11-06-2015 LETTING ITEM 102

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	1
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

PROGRAM AND OFFICE ENGINEER: FAWAD AQUEEL, P.E. (847) 705-4021 SCHAUMBURG, IL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID PROJECT HIGHWAY BRIDGE PROGRAM

FAU ROUTE 292 (CATON FARM ROAD) OVER DUPAGE RIVER STRUCTURE REPLACEMENT SECTION 09-00425-00-BR PROJECT NO. BHM-9003(658) CITY OF JOLIET WILL COUNTY

C-91-605-10

FOR INDEX OF SHEETS SEE SHEET NO. 2

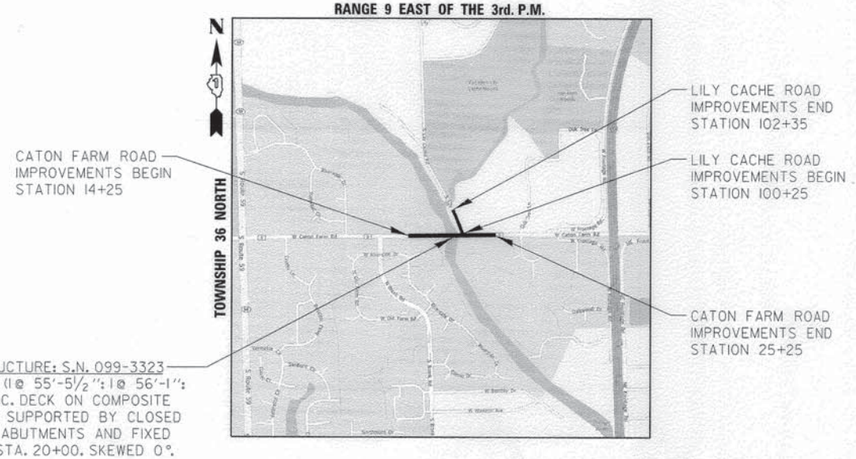
FOR STANDARDS SEE SHEET NO. 2

FOR LIST OF UTILITIES SEE SHEET NO. 2

DESIGN DESIGNATION

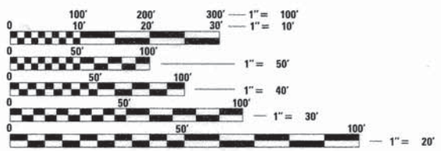
DESIGN SPEED: 40 MPH POSTED SPEED: 40 MPH				
FUNCTIONAL CLASSIFICATION	ROUTE	ADT (2015)	ADT (2040)	% TRUCKS
MINOR ARTERIAL	F.A.U. 292 (CATON FARM RD)	27,730	38,000	2

LOCATION MAP SCALE 0 1000' 2000' 4000'



PROPOSED STRUCTURE: S.N. 099-3323
A THREE SPAN (1@ 55'-5½": 1@ 56'-1": 1@ 55'-5½") R.C. DECK ON COMPOSITE STEEL I-BEAMS SUPPORTED BY CLOSED SEMI-INTEGRAL ABUTMENTS AND FIXED R.C. PIERS AT STA. 20+00. SKEWED 0°.

GROSS LENGTH = 1,100 FT. = 0.21 MILE
NET LENGTH = 1,100 FT. = 0.21 MILE



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

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

PROJECT ENGINEER – PLP
PROJECT MANAGER – BKC

CONTRACT NO. 61B98

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 8/6/ 2015
CITY OF JOLIET, DIRECTOR OF PUBLIC WORKS

PASSED 9-2-15 2015
DISTRICT ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REIVEW Sept Tomboy 2 2015
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

LICENSED PROFESSIONAL ENGINEER
LUKE G. NELSON
062-065230
9-4-15
STATE OF ILLINOIS

EXPIRES 11/30/2015

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

INDEX OF SHEETS

STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-11	BRIDGE APPROACH PAVEMENT CONNECTOR
515001-03	NAME PLATE FOR BRIDGES
602301-04	INLET - TYPE A
602401-03	MANHOLE TYPE A
604036-03	GRATE TYPE 8
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-13	TRAFFIC BARRIER TERMINAL, TYPE 6
631051-03	TRAFFIC BARRIER TERMINAL, TYPE 11
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701101-04	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701601-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701901-04	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPE A & B METAL POSTS (FOR SIGNS & MARKERS)
BD-32	DISTRICT 1 DETAIL BUTT JOINT AND HMA TAPER DETAILS
BD-34	DISTRICT 1 DETAIL DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL.
TC-11	DISTRICT 1 DETAIL TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS SNOW-PLOW RESISTANT
TC-13	DISTRICT 1 DETAIL TYPICAL PAVEMENT MARKINGS
TC-21	DISTRICT 1 DETAIL DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	DISTRICT 1 DETAIL ARTERIAL ROAD INFORMATION SIGN

GENERAL NOTES

EXISTING STRUCTURES (INCLUDING FOUNDATIONS, WALLS, CISTERNS, WELLS, OR OTHER UNDERGROUND STRUCTURES) WITHIN THE RIGHT OF WAY SHALL BE REMOVED IN ACCORDANCE WITH ARTICLE 501.04 AND 501.05 OF THE STANDARD SPECIFICATIONS, WITHOUT ADDITIONAL COMPENSATION, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS.

EXISTING STREET SIGNS AND TRAFFIC SIGNS THAT ARE WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AND RESET BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.25.

WHERE THE PROPOSED CONSTRUCTION MEETS AN EXISTING BITUMINOUS OR CONCRETE SURFACE, OR WHERE SAWING IS STATED ON THE PLANS, THE EXISTING SURFACE SHALL BE SAWED IN A NEAT, STRAIGHT LINE. COST OF SAWING IS TO BE INCLUDED IN THE UNIT BID PRICES OF THE ITEM BEING REMOVED.

NO OVERHAUL HAS BEEN COMPUTED AND NONE SHALL BE PAID FOR FROM ANY SOURCE.

BITUMINOUS MATERIALS (PRIME COAT) SHALL BE RC-70 OR SS-1 ON BITUMINOUS AND MC-30 OR P.E.P. ON AGGREGATE AND SHALL BE APPLIED AT THE RATE OF 0.025-0.25 POUNDS PER SQUARE FOOT, OR AS DIRECTED BY THE ENGINEER.

ALL PAVEMENT SHALL BE CLEANED AND "FRESH OIL" SIGNS SHALL BE PLACED AT ALL INTERSECTIONS OF THE STREETS PRIOR TO APPLYING BITUMINOUS MATERIALS (PRIME COAT).

THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.

A PROOF ROLL OF THE SUBGRADE IS REQUIRED PRIOR TO PLACING THE AGGREGATE SUB-BASE AND MUST BE OBSERVED BY A CERTIFIED TESTING COMPANY. NOTIFY THE ENGINEER PRIOR TO DOING THE PROOF ROLL.

GENERAL NOTES (CONT.)

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS, MONUMENTS, AND RIGHT OF WAY PINS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE LOCATION AND ELEVATION OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE.

THE UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS INCLUDE:

COMCAST
ATTN: MARTHA GIERAS
688 INDUSTRIAL DRIVE
ELMHURST, IL 60126
CONTACT: TONY DELVAUX
847-789-0792 OR
THOMAS MUNAR
630-600-6316

COMED
ATTN: TIM COSLET
1920 S. BRIGGS ST.
COMED REF. #H15532JOL
CONTACT: TONY COX
815-724-5010

AT&T DISTRIBUTION
LEGAL MANDATE TEAM
1000 COMMERCE DR
OAK BROOK, IL 60523
AT&T REF. #PL4105C
CONTACT: JAMES DONAHUE
630-573-5757

LEVEL 3 COMMUNICATIONS
ASSET MANAGEMENT TEAM
800-441-0223

CITY OF JOLIET
ATTN: PAUL BOMBA (WATER/SEWER)
150 W. JEFFERSON ST.
JOLIET, IL 60432
815-693-9848
ATTN: PAUL WEIHOFEN (ELECTRIC)
818 E. CASS STREET
JOLIET, IL 60432
815-405-7518

NICOR GAS
ATTN: CONSTANCE LANE
1844 FERRY RD.
NAPERVILLE, IL 60563
ENGINEERING #SC10433
CONTACT: PHILIP DOLL
EN ENGINEERING, LLC
630-967-6764

ALL CONSTRUCTION MATERIALS WITHIN THE COUNTY ROW MUST BE IDOT CERTIFIED. DOCUMENTATION OF MATERIAL CERTIFICATION SHALL BE SUBMITTED PRIOR TO ENGINEER APPROVAL. ALL CONSTRUCTION MATERIAL NEEDING INSPECTION SHALL BE DONE ACCORDING TO THE LATEST IDOT PROJECT AND PROCEDURES GUIDE.

THE CONTRACTOR SHALL PROVIDE THE ENGINEER THE FOLLOWING:

1. A LIST OF MATERIALS USED.
2. COPIES OF ALL IDOT MATERIAL CERTIFICATION ASSOCIATED WITH EACH MATERIAL USED.
3. A SIGNED COPY OF ALL MATERIAL TESTING COMPANY RESULTS ON A WEEKLY BASIS. WEEKLY FIELD REPORTS SHALL BE PROVIDED ON THE APPROPRIATE IDOT FORM.
4. A CERTIFICATION LETTER THAT CERTIFIES COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.

COMMITMENTS

1. LILY CACHE ROAD SHALL NOT BE USED FOR CONSTRUCTION TRAFFIC DURING ITS STAGE I CLOSURE.
2. ROLF ROAD SHALL NOT BE USED FOR CONSTRUCTION TRAFFIC DURING STAGE I OR STAGE II.
3. THE CITY OF JOLIET, VILLAGE OF PLAINFIELD, AND PLAINFIELD TOWNSHIP HIGHWAY DEPARTMENT SHALL ME NOTIFIED A MINIMUM OF TWO WEEKS PRIOR TO THE STAGE I DETOUR BEING UTILIZED.
4. THE EXISTING BRIDGE HAS A CURRENT LOAD POSTING LIMIT OF 18 TONS AND WILL BE RE-INVESTIGATED & RE-EVALUATED THREE MONTHS PRIOR TO START OF THE STAGE I DETOUR BEING UTILIZED. SEE STRUCTURAL SHEET 2 OF 37 FOR ADDITIONAL INFORMATION.

HORIZONTAL CONTROL

PT. #	STA.	N	E	EL.	DESCRIPTION
14	0.04' RT. OF STA. 14+00.0	1784181.74	1023044.99	596.36	MAG NAIL
150	40.7' LT. OF STA. 15+02.4	1784223.84	1023146.84	594.38	5/8" I.P. SET
151	28.3' RT. OF STA. 18+91.3	1784160.36	1023536.58	592.05	5/8" I.P. SET
152	41.2' LT. OF STA. 21+67.1	1784234.00	1023811.39	587.84	5/8" I.P. SET
153	43.6' LT. OF STA. 25+38.0	1784241.89	1024182.18	589.50	MAG NAIL
26	0.47' RT. OF STA. 26+00.0	1784198.80	1024244.83	590.22	MAG NAIL

BENCHMARKS

BM #	STA.	DESCRIPTION	ELEV.
400	32' LT OF STA 14+44	R.R. SPIKE IN 4TH P.P. WEST OF BRIDGE	597.03
401	27' LT OF STA 20+85	CHIS "□" ON NORTHEAST WINGWALL	592.12
402	36' LT. OF STA. 25+84	R.R. SPIKE IN 4TH P.P. EAST OF BRIDGE	590.25

FILE = S:\PROJECTS\2814\1304D14_Joliet\DESIGN\TRANS\1304D14_Schedules.dgn

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - L.G.N.	REVISED -	
CHECKED - G.F.S.	REVISED -	
DRAWN - L.G.N.	REVISED -	
CHECKED - G.F.S.	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STANDARDS, GENERAL NOTES, COMMITMENTS & CONTROL
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 1 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	2
	WHA# 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 0011	
				ROADWAY	BRIDGE
20200100	EARTH EXCAVATION	CU YD	1,272	1,272	
20800150	TRENCH BACKFILL	CU YD	112	112	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2,514	2,514	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	39	39	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	39	39	
25200110	SODDING, SALT TOLERANT	SQ YD	3,106	3,106	
25200200	SUPPLEMENTAL WATERING	UNIT	93	93	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	640	640	
28000305	TEMPORARY DITCH CHECKS	FOOT	60	60	
28000400	PERIMETER EROSION BARRIER	FOOT	1,314	1,314	
28000500	INLET AND PIPE PROTECTION	EACH	18	18	
30300112•	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3,201	3,201	
40600275•	BITUMINOUS MATERIALS (PRIME COAT)	POUND	7,065	7,065	
40600990	TEMPORARY RAMP	SQ YD	296	296	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	66	66	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	66	66	
40701901	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"	SQ YD	1,079	1,079	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	5	5	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	1,040	1,040	
44000100	PAVEMENT REMOVAL	SQ YD	3,523	3,523	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,398	1,398	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	149	149	
50101500•	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
50102400•	CONCRETE REMOVAL	CU YD	76		76
50200100	STRUCTURE EXCAVATION	CU YD	341.4		341.4
50300100	FLOOR DRAINS	EACH	16		16
50300225	CONCRETE STRUCTURES	CU YD	133.2		133.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	469.3		469.3
50300260	BRIDGE DECK GROOVING	SQ YD	1,273		1,273
50300300	PROTECTIVE COAT	SQ YD	1,465		1,465
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	LSUM	1		1
50500505	STUD SHEAR CONNECTORS	EACH	4656		4656
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	135,660		135,660
50800515	BAR SPLICERS	EACH	854		854
51500100	NAME PLATES	EACH	1		1
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	16		16
52100510	ANCHOR BOLTS, 3/4"	EACH	64		64
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	58	58	
59000200	EPOXY CRACK INJECTION	FOOT	131		131
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	76		76
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1	
60255500	MANHOLES TO BE ADJUSTED	EACH	4	4	

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 0011	
					ROADWAY	BRIDGE
	60260100	INLETS TO BE ADJUSTED	EACH	9	9	
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	191	191	
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,337	1,337	
+	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
+	63100085•	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
+	63200310	GUARDRAIL REMOVAL	FOOT	594	594	
	67100100	MOBILIZATION	L SUM	1	1	
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10	
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12	12	
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,064	2,064	
+	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	12,670	12,670	
+	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	10	10	
+	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	7,081	7,081	
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	750	750	
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	750	750	
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
	70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
+	78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	74.6	74.6	
+	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	11,025	11,025	
+	78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	155	155	
+	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	74	74	
+	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	640	640	
+	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	132	132	
+	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	12	12	
+	78200410•	GUARDRAIL MARKERS, TYPE A	EACH	16	16	
+	78201000•	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
+	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	130	130	
	X5500452•	STORM SEWER 12" (SPECIAL)	FOOT	17	17	
	X5510100•	STORM SEWER REMOVAL	FOOT	117	117	
	X5860110•	GRANULAR BACKFILL FOR STRUCTURES	CU YD	151.5		151.5
	X6024240•	INLETS, SPECIAL	EACH	5	5	
	X6050065•	REMOVING INLETS, SPECIAL	EACH	4	4	
	X7010216•	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
	Z0012754•	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES	SQ FT	537		537
	Z0013798•	CONSTRUCTION LAYOUT	L SUM	1	1	
	Z0026407•	TEMPORARY SHEET PILING	SQ FT	1,150		1,150
	Z0034210•	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	1,075		1,075
	Z0046304•	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	118		118
	Z0062456•	TEMPORARY PAVEMENT	SQ YD	605	605	
	Z0073002•	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	120		120
△	Z0076600•	TRAINEES	HOUR	500	500	
△	Z0076604•	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	

* SEE SPECIAL PROVISIONS + SPECIALTY ITEM △ CONSTRUCTION CODE TYPE 0042

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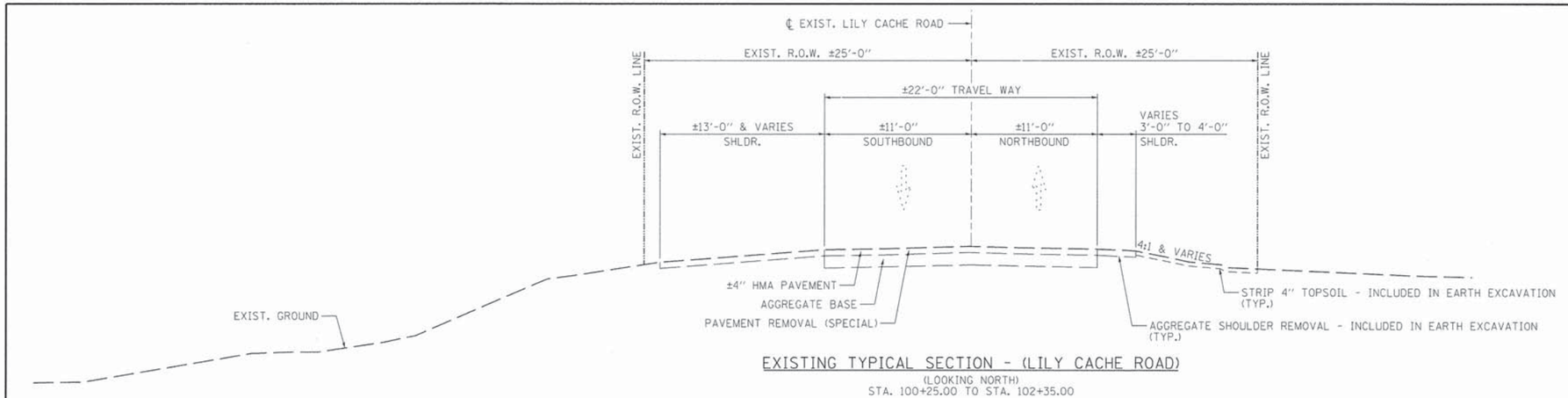
WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED	L.G.N.	REVISED
CHECKED	G.F.S.	REVISED
DRAWN	L.G.N.	REVISED
CHECKED	G.F.S.	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

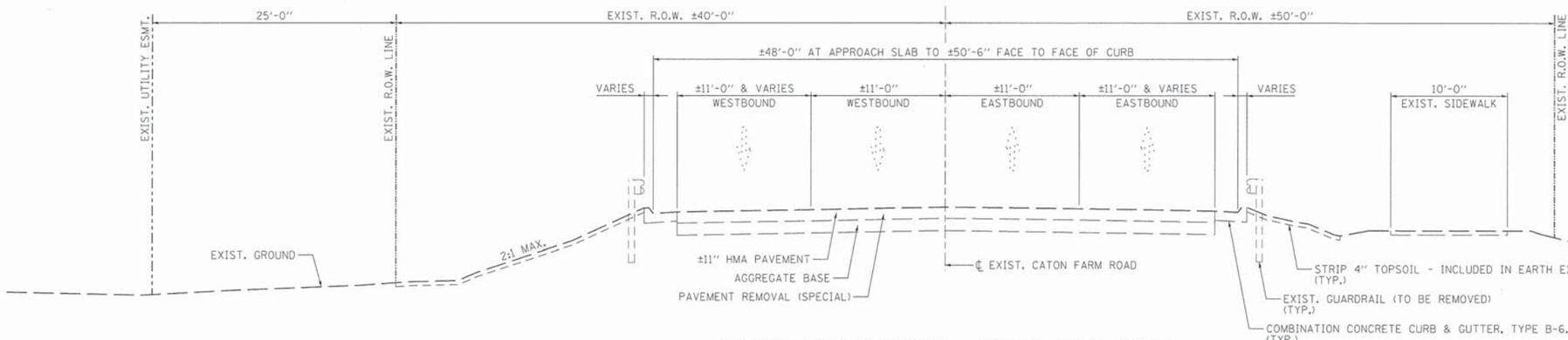
SUMMARY OF QUANTITIES
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 1 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	3
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



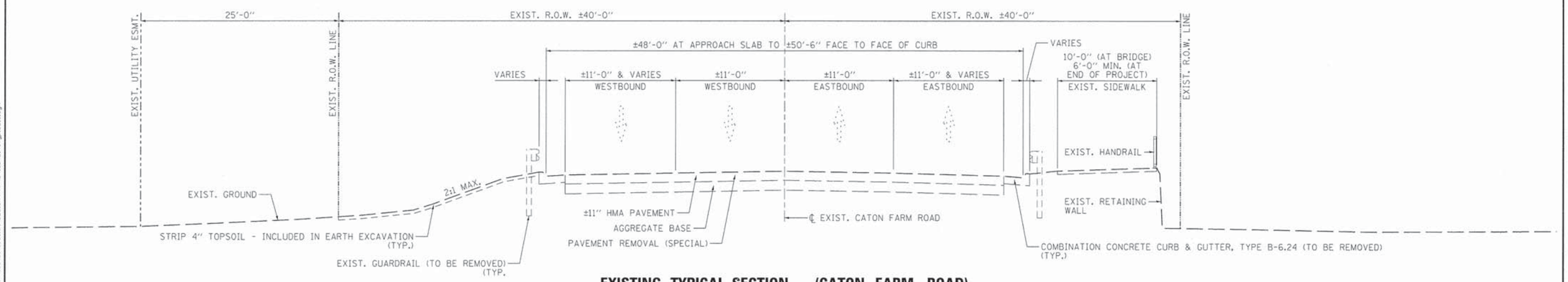
EXISTING TYPICAL SECTION - (LILY CACHE ROAD)

(LOOKING NORTH)
STA. 100+25.00 TO STA. 102+35.00



EXISTING TYPICAL SECTION – (CATON FARM ROAD)

(LOOKING EAST)
STA. 17+00.00 TO STA. 18+85.58
(BRIDGE OMITTED STA. 18+85.58 TO STA. 21+14.42)



EXISTING TYPICAL SECTION – (CATON FARM ROAD)

(LOOKING EAST)
STA. 21+14.42 TO STA. 23+25.00

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WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T. 815-284-3381 DESIGN FIRM: #184-005918

DESIGNED - L.G.N.	REVISED -	
CHECKED - G.F.S.	REVISED -	
DRAWN - B.R.L.	REVISED -	
CHECKED - G.F.S.	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 3 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	4
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

PAVEMENT STRUCTURAL DESIGN – (CATON FARM ROAD)

STRUCTURAL DESIGN TRAFFIC (S.D.T.) = YEAR 2025

CLASS I STREET — P.V. 32,164, S.U. 328, M.U. 328 — 32,820 ADT

80,000# TRUCK DESIGN

E_{RI} : (ASSUMED) 2 ksi
TF = 1.85
HMA MIX TEMP. 78° F
HMA E_{AC} = 600 ksi
HMA DESIGN STRAIN 187 microstrain

2" HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N50
9" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50
12" AGGREGATE SUBGRADE IMPROVEMENT

PAVEMENT STRUCTURAL DESIGN – (LILY CACHE ROAD)

STRUCTURAL DESIGN TRAFFIC (S.D.T.) = YEAR 2025

CLASS II STREET — P.V. 2,905, S.U. 30, M.U. 30 — 2,965 ADT

80,000# TRUCK DESIGN

E_{RI} : (ASSUMED) 2 ksi
TF = 0.15
HMA MIX TEMP. 73.5° F
HMA E_{AC} = 725 ksi
HMA DESIGN STRAIN 255 microstrain

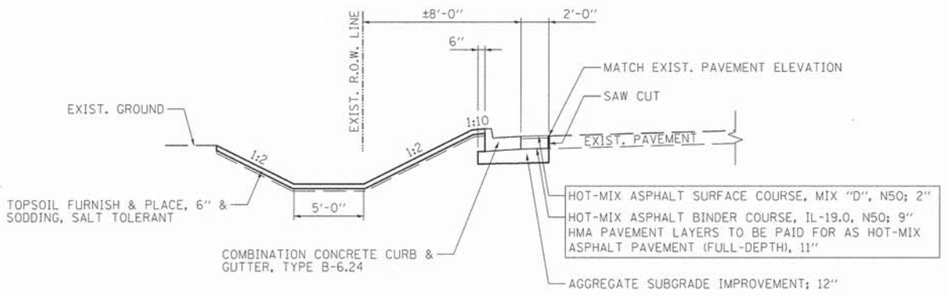
2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
2" HOT-MIX ASPHALT BINDER COURSE, IL-12.5, N50
12" AGGREGATE SUBGRADE IMPROVEMENT

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES
FULL-DEPTH PAVEMENT - CATON FARM	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5MM); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 9" (IN 3 LIFTS)	4% @ 50 GYR.
PAVEMENT CONNECTOR - CATON FARM	
BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) MIX "D", N50 (IL 9.5 MM)	4% @ 50 GYR.
TEMPORARY PAVEMENT - CATON FARM	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 4"	4% @ 50 GYR.
PAVEMENT - LILY CACHE	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5MM); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 2"	4% @ 50 GYR.
SHOULDERS - LILY CACHE	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5MM); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 4"	4% @ 50 GYR.

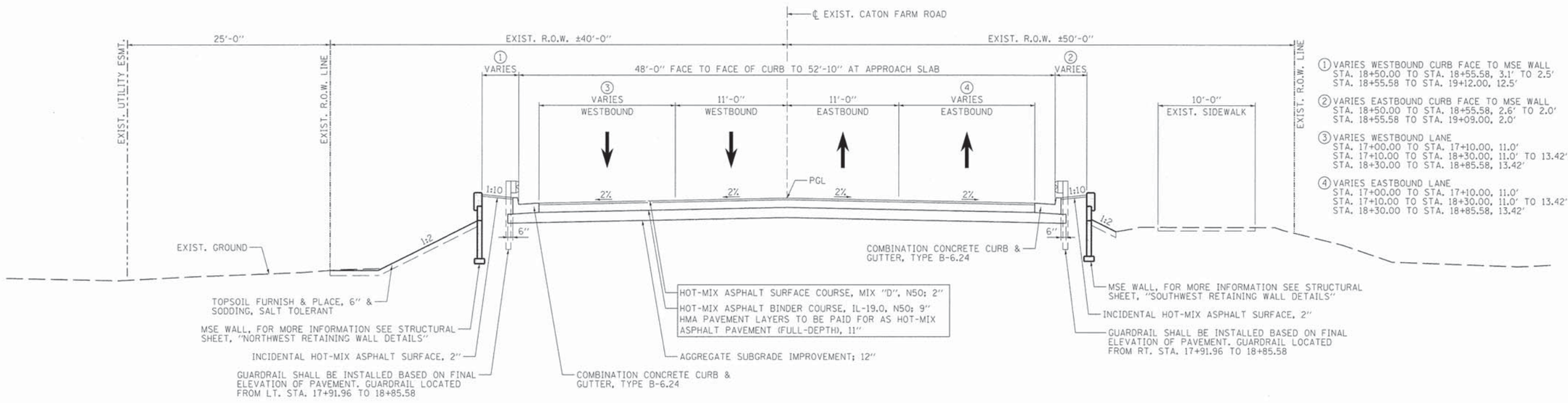
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ. YD./IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.



PROPOSED TYPICAL SECTION – (CATON FARM ROAD)

STA. 14+25.00 TO STA. 17+00.00 &
STA. 23+25.00 TO STA. 25+00.00



① VARIES WESTBOUND CURB FACE TO MSE WALL
STA. 18+50.00 TO STA. 18+55.58, 3.1' TO 2.5'
STA. 18+55.58 TO STA. 19+12.00, 12.5'

② VARIES EASTBOUND CURB FACE TO MSE WALL
STA. 18+50.00 TO STA. 18+55.58, 2.6' TO 2.0'
STA. 18+55.58 TO STA. 19+09.00, 2.0'

③ VARIES WESTBOUND LANE
STA. 17+00.00 TO STA. 17+10.00, 11.0'
STA. 17+10.00 TO STA. 18+30.00, 11.0' TO 13.42'
STA. 18+30.00 TO STA. 18+85.58, 13.42'

④ VARIES EASTBOUND LANE
STA. 17+00.00 TO STA. 17+10.00, 11.0'
STA. 17+10.00 TO STA. 18+30.00, 11.0' TO 13.42'
STA. 18+30.00 TO STA. 18+85.58, 13.42'

PROPOSED TYPICAL SECTION – (CATON FARM ROAD)

(LOOKING EAST)
STA. 17+00.00 TO STA. 18+85.58
(BRIDGE OMITTED STA. 18+85.58 TO STA. 21+14.42)

FILE = S:\PROJECTS\2014\1304D14_Joliet\DESIGN\TRANS\1304D14_Typicals.dgn

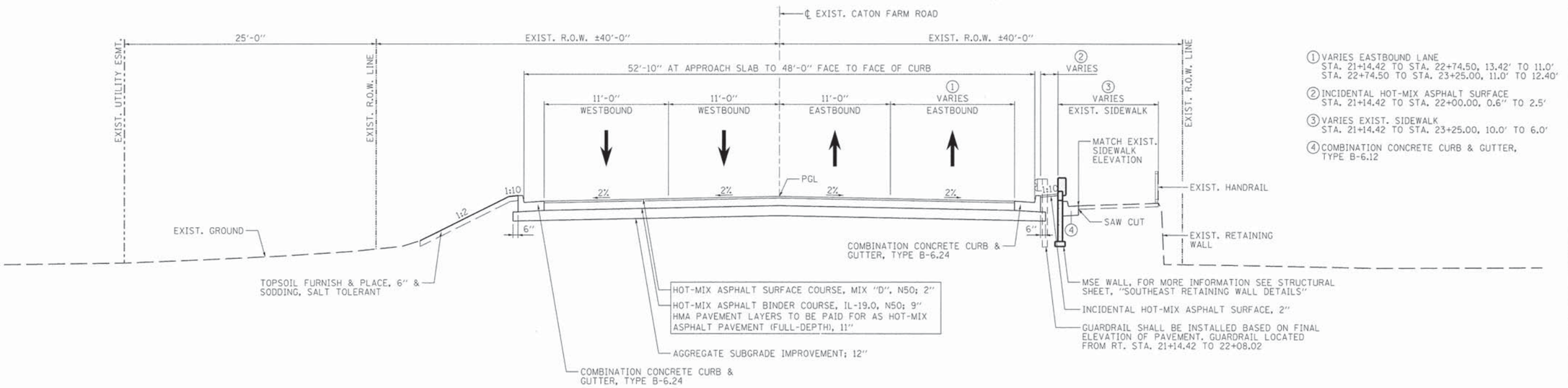
WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
509 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - L.G.N.		REVISED -
CHECKED - G.F.S.		REVISED -
DRAWN - B.R.L.		REVISED -
CHECKED - G.F.S.		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

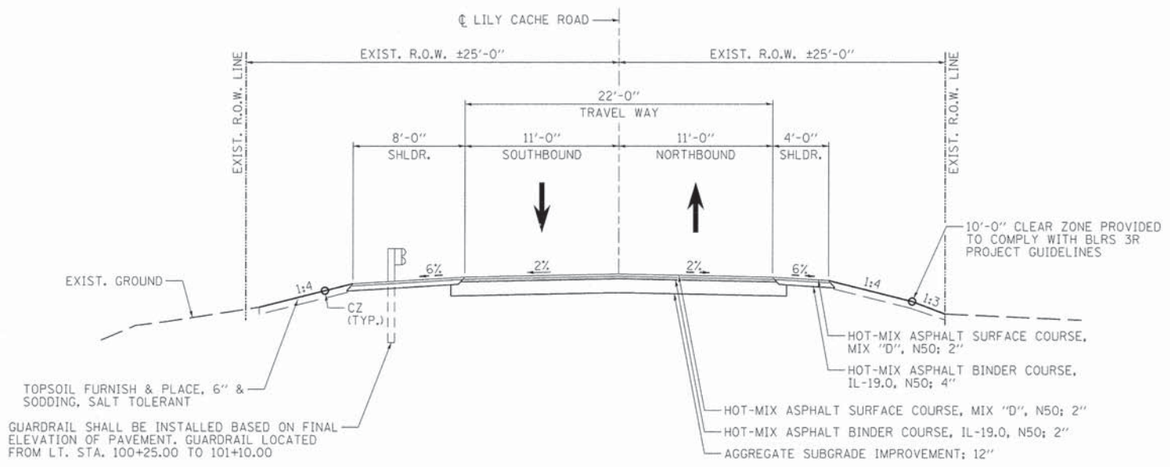
TYPICAL SECTIONS
STRUCTURE NO. 099-3323
SHEET NO. 2 OF 3 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	5
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



PROPOSED TYPICAL SECTION – (CATON FARM ROAD)

(LOOKING EAST)
STA. 21+14.42 TO STA. 23+25.00



PROPOSED TYPICAL SECTION – (LILY CACHE ROAD)

(LOOKING NORTH)
STA. 100+25.00 TO STA. 102+35.00

FILE = S:\PROJECTS\2014\1304014_Joliet\DESIGN\TRANS\1304014_Typicals.dgn

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ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED	L.G.N.	REVISED	-
CHECKED	G.F.S.	REVISED	-
DRAWN	B.R.L.	REVISED	-
CHECKED	G.F.S.	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STRUCTURE NO. 099-3323
SHEET NO. 3 OF 3 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	6
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

SCHEDULE OF QUANTITIES

EARTHWORK SCHEDULE

LOCATION	A EARTH EXCAVATION (CY)	B (0.85 X A) EXCAVATION ADJUSTED FOR SHRINKAGE 15%	C EMBANKMENT	D (B-C) EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
CATON FARM (STAGE 1)	919	781	157	624
LILY CACHE	64	54	56	-2
CATON FARM (STAGE 2)	289	246	117	129
TOTALS	1,272			751

TRENCH BACKFILL

STATION	CU. YD.	REMARKS
CATON FARM ROAD		
STAGE 1		
LT 17+37 - 17+49	2	12"
LT 19+04	13	EXISTING 24" REMOVAL
LT 10+91	22	EXISTING 12" REMOVAL
RT 100+61	35	12" LILY CACHE ROAD
STAGE 1 TOTAL	72	
STAGE 2		
RT 17+37 - 17+49	2	12"
RT 19+04	16	EXISTING 24" REMOVAL
RT 10+91	21	EXISTING 12" REMOVAL
RT 22+37 - 22+45	1	12"
STAGE 2 TOTAL	40	
PROJECT TOTAL	112	

20800450

TOPSOIL FURNISH AND PLACE, 4"

STATION	SQ. YD.	REMARKS
CATON FARM ROAD		
STAGE 1	2,094	
STAGE 2	221	
LILY CACHE LT	75	
LILY CACHE RT	124	
PROJECT TOTAL	2,514	

21101625

NITROGEN FERTILIZER NUTRIENT

STATION	POUND	REMARKS
CATON FARM ROAD		
LT 14+20 - 19+18	15	
RT 17+00 - 19+09	3	
LT 20+60 - 21+10	2	
LT 21+35 - 25+25	15	
LILY CACHE ROAD		
RT 100+60 - 102+35	2	
LT 100+74 - 102+35	2	
PROJECT TOTAL	39	

25000400

POTASSIUM FERTILIZER NUTRIENT

STATION	POUND	REMARKS
CATON FARM ROAD		
LT 14+20 - 19+18	15	
RT 17+00 - 19+09	3	
LT 20+60 - 21+10	2	
LT 21+35 - 25+25	15	
LILY CACHE ROAD		
RT 100+60 - 102+35	2	
LT 100+74 - 102+35	2	
PROJECT TOTAL	39	

25000600

SODDING, SALT TOLERANT

STATION	SQ. YD.	REMARKS
CATON FARM ROAD		
LT 14+25 - 19+26	1,173	
RT 17+00 - 19+09	223	
LT 20+60 - 21+10	168	
LT 21+35 - 25+25	1,221	
LILY CACHE ROAD		
RT 100+60 - 102+35	138	
LT 100+74 - 102+35	183	
PROJECT TOTAL	3,106	

25200110

SUPPLEMENTAL WATERING

STATION	UNIT	REMARKS
CATON FARM ROAD		
CONTINGENCY ITEM	93	10 APPLICATIONS @ 3 GAL / SQ YD
PROJECT TOTAL	93	

25200200

TEMPORARY EROSION CONTROL SEEDING

STATION	POUND	REMARKS
CATON FARM ROAD		
14+25 - 25+25	640	10 APPLICATIONS @ 100 LBS / ACRE
PROJECT TOTAL	640	

28000250

TEMPORARY DITCH CHECKS

STATION	FOOT	REMARKS
CATON FARM ROAD		
LT 22+50	12	
LT 23+00	12	
LT 23+50	12	
LT 24+00	12	
LT 24+50	12	
PROJECT TOTAL	60	

28000305

PERIMETER EROSION BARRIER

STATION	FOOT	REMARKS
CATON FARM ROAD		
LT 14+25 - 19+26	502	
LT 20+60	79	
LT 21+48 - 25+25	392	
LILY CACHE ROAD		
RT 100+50 - 102+35	182	
LT 100+74 - 102+35	159	
PROJECT TOTAL	1,314	

28000400

INLET AND PIPE PROTECTION

STATION	EACH	REMARKS
CATON FARM ROAD		
LT 15+29	1	
LT 17+26	1	
RT 17+26	1	
LT 17+36	1	
RT 17+36	1	
LT 17+50	1	
RT 17+50	1	
RT19+02	1	
LT 19+04	1	
LT 19+91	1	
RT 19+91	1	
RT 22+36	1	
LT 22+45	1	
RT 22+46	1	
LT 24+00	1	
LT 24+10	1	
LILY CACHE ROAD		
RT 100+58	1	
100+64	1	
PROJECT TOTAL	18	

28000500

AGGREGATE SUBGRADE IMPROVEMENT 12"

STATION	SQ. YD.	REMARKS
CATON FARM ROAD		
STAGE 1		
LT 17+00 - 18+86	505	
LT 21+14 - 23+25	540	
101+26 - 101+35	643	LILY CACHE ROAD
STAGE 1 TOTAL	1,688	
STAGE 2		
RT 17+00 - 18+86	588	
RT 21+14 - 23+25	659	
STAGE 2 TOTAL	1,247	
FINAL STAGE		
LT 14+25 - 17+00	153	
LT 23+25 - 25+25	113	
FINAL STAGE TOTAL	266	
PROJECT TOTAL	3,201	

30300112•

BITUMINOUS MATERIALS (PRIME COAT)

STATION	POUND	REMARKS
CATON FARM ROAD		
STAGE 1		
LT 17+00 - 17+86	442	MAINLINE .25 LB/SF 1 APP ON AGG
LT 17+86 - 18+86	556	PVT CONNECTOR .25 LB/SF 1 APP ON AGG
LT 21+14 - 22+14	500	PVT CONNECTOR .25 LB/SF 1 APP ON AGG
LT 22+14 - 23+25	553	MAINLINE .25 LB/SF 1 APP ON AGG
100+22 - 102+35	1,318	MAINLINE .25 LB/SF 1 APP ON AGG
RT 100+80 - 102+35	143	SHOULDER .25 LB/SF 1 APP ON AGG
LT 100+80 - 102+35	193	SHOULDER .25 LB/SF 1 APP ON AGG
STAGE 1 TOTAL	3,705	
STAGE 2		
RT 17+00 - 17+86	527	MAINLINE .25 LB/SF 1 APP ON AGG
RT 17+86 - 18+86	653	PVT CONNECTOR .25 LB/SF 1 APP ON AGG
RT 21+14 - 22+14	633	PVT CONNECTOR .25 LB/SF 1 APP ON AGG
RT 22+14 - 23+25	667	MAINLINE .25 LB/SF 1 APP ON AGG
STAGE 2 TOTAL	2,480	
FINAL STAGE		
LT 14+25 - 17+00	138	MAINLINE .25 LB/SF 1 APP ON AGG
LT 23+25 - 25+25	100	MAINLINE .25 LB/SF 1 APP ON AGG
LT 14+25 - 17+00	14	MAINLINE .025 LB/SF 1 APP ON BIT
17+00 - 17+86	97	MAINLINE .025 LB/SF 1 APP ON BIT
17+86 - 18+86	121	PVT CONNECTOR .025 LB/SF 2 APP ON AGG
21+174 - 22+14	113	PVT CONNECTOR .025 LB/SF 2 APP ON AGG
22+14 - 23+25	122	MAINLINE .025 LB/SF 1 APP ON BIT
LT 23+25 - 25+25	10	MAINLINE .025 LB/SF 1 APP ON BIT
100+22 - 102+35	132	MAINLINE .025 LB/SF 1 APP ON BIT
RT 100+80 - 102+35	14	SHOULDER .025 LB/SF 1 APP ON AGG
LT 100+80 - 102+35	19	SHOULDER .025 LB/SF 1 APP ON AGG
FINAL STAGE TOTAL	880	
PROJECT TOTAL	7,065	

40600275•

TEMPORARY RAMP

STATION	SQ YD	REMARKS
CATON FARM ROAD		
STAGE 1		
LT 17+00 - 17+00	37	15' X 22'
LT 18+71 - 18+86	37	15' X 22'
LT 21+14 - 21+29	37	15' X 22'
LT 23+10 - 23+25	37	15' X 22'
STAGE 1 TOTAL	148	
STAGE 2		
RT 17+00 - 17+00	37	15' X 22'
RT 18+71 - 18+86	37	15' X 22'
RT 21+14 - 21+29	37	15' X 22'
RT 23+10 - 23+25	37	15' X 22'
STAGE 2 TOTAL	148	
PROJECT TOTAL	296	

40600990

HOT-MIX ASPHALT SURFACE BINDER, IL-19.0, N50

STATION	TON	REMARKS
CATON FARM ROAD		
100+22 - 102+35	66	LILY CACHE BINDER 2"
PROJECT TOTAL	66	

40603080

SEE SHEETS 25 - 56 FOR LOCATIONS OF STRUCTURAL PAY ITEMS

WILLETT HOFMANN & ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
609 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 4 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	7
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

FILE = S:\PROJECTS\2014\1304014_Joliet\DESIGN\TRANS\1304014_Schedules.dgn

SCHEDULE OF QUANTITIES

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50

STATION	TON	REMARKS
CATON FARM ROAD		
100+22 - 102+35	66	LILY CACHE SURFACE 2"
PROJECT TOTAL	66	

40603335

HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"

STATION	SQ YD	REMARKS
CATON FARM ROAD		
STAGE 1		
LT 17+00 - 17+86	197	
LT 22+14 - 23+25	246	
STAGE 1 TOTAL	443	
STAGE 2		
RT 17+00 - 17+86	234	
RT 22+14 - 23+25	297	
STAGE 2 TOTAL	531	
FINAL STAGE		
LT 14+25 - 17+00	61	
LT 23+25 - 25+25	44	
FINAL STAGE TOTAL	105	
PROJECT TOTAL	1,079	

40701901

INCIDENTAL HOT-MIX ASPHALT SURFACING

STATION	TON	REMARKS
CATON FARM ROAD		
LT 18+50 - 19+12	2	2" STAGE 1
RT 18+50 - 19+14	2	2" STAGE 2
RT 21+14 - 22+00	1	2" STAGE 2
PROJECT TOTAL	5	

40800050

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

STATION	SQ YD	REMARKS
CATON FARM ROAD		
STAGE 1		
LT 17+86 - 18+86	247	
LT 21+14 - 22+14	222	
STAGE 1 TOTAL	469	
STAGE 2		
RT 17+86 - 18+86	290	
RT 21+14 - 22+14	281	
STAGE 2 TOTAL	571	
PROJECT TOTAL	1,040	

42001430

PAVEMENT REMOVAL

STATION	SQ YD	REMARKS
CATON FARM ROAD		
STAGE 1		
LT 14+25 - 17+00	61	± 11" ROADWAY PAVEMENT
LT 17+00 - 19+16	477	± 11" ROADWAY PAVEMENT
LT 20+83 - 19+16	532	± 11" ROADWAY PAVEMENT
LT 23+25 - 25+25	44	± 11" ROADWAY PAVEMENT
23+25 - 25+25	575	± 4" ROADWAY PAVEMENT
STAGE 1 TOTAL	1,689	
STAGE 2		
RT 17+00 - 19+16	578	± 11" ROADWAY PAVEMENT
RT 20+83 - 19+16	651	± 11" ROADWAY PAVEMENT
STAGE 2 TOTAL	1,229	
FINAL STAGE		
LT 14+25 - 18+85	307	4" STAGE 2 TEMPORARY PAVEMENT
LT 21+00	23	4" STAGE 2 TEMPORARY PAVEMENT
LT 21+45	44	4" STAGE 2 TEMPORARY PAVEMENT
LT 21+78 - 25+25	231	4" STAGE 2 TEMPORARY PAVEMENT
FINAL STAGE TOTAL	605	
PROJECT TOTAL	3,523	

44000100

COMBINATION CURB AND GUTTER REMOVAL

STATION	FOOT	REMARKS
CATON FARM ROAD		
STAGE 1		
LT 14+25 - 19+16	491	
LT 20+84 - 21+10	47	LILY CACHE RADIUS
LT 21+39 - 21+80	58	LILY CACHE RADIUS
LT 21+80 - 25+25	345	
STAGE 1 TOTAL	941	
STAGE 2		
RT 17+00 - 19+16	216	
RT 20+84 - 23+25	241	
STAGE 2 TOTAL	457	
PROJECT TOTAL	1,398	

44000500

HOT-MIX ASPHALT SHOULDERS, 6"

STATION	SQ. YD.	REMARKS
CATON FARM ROAD		
RT 100+80 - 102+35	63	LILY CACHE
LT 100+80 - 102+35	86	LILY CACHE
PROJECT TOTAL	149	

48203021

STORM SEWER, CLASS A, TYPE 1 12"

STATION	FOOT	REMARKS
CATON FARM ROAD		
STAGE 1		
LT 17+37 - 17+49	12	
RT TO LT 100+61 - 17+49	26	LILY CACHE
STAGE 1 TOTAL	38	
STAGE 2		
RT 17+37 - 17+49	12	
RT 22+37 - 22+45	8	
STAGE 2 TOTAL	20	
PROJECT TOTAL	58	

550A0050

INLETS, TYPE A, TYPE 8 GRATE

STATION	EACH	REMARKS
CATON FARM ROAD		
42.28' LT 22+00	1	STAGE 1
PROJECT TOTAL	1	

60236200

MANHOLES TO BE ADJUSTED

STATION	EACH	REMARKS
CATON FARM ROAD		
STAGE 1		
RT 18+99	1	
RT 20+97	1	
STAGE 1 TOTAL	2	
FINAL STAGE		
RT 17+33	1	
RT 22+48	1	
FINAL STAGE TOTAL	2	
PROJECT TOTAL	4	

60255500

INLETS TO BE ADJUSTED

STATION	EACH	REMARKS
CATON FARM ROAD		
STAGE 1		
RT 17+26	1	
RT 17+36	1	
RT 22+46	1	
STAGE 1 TOTAL	3	
FINAL STAGE		
LT 15+79	1	
LT 17+26	1	
LT 17+36	1	
LT 22+45	1	
LT 24+00	1	
LT 24+10	1	
FINAL STAGE TOTAL	6	
PROJECT TOTAL	9	

60260100

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

STATION	FOOT	REMARKS
CATON FARM ROAD		
RT 21+09 - 23+00	191	
PROJECT TOTAL	191	

60603800

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

STATION	FOOT	REMARKS
CATON FARM ROAD		
STAGE 2		
RT 17+00 - 18+86	186	
RT 21+14 - 23+25	211	
STAGE 2 TOTAL	397	
FINAL STAGE		
LT 14+25 - 18+86	461	
LT 21+10	53	LILY CACHE W. RADIUS
LT 21+50	85	LILY CACHE E. RADIUS
LT 21+84 - 25+25	341	
FINAL STAGE TOTAL	940	
PROJECT TOTAL	1,337	

60605000

TRAFFIC BARRIER TERMINAL, TYPE 6

STATION	EACH	REMARKS
CATON FARM ROAD		
LT 20+82 - 21+09	1	STAGE 1
RT 18+42 - 18+88	1	STAGE 2
RT 21+12 - 21+58	1	STAGE 2
LT 18+42 - 18+88	1	FINAL STAGE
PROJECT TOTAL	4	

63100085

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

STATION	EACH	REMARKS
CATON FARM ROAD		
LT 100+57 - 101+10	1	STAGE 1 LILY CACHE
RT 17+91 - 18+42	1	STAGE 2
RT 21+58 - 22+10	1	STAGE 2
LT 17+91 - 18+42	1	FINAL STAGE
PROJECT TOTAL	4	

63100167

GUARDRAIL REMOVAL

STATION	FOOT	REMARKS
CATON FARM ROAD		
STAGE 1		
LT 17+53 - 19+17	164	
LT 20+83 - 21+07	51	
STAGE 1 TOTAL	215	
STAGE 2		
LT 17+02 - 19+16	214	
LT 20+82 - 22+47	165	
STAGE 2 TOTAL	379	
PROJECT TOTAL	594	

63200310

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STRUCTURE NO. 099-3323
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SCHEDULE OF QUANTITIES

SHORT TERM PAVEMENT MARKINGS

STATION	FOOT	REMARKS
CATON FARM ROAD		
FINAL STAGE		
RT 3+50 -29+25	258	4" STRIPES 4' @ 40' CNTS (YLW BINDER)
LT 3+50 -29+25	258	4" STRIPES 4' @ 40' CNTS (YLW BINDER)
RT 3+50 - 29+25	258	4" STRIPES 4' @ 40' CNTS (WHT BINDER)
RT 3+50 - 29+25	258	4" STRIPES 4' @ 40' CNTS (WHT BINDER)
RT 3+50 - 29+25	258	4" STRIPES 4' @ 40' CNTS (YLW SURFACE)
LT 3+50 -29+25	258	4" STRIPES 4' @ 40' CNTS (YLW SURFACE)
RT 3+50 - 29+25	258	4" STRIPES 4' @ 40' CNTS (WHT SURFACE)
RT 3+50 - 29+26	258	4" STRIPES 4' @ 40' CNTS (WHT SURFACE)
PROJECT TOTAL	2,064	

70300100

TEMPORARY PAVEMENT MARKING - LINE 4"

STATION	FOOT	REMARKS
CATON FARM ROAD		
STAGE 1		
RT 10+00 - 16+10	610	SOLID YELLOW TAPER
RT 13+35 - 16+10	275	SOLID YELLOW TAPER
LT TO RT 14+10 - 16+10	200	SOLID WHITE TAPER
RT 16+10 - 23+50	1,400	SOLID DOUBLE YELLOW CENTERLINE
RT 16+10 - 23+50	700	SOLID WHITE EDGE LINE
RT 16+10 - 25+25	915	SOLID WHITE EDGE LINE
RT 23+50 - 26+00	250	SOLID YELLOW CENTERLINE
RT 23+50 - 25+25	175	SOLID YELLOW CENTERLINE
RT 25+25 - 28+00	275	SOLID YELLOW TAPER
RT 26+00 - 28+00	200	SOLID YELLOW TAPER
RT TO LT 25+25 - 28+00	275	SOLID WHITE TAPER
LT 28+00 - 29+40	140	SOLID WHITE EDGE LINE
LT 29+90 - 34+20	430	SOLID WHITE TAPER
STAGE 1 TOTAL	5,845	
STAGE 2		
RT 3+50 - 9+00	550	SOLID WHITE EDGE TAPER
RT 9+30	55	SOLID WHITE RADIUS LINE
RT 9+85	50	SOLID WHITE RADIUS LINE
RT 10+10 - 11+00	90	SOLID WHITE EDGE LINE
RT TO LT 11+00 - 16+00	500	SOLID YELLOW TAPER
RT TO LT 11+00 - 16+00	500	SOLID WHITE EDGE TAPER
LT 12+00 - 14+75	275	SOLID YELLOW TAPER
LT 14+25 - 21+00	675	SOLID WHITE EDGE LINE
LT 16+00 - 24+15	1,630	SOLID DOUBLE YELLOW CENTERLINE
LT 16+00 - 24+15	815	SOLID WHITE EDGE LINE
LT 21+15	55	SOLID WHITE RADIUS LINE
LT 21+50	75	SOLID WHITE RADIUS LINE
LT 21+70 - 25+25	355	SOLID WHITE EDGE LINE
LT TO RT 24+15 - 29+15	500	SOLID YELLOW TAPER
LT TO RT 24+15 - 29+15	500	SOLID YELLOW TAPER
LT TO RT 24+15 - 26+15	200	SOLID WHITE EDGE TAPER
STAGE 2 TOTAL	6,825	
PROJECT TOTAL	12,670	

70300220

TEMPORARY PAVEMENT MARKING - LINE 12"

STATION	FOOT	REMARKS
CATON FARM ROAD		
STAGE 2		
LT 21+25	10	LILY CACHE STOP BAR
PROJECT TOTAL	10	

70300280

WORK ZONE PAVEMENT MARKING REMOVAL

STATION	SQ. FT.	REMARKS
CATON FARM ROAD		
PRE-STAGE 1		
10+05 - 28+00	1,197	EXISTING DOUBLE CENTER LINE
RT 10+05 - 28+00	150	EXISTING SKIP DASH LINES
RT 10+05 - 28+00	150	EXISTING SKIP DASH LINES
23+25 -28+00	317	EXISTING DOUBLE CENTER LINE
LT 23+25 - 34+20	91	EXISTING SKIP DASH LINES
LT 23+25 - 28+00	85	EXISTING MEDIAN LINES
PRE-STAGE 1 TOTAL	1,990	
STAGE 2		
11+50 - 17+00	367	EXISTING DOUBLE CENTER LINE
11+50 - 14+50	45	EXISTING MEDIAN LINES
LT 12+00 - 17+00	42	EXISTING SKIP DASH LINES
23+25 - 29+25	400	EXISTING DOUBLE CENTER LINE
LT 23+25 - 29+25	50	EXISTING SKIP DASH LINES
10+00 - 34+20	1,948	STAGE 1 TEMPORARY 4"
STAGE 2 TOTAL	2,852	
FINAL STAGE		
3+50 -25+25	1,875	STAGE 2 TEMPORARY 24"
LT 21+25	20	STAGE 2 TEMPORARY 4"
3+50 - 29+25	344	SURFACE SHORT TERM 4"
FINAL STAGE TOTAL	2,239	
PROJECT TOTAL	7,081	

70301000

TEMPORARY CONCRETE BARRIER

STATION	FOOT	REMARKS
CATON FARM ROAD		
LT 16+37.5 - 23+87.5	750	STAGE 1
PROJECT TOTAL	750	

70400100

RELOCATE TEMPORARY CONCRETE BARRIER

STATION	FOOT	REMARKS
CATON FARM ROAD		
LT 16+37.5 - 23+87.5	750	STAGE 2
PROJECT TOTAL	750	

70400200

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

STATION	EACH	REMARKS
CATON FARM ROAD		
RT 16+38	1	STAGE 1
RT 23+88	1	STAGE 1
PROJECT TOTAL	2	

70600250

IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

STATION	EACH	REMARKS
CATON FARM ROAD		
RT 16+38	1	STAGE 2
RT 23+88	1	STAGE 2
PROJECT TOTAL	2	

70600350

PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS

STATION	SQ FT	REMARKS
CATON FARM ROAD		
LT 10+90	15.6	LEFT TURN ARROW
LT 11+15	21.7	WORD "ONLY"
RT 28+15	21.7	WORD "ONLY"
LT 28+40	15.6	LEFT TURN ARROW
PROJECT TOTAL	74.6	

78001100

PAINT PAVEMENT MARKING - LINE 4"

STATION	FOOT	REMARKS
CATON FARM ROAD		
RT 4+00 - 9+00	130	SKIP DASH WHITE
RT 4+00 - 9+22	525	SOLID WHITE EDGE LINE
RT 9+90 - 19+15	925	SOLID WHITE EDGE LINE
10+05 - 11.25	240	DOUBLE YELLOW CENTERLINE
LT 10+05 • 11+25	120	SOLID WHITE TURN LINE
LT 10+05 - 11.25	910	SOLID WHITE EDGE LINE
LT 10+05 - 19+15	230	SKIP DASH WHITE
LT 10+05 • 19+25	230	SKIP DASH WHITE
RT 10+05 - 19+25	1,820	2 DOUBLE YELLOW MEDIAN
11+25 - 15+80	670	DOUBLE YELLOW CENTERLINE
20+80 - 21+05	50	DOUBLE YELLOW CENTERLINE
LT 20+80 • 34+20	310	SKIP DASH WHITE
RT20+80 • 29+10	200	SKIP DASH WHITE
RT 20+80 • 29+40	860	SOLID WHITE EDGE LINE
LT 21+85 • 29+45	760	SOLID WHITE EDGE LINE
20+80 • 21+05	50	DOUBLE YELLOW CENTERLINE
21+80 • 23+35	310	DOUBLE YELLOW CENTERLINE
23+35 • 27+75	1,760	2 DOUBLE YELLOW MEDIAN
27+75 • 29+25	300	DOUBLE YELLOW CENTERLINE
28+05 • 29+25	120	SOLID WHITE TURN LINE
CATON FARM ROAD TOTAL	10,520	
LILY CACHE ROAD		
LT 100+40 - 100+55	55	SOLID WHITE EDGE LINE
RT 100+40 - 100+55	90	SOLID WHITE EDGE LINE
LT 100+55 - 102+35	180	SOLID WHITE EDGE LINE
RT 100+55 - 102+35	180	SOLID WHITE EDGE LINE
LILY CACHE ROAD TOTAL	505	
PROJECT TOTAL	11,025	

78001110

PAINT PAVEMENT MARKING - LINE 12"

STATION	FOOT	REMARKS
CATON FARM ROAD		
11+50 -15+00	45	SOLID YELLOW MEDIAN LINES
23+75 - 28+00	110	SOLID YELLOW MEDIAN LINES
PROJECT TOTAL	155	

78001150

PAINT PAVEMENT MARKING - LINE 24"

STATION	FOOT	REMARKS
CATON FARM ROAD		
RT 9+00	22	STOP BAR
LT 9+95	32	STOP BAR
RT 21+20	20	STOP BAR
PROJECT TOTAL	74	

78003100

POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4"

STATION	FOOT	REMARKS
CATON FARM ROAD		
19+15 - 20+80	330	DOUBLE YELLOW CENTERLINE
RT 19+15 - 20+80	40	SKIP DASH WHITE
RT 19+15 - 20+81	115	SOLID WHITE EDGE LINE
LT 19+15 - 20+80	40	SKIP DASH WHITE
LT 19+15 - 20+81	115	SOLID WHITE EDGE LINE
PROJECT TOTAL	640	

78008210

RAISED REFLECTIVE PAVEMENT MARKER

STATION	EACH	REMARKS
CATON FARM ROAD		
10+05 - 19+15	46	TWO-WAY AMBER MARKER
RT 10+05 - 19+15	11	ONE-WAY CRYSTAL MARKER
LT 10+05 - 19+15	11	ONE-WAY CRYSTAL MARKER
20+80 - 29+25	42	TWO-WAY AMBER MARKER
RT 20+80 - 29+25	11	ONE-WAY CRYSTAL MARKER
LT 20+80 - 29+25	11	ONE-WAY CRYSTAL MARKER
PROJECT TOTAL	132	

78100100

RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

STATION	EACH	REMARKS
CATON FARM ROAD		
19+15 - 20+80	8	TWO-WAY AMBER MARKER
RT 19+15 - 20+80	2	ONE-WAY CRYSTAL MARKER
LT 19+15 - 20+80	2	ONE-WAY CRYSTAL MARKER
PROJECT TOTAL	12	

78100105

SEE SHEETS 25 - 56 FOR LOCATIONS OF STRUCTURAL PAY ITEMS

FILE = S:\PROJECTS\2014\1304D14-Joliet\DESIGN\TRANS\1304D14_ScheduleJes.dgn

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED -	L.G.N.	REVISED -
CHECKED -	G.F.S.	REVISED -
DRAWN -	L.G.N.	REVISED -
CHECKED -	G.F.S.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
STRUCTURE NO. 099-3323
SHEET NO. 3 OF 4 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	9
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

SCHEDULE OF QUANTITIES

GUARDRAIL MARKERS, TYPE A

STATION	EACH	REMARKS
CATON FARM ROAD		
RT 17+91 - 18+88	4	
LT 17+91 - 18+88	4	
RT 21+12 - 22+09	4	
LT 100+37 - 101+10	4	LILY CACHE
PROJECT TOTAL	16	

78200410*

TERMINAL MARKER - DIRECT APPLIED

STATION	EACH	REMARKS
CATON FARM ROAD		
RT 17+91	1	
LT 17+91	1	
RT 22+09	1	
LT 101+10	1	LILY CACHE
PROJECT TOTAL	4	

78201000*

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

STATION	EACH	REMARKS
CATON FARM ROAD		
10+00 - 29+25	105	STAGE 1
LT 12+00 - 16+75	25	STAGE 1
PROJECT TOTAL	130	

78300200

STORM SEWER 12" (SPECIAL)

STATION	FOOT	REMARKS
CATON FARM ROAD		
LT 22+02	17	STAGE 1
PROJECT TOTAL	17	

X5510100*

STORM SEWER REMOVAL

STATION	FOOT	REMARKS
CATON FARM ROAD		
STAGE 1		
LT 19+04	20	
LT 20+91	21	
RT TO LT 100+61	26	
STAGE 1 TOTAL	67	
STAGE 2		
RT 19+04	25	
RT 20+91	25	
STAGE 2 TOTAL	50	
PROJECT TOTAL	117	

X5510100*

INLETS, SPECIAL

STATION	EACH	REMARKS
CATON FARM ROAD		
STAGE 1		
22.81' LT 17+50	1	
13.00' RT 100+57.66	1	LILY CACHE
11.00' RT 100+63.68	1	LILY CACHE
STAGE 1 TOTAL	3	
STAGE 2		
23.81' RT 17+50	1	
22.58' RT 22+36	1	
STAGE 2 TOTAL	2	
PROJECT TOTAL	5	

X6024240*

REMOVING INLETS, SPECIAL

STATION	EACH	REMARKS
CATON FARM ROAD		
STAGE 1		
LT 19+04	1	STAGE 1
LT 20+91	1	STAGE 1
RT 19+02	1	STAGE 2
RT 20+91	1	STAGE 2
PROJECT TOTAL	4	

X6050065*

TEMPORARY PAVEMENT

STATION	SQ YD	REMARKS
CATON FARM ROAD		
LT 14+25 - 18+85	307	6' WIDE STAGE 2
LT 21+00	23	6' WIDE STAGE 2
LT 21+45	44	6' WIDE STAGE 2
LT 21+78 - 25+25	231	
PROJECT TOTAL	605	

Z0062456*

SEE SHEETS 25 - 56 FOR LOCATIONS OF STRUCTURAL PAY ITEMS

FILE = S:\PROJECTS\2014\1304D14_Joliet\DESIGN\TRANS\1304D14_Schedules.dgn

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-002918

DESIGNED -	L.G.N.	REVISED -
CHECKED -	G.F.S.	REVISED -
DRAWN -	L.G.N.	REVISED -
CHECKED -	G.F.S.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
STRUCTURE NO. 099-3323
SHEET NO. 4 OF 4 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	10
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

BENCH MARK #400: R.R. SPIKE IN THE 4TH P.P. WEST OF BRIDGE, N. SIDE OF CATON FARM ROAD, 32.03' LT. OF STATION 14+44.15, EL. 597.03

CONSTRUCTION BEGINS STA. 14+25

SECTION BEGINS STA. 17+00

SECTION LINE

FOREST PRESERVE DISTRICT OF WILL COUNTY WARRANTY DEED R2008071118

PERMANENT WATER AND SEWER EASEMENT

EXISTING R.O.W. LINE

33'-0" & VARIES EXISTING R.O.W.

