGL	ED	TGL
9C1001057R53.1	1515+50	14'	16'	28.5

Notes:
** Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:*

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway to ℄ of nearest bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

**** If walkway bracket at safety chain location is behind sign, add angle to bracket.*

For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7S.
For details of handrail, handrail splice, safety chain and Details F and G, see Base Sheet OSC-A-8.

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

NUMBER	REVISION	DATE

OSC-A-6S 1-7-05

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES
ALTERNATE STEEL WALKWAY DETAILS
ALUMINUM TRUSS & STEEL POST

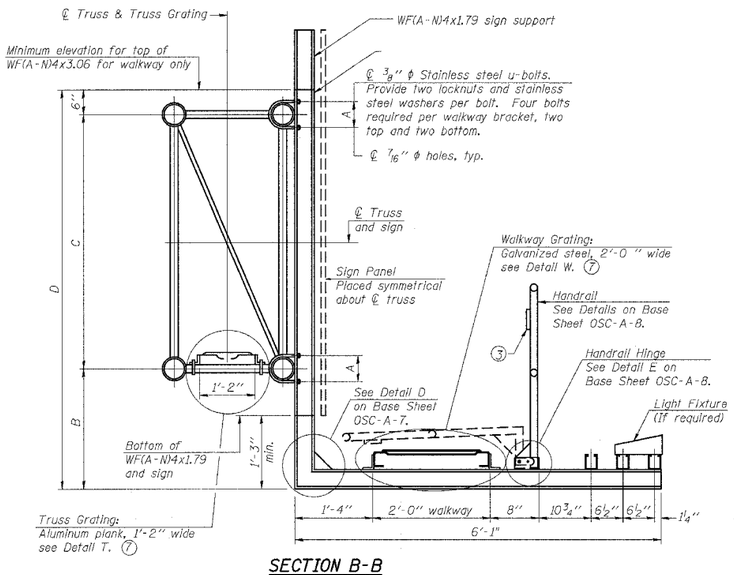
SCALE: VERT. NONE
HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

PLOT DATE = 12/13/2005
FILE NAME = c:\projects\d982682\cld13\old13c5.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = heedon

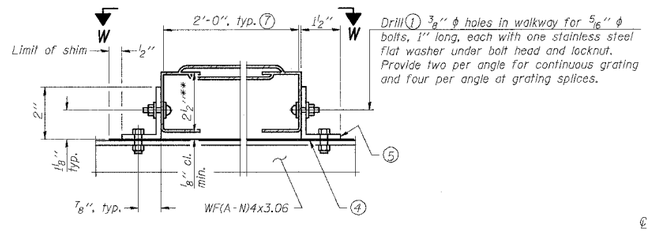
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	747
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

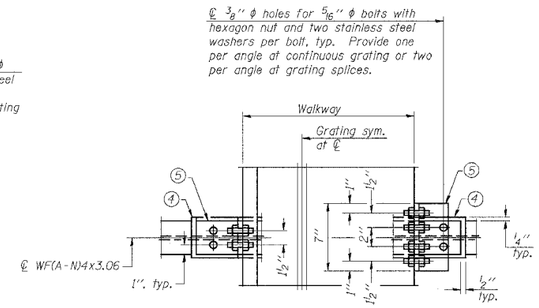
* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



SECTION B-B

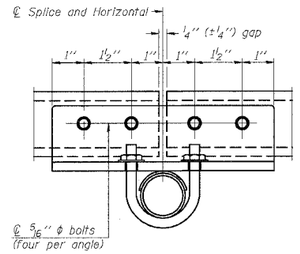


DETAIL W
GALVANIZED STEEL WALKWAY GRATING



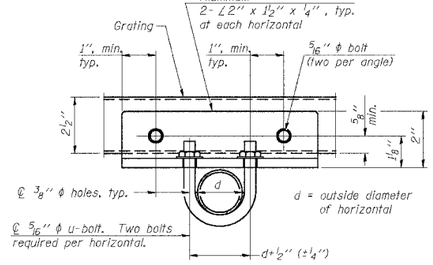
WALKWAY GRATING CONTINUOUS AT WALKWAY GRATING SPLICE

SECTION W-W

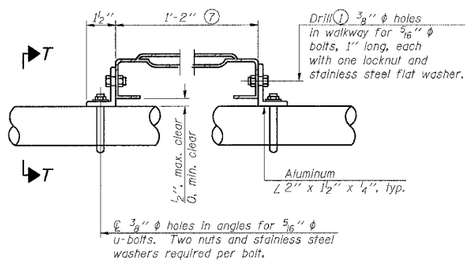


SECTION T-T
(Truss Grating Splice)

Details not shown same as Section T-T. Alternate splice details and locations may be used subject to the Engineer's review and approval.



SECTION T-T
(Truss Grating Continuous)



DETAIL T
(Truss Grating at Horizontal)

1. Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
2. When truss grating must be spliced, use suggested details or other methods in accord with grating manufacturer's recommendation and subject to the Engineer's review and approval.
3. ℄ 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
4. 1/16" (or 16 ga.) x 2 1/2" x 4" stainless steel shim adhered to top of WF(A-N)4x3.06 beneath each galvanized angle, typ. Adhesives for shims shall be suitable for materials joined and full exposure conditions.
5. Galvanized steel L2" x 1 1/2" x 1/4", 3 1/2" long with continuous grating 7 1/2" long at grating splice.
6. Details shown are considered equal alternatives to Aluminum Walkway Details and may be substituted by Contractor at no charge in contract cost.
7. Perforated or expanded metal grating providing a skid resistant (non-serrated) surface and capable of supporting a 500 pound concentrated load with a 6'-0" clear span. Walkway and truss grating dimensions are nominal and may vary (width ±1/2", depth ±1/2") based on available standard sizes. Cut ends of grating shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

ALUMINUM TRUSS GRATING

Structure Number	Station	A	B	C	D
9C100I057R53.1	1515+50	7"	6'	5'-6"	12'

NUMBER	REVISION	DATE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES
ALTERNATE WALKWAY DETAILS

SCALE: VERT. NONE HORIZ.
DATE

DRAWN BY CNH
CHECKED BY

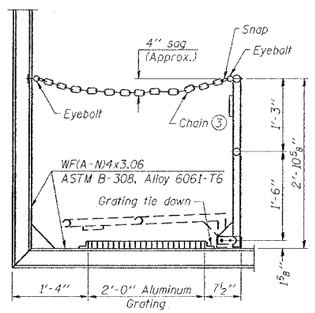
OSC-A-7S 1-7-05

PLOT DATE = 12/13/2006
FILE NAME = c:\projects\d982882\old13p5.dgn
PLOT SCALE = 58.0000 ' / IN.
USER NAME = heeden

CONTRACT NO. 98950

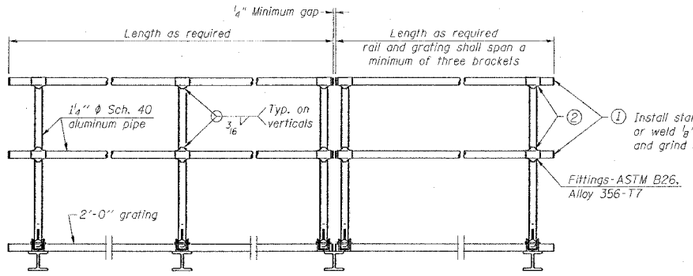
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	748
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



SIDE ELEVATION

(Showing Safety Chain W/O Sign)



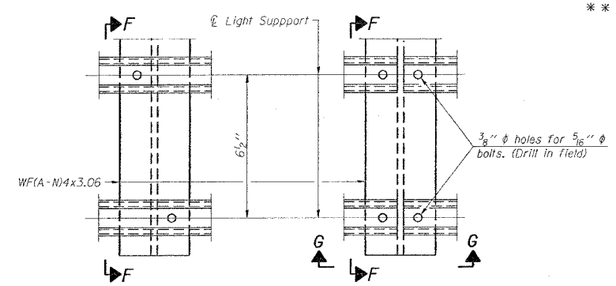
FRONT ELEVATION

HANDRAIL DETAILS

Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.

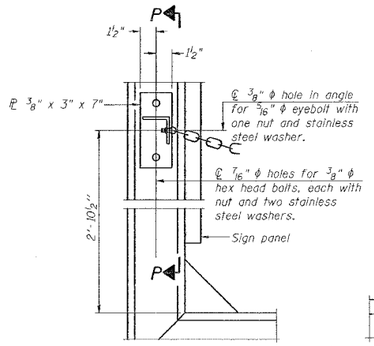
(1) Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)

(2) Horizontal handrail member shall be continuous thru fitting. Provide 7/16" ϕ hole in fitting for 3/8" ϕ bolt. Field drill 7/16" ϕ hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" ϕ holes on top rail at ends only.)



DETAIL F

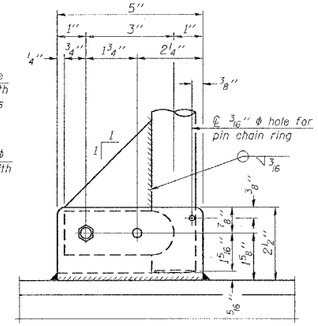
DETAIL G



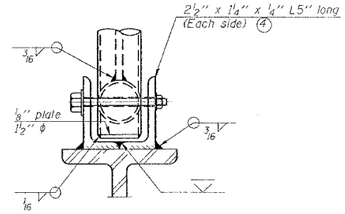
ALTERNATE SAFETY CHAIN ATTACHMENT

(With Sign Present)

Items not shown same as "Side Elevation" of "Handrail Details"

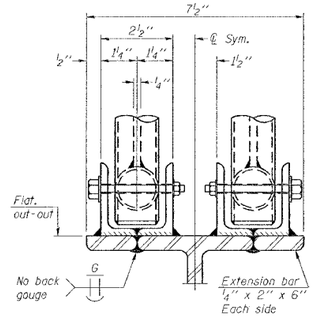


SIDE ELEVATION



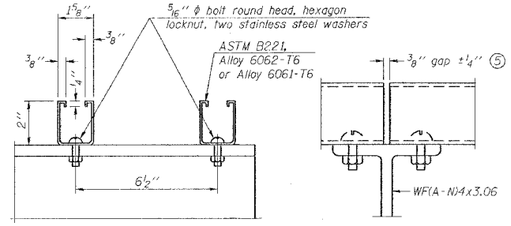
FRONT ELEVATION

Details not shown same as "ELEVATION" at right.



ELEVATION AT HANDRAIL JOINT (4)

Details not shown same as "FRONT ELEVATION"

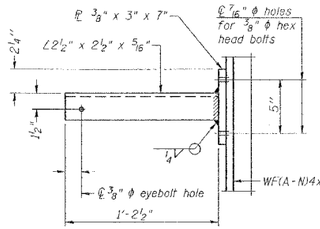


SECTION F-F

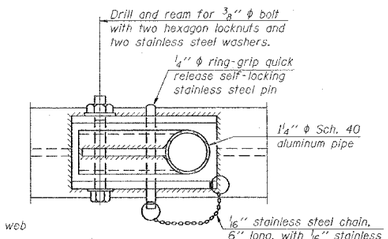
SECTION G-G

LIGHTING FIXTURE MOUNTS (IF REQUIRED)

(5) Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

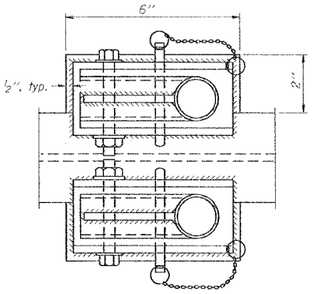


SECTION P-P



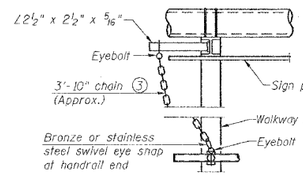
PLAN

DETAIL E HANDRAIL HINGE



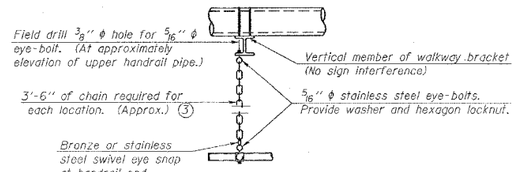
PLAN AT HANDRAIL JOINT

Details not shown same as "PLAN"



ALTERNATE SAFETY CHAIN ATTACHMENT

Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)



SAFETY CHAIN

One required for each end of each walkway.

(3) 3/16" galvanized steel chain, approximately 12 links per foot. Chain to be hot dip galvanized after manufacture and suitable for prolonged exterior exposure. Alternate materials may be substituted with the Engineer's approval.

(4) Extrusions may be used in lieu of the details shown, with approval of the Engineer.

NUMBER	REVISION	DATE

OSC-A-8 1-7-05

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES
HANDRAIL DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

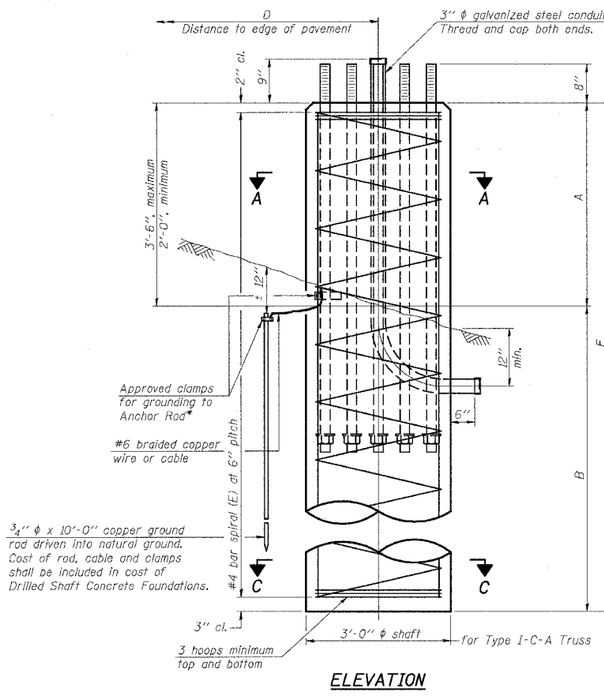
PLOT DATE = 10/12/2006
FILE NAME = c:\projects\...\d1d13\cold\ohs5dgn
PLOT SCALE = 50.0000 '/ IN.
USER NAME = headon

CONTRACT NO. 98950

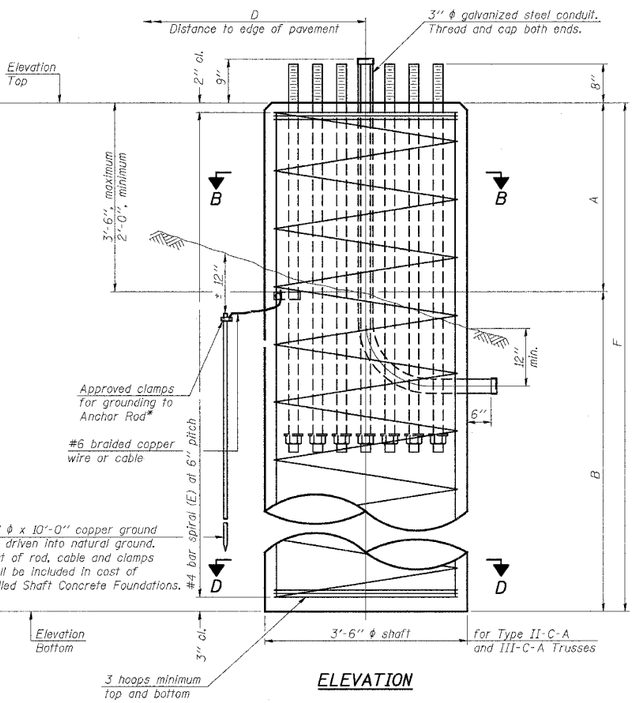
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	749
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

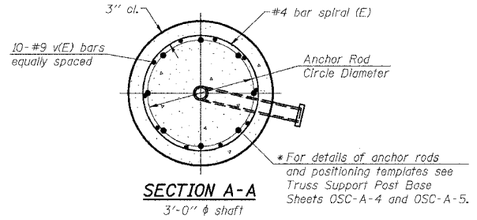
* Grind anchor rod to bright finish at ground clamp location before installing clamp.



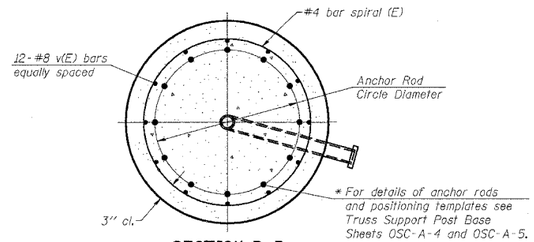
ELEVATION



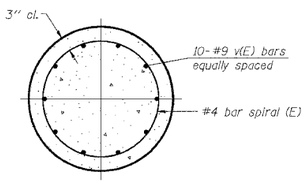
ELEVATION



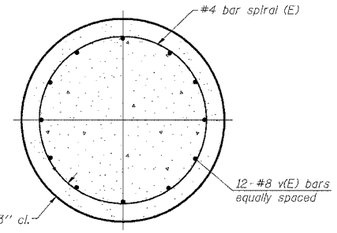
SECTION A-A
3'-0" ϕ shaft



SECTION B-B
3'-6" ϕ shaft



SECTION C-C
3'-0" ϕ shaft



SECTION D-D
3'-6" ϕ shaft

NOTES:

The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf. which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

FOUNDATION DATA TABLE

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class SI Concrete Cubic Yards
9C100I057R53.1	1515+50	II-C-A	3.5	467.3	447.8	1.32	2.5'	17'	19.5'	6.9

FOUNDATION DESIGN TABLE

Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods No.	Anchor Rods Diameter (in)	Anchor Rod Circle Diameter (in)
I-C-A	OSC-A-4	25	170	3.0	16.0	8	2	22
II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
II-C-A	OSC-A-5	30	340	3.5	21.5	12	2	30
III-C-A	OSC-A-5	35	170	3.5	19.0	12	2	30
III-C-A	OSC-A-5	35	250	3.5	22.5	12	2	30
III-C-A	OSC-A-5	35	400	3.5	26.5	12	2	30
III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

NUMBER	REVISION	DATE

OSC-A-9 1-7-05

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES
DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST

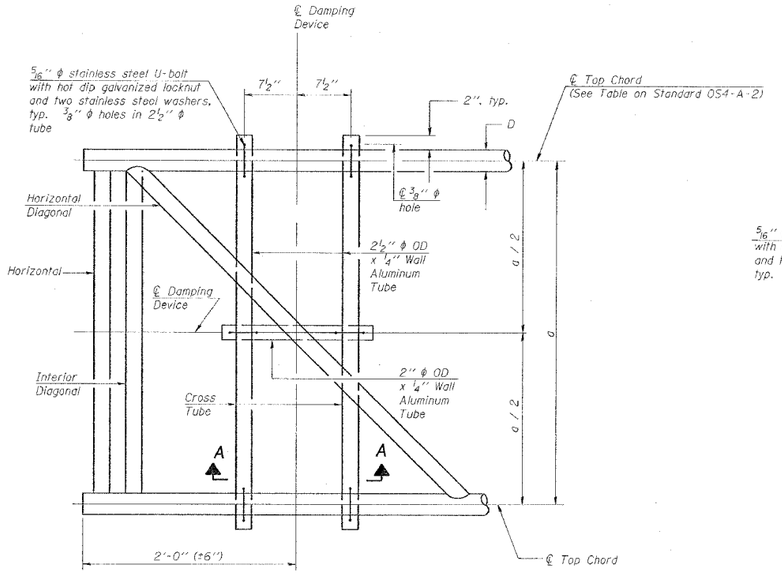
SCALE: VERT. NONE HORIZ.
DRAWN BY CNH
DATE
CHECKED BY

PLOT DATE = 12/15/2005
FILE NAME = c:\projects\...\d2822822\old3\old3p5.dgn
PLOT SCALE = 50.0000 '/ IN.
USER NAME = headon

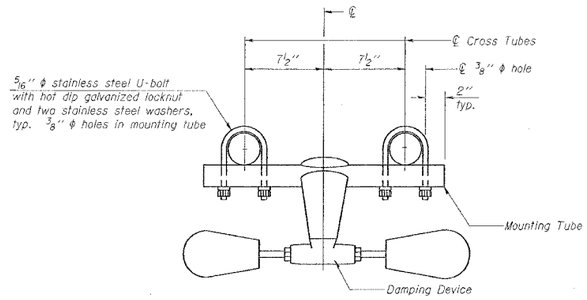
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	750
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

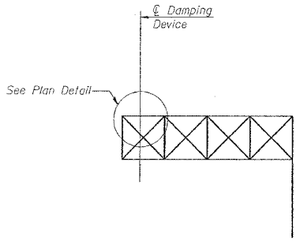
* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



PLAN DETAIL



TRUSS DAMPING DEVICE CONNECTION DETAIL

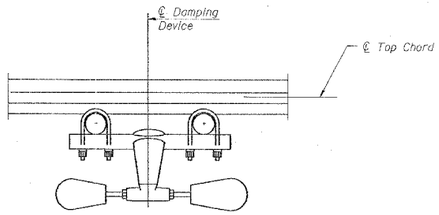


ELEVATION
Aluminum Cantilever Sign Structure

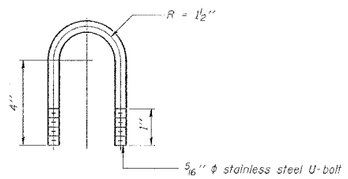
GENERAL NOTES

Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum)

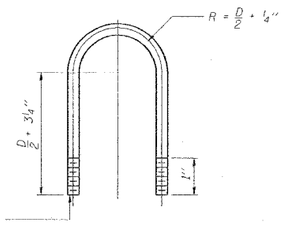
Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURE DAMPING DEVICE

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

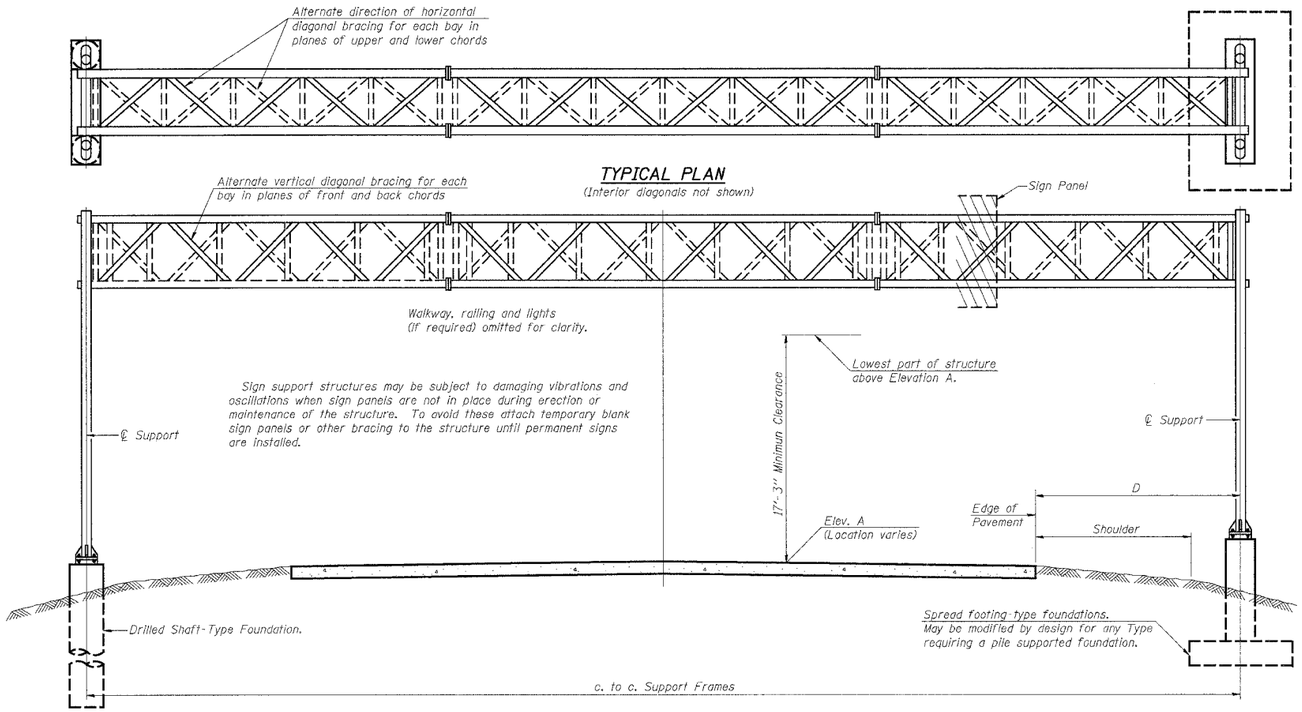
OSC-A-D 1-7-05

PLOT DATE = 10/12/2005
FILE NAME = d:\projects\df9828\x1d13\x1df3p5.dgn
PLOT SCALE = 50.0000 '/ IN.
USER NAME = headon

CONTRACT NO. 98950

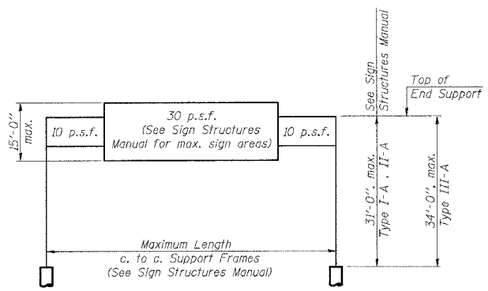
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	751
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



TYPICAL PLAN
(Interior diagonals not shown)

TYPICAL ELEVATION
(Looking at Face of Signs**)



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
9S100I057L52.8	1532+00	I-A	80	472.34	LT 20', RT 8'	15'-0"	508.5

**Looking upstation for structures with signs both sides.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WIND LOADING: 30 p.s.f. normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'_c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.
All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.*
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 36 or 55 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE TYPE I-A (4'-0" x 4'-6")	Foot	80
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	57
CONCRETE FOUNDATIONS	Cu. Yds.	17.2
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	14.8

NUMBER	REVISION	DATE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
GENERAL PLAN & ELEVATION
ALUMINUM TRUSS & STEEL SUPPORTS

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

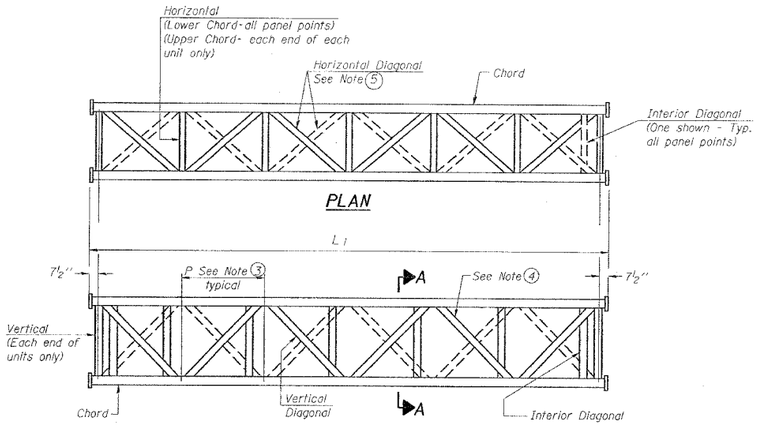
OS-A-1 I-7-05

PLOT DATE = 12/13/2006
FILE NAME = c:\projects\d982882\sid13\sid3p5.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = headen

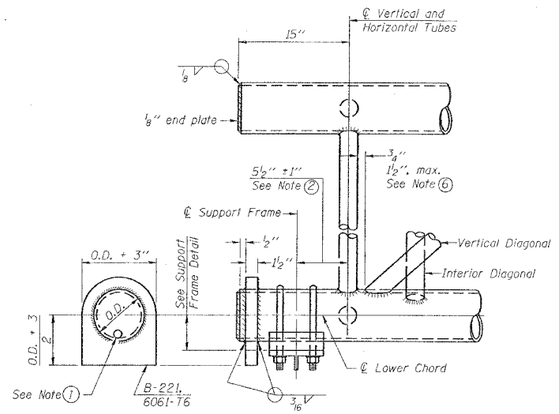
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	752
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

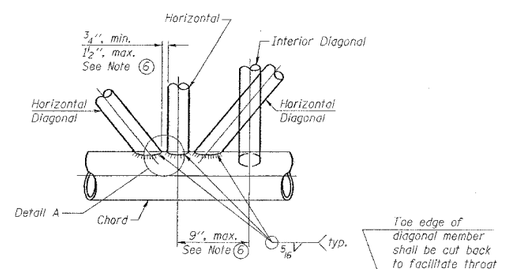
* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

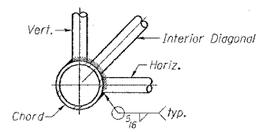


ELEVATION
TYPICAL INTERIOR UNIT
Even number of panels/interior unit required.

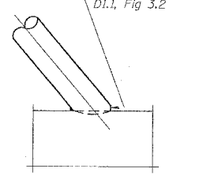


SUPPORT END DETAIL FOR EXTERIOR UNIT

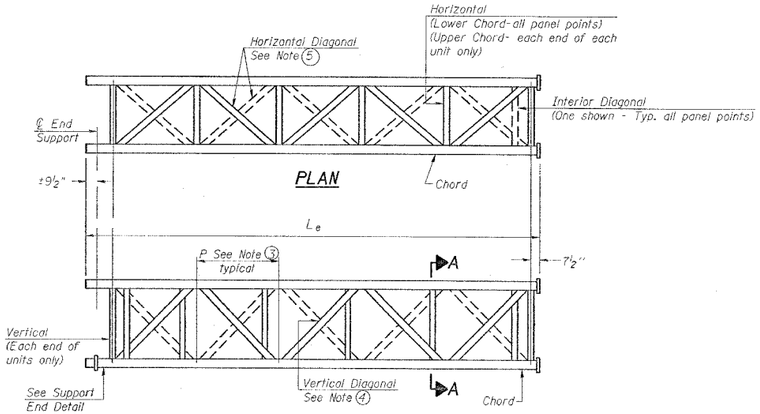




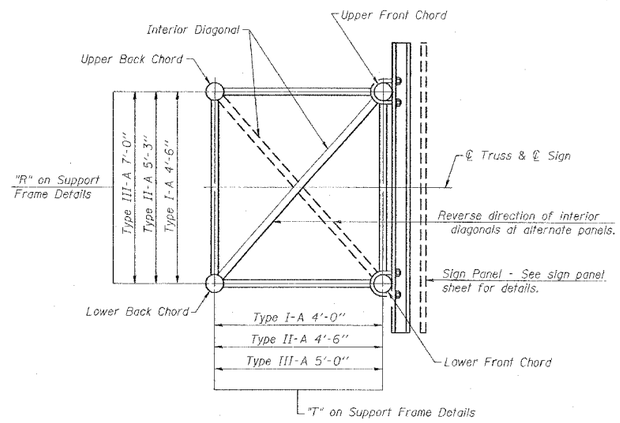
TYPICAL JOINT DETAILS



DETAIL A



ELEVATION
TYPICAL EXTERIOR UNIT
Even or odd number of panels/exterior units allowed.



SECTION A-A

NOTES

(1) Contractor may alternatively use standard aluminum drive-fit cap to close end. ½" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)

(2) 5½" end dimension may vary by ±1" to provide uniform panel spacing (P).

(3) Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.

(4) Vertical Diagonals in front and back face shall alternate.

(5) Hidden lines show wind bracing alternates direction between planes of top and bottom chords.

(6) All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a ¾" minimum to 1½" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

NUMBER	REVISION	DATE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A and III-A

SCALE: VERT. NONE
HORIZ.
DATE

DRAWN BY CNH
CHECKED BY

OS-A-2 1-7-05

PLT: DATE = 10/12/2006
FILE NAME = e:\projects\d92202\old13\old13s5.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hodson

CONTRACT NO. 98950

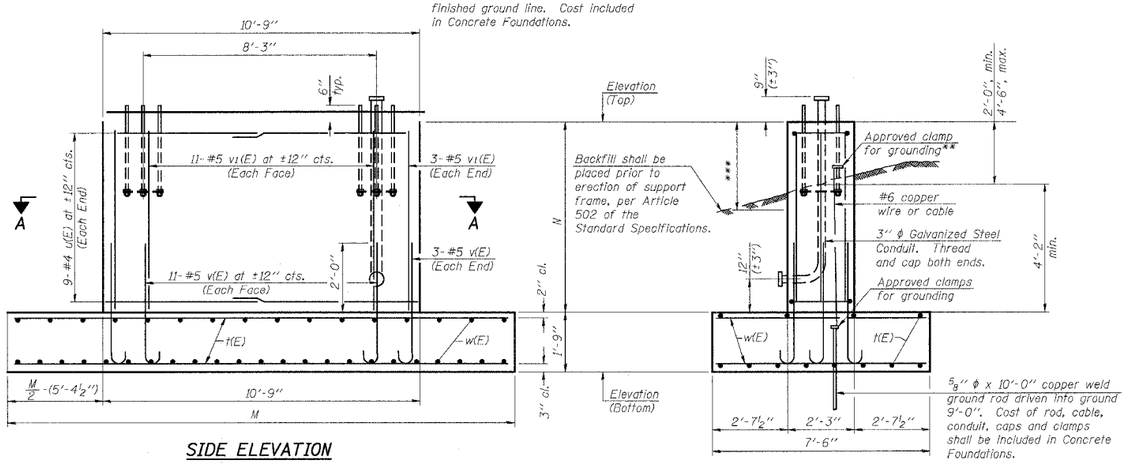
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	753
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

For anchor rod size and placement, see Support Frame Detail Sheet.

