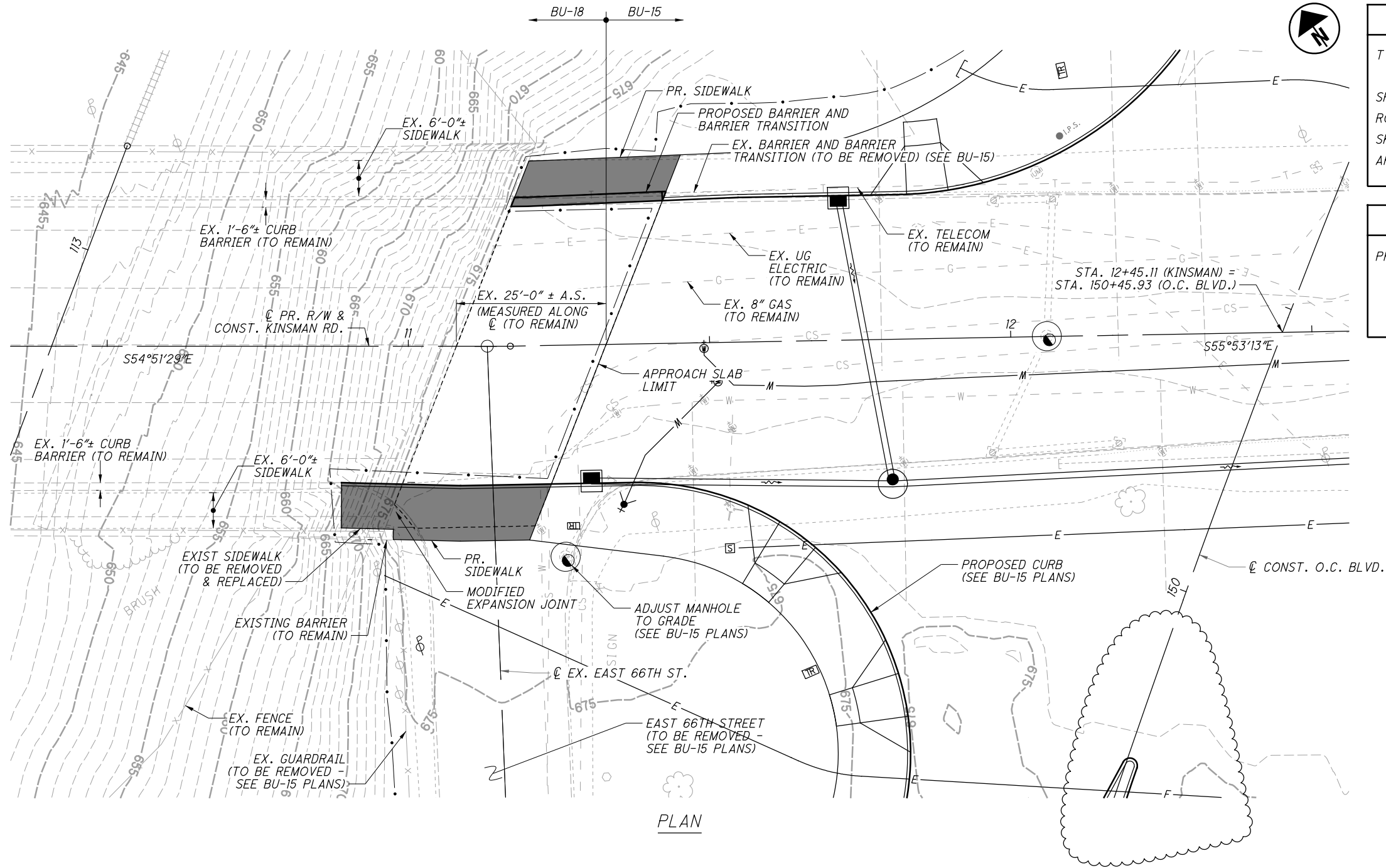


BU-18 - KINSMAN RD BRIDGE MODIFICATIONS  
 ..... \BU-18\96833\_GT018.dgn 6/27/2019 1:59:34 PM John.Corey

1	2024-09-10	RECORD DRAWINGS
0	2019-07-02	RFC
<b>NO.</b>	<b>DATE</b>	<b>DESCRIPTION</b>
<b>ISSUE RECORD</b>		



### EXISTING STRUCTURE

TYPE: CONTINUOUS STEEL BEAM (A572) PAINTED WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 32'-2 1/2" ±, 49'-11 1/16", 32'-2 1/2" ±, 56'-1 1/8" ±

ROADWAY: 46'-0" ± F/F OF BARRIER WITH TWO 6'-0" ± SIDEWALKS

SKEW: 21°19'50" L.F.

APPROACH SLABS: AS-1-81 (25'-0" ± LONG)

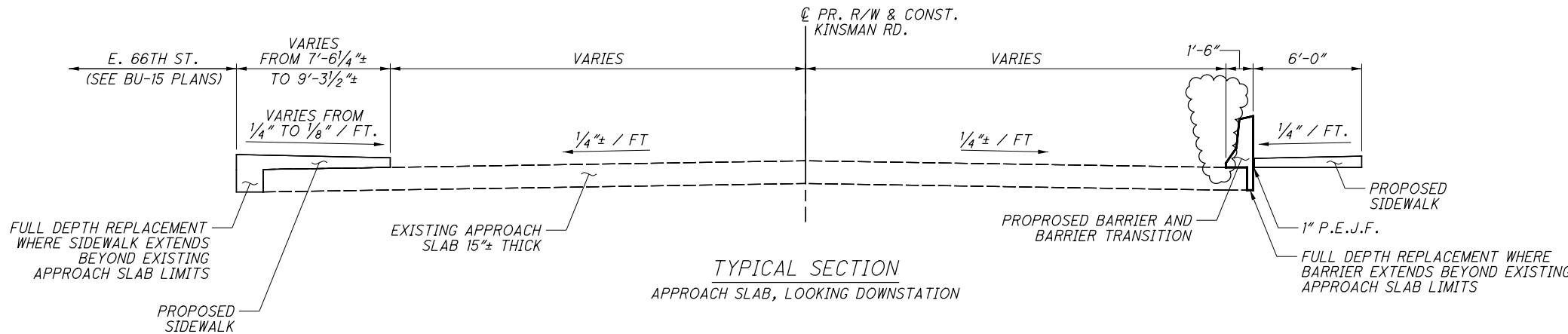
### PROPOSED WORK

PROPOSED WORK: REMOVAL AND REPLACEMENT OF NORTH BARRIER AND SIDEWALK ALONG APPROACH SLAB.

REMOVAL, MODIFICATION AND REPLACEMENT OF SOUTH SIDEWALK AND EXPANSION JOINT ALONG APPROACH SLAB.

AREAS OF PROPOSED WORK

PLAN



TYPICAL SECTION  
APPROACH SLAB, LOOKING DOWNSTATION

GENERAL PLAN			RECORD PLANS		
CUY-422-0290			KINSMAN ROAD OVER NSRR & GCRTA		
DESIGNED JCC			DRAWN JCC		
CHECKED MKB			REVIEWED CDC		
DATE 5-11-19			DATE 5-11-19		
STRUCTURE FILE NUMBER 1812335			STRUCTURE FILE NUMBER 1812335		
DESIGN AGENCY Michael Baker INTERNATIONAL			DESIGN AGENCY Michael Baker INTERNATIONAL		
1111 SUPERIOR AVE E, SUITE 2300, CLEVELAND, OH 44114			1111 SUPERIOR AVE E, SUITE 2300, CLEVELAND, OH 44114		
CUY-IR490/SR010-2.08/19.28			CUY-IR490/SR010-2.08/19.28		
PID No. 96833			PID No. 96833		
1 / 7			1 / 7		
NO.			NO.		
DATE			DATE		
DESCRIPTION			DESCRIPTION		
ISSUE RECORD			ISSUE RECORD		

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:  
EXJ-4-87 REVISED 7-19-02

AND THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS  
800 REVISED 4-15-16  
847 REVISED 7-15-16

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, SEVENTEENTH EDITION - 2004 AND THE 2004 ODOT BRIDGE DESIGN MANUAL.

DESIGN DATA:

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE)

SUPERPLASTICIZED DENSE CONCRETE PER ODOT SS 847.06 (OVERLAY)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS ARE SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO SUPPLEMENT 1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.

THE ANTI-GRAFFITI COATING SHALL ALSO MEET THE FOLLOWING REQUIREMENTS:

THE MATERIAL SHALL BE A SINGLE COMPONENT, RTV (ROOM TEMPERATURE VULCANIZED), NEUTRAL MOISTURE CURE, PERMANENT (NON-SACRIFICIAL), TYPE III (WATER CLEANABLE) POLYSILOXANE (SILICONE) ANTI-GRAFFITI COATING (FREE OF ANY WAXES, EPOXIES, OR POLYURETHANE COMPONENTS).

THE COATING SHALL BE A ONE COAT SYSTEM (NO PRIMER) CAPABLE OF BEING SPRAY APPLIED TO A DRY FILM THICKNESS OF 15 MILS (375 MICRONS) WITHOUT RUNS OF SAGS (MULTIPLE COAT APPLICATION ACCEPTABLE FOR BRUSH/ROLLER USAGE AND PRIMER USAGE ACCEPTABLE FOR SPECIALTY SUBSTRATES SUCH AS GALVANIZED METAL).

THE COATING SHALL EMIT LESS THAN 300 G/L (2.5 POUNDS PER GALLON) OF VOLATILE ORGANIZE COMPOUNDS (EPA METHOD 24).

THE COATING SHALL MEET THE FOLLOWING PERFORMANCE REQUIREMENTS:

- 1. CLEANABILITY LEVEL 1 (GRAFFITI COMPLETELY REMOVED WITH COLD WATER POWER WASH) AS PER ASTM D7089 WITH LOW PRESSURE (1200 PSI) COLD WATER WASH AFTER 2000 HOURS ACCELERATED UV-CONDENSATION EXPOSURE IN ACCORDANCE WITH ASTM D4587.

