

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	08-00024-01-BR	KANE	56	1
FED. ROAD DIST. 1		ILLINOIS	Sheet 1 of 57	

CONTRACT NO. 61A77

STATE OF ILLINOIS

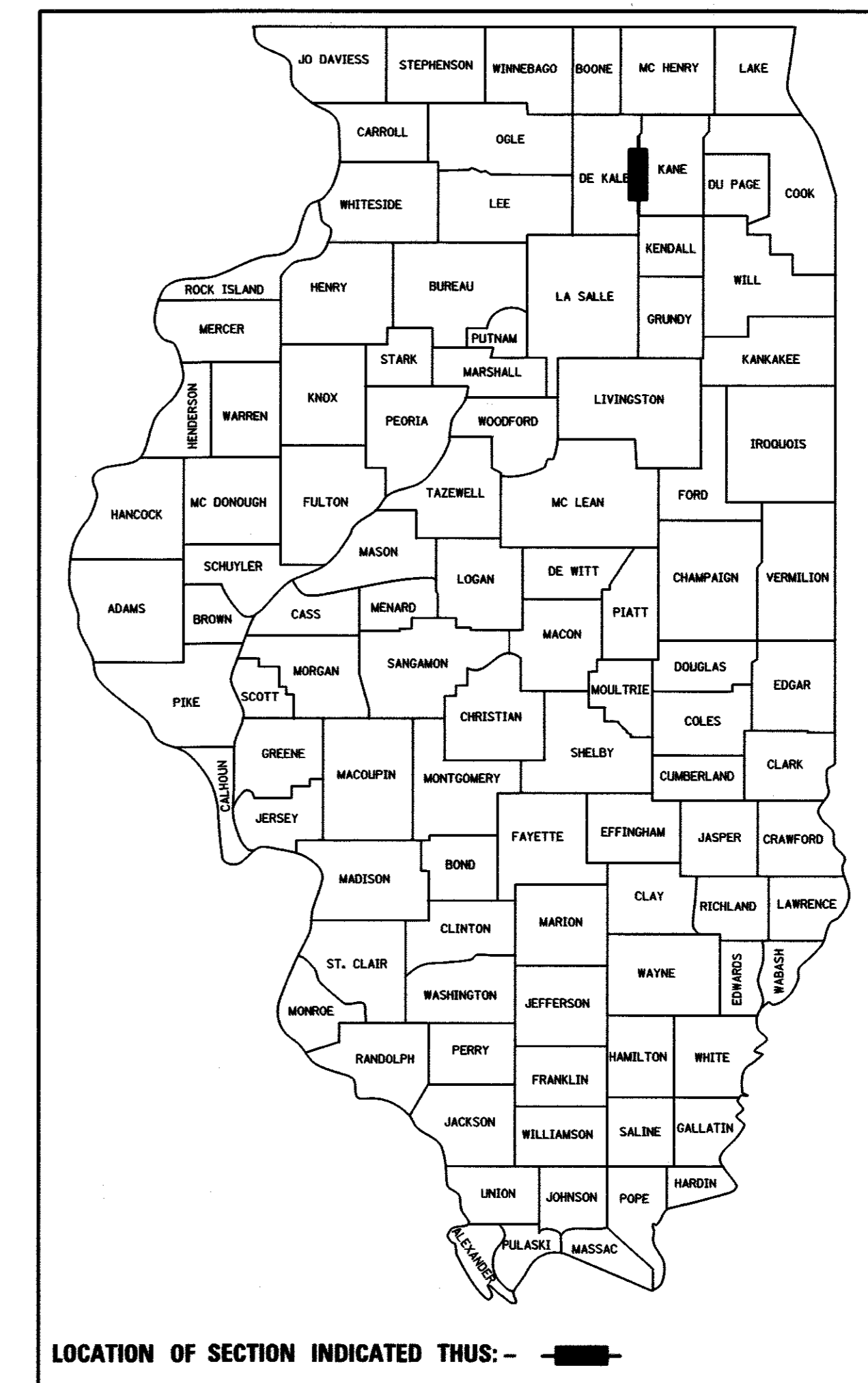
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN VIRGIL TOWNSHIP

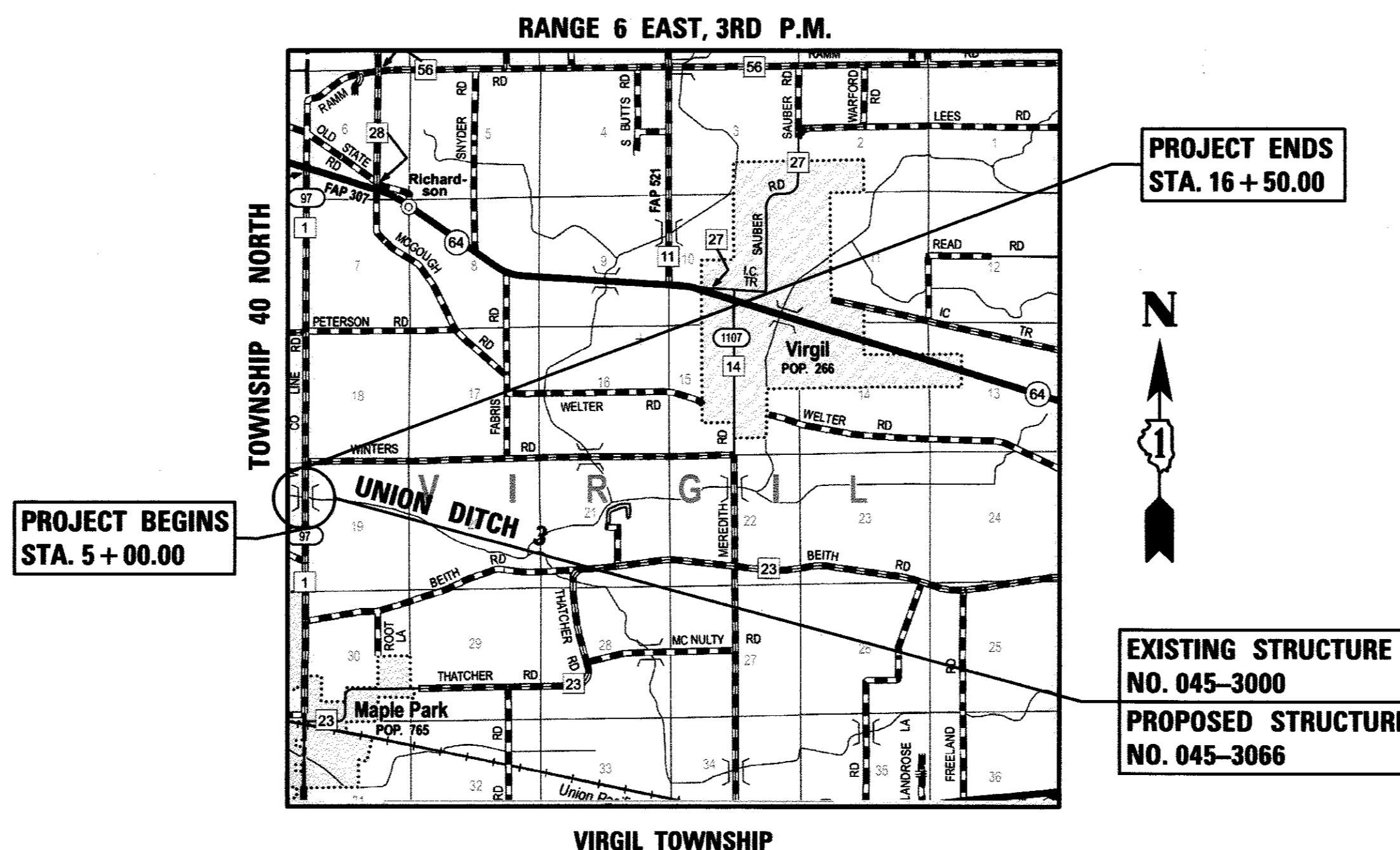
**FAS RTE 97 (WEST COUNTY LINE ROAD)
OVER UNION DITCH NO. 3
BRIDGE REMOVAL AND REPLACEMENT
SECTION 08-00024-01-BR
PROJECT NOS. 220K(545)
KANE COUNTY
JOB NO. C-91-271-09**



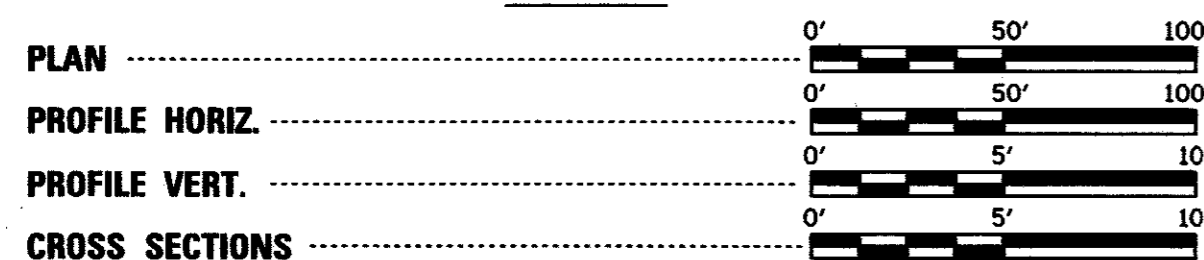
TRAFFIC DATA

2010 ADT = 1850
2030 ADT = 5000
2040 ADT = 5000
DESIGN SPEED: 60 MPH
POSTED SPEED: 55 MPH

**DESIGN DESIGNATION:
MAJOR COLLECTOR (NON-URBAN)**

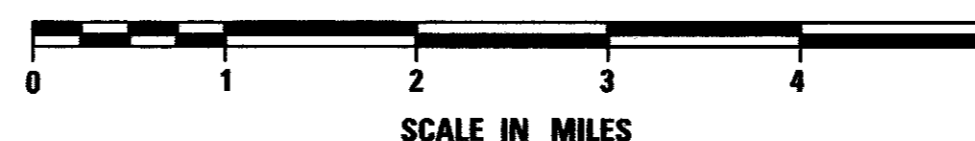


SCALES



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

PROJECT LOCATED IN:
PART OF SECTION 19 IN TOWNSHIP 40 N., RANGE 6 E., OF THE THIRD
PRINCIPAL MERIDIAN, KANE, ILLINOIS AND PART OF SECTION 24 IN TOWNSHIP
40 N., RANGE 5 E., OF THE THIRD PRINCIPAL MERIDIAN, DEKALB COUNTY, ILLINOIS



Gary J. Cartwright 8-8-17
ILLINOIS PROFESSIONAL NO. 43488
EXPIRES 11-30-17

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	August 9 2017 <i>[Signature]</i> KANE COUNTY ENGINEER
PASSED	August 10 2017 <i>[Signature]</i> DISTRICT 7 ENGINEER OF LOCAL ROADS & STREETS
RELEASED FOR BID BASED ON LIMITED REVIEW	August 10 2017 <i>[Signature]</i> REGIONAL ENGINEER
PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS	

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 SCHAUMBURG, IL

CONTRACT NO. 61A77

2060 W. ILES AVENUE
SPRINGFIELD, IL 62704
(217) 544-8477
www.fehr-graham.com

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE APPLICABLE REQUIREMENT SET FORTH IN "THE CONSTRUCTION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016 THEREINAFTER REFERRED TO AS STANDARD SPECIFICATIONS, THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM MANUAL TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION; SPECIAL PROVISIONS AS INCLUDED IN THE CONTRACT DOCUMENTS; AND THE DETAILS AND STANDARDS CONTAINED IN THESE PLANS.
- BEFORE STARTING ANY EXCAVATIONS, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- THE LOCATIONS OF THE EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES, IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST IN ACCORDANCE WITH ARTICLE 105.07.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- ALL WORK SHALL BE COMPLETED WITHIN THE LIMITS OF THE PROJECT SHOWN. NO EQUIPMENT, MATERIALS OR A YARD OR FIELD OFFICE SHALL BE SET UP OR STORED ON COUNTY OR PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION OF THE ENGINEER.
- MAINTENANCE OF TRAFFIC-GENERAL: TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES OF THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
- TRAFFIC CONTROL DEVICES: ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC AS DETAILED ON THE PLANS SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS NECESSARY THROUGHOUT THE DURATION OF THE CONTRACT.
- THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. FOR INFORMATION REGARDING THE EXISTING STRUCTURE SEE RECORD PLANS ON SHEETS 41 to 44.

TO MAKE ARRANGEMENTS FOR SEEING ORIGINALS PLEASE CONTACT:

MR. CARL SCHOEDEL, P.E.
KANE COUNTY DIVISION OF TRANSPORTATION
COUNTY ENGINEER
630-584-1170

- THOSE SEEKING THE FULL HYDRAULIC REPORT SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT:

MR. CARL SCHOEDEL, P.E.
KANE COUNTY DIVISION OF TRANSPORTATION
COUNTY ENGINEER
630-584-1170

- THE CONTRACTOR SHALL CONTACT THE IDOT AREA TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 72 HOURS IN ADVANCE OF BEGINNING WORK.

DRAINAGE NOTES

- DURING CONSTRUCTION OPERATIONS ALL LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES AND TEMPORARY DITCHES THAT OBSTRUCT THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS. ALL DRAINAGE STRUCTURES SHALL BE CLEANED AS NECESSARY TO INSURE THAT THEY ARE FREE FROM ALL DIRT AND DEBRIS PRIOR TO THE FINAL INSPECTION OF THE PROJECT.
- ANY FARM DRAIN, FIELD TILE SYSTEM OR OTHER UNDERGROUND TILE FACILITY ENCOUNTERED IN THE WORK SHALL BE LOCATED AND STAKED AND REPORTED TO THE RESIDENT ENGINEER. ANY DRAINAGE LINES WHICH ARE CUT OR DAMAGED BY GRADING, TRENCHING, EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES SHALL BE REPAIRED SO AS TO MAINTAIN ITS ORIGINAL ALIGNMENT. IF THIS CANNOT BE ACCOMPLISHED, THE TILE SHALL BE REPAIRED AND RELOCTED IN SUCH A MANNER AS TO RENDER THE LINES USABLE FOR THE PURPOSES INTENDED. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISION "FIELD TILE ADJUSTMENT".

KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT NOTES

- THE CONTRACTOR AND ENGINEER SHALL MEET WITH KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT TO COORDINATE ALL IN-STREAM ACTIVITIES.
- THE CONTRACTOR'S IN-STREAM WORK PLAN SHALL BE SUBMITTED TO THE SOIL & WATER CONSERVATION DISTRICT AND KANE COUNTY FOR REVIEW AND APPROVAL PRIOR TO STARTING ANY WORK. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THIS PROVIDING THE PLAN AND COORDINATION.
- SEE EROSION CONTROL PLAN SHEETS FOR ADDITIONAL DETAILS, CONDITIONS AND NOTES.

EARTHWORK AND ROADWAY

- EARTHWORK SHALL BE PAID FOR ONLY ONCE REGARDLESS OF STAGING. STOCK PILING OF MATERIALS FOR LATER USE AND REDISTRIBUTION AND RESPREADING IN SHOULDERS AND CONSTRUCTING EMBANKMENTS.
- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION: ITEM NO. 2100100 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION WILL ONLY BE UTILIZED IN AREAS THAT HAVE BEEN IDENTIFIED AS SUBGRADE UNDERCUTS AREAS OR WHERE DETERMINED IN THE FIELD BY A GEOTECHNICAL ENGINEER. THE FABRIC WILL BE USED IN COMBINATION WITH AGGREGATE SUBGRADE IMPROVEMENT. THE QUANTITY INCLUDED IN THE PLANS IS AN ESTIMATED QUANTITY IN ORDER TO ESTABLISH A UNIT PRICE.
- ALL EXCAVATION AND EMBANKMENT LOCATIONS REQUIRING SEEDING SHALL BE CONSTRUCTED TO 6 INCHES BELOW FINISHED GRADE LINE TO ALLOW TOPSOIL PLACEMENT.
- PAVEMENT ELEVATIONS: THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES FOR THE PROPOSED PAVEMENT OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, INDEX & STANDARDS
3-5	SUMMARY OF QUANTITIES
6-7	TYPICAL SECTIONS
8	SCHEDULE OF QUANTITIES
9	EARTHWORK SCHEDULE
10	ALIGNMENT, TIES & BENCHMARKS
11	EXISTING CONDITIONS & REMOVAL PLAN
12	PLAN & PROFILE
13-14	MAINTENANCE OF TRAFFIC - DETOUR PLAN
15	COMPENSATORY STORAGE
16	PAVEMENT MARKING & REFLECTOR MARKERS
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18	EROSION CONTROL NOTES & DETAILS
19-20	EROSION STANDARDS
21	ENTRANCE DETAILS
22-40	STRUCTURAL PLANS
41-44	EXISTING STRUCTURE PLANS FOR REFERENCE ONLY
45	BENCHING DETAIL FOR EMBANKMENT WIDENING
46	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
47	ARTERIAL ROAD INFORMATION SIGN
47A	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
48-56	CROSS SECTIONS - WEST COUNTY LINE

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542401-02	METAL END SECTION FOR PIPE CULVERTS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
602011-02	CATCH BASIN TYPE C
630301-07	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
666001-01	RIGHT OF WAY MARKERS
701001-02	OFF-RD OPERATION 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATION 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS.
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-06	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DISTRICT DETAILS

STANDARD NO.	DESCRIPTION
BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN

FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE	 FREEDPORT, IL ROCKFORD, IL SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	GENERAL NOTES, INDEX, AND STANDARDS			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = cconnor	DRAWN - A.D.S.	REVISED -	www.fehr-graham.com					97	08-00024-01-BR	KANE	56	2
PLOT SCALE = #SCALE#	CHECKED - R.D.F.	REVISED -			SCALE: #SCALE#	PROPOSED STRUCTURE @ STA.	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 61A77		
PLOT DATE = 8/23/2017	DATE - 8/23/2017	REVISED -										

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	20200100	EARTH EXCAVATION	CU YD	4904
	20300100	CHANNEL EXCAVATION	CU YD	1487
	20400800	FURNISHED EXCAVATION	CU YD	1822
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1882
S	25000210	SEEDING, CLASS 2A	ACRE	1.1
S	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	100
S	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	100
S	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	100
S	25100630	EROSION CONTROL BLANKET	SQ YD	12245
S	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	255
	28000315	AGGREGATE DITCH CHECKS	TON	418
	28000400	PERIMETER EROSION BARRIER	FOOT	2650
	28000500	INLET AND PIPE PROTECTION	EACH	2
	28100205	STONE RIPRAP, CLASS A3	TON	5
	28100209	STONE RIPRAP, CLASS A5	TON	3305
	28200200	FILTER FABRIC	SQ YD	2030
	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	4527
	31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	29
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1770
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1413
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	286
	42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	132
	44000100	PAVEMENT REMOVAL	SQ YD	2669
	48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1916
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	50200100	STRUCTURE EXCAVATION	CU YD	171
	50300100	FLOOR DRAINS	EACH	8
	50300225	CONCRETE STRUCTURES	CU YD	77.0
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	311.4

FILE NAME =	DESIGNED - G.J.C.	REVISED -
USER NAME = cconnor	DRAWN - A.D.S.	REVISED -
PLOT SCALE = *SCALE*	CHECKED - R.D.F.	REVISED -
PLOT DATE = 8/23/2017	DATE - 8/23/2017	REVISED -

2060 W. ILES AVENUE
SPRINGFIELD, IL. 62704
(217) 544-8477
www.fehr-graham.com



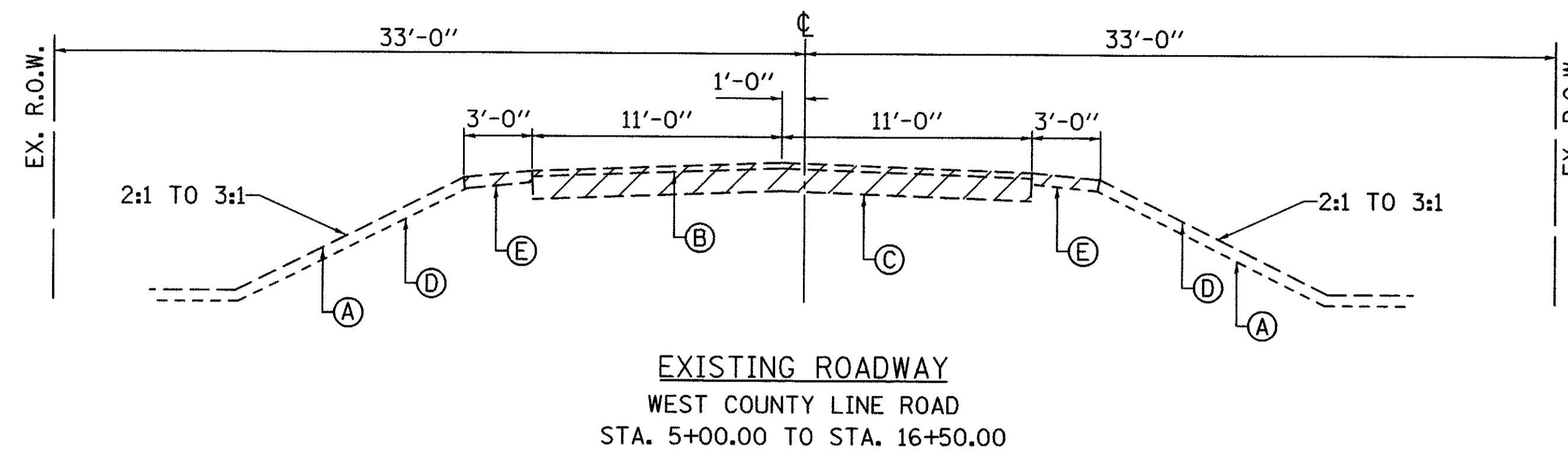
FREEPORT, IL ROCKFORD, IL
ROCHELLE, IL SPRINGFIELD, IL
MONROE, WI

SUMMARY OF QUANTITIES	
SCALE: *SCALES*	PROPOSED STRUCTURE @ STA. 10+61

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	08-00024-01-BR	KANE	56	3
CONTRACT NO. 61A77				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	50300260	BRIDGE DECK GROOVING	SQ YD	702
	50300300	PROTECTIVE COAT	SQ YD	862
	50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	LSUM	1
	50500505	STUD SHEAR CONNECTORS	EACH	2184
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	81190
	51201800	FURNISHING STEEL PILES HP14X73	FOOT	1200
	51202305	DRIVING PILES	FOOT	1200
	51203800	TEST PILE STEEL HP14X73	EACH	2
	51500100	NAME PLATES	EACH	1
	52100520	ANCHOR BOLTS, 1"	EACH	28
	542D5470	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 15"	FOOT	30
	542D5473	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 18"	FOOT	32
	54215760	METAL END SECTIONS, EQUIVALENT ROUND-SIZE 15"	EACH	2
	54215763	METAL END SECTIONS, EQUIVALENT ROUND-SIZE 18"	EACH	2
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	100
	60100945	PIPE DRAINS 12"	FOOT	400
	60207005	CATCH BASINS, TYPE C, TYPE 1 FRAME, CLOSED LID	EACH	8
S	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4
S	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
S	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7
	67100100	MOBILIZATION	LSUM	1
S	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
S	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2585
S	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	4
S	78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	6

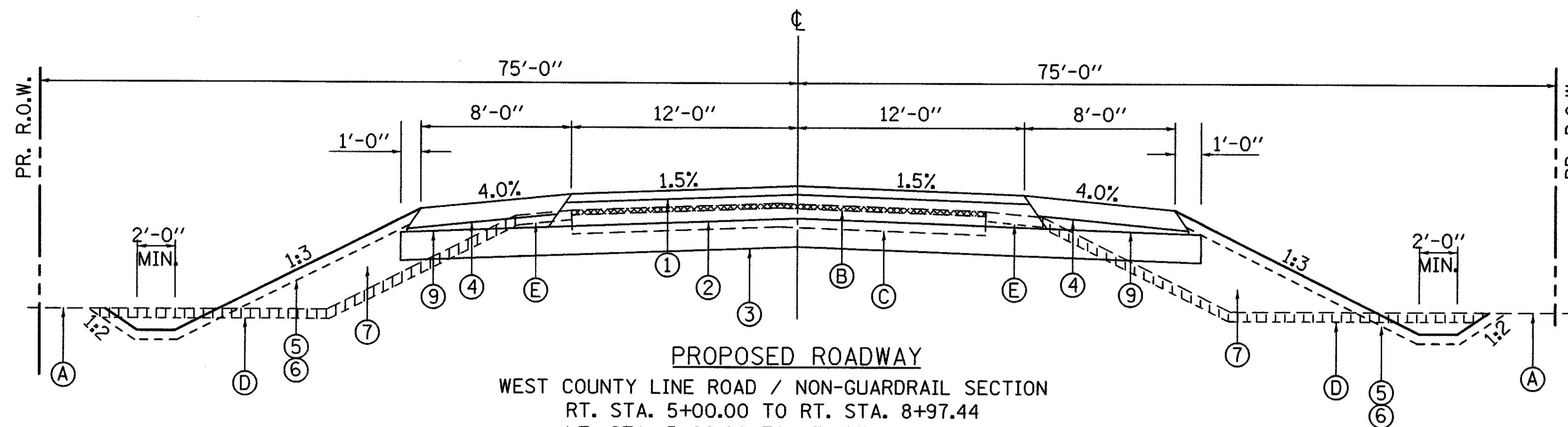
FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FIRM NO. 184-00525</small>	FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI	SUMMARY OF QUANTITIES				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = cconnor	DRAWN - A.D.S.	REVISED -								97	08-00024-01-BR	KANE	56	4
PLOT SCALE = #SCALE#	CHECKED - R.D.F.	REVISED -				SCALE: #SCALE# PROPOSED STRUCTURE @ STA. 10+61				CONTRACT NO. 61A77				
PLOT DATE = 8/23/2017	DATE - 8/23/2017	REVISED -								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



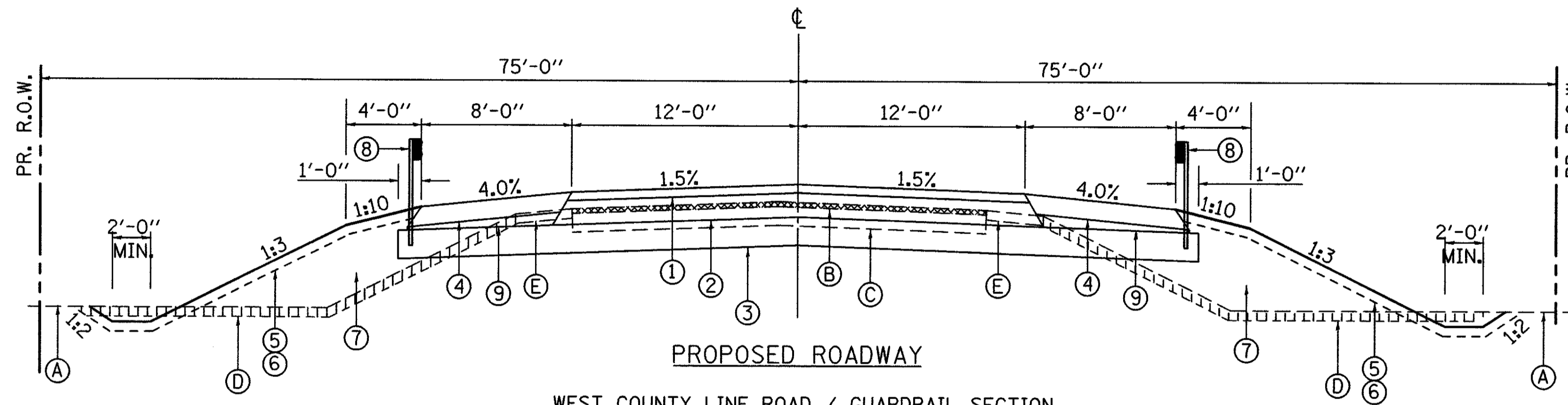
LEGEND, EXISTING

- Ⓐ EXISTING GROUND
- Ⓑ EXISTING HOT-MIX ASPHALT PAVEMENT
REMOVAL PAID FOR UNDER PAYITEM PAVEMENT REMOVAL
- Ⓒ EXISTING AGGREGATE BASE
REMOVAL PAID FOR UNDER PAYITEM PAVEMENT REMOVAL
- Ⓓ EXISTING TOPSOIL
- Ⓔ EXISTING AGGREGATE SHOULDER
REMOVAL PAID UNDER PAYITEM EARTH EXCAVATION

FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FIRM NO. 184-003025</small>	FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI	TYPICAL SECTIONS EXISTING	F.A.S. RTE. 97	SECTION 08-00024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 6
USER NAME = myoung	DRAWN - A.D.S.	REVISED -					CONTRACT NO. 61A77				
PLOT SCALE = #SCALE#	CHECKED - R.D.F.	REVISED -				SCALE: #SCALES#	PROPOSED STRUCTURE @ STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
PLOT DATE = 8/9/2017	DATE - 8/9/2017	REVISED -									



PROPOSED ROADWAY
 WEST COUNTY LINE ROAD / NON-GUARDRAIL SECTION
 RT. STA. 5+00.00 TO RT. STA. 8+97.44
 LT. STA. 5+00.00 TO LT. STA. 9+03.69
 RT. STA. 12+18.33 TO RT. STA. 16+50.00
 LT. STA. 12+24.58 TO LT. STA. 16+50.00



PROPOSED ROADWAY
 WEST COUNTY LINE ROAD / GUARDRAIL SECTION
 RT. STA. 8+97.44 TO RT. STA. 9+91.20
 LT. STA. 9+03.69 TO LT. STA. 9+97.45
 RT. STA. 11+24.57 TO RT. STA. 12+18.33
 LT. STA. 11+30.82 TO LT. STA. 12+24.58

LEGEND, EXISTING

- (A) EXISTING GROUND
- (B) EXISTING HOT-MIX ASPHALT PAVEMENT, (TO BE REMOVED - 44000100)
- (C) EXISTING AGGREGATE BASE
- (D) EXISTING TOPSOIL - (TO BE REMOVED)
- (E) EXISTING AGGREGATE SHOULDER, (REMOVED AS NECESSARY- INCLUDED IN EARTH EXCAVATION)

LEGEND, PROPOSED

- ① 2" H.M.A. SURFACE COURSE, MIX "D", N50 40603310
- ② 9 1/2" H.M.A. BINDER COURSE, IL-19.0, N50 (3 LIFTS) 40603080
- ③ AGGREGATE SUBGRADE IMPROVEMENT 12" 30300112
- ④ H.M.A. SHOULDERS, 8" (48203029)
- ⑤ 6" TOPSOIL EXCAVATION AND PLACEMENT 21101505
- ⑥ SEEDING CLASS 2A, 4(MOD.), 5(MOD.) W/EROSION CONTROL BLANKET
- ⑦ STRUCTURAL EMBANKMENT (TO BE PAID AS FURNISHED EXCAVATION) 20400800
- ⑧ TRAFFIC BARRIER TERMINAL
- ⑨ SUB-BASE GRANULAR MATERIAL, TYPE B

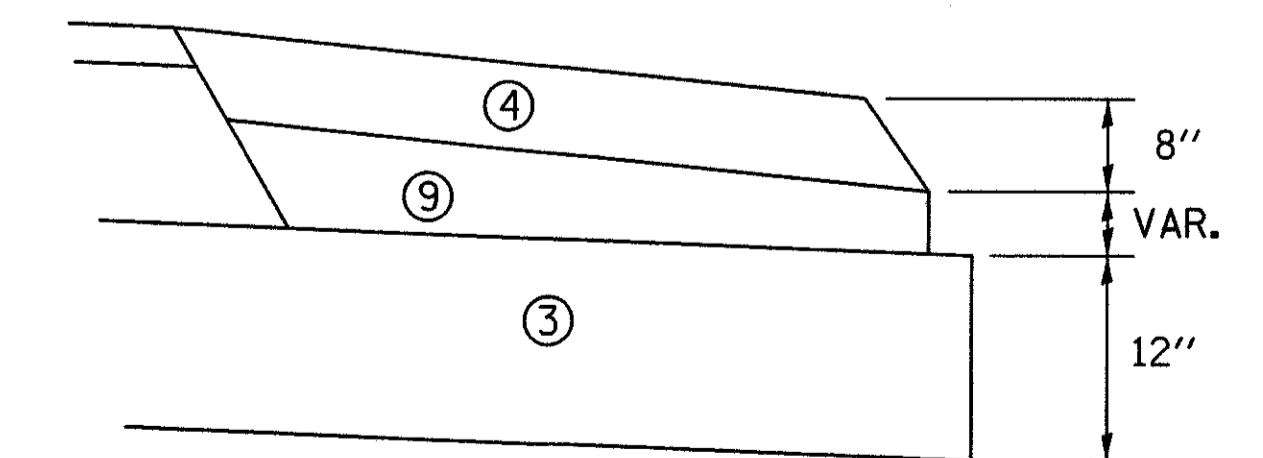
HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
ITEM	AIR VOIDS @ Ndes
RECONSTRUCTION	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 9 1/2"	4% @ 50 GYR.
APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 9 1/2" & VAR.	4% @ 50 GYR.
H.M.A. SHOULDERS 8"	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm) 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50 6"	4% @ 50 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL H.M.A. SURFACE MIXTURE QUANTITIES IS 112 LB/SQ YD/IN.

THE AC TYPE FOR NON-POLYMERIZED H.M.A. "AC TYPE" SHALL BE "PG64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP AND RAS" SEE DISTRICT ONE SPECIAL PROVISIONS.

PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: YEAR 2023
 PV = 2495 SU = 329 MU = 219
 ROAD/STREET CLASSIFICATION: CLASS 2
 TF = 1.51
 SUBGRADE SUPPORT RATING: SSR = FAIR
 TEMP. = 76°, E_{AC} = 534, DESIGN STRAIN = 100



HMA SHOULDER DETAIL

FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-00595	FREEPORT, IL	ROCKFORD, IL	TYPICAL SECTIONS PROPOSED	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = cconnor	DRAWN - A.D.S.	REVISED -			MONROE, WI	97		08-00024-01-BR	KANE	56	7	
PLOT SCALE = #SCALE#	CHECKED - R.D.F.	REVISED -			SCALE: #SCALE#	PROPOSED STRUCTURE @ STA.		CONTRACT NO. 61A77				
PLOT DATE = 8/23/2017	DATE - 8/23/2017	REVISED -						FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

LANDSCAPING AND EROSION CONTROL ITEMS

PAY ITEM	UNIT	Sta. 5+00 to Sta. 10+61	Sta. 10+61 to Sta. 16+50	TOTAL
SEEDING, CLASS 2A	ACRE	0.55	0.55	1.1
SEEDING, CLASS 4 (MODIFIED)	ACRE	0.68	0.72	1.4
SEEDING, CLASS 5 (MODIFIED)	ACRE	0.68	0.72	1.4
NITROGEN FERTILIZER NUTRIENT	POUND	49	51	100
PHOSPHORUS FERTILIZER NUTRIENT	POUND	49	51	100
POTASSIUM FERTILIZER NUTRIENT	POUND	49	51	100
EROSION CONTROL BLANKET	SQ YD	5930	6315	12245
TEMPORARY EROSION CONTROL SEEDING	POUND	124	131	255
PERIMETER EROSION BARRIER	FOOT	1296	1354	2650
INLET AND PIPE PROTECTION	EACH	2		2
TEMPORARY DITCH CHECKS	FOOT	46	49	95

MARKING, STRIPING, AND SIGNAGE ITEMS

PAY ITEM	UNIT	Sta. 5+00 to Sta. 8+00	Sta. 8+00 to Sta. 10+61	Sta. 10+61 to Sta. 13+70	Sta. 13+70 to Sta. 16+50	TOTAL
THERMOPLASTIC PAVEMENT MARKING-LINE 4"	FOOT	675	587	693	630	2585
TEMPORARY INFORMATIONAL SIGNS	EACH	2			2	4
GUARDRAIL MARKERS, TYPE A	EACH		2	2		4
BARRIER WALL MARKERS, TYPE B	EACH		3	3		6
TERMINAL MARKERS-DIRECT APPLIED	EACH		2	2		4

PAVEMENT ITEMS

PAY ITEM	UNIT	Sta. 5+00 to Sta. 8+00	Sta. 8+00 to Sta. 10+61	Sta. 10+61 to Sta. 13+70	Sta. 13+70 to Sta. 16+50	TOTAL
AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1400	830	1054	1307	4591
SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	9	5	7	8	29
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	442	255	326	413	1436
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	89.5	52	66	83.5	291
HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	506	428	512	470	1916
BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD		28	28		56
BITUMINOUS MATERIALS (PRIME COAT)	GALLON	383	220	281	358	1242

REMOVAL ITEMS

PAY ITEM	UNIT	Sta. 5+00 to Sta. 8+00	Sta. 8+00 to Sta. 10+61	Sta. 10+61 to Sta. 13+70	Sta. 13+70 to Sta. 16+50	TOTAL
PAVEMENT REMOVAL	SQ YD	733	76	76	684	1569

GUARDRAIL ITEMS

PAY ITEM	UNIT	Sta. 5+00 to Sta. 8+00	Sta. 8+00 to Sta. 10+61	Sta. 10+61 to Sta. 13+70	Sta. 13+70 to Sta. 16+50	TOTAL
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH		2	2		4
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH		2	2		4

FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FIRM NO. 194-003925</small>	FREEPORT, IL	ROCKFORD, IL	SCHEDULE OF QUANTITIES SCALE: *SCALES*	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = cconnor	DRAWN - A.D.S.	REVISED -			ROCHELLE, IL	SPRINGFIELD, IL		97	08-00024-01-BR	KANE	56	8
PLOT SCALE = *SCALE*	CHECKED - R.D.F.	REVISED -			MONROE, WI			CONTRACT NO. 61A77		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT
PLOT DATE = 8/23/2017	DATE - 8/23/2017	REVISED -			PROPOSED STRUCTURE @ STA. 10+61							

EARTHWORK GENERAL NOTES

LOCATION	TOPSOIL			EARTHWORK			
	EXCAVATION	21101505 PLACEMENT	BALANCE WASTE(+) or SHORTAGE(-)	20200100 EARTH EXCAVATION	EMBANKMENT (FOR INFO. ONLY)	CHANNEL EXCAVATION (SUITABLE)	20400800 BALANCE WASTE(+) or SHORTAGE(-) (FURNISHED)
	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)
5+00.00	38	33	5	83	19		43
5+50.00	94	83	11	228	29		142
6+00.00	112	101	11	371	68		211
6+50.00	112	102	10	368	132		143
7+00.00	112	102	10	293	194		26
7+50.00	113	101	12	240	304		-124
8+00.00	112	101	11	214	408		-248
8+50.00	111	103	8	192	510		-366
9+00.00	112	104	8	169	615		-488
9+50.00	114	65	49	206	615		-460
10+00.00	15	4	11	37	74		-46
10+06.80 TO 11+15.20						736	552
11+15.20	79	45	34	188	369		-227
11+50.00	111	103	8	218	544		-381
12+00.00	111	103	8	185	557		-419
12+50.00	111	103	8	196	485		-338
13+00.00	112	102	10	218	369		-206
13+50.00	112	101	11	244	257		-75
14+00.00	111	101	10	277	164		44
14+50.00	111	102	9	312	107		127
15+00.00	111	102	9	327	84		161
15+50.00	94	86	8	238	75		103
16+00.00	38	35	3	100	38		37
ENTRANCES					33		-33
TOTAL	2146	1882	264	4904	6050		1822

EARTHWORK GENERAL NOTES

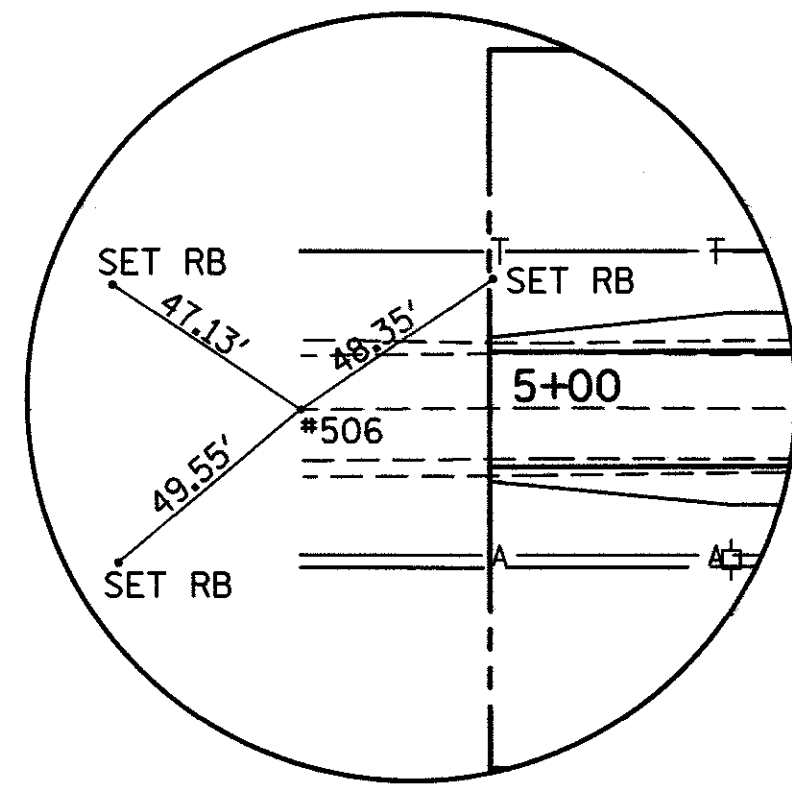
ALL EARTHWORK QUANTITIES ARE CALCULATED BY THE METHOD OF AVERAGE END AREAS USING THE PLAN CROSS SECTIONS. SHRINKAGE FACTOR, ASSUMED TO BE 25% FOR THIS PROJECT, ARE ESTIMATED FOR THE SOLE PURPOSE OF DETERMINING A BALANCE OF EARTHWORK. THE CONTRACTOR SHALL ESTIMATE HIS OWN SHRINKAGE FACTORS IN DETERMINING HIS EARTHWORK. NO PAYMENT WILL BE MADE ON EARTHWORK QUANTITIES DUE TO VARIATION IN THE SHRINKAGE FACTOR SINCE EARTHWORK IS MEASURED IN ITS FINAL POSITION.

IN ADDITION TO NUCLEAR DENSITY OF EMBANKMENTS AND SUBGRADES, THE FINAL SHALL BE PROOF ROLLED USING A FULLY LOADED SEMI TRUCK. THE PROOF-ROLL SHOULD DEMONSTRATE A MAXIMUM ONE-QUARTER (1/4) INCH DEFLECTION AT TOP OF SUBGRADE LEVEL.

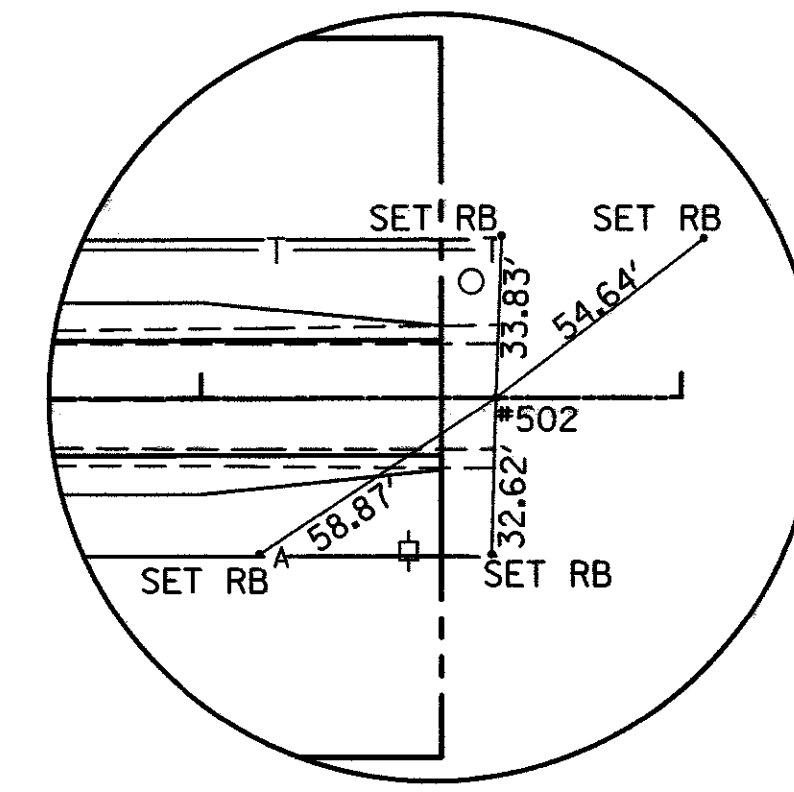
TEMPORARY EARTH STOCKPILES WILL NOT BE ALLOWED ON THE ADJACENT PROPERTIES WITHOUT THE PERMISSION OF THE OWNER AND APPROVAL OF THE ENGINEER. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE PERMISSION FROM THE APPROPRIATE OWNER PRIOR TO STOCK PILING ANY MATERIALS ON THOSE PROPERTIES. IF THIS SPACE IS NOT AVAILABLE, THE CONTRACTOR SHALL MAKE OTHER PROVISIONS FOR HANDLING THESE MATERIALS DURING CONSTRUCTION OPERATIONS.

EARTH EXCAVATION SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING OR SEQUENCING OF CONTRACTOR'S OPERATIONS THAT REQUIRE STOCKPILING OF MATERIALS FOR LATER USE, REDISTRIBUTION AND RESPREADING IN SHOULDERS AND CONSTRUCTING OF EMBANKMENTS.

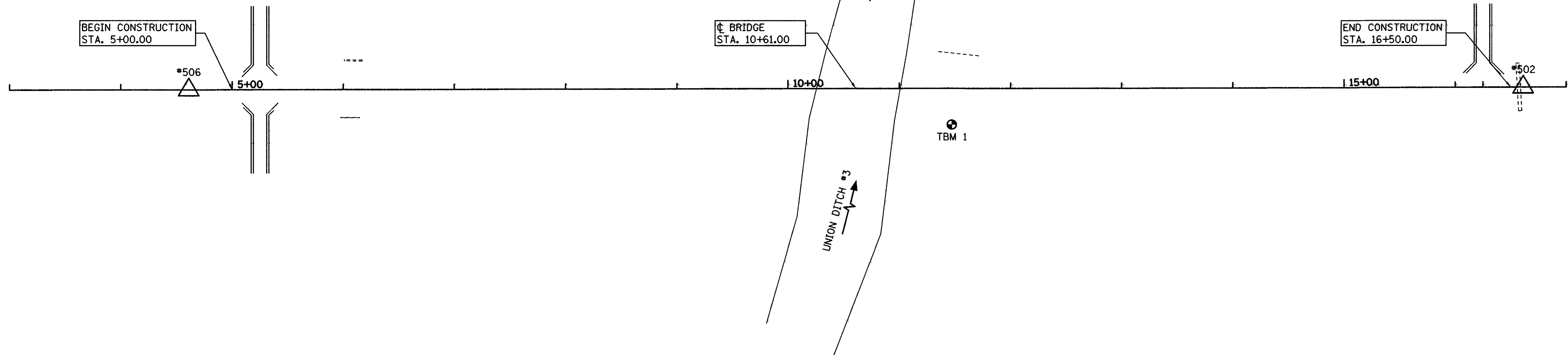
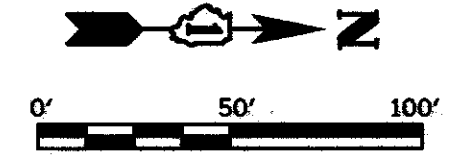
FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FIRM NO. 194-002525</small>	FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI	EARTHWORK SCHEDULE SCALE: *SCALES* PROPOSED STRUCTURE @ STA. 10+61	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = cconnor	DRAWN - A.D.S.	REVISED -			97		08-00024-01-BR	KANE	56	9	
PLOT SCALE = *SCALE*	CHECKED - R.D.F.	REVISED -			CONTRACT NO. 61A77						
PLOT DATE = 8/23/2017	DATE - 8/23/2017	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						



0.02' RT. STA. 4+60.87
SET P.K. NAIL
POINT #506



STA. 16+61.27
P.K. NAIL
POINT #502



CONTROL POINTS COORDINATE TABLE

POINT NO.	NORTHING	EASTING	STATION	OFFSET
506	1917924.499	911317.357	4+60.87	0.02 RT.
502	1919124.901	911315.056	16+61.27	0.00

LEGEND

- ⊙ = TEMPORARY BENCHMARK LOCATION
- △ = HORIZONTAL CONTROL POINT LOCATION

TBM	ELEVATION	DESCRIPTION
1	844.44	R.R. SPIKE IN P.P. FIRST P.P. NORTH OF BRIDGE ON THE EAST SIDE OF THE ROAD

FILE NAME =	DESIGNED - G.J.C.	REVISED -
USER NAME = myyoung	DRAWN - A.D.S.	REVISED -
PLOT SCALE = #SCALE#	CHECKED - R.D.F.	REVISED -
PLOT DATE = 8/9/2017	DATE - 8/9/2017	REVISED -

2060 W. ILES AVENUE
SPRINGFIELD, IL. 62704
(217) 544-8477
www.fehr-graham.com

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 104-00525

FREEPORT, IL ROCKFORD, IL
ROCHELLE, IL SPRINGFIELD, IL
MONROE, WI

ALIGNMENT, TIES & BENCHMARKS

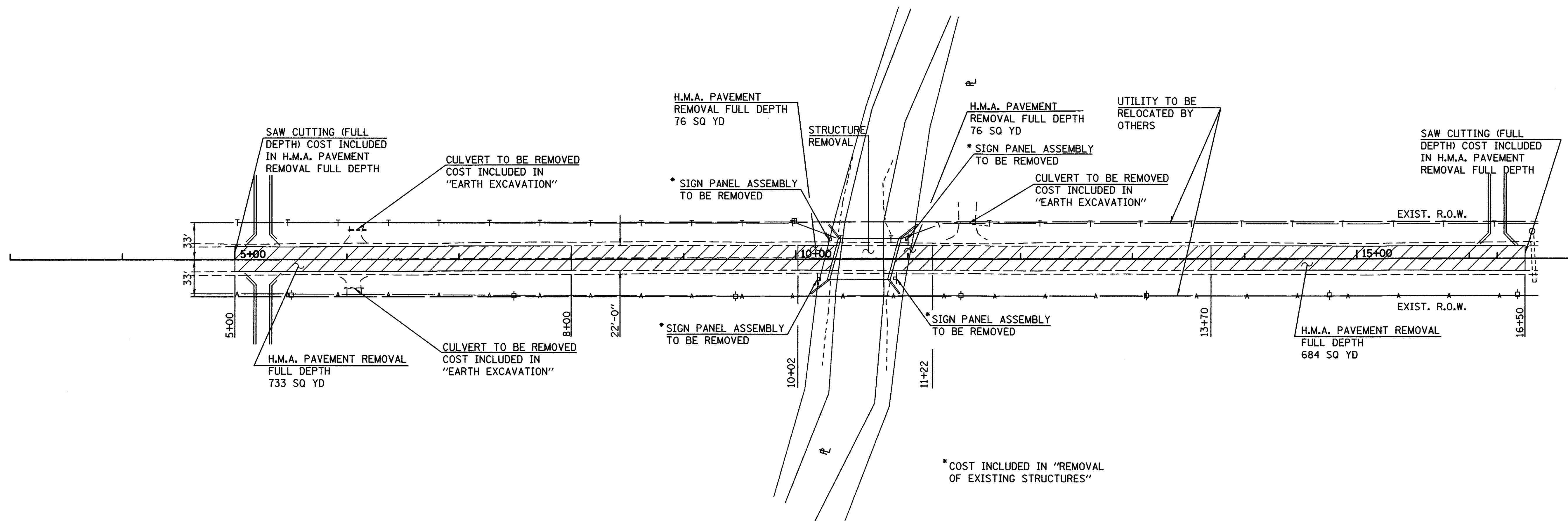
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PROPOSED STRUCTURE @ STA.

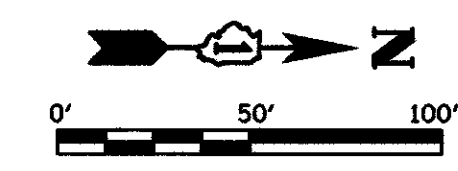
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	08-00024-01-BR	KANE	56	10
CONTRACT NO. 61A77				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

NOTES:

1. ALL REMOVED SIGN PANELS SHALL REMAIN THE PROPERTY OF KANE COUNTY. ONCE PANELS HAVE BEEN REMOVED THE CONTRACTOR WILL RETURN THEM TO A LOCATION SPECIFIED BY THE COUNTY.
2. CLEANING AND GRUBBING PER SEC. 200, SHALL NOT BE MEASURED SEPERATELY FOR PAYMENT, BUT SHALL BE INCLUDED IN COST OF EXCAVATION.