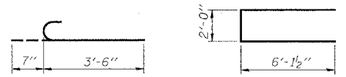
** Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

*** A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Concrete Foundations.



SIDE ELEVATION

END ELEVATION

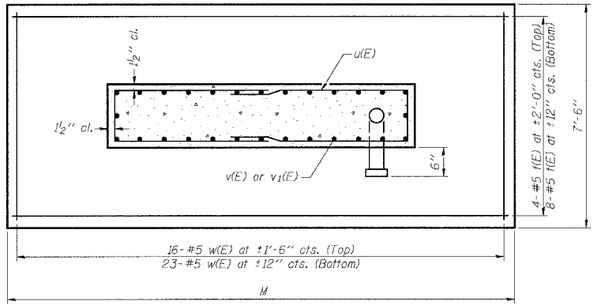


BAR v(E) BAR u(E)

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
t(E)	12	#5	*	
u(E)	18	#4	14'-3"	
v(E)	28	#5	4'-1"	
v1(E)	28	#5	*	
w(E)	39	#5	7'-3"	

*Length of t(E) bar = (Dim. M) - 6"
v1(E) bar = (Dim. N) - 3"



SECTION A-A

Structure Number	Station	Left Foundation				Right Foundation				Class SI Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	N	M	Elevation Top	Elevation Bottom	N	M	
9S100I057L52.8	1532+00	471.48	462.23	7.5'	21.5'	-	-	-	-	17.2

Note:
The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.0 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.
During construction, if footing length or width or wall height change by more than 12", or if reinforcement is changed, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

DETAILS FOR 10" ϕ SUPPORT FRAME

NUMBER	REVISION	DATE

OS-F3 1-7-05

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES SPREAD FOOTING DETAILS

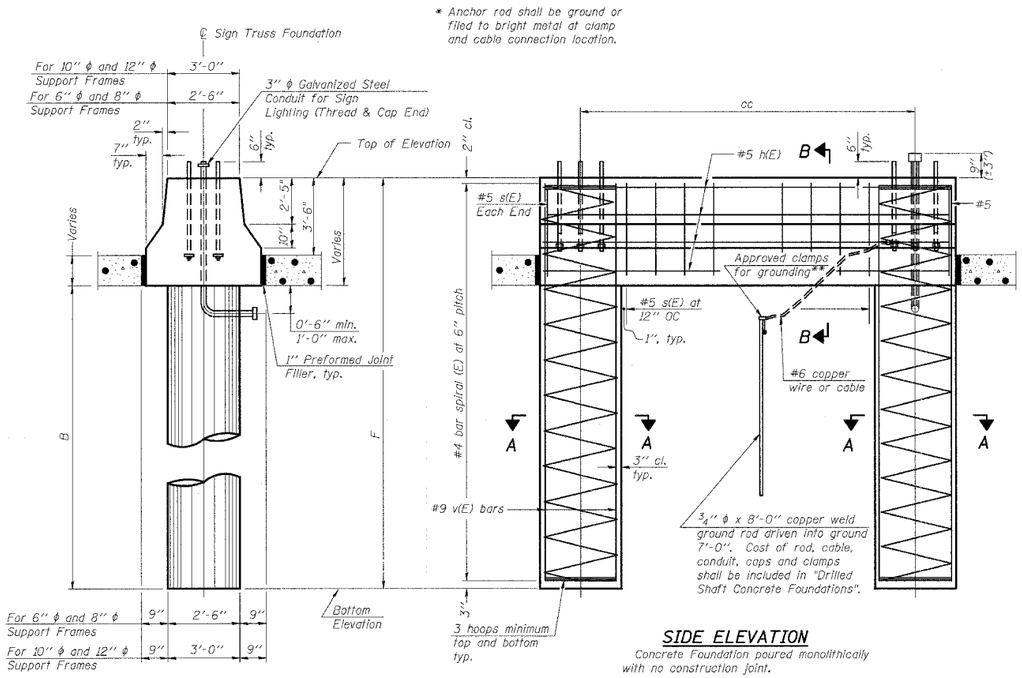
SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

PLOT DATE = 12/13/2005
FILE NAME = c:\projects\d9820882\dd9820882\dd9820882\dd1305\dd13g05.dgn
PLOT SCALE = 50.0000 '/ IN.
USER NAME = headen

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	754
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

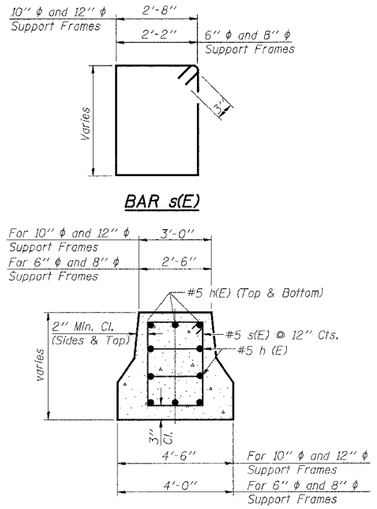
* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



END VIEW

SIDE ELEVATION

Concrete Foundation poured monolithically with no construction joint.



BAR s(E)

SECTION B-B

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

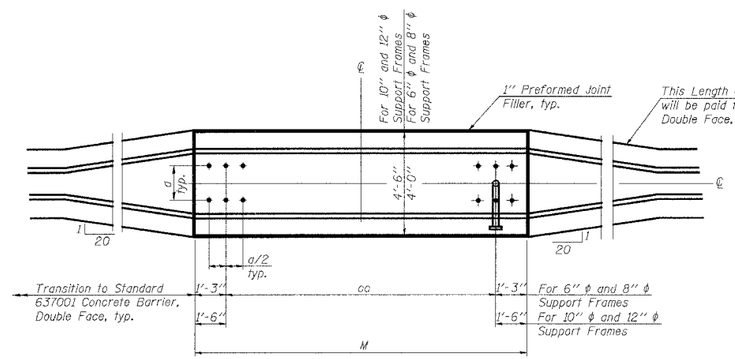
Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

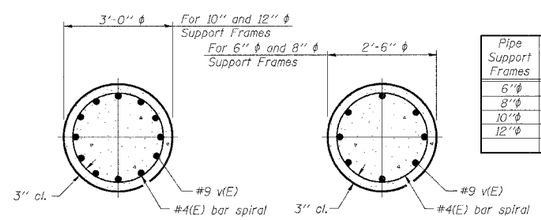
BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape	
h(E)	10	#5	M less 4"	——	
s(E)	Varies	#5	Varies	□	6" ϕ and 8" ϕ Support Frame
v(E)	16	#9	F less 0'-5"	——	
v(E)	24	#9	F less 0'-5"	——	10" ϕ and 12" ϕ Support Frame
#4(E) bar spiral _ see Side Elevation					



PLAN

Structure Number	Station	Left Foundation				Right Foundation				Class SI Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
9S100I057L52.8	1532+00	-	-	-	-	475.15	454.36	16.5	20.79	14.8



SECTION A-A

Pipe Support Frames	cc	M	a	a/2
6"ϕ	1'-0"	9'-6"	0'-11"	5 1/2"
8"ϕ	1'-6"	10'-0"	1'-1 1/2"	6 3/4"
10"ϕ	1'-3"	10'-9"	1'-3"	7 1/2"
12"ϕ	1'-0"	12'-0"	1'-6"	9"

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS

SCALE: VERT. NONE
HORIZ.
DATE

DRAWN BY CNH
CHECKED BY

OS4-MED 1-7-05

PLOT DATE = 12/13/2005
FILE NAME = c:\projects\d9928982\sht\d9928982_sht13p5.dgn
PLOT SCALE = 50.8000 '/ IN.
USER NAME = hsedon

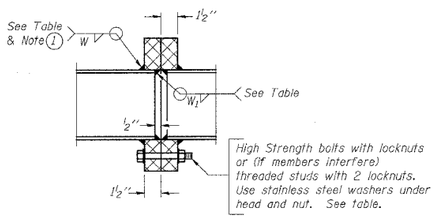
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	755
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

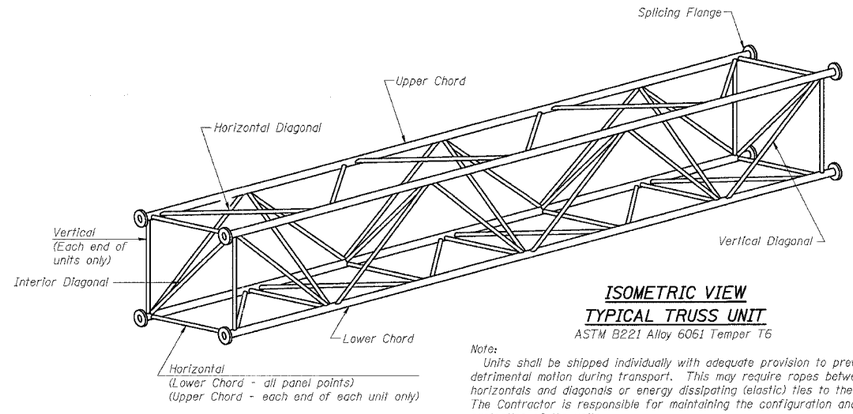
TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L_e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L_i)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W_1		
9S100I057L52.8	1532+00	I-A	5	25'-10"	4'-9 1/2"	1	6	30'-0"	4'-9 1/2"	5	5/16	2 1/2	5/16	2.25	6	7/8	5/16	1/4	8 3/4	11 3/4



SECTION B-B

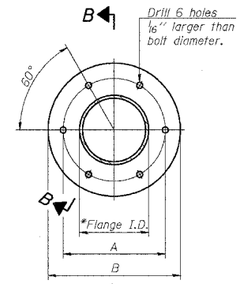
(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



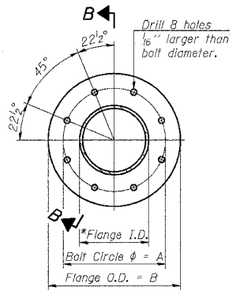
ISOMETRIC VIEW
TYPICAL TRUSS UNIT

ASTM B221 Alloy 6061 Temper T6

Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.

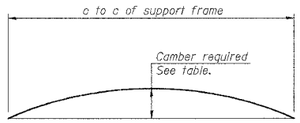


TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A
SPLICING FLANGES

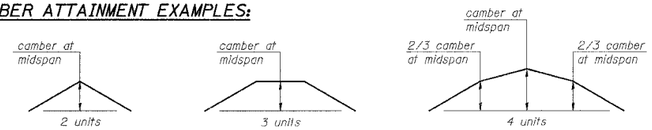
ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".



CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)

NUMBER	REVISION	DATE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A and III-A

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

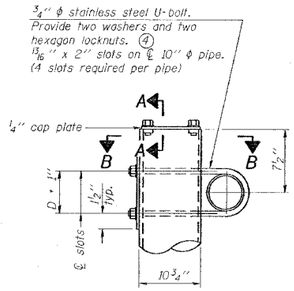
OS4-A-2 1-7-05

PLOT DATE = 12/13/2006
FILE NAME = c:\projects\d9820b2\sht\t3p5.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hawdon

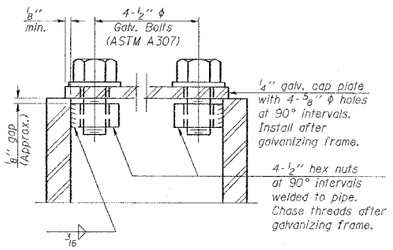
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	756
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

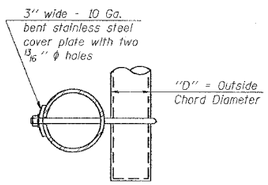


DETAIL A

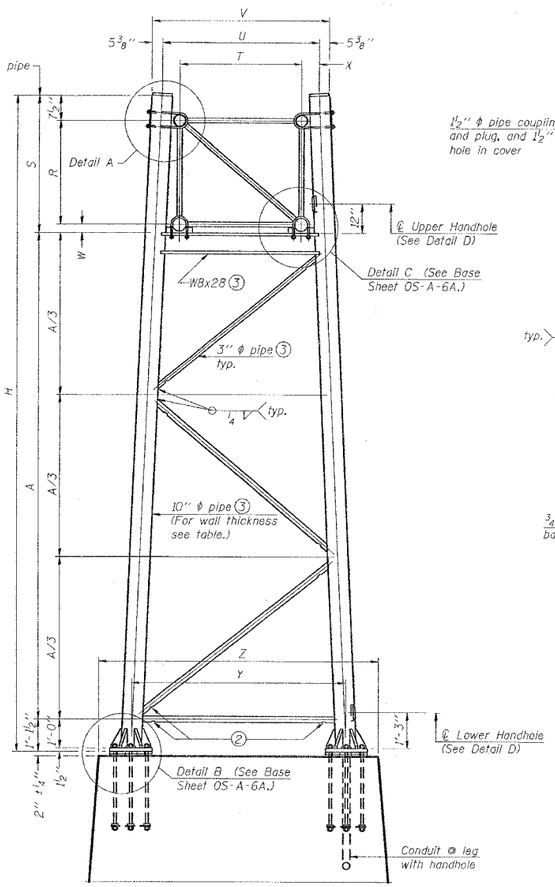


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.

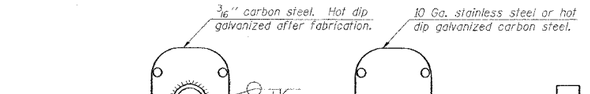


SECTION B-B

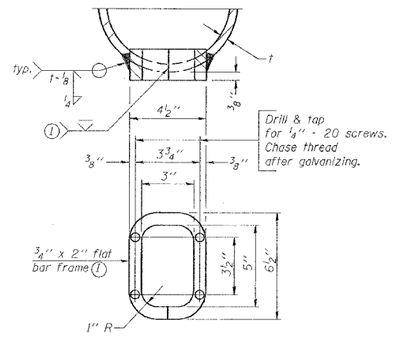


For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

SIDE ELEVATION

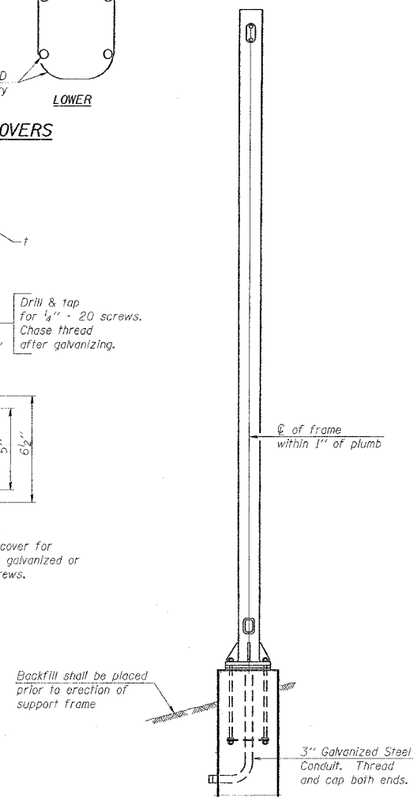


HANDHOLE COVERS



Provide 6½" x 4½" cover.
Provide 4-5/16" ϕ holes in cover for 1/4"-20 round head hot dip galvanized or stainless steel machine screws.
(See cover details)

DETAIL D



END ELEVATION

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

(1) In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.

(2) Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.

(3) Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.

(4) See General Notes for fasteners.

(5) Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

Structure Number	Station	Support Left	Support Right	Truss Type	Pipe Wall Thickness	H	A
9S100I057L52.8	1532+00		X	I-A	.279	25.9	19.15
9S100I057L52.8	1532+00	X		I-A	.279	29.6	22.85

10" ϕ PIPE TRUSS SUPPORT FRAME

Truss Type	Dimensions								
	R	S	T	U	V	W	X	Y	Z
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"	10'-9"
II-A (5)	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"	10'-9"

NUMBER	REVISION	DATE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME for ALUMINUM TRUSS

SCALE: VERT. NONE
HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

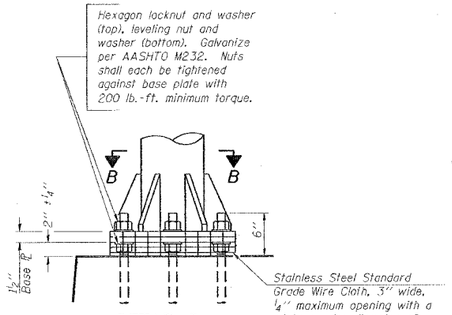
OS-A-6 1-7-05

PLO: DATE = 10/12/2006
FILE NAME = s:\pms_data\d9282802\old13\old13d5.dgn
PLOT SCALE = 60.0000 '/ IN.
USER NAME = hawdon

CONTRACT NO. 98950

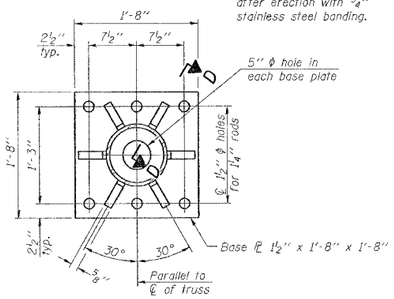
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	757
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

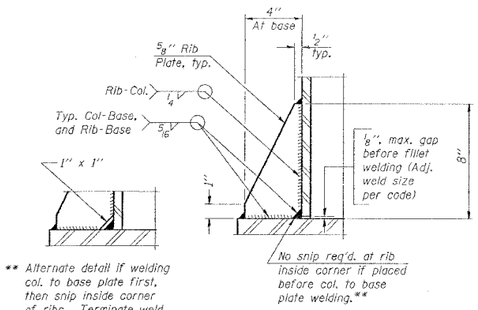


DETAIL B

Ribs shall be cut to fit slope of pipe.

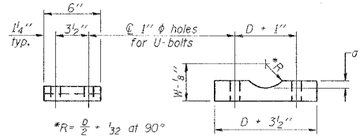


SECTION B-B



** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib ¼" from snip.

SECTION D-D



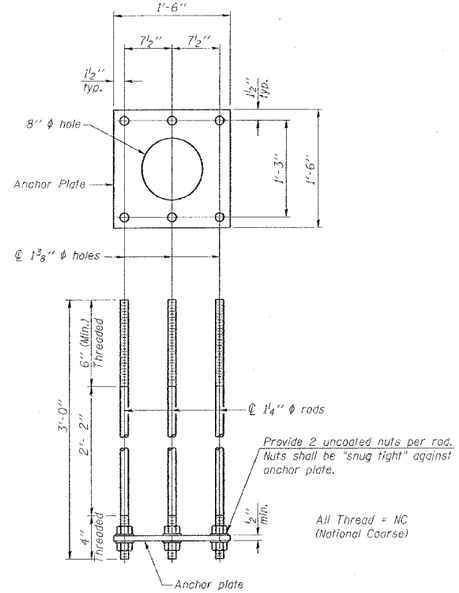
*R = $\frac{a}{2}$ + $\frac{1}{32}$ at 90°

D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.

SADDLE SHIM DETAIL

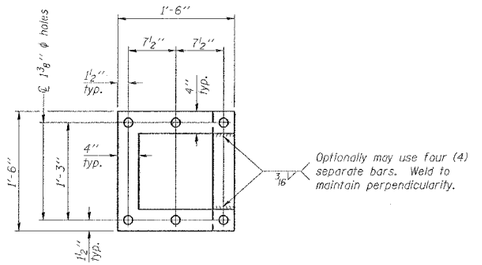
ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

Truss Chord Nominal Dia.	a
5"	¾"
5½"	13/16"
6"	⅞"
6½"	15/16"
7"	1"

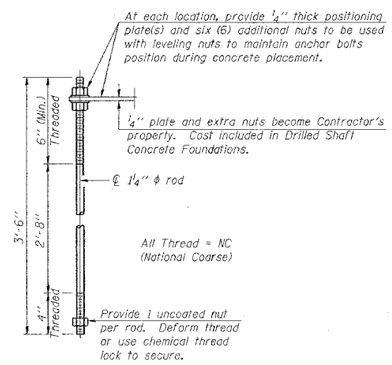


ANCHOR ROD DETAIL

Spread Footing Foundation

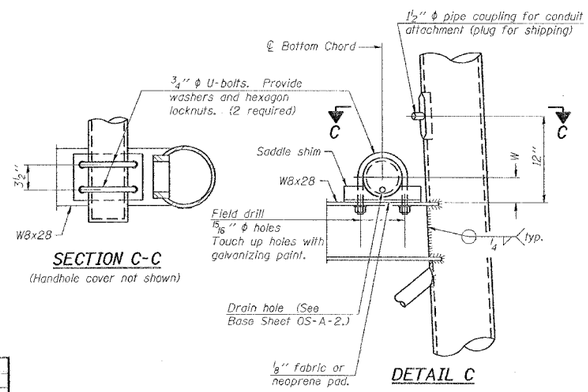


POSITIONING PLATE(S)



ANCHOR ROD DETAIL

Drilled Shaft Foundation



SECTION C-C

(Handhole cover not shown)

DETAIL C

Anchor rods shall conform to AASHTO M314 Grade 36 or 50 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. Galvanize upper 12" per AASHTO M232. No welding shall be permitted on rods.

10" ϕ PIPE SUPPORT FRAME DETAILS

NUMBER	REVISION	DATE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS
ALUMINUM TRUSS

SCALE: VERT. NONE
HORIZ.
DATE

DRAWN BY CNH
CHECKED BY

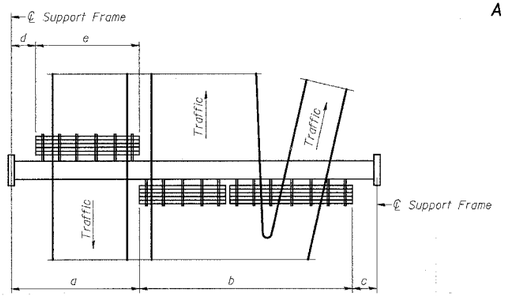
OS-A-6A 1-7-05

PLOT DATE = 10/12/2006
FILE NAME = c:\projects\sh98280z\dist\sh98280z_dist3\olds\t3s5.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hewson

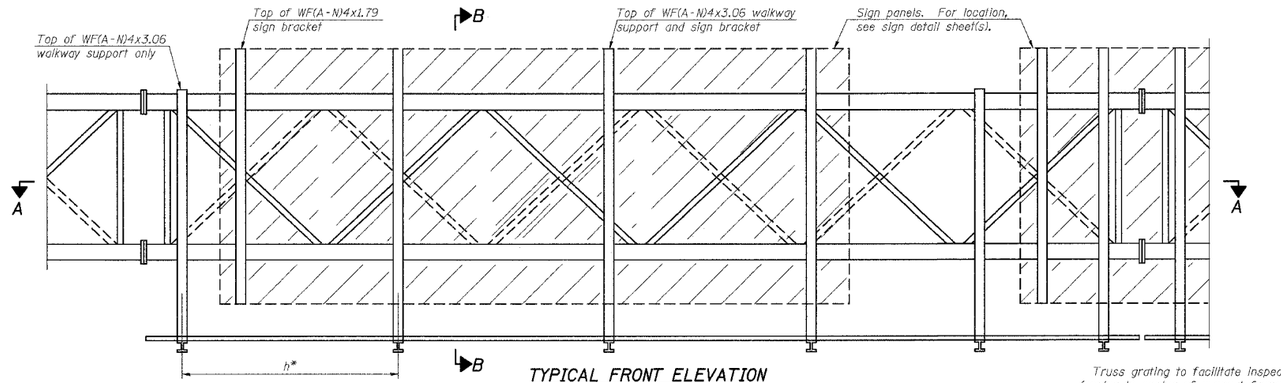
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	758
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

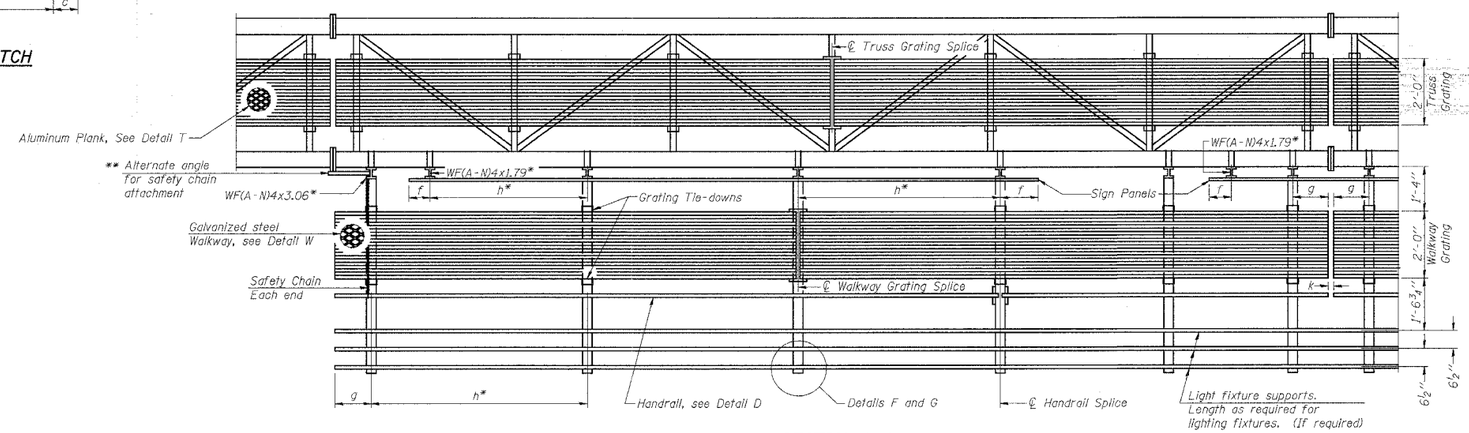


PLAN
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)



TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.
For Section B-B, see Base Sheet OS-A-10.

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating, handrail and light support splices placed as needed.

Walkway and Truss Grating width dimensions are nominal and may vary ±½" based on available standard widths.

Note:
Details shown are considered equal alternatives to the Aluminum Walkway on Base Sheet OS-A-9, and may be substituted by Contractor at no change in contract cost.

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Notes:
* *Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:*

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ℄ of nearest support bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
k = 2" maximum gap between adjacent walkway grating sections and handrail ends

** *If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.*

For Details T and W, Section B-B and Grating Splice Details, see Base Sheet OS-A-10.
For Details D, F, G and P and Handrail Splice Details, see Base Sheet OS-A-11.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
9S100I057L52.8	1532+00	8'	57'	15'	-	-	57'

NUMBER	REVISION	DATE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE WALKWAY DETAILS

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

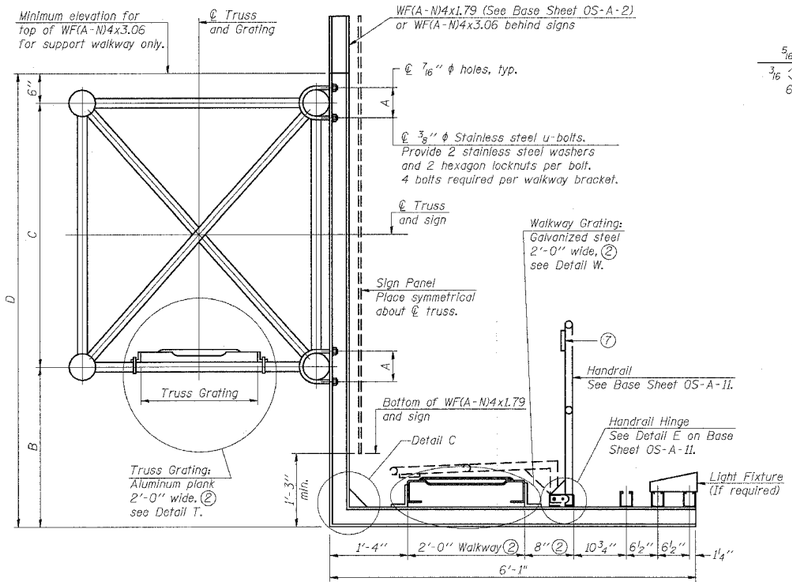
OS-A-9S 1-7-05

PLOT DATE = 12/13/2006
FILE NAME = c:\projects\d9928822\sht\9s35.dgn
PLOT SCALE = 50.8008 '/ IN.
USER NAME = hsadon

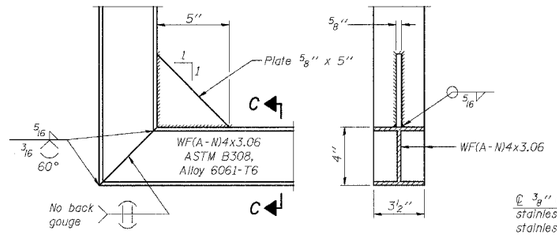
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	759
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

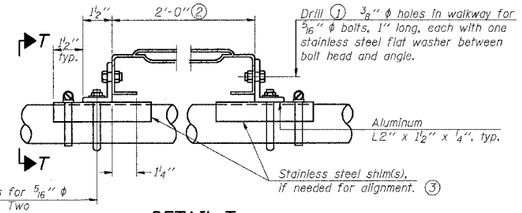


SECTION B-B



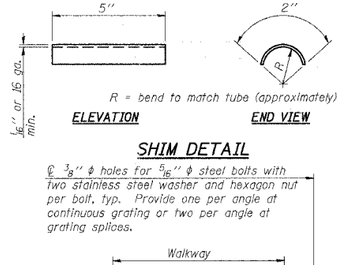
DETAIL C
(See Detail P, on Base Sheet OS-A-11.)

SECTION C-C



℄ 3/8" ϕ holes in angles for 5/16" ϕ stainless steel u-bolts. Two stainless steel washers and hot dip galvanized steel nuts required per bolt. U-bolt and angle connections required at horizontals only.

DETAIL T
(Truss grating at horizontal)

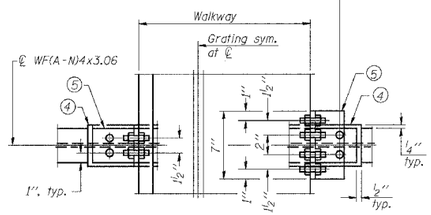


ELEVATION END VIEW

R = bend to match tube (approximately)

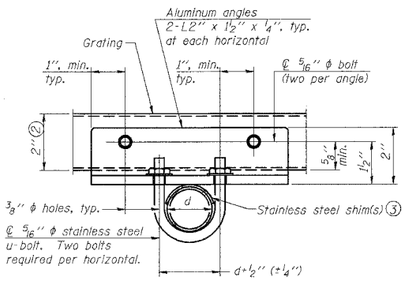
SHIM DETAIL

℄ 3/8" ϕ holes for 5/16" ϕ steel bolts with two stainless steel washer and hexagon nut per bolt, typ. Provide one per angle at continuous grating or two per angle at grating splices.



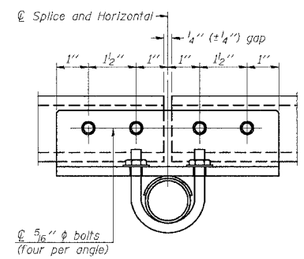
WALKWAY GRATING CONTINUOUS AT WALKWAY GRATING SPLICE

SECTION W-W



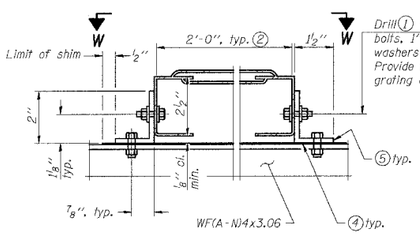
SECTION T-T
(Truss Grating Continuous)

d = outside diameter of horizontal



SECTION T-T
(Truss Grating Splice)

Details not shown same as Section T-T. Alternate splice details and locations may be used subject to the Engineer's review and approval.



DETAIL W
GALVANIZED STEEL WALKWAY GRATING

(1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

(2) Perforated or expanded metal grating providing a skid resistant (non-serrated) surface and capable of supporting a 500 pound concentrated load with a 6'-0" clear span. Walkway and truss grating dimensions are nominal and may vary (width ±1/2", depth ±1/2") based on available standard sizes. Cut ends of grating shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

(3) Stainless steel shims shall be placed under angles at horizontals and horizontal diagonals if needed to compensate for alignment variations and differences in horizontal diagonal pipe sizes beyond adjustment provided by angles. Secure with one stainless steel clamp per location, see "Shim Detail". Thicker shim plates may be used when needed subject to shims performing properly.

(4) 1/16" (or 16 ga.) x 2 1/2" x 4" stainless steel shim adhered to top of WF(A-N)4x3.06 beneath each galvanized angle. Adhesives for shims shall be suitable for materials joined and full exposure conditions.

(5) Galvanized steel L2" x 1 1/2" x 1/4", 3 1/2" long with continuous grating, 7 1/2" long at grating splice.

(6) Details shown are considered equal alternatives to the Aluminum Walkway on Base Sheet OS-A-10 and may be substituted by Contractor at no change in contract cost.

