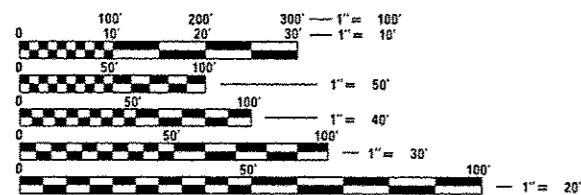


01-15-2016 LETTING ITEM 074
INDEX

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- 2 GENERAL NOTES & LOCATION MAP
- 3-6 SUMMARY OF QUANTITIES
- 7 TYPICAL SECTIONS
- 8-9 SCHEDULES
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- 26-29 DETAILS
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LIST OF ILLINOIS DOT HIGHWAY STANDARDS

- BLR 21-9 TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-08 PAVEMENT JOINTS
- 666001-01 RIGHT-OF-WAY MARKERS
- 667101-02 PERMANENT SURVEY MARKERS
- 701001-02 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701901-04 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 701304-03 LANE CLOSURE 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH



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

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

PROJECT ENGINEER: CRAIG REED, P.E.
PROJECT MANAGER: PAT BRABOY, P.E.

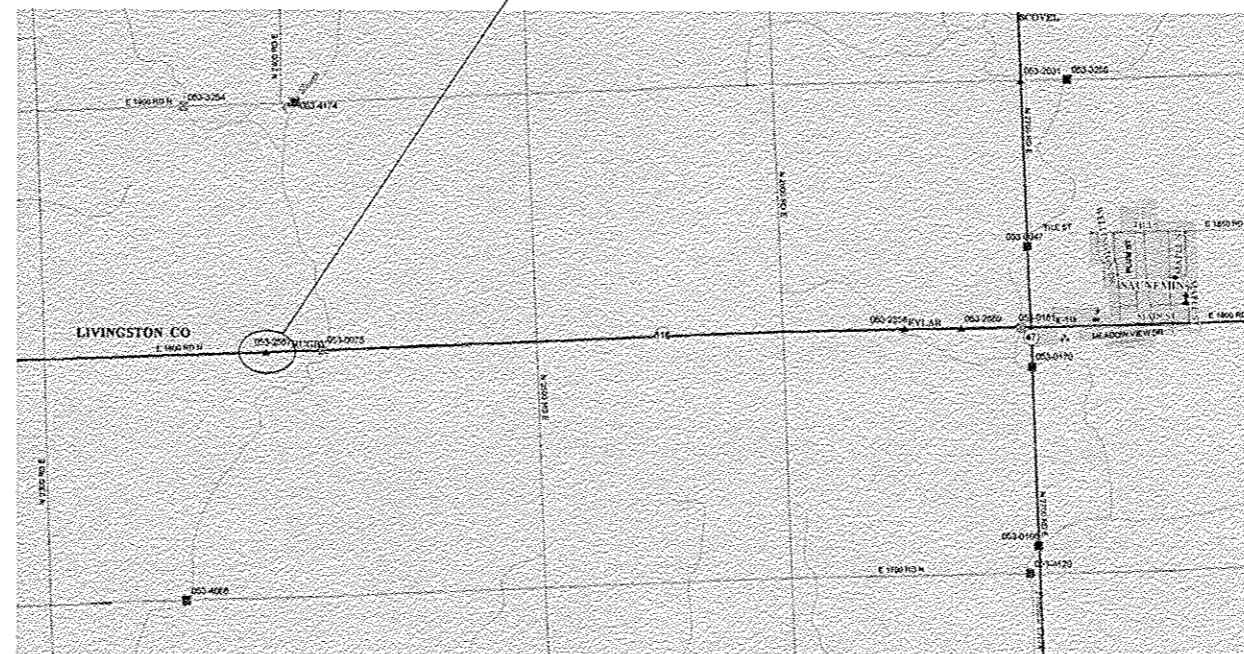
CONTRACT NO. 66C19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 681 (IL 116)
SECTION (113)CR
PROJECT : ACF-0681(046)
TYPE of IMPROVEMENT: CULVERT REPLACEMENT
LIVINGSTON COUNTY

C-93-102-13

PROJECT LOCATION
STA 422+25 TO STA 425+50
EXIST. SN 053-2557
PROP SN 053-2580



GROSS LENGTH = NET LENGTH = 325.00 FT. = 0.06 MILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	113)CR	LIVINGSTON	33	1
ILLINOIS			CONTRACT NO. 66C19	

P-93-032-12
D-93-047-13



FUNCTIONAL CLASSIFICATION-
RURAL (MINOR ARTERIAL)

2013 ADT-2340 VPD
PV = 68.5 SU = 3.8% MU = 27.7%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED August 12, 2015
Paul Locto, DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Dec 4, 2015
John D. Baranzelli, ENGINEER OF DESIGN AND ENVIRONMENT
Dec 4, 2015
Omer Osman, DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

Rev.

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK WILL BE INCLUDED IN THE COST OF THE HMA SURFACE.

THE BASE COURSE WIDENING SHALL BE CARRIED THROUGH ALL ENTRANCES, SIDE ROADS, AND MAILBOX TURNOUTS. EXCEPTIONS WILL BE SHOWN ON THE PLANS.

EXCEPT AS NOTED ON THE PLANS, PAYEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDDED WILL BE DETERMINED BY THE ENGINEER.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ADDITIONAL LEVELING BINDER, AT THE RATE GIVEN ON THE TYPICAL SECTIONS, HAS BEEN ADDED TO THE QUANTITIES TO CORRECT TO A 3/16" / FT. (1.5%) CROWN ON SECTIONS OF EXISTING ROADWAYS.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
AGGREGATE DITCH CHECKS	5	TONS AGGREGATE

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

**COMMITMENTS:
ENVIRONMENTAL COORDINATION**

**WORK AREA
EXIST SN 053-2557
PROP SN 053-2580**

EAST 1900 RD N

EAST 1700 RD N

N 2300 RD E

N 2500 RD E

N 2600 RD E

116

47

SAUNEMIN



LOCATION MAP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: *D. Beaulieu*
DISTRICT STUDIES & PLANS ENGINEER

DATE: *August 12, 2015*

EXAMINED BY: *[Signature]*
DISTRICT CONSTRUCTION ENGINEER

[Signature]
DISTRICT MATERIALS ENGINEER

[Signature]
DISTRICT OPERATIONS ENGINEER

FILE NAME: p:\11884E810\INTEG\Illinois\gov\PI\1001\Documents\DOT\Office\District 3\Projects\036	USER NAME: braboypc	DESIGNED: _____	REVISED: _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND LOCATION MAP	F.A.P. RTE. 681	SECTION (113)CR	COUNTY LIVINGSTON	TOTAL SHEETS 33	SHEET NO. 2	CONTRACT NO. 66C19	ILLINOIS FED. AID PROJECT
PLOT SCALE: 100.0000' / in.	CHECKED: _____	REVISED: _____	DATE: _____	SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____						

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY 0040 S. N. 053-2580
20200100	EARTH EXCAVATION	CU YD	96	96
20400800	FURNISHED EXCAVATION	CU YD	42	42
20700220	POROUS GRANULAR EMBANKMENT	CU YD	256	256
25000210	SEEDING, CLASS 2A	ACRE	0.43	0.43
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	39	39
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	39	39
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	39	39
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	2081	2081
28000305	TEMPORARY DITCH CHECKS	FOOT	60	60
28000400	PERIMETER EROSION BARRIER	FOOT	650	650
28100107	STONE RIPRAP, CLASS A4	SQ YD	91	91
28200200	FILTER FABRIC	SQ YD	91	91
35100300	AGGREGATE BASE COURSE, TYPE A 4"	SQ YD	156	156
35501343	HOT-MIX ASPHALT BASE COURSE, 15"	SQ YD	150	150

FILE NAME *	USER NAME * brb00gpp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\NLSL084E81DINTEG.Illinois.gov\PI\DOT\Documents\IDOT Offices\District 3\Projects\0366\DRAWING\040\040\040\0366019-040-040	PROJECTS\IDOT Offices\District 3\Projects\0366\DRAWING\040\040\040\0366019-040-040	CHECKED -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	LIVINGSTON	33	3
PLOT SCALE * 1/8" = 1' IN.		CHECKED -	REVISED -						CONTRACT NO. 66C19		ILLINOIS FED. AID PROJECT		
PLOT DATE * 8/7/2015		DATE -	REVISED -										

CONSTR. CODE
 80% FED.
 20% STATE
 ROADWAY
 0040
 S. N. 053-2580

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	30	30
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	634	634
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	1	1
40600527	LEVELING BINDER (HAND METHOD), IL-9.5FG, N50	TON	1	1
40600627	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N50	TON	53	53
40600990	TEMPORARY RAMP	SO YD	18	18
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	79	79
44000100	PAVEMENT REMOVAL	SO YD	150	150
48101200	AGGREGATE SHOULDERS, TYPE B	TON	10	10
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	30	30
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4090	4090
54003000	CONCRETE BOX CULVERTS	CU YD	29.7	29.7
54011005	PRECAST CONCRETE BOX CULVERTS 10' X 5'	FOOT	51	51

CONSTR. CODE
 80% FED.
 20% STATE
 ROADWAY
 0040
 S. N. 053-2580

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	42	42
54213453	END SECTIONS 18"	EACH	2	2
63200310	GUARDRAIL REMOVAL	FOOT	382	382
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2
67100100	MOBILIZATION	LSUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR-21	LSUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	130	130
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	650	650
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	90	90
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	15	15
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1300	1300
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	180	180

*Specialty Items

Rev.

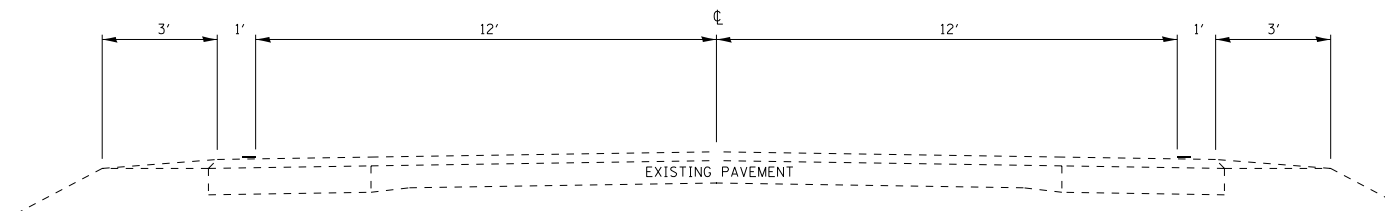
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PLDT SCALE * 1/8" = 1' / in.	CHECKED -	REVISOR -	REVISOR -			CONTRACT NO. 66C19				
PLDT DATE * 8/11/2018	DATE -	REVISOR -	REVISOR -	ILLINOIS FED. AID PROJECT						

CONSTR. CODE
 80% FED.
 20% STATE
 ROADWAY
 0040
 S. N. 053-2580

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	5	5
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	5	5
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	578	578
X5429311	TRAVERSABLE PIPE GRATE, SPECIAL	FOOT	73	73
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	42	42

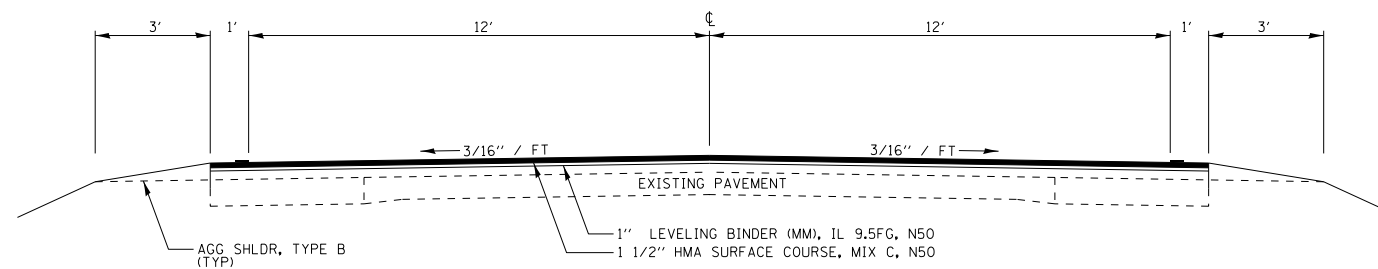
** Specialty Items*

FILE NAME *	USER NAME * bprobjpc	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1\1684EBID\INTEG.illinois.gov\PI\DOT\Do	uments\DOT Offices\District 3\Projects\020	DRAWN Data\CAD\egata\0366C19-shi-cover	REVISD -			681	1131CR	LIVINGSTON	33	6
	PLOT SCALE * 1/8" = 1' / in.	CHECKED -	REVISD -			CONTRACT NO. 66C19				
	PLOT DATE * 8/11/2019	DATE -	REVISD -			ILLINOIS/FED. AID PROJECT				



EXISTING ROADWAY TYPICAL
SEE DETAIL SHEET FOR PAVEMENT JUST ABOVE CULVERT

HMA MIXTURE REQUIREMENT TABLE			
LOCATION(S):	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA BASE COURSE	SURFACE	LEVELING BINDER
BINDER GRADE (PG):	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ N50	4% @ N50	4% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 19.0	IL 9.5	IL 9.5FG
FRICION AGGREGATE:		MIXTURE C	
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES	CORES	CORES



PROPOSED ROADWAY TYPICAL

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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	(113)CR	LIVINGSTON	33	7
CONTRACT NO. 66C19				
ILLINOIS FED. AID PROJECT				

MAINLINE SCHEDULE												
STA. TO STA.	LENGTH	AREA	HMA SURF CSE MIX C N50	LEVEL BINDER (MM)	LEVEL BINDER (HM)	MIX FOR JTS, CRACKS & FLGWYS	BIT. MAT'L (PR CT)	AGG SHLD TY B	AGG SURFACE COURSE, TYPE B	HMA SURF REM., VAR. DEPTH	TEMP RAMP	
	FT	SQ YD	TONS	TONS	TONS	TONS	POUND	TONS	TONS	SQ YD	SQ YD	
SN 053-2580												
422+25	425+50	325	939	78.9	52.6	0.5	0.3	633.8	10.0		578.0	18.0
ENTRANCE AT 422+61 (LT)			85						30.0			
GRAND TOTALS				79	53	1	1	634	10	30	578	18

PAVEMENT REMOVAL AND REPLACEMENT					
STA. TO STA.	LENGTH	AGGREGATE BASE COURSE TYPE A 4"	HMA BASE COURSE 15"	PAVEMENT REMOVAL	POROUS GRANULAR EMBANKMENT
	FT	SQ YD	SQ YD	SQ YD	CU YD
SN 053-2580					
423+74	424+26	52	156.0	150.0	256
GRAND TOTALS			156	150	256

DRAINAGE SCHEDULE			
LOCATION	PIPE CULVERT, CLASS D, TYPE 1, 18"	END SECTIONS 18"	PIPE CULVERT REMOVAL
STA TO STA	FOOT	EACH	FOOT
STA 422+41, 32' RT - 422+83, 34.8 RT	42	2	30
TOTAL	42	2	30

SEEDING SCHEDULE									
LOCATION	LANE	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	PHOSPHOROUS FERTILIZER NUTRIENT	HEAVY DUTY EROSION CONTROL BLANKET	TEMP DITCH CHECKS	PERIMETER EROSION BARRIER	TEMP EROSION CONTROL SEEDING
STA TO STA		ACRE	POUND	POUND	POUND	S.Y.	FOOT	FOOT	POUND
STA 422+25 TO STA 425+50 LT	WB							325	
NW QUADRANT		0.12	11	11	11	581	15		24
NE QUADRANT		0.11	10	10	10	532	15		22
STA 422+25 TO STA 425+50 RT	EB							325	
SW QUADRANT		0.10	9	9	9	484	15		20
SE QUADRANT		0.10	9	9	9	484	15		20
GRAND TOTAL		0.43	39	39	39	2081	60	650	86

EARTH EXCAVATION SCHEDULE				
(1) STA TO STA	(2) EARTH EX CU YD	(3) EARTH EX ADJ FOR SHRINKAGE CU YD	(4) EMBANK CU YD	(5) EARTHWORK BAL WASTE(+) OR SHORTAGE(-) CU YD
STA 422+25 TO 425+50	96	72	114	-42
GRAND TOTALS	96	72	114	-42

COLUMNS 2, AND 4- LOCATION AND QUANTITIES FROM CROSS SECTIONS
 COLUMN 3- QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 25% (1- SHRINKAGE FACTOR)
 COLUMN 5 EARTHWORK REQUIRED (PAY FOR AS FINISHED EXCAVATION)

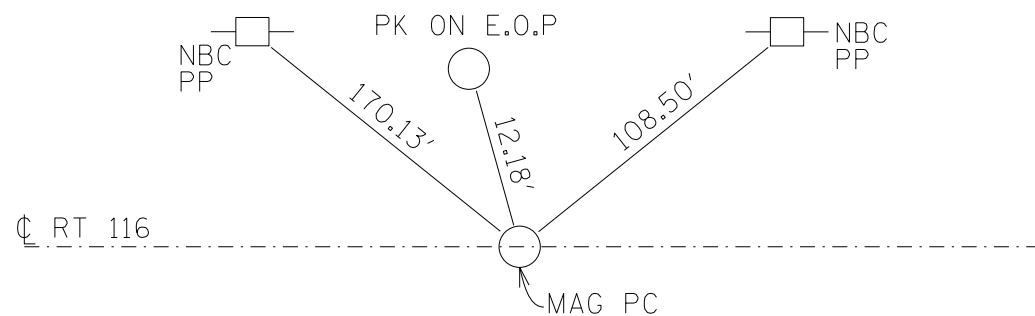
R.O.W. MARKERS	
LOCATION	FURNISH AND ERECT ROW MARKERS EACH
STA 422+25, 40'RT	1
STA 423+00, 50'RT	1
STA 425+00, 50'RT	1
STA 425+50, 40'RT	1
STA 422+25, 40'LT	1
STA 423+00, 50'LT	1
STA 425+00, 50'LT	1
STA 425+50, 40'LT	1
GRAND TOTAL	8

GUARDRAIL		
LOCATION	WB/ED	GR REMOVAL
STA TO STA		FOOT
423+16 TO 425+07	WB	191
422+86 TO 424+77	EB	191
GRAND TOTAL		382

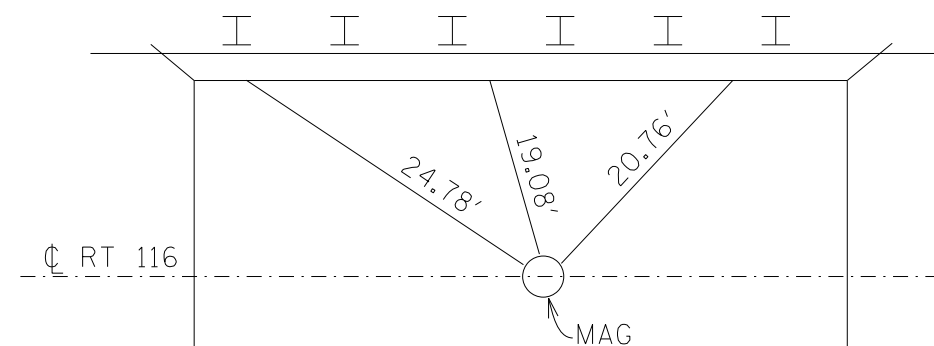
PAVEMENT MARKING SCHEDULE									
LOCATION	DISTANCE	PAINT PVT MK 4"	PAINT PVT MK 6"	TEMP MARK 4"	TEMP MARK 6"	SHORT-TERM MARK	WORK ZONE PAVT MARK REM	RAISED REFLECTIVE PVMT MARKERS	REMOVAL RAISED REFLECTIVE PVT MARKERS
STA	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ. FT.	EACH	EACH
422+25 TO 425+50	325	1300.0	180.0	650.0	90.0	130.0	15.0	5.0	5.0
GRAND TOTAL	325	1300	180	650	90	130	15	5	5

PAINT MUST BE DONE IN A DOUBLE APPLICATION

PC STA 427+00.00

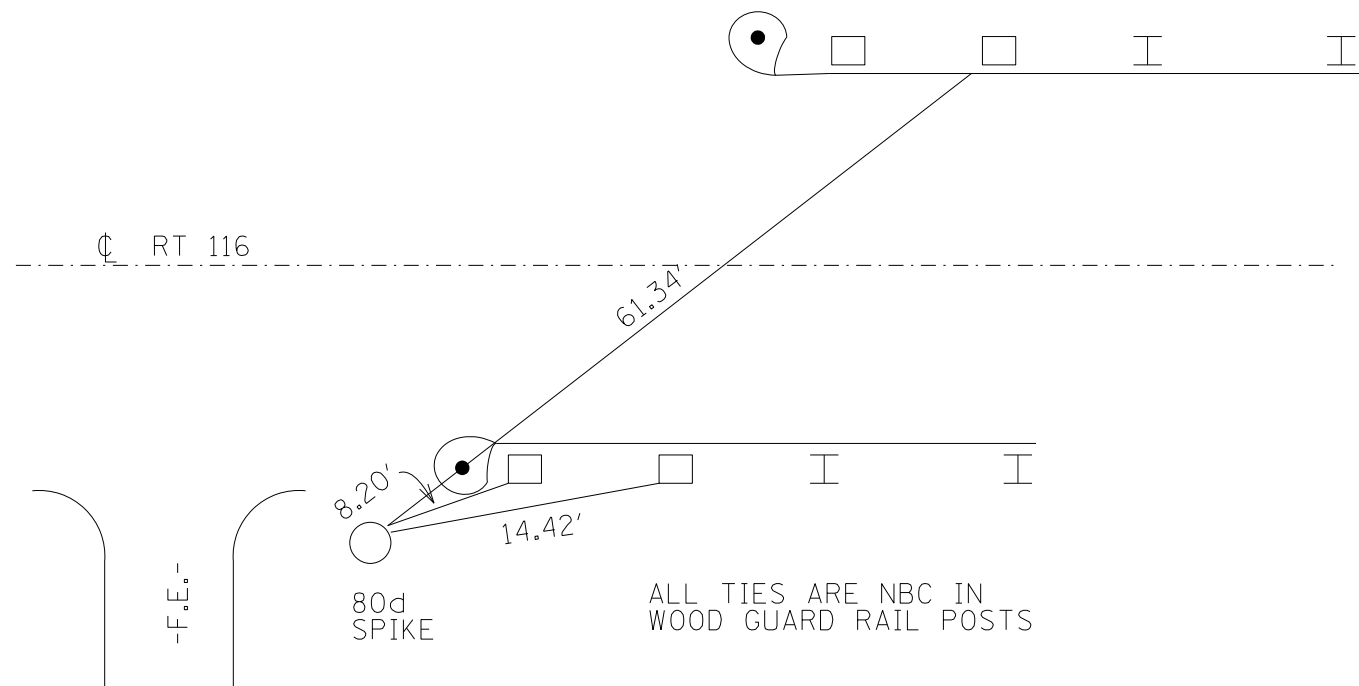


POT ☉ SN 053-2557 STA 423+96.95

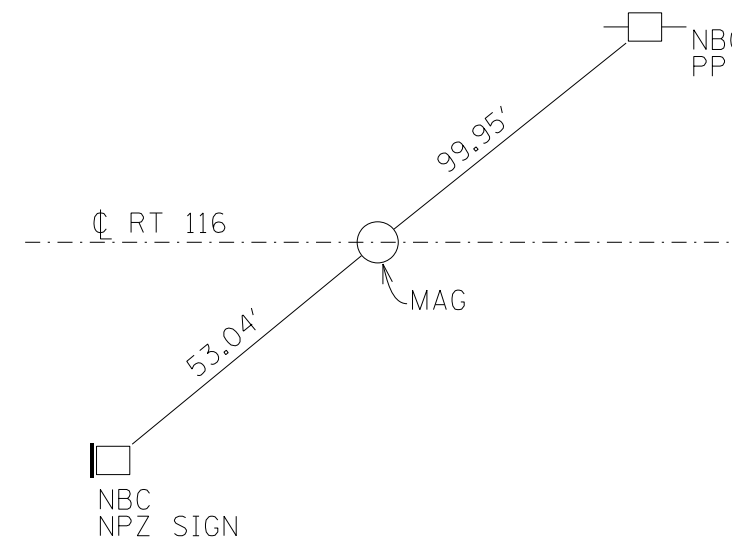


ALL TIES ARE CHIS "X" CENTER GUARDRAIL BOLTS

CP 116510 STA 422+79.59, 22.13' RT



POT STA 421+00.00



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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

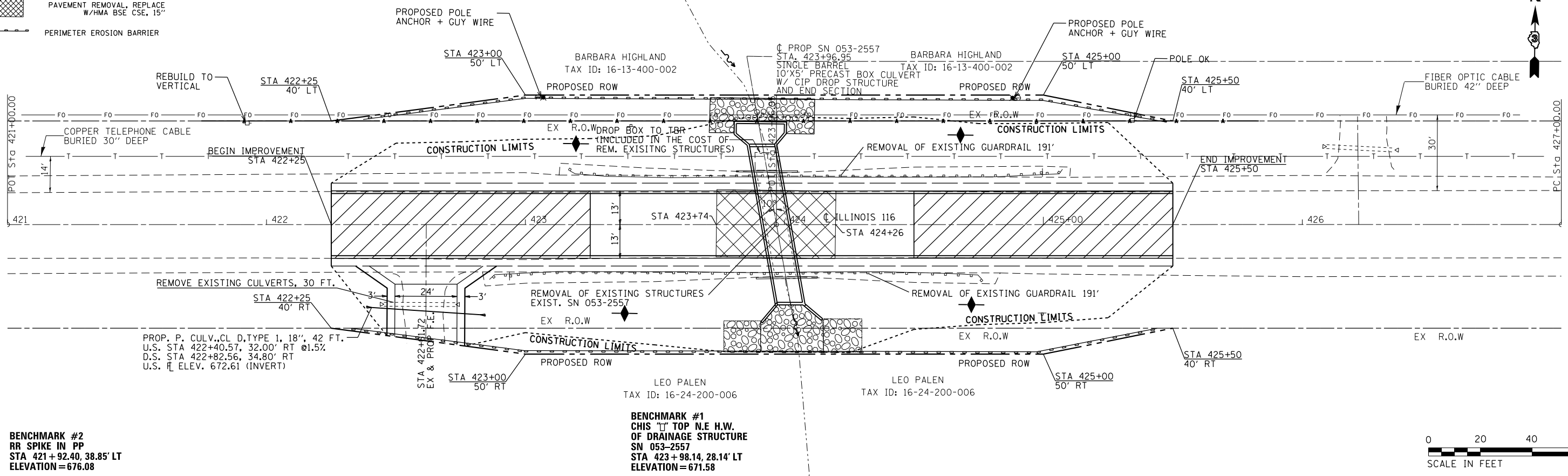
TIE POINTS	
SCALE: _____	SHEET NO. ___ OF ___ SHEETS
STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	(113)CR	LIVINGSTON	33	10
CONTRACT NO. 66C19				
ILLINOIS FED. AID PROJECT				