◆ SOIL BORING
 ▨ FULL DEPTH PAVEMENT REMOVAL

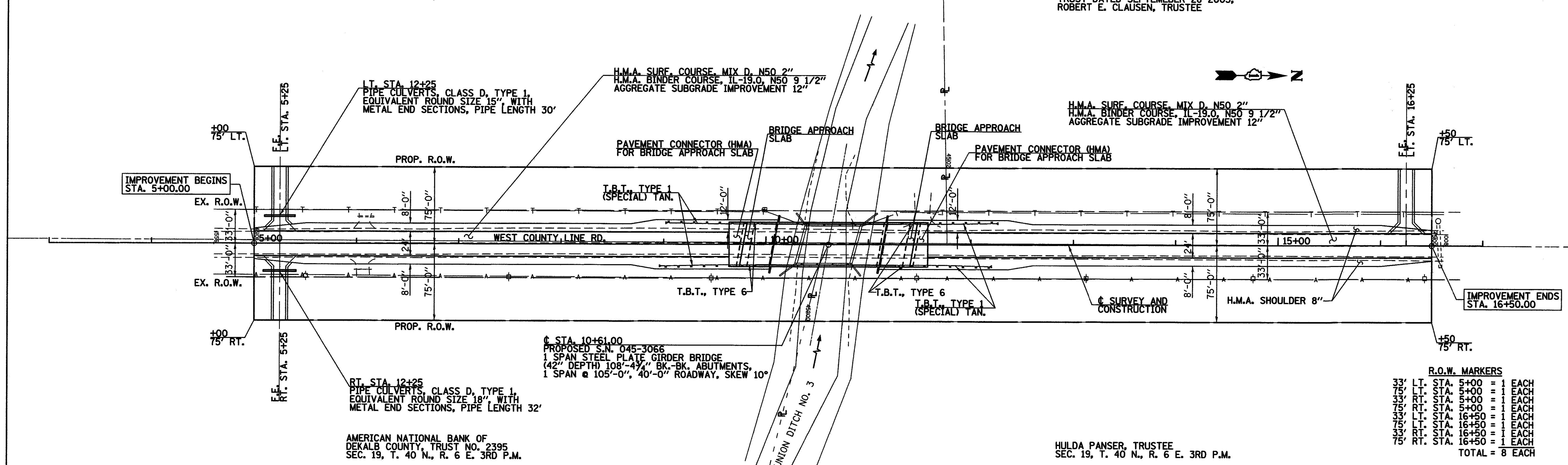


FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 104-00252	FREEPORT, IL	ROCKFORD, IL	EXISTING CONDITIONS & REMOVAL PLAN	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
USER NAME = cconnor	DRAWN - A.D.S.	REVISED -			ROCHELLE, IL	SPRINGFIELD, IL		97	08-00024-01-BR	KANE	56	11	
PLOT SCALE = #SCALE#	CHECKED - R.D.F.	REVISED -			MONROE, WI			SCALE: #SCALE#		PROPOSED STRUCTURE @ STA.		CONTRACT NO. 61A77	
PLOT DATE = 8/23/2017	DATE - 8/23/2017	REVISED -			ILLINOIS FED. AID PROJECT								

SEC 24, T. 40 N., R. 5 E., 3RD P.M.
 JOEL I. ERICKSON, TRUSTEE

SEC 24, T. 40 N., R. 5 E., 3RD P.M.
 CORABEL L. DEWITT 2005 DECLARATION OF
 TRUST DATED SEPTEMBER 28 2005,
 ROBERT E. CLAUSEN, TRUSTEE

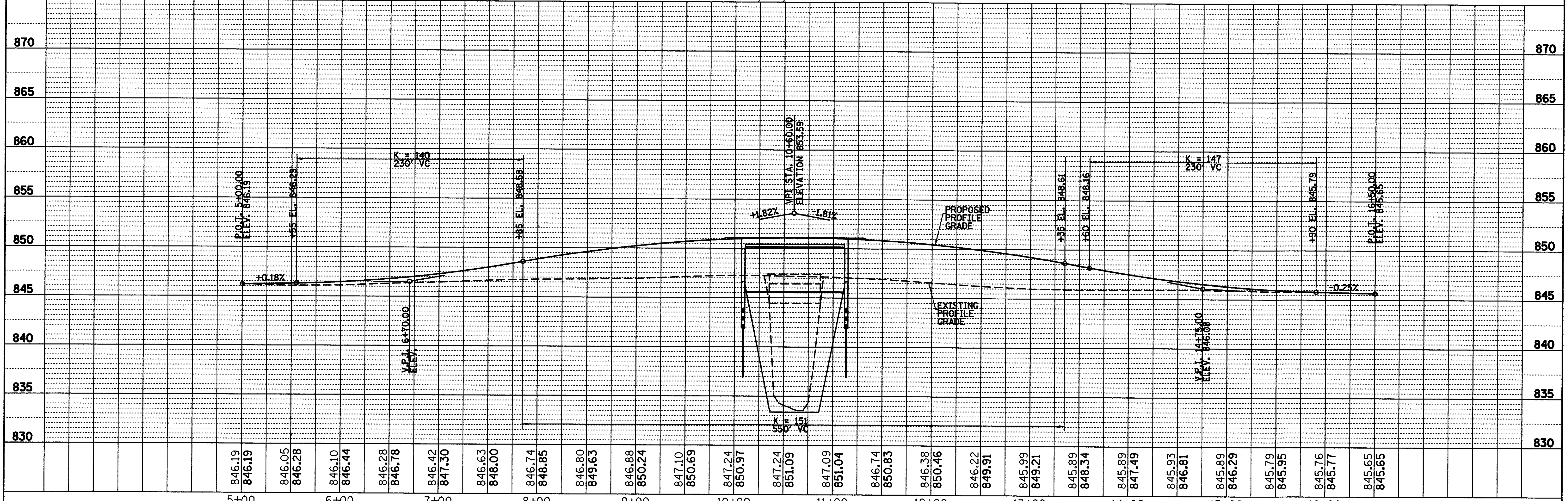
PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	RT. OF WAY CHECKED	
	NO. CAD FILE NAME	



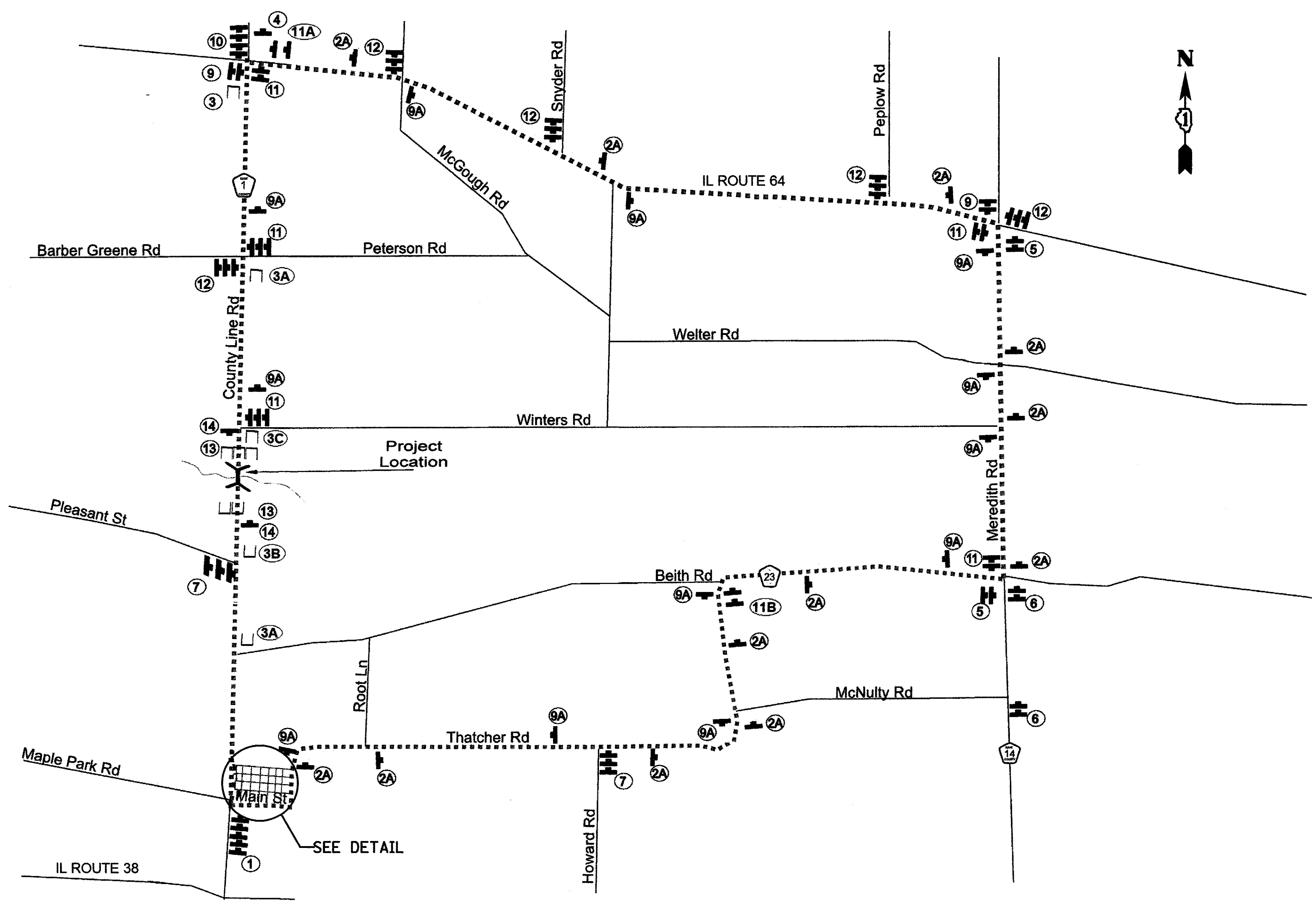
R.O.W. MARKERS

33'	LT.	STA. 5+00	= 1 EACH
75'	LT.	STA. 5+00	= 1 EACH
33'	RT.	STA. 5+00	= 1 EACH
75'	RT.	STA. 5+00	= 1 EACH
33'	LT.	STA. 16+50	= 1 EACH
75'	LT.	STA. 16+50	= 1 EACH
33'	RT.	STA. 16+50	= 1 EACH
75'	RT.	STA. 16+50	= 1 EACH
TOTAL = 8 EACH			

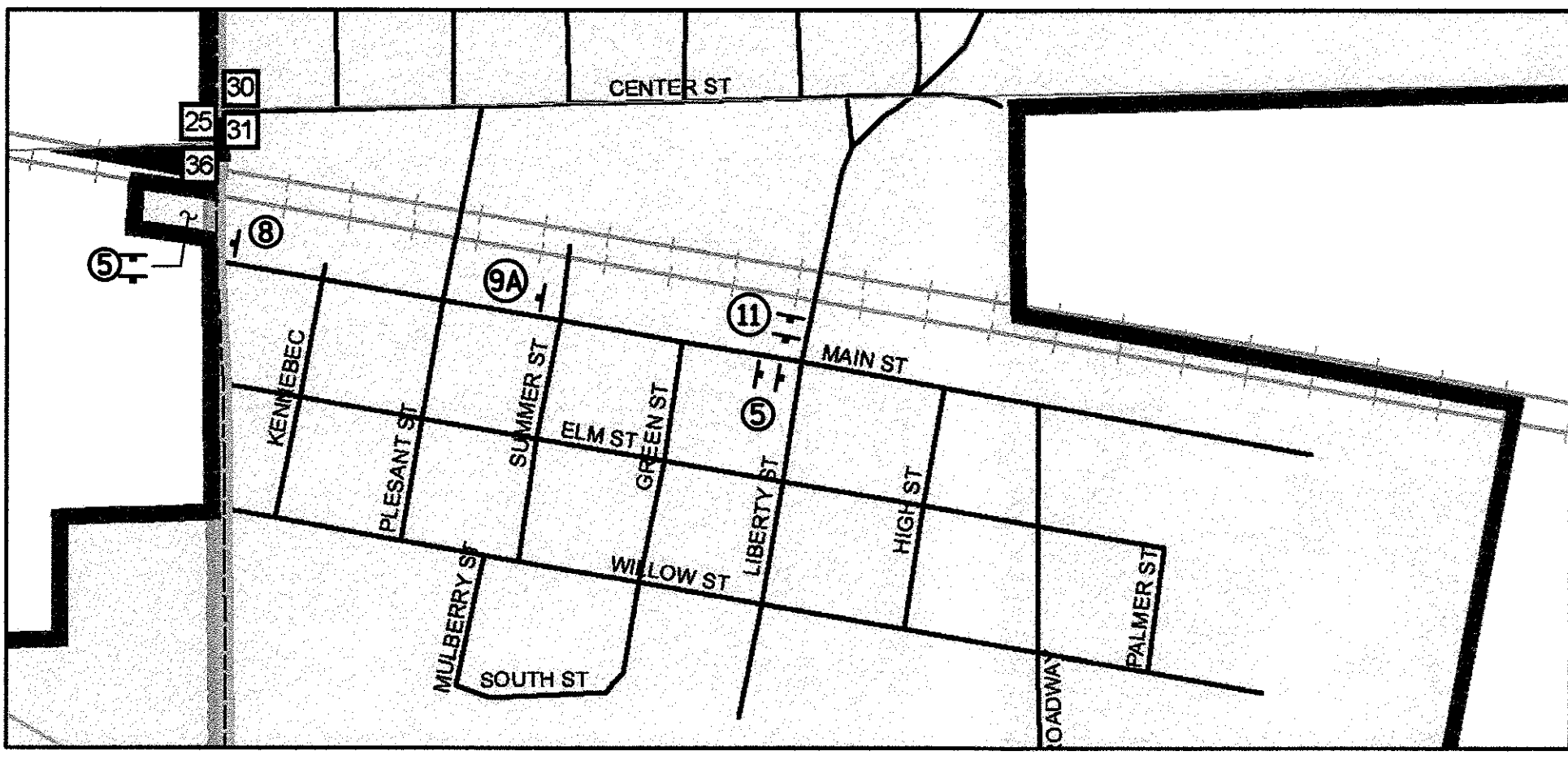
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	STRUCTURE NOTATION CHKD	
	NO. STRUCTURE NOTATION CHKD	



FILE NAME = -13-224_P&P.DGN	DESIGNED - G.J.C. DRAWN - A.D.S. CHECKED - R.D.F. DATE -	REVISED - REVISED - REVISED - REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-93325	FREERPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI	PLAN & PROFILE	F.A.S. RTE. 97	SECTION 08-00024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 12
SCALE: SHEET NO. OF SHEETS STA. TO STA.							CONTRACT NO. 61A77 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SEE DETAIL



DETAIL

CHANGEABLE MESSAGE SIGN

THE KANE COUNTY HIGHWAY DEPARTMENT REQUIRES THAT ELECTRONIC CHANGEABLE MESSAGE SIGNS BE PLACED ON THE NORTH AND SOUTH SIDE OF THE BRIDGE TO WARN TO PUBLIC OF THE PENDING CLOSURE. THE MESSAGE BOARDS WILL NEED TO BE PLACED AND SET OUT FOR SEVEN (7) DAYS IN ADVANCE OF THE ANTICIPATED FIRST DAY OF CONSTRUCTION. THE SIGNS SHALL REMAIN IN PLACE FOR THE SPECIFIED CONTRACT TIME. THE CONTRACTOR WILL COORDINATE WITH THE RESIDENT ENGINEER ON THE EXACT PLACEMENT OF THE MESSAGE BOARDS AND THE MESSAGE THAT IS TO BE DISPLAYED. THE MESSAGE MAY PERIODICALLY BE CHANGED BY THE COUNTY. THERE WILL BE NO ADDITIONAL COMPENSATION FOR CHANGING OF THE MESSAGE(S). THE MESSAGE BOARDS WILL BE PAID FOR AS CHANGEABLE MESSAGE SIGN, SPECIAL PER CALENDAR DAY FOR EACH MESSAGE SIGN UTILIZED.

TEMPORARY INFORMATION SIGNING

THE KANE COUNTY HIGHWAY DEPARTMENT REQUIRES THAT TEMPORARY INFORMATION SIGNING WILL BE ERRECTED ON THE NORTH AND SOUTH SIDE OF THE BRIDGE TO INFORM THE PUBLIC OF THE CONSTRUCTION DURATION. THE CONTRACTOR WILL COORDINATE WITH THE RESIDENT ENGINEER ON THE EXACT PLACEMENT OF THE SIGN. THE SIGN SHALL BE IN PLACE FOR THE ENTIRE DURATION OF THE CONTRACT OR AS DIRECTED BY THE RESIDENT ENGINEER. THE TEMPORARY SIGN WILL BE AS DIMENSIONED ON STD. TC22 EXCEPT THE MESSAGE SHALL BE AS DETAILED ON THE DETOUR PLAN. THE SIGNING, WHICH INCLUDES POST AND MOUNTING, WILL BE PAID AS TEMPORARY INFORMATION SIGNING, PER SQUARE FOOT SIGN ERRECTED.

CONTACTS

THE CONTRACTOR WILL BE REQUIRED TO COORDINATE ALL MAINTENANCE OF TRAFFIC OPERATIONS WITH ALL MUNICIPALITIES, TOWNSHIP, AND COUNTY ENTITIES WITHIN THE PROJECT LIMITS.

LIMITATION OF CONSTRUCTION

THE CONTRACTOR SHALL COORDINATE THE ITEMS OF WORK IN ORDER TO KEEP HAZARDS AND TRAFFIC INCONVENIENCES TO A MINIMUM, AS SPECIFIED BELOW:

1. DURING THE CONSTRUCTION WHEN THE ROADWAY IS NOT CLOSED, CONSTRUCTION OPERATIONS WILL BE CONDUCTED SO ONE LANE IN EACH DIRECTION ON COUNTY LINE ROAD REMAINS OPEN.
2. THE CONTRACTOR SHALL PROVIDE, ERRECT, AND MAINTAIN ALL THE NECESSARY SIGNS, BARRICADES, CONES, DRUMS, AND LIGHTS FOR THE WARNING AND PROTECTION OF TRAFFIC, AS REQUIRED BY SECTIONS 107 AND 701 THROUGH 703 OF THE STANDARD SPECIFICATIONS, AND AS MODIFIED.
3. THE CONTRACTOR SHALL FURNISH AND ERRECT "ROAD CONSTRUCTION AHEAD" SIGNS (W20-1 (O)-48) AT BOTH ENDS OF THE PROJECT AND AT ALL SIDE ROADS WITHIN THE LIMITS OF THIS SECTION WHEN WORKING IN THE VICINITY OF THE SIDE ROAD INTERSECTION.

OFF-PEAK HOURS

FOR CONSTRUCTION OPERATION OUTSIDE THE DESIGNATED DETOUR PERIOD, THE "OFF-PEAK" HOURS ARE DEFINED AS THE DAYTIME HOURS FROM 9:00 A.M. TO 3:00 P.M. AND NIGHT TIME HOURS FROM 9:00 P.M. TO 6:00 A.M., MONDAY THROUGH FRIDAY.

KEEPING ROADS OPEN TO TRAFFIC

THE CONTRACTOR SHALL SCHEDULE HIS SEQUENCE OF OPERATIONS TO PERMIT THE CONSTRUCTION OF THIS SECTION WITH THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC. THE CONTRACTOR'S SCHEDULE SHALL REFLECT THE FOLLOWING REQUIREMENTS AND SEQUENCE OF CONSTRUCTION. THESE REQUIREMENTS FOLLOW THE SUGGESTED TRAFFIC CONTROL PLAN INCLUDED IN THE DRAWINGS.

1. ACCESS TO FIELD AND PRIVATE ENTRANCES SHALL REMAIN OPEN AT ALL TIMES. ON PROPERTIES THAT HAVE MORE THAN ONE ACCESS, ONE ENTRANCE MAY BE TEMPORARILY CLOSED. HOWEVER, VEHICULAR ACCESS MUST REMAIN OPEN TO TRAFFIC FOR OPPOSITE ENTRANCE. WHEN IT IS NECESSARY TO CLOSE AN ENTRANCE, THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER AND THE PROPERTY OWNER FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. IN ALL CASES, THE ENTRANCE SHALL BE OPEN AT THE END OF THE WORKDAY.

TRAILER MOUNTED ARROW BOARD

UNLESS OTHERWISE REQUIRED BY A SPECIFIED TRAFFIC CONTROL STANDARD, THE USE OF A TRAILER MOUNTED ARROW BOARD(S) ARE NOT ANTICIPATED FOR THIS PROJECT.

SEQUENCE OF CONSTRUCTION

IN GENERAL, THE STAGING OF CONSTRUCTION FOR THIS SECTION SHALL BE AS FOLLOWS:

MAJOR WORK ITEMS - STAGE 1 COUNTY LINE ROAD

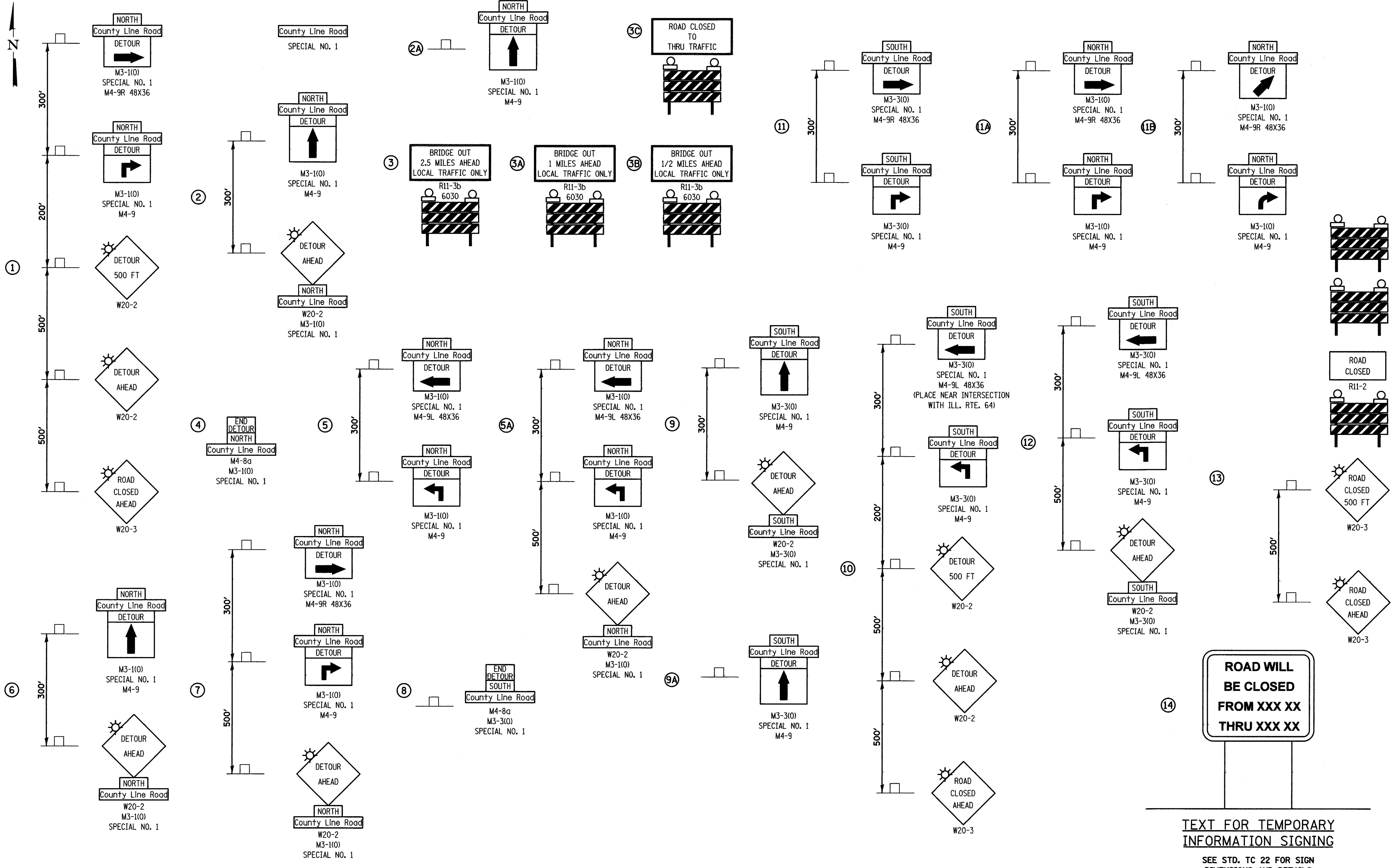
- COORDINATE UTILITY RELOCATES.
- SET UP CHANGEABLE MESSAGE BOARD.
- SET UP DETOUR AS DETAILED IN THE PLANS.
- SET UP TEMPORARY EROSION CONTROL MEASURES.
- REMOVE EXISTING VEGETATION, PAVEMENTS, AND BRIDGE STRUCTURES (SEE REMOVAL PLANS SHEETS).
- CONSTRUCT THE PROPOSED BRIDGE, SUBGRADE, AGGREGATE BASE COURSES, PAVEMENTS (TO SURFACE), AND UNDERDRAINS.
- CONSTRUCT GUARDRAILS AND SIGNAGE.

MAJOR WORK ITEMS - STAGE 2 - RESTORATION

THESE ITEMS MAY TAKE PLACE AFTER THE ROADWAY IS OPEN TO TRAFFIC.

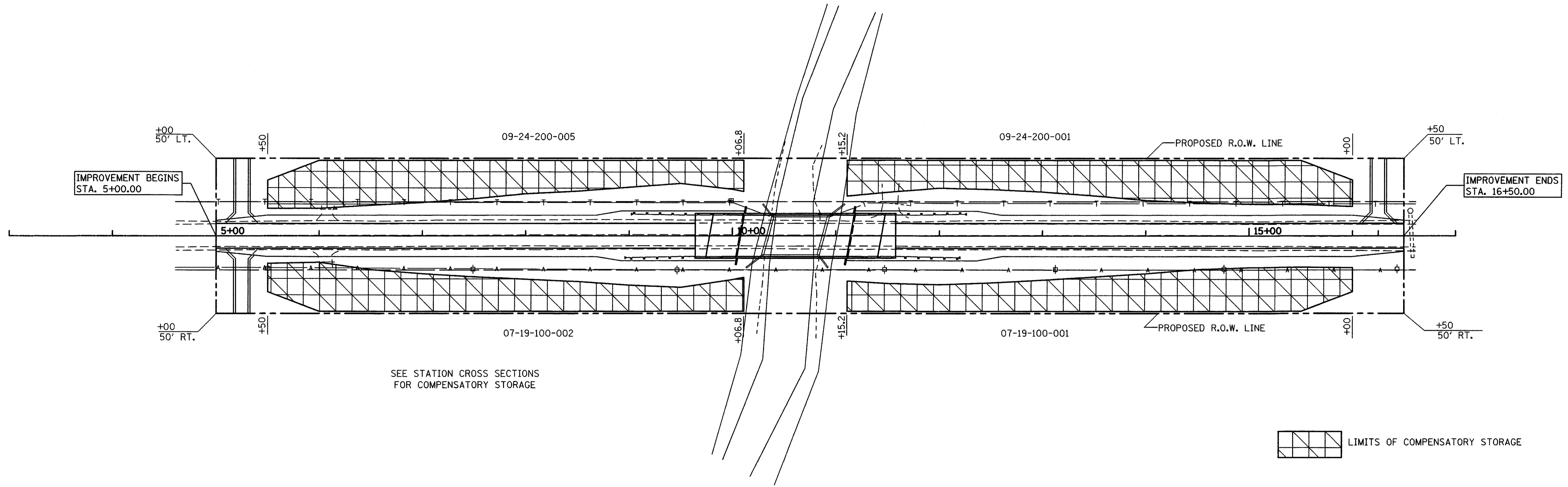
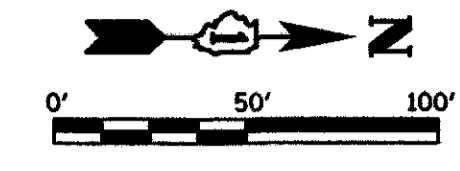
- PLACE PERMANENT RESTORATION.
- PLACE PERMANENT PAVEMENT MARKINGS.
- FINALIZE PUNCH LIST AND SITE CLEANUP.

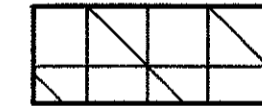
FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FIRM NO. 104-005205</small>	FILE NAME =	DESIGNED - G.J.C.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC DETOUR PLAN	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = cconnor	DRAWN - A.D.S./M.M.Y.	REVISED -			97	08-00024-01-BR	KANE	56	13
	PLOT SCALE = #SCALE#	CHECKED - R.D.F.	REVISED -			CONTRACT NO. 61A77				
	PLOT DATE = 8/23/2017	DATE - 8/23/2017	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



FILE NAME =	DESIGNED - G.J.C.	REVISED -
USER NAME = myoung	DRAWN - A.D.S./M.M.Y.	REVISED -
PLOT SCALE = #SCALE#	CHECKED - R.D.F.	REVISED -
PLOT DATE = 8/9/2017	DATE - 8/9/2017	REVISED -

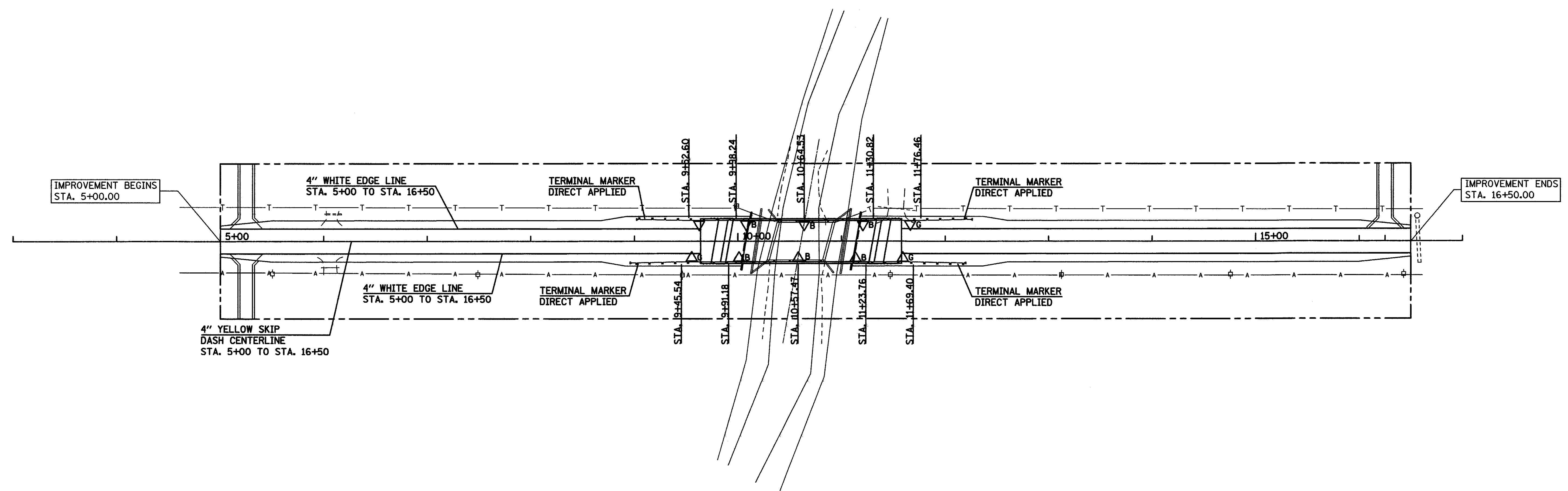
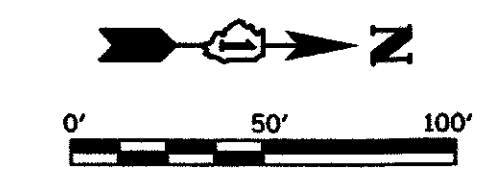
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	08-00024-01-BR	KANE	56	14
CONTRACT NO. 61A77				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



 LIMITS OF COMPENSATORY STORAGE

FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FIRM NO. 184-003525</small>	FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI	COMPENSATORY STORAGE		F.A.S. RTE. 97	SECTION 08-0024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 15	
USER NAME = myoung	DRAWN - A.D.S.	REVISED -			SCALE: #SCALES#		PROPOSED STRUCTURE @ STA.		CONTRACT NO. 61A77				
PLOT SCALE = #SCALE#	CHECKED - R.D.F.	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								
PLOT DATE = 8/9/2017	DATE - 8/9/2017	REVISED -			#13-224								

NOTE:
PAVEMENT MARKINGS SHALL BE
THERMOPLASTIC ON ALL SURFACES.



LEGEND

- \triangle_G GUARDRAIL MARKERS, TYPE A (78200410)
- \triangle_B BARRIER WALL MARKERS, TYPE B (78200520)

FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FIRM NO. 194-00355</small>	FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI	PAVEMENT MARKING & REFLECTOR MARKERS	F.A.S. RTE. 97	SECTION 08-00024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 16		
USER NAME = myoung	DRAWN - A.D.S.	REVISED -			SCALE: #SCALES#		PROPOSED STRUCTURE @ STA.	CONTRACT NO. 61A77		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
PLOT SCALE = #SCALE#	CHECKED - R.D.F.	REVISED -											
PLOT DATE = 8/9/2017	DATE - 8/9/2017	REVISED -											

NOTES

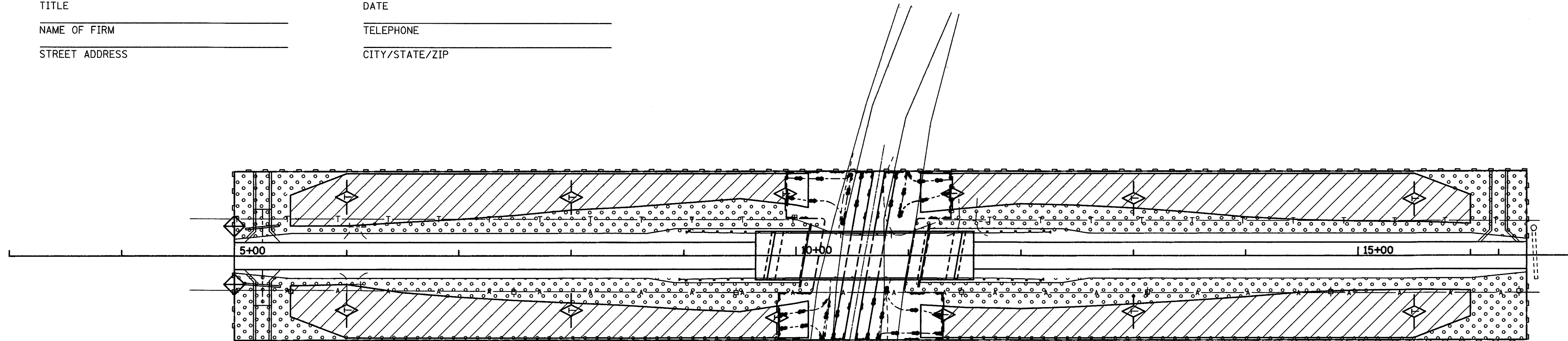
- A) ALL DISTURBED AREAS AND WORK AREAS MUST BE ISOLATED FROM CREEK FLOWS AT ALL TIMES. THE DIVERSION/ISOLATION OF THE CREEK FLOWS MUST BE CONSTRUCTED FROM NON-ERODIBLE MATERIALS. THE KDSWCD MUST BE IN AGREEMENT WITH OVERALL EXACT METHOD OF DIVERSION/ISOLATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- B) NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN OR NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
- C) STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA.

CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTATE DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (ILR 10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.



PRINT NAME _____	SIGNATURE _____
TITLE _____	DATE _____
NAME OF FIRM _____	TELEPHONE _____
STREET ADDRESS _____	CITY/STATE/ZIP _____



NOTE:
SEE 18 OF 56 FOR
EROSION CONTROL
NOTES AND DETAILS

SOIL PROTECTION CHART

STABILIZATION CHART	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDINGS (EMBANKMENT SLOPES)				A	→			A	→			
PERMANENT SEEDINGS (COMPENSATORY STORAGE AREA)					B	→				B	→	
PERMANENT SEEDINGS (COMPENSATORY STORAGE AREA)					C	→				C	→	
TEMPORARY SEEDINGS			D	→		E	→					
EROSION CONTROL BLANKET	F	→										

- A-IDOT: SEEDING, CLASS 2 ROADSIDE MIXTURE TALL FESCUE 100 LBS./AC. PERENNIAL RYEGRASS 50 LBS./AC. CREEPING RED FESCUE 40 LBS./AC. REDTOP 10 LBS./AC.
- B-IDOT: SEEDING, CLASS 4 (MODIFIED) WET TO MESIC PRAIRIE SEE SPECIAL PROVISIONS FOR MIXTURE REQUIREMENTS AND RATES
- C-IDOT: SEEDING, CLASS 5 (MODIFIED) WET TO MESIC PRAIRIE SEE SPECIAL PROVISIONS FOR MIXTURE REQUIREMENTS AND RATES
- D-SPRING OATS 100 LBS./AC.
- E-WHEAT OR CEREAL RYE 100 LBS./AC.
- F-EXCELSIOR BLANKET

LEGEND

- SEEDING CLASS 2A AND EROSION CONTROL BLANKET (EXCELSIOR BLANKET)
- SEEDING CLASS 4 (MODIFIED) SEEDING CLASS 5 (MODIFIED) AND EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER (TEMPORARY)
- INLET AND PIPE PROTECTION
- TEMPORARY AGGREGATE DITCH CHECKS TO BE PAID AS "AGGREGATE DITCH CHECKS" INCLUDING THE COST OF FILTER FABRIC.

FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FIRM NO. 104-002925</small>	FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI	EROSION CONTROL PLAN	F.A.S. RTE. 97	SECTION 08-00024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 17
USER NAME = myoung	DRAWN - A.D.S.	REVISED -					CONTRACT NO. 61A77				
PLOT SCALE = #SCALE#	CHECKED - R.D.F.	REVISED -				SCALE: #SCALE#	PROPOSED STRUCTURE @ STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
PLOT DATE = 8/8/2017	DATE - 8/8/2017	REVISED -									

EROSION CONTROL INSPECTION

ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH 1/2" RAIN EVENT.

WINTER SHUT DOWN

A WINTER SHUT DOWN IS NOT ANTICIPATED FOR THIS PROJECT. BUT IN THE EVENT THAT UNAVOIDABLE CIRCUMSTANCE REQUIRE A WINTER SHUT DOWN, THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUT DOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

TEMPORARY DITCH CHECKS

THE PLANS HAVE A PLAN ALLOWANCE FOR FOUR (4) TEMPORARY DITCH CHECKS. THE DITCH CHECKS WILL BE REQUIRED AT THOSE LOCATIONS WHERE THE CONTRACTORS OPERATIONS REQUIRE TEMPORARY DITCHES OR SWALES. THE EXACT LOCATION WILL BE COORDINATED IN THE FIELD WITH THE ENGINEER.

PROTECTING STOCK PILE AREAS

CONTRACTOR MAY OPT TO STOCK PILE MATERIALS. STAGING OF PROJECT IS AT HIS/HER DISCRETION AND COORDINATION OF STOCK PILES WILL BE WITH ENGINEER, TOWNSHIP AND KANE COUNTY. STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES, NOT BEING ACTIVELY WORKED AND TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

KEEPING PAVEMENTS CLEAN

THE CONTRACTOR WILL KEEP ALL PERMANENT PAVEMENT SURFACES CLEAN OF DIRT OR CONSTRUCTION DEBRIS. THE PAVEMENT SHALL BE CLEANED AT THE END OF EACH DAYS OPERATION OR MORE FREQUENTLY AS REQUIRED BY THE ENGINEER IF THE DEBRIS IS DEEMED TO BE HAZARD TO THE MOTORING PUBLIC.

GENERAL NOTES

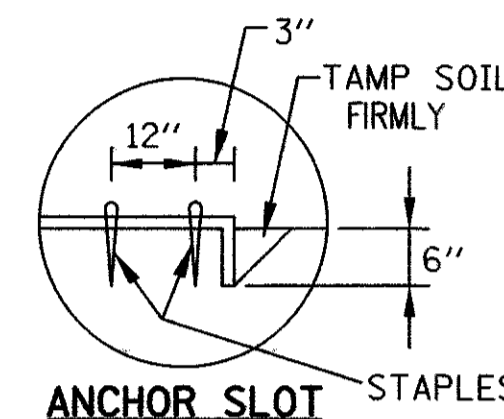
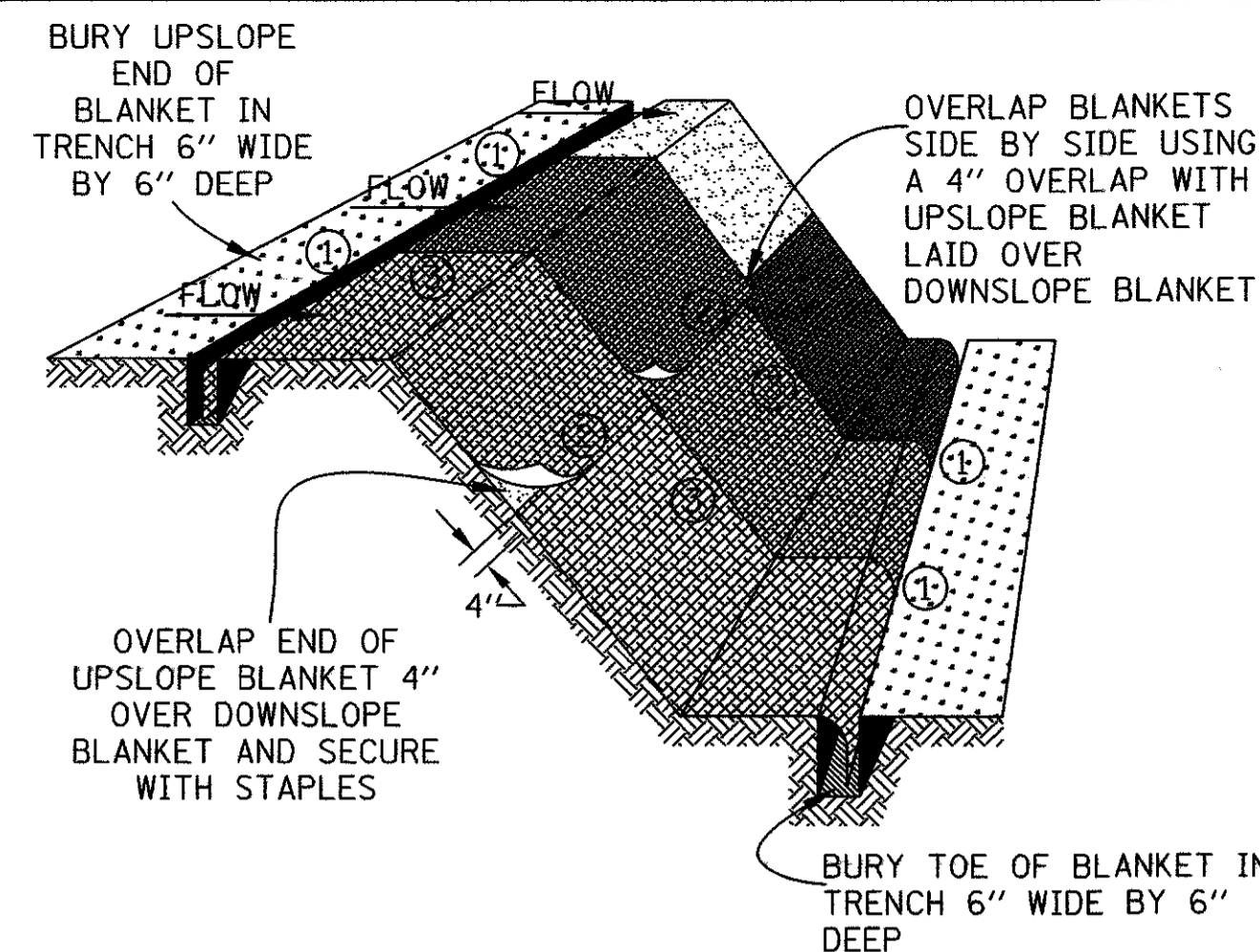
- THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.
- DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS PROHIBITED.
- IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.

CONSTRUCTION SEQUENCE NOTES

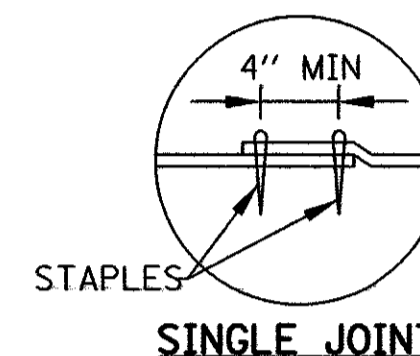
- CONSTRUCTION OF A DRAINAGE DITCH EMBANKMENT AND RIP RAP ARE ANTICIPATED TO REQUIRE WORK WITHIN THE DRAINAGE DITCH, WORK MUST BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS.
- BYPASS IS NOT ANTICIPATED FOR THIS PROJECT. HOWEVER, IF BYPASS IS NECESSARY, THE INLET OF THE HOSE SHALL BE PLACED IN A SUMP PIT AND THE OUTLET PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE DRAINAGE DITCH FLOW.
- IF DEWATERING THE CONSTRUCTION AREA IS NECESSARY, ALL WATERS SHALL BE FILTERED BY USING FILTER BAGS OR AN ALTERNATIVE MEASURE. WATER MUST HAVE SEDIMENT REMOVED BEFORE BEING ALLOWED TO RETURN TO THE ORIGINAL DRAINAGE DITCH.
- THE SIDE SLOPES MUST BE RESEEDED AND STABILIZED WITH AN APPROPRIATE EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS. THE BOTTOM OF THE SWALE MUST BE BROUGHT BACK TO ITS ORIGINAL GRADE AND STABLE ENOUGH TO ACCEPT FLOWS.

DEWATERING - BASIS OF PAYMENT

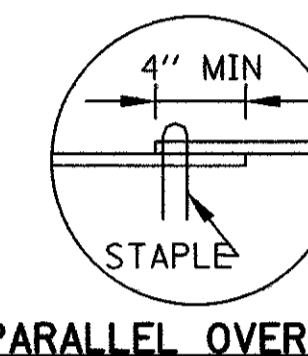
DEWATERING FOR ALL CONSTRUCTION OPERATIONS WILL NOT BE MEASURED SPERATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF CONCRETE STRUCTURES. DEWATERING WILL INCLUDE MEANS, METHODS AND ALL MATERIALS TO DEWATER AND TO PROVIDE FILTRATION OF WATERS BEFORE RE-ENTERING THE DRAINAGE DITCH.



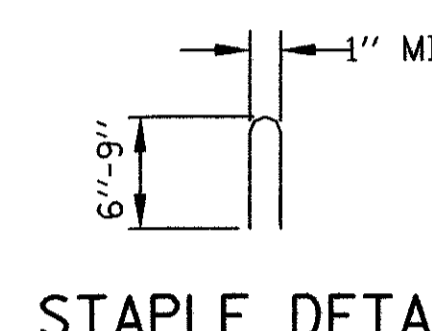
ANCHOR SLOT



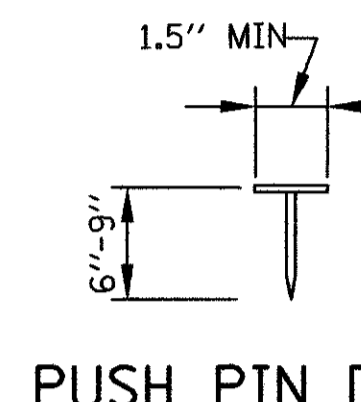
SINGLE JOINT



PARALLEL OVERLAPS



STAPLE DETAIL



PUSH PIN DETAIL

DETAIL 1

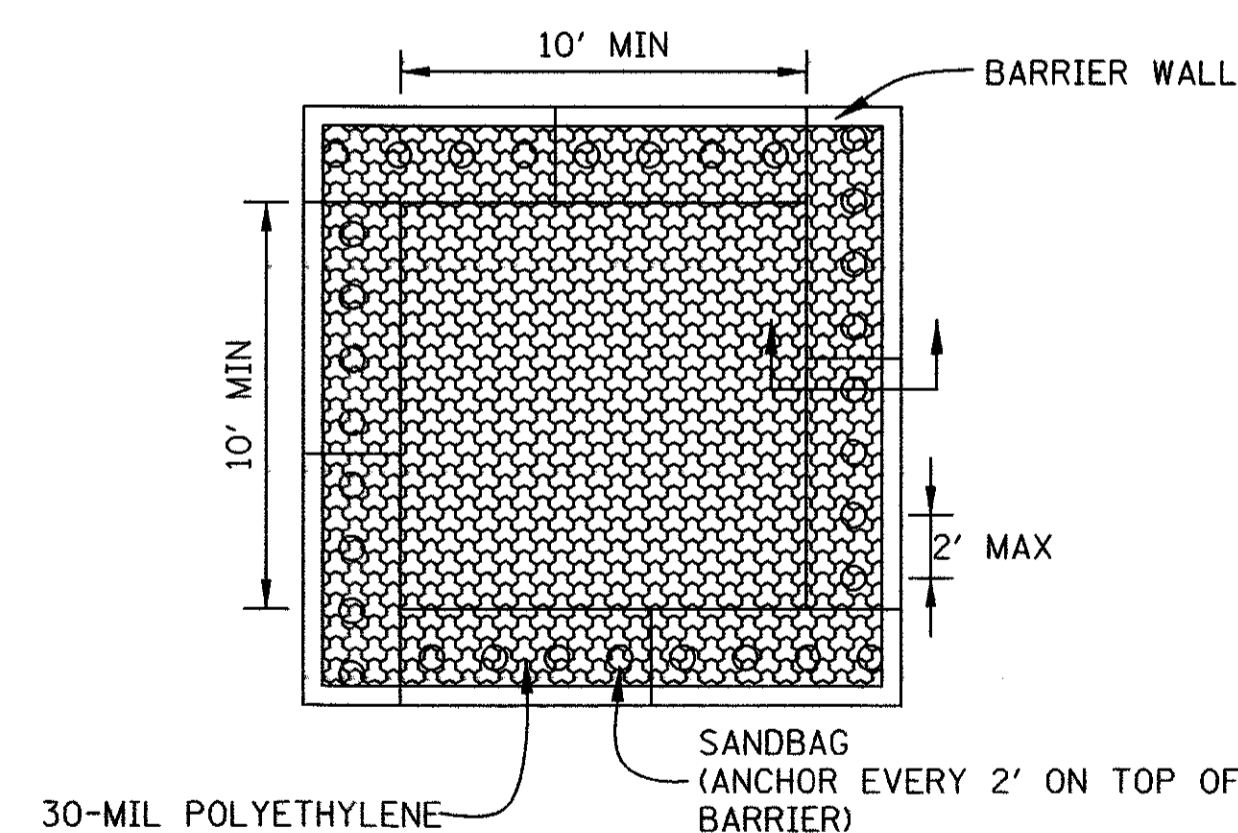
DETAIL 2

DETAIL 3

NOTES:

- STAPLES SHALL BE PLACED IN A DIAMOND PATTERN AT 2 PER S.Y. FOR STICHED BLANKETS. NON-STICHED SHALL USE 4 STAPLES PER S.Y. OF MATERIAL. THIS EQUATES TO 200 STAPLES WITH STICHED BLANKET AND 400 STAPLES WITH NON-STICHED BLANKET PER 100 S.Y. OF MATERIAL.
- STAPLE OR PUSH PIN LENGTHS SHALL BE SELECTED BASED ON SOIL TYPE AND CONDITIONS. (MINIMUM STAPLE LENGTH IS 6")
- EROSION CONTROL MATERIAL SHALL BE PLACED IN CONTACT WITH THE SOIL OVER A PREPARED SEEDBED.
- ALL ANCHOR SLOTS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

EROSION CONTROL BLANKET INSTALLATION DETAILS

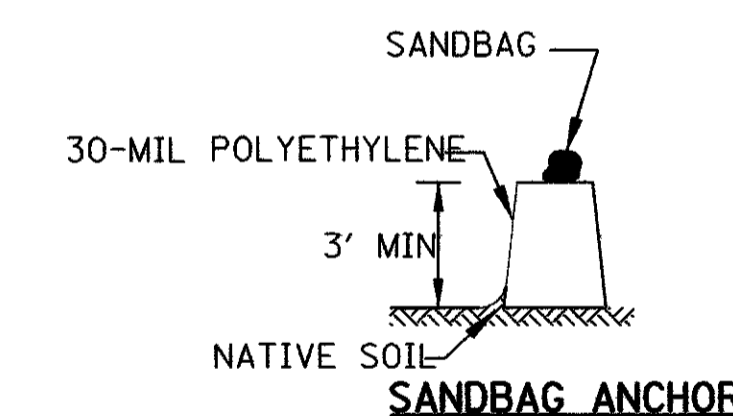


PLAN VIEW

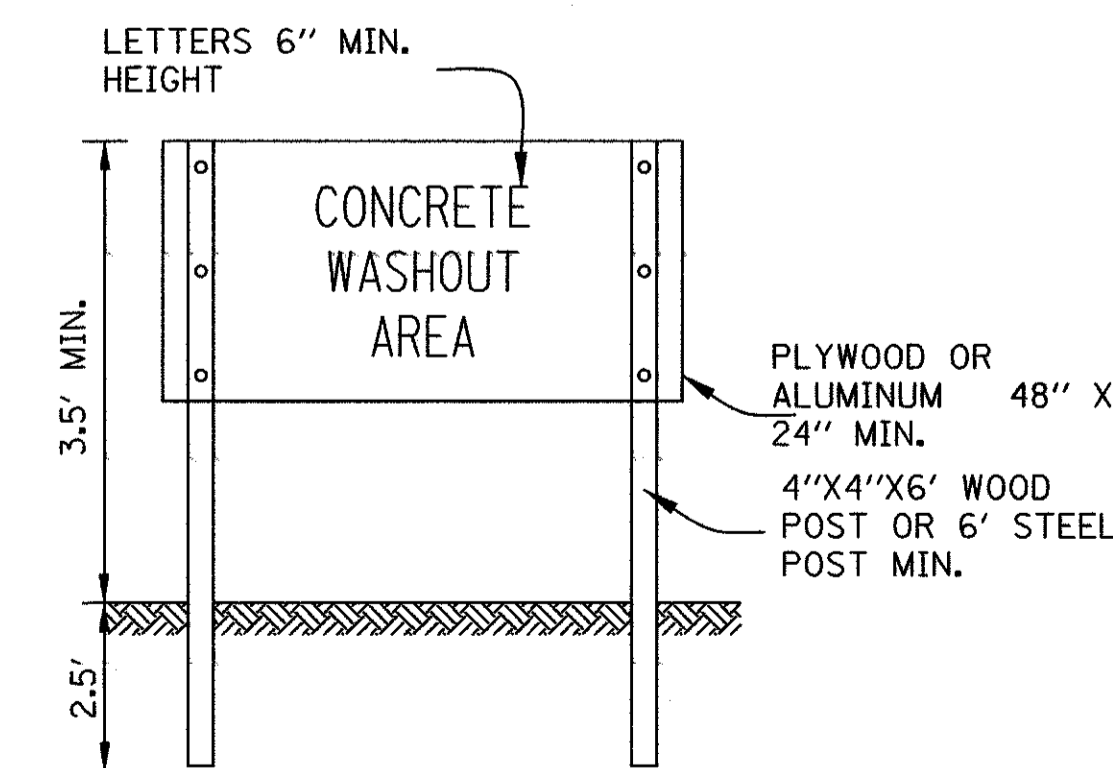
NOTES:

- MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND/OR SLURRY AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION.
- FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.