(7) PL 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.

ALUMINUM TRUSS GRATING

Structure Number	Station	A	B	C	D
9S100I057L52.8	1532+00	5 1/2"	6'-6"	4'-6"	11'-6"

NUMBER	REVISION	DATE

OS-A-10S 1-7-05

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE WALKWAY DETAILS

SCALE: VERT. NONE HORIZ.
DATE

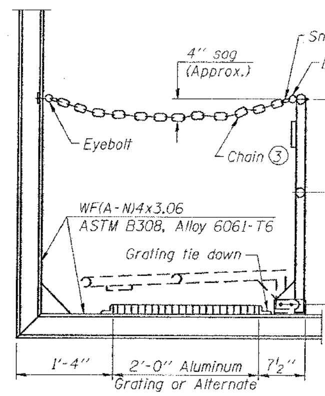
DRAWN BY CNH
CHECKED BY

PLOT DATE = 12/13/2006
FILE NAME = c:\projects\98288c\sld3\sld3p5.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = headon

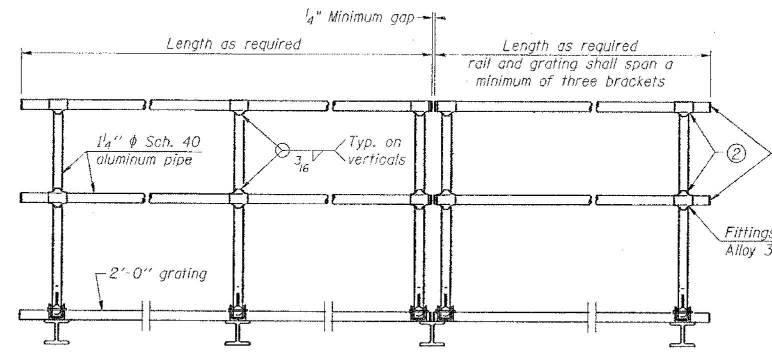
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	760
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



SIDE ELEVATION
(Showing safety chain w/o sign)

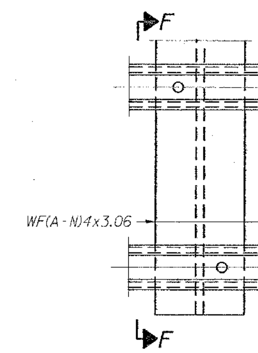


FRONT ELEVATION

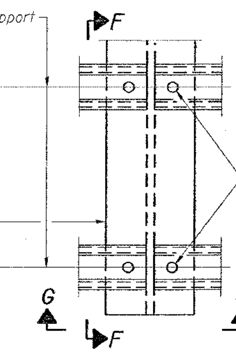
HANDRAIL DETAILS
Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.

① Install standard force-fit end caps or weld ⅛" end plates with ⅛" c.f.w. and grind smooth. (All rail ends)

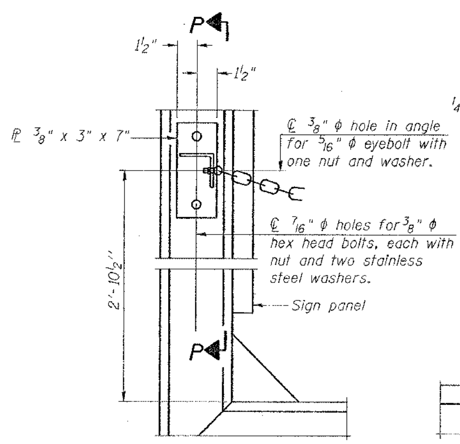
② Horizontal handrail member shall be continuous thru fitting. Provide 7/16" ϕ hole in fitting for ⅜" ϕ bolt. Field drill 7/16" ϕ hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" ϕ holes on top rail at ends only.)



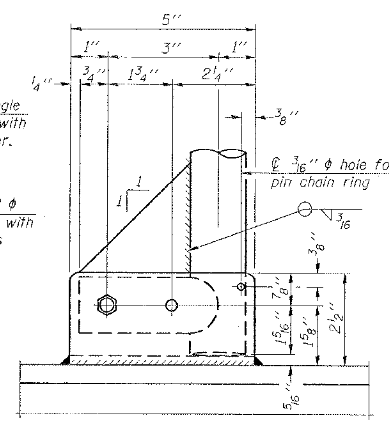
DETAIL F



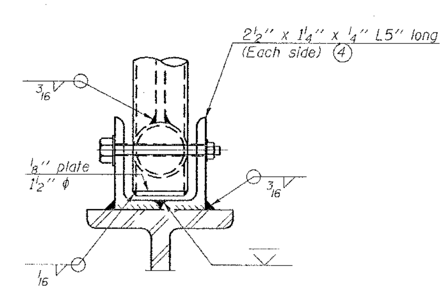
DETAIL G



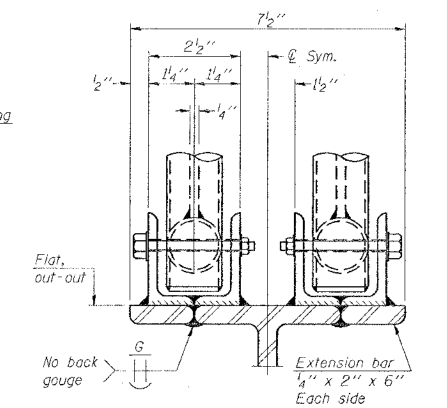
ALTERNATE SAFETY CHAIN ATTACHMENT
(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"



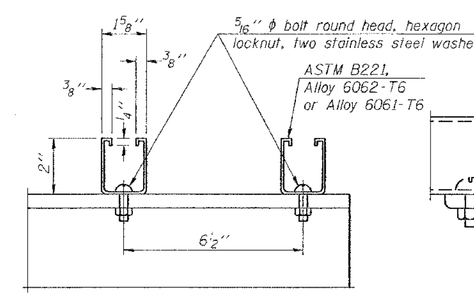
SIDE ELEVATION



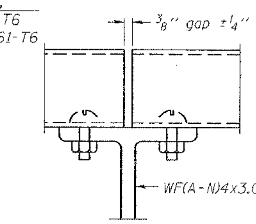
FRONT ELEVATION
See "Elevation" at right for dimensions.



ELEVATION AT HANDRAIL JOINT ④



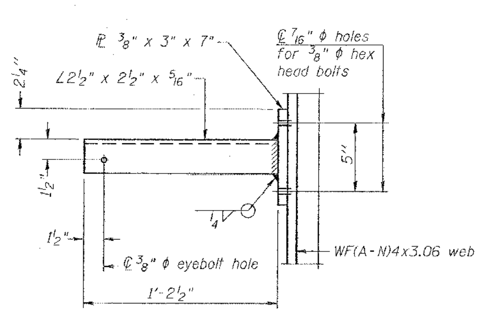
SECTION F-F



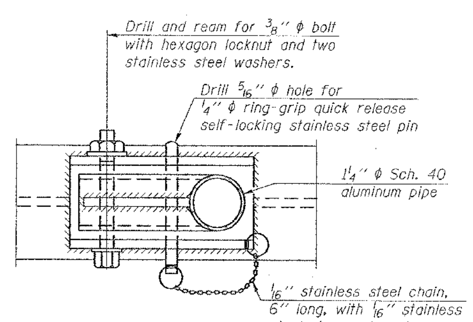
SECTION G-G

LIGHTING FIXTURE MOUNTS (IF REQUIRED)

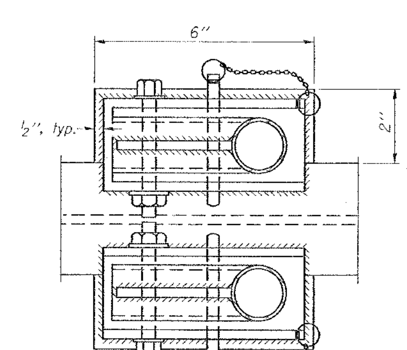
⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



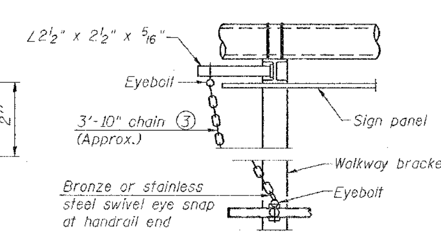
SECTION P-P



PLAN
DETAIL E HANDRAIL HINGE



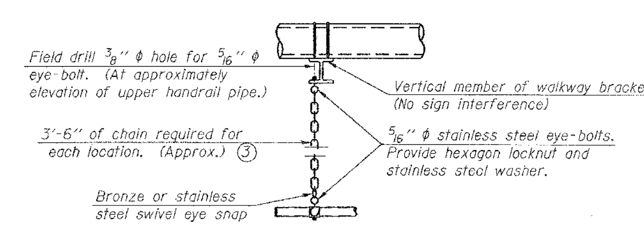
PLAN AT HANDRAIL JOINT
Details not shown same as "PLAN"



ALTERNATE SAFETY CHAIN ATTACHMENT
Details not shown similar to "Safety Chain" Details
(Walkway omitted for clarity)

③ 3/16" galvanized steel chain, approximately 12 links per foot. Chain to be hot dip galvanized after manufacture and suitable for prolonged exterior exposure. Alternate materials may be substituted with the Engineer's approval.

④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.



SAFETY CHAIN
One required for each end of each walkway.

NUMBER	REVISION	DATE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM HANDRAIL DETAILS

SCALE: VERT. HORIZ. NONE
DATE
DRAWN BY CNH
CHECKED BY

OS-A-11 1-7-05

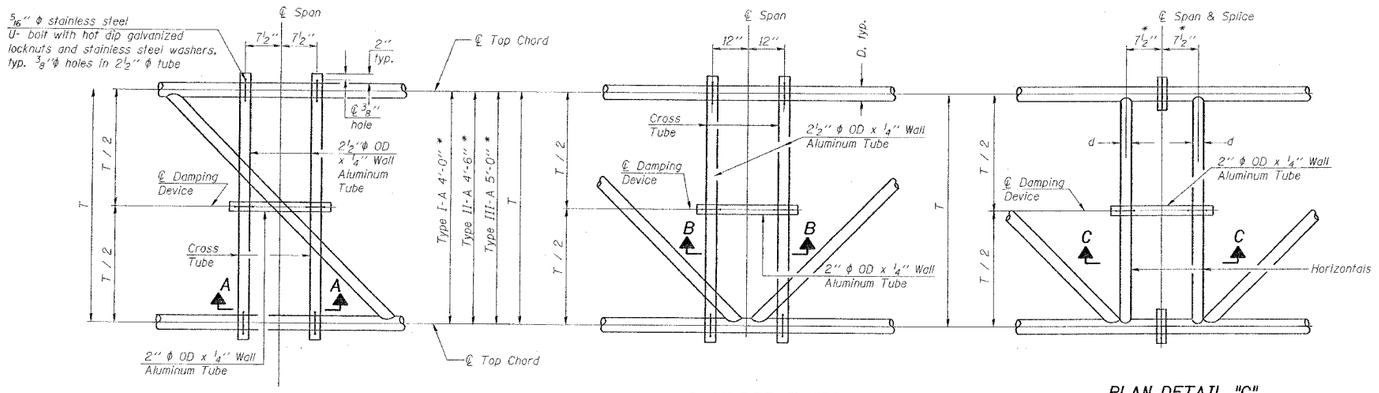
PLOT DATE = 10/12/2006
FILE NAME = c:\projects\d98282\oldl3p5.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = heedon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	761
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

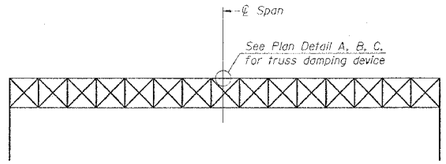
* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.



PLAN DETAIL "A"
℄ Span between Panel Points

PLAN DETAIL "B"
℄ Span at Panel Point

PLAN DETAIL "C"
℄ Span at ℄ Chord Splice

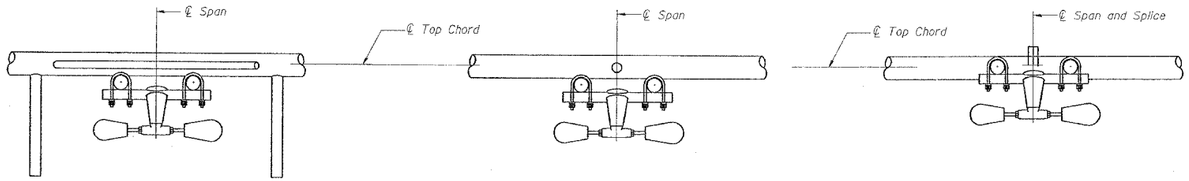


ELEVATION
Aluminum Overhead Sign Truss

NOTES

Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum) Cost included in Overhead Sign Structure...

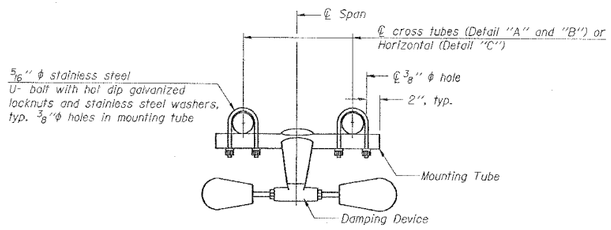
Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



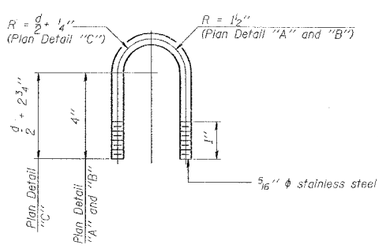
SECTION A-A

SECTION B-B

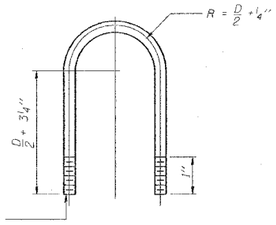
SECTION C-C



TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE DAMPING DEVICE

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

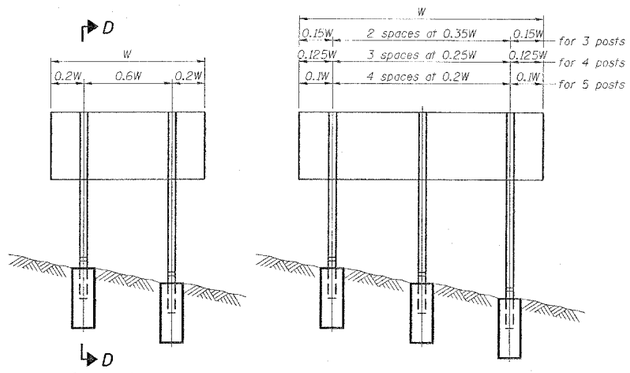
OS-A-D 1-7-05

P.
DATE = 10/12/2006
FILE NAME = c:\projects\sp920202\sheets\os-a-d.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = heaston

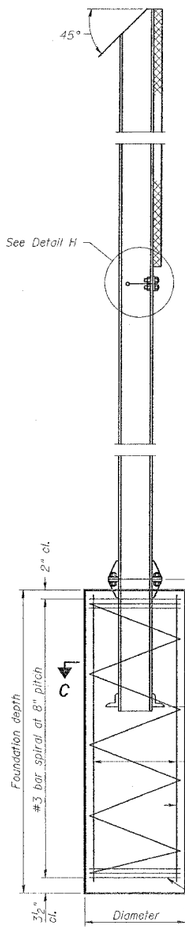
CONTRACT NO. 98950

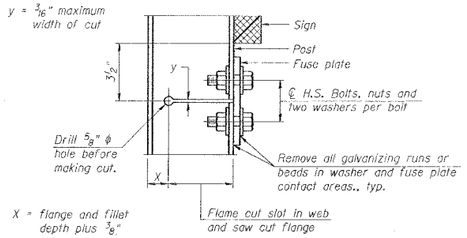
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	762
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

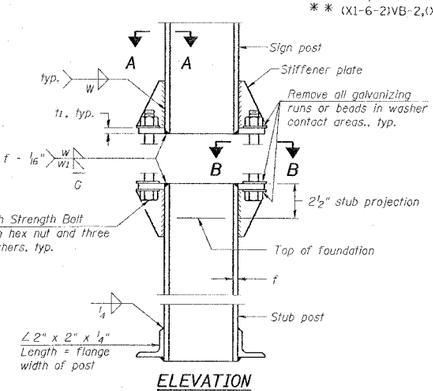


ELEVATION

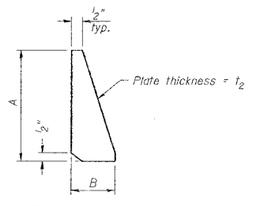




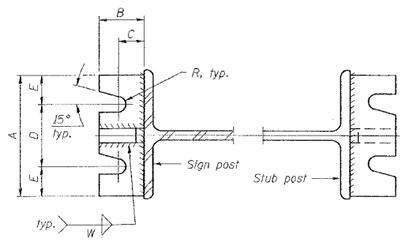
DETAIL H



ELEVATION
SIGN POST & STUB POST

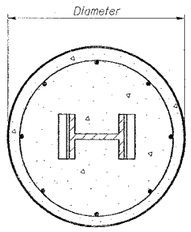


STIFFENER PLATE DETAIL
(See table for dimensions.)

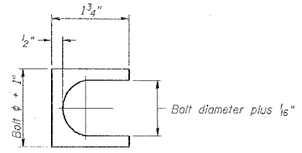


SECTION A-A SECTION B-B

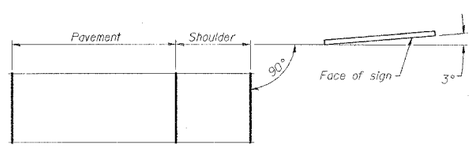
SECTION D-D



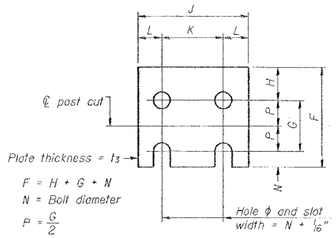
SECTION C-C



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



LOCATION SKETCH



FUSE PLATE DETAIL
(Install with notches down.)

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"

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 505.04(f)(3), 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.

NUMBER	REVISION	DATE

BAW-A-1 1-7-05

PLT. DATE = 10/12/2005
FILE NAME = c:\projects\1492802\v1d1\v1d1dgn3a5.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = Hoskin

(Sheet 1 of 2)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

CONTRACT NO. 98950

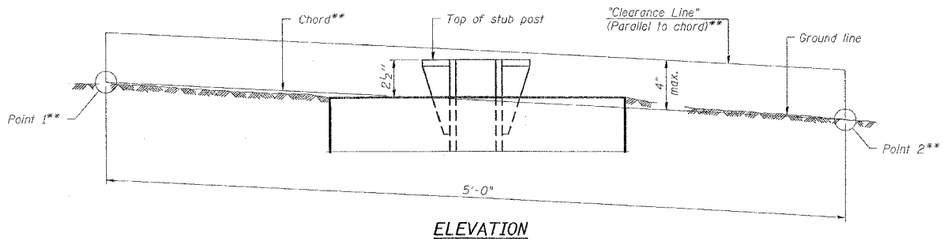
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	763
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA			
	Foundation			Reinforcement																	
	Diameter	*Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. (2)	Stub Post 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"	1¼"	4"	2¼"	7⅛"	½"
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"	1¼"	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"	5⅜"	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 Depth												
	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"
W6x9	½" x 1½"	½" x 1½"	½" x 1½"	⅝" x 1¾"	⅝" x 1¾"	⅝" x 1¾"	——	——	——	——	——	——	——
W6x15	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	⅞" x 2"	⅞" x 2"	——	——	——
W8x18	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	⅞" x 2¼"	⅞" x 2¼"	⅞" x 2¼"	⅞" x 2¼"	⅞" x 2¼"	⅞" x 2¼"
W10x22	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	⅞" x 2¼"	⅞" x 2¼"	⅞" x 2½"	1" x 2½"	1" x 2¾"	1" x 2¾"
W10x26	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1⅛" x 3"
W12x26	——	——	——	——	——	⅝" x 2¼"	——	——	⅞" x 2½"	⅞" x 2½"	1" x 2½"	1" x 2¾"	1" x 2¾"
W14x30	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	⅞" x 2½"	1" x 2½"	1" x 2¾"	1" x 2¾"
W14x38	——	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	¾" x 2¼"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2½"	1" x 2¾"
W16x45	——	——	——	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2¼"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	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.

(Sheet 2 of 2)

NUMBER	REVISION	DATE

BAW-A-2 1-7-05

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/12/2006
FILE NAME = c:\projects\d98280\d13\old13b5.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = Headson

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	764
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

N

100′ 0 50′ 100′

RT. STA. 14+50 NEW RAMP "EE"
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

RT. STA. 16+00 NEW RAMP "EE"
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

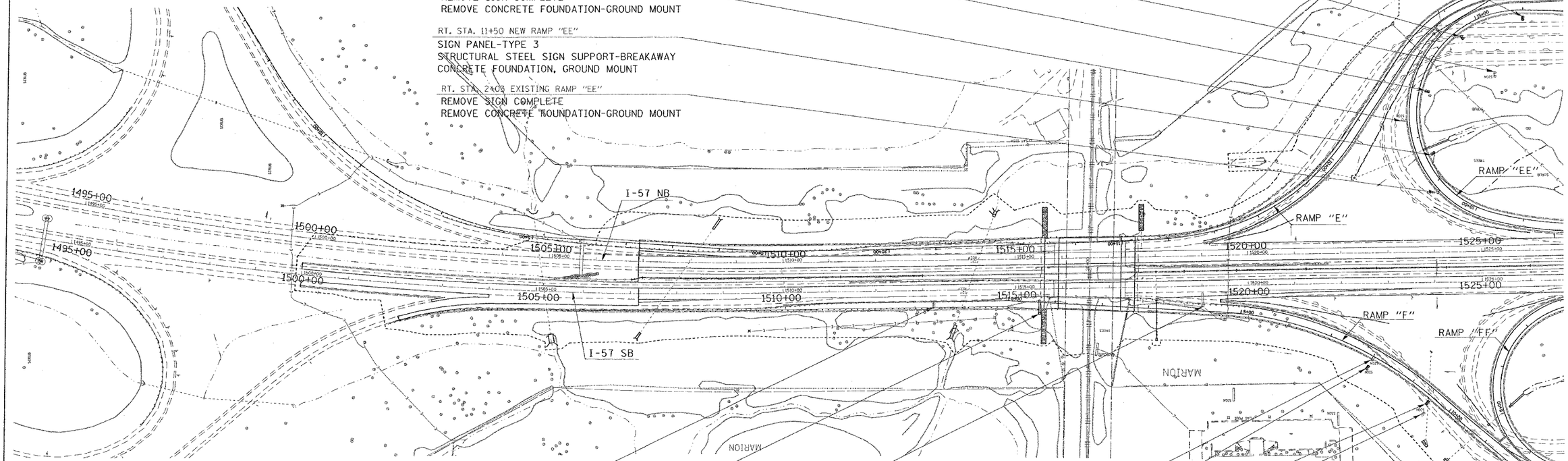
RT. STA. 6+90 EXISTING RAMP "EE"
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

RT. STA. 13+00 NEW RAMP "EE"
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

RT. STA. 4+10 EXISTING RAMP "EE"
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

RT. STA. 11+50 NEW RAMP "EE"
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

RT. STA. 2+05 EXISTING RAMP "EE"
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT



RT. STA. 1513+20
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

STA. 1515+50
SIGN PANEL-TYPE 3
DRILLED SHAFT CONCRETE FOUNDATIONS
OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE II-C-A (36" X 5'-6")
OVERHEAD SIGN WALKWAY, CANTILEVER, TYPE A

STA. 1519+00
REMOVE SIGN COMPLETE
REMOVE OVERHEAD SIGN STRUCTURE-CANTILEVER
REMOVE CONCRETE FOUNDATION-OVERHEAD

RT. STA. 2+60 EXISTING RAMP "F"
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

RT. STA. 8+00 NEW RAMP "F"
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

RT. STA. 9+50 NEW RAMP "F"
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

RT. STA. 4+25 EXISTING RAMP "F"
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

RT. STA. 11+50 NEW RAMP "F"
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

RT. STA. 6+40 EXISTING RAMP "F"
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN LOCATION
FAI-57 AND OLD IL 13 (9629)
SHEET 1 OF 2

SCALE: VERT. 100 HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/12/2006
FILE NAME = z:\proj_prelim\d9629B2\old13\old13sb.dgn
PLOT SCALE = 100.0000 ' / IN.
USER NAME = hamden

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	765
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

LT. STA. 772+75 OLD IL 13
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

RT. STA. 17+50 NEW RAMP "EE"
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

RT. STA. 8+95 EXISTING RAMP "EE"
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

LT. STA. 773+50 OLD IL 13
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

RT. STA. 771+90 OLD IL 13
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

RT. STA. 771+50 OLD IL 13
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

STA. 1527+40 I-57
REMOVE SIGN COMPLETE
REMOVE OVERHEAD SIGN STRUCTURE-SPAN
REMOVE CONCRETE FOUNDATION-OVERHEAD

STA. 1532+00 I-57
SIGN PANEL-TYPE 3
CONCRETE FOUNDATIONS
DRILLED SHAFT CONCRETE FOUNDATIONS
OVERHEAD SIGN STRUCTURE-SPAN, TYPE I-A (4'-0" X 4'-6")
OVERHEAD SIGN WALKWAY, TYPE A

LT. STA. 1535+00 I-57
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

LT. STA. 1535+30 I-57
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

LT. STA. 1540+10 I-57
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

LT. STA. 1545+43 I-57
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

LT. STA. 1545+50 I-57
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

RAMP "E"
RAMP "EE"
OLD IL 13
I-57 NB
I-57 SB
RAMP "F"
RAMP "FF"

LT. STA. 764+00 OLD IL 13
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

RT. STA. 763+25 OLD IL 13
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

LT. STA. 763+25 OLD IL 13
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

RT. STA. 761+50 OLD IL 13
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

RT. STA. 13+00 NEW RAMP "F"
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

RT. STA. 8+10 EXISTING RAMP "F"
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

RT. STA. 14+40 NEW RAMP "F"
SIGN PANEL-TYPE 3
STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT

RT. STA. 9+35 EXISTING RAMP "F"
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION-GROUND MOUNT

N S
100' 0 50' 100'

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN LOCATION
FAI-57 AND OLD IL 13 (9629)
SHEET 2 OF 2

SCALE: VERT. 100 HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

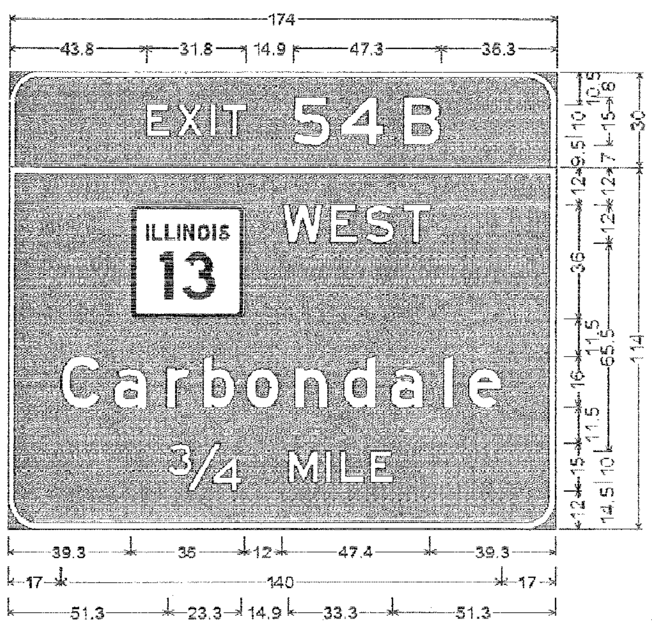
PLOT DATE = 12/12/2005
FILE NAME = c:\projects\sh9628\2\old13\old13x5.dgn
PLOT SCALE = 100.0000 '/ IN.
USER NAME = hreedon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	766
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

1. A



9.0" Radius, 2.0" Border, White on Green;
"EXIT" E Mod; "54B" E Mod;
9.0" Radius, 2.0" Border, White on Green;
"WEST" E Mod; "Carbondale" E Mod; "3/4" E Mod; "MILE" E Mod;
Table of widths and spaces.

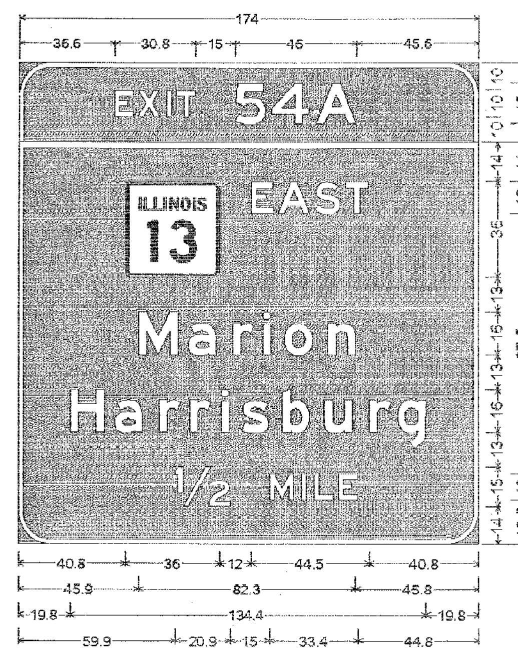
43.8	E 7.4	2.1	X 8.6	2.1	I 2.0	2.1	T 7.4	15.0	5 12.0	3.0	4 13.9	6.4	B 11.9	36.3

39.3	(shield) 36.0	12.0	W 12.6	2.5	E 8.9	2.5	S 9.5	2.5	T 8.9	39.3

17.0	C 12.6	4.3	a 10.3	6.1	r 7.9	3.8	b 10.3	3.5	o 10.6	5.0	n 10.4	4.9	d 10.4	4.9	a 10.3	6.1	l 3.0	5.0	e 10.4	17.0

51.3	3/4 23.3	14.9	M 9.3	2.5	I 2.0	2.6	L 7.4	2.0	E 7.5	51.3

1.B



12.0" Radius, 2.0" Border, White on Green;
"EXIT" E Mod 2K; "54A" E Mod 2K;
12.0" Radius, 2.0" Border, White on Green;
"EAST" E Mod 2K; "Marion" E Mod 2K; "Harrisburg" E Mod 2K;
" ½ MILE" E Mod 2K;
Table of widths and spaces.

36.6	E 7.4	1.4	X 8.6	2.1	I 2.1	1.8	T 7.4	15.0	5 12.1	2.1	4 14.0	2.6	A 15.3	45.5

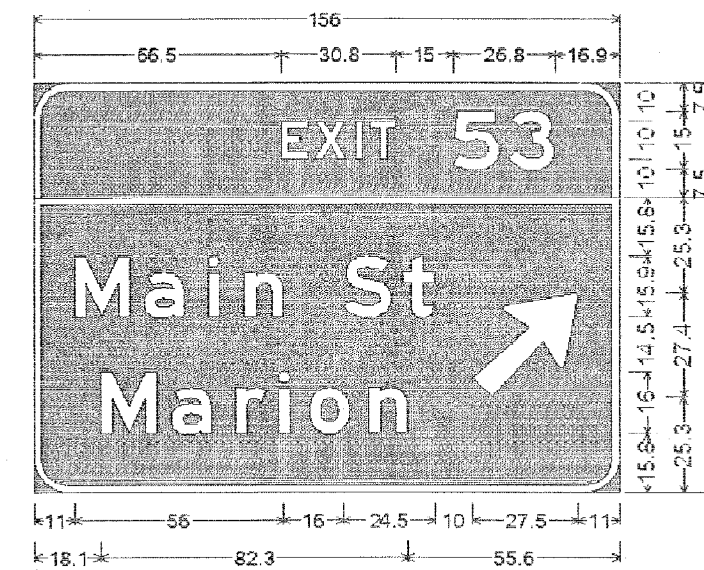
40.8	(shield) 36.0	12.0	E 8.9	1.3	A 12.0	1.9	S 9.6	1.9	T 8.9	40.8

45.9	M 14.9	4.0	a 10.5	6.4	r 8.0	3.9	i 3.1	5.0	o 10.9	5.0	n 10.5	45.9

19.8	H 13.0	4.0	a 10.5	6.4	r 8.0	3.9	r 8.0	3.8	i 3.3	4.5	s 10.6	5.0	b 10.5	5.0	u 10.5	6.5	r 8.0	2.4	g 10.5	19.8

59.9	½ 20.9	15.0	M 9.4	2.8	I 1.9	2.8	L 7.4	1.6	E 7.4	44.9

1. C



9.0" Radius, 2.0" Border, White on Green;
"EXIT" E Mod 2K; "53" E Mod 2K;
9.0" Radius, 2.0" Border, White on Green;
"Main St" E Mod 2K; "Marion" E Mod 2K;
Table of widths and spaces.