- HMA SURF REMOVAL-VARIABLE DEPTH
- PAVEMENT REMOVAL, REPLACE W/HMA BSE CSE, 15"
- PERIMETER EROSION BARRIER

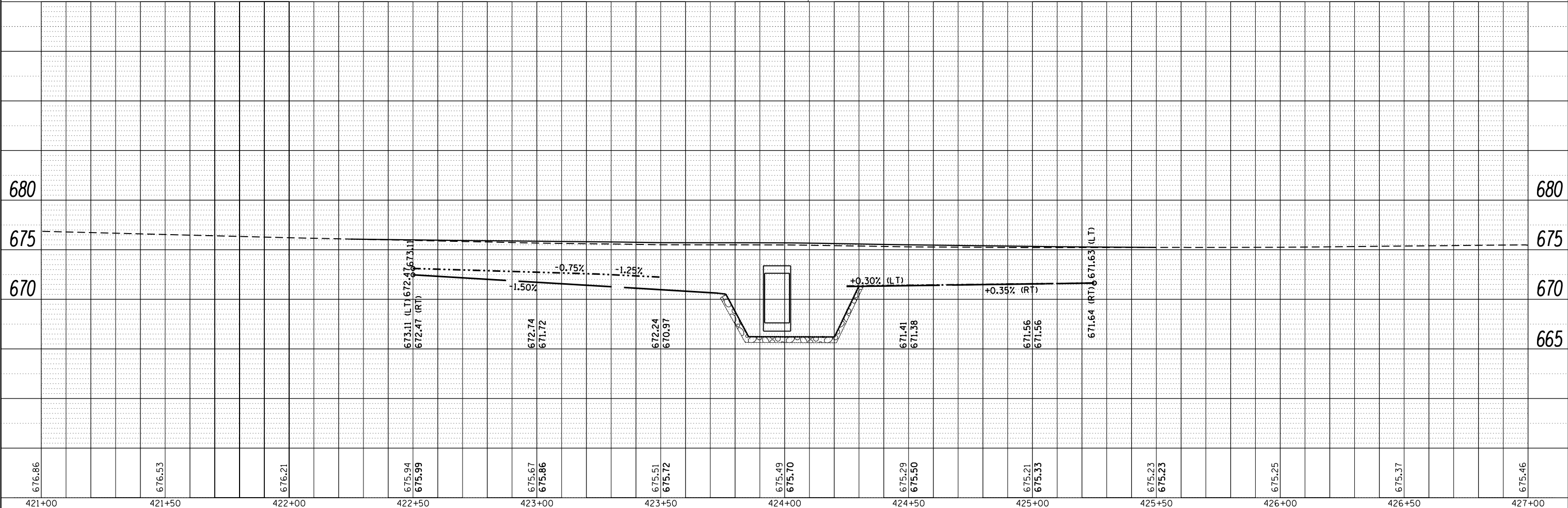
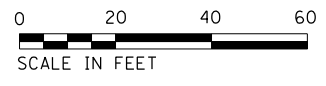
PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	CHECKED	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	CHECKED	
	DATE	



BENCHMARK #2
RR SPIKE IN PP
STA 421 + 92.40, 38.85' LT
ELEVATION = 676.08

BENCHMARK #1
CHIS TOP N.E. H.W.
OF DRAINAGE STRUCTURE
SN 053-2557
STA 423 + 98.14, 28.14' LT
ELEVATION = 671.58



FILE NAME =	USER NAME = bropayc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE				F.A.P. RTE. 681	SECTION (113)CR	COUNTY LIVINGSTON	TOTAL SHEETS 33	SHEET NO. 11
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		SCALE: 1:20 SHEET 1 OF 1 SHEETS STA. 421+00 TO STA. 427+00				CONTRACT NO. 66C19				
	PLOT DATE = 8/7/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

SOUTHEAST 1/4 OF SEC. 13, T. 28 N., R. 6 E., 3RD P.M.



PARCEL 3XR0001

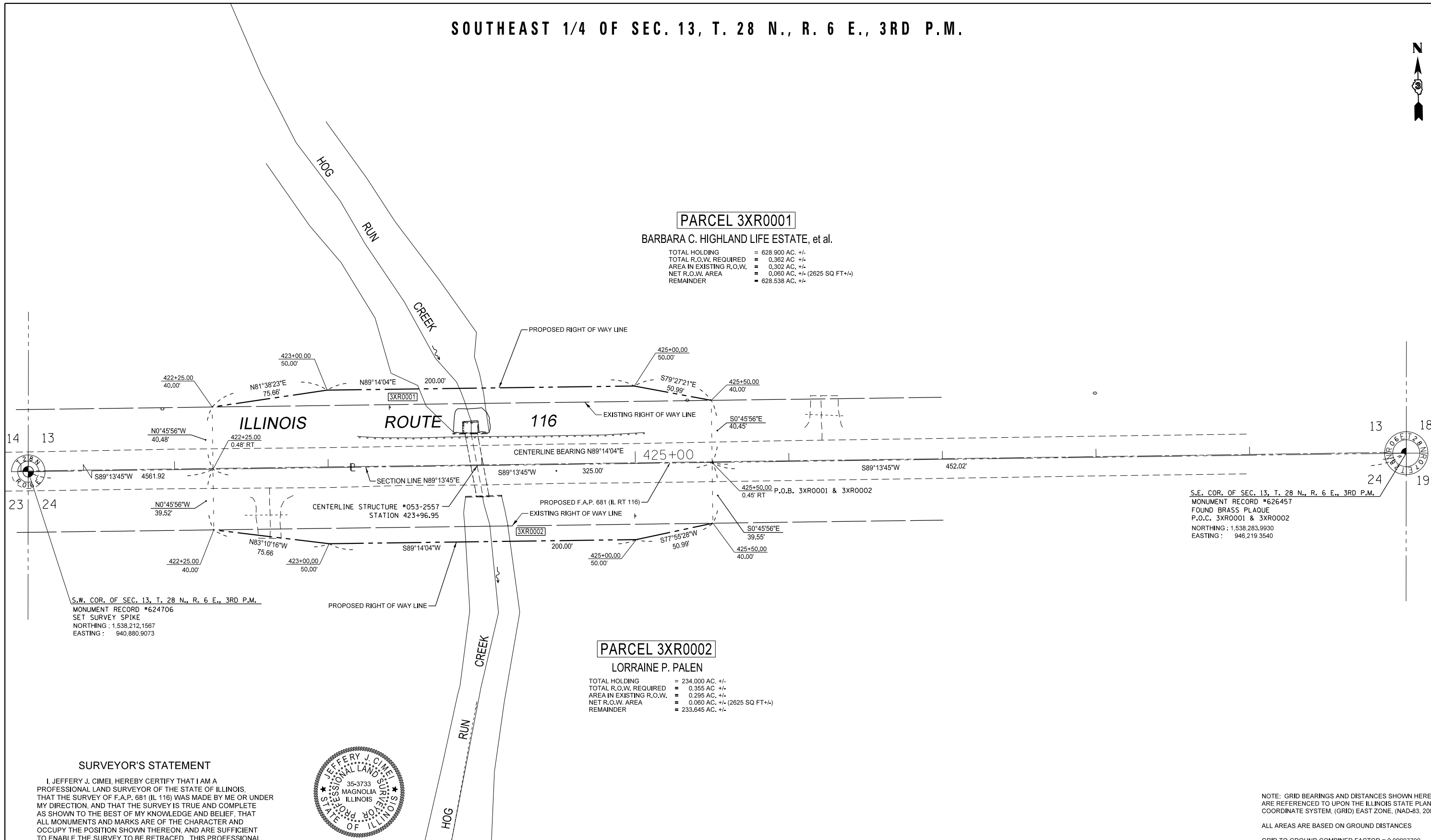
BARBARA C. HIGHLAND LIFE ESTATE, et al.

TOTAL HOLDING = 628.900 AC. +/-
 TOTAL R.O.W. REQUIRED = 0.362 AC. +/-
 AREA IN EXISTING R.O.W. = 0.302 AC. +/-
 NET R.O.W. AREA = 0.060 AC. +/- (2625 SQ FT +/-)
 REMAINDER = 628.538 AC. +/-

PARCEL 3XR0002

LORRAINE P. PALEN

TOTAL HOLDING = 234.000 AC. +/-
 TOTAL R.O.W. REQUIRED = 0.355 AC. +/-
 AREA IN EXISTING R.O.W. = 0.295 AC. +/-
 NET R.O.W. AREA = 0.060 AC. +/- (2625 SQ FT +/-)
 REMAINDER = 233.645 AC. +/-



S.E. COR. OF SEC. 13, T. 28 N., R. 6 E., 3RD P.M.
 MONUMENT RECORD #626457
 FOUND BRASS PLAQUE
 P.O.C. 3XR0001 & 3XR0002
 NORTHING : 1,538,283.9930
 EASTING : 946,219.3540

S.W. COR. OF SEC. 13, T. 28 N., R. 6 E., 3RD P.M.
 MONUMENT RECORD #624706
 SET SURVEY SPIKE
 NORTHING : 1,538,212.1967
 EASTING : 940,880.9073

SURVEYOR'S STATEMENT

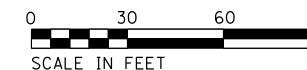
I, JEFFERY J. CIMEI, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF F.A.P. 681 (IL 116) WAS MADE BY ME OR UNDER MY DIRECTION, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



BY: JEFFERY J. CIMEI, ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3733 (EXPIRES NOV. 2014) DATE

NOTE: GRID BEARINGS AND DISTANCES SHOWN HEREON ARE REFERENCED TO UPON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, (GRID) EAST ZONE, (NAD-83, 2007 ADJ.).
 ALL AREAS ARE BASED ON GROUND DISTANCES
 GRID TO GROUND COMBINED FACTOR = 0.99997799
 TOTAL HOLDING AREA TAKEN FROM TAX ASSESSOR

NORTHEAST 1/4 OF SEC. 24, T. 28 N., R. 6 E., 3RD P.M.



FILE NAME	USER NAME = brcboppc	DESIGNED -	REVISED 3-4-15 JJC *2 NAME CHANGE	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLAN SHEET		F.A.P. RTE. 681	SECTION 113CR	COUNTY LIVINGSTON	TOTAL SHEETS 33	SHEET NO. 12
DRAWN					PROJECT	JOB NO. R-93-012-13		CONTRACT NO. 66C19		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
PLOT SCALE = 1" = 30'					CHECKED -	SHEET 1 OF 1 SHEETS	STA. 422+25.00 TO STA. 425+50.00				
PLOT DATE = 8/7/2015				DATE -							

Benchmarks: BM #1 Chiseled "□" on top of N.E. headwall of Structure No. 053-2557. Station 423+98.14, 26.14' LT. Elevation = 671.58.
 BM #2 Railroad spike in power pole. Station 421+92.40, 38.85' LT. Elevation = 676.08.

Existing Structure: Structure No. 053-2557 was built in 1927 as Section 113. The structure is an 8'x5' single barrel concrete box culvert with an upstream drop structure. The culvert is skewed 10° right forward. In 2012, as Section (113C)1, the existing 7" HMA pavement over the culvert was removed and replaced with a 7" reinforced concrete slab superstructure. Three drainage tiles extend through the wall of the drop box structure at flow line elevation. Traffic will be detoured during construction.

No Salvage.

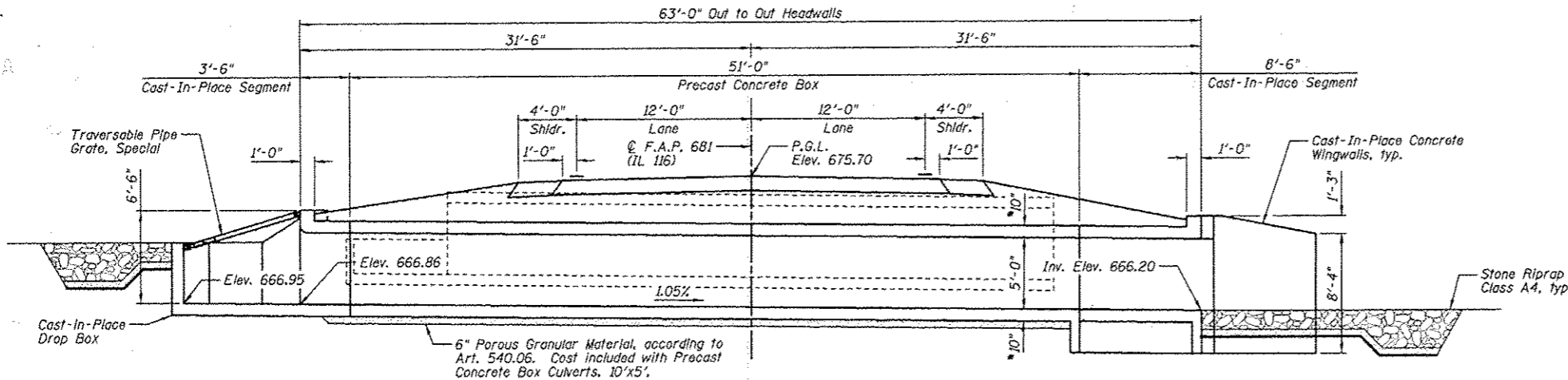
WATERWAY INFORMATION

Drainage Area = 0.505 Sq. Mi.		Existing Low Grade Elev. 675.29 @ Sta. 425+50 Proposed Low Grade Elev. 675.29 @ Sta. 425+50							
Flood	Yr.	Q	Opening Sq. Ft.		Head - Ft.		Headwater El.		
		C.F.S.	Exst.	Prop.	H.W.E.	Exst.	Prop.	Exst.	Prop.
	10	113	27.8	50.0	672.8	0.6	0.0	673.4	672.8
Design	50	188	30.1	50.0	673.1	0.9	0.1	674.0	673.1
Base	100	228	32.4	50.0	673.4	1.1	0.1	674.5	673.5
Overtopping (exst.)	470	302	35.6	50.0	673.8	1.8	0.2	N/A	N/A
Max. Calc.	500	305	35.7	50.0	673.8	1.8	0.2	675.6	674.0

10 Yr. Velocity = 2.6 ft/sec. (Proposed)
 10 Yr. Velocity = 9.1 ft/sec. (Existing)

TOTAL BILL OF MATERIAL-BOX CULVERT

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq. Yd.	91
Filter Fabric	Sq. Yd.	91
Removal of Existing Structures	Each	1
Reinforcement Bars, Epoxy Coated	Pound	4,090
Concrete Box Culverts	Cu. Yd.	29.7
Precast Concrete Box Culverts 10' x 5'	Foot	51
Traversable Pipe Grate, Special	Foot	73



LONGITUDINAL SECTION

(Looking East @ of Culvert)
 Roadway Dimensions @ right angle to Roadway

DESIGN SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications, customary U.S. Units, 6th Edition, with 2013 Interims

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS (CAST-IN-PLACE)

f'c = 3,500 psi @ 28 days
 fy = 60,000 psi (Reinforcement)

PRECAST UNITS

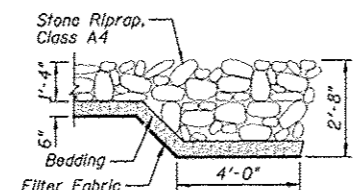
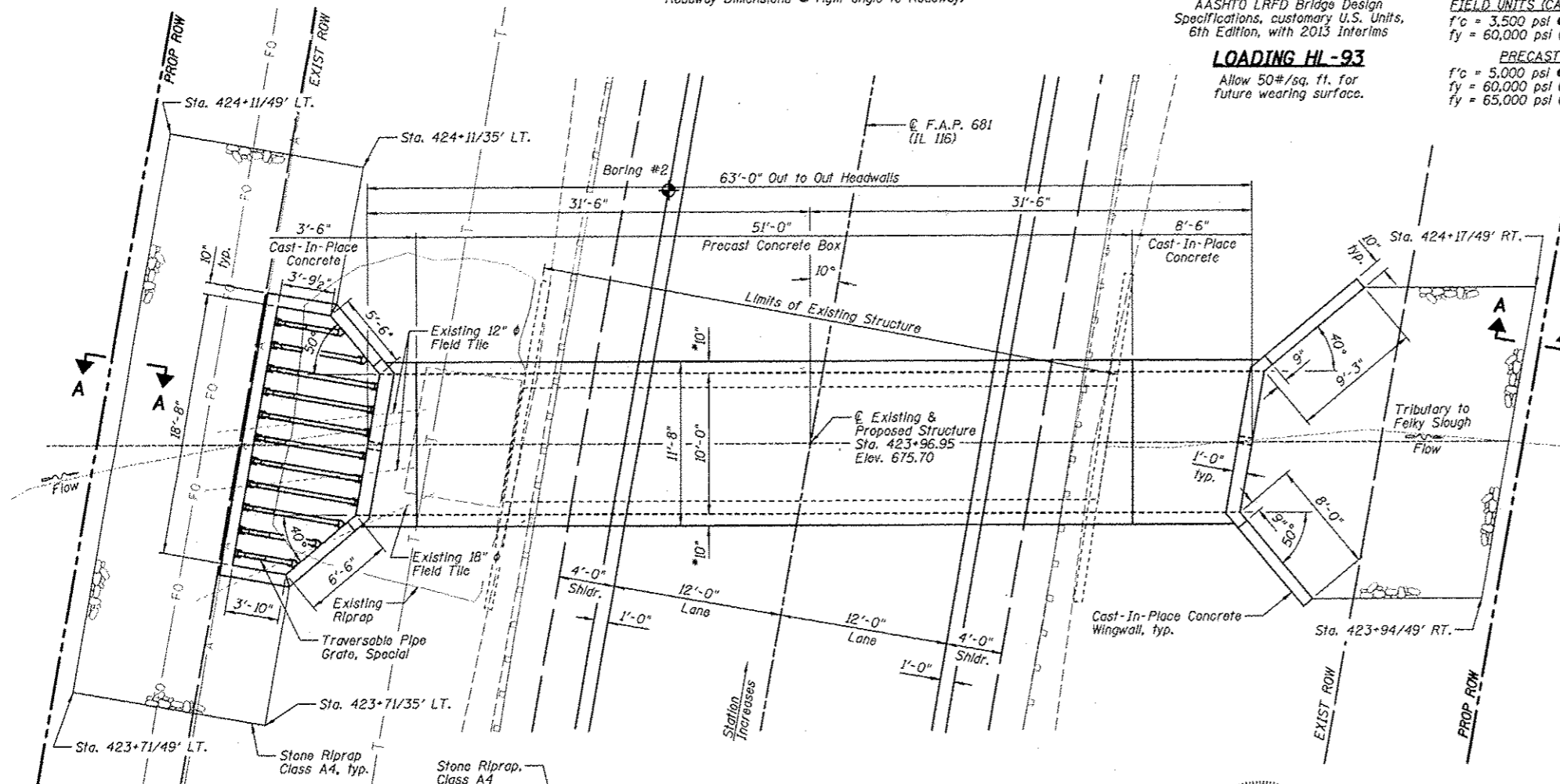
f'c = 5,000 psi @ 28 days
 fy = 60,000 psi (Reinforcement)
 fy = 65,000 psi (Welded Wire Fabric)

INDEX OF SHEETS

SHEET NO.	TITLE
C1	GENERAL PLAN AND ELEVATION
C2	GENERAL DATA
C3	LONGITUDINAL SECTION, PRECAST BARREL SECTION AND ELEVATION
C4	CAST-IN-PLACE BARREL SECTION AND ELEVATIONS
C5	CAST-IN-PLACE BOTTOM SLABS
C6	CAST-IN-PLACE TOP SLABS
C7	WINGWALLS
C8	DROP BOX
C9	TRAVERSABLE PIPE GRATE, SPECIAL
C10	SOIL BORING LOGS

GENERAL NOTES

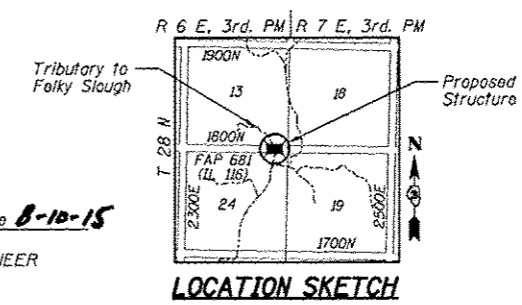
- 1.) Reinforcement bars designated (E) shall be epoxy coated.
- 2.) Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 3.) Cast-In-Place concrete exposed edges shall be beveled 3/4".
- 4.) It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included with the cost of "Concrete Box Culverts".
- 5.) Structural seal does not include design of precast elements.
- 6.) For backfilling and embankment, see Standard Specifications.
- 7.) End of precast section shall not have a bell or spigot.
- 8.) Contractor to confirm all precast culvert dimensions with supplier before starting construction. All applicable cast-in-place concrete dimensions shall match precast culvert dimensions.
- 9.) The last section at the downstream end of the precast culvert shall have an integral toe wall and reinforcing bars extending from the precast culvert as shown on Sheet C7.
- 10.) Alternate extended bars from precast section in slabs so top and bottom mats of reinforcement do not lap at the same location.
- 11.) I.F. denotes Inside Face, O.F. denotes Outside Face, E.F. denotes Each Face, B.F. denotes Back Face, and F.F. denotes Front Face.
- 12.) The cast-in-place culvert walls shall be poured monolithically with the wingwalls.
- 13.) Locations of the existing field tiles shown are approximate only. The Contractor shall verify field tile locations prior to construction. See Roadway Plans for proposed field tile details.
- 14.) The Contractor shall reshape the channel within the Right-Of-Way in order to facilitate drainage and the placement of riprap as directed by the Engineer. The cost of reshaping the channel shall be included in the cost of "Removal of Existing Structures".



SECTION A-A

- NOTES:**
- 1.) *Confirm slab and wall thickness with Precaster.
 - 2.) P.G.L. denotes Profile Grade Line.
 - 3.) See Roadway Plans for ROW location.

JOSEPH M. LOWRANCE
 LICENSED PROFESSIONAL ENGINEER
 BLOOMINGTON, ILLINOIS
 Exp. Date 11/30/16
 Date 8-10-15



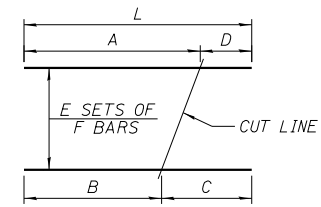
GENERAL PLAN AND ELEVATION
IL. ROUTE 116 OVER
TRIBUTARY TO FELKY SLOUGH
F.A.P. 681 - SECTION (113 CR)
LIVINGSTON COUNTY
STATION 423+96.95
STRUCTURE NO. 053-2580

Farnsworth GROUP, INC. 2706 McGraw Drive Bloomington, Illinois 61710 309-663-5433, 309-663-1971 fax	DESIGNED - JCZ	REVISOR	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NO. 053-2580	F.A.P. RTE. 681	SECTION (113 CR)	COUNTY LIVINGSTON	TOTAL SHEETS 33	SHEET NO. 13
	CHECKED - JML	REVISOR			SHEET NO. C1 OF 10 SHEETS			CONTRACT NO. 66C19	
DATE - 08/10/15	DRAWN - DJM	REVISOR							
	CHECKED - JML	REVISOR							

BAR LIST

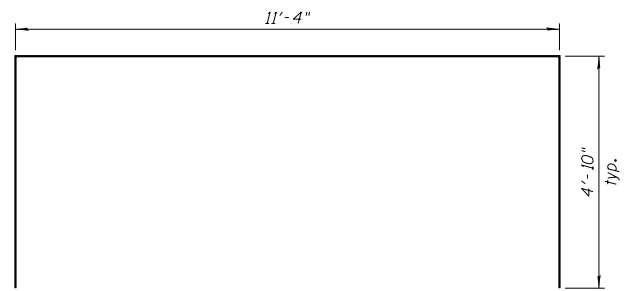
Bar	No.	Size	Length	Shape
a1(E)	34	#5	21'-0"	□
a2(E)	3	#5	23'-10"	□
a3(E)	3	#5	14'-2"	□
a4(E)	3	#5	21'-0"	□
a5(E)	3	#5	11'-4"	□
a6(E)	8	#4	20'-0"	□
a7(E)	2	#4	13'-2"	□
a8(E)	2	#4	15'-2"	□
a9(E)	2	#4	17'-3"	□
a10(E)	2	#4	19'-3"	□
b1(E)	24	#4	10'-8"	□
b2(E)	3	#4	13'-5"	□
b3(E)	4	#4	14'-0"	□
b4(E)	11	#4	4'-5"	□
b5(E)	24	#4	6'-6"	□
b6(E)	24	#4	16'-6"	□
b7(E)	3	#5	9'-10"	□
b8(E)	64	#4	2'-8"	□
b9(E)	12	#4	2'-3"	□
b10(E)	12	#4	4'-1"	□
b11(E)	12	#4	9'-1"	□
b12(E)	12	#4	7'-3"	□
b13(E)	8	#6	10'-4"	□
b14(E)	3	#6	10'-10"	□
b15(E)	8	#6	11'-1"	□
b16(E)	6	#6	8'-0"	□
b17(E)	2	#6	7'-8"	□
b18(E)	3	#6	12'-0"	□
b19(E)	8	#6	12'-6"	□
b20(E)	6	#6	8'-0"	□
b21(E)	2	#6	8'-11"	□
b22(E)	8	#4	20'-0"	□
b23(E)	6	#4	7'-9"	□
b24(E)	6	#4	10'-5"	□
b25(E)	6	#4	10'-8"	□
b26(E)	8	#4	10'-7"	□
b27(E)	3	#4	5'-3"	□
b28(E)	3	#4	6'-3"	□
b29(E)	11	#4	4'-11"	□
b30(E)	11	#4	4'-9"	□
b31(E)	26	#4	6'-10"	□
b32(E)	18	#4	9'-3"	□
b33(E)	39	#4	6'-9"	□
b34(E)	13	#4	9'-7"	□

BAR CUTTING DIAGRAM

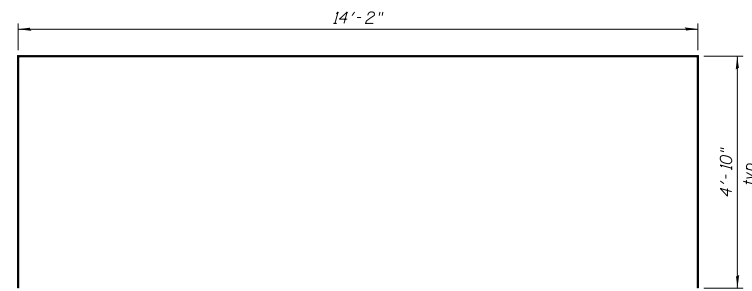


BAR	A	B	C	D	E	F	L
a2(E)	10'-5"	3'-9"	10'-5"	3'-9"	1	3	14'-2"
a3(E)	10'-5"	3'-9"	10'-5"	3'-9"	1	3	14'-2"
a4(E)	9'-0"	2'-4"	9'-0"	2'-4"	1	3	11'-4"
a5(E)	9'-0"	2'-4"	9'-0"	2'-4"	1	3	11'-4"
b1(E)	7'-8"	5'-11"	7'-8"	5'-11"	1	2	13'-7"
b2(E)	8'-2"	5'-8"	8'-2"	5'-8"	1	3	13'-10"
h(E)	4'-3"	2'-3"	4'-3"	2'-3"	1	24	6'-6"
h1(E)	9'-3"	7'-3"	9'-3"	7'-3"	1	24	16'-6"

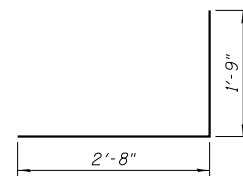
Note: "L" dimension does not take into account the hook length for the hooked bars a2(E) and a4(E).



