STATE OF ILLINOIS

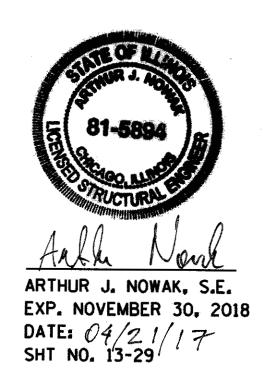
DEPARTMENT OF TRANSPORTATION

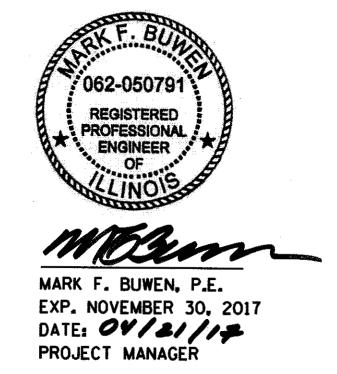
FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA 2014 ADT: 11,100

DESIGN DESIGNATION: MAJOR COLLECTOR

POSTED SPEED: 25 MPH **DESIGN SPEED: 30 MPH**

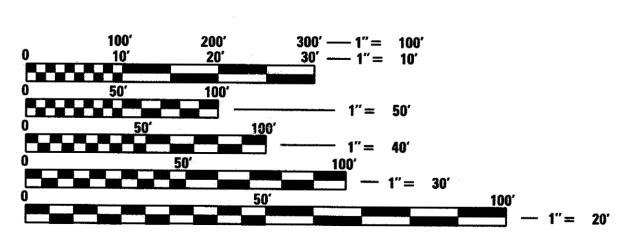




BEGIN IMPROVEMENT

END IMPROVEMENT

STA 15+33.27 ¢ SHERMER RD.

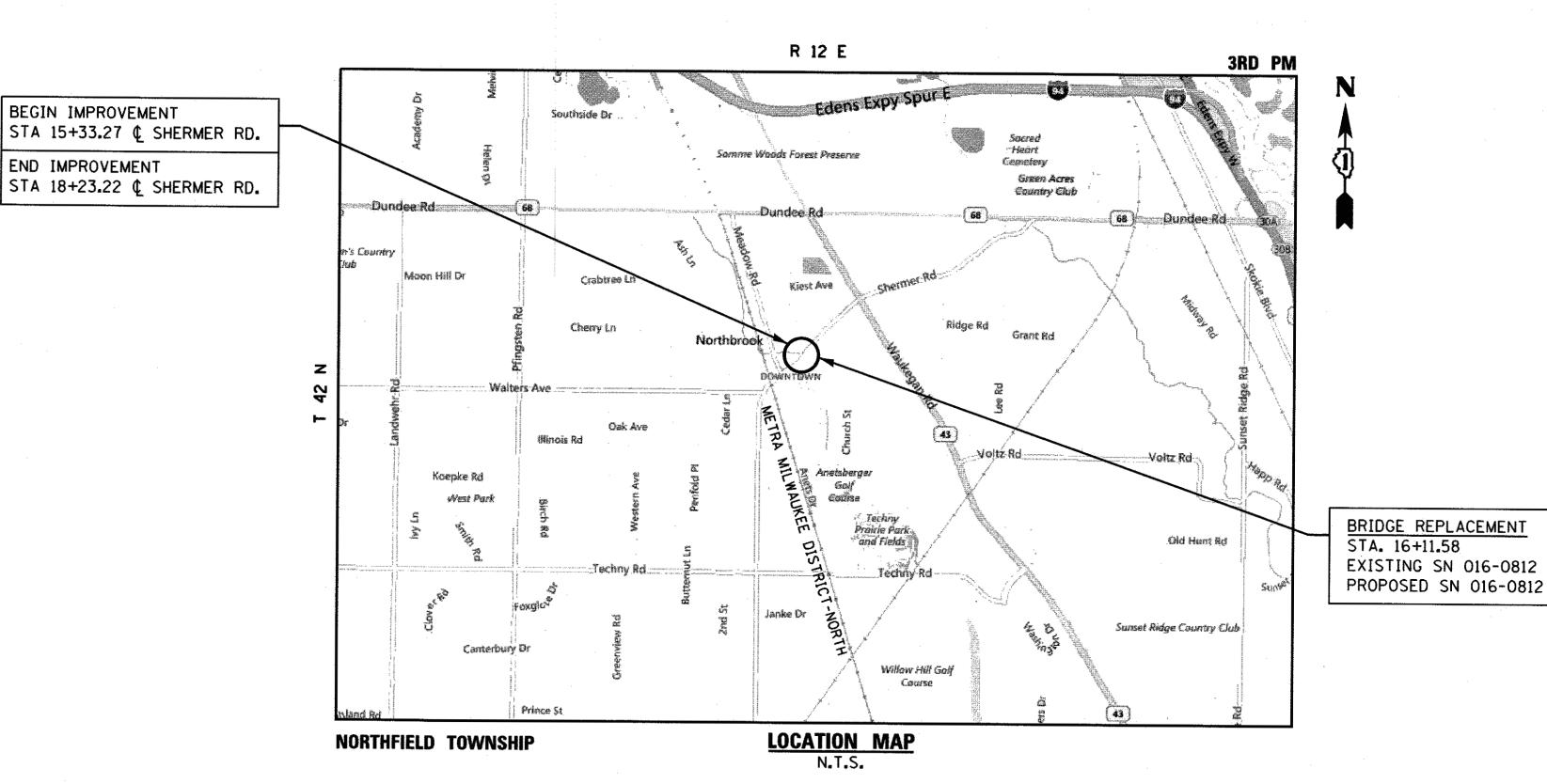


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 2760 (SHERMER ROAD) OVER WEST FORK, NORTH BRANCH, CHICAGO RIVER BRIDGE REHABILITATION SECTION NO. 14-00161-00-BR FEDERAL PROJECT NO. BRS-4003(383) VILLAGE OF NORTHBROOK COOK COUNTY JOB NO. C-91-444-14



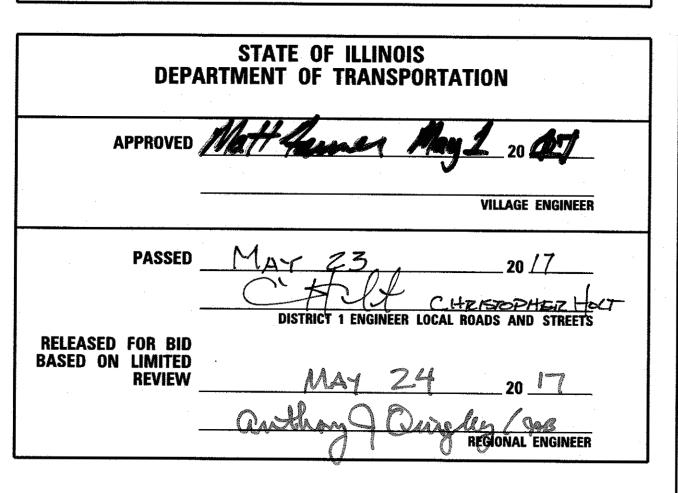
GROSS AND NET LENGTH = 289.95 FT. = 0.055 MILE

LOCATION OF SECTION INDICATED THUS: -

SECTION

14-00161-00-BR

CONTRACT NO. 61D98



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



CONTRACT NO. 61D98

INDEX OF SHEETS

SHEET NO.	DWG NO.	DESCRIPTION
1		COVER SHEET
2		INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS
3-7		SUMMARY OF QUANTITIES
8		TYPICAL SECTIONS
9		ALIGNMENTS, TIES, AND BENCHMARKS
10	•	EXISTING AND PROPOSED PLAN AND PROFILE
11		SUGGESTED MAINTENANCE OF TRAFFIC PLAN
12		DETOUR PLAN
13	·	EROSION AND SEDIMENT CONTROL GENERAL NOTES, STRATEGY AND PLAN
14	S-1	GENERAL PLAN & ELEVATION
15	S-2	GENERAL NOTES & SUMMARY OF QUANTITIES
16	S-3	REMOVAL DETAILS
17	S-4	PROPOSED DECK DETAILS
18	S-5	21" X 48" PPC DECK BEAM DETAILS - PART 1
19	S-6	21" X 48" PPC DECK BEAM DETAILS - PART 2
20	S-7	SIDEWALK AND PARAPET DETAILS
21	S-8	SOUTH APPROACH SLAB
22	S-9	NORTH APPROACH SLAB
23	S-10	APPROACH SLAB DETAILS
24	S-11	SIDEWALK ON GRADE DETAILS
25	S-12	SOUTH ABUTMENT REPAIRS
26	S-13	NORTH ABUTMENT REPAIRS
27	S-14	EXISTING BRIDGE RAIL DETAILS-1
28	S-15	EXISTING BRIDGE RAIL DETAILS-2
29	S-16	EXISTING BRIDGE RAIL DETAILS-3
30-34		DISTRICT ONE DETAILS

HIGHWAY STANDARDS

STANDARD NO.	TITLE
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-09	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
515001-03	NAME PLATE FOR BRIDGES
606001-06	CURB AND GUTTER
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

IDOT DISTRICT 1 STANDARDS

STANDARD NO.	TITLE
BD-24	CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-32	BUTT JOINT AND HMA TAPER
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKING
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS.

GENERAL NOTES

- 1. THE CONTRACTOR SHALL PERFORM ALL WORK IN THIS CONTRACT IN A MANNER THAT CONFORMS WITH THE NORTHBROOK MUNICIPAL CODE. THE CONTRACTOR'S ATTENTION IS DRAWN SPECIFICALLY TO THE PROVISIONS OF THE MUNICIPAL CODE REGARDING CONSTRUCTION EQUIPMENT TRACKING MUD ON PUBLIC STREETS (SEC. 16-1) AND DUST CONTROL (SEC. 16-25).
- 2. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND ITS SUPPLEMENTAL REFERENCES, PUBLISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTAION AND THE "STANDARDS AND SPECIFICATIONS FOR PUBLIC AND PRIVATE IMPROVEMENTS", PUBLISHED BY THE VILLAGE OF NORTHBROOK, SHALL BE INCORPORATED BY REFERENCE INTO THIS CONTRACT. ANY CONTRADICTION BETWEEN THESE REFERENCES UNRESOLVED BY THE SPECIAL PROVISIONS SHALL BE INTERPRETED BY THE ENGINEER.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APRIL 1, 2016 EDITION OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND IN ACCORDANCE WITH IDOT'S "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2017. THE ENGINEER WILL RESOLVE ANY CONFLICTS WHICH MAY EXIST BETWEEN THESE SPECIFICATIONS.
- 4. ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED AS THE RESIDENT ENGINEER.
- 5. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES WHICH HAVE FACILITIES PRESENT IN THE PROJECT AREA BEFORE ANY WORK IS STARTED. ALL UTILITY COMPANIES AND LOCAL POLICE AND FIRE DEPARTMENTS SHOULD BE NOTIFIED BY THE CONTRACTOR AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION. ALL UTILITIES MUST BE STAKED PRIOR TO CONSTRUCTION.
- 6. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- 7. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE, COUNTY, OR MUNICIPAL PROPERTY WITHOUT WRITTEN PERMISSION FROM THE JURISDICTIONAL AGENCY OR MUNICIPALITY.
- 8. MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE: COMED, NICOR GAS, WIDE OPEN WEST, TDS METROCOM, VERIZON (MCI), AT&T, AND THE VILLAGE OF NORTHBROOK SEWERS AND WATER MAINS.
- 9. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
- 10. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, VILLAGE OF NORTHBROOK, AND COOK COUNTY.
- 11. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 12. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 13. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 14. THE LOCATIONS AND DEPTHS OF EXISTING DRAINAGE STRUCTURES, STORM SEWER, WATER MAIN, SANITARY SEWER, AND OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE, AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE PER ARTICLES 105.07 AND 107.31 OF THE STANDARD SPECIFICATIONS.
- 15. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

- 17. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LIMITS SHOWN ON THE PLANS SHALL BE REPLACED.
- 18. ALL ROADWAY DIMENSIONS ARE FROM EDGE-TO-EDGE UNLESS OTHERWISE INDICATED. ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
- 19. RECORD DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE VILLAGE OF NORTHBROOK'S REQUIREMENTS AND SHALL BE SUBMITTED IN ELECTRONIC FORMAT.

EARTHWORK AND PAVING

- 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER WORK TO EXISTING CURBS & GUTTERS IN THE FIELD, UNLESS OTHERWISE SHOWN.
- 2. WHERE THE PROPOSED BITUMINOUS SURFACE MEETS AN EXISTING SURFACE, THE CONTRACTOR, AS DIRECTED BY THE ENGINEER, WILL CONSTRUCT A BUTT JOINT BY SAWING AND GRINDING THE EXISTING BITUMINOUS SURFACE.

COMMITMENTS

- 1. TREES ARE NOT TO BE CLEARED DURING CONSTRUCTION OPERATIONS. ACCESS FOR THE IN-STREAM WORK WILL BE ALLOWED AFTER THE SUPERSTRUCTURE IS REMOVED.
- 2. VEHICULAR AND PEDESTRIAN ACCESS WILL BE MAINTAINED FOR ALL RESIDENCES AND BUSINESSES DURING CONSTRUCTION OPERATIONS.
- 3. THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH STEVEN WEINSTOCK, OF PACE, 10 DAYS PRIOR TO INITIATING TRAFFIC DETOUR OPERATIONS. MR. WEINSTOCK MAY BE REACHED AT 847-228-2339, OR STEVEN.WEINSTOCK@PACEBUS.COM.

ILE NAME =	USER NAME = jdizenzo	DESIGNED - JWM	REVISED -	
		DRAWN - JWM	REVISED -	
	PLOT SCALE = 2.0000 '/ in.	CHECKED - MFB	REVISED -	***************************************
efault	PLOT DATE = 5/24/17	DATE - 5/24/17	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX	0F	SHE	ETS,	HIGHV	VAY	STANDARDS	\$,	
GENI	ERAL	. NO	TES	AND	CON	IMITMENTS		
SHEET	1	OF	1	SHEETS	ST	A.	TO	STA.

SCALE: NONE

	ILLINOIS FED. A	ID PROJECT		
		CONTRAC	T NO. 6	S1D98
	14-00161-00-BR	СООК	34	2
J.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

						NSTRUCTION TYPE CODE	S	
						RTICIPATION - 20% LOCAL MATCH		NON-PARTICIPATION 100% LOCAL FUNDS
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP-BR ROADWAY 0004	STP-BR SN 016-0812 0014	STP-BR TRAFFIC SIGNALS 0021	TRAINEES 0042	LOCAL FUNDS ROADWAY 0004
20101000	TEMPORARY FENCE	FOOT	150	150				
20101100	TREE TRUNK PROTECTION	EACH	10	10				
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	9	9				
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9	9				
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	9	9				
20200100	EARTH EXCAVATION	CU YD	50	50				
25000300	SEEDING, CLASS 3	ACRE	0. 25	0. 25				
25100630	EROSION CONTROL BLANKET	SO YD	20	20				
28000400	PERIMETER EROSION BARRIER	FOOT	90					
		7001	30	90			· · · · · · · · · · · · · · · · · · ·	
28000510	INLÉT FILTERS	EACH	2	2				
28100107	STONE RIPRAP, CLASS A4	SQ YD	401		401			•
28200200	FILTER FABRIC	SQ YD	401		401			
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	430	30				400
4050099	HOT-MIY ASPUALT SUPEACE DEMOVAL SUFF COME							
	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	142	64			· · · · · · · · · · · · · · · · · · ·	78
S = SPECIAL * = SPECIAL	PROVISION, PLAN NOTE, OR DETAIL HAS BEEN PROVIDED TY ITEM							

FILE NAME =

USER NAME = Jdizenzo

PLOT DATE = 5/30/17

PLOT SCALE = 2.0000 '/ in.

DESIGNED - JWM

DRAWN - JWM

CHECKED - MFB

DATE - 5/30/17

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET 1 OF 5 SHEETS STA.

TO STA.

SCALE:

F.A.U. SECTION COUNTY TOTAL SHEET NO. 2760 14-00161-00-BR COOK 34 3

CONTRACT NO. 61D98

ILLINDIS FED. AID PROJECT

CODE					FEDERAL PA 80% FEDERAL FUNDS	ONSTRUCTION TYPE CODE ARTICIPATION S - 20% LOCAL MATCH		NON-PARTICIPAT 100% LOCAL FUN
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP-BR ROADWAY 0004	STP-BR SN 016-0812 0014	STP-BR TRAFFIC SIGNALS 0021	TRAINEES 0042	LOCAL FUNDS ROADWAY 0004
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	81	6				75
42001300	PROTECTIVE COAT	SQ YD	201	8	193			
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	839	839				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	133	50	83			
44000600	SIDEWALK REMOVAL	SQ FT	818	818				
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1			
50102400	CONCRETE REMOVAL	CU YD	50. 7		50. 7			
50104000	BRIDGE RAIL REMOVAL	FOOT	176		176			
50201101	COFFERDAM (TYPE 1) (LOCATION-1)	EACH	2 .		2			
50300225	CONCRETE STRUCTURES	CU YD	28. 0		28. 0			
50300255	CONCRETE SUPERSTRUCTURE	CU YD	48. 4		48. 4			
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	75. 2		75. 2			
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	2,640		2,640			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	22, 590		22, 590			
= SPECIAL = SPECIAL	PROVISION, PLAN NOTE, OR DETAIL HAS BEEN PROVIDED							

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

TO STA.

SHEET 2 OF 5 SHEETS STA.

SCALE:

SECTION

14-00161-00-BR

COUNTY

СООК

CONTRACT NO. 61D98

ILLINOIS FED. AID PROJECT

DRAWN - JWM

CHECKED - MFB

DATE - 5/24/17

PLOT SCALE = 2.0000 '/ in.

PLOT DATE = 5/24/17

REVISED -

REVISED -

REVISED -

ON SULTING S. LeSelle Street, Sulte 3000A,

					CON	NSTRUCTION TYPE CODE	S	
					80% FEDERAL FUNDS	RTICIPATION - 20% LOCAL MATCH		NON-PARTICIPATION 100% LOCAL FUND
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP-BR ROADWAY 0004	STP-BR SN 016-0812 0014	STP-BR TRAFFIC SIGNALS 0021	TRAINEES 0042	LOCAL FUNDS ROADWAY 0004
50800530	MECHANICAL SPLICERS	EACH	1,176		1, 176		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
51500100		EACH	1		1			
58700300	CONCRETE SEALER	SQ FT	442		442			
59000200	EPOXY CRACK INJECTION	FOOT	11		11			
60255500	MANHOLES TO BE ADJUSTED	EACH	8	2				6
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	50	50				
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	50		50			
66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1		1			
66900530	SOIL DISPOSAL ANALYSIS	EACH	3		3			
	MOBILIZATION	LSUM			1			
.,	PAVEMENT MARKING - LINE 4"	FOOT FOOT		63	336			681
LR430040	PAVING BRICK SIDEWALK	SQ YD	334	94	240			
X0323078	REMOVE AND RE-ERECT EXISTING BRIDGE RAIL	FOOT	162		162			
	RELOCATE EXISTING ELECTRICAL SYSTEM	LSUM	1		1			

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SCALE:

TOTAL SHEET SHEETS NO. 34 5

CONTRACT NO. 61D98

COUNTY

СООК

ILLINOIS FED. AID PROJECT

SECTION

14-00161-00-BR

SUMMARY OF QUANTITIES

TO STA.

SHEET 3 OF 5 SHEETS STA.

S. LaSelle Street, Sultre 3000A,

FILE NAME =

DESIGNED - JWM

CHECKED - MFB

DATE - 5/24/17

- JWM

DRAWN

USER NAME = jdizenzo

PLOT DATE = 5/24/17

PLOT SCALE = 2.0000 '/ in.

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· ·					FEDERAL PA 80% FEDERAL FUNDS	NSTRUCTION TYPE CODE ARTICIPATION 5 - 20% LOCAL MATCH	S	NON-PARTICIPATION 100% LOCAL FUNDS
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP-BR ROADWAY 0004	STP-BR SN 016-0812 0014	STP-BR TRAFFIC SIGNALS 0021	TRAINEES 0042	LOCAL FUNDS ROADWAY 0004
S X0326817	STANDARD BRICK VENEER	SQ FT	484		484			
S X0326864	BRICK SIDEWALK REMOVAL	SQ FT	3, 004	849	2, 155			
S X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	220	220				
X0327985	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	167	167				
S X1200064	GEOTECHNICAL FABRIC, SPECIAL	SQ YD	334	94	240			
S X2030300	CHANNEL EXCAVATION (SPECIAL)	CU YD	793		793			
S X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	50	50				
5 X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	12	12				
S X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1				
S X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	270	270				
S XX003067	CONCRETE BRIDGE RAIL (SPECIAL)	FOOT	176		176			
Z0004552	APPROACH SLAB REMOVAL	SQ YD	288		288			
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	157		157			
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	157		157			
Z0010400	CLEANING BRIDGE SEATS	SQ FT	442		442			
S = SPECIA • = SPECIA	L PROVISION, PLAN NOTE, OR DETAIL HAS BEEN PROVIDED LTY ITEM							

SOVER DE LES IN S. Lessile Street, Suite 3000A,

FILE NAME =

DESIGNED - JWM

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DATE

- 5/24/17

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USER NAME = jdizenzo

PLOT DATE = 5/24/17

PLOT SCALE = 2.0000 '/ in.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET 4 OF 5 SHEETS STA. TO STA.