66.5	E 7.4	1.4	X 8.8	2.0	I 2.0	1.8	T 7.4	15.0	5 12.1	2.5	3 12.1	17.0

11.0	M 14.9	4.0	a 10.5	6.5	i 3.1	6.5	n 10.5	16.0	S 13.0	3.1	t 8.4

10.0	(arrow) 27.5	11.0

18.1	M 14.9	4.0	a 10.5	6.5	r 8.0	3.8	i 3.3	4.9	o 10.9	4.9	n 10.5	55.8

PLOT DATE = 10/12/2006
FILE NAME = c:\projects\d902802\old13\old13signs.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = heedon

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN PANELS

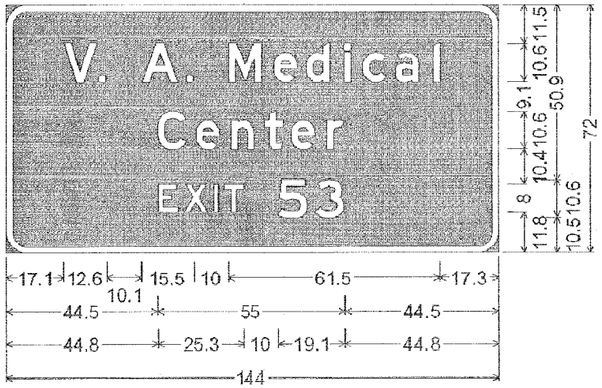
SCALE: VERT. HORIZ. NO SCALE
DATE
DRAWN BY
CHECKED BY

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	767
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

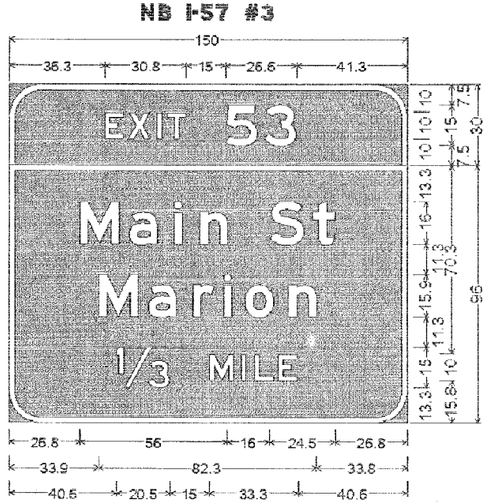
SIGN 2
NB I-57



6.0" Radius, 2.0" Border, White on Green;
"V." E Mod; "A." E Mod; "Medical" E Mod;
"Center" E Mod; "EXIT" E Mod; "53" E Mod;
Table of widths and spaces.

17.1	V 9.8	0.8	. 2.1	10.0	A 10.6	2.8	. 2.1										
	M 10.0	9.9	3.6	e 6.9	2.5	d 7.0	4.0	i 2.0	3.4	c 6.8	2.5	a 6.9	4.0	l 2.0	17.3		
44.5	C 8.5	2.9	e 6.9	3.4	n 6.9	3.0	t 5.4	2.4	e 7.0	3.3	r 5.3	44.5					
44.8	E 5.9	1.6	X 7.0	1.6	I 1.6	1.6	T 6.0	10.0	5 8.5	2.1	3 8.6	44.8					

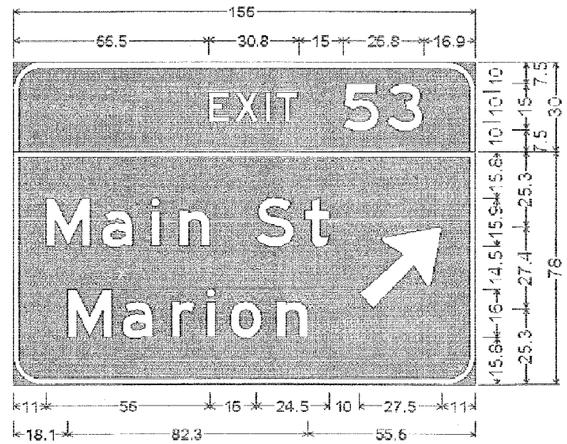
NB I-57 #3



12.0" Radius, 2.0" Border, White on Green;
"EXIT" E Mod 2K; "53" E Mod 2K;
12.0" Radius, 2.0" Border, White on Green;
"Main St" E Mod 2K; "Marion" E Mod 2K;
"1/3" E Mod 2K; "MILE" E Mod 2K;
Table of widths and spaces.

36.3	E 7.4	1.4	X 8.6	2.1	I 2.0	1.9	T 7.4	15.0	5 12.1	2.4	3 12.1	41.3					
26.8	M 14.9	4.0	a 10.5	6.4	i 3.3	6.3	n 10.5	16.0	S 13.0	3.3	t 8.3	26.8					
33.9	M 14.9	4.0	a 10.5	6.4	r 8.0	3.9	i 3.1	5.0	e 10.9	5.0	n 10.5	33.9					
40.6	1/3 20.5	15.0	M 9.3	2.8	i 2.0	2.8	L 7.4	1.5	E 7.4	40.6							

SB I-57 #4



9.0" Radius, 2.0" Border, White on Green;
"EXIT" E Mod 2K; "53" E Mod 2K;
9.0" Radius, 2.0" Border, White on Green;
"Main St" E Mod 2K; "Marion" E Mod 2K;
Table of widths and spaces.

66.5	E 7.4	1.4	X 8.8	2.0	I 2.0	1.8	T 7.4	15.0	5 12.1	2.5	3 12.1	17.0					
11.0	M 14.9	4.0	a 10.5	5.5	i 3.1	6.5	n 10.5	16.0	S 13.0	3.1	t 8.4						
	10.0	27.5	11.0														
18.1	M 14.9	4.0	a 10.5	6.5	r 8.0	3.8	i 3.3	4.9	e 10.9	4.9	n 10.5	55.8					

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN PANELS

SCALE: VERT. NO SCALE
HORIZ.
DATE
DRAWN BY
CHECKED BY

PLOT DATE = 10/12/2006
FILE NAME = c:\projects\d52802\old13\old13signs.dgn
FILE SIZE = 24.0KB
USER NAME = Reuser

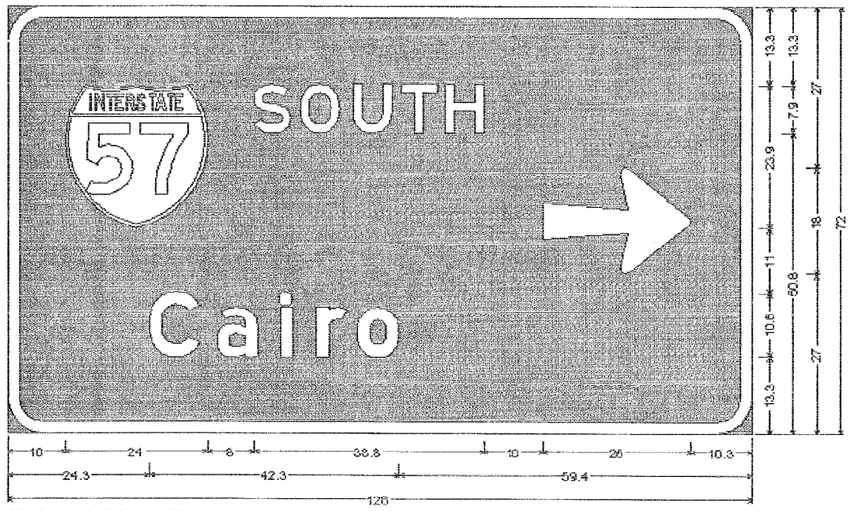
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	768
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

#5

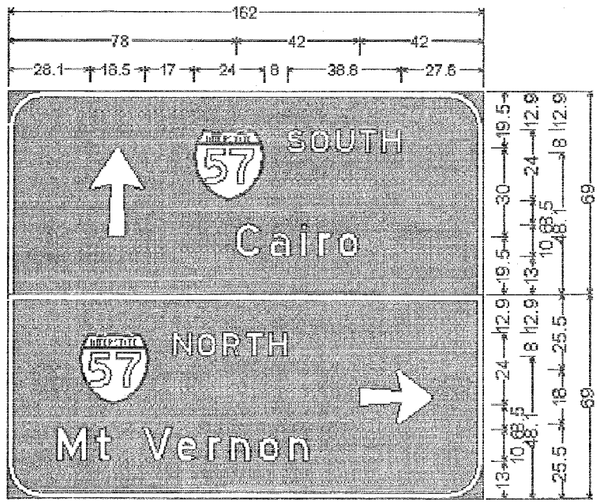
WB Old IL-13 Xover



6.0" Radius, 2.0" Border, White on Green;
Interstate 57 M1-1; "SOUTH" E Mod; "Cairo" E Mod;
Table of widths and spaces.

10.0	⇧ 24.0	6.0	S 6.4	1.6	O 6.8	2.0	U 6.4	1.6	T 5.9	1.6	H 6.6	10.6	⇨ 26.0	10.3													
24.3	c 8.4	2.9	e 6.8	4.1	i 2.0	4.1	r 5.3	1.5	o 7.1	59.5																	

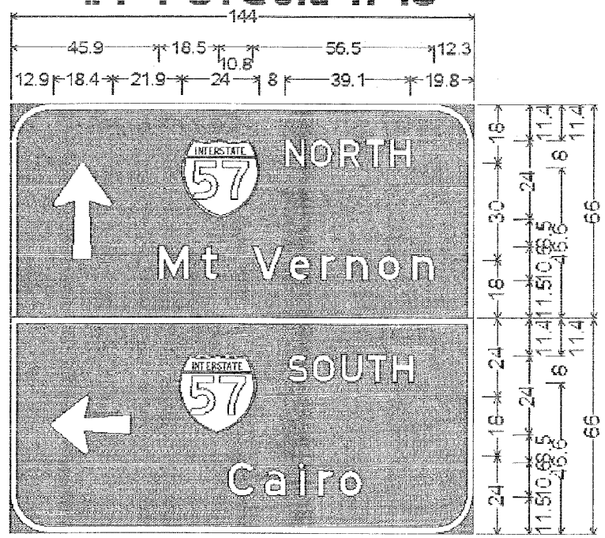
#6 I-57@old Il 13



12.0" Radius, 2.0" Border, White on Green;
"SOUTH" E Mod; "Cairo" E Mod;
12.0" Radius, 2.0" Border, White on Green;
"NORTH" E Mod; "Mt Vernon" E Mod;
Table of widths and spaces.

28.1	⇧ 18.5	17.0	⇩ 24.0																								
				S 8.0	6.4	1.6	O 6.8	2.0	U 6.4	1.6	T 6.0	1.6	H 6.4	27.6													
78.0	c 8.5	2.9	e 6.6	4.1	i 2.0	4.1	r 5.3	1.5	o 7.0	42.0																	
24.5	⇩ 24.0			8.0	N 6.4	2.0	O 6.8	2.0	R 6.4	1.6	T 6.0	1.6	H 6.4														
		24.3	⇨ 25.0	17.0																							
17.1	M 9.9	3.4	t 5.4																								
				V 10.6	9.8	1.9	e 6.8	3.3	r 5.1	2.5	n 6.9	3.3	o 6.9	3.3	n 6.8	59.0											

#7 I-57@old Il 13



12.0" Radius, 2.0" Border, White on Green;
"NORTH" E Mod; "Mt Vernon" E Mod;
12.0" Radius, 2.0" Border, White on Green;
"SOUTH" E Mod; "Cairo" E Mod;
Table of widths and spaces.

12.9	⇧ 18.4	21.9	⇩ 24.0																								
				N 8.0	6.4	2.0	O 6.6	2.1	R 6.4	1.6	T 6.0	1.6	H 6.4	19.8													
45.9	M 9.8	3.4	t 5.4																								
				V 10.6	9.8	1.8	e 6.8	3.4	r 5.1	2.5	n 6.9	3.3	o 6.9	3.3	n 6.8	12.3											
12.4	⇦ 25.0	15.0	⇩ 24.0																								
				S 10.0	6.4	1.6	O 6.6	2.1	U 6.4	1.6	T 6.0	1.6	H 6.4	16.9													
67.8	c 8.4	2.9	e 6.8	4.0	i 2.0	4.1	r 5.3	1.5	o 7.0	34.3																	

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN PANELS

SCALE: VERT. NO SCALE
HORIZ.
DATE

DRAWN BY
CHECKED BY

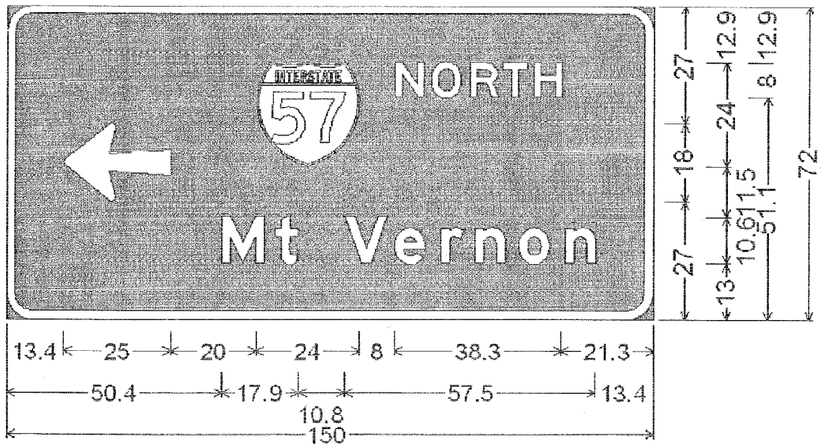
PLOT DATE = 10/12/2006
FILE NAME = c:\projects\98268\vol3\vol3signs.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hasdon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	769
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

#8 EB Old IL-13

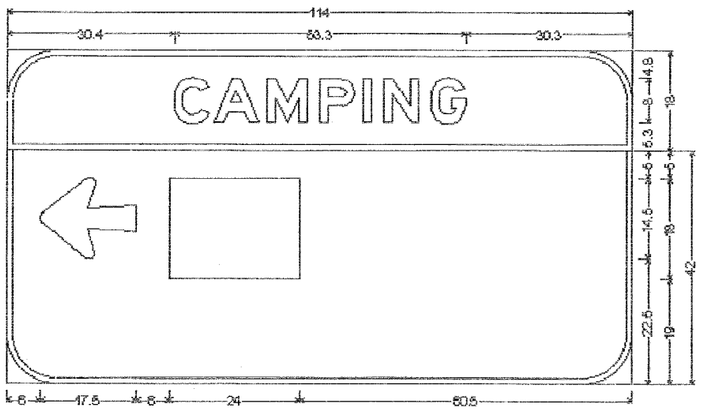


6.0" Radius. 2.0" Border. White on Green:
"NORTH" E Mod 2K: "Mt Vernon" E Mod 2K:
Table of widths and spaces.

13.4	25.0	20.0	24.0																
				N		O		R		T		H							
				8.0	6.5	1.9	6.8	1.9	6.4	0.9	5.9	1.5	6.4	21.4					
50.4	M		t																
	9.9	2.5	5.5																
				V		e		r		n		e		n					
	10.8	9.8	1.5	7.0	3.4	5.3	2.5	7.1	3.3	7.3	3.3	7.0	13.4						

CSa

#9 I-57RAMP F

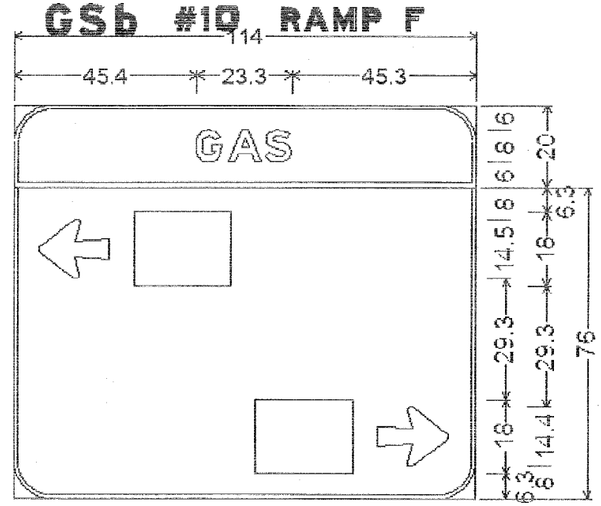


9.0" Radius, 1.0" Border, White on Blue;
"CAMPING" E Mod 2K;
9.0" Radius, 1.0" Border, White on Blue;
Untitle1;
Table of letter and object lefts.

C	A	M	P	I	N	G
30.4	37.8	47.4	57.0	64.9	69.8	77.1

6.0	29.5

GSb #10 RAMP F



9.0" Radius, 1.0" Border, White on Blue;
"GAS" E Mod 2K;
9.0" Radius, 1.0" Border, White on Blue;
Untitle1; Untitle1;
Table of widths and spaces.

45.4	G	1.1	A	1.3	S	45.3
	6.4		8.1		5.4	

6.3	17.5	6.0	24.0	60.3

59.8	24.0	6.0	17.5	5.8

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN PANELS

SCALE: VERT. NO SCALE
HORIZ.
DATE
DRAWN BY
CHECKED BY

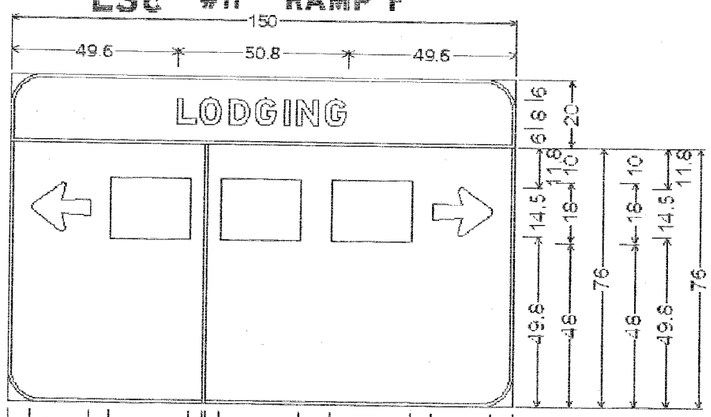
PLOT DATE = 10/12/2006
FILE NAME = s:\projects\vf82802\vld13\vld13signs.dgn
PLOT SCALE = 60.0000 '/ IN.
USER NAME = headen

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	770
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

LSc #11 RAMP F

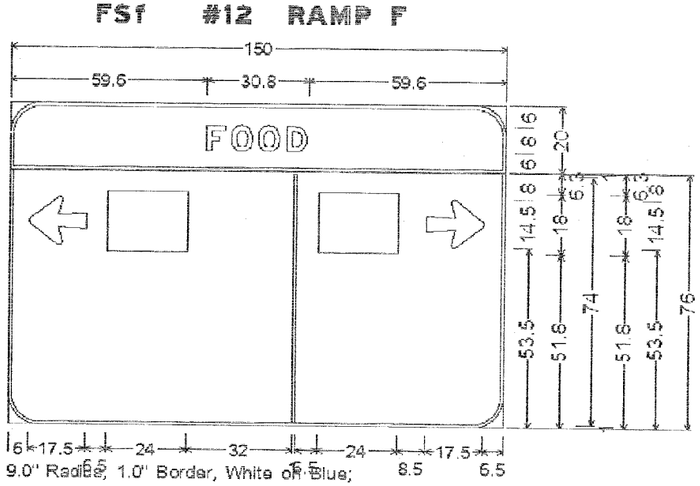


9.0" Radius, 1.0" Border, White on Blue;
"LODGING" E Mod 2K;
9.0" Radius, 1.0" Border, White on Blue;
Untitle1; Untitle1;
Table of widths and spaces.

49.6	L	6.0	0.9	O	6.8	1.9	D	6.5	1.5	G	6.5	2.0	I	1.5	2.3	N	6.5	1.9	G	6.5	49.6

6.5	⇦	17.5	6.0	□	24.0	4.0	|	1.0	4.0	□	24.0	9.0	□	24.0	6.0	⇨	17.5	6.5

FSf #12 RAMP F

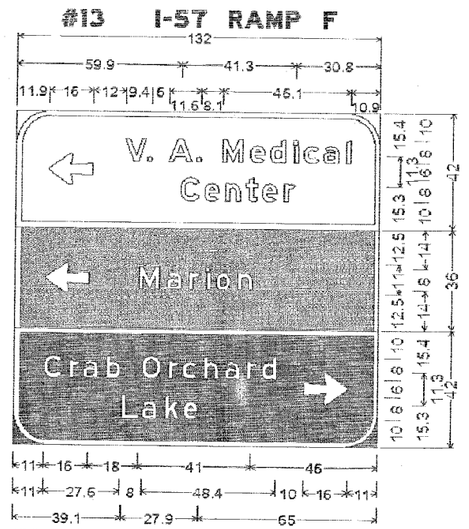


9.0" Radius, 1.0" Border, White on Blue;
"FOOD" E Mod 2K;
9.0" Radius, 1.0" Border, White on Blue;
Untitle1; Untitle1;
Table of widths and spaces.

59.6	F	6.0	1.4	O	6.5	1.5	O	6.8	1.9	D	6.5	59.6						

6.0	⇦	17.5	6.5	□	24.0	32.0	|	1.0	6.5	□	24.0	8.5	⇨	17.5	6.5

#13 I-57 RAMP F



12.0" Radius, 2.0" Border, White on Blue;
"V." E Mod; "A." E Mod; "Medical" E Mod;
"Center" E Mod;
3.0" Radius, 2.0" Border, White on Green;
"Marion" E Mod;
12.0" Radius, 2.0" Border, White on Brown;
"Crab" E Mod; "Orchard" E Mod; "Lake" E Mod;
Table of widths and spaces.

11.9	⇦	16.0	12.0	V	7.3	0.5	.	1.5	6.0	A	8.0	2.1	.	1.6																
	8.0	M	7.4	2.8	e	5.1	1.9	d	5.1	3.1	l	1.5	2.5	c	5.1	1.9	a	5.1	3.1	l	1.5	10.9								
59.9	C	6.4	2.1	e	5.3	2.4	n	5.3	2.1	f	4.1	1.9	e	5.1	2.5	r	4.0	30.9												
11.0	⇦	15.0																												
	18.0	M	7.4	2.6	a	5.3	3.0	r	3.9	1.9	l	1.5	2.5	o	5.3	2.5	n	5.1	46.0											
11.0	C	6.4	2.6	r	4.0	1.1	a	5.3	3.0	k	5.3																			
	7.9	O	6.6	2.8	r	3.9	1.3	c	5.0	2.5	h	5.3	2.4	a	5.1	3.1	r	4.0	1.1	d	5.3									
	10.0	⇨	15.0	11.0																										
39.1	L	5.9	1.6	a	5.1	3.1	k	5.3	1.6	e	5.3	65.0																		

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN PANELS

SCALE: VERT. NO SCALE HORIZ.
DATE
DRAWN BY
CHECKED BY

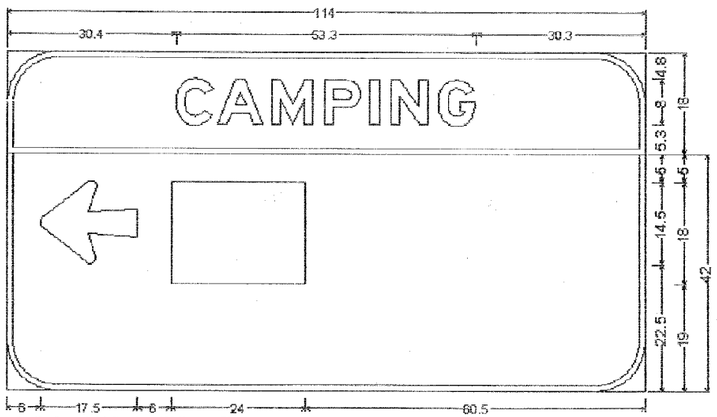
PLOT DATE = 10/12/2006
FILE NAME = c:\projects\98288\sht\sht3signs.dgn
PLOT SCALE = 1.000000 ' / IN.
USER NAME = hawkins

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	771
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)V8-2,(X1-6)NBK-2

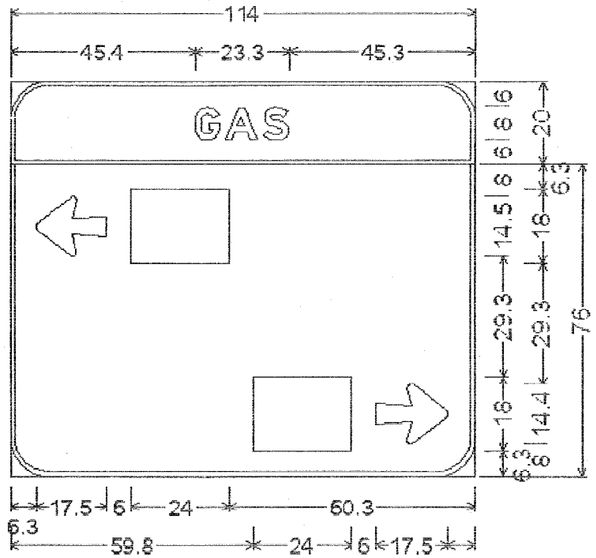
CSa
#14 I-57 RAMP EE



9.0" Radius, 1.0" Border, White on Blue;
"CAMPING" E Mod 2K;
9.0" Radius, 1.0" Border, White on Blue;
Untitle1;
Table of widths and spaces.

30.4	C 6.5	0.9	A 8.1	1.4	M 7.5	2.3	P 6.4	1.4	I 1.6	2.3	N 6.5	1.9	G 6.5	30.3	
6.0	⇦ 17.5	6.0	□ 24.0	60.5											

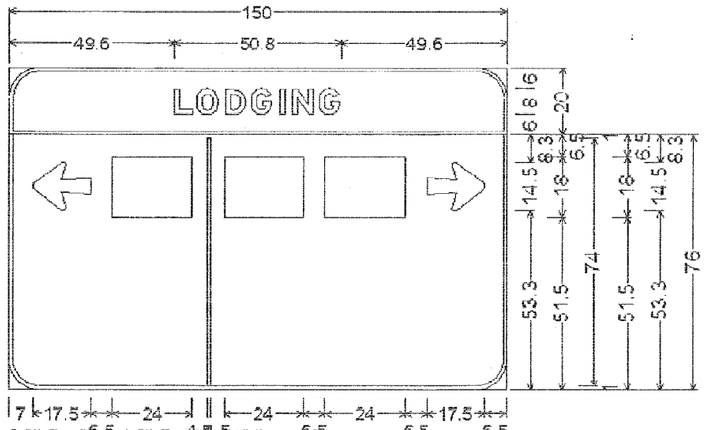
GSb #15 RAMP EE



9.0" Radius, 1.0" Border, White on Blue;
"GAS" E Mod 2K;
9.0" Radius, 1.0" Border, White on Blue;
Untitle1; Untitle1;
Table of widths and spaces.

45.4	G 6.4	1.1	A 8.1	1.3	S 6.4	45.3
6.3	⇦ 17.5	6.0	□ 24.0	60.3		
59.8	□ 24.0	6.0	⇨ 17.5	6.8		

#16 FS1 I-57 RAMP EE



9.0" Radius, 1.0" Border, White on Blue;
"LODGING" E Mod 2K;
9.0" Radius, 1.0" Border, White on Blue;
Untitle1; Untitle1;
Table of widths and spaces.

49.6	L 6.0	0.9	O 6.8	1.9	D 6.5	1.5	G 6.5	2.0	I 1.5	2.3	N 6.5	1.9	G 6.5	49.6	
7.0	⇦ 17.5	6.5	□ 24.0	4.5	| 1.0	4.5	□ 24.0	6.5	□ 24.0	6.5	⇨ 17.5	6.5			

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN PANELS

SCALE: VERT. NO SCALE
HORIZ.
DATE

DRAWN BY
CHECKED BY

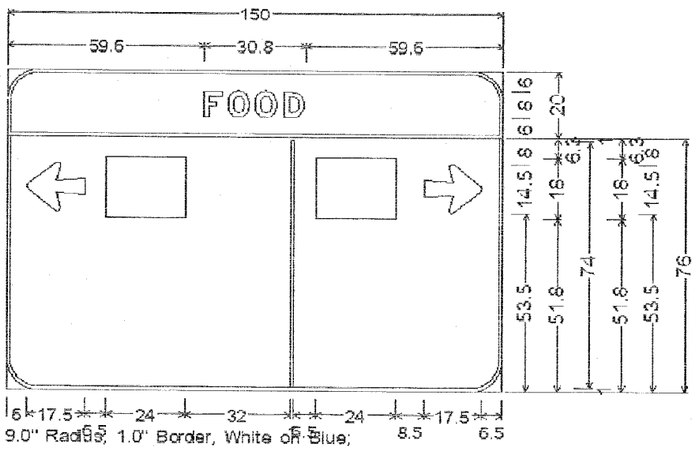
PLOT DATE = 10/12/2006
FILE NAME = e:\projects\gR82682\old3\old3sign.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hasdon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	772
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

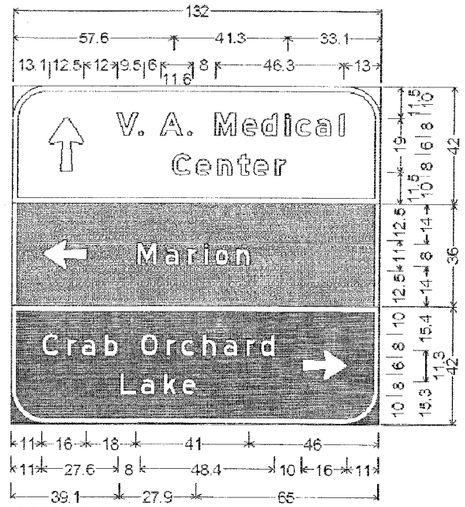
FS1 #17 RAMP F



9.0" Radius, 1.0" Border, White on Blue;
"FOOD" E Mod 2K;
9.0" Radius, 1.0" Border, White on Blue;
Untitle1; Untitle1;
Table of widths and spaces.

59.6	F 6.0	1.4	O 6.5	1.6	O 6.8	1.9	D 6.5	59.6	
6.0	⇦ 17.5	5.5	□ 24.0	32.0	I 1.0	6.5	□ 24.0	8.5	⇨ 17.5	6.5

#18 I-57 RAMP EE



12.0" Radius, 2.0" Border, White on Blue;
Arrow Custom - 19.0" 90°; "V." E Mod;
"A." E Mod; "Medical" E Mod; "Center" E Mod;
3.0" Radius, 2.0" Border, White on Green;
"Marion" E Mod;
12.0" Radius, 2.0" Border, White on Brown;
"Crab" E Mod; "Orchard" E Mod; "Lake" E Mod;
Table of widths and spaces.