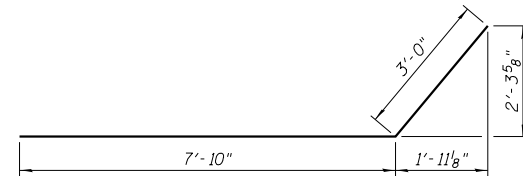
a1(E), a4(E) BARS



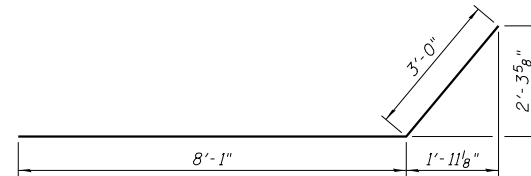
a2(E) BAR



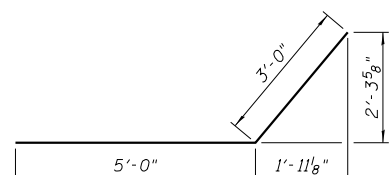
d(E) BAR



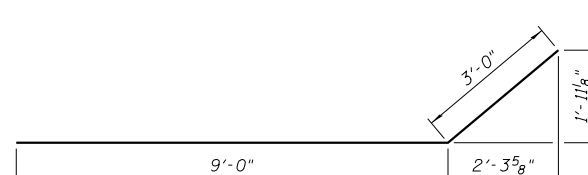
h9(E) BAR



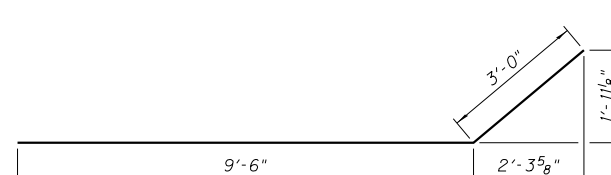
h10(E) BAR



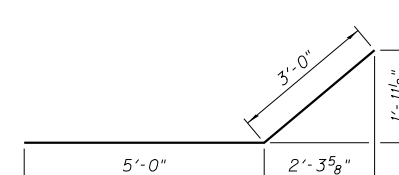
h11(E) BAR



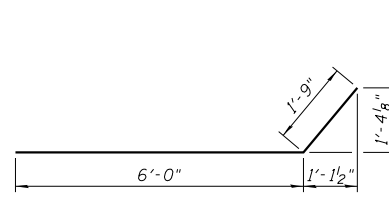
h13(E) BAR



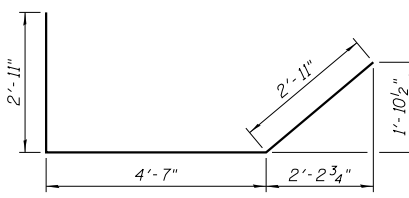
h14(E) BAR



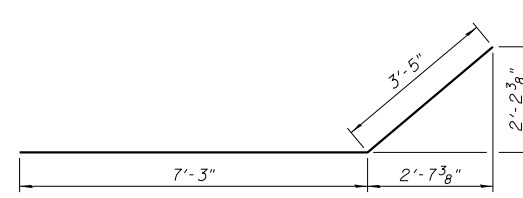
h15(E) BAR



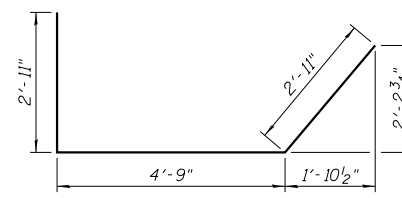
h18(E) BAR



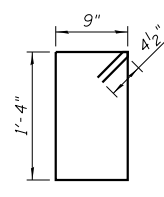
h19(E) BAR



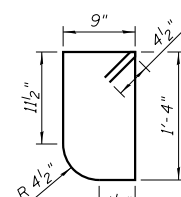
h20(E) BAR



h21(E) BAR



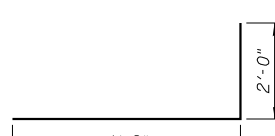
s(E) BAR



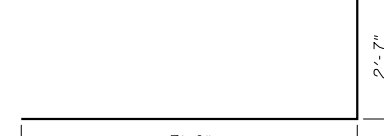
s1(E) BAR



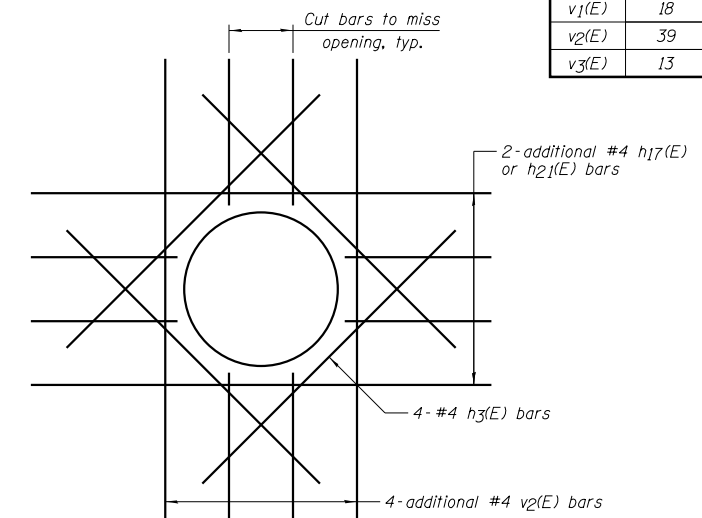
v(E) BAR



v2(E) BAR



v3(E) BAR



TYPICAL REINFORCING AROUND OPENINGS

Farnsworth GROUP, INC.
2705 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

DESIGNED - JCZ	REVIS
CHECKED - JML	REVIS
DRAWN - DJM	REVIS
DATE - 08/10/15	REVIS

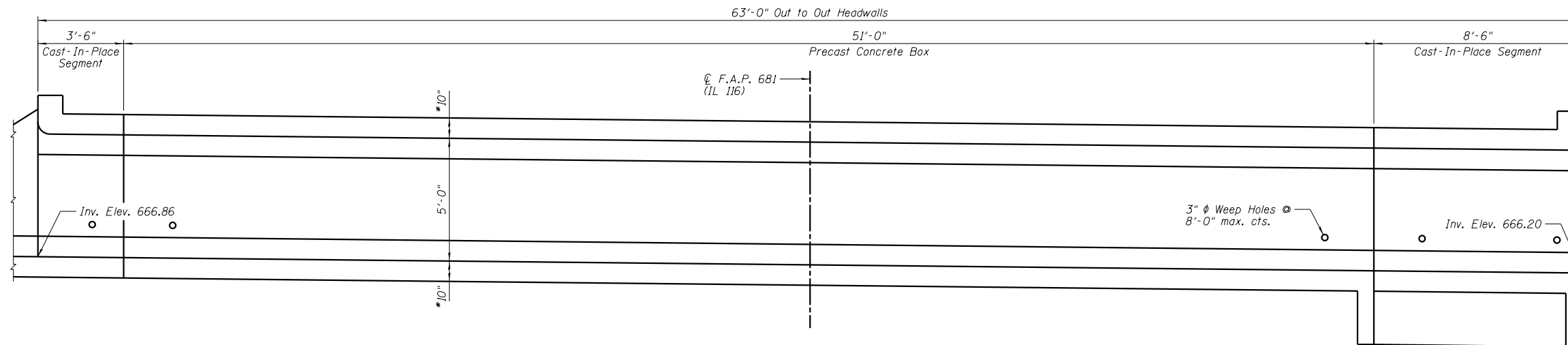
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 053-2580**

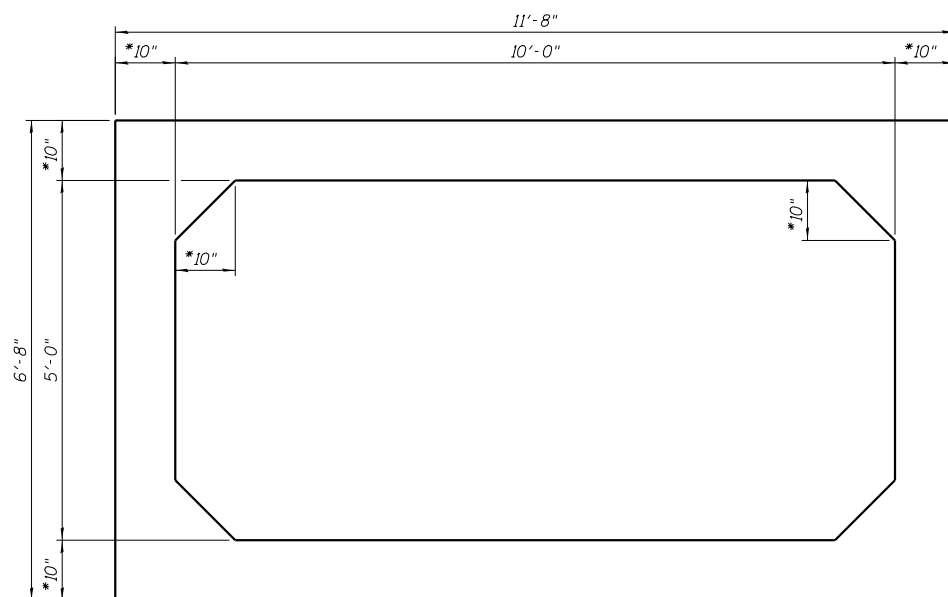
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	(113 CR)	LIVINGSTON	33	14
CONTRACT NO. 66C19				

SHEET NO. C2 OF 10 SHEETS

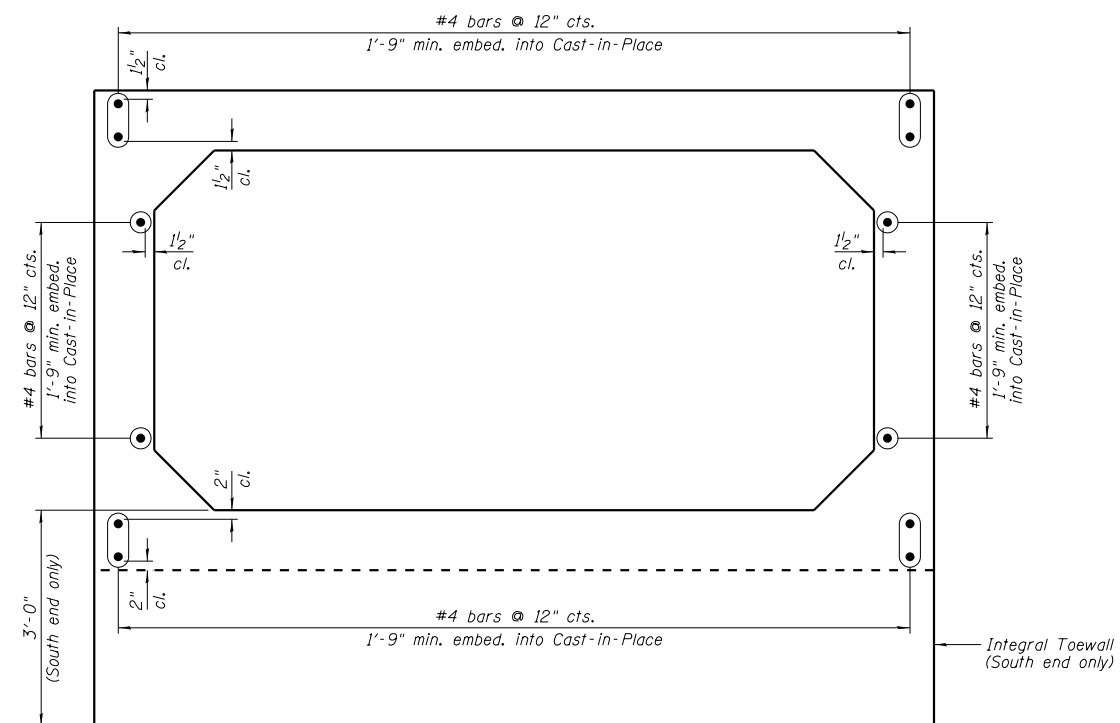
ILLINOIS FED. AID PROJECT



LONGITUDINAL SECTION
(Looking East @ C of Culvert)



SECTION THRU PRECAST CONCRETE BARREL



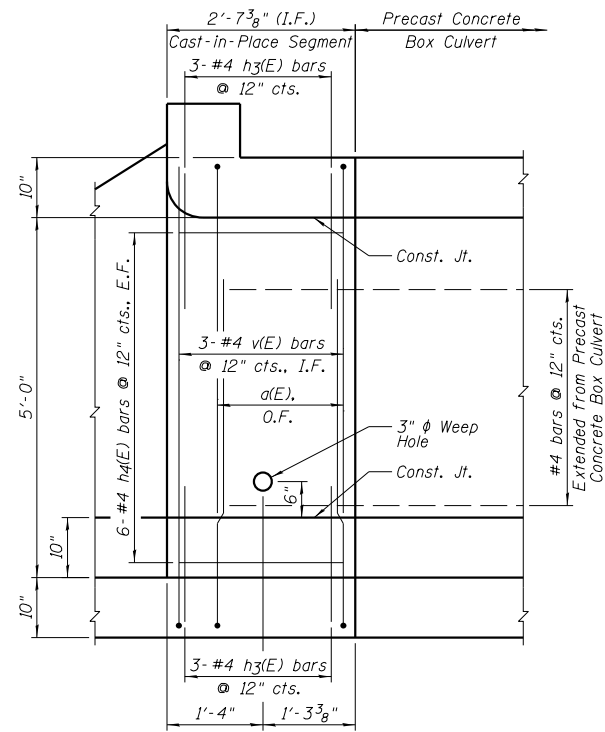
PRECAST CONCRETE CULVERT END ELEVATION

NOTES:

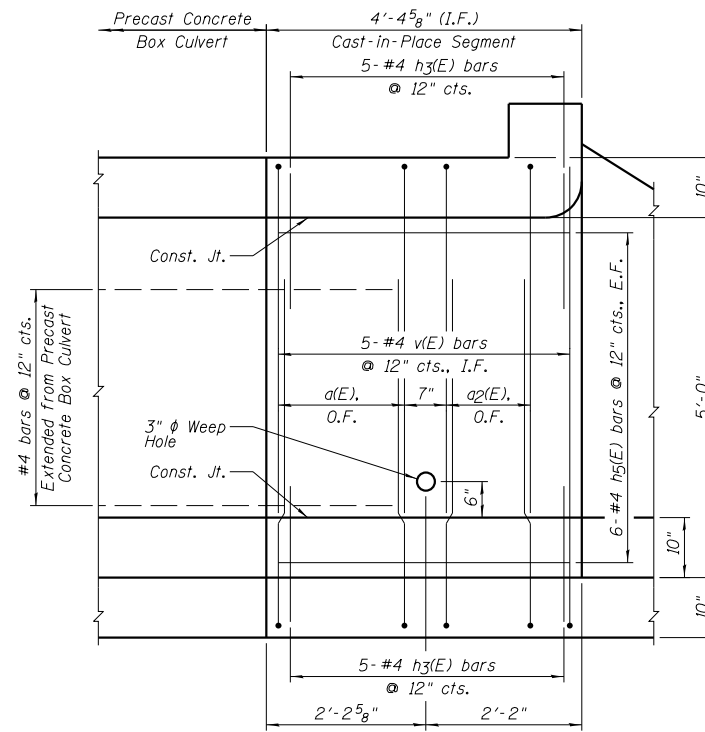
- 1.) *Confirm slab and wall thickness with Precaster.
- 2.) For Cast-in-Place Concrete Segments of barrel, see Sheets C8-C10.
- 3.) Cost of reinforcing bars extending from precast barrels included with the cost of Precast Concrete Box Culvert.

DESIGNED - JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 08/10/15	

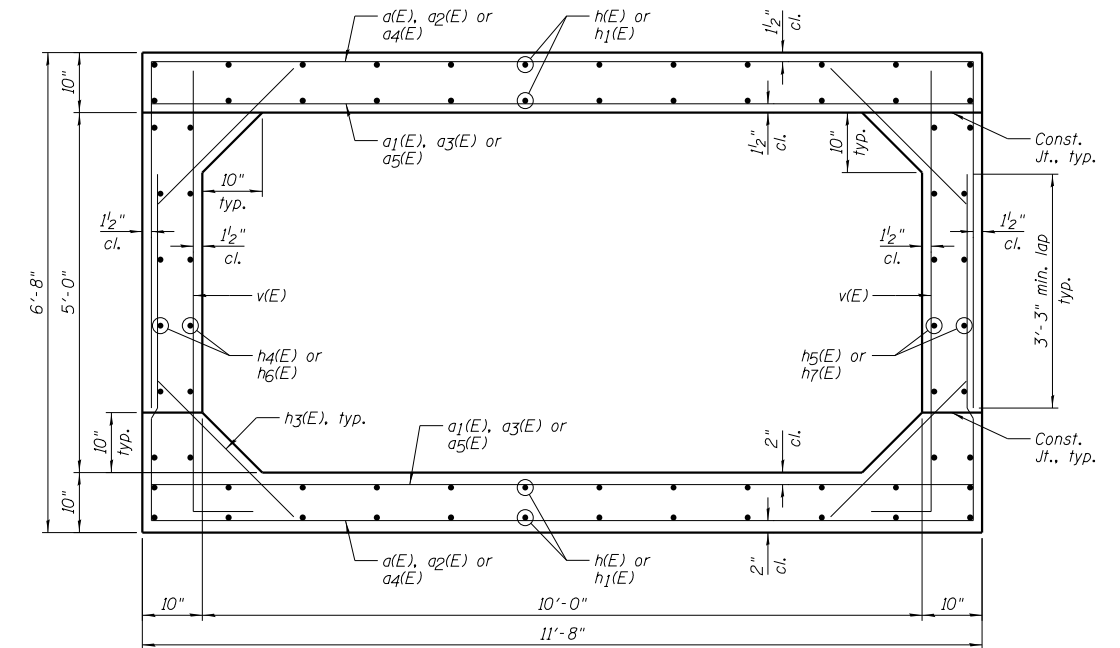
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	(113 CR)	LIVINGSTON	33	15
CONTRACT NO. 66C19				



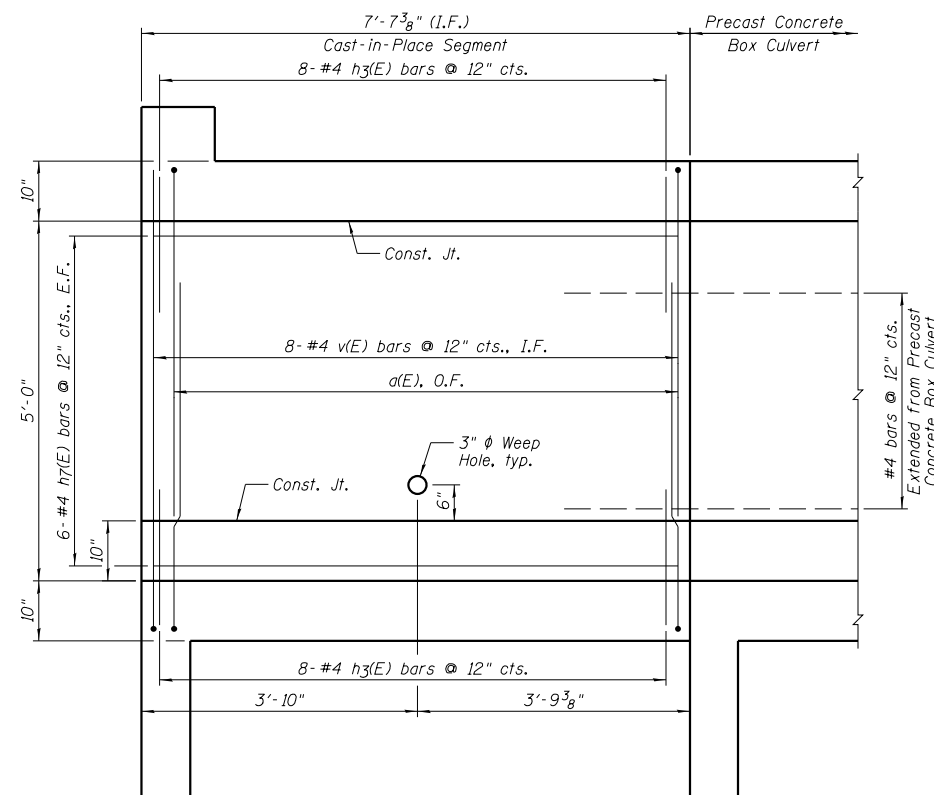
**NORTH END
EAST WALL ELEVATION**



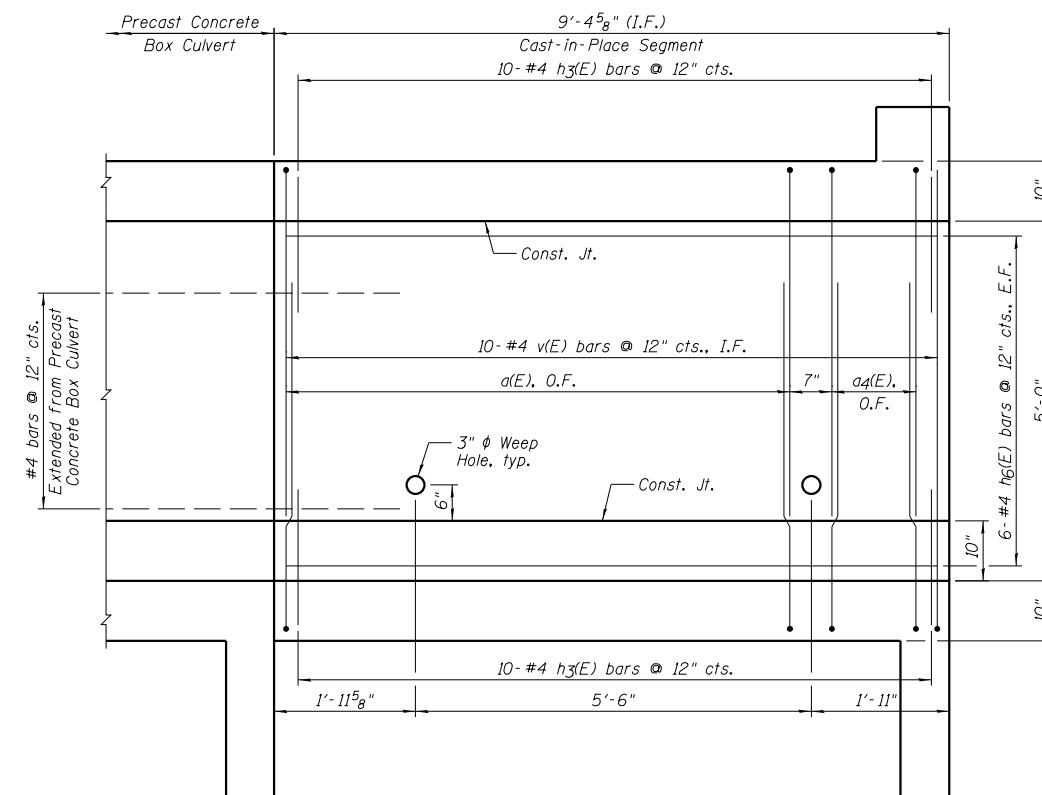
**NORTH END
WEST WALL ELEVATION**



**SECTION THRU CAST-IN-PLACE CONCRETE BARREL
(Looking South)**



**SOUTH END
WEST WALL ELEVATION**



**SOUTH END
EAST WALL ELEVATION**

NOTES:

- 1.) For Precast Concrete portions, see Sheet C7.
- 2.) For Bar List, see Sheet C2.