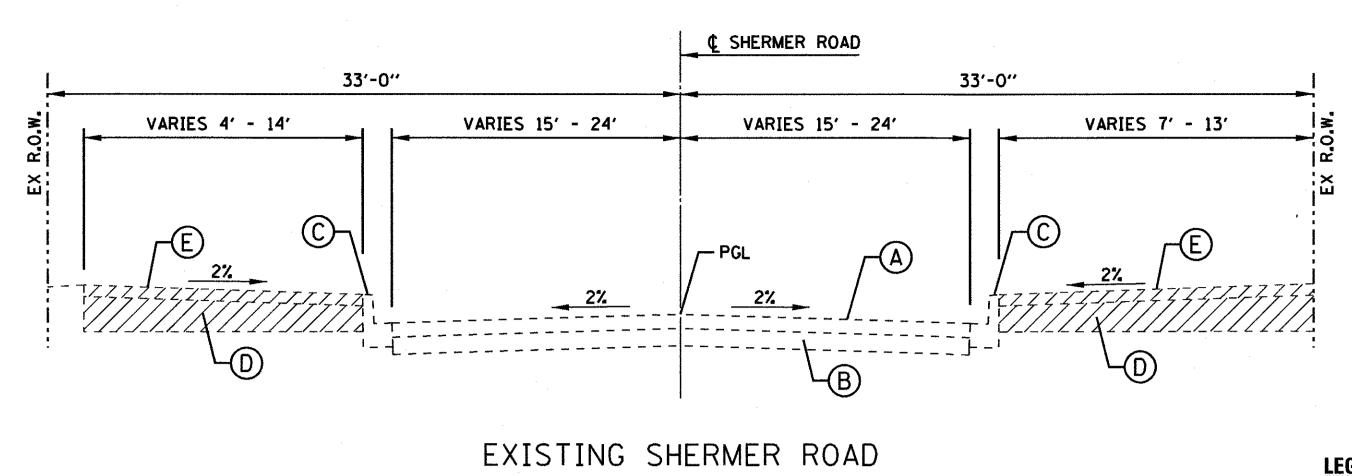
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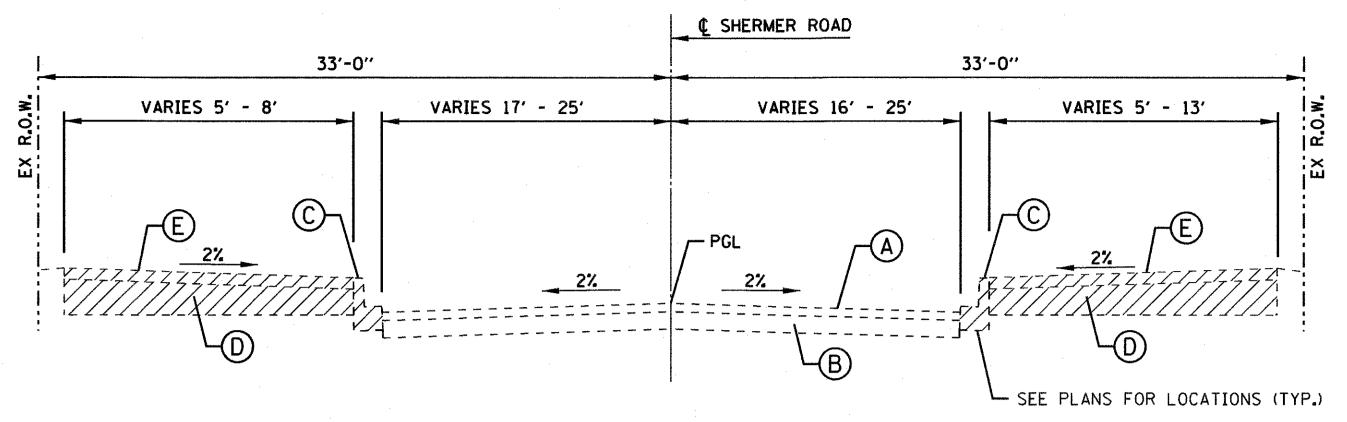
F.A.U. RTE. SECTION COUNTY SHEETS NO. 2760 14-00161-00-BR COOK 34 6

CONTRACT NO. 61D98

ILLINOIS FED. AID PROJECT

			,			NSTRUCTION TYPE CODE ARTICIPATION 5 - 20% LOCAL MATCH	<u>S</u>	NON-PARTICIPATION
CODE NO.	ITEM	UNIT	TOTAL	STP-BR ROADWAY 0004	80% FEDERAL FUNDS STP-BR SN 016-0812 0014	S - 20% LOCAL MATCH STP-BR TRAFFIC SIGNALS 0021	TRAINEES 0042	100% LOCAL FUNDS LOCAL FUNDS ROADWAY 0004
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES	SQ FT	34		34			
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1:			·	
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	7			7	·	
Z0076600	TRAINEES	HOUR	500				500	
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500				500	
		· · · · · · · · · · · · · · · · · · ·						
XX009186	ULTRA-HIGH PERFORMANCE CONCRETE (UHPC) JOINTS	CU FT	153		153			
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Med Salar and American			,		^			
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	PLOT SCALE = 2.0000 '/ 10.	D		TRANSPORTATION	SCALE: SHEET	OF 5 SHEETS STA.	TO STA.	14-00161-00-BR COOK 34 CONTRACT NO ILLINOIS FED. AID PROJECT





STA. 15+33.27 TO STA. 15+69.22

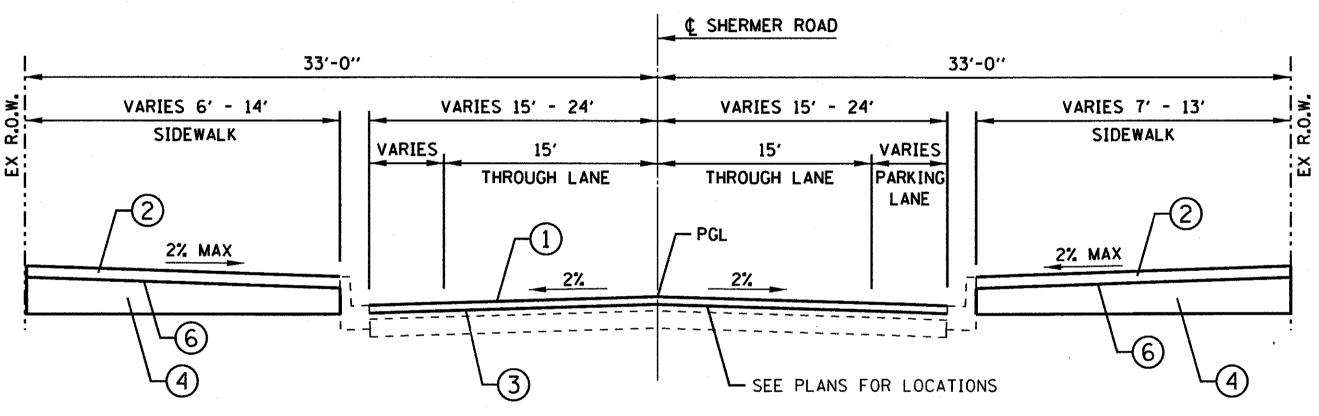
LEGEND - EXISTING

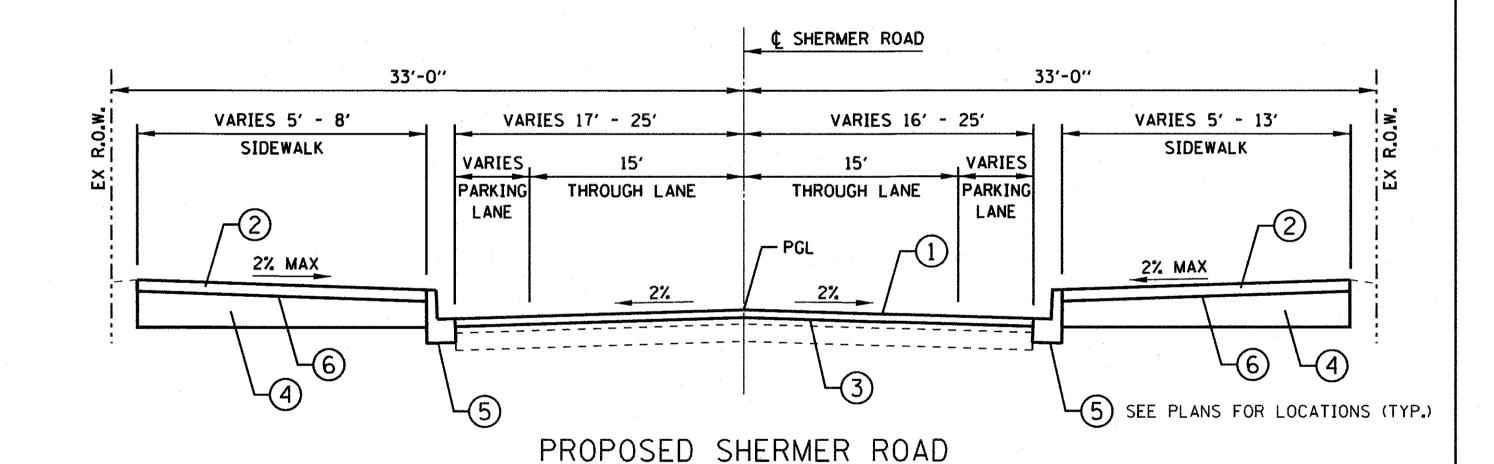
- A BITUMINOUS PAVEMENT
- (B) AGGREGATE BASE
- C COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (D) CONCRETE SIDEWALK
- E BRICK PAVERS

REMOVAL ITEM

EXISTING SHERMER ROAD

STA. 16+53.22 TO STA. 18+23.22





STA. 16+53.22 TO STA. 18+23.22

PROPOSED SHERMER ROAD

STA. 15+33.27 TO STA. 15+69.22

LEGEND - PROPOSED

- 1) HMA SURFACE COURSE, MIX "D", N70, 1.5"
- (2) PAVING BRICK SIDEWALK
- 3 BITUMINOUS MATERIALS (TACK COAT)
- 4 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 6 GEOTECHNICAL FABRIC, SPECIAL

NOTES

1. NOTE: BRIDGE WORK OMISSION STA 15+69.22 TO STA 16+53.22

SCALE: 1"=20"

SHEET 1

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE AIR VOIDS
PAVEMENT

4% @ 70 Gyr.

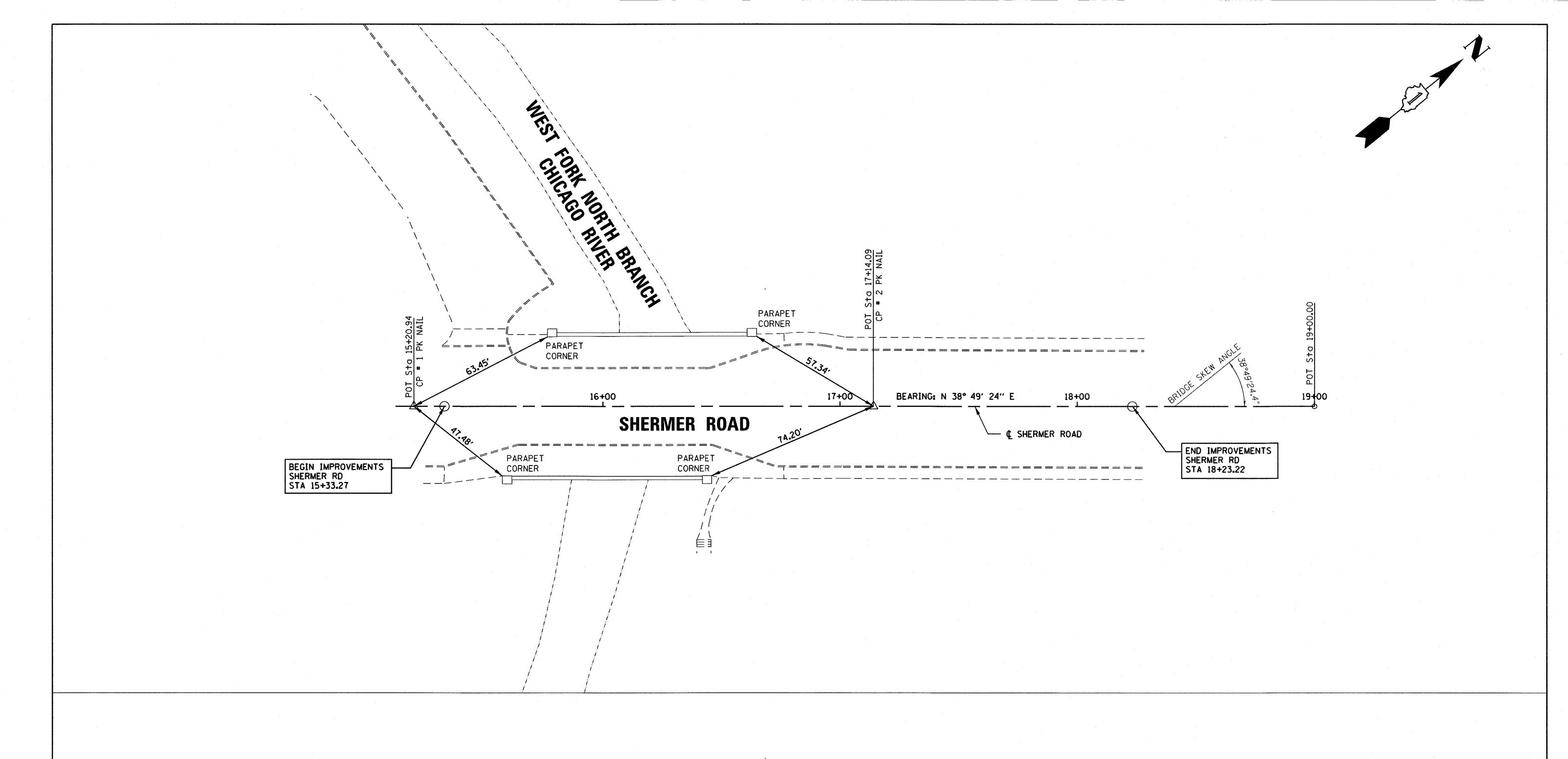
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 1.5"

- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
- FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS.
- FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

i				
FILE NAME =	USER NAME = jdizenzo	DESIGNED - JD	REVISED -	
		DRAWN - JD, JWM	REVISED -	
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STATI	E OI	FILLINOIS
DEPARTMENT	OF	TRANSPORTATION

TVDICAL OFOTIONO		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
IYPICA	TYPICAL SECTIONS		2760	14-00161-00-BR	СООК	34	8	
						CONTRAC	T NO.	61D98
OF 1	SHEETS	STA.	TO STA.	**************************************	ILLINOIS FED.	AID PROJECT		, ,



BENCHMARKS

BENCHMARK NUMBER	DESCRIPTION	ELEVATION•	
1	PK NAIL SET IN THE CENTERLINE OF SHERMER RD. LOCATED APPROXIMATELY 50' SOUTH OF THE BRIDGE AT STA 15+20.94.	645.17	
2	PK NAIL SET IN THE CENTERLINE OF SHERMER RD. LOCATED APPROXIMATELY 60' NORTH OF THE BRIDGE AT STA 17+14.09.	646.10	
42	SOUTHEAST FLANGE BOLT ON THE FIRE HYDRANT AT THE NORTHEAST CORNER OF SHERMER RD AND OAK AVE.	644.56	

•DATUM=NAVD 88

HORIZONTAL CONTROL POINTS

CONTROL POINT NO.	STATION	0/\$	N	E
1	POT 15+20.94	0'	1990162.40	1121904.03
2	POT 17+14.09	0'	1990313.27	1122025.43

TOTAL SHEET NO. 34 9

CONTRACT NO. 61D98

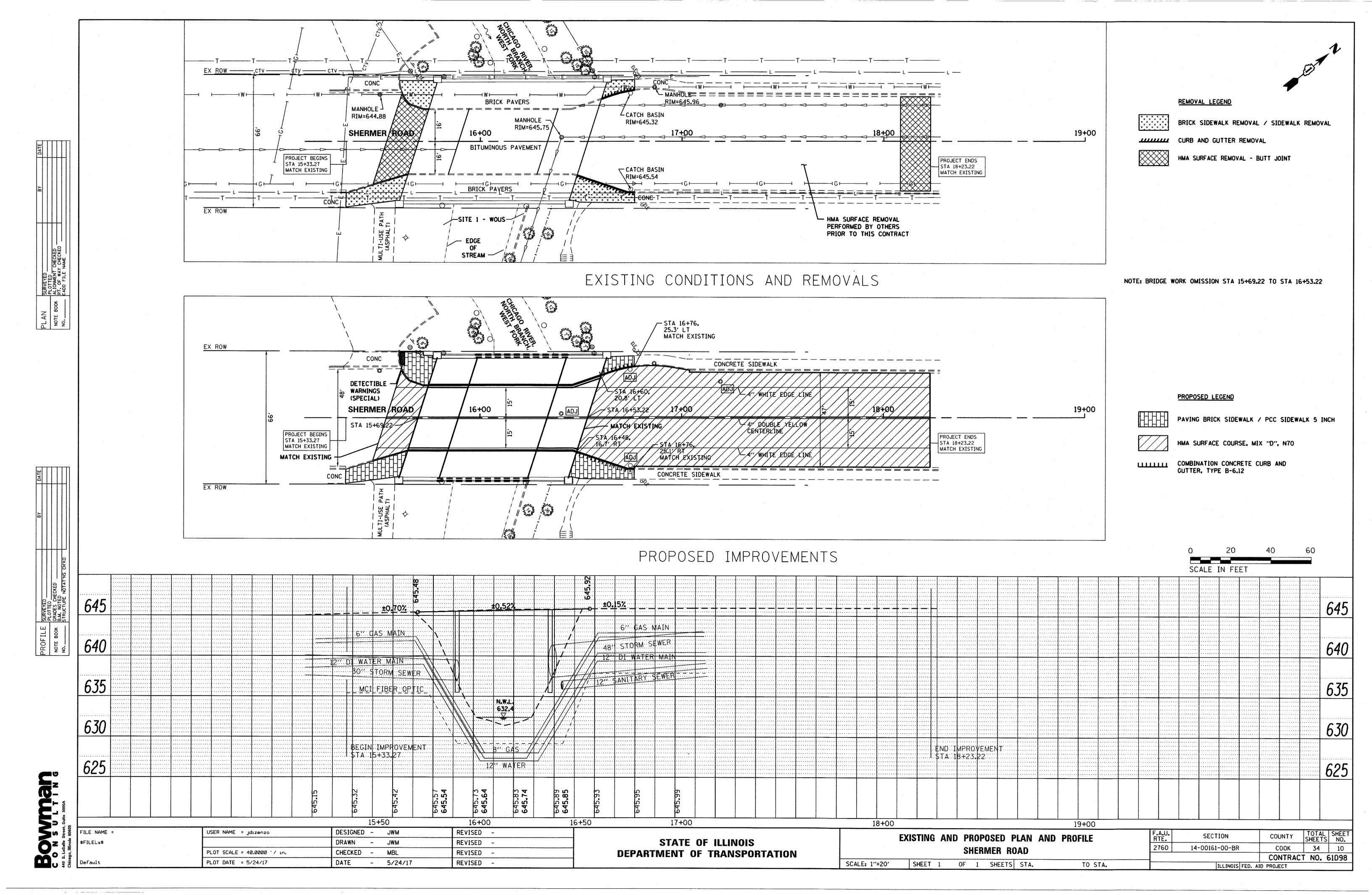
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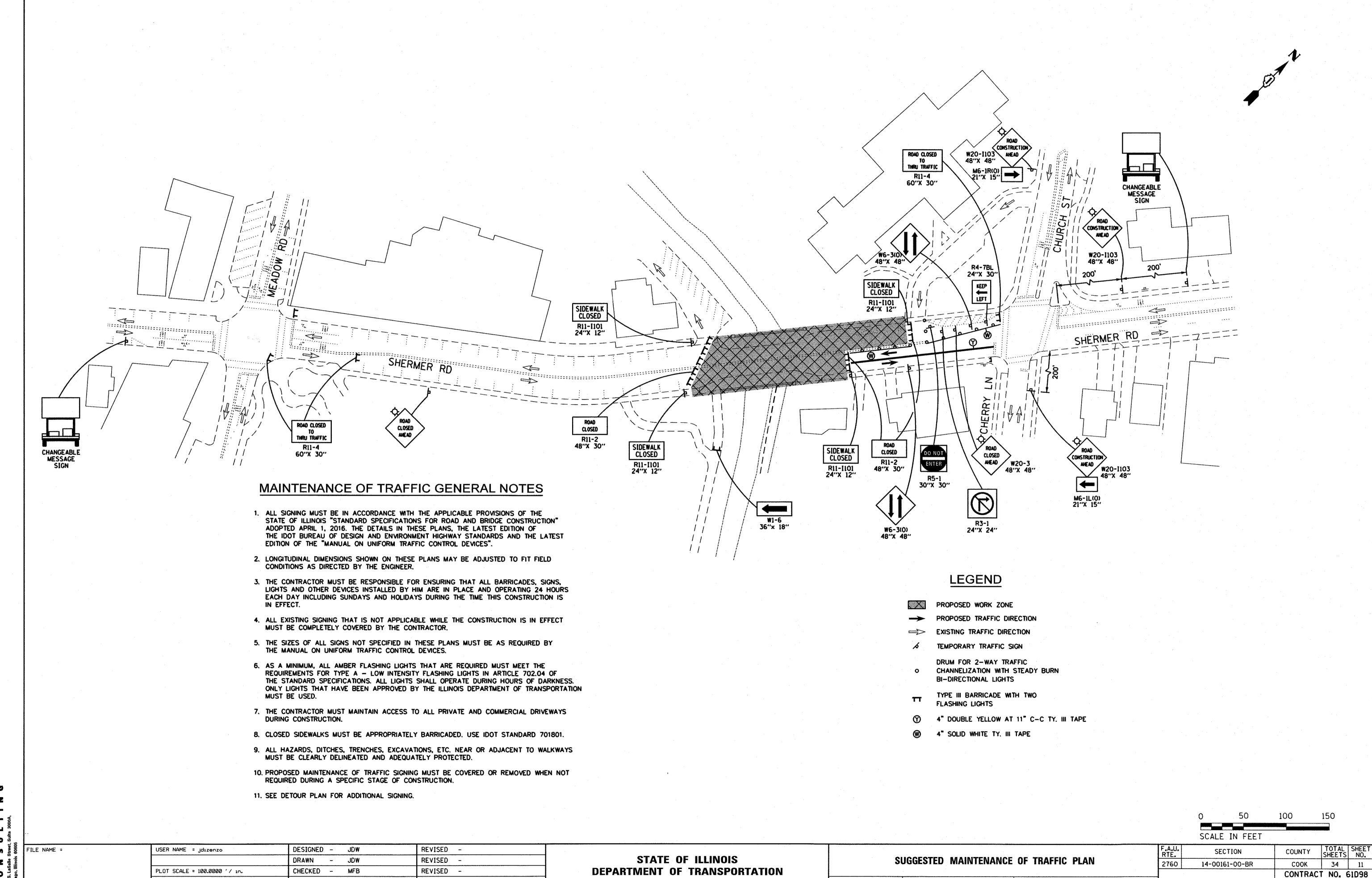
ILLINOIS FED. AID PROJECT

SECTION

14-00161-00-BR

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O LaSa	o, ⊞ ii		PLOT SCALE = 20:0.000001 ':" / 10.	CHECKED - MI	AFB REVIS	······································	DEPARTMENT OF TRANSPORTATION		The state of the s	216	
lo §	를 D.	efault	PLOT DATE = 5/24/17	DATE - 5/	7/24/17 REVIS			SCALE: 1"=10"	SHEET 1 OF 1 SHEETS STA. TO STA.	*	





SCALE: 1"=50"

SHEET 1 OF 1 SHEETS STA.