13.1	⇧ 12.5	12.0	V 7.4	0.5	. 1.6	6.0	A 8.0	2.0	. 1.6																							
						8.0	M 7.4	2.8	e 5.1	1.9	d 5.3	3.0	l 1.5	2.5	c 5.1	1.9	a 5.1	3.1	l 1.5	13.1												
57.6	C 6.4	2.1	e 5.3	2.5	h 5.1	2.3	t 4.1	1.8	e 5.1	2.6	r 4.0	33.1																				
11.0	⇦ 16.0																															
						18.0	M 7.4	2.6	a 5.3	3.0	r 3.9	1.9	l 1.5	2.5	e 5.3	2.5	h 5.1	16.0														
11.0	C 6.4	2.6	r 4.0	1.1	a 5.3	3.0	b 5.3																									
						7.9	O 6.6	2.8	r 3.9	1.3	c 5.0	2.5	h 5.3	2.4	a 5.1	3.1	r 4.0	1.1	d 5.3													
						10.0	⇨ 16.0	11.0																										
39.1	L 5.9	1.6	a 5.1	3.1	k 5.3	1.6	e 5.3	65.0																									

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGN PANELS

SCALE: VERT. NO SCALE HORIZ.
DATE
DRAWN BY
CHECKED BY

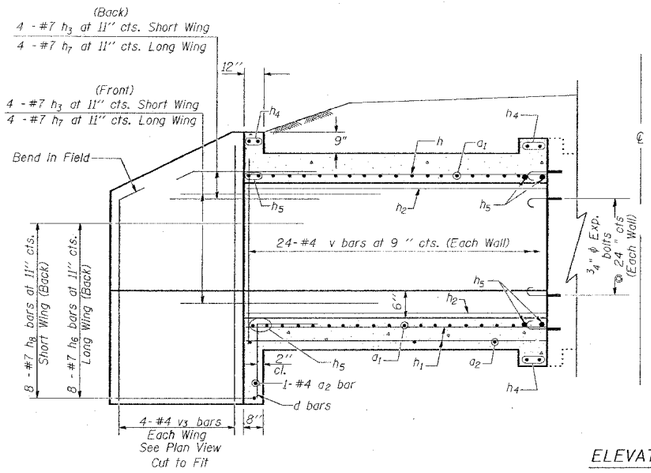
PLOT DATE = 10/12/2006
FILE NAME = c:\projects\d9828\old3\old3signs.dgn
PLOT SCALE = 512.0000 ' / IN.
USER NAME = hedson

CONTRACT NO. 98950

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	773
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

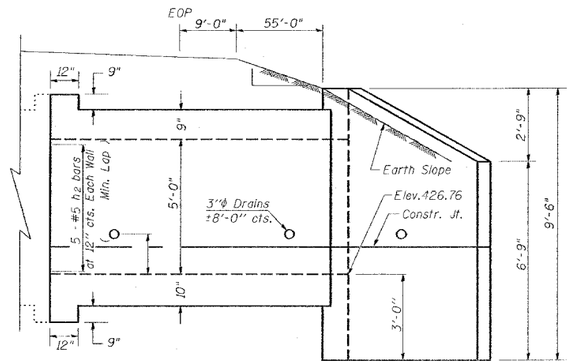
* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

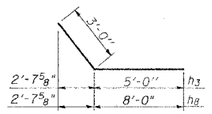
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



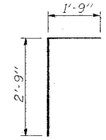
ELEVATION

Dimensions at Rt. L's to ℄ Roadway

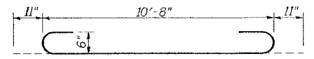




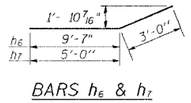
BARS h_3 & h_8



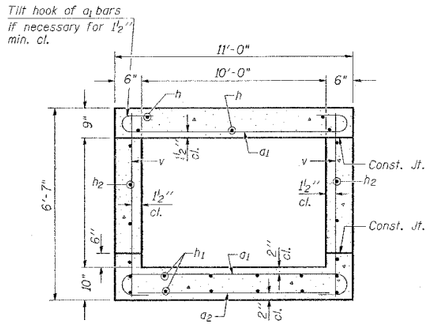
BAR d



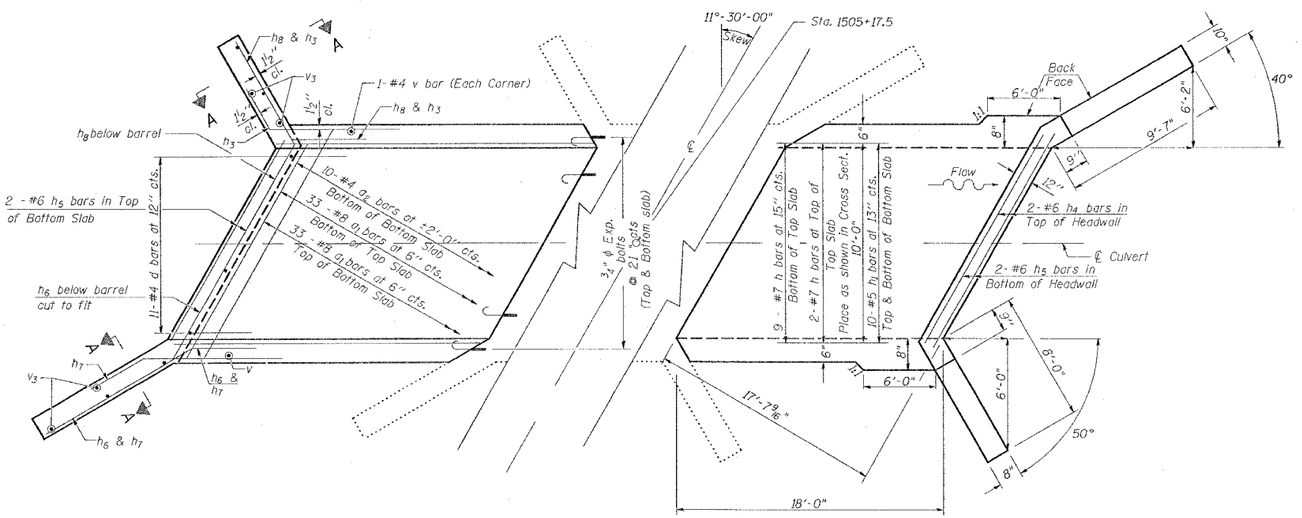
BAR a_1



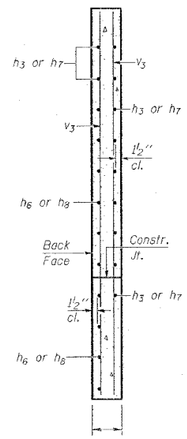
BARS h_6 & h_7



SECTION THRU BARREL



PLAN



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1	62	#8	12'-7"	
a_2	10	#4	10'-6"	
d	11	#4	4'-6"	
h	11	#7	17'-9"	
h_1	20	#5	17'-9"	
h_2	10	#5	17'-9"	
h_3	8	#7	8'-0"	
h_4	6	#6	11'-0"	
h_5	8	#6	11'-7"	
h_6	8	#7	12'-7"	
h_7	8	#7	8'-0"	
h_8	8	#7	11'-0"	
v	48	#4	6'-3"	
v_1	8	#4	8'-0"	
Concrete Removal Long Wingwall			Cu. Yd.	3.1
Concrete Removal Short Wingwall			Cu. Yd.	2.5
Concrete Box Culverts			Cu. Yd.	21.0
Reinforcement Bars			Pound	4,435
3/4" Expansion bolts			Each	18

NOTES

Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

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

All construction joints shall be bonded.

Expansion bolts shall be 3/4" ø x 12" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and have a minimum certified proof load of 4,080 lbs.

No extension to the left. Just shown for reinforcement, Information Only.

DESIGN STRESSES

fy = 60,000 psi
f'c = 3,500 psi

LOADING HS 20-44 & ALT.

REVISIONS	
DRAWN	2-04
REVISED	
REVISED	
REVISED	

BASED ON: SSB-H-R 6-1-2000

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSION
RT. STATION 1505+17.5 (SB)
10' x 5', SKEW 11°-30'-0" RT. AH.
EXTEND 18'-0"

SCALE: VERT. NO SCALE HORIZ.
DRAWN BY CNH
DATE
CHECKED BY

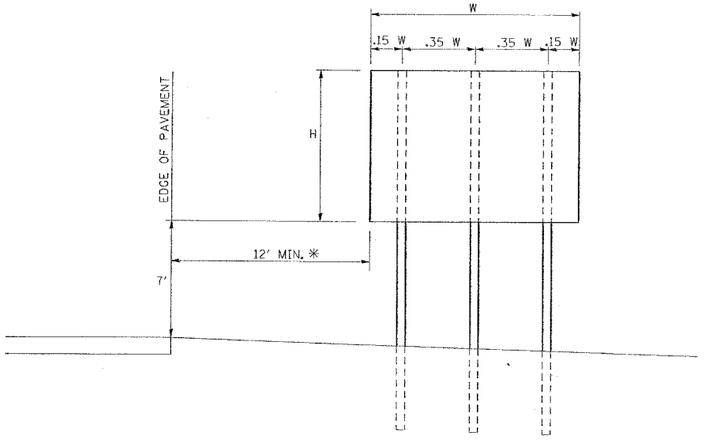
PLOT DATE = 10/12/2006
FILE NAME = c:\projects\d2802\sb1d13\sb1d13s3.dgn
PLOT SCALE = 50.0000 '/ IN.
USER NAME = hsaden

CONTRACT NO. 98950

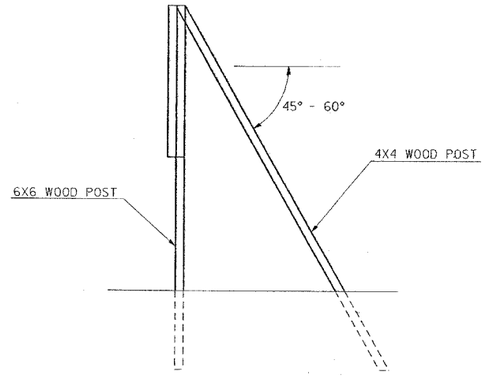
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	774
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

TEMPORARY SIGNS



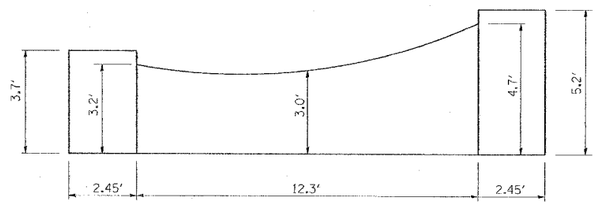
* IF SHOULDER IS WIDER THAN 6', THEN MIN. LATERAL OFFSET SHALL BE 6' FROM EDGE OF SHOULDER.



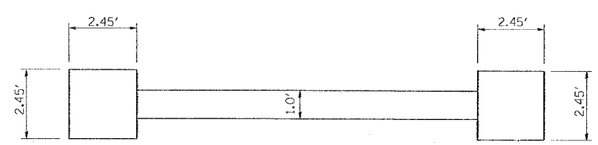
USE A 4X4 SUPPORT POST ON EVERY 6X6 VERTICAL SIGN POST.

STATION	HEIGHT	WIDTH	DESCRIPTION
1522+00	12'-0"	14'-6"	IL 13 WEST CARBONDALE 3/4
1523+00	17'-6"	11'-6"	IL 13 EAST MARION HARRISBURG 1/2
1527+00	9'-0"	12'-6"	MAIN ST. MARION

DETAIL: REMOVAL OF EXISTING STRUCTURES NO. 5
DETAIL: REMOVAL OF EXISTING STRUCTURES NO. 6



FRONT VIEW



TOP VIEW

THE EXISTING STRUCTURES ARE LOCATED RT. STA. 762+56 AND RT. STA. 763+03 ON EACH SIDE OF THE EXISTING CRISP DRIVE. THE OUTSIDE OF THE STRUCTURES IS BRICK. IT IS UNKNOWN IF THE CORE IS SOLID OR HOLLOW. THE SIZE AND DEPTH OF THE FOUNDATION IS ALSO UNKNOWN.

THE STRUCTURES SHALL BE COMPLETELY REMOVED, WHICH WORK SHALL INCLUDE ALL ATTACHMENTS SUCH AS LIGHTING AND CONDUIT, FOUNDATIONS, AND ANY CORE MATERIAL. THE WORK TO REMOVE THE STRUCTURE RT. STA. 762+56 WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR REMOVAL OF EXISTING STRUCTURES NO. 5. THE WORK TO REMOVE THE STRUCTURE RT. STA. 763+03 WILL BE PAID AT THE CONTRACT UNIT PRICE PER EACH FOR REMOVAL OF EXISTING STRUCTURES NO. 6.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS:

TEMPORARY SIGNS; REMOVAL OF EXISTING STRUCTURES NO. 5 AND NO. 6

SCALE: VERT. NONE HORIZ.
DATE

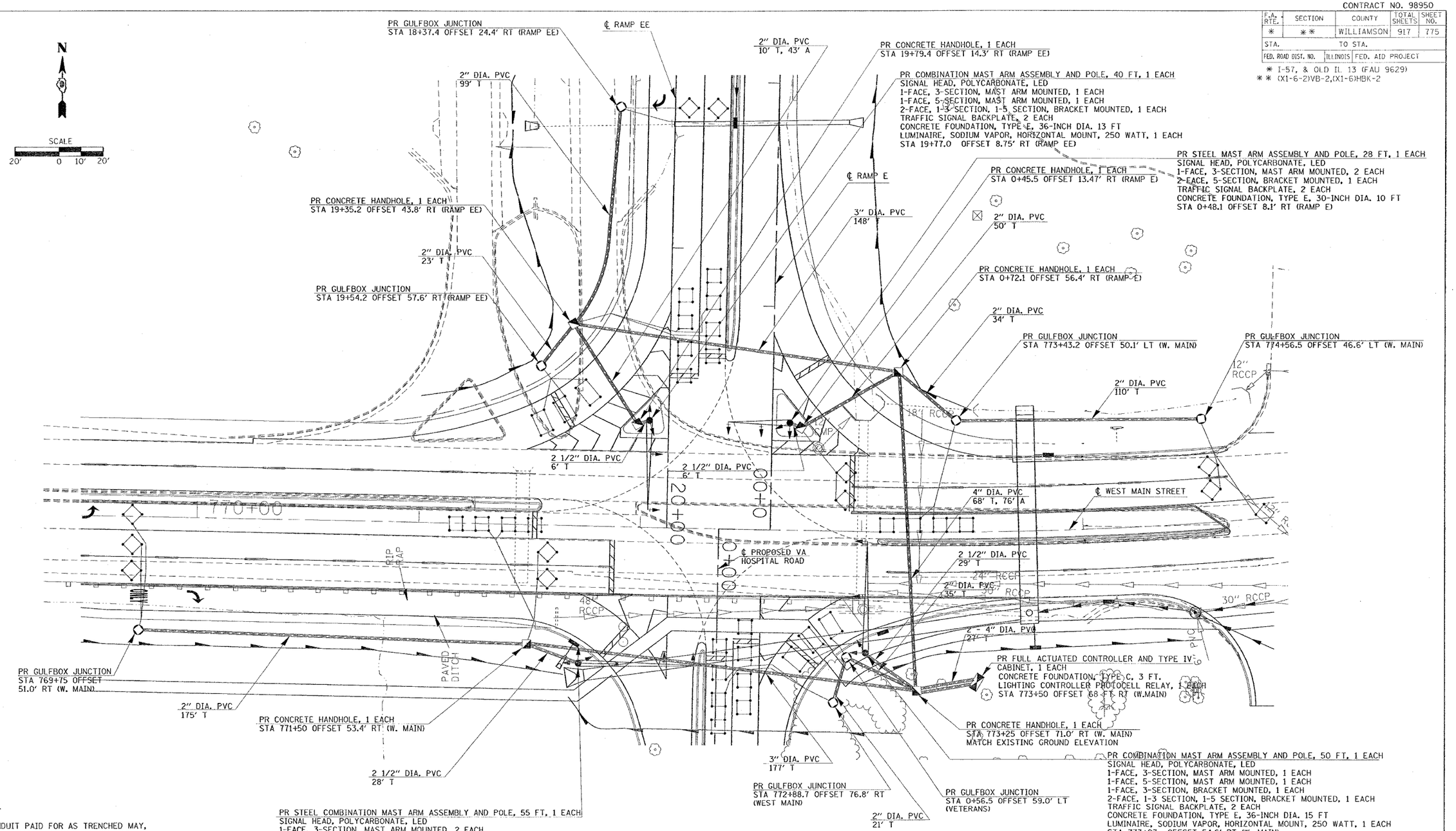
DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/12/2005
FILE NAME = c:\projects\w982802\sht\tb3s3.dgn
PLOT SCALE = 50.2000 '/ IN.
USER NAME = haddon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	775
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



NOTE:

1. CONDUIT PAID FOR AS TRENCHED MAY, AT THE CONTRACTOR'S OPTION, BE AUGERED. THE CONDUIT WILL BE PAID FOR AT THE TRENCHED UNIT PRICE.
2. FOR INTERSECTION LIGHTING SEE DETAIL SHEET

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNALS INTERSECTION OF RAMP E/EE AND OLD IL 13

SCALE: VERT. HORIZ. 20 DRAWN BY MB

DATE CHECKED BY

PLOT DATE = 12/19/2006
FILE NAME = c:\projects\vdot02682\sht\d3\old3kp15.dgn
PLOT SCALE = 20.0000 '/ IN.
USER NAME = headon

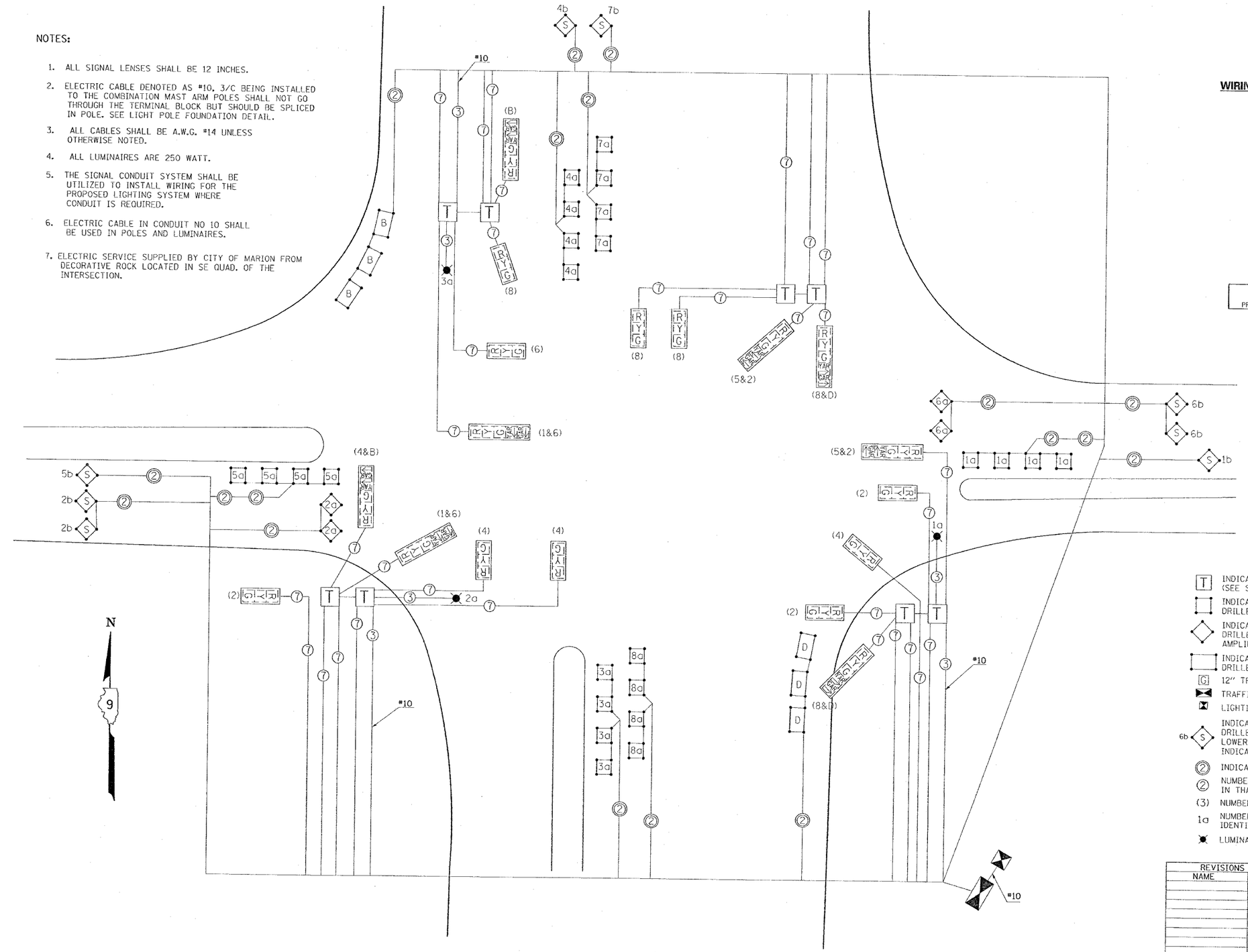
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	776
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

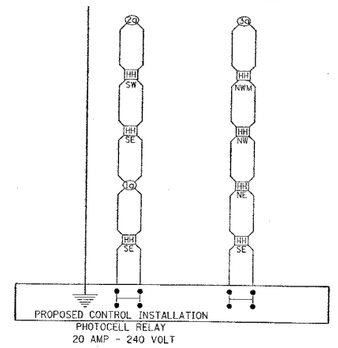
* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

NOTES:

1. ALL SIGNAL LENSES SHALL BE 12 INCHES.
2. ELECTRIC CABLE DENOTED AS #10, 3/C BEING INSTALLED TO THE COMBINATION MAST ARM POLES SHALL NOT GO THROUGH THE TERMINAL BLOCK BUT SHOULD BE SPLICED IN POLE. SEE LIGHT POLE FOUNDATION DETAIL.
3. ALL CABLES SHALL BE A.W.G. #14 UNLESS OTHERWISE NOTED.
4. ALL LUMINAIRES ARE 250 WATT.
5. THE SIGNAL CONDUIT SYSTEM SHALL BE UTILIZED TO INSTALL WIRING FOR THE PROPOSED LIGHTING SYSTEM WHERE CONDUIT IS REQUIRED.
6. ELECTRIC CABLE IN CONDUIT NO 10 SHALL BE USED IN POLES AND LUMINAIRES.
7. ELECTRIC SERVICE SUPPLIED BY CITY OF MARION FROM DECORATIVE ROCK LOCATED IN SE QUAD. OF THE INTERSECTION.



WIRING DIAGRAM FOR ROADWAY LIGHTING



LEGEND

HH INDICATES PROPOSED TRAFFIC SIGNAL HANDHOLE

HANDHOLE DESIGNATIONS:

NE	NORTHEAST CORNER
NW	NORTHWEST CORNER
SE	SOUTHEAST CORNER
SW	SOUTHWEST CORNER
NWM	NORTHWEST MEDIAN

INDICATES POSITION OF TRAFFIC SIGNAL POST IN WIRING DIAGRAM WITH LUMINAIRE

INDICATES CONTINUOUS GROUND FOR CONTROL INSTALLATION.

LEGEND

- T — INDICATES TERMINAL BLOCK ON MAST ARM POLE (SEE SPECIAL PROVISIONS)
- INDICATES 6' X 6' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS.
- INDICATES 5' X 5' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS. THESE LOOPS REQUIRE AMPLIFIERS WITH SYSTEM OUTPUT
- INDICATES 6' X 14' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS.
- G — 12" TRAFFIC SIGNAL SECTION
- TRAFFIC SIGNAL CONTROLLER CABINET
- LIGHTING CONTROLLER WITH PHOTOCELL RELAY
- 6b S — INDICATES 5' X 5' ADVANCE LOOP WITH 2" CORE DRILLED CORNERS: NUMBER INDICATES PHASE, LOWER CASE LETTER INDICATES AMPLIFIER, "S" INDICATES SYSTEM
- (2) — INDICATES 2/C TWISTED, SHIELDED CABLE IN CONDUIT
- (2) — NUMBER IN CIRCLE INDICATES NUMBER OF CONDUCTORS IN THAT CABLE
- (3) — NUMBER IN PARENTHESIS INDICATES PHASE
- 1a — NUMBER INDICATES PHASE; LETTER OR LETTERS IDENTIFY AMPLIFIER
- LUMINAIRE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM FOR INTERSECTION RAMP E/EE AND OLD IL 13

SCALE: VERT. NONE HORIZ.
DATE

DRAWN BY MB
CHECKED BY

PLOT DATE = 10/16/2008
FILE NAME = c:\projects\d02802\old13\old13sh5.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hendon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	777
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

N

20' 0 10' 20'

9

NOTES:

1. THE COST OF THE CONDUIT SPLICE SHALL BE INCLUDED IN THE COST OF THE CONDUIT.
2. THE DETECTOR LOOPS SHALL HAVE FOUR TURNS OF LOOP WIRE OR AS DIRECTED BY THE MANUFACTURER.
3. THE COST OF THE 1½" PVC CONDUIT SHALL BE INCLUDED IN THE COST OF DETECTOR LOOP, TYPE 1.
4. THE LOCATION ON THE PLAN SHEET IS APPROXIMATE LOCATION OF THE PAD MOUNTED TRANSFORMER, SERVICE POINT. THE ACTUAL SERVICE POINT WILL BE DETERMINED BY THE UTILITY DEPARTMENT PERMIT WITH THE SERVICE PROVIDER. THE UTILITY DEPARTMENT AND THE SERVICE PROVIDER SHOULD BE NOTIFIED AFTER THE AWARD OF THE CONTRACT TO INSTALL AND ACTIVATE THE PAD MOUNTED SERVICE POINT.

1½" PVC
15' (SEE NOTE 3)

GULFBOX JUNCTION
STA. 14+27, RT. 27' (RAMP "F")

1½" PVC
85' (T)

CONCRETE HANDHOLE
STA. 15+12, RT. 38' (RAMP "F")

LIGHTING CONTROLLER PHOTO CELL RELAY

FULL ACTIVATED CONTROLLER AND TYPE IV CABINET

4" PVC
15' (T)

2½" PVC
26' (T)
39' (A)

1½" PVC
33' (T)

4" PVC
15' (T)

PEDESTRIAN PUSH-BUTTON POST, TYPE 1
STA. 761+38, LT. 74' (IL 13)

3½" PVC
58' (T)
98' (A)

(SEE NOTE 4)

STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
STA. 761+77, LT. 48' (IL 13)

1½" PVC
21' (SEE NOTE 3)

2½" PVC
44' (T)
86' (A)

TRAFFIC SIGNALPOST, 16 FT.
CONCRETE FOUNDATION, TYPE A
STA. 762+41, LT. 48' (IL 13)

CONCRETE HANDHOLE
STA. 0+85, RT. 44' (RAMP "FF")

2½" PVC
19' (T)
33' (A)

1½" PVC
27' (SEE NOTE 3)

STA. 0+00.00 RAMP "FF" =
STA. 762+32.85 WEST MAIN ST.

1½" PVC
240' (T)

GULFBOX JUNCTION
STA. 765+15, LT. 54' (IL 13)

1½" PVC
21' (SEE NOTE 3)

STA. 16+17.46 RAMP "F" =
STA. 761+85.85 WEST MAIN ST.

1½" PVC
18' (SEE NOTE 3)

1½" PVC
217' (T)

1½" PVC
23' (SEE NOTE 3)

CONCRETE HANDHOLE
STA. 761+36, RT. 48' (IL 13)

1½" PVC
18' (T)

GULFBOX JUNCTION
STA. 759+18, RT. 45' (IL 13)

PEDESTRIAN PUSH-BUTTON POST, TYPE 1
STA. 761+53, RT. 41.5' (IL 13)

2½" PVC
45' (T)

2½" PVC
76' (T)
27' (A)

TRAFFIC SIGNALPOST, 16 FT.
CONCRETE FOUNDATION, TYPE A
STA. 761+81, RT. 45' (IL 13)

1½" PVC
21' (SEE NOTE 3)

2½" PVC

STA. 10+00.00 CRISP DRIVE =
STA. 762+09.35 WEST MAIN ST.

STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
STA. 762+38, RT. 45' (IL 13)

CONCRETE HANDHOLE
STA. 762+38, RT. 53' (IL 13)

1½" PVC
17' (SEE NOTE 3)

LEGEND

- EXISTING LIGHT POLE AND LUMINAIRE
- GULFBOX JUNCTION
- CONCRETE HANDHOLE
- SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, MAST ARM MOUNTED
- SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, BRACKET MOUNTED
- SIGNAL HEAD, POLYCARBONATE, 1-FACE, 5-SECTION, BRACKET MOUNTED
- (T) CONDUIT IN TRENCH
- (A) CONDUIT, AUGERED
- --" PVC SIZE OF CONDUIT
- TRAFFIC SIGNAL CONTROLLER AND FOUNDATION
- LIGHT CONTROLLER
- SIGNAL HEAD, POLYCARBONATE, 1-FACE, 5-SECTION, MAST ARM MOUNTED
- SIGNAL HEAD, POLYCARBONATE, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED
- 250 WATT HPS HORIZONTAL MOUNT, FULL CUTOFF LUMINAIRE ON COMBINATION MAST ARM ASSEMBLY
- PEDESTRIAN PUSH-BUTTON POST, TYPE 1
- PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNALS
RAMPS "F" AND "FF" AND OLD ILL 13

SCALE: VERT. 20 HORIZ.
DATE

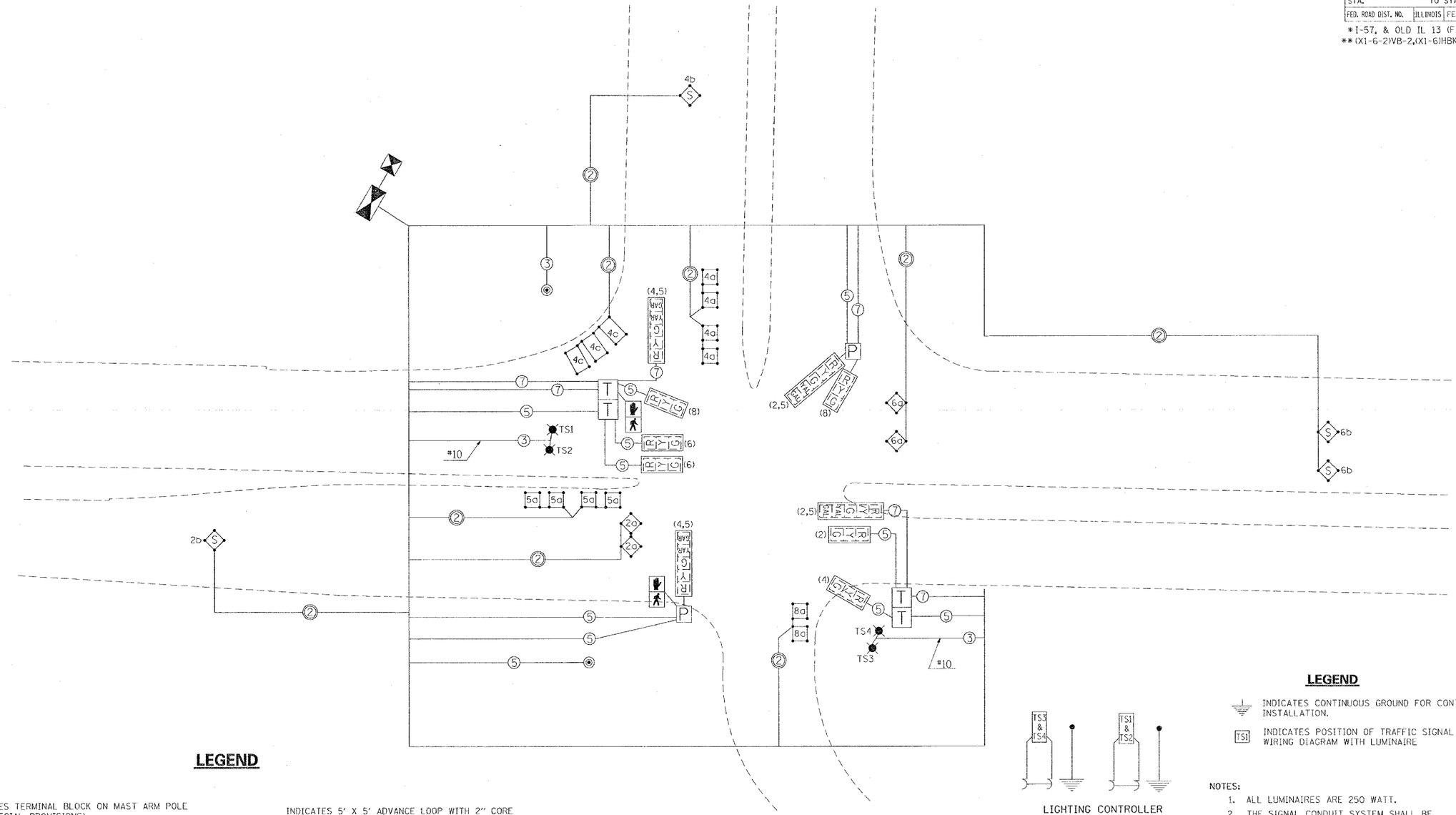
DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/13/2006
FILE NAME = c:\projects\rf82282\sld13\sld13p4.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = hesdon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	778
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*I-57, & OLD IL 13 (FAU 9629)
**(X1-6-2)VB-2,(X1-6)HBK-2



LEGEND

- T — INDICATES TERMINAL BLOCK ON MAST ARM POLE (SEE SPECIAL PROVISIONS)
- P — INDICATES TRAFFIC SIGNAL POST
- INDICATES 6' X 6' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS.
- INDICATES 5' X 5' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS. THESE LOOPS REQUIRE AMPLIFIERS WITH SYSTEM OUTPUT
- INDICATES 6' X 14' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS.
- G — 12" TRAFFIC SIGNAL SECTION
- TRAFFIC SIGNAL CONTROLLER CABINET
- LIGHTING CONTROLLER WITH PHOTOCELL RELAY
- 6b S — INDICATES 5' X 5' ADVANCE LOOP WITH 2" CORE DRILLED CORNERS: NUMBER INDICATES PHASE, LOWER CASE LETTER INDICATES AMPLIFIER, "S" INDICATES SYSTEM
- (2) — INDICATES 2/C TWISTED, SHIELDED CABLE IN CONDUIT
- 2 — NUMBER IN CIRCLE INDICATES NUMBER OF CONDUCTORS IN THAT CABLE
- (3) — NUMBER IN PARENTHESIS INDICATES PHASE
- 1a — NUMBER INDICATES PHASE; LETTER OR LETTERS IDENTIFY AMPLIFIER
- LUMINAIRE
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH-BUTTON POST

NOTES:

1. ALL SIGNAL LENSES SHALL BE 12 INCHES.
2. ELECTRIC CABLE DENOTED AS #10, 3/C BEING INSTALLED TO THE COMBINATION MAST ARM POLES SHALL NOT GO THROUGH THE TERMINAL BLOCK BUT SHOULD BE SPLICED IN POLE. SEE LIGHT POLE FOUNDATION DETAIL.