50'-0" & VARIES EXISTING R.O.W.

CROP LINE

AGG.

CONC.

P.E.L. +94

L.P.

P.P. w/ TRANSFORMER

BM #400

CP #150

P.P.

INLET ADJ.

+17.00 65.00'

+07.00 55.00'

+20.35 40.00'

+20.47 33.00'

OVERHEAD POWER LINE

+0.00 20.00'

+25.00 20.85'

SAWCUT & MATCH EX. PAVEMENT ELEV.

CP #14

F.A.U. 292

13

14

15+00

16

17

18

12" STORM SEWER

F.-F. CURBS.

TRVLD. WAY

24" STORM SEWER

(CATON FARM RD.)

℄ EXISTING ROADWAY

℄ PROPOSED ROADWAY AND SECTION LINE

T-INTERSECTION AHEAD SIGN

+30.00 24.42'

STORM SEWER MANHOLE

STORM SEWER MANHOLE ADJ.

INLETS ADJ.

60" STORM SEWER

CCC&G, TYPE B-6.24 TYP.

INLET

L.P.

±47'-8" F.-F. CURBS.

±44'-0" TRVLD. WAY

+0.00 22.00'

48'-0" F.-F. CURBS.

22'-0"

44'-0"

2'-7"

P.P.

L.P.

TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT) TYP. ALL QUADRANTS

INLETS ADJ.

CCC&G, TYPE B-6.24 TYP.

+30.00 24.42'

42" STORM SEWER

10" STUMP

9"

10"

2' Ø BUSH

6' Ø BUSH

CONCRETE STATUE

9" 2' Ø BUSH

4' Ø BUSH

SIGN

9"

4' Ø BUSH

EXISTING DITCH

S.S. MANHOLE ADJ.

EXISTING BIT. SIDEWALK

EXISTING CONCRETE SIDEWALK

EXISTING FENCE

EXISTING R.O.W. LINE

EXISTING BIT. SIDEWALK

EXISTING BIT. SIDEWALK

TELEPHONE SPLICE BOX

EXISTING DITCH

MATCHLINE STA. 18+50

TIMOTHY L. DUFFY R95033663

PLAINFIELD TOWNSHIP PARK DISTRICT PIN #06-03-34-204-082-0000

EX. INLET
E.O.P. ELEV.=591.31
E. INV.=588.50
EX. W. INV.=587.85
EX. S. INV.=587.17

PR. (12") STORM SEWER, CL. A, TYPE 1 @ 0.5%

PR. INLET, SPECIAL
STA. 17+50.00, LT. 22.81'
E.O.P. ELEV.=591.34
W. INV.=588.56

+20.38 45.00'

+20.45 40.00'

PR. INLET, SPECIAL
STA. 17+50.00, RT. 22.81'
E.O.P. ELEV.=591.34
W. INV.=588.56

PR. (12") STORM SEWER, CL. A, TYPE 1 @ 0.5%

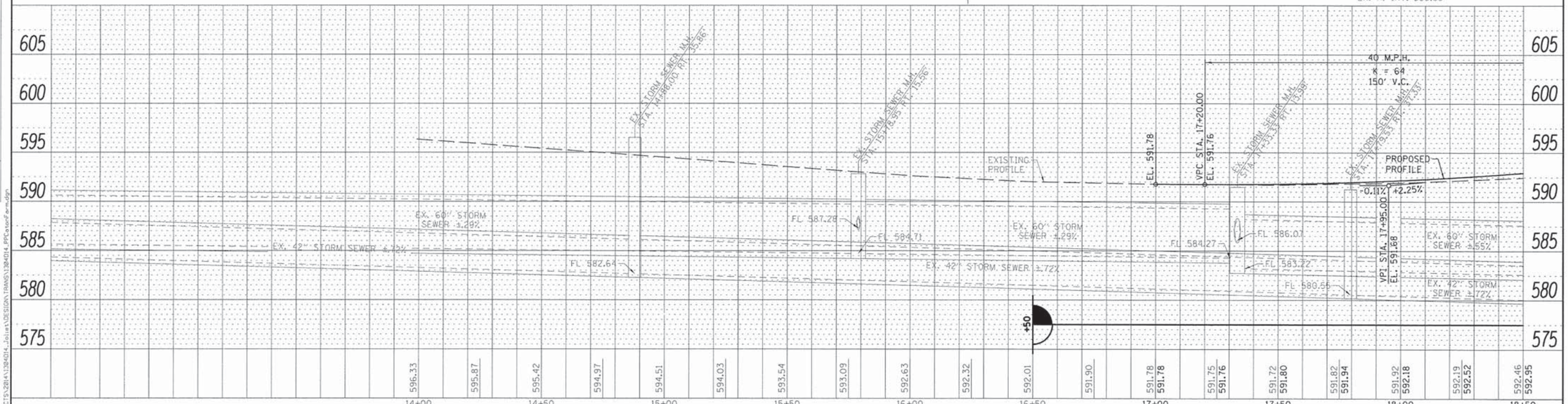
EX. INLET
E.O.P. ELEV.=591.31
E. INV.=588.50
EX. W. INV.=586.85
EX. N. INV.=586.85

Know what's below. Call before you dig.

N

SCALE: 1" = 20'-0"

0' 20' 40' 60'



DESIGNED	L.G.N.	REVISED	-
CHECKED	G.F.S.	REVISED	-
DRAWN	B.R.L.	REVISED	-
CHECKED	G.F.S.	REVISED	-

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE AND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
TEL 815-284-3351 DESIGN FIRM #184-000918

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
STRUCTURE NO. 099-3323

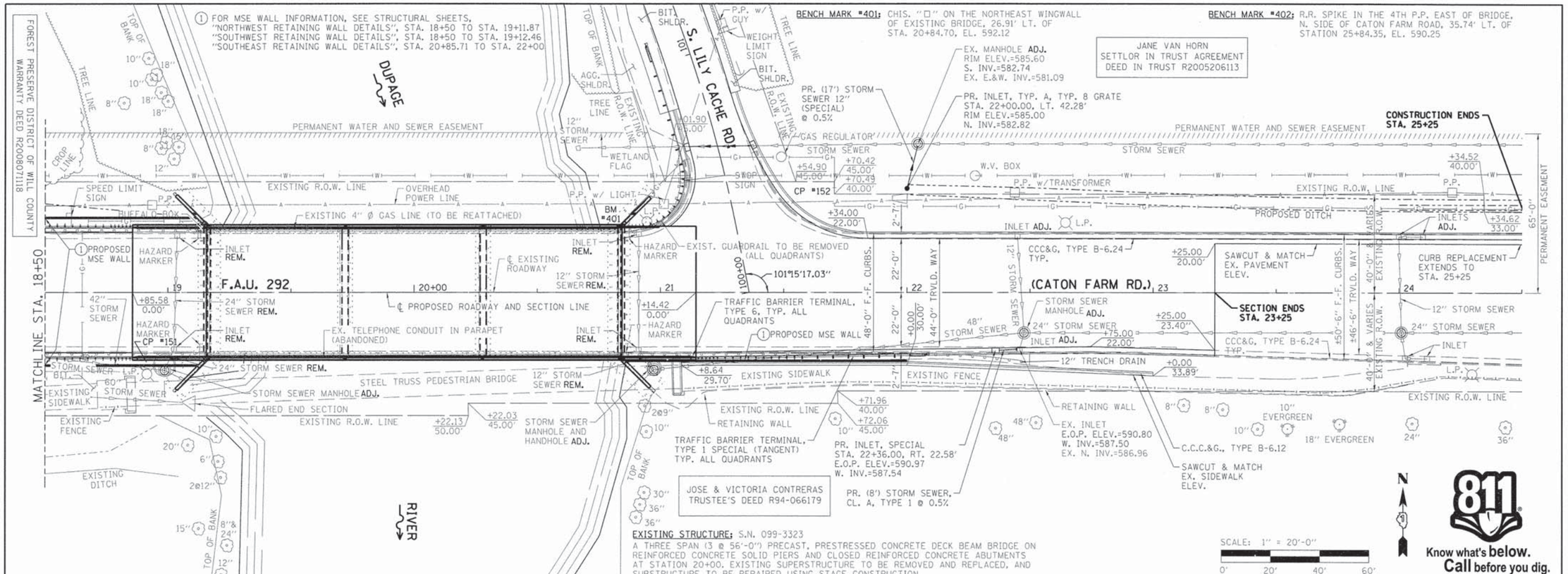
SCALE: 1" = 20' | SHEET NO. 1 OF 2 SHEETS | STA. 12+50 TO STA. 18+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	11
	WHA# 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

PLAN: SURVEYED, PLOTTED, DRAWN, CHECKED, R.T. OF WAY CHECKED, ADD'L FILE NAME, NOTE BOOK, NO.

PROFILE: SURVEYED, PLOTTED, DRAWN, CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO.

FILE = S:\PROJECTS\2014\1304014_Julius\DESIGN\TRANS\1304014_PPCatonFarm.dgn



DESIGNED - L.G.N.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE STRUCTURE NO. 099-3323
CHECKED - G.F.S.	REVISED -		SCALE: 1" = 20' | SHEET NO. 2 OF 2 SHEETS | STA. 18+50 TO STA. 24+50
DRAWN - B.R.L.	REVISED -		
CHECKED - G.F.S.	REVISED -		

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T) 815-284-3381 DESIGN FIRM: #184-0009-8

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	12
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

FILE = S:\PROJECTS\2014\1304D14_Joliet\DESIGN\TRANS\1304D14_PPCatonFarm.dgn

RIVER

TOP OF BANK

36" 36" 30" 10" 20"

RETAINING WALL

JOSE & VICTORIA CONTRERAS
TRUSTEE'S DEED R94-086179

EXISTING R.O.W. LINE

EXISTING SIDEWALK

EXISTING R.O.W. LINE

EXISTING FENCE

48" 48"

FAU 292

(CATON FARM RD.)

22'

℄ PROPOSED ROADWAY & SECTION LINE

POT STA. 100+00.00

POT STA. 100+24.71

100+00

+72.06
45.00'

+71.96
40.00'

CP
*152

+39.75
27.51'

+36.57
42.66'

+32.00
41.68'

EXISTING R.O.W. LINE

PERMANENT WATER AND SEWER EASEMENT

BM
*401

12" STRM. SWR.

WETLAND FLAG

TRAFFIC BARRIER TERMINAL, TYPE 6

INLET, SPECIAL
STA. 100+63.68, LT. 11.00'
E.O.P. ELEV.=591.12
MATCH EX. INV. ELEV.=±580.44

TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL

DUPAGE

CREEK

STRUCTURE NO.
099-3122

+80.00
15.00'

+81.46
25.26'

+00.00
15.00'

EXISTING R.O.W. LINE

TOP OF BANK

AGG. SHLDR.

BIT. SHLDR.

4'-0" SHLDR.

TREE LINE

+35.00
12.00'

POT STA. 103+50.00

PC STA. 100+24.71

+51.89
24.07'

+80.00
19.00'

+20.64
15.00'

℄ PROPOSED ROADWAY

SECTION ENDS
STA. 102+35

30'-0" ROADWAY

11'-0" 11'-0"

22'-0" SURFACE

101

103

PT STA. 101+23.33

S. LILY CACHE RD.

LILY CACHE

PI STA. 100+74.13

BIT. SHLDR.

P.P. w/ GUY

WEIGHT LIMIT SIGN

BIT. SHLDR.

4'-0" SHLDR.

STREET SIGN

+81.55
24.76'

P.P. w/ GUY

+00.00
15.00'

+35.00
12.00'

EXISTING R.O.W. LINE

TREE LINE

+80.00
15.00'

(26') STORM SEWER 12",
CL. A, TYPE 1 @ ±0.7%

INLET, SPECIAL
STA. 100+57.66, RT. 13.22'
E.O.P. ELEV.=591.27
MATCH EX. INV. ELEV.=±580.63

PROP. CURVE1
PI STA. = 100+74.13
Δ = 9° 25' 02" (LT)
D = 9° 32' 57"
R = 600.00'
T = 49.42'
L = 98.62'
E = 2.03'
P.C. STA = 100+24.71
P.T. STA = 101+23.33

JANE VAN HORN
SETTLOR IN TRUST AGREEMENT
DEED IN TRUST R2005206113

SCALE: 1" = 20'-0"
0' 20' 40' 60'

Know what's below.
Call before you dig.

K = 38
210' V.C.
30 M.P.H.

595 595 590 585 580 575

600 595 590 585 580 575

593.46

-1.56%

VPI STA. 100+25.00
EL. 593.07

-5.00%

PROPOSED PROFILE

EXISTING PROFILE

-5.00%

+0.51%

VPI STA. 101+30.00
EL. 587.82

VPC STA. 102+35.00
EL. 588.36

+25

+35

EARTH EXCAVATION (SPECIAL) = 64 C.Y.
FURNISHED EXCAVATION = 0 C.Y.
*CHANNEL EXCAVATION = 0 C.Y.

FURNISHED EXCAVATION = EMBANKMENT - ¾(EARTH EX. + ½ CHANNEL EX.)

592.08 593.46 | 591.76 593.07 | 591.06 591.90 | 590.11 590.90 | 589.03 590.06 | 588.52 589.38 | 588.32 588.87 | 588.25 588.52 | 588.25 588.34 | 588.32 588.32 | 588.42 | 588.45 | 588.62 | 588.85 | 589.28

100+00 100+50 101+00 101+50 102+00 102+50 103+00 103+50

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
ALIGNMENT CHECKED
RT.-OF-WAY CHECKED
LAND SURVEY MARK
BY
DATE

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
GRADES CHECKED
ELM. NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

FILE = S:\PROJECTS\2014\130401d_Joliet\DESIGN\TRANS\130401d_PPL.dgn

WILLETT HOFMANN ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM #184-000918

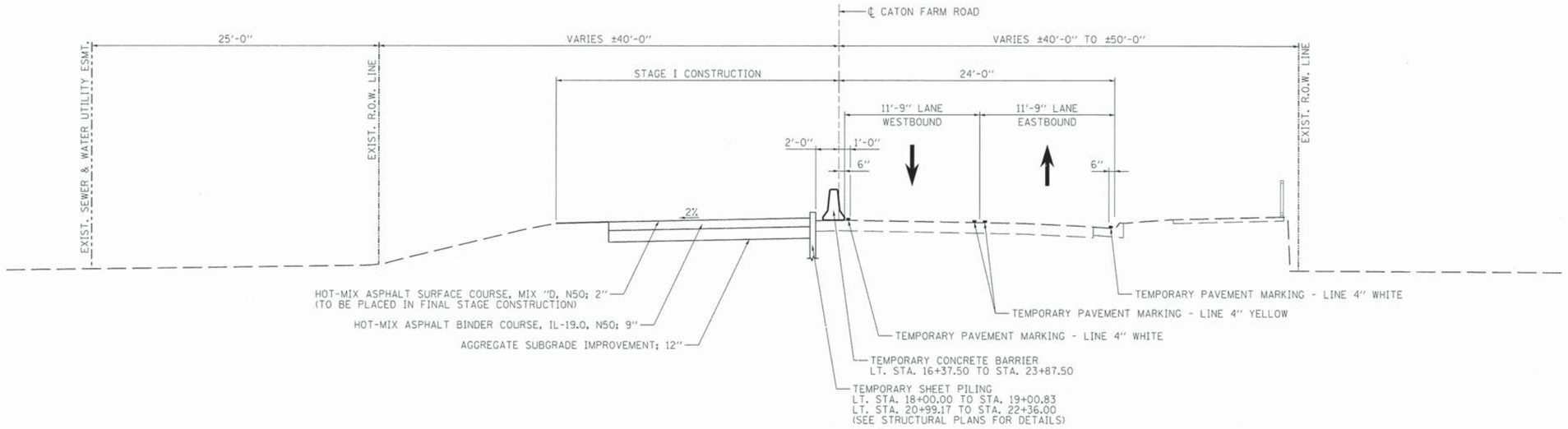
DESIGNED	L.G.N.	REVISED	-
CHECKED	G.F.S.	REVISED	-
DRAWN	B.R.L.	REVISED	-
CHECKED	G.F.S.	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LILY CACHE ROAD

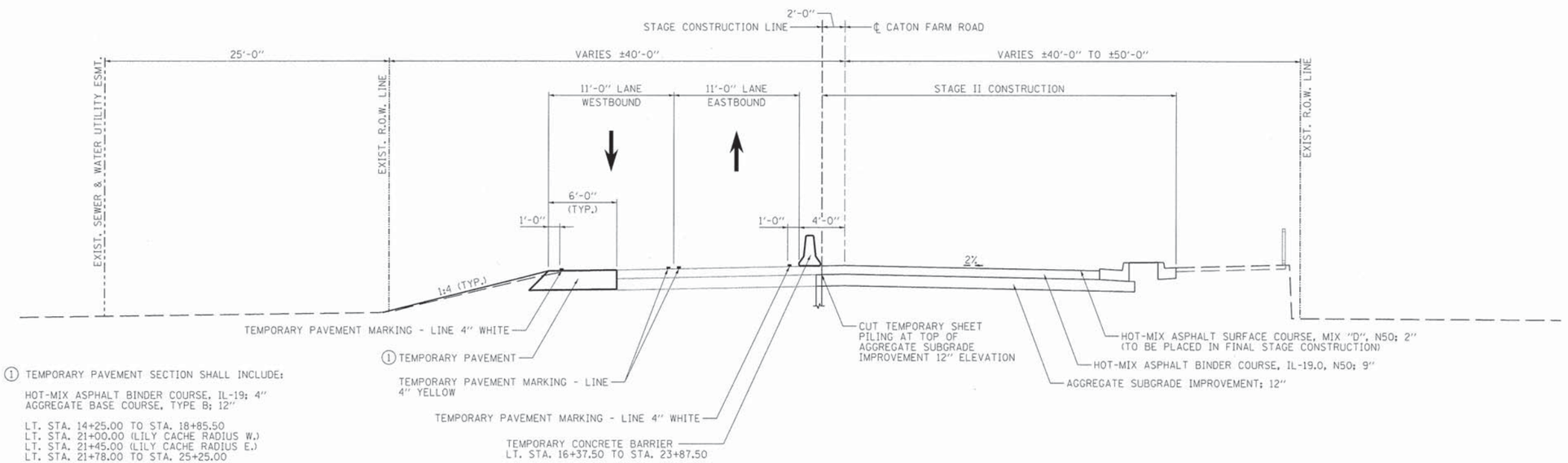
SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. 100+00 TO STA. 103+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	13
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



STAGE I TYPICAL SECTION

(LOOKING EAST)
STA. 17+00.00 TO STA. 23+25.00



① TEMPORARY PAVEMENT SECTION SHALL INCLUDE:

HOT-MIX ASPHALT BINDER COURSE, IL-19; 4"
AGGREGATE BASE COURSE, TYPE B; 12"

LT. STA. 14+25.00 TO STA. 18+85.50
LT. STA. 21+00.00 (LILY CACHE RADIUS W.)
LT. STA. 21+45.00 (LILY CACHE RADIUS E.)
LT. STA. 21+78.00 TO STA. 25+25.00

EXISTING C.C.C.&G., TYPE B-6.24 (SHALL BE REMOVED FROM):
LT. STA. 14+25.00 TO STA. 17+00.00
LT. STA. 23+25.00 TO STA. 25+25.00
TO ACCOMMODATE TEMPORARY PAVEMENT

INLETS WITHIN THE LIMITS OF TEMPORARY PAVEMENT SHALL BE PLATED AND GRATES REINSTALLED DURING FINAL STAGE CONSTRUCTION

STAGE II TYPICAL SECTION

(LOOKING EAST)
STA. 17+00.00 TO STA. 23+25.00

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WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
609 EAST 2ND STREET, OTTAWA, IL 61350-0367
T: 815-434-3381 DESIGN FIRM: #184-000918

DESIGNED - L.G.N.	REVISED -	
CHECKED - G.F.S.	REVISED -	
DRAWN - B.R.L.	REVISED -	
CHECKED - G.F.S.	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION TYPICAL SECTIONS
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 1 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	14
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

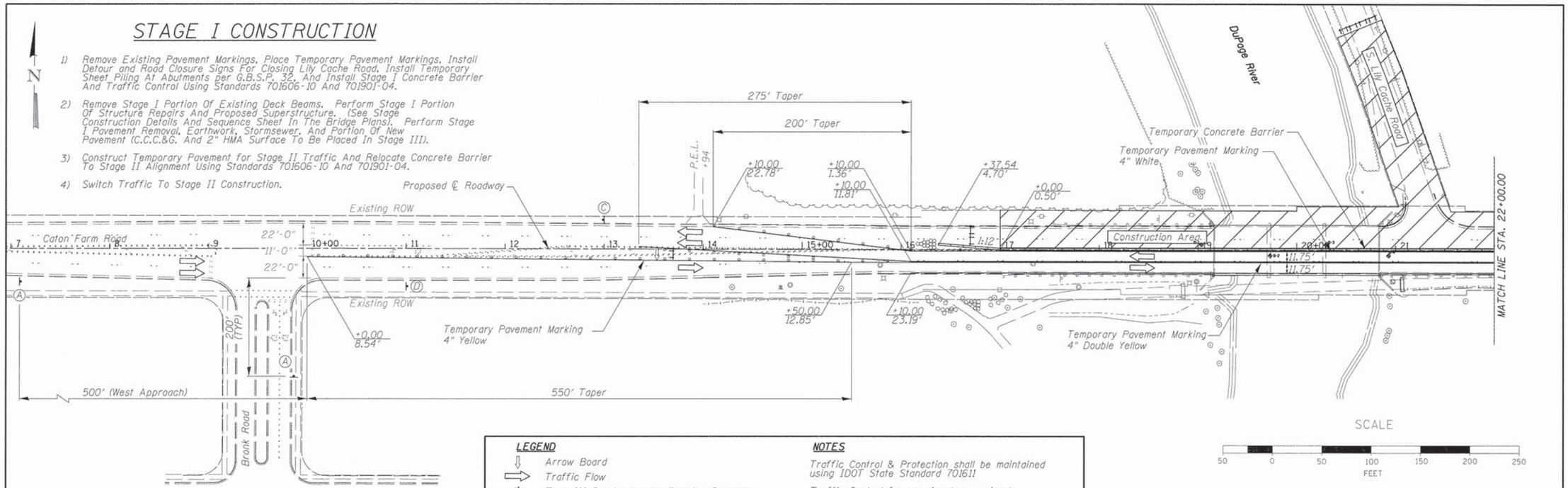
STAGE I CONSTRUCTION

1) Remove Existing Pavement Markings. Place Temporary Pavement Markings. Install Detour and Road Closure Signs For Closing Lily Cache Road. Install Temporary Sheet Piling At Abutments per G.B.S.P. 32. And Install Stage I Concrete Barrier And Traffic Control Using Standards 701606-10 And 701901-04.

2) Remove Stage I Portion Of Existing Deck Beams. Perform Stage I Portion Of Structure Repairs And Proposed Superstructure. (See Stage Construction Details And Sequence Sheet In The Bridge Plans). Perform Stage I Pavement Removal, Earthwork, Stormsewer, And Portion Of New Pavement (C.C.C.&G. And 2" HMA Surface To Be Placed In Stage III).

3) Construct Temporary Pavement for Stage II Traffic And Relocate Concrete Barrier To Stage II Alignment Using Standards 701606-10 And 701901-04.

4) Switch Traffic To Stage II Construction.



LEGEND

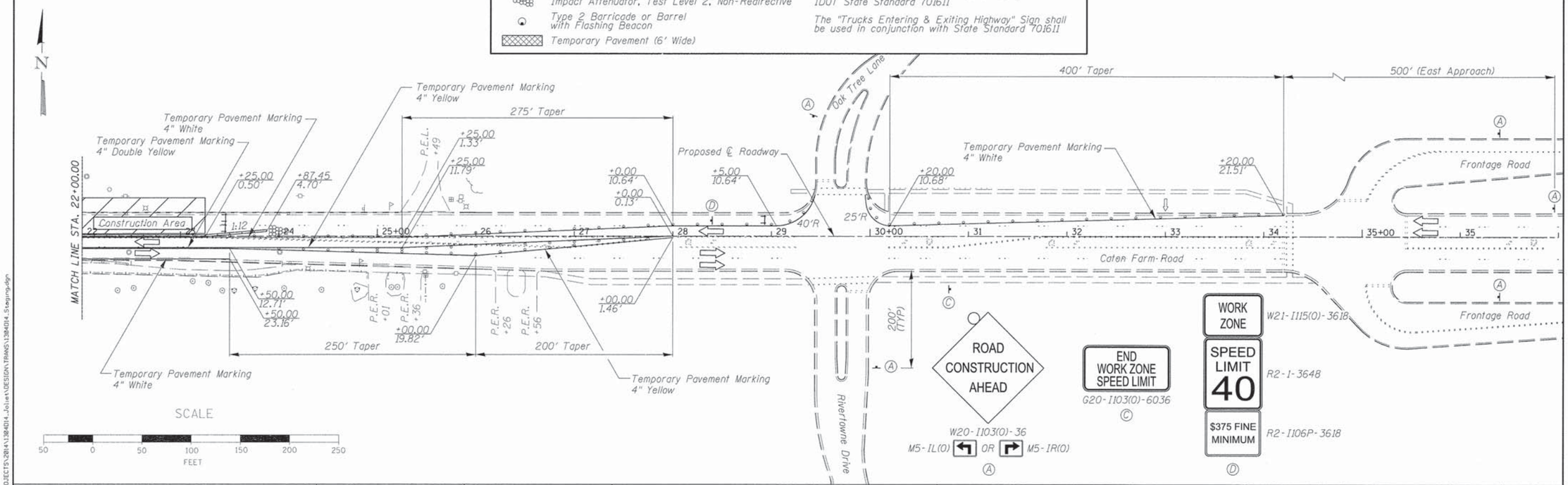
- Arrow Board
- Traffic Flow
- Type III Barricade with Flashing Beacons
- Impact Attenuator, Test Level 2, Non-Redirective
- Type 2 Barricade or Barrel with Flashing Beacon
- Temporary Pavement (6' Wide)

NOTES

Traffic Control & Protection shall be maintained using IDOT State Standard 701611

Traffic Control for merging lanes prior to construction area shall be completed using IDOT State Standard 701611

The "Trucks Entering & Exiting Highway" Sign shall be used in conjunction with State Standard 701611



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WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
509 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - L.G.N.	REVISED -	
CHECKED - G.F.S.	REVISED -	
DRAWN - L.G.N.	REVISED -	
CHECKED - G.F.S.	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CATON FARM ROAD STAGING PLAN
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 2 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	15
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

STAGE II CONSTRUCTION

1) Remove Remaining Existing Deck Beams. Perform Stage II Portion Of Structure Repairs And Proposed Superstructure. (See Stage Construction Details And Sequence Sheet In The Bridge Plans). Perform Stage II Pavement Removal, Earthwork, Stormsewer, C.C.C.&G., And Portion Of New Pavement (2" HMA Surface To Be Placed In Stage III).

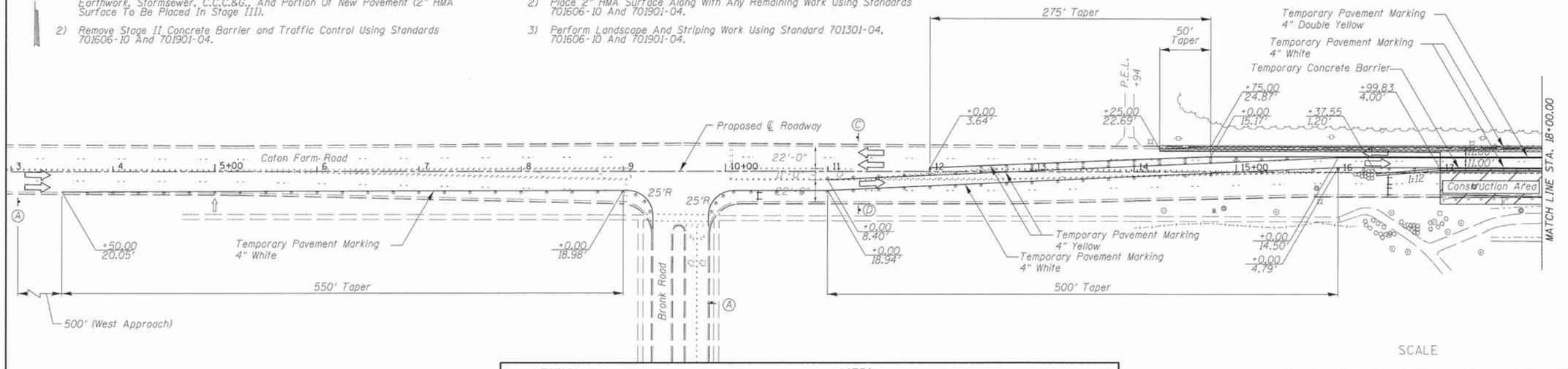
2) Remove Stage II Concrete Barrier and Traffic Control Using Standards 701606-10 And 701901-04.

STAGE III CONSTRUCTION

1) Remove Temporary Pavement And Install Remaining Portion of Proposed C.C.C.&G. Using Standard 701606-10 And 701901-04.

2) Place 2" HMA Surface Along With Any Remaining Work Using Standards 701606-10 And 701901-04.

3) Perform Landscape And Striping Work Using Standard 701301-04, 701606-10 And 701901-04.



SCALE

50 0 50 100 150 200 250

FEET

LEGEND

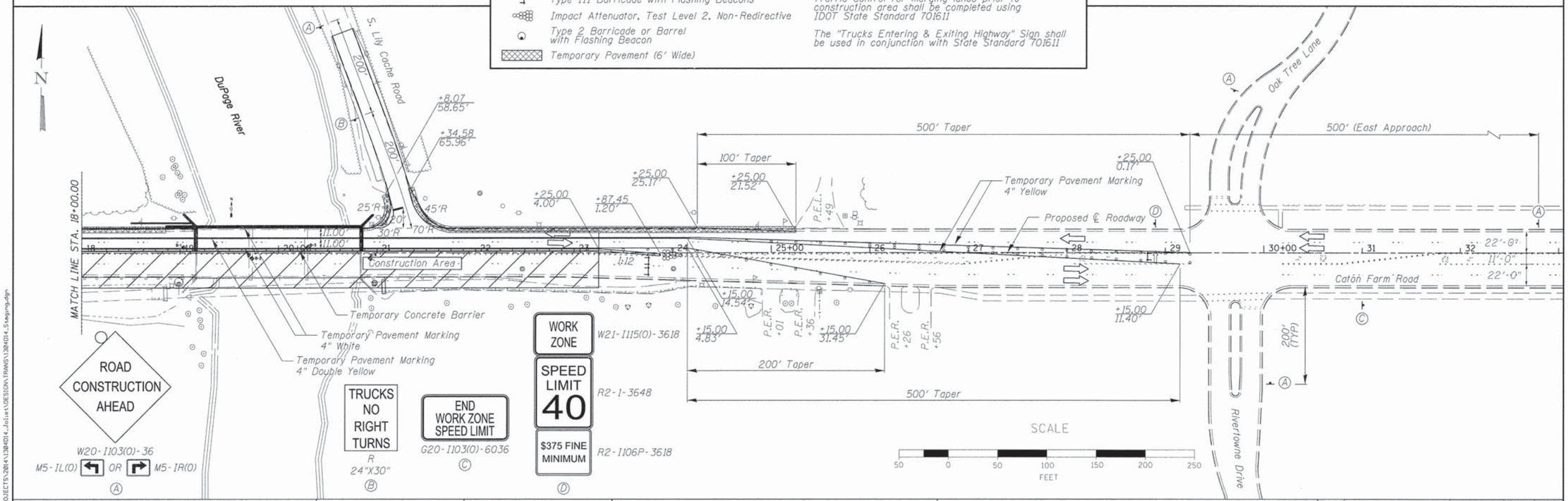
- Arrow Board
- Traffic Flow
- Type III Barricade with Flashing Beacons
- Impact Attenuator, Test Level 2, Non-Redirective
- Type 2 Barricade or Barrel with Flashing Beacon
- Temporary Pavement (6' Wide)

NOTES

Traffic Control & Protection shall be maintained using IDOT State Standard 701611

Traffic Control for merging lanes prior to construction area shall be completed using IDOT State Standard 701611

The "Trucks Entering & Exiting Highway" Sign shall be used in conjunction with State Standard 701611



SCALE

50 0 50 100 150 200 250

FEET

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WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-3367
TEL 815-284-3361 DESIGN FIRM: #184-000918

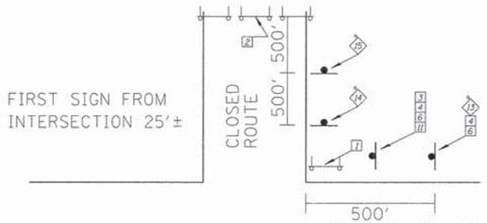
DESIGNED	L.G.N.	REVISED	-
CHECKED	G.F.S.	REVISED	-
DRAWN	L.G.N.	REVISED	-
CHECKED	G.F.S.	REVISED	-

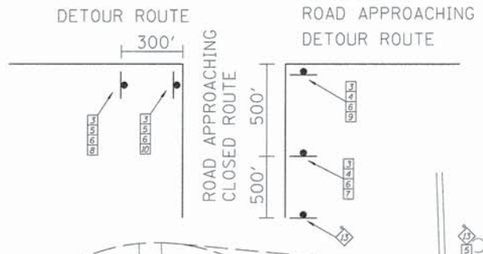
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CATON FARM ROAD STAGING PLAN
STRUCTURE NO. 099-3323
SHEET NO. 2 OF 2 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	16
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

TYPICAL DETOUR & ROAD CLOSURE SIGN SPACING





LEGEND

- DETOUR ROUTE
- ROAD CLOSURE PARTIALLY CLOSED PORTION
- ROAD CLOSURE COMPLETELY CLOSED PORTION
- 48" X 48" CONSTRUCTION SIGN WITH AMBER FLASHING LIGHT NUMBER DENOTES SIGN TYPE
- TYPE III BARRICADE W/ FLASHING LIGHTS
- OTHER DETOUR SIGNS, NUMBER DENOTES TYPE

SIGN LEGEND

1	ROAD CLOSED TO THRU TRAFFIC	R11-4, 60" X 30"	11		M6-3(0), 21" X 15"
2	ROAD CLOSED	R11-2, 48" X 30"	12	END DETOUR	M4-8a, 24" X 18"
3	DETOUR	M4-8, 24" X 12"	13	DETOUR AHEAD	W20-2, 48" X 48" WITH AMBER FLASHING LIGHTS AND FLAG.
4	NORTH	M3-1(0), 24" X 12"			
5	SOUTH	M3-3(0), 24" X 12"	14	ROAD CLOSED AHEAD	W20-3, 48" X 48" WITH AMBER FLASHING LIGHTS AND FLAG.
6	Lily Cache Road	Special, 30" X 18" See Sign Design in Special Provisions			
7		M5-1L(0), 21" X 15"	15	ROAD CLOSED 500 FT	W20-3, 48" X 48" WITH AMBER FLASHING LIGHTS AND FLAG.
8		M5-1R(0), 21" X 15"			
9		M6-1L(0), 21" X 15"	16		CHANGEABLE MESSAGE SIGN
10		M6-1R(0), 21" X 15"			

DETOUR SIGN LAYOUT

DETOUR GENERAL NOTES

TOTAL LENGTH OF THE DETOUR IS 1.75 MILES.

CHANGEABLE MESSAGE SIGNS ONLY REQUIRED PRIOR TO LILY CACHE RD. CLOSURE. SIGNS CAN BE REMOVED ONCE THE DETOUR IS IN PLACE.

ALL DETOUR SIGNS, SHALL BE COMPLETELY COVERED AT ALL TIMES THE ROADWAY IS NOT CLOSED TO TRAFFIC

LONGITUDINAL DIMENSIONS SHOWN ON THE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

THE CONTRACTOR SHALL MAKE ALL CHANGES IN SIGNING THAT ARE DEEMED NECESSARY BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE DETOUR IS IN EFFECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNING, BRUSHING BACK VEGETATION IF DEEMED BY THE ENGINEER.

ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTIONS ADOPTED JAN. 1, 2012", "THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES, LATEST EDITION", THE DETAILS IN THESE PLANS, AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THIS DETOUR SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1106.02 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING THE HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.

THE CONTRACTOR SHALL SCHEDULE ALL WORK IN AN EXPEDIENT MANNER TO REDUCE THE LENGTH OF TIME THAT THE DETOUR NEEDS TO BE IN EFFECT.

WILLETT HOFMANN & ASSOCIATES, INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED -	L.G.N.	REVISED -
CHECKED -	G.F.S.	REVISED -
DRAWN -	L.G.N.	REVISED -
CHECKED -	G.F.S.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LILY CACHE ROAD CLOSURE & DETOUR PLAN
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 1 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	17
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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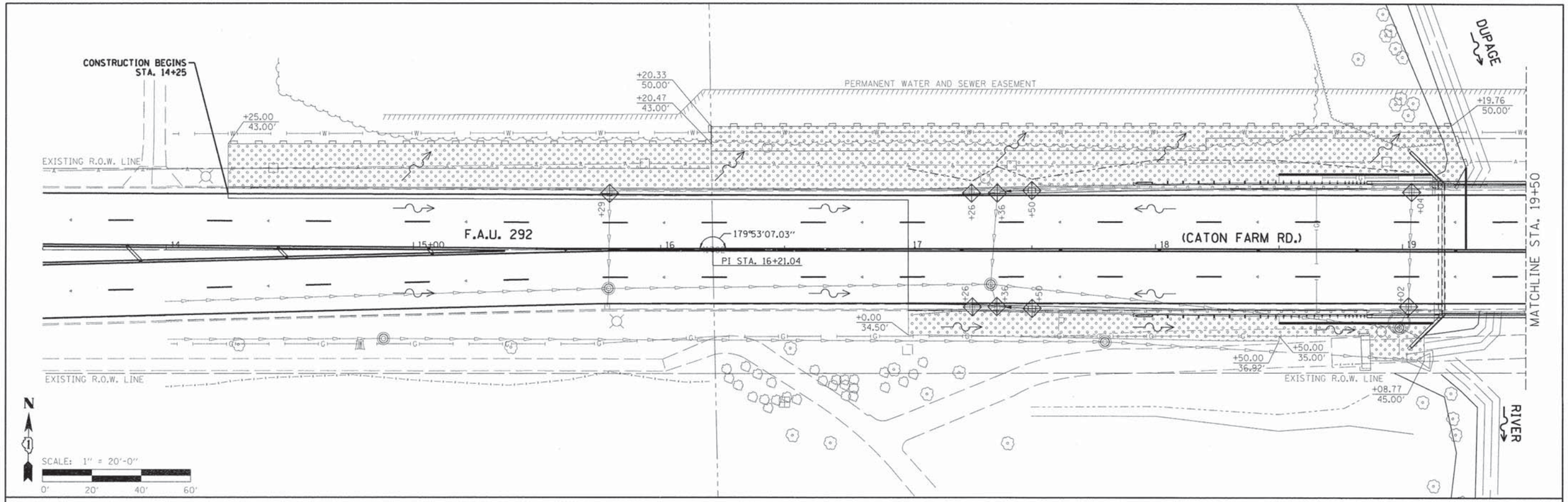


LEGEND:

PERIMETER EROSION BARRIER

SODDING, SALT TOLERANT

INLET AND PIPE PROTECTION

TEMPORARY DITCH CHECKS

RUNOFF FLOW DIRECTION

SOIL EROSION AND SEDIMENT CONTROL NOTES

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER. THEREFORE, MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SECTION 280, TEMPORARY EROSION CONTROL, OF THE STANDARD SPECIFICATIONS ADDITIONALLY SUPPLEMENTS THIS PLAN.

SITE DESCRIPTION:

DESCRIPTION OF CONSTRUCTION ACTIVITY;

1. THIS PROJECT CONSISTS OF THE REHABILITATION OF THE STRUCTURE CARRYING CATON FARM ROAD OVER THE DUPAGE RIVER IN THE CITY OF JOLIET, WITH APPROACH ROADWAY WORK THERETO.
2. CONSTRUCTION INCLUDES EARTH EXCAVATION, CONCRETE STRUCTURES CURB AND GUTTER, NEW STORM SEWER AND INLETS, PAVEMENT ITEMS, AND OTHER MISCELLANEOUS ITEMS OF CONSTRUCTION.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOIL FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE;

1. REMOVAL OF EXISTING PCC DECK BEAMS
2. REPAIR OF SPALLED ABUTMENTS
3. ERECTION OF STEEL BEAMS (COMPOSITE IN ALL REGIONS)
4. CONSTRUCTION OF DECK AND PARAPETS
5. RECONSTRUCTION OF ROADWAY

AREA OF CONSTRUCTION SITE;

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 1.95 ACRES OF WHICH 1.60 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS;

1. TOPOGRAPHIC SURVEY
2. PROJECT PLAN DOCUMENTS
3. ILLINOIS URBAN MANUAL

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE;

DUPAGE RIVER

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

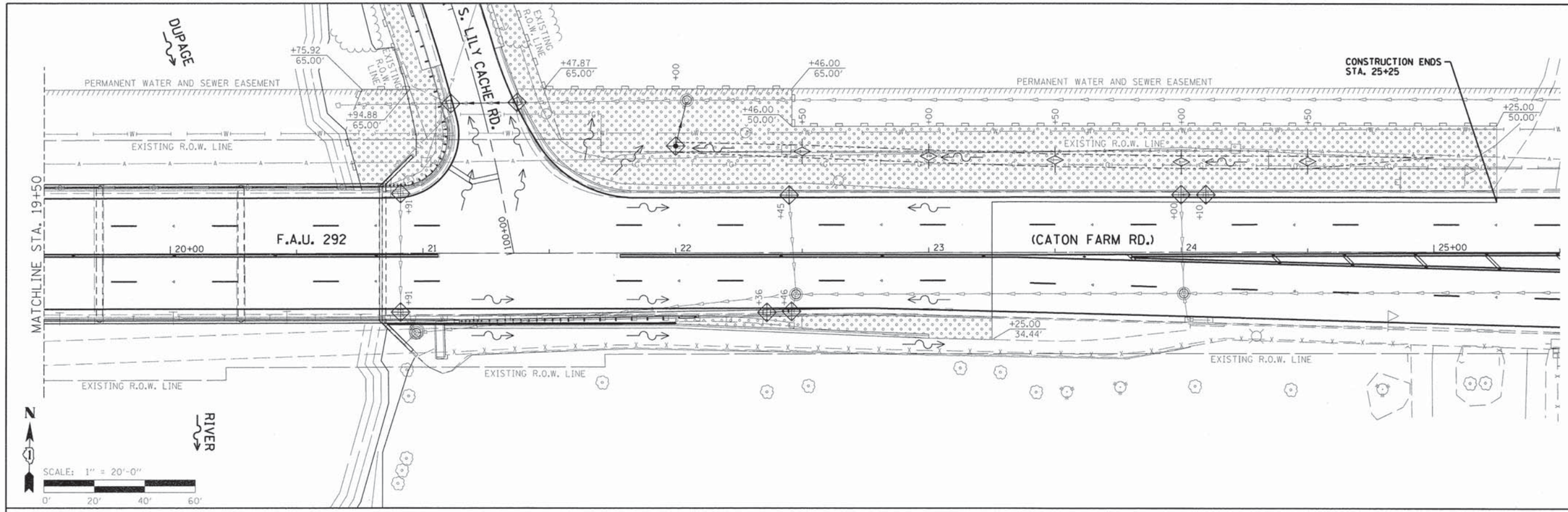
DESIGNED	L.G.N.	REVISED	-
CHECKED	G.F.S.	REVISED	-
DRAWN	B.R.L.	REVISED	-
CHECKED	G.F.S.	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 3 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	18
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

FILE = S:\PROJECTS\2014\1304D14_Joliet\DESIGN\TRANS\1304D14_SWPPP.dgn



LEGEND:

PERIMETER EROSION BARRIER

SODDING, SALT TOLERANT

INLET AND PIPE PROTECTION

TEMPORARY DITCH CHECKS

RUNOFF FLOW DIRECTION

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROL

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

1. THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE, AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SODDING, MULCHING, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

   (A) AREAS OF EXISTING VEGETATION (WOOD AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.

   (B) DEAD, DISEASED OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER, ALONG WITH REQUIRED TREE REMOVAL.

   (C) AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS, INLET AND PIPE PROTECTION AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THE PLAN AND DIRECTED BY THE ENGINEER.

   (D) BARE AND SPARSELY VEGETATED GROUND IN HIGH ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORALLY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN 7 DAYS.

   (E) IMMEDIATELY AFTER EARTH EXCAVATION IS COMPLETED, AREAS WHICH ARE HIGHLY ERODABLE AS DETERMINED BY THE ENGINEER, SHALL BE TEMPORARILY SEEDED WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN 7 DAYS.

   (F) AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS (ADJACENT LANDOWNERS), TEMPORARY DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES AND COLLECT OUTSIDE SILTATION INSIDE THE RIGHT-OF-WAY LINE.

2. ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SODDING CAN BE COMPLETED.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.

   (A) WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.

   (B) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN 14 DAYS.

   (C) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:

      (I) PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.

      (II) TEMPORARILY SEED ERODABLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODABLE SURFACE AREA WITHIN THE CONTRACT LIMITS.

      (III) RECONSTRUCT ROADWAY, CURB AND GUTTER AND SIDEWALKS.

      (IV) PLACE PERMANENT EROSION CONTROL ITEMS

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ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0342
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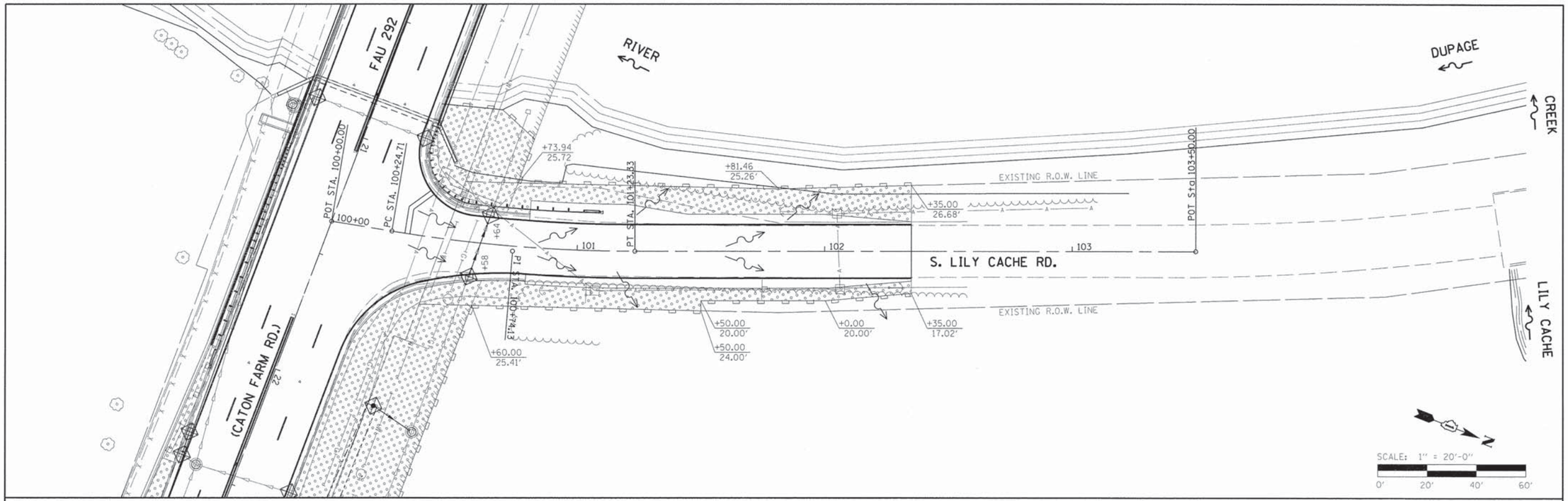
CHECKED - G.F.S.	REVISED -	
DRAWN - B.R.L.	REVISED -	
CHECKED - G.F.S.	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STRUCTURE NO. 099-3323
SHEET NO. 2 OF 3 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	19
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



LEGEND:

PERIMETER EROSION BARRIER

SODDING, SALT TOLERANT

INLET AND PIPE PROTECTION

TEMPORARY DITCH CHECKS

RUNOFF FLOW DIRECTION

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION CONT'D.:

(D) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SODDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 7 DAYS.

(E) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OF OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.

(F) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF ½ INCH OR GREATER OR EQUIVALENT SNOWFALL AND DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.

(G) SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR EARTH EXCAVATION.

(H) THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

1. TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SODDED AND ESTABLISHED.

2. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEEDED.

MAINTENANCE AFTER CONSTRUCTION:

1. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY I.D.O.T. FINAL INSPECTION. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.

MISCELLANEOUS:

1. ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.

2. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS./ACRE.

