

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E., SCHAUMBURG, IL

09-19-2025 LETTING ITEM 002

FOR HIGHWAY STANDARDS, SEE SHEETS NO. 2

TRAFFIC DATA

ROADWAY ADT
LAKE ROAD 2023 - 325 TRUCK - 0%
2050 - 340 TRUCK - 0%

ROADWAY POSTED / DESIGN SPEEDS
LAKE ROAD 25 MPH / 25 MPH
WOODBINE LANE 25 MPH / 25 MPH

ROADWAY DESIGN DESIGNATION
LAKE ROAD LOCAL ROAD
WOODBINE LANE LOCAL ROAD

PROJECT SEALS

HW LOCHNER, INC.
JACOB A. NARDULLI, PE
* 062-068656
DATE: 06-09-2025
SIGNATURE AND SEAL APPLY TO SHEETS WITH COMPANY LOGO ONLY FOR SHEETS 1-21, 30-31, 79-86
EXPIRATION DATE: 11-30-2026

Jacob A. Nardulli

HW LOCHNER, INC.
JIANQING HONG, SE
* 081-006053
DATE: 06-09-2025
SIGNATURE AND SEAL APPLY TO SHEETS WITH COMPANY LOGO ONLY FOR SHEETS 33-71
EXPIRATION DATE: 11-30-2026

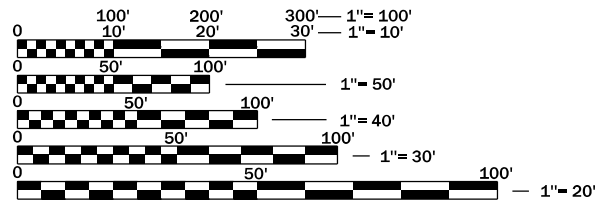
Jianqing Hong

HW LOCHNER, INC.
ANDREW W. MCKENNA, PE
* 062-053651
DATE: 06-09-2025
SIGNATURE AND SEAL APPLY TO SHEETS WITH COMPANY LOGO ONLY FOR SHEETS 22-29, 32
EXPIRATION DATE: 11-30-2026

Andrew W. McKenna

JLK ARCHITECTS
MEG KINDELIN, AIA
* 001-022030
DATE: 06-09-2025
SIGNATURE AND SEAL APPLY TO SHEETS WITH COMPANY LOGO ONLY FOR SHEETS 72-78
EXPIRATION DATE: 11-30-2026

Meg Kindelin



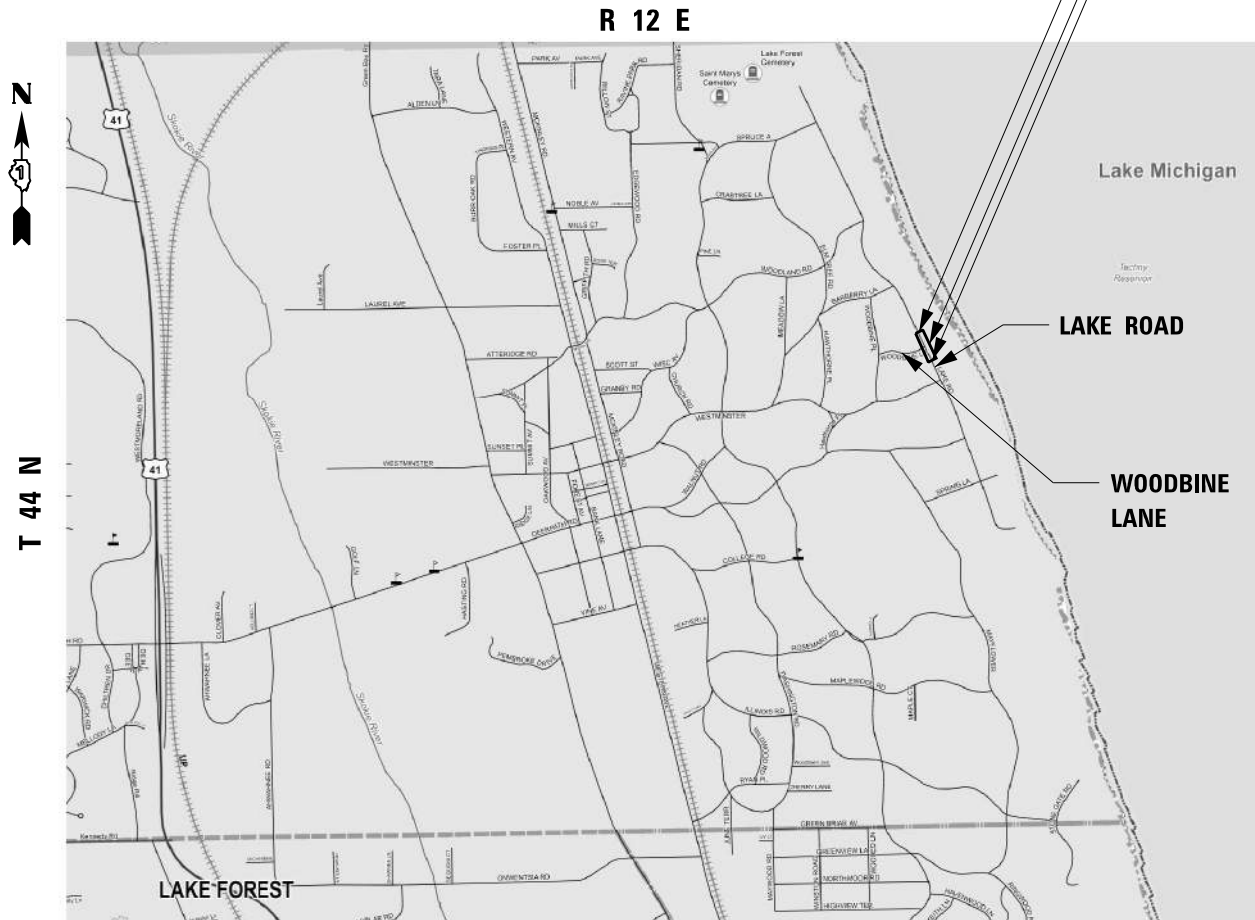
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

SUPERINTENDENT OF ENGINEERING: BYRON KUTZ, P.E.
LAKE FOREST NO. (847) 810-3555
CONTRACT NO. 61K52

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
FEDERAL-AID HIGHWAY

MUN ROUTE 1370 (LAKE ROAD)
LAKE WOODBINE BRIDGE
SECTION: 12-00094-00-BR
PROJECT NO.: SEI5(774)
BRIDGE RECONSTRUCTION
LAKE COUNTY
JOB NO.: C-91-253-12



LOCATION MAP

GROSS LENGTH = 310 FT. = 0.06 MILES

NET LENGTH = 310 FT. = 0.06 MILES

0 0.2 MI 0.4 MI
APPROXIMATE SCALE

END IMPROVEMENT
STA. 305 + 20.00

EXISTING S.N. 049-6852
PROPOSED S.N. 049-6851

BEGIN IMPROVEMENT
STA. 302 + 10



Lochner

225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED *June 9, 2025*
Byron Kutz
CITY OF LAKE FOREST, SUPERINTENDENT OF ENGINEERING

PASSED *July 16, 2025*
C. Kutz
DISTRICT 1, ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW *Jul 16, 2025*
Joe
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

DRAWING NO.			DESCRIPTION
1			COVER SHEET
2			INDEX OF SHEETS & HIGHWAY STANDARDS
3			GENERAL NOTES
4	-	9	SUMMARY OF QUANTITIES
10	-	11	TYPICAL SECTIONS
12	-	13	SCHEDULE OF QUANTITIES
14	-	15	ALIGNMENT, TIES, AND BENCHMARKS
16			REMOVAL PLAN
17			ROADWAY PLAN AND PROFILE
18			GRADING PLAN
19			DETOUR PLAN
20			MAINTENANCE OF TRAFFIC
21			CONSTRUCTION ROUTE
22			EROSION AND SEDIMENT CONTROL GENERAL NOTES
23			EROSION AND SEDIMENT CONTROL PLAN
24	-	28	EROSION AND SEDIMENT CONTROL DETAILS
29			DRAINAGE & UTILITY PLAN & PROFILE
30	-	31	ROADWAY DETAILS
32			LANDSCAPING PLAN
33	-	71	LAKE WOODBINE BRIDGE
72	-	78	ARCHITECTURAL PLAN AND DETAILS
79	-	86	STANDARD DETAILS

IDOT HIGHWAY STANDARDS

280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602401-07	PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER
604086-05	FRAME AND GRATE TYPE 23
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
640001-01	SIGHT SCREEN CHAIN LINK FENCE
664001-02	CHAIN LINK FENCE
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES

IDOT DISTRICT 1 STANDARDS

BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
-------	---

LAKE FOREST STANDARD DETAILS

2.03	TYPICAL CROSS-SECTION FOR STREET IMPROVEMENTS IN RESIDENTIAL AREAS
2.06	STANDARD CURB SECTIONS
2.07	RESIDENTIAL DRIVE APPROACH
2.08	STANDARD SIDEWALK RAMP
2.12	SIDEWALK DETAIL
2.16	RAISED REFLECTIVE PAVEMENT MARKERS
2.17	TYPICAL CROSSWALK
3.01	TYPE A STORM MANHOLE DETAIL
3.02	TYPE 1 LID AND FRAME FOR STORM MANHOLE
3.03	TYPE 2 FRAME AND GRATE
3.06	CATCH BASIN TYPE A
3.09	STORM SEWER BEDDING DETAIL
11.02	SILT FENCE DETAIL
11.03	STABILIZED CONSTRUCTION ENTRANCE
11.04	TEMPORARY TOPSOIL STOCKPILE

Model: Default
FILE NAME: p:\proj\lochner-pw-bentley.com\lochner-pw-01\Documents\projects\000020201&0 CAD\General\20201-SHT-HW1-GEN\INDEX STANDARDS_GENNOTES.dgn



225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)

USER NAME	Personal	DESIGNED	-	JN	REVISED	-	
		DRAWN	-	JN	REVISED	-	
PLOT SCALE		CHECKED	-	DS	REVISED	-	
PLOT DATE	6/5/2025	DATE	-	6/9/2025	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS & HIGHWAY STANDARDS LAKE WOODBINE BRIDGE			
SCALE: N/A	SHEET 1 OF 2 SHEETS	STA. N/A	TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	2
CONTRACT NO. 61K52				
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

1.

ANY REFERENCE TO A STANDARD THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO MEAN THE LATEST EDITION OF THAT STANDARD AS PUBLISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
2.

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.
3.

THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS CALLED FOR IN THE APPLICATION OF TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS AND THE PLANS.
4.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR MUST CALL J.U.L.I.E. AT 1-800-892-123 AT FIELD LOCATIONS OF BURIED UTILITIES. A 48 HOUR NOTIFICATION IS REQUIRED.
5.

THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
6.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND UTILITIES, SURFACE UTILITIES, AND UTILITIES HANGING FROM THE BRIDGE EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
7.

ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN ALONG RETURNS AND AT POINTS OF CURVATURE, ETC. ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8.

OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE CENTERLINE AND SURVEY ALIGNMENT.
9.

THE OFFSETS FOR DRAINAGE STRUCTURES WITHIN THE CURB ARE MEASURED TO THE EDGE OF PAVEMENT. THE OFFSETS FOR ALL OTHER DRAINAGE STRUCTURES ARE MEASURED TO THE CENTER OF THE STRUCTURE. THE RIM ELEVATIONS FOR DRAINAGE STRUCTURES WITHIN THE CURB ARE AT THE EDGE OF PAVEMENT. THE RIM ELEVATIONS FOR ALL OTHER DRAINAGE STRUCTURES ARE AT THE CENTER OF STRUCTURE (CONCENTRIC STRUCTURE ASSUMED FOR CALCULATIONS OF RIM ELEVATION).
10.

ANY LOOSE MATERIAL DEPOSITED IN THE FLOWLINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS.
11.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN AN OPERATING CONDITION, TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS, AND CATCH BASINS. EXISTING FIELD TILES ENCOUNTERED SHALL BE PERMANENTLY REPAIRED. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM WATER FLOW RATES NORMALLY ACCEPTED AND RELEASED BY THE EXISTING DRAINAGE FACILITIES.
12.

THE CONTRACTOR IS RESPONSIBLE FOR DIVERTING AND MAINTAINING THE WATER FLOW FROM THE CONSTRUCTION AREA IN ACCORDANCE WITH ARTICLE 540.04.
13.

STORM SEWER, WATER MAIN, AND SANITARY SEWER SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 593, THE CONTRACT SPECIAL PROVISIONS, OR AS DIRECTED BY THE ENGINEER. NO SAND TRENCH BACKFILL IS ALLOWED.
14.

ALL SIGNS SHALL BE ERECTED IN STRICT CONFORMANCE WITH SECTION 720 OF THE STANDARD SPECIFICATIONS AND BY A CONTRACTOR PREQUALIFIED IN SIGNING WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
15.

ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:

SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK NECESSITATES IT.

ALL REMOVED SIGNS SHALL BE RETURNED TO THE CITY OF LAKE FOREST AS APPLICABLE.

LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS.

16.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THE CONTRACT AND PRIOR TO ORDERING MATERIALS.
17.

WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
18.

THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN EXISTING ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.
19.

NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.
20.

ALL SCHOOL DISTRICTS, LOCAL POLICE DEPARTMENTS AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION.
CITY OF LAKE FOREST FIRE DEPARTMENT AND POLICE DEPARTMENT CONTACT:
PHONE: 847-234-2601
21.

THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.
22.

THE CONTRACTOR SHALL PREPARE THE SUBGRADE IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS PRIOR TO THE REMOVAL OF ANY UNSUITABLE MATERIALS.
23.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON CITY OF LAKE FOREST PROPERTY WITHOUT WRITTEN CONSENT FROM THE CITY OF LAKE FOREST. THE CONTRACTOR IS ALLOWED TO CLOSE THE NORTH BEACH ACCESS ROAD UNTIL 5/1/2025 FOR WORKER PARKING AND MATERIAL STORAGE, BUT MUST MAINTAIN 1 LANE FOR FIRE ACCESS. SEE THE DETOUR PLAN FOR ADDITIONAL LOCATION INFORMATION.
24.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
25.

SAW CUTTING WILL BE REQUIRED FOR ALL REMOVAL ITEMS LISTED IN SECTION 440 OF THE STANDARD SPECIFICATIONS, SHOWN IN THE PLANS, AND AS DIRECTED BY THE ENGINEER.
26.

ALL FRAMES, GRATES, SIGNS, FENCES AND DELINEATORS, NEW OR EXISTING, DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR.
27.

ALL NITROGEN, PHOSPHOROUS AND POTASSIUM FERTILIZER NUTRIENTS HAVE BEEN INTENTIONALLY OMITTED FROM THE CONTRACT ON THE SODDING APPLICATION.
28.

THE CONTRACTOR SHALL VERIFY ALL PLAN DIMENSIONS AND ELEVATIONS LISTED IN THE PLANS AND SPECIFICATIONS.
29.

THE CONSTRUCTION LAYOUT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
30.

THE CONTRACTOR IS REQUIRED TO USE ONLY THOSE ROUTES SHOWN IN THE PLANS FOR SITE ACCESS UNLESS OTHERWISE ALLOWED BY THE CITY OF LAKE FOREST.
31.

THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. THOSE SEEKING HISTORIC AS-BUILT OR OTHER RECORD PLANS SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT: BYRON KUTZ, P.E. LAKE FOREST SUPERINTENDENT OF ENGINEERING. (847) 810-3555.
32.

THOSE SEEKING THE FULL HYDRAULIC REPORT SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT: BYRON KUTZ, P.E. LAKE FOREST SUPERINTENDENT OF ENGINEERING. (847) 810-3555.

33.

GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
34.

ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
35.

THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
36.

THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.

COMMITMENTS

- A.

CONSTRUCTION MOCKUP:
A MOCKUP OF THE CONCRETE SHALL BE PROVIDED PRIOR TO CONSTRUCTION OF THE BRIDGE. THE INTENT IS TO REPLICATE THE COLOR, TONE AND TEXTURE OF THE EXISTING BRIDGE TO THE EXTENT POSSIBLE. A BRIGHT, WHITE CONCRETE SHALL BE AVOIDED. SEE THE CONCRETE STRUCTURE FINISH SPECIAL PROVISION FOR MORE INFORMATION.
- B.

CONTINUED PUBLIC INVOLVEMENT:
PUBLIC NOTICE OF CONSTRUCTION, CONSTRUCTION TRUCK ROUTES, AND DETOUR ROUTES SHALL ALL BE INCLUDED IN THE PRE-CONSTRUCTION PLANNING PROCESS AND COMMUNICATED TO THE COMMUNITY.
- C.

TREE REMOVAL:
TREES THREE (3) INCHES IN DIAMETER OR GREATER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30 OF ANY GIVEN YEAR.

Model: Default
File Name: p:\projects\p2\lochner-cw-bentley.com\lochner-pw-01\Documents\p-objects\00003020301&0 CAD\General\20201-SHT-HWL-GENINDEX-STANDARDS_GENNOTES.dgn



Lochner

225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)

USER NAME	Personal	DESIGNED	-	JN	REVISED	-	
		DRAWN	-	JN	REVISED	-	
PLOT SCALE		CHECKED	-	DS	REVISED	-	
PLOT DATE	7/14/2025	DATE	-	6/9/2025	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
LAKE WOODBINE BRIDGE

SCALE: N/A

SHEET 2 OF 2 SHEETS

STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	3
		CONTRACT NO. 61K52		
		ILLINOIS	FED. AID PROJECT	

MODEL Default: pw\lochner-pw Bentley.com\lochner-pw\01\Documents\Projects\00000303016.0 CAD\General\20201-SHT-WHL-SBH-SQ.dgn
FILE NAME: pw\lochner-pw Bentley.com\lochner-pw\01\Documents\Projects\00000303016.0 CAD\General\20201-SHT-WHL-SBH-SQ.dgn

PAY ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED / 20% LOCAL	
				BRIDGE REPLACEMENT	TRAINEES
				0010	0042
				URBAN	URBAN
20101000	TEMPORARY FENCE	FOOT	560	560	
* 20101100	TREE TRUNK PROTECTION	EACH	12	12	
* 20101200	TREE ROOT PRUNING	EACH	2	2	
* 20101400	NITROGEN FERTILIZER NUTRIENT	POUND	8	8	
* 20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	8	8	
* 20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	8	8	
20200100	EARTH EXCAVATION	CU YD	50	50	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	40	40	
20400800	FURNISHED EXCAVATION	CU YD	280	280	
20800150	TRENCH BACKFILL	CU YD	8	8	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	119	119	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	95	95	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	50	50	
21400100	GRADING AND SHAPING DITCHES	FOOT	6	6	
* 25100645	WILDLIFE FRIENDLY EROSION CONTROL BLANKET	SQ YD	94	94	
* 25100900	TURF REINFORCEMENT MAT	SQ YD	628	628	
* 25200110	SODDING, SALT TOLERANT	SQ YD	578	578	
* 25200200	SUPPLEMENTAL WATERING	UNIT	20	20	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50	50	
28000400	PERIMETER EROSION BARRIER	FOOT	258	258	
*	SPECIALTY ITEM				



225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)

USER NAME = Personal	DESIGNED - JN	REVISED -
	DRAWN - JN	REVISED -
PLOT SCALE =	CHECKED - DS	REVISED -
PLOT DATE = 6/24/2025	DATE - 6/9/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES LAKE WOODBINE BRIDGE			
SCALE: N/A	SHEET 1 OF 6 SHEETS	STA. N/A	TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	4
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

MODEL - Default
FILE NAME - pw\lochner-pw.bentley.com\lochner-pw\01\Documents\Projects\000020201\6.0 CADD\General\20201-SHT-HWL-GBL-SDQ.dgn

PAY ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED / 20% LOCAL	
				BRIDGE REPLACEMENT	TRAINEES
				0010	0042
				URBAN	URBAN
28000510	INLET FILTERS	EACH	7	7	
28100107	STONE RIPRAP, CLASS A4	SQ YD	8	8	
28200200	FILTER FABRIC	SQ YD	8	8	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	40	40	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	554	554	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	554	554	
35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SQ YD	474	474	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,068	1,068	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	427	427	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	378	378	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	60	60	
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	40	40	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	466	466	
42400800	DETECTABLE WARNINGS	SQ FT	20	20	
44000100	PAVEMENT REMOVAL	SQ YD	475	475	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	216	216	
44000600	SIDEWALK REMOVAL	SQ FT	449	449	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50200100	STRUCTURE EXCAVATION	CU YD	135	135	
50300225	CONCRETE STRUCTURES	CU YD	153.3	153.3	
* SPECIALTY ITEM					



225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)

USER NAME = Personal	DESIGNED - JN	REVISED -
	DRAWN - JN	REVISED -
PLOT SCALE =	CHECKED - DS	REVISED -
PLOT DATE = 6/24/2025	DATE - 6/9/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES LAKE WOODBINE BRIDGE			
SCALE: N/A	SHEET 2 OF 6 SHEETS	STA. N/A	TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	5
CONTRACT NO. 61K52				
[ILLINOIS] FED. AID PROJECT				

Model: Default
FILE NAME: p:\projects\lochner-gp-w-01\Documents\p-objects\000020201&0 CAD\General\20201-SHT-HWU-SEH-SOQ.dgn

PAY ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED / 20% LOCAL	
				BRIDGE REPLACEMENT	TRAINEES
				0010	0042
				URBAN	URBAN
50300255	CONCRETE SUPERSTRUCTURE	CU YD	198.7	198.7	
50300260	BRIDGE DECK GROOVING	SQ YD	273	273	
50300300	PROTECTIVE COAT	SQ YD	549	549	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	40.4	40.4	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	186,850	186,850	
50800530	MECHANICAL SPLICERS	EACH	536	536	
51201800	FURNISHING STEEL PILES HP14X73	FOOT	480	480	
51202305	DRIVING PILES	FOOT	480	480	
51203800	TEST PILE STEEL HP14X73	EACH	2	2	
51204650	PILE SHOES	EACH	10	10	
51500100	NAME PLATES	EACH	1	1	
51602000	PERMANENT CASING	FOOT	320	320	
51603000	DRILLED SHAFT IN SOIL	CU YD	171.1	171.1	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	18	18	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	69	69	
55100300	STORM SEWER REMOVAL 8"	FOOT	20	20	
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	134	134	
58700300	CONCRETE SEALER	SQ FT	5,434	5,434	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	58	58	
* SPECIALTY ITEM					



225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)

USER NAME	Personal	DESIGNED	- JN	REVISED	-
		DRAWN	- JN	REVISED	-
PLOT SCALE		CHECKED	- DS	REVISED	-
PLOT DATE	6/24/2025	DATE	- 6/9/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES LAKE WOODBINE BRIDGE			
SCALE: N/A	SHEET 3 OF 6 SHEETS	STA. N/A	TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	6
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: p:\proj\lochner-cw.bentley.com\lochner-pw-01\Documents\00002020\01&0_CAD\General\2020\1-SHT-HWU-SEH-SOO.dgn

PAY ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED / 20% LOCAL	
				BRIDGE REPLACEMENT	TRAINEES
				0010	0042
				URBAN	URBAN
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2	2	
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	76	76	
60146305	PIPE UNDERDRAINS FOR STRUCTURES (SPECIAL) 4"	FOOT	22	22	
60201330	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	1	1	
60207000	CATCH BASINS, TYPE A, TYPE 8 GRATE	EACH	1	1	
60208230	CATCH BASINS, TYPE C, TYPE 23 FRAME AND GRATE	EACH	1	1	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1FRAME, CLOSED LID	EACH	2	2	
60237460	INLETS, TYPE A, TYPE 23 FRAME AND GRATE	EACH	1	1	
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1	
60255500	MANHOLES TO BE ADJUSTED	EACH	2	2	
60260100	INLETS TO BE ADJUSTED	EACH	1	1	
60402210	GRATES, TYPE 8	EACH	1	1	
60404940	FRAMES AND GRATES, TYPE 23	EACH	1	1	
60500050	REMOVING CATCH BASINS	EACH	2	2	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	205	205	
* 64000110	SIGHT SCREEN (CHAIN LINK FENCE) 6'	FOOT	314	314	
* 66407600	CHAIN LINK GATES, 6' X 12' DOUBLE	EACH	3	3	
67100100	MOBILIZATION	L SUM	1	1	
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2	
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	5	5	
* SPECIALTY ITEM					



225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)

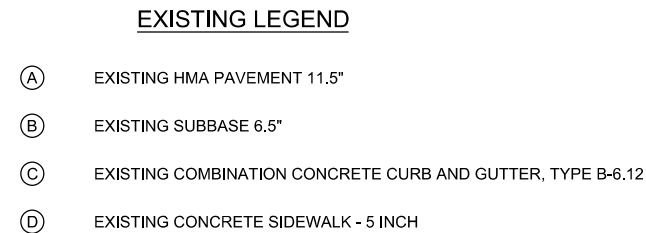
USER NAME	Personal	DESIGNED	- JN	REVISED	-
		DRAWN	- JN	REVISED	-
PLOT SCALE		CHECKED	- DS	REVISED	-
PLOT DATE	6/24/2025	DATE	- 6/9/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
LAKE WOODBINE BRIDGE

SCALE: N/A SHEET 4 OF 6 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	7
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



SOUTH OF BRIDGE
STA. 302+10 TO STA. 303+10

PROPOSED LEGEND

HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 - 1 1/2" (40604060)

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 - 2 1/4" (40603080)

HOT-MIX ASPHALT BASE COURSE, 10" (35501324)

SUBBASE GRANULAR MATERIAL, TYPE B 4" (31101200)

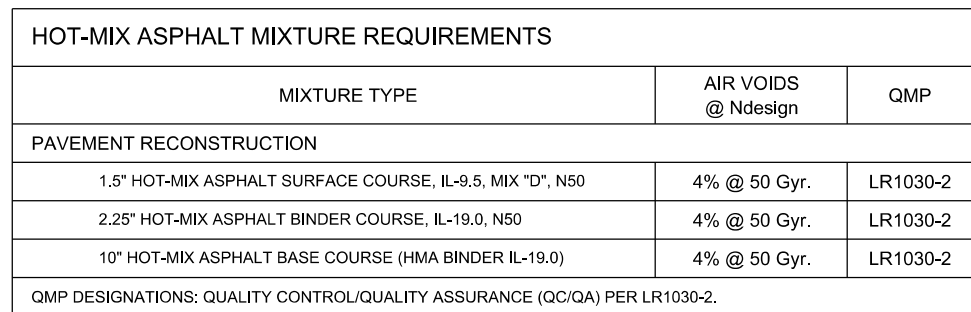
AGGREGATE SUBGRADE IMPROVEMENT 12" (30300112)

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (60603800)

TOPSOIL EXCAVATION AND PLACEMENT, 4" (21101505)

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (42400200)

SUBBASE GRANULAR MATERIAL, TYPE B 4" (INCIDENTAL)

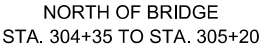
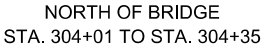


THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY THE RECLAIMED MATERIALS SPECIFICATIONS.

SOUTH OF BRIDGE
STA. 302+10.00 TO STA. 302+93.28

TYPICAL SECTIONS LAKE ROAD

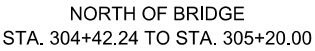
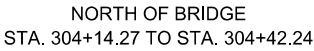
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	10
		CONTRACT NO. 61K52		
ILLINOIS		FED. AID PROJECT		



- EXISTING LEGEND**
- | | |
|-----|--|
| (A) | EXISTING HMA PAVEMENT 11.5" |
| (B) | EXISTING SUBBASE 6.5" |
| (C) | EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 |
| (D) | EXISTING CONCRETE SIDEWALK - 5 INCH |

- ## PROPOSED LEGEND
- | | |
|---|--|
| ① | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 - 1 1/2" (40604060) |
| ② | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 - 2 1/4" (40603080) |
| ③ | HOT-MIX ASPHALT BASE COURSE, 10" (35501324) |
| ④ | SUBBASE GRANULAR MATERIAL, TYPE B 4" (31101200) |
| ⑤ | AGGREGATE SUBGRADE IMPROVEMENT 12" (30300112) |
| ⑥ | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (60603800) |
| ⑦ | TOPSOIL EXCAVATION AND PLACEMENT, 4" (21101505) |
| ⑧ | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (42400200)
SUBBASE GRANULAR MATERIAL, TYPE B 4" (INCIDENTAL) |

1 TRANSITION CROSS SLOPE FROM 1.5% AT STA. 304+14.27
TO 2.0% AT STA. 304+29.27



EARTHWORK SCHEDULE					
	EARTH EX.	EXCAVATION USED AS EMBANKMENT, ADJ. FOR SHRINKAGE (15%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+), SHORTAGE (-)	TOPSOIL EX. AND PLACEMENT
	20200100			20400800	21101505
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
STA. 303+10.27 TO STA. 303+97.27	50	43	320	-277	95

NOTE: TOPSOIL EXCAVATION AND PLACEMENT AT ALL DISTURBED AREAS ASSUMED DEPTH OF 4"

20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL				
STA	STA	LT / RT	SQ FT	DEPTH	CU YD
302+10.0	302+95.9	BOTH	539.1	12	20.0
304+14.3	305+20.0	BOTH	527.2	12	19.5
TOTAL					40

ASSUMED QUANTITY EQUAL TO AGGREGATE SUBGRADE IMPROVEMENT

21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION			
STA	STA	LT / RT	SQ FT	SQ YD
302+10.0	302+95.9	BOTH	539.1	60.0
304+14.3	305+20.0	BOTH	527.2	59.0
TOTAL				119

25% OF NEW PAVEMENT AREA

21101615	TOPSOIL FURNISH AND PLACE 4"	
STA	STA	SQ YD
N/A	N/A	50
TOTAL		50

NOMINAL QUANTITY TO BE USED AT THE ENGINEER'S DISCRETION

30300001	AGGREGATE SUBGRADE IMPROVEMENT				
STA	STA	LT / RT	SQ FT	DEPTH	CU YD
302+10.0	302+95.9	BOTH	539.1	12	20.0
304+14.3	305+20.0	BOTH	527.2	12	19.5
TOTAL					40

25% OF NEW PAVEMENT AREA ASSUMED 12" DEPTH

30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"			
STA	STA	LT / RT	SQ FT	SQ YD
302+10.0	302+95.9	BOTH	2607.9	291
304+14.3	305+20.0	BOTH	2183.9	263
TOTAL				554

31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"			
STA	STA	LT / RT	SQ FT	SQ YD
302+10.0	302+95.9	BOTH	2336	291
304+17.3	305+20.0	BOTH	2081	263
TOTAL				554

35501324	HOT-MIX ASPHALT BASE COURSE, 10"			
STA	STA	LT / RT	SQ FT	SQ YD
302+10.0	302+95.9	BOTH	2,156	240
304+14.3	305+20.0	BOTH	2,109	234
TOTAL				474

40600275	BITUMINOUS MATERIALS (PRIME COAT)					
STA	STA	LT / RT	SQ FT	LIFTS	RATE	POUND
302+10.0	302+95.9	BOTH	2156	1	0.250	540
304+14.3	305+20.0	BOTH	2109	1	0.250	528
TOTAL						1,068

40600290	BITUMINOUS MATERIALS (TACK COAT)					
STA	STA	LT / RT	SQ FT	LIFTS	RATE	POUND
302+10.0	302+95.9	BOTH	2156	4	0.025	216
304+14.3	305+20.0	BOTH	2109	4	0.025	211
TOTAL						427

40600370	LONGITUDINAL JOINT SEALANT				
STA	STA	OFFSET	LIFTS	LENGTH	FOOT
302+10.0	302+93.3	0.0	2	83.0	166
304+14.3	305+20.0	0.0	2	106.0	212
TOTAL					378

PLACE BEFORE AND AFTER THE LAST LIFT OF BINDER COURSE

40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50						
STA	STA	LT / RT	SQ FT	SQ YD	THICK. (IN.)	RATE	TON
302+10.0	302+95.9	BOTH	2156.4	239.6	2 1/4	112	30
304+14.3	305+20.0	BOTH	2108.7	234.3	2 1/4	112	30
TOTAL							60

40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50						
STA	STA	LT / RT	SQ FT	SQ YD	THICK. (IN.)	RATE	TON
302+10.0	302+95.9	BOTH	2156.4	239.6	1 1/2	112	20
304+14.3	305+20.0	BOTH	2108.7	234.3	1 1/2	112	20
TOTAL							40

42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH		
STA	STA	LT / RT	SQ FT
302+37.3	302+73.5	LT	193
302+94.9	303+08.3	LT	106
304+14.2	304+44.1	LT	167
TOTAL			466

42400800	DETECTABLE WARNINGS		
STA	STA	LT / RT	SQ FT
302+70.2	302+72.7	LT	10
302+94.9	302+97.4	LT	10
TOTAL			20

44000100	PAVEMENT REMOVAL			
STA	STA	LT / RT	SQ FT	SQ YD
302+10.00	302+96.6	BOTH	2,205.7	245
304+14.3	305+20.0	BOTH	2,072.0	230
TOTAL				475

44000500	COMBINATION CURB AND GUTTER REMOVAL				
STA	OFFSET	STA	OFFSET	LT / RT	FOOT
302+10.0	10.9	302+73.0	28.1	LT	72
302+10.0	11.1	302+96.1	8.0	RT	87
302+95.8	28.9	303+05.2	11.9	LT	22
304+01.5	11.3	304+35.8	11.0	LT	35
TOTAL					216

44000600	SIDEWALK REMOVAL		
STA	STA	LT / RT	SQ FT
302+37.3	302+72.1	LT	169
302+95.4	303+05.2	LT	43
304+01.3	304+44.1	LT	237
TOTAL			449

60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12		
STA	STA	LT / RT	FOOT
302+10.0	302+75.3	LT	75
302+10.0	302+93.3	RT	83
302+93.3	302+97.2	LT	19
304+14.3	304+42.2	LT	28
TOTAL			205

Model: Default
File Name: p:\proj\technes-cw-bentley.com\technes-gw-01\Documents\000030301\6.0 CAD\General\20201-SHT-HW1-GEN-SCHEDULE.dgn



225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)

USER NAME	Personal	DESIGNED	- JN	REVISED	-
		DRAWN	- JN	REVISED	-
PLOT SCALE		CHECKED	- DS	REVISED	-
PLOT DATE	6/5/2025	DATE	- 6/9/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES
LAKE WOODBINE BRIDGE

SCALE: N/A

MUN. RTE. 1370

SECTION 12-00094-00-BR

COUNTY LAKE

TOTAL SHEETS 86

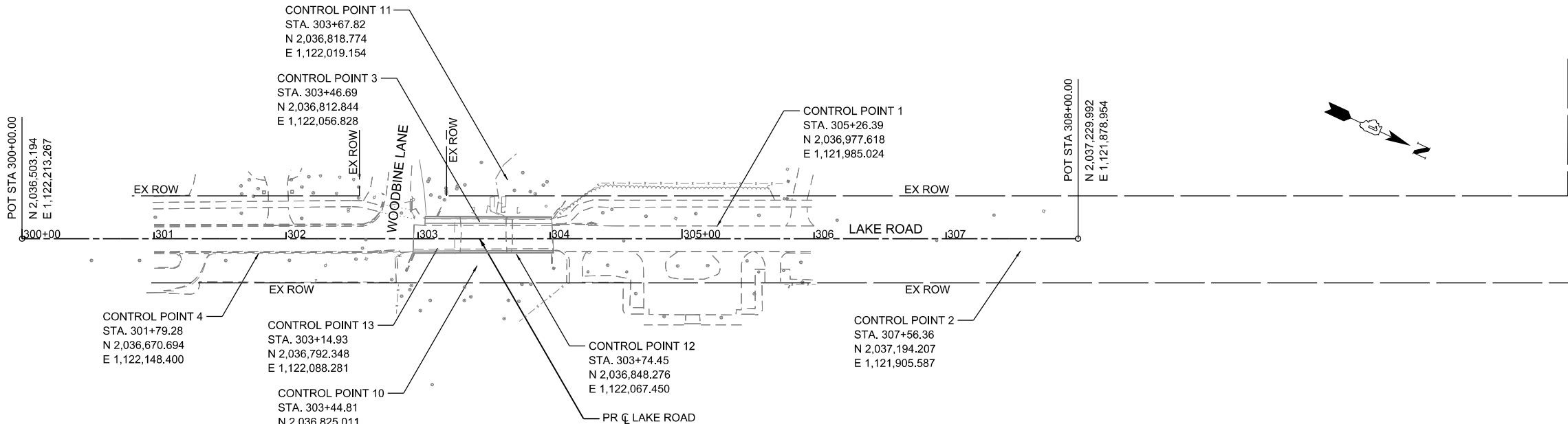
SHEET NO. 12

CONTRACT NO. 61K52

ILLINOIS

FED. AID PROJECT

ALIGNMENT COORDINATES				
ALIGNMENT	POINT	STATION	NORTHING	EASTING
PR CENTERLINE LAKE ROAD	POT	300+00.00	2,036,503.194	1,122,213.267
PR CENTERLINE LAKE ROAD	POT	308+00.00	2,037,229.992	1,121,878.954



BENCHMARKS

BM#	NORTHING	EASTING	ELEVATION	DESCRIPTION
7-52	2,036,009.568	1,120,078.288	670.40	CHISELED "X" IN MANHOLE AT THE INTERSECTION OF WESTMINSTER AVE. AND ELM TREE RD.

DATUM NOTE:

HORIZONTAL DATUM SHOWN HEREON ARE ILLINOIS STATE PLANE, EAST ZONE, NAD83(2011) GRID VALUES.

VERTICAL DATUM SHOWN HEREON IS NAVD88 BASED ON 2ND ORDER CONTROL ESTABLISHED BY US COAST AND GEODETIC SURVEY, 1935. APPROXIMATE LATITUDE N 42.25528 LONGITUDE W -87.83162.