NOTE: ALL CABLES SHALL BE A.W.G. #14 UNLESS OTHERWISE NOTED

LIGHTING CONTROLLER
PHOTOCELL RELAY
20 AMP - 240 VOLT

LEGEND

- INDICATES CONTINUOUS GROUND FOR CONTROL INSTALLATION.
- TS1 — INDICATES POSITION OF TRAFFIC SIGNAL POST IN WIRING DIAGRAM WITH LUMINAIRE

NOTES:

1. ALL LUMINAIRES ARE 250 WATT.
2. THE SIGNAL CONDUIT SYSTEM SHALL BE UTILIZED TO INSTALL WIRING FOR THE PROPOSED LIGHTING SYSTEM WHERE CONDUIT IS REQUIRED.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM FOR OLD IL 13 RAMP F & FF

SCALE: VERT. NONE HORIZ.
DATE

DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/13/2006
FILE NAME = c:\projects\c982002\old13old13ps4.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hasson

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	779
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

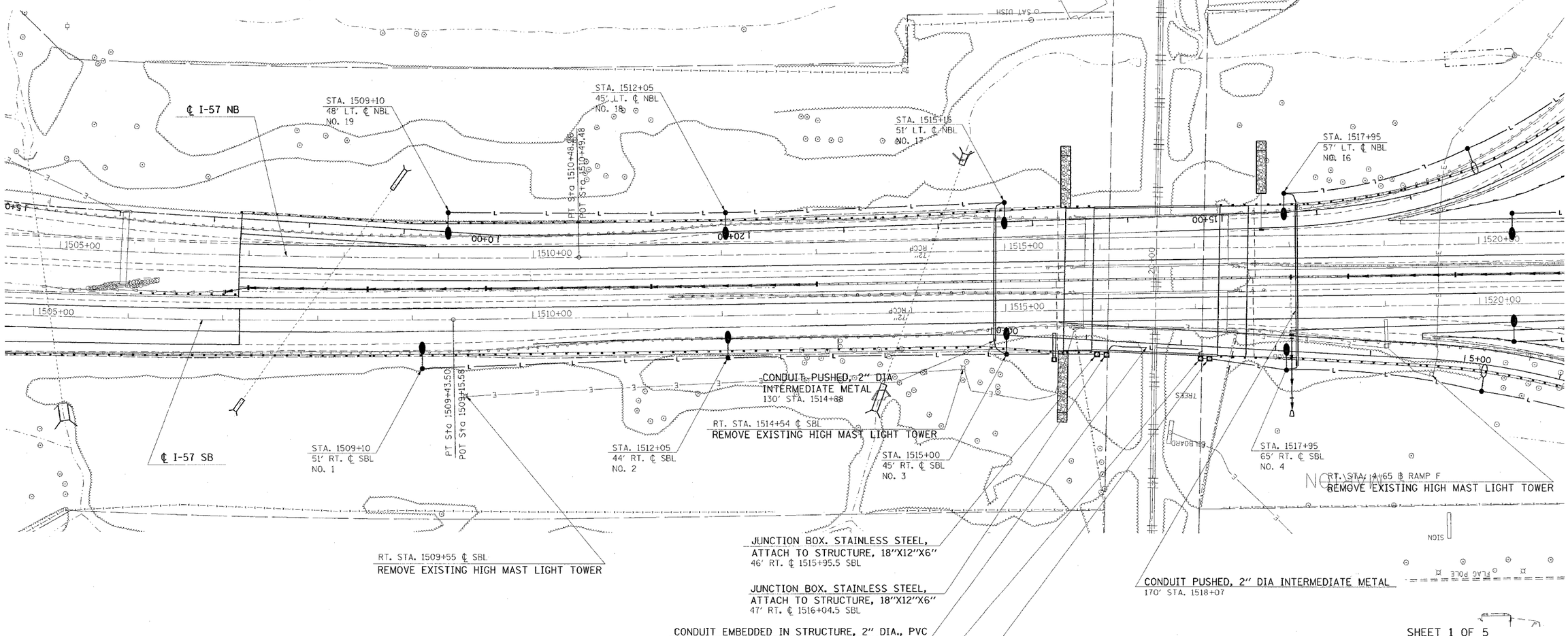
* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

N

50' 0 25' 50'

LIGHTING SYMBOL LEGEND

- LIGHTING CONTROLLER
- JUNCTION BOX, STAINLESS STEEL
- LUMINAIRE, 400 WATT HPS, 50 FT. MOUNTING HEIGHT. LUMINAIRES ON BRIDGE SHALL HAVE 3 FT. DAVIT ARM, ALL OTHERS SHALL HAVE 15 FT. DAVIT ARM
- LUMINAIRE, 250 WATT HPS, 45 FT. MOUNTING HEIGHT, 15 FT. DAVIT ARM
- CONDUIT PUSHED, INTERMEDIATE METAL
- L — CABLE IN UNIT DUCT. SEE WIRING DIAGRAMS FOR SIZES
- UNDERPASS LIGHTING UNIT. ALL CONDUIT AND WIRE TO UNDERPASS LIGHTING UNITS SHALL BE INCLUDED WITH THE UNDERPASS LIGHTING UNITS AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "UNDERPASS LIGHTING UNIT, 150 WATT HPS". NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



SHEET 1 OF 5

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING
I-57
STA. 1505+00 TO STA. 1520+00

SCALE: VERT. 50 HORIZ.
DATE

DRAWN BY CNH
CHECKED BY LA

PLOT DATE = 11/28/2006
FILE NAME = c:\projects\x1902862\old13\old13p12.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = headcn

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	780
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

N S

50' 0 25' 50'

UNDERPASS LIGHTING UNIT, 150 WATT HPS
21' LT. ℄ 1529+90 NBL
NO. U3

UNDERPASS LIGHTING UNIT, 150 WATT HPS
21' LT. ℄ 1530+03 NBL
NO. U4

STA. 1529+16
51' LT. ℄ NBL
NO. 12

CONDUIT ATTACHED TO STRUCTURE,
2" DIA. GALV. STEEL

STA. 1530+80
42' LT. ℄ NBL
NO. 11

JUNCTION BOX. STAINLESS STEEL,
ATTACH TO STRUCTURE, 18"X12"X6"
56' LT. ℄ 1529+09 NBL

JUNCTION BOX. STAINLESS STEEL,
ATTACH TO STRUCTURE, 18"X12"X6"
46.5' LT. ℄ 1530+86.5 NBL

JUNCTION BOX. STAINLESS STEEL,
ATTACH TO STRUCTURE, 18"X12"X6"
56.5' LT. ℄ 1528+99 NBL

JUNCTION BOX. STAINLESS STEEL,
ATTACH TO STRUCTURE, 18"X12"X6"
46' LT. ℄ 1530+96 NBL

STA. 1533+42
41' LT. ℄ NBL
NO. 10
THE ENGINEER SHALL ADJUST LOCATION OF LIGHT POLE FOUNDATION AND BURIED CABLE TO AVOID PAVEMENT AND SHOULDER THAT REMAINS IN PLACE.

RT. STA. 7+50 B RAMP EE
REMOVE EXISTING HIGH MAST LIGHT TOWER

STA. 1526+25
32' LT. ℄ NBL
NO. 13

℄ I-57 NB

STA. 1520+35
32' LT. ℄ NBL
NO. 15

STA. 1523+30
32' LT. ℄ NBL
NO. 14

℄ I-57 SB

STA. 1523+30
32' RT. ℄ SBL
NO. 6

STA. 1526+25
32' RT. ℄ SBL
NO. 7

STA. 1520+35
39' RT. ℄ SBL
NO. 5

JUNCTION BOX. STAINLESS STEEL,
ATTACH TO STRUCTURE, 18"X12"X6"
46.5' RT. ℄ 1528+97 SBL

STA. 1529+11
42' RT. ℄ SBL
NO. 8

STA. 1530+77
39' RT. ℄ SBL
NO. 9

JUNCTION BOX. STAINLESS STEEL,
ATTACH TO STRUCTURE, 18"X12"X6"
46.5' RT. ℄ 1529+05.5 SBL

UNDERPASS LIGHTING UNIT, 150 WATT HPS
32' LT. ℄ 1530+00 SBL
NO. U5

UNDERPASS LIGHTING UNIT, 150 WATT HPS
32' LT. ℄ 1529+87 SBL
NO. U2

CONDUIT ATTACHED TO STRUCTURE,
2" DIA. GALV. STEEL

UNDERPASS LIGHTING UNIT, 150 WATT HPS
18' RT. ℄ 1529+99 SBL
NO. U6

JUNCTION BOX. STAINLESS STEEL,
ATTACH TO STRUCTURE, 18"X12"X6"
34' RT. ℄ 1529+82.5 SBL

UNDERPASS LIGHTING UNIT, 150 WATT HPS
18' RT. ℄ 1529+85.5 SBL
NO. U1

SHEET 2 OF 5

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING
I-57
STA. 1520+00 TO STA. 1535+00

SCALE: VERT. 50
HORIZ.
DATE

DRAWN BY CNH
CHECKED BY LA

PLOT DATE = 12/7/2006
FILE NAME = c:\projects\d982802\old3\old3pl2.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hawson

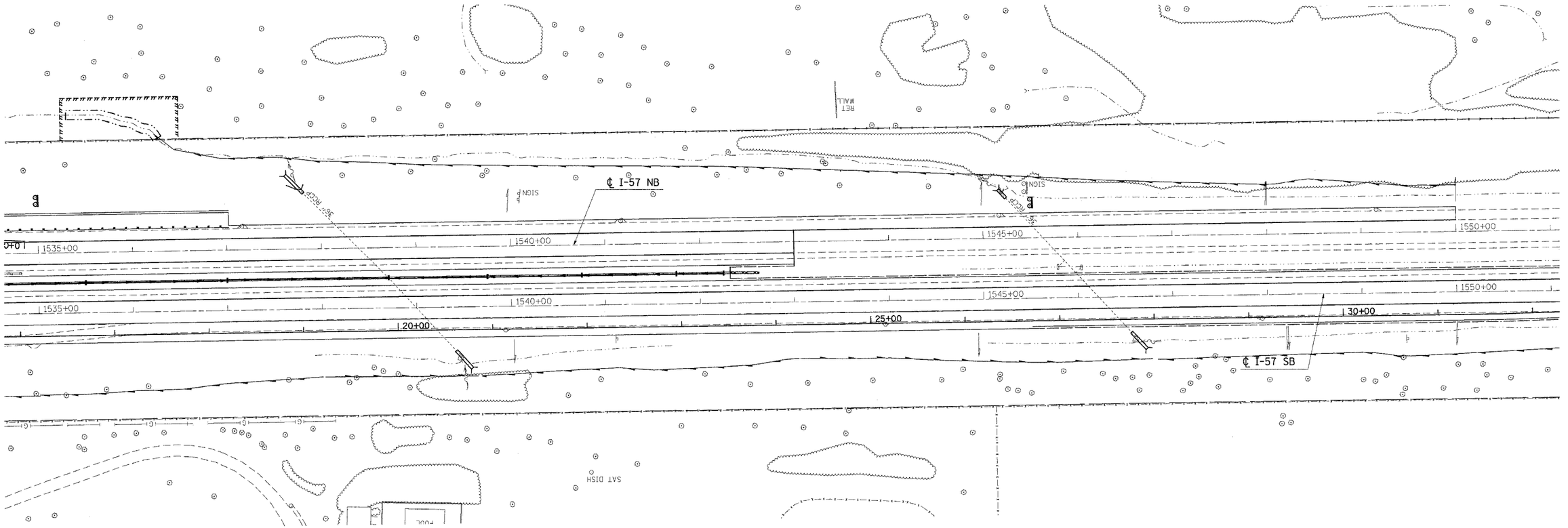
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	781
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

N S

50' 0 25' 50'



SHEET 3 OF 5

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING
I-57
STA. 1535+00 TO STA. 1550+00

SCALE: VERT. 50
HORIZ.
DATE

DRAWN BY CNH
CHECKED BY LA

PLOT DATE = 12/7/2006
FILE NAME = o:\proj_tests\d982802\old13\old13pl2.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hesdon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	782
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

RT. STA. 4+65 ℄ RAMP F
REMOVE EXISTING HIGH MAST LIGHT TOWER

℄ I-57 SB

CONDUIT PUSHED, 2" DIA INTERMEDIATE METAL
40' STA. 7+40 RAMP FF

STA. 5+22
28' RT. ℄ RAMP F
NO. 20

RAMP "F"

STA. 7+29
28' RT. ℄ RAMP F
NO. 21

STA. 9+09
28' RT. ℄ RAMP F
NO. 22

STA. 10+86
28' RT. ℄ RAMP F
NO. 23

RT. STA. 11+14 ℄ RAMP F
REMOVE EXISTING HIGH MAST LIGHT TOWER
LIGHTING FOUNDATION REMOVAL, LIGHT TOWER

RAMP "FF"

STA. 7+25
28' RT. ℄ RAMP FF
NO. 33

STA. 8+60
28' RT. ℄ RAMP FF
NO. 34

STA. 6+03
28' RT. ℄ RAMP FF
NO. 32

STA. 764+45
54' LT. ℄ OLD IL 13
NO. 27

LT. STA. 763+44 ℄ OLD IL 13
REMOVE EXISTING HIGH MAST LIGHT TOWER
LIGHTING FOUNDATION REMOVAL, LIGHT TOWER

STA. 764+30
50' RT. ℄ OLD IL 13
NO. 26

STA. 4+80
28' RT. ℄ RAMP FF
NO. 31

STA. 3+64
28' RT. ℄ RAMP FF
NO. 30

STA. 2+49
28' RT. ℄ RAMP FF
NO. 29

STA. 0+95
37' RT. ℄ RAMP FF
NO. 28

CONDUIT PUSHED, 2" DIA INTERMEDIATE METAL
90' STA. 764+39 OLD IL 13

OLD IL 13

LT. STA. 759+18 ℄ OLD IL 13
REMOVE EXISTING HIGH MAST LIGHT TOWER
LIGHTING FOUNDATION REMOVAL, LIGHT TOWER

CONDUIT PUSHED, 3" DIA INTERMEDIATE METAL
90' STA. 1+92 RAMP FF

LIGHTING CONTROLLER CB-RCS-100-480
190' LT. ℄ 761+20 OLD IL 13

STA. 14+45
32' RT. ℄ RAMP F
NO. 24

STA. 759+90
56' LT. ℄ OLD IL 13
NO. 25

MATCHLINE STA. 758+50

MATCHLINE STA. 758+50

N
9

50' 0 25' 50'

SHEET 4 OF 5

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING
OLD IL 13 AND
RAMPS "F" AND "FF"

SCALE: VERT. 50 HORIZ.
DATE

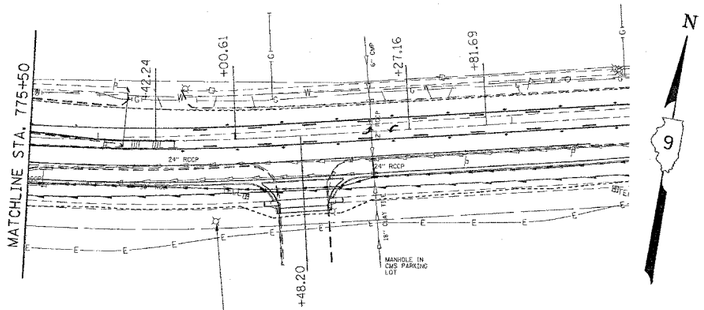
DRAWN BY CNH
CHECKED BY LA

PLOT DATE = 12/7/2006
FILE NAME = c:\projects\PR2282\old13\old13sh12.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = headen

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	783
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



MATCHLINE STA. 775+50

CONDUIT PUSHED, 2" DIA INTERMEDIATE METAL
80'
172' LT. STA. 772+35.27 OLD IL 13

RT. STA. 776+83 ℄ OLD IL 13
REMOVE EXISTING HIGH MAST LIGHT TOWER
LIGHTING FOUNDATION REMOVAL, LIGHT TOWER

STA. 0+84
42' RT. ℄ RAMP E
NO. 48

RAMP "E"

RT. STA. 7+00 ℄ RAMP E
REMOVE EXISTING HIGH MAST LIGHT TOWER
LIGHTING FOUNDATION REMOVAL, LIGHT TOWER

STA. 8+61
28' RT. ℄ RAMP E
NO. 49

STA. 10+58
28' RT. ℄ RAMP E
NO. 50

STA. 12+25
28' RT. ℄ RAMP E
NO. 51

STA. 15+35
28' RT. ℄ RAMP EE
NO. 41

STA. 14+14
28' RT. ℄ RAMP EE
NO. 40

STA. 12+90
28' RT. ℄ RAMP EE
NO. 39

STA. 11+63
28' RT. ℄ RAMP EE
NO. 38

STA. 10+45
28' RT. ℄ RAMP EE
NO. 37

STA. 9+26
28' RT. ℄ RAMP EE
NO. 36

STA. 7+53
28' RT. ℄ RAMP EE
NO. 35

STA. 17+15
28' RT. ℄ RAMP EE
NO. 42

STA. 18+63
32' RT. ℄ RAMP EE
NO. 43

STA. 770+58
56' LT. OLD IL 13
NO. 44

RT. STA. 771+70 ℄ OLD IL 13
REMOVE EXISTING HIGH MAST LIGHT TOWER
LIGHTING FOUNDATION REMOVAL, LIGHT TOWER

STA. 770+73
62' RT. OLD IL 13
NO. 47

STA. 769+14
59' RT. OLD IL 13
NO. 46

STA. 768+85
54' LT. OLD IL 13
NO. 45

OLD IL 13

MARION

RAMP "EE"

CONDUIT PUSHED, 2" DIA INTERMEDIATE METAL
90' STA. 768+68 OLD IL 13

℄ I-57 NB

RT. STA. 7+50 ℄ RAMP EE
REMOVE EXISTING HIGH MAST LIGHT TOWER

CONDUIT PUSHED, 2" DIA INTERMEDIATE METAL
40' STA. 9+15 ℄ RAMP EE

SHEET 5 OF 5

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING
OLD IL 13 AND
RAMPS "E" AND "EE"

SCALE: VERT. 50
HORIZ.
DATE

DRAWN BY CNH
CHECKED BY LA

PLOT DATE = 10/13/2006
FILE NAME = s:\projects\d9828802\old13\old13s12.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = heeden

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	784
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

BILL OF MATERIALS

PAY ITEM	DESCRIPTION	UNIT	QUANTITY TOTALS
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81020500	CONDUIT PUSHED, 2" DIA INTERMEDIATE METAL	FOOT	640
81020700	CONDUIT PUSHED, 3" DIA INTERMEDIATE METAL	FOOT	90
81100600	CONDUIT ATTACHED TO STRUCTURE , 2" DIA. GALV. STEEL	FOOT	445
81200230	CONDUIT EMBEDDED INSTRUCTURE , 2" DIA., PVC	FOOT	135
81300800	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"X12"X6"	EACH	11
81600215	UD 2# 8 XLP, 1# 8 XLPG 3/4 " P	FOOT	2,530
81600315	UD 2# 6 XLP, 1# 6 XLPG 1" P	FOOT	3,950
81600415	UD 2# 4 XLP, 1# 4 XLPG 1" P	FOOT	4,135
81702410	ELECTRIC CABLE IN CONDUIT, 600 V (XLP-TYPE USE) 3-1/C NO. 4	FOOT	190
81702420	ELECTRIC CABLE IN CONDUIT, 600 V (XLP-TYPE USE) 3-1/C NO. 8	FOOT	175
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	9,480
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT 250 WATT	EACH	27
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT 400 WATT	EACH	19
82107300	UNDERPASS LIGHTING UNIT, 150 WATT HPS	EACH	6
82500540	LIGHTING CONTROLLER CB-RCS-100-480	EACH	1
83003600	LIGHT POLE ALUMINUM 45' MH, 15' DAVIT ARM	EACH	27
83004100	LIGHT POLE ALUMINUM 50' MH, 4' DAVIT ARM	EACH	4
83004600	LIGHT POLE ALUMINUM 50' MH, 15' DAVIT ARM	EACH	15
83600355	LIGHT POLE FOUNDATION, METAL, 15" B.C., 8"X6'	EACH	27
83600357	LIGHT POLE FOUNDATION, METAL, 15" B.C., 8"X8'	EACH	15
83800650	BREAKWAY DEVICE, COUPLING, SS SVREEN	EACH	168

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BILL OF MATERIALS

SCALE: VERT. NONE HORIZ.
DATE

DRAWN BY CNH
CHECKED BY LA

PLOT DATE = 11/20/2006
FILE NAME = c:\projects\d902082\old3\old3pl2.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = headcn

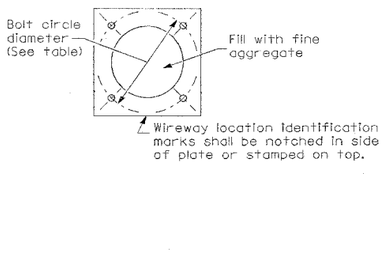
CONTRACT NO. 98950

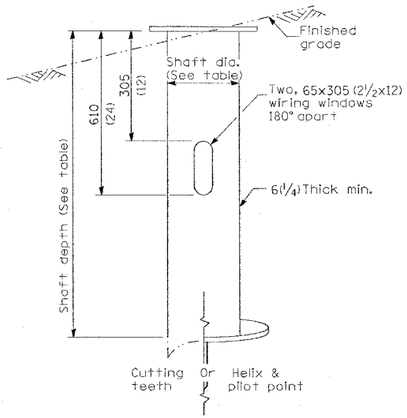
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	785
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

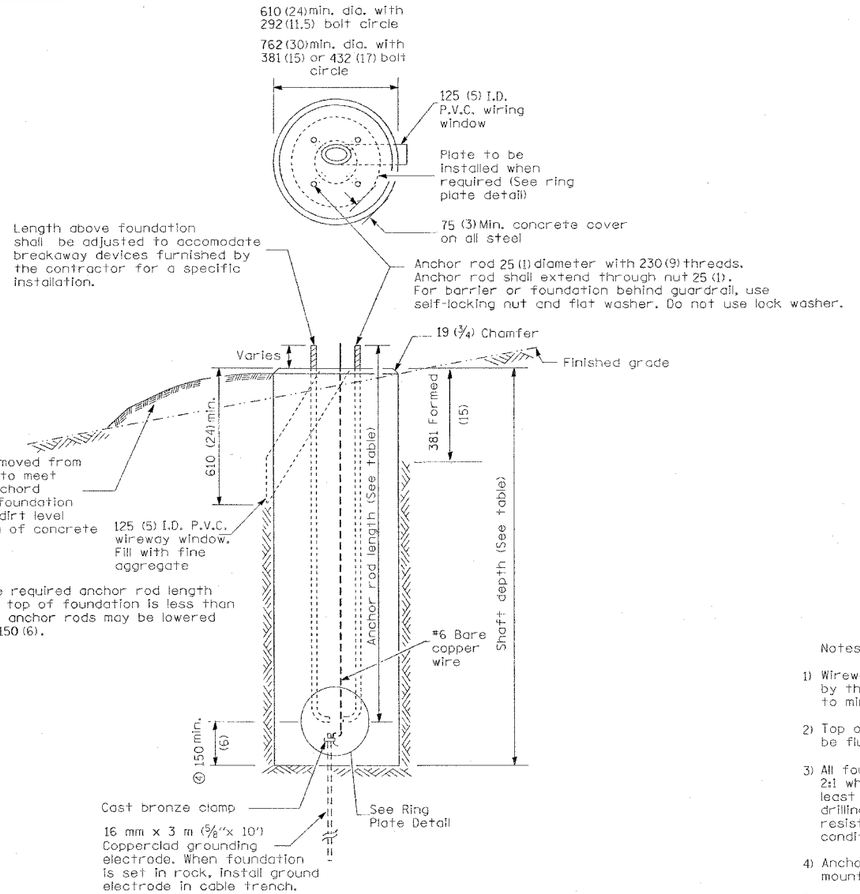
		STEEL FOUNDATION			CONCRETE FOUNDATION		
LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	SHAFT DIAMETER	SHAFT DEPTH	TOP PLATE (min)	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH ①
<9.1 m (30')	292 (11)	220 (8⅝)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.52 m (5'-0")	1.45 m (4'-9")
9.4 m - 10.7 m (31'-35')	292 (11)	220 (8⅝)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.67 m (5'-6")	1.60 m (5'-3")
10.9 m - 12.2 m (36'-40')	381 (15) ③	220 (8⅝)	1.83 m (6') ②	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.83 m (6'-0")	1.75 m (5'-9")
12.5 m - 13.7 m (41'-45')	381 (15) ③	220 (8⅝)	1.83 m (6') ②	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.98 m (6'-6")	1.90 m (6'-3")
14.0 m - 15.2 m (46'-50')	381 (15) ③	220 (8⅝)	2.44 m (8')	375 x 375 x 31 15 x 15 x 1¼	762 (30)	2.13m (7'-0")	2.00 m (6'-9")

① Length does not include 100(4)hook
② 220 mm x 2.44 m (8⅝"x 8'-0") for Twin luminaires
③ Bolt circle diam. shall be 430 (17) when a TB3-17 transformer base is used

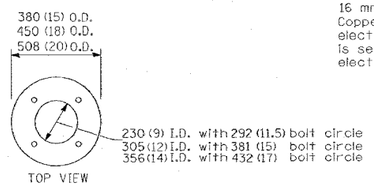




STEEL FOUNDATION



CONCRETE FOUNDATION

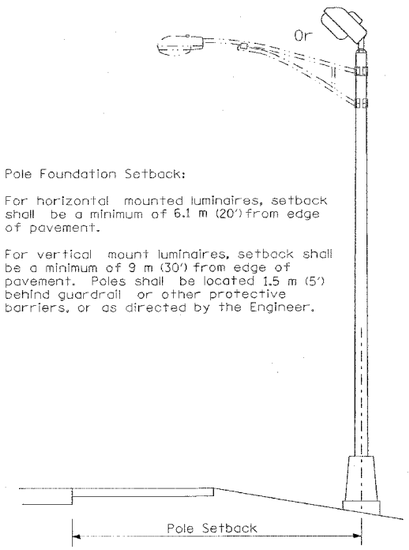


RING PLATE DETAIL
(When rock is encountered and foundation is shallower)

Pole Foundation Setback:

For horizontal mounted luminaires, setback shall be a minimum of 6.1 m (20') from edge of pavement.

For vertical mount luminaires, setback shall be a minimum of 9 m (30') from edge of pavement. Poles shall be located 1.5 m (5') behind guardrail or other protective barriers, or as directed by the Engineer.



Notes:

1) Wireway may be on front, back or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.

2) Top of schedule 40 125 (5) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.

3) All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.

4) Anchor rod shall be increased to 31 (1¼) diameter for 15.24 (50') mounting height or above.

5) TB3-17 transformer base is not to be used on metal foundation

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

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS:

LIGHT POLE FOUNDATION

SCALE: VERT. NONE HORIZ.
DATE

DRAWN BY CNH
CHECKED BY LA

LGT007-836

PLOT DATE = 10/13/2006
FILE NAME = d:\dms_data\c982882\dd15\dd15p12.dgn
ENGINEER = RBROWN / JN
USER NAME = headon

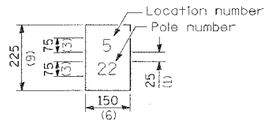
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	786
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

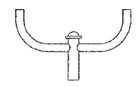
"Install and orient arm bracket over pole tenon and firmly hand tighten the two set screws. Use third hole in arm bracket as a guide to drill a 8.3 (3/64) diameter hole through tenon. Install and tighten self-tapping screw. Tighten set screws an additional (1/4 to 3/8) turn with hex key (not provided). Install locknuts on set screws if threaded projection allows."

Pole shall meet AASHTO Standard Specifications for 128.72 km (80 mph) wind loading and 40.82 kg (90 lb.), .37 m2 (4.0 sq. ft.) E.P.A. luminaire.

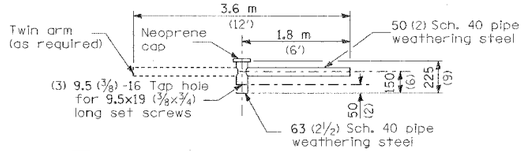


The contractor shall furnish and install a light pole identification of each new light pole, as shown above, incidental to the respective light pole pay item. The numerals shall be 75 (3) series "D", black, screened on silver-white type 3 pressure sensitive reflective sheeting conforming to the requirements of section T602.01 of the Standard Specifications for Traffic Control Items. The numerals shall conform to the FHWA "Standard Alphabets for Highway Signs".

The light pole identification shall be applied to sign base material as specified in section 719.11 of the Standard Specifications, approximatey 180 (7) above the adjacent pavement grade visible to approaching traffic in accordance with Highway Standard 2319.

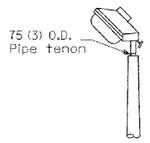


☐ TWIN TENON

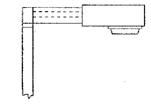


☐ TENON MOUNT BRACKET ARM

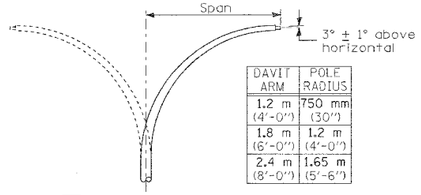
NOTE: Single or twin arm assembly shall be tilted 3° above horizontal.



☐ TENON

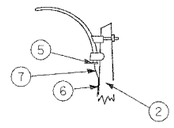


☐ SHORT BRACKET

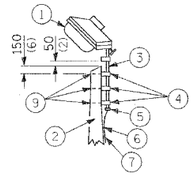


DAVIT ARM	POLE RADIUS
1.2 m (4'-0")	750 mm (30")
1.8 m (6'-0")	1.2 m (4'-0")
2.4 m (8'-0")	1.65 m (5'-6")

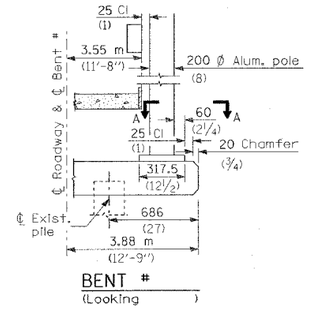
■ DAVIT ARM (and or)
☐ DAVIT ARM-TWIN



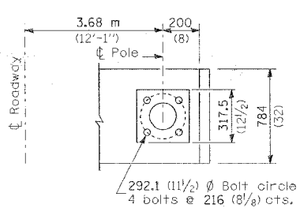
■ MAST ARM



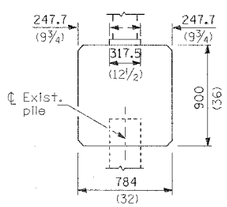
☐ TENON



BENT # (Looking)

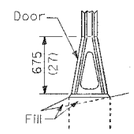


SECTION A-A

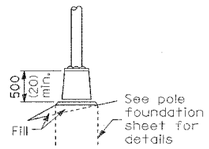


☐ BRIDGE PIER MOUNT

(1) Luminaire
(2) Wood pole, class 3 or better
(3) 63 (2 1/2) Galv. steel conduit
(4) Single offset pole band
(5) Conduit bushing
(6) Cable clamps on 600 (24) centers
(7) 2/c #12 Type USE cable
(8) 25 (1) Galv. steel conduit 3.0 m (10') in length
(9) 16 (5/8) Ø hot dipped galvanized bolt with flat washer & locknut (3 req'd)
(10) Conduit clamps on 900 (36) centers
(11) Unit duct
(12) Threaded reducer
(13) "C" Condulet, threaded
(14) 40 (1 1/2) Galv. steel conduit for 1 unit duct or 75 (3) galv. steel conduit for 2 or 3 unit ducts.