3. SEE SPECIAL PROVISIONS FOR SODDING, SALT TOLERANT.

4. ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
NITROGEN FERTILIZER NUTRIENT	POUND	39
POTASSIUM FERTILIZER NUTRIENT	POUND	39
SODDING, SALT TOLERANT	SQ. YD.	3,106
SUPPLEMENTAL WATERING	UNIT	93
TEMPORARY EROSION CONTROL SEEDING	POUND	640
TEMPORARY DITCH CHECKS	FOOT	60
PERIMETER EROSION BARRIER	FOOT	1,314
INLET AND PIPE PROTECTION	EACH	18

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM #184.000918

DESIGNED -	L.G.N.	REVISED -
CHECKED -	G.F.S.	REVISED -
DRAWN -	B.R.L.	REVISED -
CHECKED -	G.F.S.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
STRUCTURE NO. 099-3323
SHEET NO. 3 OF 3 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	20
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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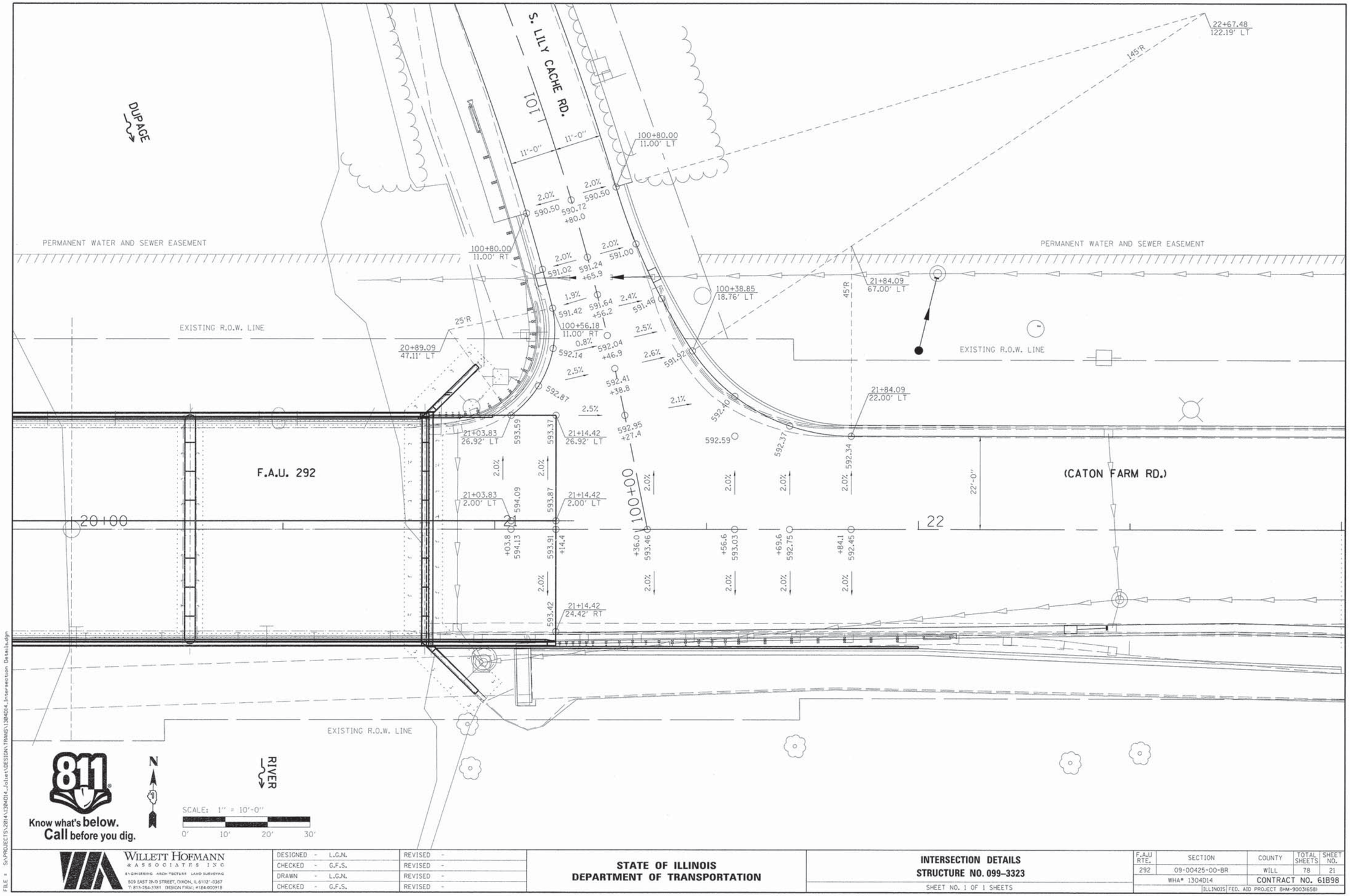

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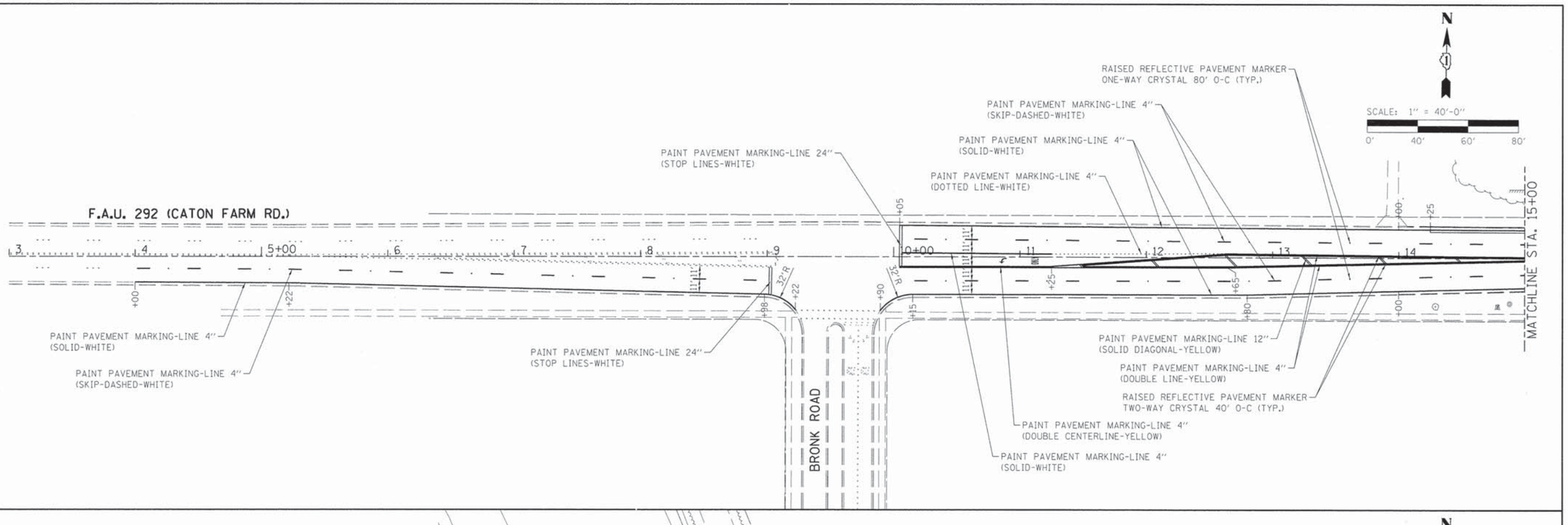
WILLETT HOFMANN & ASSOCIATES INC ENGINEERING ARCHITECTURE LAND SURVEYING 509 EAST 29TH STREET, DIXON, IL 61021-0367 T: 815-284-3381 DESIGN FIRM: #184.000918	DESIGNED - L.G.N. CHECKED - G.F.S. DRAWN - L.G.N. CHECKED - G.F.S.	REVISED - REVISED - REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 1 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	21
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



DESIGNED - L.G.N.	REVISED -	**STATE OF ILLINOIS**	**PAVEMENT MARKING PLAN**
CHECKED - G.F.S.	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**STRUCTURE NO. 099-3323**
DRAWN - L.G.N.	REVISED -		SHEET NO. 1 OF 2 SHEETS
CHECKED - G.F.S.	REVISED -		

WILLETT HOFMANN & ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
509 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	22
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

NOTE:

RAISED REFLECTIVE PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST IDOT DISTRICT 1 STANDARD TC-11.

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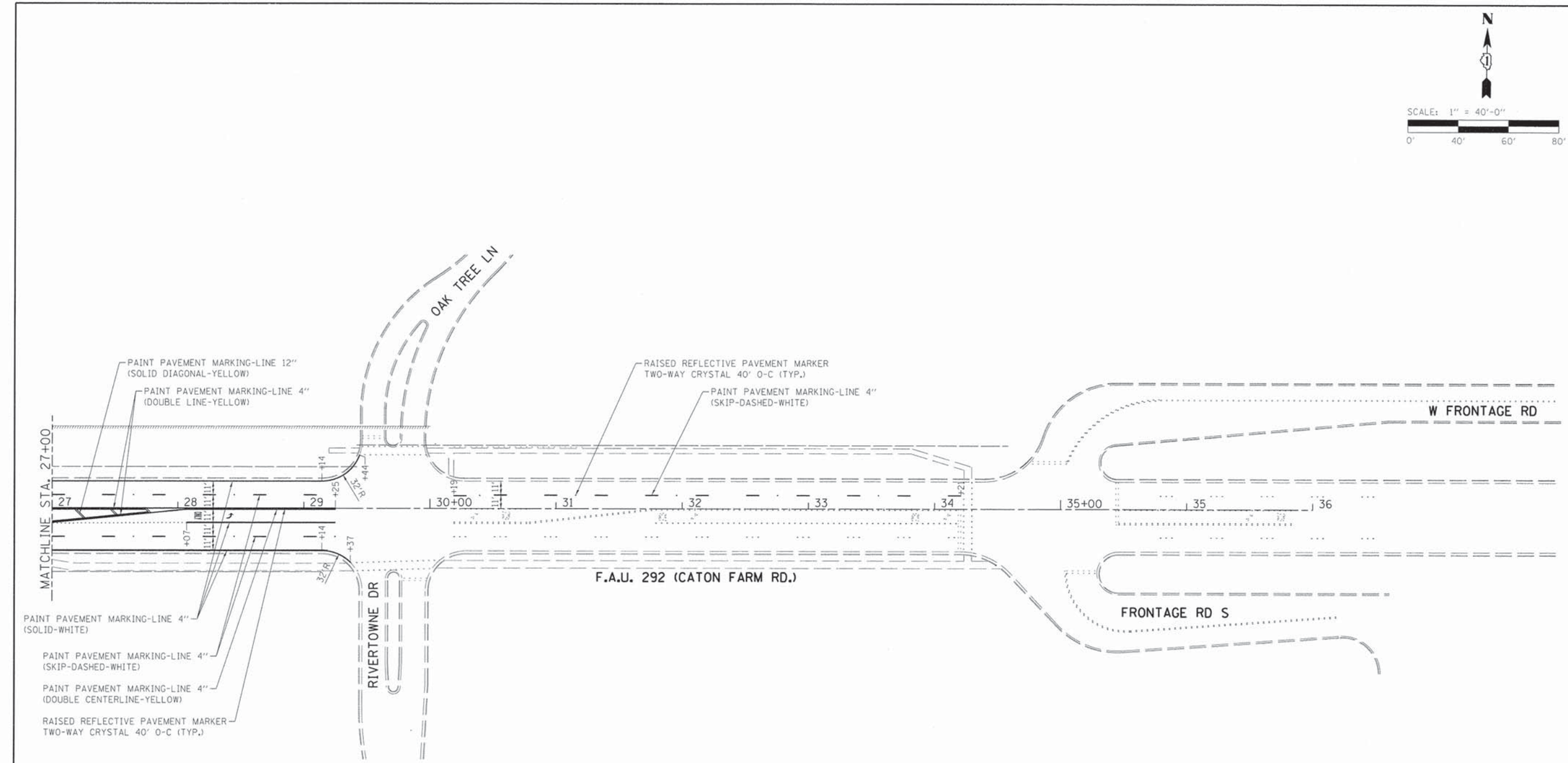

NOTE:

RAISED REFLECTIVE PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST IDOT DISTRICT 1 STANDARD TC-11.

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T. 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED	L.G.N.	REVISED	-
CHECKED	G.F.S.	REVISED	-
DRAWN	L.G.N.	REVISED	-
CHECKED	G.F.S.	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
STRUCTURE NO. 099-3323
SHEET NO. 2 OF 2 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	23
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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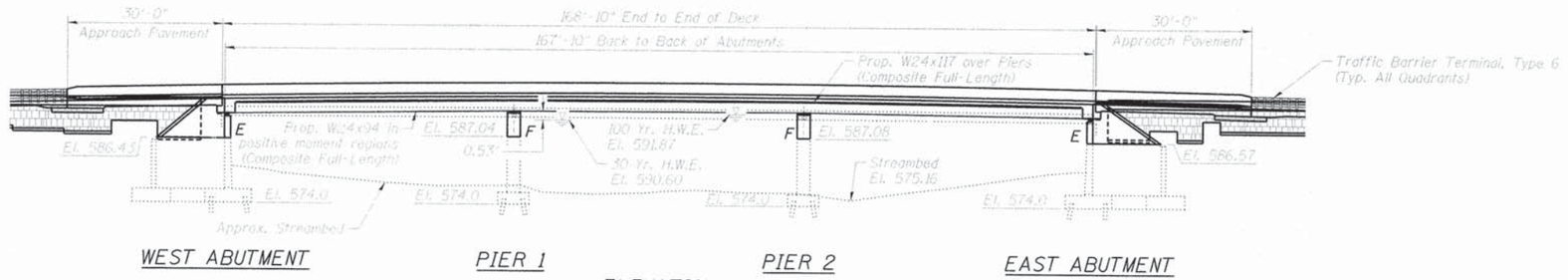
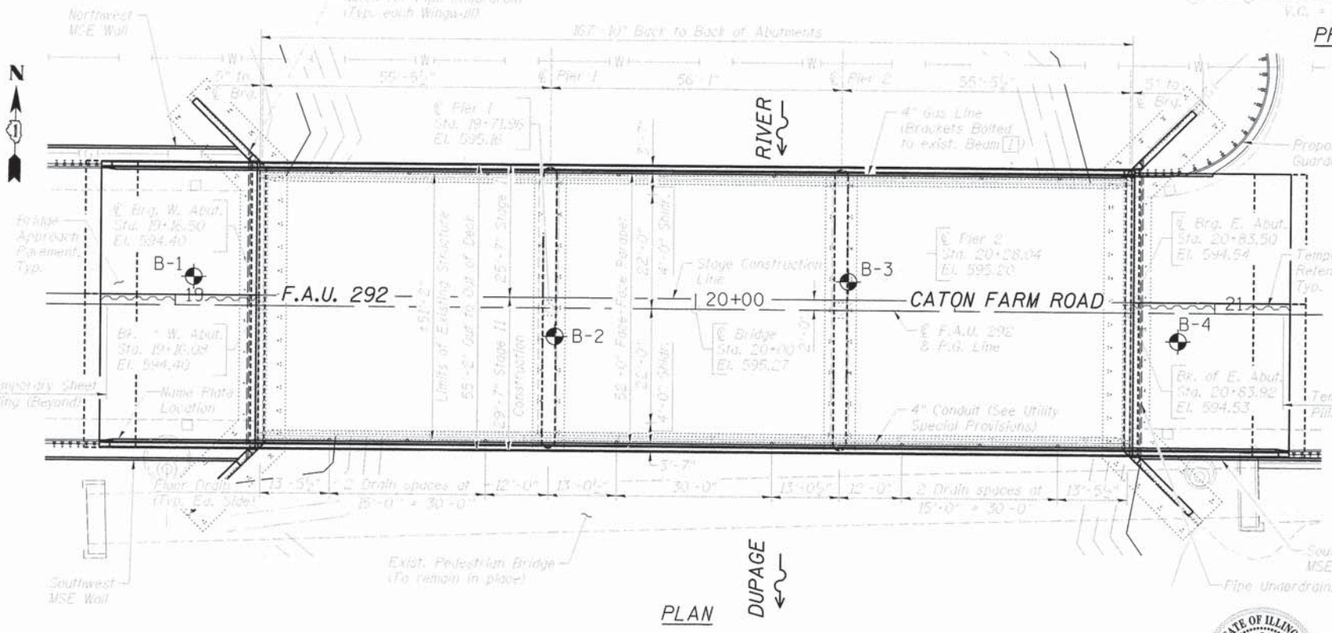
EXISTING STRUCTURE: S.N. 099-3323
Originally built in 1982 as F.A.S. 300, Section 78-00074-01-BR at Station 20+00. Structure consists of a 3 span (3 @ 56'-0") precast, prestressed, concrete deck beam bridge on reinforced, concrete solid piers and closed, reinforced concrete abutments. 167'-10" back to back of abutments. 51'-2" out to out of deck. Superstructure to be removed and replaced utilizing Stage Construction.

BENCH MARK #401: Chis. "□" on the Northeast wingwall of existing bridge, 26.91' Lt. of Sta. 20+84.70. El. 592.12



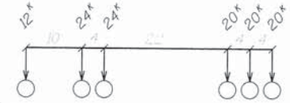
ELEVATION

PROFILE GRADE
(Along ℄ Roadway)



PLAN

INDEX OF STRUCTURAL SHEETS



120K PERMIT TRUCK CONFIGURATION

LOADING HL-93 & IDOT 120k PERMIT TRUCK

DESIGN SPECIFICATIONS

Design in accordance with AASHTO LRFD Bridge Design Specifications 6th Ed. with 2013 Interim Revisions

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.095 g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.168 g
Soil Site Class = D

DESIGN STRESSES

FIELD UNITS (NEW CONSTRUCTION)

f'c = 3,500 psi
fy = 50,000 psi (Structural Steel)
fy = 60,000 psi (Reinforcement)

FIELD UNITS (EXIST. CONSTRUCTION)

f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)

DUPAGE RIVER
RE-BUILT 2016 BY
CITY OF JOLIET
SECTION 09-00425-00-BR
F.A.U. RTE. 292 STATION 20+00
STR. NO. 099-3323 LOADING HL-93

NAME PLATE LETTERING

Refer To Std. 515001
Existing Name ℄ shall be Sealed and relocated next to new Name Plate. Cost Included with Name Plate's.

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation - ft.	W. Abut.*	Pier 1*	Pier 2*	E. Abut.*
	554.6	554.4	554.9	556.5

*Top of Rock Elevation

WATERWAY INFORMATION

Drainage Area = 314 sq. mi. Prop. Low Grade El. 580.01 @ Sta. 24+00

Flood	Freq. Yr.	Q c.f.s.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Hyd. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	6,315	1,948	1,948	589.84	0.53	0.42	590.37	590.26
Design	50	10,500	2,069	2,070	590.60	0.58	0.29	590.96	590.89
Base	100	13,443	2,093	2,249	591.87	0.33	0.26	592.20	592.13
Max	500	17,800	2,093	2,262	592.93	0.76	0.18	593.29	593.11

STATE OF ILLINOIS
BRIAN K. CONVERSE
081-005213
DIXON, IL
LICENSED STRUCTURAL ENGINEER
Brian K. Converse
9/22/2015
DATE
EXPIRES: 11/30/2016

"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 Complies With Requirements Of The Current AASHTO Standard Specifications For Highway Bridges."

LOCATION SKETCH

GENERAL PLAN AND ELEVATION
CATON FARM ROAD OVER DUPAGE RIVER
F.A.U. ROUTE 292
SEC. 09-00425-00-BR
CITY OF JOLIET STATION 20+00.00
STRUCTURE NO. 099-3323

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T. 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED	PETER PASCUA	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -
DRAWN	RON ALLEN	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL SHEET NO. 1 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	24
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT (BHM-9003(658)			

GENERAL NOTES:

Fasteners shall be ASTM A325 Type 3, mechanically galvanized bolts. Bolts $\frac{7}{8}$" ϕ, holes $\frac{15}{16}$" ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 172,470 lbs.

All structural steel shall be AASHTO M 270 Grade 50.

All structural steel shall be galvanized per ASTM A123/A123M-13 and AASHTO M111. See Special Provisions for Hot Dip Galvanizing for Structural Steel.

Painting of galvanized structural steel is **NOT** specified for this project.

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 $\frac{1}{8}$" (0.01'). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Existing vertical reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal. See Special Provisions.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The work covered by this contract includes no discharge or fill into the Waters of the United States and disturbs no wetlands. The Contractor shall obtain permit(s) for any work to be performed in-stream that is not included in these plans or special provisions.

Concrete Removal of the existing abutments and piers shall be executed with the use of defined saw cuts. The use of drilling or other means of pier splitting shall not be allowed. The Contractor's Structural Assessment Report for Means and Methods shall define the removal line appropriately and provide a method that employs the use of saw cutting.

The existing piers and abutments below the proposed removal lines shall remain in place during Stage I and II Construction. The Contractor may substitute a temporary support system to facilitate construction. The use of a temporary system shall be executed according to the General Bridge Specifications Standard Assessment Report for Contractors means and methods.

The Contractor is advised that the existing structure contains prestressed precast deck beams that are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for the complete or partial removal, or replacement of the structure. An Existing Structure Information Package is available upon request as noted in the Special Provisions.

The Contractor shall retain the services of an Engineering Firm, pre qualified in the IDOT consultant selection category of Highway Bridges (Advanced Typical), for preparation of the Structural Assessment Report. Contractor's pre-approval shall not be applicable for the project. See Special Provisions.

Current Ratings on File for Existing Structure
Inventory: HS 7.0
Operating: HS 11.7
Live Load Restrictions: 18 Tons
Inventory and Operating Ratings are provided for information only. Inventory and Operating Ratings are based on HS loading and configuration. The Ratings are not necessarily representative of capacities to support the Contractor's equipment.

BILL OF MATERIAL - BRIDGE

	ITEM	UNIT	SUPER.	SUB.	TOTAL
	Removal Of Existing Superstructures	Each	1	———	1
*	Concrete Removal	Cu. Yd.	76.0	———	76.0
	Structure Excavation	Cu. Yd.	———	341.4	341.4
	Floor Drains	Each	16	———	16
*	Concrete Structures	Cu. Yd.	———	133.2	133.2
	Concrete Superstructure	Cu. Yd.	469.3	———	469.3
	Bridge Deck Grooving	Sq. Yd.	1,273	———	1,273
	Protective Coat	Sq. Yd.	1,465	———	1,465
	Furnishing And Erecting Structural Steel	L. Sum	1	———	1
	Stud Shear Connectors	Each	4,992	———	4,992
	Reinforcement Bars, Epoxy Coated	Pound	118,040	17,620	135,660
	Bar Splicers	Each	702	152	854
	Name Plates	Each	1	———	1
	Elastomeric Bearing Assembly, Type 1	Each	16	———	16
	Anchor Bolts, $\frac{3}{4}$"	Each	64	———	64
	Epoxy Crack Injection	Foot	———	131	131
	Geocomposite Wall Drain	Sq. Yd.	———	76	76
*	Granular Backfill For Structures	Cu. Yd.	———	151.5	151.5
*	Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	———	537.0	537.0
*	Temporary Sheet Piling	Sq. Ft.	———	1,150	1,150
*	Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	———	1,075	1,075
*	Pipe Underdrains For Structures 4"	Foot	———	118	118
*	Temporary Soil Retention System	Sq. Ft.	———	120	120

*See Special Provisions

GENERAL DATA
CATON FARM ROAD OVER DUPAGE RIVER
F.A.U. ROUTE 292
SEC. 09-00425-00-BR
CITY OF JOLIET STATION 20+00.00
STRUCTURE NO. 099-3323

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED	PETER PASCUA	REVISED
CHECKED	BRIAN CONVERSE	REVISED
DRAWN	RON ALLEN	REVISED
CHECKED	BRIAN CONVERSE	REVISED

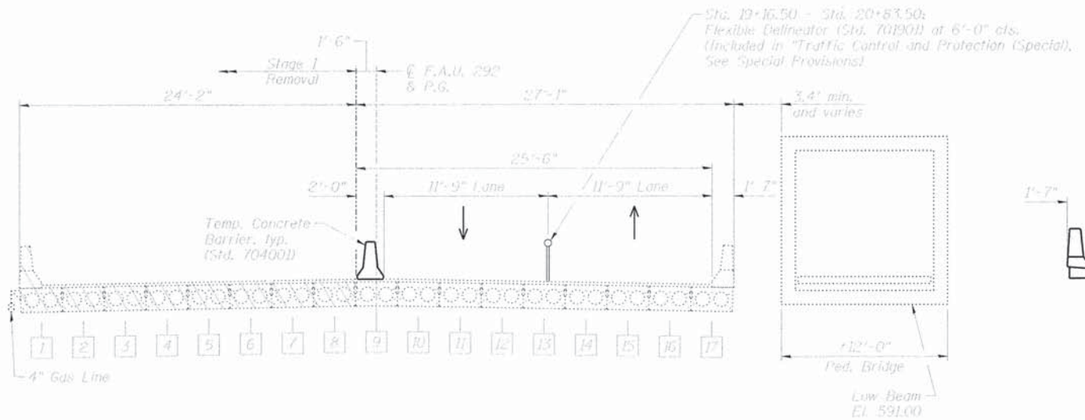
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL SHEET NO. 2 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	25
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

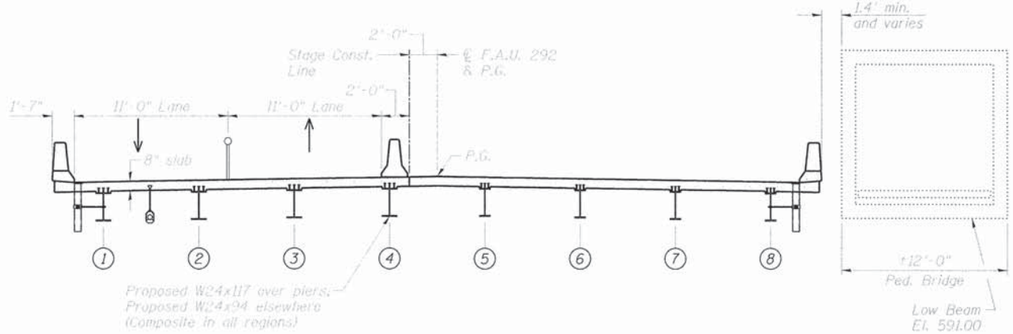
GENERAL CONSTRUCTION SEQUENCE

1. Execute Stage I Traffic Plan & Relocate/Brace Utilities as required
2. Install Temporary Sheet Piling and Temporary Soil Retention System
3. Remove Existing PPC Deck Beams [1]-[8], North Parapet, and Portions of Existing Wingwalls/Abutments/Piers
4. Repair Spalled Vertical Faces of Abutments and Piers
5. Construct Proposed Abutments, Piers, MSE Walls, and Install Proposed Bearings at Piers and Abutments
6. Erect Proposed Steel Superstructure (Beams (1)-(4) and Deck & Parapet) and Construct Stage I Roadway Items
7. Repeat 1-6 for Stage II, including Existing Beams [9]-[17], Proposed Beams (5)-(8), and South Parapet



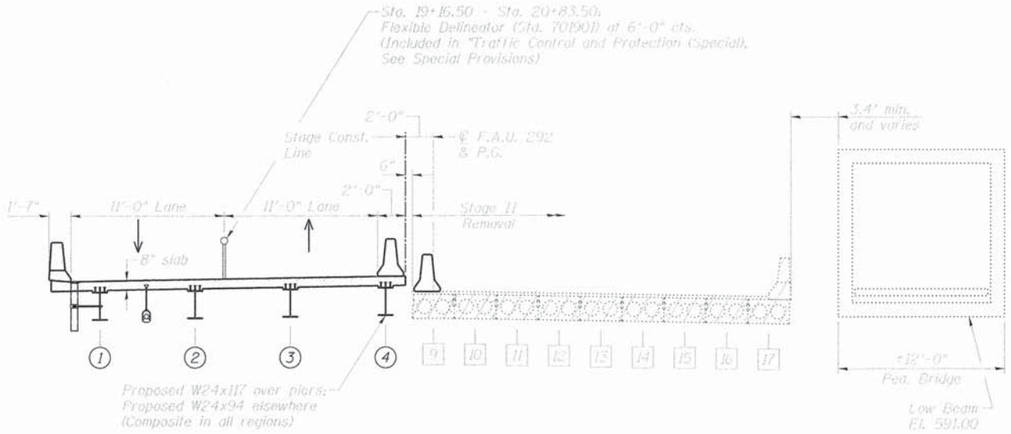
STAGE I REMOVAL

(Looking East)



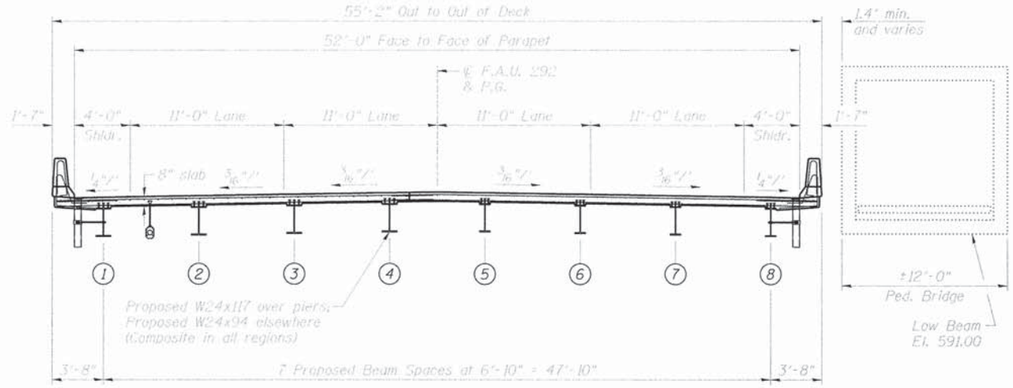
STAGE II CONSTRUCTION

(Looking East)



STAGE I CONSTRUCTION & STAGE II REMOVAL

(Looking East)



PROPOSED STRUCTURE

(Looking East)

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED -	PETER PASCUA	REVISED
CHECKED -	BRIAN CONVERSE	REVISED
DRAWN -	RON ALLEN	REVISED
CHECKED -	BRIAN CONVERSE	REVISED

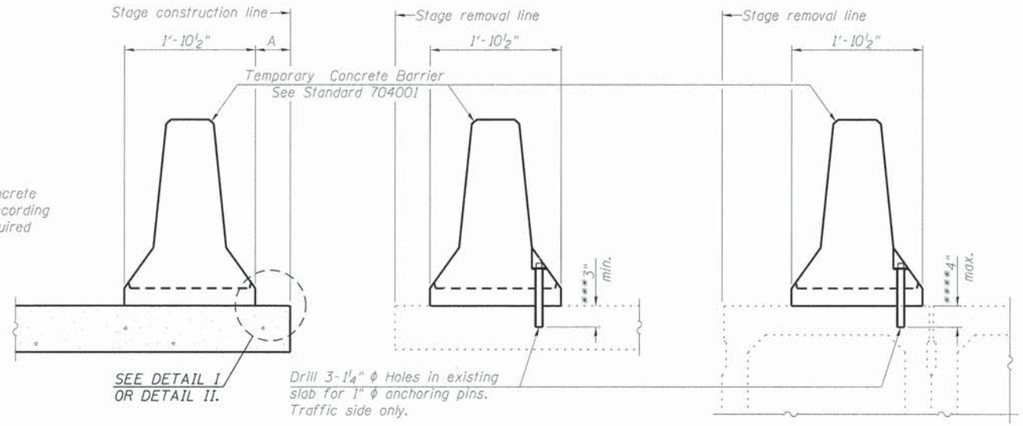
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS
STRUCTURE NO. 099-3323

STRUCTURAL SHEET NO. 3 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	26
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

When "A" is 3'-1" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-1".



NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x"W" steel ℄ to the top layer of couplers with 2-⅝" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x"W" steel ℄ to the concrete slab or concrete wearing surface with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

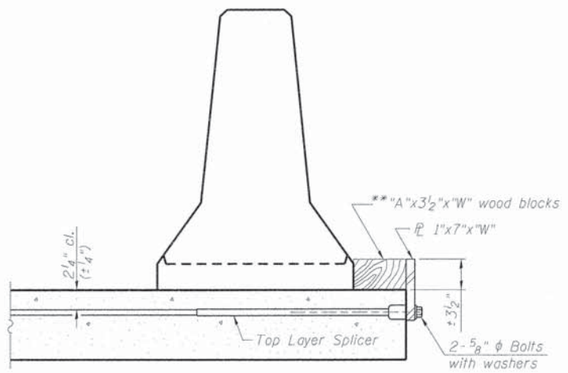
Cost of retainer assembly is included with Temporary Concrete Barrier.

The 1"x7"x"W" ℄ shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

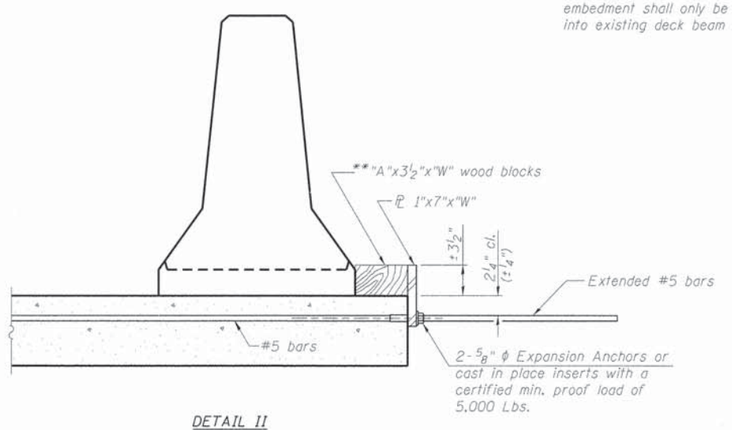
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.

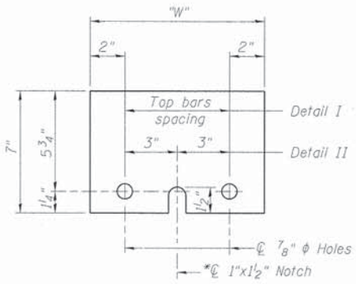


DETAIL I



DETAIL II

RETAINER ASSEMBLY



STEEL RETAINER ℄ 1" x 7" x "W"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer ℄.

FILE = S:\PROJECTS\2014\1304D14_Jolies\DESIGN\STRUCTURE\2D_Drawings\1304D14_Temporary Concrete Barrier For Stage Construction.dgn

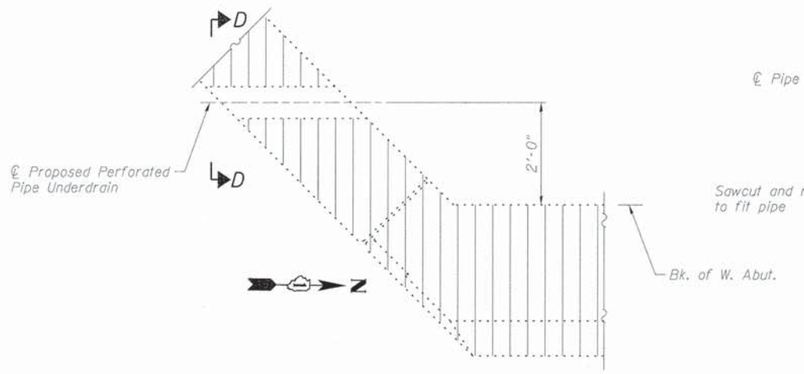
WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3351 DESIGN FIRM: #184-000915

DESIGNED	- PETER PASCUA	REVISED	-
CHECKED	- BRIAN CONVERSE	REVISED	-
DRAWN	- RON ALLEN	REVISED	-
CHECKED	- BRIAN CONVERSE	REVISED	-

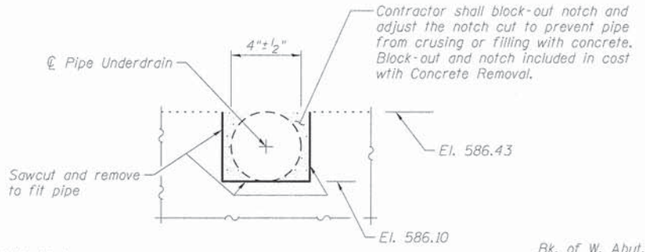
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 4 OF 37 SHEETS

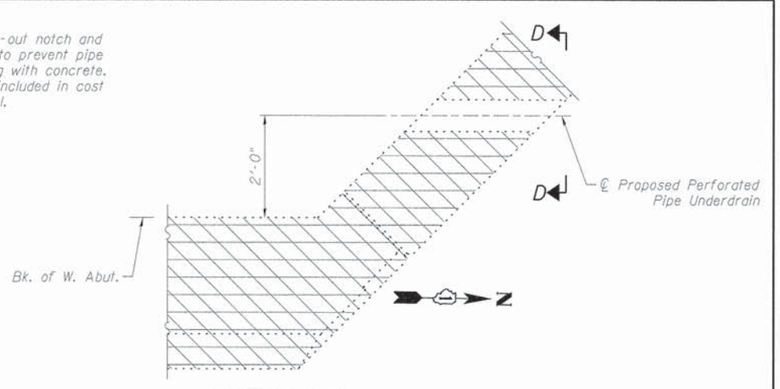
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	27
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



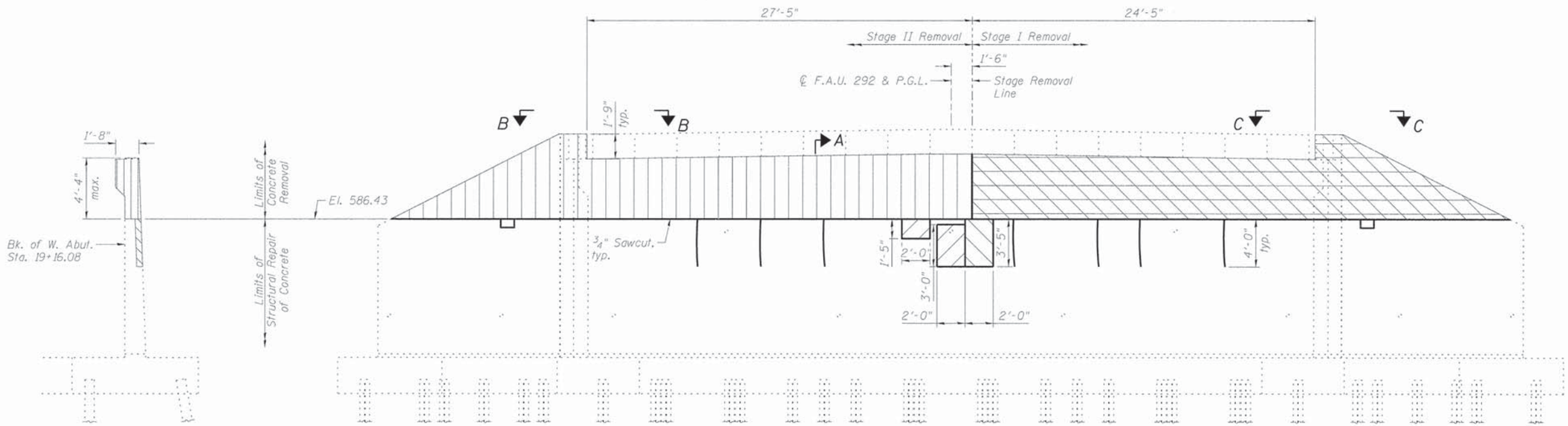
SECTION B-B



SECTION D-D: NOTCH



SECTION C-C



SECTION A-A

A

ELEVATION VIEW
(Looking West)

LEGEND:

- Stage I Structural Repair of Concrete (Depth Equal to or less than 5 Inches)
- Stage II Structural Repair of Concrete (Depth Equal to or less than 5 Inches)
- Stage I Concrete Removal
- Stage II Concrete Removal
- Epoxy Crack Injection

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	18.1
Epoxy Crack Injection	Foot	28
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	15.7

NOTE:

All saw cuts shall be to such a depth that when concrete is removed, a clean, neat edge will result with no spalling of the remaining concrete. Saw cuts cost included with "Concrete Removal."

For proposed underdrain and drainage components, see Structural Sheet 22 of 37.

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

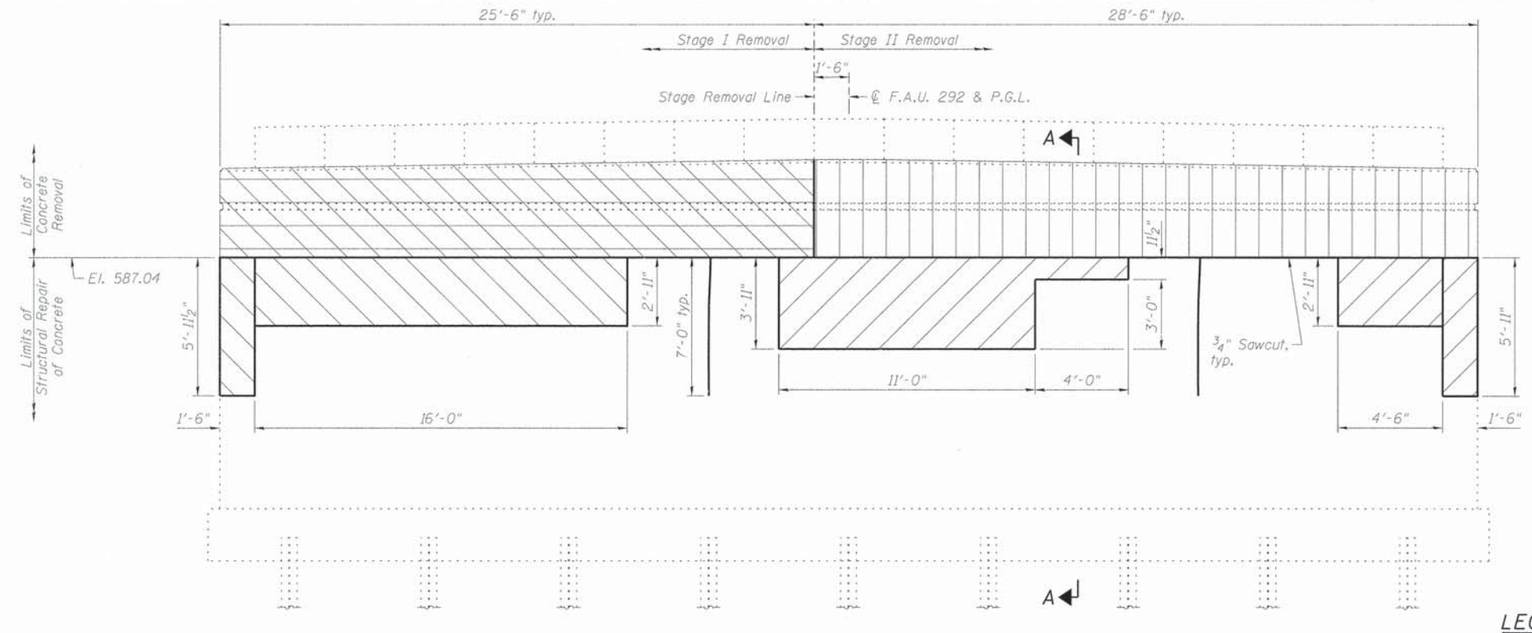
DESIGNED - PETER PASCUA	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	
DRAWN - RON ALLEN	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

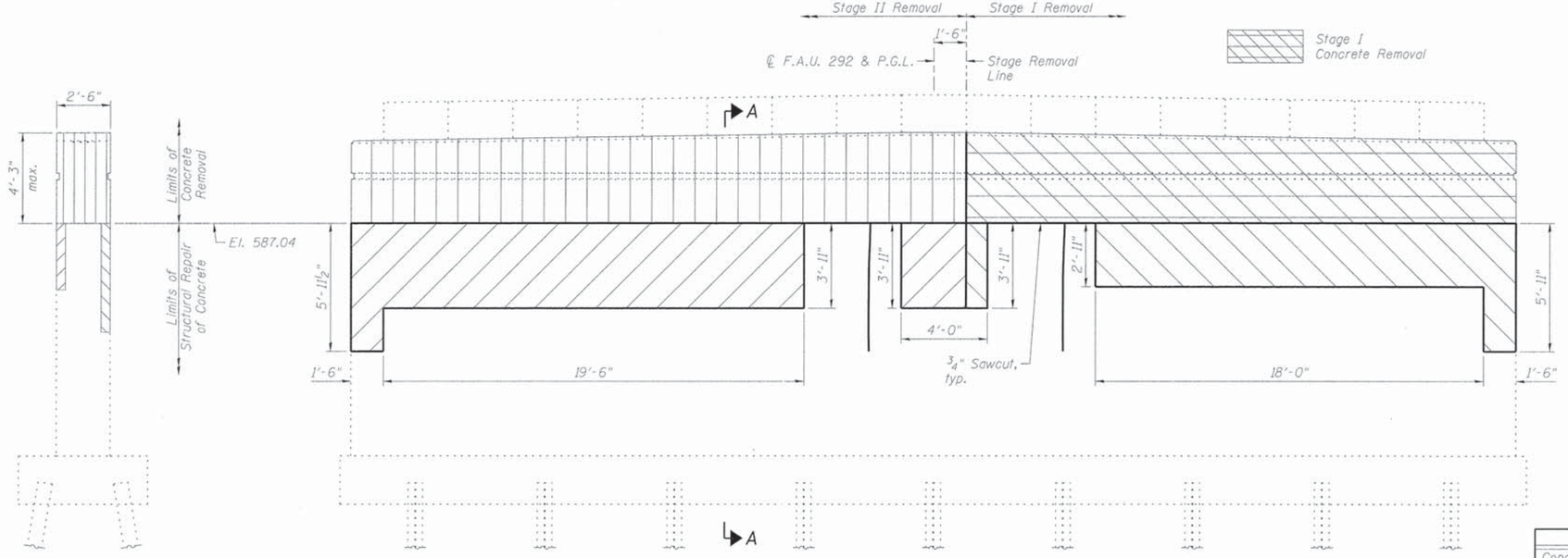
WEST ABUTMENT REMOVAL DETAILS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 5 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	28
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

FILE = S:\PROJECTS\2014\1304014_Joliet\DESIGN\STRUCT\2D_Drawings\1304014_West Abutment Removal Details.dgn



ELEVATION VIEW
(Looking East)



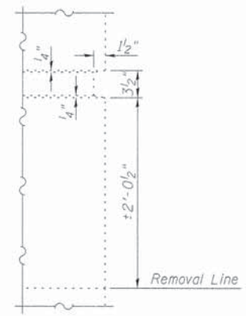
SECTION A-A

ELEVATION VIEW
(Looking West)

NOTE:
All saw cuts shall be to such a depth that when concrete is removed, a clean, neat edge will result with no spalling of the remaining concrete. Saw cuts cost included with "Concrete Removal."

LEGEND:

- Stage I Structural Repair of Concrete (Depth Equal to or less than 5 Inches)
- Stage II Structural Repair of Concrete (Depth Equal to or less than 5 Inches)
- Stage I Concrete Removal
- Stage II Concrete Removal
- Epoxy Crack Injection



NOTCH DETAIL

BILL OF MATERIAL - PIER #1

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	20.9
Epoxy Crack Injection	Foot	28
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	303.8

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

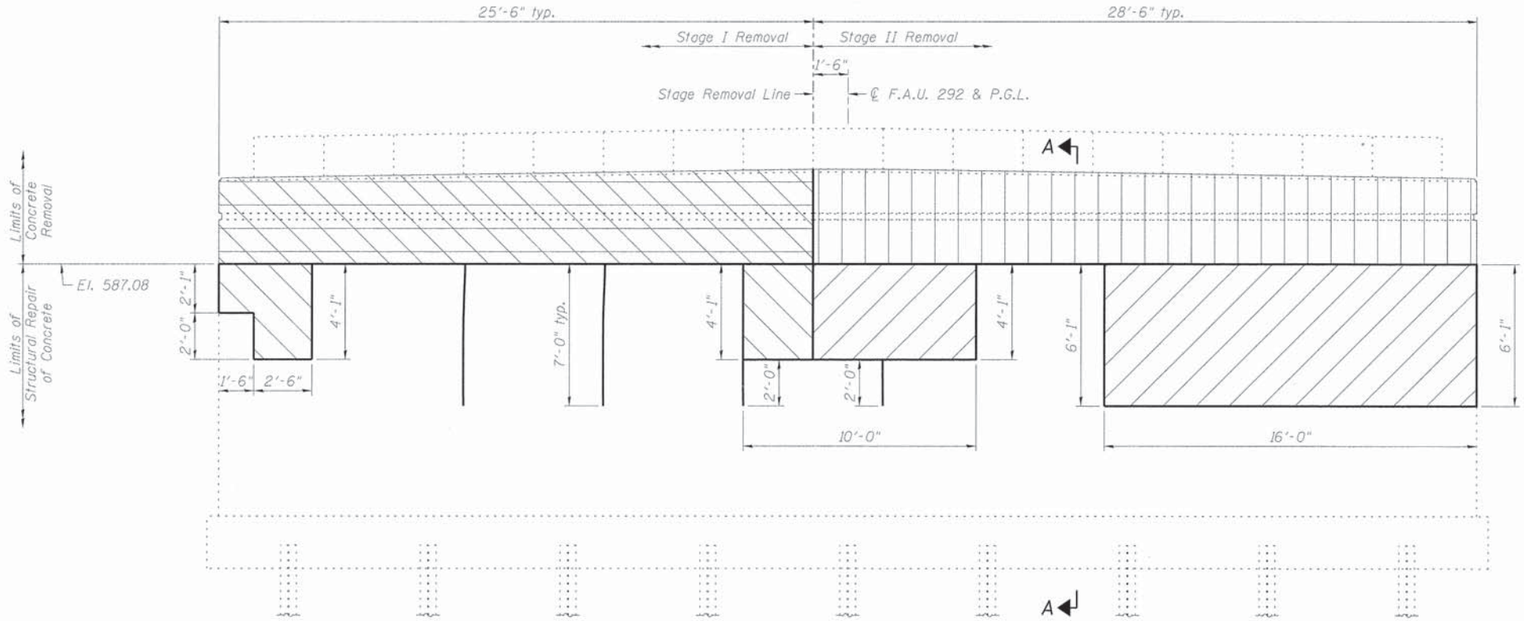
DESIGNED - PETER PASCUA	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	
DRAWN - RON ALLEN	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER #1 REMOVAL DETAILS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 6 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	29
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

FILE: S:\PROJECTS\2014\1304D14_Joliet\DESIGN\STRUCT\2D_Drawings\1304D14_Pier 1 Removal Details.dgn

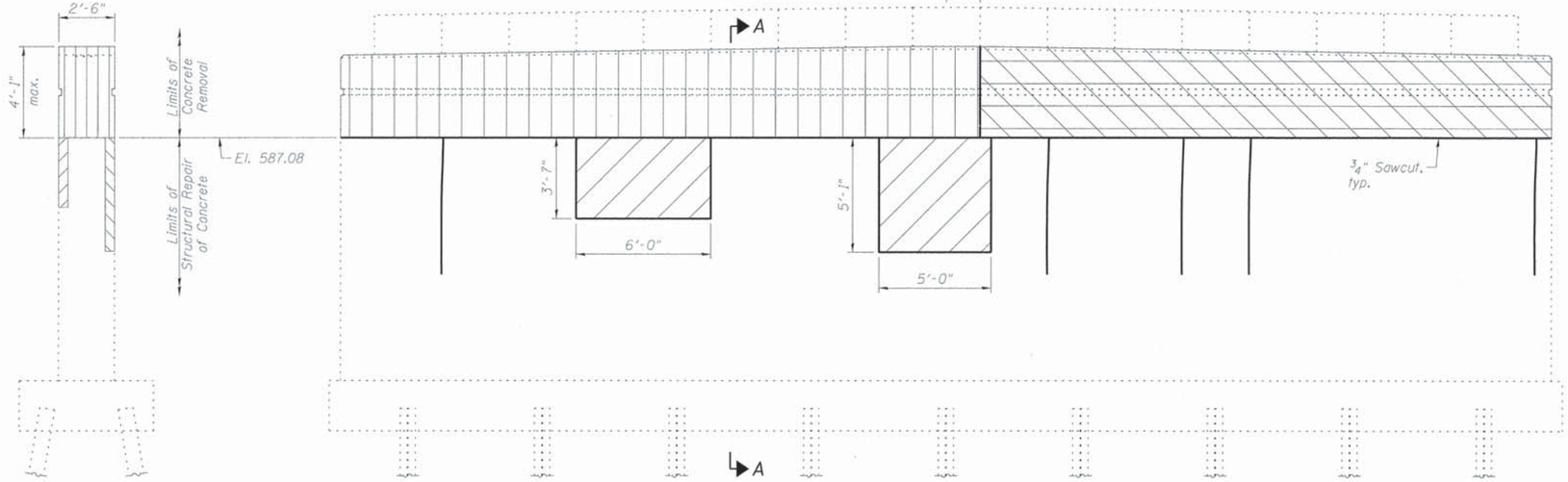


ELEVATION VIEW
(Looking East)

NOTE:
All saw cuts shall be to such a depth that when concrete is removed, a clean, neat edge will result with no spalling of the remaining concrete. Saw cuts cost included with "Concrete Removal."

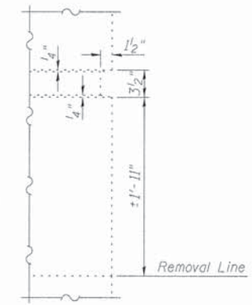
LEGEND:

- Stage I Structural Repair of Concrete (Depth Equal to or less than 5 Inches)
- Stage II Structural Repair of Concrete (Depth Equal to or less than 5 Inches)
- Stage I Concrete Removal
- Stage II Concrete Removal
- Epoxy Crack Injection



SECTION A-A

ELEVATION VIEW
(Looking West)



NOTCH DETAIL

BILL OF MATERIAL - PIER #2

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	20.2
Epoxy Crack Injection	Foot	53
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	206.3

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000915

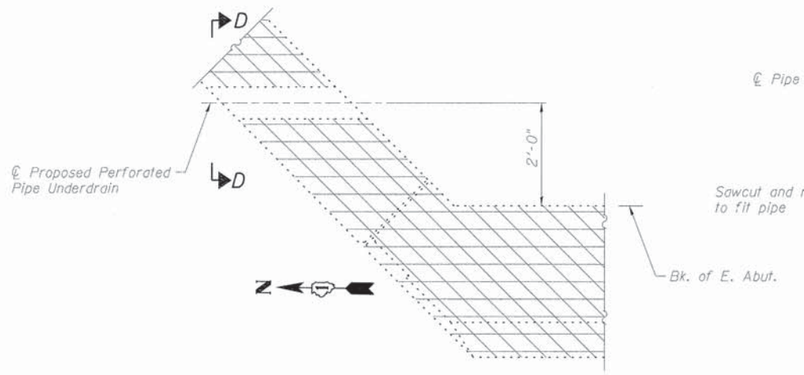
DESIGNED	PETER PASCUA	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -
DRAWN	RON ALLEN	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

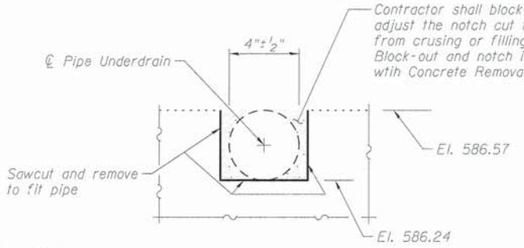
PIER #2 REMOVAL DETAILS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 7 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	30
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

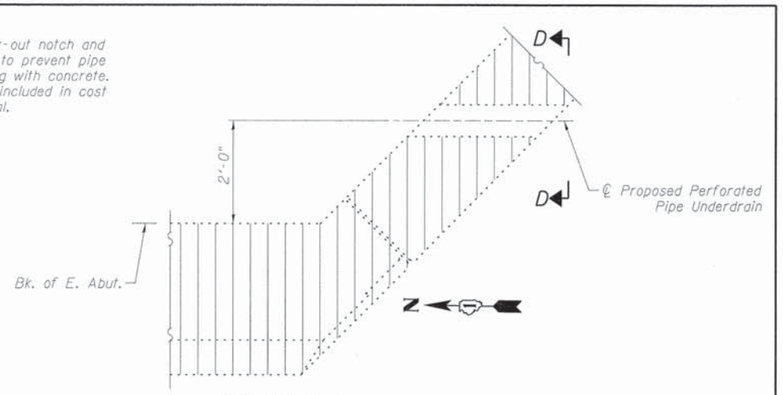
FILE = S:\PROJECTS\2014\1304D14_Joliet\DESIGN\STRUCT\2D_Drawings\1304D14_Pier 2 Removal Details.dgn



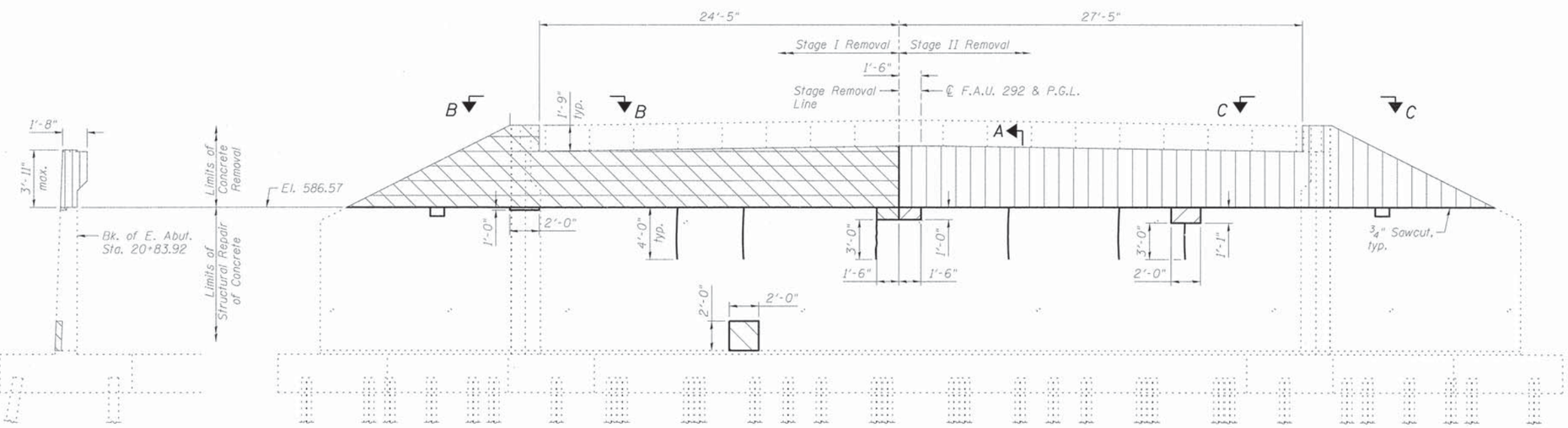
SECTION B-B



SECTION D-D: NOTCH



SECTION C-C



SECTION A-A

ELEVATION VIEW
(Looking East)

LEGEND:

- Stage I Structural Repair of Concrete (Depth Equal to or less than 5 Inches)
- Stage II Structural Repair of Concrete (Depth Equal to or less than 5 Inches)
- Stage I Concrete Removal
- Stage II Concrete Removal
- Epoxy Crack Injection

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	16.8
Epoxy Crack Injection	Foot	22
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	11.2

NOTE:

All saw cuts shall be to such a depth that when concrete is removed, a clean, neat edge will result with no spalling of the remaining concrete. Saw cuts cost included with "Concrete Removal."

