

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	BOND	46	1
BOND, MADISON		ILLINOIS	CONTRACT NO. 76L43	

PROPOSED HIGHWAY PLANS

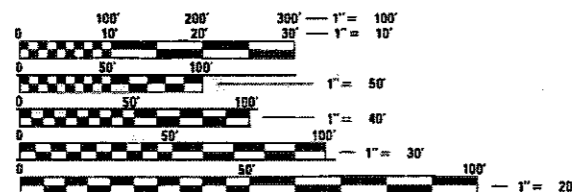
FAI ROUTE 70 (I-70) SECTION 3-1HB-2 PROJECT NHPP-MEJI(001) BRIDGE DECK REPLACEMENT BOND COUNTY

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES AND COMMITMENTS
- 3 - 6 SUMMARY OF QUANTITIES
- 7 - 8 TYPICAL SECTIONS
- 9 - 10 SCHEDULE OF QUANTITIES
- 11 ALIGNMENT, TIES & BENCHMARKS
- 12 PLAN AND PROFILE
- 13 TRAFFIC CONTROL PLAN
- 14 DETAILS
- 15 - 32 SN 003-0042 REPAIR PLANS
- 33 - 46 CROSS SECTIONS

HIGHWAY STANDARDS (IN PROPOSAL)

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 442201-03 CLASS C AND D PATCHES
- 515001-03 NAME PLATE FOR BRIDGES
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630301-08 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631031-15 TRAFFIC BARRIER TERMINAL TYPE 6
- 701101-05 OFF-ROAD OPERATIONS MULTILANE 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS MULTILANE MORE THAN 15' (4.5 M) AWAY
- 701400-09 APPROACH TO LANE CLOSURE FREEWAY/EXPRESSWAY
- 701401-11 LANE CLOSURE FREEWAY/EXPRESSWAY
- 701426-09 LANE CLOSURE MULTILANE INTERMITTENT OR MOVING OPERATION FOR SPEEDS > 45 MPH
- 701428-01 TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
- 701901-07 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

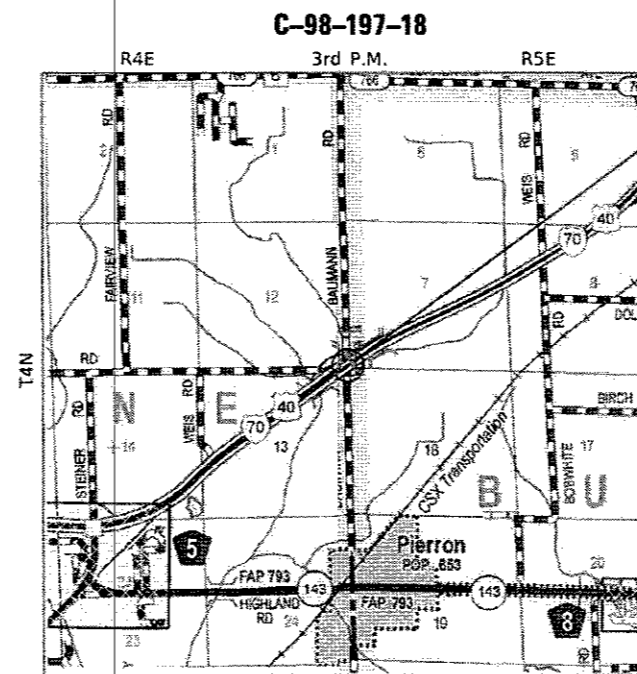


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: TIM PADGETT (618) 346-3325
SQUAD LEADER: PHIL COPPERNOLL (618) 346-3480

CONTRACT NO. 76L43



LOCATION MAP SCALE

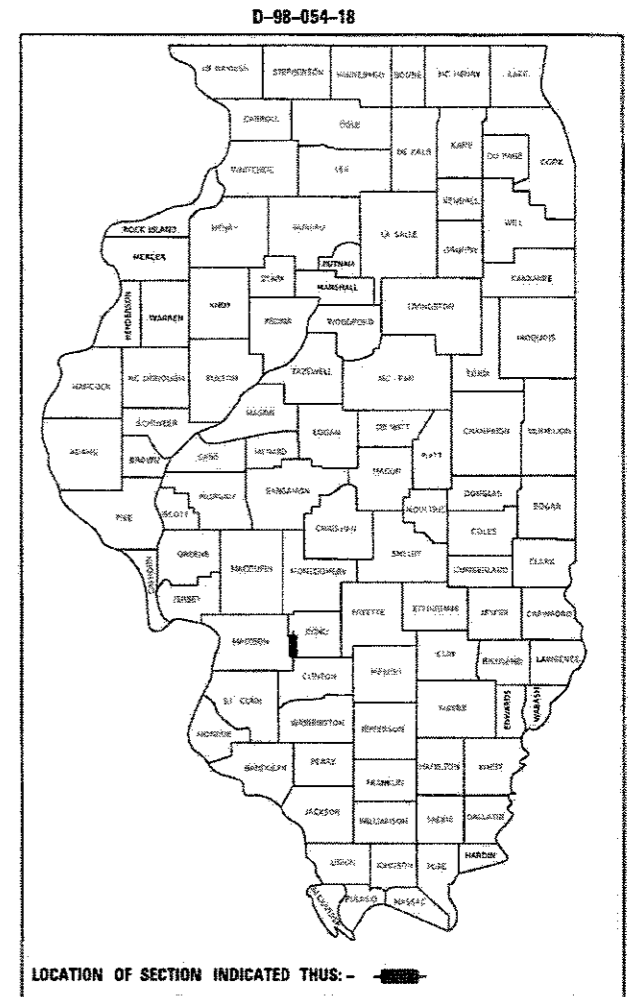
LOCATION MAP

GROSS LENGTH = 575.00 FT. = 0.109 MILE
NET LENGTH = 575.00 FT. = 0.109 MILE

**DECK REPLACEMENT
OVER FAI 70
STA. 16 + 00.00
S.N. 003-0042
SECTION BEGINS STA 12+50
SECTION ENDS STA 18+25**



Richard K. Allender III 1-22-18
Expires: 11/30/2019



LOCATION OF SECTION INDICATED THUS:

**BAUMANN ROAD
MINOR COLLECTOR
ADT: 550 (2015) 700 (2038)
SU: 3.0% (2015)
MU: 0.8% (2015)**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *Jan 26 2018*
Jeffrey Z. ... REGIONAL ENGINEER
Mar 23 2018
... ENGINEER OF DESIGN AND ENVIRONMENT
Mar 23 2018
... DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS**

GENERAL NOTES

1. ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS SHOWN IN THE PLANS.
2. THESE PLANS HAVE BEEN PREPARED USING STANDARD SYMBOLS AS INDICATED IN THESE PLANS, AND THEY SHALL TAKE PRECEDENCE OVER THOSE SHOWN ON STARNDARD 000001-06 IF THERE IS A CONFLICT.
3. THE CONTRACTOR SHALL USE CARE IN ALL REMOVAL ACTIVITIES NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
5. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

- * AMEREN ILLINOIS - ELECTRIC (AERIAL & BURIED)
- * DEPARTMENT OF CENTRAL MANAGEMENT SERVICES - COMMUNICATIONS (AERIAL & BURIED)
- * FRONTIER COMMUNICATIONS - COMMUNICATIONS (AERIAL & BURIED)
- * VILLAGE OF GRANTFORK - WATER & SANITARY SEWER (BURIED)
- * VILLAGE OF PIERRON - WATER & SANITARY SEWER (BURIED)
- * SOUTHWESTERN ELECTRIC COOPERATIVE, INC. - ELECTRIC (AERIAL & BURIED)

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *. NON- J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

6. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR I.T.S. EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 803.04 OF THE STANDARD SPECIFICATIONS.
7. ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON NAVD 88 DATUM.
8. THE ILLINOIS DEPARTMENT OF TRANSPORTATION STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITEWORK, TOOLS USE, ETC.), AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. PLEASE CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
9. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS/HER OPERATIONS.

10. EXISTING TREES 6" DIAMETER AND LARGER THAT ARE REMOVED SHALL BE REPLACED AT A 1:1 RATIO WITH THE TYPE AND SIZE SHOWN ON THE PLANS. AN ESTIMATED REMOVAL QUANTITY WAS USED TO CALCULATE THE REPLACEMENT QUANTITY. THE REPLACEMENT TREES SHALL BE LOCATED ON IDOT R.O.W. OUTSIDE THE CLEAR ZONE AS DIRECTED BY THE ENGINEER.
11. THE FOLLOWING RATES WERE USED IN CALCULATING QUANTITIES FOR THIS PROJECT:
 - AGGREGATE BASE COURSE, AND SHOULDERS: 2.05 TONS/CU YD
 - BITUMINOUS MATERIALS (PRIME COAT): 0.25 LB/SQ FT
 - BITUMINOUS MATERIALS (COVER AND SEAL COAT): 0.25 LBS/SQ FT
 - COVER COAT & SEAL COAT AGGREGATE: 23 LBS/SQ YD
 - RIPRAP: 1.50 TONS/CU YD
12. WHERE PROPOSED GUARDRAIL TIES INTO EXISTING GUARDRAIL, THE EXISTING GUARDRAIL SHALL BE FIELD DRILLED IF NECESSARY TO ALLOW FOR BOLTED CONNECTION TO NEW RAIL POST. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS.

COMMITMENTS

NONE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND COMMITMENTS
I-70 UNDER BAUMANN ROAD

SCALE: 100 SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	2
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS		FED. AID PROJECT		

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design firm
no. 184001036



USER NAME = \$OPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = 200x0.0000 'in / in.	DRAWN - GSI	REVISED
PLOT DATE = 2/1/2018	CHECKED - RKA	REVISED

CONSTRUCTION CODE
90% FED / 10% STATE
BRIDGE
0013
S.N. 003-0042

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25
20200100	EARTH EXCAVATION	CU YD	56	56
20400800	FURNISHED EXCAVATION	CU YD	251	251
* 25000200	SEEDING, CLASS 2	ACRE	0.25	0.25
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23	23
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23
* 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1083	1083
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	25	25
28000400	PERIMETER EROSION BARRIER	FOOT	592	592
28100205	STONE RIPRAP, CLASS A3	TON	12	12
28200200	FILTER FABRIC	SQ YD	28	28
35101400	AGGREGATE BASE COURSE, TYPE B	TON	30	30
40300200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.6	0.6

14
* SPECIALTY ITEM

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design firm
no. 184001036



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PLOT DATE = 3/23/2018	CHECKED - RKA	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES		
I-70 UNDER BAUMANN ROAD		
SCALE: NTS	SHEET 1 OF 4 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-IHB-2	*	46	3
* BOND, MADISON		CONTRACT NO. 76L43		
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				90% FED / 10% STATE	
				BRIDGE	
				0013	
				S.N. 003-0042	
40300400	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	TON	1.6	1.6	
40300500	COVER COAT AGGREGATE	TON	11	11	
40300600	SEAL COAT AGGREGATE	TON	6	6	
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	146	146	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	68	68	
50102400	CONCRETE REMOVAL	CU YD	5.4	5.4	
50104720	REMOVAL OF EXISTING CONCRETE DECK	EACH	1	1	
50200100	STRUCTURE EXCAVATION	CU YD	33.7	33.7	
50300225	CONCRETE STRUCTURES	CU YD	12.3	12.3	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	287.1	287.1	
50300260	BRIDGE DECK GROOVING	SQ YD	791	791	
50300300	PROTECTIVE COAT	SQ YD	1034	1034	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	4780	4780	
50500505	STUD SHEAR CONNECTORS	EACH	2280	2280	

14

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Design firm
no. 184001036



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PLOT DATE = 1/23/2018	CHECKED - RKA	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES
I-70 UNDER BAUMANN ROAD

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	4
* BOND, MADISON			CONTRACT NO. 76L43	

ILLINOIS FED. AID PROJECT

CONSTRUCTION CODE
90% FED / 10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0013 S.N. 003-0042
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	66290	66290
51500100	NAME PLATES	EACH	2	2
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	20	20
52100510	ANCHOR BOLTS, 3/4"	EACH	40	40
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	29.1	29.1
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	212.5	212.5
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2
63200310	GUARDRAIL REMOVAL	FOOT	597	597
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	5	5
* 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	8	8

14

* SPECIALTY ITEM

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	CHECKED - RKA	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
I-70 UNDER BAUMANN ROAD			
SCALE: NTS	SHEET 3	OF 4 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	5
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				90% FED / 10% STATE	BRIDGE
				0013	
				S.N. 003-0042	
* 80300100	LOCATING UNDERGROUND CABLE	FOOT	200		200
* A2006916	TREE, QUERCUS PALUSTRIS (PIN OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	2		2
* A2007616	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2" CALIPER, BALLED AND BURLAPPED	EACH	2		2
* D2001538	EVERGREEN, JUNIPERUS VIRGINIANA (EASTERN RED CEDAR), 4' HEIGHT, BALLED AND BURLAPPED	EACH	2		2
X5017307	PROTECTIVE SHIELD, SPECIAL	SQ YD	762		762
X6060505	CONCRETE CURB (SPECIAL)	FOOT	60		60
X6650208	WOVEN WIRE FENCE REMOVAL AND REPLACEMENT	FOOT	240		240
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	180		180
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	20		20
∅ Z0076600	TRAINEES	HR	500		500
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HR	500		500
Z0018004	DRAINAGE SCUPPERS, DS-12	EACH	4		4

* SPECIALTY ITEM
∅ 0042

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design firm
no. 184001036

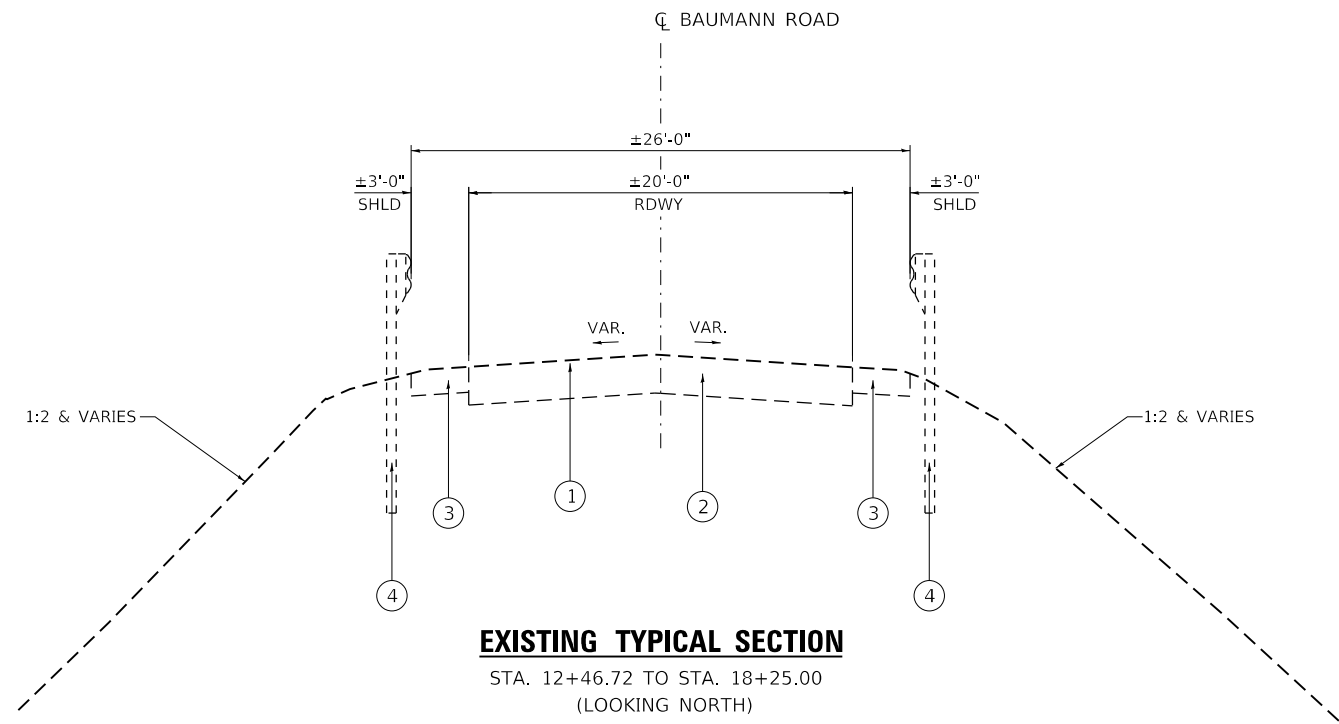


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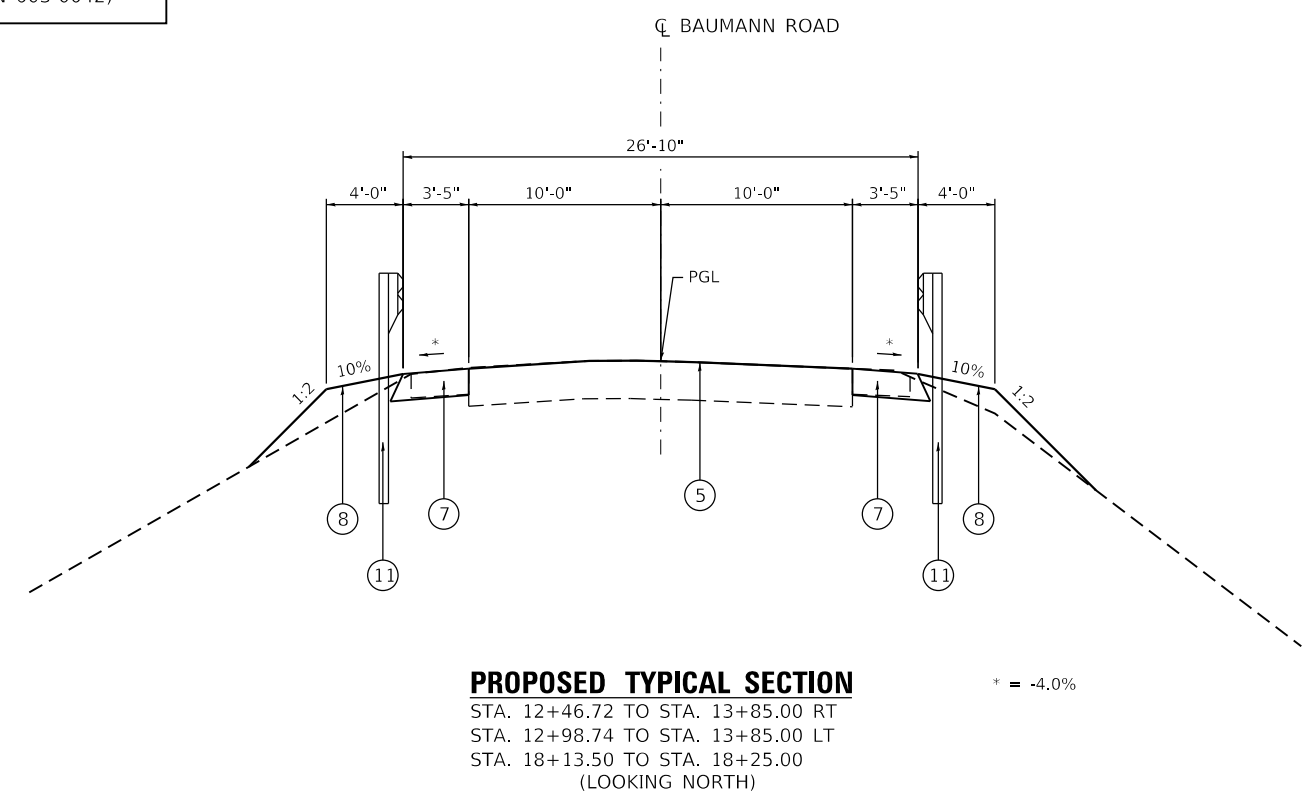
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
I-70 UNDER BAUMANN ROAD			
SCALE: NTS	SHEET 4	OF 4 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	6
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				



BRIDGE OMISSION:
 STA. 14+67.17 TO STA. 17+35.83 (SN 003-0042)



LEGEND

- ① EX OIL & CHIP
- ② EX AGGREGATE BASE COURSE
- ③ EX AGGREGATE SHOULDER
- ④ EX GUARDRAIL
- ⑤ PR A-3 SURFACE
- ⑥ PR AGGREGATE BASE COURSE, TYPE B
- ⑦ PR AGGREGATE SHOULDERS, TYPE B (6")
- ⑧ PR EARTH SHOULDERS
- ⑨ PR CONCRETE CURB (SPECIAL)
- ⑩ PR CLASS D PATCHES, TYPE IV, 6 INCH
- ⑪ PR GUARDRAIL

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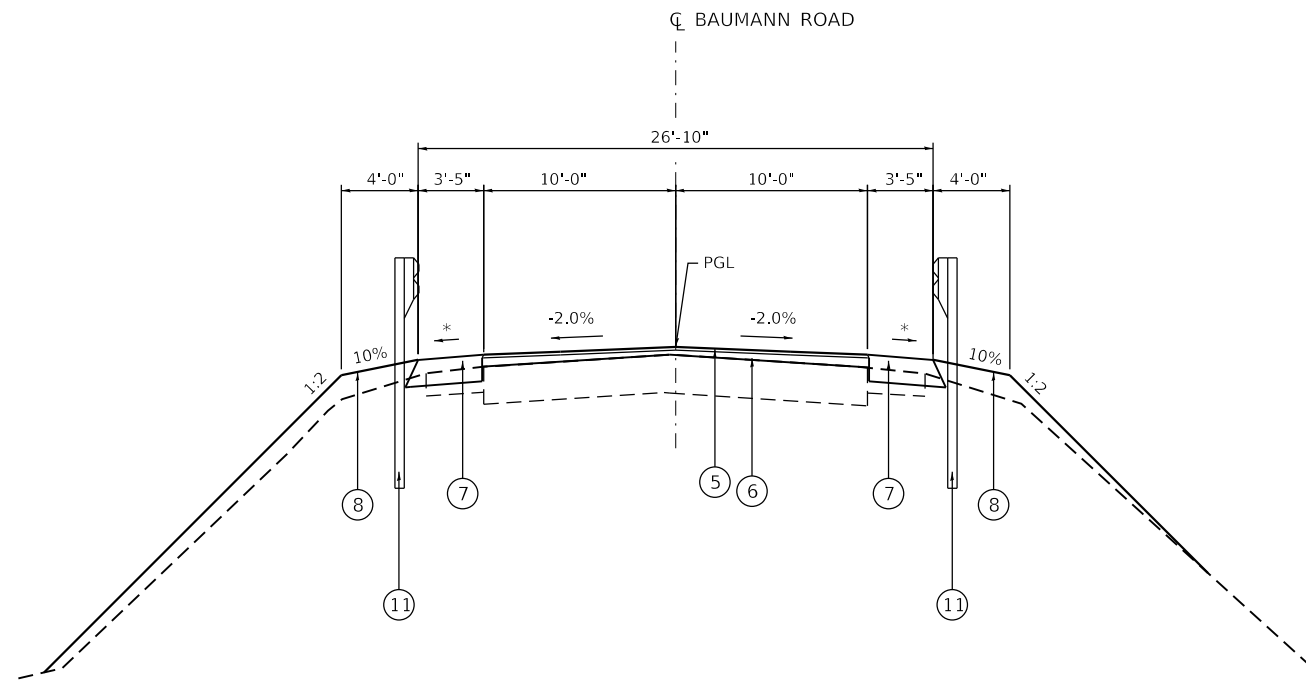


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	CHECKED - SDS	REVISED
PLOT SCALE = \$SCALES	DRAWN - GSI	REVISED
PLOT DATE = 1/23/2018	CHECKED - RKA	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS	
I-70 UNDER BAUMANN ROAD	
SCALE: 1"=5'	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	7
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION

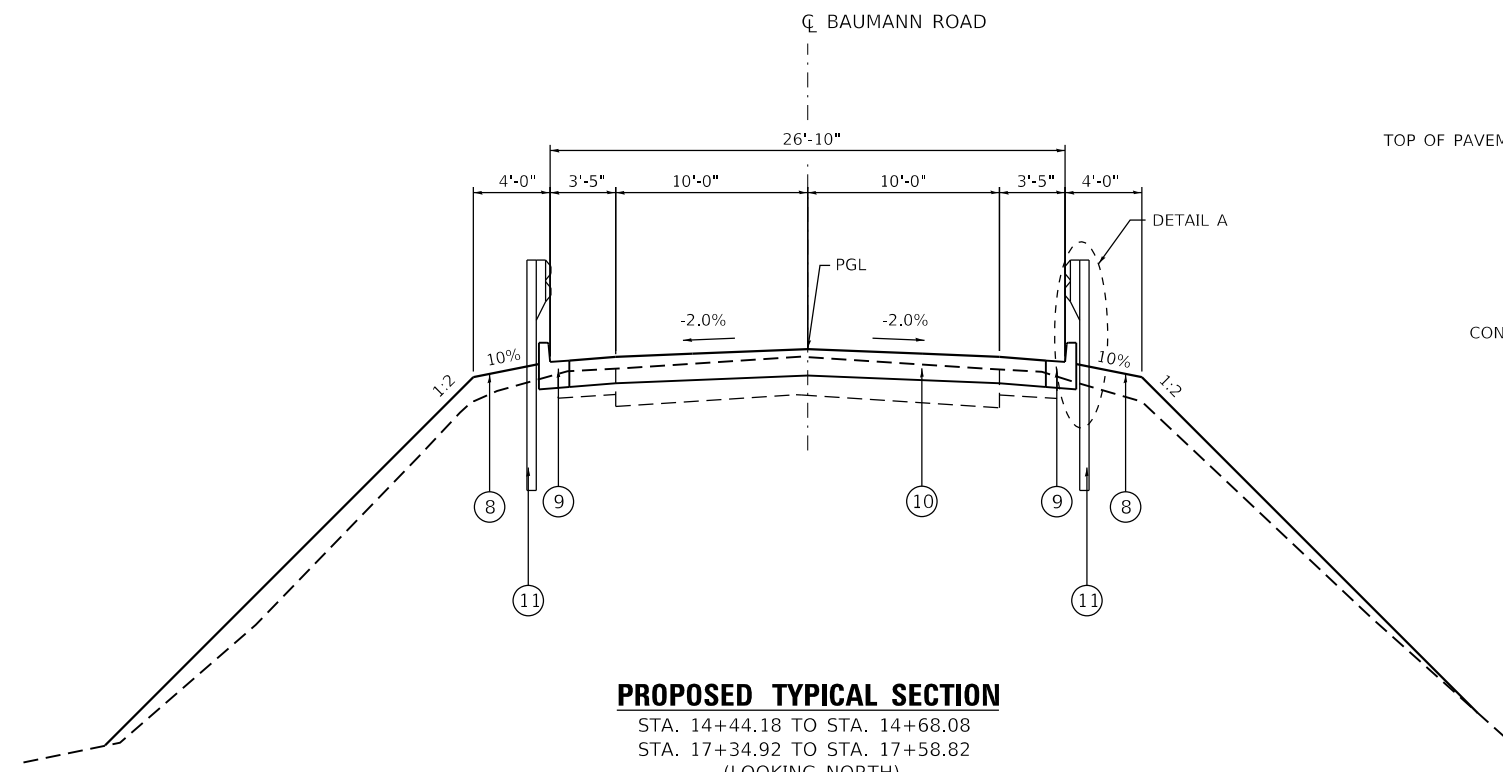
STA. 13+85.00 TO STA. 14+44.18
 STA. 17+58.82 TO STA. 18+13.50
 (LOOKING NORTH)

* = -4.0%

BRIDGE OMISSION:
 STA. 14+67.17 TO STA. 17+35.83 (SN 003-0042)

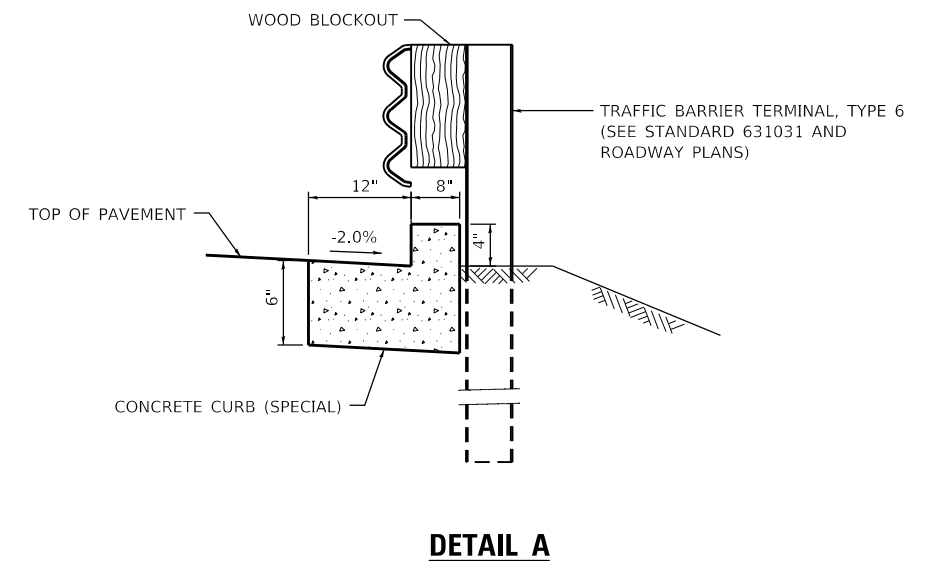
LEGEND

- ① EX OIL & CHIP
- ② EX AGGREGATE BASE COURSE
- ③ EX AGGREGATE SHOULDER
- ④ EX GUARDRAIL
- ⑤ PR A-3 SURFACE
- ⑥ PR AGGREGATE BASE COURSE, TYPE B
- ⑦ PR AGGREGATE SHOULDERS, TYPE B (6")
- ⑧ PR EARTH SHOULDERS
- ⑨ PR CONCRETE CURB (SPECIAL)
- ⑩ PR CLASS D PATCHES, TYPE IV, 6 INCH
- ⑪ PR GUARDRAIL



PROPOSED TYPICAL SECTION

STA. 14+44.18 TO STA. 14+68.08
 STA. 17+34.92 TO STA. 17+58.82
 (LOOKING NORTH)



DETAIL A

MODEL: D:\m\h\ design firm no. 184001036
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USER NAME = \$OPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = \$SCALE\$	DRAWN - GSI	REVISED
PLOT DATE = 1/23/2018	CHECKED - RKA	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
 I-70 UNDER BAUMANN ROAD**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	8
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				

LOCATION	20200100	FOR INFORMATIONAL ONLY		20400800
	EARTH EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) (EXC. x 0.75)	EMBANKMENT (FILL)	EARTHWORK BALANCE WASTE(+) AND SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 12+50.00 TO STA. 14+67.17	37	28	77	-49
STA. 17+35.83 TO STA. 18+25.00	19	11	212	-202
TOTAL	56	39	289	-251

EARTH EXCAVATION SHRINKAGE FACTOR = 25%

20100500 TREE REMOVAL, ACRES

STATIONS	ACRE
BAUMANN ROAD	
LT 17+31.00 TO LT 18+24.00	0.08
RT 17+67.00 TO RT 18+21.00	0.01
TOTAL	0.25

25000200 SEEDING, CLASS 2

STATIONS	ACRE
BAUMANN ROAD	
RT 12+50.00 TO RT 14+74.00	0.08
RT 17+45.00 TO RT 18+25.00	0.04
LT 13+00.00 TO LT 14+55.00	0.03
LT 17+31.00 TO LT 18+25.00	0.10
TOTAL	0.25

25000400 NITROGEN FERTILIZER NUTRIENT

STATIONS	POUND
BAUMANN ROAD	
RT 12+50.00 TO RT 14+74.00	7
RT 17+45.00 TO RT 18+25.00	4
LT 13+00.00 TO LT 14+55.00	3
LT 17+31.00 TO LT 18+25.00	9
TOTAL	23

25000500 PHOSPHORUS FERTILIZER NUTRIENT

STATIONS	POUND
BAUMANN ROAD	
RT 12+50.00 TO RT 14+74.00	7
RT 17+45.00 TO RT 18+25.00	4
LT 13+00.00 TO LT 14+55.00	3
LT 17+31.00 TO LT 18+25.00	9
TOTAL	23

25000600 POTASSIUM FERTILIZER NUTRIENT

STATIONS	POUND
BAUMANN ROAD	
RT 12+50.00 TO RT 14+74.00	7
RT 17+45.00 TO RT 18+25.00	4
LT 13+00.00 TO LT 14+55.00	3
LT 17+31.00 TO LT 18+25.00	9
TOTAL	23

25100635 HEAVY DUTY EROSION CONTROL BLANKET

STATIONS	SQ YD
BAUMANN ROAD	
RT 12+50.00 TO RT 14+74.00	350
RT 17+45.00 TO RT 18+25.00	169
LT 13+00.00 TO LT 14+55.00	120
LT 17+31.00 TO LT 18+25.00	444
TOTAL	1,083

28000250 TEMPORARY EROSION CONTROL SEEDING

STATIONS	POUND
BAUMANN ROAD	
RT 12+50.00 TO RT 14+74.00	8
RT 17+45.00 TO RT 18+25.00	4
LT 13+00.00 TO LT 14+55.00	3
LT 17+31.00 TO LT 18+25.00	10
TOTAL	25

28000400 PERIMETER EROSION BARRIER

STATIONS	FOOT
BAUMANN ROAD	
LT 13+00.00 TO LT 14+43.70	144
LT 17+30.00 TO LT 18+25.00	123
RT 13+00.00 TO RT 14+93.70	194
RT 17+40.00 TO RT 18+25.00	131
TOTAL	592