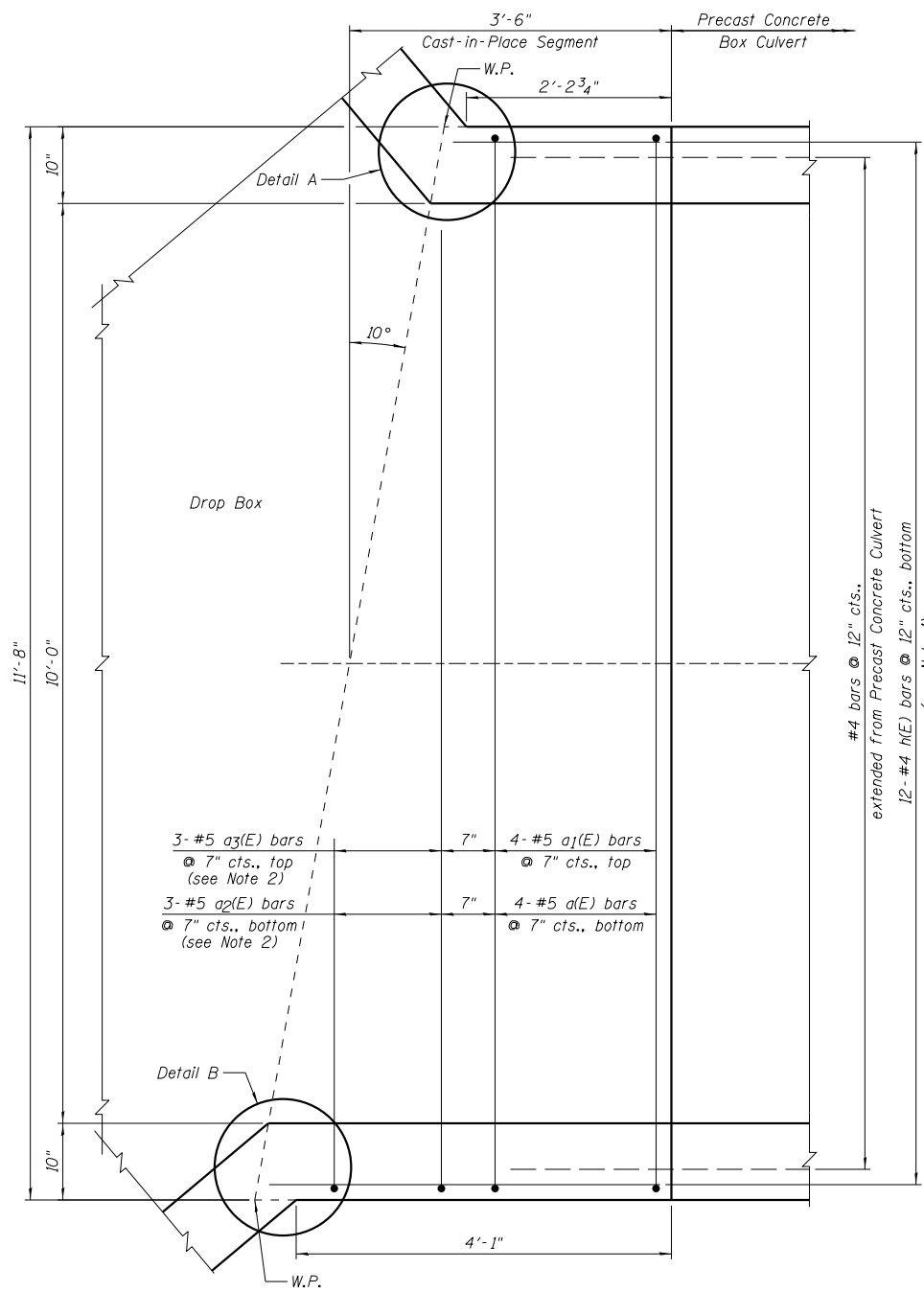
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CHECKED - JML	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 08/10/15	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

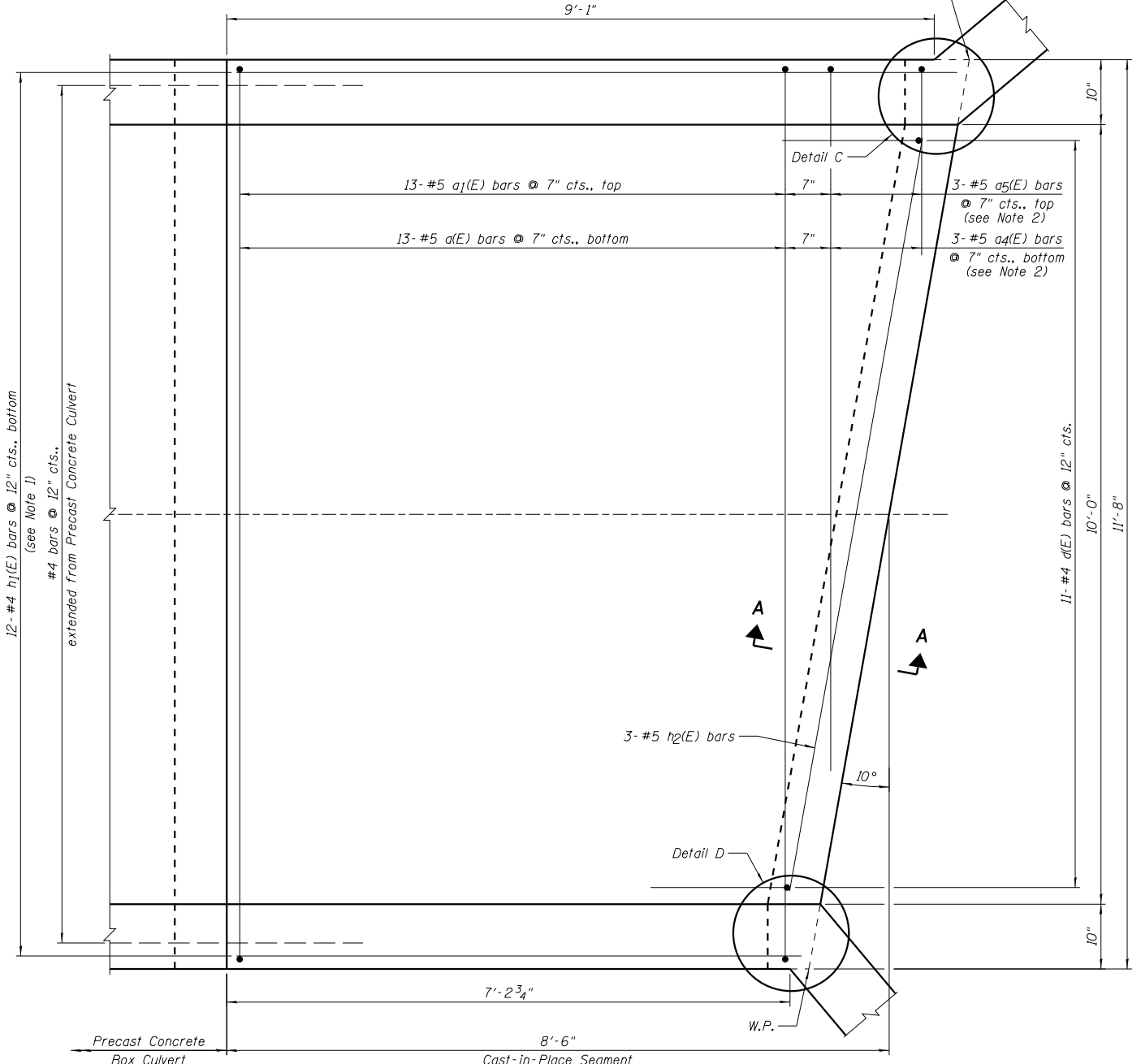
**CAST-IN-PLACE BARREL SECTION AND ELEVATIONS
STRUCTURE NO. 053-2580**

SHEET NO. C4 OF 10 SHEETS

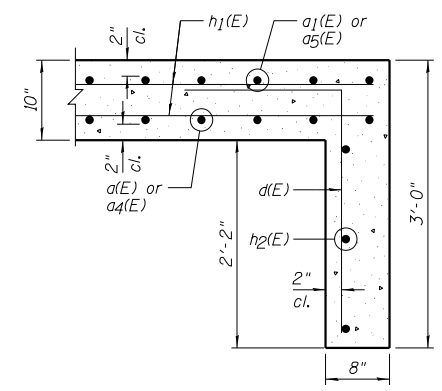
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	(113 CR)	LIVINGSTON	33	16
CONTRACT NO. 66C19				
ILLINOIS FED. AID PROJECT				



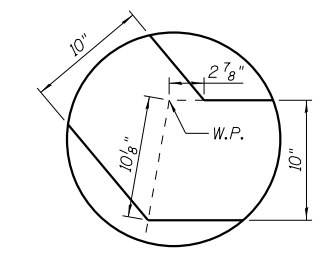
NORTH SLAB PLAN



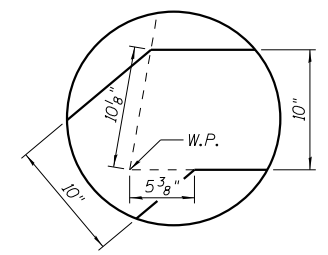
SOUTH SLAB PLAN



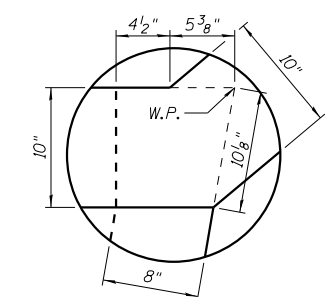
SECTION A-A



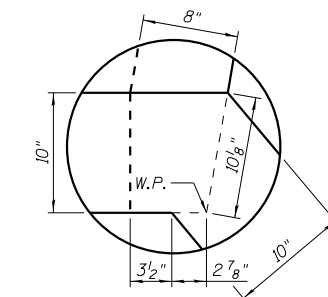
DETAIL A



DETAIL B



DETAIL C



DETAIL D

NOTES:

- 1.) Order h(E) and h1(E) bars full length, cut according to the Bar Cutting Diagram on Sheet C2. Use remainder of bars in top layer of reinforcement.
- 2.) Order a2(E), a3(E), a4(E) and a5(E) bars full length, cut according to the Bar Cutting Diagram on Sheet C2. Use remainder of bars in top slab.
- 3.) For Bar List, see Sheet C2.
- 4.) W.P. denotes Working Point.



DESIGNED - JCZ	REVIS
CHECKED - JML	REVIS
DRAWN - DJM	REVIS
DATE - 08/10/15	REVIS

DESIGNED - JCZ	REVIS
CHECKED - JML	REVIS
DRAWN - DJM	REVIS
DATE - 08/10/15	REVIS

DESIGNED - JCZ	REVIS
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DRAWN - DJM	REVIS
DATE - 08/10/15	REVIS

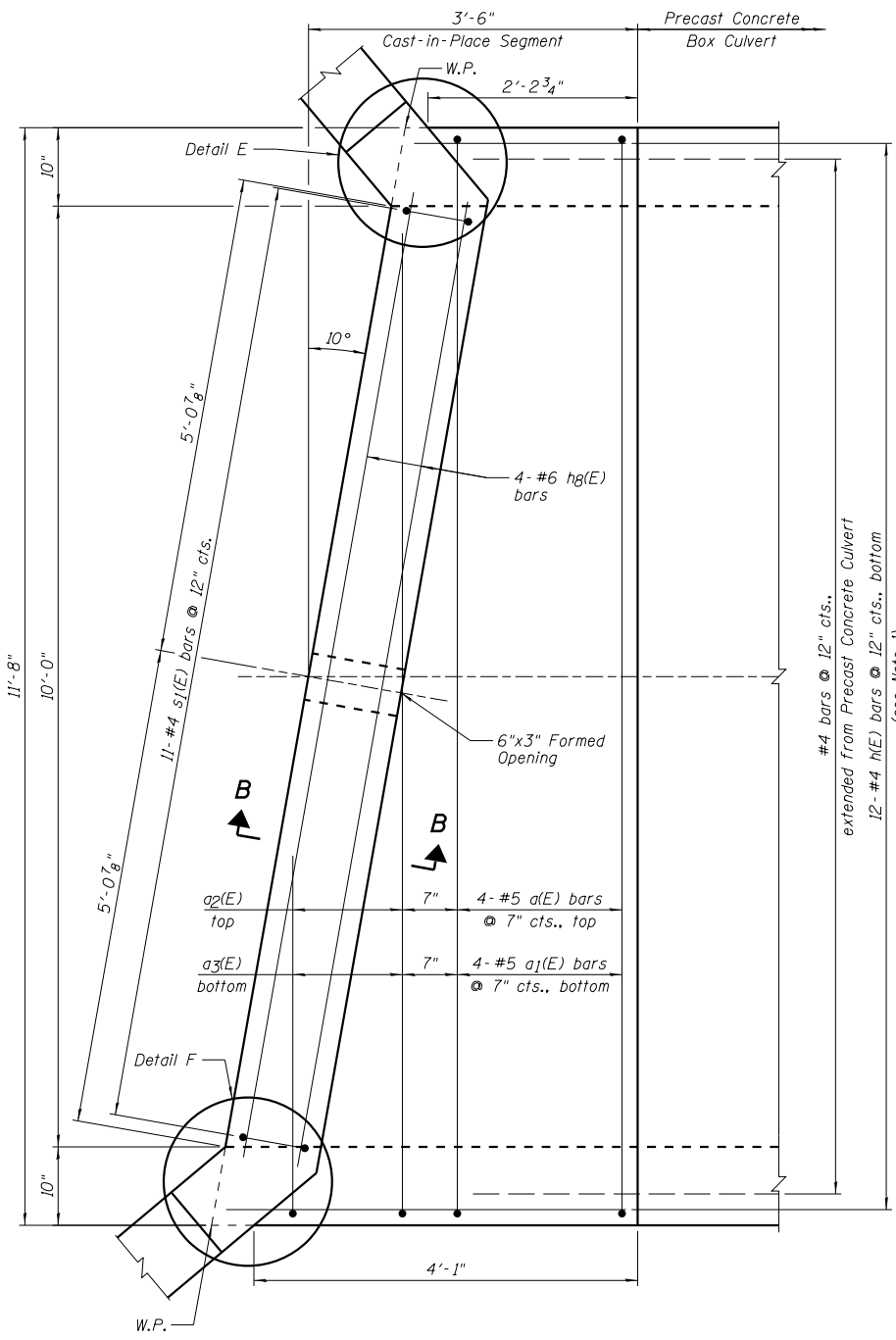
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CAST-IN-PLACE BOTTOM SLABS
STRUCTURE NO. 053-2580**

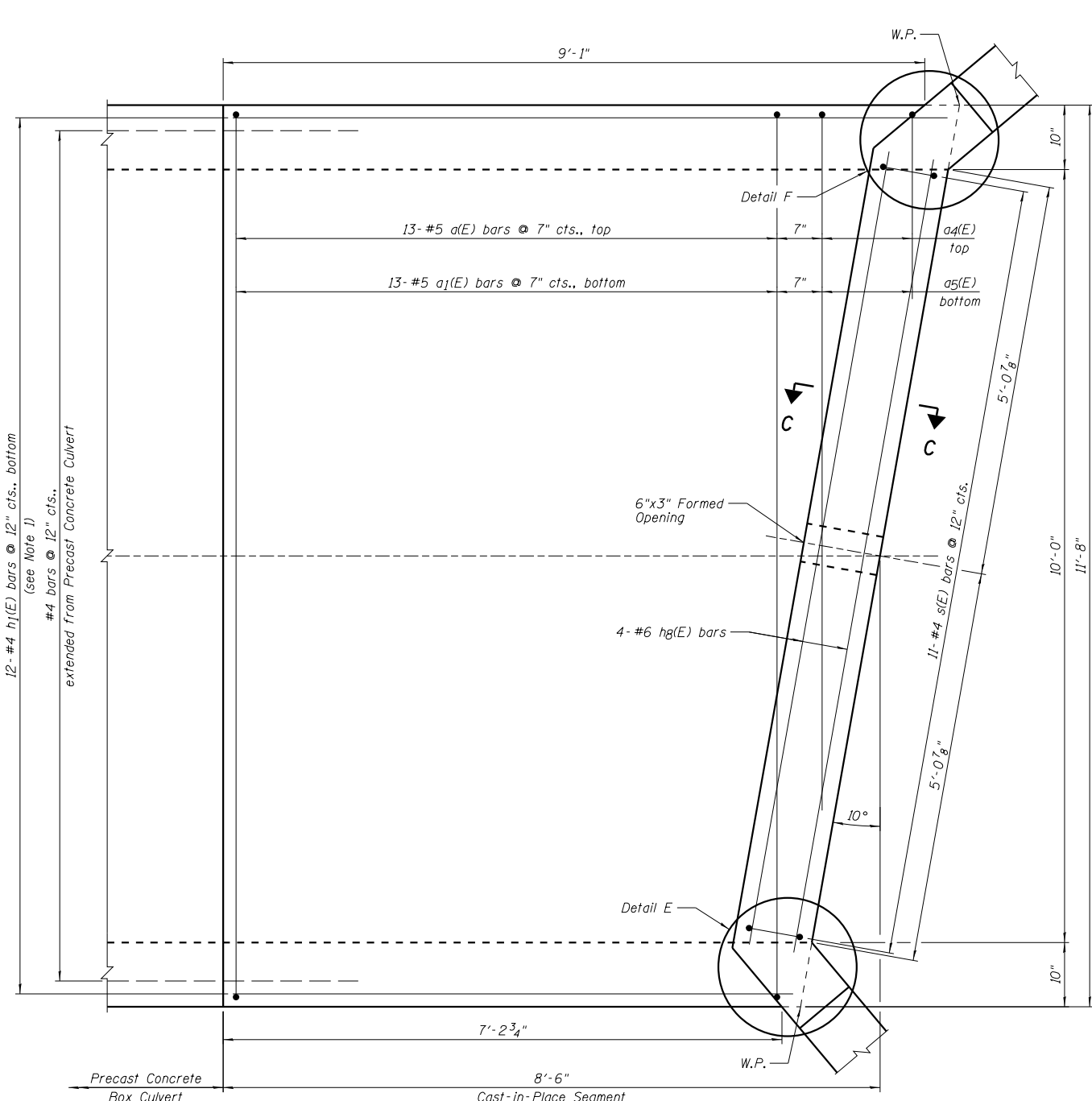
SHEET NO. C5 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66C19				

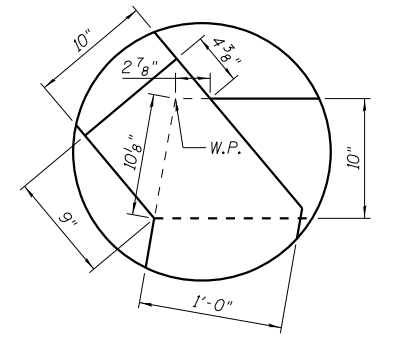
ILLINOIS FED. AID PROJECT



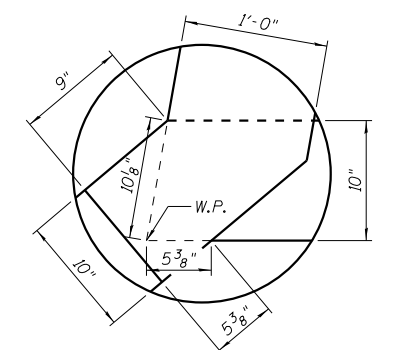
NORTH SLAB PLAN



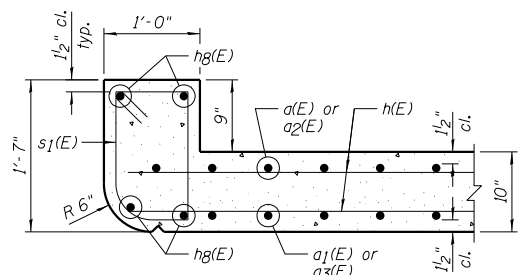
SOUTH SLAB PLAN



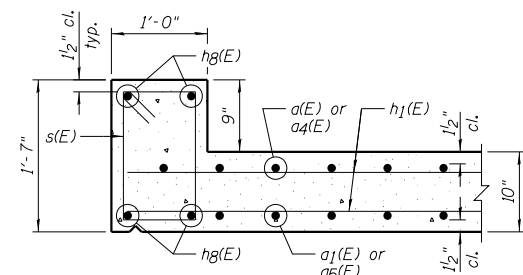
DETAIL E



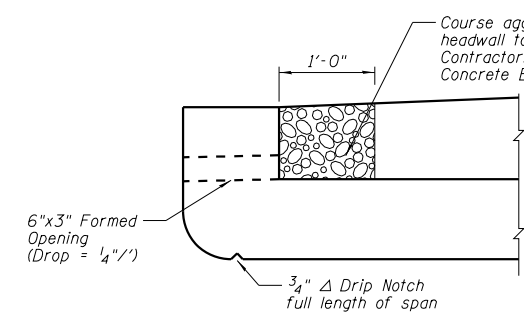
DETAIL F



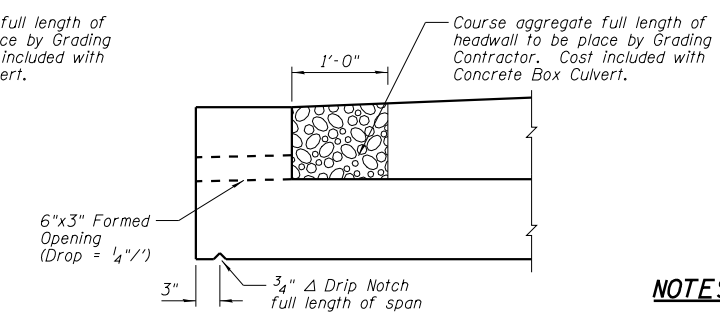
SECTION B-B



SECTION C-C



AT UPSTREAM END



AT DOWNSTREAM END

NOTES:

- 1.) Order h(E) and h1(E) bars full length, cut according to the Bar Cutting Diagram on Sheet C2. Use remainder of bars in top layer of reinforcement.
- 2.) For Bar List, see Sheet C2.
- 3.) W.P. denotes Working Point.



DESIGNED - JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM	REVISED
DATE - 08/10/15	REVISED
CHECKED - JML	REVISED

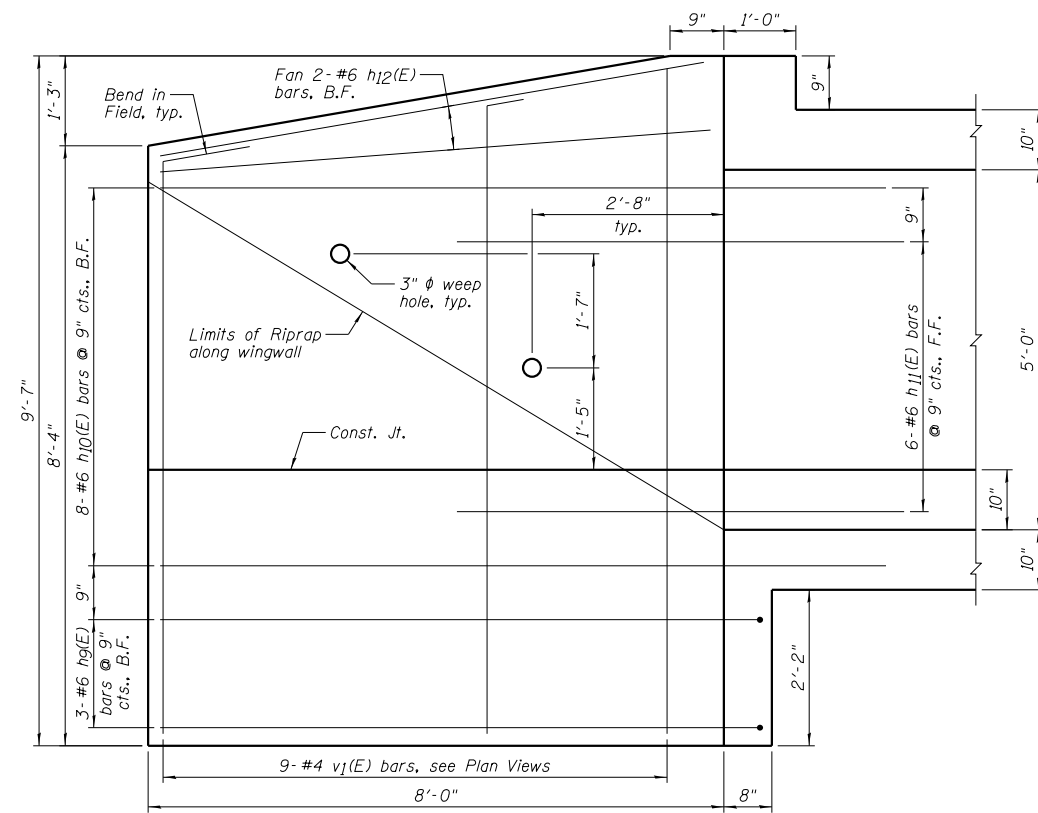
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CAST-IN-PLACE TOP SLABS
STRUCTURE NO. 053-2580**