For proposed underdrain and drainage components, see Structural Sheet 24 of 37.

WILLETT HOFMANN & ASSOCIATES, INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

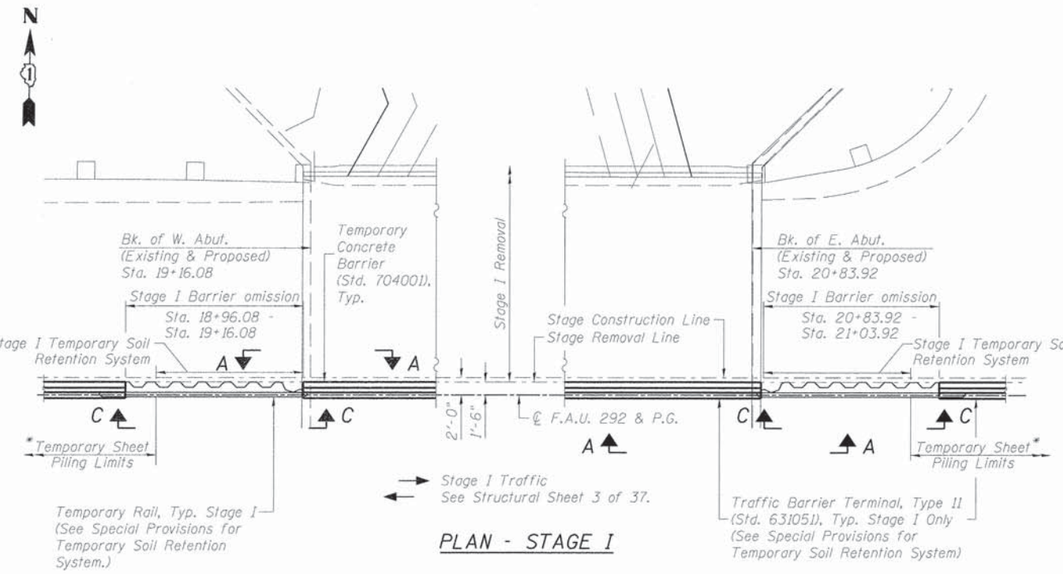
DESIGNED - PETER PASCUA	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	
DRAWN - RON ALLEN	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

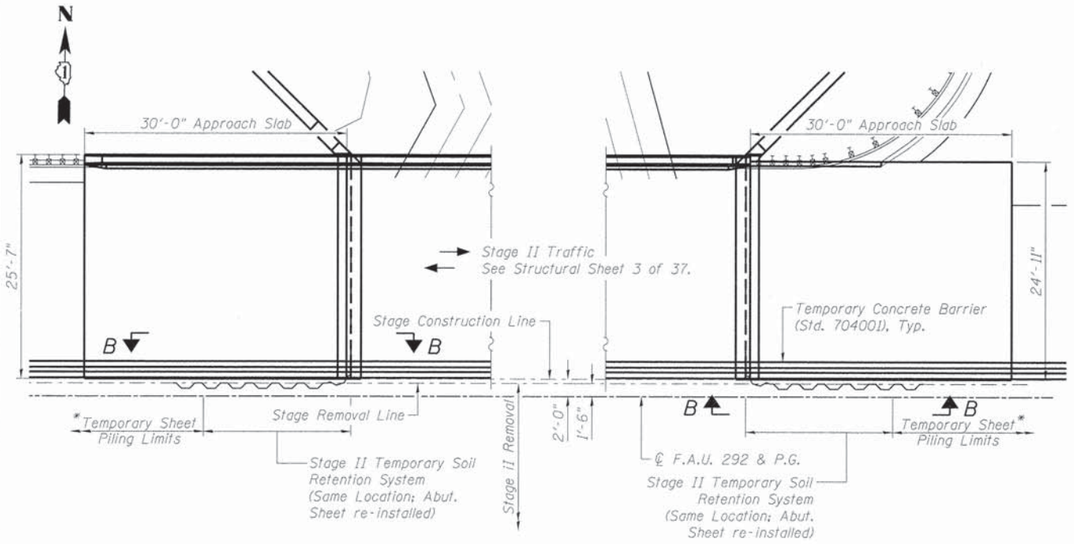
EAST ABUTMENT REMOVAL DETAILS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 8 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	31
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

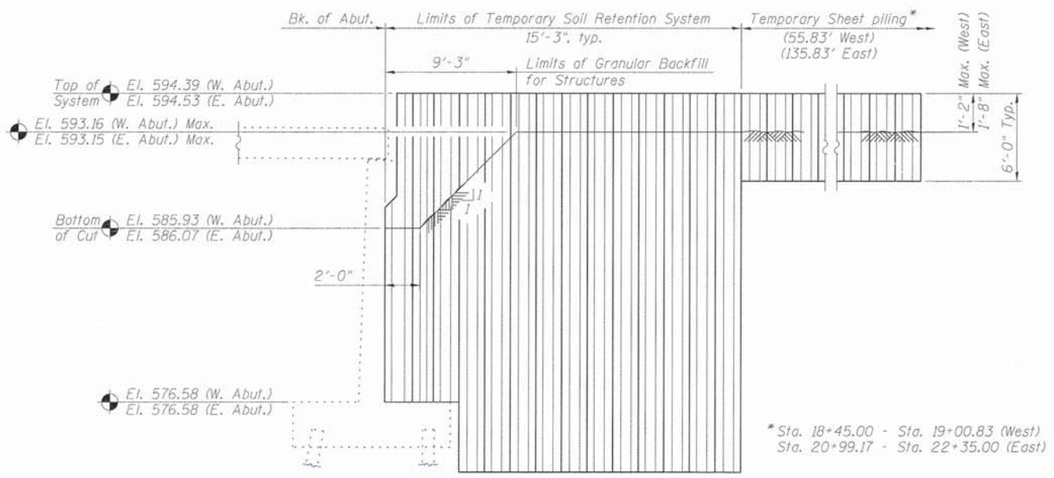
FILE = S:\PROJECTS\2014\1304D14 Joliet\DESIGN\STRUCTURE\Drawings\1304D14_East Abutment Removal Details.dgn



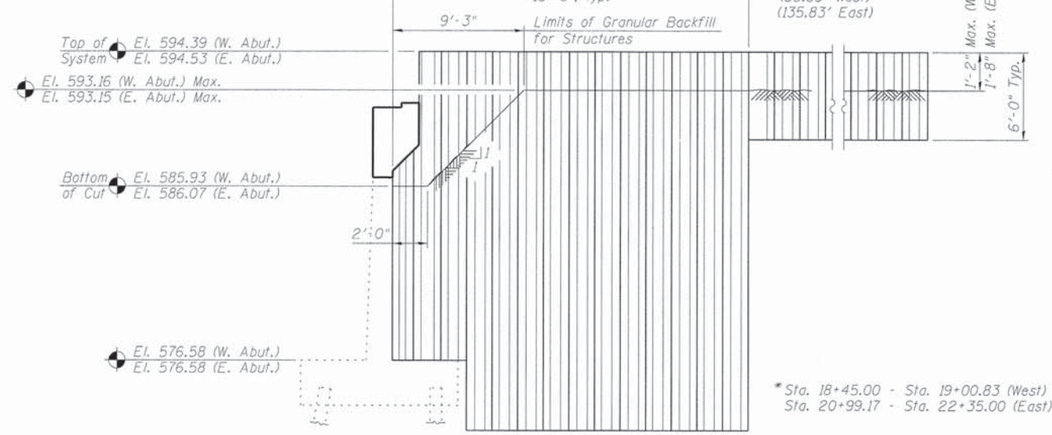
PLAN - STAGE I



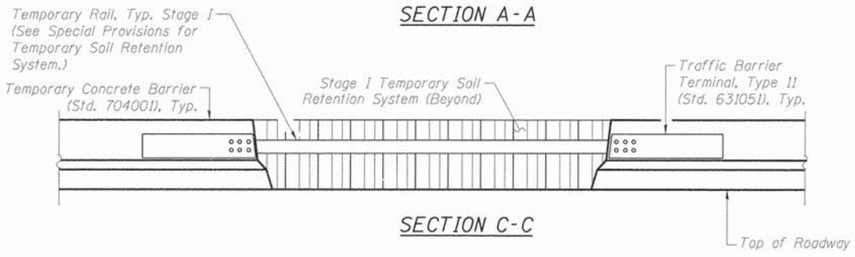
PLAN - STAGE II



SECTION A-A



SECTION B-B



SECTION C-C

NOTES:

Temporary sheet piling shall have a minimum section modulus of 18.1 $in.^3/ft.$ of wall.

See Structural Sheet 32 of 37 for existing borings. Current backfill is porous granular material (Max. $\phi = 30°$).

A Temporary rail is required with Stage I system. See Special Provisions for Temporary Soil Retention System.

A cantilevered sheet piling design does not appear feasible for Temporary Soil Retention System Sheets directly behind the Back of Abutment. Additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer. See Special Provisions.

BILL OF MATERIAL

Item	Unit	Quantity
Temporary Sheet Piling	Sq. Ft.	1,150
Temporary Soil Retention System	Sq. Ft.	120

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

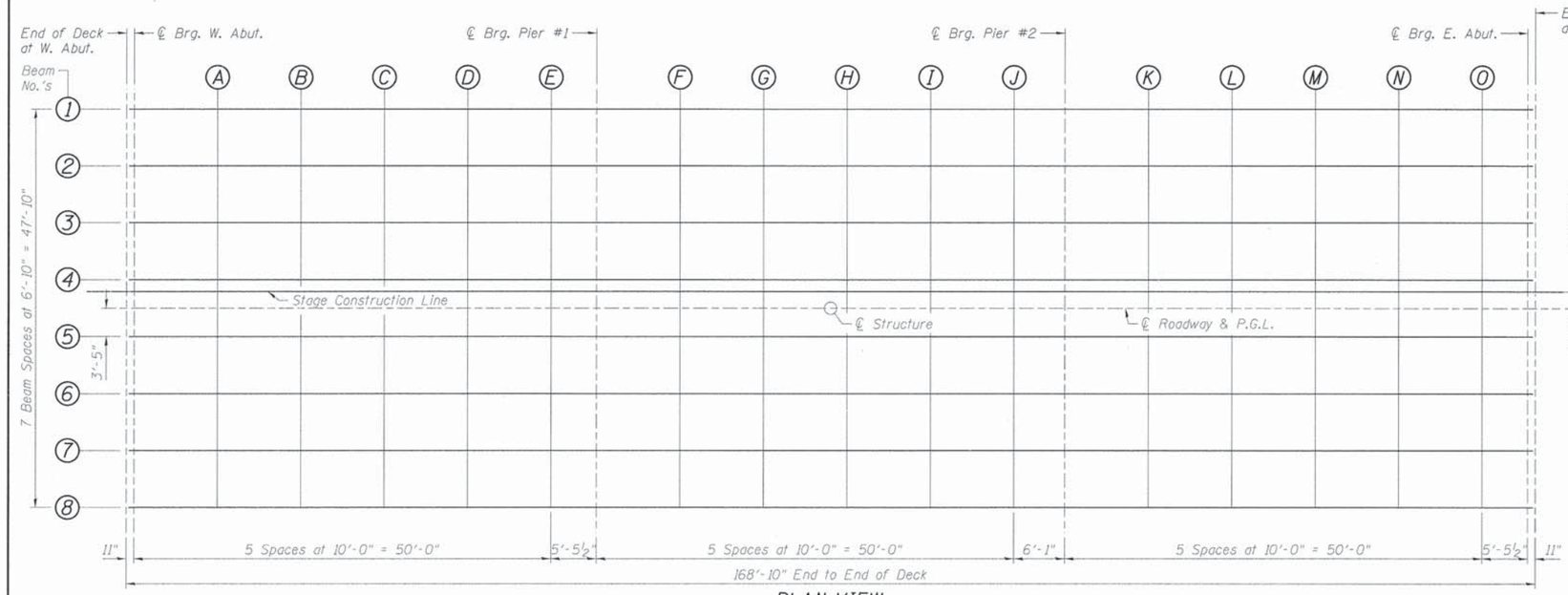
DESIGNED	- PETER PASCUA	REVISED -
CHECKED	- BRIAN CONVERSE	REVISED -
DRAWN	- RON ALLEN	REVISED -
CHECKED	- BRIAN CONVERSE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

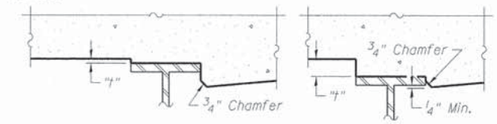
TEMPORARY SOIL RETENTION SYSTEM & TEMPORARY SHEET PILING
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 9 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	32
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT (BHM-9003(658)			

FILE = S:\PROJECTS\2014\1304014 Joliet\DESIGN\STRUCT\2D_Drawings\1304014_Temporary Soil Retention System.dgn

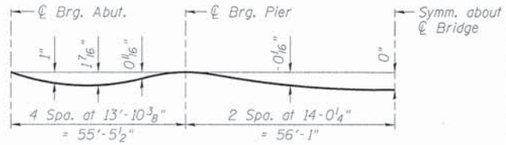


PLAN VIEW



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

FILLET HEIGHTS



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 above.

N

BEAM 1

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	19+15.58	23.92	594.00	594.00
℄ Brg. W. Abut.	19+16.50	23.92	594.02	594.02
A	19+26.50	23.92	594.20	594.27
B	19+36.50	23.92	594.37	594.47
C	19+46.50	23.92	594.51	594.61
D	19+56.50	23.92	594.63	594.69
E	19+66.50	23.92	594.72	594.73
℄ Brg. Pier #1	19+71.96	23.92	594.77	594.77
F	19+81.96	23.92	594.83	594.82
G	19+91.96	23.92	594.87	594.87
H	20+01.96	23.92	594.88	594.88
I	20+11.96	23.92	594.87	594.87
J	20+21.96	23.92	594.84	594.83
℄ Brg. Pier #2	20+28.04	23.92	594.81	594.81
K	20+38.04	23.92	594.74	594.78
L	20+48.04	23.92	594.65	594.74
M	20+58.04	23.92	594.54	594.64
N	20+68.04	23.92	594.41	594.49
O	20+78.04	23.92	594.25	594.28
℄ Brg. E. Abut.	20+83.50	23.92	594.15	594.15
E. End of Deck	20+84.42	23.92	594.13	594.13

BEAM 2

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	19+15.58	17.08	594.12	594.12
℄ Brg. W. Abut.	19+16.50	17.08	594.14	594.14
A	19+26.50	17.08	594.32	594.39
B	19+36.50	17.08	594.49	594.59
C	19+46.50	17.08	594.63	594.73
D	19+56.50	17.08	594.75	594.81
E	19+66.50	17.08	594.84	594.85
℄ Brg. Pier #1	19+71.96	17.08	594.89	594.89
F	19+81.96	17.08	594.95	594.94
G	19+91.96	17.08	594.99	594.99
H	20+01.96	17.08	595.00	595.00
I	20+11.96	17.08	594.99	594.99
J	20+21.96	17.08	594.96	594.93
℄ Brg. Pier #2	20+28.04	17.08	594.93	594.93
K	20+38.04	17.08	594.86	594.90
L	20+48.04	17.08	594.77	594.86
M	20+58.04	17.08	594.66	594.76
N	20+68.04	17.08	594.53	594.61
O	20+78.04	17.08	594.37	594.40
℄ Brg. E. Abut.	20+83.50	17.08	594.27	594.27
E. End of Deck	20+84.42	17.08	594.25	594.25

BEAM 3

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	19+15.58	10.25	594.23	594.23
℄ Brg. W. Abut.	19+16.50	10.25	594.24	594.24
A	19+26.50	10.25	594.43	594.49
B	19+36.50	10.25	594.60	594.69
C	19+46.50	10.25	594.74	594.83
D	19+56.50	10.25	594.86	594.92
E	19+66.50	10.25	594.94	594.96
℄ Brg. Pier #1	19+71.96	10.25	594.99	594.99
F	19+81.96	10.25	595.05	595.05
G	19+91.96	10.25	595.09	595.09
H	20+01.96	10.25	595.11	595.11
I	20+11.96	10.25	595.10	595.10
J	20+21.96	10.25	595.07	595.06
℄ Brg. Pier #2	20+28.04	10.25	595.04	595.04
K	20+38.04	10.25	594.97	595.01
L	20+48.04	10.25	594.88	594.96
M	20+58.04	10.25	594.77	594.87
N	20+68.04	10.25	594.63	594.72
O	20+78.04	10.25	594.47	594.51
℄ Brg. E. Abut.	20+83.50	10.25	594.38	594.38
E. End of Deck	20+84.42	10.25	594.36	594.36

BEAM 4

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	19+15.58	3.42	594.33	594.33
℄ Brg. W. Abut.	19+16.50	3.42	594.35	594.35
A	19+26.50	3.42	594.54	594.60
B	19+36.50	3.42	594.70	594.80
C	19+46.50	3.42	594.84	594.94
D	19+56.50	3.42	594.96	595.03
E	19+66.50	3.42	595.05	595.07
℄ Brg. Pier #1	19+71.96	3.42	595.10	595.10
F	19+81.96	3.42	595.16	595.15
G	19+91.96	3.42	595.20	595.20
H	20+01.96	3.42	595.21	595.22
I	20+11.96	3.42	595.21	595.20
J	20+21.96	3.42	595.18	595.17
℄ Brg. Pier #2	20+28.04	3.42	595.15	595.15
K	20+38.04	3.42	595.08	595.12
L	20+48.04	3.42	594.99	595.07
M	20+58.04	3.42	594.88	594.99
N	20+68.04	3.42	594.74	594.83
O	20+78.04	3.42	594.58	594.62
℄ Brg. E. Abut.	20+83.50	3.42	594.48	594.48
E. End of Deck	20+84.42	3.42	594.47	594.47

STAGE CONSTRUCTION LINE

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	19+15.58	2.00	594.35	594.35
℄ Brg. W. Abut.	19+16.50	2.00	594.37	594.37
A	19+26.50	2.00	594.56	594.62
B	19+36.50	2.00	594.72	594.82
C	19+46.50	2.00	594.87	594.96
D	19+56.50	2.00	594.98	595.05
E	19+66.50	2.00	595.06	595.09
℄ Brg. Pier #1	19+71.96	2.00	595.12	595.12
F	19+81.96	2.00	595.18	595.18
G	19+91.96	2.00	595.22	595.22
H	20+01.96	2.00	595.24	595.24
I	20+11.96	2.00	595.23	595.22
J	20+21.96	2.00	595.20	595.19
℄ Brg. Pier #2	20+28.04	2.00	595.17	595.17
K	20+38.04	2.00	595.10	595.14
L	20+48.04	2.00	595.01	595.09
M	20+58.04	2.00	594.90	595.00
N	20+68.04	2.00	594.76	594.85
O	20+78.04	2.00	594.60	594.60
℄ Brg. E. Abut.	20+83.50	2.00	594.51	594.51
E. End of Deck	20+84.42	2.00	594.49	594.49

CENTERLINE OF ROADWAY & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	19+15.58	0.00	594.39	594.39
℄ Brg. W. Abut.	19+16.50	0.00	594.40	594.40
A	19+26.50	0.00	594.59	594.65
B	19+36.50	0.00	594.76	594.85
C	19+46.50	0.00	594.90	594.99
D	19+56.50	0.00	595.02	595.08
E	19+66.50	0.00	595.10	595.12
℄ Brg. Pier #1	19+71.96	0.00	595.15	595.15
F	19+81.96	0.00	595.22	595.21
G	19+91.96	0.00	595.25	595.25
H	20+01.96	0.00	595.27	595.27
I	20+11.96	0.00	595.26	595.26
J	20+21.96	0.00	595.23	595.22
℄ Brg. Pier #2	20+28.04	0.00	595.20	595.20
K	20+38.04	0.00	595.13	595.17
L	20+48.04	0.00	595.04	595.12
M	20+58.04	0.00	594.93	595.03
N	20+68.04	0.00	594.79	594.88
O	20+78.04	0.00	594.63	594.67
℄ Brg. E. Abut.	20+83.50	0.00	594.54	594.54
E. End of Deck	20+84.42	0.00	594.52	594.52

BEAM 5

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	19+15.58	3.42	594.33	594.33
℄ Brg. W. Abut.	19+16.50	3.42	594.35	594.35
A	19+26.50	3.42	594.54	594.60
B	19+36.50	3.42	594.70	594.80
C	19+46.50	3.42	594.84	594.94
D	19+56.50	3.42	594.96	595.03
E	19+66.50	3.42	595.05	595.07
℄ Brg. Pier #1	19+71.96	3.42	595.10	595.10
F	19+81.96	3.42	595.16	595.15
G	19+91.96	3.42	595.20	595.20
H	20+01.96	3.42	595.21	595.22
I	20+11.96	3.42	595.21	595.20
J	20+21.96	3.42	595.18	595.17
℄ Brg. Pier #2	20+28.04	3.42	595.15	595.15
K	20+38.04	3.42	595.08	595.12
L	20+48.04	3.42	594.99	595.07
M	20+58.04	3.42	594.88	594.99
N	20+68.04	3.42	594.74	594.83
O	20+78.04	3.42	594.58	594.62
℄ Brg. E. Abut.	20+83.50	3.42	594.48	594.48
E. End of Deck	20+84.42	3.42	594.47	594.47

BEAM 6

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	19+15.58	10.25	594.23	594.23
℄ Brg. W. Abut.	19+16.50	10.25	594.24	594.24
A	19+26.50	10.25	594.43	594.49
B	19+36.50	10.25	594.60	594.69
C	19+46.50	10.25	594.74	594.83
D	19+56.50	10.25	594.86	594.92
E	19+66.50	10.25	594.94	594.96
℄ Brg. Pier #1	19+71.96	10.25	594.99	594.99
F	19+81.96	10.25	595.05	595.05
G	19+91.96	10.25	595.09	595.09
H	20+01.96	10.25	595.11	595.11
I	20+11.96	10.25	595.10	595.10
J	20+21.96	10.25	595.07	595.06
℄ Brg. Pier #2	20+28.04	10.25	595.04	595.04
K	20+38.04	10.25	594.97	595.01
L	20+48.04	10.25	594.88	594.96
M	20+58.04	10.25	594.77	594.87
N	20+68.04	10.25	594.63	594.72
O	20+78.04	10.25	594.47	594.51
℄ Brg. E. Abut.	20+83.50	10.25	594.38	594.38
E. End of Deck	20+84.42	10.25	594.36	594.36

BEAM 7

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	19+15.58	17.08	594.12	594.12
℄ Brg. W. Abut.	19+16.50	17.08	594.14	594.14
A	19+26.50	17.08	594.32	594.39
B	19+36.50	17.08	594.49	594.59
C	19+46.50	17.08	594.63	594.73
D	19+56.50	17.08	594.75	594.81
E	19+66.50	17.08	594.84	594.85
℄ Brg. Pier #1	19+71.96	17.08	594.89	594.89
F	19+81.96	17.08	594.95	594.94
G	19+91.96	17.08	594.99	594.99
H	20+01.96	17.08	595.00	595.00
I	20+11.96	17.08	594.99	594.99
J	20+21.96	17.08	594.96	594.93
℄ Brg. Pier #2	20+28.04	17.08	594.93	594.93
K	20+38.04	17.08	594.86	594.90
L	20+48.04	17.08	594.77	594.86
M	20+58.04	17.08	594.66	594.76
N	20+68.04	17.08	594.53	594.61
O	20+78.04	17.08	594.37	594.40
℄ Brg. E. Abut.	20+83.50	17.08	594.27	594.27
E. End of Deck	20+84.42	17.08	594.25	594.25

BEAM 8

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	19+15.58	23.92	594.00	594.00
℄ Brg. W. Abut.	19+16.50	23.92	594.02	594.02
A	19+26.50	23.92	594.20	594.27
B	19+36.50	23.92	594.37	594.47
C	19+46.50	23.92	594.51	594.61
D	19+56.50	23.92	594.63	594.69
E	19+66.50	23.92	594.72	594.73
℄ Brg. Pier #1	19+71.96	23.92	594.77	594.77
F	19+81.96	23.92	594.83	594.82
G	19+91.96	23.92	594.87	594.87
H	20+01.96	23.92	594.88	594.88
I	20+11.96	23.92	594.87	594.87
J	20+21.96	23.92	594.84	594.83
℄ Brg. Pier #2	20+28.04	23.92	594.81	594.81
K	20+38.04	23.92	594.74	594.78
L	20+48.04	23.92	594.65	594.74
M	20+58.04	23.92	594.54	594.64
N	20+68.04	23.92	594.41	594.49
O	20+78.04	23.92	594.25	594.28
℄ Brg. E. Abut.	20+83.50	23.92	594.15	594.15
E. End of Deck	20+84.42	23.92	594.13	594.13

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3361 DESIGN FIRM: #184-000918

DESIGNED	PETER PASCUA	REVISED	-
CHECKED	BRIAN CONVERSE	REVISED	-
DRAWN	RON ALLEN	REVISED	-
CHECKED	BRIAN CONVERSE	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 099-3323

STRUCTURAL SHEET NO. 10 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	33
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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LEFT EDGE OF SHOULDER

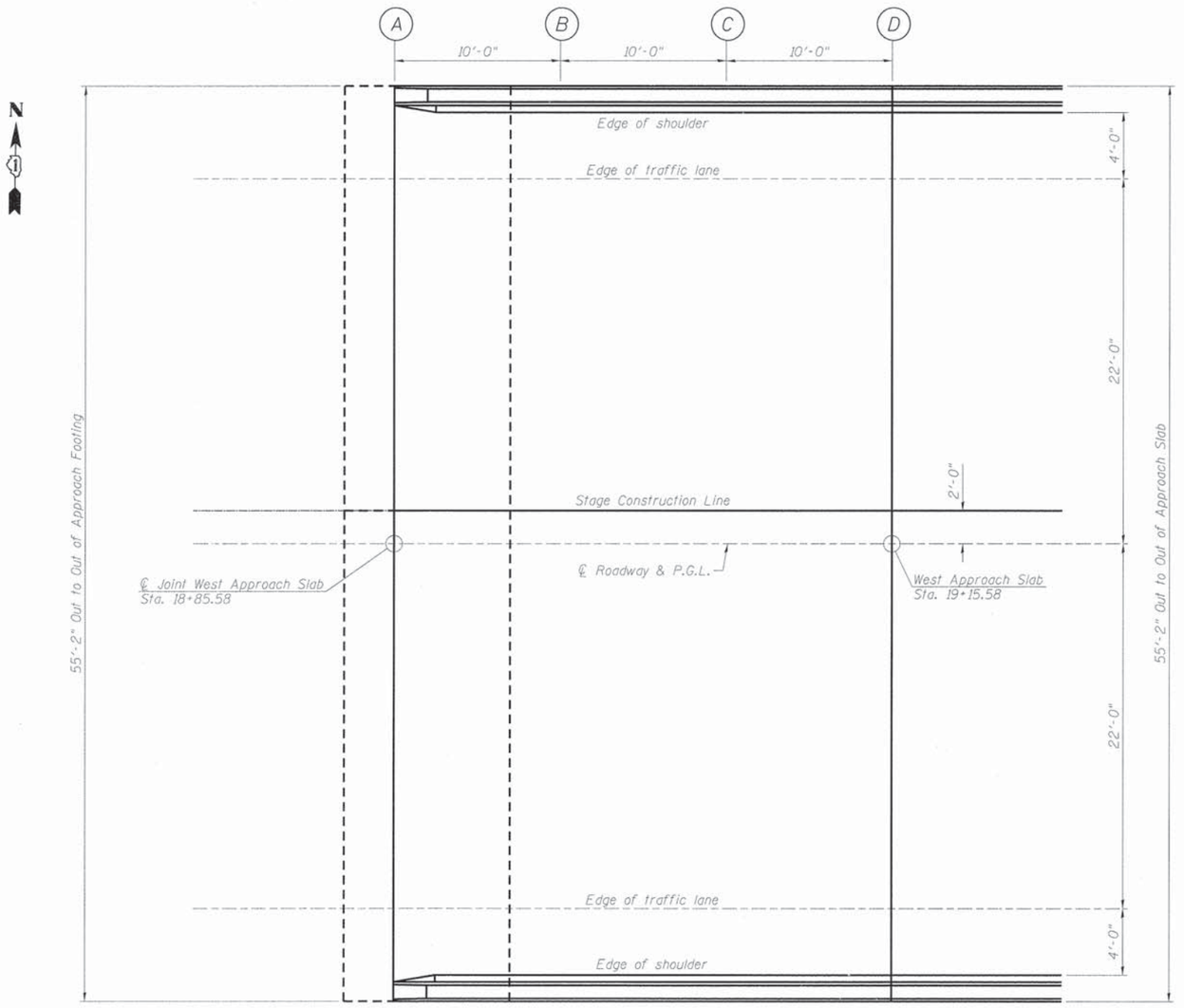
Location	Station	Offset Lt.	Theoretical Grade Elevations
A	18+85.58	26.42'	593.28
B	18+95.58	26.00'	593.52
C	19+05.58	26.00'	593.74
D	19+15.58	26.00'	593.96

LEFT EDGE OF TRAFFIC LANE

Location	Station	Offset Lt.	Theoretical Grade Elevations
A	18+85.58	22.00'	593.38
B	18+95.58	22.00'	593.61
C	19+05.58	22.00'	593.83
D	19+15.58	22.00'	594.05

STAGE CONSTRUCTION LINE

Location	Station	Offset Lt.	Theoretical Grade Elevations
A	18+85.58	2.00'	593.69
B	18+95.58	2.00'	593.92
C	19+05.58	2.00'	594.14
D	19+15.58	2.00'	594.36



PLAN VIEW

CENTERLINE OF ROADWAY & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
A	18+85.58	0.00'	593.72
B	18+95.58	0.00'	593.95
C	19+05.58	0.00'	594.17
D	19+15.58	0.00'	594.39

RIGHT EDGE OF TRAFFIC LANE

Location	Station	Offset Rt.	Theoretical Grade Elevations
A	18+85.58	22.00'	593.38
B	18+95.58	22.00'	593.61
C	19+05.58	22.00'	593.83
D	19+15.58	22.00'	594.05

RIGHT EDGE OF SHOULDER

Location	Station	Offset Rt.	Theoretical Grade Elevations
A	18+85.58	26.42'	593.28
B	18+95.58	26.00'	593.52
C	19+05.58	26.00'	593.74
D	19+15.58	26.00'	593.96

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - PETER PASCUA	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	
DRAWN - RON ALLEN	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 11 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	34
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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LEFT EDGE OF APPROACH PAVEMENT

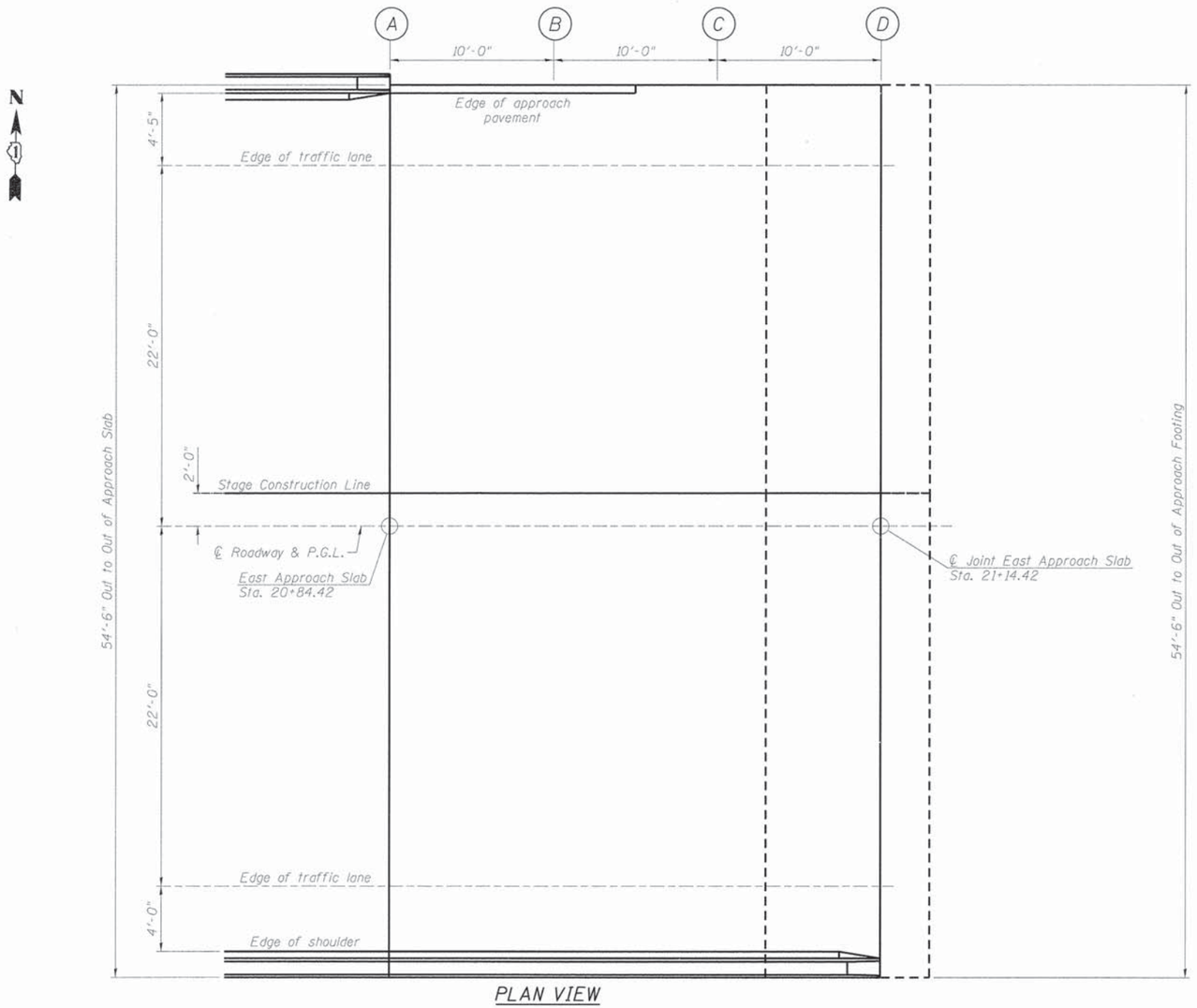
Location	Station	Offset Lt.	Theoretical Grade Elevations
A	20+84.42	26.42'	594.09
B	20+94.42	26.42'	593.79
C	21+04.42	26.92'	593.58
D	21+14.42	26.92'	593.37

LEFT EDGE OF TRAFFIC LANE

Location	Station	Offset Lt.	Theoretical Grade Elevations
A	20+84.42	22.00'	594.18
B	20+94.42	22.00'	593.88
C	21+04.42	22.00'	593.67
D	21+14.42	22.00'	593.46

STAGE CONSTRUCTION LINE

Location	Station	Offset Lt.	Theoretical Grade Elevations
A	20+84.42	2.00'	594.49
B	20+94.42	2.00'	594.28
C	21+04.42	2.00'	594.07
D	21+14.42	2.00'	593.86



PLAN VIEW

CENTERLINE OF ROADWAY & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
A	20+84.42	0.00'	594.52
B	20+94.42	0.00'	594.32
C	21+04.42	0.00'	594.11
D	21+14.42	0.00'	593.90

RIGHT EDGE OF TRAFFIC LANE

Location	Station	Offset Rt.	Theoretical Grade Elevations
A	20+84.42	22.00'	594.18
B	20+94.42	22.00'	593.88
C	21+04.42	22.00'	593.67
D	21+14.42	22.00'	593.46

RIGHT EDGE OF SHOULDER

Location	Station	Offset Rt.	Theoretical Grade Elevations
A	20+84.42	26.00'	594.09
B	20+94.42	26.00'	593.89
C	21+04.42	26.00'	593.68
D	21+14.42	26.42'	593.42

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000916

DESIGNED - PETER PASCUA	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	
DRAWN - RON ALLEN	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 099-3323

STRUCTURAL SHEET NO. 12 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	35
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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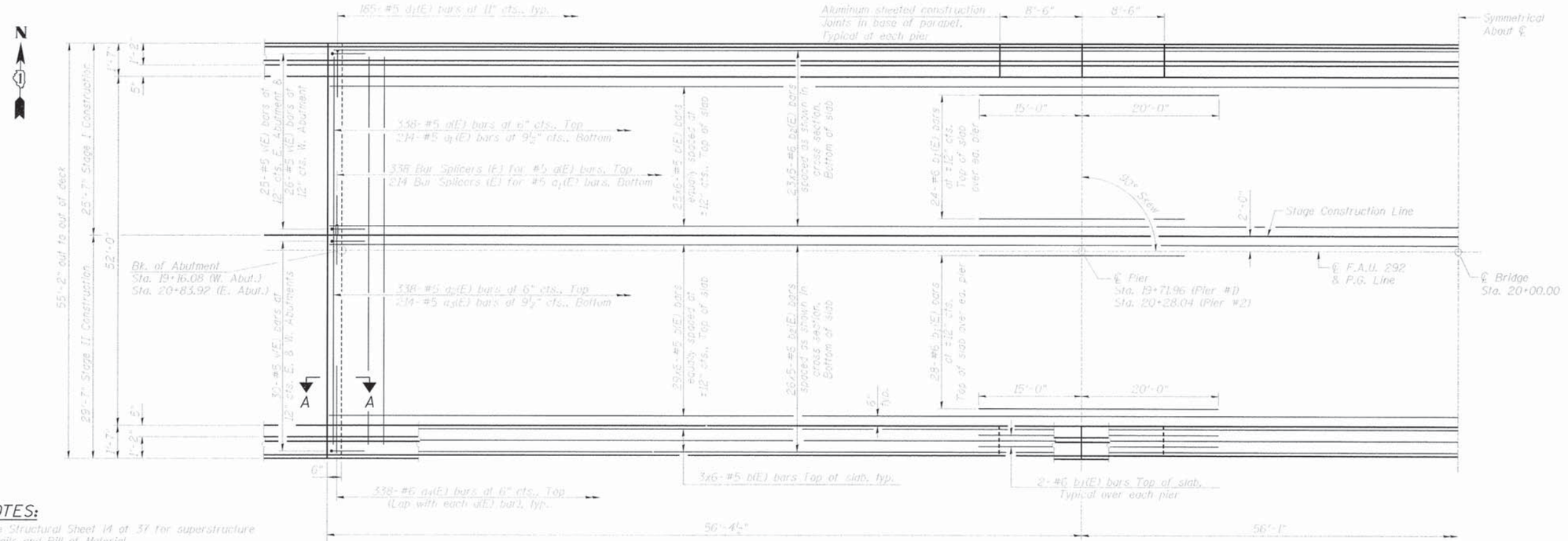


PARTIAL PLAN
(West half shown, East half similar)

MINIMUM BAR LAP
#5 Bar = 3'-3"
#6 Bar = 3'-10"

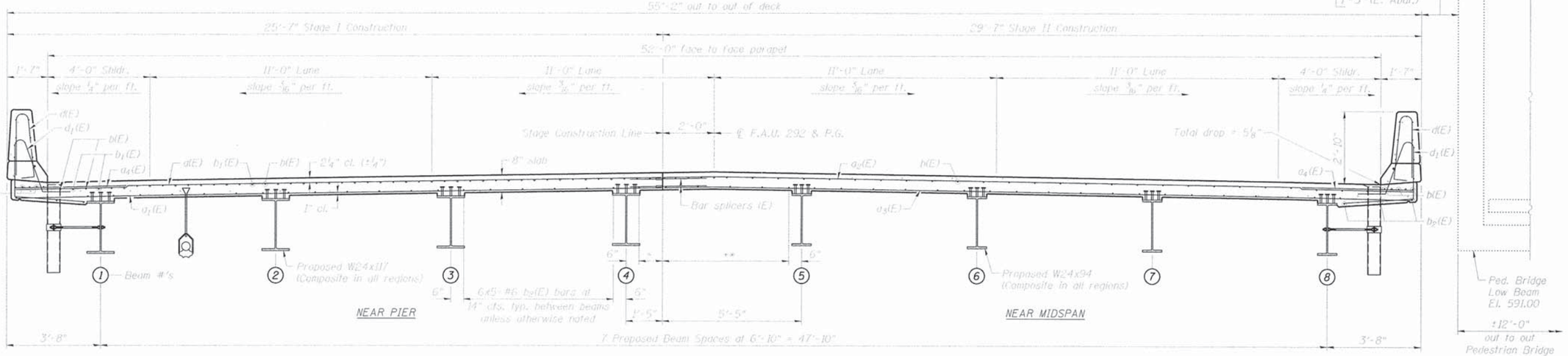
NOTES:

See Structural Sheet 14 of 37 for superstructure details and Bill of Material.

Bars indicated thus 26x5-#5 etc. indicates 26 lines of bars with 5 lengths per line.

See Structural Sheet 14 of 37 for parapet reinforcement.

See Structural Sheet 15 of 37 for Section A-A.



CROSS SECTION
(Looking East)

*2x5-#6 b2(E) bars at Stage I
**5x5-#6 b2(E) bars at Stage II
***Contractor verify prior to construction. See Structural Sheet 25 thru 27 of 37 for coordination with MSE Walls.

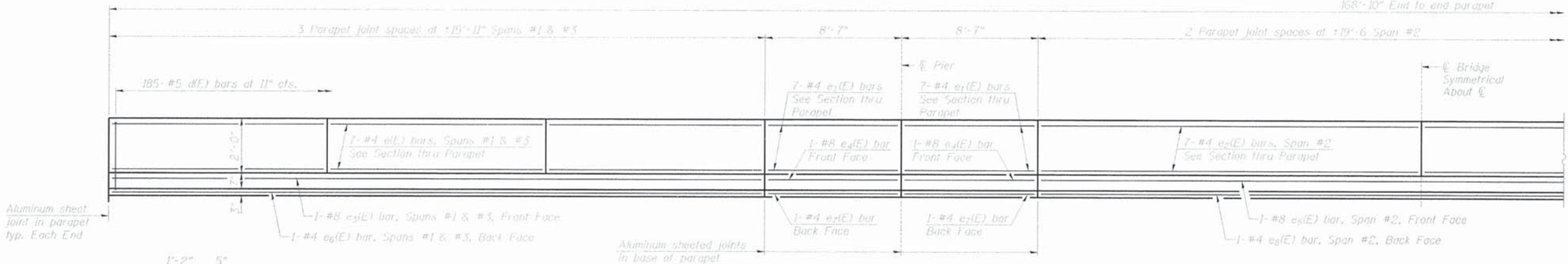
WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED -	PETER PASCUA	REVISED -
CHECKED -	BRIAN CONVERSE	REVISED -
DRAWN -	RON ALLEN	REVISED -
CHECKED -	BRIAN CONVERSE	REVISED -

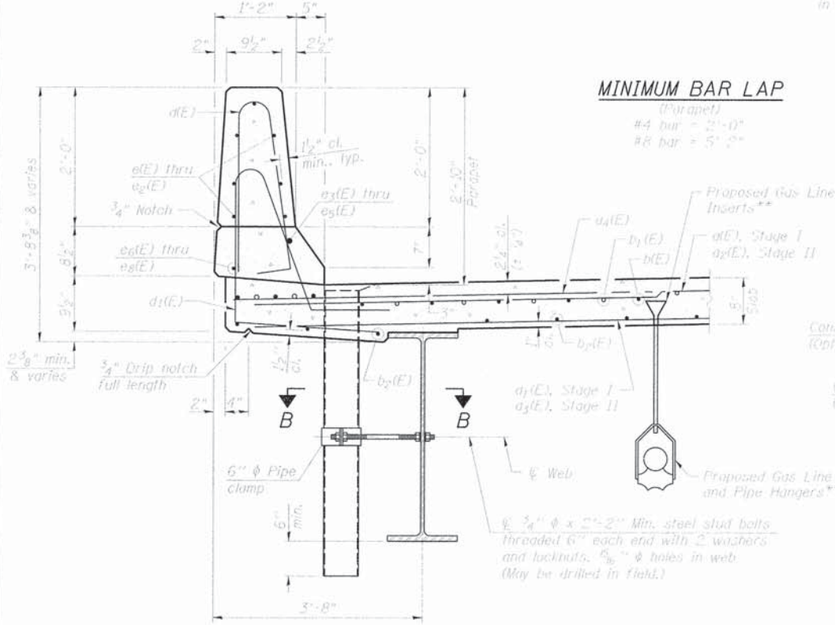
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 13 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	36
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



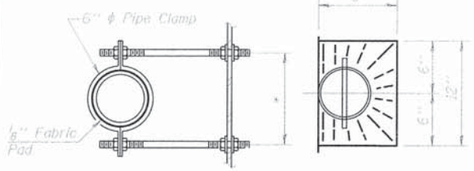
INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET

MINIMUM BAR LAP

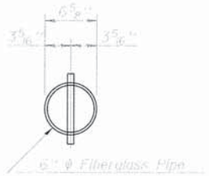
(Parapet)
#4 bar = 2'-0"
#8 bar = 3'-2"



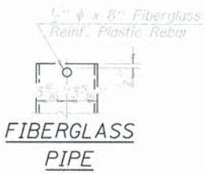
SECTION B-B

* Dimension as required by Pipe Clamp

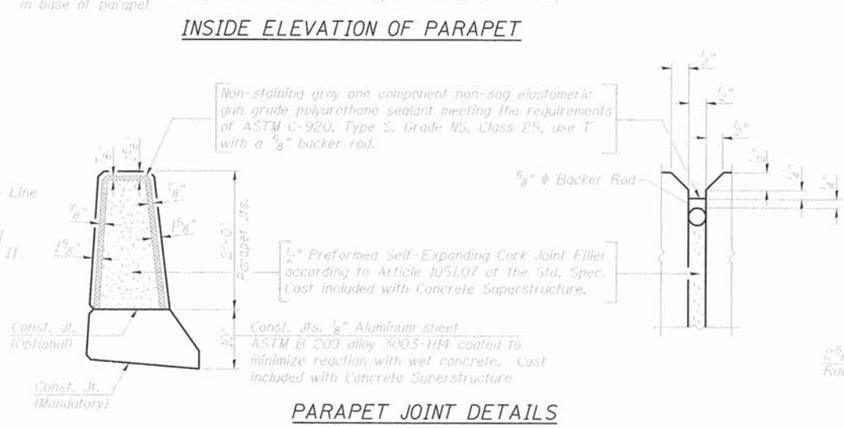
TOP PLAN



TOP PLAN



FIBERGLASS PIPE



PARAPET JOINT DETAILS

NOTES:

*Furnished and installed by others.

**Furnished by others & installed by Contractor. Installation of inserts included in cost with concrete superstructure.

See Structural Sheet 30 of 37 for bar splicer assembly.

All exposed edges shall have ¾" chamfer, except as noted.

Slip forming of parapets will not be allowed.

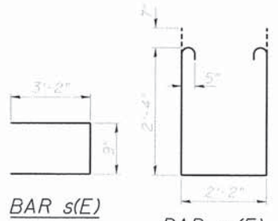
Drains shall be located clear of all diaphragms.

Drains shall not be aluminum tube.

When painting of structural steel is specified, the exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SP1 prior to painting.

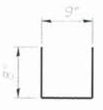
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

Galvanize clamping device, bolts, washers and nuts according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.



BAR s(E)

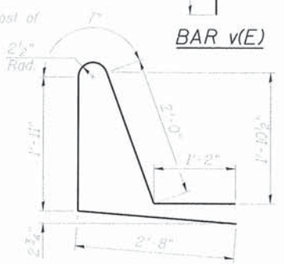
BAR s1(E)



BAR u(E)

BAR d(E)

BAR v(E)



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	338	#5	25'-1"	
d1(E)	214	#5	25'-1"	
d2(E)	338	#5	29'-3"	
d3(E)	214	#5	29'-3"	
d4(E)	676	#6	6'-6"	
b(E)	360	#5	30'-10"	
b1(E)	112	#6	35'-0"	
b2(E)	245	#6	36'-10"	
d(E)	370	#5	5'-7"	
d1(E)	370	#5	8'-4"	
e(E)	84	#4	15'-7"	
e1(E)	56	#4	8'-3"	
e2(E)	28	#4	19'-2"	
e3(E)	4	#8	47'-6"	
e4(E)	8	#8	8'-4"	
e5(E)	2	#8	38'-8"	
e6(E)	4	#4	47'-6"	
e7(E)	8	#4	8'-4"	
e8(E)	2	#4	38'-8"	
s(E)	12	#6	25'-3"	
s1(E)	12	#6	29'-3"	
m1(E)	12	#6	29'-3"	
m2(E)	28	#6	6'-6"	
m3(E)	8	#6	3'-4"	
m4(E)	32	#5	4'-0"	
s(E)	116	#5	7'-1"	
s1(E)	116	#5	8'-0"	
u(E)	112	#4	2'-1"	
v(E)	111	#5	2'-10"	
Floor Drains			Each	16
Concrete Superstructure			Cu. Yd.	306.9
Bridge Deck Grooving			Sq. Yd.	938
Protective Coat			Sq. Yd.	1,087
Reinforcement Bars, Epoxy Coated			Pound	80,670
Bar Splicers			Each	560

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T. 815-284-3381 DESIGN FIRM: #184-000918

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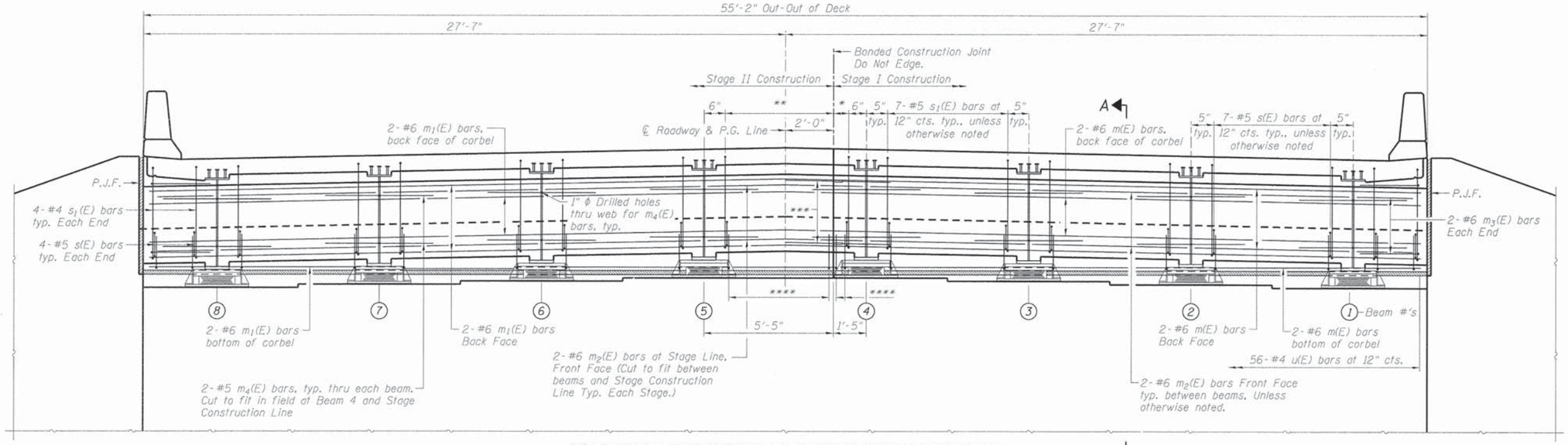
CHECKED	BRIAN CONVERSE	REVISED
DRAWN	RON ALLEN	REVISED
CHECKED	BRIAN CONVERSE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

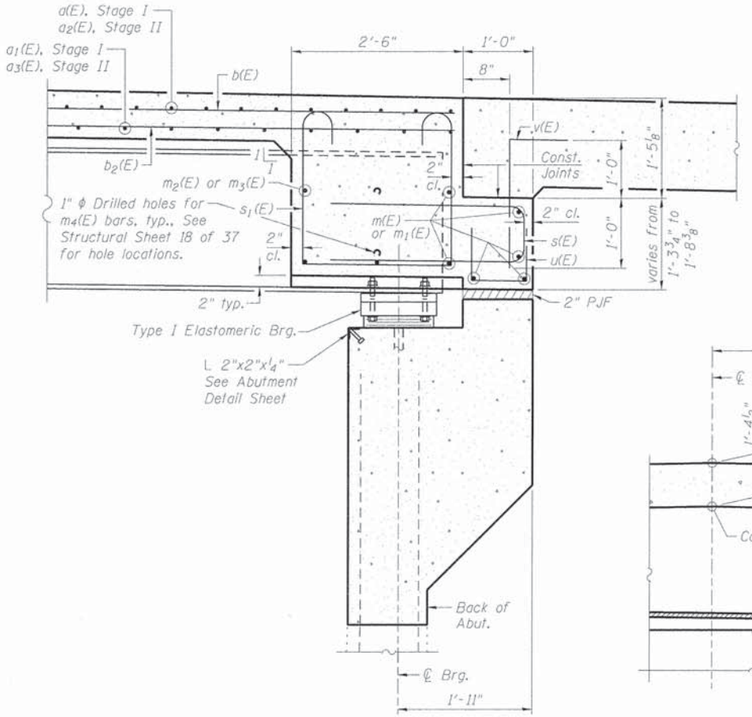
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 14 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	37
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



DIAPHRAGM ELEVATION AT EAST & WEST ABUTMENT

(Looking West)



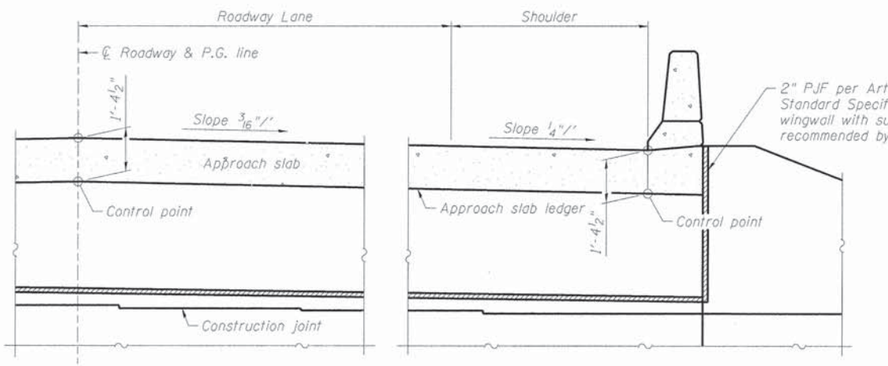
SECTION A-A

*2-#5 s(E) at Stage I
2-#5 s1(E) at Stage I

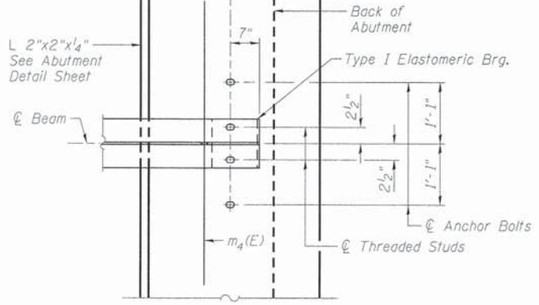
**6-#5 s(E) at Stage II
6-#5 s1(E) at Stage II

***6-#6 bar splicers for m(E) bars
2-#6 bar splicers for m2(E) bars
(Cut Splicer bars for m2(E) to fit betweem beam 4 and Stage Const. Line)

****2-#4 u(E) at Stage I
6-#4 u(E) at Stage II



SECTION B-B



PARTIAL PLAN AT ABUTMENT

(Showing bottom flange of beam)

NOTES:

Reinforcement bars in diaphragm are billed with superstructure on Structural Sheet 14 of 37.