- 2. GRAFFITI REISTANCE LESS THEN 7.5 AS PER ASTM D6578 AFTER 2000 HOURS ACCELERATED UV-CONDENSATION EXPOSURE IN ACCORDACE WITH ASTM 4578.
- 3. NO SIGNS OF GRAFFITI STAINING AND MUST BE INTACT AND EXHIBIT NO SIGNS OF STREAKING, CRACKING, PINHOLING, DISCOLORING, OR OTHER VISIBLE COATING DEGRADATION UPON CASUAL OBSERVATION WHEN TESTED IN ACCORDANCE WITH TXDOT TEX 890-B, TYPE III METHOD.
- 4. BREATHABILITY OF 10 PERMS (+/- 3) PER ASTM D1653 USING "WET CUP METHOD".
- 5. ELONGATION AT BREAK GREATER THAN 100% AS PER ASTM D412 (USING DIE "D").
- 6. ADHESION RATING OF "8" - DIFFICULT TO REMOVE AS PER ASTM D6677 (ADHESION BY KNIFE).

ITEM 202 - PORTIONS OF STRUCTURES REMOVED, AS PER PLAN

THIS WORK CONSISTS OF THE REMOVAL OF PORTIONS OF THE CONCRETE SIDEWALKS FROM BRIDGE DECK AND APPROACH SLABS. REMOVAL OF PORTIONS OF EXPANSION JOINT ALSO INCLUDED. PERFORM WORK CAREFULLY DURING REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. THESE ITEMS INCLUDE SIDEWALK EXPANSION JOINT PLATES. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT IS PROHIBITED.

ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT

DRILL DOWEL HOLES WHERE SHOWN IN THE PLANS, INSTALL REINFORCING STEEL ACCORDING TO ITEM 510 USING HILTI, INC HIT-HY 200-R ADHESIVE SYSTEM OR AN APPROVED EQUAL. PRIOR TO DRILLING DOWEL HOLES, LOCATE ALL EXISTING REINFORCING STEEL BARS IN THE AREA OF THE HOLE WITH THE AID OF A REINFORCING STEEL BAR LOCATOR (PACHOMETER). IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, MOVE THE DOWEL HOLE TO EITHER SIDE OF THE EXISTING BAR.

ITEM 608 - CONCRETE SIDEWALK

ALL SIDEWALKS SHALL CONFORM TO THE FOLLOWING: PER 608.03(C), IT IS REQUIRED THAT 1/2 INCH THICK EXPANSION JOINT MATERIAL (C&MS 703.05) IS INSTALLED BETWEEN THE WALK AND THE BACK OF CURB AND INCH THICK FOR ANY OTHER FIXED OBJECT. IN ADDITION TO THE LOCATIONS SPECIFIED UNDER C&MS 608.03(C), TRANSVERSE EXPANSION JOINTS SHALL BE CONSTRUCTED AT INTERVALS OF NOT MORE THAN 25 TO 30 FEET UNLESS OTHERWISE DIRECTED. THE EXPANSION JOINT FILLER C&MS 705.03 SHALL BE PLACED AT THE TRANSVERSE EXPANSION JOINTS FOR THE FULL DEPTH/WIDTH OF THE CONCRETE WALK AND SHALL BE TRULY NORMAL TO GRADE. THE TOP 1/2 INCH OF THE EXPANSION JOINT PLACED BETWEEN THE WALK AND BACK OF CURB SHALL BE SEALED WITH C&MS 705.04 JOINT SEALER.

FINAL SURFACE FINISH OF WALKS SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPAL STANDARDS/ORDINANCES. IN ADDITION, A 2 INCH COMPACTED SCREENINGS BED THAT MEETS THE REQUIREMENTS OF C&MS 703.10 (LIMITED TO CRUSHED STONE) SHALL BE FURNISHED AND PLACED BENEATH ALL SIDEWALK AREAS.

ITEM 516 - HORIZONTAL EXTENSION OF STRUCTURAL EXPANSION JOINT, AS PER PLAN

ENSURE THAT EXISTING METAL SURFACES ARE SUITABLE FOR WELDING. DRY FIT PROPOSED PLATES AND GRIND AS NECESSARY TO ENSURE PROPER FIT. WELD PROPOSED PLATES AS SHOWN IN PLANS. USE CARE TO PREVENT DAMAGE TO EXISTING STRIP SEAL DURING WELDING. IF DAMAGE TO EXISTING STRIP SEAL IS EXPECTED OR OCCURS, REMOVE AND REPLACE SECTION OF STRIP SEAL.

ITEM 509 - REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN:

REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE, BY EITHER BECAUSE OF CORROSION OR CONCRETE REMOVAL OPERATIONS, WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE DEPARTMENT.

REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO 709.00.

ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, SIDEWALK, AS PER PLAN

PRIOR TO PLACING CONCRETE, ENSURE EXISTING SURFACE IS ROUGHENED PER ODOT SUPPLEMENTAL SPECIFICATION 847.18. IN ADDITION, CONTRACTOR SHALL ROUGHEN SURFACE TO ACHIEVE A 1/4" AMPLITUDE.

COARSE AGGREGATE FOR CONCRETE

ALL COARSE AGGREGATE SHALL HAVE AN ABSORPTION OF 1 PERCENT OR GREATER AS DEFINED BY THE AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) C127.

MAINTENANCE OF TRAFFIC

REFER TO BU-01 FOR RELEVANT MAINTENANCE OF TRAFFIC AND CLOSURE PLANS.

APPLICABLE ODOT CMS SPECIFICATIONS

THE FOLLOWING WORK ITEMS SHALL BE CONSTRUCTED PER THE CMS ITEMS LISTED IN THE TABLE BELOW.

ITEM NO.	ITEM DESCRIPTION
202	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	CONCRETE BARRIER REMOVED
503	UNCLASSIFIED EXCAVATION
509	EPOXY COATED REINFORCING STEEL
509	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN
510	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT
511	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)
511	CLASS QC2 CONCRETE WITH QC/QA, SIDEWALK, AS PER PLAN
512	SEALING OF CONCRETE SURFACES, AS PER PLAN
512	SEALING OF CONCRETE SURFACES (NON-EPOXY)
512	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
516	HORIZONTAL EXTENSION OF STRUCTURAL EXPANSION JOINT, AS PER PLAN
516	1" PREFORMED EXPANSION JOINT FILLER
608	6" CONCRETE WALK

ABBREVIATIONS:

B.F. - BACK FACE  
CONSTR. - CONSTRUCTION  
DIA. - DIAMETER  
E - EAST  
E.F. - EACH FACE  
EX. - EXISTING  
F.F. - FRONT FACE  
FT. - FOOT OR FEET  
HMWM - HIGH MOLECULAR WEIGHT METHACRYLATE  
MAX. - MAXIMUM

P.E.J.F. - PREFORMED EXPANSION JOINT FILLER  
PROP. - PROPOSED  
R/W - RIGHT OF WAY  
SDC - SUPERPLASTICIZED DENSE CONCRETE  
SER. - SERIES  
SPA. - SPACE OR SPACES  
STR - STRAIGHT  
TYP. - TYPICAL  
U.N.O. - UNLESS NOTED OTHERWISE