28100205 STONE RIPRAP, CLASS A3

STATIONS	TON
BAUMANN ROAD	
LT 14+33.45	3
RT 14+51.91	3
LT 17+51.10	3
RT 17+69.55	3
TOTAL	12

28200200 FILTER FABRIC

STATIONS	SQ YD
BAUMANN ROAD	
LT 14+33.45	7
RT 14+51.91	7
LT 17+51.10	7
RT 17+69.55	7
TOTAL	28

35101400 AGGREGATE BASE COURSE, TYPE B

STATIONS	TON
BAUMANN ROAD	
CL 13+85.00 TO CL 14+44.20	16
CL 17+58.80 TO CL 18+13.50	14
TOTAL	30

40300200 BITUMINOUS MATERIALS (PRIME COAT)

STATIONS	TON
BAUMANN ROAD	
CL 13+00.00 TO CL 14+44.20	0.40
CL 17+58.80 TO CL 18+25.00	0.18
TOTAL	0.6

40300400 BITUMINOUS MATERIALS (COVER AND SEAL COATS)

STATIONS	TON
BAUMANN ROAD	
CL 13+00.00 TO CL 14+44.20	1.1
CL 17+58.80 TO CL 18+25.00	0.5
3 APPLICATIONS	
TOTAL	1.6

40300500 COVER COAT AGGREGATE

STATIONS	TON
BAUMANN ROAD	
CL 13+00.00 TO CL 14+44.20	7.4
CL 17+58.80 TO CL 18+25.00	3.4
2 APPLICATIONS	
TOTAL	11

40300600 SEAL COAT AGGREGATE

STATIONS	TON
BAUMANN ROAD	
CL 13+00.00 TO CL 14+44.20	3.7
CL 17+58.80 TO CL 18+25.00	1.7
TOTAL	6

44201723 CLASS D PATCHES, TYPE IV, 6 INCH

STATIONS	SQ YD
BAUMANN ROAD	
CL 14+44.20 TO CL 14+68.10	73
CL 17+34.90 TO CL 17+58.80	73
TOTAL	146

48101200 AGGREGATE SHOULDERS, TYPE B

STATIONS	TON
BAUMANN ROAD	
RT 12+50.00 TO 14+52.00 RT	29
RT 17+66.80 TO 18+25.00 RT	9
LT 13+00.00 TO 14+36.14 LT	19
LT 17+51.00 TO 18+25.00 LT	11
TOTAL	68

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PLOT DATE = 1/23/2018	CHECKED - RKA	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
I-70 UNDER BAUMANN ROAD

SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	9
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS		FED. AID PROJECT		

63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS					
STATIONS				FOOT	
BAUMANN ROAD					
LT	13+88.00	TO	LT	14+13.00	
				25	
RT	13+19.00	TO	RT	14+31.50	
				112.5	
LT	17+71.50	TO	LT	18+21.50	
				50	
RT	17+89.95	TO	RT	18+14.95	
				25	
SEE GENERAL NOTE #12				TOTAL	212.5

78200005 GUARDRAIL REFLECTORS, TYPE A					
STATIONS				EACH	
BAUMANN ROAD					
RT	12+69.00	TO	RT	14+68.41	
				2	
RT	17+53.05	TO	RT	18+14.95	
				1	
LT	13+38.00	TO	LT	14+49.95	
				1	
LT	17+34.60	TO	LT	18+21.50	
				1	
				TOTAL	5

X6060505 CONCRETE CURB (SPECIAL)					
STATIONS				FOOT	
BAUMANN ROAD					
LT	14+34.95	TO	LT	14+49.95	
				15	
RT	14+53.41	TO	RT	14+68.41	
				15	
RT	17+53.05	TO	RT	17+68.05	
				15	
LT	17+34.60	TO	LT	17+49.60	
				15	
				TOTAL	60

63100085 TRAFFIC BARRIER TERMINAL, TYPE 6					
STATIONS				EACH	
BAUMANN ROAD					
LT	14+13.00	TO	LT	14+52.40	
				1	
RT	14+31.50	TO	RT	14+70.90	
				1	
LT	14+32.10	TO	LT	14+71.50	
				1	
RT	17+50.50	TO	RT	17+89.90	
				1	
				TOTAL	4

78200010 BARRIER WALL REFLECTORS, TYPE B					
STATIONS				EACH	
BAUMANN ROAD					
RT	14+68.41	TO	RT	17+53.05	
				4	
LT	14+49.95	TO	LT	17+34.60	
				4	
				TOTAL	8

X6650208 WOVEN WIRE FENCE REMOVAL AND REPLACEMENT					
STATIONS				FOOT	
BAUMANN ROAD					
LT	14+49.50			130	
LT	17+34.25			30	
RT	14+68.00			40	
RT	17+53.25			40	
				TOTAL	240

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT					
STATIONS				EACH	
BAUMANN ROAD					
LT	12+69.00	TO	LT	13+19.00	
				1	
RT	13+38.00	TO	RT	13+88.00	
				1	
				TOTAL	2

80300100 LOCATING UNDERGROUND CABLE					
STATIONS				FOOT	
BAUMANN ROAD					
	12+50.00	TO		18+25.00	
				200	
				TOTAL	200

X7010216 TRAFFIC CONTROL AND PROTECTION, (SPECIAL)					
STATIONS				L SUM	
BAUMANN ROAD					
				TOTAL	1

63200310 GUARDRAIL REMOVAL					
STATIONS				FOOT	
BAUMANN ROAD					
LT	12+43.90	TO	LT	14+59.80	
				216	
LT	17+26.50	TO	LT	18+21.50	
				95	
RT	12+61.90	TO	RT	14+76.40	
				215	
RT	17+43.20	TO	RT	18+14.95	
				72	
				TOTAL	597

A2006916 TREE, QUERCUS PALUSTRIS (PIN OAK), 2" CALIPER, BALLED AND BURLAPPED					
STATIONS				EACH	
BAUMANN ROAD					
RT	12+00.00	TO	RT	14+50.00	
				1	
LT	12+00.00	TO	LT	14+50.00	
				1	
SEE GENERAL NOTE #10				TOTAL	2

X7015005 CHANGEABLE MESSAGE SIGN					
STATIONS				CAL DAY	
BAUMANN ROAD					
I-70 WB APPROACH BAUMANN ROAD				90	
I-70 EB APPROACH BAUMANN ROAD				90	
				TOTAL	180

67000400 ENGINEER'S FIELD OFFICE, TYPE A					
STATIONS				CAL MO	
BAUMANN ROAD					
				TOTAL	6

A2007616 TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2" CALIPER, BALLED AND BURLAPPED					
STATIONS				EACH	
BAUMANN ROAD					
RT	12+00.00	TO	RT	14+50.00	
				1	
LT	12+00.00	TO	LT	14+50.00	
				1	
SEE GENERAL NOTE #10				TOTAL	2

Z0013798 CONSTRUCTION LAYOUT					
STATIONS				L SUM	
BAUMANN ROAD					
				TOTAL	1

67100100 MOBILIZATION					
STATIONS				L SUM	
BAUMANN ROAD					
				TOTAL	1

D2001538 EVERGREEN, JUNIPERUS VIRGINIANA (EASTERN RED CEDAR), 4' HEIGHT, BALLED AND BURLAPPED					
STATIONS				EACH	
BAUMANN ROAD					
RT	12+00.00	TO	RT	14+50.00	
				1	
LT	12+00.00	TO	LT	14+50.00	
				1	
SEE GENERAL NOTE #10				TOTAL	2

72501000 TERMINAL MARKER - DIRECT APPLIED					
STATIONS				EACH	
BAUMANN ROAD					
RT	12+69.00			1	
LT	13+38.00			1	
				TOTAL	2

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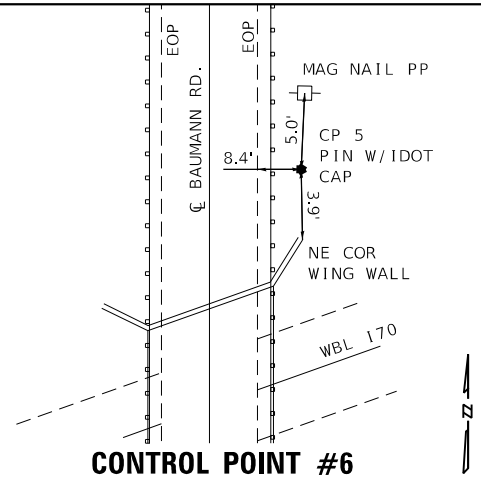
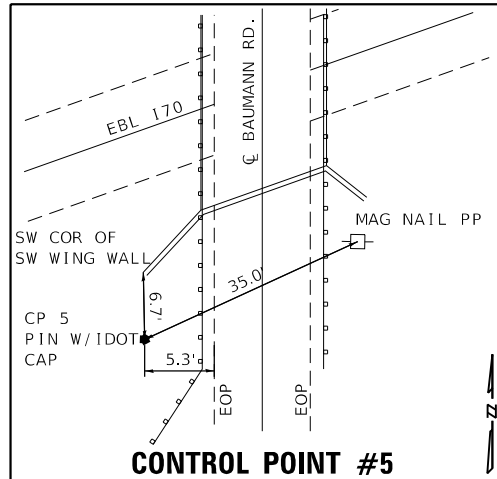
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
I-70 UNDER BAUMANN ROAD**

SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	10
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				

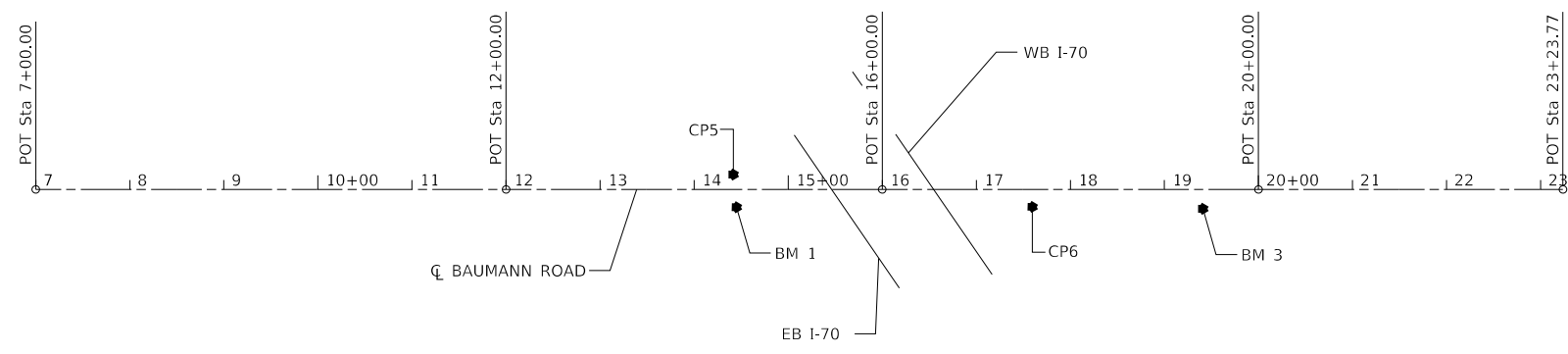


BM 1 : SET RR SPIKE IN WEST SIDE OF POWER POLE (APPROX. 8' EAST OF E.O.P. OF BAUMANN RD. AND 25' SOUTH OF THE SOUTH END OF SN 003-0042)
STA 14+45.08, 18.84 RT NAVD 88 = 538.480

BENCH MARK : BM1

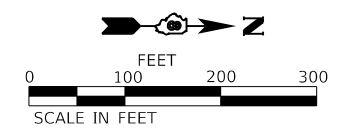
BM 3: SET RR SPIKE IN WEST SIDE OF POWER POLE (APPROX. 10' EAST OF E.O.P. OF BAUMANN RD. AND 205' NORTH OF THE NORTH END OF SN 003-0042)
STA 19+40.96, 20.48 RT NAVD 88 = 534.561

BENCH MARK : BM3

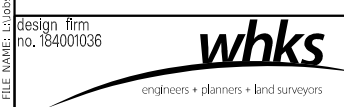


ALIGNMENT COORDINATES - CL BAUMANN ROAD			
POINT	STATION	N	E
CL005	7+00.00	24,147.1010	31,663.8680
CL001	12+00.00	24,647.0490	31,656.6760
CL002	16+00.00	25,047.0090	31,650.9230
CL003	20+00.00	25,446.9660	31,645.1700
CL004	23+23.77	25,770.7010	31,640.5140

CONTROL POINT COORDINATES				
CONTROL POINTS	STATION	OFFSET	N	E
CP5	14+41.58	15.88' LT	24,888.3790	31,637.3260
CP6	17+59.60	18.48' RT	25,206.8520	31,667.1080



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

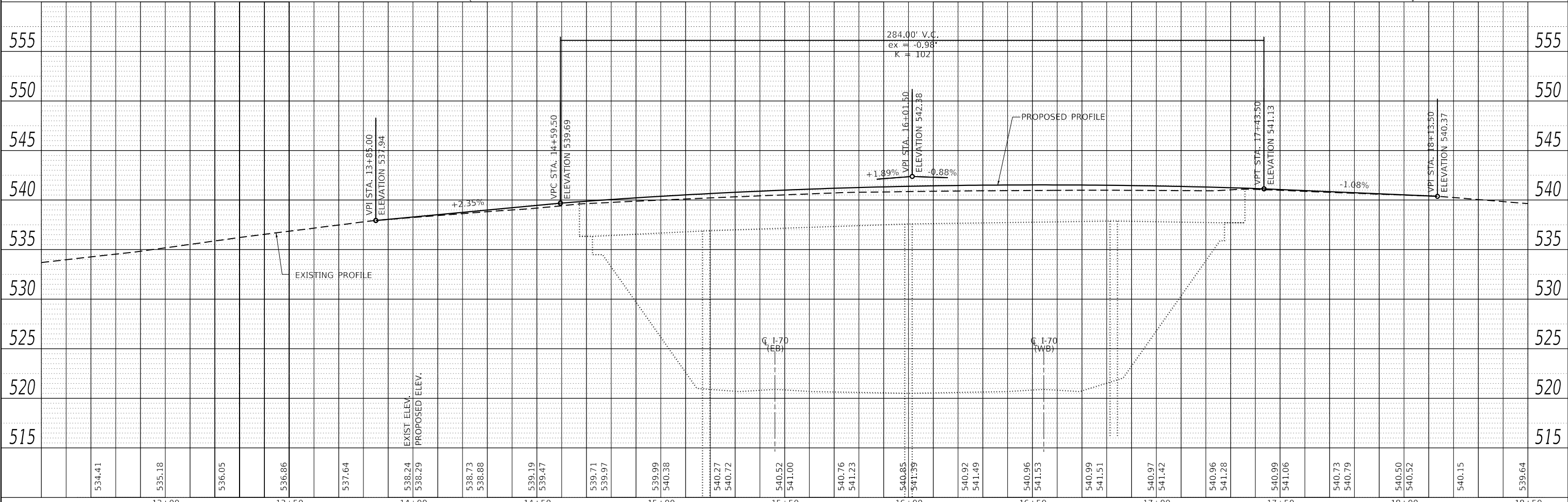
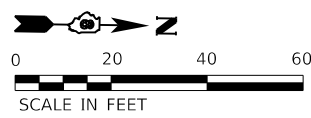
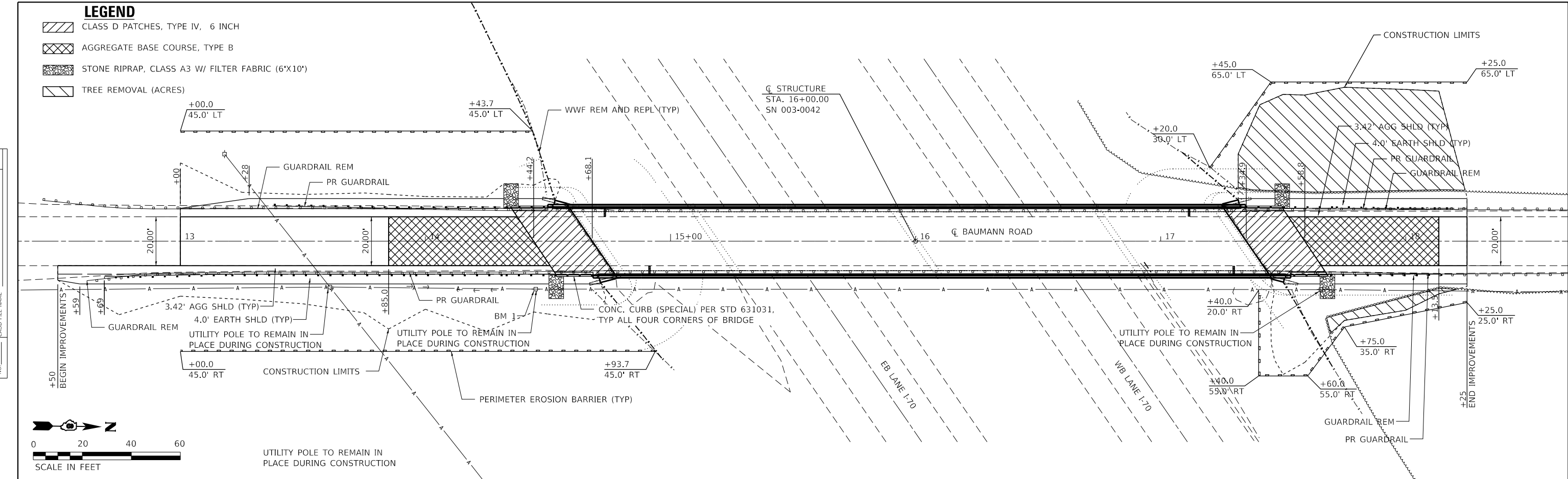
**ALIGNMENT, TIES, AND BENCHMARKS
I-70 UNDER BAUMANN ROAD**

SCALE: 100 SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	11
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				

PLAN	SURVIVED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	NO.	
	FILE NAME	

PROFILE	SURVIVED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	NO.	
	NOTATION	



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 no. 184001036
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 engineers + planners + land surveyors

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
 I-70 UNDER BAUMANN ROAD**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	12
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

TYPE III BARRICADES AND R11-2-4830 SIGNS SHALL BE POSITIONED AS SHOWN IN "ROAD CLOSURE TO ALL TRAFFIC" DETAIL ON HIGHWAY STANDARD BLR 21.

TYPE A LOW INTENSITY FLASHING LIGHTS SHALL BE USED ON EACH APPROACH IN ADVANCE OF THE WORK AREA DURING HOURS OF DARKNESS. TWO LIGHTS SHALL BE INSTALLED ABOVE EACH TYPE III BARRICADE AND ONE LIGHT ABOVE THE FIRST ADVANCE WARNING SIGN.

ALL WARNING SIGNS SHALL HAVE MINIMUM DIMENSIONS OF 48 X 48 AND HAVE A BLACK LEGEND ON AN ORANGE REFLECTORIZED BACKGROUND.

WHEN FLOURESCENT SIGNS ARE USED, ORANGE FLAGS ARE NOT REQUIRED.

LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS

POCAHONTAS, IL

600N

500E (POKEY RD)

BOND COUNTY

MADISON COUNTY

BAUMANN RD (CO. LINE)

200E

1200N (POCAHONTAS RD)

FAIRVIEW RD

LANDOLT RD

WEIS RD

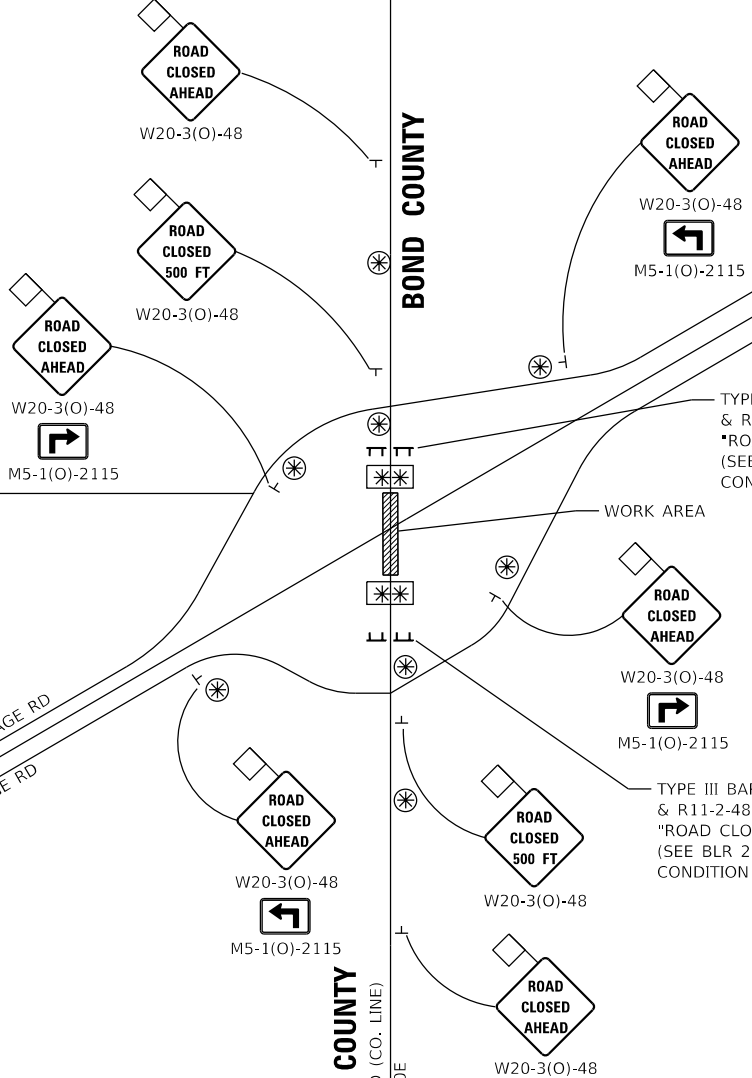
N. FRONTAGE RD
I-70
S. FRONTAGE RD

STEINER RD

US 40

IL 143

IL 143



TYPE III BARRICADES & R11-2-4830 "ROAD CLOSED" SIGNS (SEE BLR 21-9 - CONDITION 1)

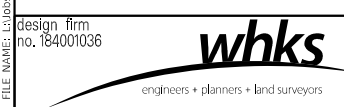
WORK AREA

TYPE III BARRICADES & R11-2-4830 "ROAD CLOSED" SIGNS (SEE BLR 21-9 - CONDITION 1)

- EXISTING TYPE III BARRICADES, SIGNS, AND CONCRETE BIN BLOCKS TO BE REMOVED AND DELIVERED TO IDOT DISTRICT 8 OPERATIONS MAINTENANCE YARD BY CONTRACTOR. SEE SPECIAL PROVISIONS.
- EXISTING WARNING SIGNS TO BE REMOVED BY IDOT DISTRICT 8 SIGN SHOP. SEE SPECIAL PROVISIONS.

ROAD CLOSED FOR STRUCTURE (SN 003-0042) BRIDGE DECK REPLACEMENT.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

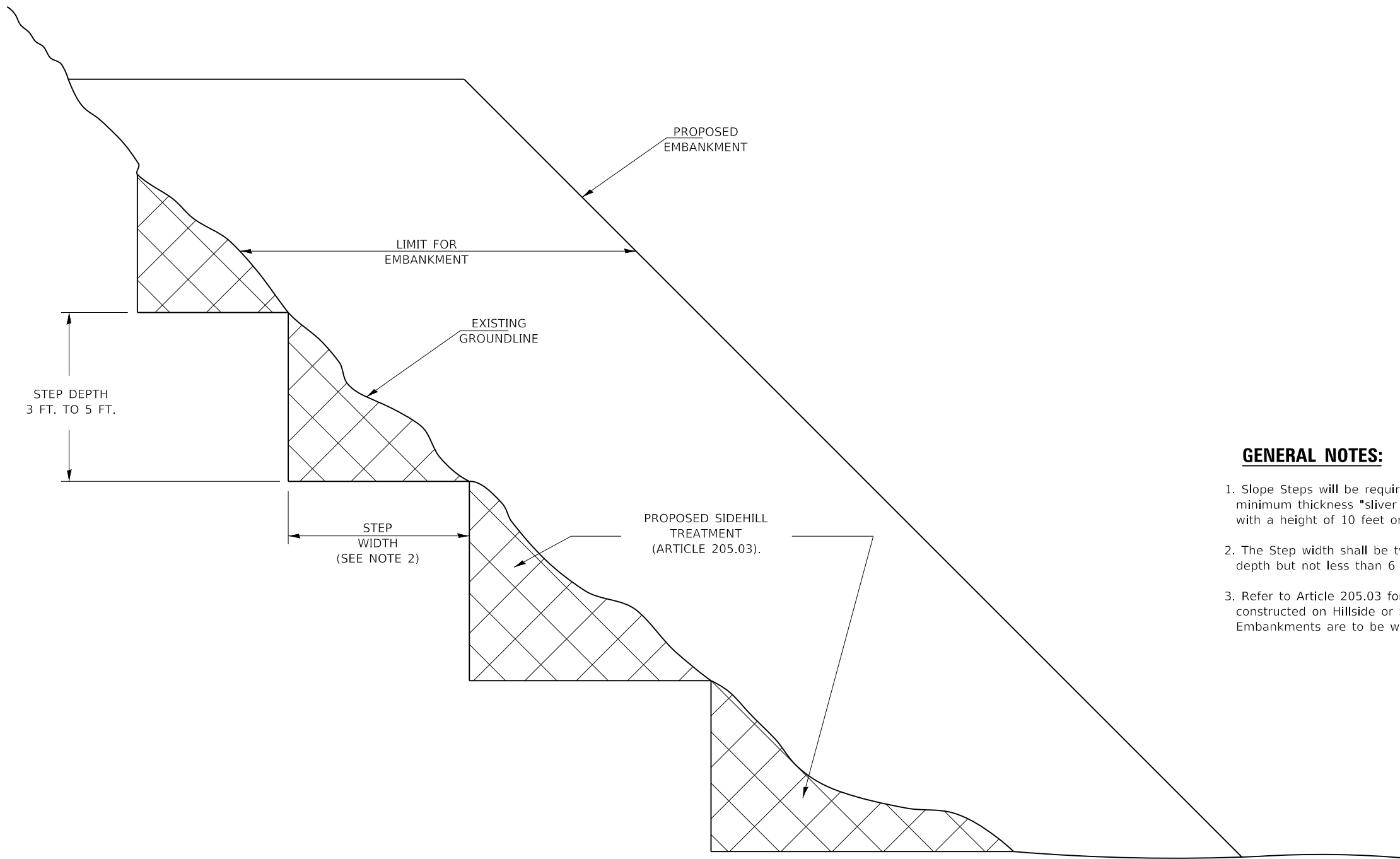
**TRAFFIC CONTROL PLAN
I-70 UNDER BAUMANN ROAD**

SCALE: 50 SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	13
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				

SLOPE STEPS DETAIL

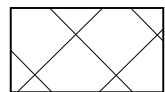
TYPICAL CROSS-SECTION EMBANKMENT
CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "sliver fills" and on a fills with a height of 10 feet or greater.
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

REPLACEMENT MATERIAL:



STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFACATION).

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

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design firm
no. 184001036



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PLOT DATE = 1/23/2018	CHECKED - RKA	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SLOPE STEPS DETAIL
I-70 UNDER BAUMANN ROAD**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	14
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS		FED. AID PROJECT		

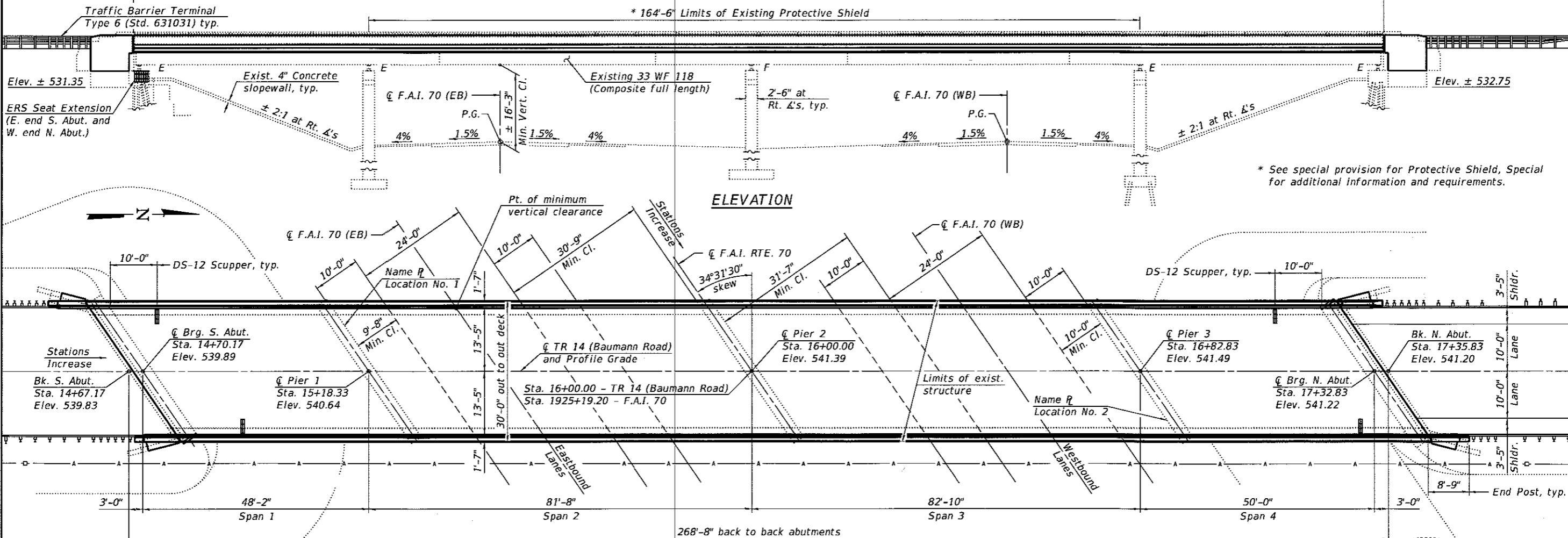
Bench Mark: Set RR Spike in west side of Power Pole (approx. 8' east of E.O.P. of Baumann Rd. and 25' south of south end of SN 003-0042): Elev. 538.480

Existing Structure: SN 003-0042 was built in 1965 as F.A.I. Rte 70, Section 3-1HB. The existing structure is a four-span continuous wide flange beam structure supporting a RC slab on multi-column piers and spill thru abutments. The abutments and Pier 3 are on steel piles and Piers 1 and 2 are on spread footings. The structure has an overall length of 268'-8" back to back of abutments and a width of 30'-0" out to out of deck. Road to be closed during construction.

Salvage: Existing protective shield.

* 266'-10" Limits of Protective Shield, Special

* 164'-6" Limits of Existing Protective Shield



* See special provision for Protective Shield, Special for additional information and requirements.

SCOPE OF WORK

1. Remove and replace existing deck with 8" reinforced concrete slab and F-shape parapets.
2. Make existing beams composite full-length.
3. Reconfigure abutment wingwalls for parallel end posts.
4. Replace existing steel rocker bearings with new elastomeric bearing assemblies at each abutment, Pier 1 and Pier 3.
5. Replace broken or missing high-strength bolts at the splices.
6. Modify bearing seat widths to meet the Department's Seismic Design Strategy, Level 2 Redundancy requirements (ERS), at the east end of the South Abutment and the west end of the North Abutment.

LOADING HS20-44 (Superstructure)
No allowance for future wearing surface.

LOADING HS15-44 (Substructure)

DESIGN SPECIFICATIONS (New Const.)
2002 AASHTO Standard Specification for Highway Bridges
1995 FHWA Seismic Retrofitting Manual for Highway Bridges

DESIGN STRESSES

FIELD UNITS (New Construction)

$f'_c = 4,000$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36, Bearings)
 $f_y = 50,000$ psi (M270 Grade 50, Seat Extensions)

FIELD UNITS (Exist. Construction)

$f'_c = 3,500$ psi (Substructure)
 $f_y = 40,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (Structural Steel)

SEISMIC DATA

Seismic Performance Category (SPC) = B (Seismic Retrofitting Manual)
 Horizontal Bedrock Acceleration Coefficient (A) = 0.090g
 Site Coefficient (S) = 1.0

STATION 16+00.00
 RE-BUILT 2018 BY
 STATE OF ILLINOIS
 F.A.I. RT. 70 SEC. 3-1HB-2
 LOADING HS20-44
 STRUCTURE NO. 003-0042

NAME PLATE
See Std. 515001

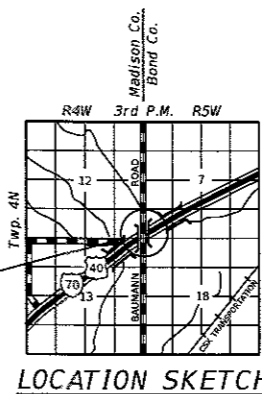
New Name Plates shall be located next to existing Name Plates and attached with a post-installed anchorage system. The existing Name Plates shall be cleaned in place. Post-installed anchorage system and method of cleaning is subject to approval by the Engineer. Cost included with Name Plates.

APPROVED
For Structural Adequacy Only
[Signature]
Engineer of Bridges & Structures

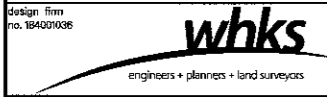


[Signature]
Expires: 11/30/2018

GENERAL PLAN AND ELEVATION
TR 14 (BAUMANN ROAD)
F.A.I. RTE. 70 - SEC. 3-1HB-2
BOND AND MADISON COUNTY
STATION 16+00.00
STRUCTURE NO. 003-0042



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 DESIGNER: SBC
 CHECKER: SDS
 DRAWN: DLH
 CHECKED: SBC
 DATE: 1/23/2018



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PLLOT SCALE - 0.2" = 1'	DRAWN - DLH	REVISIONS
PLLOT DATE - 1/23/2018	CHECKED - SBC	REVISIONS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

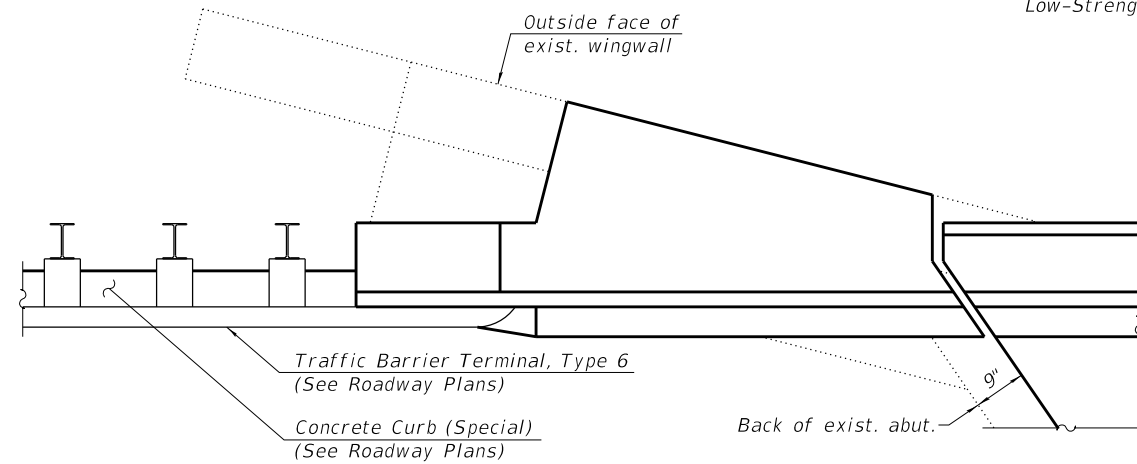
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 SHEET NO. 1 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2		48	15
* BOND AND MADISON			CONTRACT NO. 78143	
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 3/4" Ø, holes 13/16" Ø, unless otherwise noted.
- No field welding is permitted except as specified in the contract documents.
- The Contractor shall test the existing welds by non-destructive methods within 2 ft. of the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant (PT), magnetic particle (MT), or other approved testing method shall be performed by qualified personnel approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for disposition. The cost of testing is included in Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid for according to Article 109.04 of the Standard Specifications.
- Reinforcement bars designated (E) shall be epoxy coated.
- Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding 1/4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.
- The Inorganic zinc rich primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the Acrylic finish coat shall be Gray, Munsell No. 5B 7/1.
- The Contractor is advised that there is beam uplift at the abutments during the deck pour. Abutment side retainers have been detailed with keeper bars. See sheet 12 of 18 for additional details.
- The top flanges of the beams shall be surveyed at the intervals shown on sheet 3 of 18 after removal of the existing concrete deck. These elevations shall be submitted to the Engineer for review to verify design assumptions, deflections, fillet heights, and fillet reinforcement locations prior to setting forms and pouring the new concrete deck.



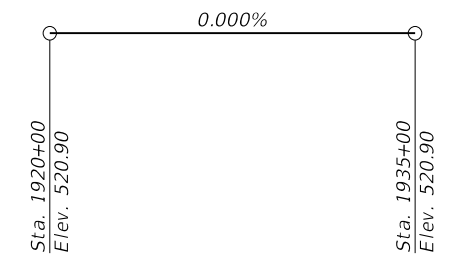
TRAFFIC TERMINAL PLAN
(Typical all corners)

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Concrete Removal	Cu. Yd.	-	5.4	5.4
Removal of Existing Concrete Deck	Each	1	-	1
Structure Excavation	Cu. Yd.	-	33.7	33.7
Concrete Structures	Cu. Yd.	-	12.3	12.3
Concrete Superstructure	Cu. Yd.	287.1	-	287.1
Bridge Deck Grooving	Sq. Yd.	791	-	791
Protective Coat	Sq. Yd.	1034	-	1034
Furnishing and Erecting Structural Steel	Pound	3880	900	4780
Stud Shear Connectors	Each	2280	-	2280
Reinforcement Bars, Epoxy Coated	Pound	64600	1690	66290
Name Plates	Each	-	2	2
Elastomeric Bearing Assembly, Type I	Each	20	-	20
Anchor Bolts, 3/4"	Each	40	-	40
Controlled Low-Strength Material	Cu. Yd.	-	29.1	29.1
Protective Shield, Special	Sq. Yd.	762	-	762
Jack and Remove Existing Bearings	Each	20	-	20
Drainage Scuppers, DS-12	Each	4	-	4

INDEX OF SHEETS

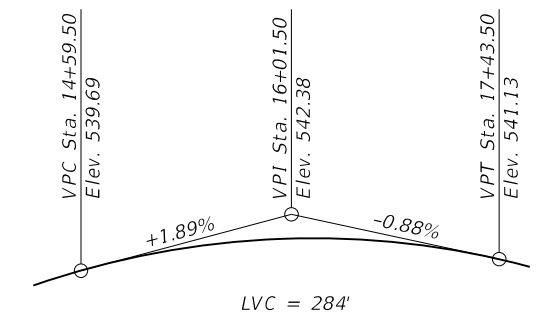
- General Plan and Elevation
- General Data
- 4. Top of Deck Elevations
- 7. Superstructure Details
- Concrete Parapet Slipforming Option
- Drainage Scupper, DS-12
- Framing Plan
- Structural Steel Details
- 13. Bearing Details
- Abutment Removal Details
- 16. South Abutment Details
- 18. North Abutment Details



PROFILE GRADE

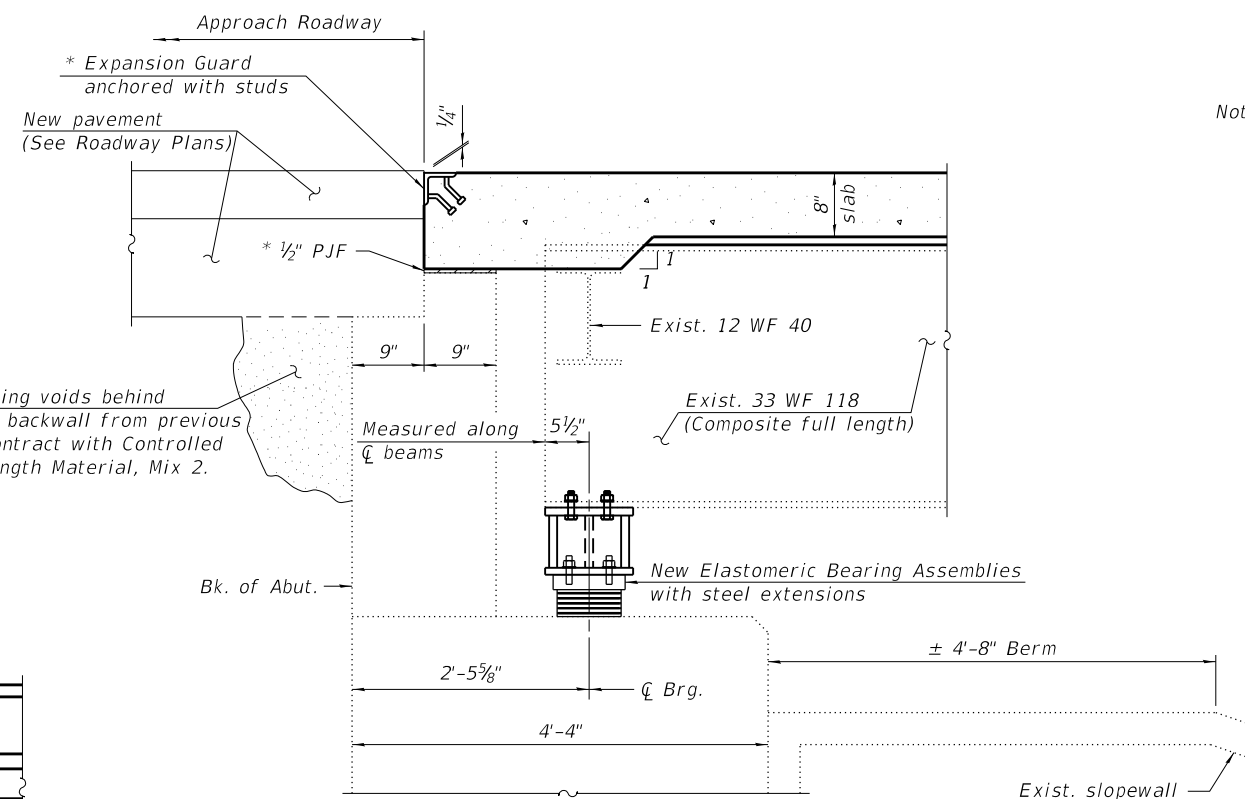
Along WB and EB F.A.I. Rte. 70 (Existing P.G.)

Note:
The FAI Rte. 70 Profile Grade shown above is from the existing 1966 plans. The Contractor is advised that this information may be based on an older vertical datum. Field verify and adjust, as required.



PROFILE GRADE

Along CL TR 14 (Baumann Road)



* See Section A-A on sheet 6 of 18 for additional details.

SECTION THRU ABUTMENT

(Horiz. dimensions are at Rt. L's., except as noted)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 003-0042**

SHEET NO. 2 OF 18 SHEETS

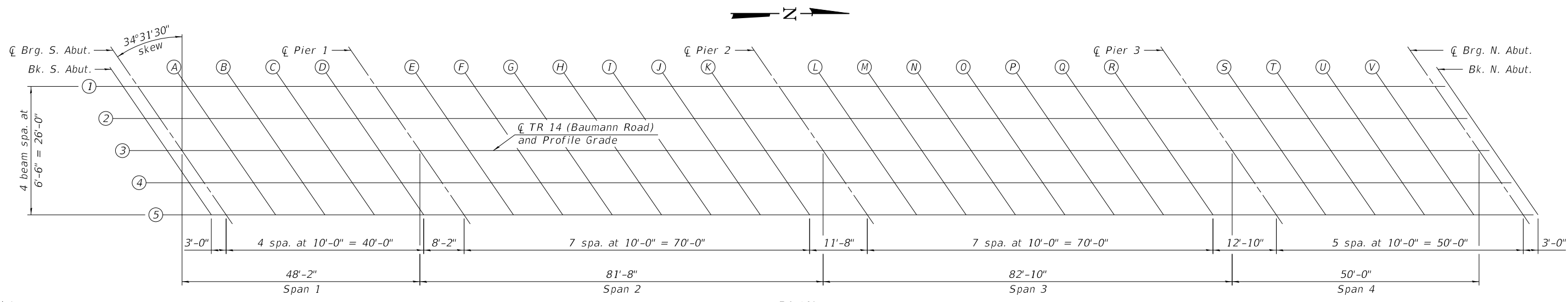
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	16
* BOND AND MADISON			CONTRACT NO. 76L43	

ILLINOIS FED. AID PROJECT

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design firm no. 184001036
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PLOT SCALE - 0:2" = 1' / in.	DRAWN - DLH	REVISED -
PLOT DATE - 1/23/2018	CHECKED - SBC	REVISED -



Note:
Work this sheet with sheet 4 of 18.

PLAN

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	14+58.23	-13.00	539.46	539.46
☐ Brg. S. Abut.	14+61.23	-13.00	539.52	539.52
A	14+71.23	-13.00	539.70	539.71
B	14+81.23	-13.00	539.88	539.88
C	14+91.23	-13.00	540.04	540.04
D	15+01.23	-13.00	540.19	540.19
☐ Pier 1	15+09.39	-13.00	540.31	540.31
E	15+19.39	-13.00	540.45	540.46
F	15+29.39	-13.00	540.57	540.61
G	15+39.39	-13.00	540.69	540.74
H	15+49.39	-13.00	540.80	540.86
I	15+59.39	-13.00	540.89	540.94
J	15+69.39	-13.00	540.98	541.01
K	15+79.39	-13.00	541.06	541.07
☐ Pier 2	15+91.06	-13.00	541.13	541.13
L	16+01.06	-13.00	541.19	541.20
M	16+11.06	-13.00	541.24	541.27
N	16+21.06	-13.00	541.27	541.33
O	16+31.06	-13.00	541.30	541.36
P	16+41.06	-13.00	541.32	541.38
Q	16+51.06	-13.00	541.32	541.37
R	16+61.06	-13.00	541.32	541.35
☐ Pier 3	16+73.89	-13.00	541.30	541.30
S	16+83.89	-13.00	541.28	541.28
T	16+93.89	-13.00	541.24	541.25
U	17+03.89	-13.00	541.20	541.21
V	17+13.89	-13.00	541.15	541.15
☐ Brg. N. Abut.	17+23.89	-13.00	541.08	541.08
Bk. N. Abut.	17+26.89	-13.00	541.06	541.06

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	14+62.70	-6.50	539.65	539.65
☐ Brg. S. Abut.	14+65.70	-6.50	539.70	539.70
A	14+75.70	-6.50	539.88	539.89
B	14+85.70	-6.50	540.05	540.06
C	14+95.70	-6.50	540.21	540.21
D	15+05.70	-6.50	540.36	540.36
☐ Pier 1	15+13.87	-6.50	540.47	540.47
E	15+23.87	-6.50	540.61	540.63
F	15+33.87	-6.50	540.73	540.77
G	15+43.87	-6.50	540.84	540.91
H	15+53.87	-6.50	540.94	541.01
I	15+63.87	-6.50	541.03	541.10
J	15+73.87	-6.50	541.12	541.15
K	15+83.87	-6.50	541.19	541.20
☐ Pier 2	15+95.53	-6.50	541.26	541.26
L	16+05.53	-6.50	541.31	541.33
M	16+15.53	-6.50	541.36	541.39
N	16+25.53	-6.50	541.39	541.45
O	16+35.53	-6.50	541.41	541.49
P	16+45.53	-6.50	541.42	541.50
Q	16+55.53	-6.50	541.43	541.48
R	16+65.53	-6.50	541.42	541.45
☐ Pier 3	16+78.37	-6.50	541.40	541.40
S	16+88.37	-6.50	541.37	541.36
T	16+98.37	-6.50	541.33	541.33
U	17+08.37	-6.50	541.28	541.29
V	17+18.37	-6.50	541.22	541.23
☐ Brg. N. Abut.	17+28.37	-6.50	541.15	541.15
Bk. N. Abut.	17+31.37	-6.50	541.13	541.13

☐ ROADWAY, PROFILE GRADE, & BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	14+67.17	0.00	539.83	539.83
☐ Brg. S. Abut.	14+70.17	0.00	539.89	539.89
A	14+80.17	0.00	540.06	540.07
B	14+90.17	0.00	540.23	540.23
C	15+00.17	0.00	540.38	540.38
D	15+10.17	0.00	540.52	540.52
☐ Pier 1	15+18.33	0.00	540.64	540.64
E	15+28.33	0.00	540.76	540.78
F	15+38.33	0.00	540.88	540.93
G	15+48.33	0.00	540.99	541.05
H	15+58.33	0.00	541.09	541.16
I	15+68.33	0.00	541.17	541.23
J	15+78.33	0.00	541.25	541.29
K	15+88.33	0.00	541.32	541.33
☐ Pier 2	16+00.00	0.00	541.39	541.39
L	16+10.00	0.00	541.44	541.45
M	16+20.00	0.00	541.47	541.51
N	16+30.00	0.00	541.50	541.56
O	16+40.00	0.00	541.52	541.60
P	16+50.00	0.00	541.53	541.60
Q	16+60.00	0.00	541.53	541.58
R	16+70.00	0.00	541.51	541.54
☐ Pier 3	16+82.83	0.00	541.49	541.49
S	16+92.83	0.00	541.45	541.45
T	17+02.83	0.00	541.41	541.41
U	17+12.83	0.00	541.36	541.36
V	17+22.83	0.00	541.29	541.30
☐ Brg. N. Abut.	17+32.83	0.00	541.22	541.22
Bk. N. Abut.	17+35.83	0.00	541.20	541.20

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design firm
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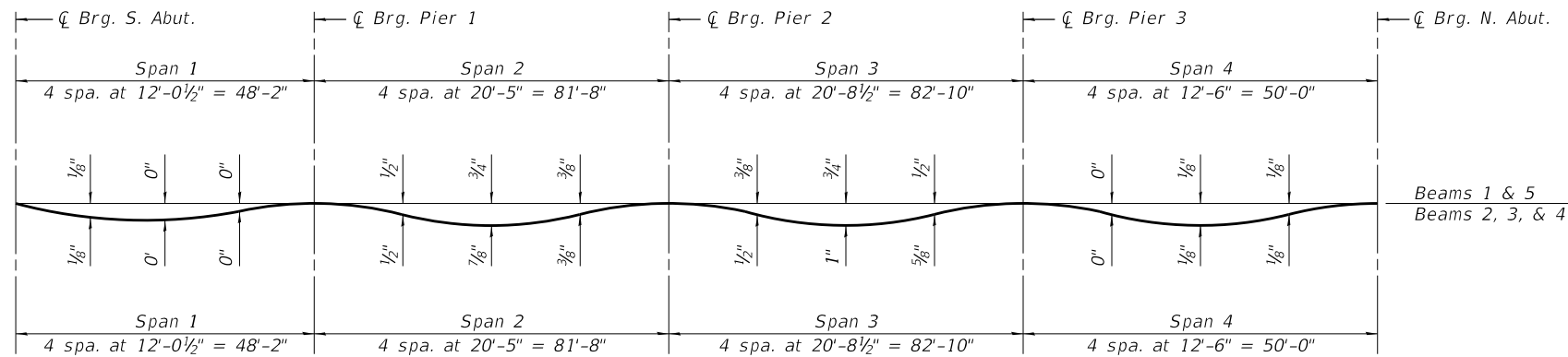
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PLOT DATE - 1/23/2018	CHECKED - SBC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS
STRUCTURE NO. 003-0042

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	17
* BOND AND MADISON			CONTRACT NO. 76L43	

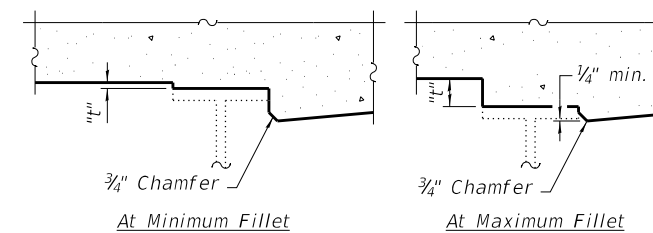
SHEET NO. 3 OF 18 SHEETS



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

Notes:

1. The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below and on sheet 3 of 18.
2. Work this sheet with sheet 3 of 18.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below and on sheet 3 of 18, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

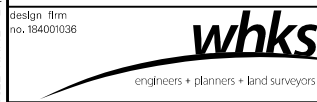
BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	14+71.64	6.50	539.81	539.81
☐ Brg. S. Abut.	14+74.64	6.50	539.86	539.86
A	14+84.64	6.50	540.03	540.04
B	14+94.64	6.50	540.19	540.20
C	15+04.64	6.50	540.34	540.34
D	15+14.64	6.50	540.48	540.48
☐ Pier 1	15+22.81	6.50	540.59	540.59
E	15+32.81	6.50	540.71	540.73
F	15+42.81	6.50	540.83	540.87
G	15+52.81	6.50	540.93	541.00
H	15+62.81	6.50	541.02	541.10
I	15+72.81	6.50	541.11	541.17
J	15+82.81	6.50	541.18	541.22
K	15+92.81	6.50	541.25	541.26
☐ Pier 2	16+04.47	6.50	541.31	541.31
L	16+14.47	6.50	541.35	541.36
M	16+24.47	6.50	541.38	541.42
N	16+34.47	6.50	541.41	541.47
O	16+44.47	6.50	541.42	541.50
P	16+54.47	6.50	541.43	541.50
Q	16+64.47	6.50	541.42	541.48
R	16+74.47	6.50	541.40	541.43
☐ Pier 3	16+87.31	6.50	541.37	541.37
S	16+97.31	6.50	541.33	541.33
T	17+07.31	6.50	541.28	541.29
U	17+17.31	6.50	541.23	541.24
V	17+27.31	6.50	541.16	541.17
☐ Brg. N. Abut.	17+37.31	6.50	541.08	541.08
Bk. N. Abut.	17+40.31	6.50	541.06	541.06

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	14+76.11	13.00	539.79	539.79
☐ Brg. S. Abut.	14+79.11	13.00	539.84	539.84
A	14+89.11	13.00	540.01	540.01
B	14+99.11	13.00	540.16	540.17
C	15+09.11	13.00	540.31	540.31
D	15+19.11	13.00	540.44	540.44
☐ Pier 1	15+27.28	13.00	540.55	540.55
E	15+37.28	13.00	540.66	540.68
F	15+47.28	13.00	540.77	540.81
G	15+57.28	13.00	540.87	540.93
H	15+67.28	13.00	540.96	541.02
I	15+77.28	13.00	541.04	541.09
J	15+87.28	13.00	541.11	541.14
K	15+97.28	13.00	541.17	541.18
☐ Pier 2	16+08.95	13.00	541.23	541.23
L	16+18.95	13.00	541.27	541.28
M	16+28.95	13.00	541.29	541.33
N	16+38.95	13.00	541.31	541.37
O	16+48.95	13.00	541.32	541.39
P	16+58.95	13.00	541.32	541.39
Q	16+68.95	13.00	541.31	541.36
R	16+78.95	13.00	541.29	541.32
☐ Pier 3	16+91.78	13.00	541.25	541.25
S	17+01.78	13.00	541.21	541.21
T	17+11.78	13.00	541.16	541.16
U	17+21.78	13.00	541.10	541.10
V	17+31.78	13.00	541.03	541.03
☐ Brg. N. Abut.	17+41.78	13.00	540.94	540.94
Bk. N. Abut.	17+44.78	13.00	540.92	540.92

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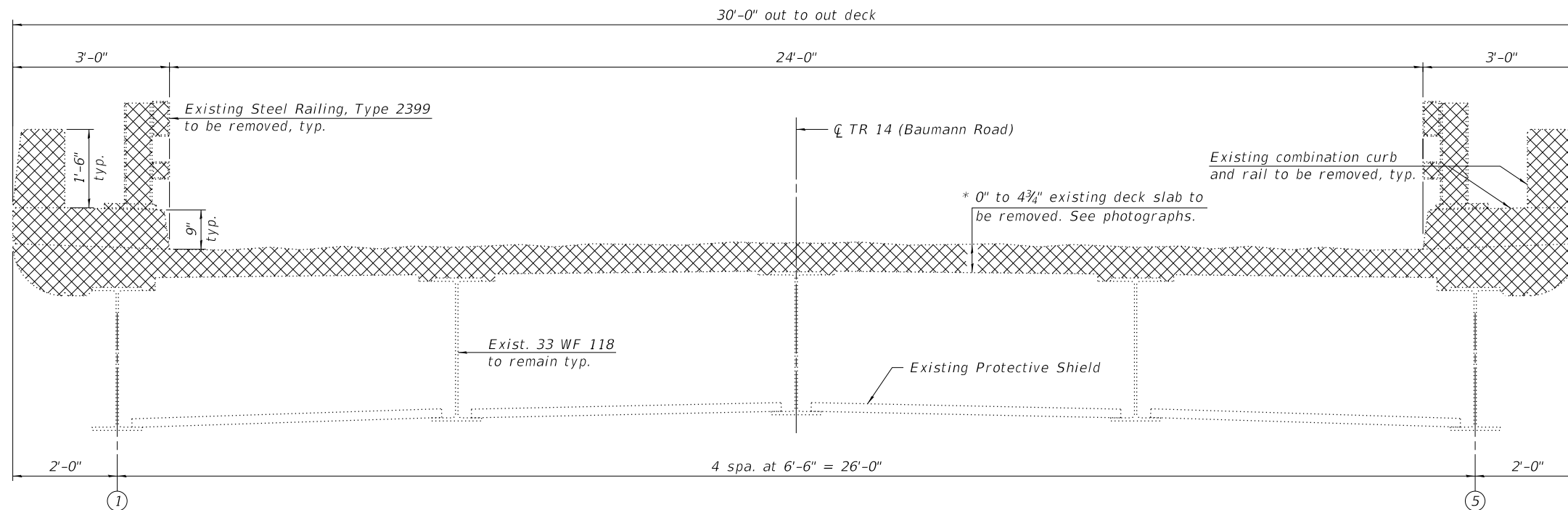
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PLOT DATE - 1/23/2018	CHECKED - SBC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF DECK ELEVATIONS
STRUCTURE NO. 003-0042**


SHEET NO. 4 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	18
* BOND AND MADISON			CONTRACT NO. 76L43	
ILLINOIS		FED. AID PROJECT		



EXISTING CROSS SECTION
(Looking North)

LEGEND

 Limits of Removal of Existing Concrete Deck.

* The Contractor is advised that the existing deck is in a partially removed state with reduced load carrying capacity. See photographs and Special Provisions for Removal of Existing Concrete Deck.



PHOTOGRAPH NO. 1
(Showing general condition of existing deck.)

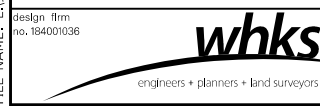


PHOTOGRAPH NO. 2
(Showing plywood covering holes in existing deck.)

BILL OF MATERIAL

Item	Unit	Total
Removal of Existing Concrete Deck	Each	1

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design firm
no. 184001036
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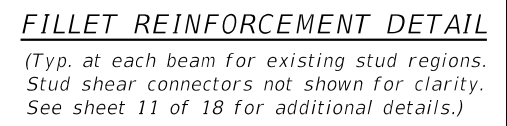
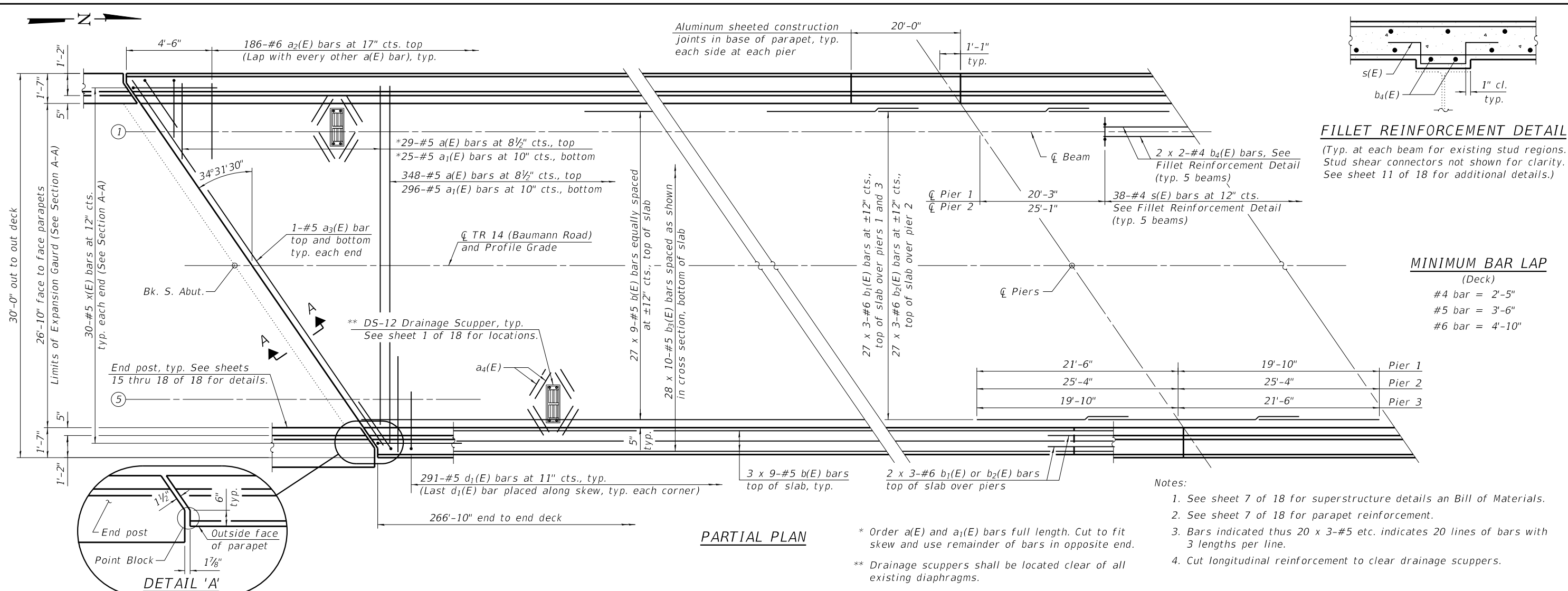
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PLOT DATE - 1/23/2018	CHECKED - SBC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 003-0042**

SHEET NO. 5 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	19
* BOND AND MADISON			CONTRACT NO. 76L43	
ILLINOIS		FED. AID PROJECT		

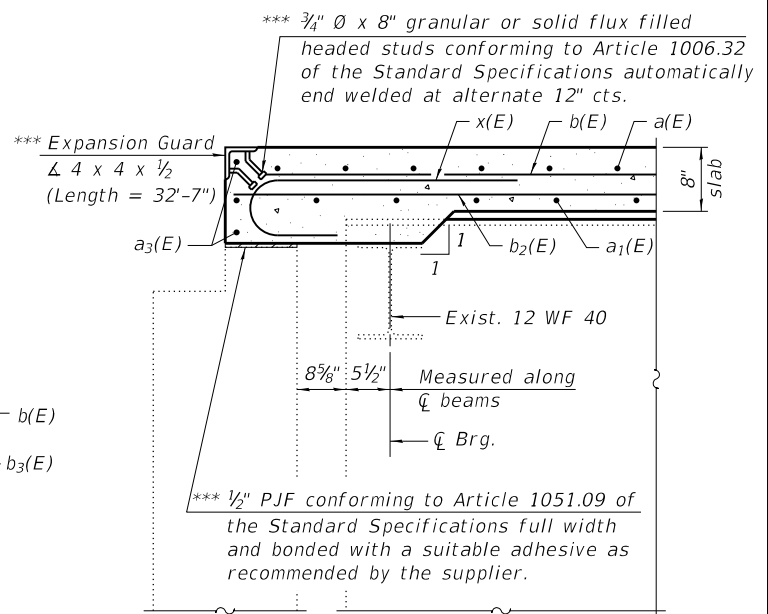
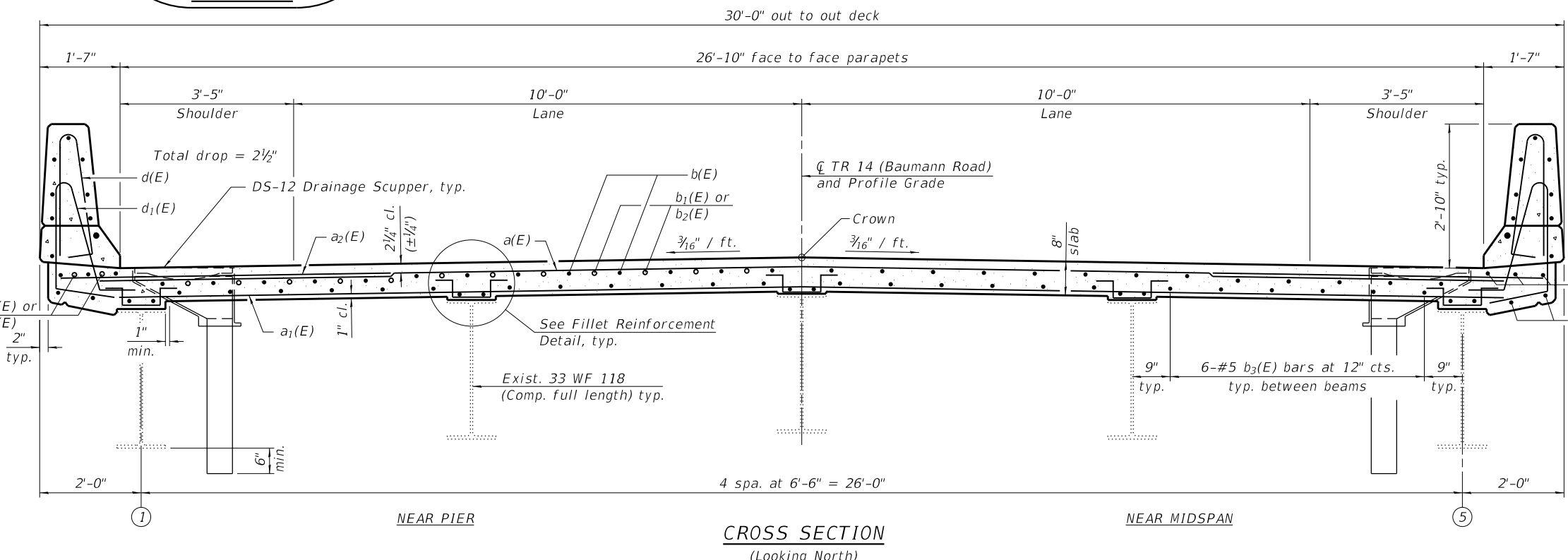


MINIMUM BAR LAP (Deck)

#4 bar	= 2'-5"
#5 bar	= 3'-6"
#6 bar	= 4'-10"

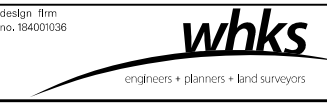
- Notes:**
- See sheet 7 of 18 for superstructure details and Bill of Materials.
 - See sheet 7 of 18 for parapet reinforcement.
 - Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 - Cut longitudinal reinforcement to clear drainage scuppers.

* Order a(E) and a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.
 ** Drainage scuppers shall be located clear of all existing diaphragms.



SECTION A-A
 (Typ. at each abutment)
 (4 x 4 x 1/2 and 3/4" x 8" headed studs shall be galvanized according to AASHTO M111 or M232 as applicable.)
 *** Cost included with Concrete Superstructure.

MODEL: 0030042-76L43-006
 FILE NAME: L:\Jobs\DOT_D-818165-03_Baummann Rot\CADD\CADD Sheets\0030042-76L43.dgn
 design firm no. 184001036
 1/23/2018 10:39:58 AM

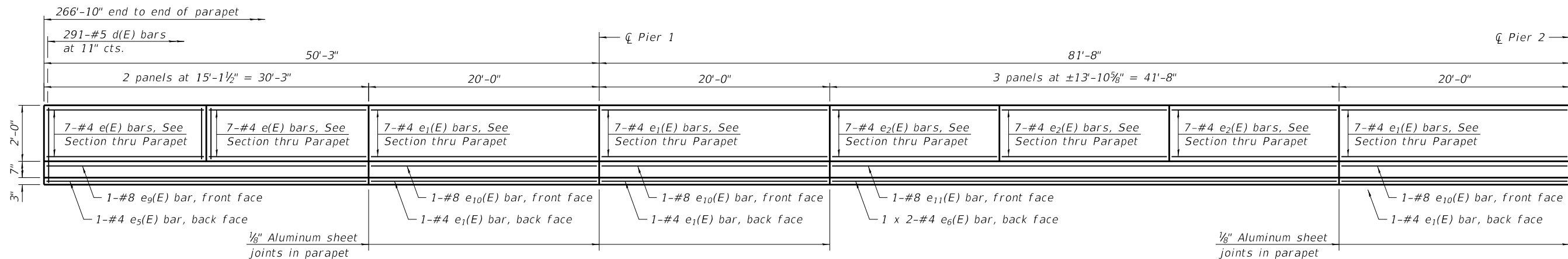


USER NAME - dheberling	DESIGNED - SBC	REVISED -
FILE NAME - 0030042-76L43.dgn	CHECKED - SDS	REVISED -
PLOT SCALE - 0:2" = 1'	DRAWN - DLH	REVISED -
PLOT DATE - 1/23/2018	CHECKED - SBC	REVISED -

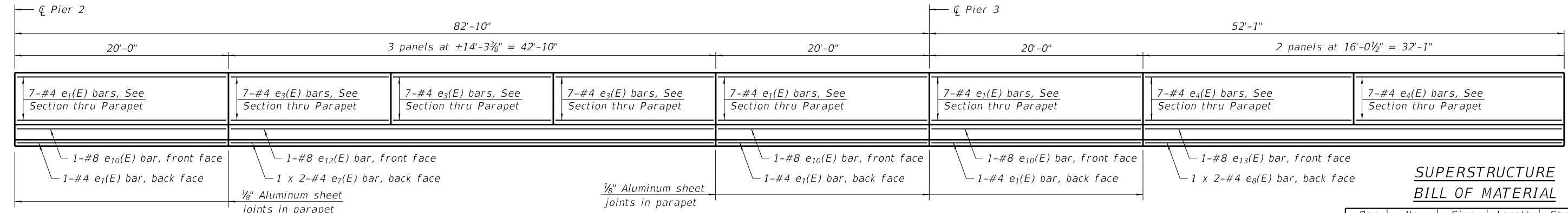
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 003-0042
 SHEET NO. 6 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2		46	20
* BOND AND MADISON			CONTRACT NO. 76L43	
ILLINOIS		FED. AID PROJECT		



INSIDE ELEVATION OF PARAPET



INSIDE ELEVATION OF PARAPET

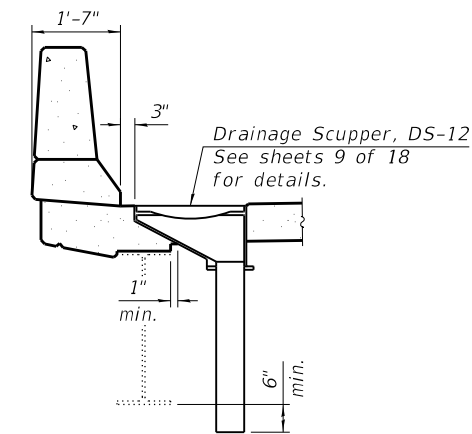
Notes:

- The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
- The Polyurethane Sealant shall be according to Article 1050.04 of the Standard Specifications and the color shall be gray.

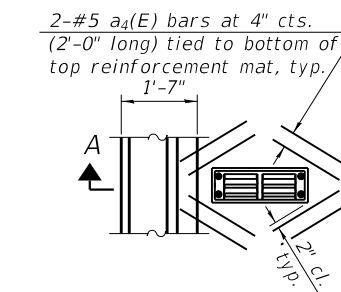
MINIMUM BAR LAP

(Parapet)

- #4 bar = 2'-5"
- #8 bar = 5'-11"



SECTION A-A

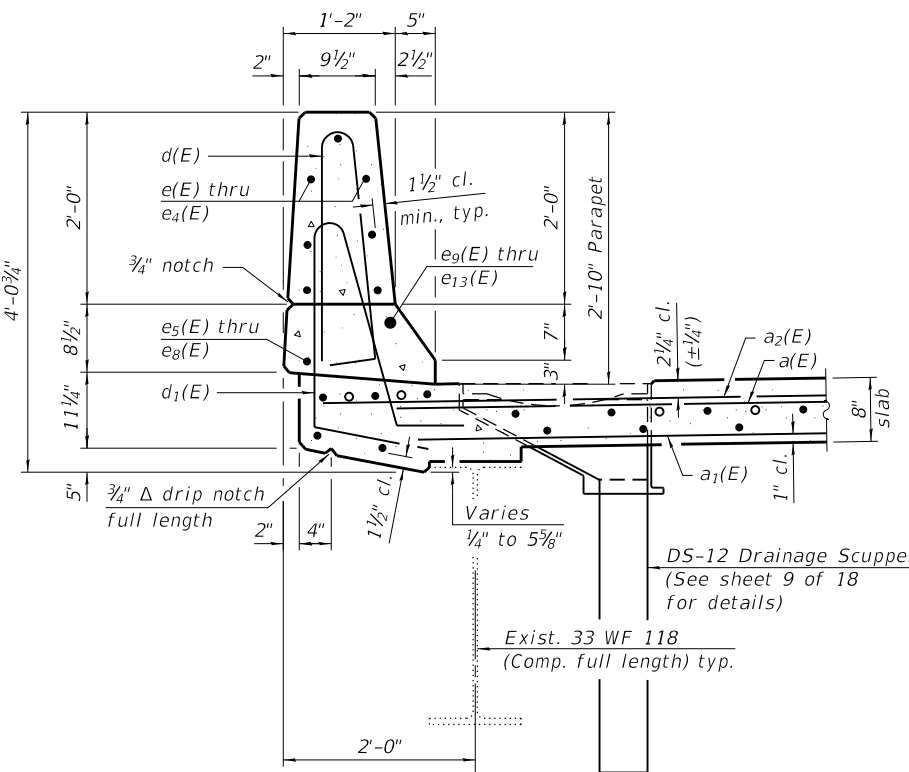


PLAN

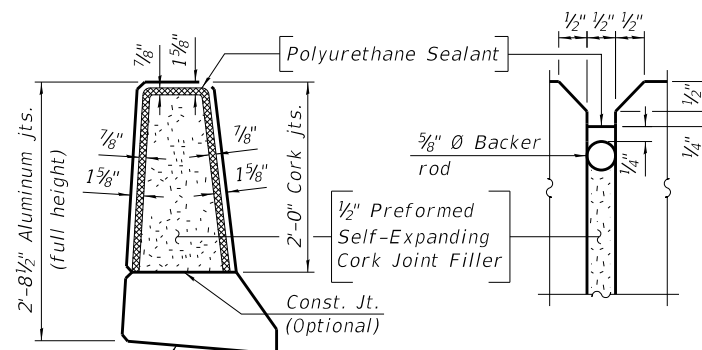
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	377	#5	29'-5"	—
a1(E)	321	#5	28'-0"	—
a2(E)	372	#6	6'-6"	—
a3(E)	4	#5	36'-0"	—
a4(E)	32	#5	2'-0"	—
b(E)	297	#5	32'-9"	—
b1(E)	186	#6	17'-0"	—
b2(E)	93	#6	20'-2"	—
b3(E)	280	#5	29'-10"	—
b4(E)	40	#4	19'-9"	—
d(E)	582	#5	5'-7"	—
d1(E)	582	#5	6'-10"	—
e(E)	28	#4	14'-10"	—
e1(E)	84	#4	19'-9"	—
e2(E)	42	#4	13'-7"	—
e3(E)	42	#4	14'-0"	—
e4(E)	28	#4	15'-9"	—
e5(E)	2	#4	30'-0"	—
e6(E)	4	#4	22'-0"	—
e7(E)	4	#4	22'-7"	—
e8(E)	4	#4	17'-3"	—
e9(E)	2	#8	30'-0"	—
e10(E)	12	#8	19'-9"	—
e11(E)	4	#8	23'-9"	—
e12(E)	4	#8	24'-4"	—
e13(E)	2	#8	31'-10"	—
s(E)	380	#4	3'-3 1/2"	—
x(E)	60	#5	5'-4"	—
Concrete Superstructure	Cu. Yd.	279.5		
Reinforcement Bars, Epoxy Coated	Pound	64600		

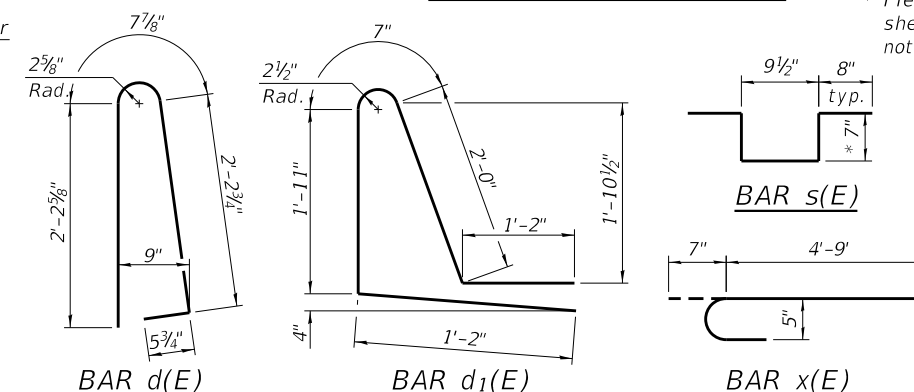
Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.



SECTION THRU PARAPET



PARAPET JOINT DETAILS



BAR d(E)

BAR d1(E)

BAR x(E)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS STRUCTURE NO. 003-0042

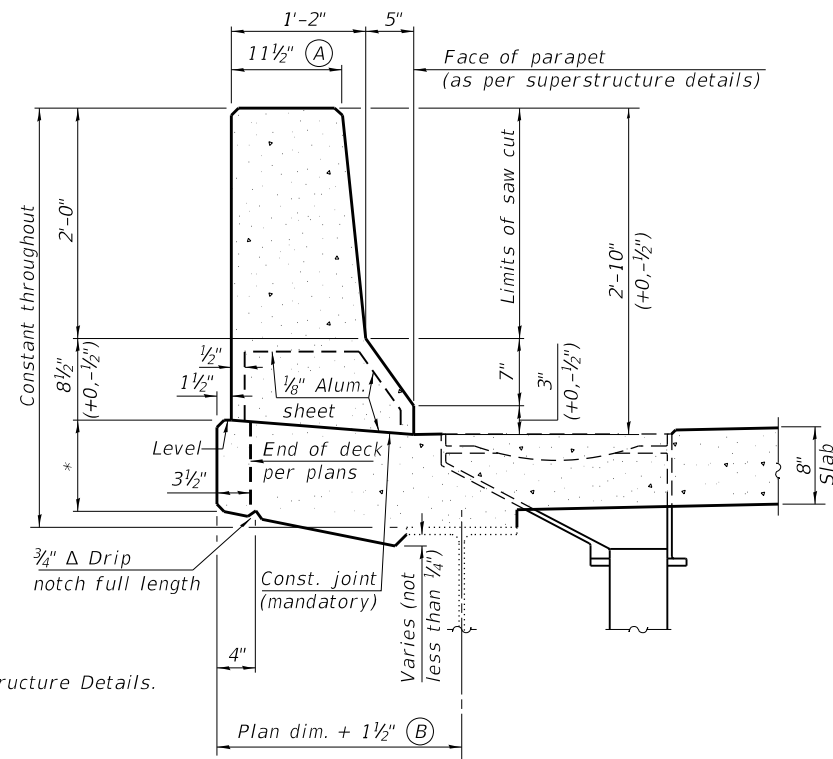
SHEET NO. 7 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-18B-2		46	21
* BOND AND MADISON			CONTRACT NO. 76L43	
	ILLINOIS	FED. AID PROJECT		

MODEL: 0030042-76L43-007
design firm
no. 184001036
FILE NAME: L:\Jobs\DOT_D-818165_PTB_176-02218165-03_Baumann Rot\CADD\CADD Sheets\0030042-76L43.dgn

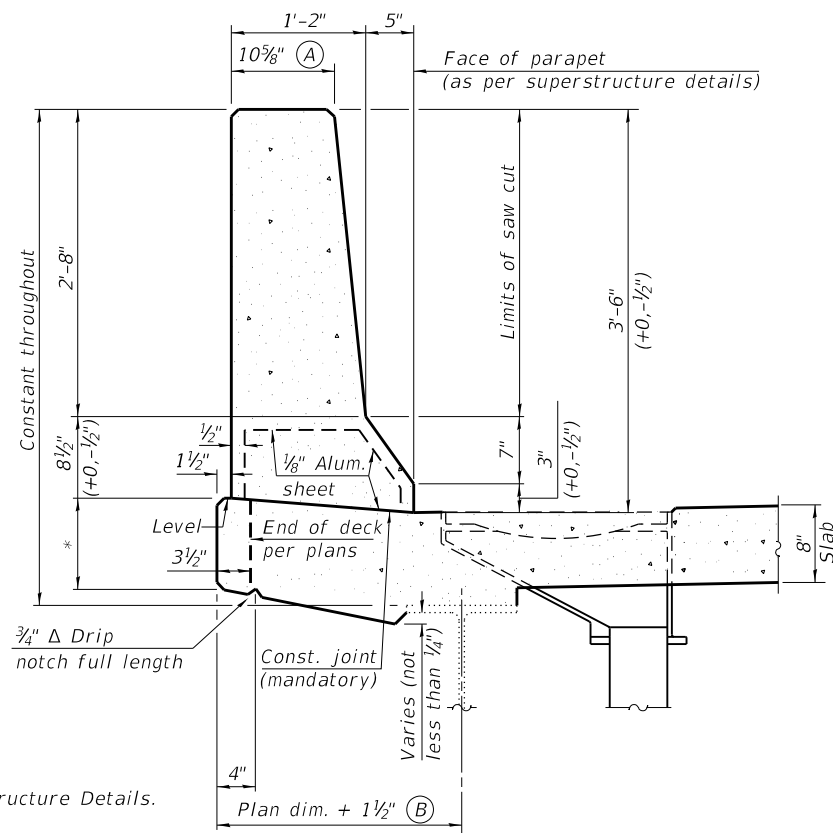


USER NAME - dheberling	DESIGNED - SBC	REVISED -
FILE NAME - 0030042-76L43.dgn	CHECKED - SDS	REVISED -
PLOT SCALE - 0:2" = 1"	DRAWN - DLH	REVISED -
PLOT DATE - 1/23/2018	CHECKED - SBC	REVISED -



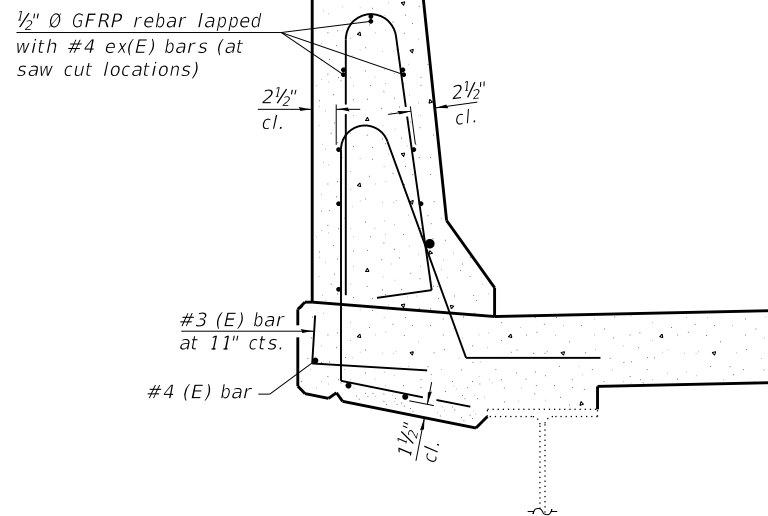
34" F SHAPE PARAPET SECTION
(Showing dimensions)

* See Superstructure Details.



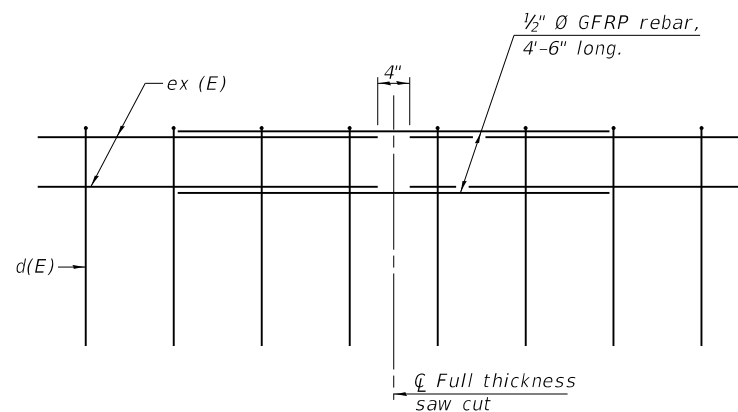
42" F SHAPE PARAPET SECTION
(Showing dimensions)

* See Superstructure Details.



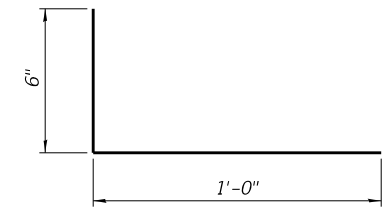
SECTION

(34" parapet shown - 42" parapet similar)
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

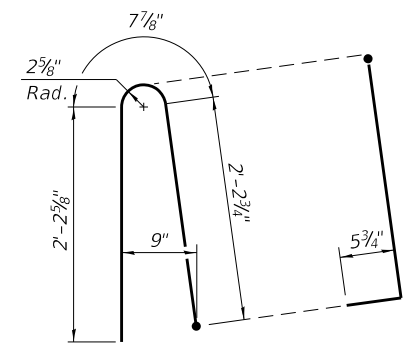


GFRP REBAR STIFFENING DETAIL

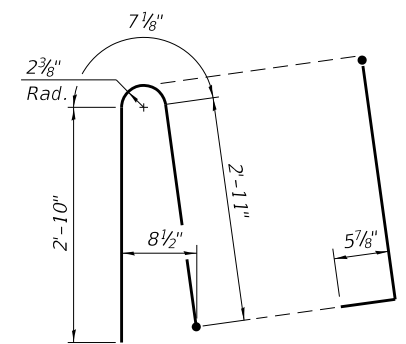
(Place as shown in parapet section at each parapet joint location.)



#3 (E) BAR



ALTERNATE BAR d(E)
(For 34" parapet when conduit is present)



ALTERNATE BAR d(E)
(For 42" parapet when conduit is present)

Notes:

- All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet.
- Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.
- Steel superstructure shown. Other superstructure types similar.
- Work this sheet with sheets 6 and 7 of 18.

MODEL: 0030042-76L43-008
design firm
no. 184001036
FILE NAME: L:\Jobs\DOT_D-818165_PTB_176-02218165-03_Baumann Rot\CADD\CADD Sheets\0030042-76L43.dgn



USER NAME - dheberling	DESIGNED - SBC	REVISED -
FILE NAME - 0030042-76L43.dgn	CHECKED - SDS	REVISED -
PLOT SCALE - 0:2" = 1'	DRAWN - DLH	REVISED -
PLOT DATE - 1/23/2018	CHECKED - SBC	REVISED -

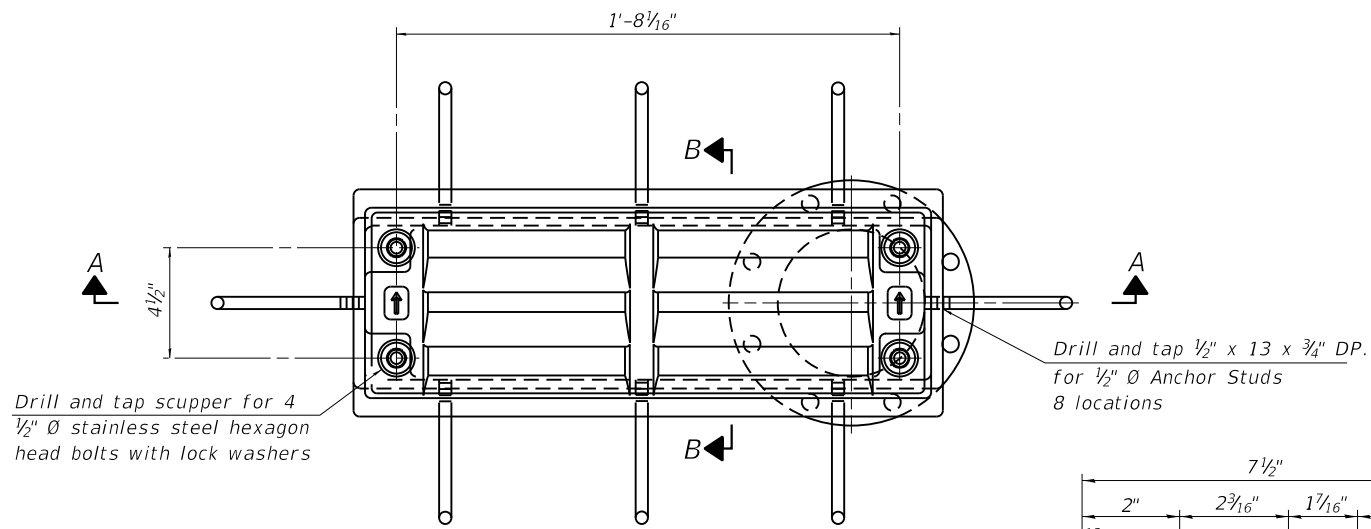
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 003-0042**

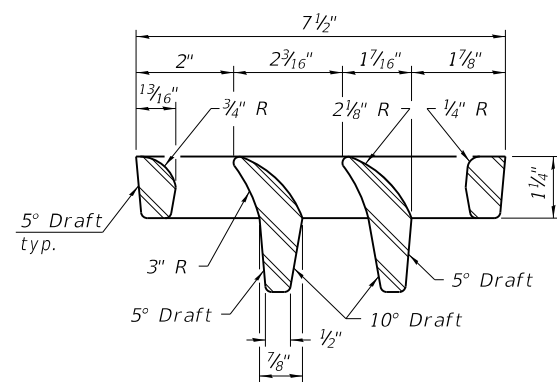
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	22
* BOND AND MADISON			CONTRACT NO. 76L43	
ILLINOIS		FED. AID PROJECT		

SHEET NO. 8 OF 18 SHEETS

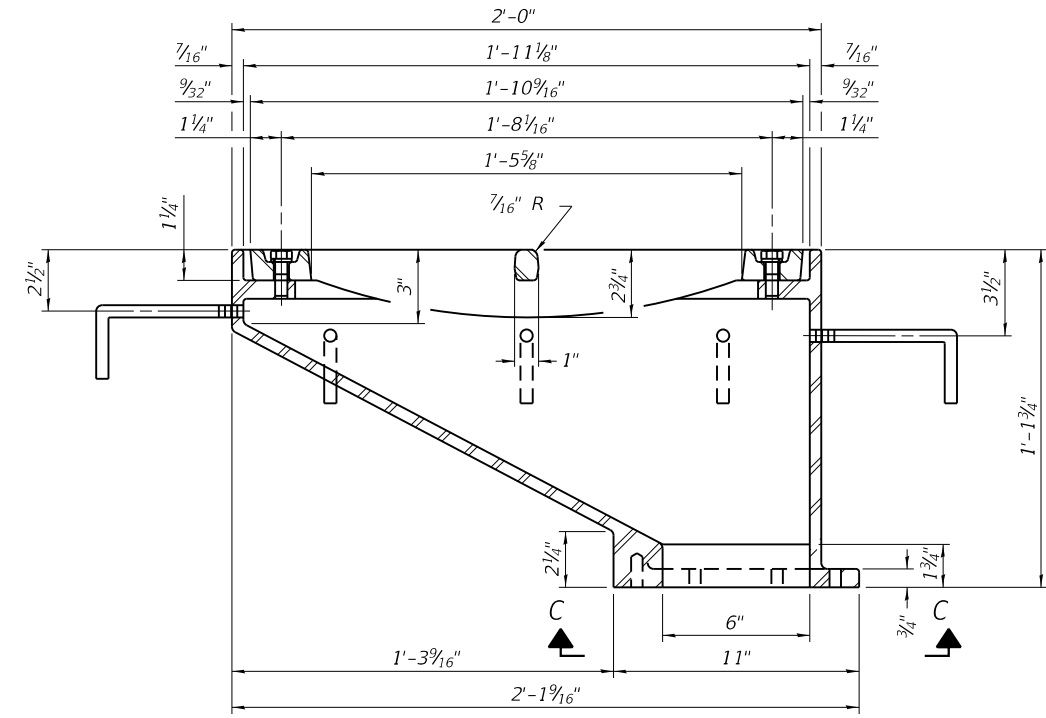
- Notes:
- All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 - Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 - Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
 - As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 - Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.
 - The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 - Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-12.
 - Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



PLAN

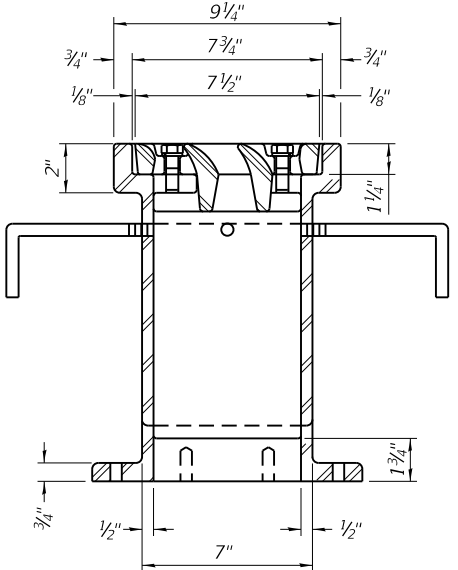


VANE GRATE DETAIL

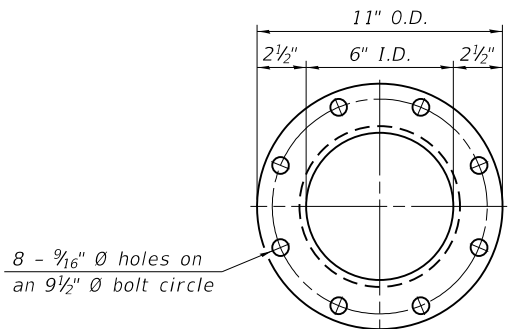


SECTION A-A

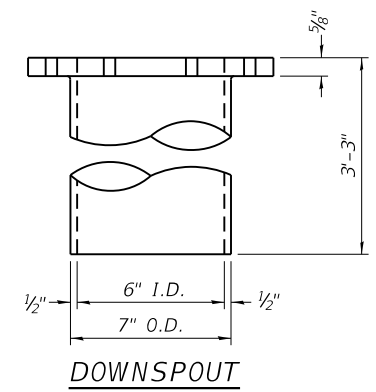
See sheet 7 of 18 for scupper location relative to parapet.



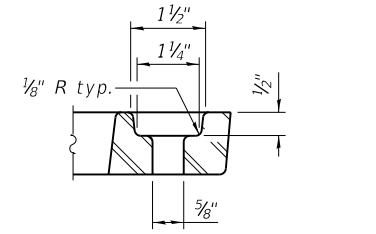
SECTION B-B



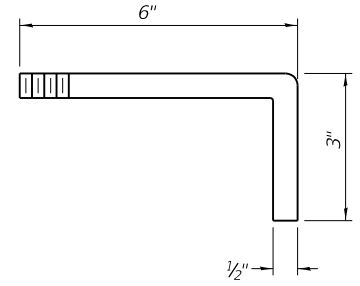
VIEW C-C



DOWNSPOUT



BOLT HOLE DETAIL



ANCHOR STUD DETAIL

Drill and tap 8 holes for 1/2" - 13 bolts on a 9 1/2" Ø bolt circle. (2 blind holes are 1 1/4" deep, 6 thru holes)

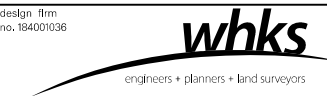
BILL OF MATERIAL

Item	Unit	Total
Drainage Scupper, DS-12	Each	4

MODEL: 0030042-76L43-009
 FILE NAME: L:\Jobs\DOT_D-818165_PTB_176-02218165-03_Baummann Rot\CADD\CADD Sheets\0030042-76L43.dgn

DS-12

2-17-2017



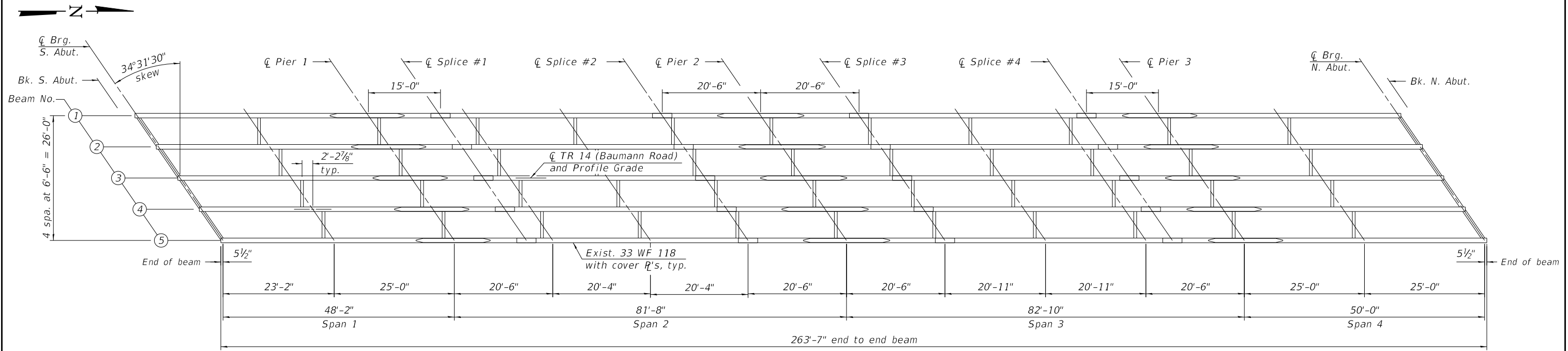
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FILE NAME - 0030042-76L43.dgn	CHECKED - SDS	REVISED -
PLOT SCALE - 0:2" = 1'	DRAWN - DLH	REVISED -
PLOT DATE - 1/23/2018	CHECKED - SBC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-12
STRUCTURE NO. 003-0042

SHEET NO. 9 OF 18 SHEETS

F.A.I. RTE. 70	SECTION 3-1HB-2	COUNTY *	TOTAL SHEETS 46	SHEET NO. 23
* BOND AND MADISON			CONTRACT NO. 76L43	
ILLINOIS		FED. AID PROJECT		



PLAN

INTERIOR BEAM MOMENT TABLE

		0.4 Span 1	Pier 1	0.5 Span 2	Pier 2	0.5 Span 3	Pier 3	0.6 Span 4
I_s	(in ⁴)	5900	8080	5900	9972	5900	8080	5900
$I_c(n)$	(in ⁴)	17635	-	17635	-	17635	-	17635
$I_c(3n)$	(in ⁴)	13044	-	13044	-	13044	-	13044
$I_c(cr)$	(in ⁴)	-	10765	-	12704	-	10765	-
S_s	(in ³)	359	480	359	582	359	480	359
$S_c(n)$	(in ³)	560	-	560	-	560	-	560
$S_c(3n)$	(in ³)	507	-	507	-	507	-	507
$S_c(cr)$	(in ³)	-	548	-	647	-	548	-
Z	(in ³)	-	-	-	-	-	-	-
q	(k/ft)	0.822	0.848	0.822	0.871	0.822	0.848	0.822
M_q	(k)	79.9	358.6	220.1	539.7	231.2	376.1	90.2
s_q	(k/ft)	0.180	0.180	0.180	0.180	0.180	0.180	0.180
$M_{s,q}$	(k)	18.3	79.6	50.5	119.4	53.0	83.3	20.7
M_k	(k)	290.9	343.6	414.0	433.0	426.0	352.9	304.9
M_I	(k)	84.0	90.5	100.1	104.5	102.5	92.2	87.1
$5/3(M_k + I)$	(k)	624.9	723.6	856.8	895.8	880.7	741.8	653.3
M_a	(k)	941.2	1511.8	1467.5	2023.3	1516.2	1563.0	994.8
* M_u	(k)	2406.1	2166.8	2406.1	2501.1	2406.1	2166.8	2406.1
$f_{s,q}$ non-comp	(ksi)	2.7	9.0	7.4	11.1	7.7	9.4	3.0
$f_{s,q}$ (comp)	(ksi)	0.4	1.7	1.2	2.2	1.3	1.8	0.5
$f_{s, 5/3(M_k + M_I)}$	(ksi)	13.4	15.9	18.4	16.6	18.9	16.3	14.0
f_s (Overload)	(ksi)	16.5	26.6	27.0	29.9	27.9	27.5	17.5
** f_s (Total)	(ksi)	-	-	-	-	-	-	-
VR	(k)	51.5	55.8	55.8	51.5	54.7	54.7	51.4

* Compact Section

** Braced non-compact and partially braced section.

INTERIOR BEAM REACTION TABLE

	S. Abut.	Pier 1	Pier 2	Pier 3	N. Abut.
R_q	15.3	70.4	86.7	72.4	16.1
R_k	37.3	46.4	50.3	46.5	37.6
R_I	10.8	12.2	12.1	12.1	10.7
R_{TOTAL}	63.4	129.0	149.1	131.0	64.5

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total and Overload) due to non-composite dead loads (in⁴ and in³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total and Overload) due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total and Overload) due to long-term composite (superimposed) dead loads (in⁴ and in³).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total and Overload) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in⁴ and in³).

Z : Plastic Section Modulus of the steel section in non-composite areas (in³).

q : Un-factored non-composite dead load (kips/ft.).

M_q : Un-factored moment due to non-composite dead load (kip-ft.).

s_q : Un-factored long-term composite (superimposed) dead load (kips/ft.).

$M_{s,q}$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).

M_k : Un-factored live load moment (kip-ft.).

M_I : Un-factored moment due to impact (kip-ft.).

M_a : Factored design moment (kip-ft.). $1.3 [M_q + M_{s,q} + \frac{5}{3}(M_k + M_I)]$

M_u : Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).

f_s (Overload): Sum of stresses as computed from the moments below (ksi).

$M_q + M_{s,q} + \frac{5}{3}(M_k + M_I)$

f_s (Total): Sum of stresses as computed from the moments below on non-compact section (ksi). $1.3 [M_q + M_{s,q} + \frac{5}{3}(M_k + M_I)]$

VR: Maximum k + impact shear range within the composite portion of the span for stud shear connector design (kips).

Note:

Work this sheet with sheet 11 of 18.

MODEL: 0030042-76L43-0010
design firm
no. 184001036
FILE NAME: L:\Jobs\DOT_D-818165_PTB_176-02218165-03_Baumann_Rot\CADD\CADD_Sheets\0030042-76L43.dgn



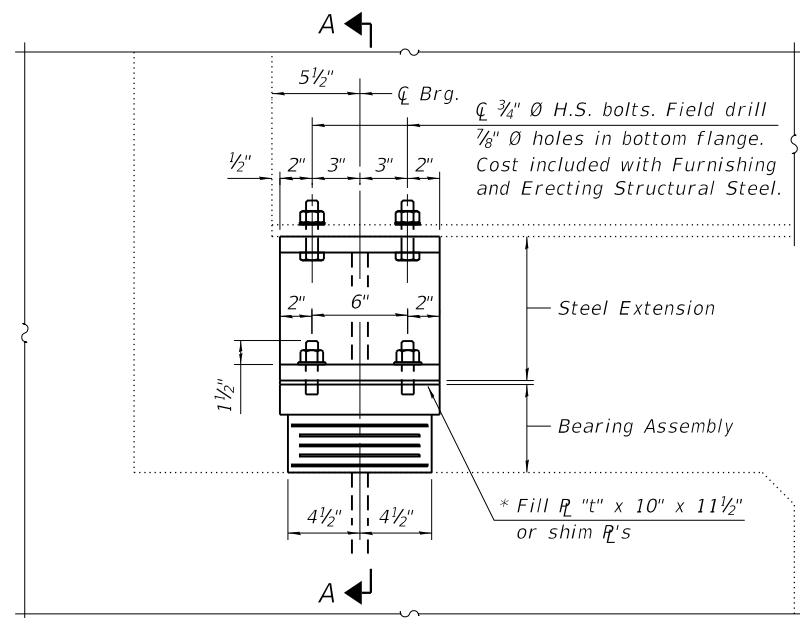
USER NAME - dheberling	DESIGNED - SBC	REVISED -
FILE NAME - 0030042-76L43.dgn	CHECKED - SDS	REVISED -
PLOT SCALE - 0:2" = 1'	DRAWN - DLH	REVISED -
PLOT DATE - 1/23/2018	CHECKED - SBC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE NO. 003-0042

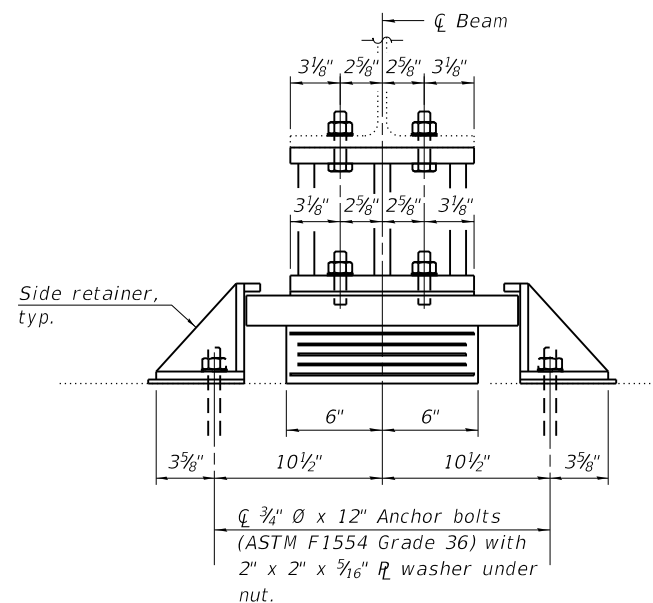
SHEET NO. 10 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	24
* BOND AND MADISON			CONTRACT NO. 76L43	
ILLINOIS		FED. AID PROJECT		

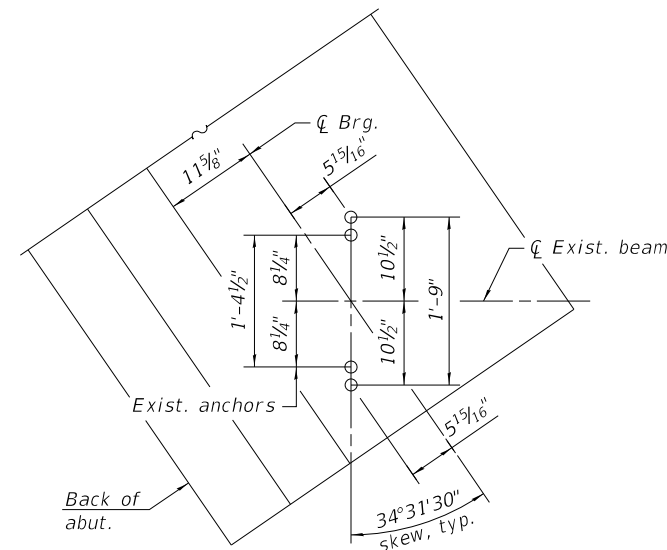


ELEVATION AT ABUTMENTS

TYPE I ELASTOMERIC EXP. BRG.

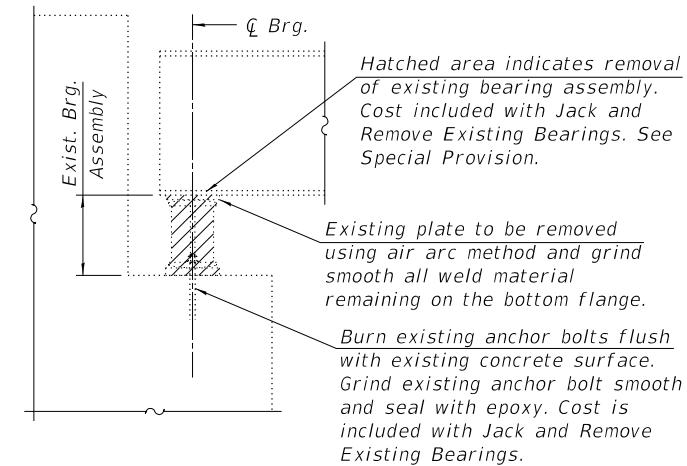


SECTION A-A



ANCHOR BOLT LOCATION

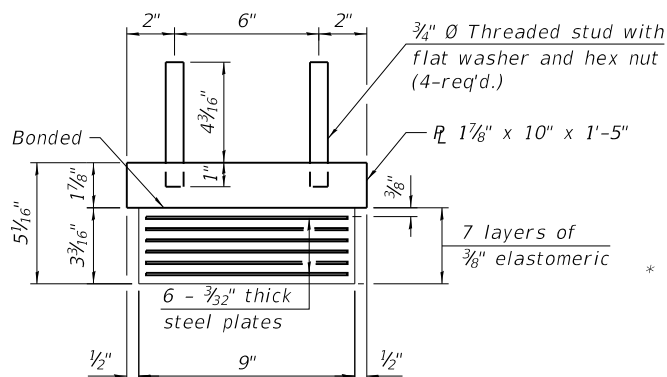
(South abut. shown North abut. similar)
(For information only.)



EXISTING BEARING ASSEMBLY REMOVAL DETAIL
(Abutments shown. Piers 1 and 3 similar.)

JACK AND REMOVE EXISTING BEARINGS PROCEDURE

1. The Contractor shall submit for approval by the Engineer, plans for jacking and removing existing bearings prior to commencing any related work.
2. Jacking and removing existing bearings shall be done after existing deck removal is completed.
3. The Maximum Dead Load Reaction with deck removed (per bearing) at each abutment is 2.2 kips. Minimum jack capacity is 4 kips.
4. The Maximum Dead Load Reaction with deck removed (per bearing) at piers 1 and 3 is 10.5 kips. Minimum jack capacity is 16 kips.
5. The new bearings assemblies shall be in place and the jacks shall be lowered prior to forming and pouring the new deck.



TYPE I BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.

*** TABLE OF "t" DIMENSIONS**

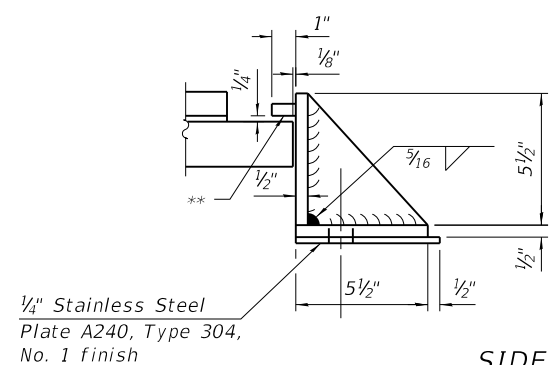
Beam No.	North Abutment	South Abutment
1	3/8"	1/2"
2	-	1/2"
3	-	3/16"
4	3/4"	1 3/16"
5	1 1/16"	1 7/16"

* The fill *t* thicknesses shown above are based on survey data to match the height of the existing bearing assemblies. Prior to ordering any material, the Contractor shall field verify all existing bearing heights and required fill plate thicknesses. The Contractor may adjust the height of the steel extensions in lieu of providing the above fill plates.

BILL OF MATERIAL
(Abutments)

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	10
Anchor Bolt, 3/4"	Each	20
Furnishing and Erecting Structural Steel	Pound	1670
Jack and Remove Existing Bearings	Each	10

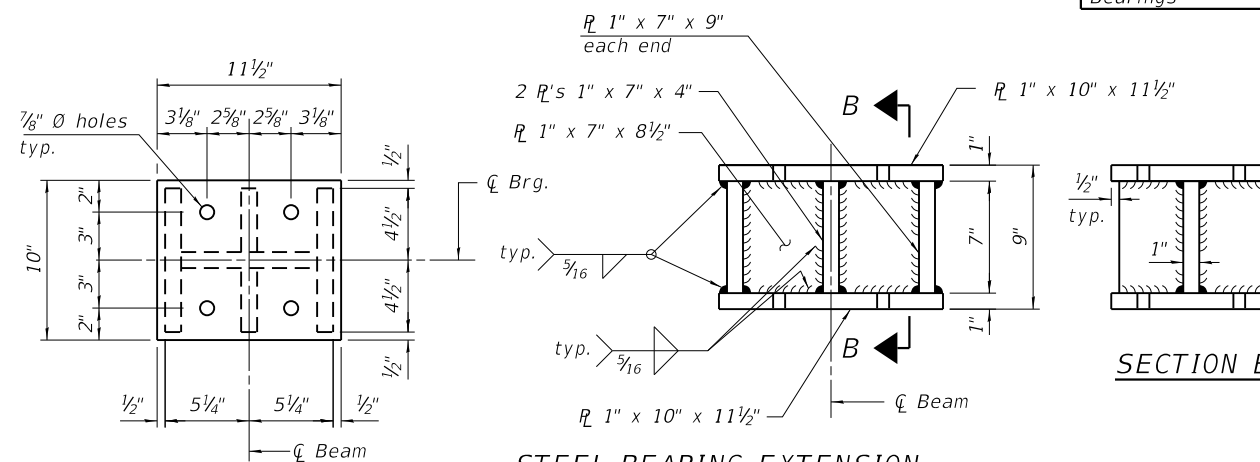
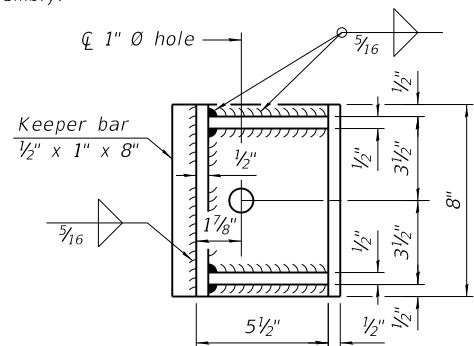
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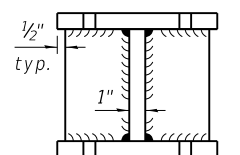
SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

** Steel shims shall be installed (tight fit required) into opening prior to starting the deck pour and removed immediately after completion. Cost included with Furnishing and Erecting Structural Steel.



STEEL BEARING EXTENSION



SECTION B-B

design firm
no. 184001036



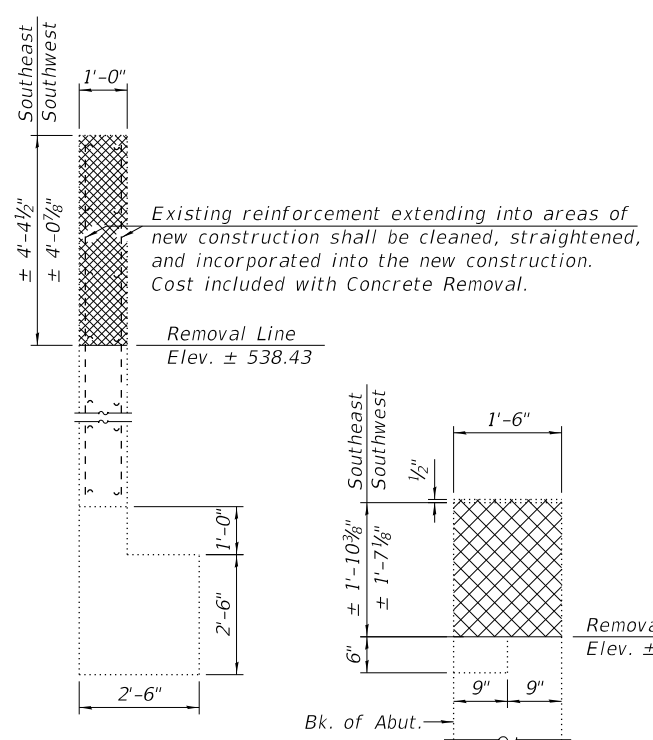
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FILE NAME - 0030042-76L43.dgn	CHECKED - SDS	REVISED -
PLOT SCALE - 0:2" = 1 in.	DRAWN - DLH	REVISED -
PLOT DATE - 1/23/2018	CHECKED - SBC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BEARING DETAILS - ABUTMENTS
STRUCTURE NO. 003-0042**

SHEET NO. 12 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	26
* BOND AND MADISON			CONTRACT NO. 76L43	

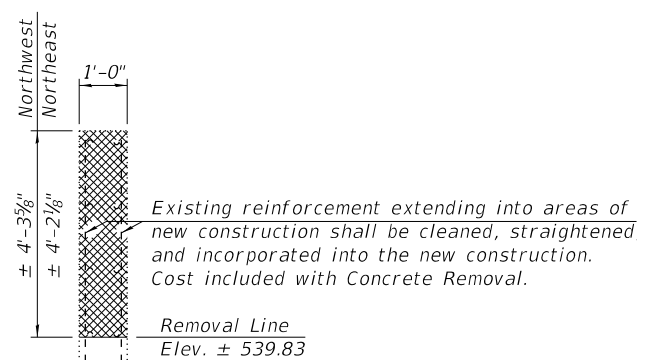


SECTION A-A

SECTION B-B

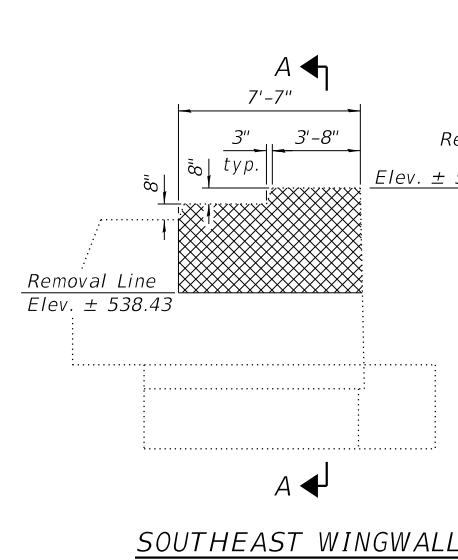
Notes:

1. Elevations shown herein have been determined from existing survey data and are subject to field verification and adjustment during construction.
2. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.
3. Existing reinforcement bars not extending into new construction shall be cut off, ground flush, and sealed with epoxy. Cost included with Concrete Removal.

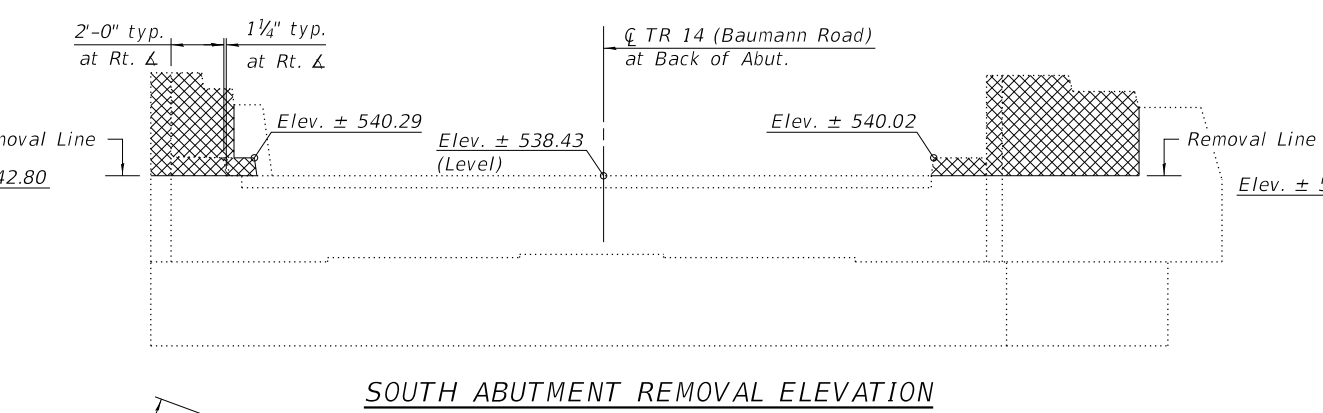


SECTION A-A

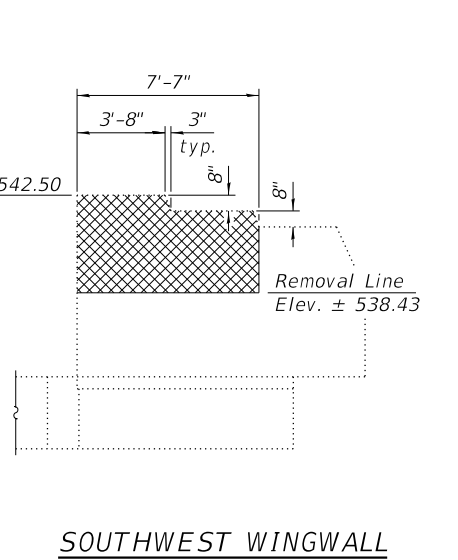
SECTION B-B



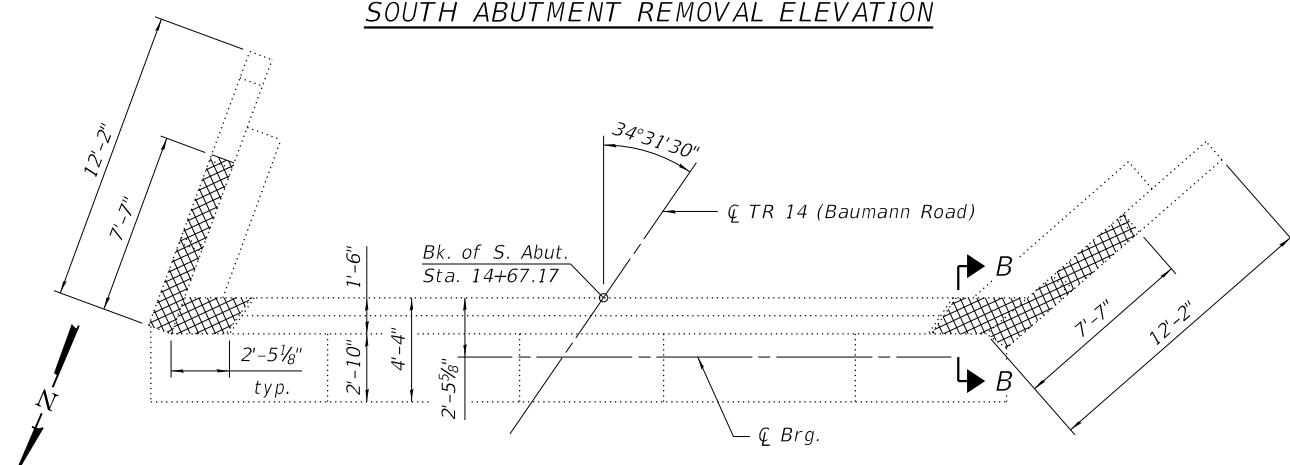
SOUTHEAST WINGWALL



SOUTH ABUTMENT REMOVAL ELEVATION



SOUTHWEST WINGWALL

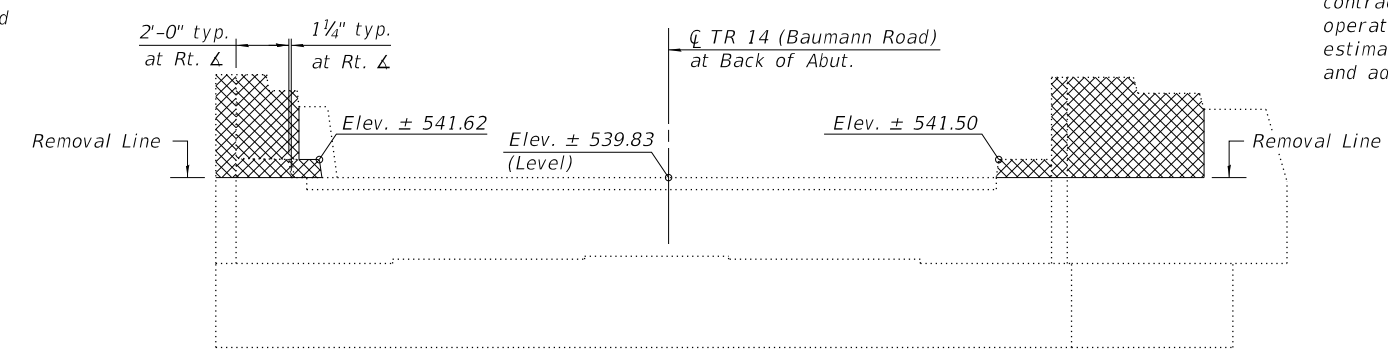


SOUTH ABUTMENT REMOVAL PLAN

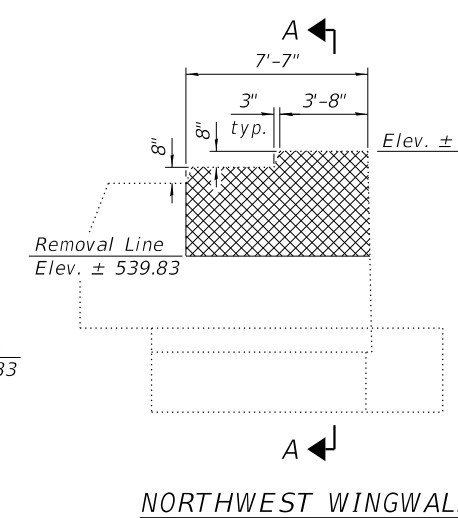
BILL OF MATERIAL

Item	Unit	Total
* Concrete Removal	Cu. Yd.	5.4

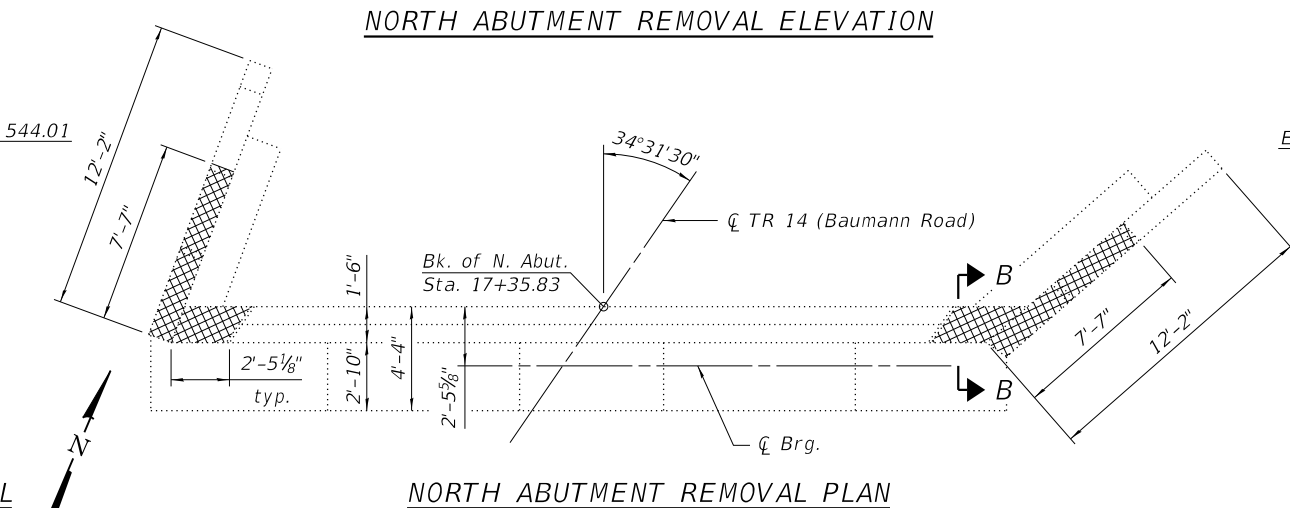
* Concrete removal quantities have been determined from existing plan data. The previous repair contract was suspended during concrete removal operations. Quantities and limits shown herein are estimated. Actual quantities shall be determined and adjusted in the field by the Engineer.



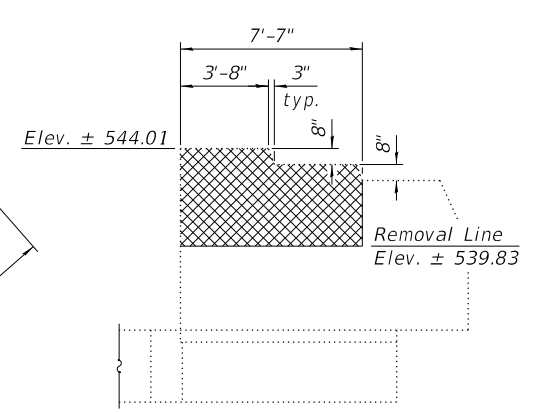
NORTH ABUTMENT REMOVAL ELEVATION



NORTHWEST WINGWALL

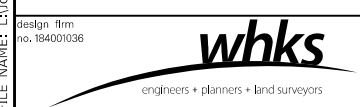


NORTH ABUTMENT REMOVAL PLAN



NORTHEAST WINGWALL

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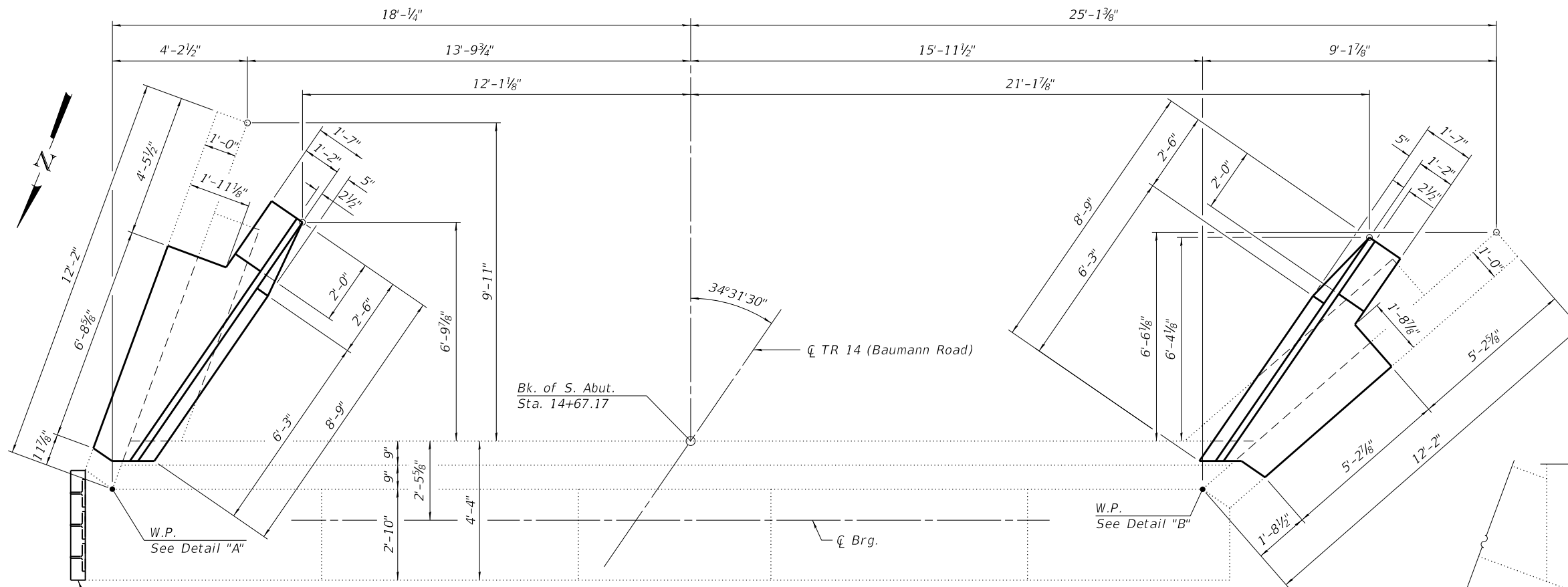
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FILE NAME - 0030042-76L43.dgn	CHECKED - SDS	REVISED -
PLOT SCALE - 0:2" = 1'	DRAWN - DLH	REVISED -
PLOT DATE - 1/23/2018	CHECKED - SBC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REMOVAL DETAILS
STRUCTURE NO. 003-0042

SHEET NO. 14 OF 18 SHEETS

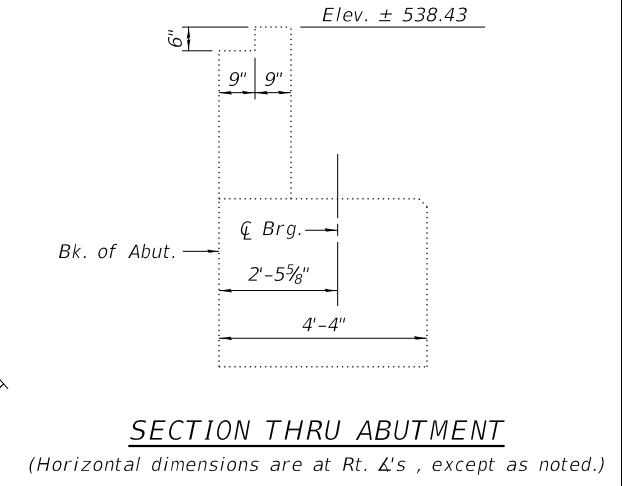
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	28
* BOND AND MADISON			CONTRACT NO. 76L43	
ILLINOIS		FED. AID PROJECT		



PLAN SOUTH ABUTMENT
(Showing Dimensions)

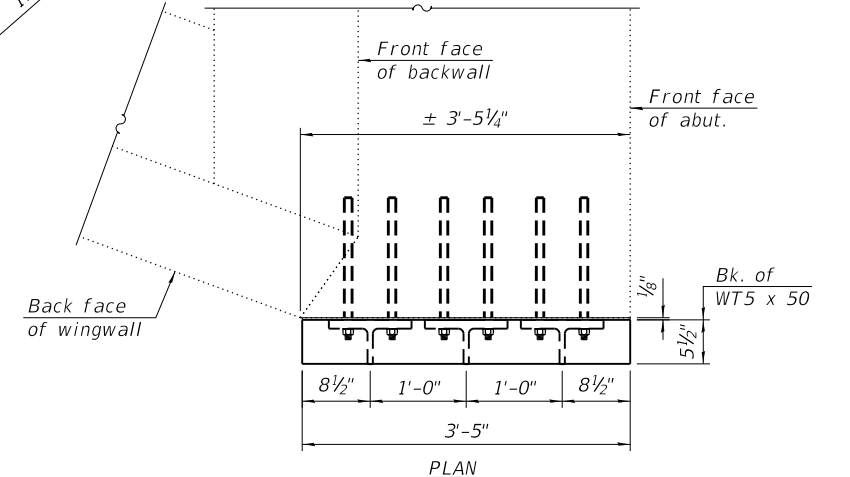
Notes:

1. All structural steel plates and shapes shall conform to the minimum material requirements of AASHTO M270, Gr. 50.
2. All plates, shapes, anchor bolts, nuts, and washers shall be galvanized according to AASHTO M111 or M232 as applicable. Cost included with Furnishing and Erecting Structural Steel.
3. Anchor rods shall be ASTM A307, Gr. A, all-threaded (or an engineer-approved alternate material) for the diameter specified. Cost included with Furnishing and Erecting Structural Steel.
4. Drill and grout anchor rods into existing concrete according to Article 584 of the Standard Specifications. In addition, the chemical adhesive system selected by the Contractor shall be capable of developing a minimum combined resistance of 5.3 kips of vertical shear and 2.9 kips of tension per anchor for the configuration shown. Installation shall conform to the manufacturer's specifications. Cost included with Furnishing and Erecting Structural Steel.
5. One hardened washer shall be required for each oversized hole in WT Section.
6. For additional details, notes, and bill of material, see sheet 16 of 18.

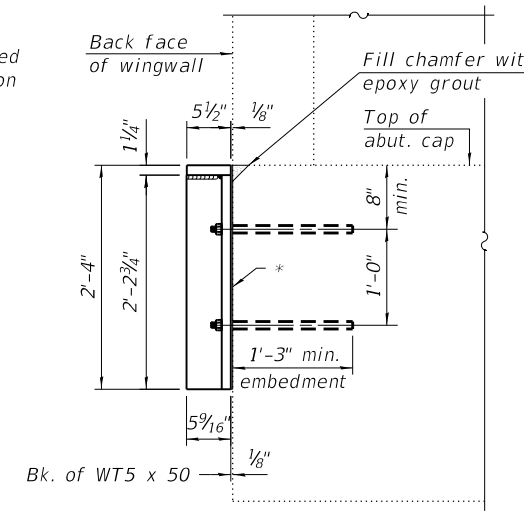


SECTION THRU ABUTMENT

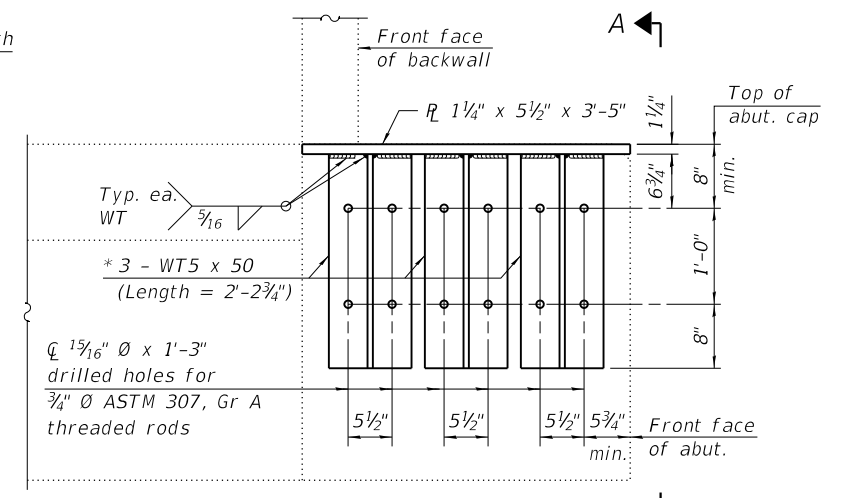
(Horizontal dimensions are at Rt. Δ's, except as noted.)



PLAN



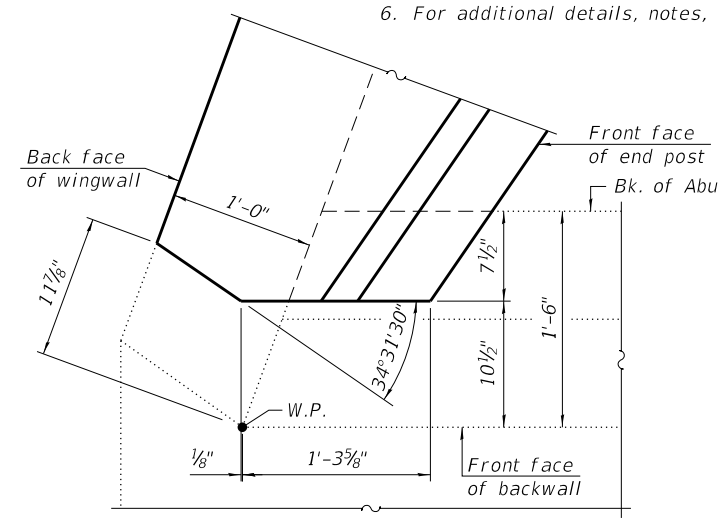
VIEW A-A



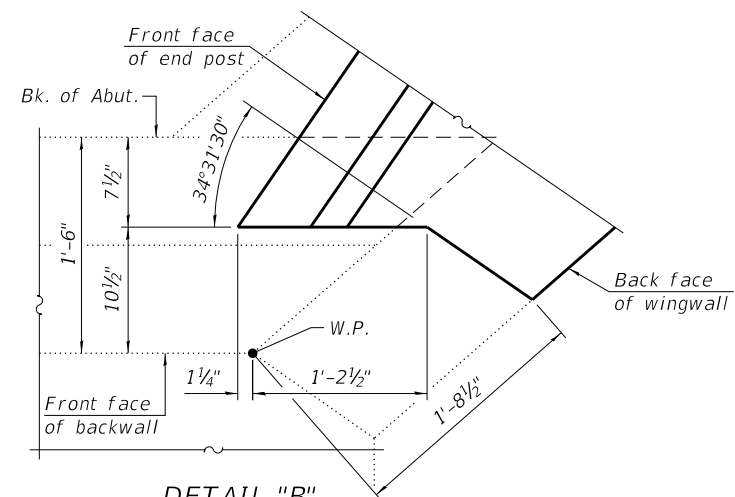
ELEVATION

SEAT EXTENSION (ERS) DETAILS

* A 1/8" x 10 1/4" x 2'-4" elastomeric neoprene pad according to the material properties of Article 1052.02 of the Standard Specifications shall be supplied with each WT5 x 50. Cost included with Furnishing and Erecting Structural Steel.



DETAIL "A"



DETAIL "B"

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT DETAILS
STRUCTURE NO. 003-0042**

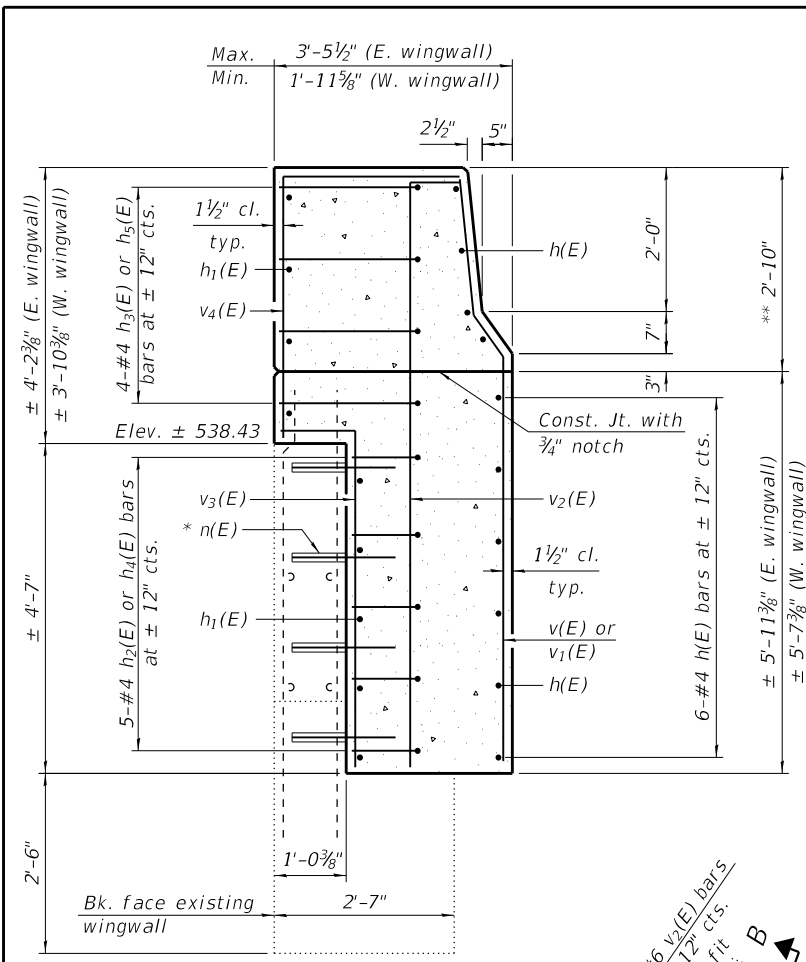
SHEET NO. 15 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	29
* BOND AND MADISON			CONTRACT NO. 76L43	

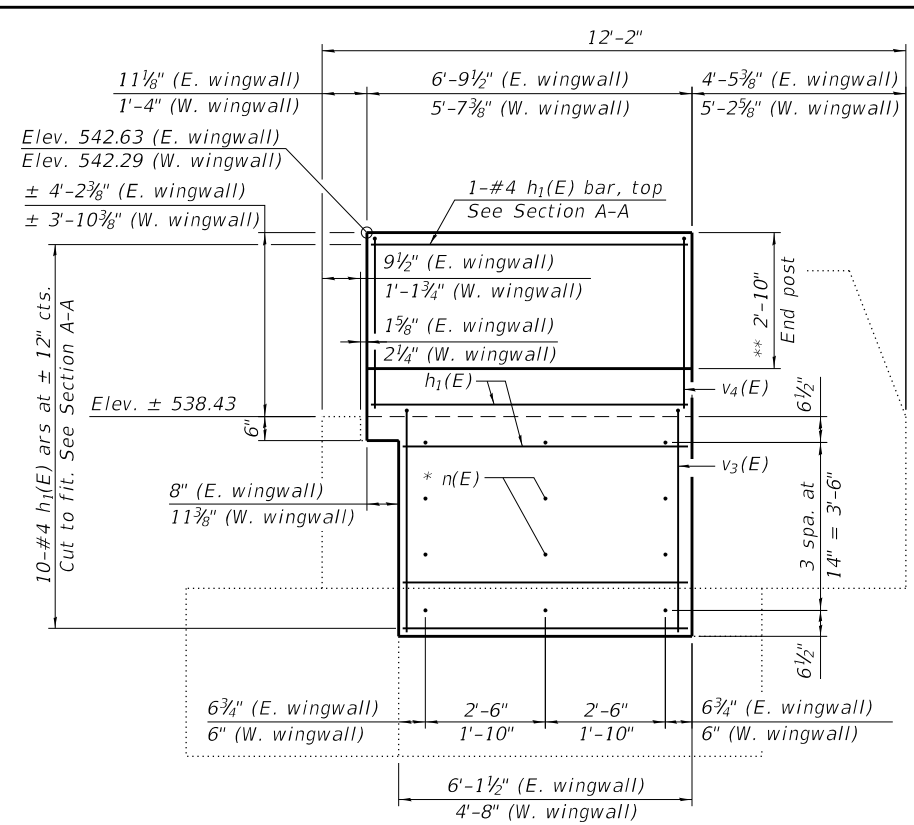
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design firm
no. 184001036
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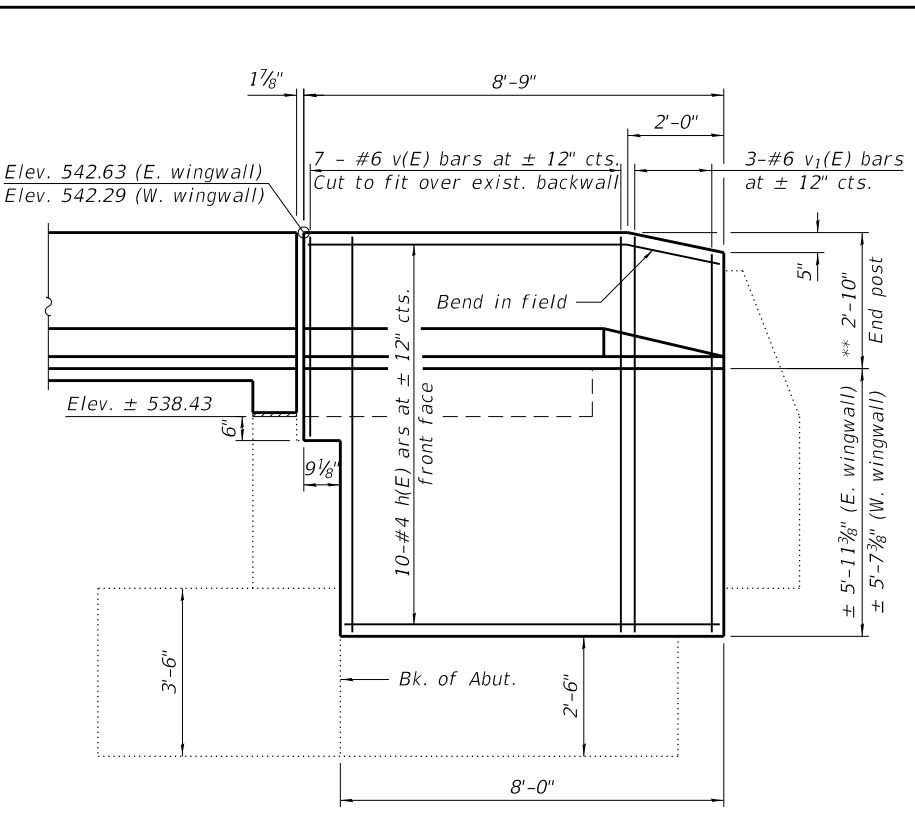
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PLOT SCALE - 0:2" = 1'	DRAWN - DLH	REVISED -
PLOT DATE - 1/23/2018	CHECKED - SBC	REVISED -



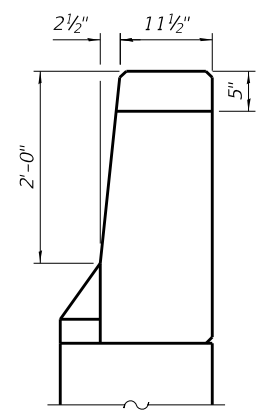
SECTION A-A
(Perpendicular to end post.)



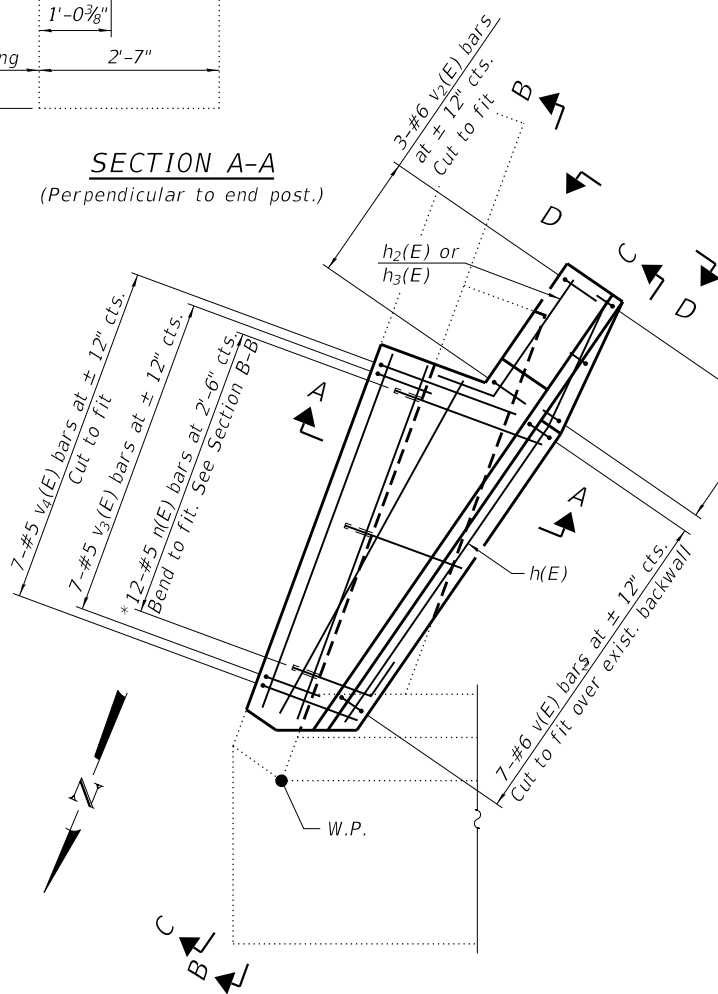
SECTION B-B
(Along front face wingwall.)



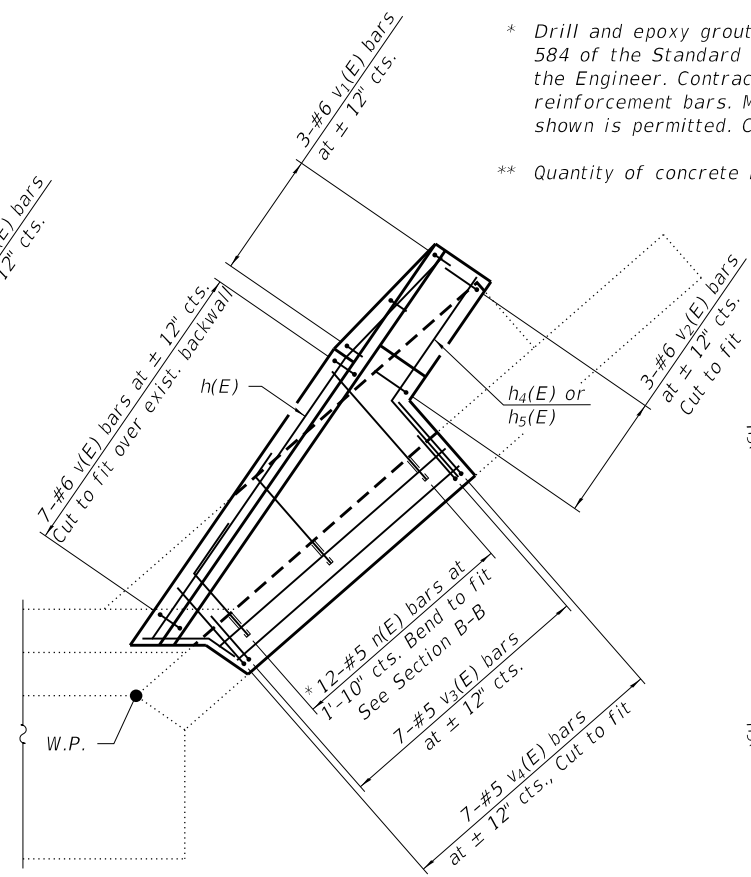
SECTION C-C
(Along front face end post.)



VIEW D-D



PLAN
(Showing Reinforcement)

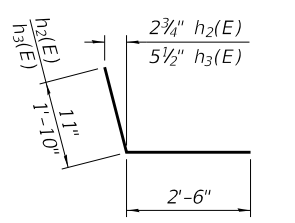


PLAN
(Showing Reinforcement)

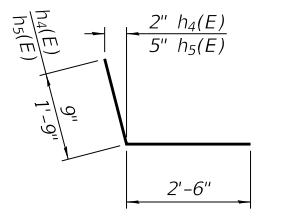
* Drill and epoxy grout n(E) bars into 9" minimum drilled holes according to Article 584 of the Standard Specifications. Method and grout are subject to approval of the Engineer. Contractor shall make efforts to locate and miss existing reinforcement bars. Minor adjustments in the proposed reinforcement configuration shown is permitted. Cost included with Reinforcement Bars, Epoxy Coated.

** Quantity of concrete in the 2'-10" end post is included with Concrete Superstructure.

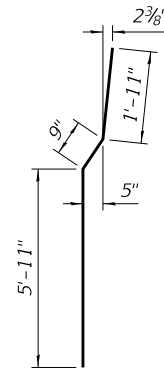
Note:
Controlled Low-Strength Material, Mix 2 will be placed on the roadway side where Structure Excavation is required for the reconfiguration of the abutment wingwalls. Furnished Excavation will be placed on the embankment side. See Roadway Plans.



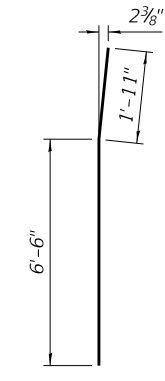
BARS h₂(E) & h₃(E)



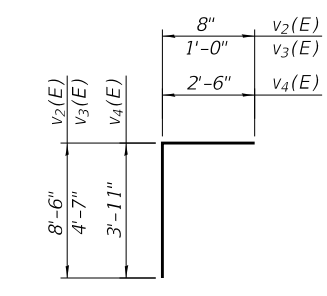
BARS h₄(E) & h₅(E)



BAR v(E)



BAR v₁(E)



BARS v₂(E), v₃(E) & v₄(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#4	8'-6"	—
h ₁ (E)	22	#4	6'-6"	—
h ₂ (E)	5	#4	3'-5"	—
h ₃ (E)	4	#4	4'-4"	—
h ₄ (E)	5	#4	3'-3"	—
h ₅ (E)	4	#4	4'-3"	—
n(E)	24	#5	3'-1"	—
v(E)	14	#6	8'-7"	—
v ₁ (E)	6	#6	8'-5"	—
v ₂ (E)	6	#6	9'-2"	—
v ₃ (E)	14	#5	5'-7"	—
v ₄ (E)	14	#5	6'-5"	—
Structure Excavation		Cu. Yd.	16.8	
Concrete Structures		Cu. Yd.	6.2	
Concrete Superstructure		Cu. Yd.	3.8	
Furnishing and Erecting Structural Steel		Pound	450	
Reinforcement Bars, Epoxy Coated		Pound	850	
Controlled Low Strength Material		Cu. Yd.	14.5	

**

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 design firm
 no. 184001036



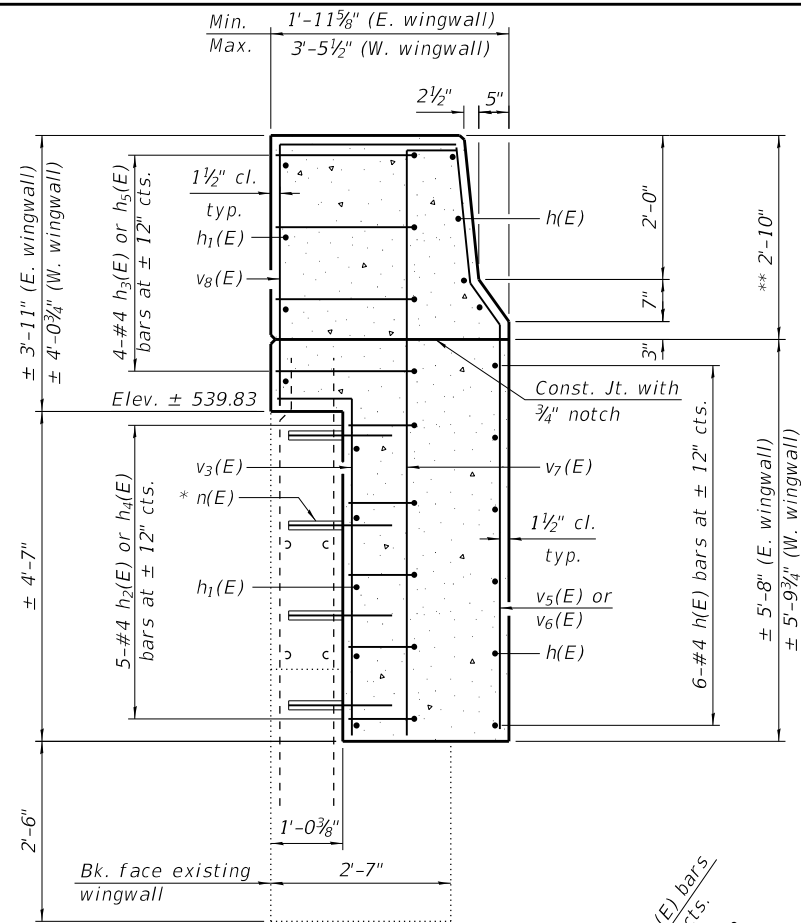
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PLOT SCALE - 0:2" = 1'	DRAWN - DLH	REVISED -
PLOT DATE - 1/23/2018	CHECKED - SBC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

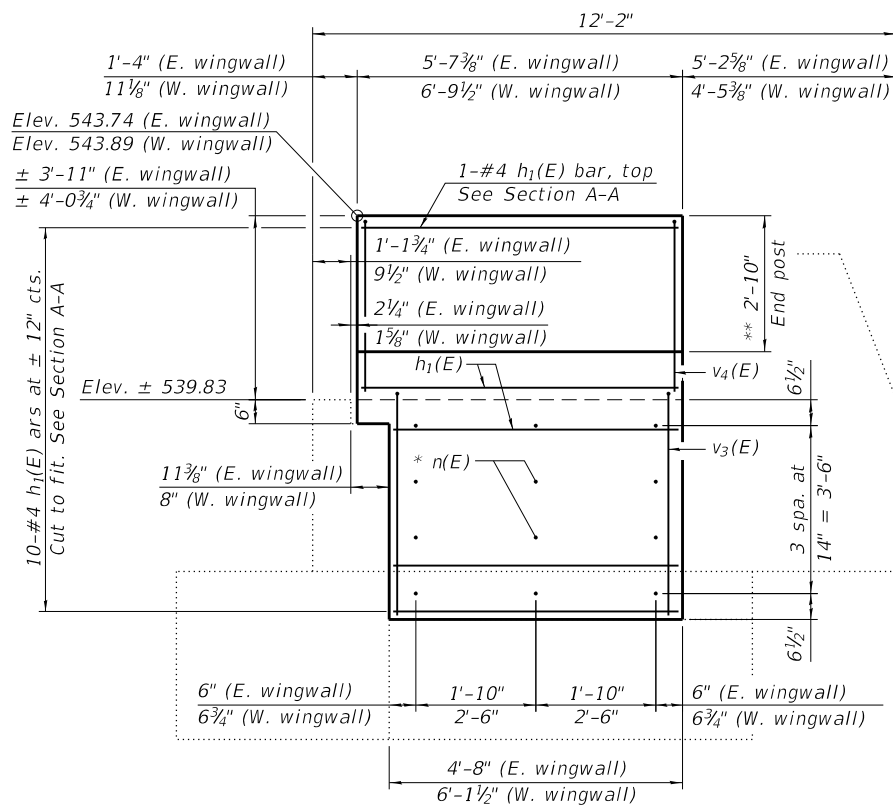
SOUTH ABUTMENT DETAILS
STRUCTURE NO. 003-0042

SHEET NO. 16 OF 18 SHEETS

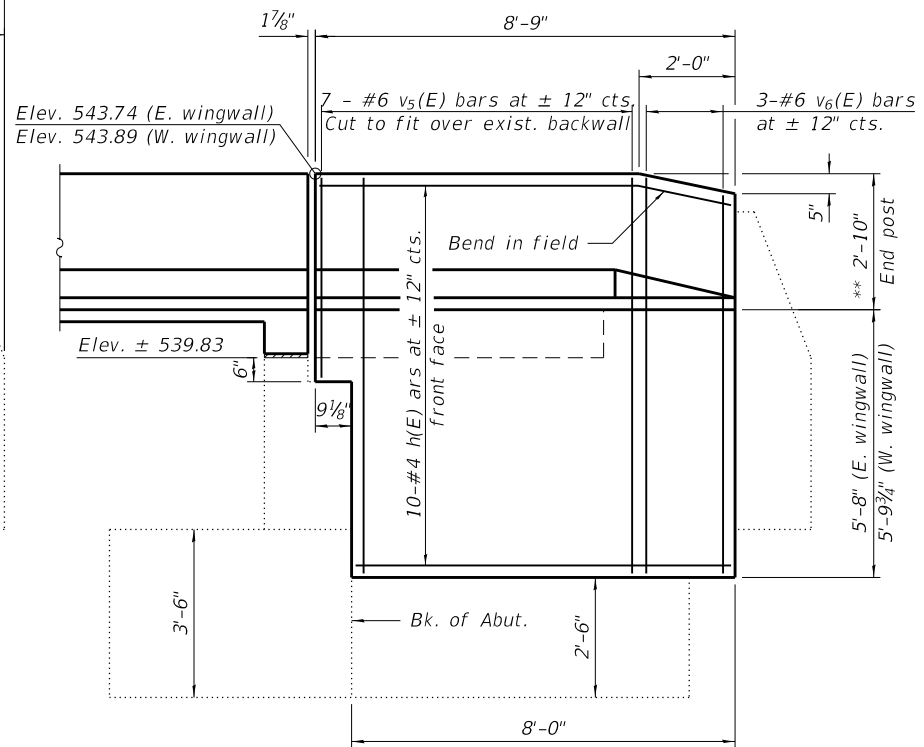
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2		46	30
* BOND AND MADISON			CONTRACT NO. 76L43	
ILLINOIS		FED. AID PROJECT		



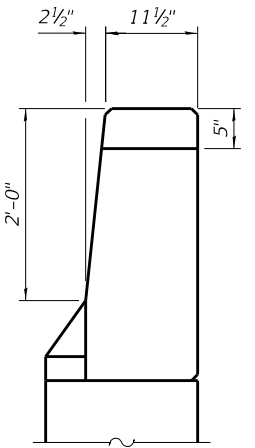
SECTION A-A
(Perpendicular to end post.)



SECTION B-B
(Along front face wingwall.)



SECTION C-C
(Along front face end post.)



VIEW D-D

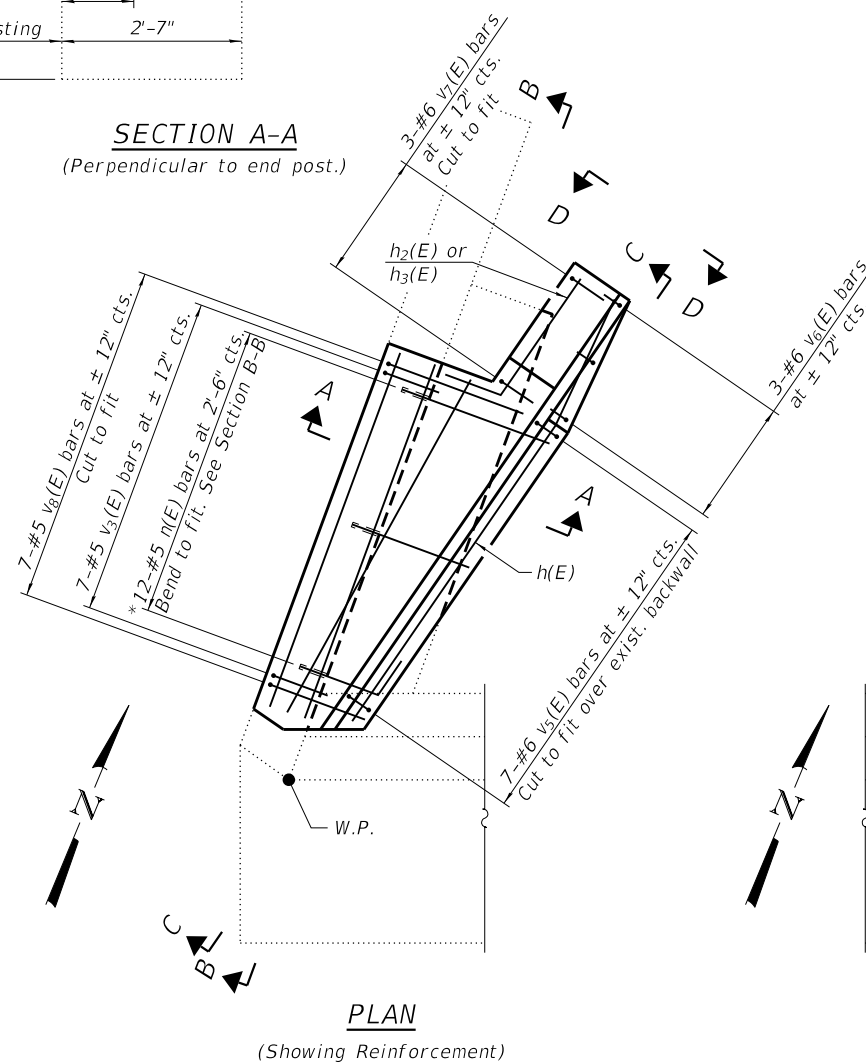
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
h(E)	20	#4	8'-6"	—	
h1(E)	22	#4	6'-6"	—	
h2(E)	5	#4	3'-5"	—	
h3(E)	4	#4	4'-4"	—	
h4(E)	5	#4	3'-3"	—	
h5(E)	4	#4	4'-3"	—	
n(E)	24	#5	3'-1"	—	
v3(E)	14	#5	5'-7"	┘	
v5(E)	14	#6	8'-5"	┘	
v6(E)	6	#6	8'-3"	┘	
v7(E)	6	#6	9'-1"	┘	
v8(E)	14	#5	6'-4"	┘	
Structure Excavation				Cu. Yd.	16.9
Concrete Structures				Cu. Yd.	6.1
Concrete Superstructure				Cu. Yd.	3.8
Furnishing and Erecting Structural Steel				Pound	450
Reinforcement Bars, Epoxy Coated				Pound	840
Controlled Low Strength Material				Cu. Yd.	14.6

* Drill and epoxy grout n(E) bars into 9" minimum drilled holes according to Article 584 of the Standard Specifications. Method and grout are subject to approval of the Engineer. Contractor shall make efforts to locate and miss existing reinforcement bars. Minor adjustments in the proposed reinforcement configuration shown is permitted. Cost included with Reinforcement Bars, Epoxy Coated.

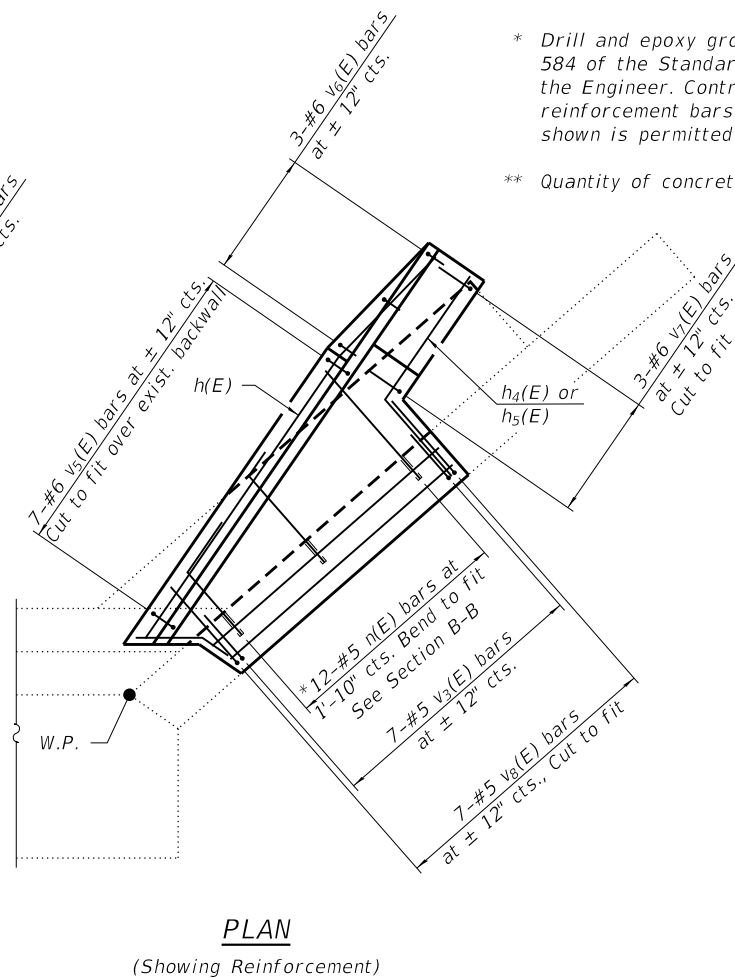
** Quantity of concrete in the 2'-10" end post is included with Concrete Superstructure.

Note:
Controlled Low-Strength Material, Mix 2 will be placed on the roadway side where Structure Excavation is required for the reconfiguration of the abutment wingwalls. Furnished Excavation will be placed on the embankment side. See Roadway Plans.



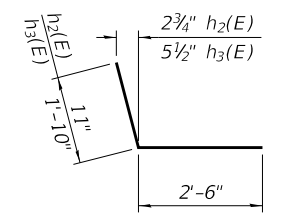
PLAN

(Showing Reinforcement)

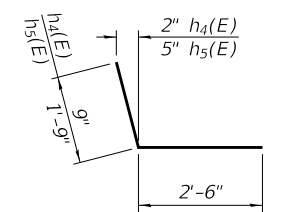


PLAN

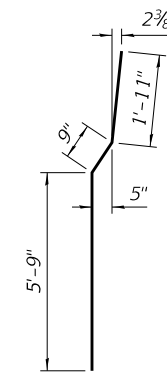
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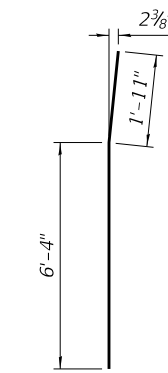
BARS h2(E) & h3(E)



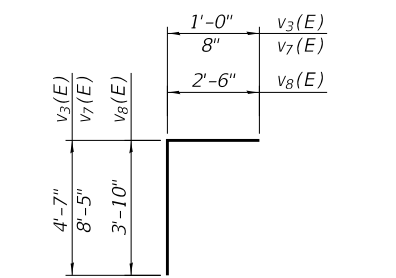
BARS h4(E) & h5(E)



BAR v5(E)



BAR v6(E)



BARS v3(E), v7(E) & v8(E)

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FILE NAME: L:\Jobs\DOT_D-818165-PTB_176-02218165-03_Baumann Rot\CADD\CADD Sheets\0030042-76L43.dgn

design firm
no. 184001036



USER NAME - dheberling
FILE NAME - 0030042-76L43.dgn
PLOT SCALE - 0:2" = 1'
PLOT DATE - 1/23/2018

DESIGNED - SBC
CHECKED - SDS
DRAWN - DLH
CHECKED - SBC

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS
STRUCTURE NO. 003-0042

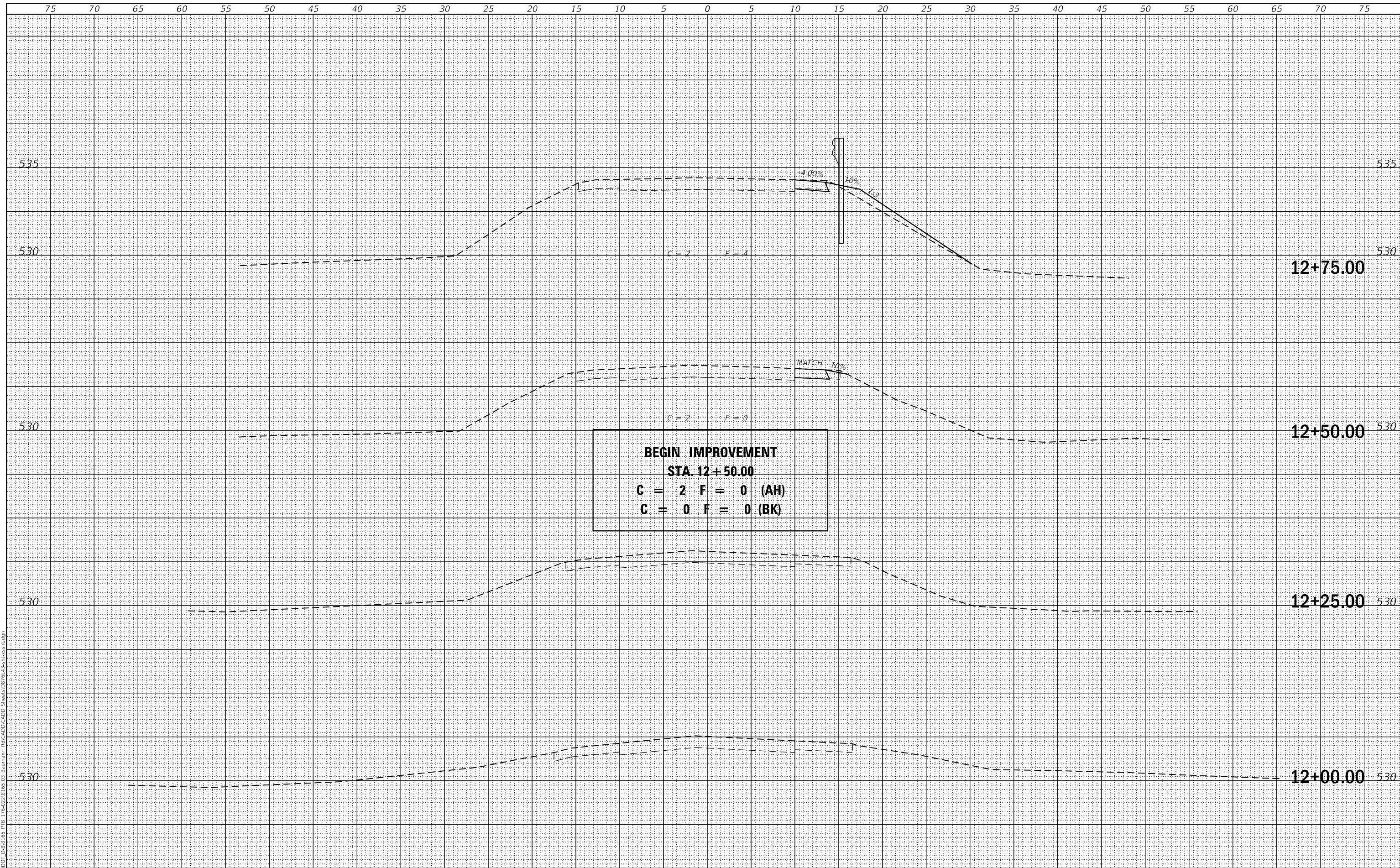
SHEET NO. 18 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2		46	32
* BOND AND MADISON			CONTRACT NO. 76L43	

ILLINOIS FED. AID PROJECT

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

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



BEGIN IMPROVEMENT
STA. 12+50.00
C = 2 F = 0 (AH)
C = 0 F = 0 (BK)

USER NAME =	SOPERATORS	DESIGNED -	RKA	REVISED	
		CHECKED -	SDS	REVISED	
PLOT SCALE =	=\$SCALES	DRAWN -	GSI	REVISED	
PLOT DATE =	1/23/2018	CHECKED -	RKA	REVISED	

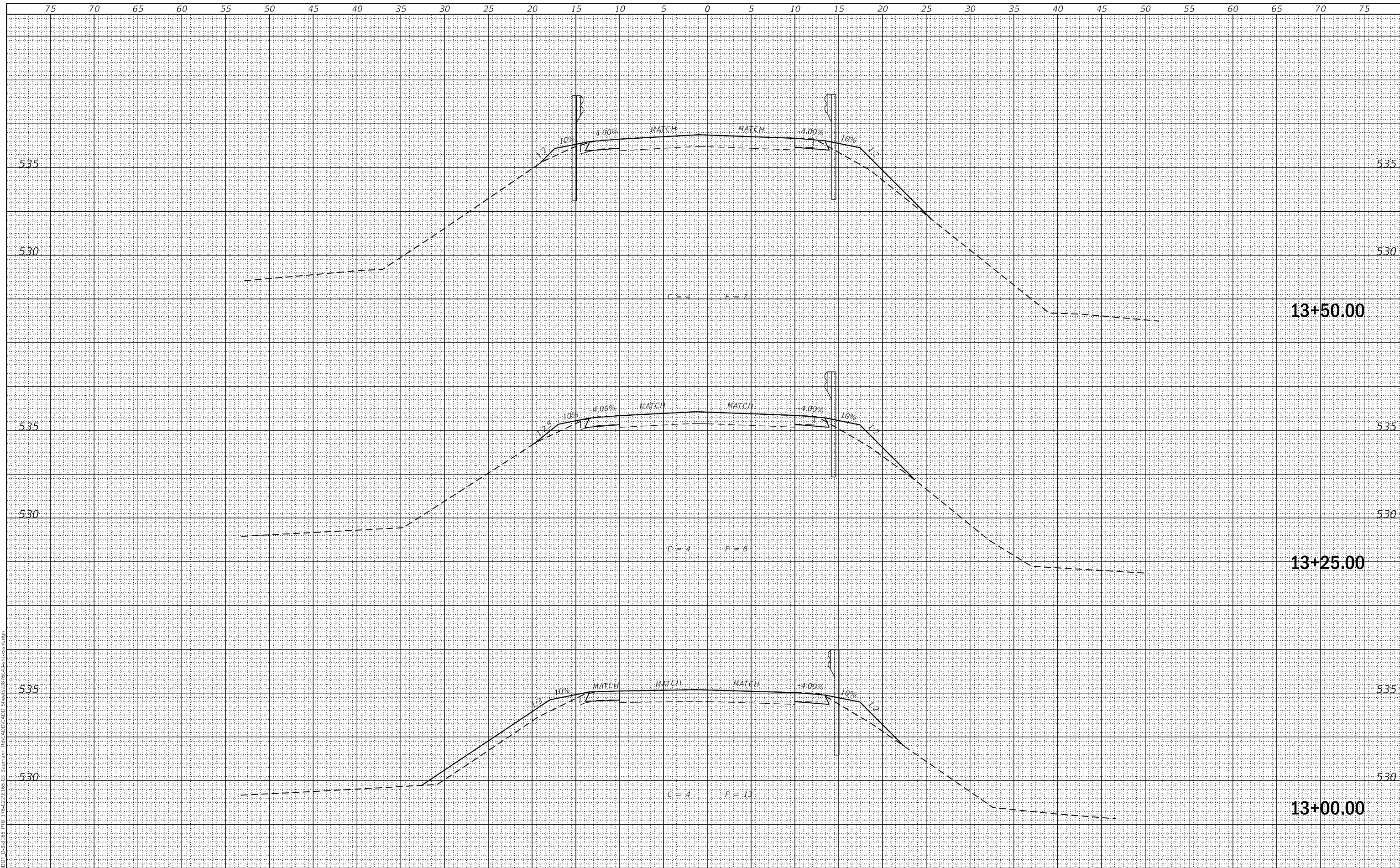
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
I-70 UNDER BAUMANN ROAD	
SCALE: 1" = 10'	SHEET 1 OF 14 SHEETS
STA. 12+00.00	TO STA. 12+75.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	33
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				

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

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



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 PLOT DATE: 1/23/2018
 PLOT SCALE: 1" = 10'
 USER NAME: SOPERATORS
 DESIGNED: RKA
 CHECKED: SDS
 DRAWN: GSI
 CHECKED: RKA

DESIGNED	-	RKA	REVISED	
CHECKED	-	SDS	REVISED	
DRAWN	-	GSI	REVISED	
CHECKED	-	RKA	REVISED	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 I-70 UNDER BAUMANN ROAD

SCALE: 1" = 10' SHEET 2 OF 14 SHEETS STA. 13+00.00 TO STA. 13+50.00

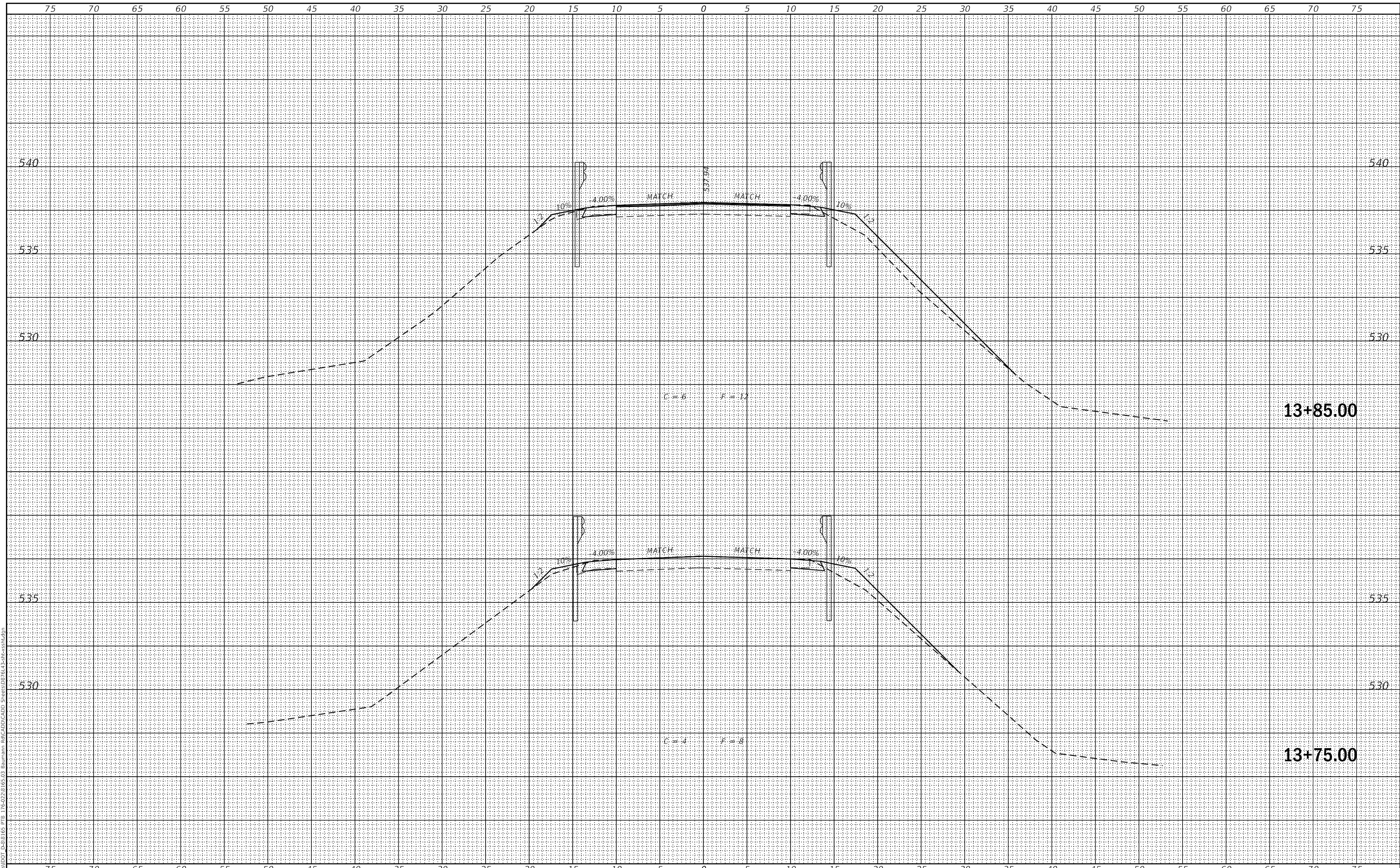
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	34
* BOND, MADISON			CONTRACT NO. 76L43	

ILLINOIS FED. AID PROJECT

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

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

MODEL: Default
 FILE NAME: I:\projects\DOT_2518165_PFB_176-022.8 165-03_Baumman Rd\CADD\CADD_Sheets\0776143-arhc-est.dgn



design firm
 no. 184001036
whks
 engineers + planners + land surveyors

USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = \$SCALES	DRAWN - GSI	REVISED
PLOT DATE = 1/23/2018	CHECKED - RKA	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

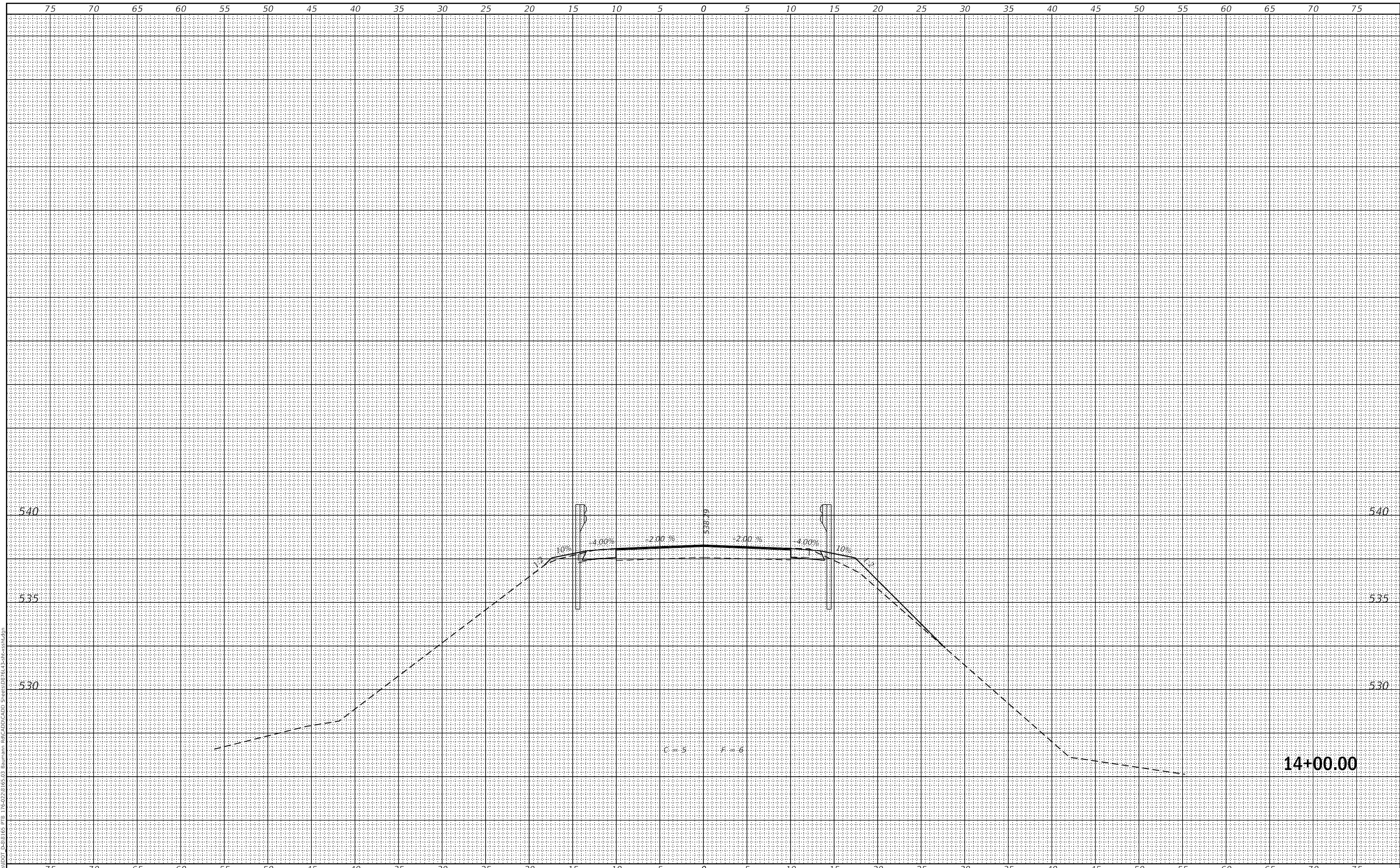
**CROSS SECTIONS
 I-70 UNDER BAUMANN ROAD**
 SCALE: 1" = 10'
 SHEET 3 OF 14 SHEETS
 STA. 13+75.00 TO STA. 13+85.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	35
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREA'S	TEMPLATE		
CHECKED	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREA'S	TEMPLATE		
CHECKED	AREAS		
	CHECKED		

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USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = \$SCALES	DRAWN - GSI	REVISED
PLOT DATE = 1/23/2018	CHECKED - RKA	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

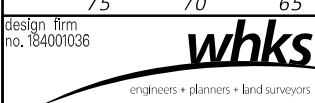
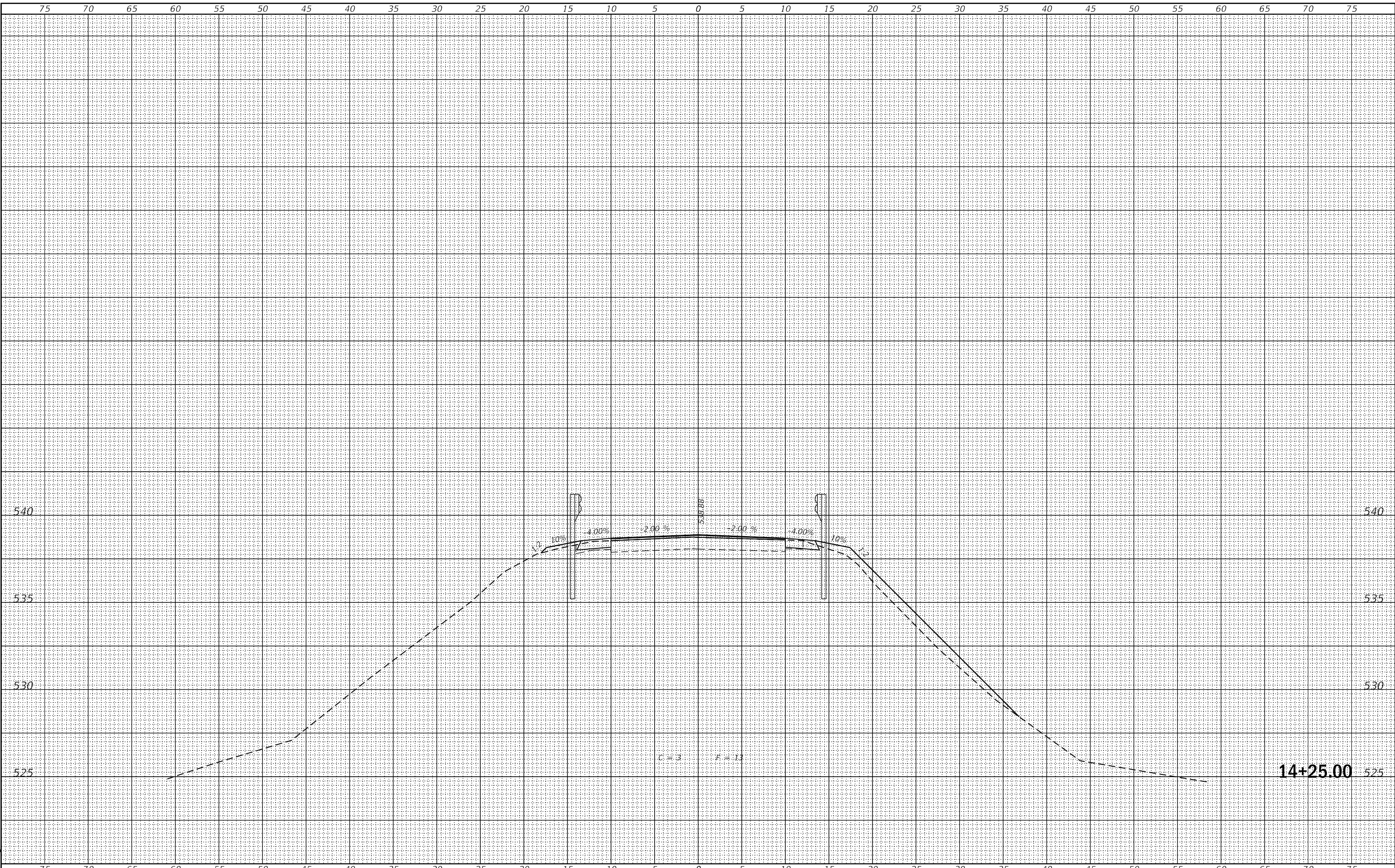
**CROSS SECTIONS
 I-70 UNDER BAUMANN ROAD**
 SCALE: 1" = 10'
 SHEET 4 OF 14 SHEETS
 STA. 14+00.00 TO STA. 14+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	36
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREA'S	TEMPLATE	
CHECKED	AREAS	
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREA'S	TEMPLATE	
CHECKED	AREAS	
	CHECKED	

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 Design firm no. 184001036



USER NAME =	SOPERATORS	DESIGNED -	RKA	REVISED	
		CHECKED -	SDS	REVISED	
PLOT SCALE =	=\$\$CALES	DRAWN -	GSI	REVISED	
PLOT DATE =	1/23/2018	CHECKED -	RKA	REVISED	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 I-70 UNDER BAUMANN ROAD**

SCALE: 1" = 10' SHEET 5 OF 14 SHEETS STA. 14+25.00 TO STA. 14+25.00

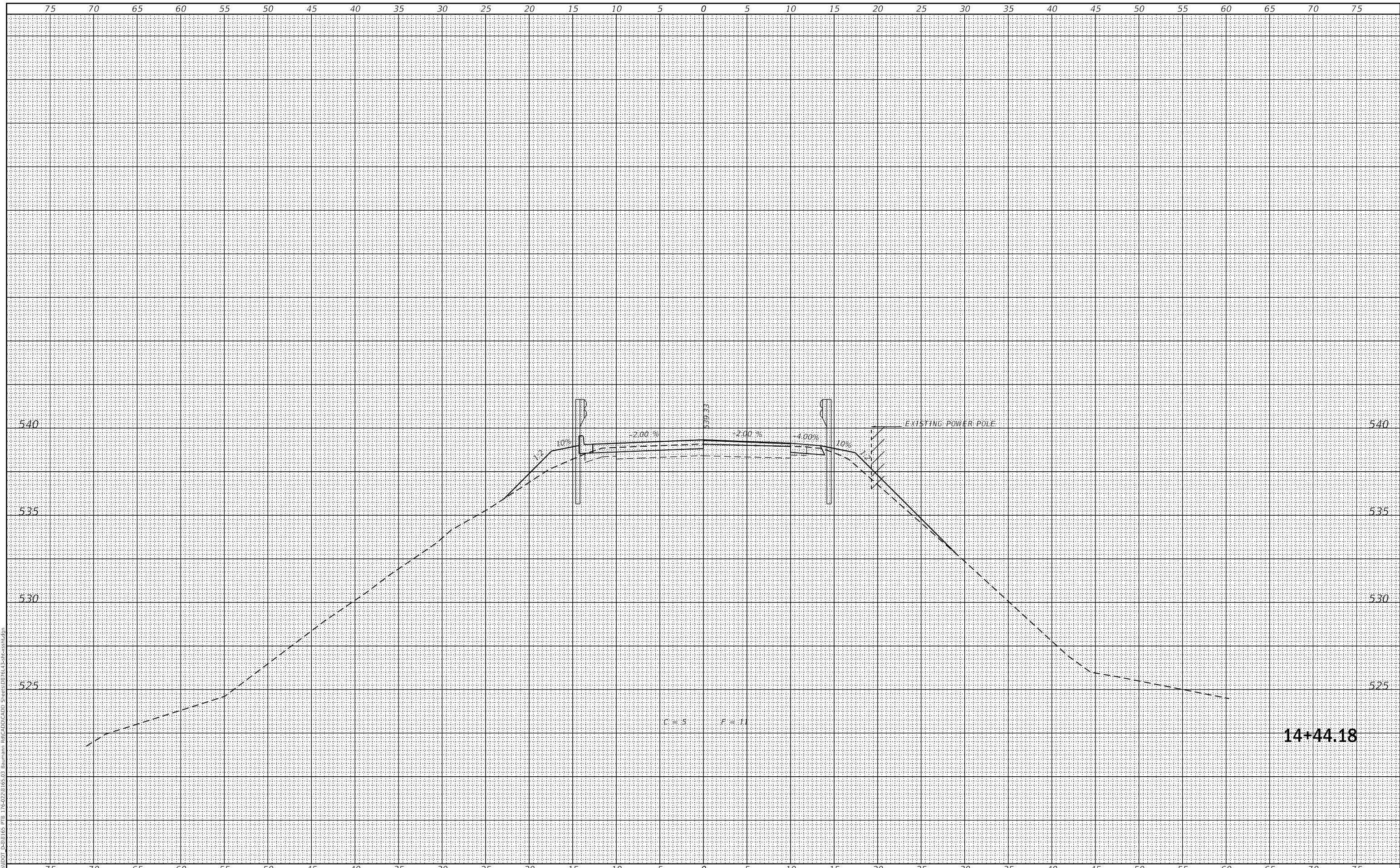
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	37
* BOND, MADISON			CONTRACT NO. 76L43	

ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREA'S CHECKED	TEMPLATE
	AREA'S CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREA'S CHECKED	TEMPLATE
	AREA'S CHECKED

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USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = \$SCALES	DRAWN - GSI	REVISED
PLOT DATE = 1/23/2018	CHECKED - RKA	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