TEMPORARY CONCRETE WASHOUT FACILITY



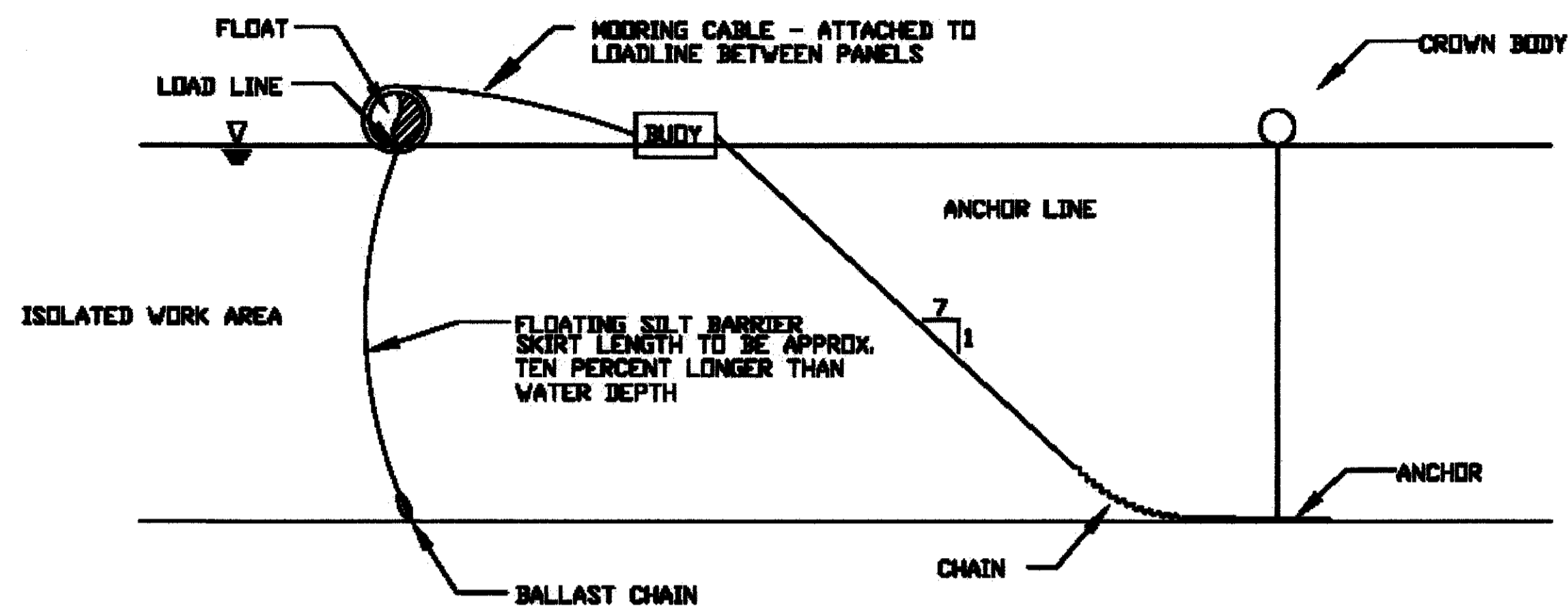
BARRIER WALL ANCHOR SECTION



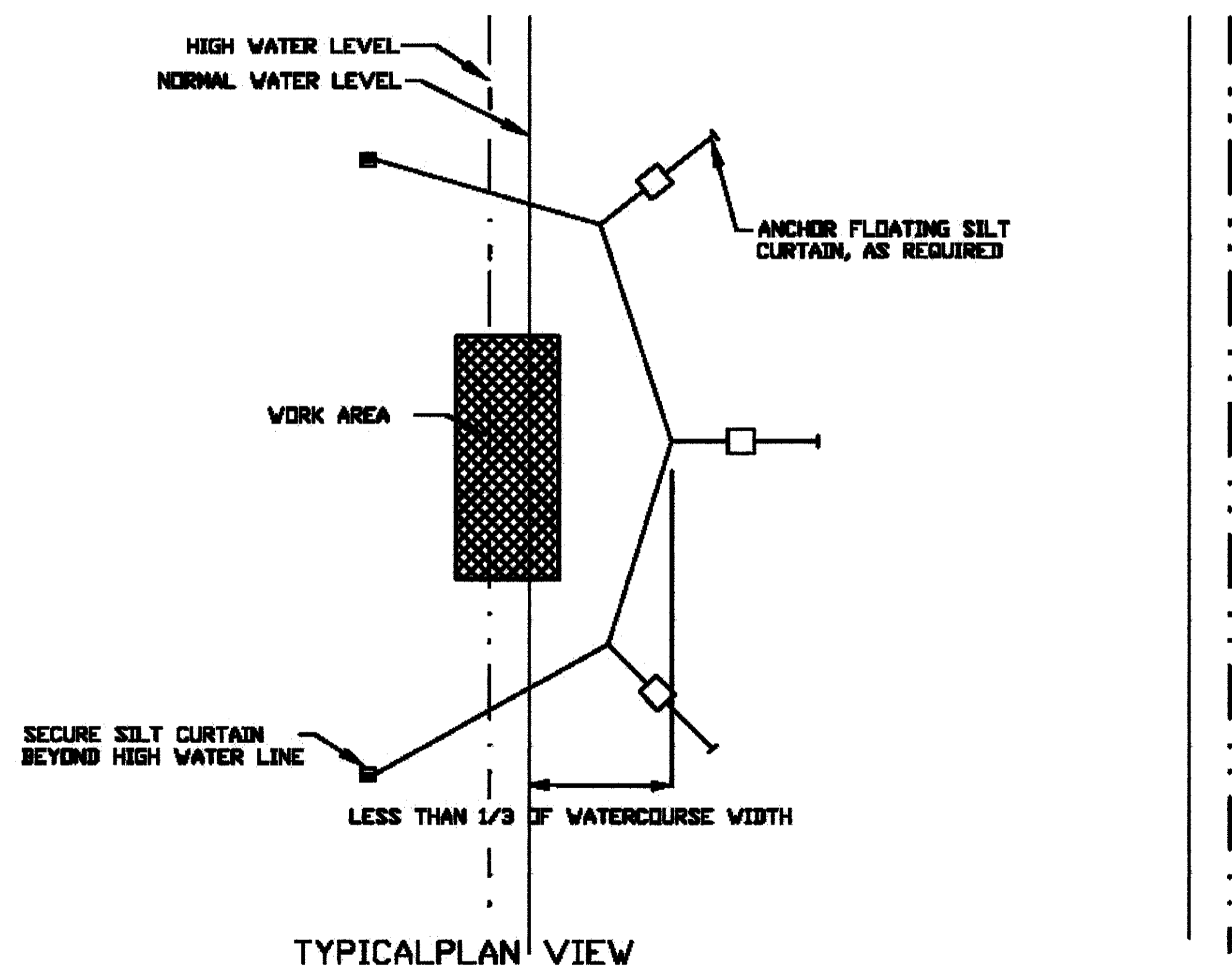
SIGN DETAIL

FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE	FREEPORT, IL	ROCKFORD, IL	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
USER NAME = myoung	DRAWN - A.D.S.	REVISED -	SPRINGFIELD, IL. 62704	ROCHELLE, IL	SPRINGFIELD, IL	97	08-00024-01-BR	KANE	56	18	
PLOT SCALE = #SCALE#	CHECKED - R.D.F.	REVISED -	(217) 544-8477	FEHR GRAHAM		EROSION CONTROL NOTES & DETAILS		CONTRACT NO. 61A77			
PLOT DATE = 8/8/2017	DATE - 8/8/2017	REVISED -	www.fehr-graham.com	ENGINEERING & ENVIRONMENTAL		SCALE: #SCALE#		PROPOSED STRUCTURE @ STA.			
						ILLINOIS DESIGN FIRM NO. 104-00282		MONROE, WI		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

FLOATING SILT CURTAIN - TYPICAL LAYOUT



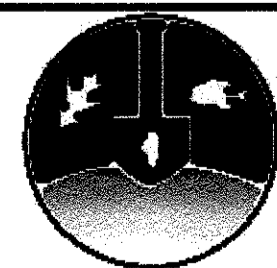
TYPICAL COMPONENTS / ANCHORAGE SYSTEM



TYPICAL PLAN VIEW

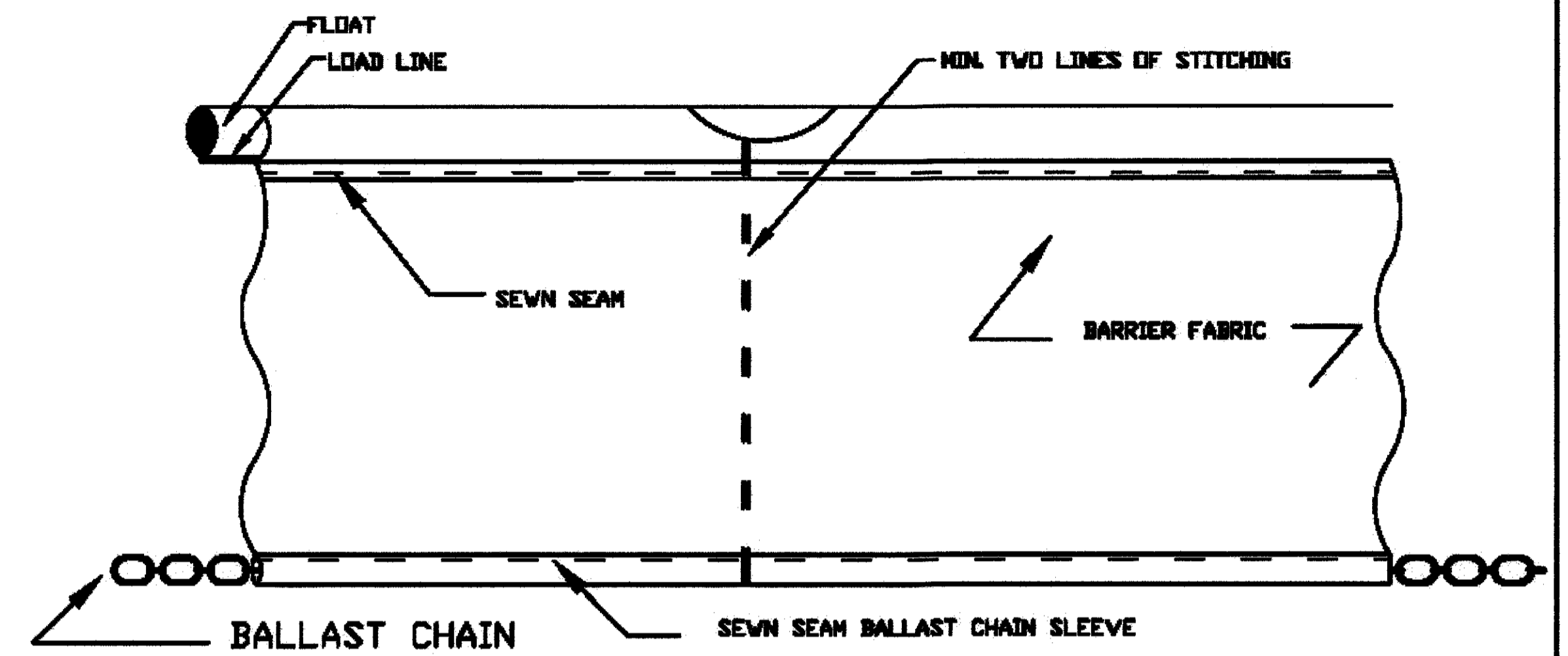
Maximum flow for waterbody shall be less than 5fps.
 Isolated work area shall not exceed more than 1/3 stream width.
 Silt curtain shall be placed parallel to stream flow.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____

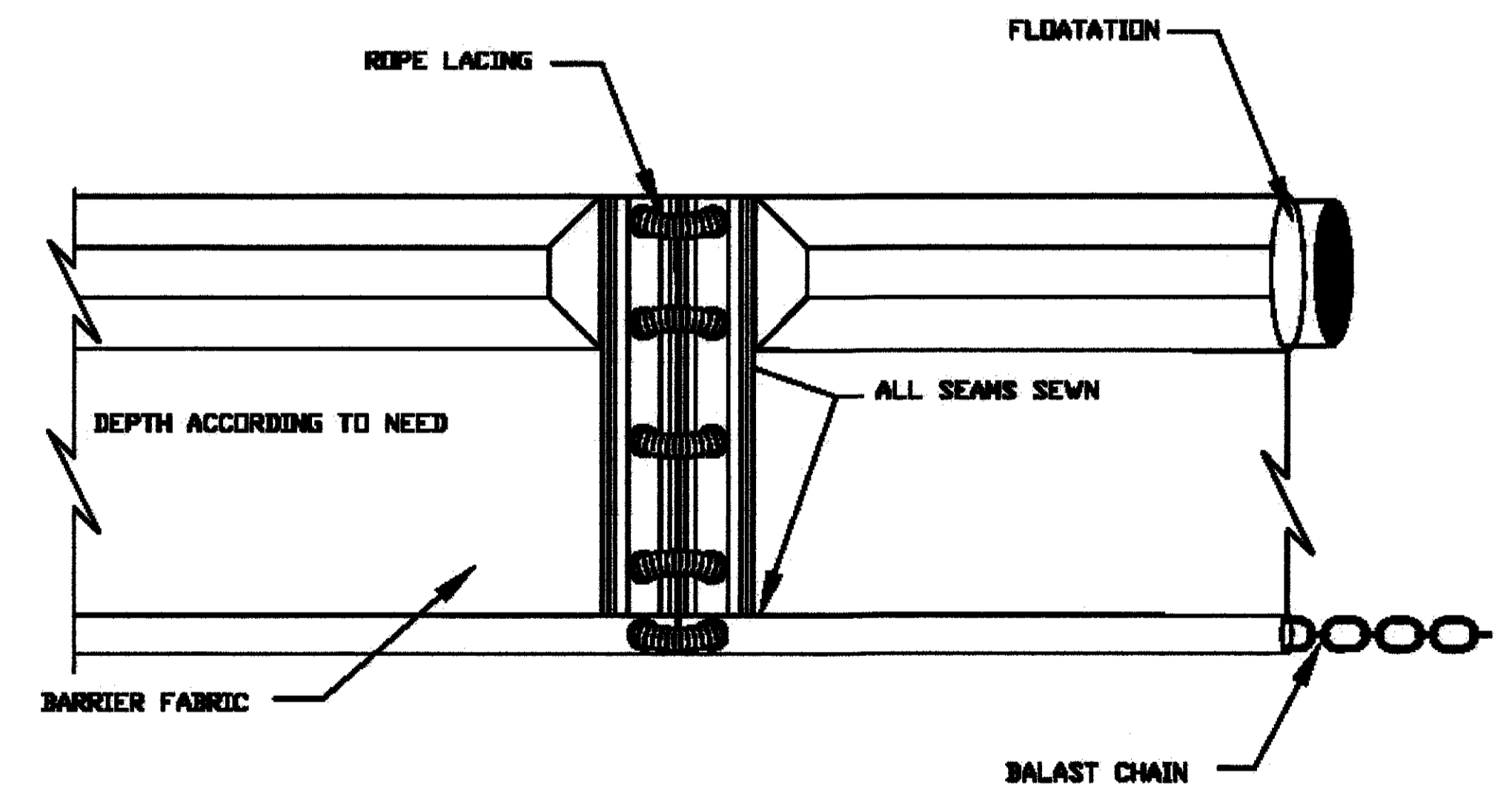


STANDARD DWG. NO.
IUM-617A
 SHEET 1 OF 1
 DATE 1-06-2012

FLOATING SILT CURTAIN - PANEL CONNECTORS

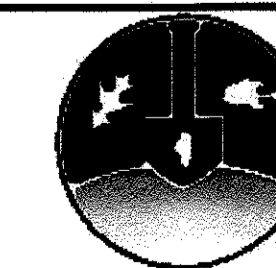


SEWN SEAM



GROMMETED HOLES WITH ROPE LACING

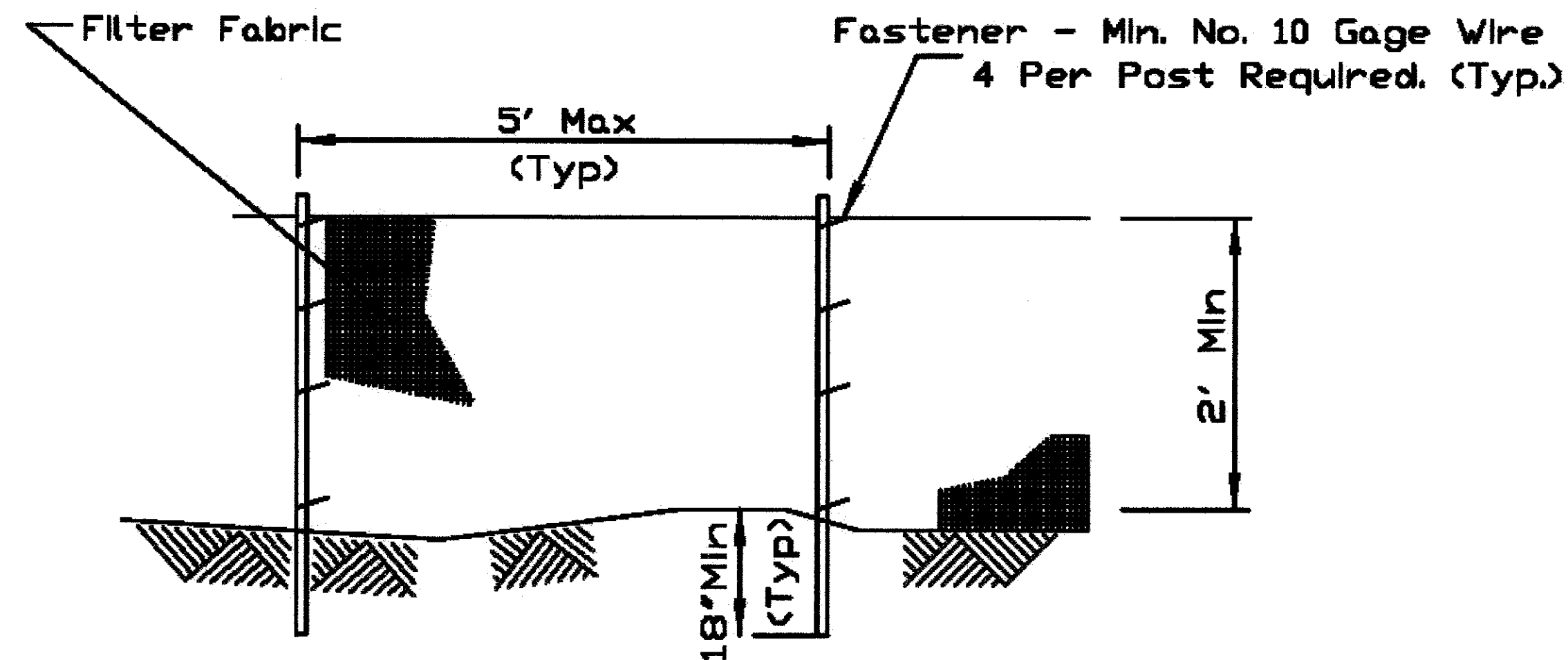
REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



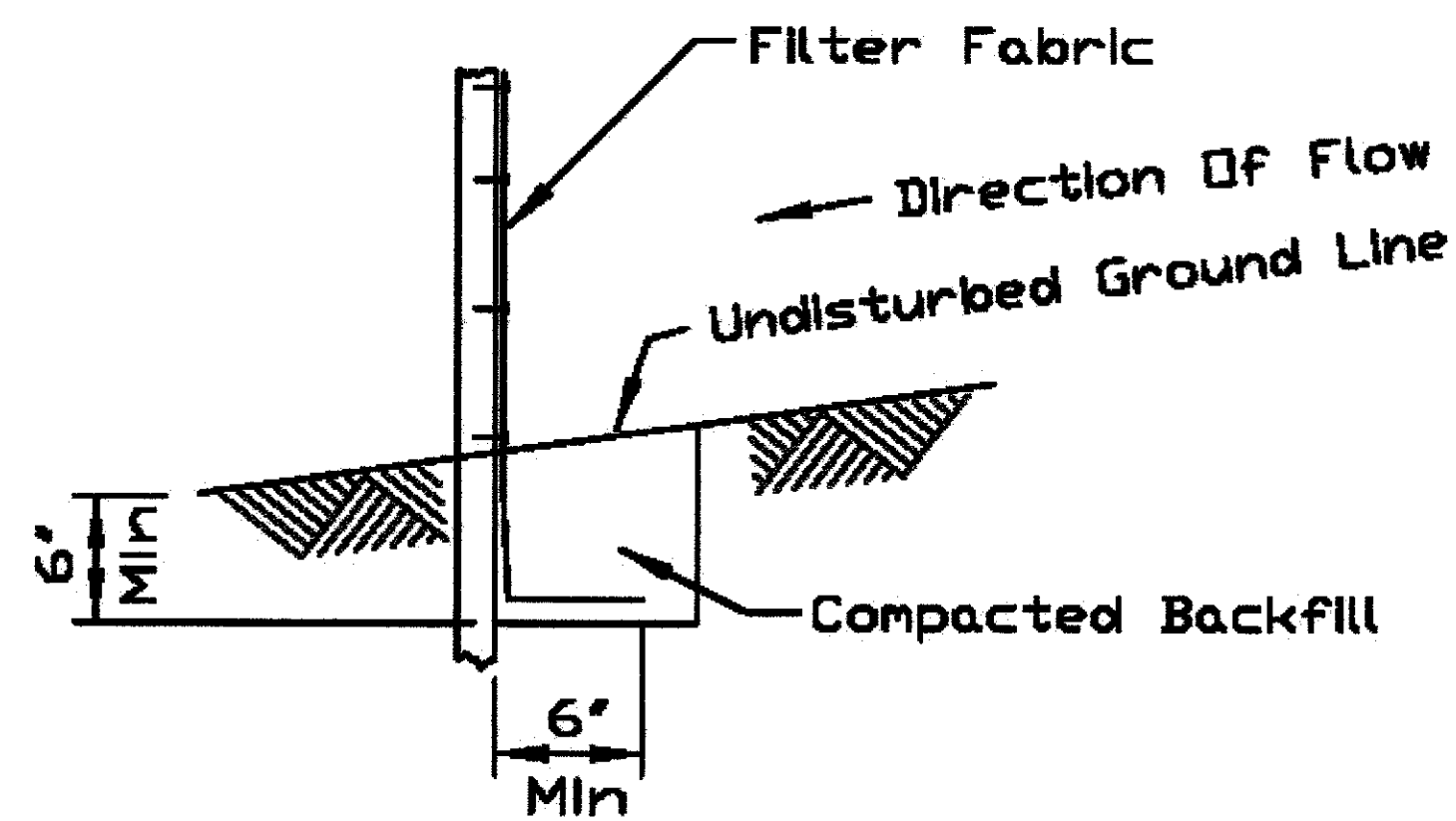
STANDARD DWG. NO.
IUM-617B
 SHEET 1 OF 1
 DATE 1-6-2012

FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FIRM NO. 104-00305</small>	FREEPORT, IL	ROCKFORD, IL	SCALE: #SCALES#	PROPOSED STRUCTURE @ STA.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = myoung	DRAWN - A.D.S.	REVISED -			ROCHELLE, IL	SPRINGFIELD, IL			97	08-00024-01-BR	KANE	56	19
PLOT SCALE = #SCALE#	CHECKED -	REVISED -			MONROE, WI				CONTRACT NO. 61A77		ILLINOIS FED. AID PROJECT		
PLOT DATE = 8/9/2017	DATE - 8/9/2017	REVISED -											

SILT FENCE PLAN



ELEVATION

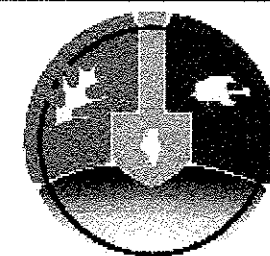


FABRIC ANCHOR DETAIL

NOTES:

1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.
IUM-620A
SHEET 1 OF 2
DATE 3-16-12

FILE NAME =	DESIGNED - G.J.C.	REVISED -
USER NAME = myoung	DRAWN - A.D.S.	REVISED -
PLOT SCALE = #SCALE#	CHECKED -	REVISED -
PLOT DATE = 8/9/2017	DATE - 8/9/2017	REVISED -

2060 W. ILES AVENUE
SPRINGFIELD, IL. 62704
(217) 544-8477
www.fehr-graham.com

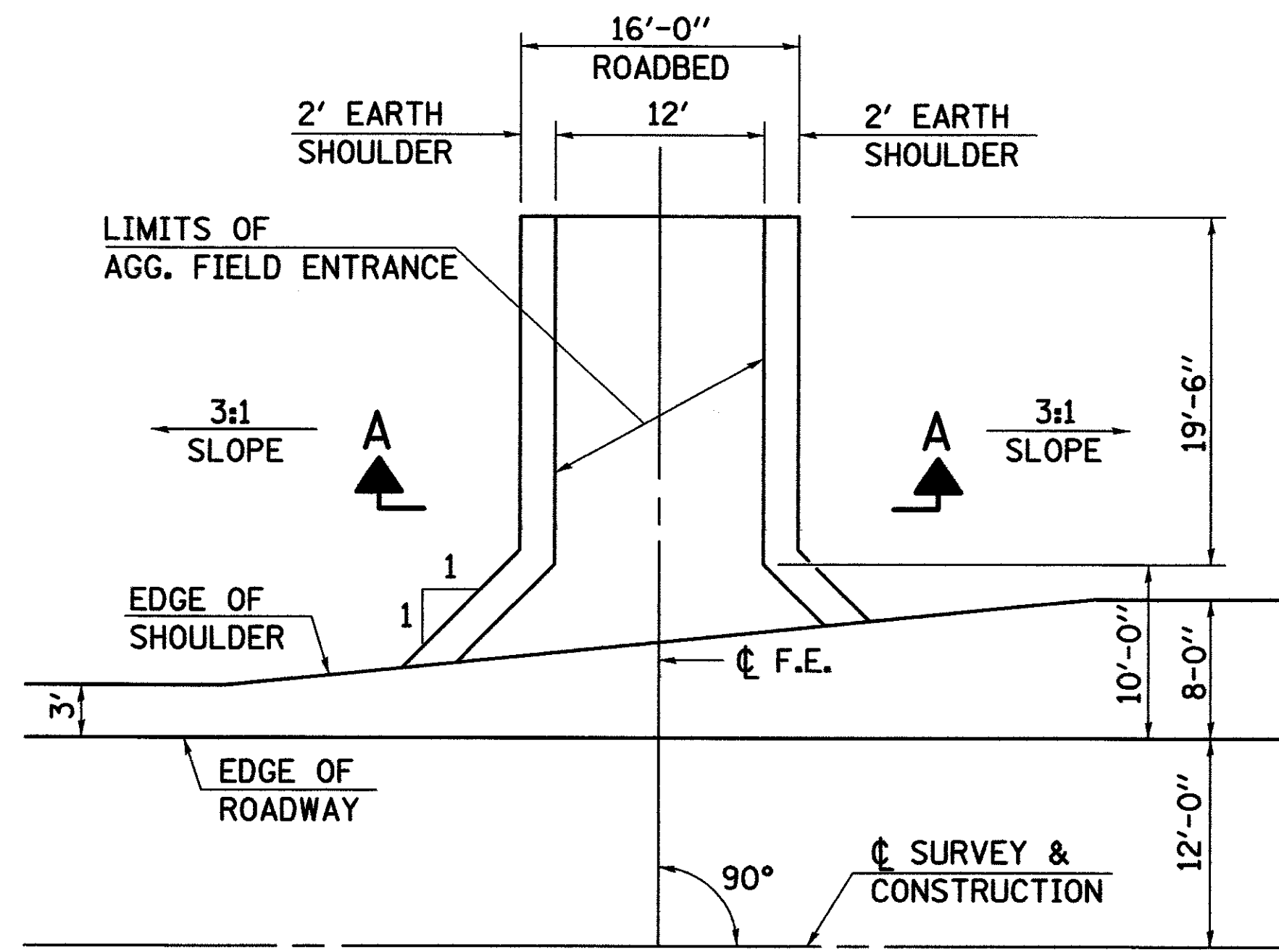
FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-00355

FREEPORT, IL ROCKFORD, IL
ROCHELLE, IL SPRINGFIELD, IL
MONROE, WI

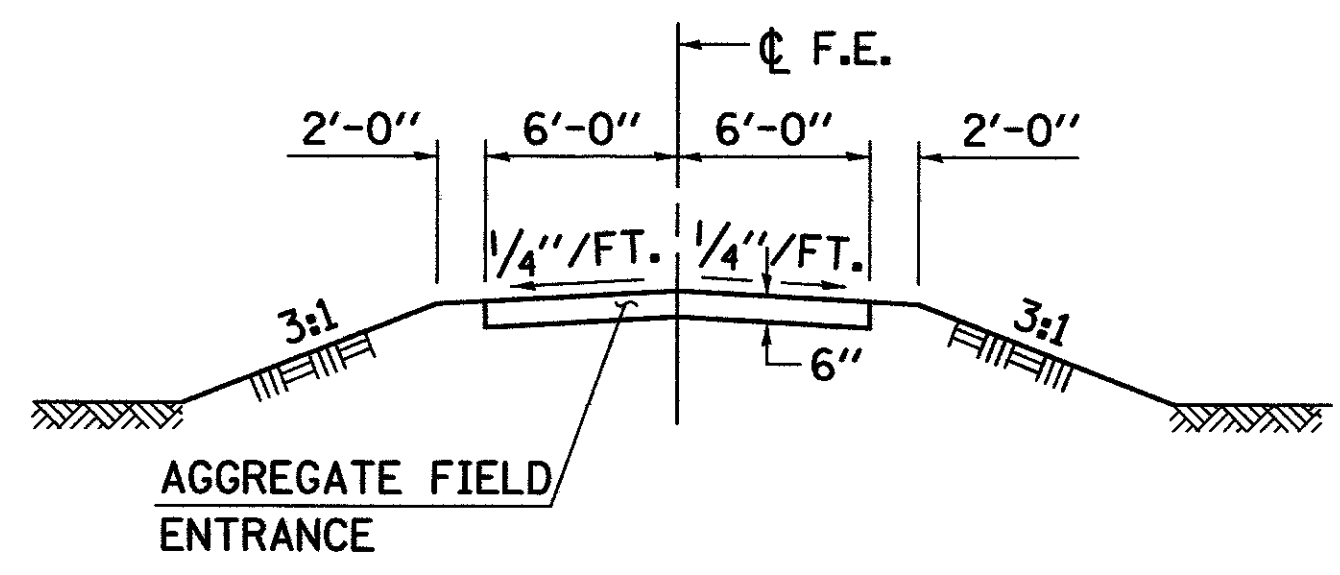
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PROPOSED STRUCTURE @ STA.

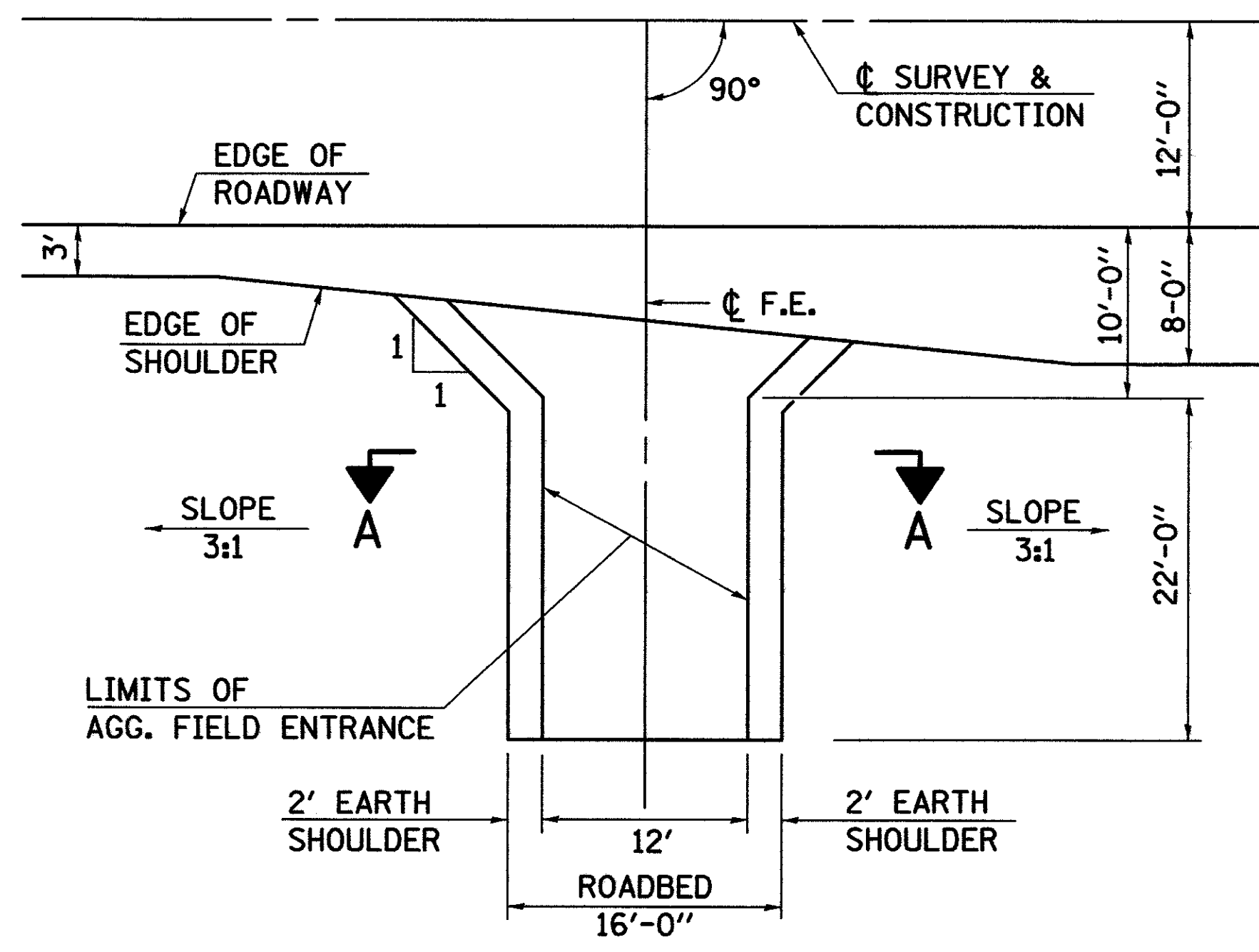
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	08-00024-01-BR	KANE	56	20
CONTRACT NO. 61A77				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



FIELD ENTRANCE DETAIL
 F.E. LT. STA. 5+25
 F.E. LT. STA. 16+25



SECTION A-A
AGGREGATE FIELD ENTRANCE



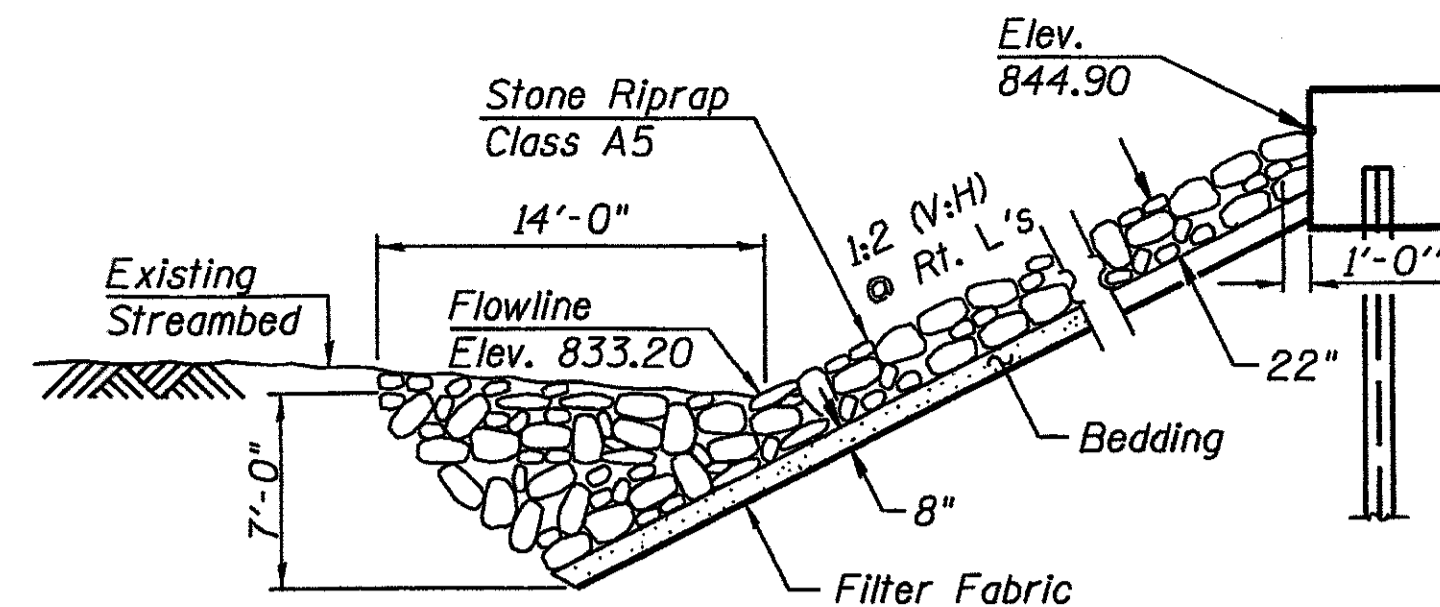
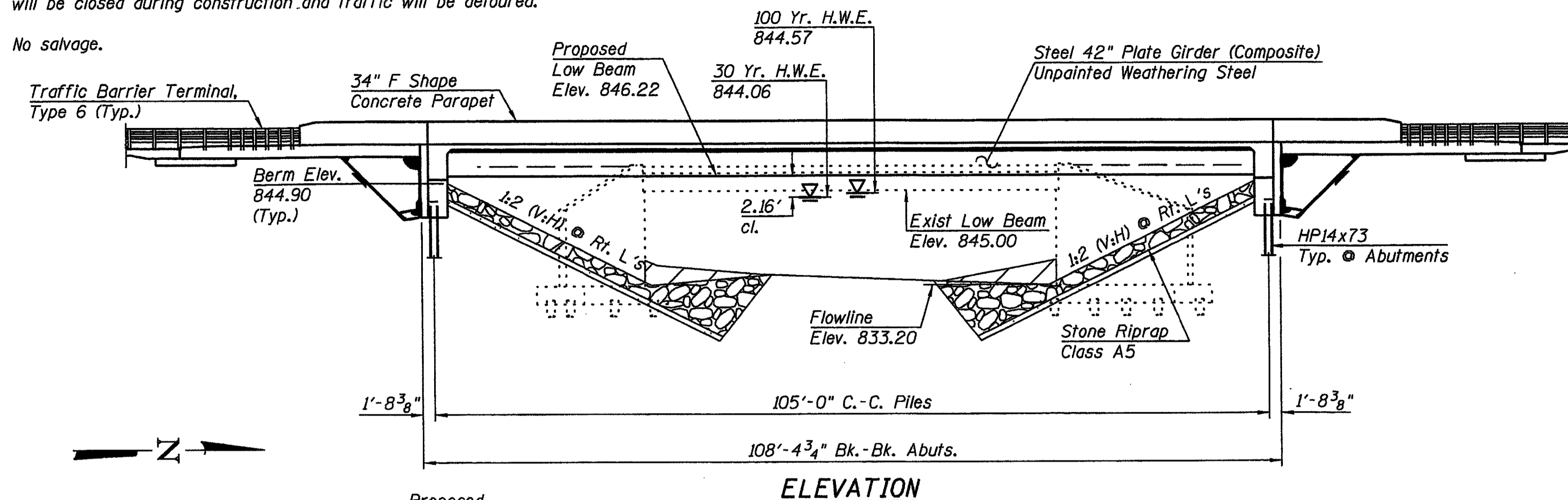
FIELD ENTRANCE DETAIL
 F.E. RT. STA. 5+25

FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525	FREEPORT, IL	ROCKFORD, IL	ENTRANCE DETAILS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
USER NAME = myoung	DRAWN - A.D.S.	REVISED -			ROCHELLE, IL	SPRINGFIELD, IL		97	08-00024-01-BR	KANE	56	21	
PLOT SCALE = #SCALE#	CHECKED - R.D.F.	REVISED -			MONROE, WI			SCALE: #SCALE#		PROPOSED STRUCTURE @ STA. 10+61		CONTRACT NO. 61A77	
PLOT DATE = 8/9/2017	DATE - 8/9/2017	REVISED -			ILLINOIS FED. AID PROJECT								

Bench Mark:
 Railroad spike in power pole North of the bridge on the East side of the road.
 32.57' Rt., Sta. 11+47.25, Elevation 844.44

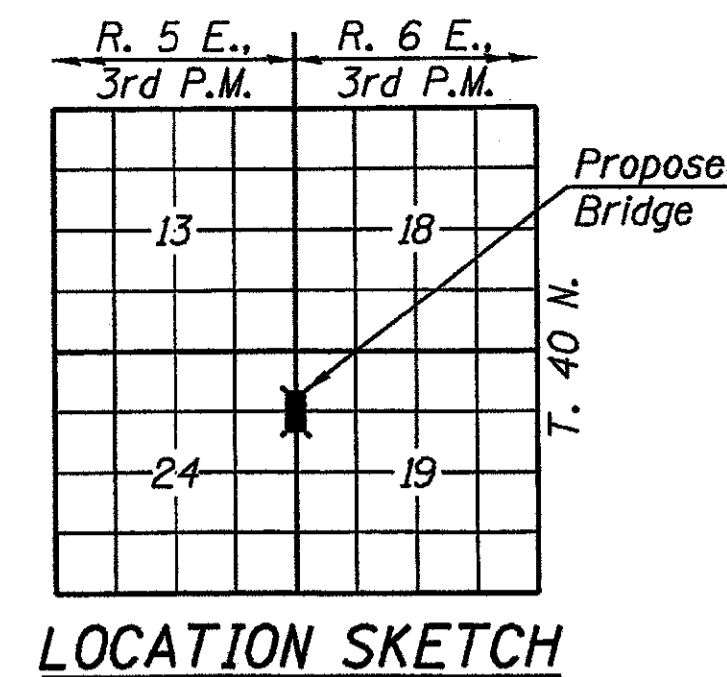
Existing Structure:
 The existing structure, S.N. 045-3000, is a single span precast prestressed concrete deck beam bridge with a bituminous wearing surface. The bridge is skew 15° left forward with the center of the structure located at Sta. 10+61. The structure has an overall length of 56'-0" back to back of abutments and a width of 36'-4" out to out of deck. The superstructure is supported by closed reinforced concrete abutments with timber pile supported footings. The bridge will be closed during construction and traffic will be detoured.

No salvage.



RIPRAP PLACEMENT DETAIL

Note: Excavation and aggregate bedding will not be paid for as separate items and shall be considered as included in Stone Riprap, Class A5.



WATERWAY INFORMATION

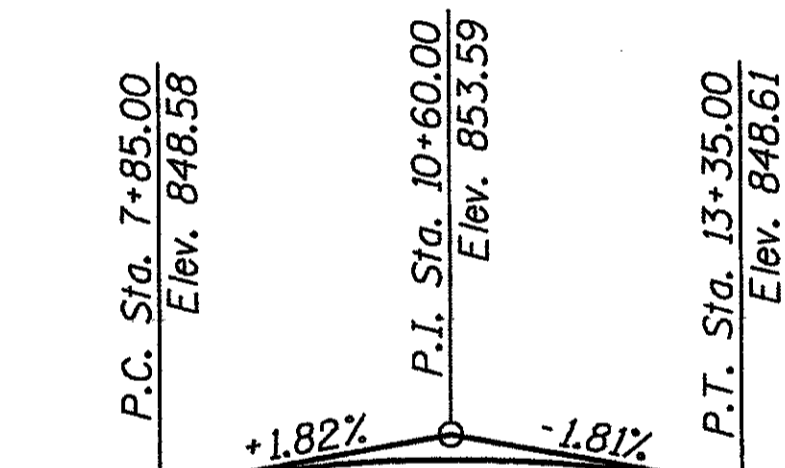
Drainage Area = 59.93 sq. mi.
 Existing Low Grade Elev. 845.65 ft. @ Sta. 16+50
 Proposed Low Grade Elev. 845.65 ft. @ Sta. 16+50

Flood	Discharge (cfs)	Waterway Opening (sq. ft.)	Natural H.W.E.	Head (ft.)		Headwater Elev.				
				Existing	Proposed	Existing	Proposed			
10	Main Channel	4442	4442	416	744	843.54	0.27	0.00	843.81	843.48
	Over the Road	0	0	0	0					
	Total	4442	4442	416	744					
Design 30	Main Channel	6260	6260	511	774	844.06	1.35	0.00	845.41	843.84
	Over the Road	0	0	0	0					
	Total	6260	6260	511	774					
100 and Overtopping	Main Channel	3516	4939	511	798	844.57	2.51	1.18	847.08	845.75
	Over the Road	4805	3382	2189	13					
	Total	8321	8321	2700	811					
500	Main Channel	3031	7685	511	959	845.59	1.91	1.75	847.50	847.34
	Over the Road	10614	5963	4027	2351					
	Total	13648	13648	4538	3310					

ELEVATION

INDEX OF SHEETS

- General Plan and Elevation
- General Notes, Bill of Materials and Miscellaneous Details
- 5. Top of Slab Elevations
6. Top of South Approach Slab Elevations
7. Top of North Approach Slab Elevations
- Superstructure
- Diaphragm Details
- Superstructure Details
- 11.-12. Bridge Approach Slab Details
- Structural Steel
- Structural Steel Details
- Bearing Details
- Abutments
- Steel Pile Details
- Soil Boring Log, B-1
- Soil Boring Log, B-2



PROPOSED PROFILE GRADE

DESIGN STRESSES

f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (M270 Grade 50W)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S₀₁) = 0.087
 Design Spectral Acceleration at 0.2 sec. (S₀₅) = 0.156
 Soil Site Class = D

DESIGN SPECIFICATIONS

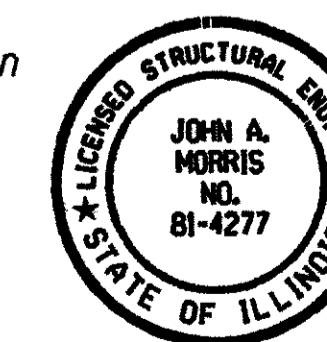
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

LOADING HL-93

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

"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the specified 'AASHTO LRFD Bridge Design Specifications'."

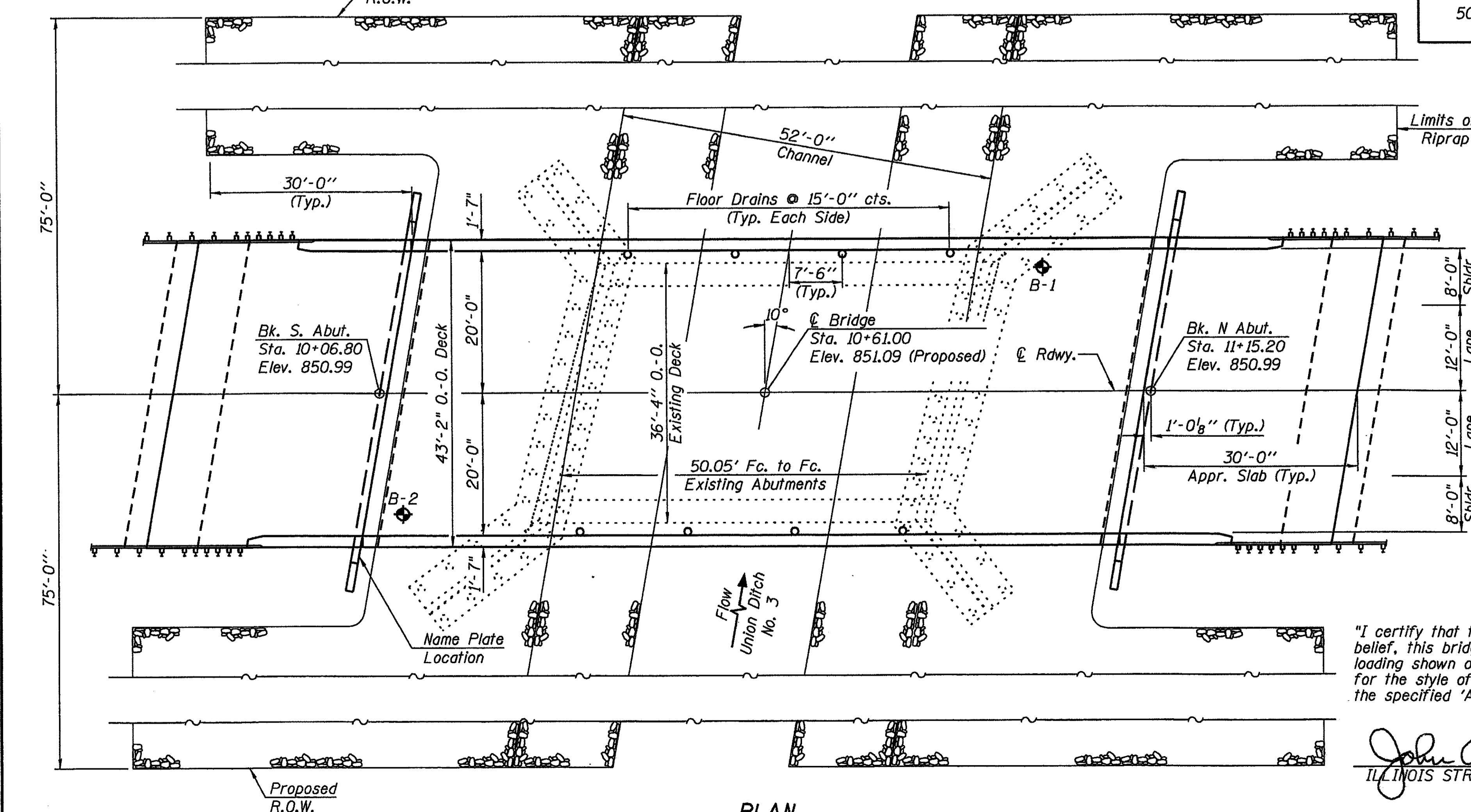
John A. Morris 12/1/15
 ILLINOIS STRUCTURAL NO. 4277 (Expires 11/30/16)



**GENERAL PLAN & ELEVATION
 COUNTY HIGHWAY 1 (F.A.S. RTE. 97)**

SECTION 08-0024-01-BR

KANE COUNTY
 STATION 10+61
 S.N. 045-3066



PLAN

FILE NAME =	USER NAME = rfitzenko	DESIGNED - A.L.S.	REVISED -
FILES		CHECKED - R.E.A.	REVISED -
	PLOT SCALE = #SCALE*	DRAWN - A.D.S.	REVISED -
	PLOT DATE = 1/27/2016	CHECKED - R.E.A.	REVISED -

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-002525
 FREEPORT, IL ROCKFORD, IL
 ROCHELLE, IL SPRINGFIELD, IL
 MENROE, WI

GENERAL PLAN & ELEVATION
 S.N. 045-3066
 SHEET NO. 1 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	08-0024-01-BR	KANE	56	22
				CONTRACT NO. LIA 77
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Fasteners shall be high strength bolts ASTM A325 Type 3).
Bolts 3/4 in. φ, holes 5/16 in. φ, unless otherwise noted.

Calculated weight of Structural Steel = 163,820 lbs.

All structural steel shall be AASHTO M 270 Grade 50W.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings. Two 1/8" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates and shims.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 1/8 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

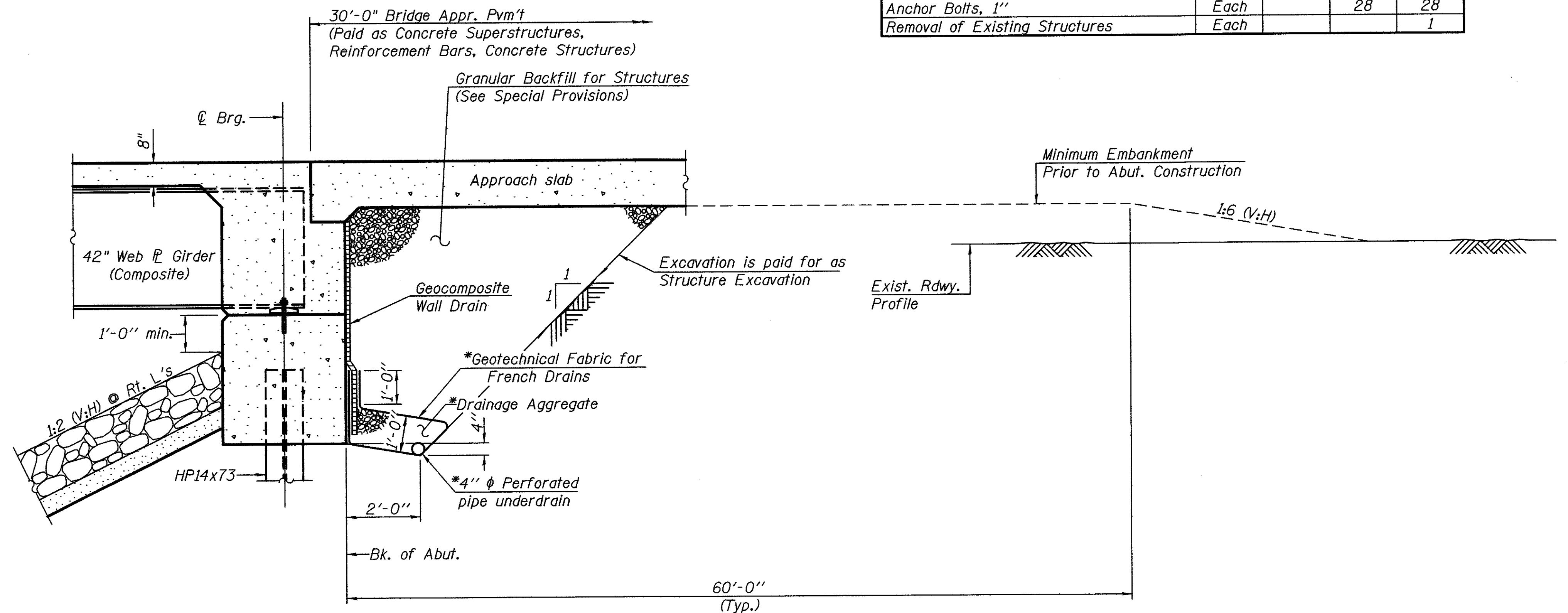
The Contractor shall drive one steel test pile in a permanent location at each abutment as directed by the Engineer, before ordering the remainder of piles.

Slipform parapets shall not be permitted.