Concrete in diaphragm is included with Concrete Superstructure on Structural Sheet 14 of 37.

For details of bars s(E), s_1(E), u(E), and v(E) see Structural Sheet 14 of 37.

The s(E) and s_1(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 Structural Sheet 20 of 37.

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DRAWN - RON ALLEN	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	

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DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 15 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	38
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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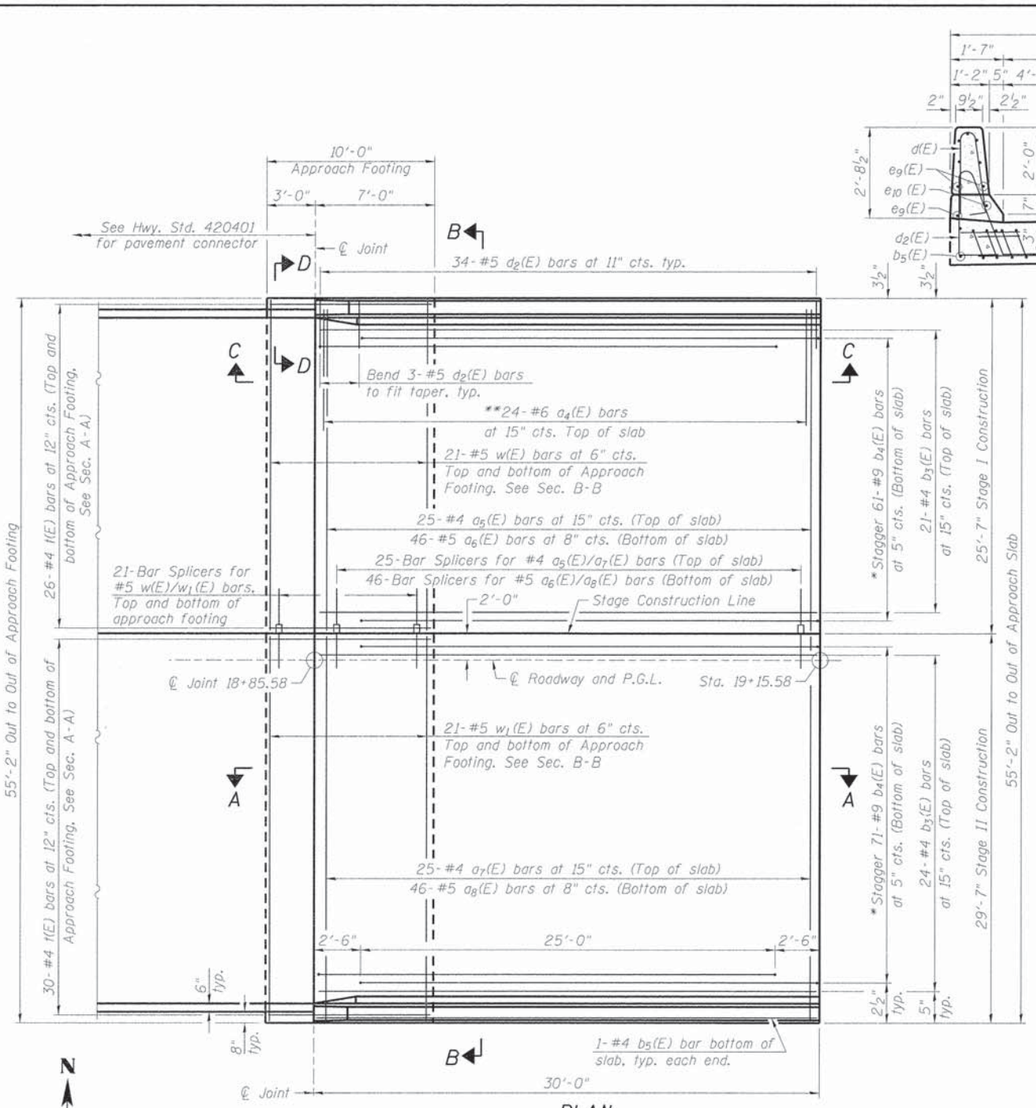

BILL OF MATERIAL - W. APPROACH

Bar	No.	Size	Length	Shape
a_4(E)	48	#6	6'-6"	
a_5(E)	25	#4	25'-3"	
a_6(E)	46	#5	25'-3"	
a_7(E)	25	#4	29'-3"	
a_8(E)	46	#5	29'-3"	
b_3(E)	45	#4	29'-8"	
**** b_4(E)	132	#9	29'-9"	
b_5(E)	2	#4	29'-8"	
**** d(E)	68	#5	5'-7"	
**** d_2(E)	68	#5	7'-11"	
e_9(E)	16	#4	29'-8"	
e_{10} (E)	2	#8	29'-8"	
t(E)	112	#4	9'-8"	
w(E)	42	#5	25'-3"	
w_1(E)	42	#5	29'-3"	
Concrete Structures		Cu. Yd.	17.0	
Concrete Superstructure		Cu. Yd.	83.3	
Bridge Deck Grooving		Sq. Yd.	167	
Protective Coat		Sq. Yd.	193	
Reinforcement Bars, Epoxy Coated		Pound	22,440	
Bar Splicers		Each	113	

NOTES:

*Tilt #9 b_4(E) bars as required to maintain clearance.

**Space between a_5(E) bars and a_7(E) bars typ. ea. parapet.

***Cost included with Concrete Superstructure.

****For bar bending diagrams, see Structural Sheet 17 of 37.

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 Structural Sheet 14 of 37.

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 Structural Sheet 22 of 37.

For additional parapet details, see Structural Sheet 14 of 37.

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CHECKED - BRIAN CONVERSE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 16 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	39
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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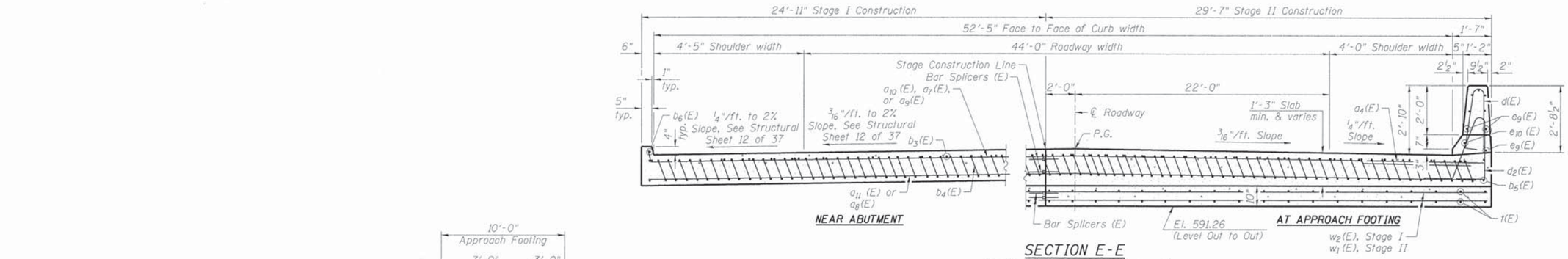
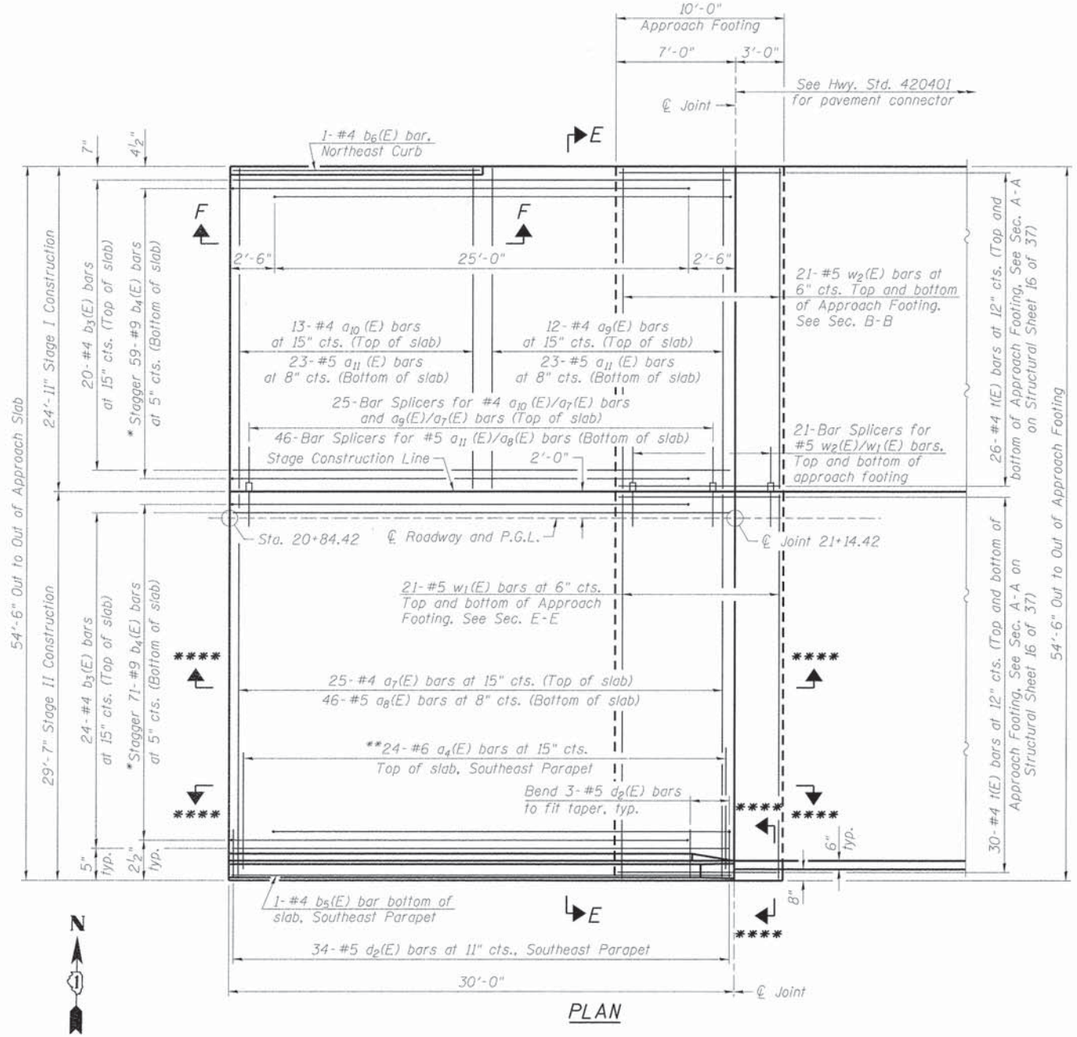
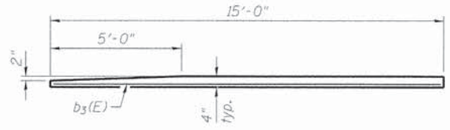


SECTION E-E

(See Plan for dimensions not shown)



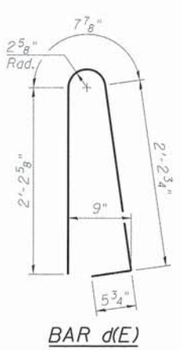
PLAN



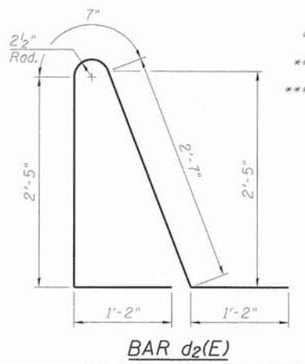
SECTION F-F

BAR a_{10} (E)

BAR b_4(E)



BAR d(E)



BAR d_2(E)

BILL OF MATERIAL - E. APPROACH

Bar	No.	Size	Length	Shape
a_4(E)	24	#6	6'-6"	
a_7(E)	25	#4	29'-3"	
a_8(E)	46	#5	29'-3"	
a_9(E)	12	#4	24'-5"	
a_{10} (E)	13	#4	24'-9"	
a_{11} (E)	46	#5	24'-7"	
b_3(E)	44	#4	29'-8"	
b_4(E)	130	#9	29'-9"	
b_5(E)	1	#4	29'-8"	
b_6(E)	1	#4	14'-8"	
d(E)	34	#5	5'-7"	
d_2(E)	34	#5	7'-11"	
e_9(E)	8	#4	29'-8"	
e_{10} (E)	1	#8	29'-8"	
t(E)	112	#4	9'-8"	
w_1(E)	42	#5	29'-3"	
w_2(E)	42	#5	24'-5"	
Concrete Structures		Cu. Yd.	16.8	
Concrete Superstructure		Cu. Yd.	79.1	
Bridge Deck Grooving		Sq. Yd.	168	
Protective Coat		Sq. Yd.	185	
Reinforcement Bars, Epoxy Coated		Pound	21,110	
Bar Splicers		Each	113	

NOTES:

*Tilt #9 b_4(E) bars as required to maintain clearance.

**Space between a_7(E) bars at parapet.

***Cost included with Concrete Superstructure.

****See Structural Sheet 16 of 37.

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 t(E) bar details, see Structural Sheet 14 of 37.

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 Structural Sheet 22 of 37.

For additional parapet details, see Structural Sheet 14 of 37.

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DRAWN	RON ALLEN	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 099-3323

STRUCTURAL SHEET NO. 17 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	40
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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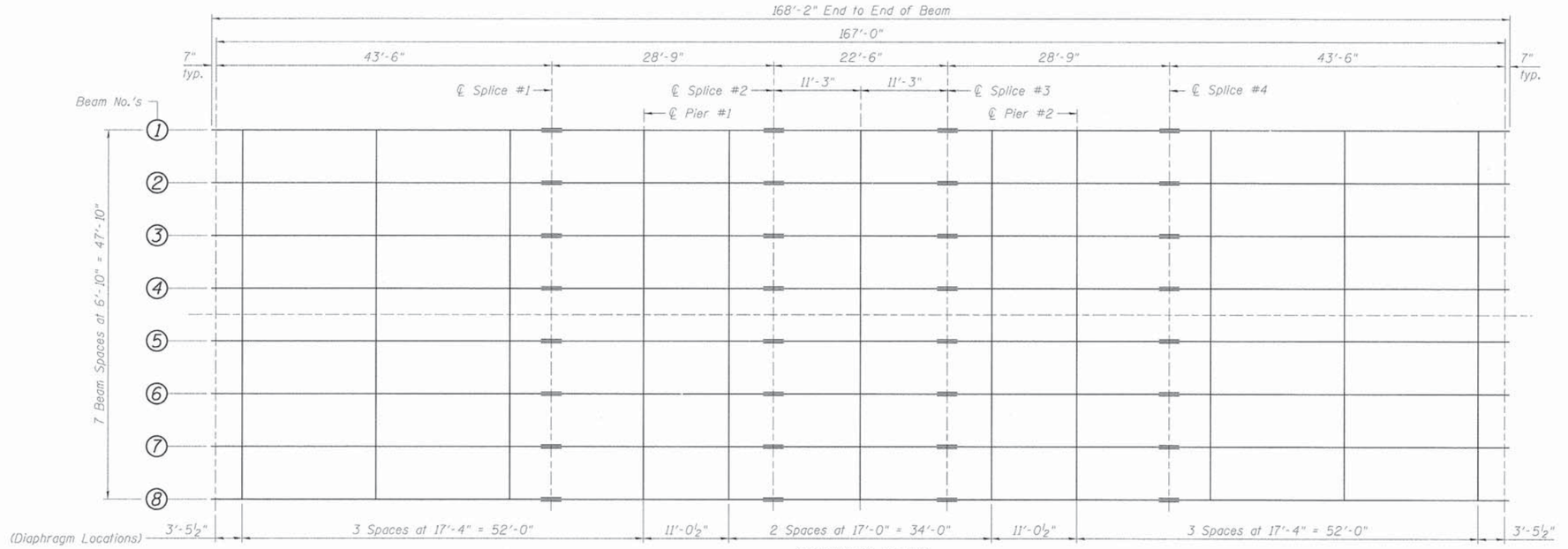
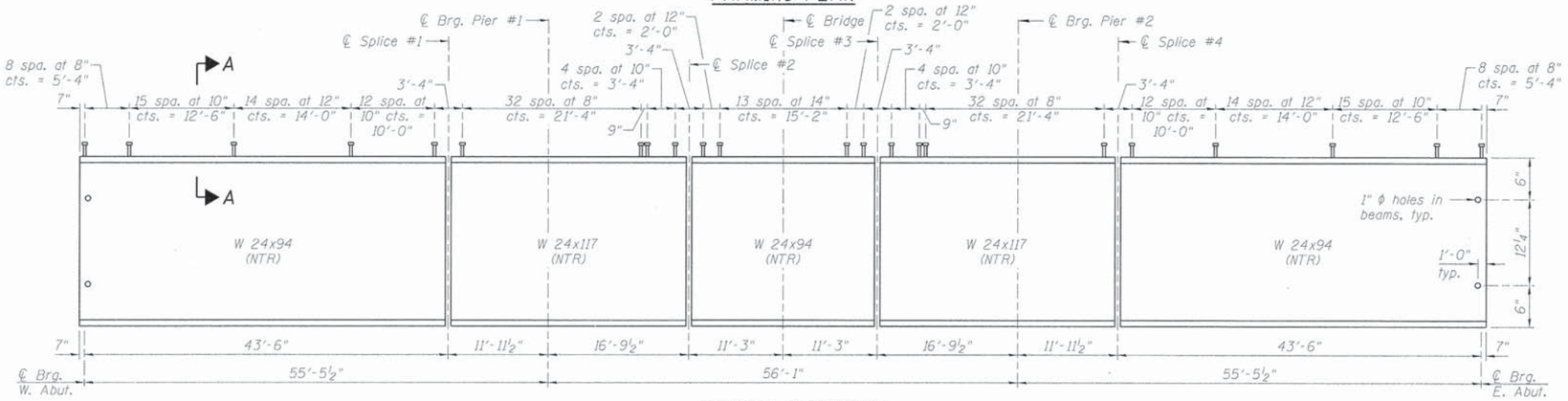
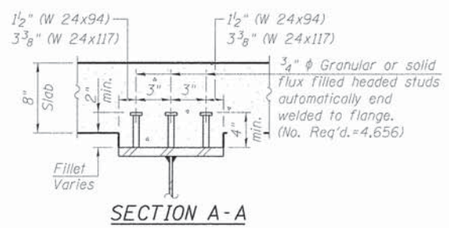


FRAMING PLAN



GIRDER ELEVATION



SECTION A-A

TOP OF BEAM ELEVATIONS (FOR FABRICATION ONLY)								
Beam Number	West Abutment	Splice #1	Pier #1	Splice #2	Splice #3	Pier #2	Splice #4	East Abutment
1	593.23	593.90	593.99	594.07	594.09	594.03	593.96	593.37
2	593.34	594.01	594.10	594.18	594.20	594.14	594.07	593.48
3	593.45	594.12	594.21	594.29	594.31	594.25	594.18	593.59
4	593.55	594.22	594.31	594.39	594.41	594.35	594.28	593.69
5	593.55	594.22	594.31	594.39	594.41	594.35	594.28	593.69
6	593.45	594.12	594.21	594.29	594.31	594.25	594.18	593.59
7	593.34	594.01	594.10	594.18	594.20	594.14	594.07	593.48
8	593.23	593.90	593.99	594.07	594.09	594.03	593.96	593.37

BILL OF MATERIAL

Item	Unit	Quantity
Stud Shear Connectors	Each	4,656
Furnishing & Erecting Structural Steel	L. Sum	1

NOTES:

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.

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CHECKED - BRIAN CONVERSE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 18 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	41
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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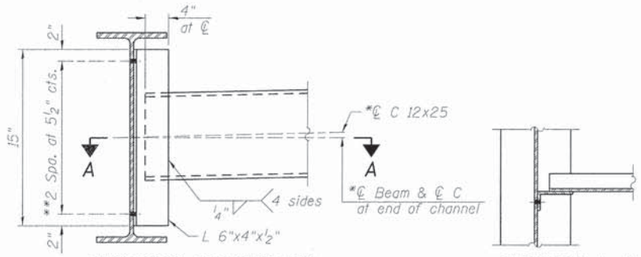


INTERIOR DIAPHRAGM

SECTION A-A

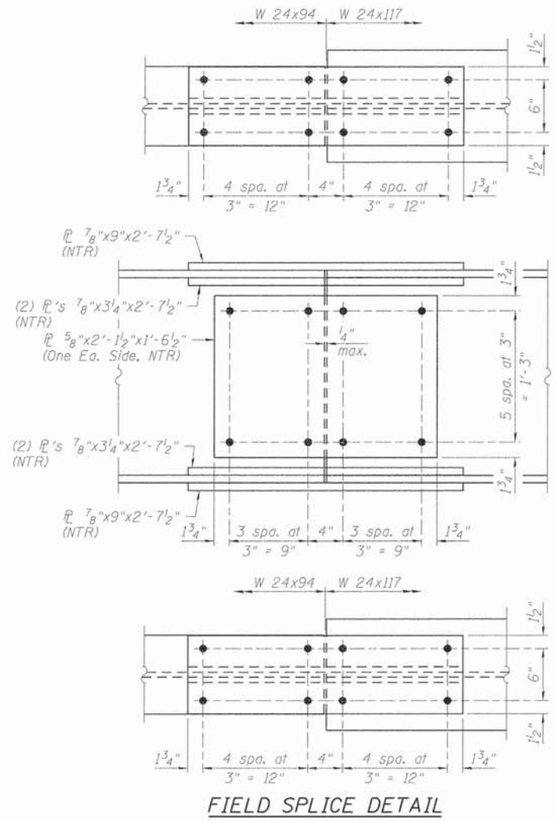
NOTES:

Two hardened washers required for each set of oversized holes.

* Alternate C 12x30 channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.

The alternate, if utilized, shall be provided at no additional cost to the Department.

** ¾" ϕ HS bolts, $^{15}/_{16}$" ϕ holes



FIELD SPLICE DETAIL

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1 or 0.6 Sp. 3	Pier	0.5 Sp. 2
I_s	(in^4)	2,700	3,540	2,700
$I_c(n)$	(in^4)	8,592	———	8,592
$I_c(3n)$	(in^4)	6,375	———	6,375
$I_c(cr)$	(in^4)	———	5,036	———
S_s	(in^3)	222	291	222
$S_c(n)$	(in^3)	354	———	354
$S_c(3n)$	(in^3)	319	———	319
$S_c(cr)$	(in^3)	———	336	———
DC1	(k/')	0.796	0.825	0.796
M_{DC1}	('k)	188.3	273.5	48.9
DC2	(k/')	0.113	0.113	0.113
M_{DC2}	('k)	26.9	36.5	7.8
DW	(k/')	0.342	0.342	0.342
M_{DW}	('k)	81.8	110.8	23.6
$M(\ell + IM)_1$	('k)	586	502	475
$M(\ell + IM)_2$	('k)	379	349	299
M_u (Strength I)	('k)	1,418	1,433	938
M_u (Strength II)	('k)	904	1,024	510
$\phi_f M_n$	('k)	1,894	———	1,894
$\phi_f M_{nc}$	('k)	———	1,743 **	———
f_s DC1	(ksi)	10.18	11.28	2.64
f_s DC2	(ksi)	1.01	1.30	0.29
f_s DW	(ksi)	3.07	3.96	0.89
f_s (ℓ+IM)1	(ksi)	19.85	17.97	16.10
f_s (ℓ+IM)2	(ksi)	12.84	12.47	10.14
f_s (Service II)	(ksi)	40.07	39.90	24.74
$0.95R_hF_{yf}$	(ksi)	47.5	47.5	47.5
f_s (Total)(Strength I)	(ksi)	*	**	*
f_s (Total)(Strength II)	(ksi)	*	**	*
V_f	(k)	39.9	46.2	30.9

* NA - Section is compact per AASHTO 6.10.6.2.2

** Section qualifies for AASHTO A6 per A6.1 : A moment-based check per AASHTO A6.1.1-1 is sufficent

INTERIOR GIRDER REACTION TABLE			
		Abut.	Pier
R_{DC1}	(k)	47.13	50.92
R_{DC2}	(k)	2.46	6.93
R_{DW}	(k)	7.48	21.05
$R(\ell + IM)_1$	(k)	63.2	97.4
$R(\ell + IM)_2$	(k)	82.4	141.5
R_{Total}	(k)	139.4	220.4

ABBREVIATIONS:

I_s, S_s - Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.^{4} and in.^{3}).

$I_c(n), S_c(n)$ - Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.^{4} and in.^{3}).

$I_c(3n), S_c(3n)$ - Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to long-term composite (superimposed) dead loads (in.^{4} and in.^{3}).

$I_c(cr), S_c(cr)$ - Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I, and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.^{4} and in.^{3}).

DC1 - Un-factored non-composite dead load (kips/ft.).

M_{DC1} - Un-factored moment due to non-composite dead load (kip-ft.).

DC2 - Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2} - Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW - Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW} - Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

$M(\ell + IM)$ - Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I) - Factored design moment (kip-ft.). $1.25(M_{DC1} + M_{DC2}) + 1.5M_{DW} + 1.75M(\ell + IM)$

M_u (Strength II) - Factored design moment for permit truck (kip-ft.). $1.25(M_{DC1} + M_{DC2}) + 1.5(M_{DW}) + 1.35M(\ell + IM)$

$\phi_f M_n$ - Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

f_s DC1 - Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated (ksi): M_{DC1} / S_{nc}

f_s DC2 - Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated (ksi): $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable

f_s DW - Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated (ksi): $M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable

$f_s(\ell + IM)$ - Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated (ksi): $M(\ell + IM) / S_c(n)$ or $M_{DW} / S_c(cr)$ as applicable

f_s (Service II) - Sum of stresses as computed (ksi). f_s DC1 + f_s DC2 + f_s DW + 1.3 $f_s(\ell + IM)$

$0.95R_hF_{yf}$ - Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi)

f_s (Total) (Strength I) - Sum of stresses as computed on non-compact section (ksi). $1.25(f_s DC1 + f_s DC2) + 1.5f_s DW + 1.75f_s(\ell + IM)$

f_s (Total) (Strength II) - Sum of stresses as computed on non-compact section for permit truck (ksi). $1.25(f_s DC1 + f_s DC2) + 1.5f_s DW + 1.35f_s(\ell + IM)$

V_f - Maximum factored shear range in span computed according to Article 6.10.10.

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DESIGNED -	PETER PASCUA	REVISED -
CHECKED -	BRIAN CONVERSE	REVISED -
DRAWN -	RON ALLEN	REVISED -
CHECKED -	BRIAN CONVERSE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 099-3323

STRUCTURAL SHEET NO. 19 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	42
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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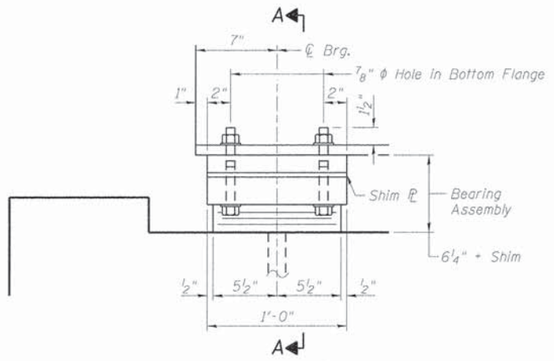
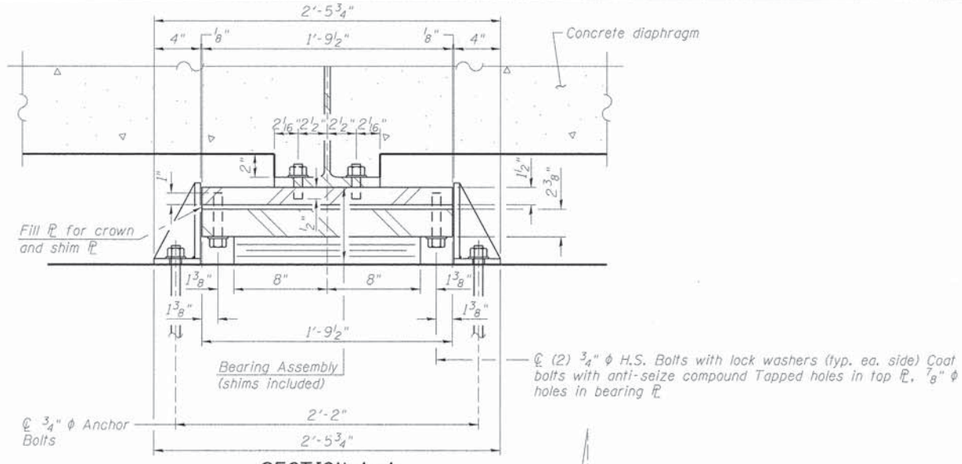
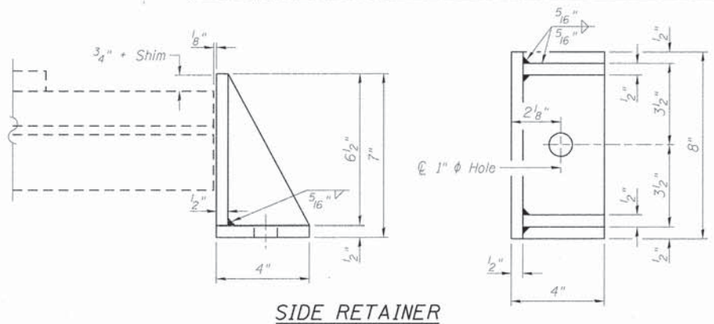


ELEVATION AT ABUT.



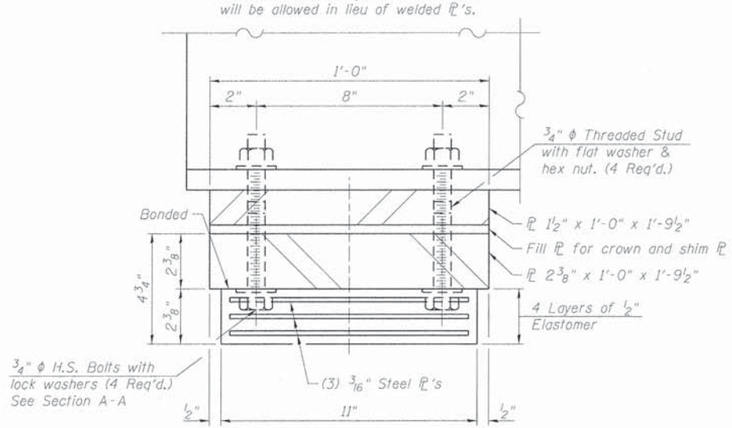
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG. - WEST AND EAST ABUTMENT



SIDE RETAINER

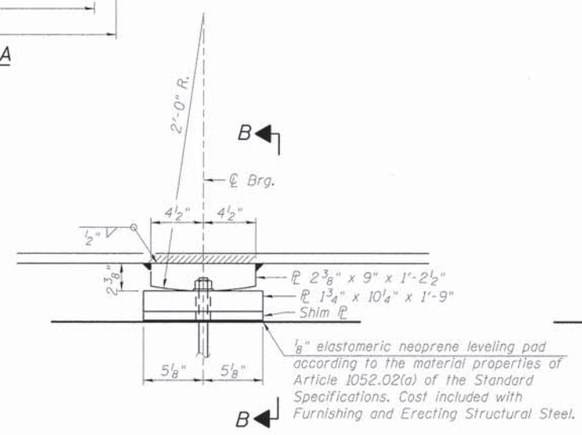
Equivalent rolled angle with stiffeners will be allowed in lieu of welded ℄'s.



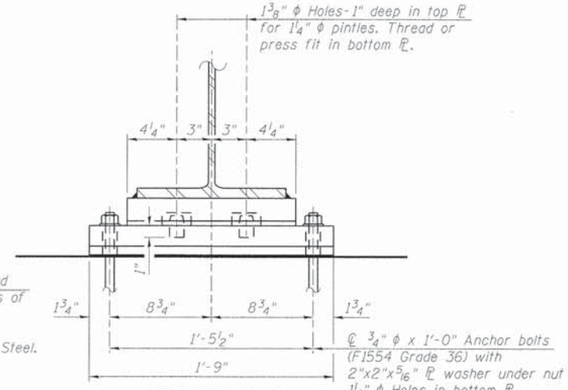
BEARING ASSEMBLY

NOTE:

Shim ℄'s shall not be placed under Bearing Assembly.

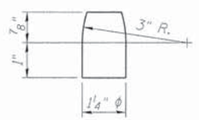


ELEVATION AT PIER



SECTION B-B

FIXED BEARING - PIER #1 AND PIER #2



PINTLE

GENERAL NOTES:

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

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.

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

(2) ⅛" adjusting shims shall be provided for each bearing in addition to all other ℄'s required and placed as shown on bearing details.

Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	16
Anchor Bolts, ¾"	Each	64

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ENGINEERING ARCHITECTURE LAND SURVEYING
829 EAST 2ND STREET, DIXON, IL 61021-0367
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CHECKED - BRIAN CONVERSE	REVISED -	
DRAWN - RON ALLEN	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 20 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	43
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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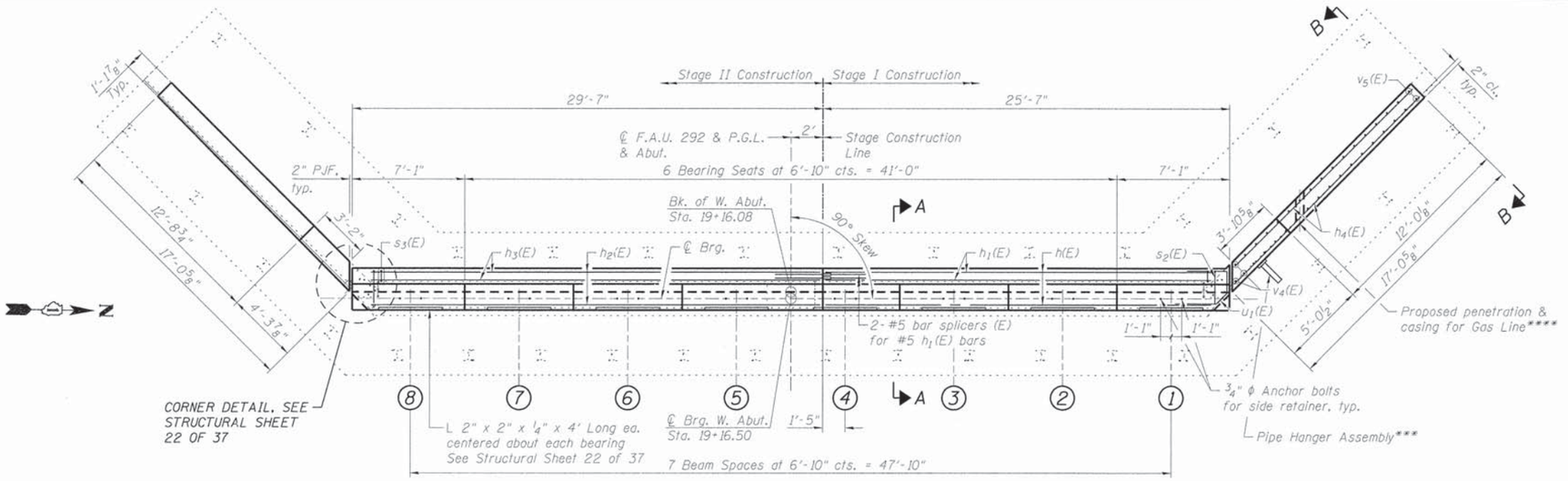
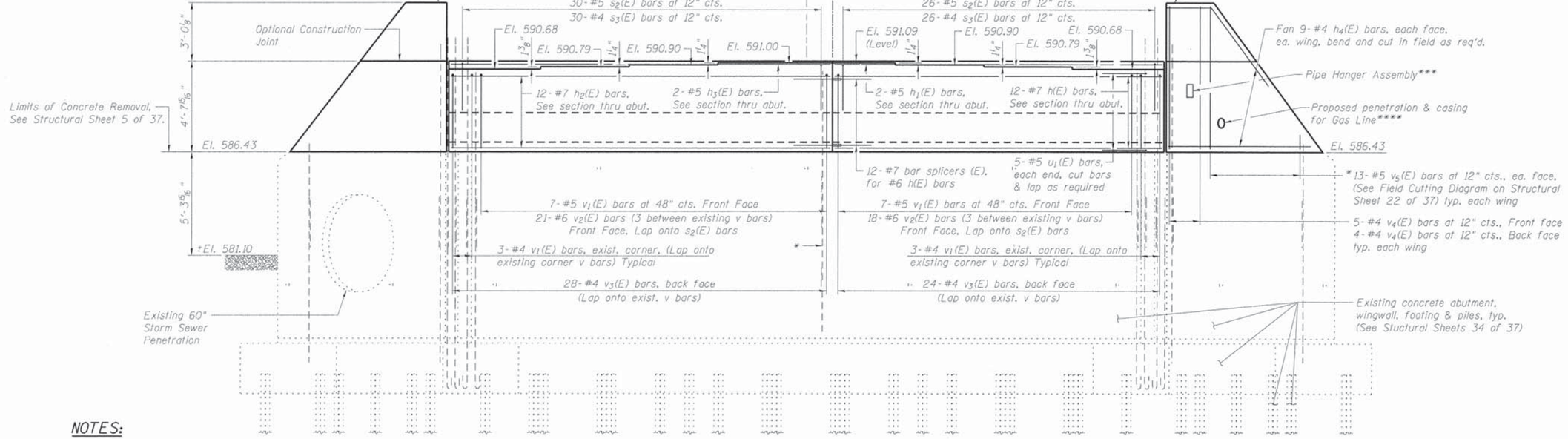


PLAN VIEW

*** Furnished & installed by others

**** Furnished by others & installed by Contractor. Installation of penetration & casing included in cost with Concrete Structures.



ELEVATION VIEW
(Looking West)

NOTES:

* Existing vertical reinforcement shall be cleaned and incorporated into the new construction. Cost included with concrete removal.

For Section A-A, see Structural Sheet 22 of 37.

For existing abutment details, see Structural Sheet 34 of 37.

WILLETT HOFMANN & ASSOCIATES INC
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CHECKED - BRIAN CONVERSE	REVISED -	
DRAWN - RON ALLEN	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT SHEET
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 21 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	44
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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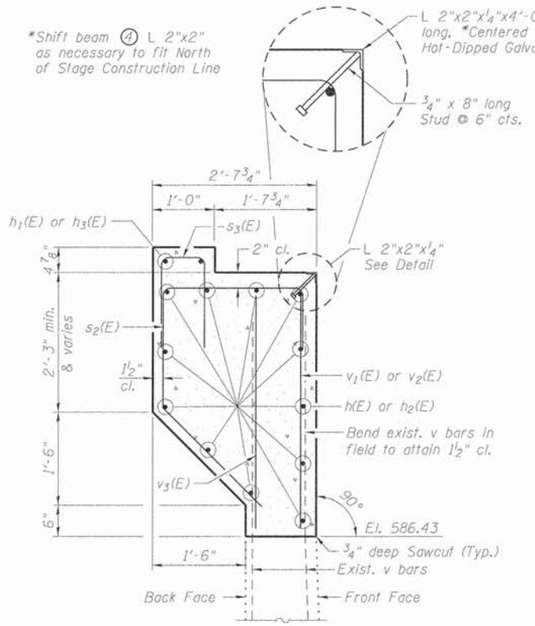
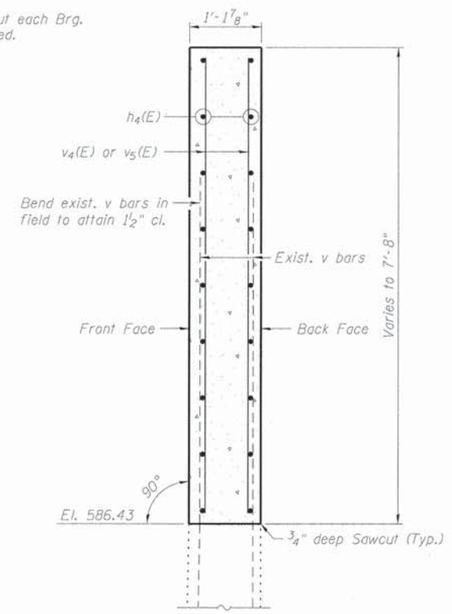
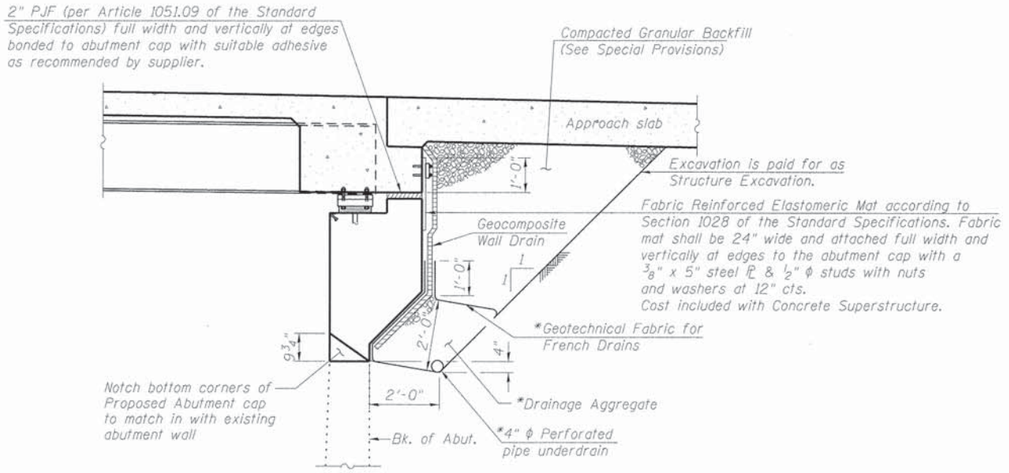


SECTION A-A



SECTION B-B



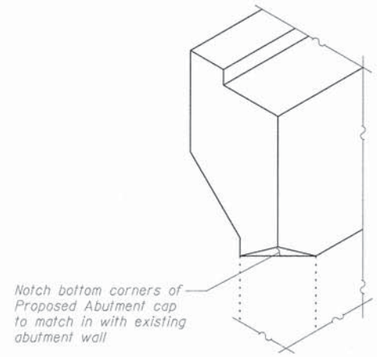
SECTION THRU SEMI-INTEGRAL ABUTMENT

(Horiz. dim. ℄ Rt. L's)

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

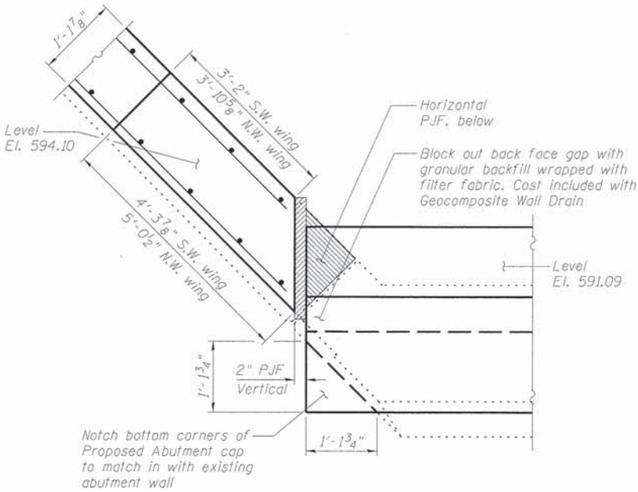
NOTE:

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 wingwall.



ISOMETRIC VIEW
CORNER DETAIL

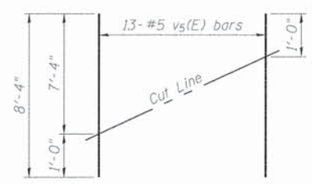
(Wingwall not shown for clarity)



CORNER DETAIL

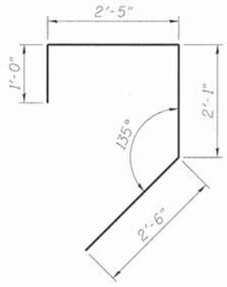
BILL OF MATERIAL - W. ABUT.

Bar	No.	Size	Length	Shape
h(E)	12	#7	25'-3"	——
h1(E)	2	#5	25'-3"	——
h2(E)	12	#7	29'-3"	——
h3(E)	2	#5	29'-3"	——
h4(E)	36	#4	19'-1"	——
s2(E)	56	#5	8'-0"	⊐
s3(E)	56	#4	2'-8"	⊓
u1(E)	10	#5	8'-4"	⊐—⊏
v1(E)	20	#5	4'-3"	——
v2(E)	39	#6	4'-3"	——
v3(E)	52	#4	4'-3"	——
v4(E)	18	#4	7'-3"	——
v5(E)	26	#5	8'-4"	——
Structure Excavation		Cu. Yd.	89.6	
Concrete Structures		Cu. Yd.	27.2	
Reinforcement Bars, Epoxy Coated		Pound	3,300	
Bar Splicers		Each	14	
Geocomposite Wall Drain		Sq. Yd.	38	
Granular Backfill for Structures		Cu. Yd.	78.8	
Pipe Underdrains for Structures 4"		Foot	59	

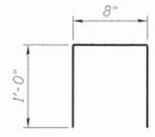


FIELD CUTTING DIAGRAM

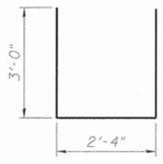
Order v5(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s2(E)



BAR s3(E)



BAR u1(E)

NOTES:

Pour steps monolithically with cap.

For Bar Splicer details, see Structural Sheet 30 of 37.

All exposed edges shall have standard ¾" chamfers, except as noted.

L 2"x2"x¼" shown in Section A-A shall be included in cost of Furnishing & Erecting Structural Steel.

WILLETT HOFMANN & ASSOCIATES INC
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T: 815-284-3381 DESIGN FIRM: #184-000918

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CHECKED	- BRIAN CONVERSE	REVISED -
DRAWN	- RON ALLEN	REVISED -
CHECKED	- BRIAN CONVERSE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT DETAILS
STRUCTURE NO. 099-3323

STRUCTURAL SHEET NO. 22 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	45
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT (IHM-9003(658)			

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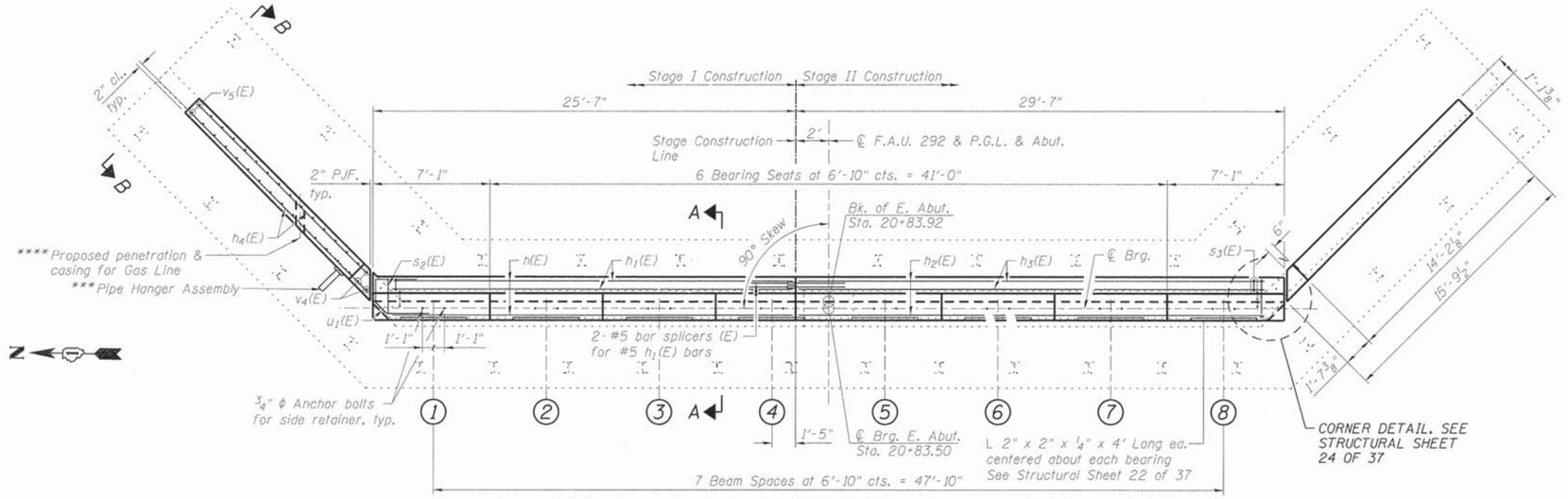
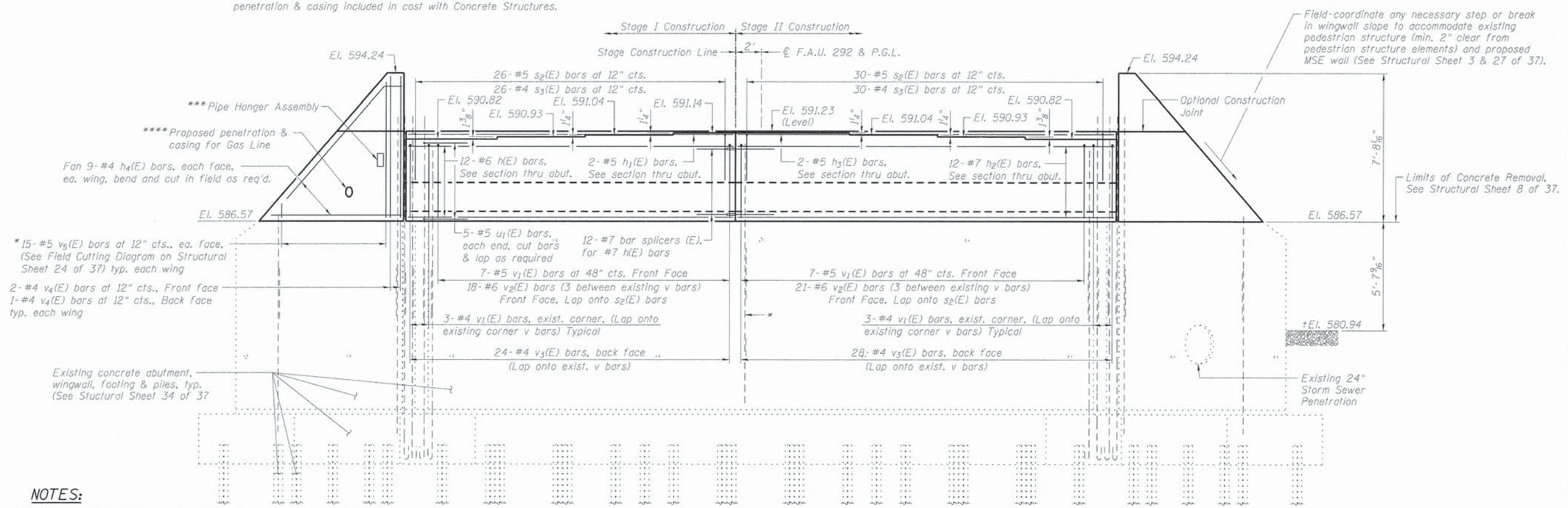


PLAN VIEW

*** Furnished & installed by others

**** Furnished by others & installed by Contractor. Installation of penetration & casing included in cost with Concrete Structures.



ELEVATION VIEW
(Looking East)

NOTES:

*Existing vertical reinforcement shall be cleaned and incorporated into the new construction. Cost included with concrete removal.

For Section A-A, see Structural Sheet 22 of 37.

For existing abutment details, see Structural Sheet 34 of 37.

FILE = S:\PROJECTS\2014\1304D14_Joliet\DESIGN\STRUCT\2D_Drawings\1304D14_East Abutment Sheet.dgn

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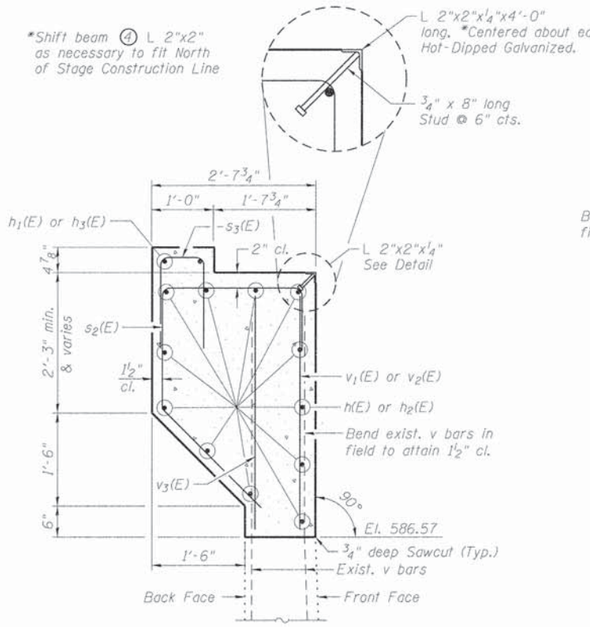
DRAWN - RON ALLEN	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	

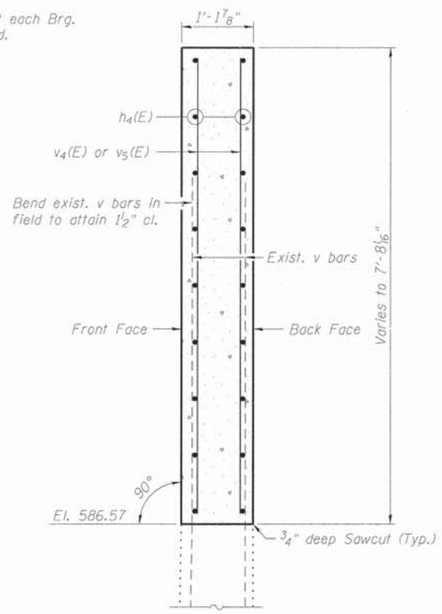
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT SHEET
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 23 OF 37 SHEETS

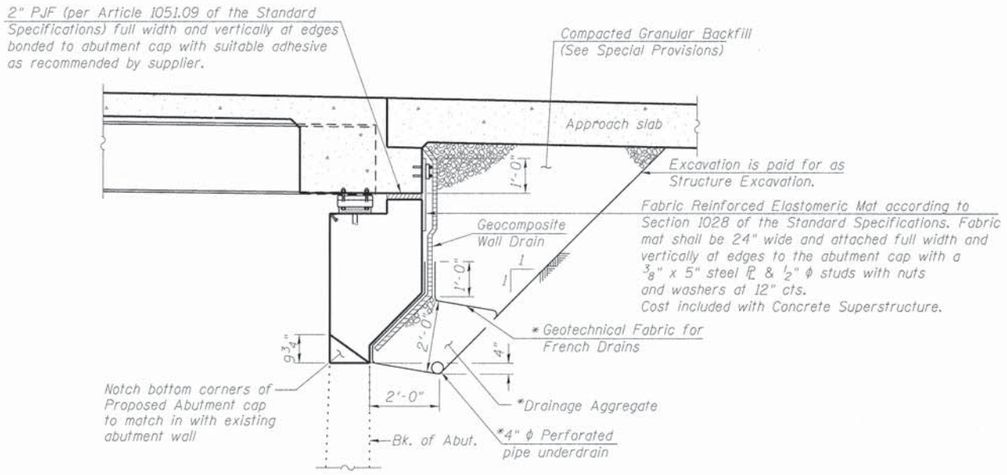
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	46
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



SECTION A-A



SECTION B-B



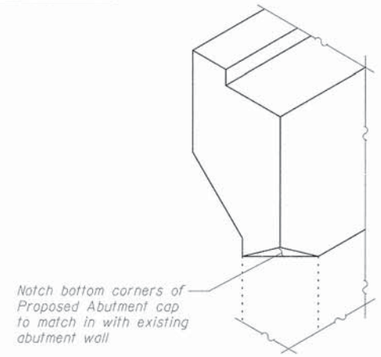
SECTION THRU SEMI-INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

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

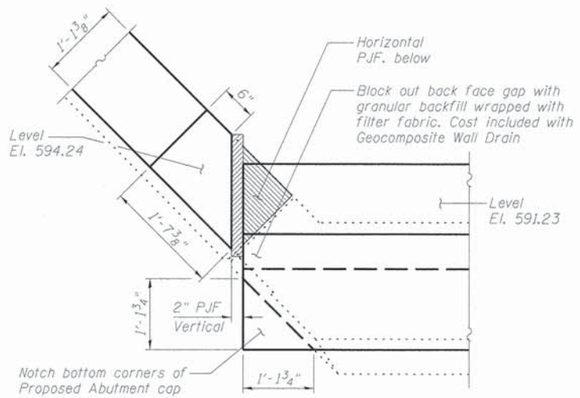
NOTE:

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 wingwall.