TO STA.

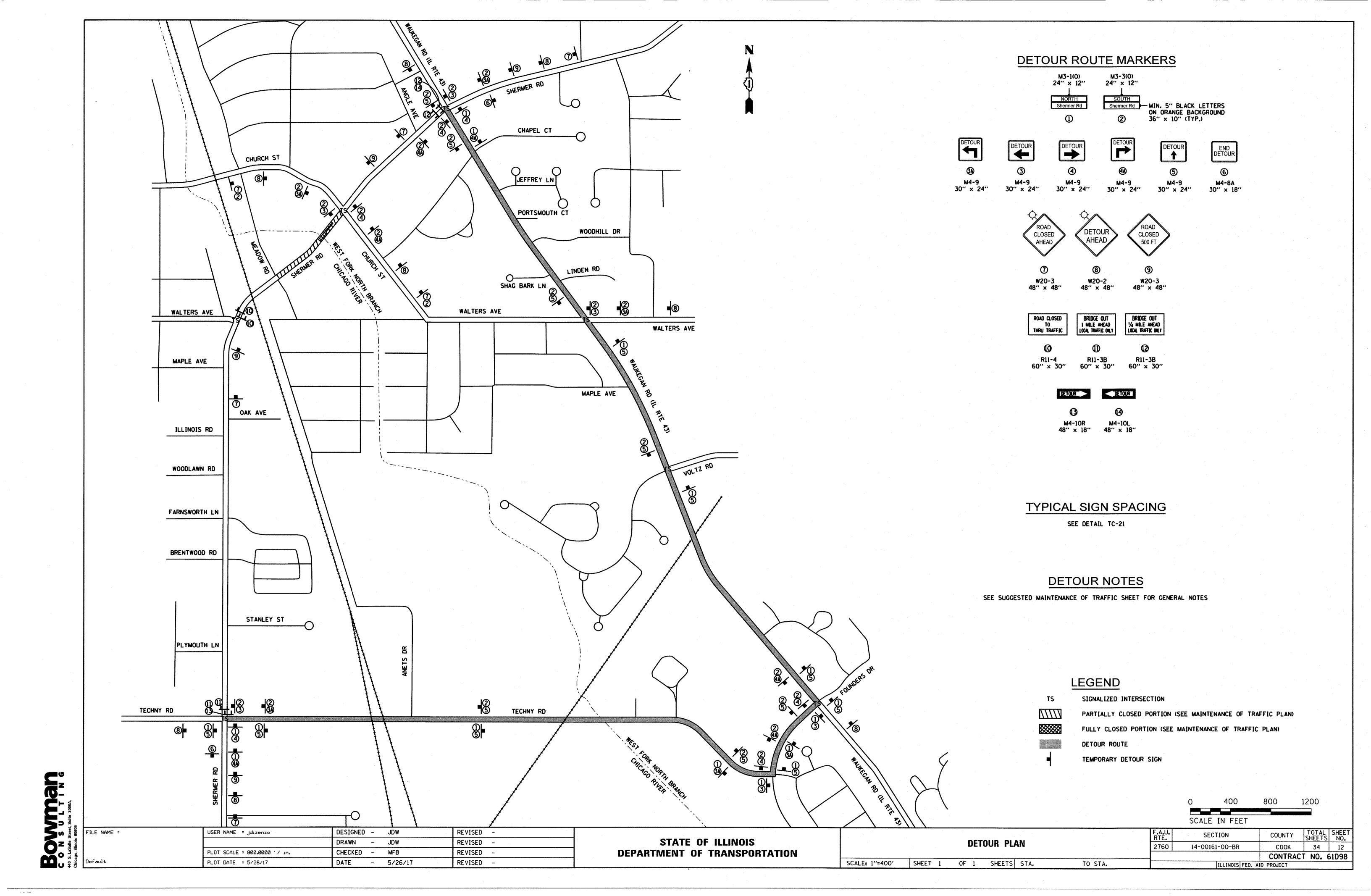
ILLINOIS FED. AID PROJECT

Bowman

DATE - 5/26/17

PLOT DATE = 5/26/17

REVISED -



EROSION AND SEDIMENT CONTROL GENERAL NOTES

- 1. THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS ON DOWNSTREAM AREAS.
- 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT.
- 3. TO THE MAXIMUM EXTENT POSSIBLE. ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL BE CONVEYED THROUGH THE SITE IN A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.
- 4. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES AS RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. THIS PERSON IS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES AND IS TO HAVE TAKEN AN APPROVED EROSION AND SEDIMENT CONTROL COURSE. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES WILL BE INSPECTED BY THIS INDIVIDUAL AND THE ENGINEER ON A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER RAINFALL EVENTS CREATER THAN 0.5 INCH. OR SNOW FALL EQUIVALENT.

- 6. THE CONTRACTOR IS ADVISED THAT IN-STREAM WORK IS REQUIRED TO PLACE THE RIP RAP. SEDIMENT LADEN DEWATERING DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING MEASURE PRIOR TO RELEASE FROM THE SITE. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AN IN-STREAM WORK PLAN PRIOR TO STARTING CONSTRUCTION.
- 7. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS LOW FLOW CONDITION ARE FLOW AT OR BELOW THE NORMAL WATER ELEVATION.
- 8. THE ISOLATED AREA WITH COFFERDAM SHALL BE THE MINIMUM NECESSARY TO COMPLETE THE WORK.
 LIMIT TO 1/2 THE CHANNEL WIDTH. TO MINIMIZE EROSION ON THE OPPOSITE SIDE OF THE BANK.
- THE NORTH COOK COUNTY SOIL WATER CONSERVATION DISTRICT MUST BE NOTIFIFED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION MEETING, ONE WEEK PRIOR TO COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO FINAL INSPECTION.
- 10. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS.
 ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING BODY.
- 11. IF RIPRAP INSTALLATION TAKES MORE THAN TWO DAYS, CONTACT THE NORTHERN COOK COUNTY SOIL WATER CONSERVATION DISTRICT FOR FURTHER INSTRUCTION.
- 12. RIPRAP IS TO BE PLACED AT AN ELEVATION BELOW THE EXISTING STREAMBED ELEVATION, AND THEN BACKFILLED TO PRESERVE THE NATURAL CHANNEL BOTTOM. SEE STRUCTURAL PLANS FOR DETAILS.

DEPARTMENT OF TRANSPORTATION

13. COFFERDAM SHALL BE CONSTRUCTED FROM THE UPLAND, AND NO CONSTRUCTION EQUIPMENT SHALL ENTER THE WATER WAY UNTIL THE COFFERDAM HAS BEEN CONSTRUCTED AND DEWATERING HAS OCCURED.

EROSION AND SEDIMENT CONTROL STRATEGY

DISTURBED AREA: 0.12 ACRES
RECEIVING WATERS: CHICAGO RIVER, NORTH BRANCH, WEST FORK

- A. INSTALL PERIMETER EROSION BARRIER AND INLET AND PIPE PROTECTION
- B. INSTALL TREE TRUNK PROTECTION AND TEMPORARY FENCE
- C. INSTALL COFFERDAM
- D. INSTALL RIPRAP, SEEDING, AND FERTILIZER NUTRIENTS
- E. INSTALL EROSION CONTROL BLANKET
- F. REMOVE TREE TRUNK PROTECTION, TEMPORARY FENCE, PERIMETER EROSION BARRIER, AND INLET AND PIPE PROTECTION

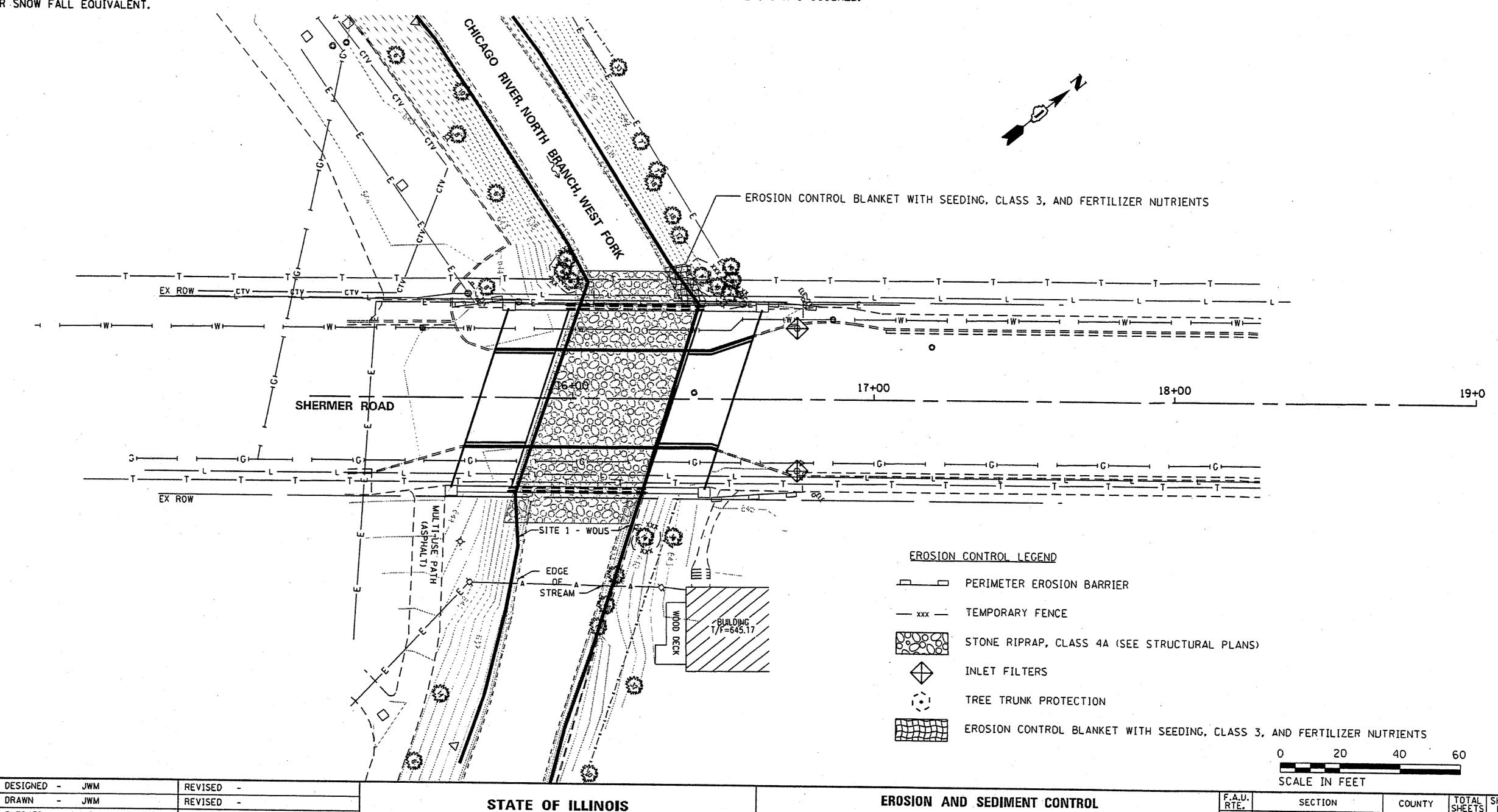
14-00161-00-BR

COOK

ILLINOIS FED. AID PROJECT

34

CONTRACT NO. 61098



SCALE: 1"=20"

GENERAL NOTES, STRATEGY AND PLAN

TO STA.

SHEET 1 OF 1 SHEETS STA.

FILE NAME =

USER NAME = Jdizenzo

PLOT DATE = 5/30/17

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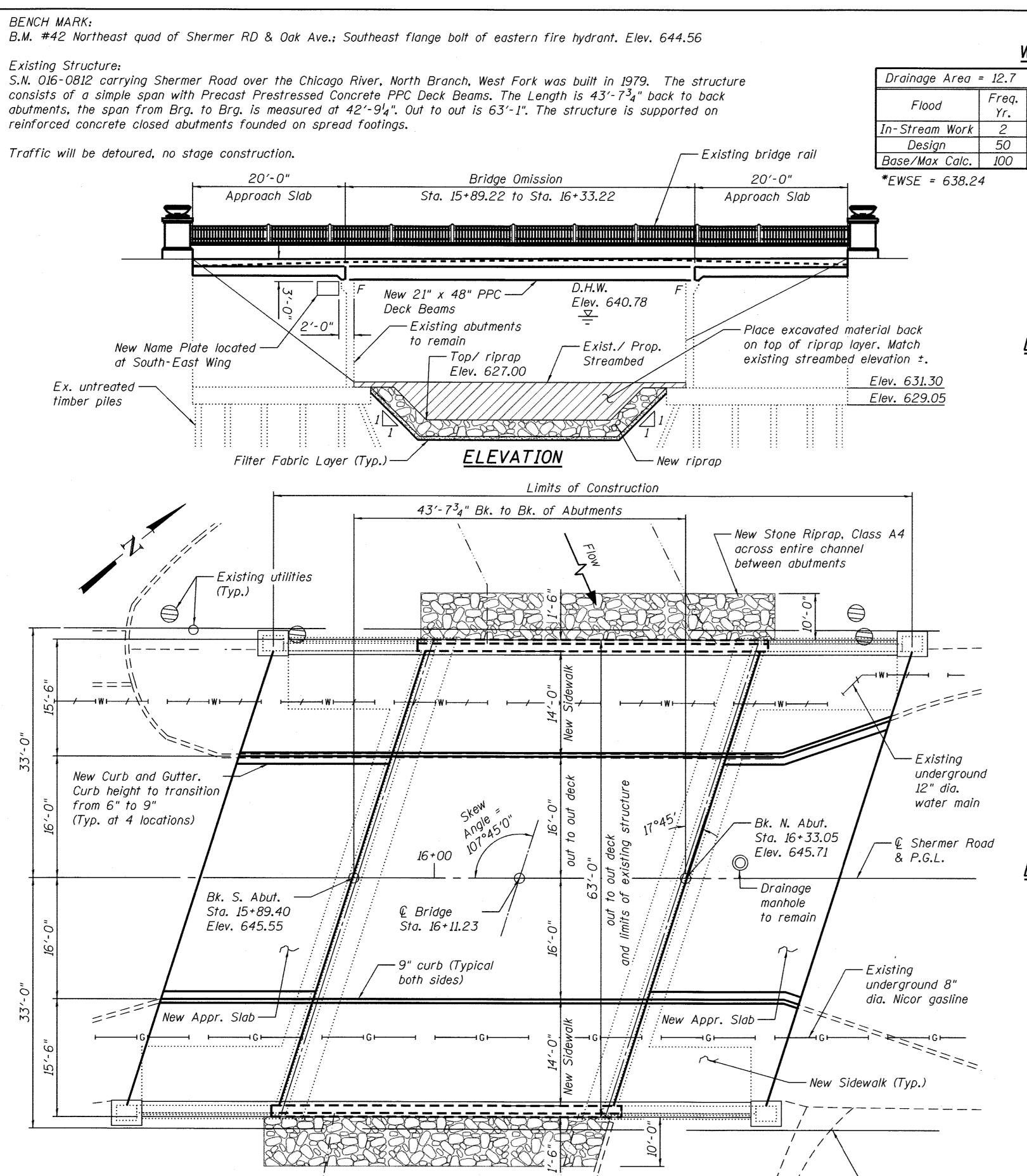
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- 5/30/17

DATE

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WATERWAY INFORMATION

Drainage Area	= 12.7		Lo	ow Grade	Elev. 64	43.17 ©	Sta. 1	6+11.23	
Flood Freq. Q		Opening Sq. Ft.		Nat.	Head - Ft.		Headwater El.		
7 1000	Yr.	<i>C.F.S.</i>	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
In-Stream Work	2	174	n/a	n/a	638.24	0.00	0.00	638.24	638.24
Design	50	718	330	330	640.78	0.01	0.01	640.79	640.79
Base/Max Calc.	100	848	348	348	641.20	0.01	0.01	641.21	641.21

NORTH BRANCH. WEST FORK RE-BUILT 2018 BY VILLAGE OF NORTHBROOK SEC. 14-00161-00-BR F.A. RT. 2760 STA. 16+11.23 STR. NO. 016-0812 LOADING HL93

LETTERING FOR NEW NAME PLATE

LOADING HL-93 (NEW CONSTRUCTION ONLY)

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

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

FIELD UNITS

New Construction

f'c = 3,500 psi

f'c = 24,000 psi (UHPC joint closure pour between

PPC deck beams)

fy = 60,000 psi (Reinforcement) fy = 50.000 psi (M270 Grade 50)

SHOP-PRESTR. BEAMS

New Construction f'c = 6,000 psi

f'cl = 5,000 psi

fpu = 270,000 psi (0.5 inch low relaxation strand) fppt = 202,500 psi (0.75 fpu) - Initial tension

f's = 177,410 psi - final tension

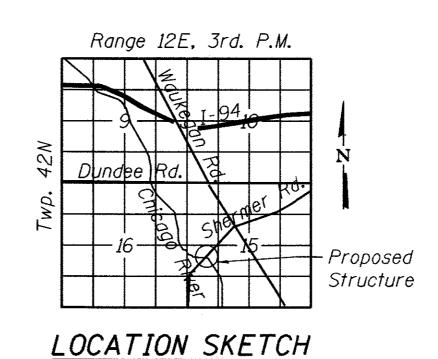
Existing Construction - Abutments

fs = 24,000 psi

fc = 1,400 psi

DESIGN SCOUR ELEVATION TABLE

Desig	<i>Item</i>		
·	W. Abut.	E. Abut.	113
0100	629.05	629.05	8
0200	629.05	629,05	8



SCOPE OF WORK:

- 1. Remove and salvage bridge metal railings, posts and flower planters.
- 2. Remove brick from bridge rail system.
- 3. Remove brick pavers from sidewalks.
- 4. Remove all precast concrete bridge rail elements.
- 5. Remove and dispose existing bituminous bridge overlay, waterproofing material and remaining elements of bridge rail and sidewalks not described above.
- 6. Remove and dispose existing 21"x48" Precast Prestressed Concrete (PPC) Deck Beams.
- 7. Install cofferdams.
- 8. Clean bridge seats and apply concrete sealer.
- 9. Install stone riprap across entire channel between abutments.
- 10. Repair substructure.
- 11. Install new 21"x48" Precast Prestressed Concrete (PPC) Deck Beams with the UHPC closure pour joints.
- 12. Install sidewalks and parapets.
- 13. Install $2\frac{1}{4}$ " latex concrete overlay.
- 14. Remove and replace bridge approach slabs.
- 15. Reinstall existing railings, posts and flower planters.
- 16. Install new brick pavers, new brick veneer and new precast
- concrete bridge rail elements.

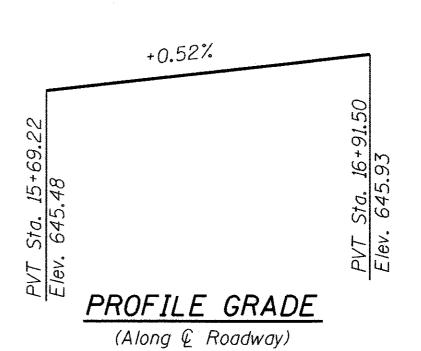
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1 Design Spectral Acceleration at 1.0 sec. $(S_{DI}) = 0.07q$ Design Spectral Acceleration at 0.2 sec. $(S_{DS}) = 0.12g$ Soil Site Class = C

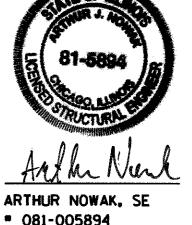
HIGHWAY CLASSIFICATION

F.A.U. Rte. 2760 Functional Class: Major Collector ADT: 9000 (2012); 11,000 (2016) ADTT: 540 (2012); 660 (2016) DHV: 900 Design Speed: 30 m.p.h. Posted Speed: 25 m.p.h. Two-Way Traffic (2 lanes)

Directional Distribution: 50:50



BOWMAN CONSULTING GROUP, LTD. ARTHUR NOWAK, SE



• 081-005894

11/30/2018 DATE __05/24/2017

I certify that to the best of knowledge, information, and belief, this bridge rehabilitation 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 AASHTO Standard Specifications for Highway Bridges.