Removal of existing structures shall be done in accordance with Section 501 of the Standard Specifications. Existing footings, or portions thereof, may remain within limits of proposed stone riprap toe sections at streambed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Granular Backfill for Structures	Cu. Yd.		158	158
Stone Riprap, Class A5	Ton		3,305	3,305
Filter Fabric	Sq. Yd.		2,030	2,030
Structure Excavation	Cu. Yd.		171	171
Concrete Structures	Cu. Yd.		77.0	77.0
Concrete Superstructure	Cu. Yd.	311.4		311.4
Bridge Deck Grooving	Sq. Yd.	702		702
Protective Coat	Sq. Yd.	862		862
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	2,184		2,184
Reinforcement Bars, Epoxy Coated	Pound	71,710	9,480	81,190
Furnishing Steel Piles HP14x73	Foot		1,200	1,200
Driving Piles	Foot		1,200	1,200
Test Pile, HP14x73	Each		2	2
Name Plates	Each		1	1
Pipe Underdrains for Structures 4"	Foot		172	172
Geocomposite Wall Drain	Sq. Yd.		100	100
Floor Drains	Each	8		8
Anchor Bolts, 1"	Each		28	28
Removal of Existing Structures	Each			1



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

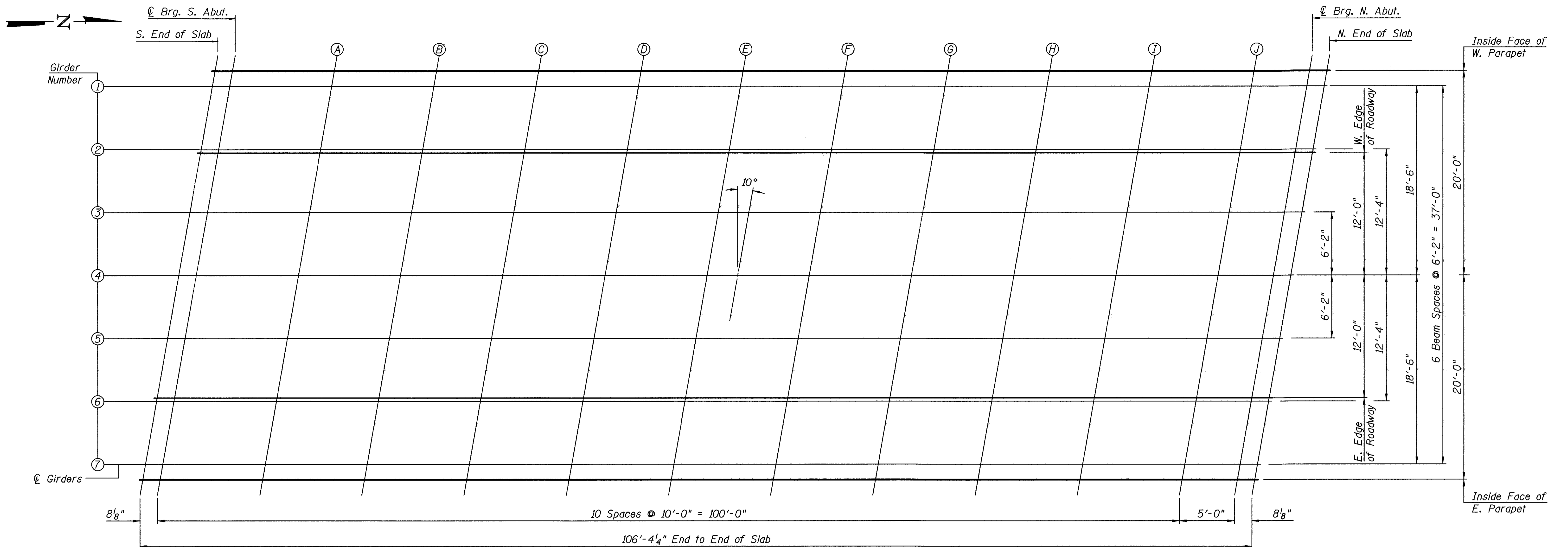
*Included in the cost of Pipe Underdrains for Structures.
(See Special Provisions)

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101). Concrete Headwalls for Pipe Underdrains are included in the cost of Pipe Underdrains for Structures.

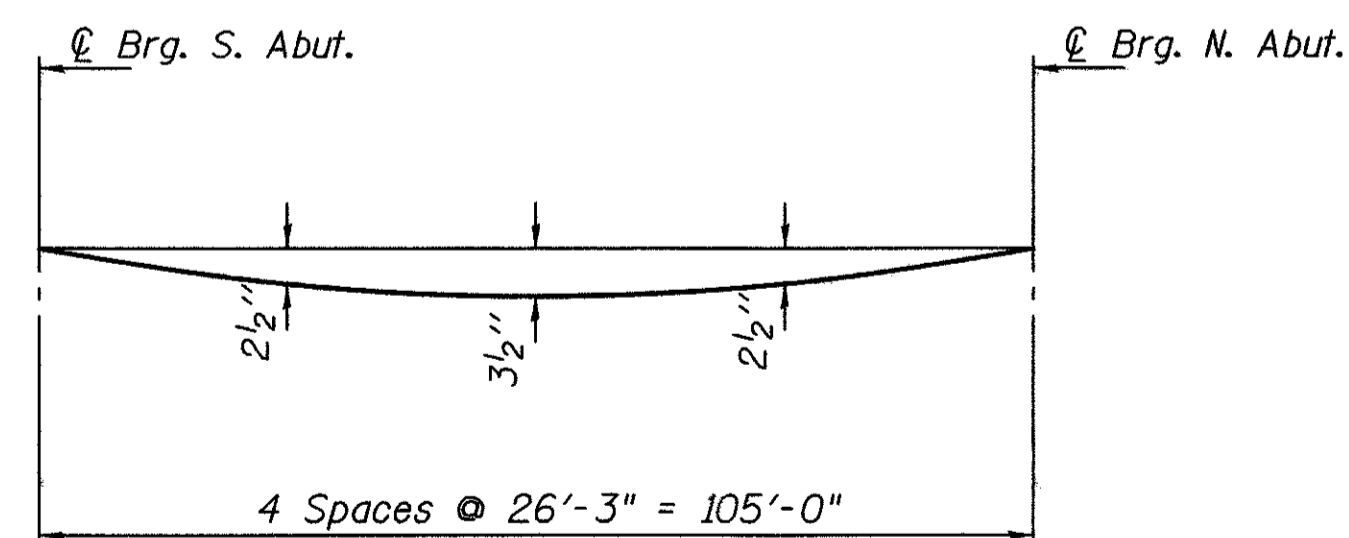
UNION DITCH NO. 3
BUILT 20__ BY
KANE COUNTY
SEC. 08-00024-01-BR
DEKALB COUNTY
SEC.08-00224-00-BR
F.A.S. RT. 97 STA. 10+61
STR. NO. 045-3066
LOADING HL-93

LETTERING FOR NAME PLATE
See Std. 515001

FILE NAME = 13-224_GEN-NOTES.dgn	USER NAME = myoung	DESIGNED - A.L.S.	REVISED -	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 104-00585	FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI	GENERAL NOTES, BILL OF MATERIALS, AND MISCELLANEOUS DETAILS S.N. 045-3066	F.A.S. RTE. 97	SECTION 08-00024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 23
	PLOT SCALE = #SCALE#	DRAWN - A.D.S.	REVISED -				CONTRACT NO. 61A77				
PLOT DATE = 8/9/2017	CHECKED - R.E.A.	REVISED -		SHEET NO. 2 OF 19 SHEETS			ILLINOIS FED. AID PROJECT			#13-224	



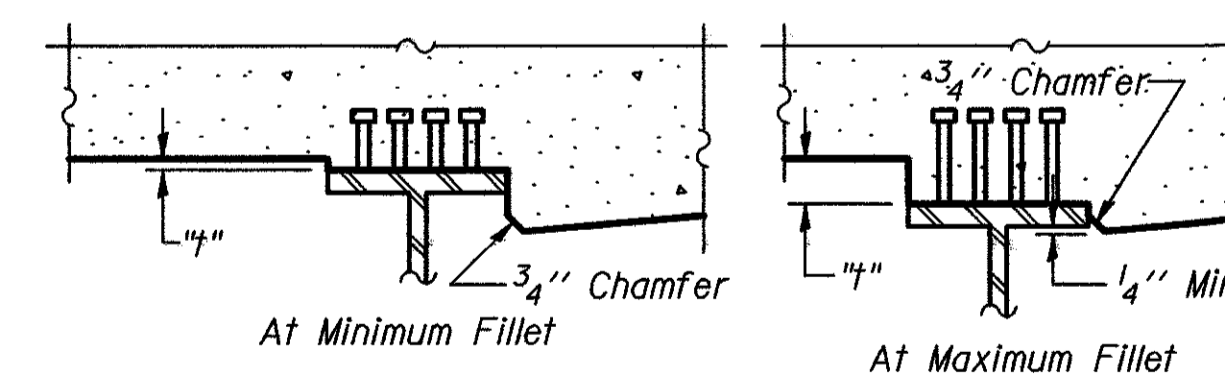
PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note: 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 on Sheets 4 & 5 of 19.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 4 & 5 of 19, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

FILE NAME = 13-224.SLAB.dgn	USER NAME = myoung	DESIGNED - A.L.S.	REVISED -	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FIRM NO. 104-00225</small>	FREEPORT, IL	ROCKFORD, IL	TOP OF SLAB ELEVATION S.N. 045-3066 SHEET NO. 3 OF 19 SHEETS	F.A.S. RTE. 97	SECTION 08-00024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 24	
	PLOT SCALE = *SCALE*	CHECKED - R.E.A.	REVISED -		ROCHELLE, IL	SPRINGFIELD, IL							
	PLOT DATE = 8/9/2017	DRAWN - A.D.S.	REVISED -		MONROE, WI								
		CHECKED - R.E.A.	REVISED -										

CONTRACT NO. 61A77
ILLINOIS FED. AID PROJECT

INSIDE FACE OF W. PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	10+11.349	-20.000	850.660	850.660
☉ Brg. S. Abut.	10+12.026	-20.000	850.662	850.662
A	10+22.026	-20.000	850.691	850.770
B	10+32.026	-20.000	850.714	850.871
C	10+42.026	-20.000	850.729	850.949
D	10+52.026	-20.000	850.738	850.990
E	10+62.026	-20.000	850.741	851.025
F	10+72.026	-20.000	850.737	851.005
G	10+82.086	-20.000	850.726	850.961
H	10+92.026	-20.000	850.709	850.906
I	11+02.026	-20.000	850.685	850.803
J	11+12.026	-20.000	850.654	850.694
☉ Brg. N. Abut.	11+17.026	-20.000	850.636	850.636
N. End of Slab	11+17.703	-20.000	850.634	850.634

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	10+11.085	-18.500	850.691	850.691
☉ Brg. S. Abut.	10+11.762	-18.500	850.693	850.693
A	10+21.762	-18.500	850.722	850.801
B	10+31.762	-18.500	850.744	850.902
C	10+41.762	-18.500	850.760	850.979
D	10+51.762	-18.500	850.769	851.021
E	10+61.762	-18.500	850.772	851.056
F	10+71.762	-18.500	850.768	851.036
G	10+81.762	-18.500	850.757	850.993
H	10+91.762	-18.500	850.740	850.938
I	11+01.762	-18.500	850.717	850.835
J	11+11.762	-18.500	850.686	850.726
☉ Brg. N. Abut.	11+16.762	-18.500	850.669	850.669
N. End of Slab	11+17.439	-18.500	850.666	850.666

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	10+09.998	-12.333	850.815	850.815
☉ Brg. S. Abut.	10+10.675	-12.333	850.817	850.817
A	10+20.675	-12.333	850.847	850.926
B	10+30.675	-12.333	850.870	851.028
C	10+40.675	-12.333	850.887	851.106
D	10+50.675	-12.333	850.897	851.149
E	10+60.675	-12.333	850.900	851.184
F	10+70.675	-12.333	850.897	851.165
G	10+80.675	-12.333	850.887	851.123
H	10+90.675	-12.333	850.871	851.068
I	11+00.675	-12.333	850.848	850.966
J	11+10.675	-12.333	850.818	850.858
☉ Brg. N. Abut.	11+15.675	-12.333	850.801	850.801
N. End of Slab	11+16.352	-12.333	850.798	850.798

W. EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	10+09.939	-12.000	850.822	850.822
☉ Brg. S. Abut.	10+10.616	-12.000	850.824	850.824
A	10+20.616	-12.000	850.854	850.933
B	10+30.616	-12.000	850.877	851.035
C	10+40.616	-12.000	850.894	851.113
D	10+50.616	-12.000	850.904	851.156
E	10+60.616	-12.000	850.907	851.191
F	10+70.616	-12.000	850.904	851.172
G	10+80.616	-12.000	850.894	851.130
H	10+90.616	-12.000	850.878	851.075
I	11+00.616	-12.000	850.855	850.973
J	11+10.616	-12.000	850.825	850.865
☉ Brg. N. Abut.	11+15.616	-12.000	850.808	850.808
N. End of Slab	11+16.293	-12.000	850.805	850.805

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	10+08.910	-6.167	850.909	850.909
☉ Brg. S. Abut.	10+09.587	-6.167	850.912	850.912
A	10+19.587	-6.167	850.942	851.021
B	10+29.587	-6.167	850.966	851.124
C	10+39.587	-6.167	850.983	851.203
D	10+49.587	-6.167	850.994	851.246
E	10+59.587	-6.167	850.998	851.282
F	10+69.587	-6.167	850.996	851.264
G	10+79.587	-6.167	850.986	851.222
H	10+89.587	-6.167	850.971	851.168
I	10+99.587	-6.167	850.948	851.067
J	11+09.587	-6.167	850.920	850.959
☉ Brg. N. Abut.	11+14.587	-6.167	850.903	850.903
N. End of Slab	11+15.264	-6.167	850.900	850.900

GIRDER 4 & ☉ OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	10+07.823	0.000	851.002	851.002
☉ Brg. S. Abut.	10+08.500	0.000	851.004	851.004
A	10+18.500	0.000	851.035	851.114
B	10+28.500	0.000	851.060	851.218
C	10+38.500	0.000	851.078	851.297
D	10+48.500	0.000	851.089	851.341
E	10+58.500	0.000	851.094	851.378
F	10+68.500	0.000	851.092	851.360
G	10+78.500	0.000	851.084	851.320
H	10+88.500	0.000	851.069	851.266
I	10+98.500	0.000	851.047	851.166
J	11+08.500	0.000	851.019	851.059
☉ Brg. N. Abut.	11+13.500	0.000	851.003	851.003
N. End of Slab	11+14.177	0.000	851.000	851.000

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	10+06.736	6.167	850.902	850.902
☉ Brg. S. Abut.	10+07.413	6.167	850.904	850.904
A	10+17.413	6.167	850.936	851.015
B	10+27.413	6.167	850.961	851.119
C	10+37.413	6.167	850.980	851.200
D	10+47.413	6.167	850.992	851.244
E	10+57.413	6.167	850.998	851.282
F	10+67.413	6.167	850.997	851.265
G	10+77.413	6.167	850.989	851.225
H	10+87.413	6.167	850.975	851.172
I	10+97.413	6.167	850.954	851.072
J	11+07.413	6.167	850.926	850.966
☉ Brg. N. Abut.	11+12.413	6.167	850.910	850.910
N. End of Slab	11+13.090	6.167	850.908	850.908

E. EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	10+05.707	12.000	850.807	850.807
☉ Brg. S. Abut.	10+06.384	12.000	850.810	850.810
A	10+16.384	12.000	850.842	850.921
B	10+26.384	12.000	850.868	851.026
C	10+36.384	12.000	850.888	851.107
D	10+46.384	12.000	850.900	851.152
E	10+56.384	12.000	850.907	851.191
F	10+66.384	12.000	850.906	851.174
G	10+76.384	12.000	850.899	851.135
H	10+86.384	12.000	850.886	851.083
I	10+96.384	12.000	850.865	850.984
J	11+06.384	12.000	850.839	850.878
☉ Brg. N. Abut.	11+11.384	12.000	850.823	850.823
N. End of Slab	11+12.061	12.000	850.820	850.820

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	10+05.648	12.333	850.800	850.800
☉ Brg. S. Abut.	10+06.325	12.333	850.802	850.802
A	10+16.325	12.333	850.835	850.914
B	10+26.325	12.333	850.861	851.019
C	10+36.325	12.333	850.881	851.100
D	10+46.325	12.333	850.893	851.145
E	10+56.325	12.333	850.900	851.184
F	10+66.325	12.333	850.899	851.167
G	10+76.325	12.333	850.892	851.128
H	10+86.325	12.333	850.879	851.076
I	10+96.325	12.333	850.859	850.977
J	11+06.325	12.333	850.832	850.871
☉ Brg. N. Abut.	11+11.325	12.333	850.816	850.816
N. End of Slab	11+12.002	12.333	850.814	850.814

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	10+04.561	18.500	850.668	850.668
☉ Brg. S. Abut.	10+05.238	18.500	850.670	850.670
A	10+15.238	18.500	850.704	850.783
B	10+25.238	18.500	850.730	850.888
C	10+35.238	18.500	850.750	850.970
D	10+45.238	18.500	850.764	851.016
E	10+55.238	18.500	850.771	851.055
F	10+65.238	18.500	850.771	851.039
G	10+75.238	18.500	850.765	851.001
H	10+85.238	18.500	850.752	850.950
I	10+95.238	18.500	850.733	850.851
J	11+05.238	18.500	850.707	850.746
☉ Brg. N. Abut.	11+10.238	18.500	850.691	850.691
N. End of Slab	11+10.915	18.500	850.689	850.689

INSIDE FACE OF E. PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	10+04.297	20.000	850.636	850.636
☉ Brg. S. Abut.	10+04.974	20.000	850.638	850.638
A	10+14.974	20.000	850.672	850.751
B	10+24.974	20.000	850.699	850.856
C	10+34.974	20.000	850.719	850.938
D	10+44.974	20.000	850.733	850.984
E	10+54.974	20.000	850.740	851.024
F	10+64.974	20.000	850.740	851.008
G	10+74.974	20.000	850.734	850.970
H	10+84.974	20.000	850.721	850.919
I	10+94.974	20.000	750.702	850.821
J	11+04.974	20.000	850.676	850.716
☉ Brg. N. Abut.	11+09.974	20.000	850.661	850.661
N. End of Slab	11+10.651	20.000	850.659	850.659

INSIDE FACE OF W. PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach Slab	9+81.349	-20.000	850.533
A1	9+91.349	-20.000	850.582
A2	10+01.349	-20.000	850.624
N. End of S. Approach Slab	10+11.349	-20.000	850.660

W. EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach Slab	9+79.939	-12.000	850.692
A1	9+89.939	-12.000	850.742
A2	9+99.939	-12.000	850.785
N. End of S. Approach Slab	10+09.939	-12.000	850.822

☉ ROADWAY

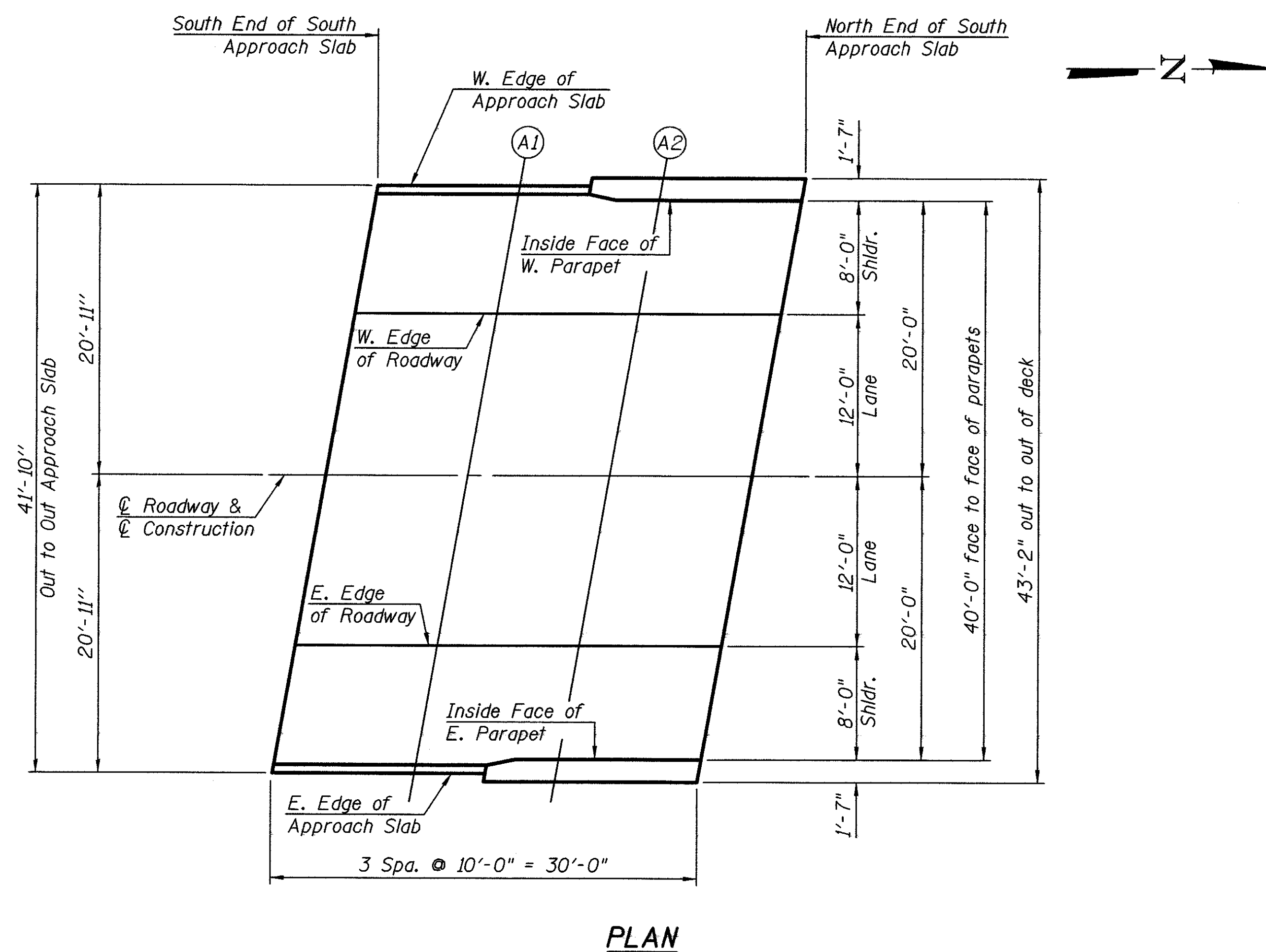
Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach Slab	9+77.823	0.000	850.867
A1	9+87.823	0.000	850.919
A2	9+97.823	0.000	850.964
N. End of S. Approach Slab	10+07.823	0.000	851.002

E. EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach Slab	9+75.707	12.000	850.668
A1	9+85.707	12.000	850.721
A2	9+95.707	12.000	850.768
N. End of S. Approach Slab	10+05.707	12.000	850.807

INSIDE FACE OF E. PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach Slab	9+74.297	20.000	850.494
A1	9+84.297	20.000	850.548
A2	9+94.297	20.000	850.595
N. End of S. Approach Slab	10+04.297	20.000	850.636



PLAN

FILE NAME = 13-224.APPROACH-SLAB-ELEV.dgn

USER NAME = myoung
 PLOT SCALE = \$SCALE\$
 PLOT DATE = 8/9/2017

DESIGNED - A.L.S.
 CHECKED - R.E.A.
 DRAWN - A.D.S.
 CHECKED - R.E.A.

REVISED -
 REVISED -
 REVISED -
 REVISED -

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FEHR NO. 184-00265

FREEPORT, IL ROCKFORD, IL
 ROCHELLE, IL SPRINGFIELD, IL
 MONROE, WI

TOP OF SOUTH APPROACH SLAB ELEVATIONS
S.N. 045-3066
 SHEET NO. 6 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	08-00024-01-BR	KANE	56	27
CONTRACT NO. 61A77				
ILLINOIS FED. AID PROJECT				

INSIDE FACE OF W. PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Approach Slab	11+17.703	-20.000	850.634
A3	11+27.703	-20.000	850.593
A4	11+37.703	-20.000	850.545
N. End of N. Approach Slab	11+47.703	-20.000	850.491

W. EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Approach Slab	11+16.293	-12.000	850.805
A3	11+26.293	-12.000	850.765
A4	11+36.293	-12.000	850.719
N. End of N. Approach Slab	11+46.293	-12.000	850.666

☉ ROADWAY

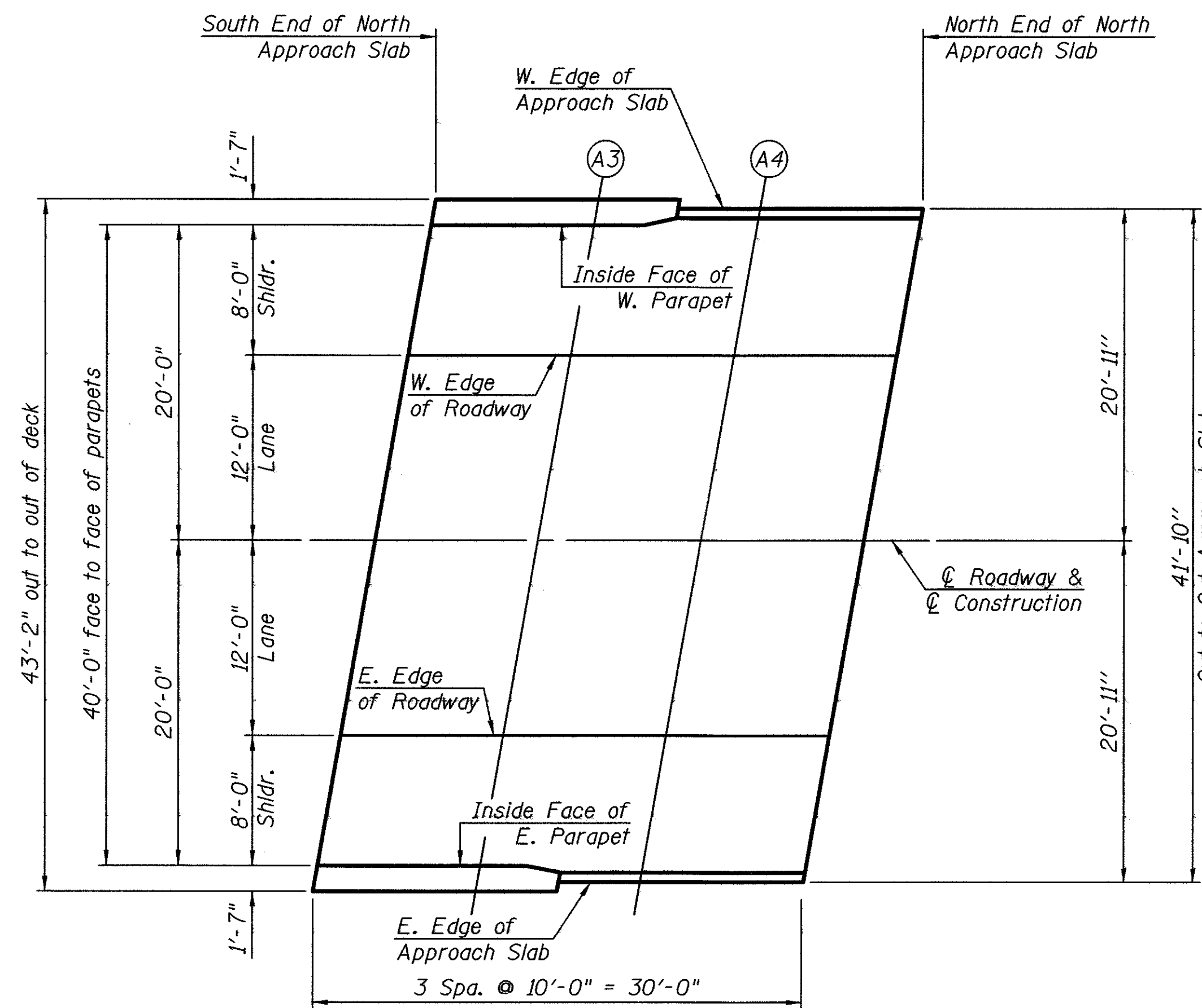
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Approach Slab	11+14.177	0.000	851.000
A3	11+24.177	0.000	850.962
A4	11+34.177	0.000	850.917
N. End of N. Approach Slab	11+44.177	0.000	850.865

E. EDGE OF ROADWAY

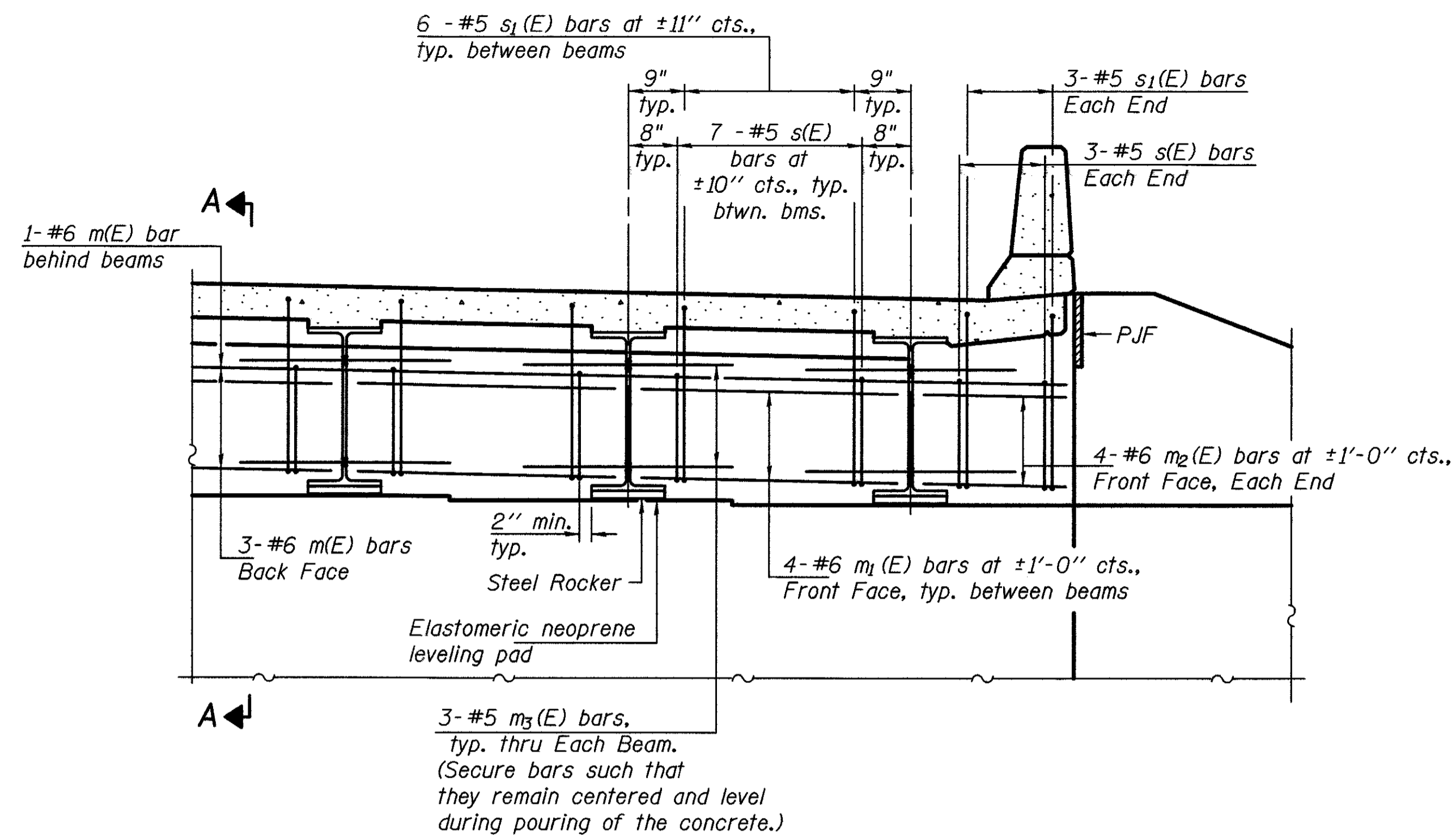
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Approach Slab	11+12.061	12.000	850.820
A3	11+22.061	12.000	850.783
A4	11+32.061	12.000	850.739
N. End of N. Approach Slab	11+42.061	12.000	850.689

INSIDE FACE OF E. PARAPET

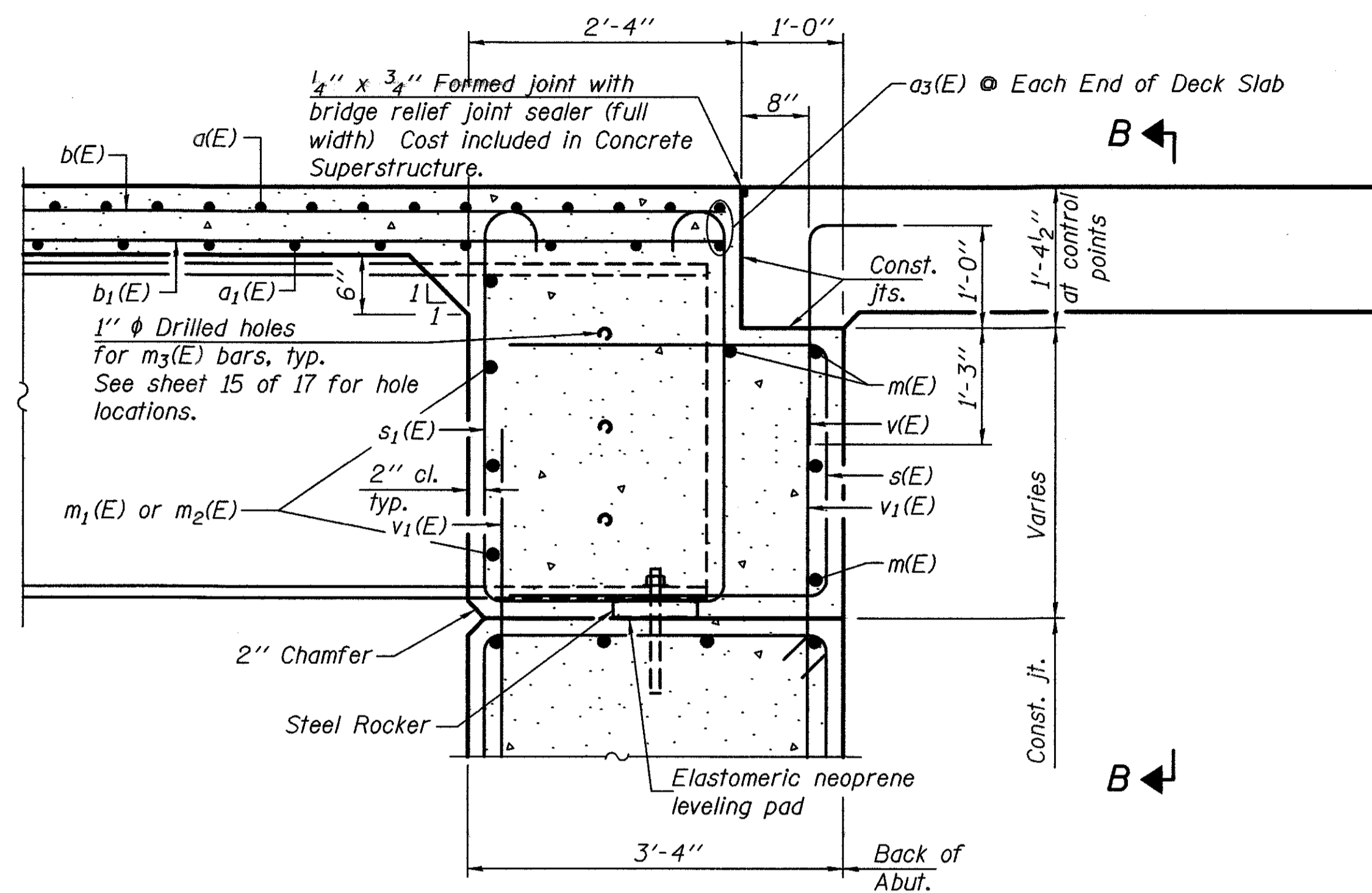
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Approach Slab	11+10+651	20.000	850.659
A3	11+20.651	20.000	850.622
A4	11+30.651	20.000	850.580
N. End of N. Approach Slab	11+40.651	20.000	850.530



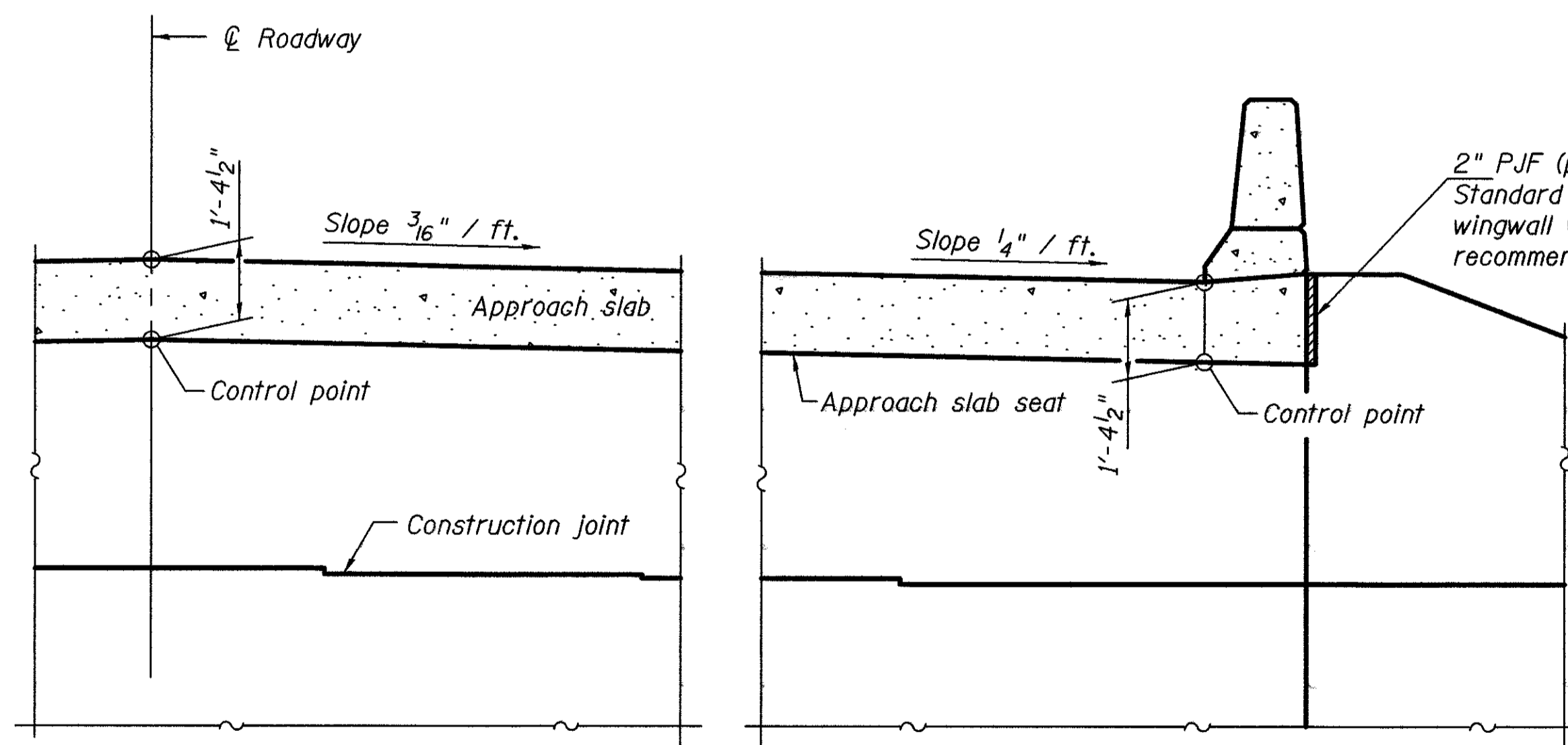
PLAN



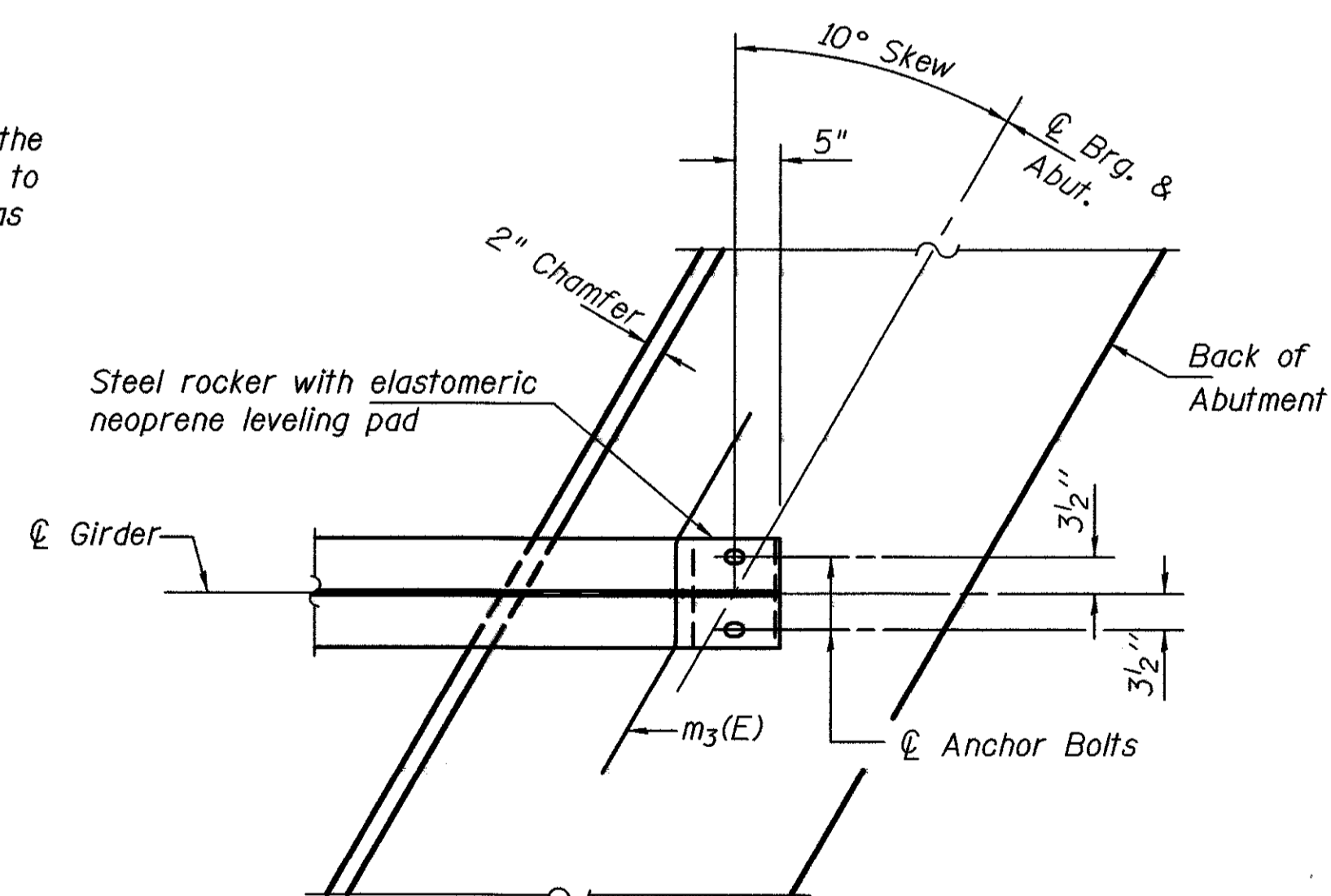
DIAPHRAGM ELEVATION AT ABUTMENT



SECTION A-A
(at Rt. L's)



SECTION B-B



PARTIAL PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 10 of 19.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 10 of 19.
 For details of bars s(E), s₁(E) and v(E) see sheet 10 of 19.
 The s(E) and s₁(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
 The approach slab seat shall have a constant slope determined from the control points shown.
 For bearing details see sheet 15 of 19.

FILE NAME = 13-224_DIAPHRAGM.dgn

USER NAME = myoung

DESIGNED - A.L.S.

REVISED -

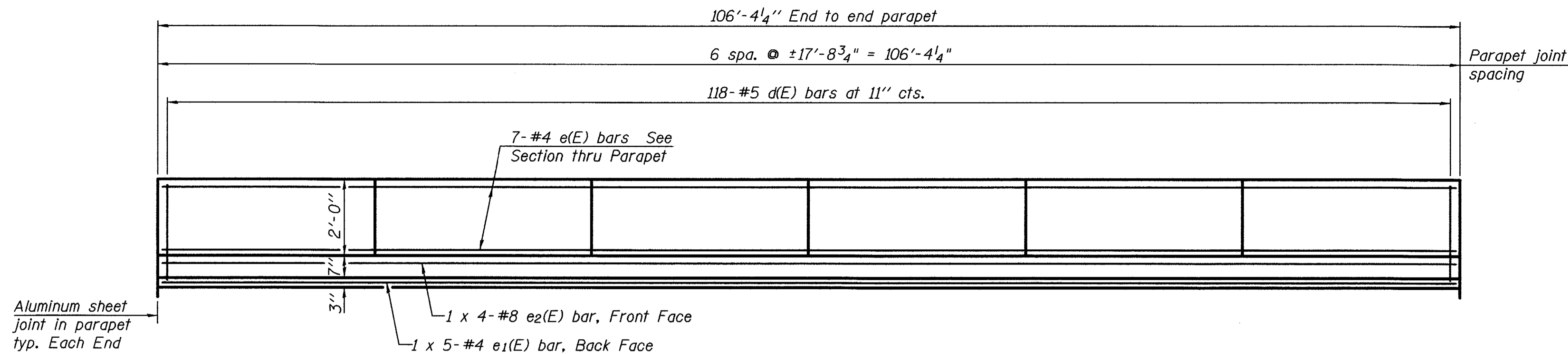
FEHR GRAHAM

FREPORT, IL ROCKFORD, IL
 ROCHELLE, IL SPRINGFIELD, IL
 MONROE, WI

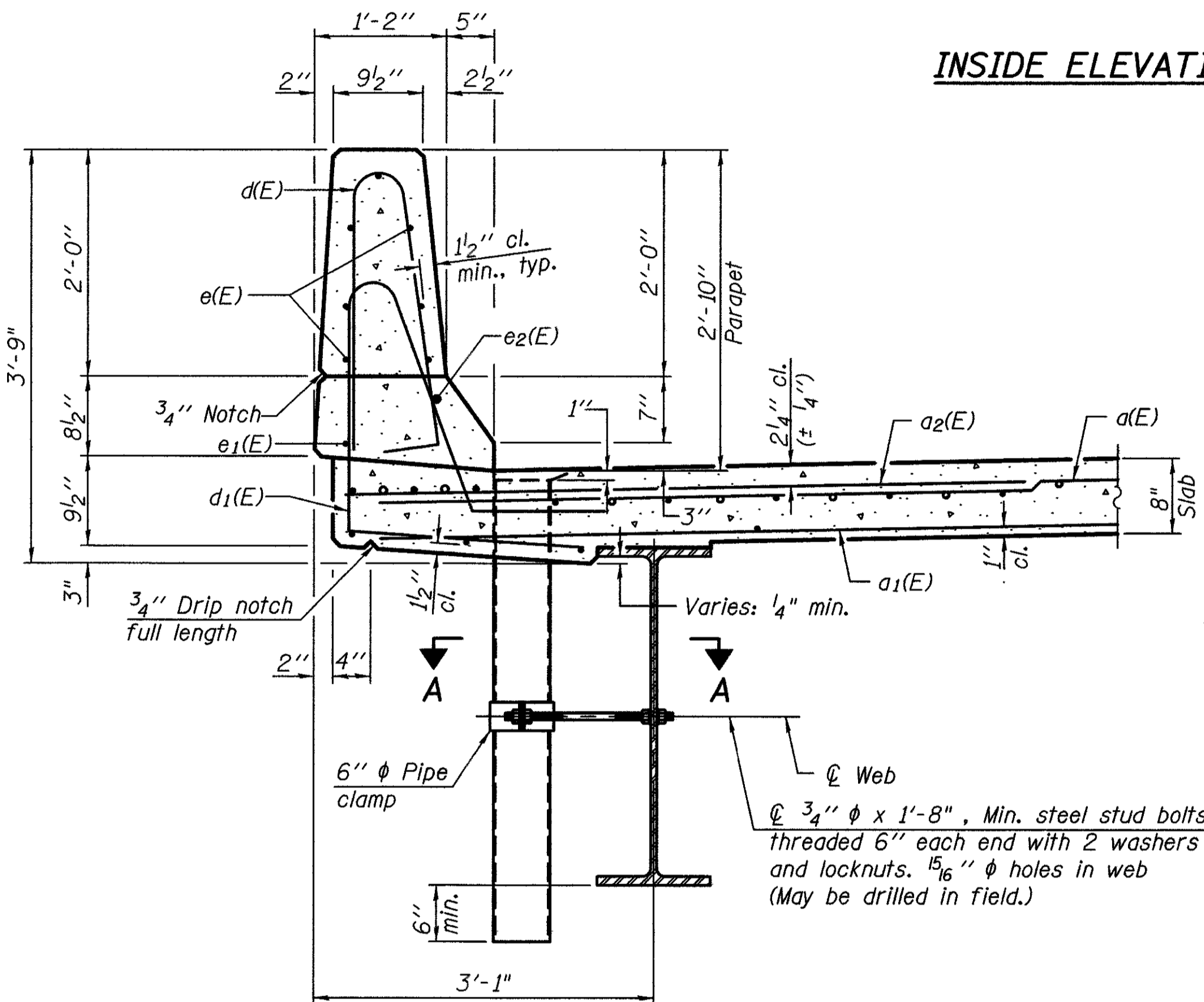
DIAPHRAGM DETAILS
S.N. 045-3066

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	08-00024-01-BR	KANE	56	30
CONTRACT NO. 61A77				
ILLINOIS FED. AID PROJECT				

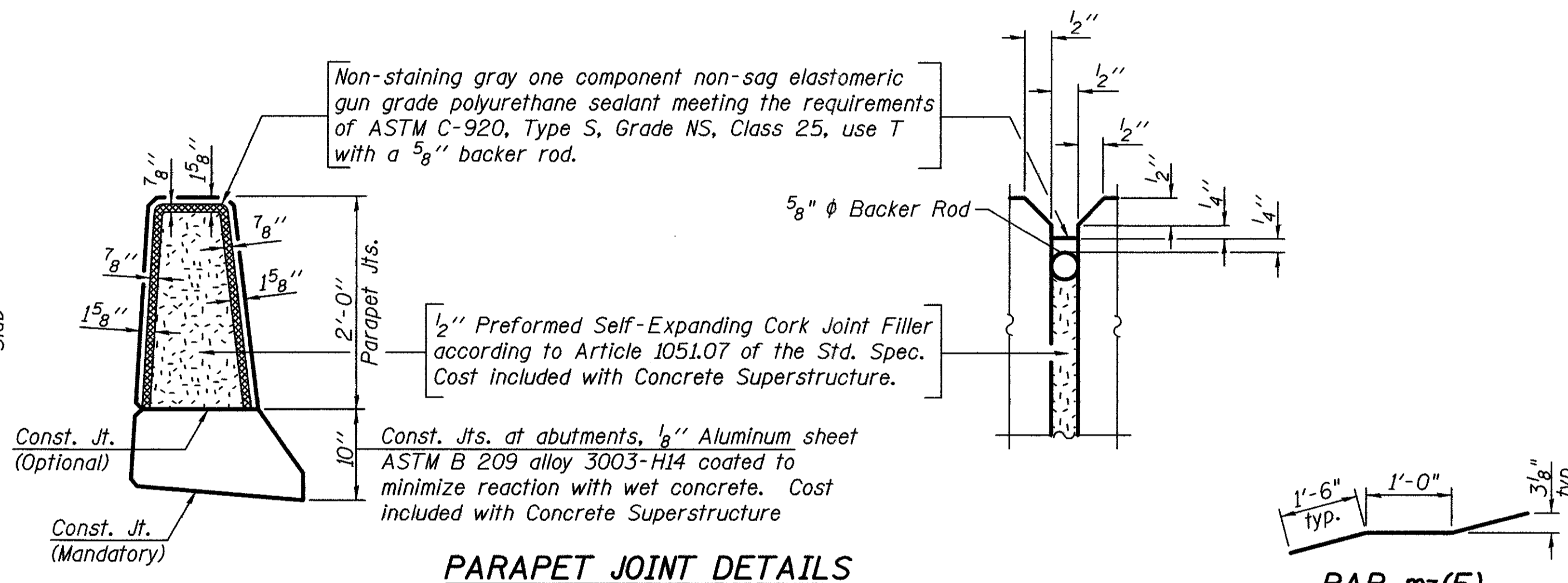
SHEET NO. 9 OF 19 SHEETS



MINIMUM BAR LAP
 (Parapet)
 #4 bar = 2'-0"
 #8 bar = 5'-2"



INSIDE ELEVATION OF PARAPET



PARAPET JOINT DETAILS

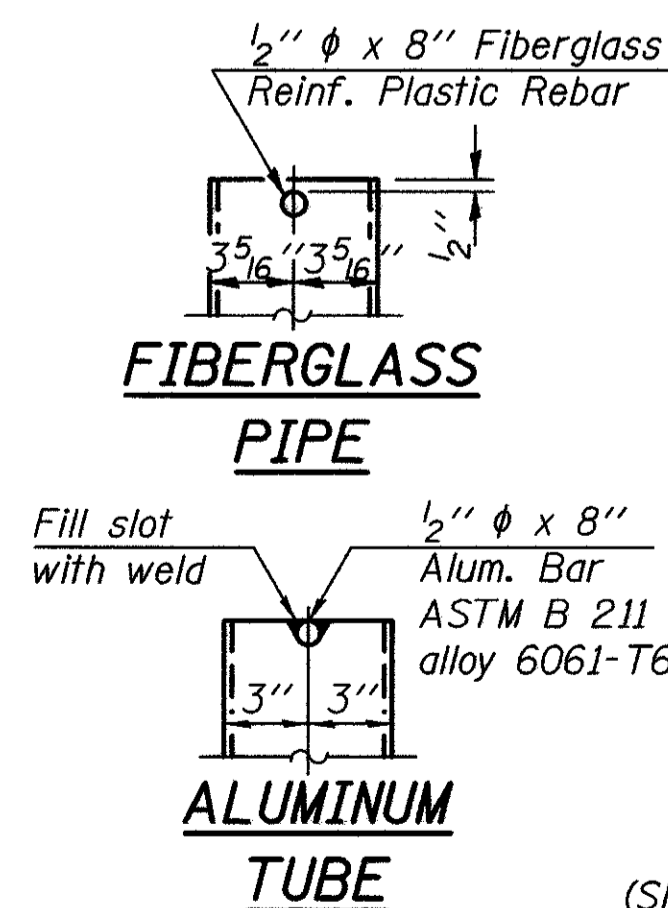
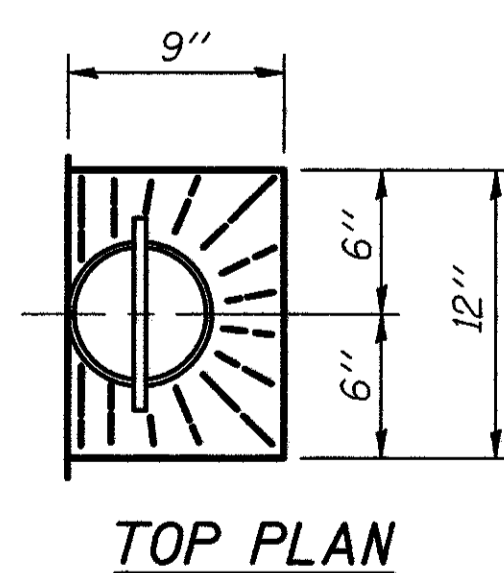
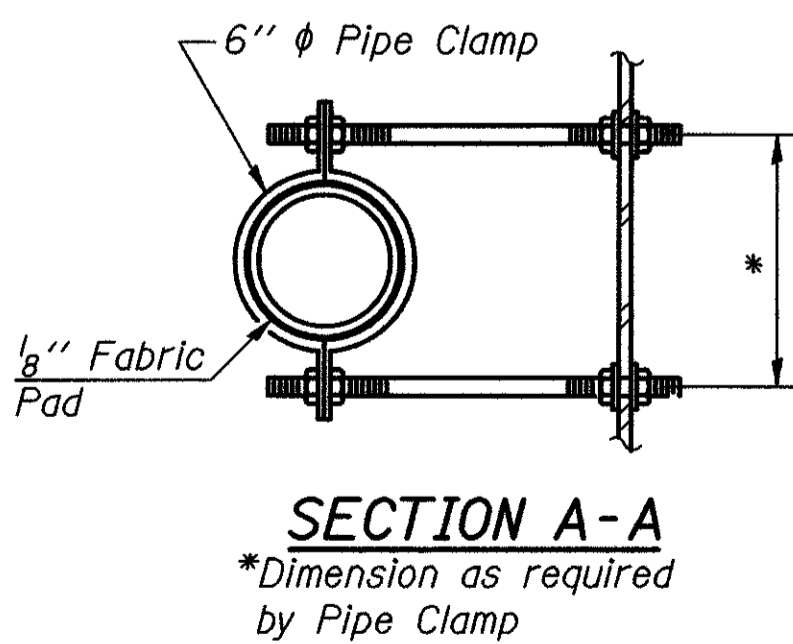
Notes:
 Floor drains to be coated or pigmented to match Federal Color Standard 595a 20045. The exterior surfaces of the drains shall be cleaned according to Society of Protective Coatings Spec. SSPC-SP1 prior to painting.
 Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.