MODEL: Default
FILE NAME: p:\projects\lake-woodbine-bridge\lake-woodbine-bridge.dgn
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)



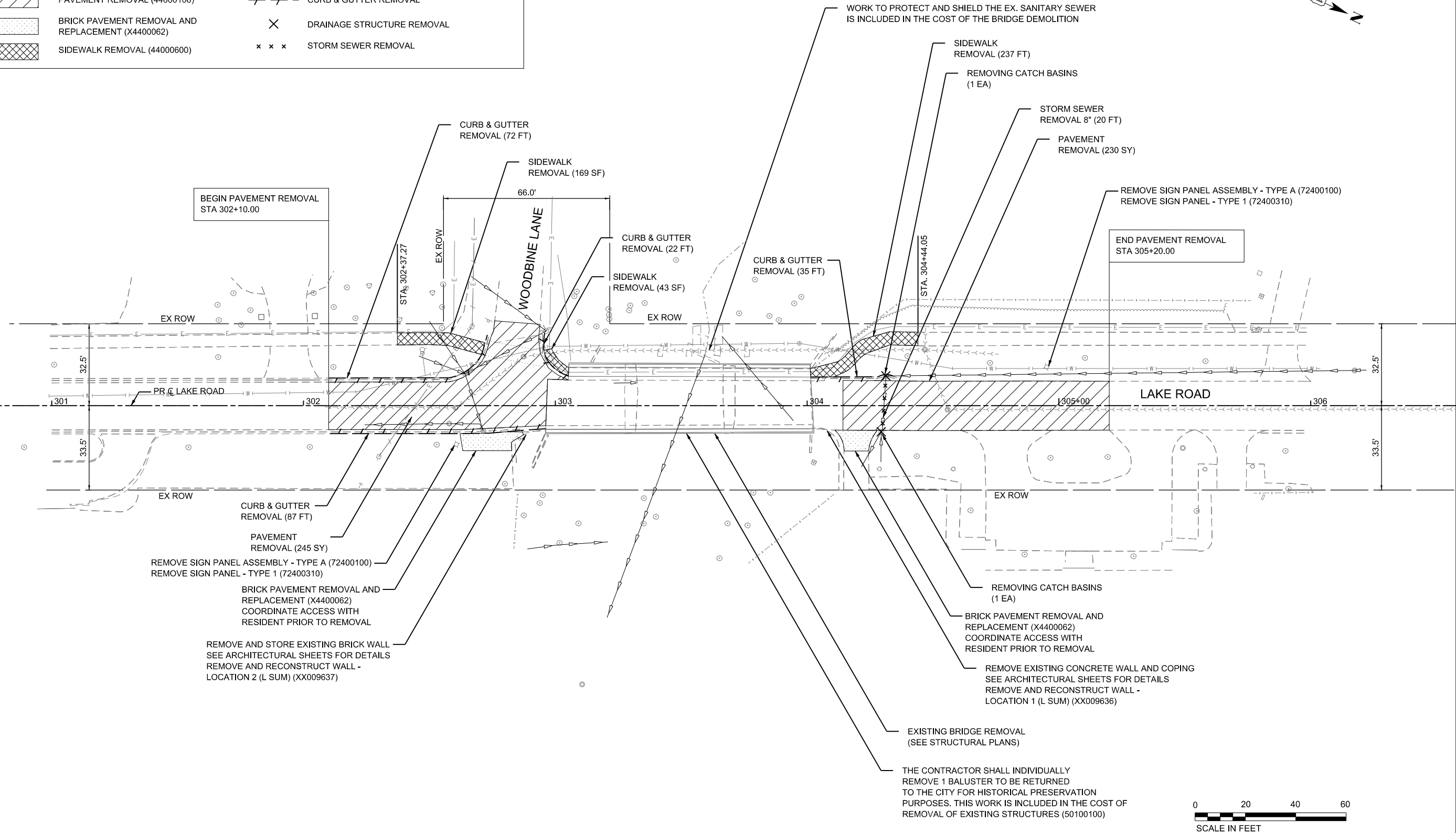
USER NAME	Personal	DESIGNED	- JN	REVISED	-
DRAWN	- JN	REVISION	-	REVISION	-
PLOT SCALE	-	CHECKED	- DS	REVISION	-
PLOT DATE	6/5/2025	DATE	6/9/2025	REVISION	-

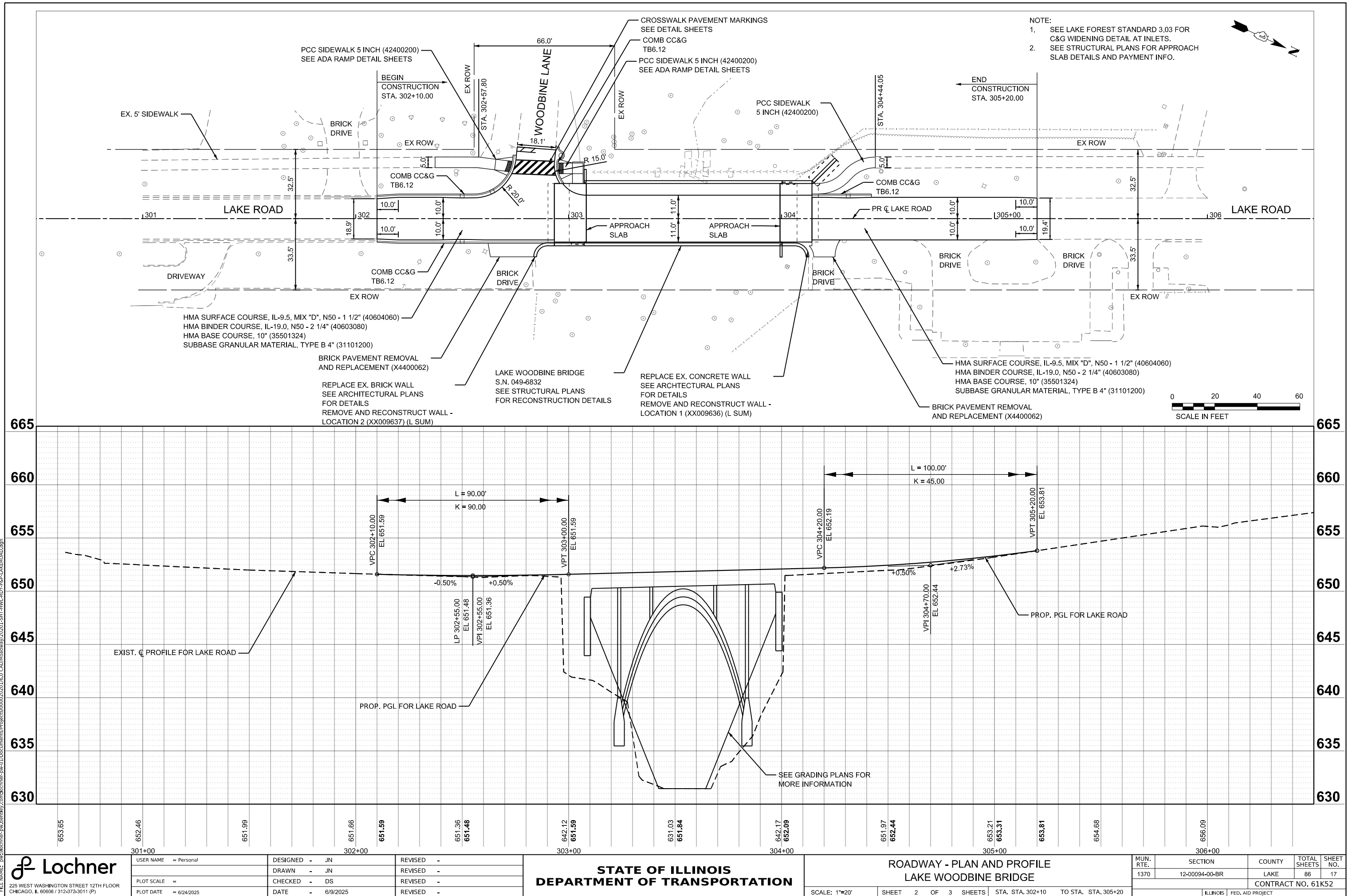
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

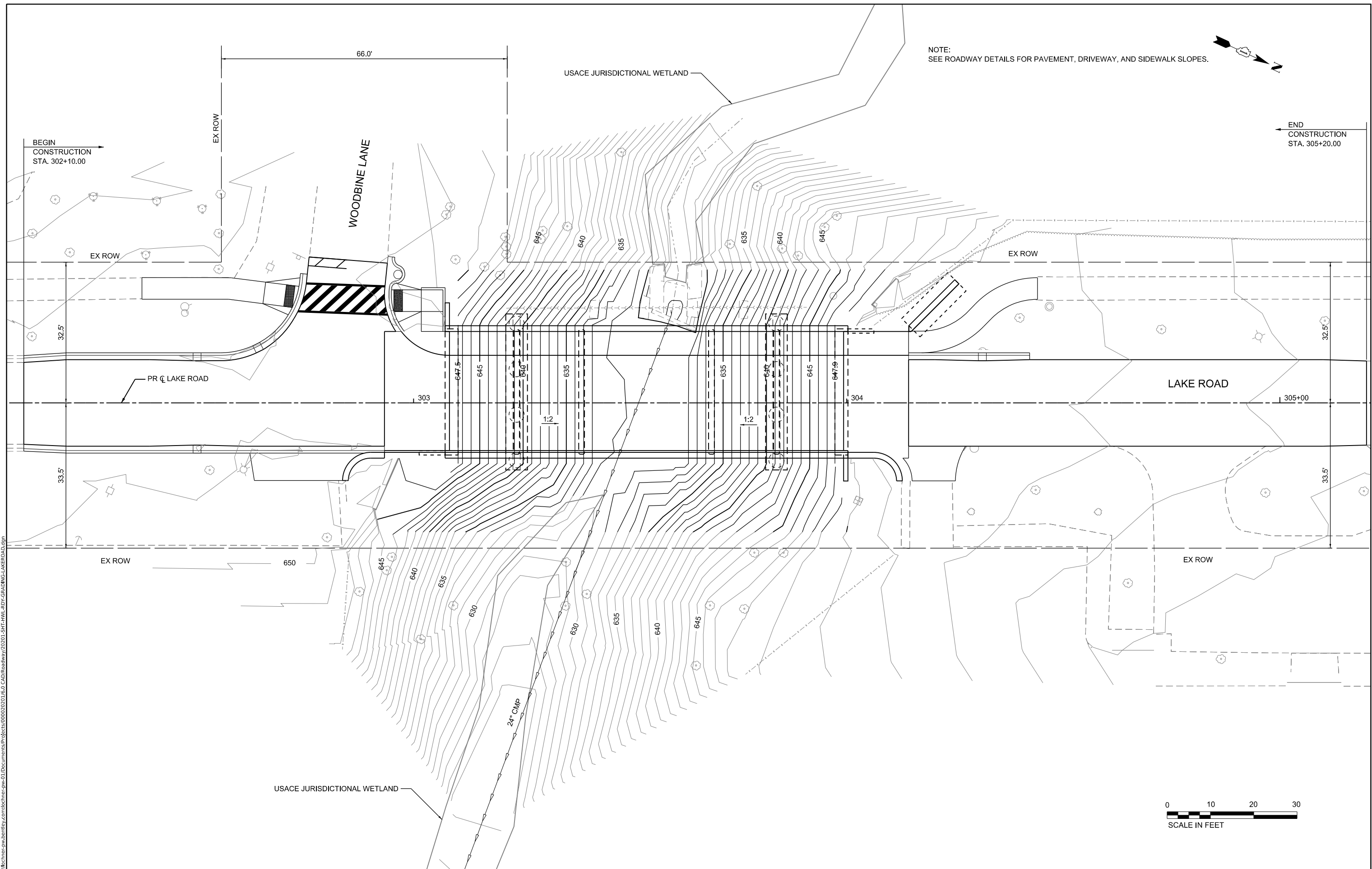
ALIGNMENT, TIES, AND BENCHMARKS LAKE WOODBINE BRIDGE			
SCALE: 1"=50'	SHEET 1 OF 2 SHEETS	STA. 300+00	TO STA. 308+00

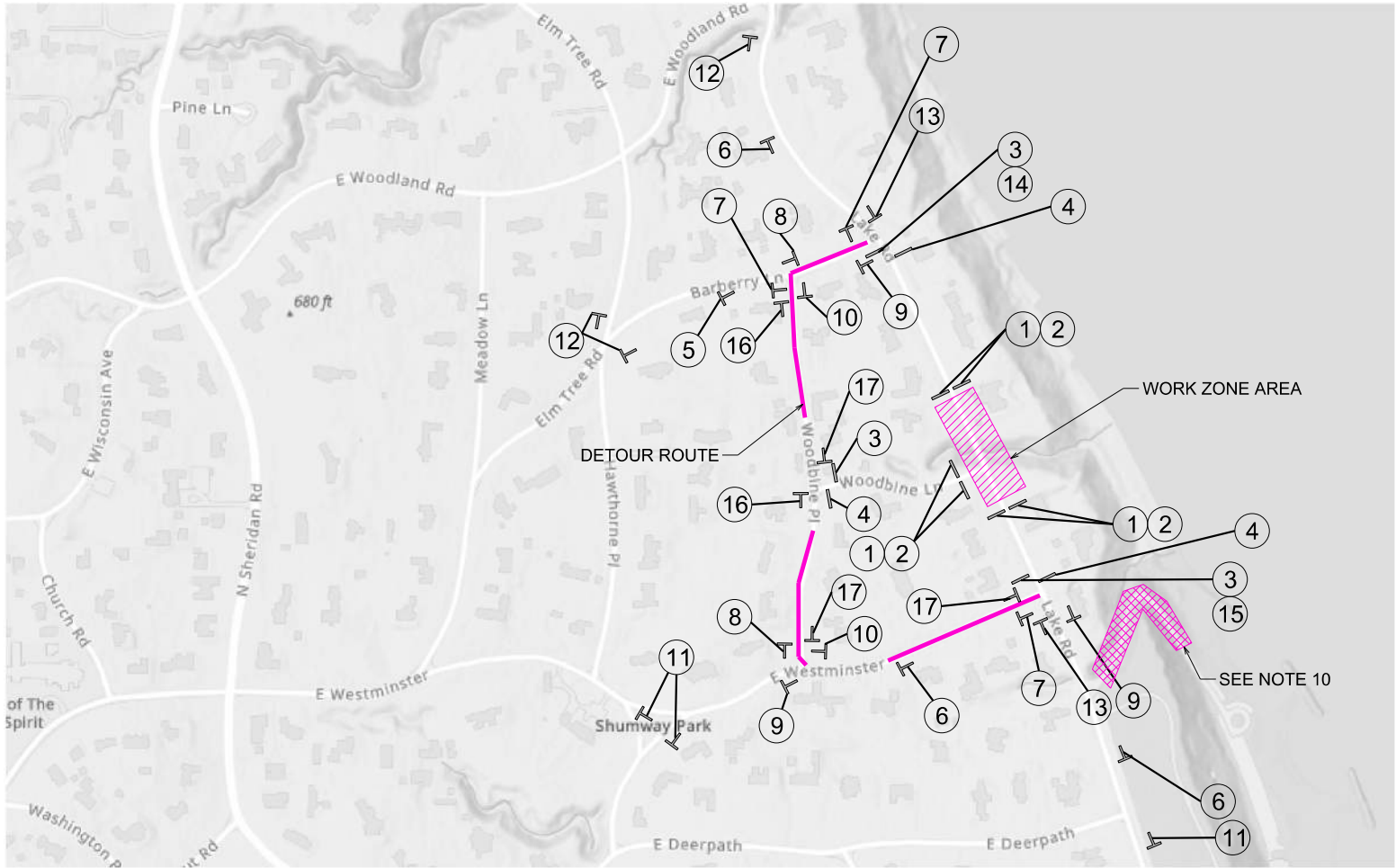
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	14
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

	PAVEMENT REMOVAL (44000100)		CURB & GUTTER REMOVAL
	BRICK PAVEMENT REMOVAL AND REPLACEMENT (X4400062)		DRAINAGE STRUCTURE REMOVAL
	SIDEWALK REMOVAL (44000600)		STORM SEWER REMOVAL

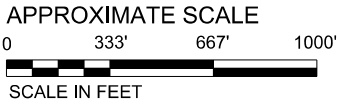






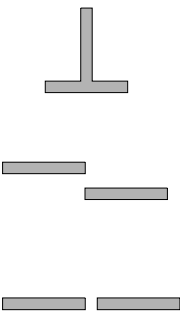


DETOUR PLAN LOCATION MAP



MAINTENANCE OF TRAFFIC NOTES

- TYPE III BARRICADES AND R11-2 SIGNS SHALL BE POSITIONED AS SHOWN IN IDOT HIGHWAY STANDARD 701901-10.
- ALL WARNING SIGNS (W-) SHALL BE POST MOUNTED.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- ALL WARNING SIGNS SHALL HAVE MINIMUM DIMENSIONS OF 48 INCHES BY 48 INCHES AND HAVE BLACK LEGEND ON AN ORANGE HIGH INTENSITY REFLECTORIZED BACKGROUND.
- LOW INTENSITY FLASHING LIGHTS SHALL BE USED ON EACH APPROACH IN ADVANCE OF THE WORK AREA DURING HOURS OF DARKNESS AND INSTALLED ABOVE THE FIRST TWO ADVANCE SIGNS.
- BARRICADES SHALL BE TO THE EDGE OF PAVEMENT, EXCEPT WHEN OTHERWISE DIRECTED BY THE ENGINEER OR SHOWN ON THE DETAILED CONSTRUCTION PLANS.
- ALL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL PLAN.
- THE LUMP SUM COST FOR "TRAFFIC CONTROL AND PROTECTION" SHALL INCLUDE ALL WORK, EQUIPMENT, AND LABOR NECESSARY TO INSTALL AND MAINTAIN THE TRAFFIC PROTECTION AND DETOUR ROUTE SIGNED ABOVE FOR THE PROJECT DURATION.
- THE CONTRACTOR IS ALLOWED TO CLOSE THE NORTH BEACH ACCESS ROAD UNTIL 5/1/2026 FOR WORKER PARKING AND MATERIAL STORAGE, BUT MUST MAINTAIN 1 LANE FOR FIRE ACCESS.
- ANY ADDITIONAL SIGNAGE SHALL BE PAID FOR AS "TEMPORARY INFORMATION SIGNING (X7200061)".
- AT LEAST 30 DAYS PRIOR TO DETOUR INSTALLATION, COORDINATE WITH SHERIDAN ELEMENTARY SCHOOL FOR SCHOOL BUS TRAFFIC. CONTACT MARY KAY HANLON. (847) 234-6299.



FREESTANDING SIGN

TYPE III BARRICADES STAGGERED 30 TO 100 FEET APART WITH TWO AMBER FLASHING LIGHTS EACH AND ONE FLAG

TYPE III BARRICADES WITH TWO AMBER FLASHING LIGHTS EACH AND ONE FLAG (AT ENDS OF CONSTRUCTION AREA)

BILL OF MATERIAL

PAY ITEM NO.	PAY ITEM	UNIT	QUANTITY
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

DETOUR SIGNAGE LEGEND

1

ROAD CLOSED

R11-2, 48"X30"

2

BRIDGE OUT

R11-2, 48"X30"

3

ROAD CLOSED TO THRU TRAFFIC

R11-4, 60"X30"

4

BRIDGE OUT LOCAL TRAFFIC ONLY

R11-3b, 60"X30"

5

DETOUR AHEAD

W20-2, 48"X48" FLASHING LIGHT

6

ROAD CLOSED 500 FT

W20-3, 48"X48"

7

SOUTH

Lake Road

DETOUR

M3-3, 24"X12" (BLACK ON ORANGE)
D3-1, VARX12" (BLACK ON ORANGE)
M4-9R, 30"X24"

8

SOUTH

Lake Road

DETOUR

M3-3, 24"X12" (BLACK ON ORANGE)
D3-1, VARX12" (BLACK ON ORANGE)
M4-9L, 30"X24"

9

NORTH

Lake Road

DETOUR

M3-3, 24"X12" (BLACK ON ORANGE)
D3-1, VARX12" (BLACK ON ORANGE)
M4-9L, 30"X24"

10

NORTH

Lake Road

DETOUR

M3-3, 24"X12" (BLACK ON ORANGE)
D3-1, VARX12" (BLACK ON ORANGE)
M4-9L, 30"X24"

11

Lake Road CLOSED NORTH OF E Westminister LOCAL TRAFFIC ONLY

PAID FOR AS TEMPORARY INFORMATION SIGNING (X7200061)

12

Lake Road CLOSED SOUTH OF Barberry Lane LOCAL TRAFFIC ONLY

PAID FOR AS TEMPORARY INFORMATION SIGNING (X7200061)

13

END DETOUR

M4-8a, 24"X18"

14

DETOUR

M4-10, 48"X18"

15

DETOUR

M4-10, 48"X18"

16

SOUTH

Lake Road

DETOUR

M3-3, 24"X12" (BLACK ON ORANGE)
D3-1, VARX12" (BLACK ON ORANGE)
M4-9L, 30"X24"

17

NORTH

Lake Road

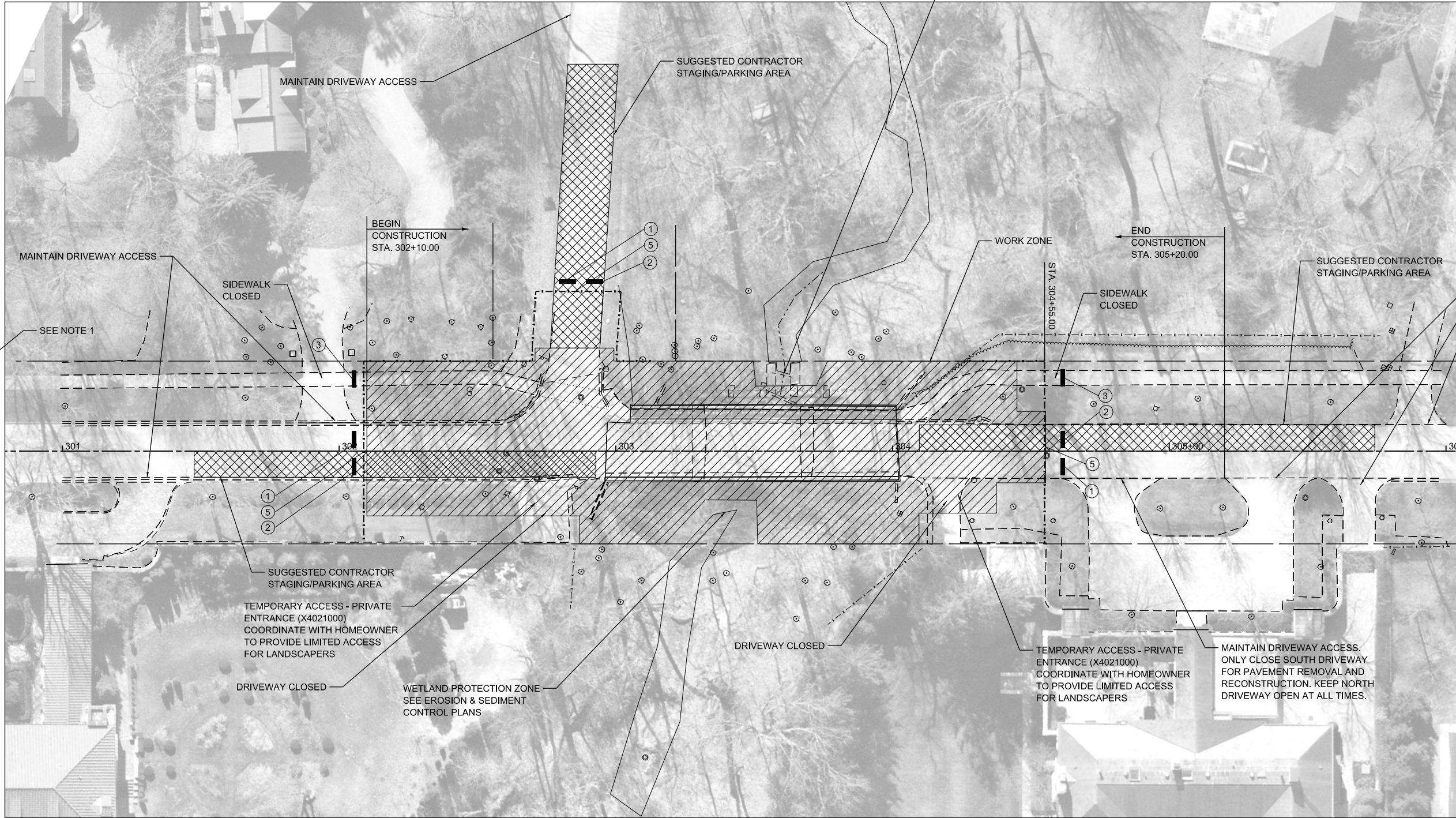
DETOUR

M3-3, 24"X12" (BLACK ON ORANGE)
D3-1, VARX12" (BLACK ON ORANGE)
M4-9L, 30"X24"

MODEL Default:
FILE NAME: C:\pwworkspace\benley.com\bin\pc-plots\16.0 CAD\Roadway\20201-SHT-HWL-DETOUR-LOCAL.dgn

USER NAME	Personal	DESIGNED	- JN	REVISED	-
		DRAWN	- JN	REVISED	-
PLOT SCALE		CHECKED	- DS	REVISED	-
PLOT DATE	7/14/2025	DATE	- 6/9/2025	REVISED	-

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	19
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



NOTES:

1. PLACE SIGN AT INTERSECTION OF WESTMINSTER AND LAKE ROAD (NOT SHOWN ON SHEET).
2. PLACE SIGN AT INTERSECTION OF WOODLAND ROAD AND LAKE ROAD (NOT SHOWN ON SHEET).
3. THE CONTRACTOR IS ALSO ALLOWED TO CLOSE THE NORTH BEACH ACCESS ROAD UNTIL 5/1/2026 FOR WORKER PARKING AND MATERIAL STORAGE, BUT MUST MAINTAIN 1 LANE FOR FIRE ACCESS.

SUGGESTED STAGING AREA

1

ROAD
CLOSED

R11-2, 48"X30"

2

BRIDGE
OUT

R11-2, 48"X30"

MAINTENANCE OF TRAFFIC LEGEND

3

SIDEWALK
CLOSED

R11-1101-2418,
24"X12"

4

SIDEWALK
CLOSED
AHEAD

W20-1b (MODIFIED)
36"X36"
(BLACK ON ORANGE)

5

SIGHT SCREEN (CHAIN LINK FENCE) 6' (64000110)

5

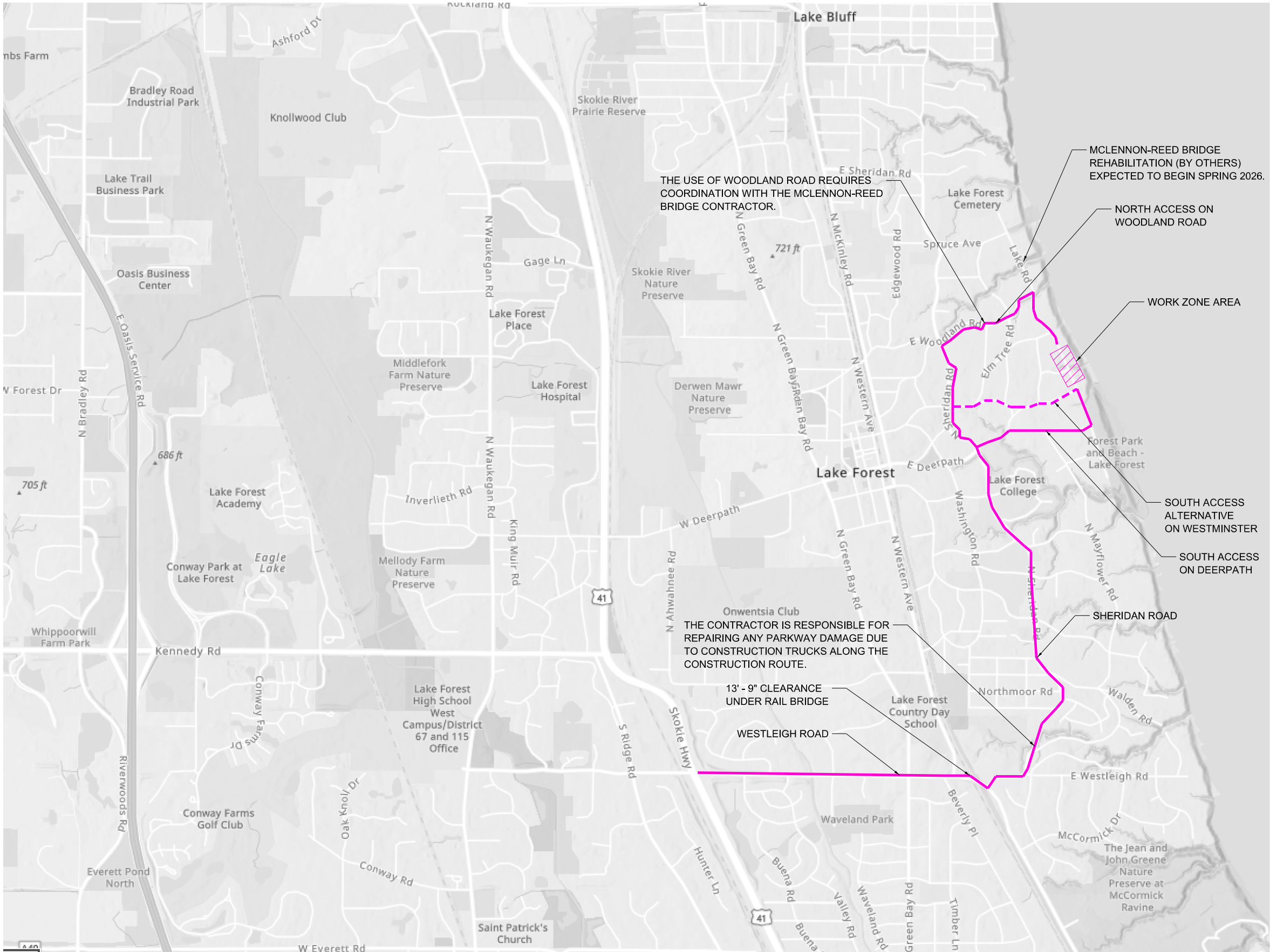
CHAIN LINK GATES, 6' X 12' DOUBLE (66407600)

WORK ZONE

SUGGESTED CONTRACTOR
STAGING/PARKING AREA

USER NAME	Personal	DESIGNED	- JN	REVISED	-
		DRAWN	- JN	REVISED	-
PLOT SCALE		CHECKED	- DS	REVISED	-
PLOT DATE	6/5/2025	DATE	6/9/2025	REVISED	-

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	20
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



MODEL: Default
FILE NAME: p:\proj\lochner\pw\bridge\constructions\61K52 CAD\Roadway\20201.SHT-HWL-DETOUR-CONSTRUCTION.dgn
6/9/2025 10:00:00 AM



Lochner

225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)

USER NAME	Personal	DESIGNED	- JN	REVISED	-
		DRAWN	- JN	REVISED	-
PLOT SCALE		CHECKED	- DS	REVISED	-
PLOT DATE	6/9/2025	DATE	- 6/9/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION ROUTE
LAKE WOODBINE BRIDGE

SCALE: NTS SHEET 3 OF 3 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	21
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

EROSION AND SEDIMENT CONTROL NOTES

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED TO THE STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, LATEST EDITION, THE CONTRACT SPECIFICATIONS, SECTION 280 OF THE STANDARD SPECIFICATIONS, LAKE COUNTY STORMWATER MANAGEMENT COMMISSION STANDARDS AND AS DIRECTED BY THE ENGINEER.
2. EROSION CONTROL MEASURES AS INDICATED IN THE PLAN OR AS DIRECTED BY THE ENGINEER MUST BE INSTALLED ON THE PROJECT SITE PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY WHICH WILL CREATE POTENTIALLY ERODIBLE CONDITIONS.
3. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
4. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 - a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 - b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
5. TEMPORARY SEED ALL BARE AND ERODIBLE AREAS EVERY SEVEN DAYS AS DIRECTED BY THE ENGINEER. TEMPORARY MULCH ALL SEEDED AREAS ACCORDING TO ARTICLE 251.03(B) OR ARTICLE 251.03(C). EROSION CONTROL BLANKET CAN BE USED INSTEAD OF MULCH ACCORDING ARTICLE 251.04.
6. INLET FILTERS WILL BE INSTALLED IN ALL CATCH BASINS, INLETS AND OPEN LID MANHOLES AS DIRECTED BY THE ENGINEER. THE FILTERS SHALL BE MAINTAINED IN THE ENTIRE DURATION OF THE PROJECT.
7. A STABILIZED MAT OF CRUSED STONE MEETING IDOT GRADATION CA-1 UNDERLAIN WITH FILTER FABRIC AND IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, OR OTHER APPROPRIATE MEASURE(S) AS APPROVED BY THE ENGINEER, SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
9. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR THEIR BUFFERS. THE STOCKPILE LOCATIONS SHALL BE DETERMINED AT THE TIME OF THE PRECONSTRUCTION MEETING AND ARE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE CITY OF LAKE FOREST.
10. SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
12. DISTRUBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
13. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
14. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
15. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.
16. SEDIMENT TRAPS, SEDIMENT BASINS, DITCHES, SEDIMENT CONTROL, SILT FENCE, STONE OUTLET STRUCTURES, EARTH BERMS, ETC. SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED DOWN. TRAPS WILL BE CLEANED WHEN THEY ARE 50% FILLED, STONE OUTLET STRUCTURES SHALL HAVE SEDIMENT REMOVED WHEN IT REACHES 50% THE HEIGHT OF THE CONTROL DEVICE. PERIMETER BARRIER FENCE SHALL HAVE SEDIMENT REMOVED WHEN IT REACHES ONE-THIRD OF THE BARRIER HEIGHT. THESE SPOILS WILL BE REMOVED TO AN APPROVED SITE.
17. IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S), WHO MAY PERFORM WORK ON THIS SITE/PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
18. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

19. TEMPORARY DIVERSION SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.
20. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES APPROVED BY THE ENGINEER.
21. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGE SHALL BE ROUTED THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENGINEER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENGINEER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES. DEWATERING MAY BE REQUIRED DURING THE INSTALLATION OF THE BRIDGE DRILLED SHAFTS.
22. IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENGINEER.

CONSTRUCTION SEQUENCE NOTES

1. INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL SE/SC MEASURES
 - A. SELECTIVE VEGETATION REMOVAL FOR PERIMETER EROSION BARRIER INSTALLATION
 - B. PERIMETER EROSION BARRIER INSTALLATION
 - C. CONSTRUCTION FENCING AROUND AREAS NOT TO BE DISTURBED
 - D. STABILIZED CONSTRUCTION ENTRANCE
 2. TREE REMOVAL WHERE NECESSARY (CLEAR & GRUB)
 3. STRIP TOPSOIL, STOCKPILE TOPSOIL AND GRADE SITE
 4. TEMPORARILY STABILIZE TOPSOIL STOCKPILES (SEED AND SILT FENCE AROUND TOE OF SLOPE)
 5. INSTALL STORM SEWER AND ASSOCIATED INLET & OUTLET PROTECTION
 6. TEMPORARILY STABILIZE ALL DISTURBED AREAS THAT HAVE REACHED TEMPORARY GRADE
 7. INSTALL ROADWAY & BRIDGE
 8. PERMANENTLY STABILIZE DISTRURBED AREAS
 9. REMOVE ALL TEMPORARY SE/SC MEASURES AFTER THE SITE IS STABILIZED WITH VEGETATION
- * SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR EVERY TWO WEEKS AND AFTER EVERY 1/2 INCH OR GREATER RAINFALL EVENT

EROSION AND SEDIMENT CONTROL WETLAND AND WATERS OF THE U.S. NOTES

1. WETLAND AREAS OUTSIDE OF THE WORK ZONE ARE TO BE AVOIDED. IF THE CONTRACTOR SHOULD ENCROACH UPON ANY WETLAND AREA THAT IS NOT WITHIN THE CONSTRUCTION LIMITS AND/OR PERMITTED FOR IMPACT THROUGH THE USACE, THE CONTRACTOR IS SUBJECT TO FINES. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY WETLAND IMPACTS OUTSIDE OF THE WORK ZONE. IMPACTED AREAS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR IN COORDINATION WITH AND TO THE SATISFACTION OF THE USACE.
2. ALL WETLANDS, WATERS OF THE U.S. AND OPEN WATER DETENTION FACILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL BY RESOURCE AND REGULATORY AGENCIES. THOSE AGENCIES INCLUDE BUT ARE NOT LIMITED TO THE USACE, THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES, THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, AND THE COUNTY SOIL AND WATER CONSERVATION DISTRICT.
3. THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND EXISTING WETLANDS TO ESTABLISH A "WETLAND PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED, MATERIALS STORED, OR VEHICLES DRIVEN OR PARKED WITHIN THE "WETLAND PROTECTION ZONE". REMOVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
4. THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: PROTECT WETLAND NO INTRUSION. THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER. ATTACHING THE SIGN TO THE TEMPORARY FENCE STAKES WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY FENCE.

MODEL: Default
FILE NAME: p:\projects\lochner\proj\lochner-cw-bentley.com\lochner-gw-01\Documents\p-01\Documents-Landscape\20201-SHT-HWL-ESC_GBL.dgn



225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)

USER NAME	Personal	DESIGNED	-	GG	REVISED	-	
		DRAWN	-	GG	REVISED	-	
PLOT SCALE	99.996" / in.	CHECKED	-	AM	REVISED	-	
PLOT DATE	6/5/2025	DATE	-	6/9/2025	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION & SEDIMENT CONTROL GENERAL NOTES
LAKE WOODBINE BRIDGE

SCALE: N/A

SHEET 1 OF 7 SHEETS

STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	22
CONTRACT NO. 61K52				
		ILLINOIS	FED. AID PROJECT	

	PERIMETER EROSION BARRIER (28000400)
	TEMPORARY FENCE (20101000)
	INLET FILTER (28000510)
	TREE TRUNK PROTECTION (20101100)



USER NAME = Personal	DESIGNED = GG	REVISED =
	DRAWN = GG	REVISED =
PLOT SCALE = 39,999' / in.	CHECKED = AM	REVISED =
PLOT DATE = 6/5/2025	DATE = 6/9/2025	REVISED =

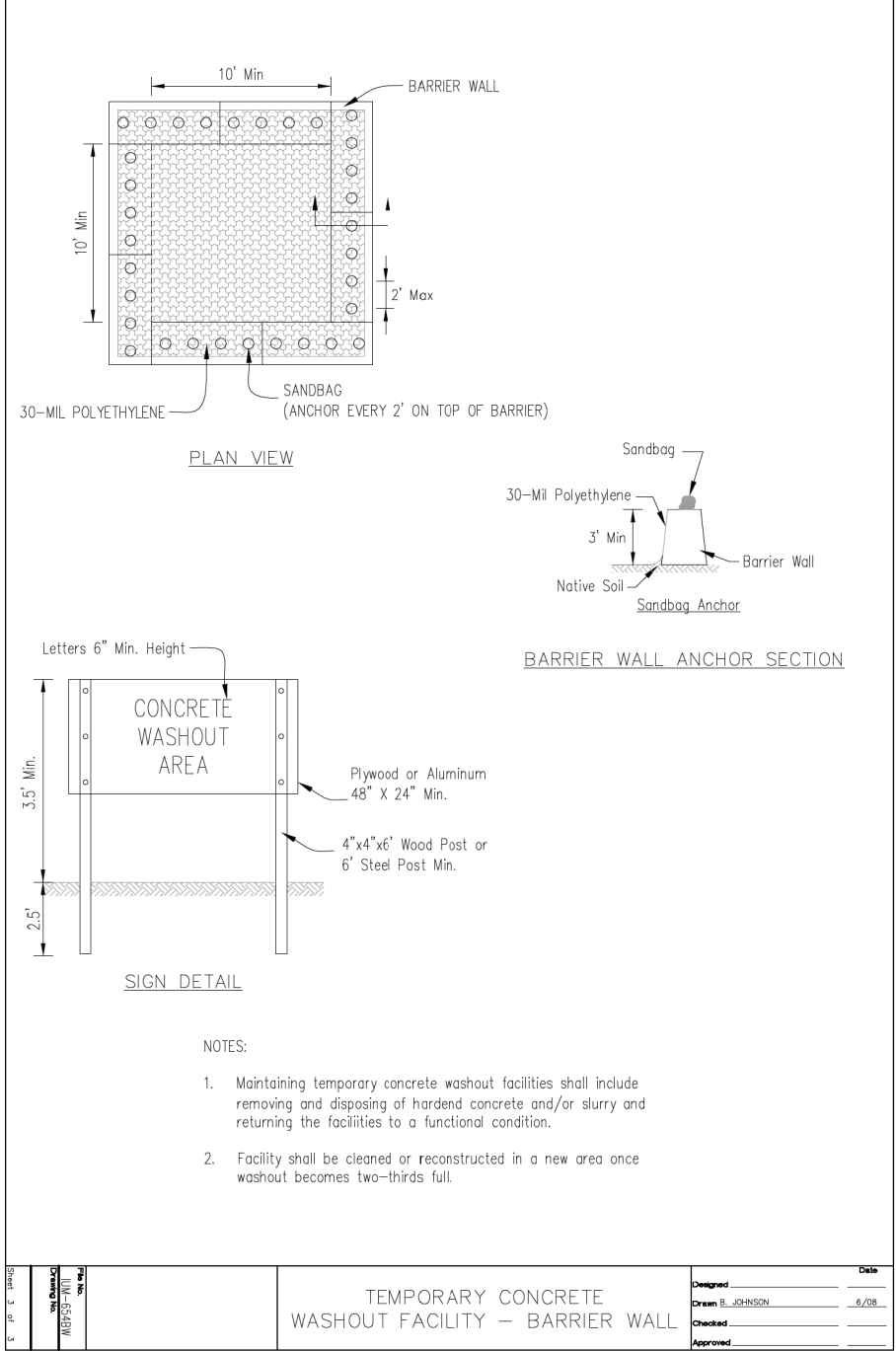
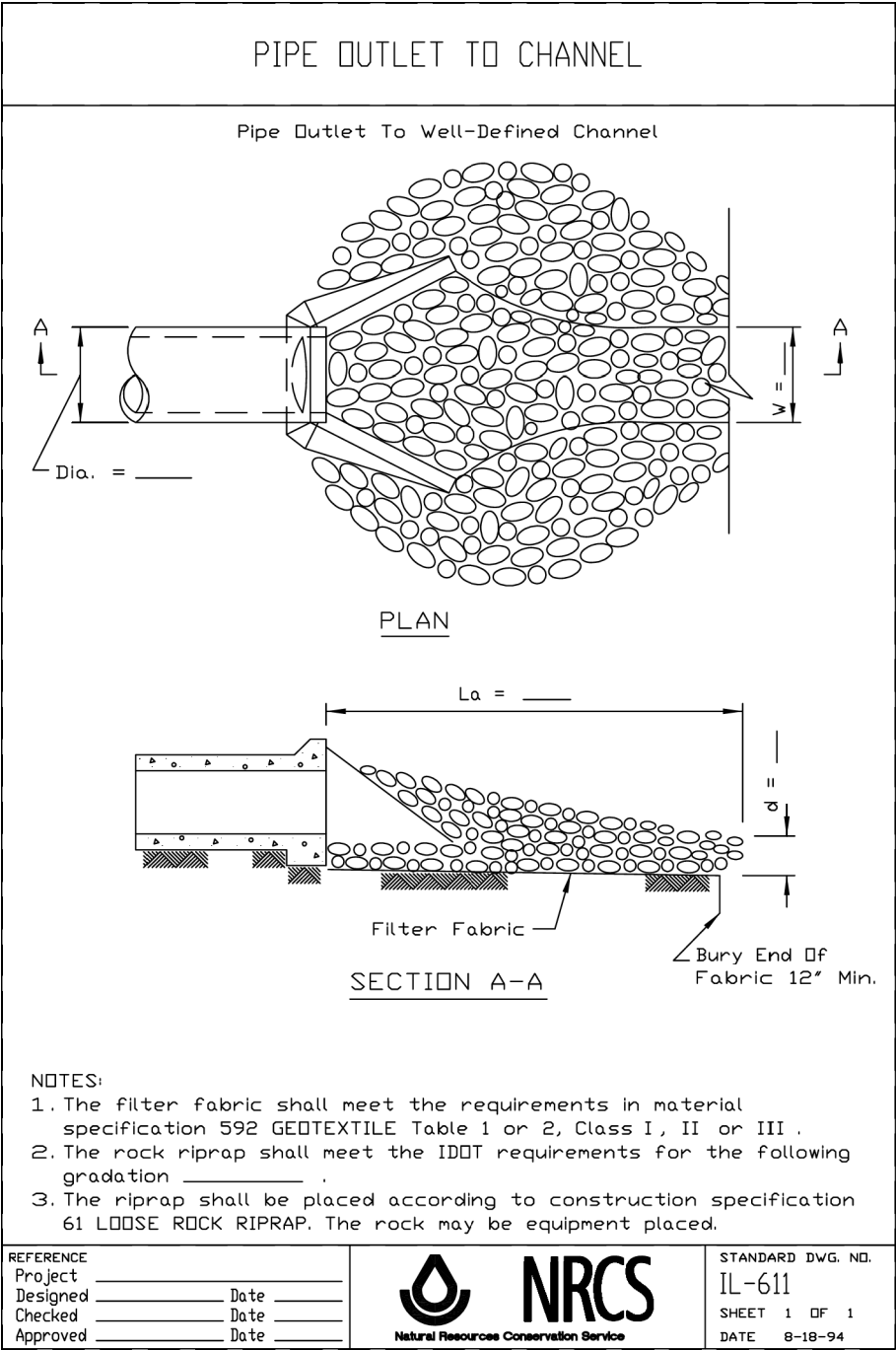
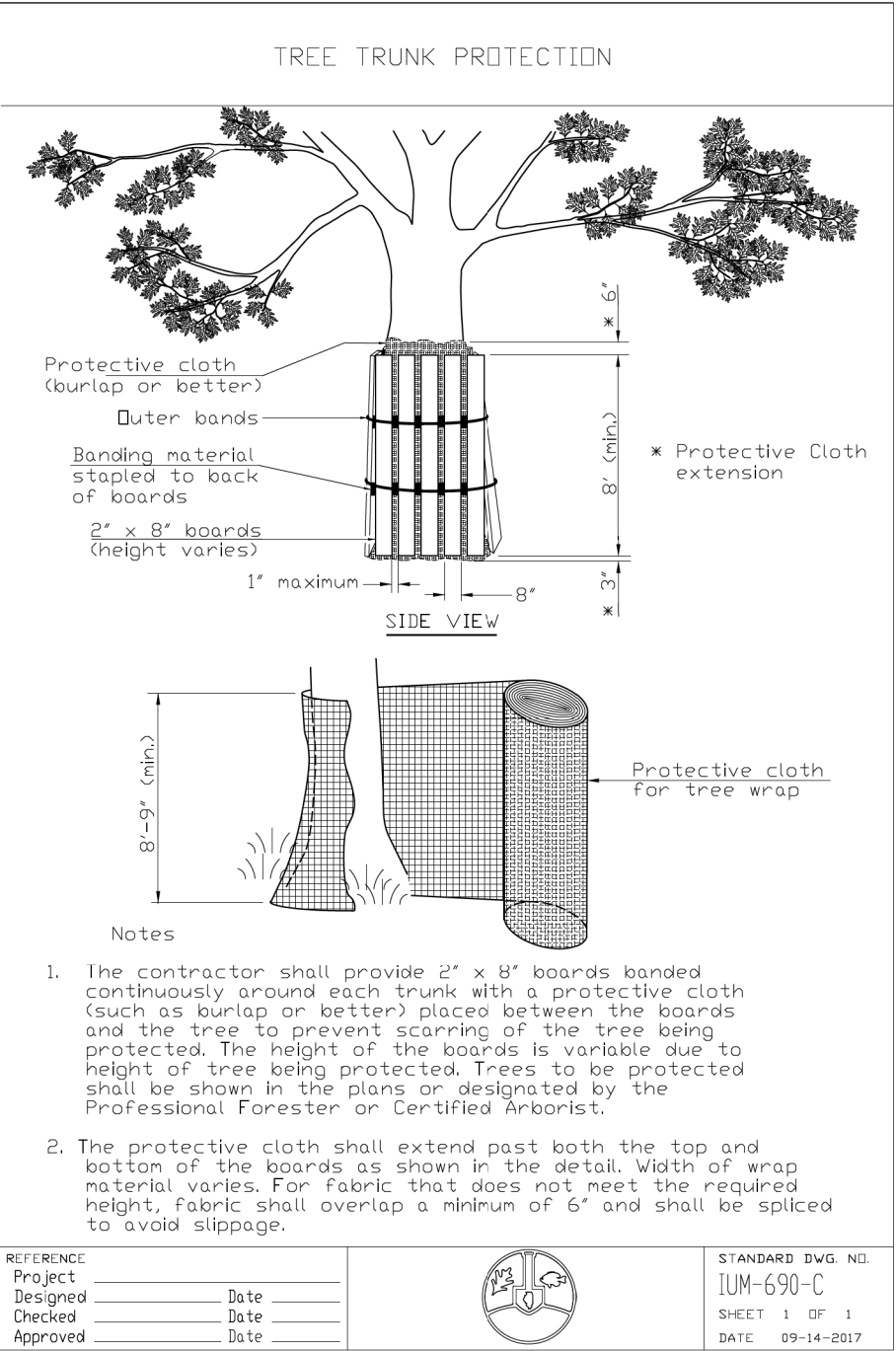
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION & SEDIMENT CONTROL PLAN
LAKE WOODBINE BRIDGE