GENERAL PLAN AND ELEVATION SHERMER ROAD BRIDGE OVER THE CHICAGO RIVER, NORTH BRANCH, WEST FORK F.A.U. RTE. 2760 - SECTION 14-00161-00-BR COOK COUNTY VILLAGE OF NORTHBROOK STATION 16+11.23 STRUCTURE NO. 016-0812

Bowman

A (A)	
AJN	REVISED -
JL	REVISED -
AJN	REVISED -
	JL

PLAN

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

R.O.W.

-Existing retaining wall /

STRUCTURE NO. 016-0812 SHEET NO. S-1 OF S-16 SHEETS

TOTAL SHEET SHEET NO. **SECTION** COUNTY 34 14 14-00161-00-BR COOK CONTRACT NO. 61D98 ILLINOIS FED. AID PROJECT

GENERAL NOTES

Cast-In-Place Concrete

- 1. All exposed concrete edges shall have a $\frac{3}{4}$ " x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished around level.
- 2. Cast counter weights at least 48 hours in advance of placing deck slab.

Reinforcement Bars

- 1. Reinforcement bars, including epoxy-coated reinforcement bars, shall conform to the requirements of AASHTO M-31 (ASTM A706), Grade 60, deformed bars.
- 2. Reinforcement bars designated "(E)" shall be epoxy coated.
- 3. Reinforcement bar bending details shall be in accordance with the latest "Manual of Standard Practice for Detailing Reinforced Concrete Structures". ACI 315.
- 4. Reinforcement bar bending dimensions are out to out.
- 5. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bars per line.
- 6. Cover from the face of concrete to face of reinforcement bars shall be 3" for surfaces formed against earth and 2" for all other surfaces unless otherwise shown.

Construction

- 1. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. The contractor shall field verify the proposed PPC beam lengths and order the beam fabrication during the winter months prior to the work start date. Such variations shall not be cause for additional compensation for a change in the scope of work; however, the Contractor shall be paid for the quantity actually furnished at the unit price for the work.
- 2. Contractor shall not scale dimensions from the Contract Plans for construction purposes. Scales shown are for information only.
- 3. No construction joints except those shown on the plans shall be allowed unless approved by the Engineer.
- 4. No concrete cutting shall be permitted until the cutting limits have been outlined by the Contractor and approved by the Engineer.
- 5. It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction.

 Contact J.U.L.I.E., 800-892-0123.
- 6. It shall be the Contractor's responsibility to verify the location of all fiber optic utilities prior to starting construction.
- 7. The Contractor shall use care when excavating around existing foundations. Any damage to the existing structure and/or supporting foundation shall be repaired or replaced at the Contractor's expense at no additional cost to the Village of Northbrook.
- 8. The fabricator, the Contractor and the beam transportation company shall provide adequate bracing and support for the PPC deck beams during handling, transporting, storing and erecting.
- 9. Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

Demolition Plan

1. The Contractor shall submit a demolition plan to the Engineer for review and acceptance, detailing the proposed methods of demolition and the amount, location(s) and type(s) of equipment to be used.

Erection Plan

- 1. The contractor shall provide beam erection plan. The erection plan shall be complete in detail for all phases, stages, and conditions anticipated during erection. The erection plan shall include structural calculations and supporting documentation necessary to completely describe and document the means, methods, crane positioning and movement, means of access, pick points, temporary support positions, and loads necessary to safely erect the beams.
- 2. The erection plans and procedures shall be submitted to the Engineer for review and acceptance prior to starting the work. Review, acceptance and/or comments by the Engineer shall not be construed to guarantee the safety or final acceptability of the work or compliance with all applicable specifications, codes, or contract requirements, and shall neither relieve the Contractor of the responsibility and liability to comply with these requirements, nor create liability for the Village of Northbrook.

TOTAL BILL OF MATERIAL

ITEM NO.	CODE NO.	ITEM	UNIT	TOTAL
1	28100107	Stone Riprap, Class A4	Sq. Yd.	401
2	28200200	Filter Fabric	Sq. Yd.	401
3	42001300	Protective Coat	Sq. Yd.	193
4	44000500	Combination Curb and Gutter Removal	Foot	83
5	<i>50101500</i>	Removal of Existing Superstructure	Each	1
6	50102400	Concrete Removal	Cu. Yd.	50.7
7	50104000	Bridge Rail Removal	Foot	176
8	<i>50201101</i>	Cofferdam (Type 1) (Location-1)	Each	2
9		Concrete Structures	Cu. Yd.	28.0
10		Concrete Superstructure	Cu. Yd.	48.4
11		Concrete Superstructure (Approach Slab)	Cu. Yd.	75.2
12		Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	2,640
13		Reinforcement Bars, Epoxy Coated	Pound	22,590
14	······	Mechanical Splicers	Each	1,176
. <i>1</i> 5		Name Plates	Each	1
16		Concrete Sealer	Sq. Ft.	442
17		Epoxy Crack Injection	Foot	11 .
18	***************************************	Paving Brick Sidewalk	Sq. Yd.	240
19		Remove and Re-Erect Existing Bridge Rail	Foot	162
20		Standard Brick Veneer	Sq. Ft.	484
21		Brick Sidewalk Removal	Sq. Ft.	<i>2,1</i> 55
22		Geotechnical Fabric, Special	Sq. Yd.	240
23		Channel Excavation (Special)	Cu. Yd.	793
24		Concrete Bridge Rail (Special)	Foot	176
25		Approach Slab Removal	Sq. Yd.	288
26		Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	<i>1</i> 57
27		Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	Sq. Yd.	<i>1</i> 57
28		Cleaning Bridge Seats	Sq. Ft.	442
29	<i>20012754</i>	Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	34
30		Ultra-High Performance Concrete (UHPC) Joints	Cu. Ft.	<i>153</i>

LIST OF DRAWINGS

- S-1 General Plan & Elevation
- S-2 General Notes & Summary of Quantities
 S-3 Removal Details
- S-3 Removal Details
- S-4 Proposed Deck Details
- S-5 21" x 48" PPC Deck Beam Details Part 1
- S-6 21" x 48" PPC Deck Beam Details Part 2
- S-7 Sidewalk and Parapet Details
- S-8 South Approach Slab
- S-9 North Approach Slab
- S-10 Approach Slab Details S-11 Sidewalk on Grade Details
- S-12 South Abutment Repairs
- S-13 North Abutment Repairs
- S-14 Existing Bridge Rail Details-1
- S-15 Existing Bridge Rail Details-2

S-16 Existing Bridge Rail Details-3

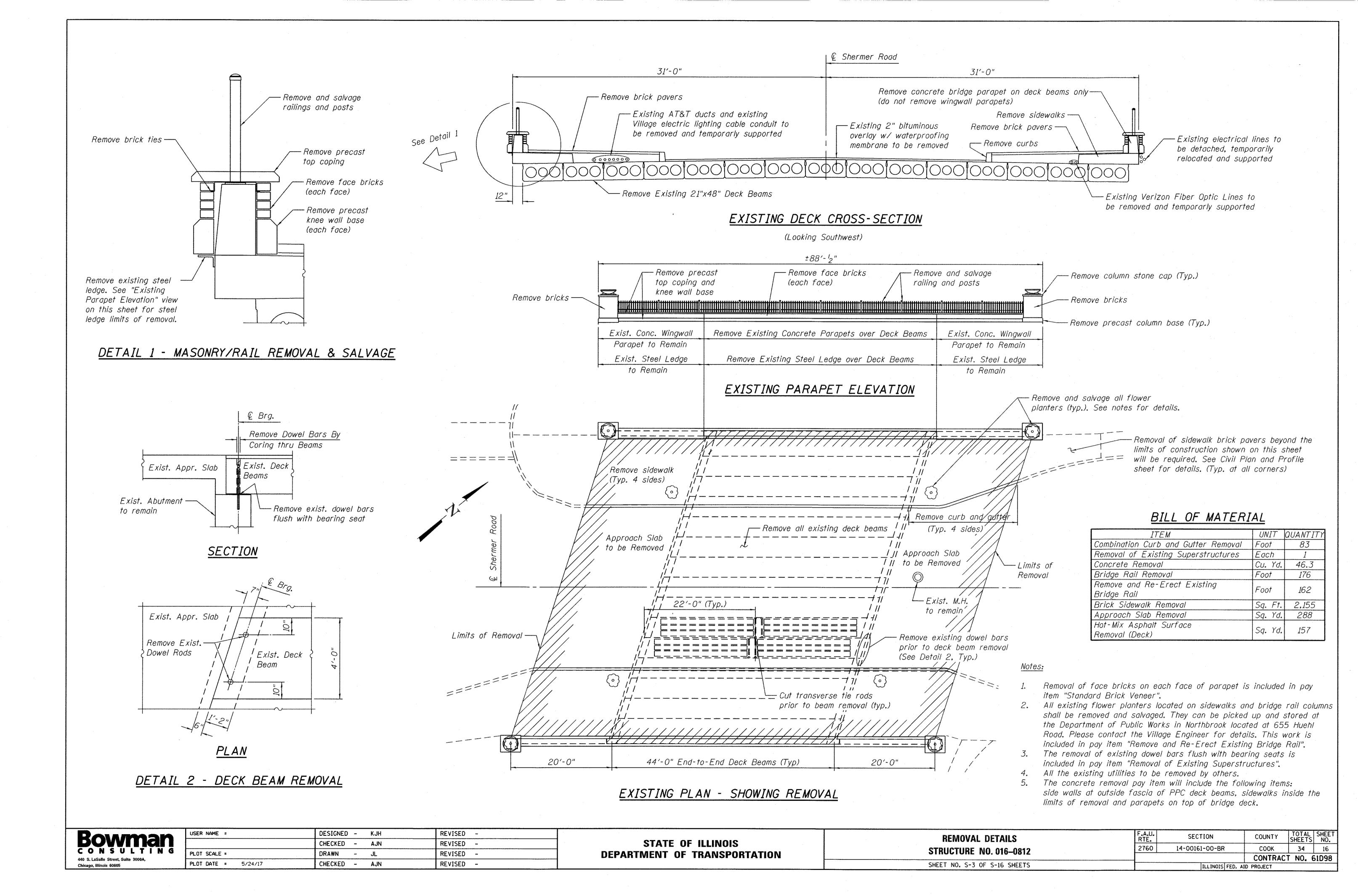
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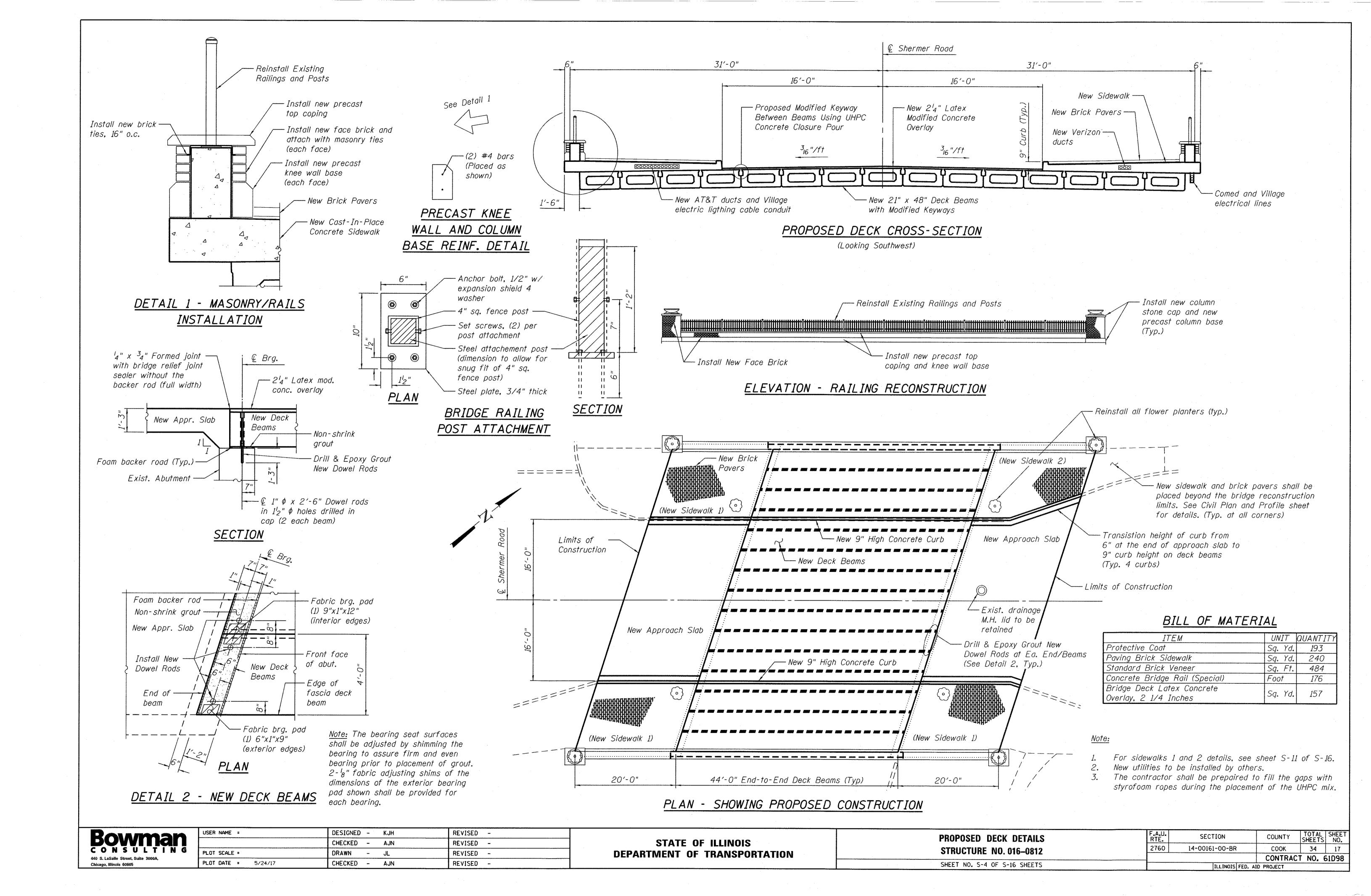
	1 1		A 81 4 7	,,
	abut.	abutment	NW	north west
	B.F.	back face	no.	number
	B	baseline	0.F.	outside face
	brg.	bearing	PJF	preformed joint filler
	$ ot\!$	centerline	PJS	preformed joint sealer
	Cl.	clearance	PG	profile grade
	conc.	concrete	prop.	proposed
٠	const.	construction	req'd	required
	ϕ	diameter	rte.	route
	E.	expansion bearings	SB	south bound
	EA	east abutment	SE	south east
	EB	east bound	SW	south west
	E.F.	each face	sect.	section
	elev.	elevation	spa.	spaces
	exist.	existing	spec.	specification
	F.	fixed bearings	sta.	station
	F.F.	front face	std.	standard
	I.F.	inside face	struct.	structure
	jt.	joint	typ.	typical
	long.	longitudinal	UNO	unless noted otherwise
	max.	maximum	WA	west abutment
	min.	minimum	WB	west bound
	NB	north bound	WW	wingwall
	NE	north east		-

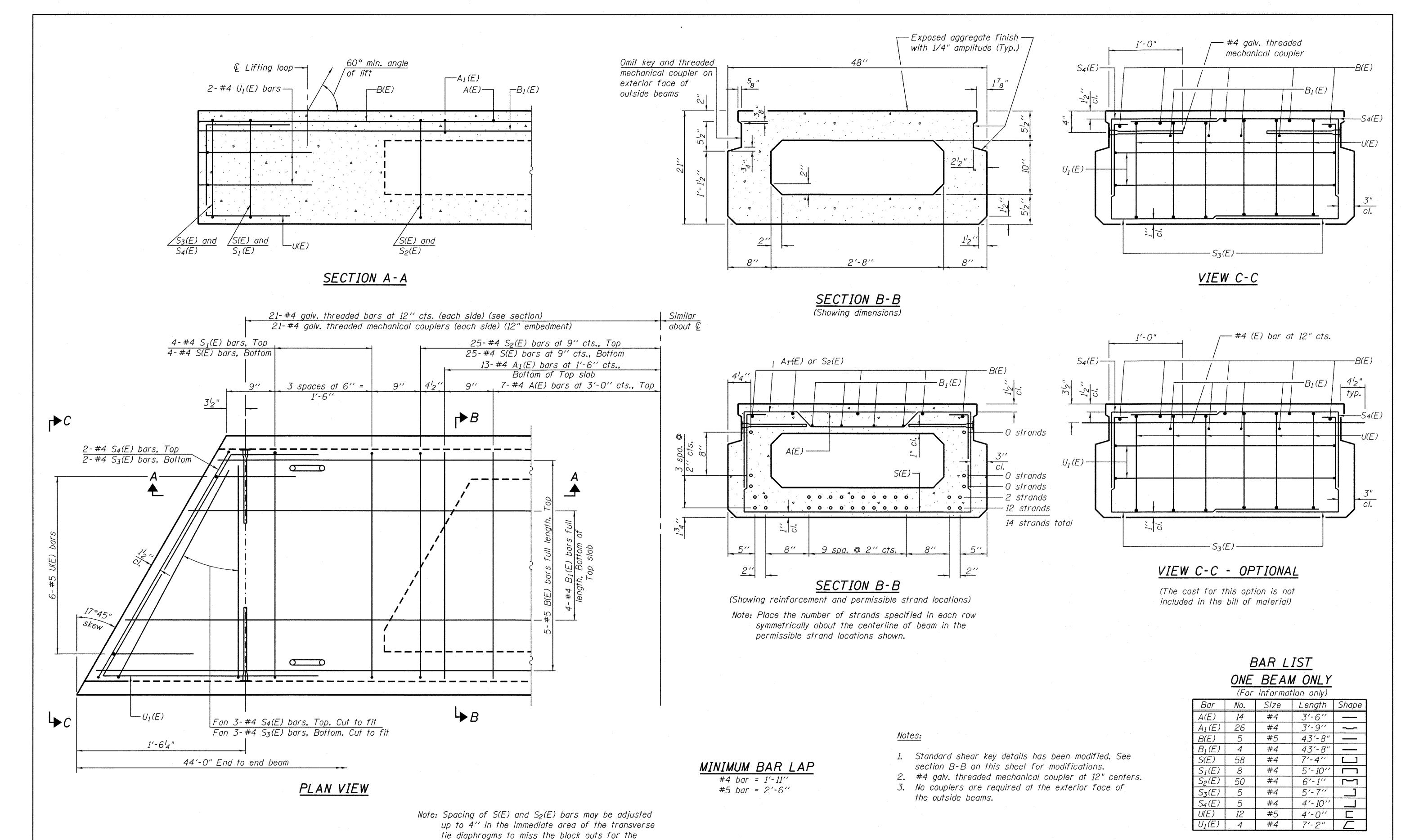
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	CHECKED - AJN	REVISED -	
PLOT SCALE =	DRAWN - JL	REVISED -	
PLOT DATE = 5/24/17	CHECKED - AJN	REVISED -	

GENERAL	NOTES 8	k SU	MMAR	OF	QUANTITIES			
STRUCTURE NO. 016-0812								
	SHEET NO	S-2	OF S-16	SHEET	ς			

	ILLINOIS FED.	AID PROJECT		
		CONTRACT	NO.	61D'
760	14-00161-00-BR	СООК	34	1
.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHI N







Note: See sheet S-6 of S-16 for additional details and Bill of Material.

Boyman consulting
440 S. LaSaile Street, Suite 3000A,
Chicago, Illinois 60605

USER NAME =	DESIGNED - KJH	REVISED -
	CHECKED - AJN	REVISED -
PLOT SCALE =	DRAWN - JL	REVISED -
PLOT DATE = 5/24/17	CHECKED - AJN	REVISED -

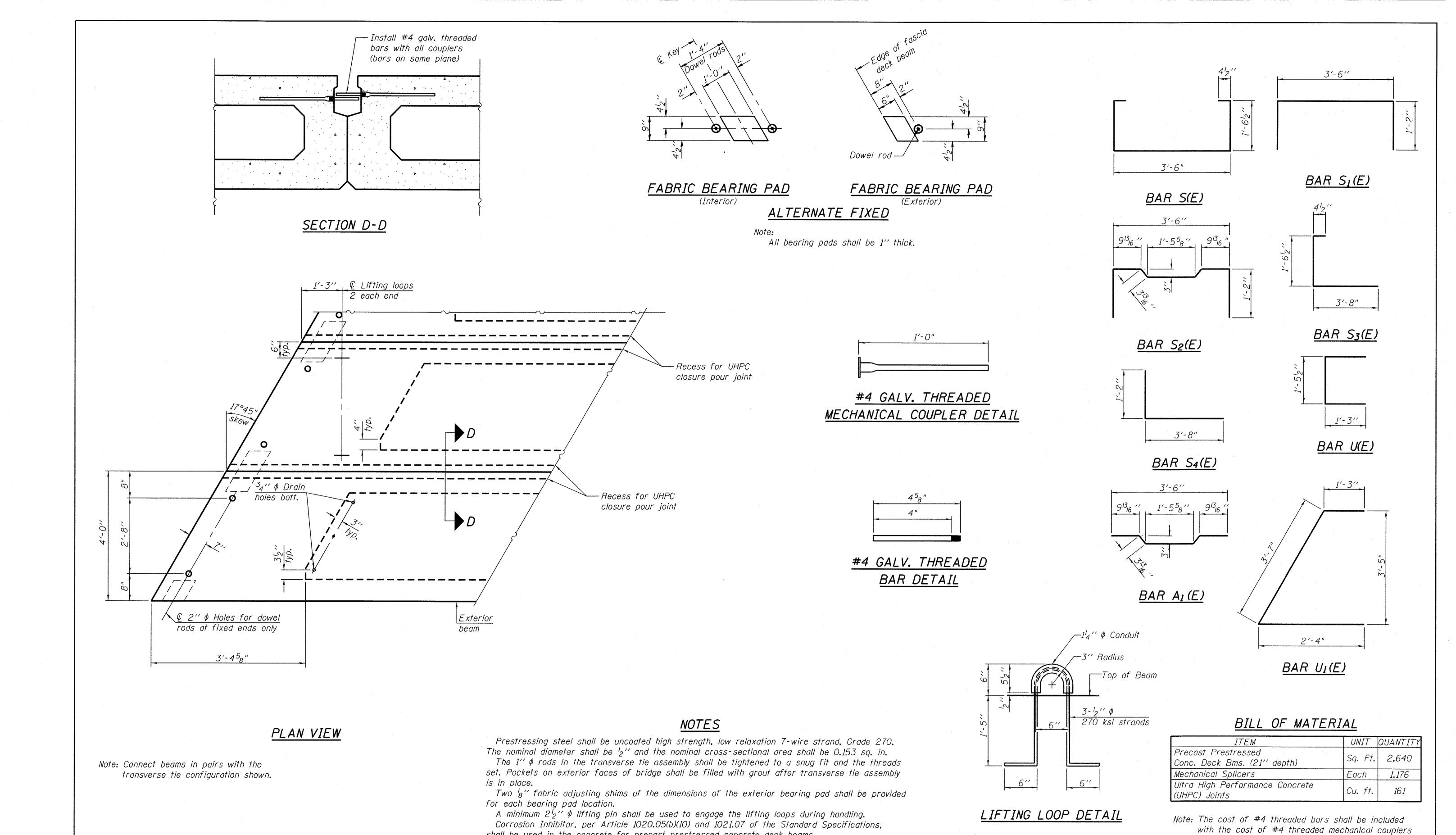
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 48" PPC DECK BEAM DETAILS - PART 1
STRUCTURE NO. 016-0812

SHEET NO. S-5 OF S-16 SHEETS

RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
2760	14-00161-00-BR		COOK	34	18
			CONTRAC	T NO.	51D98
	ILLINOIS	FED. AID	PROJECT		



Bowman Chicago, Illinois 60605

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

shall be used in the concrete for precast prestressed concrete deck beams.

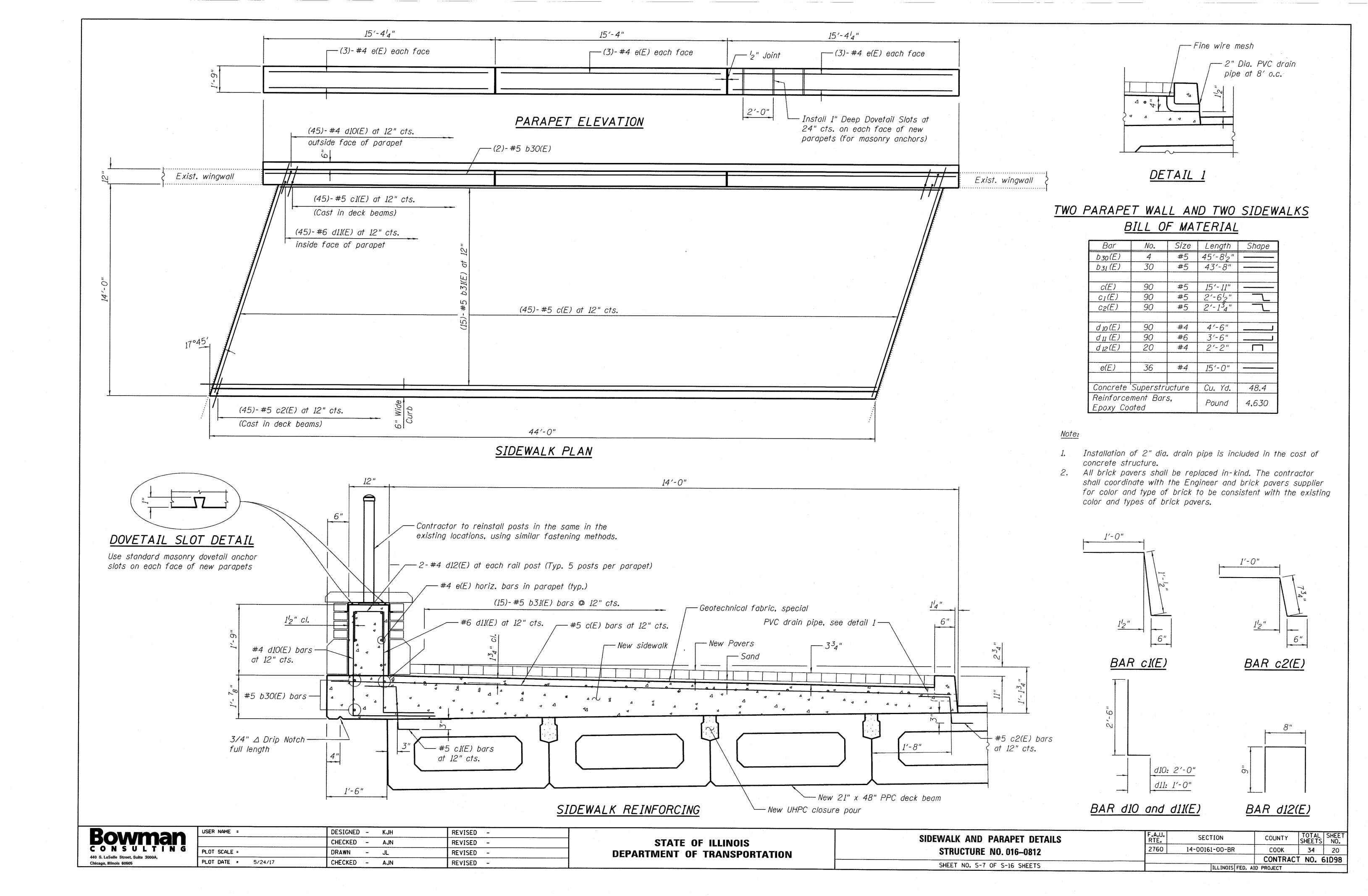
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

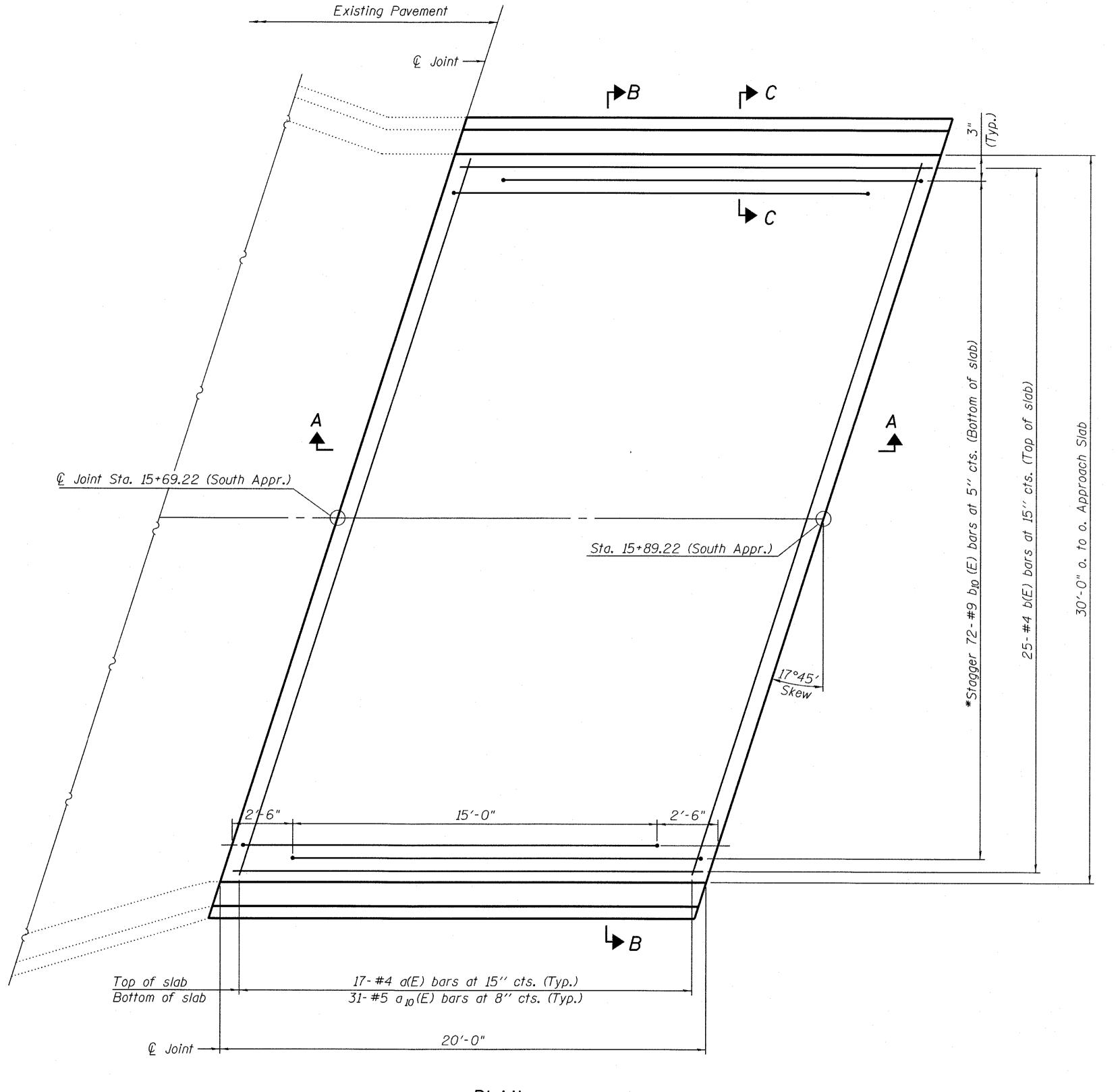
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

21" x 48" PPC DECK BEAM DETAILS - PART 2 **STRUCTURE NO. 016–0812** SHEET NO. S-6 OF S-16 SHEETS

COUNTY TOTAL SHEET SHEETS NO. SECTION 34 19 2760 14-00161-00-BR COOK CONTRACT NO. 61D98 ILLINOIS FED. AID PROJECT

shown in section D-D.





<u>PLAN</u>

* Tilt #9 b_{10} (E) bars as required to maintain clearance.

USER NAME =	DESIGNED - KJH	REVISED -	
	CHECKED - AJN	REVISED -	
PLOT SCALE =	DRAWN - JL	REVISED -	
PLOT DATE = 5/24/17	CHECKED - AJN	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

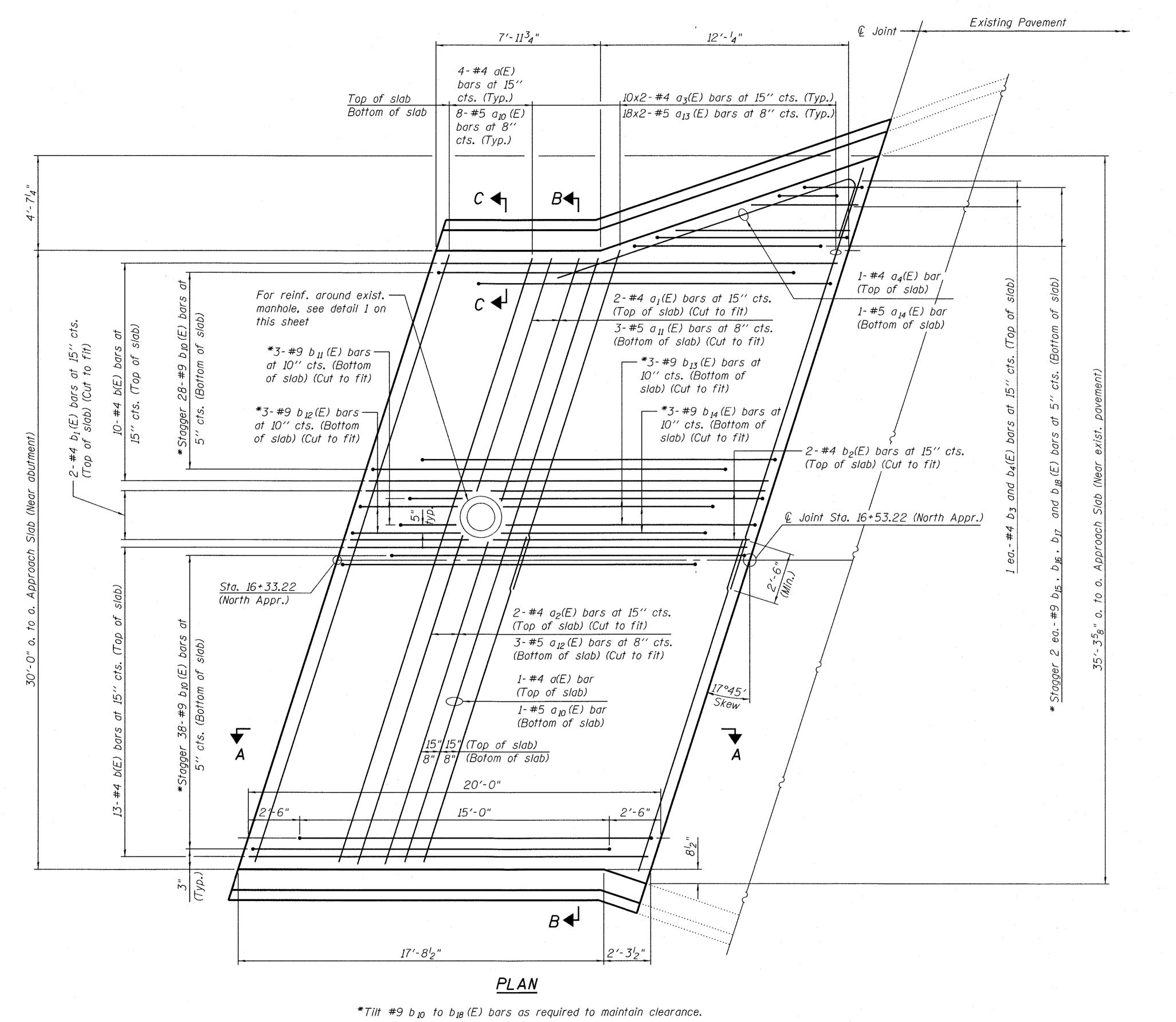
SOUTH APPROACH SLAB **STRUCTURE NO. 016–0812** SHEET NO. S-8 OF S-16 SHEETS

COUNTY TOTAL SHEET NO.

COOK 34 21 SECTION 14-00161-00-BR CONTRACT NO. 61D98 ILLINOIS FED. AID PROJECT

See sheet S-10 of S-16 for Sections A-A, B-B and C-C. a(E) and a₁o(E) bar spacings measured along € Rdwy.

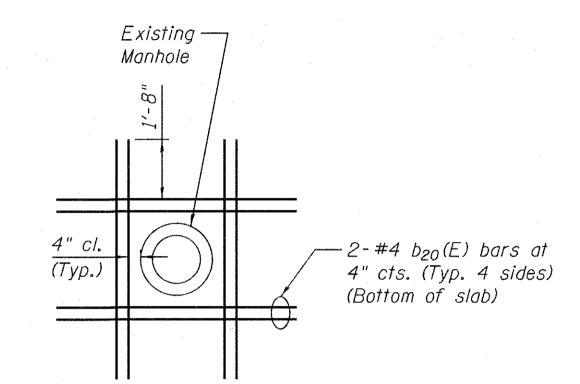
The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be $I_2^{\prime\prime\prime}$ for installation purposes.



Note

See sheet S-10 of S-16 for Sections A-A, B-B and C-C.

Any bars cut in field must be epoxy coated at cut ends.



<u>DETAIL 1 - Reinforcement</u> <u>Around Existing Manhole</u>

Not

1. Any bars cut must be epoxy coated at cut ends.

Boyman Consulting 440 S. LaSalle Street, Suite 3000A, Chicago, Illinois 60605

	USER NAME =	DESIGNED - KJH	REVISED -
		CHECKED - AJN	REVISED -
I	PLOT SCALE =	DRAWN - JL	REVISED -
I	PLOT DATE = 5/24/17	CHECKED - AJN	REVISED -

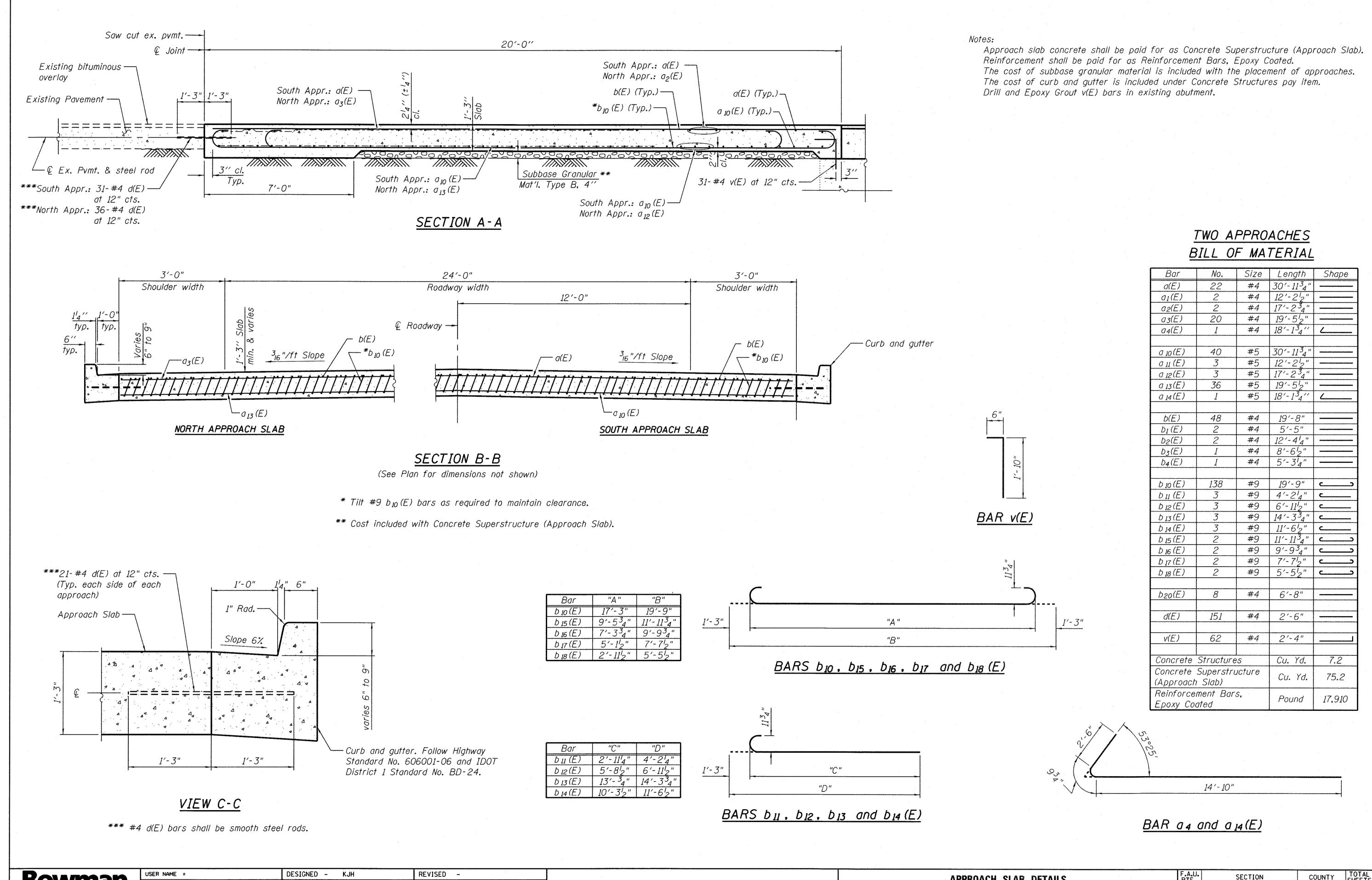
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH APPROACH SLAB
STRUCTURE NO. 016-0812
SHEET NO. S-9 OF S-16 SHEETS

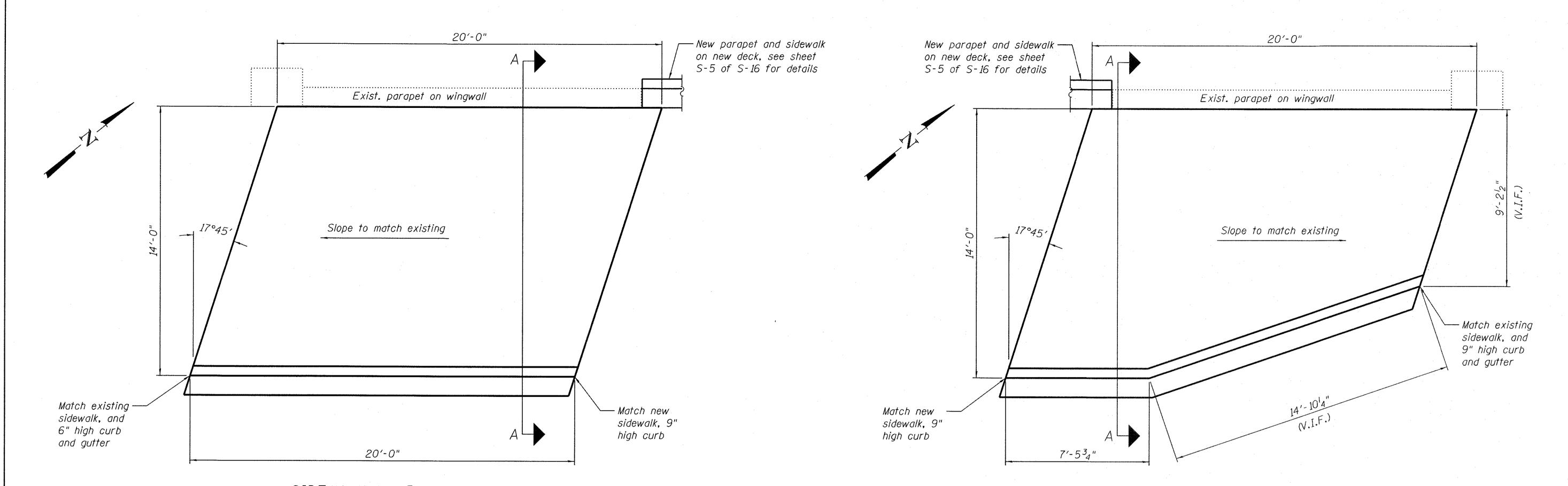
SECTION COUNTY TOTAL SHEET NO. 2760 14-00161-00-BR COOK 34 22

CONTRACT NO. 61D98

ILLINOIS FED. AID PROJECT

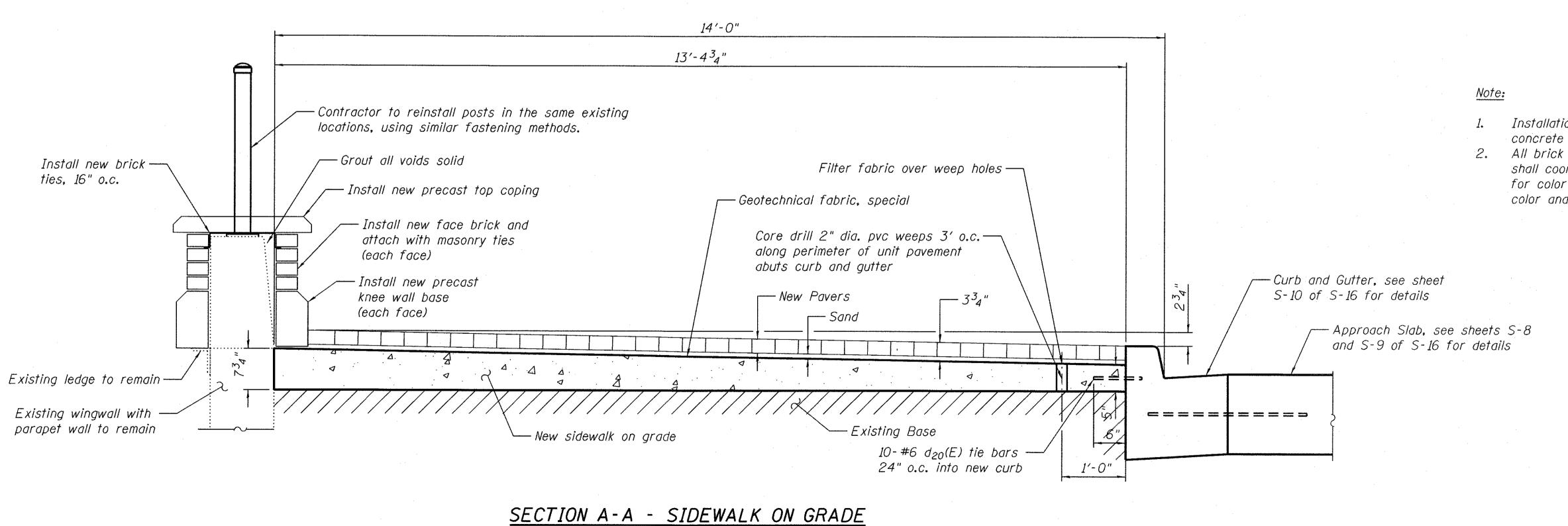


Bowman TOTAL SHEET SHEETS NO. SECTION COUNTY APPROACH SLAB DETAILS STATE OF ILLINOIS CHECKED - AJN REVISED 34 23 2760 14-00161-00-BR COOK **STRUCTURE NO. 016–0812** PLOT SCALE = **DEPARTMENT OF TRANSPORTATION** DRAWN REVISED - JL CONTRACT NO. 61D98 PLOT DATE = 5/24/17 REVISED CHECKED - AJN SHEET NO. S-10 OF S-16 SHEETS ILLINOIS FED. AID PROJECT Chicago, Illinois 60605



SIDEWALK 1 - PLAN

SIDEWALK 2 - PLAN



- 1. Installation of 2" dia. drain pipe is included in the cost of concrete structure.
- 2. All brick pavers shall be replaced in-kind. The contractor shall coordinate with the Engineer and brick pavers supplier for color and type of brick to be consistent with the existing color and types of brick pavers.

FOUR SIDEWALKS ON GRADE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d20(E)	40	#6	9"	
Concrete	Structure.	5	Cu. Yd.	20.8
Reinforce Epoxy Co		Pound	50	

B			V	V	1	η	ć	1	7
C	o`			U			Ĭ	N	G
440 S	. La	Salle	Stree	rt, Sui	te 30	00A,			
Chicag	io, l	llinois	606	05					

USER NAME =	DESIGNED - KJH	REVISED -
	CHECKED - AJN	RÉVISED -
PLOT SCALE =	DRAWN - JL	REVISED -
PLOT DATE = 5/24/17	CHECKED - AJN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

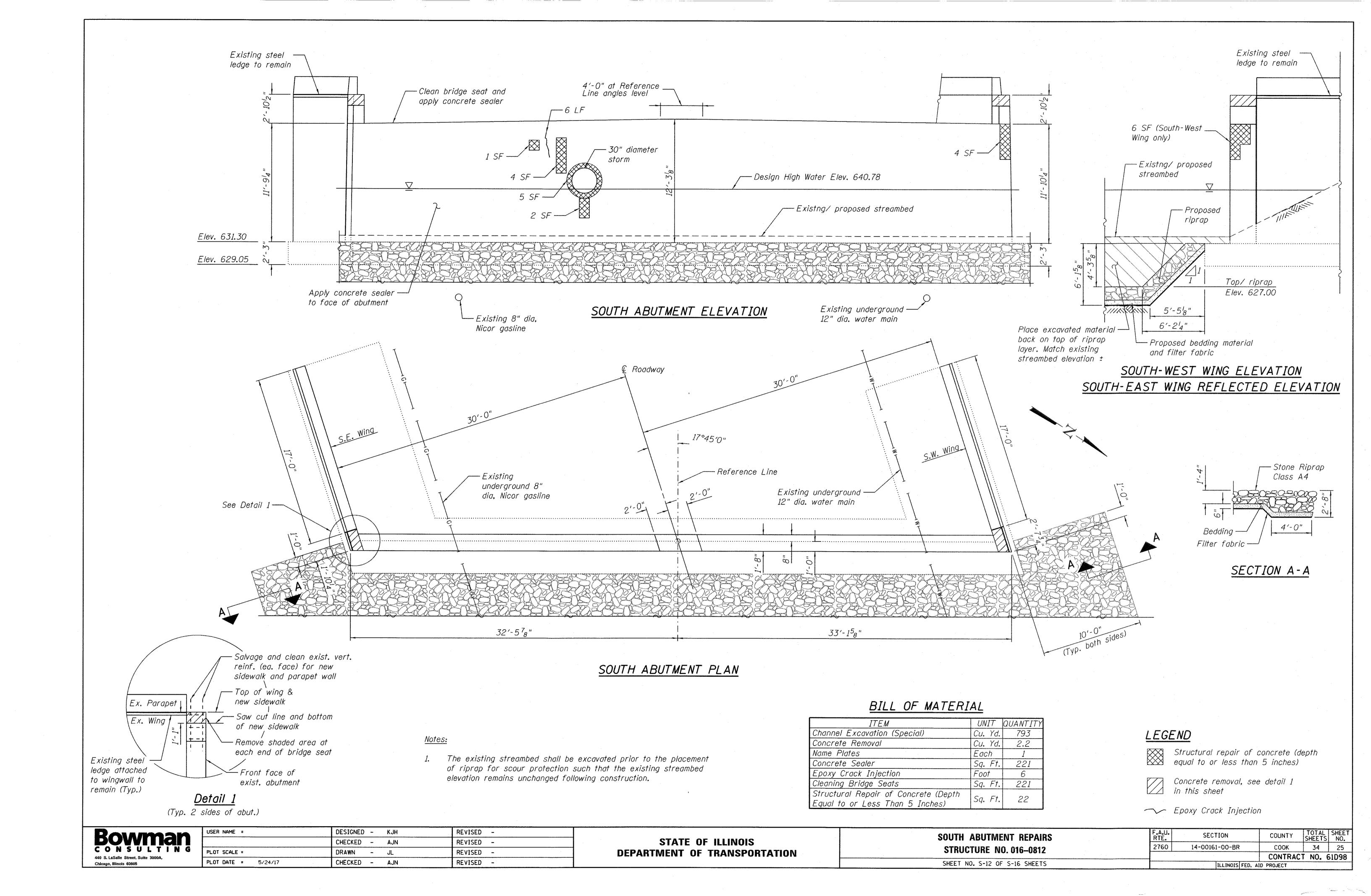
IDEWALK ON	GRADE DETAILS	
STRUCTURE	NO. 016-0812	
SHEET NO. S-11	OF S-16 SHEETS	

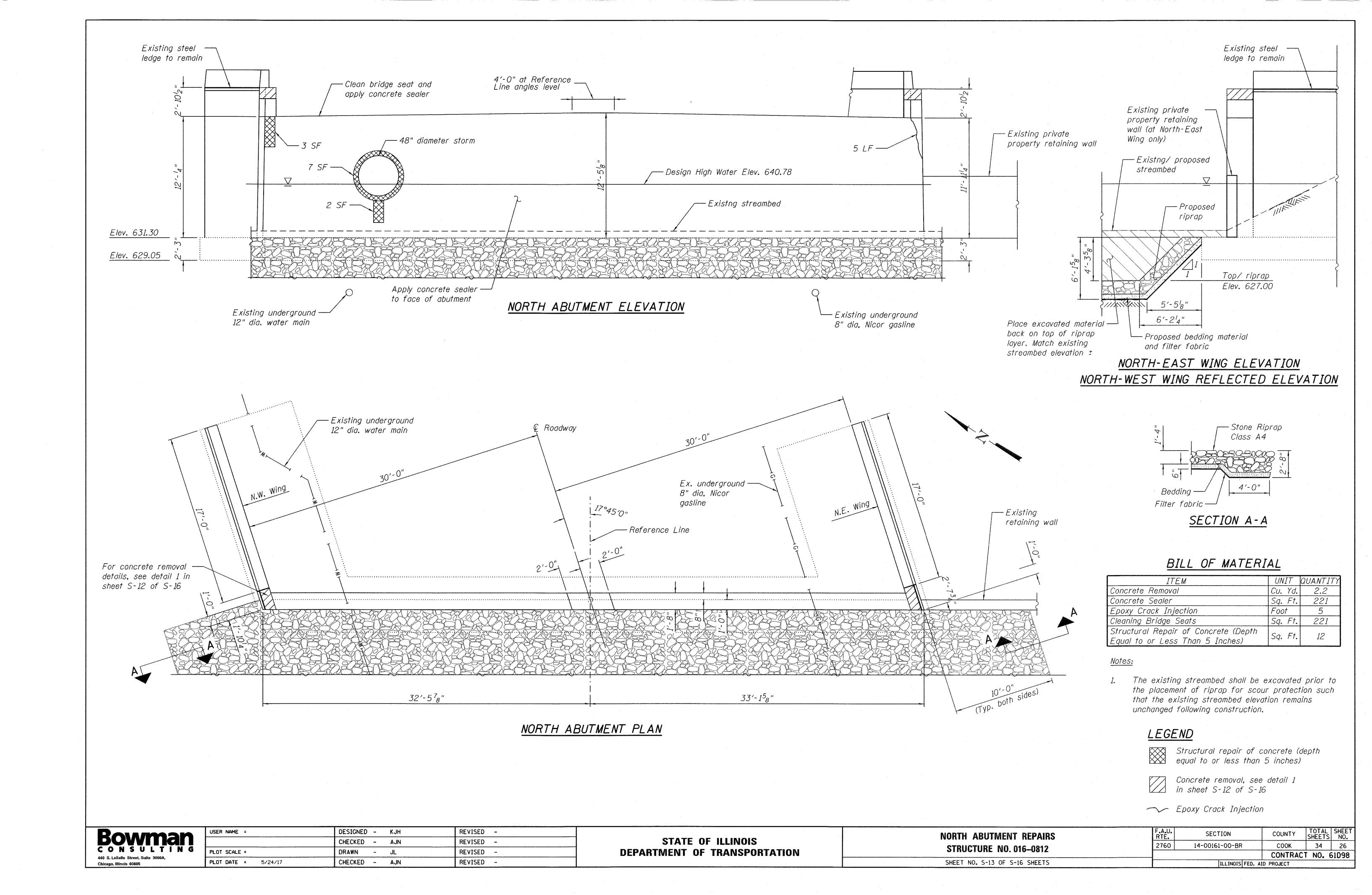
RTE.	SECTION	
2760	14-00161-00-BR	

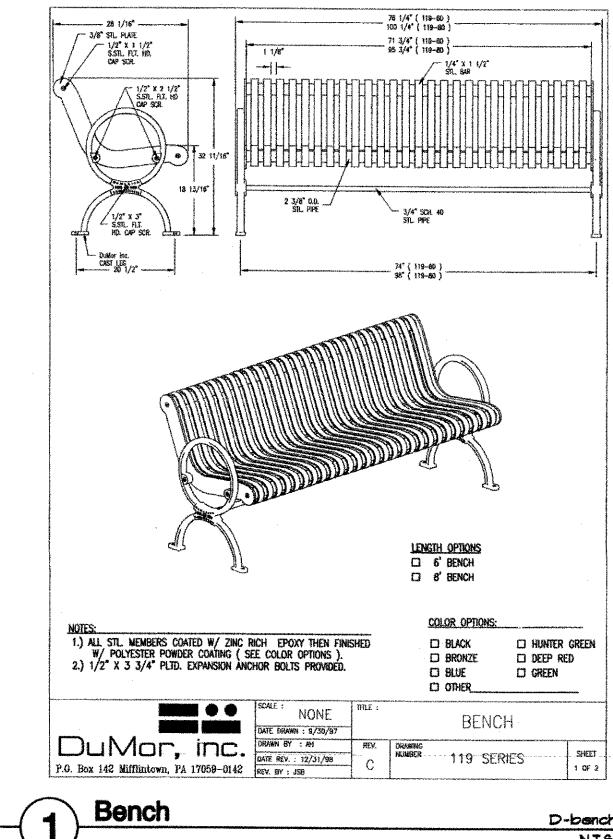
CTION COUNTY TOTAL SHEET NO. 61-00-BR COOK 34 24

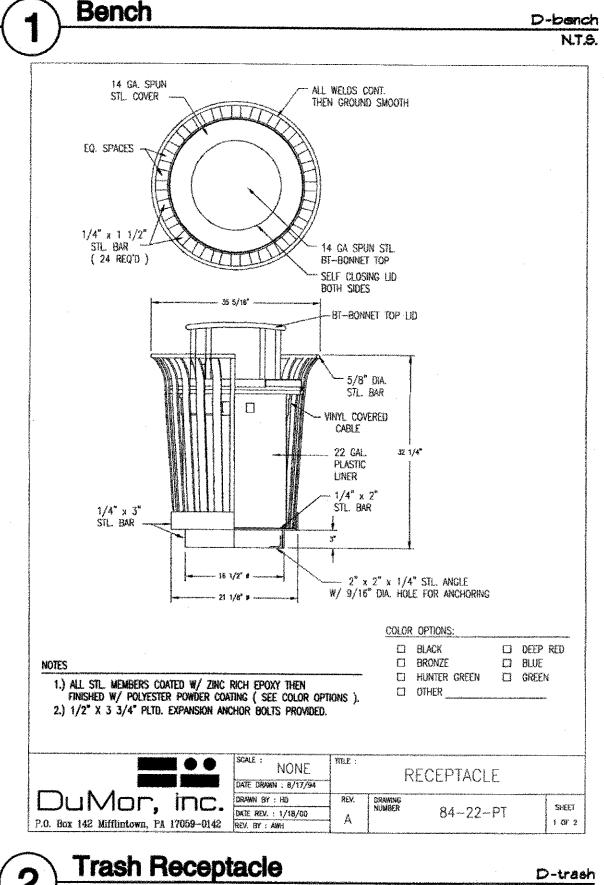
CONTRACT NO. 61D98

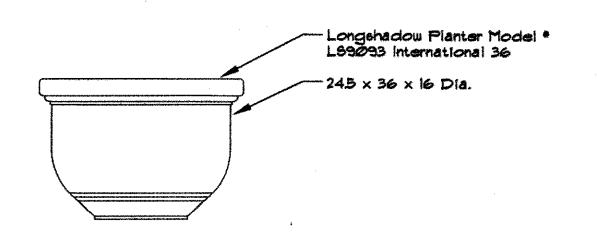
ILLINOIS FED. AID PROJECT



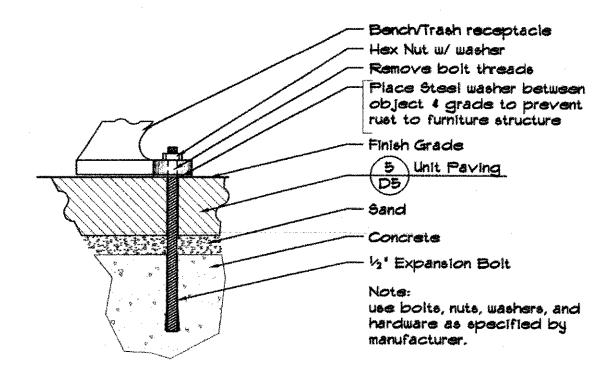




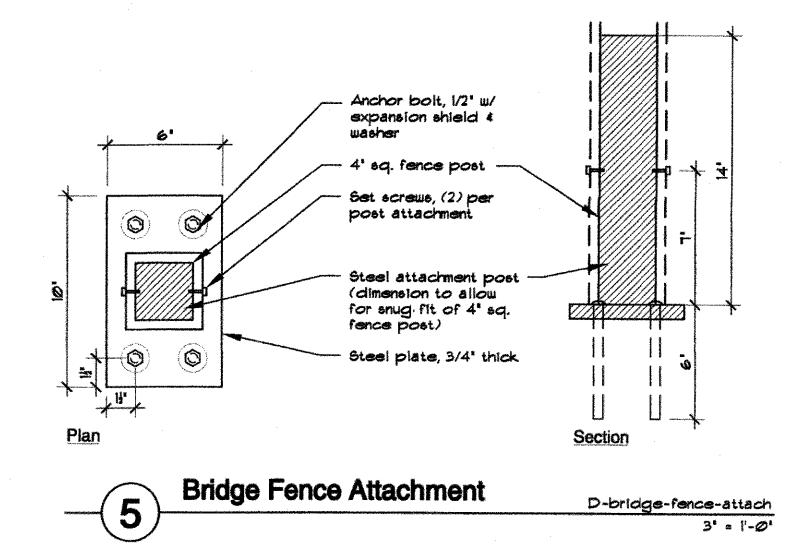




Movable Planter D-planter Not to Scale



Furniture Mounting Detail D-furn-mount 3' = 1'-0"



Hitchcock Design Group **Creating Better Places** 221 W. Jefferson Avenue Naperville, Illinois 60540 Phone 630.961.1787

NOTE: For Illustrative purposes 5 Bridge Fence D4 Attachment only. Contractor to verify 7'-8 3/4' [2356MM] dimensions and install per FACE TO FACE manufacturer specifications. कुइह Top of unit paving Extended center picket (extened beyond along Cherry Lane to existing bridge deck) core drill coping to recieve picket, use non-shrink grout and caulk POST TOP OPTIONS All poets to have flat top NOM HEIGHT (H) CUSTOM HEIGHT: exept on Meadow end posts which are to be ball 2'-3 5/8' FENCE SECTION ELEVATION METRIC DIMERSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
 SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTURER ONLY.
 FOOTING WIDTH TO BE (4)X POST WIDTH. IMPERIAL FENCE - STYLE B 6-1110S D5-22-95 NOM 8' SECTION LENGTH SOLID STEEL 3/4" PICKETS

1 3/8" [35MM] X 1 1/2" [38MM] U-CHANNEL RAIL

INDUSTRIAL DRIVE RIVET

top.