SUPERSTRUCTURE BILL OF MATERIAL

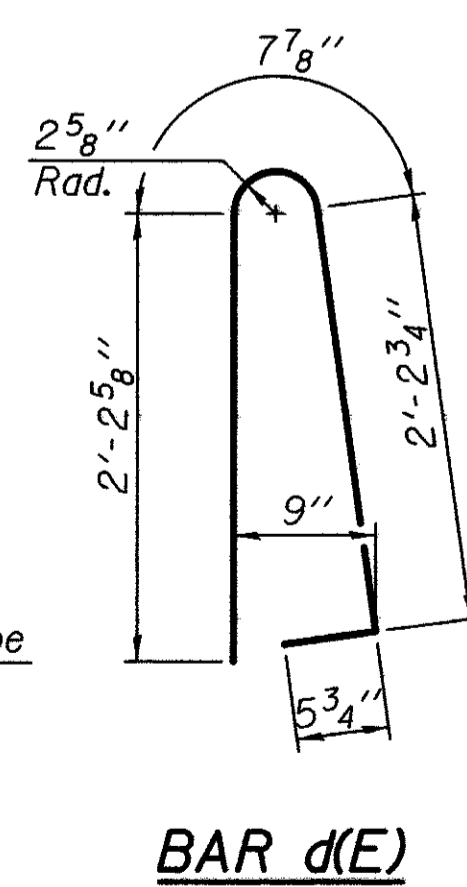
Bar	No.	Size	Length	Shape
a(E)	195	#5	42'-6"	—
a ₁ (E)	128	#5	40'-0"	—
a ₂ (E)	390	#6	6'-6"	—
a ₃ (E)	4	#5	43'-6"	—
b(E)	230	#5	24'-0"	—
b ₁ (E)	192	#5	29'-0"	—
d(E)	236	#5	5'-7"	⌋
d ₁ (E)	236	#5	7'-10"	⌋
e(E)	84	#4	17'-4"	—
e ₁ (E)	10	#4	23'-0"	—
e ₂ (E)	8	#8	30'-6"	—
m(E)	8	#6	43'-6"	—
m ₁ (E)	48	#6	5'-10"	—
m ₂ (E)	16	#6	2'-10"	—
m ₃ (E)	42	#5	4'-0"	—
s(E)	96	#5	8'-11"	⌋
s ₁ (E)	84	#5	11'-8"	⌋
v(E)	88	#5	3'-1"	⌋
Reinforcement Bars, Epoxy Coated			Pound	38,000
Concrete Superstructure			Cu. Yds.	182.5
Floor Drains			Each	8

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

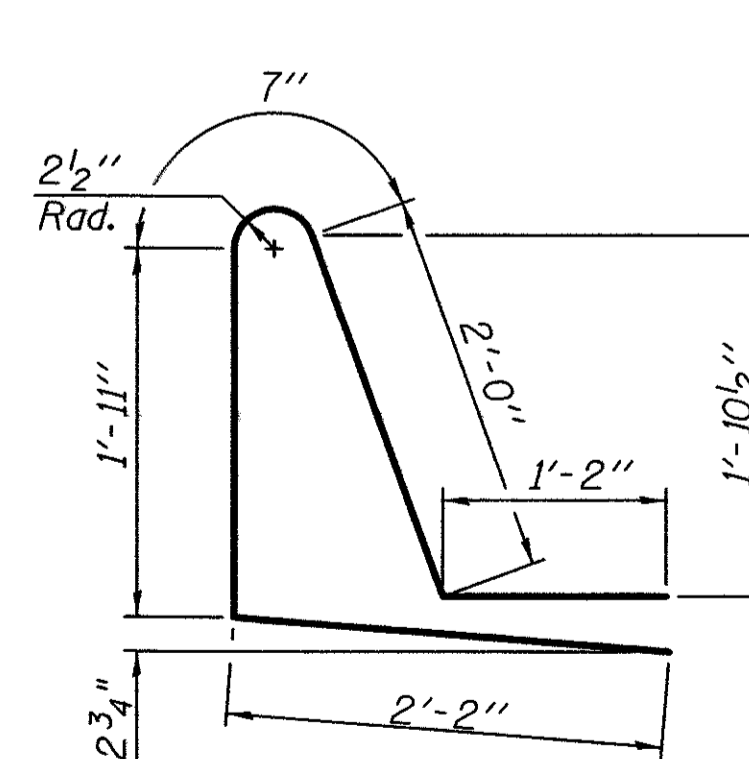
SECTION THRU PARAPET



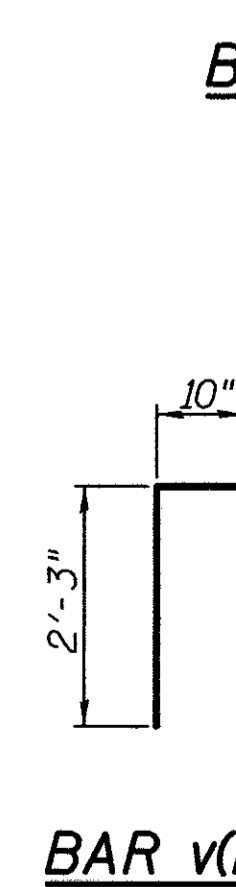
ALUMINUM TUBE TOP PLAN (Showing Aluminum Tube)



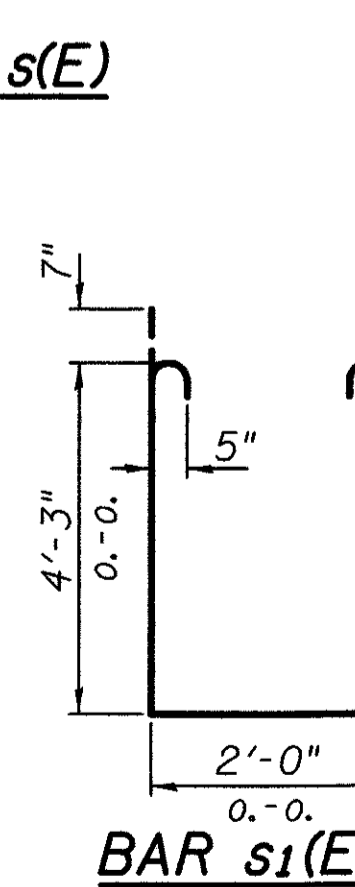
BAR d(E)



BAR d1(E)



BAR v(E)



BAR s1(E)

FILE NAME = 13-224.SUPERSTRUCTURE.dgn

USER NAME = myoung
 PLOT SCALE = #SCALE#
 PLOT DATE = 8/9/2017

DESIGNED - A.L.S.
 CHECKED - R.E.A.
 DRAWN - A.D.S.
 CHECKED - R.E.A.

REVISED -
 REVISED -
 REVISED -
 REVISED -

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 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 104-00225

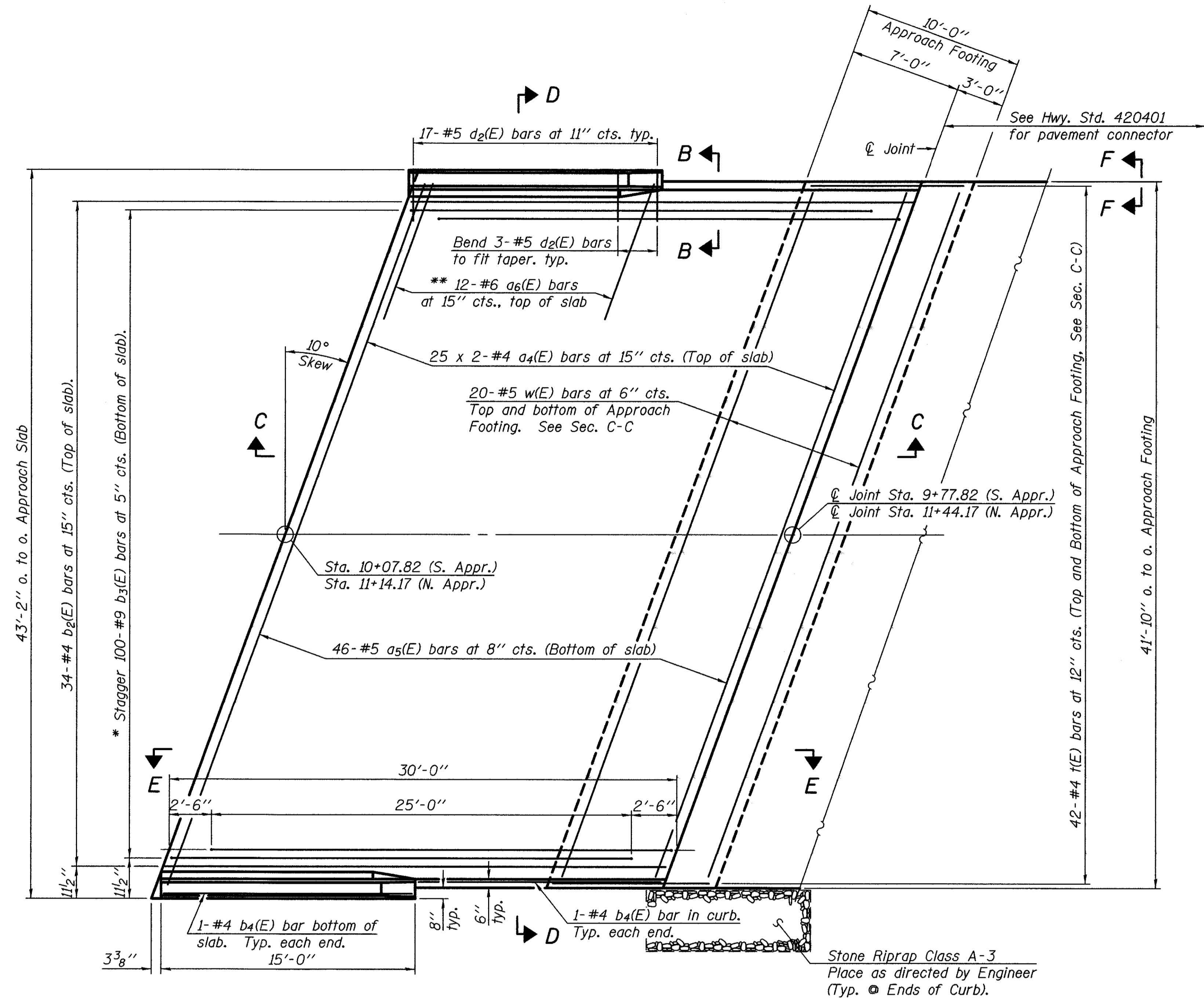
FREEPORT, IL ROCKFORD, IL
 ROCHELLE, IL SPRINGFIELD, IL
 MONROE, WI

SUPERSTRUCTURE DETAILS
 S.N. 045-3066

SHEET NO. 10 OF 19 SHEETS

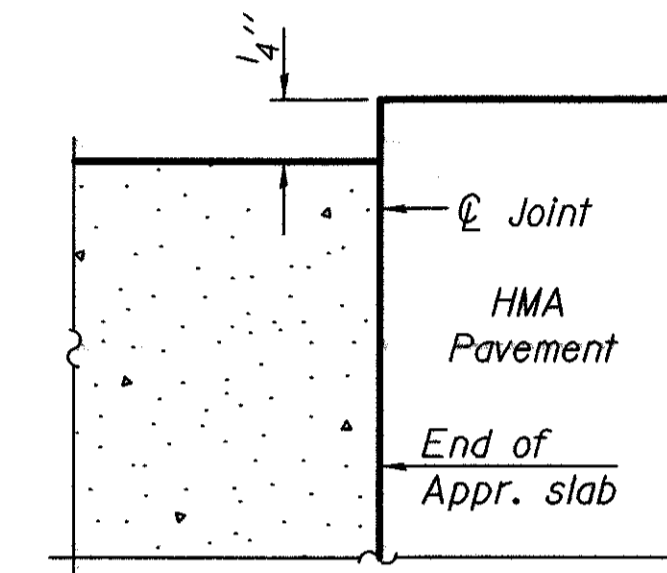
F.A.S. SECTION COUNTY TOTAL SHEETS SHEET NO.
 RTE. 97 08-00024-01-BR KANE 56 31
 CONTRACT NO. 61A77
 ILLINOIS FED. AID PROJECT

Notes:
See sheet 12 of 19 for Sections C-C & D-D and View E-E.
a₄(E) and a₅(E) bar spacings measured along ϕ Rdwy.



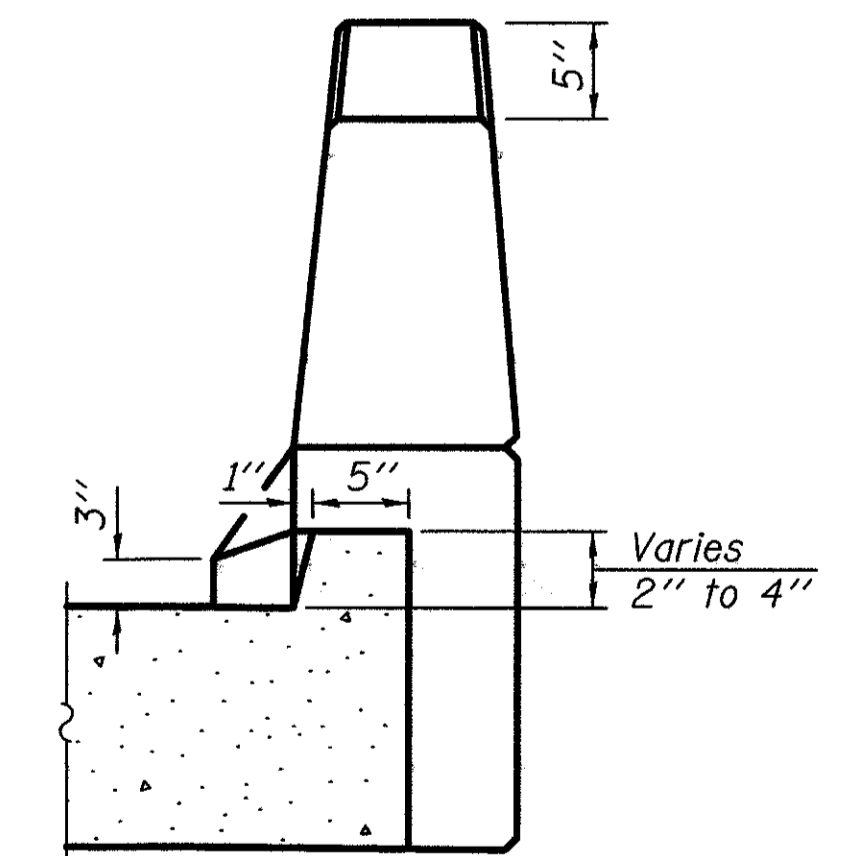
PLAN

* Tilt #9 b₃(E) bars as required to maintain clearance.
** Space between a₄(E) bars, typ. each parapet.



FLEXIBLE PAVEMENT

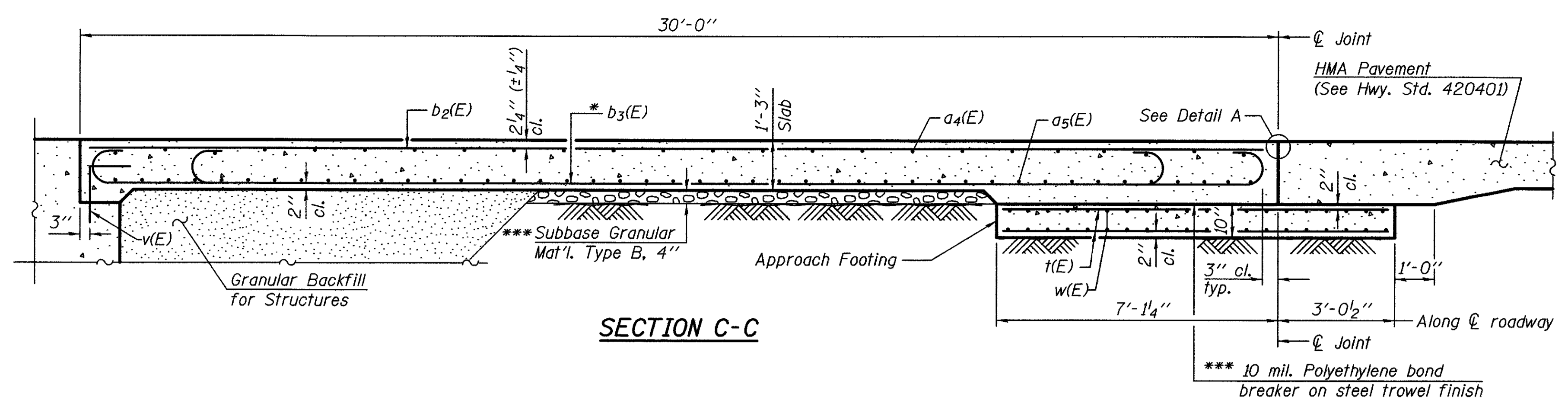
DETAIL A



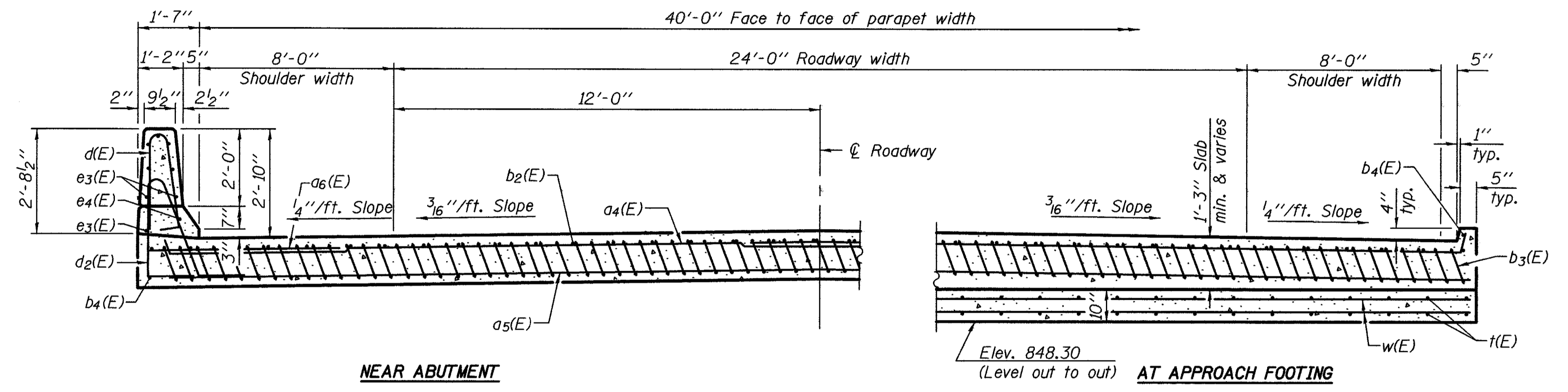
VIEW B-B

FILE NAME = 13-224-APPROACH-SLAB-DETAILS.dgn	USER NAME = myoung	DESIGNED - A.L.S.	REVISED -	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FIRM NO. 194-00025</small>	FREEPORT, IL	ROCKFORD, IL	BRIDGE APPROACH SLAB DETAILS S.N. 045-3066 SHEET NO. 11 OF 19 SHEETS	F.A.S. RTE. 97	SECTION 08-00024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 32
PLOT SCALE = *SCALEL*	DRAWN - A.D.S.	CHECKED - R.E.A.	REVISED -		ROCHELLE, IL	SPRINGFIELD, IL		CONTRACT NO. 61A77				
PLOT DATE = 8/9/2017	CHECKED - R.E.A.	REVISED -	REVISED -		MONROE, WI	ILLINOIS FED. AID PROJECT						
*13-224												

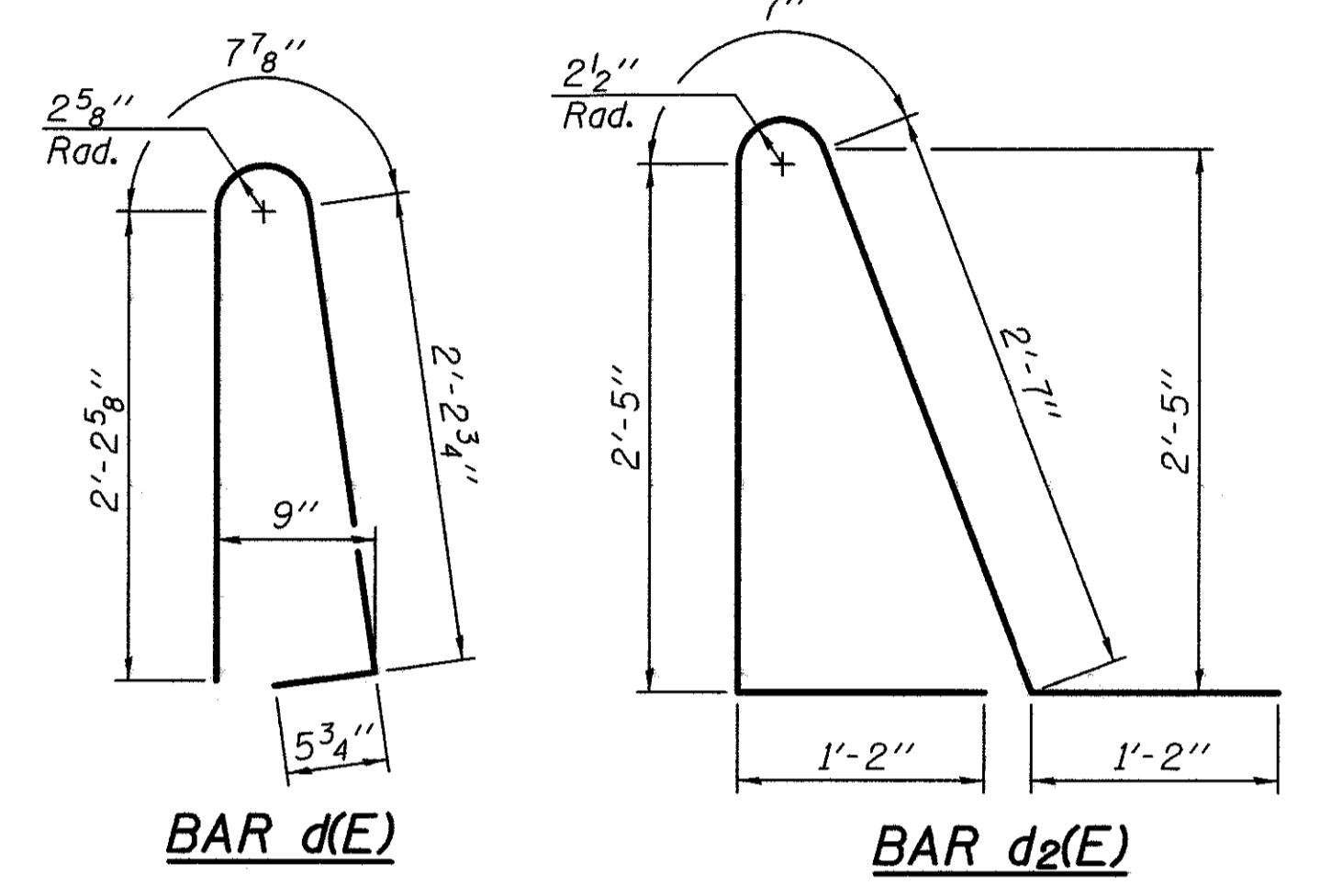
Notes:
 See sheet 11 of 19 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 9 of 19.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 19.
 For additional parapet details, see sheet 9 of 19.



SECTION C-C



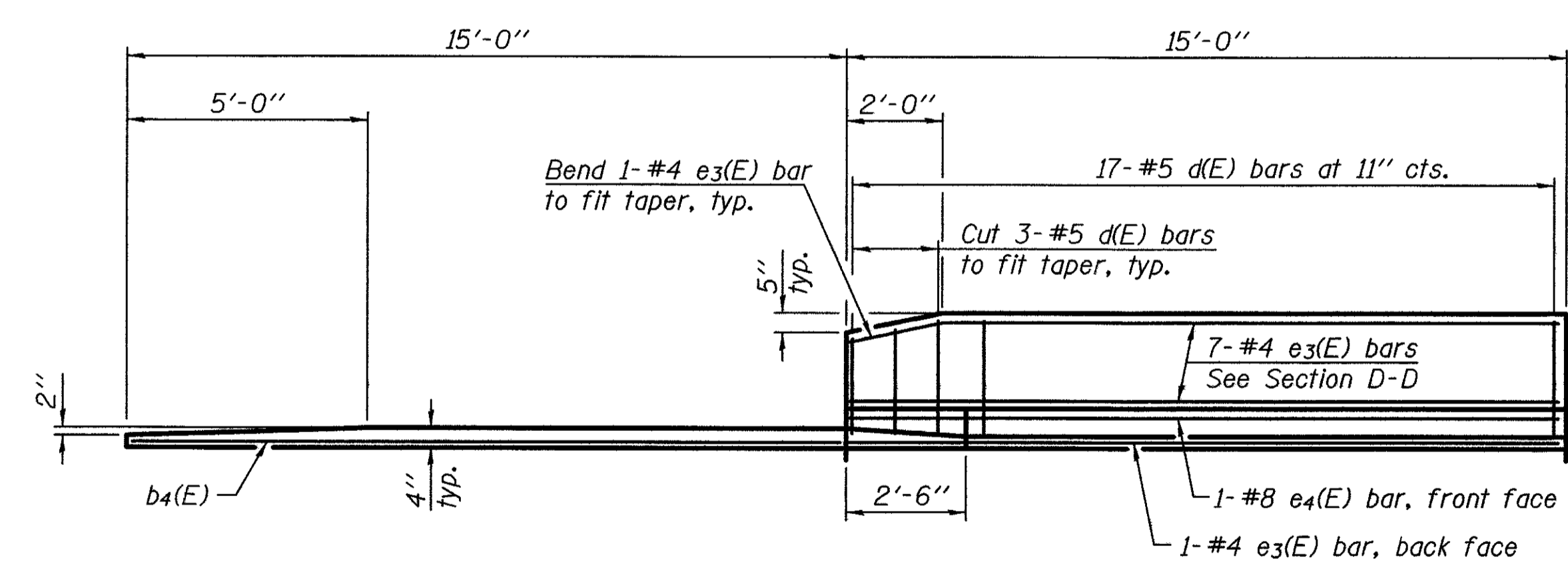
SECTION D-D



BAR d(E)

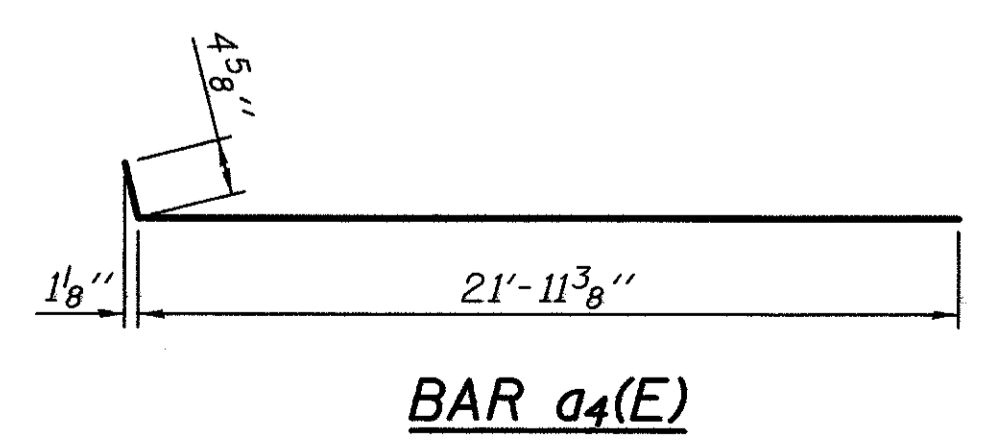
BAR d2(E)

* Tilt #9 b3(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.

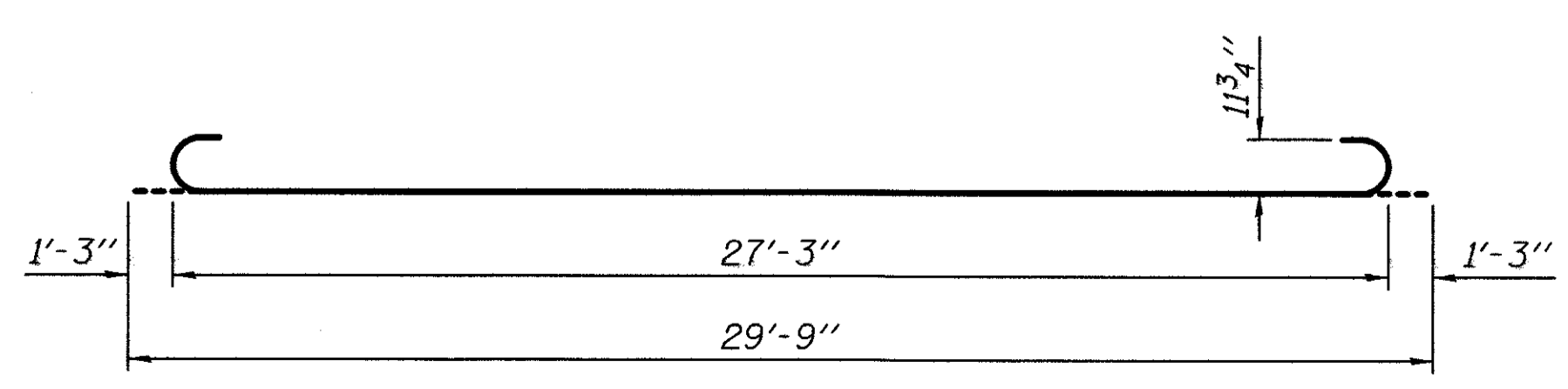


VIEW E-E

MINIMUM BAR LAP
 #4 bar = 2'-7"



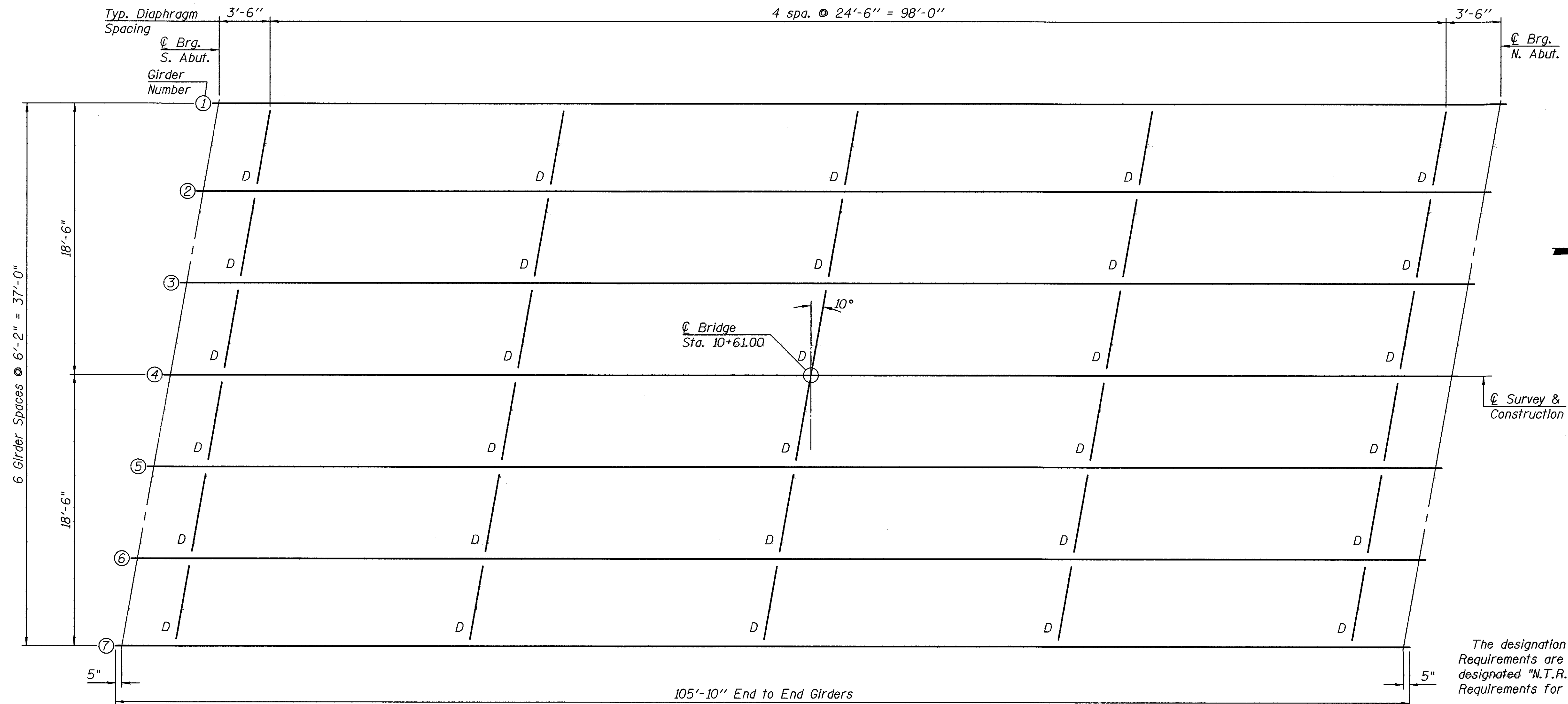
BAR a4(E)



BAR b3(E)

**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a4(E)	100	#4	22'-4"	—
a5(E)	92	#5	42'-2"	—
a6(E)	48	#6	6'-6"	—
b2(E)	68	#4	29'-8"	—
b3(E)	200	#9	29'-9"	—
b4(E)	8	#4	14'-8"	—
d(E)	68	#5	5'-7"	▲
d2(E)	68	#5	7'-11"	▲
e3(E)	32	#4	14'-8"	—
e4(E)	4	#8	14'-8"	—
t(E)	168	#4	9'-10"	—
w(E)	80	#5	42'-2"	—
Concrete Superstructure			Cu. Yd.	128.9
Concrete Structures			Cu. Yd.	26.3
Reinforcement Bars, Epoxy Coated			Pound	33,170



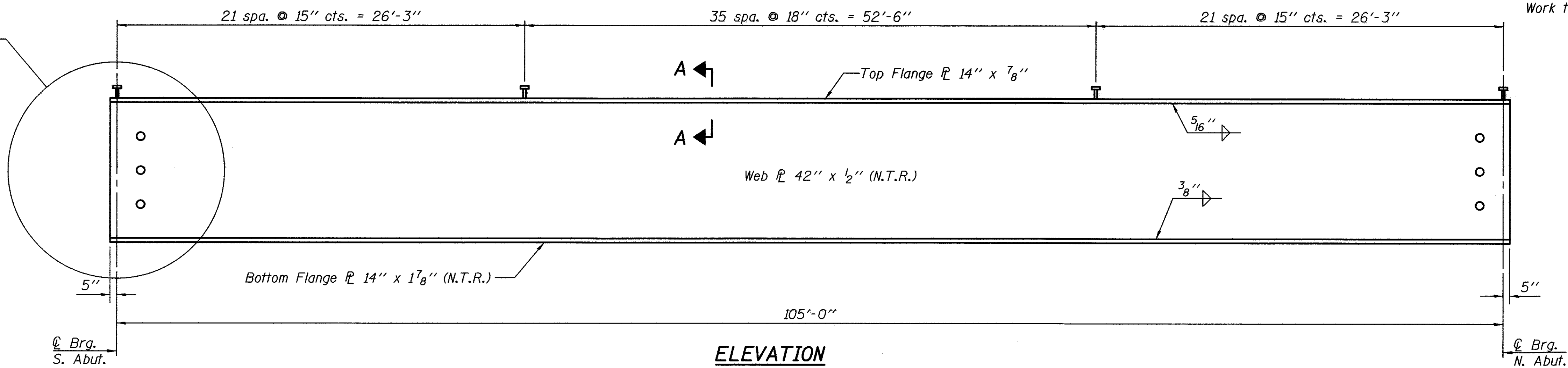
FRAMING PLAN

The designation "N.T.R." indicates that Notch Toughness Requirements are applicable. Load carrying components designated "N.T.R." shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Work this sheet with sheets 14 & 15 of 19.

See Sheet 15 of 19 for End of Beam Elevations



ELEVATION

FILE NAME = 13-224-STEEL.dgn

USER NAME = myoung
PLOT SCALE = #SCALE#
PLOT DATE = 8/9/2017

DESIGNED - A.L.S.	REVISIONS
CHECKED - R.E.A.	REVISIONS
DRAWN - A.D.S.	REVISIONS
CHECKED - R.E.A.	REVISIONS

DESIGNED -	REVISIONS
REVISIONS	REVISIONS
REVISIONS	REVISIONS
REVISIONS	REVISIONS

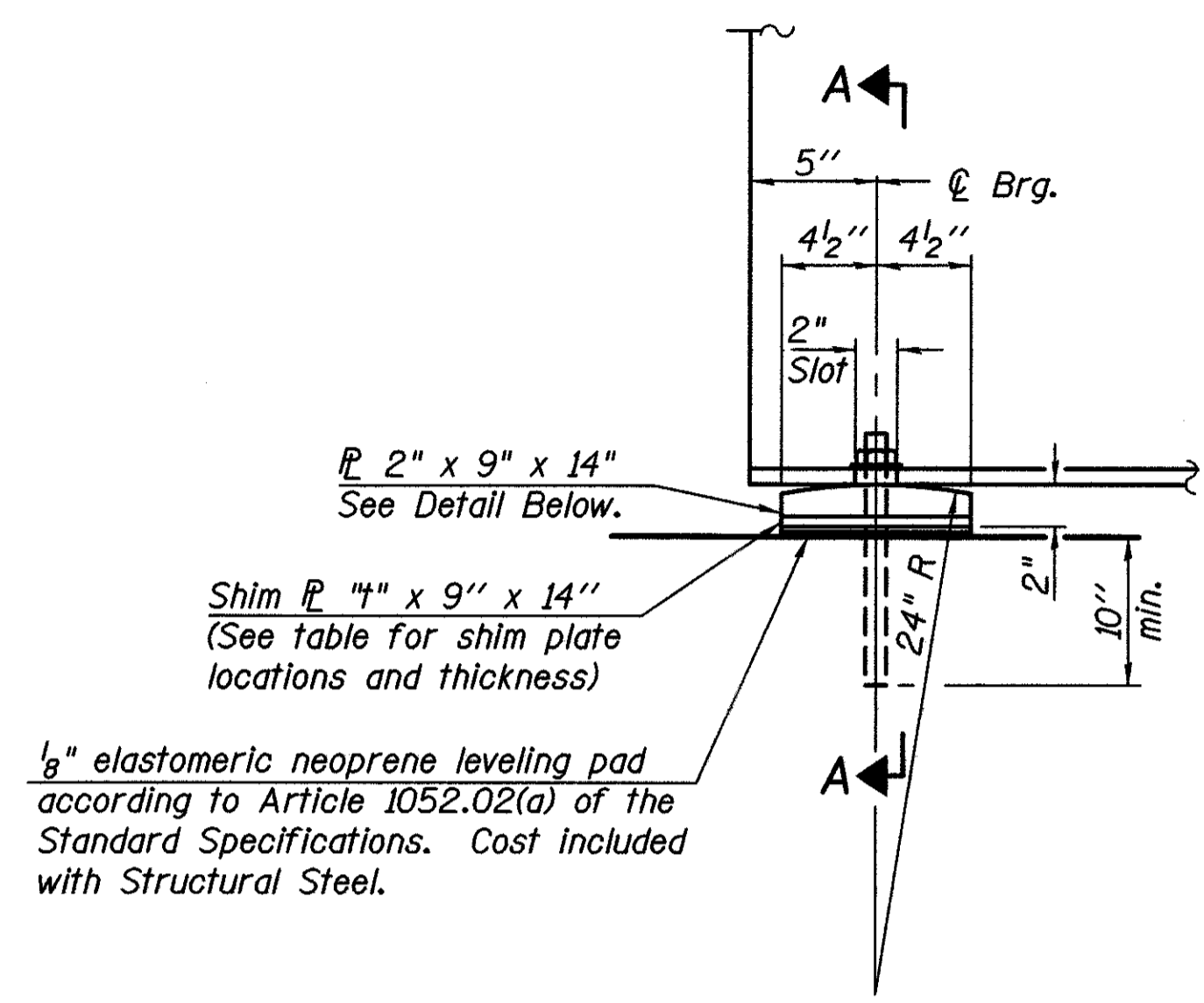
FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 104-00325

FREEPORT, IL ROCKFORD, IL
 ROCHELLE, IL SPRINGFIELD, IL
 MONROE, WI

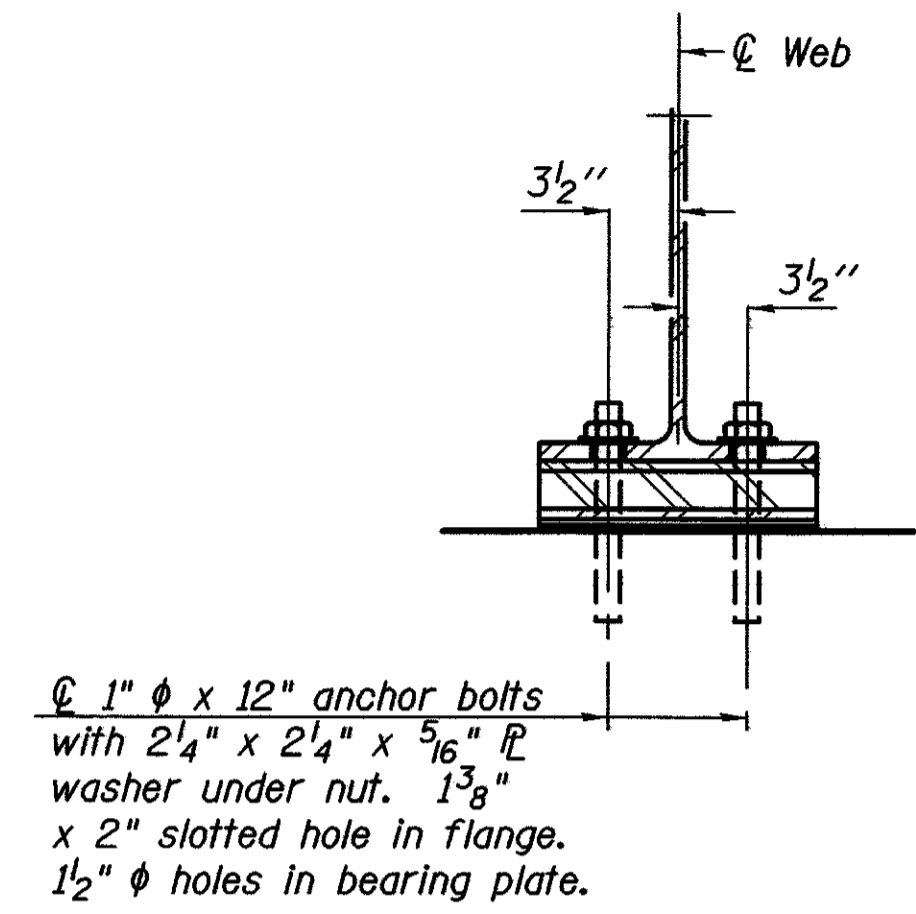
STRUCTURAL STEEL
S.N. 045-3066

SHEET NO. 13 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	08-00024-01-BR	KANE	56	34
CONTRACT NO. 61A77				
ILLINOIS FED. AID PROJECT				

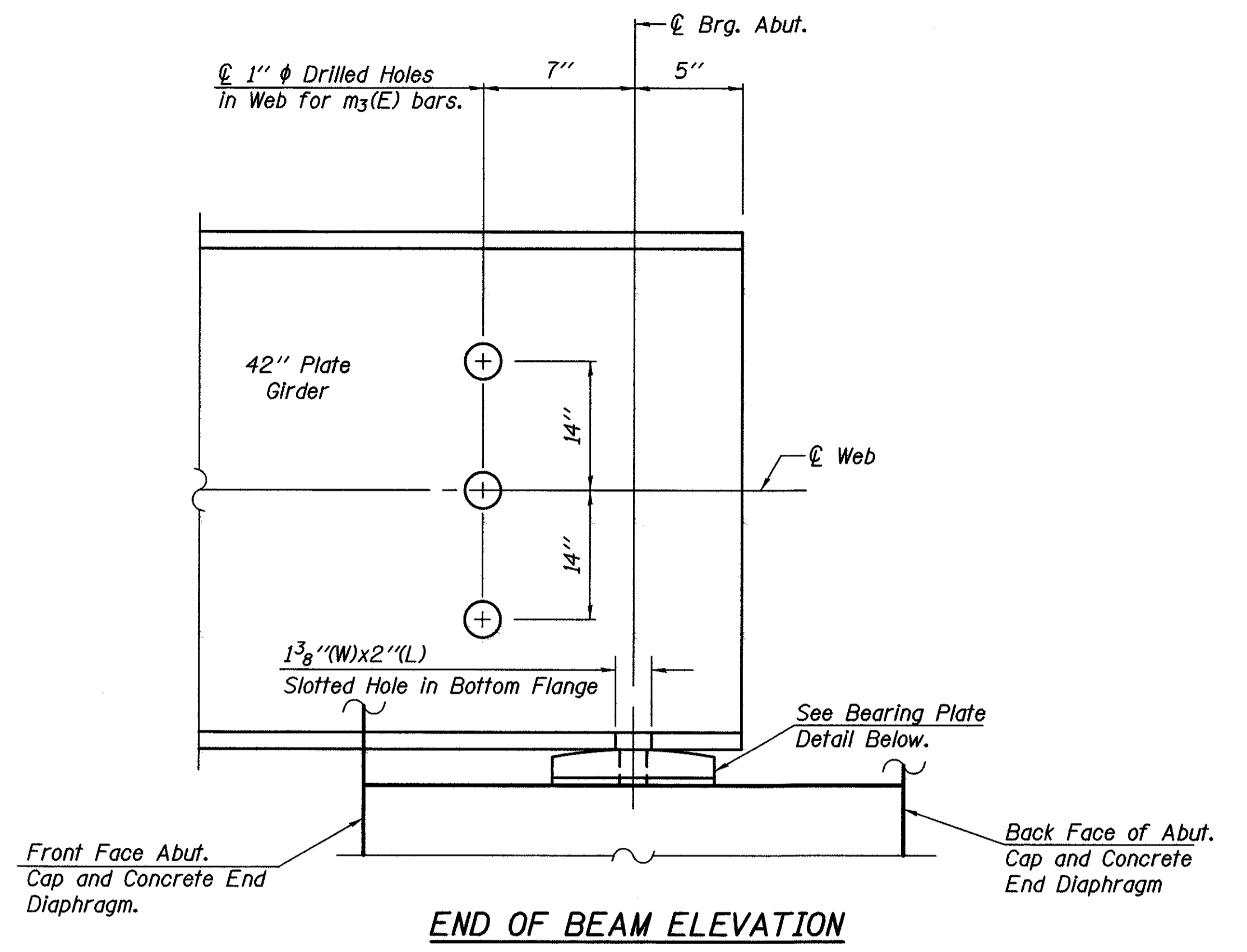


ELEVATION AT ABUTMENTS

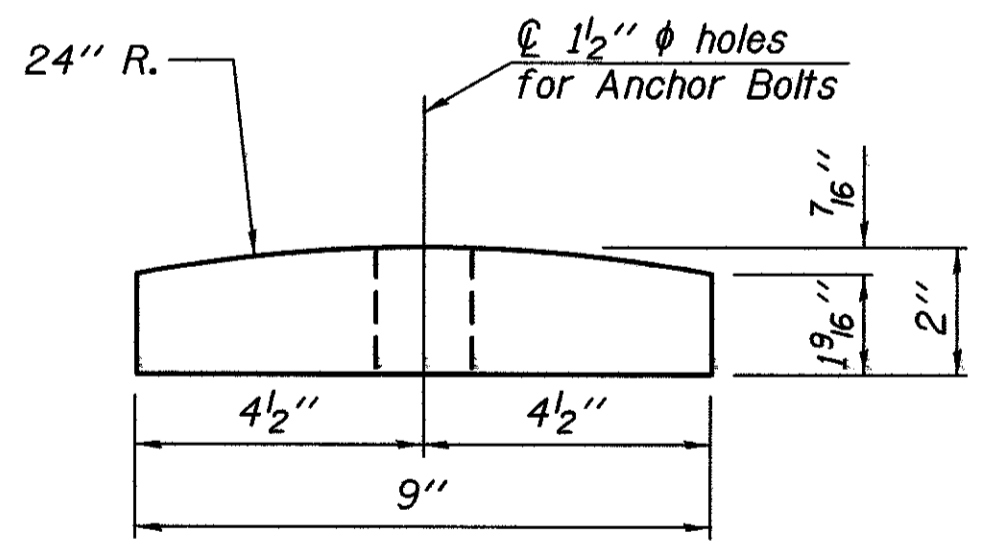


SECTION A-A

ABUTMENT BEARING
(14 Required)
Weight included with Structural Steel.



END OF BEAM ELEVATION



BEARING PLATE DETAIL

SHIM PATE LOCATION & THICKNESS "4"

Girder #	1	2	3	4	5	6	7
S. Abut.	1/4"	1/8"	1/8"	-	-	-	-
N. Abut.	-	-	-	-	1/8"	1/8"	1/4"

Notes: Two 1/8" adjusting shims, of the dimension of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

Anchor bolts shall be ASTM F1554 Grade 36, all-thread of the diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36 ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts 1"	Each	28

Work this Sheet with Sheets 13 & 14 of 19.

FILE NAME = 13-224-BEARINGS.dgn

USER NAME = myoung
PLOT SCALE = *SCALE*
PLOT DATE = 8/9/2017

DESIGNED - A.L.S.
CHECKED - R.E.A.
DRAWN - A.D.S.
CHECKED - R.E.A.