SCALE: 1"=20'	SHEET 2 OF 7 SHEETS	STA. 302+10	TO STA. 305+20
---------------	---------------------	-------------	----------------

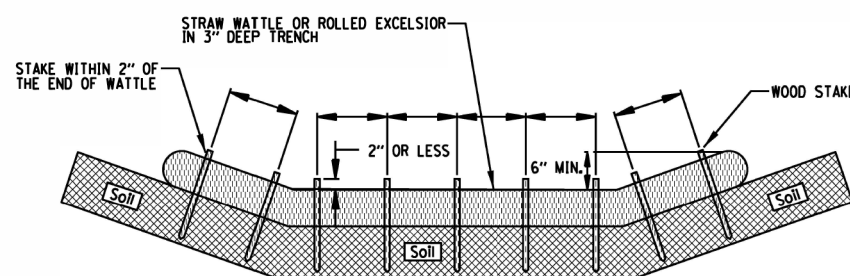
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	23
		CONTRACT NO. 61K52		
ILLINOIS		FED. AID PROJECT		

MODEL - Detail Sheet 1
FILE NAME: p:\projects\2020\20200101\6.0 CAD\erodion-landscape\20201-SHT-HWL-ESC-DETAILS.dgn



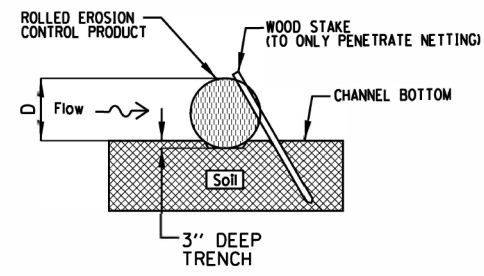
ROLLED EROSION CONTROL PRODUCTS

STAKING PATTERN GUIDE



- NOTES:
- 1. OVERLAP MINIMUM IS THE DIAMETER OF THE ROLL.
 - 2. 4' SPACING FOR WATTLES.
 - 3. 2' SPACING FOR ROLLED EXCELSIOR.
 - 4. OR SPACE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

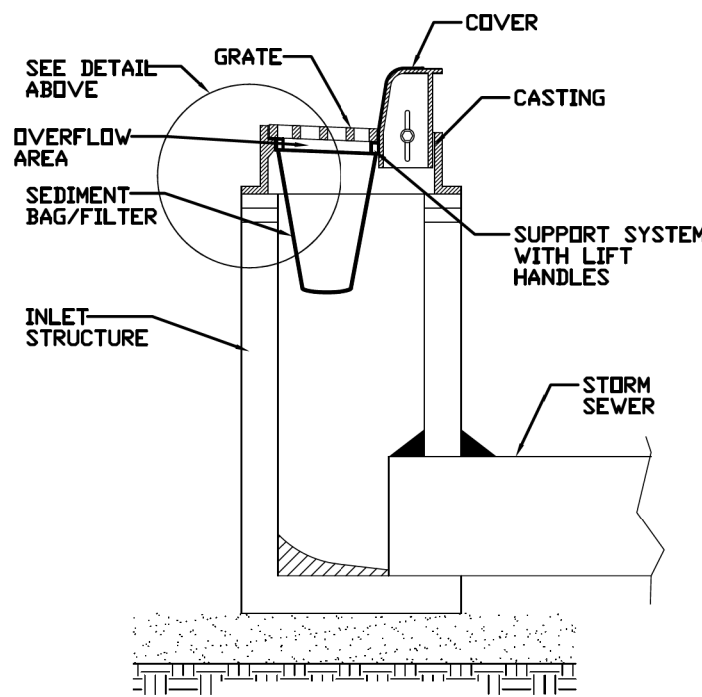
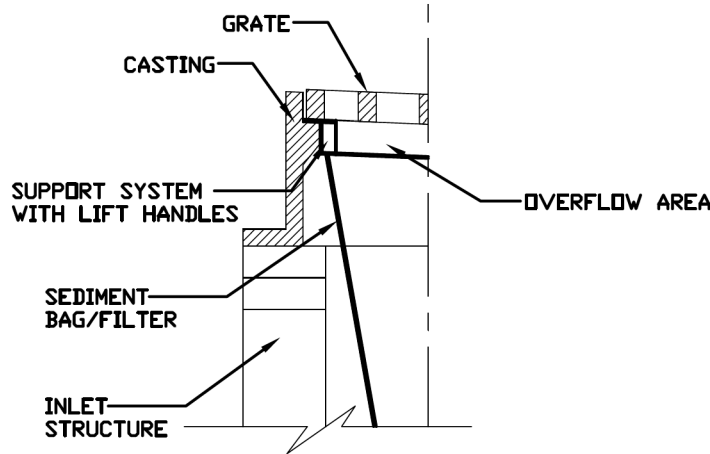
STAKE DETAIL



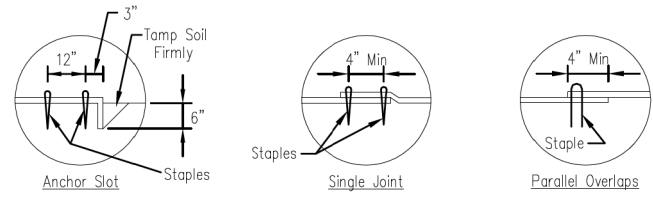
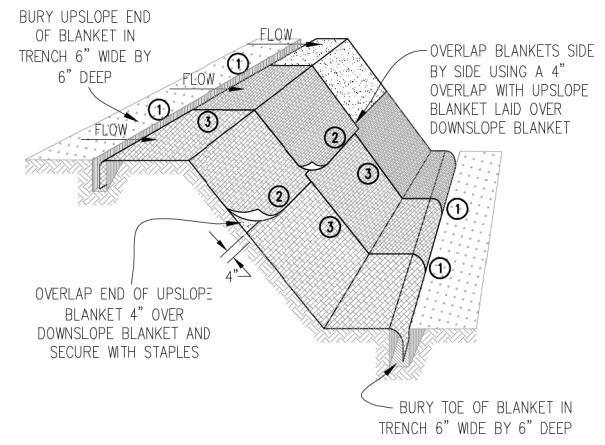
- NOTES:
- 1. DRAWINGS ARE NOT TO SCALE.
 - 2. ENDS OF WATTLES OR ROLLED EXCELSIOR SHALL BE TURNED AT LEAST 6" UPSLOPE.
 - 3. RECOMMENDED STAKES ARE 1 1/8" WIDE x 1 1/8" THICK x 30" LONG.
 - 4. STAKES SHALL NOT EXTEND ABOVE THE STRAW WATTLE MORE THAN 2".
 - 5. SPACING: THE TOE OF THE UPSTREAM DITCH CHECK SHALL CREATE A HORIZONTAL LINE WITH THE TOP OF THE DOWNSTREAM DITCH CHECK.

REFERENCE Project	DESIGNED _____	DATE _____		STANDARD DWG. NO. IUM-514
Designed	_____	_____		SHEET 1 OF 1
Checked	_____	_____		DATE 08-2-2019
Approved	_____	_____		

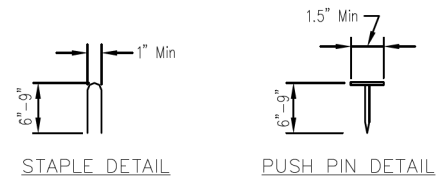
INLET PROTECTION - PAVED AREAS
DROP-IN PROTECTION



REFERENCE Project	DESIGNED _____	DATE _____		STANDARD DWG. NO. IUM-561D
Designed	_____	_____		SHEET 1 OF 1
Checked	_____	_____		DATE 01-11-11
Approved	_____	_____		



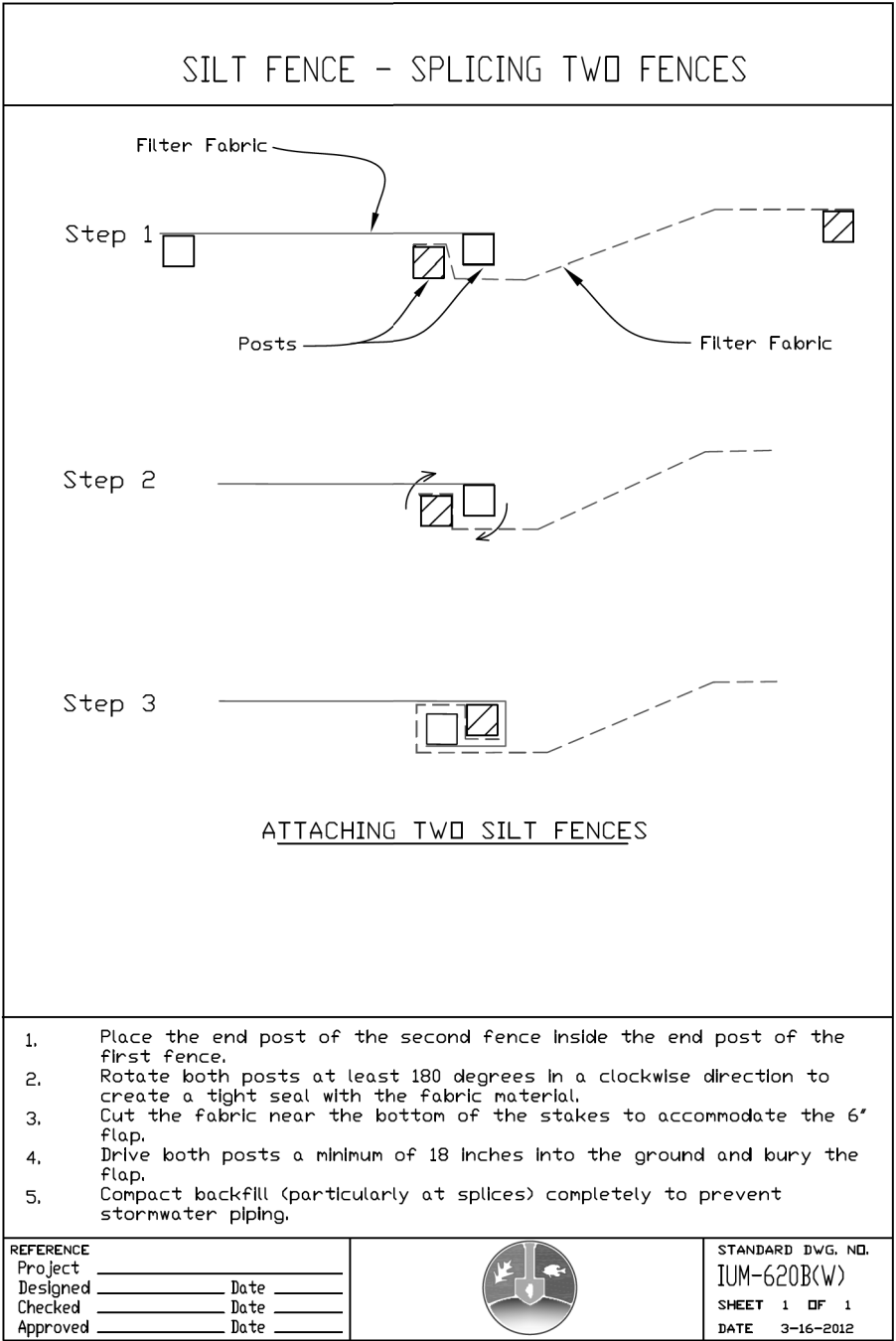
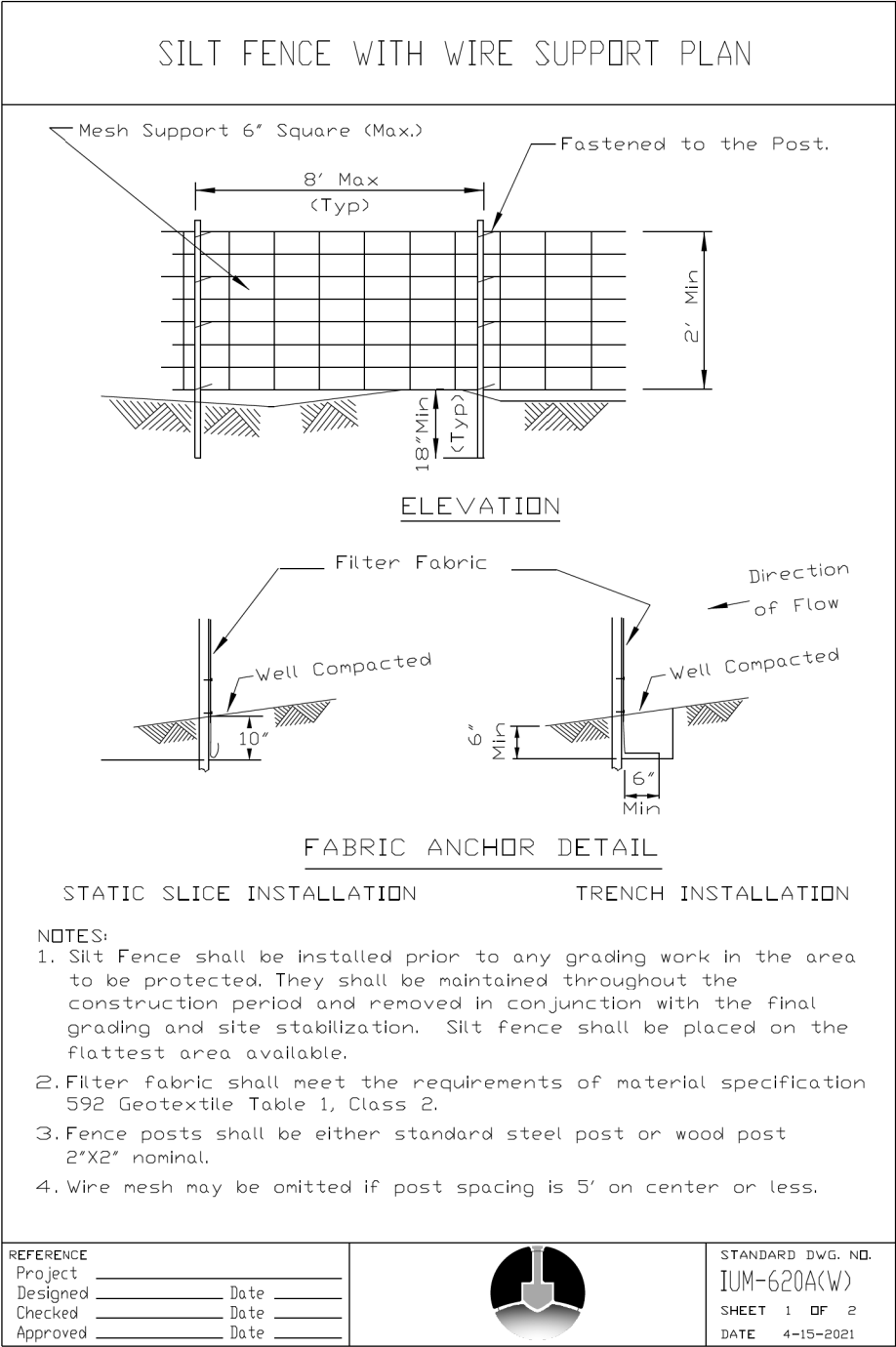
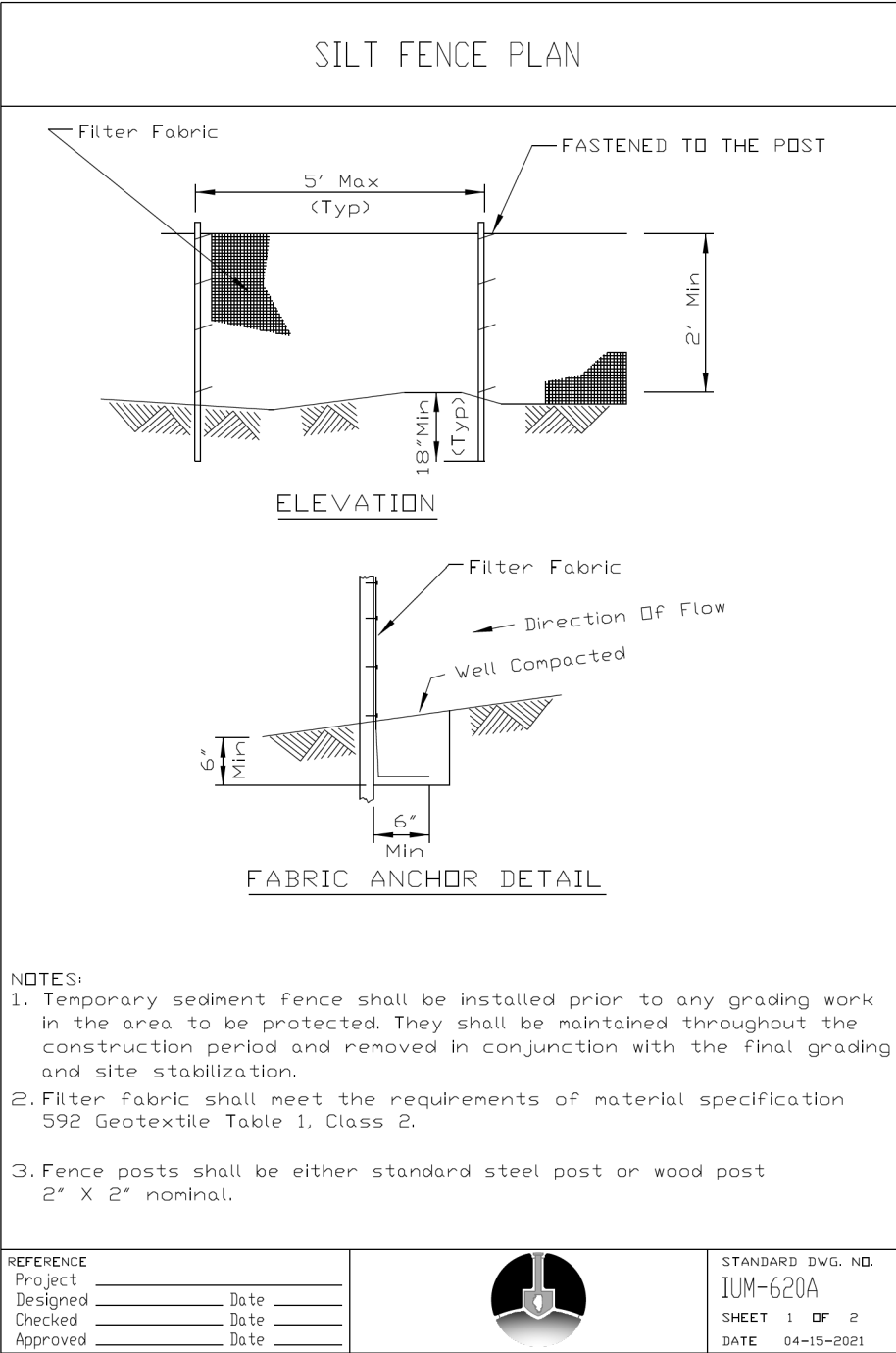
DETAIL 1 DETAIL 2 DETAIL 3



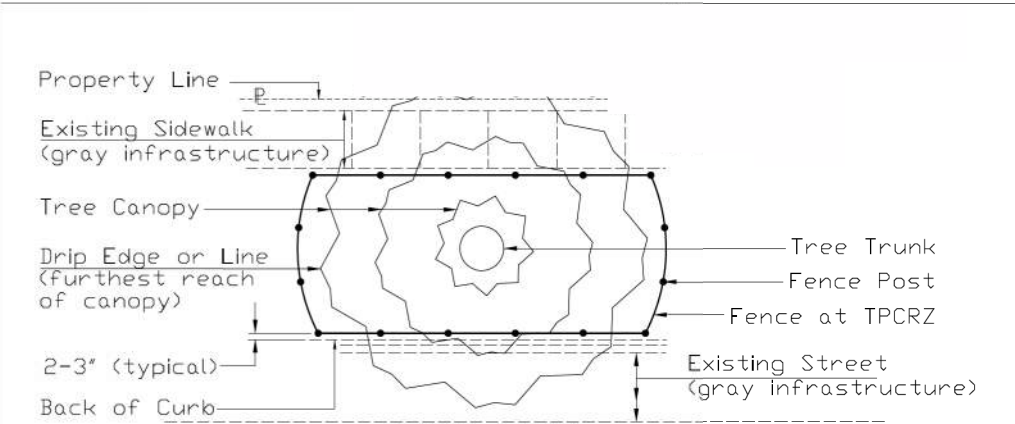
- NOTES:
- 1. Staples shall be placed in a diamond pattern at 2 per s.y. for stitched blankets. Non-stitched shall use 4 staples per s.y. of material. This equates to 200 staples with stitched blanket and 400 staples with non-stitched blanket per 100 s.y. of material.
 - 2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
 - 3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
 - 4. All anchor slots shall be stapled at approximately 12" intervals.

	EROSION CONTROL BLANKET INSTALLATION DETAILS		Designed _____	Date _____
			Drawn R. JOHNSON	11/08
			Checked _____	
			Approved _____	

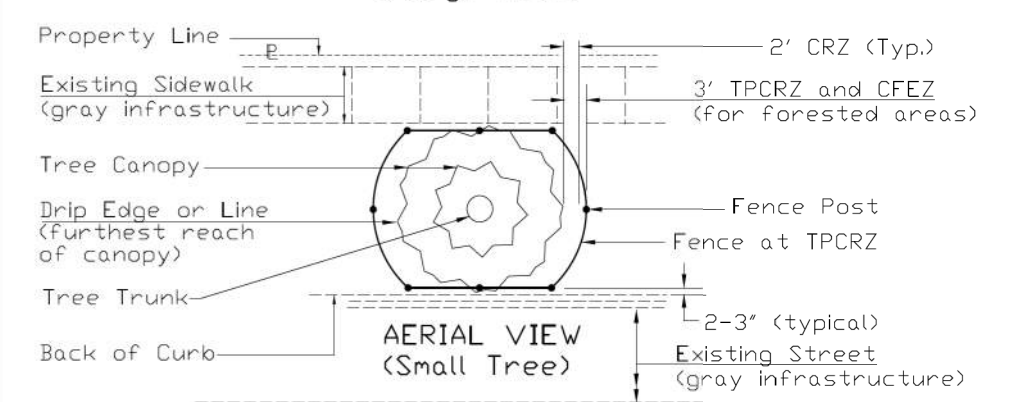
MODEL Detail Sheet 3
FILE NAME: p:\Documents\paw-bentley.com\technician\paw-01\Documents\Landscaping\2020\01-SHT-HWL-ESC-DETAILS.dgn



TREE PROTECTION – FENCING
(Highly Urbanized Areas)



AERIAL VIEW
(Large Tree)



Back of Curb ——— AERIAL VIEW (Small Tree) ——— 2-3" (typical) Existing Street

Notes:

1. Call J.U.L.I.E. (800-892-0123) for the location of existing utilities 48 hours prior to commencement of work.
2. The CRZ is located 2' from the farthest outreaching branch (drip edge) or the distance as determined by the ISA trunk diameter method or whichever is greater.
3. On sides of the tree not constricted by gray infrastructure, the fence shall be located 1 foot from the Critical Root Zone (CRZ) of the protected tree, thus creating the Tree Protection Critical Root Zone (TPCRZ). The Critical Forest Edge Zone (CFEZ), for forested areas, shall also be located at the TPCRZ.

REFERENCE		
Project		
Designed	Date	
Checked	Date	
Approved	Date	



STANDARD DWG. NO.
IUM-690-B
SHEET 1 OF 2
DATE 09-14-2017

TREE PROTECTION - FENCING
(Highly Urbanized Areas)

Notes: (cont.)

4. On sides of the tree where there is gray infrastructure conflict the fence shall be 3 to 4 inches from the structure. Where the structure is a sidewalk and the CRZ goes beyond the sidewalk to the adjoining greenspace, the Tree Protection Fencing shall continue to the CRZ without impeding the flow of the traffic of the sidewalk.
5. Fence Posts shall be either 6' steel posts @ 1.33Lbs./Ft. or 2" x 2" nominal wood posts.
6. A chain link fence with Construction Specification Chain Link Fence IUM 91 or better (as approved by the local Forester per local ordinances singularly or in tandem with the project Engineer) shall be used. Fencing shall be a minimum height of 4'. Metal posts shall be placed 6' on center (OC) and fencing is securely anchored to the ground.
7. Outside the TPCRZ, erosion and sediment control measures shall be installed to prevent sediment reaching the TPCRZ. These measures shall extend out from the fence 10' and shall be continuous around the perimeter of the fence. These measures include, but are not limited to vegetative filter strip, rolled excelsior blankets and woodchip mulch with a 3" to 5" depth. Other methods may be used if approved by the Professional Forester, Certified Arborist or Horticulturalist. Installation shall cause no disturbance to soils.

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

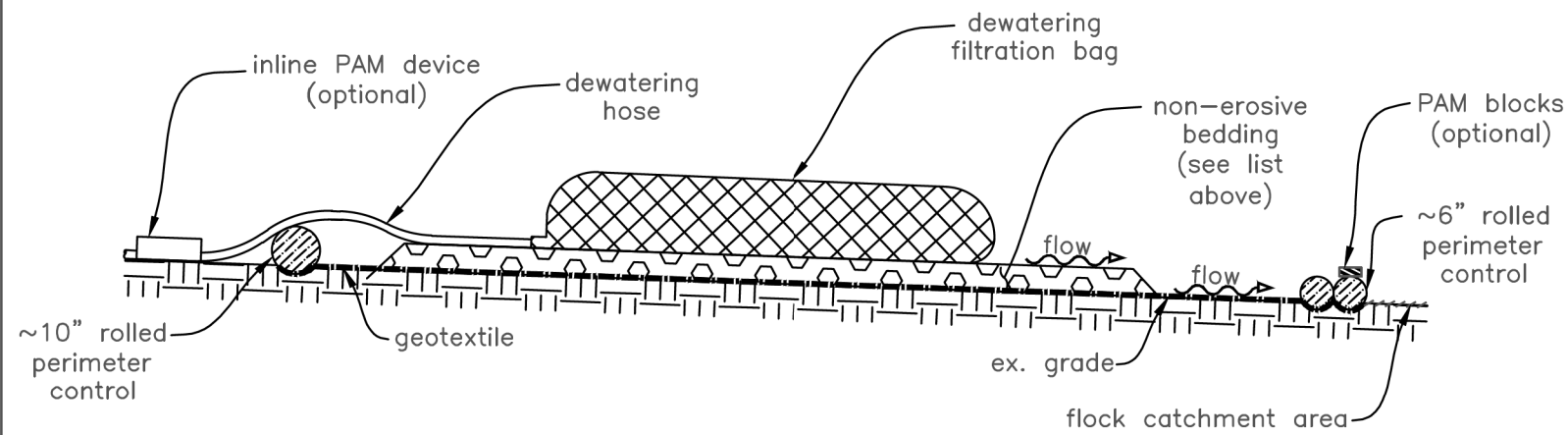


STANDARD DWG. NO.
IUM-690-B
SHEET 2 OF 2
DATE 09-14-2017

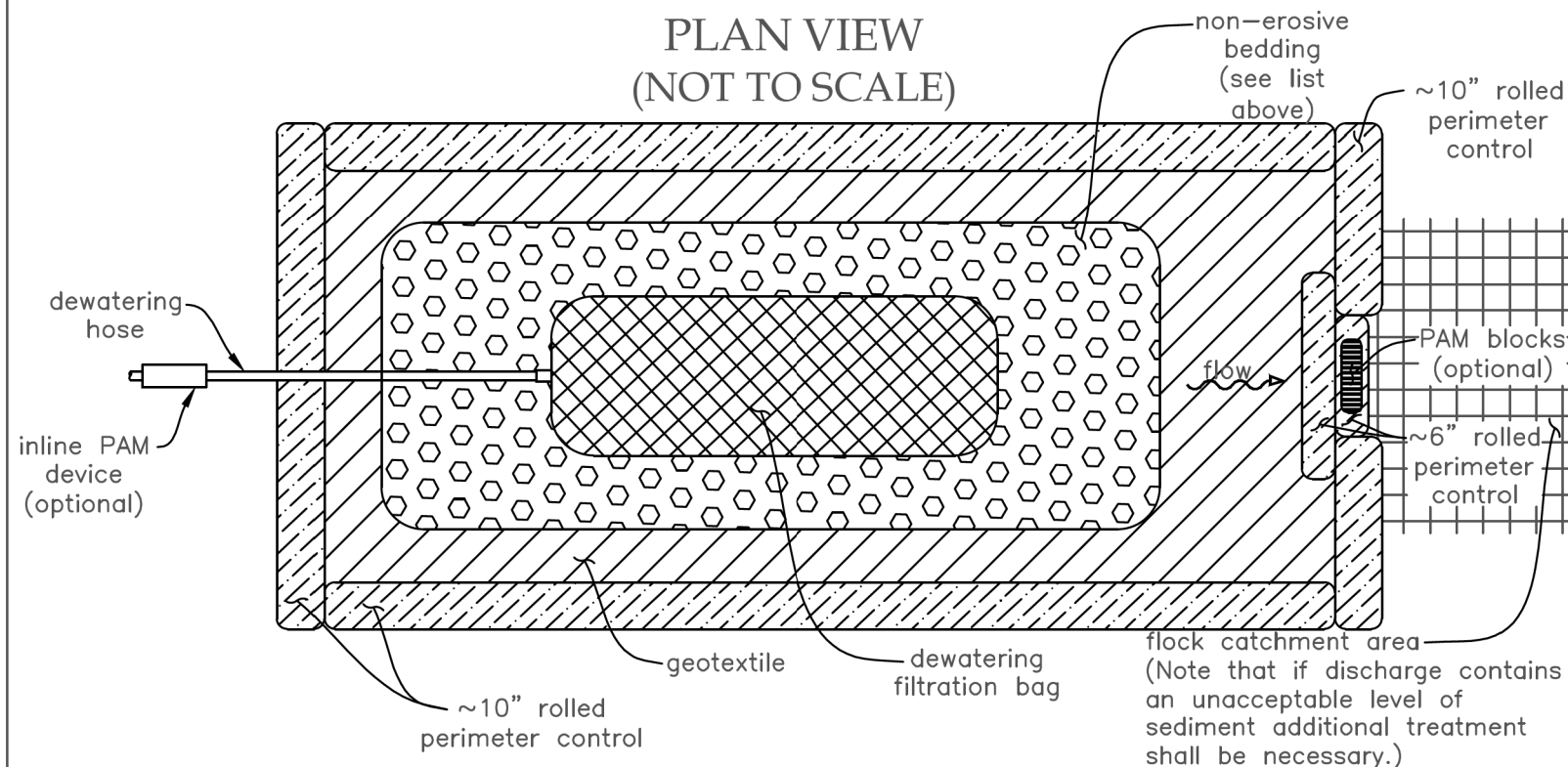
SITE DEWATERING DETAIL

CROSS SECTION VIEW
(NOT TO SCALE)

porous non-erosive
bedding examples:
Washed 3" stone (CA-1),
pallets, strawbales, etc.



PLAN VIEW
(NOT TO SCALE)



NOTES:

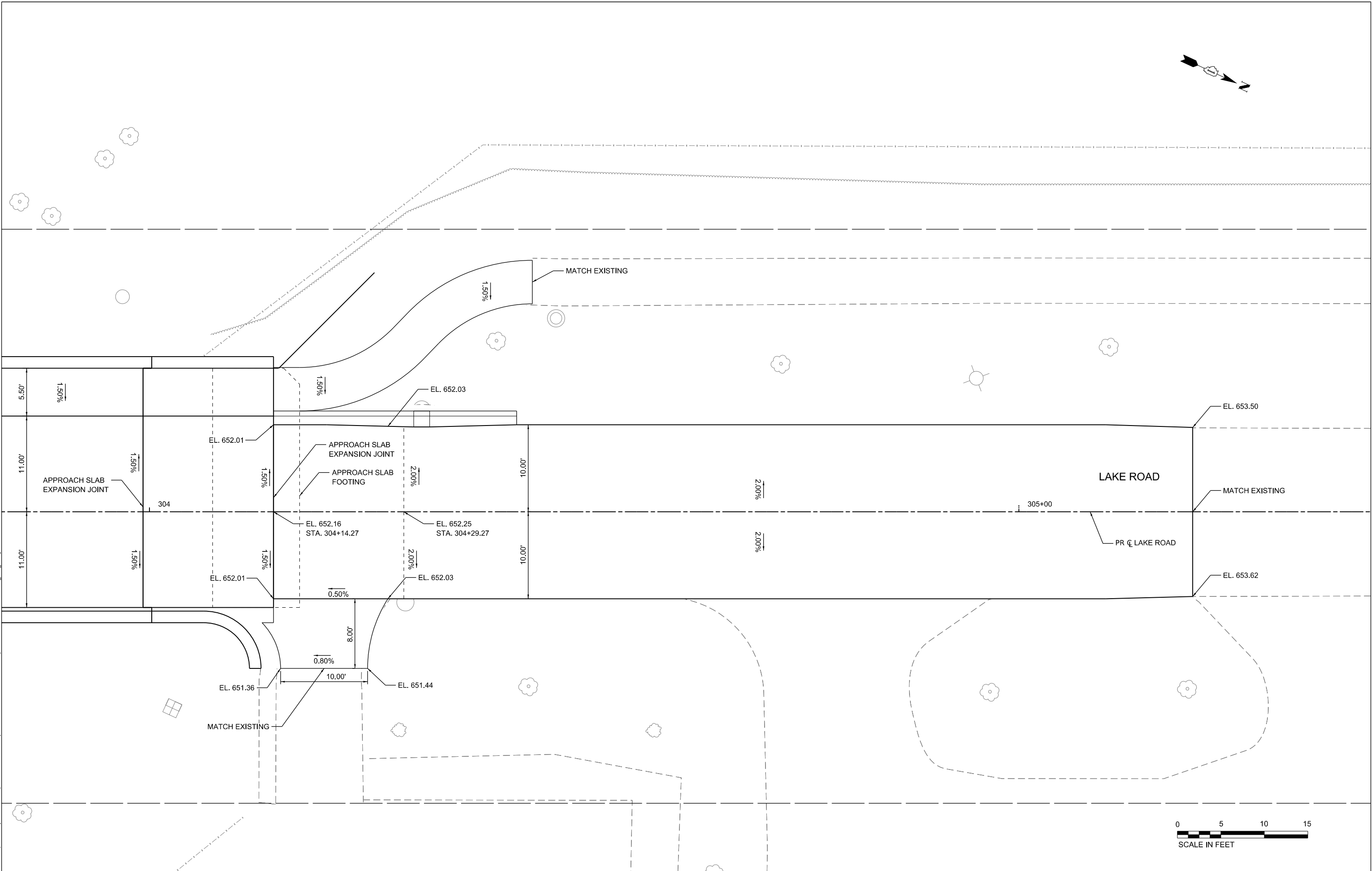
- This detail provides general guidance on dewatering setup options. Site and project specific details, including manufacturer recommendations must be considered. Final dewatering design requires approval by the Enforcement Officer. The Enforcement Officer, or approved representative, must be present at the commencement of dewatering activities.
- Rolled perimeter control must be entrenched and staked in unless the product is self-bedding. [compost sock, fiber rolls, or similar]
- Dewatering bag must be monitored frequently during use, this includes checking on flow and fill capacity.
- Sediment shall be removed from the catchment area and the system restored to its original design when sediment has accumulated to cover half of the catchment area.
- Adjoining properties and discharge locations shall be protected from erosion and sedimentation.
- Ensure proper overlap where rolled perimeter control ends meet.
- Elevate bag on porous non-erosive bedding to properly drain (maximize surface area).

REFERENCES:

- Dewatering:
<https://illinoisurbanmanual.org/wp-content/uploads/2019/01/813-Dewatering-9-25-2018.pdf>
- PAM (polyacrylamide):
<https://illinoisurbanmanual.org/wp-content/uploads/2018/08/PAM-for-Turbidity-Reduction-and-Sediment-Control-1.pdf>
- SESC Notes:
<https://www.lakecountyil.gov/DocumentCenter/View/3415/SESC-Construction-Notes-2013-PDF>

Date: 10/2022

MODEL: Default
FILE NAME: p:\proj\lochner-cw-bentley.com\lochner-gp-w-01\Documents\projects\000020201&0 CAD\Roadway\20201-SHT-HVIL-RD-DET\AIL_ADA_02.dgn





225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)

USER NAME	Personal	DESIGNED	- JN	REVISED	-
DRAWN	- JN	REVISIONS			
PLOT SCALE	-	CHECKED	- DS	REVISED	-
PLOT DATE	6/5/2025	DATE	6/9/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS
LAKE ROAD

SCALE: 1"=5'

SHEET 2 OF 2 SHEETS

STA. 303+83 TO STA. 305+20

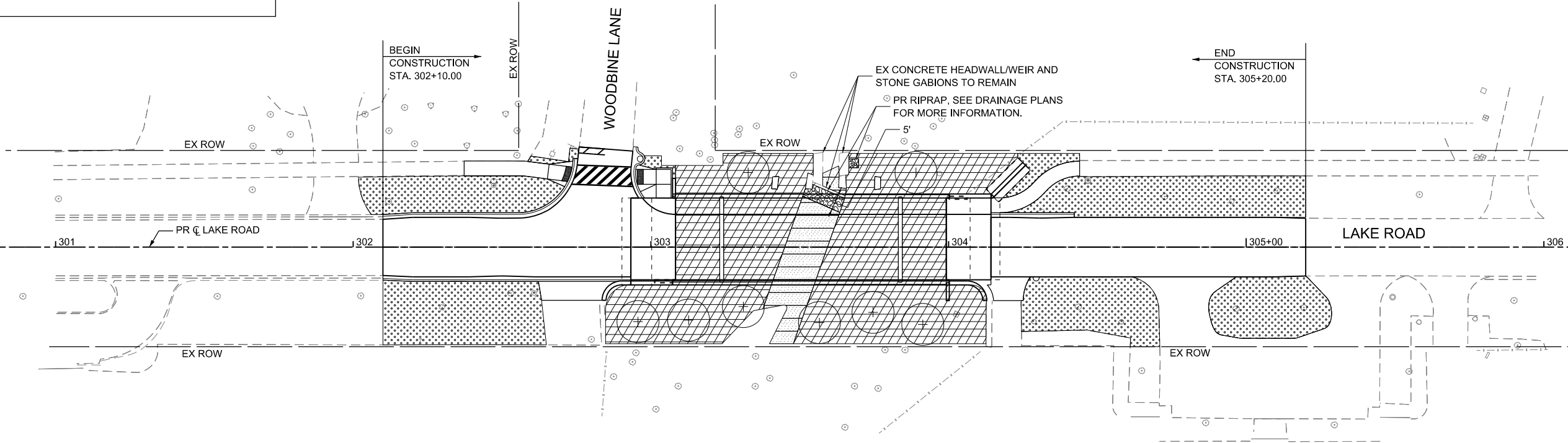
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	31
CONTRACT NO. 61K52				
ILLINOIS		FED. AID PROJECT		

LANDSCAPING LEGEND

- PROPOSED TREE - FINAL SPECIES AND LOCATION TO BE DETERMINED BY CITY FORESTER
- SODDING, SALT TOLERANT (25200110)
- SEEDING, CLASS 4 (MODIFIED) (X2501800) WITH WILDLIFE FRIENDLY EROSION CONTROL BLANKET (25100645)
- SEEDING, CLASS 4 (MODIFIED) (X2501800) WITH TURF REINFORCEMENT MAT (25100900)

NOTES:

1. TURF REINFORCEMENT MAT TO BE USED ON SLOPES STEEPER THAN 3H:1V EROSION CONTROL BLANKET (SPECIAL) MAY BE SUBSTITUTED AT THE DIRECTION OF THE ENGINEER.
2. 50 SQ YD OF SODDING, SALT TOLERANT (25200110) PROVIDED FOR UNFORSEEN RESTORATION.