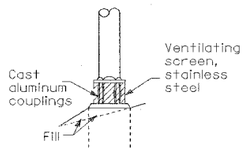


☐ STAINLESS STEEL FLAIR BASE

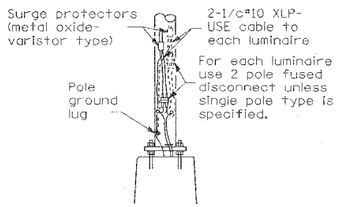


☐ TRANSFORMER BASE

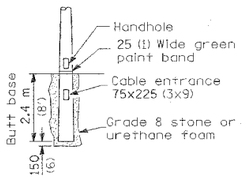
■ FRANGIBLE



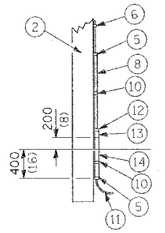
■ BREAKAWAY COUPLING



☐ ANCHOR



☐ BUTT BASE



Details for underground distribution if required

☐ POLE, WOOD

POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')

■ METAL OR ☐ CONCRETE

Details for underground distribution if required

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

LGT008

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS:
POLE STANDARDS

SCALE: VERT. NONE HORIZ.
DATE

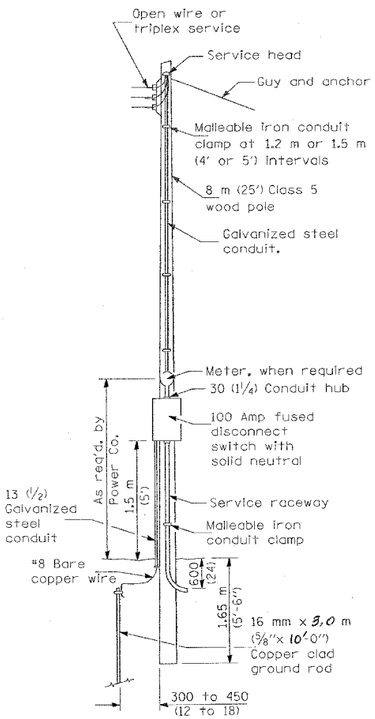
DRAWN BY CNH
CHECKED BY LA

PLOT DATE = 11/26/2006
FILE NAME = c:\projects\MPW2828\2\old13\old13x12.dgn
PLOT SCALE = 64.0000 '/ IN.
USER NAME = hesdon

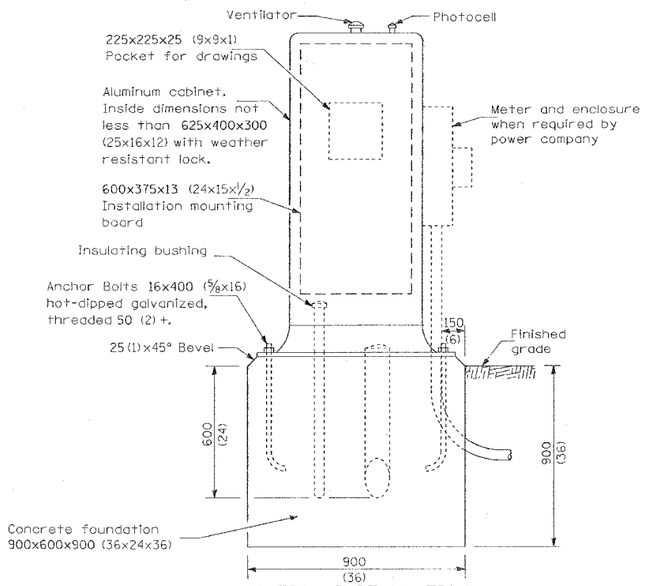
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	787
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

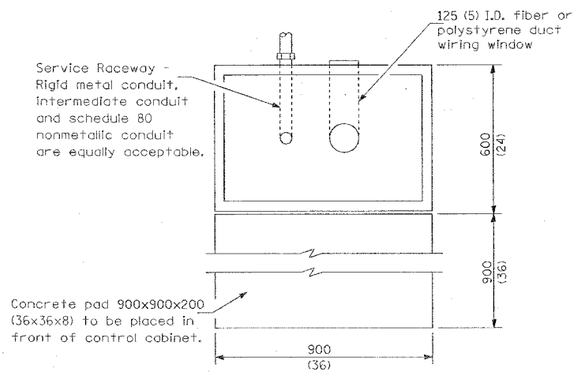
* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



SERVICE POLE

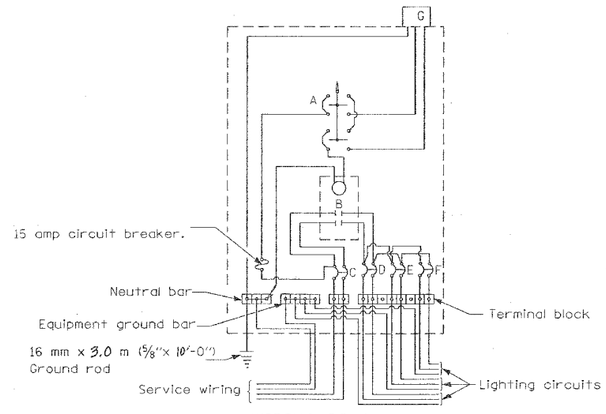


CONTROL INSTALLATION
(FRONT VIEW)



FOUNDATION
(TOP VIEW)

A Selector switch
B 2 Pole 100 amp 240V contactor
C 2 Pole 100 amp MAIN disconnect
D,E,F 2 Pole 30 amp breakers
G Photocell w/integral surge arrester variable voltage



WIRING DIAGRAM

GENERAL NOTES

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 9 m (30') from the edge of pavement. Exact location shall be established by the Engineer.

The underground service entrance wiring shall not exceed 46 m (150'). Total aerial and underground service between the control installation and primary transformer shall not exceed 76 m (250').

Raceways shall terminate 75 (3) above top of concrete foundation.

☐ 240 V. SERVICE
■ 480 V. SERVICE

All dimensions are in millimeters unless otherwise shown.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS:

CONTROL INSTALLATION TYPE CB-RCS-100

SCALE: VERT. NONE HORIZ.
DATE

DRAWN BY CNH
CHECKED BY LA

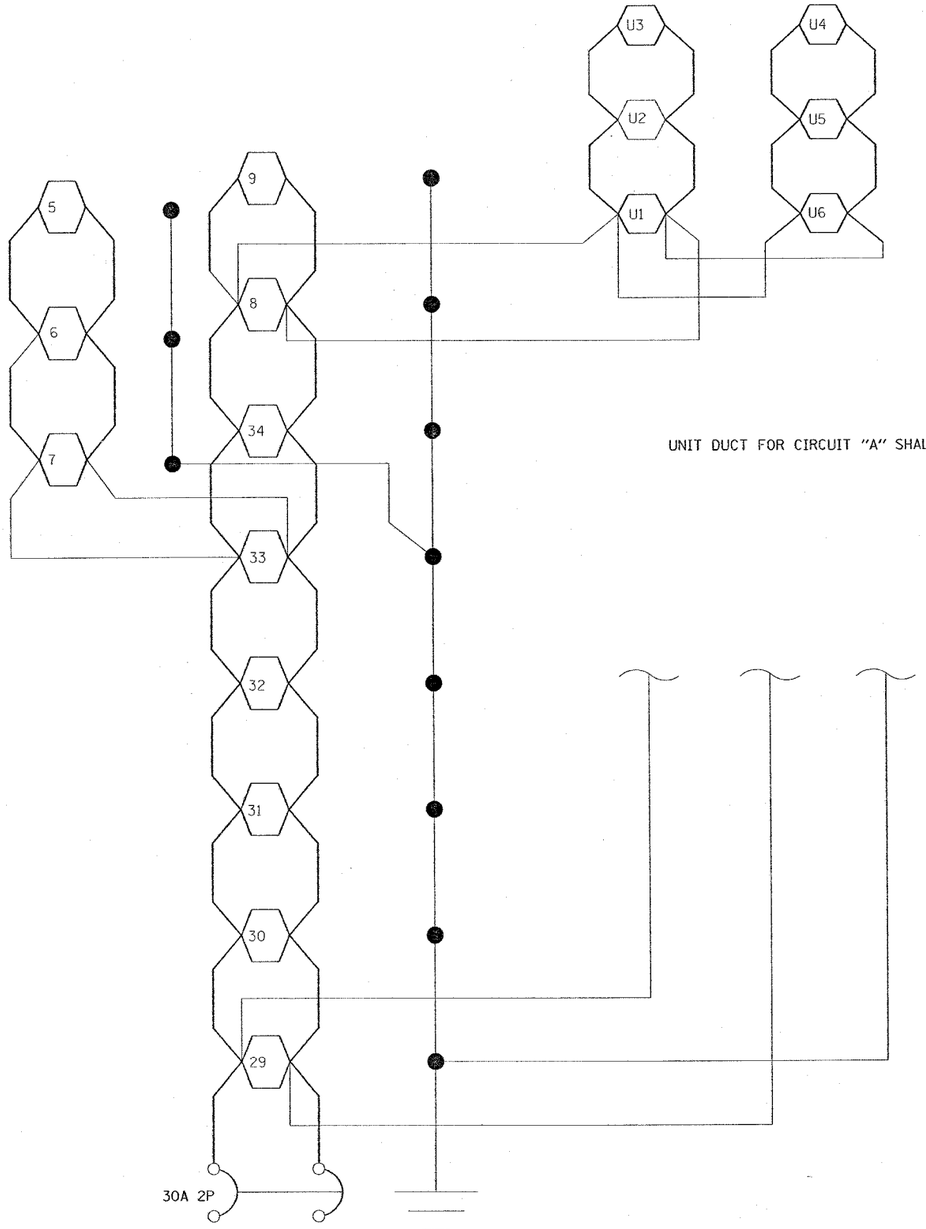
Rev. LGT005

PLOT DATE = 10/13/2006
FILE NAME = c:\proj_lets\d9802802\vol3\vol3p24.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = haefon

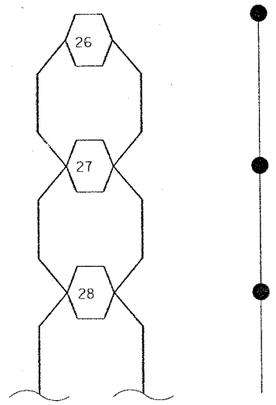
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	788
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



UNIT DUCT FOR CIRCUIT "A" SHALL BE 3 #8 IN 3/4 " P



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CIRCUIT "A"

SCALE: VERT. NONE HORIZ.
DATE

DRAWN BY CNH
CHECKED BY LA

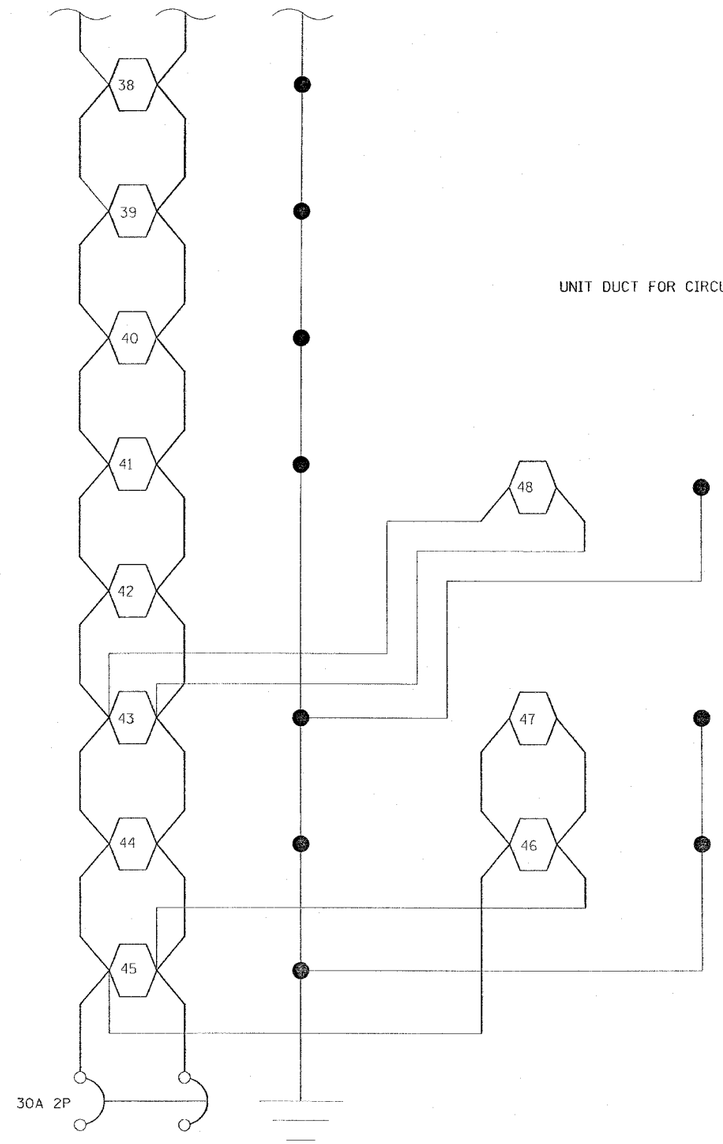
PLOT DATE = 11/28/2006
FILE NAME = c:\projects\e902082\old13\old13p12.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hesscn

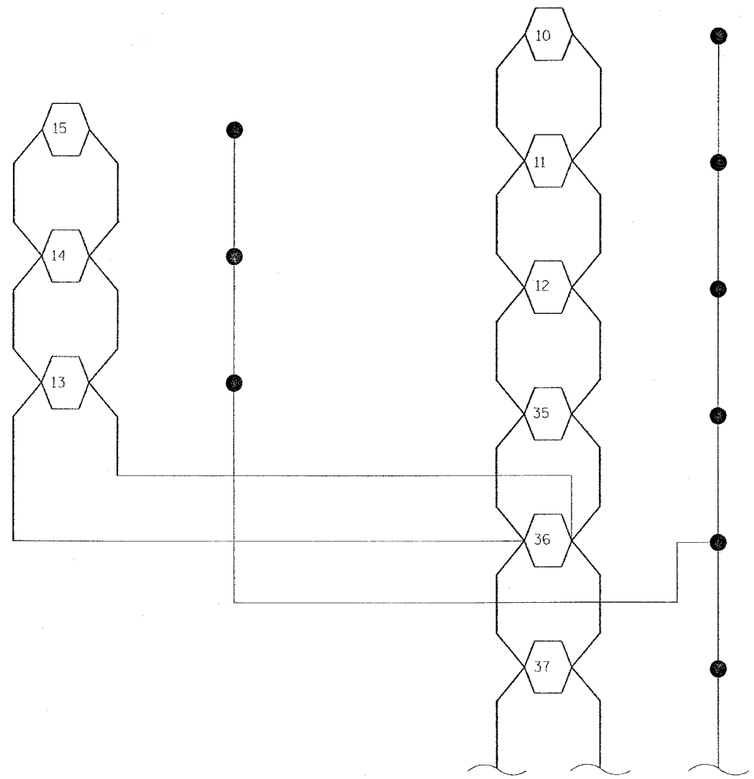
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	789
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

UNIT DUCT FOR CIRCUIT "B" SHALL BE 3 #4 IN 1" P





REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CIRCUIT "B"

SCALE: VERT. NONE
HORIZ.
DATE

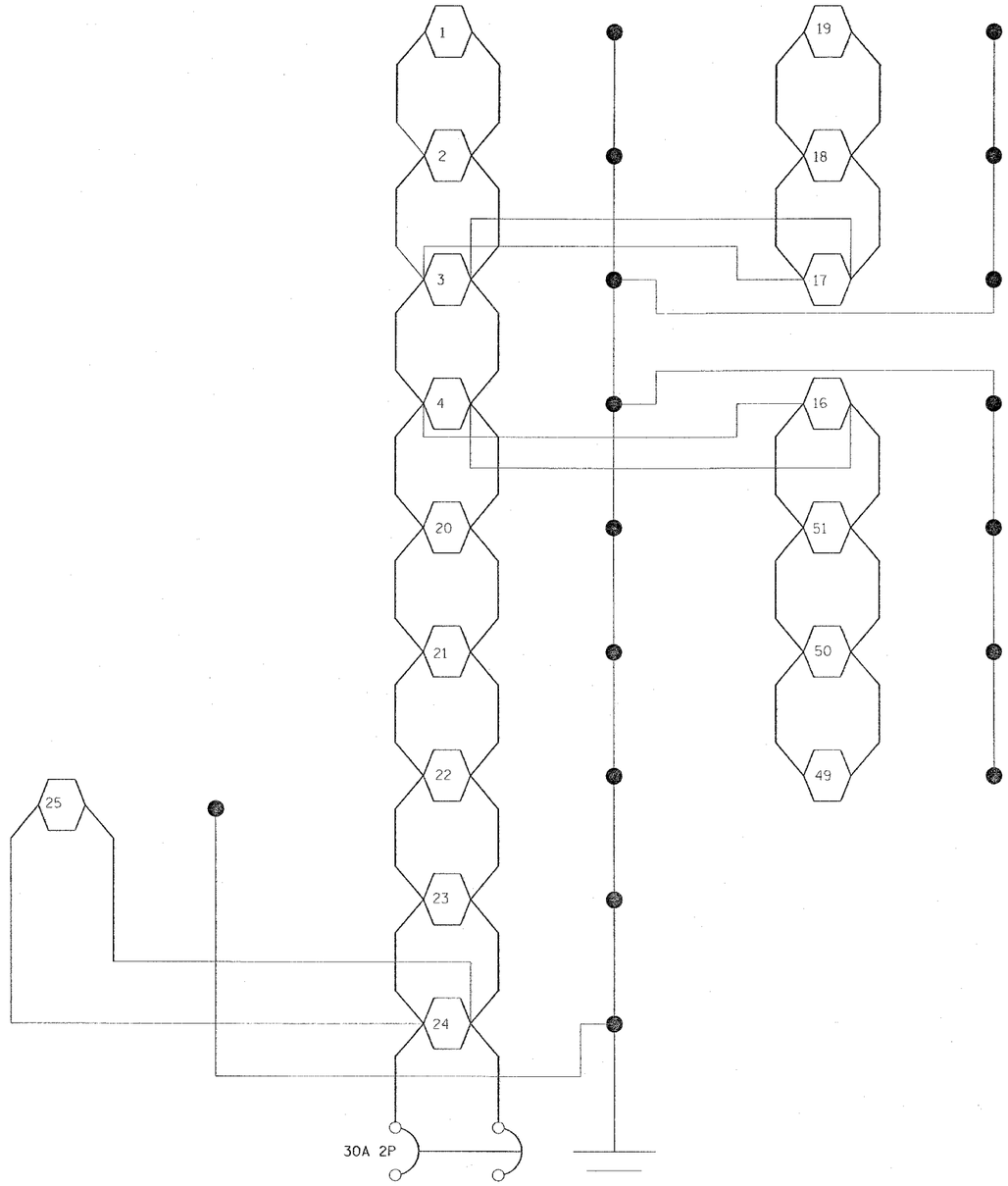
DRAWN BY CNH
CHECKED BY LA

PLOT DATE = 10/13/2005
FILE NAME = c:\projects\d902802\old13\old13s12.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = heasdon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	790
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



UNIT DUCT FOR CIRCUIT "C" SHALL BE 3 #6 IN 1" P

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CIRCUIT "C"

SCALE: VERT. NONE
HORIZ.
DATE

DRAWN BY CNH
CHECKED BY LA

PLOT DATE = 10/13/2006
FILE NAME = c:\projects\d702882c\cad\3\cdd13e12.dgn
PLOT SCALE = 80.0000 ' / IN
USER NAME = hesdon

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	*	WILLIAMSON	18	14
FED. ROAD DIST. NO.7	ILLINOIS	PROJECT		

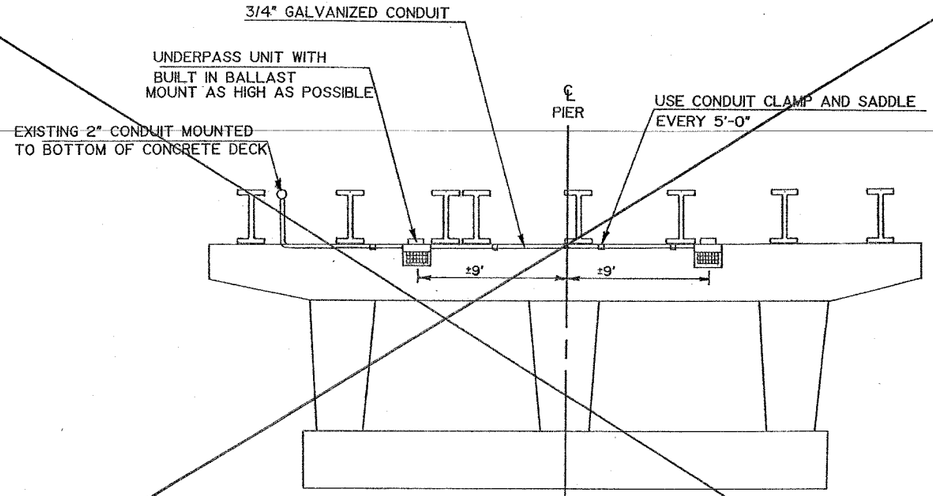
~~* (XI-6, XI-7-1) L-1~~

CONTRACT NO. 98950

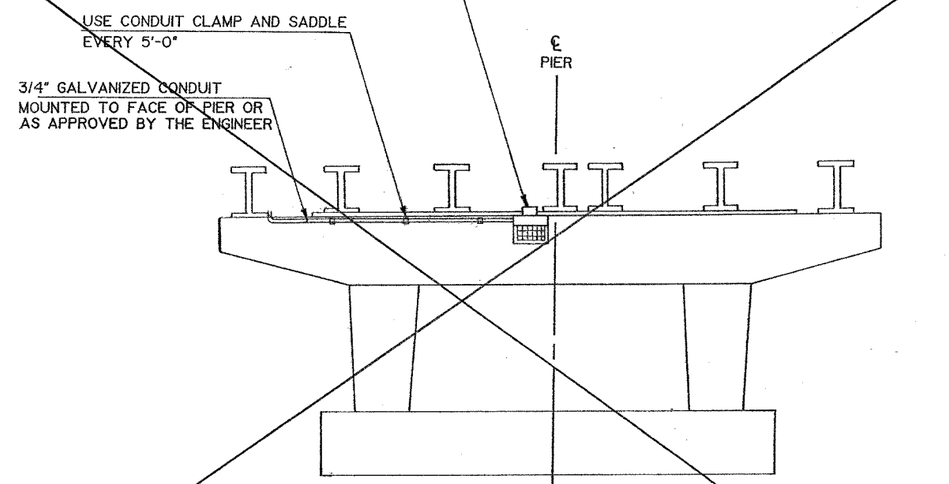
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	* *	WILLIAMSON	917	790A
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

+ I-57, & OLD IL 13 (FAU 9629)

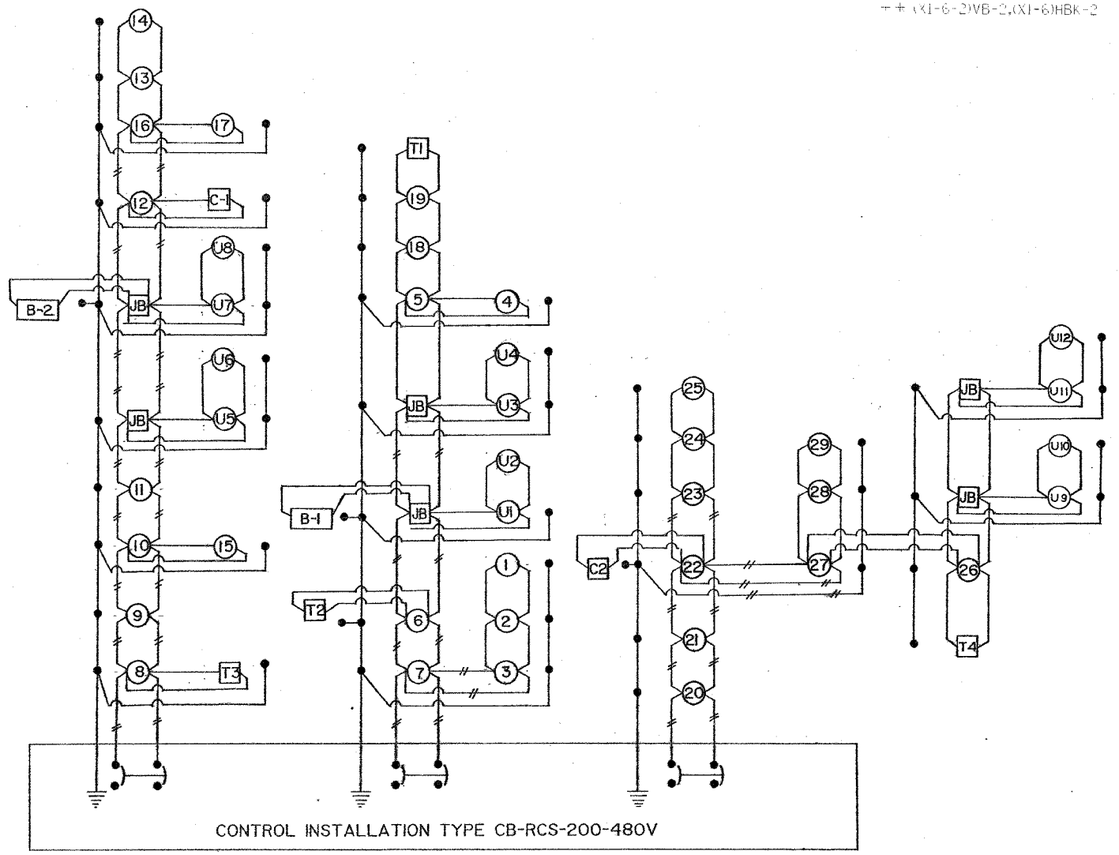
++ (XI-6-2)VB-2,(XI-6)HBK-2



TYPICAL ILLINOIS ROUTE 13 STRUCTURES
UNDERPASS LIGHTING
(MOUNTED ON FACE OF PIER)



TYPICAL OLD ROUTE 13 (MAIN STREET) STRUCTURES
UNDERPASS LIGHTING
(MOUNTED ON FACE OF PIER)



CONTROL INSTALLATION TYPE CB-RCS-200-480V

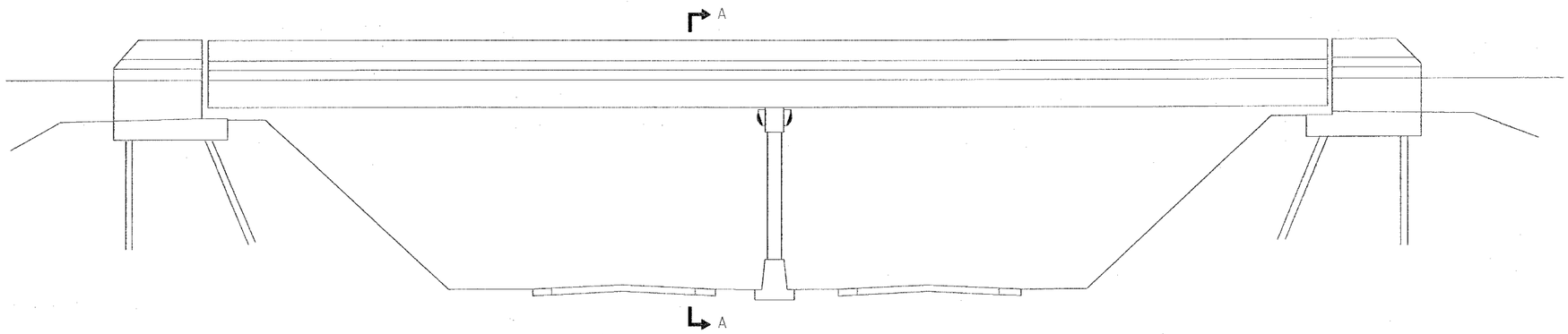
WIRING DIAGRAM
LOCATION NO. 1

FOR INFORMATION ONLY!

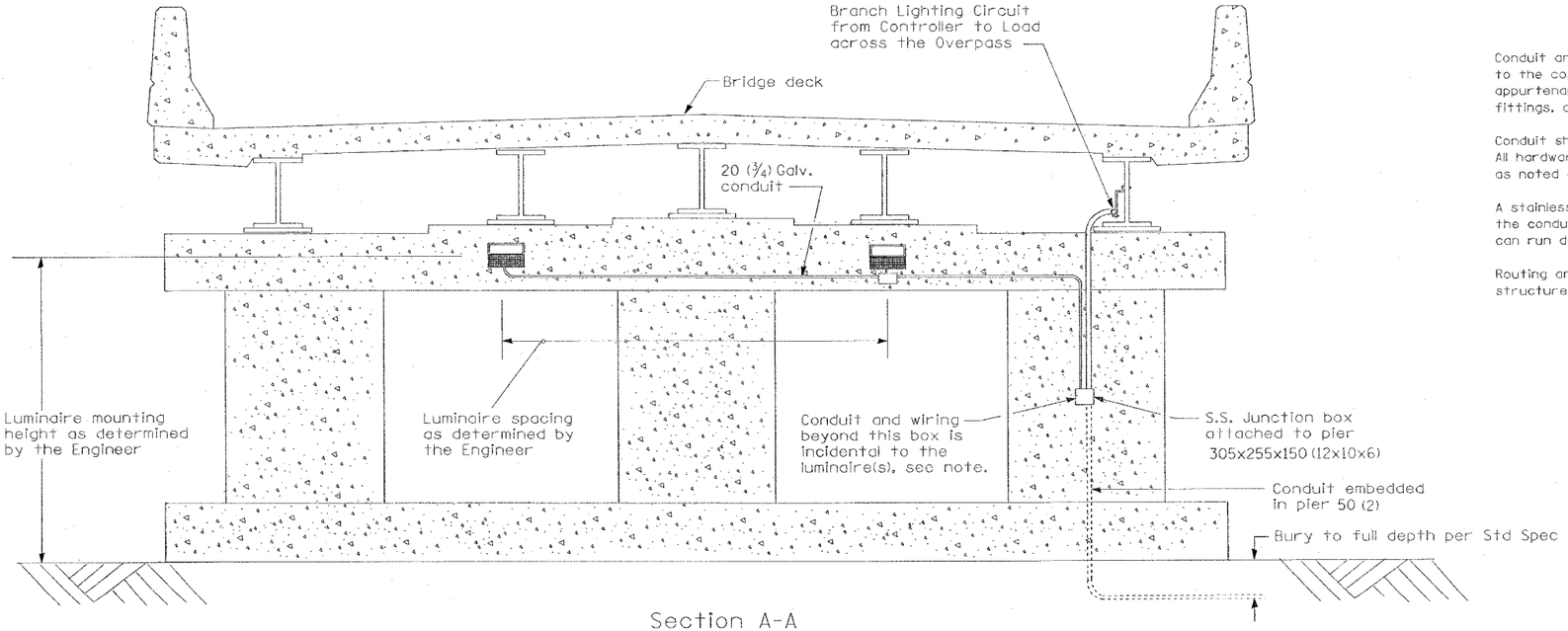
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	791
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



OVERPASS ELEVATION
(Not to Scale)



Section A-A
(Underpass Lighting on Pier)

GENERAL NOTES

Conduit and wiring 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, etc.

Conduit shall be rigid galvanized conduit unless noted otherwise. All hardware shall be stainless steel and all conduit appurtenances, as noted above, shall be hot dip galvanized or stainless steel.

A stainless steel junction box and flex conduit shall be installed in the conduit at any opening in the bridge deck where road salt can run down onto the conduit system.

Routing and method of attachment of the conduit on the bridge structure and across piers shall be as approved by the Engineer.

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

LGT019B.M32

REVISIONS	
NAME	DATE
Corrected	4/3/06

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS:
UNDERPASS LIGHTING WITH CENTER PIER

SCALE: VERT. NONE HORIZ.
DATE

DRAWN BY CNH
CHECKED BY LA

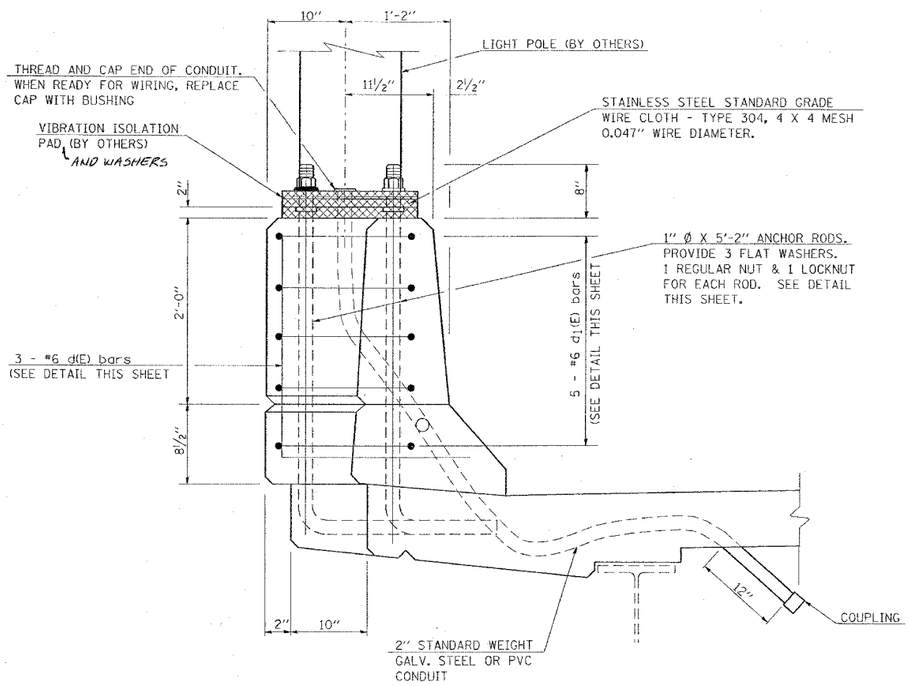
PLOT DATE = 10/13/2006
FILE NAME = e:\projects\d82282\xlsl3\xlsl3p12.dgn
PLOT SCALE = 63.0000 ' / IN.
USER NAME = headsn

CONTRACT NO. 98950

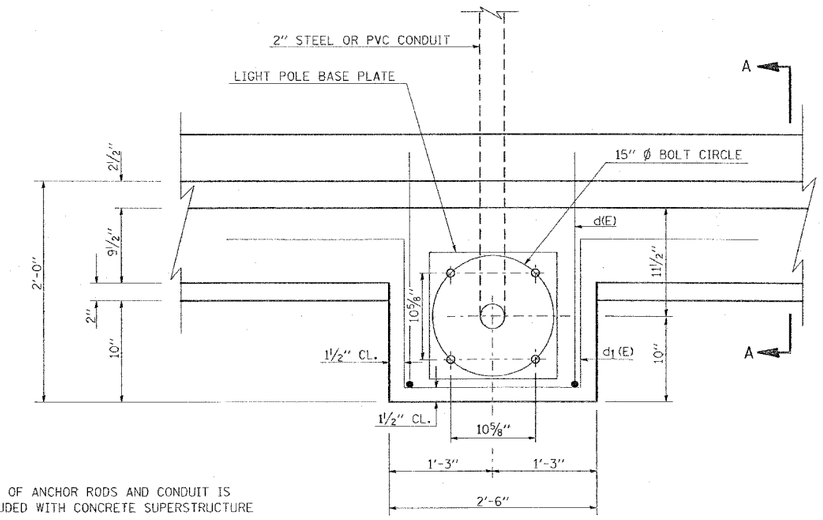
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	792
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

LIGHT POLE MOUNTED ON CONCRETE PARAPET



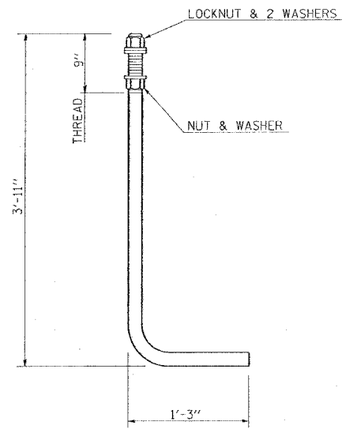
SECTION A-A



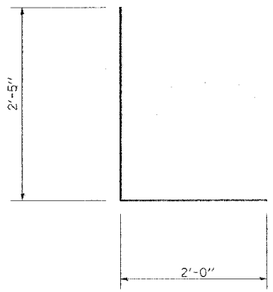
NOTE: COST OF ANCHOR RODS AND CONDUIT IS INCLUDED WITH CONCRETE SUPERSTRUCTURE

PLAN

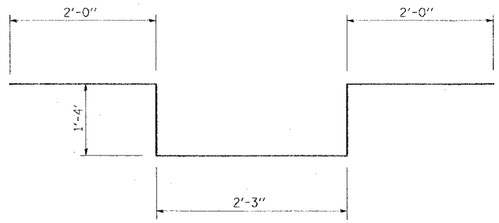
LIGHT PEDESTAL REINFORCEMENT



1" Ø ANCHOR ROD
(ASTM F 1554 GRADE 105)



BAR d(E)



BAR d_1(E)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS:

LIGHT POLE MOUNTED ON CONCRETE PARAPET
LIGHT PEDESTAL REINFORCEMENT

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY L.A

Rev.