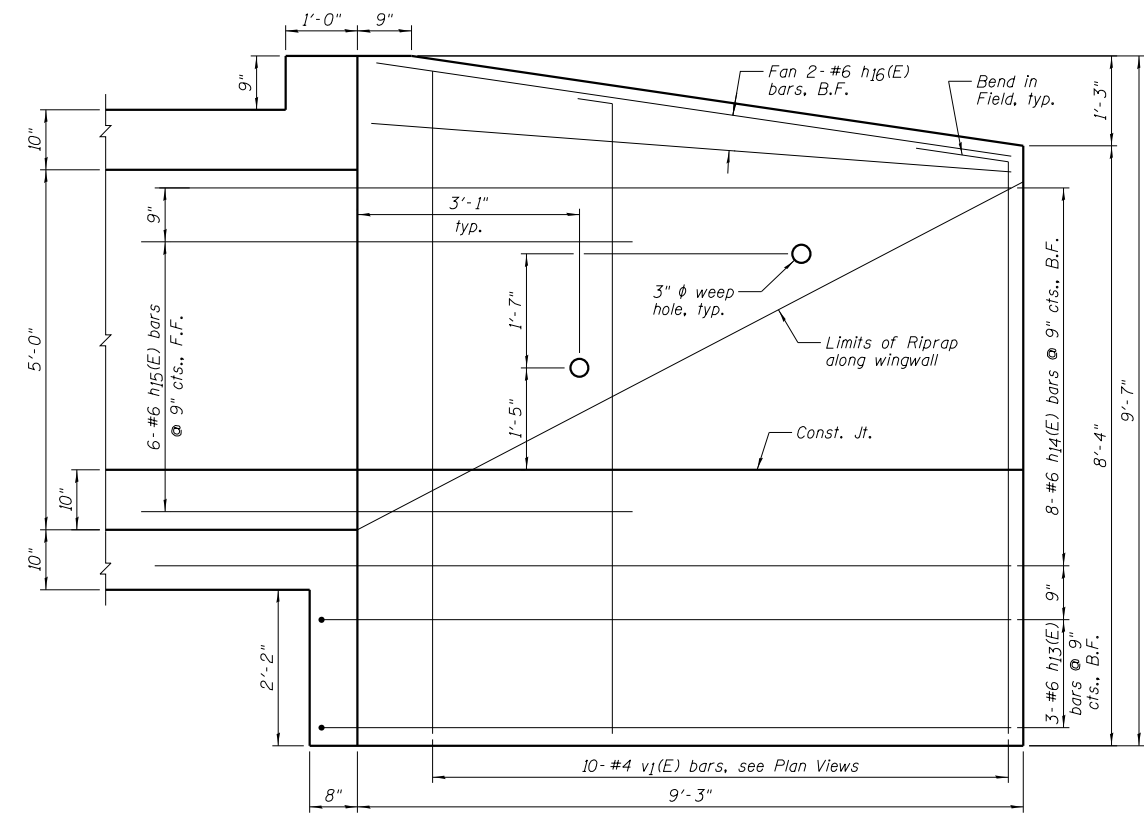
SHEET NO. C6 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	(113 CR)	LIVINGSTON	33	18
CONTRACT NO. 66C19				

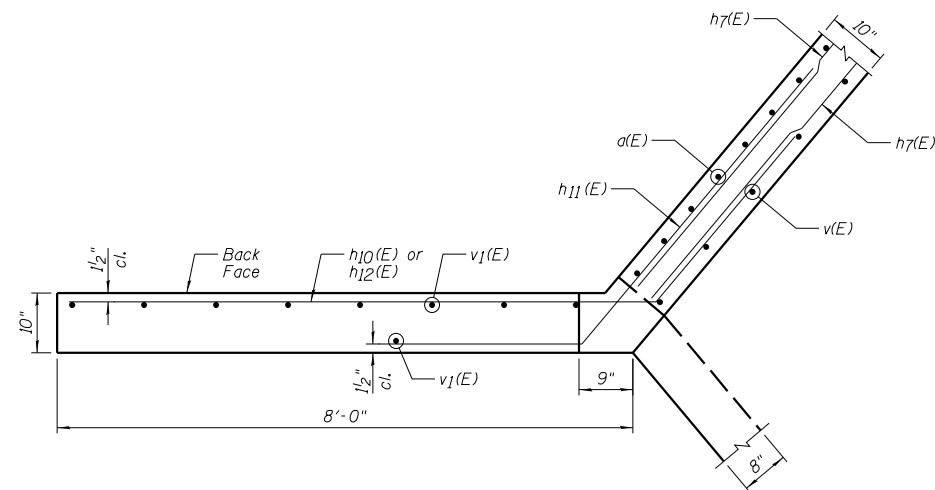
ILLINOIS FED. AID PROJECT



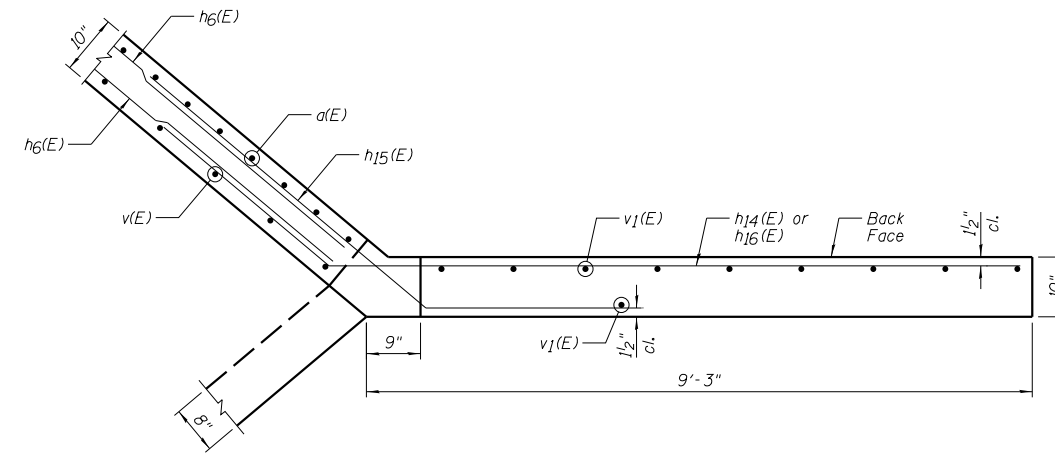
SOUTHWEST WINGWALL ELEVATION



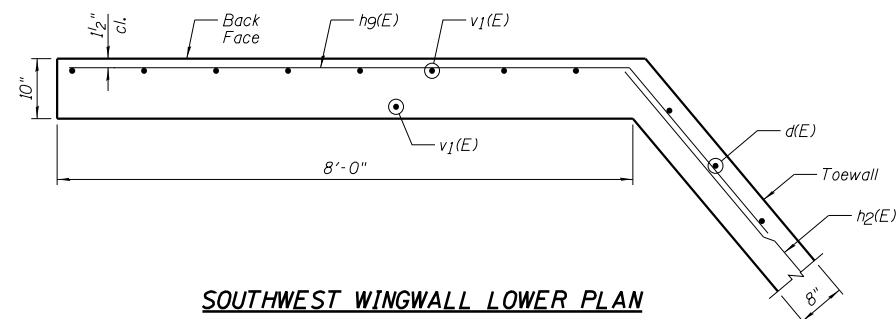
SOUTHEAST WINGWALL ELEVATION



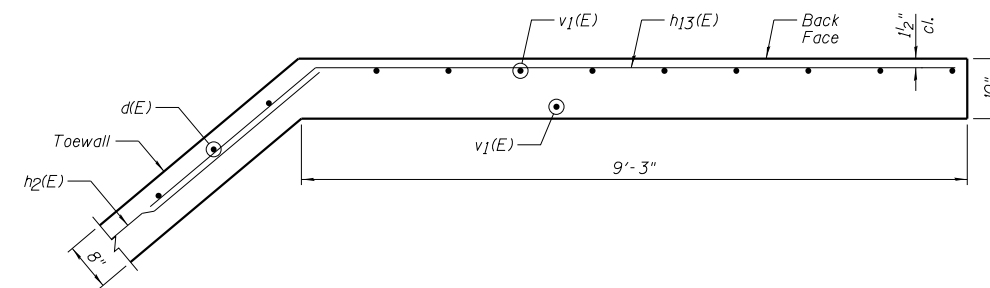
SOUTHWEST WINGWALL UPPER PLAN



SOUTHEAST WINGWALL UPPER PLAN



SOUTHWEST WINGWALL LOWER PLAN

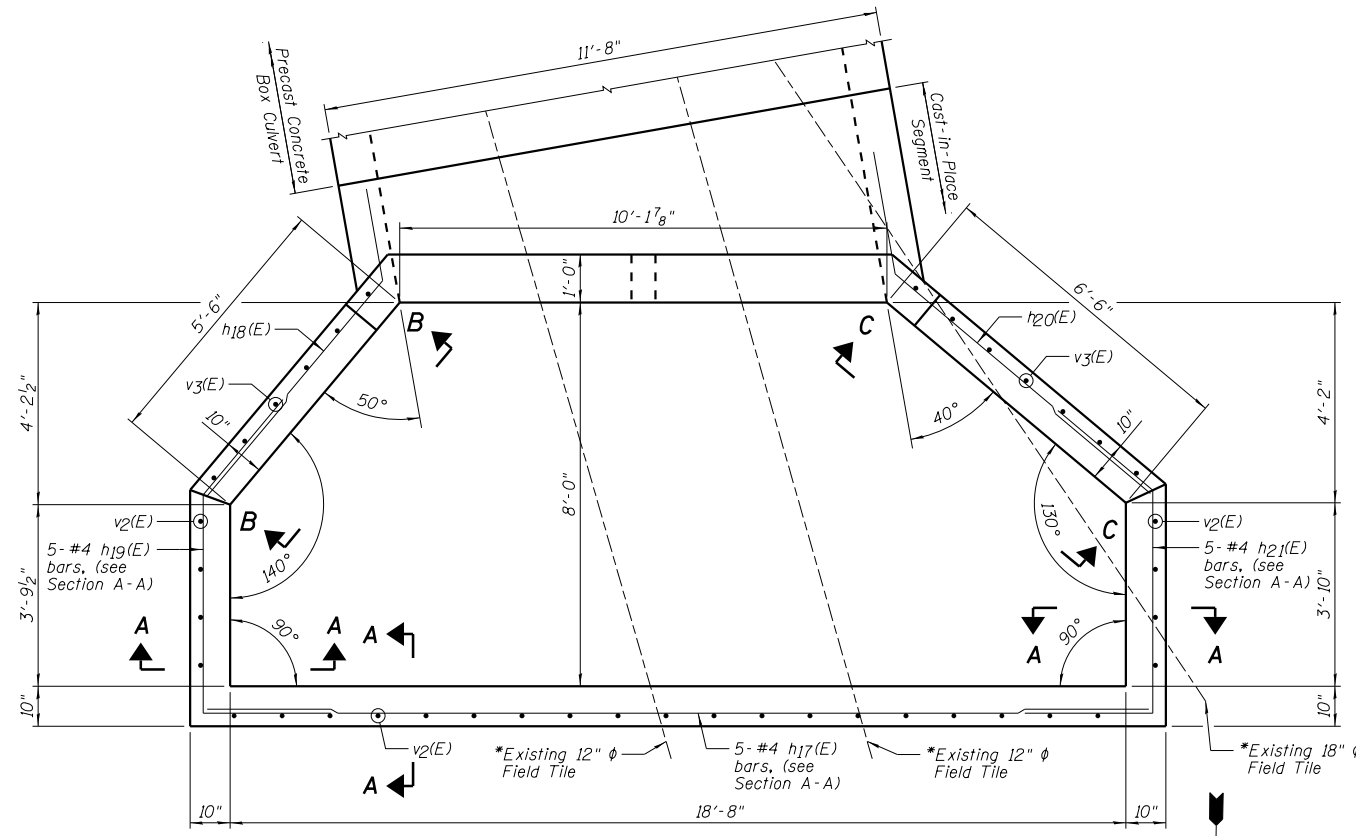


SOUTHEAST WINGWALL LOWER PLAN

NOTE:
For Bar List, see Sheet C2.

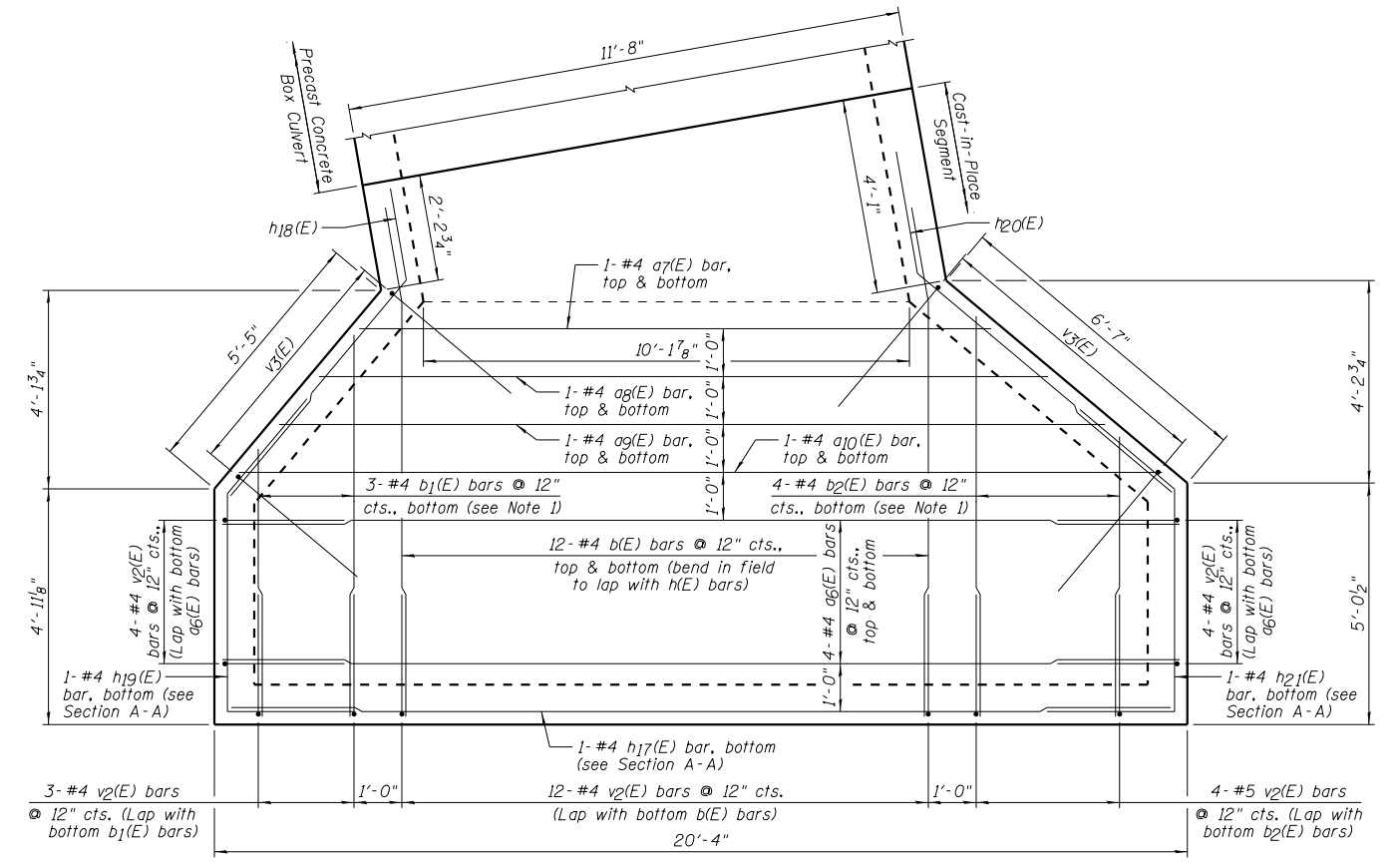
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DRAWN - DJM	REVISED
DATE - 08/10/15	CHECKED - JML
	REVISED

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	(113 CR)	LIVINGSTON	33	19
CONTRACT NO. 66C19				
ILLINOIS FED. AID PROJECT				

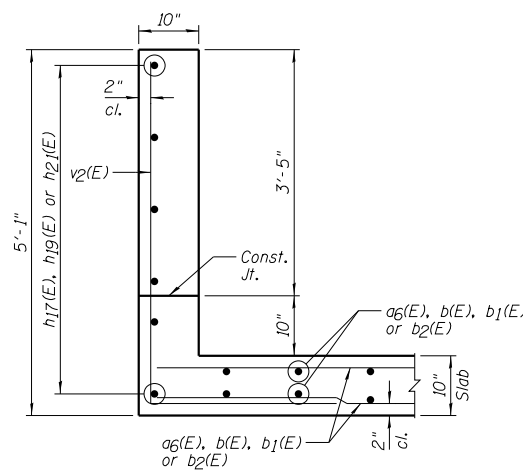


TOP PLAN

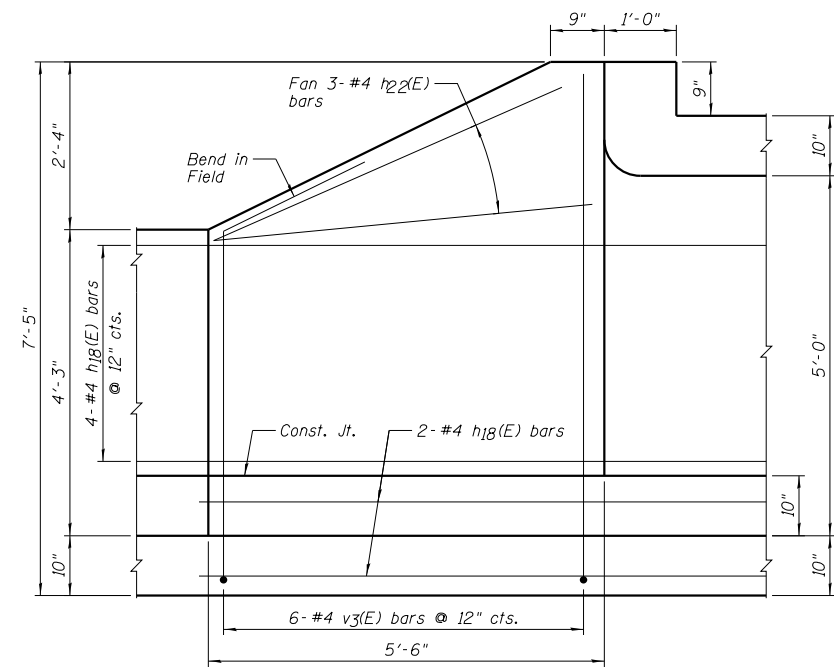
*See General Note No. 13 on Sheet C1.



SLAB PLAN

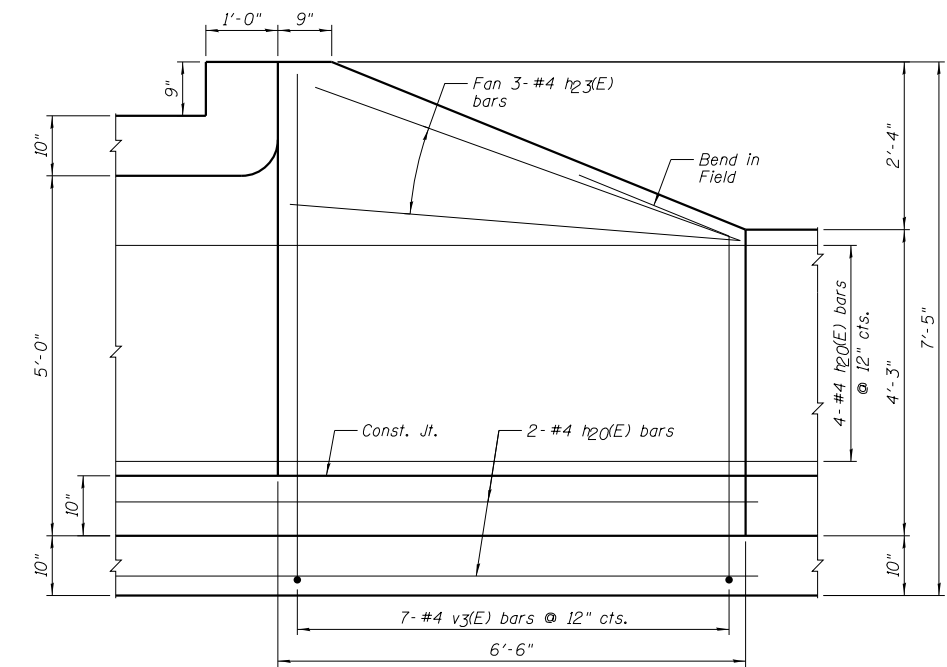


SECTION A-A



VIEW B-B

Slab reinforcement not shown for clarity.



VIEW C-C

Slab reinforcement not shown for clarity.

NOTES:

- 1.) Order b1(E) and b2(E) bars full length, cut according to the Bar Cutting Diagram on Sheet C2. Use remainder of bars in top layer of reinforcement.
- 2.) See Sheet C2 for Typical Reinforcing Around Openings detail.



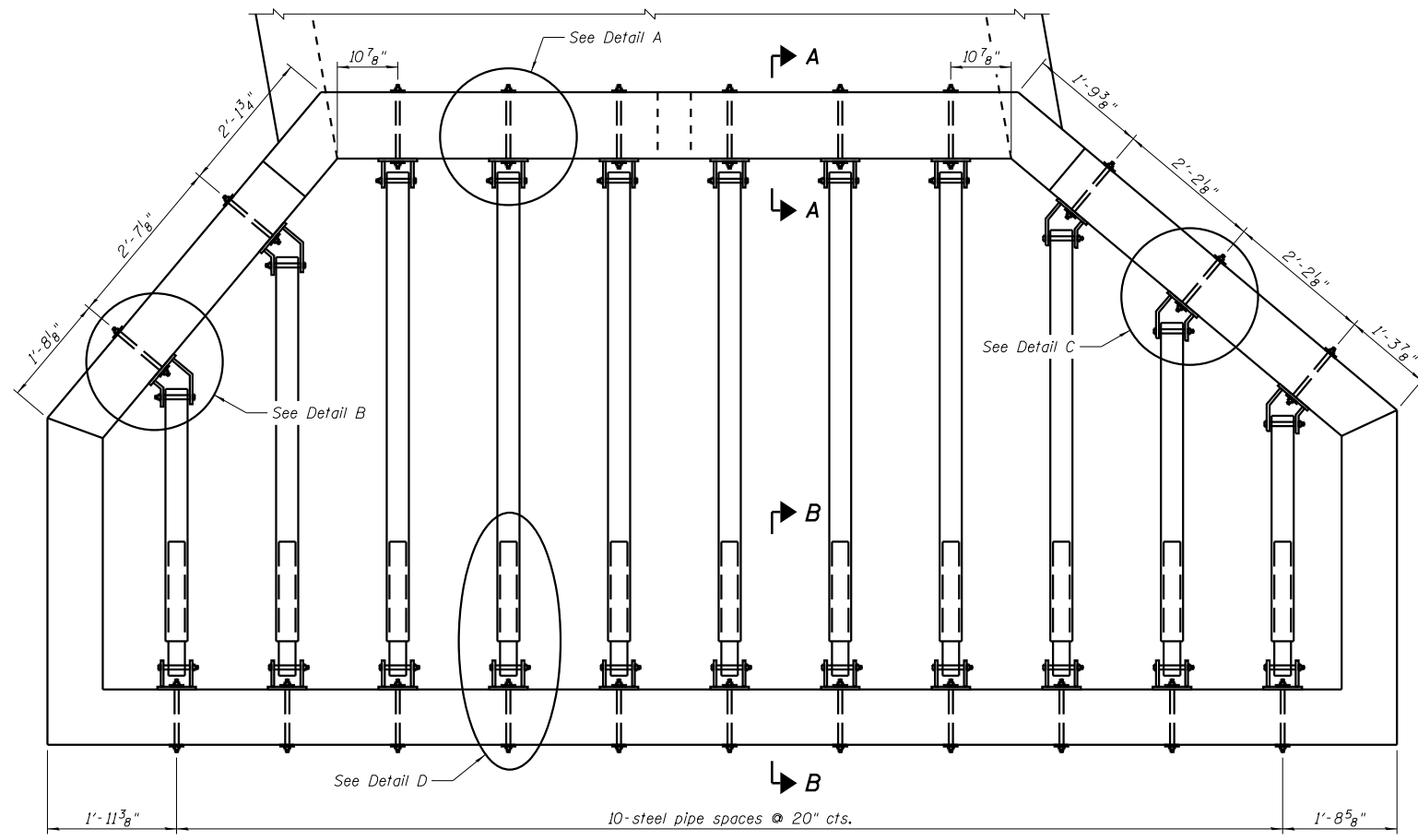
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CHECKED - JML	REVISED
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DATE - 08/10/15	REVISED
CHECKED - JML	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

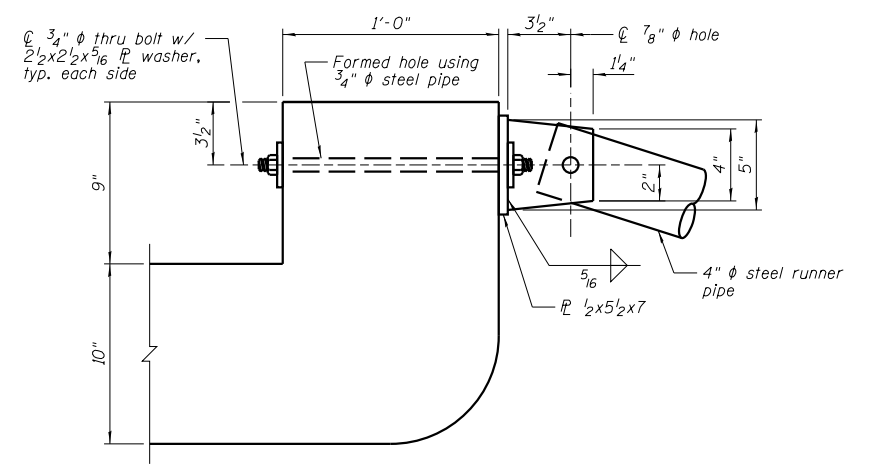
**DROP BOX
STRUCTURE NO. 053-2580**

SHEET NO. CB OF 10 SHEETS

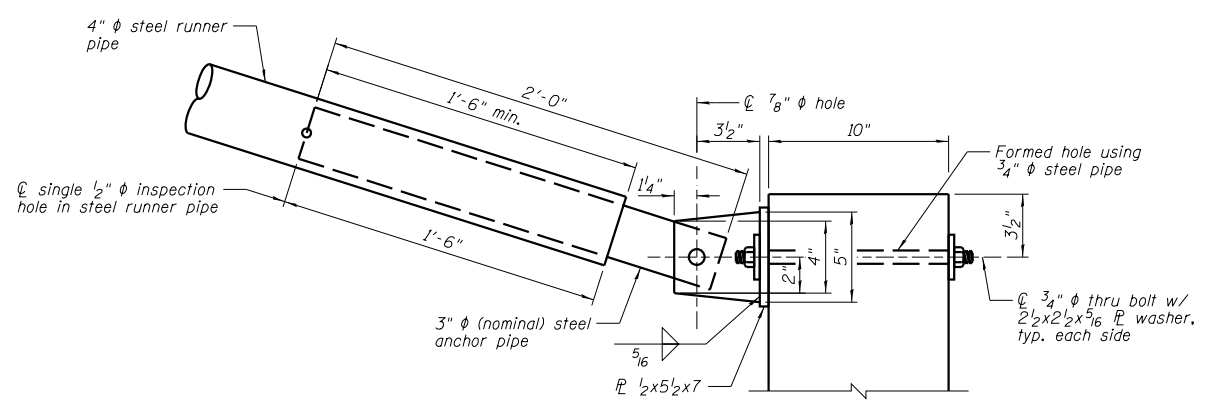
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681	(113 CR)	LIVINGSTON	33	20
CONTRACT NO. 66C19				
ILLINOIS FED. AID PROJECT				