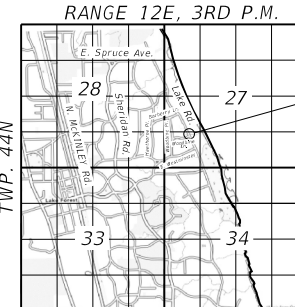
USER NAME	Personal	DESIGNED	- GG	REVISED	-
		DRAWN	- GG	REVISED	-
PLOT SCALE	= 39.999" / in.	CHECKED	- AM	REVISED	-
PLOT DATE	= 6/24/2025	DATE	- 6/9/2025	REVISED	-

LANDSCAPING PLAN LAKE WOODBINE BRIDGE			
SCALE: 1"=20'	SHEET 1 OF 1 SHEETS	STA. 302+10	TO STA. 305+20

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	32
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

No salvage.

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_1) = 0.033g
Design Spectral Acceleration at 0.2 sec. (S_s) = 0.080g
Soil Site Class = C



LOCATION SKETCH

GENERAL PLAN & ELEVATION
LAKE ROAD OVER UNNAMED RAVINE
LAKE COUNTY
SECTION NO. 12-00094-00-BR
STATION 303+53.78
STRUCTURE NO. 049-6851

1. Reinforcement bars designated (E) shall be epoxy coated.
2. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of shoring, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
3. A film forming Concrete Sealer shall be applied to the designated areas of the exposed surfaces of abutments, wingwalls, spandrel walls, precast arch and its closure pour.
4. Backfill shall be placed behind the abutment after the superstructure has been poured and shoring removed. See Article 502.10 of the Standard Specifications.
5. The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
6. Plan dimensions and details relative to existing structure are not available. 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.
7. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of shoring, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
8. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
9. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
10. Cast-in-place concrete construction shall conform to Article 503 of the Standard Specifications except the concrete design compressive strengths for various structural elements shall meet the requirements shown on Sheet 33.
11. Cost of cast-in-place concrete used for bridge abutments, drilled shaft caps, spandrel walls, wingwalls, barrier walls and approach slab sleeper slabs is included with CONCRETE STRUCTURES. Cost of cast-in-place concrete used for drilled shafts is included with DRILLED SHAFT IN SOIL. Cost of cast-in-place concrete used for approach slabs is included with CONCRETE SUPERSTRUCTURE (APPROACH SLAB). Cost of cast-in-place concrete used for concrete deck slabs, sidewalks, railing plinth and precast concrete arch center closure pours is included with CONCRETE SUPERSTRUCTURE.
12. The work of grout rubbed finish must conform to project specification requirements of CONCRETE FINISH and shall be applied to all exposed concrete surface with the EXCEPTION of following areas:
 - Vehicle riding surface between the sidewalk curbs on top of deck slab
 - Underside of the deck slabThe estimated total area of grout rubbed finish is 6,910 Sq. Ft. and its cost is included with CONCRETE FINISH.
13. Apply Integral Color Admixture, ASTM C979, to CONCRETE STRUCTURE, CONCRETE SUPERSTRUCTURE, CONCRETE SUPERSTRUCTURE (APPROACH SLAB), PRECAST CONCRETE ARCH to match existing concrete color per project specification requirements of CONCRETE FINISH.

SHEET NO.	TITLE
33	GENERAL PLAN & ELEVATION
34	GENERAL NOTES, INDEX OF SHEETS & BILL OF MATERIAL
35	BRIDGE CROSS SECTION
36	DEMOLITION PLAN & EXISTING FOUNDATION REMOVAL PLAN
37	SUGGESTED ERECTION SEQUENCE 1
38	SUGGESTED ERECTION SEQUENCE 2
39	FOUNDATION LAYOUT
40	HP PILE DETAILS
41	DRILLED SHAFT RECORD
42	PILE RECORD
43	PIER FOUNDATION, SECTIONS & DETAILS
44	DRILLED SHAFT DETAILS
45	PIER DETAILS
46	ABUTMENT PLAN AND ELEVATION
47	ABUTMENT AND WINGWALL DETAILS
48	PRECAST ARCH RIB DETAILS
49	ARCH PLAN & ELEVATION - 1
50	ARCH PLAN & ELEVATION - 2
51	ARCH CROWN CLOSURE POUR DETAILS
52	SPANDREL WALL DETAILS
53	TOP OF DECK ELEVATION PLAN & TABLES 1
54	TOP OF DECK ELEVATION PLAN & TABLES 2
55	TOP OF DECK ELEVATION PLAN & TABLES 3
56	TOP OF SOUTH APPROACH SLAB PLAN & TABLES
57	TOP OF NORTH APPROACH SLAB PLAN & TABLES
58	DECK PLAN & CROSS SECTION - 1
59	DECK PLAN & CROSS SECTION - 2
60	DECK PLAN & CROSS SECTION - 3
61	SUPERSTRUCTURE DETAILS - 1
62	SUPERSTRUCTURE DETAILS - 2
63	SUPERSTRUCTURE DETAILS - 3
64	APPROACH SLAB PLAN, SECTION & DETAILS 1
65	APPROACH SLAB PLAN, SECTION & DETAILS 2
66	APPROACH SLAB SIDEWALK DETAILS
67	BARRIER WALL DETAILS
68	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
69	SOIL BORINGS - 1
70	SOIL BORINGS - 2
71	SOIL BORINGS - 3

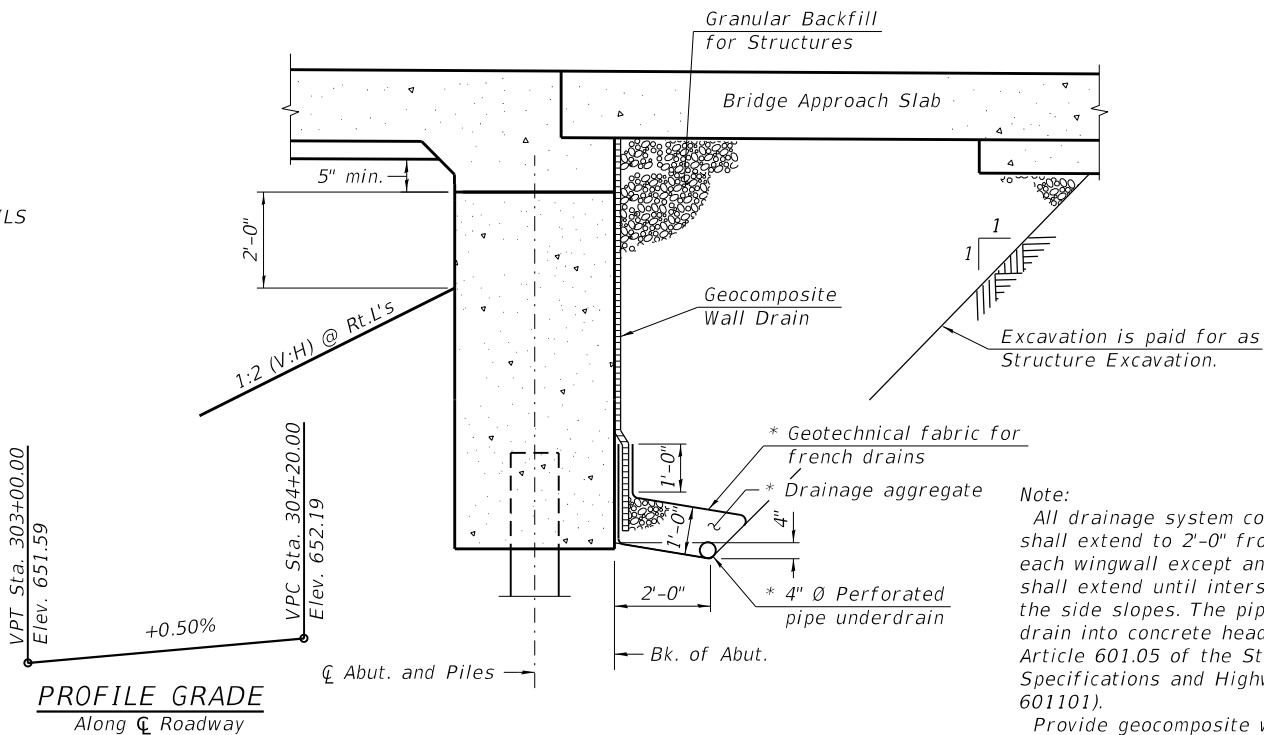
14. The Contractor is responsible to implement the following noise and vibration control measures in order to reduce disturbance and mitigate the risk of property damage when driving piles. The mitigation plan must be submitted to the City for approval prior to pile driving. Their costs are included with DRIVING PILES.

- Use low-noise and low-vibration pile driving equipment, including hydraulic hammers or vibratory hammers
- Apply vibration isolation or damping devices, including but not limited to rubber pads or springs
- Communicating with stakeholders to inform them about the pile driving schedule, expected noise and vibration levels, and mitigation measures taken by the Contractor prior to pile driving

The noise and vibration levels during pile driving must be monitored with instruments, including but not limited to sound level meters or accelerometers. Its cost is included with CONSTRUCTION VIBRATION MONITORING.

15. The Contractor must take extra caution to not damage newly installed ComEd aerial lines located within the existing right of way. The Contractor must coordinate crane operations with ComEd prior to construction and ensure adequate clearance which satisfies ComEd requirements during construction. Damage as a result of the work activity of the Contractor must be corrected by the Contractor at his own expense.

Item	Unit	Super	Sub		Total
			Piers	Abuts.	
Removal Of Existing Structures	Each	1	-	-	1
Structure Excavation	Cu. Yd.	-	-	135	135
Concrete Structures	Cu. Yd.	17.6	87.6	48.1	153.3
Concrete Superstructure	Cu. Yd.	198.7	-	-	198.7
Bridge Deck Grooving	Sq. Yd.	273	-	-	273
Protective Coat	Sq. Yd.	549	-	-	549
Concrete Superstructure (Approach Slab)	Cu. Yd.	40.4	-	-	40.4
Reinforcement Bars, Epoxy Coated	Pound	88,590	87,540	10,720	186,850
Mechanical Splicers	Each	-	536	-	536
Furnishing Steel Piles HP14X73	Foot	-	480	-	480
Driving Piles	Foot	-	480	-	480
Test Pile Steel HP14X73	Each	-	2	-	2
Pile Shoes	Each	-	10	-	10
Name Plates	Each	-	1	-	1
Permanent Casing	Foot	-	320	-	320
Drilled Shaft In Soil	Cu. Yd.	-	171.1	-	171.1
Granular Backfill For Structures	Cu. Yd.	-	-	134	134
Concrete Sealer	Sq. Ft.	338	5,096	-	5,434
Geocomposite Wall Drain	Sq. Yd.	-	58	-	58
Pipe Underdrains For Structures 4"	Foot	-	-	76	76
Construction Vibration Monitoring	L Sum	-	-	1	1
Thermal Integrity Profile Testing	Each	-	8	-	8
Thermal Integrity Profile Data Collection	Foot	-	480	-	480
Concrete Finish	L Sum	1	-	-	1
Furnishing And Erecting Precast Concrete Arch	L Sum	1	-	-	1

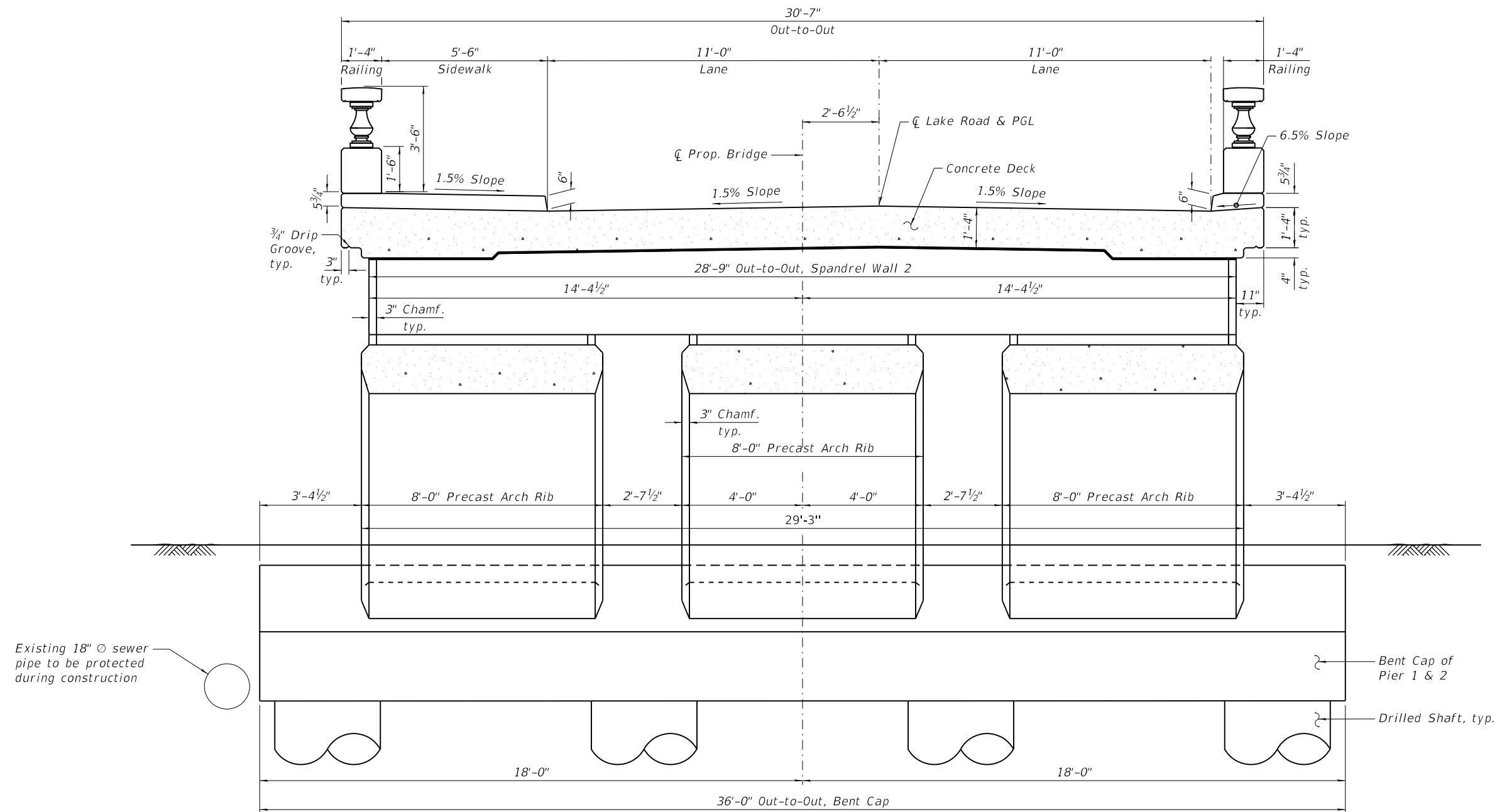


* Included in the cost of Pipe Underdrains for Structures.
(See Special Provisions)

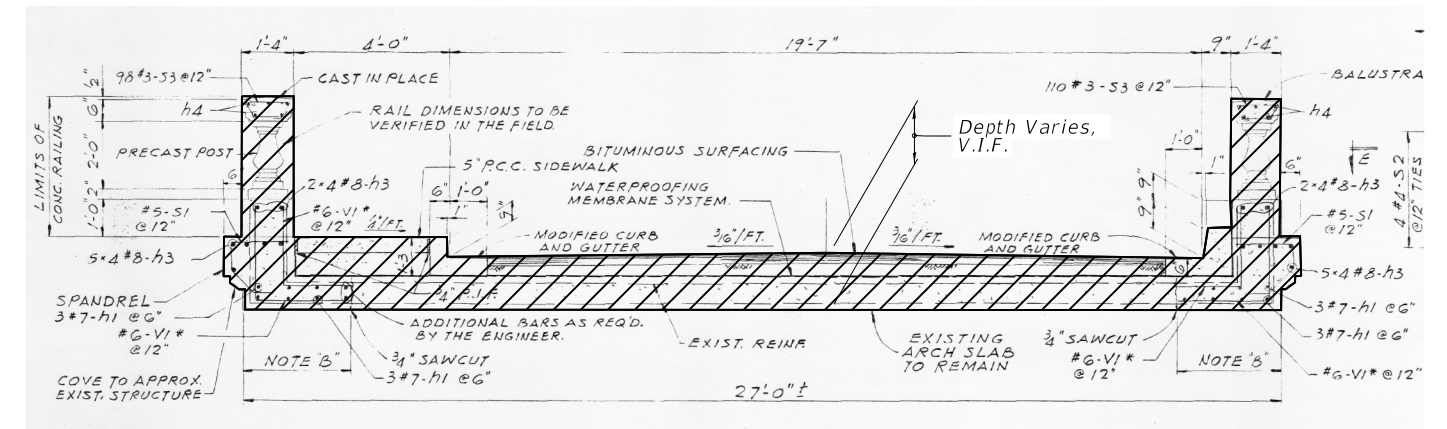
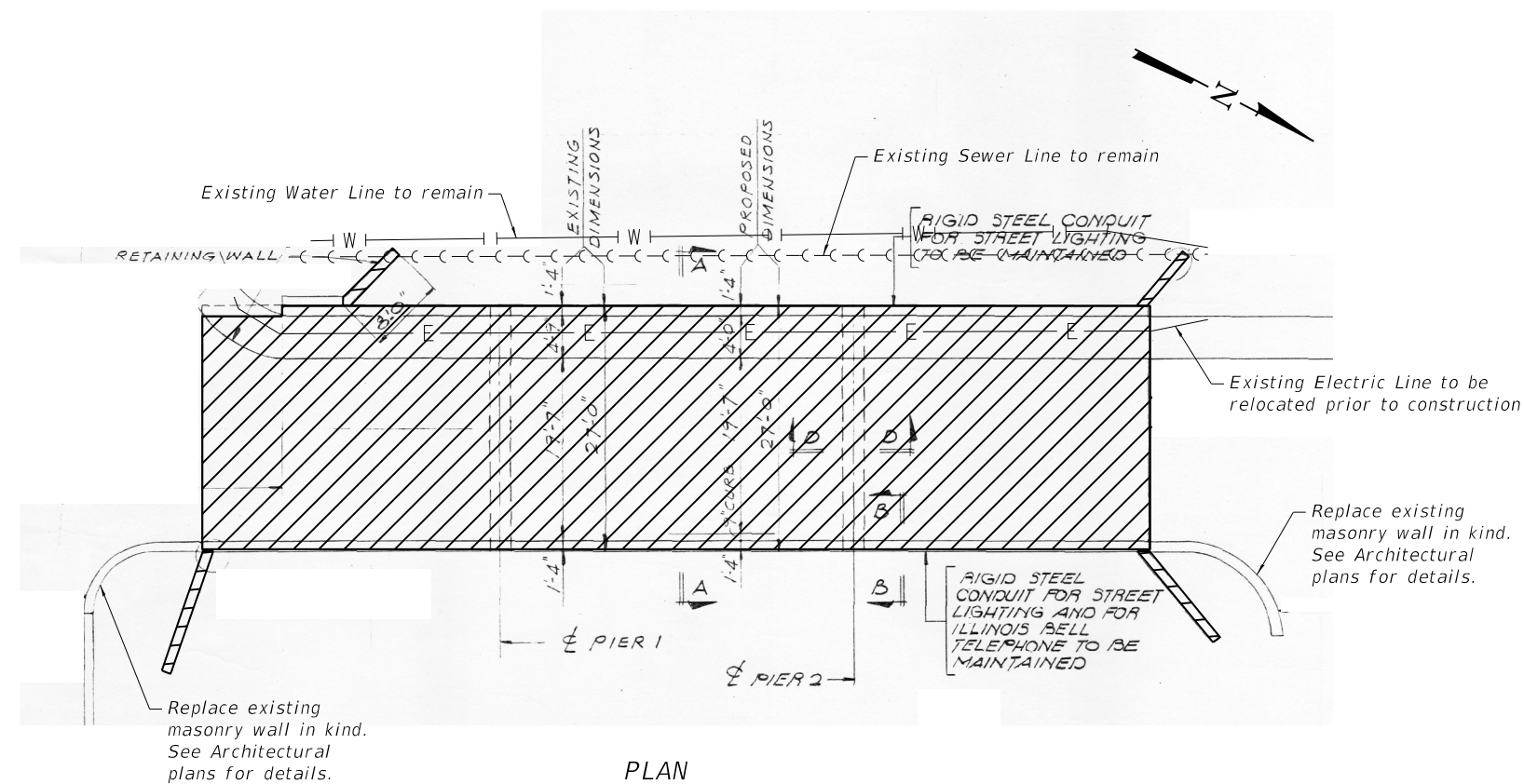
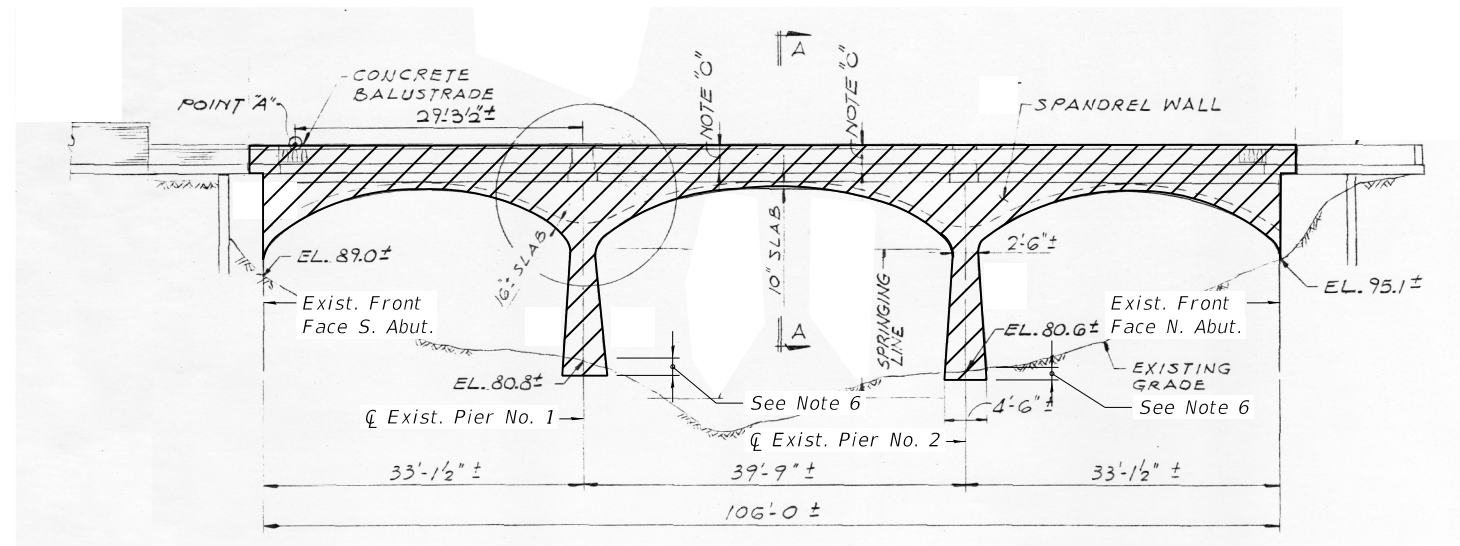
MODEL: Default
FILE NAME: nw\\johnner-nw-bent\\ev.com\\johnner-nw-01\\Documents\\Projects\\000020201\\6_0_CAD\\Structures\\Sheet\\D20201-02_SHT-HWI-STB-GEN NOTES INDEX BOM.dgn

USER NAME = Personal	DESIGNED = MM	REVISED =
	DRAWN = MM	REVISED =
PLOT SCALE = 0:2,000 "+" / in.	CHECKED = RH	REVISED =
PLOT DATE = 6/5/2025	DATE = 6/9/2025	REVISED =

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	34
		CONTRACT NO. 61K52		
ILLINOIS		FED. AID PROJECT		



BRIDGE CROSS SECTION - SECTION A-A
(Looking North, See Sheet 33 for locations)



SECTION A-A

NOTES:

1. The existing bridge can be removed in stages depending on the Contractor's proposed sequencing of drilled shaft and steel H-pile construction. Coordinate existing abutment and pier removal with proposed construction.
2. See Specifications for details of the pay item "Removal of Existing Structures".
3. Partial removal of existing retaining/wing walls indicated on this Sheet are included in the pay item "Removal of Existing Structures".
4. Removal of the existing bridge balustrade, sidewalk, curbs, concrete spandrel walls, fill material within, concrete arch slabs and pavement are items included in the pay item "Removal of Existing Structures".
5. Partial removal of existing concrete abutments below the proposed roadway and partial removal of the piers below the proposed grade is included in the pay item "Removal of Existing Structures". Existing abutments, retaining/wing walls and piers shall be removed to 1' below the lowest elevation of the existing grade, proposed grade or bottom of the proposed concrete elements.
6. Design plans of the existing supporting foundations as to size, depth, materials and other possible elements is unknown.
7. Construction information of existing masonry walls at the northeast and southeast corners of the existing bridge to private driveways are unknown.
8. Dimensions and elevations from 1978 rehabilitation details depicted on this Sheet have not been field verified and for information only. Other information called out may not be current.
9. Structural Assessment Reports (SAR) for removal of existing structures, or portions thereof, shall demonstrate that the Contractor's proposed means and methods to accomplish the work do not compromise the structural adequacy of the bridge, or portions thereof that are to remain stable, at anytime during the work activities being performed. Each phase of the operation shall be accounted for, as well as the existing condition of the structure.
10. Contractor is responsible for the means and methods for the protection of adjacent properties near the construction during the removal of existing bridge. Cost of temporary soil retention system or other shoring system will not be paid for separately and they will be included with the pay item "Removal of Existing Structures" if required by the Contractor.
11. If additional concrete removal is required to facilitate the construction access to bottom of ravine per Contractor's means and methods, its cost is included with pay item "Removal of Existing Structures".
12. The cost of additional partial removal of existing concrete abutments required to allow the installation of granular backfill for structures, bridge approach slab and approach footing is included with pay item "Removal of Existing Structures".

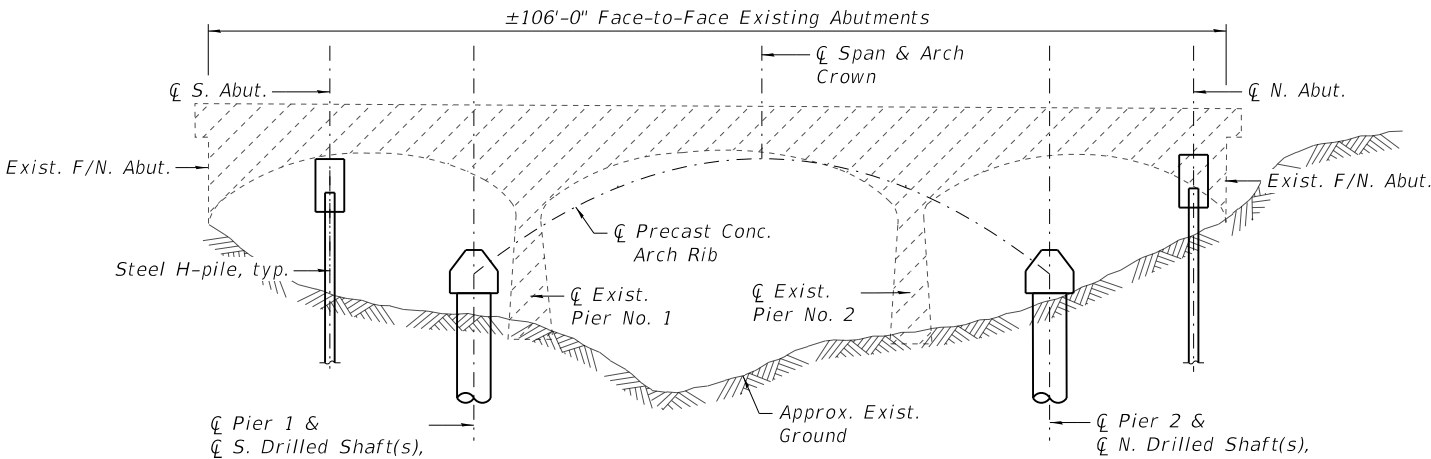
LEGEND:

 - Removal limits of existing structure

VIF - Verify in Field

PHASE 1 CONSTRUCTION ACTIVITIES

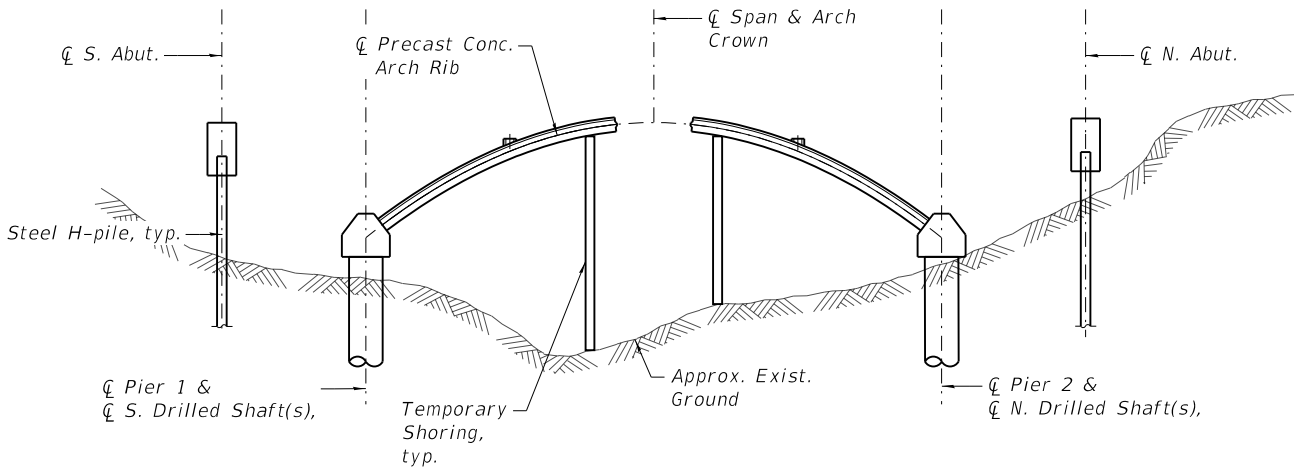
- 1. Verify location of existing foundations and utilities and check for conflicts with proposed drilled shafts and steel H-pile foundations.
- 2. Install new bent cap beams and abutment pile cap beams.
- 3. Contractor to coordinate his/her demolition sequence of the existing structure with foundation installation. See Sheet 36.



ELEVATION - PHASE 1
(Looking West)

PHASE 2 CONSTRUCTION ACTIVITIES

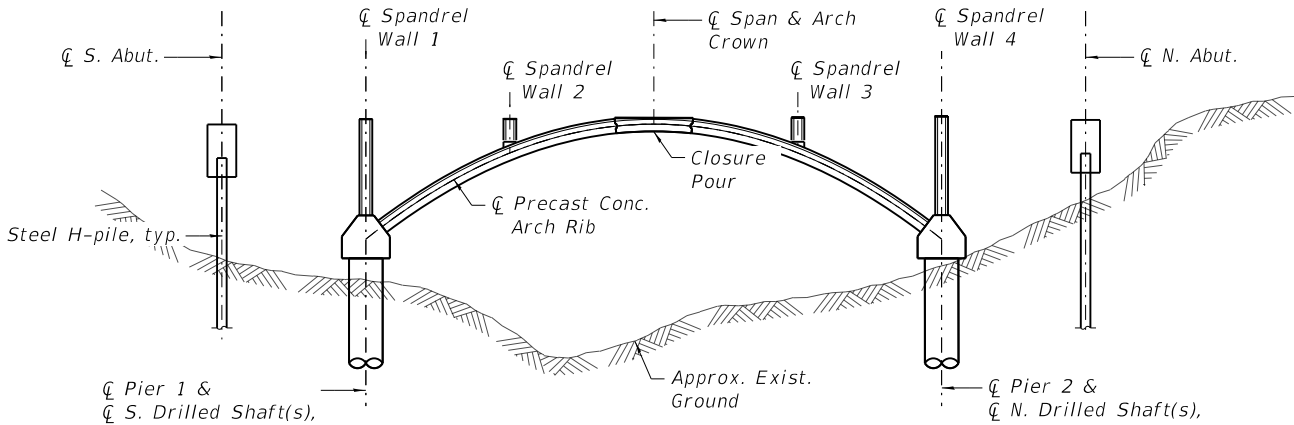
- 1. Complete removal of existing bridge structure.
- 2. Install backfill between existing and proposed abutments, including waterproofing and underdrains.
- 3. Install temporary shoring between proposed bents. The Contractor is responsible for the structure and foundation design of temporary shoring. Design and calculations must be prepared, signed and sealed by a Structure Engineer licensed in the State of Illinois and submitted to the City for approval prior to precast arch rib erection.
- 4. Erect precast arch ribs. Estimated weight of precast arch rib piece is 48 kips.



ELEVATION - PHASE 2
(Looking West)

PHASE 3 CONSTRUCTION ACTIVITIES

- 1. Install shoring and temporary deck to form keystone beam.
- 2. Cast in place Arch Crown Beam and cure for 7 days.
- 3. Grout reinforcement splice coupler sleeves between bottom end of precast arch segments and bent grade beams.
- 4. Relieve shoring of arch segment dead loads.
- 5. Form and pour spandrel walls, symmetrically about CL of Span. For example, 1 and 4 or 2 and 3.



ELEVATION - PHASE 3
(Looking West)

MODEL: Default
FILE: W:\E\1_P\2\Lochner-pw\01\Documents\Projects\00002020\16.0 CAD\Structures\Sheet\020201-05-SHT-HWL-STR-SEQ1.dgn

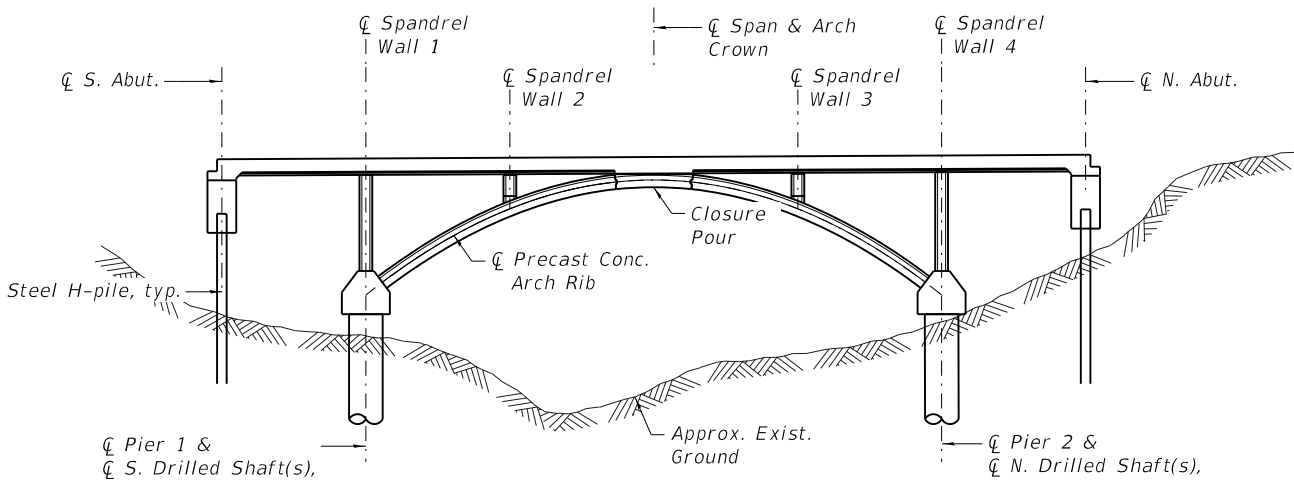
USER NAME	Personal	DESIGNED	-	MM	REVISED	-
		DRAWN	-	MM	REVISED	-
PLOT SCALE	≈ 20,000 " / in.	CHECKED	-	RH	REVISED	-
PLOT DATE	≈ 6/5/2025	DATE	-	6/9/2025	REVISED	-

SUGGESTED ERECTION SEQUENCE 1 STRUCTURE NO. 049-6851			
SHEET 5	OF 39 SHEETS	STA.	TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	37
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

PHASE 4 CONSTRUCTION ACTIVITIES

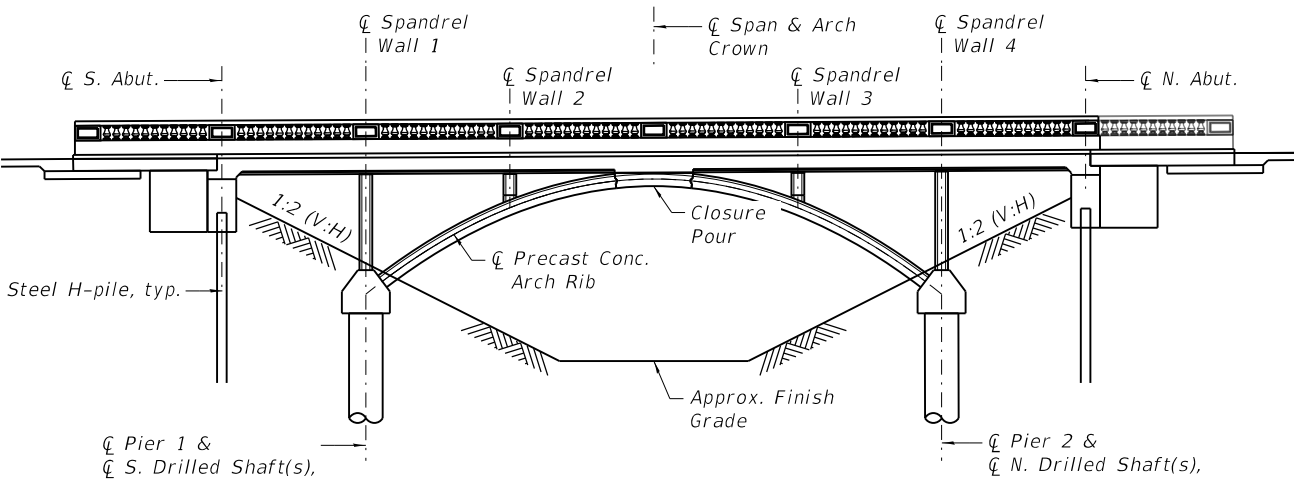
- 1. Install temporary deck and cast deck slab.
- 2. Form and pour sidewalk and curb.
- 3. Strip deck slab after 7 calendar day curing period.
- 4. Form and pour approach slabs (not shown).



ELEVATION - PHASE 4
(Looking West)

PHASE 5 CONSTRUCTION ACTIVITIES

- 1. Install precast balustrade.
- 2. Complete removal of any shoring or temporary sheeting.
- 3. Complete backfill around bent grade beams.
- 4. Complete grading and landscaping restoration of ravine side slopes.