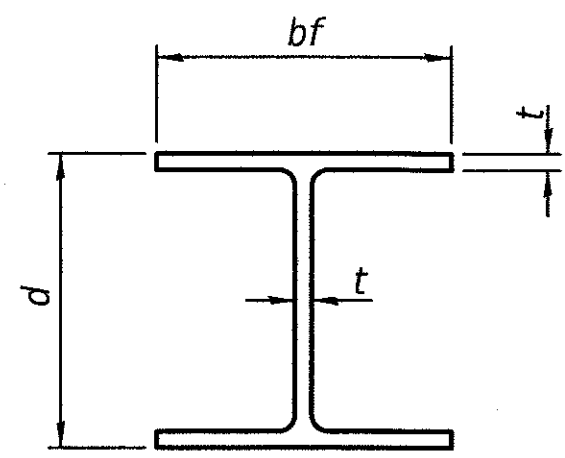
REVISED -
REVISED -
REVISED -
REVISED -

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ILLINOIS DESIGN FIRM NO. 104-002525

FREEPORT, IL ROCKFORD, IL
ROCHELLE, IL SPRINGFIELD, IL
MONROE, WI

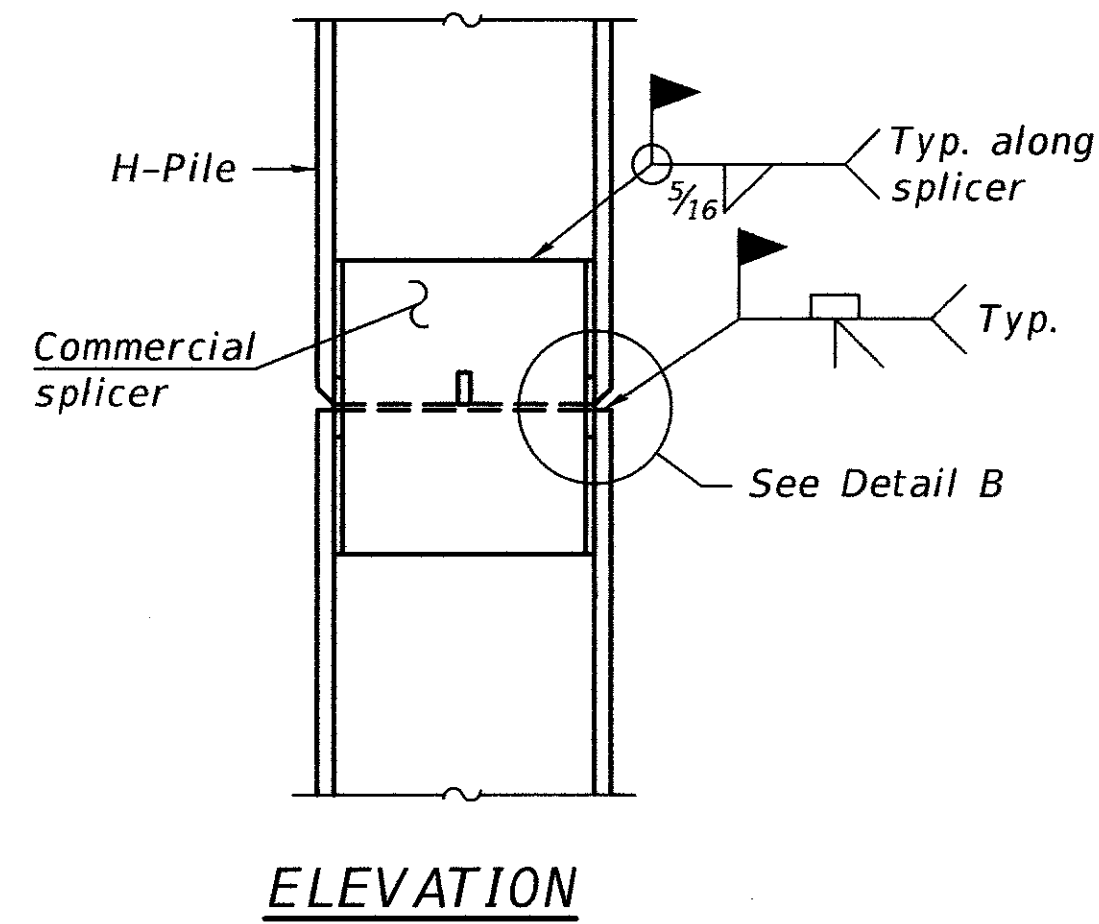
BEARING DETAILS
S.N. 045-3066
SHEET NO. 15 OF 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	08-00024-01-BR	KANE	56	36
CONTRACT NO. 61A77				
ILLINOIS FED. AID PROJECT				

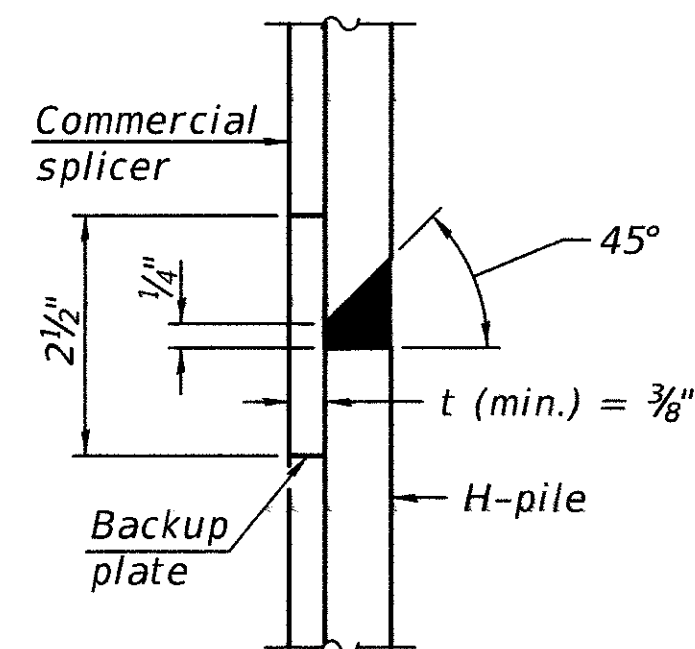


STEEL PILE TABLE

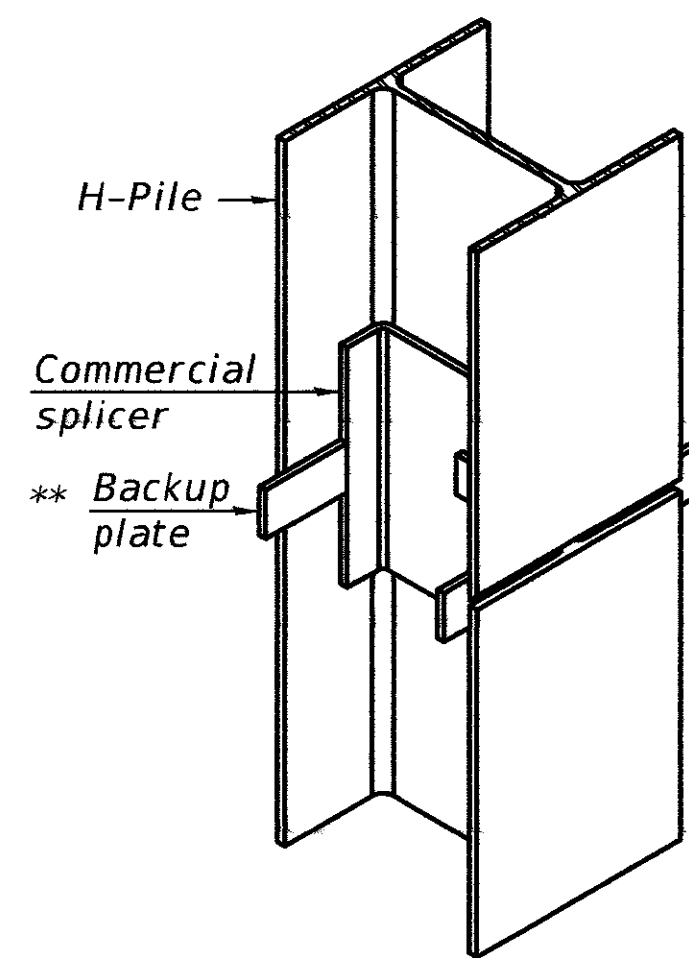
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

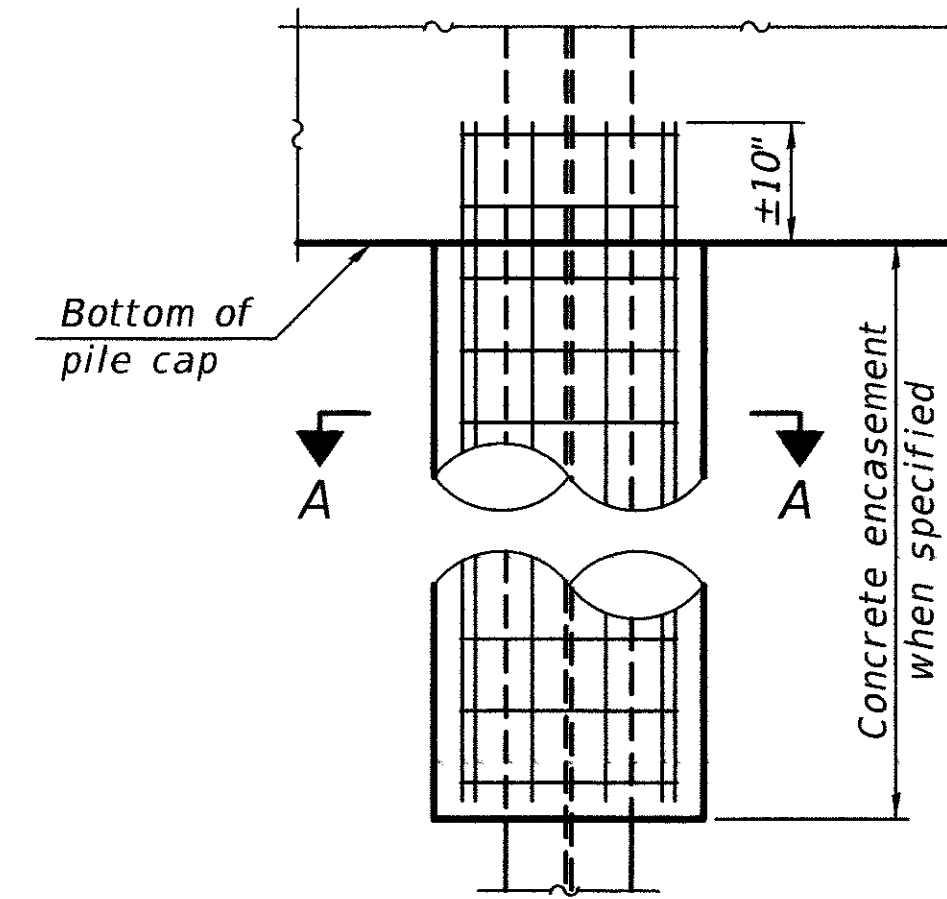


DETAIL "B"

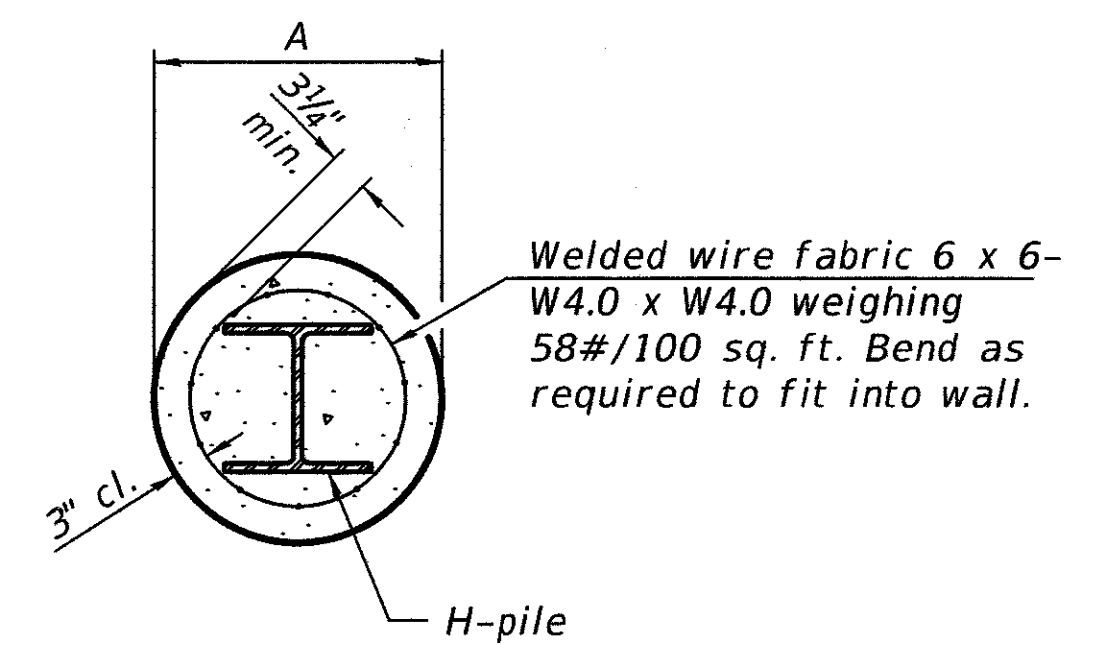


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

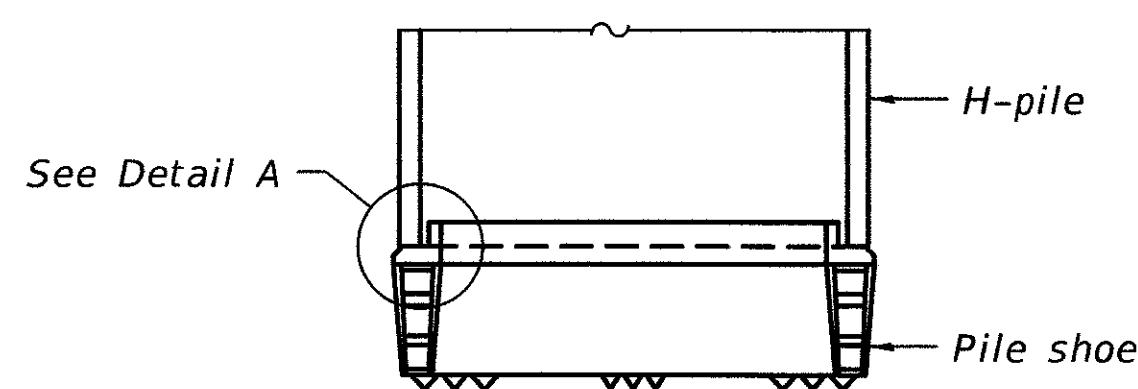


ELEVATION

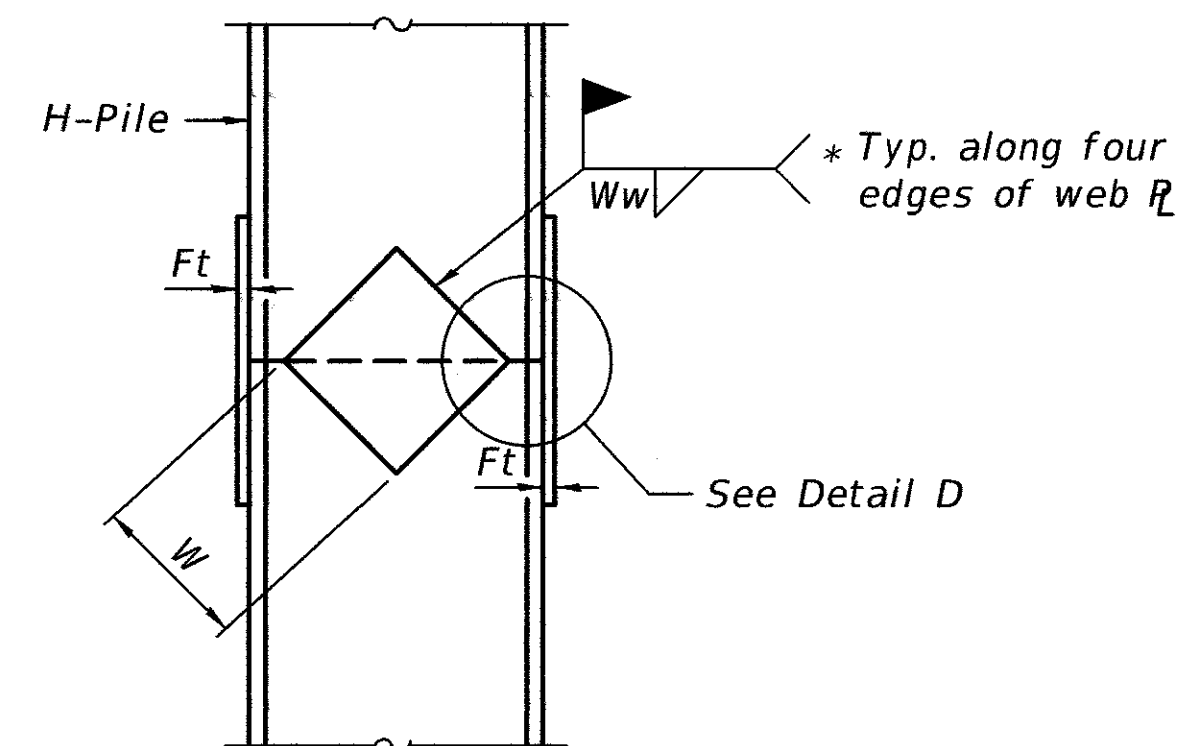


SECTION A-A

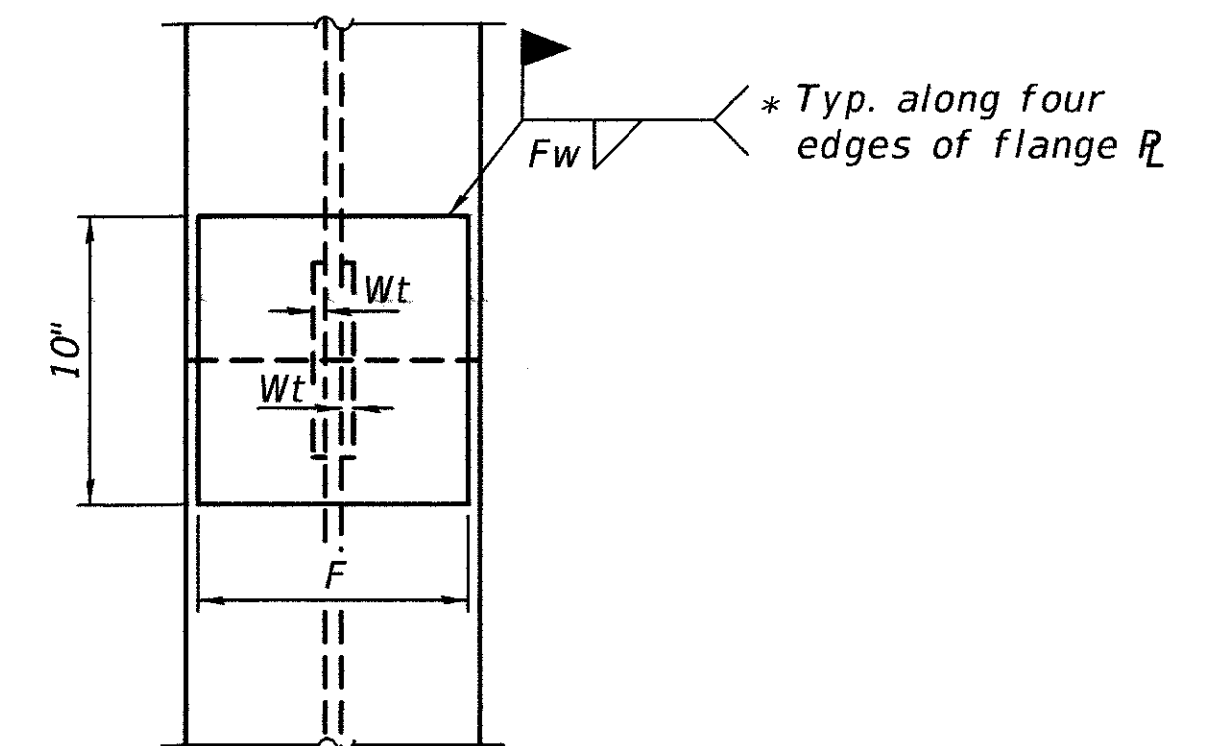
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(Forms for encasement may be omitted when soil conditions permit).



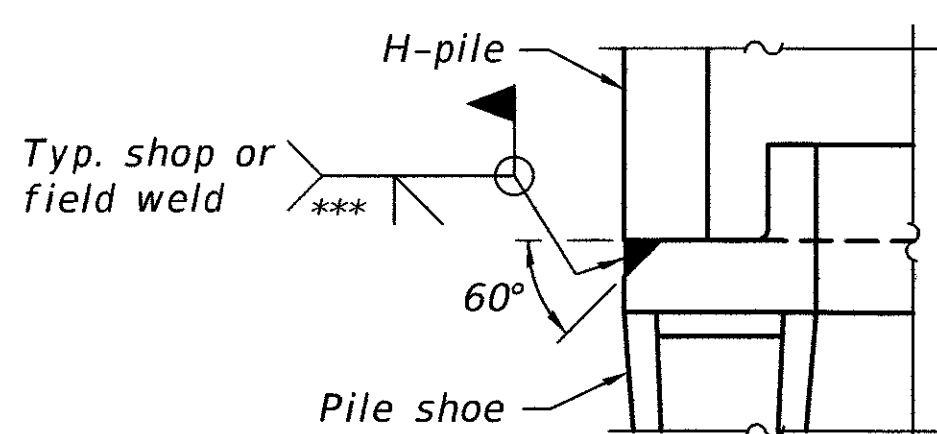
ELEVATION



ELEVATION

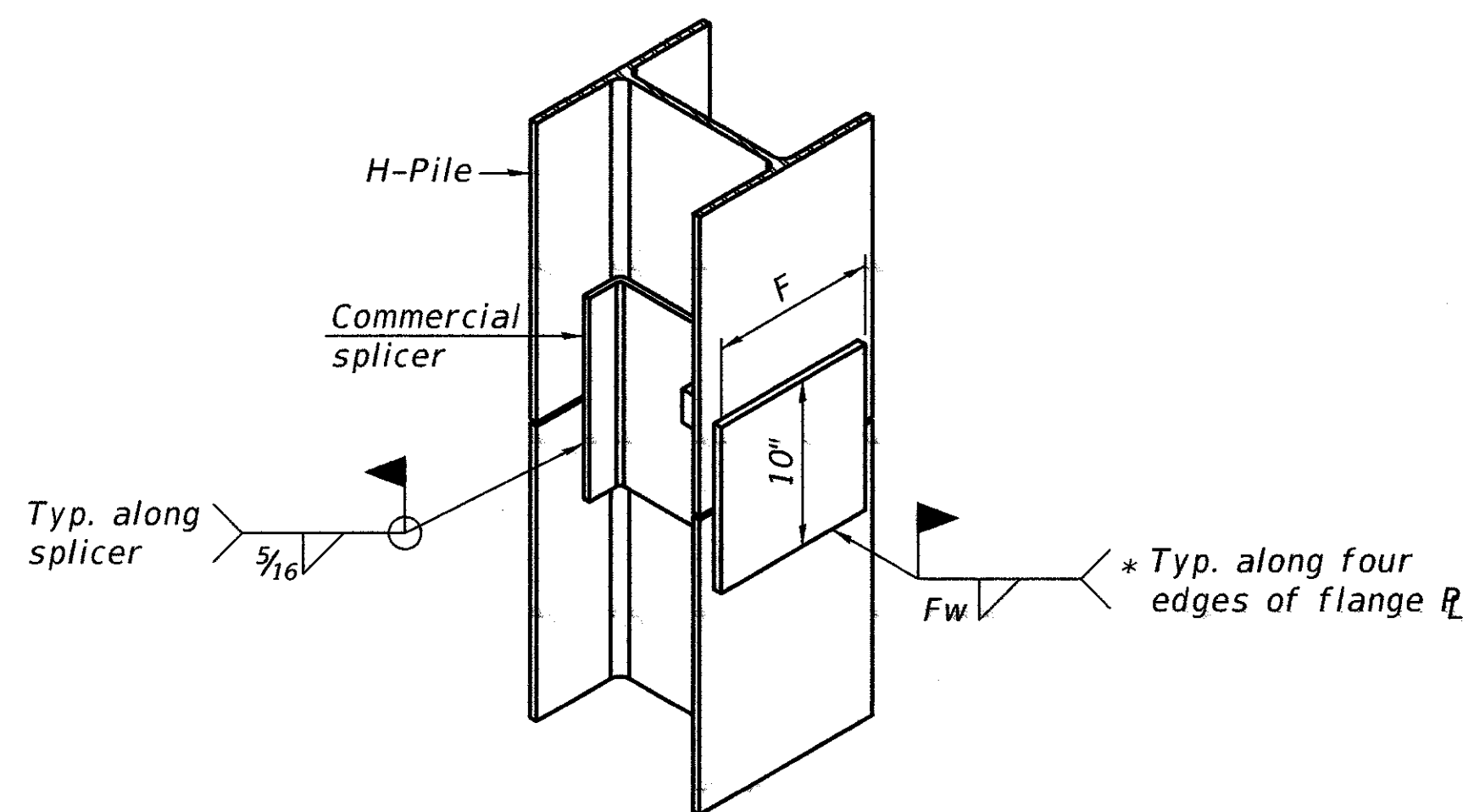


END VIEW



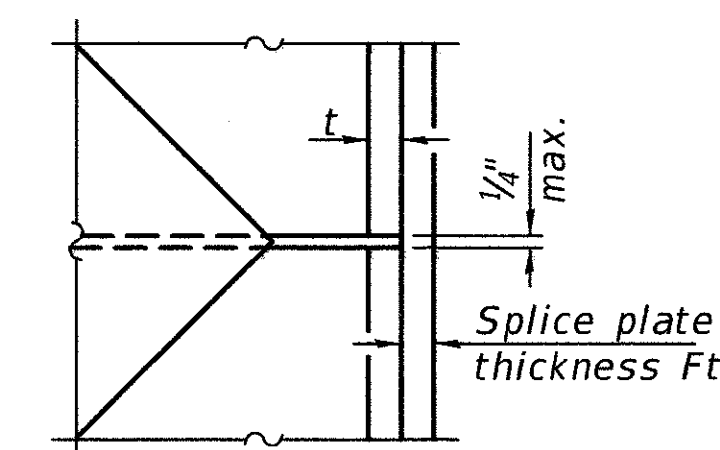
DETAIL A

SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

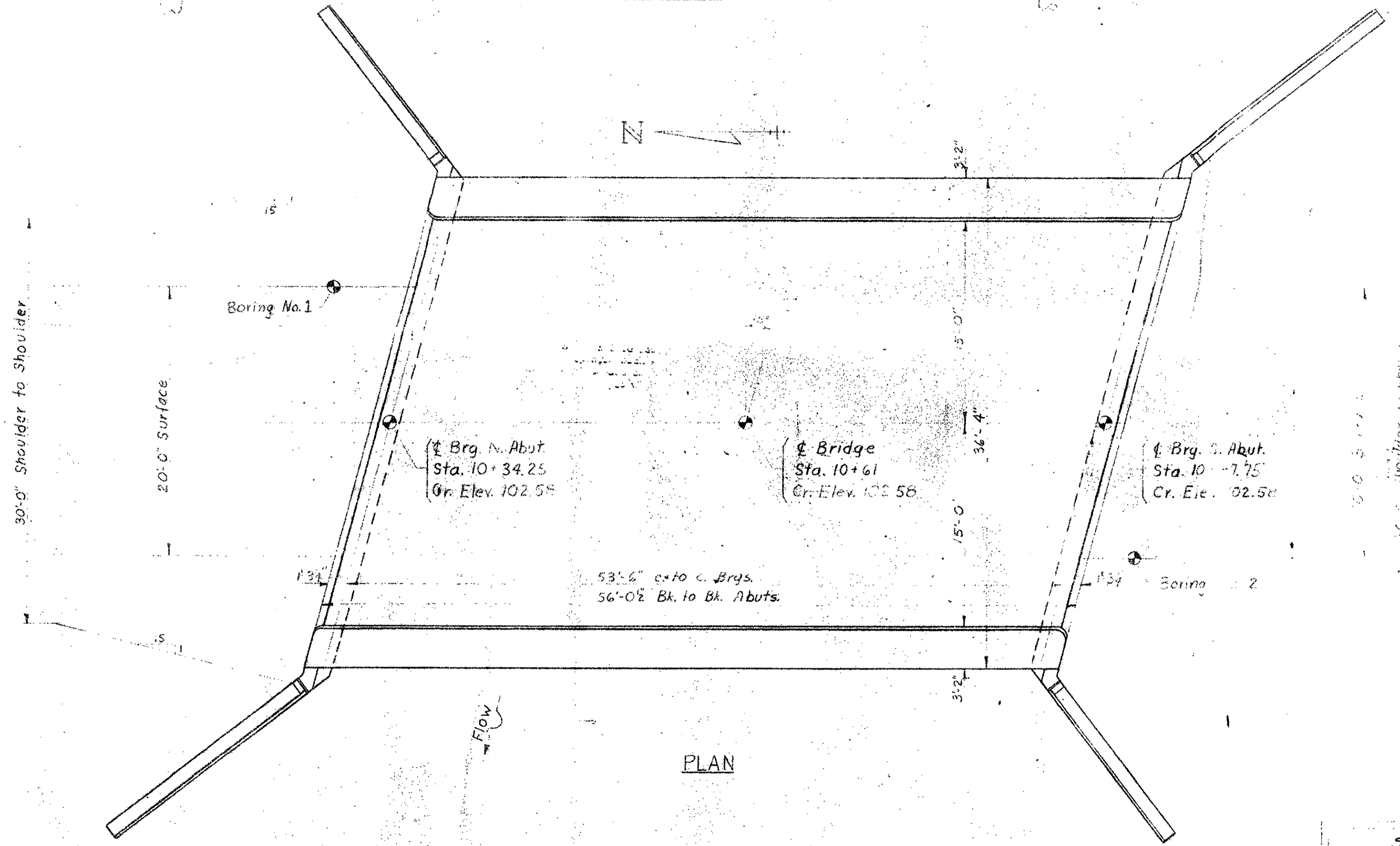
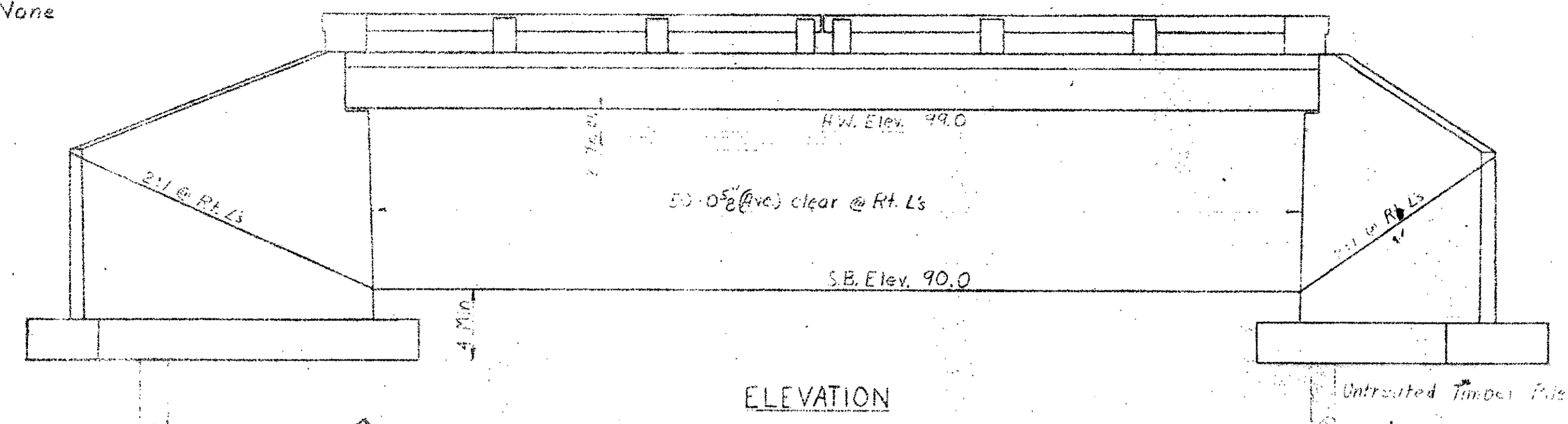
*** Weld size per pile shoe manufacturer (7/16" min.).

F-HP

2-17-2017

FILE NAME = 13-224-PILES.dgn	USER NAME = myyoung	DESIGNED - A.L.S.	REVISED -	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 104-00525	FREPORT, IL	ROCKFORD, IL	HP PILE DETAILS S.N. 045-3066 SHEET NO. 17 OF 19 SHEETS	F.A.S. RTE. 97	SECTION 08-00024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 38
PLOT SCALE = *SCALE*	DRAWN - A.D.S.	REVISED -	ROCHELLE, IL		SPRINGFIELD, IL	CONTRACT NO. 61A77						
PLOT DATE = 8/9/2017	CHECKED - R.E.A.	REVISED -	MONROE, WI		ILLINOIS FED. AID PROJECT							
					*13-224							

BM #2 - Spike & nail
 32' Rt. to S.M. 12+77 -- EL. 91.21
 Existing Structure: 5' x 2' span H.C. deck
 40' clear span on 40' piers
 & wings, 20' roadway
 Salvage: None



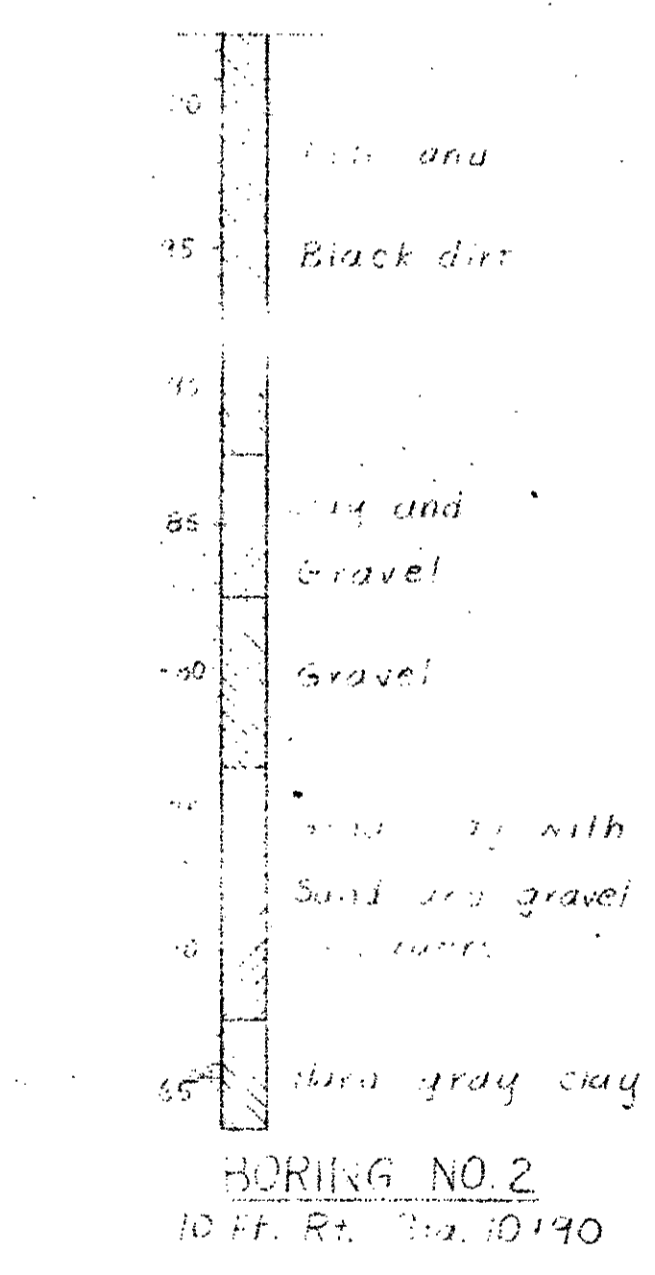
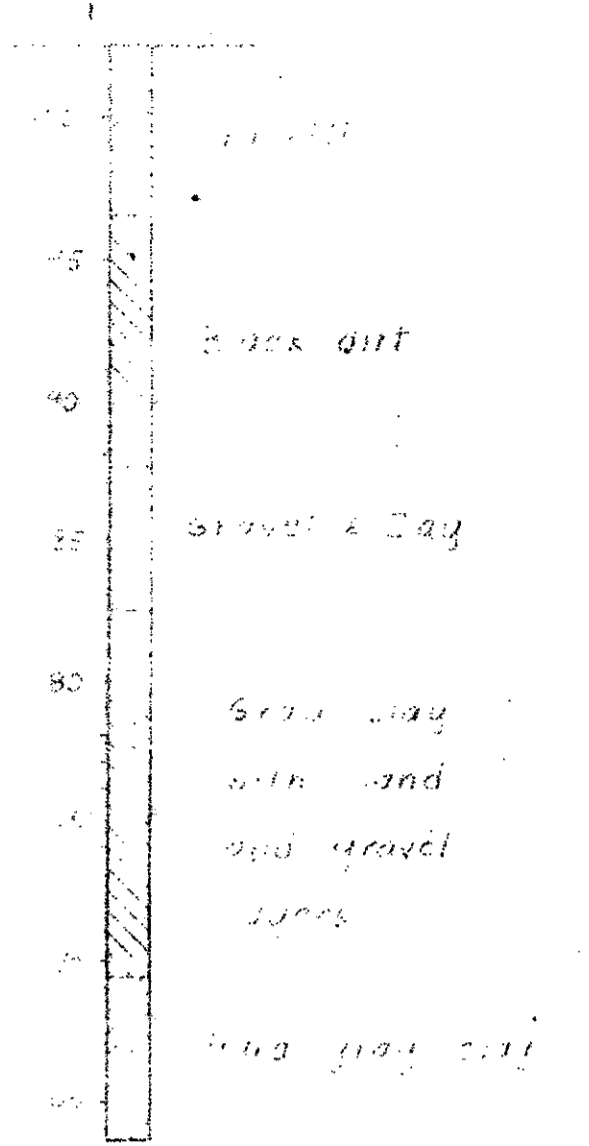
WATERWAY INFORMATION

Drainage Area	36,700 Acres
Character	level, cultivated
Required Opening (25 yr. flood)	450 Sq. Ft.
Present Opening	400 Sq. Ft.
Proposed Opening	450 Sq. Ft.

DESIGN STRESSES

FIELD UNITS	PRECAST	PRESTRESSING UNITS
$f_c = 1400$ p.s.i. (super)	$f_c = 5000$ p.s.i.	
$f_s = 20000$ psi (keinf.)	$f_s = 4000$ psi	
$w_c = 75$ psi (footings)	$f_s = 248,000$ p.s.i.	
$n = 10$	$f_{st} = 173,000$ psi	
$f_c = 1000$ p.s.i. (subst.)		

STATION 10+61
 FRANCISCO BRIDGE
 OVER UNION DRAINAGE DITCH NO. 3
 DEKALB & KANE COUNTIES
 SECTION 24-B-MFT
 LOADING H20-S16



GENERAL NOTES

1. Class A concrete shall be used throughout except in handrails and prestressed concrete beams.
 2. Similar concrete shall be used in handrails, railings and railing shall be poured in separate operations.
 3. Reinforcement bars shall be lapped 20 diameters unless otherwise noted.
 4. The contractor shall drive one timber test pile in each abutment as directed by the Engineer before entering the remainder of piers.
 5. The backs of abutments and wingwalks shall be waterproofed in accordance with Art. 51 of the Standard Specifications from the top of the footing to the ground surface.
 6. The cost of Class A and Class B Excavation for Structures shall be included in the Contract Unit Price bid for Class X Concrete and no additional compensation will be allowed, estimated quantity for Class A Excavation for Structures = 51 Cu Yds. for Class B Excavation for Structures = 370 Cu Yds.
 For Bridge Deck Sealant see Special Provisions.
 For Protective Coat, see Special Provisions.

FOR INFORMATION ONLY

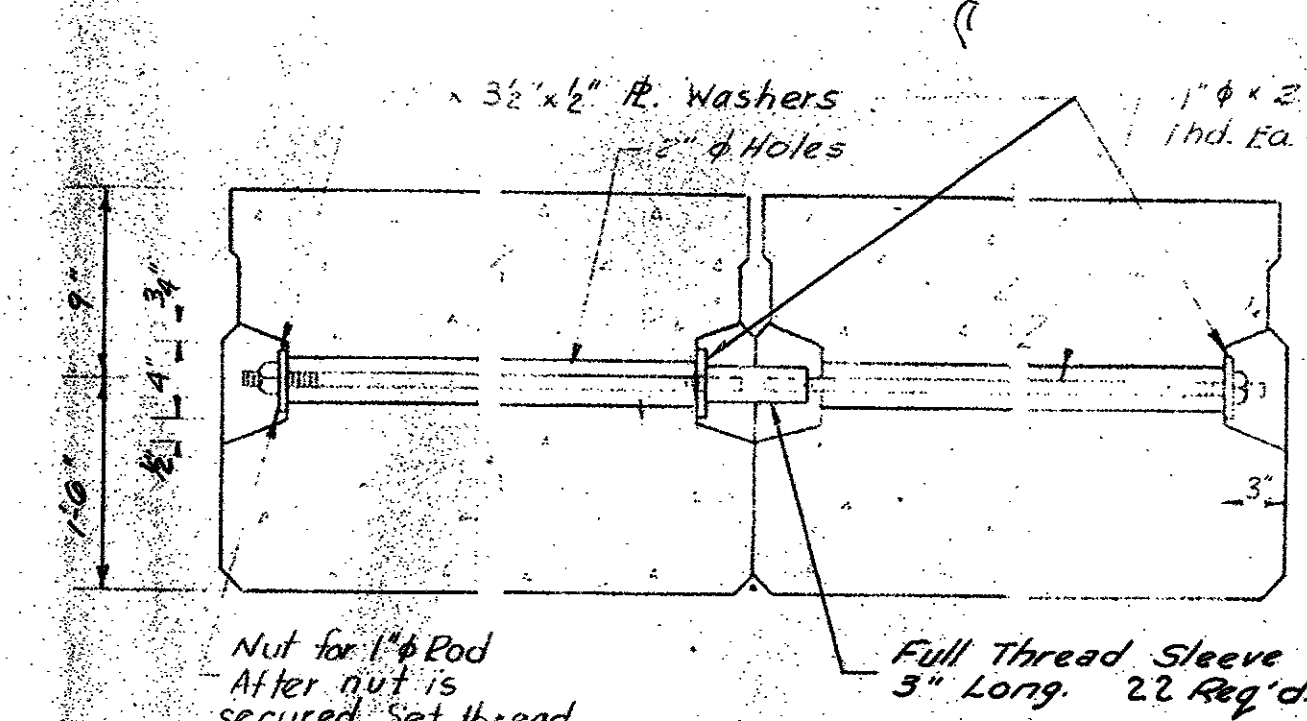
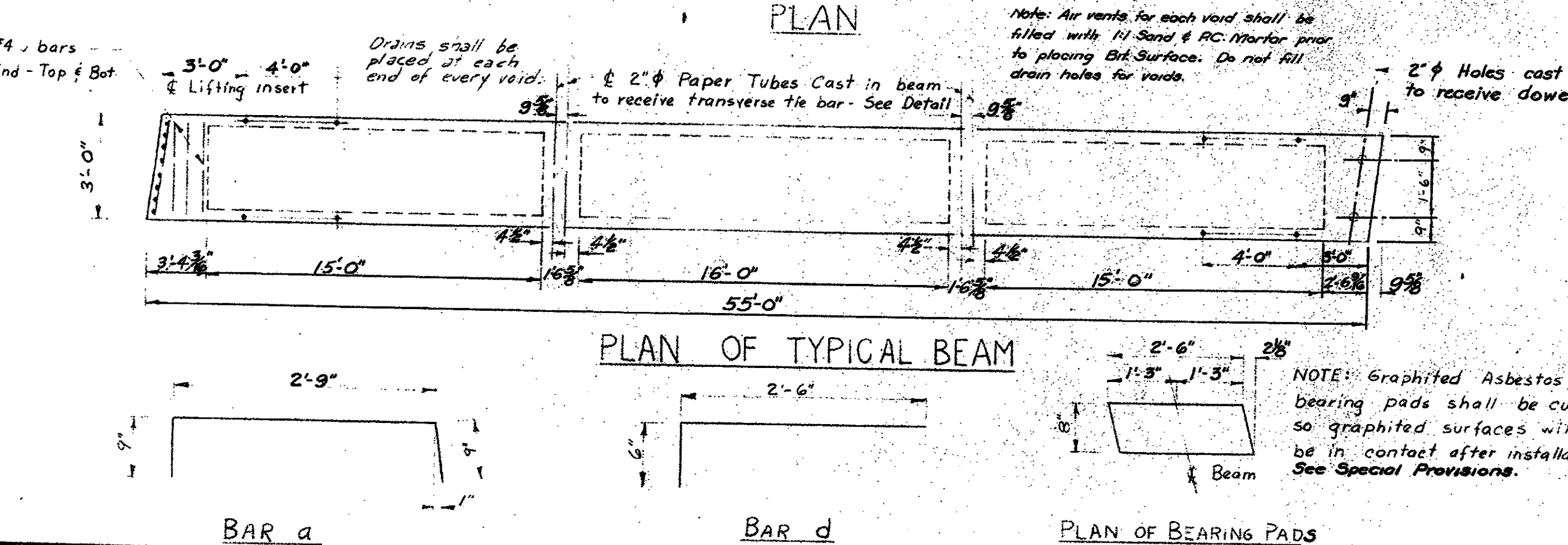
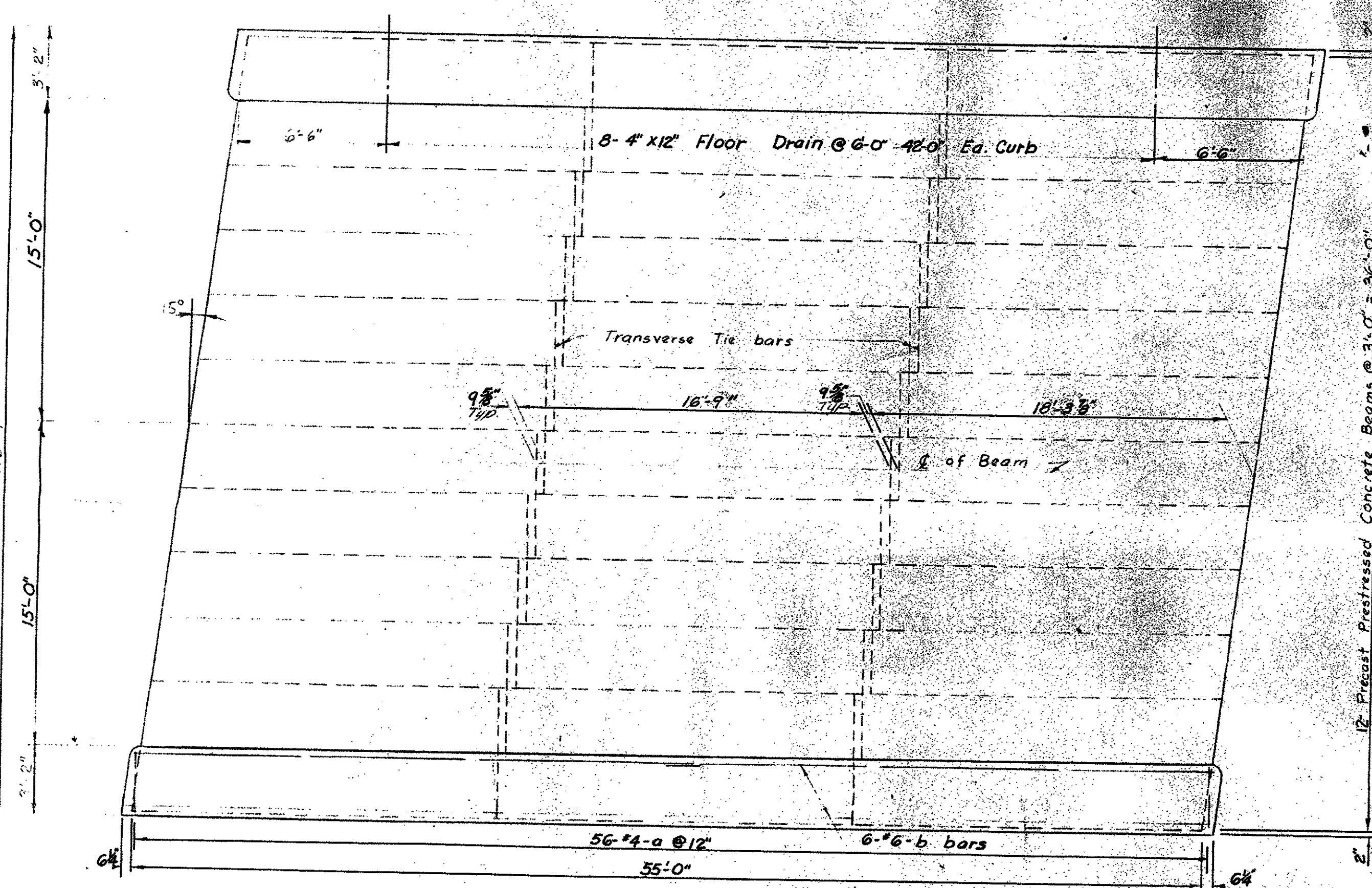
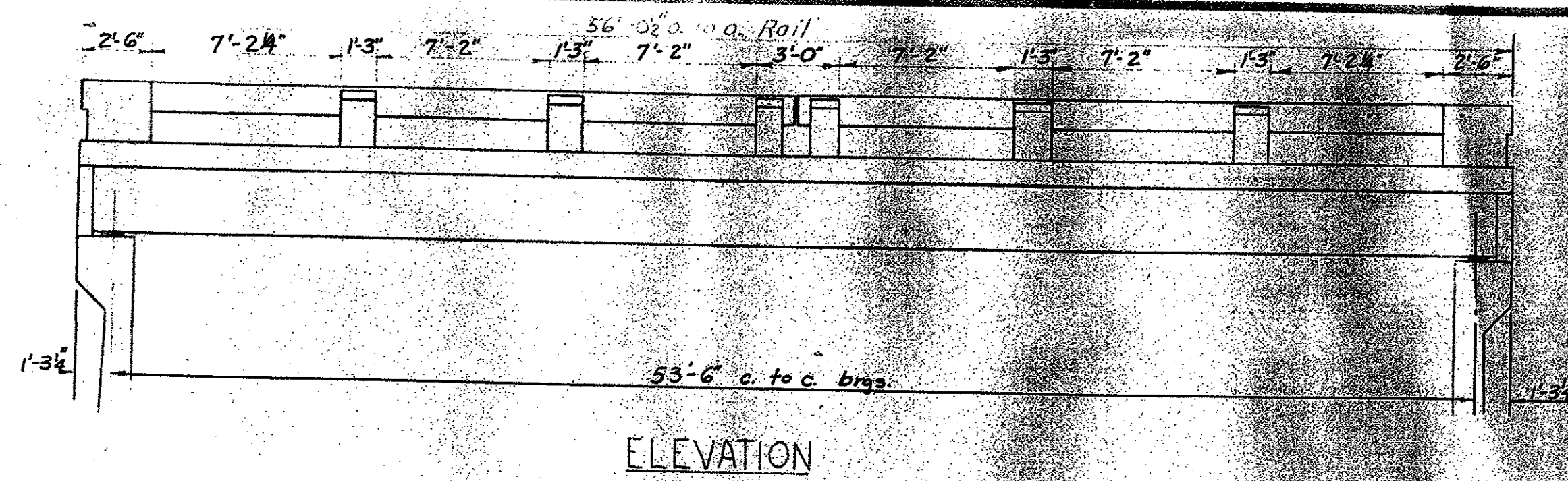
TOTAL BILL OF MATERIALS - BRIDGE

Item	Super	Sub	Tota.
Class X Concrete	Cu. Yds. 12.0	170.3	182.3
Reinforcement Bars	Lbs. 2.00	11230	11232
Handrail Concrete	Cu. Yds. 3.3		3.3
Precast Prestressed Conc. Bridge Deck - Sq. Ft.	1980		1980
Bit. Materials (Prime Coat)	Gals. 18		18
Bit. Conc. Surface Course Sub-cl. Ill. - Tons	15		15
Furnishing Int. Piles up to 30'	Lin. Ft.	1800	1800
Dist. Timber Piles	Lin. Ft.	1800	1800
Est. Piles (Timber)	Each	2	2
Name Plates	Each		1
Removal of Existing Structures	Each		1
Protective Coat	Sq. Yds. 96		96
Bridge Deck Sealant	Sq. Yds. 183		183

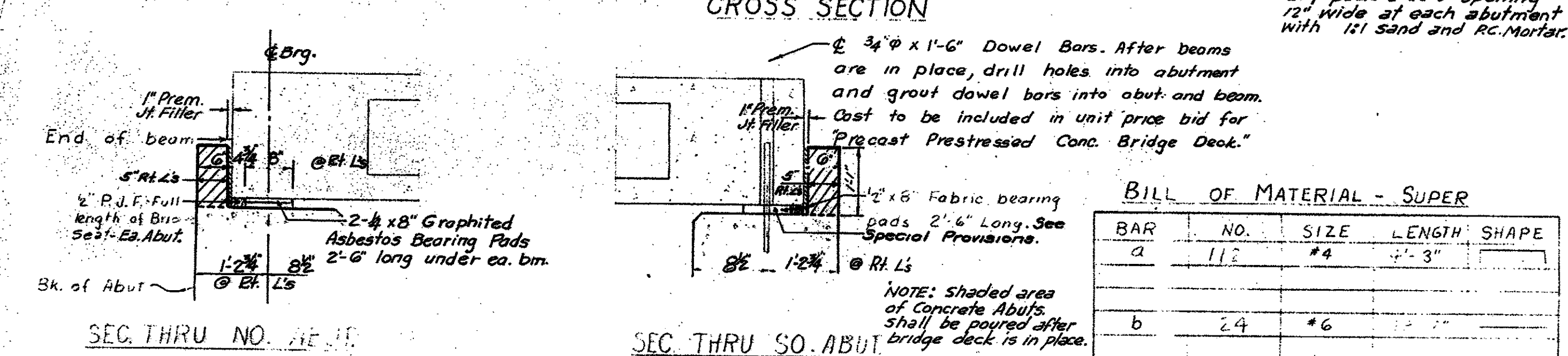
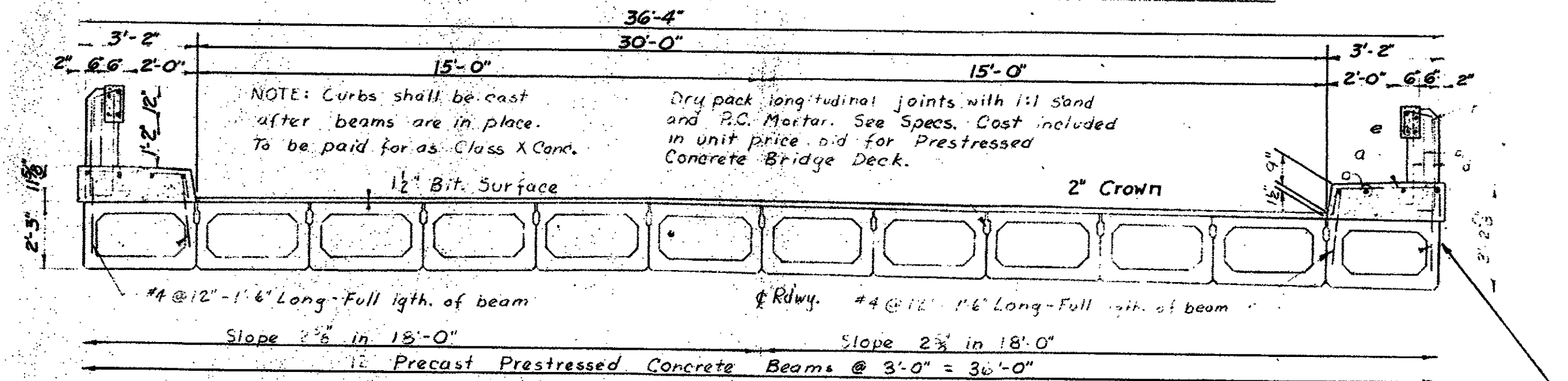
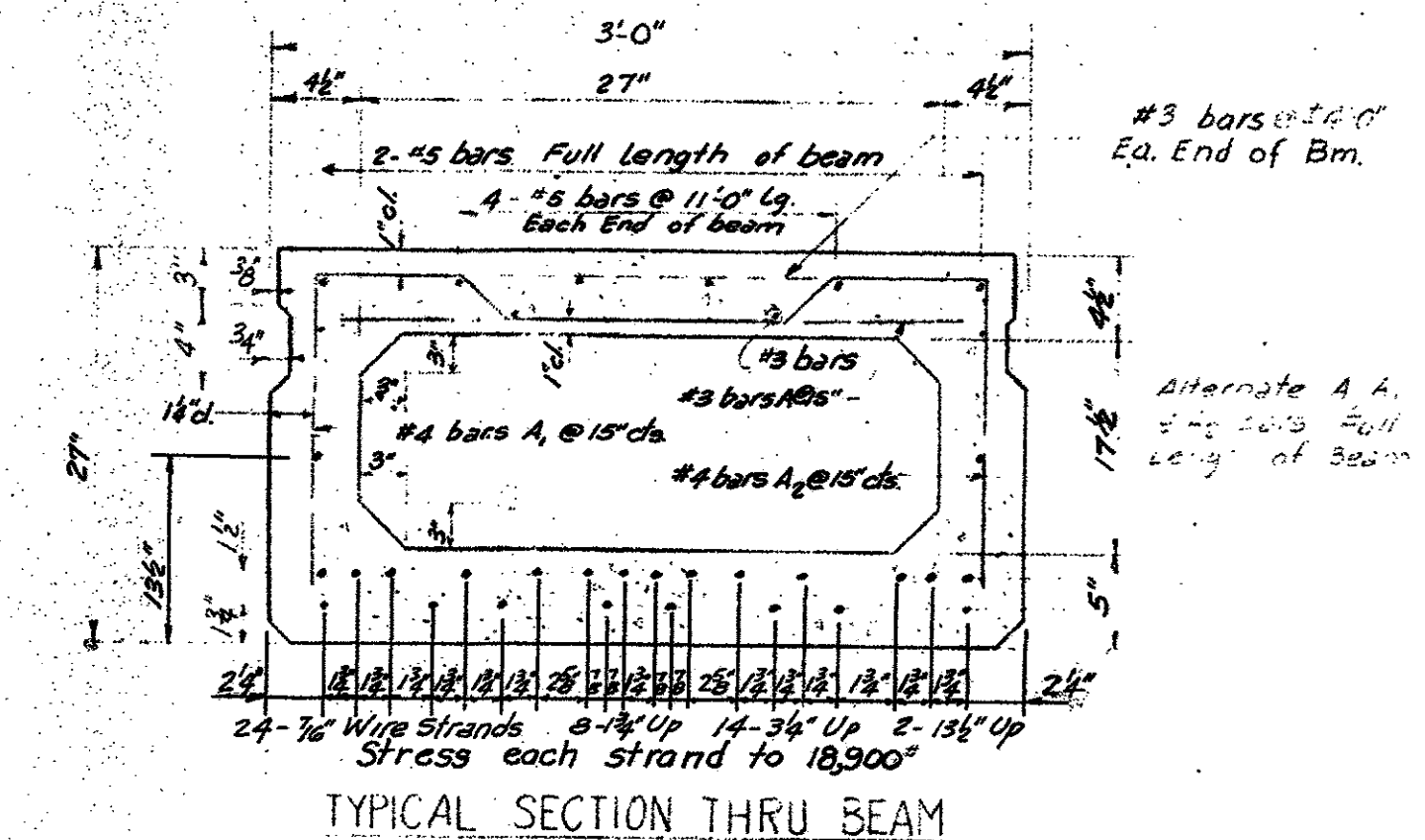
FRANCISCO BRIDGE
 OVER UNION DRAINAGE DITCH NO. 3
 SEC. 24-B-MFT DEKALB & KANE CO.

