STA 12+02.00 (RAMP A)
PROPOSED 2-PIPE
CULVERT, 24"

STA 25+48.31
PROPOSED PRECAST BOX
CULVERTS, 4' X 2'
W/ BOX CULVERT END
SECTIONS CULVERT NO. 3
USFL 565.90
DSFL 565.39

(17A) STA 2156+85.40, 12.00' RT
PROPOSED MANHOLES, TYPE A 5' DIAMETER,
TYPE 1 FRAME, CLOSED LID WITH FLAT TOP SLAB
GR 570.70
FL 564.76 (24")
FL 563.05 (24" EXTST)

EXISTING PIPE
CULVERT PARTIALLY
REMOVED AND
REMAINDER ABANDONED

PROPOSED STORM
SEWER, 15"

PROPOSED STORM SEWER
CLASS A, TYPE 2, 24" WITH
PRECAST REINFORCED CONCRETE
FLARED END SECTIONS, 24

PROPOSED PIPE DRAIN, 24"
WITH CONCRETE ANCHORS,
CONCRETE THRUST BLOCKS
AND METAL END SECTIONS, 24"
USFL=554.14
DSFL=542.07

PROPOSED STONE
RIPRAP, CLASS A4

CONSTRUCTION LIMITS

PROPOSED STORM SEWER
CLASS A, TYPE 1, 15" WITH
PRECAST REINFORCED CONCRETE
FLARED END SECTIONS, 15"

EXISTING SIGN TRUSS

PROPOSED SIGN
TRUSS

PROPOSED STORM
SEWER, CLASS A,
TYPE 2, 15"

(18) STA 2158+25.00, 0.00'
PROPOSED DRAINAGE STRUCTURES,
TYPE 5 WITH TWO TYPE 22
FRAME AND GRATE
GR 569.59
FL 564.13

(19) STA 2160+75.00, 0.00'
PROPOSED DRAINAGE STRUCTURES,
TYPE 5 WITH TWO TYPE 22
FRAME AND GRATE
GR 568.57
FL 560.66

(21) STA 2163+25.00, 0.00'
PROPOSED DRAINAGE STRUCTURES,
TYPE 5 WITH TWO TYPE 22
FRAME AND GRATE
GR 567.96
FL 561.27

(23) STA 2165+75.00, 0.00'
PROPOSED DRAINAGE STRUCTURES,
TYPE 5 WITH TWO TYPE 22
FRAME AND GRATE
GR 567.75
FL 561.88

EXISTING ROW LINE

PROPOSED STONE
RIPRAP, CLASS A4

STA 2162+03.41, NO SKEW
EXISTING 84" PIPE CULVERT TO BE LINED
WITH INSERTION CULVERT LINER, 72" AND
EXTENDED ON BOTH SIDES WITH PROPOSED
PIPE CULVERT, CLASS A, TYPE 2, 84"
(WITH CONNECTION COLLAR)
WITH PRECAST REINFORCED CONCRETE
FLARED END SECTIONS, 84"
USFL=539.27
DSFL=535.76

PROPOSED STONE
RIPRAP, CLASS A5

PROPOSED STORM SEWER,
CLASS A, TYPE 2, 15"

PROPOSED STORM SEWER,
CLASS A, TYPE 2, 15"

STA 2168+06.13, SKEW 30.19°
EXISTING 10'x7' CONCRETE BOX
CULVERT TO BE EXTENDED ON
BOTH SIDES WITH PROPOSED
CONCRETE BOX CULVERTS, 10'x7'
USFL=541.67
DSFL=540.23

PROPOSED STORM SEWER,
CLASS A, TYPE 1, 15"

MATCH LINE STA. 2155+00.00

MATCH LINE STA. 2170+00.00

WB FAI ROUTE 57/70

EB FAI ROUTE 57/70

OVERHEAD SIGN

PROPOSED STORM SEWER,
CLASS A, TYPE 2, 24"

RAMP A

RAMP B

24" RCCP

10' X 7' RCBC

(16A) STA 2155+75.00, 0.00'
PROPOSED DRAINAGE
STRUCTURES, TYPE 5
WITH TWO TYPE 22
FRAME AND GRATE
GR 571.01
FL 565.54

PROPOSED
STORM SEWER,
CLASS A,
TYPE 2, 24"