ELEVATION - PHASE 5
(Looking West)

MODEL Default
FILE Name: p:\2\lochner-pw\lochner-pw-01\Documents\Projects\000020201\6.0 CAD\Structures\Sheet\020201-06-SHT-HWL-STR-SEQ2.dgn

USER NAME	Personal	DESIGNED	-	MM	REVISED	-
DRAWN	-	MM	REVISED	-		
PLOT SCALE	= 20,000 ' / in.	CHECKED	-	RH	REVISED	-
PLOT DATE	= 6/5/2025	DATE	-	6/9/2025	REVISED	-

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	38
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

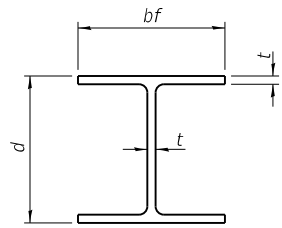


LEGEND:

- - Indicates new Drilled Shaft
 I - Indicates new Steel HP Pile
 □ - Indicates existing foundation (see Note 10)
 V.I.F. - Verify in Field

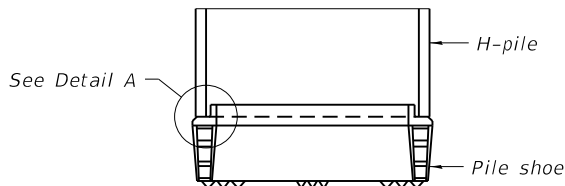
FOUNDATION LAYOUT PLAN

 225 WEST WASHINGTON STREET 12TH FLOOR CHICAGO, IL 60606 / 312-372-3011 (P)	USER NAME ■ Personal	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FOUNDATION LAYOUT STRUCTURE NO. 049-6851					MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE ■ 10,67' / 1 in.	DRAWN - MM	REVISED -							1370	12-00094-00-BR	LAKE	86	39
	PLOT DATE ■ 6/5/2025	CHECKED - RH	REVISED -		CONTRACT NO. 61K52									
	DATE - 6/9/2025	REVISED -	SHEET 7 OF 39 SHEETS STA. TO STA.											
									ILLINOIS FED. AID PROJECT					

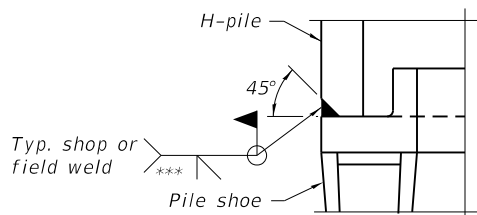


STEEL PILE TABLE

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



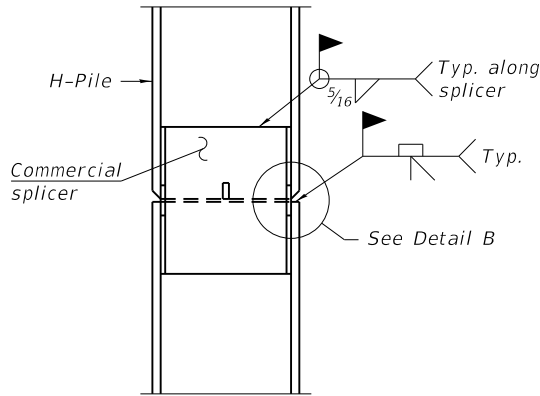
ELEVATION



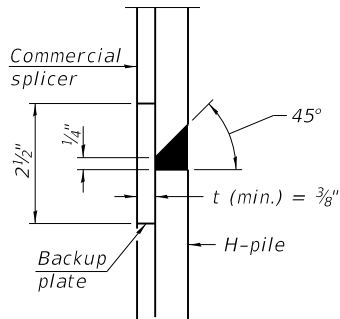
DETAIL A

SHOE ATTACHMENT

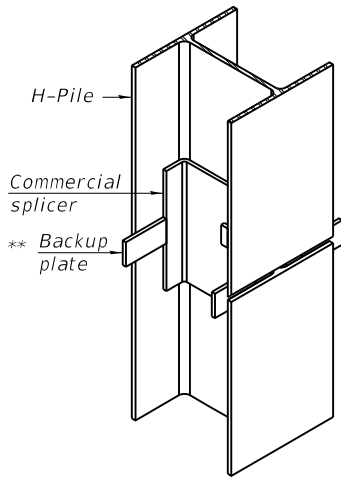
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

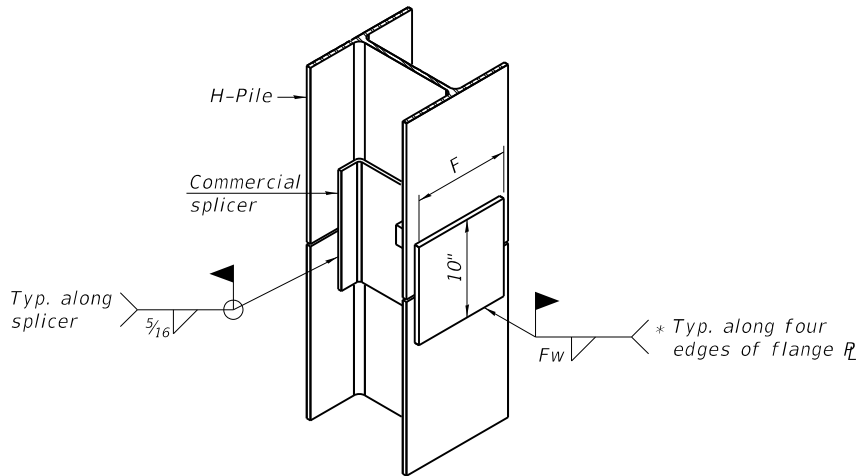


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



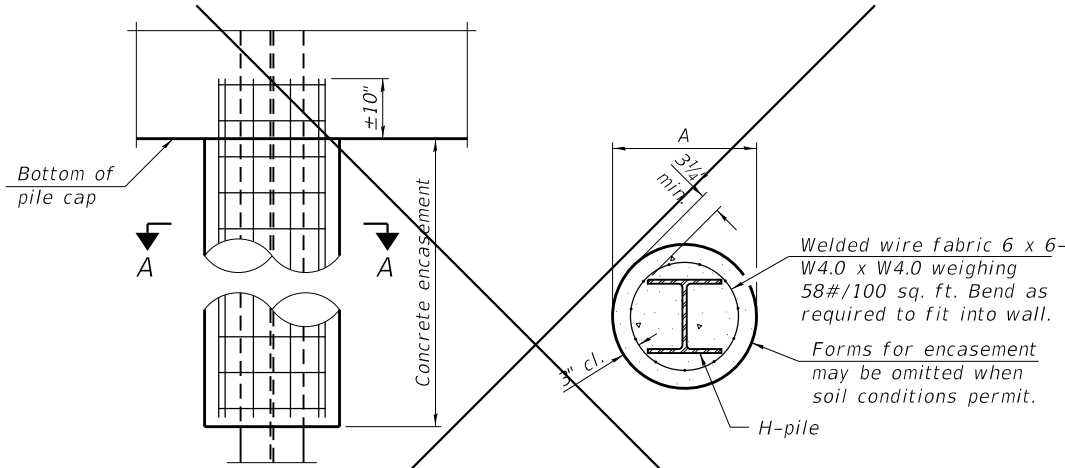
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

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

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

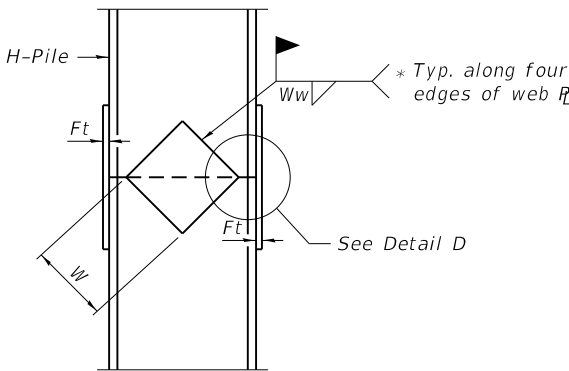
*** Weld size per pile shoe manufacturer (5/16" min.).



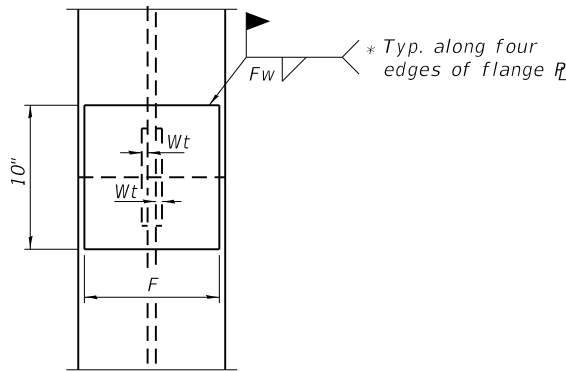
ELEVATION

SECTION A-A

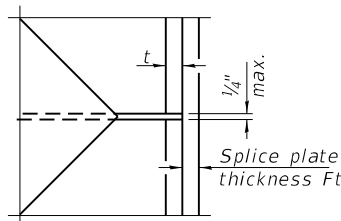
INDIVIDUAL PILE
CONCRETE ENCASEMENT
(when specified)



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

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

F-HP

2-1-2023

Lochner
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)

USER NAME	Personal
PLOT SCALE	0:2,000 *"/in.
PLOT DATE	6/5/2025

DESIGNED	-	MM
DRAWN	-	MM
CHECKED	-	RH
DATE	-	6/9/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS
STRUCTURE NO. 049-6851**

SHEET 8 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	40
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

DRILLED SHAFT INSTALLATION RECORD

Shaft Locations	Shaft Mark	Shaft Dia., ft.	Top of Rock Socket Elev.	Bottom Elev.	Rock				Ratio of Depth to Diameter	Field Bearing Pressure ksf (Note 1)	Permanent Casing Used Length, ft.	Corrugated Metal Line Used Length, ft.	Temporary Casing Used Length, ft.	Remarks
					Description		Qu=Unconfined Compressive Strength, tsf	Moisture Content %						
Pier 1	P1	3'-6"												
Pier 1	P2	3'-6"												
Pier 1	P3	3'-6"												
Pier 1	P4	3'-6"												
Pier 2	P5	3'-6"												
Pier 2	P6	3'-6"												
Pier 2	P7	3'-6"												
Pier 2	P8	3'-6"												

NOTES:

1. Field Bearing Pressure shall be calculated based on Unconfined Compressive Strength and ratio of depth to diameter of shaft. The field bearing pressure shall be 1.5 times Qu if the ratio of the depth of the drilled shaft measured from the top of the drilled shaft to the bottom of the bell (or bottom of shaft if no bell is present) to the diameter of the bell (or shaft if no bell is present) is equal to or greater than 4.0. If the depth to diameter ratio is less than 4.0, the engineer should contact IDOT.
2. All elevations are to be shown in the table using English units.
3. For drilled shaft locations see Sheet 39.

Model: Default
File Name: p:\projects\lochner\com\lochner\p\01\Documents\Sheet\000020201&0 CADStructures\Sheet\020201-09-SHT-HWL-STB-SHAFT RECORD.dgn



225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)

USER NAME	Personal	DESIGNED	-	MM	REVISED	-	
		DRAWN	-	MM	REVISED	-	
PLOT SCALE	0:2,000 *"/in.	CHECKED	-	RH	REVISED	-	
PLOT DATE	6/5/2025	DATE	-	6/9/2025	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRILLED SHAFT RECORD STRUCTURE NO. 049-6851			
	SHEET 9	OF 39 SHEETS	STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	41
CONTRACT NO. 61K52				
		ILLINOIS	FED. AID PROJECT	

PILE DRIVING RECORD

Date piles driven:
(Month Year)

Type & size of pile used:

Pile driving equipment used:

Energy rating:

Hammer used: Type

Stroke

Weight

Formula used to calculate capacity:

Pile driving Contractor:

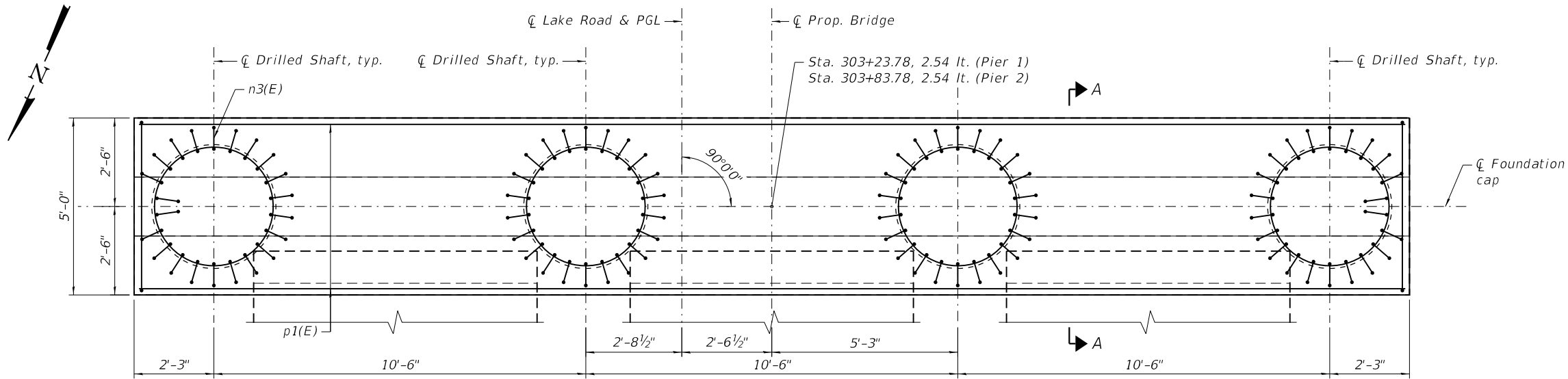
Engineer:

[illegible]

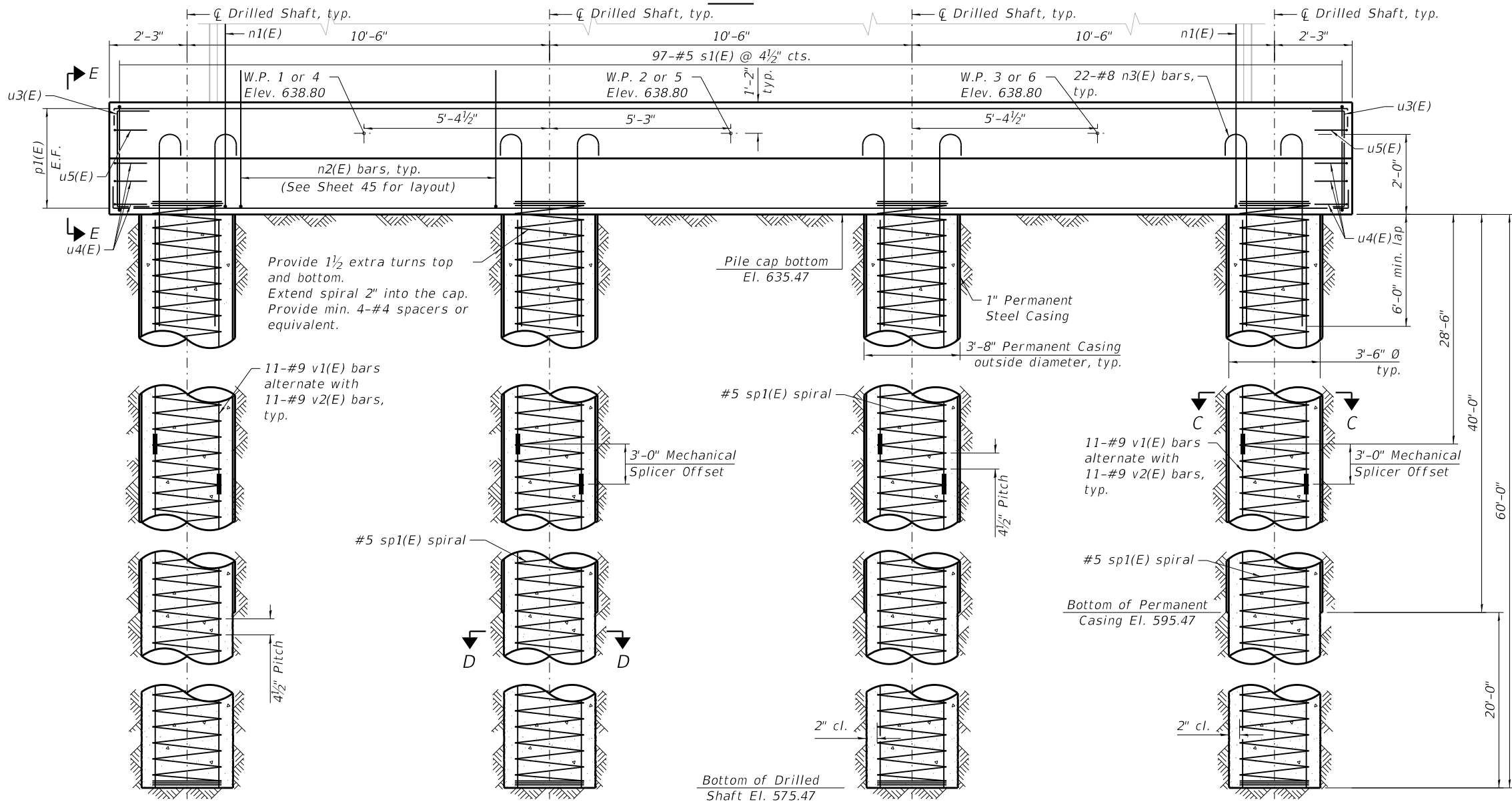
* For piles driven to refusal, blow count for the last foot shall be recorded in 6-inch increments. Pile damage, obstruction, pile rejection, test piles etc. shall be recorded in remarks column.

NOTES:

1. For pile locations see Sheet 39.

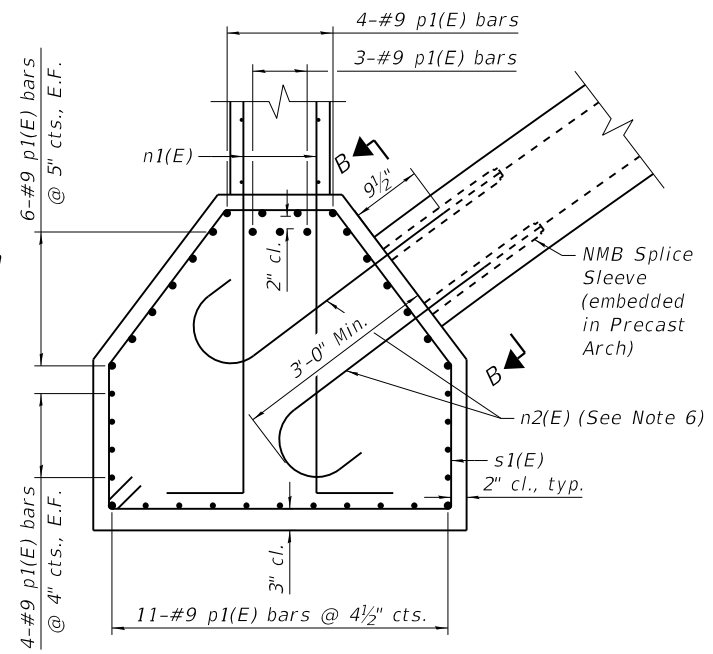


PLAN



ELEVATION

(Pier 1 Looking South, Pier 2 Looking North)

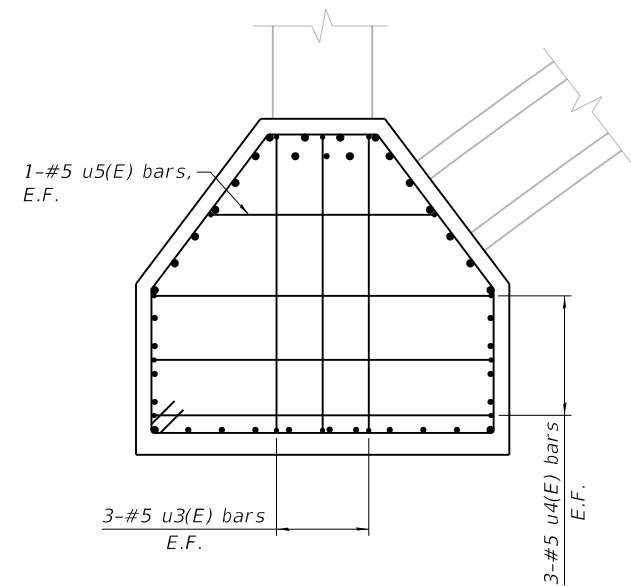


SECTION A-A

For Section B-B, See Note 6

NOTES:

1. See Sheet 39 for foundation layout.
2. Spiral reinforcement shall be provided with 1½ extra turns at each end. Extend spiral 2" into the cap. Provide min. 4-#4 spacers or equivalent.
3. Note about the splice in drilled shaft (Alter between bars).
4. For W.P. Station and Offset see Sheet 48.
5. For Sections B-B, C-C, and D-D see Sheet 45.
6. n2(E) bars must be installed with steel template plate in the field normal to the surface of footing to ensure matching the layout of NMB splice sleeves shown Sheet 49 with precision.



VIEW E-E

MODEL: Default
FILE NAME: p:\projects\chicago\projects\00002020\12-SHT-HW-STR-DRILLED SHAFT DETAILS.dgn
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)



USER NAME	Personal
DESIGNED	MM
DRAWN	MM
CHECKED	RH
DATE	6/9/2025
PLOT SCALE	0.167' / in.
PLOT DATE	6/5/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

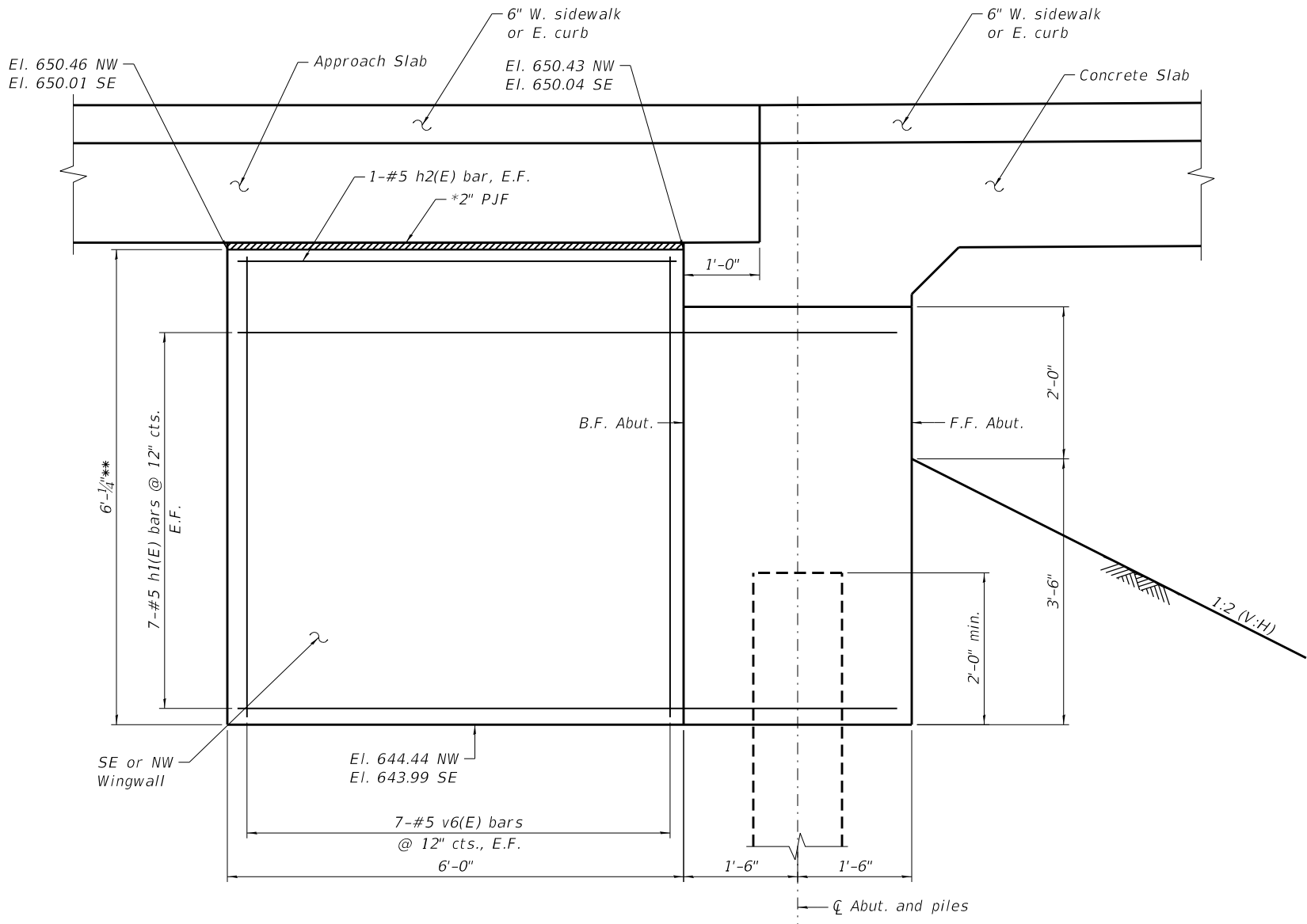
DRILLED SHAFT DETAILS
STRUCTURE NO. 049-6851

SHEET 12 OF 39 SHEETS STA. TO STA.

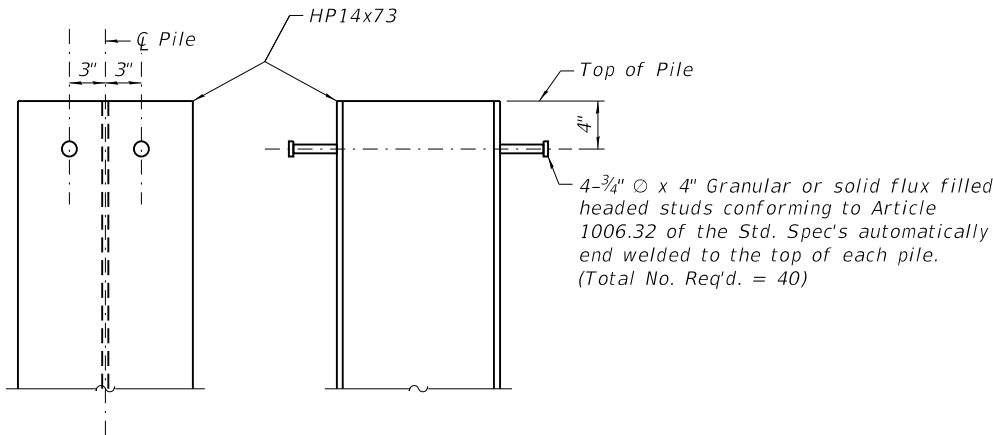
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	44
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

* Adhesive must be compatible with preformed joint material and concrete. Surface preparation shall be conducted in accordance with manufacturer's guidelines. Joint material shall fully extend to surface to prevent concrete pour around joint material.

** At end of wingwall



SE & NW WINGWALLS



PILE SHEAR STUD ANCHORS

Note: The cost of furnishing and installing the shear studs is included with "Furnishing Steel Piles HP14x73".

NOTES:

1. Top of wingwall shall follow vertical profile.

Model: Default
File Name: p:\projects\2020\202001\6.0 CAD\Structures\Sheet\020201-15-SHT-HWL-STR-ABUT & WINGWALL DET.dgn
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)



USER NAME	Personal
DESIGNED	MM
DRAWN	MM
CHECKED	RH
DATE	6/9/2025

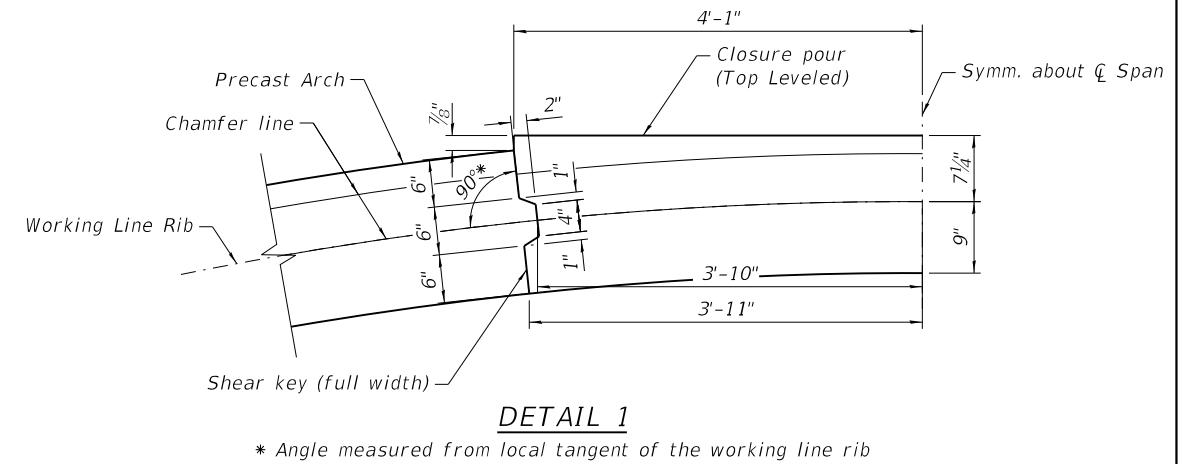
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT AND WINGWALL DETAILS
STRUCTURE NO. 049-6851

SHEET 15 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	47
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

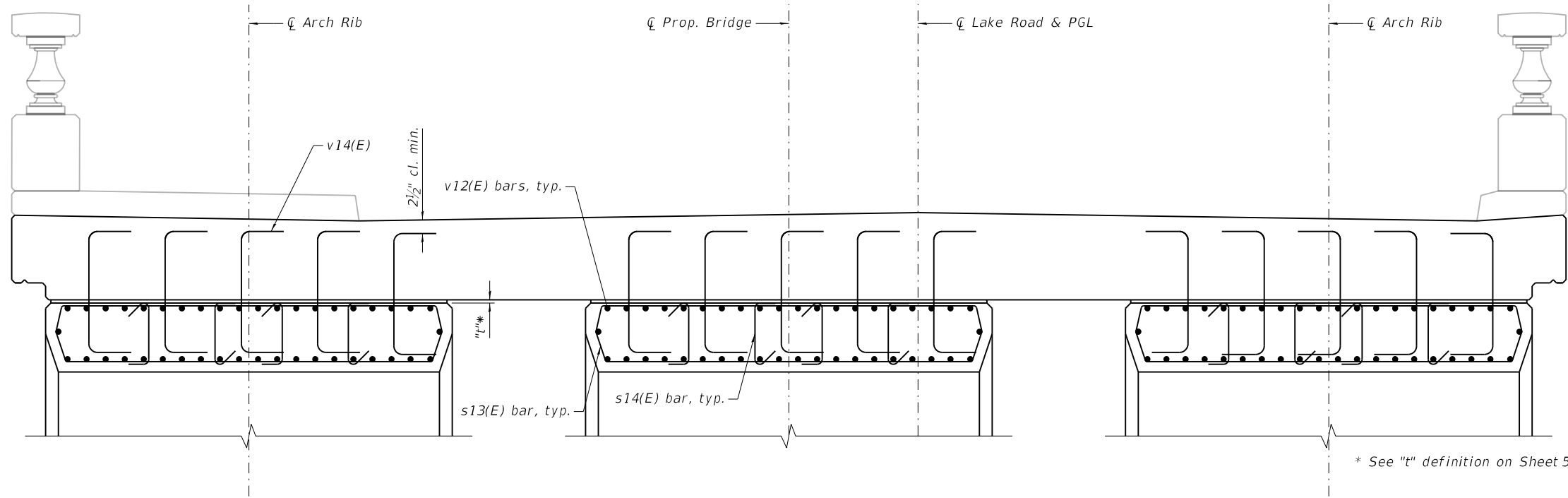


WORKING POINT LOCATIONS

<i>W.P.</i>	<i>Station</i>	<i>Offset, ft.</i>	<i>Elevation</i>
<i>W.P. #1</i>	<i>303+25.49</i>	<i>08.08 RT</i>	<i>638.80</i>
<i>W.P. #2</i>	<i>303+25.49</i>	<i>02.54 LT</i>	<i>638.80</i>
<i>W.P. #3</i>	<i>303+25.49</i>	<i>13.17 LT</i>	<i>638.80</i>
<i>W.P. #4</i>	<i>303+82.07</i>	<i>08.08 RT</i>	<i>638.80</i>
<i>W.P. #5</i>	<i>303+82.07</i>	<i>02.54 LT</i>	<i>638.80</i>
<i>W.P. #6</i>	<i>303+82.07</i>	<i>13.17 LT</i>	<i>638.80</i>

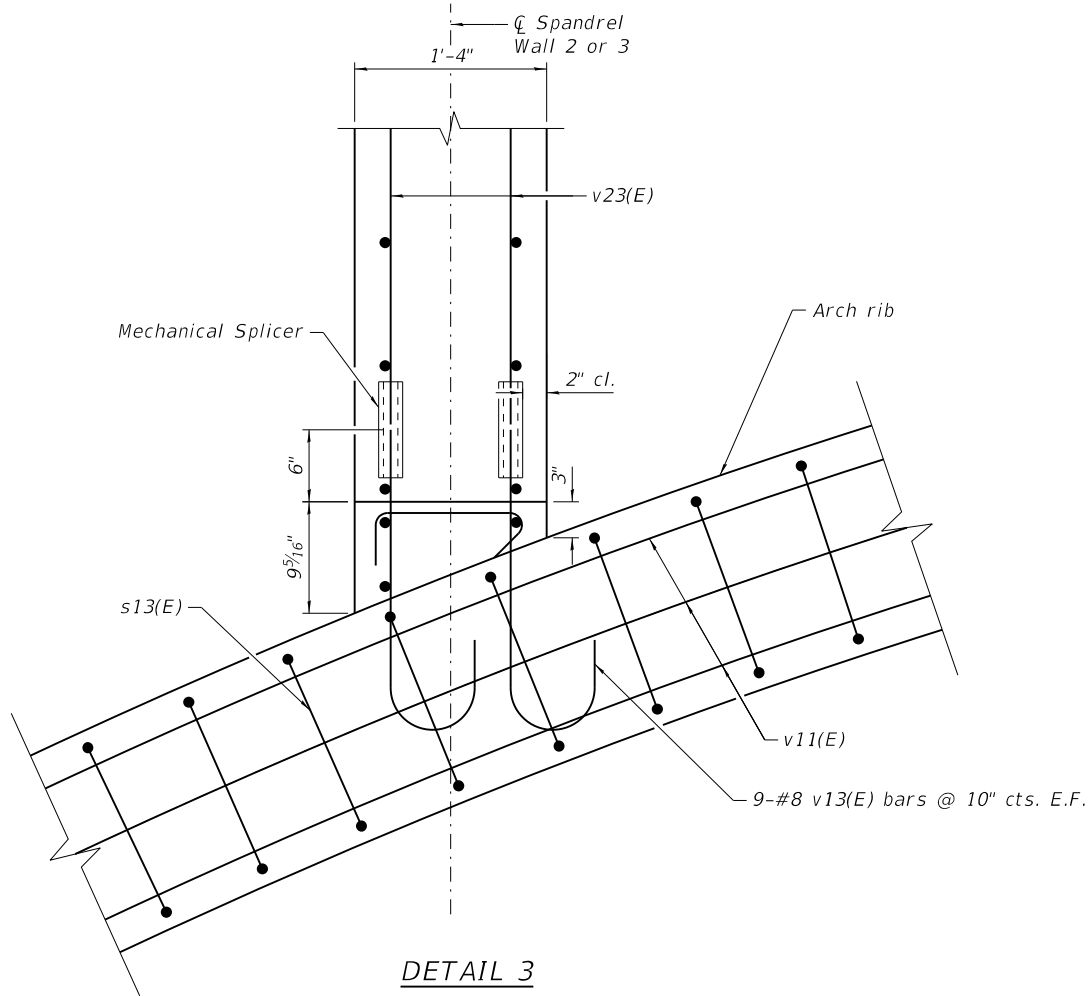
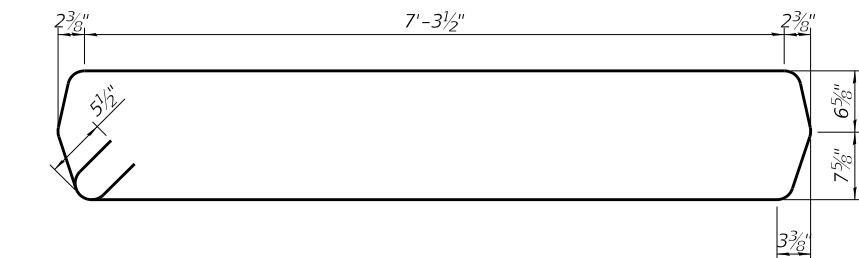
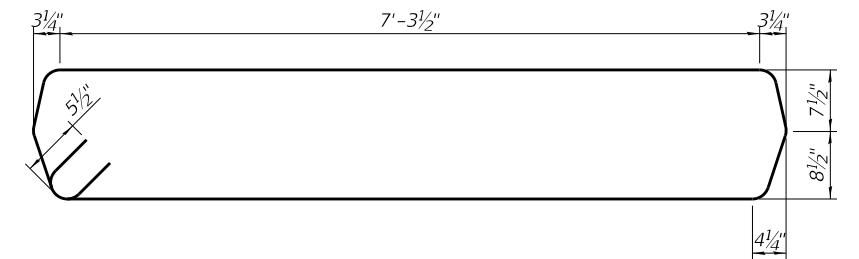
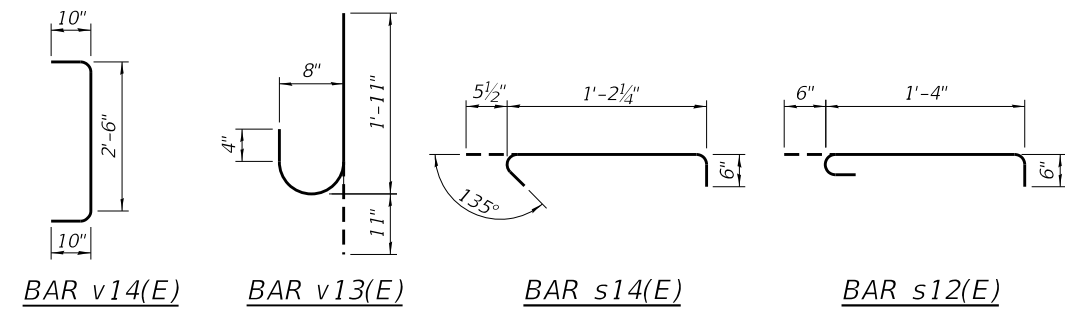


MODEL: Default
FILE NAME: p:\arch\technes-cw-bentley.com\technes-pw-01\Documents\Projects\000020201\6.0 CAD\Structures\Sheet\020201-19-SHT-HWL-STR-ARCH CROWN CLOSURE POUR DETAILS.dgn



* See "t" definition on Sheet 54.

SECTION THRU CLOSURE POUR



BILL OF MATERIAL*

Bar	No.	Size	Length	Shape
s13(E)	33	#5	18'-2"	
s14(E)	132	#5	2'-2"	
v12(E)	126	#9	6'-0"	
v14(E)	25	#5	2'-9"	
Concrete Superstructure			Cu. Yd.	10.7
Reinforcement Bars, Epoxy Coated			Pound	3,570
Mechanical Splicers			Each	252

* Bill of material for cast-in-place closure pour only.

DETAIL 3

For section view see Sheet 52.



USER NAME	Personal
DESIGNED	MM
DRAWN	MM
CHECKED	RH
DATE	6/9/2025
PLOT SCALE	2:7,999 " = 1' in.
PLOT DATE	6/5/2025

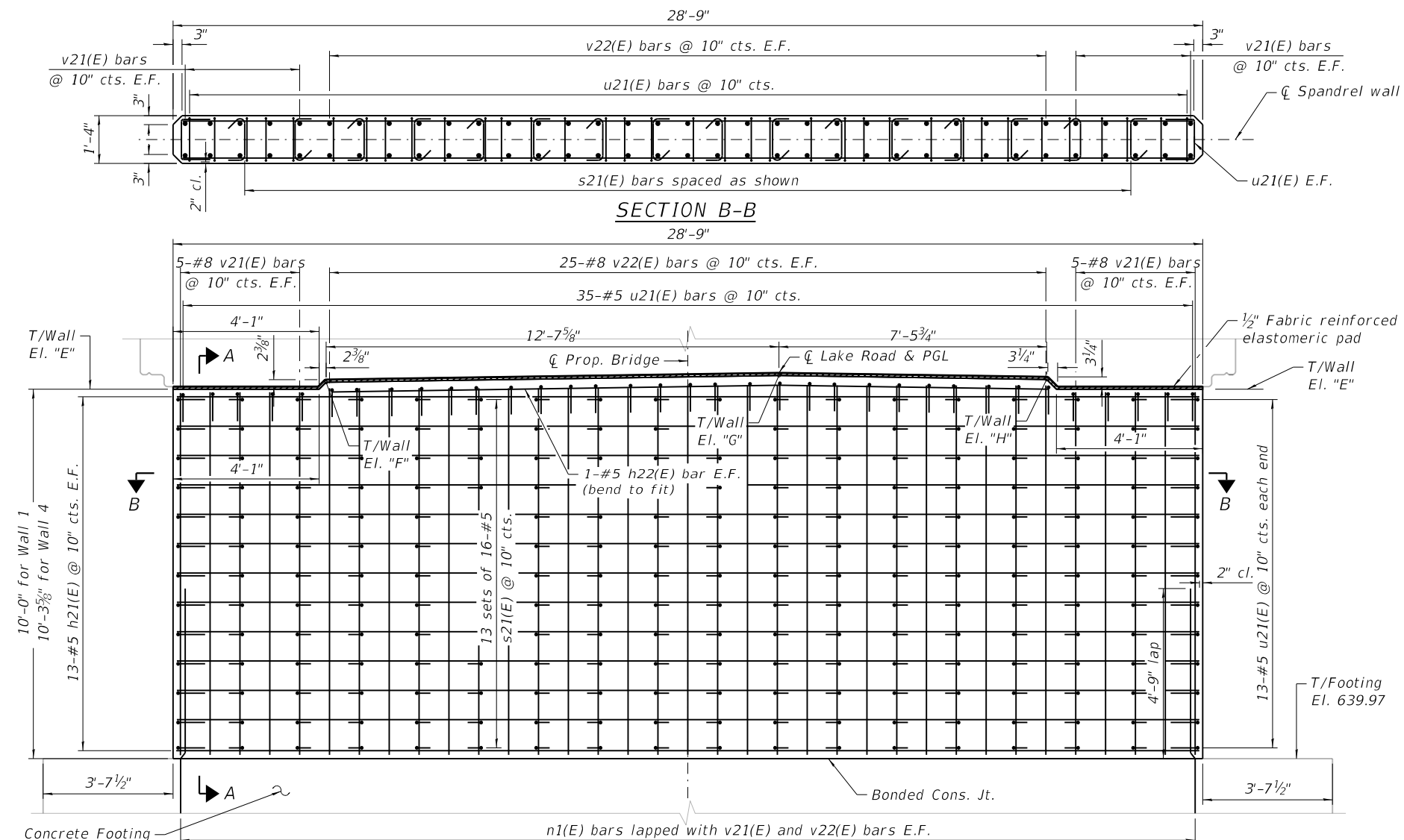
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARCH CROWN CLOSURE POUR DETAILS
STRUCTURE NO. 049-6851

SHEET 19 OF 39 SHEETS STA. TO STA.

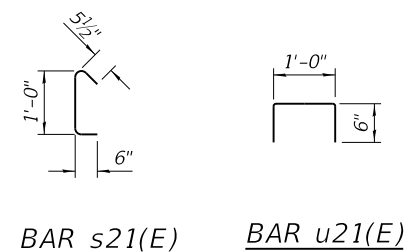
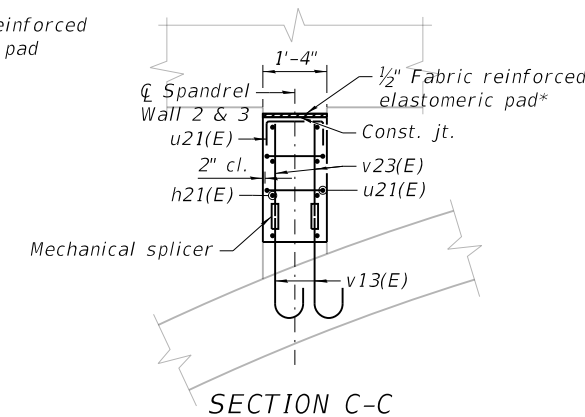
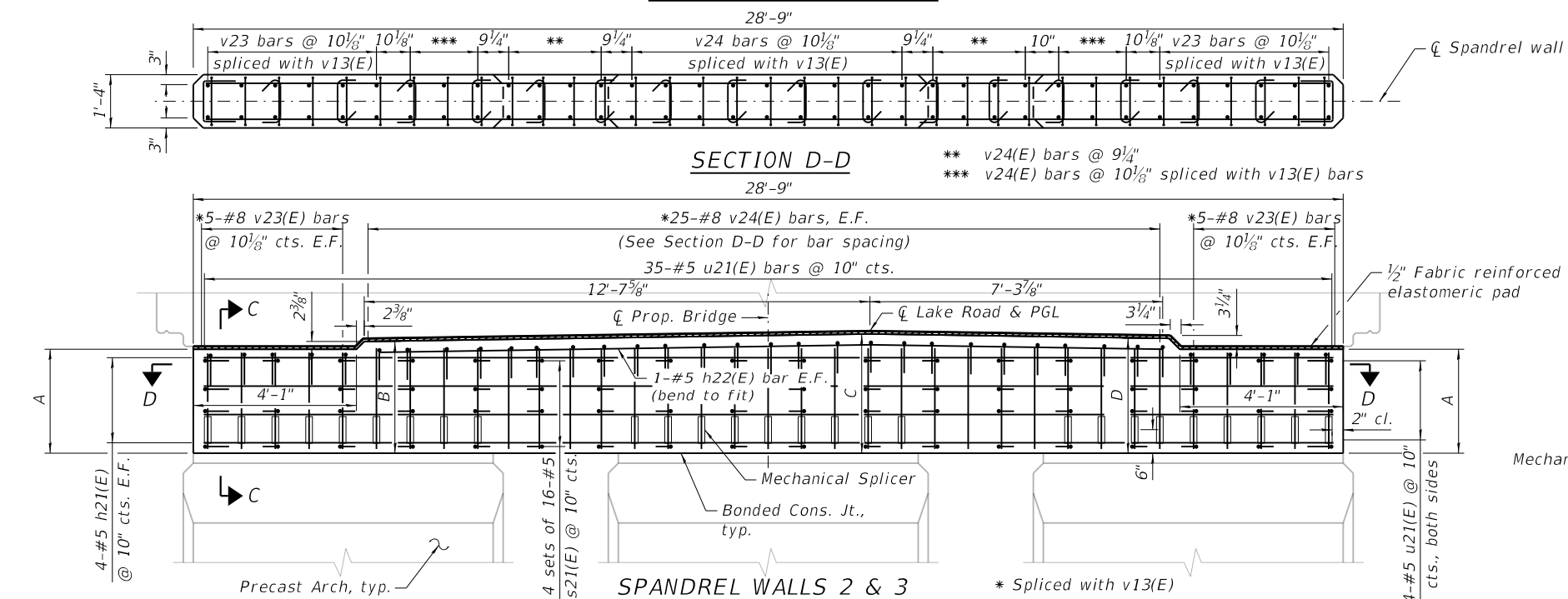
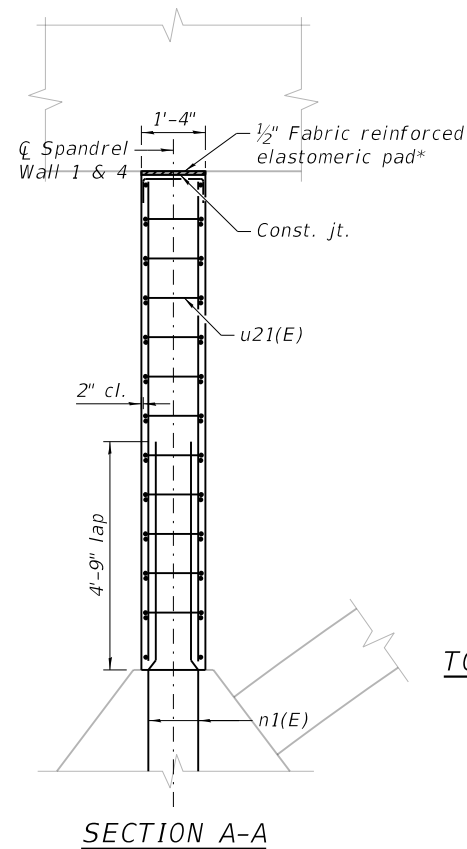
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	51
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

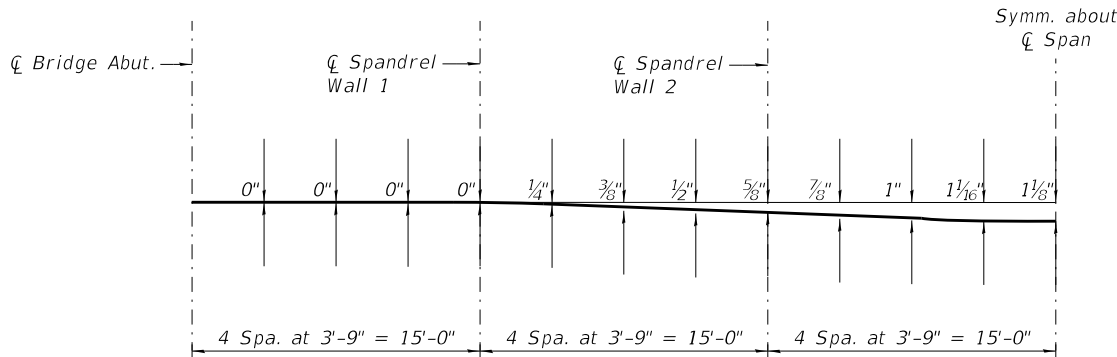


* Top concrete surface of the spandrel walls shall be finished smooth and applied with approved 2-system epoxy adhesive (hardener and resin). Allow the adhesive to settle. 1/2" fabric reinforced elastomeric pad shall be placed on top of applied epoxy resin within the entire top surface of the spandrel walls after the seat conditions are inspected and approved by the Engineer. Place compressive pressure on top of the elastomeric pad per manufacturer requirements until the epoxy is bonded and settled. Cost of furnishing and installing of 1/2" fabric reinforced elastomeric pad are included with Concrete Structures.

<u>BILL OF MATERIAL</u>				
<i>Bar</i>	<i>No.</i>	<i>Size</i>	<i>Length</i>	<i>Shape</i>
<i>h21(E)</i>	<i>68</i>	<i>#5</i>	<i>28'-5"</i>	
<i>h22(E)</i>	<i>8</i>	<i>#5</i>	<i>20'-3"</i>	
<i>s21(E)</i>	<i>544</i>	<i>#5</i>	<i>2'-0"</i>	
<i>u21(E)</i>	<i>68</i>	<i>#5</i>	<i>2'-0"</i>	
<i>v21(E)</i>	<i>40</i>	<i>#8</i>	<i>10'-0"</i>	
<i>v22(E)</i>	<i>100</i>	<i>#8</i>	<i>10'-2"</i>	
<i>v23(E)</i>	<i>40</i>	<i>#8</i>	<i>1'-7"</i>	
<i>v24(E)</i>	<i>100</i>	<i>#8</i>	<i>1'-10"</i>	
<i>Concrete Structures</i>			<i>Cu. Yd.</i>	<i>37.4</i>
<i>Mechanical Splicer</i>			<i>Each</i>	<i>108</i>
<i>Reinforcement Bars,</i> <i>Epoxy Coated</i>			<i>Pound</i>	<i>7,910</i>

<i>Elev.</i>	<i>Spandrel Wall 1</i>	<i>Spandrel Wall 4</i>
<i>E</i>	649.95	650.25
<i>F</i>	650.15	650.45
<i>G</i>	650.34	650.64
<i>H</i>	650.22	650.52



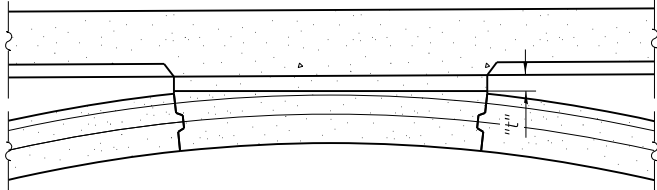
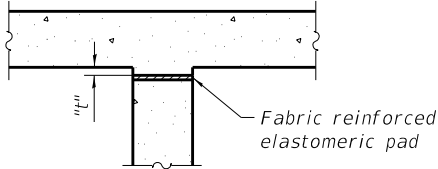


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete slab, sidewalk and ornamental railing 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 in the tables.



To determine "t": After all precast arches have been erected and Spandrel Wall 2 & 3 and precast arch closure pour have been completed, elevations at top of 1/2" neoprene sheet placed on top of the spandrel wall 2 & 3, and at top of the arch closure pour shall be surveyed. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top of the Spandrel Wall 2 & 3, and at top of the arch closure pour.

FILLET HEIGHTS

NOTES:

- 1. Work this Sheet with Sheets 53 & 55.
- 2. Offsets are taken from Center Line of Lake Road & PGL. Offset of the Center Line of Prop. Bridge and PGL are 2'-6 1/2" left of Center Line of Prop. Lake Road.
- 3. The deflection due to the weight of concrete slab and all superimposed dead loads, including weight of sidewalk and concrete ornamental railing, shall be determined by subtracting "Theoretical Grade Elevations" from "Theoretical Grade Elevations Adjusted For Dead Load Deflection".

Center Line of Prop. Bridge

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Center Line of S. Abut.	303+08.78	2.54' lt.	651.60	651.60
A	303+16.28	2.54' lt.	651.63	651.63
Center Line of Spandrel Wall 1	303+23.78	2.54' lt.	651.67	651.67
B	303+31.28	2.54' lt.	651.71	651.74
Center Line of Spandrel Wall 2	303+38.78	2.54' lt.	651.75	651.80
C	303+46.28	2.54' lt.	651.78	651.87
Center Line of Span	303+53.78	2.54' lt.	651.82	651.91
D	303+61.28	2.54' lt.	651.86	651.95
Center Line of Spandrel Wall 3	303+68.78	2.54' lt.	651.90	651.95
E	303+76.28	2.54' lt.	651.93	651.96
Center Line of Spandrel Wall 4	303+83.78	2.54' lt.	651.97	651.97
F	303+91.28	2.54' lt.	652.01	652.01
Center Line of N. Abut.	303+98.78	2.54' lt.	652.05	652.05

Center Line of Lake Road & PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Center Line of S. Abut.	303+08.78	0	651.63	651.63
A	303+16.28	0	651.67	651.67
Center Line of Spandrel Wall 1	303+23.78	0	651.71	651.71
B	303+31.28	0	651.75	651.77
Center Line of Spandrel Wall 2	303+38.78	0	651.78	651.84
C	303+46.28	0	651.82	651.91
Center Line of Span	303+53.78	0	651.86	651.95
D	303+61.28	0	651.90	651.98
Center Line of Spandrel Wall 3	303+68.78	0	651.93	651.99
E	303+76.28	0	651.97	652.00
Center Line of Spandrel Wall 4	303+83.78	0	652.01	652.01
F	303+91.28	0	652.05	652.05
Center Line of N. Abut.	303+98.78	0	652.08	652.08

Center Line of Arch Rib 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Center Line of S. Abut.	303+08.78	8.08' rt.	651.51	651.51
A	303+16.28	8.08' rt.	651.55	651.55
Center Line of Spandrel Wall 1	303+23.78	8.08' rt.	651.59	651.59
B	303+31.28	8.08' rt.	651.63	651.67
Center Line of Spandrel Wall 2	303+38.78	8.08' rt.	651.66	651.75
C	303+46.28	8.08' rt.	651.70	651.83
Center Line of Span	303+53.78	8.08' rt.	651.74	651.88
D	303+61.28	8.08' rt.	651.78	651.90
Center Line of Spandrel Wall 3	303+68.78	8.08' rt.	651.81	651.90
E	303+76.28	8.08' rt.	651.85	651.89
Center Line of Spandrel Wall 4	303+83.78	8.08' rt.	651.89	651.89
F	303+91.28	8.08' rt.	651.93	651.93
Center Line of N. Abut.	303+98.78	8.08' rt.	651.96	651.96

Model: Default
File Name: p:\projects\12-000094-00-00\12-000094-00-00\CADStructures\Sheet\020201-22-SHT-HWL-STR-TOP OF DECK ELEV PLAN TABLES 2.dgn
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)



USER NAME	Personal	DESIGNED	-	MM	REVISED	-	
		DRAWN	-	MM	REVISED	-	
PLOT SCALE	19.999' / in.	CHECKED	-	RH	REVISED	-	
PLOT DATE	6/5/2025	DATE	-	6/9/2025	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATION PLAN & TABLES 2
STRUCTURE NO. 049-6851

SHEET 22 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	54
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

EAST CURB LINE

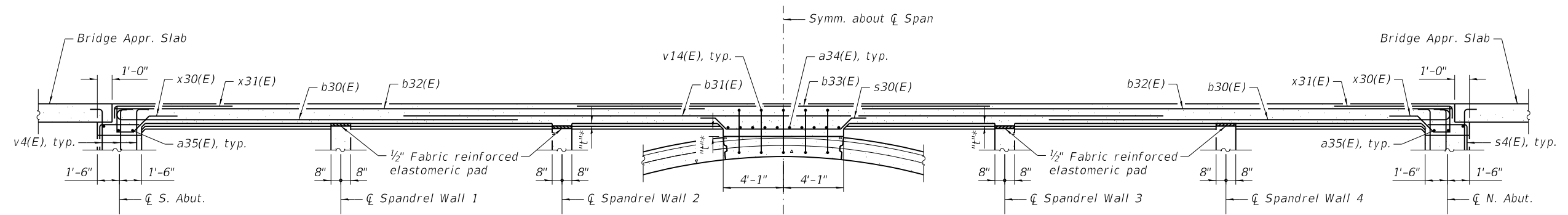
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☒ S. Abut.	303+08.78	11.00' rt.	651.47	651.47
A	303+16.28	11.00' rt.	651.50	651.50
☒ Spandrel Wall 1	303+23.78	11.00' rt.	651.54	651.54
B	303+31.28	11.00' rt.	651.58	651.61
☒ Spandrel Wall 2	303+38.78	11.00' rt.	651.62	651.67
C	303+46.28	11.00' rt.	651.65	651.74
☒ Span	303+53.78	11.00' rt.	651.69	651.78
D	303+61.28	11.00' rt.	651.73	651.82
☒ Spandrel Wall 3	303+68.78	11.00' rt.	651.77	651.82
E	303+76.28	11.00' rt.	651.80	651.83
☒ Spandrel Wall 4	303+83.78	11.00' rt.	651.84	651.84
F	303+91.28	11.00' rt.	651.88	651.88
☒ N. Abut.	303+98.78	11.00' rt.	651.92	651.92

EAST EDGE OF DECK

<i>Location</i>	<i>Station</i>	<i>Offset</i>	<i>Theoretical Grade Elevations</i>	<i>Theoretical Grade Elevations Adjusted For Dead Load Deflection</i>
℄ S. Abut.	303+08.78	12.75' rt.	651.58	651.58
A	303+16.28	12.75' rt.	651.62	651.62
℄ Spandrel Wall 1	303+23.78	12.75' rt.	651.66	651.66
B	303+31.28	12.75' rt.	651.69	651.72
℄ Spandrel Wall 2	303+38.78	12.75' rt.	651.73	651.79
C	303+46.28	12.75' rt.	651.77	651.86
℄ Span	303+53.78	12.75' rt.	651.81	651.90
D	303+61.28	12.75' rt.	651.84	651.93
℄ Spandrel Wall 3	303+68.78	12.75' rt.	651.88	651.94
E	303+76.28	12.75' rt.	651.92	651.95
℄ Spandrel Wall 4	303+83.78	12.75' rt.	651.96	651.96
F	303+91.28	12.75' rt.	651.99	651.99
℄ N. Abut.	303+98.78	12.75' rt.	652.03	652.03

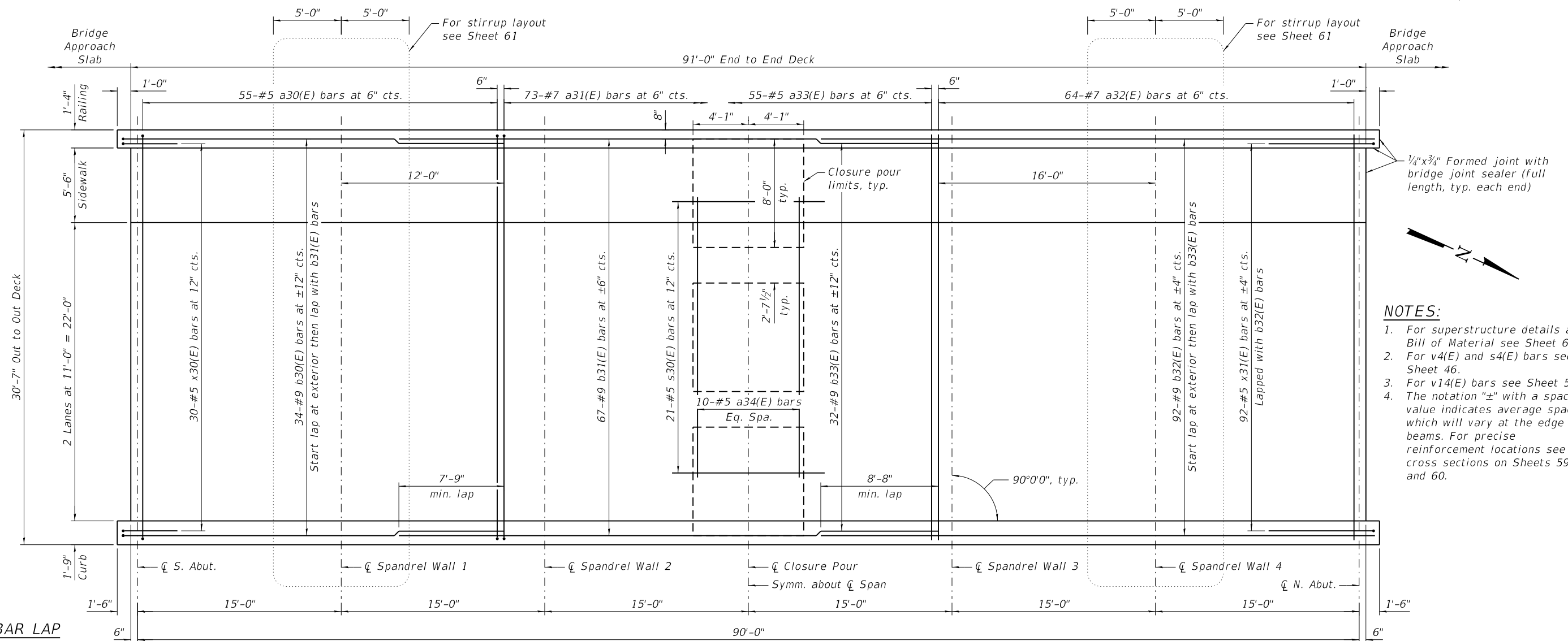
NOTES:

1. Work this Sheet with Sheets 53 & 54.
2. Offsets are taken from $\text{C Lake Road} \& \text{PGL}$. Offset of the C Prop. Bridge and PGL are $2'-6\frac{1}{2}"$ left of C Prop. Lake Road .
3. The deflection due to the weight of concrete slab and all superimposed dead loads, including weight of sidewalk and concrete ornamental railing, shall be determined by subtracting "Theoretical Grade Elevations" from "Theoretical Grade Elevations Adjusted For Dead Load Deflection".

ELEVATION

(a30(E), a31(E), a32(E), a33(E), s31(E), and s32(E) bars not shown for clarity)

* See "t" definition on Sheet 54.
A constant dimension to bottom of slab within full wall length at Spandrel Wall 2 & 3; A constant dimension to bottom of slab within closure pour width over each of three closure pours.



NOTES:

1. For superstructure details and Bill of Material see Sheet 63.
2. For v4(E) and s4(E) bars see Sheet 46.
3. For v14(E) bars see Sheet 51.
4. The notation "±" with a spacing value indicates average spacing which will vary at the edge beams. For precise reinforcement locations see cross sections on Sheets 59 and 60.

MINIMUM BAR LAP

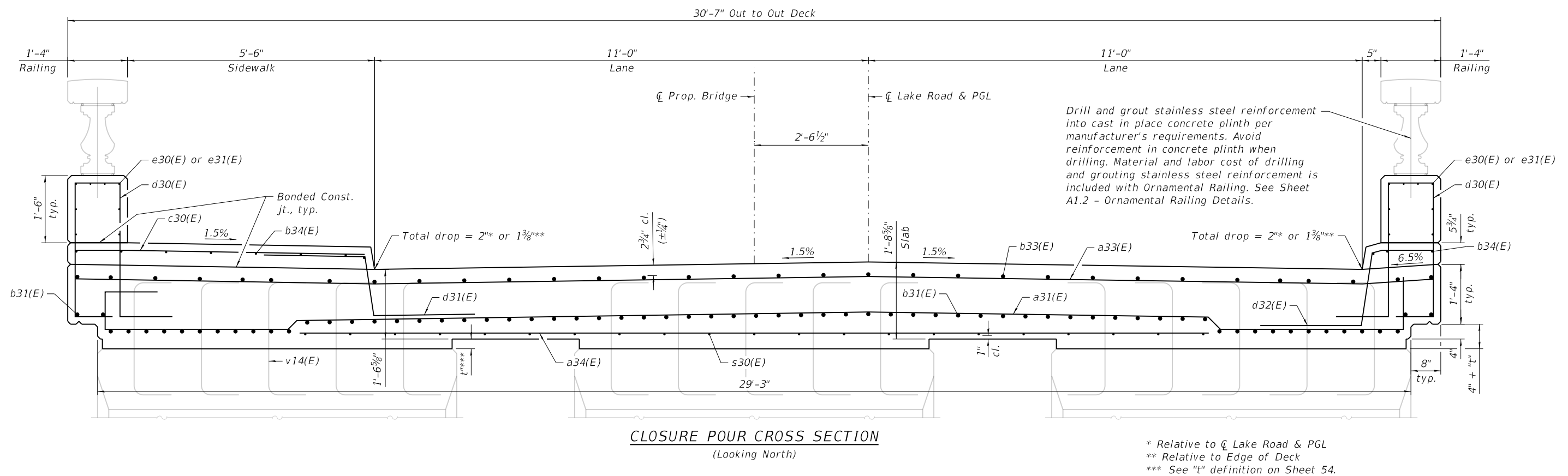
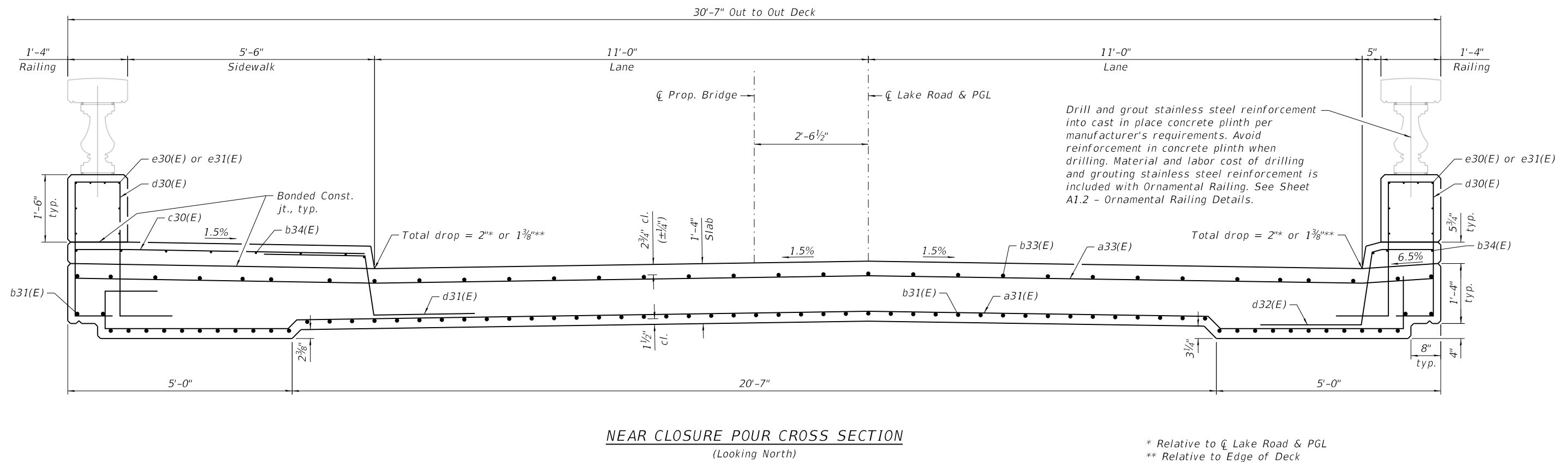
#9 bar (Bottom) = 7'-9"
#9 bar (Top) = 8'-8"

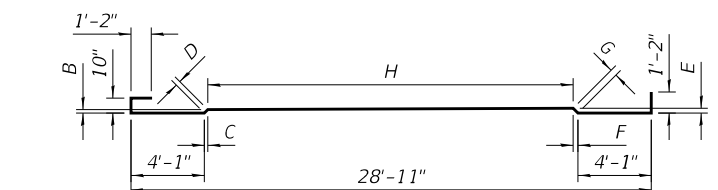
BOTTOM

(Bottom layer reinforcement shown)

PLAN

TOP
(Top layer reinforcement shown)

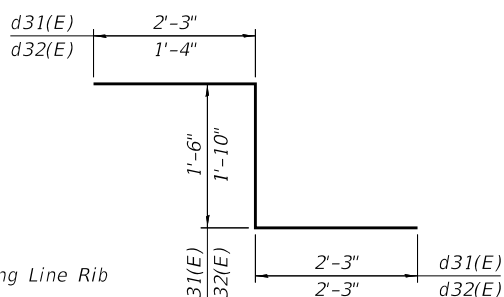




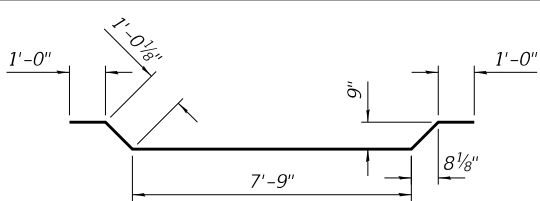
B, C, D, E, F, G & H DIMENSIONS

Bar	B	C	D	E	F	G	H
a30(E)	3"	2 $\frac{1}{8}$ "	3 $\frac{3}{8}$ "	3 $\frac{1}{8}$ "	3"	4 $\frac{1}{8}$ "	20'-3 $\frac{3}{8}$ "
a31(E)	3 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	3 $\frac{3}{8}$ "	4 $\frac{3}{8}$ "	2 $\frac{3}{4}$ "	5 $\frac{1}{4}$ "	20'-4 $\frac{3}{8}$ "

(South Abutment shown, North Abutment similar)

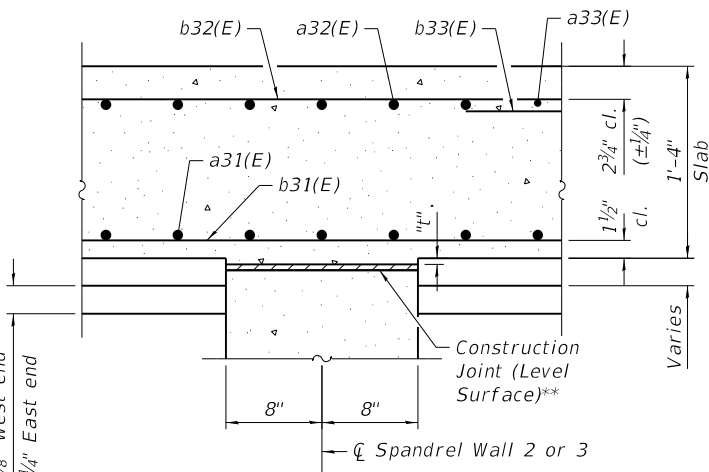


BAR d30(E)

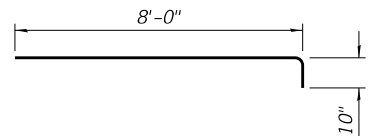


BAR s30(E)

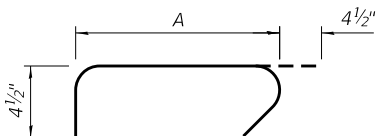
See shear key
details in DETAIL
1 on Sheet 48



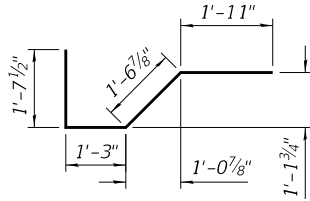
SPANDREL WALL 2 & 3 SECTION



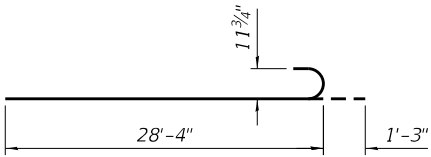
BAR x31(E)



BAR s31(E) & s32(E)



BAR x30(E)

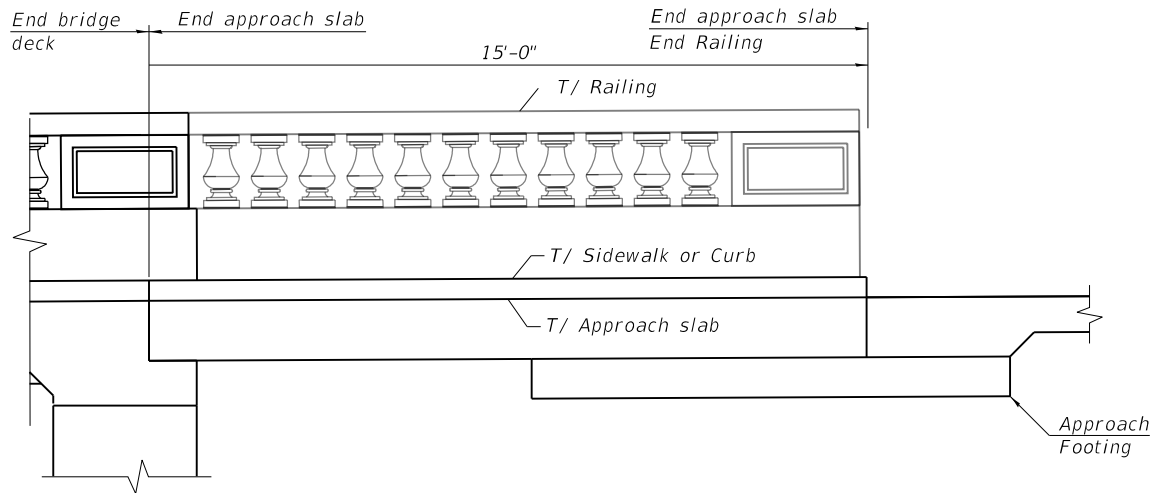


BAR b30(E)

<u><i>SUPERSTRUCTURE</i></u>				
<u><i>BILL OF MATERIAL</i></u>				
<i>Bar</i>	<i>No.</i>	<i>Size</i>	<i>Length</i>	<i>Shape</i>
<i>a30(E)</i>	<i>110</i>	<i>#5</i>	<i>32'-6"</i>	
<i>a31(E)</i>	<i>73</i>	<i>#7</i>	<i>32'-6"</i>	
<i>a32(E)</i>	<i>128</i>	<i>#7</i>	<i>30'-3"</i>	
<i>a33(E)</i>	<i>55</i>	<i>#5</i>	<i>30'-3"</i>	
<i>a34(E)</i>	<i>10</i>	<i>#5</i>	<i>20'-3"</i>	
<i>a35(E)</i>	<i>6</i>	<i>#4</i>	<i>28'-9"</i>	
<i>b30(E)</i>	<i>68</i>	<i>#9</i>	<i>29'-7"</i>	
<i>b31(E)</i>	<i>67</i>	<i>#9</i>	<i>51'-6"</i>	
<i>b32(E)</i>	<i>184</i>	<i>#9</i>	<i>41'-0"</i>	
<i>b33(E)</i>	<i>32</i>	<i>#9</i>	<i>28'-0"</i>	
<i>b34(E)</i>	<i>33</i>	<i>#5</i>	<i>32'-11"</i>	
<i>c30(E)</i>	<i>92</i>	<i>#5</i>	<i>6'-6"</i>	
<i>d30(E)</i>	<i>288</i>	<i>#5</i>	<i>9'-0"</i>	
<i>d31(E)</i>	<i>92</i>	<i>#5</i>	<i>6'-0"</i>	
<i>d32(E)</i>	<i>92</i>	<i>#5</i>	<i>5'-5"</i>	
<i>e30(E)</i>	<i>64</i>	<i>#4</i>	<i>14'-8"</i>	
<i>e31(E)</i>	<i>32</i>	<i>#4</i>	<i>16'-2"</i>	
<i>s30(E)</i>	<i>21</i>	<i>#5</i>	<i>11'-10"</i>	
<i>s31(E)</i>	<i>420</i>	<i>#4</i>	<i>1'-10"</i>	
<i>s32(E)</i>	<i>252</i>	<i>#4</i>	<i>2'-1"</i>	
<i>x30(E)</i>	<i>60</i>	<i>#5</i>	<i>6'-5"</i>	
<i>x31(E)</i>	<i>184</i>	<i>#5</i>	<i>8'-10"</i>	
<i>Concrete Superstructure</i>			<i>Cu. Yd.</i>	<i>181.7</i>
<i>Bridge Deck Grooving</i>			<i>Sq. Yd.</i>	<i>203</i>
<i>Protective Coat</i>			<i>Sq. Yd.</i>	<i>427</i>
<i>Reinforcement Bars, Epoxy Coated</i>			<i>Pound</i>	<i>75,580</i>

NOTES:

1. Place bars a30(E), a31(E), a32(E), and a33(E) parallel to the cross slopes.
2. Place bars x30(E) and x31(E) parallel to $\mathcal{C}$ of roadway.
3. Match the bridge seat slope with the approach seat slope.
4. Protective Coat shall be applied to the entire top surface of slab including top and inside vertical face of sidewalk and railings.



INSIDE ELEVATION OF BALUSTRADE AND SIDEWALK OR CURB
(15'-0" Maximum Length)

NOTES:

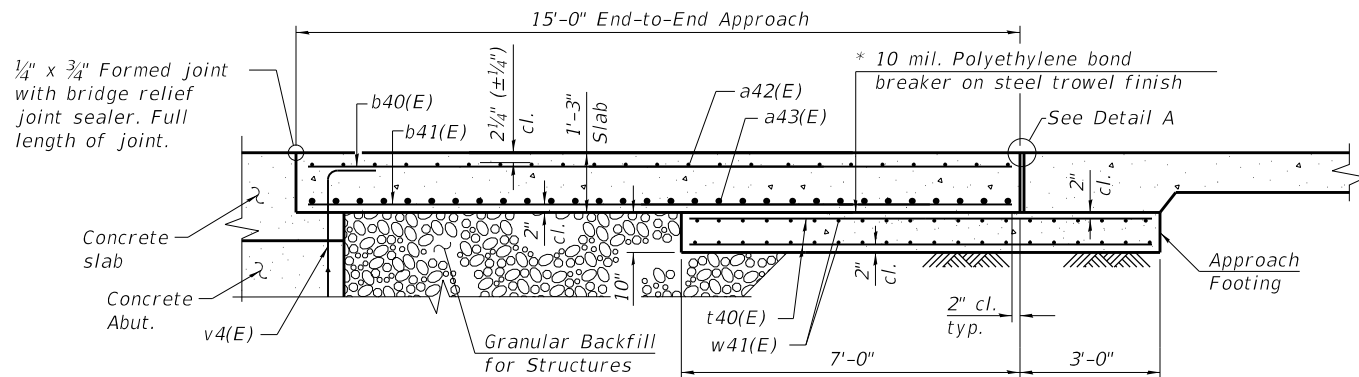
1. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
2. Sidewalk and curb concrete under railing shall be paid for as Concrete Superstructure.
3. Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
4. Approach footing concrete shall be paid for as Concrete Structures.
5. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
6. Cost of excavation for approach footing included with Concrete Structures.
7. For Granular Backfill for Structures and drainage treatment details, see Sheet 34.
8. Protective Coat shall be applied to the entire top surface of approach slab including top and inside vertical face of sidewalk and railings.

SOUTH APPROACH
BILL OF MATERIAL

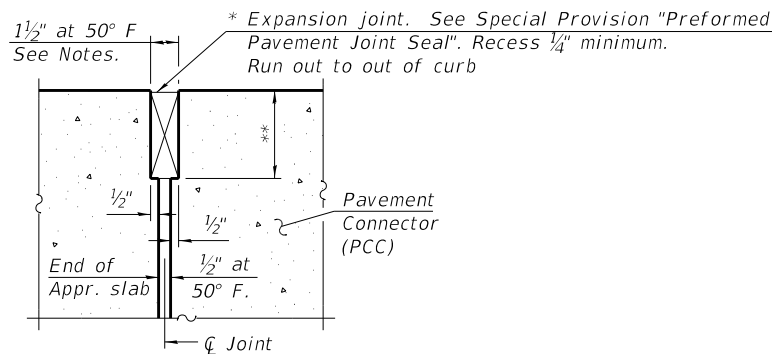
Bar	No.	Size	Length	Shape
a40(E)	23	#5	28'-11"	—
a41(E)	31	#7	28'-11"	—
b40(E)	45	#5	14'-8"	—
b41(E)	59	#7	14'-8"	—
d30(E)	15	#5	9'-0"	U
d41(E)	15	#5	4'-11"	J
d42(E)	13	#5	5'-10"	J
t40(E)	60	#4	9'-8"	—
w40(E)	20	#5	28'-11"	—
Concrete Structures			Cu. Yd.	9.1
Concrete Superstructure (Approach Slab)			Cu. Yd.	20.4
Reinforcement Bars, Epoxy Coated			Pound	6,280

NORTH APPROACH
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a42(E)	23	#5	28'-6"	—
a43(E)	31	#7	28'-6"	—
b40(E)	44	#5	14'-8"	—
b41(E)	59	#7	14'-8"	—
d30(E)	15	#5	9'-0"	U
d42(E)	16	#5	5'-10"	J
t40(E)	60	#4	9'-8"	—
w41(E)	20	#5	27'-2"	—
Concrete Structures			Cu. Yd.	8.5
Concrete Superstructure (Approach Slab)			Cu. Yd.	20.0
Reinforcement Bars, Epoxy Coated			Pound	6,130

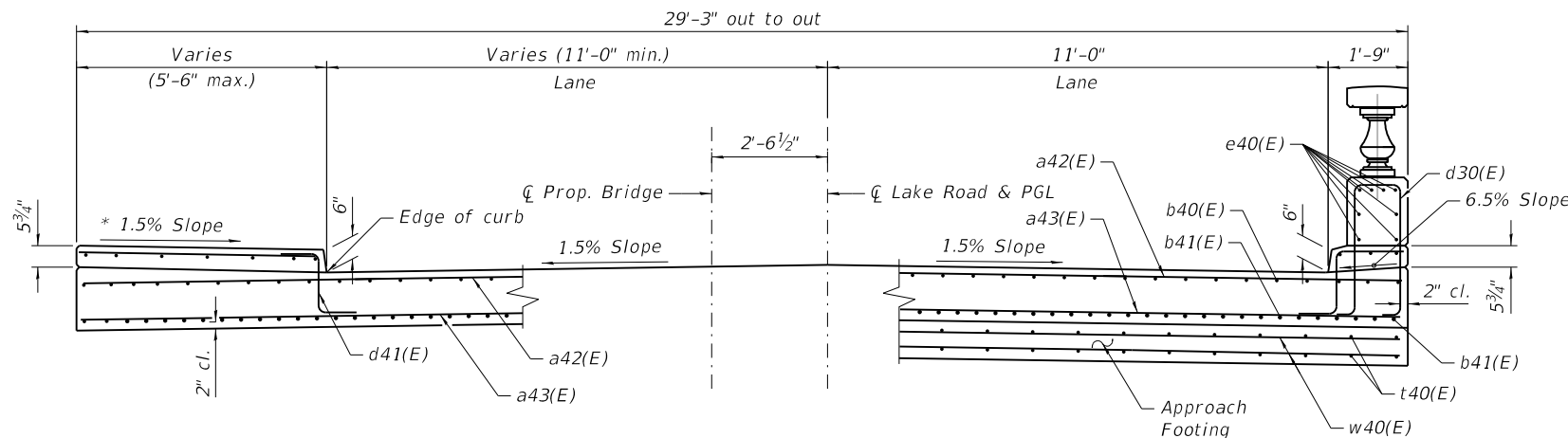


SECTION B-B



DETAIL A

- * Cost included with Concrete Superstructure (Approach Slab).
** Per manufacturer recommendations

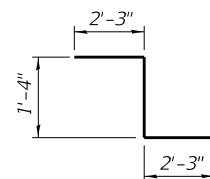


NEAR ABUTMENT

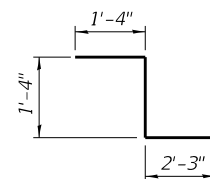
AT APPROACH FOOTING

CROSS SECTION THRU S. APPROACH SLAB
(Looking North)

* Slope along radius



BAR d42(E)



BAR d41(E)

MODEL: Default
FILE NAME: p:\projects\00002020\016.0 CAD Structures\Sheet\020201-33-SHT-HWL-STR-APPR SLAB 2.dgn
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)



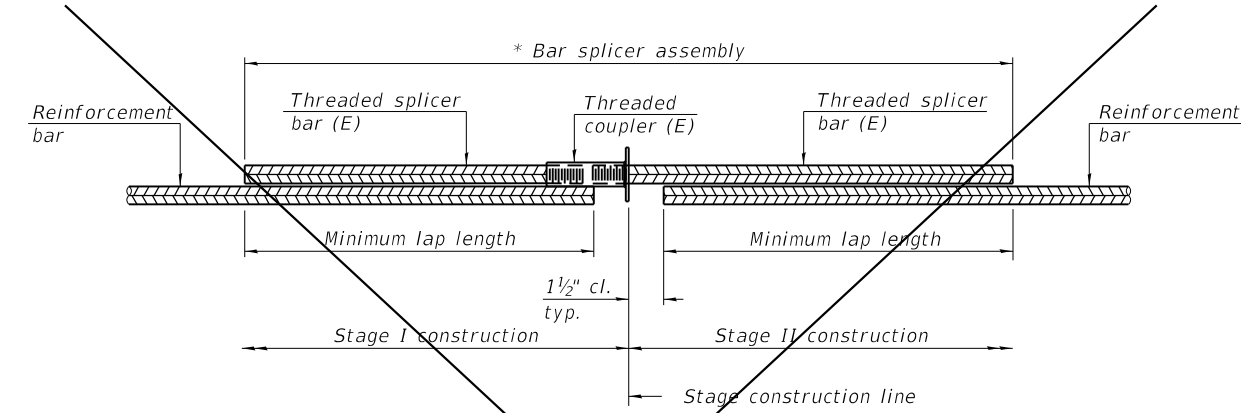
USER NAME	Personal	DESIGNED	MM	REVISED	-
DRAWN	MM	REVISIONS	-	REVISIONS	-
PLOT SCALE	0:2" = 1" / in.	CHECKED	RH	REVISIONS	-
PLOT DATE	6/5/2025	DATE	6/9/2025	REVISIONS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB PLAN, SECTION & DETAILS 2
STRUCTURE NO. 049-6851

SHEET 33 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	65
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



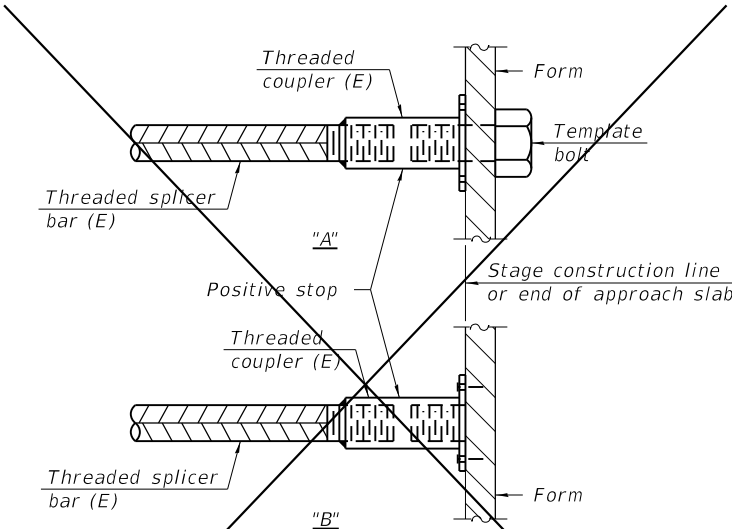
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

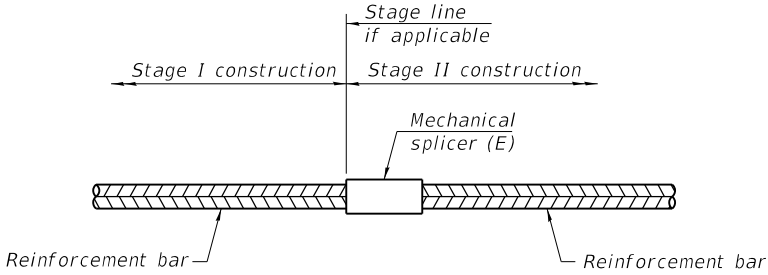
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length



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
Drilled Shaft	#9	176
Spandrel Walls 2 & 3	#8	108
Closure pour	#9	252

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

BSD-1

2-1-2023

Date 8/22/12

BORING NO. SB-1 **DRILLING METHOD** CFA **HAMMER TYPE** Automatic

E L E V	D E P T H	B L O W S	U C S Qu	M O I S T
(ft.)	(ft.)	/6"	(tsf)	(%)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

Date 8/22/12

BORING NO. SB-2 **DRILLING METHOD** CFA **HAMMER TYPE** Automatic

E L E V	D E P T H	B L O W S	U C S Qu	M O I S T
(ft.)	(ft.)	/6"	(tsf)	(%)

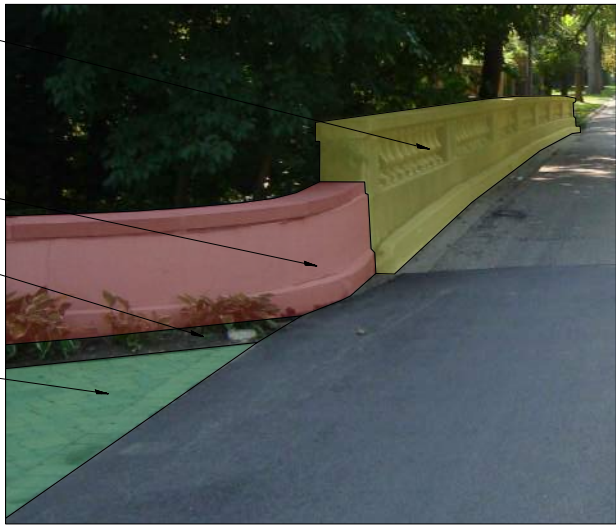
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

1. For locations of borholes, see Sheet 33.



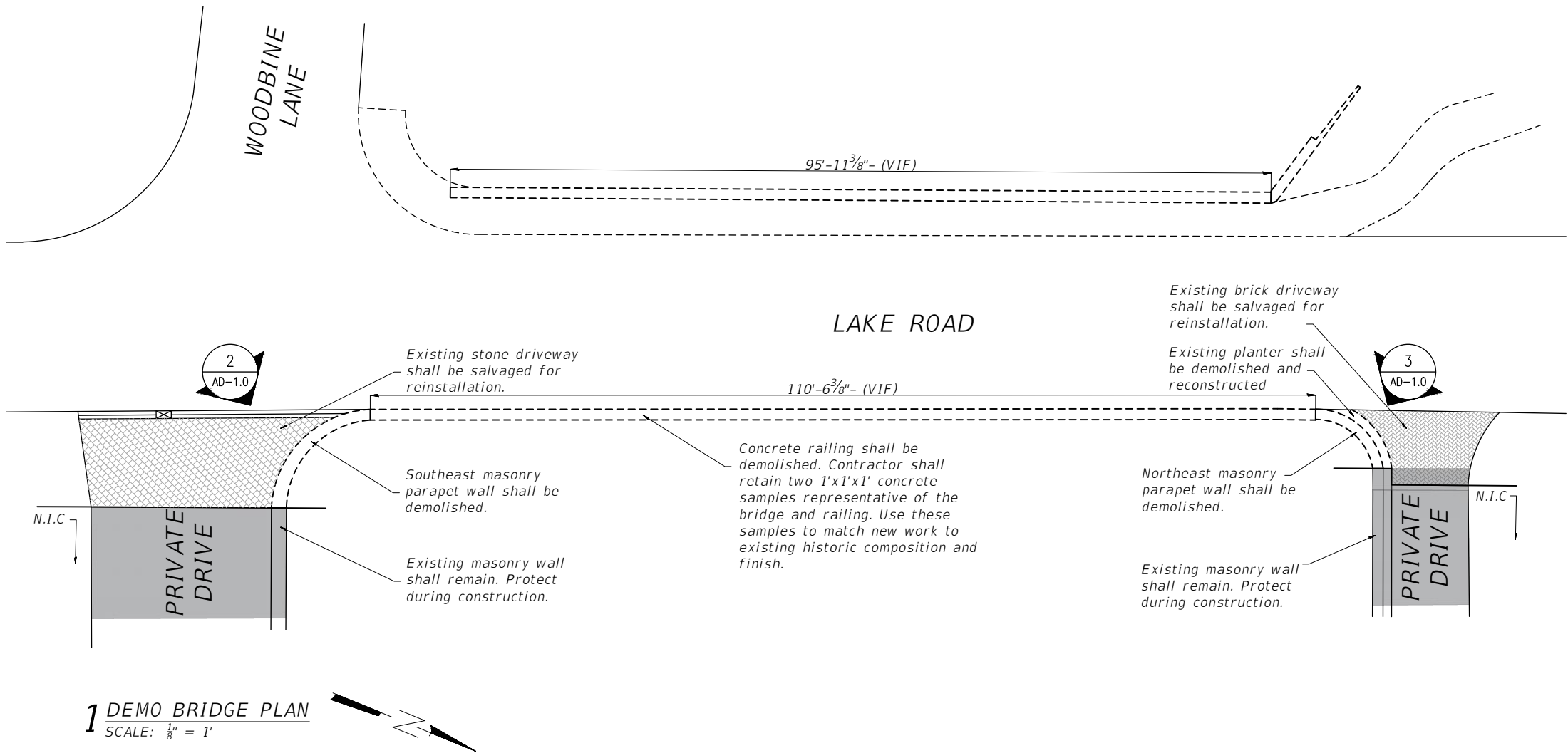
2 VIEW OF SE MASONRY WALL - LOCATION 2

- Demolish and replace bridge balustrade
- Demolish existing masonry wall including brick, substrate, foundation and footing
- Reconstruct existing privately-owned masonry wall in-kind to suit modified width of bridge structure
- Existing landscaping shall be demolished and reconstructed.
- Salvage and reinstall existing private driveway pavers. Assume 20% replacement of damaged pavers. Replacement pavers shall match existing pavers in dimensions, material and color.



3 VIEW OF NE MASONRY WALL - LOCATION 1

- GENERAL DEMOLITION NOTES:**
- Drawings represent the existing plan conditions diagrammatically. Exact locations, sizes, extent and conditions of the existing construction to be removed, salvaged or to remain shall be verified at the site by the contractor.
 - Contractor shall retain two 1' x1'x1' concrete samples representative of the bridge and railing. match new work to existing historic composition and finish.
 - Prior to demolition, contractor shall document drive way and parapet walls at the north and east ends of the bridge for reconstruction.
 - Contractor shall notify adjacent property owners before proceeding with the salvaging of brick drive way.
 - Demolish existing bridge and railing, see structural drawings.



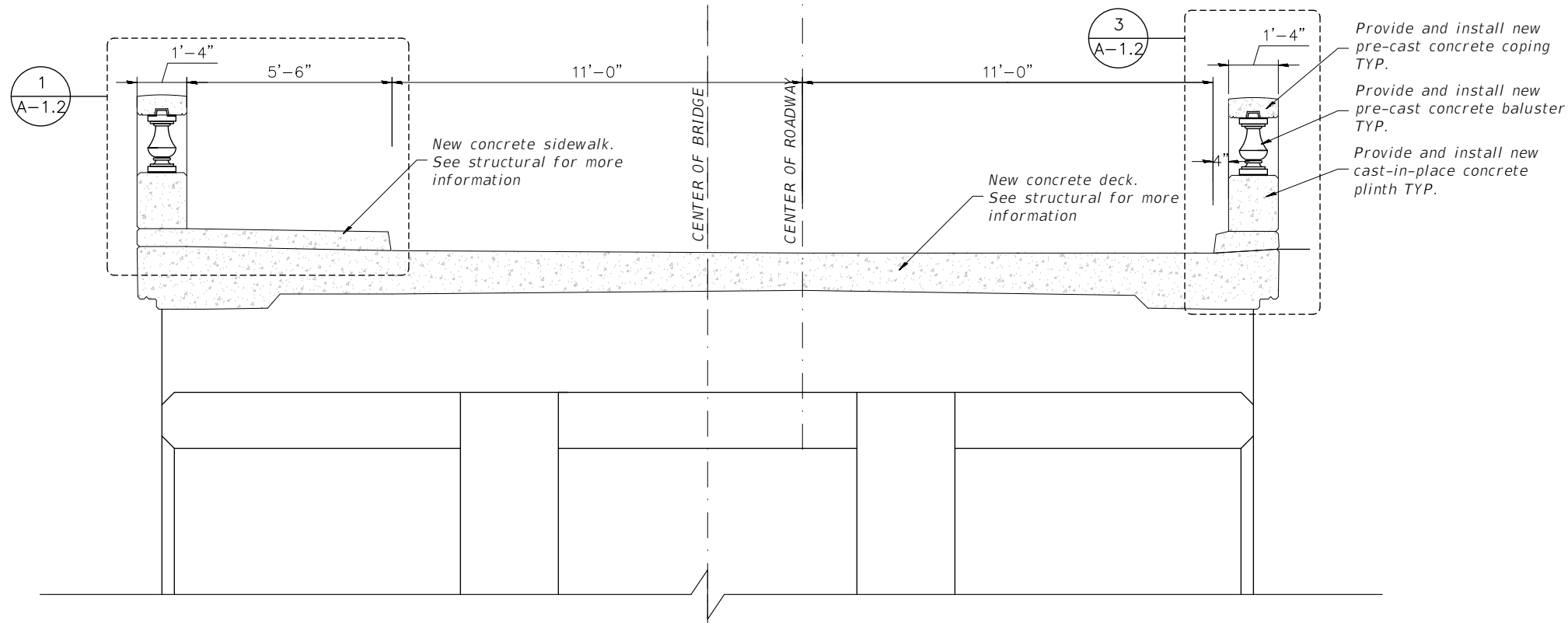
USER NAME	=	DESIGNED	- MK, TS	REVISED	-
PLOT SCALE	= AS SPECIFIED	CHECKED	- TS, SDT	REVISED	-
PLOT DATE	= 06/10/2024	DRAWN	- HB	REVISED	-
		DATE	- 06-10-2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

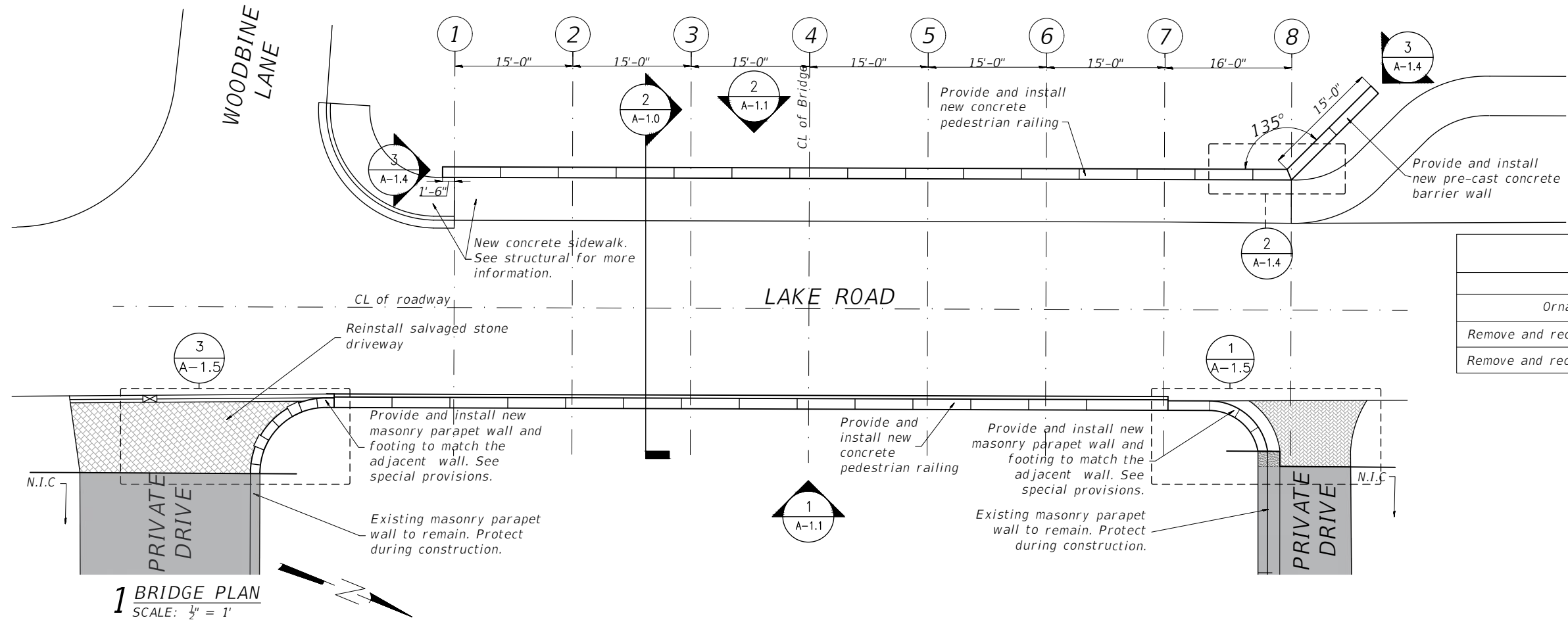
AD 1.0 - DEMO PLAN

SHEET AD 1.0 OF A-1.5 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00094-00-BR	LAKE	86	72
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



2 TYPICAL BRIDGE SECTION
SCALE: 1/2" = 1'



1 BRIDGE PLAN
SCALE: 1/2" = 1'

GENERAL CONSTRUCTION NOTES:

1. Drawings represent the existing plan conditions diagrammatically. Exact locations, sizes, extent and conditions of the existing construction to be removed, salvaged or to remain shall be verified at the site by the contractor.
2. Contractor shall retain two 1' x1'x1' concrete samples representative of the bridge and railing. match new work to existing historic composition and finish.
3. For dimensions see structural sheet 1.
4. Details shown are intended to be indicative of the profiles and type of detailing required for the work. Conditions not covered by specific details must meet specified design criteria.
5. Details shown may not necessarily graphically included all components necessary to complete the total system. The contractor shall be responsible to coordinate all of the requirements shown on the drawings with those stated in the applicable specifications and project notes to provide a complete system.
6. The contractor shall be responsible for construction means, methods, techniques, sequences, procedures and programs in connection with the work. All work shall meet the quality requirements noted in the contract documents.
7. All existing features to remain shall be protected during construction. All existing features to remain that is damaged by the work of this project shall be patched to match adjacent surfaces in finish, color, and texture unless otherwise indicated.
8. All reinforcement shown is for representation purposes only. See special provisions for more information.
9. See Special Provisions for structural design requirements for ornamental railing.
10. Coordinate with barrier wall details on structural plans.
11. Contractor is responsible for providing all necessary engineering for all pre-cast architectural concrete elements including reinforcing, support and anchoring components.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
Ornamental railing	LF	231
Remove and reconstruct wall - location 1	LF	13
Remove and reconstruct wall - location 2	LF	17

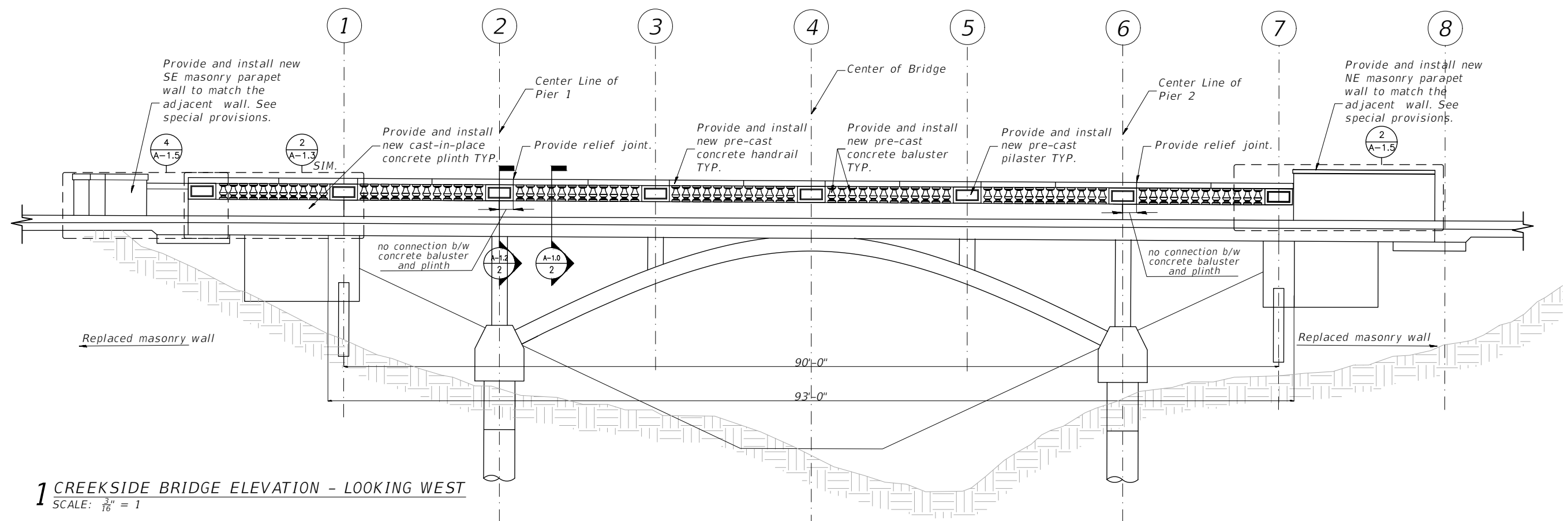
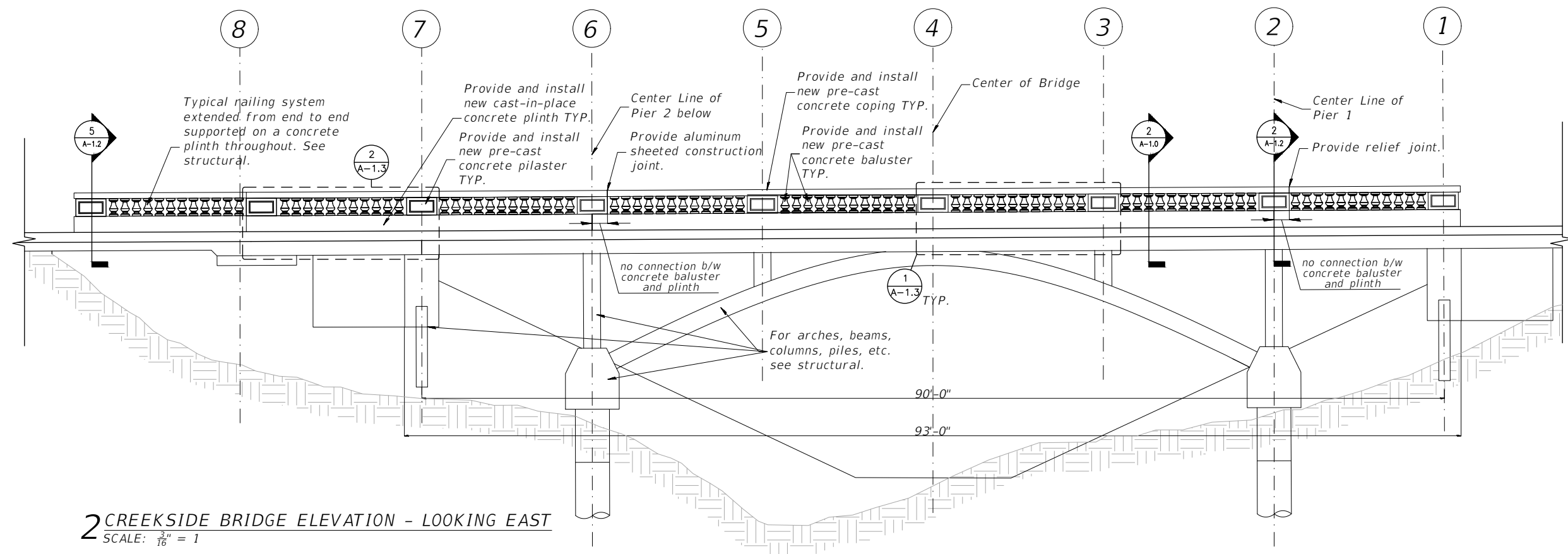


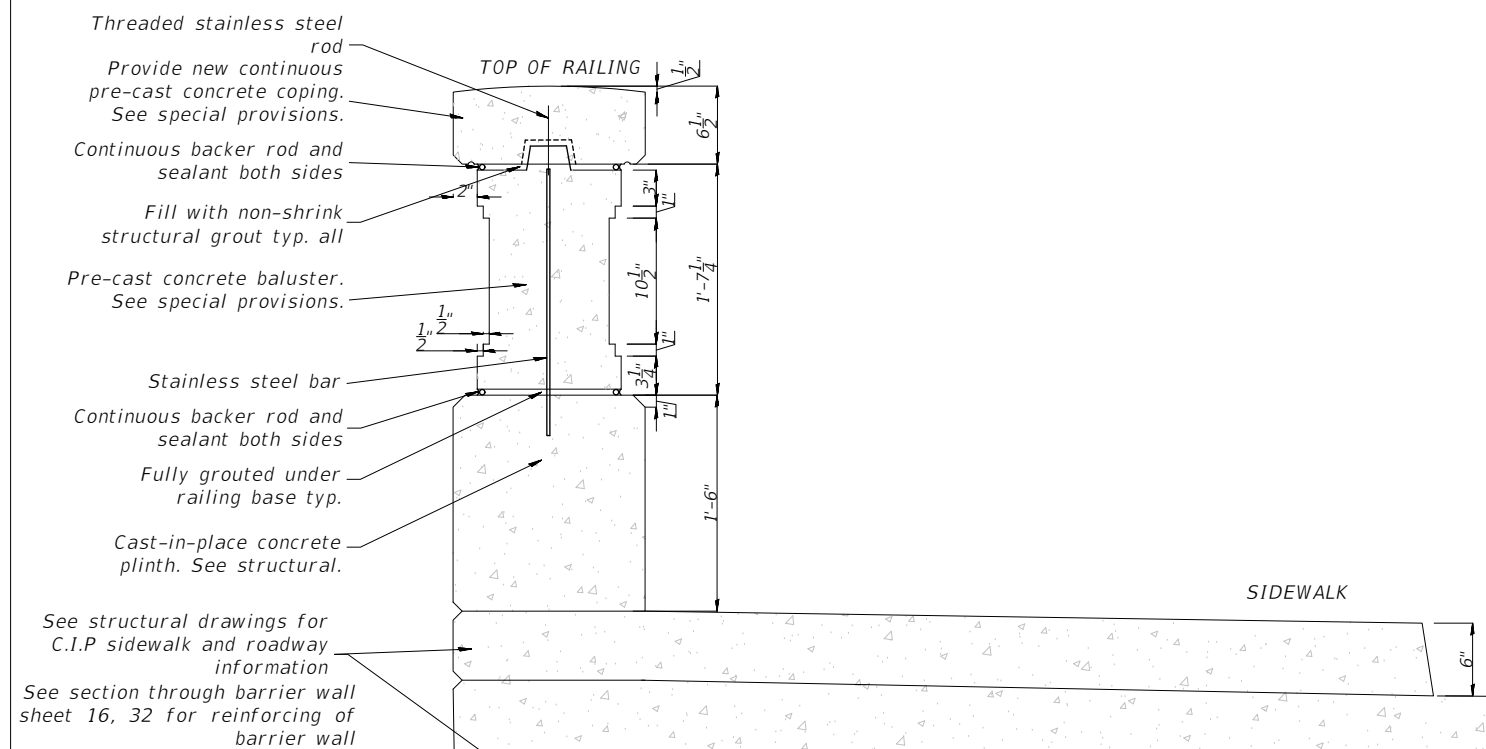
USER NAME	=	DESIGNED	- MK, TS	REVISED	-
PLOT SCALE	= AS SPECIFIED	CHECKED	- TS, SDT	REVISED	-
PLOT DATE	= 06/10/2024	DRAWN	- HB	REVISED	-
		DATE	- 06-10-2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

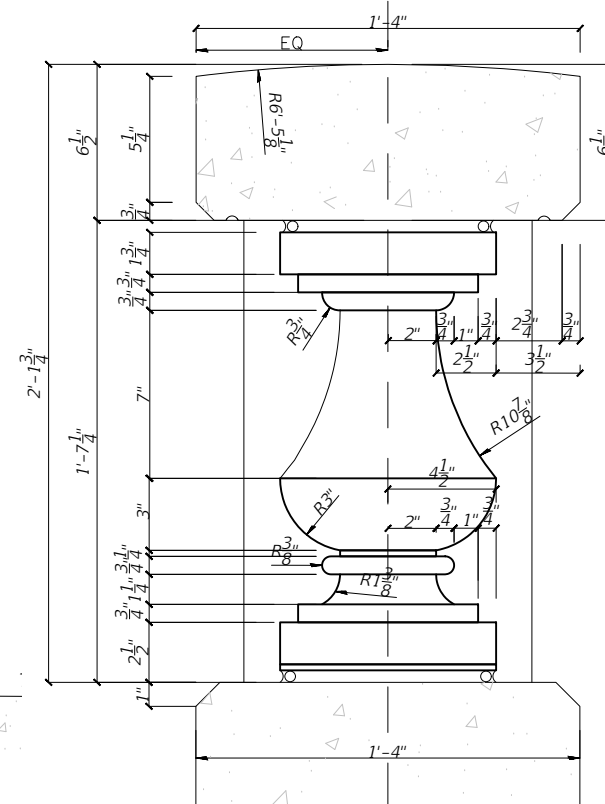
A1.0 -ARCHITECTURAL BRIDGE PLAN
AND SECTION
SHEET A1.0 OF A-1.5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00094-00-BR	LAKE	86	73
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

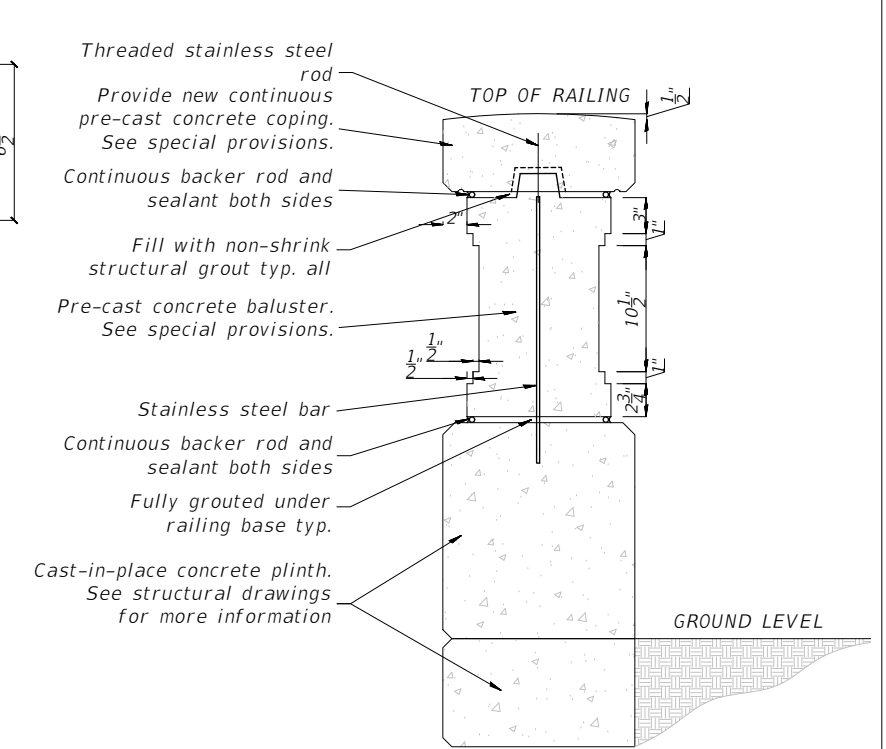




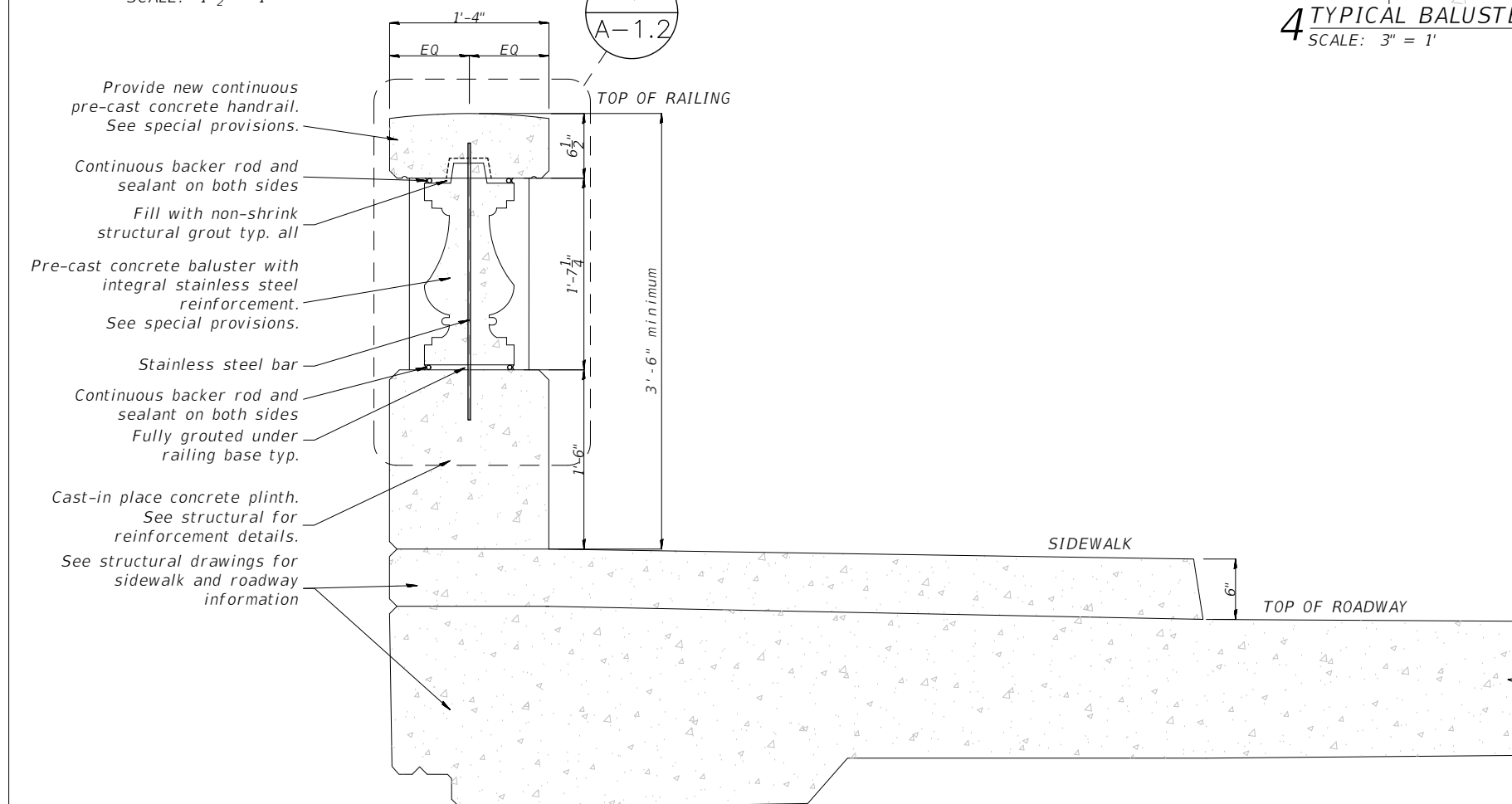
2 TYPICAL BRIDGE SECTION
SCALE: 1-1/2" = 1'



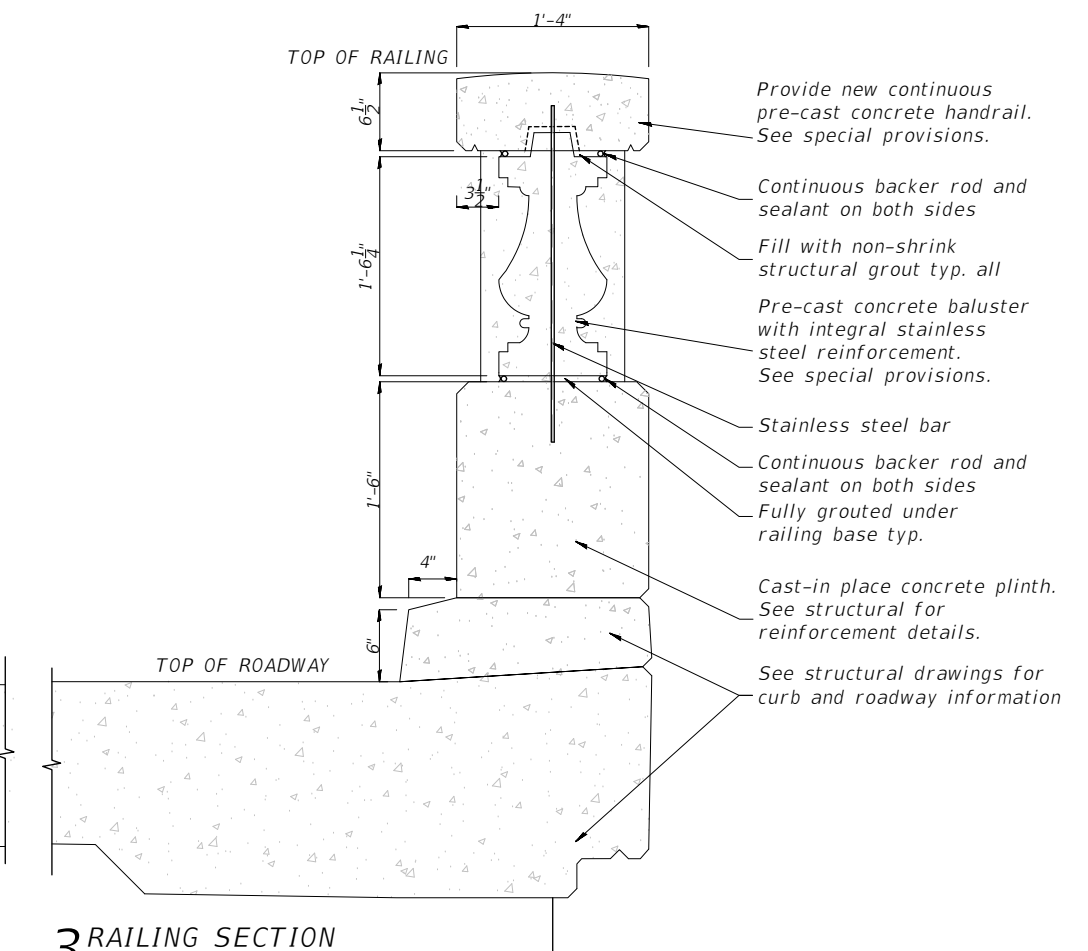
4 TYPICAL BALUSTER DETAIL
SCALE: 3" = 1'



5 SECTION THROUGH PARAPET WALL AT PILASTER
SCALE: 1-1/2" = 1'



1 RAILING SECTION
SCALE: 1-1/2" = 1'



3 RAILING SECTION
SCALE: 1-1/2" = 1'



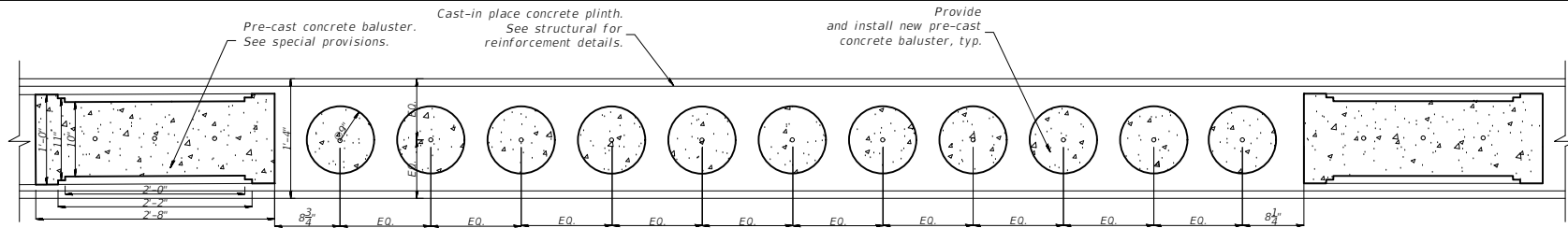
USER NAME	=	DESIGNED	- MK, TS	REVISED	-
PLOT SCALE	= AS SPECIFIED	CHECKED	- TS, SDT	REVISED	-
PLOT DATE	= 06/10/2024	DRAWN	- HB	REVISED	-
		DATE	- 06-10-2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

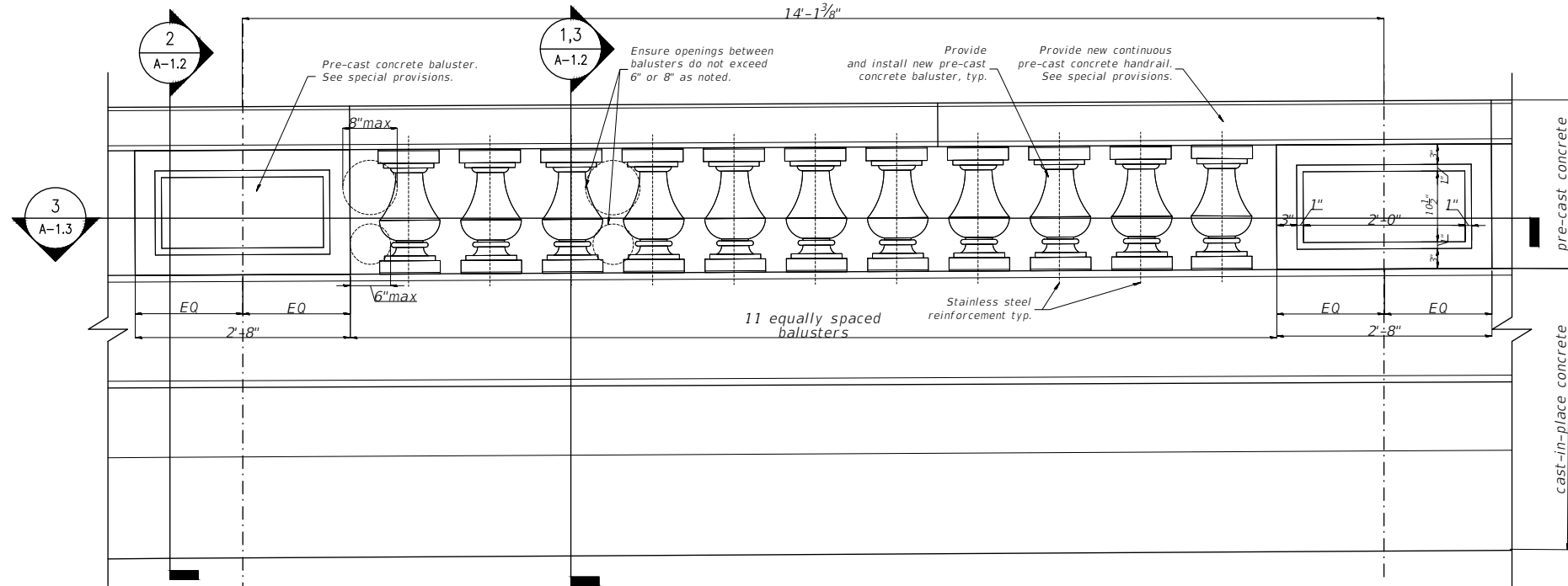
A1.2 - ORNAMENTAL RAILING DETAILS

SHEET A 1.2 OF A-1.5 SHEETS

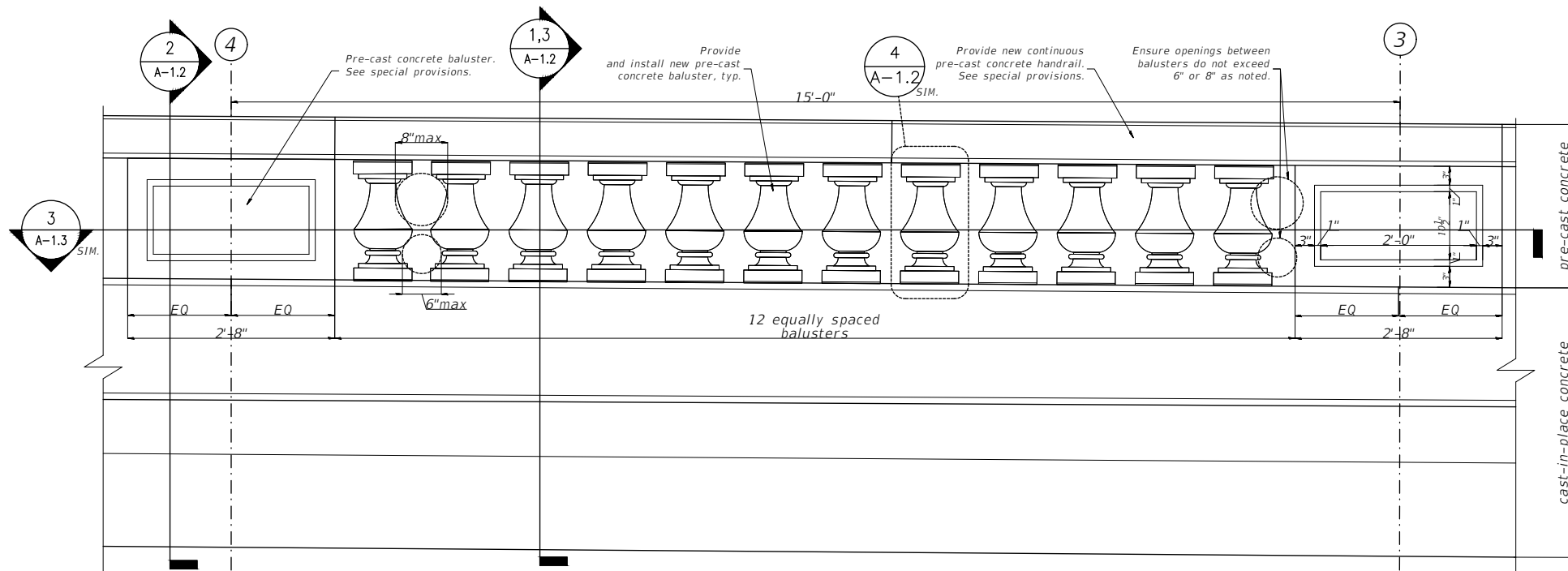
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00094-00-BR	LAKE	86	75
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



3 TYPICAL RAILING SECTION
SCALE: 1" = 1'



2 RAILING ELEVATION
SCALE: 1" = 1'



1 TYPICAL RAILING ELEVATION
SCALE: 1" = 1'

- GENERAL CONSTRUCTION NOTES:**
- Drawings represent the existing plan conditions are diagrammatically shown. Exact locations, sizes, extent and conditions of the existing construction to be removed, salvaged or to remain shall be verified at the site by the contractor.
 - Contractor shall retain two 1' x1'x1' concrete samples representative of the bridge and railing. match new work to existing historic composition and finish.
 - For dimensions see structural sheet 1.
 - Details shown are indicative of the profiles and type of detailing required for the work. Conditions are not covered by specific details and must meet specified design criteria.
 - Details shown may not necessarily graphically represent all components required to complete the total system. The contractor shall be responsible to coordinate all of the requirements shown on the drawings with those stated in the applicable specifications and project notes to provide a complete system.
 - The contractor shall be responsible for construction means, methods, techniques, sequences, procedures and programs in connection with the work. All work shall meet the quality requirements noted in the contract documents.
 - All existing features to remain shall be protected during construction. All existing features to remain which are damaged by the work of this project shall be patched to match adjacent surfaces in finish, color, and texture unless otherwise indicated.
 - All reinforcement shown is for representation purposes only. See special provisions for more information.
 - See Special Provisions for structural design requirements for ornamental railing.
 - Coordinate with barrier wall details on structural plans.
 - Contractor is responsible for providing all necessary engineering for all pre-cast architectural concrete elements including reinforcing, support and anchoring components.



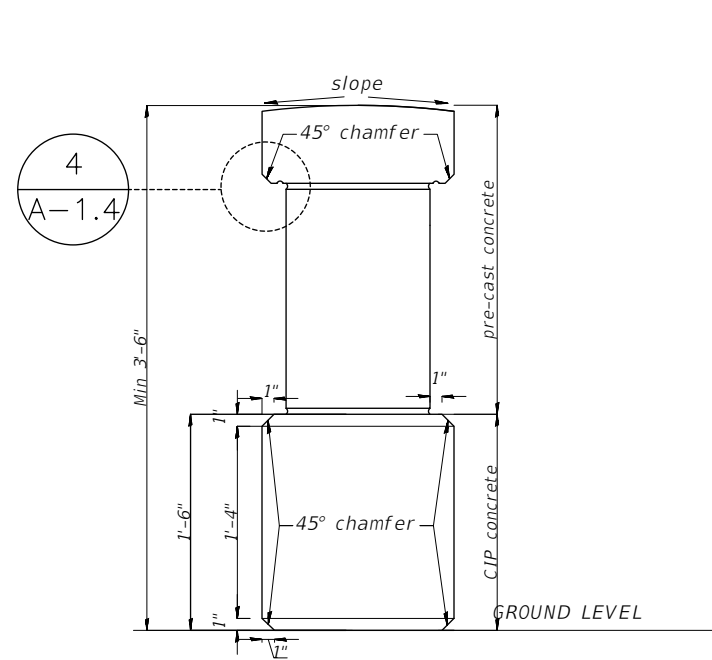
USER NAME	=	DESIGNED	- MK, TS	REVISED	-
PLOT SCALE	= AS SPECIFIED	CHECKED	- TS, SDT	REVISED	-
PLOT DATE	= 06/10/2024	DRAWN	- HB	REVISED	-
		DATE	- 06-10-2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

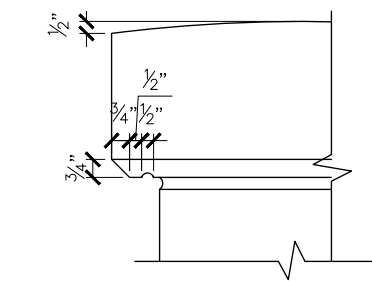
A1.3 - ORNAMENTAL RAILING DETAILS

SHEET A.1.3 OF A-1.5 SHEETS

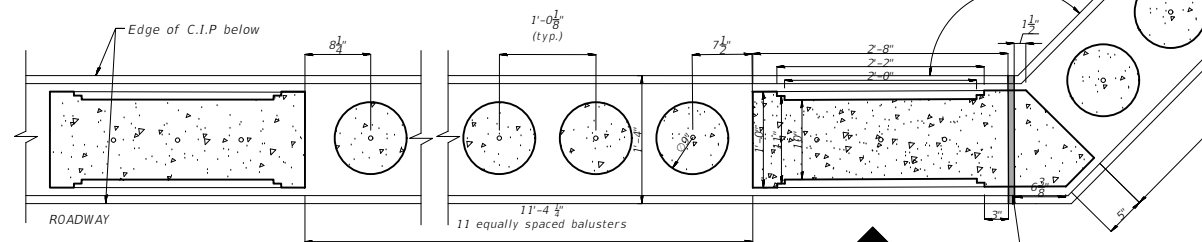
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00094-00-BR	LAKE	86	76
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



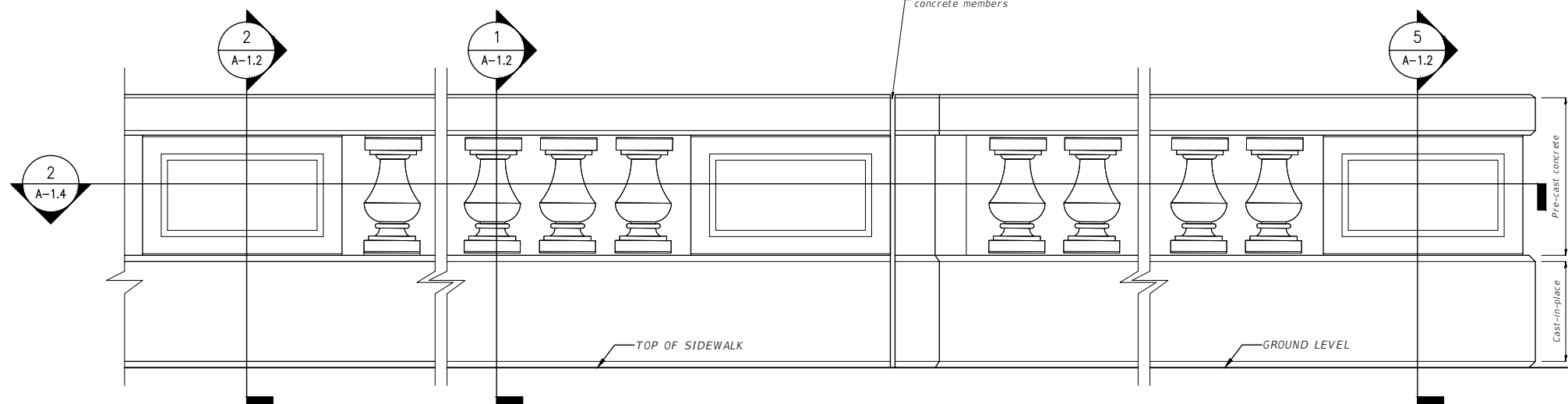
3 TERMINAL RAILING ELEVATION
SCALE: 1" = 1'



4 CONCRETE HANDRAIL DETAIL
SCALE: 3" = 1'



2 RAILING PLAN AT NW
SCALE: 1" = 1'



1 INTERIOR RAILING ELEVATION AT NE
SCALE: 1" = 1'

GENERAL CONSTRUCTION NOTES:

1. Drawings that represent the existing plan conditions are diagrammatically shown, exact locations, sizes, extent and conditions of the existing construction to be removed, salvaged or to remain shall be verified at the site by the contractor.
2. Contractor shall retain two 1' x1'x1' concrete samples representative of the bridge and railing. match new work to existing historic composition and finish.
3. For dimensions see structural sheet 1.
4. Details shown are intended to be indicative of the profiles and type of detailing required for the work. Conditions are not covered by specific details and must meet specified design criteria.
5. Details shown may not necessarily graphically represent all components necessary to complete the total system. The contractor shall be responsible to coordinate all of the requirements shown on the drawings with those stated in the applicable specifications and project notes to provide a complete system.
6. The contractor will be responsible for construction means, methods, techniques, sequences, procedures and programs in connection with the work. All work shall meet the quality requirements noted in the contract documents.
7. All existing features to remain shall be protected during construction. all existing features to remain damaged by the work of this project shall be patched to match adjacent surfaces in finish, color, and texture unless otherwise indicated.
8. All reinforcement shown is for representation purposes only. See special provisions for more information.
9. See Special Provisions for structural design requirements for ornamental railing.
10. Coordinate with barrier wall details on structural plans.
11. Contractor is responsible for providing all necessary engineering for all pre-cast architectural concrete elements including reinforcing, support and anchoring components.



USER NAME	=	DESIGNED	- MK, TS	REVISED	-
PLOT SCALE	= AS SPECIFIED	CHECKED	- TS, SDT	REVISED	-
PLOT DATE	= 06/10/2024	DRAWN	- HB	REVISED	-
		DATE	- 06-10-2024	REVISED	-

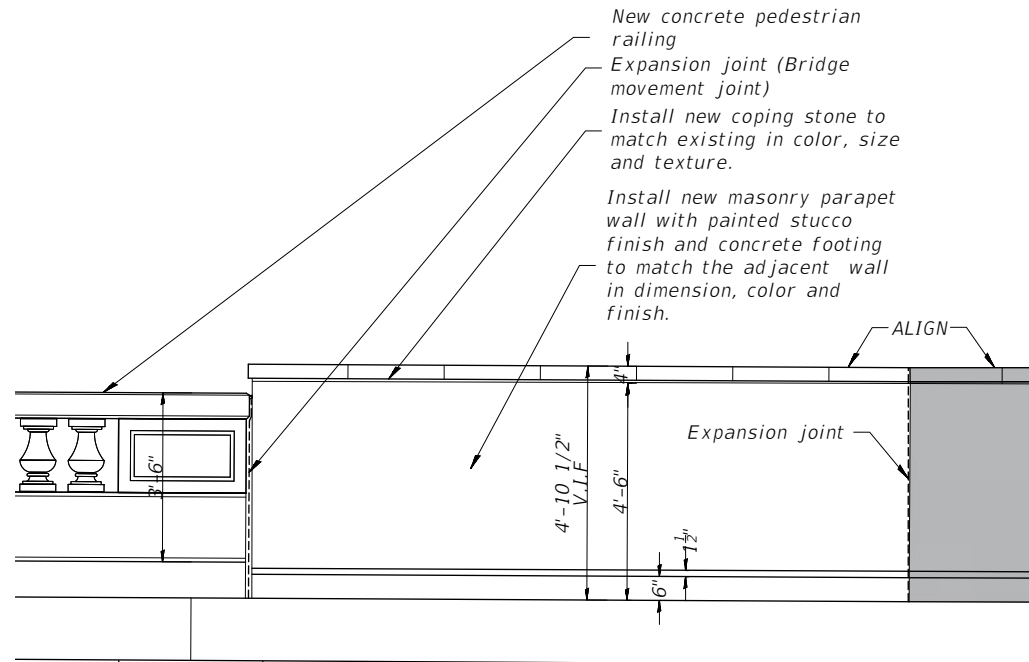
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

A1.4 - ORNAMENTAL RAILING DETAILS

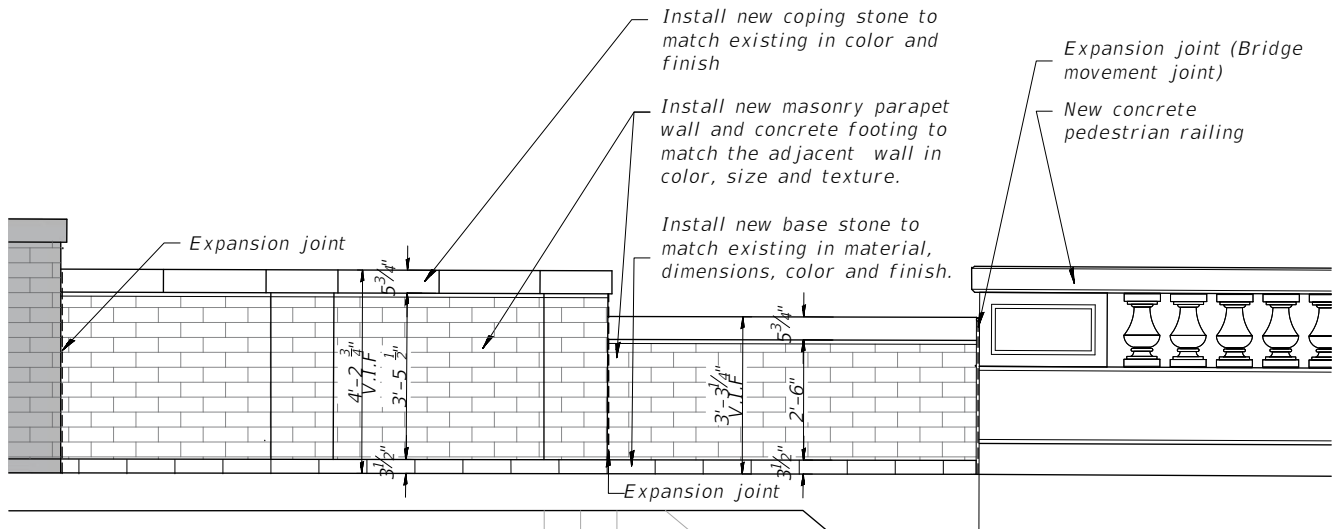
SHEET A1.4 OF A-1.5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00094-00-BR	LAKE	86	77
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

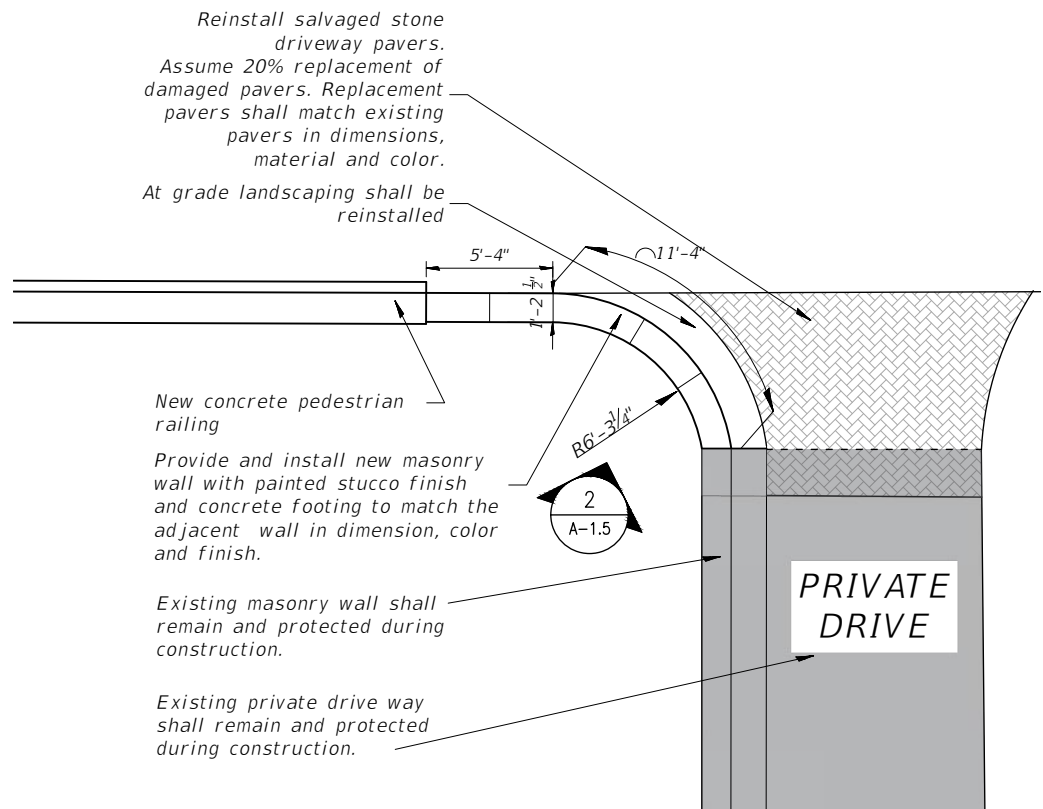
- GENERAL CONSTRUCTION NOTES:**
1. Drawings that represent the existing plan conditions are diagrammatically shown, exact locations, sizes, extent and conditions of the existing construction to be removed, salvaged or to remain shall be verified at the site by the contractor.
 2. Contractor shall retain two 1' x1'x1' concrete samples representative of the bridge and railing. match new work to existing historic composition and finish.
 3. For dimensions see structural sheet 1.
 4. Details shown are intended to be indicative of the profiles and type of detailing required for the work. Conditions are not covered by specific details and must meet specified design criteria.
 5. Details shown may not necessarily graphically represent all components necessary to complete the total system. The contractor shall be responsible to coordinate all of the requirements shown on the drawings with those stated in the applicable specifications and project notes to provide a complete system.
 6. The contractor will be responsible for construction means, methods, techniques, sequences, procedures and programs in connection with the work. All work shall meet the quality requirements noted in the contract documents.
 7. All existing features to remain shall be protected during construction. all existing features to remain damaged by the work of this project shall be patched to match adjacent surfaces in finish, color, and texture unless otherwise indicated.
 8. All reinforcement shown is for representation purposes only. See special provisions for more information.
 9. See Special Provisions for structural design requirements for ornamental railing.
 10. Coordinate with barrier wall details on structural plans.
 11. Contractor is responsible for providing all necessary engineering for all pre-cast architectural concrete elements including reinforcing, support and anchoring components.



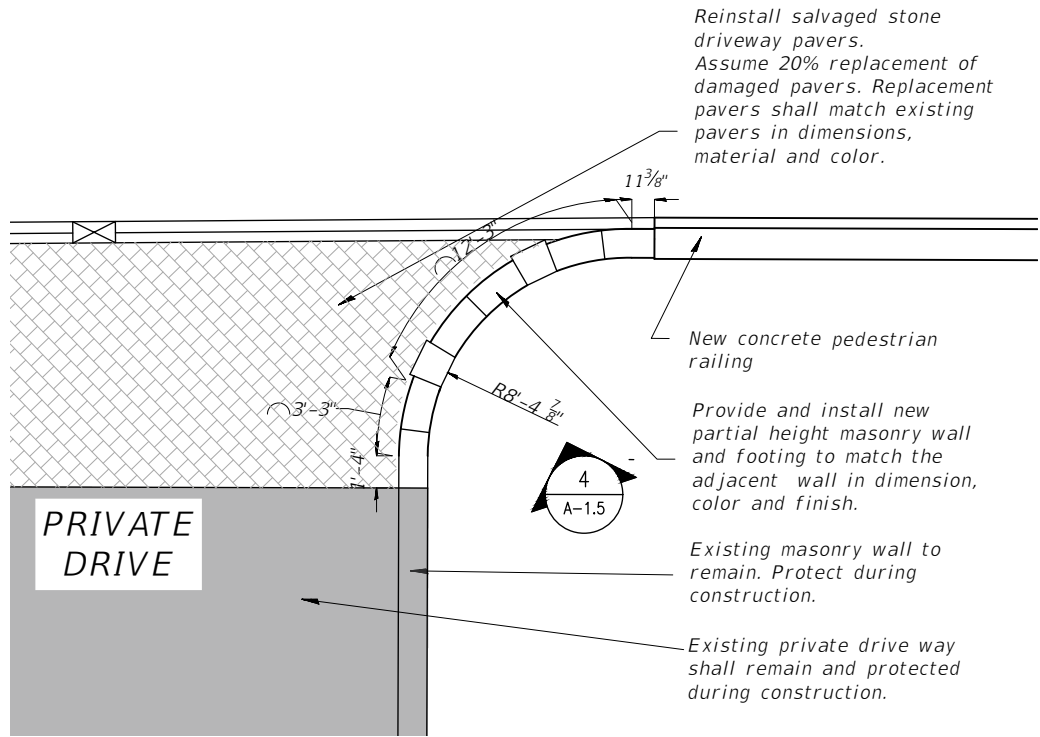
2 ELEVATION OF NORTHEAST PARAPET WALL - LOCATION 1
SCALE: $\frac{1}{2}'' = 1'$



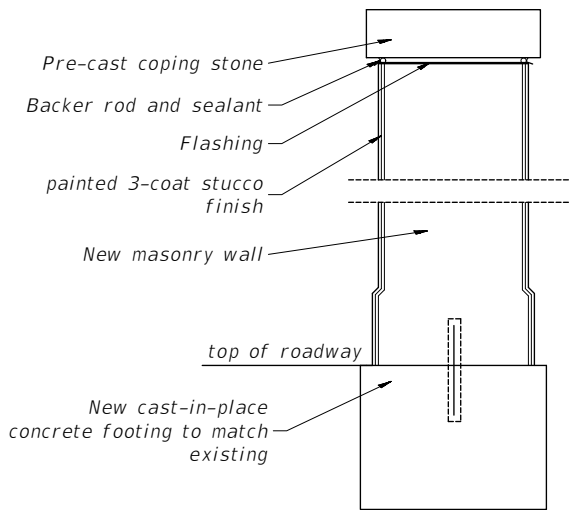
4 ELEVATION OF SOUTHEAST PARAPET WALL - LOCATION 2
SCALE: $\frac{1}{2}'' = 1'$



1 NEW WORK PLAN - NE PARAPET WALL - LOCATION 1
SCALE: $\frac{1}{4}'' = 1'$



3 NEW WORK PLAN - SE PARAPET WALL - LOCATION 2
SCALE: $\frac{1}{4}'' = 1'$



5 MASONRY WALL SECTION AT LOCATION 1
SCALE: $1\frac{1}{2}'' = 1'$



USER NAME	=	DESIGNED	- MK, TS	REVISED	-
PLOT SCALE	= AS SPECIFIED	CHECKED	- TS, SDT	REVISED	-
PLOT DATE	= 06/10/2024	DRAWN	- HB	REVISED	-
		DATE	- 06-10-2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

A1.5 - PARAPET WALL DETAILS

SHEET A1.5 OF A-1.5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00094-00-BR	LAKE	86	78
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



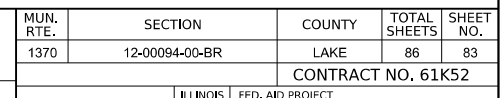
- ## STANDARD CURB SECTIONS

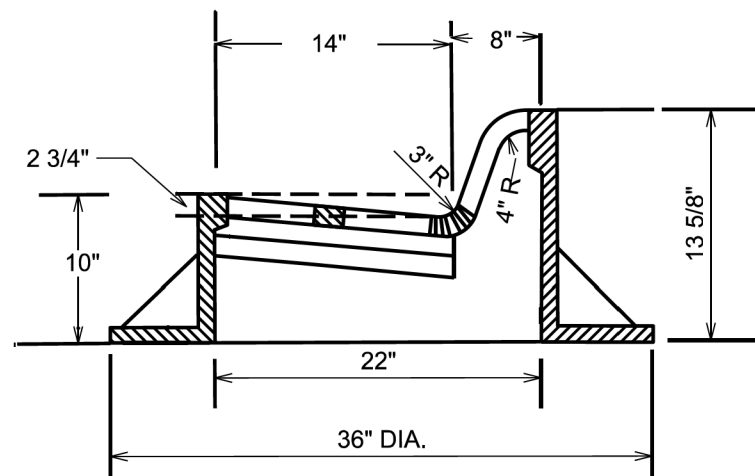
G:\Engineer\Standard Details\Standard Curb 2-06



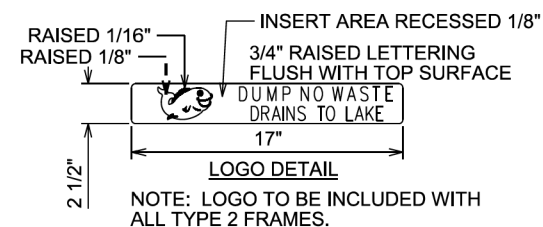
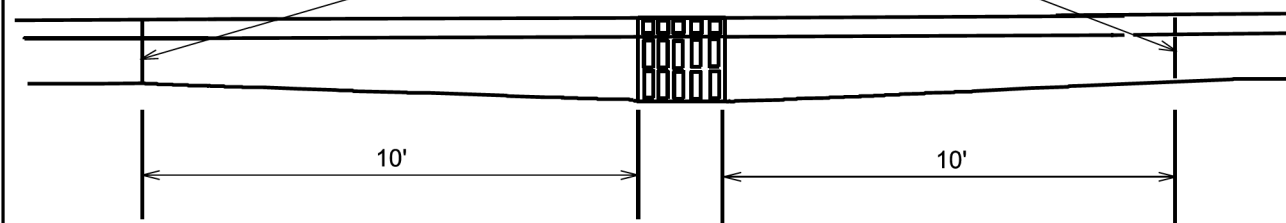
RESIDENTIAL DRIVE APPROACH

G:\Engineer\Standard Details\Drive Approach





PREFORMED EXPANSION JOINT



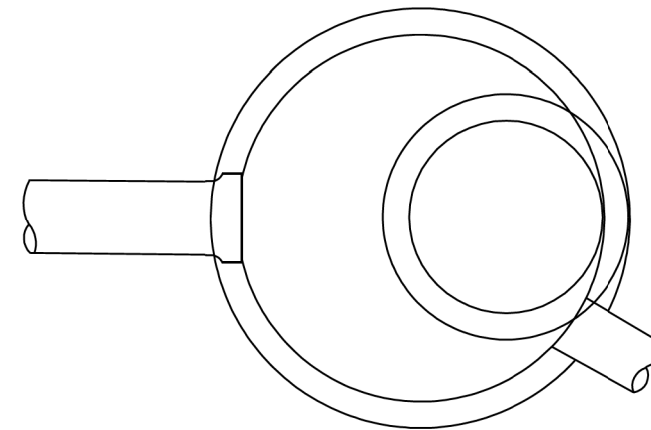
LAKE FOREST STANDARD 3.03
APPROVED BY : KMM
DATE : 2/7/2007

G:\Engineer\Standard Details\Curb Frame 3-03

Diagram illustrating the dimensions and components of a manhole structure:

- Top Section:** A sloped section with a horizontal width of 24" and a vertical height of 7' to top of curb.
- Inner Chamber:** A rectangular section with a width of 48" and a height of 36" TO 42".
- Bottom Section:** A rectangular section with a width of 48" and a height of 6".
- Labels:**
 - MIN. 10" D.I.P. (Minimum Depth of Inlet Pipe)
 - D/12 (Depth of Inlet Pipe)

ALL CATCH BASIN PARTS
TO BE PRECAST
CONCRETE CONFORMING
TO ASTM C-478 WITH
BITUMINOUS JOINTS,
THE REINFORCED CONC.
BASE SHALL BE INTEGRAL
WITH THE WALLS



CATCH BASIN TYPE A

LAKE FOREST STANDARD 3.06
APPROVED BY : KMM
DATE : 1/1/2006

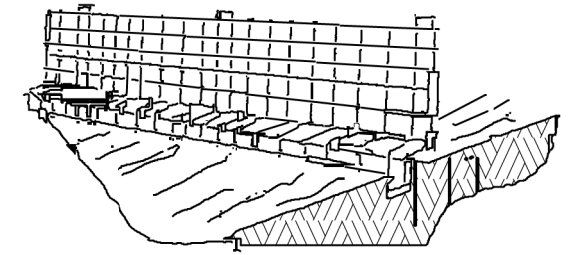
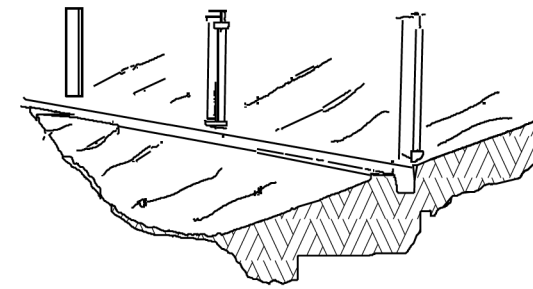
G:\Engineer\Standard Details\Catch Basin 3-06

Diagram illustrating a cross-section of a concrete structure. The structure consists of a central circular void (labeled D) surrounded by concrete. The concrete is labeled "ACTED BEDDING" and "ACTED CH FILL". The diameter of the void is labeled "D". The thickness of the concrete layer is indicated as "6\" and the minimum thickness of the concrete layer is labeled "D/8, 4\" MIN."

COMPACTED BEDDING SHALL BE CRUSHED GRANULAR
MATERIAL MEETING GRADATION CA-6

- ## STORM SEWER BEDDING DETAIL

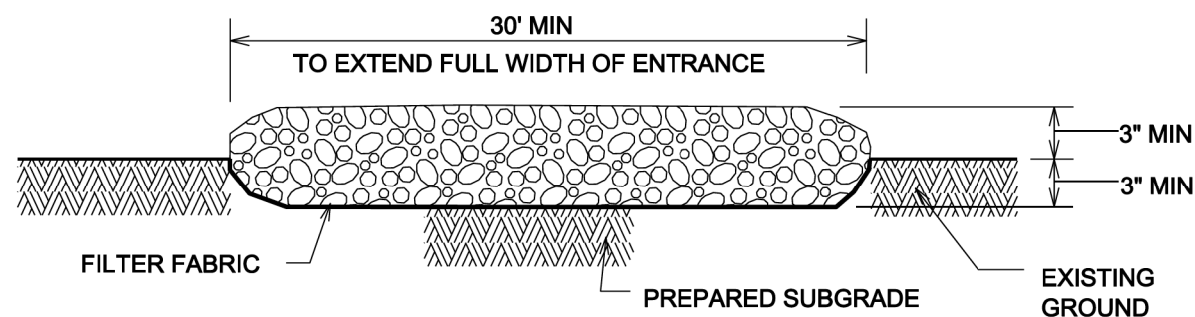
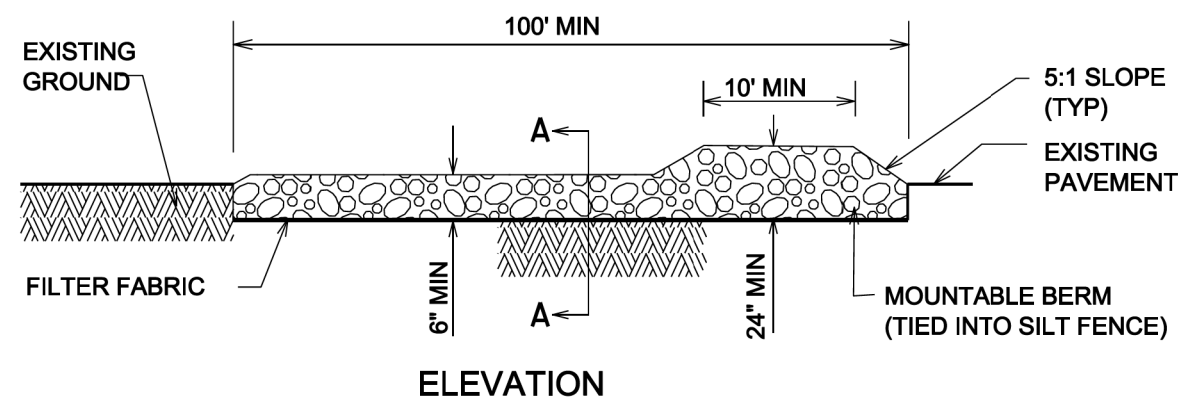
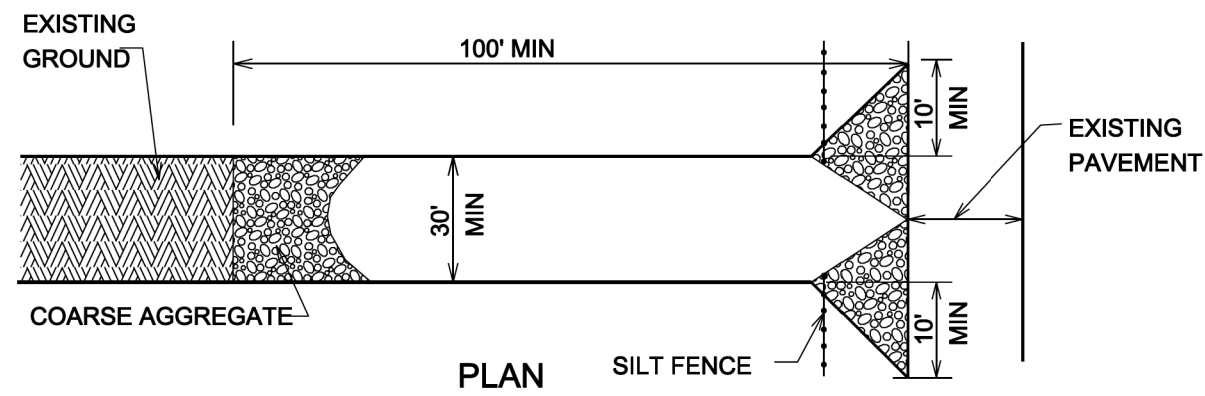
G:\Engineer\Standard Details\Bedding Storm Sewer 3-09



- NATURAL SOIL

SILT FENCE DETAIL

G:\Engineer\Standard Details\Silt Fence 11-02



NOTES:

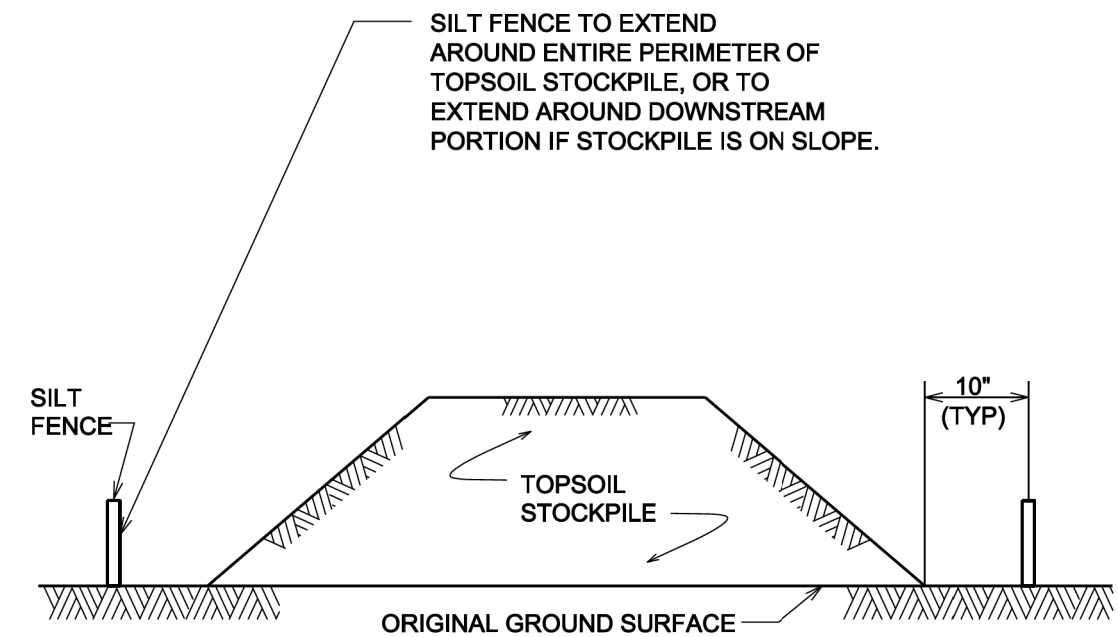
1. GEOTEXTILE FILTER FABRIC SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO PLACING COARSE AGGREGATE
2. COARSE AGGREGATE (OR CRUSHED CONCRETE) SHALL MEET IDOT GRADATION FOR CA-1 CRUSHED AGGREGATE.
3. STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED, PRIOR TO ONSET OF CONSTRUCTION OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT.
4. CONSTRUCTION ENTRANCE SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION AND ONLY WHEN DIRECTED BY THE CITY ENGINEER.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

LAKE FOREST STANDARD 11.03
APPROVED BY : KMM
DATE : 1/1/2006

G:\Engineer\ENGSTDS\Standard Details\... \Construction Entrance 11-03



NOTES:

1. AN ON-SITE DRAINAGE SWALE SHALL BE LOCATED BETWEEN THE TOPSOIL STOCKPILE AND OFF-SITE PROPERTY.
2. REFERENCE IS MADE TO THE SILT FENCE DETAIL FOR MATERIALS AND INSTALLATION METHODS.
3. IF THE STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, IT SHALL BE STABILIZED WITH BURLAP MATTING OR SEEDED WITHIN 7 DAYS OF COMPLETION TO MINIMIZE EROSION.
4. INSPECTION OF SILT FENCES SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF 1/2". REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. SEDIMENT TRAPPED BY THE FENCES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.
6. SILT FENCES SHALL BE MAINTAINED IN PLACE UNTIL TOPSOIL STOCKPILE HAS BEEN ELIMINATED AND SHALL BE REMOVED ONLY WHEN DIRECTED BY THE CITY ENGINEER.

TEMPORARY TOPSOIL STOCKPILE

NOT TO SCALE

LAKE FOREST STANDARD 11.04
APPROVED BY : KMM
DATE : 1/1/2006

G:\Engineer\ENGSTDS\Standard Details\... \Topsoil Stockpile 11-04