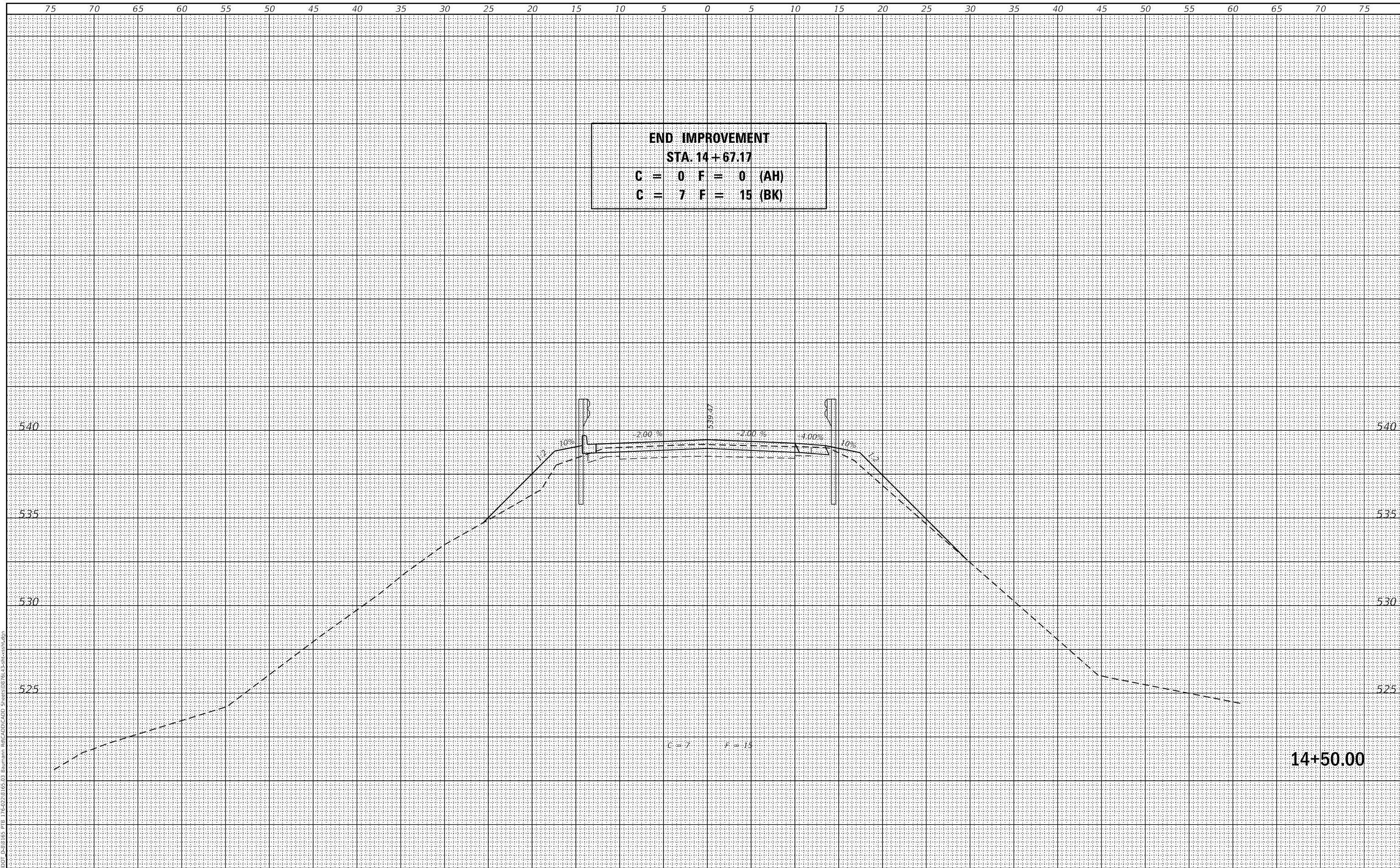
**CROSS SECTIONS
 I-70 UNDER BAUMANN ROAD**
 SCALE: 1" = 10'
 SHEET 6 OF 14 SHEETS
 STA. 14+44.18 TO STA. 14+44.18

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	38
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				

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

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

END IMPROVEMENT
STA. 14+67.17
C = 0 F = 0 (AH)
C = 7 F = 15 (BK)



MODEL: Default
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USER NAME =	SOPERATORS	DESIGNED -	RKA	REVISED	
		CHECKED -	SDS	REVISED	
PLOT SCALE =	=\$SCALES	DRAWN -	GSI	REVISED	
PLOT DATE =	1/23/2018	CHECKED -	RKA	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

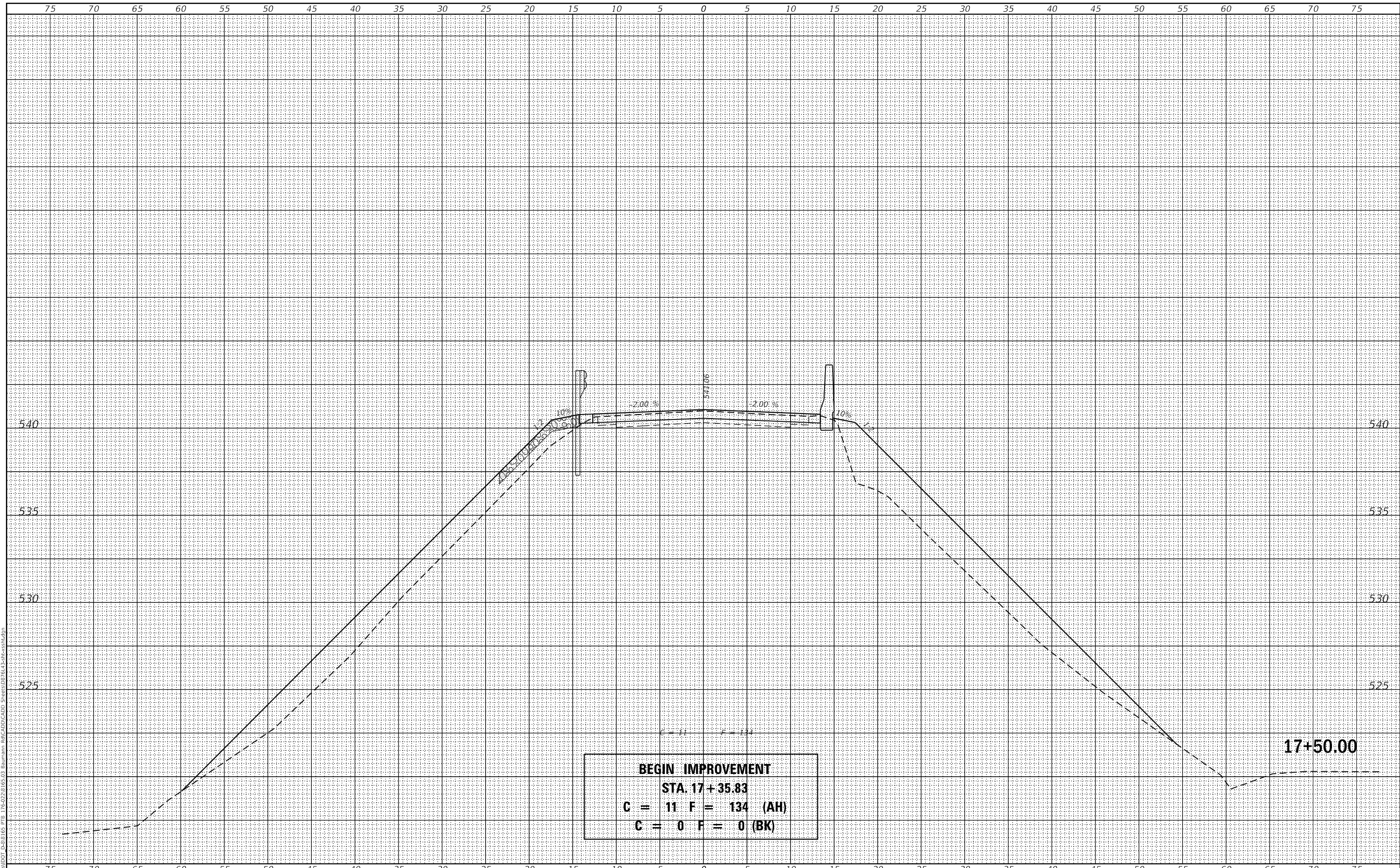
CROSS SECTIONS
I-70 UNDER BAUMANN ROAD
 SCALE: 1" = 10'
 SHEET 7 OF 14 SHEETS
 STA. 14+50.00 TO STA. 14+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	39
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS		FED. AID PROJECT		

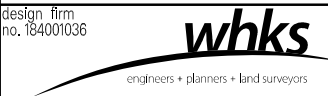
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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

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

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 USER: 184001036
 PLOT DATE: 3/23/2018



BEGIN IMPROVEMENT
 STA. 17+35.83
 C = 11 F = 134 (AH)
 C = 0 F = 0 (BK)



USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = \$SCALES	DRAWN - GSI	REVISED
PLOT DATE = 3/23/2018	CHECKED - RKA	REVISED

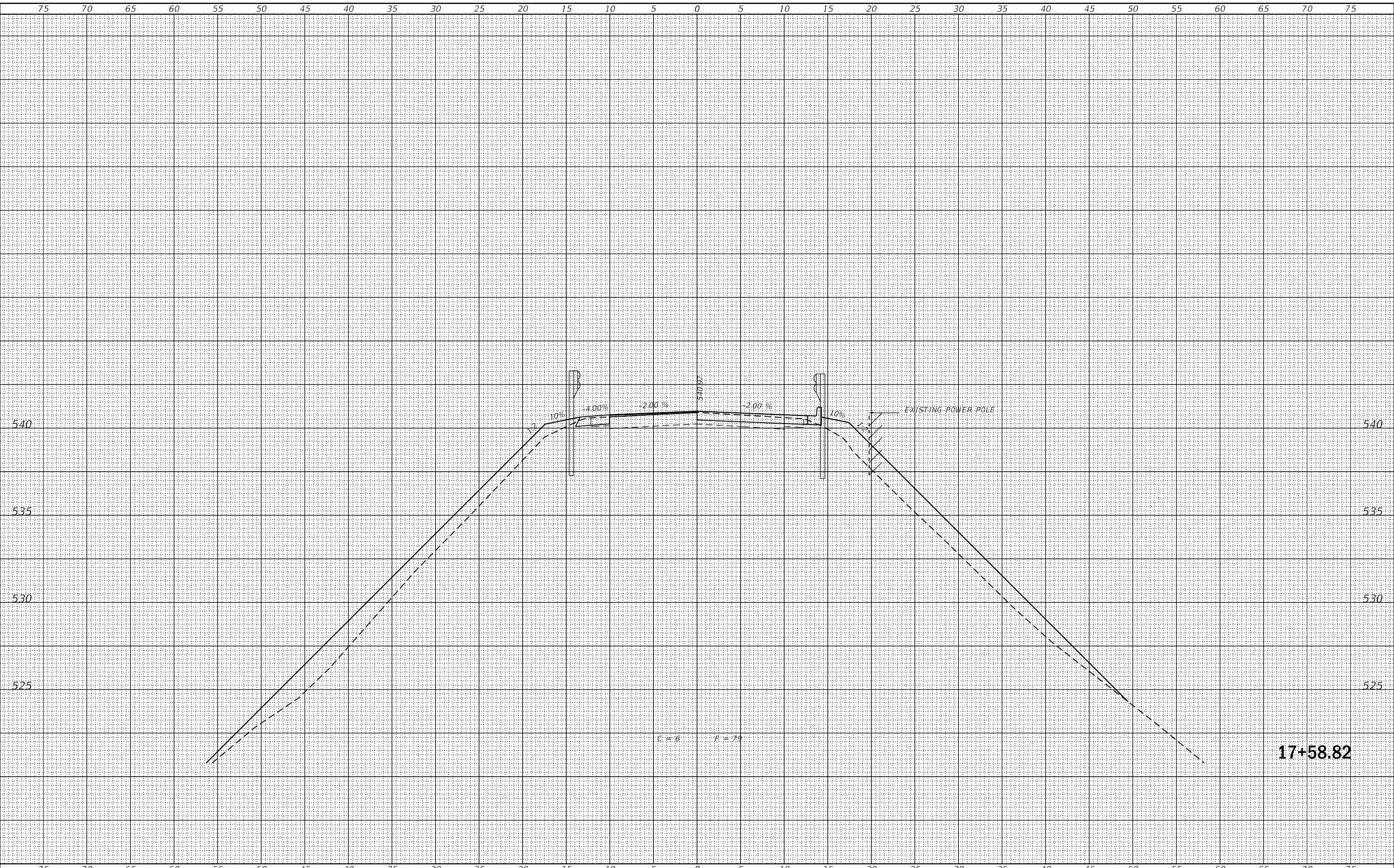
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS		SCALE: 1" = 10'	
I-70 UNDER BAUMANN ROAD		SHEET 8 OF 14 SHEETS	STA. 17+50.00 TO STA. 17+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	40
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				

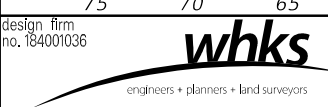
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		



MODEL: Default
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 USER: soperators

USER NAME = soperators	DESIGNED - RKA	REVISED
PLOT SCALE = SCALES	CHECKED - SDS	REVISED
PLOT DATE = 1/23/2018	DRAWN - GSI	REVISED
	CHECKED - RKA	REVISED



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
I-70 UNDER BAUMANN ROAD**

SCALE: 1" = 10' SHEET 9 OF 14 SHEETS STA. 17+58.82 TO STA. 17+58.82

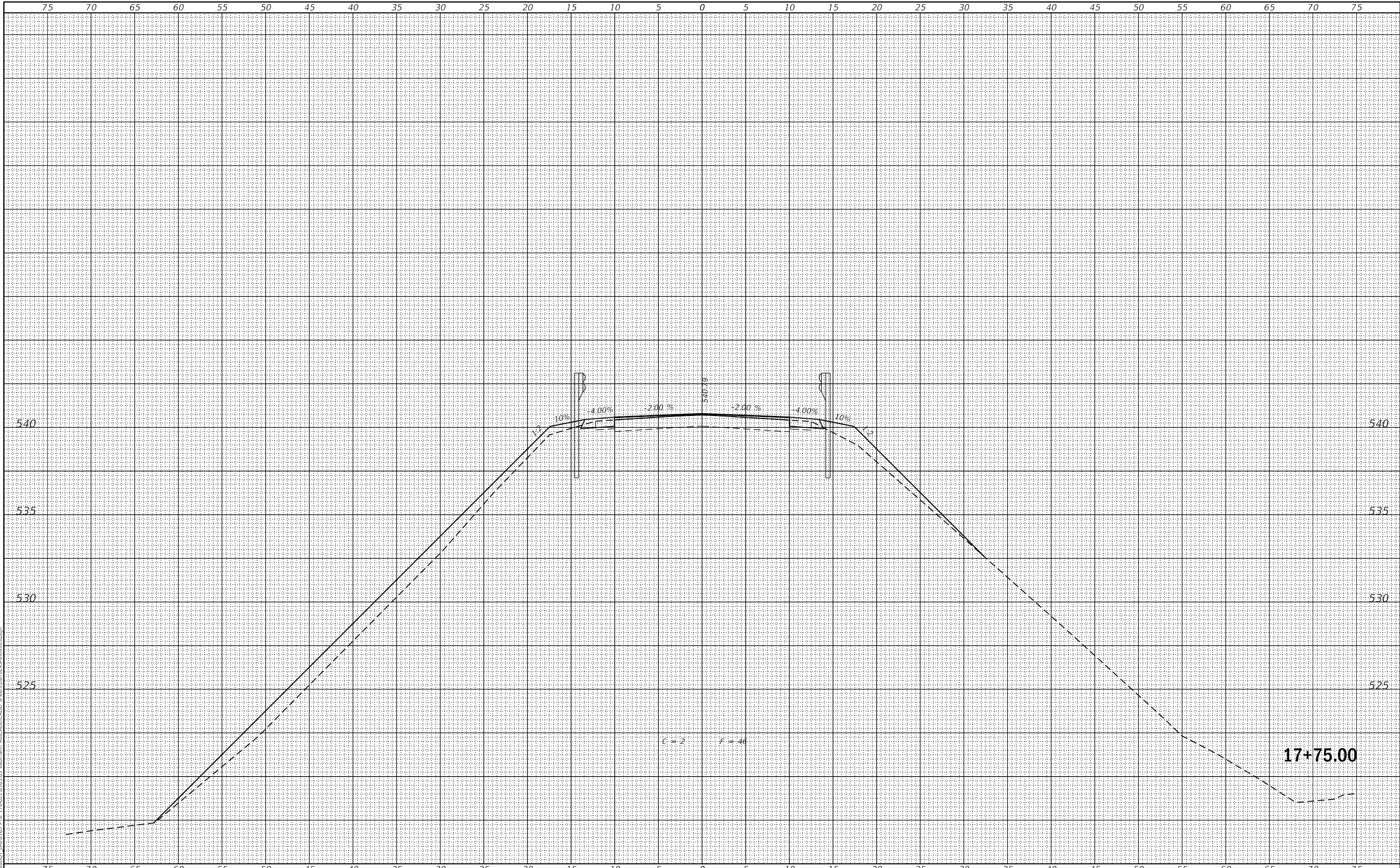
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	41
* BOND, MADISON			CONTRACT NO. 76L43	

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREA'S	TEMPLATE		
CHECKED	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREA'S	TEMPLATE		
CHECKED	AREAS		

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 USER: baumann
 DATE: 1/23/2018



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USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = \$SCALES	DRAWN - GSJ	REVISED
PLOT DATE = 1/23/2018	CHECKED - RKA	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

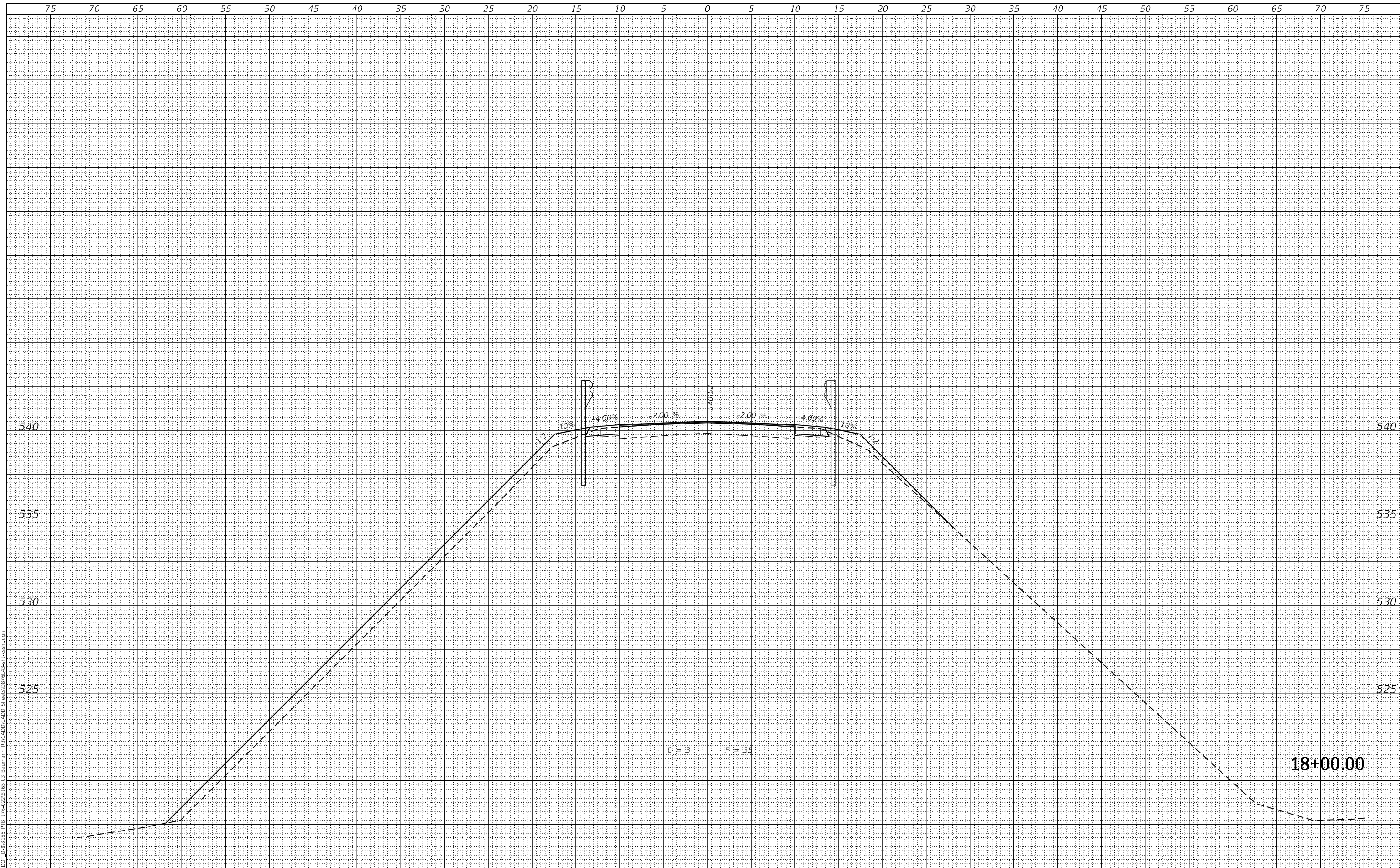
**CROSS SECTIONS
 I-70 UNDER BAUMANN ROAD**

SCALE: 1" = 10' SHEET 10 OF 14 SHEETS STA. 17+75.00 TO STA. 17+75.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	42
* BOND, MADISON		CONTRACT NO. 76L43		
ILLINOIS FED. AID PROJECT				

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREA'S CHECKED	TEMPLATE
	AREA'S CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREA'S CHECKED	TEMPLATE
	AREA'S CHECKED



MODEL: Default
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 design firm
 no. 184001036
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USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = \$SCALES	DRAWN - GSI	REVISED
PLOT DATE = 1/23/2018	CHECKED - RKA	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 I-70 UNDER BAUMANN ROAD**

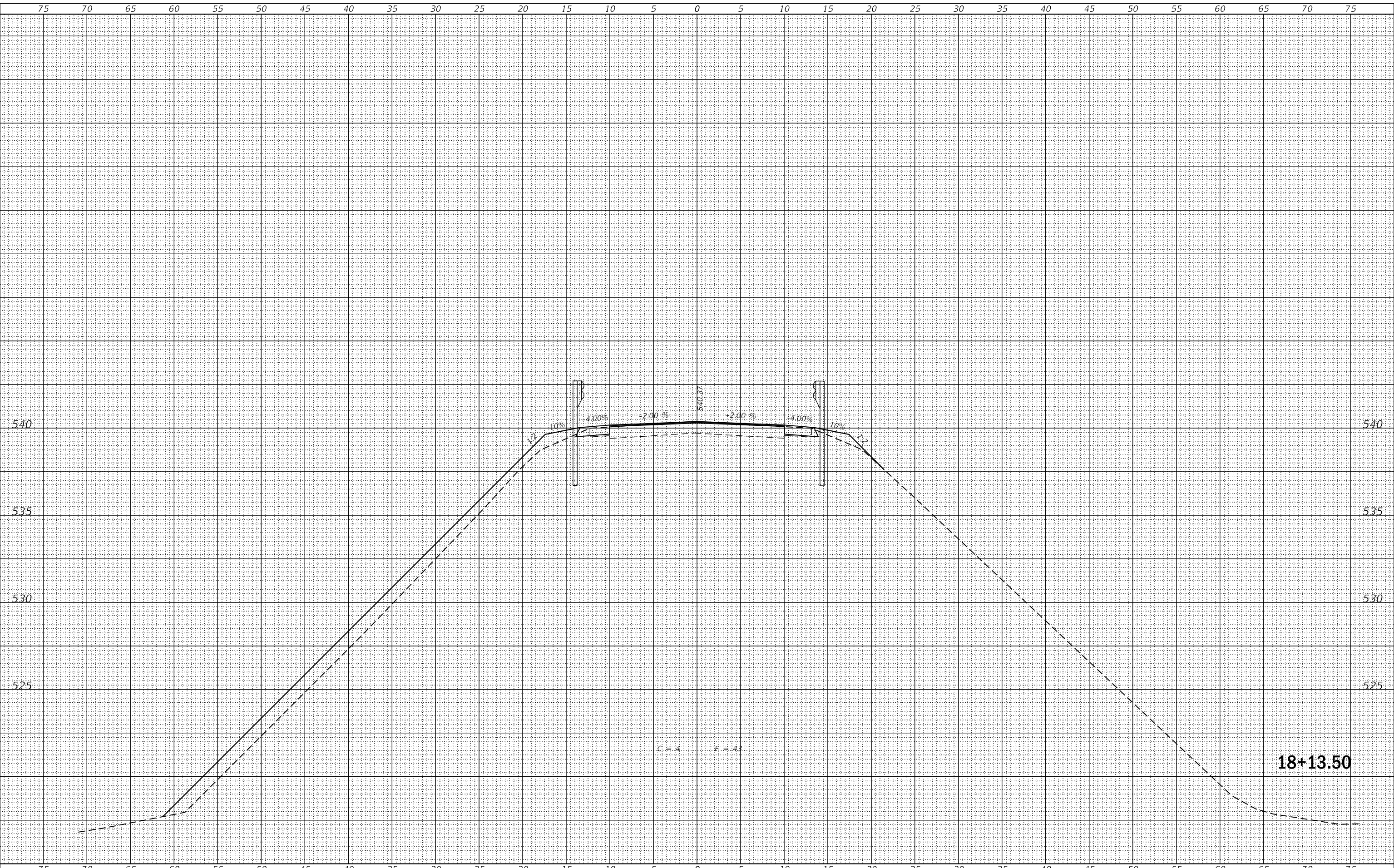
SCALE: 1" = 10' SHEET 11 OF 14 SHEETS STA. 18+00.00 TO STA. 18+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	43
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREA'S	TEMPLATE		
CHECKED	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREA'S	TEMPLATE		
CHECKED	AREAS		

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 PLOT DATE: 1/23/2018
 PLOT SCALE: 1" = 10'
 USER NAME: SOPERATORS
 DESIGNED: RKA
 CHECKED: SDS
 DRAWN: GSI
 CHECKED: RKA



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = 1" = 10'	DRAWN - GSI	REVISED
PLOT DATE = 1/23/2018	CHECKED - RKA	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 I-70 UNDER BAUMANN ROAD
 SCALE: 1" = 10' SHEET 12 OF 14 SHEETS STA. 18+13.50 TO STA. 18+13.50

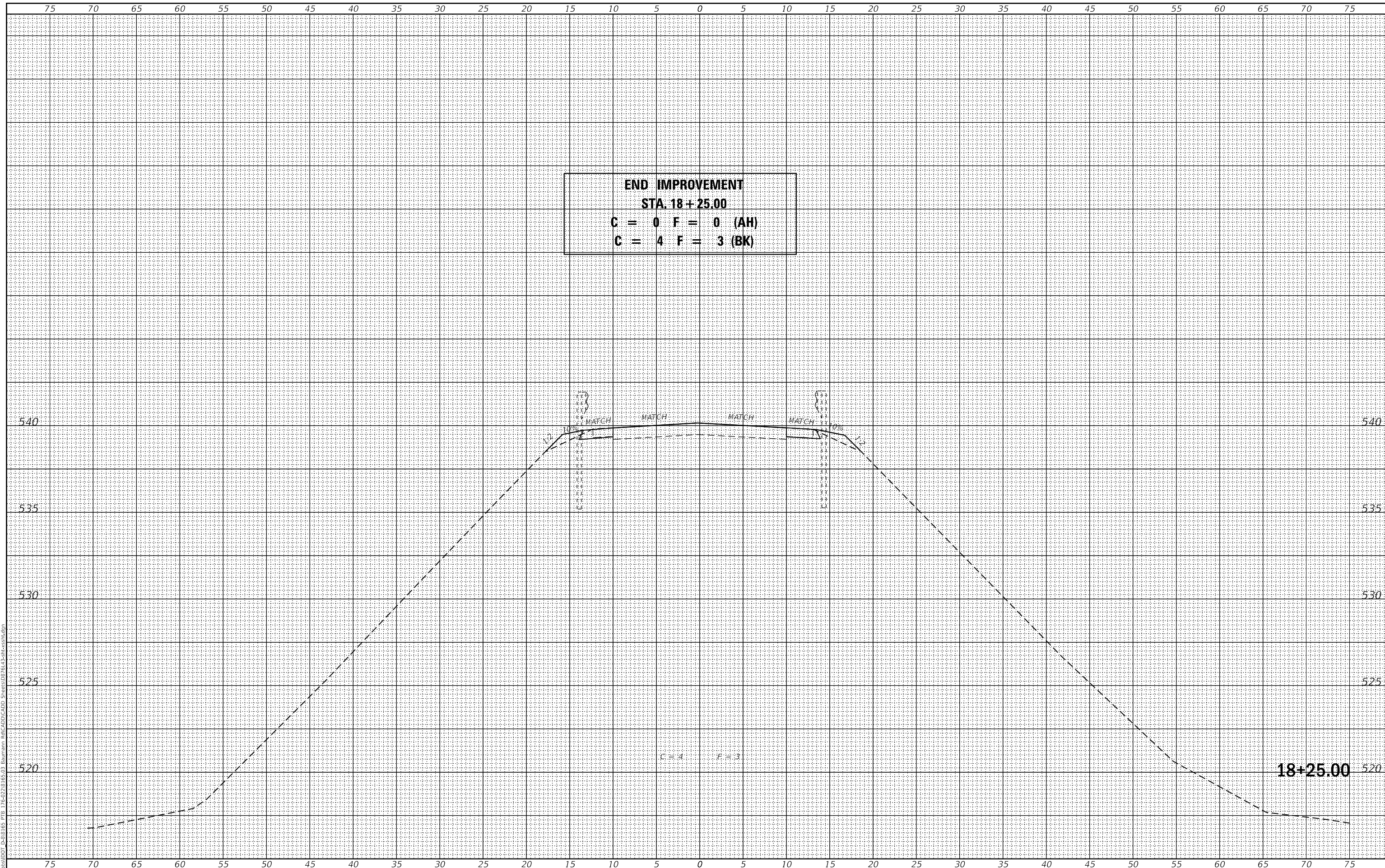
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	44
* BOND, MADISON			CONTRACT NO. 76L43	
ILLINOIS FED. AID PROJECT				

18+13.50

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

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

END IMPROVEMENT
STA. 18+25.00
C = 0 F = 0 (AH)
C = 4 F = 3 (BK)



MODEL: Default
FILE: M:\184001036\DOT_18401036_PTB_176-023.8 165-03_Baumman Rd\CAD\CADD_Sheets\18401036-3-18-18.ctb



USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = \$SCALES	DRAWN - GSI	REVISED
PLOT DATE = 1/23/2018	CHECKED - RKA	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
I-70 UNDER BAUMANN ROAD
SCALE: 1" = 10' SHEET 13 OF 14 SHEETS STA. 18+25.00 TO STA. 18+25.00

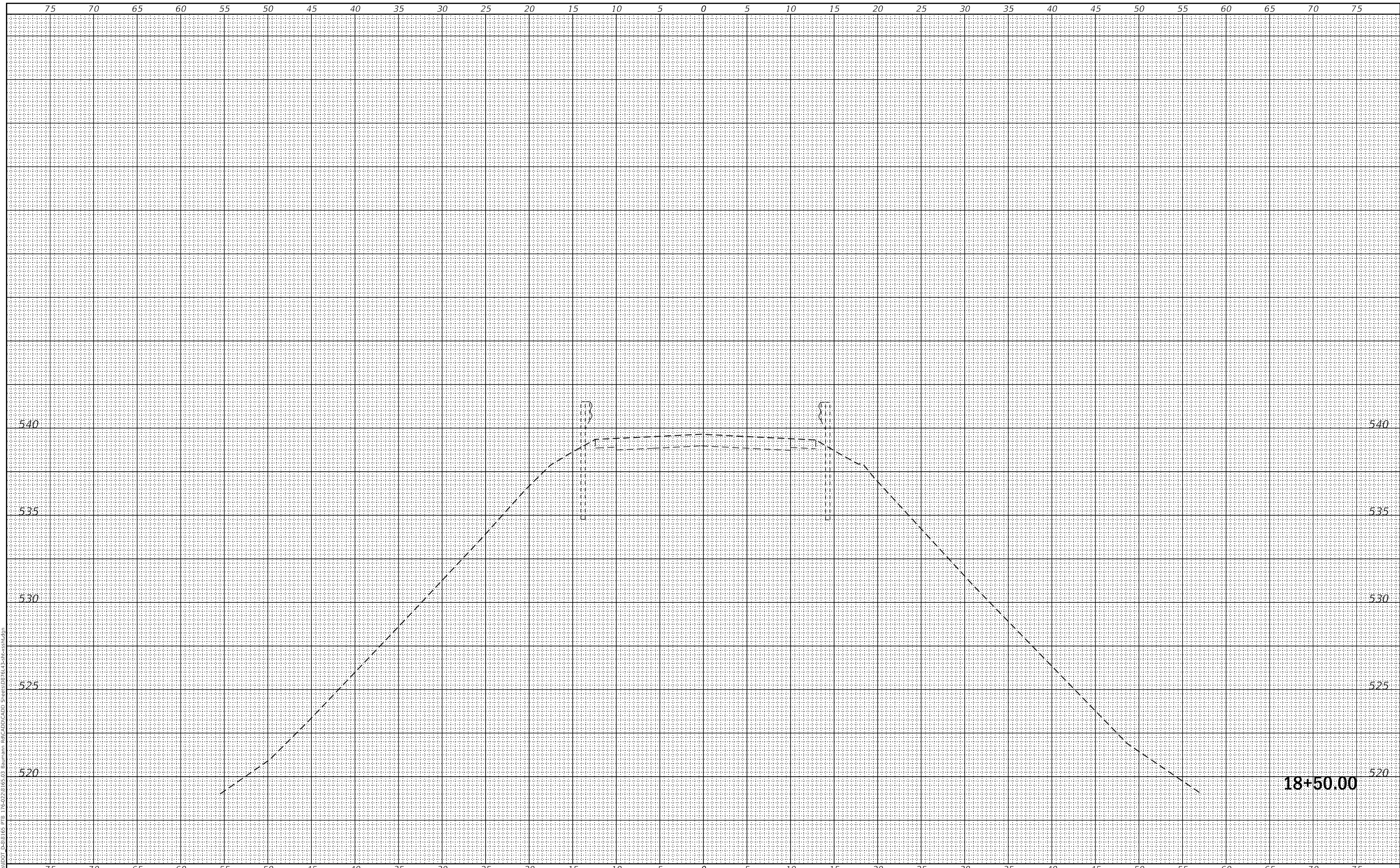
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	45
* BOND, MADISON		CONTRACT NO. 76L43		

ILLINOIS FED. AID PROJECT

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

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

MODEL: Default
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USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = \$SCALES	DRAWN - GSI	REVISED
PLOT DATE = 1/23/2018	CHECKED - RKA	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 I-70 UNDER BAUMANN ROAD**

SCALE: 1" = 10' SHEET 14 OF 14 SHEETS STA. 18+50.00 TO STA. 18+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	3-1HB-2	*	46	46
* BOND, MADISON			CONTRACT NO. 76L43	
		ILLINOIS	FED. AID PROJECT	