EXISTING INLET
AND 24" PIPE
CULVERT TO BE
PARTIALLY REMOVED

PROPOSED STONE
RIPRAP, CLASS A4

(16B) STA 2156+12.00, 12.00' RT
PROPOSED MANHOLES, TYPE A 5'
DIAMETER, TYPE 1 FRAME, CLOSED
LID WITH FLAT TOP SLAB
GR 571.25
FL 565.76

STA 28+43.97
PROPOSED PRECAST BOX CULVERTS, 4' X 3'
W/ BOX CULVERT END SECTIONS
CULVERT NO. 4
USFL 562.08
DSFL 558.61

PROP. FAYETTE RAMP A
CURVE CS3
PI STA = 12+14.41
Δ = 31° 30' 34" (RT)
D = 7° 32' 20"
R = 760.00'
T = 214.41'
L = 417.96'
E = 29.67'
e = 8.00%
T.R = 48.00'
S.E. RUN = 255.00'
P.C. STA = 10+00.00
P.T. STA = 14+17.96
SE ATTAINED STA 8+60.00
TO STA 10+70.00 (2.00% TO 8.00%)
SE REMOVED STA 13+32.96
TO STA 15+90.50 (8.00% TO 0.0%)

EARTH DITCH CHECK

CONSTRUCTION LIMITS

PROPOSED PIPE DRAIN, 24"
WITH CONCRETE ANCHORS,
CONCRETE THRUST BLOCKS
AND METAL END SECTIONS, 24"
USFL=562.00
DSFL=547.00

PROPOSED STORM SEWER,
CLASS A, TYPE 2, 24"

PROPOSED STONE
RIPRAP, CLASS A4

PROP. FAYETTE RAMP B
CURVE E1
PI STA = 18+49.11
Δ = 21° 34' 00" (RT)
D = 7° 32' 20"
R = 760.00'
T = 144.75'
L = 286.07'
E = 13.66'
e = 8.00%
T.R = N/A
S.E. RUN = 207.00'
P.C. STA = 17+04.36
P.T. STA = 19+90.43
SE ATTAINED STA 15+82.36
TO STA 17+89.36 (1.50% TO 8.00%)
SE REMOVED STA 18+60.43
TO STA 21+90.42 (8.00% TO 3.26%)

PROPOSED STORM SEWER,
CLASS A, TYPE 2, 24"

PROPOSED STONE
RIPRAP, CLASS A3

PROPOSED STONE
RIPRAP, CLASS A4

PROPOSED STORM SEWER,
CLASS A, TYPE 2, 24"

PROPOSED
CANTILEVER
SIGN TRUSS

(25) STA 2168+25.00, 0.00'
PROPOSED DRAINAGE STRUCTURES,
TYPE 5 WITH TWO TYPE 22
FRAME AND GRATE
GR 567.95
FL 562.49

(82) STA 2158+25.00, 73.63' LT'
PROPOSED INLET, TYPE A,
TYPE 1 FRAME, OPEN LID
GR 570.09
FL 567.29

PROPOSED STORM
SEWER, CLASS A,
TYPE 2, 24"

EX. PIPE
TO BE ABANDONED

PROPOSED STORM SEWER,
CLASS A, TYPE 2, 24"

PAVED
DITCH

PROPOSED STONE
RIPRAP, CLASS A4

CONSTRUCTION LIMITS

NOTE: FOR MEDIAN STORM SEWER PROFILE INFORMATION, SEE STORM SEWER PROFILE SHEETS.

NOTE: STATIONING OF RAMP A IS REVERSED

NOTE: FOR DRAINAGE STRUCTURE INFORMATION ON RAMPS A & B, SEE RAMP DRAINAGE PLAN AND PROFILE SHEETS.

NOTE: FOR STRUCTURES 19A, 20, 22, 24, 26, AND 28 SEE DRAINAGE PLAN AND PROFILE SHEET 12 OF 12.

NOTE: FOR CLARITY THE MEDIAN CONCRETE BARRIER HAS NOT BEEN PRESENTED ON THE DRAINAGE SHEETS.

0 50' 100'

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

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

3,000.00' V.C.