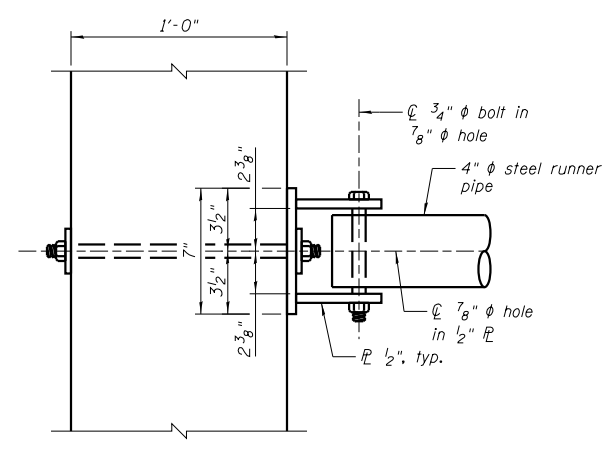
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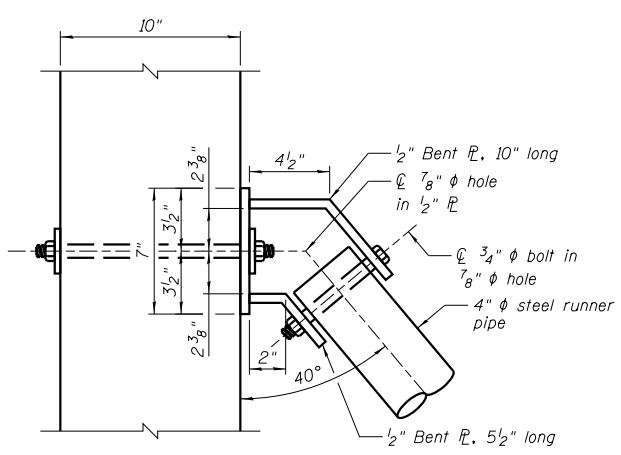
SECTION A-A



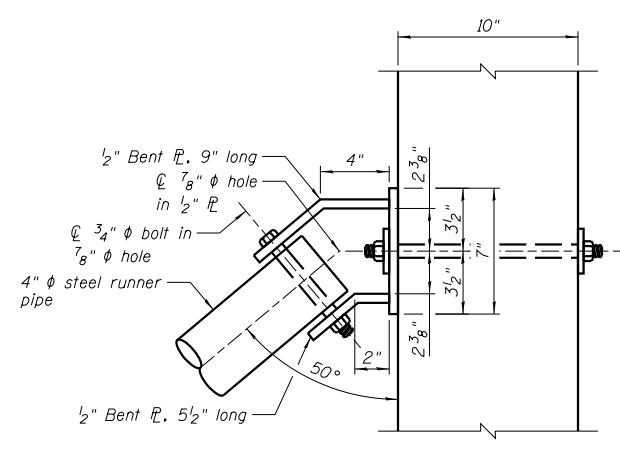
SECTION B-B



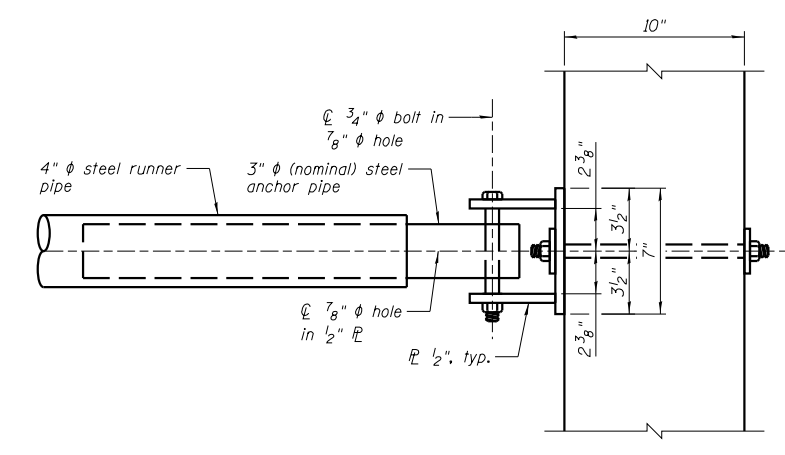
DETAIL A



DETAIL B



DETAIL C



DETAIL D

NOTES:

- 1.) The minimum distance from the center of a hole to the free edge of a structural shape or plate shall be 1/2" unless noted otherwise.
- 2.) Space reinforcement to miss formed holes for connections.

Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

DESIGNED - JCZ	REVISED
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DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 08/10/15	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAVERSABLE PIPE GRATE, SPECIAL
STRUCTURE NO. 053-2580

SHEET NO. C9 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	(113 CR)	LIVINGSTON	33	21
CONTRACT NO. 66C19				

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Page 1 of 1

Date 1/16/13

ROUTE IL 116 (FAP 681) DESCRIPTION IL 116 over a Stream, 9.37 miles East of IL 23 LOGGED BY Larry Myers

SECTION 113 LOCATION NE 1/4, SEC. 24, TWP. 28N, RNG. 6E

COUNTY Livingston DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 053-2557 (Exist.)
 Station 424+00
 BORING NO. 1 (S.W. Quad.)
 Station 423+69
 Offset 13.00ft Rt.
 Ground Surface Elev. 675.19 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION
				Augered White Shoulder Stone, Black Silty Clay Loam Fill	3				Hard Gray Silty Clay Loam Till (continued)
					4	4.1	24.2		
					5	S			
672.69				Hard Black Silty Clay Loam Fill	4				
	5				5	4.1	25.6		
	6	4.5	23.6		6	S			
	5	P							
670.69				Very Stiff Brown & Gray Silty Clay Loess	-25				
	4				4				
	3	3.8	19.5		5	4.1	18.3		
	5	B			6	S			
668.19				Hard Brown & Gray Silty Clay Loam Till	3				
	4	4.2	22.2		4	4.0	20.4		
	5	S			5	S			
					-30				
	5				4				
	6	5.1	17.5		4	4.0	20.9		
	8	S			5	S			
	5								
	5	4.7	20.5						
	6	S							
					-35				
	5				4				
	5	4.7	21.8		5	4.1	23.5		
	6	S			6	S			
658.19				Hard to Very Stiff Gray Silty Clay with Clay & Silt Layers					End of Boring 638.69
	4								
	5	4.1	24.5						
	5	S							
655.69				Hard Gray Silty Clay Loam Till					
					-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 1/16/13

ROUTE IL 116 (FAP 681) DESCRIPTION IL 116 over a Stream, 9.37 miles East of IL 23 LOGGED BY Larry Myers

SECTION 113 LOCATION SE 1/4, SEC. 13, TWP. 28N, RNG. 6E

COUNTY Livingston DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 053-2557 (Exist.)
 Station 424+00
 BORING NO. 2 (N.E. Quad.)
 Station 424+13
 Offset 13.00ft Lt.
 Ground Surface Elev. 675.32 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION
				Augered White Shoulder Stone, Black Silty Clay Loam Fill	3				Hard Gray Silty Clay Loam Till (continued)
					4	4.1	16.2		
					5	S			
672.82				Very Stiff Black Silty Clay Loam Fill	4				
	4				4				
	3	2.5	23.5		4	4.0	21.5		
	3	P			6	S			
670.32				Very Stiff Brown & Gray Silty Clay Loess	-25				
	3				4				
	4	3.5	20.7		4	4.1	19.8		
	4	P			4	S			
667.82				Very Stiff Brown & Gray Silty Clay Loam Till	3				
	3	3.4	21.1		4	4.1	26.4		
	4	B			6	S			
					-30				
	3				4				
	3	3.0	21.2		5	4.1	22.9		
	3	P			6	S			
	3								
	4	3.7	26.3						
	5	B							
					-35				
	3				4				
	4	3.9	25.5		5	4.1	20.1		
	5	B			6	S			
658.32				Hard Gray Silty Clay Loam Till					End of Boring 638.82
	4								
	4	4.1	21.9						
	5	S							
					-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, form 137 (Rev. 8-99)



DESIGNED - JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM	REVISED
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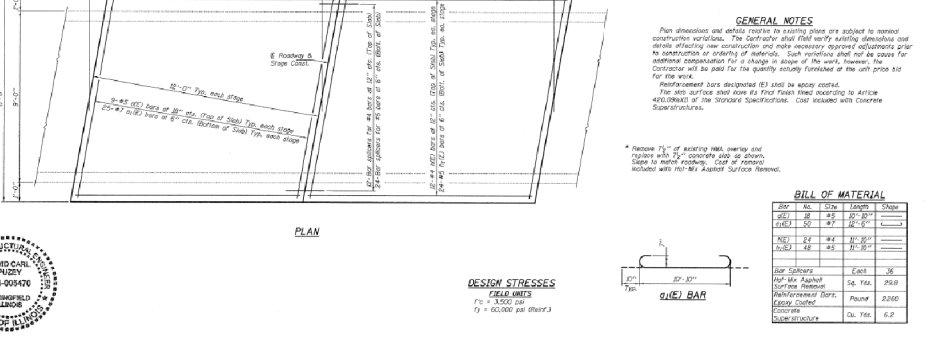
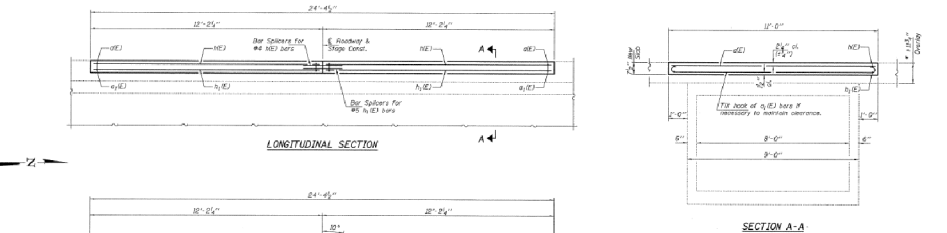
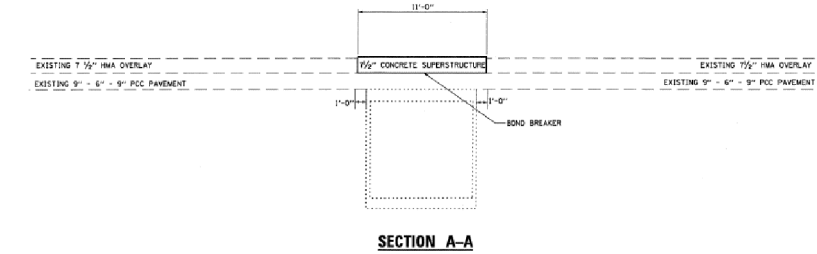
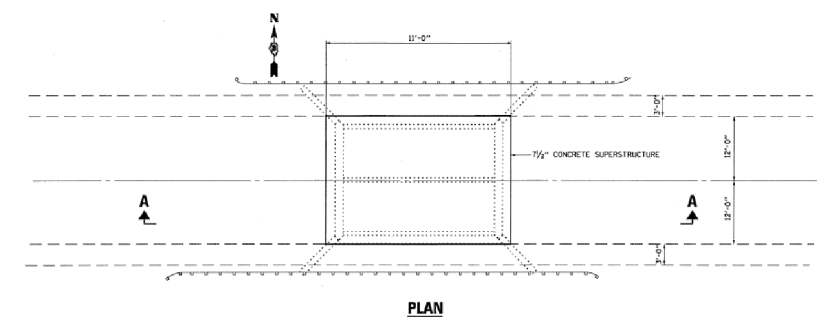
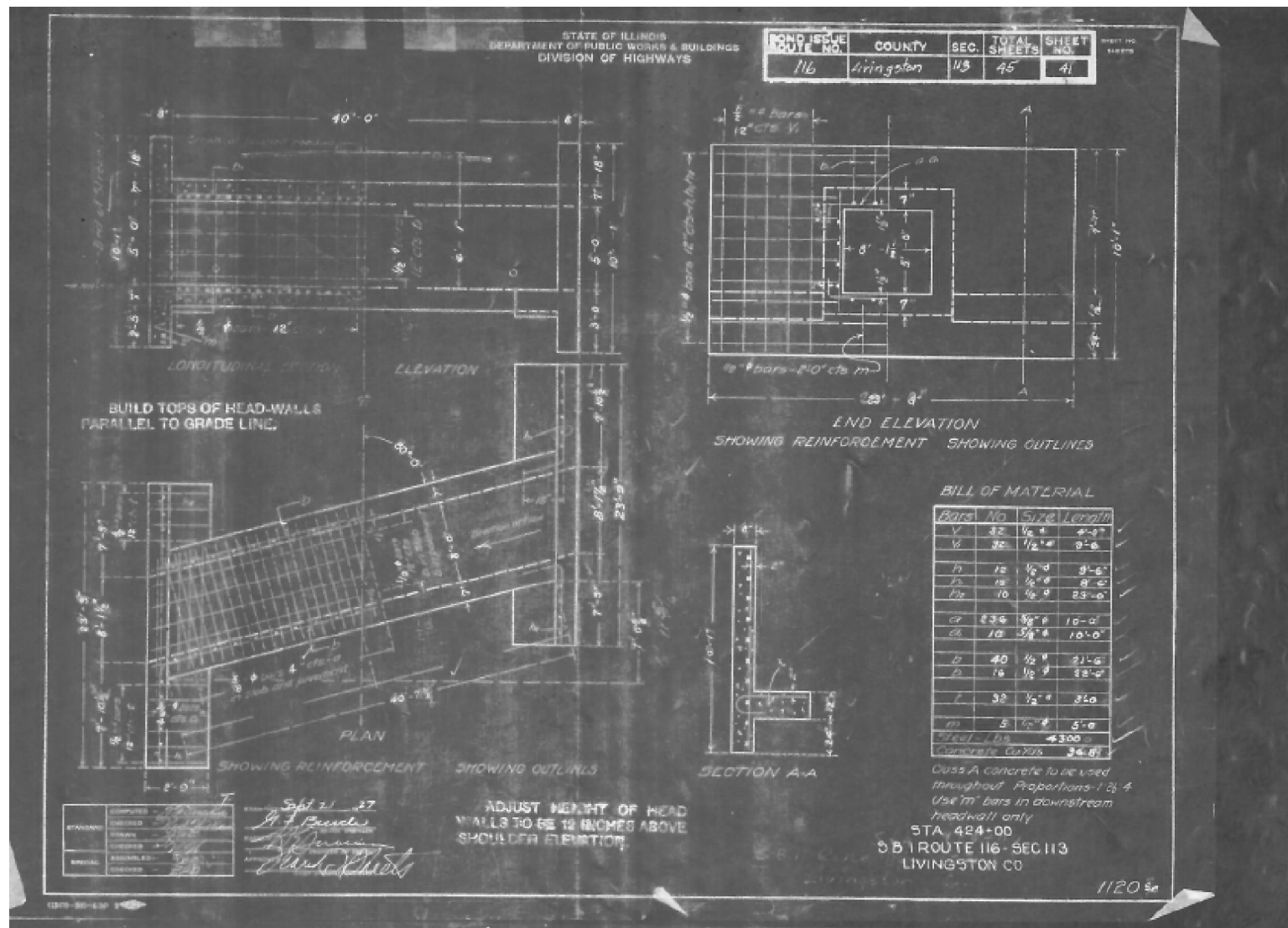
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
 STRUCTURE NO. 053-2580

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	(113 CR)	LIVINGSTON	33	22
CONTRACT NO. 66C19				

SHEET NO. C10 OF 10 SHEETS

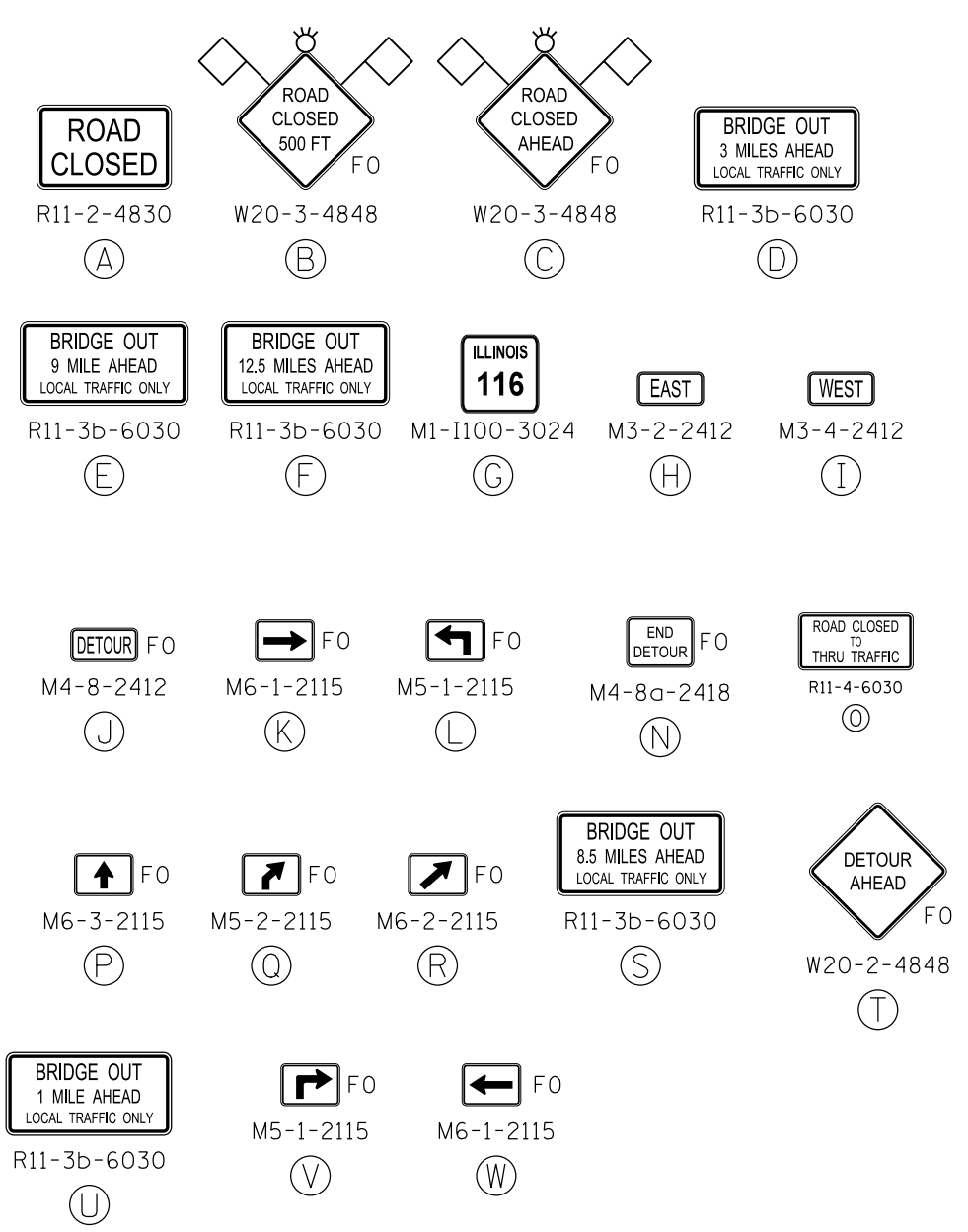
ILLINOIS FED. AID PROJECT



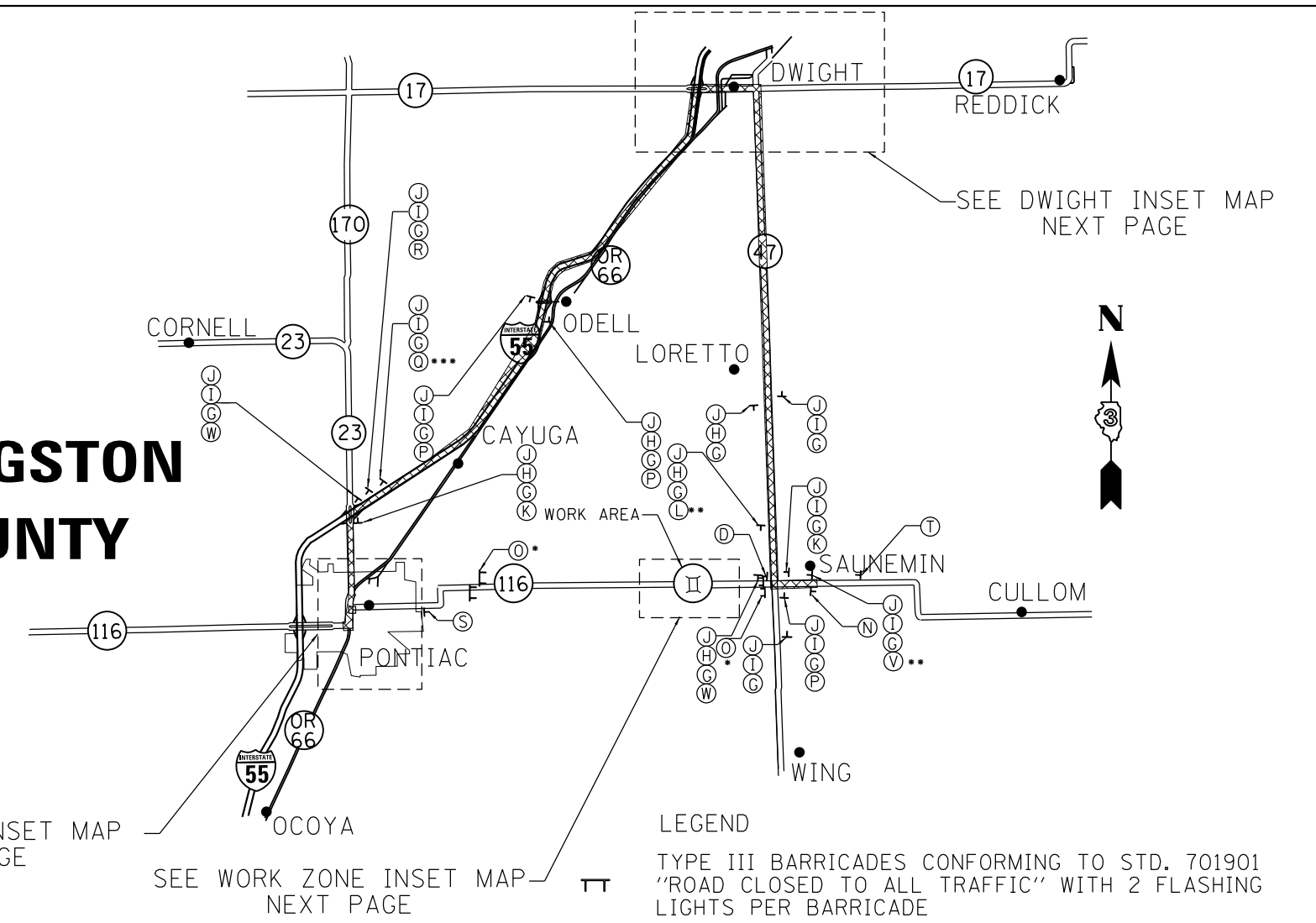
FOR INFORMATION ONLY- ORIGINAL CULVERT PLANS

FOR INFORMATION ONLY- CONCRETE SLAB PLACED OVER CULVERT IN 2012

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE AND PAVEMENT PLANS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\11084EBIDINTEG.illinois.gov\PIWDDTDocuments\DOT Offices\District 3\Projects\03666C19-shr-cover.dwg	braboypc					681	(113)CR	LIVINGSTON	33	23	
PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 66C19		ILLINOIS FED. AID PROJECT			
PLOT DATE = 8/12/2015	DATE -	REVISED -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.			