ISOMETRIC VIEW
CORNER DETAIL

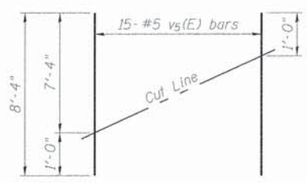
(Wingwall not shown for clarity)



CORNER DETAIL

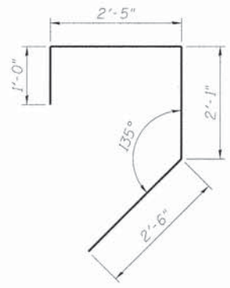
BILL OF MATERIAL - E. ABUT.

Bar	No.	Size	Length	Shape
h(E)	12	#7	25'-3"	
h1(E)	2	#5	25'-3"	
h2(E)	12	#7	29'-3"	
h3(E)	2	#5	29'-3"	
h4(E)	36	#4	19'-1"	
s2(E)	56	#5	8'-0"	
s3(E)	56	#4	2'-8"	
u1(E)	10	#5	8'-4"	
v1(E)	20	#5	4'-3"	
v2(E)	39	#6	4'-3"	
v3(E)	52	#4	4'-3"	
v4(E)	6	#4	7'-3"	
v5(E)	30	#5	8'-4"	
Structure Excavation		Cu. Yd.	73.2	
Concrete Structures		Cu. Yd.	25.4	
Reinforcement Bars, Epoxy Coated		Pound	3,280	
Bar Splicers		Each	14	
Geocomposite Wall Drain		Sq. Yd.	38	
Granular Backfill for Structures		Cu. Yd.	72.7	
Pipe Underdrains for Structures 4"		Foot	59	

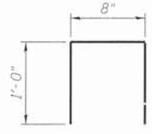


FIELD CUTTING DIAGRAM

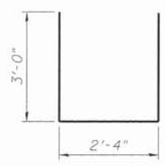
Order v5(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s2(E)



BAR s3(E)



BAR u1(E)

NOTES:

Pour steps monolithically with cap.

For Bar Splicer details, see Structural Sheet 30 of 37.

All exposed edges shall have standard ¾" chamfers, except as noted.

L 2"x2"x¼" shown in Section A-A shall be included in cost of Furnishing & Erecting Structural Steel.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT DETAILS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 24 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	47
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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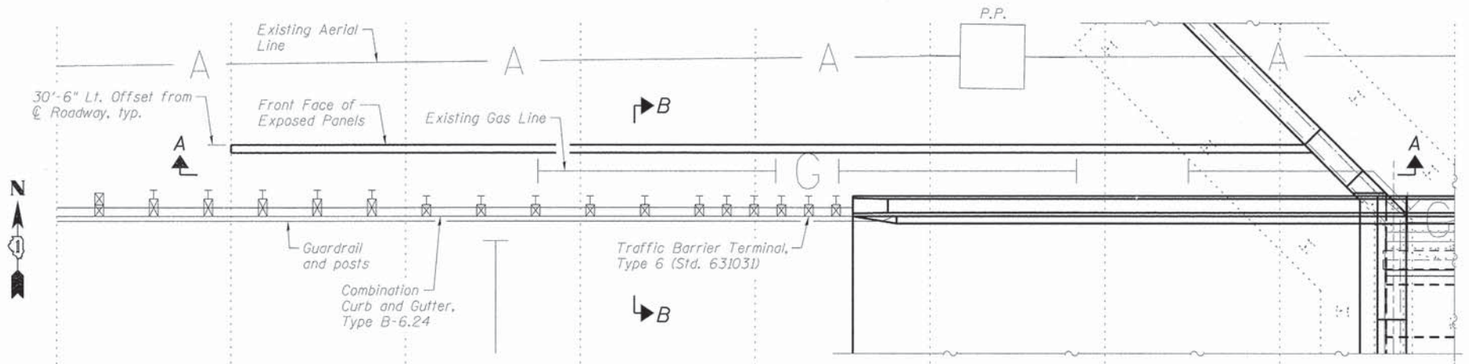
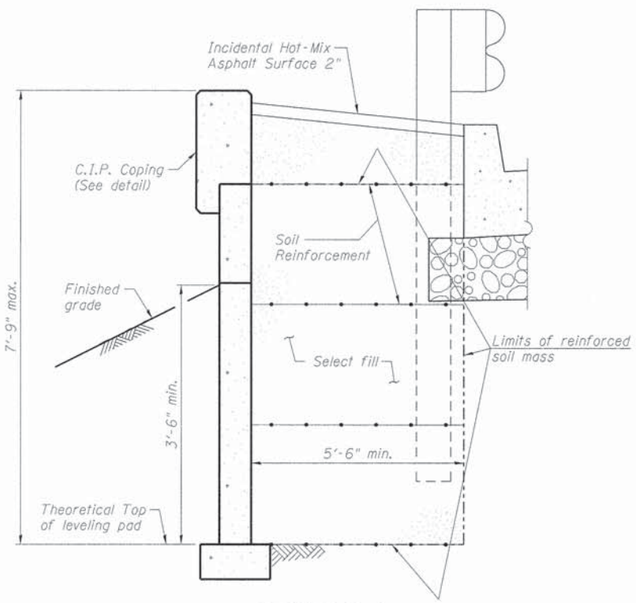
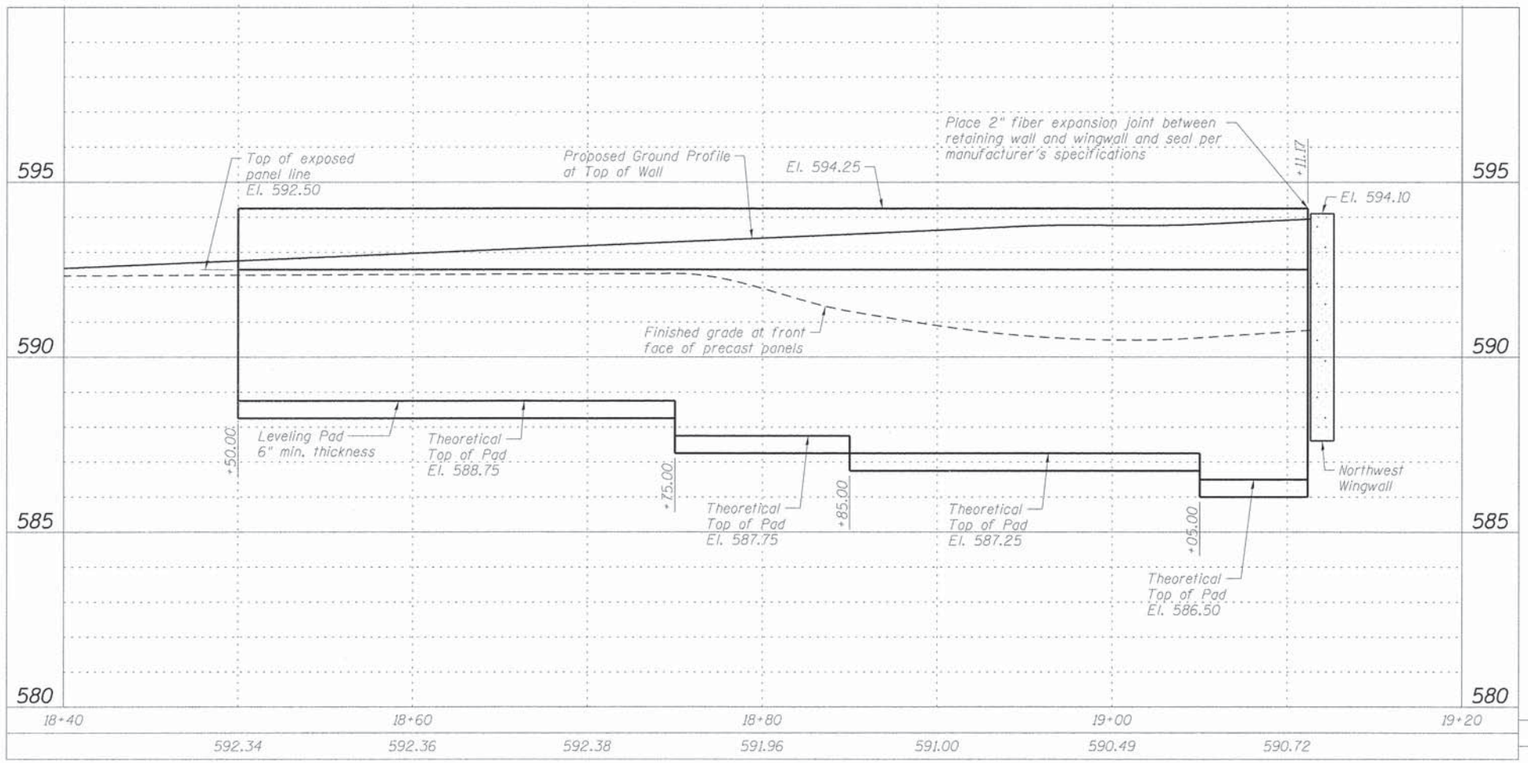


PLAN VIEW



SECTION B-B



SECTION A-A

COPING DETAIL

BILL OF MATERIAL

Item	Unit	Quantity
Structure Excavation	Cu. Yd.	46.3
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	283

NOTES:

Contractor shall verify all elevations, dimensions and manufacturer's specifications prior to constructing wall.

The MSE wall, in combination and coordination with guardrail posts, shall accommodate AASHTO's Traffic Railing test-level forces. See Special Provisions.

FILE = S:\PROJECTS\2014\1304014-Jalie\DESIGN\STRUCT\20_Drawings\1304014_MSE Wall Details - Northwest.dgn

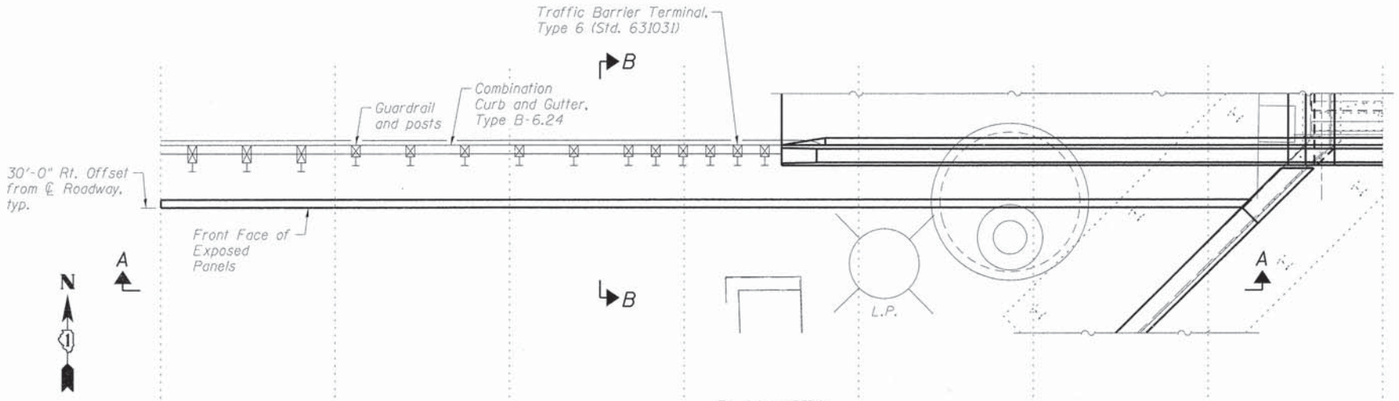
WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0357
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - PETER PASCUA		REVISED -
CHECKED - BRIAN CONVERSE		REVISED -
DRAWN - RON ALLEN		REVISED -
CHECKED - BRIAN CONVERSE		REVISED -

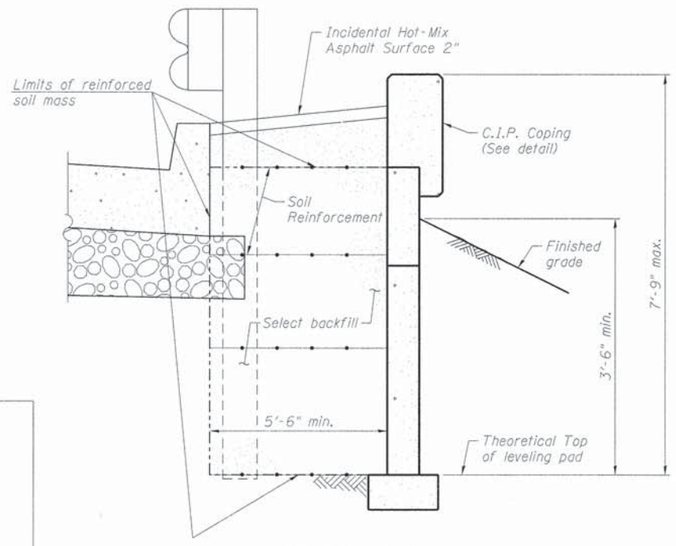
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE WALL DETAILS – NORTHWEST
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 25 OF 37 SHEETS

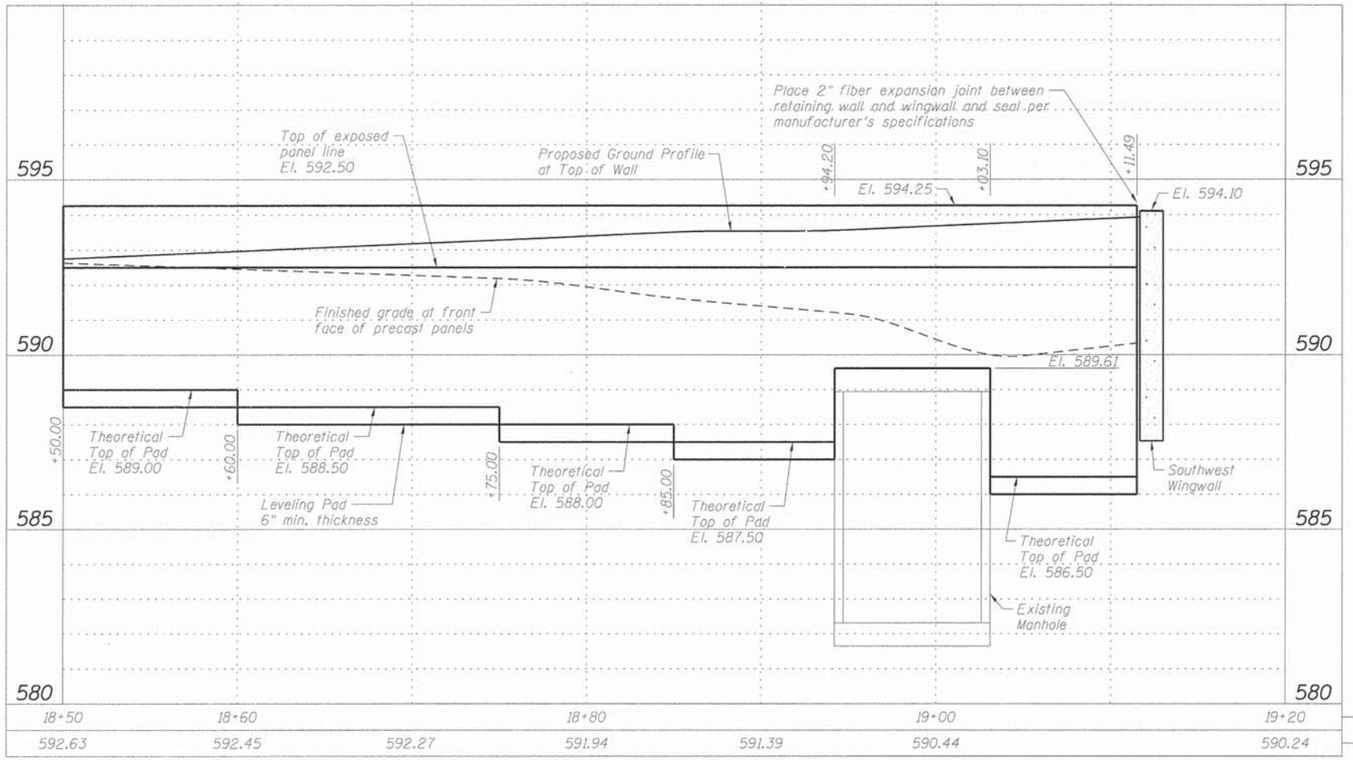
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	48
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



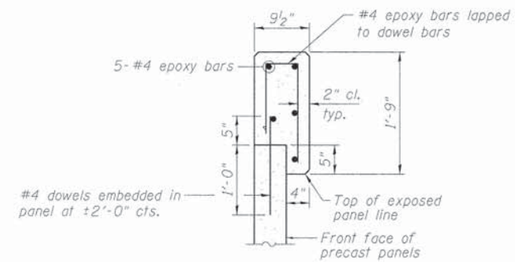
PLAN VIEW



SECTION B-B



SECTION A-A



COPING DETAIL

BILL OF MATERIAL

Item	Unit	Quantity
Structure Excavation	Cu. Yd.	42.2
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	530

NOTES:

Contractor shall verify all elevations, dimensions and manufacturer's specifications prior to constructing wall.

The MSE wall, in combination and coordination with guardrail posts, shall accommodate AASHTO's Traffic Railing test-level forces. See Special Provisions.

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184.000918

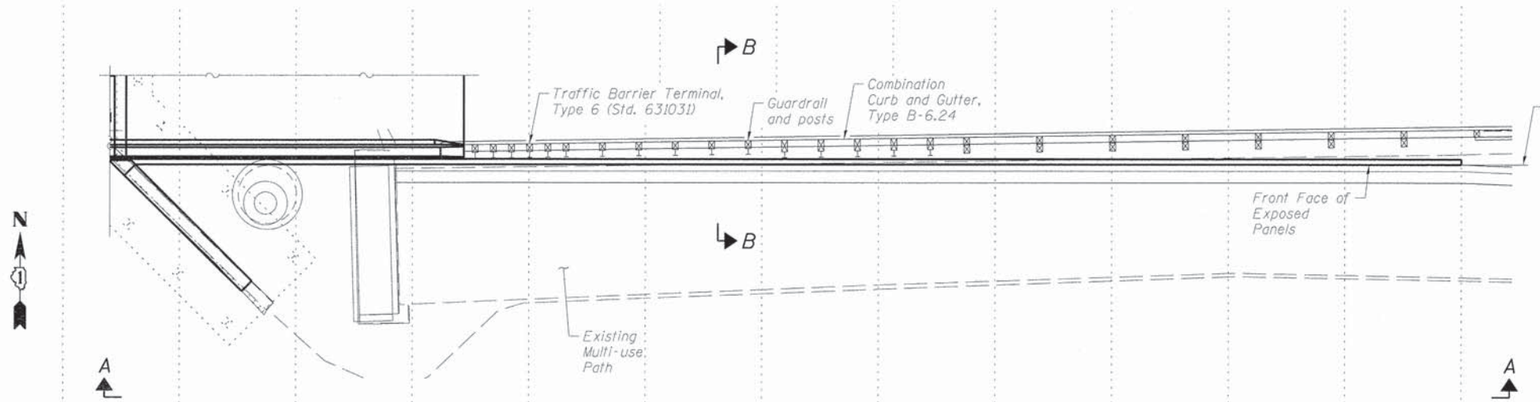
DESIGNED - PETER PASCUA	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	
DRAWN - RON ALLEN	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

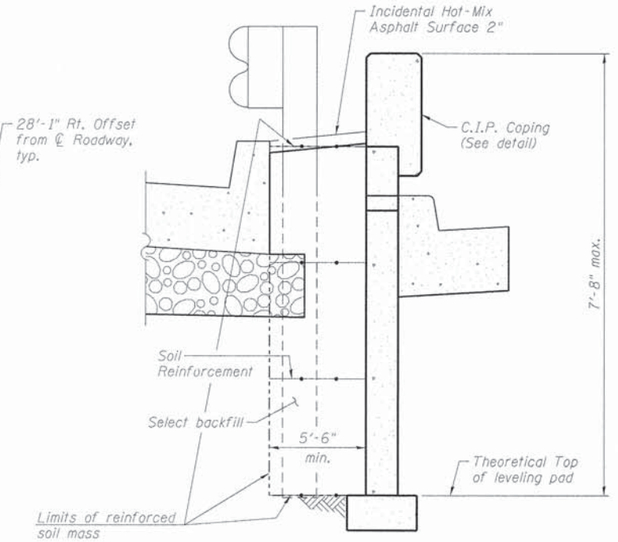
MSE WALL DETAILS – SOUTHWEST
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 26 OF 37 SHEETS

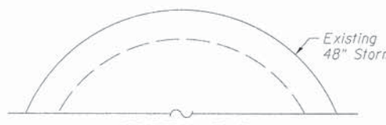
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	49
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

FILE = S:\PROJECTS\2014\134014 Joliet\DESIGN\STRUCTURE\20-Drawings\134014 MSE Wall Details - Southwest.dgn

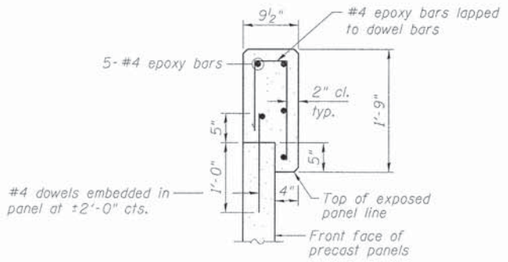


PLAN VIEW





SECTION B-B



COPING DETAIL

SECTION A-A

BILL OF MATERIAL

Item	Unit	Quantity
Structure Excavation	Cu. Yd.	90.1
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	262

NOTES:

Contractor shall verify all elevations, dimensions and manufacturer's specifications prior to constructing wall.

The MSE wall, in combination and coordination with guardrail posts, shall accommodate AASHTO's Traffic Railing test-level forces. See Special Provisions.

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #124-000918

DESIGNED	PETER PASCUA	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -
DRAWN	RON ALLEN	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE WALL DETAILS – SOUTHEAST
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 27 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	50
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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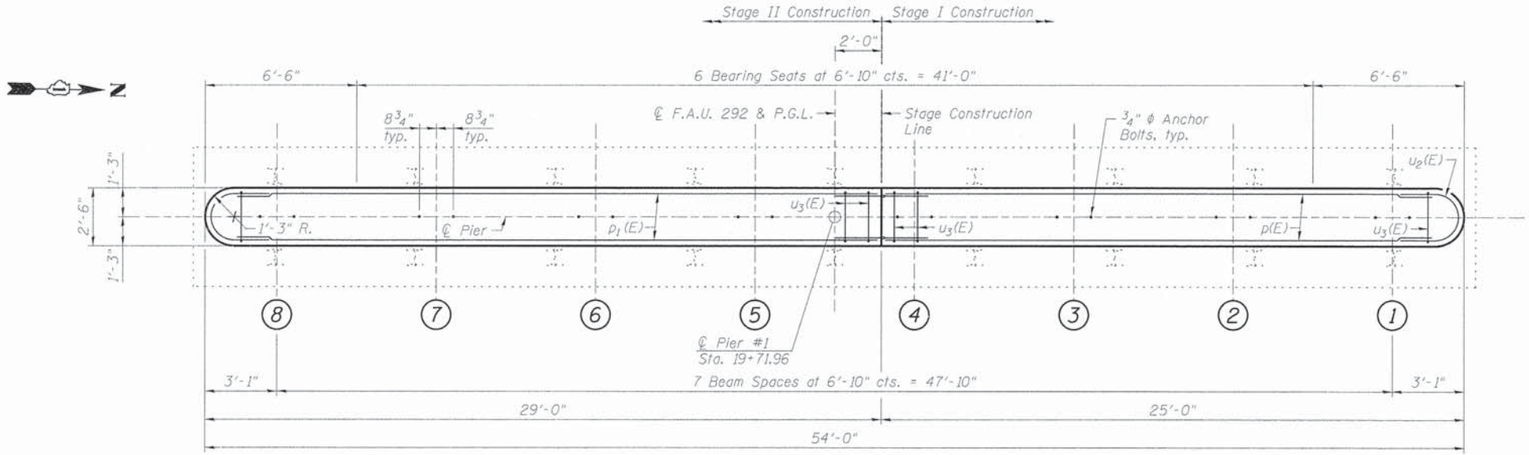
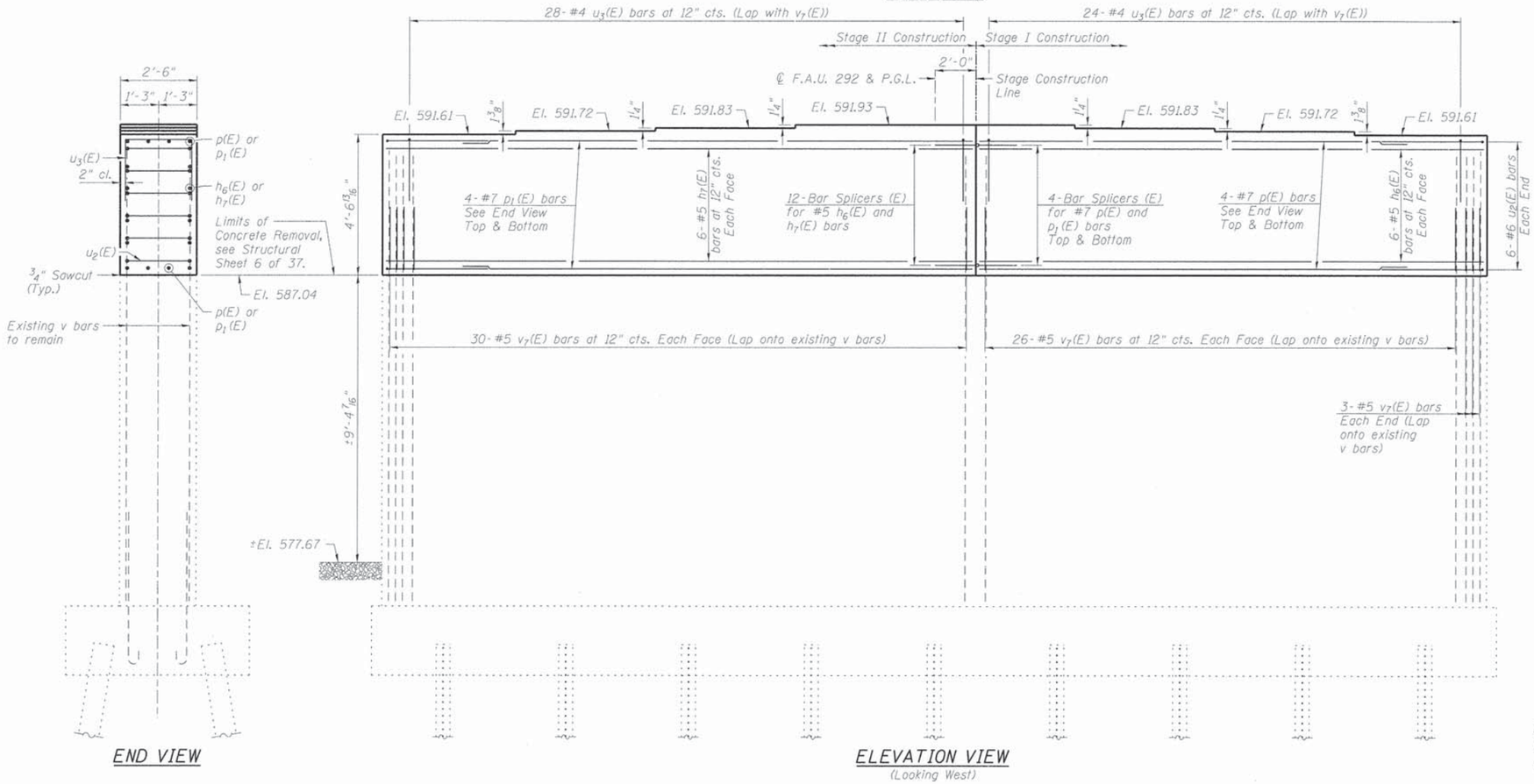
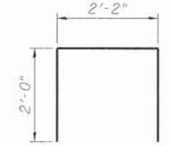


PLAN VIEW

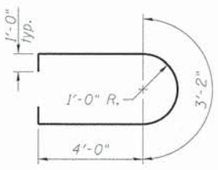


END VIEW

ELEVATION VIEW
(Looking West)



BAR u3(E)



BARS u2(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h6(E)	12	#5	23'-7"	—
h7(E)	12	#5	27'-7"	—
p(E)	8	#7	23'-7"	—
p1(E)	8	#7	27'-7"	—
u2(E)	12	#6	13'-2"	⊃
u3(E)	52	#4	6'-2"	⊓
v7(E)	112	#5	4'-3"	—
Concrete Structures			Cu. Yd.	23.4
Reinforcement Bars, Epoxy Coated			Pound	2,430
Bar Splicers			Each	20

NOTES:

For Bar Splicer Details, see Structural Sheet 30 of 37.

For existing pier plans, see Structural Sheet 36 of 37.

FILE = S:\PROJECTS\2014\13B4014\Design\13B4014_Pier 1 Details.dgn

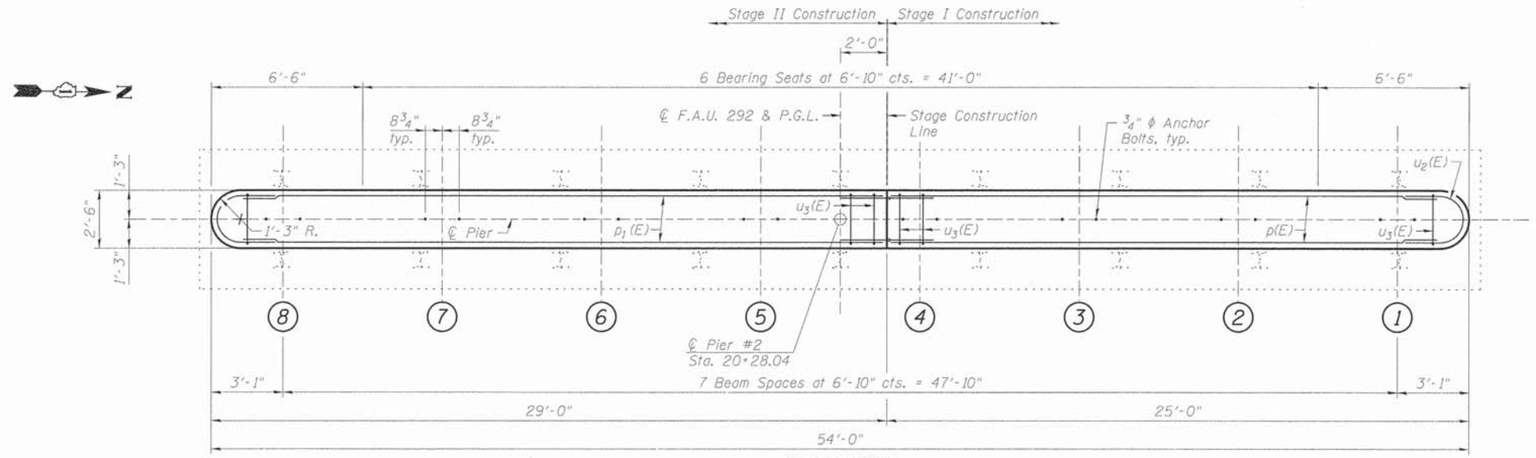
WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - PETER PASCUA	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	
DRAWN - RON ALLEN	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	

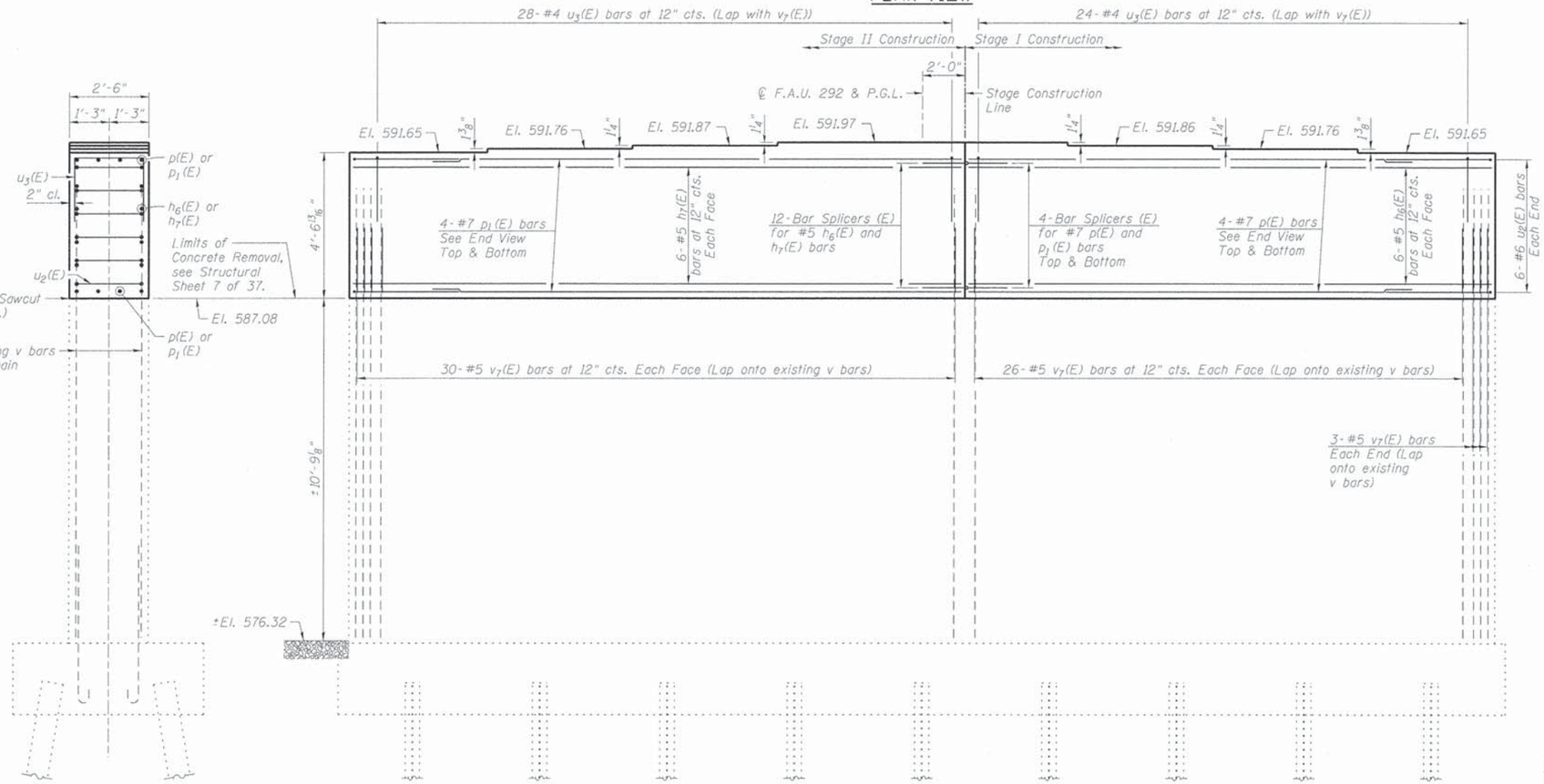
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER #1 DETAILS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 28 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	51
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

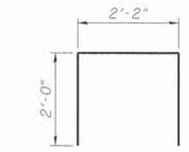


PLAN VIEW

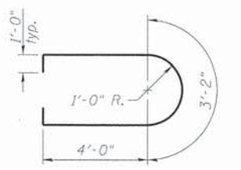


END VIEW

ELEVATION VIEW
(Looking West)



BAR u3(E)



BARS u2(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_6(E)$	12	#5	23'-7"	—
$h_7(E)$	12	#5	27'-7"	—
p(E)	8	#7	23'-7"	—
$p_1(E)$	8	#7	27'-7"	—
$u_2(E)$	12	#6	13'-2"	U
$u_3(E)$	52	#4	6'-2"	⊓
$v_7(E)$	112	#5	4'-3"	—
Concrete Structures			Cu. Yd.	23.4
Reinforcement Bars, Epoxy Coated			Pound	2,430
Bar Splicers			Each	20

NOTES:

For Bar Splicer Details, see Structural Sheet 30 of 37.

For existing pier plans, see Structural Sheet 37 of 37.

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T. 815-284-3381 DESIGN FIRM: #184-000918

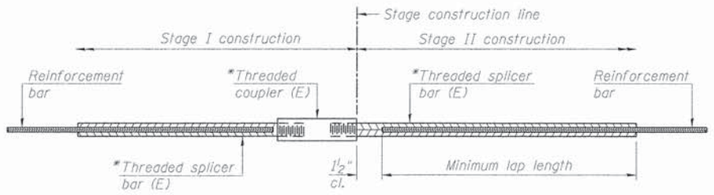
DESIGNED	PETER PASCUA	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -
DRAWN	RON ALLEN	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER #2 DETAILS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 29 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	52
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

FILE = S:\PROJECTS\2014\1304014_Joliet\DESIGN\STRUCT\2D_Drawings\1304014_Pier 2 Details.dgn



STANDARD BAR SPLICER ASSEMBLY

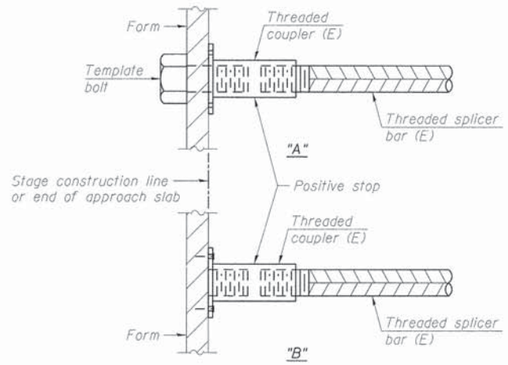
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C
Table 5: Epoxy bar, Class C
Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1½" + thread length

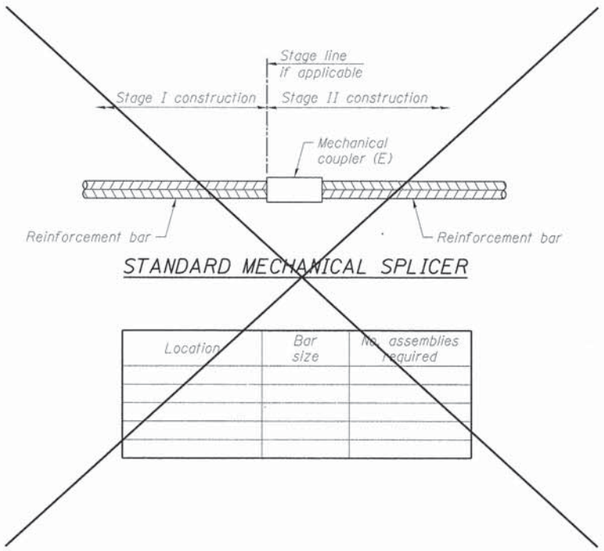
*Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	552	6
Abut. Diaphragm	#6	8	6
E. & W. Approach	#4	50	6
W. & E. Approach	#5	92	6
W. Approach Footing	#5	42	6
E. Approach Footing	#5	42	6
W. Abutment	#7	12	6
W. Abutment	#5	2	6
E. Abutment	#7	12	6
E. Abutment	#5	2	6
Pier #1	#7	8	6
Pier #1	#5	12	6
Pier #2	#7	8	6
Pier #2	#5	12	6



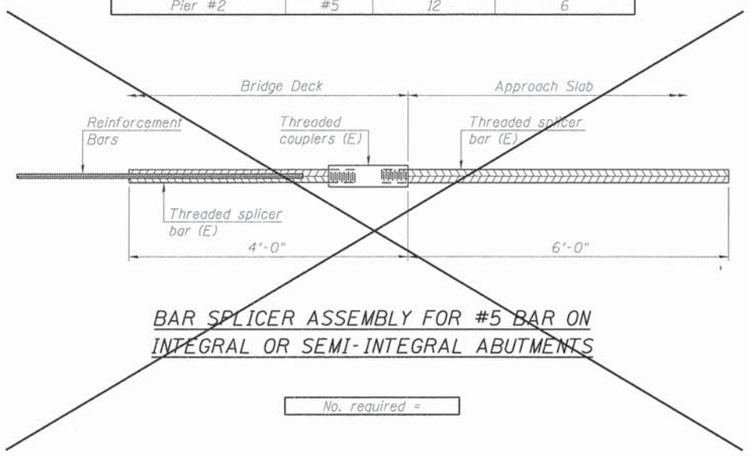
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



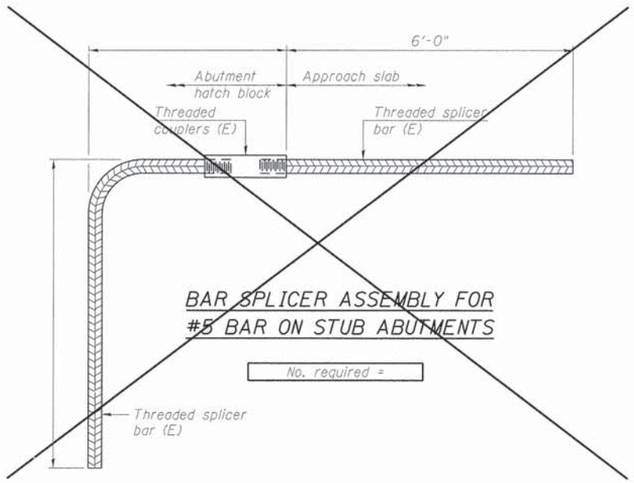
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See special provision for Mechanical Splicers.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE = S:\PROJECTS\2014\1304014-Joliet\DESIGN\STRUCTURES\Dr-awings\1304014_Bar Splicer Assembly and Mechanical Splicer Details.dgn

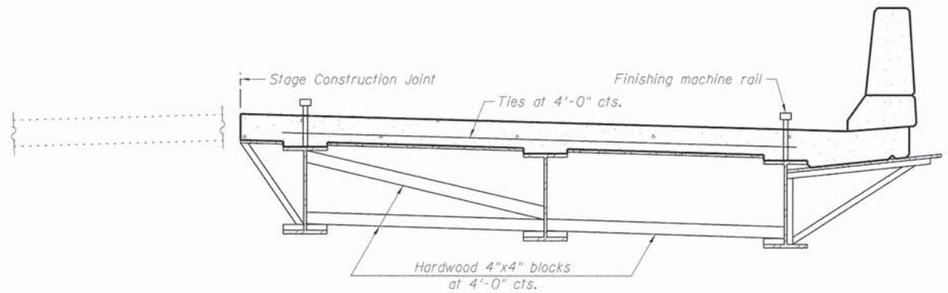
WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
899 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-002918

DESIGNED	PETER PASCUA	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -
DRAWN	RON ALLEN	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -

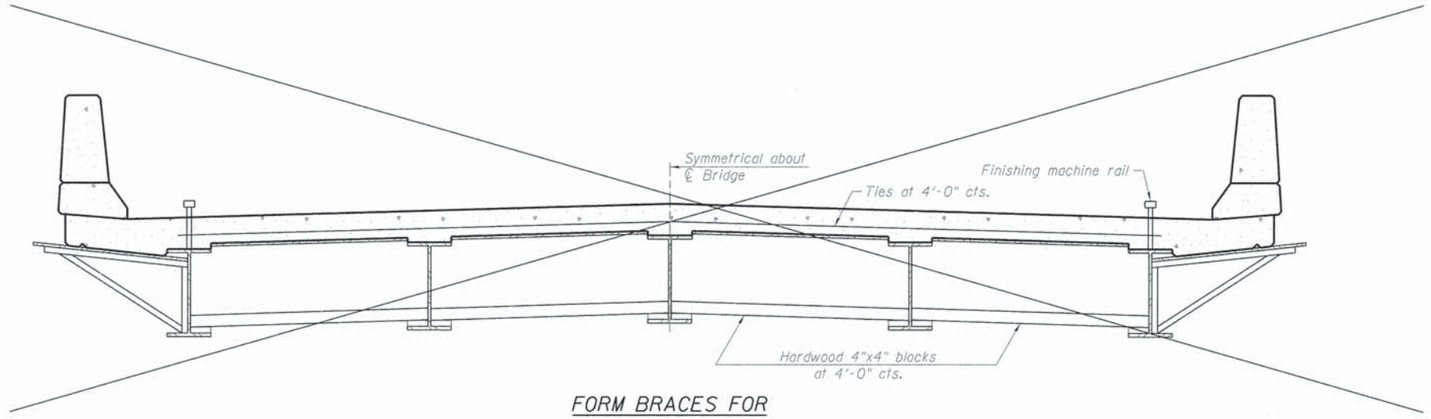
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 30 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	53
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



FORM BRACES FOR
STAGE CONSTRUCTION



FORM BRACES FOR
STANDARD CONSTRUCTION

NOTES:

When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.

The finishing machine rails shall be placed on the top flange of the exterior beams.

The beams or girders, supporting cantilever forming brackets, shall be tied together at 4'-0" intervals.

For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED -	PETER PASCUA	REVISED -
CHECKED -	BRIAN CONVERSE	REVISED -
DRAWN -	RON ALLEN	REVISED -
CHECKED -	BRIAN CONVERSE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER FORMING BRACKETS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 31 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	54
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

FILE = S:\PROJECTS\2014\1324014_Joliet\DESIGN\STRUCTURES\Drawings\1324014_Cantilever Forming Brackets.dgn

PROJECT SEC. 78-00070-01-BR, CATON FARM ROAD OVER DU PAGE RIVER, WILL COUNTY, I
CLIENT TEST. ENGINEERS, INC., P. O. BOX 54 IXON, ILLINOIS 61021
BORING 1 DATE STARTED 10-20-78 DATE COMPLETED 10-20-78 JOB 16,089
Station 2482, 5.5' Left
ELEVATIONS
WATER TABLE
GROUND SURFACE 592.1 AT END OF BORING
END OF BORING 554.1 24 HOURS
While Drilling -14.0'

LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	%DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
							2"		Asphalt Pavement
	1	SS	7	24.9		100.6			FILL - Loose SAND, GRAVEL, CLAY
	2	SS	4	29.6					
	3	SS	4	31.6			6.0	586.1	
	4	SS	7	33.8					Loose to very loose gray sandy CLAY LOAM with organic clay layers, very moist
	5	SS	3	78.4			13.0	579.1	
	6	SS	3						Very loose SAND and GRAVEL, very moist
	7	SS	13	37.2			16.0	576.1	
	8	SS	15						Firm gray and brown SAND and GRAVEL with organic clay layers, very moist
	9	SS	20				20.5	571.6	
	10	SS	13	23.7					Firm gray silty LOAM with clay layers, very moist
	11	SS	11	21.8					
	12	SS	24						
	13	SS	24				32.5	559.6	
	14	SS	100/0"						Very dense gray medium to coarse SAND and weathered LIMESTONE
	15	SS	100/0"				35.5	556.6	Weathered LIMESTONE
									NOTE: Auguer refusal at 38.0 feet due to boulder or top limeston

End of Boring at 38.0 feet
DRILL RIG NO. _____
TESTING SERVICE CORPORATION

PROJECT SEC. 78-00070-01-BR, CATON FARM ROAD OVER DU PAGE RIVER, WILL COUNTY, I
CLIENT TEST. ENGINEERS, INC., P. O. BOX 54 IXON, ILLINOIS 61021
BORING 2 DATE STARTED 10-19-78 DATE COMPLETED 10-19-78 JOB 16,08
Station 3+51.5, 5.5' Right
ELEVATIONS
WATER TABLE
GROUND SURFACE 592.4 AT END OF BORING
END OF BORING 552.4 24 HOURS
While Drilling -13.5'

LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	%DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
							1.0	591.4	Bridge Deck
									Air Void
							12.5	579.9	
							13.5	578.9	Water (DuPage River)
	1	SS	30						
	2	SS	35						Dense brown and gray fine to coarse SAND with small to medium gravel, moist
	3	SS	31						
	4	SS	8	22.6			21.0	571.4	
	5	SS	10	26.3					Loose to firm gray silty LOAM, moist
	6	SS	24				25.5	566.9	
	7	SS	23						Firm gray SILT, moist
	8	SS	25						
	9	SS	24						
	10	SS	100/2"				36.0	556.4	Weathered Limestone
	11	SS	100/0"						

End of Boring at 40.0 feet
DRILL RIG NO. 53
TESTING SERVICE CORPORATION
NOTE: Auger refusal at 40.0 feet due to boulder or top of limestone.

PROJECT SEC. 78-00070-01-BR, CATON FARM ROAD OVER DU PAGE RIVER, WILL COUNTY, IL
CLIENT TEST. ENGINEERS, INC., P. O. BOX 54 IXON, ILLINOIS 61021
BORING 3 DATE STARTED 10-20-78 DATE COMPLETED 10-20-78 JOB 16,08
STATION 4+08, 5.5' Left
ELEVATIONS
WATER TABLE
GROUND SURFACE 592.4 AT END OF BORING -12.5'
END OF BORING 552.4 24 HOURS
While Drilling -12.5'

LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	%DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
							1.0	591.4	Bridge Deck
									Air Void
							12.5	579.9	Water (DuPage River)
	1	SS	12				16.5	575.9	Firm brown and black fine to coarse SAND and GRAVEL, wet (saturated)
	2	SS	13				21.0	571.4	Firm to dense gray SILT, wet (saturated)
	3	SS	25						
	4	SS	37						
	5	SS	21						
	6	SS	10				31.0	561.4	Firm gray fine to coarse SAND, trace gravel, wet (saturated)
	7	SS	92				32.5	559.9	Dense gray medium to coarse SAND and GRAVEL, some clay, occasional cobbles, wet (saturat
	8	SS	100/0"						
	9	SS	100/0"				37.5	554.9	Weathered LIMESTONE & BOULDERS

End of Boring at 40.0 feet
DRILL RIG NO. _____
TESTING SERVICE CORPORATION
NOTE: Auger refusal at 40.0 feet due to boulder or top of limestone

PROJECT SEC. 78-00070-01-BR, CATON FARM ROAD OVER DU PAGE RIVER, WILL COUNTY, I
CLIENT TEST. ENGINEERS, INC., P. O. BOX 54 IXON, ILLINOIS 61021
BORING 4 DATE STARTED 10-18-78 DATE COMPLETED 10-18-78 JOB 16,08
Station 4+71.5, 5.5' Right
ELEVATIONS
WATER TABLE
GROUND SURFACE 592.0 AT END OF BORING
END OF BORING 538.0 24 HOURS
While Drilling -12.0'
Page 1 of 2

LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	%DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
							2"		Asphalt Pavement
	1	SS	14						FILL - SAND, GRAVEL, some clay
	2	SS	11						
	3	SS	13						
	4	SS	15						
	5	SS	9				11.0	581.0	Loose to firm brown fine to coarse SAND and GRAVEL, wet (saturated)
	6	SS	11						
	7	SS	18				16.0	576.0	Firm brown medium to coarse SAND and GRAVEL, wet (saturated)
	8	SS	18						
	9	SS	27				22.5	569.5	
	10	SS	25						Firm gray SILT, wet (saturated)
	11	SS	16						
	12	SS	20						
	13	SS	22						
	14	SS	11				35.5	556.5	
	15	Core	Cored 4.5 feet Core 33% Recovery						Weathered LIMESTONE, some boulders

DRILL RIG NO. 53
TESTING SERVICE CORPORATION
Continued on Next Page

PROJECT SEC. 78-00070-01-BR, CATON FARM ROAD OVER DU PAGE RIVER, WILL COUNTY, IL
CLIENT TESTIN GINEERS, INC., P. O. Box 548, XON, ILLINOIS 61021
BORING A (Cont.) DATE STARTED 10-18-78 DATE COMPLETED 10-18-78 JOB 16,08
Station 4+71.5, 5.5' Right
ELEVATIONS
WATER TABLE
GROUND SURFACE 592.0 AT END OF BORING
END OF BORING 538.0 24 HOURS
While Drilling -12.0'
Page 2 of 2

LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Q_u	%DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
	16	SS	103						Very dense SILT with limestone and boulders
	17	SS	100/2"				45.0	547.0	
	18	Core	Cored 9.0 Feet Core 100% Recovery RQD = 69%						Light gray and white fine crystalline DOLOMITE, frequent chert modules up to 1". Few very small vugs, very slightly fossiliferous (coral), trace pyrite in seams. Highly broken area from 47'9" to 48'9".
			End of Boring at 54.0 feet						

DRILL RIG NO. 53
TESTING SERVICE CORPORATION

GENERAL NOTES:

Borings taken in 1978.

Current backfill is porous granular material (Max. ϕ = 30°).

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED	PETER PASCUA	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -
DRAWN	RON ALLEN	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BORINGS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 32 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	55
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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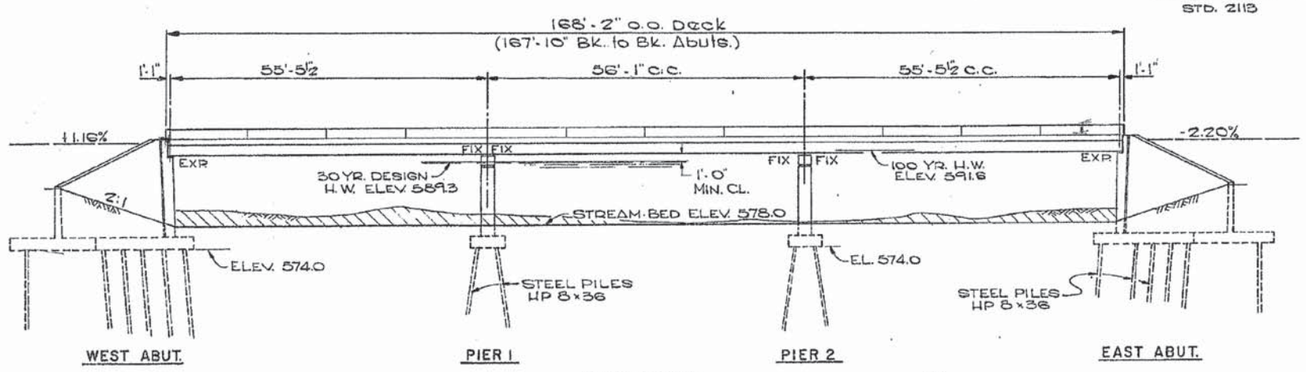
F.A.S. RTE. NO.	SECTION 78-00074-01-BR	SHEETS	NO.
300	COUNTY WILL	15	5
ILLINOIS PROJECT RS 300 ( )			

BENCH MARK: Top of North West Wing, Exist. Bridge ℄ 14' Lt. Sta. 2+92.5 Elev. 592.11

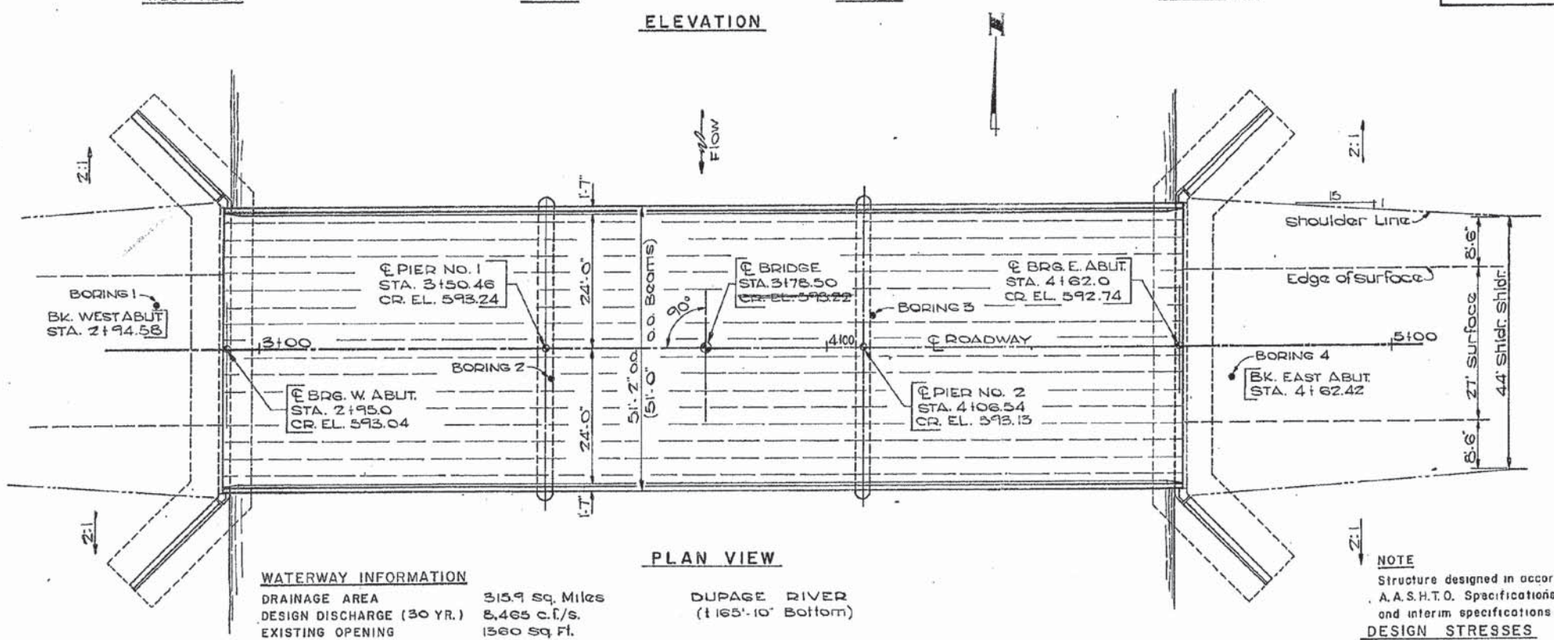
EXISTING STRUCTURE:
A 4 span (4@43') R.C. Deck Girder on solid concrete piers and closed concrete abutments and wings. 24' roadway with concrete rails. Built 1934 as Sec. 47-B-MFT To be removed by Contractor, no salvage.