GENERAL PLAN AND ELEVATION

LAYOUT BY: H.P.W. DATE: 9-22-63	PLANS PREPARED BY: S.W. KNETSCH AND ASSOCIATES	REVISIONS
CHECKED BY: H.P.W.	CONSULTING ENGINEERS DEKALB COUNTY	



TYPICAL TRANSVERSE TIE ASSEMBLY
Cost of assembly of transverse ties is included in unit price bid for "Precast Prestressed Concrete Bridge Deck."



BILL OF MATERIAL - SUPER

BAR NO.	SIZE	LENGTH	SHAPE
a	#4	2'-3"	
b	#6		
d	#5	3'-0"	

Class X Concrete Cu.Yds. 12.0

Reinforcement Bars LBS. 1570

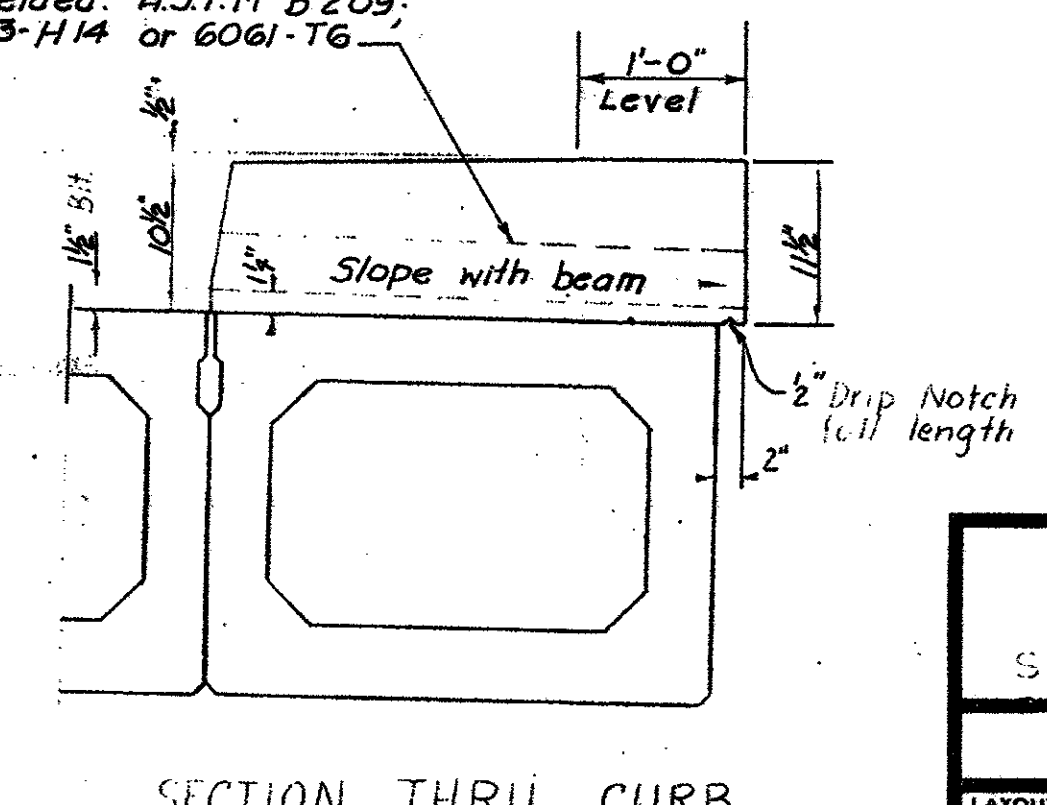
Precast Prest. Conc. Bridge Deck Sq.Ft. 1980

Bit. Materials (Prime Coat) Gals. 15

Bit. Conc. Surf. Crse. Sub-cl. I-11 Ton 15

Protective Coat Sq.Yd. 96

Bridge Deck Sealant Sq.Yd. 183



FOR INFORMATION ONLY

FRANCISCO BRIDGE
OVER UNION DRAINAGE DITCH NO. 3
SEC. 24-B-MFT DEKALB & KANE CO.

SUPERSTRUCTURE

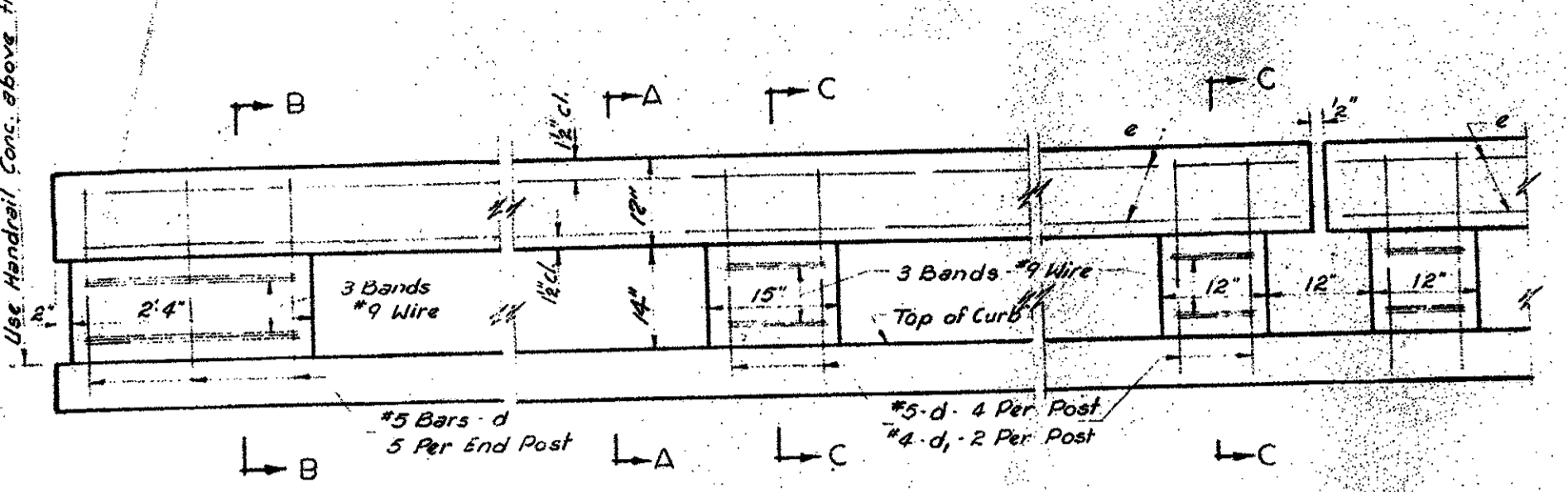
LAYOUT BY: HPW
DATE 4-9-63
TRACED BY: HPW
DATE 3-1-63
CHECKED BY: DEH
DATE 4-30-63
APPROVED BY:

PLANS PREPARED BY
S.W. KNETSCH
AND ASSOCIATES
CONSULTING ENGINEERS
DEKALB, ILLINOIS

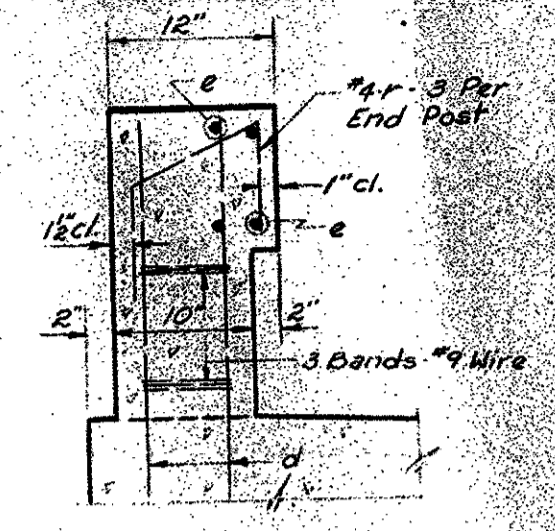
REVISIONS
BY DATE

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BLDGS
DIVISION OF HIGHWAYS

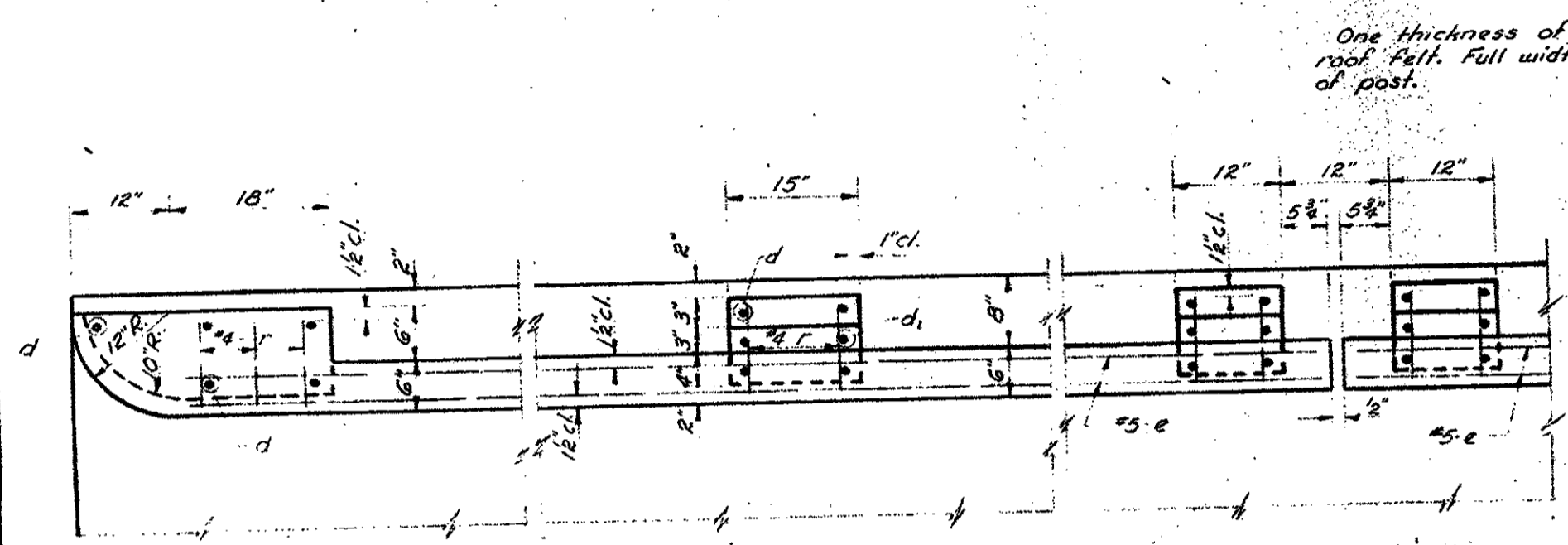
Use Handrail Cons. above this line.



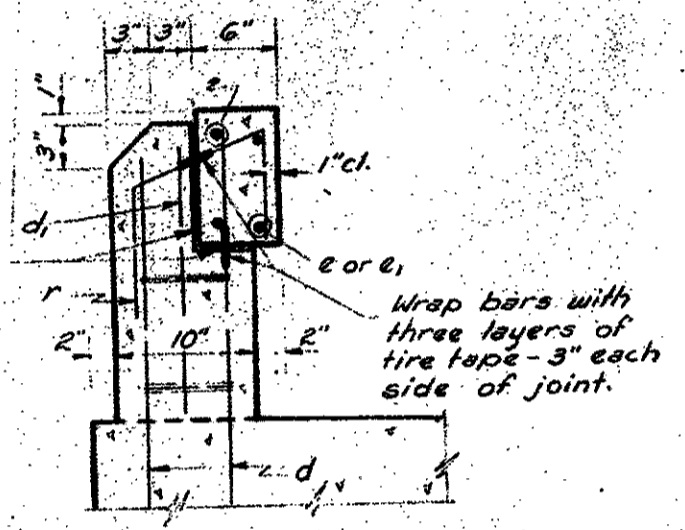
INSIDE ELEVATION OF RAIL



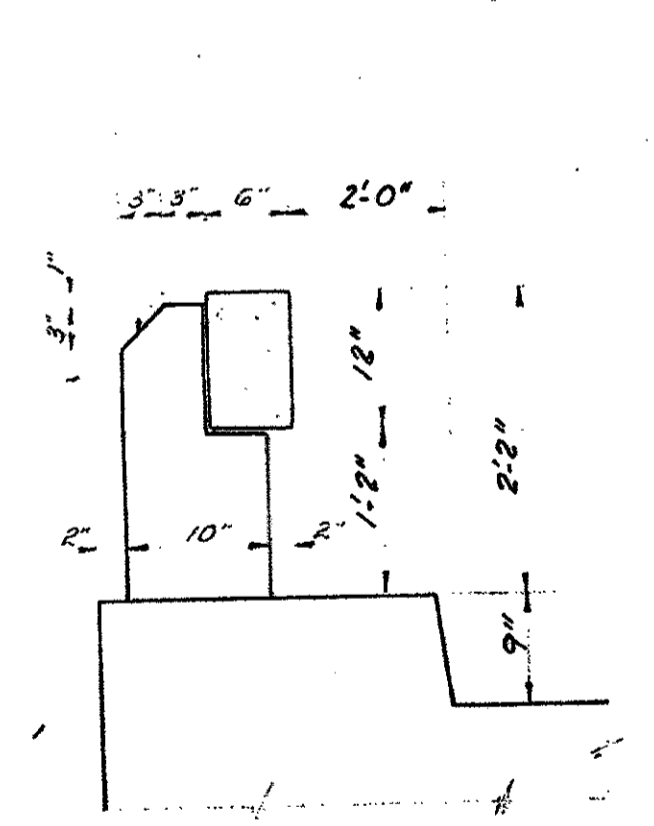
SECTION B-B



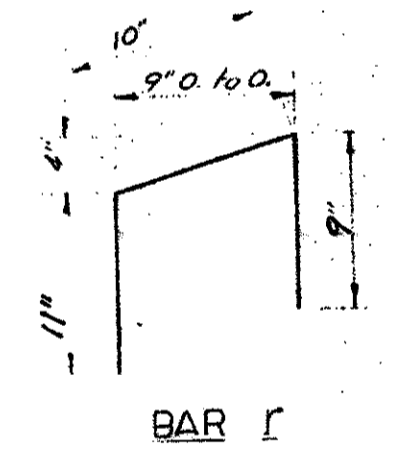
PLAN OF RAIL



SECTION C-C



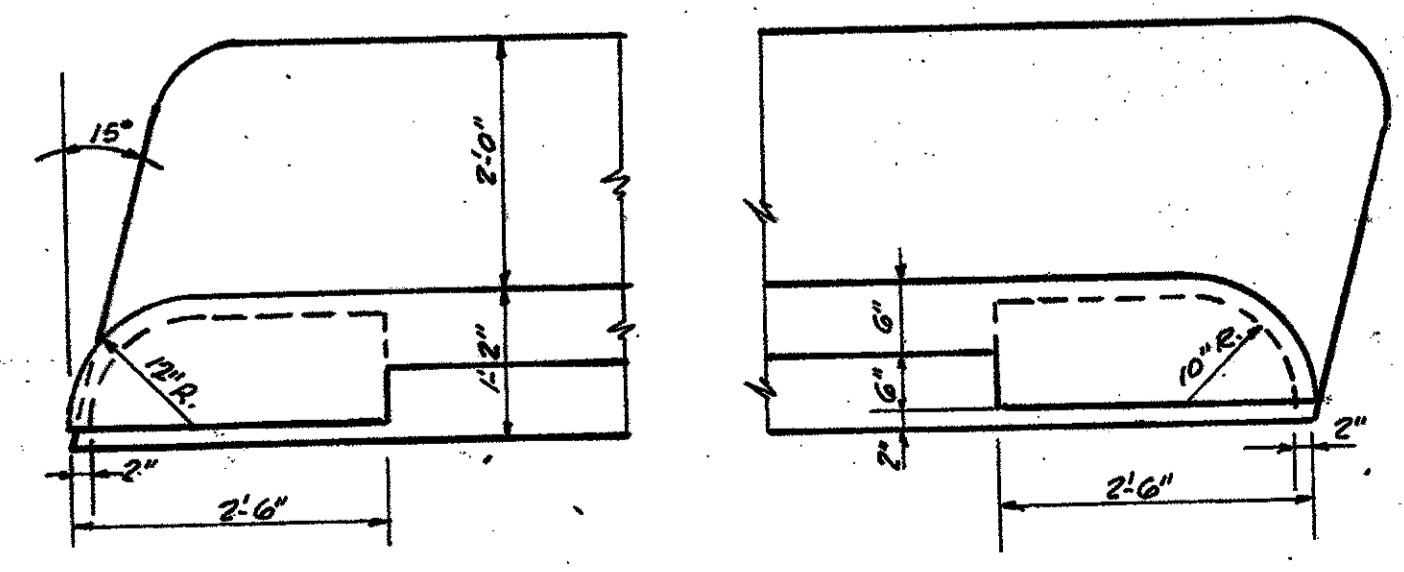
SECTION A-A



BILL OF MATERIAL

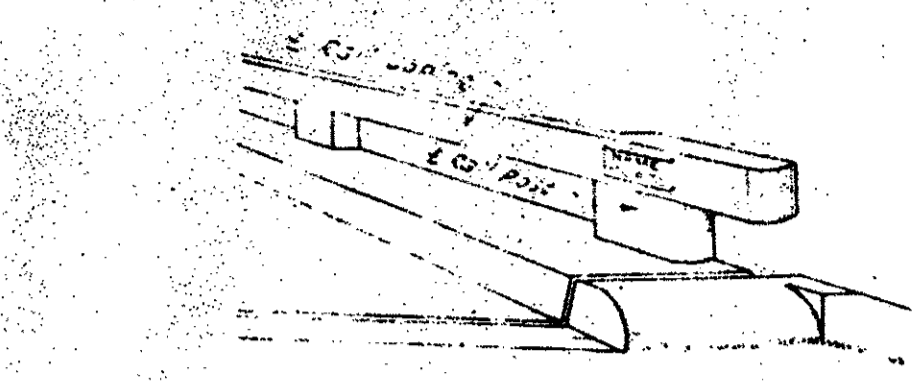
BAR NO.	SIZE	LENGTH	SHAPE
e	#5	26'-6"	—
r	#4	2'-6"	—
d	#4	1'-11"	—
Handrail Concrete Cu Yds			33
Reinforcement Bars Lbs			530

NOTES:
Cost of #9 wire shall be included in the contract unit price for Handrail Concrete.
See Bridge Plans for spacing of posts.
Use double posts & 5' open joint only where called for on Bridge Plans.

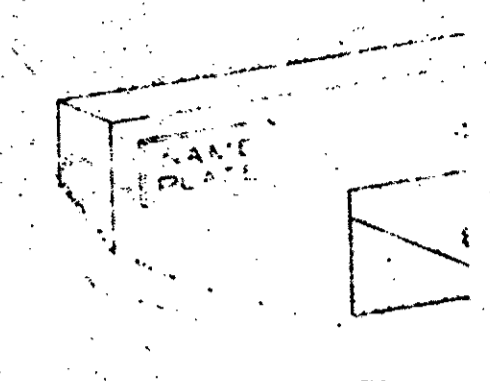


ENDPOST DETAILS

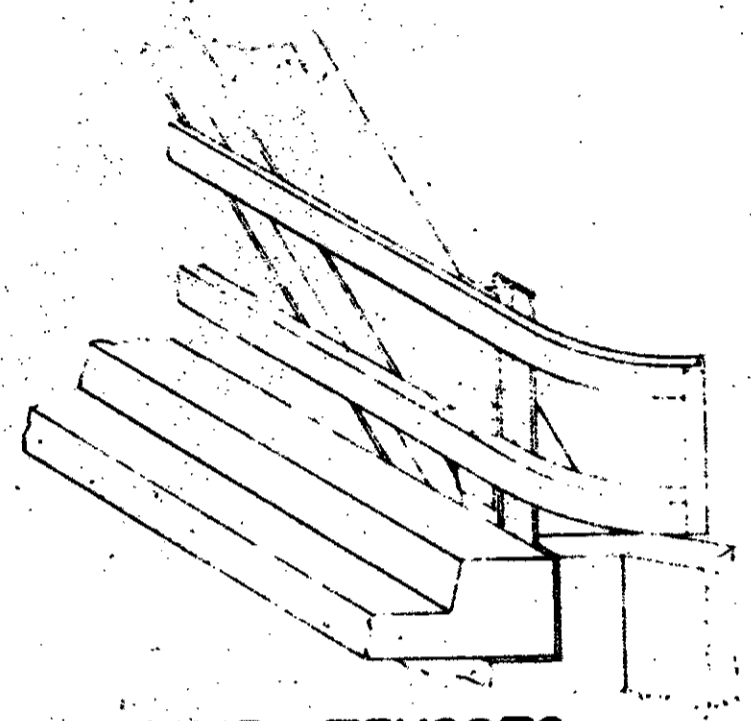
FRANCISCO BRIDGE OVER
UNION DRAINAGE DITCH NO. 3
SECTION 24-B-MET
DEKALB AND KANE COUNTIES
HANDRAIL DETAILS



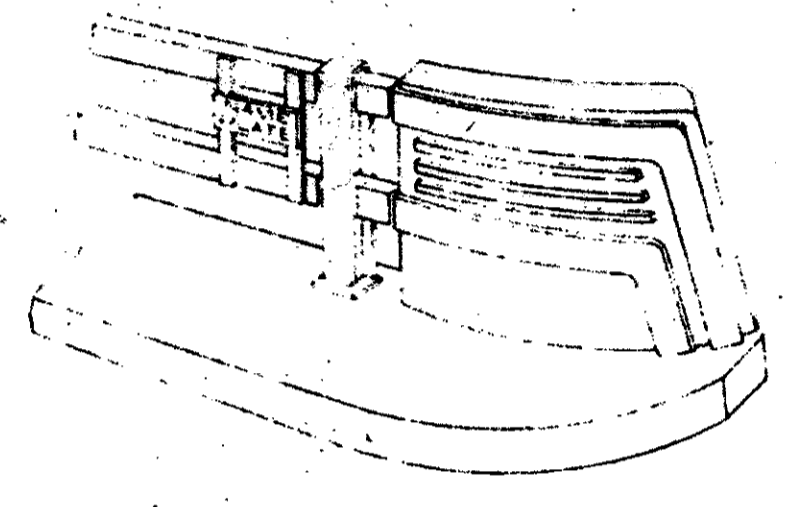
FOR CONCRETE RAILS



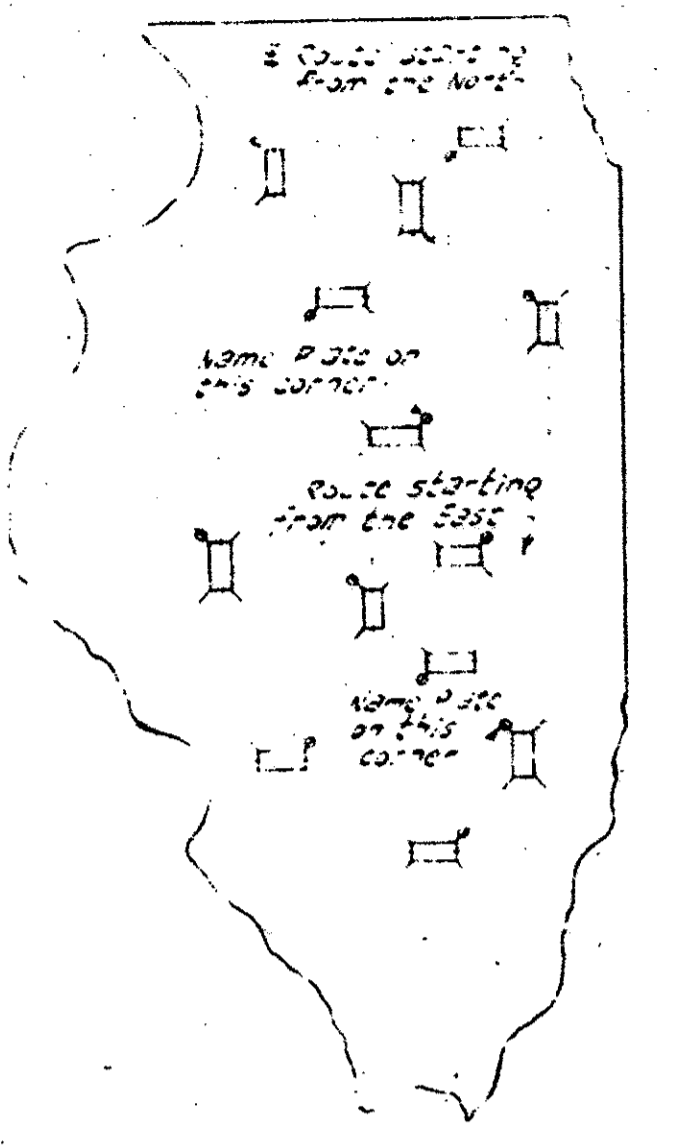
FOR CULVERT HEADWALLS



FOR TRUSSES



FOR STEEL RAILS



SEC. A-A

FOR INFORMATION ONLY

SEE DESIGN PLANS
FOR
LETTERING

EXAMINED
PASSED
APPROVED
1953
ENGINEER OF BRIDGE TRAFFIC STRUCTURES
ENGINEER DESIGN
CHIEF HIGHWAY ENGINEER

MATERIAL: Best quality, brass or bronze.
LETTERING: Raised 1/8 inch square cut and not tapered. Top surface polished.
FOR CONCRETE RAILS: Four sets of 1635 three inches long, case on back of plate.
FOR HEADWALLS: Subways: Plate to be greened on steel member at fabricating shop by dipping around crown perimeter of plate.
FOR STEEL TRUSS SPAN: Plate to be polished on with 4 x 4 brass or bronze hex head bolts. Plate to be centered on 1/2 of post & 1/2 of handrail coating.
FOR STEEL RAILS: Place 20 to 200 past about 1/2 inch above roadway.
FOR STEEL TRUSS SPAN: Place midway between horizontal rail members.
FOR SUBWAYS: See design plans for location.

DETAIL OF
NAME PLATE FOR BRIDGES

FILE NAME = 13-224-EX-PLANS.dgn

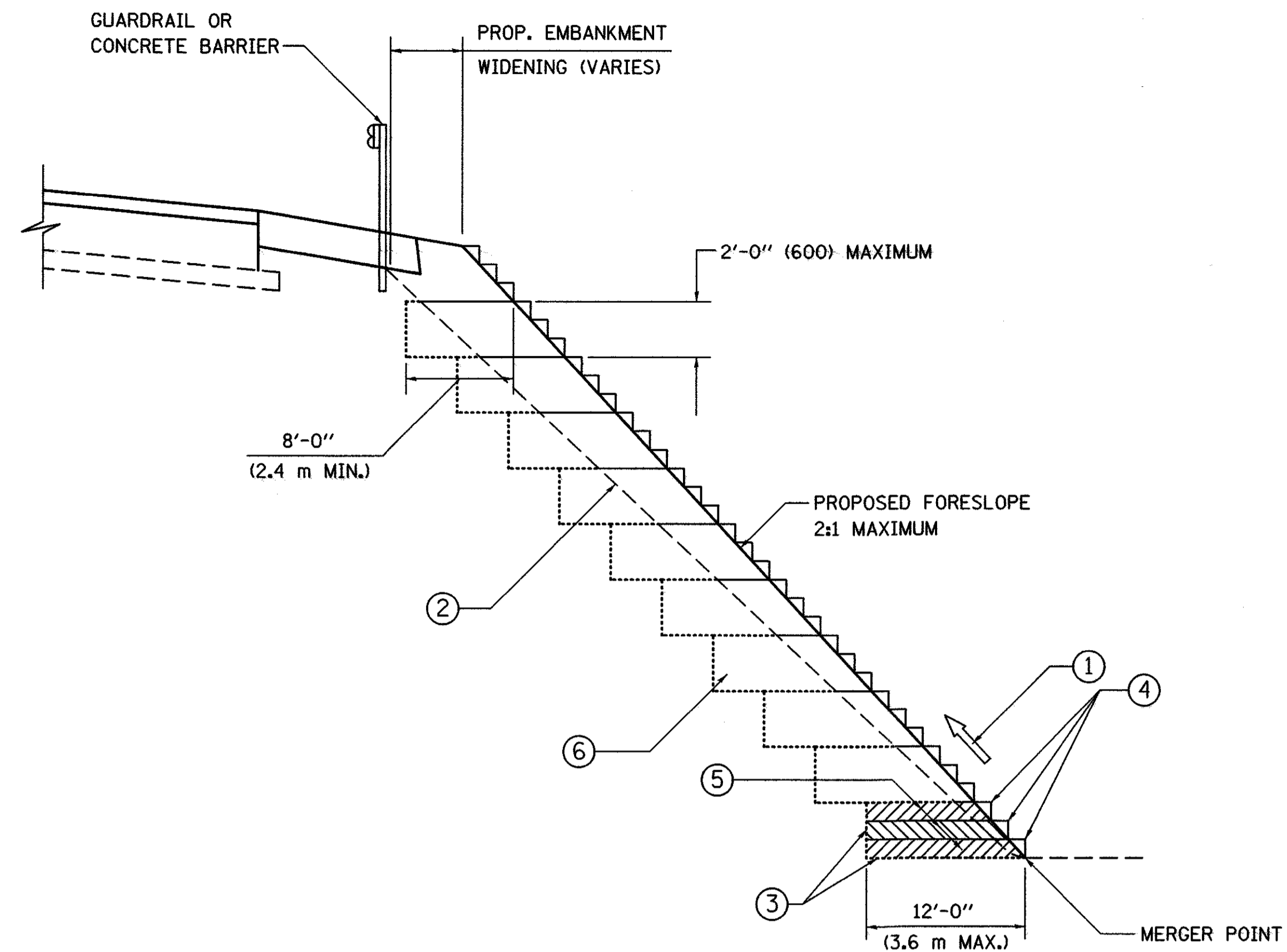
USER NAME = myoung
DESIGNED - A.L.S.
CHECKED - R.E.A.
DRAWN - A.D.S.
PLOT DATE = 8/9/2017
CHECKED - R.E.A.

REVISED -
REVISED -
REVISED -
REVISED -

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 104-90205
FREEPORT, IL ROCKFORD, IL
ROCHELLE, IL SPRINGFIELD, IL
MONROE, WI

FOR INFORMATION ONLY
S.N. 045-3066
SHEET NO. OF 19 SHEETS

F.A.S. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
97 08-00024-01-BR KANE 56 44
CONTRACT NO. 61A77
ILLINOIS FED. AID PROJECT



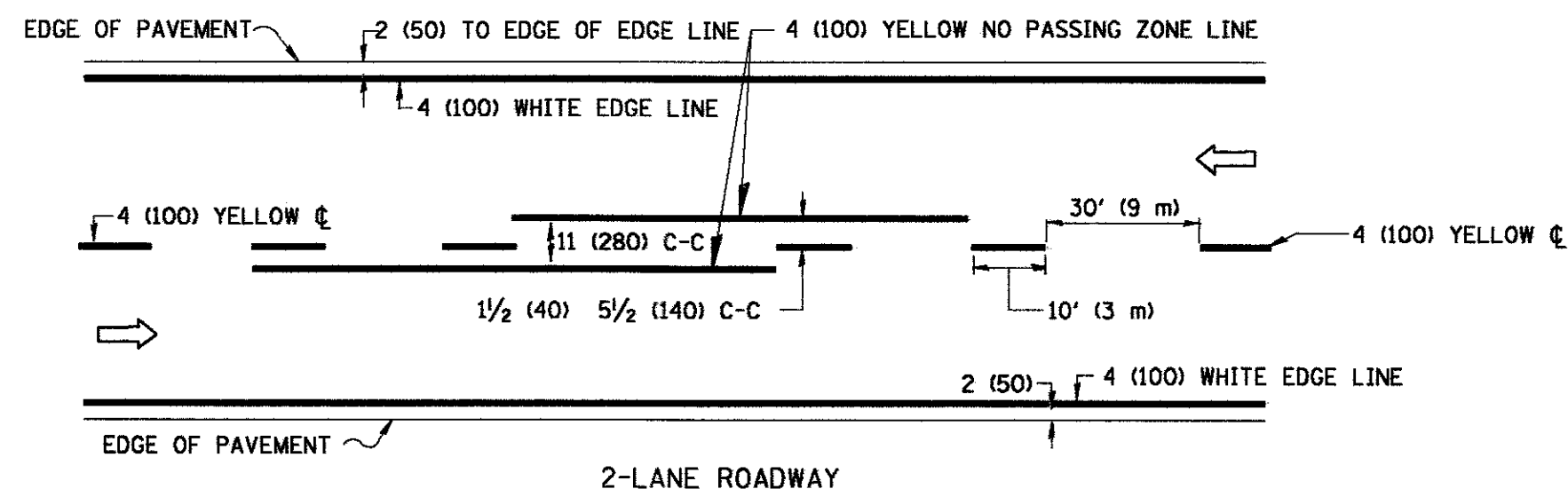
**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

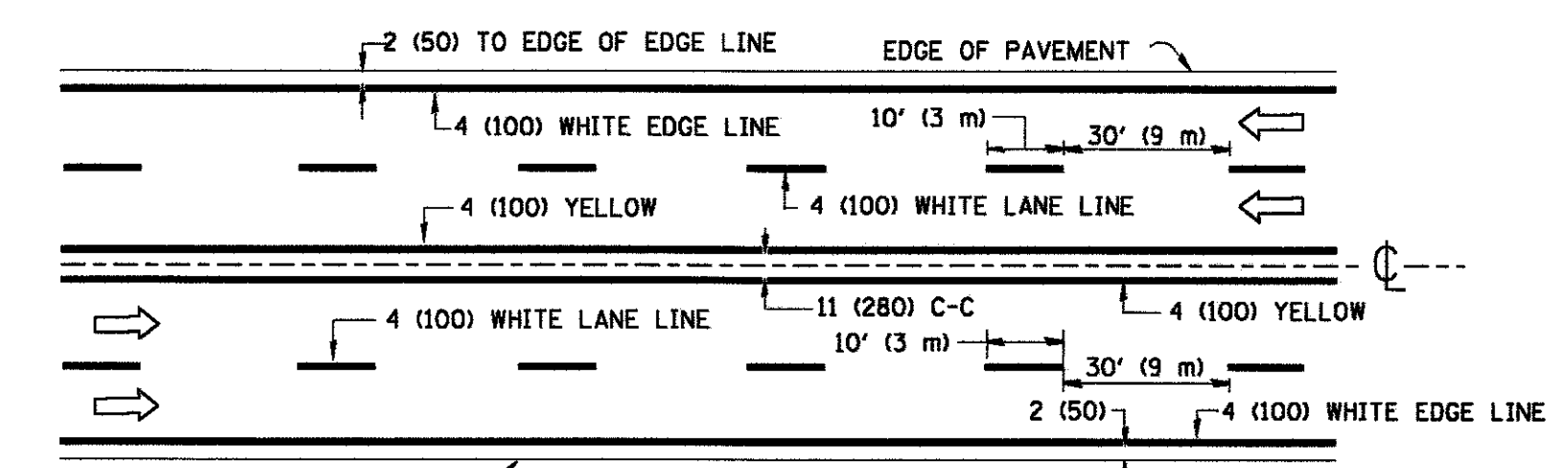
- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

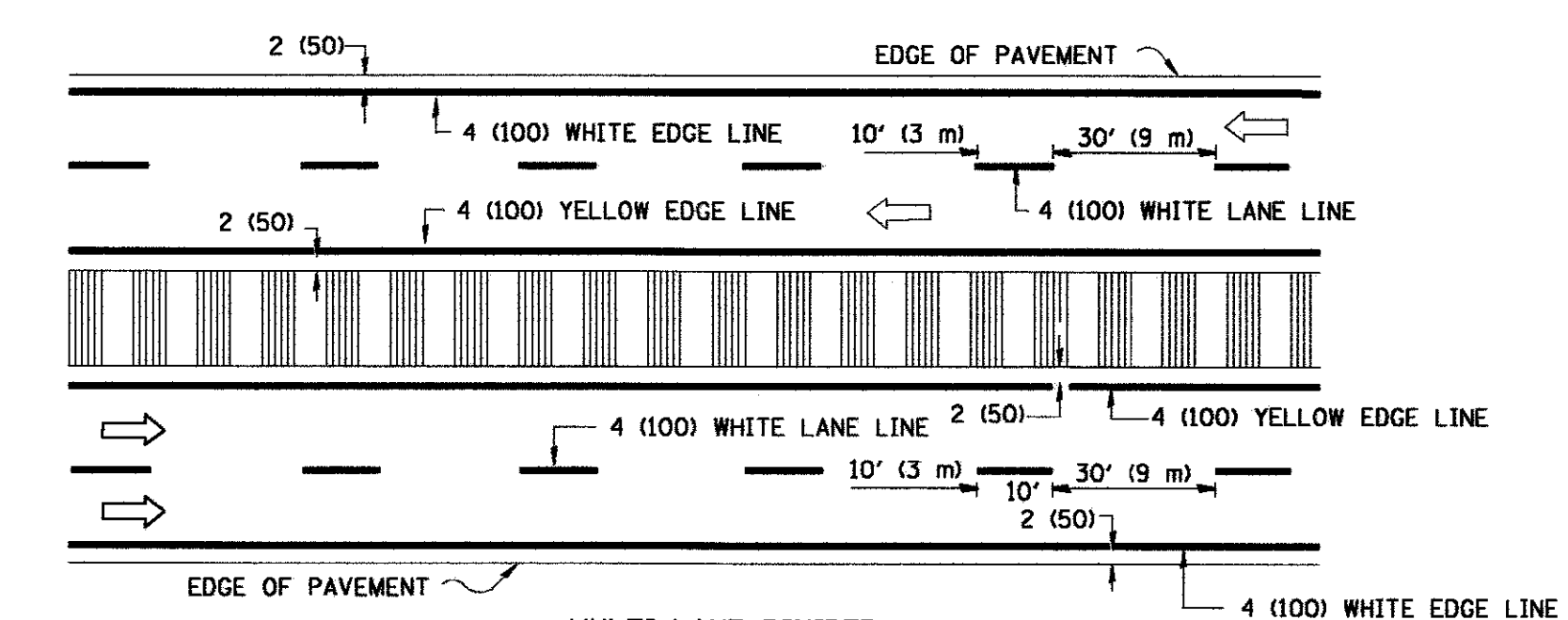
FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FORM NO. 104-000005</small>	FREEPORT, IL	ROCKFORD, IL	BENCHING DETAIL FOR EMBANKMENT WIDENING	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
USER NAME = myoung	DRAWN - A.D.S.	REVISED -			ROCHELLE, IL	SPRINGFIELD, IL		97	08-00024-01-BR	KANE	56	45		
PLOT SCALE = #SCALE#	CHECKED - R.D.F.	REVISED -			MENROE, WI			SCALE: #SCALE#		PROPOSED STRUCTURE @ STA.		CONTRACT NO. 61A77		
PLOT DATE = 8/9/2017	DATE - 8/9/2017	REVISED -								FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



2-LANE ROADWAY



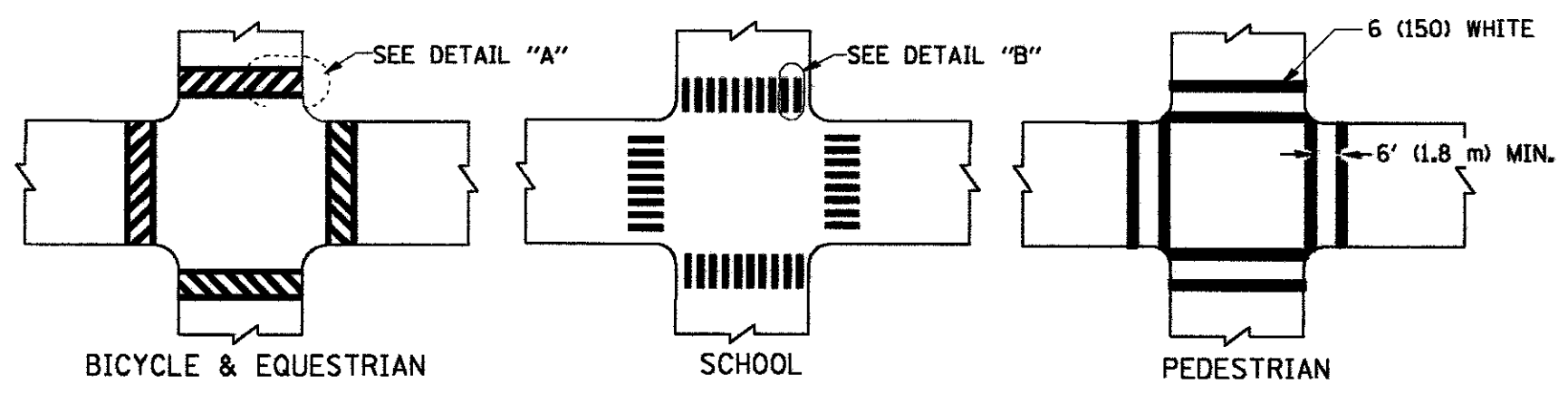
MULTI-LANE UNDIVIDED



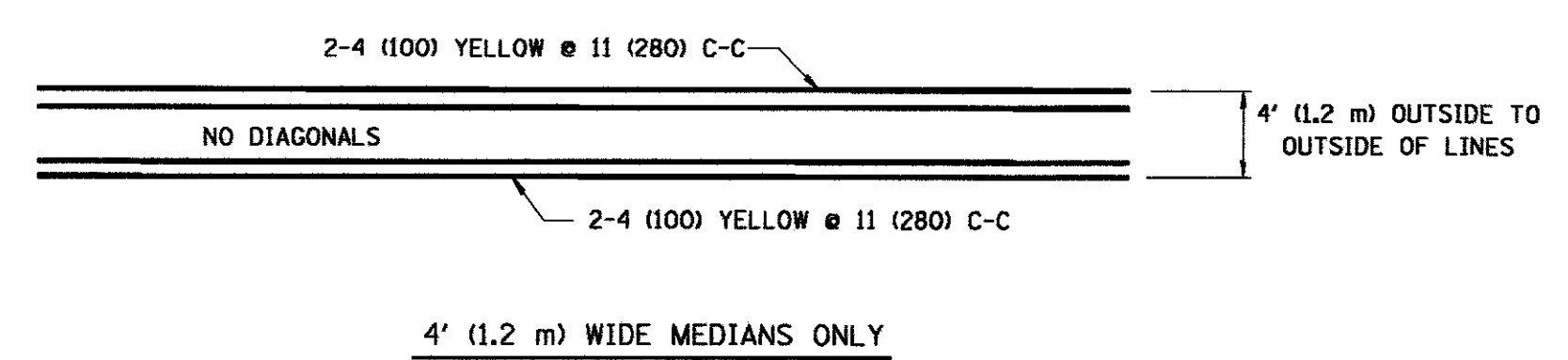
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

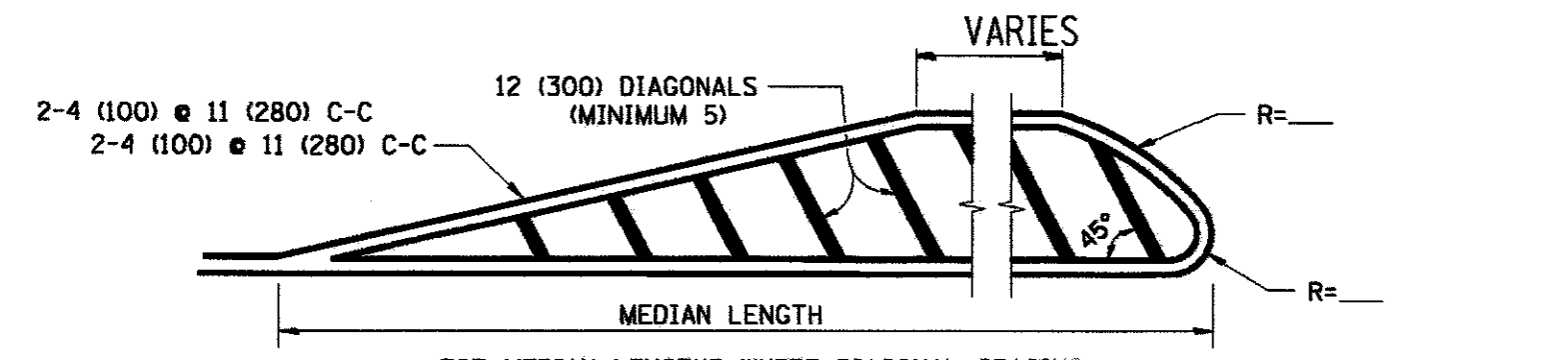
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



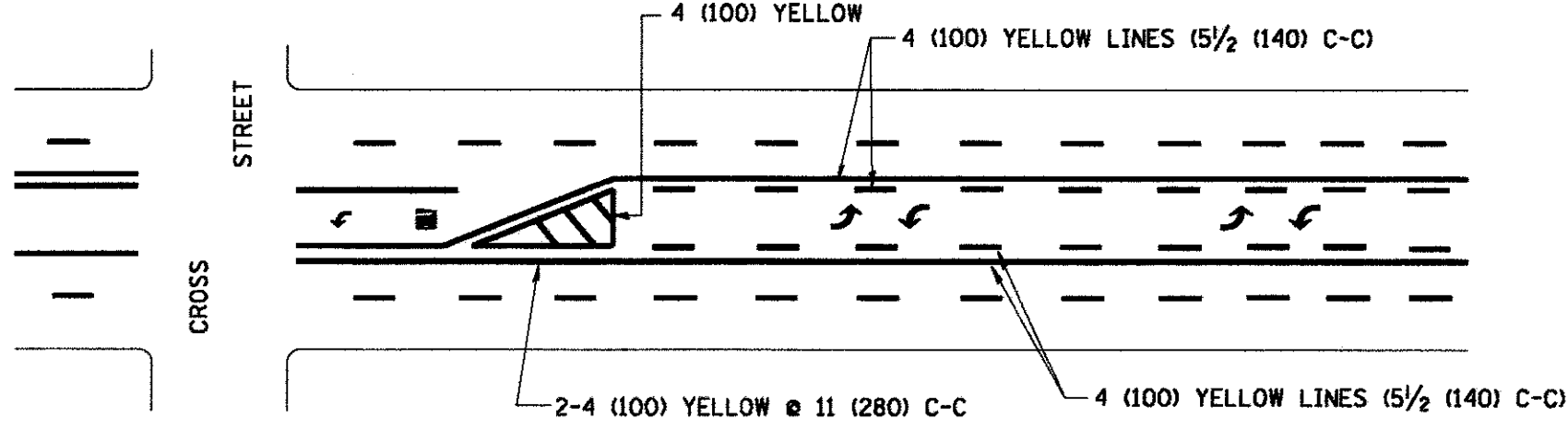
4' (1.2 m) WIDE MEDIANS ONLY



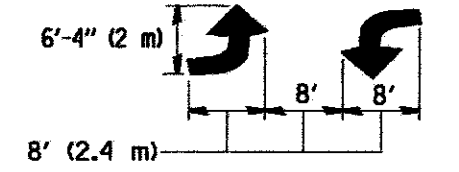
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

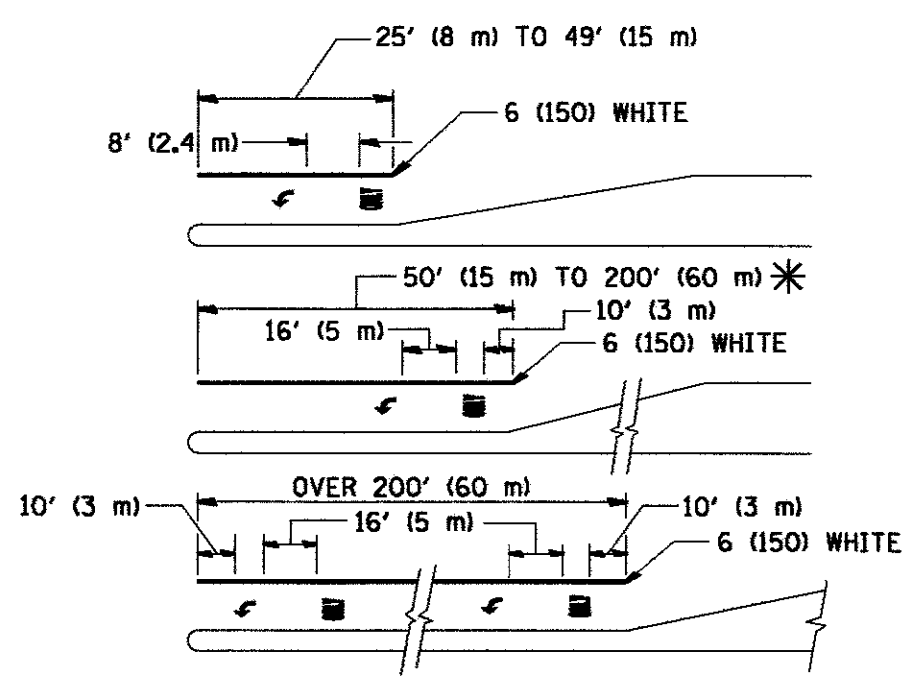


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

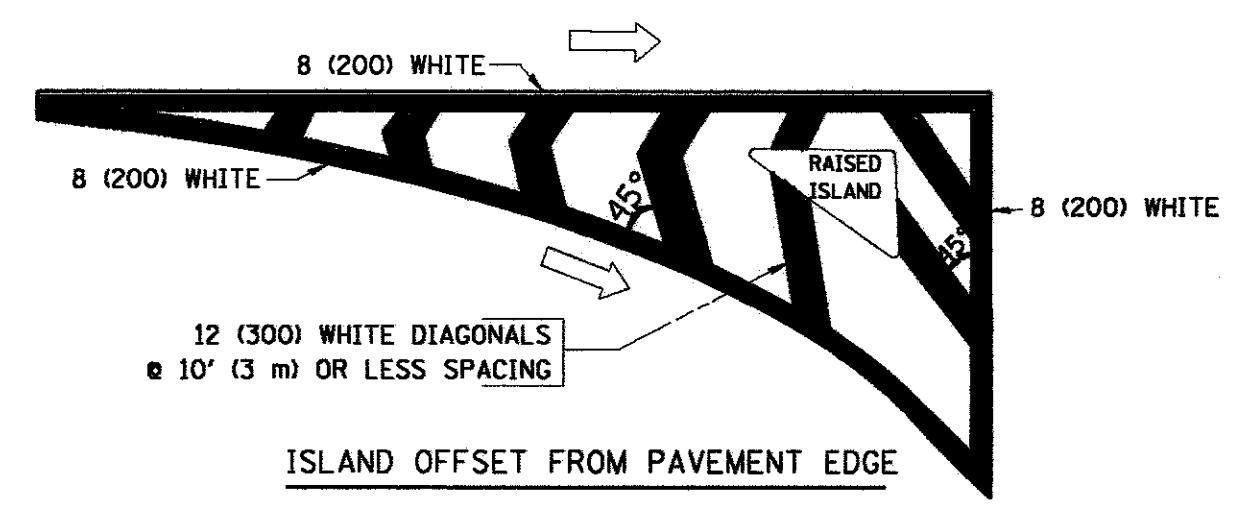


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)

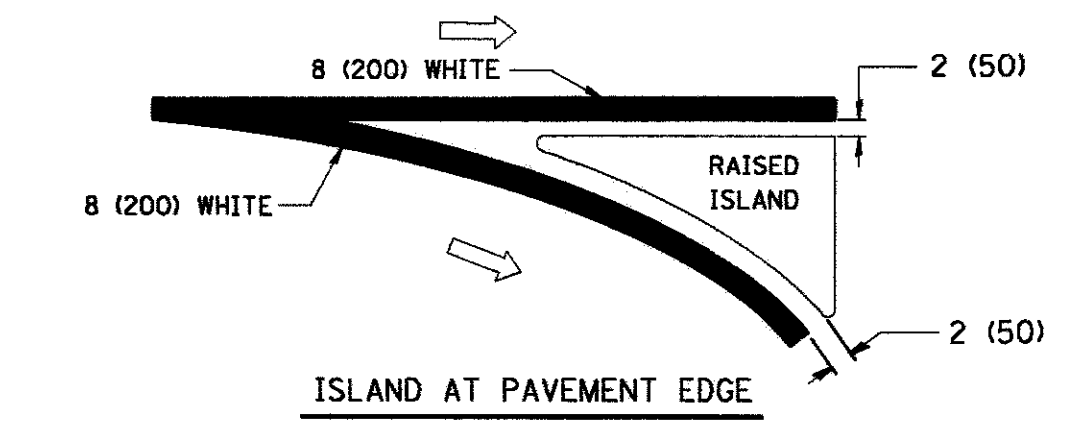
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



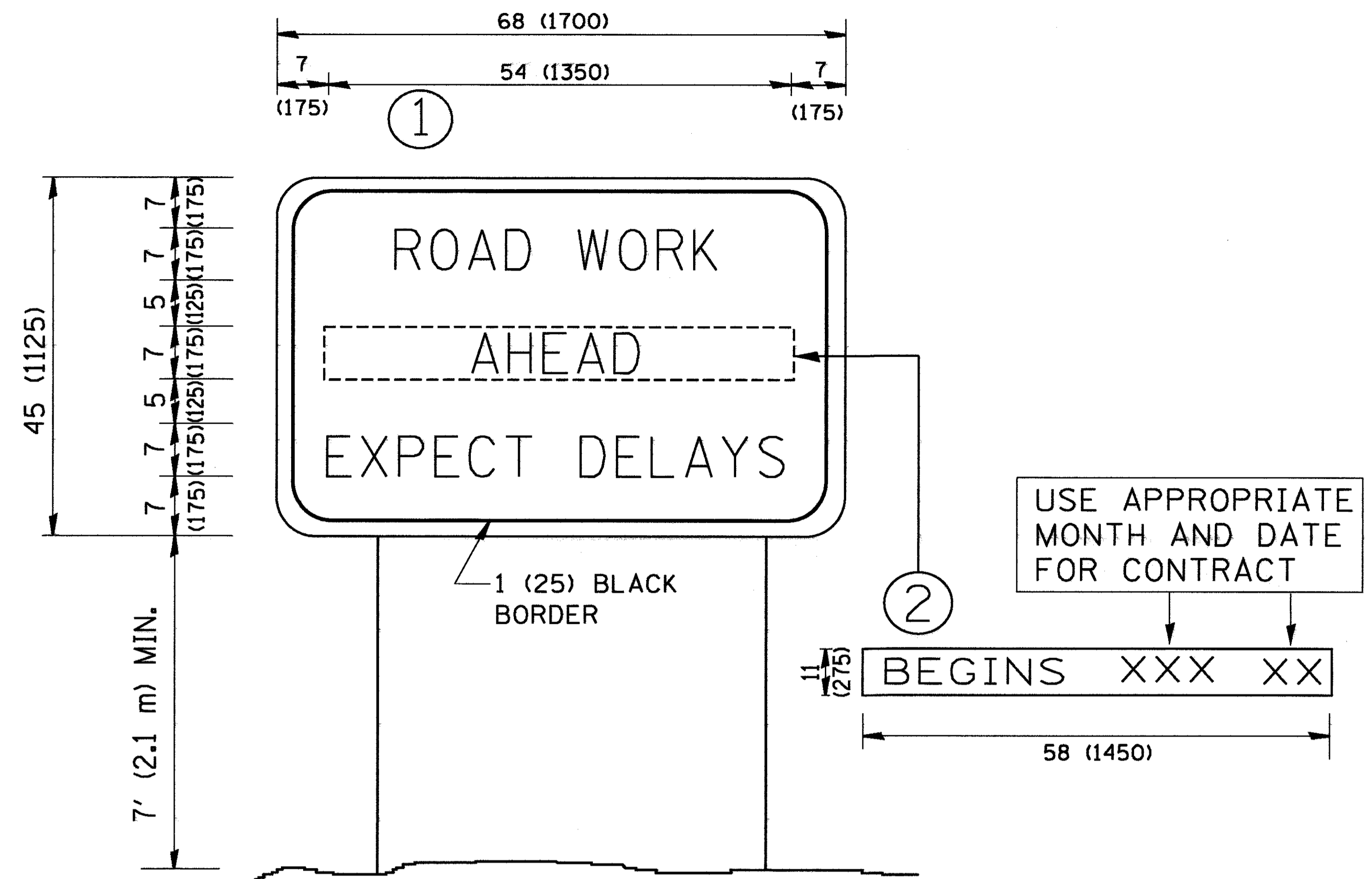
ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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






NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.






ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 194-00255	FREEPORT, IL	ROCKFORD, IL	ARTERIAL ROAD INFORMATION SIGN	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = myoung	DRAWN - A.D.S.	REVISED -			ROCHELLE, IL	SPRINGFIELD, IL		97	08-00024-01-BR	KANE	56	47
PLOT SCALE = *SCALE*	CHECKED - R.D.F.	REVISED -			MONROE, WI			CONTRACT NO. 61A77		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT
PLOT DATE = 8/9/2017	DATE - 8/9/2017	REVISED -			SCALE: *SCALES*			PROPOSED STRUCTURE @ STA.				






ROUTE MARKERS

-  FOR U.S. ROUTES
M1-40-2424
-  FOR ILLINOIS ROUTES
M1-50-2424
-  R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

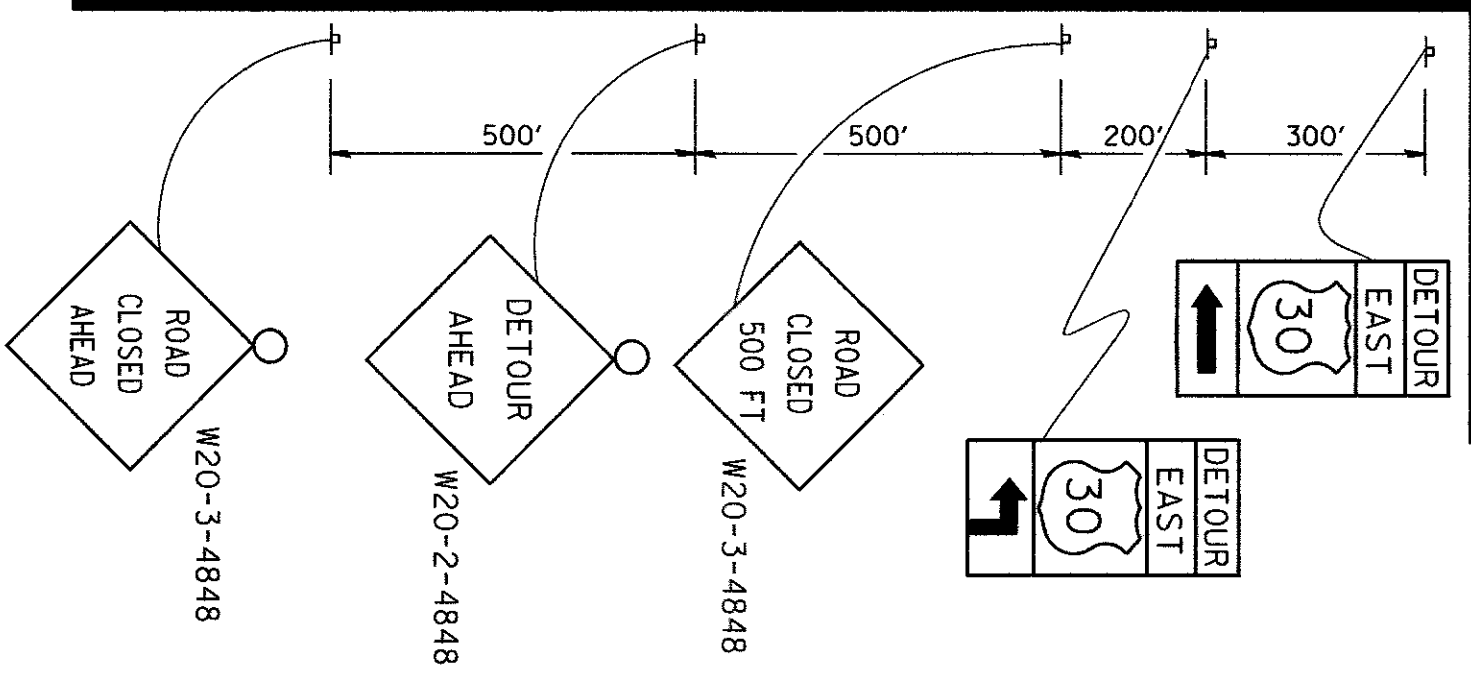
ARROWS SIGNS

-  M5-1L-2115
-  M5-1R-2115
-  M6-1-2115
-  M6-1-2115
-  M6-3-2115

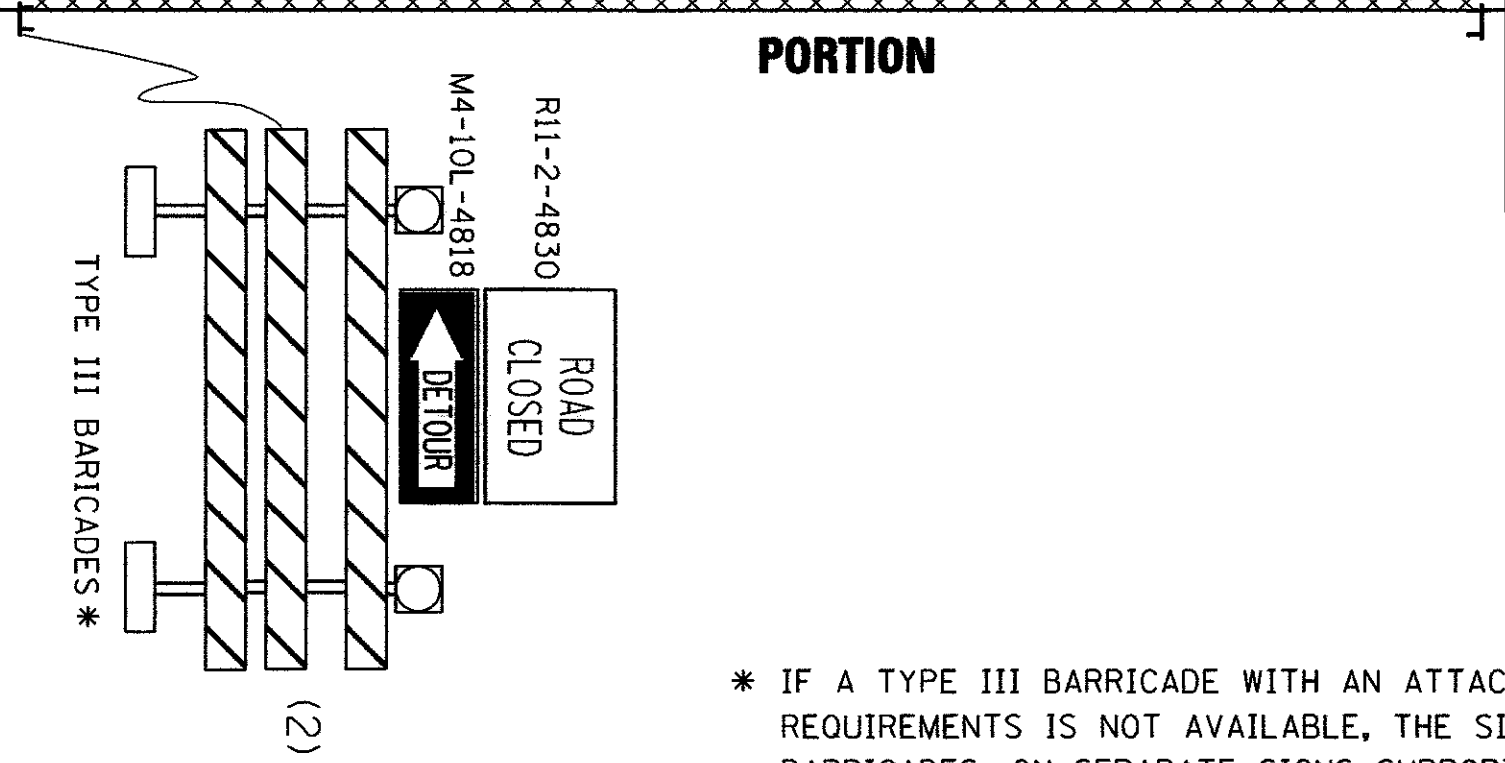
CARDINAL DIRECTION & DETOUR SIGNS

-  NORTH M3-1-2412
-  EAST M3-2-2412
-  SOUTH M3-3-2412
-  WEST M3-4-2412
-  DETOUR M4-8-2412

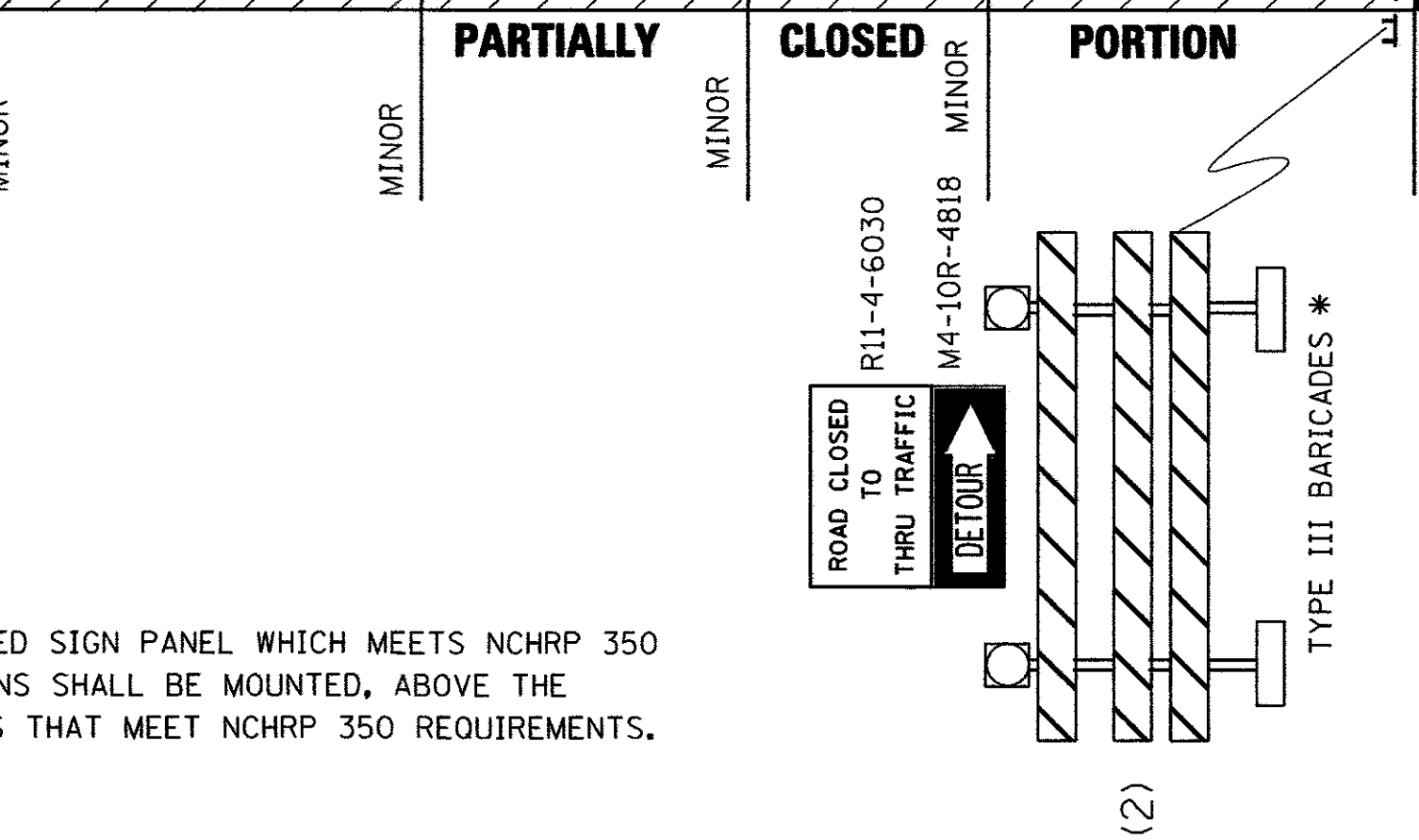
STATE ROUTE



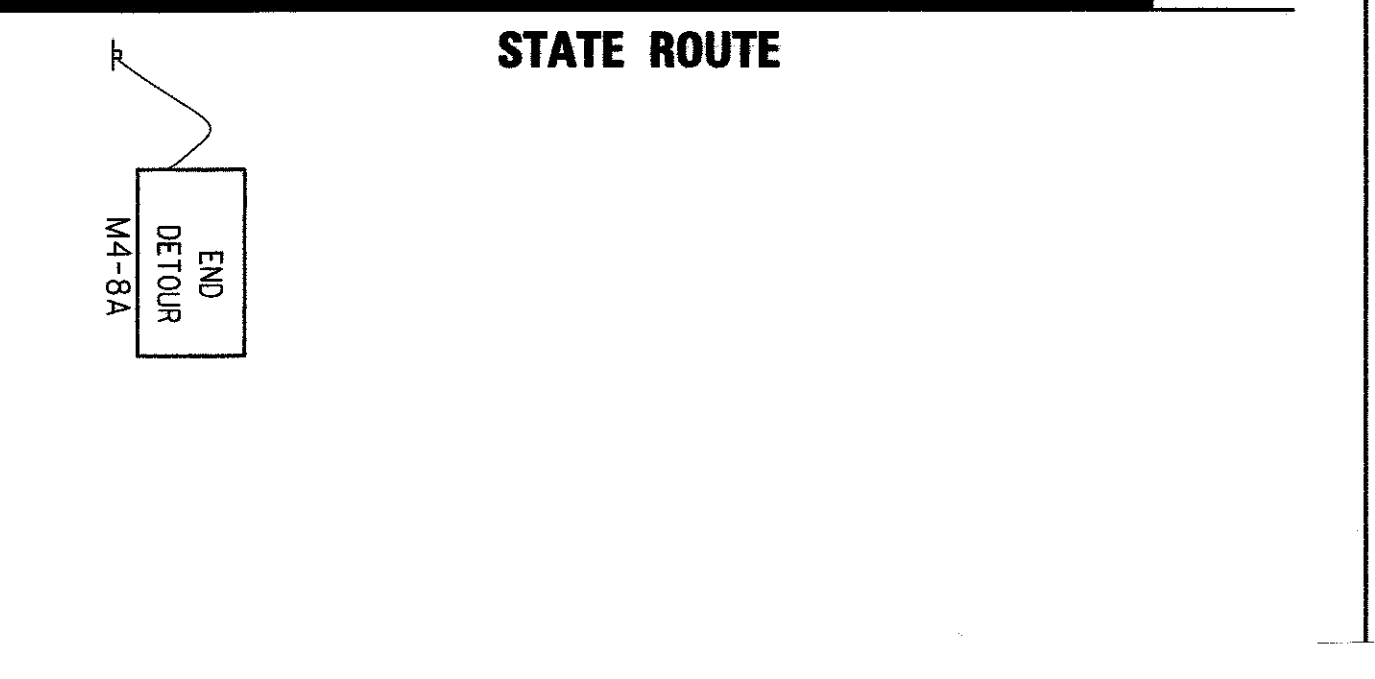
COMPLETELY CLOSED PORTION



PARTIALLY CLOSED PORTION



STATE ROUTE

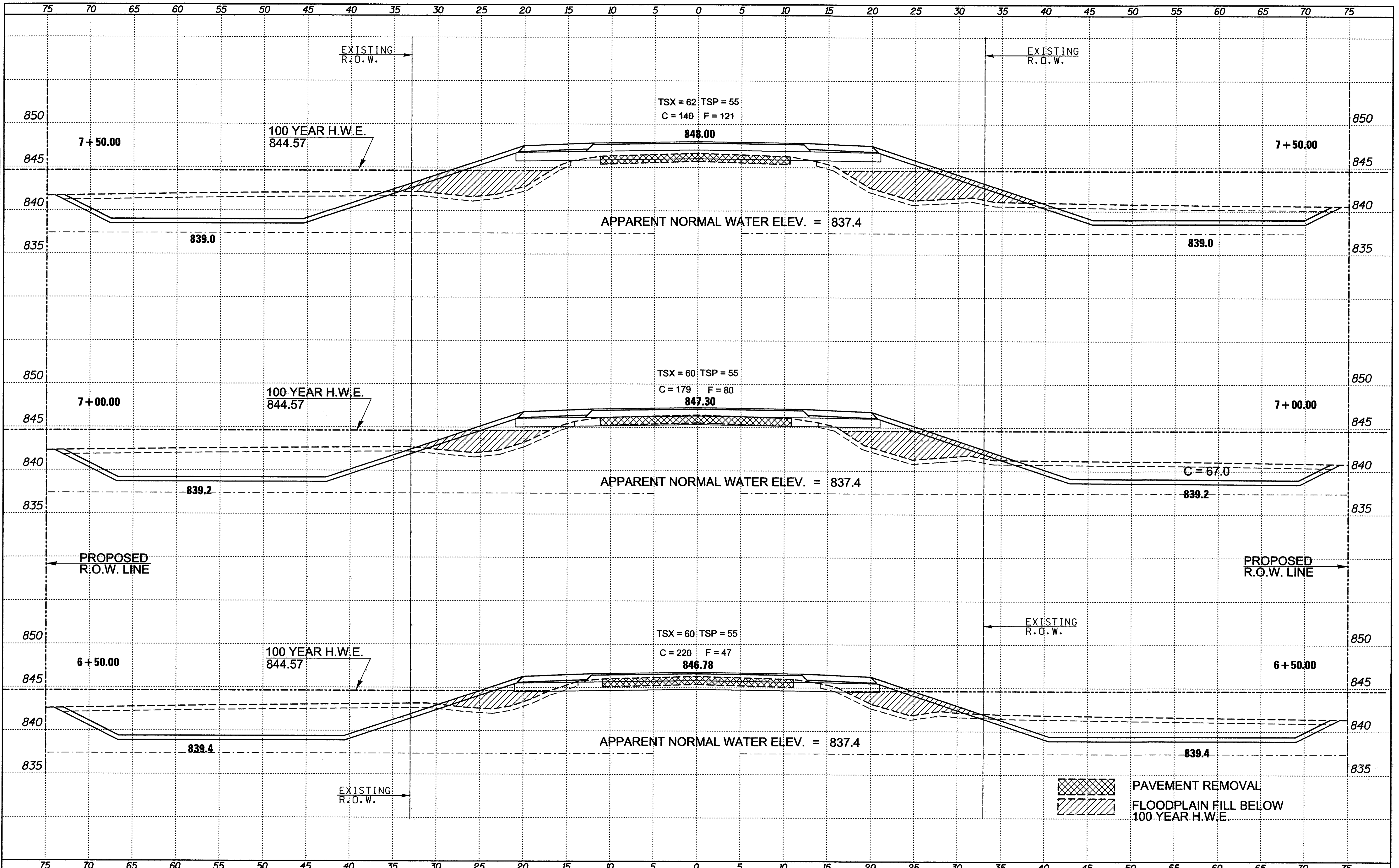


* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME = c:\pw_work\VPWIDOT\DRIVAKOSGN\d0108315\11.dgn	USER NAME = drivakoegn	DESIGNED - DRAWN -	REVISED - 10-18-02 REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			F.A.S. RTE. 97	SECTION 08-00024-01-BR TC-21	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 47A
PLOT SCALE = 49,9999' / 1 IN.	CHECKED -	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 61A77			
PLOT DATE = 9/14/2009	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

DATE	
BY	
FINAL SURVEY	
REVISIONS	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
REVISIONS	
NOTE BOOK	
NO.	



13-224-PR-RDWY.dgn
 DESIGNED - G.J.C.
 DRAWN - A.D.S.
 CHECKED - R.D.F.
 DATE - 8/8/2017

REVISED -
 REVISED -
 REVISED -
 REVISED -

2060 W. ILES AVENUE
 SPRINGFIELD, IL. 62704
 (217) 544-8477
 www.fehr-graham.com

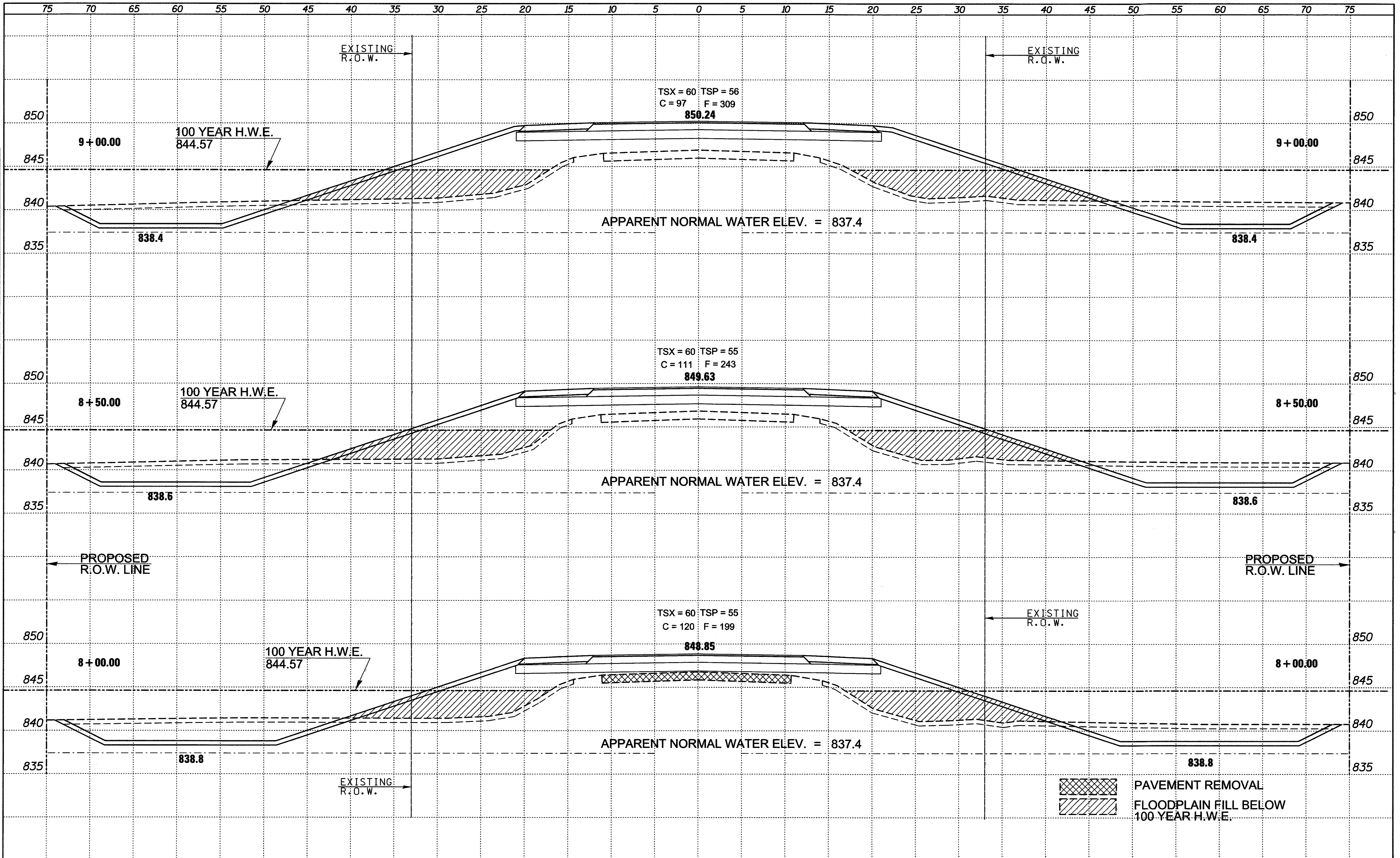
FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 FREEPORT, IL ROCKFORD, IL
 ROCHELLE, IL SPRINGFIELD, IL
 MONROE, WI


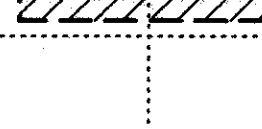
STATION CROSS SECTIONS
STA. 6+50 TO 7+50
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	08-00024-01-BR	KANE	56	49
CONTRACT NO. 61A77				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
FIELD	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
FIELD	
TEMPLATE	
AREAS CHECKED	
NO.	

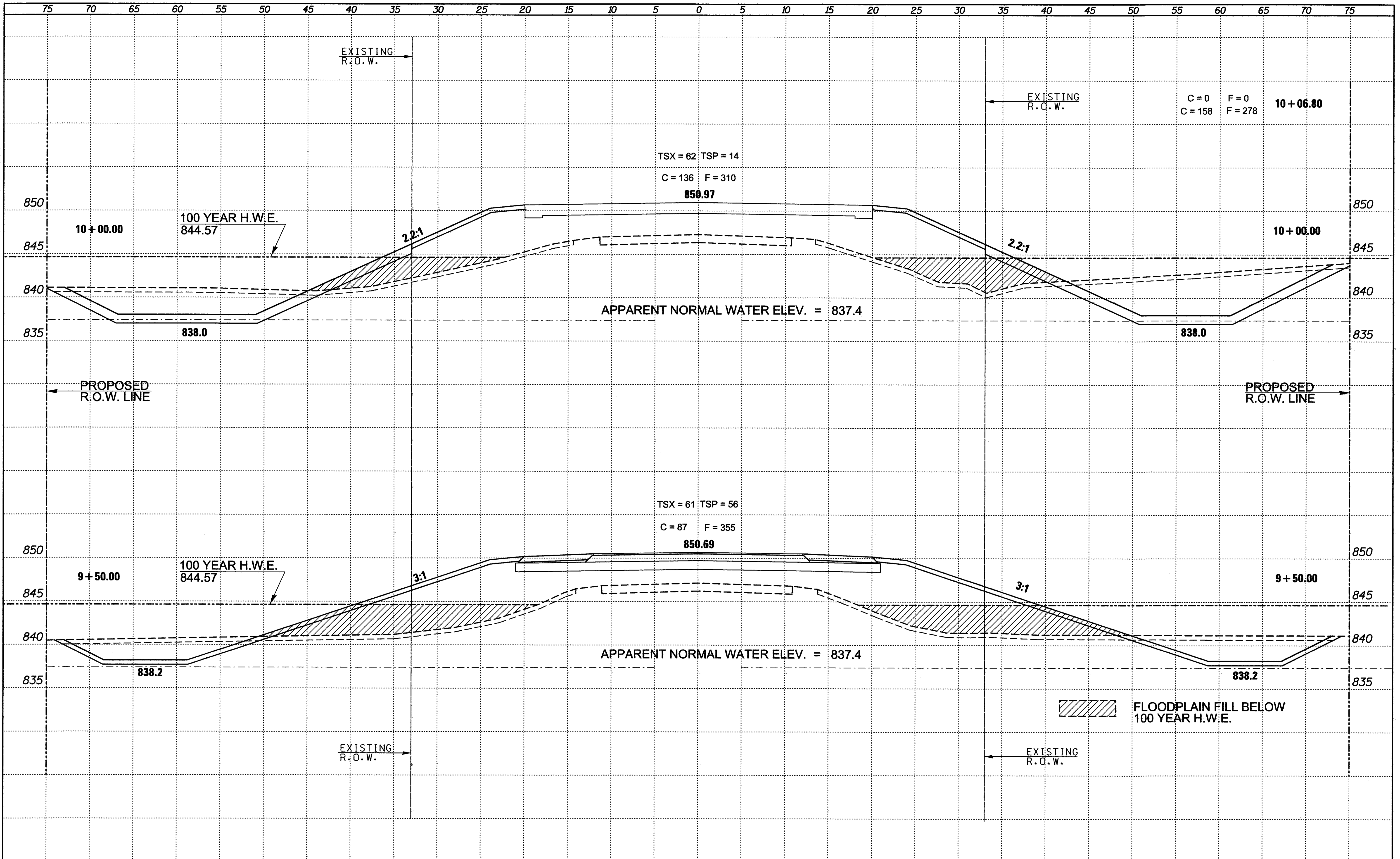


 PAVEMENT REMOVAL
 FLOODPLAIN FILL BELOW 100-YEAR H.W.E.

13-224-PR-RDWY.dgn	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 084-000255	FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI	STATION CROSS SECTIONS STA. 8+00 TO 9+00		F.A. RTE. 97	SECTION 08-00024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 50
	DRAWN - A.D.S.	REVISED -				SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 61A77	
	CHECKED - R.D.F.	REVISED -										
	DATE - 8/8/2017	REVISED -										

DATE	
BY	
FINAL SURVEY	
REVISION	
NOTE BOOK	
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AREAS CHECKED	

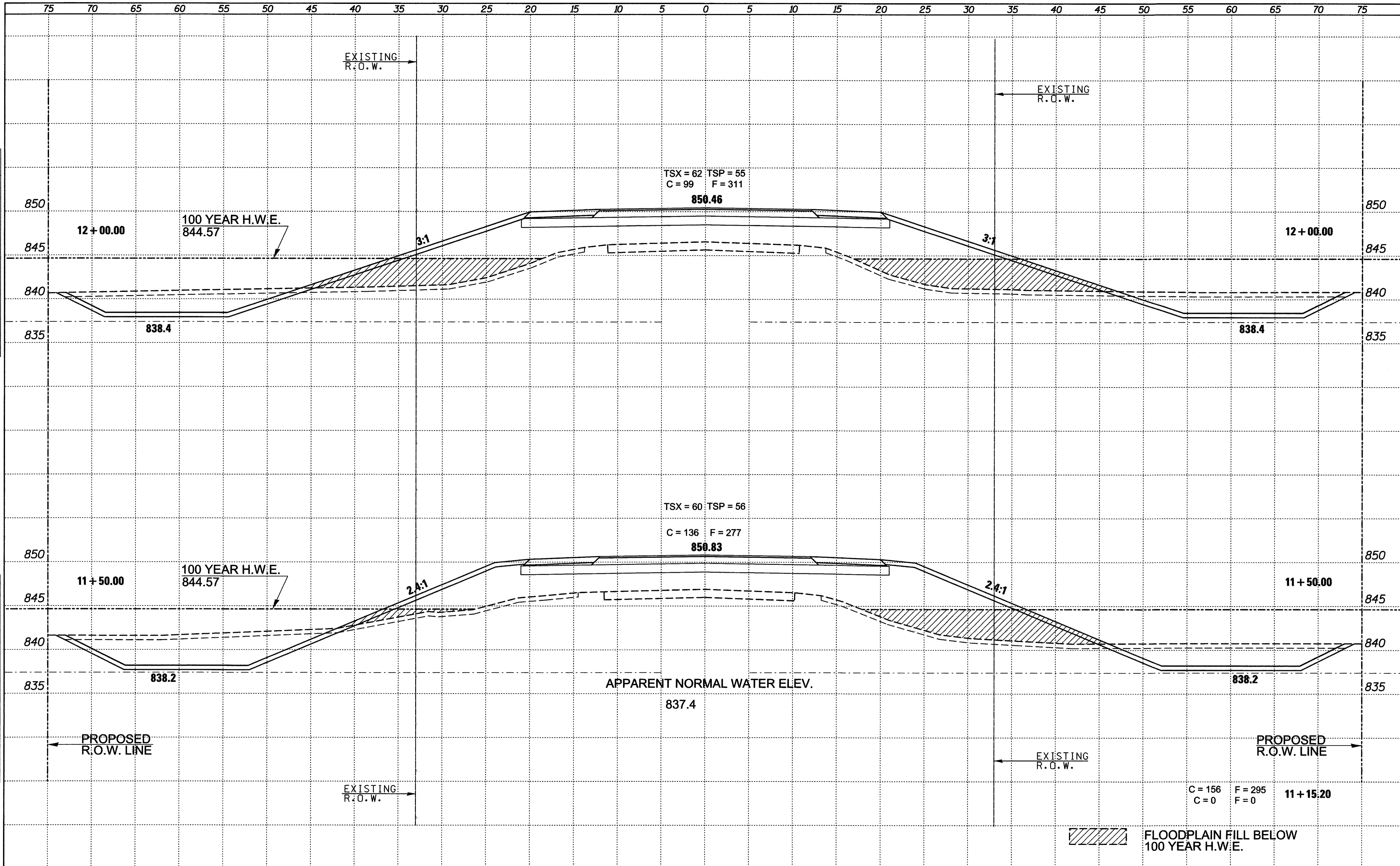
DATE	
BY	
ORIGINAL SURVEY	
REVISION	
NOTE BOOK	
NO.	
AREAS CHECKED	



13-224-PR-RDWY.dgn	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-00285	FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI	STATION CROSS SECTIONS STA. 9+50 TO 10+11	F.A. RTE. 97	SECTION 08-00024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 51	CONTRACT NO. 61A77
	DRAWN - A.D.S.	REVISED -				SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
	CHECKED - R.D.F.	REVISED -										
	DATE - 8/8/2017	REVISED -										

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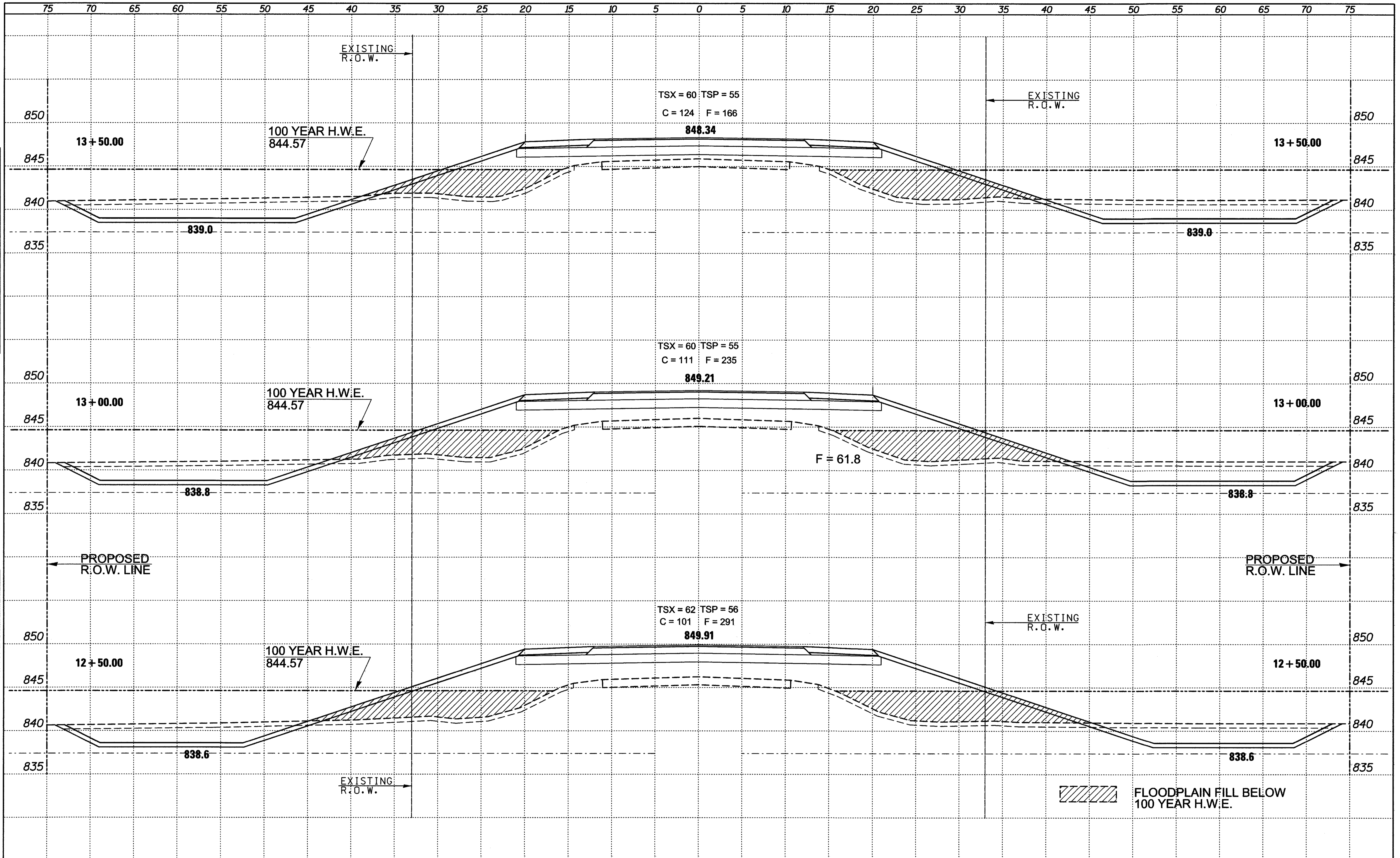
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AREAS CHECKED	
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13-224-PR-RDWY.dgn	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 194-002525	FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI	STATION CROSS SECTIONS STA. 11+15.20 TO 12+00	F.A. RTE. 97	SECTION 08-00024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 52	CONTRACT NO. 61A77
	DRAWN - A.D.S.	REVISED -				SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
	CHECKED - R.D.F.	REVISED -										
	DATE - 8/8/2017	REVISED -										

DATE	
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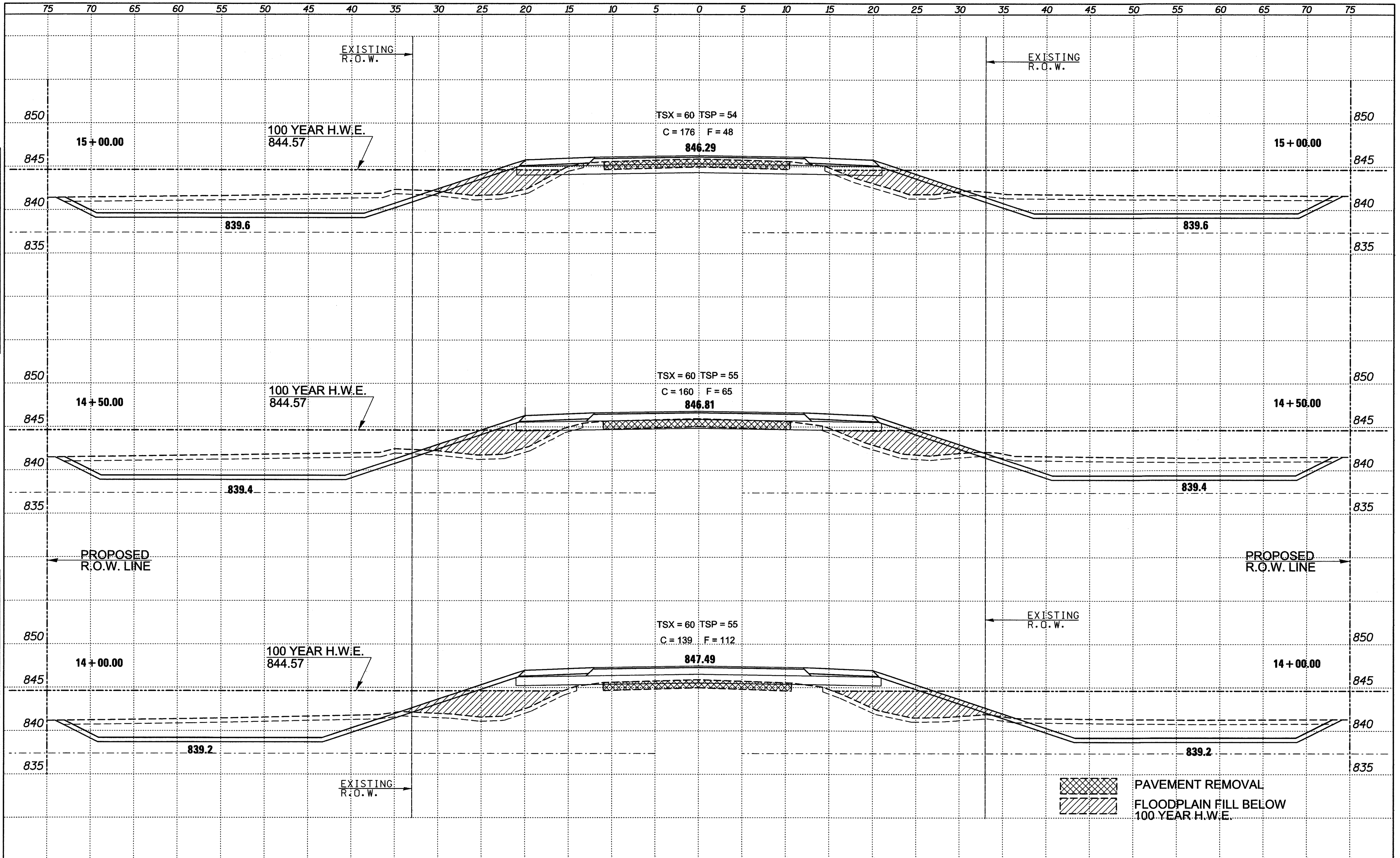
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AREAS CHECKED	
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13-224-PR-RDWY.dgn	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 104-002025	FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI	STATION CROSS SECTIONS STA. 12+50 TO 13+50		F.A. RTE. 97	SECTION 08-00024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 53
	DRAWN - A.D.S.	REVISED -				SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 61A77		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
	CHECKED - R.D.F.	REVISED -										
	DATE - 8/8/2017	REVISED -										

DATE	
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FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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DATE	
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ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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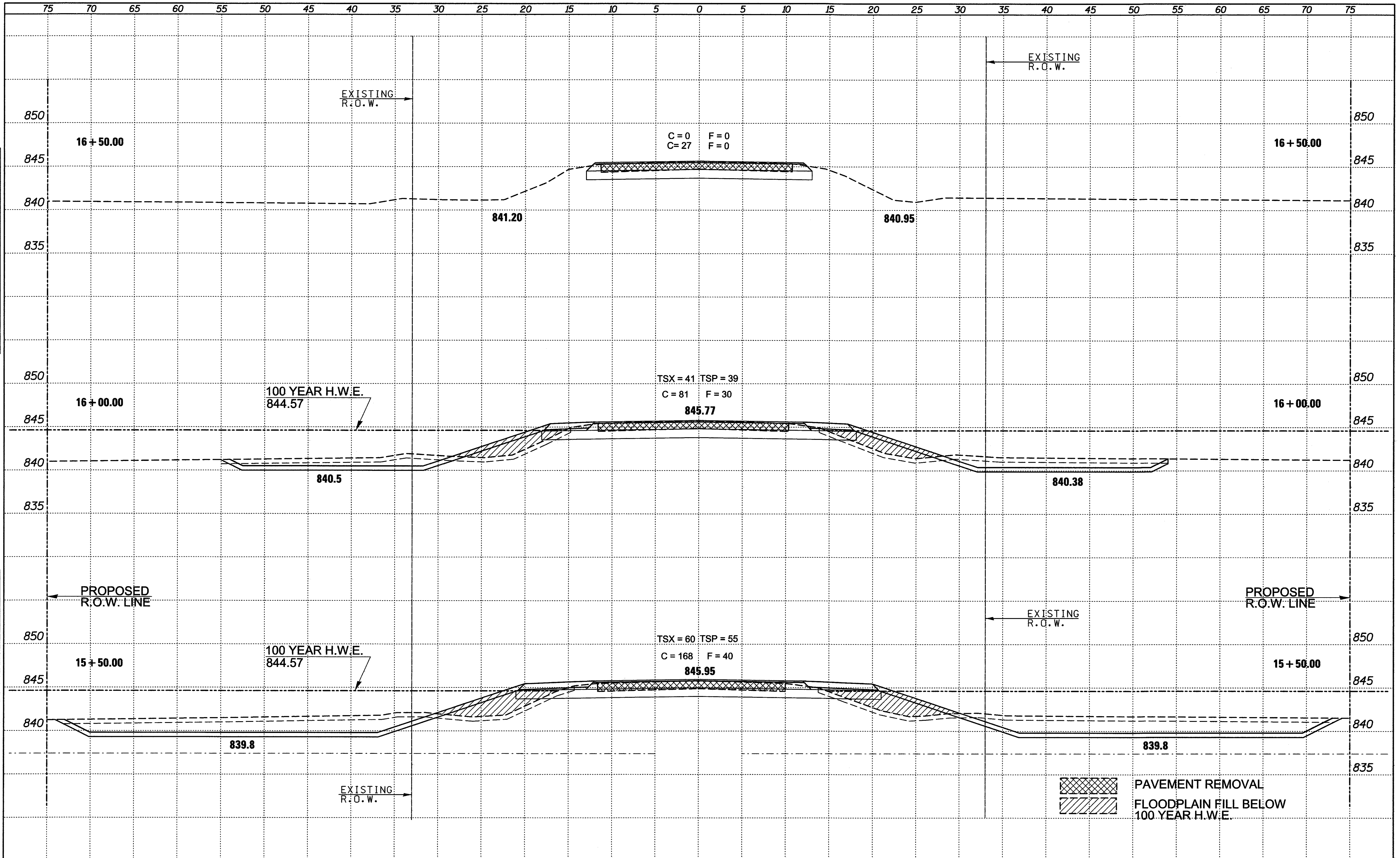


 PAVEMENT REMOVAL
 FLOODPLAIN FILL BELOW 100 YEAR H.W.E.

13-224-PR-RDWY.dgn	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-002525	FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI	STATION CROSS SECTIONS STA. 14+00 TO 15+00		F.A. RTE. 97	SECTION 08-00024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 54
	DRAWN - A.D.S.	REVISED -				SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 61A77		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
	CHECKED - R.D.F.	REVISED -										
	DATE - 8/8/2017	REVISED -										

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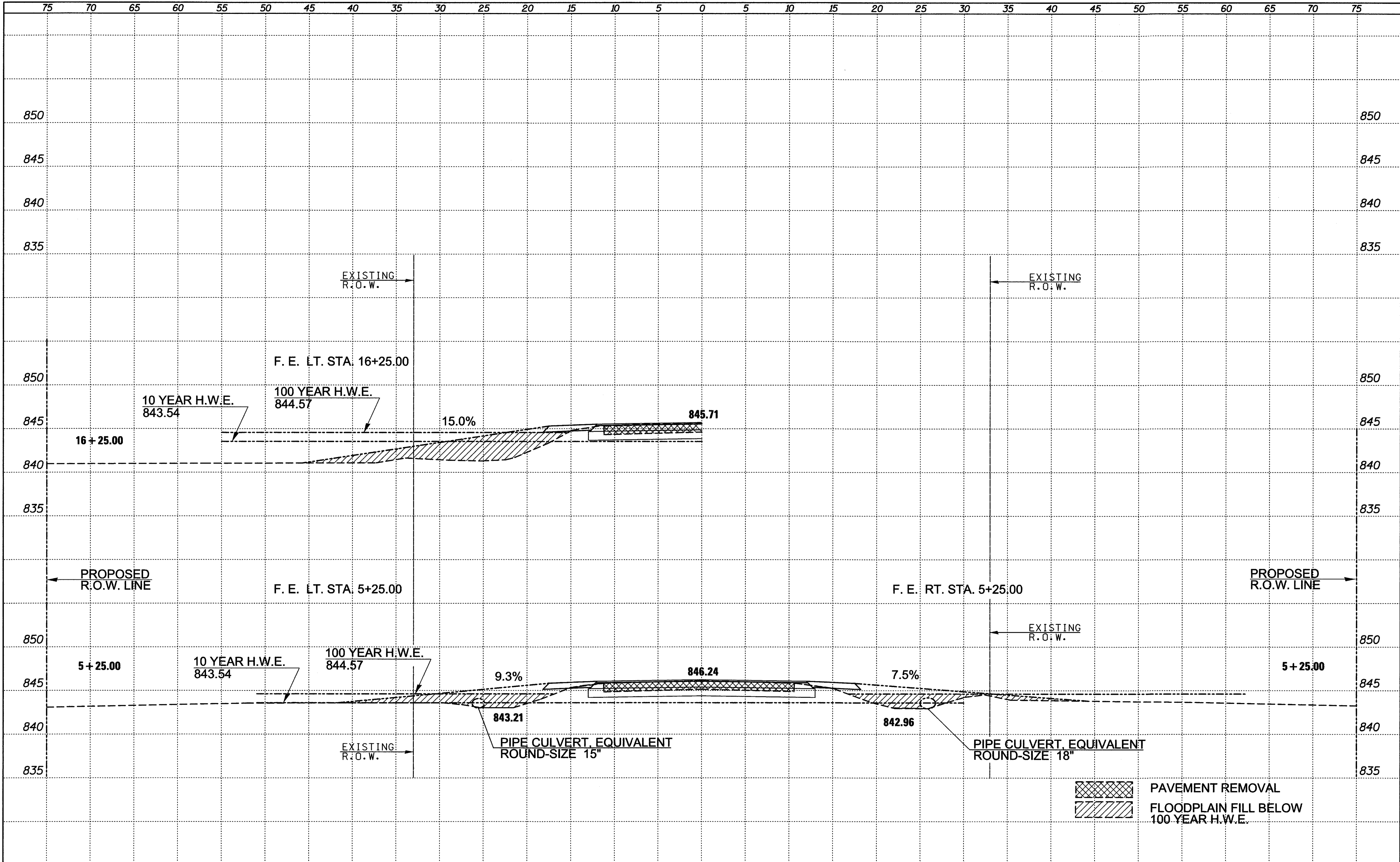
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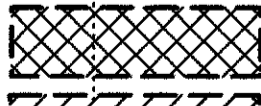



13-224-PR-RDWY.dgn	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE SPRINGFIELD, IL. 62704 (217) 544-8477 www.fehr-graham.com	FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 194-002525	FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI	STATION CROSS SECTIONS STA. 15+50 TO 16+50		F.A. RTE. 97	SECTION 08-00024-01-BR	COUNTY KANE	TOTAL SHEETS 56	SHEET NO. 55
	DRAWN - A.D.S.	REVISED -				SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 61A77			
	CHECKED - R.D.F.	REVISED -							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
	DATE - 8/8/2017	REVISED -										

DATE	
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 PAVEMENT REMOVAL
 FLOODPLAIN FILL BELOW 100 YEAR H.W.E.

13-224-PR-RDWY.dgn	DESIGNED - G.J.C.	REVISED -	2060 W. ILES AVENUE	FEHR GRAHAM	FREEPORT, IL	ROCKFORD, IL	FIELD ENTRANCES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - A.D.S.	REVISED -	SPRINGFIELD, IL. 62704		ROCHELLE, IL	SPRINGFIELD, IL		97	08-00024-01-BR	KANE	56	56	
	CHECKED - R.D.F.	REVISED -	(217) 544-8477	ENGINEERING & ENVIRONMENTAL	MONROE, WI						CONTRACT NO. 61A77		
	DATE - 8/8/2017	REVISED -	www.fehr-graham.com	ILLINOIS DESIGN FIRM NO. 184-00525			SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT