

04-28-2023 LETTING ITEM 082

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	1
3000		ILLINOIS	CONTRACT NO. 61J43	

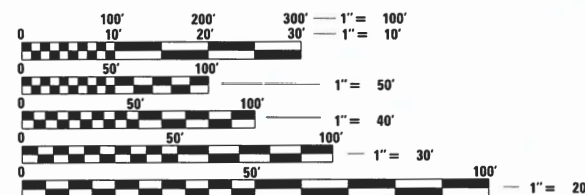
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

MUN ROUTE 4070 & 3000 (PARKVIEW DR & PALMER AVE)
OVER ADDISON CREEK
BRIDGE REHABILITATIONS
SECTION NO.: 20-00098-00-BR
PROJECT NO.: JUC2(911)
CITY OF NORTHLAKE
COOK COUNTY
C-91-003-23

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF STATE STANDARDS, SEE SHEET NO. 2

DESIGN DESIGNATION: LOCAL ROAD OR STREET
PARKVIEW DRIVE
2022 AADT = 2000
2032 AADT = 2032
DESIGN SPEED = 30 MPH
POSTED SPEED = 25 MPH

DESIGN DESIGNATION: LOCAL ROAD OR STREET
PALMER AVENUE
2018 AADT = 125
2032 AADT = 318
DESIGN SPEED = 30 MPH
POSTED SPEED = 25 MPH



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

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

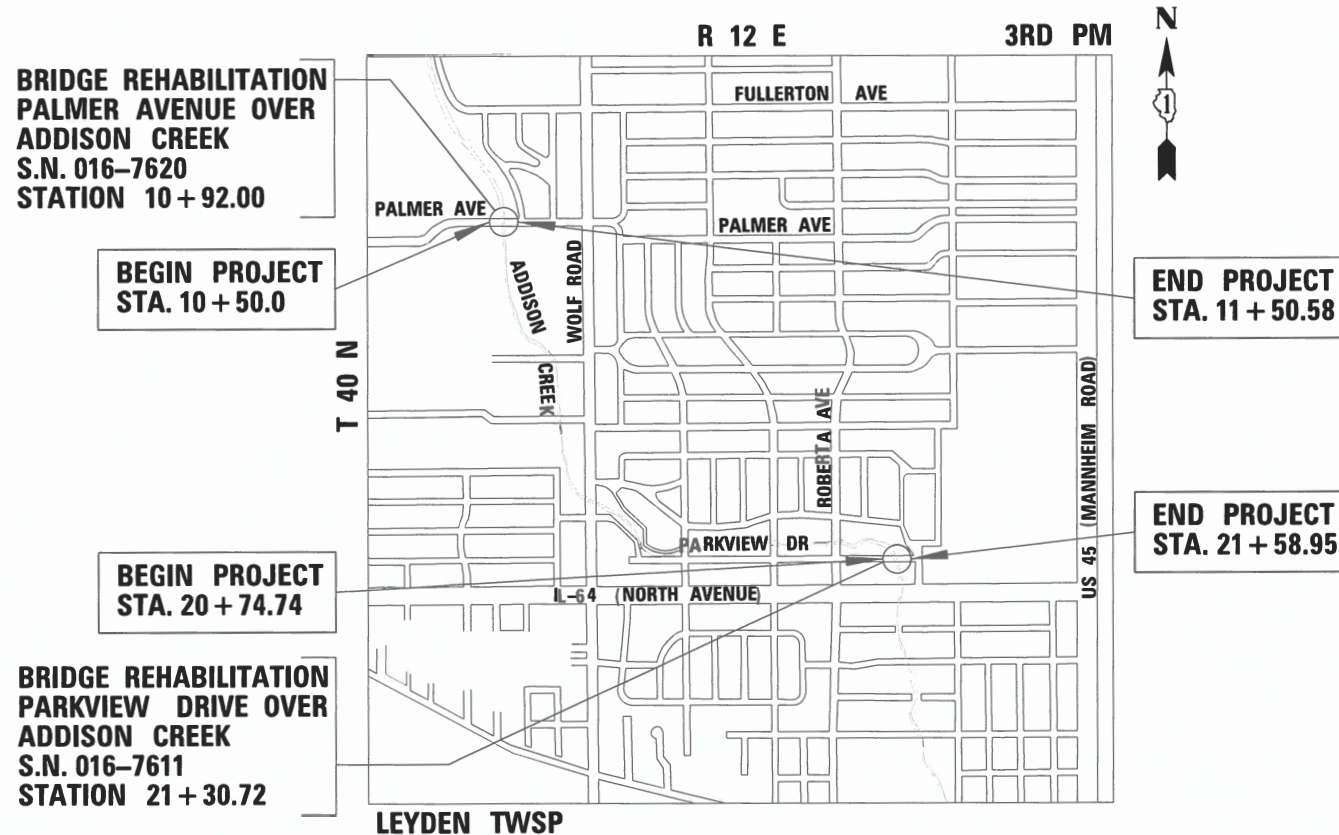
PROJECT MANAGER: MARK WRZESZCZ (847) 823-0500

CB CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

PROFESSIONAL DESIGN FIRM NO. 184-00175
EXPIRATION DATE: APRIL 30, 2023

CONTRACT NO. 61J43

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



LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 281.65 FT. = 0.053 MILE
NET LENGTH = 281.62 FT. = 0.053 MILE



M. Mobasseri 2/15/23
M. MOBASSERI
ILLINOIS REGISTRATION No. 081-005058 STRUCTURAL ENGINEER
EXPIRATION DATE: 11/30/23



LOCATION OF SECTION INDICATED THUS: -



Jason G. Souden 02/15/2023
PROFESSIONAL ENGINEER DATE
JASON SOUDEN
ILLINOIS REGISTRATION No. 062-050850
EXPIRATION DATE: 11/30/2023

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	02/14/2023
<i>Jeffrey T. Shelwin</i> CITY OF NORTHLAKE, MAYOR	
PASSED	FEB 29 2023 <i>T. Souden</i>
RELEASING FOR BID BASED ON LIMITED REVIEW	FEBRUARY 23 2023 <i>Jason Souden</i> REGIONAL ENGINEER

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OF THE STATE OF ILLINOIS

SPECIAL PROVISION	SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY (80% Federal 20% Local)	ROADWAY 0004 URBAN	BRIDGE 0013	TRAINEES 0042
	*	20101100	TREE TRUNK PROTECTION	EACH	2	2		
	*	20101200	TREE ROOT PRUNING	EACH	2	2		
	*	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	2	2		
		20200100	EARTH EXCAVATION	CU YD	65	65		
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	25	25		
		20300100	CHANNEL EXCAVATION	CU YD	220		220	
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	405	405		
		21101615	TOPSCIL FURNISH AND PLACE, 4"	SQ YD	250	250		
		25200110	SODDING, SALT TOLERANT	SQ YD	250	250		
		25200200	SUPPLEMENTAL WATERING	UNIT	1	1		
		25000312	SEEDING, CLASS 4A	ACRE	0.25	0.25		
		28000250	TEMPCRARY EROSION CONTROL SEEDING	POUND	25	25		
		28000400	PERIMETER EROSION BARRIER	FOOT	325	325		
		28000510	INLET FILTERS	EACH	6	6		
		28001100	TEMPCRARY EROSION CONTROL BLANKET	SQ YD	250	250		
		28100107	STONE RIPRAP, CLASS A4	SQ YD	190		190	
		28100109	STONE RIPRAP, CLASS A5	SQ YD	135		135	
		28200200	FILTER FABRIC	SQ YD	325		325	
Δ		30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	14	14		
Δ		30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	210	210		

* SPECIALTY ITEMS
Δ SPECIAL PROVISION

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PLOT SCALE = 1'	CHECKED -	REVISED -
PLOT DATE = 3/13/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070 3000	20-00098-00-BR	COOK	48	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61143	

SPECIAL PROVISION	SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY (80% Federal 20% Local)	ROADWAY 0004 URBAN	BRIDGE 0013	TRAINEES 0042
		35800100	PREPARATION OF BASE	SQ YD	830	830		
		35800200	AGGREGATE BASE REPAIR	TON	8	8		
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	320	320		
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	72	72		
		40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	8	8		
		40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	44	44		
		42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	155		155	
		42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	24	24		
		44000100	PAVEMENT REMOVAL	SQ YD	250	250		
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	35	35		
		44003100	MEDIAN REMOVAL	SQ FT	155	155		
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	300	300		
		44000600	SIDEWALK REMOVAL	SQ FT	550	550		
		44200099	PAVEMENT PATCHING, TYPE III, 8 INCH	SQ YD	20	20		
		50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	2		2	
		50102400	CONCRETE REMOVAL	CU YD	41.8		41.8	
		50200100	STRUCTURE EXCAVATION	CU YD	200		200	
		50300225	CONCRETE STRUCTURES	CU YD	70.7		70.7	
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	94.1		94.1	
		50300260	BRIDGE DECK GROOVING	SQ YD	220		220	

* SPECIALTY ITEMS
 Δ SPECIAL PROVISION

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	4
3000			CONTRACT NO. 61J43	
		ILLINOIS	FED. AID PROJECT	

SPECIAL PROVISION	SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY (80% Federal 20% Local)	ROADWAY 0004 URBAN	BRIDGE 0013	TRAINEES 0042
		50300300	PROTECTIVE COAT	SQ YD	409		409	
		50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	125.2		125.2	
		50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	2398		2398	
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	56700		56700	
	*	50900105	ALUMINUM RAILING, TYPE L	FOOT	130		130	
		51500100	NAME PLATES	EACH	2		2	
		58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	192		192	
		58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	197		197	
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	38		38	
		60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	140		140	
		60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	110	110		
		63200310	GUARDRAIL REMOVAL	FOOT	178		178	
	*	66400105	CHAIN LINK FENCE, 4'	FOOT	60		60	
Δ	*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	250		250	
Δ	*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2		2	
Δ	*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1		1	
Δ	*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1		1	
Δ		66901006	REGULATED SUBSTANCES MONITORING	CAL DA	60		60	
		67100100	MOBILIZATION	L SUM	1		1	
	*	72000100	SIGN PANEL - TYPE 1	SQ FT	36		36	

* SPECIALTY ITEMS
Δ SPECIAL PROVISION

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070 3000	20-00098-00-BR	COOK	48	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61143	

SPECIAL PROVISION	SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY (80% Federal 20% Local)	ROADWAY 0004 URBAN	BRIDGE 0013	TRAINEES 0042
	*	72900100	METAL POST - TYPE A	FOOT	20		20	
	*	81100400	CONDUIT, ATTACHED TO STRUCTURE GALVANIZED STEEL, 1 1/4" DIA	FOOT	70		70	
	*	81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	200		200	
	*	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	800		800	
Δ	*	X8430100	REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE	FOOT	70		70	
	*	89502300	REMOVE ELECTRICAL CABLE FROM CONDUIT	FOOT	350		350	
Δ		X1700034	FORM LINER TEXTURED SURFACE, SPECIAL	SQ FT	914		914	
Δ		X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	125		125	
Δ		X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	550	550		
Δ		X6640300	CHAIN LINK FENCE REMOVAL	FOOT	60		60	
Δ		X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1	
Δ	*	X8130120	RELOCATE EXISTING JUNCTION BOX	EACH	2		2	
Δ	*	XX006834	ELECTRICAL CONNECTION TO EXISTING LIGHTING SYSTEM	EACH	2		2	
Δ		XX009048	CURB AND GUTTER (SPECIAL)	FOOT	125	125		
Δ		Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1	
Δ	*	Z0033024	MAINTAIN EXISTING LIGHTING SYSTEM	L SUM	1	1		
Δ		XX009569	PRESS BREAK FORMED STEEL TUB GIRDER (PBFSTG) SYSTEM	SQ FT	1360		1360	
Δ		Z0076600	TRAINEES	HOOR	500			500
Δ		Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOOR	500			500

* SPECIALTY ITEMS
Δ SPECIAL PROVISION

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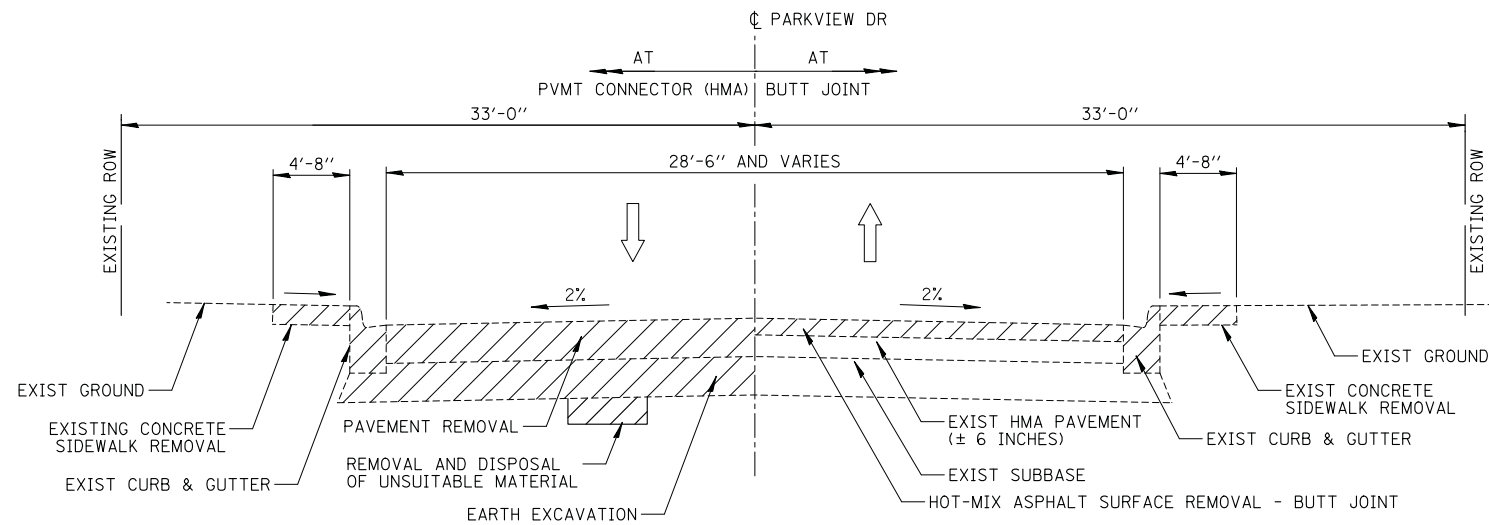
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

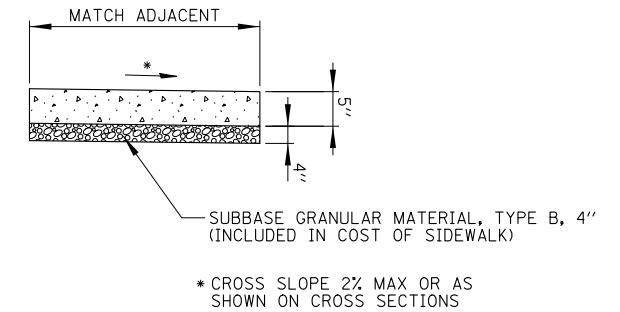
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070 3000	20-00098-00-BR	COOK	48	6
			CONTRACT NO. 61143	
			ILLINOIS FED. AID PROJECT	



EXISTING TYPICAL SECTION

PARKVIEW DRIVE
 STA. 20+74.74 TO 21+94.90
 BRIDGE OMISSION (STA. 21+01.87 TO STA. 21+58.95)
 SCALE: N.T.S.

NOTE:
 SEE STRUCTURAL PLAN SHEETS FOR BRIDGE SECTION

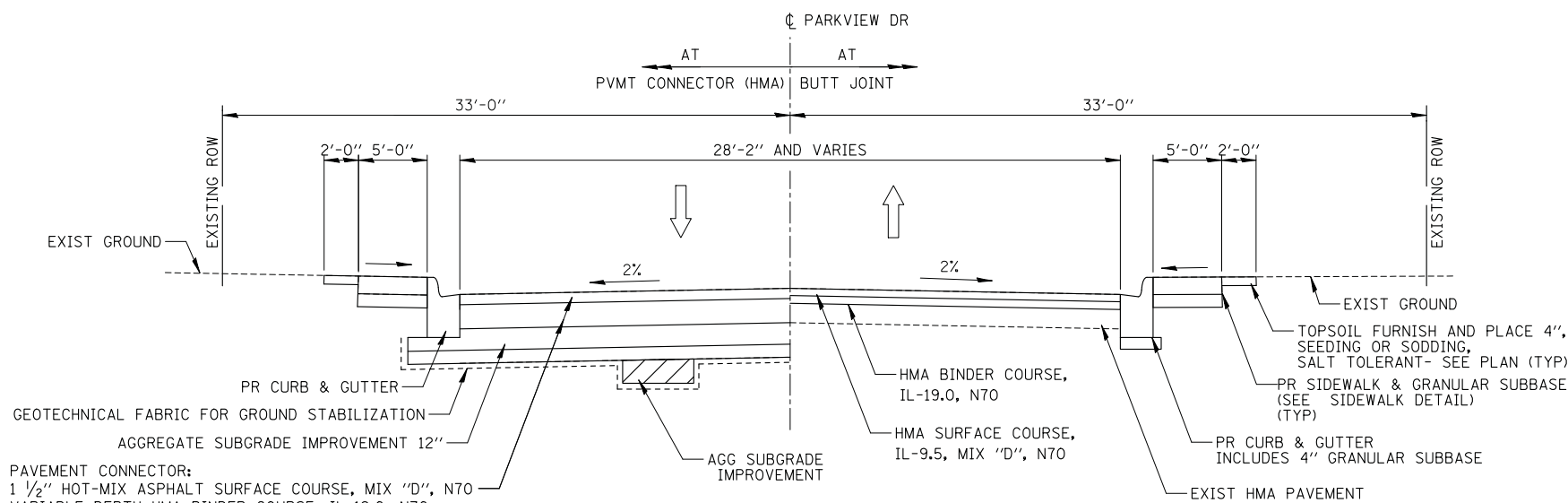


P.C.C. SIDEWALK 5 INCH, SPECIAL
 NOT TO SCALE

NOTE:
 ALL REQUIRED EARTH EXCAVATION TO CONSTRUCT P.C.C. SIDEWALK SHALL BE INCLUDED IN THE COST OF P.C.C. SIDEWALK 5 INCH, SPECIAL.

NOTE:

1. THE EXISTING PAVEMENT SECTIONS CONSISTS OF VARIABLE DEPTH HMA.
2. CONTRACTOR SHALL REMOVE AND REPLACE ANY UNSUITABLE MATERIAL UNDER SIDEWALK, CURB AND GUTTER REPLACEMENT AND PAVEMENT PATCHING LOCATIONS AS DIRECTED BY THE ENGINEER. REPLACEMENT OF UNSUITABLE MATERIAL WITH STONE BACK FILLING SHALL BE PAID FOR AS AGGREGATE BASE REPAIR.
3. LOCATIONS OF PREPARATION OF BASE AND AGGREGATE BASE REPAIR SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. AGGREGATE BASE REPAIR SHALL BE SUBBASE GRANULAR MATERIAL, TYPE B.
4. CONTRACTOR SHALL MILL PAVEMENT BEFORE PATCHING.
5. THE HMA COURSE THICKNESSES FOR PAVEMENT CONNECTOR AND BUTT JOINT SHALL BE DETERMINED BY HWY STD 420401 AND D-1 DETAIL BD-32



PROPOSED TYPICAL SECTION

PARKVIEW DRIVE
 STA. 20+74.74 TO 21+94.90
 BRIDGE OMISSION (STA. 21+01.87 TO STA. 21+58.95)
 SCALE: N.T.S.

- NOTE:
1. SEE STRUCTURAL PLAN SHEETS FOR BRIDGE SECTION
 2. DO NOT PLACE GEO TECHNICAL FABRIC FOR GROUND STABILIZATION UNLESS DETERMINED TO BE NECESSARY TO ACHIEVE STABILITY BY THE ENGINEER.
 3. THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12 $\frac{1}{2}$ LOWER LIFT SHALL BE CS 1 OR RR 1.

HOT - MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VIODS (%) @ Ndes	QMP
PAVEMENT CONNECTOR:		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 1.5"	4% @ 70 GYR	LR 1030-2
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (VARIABLE DEPTH)	4% @ 70 GYR	LR 1030-2
BUTT JOINT:		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 1.5"	4% @ 70 GYR	LR 1030-2
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 2.25" MINIMUM	4% @ 70 GYR	LR 1030-2
HMA WEARING SURFACE:		
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL 9.5mm)	4% @ 70 GYR	LR 1030-2
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR 1030-2		
NOTES:		
1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE QUANTITIES IS 112 LB/SQ TD/IN.		
2. 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 RECLAIMED MATERIALS SPECIFICATION.		

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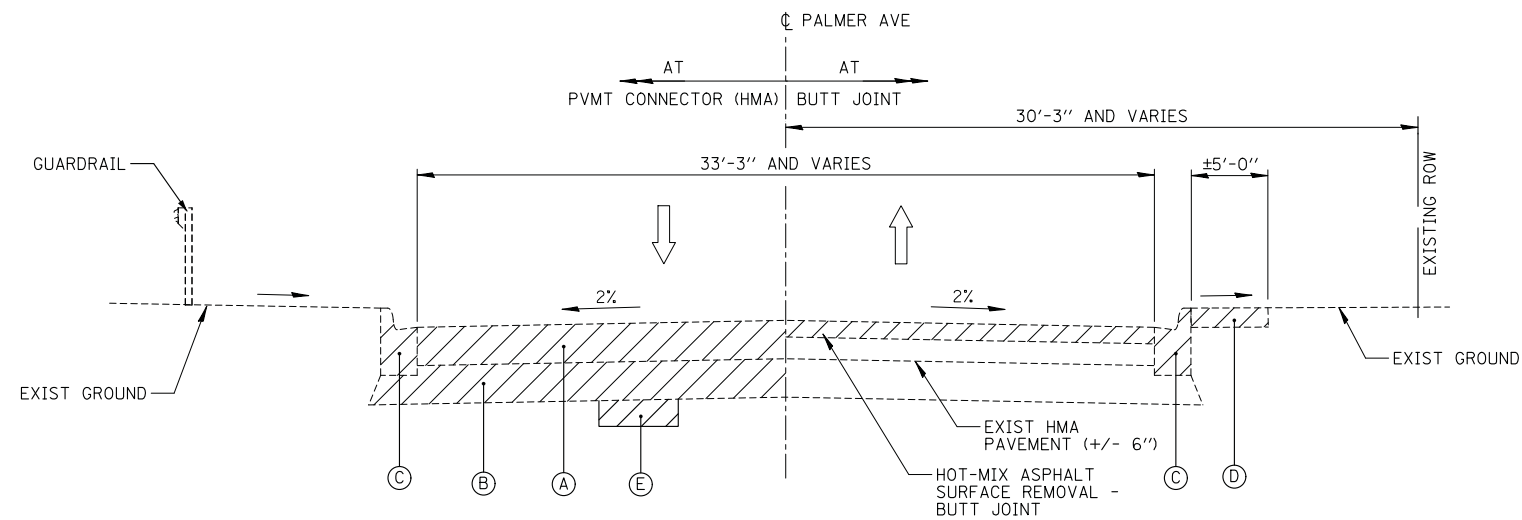
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PLOT DATE = 2/21/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
 PARKVIEW DRIVE**

SCALE: SHEET OF SHEETS STA. TO STA.

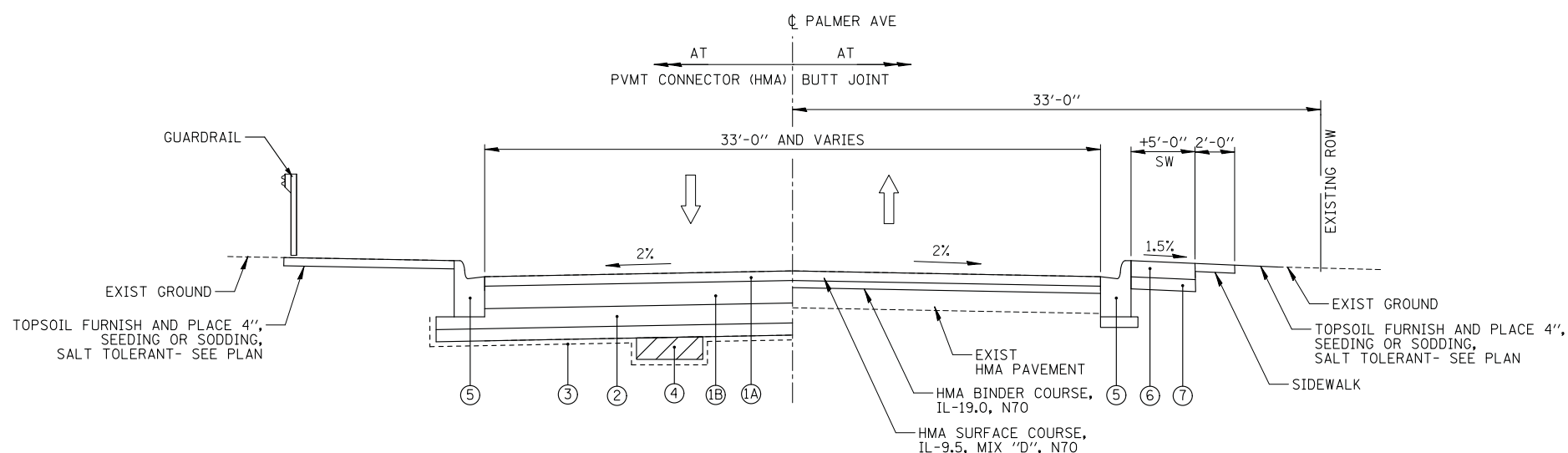
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070 3000	20-00098-00-BR	COOK	48	7
CONTRACT NO. 61J43				
ILLINOIS		FED. AID PROJECT		



EXISTING TYPICAL SECTION

PALMER AVENUE
 STA. 10+50.0 TO 11+50.58
 BRIDGE OMISSION: 10+75.0 TO 11+09.0
 SCALE: N.T.S.

NOTE:
 SEE STRUCTURAL PLAN SHEETS FOR TYPICAL
 APPROACH SLAB AND BRIDGE SECTIONS



PROPOSED TYPICAL SECTION

PALMER AVENUE
 STA. 10+50.0 TO 11+50.58
 BRIDGE OMISSION: 10+75.0 TO 11+09.0
 SCALE: N.T.S.

NOTE:
 1. SEE STRUCTURAL PLAN SHEETS FOR TYPICAL
 APPROACH SLAB AND BRIDGE SECTIONS.

PROPOSED LEGEND

- ① PAVEMENT CONNECTOR (HMA):
 - ①A 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
 - ①B VARIABLE DEPTH HMA BINDER COURSE, IL-19.0, N70
- ② AGGREGATE SUBGRADE IMPROVEMENT 12"
- ③ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ④ AGGREGATE SUBGRADE IMPROVEMENT (SHALL BE DETERMINED BY ENGINEER IN THE FIELD)
- ⑤ CONCRETE CURB AND GUTTER (SPECIAL) (INCLUDES 4" GRANULAR SUBBASE)
- ⑥ PCC SIDEWALK 5", SPECIAL
- ⑦ AGGREGATE BASE COURSE, TYPE B 4" (INCLUDED IN THE COST OF PCC SIDEWALK 5", SPECIAL) (SEE PROPOSED SIDEWALK DETAIL ON TYPICAL SECTIONS PARKVIEW DR SHEET)

EXISTING LEGEND

- Ⓐ PAVEMENT REMOVAL
- Ⓑ EARTH EXCAVATION
- Ⓒ COMBINATION CURB AND GUTTER REMOVAL
- Ⓓ SIDEWALK REMOVAL
- Ⓔ REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SHALL BE DETERMINED BY ENGINEER IN THE FIELD)

2. DO NOT PLACE GEOTECHNICAL FABRIC FOR GROUND STABILIZATION UNLESS DETERMINED TO BE NECESSARY TO ACHIEVE STABILITY BY THE ENGINEER.

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

4. SEE TYPICAL SECTIONS PARKVIEW DRIVE SHEET FOR PROPOSED SIDEWALK DETAIL.

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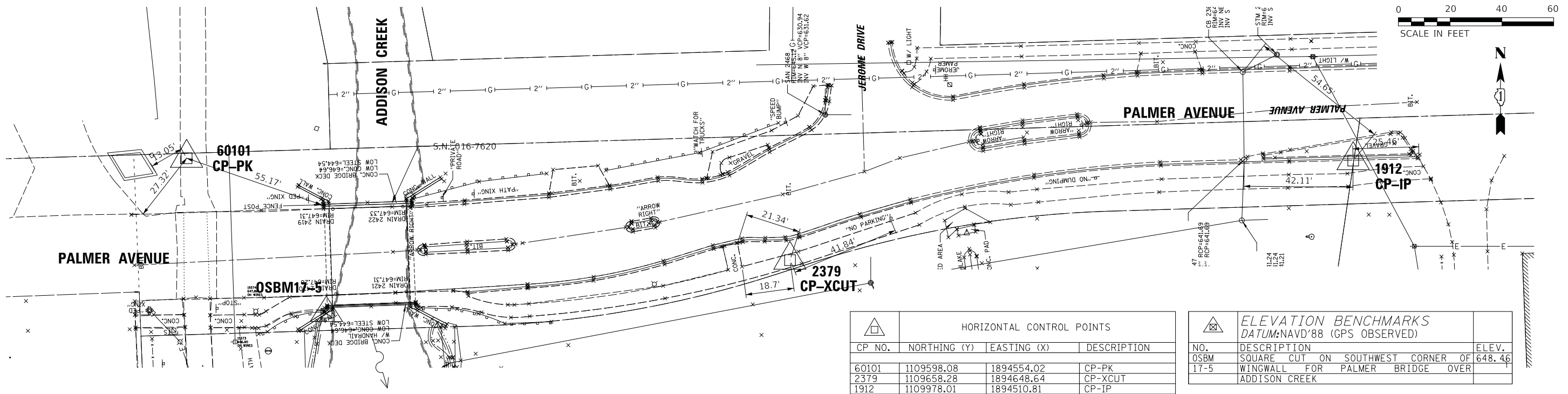
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**STATE OF ILLINOIS
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**TYPICAL SECTIONS
 PALMER AVENUE**

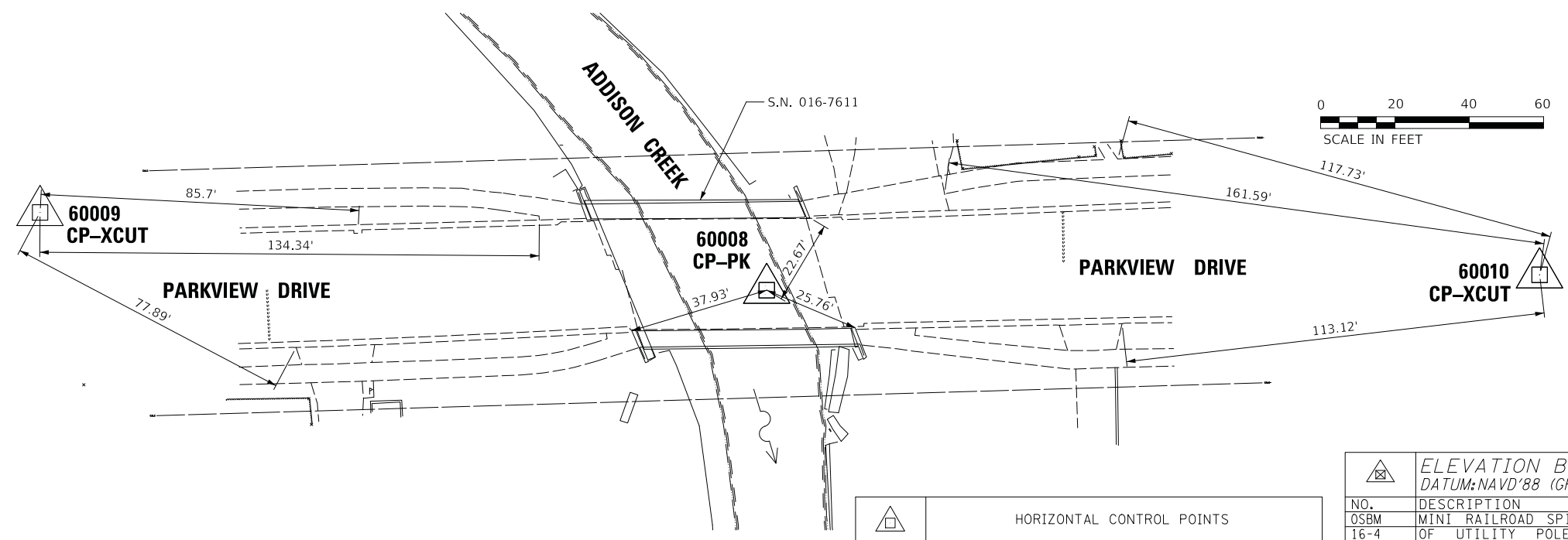
SCALE: SHEET OF SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070 3000	20-00098-00-BR	COOK	48	8
			CONTRACT NO. 61J43	
		ILLINOIS FED. AID PROJECT		



HORIZONTAL CONTROL POINTS			
CP NO.	NORTHING (Y)	EASTING (X)	DESCRIPTION
60101	1109598.08	1894554.02	CP-PK
2379	1109658.28	1894648.64	CP-XCUT
1912	1109978.01	1894510.81	CP-IP

ELEVATION BENCHMARKS DATUM: NAVD'88 (GPS OBSERVED)		
NO.	DESCRIPTION	ELEV.
OSBM 17-5	SQUARE CUT ON SOUTHWEST CORNER OF WINGWALL FOR PALMER BRIDGE OVER ADDISON CREEK	648.46



HORIZONTAL CONTROL POINTS			
CP NO.	NORTHING (Y)	EASTING (X)	DESCRIPTION
60009	1109653.05	1894494.07	CP-XCUT
60008	1109847.23	1894550.67	CP-PK
60010	1109885.08	1894509.73	CP-XCUT

ELEVATION BENCHMARKS DATUM: NAVD'88 (GPS OBSERVED)		
NO.	DESCRIPTION	ELEV.
OSBM 16-4	MINI RAILROAD SPIKE ON THE WEST FACE OF UTILITY POLE ON THE NORTHEAST CORNER OF NORTH AVENUE & EDWARDS AVENUE	642.13
OSBM 21-10	NORTHEAST FLANGE BOLT OF HYDRANT AT THE NORTHWEST CORNER OF PARK VIEW AVENUE & EDWARDS AVENUE	640.18

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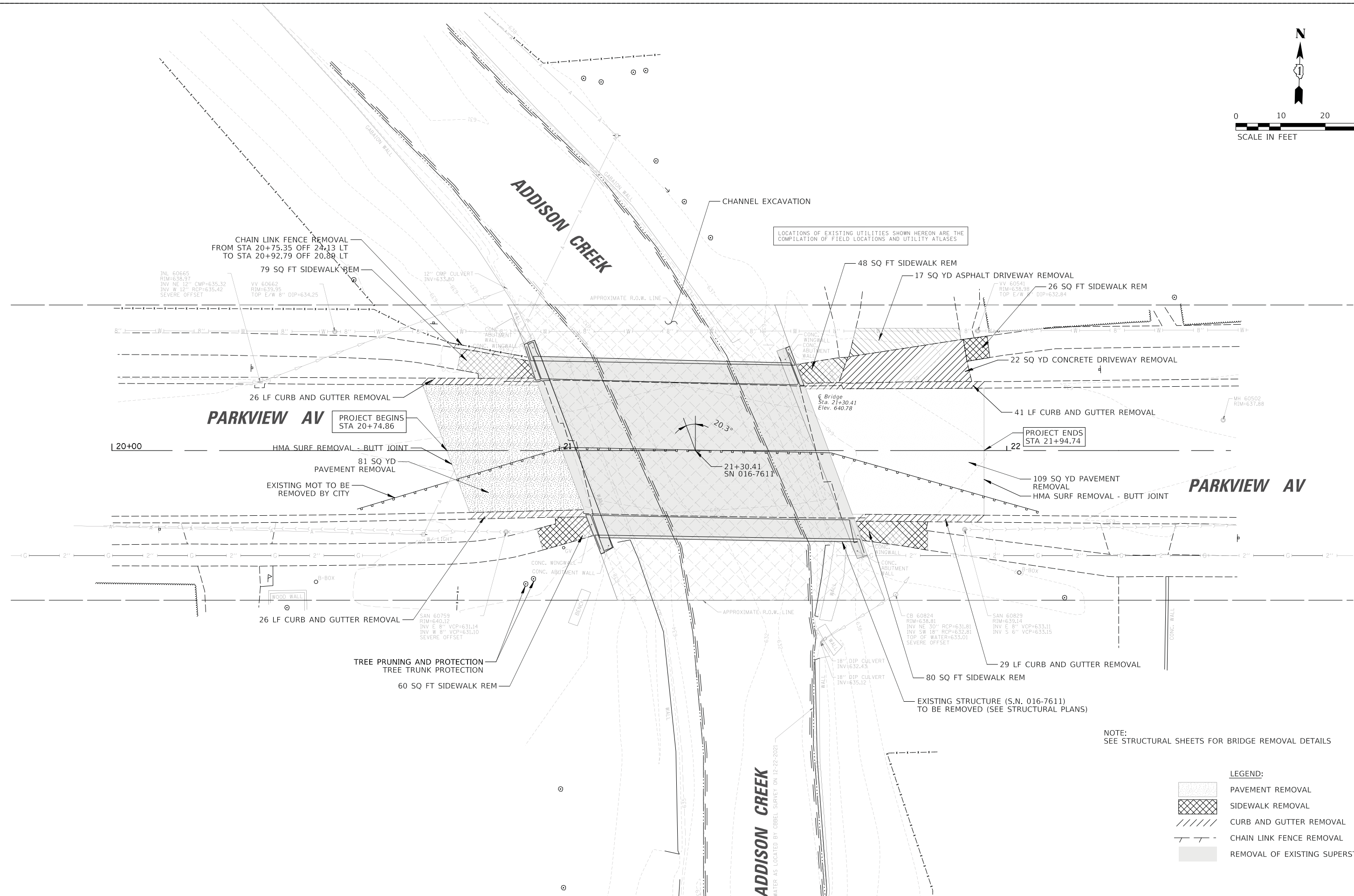
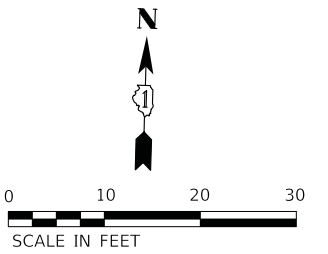
CB CHRISTOPHER B. BURKE ENGINEERING, LTD.
 9075 W. Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

USER NAME = doconnell	DESIGNED -	REVISED -
PLOT SCALE = 20'	DRAWN -	REVISED -
PLOT DATE = 2/21/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070 3000	20-00098-00-BR	COOK	48	9
CONTRACT NO. 61J43				
ILLINOIS FED. AID PROJECT				



LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE THE COMPILATION OF FIELD LOCATIONS AND UTILITY ATLASES

NOTE:
SEE STRUCTURAL SHEETS FOR BRIDGE REMOVAL DETAILS

LEGEND:

	PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	CURB AND GUTTER REMOVAL
	CHAIN LINK FENCE REMOVAL
	REMOVAL OF EXISTING SUPERSTRUCTURE

MODEL: D:\c\h\h\... FILE NAME: N:\NORTHLAKE\940023DC187\CU\REH-01_DC187.dwg

CB CHRISTOPHER B. BURKE ENGINEERING, LTD.
9075 W. Higgins Road, Suite 400
Rosemont, Illinois 60018
(847) 823-0500

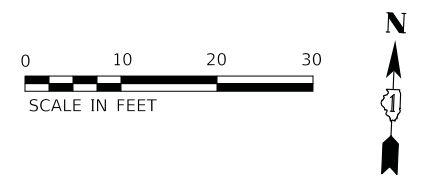
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

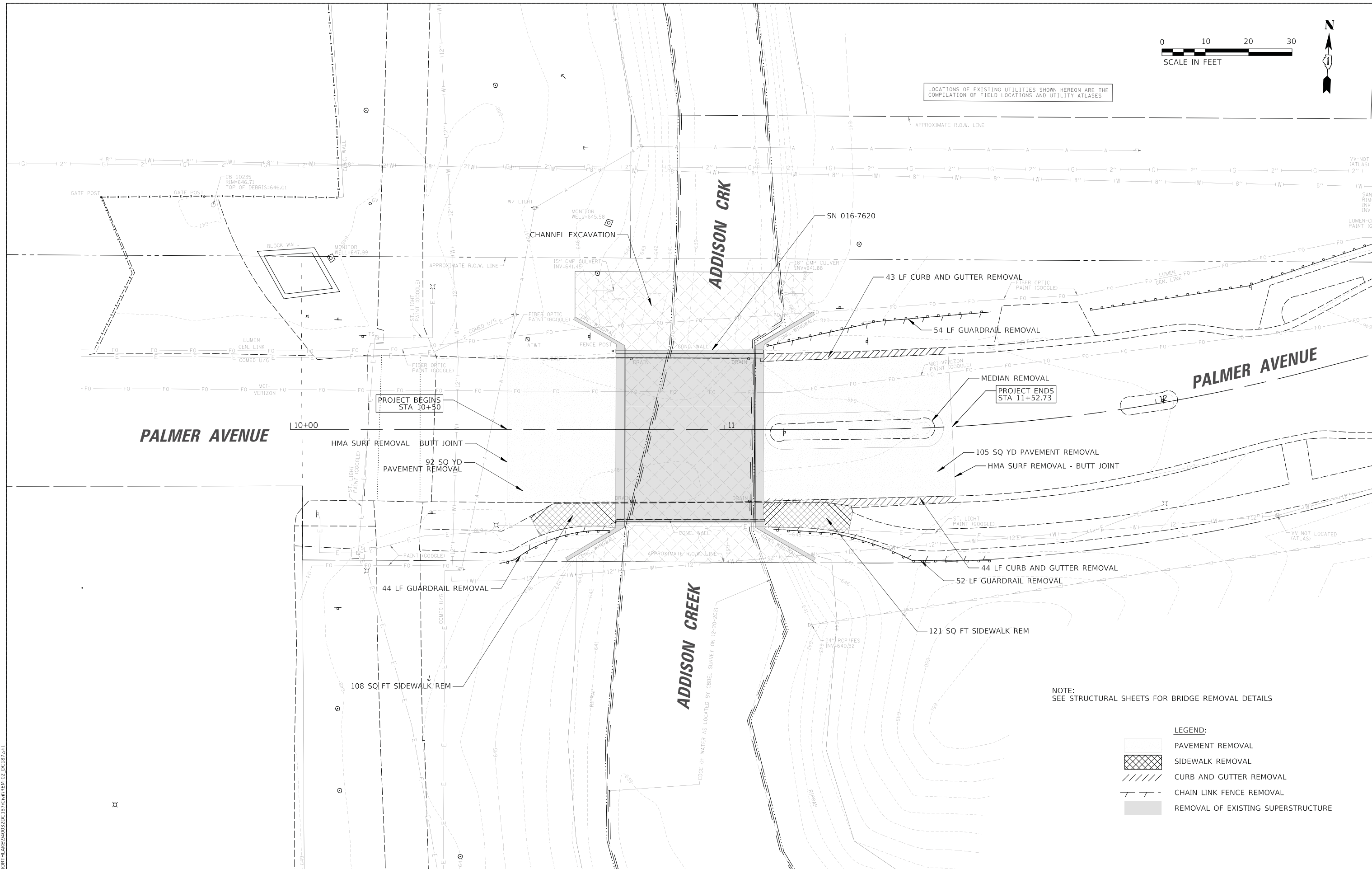
**PARKVIEW AVE OVER ADDISON CREEK (S.N. 016-7611)
EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070 3000	20-00098-00-BR	COOK	48	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J43	



LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE THE COMPILATION OF FIELD LOCATIONS AND UTILITY ATLASES



NOTE:
SEE STRUCTURAL SHEETS FOR BRIDGE REMOVAL DETAILS

LEGEND:

	PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	CURB AND GUTTER REMOVAL
	CHAIN LINK FENCE REMOVAL
	REMOVAL OF EXISTING SUPERSTRUCTURE

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3075 W. Higgins Road, Suite 400
Rosemont, Illinois 60018
(847) 823-0500

USER NAME = dcoconnell	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 3/2/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

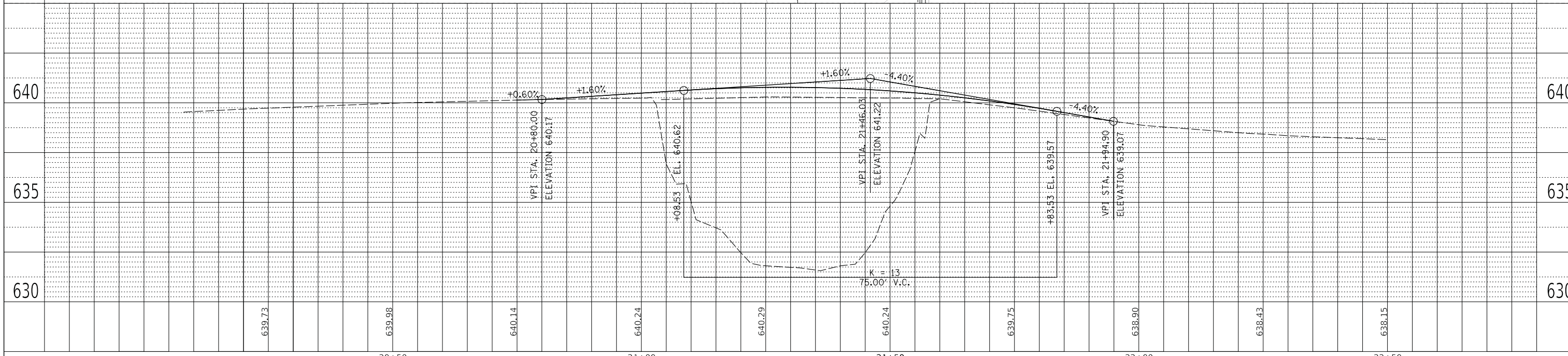
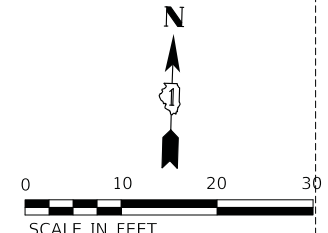
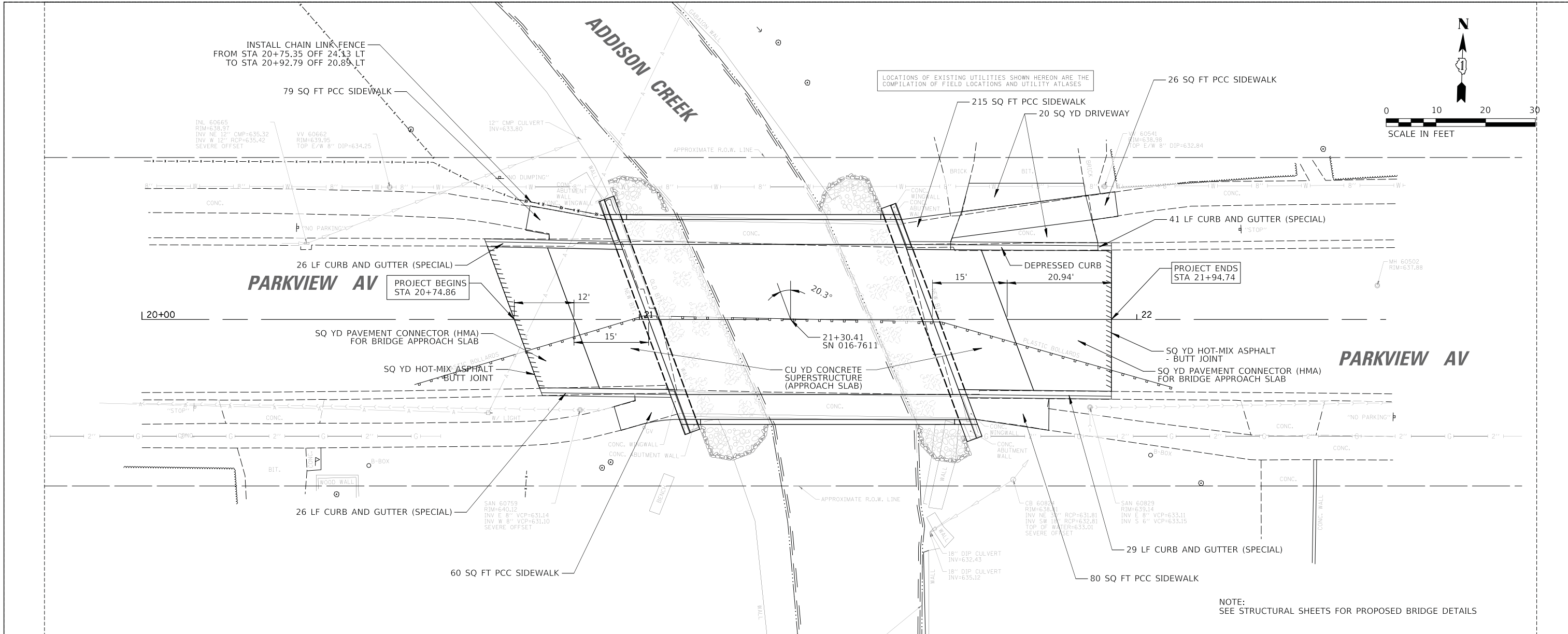
**PALMER DRIVE OVER ADDISON CREEK (S.N. 016-7620)
EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070 3000	20-00098-00-BR	COOK	48	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J43	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHD	
	NOTE BOOK NO.	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHD	
	NOTE BOOK NO.	
	CHECKED	
	FILE NAME	



NOTE:
SEE STRUCTURAL SHEETS FOR PROPOSED BRIDGE DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKVIEW AVE OVER ADDISON CREEK (S.N. 016-7611)
PLAN AND PROFILE

USER NAME =	doconnell	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
PLOT SCALE =	18'		
PLOT DATE =	2/21/2023		

SCALE: SHEET OF SHEETS STA. TO STA.

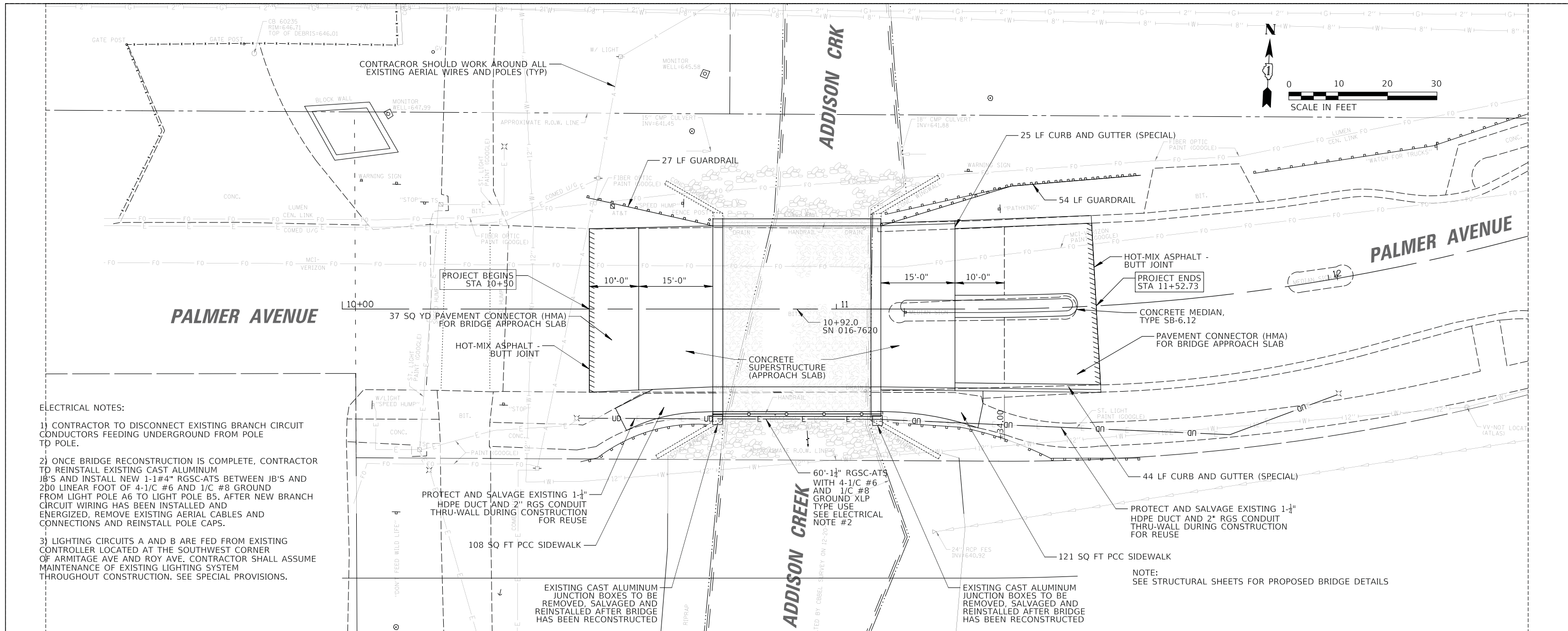
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4070	20-00098-00-BR	COOK	48	12
3000				
				CONTRACT NO. 61J43
ILLINOIS FED. AID PROJECT				

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MODELL Default

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875 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0800

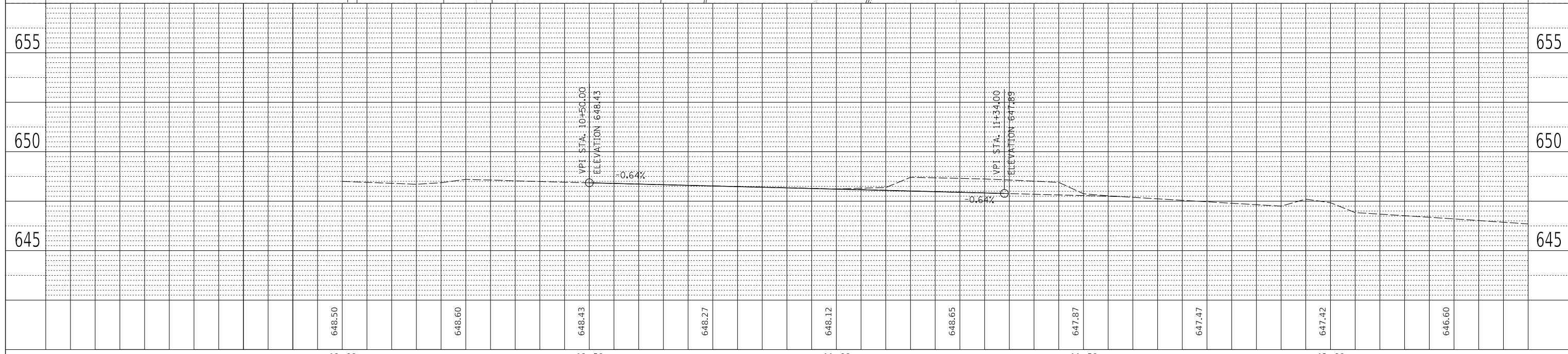
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	PLOTTED		
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	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	GRADES		
	STRUCTURE		
	NOTATIONS		
	CHRD		
	NO.		



ELECTRICAL NOTES:

- 1) CONTRACTOR TO DISCONNECT EXISTING BRANCH CIRCUIT CONDUCTORS FEEDING UNDERGROUND FROM POLE TO POLE.
- 2) ONCE BRIDGE RECONSTRUCTION IS COMPLETE, CONTRACTOR TO REINSTALL EXISTING CAST ALUMINUM JB'S AND INSTALL NEW 1-1/4" RGSC-ATS BETWEEN JB'S AND 200 LINEAR FOOT OF 4-1/C #6 AND 1/C #8 GROUND FROM LIGHT POLE A6 TO LIGHT POLE B5. AFTER NEW BRANCH CIRCUIT WIRING HAS BEEN INSTALLED AND ENERGIZED, REMOVE EXISTING AERIAL CABLES AND CONNECTIONS AND REINSTALL POLE CAPS.
- 3) LIGHTING CIRCUITS A AND B ARE FED FROM EXISTING CONTROLLER LOCATED AT THE SOUTHWEST CORNER OF ARMITAGE AVE AND ROY AVE. CONTRACTOR SHALL ASSUME MAINTENANCE OF EXISTING LIGHTING SYSTEM THROUGHOUT CONSTRUCTION. SEE SPECIAL PROVISIONS.



10+00	10+50	11+00	11+50	12+00
648.50	648.60	648.43	648.27	648.12
648.65	647.87	647.47	647.42	646.60

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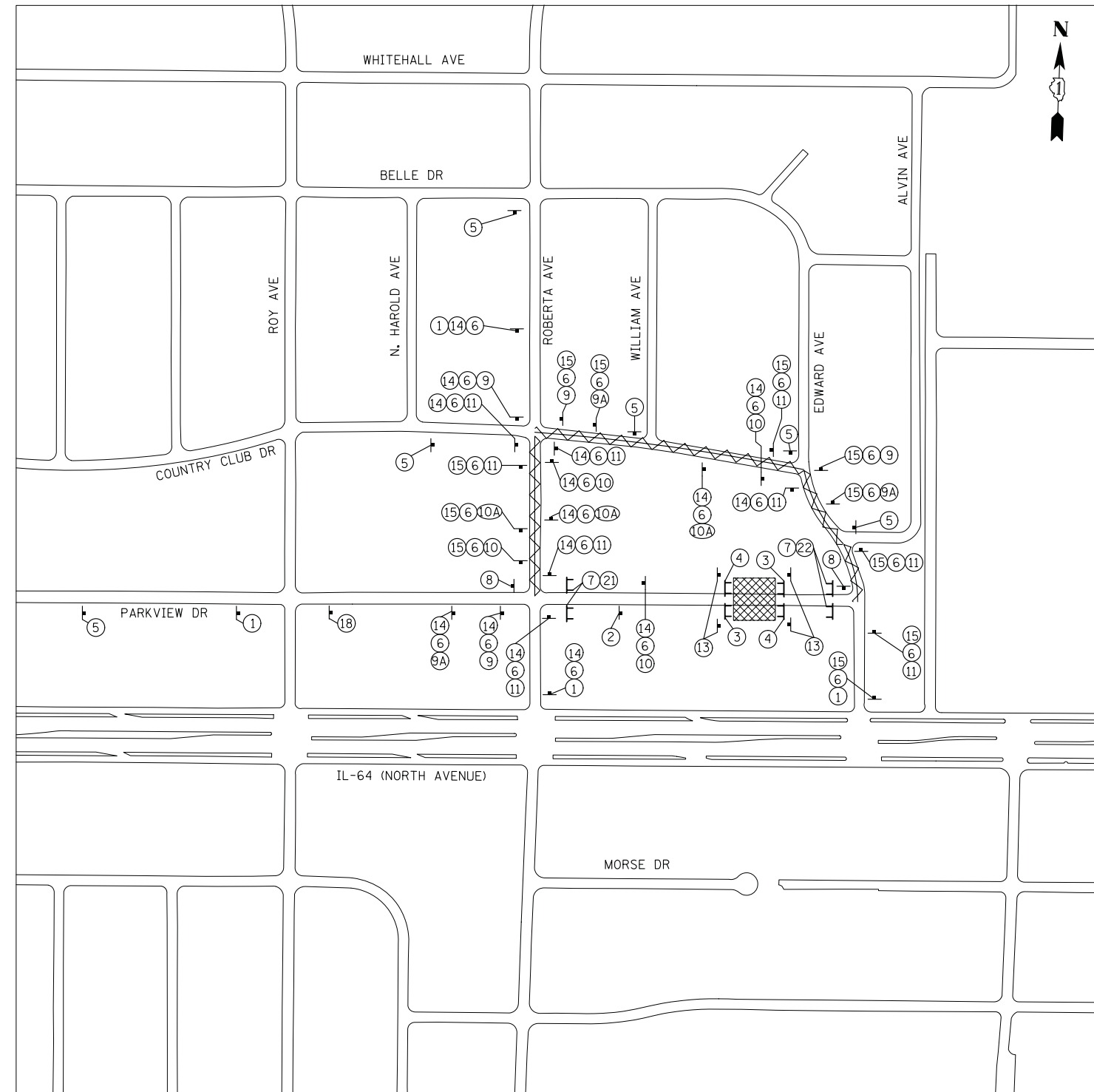
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PLOT SCALE = 18'	DRAWN -	REVISED -
PLOT DATE = 3/2/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PALMER DRIVE OVER ADDISON CREEK (S.N. 016-7620)
ROADWAY PLAN AND PROFILE**

MUN. RTE. 4070 3000	SECTION 20-00098-00-BR	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 13
CONTRACT NO. 61J43				

ILLINOIS FED. AID PROJECT



LEGEND:

- SIGN
- TYPE III BARRICADE AND DETECTABLE PEDESTRIAN BARRICADES FOR CLOSING SIDEWALKS
- PROJECT AREA (COMPLETE CLOSURE)
- DETOUR ROUTE

NOTES:

1. REFER TO DISTRICT 1 DETAIL TC-21 FOR GUIDANCE ON TYPICAL SIGN LAYOUT AND SPACING
2. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL ERECT CHANGEABLE MESSAGE SIGN INDICATING DATE CLOSURE BEGINS. INCLUDED IN COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL). ONE CHANGEABLE MESSAGE SIGN ON EACH SIDE OF BRIDGE (TWO TOAL). SIGN SHALL BE DISPLAYED FOR TWO WEEKS PRIOR TO CLOSURE.

- ① **DETOUR AHEAD**
W20-2(O)
4848
- ② **ROAD CLOSED 500 FT**
W20-3(O)
4848
- ③ **ROAD CLOSED**
R11-2
4830
- ④ **BRIDGE OUT**
R11-2
4830
- ⑤ **Parkview Drive CLOSED AT Addison Creek**
6" BLACK LETTERS, ORANGE REFLECTIVE BACKGROUND
- ⑥ **Parkview Dr**
6" BLACK LETTERS, ORANGE REFLECTIVE BACKGROUND
- ⑦ **ROAD CLOSED TO THRU TRAFFIC**
R11-4
6030
- ⑧ **END DETOUR**
M4-8A
2418
- ⑨ **DETOUR**
M4-9L
3021
- ⑩ **DETOUR**
M4-9R
3021
- ⑪ **DETOUR**
M4-9
3021
- ⑬ **SIDEWALK CLOSED**
R11-10I
2430
- ⑭ **EAST**
M3-2(O)
2412
- ⑮ **WEST**
M3-4(O)
2412
- ⑯ **NO RIGHT TURN**
R3-1
2424
- ⑰ **NO LEFT TURN**
R3-2
2424
- ⑱ **ROAD CLOSED AHEAD**
W20-3
4848
- ⑳ **DETOUR**
M4-10L
4818
- ㉑ **DETOUR**
M4-10R
4818

1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", "THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES ADOPTED 2010", THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION.

2. THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE ENGINEER SHALL DETERMINE THE HOUR OF CLOSURE. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES. CITY WILL PROVIDE CONTRACTOR WITH AGENCY NAMES AND CONTACT INFORMATION ONCE THE NOTICE IS SUBMITTED TO THE CITY FOR REVIEW.

3. THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVE RESPONSIBLE FOR THE DETOUR SIGNING PRIOR TO THE START OF THE WORK.

4. IF REQUESTED BY THE CONTRACTOR IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT, THE ENGINEER WILL FIELD LOCATE THE POSITIONS OF ANY SIGNS.

6. THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE DETOUR PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.

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

8. THE TRAFFIC CONTROL SHOWN ON THE DETOUR PLAN IS THE MINIMUM NECESSARY FOR THIS ROAD CLOSURE. THE CONTRACTOR SHALL MAKE ALL CHANGES IN TRAFFIC CONTROL THAT IS DEEMED NECESSARY BY THE ENGINEER.

9. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR, IN A MANNER APPROVED BY THE ENGINEER.

10. ALL DETOUR SIGNING SHALL BE POST MOUNTED IF THE ROAD CLOSURE IS TO EXCEED FOUR (4) CALENDAR DAYS.

11. ALL DETOUR SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF ARTICLE 1084.02 OF THE STANDARD SPECIFICATIONS. ALL DETOUR SIGNING SHALL BE NEW OR LIKE NEW CONDITION OF THE SIGNS. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION OF THE SIGNS.

12. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

13. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THIS DETOUR SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1084.01 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING THE HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.

14. ALL BARRICADES SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADES. THE TYPE III BARRICADES USED AT THE POINT OF CLOSURE TO THRU TRAFFIC SHALL NOT EXCEED 8 FEET IN WIDTH EACH, FOR A SINGLE APPROACH LANE.

15. THE "ROAD CLOSED" (R11-2), THE "ROAD CLOSED TO THRU TRAFFIC" (R11-4) SIGNS SHALL BE MOUNTED ABOVE THE TOP OF THE BARRICADE. ALL TYPE III BARRICADES SHALL HAVE TWO (2) AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE OF THE SUPPORTS.

16. THE ROAD NAME SIGN SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE REFLECTIVE SHEETING. THE SIGN BLANK SHALL BE A 9" X VARIABLE OR A 12" X VARIABLE WITH DESIGN SERIES C LETTERS. THE CAPITAL LETTERS SHALL BE 6" WITH 4.5" LOWER CASE.

17. DURING NON-WORKING HOURS AT THE POINT OF ROAD CLOSURE TO ALL TRAFFIC THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE BARRICADES FROM EASY MOVEMENT BY VANDALS. THE CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.

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

19. THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) HOURS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES. CITY WILL PROVIDE CONTRACTOR WITH AGENCY NAMES AND CONTACT INFORMATION ONCE THE NOTICE IS SUBMITTED TO THE CITY FOR REVIEW.

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CB CHRISTOPHER B. BURKE ENGINEERING, LTD.
9075 W. Higgins Road, Suite 400
Rosemont, Illinois 60018
(847) 823-0500

USER NAME = doconnell	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200'	CHECKED -	REVISED -
PLOT DATE = 2/21/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARKVIEW DRIVE (S.N. 016-7611)
DETOUR PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070 3000	20-00098-00-BR	COOK	48	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J43	



LEGEND:

- SIGN
- TYPE III BARRICADE AND DETECTABLE PEDESTRIAN BARRICADES FOR CLOSING SIDEWALKS
- PROJECT AREA (COMPLETE CLOSURE)
- DETOUR ROUTE

NOTES:

1. REFER TO DISTRICT 1 DETAIL TC-21 FOR GUIDANCE ON TYPICAL SIGN LAYOUT AND SPACING
2. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL ERECT CHANGEABLE MESSAGE SIGN INDICATING DATE CLOSURE BEGINS. INCLUDED IN COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL). ONE CHANGEABLE MESSAGE SIGN ON EACH SIDE OF BRIDGE (TWO TOTAL). SIGN SHALL BE DISPLAYED FOR TWO WEEKS PRIOR TO CLOSURE.

- ① **DETOUR AHEAD**
W20-2(O)
4848
- ② **ROAD CLOSED 500 FT**
W20-3(O)
4848
- ③ **ROAD CLOSED**
R11-2
4830
- ④ **BRIDGE OUT**
R11-2
4830
- ⑤ **Palmer Avenue CLOSED AT Addison Creek**
6" BLACK LETTERS, ORANGE REFLECTIVE BACKGROUND
- ⑥ **Palmer Ave**
6" BLACK LETTERS, ORANGE REFLECTIVE BACKGROUND
- ⑦ **ROAD CLOSED TO THRU TRAFFIC**
R11-4
6030
- ⑧ **END DETOUR**
M4-8A
2418
- ⑨ **DETOUR**
M4-9L
3021
- ⑩ **DETOUR**
M4-9R
3021
- ⑪ **DETOUR**
M4-9
3021
- ⑬ **SIDEWALK CLOSED**
R11-10I
2430
- ⑭ **EAST**
M3-2(O)
2412
- ⑮ **WEST**
M3-4(O)
2412
- ⑯ **R3-1**
2424
- ⑰ **R3-2**
2424
- ⑱ **ROAD CLOSED AHEAD**
W20-3
4848
- ⑳ **DETOUR**
M4-10L
4818
- ㉑ **DETOUR**
M4-10R
4818

1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", "THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES ADOPTED 2010", THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION.

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16. THE ROAD NAME SIGN SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE REFLECTIVE SHEETING. THE SIGN BLANK SHALL BE A 9" X VARIABLE OR A 12" X VARIABLE WITH DESIGN SERIES C LETTERS. THE CAPITAL LETTERS SHALL BE 6" WITH 4.5" LOWER CASE.

17. DURING NON-WORKING HOURS AT THE POINT OF ROAD CLOSURE TO ALL TRAFFIC THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE BARRICADES FROM EASY MOVEMENT BY VANDALS. THE CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.

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(847) 823-0500

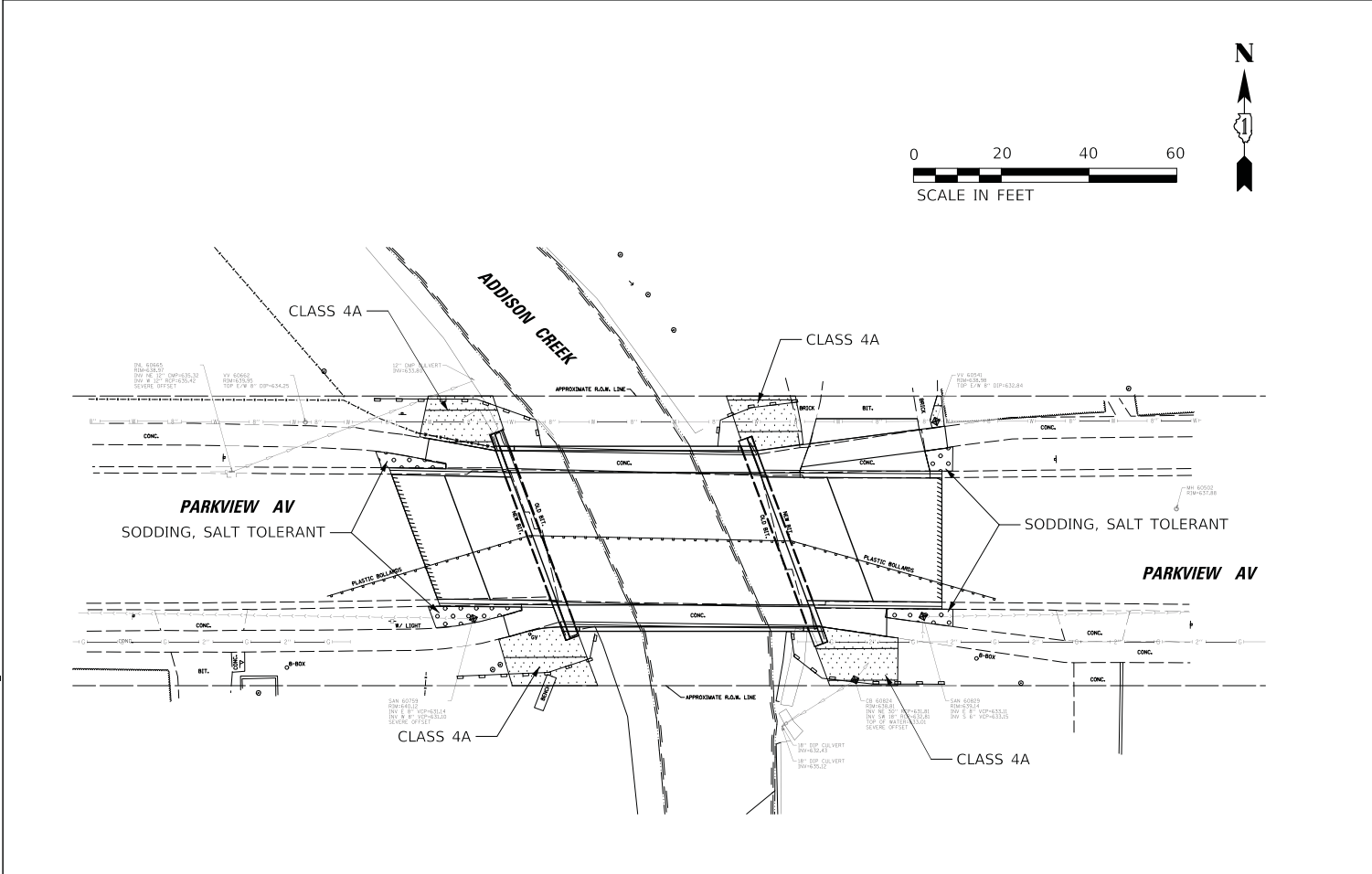
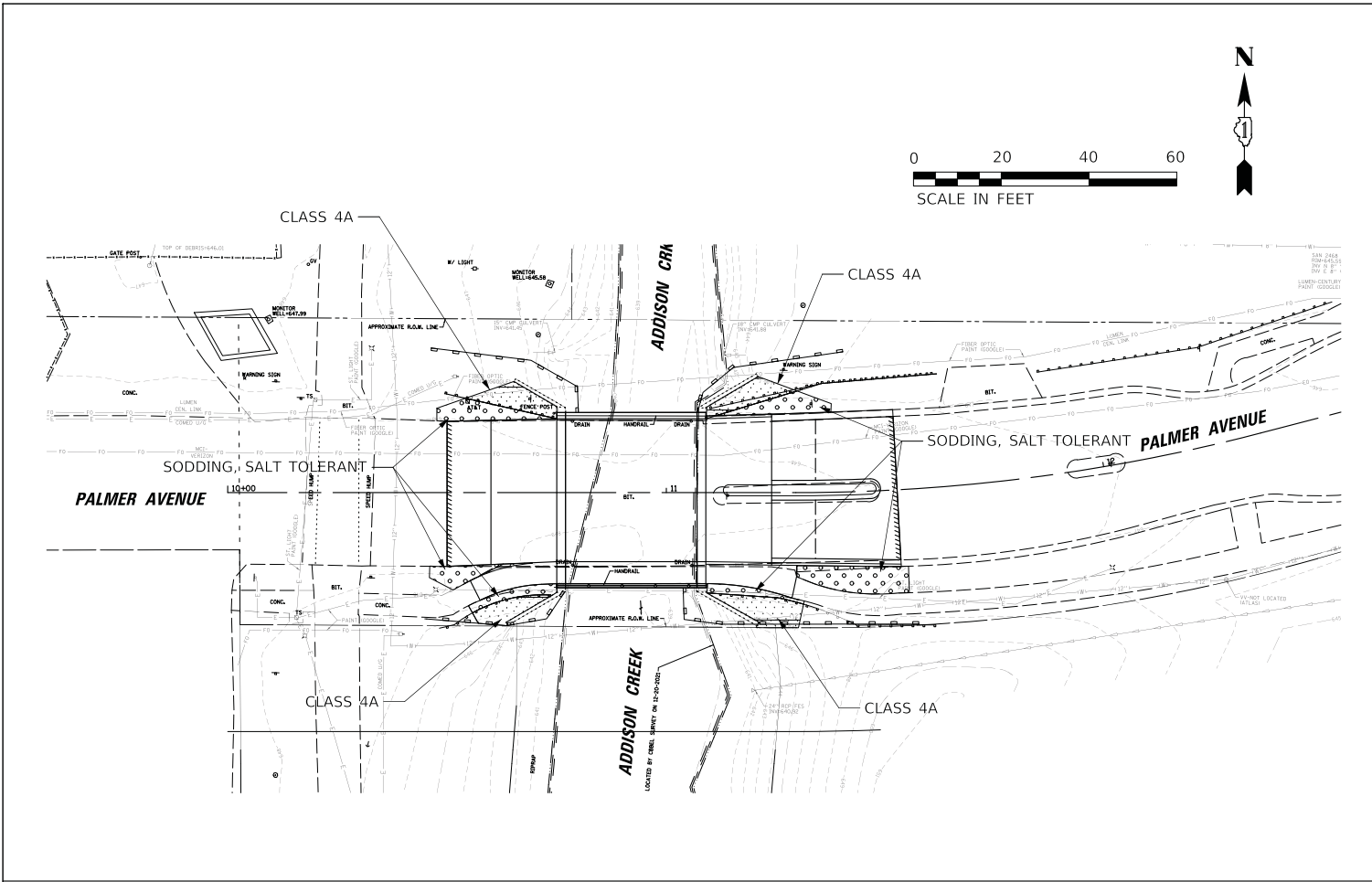
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	DRAWN -	REVISED -
PLOT SCALE = 200'	CHECKED -	REVISED -
PLOT DATE = 2/21/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PALMER AVENUE (S.N. 016-7620)
DETOUR PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.





MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070 3000	20-00098-00-BR	COOK	48	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J43	



EROSION CONTROL NOTES:

1. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
2. ANY 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.
3. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES.
4. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
5. THE CONTRACTOR SHALL INSTALL/MAINTAIN/ REMOVE PERIMETER EROSION BARRIER ALONG THE CREEK, AND AT ALL OTHER LOCATIONS WHERE STORM WATER SHEET FLOWS OUT OF THE WORK ZONE, AND AT LOCATIONS AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL INSTALL/MAINTAIN/REMOVE INLET FILTERS IN ALL OPEN LID DRAINAGE STRUCTURES IN THE PAVEMENT THAT ARE WITHIN THE WORK ZONE OR ACCEPT STORMWATER THAT FLOWS OUT OF THE WORK ZONE, AND AT LOCATIONS AS DIRECTED BY THE ENGINEER.
7. THE CONTRACTOR SHALL INSTALL/MAINTAIN/REMOVE INLET AND PIPE PROTECTION IN ALL OPEN LID DRAINAGE STRUCTURES IN THE PARKWAYS THAT ARE WITHIN THE WORK ZONE OR ACCEPT STORMWATER THAT FLOWS OUT OF THE WORK ZONE, AND AT LOCATIONS AS DIRECTED BY THE ENGINEER.
8. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

LEGEND

-  PERIMETER EROSION BARRIER
-  INLET FILTER
-  TEMPORARY EROSION CONTROL SEEDING, TEMPORARY EROSION CONTROL BLANKET SODDING, SALT TOLERANT
-  TEMPORARY EROSION CONTROL SEEDING TEMPORARY EROSION CONTROL BLANKET TOPSOIL FURNISH AND PLACE 4" SEEDING CLASS 4A, EROSION CONTROL BLANKET (SPECIAL)

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 02/21/2023 10:52:11 AM

CB CHRISTOPHER B. BURKE ENGINEERING, LTD.
 3075 W. Higgins Road, Suite 400
 Rosemont, IL 60018
 (847) 823-0500

USER NAME = docconnell	DESIGNED -	REVISED -
PLOT SCALE = 20'	DRAWN -	REVISED -
PLOT DATE = 2/21/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

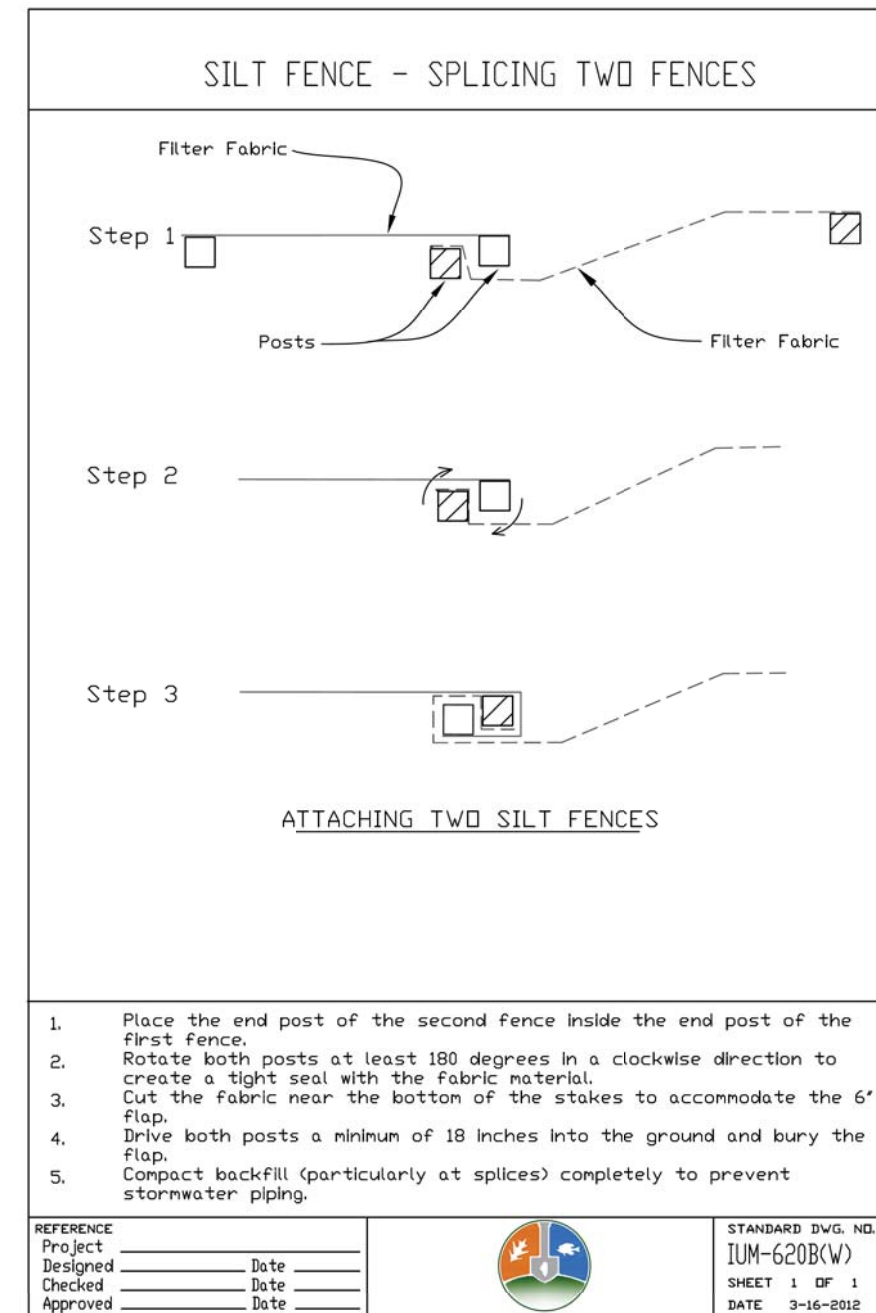
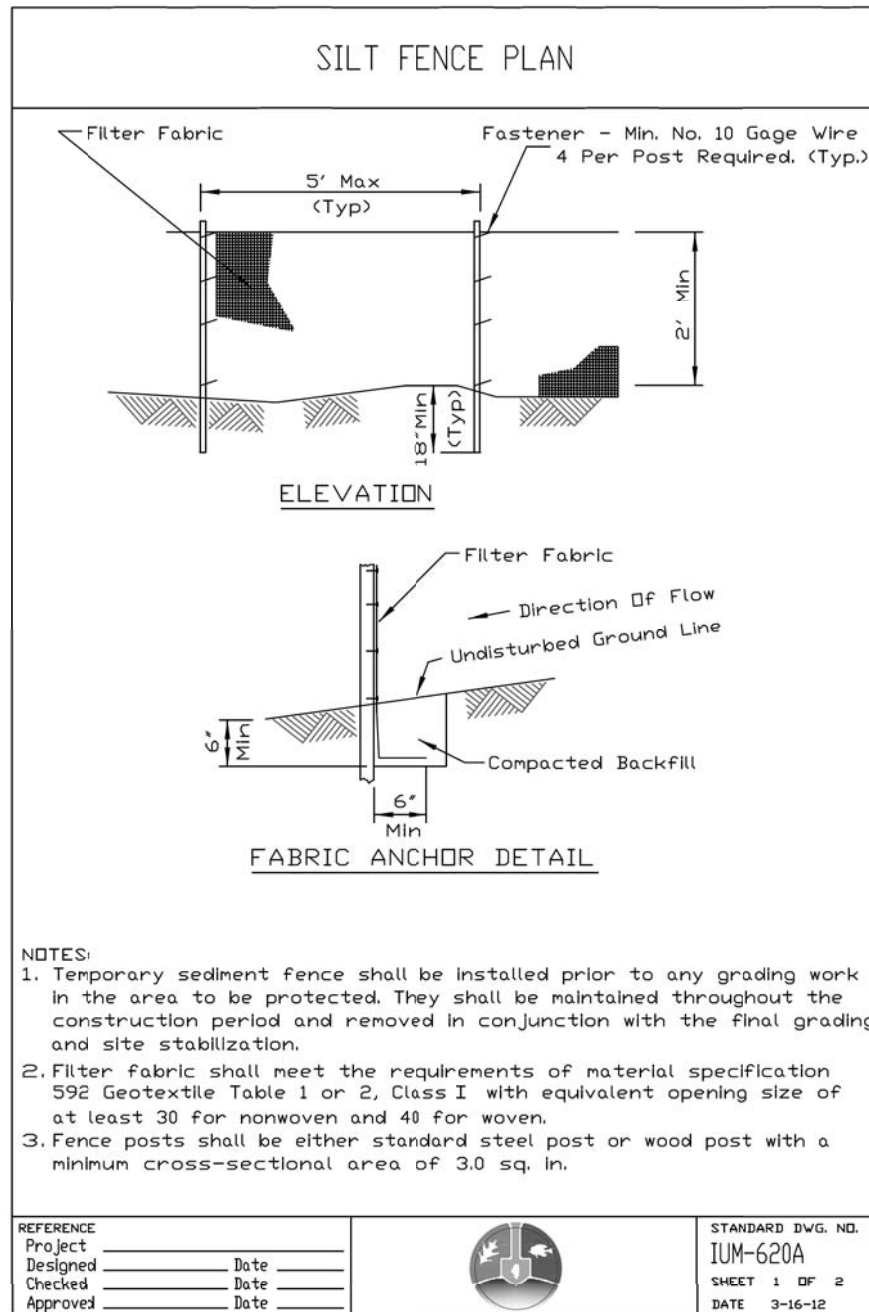
EROSION CONTROL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	16
3000				

CONTRACT NO. 61J43

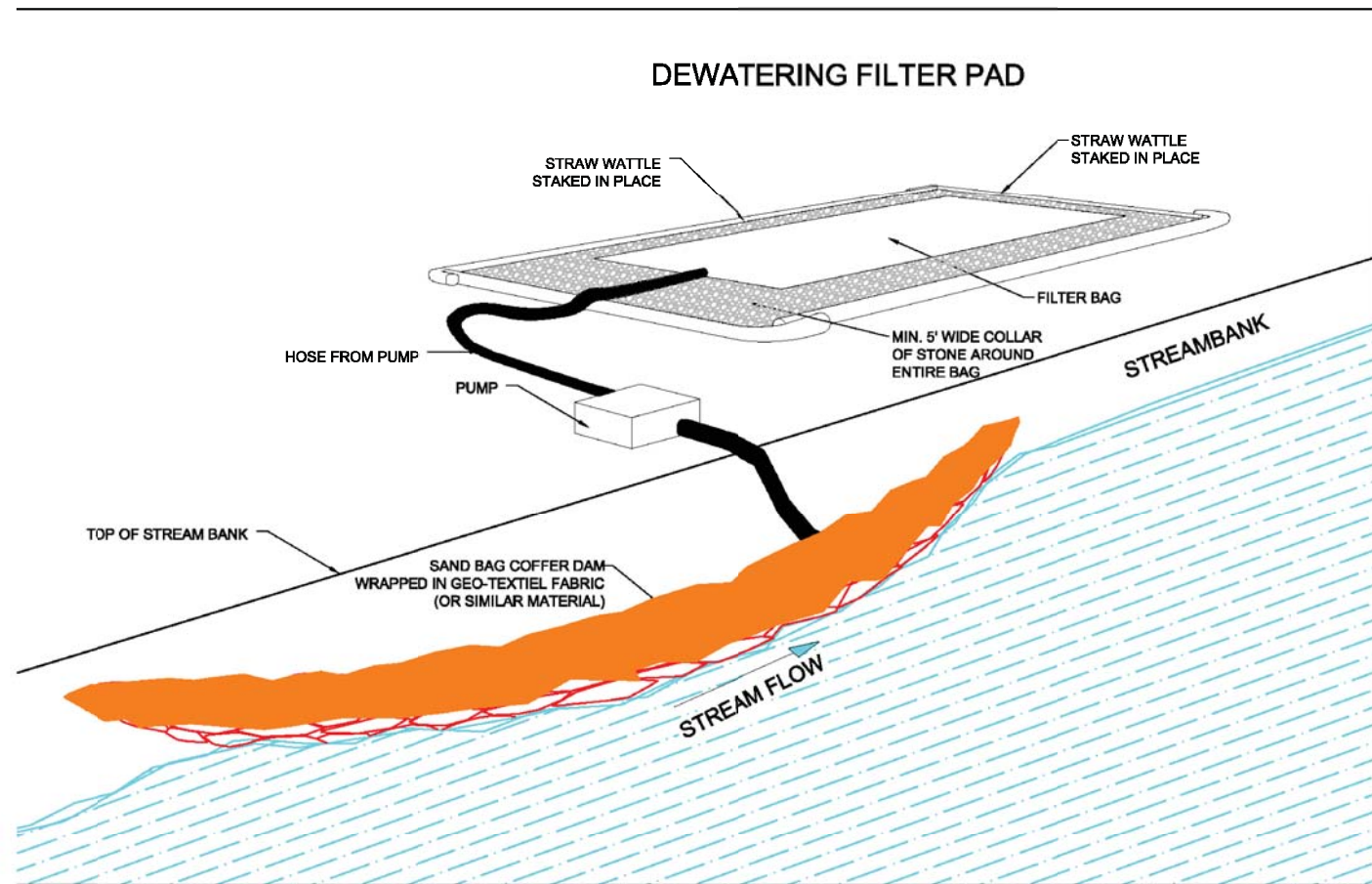
ILLINOIS FED. AID PROJECT



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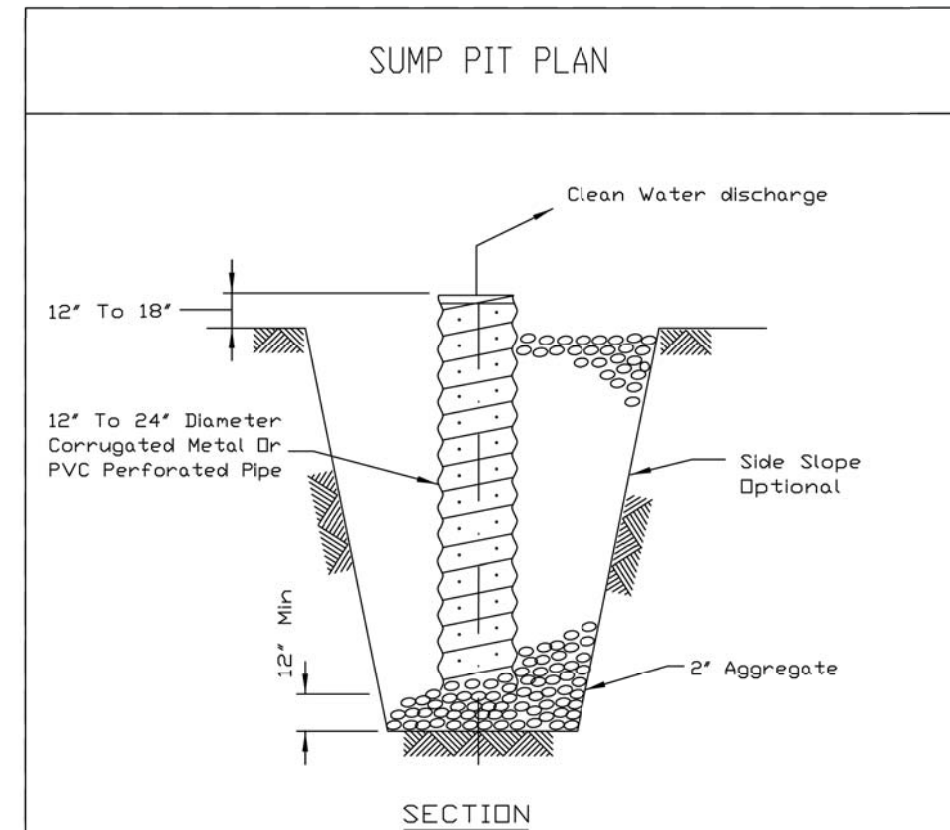
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4070	20-00098-00-BR	COOK	48	18
3000				CONTRACT NO. 61143
		ILLINOIS	FED. AID PROJECT	



SANDBAG COFFEDAM

A sandbag cofferdam should be installed by hand during low-flow conditions to isolate the streambank stabilization work from the flows of Addison Creek. If at the time of construction, the contractor believes that a cofferdam is not necessary to perform the work, the contractor shall gain approval from the US Army Corps of Engineers to proceed without installing a cofferdam. An impermeable liner, such as polyethylene plastic sheeting (minimum 20 mil thick), shall be placed in the creek along with the sandbags that must be an impermeable material shall be stacked in an alternating pattern upon the liner. The liner shall be placed so it may be wrapped over the sandbags towards the shore to create a seal. Sandbag cofferdam installation in a C-Shape design along the portion of the streambank requiring restoration. Following cofferdam installation, a pump equipped with a sediment bag will be used to dewater the area between the cofferdam and the streambank (see detail). The dewatering bag shall be placed as far from the creek as possible to maximize the time for sediment removal. The pump must be floated on top of the water to minimize the intake of sediment. The cofferdam, and pump must be maintained as necessary to allow the contractor to work "in the dry" and to control sediment. Following completion of the streambank restoration work, the sandbag cofferdam will be removed by hand, starting with the downstream side, to keep water flows. Unimpeded stabilization of upland areas may be required following removal of the sediment bag filter pad and should be completed using the specified native seed mix.

In no case shall the sandbag cofferdam be installed for greater than 30 days.



NOTES:

1. Pit dimensions are optional.
2. The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.
3. A base of 2" aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2" aggregate.
4. The standpipe will extend 12" to 18" above the lip of the pit.
5. If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
6. If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

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



STANDARD DWG. NO.	IL-650
SHEET	1 OF 1
DATE	8-11-94

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PLOT DATE = 2/21/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARKVIEW DRIVE AND PALMER AVENUE
EROSION CONTROL DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

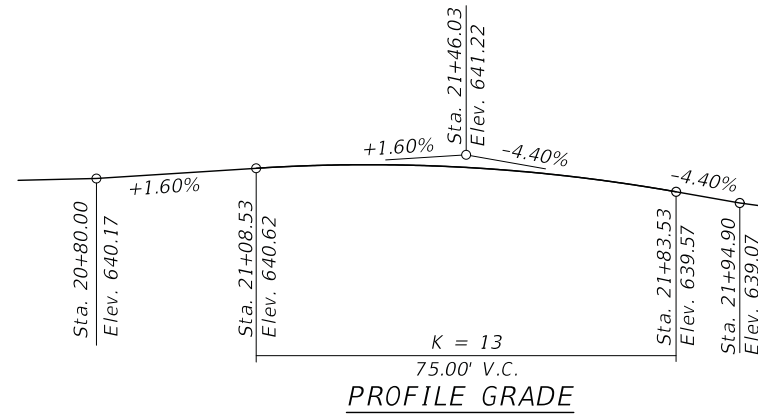
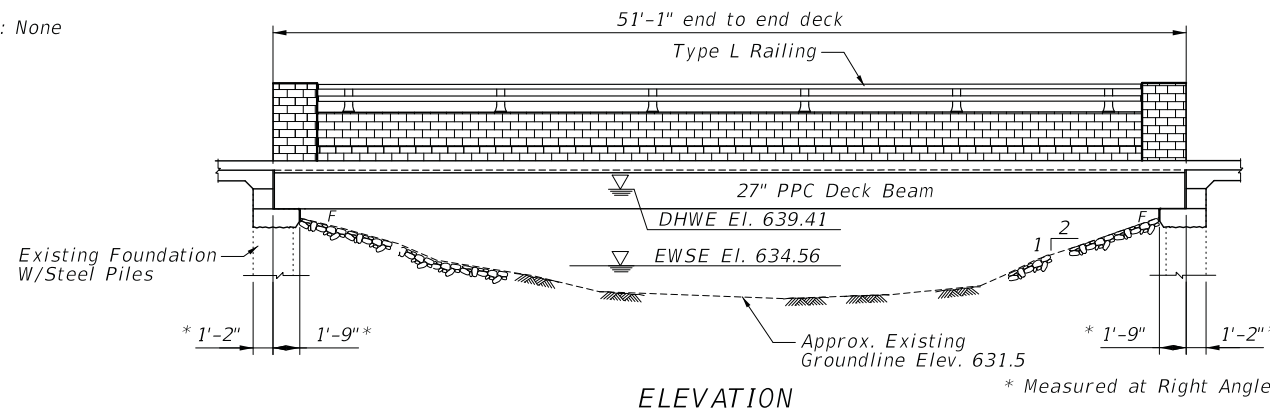
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	19
3000				CONTRACT NO. 61143
		ILLINOIS	FED. AID PROJECT	

Bench Mark: OSBM 21-10. Northeast flange bolt of hydrant at the northwest corner of Park View Avenue and Edwards Avenue. Elevation 640.18

Existing Structure: The existing structure, SN 016-7611, is a single span bridge. The structure was built in 1965. The original design plans are not available. The bridge has an overall length of 60'-0"± back to back of abutments. The deck provides one 12'-0" traffic lane, a 2'-10" shoulder, and a 4'-6"± sidewalk with metalrailing in each direction. The total out to out of deck is 40'-2". The superstructure consists of thirteen 27"x36" PPC Deck Beams with 2"± HMA wearing surface. The abutment types are unknown. There has been no repairs since the original construction.

Traffic: The bridge will be closed during construction and traffic detoured.

Salvage: None



DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition & Interims

DESIGN STRESSES

FIELD UNITS (New Construction)
f'c = 4,000 psi (Superstructure)
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 6,000psi
f'ci = 5,000 psi
fpu=270,000 psi (1/2" Φ low relax. Strands)
fpbt=201,960 psi (1/2" Φ low relax. Strands)

FIELD UNITS (EXIST. CONSTRUCTION)

f'c = 2,500 psi
fy = 40,000 psi (Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = A
Horizontal Bedrock Acceleration Coefficient (A) = 0.036g
Site Coefficient (S) = 1.2
Soil Site Class=D

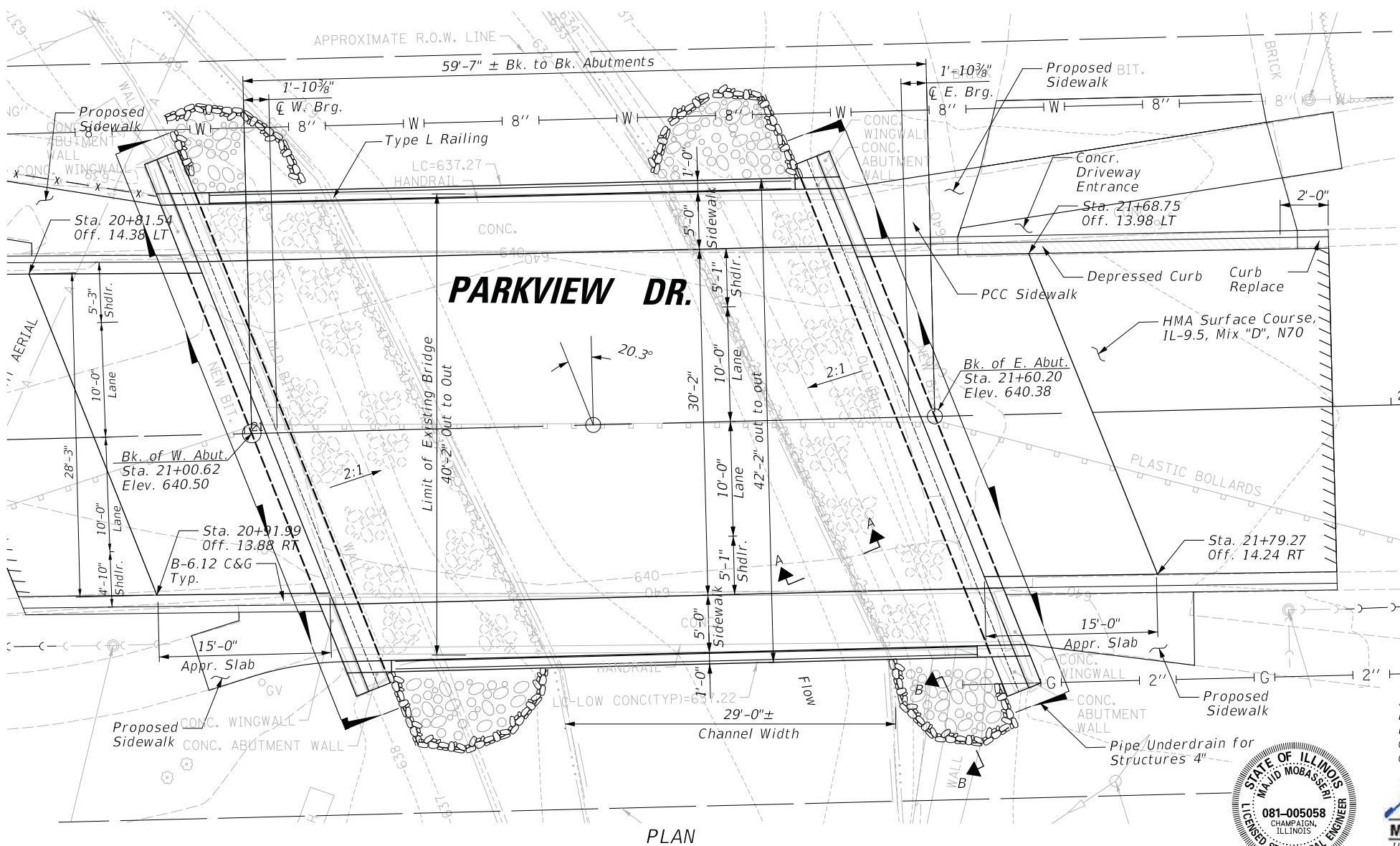
LOADING HL-93

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

WATERWAY INFORMATION

Drainage Area = 8.2 Square Miles Low Grade Elev. 638.00 @ East of Bridge

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	10	236	208/58	215/58	638.77	0.01	0.01	638.78	638.78
Design	30	337	208/164	215/164	639.40	0.01	0.01	639.41	639.41
Base	100	505	208/877	215/877	640.24	0.00	0.00	640.24	640.24
Scour Design	200	619	208/1122	215/1122	640.49	0.00	0.00	640.49	640.49
Overtopping	~4	178	208	215	638.00	0.00	0.00	638.00	638.00
Max. Calc.	500	860	208/1374	215/1374	640.73	0.01	0.01	640.74	640.74

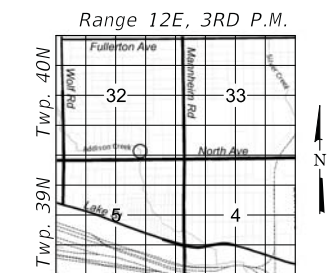


ADDISON CREEK
RE-BUILT BY
CITY OF NORTHLAKE
SEC. 20-00098-00-BR
STATION 21+30.72
STR. NO. 016-7611 LOADING HL-93

NAME PLATE

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)		
	E. Abut.	W. Abut.	Item 113
State Q100	630.08	630.08	8
Q200	630.26	630.26	
Design	625.70	625.70	



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

PARKVIEW DRIVE OVER
ADDISON CREEK
SECTION 20-00098-00-BR
COOK COUNTY
STRUCTURE No. 016-7611
STATION 21+30.72

I Certify That To The Best Of My Knowledge, Information And Belief, This Bridge Design Is Structurally Adequate For The Design Loading Shown On The Plans. The Design Is An Economical One For The Style Of Structure And Complies With Requirements Of The Current "AASHTO LRFD Bridge Design Specifications".

Majid Mobasser 2/16/23
MAJID MOBASSERI
ILLINOIS REGISTRATION No. 081-005058 STRUCTURAL ENGINEER
EXPIRATION DATE: 11/30/24



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKVIEW DRIVE - BRIDGE RECONSTRUCTION
GENERAL PLAN AND ELEVATION

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	20
3000			CONTRACT NO. 61J43	

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CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

USER NAME	DESIGNED	REVISIONS
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	CHECKED	REVISIONS
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PLOT SCALE	DRAWN	REVISIONS
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PLOT DATE	CHECKED	REVISIONS
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GENERAL NOTES

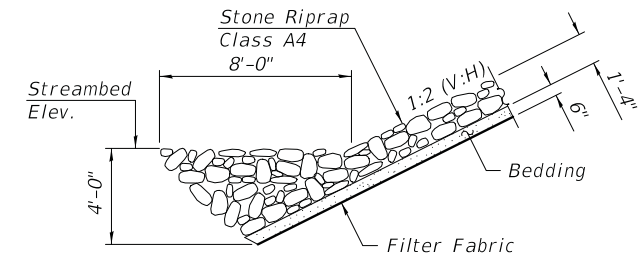
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Protective coat shall not be applied to surfaces to which waterproofing membrane system is applied.
4. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
5. Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.
6. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
7. See Special Provisions for form liner textured surface.

INDEX OF SHEETS

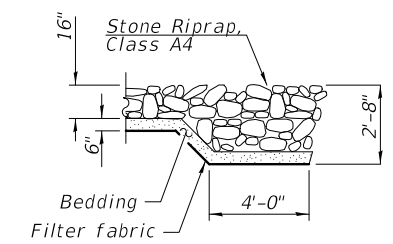
- S-1 General Plan and Elevation
- S-2 General Notes And Details
- S-3 Superstructure
- S-4 Superstructure Details
- S-5 Bridge Fence Railing (Sidewalk) Details
- S-6 27"x36" PPC Deck Beam Details
- S-7 27"x36" PPC Deck Beam Details
- S-8 West Abutment
- S-9 East Abutment
- S-10 Bridge Approach Slab Details
- S-11 Bridge Approach Slab Details

TOTAL BILL OF MATERIAL

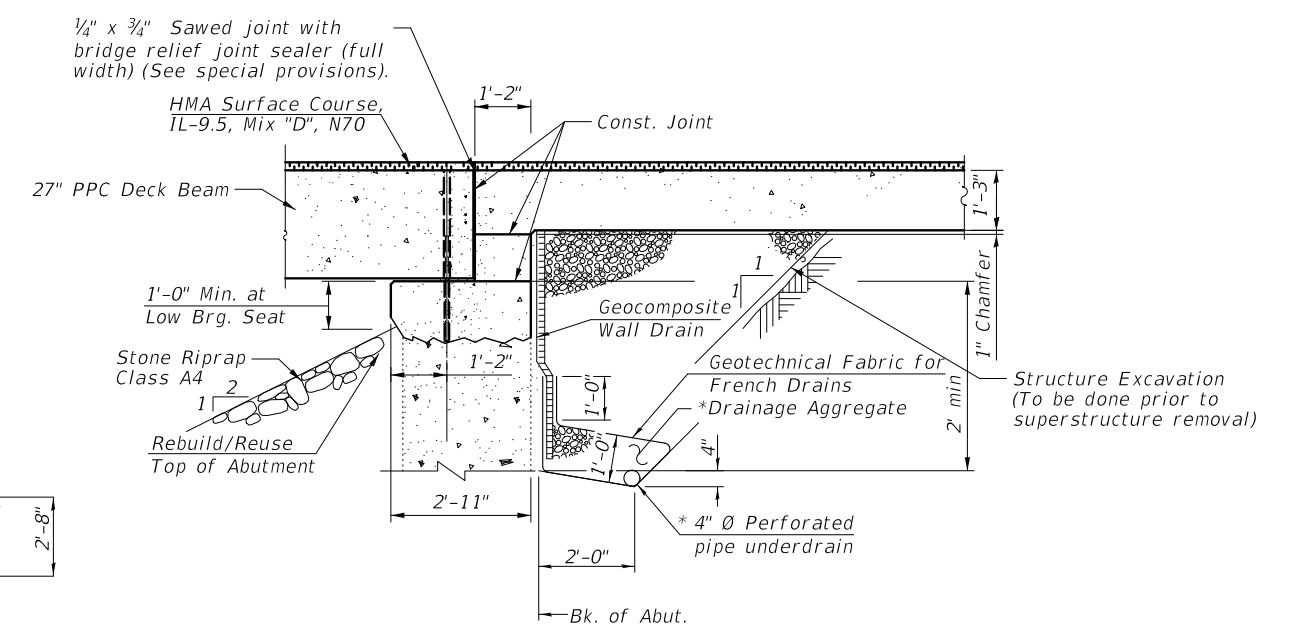
PAY ITEM	DESCRIPTION	UNIT	TOTAL
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	38
50101500	REMOVAL OF EXISTING SUPERSTRUCTURE	EACH	1
50102400	CONCRETE REMOVAL	CU YD	25.8
50200100	STRUCTURE EXCAVATION	CU YD	55
50300225	CONCRETE STRUCTURES	CU YD	36.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	35.7
50300300	PROTECTIVE COAT	SQ YD	119
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	78.6
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	2,398
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	23,830
50900105	ALUMINUM RAILING, TYPE L	FOOT	102
51500100	NAME PLATE	EACH	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	192
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	52
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	38
60146304	PIPE UNDERDRAINS FOR STUCTURES 4"	FOOT	140
67100100	MOBILIZATION	LSUM	1
X1700034	FORM LINER TEXTURED SURFACE, SPECIAL	SQ FT	599



SECTION A-A



SECTION B-B



SECTION THRU ABUTMENT

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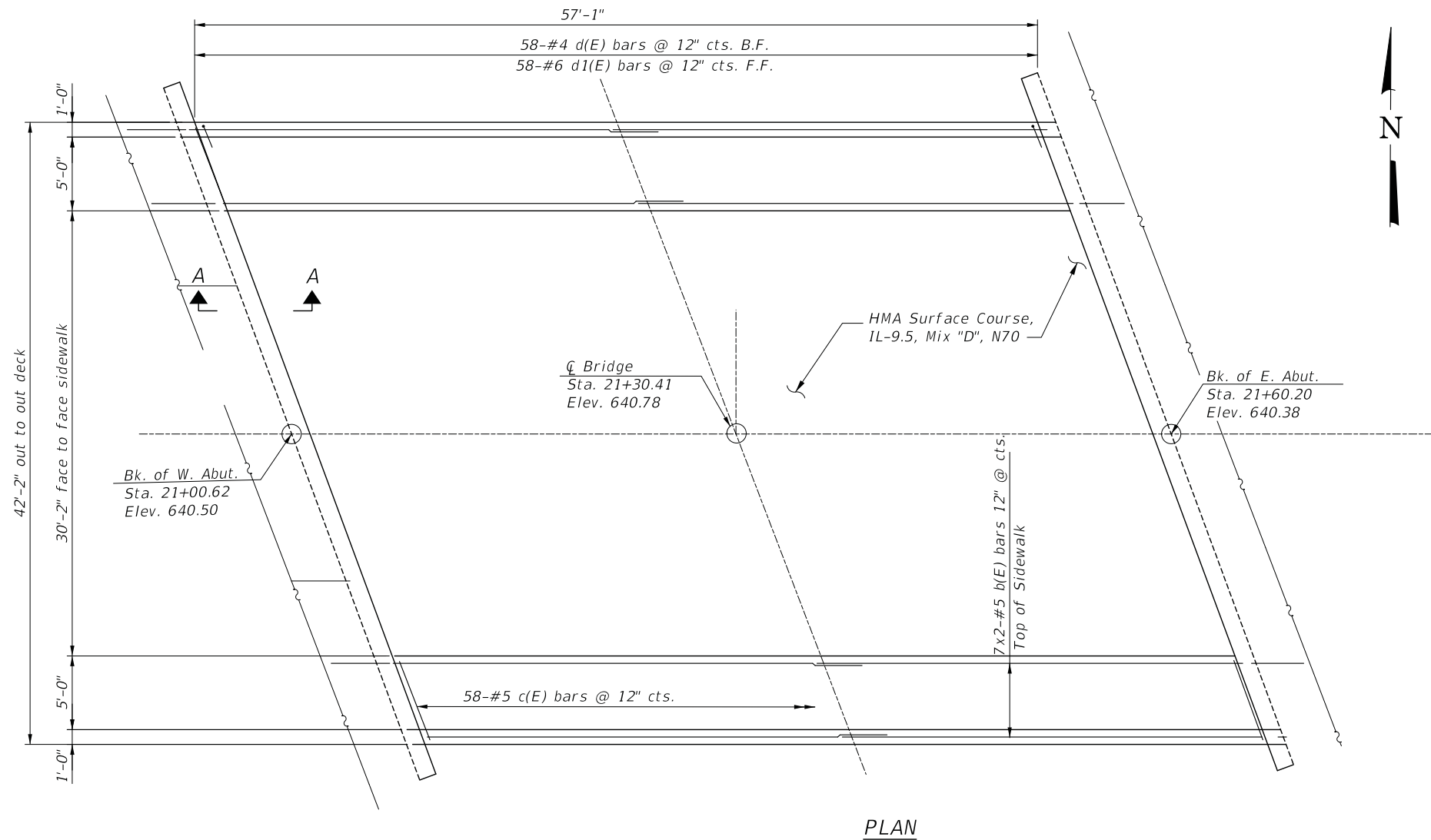
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DEPARTMENT OF TRANSPORTATION**

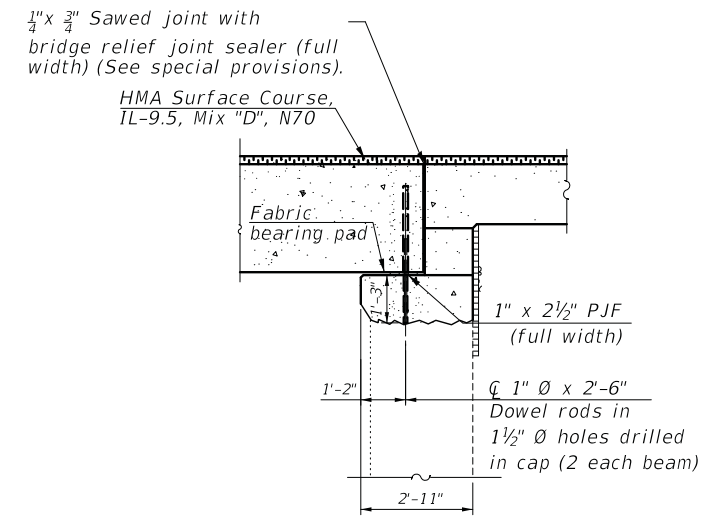
**PARKVIEW DRIVE - BRIDGE RECONSTRUCTION
GENERAL NOTES AND BILL OF MATERIALS**

SHEET OF SHEETS

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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3000			CONTRACT NO. 61J43	
		ILLINOIS	FED. AID PROJECT	

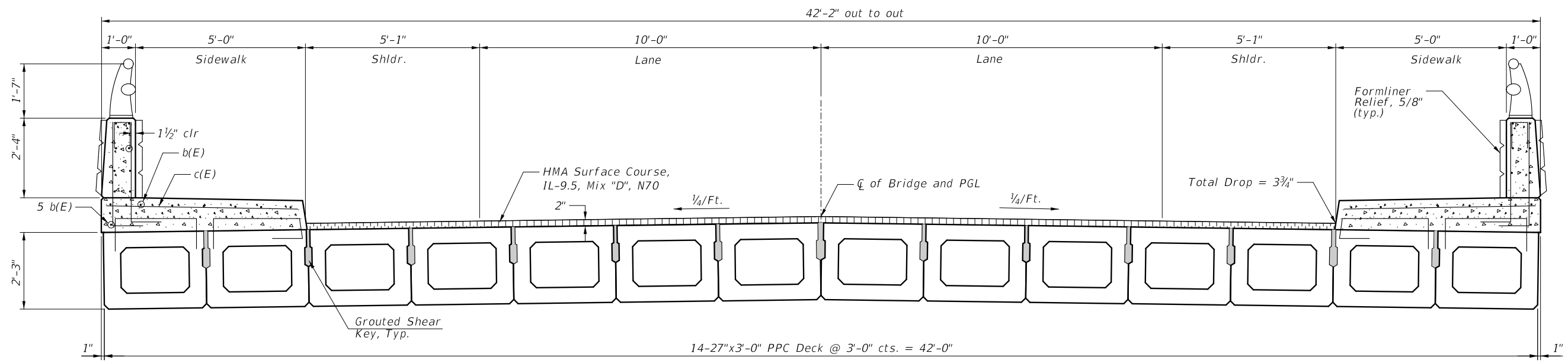


PLAN



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

Notes:
See sheet S-7 for fabric bearing pad details.



CROSS SECTION
(Looking East)

Minimum Bar Lap
#4 bar = 2'-2"
#5 bar = 3'-2"

MODEL: Default
FILE NAME: N:\NORTH LAKE\940032DC187\Struct\03-940032DC187-Parkview-Supers-01.sht

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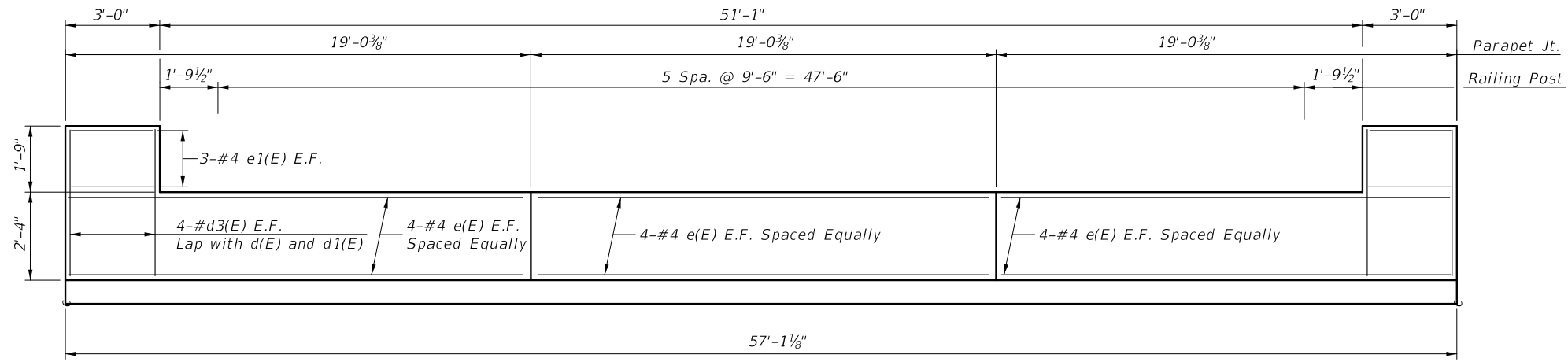
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARKVIEW DRIVE - BRIDGE RECONSTRUCTION
SUPERSTRUCTURE**

SHEET OF SHEETS

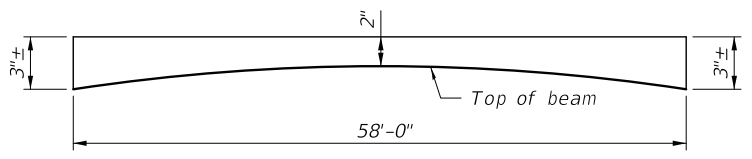
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4070	20-00098-00-BR	COOK	48	22
3000				CONTRACT NO. 61J43

ILLINOIS FED. AID PROJECT



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

BRIDGE SIDEWALK PARAPET ELEVATION

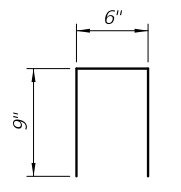


ANTICIPATED HMA SURFACE COURSE PROFILE
(For information only)

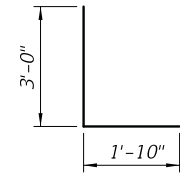
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b(E)	32	#5	29'-11"	—
c(E)	116	#5	6'-0"	—
d(E)	116	#4	4'-10"	L
d ₁ (E)	116	#6	4'-10"	L
d ₂ (E)	24	#4	2'-0"	□
d ₃ (E)	32	#6	3'-9"	—
e(E)	48	#4	18'-8"	—
e ₁ (E)	24	#4	2'-8"	—
Reinforcement Bars, Epoxy Coated			Pound	3,790
Concrete Superstructure			Cu. Yd.	35.7
Hot-Mix Asphalt Surface Course, Mix D, N 70			Ton	27

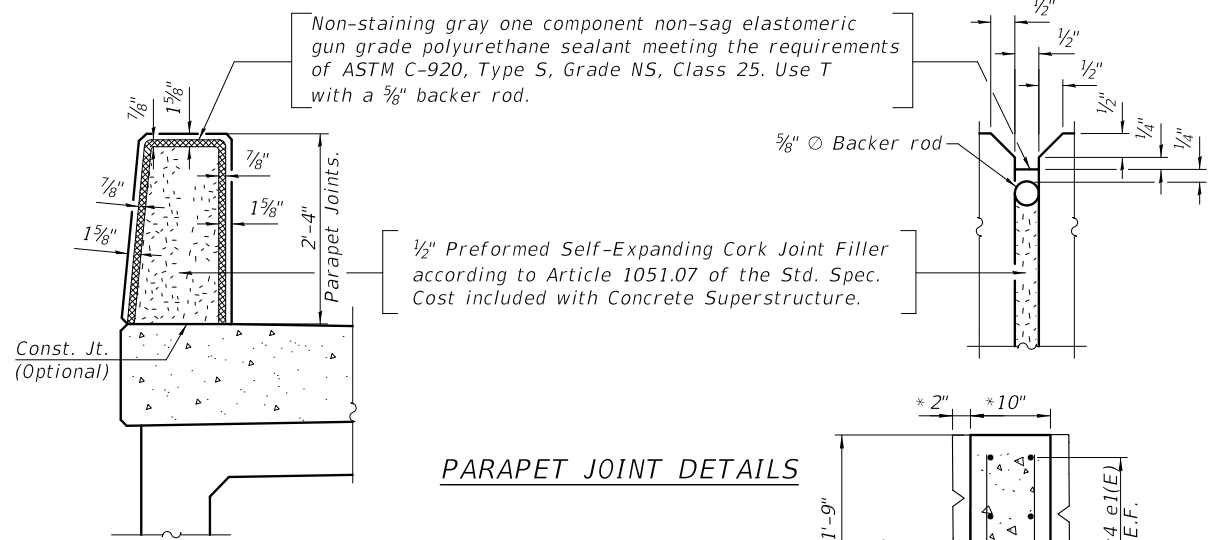
Bars indicated thus 1 x 2 -#4 etc. indicates 1 line of bars with 2 lengths per line.



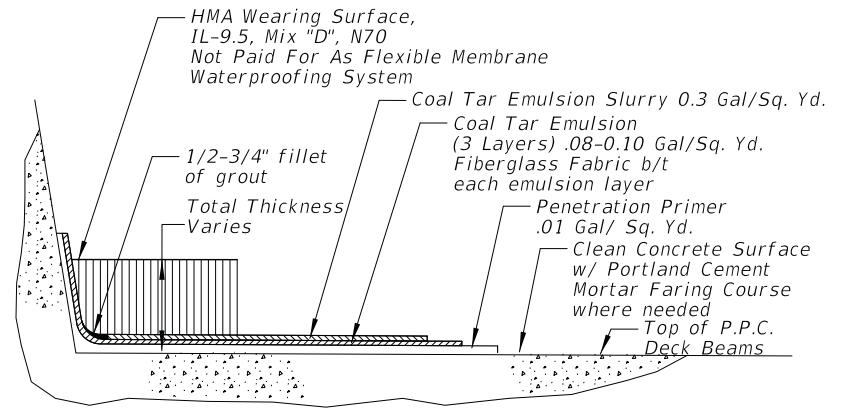
BAR d₂(E)



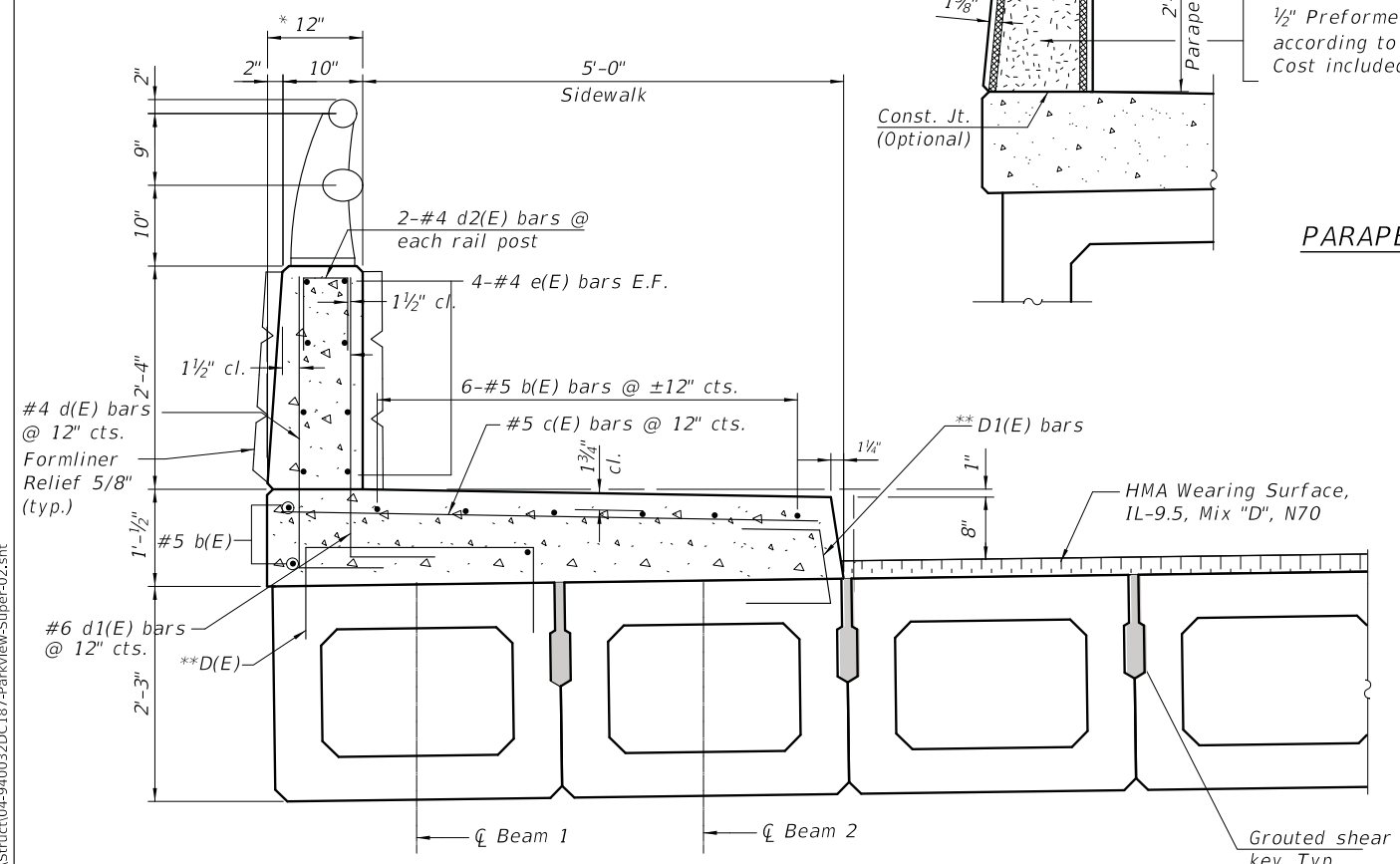
BARS d(E) & d₁(E)



PARAPET JOINT DETAILS

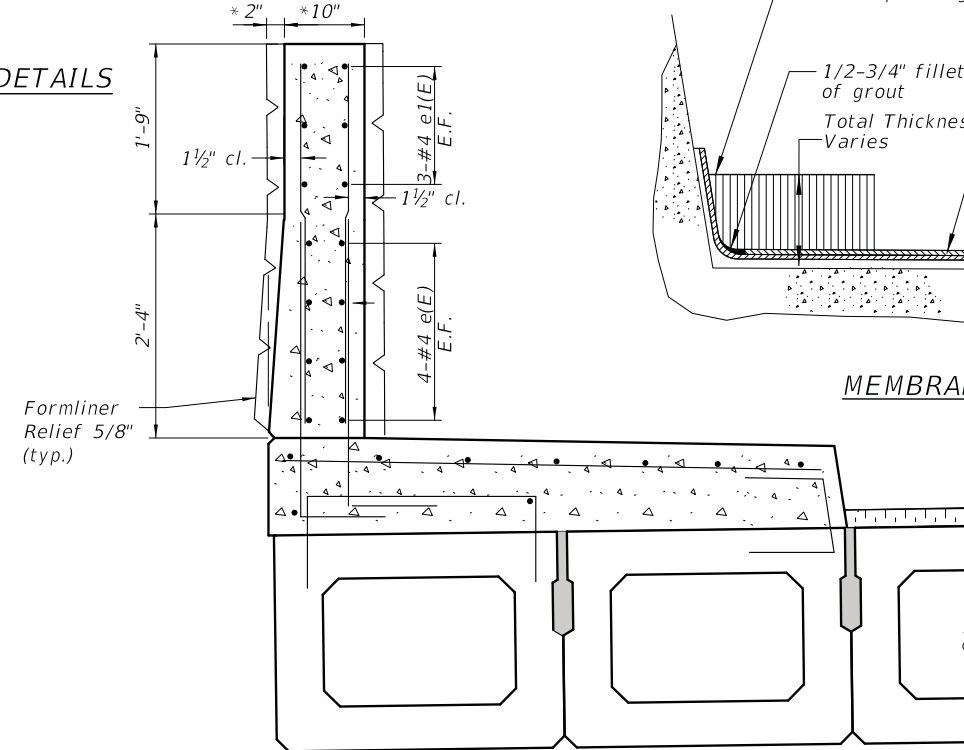


MEMBRANE WATERPROOFING SECTION



SECTION THRU PARAPET AT MIDSPAN

** Place #4 D (E) and D1 (E) bars at 9" cts. in beam 1 and beam 2. Beam 13 and beam 14 will be mirror image. D(E) and D1 (E) bars included in cost of Precast Prestressed Concrete Deck Beam (27" depth).
* Dimensions are for barrier only. Add 5/8" for formliner relief to each side of barrier.



SECTION THRU PARAPET AT ENDPST

- NOTES:**
1. Terminate Membrane Waterproofing 2" Up Face of Curb.
 2. Membrane placement shall begin at low point.

MODEL: Default
FILE NAME: N:\NORTH LAKE\940032DC187\Struct\04-940032DC187-Parkview-Super-02.sht

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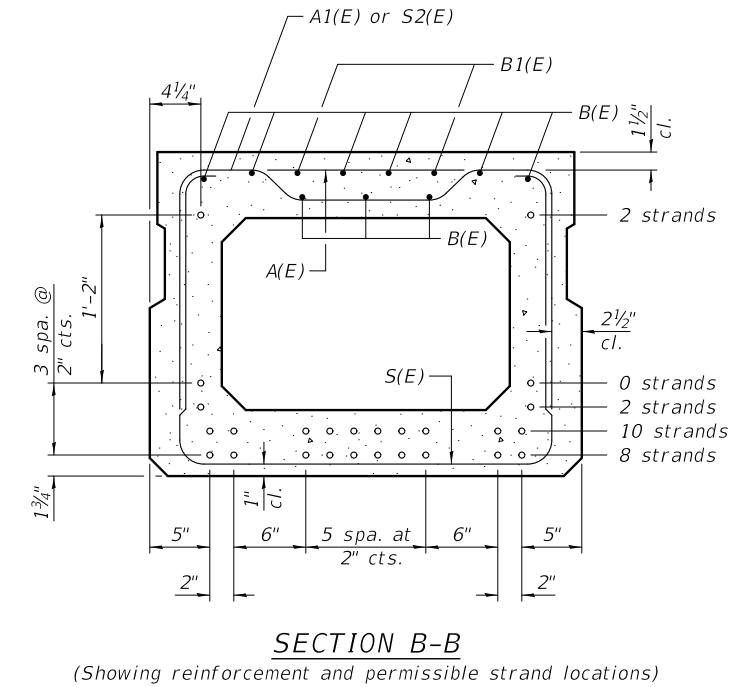
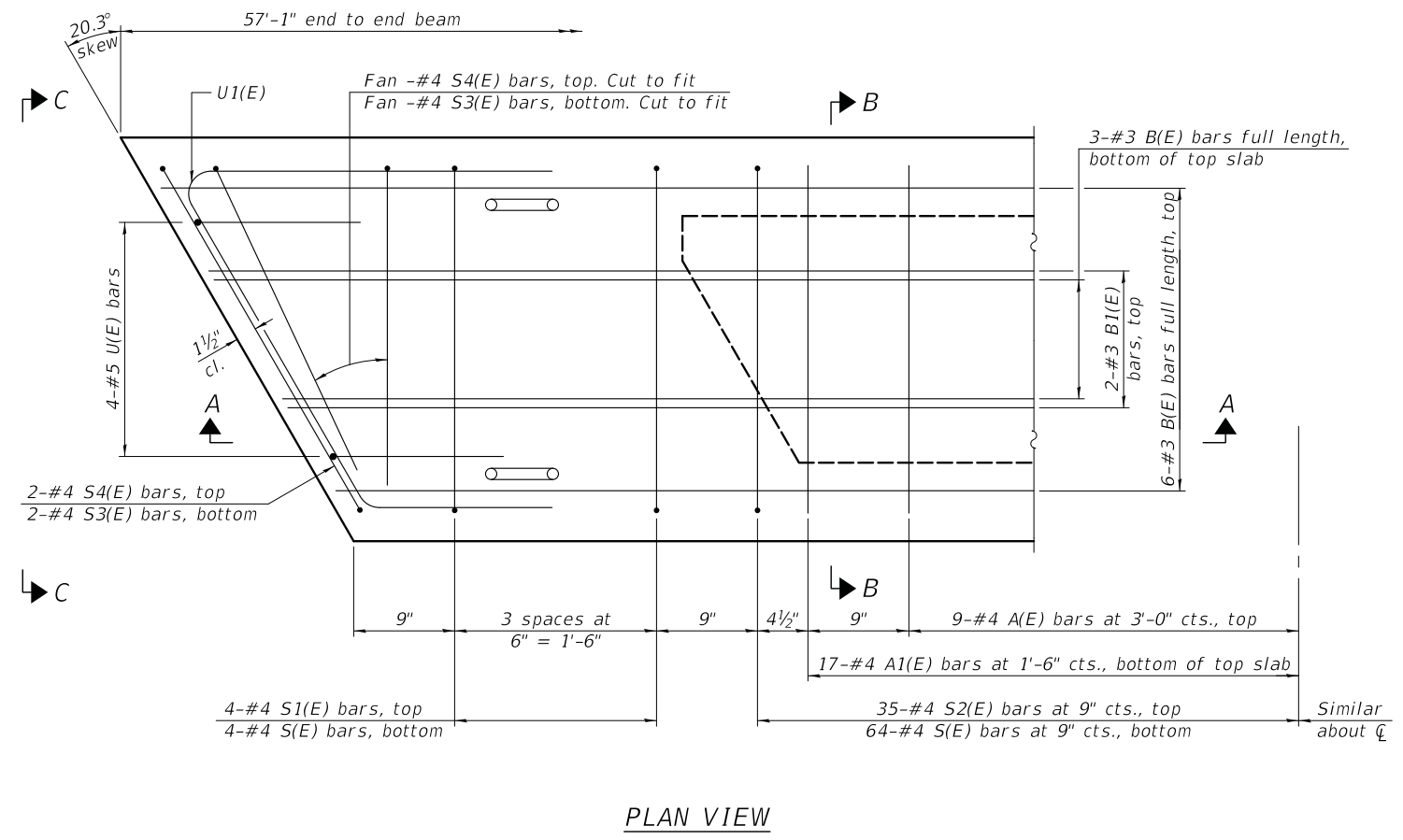
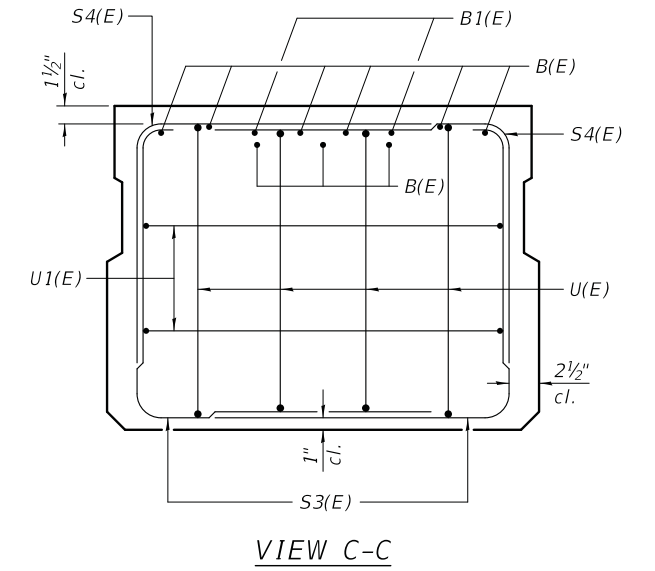
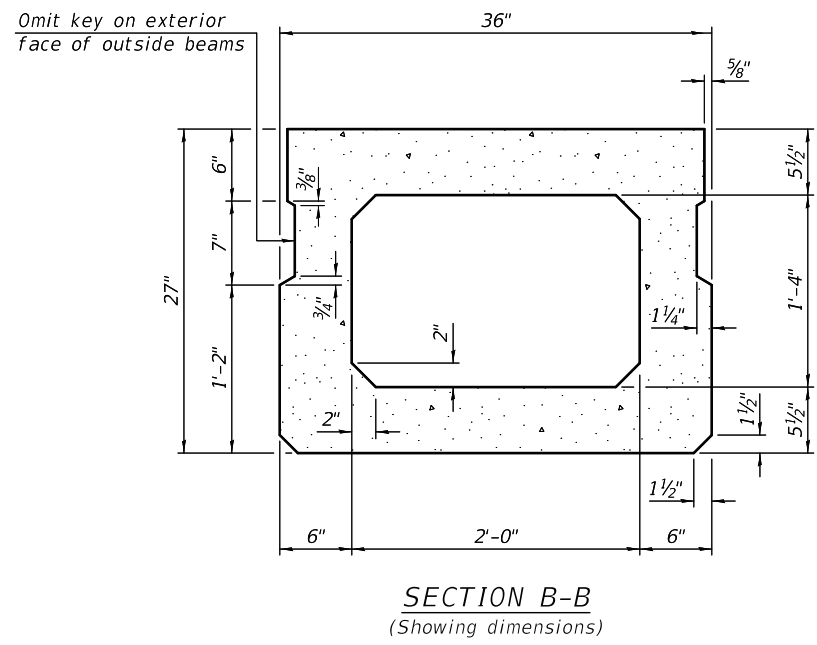
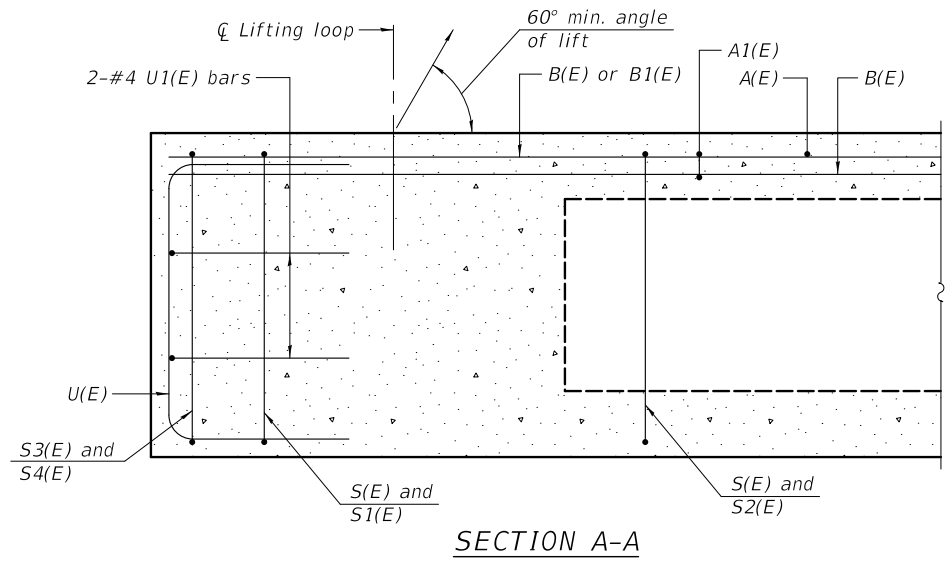
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKVIEW DRIVE - BRIDGE RECONSTRUCTION
SUPERSTRUCTURE DETAILS

SHEET OF SHEETS

MUN. RT.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
4070	20-00098-00-BR	COOK	48	23
3000	CONTRACT NO. 61J43			
ILLINOIS		FED. AID PROJECT		



BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	17	#4	2'-7"	—
A1(E)	34	#4	2'-10"	—
B(E)	18	#3	29'-7"	—
B1(E)	4	#3	10'-0"	—
S(E)	77	#4	7'-5"	⌋
S1(E)	8	#4	5'-11"	⌋
S2(E)	69	#4	6'-2"	⌋
S3(E)	10	#4	4'-11"	⌋
S4(E)	10	#4	4'-2"	⌋
U(E)	8	#5	4'-6"	⌋
U1(E)	4	#4	6'-2"	⌋

Note:
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

Note:
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MINIMUM BAR LAP
#3 bar = 1'-6"

Note:
See sheet S-7 for additional details and Bill of Material.

MODEL: Default
FILE NAME: N:\NORTH LAKE\940032DC187\Struct\06-940032DC187-Parkview-PPCBeamDetail-03.sht

PD-2736-R

1-1-2020

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PLOT SCALE =	DRAWN	REVIS
PLOT DATE =	CHECKED	REVIS

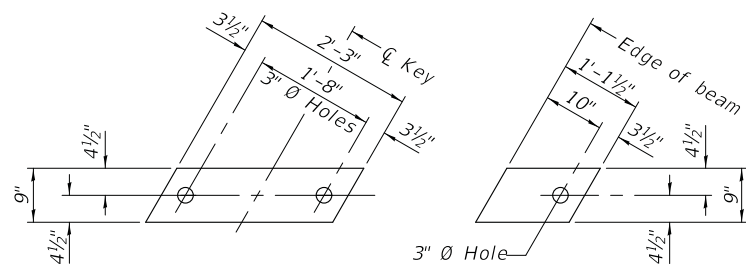
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARKVIEW DRIVE - BRIDGE RECONSTRUCTION
27"x36" PPC DECK BEAM DETAILS

MUN. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	25
3000			CONTRACT NO. 61J43	

SHEET OF SHEETS

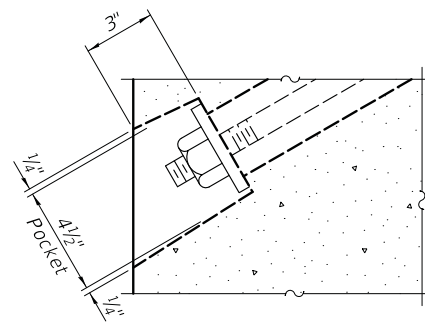
ILLINOIS FED. AID PROJECT



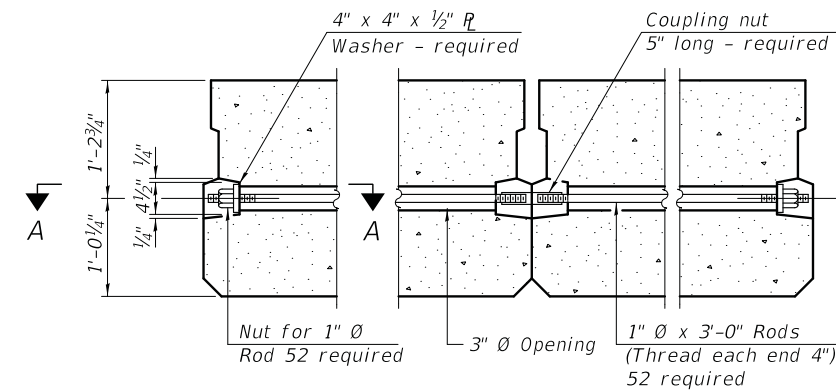
FABRIC BEARING PAD
(Interior) **FABRIC BEARING PAD**
(Exterior)

FIXED

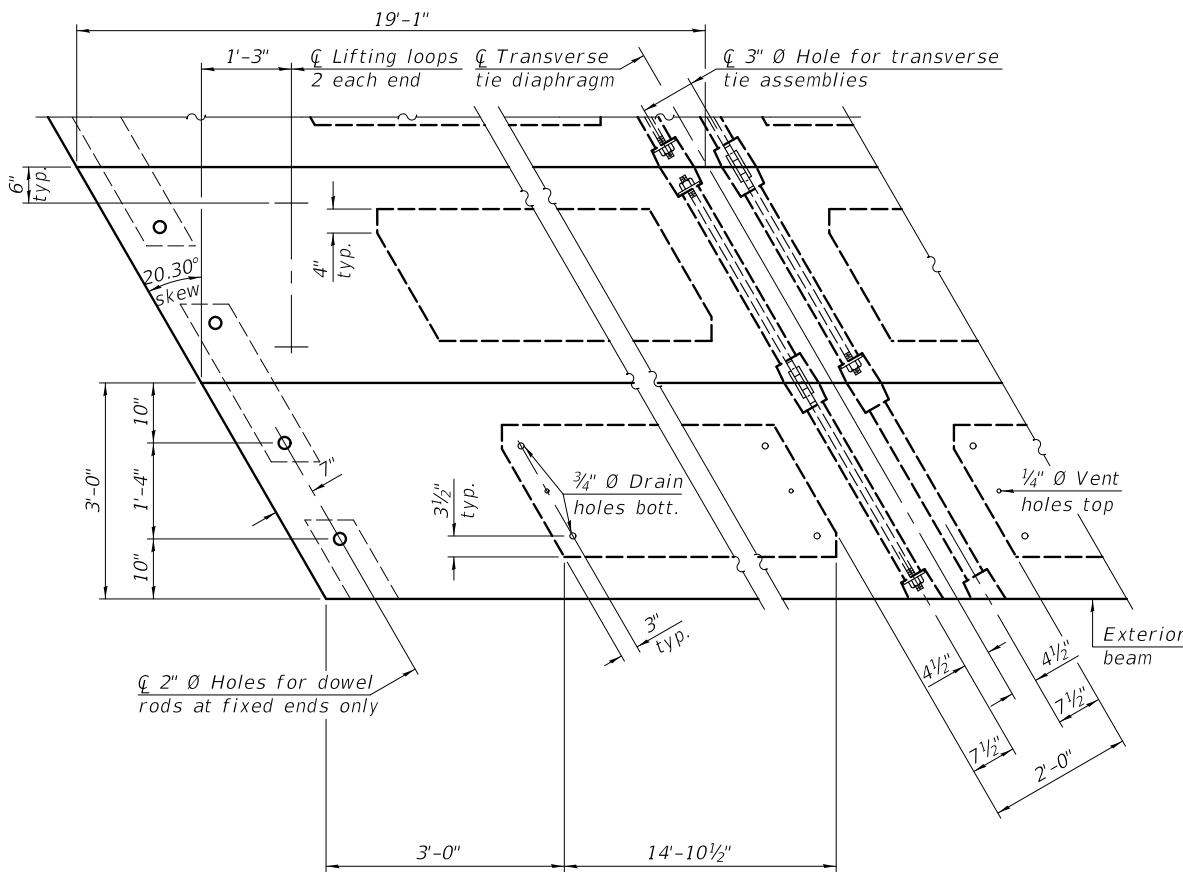
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pads shall be bonded to the substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

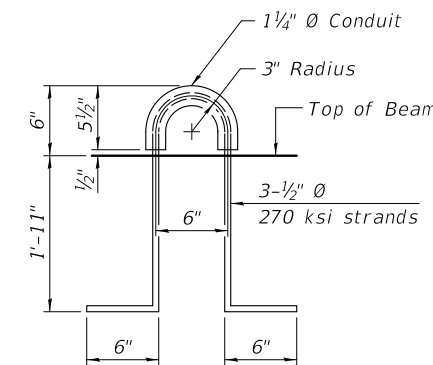
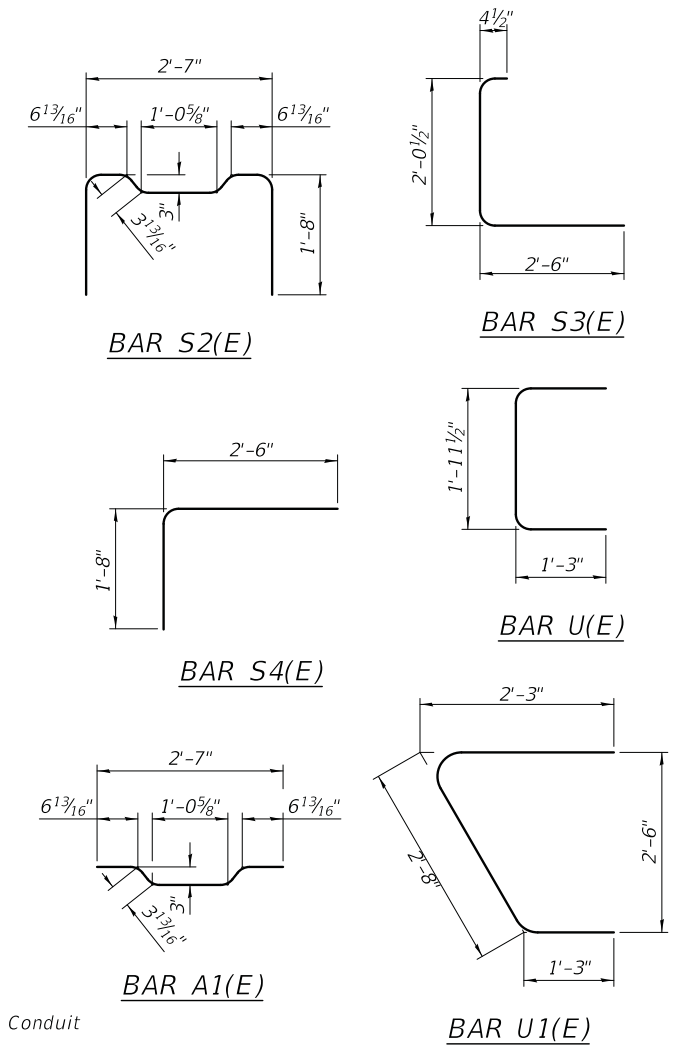


PLAN VIEW

Note:
Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft. 2,398
---	---------------

See sheet S-6 for additional details.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

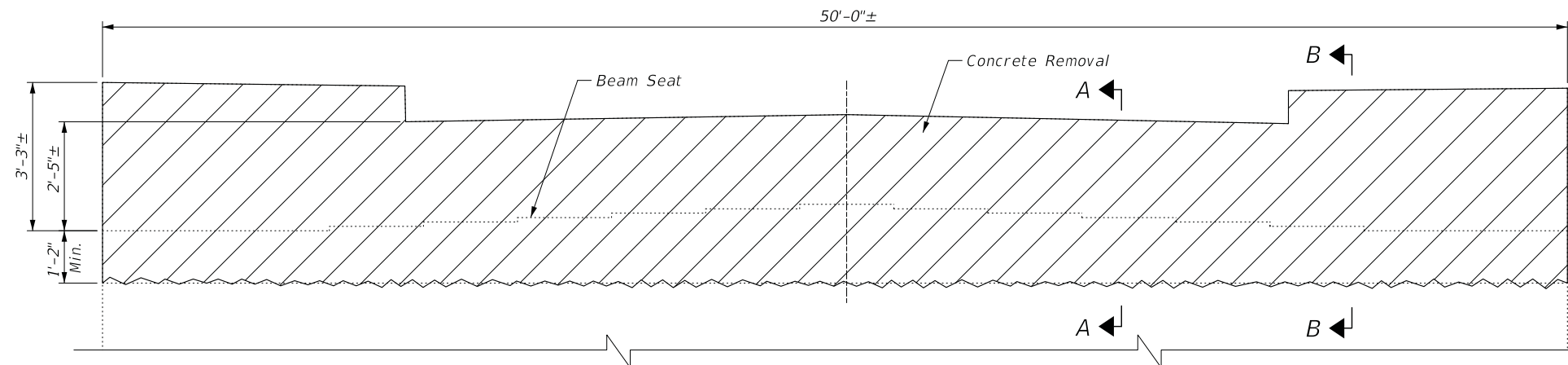
**PARKVIEW DRIVE - BRIDGE RECONSTRUCTION
27"x36" PPC DECK BEAM DETAILS**

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	26
3000			CONTRACT NO. 61J43	

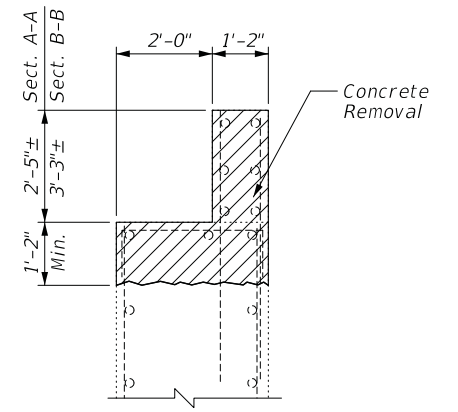
SHEET OF SHEETS

ILLINOIS FED. AID PROJECT

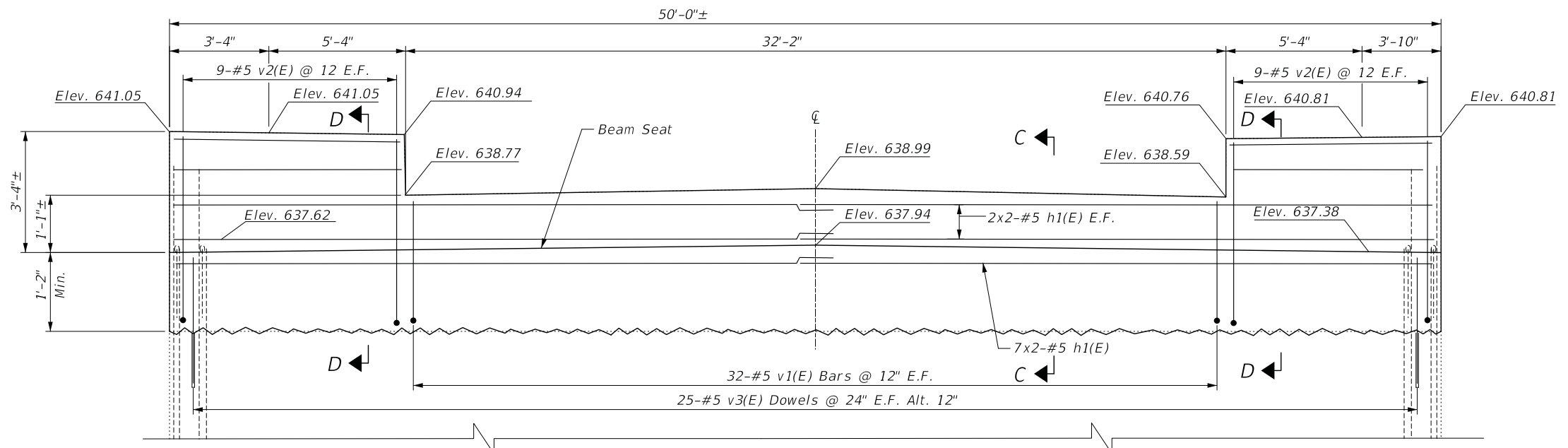
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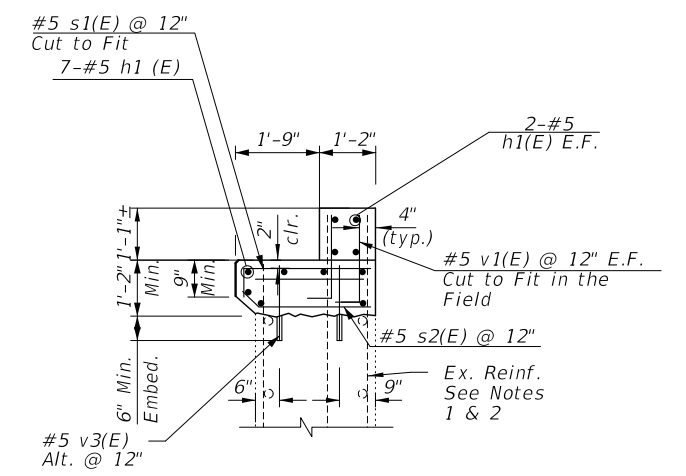
REMOVAL DETAIL - EXISTING WEST ABUTMENT



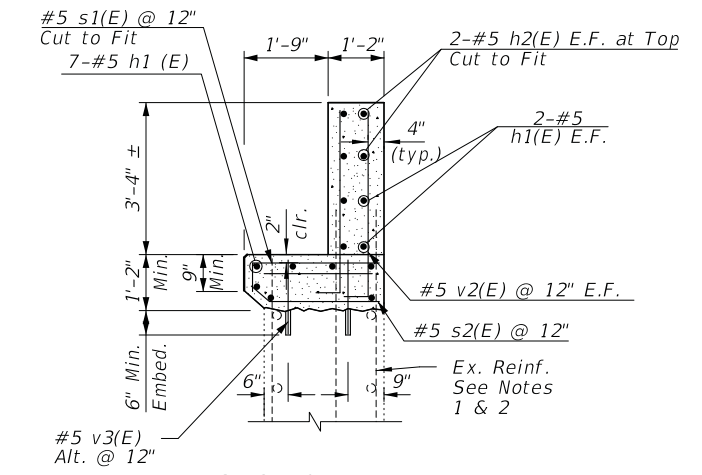
**SECTION A-A & B-B
EXISTING ABUTMENT TYPICAL SECTION**



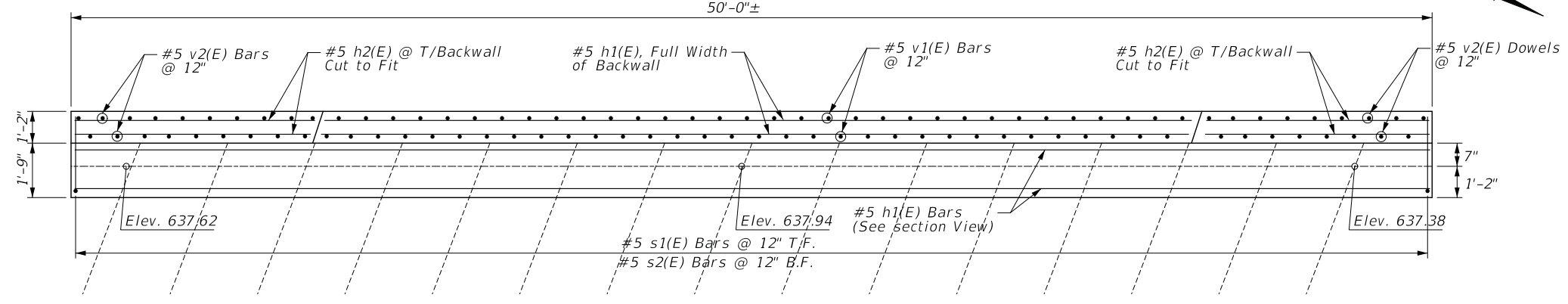
ELEVATION - PROPOSED WEST ABUTMENT
(Backwall Elevations @ B/Abutment. Beam Seat Elevations @ CL of Bearing)



SECTION C-C



SECTION D-D



PLAN - PROPOSED WEST ABUTMENT

- NOTES:**
- Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal".
 - Any reinforcement bars that are damaged during concrete removal operation shall be repaired using an approved bar splicer or anchorage system. Cost included with "Concrete Removal".
 - The cost of installing dowels is included with "Reinforcement Bars, Epoxy Coated".

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PLOT DATE =	CHECKED ,	REVISED ,

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

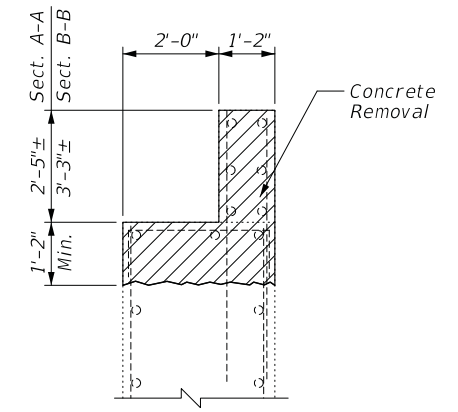
**PARKVIEW DRIVE - BRIDGE RECONSTRUCTION
WEST ABUTMENT**

SHEET OF SHEETS

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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3000			CONTRACT NO. 61J43	
		ILLINOIS	FED. AID PROJECT	

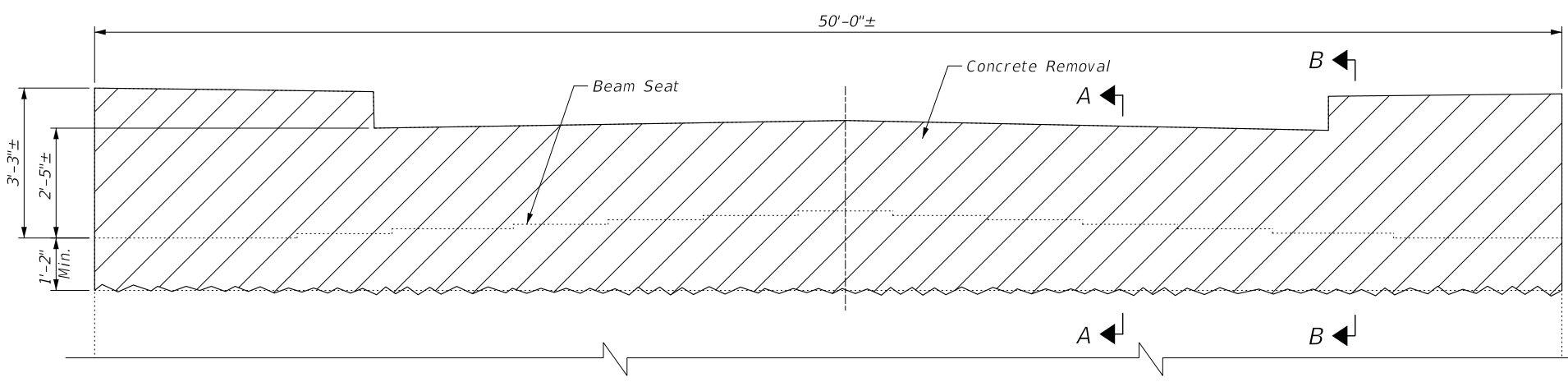
**SUBSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h1 (E)	44	5	26'-4"	
h2 (E)	16	5	9'-4"	
v1 (E)	128	5	2'-9"	
v2 (E)	72	5	4'-9"	
v3 (E)	100	5	1'-10"	
S1 (E)	100	5	3'-2"	
S2 (E)	100	5	2'-11"	
Reinforcement Bars, Epoxy Coated			Pound	2,910
Concrete Structures			Cu. Yd.	23.3

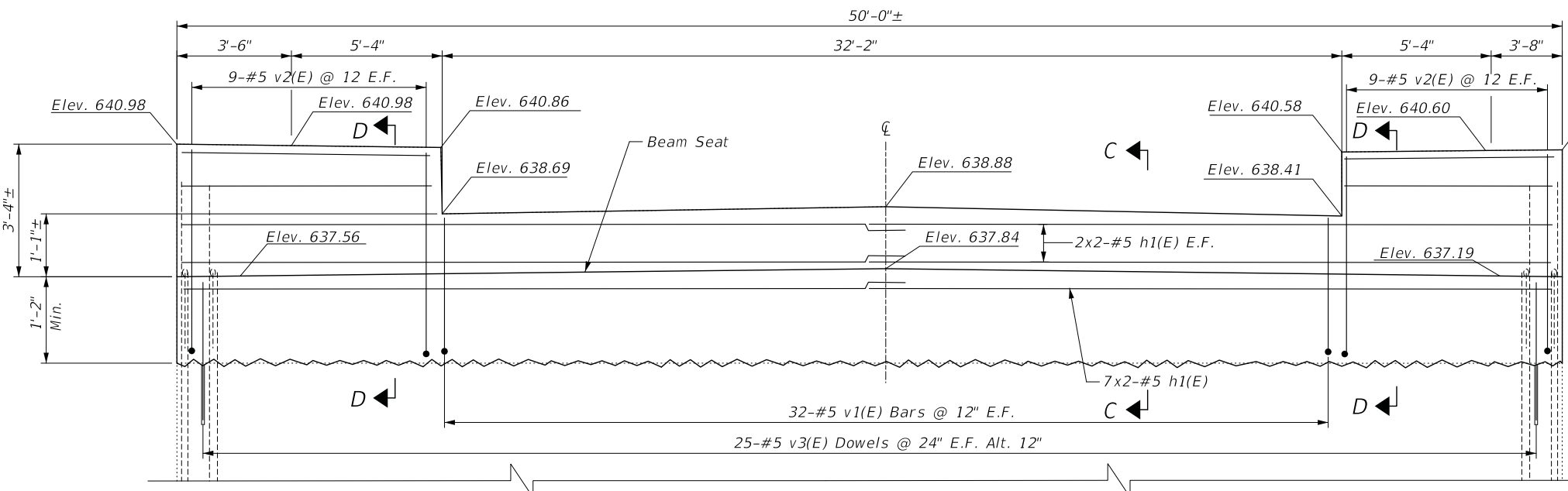


Bars indicated thus 1 x 3-#4 etc. indicates 1 line of bars with 3 lengths per line.

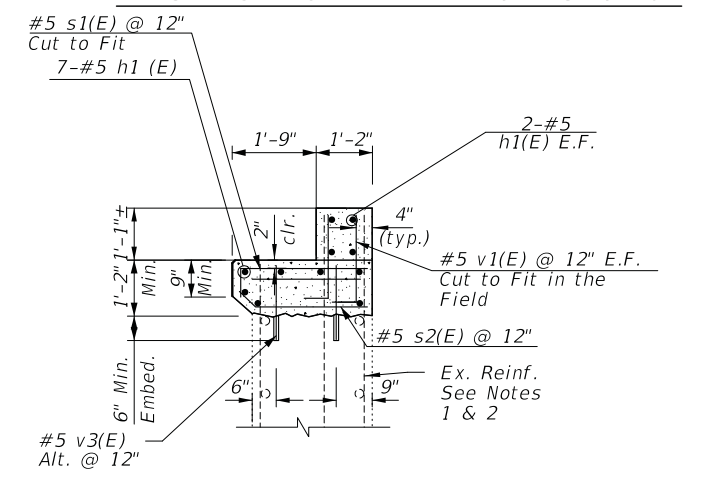
**SECTION A-A & B-B
EXISTING ABUTMENT TYPICAL SECTION**



REMOVAL DETAIL - EXISTING EAST ABUTMENT

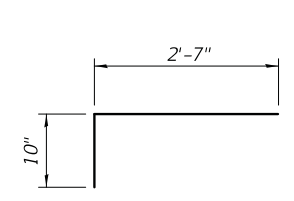


ELEVATION - PROPOSED EAST ABUTMENT
(Backwall Elevations @ B/Abutment. Beam Seat Elevations @ CL of Bearing)

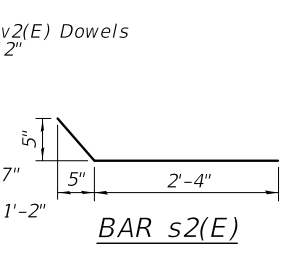


SECTION C-C

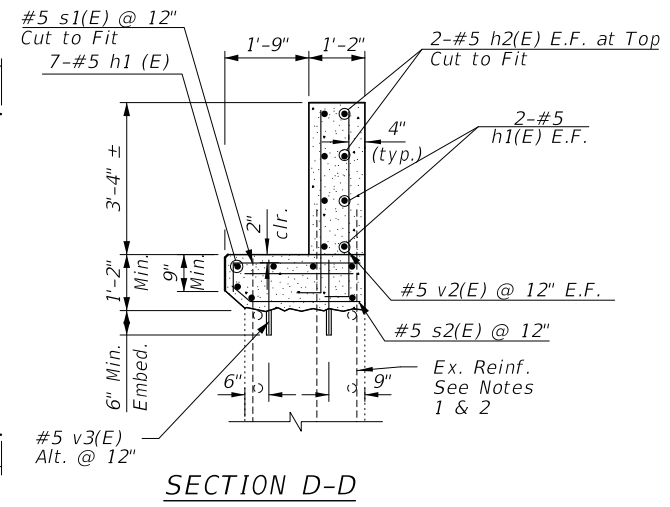
BARS v1(E) & v2(E)



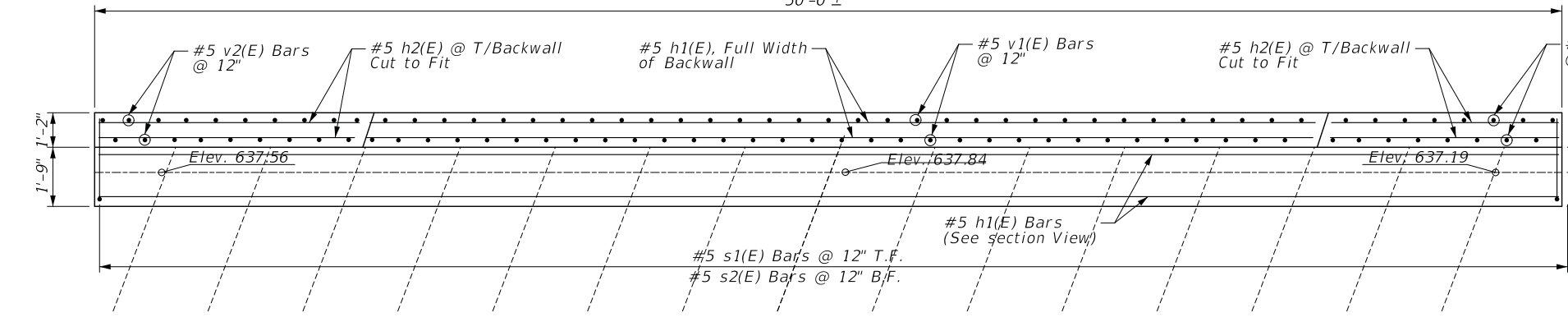
BAR s1(E)



BAR s2(E)



SECTION D-D



PLAN - PROPOSED EAST ABUTMENT

NOTES:

- Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal".
- Any reinforcement bars that are damaged during concrete removal operation shall be repaired using an approved bar splicer or anchorage system. Cost included with "Concrete Removal".
- The cost of installing dowels is included with "Reinforcement Bars, Epoxy Coated".

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

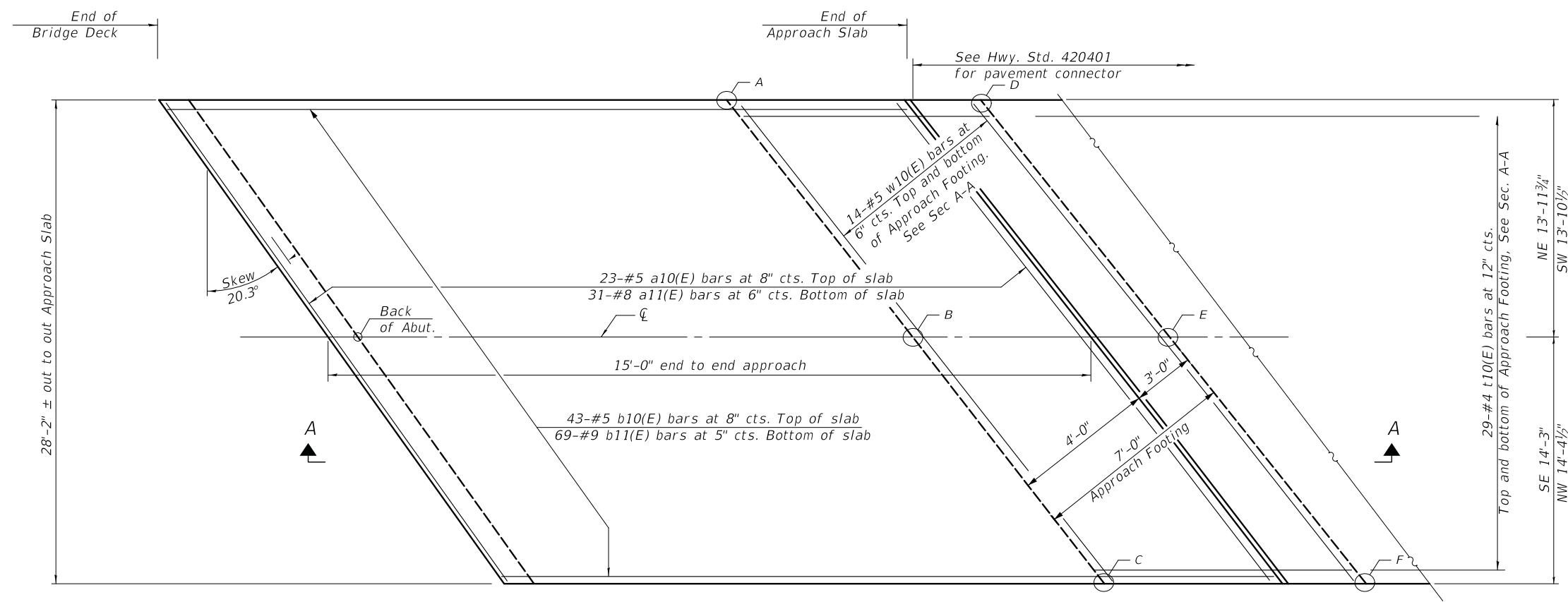
**PARKVIEW DRIVE - BRIDGE RECONSTRUCTION
EAST ABUTMENT**

SHEET OF SHEETS

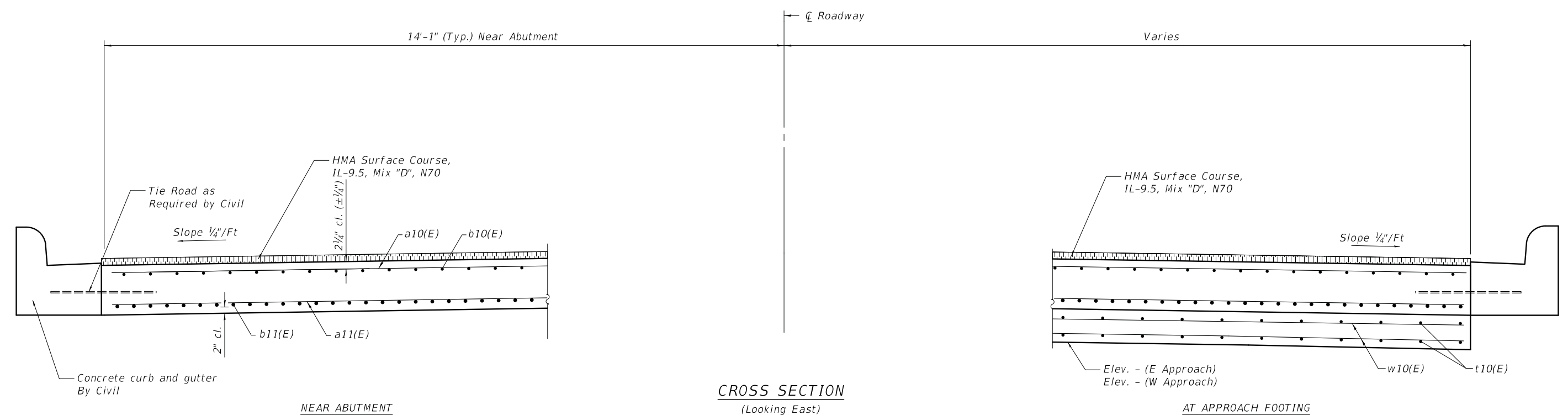
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4070	20-00098-00-BR	COOK	48	28
3000			CONTRACT NO. 61J43	
		ILLINOIS	FED. AID PROJECT	

TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

Point/ Location	East Approach		Point/ Location	West Approach	
	Top	Bottom		Top	Bottom
A	638.64	637.81	A	638.77	637.93
B	638.79	637.95	B	638.98	638.14
C	638.32	637.49	C	638.59	637.76
D	638.32	637.49	D	638.60	637.77
E	638.42	637.58	E	638.81	637.97
F	637.90	637.07	F	638.42	637.59



EAST APPROACH SLAB PLAN
(WEST APPROACH SLAB SIMILAR BY 180° ROTATION)



CROSS SECTION
(Looking East)

MODEL: Default
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PARKVIEW DRIVE - BRIDGE RECONSTRUCTION
APPROACH SLAB

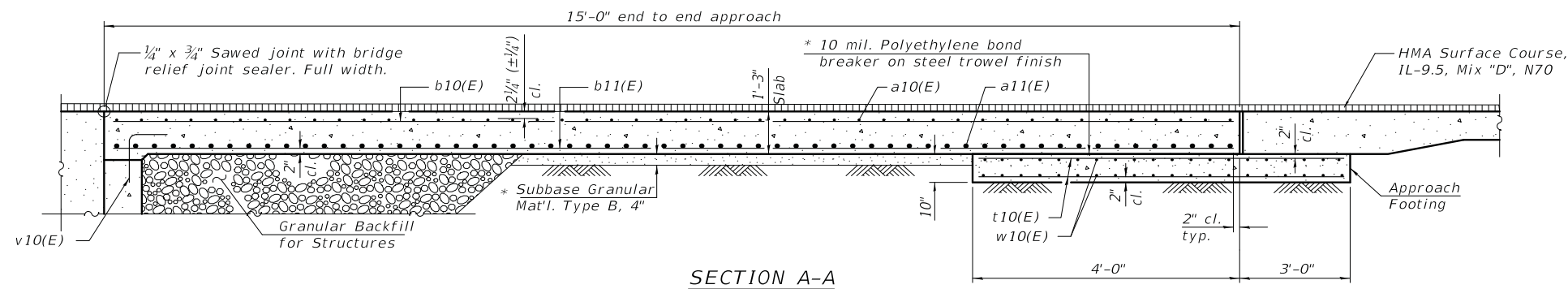
SHEET OF SHEETS

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	29
3000	CONTRACT NO. 61J43			

ILLINOIS FED. AID PROJECT

Notes:

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet S-2



SECTION A-A

**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10 (E)	46	5	30'-1"	—
a11 (E)	62	8	30'-1"	—
b10 (E)	86	5	14'-8"	—
b11 (E)	138	9	14'-8"	—
v10 (E)	58	5	3'-4"	┌
t10 (E)	116	4	7'-2"	—
w10 (E)	56	5	30'-1"	—
Concrete Superstructure (Approach Slab)			Cu. Yd.	78.6
Concrete Structures			Cu. Yd.	13.0
Reinforcement Bars, Epoxy Coated			Pound	17,130
Hot-Mix Asphalt, Surface Course Mix D, N70			Ton	11

BAIA-CIP-39CS-R(≤30°) 10-12-2021

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARKVIEW DRIVE - BRIDGE RECONSTRUCTION
APPROACH SLAB DETAILS**

SHEET OF SHEETS

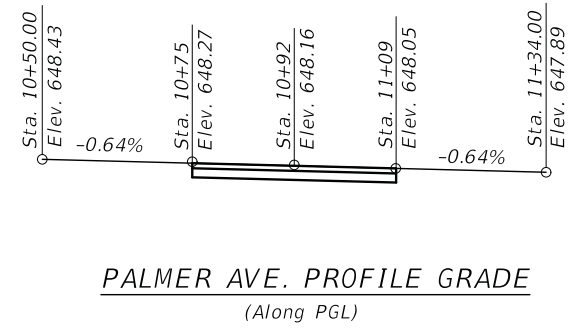
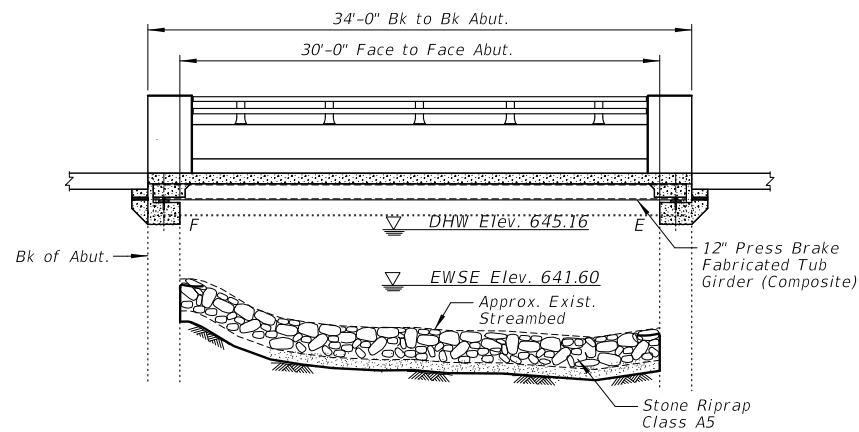
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4070	20-00098-00-BR	COOK	48	30
3000			CONTRACT NO. 61J43	
		ILLINOIS	FED. AID PROJECT	

Benchmark: OSBM 17-5, square cut on southwest corner of wingwall for Palmer Bridge over Addison Creek Elev. 648.46

Existing Structures: The existing structure, SN 016-7620, is a single span bridge. The structure was built in 1961. The original design plans are not available. The bridge has an overall length of 34'-6"± back to back of abutments. The deck provides one 12'-0" traffic lane, a 4'-3"± shoulder in each direction, a 5'-0" sidewalk along the south side with a parapet along each end. The total out to out of deck is 40'-0". The superstructure consists of 7-W27x76 steel beams with a 7½" concrete deck. The abutment types are unknown. There have been no repairs since the original construction.

Traffic: The bridge will be closed during construction with traffic detoured

Salvage: None



DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition & Interims

DESIGN STRESSES

FIELD UNITS (New Construction)

f'c = 3,500 psi (Substructure)
f'c = 4,000 psi (Superstructure)
fy = 60,000 psi (Reinforcement)

PREFABRICATED UNITS

f'c = 6,500 psi
fy = 60,000 psi (Reinforcement)
fy = 65,000 psi (A572 Grade 65) (Primary Members)
fy = 50,000 psi (M270 Grade 50) (Secondary Members)

FIELD UNITS (EXIST. CONSTRUCTION)

f'c = 2,500 psi
fy = 40,000 psi (Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = A
Horizontal Bedrock Acceleration Coefficient (A) = 0.036g
Site Coefficient (S) = 1.2

LOADING HL-93

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

WATERWAY INFORMATION

Drainage Area = 6.8 Square Miles Low Grade Elev. 645.50 @ East of Bridge

Flood Yr.	Freq. Q	C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
10	161	214	214	644.35	0.01	0.01	644.36	644.36	
Design	30	273	235	238	645.15	0.02	0.01	645.17	645.16
Base	100	473	237/79	265/79	646.31	0.02	0.01	646.33	646.32
Scour Design	200	579	234/204	265/204	646.85	0.01	0.01	646.86	646.86
Overtopping	~50	374	235/5	259/5	646.68	0.03	0.01	646.71	646.69
Max. Calc.	500	780	235/465	265/465	647.58	0.02	0.01	647.60	647.59

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)			Item 113
	E. Abut.	W. Abut.		
Q100	632.28	632.28		5
Q200	634.47	634.47		
Design	631.97	631.97		
Check	-	-		

ADDISON CREEK
RE-BUILT 2022 BY
CITY OF NORTHLAKE
SEC. 20-00098-00-BR
STATION 10+92.00
STR. NO. 016-7620 LOADING HL-93

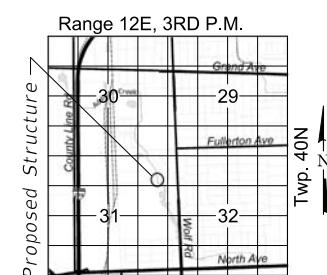
NAME PLATE

See Std. 515001
Existing name plate shall be cleaned and relocated next to new name plate. Cost include with Name Plates.

I Certify That To The Best Of My Knowledge, Information And Belief, This Bridge Design Is Structurally Adequate For The Design Loading Shown On The Plans. The Design Is An Economical One For The Style Of Structure And Complies With Requirements Of The Current "AASHTO Standard Specification For Highway And Bridges".



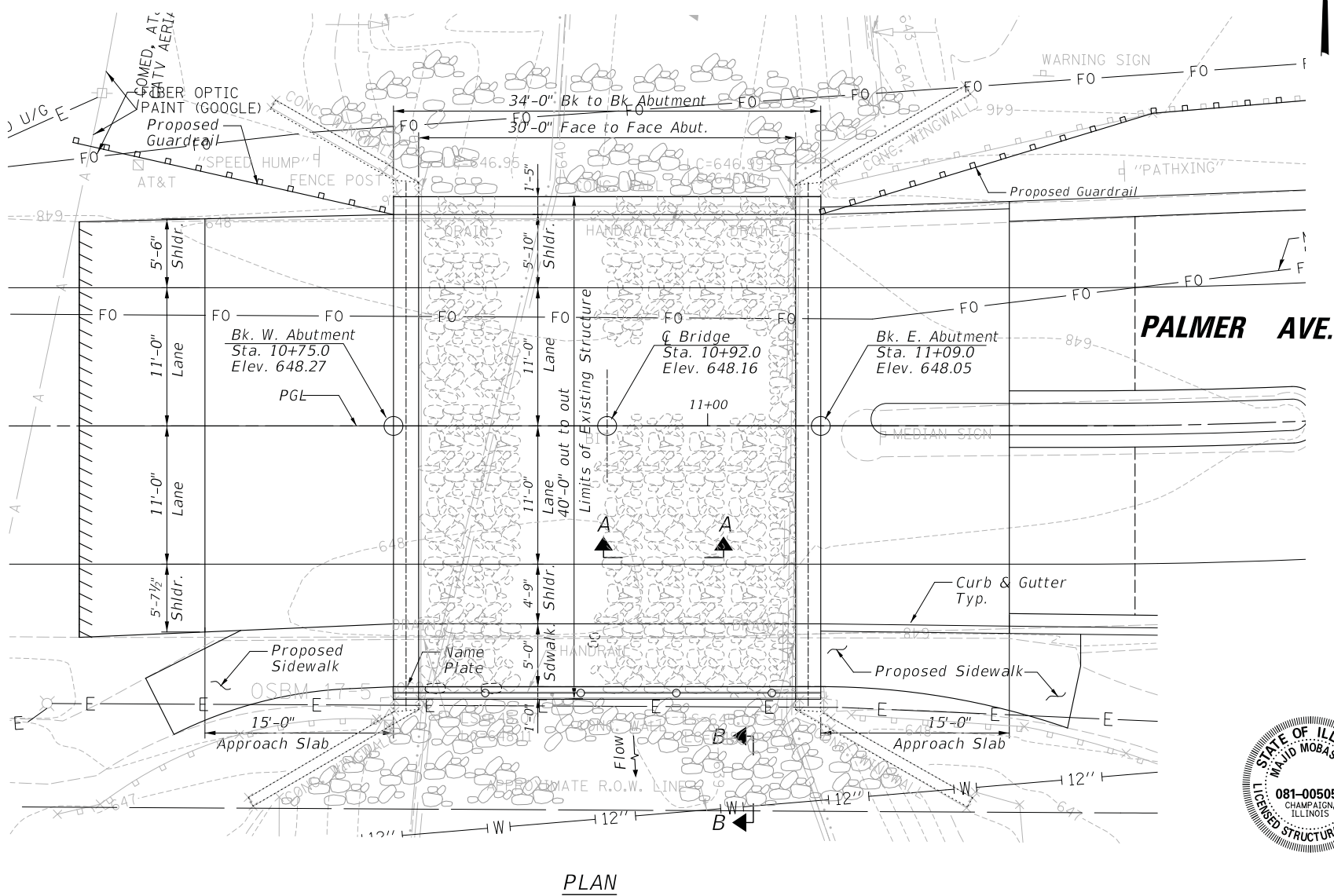
Majid Mobasser
MAJID MOBASSERI
ILLINOIS REGISTRATION No. 081-005058 STRUCTURAL ENGINEER
EXPIRATION DATE: 11/30/24



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

**PALMER AVENUE OVER
ADDISON CREEK
SECTION 20-00098-00-BR
COOK COUNTY
STRUCTURE No. 016-7620
STATION 10+92.00**



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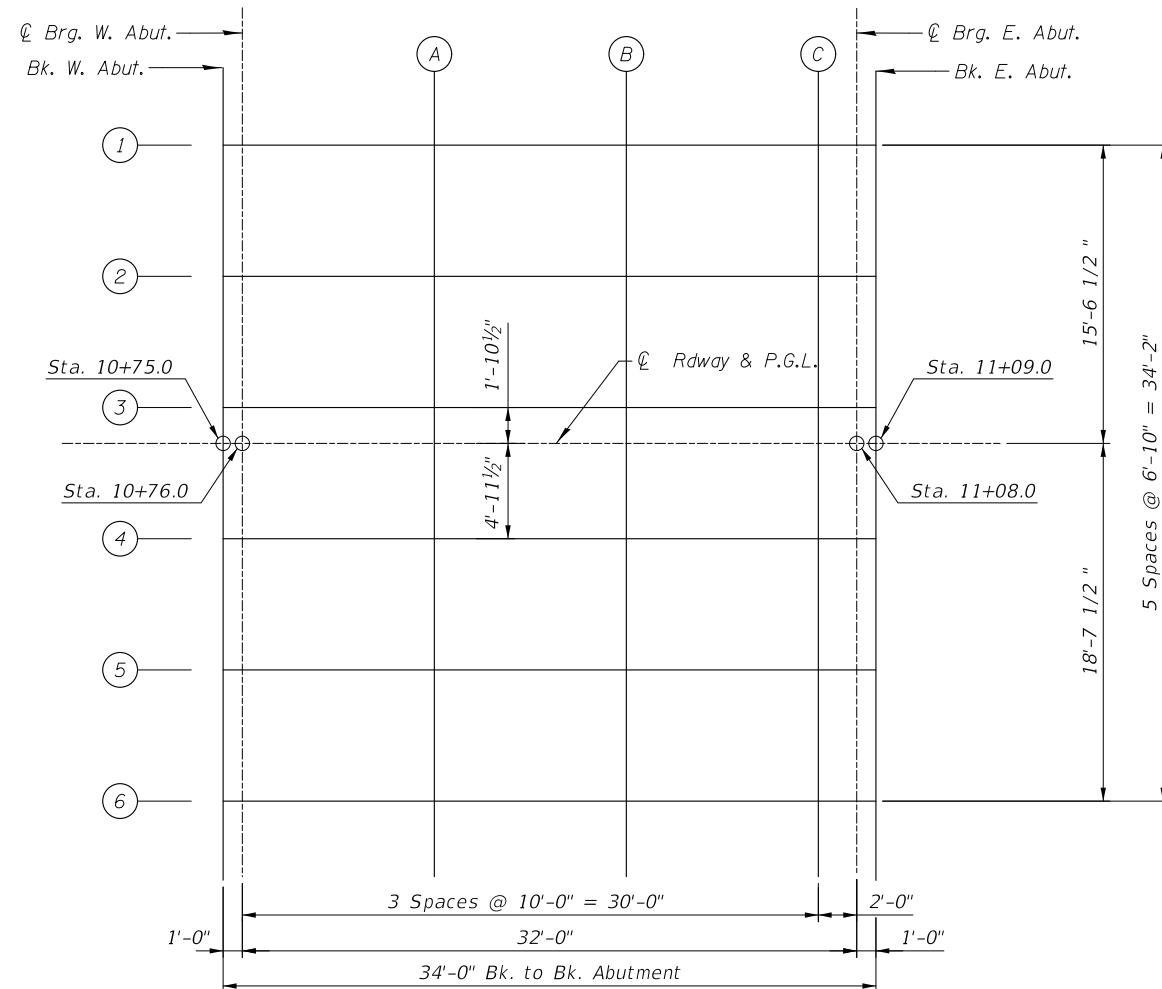
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PLOT DATE =	CHECKED	REVISIONS
		REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PALMER AVENUE - BRIDGE RECONSTRUCTION
PLAN AND PROFILE**

SHEET OF SHEETS

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070 3000	20-00098-00-BR	COOK	48	31
ILLINOIS FED. AID PROJECT CONTRACT NO. 61J43				



BEAM 1

Locations	Stations	Offset	Theoretical Grade Elevations	Elevations Adjusted For DL Deflections*
BK. West Abutment	10+75.00	-15.375	647.96	
CL Brg. W. Abut	10+77.00	-15.375	647.95	
A	10+85.00	-15.375	647.90	
CL Bridge	10+92.00	-15.375	647.85	
BK. West Abutment	10+95.00	-15.375	647.83	
C	11+05.00	-15.375	647.77	
CL Brg. E. Abut	11+07.00	-15.375	647.76	
BK. East Abutment	11+09.00	-15.375	647.74	

BEAM 2

Locations	Stations	Offset	Theoretical Grade Elevations	Elevations Adjusted For DL Deflections*
BK. West Abutment	10+75.00	-8.5	648.10	
CL Brg. W. Abut	10+77.00	-8.5	648.09	
A	10+85.00	-8.5	648.04	
CL Bridge	10+92.00	-8.5	647.99	
BK. West Abutment	10+95.00	-8.5	647.97	
C	11+05.00	-8.5	647.91	
CL Brg. E. Abut	11+07.00	-8.5	647.89	
BK. East Abutment	11+09.00	-8.5	647.88	

BEAM 3

Locations	Stations	Offset	Theoretical Grade Elevations	Elevations Adjusted For DL Deflections*
BK. West Abutment	10+75.00	-1.67	648.24	
CL Brg. W. Abut	10+77.00	-1.67	648.22	
A	10+85.00	-1.67	648.17	
CL Bridge	10+92.00	-1.67	648.13	
BK. West Abutment	10+95.00	-1.67	648.11	
C	11+05.00	-1.67	648.04	
CL Brg. E. Abut	11+07.00	-1.67	648.03	
BK. East Abutment	11+09.00	-1.67	648.02	

P.G.L

Locations	Stations	Offset	Theoretical Grade Elevations	Elevations Adjusted For DL Deflections*
BK. West Abutment	10+75.00	0.00	648.27	
CL Brg. W. Abut	10+77.00	0.00	648.26	
A	10+85.00	0.00	648.21	
CL Bridge	10+92.00	0.00	648.16	
BK. West Abutment	10+95.00	0.00	648.14	
C	11+05.00	0.00	648.08	
CL Brg. E. Abut	11+07.00	0.00	648.06	
BK. East Abutment	11+09.00	0.00	648.05	

BEAM 4

Locations	Stations	Offset	Theoretical Grade Elevations	Elevations Adjusted For DL Deflections*
BK. West Abutment	10+75.00	7.96	648.11	
CL Brg. W. Abut	10+77.00	7.96	648.10	
A	10+85.00	7.96	648.05	
CL Bridge	10+92.00	7.96	648.00	
BK. West Abutment	10+95.00	7.96	647.98	
C	11+05.00	7.96	647.92	
CL Brg. E. Abut	11+07.00	7.96	647.91	
BK. East Abutment	11+09.00	7.96	647.89	

BEAM 5

Locations	Stations	Offset	Theoretical Grade Elevations	Elevations Adjusted For DL Deflections*
BK. West Abutment	10+75.00	14.792	647.97	
CL Brg. W. Abut	10+77.00	14.792	647.96	
A	10+85.00	14.792	647.91	
CL Bridge	10+92.00	14.792	647.86	
BK. West Abutment	10+95.00	14.792	647.85	
C	11+05.00	14.792	647.78	
CL Brg. E. Abut	11+07.00	14.792	647.77	
BK. East Abutment	11+09.00	14.792	647.76	

BEAM 6

Locations	Stations	Offset	Theoretical Grade Elevations	Elevations Adjusted For DL Deflections*
BK. West Abutment	10+75.00	21.625	647.84	
CL Brg. W. Abut	10+77.00	21.625	647.82	
A	10+85.00	21.625	647.77	
CL Bridge	10+92.00	21.625	647.73	
BK. West Abutment	10+95.00	21.625	647.71	
C	11+05.00	21.625	647.64	
CL Brg. E. Abut	11+07.00	21.625	647.63	
BK. East Abutment	11+09.00	21.625	647.62	

* Information to be provided by PBFSTG manufacturer. See Special Provisions.

MODEL: Default
FILE NAME: N:\NORTH LAKE\940032DC187\Struct\14-940032DC187-Palmer-Top of Slabs.sht

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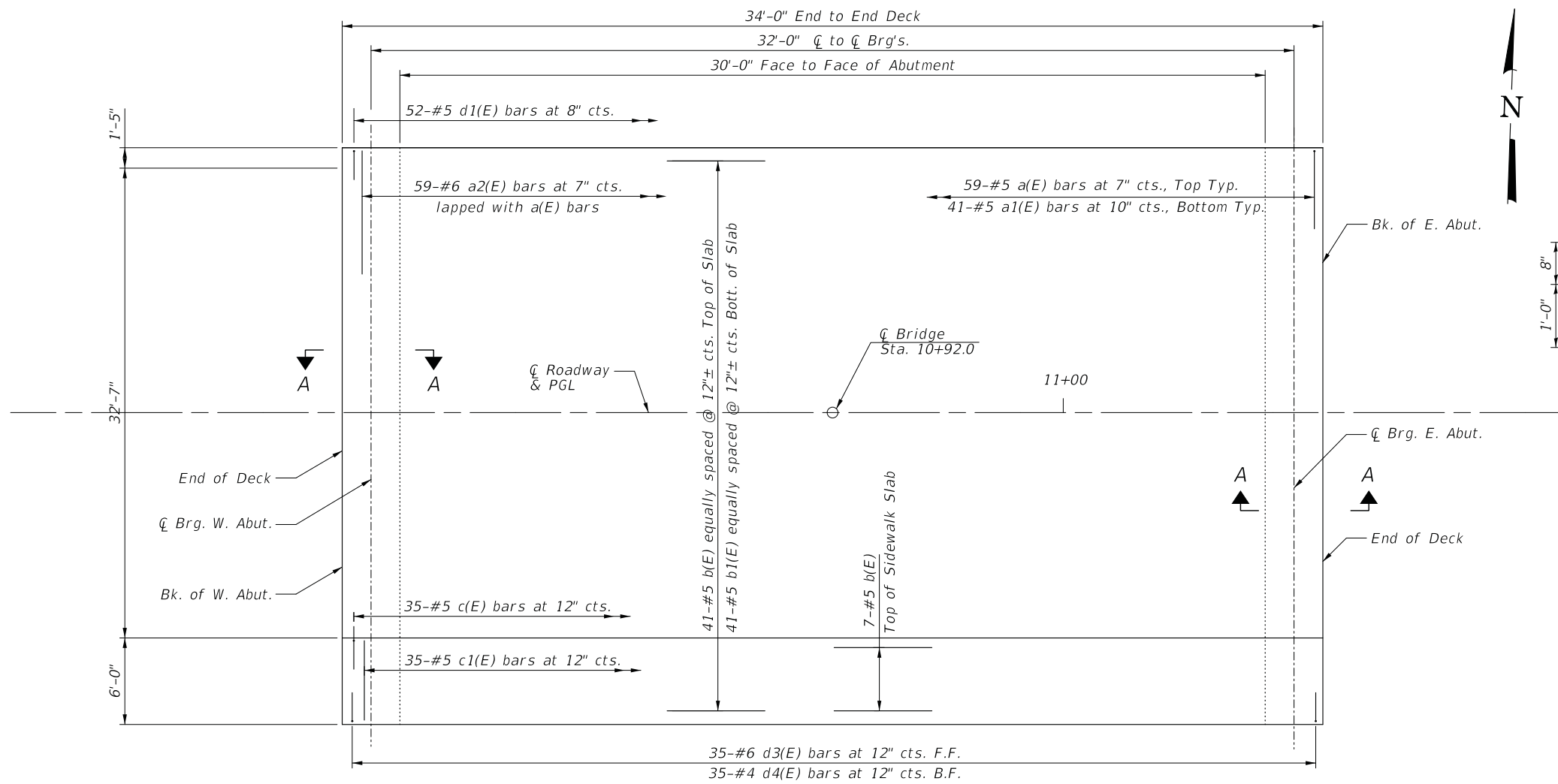
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

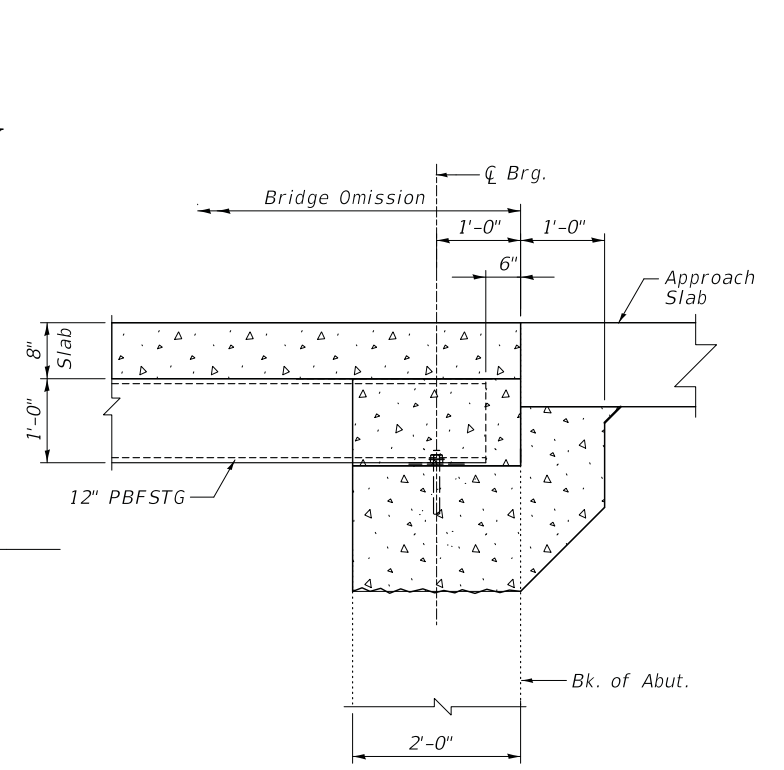
**PALMER AVENUE - BRIDGE RECONSTRUCTION
TOP OF DECK ELEVATIONS**

SHEET OF SHEETS

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	33
3000			CONTRACT NO. 61J43	
ILLINOIS		FED. AID PROJECT		

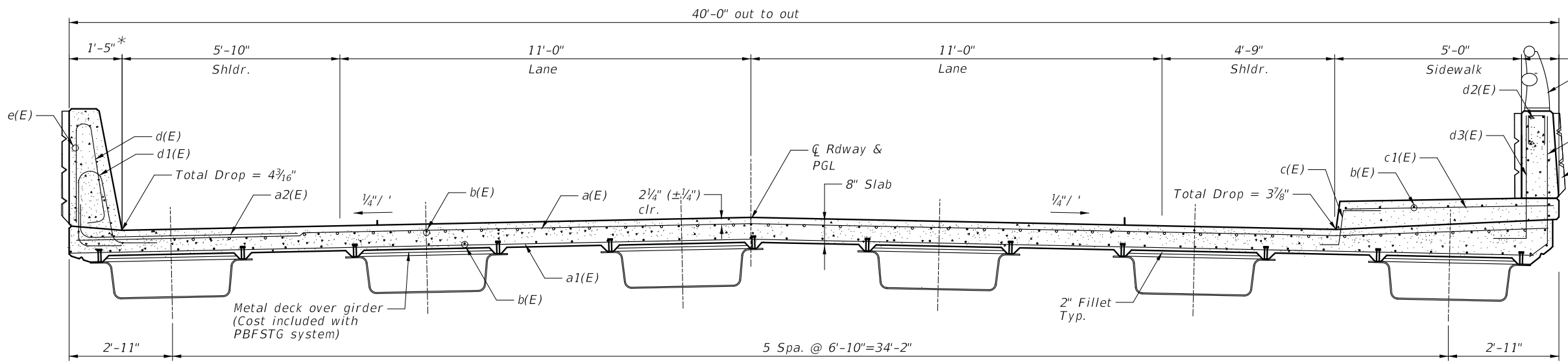


PLAN



SECTION A-A

NOTES: See sheet 6 of 13 for superstructure details and Bill of Material.



CROSS SECTION
(Looking East)

* Dimensions are for barrier only. Add 1/2" on each face for formliner relief to each side of barrier.

MODEL: Default
FILE NAME: N:\NORTH LAKE\940032DC187\Struct\15-940032DC187-Palmer-Super-01.sht

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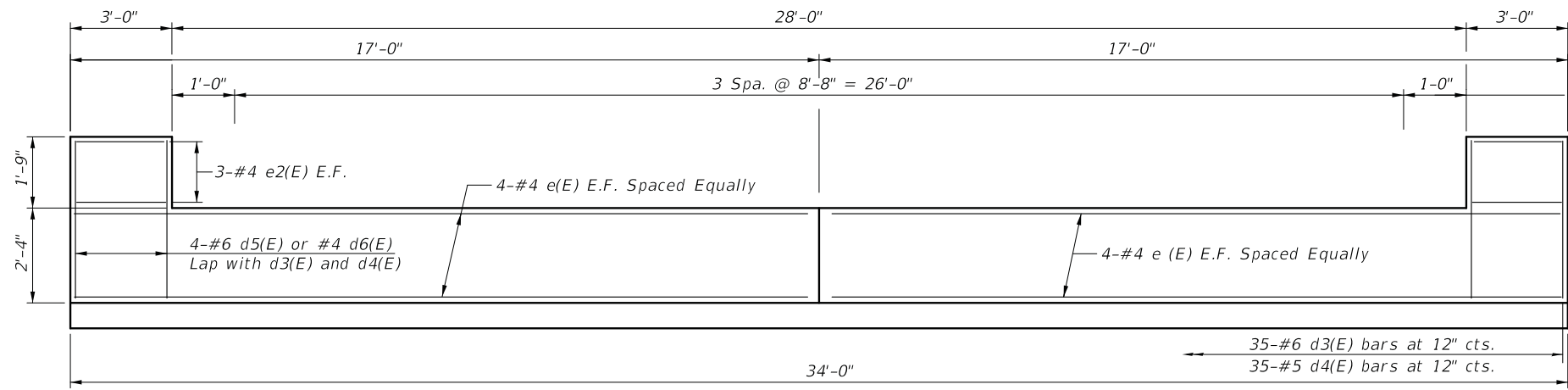
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PALMER AVENUE - BRIDGE RECONSTRUCTION
SUPERSTRUCTURE**

SHEET OF SHEETS

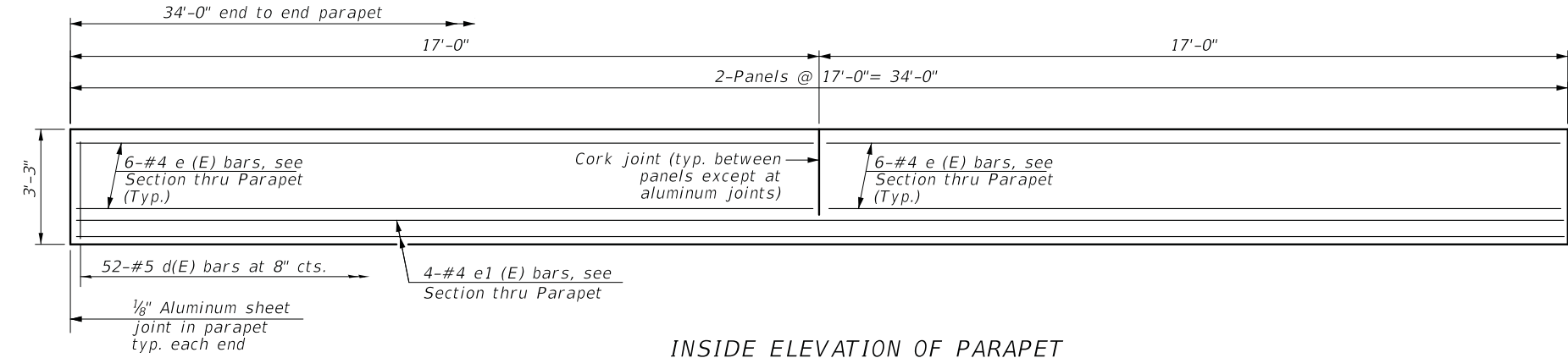
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	34
3000			CONTRACT NO. 61J43	

ILLINOIS FED. AID PROJECT

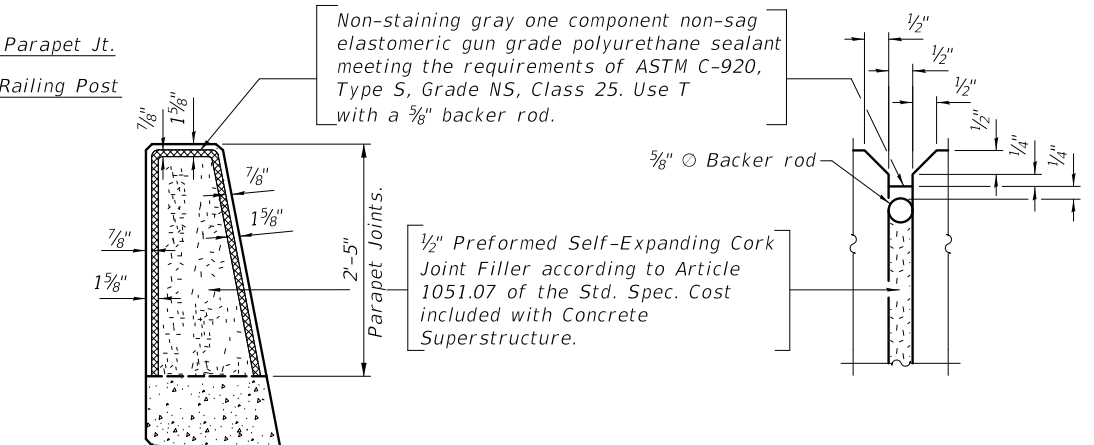


BRIDGE SIDEWALK PARAPET ELEVATION

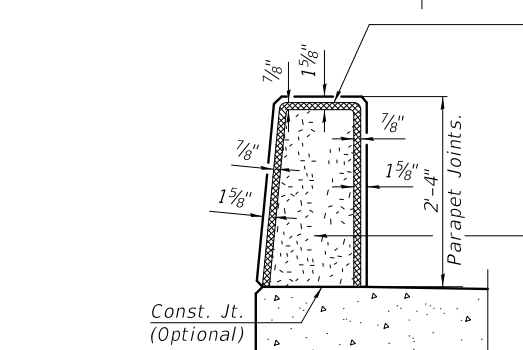
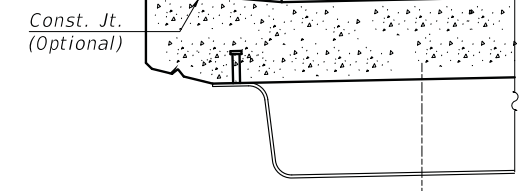
MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-8"



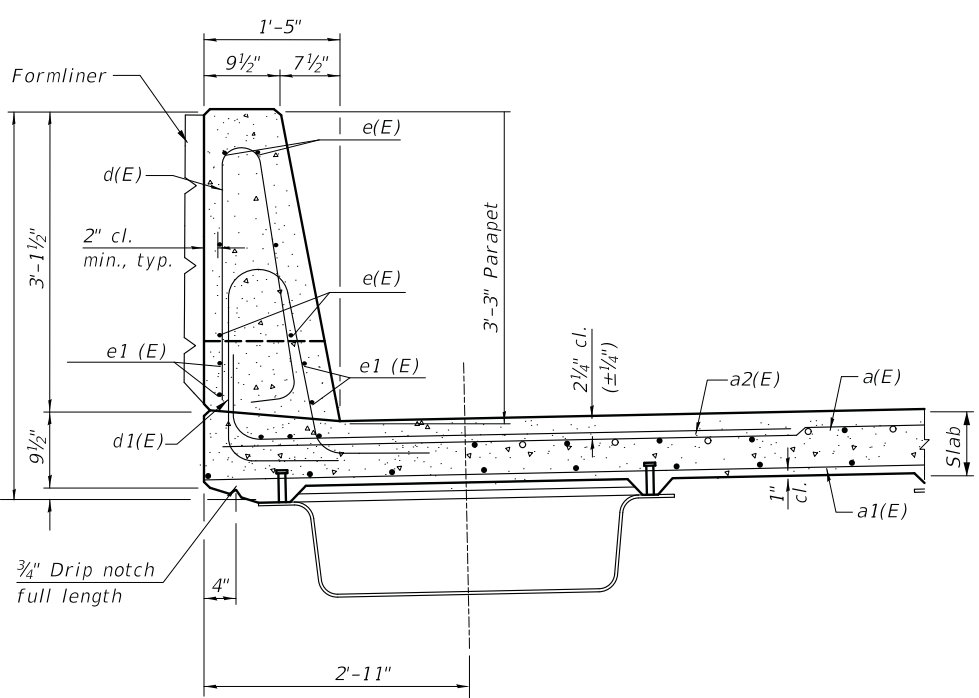
INSIDE ELEVATION OF PARAPET



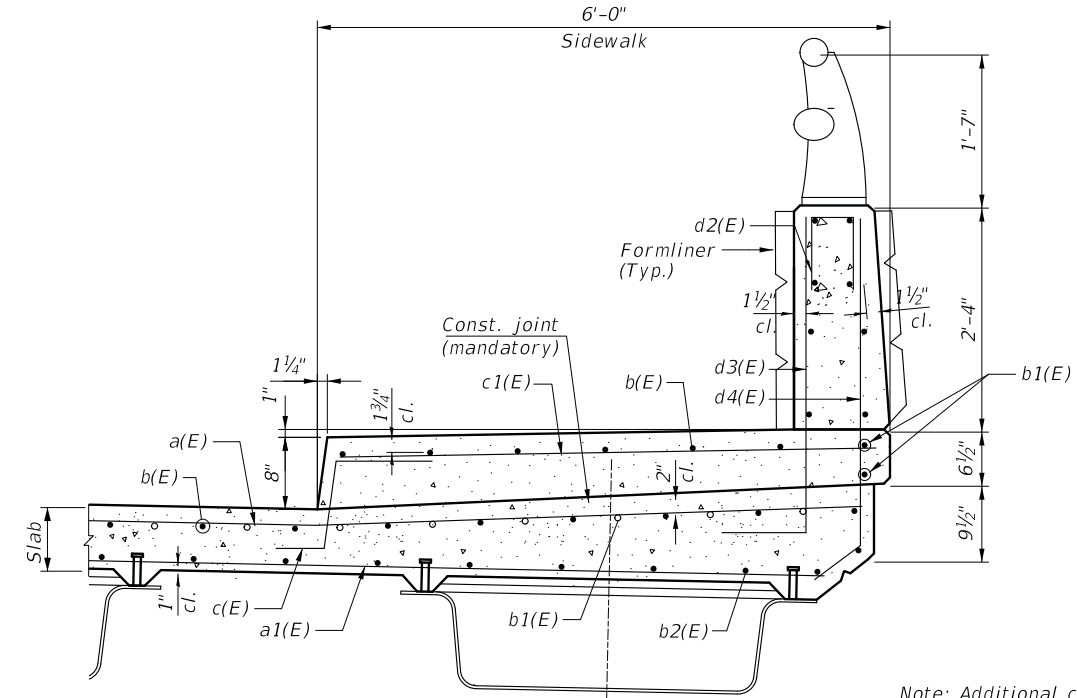
PARAPET JOINT DETAILS



PARAPET JOINT DETAILS

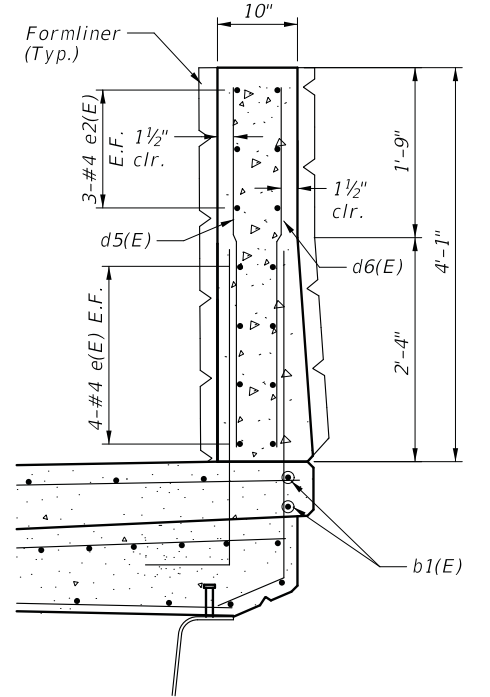


SECTION THRU PARAPET



SECTION THRU PARAPET

Note: Additional concrete volume needed to fill formliner relief shall be included in the cost of Form Liner Textured Surface.



SECTION THRU PARAPET AT END POST

MODEL: Default
FILE NAME: N:\NORTH LAKE\940032DC\187\Struct\16-940032DC\187-Palmer-Super-02.sht

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PLOT DATE =	DRAWN	REVISED
	CHECKED	REVISED

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DEPARTMENT OF TRANSPORTATION**

**PALMER DRIVE - BRIDGE RECONSTRUCTION
SUPERSTRUCTURE DETAILS**

MUN. RT.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	35
3000				CONTRACT NO. 61J43

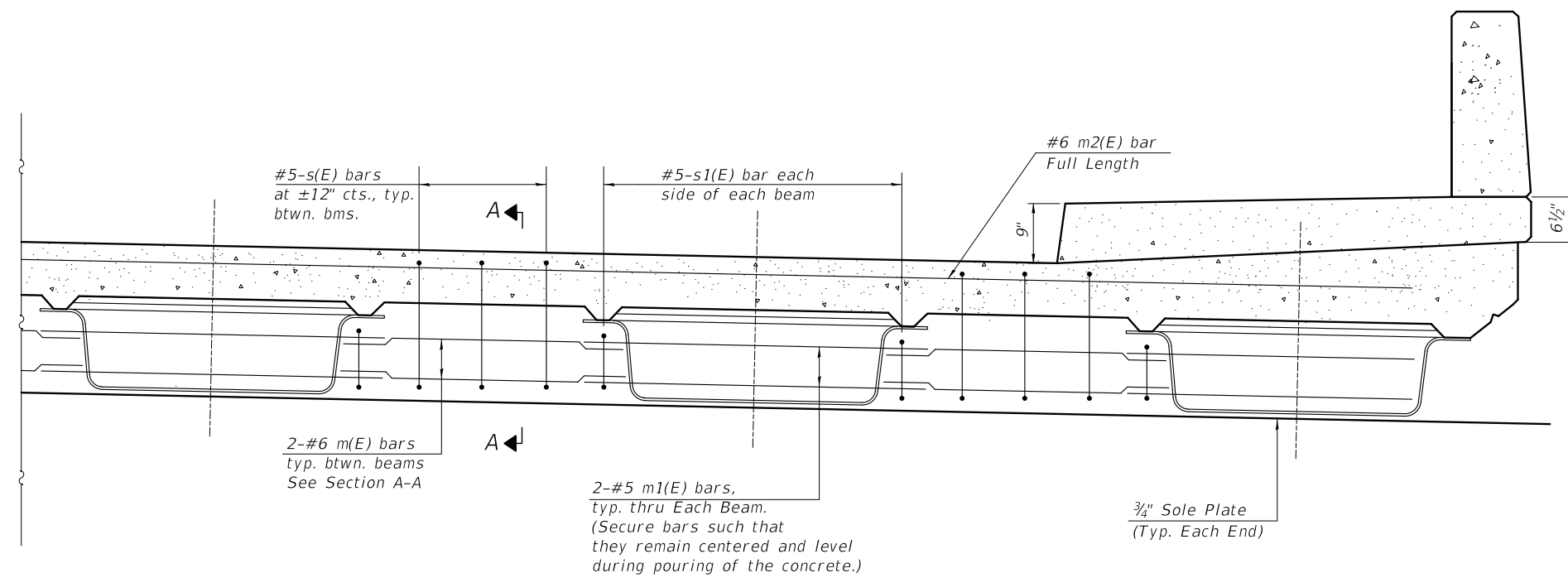
SHEET OF SHEETS

ILLINOIS FED. AID PROJECT

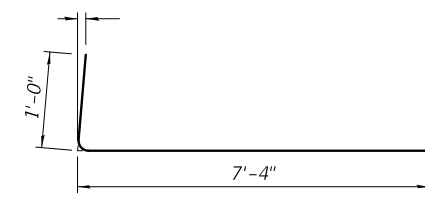
**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a (E)	59	#5	39'-6"	—
a1(E)	41	#5	39'-8"	—
a2(E)	59	#6	8'-4"	└
b (E)	49	#5	33'-8"	—
b1(E)	41	#5	33'-8"	—
c(E)	35	#5	2'-4"	└
c1(E)	35	#5	5'-8"	—
d(E)	52	#5	6'-5"	└
d1(E)	52	#5	7'-6"	└
d2(E)	12	#4	2'-0"	└
d3(E)	35	#6	4'-2"	└
d4(E)	35	#4	4'-4"	└
d5(E)	8	#6	3'-11"	—
d6(E)	8	#4	3'-11"	—
e(E)	28	#4	16'-8"	—
e1(E)	4	#4	33'-8"	—
e2(E)	12	#4	2'-8"	—
m(E)	20	#6	3'-0"	—
m1(E)	24	#6	6'-0"	—
m2(E)	8	#6	39'-6"	—
s(E)	30	#5	7'-7"	└
s1(E)	20	#5	5'-7"	└
Reinforcement Bars, Epoxy Coated			Lbs.	11,030
Concrete Superstructure			Cu. Yds.	58.4

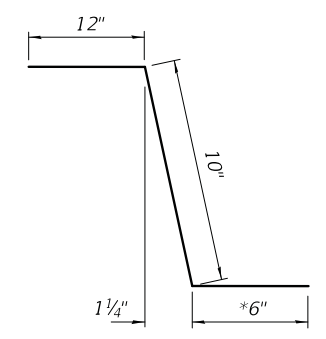
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.



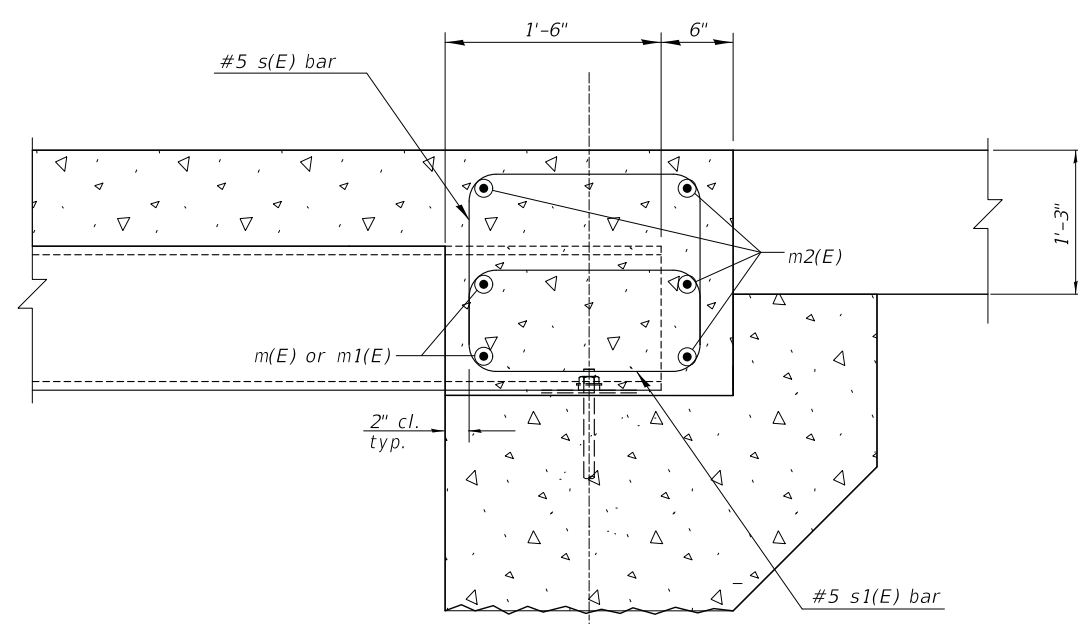
DIAPHRAGM AT ABUTMENT



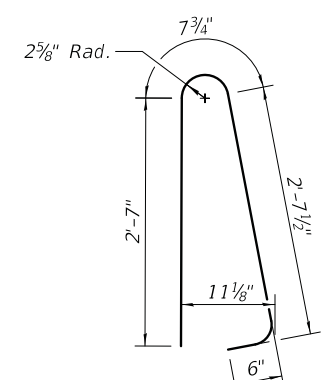
BAR a2(E)



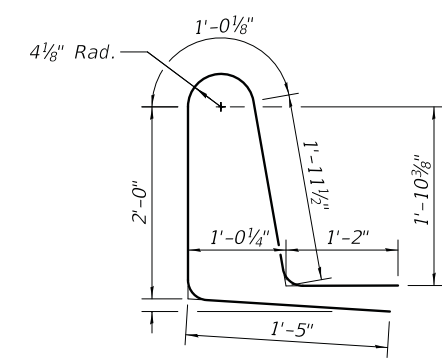
BAR c(E)



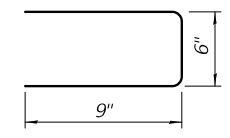
SECTION A-A



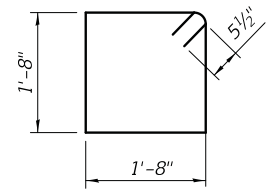
BAR d(E)



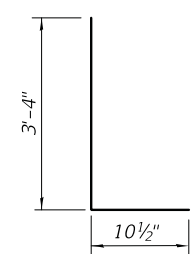
BAR d1(E)



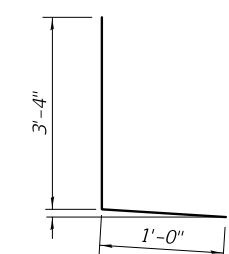
BAR d2(E)



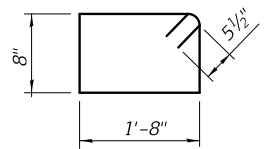
BAR s(E)



BARS d3(E)



BAR d4(E)



BAR s1(E)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PALMER DRIVE - BRIDGE RECONSTRUCTION
SUPERSTRUCTURE DETAILS**

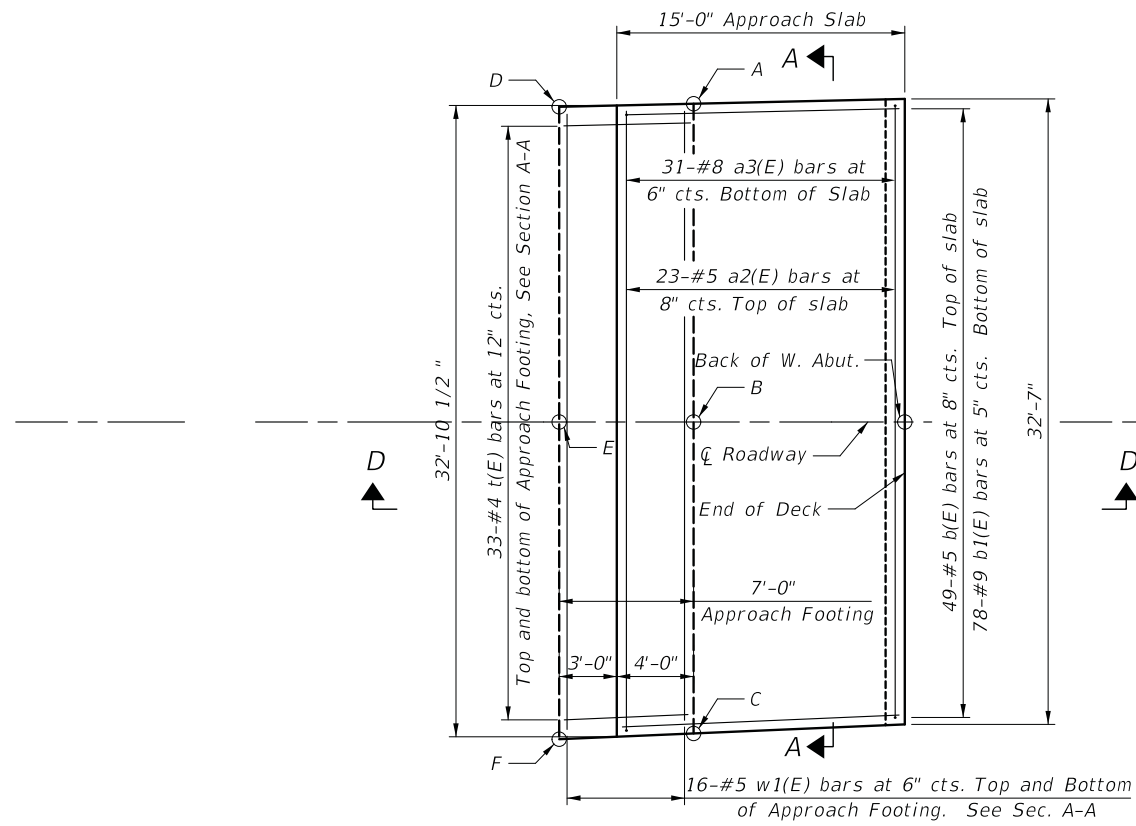
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4070	20-00098-00-BR	COOK	48	36
3000			CONTRACT NO. 61J43	
		ILLINOIS	FED. AID PROJECT	

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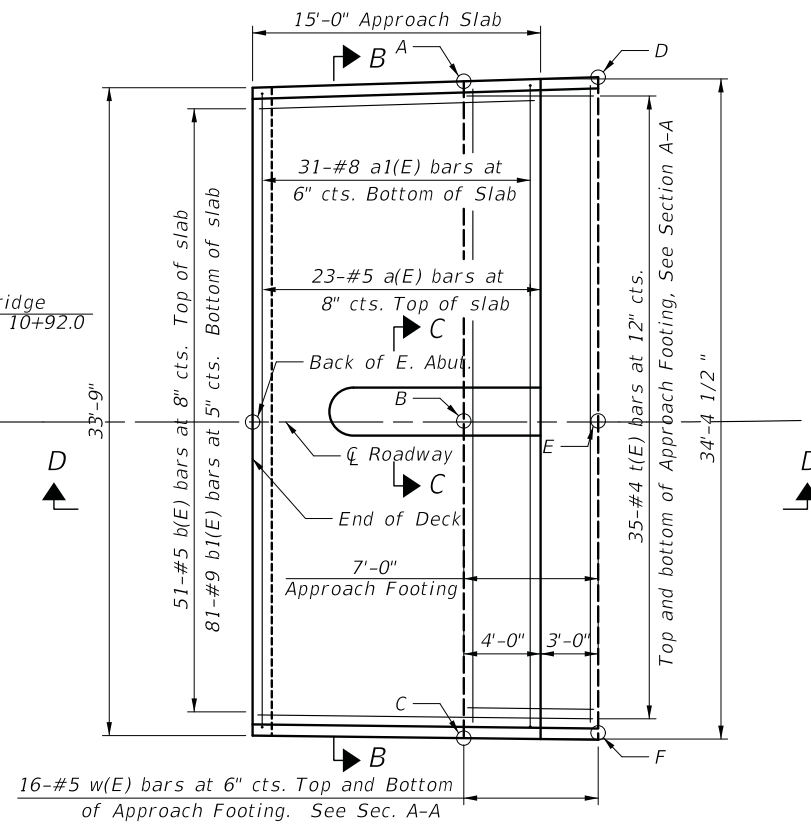
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PLOT SCALE =	CHECKED	REVIS
PLOT DATE =	DRAWN	REVIS
	CHECKED	REVIS

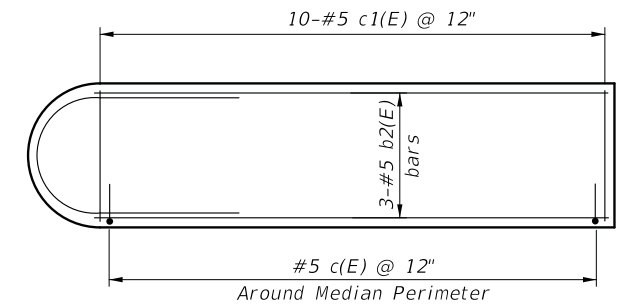
SHEET OF SHEETS



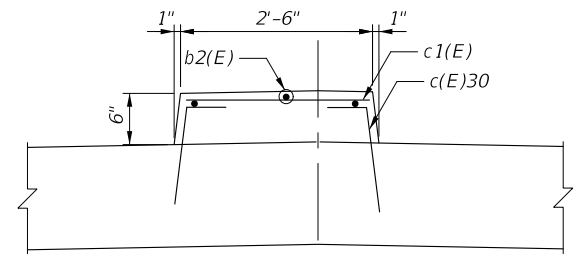
WEST APPROACH SLAB PLAN



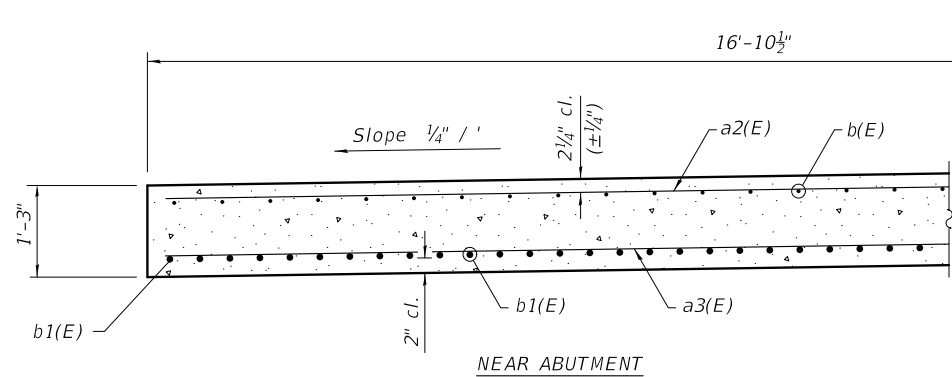
EAST APPROACH SLAB PLAN



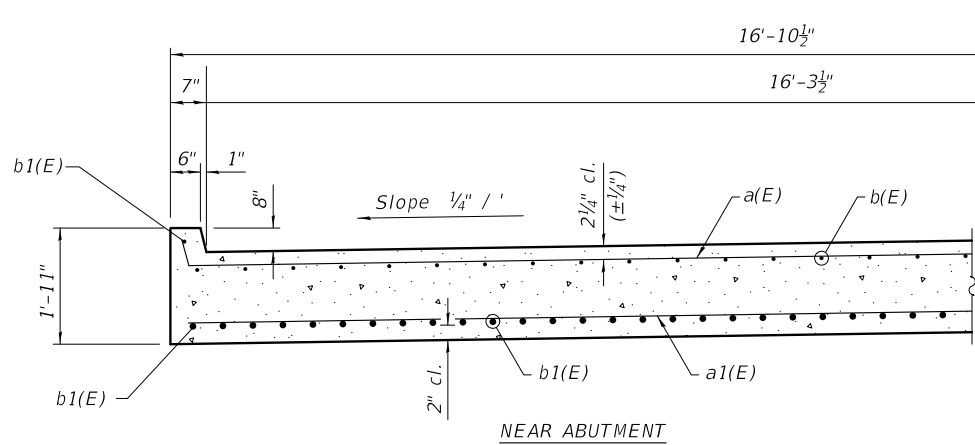
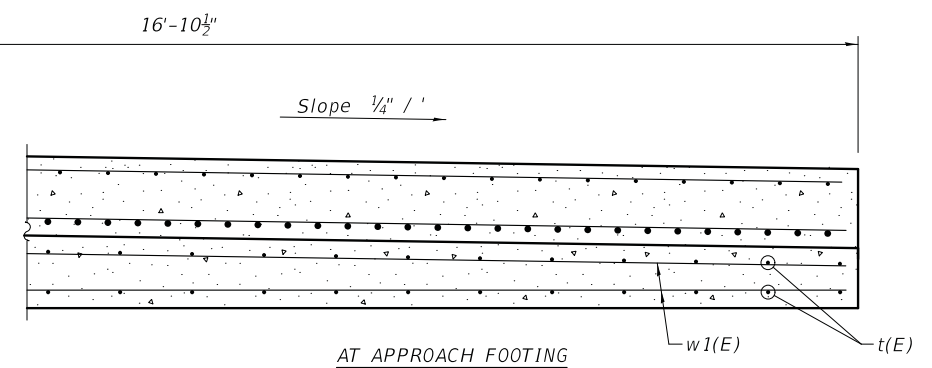
MEDIAN DETAIL



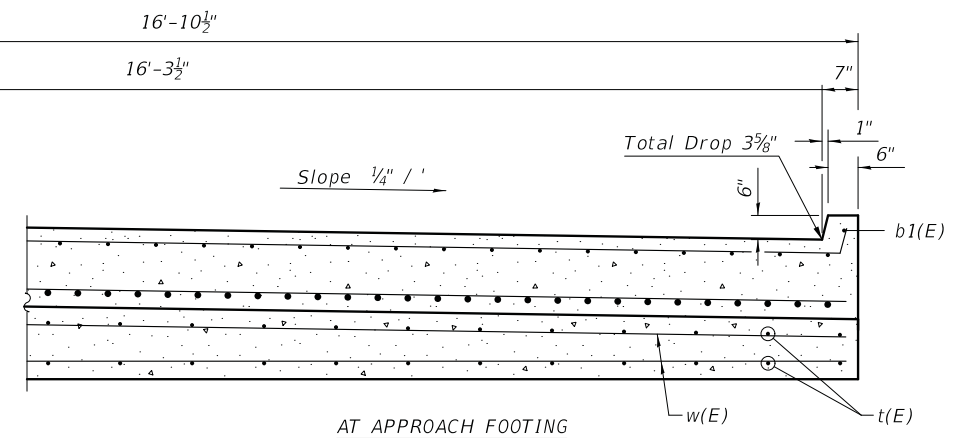
SECTION C-C



SECTION A-A - WEST APPROACH
(Looking North)



SECTION B-B - EAST APPROACH
(Looking North)



MODEL: Default
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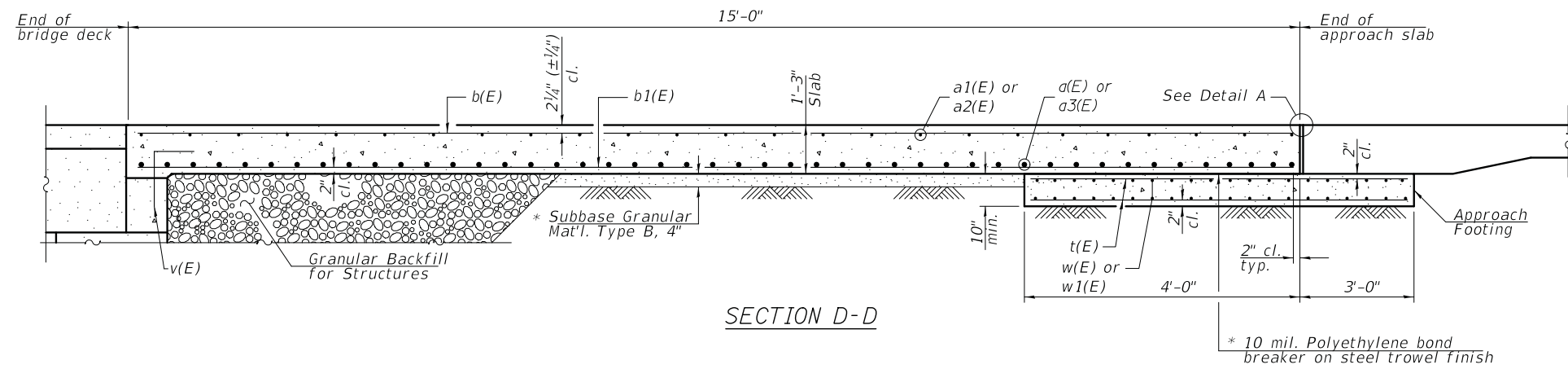
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	CHECKED	REVISED

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PALMER AVENUE - BRIDGE RECONSTRUCTION
APPROACH SLAB DETAILS (1 OF 2)

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	37
3000			CONTRACT NO. 61J43	
		ILLINOIS	FED. AID PROJECT	



Notes:
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.

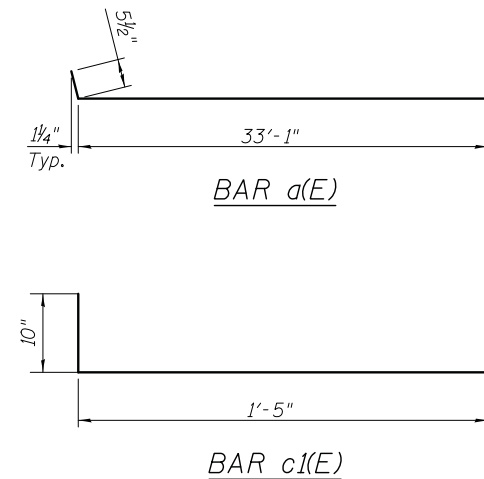
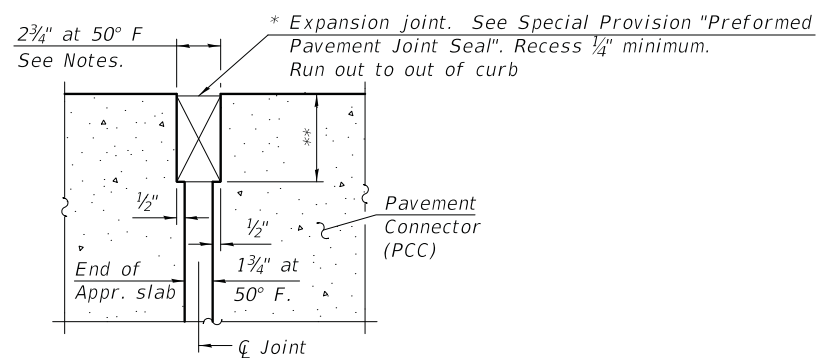
**TOP AND BOTTOM ELEVATIONS
 FOR APPROACH FOOTING**

West Approach			East Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A -	646.42	645.59	A -	646.06	645.23
B -	647.09	646.26	B -	646.73	645.90
C -	646.42	645.59	C -	646.06	645.23
D -	646.47	645.64	D -	646.01	645.18
E -	647.14	646.31	E -	646.68	645.85
F -	646.47	645.64	F -	646.01	645.18

**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	23	#5	34'-6"	┌───┐
* a1(E)	31	#8	33'-9"	┌───┐
* a2(E)	23	#5	32'-6"	┌───┐
* a3(E)	31	#8	32'-6"	┌───┐
b(E)	102	#5	14'-8"	┌───┐
b1(E)	160	#9	14'-8"	┌───┐
b2(E)	3	#5	9'-9"	┌───┐
c(E)	24	#5	2'-3"	┌──┐
c1(E)	10	#5	2'-2"	┌──┐
t(E)	136	#4	6'-8"	┌───┐
v(E)	68	#5	3'-4"	┌──┐
* w(E)	32	#5	34'-0"	┌───┐
* w1(E)	32	#5	32'-6"	┌───┐
Concrete Superstructure (Approach Slab)		Cu. Yd.	47.2	
Concrete Structures		Cu. Yd.	14.5	
Reinforcement Bars, Epoxy Coated		Pound	19,800	

* Cut in field if necessary



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PALMER AVENUE - BRIDGE RECONSTRUCTION
 APPROACH SLAB DETAILS (2 OF 2)

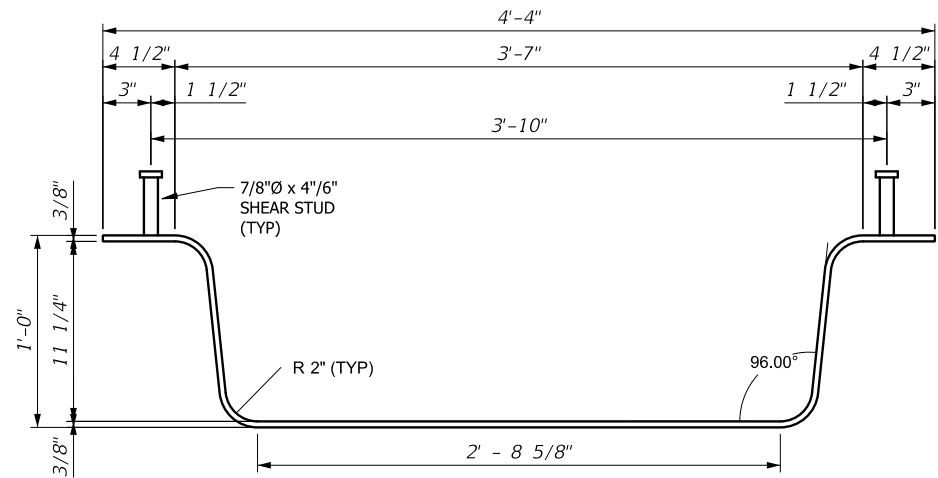
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4070	20-00098-00-BR	COOK	48	38
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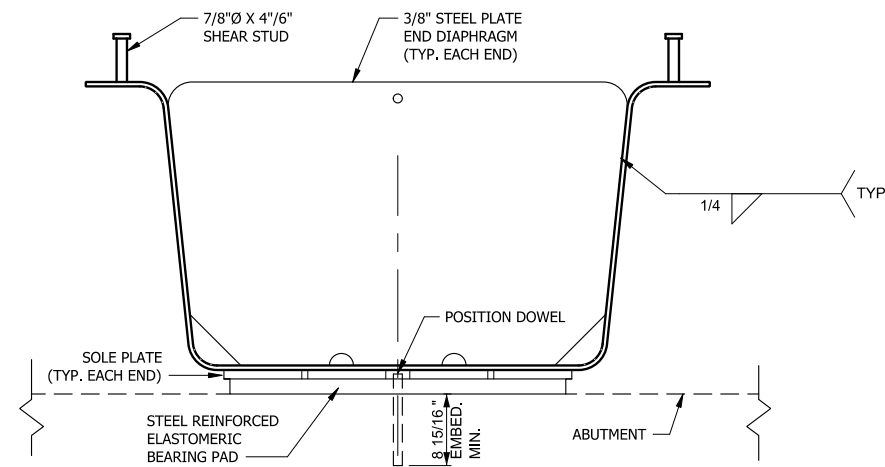
CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500	USER NAME =	DESIGNED	REVISED
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	DRAWN	DRAWN	REVISED
	CHECKED	CHECKED	REVISED

SHEET OF SHEETS

ILLINOIS FED. AID PROJECT

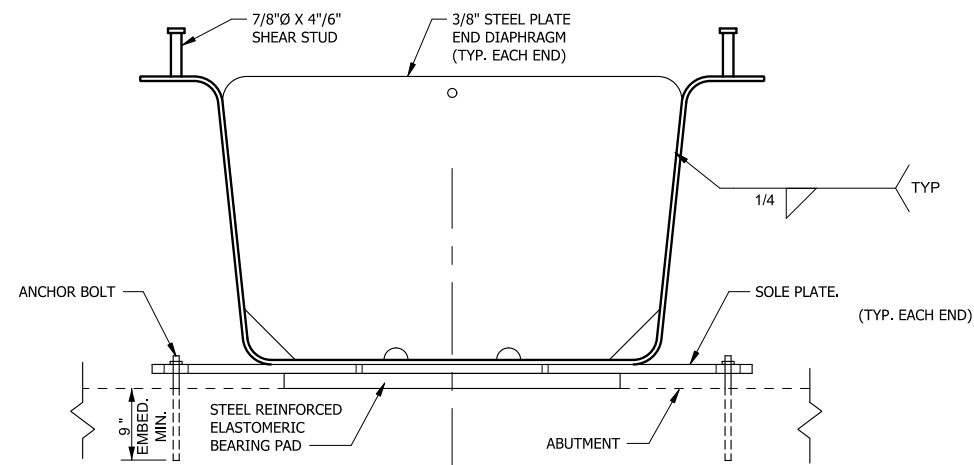


STEEL TUB GIRDER
(AASHTO M270, ASTM A709 GR50 T2)



STEEL TUB GIRDER END ELEVATION (POSITION DOWEL OPTION)

NOTE: POSITION DOWEL PROVIDED BY OTHERS. STEEL TUB GIRDER SHALL BE SECURED FROM OVERTURNING PRIOR TO ANY CONSTRUCTION, DECK FORMING, OR CONCRETE PLACEMENT OPERATIONS.



STEEL TUB GIRDER END ELEVATION (ANCHOR BOLT OPTION)

NOTE: ANCHOR BOLTS PROVIDED BY OTHERS SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION DECK FORMING, REBAR PLACEMENT OR CONCRETE PLACEMENT OPERATIONS.

MODEL: Default
FILE NAME: N:\NORTH LAKE\940032DC187\Struct\21-940032DC187-Palmer-12PBFTGDetail-01.sht

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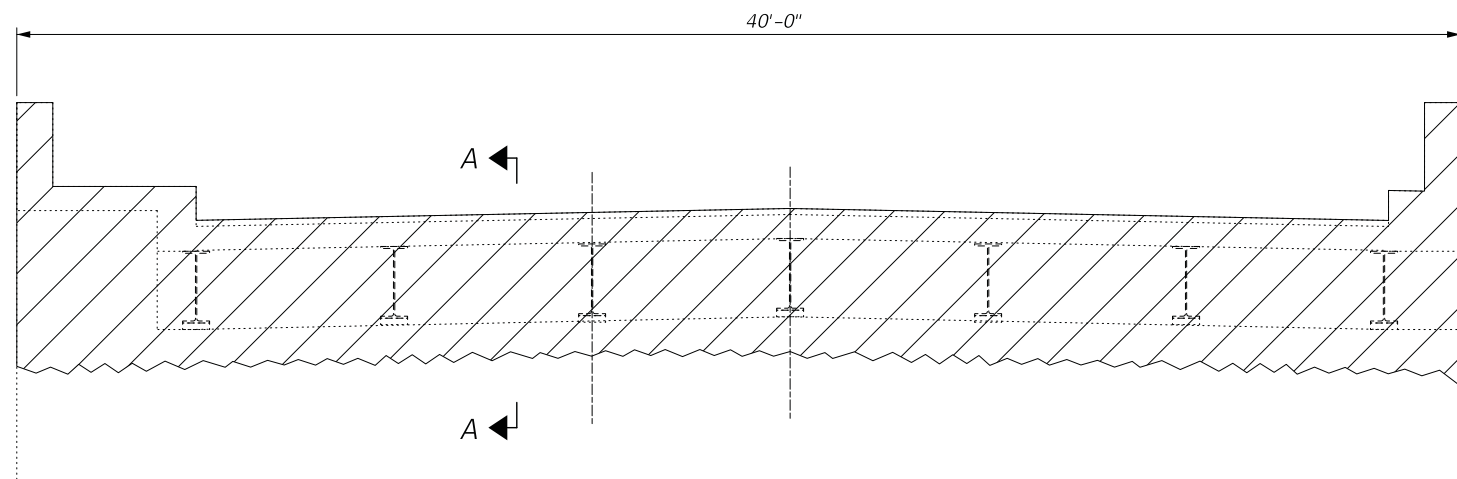
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PALMER AVENUE - BRIDGE RECONSTRUCTION
12" PRESS BRAKE FABRICATED TUB GIRDER

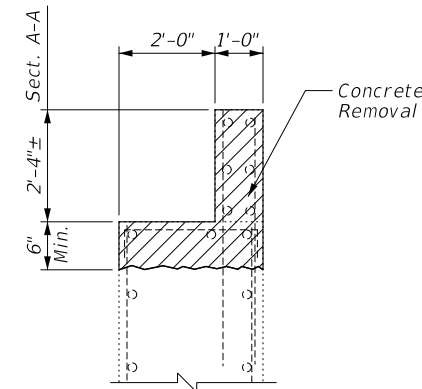
SHEET OF SHEETS

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	40
3000			CONTRACT NO. 61J43	

ILLINOIS FED. AID PROJECT



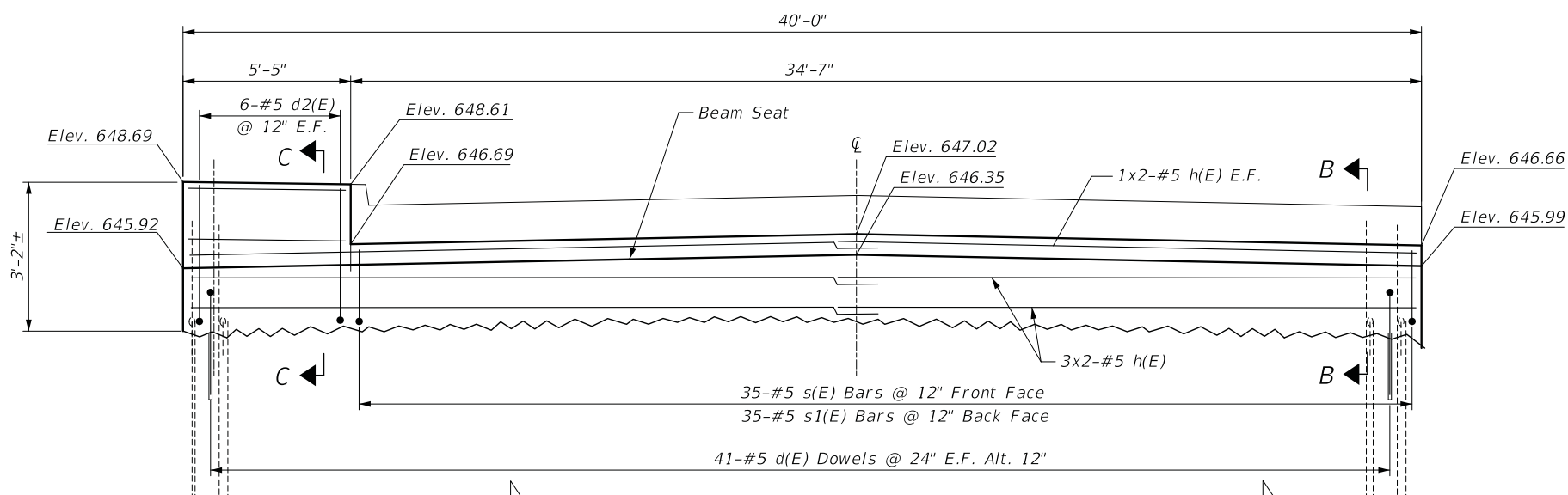
REMOVAL DETAIL - EXISTING WEST ABUTMENT



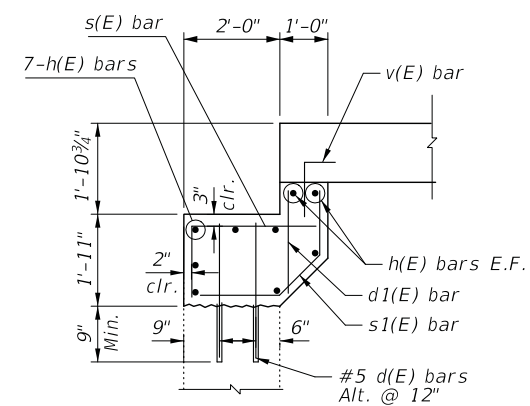
SECTION A-A
EXISTING ABUTMENT TYPICAL SECTION

NOTES:

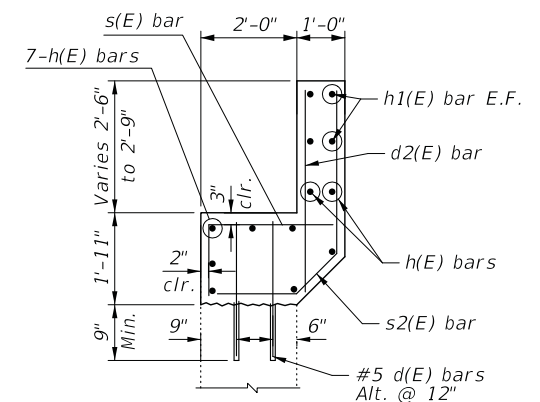
- Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal".
- Any reinforcement bars that are damaged during concrete removal operation shall be repaired using an approved bar splicer or anchorage system. Cost included with "Concrete Removal".
- The cost of installing dowels is included with "Reinforcement Bars, Epoxy Coated".



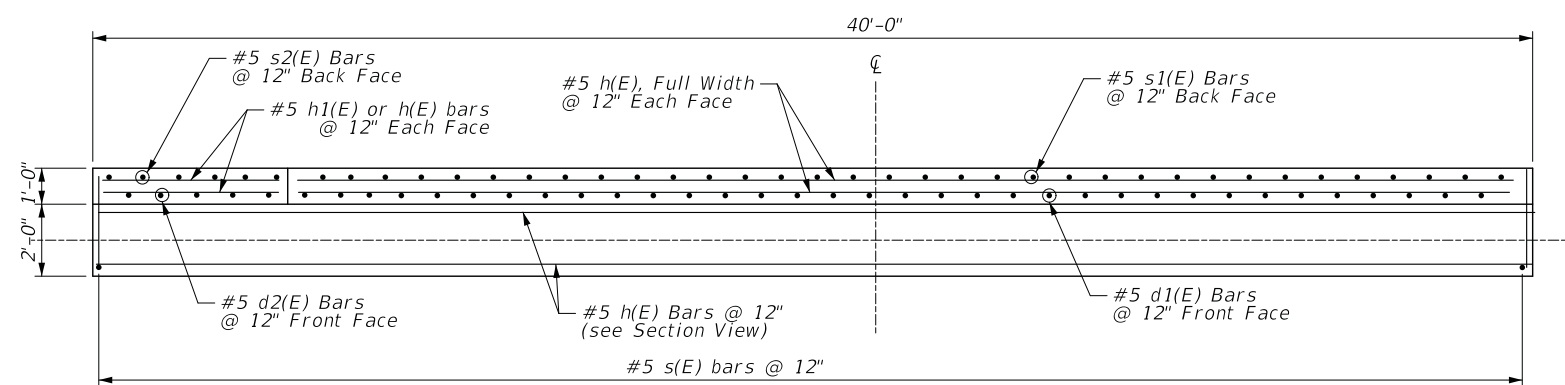
ELEVATION - PROPOSED WEST ABUTMENT



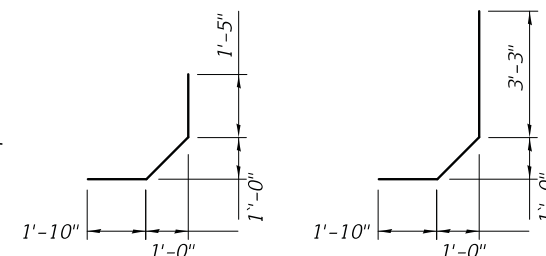
SECTION B-B



SECTION C-C

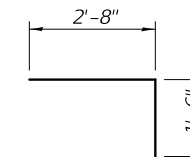


PLAN - PROPOSED WEST ABUTMENT



BAR S1(E)

BAR S2(E)



BAR S(E)

SUBSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
d(E)	41	5	2'-5"	—	
d1(E)	35	5	2'-2"	—	
d2(E)	6	5	4'-1"	—	
h(E)	18	5	21'-5"	—	
h1(E)	4	5	5'-1"	—	
s(E)	41	5	4'-2"	┌	
s1(E)	35	5	4'-8"	┌	
s2(E)	6	5	6'-6"	┌	
Reinforcement Bars, Epoxy Coated				Pound	1,020
Concrete Structure				Cu. Yd.	9.9

Bars indicated thus 1 x 3-#4 etc. indicates 1 line of bars with 3 lengths per line.

MODEL: Default
FILE NAME: N:\NORTH LAKE\940032DC187\Struct\22-940032DC187-Palmer-Abut-01.sht

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

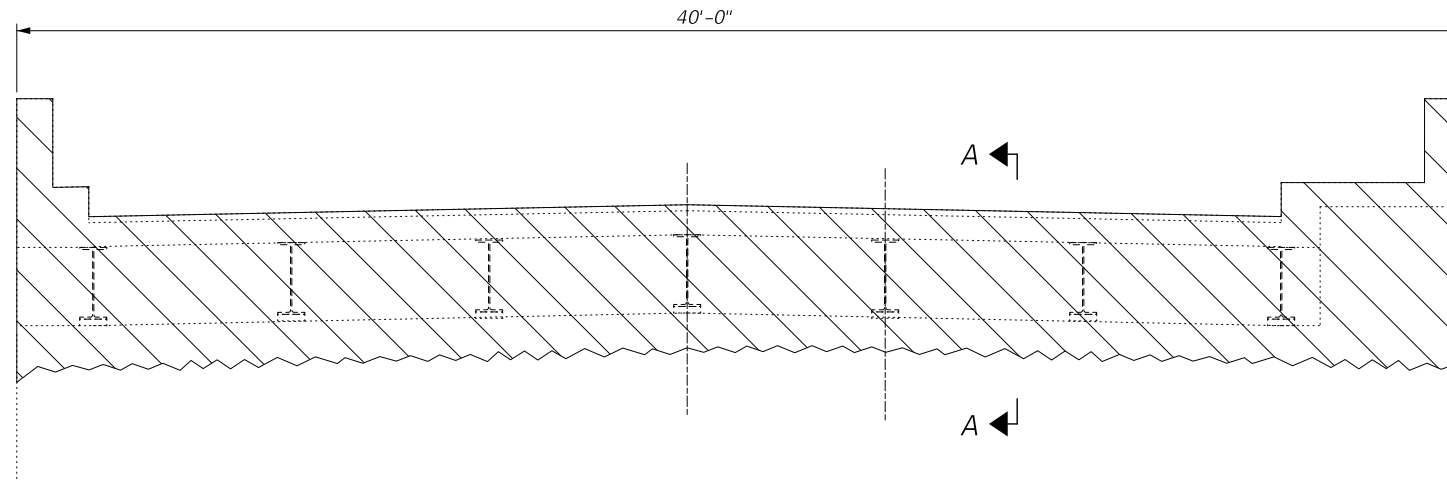
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PLOT SCALE =	CHECKED ,	REVISED ,
PLOT DATE =	DRAWN ,	REVISED ,
	CHECKED ,	REVISED ,

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

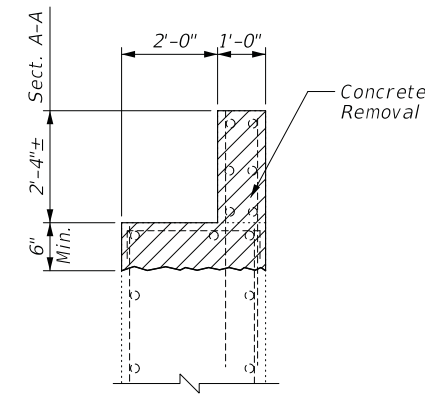
PALMER AVENUE - BRIDGE RECONSTRUCTION
WEST ABUTMENT

SHEET OF SHEETS

MUN. RT.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	41
3000	CONTRACT NO. 61J43			
ILLINOIS		FED. AID PROJECT		



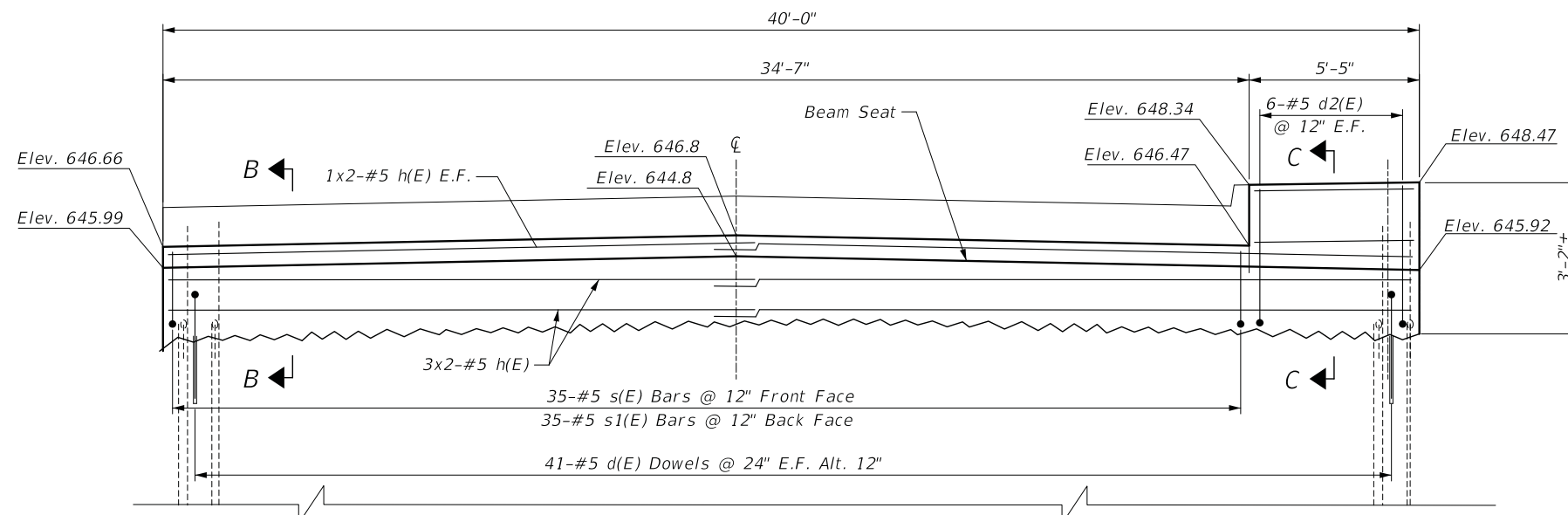
REMOVAL DETAIL - EXISTING EAST ABUTMENT



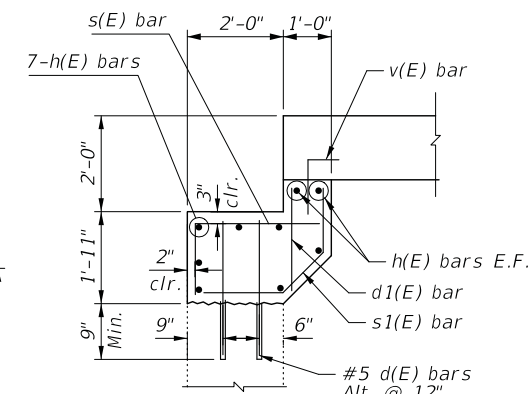
SECTION A-A
EXISTING ABUTMENT TYPICAL SECTION

NOTES:

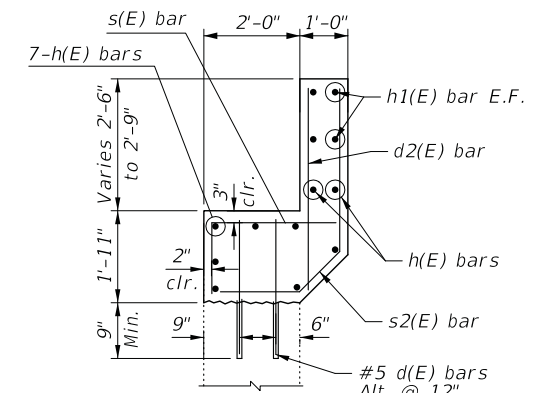
- Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal".
- Any reinforcement bars that are damaged during concrete removal operation shall be repaired using an approved bar splicer or anchorage system. Cost included with "Concrete Removal".
- The cost of installing dowels is included with "Reinforcement Bars, Epoxy Coated".



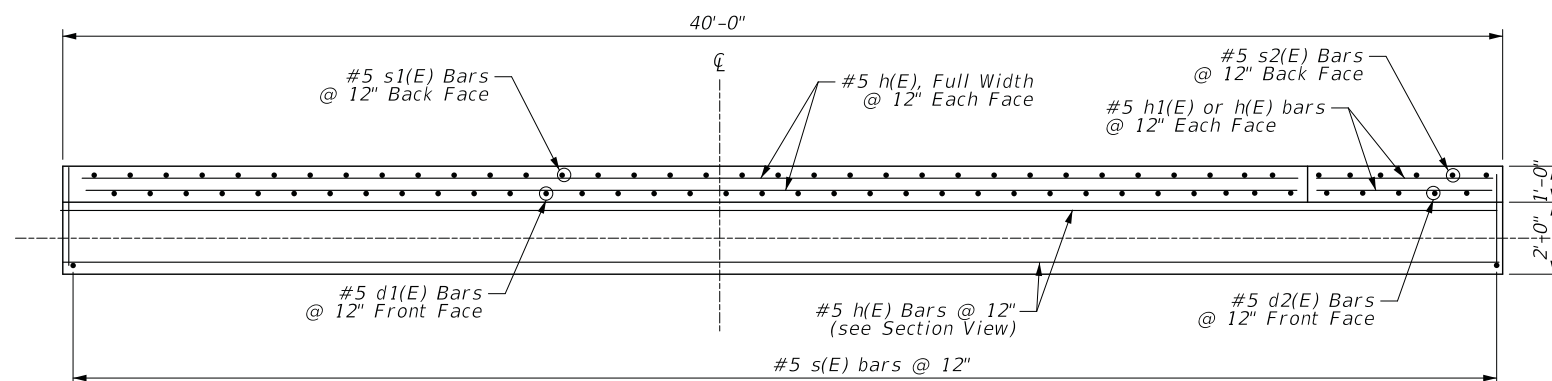
ELEVATION - PROPOSED EAST ABUTMENT



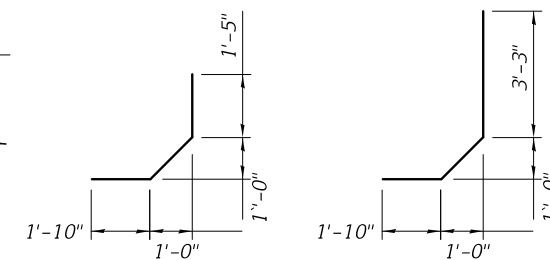
SECTION B-B



SECTION C-C

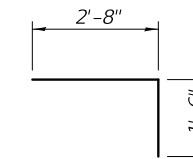


PLAN - PROPOSED EAST ABUTMENT



BAR s1(E)

BAR s2(E)



BAR s(E)

SUBSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
d(E)	41	5	2'-5"	—	
d1(E)	35	5	2'-2"	—	
d2(E)	6	5	4'-1"	—	
h(E)	18	5	21'-5"	—	
h1(E)	4	5	5'-1"	—	
s(E)	41	5	4'-2"	┌	
s1(E)	35	5	4'-8"	┌	
s2(E)	6	5	6'-6"	┌	
Reinforcement Bars, Epoxy Coated				Pound	1,020
Concrete Structure				Cu. Yd.	9.9

Bars indicated thus 1 x 3-#4 etc. indicates 1 line of bars with 3 lengths per line.

MODEL: Default
FILE NAME: N:\NORTHLAKE\940032DC187\Struct\23-940032DC187-Palmer-Abut-02.sht

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

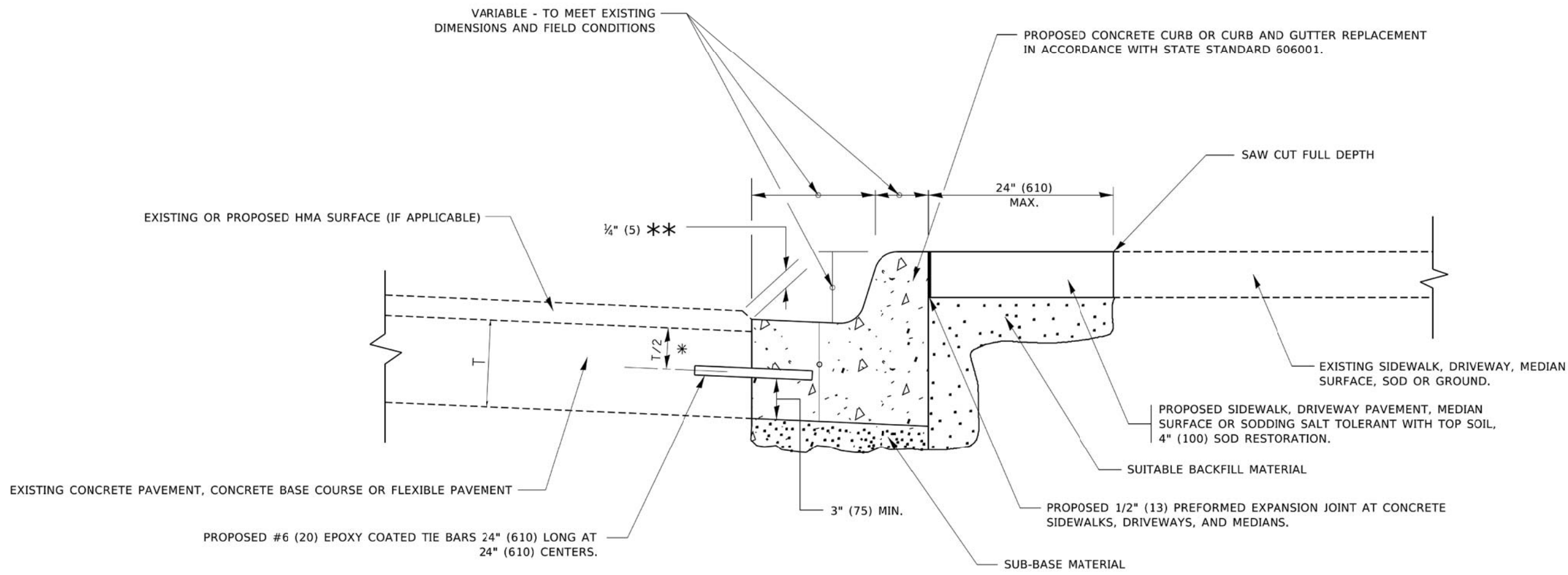
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PLOT SCALE =	CHECKED ,	REVISED ,
PLOT DATE =	DRAWN ,	REVISED ,
	CHECKED ,	REVISED ,

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PALMER AVENUE - BRIDGE RECONSTRUCTION
EAST ABUTMENT

SHEET OF SHEETS

MUN. RT.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	42
3000	CONTRACT NO. 61J43			
ILLINOIS		FED. AID PROJECT		



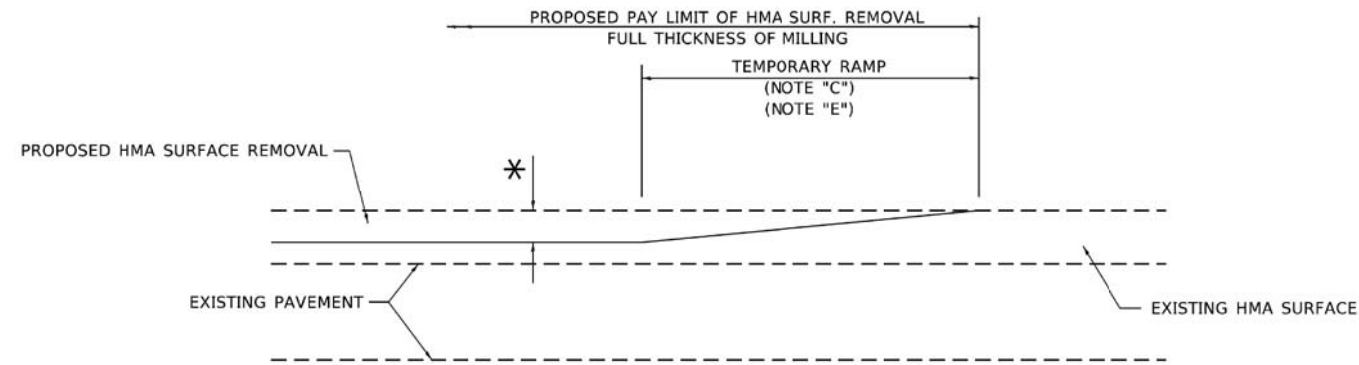
- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

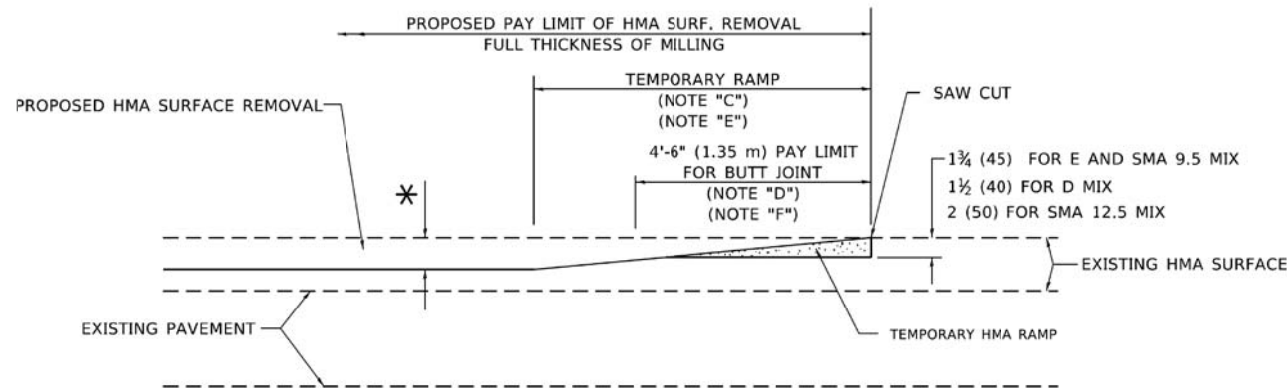
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FILE NAME: p:\bldmroom\dot_illinois.gov\pww\dtd\Documents\DOT_Offices\District_1\Projects\Dist1\5427231\CAD\Drawings\bd24.dgn

USER NAME = footemj PLOT SCALE = 50.0000' / in. PLOT DATE = 7/11/2019	DESIGNED - A. HOUSEH DRAWN - CHECKED - DATE - 03-11-94	REVISED - A. ABBAS 03-21-97 REVISED - M. GOMEZ 01-22-01 REVISED - R. BORO 12-15-09 REVISED - K. SMITH 07-11-19	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	FAU R.T.E. 4070 3000	SECTION 20-00098-00-BR BD600-06 (BD-24)	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 43
SCALE: NONE				SHEET 1 OF 1 SHEETS	STA. TO STA.		CONTRACT NO. 61J43		
							ILLINOIS FED. AID PROJECT		



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

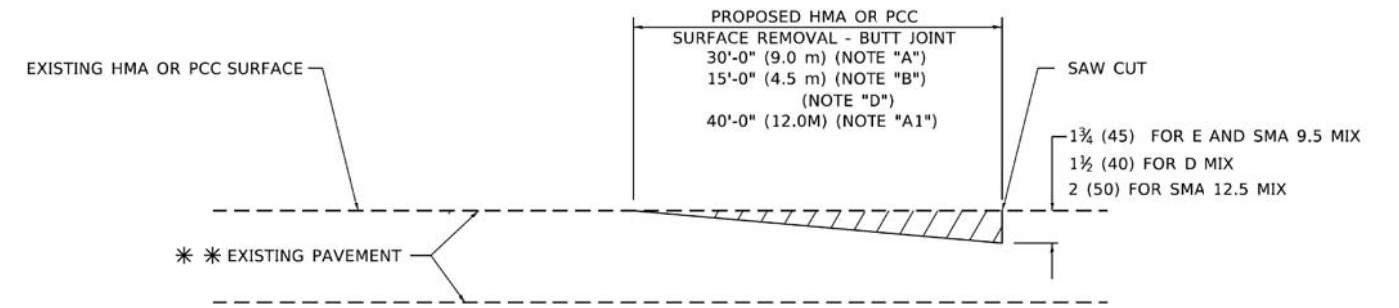
OPTION 1



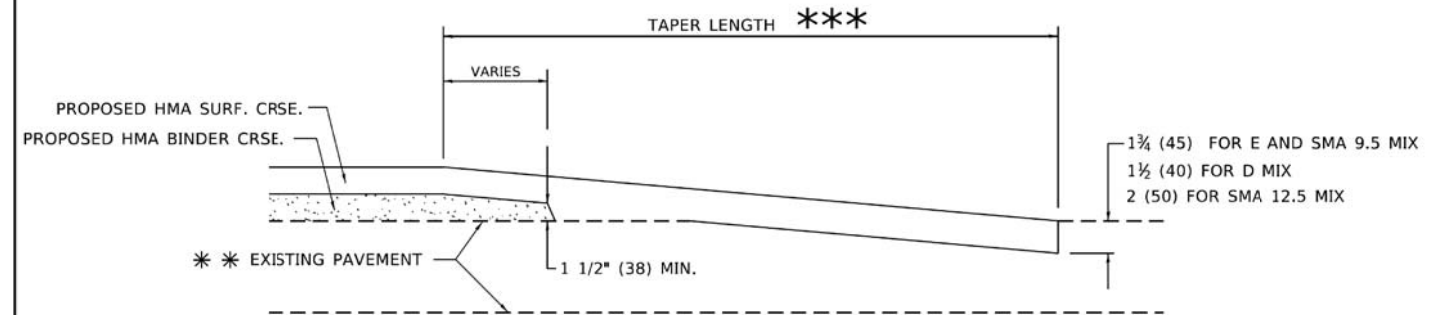
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

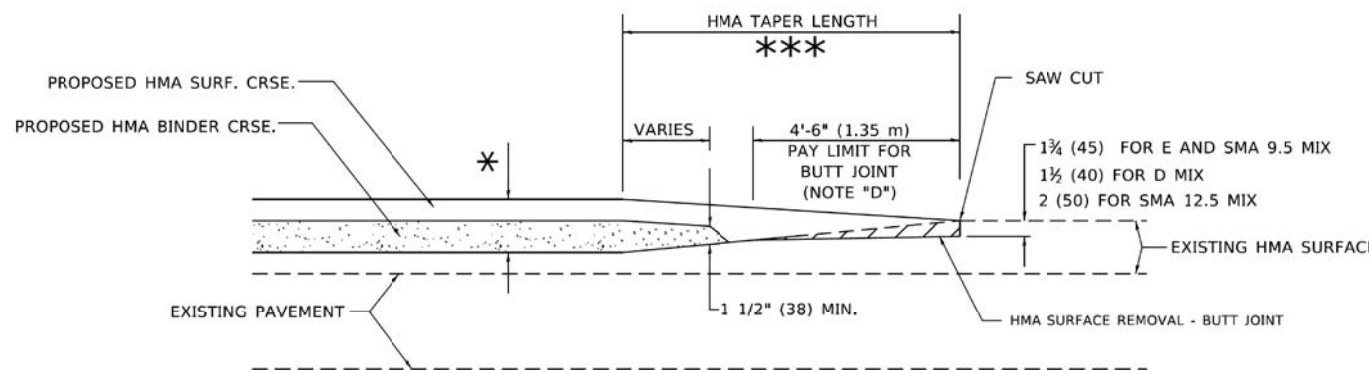
GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

MODEL: D:\dell\... FILE: ...

USER NAME = Lawrence,DeManche	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE		SHEET 1 OF 1 SHEETS		STA.	TO STA.
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BUTT JOINT AND
HMA TAPER DETAILS

FAU RTE. 4070 3000	SECTION 20-00098-00-BR	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 44
BD400-05 BD-32		CONTRACT NO. 61J43		
ILLINOIS FED. AID PROJECT				

ROUTE MARKERS

FOR U.S. ROUTES
MI-40-2424

FOR ILLINOIS ROUTES
MI-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

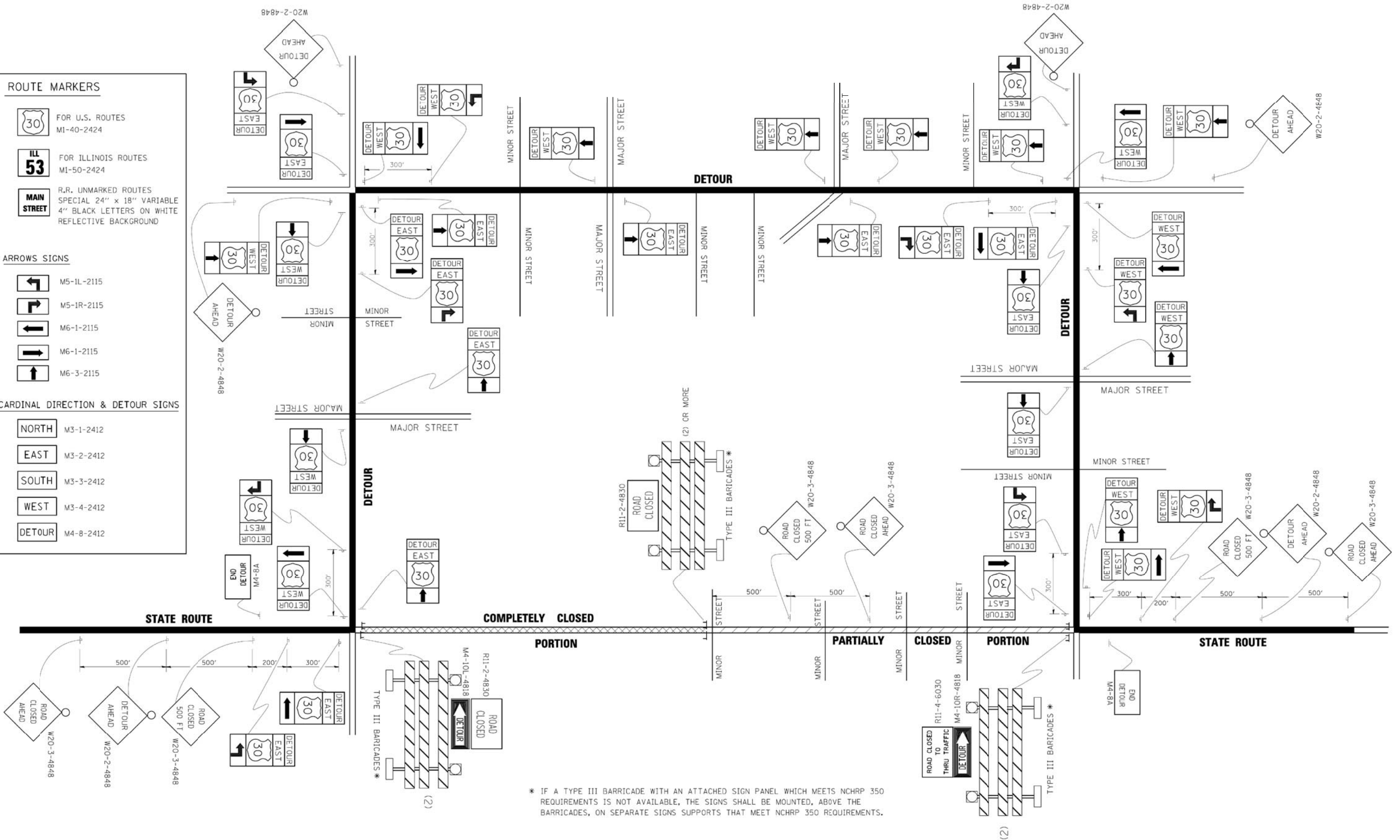
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412

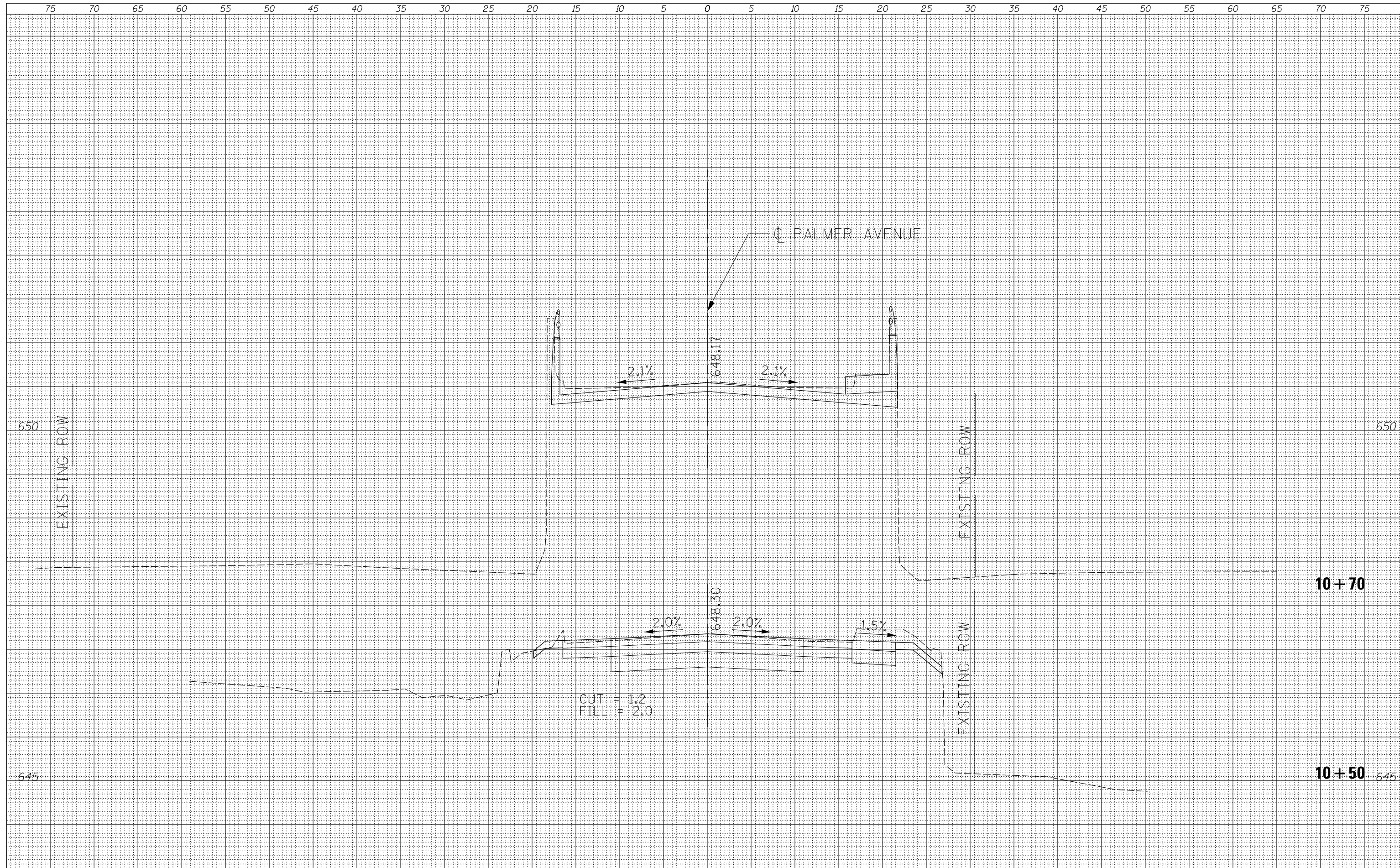


* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME -	USER NAME -	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			FAU	SECTION	COUNTY	TOTAL	SHEET
ct:\pw\work\PIWIDOT\JRI\YAKUSON\21083151\21.dgn	drive	DRAWN -	REVISED -						4070	20-00098-00-BR	COOK	48	46
PLOT SCALE = 48,9999 1/1 IN.	CHECKED -	REVISED -	REVISED -						TC-21			CONTRACT NO. 61J43	
PLOT DATE = 9/14/2009	DATE -	REVISED -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.						

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

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



FILE NAME = N:\NORTHLAKE\940032DC187\Civil\XS_PALM_DC187.sht

USER NAME = doconnell	DESIGNED -	REVISIED -
	DRAWN -	REVISIED -
PLOT SCALE = 5'	CHECKED -	REVISIED -
PLOT DATE = 3/13/2023	DATE -	REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PALMER AVE OVER ADDISON CREEK

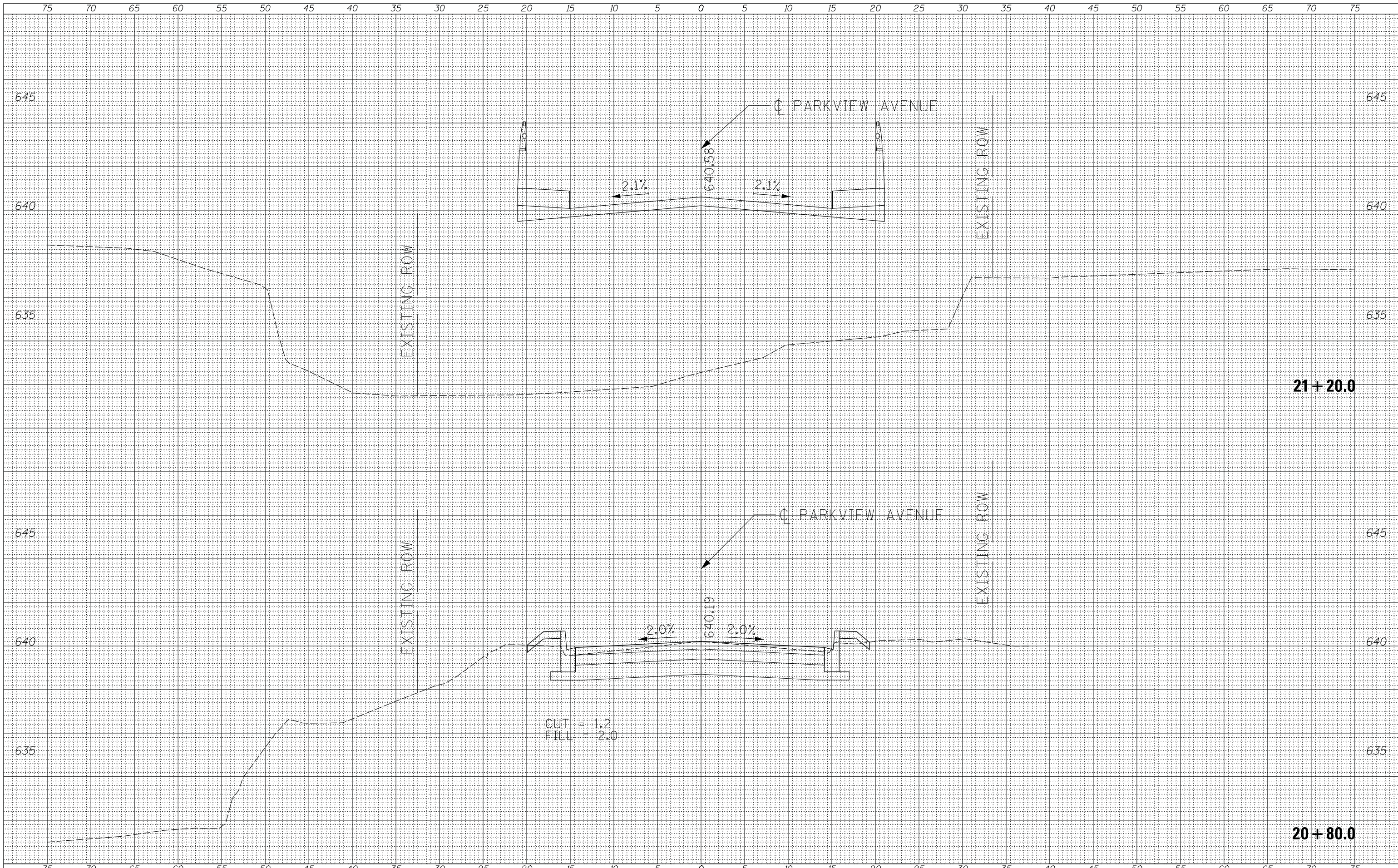
SCALE: H1"=5'; V1"=2'

SHEET OF SHEETS STA. 10+50 TO STA. 10+70

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070 3000	20-00098-00-BR	COOK	48	47
CONTRACT NO. 61143				
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = N:\NORTHLAKE\940032DC187\Civil\XS_PVIEW_DC187.sht
 USER NAME = doconnell
 PLOT SCALE = 5'
 PLOT DATE = 3/13/2023

DESIGNED -	REVISIED -
DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 PARKVIEW DRIVE OVER ADDISON CREEK
 SCALE: H1"=5'; V1"=2'

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4070	20-00098-00-BR	COOK	48	48
3000				
				CONTRACT NO. 61143
				ILLINOIS FED. AID PROJECT