DUPAGE RIVER
BUILT 1979
F.A. PROJ. RS-300 (104)
F.A.S. RT. 300
SEC. 78-00074-01-BR
LOADING HS 20
STR. NO.

NAME PLATE LETTERING
STD. 2118



ELEVATION



PLAN VIEW

DUPAGE RIVER
(℄ 165'-10" Bottom)

WATERWAY INFORMATION

DRAINAGE AREA	315.9 Sq. Miles
DESIGN DISCHARGE (30 YR.)	5,465 c.f/s.
EXISTING OPENING	1360 Sq. Ft.
REQUIRED OPENING	1835 Sq. Ft.
PROPOSED OPENING	1835 Sq. Ft.
CREATED HEAD (30 YR.)	0.1 Foot
100 YR. DISCHARGE	13,450 c.f/s.
CREATED HEAD (100 YR.)	0.4 Foot.
HIGH WATER ELEV. (100 YR.)	591.6

FOR INFORMATION ONLY

LOADING HS 20 - 44

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUB.	SUPER.	TOTAL
COFFERDAMS	EACH	4		4
COFFERDAM EXCAVATION	CU.YDS.	1030		1030
REMOVAL OF EXISTING STRUCTURES	EACH			1
BITUMINOUS CONC. SURF. COURSE, MIXTURE D, CL. I	TONS		100	100
PROTECTIVE COAT	SQ.YDS.		140	140
CLASS X CONCRETE	CU.YDS.	489.9	40.2	530.1
PRECAST PRESTRESSED CONC. DECK BMS. (21")	SQ. FT.		8568	8568
FURNISHING AND ERECTING STRUCTURAL STEEL	LBS.		3400	3400
REINFORCEMENT BARS	LBS.	36860	3610	40,470
REINFORCEMENT BARS (EPOXY COATED)	LBS.		360	360
STEEL PILES HP 8x36	LIN. FT.	2040		2040
TEST PILES - STEEL HP 8x36	EACH	2		2
NAME PLATES	EACH		1	1
PORTLAND CEMENT MORTAR FAIRING COURSE	LIN. FT.		1344	1344
WATERPROOFING MEMBRANE SYSTEM	SQ.YDS.		897	897

GENERAL NOTES

See Special Provisions for Boring Data.

All structural steel shall be shop painted with two coats of basic lead silico chromate paint.

The top surface of the beams shall be finished in accordance with Article 508.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.

The concrete rail section above the deck beams shall be constructed of Class X concrete except the aggregates shall conform to the requirements of Handrail Concrete.

Protective coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

Expansion guards which are not cast into the bms. shall be fabricated and erected in accordance with Article 503.07(c) of the Standard Specifications

Contractor shall drive one steel HP 8x36 test pile in a permanent location at Pier No. 2 and West Abutment as directed by the Engineer before ordering the remainder of piles.

Reinforcement bars shall conform to AASHTO: M-31 or M-53, Grade 60.

The thickness of the bituminous concrete surface course shall be varied to fit the proposed profile using a predicted beam camber of 0.5 inches.

The back of the abutments and wing walls shall be waterproofed in accordance with Art. 503.11 of the Standard specifications, from the top of footing to ground surface.

NOTE
Structure designed in accordance with A.A.S.H.T.O. Specifications dated 1977 and interim specifications dated 1978.

DESIGN STRESSES

FIELD UNITS	SHOP - PRESTR. BEAMS
fs = 24,000 p.s.i.	f'c = 5,000 p.s.i.
fc = 1,400 p.s.i.	f'ci = 4,500 p.s.i.
	f's = 270,000 p.s.i.
V = 56 p.s.i.	f'si = 189,000 p.s.i.
n = 9	

SECTION 78-00074-01-BR
F.A.S. RTE. 300 CATON FARM ROAD
DUPAGE RIVER
WILL COUNTY

GENERAL PLAN AND ELEVATION

DESIGNED BY: B. THOMPSON DATE: DEC. '78
DRAWN BY: P.D.L. & D.S. DATE: FEB. '79
CHECKED BY: D.E. HUFFMAN DATE: FEB. '79
APPROVED BY: DATE:

WILLETT HOFMANN & ASSOCIATES, Inc.
Consulting Engineers
4/6/79

JOB/FILE NO. 78-00111-02-BR SHEET NO. OF SHEETS

TRI-CITY BLUE #620W

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED	PETER PASCUA	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -
DRAWN	RON ALLEN	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 33 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	56
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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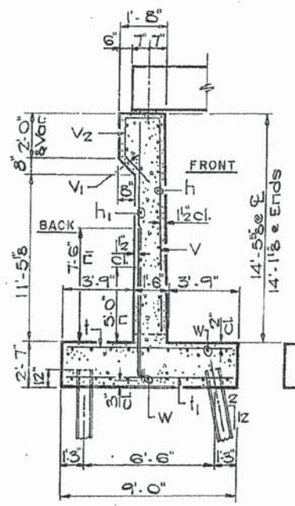
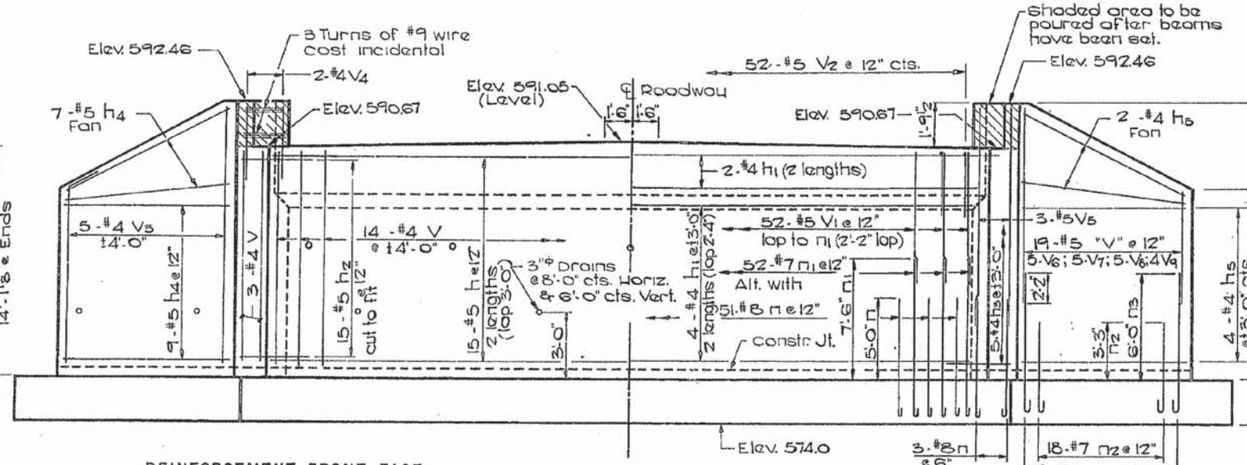


SECTION THRU ABUTMENT

PILE DATA

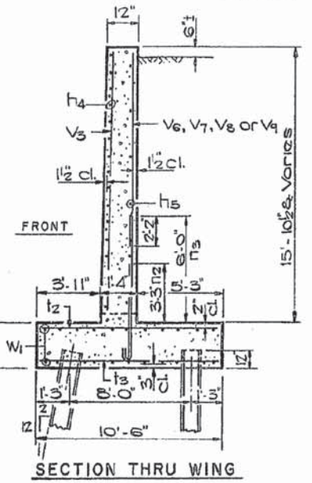
TYPE ..... Steel HP 8×36
CAPACITY. .... Drive to refusal
EST. LENGTH... 20' Feet
NO. REQ'D. ..... 33 Plus one Test Pile



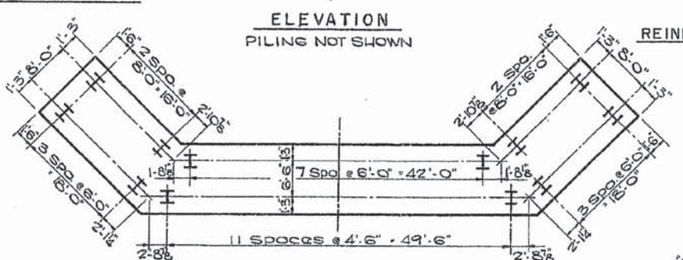
REINFORCEMENT FRONT FACE

ELEVATION
PILING NOT SHOWN

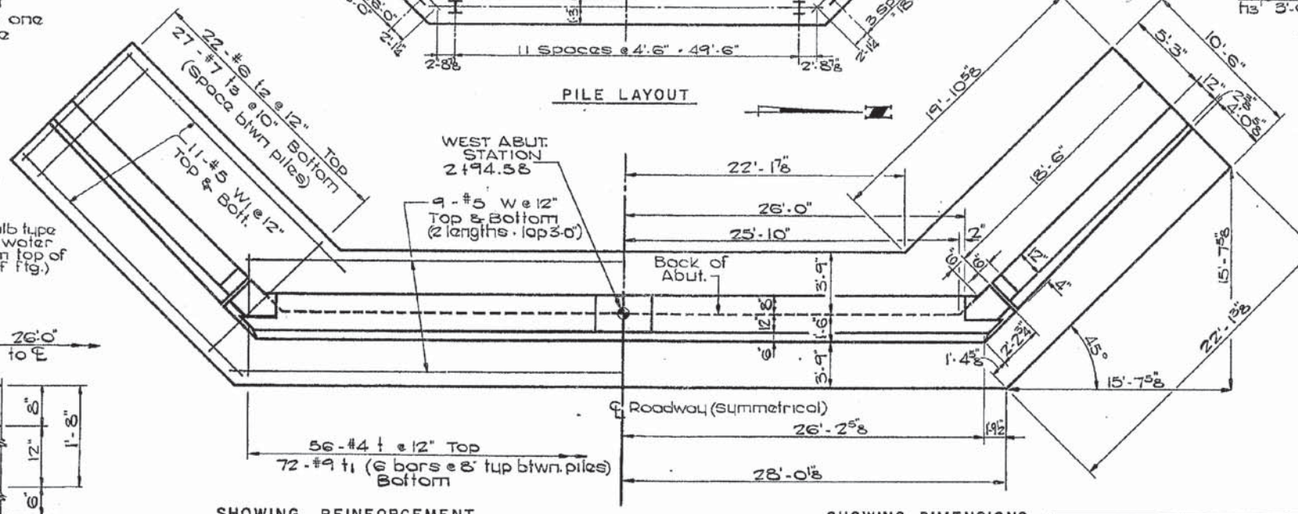
REINFORCEMENT BACK FACE



SECTION THRU WING



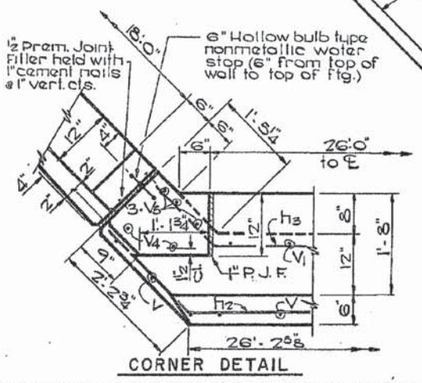
PILE LAYOUT



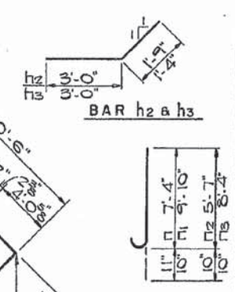
SHOWING REINFORCEMENT

PLAN VIEW

SHOWING DIMENSIONS



CORNER DETAIL



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	30	#5	27'-6"	
h1	12	#4	27'-0"	
h2	30	#5	4'-9"	
h3	10	#4	4'-4"	
h4	32	#5	18'-3"	
h5	12	#4	18'-3"	
n	57	#8	8'-3"	
n1	52	#7	10'-8"	
n2	36	#7	6'-5"	
n3	38	#7	9'-2"	
t	56	#4	8'-9"	
t1	72	#9	8'-9"	
t2	44	#6	10'-3"	
t3	54	#7	10'-3"	
V	20	#4	13'-6"	
V1	52	#5	9'-0"	
V2	52	#5	4'-6"	
V3	10	#4	15'-0"	
V4	4	#4	3'-0"	
V5	6	#5	12'-10"	
V6	10	#5	12'-0"	
V7	10	#5	10'-3"	
V8	10	#5	8'-6"	
V9	8	#5	6'-9"	
W	36	#5	29'-6"	
W1	44	#5	22'-0"	

cl. X Concrete	CU YDS.	145.5
Reinforcement Bars	Lbs.	13,460
Cofferdam Excav.	CU YDS.	400
Steel Piles HP 8×36	Lin. Ft.	660
Test Piles (HP8×36)	EA.	1
cofferdam	EA.	1

FOR INFORMATION ONLY

WEST ABUTMENT
SECTION 78-00074-01-BR
CATON FARM ROAD
WILL COUNTY

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000915

DESIGNED	PETER PASCUA	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -
DRAWN	RON ALLEN	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 34 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	57
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

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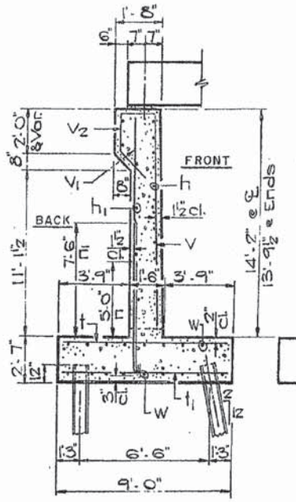
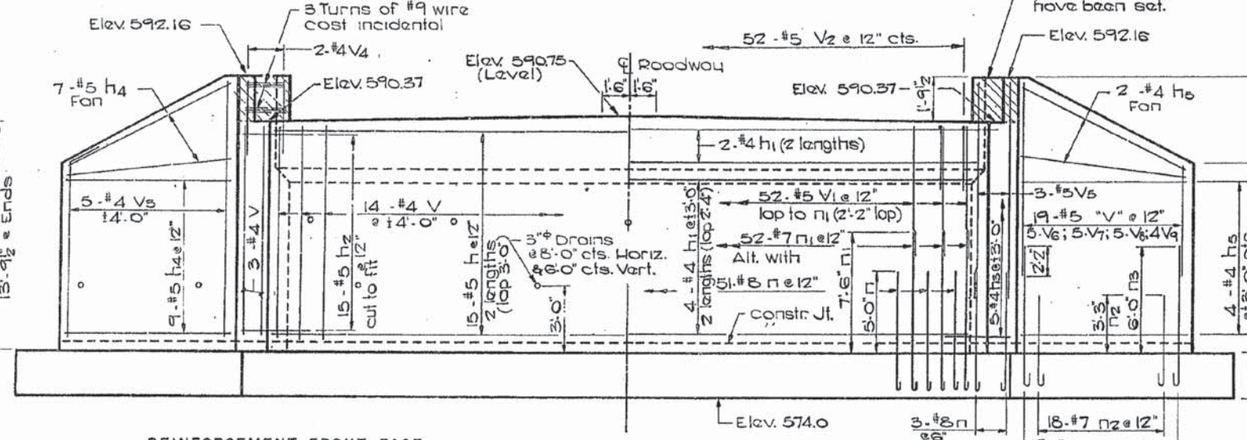
F.A.S. RTE. NO.	SECTION 78-00074-01-BR	TOTAL SHEETS	SHEET NO.
300	COUNTY WILL	15	9
ILLINOIS PROJECT RS 300( )			



SECTION THRU ABUTMENT

PILE DATA

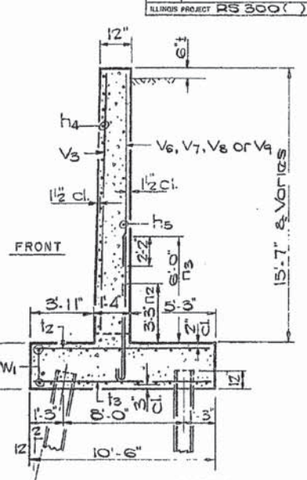
TYPE ..... Steel HP 8×36
CAPACITY. .... Drive to refusal
EST. LENGTH... 20' Feet
NO. REQ'D. 34



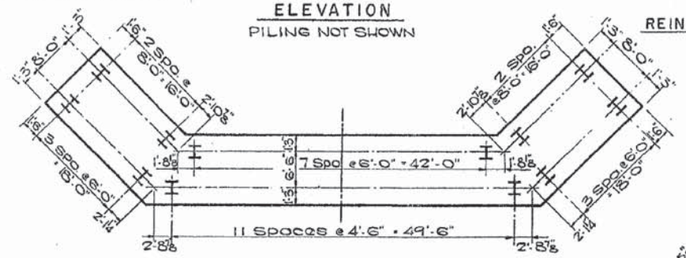
REINFORCEMENT FRONT FACE

ELEVATION
PILING NOT SHOWN

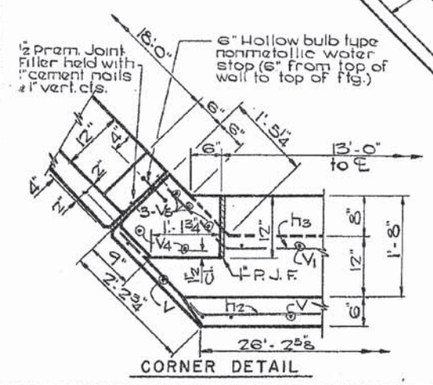
REINFORCEMENT BACK FACE



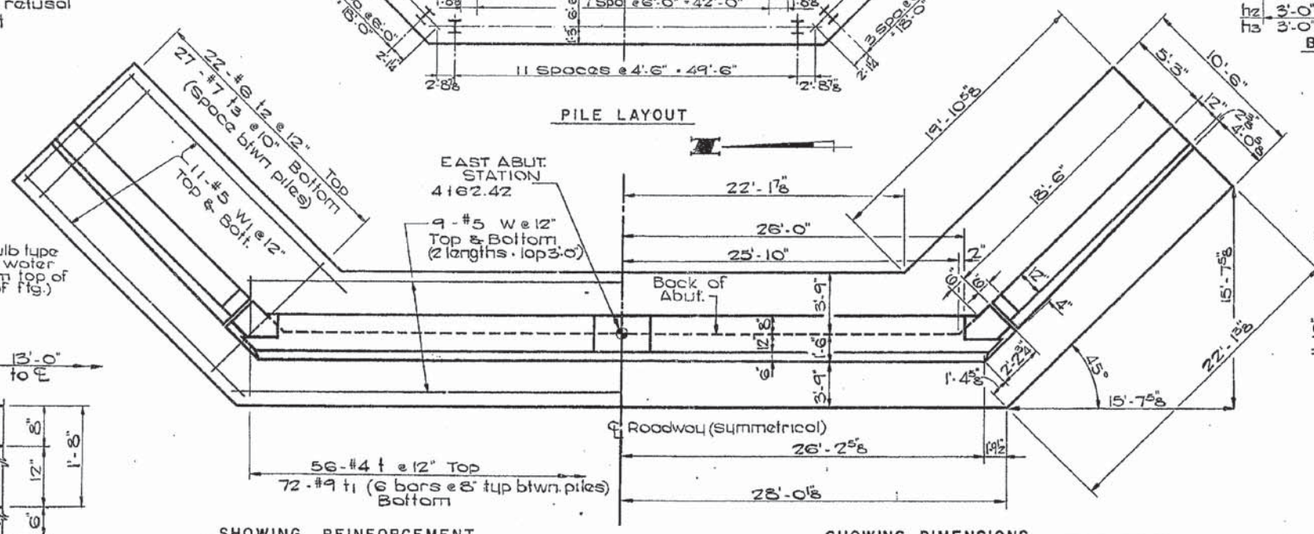
SECTION THRU WING



PILE LAYOUT



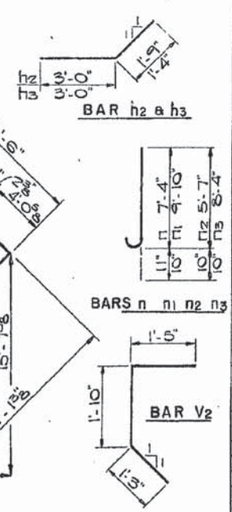
CORNER DETAIL



SHOWING REINFORCEMENT

PLAN VIEW

SHOWING DIMENSIONS



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	30	#5	27'-6"	
h1	12	#4	27'-0"	
h2	30	#5	4'-9"	
h3	10	#4	4'-4"	
h4	52	#5	16'-3"	
h5	12	#4	16'-3"	
n	57	#8	8'-3"	
n1	52	#7	10'-8"	
n2	36	#7	6'-5"	
n3	28	#7	9'-2"	
t	56	#4	8'-9"	
t1	72	#9	8'-9"	
t2	44	#6	10'-3"	
t3	54	#7	10'-3"	
V	20	#4	13'-0"	
V1	52	#5	8'-8"	
V2	52	#5	4'-6"	
V3	10	#4	14'-6"	
V4	4	#4	3'-0"	
V5	6	#5	12'-4"	
V6	10	#5	11'-6"	
V7	10	#5	9'-9"	
V8	10	#5	8'-0"	
V9	8	#5	6'-3"	
W	36	#5	29'-6"	
W1	44	#5	22'-0"	

cl. X Concrete	Cu.Yds.	143.6
Reinforcement Bars	Lbs.	13,400
Cofferdam Excav.	Cu.Yds.	400
Steel Piles HP 8×36	Lin.Ft.	680
Cofferdam		1

FOR INFORMATION ONLY

EAST ABUTMENT
SECTION 78-00074-01-BR
CATON FARM ROAD
WILL COUNTY

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3361 DESIGN FIRM: #184-000915

DESIGNED - PETER PASCUA	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	
DRAWN - RON ALLEN	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	

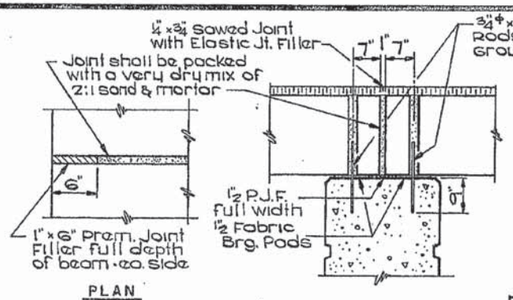
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 35 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	58
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

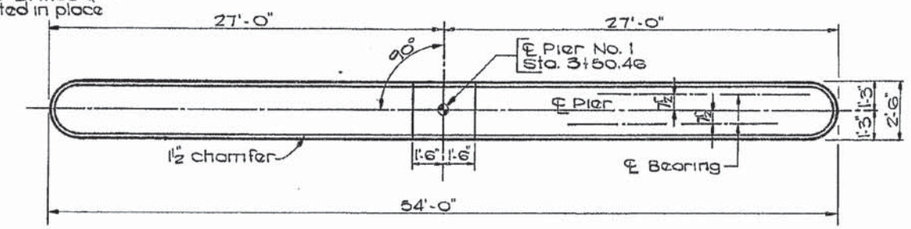
FILE = S:\PROJECTS\2014\1384014_Joliet\DESIGN\STRUCTURE\2D_Drawings\1384014_Existing Plans.dgn

F.A.U. RTE.	SECTION: 78-00074-01-BR	TOTAL SHEETS	SHEET NO.
300	COUNTY WILL	15	10
ILLINOIS PROJECT RS 300( )			

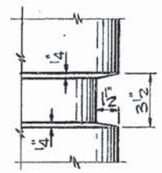


PLAN

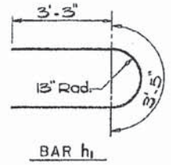
SECTION - DECK JOINT



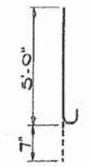
TOP VIEW



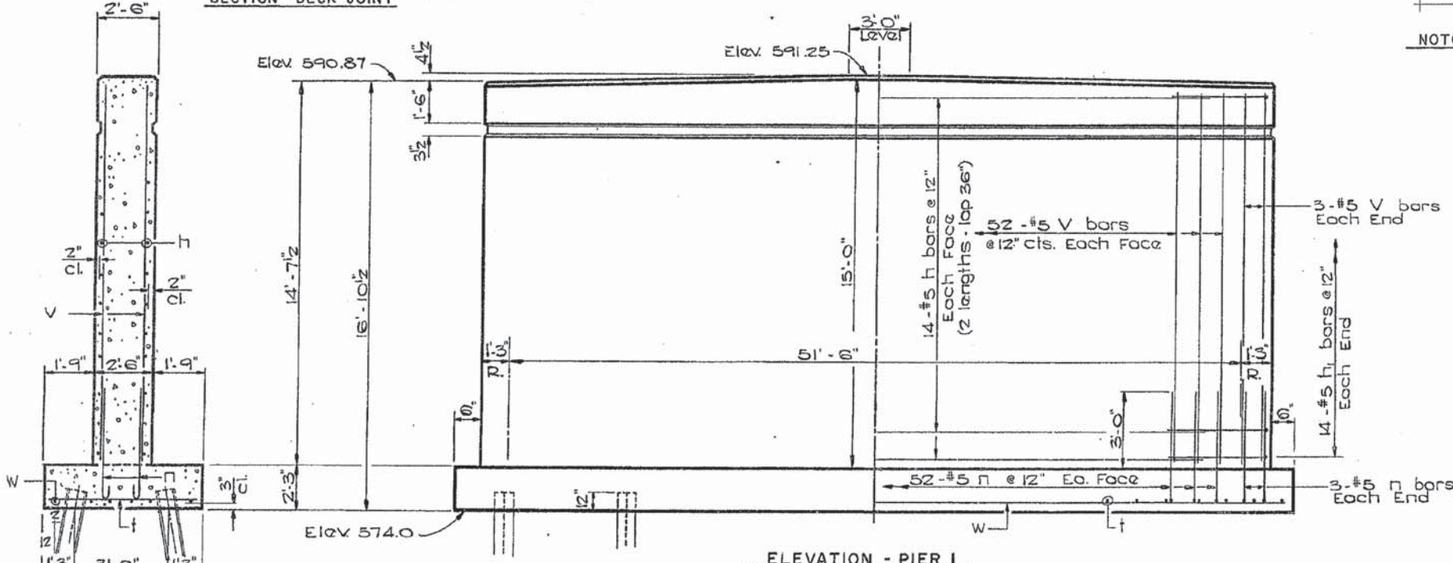
NOTCH DETAIL



BAR h_1



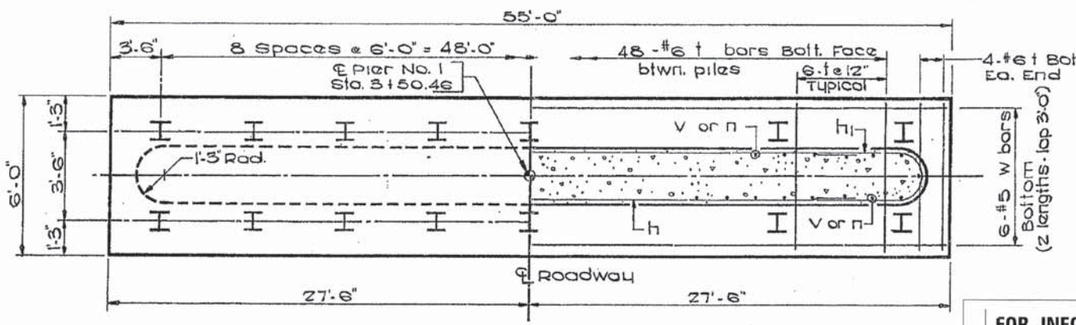
BAR n



SECTION THRU PIER

ELEVATION - PIER I

PILE DATA
TYPE ..... Steel HP 8x36
CAPACITY ..... Drive to refusal
EST. LENGTH .... 20 Feet
NO. REQ'D. 18



FOOTING PLAN

BILL OF MATERIAL - PIER I

Bar	No.	Size	Length	Shape
h	56	#5	27'-0"	
h_1	28	#5	9'-11"	U
n	110	#5	5'-7"	⊂
t	56	#6	5'-8"	—
V	110	#5	14'-6"	—
W	12	#5	28'-6"	—

Class X Concrete	Cu.Yds.	100.8
Reinforcement Bars	Lbs.	5000
Cofferdam Excav.	Cu.Yds.	130
Cofferdams	Each.	1
Steel Piles HP 8x36	L.F.	360

PIER NO. 1
SECTION 78-00074-01-BR
CATON FARM ROAD
WILL COUNTY

FOR INFORMATION ONLY

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WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000915

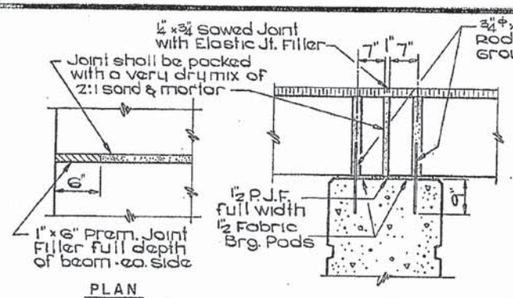
DESIGNED	PETER PASCUA	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -
DRAWN	RON ALLEN	REVISED -
CHECKED	BRIAN CONVERSE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 36 OF 37 SHEETS

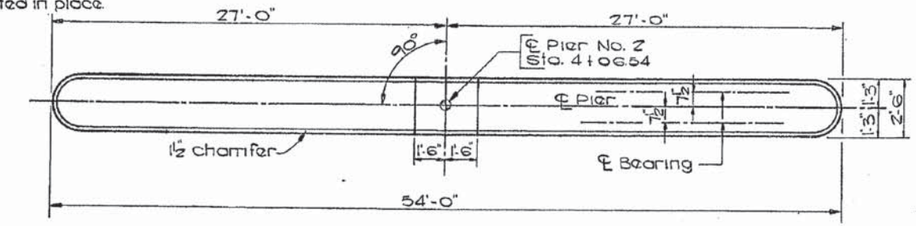
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	59
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

78-00074-01-BR
300 WILL 15 11
RS 300 ( )

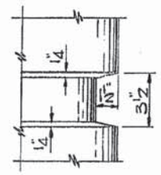


PLAN

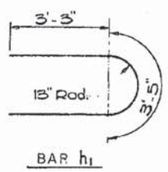
SECTION - DECK JOINT



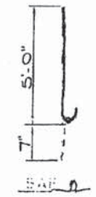
TOP VIEW



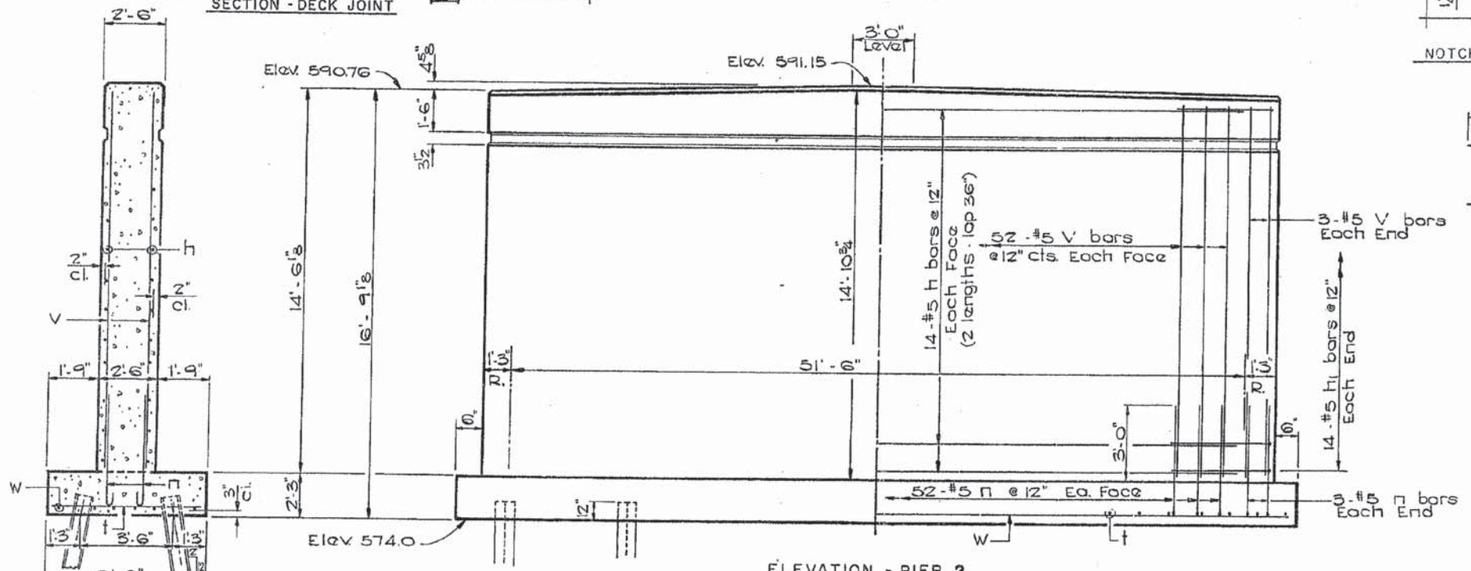
NOTCH DETAIL



BAR h1



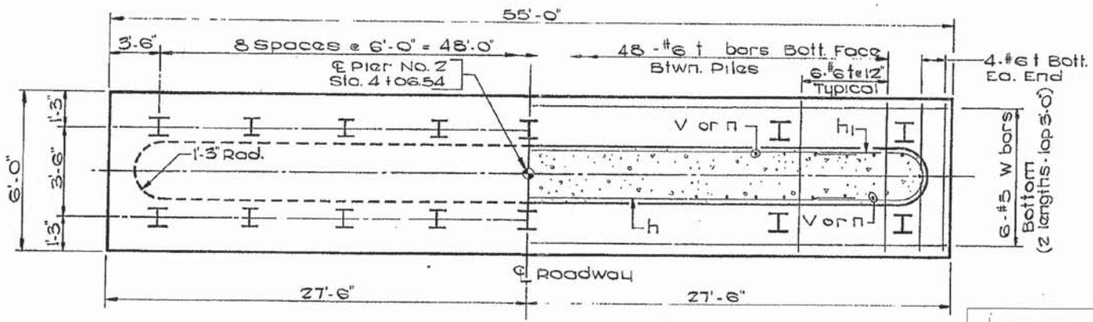
BAR n



ELEVATION - PIER 2

SECTION THRU PIER

PILE DATA
TYPE . . . . . Steel HP 8x36
CAPACITY. . . . . Drive to refusal
EST. LENGTH. . . . 20 Feet
NO. REQ'D. . . . . 17 Plus 1 Test Pile



FOOTING PLAN

BILL OF MATERIAL 2

Bar	No.	Size	Length	
h	56	#5	27'-0"	
h1	28	#5	9'-11"	
n	110	#5	5'-7"	
t	56	#6	5'-8"	
V	110	#5	14'-6"	
W	12	#5	28'-6"	

Class X Concrete cu.Yds.	100.0
Reinforcement Bars Lbs.	5000
Cofferdam Excav. cu.Yds.	100
Cofferdams Each	1
Steel Piles HP 8x36 L.F.	340
Test Piles-Steel HP8x36 Ea.	1

PIER NO. 2
SECTION 78-00074-01-BR
CATON FARM ROAD
WILL COUNTY

FOR INFORMATION ONLY

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WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
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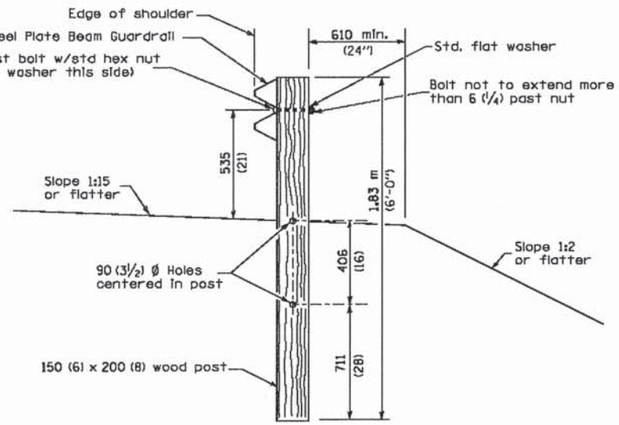
DESIGNED - PETER PASCUA	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	
DRAWN - RON ALLEN	REVISED -	
CHECKED - BRIAN CONVERSE	REVISED -	

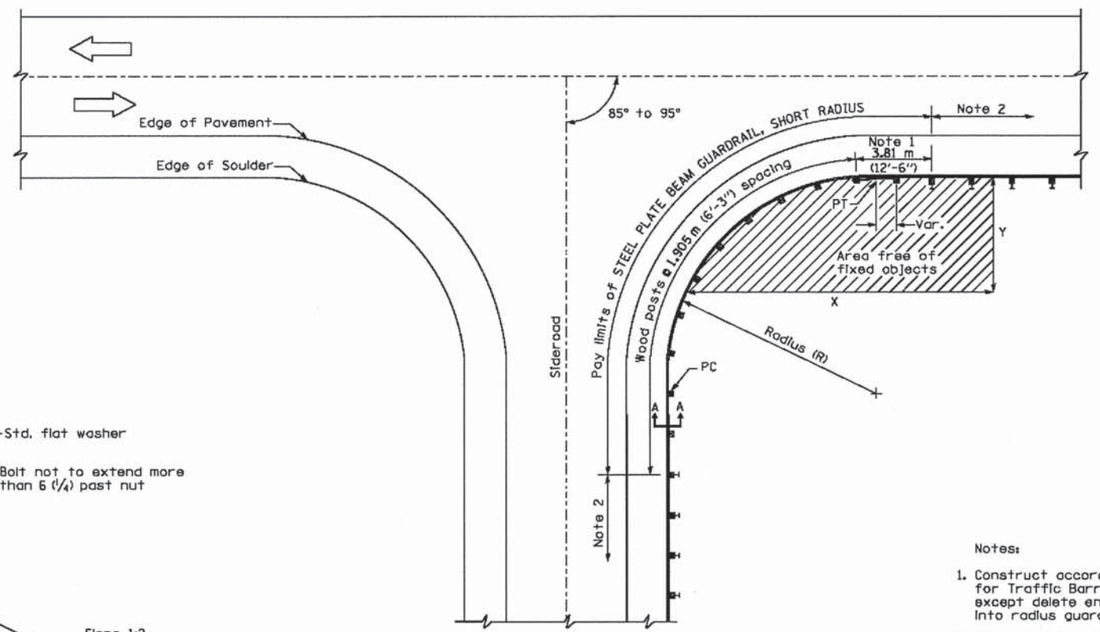
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 099-3323
STRUCTURAL SHEET NO. 37 OF 37 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	60
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



SECTION A-A



PLAN

Notes:

1. Construct according to Standard 631011 for Traffic Barrier Terminal Type 2, except delete end section and splice into radius guardrail.
2. Steel Plate Beam Guardrail Type A, Type B, or Traffic Barrier Terminal as specified.
3. For the 2.59 m (8'-6") radius, the rail is not bolted to the post located at the midpoint of the curve.

INSTALLATION CHARACTERISTICS PER DESIGN RADIUS (R)			
R	NO. OF WOOD POSTS	X	Y
2.59 (8'-6")	5 (Note 3)	7.6 m (25')	4.6 (15')
5.18 (17'-0")	6	9.1 m (30')	4.6 (15')
7.77 (25'-6")	8	12.2 m (40')	6.1 (20')
10.67 (35'-0")	11	15.2 m (50')	6.1 (20')

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

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WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
609 EAST 7th STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184.001918

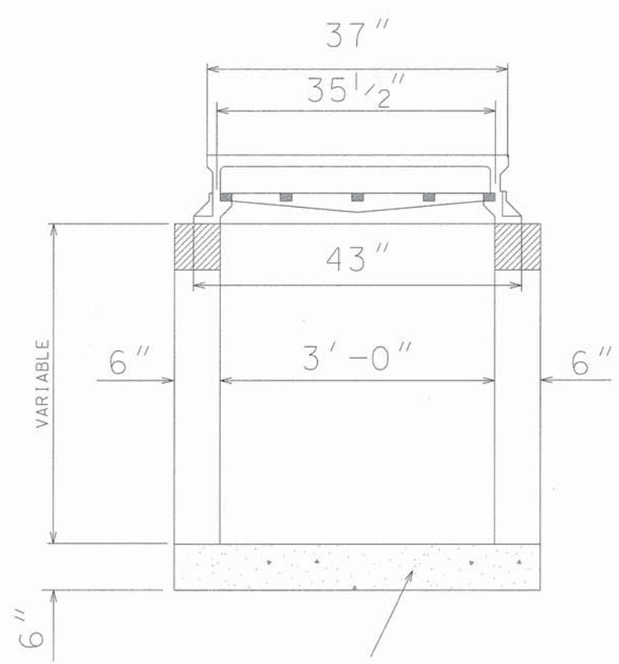
DESIGNED -	L.G.N.	REVISED -
CHECKED -	G.F.S.	REVISED -
DRAWN -	L.G.N.	REVISED -
CHECKED -	G.F.S.	REVISED -

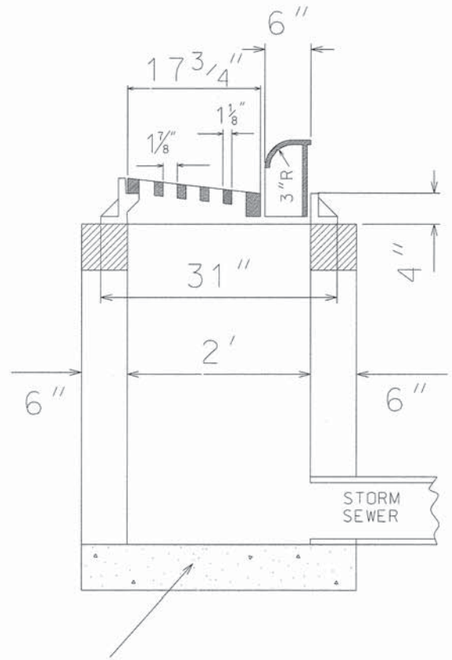
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	61
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

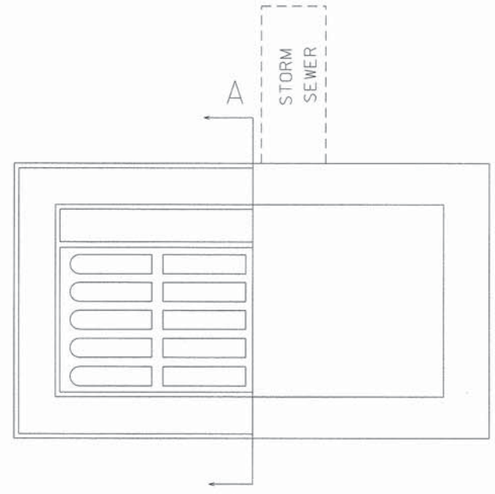
INLETS, SPECIAL





6" CLASS SI CONCRETE OR
4" PRECAST REINF. CONC.
SLAB ON 3" SAND CUSHION

LONGITUDINAL SECTION



PLAN

SECTION A-A

NOTES:

THE INLET SHALL BE CAST IN PLACE OR PRECAST, EXCEPT AS NOTED HERE, ON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS. THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE INLET WITH SAND CUSHION IF REQUIRED. CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. THE SIDEWALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS. THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6" SHORT TO ALLOW FOR FIELD ADJUSTMENTS. THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

FRAME AND GRATE TO WEIGHT APPOROXIMATELY 525 LBS.

(NEENAH R-3246 W/TYPE C GRATE OR EQUAL)

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WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
509 EAST 2ND STREET, DIXON, IL 61021-0367
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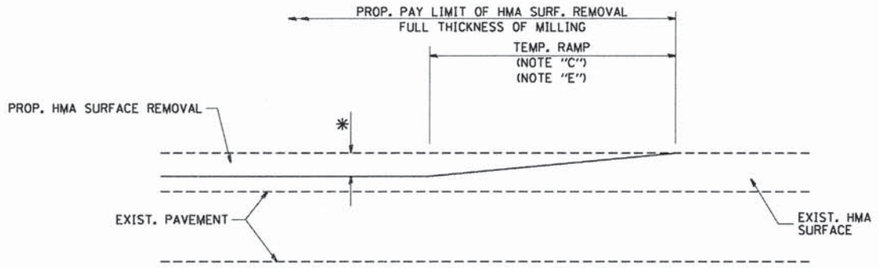
DESIGNED - L.G.N.	REVISED -	
CHECKED - G.F.S.	REVISED -	
DRAWN - L.G.N.	REVISED -	
CHECKED - G.F.S.	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INLETS, SPECIAL DETAIL
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 1 SHEETS

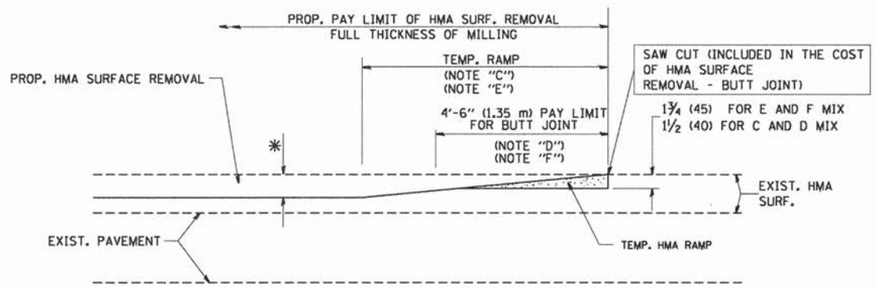
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	62
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

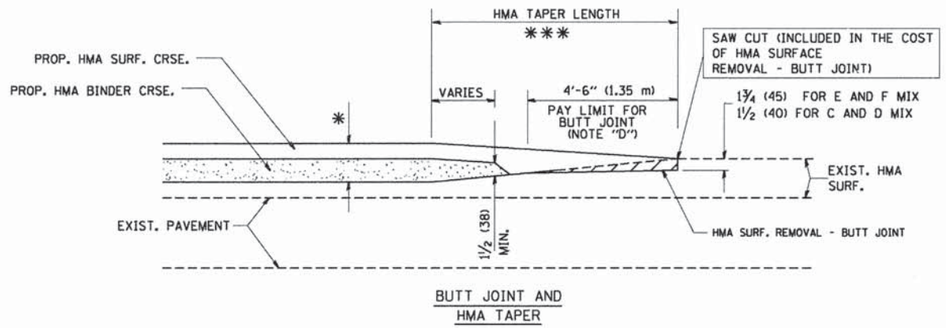


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

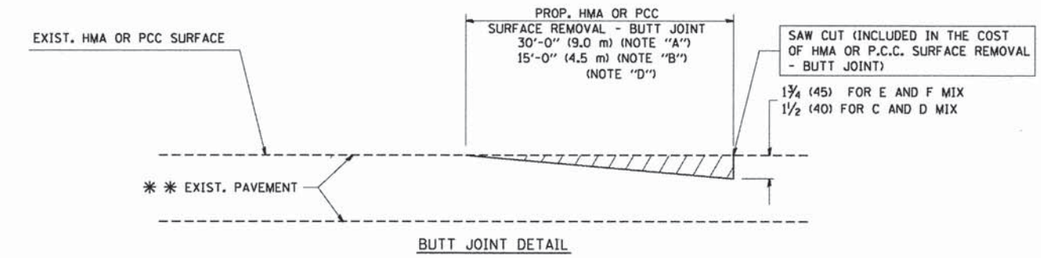
OPTION 2

TYPICAL TEMPORARY RAMP

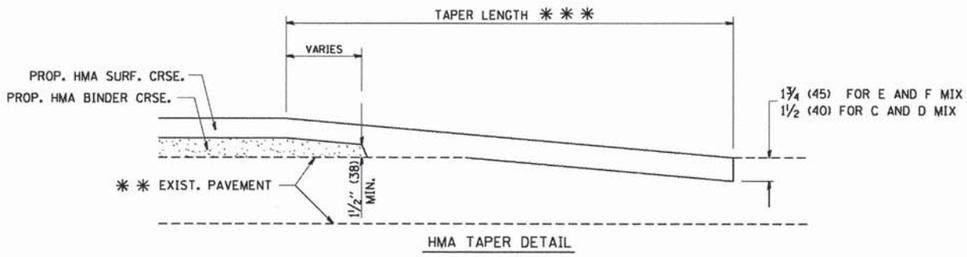


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T. 815-284-3361 DESIGN FIRM: #184-000918

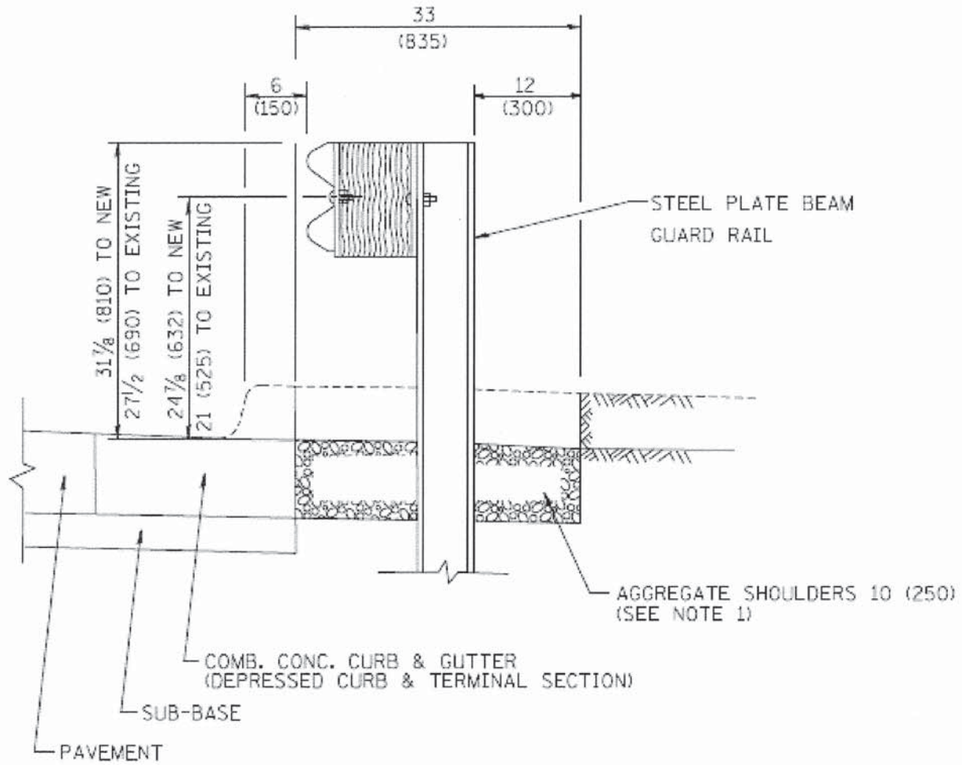
DESIGNED - L.G.N.	REVISED -	
CHECKED - G.F.S.	REVISED -	
DRAWN - L.G.N.	REVISED -	
CHECKED - G.F.S.	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE DETAIL BD-32
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	63
	WHA* 1304014	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

FILE = S:\PROJECTS\2014\1304014_Joliet\DESIGN\TRANS\1304014_Special Details.dgn

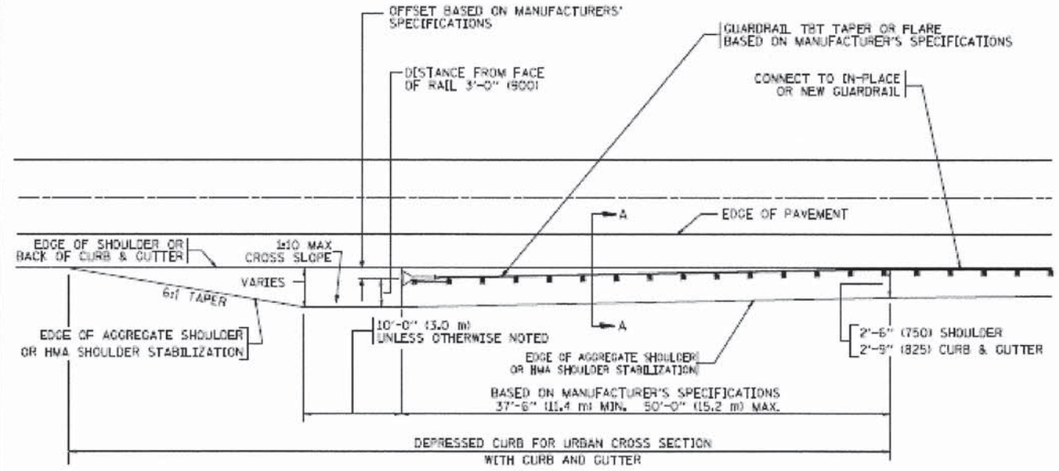


SECTION A-A

NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER

[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND SHOULDER TREATMENT AT TBT TY. 1 SPL.