MONUMENTAL

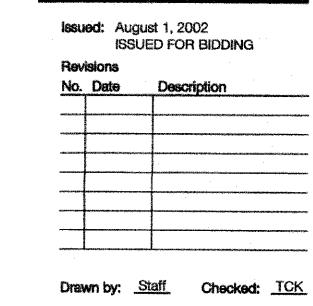
Bridge Fence

Prepared For: Village of Northbrook 1225 Cedar Lane Northbrook, IL 60062 Project: Northbrook Streetscape Segment 2 Streetscape Improvements

D-bridge-fence

Fax 630.961.9925

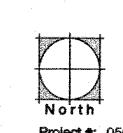
FOR REFERENCE ONLY NOT TO SCALE



Construction

Details

Scale in Feet: As Shown



D4 Project #: 0503-001 20 of 59

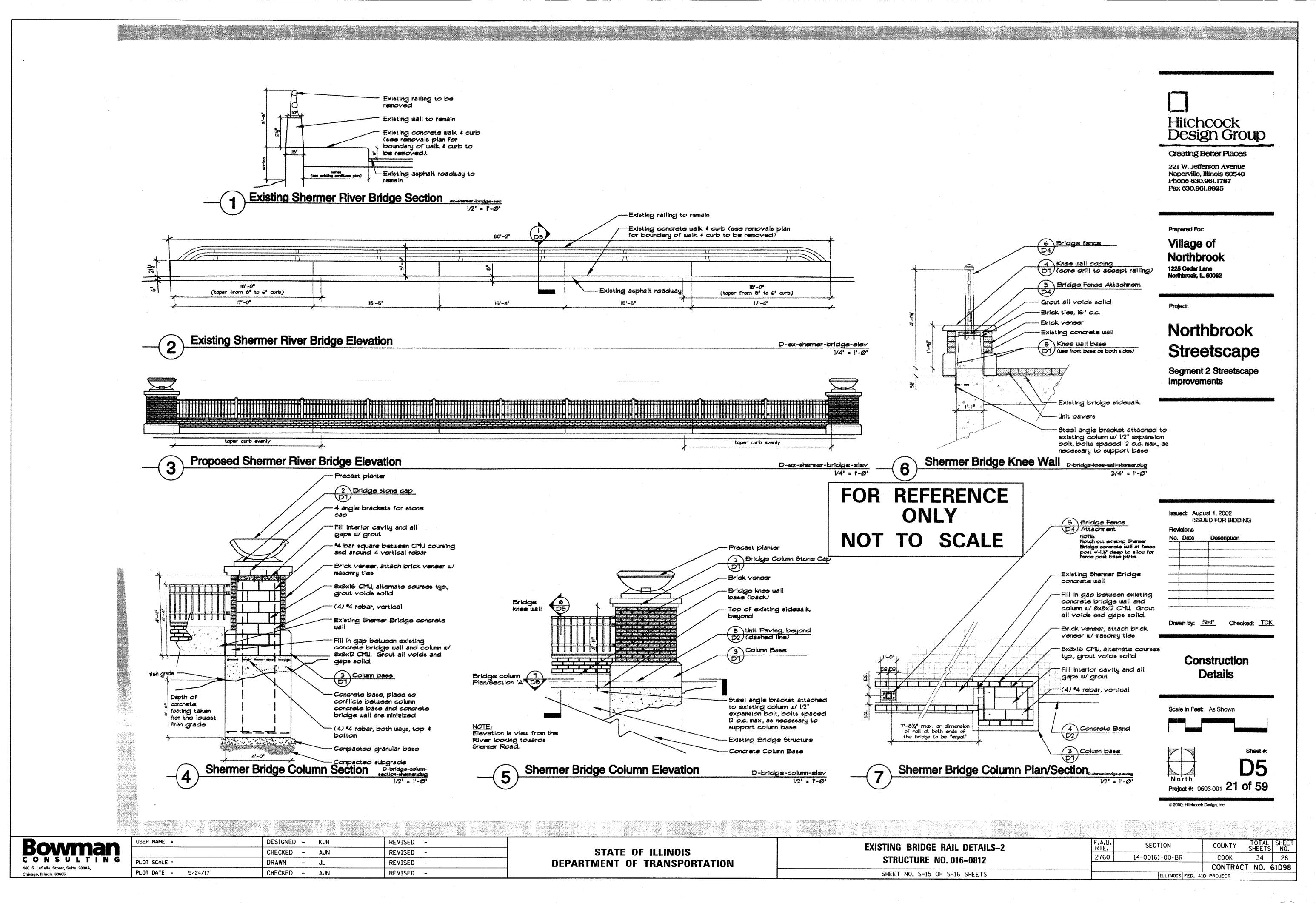
@ 2000, Hitchcock Design, Inc.

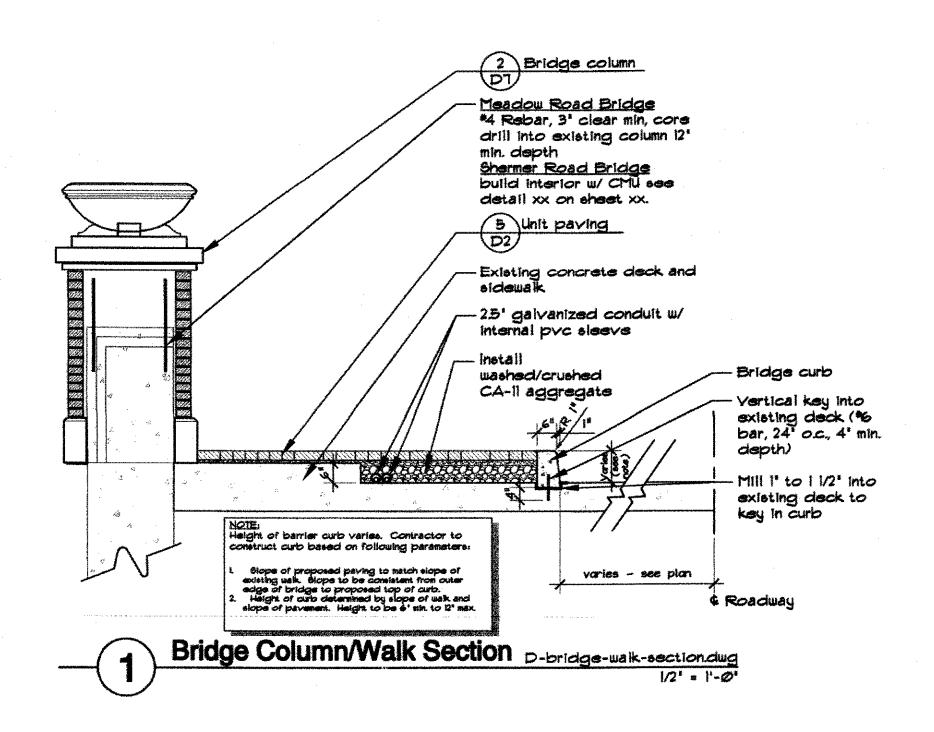
Bowman Chicago, Illinois 60605

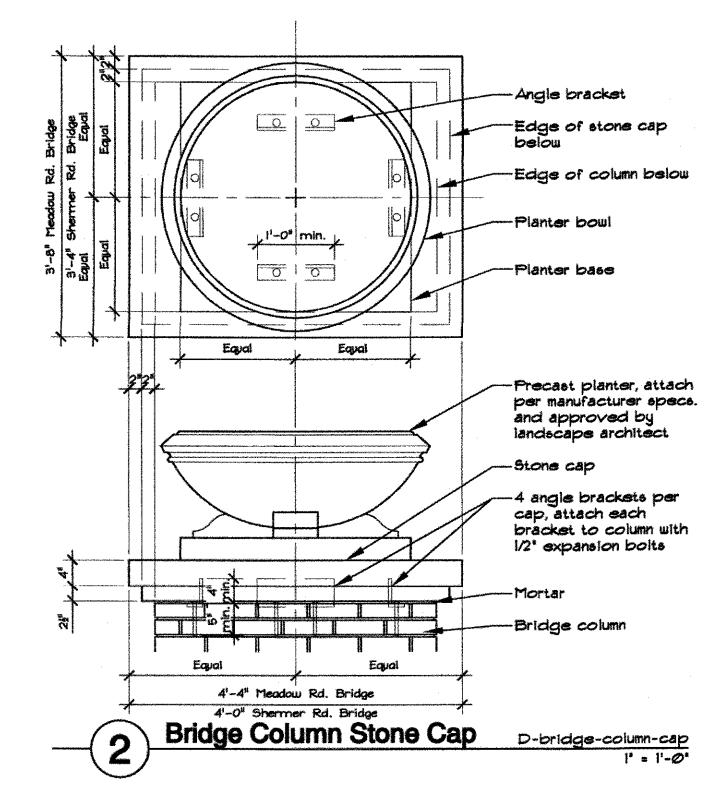
USER NAME =	DESIGNED -	KJH	REVISED -
	CHECKED -	AJN	REVISED -
PLOT SCALE =	DRAWN -	JL	REVISED -
PLOT DATE = 5/24/17	CHECKED -	AJN	REVISED -
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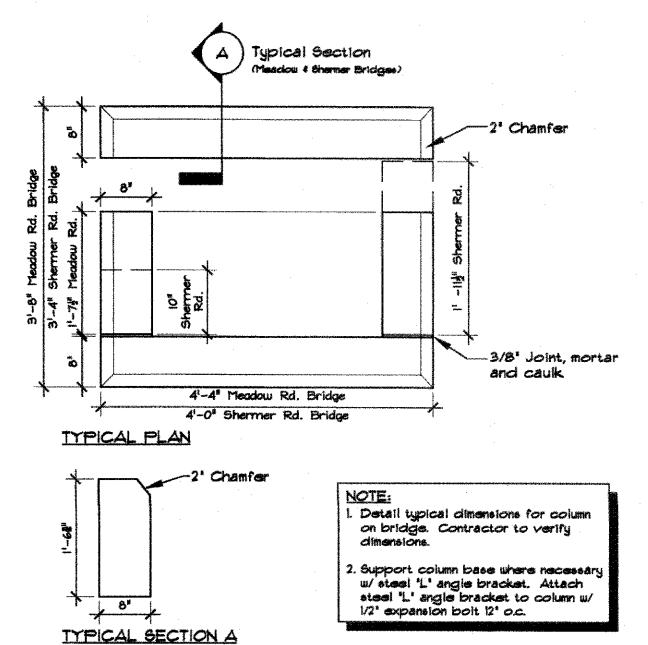
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** **EXISTING BRIDGE RAIL DETAILS-1 STRUCTURE NO. 016-0812** SHEET NO. S-14 OF S-16 SHEETS

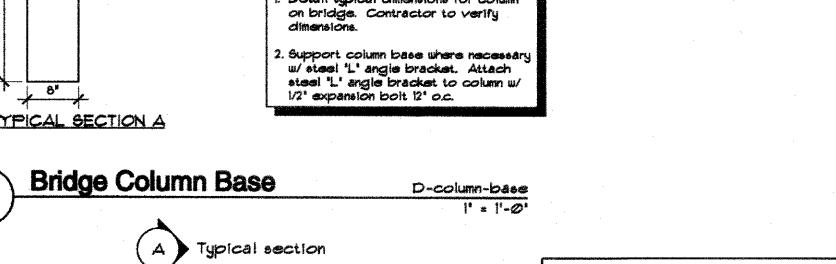
	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE'
	2760	14-00161-00-BR	соок	34	27
_			CONTRAC	T NO. 6	51D98
		ILLINOIS FED. A	ID PROJECT		











NOTE: Length of each section to be equal to 1/2 the spacing for the posts of the decorative

TYPICAL SECTION

(Mesdow Rd. ONLY riverside)

2' Chamfer

*NOTE: Length of each section to be

- 2" Chamfer

Bridge Knee Wall Coping D-knee-Wall-cope

A TYPICAL SECTION

Bridge Knee Wall Base D-knee-wall-base

1'-8# Meadow Rd.

1 2'-2" Shermer Rd.1

TYPICAL SECTION A

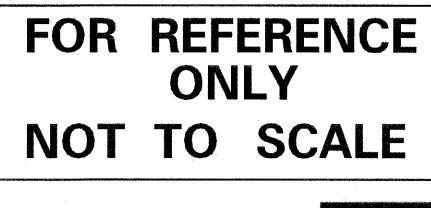
TYPICAL PLAN, (Front & Back)

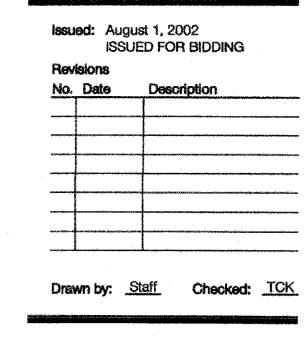
TYPICAL SECTION

(Meadow Rd. street side

- 2' Chamfer

equal to 1/2 the spacing for the posts of the decorative fence.





Hitchcock

Creating Better Places

221 W. Jefferson Avenue Naperville, Illinois 60540

Phone 630.961.1787 Pax 630.961.9925

Prepared For:

Village of

Northbrook

1225 Cedar Lane Northbrook, IL 60062

Northbrook

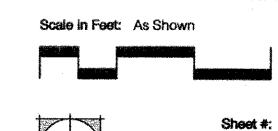
Streetscape

Segment 2 Streetscape

Improvements

Design Group

Construction **Details**





Project #: 0503-001 23 of 59

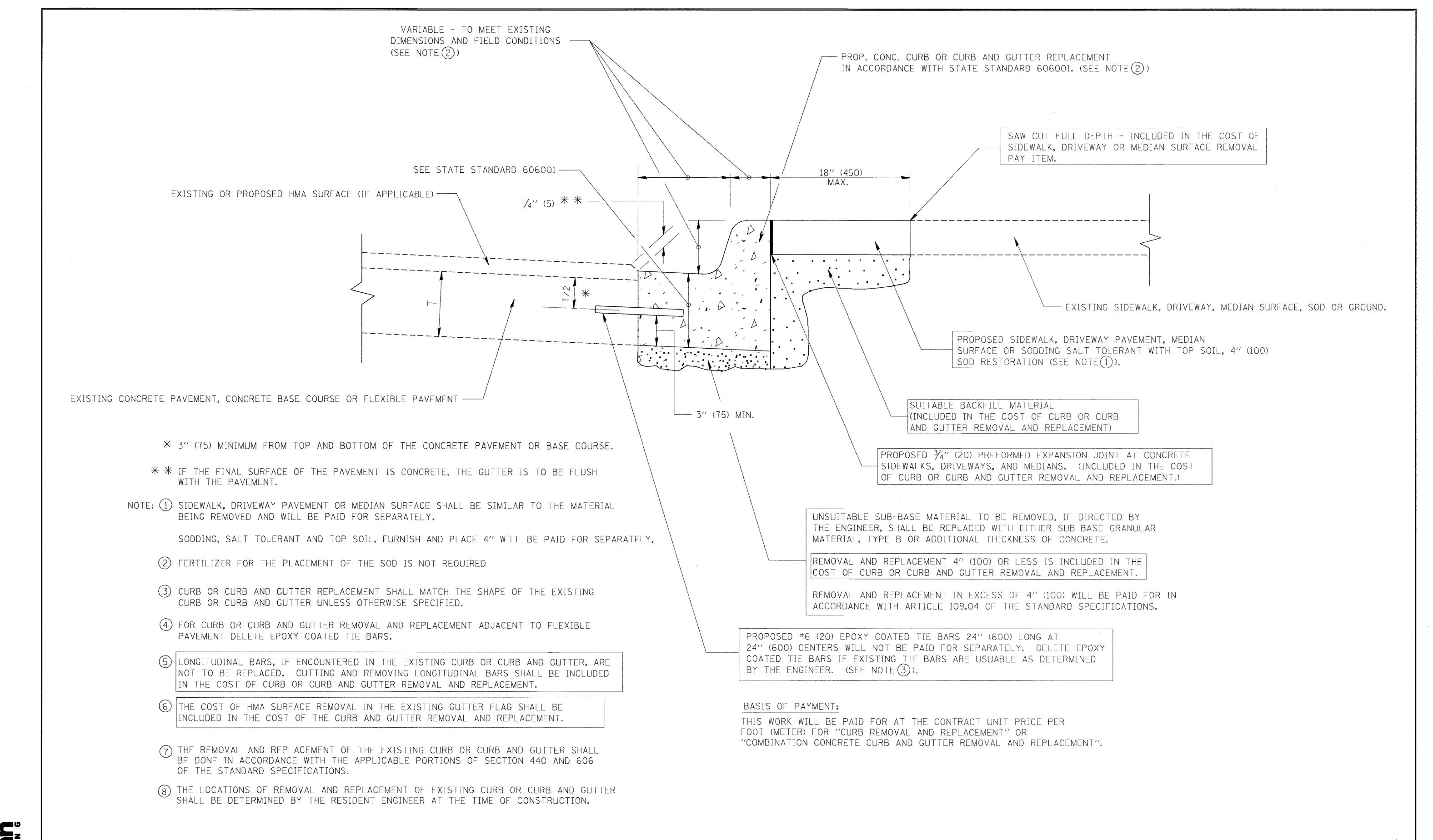
@ 2000, Hitchcock Design, inc.

Bowman 440 S. LaSalle Street, Suite 3000A, Chicago, Illinois 60605

USER NAME =	DESIGNED - KJH	REVISED -	
	CHECKED - AJN	REVISED -	
PLOT SCALE =	DRAWN - JL	REVISED -	
PLOT DATE = 5/24/17	CHECKED - AJN	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** **EXISTING BRIDGE RAIL DETAILS-3 STRUCTURE NO. 016–0812** SHEET NO. S-16 OF S-16 SHEETS

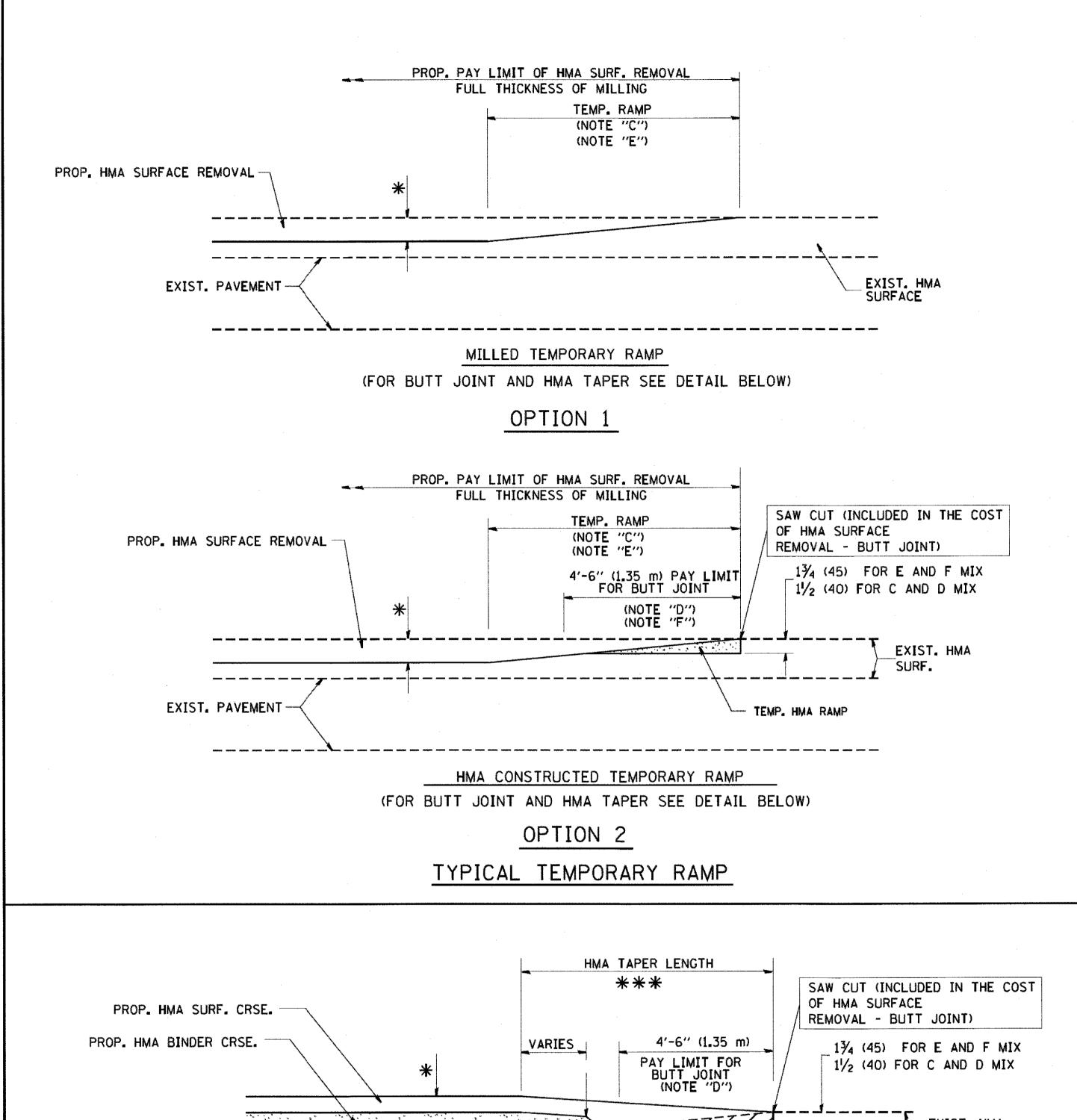
				enetarii (j. 1900) 1900: Santarii (j. 1900) 1900: Santarii (j. 1900)		
	F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE
	2760	0 14-00161-00-BR		СООК	34	29
_				CONTRAC	T NO. 6	51D9
		ILLINOIS	FED. AID	PROJECT		