EXISTING WESTBOUND PROFILE
PROPOSED PROFILE
EXISTING EASTBOUND PROFILE

570
565
560
555
550
545

STA 2155+00.00
ELEV 569.16

SPECIAL DITCH
LT SLOPE 1.01%

STA 2155+57.43
ELEV 563.16

SPECIAL DITCH RT
SLOPE -3.07%

STA 2155+85.93
ELEV 562.25

STA 2155+92.80
4' x 3' BOX CULVERT
ELEV 562.08

STA 2156+00.00
ELEV 570.17

SLOPE -3.94%

STA 2156+50.00
ELEV 570.32

SPECIAL DITCH LT
SLOPE 0.30%

STA 2156+85.44
EXIST. ELEV 563.24

STA 2156+79.02
4' X 3' BOX CULVERT
ELEV 558.61

STA 2157+13.76
ELEV 564.97

SPECIAL DITCH
LT SLOPE -0.30%

STA 2159+00.00
ELEV 566.34

STA 2159+50.00
ELEV 564.26

STA 2160+00.00 ELEV 562.00

STA 2160+00.00
PIPE DRAIN, 24"
ELEV 562.00

STA 2160+50.00
PIPE DRAIN, 24"
ELEV 547.00

SPECIAL DITCH RT
SLOPE -4.34%

SLOPE -5.96%

SPECIAL DITCH LT

SLOPE 561.19%

STA 2161+35.19
PIPE DRAIN, 24"
ELEV 554.14

STA 2161+35.19
EXISTING 12" RCP
TO BE REMOVED

SLOPE 20.82%

STA 2161+89.65
PIPE DRAIN, 24"
ELEV 542.07

STA 2162+03.41
EXISTING 84" RCCP
ELEV 537.49

STA 2162+50.00 ELEV 535.30

STA 2164+00.00
ELEV 564.97

SPECIAL DITCH RT
SLOPE = -2.50%

1.01%

40.86%

VIF STA 2164+03.88
ELEVATION 563.25

STA 2166+00.00
ELEV 559.97

SPECIAL DITCH RT
SLOPE = -3.51%

STA 2167+19.32
EXISTING 24" RCCO
TO BE ADANDONED
ELEV 562.76

STA 2167+50.00
ELEV 554.70

SPECIAL DITCH RT
SLOPE -14.40%

STA 2168+00.00
ELEV 547.50

STA 2167+27.62 ELEV 540.28

STA 2168+06.13
EXISTING 10'X7' BOX CULVERT
ELEV 540.93

SPECIAL DITCH LT SLOPE 1.74%

SPECIAL DITCH LT SLOPE -1.04%

	LEFT DITCH ELEV	RIGHT DITCH ELEV
2155+00	569.16	EXIST WB ELEV. 32' LEFT EXIST EB ELEV. 32' RIGHT
2156+00	569.56	573.67 573.27 573.73 572.26
	569.97	573.27 573.73 571.91
	570.23	572.99 573.43 571.59
2157+00	572.72 572.15 571.28	
	572.45 572.86 570.99	
	572.19 572.63 570.71	
2158+00	564.86	571.83 572.39 570.45
	564.71	571.71 572.16 570.21
	564.56	571.53 571.93 569.96
2159+00	564.41	566.34 571.31 571.70 569.77
	564.26	564.17 571.06 571.48 569.57
	561.53	562.00 570.82 571.26 569.39
2160+00	556.80	570.60 571.05 569.23
	556.06	570.42 570.81 569.08
2161+00	535.30	570.25 570.57 568.95
	535.82	570.06 570.46 568.84
2162+00	536.34	569.90 570.37 568.74
	536.86	569.84 570.39 568.66
2163+00	537.39	569.78 570.41 568.59
	537.91	569.71 570.38 568.54
2164+00	538.43	569.64 570.34 568.51
	538.95	569.63 570.24 568.50
2165+00	539.47	569.62 570.14 568.49
	539.99	569.65 570.10 568.51
2166+00	540.67	569.68 570.06 568.54
	541.54	569.71 570.08 568.59
2167+00	542.41	569.74 570.10 568.66
	543.29	569.83 570.17 568.74
2168+00	544.16	569.93 570.24 568.83
		570.03 570.32 568.95
2169+00		570.13 570.41 569.08
2170+00		

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\drn_pp_5770.dgn	USER NAME = betsy	DESIGNED - JWS	REVISED -	
		DRAWN - PDB	REVISED -	
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -	
	PLOT DATE = 3/21/2011	DATE - 4-08-08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 4 OF 12 SHEETS | STA. 2155+00.00 TO STA. 2170+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	162
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		