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL

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

FILE = S:\PROJECTS\2014\1304014_Joliet\DESIGN\TRANS\1304014_Special Details.dgn

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
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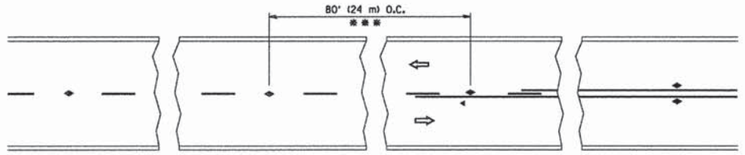
CHECKED - G.F.S.	REVISED -	
DRAWN - L.G.N.	REVISED -	
CHECKED - G.F.S.	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

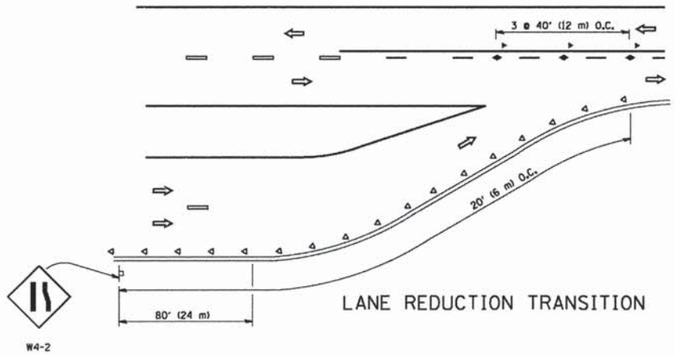
DISTRICT ONE DETAIL BD-34
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	64
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			

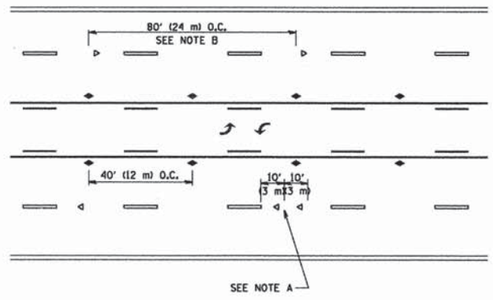


* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

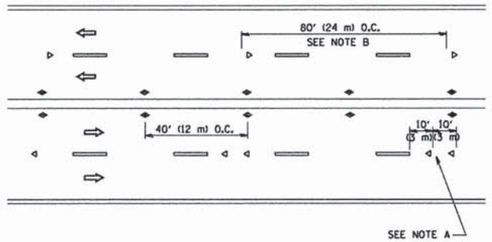
TWO-LANE/TWO-WAY



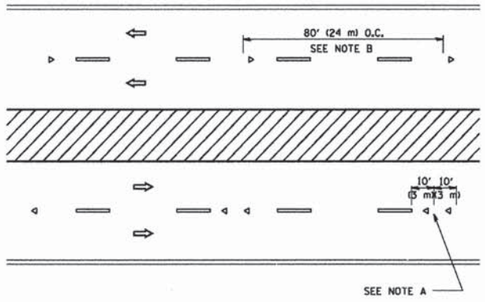
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

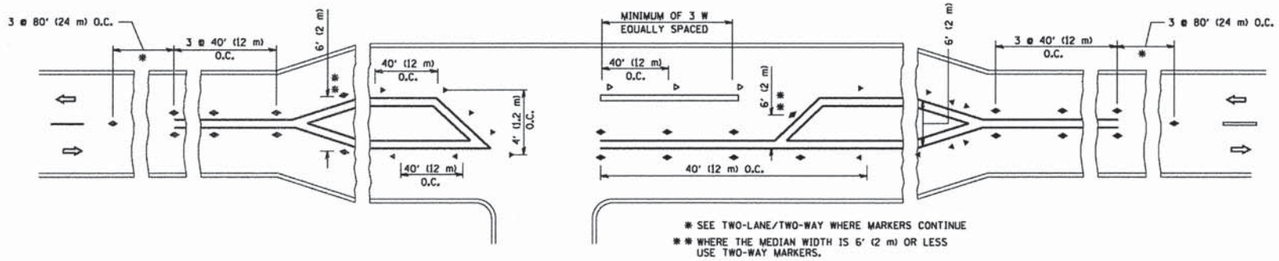
LANE MARKER NOTES

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

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

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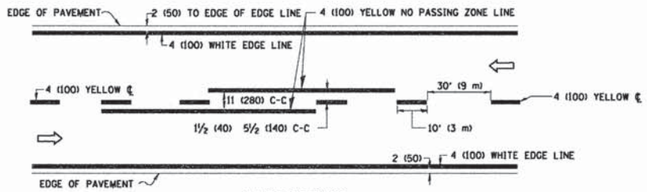
WILLETT HOFMANN & ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
509 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184.000918

DESIGNED	L.G.N.	REVISED	-
CHECKED	G.F.S.	REVISED	-
DRAWN	L.G.N.	REVISED	-
CHECKED	G.F.S.	REVISED	-

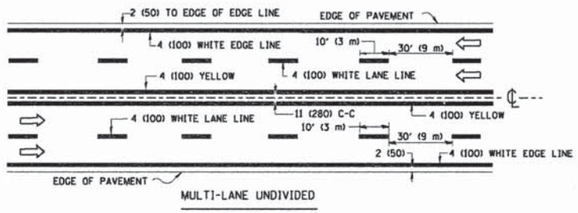
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE DETAIL TC-11
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 1 SHEETS

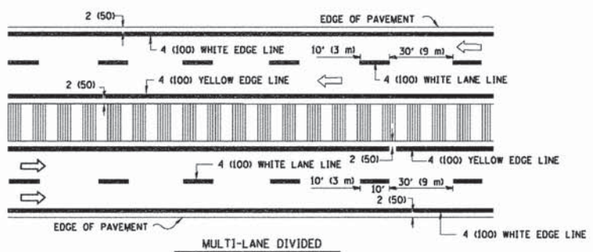
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	65
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



2-LANE ROADWAY



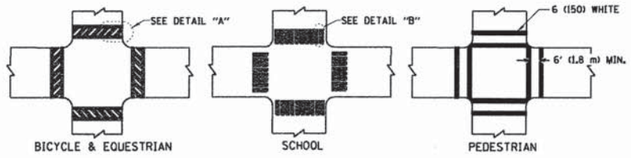
MULTI-LANE UNDIVIDED

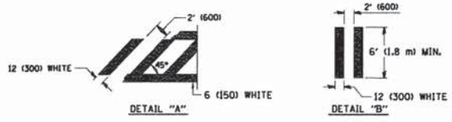


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

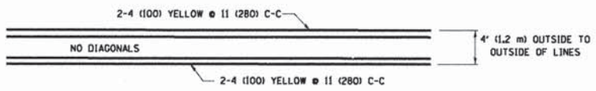
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

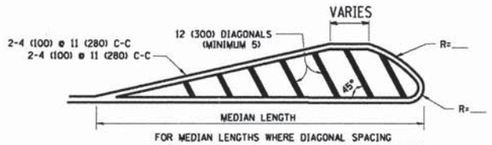




TYPICAL CROSSWALK MARKING



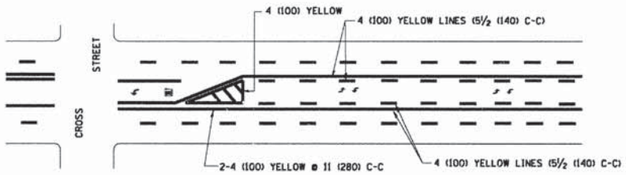
4' (1.2 m) WIDE MEDIANS ONLY



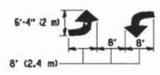
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

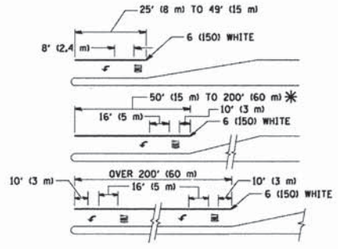


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

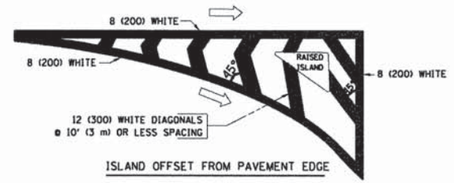


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) ; ⬆ AREA = 20.8 SQ. FT. (1.9 m^2)

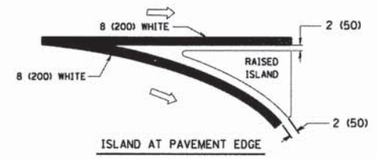
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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 UNDIVEDED PAVEMENT	2 ø 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 ø 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (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 ø 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; 5½ (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 ø 6 (150) 12 (300) ø 45° 12 (300) ø 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 ø 4 (100) WITH 12 (300) DIAGONALS ø 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 ø 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) ø 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.

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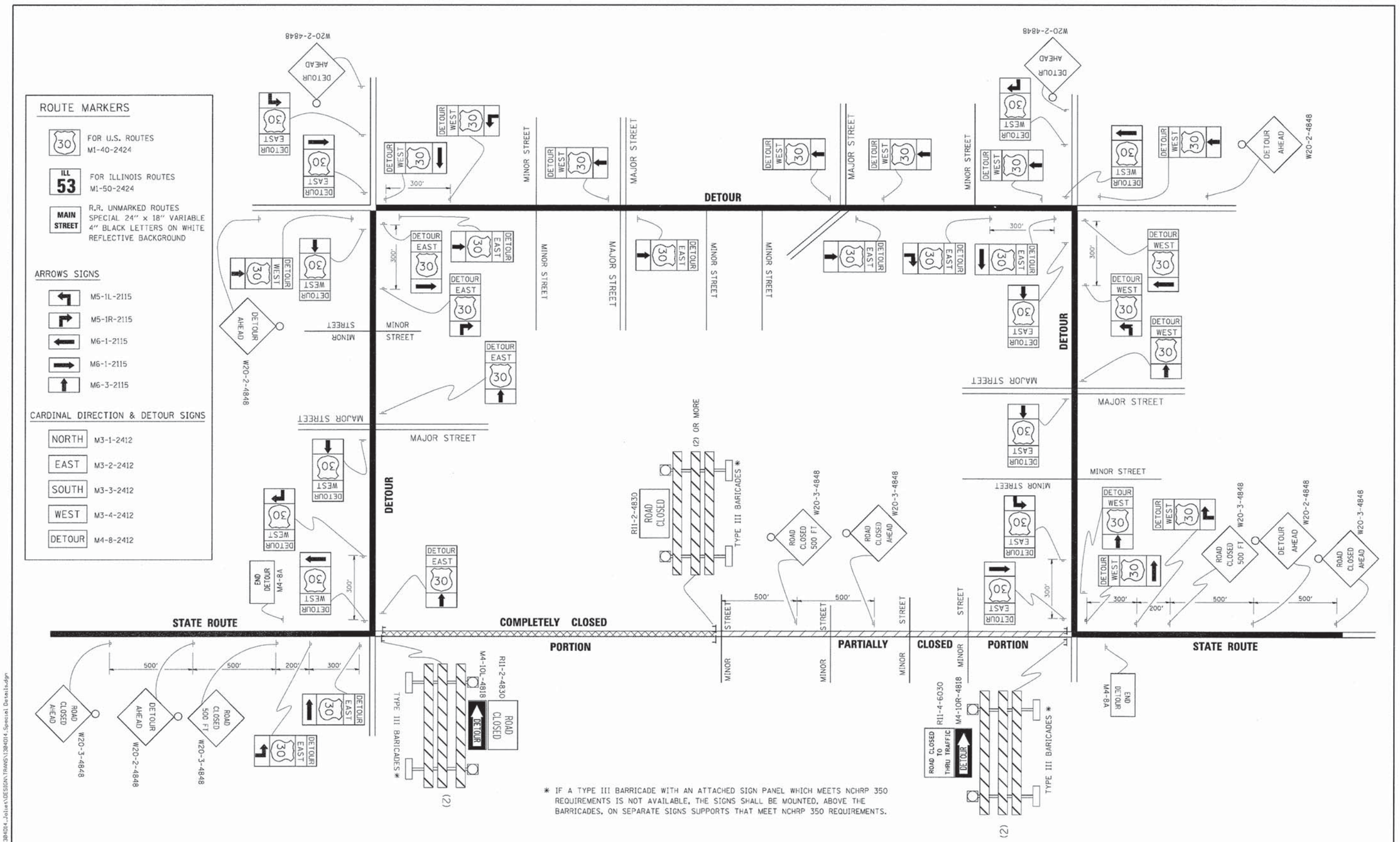
WILLETT HOFMANN & ASSOCIATES LTC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 FASSION FAX: #184-000918

DESIGNED - L.G.N.		REVISED -
CHECKED - G.F.S.		REVISED -
DRAWN - L.G.N.		REVISED -
CHECKED - G.F.S.		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE DETAIL TC-13
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	66
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



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ENGINEERING ARCHITECTURE LAND SURVEYING
609 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184.000918

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CHECKED - G.F.S.		REVISED -
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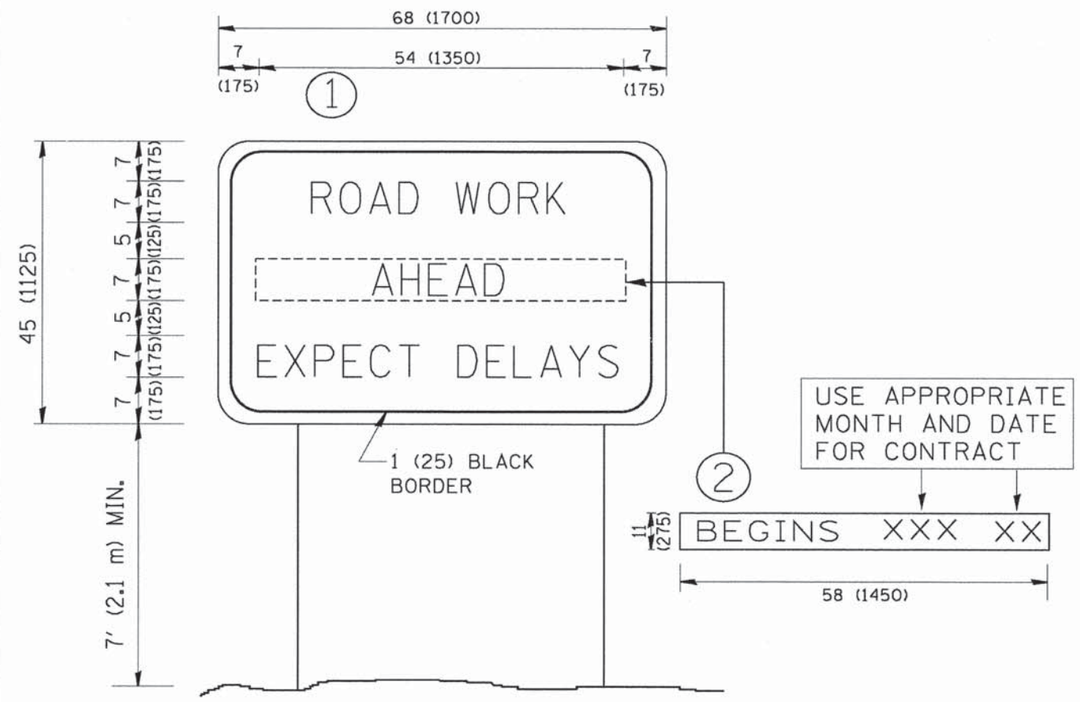
CHECKED - G.F.S.		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE DETAIL TC-21
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	67
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



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 = S:\PROJECTS\2014\1304D14_Joliet\DESIGN\TRANS\1304D14_Special Details.dgn

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
509 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3361 DESIGN FIRM #184-000918

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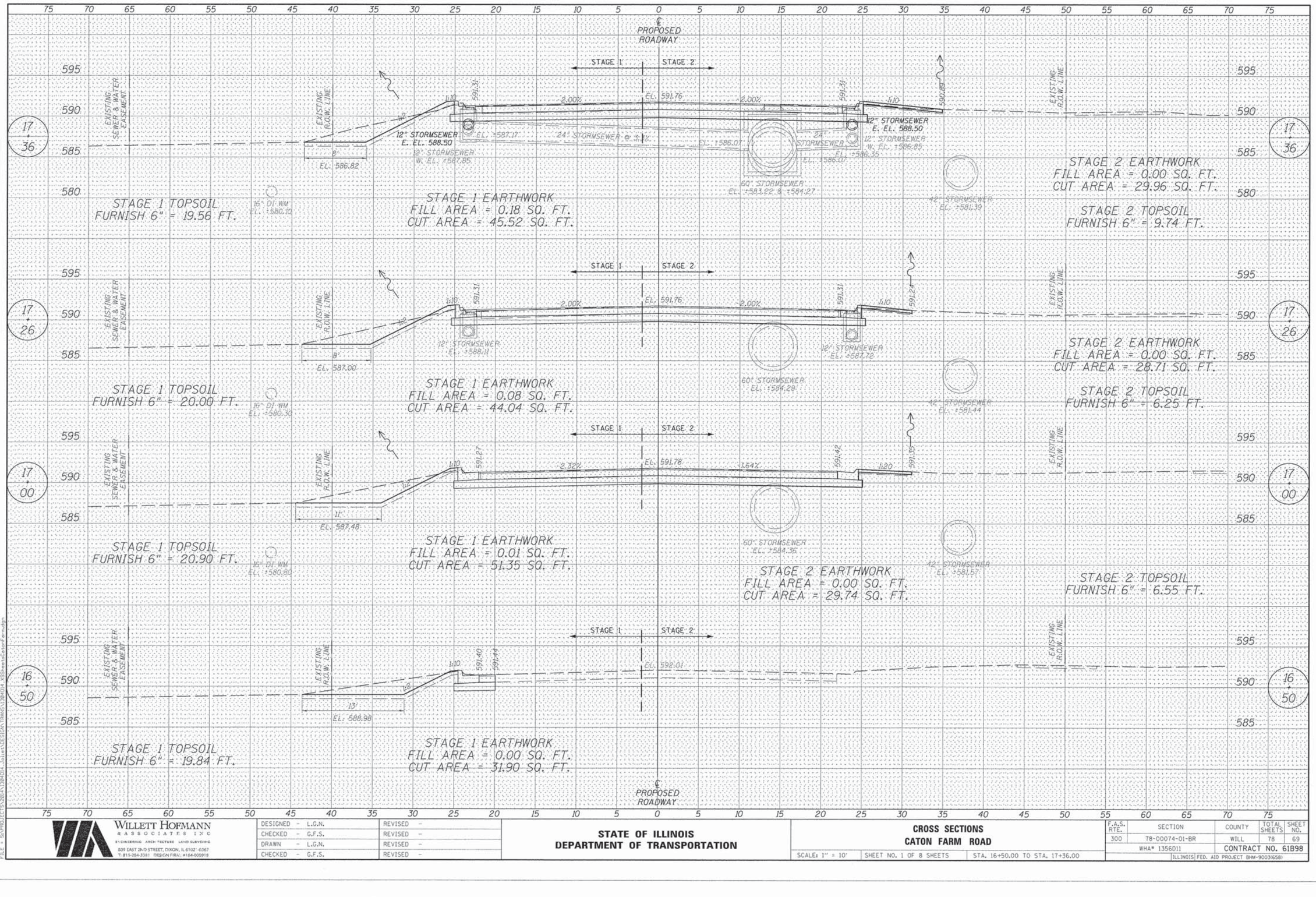
CHECKED - G.F.S.	REVISED -	
DRAWN - L.G.N.	REVISED -	
CHECKED - G.F.S.	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE DETAIL TC-22
STRUCTURE NO. 099-3323
SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	09-00425-00-BR	WILL	78	68
	WHA* 1304D14	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



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

FILE = S:\PROJECTS\2004\1284014-Joliet\DESIGN\TRANS\1284014_XSSheet1-CatonFarm.dgn

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
509 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

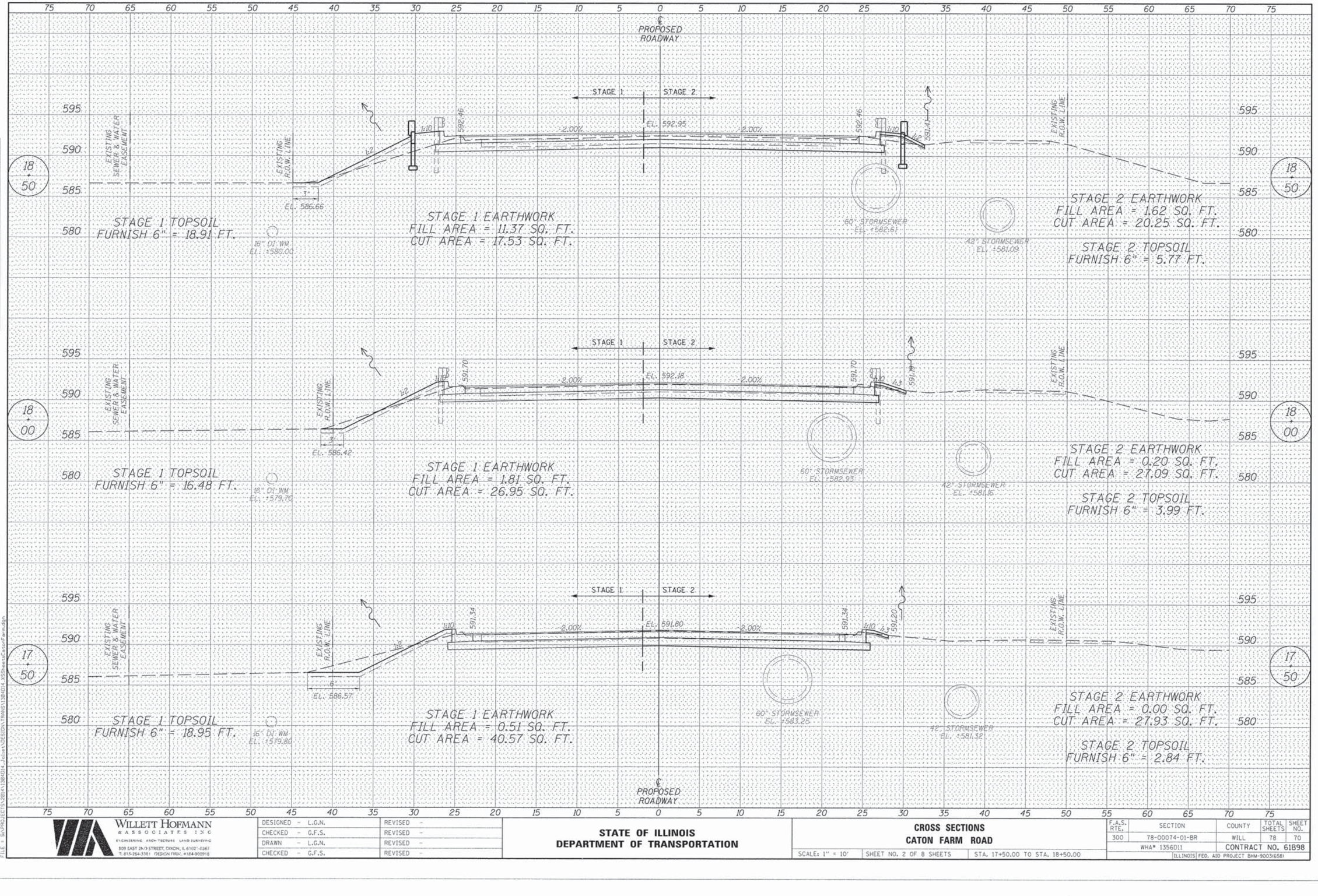
DESIGNED	L.G.N.	REVISED	-
CHECKED	G.F.S.	REVISED	-
DRAWN	L.G.N.	REVISED	-
CHECKED	G.F.S.	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CATON FARM ROAD

SCALE: 1" = 10' | SHEET NO. 1 OF 8 SHEETS | STA. 16+50.00 TO STA. 17+36.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
300	78-00074-01-BR	WILL	78	69
	WHA* 1356011	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



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

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

FILE = S:\PROJECTS\2014\384014 Joliet\DESIGN\TRANS\384014_XSSheet1of2.prn,dgn

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

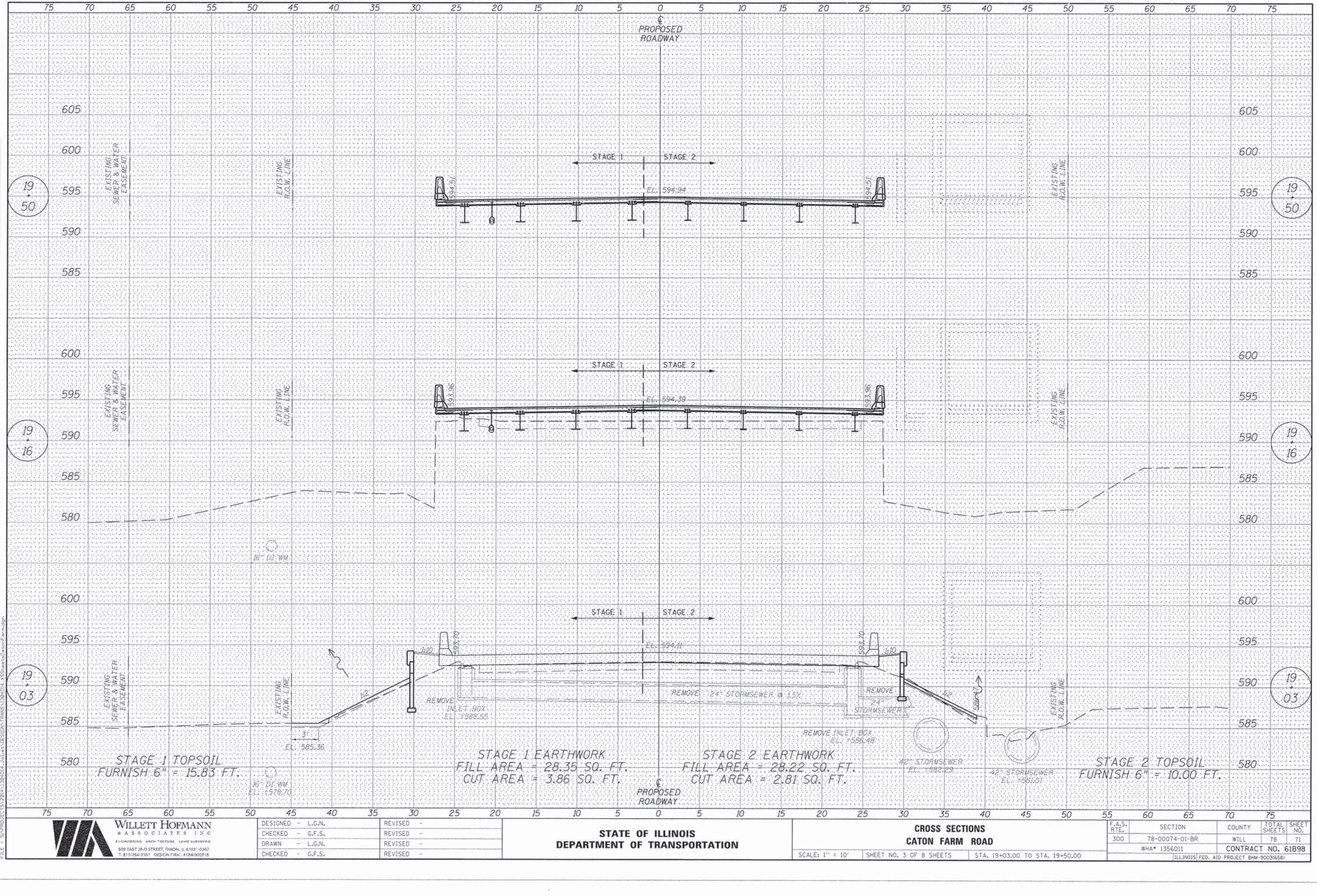
DESIGNED	L.G.N.	REVISED	-
CHECKED	G.F.S.	REVISED	-
DRAWN	L.G.N.	REVISED	-
CHECKED	G.F.S.	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CATON FARM ROAD

SCALE: 1" = 10' | SHEET NO. 2 OF 8 SHEETS | STA. 17+50.00 TO STA. 18+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
300	78-00074-01-BR	WILL	78	70
	WHA* 1356D11	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



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

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

FILE = S:\PROJECTS\2014\1284014-Joliet\DESIGN\TRANS\1284014_XSSheetsCatonFarm.dgn

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

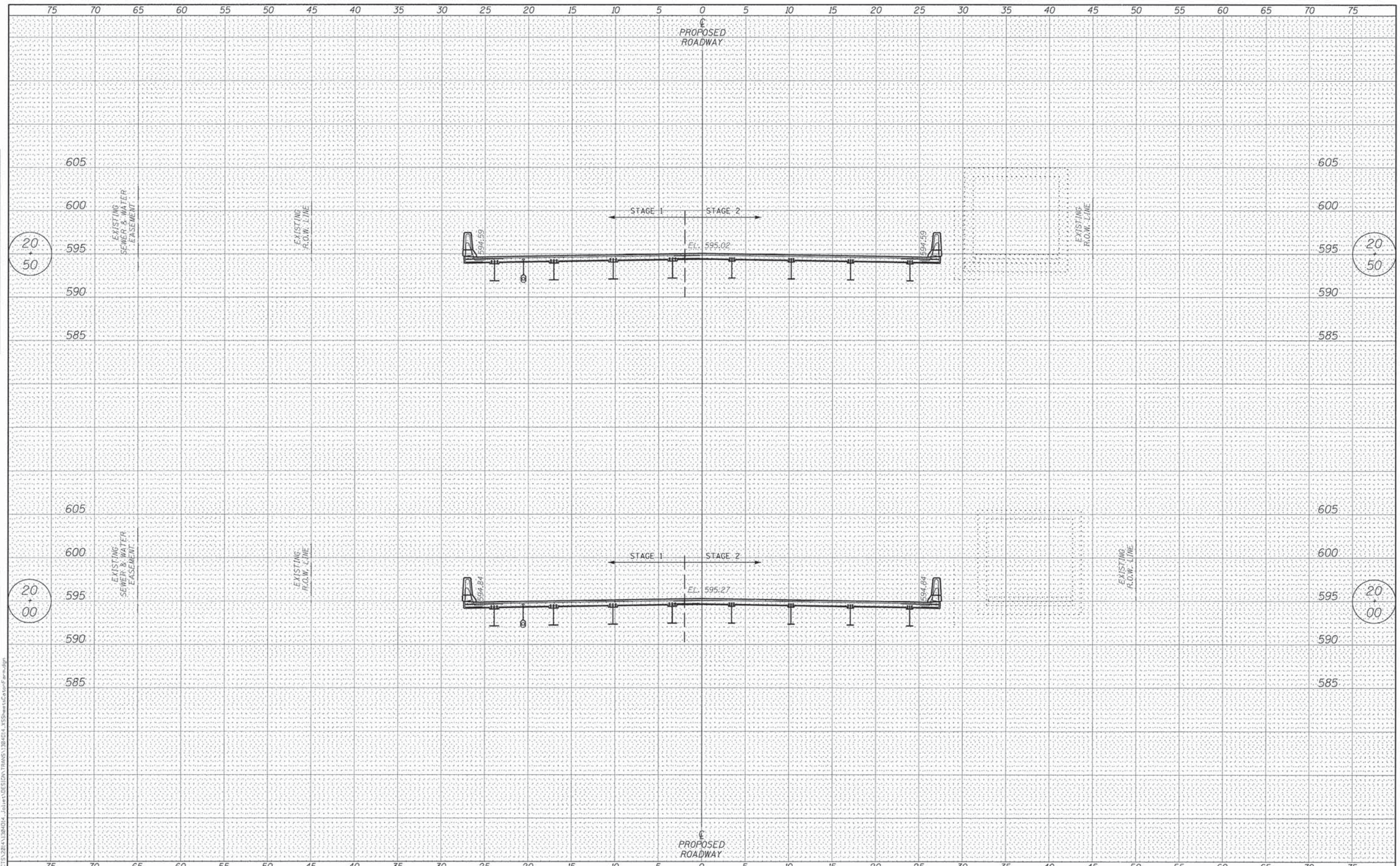
DESIGNED - L.G.N.	REVISED -	
CHECKED - G.F.S.	REVISED -	
DRAWN - L.G.N.	REVISED -	
CHECKED - G.F.S.	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CATON FARM ROAD

SCALE: 1" = 10' | SHEET NO. 3 OF 8 SHEETS | STA. 19+03.00 TO STA. 19+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
300	78-00074-01-BR	WILL	78	71
	WHA* 1356(11)	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



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

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

FILE = S:\PROJECTS\2014\1384014 Joliet\DESIGN\TRANS\1384014_XSSheet-CatonFarm.dgn

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ENGINEERING ARCHITECTURE LAND SURVEYING
509 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3361 DESIGN FIRM: #184-000918

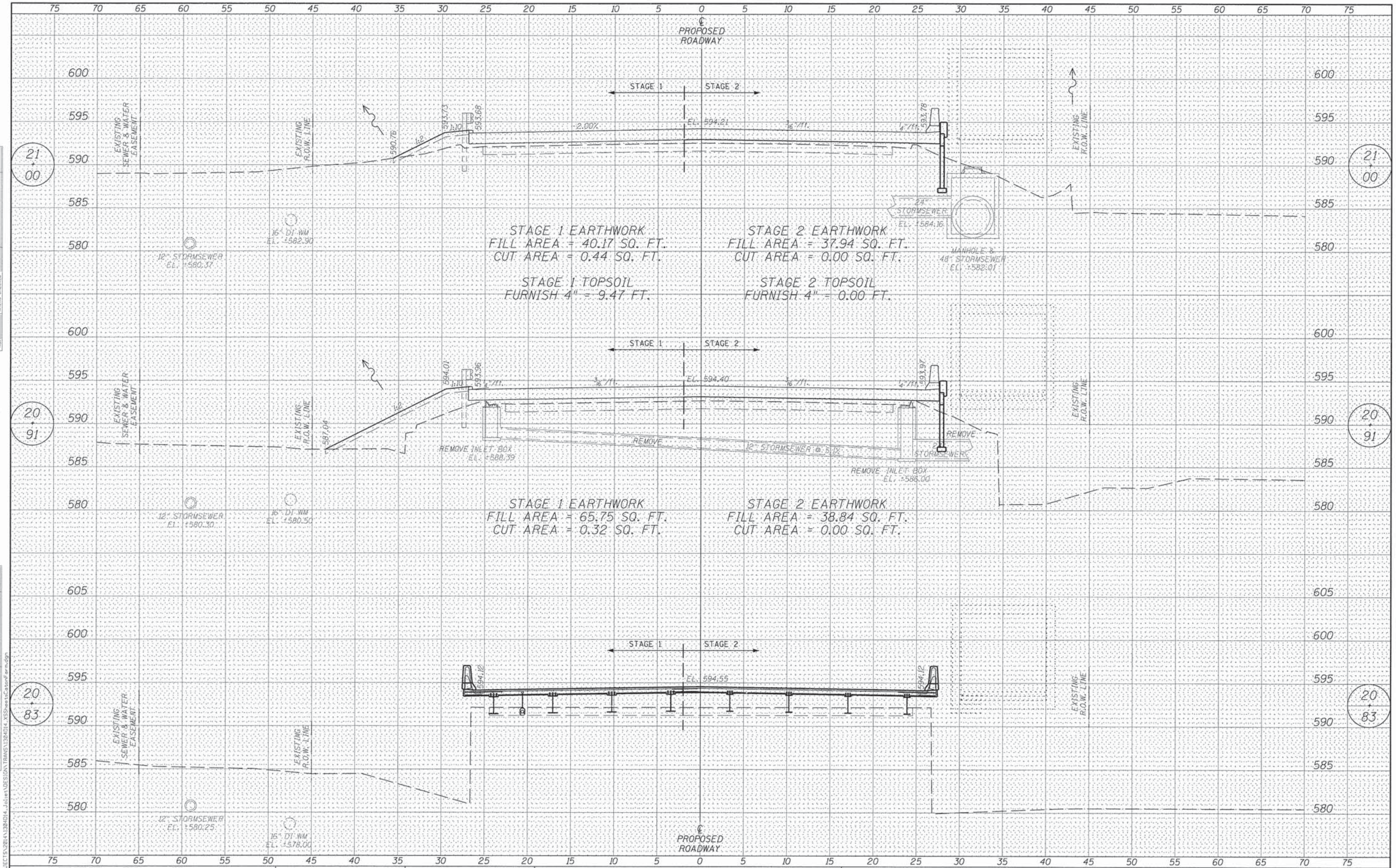
DESIGNED - L.G.N.		REVISED -
CHECKED - G.F.S.		REVISED -
DRAWN - L.G.N.		REVISED -
CHECKED - G.F.S.		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CATON FARM ROAD

SCALE: 1" = 10' | SHEET NO. 4 OF 8 SHEETS | STA. 20+00.00 TO STA. 20+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
300	78-00074-01-BR	WILL	78	72
	WHA* 1356D11	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



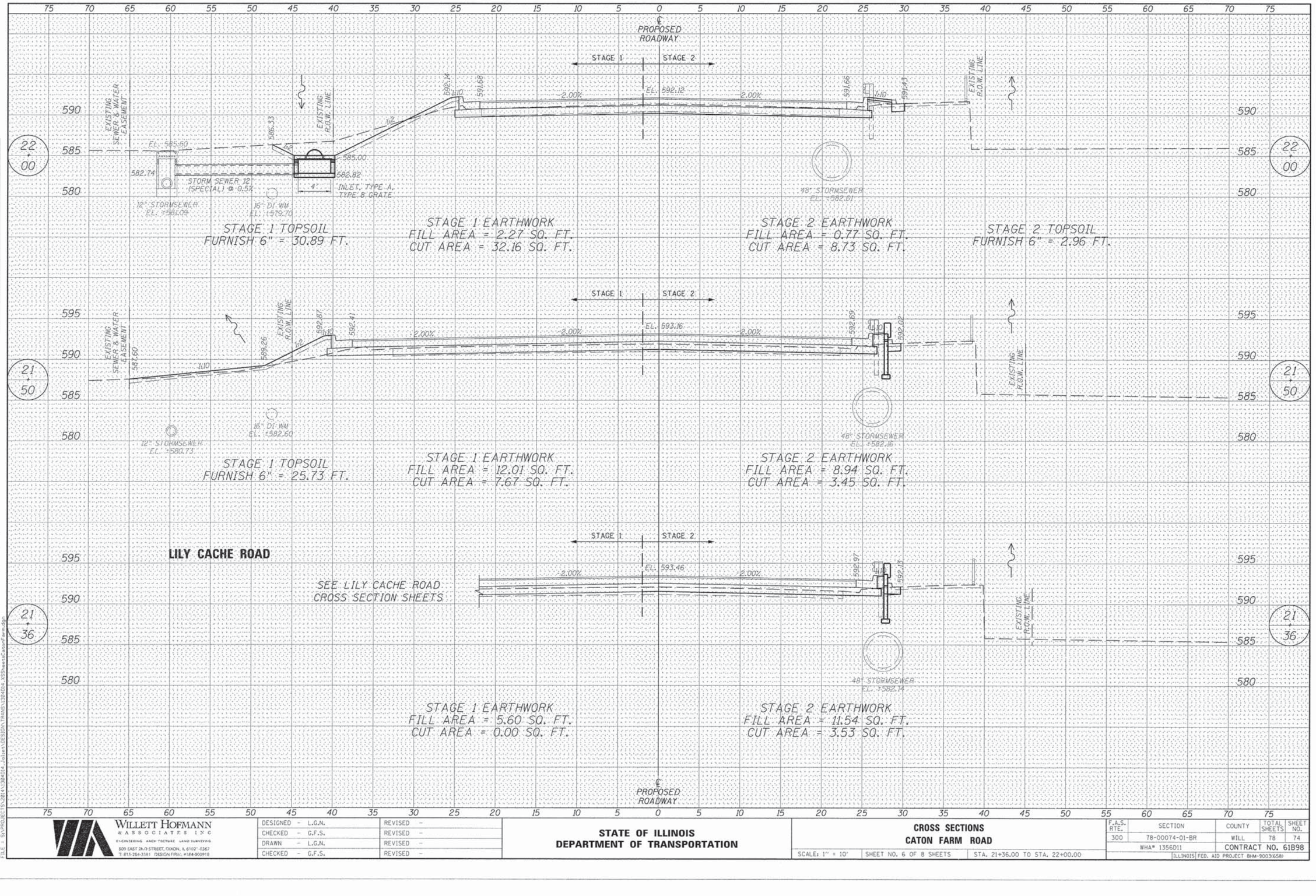
WILLETT HOFMANN & ASSOCIATES INC — ENGINEERING ARCHITECTURE LAND SURVEYING — 809 EAST 2ND STREET, DIXON, IL 61021-0367 — T: 815-284-3381 DESIGN FIRM: #184-000918	DESIGNED - L.G.N.	REVISED -	
	CHECKED - G.F.S.	REVISED -	
	DRAWN - L.G.N.	REVISED -	
	CHECKED - G.F.S.	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CATON FARM ROAD

SCALE: 1" = 10' | SHEET NO. 5 OF 8 SHEETS | STA. 20+83.00 TO STA. 21+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
300	78-00074-01-BR	WILL	78	73
	WHA# 1356D11	CONTRACT NO. 61B98		
		ILLINOIS FED. AID PROJECT BHM-9003(658)		



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

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

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WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
309 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM #184-000918

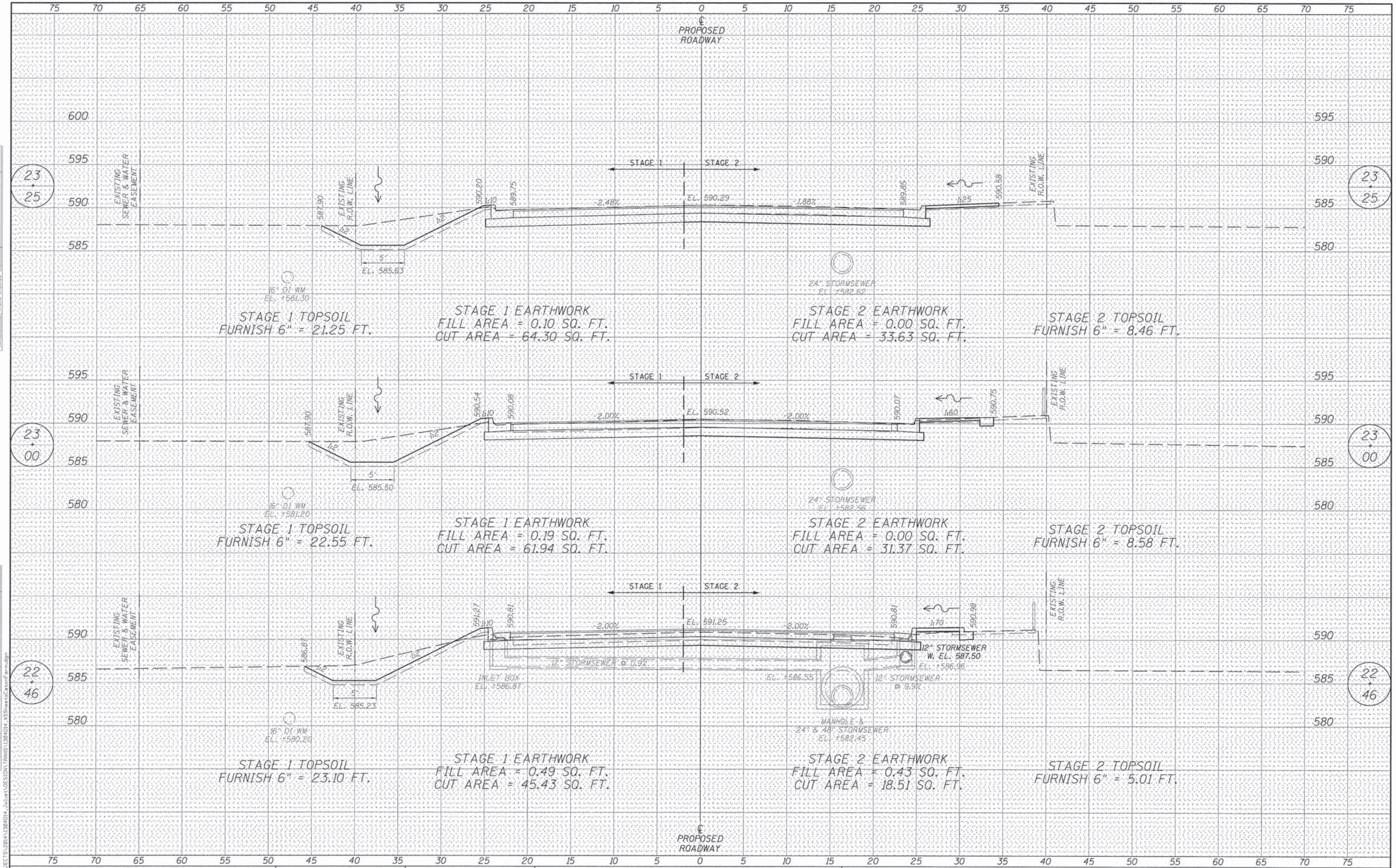
DESIGNED	L.G.N.	REVISED –
CHECKED	G.F.S.	REVISED –
DRAWN	L.G.N.	REVISED –
CHECKED	G.F.S.	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CATON FARM ROAD

SCALE: 1" = 10' | SHEET NO. 6 OF 8 SHEETS | STA. 21+36.00 TO STA. 22+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
300	78-00074-01-BR	WILL	78	74
	WHA* 1356D11	CONTRACT NO. 61B98		
		ILLINOIS FED. AID PROJECT BHM-9003(658)		



WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367

DESIGNED - L.G.N.	REVISED -		
CHECKED - G.F.S.	REVISED -		
DRAWN - L.G.N.	REVISED -		
CHECKED - G.F.S.	REVISED -		

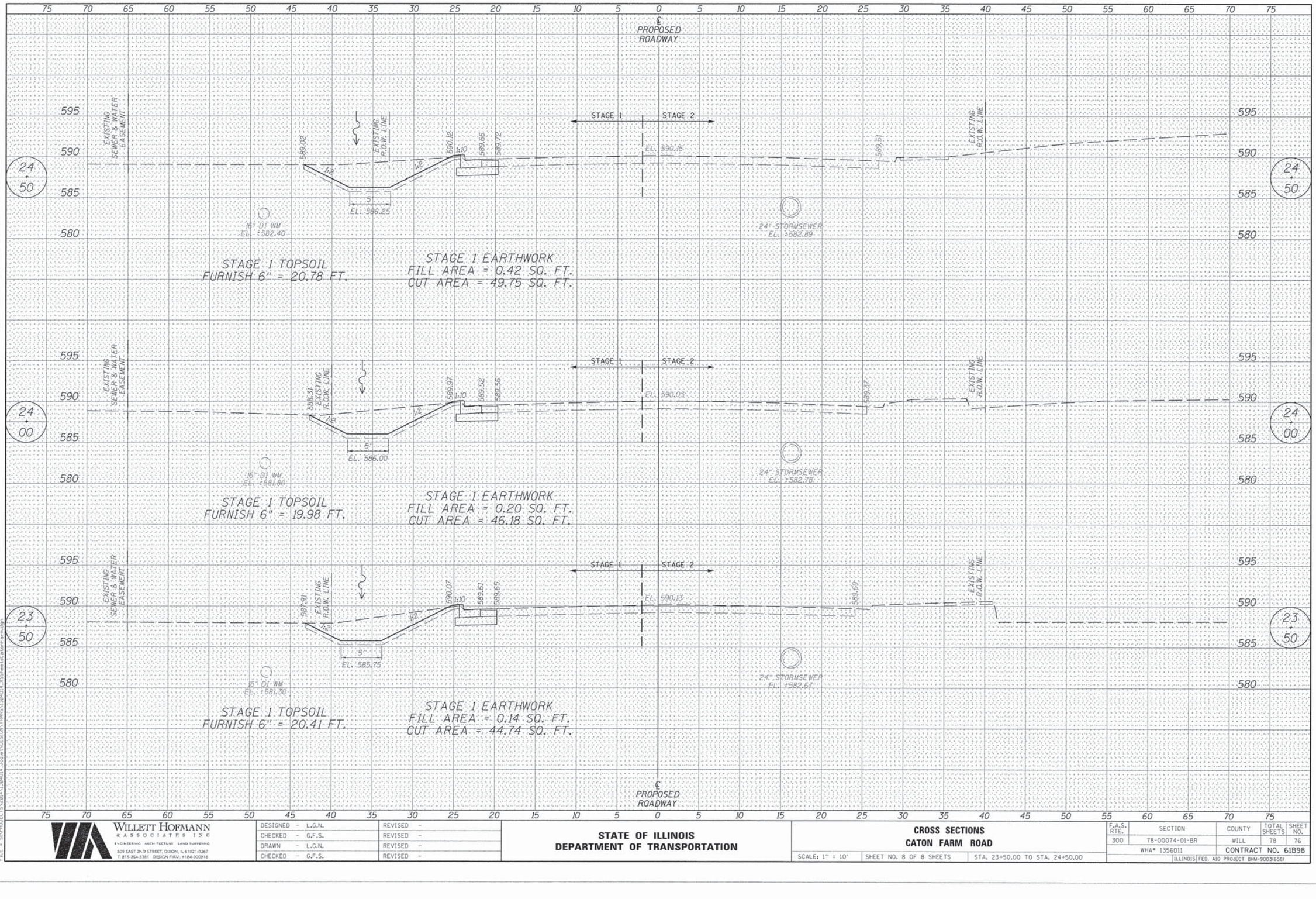
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CATON FARM ROAD

SCALE: 1" = 10' | SHEET NO. 7 OF 8 SHEETS | STA. 22+46.00 TO STA. 23+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
300	78-00074-01-BR	WILL	78	75
	WHA# 1356011	CONTRACT NO. 61B98		

ILLINOIS FED. AID PROJECT BHM-9003(658)



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

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WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184.000918

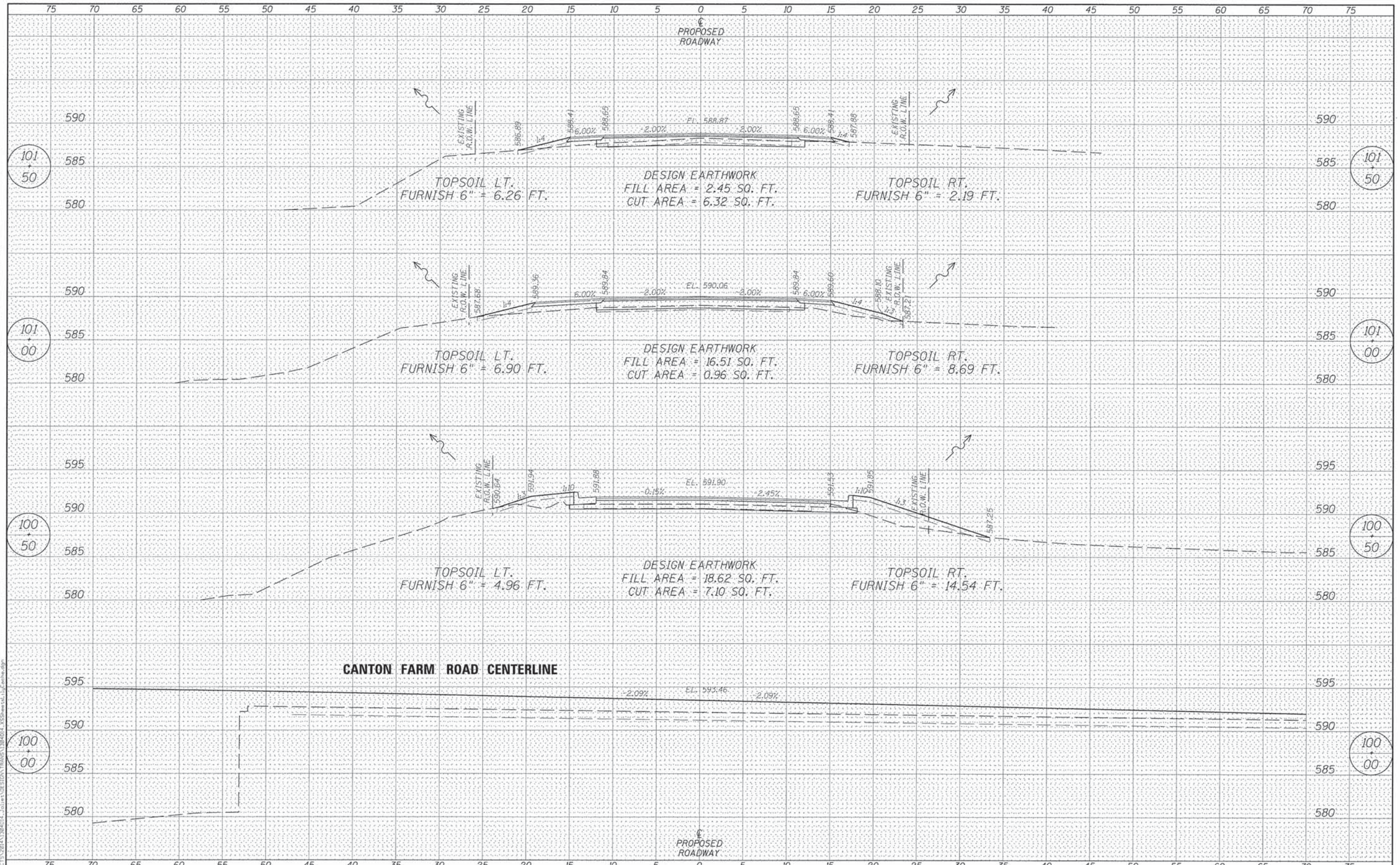
DESIGNED - L.G.N.		REVISED -
CHECKED - G.F.S.		REVISED -
DRAWN - L.G.N.		REVISED -
CHECKED - G.F.S.		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CATON FARM ROAD

SCALE: 1" = 10' | SHEET NO. 8 OF 8 SHEETS | STA. 23+50.00 TO STA. 24+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
300	78-00074-01-BR	WILL	78	76
	WHA* 1356(11	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			



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

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

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WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3361 DESIGN FIRM: #184-000918

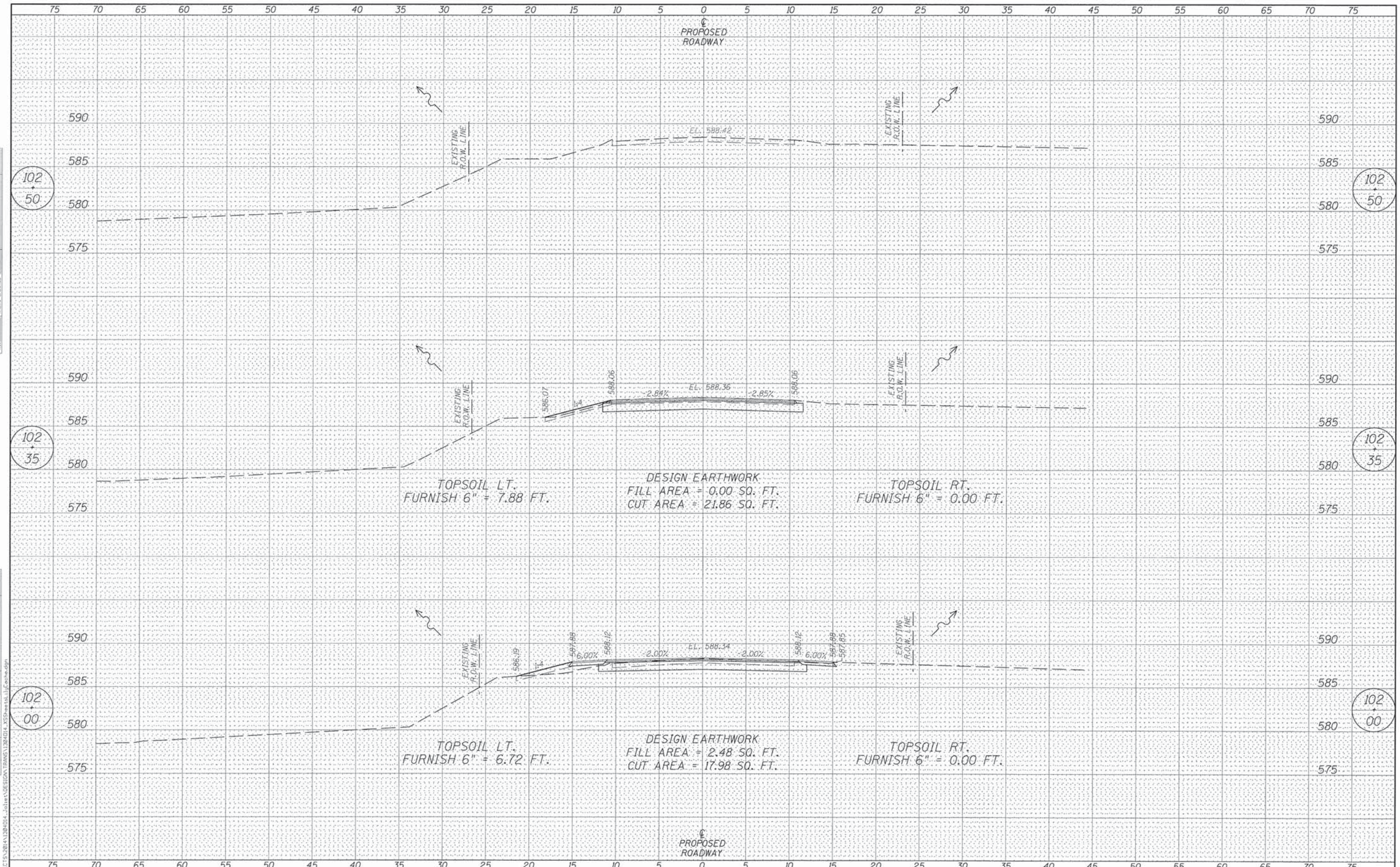
DESIGNED	- L.G.N.	REVISED -
CHECKED	- G.F.S.	REVISED -
DRAWN	- L.G.N.	REVISED -
CHECKED	- G.F.S.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LILY CACHE ROAD

SCALE: 1" = 10' | SHEET NO. 1 OF 2 SHEETS | STA. 100+00.00 TO STA. 101+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
300	78-00074-01-BR	WILL	78	77
	WHA* 1356(D11)	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT (BHM-9003(658))			



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

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

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WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: 184-000918

DESIGNED	L.G.N.	REVISED -
CHECKED	G.F.S.	REVISED -
DRAWN	L.G.N.	REVISED -
CHECKED	G.F.S.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LILY CACHE ROAD

SCALE: 1" = 10' | SHEET NO. 2 OF 2 SHEETS | STA. 102+00.00 TO STA. 102+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
300	78-00074-01-BR	WILL	78	78
	WHA* 1356011	CONTRACT NO. 61B98		
	ILLINOIS FED. AID PROJECT BHM-9003(658)			