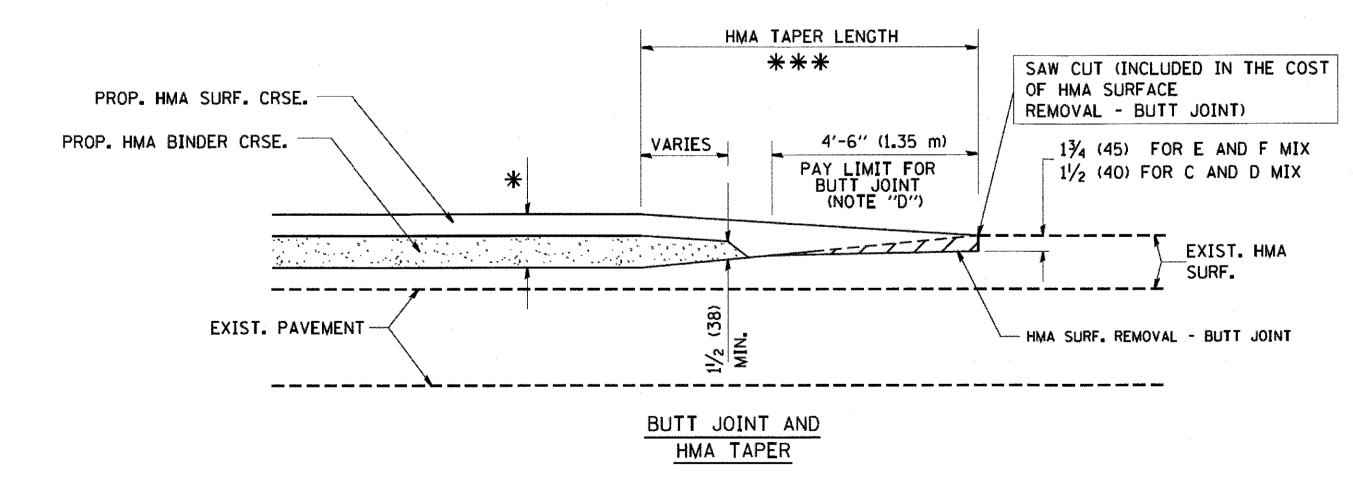


CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

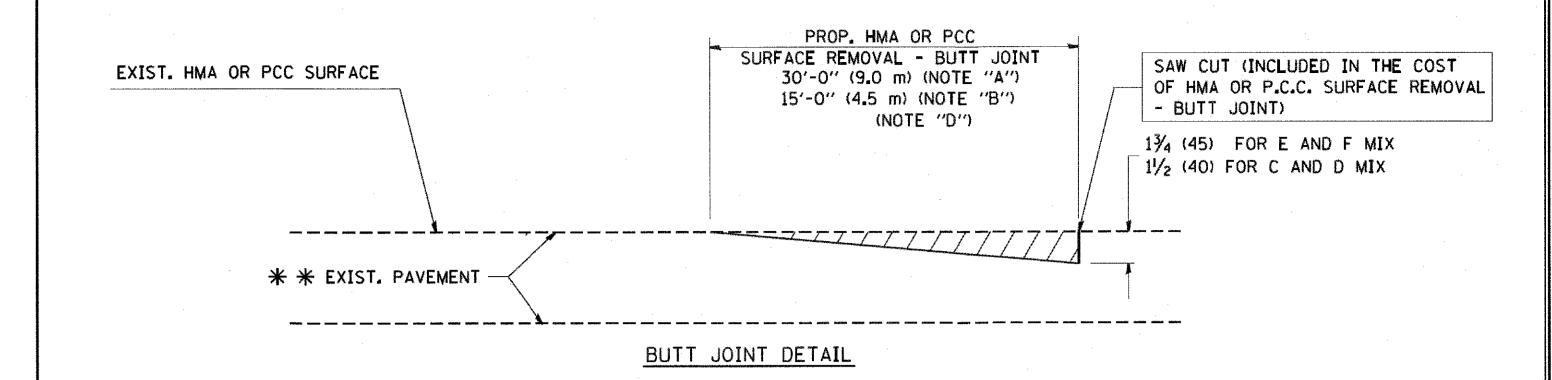
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

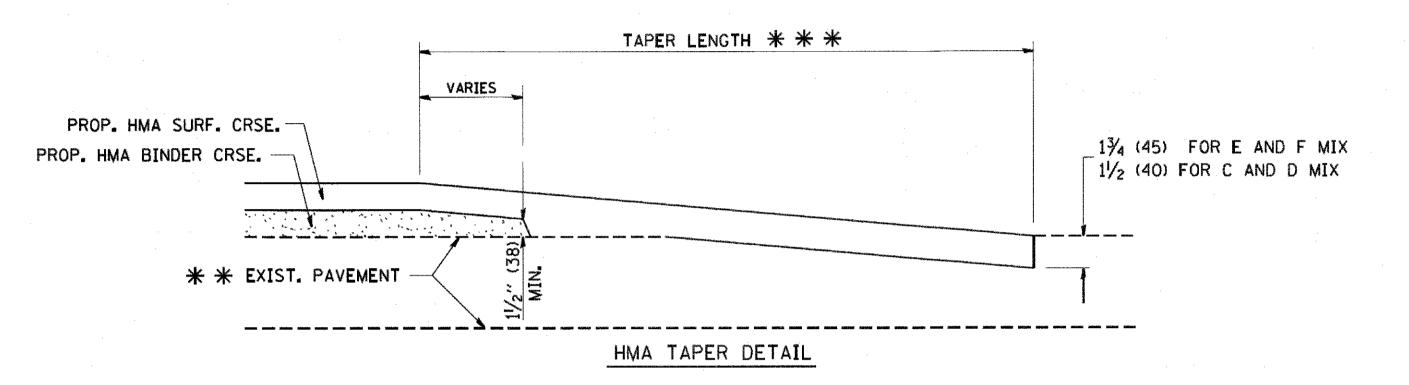
Street 6060	FILE NAME =	USER NAME = jdizenzo	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96		CURB OR CURB AND GUTTER	F.A.U. SECTION	COUNTY TOTAL SHEET
Salle S			DRAWN	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS		2760 14-00161-00-BR	COOK 34 30
S. LaS		PLOT SCALE = 20:0.000001 ':" / 10.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION	REMOVAL AND REPLACEMENT	BD600-06 (BD-24)	CONTRACT NO. 61D98
Chie	16 6 1.	PLOT DATE = 5/24/17	DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.	ILLINOIS FED. A	ID PROJECT





TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B. MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

SHEET 1

- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- ** ** ** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

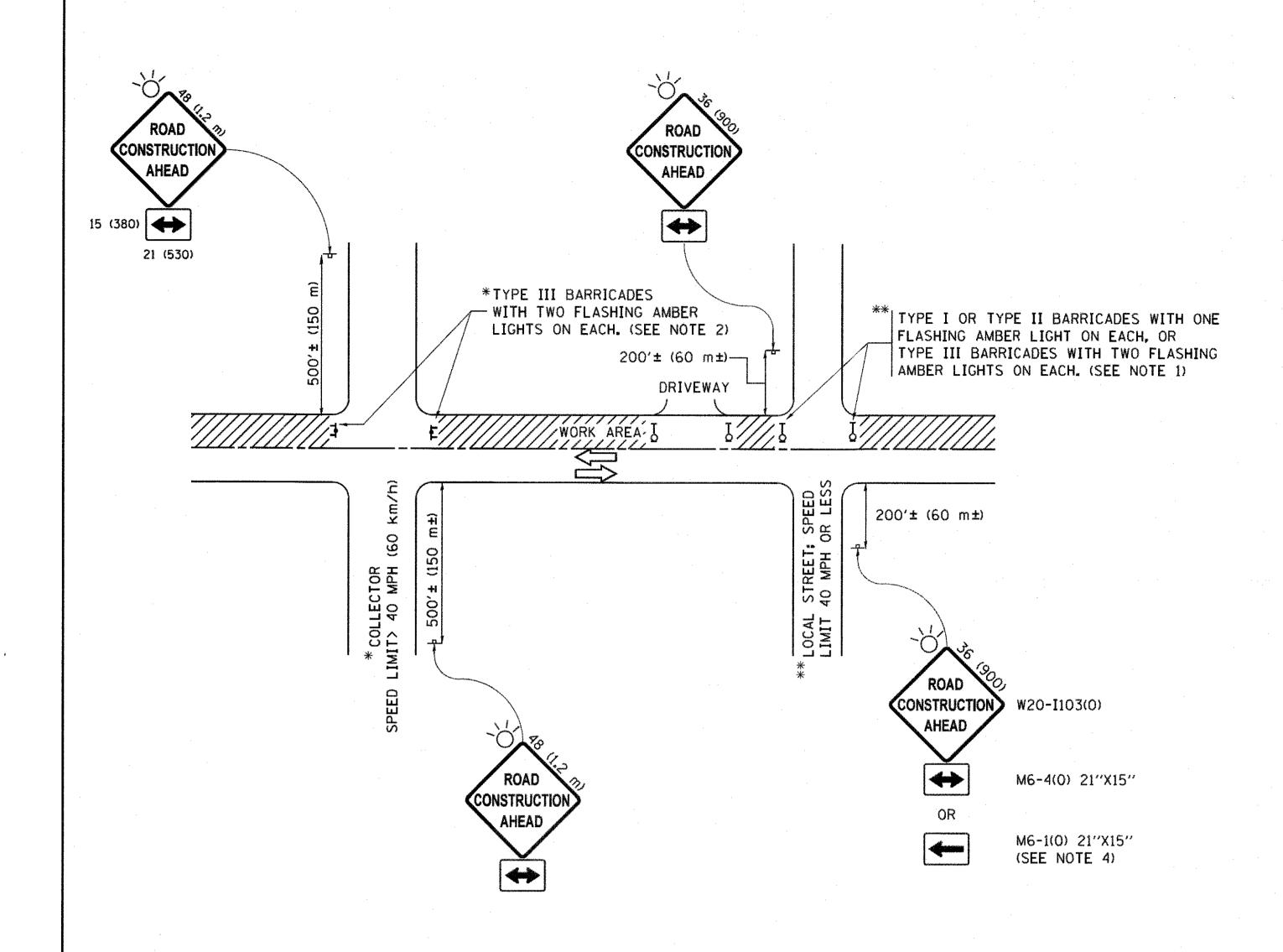
SCALE: NONE

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

FILE NAME =	USER NAME = jdizenzo	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 20:0.000001 ':" / 10.	CHECKED -	REVISED - M. GOMEZ 04-06-01
Default	PLOT DATE = 5/24/17	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		2760	14-00161-00-BR	COOK	34	31		
			BD400-05 (BD-32)	CONTRACT	NO.	61D98		
OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



NOTES:

- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - d) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200" (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - O) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 × 48 (1.2 m × 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500" (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS.
 INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE
 COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

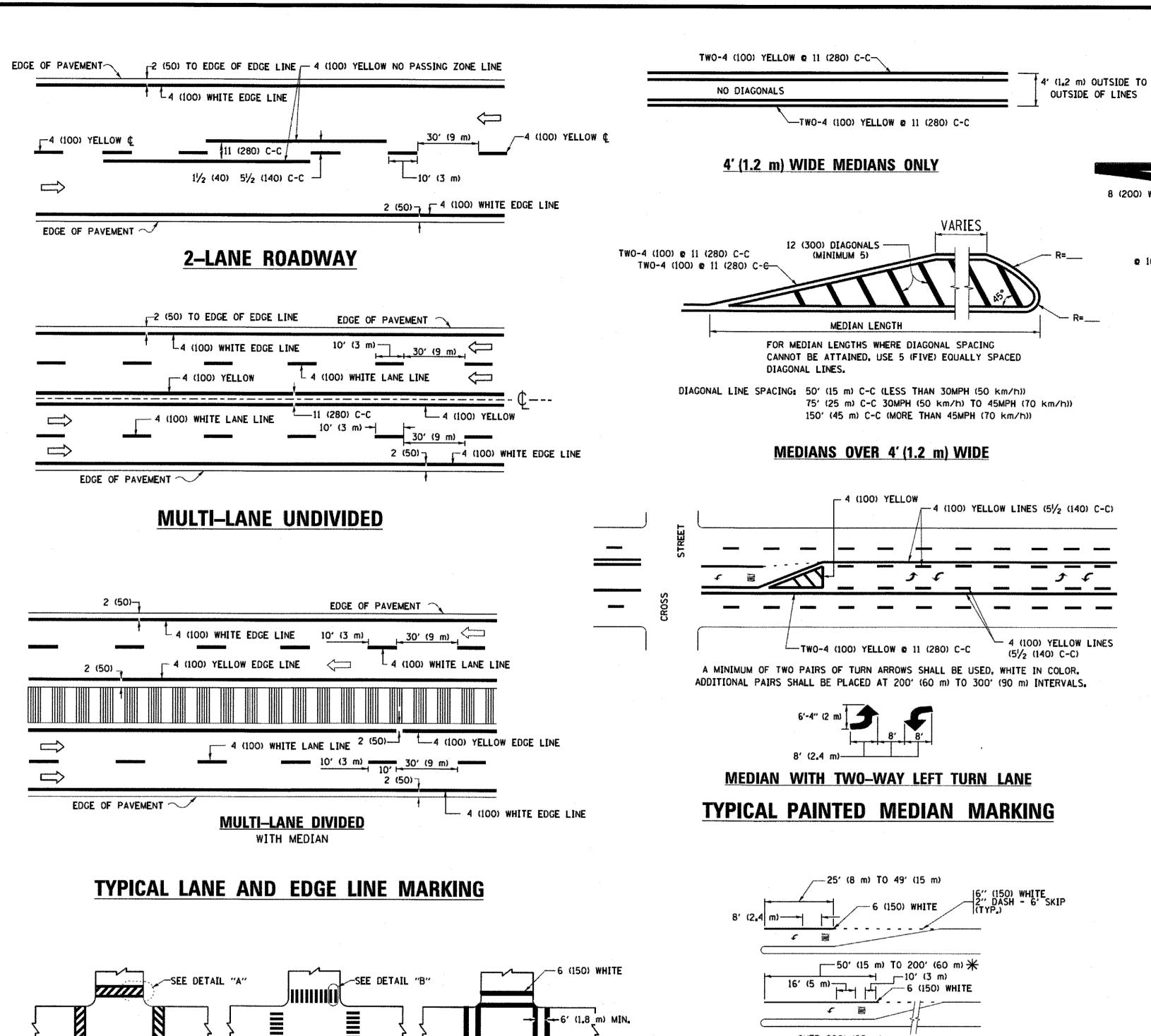
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = jdizenzo	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
		DRAWN -	REVISED - T. RAMMACHER 01-06-00
	PLOT SCALE = 20:0.000001 ': / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
Default	PLOT DATE = 5/24/17	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	TRAFFIC (CONTRO	L AND PRO	TECTION FOR	
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS					
SCALE: NONE	SHEET 1	OF 1	SHEETS S	TA. TO STA.	

··		FED.	AID	PROJECT	1101	710 30
	TC-10			CONTRAC	T NO 6	เการ
2760	14-00161-00-BR			COOK	34	32
F.A.U. RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEE NO.



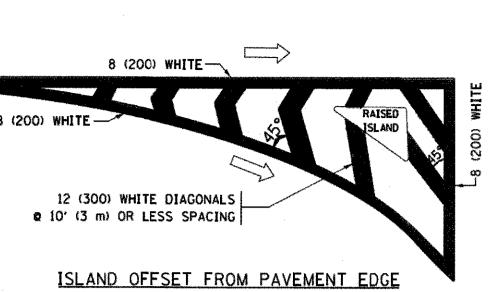
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \uparrow AREA = 15.6 SO. FT. (1.5 m²) (11.7 AREA = 20.8 SO. FT. (1.9 m²)

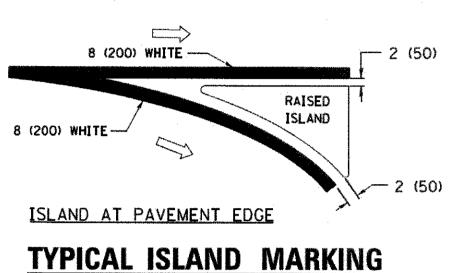
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF

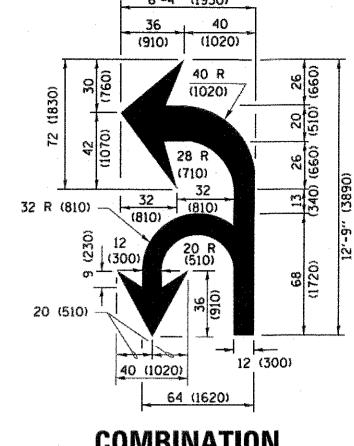
TYPICAL LEFT (OR RIGHT) TURN LANE

ARROW - "ONLY".

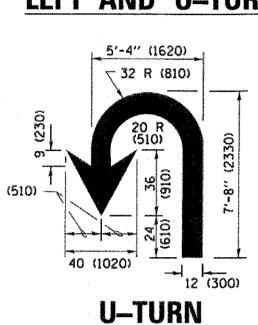
TYPICAL TURN LANE MARKING







COMBINATION LEFT AND U-TURN



750 55

SPEED LIMIT

30

35

45

50

D(FT)

425

500

580

665

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 2 4 (100)	SOLID SOLID	YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 & 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 51/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 & 6 (150) 12 (300) & 45° 12 (300) & 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE. WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALSa 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) © 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

NAME =	USER NAME = jdizenzo	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-0
		DRAWN -	REVISED - C. JUCIUS 07-01-1
	PLOT SCALE = 20:0.000001 ':" / 10.	CHECKED -	REVISED - C. JUCIUS 12-21-15
ult	PLOT DATE = 5/24/17	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-1

SCHOOL

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF

BICYCLE & EQUESTRIAN

DETAIL "A"

THE ROAD WHICH IT CROSSES

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

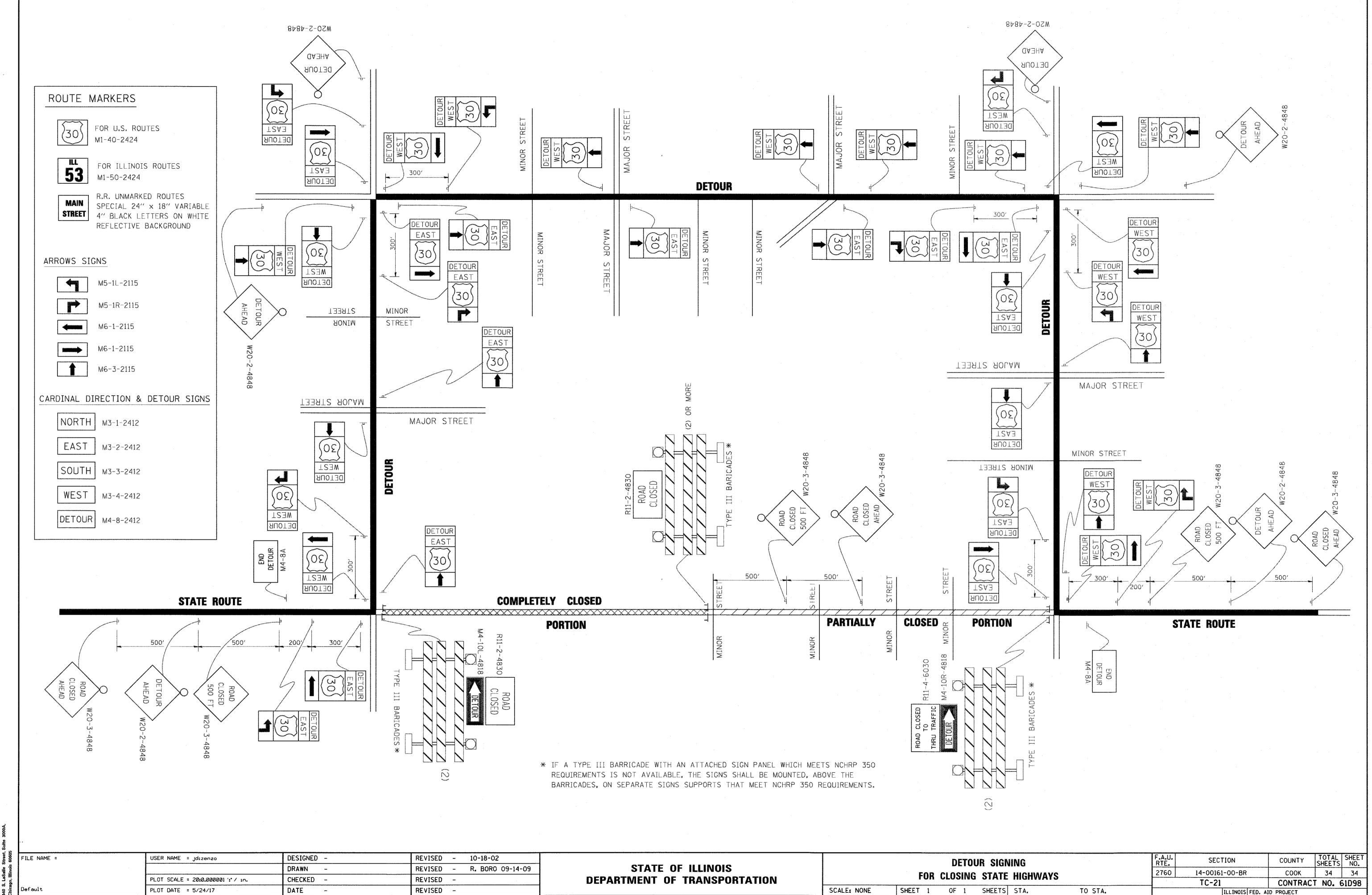
	CONSTRUCTION AND STATE STANDARD 780001.					
	DISTRICT ONE TYPICAL PAVEMENT MARKINGS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14-00161-00-BR	COOK	34	33
			TC-13		CONTRACT NO. 61D98	
	SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AID) PROJECT		

6' (1.8 m) MIN.

___12 (300) WHITE

DETAIL "B"

PEDESTRIAN



SHEET 1 OF 1 SHEETS STA. SCALE: NONE

ILLINOIS FED. AID PROJECT