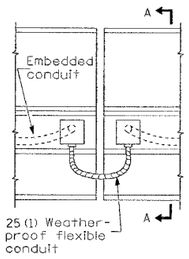
PLOT DATE = 10/13/2026
FILE NAME = e:\Projects\VHB2082\uld13\uld13d12.dgn
PLOT SCALE = 48.0000 ' / IN.
USER NAME = hendern

CONTRACT NO. 98950

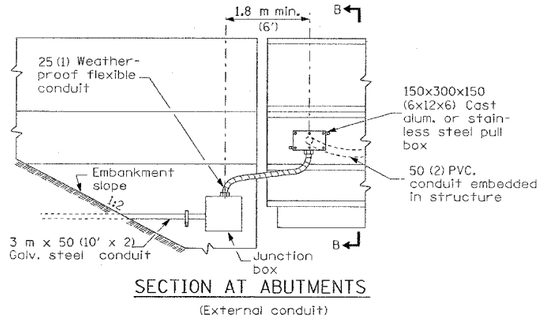
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	793
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (XI-6-2)VB-2,(XI-6)HBK-2

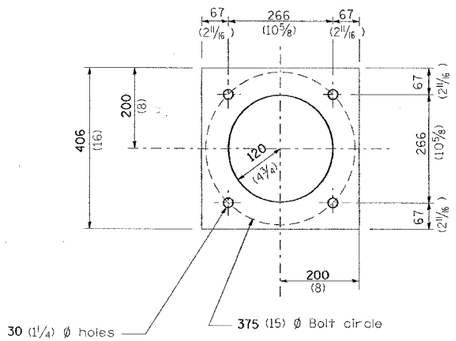
CONDUIT IN PARAPET DETAILS
SN 100-0087 (SB)



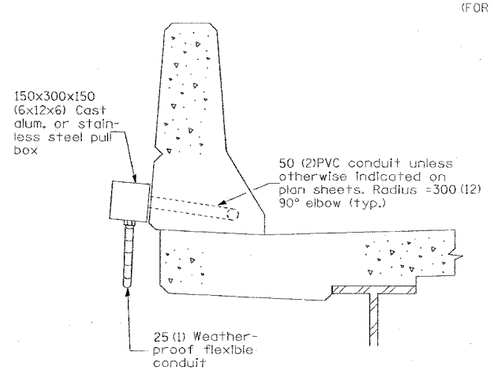
ELEVATION AT EXPANSION JOINT



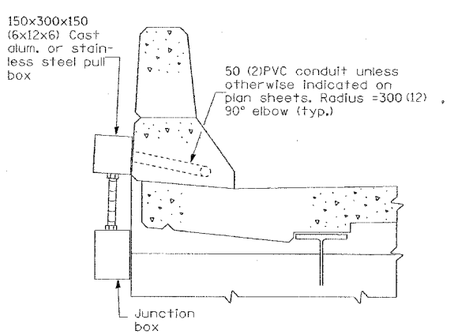
SECTION AT ABUTMENTS
(External conduit)



LEVELING PLATE AND VIBRATION MOUNTING PAD DETAIL
(FOR POLE WITH 406X406 (16X16) BASE PLATE)



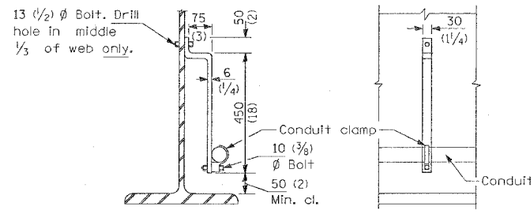
SECTION A-A



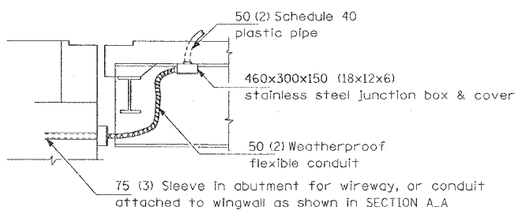
SECTION B-B

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

CONDUIT ATTACHED TO STRUCTURE DETAILS
SN 100-0084 (NB) AND SN 100-0085 (SB)



CONDUIT SUPPORT BRACKET



SECTION AT ABUTMENTS

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

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS:
CONDUIT IN PARAPET;
CONDUIT ATTACHED TO STRUCTURE

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/25/2006
FILE NAME = c:\projects\d9288\vol3\vol3p12.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = hedon

Contract 98950

SHEET NO.	REC.	COUNTY	TOTAL SHEETS	SHEET NO.
*		Williamson	917	793A.
FED. ROAD DIST. NO. 9	ILLINOIS	PROJECT		

*I-57 & OLD IL 13

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	24 FT
	Number Of Lanes	2
	Median Width	18 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	28,000
	IES Vertical Distribution	M
	IES Control Of Distribution	FC
	IES Lateral Distribution	III
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	175 FT
	Configuration	OPP.
	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})	9 Lux
	Uniformity Ratio, (E_{Ave}/E_{Min})	3
LUMINANCE:	Average Luminance: (L_{Ave})	0.6 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

ILLINOIS DEPARTMENT OF TRANSPORTATION
UNDERPASS LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	24 FT
	Number Of Lanes	2
	Median Width	18 FT
	IES Surface Classification	R3
	Q-Zero Value	.07
MOUNTING DATA:	Mounting Height	16 FT
	Set-Back From Edge Of Pavement	7.5 FT
	Mounting Type	Pier
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	16,000
	IES Vertical Distribution	S
	IES Control Of Distribution	NC
	IES Lateral Distribution	IV
	Maximum Candela Angle	75 DEG
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	50 FT
	Configuration	1 side only

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})	9 Lux
	Uniformity Ratio, (E_{Ave}/E_{Min})	3
LUMINANCE:	Average Luminance: (L_{Ave})	0.6 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

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	36 FT
	Number Of Lanes	3
	Median Width	40 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	20 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	28,000
	IES Vertical Distribution	M
	IES Control Of Distribution	FC
	IES Lateral Distribution	III
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	295 FT
	Configuration	OPP.
	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})	9 Lux
	Uniformity Ratio, (E_{Ave}/E_{Min})	3
LUMINANCE:	Average Luminance: (L_{Ave})	0.6 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

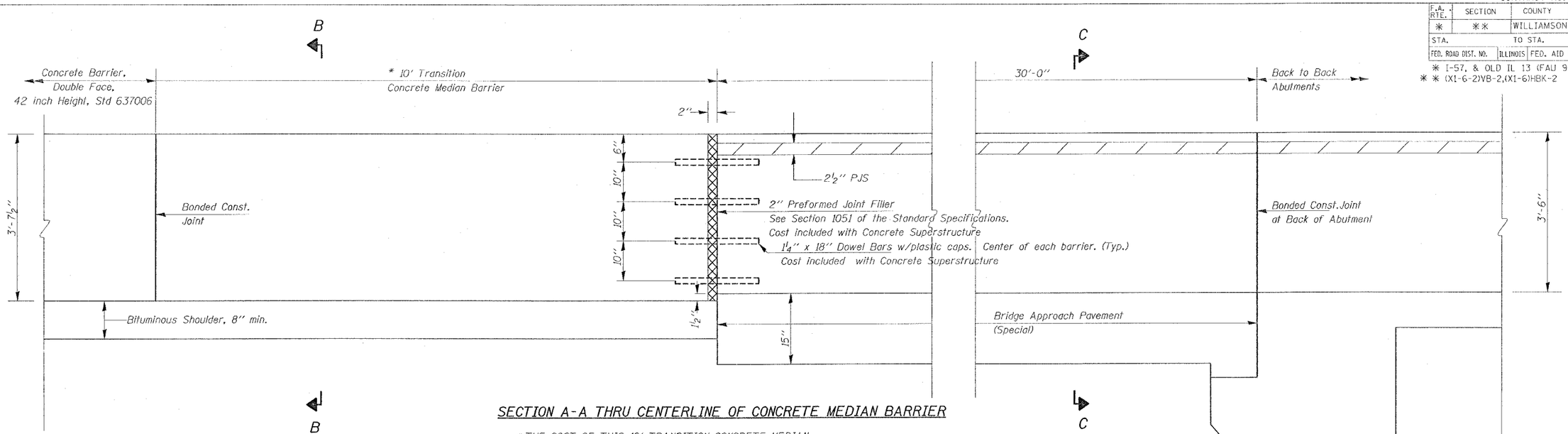
LIGHTING DETAILS
PERFORMANCE TABLES

I-57 & OLD IL 13
WILLIAMSON COUNTY

CONTRACT NO. 98950

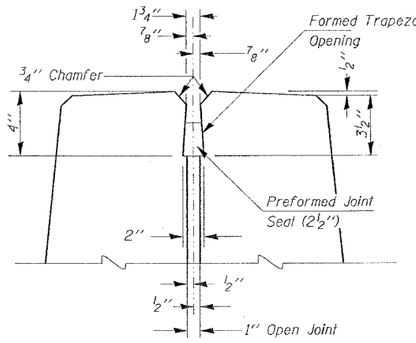
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	794
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

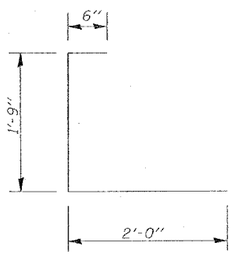


SECTION A-A THRU CENTERLINE OF CONCRETE MEDIAN BARRIER

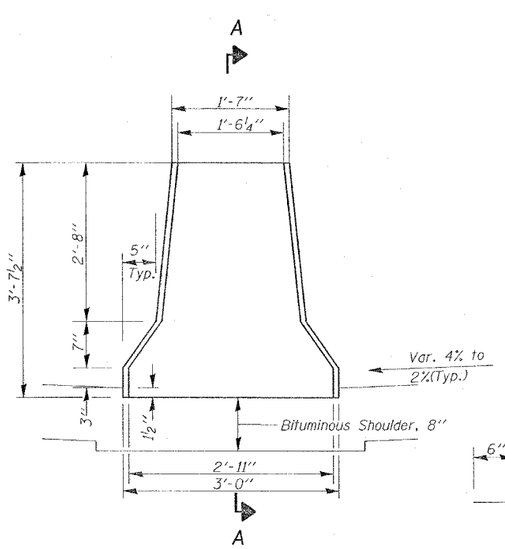
*THE COST OF THIS 10' TRANSITION CONCRETE MEDIAN BARRIER (FOUR LOCATIONS) SHALL BE INCLUDED IN THE OVERALL LENGTH MEASURED FOR CONCRETE BARRIER, DOUBLE FACE, 42 INCH HEIGHT. SEE SECTION 637 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



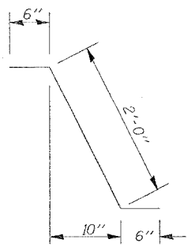
DETAIL A



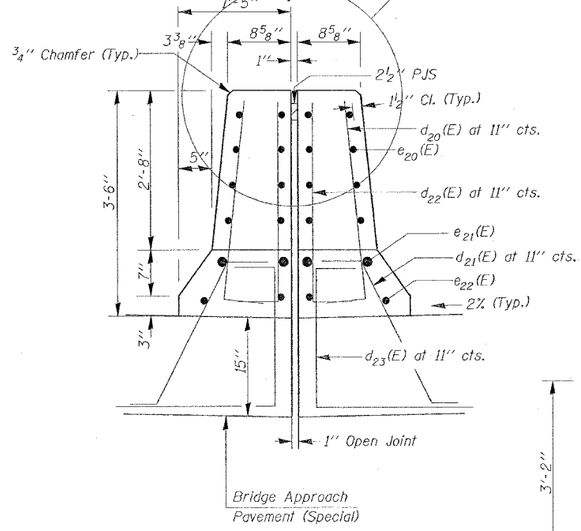
BARS d_{23}(E)



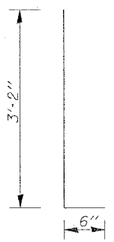
SECTION B-B



BARS d_{21}(E)



SECTION C-C



BARS d_{20}(E) & d_{22}(E)

BILL OF MATERIAL

(Four Locations)

Bar	No.	Size	Length	Shape
d_{20}(E)	272	#5	3'-8"	
d_{21}(E)	272	#5	3'-0"	
d_{22}(E)	272	#4	3'-8"	
d_{23}(E)	272	#4	4'-3"	
e_{20}(E)	64	#4	29'-8"	
e_{21}(E)	16	#8	29'-8"	
e_{22}(E)	16	#5	29'-8"	
Preformed Joint Seal 2½"		Foot		120
Concrete Superstructure		Cu. Yd.		29.8
Reinforcement Bars, Epoxy Coated		Lbs.		6360

Reinforcement bars designated (E) shall be epoxy coated.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

30' CONCRETE MEDIAN BARRIER ON THE BRIDGE APPROACH PAVEMENT (SPECIAL)

SCALE: VERT. HORIZ. NO SCALE
DATE
DRAWN BY WH
CHECKED BY

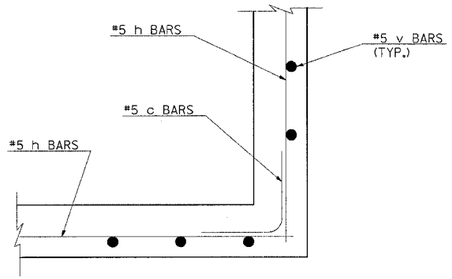
PLOT DATE = 10/13/2006
FILE NAME = e:\prop_sets\sht2002\old13\old13o3.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = Hesston

CONTRACT NO. 98950

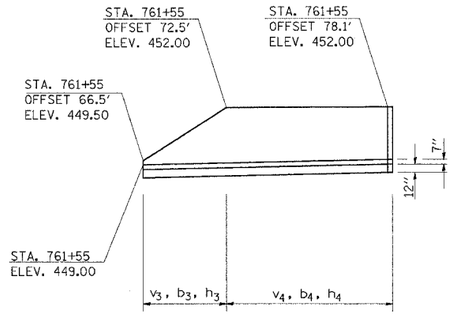
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	795
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

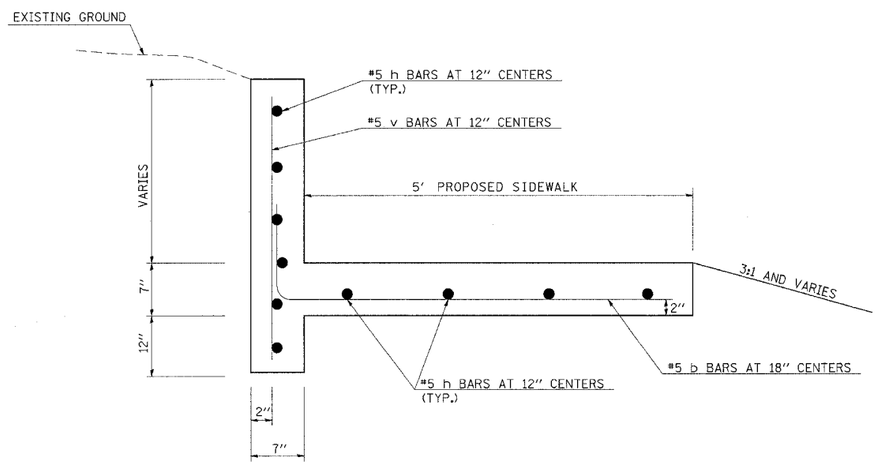
RETAINING WALL DETAIL



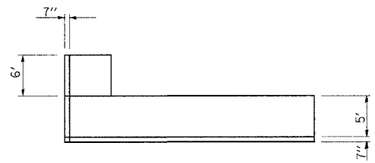
TO BE USED AT CORNER STA. 761+55



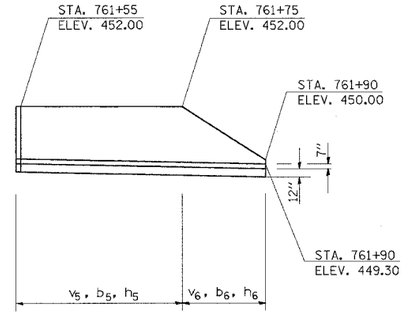
ELEVATION
RT. STA. 761+55
OFFSET 66.5' TO 78.1'



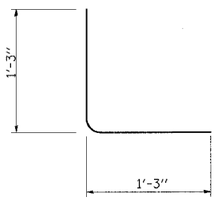
RETAINING WALL



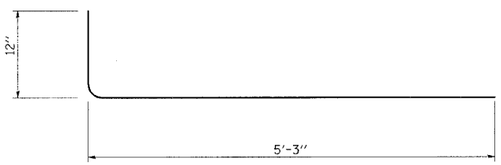
PLAN



ELEVATION
RT. STA. 761+55 TO STA. 761+90



c BAR



b BAR

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
c	11	#5	2.50'	L
v_3	6	#5	2.87' AVG.	———
b_3	4	#5	6.25'	L———
h_3	10	#5	7.08'	———
v_4	6	#5	3.95' AVG.	———
b_4	4	#5	6.25'	L———
h_4	11	#5	6.66'	———
v_5	20	#5	3.90' AVG.	———
b_5	14	#5	6.25'	L———
h_5	11	#5	21.08'	———
v_6	15	#5	2.90' AVG.	———
b_6	10	#5	6.25'	L———
h_6	10	#5	16.08'	———
REINFORCEMENT BARS			967	POUND
CONCRETE STRUCTURES			10.0	CU. YD.
PROTECTIVE COAT			1,220.0	SQ. YD.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAIL:
RETAINING WALL
RT. STA. 759+15 TO STA. 761+90

SCALE: VERT. NONE
HORIZ.
DATE

DRAWN BY CNH
CHECKED BY

PLOT DATE = 12/7/2006
FILE NAME = c:\projects\d9828\2\old13\old13c3.dgn
CELL SCALE = 0.020000 / IN.
USER NAME = nadeem

PAGES 796 + 797 NOT USED

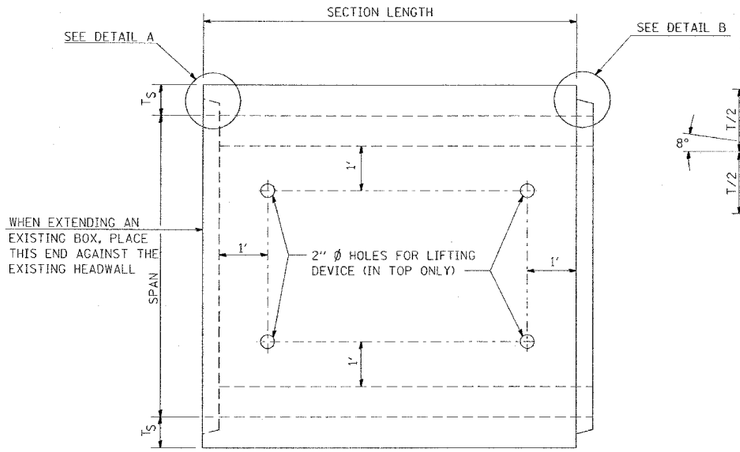
CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	798
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2

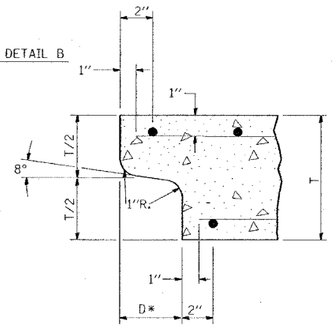
DETAIL OF PRECAST CONCRETE BOX CULVERT SECTION

(WITH LESS THAN 2 FEET OF COVER AASHTO DESIGNATION M273)
DESIGN LOADING: HS-20-44



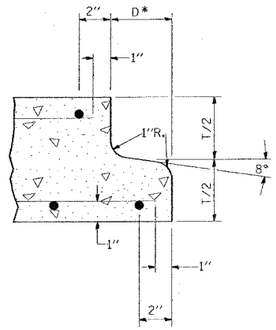
PLAN

LOCATION OF LIFTING HOLES MAY BE VARIED AS NEEDED TO CLEAR REINFORCEMENT.



DETAIL A

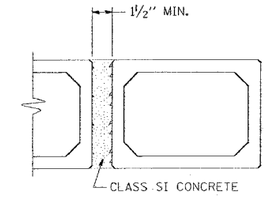
(TYP. INLET END)



DETAIL B

(TYP. OUTLET END)

NOTE: INLET AND OUTLET ENDS SHALL BE COMPATIBLE.
* THE D DIMENSION SHALL CONFORM TO THE MANUFACTURER'S STANDARDS.



MULTIPLE UNIT PLACEMENT

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04 OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 1055 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.

THE TERMS AS1, AS2, ETC. DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M273.

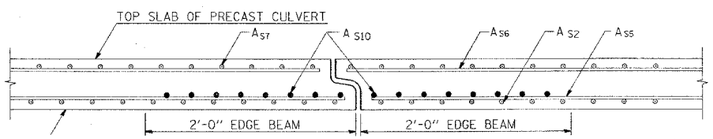
REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASTM SPECIFICATIONS A 185 OR A 497. LONGITUDINAL DISTRIBUTION REINFORCEMENT MAY CONSIST OF WELDED WIRE FABRIC OR DEFORMED BILLET-STEEL BARS CONFORMING TO AASHTO M-31, M-42, GRADE 60.

DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.12 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.

DIMENSIONS & EDGE BEAM REINFORCEMENT

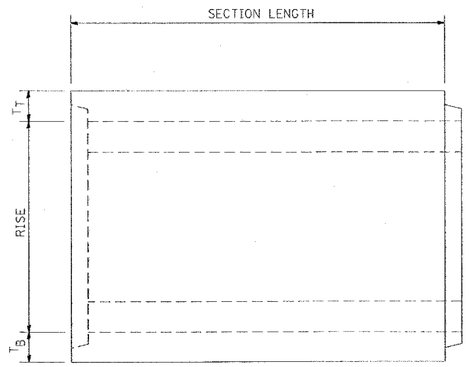
SPAN X RISE	DIMENSIONS (INCHES) T_T	T_B	T_S	EDGE BEAM REINF. AREA (IN.²/FT.) A_{S10}
3' X 2'	7	6	4	0.42
3' X 3'	7	6	4	0.42
4' X 2'	7½	6	5	0.59
4' X 3'	7½	6	5	0.59
4' X 4'	7½	6	5	0.59
5' X 3'	8	7	6	0.59
5' X 4'	8	7	6	0.59
5' X 5'	8	7	6	0.59
6' X 2'	8	7	7	0.73
6' X 3'	8	7	7	0.73
6' X 4'	8	7	7	0.73
6' X 5'	8	7	7	0.73
6' X 6'	8	7	7	0.73
7' X 4'	8	8	8	0.85
7' X 5'	8	8	8	0.85
7' X 6'	8	8	8	0.85
7' X 7'	8	8	8	0.85
8' X 4'	8	8	8	1.00
8' X 5'	8	8	8	1.00
8' X 6'	8	8	8	1.00
8' X 7'	8	8	8	1.00
8' X 8'	8	8	8	1.00

SPAN X RISE	DIMENSIONS (INCHES) T_T	T_B	T_S	EDGE BEAM REINF. AREA (IN.²/FT.) A_{S10}
9' X 5'	9	9	9	1.00
9' X 6'	9	9	9	1.00
9' X 7'	9	9	9	1.00
9' X 8'	9	9	9	1.00
9' X 9'	9	9	9	1.00
10' X 5'	10	10	10	0.89
10' X 6'	10	10	10	0.89
10' X 7'	10	10	10	0.89
10' X 8'	10	10	10	0.89
10' X 9'	10	10	10	0.89
10' X 10'	10	10	10	0.89
11' X 4'	11	11	11	0.89
11' X 6'	11	11	11	0.89
11' X 8'	11	11	11	0.89
11' X 10'	11	11	11	0.89
11' X 11'	11	11	11	0.89
12' X 4'	12	12	12	0.89
12' X 6'	12	12	12	0.89
12' X 8'	12	12	12	0.89
12' X 10'	12	12	12	0.89
12' X 12'	12	12	12	0.89

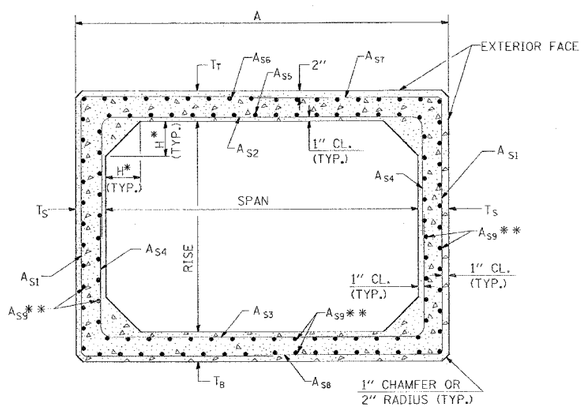


DETAIL OF EDGE BEAM

NOTE: THE A_{S10} REINFORCEMENT SHALL BE THE SAME LENGTH AS THE A_{S2}.



ELEVATION



CROSS SECTION

* THE HAUNCH DIMENSION, H, IS EQUAL TO THE WALL THICKNESS, T_S.
** THE AREA OF A_{S9} REINFORCEMENT SHALL BE BE A MINUMUM OF 0.12 SQ. IN./FT.

REVISIONS				
DRAWN	9-8-88	REVISED	12-17-01	
REVISED	3-27-90	REVISED		
REVISED	3-11-92	REVISED		
REVISED	8-16-94	REVISED		

STD. 9-49

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAIL:

PRECAST CONCRETE BOX CULVERT SECTION WITH LESS THAN 2' OF COVER

SCALE: VERT. NONE HORIZ.
DATE
DRAWN BY CNH
CHECKED BY

PLOT DATE = 10/13/2005
FILE NAME = c:\projects\c902882\sld13\sld13p3.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = headon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	* *	WILLIAMSON	917	799
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
* * (XI-6-2)VB-2,(XI-6)HBK-2

N S

BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)
BEFORE PLACING FINAL LIFT TO MAKE GORE REGION. EDGE OF PAVEMENT MILLING IS 0 THEN GOES TO THE DEPTH SHOWN.

℄ I-57 SB

1520+0(

+99.5

MILL 1½"

+50

MILL 1¾"

+00

MILL 2½"

+40

50' TRANSITION

+90

2%

9'-2½"

2%

12'-0"

11'-0"

10'-0"

4%

2%

6'-0"

5'-1½"

10'-5"

6'-11"

15'-0"

8'-9½"

10'-1"

18'-6"

EDGE OF PAVEMENT

4%

MILL 2¾"

VAR.

15+00

+40

SAW CUTS
PAVEMENT REMOVAL
SEE DRAINAGE SYSTEM DETAIL SHEET --

℄ RAMP F

BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)
BEFORE PLACING SURFACE COURSE LIFT TO CORRECT PROFILE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MILLING DETAIL RAMP F

SCALE: VERT. 10
HORIZ.
DATE

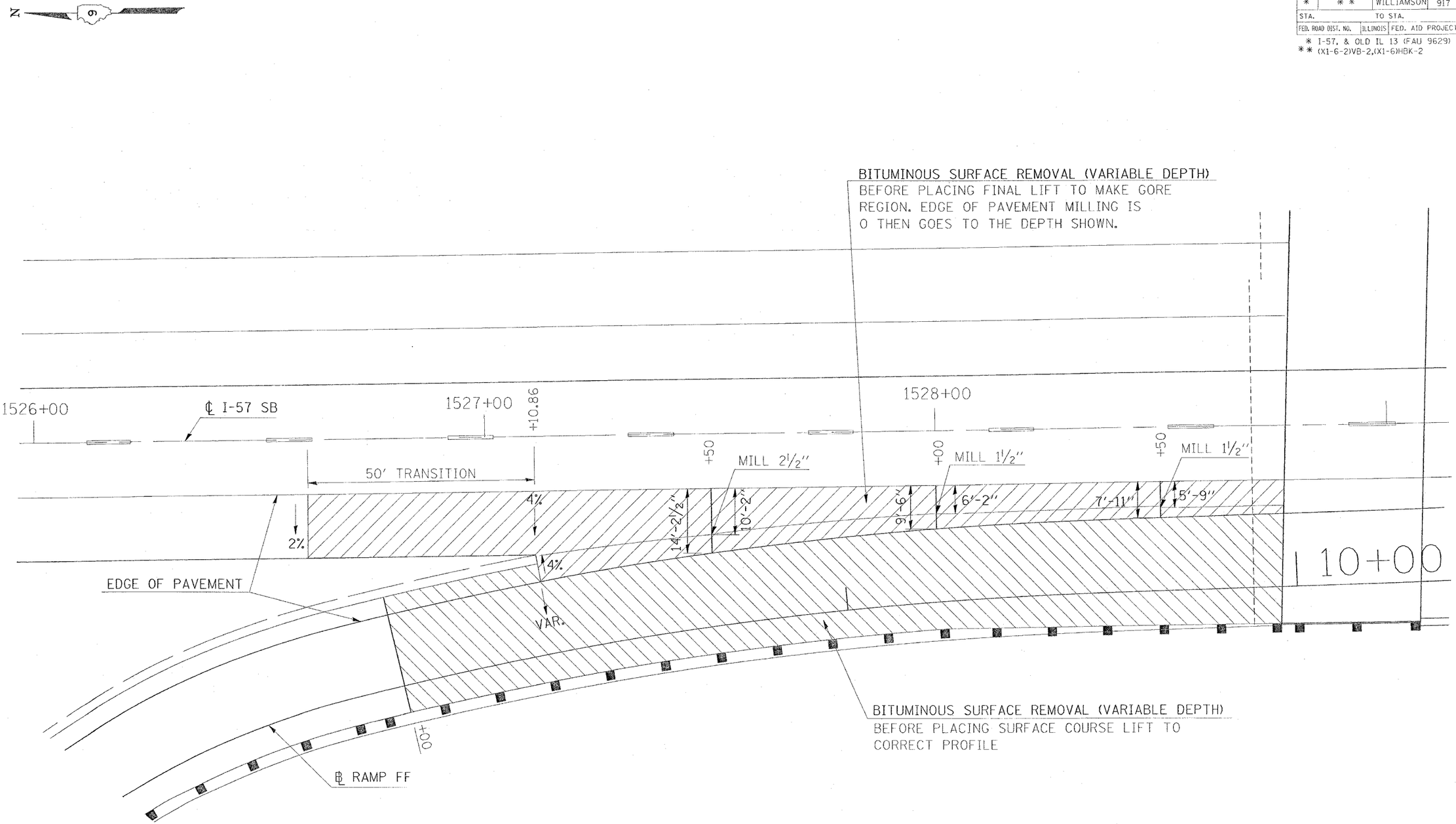
DRAWN BY CNH
CHECKED BY

DATE = 10/14/2005
FILE NAME = c:\projects\ed9928032\old13\old13s2.dgn
PLOT SCALE = 10.0000 '/ IN.
USER NAME = hsedon

CONTRACT NO. 98950

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	WILLIAMSON	917	800
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MILLING DETAIL RAMP FF

SCALE: VERT. 10
HORIZ.
DATE

DRAWN BY CNH
CHECKED BY

PL. DATE = 10/14/2005
FILE NAME = e:\pro_jects\o92282\old3\old3a2.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = hawdon