LIVINGSTON COUNTY



- LEGEND**
- TYPE III BARRICADES CONFORMING TO STD. 701901 "ROAD CLOSED TO ALL TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
 - TYPE III BARRICADES CONFORMING TO STD. 701901 "ROAD CLOSED TO THRU TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
 - SIGNS ON PERMANENT SUPPORTS
 - FLASHING LIGHT ABOVE SIGN
 - 18"x18" ORANGE FLAG ABOVE SIGN
 - DETOUR ROUTE
 - F0** FLORESCENT ORANGE

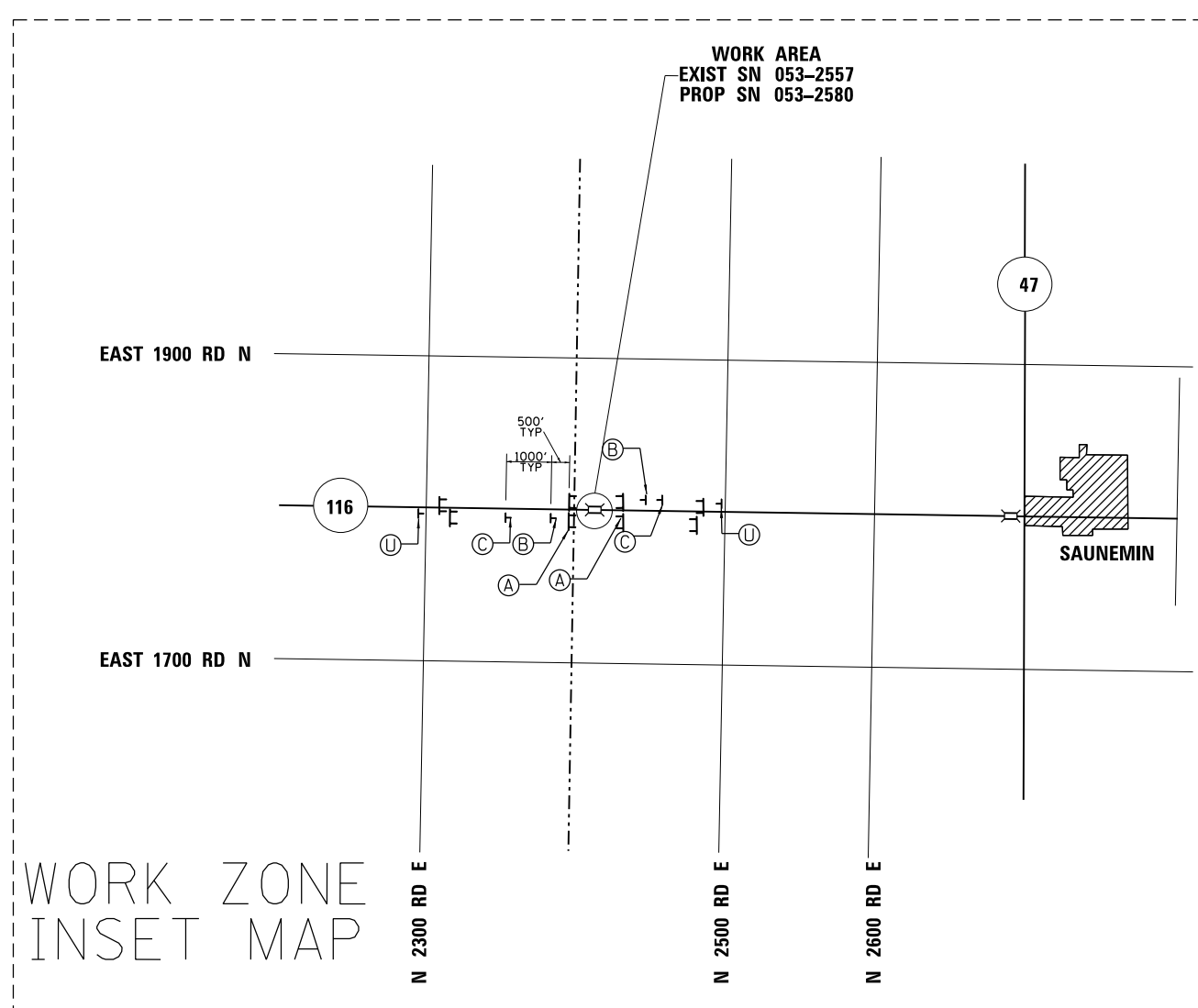
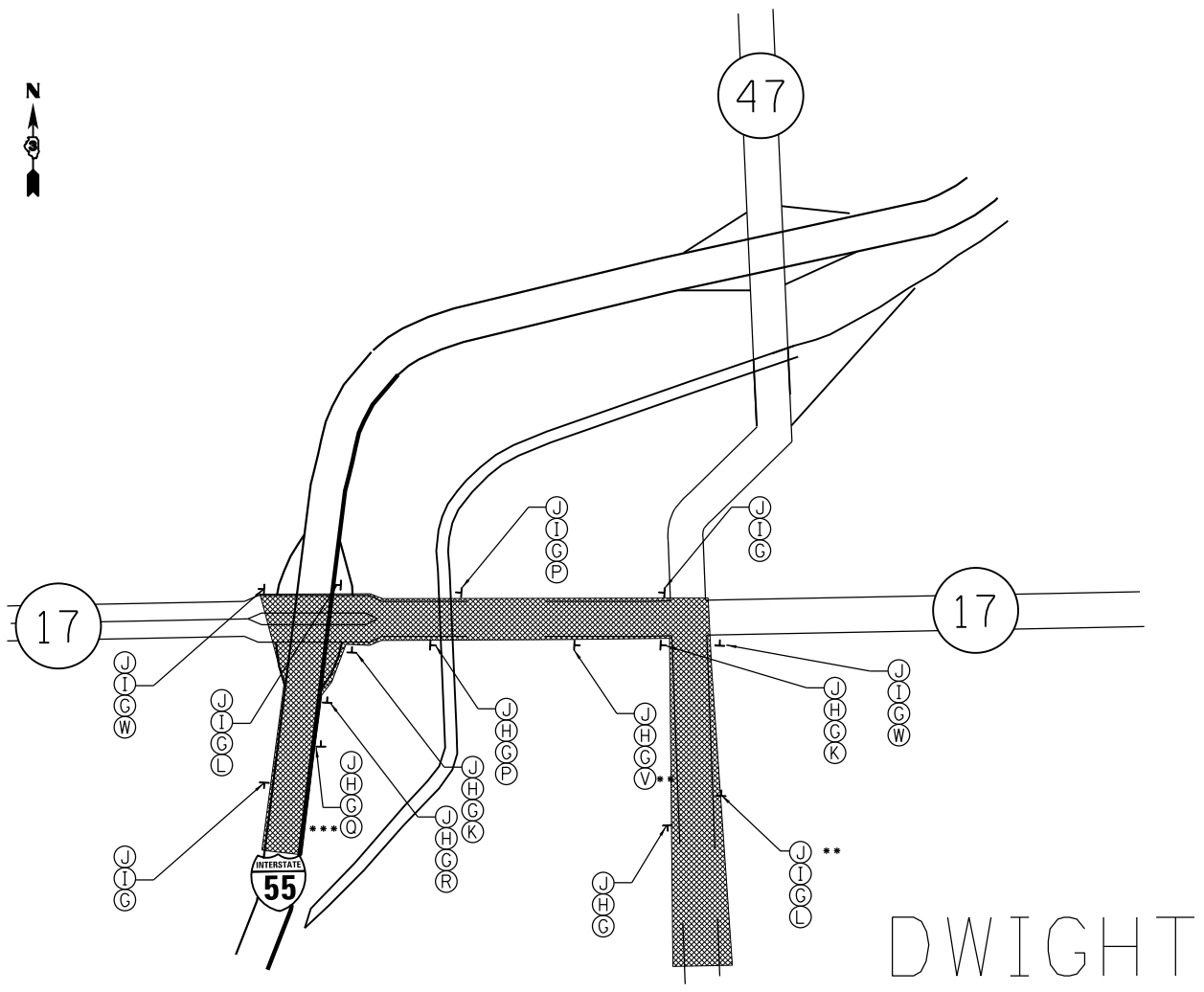
NOTES:

- 1.) ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
- 2.) ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED, UNLESS OTHERWISE NOTED.
- 3.) LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
- 4.) WORK SHALL BE DONE IN ACCORDANCE WITH BLR 21, EXCEPT THAT ALL WARNING SIGNS SHALL BE 48"x48". SEE STD BLR 21 FOR PLACEMENT OF SIGNS A, B, AND C. SIGNS A AND O SHALL BE PLACED ON TYPE III BARRICADES
- 5.) TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, THE HIGHWAY STANDARDS AND SPECIAL PROVISIONS.
- 6.) DIRECT EB AND WB OR 66 TRAFFIC HEADING EB IL 116 TO USE IL 23 AS SHOWN BY SIGNS ABOVE
- 7.) CONFIRMATION DETOUR SIGNS SHALL BE INSTALLED ADJACENT TO EXISTING ROUTE MARKER SIGNS.
- 8.) COVER OR REMOVE ANY EXISTING CONFLICTING SIGNS (NOTE: NO DRILLING OR TAPE WILL BE ALLOWED ON THE SIGN FACE.)

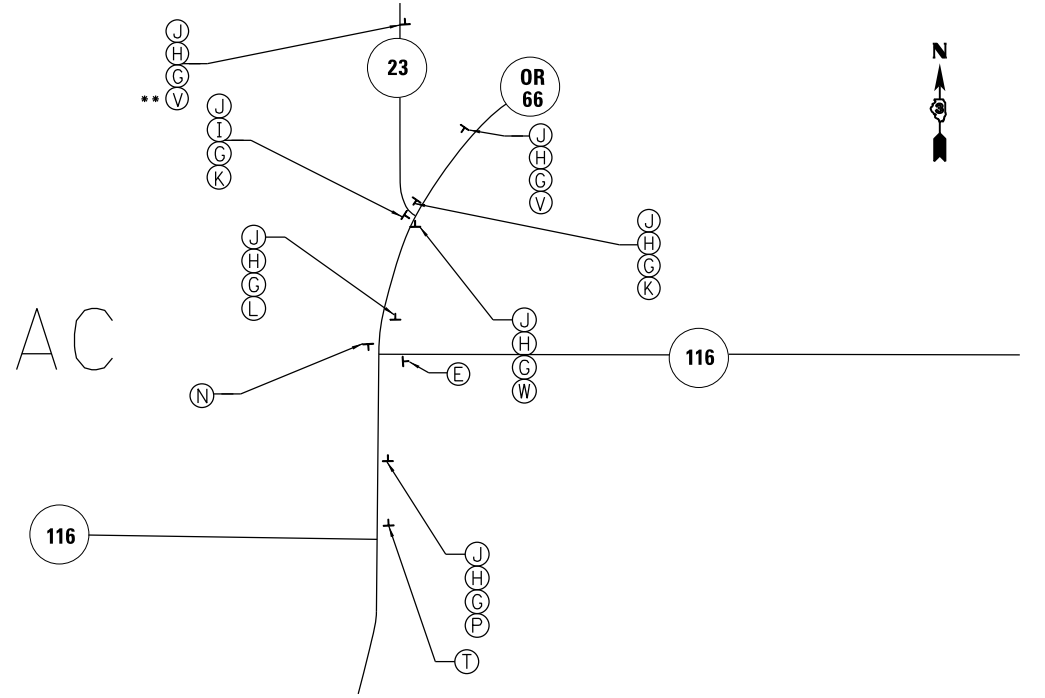
DETOUR MAP NOTES

- * THESE SIGNS SHALL BE PLACED ON STAGGERED TYPE III BARRICADES NEAR THE IL 116/IL 47 INTERSECTION AND TO THE EAST OF THE S CURVE NEAR PONTIAC
- ** THESE SIGN GROUPS SHALL BE PLACED 500' BEFORE INTERSECTIONS
- *** THESE SIGN GROUPS SHALL BE PLACED 1000' BEFORE I-55 OFF-RAMPS

FILE NAME =	USER NAME = brcboypc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR ROUTE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBID\INTEG.illinois.gov\PIWID\Documents\IDOT Offices\District 3\Projects\0366C19\Drawings\0366C19-shd-cover.dwg		CHECKED -	REVISED -		681	(113)CR	LIVINGSTON	33	24		
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -		CONTRACT NO. 66C19						
PLOT DATE = 8/7/2015					ILLINOIS FED. AID PROJECT						



PONTIAC



CITY
INSET
MAPS

LEGEND

- TYPE III BARRICADES CONFORMING TO STD. 701901 "ROAD CLOSED TO ALL TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- TYPE III BARRICADES CONFORMING TO STD. 701901 "ROAD CLOSED TO THRU TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- SIGNS ON PERMANENT SUPPORTS
- FLASHING LIGHT ABOVE SIGN
- 18"x18" ORANGE FLAG ABOVE SIGN
- DETOUR ROUTE*
- F0 FLORESCENT ORANGE

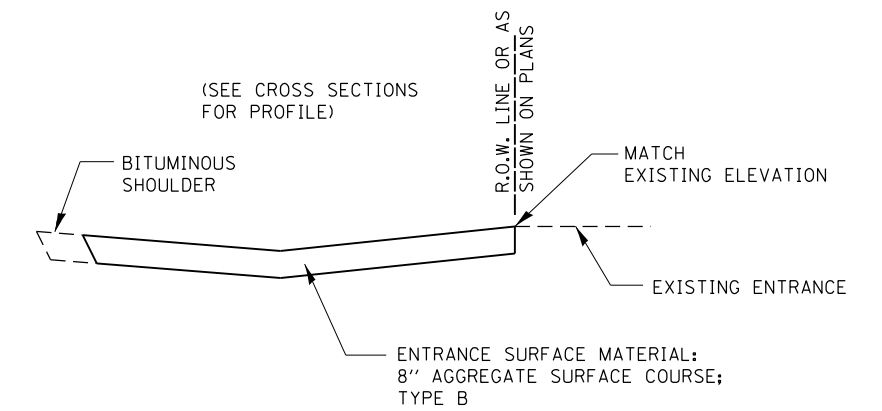
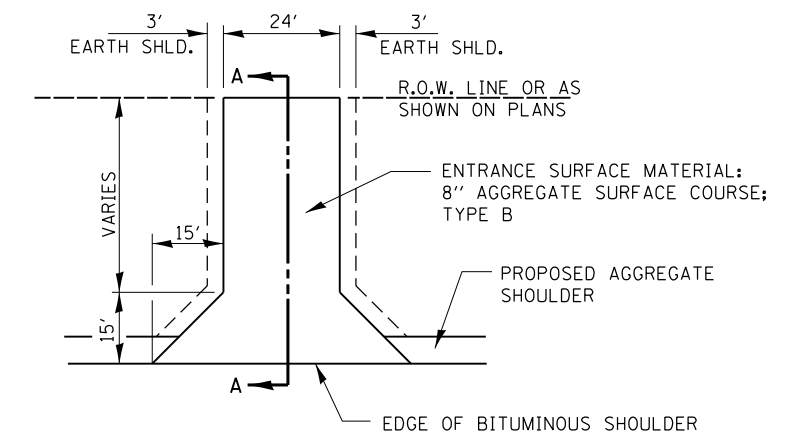
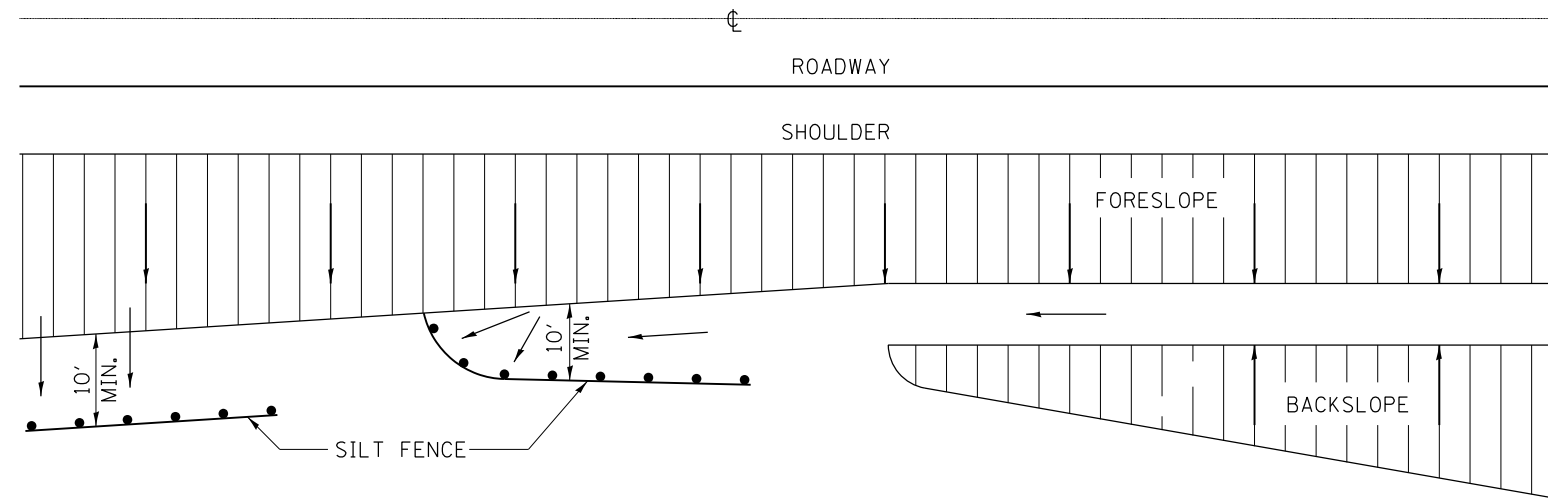
** THESE SIGN GROUPS SHALL BE PLACED 500' BEFORE INTERSECTIONS
*** THESE SIGN GROUPS SHALL BE PLACED 1000' BEFORE I-55 OFF-RAMPS

FILE NAME =	USER NAME = braboypc	DESIGNED -	REVISED -
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PLOT DATE = 8/7/2015			

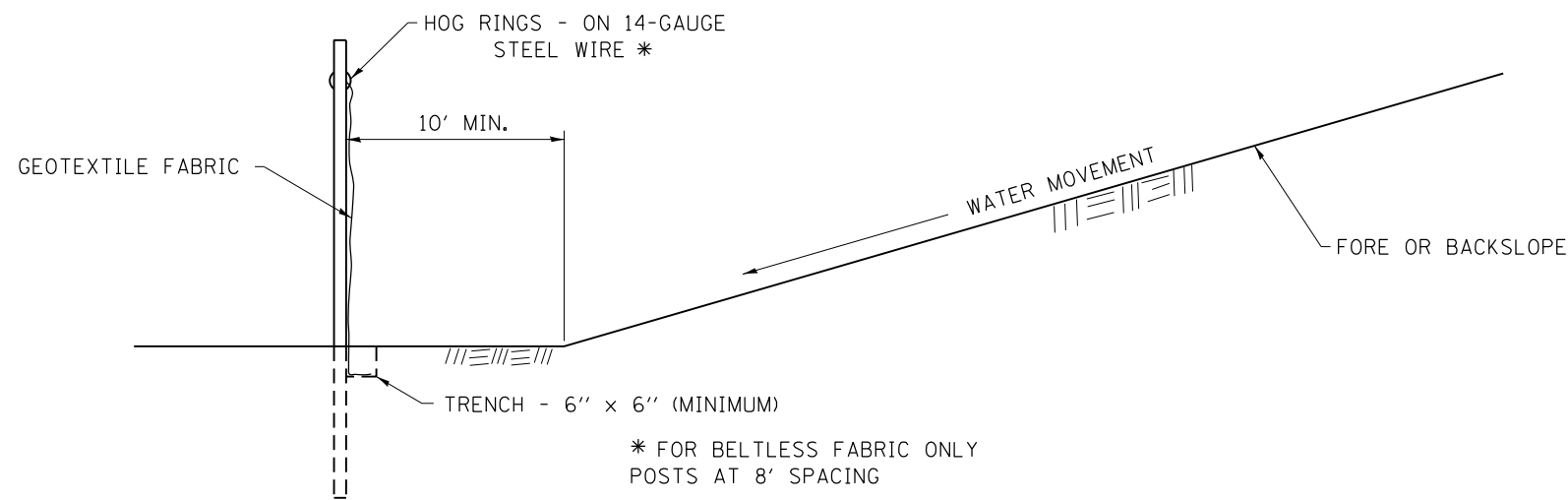
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR ROUTE

SCALE: _____	SHEET NO. ____ OF ____ SHEETS	STA. _____ TO STA. _____	F.A.P. RTE. 681	SECTION (113)CR	COUNTY LIVINGSTON	TOTAL SHEETS 33	SHEET NO. 25
						CONTRACT NO. 66C19	
ILLINOIS FED. AID PROJECT							

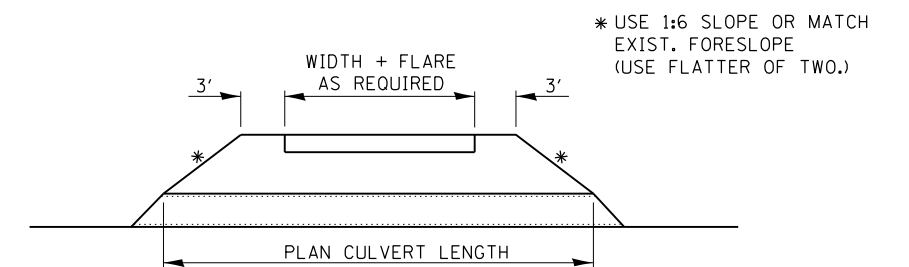


SECTION A-A



DETAILS OF SILT FENCE

EROSION CONTROL DETAILS FOR SILT FENCE



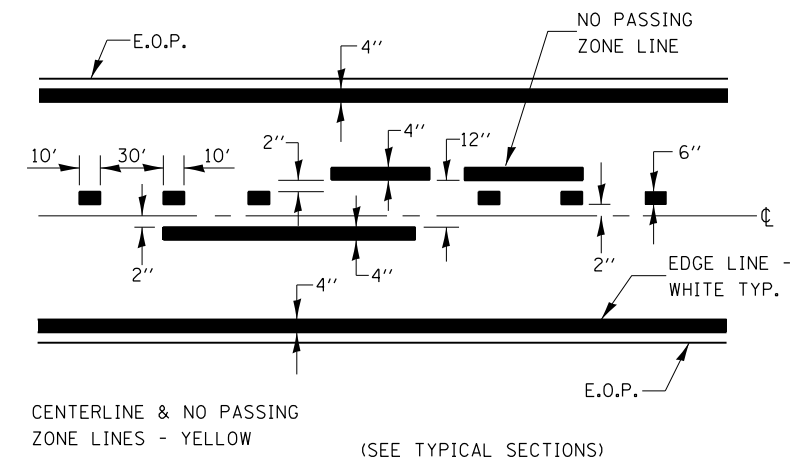
FIELD ENTRANCE DETAIL

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		DATE -	REVISED -

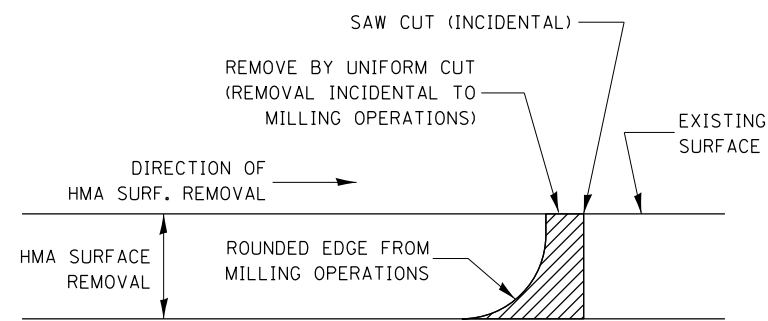
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS	
SCALE: _____	SHEET NO. ___ OF ___ SHEETS
STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	(113)CR	LIVINGSTON	33	26
CONTRACT NO. 66C19				
ILLINOIS FED. AID PROJECT				

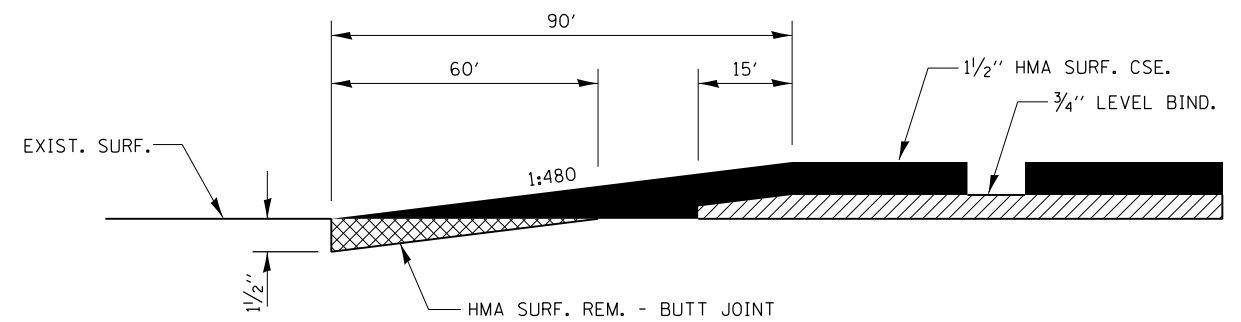


PAVEMENT MARKING



NOTE:
 WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE,
 THEN A SAW CUT SHALL BE USED TO MANUFACTURE
 A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL.
 THE ENGINEER SHALL BE THE SOLE JUDGE
 CONCERNING THE USE OF THIS DETAIL

HMA DETAIL AT BUTT JOINTS

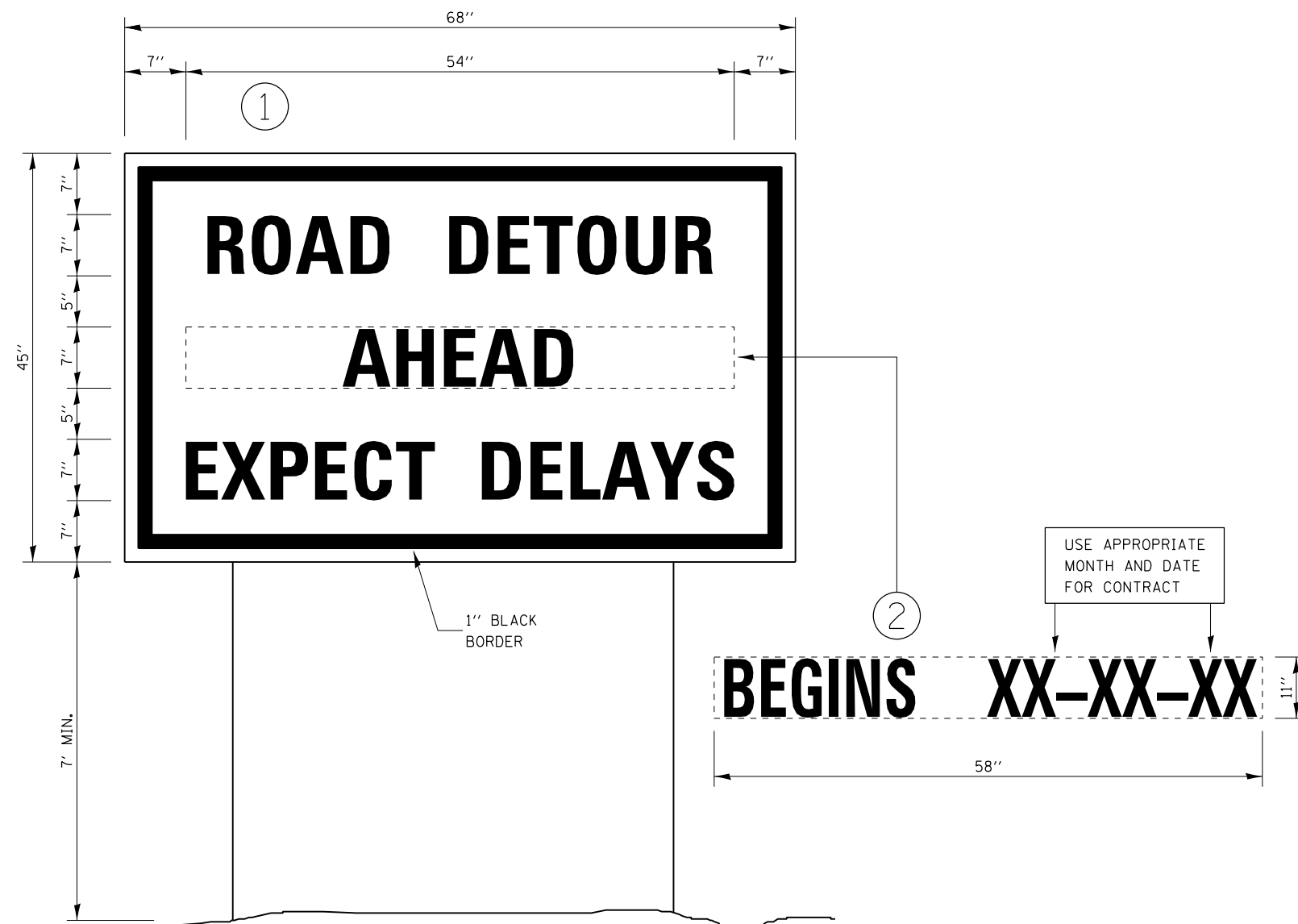


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		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETAILS	
SCALE: _____	SHEET NO. ___ OF ___ SHEETS
STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	(113)CR	LIVINGSTON	33	27
CONTRACT NO. 66C19				
ILLINOIS FED. AID PROJECT				



TEMPORARY INFORMATION SIGN

NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS 500 FT. IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF DETOUR.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGN" FOR ADDITIONAL INFORMATION.
6. SHALL BE PAID FOR AS EACH TEMPORARY INFORMATION SIGN.

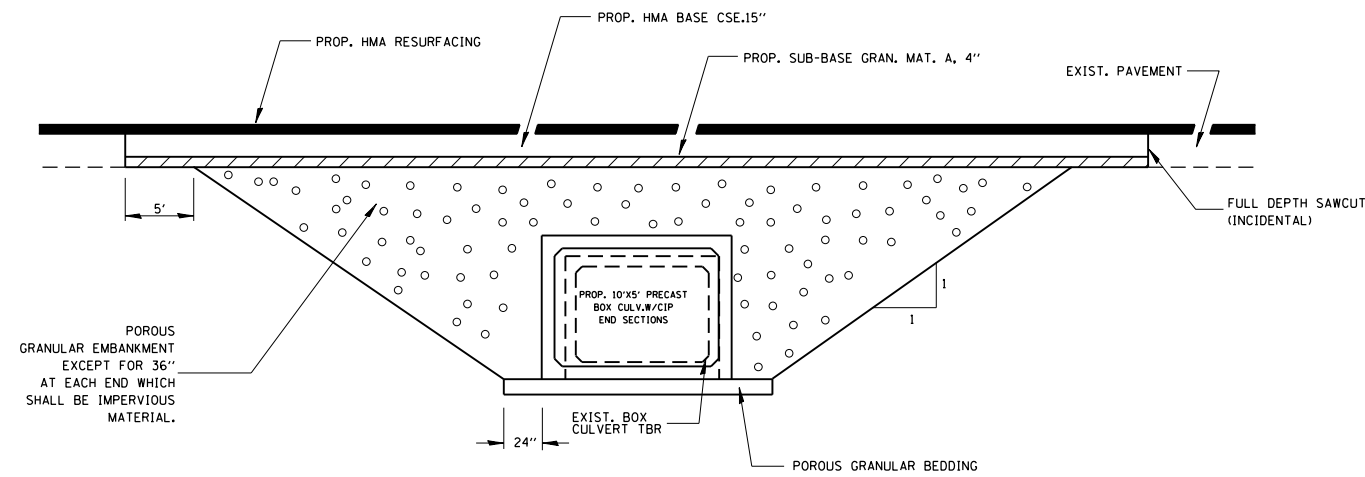
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

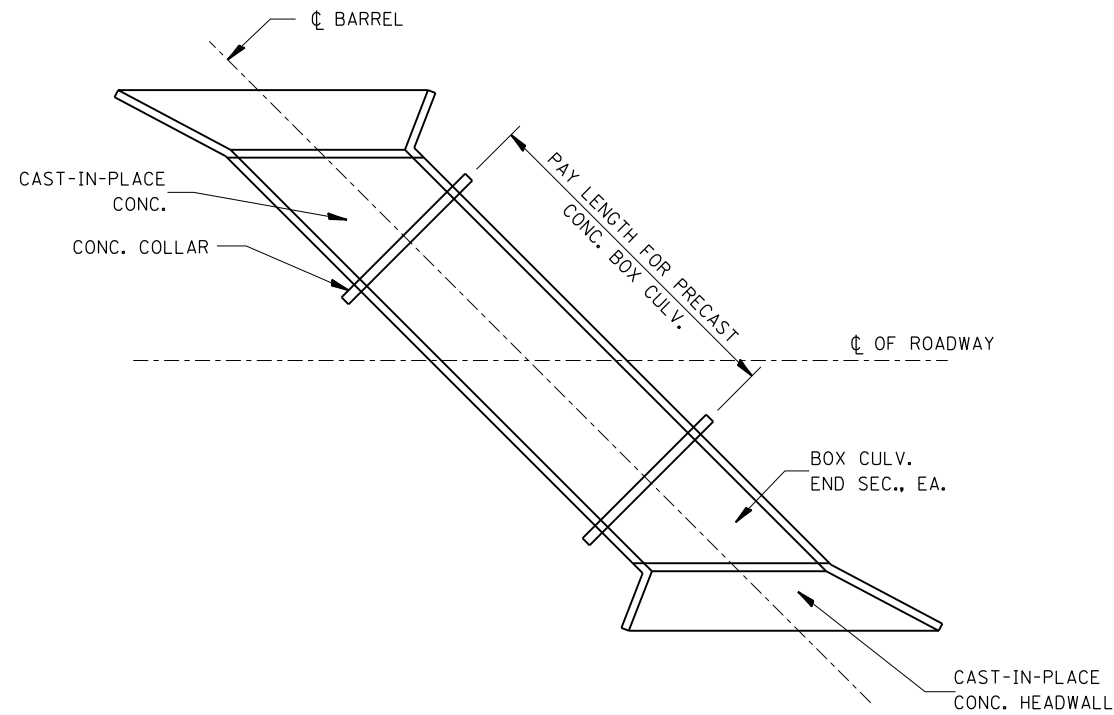
DETAILS

SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	(113)CR	LIVINGSTON	33	28
CONTRACT NO. 66C19				
ILLINOIS FED. AID PROJECT				

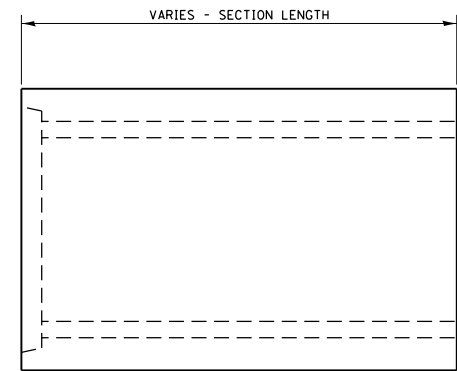


SECTION THROUGH PRECAST BOX CULVERT

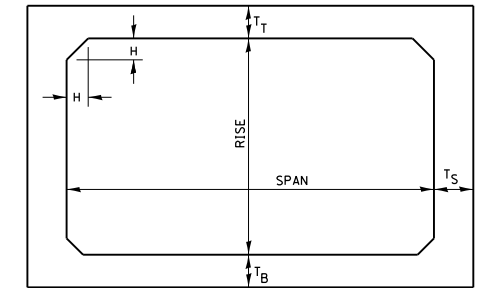


PAY LENGTH FOR PRECAST CONCRETE BOX CULVERT SKEWED WITH ROADWAY

N.T.S.



ELEVATION



NOTE: THE HAUNCH DIMENSION H, IS EQUAL TO THE WALL THICKNESS T_S.

TYPICAL BOX SECTION

SPAN, FEET	T _T , INCHES		T _B , INCHES		T _S , INCHES	
	M 259	M 273	M 259	M 273	M 259	M 273
3	4	7	4	6	4	4
4	5	7 1/2	5	6	5	5
5	6	8	6	7	6	6
6	7	8	7	7	7	7
7	8	8	8	8	8	8
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12

TYPICAL THICKNESSES

GENERAL NOTES:

MINIMUM COVER FOR BOX CULVERTS SHALL BE 6".

PRECAST CULVERT DETAILS

FILE NAME =	USER NAME = braboypc	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 3\Projects\0366C19\Drawings\0366C19-shr-cover.dwg		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

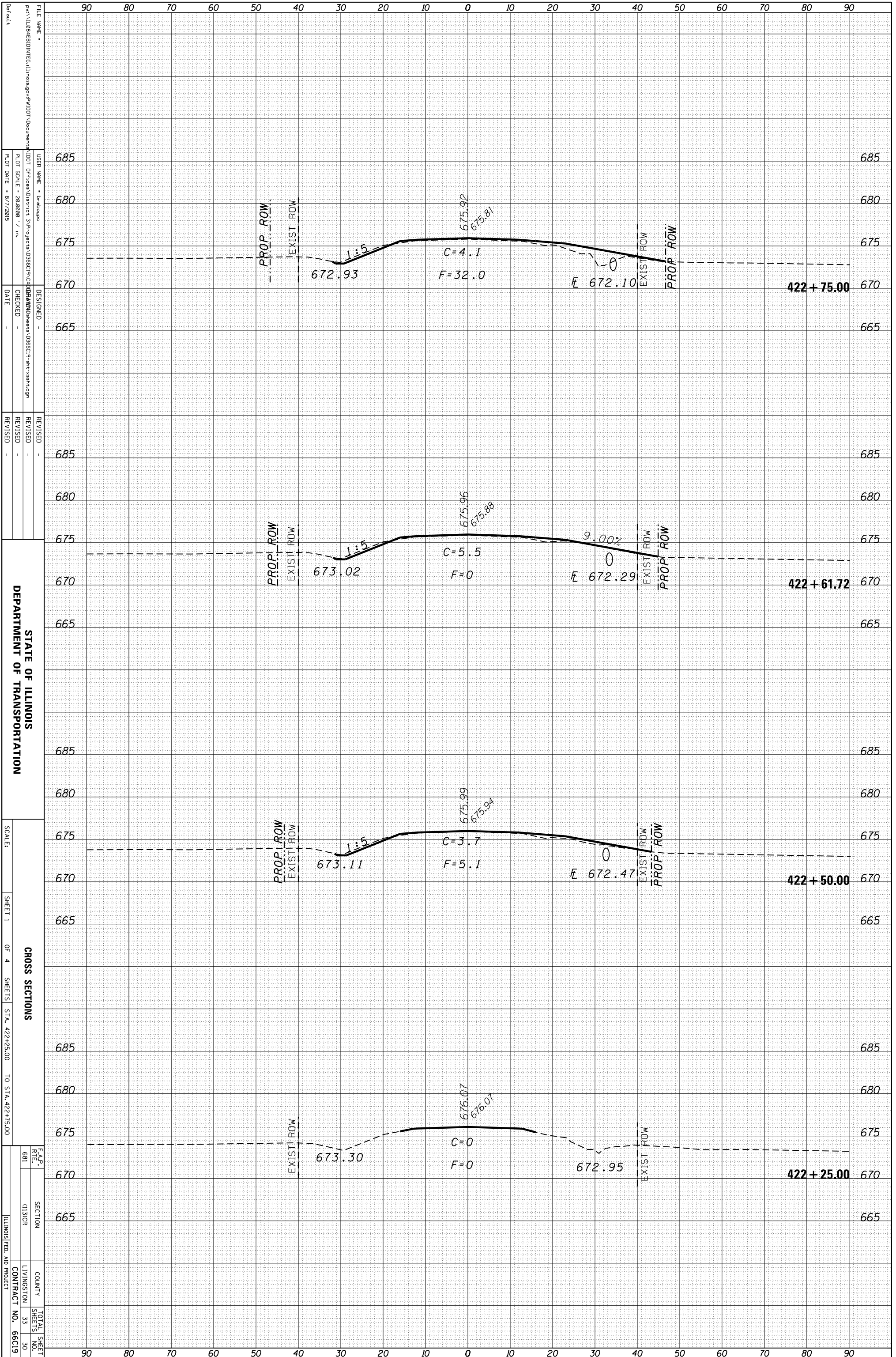
CULVERT DETAILS

SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	(113)CR	LIVINGSTON	33	29
CONTRACT NO. 66C19				
ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



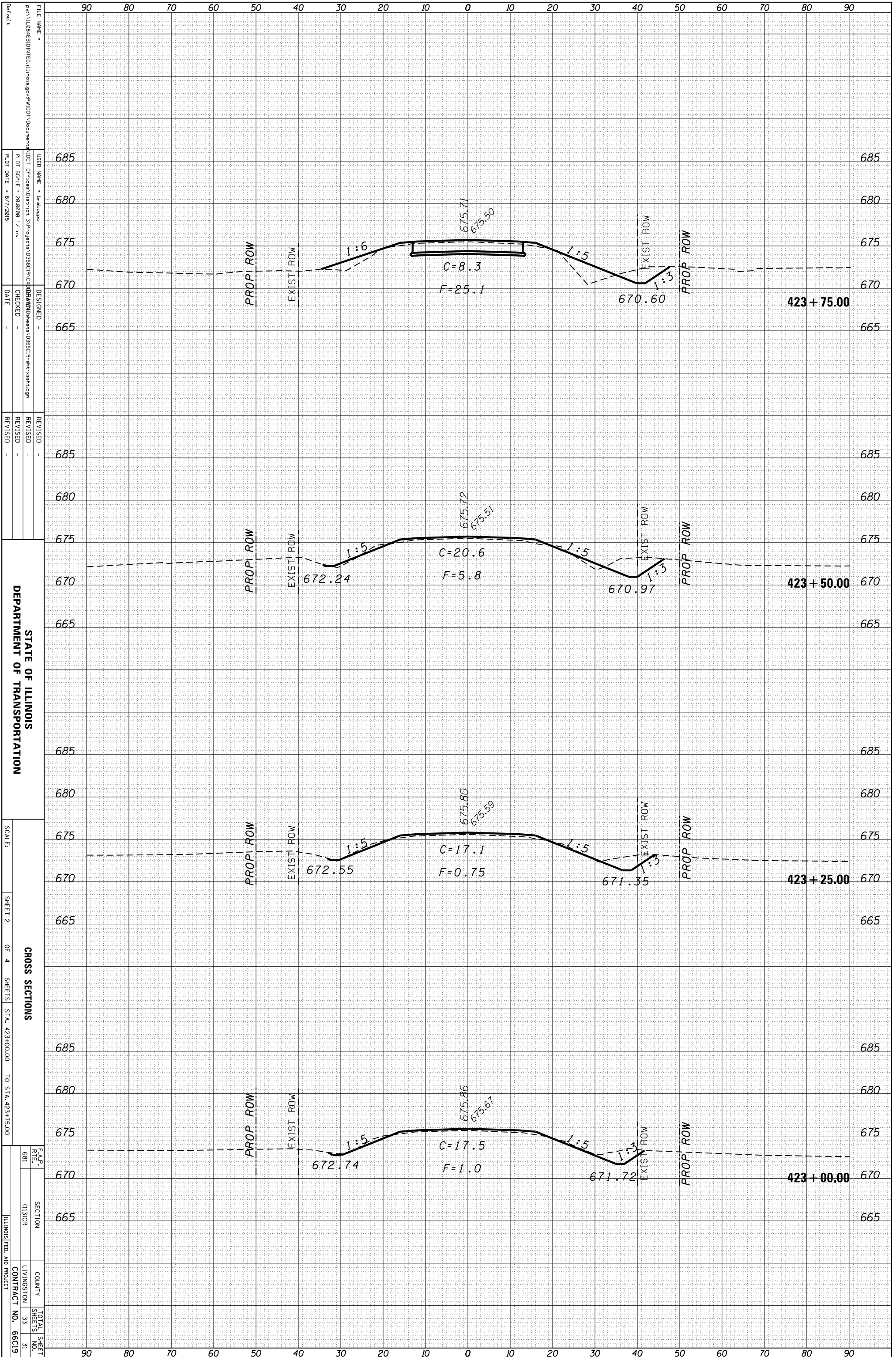
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SHEET 1 OF 4 SHEETS STA. 422+25.00 TO STA. 422+75.00

FILE NAME =	USER NAME =	DESIGNED	REVISOR
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Path: \\L0848E01NTEG\Illinois\gpr\p\1001\Documents\1001\Office\Director\3\Projects\066C19\CAD\DRAWING\066C19\shh\shh.dgn	REVISION	DATE	REVISION
PLT SCALE = 28.0000 / in.	-	-	-
PLT DATE = 8/7/2015	-	-	-
SCALE:	SHEET 1	OF 4	SHEETS
STA. 422+25.00	TO STA. 422+75.00		TOTAL SHEET NO. 30
SECTION	COUNTY	CONTRACT NO.	CONTRACT NO.
1131CR	LIVINGSTON	33	66C19
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SHEET 2 OF 4 SHEETS STA. 423+00.00 TO STA. 423+75.00

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
681	1133CR	LIVINGSTON	33
			31
		CONTRACT NO.	66C19
		ILLINOIS FED. AID PROJECT	

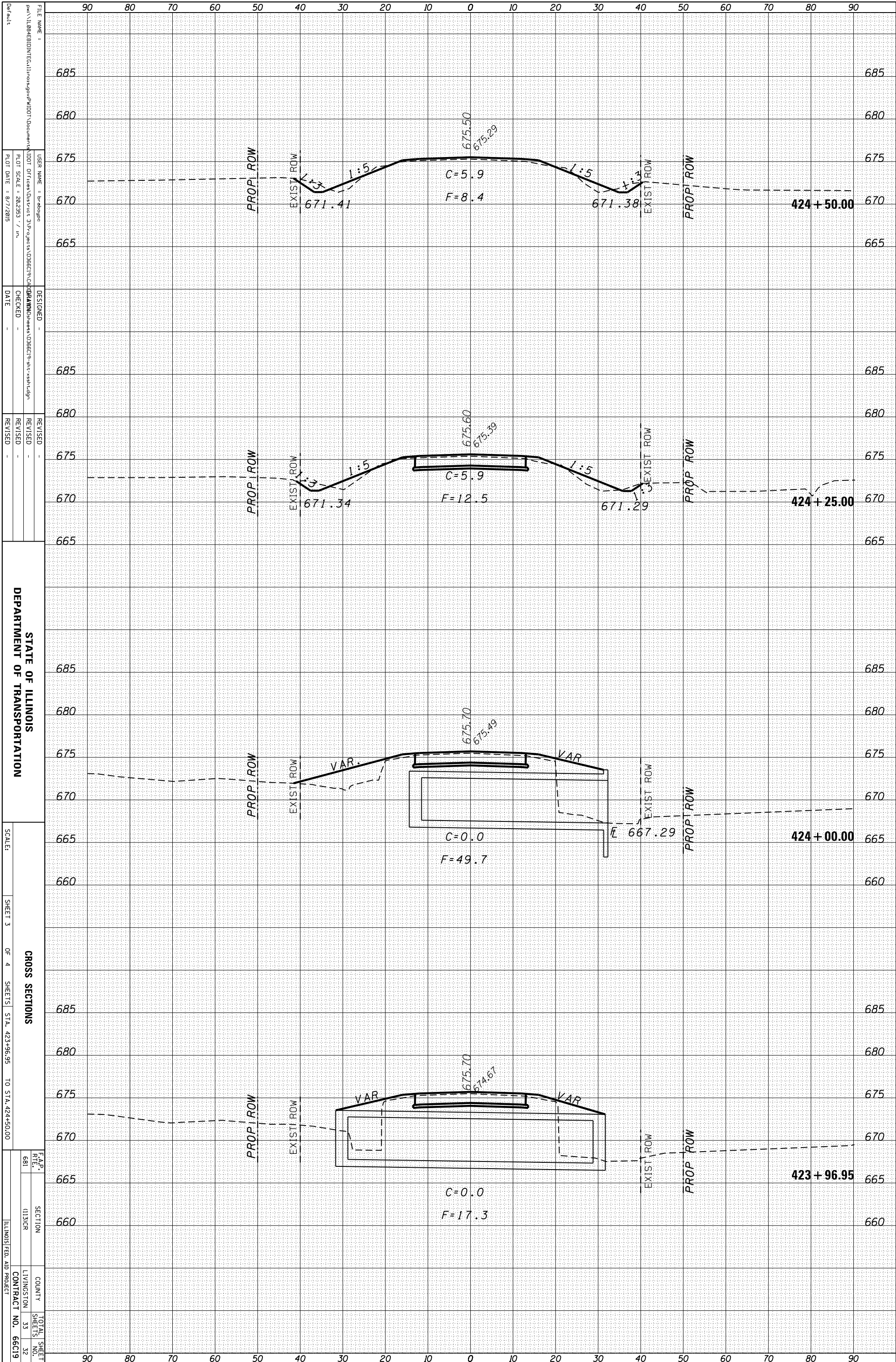
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PLOT DATE = 8/7/2015

DESIGNED -
CHECKED -
DATE -

REVISOR -
REVISION -
DATE -

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		



FILE NAME = ...
 USER NAME = bradspice
 DESIGNED -
 CHECKED -
 DATE -
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 REVISION NO. | DATE | DESCRIPTION
 1 | |
 2 | |
 3 | |
 4 | |
 5 | |
 6 | |
 7 | |
 8 | |
 9 | |
 10 | |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 OF 4 SHEETS STA. 423+96.95 TO STA. 424+50.00

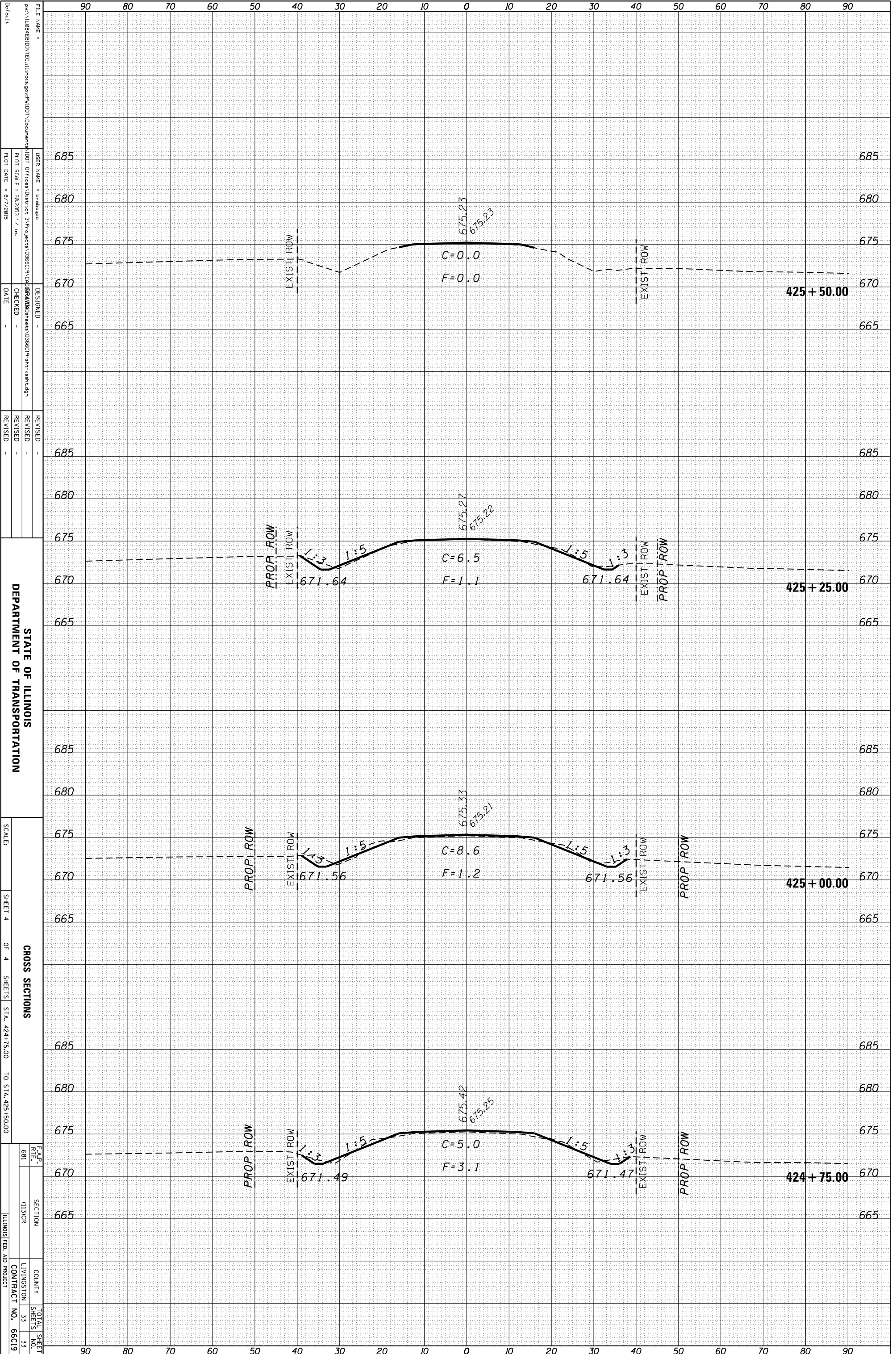
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F.A.P. R.E. SECTION COUNTY TOTAL SHEETS NO.
 681 1131CR LIVINGSTON 33
 66C19

ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		



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

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET 4 OF 4 SHEETS STA. 424+75.00 TO STA. 425+50.00

CROSS SECTIONS

F.A.P. FILE #	SECTION	COUNTY	TOTAL SHEET NO.
681	(113)CR	LIVINGSTON	33

CONTRACT NO. 66C19
 ILLINOIS FED. AID PROJECT