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GENERAL NOTES  
CUY-422-0290  
KINSMAN ROAD OVER NSRR & GCRTA

CUY-IR490/SR010-2.09/19.28  
PID No. 96833

2 / 7

4  
9

DESIGN AGENCY  
Michael Baker  
INTERNATIONAL  
1111 SUPERIOR AVE E, SUITE 2300, CLEVELAND, OH 44114

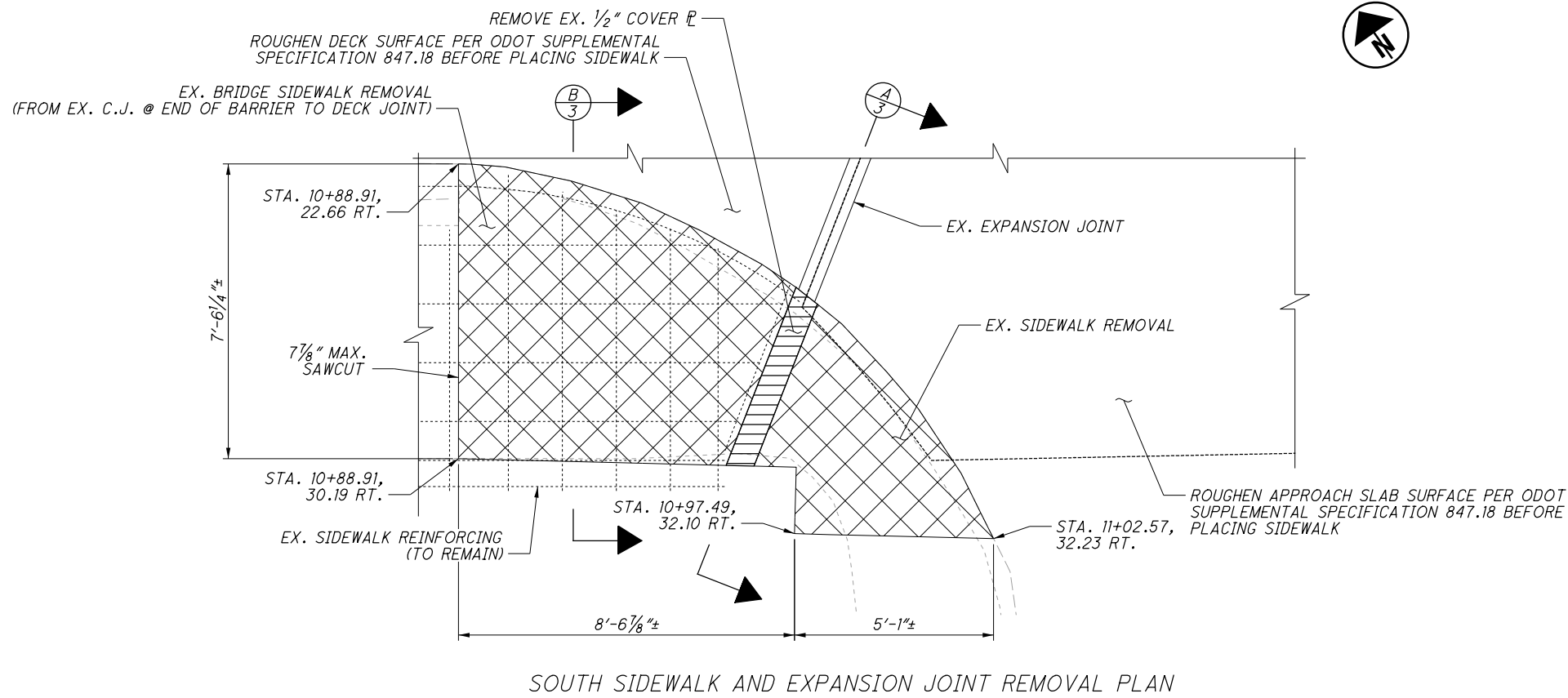
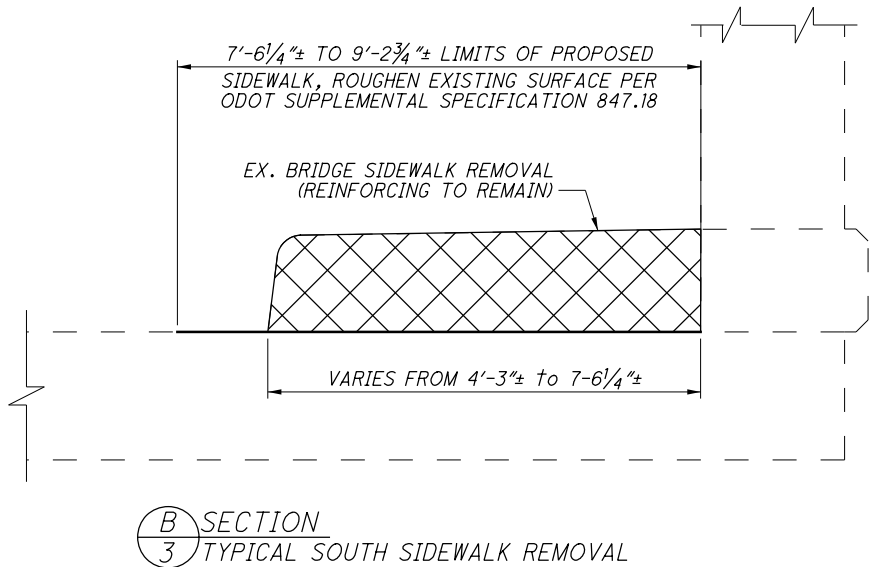
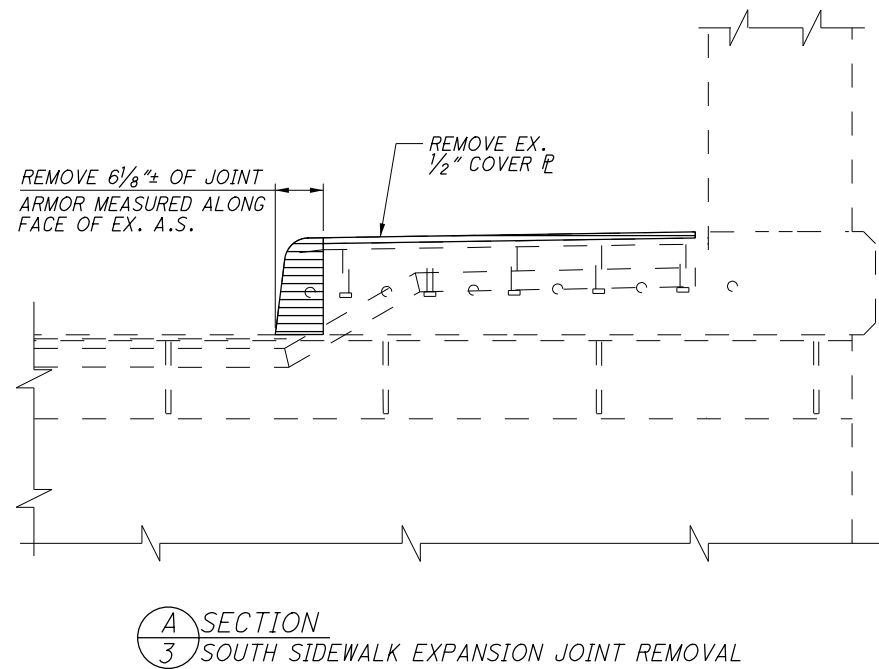
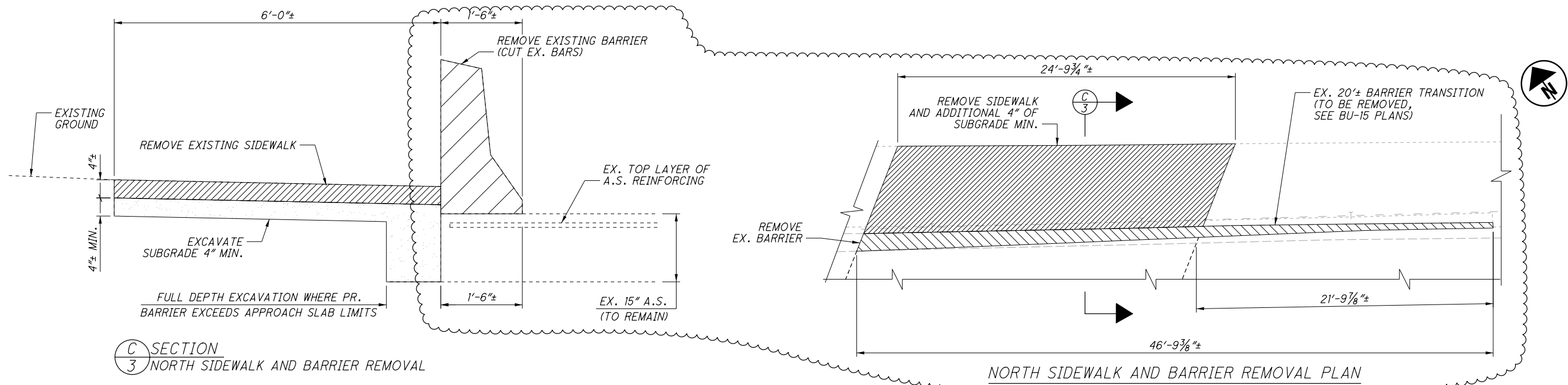
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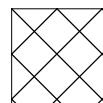
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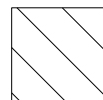
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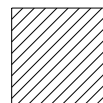
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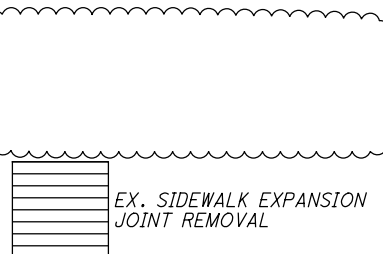
EX. BRIDGE SIDEWALK REMOVAL



EX. BARRIER REMOVAL

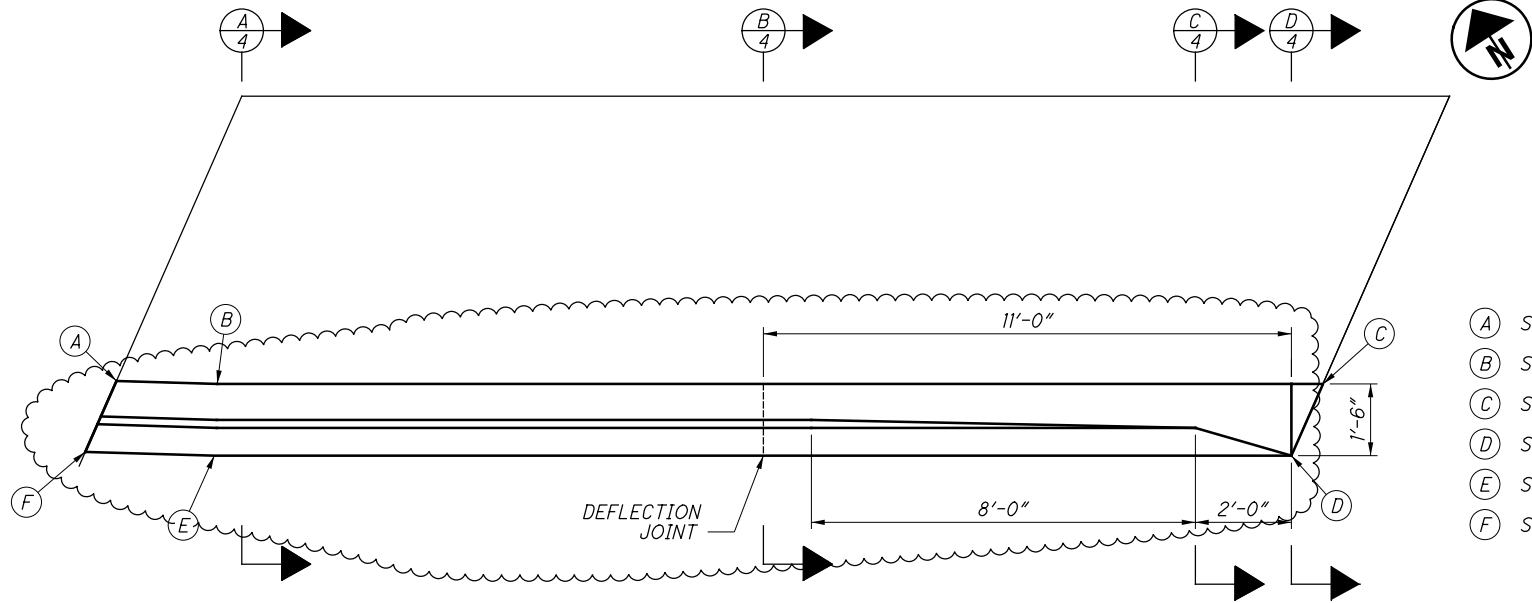


EX. SIDEWALK REMOVAL

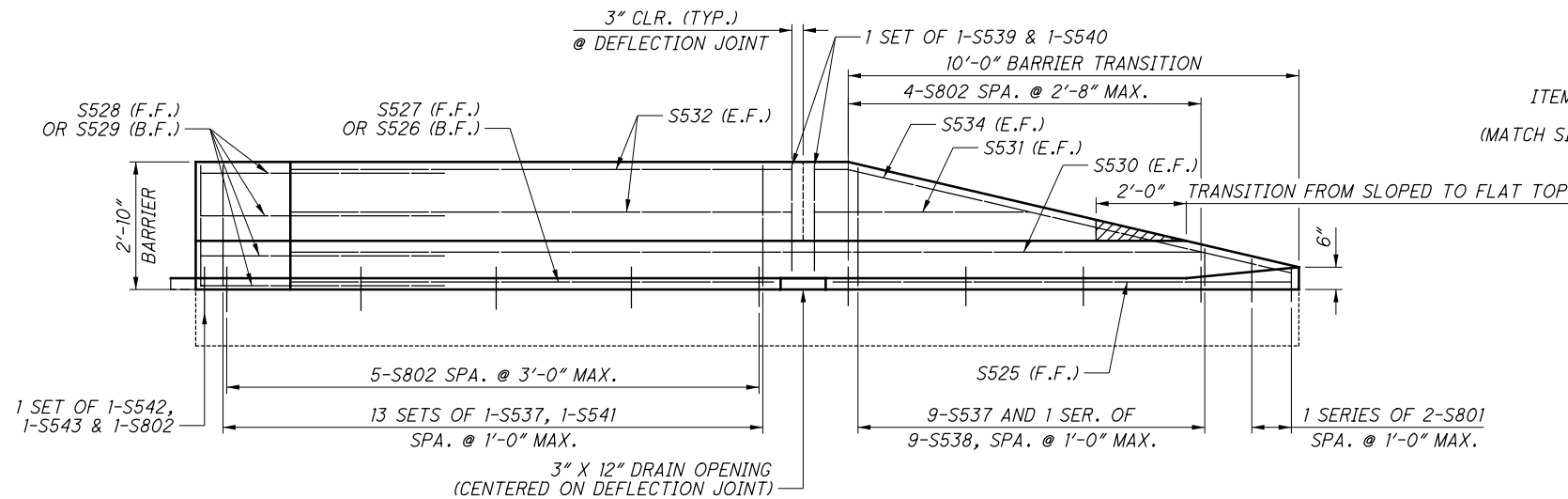


EX. SIDEWALK EXPANSION JOINT REMOVAL

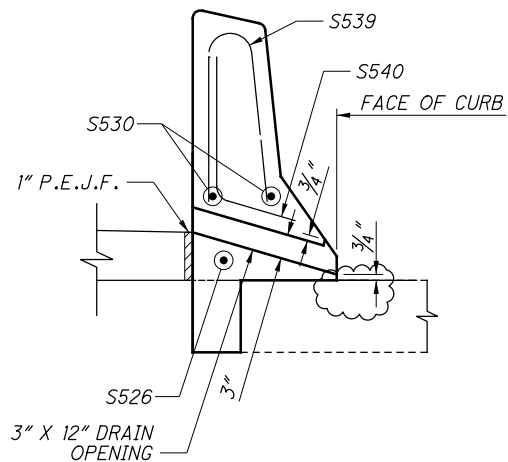
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0	2019-07-02	RFC
ISSUE RECORD		



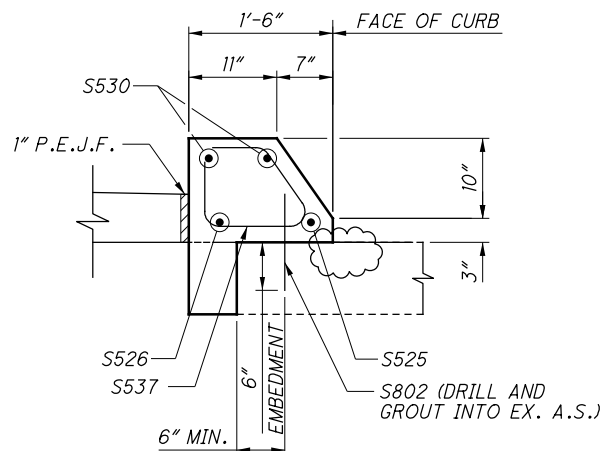
NORTH SIDEWALK AND BARRIER PLAN



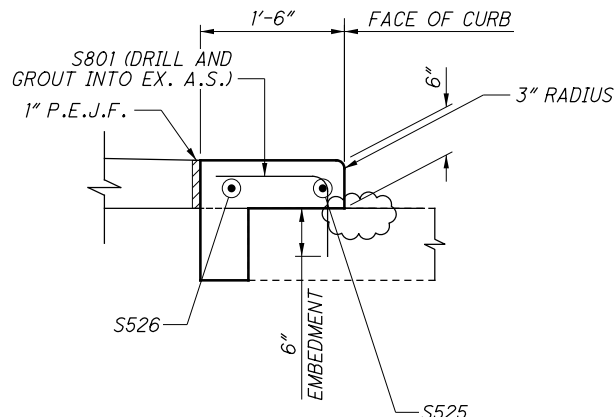
BARRIER ELEVATION



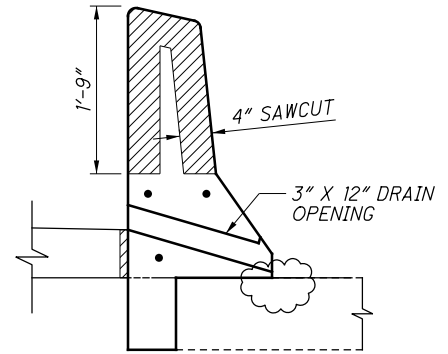
B SECTION



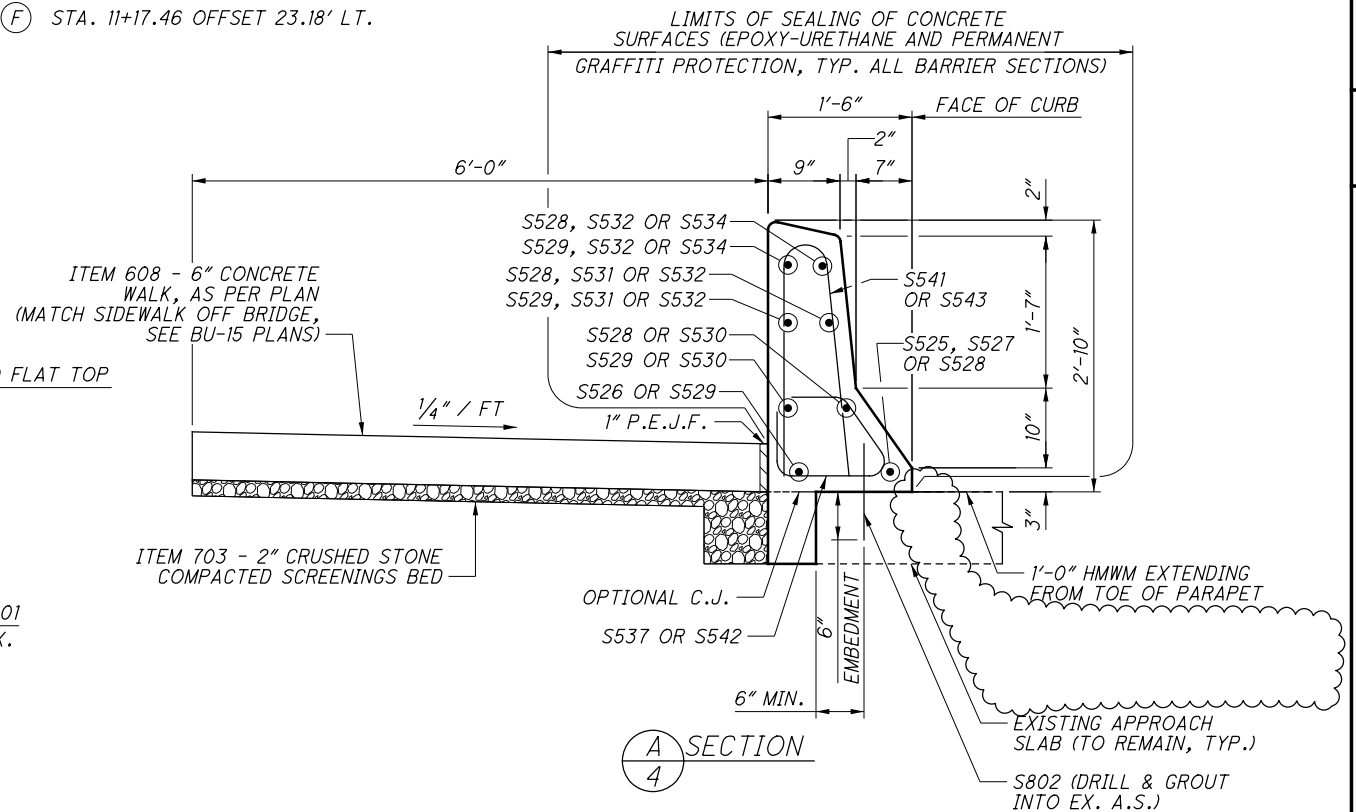
C SECTION



D SECTION



DEFLECTION JOINT DETAIL



A SECTION

NOTES:

SAWCUT 1/4" INCH DEEP DEFLECTION JOINTS ALONG THE PERIMETER OF THE PARAPET WHEN THE CONCRETE IS STILL GREEN OR AS SOON AS THE SAW CAN BE OPERATED WITHOUT DAMAGING THE CONCRETE.

AFTER THE CONCRETE CURING PERIOD IS SPECIFIED IN CMS 511.14 HAS BEEN REACHED, PERFORM 4" SAWCUT AS SHOWN IN DEFLECTION JOINT DETAIL.

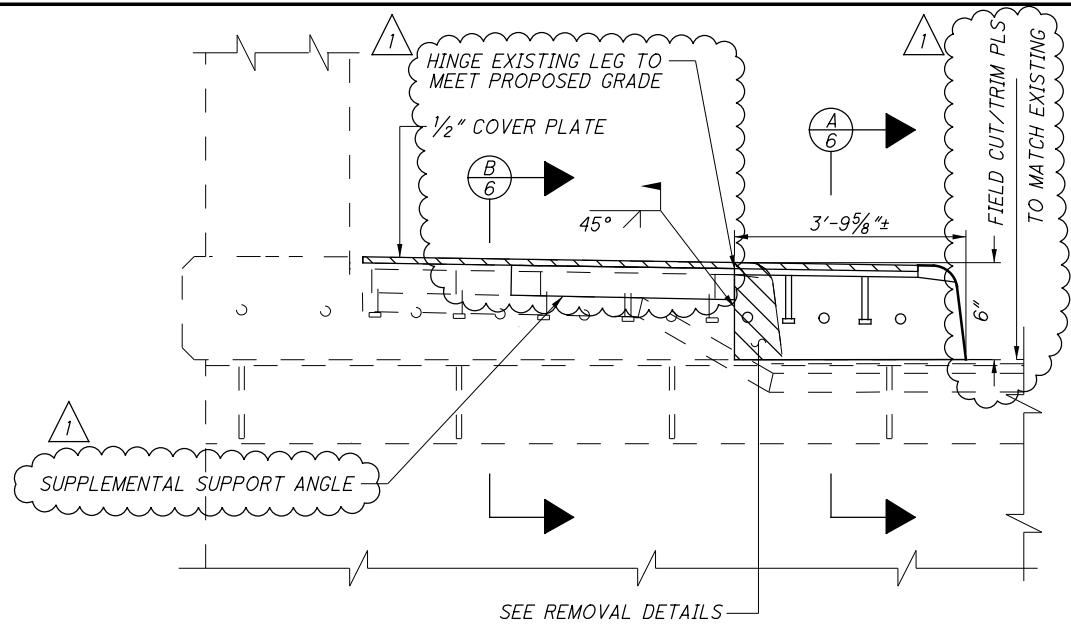
USE AN EDGE GUIDE, FENCE, OR JIG TO ENSURE THAT THE CUT JOINT IS STRAIGHT, TRUE, AND ALIGNED ON ALL FACES OF THE PARAPET. THE JOINT WIDTH SHALL BE THE WIDTH OF THE SAW BLADE, A NOMINAL WIDTH OF 1/4" INCH.

SEAL THE PERIMETER OF THE DEFLECTION JOINTS TO A MINIMUM DEPTH OF ONE INCH WITH POLYURETHANE OR POLYMERIC MATERIAL CONFORMING TO ASTM C920, TYPE S. LEAVE THE BOTTOM 1/2" INCH OF BOTH THE INSIDE AND OUTSIDE FACES OF THE PARAPET UNSEALED TO ALLOW ANY WATER WHICH MAY ENTER THE JOINT TO ESCAPE.

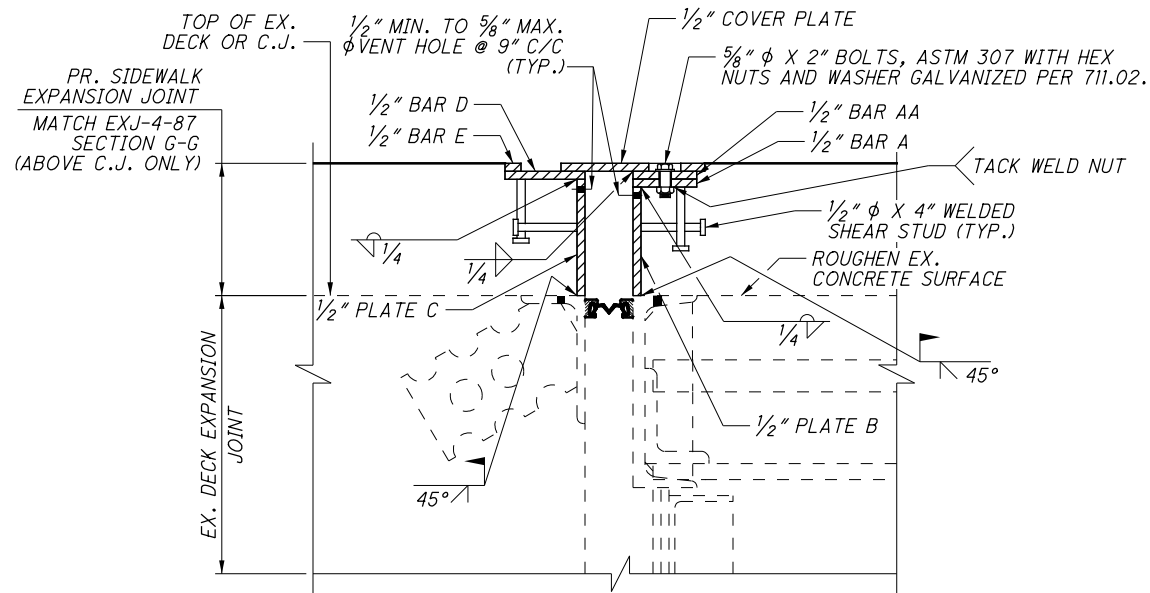
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ISSUE RECORD		



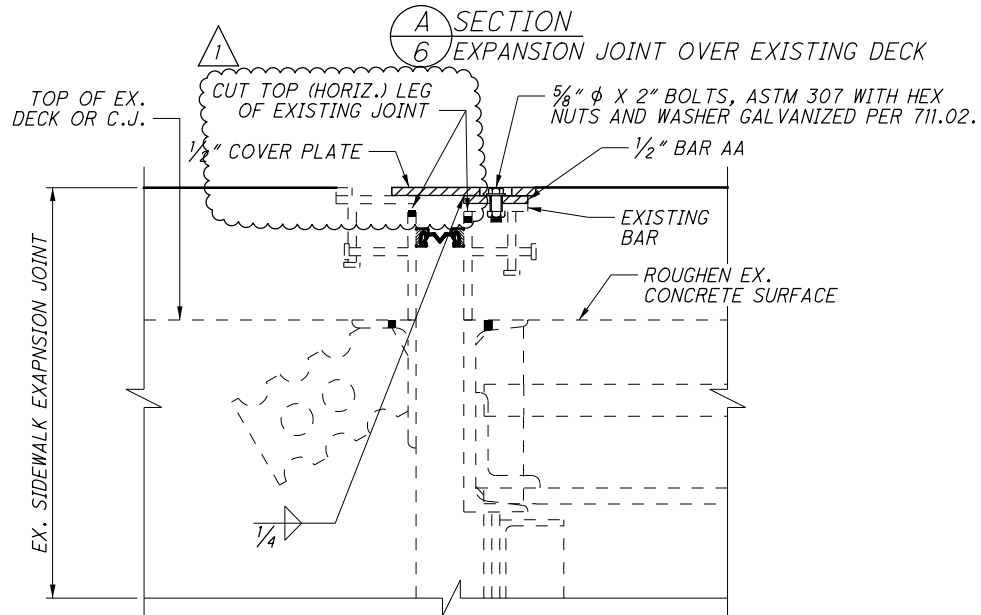




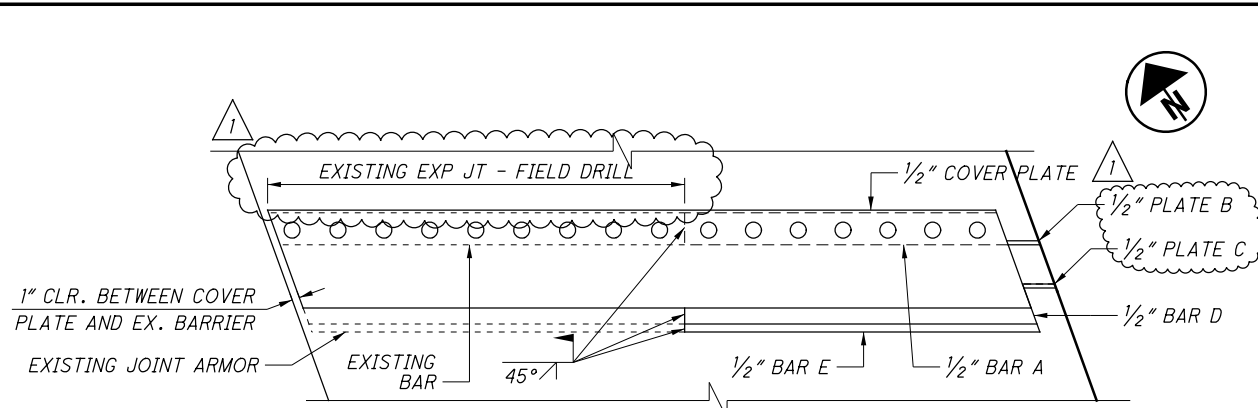
SIDEWALK EXPANSION JOINT ELEVATION



SECTION A-6 EXPANSION JOINT OVER EXISTING DECK

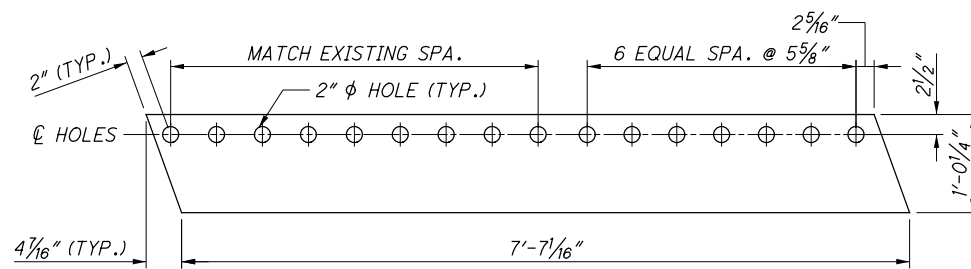


SECTION B-6 EXPANSION JOINT OVER EXISTING SIDEWALK

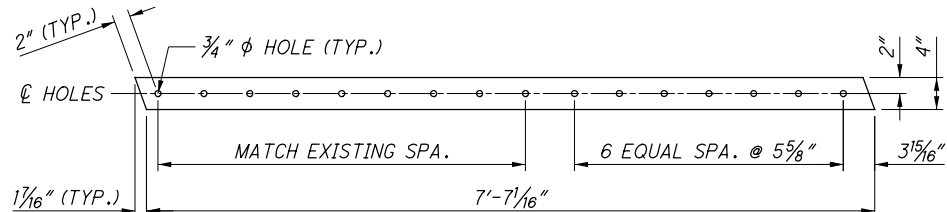


SIDEWALK EXPANSION JOINT PLAN  
(BAR AA NOT SHOWN FOR CLARITY)

NOTE: PLATES B AND C MAY BE FIELD CUT TO PRESERVE JOINT GLAND. FIELD METALLIZE CUT FACES PER C&MS 516.



COVER PLATE DETAIL



BAR AA DETAIL

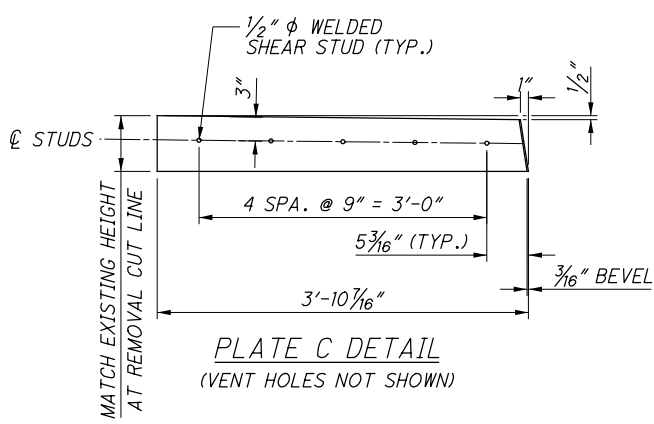
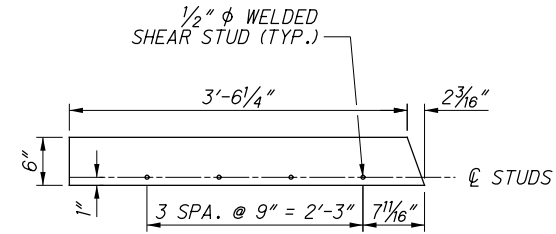
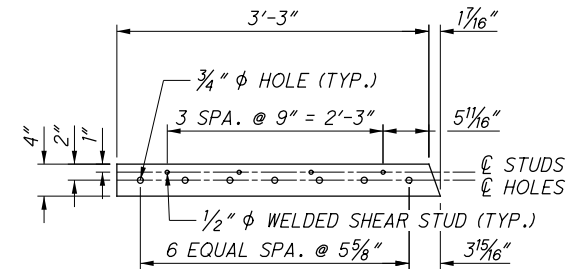


PLATE C DETAIL  
(VENT HOLES NOT SHOWN)



BAR D DETAIL



BAR A DETAIL

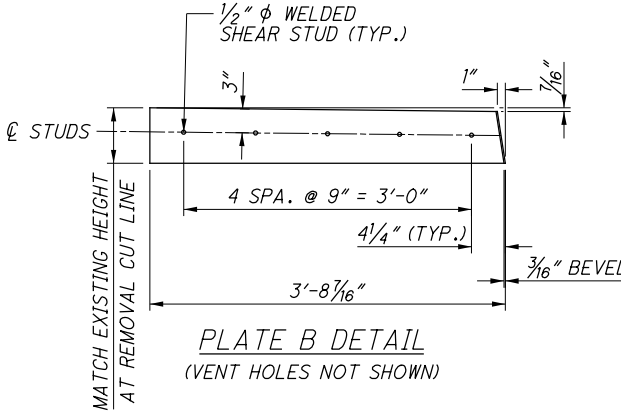
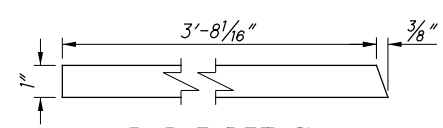


PLATE B DETAIL  
(VENT HOLES NOT SHOWN)



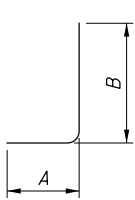
BAR E DETAIL

NOTES:

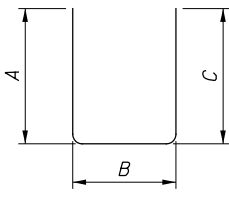
- ALL STEEL PLATES SHALL BE ASTM A709, GRADE 36, 50 OR 50W. COAT ALL STEEL PARTS OF THE NEW JOINT ASSEMBLY ACCORDING TO 516.
- SEE STANDARD DRAWING EXJ-4-87 FOR ADDITIONAL INFORMATION

NO.	DATE	DESCRIPTION
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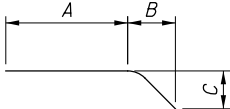




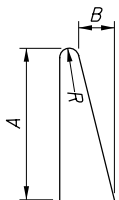
TYPE-1



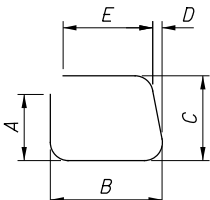
TYPE-2



TYPE-19



TYPE-38



TYPE-37

SIDEWALK BARS											
MARK	NUMBER TOTAL	LENGTH	WEIGHT (LBS.)	TYPE	DIMENSIONS						SER INC.
					A	B	C	D	E	R	
	1	8'-7"									
S501	SER. OF	TO	28	STR						4"	
	3	9'-3"									
S502	5	7'-1"	37	STR							
	1	1'-8"									
S503	SER. OF	TO	6	STR						2'-8"	
	2	4'-4"									
S504	3	7'-8"	24								
S505	40	1'-6"	63	1	0'-10"	0'-9 1/2"					
S506	23	9'-5"	226	STR							
S507	7	24'-4"	178	STR							
S508	1	24'-4"	25	19	9'-7 1/2"	14'-9"	0'-7 1/2"				
S509	1	22'-4"	23	19	11'-0"	11'-4"	0'-6"				
S510	1	22'-8"	24	STR							
S511	1	4'-10"	5	2	3'-0"	1'-0 1/2"	1'-0"				
S512	23	3'-1"	74	2	1'-3"	1'-0 1/2"	1'-0"				
S513	19	2'-8"	53	STR							
S514	5	1'-6"	8	STR							
		TOTAL:	774	LBS.							

BARRIER BARS										
MARK	NUMBER TOTAL	LENGTH	WEIGHT (LBS.)	TYPE	DIMENSIONS					SER INC.
					A	B	C	D	E	
S525	1	10'-2"	11	STR						
S526	1	22'-11"	24	STR						
S527	1	10'-9"	11	STR						
S528	4	5'-11"	25	19	3'-6"	2'-5"	0'-1"			
S529	4	5'-6"	23	19	3'-6"	2'-0"	0'-1"			
S530	2	20'-3"	42	STR						
S531	2	4'-9"	10	STR						
S532	4	11'-2"	47	STR						
S533	NOT USED									
S534	2	11'-0"	23	19	0'-9"	10'-0"	2'-4"			
S535	NOT USED									
S536	NOT USED									
S537	22	3'-2"	72	37	0'-8"	1'-0"	0'-10"	0'-6"	0'-6"	
	1	1'-8"			0'-10"					
S538	SER. OF.	TO	28	38	TO	0'-3"				0'-2 3/4" 3 13/16"
	9	4'-3"			2'-1 3/8"					
S539	2	3'-6"	7	38	1'-9"	0'-2 1/2"				0'-2 3/4"
S540	2	2'-2"	5	19	1'-4"	0'-4 1/4"	0'-9 3/4"			
S541	13	4'-10"	65	38	2'-5"	0'-3"				0'-2 3/4"
S542	1	3'-4"	3	37	0'-8"	1'-1"	0'-10"	0'-6 1/2"	0'-6 1/2"	
S543	1	4'-4"	5	38	2'-2"	0'-3 1/4"				0'-3"
	1	1'-10"				0'-10"				
S801	SER. OF.	TO	10	1	1'-2"	TO				3"
	2	2'-1"				1'-1"				
S802	10	1'-0"	27	STR						
		TOTAL:	438	LBS.						

0	2019-07-02	RFC
NO.	DATE	DESCRIPTION
ISSUE RECORD		

CUY-IR490/SR010-2.09/19.28  
PID No. 96833

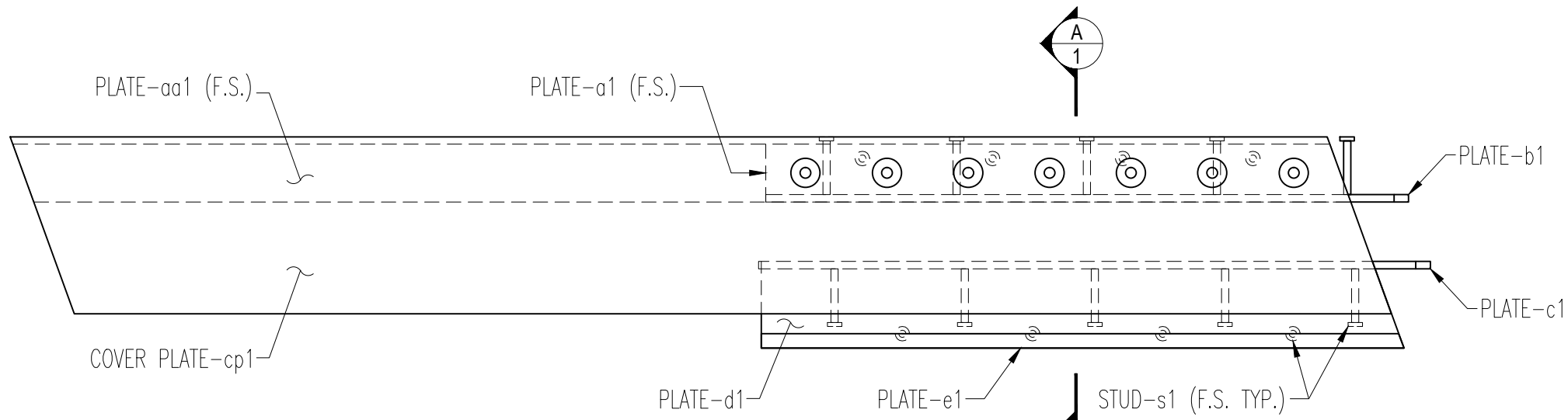
7 / 7

DESIGNED  
JCC

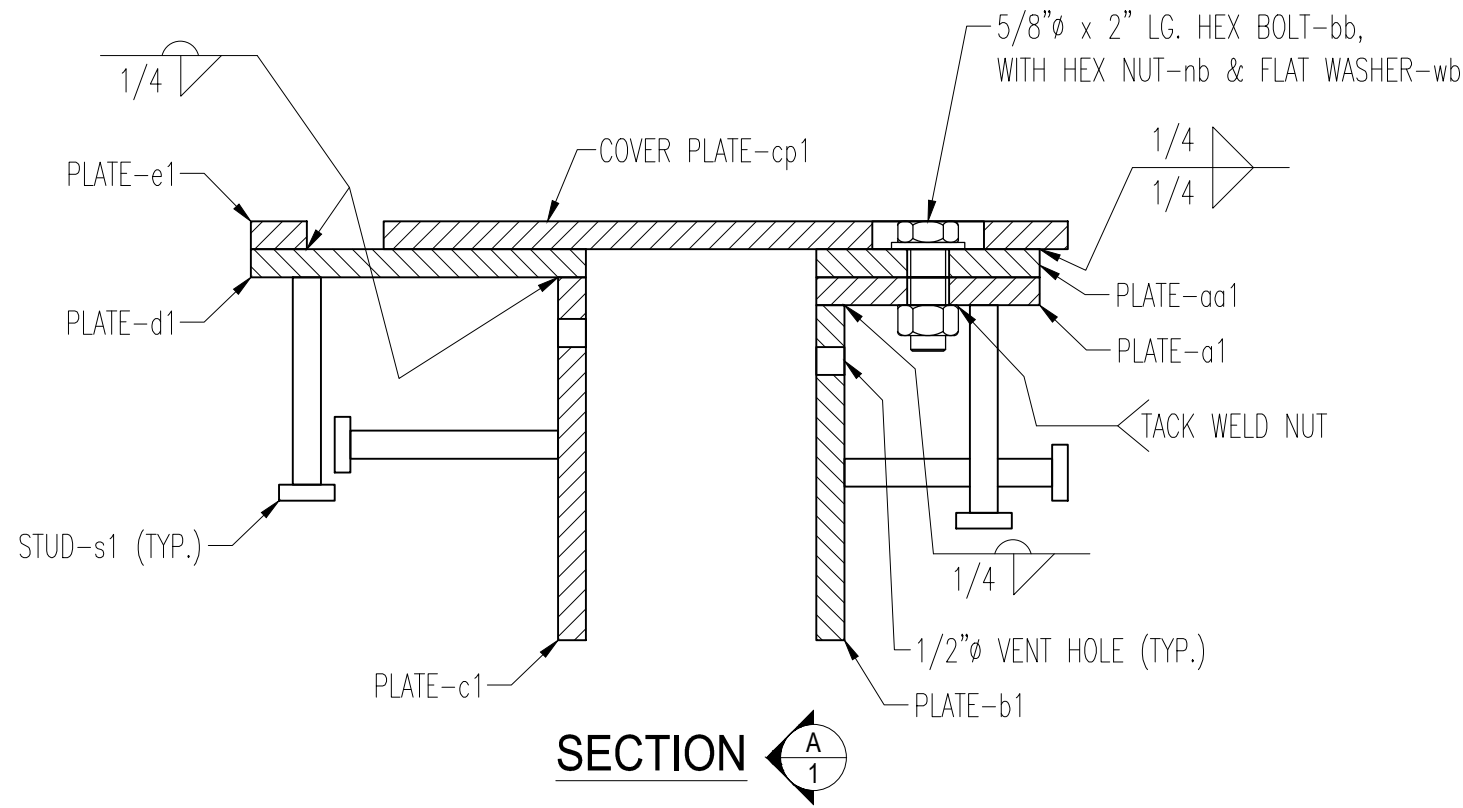
CHECKED  
MKB

DRAWN  
JCC

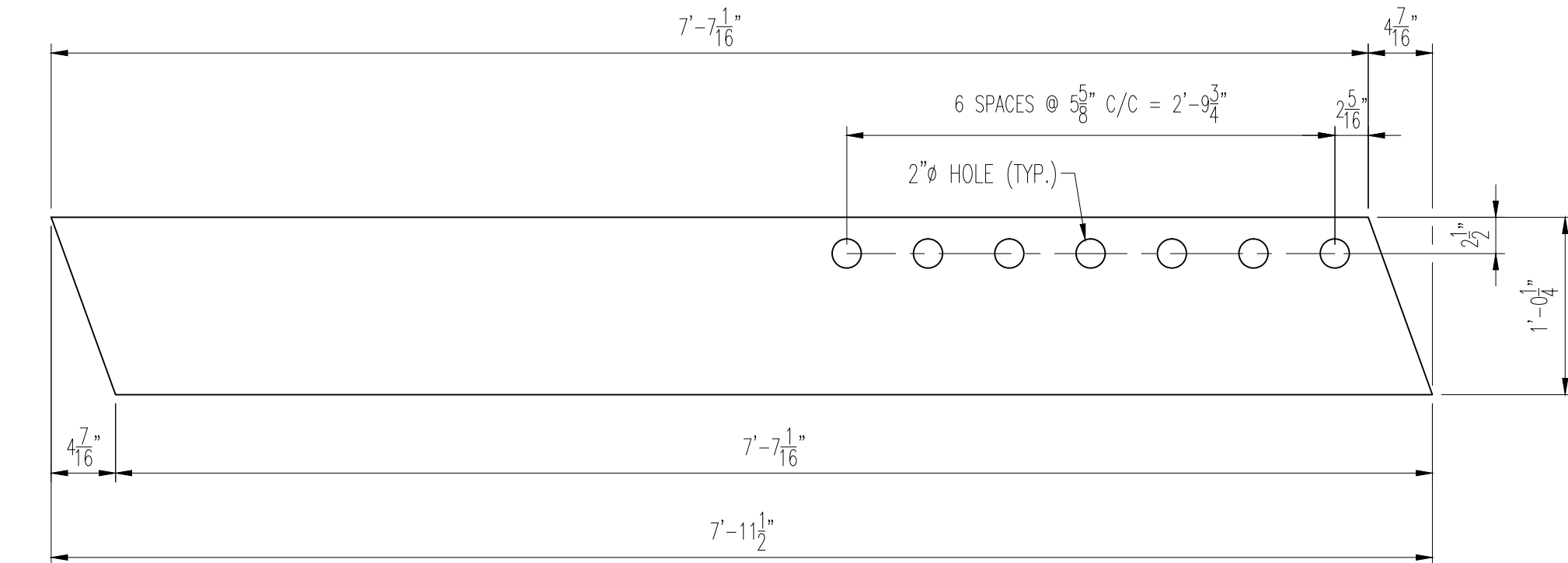
REVISED



SIDEWALK REPAIR (PLAN VIEW)

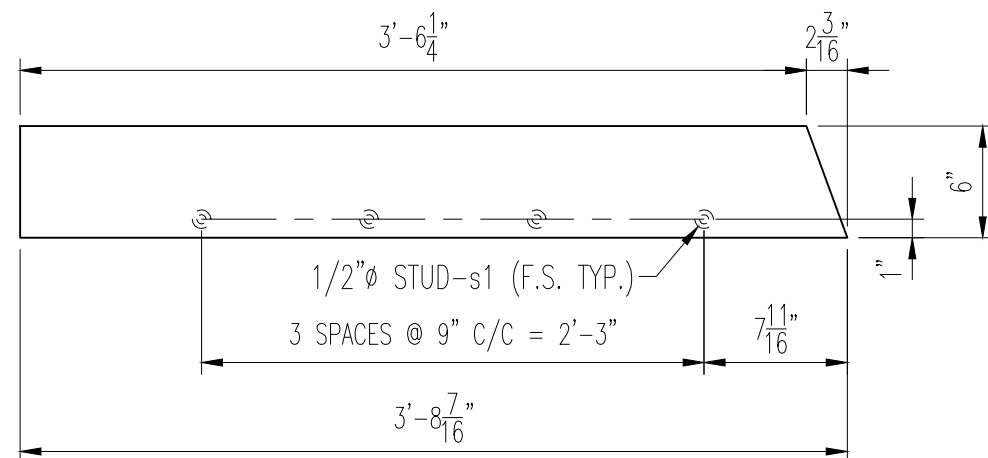


SECTION



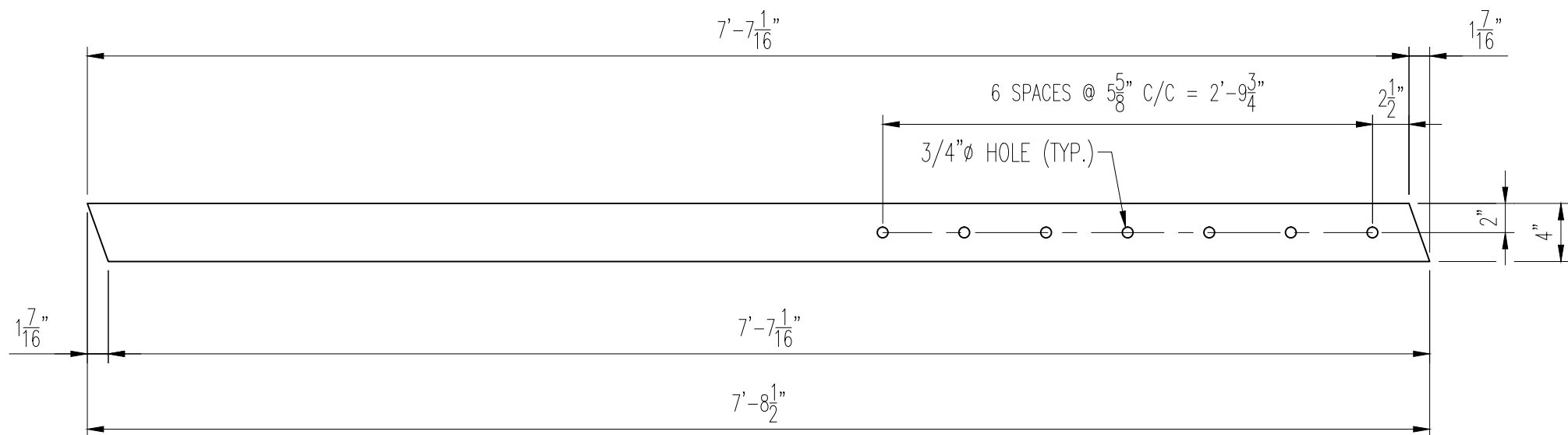
1 - Sidewalk Cover Plate - cp1

MATERIAL: 1/2" PLATE



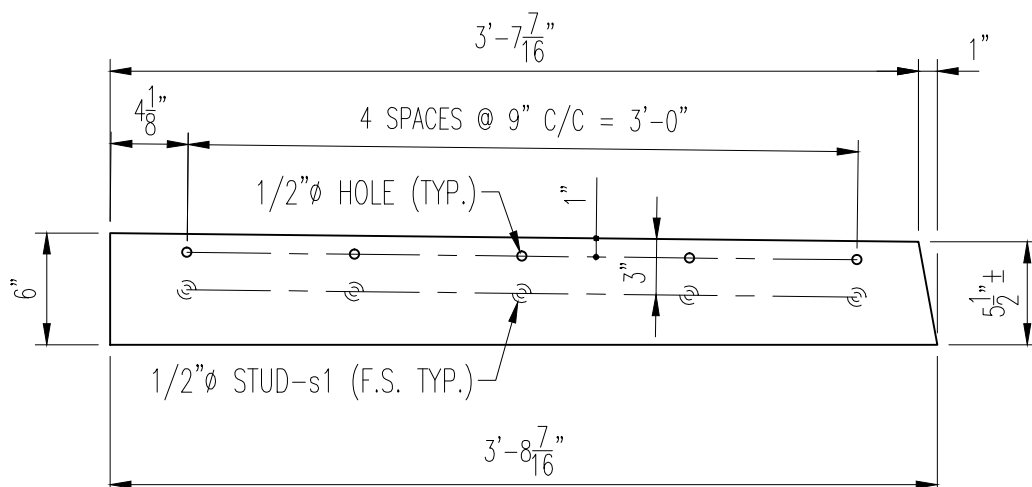
1 - Plate - d1

MATERIAL: 1/2" PLATE



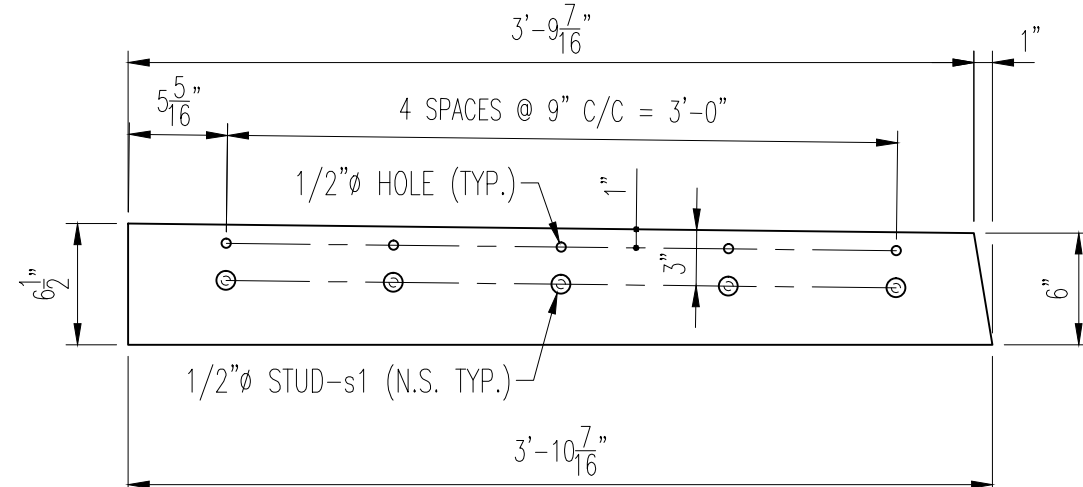
1 - Plate - aa1

MATERIAL: 1/2" PLATE



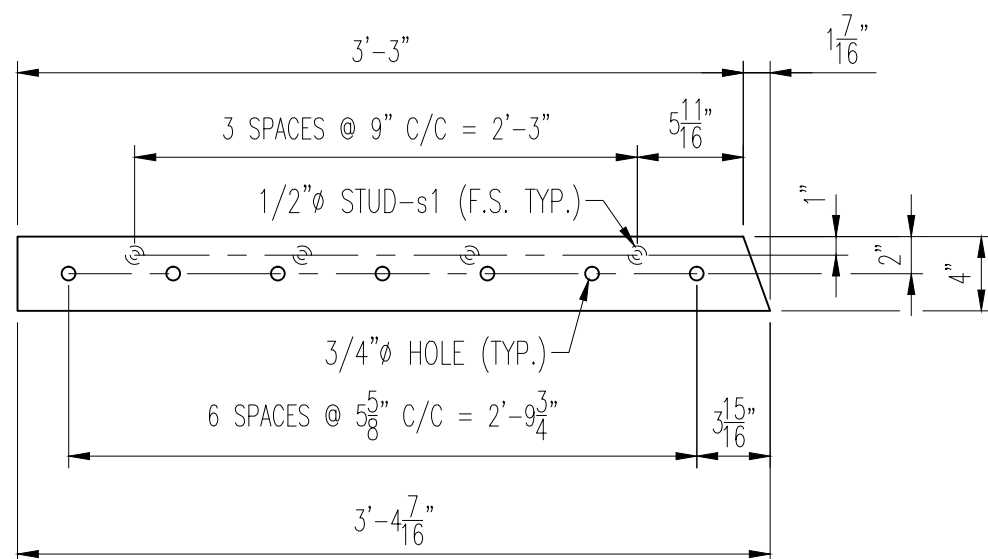
1 - Plate - b1

MATERIAL: 1/2" PLATE



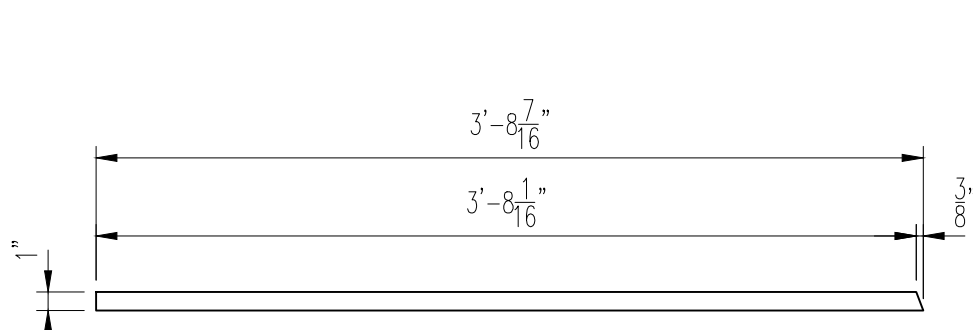
1 - Plate - c1

MATERIAL: 1/2" PLATE



1 - Plate - a1

MATERIAL: 1/2" PLATE



1 - Plate - e1

MATERIAL: 1/2" PLATE



AISC  
CERTIFIED  
FABRICATOR

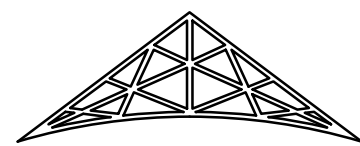
BRIDGE - INTERMEDIATE (MAJOR)  
FRACTURE CRITICAL ENDORSEMENT  
SOPHISTICATED PAINT ENDORSEMENT

REV. No.	REVISION
SHOP INSPECTED BY:	

NOTES:

SEE CONTRACT PLANS FOR FIELD WELD DETAILS

APPROVAL



Ohio Structures Inc.

4030 Boardman Canfield Road, Ste. 200 D  
Canfield, Ohio 44406  
(330) 533-0084 Fax: (330) 533-0191

STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
CUY - 422 - 0290  
KINSMAN ROAD OVER NSRR & GCRTA

SCALE: N.T.S.	Kokosing Construction Company, Inc.	DRAWN: MJ
DATE: 1/21	SIDEWALK REPAIR PART DETAILS & B.O.M.	CHECK: JDC
REF NO.: BU-18	ITEM NO.: 516	
ODOT PROJ. NO.: 173000	CUYAHOGA COUNTY	DWG. NO.: D1
OSI PROJ. NO.: 19-22	PID NO.: 96833 / SFN: 1812335	1 OF 1

DOT PROJECT : 173000				OSI PROJECT #: 19-22				REF #: BU18				ITEM#: 516			
SIDEWALK REPAIR PARTS															
MATERIALS ONLY:															
LINE	PO#		QTY	MARK	SECTION		LENGTH (FEET)	LENGTH (INCHES)	STL SPEC	PC WT (IN LBS)	NET WT (IN LBS)	HEAT #		REMARK	
1			1	aa1	PLATE 1/2 x 4		7	8 1/2	A709-36	52.47	52.47				
2			1	a1	PLATE 1/2 x 4		3	4 7/16	A709-36	22.94	22.94				
3			1	b1	PLATE 1/2 x 6		3	8 7/16	A709-36	37.81	37.81				
4			1	c1	PLATE 1/2 x 6 1/2		3	10 7/16	A709-36	42.80	42.80				
5			1	cp1	PLATE 1/2 x 12 1/4		7	11 1/2	A709-36	165.89	165.89				
6			1	d1	PLATE 1/2 x 6		3	8 7/16	A709-36	37.81	37.81				
7			1	e1	PLATE 1/2 x 1		3	8 7/16	A709-36	6.30	6.30				
										SUB TOTAL		366.01			
HARDWARE ONLY:															
LINE			QTY	MARK	DESCRIPTION				STL SPEC	WT PER (IN LBS)	NET WT (IN LBS)	HEAT #		REMARKS	
8			16	bb	5/8x2 HEX HEAD BOLT				A307 Galv	0.26	4.10				
9			16	nb	5/8 HEAVY HEX NUT				A563 Galv	0.12	1.92				
10			16	wb	5/8 FLAT WASHER				F436 Galv	0.03	0.53				
11			18	s1	1/2x4-1/8 CONCRETE ANCHOR				A108	0.28	5.08				
										SUB TOTAL		11.62			
										TOTAL WT		377.63			

GENERAL NOTES:

\* MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH ODOT-CMS-2016.

\* WELDING SHALL BE IN ACCORDANCE WITH AWS/AASHTO D1.5-15 AND ODOT 1011.

\* ALL MATERIAL TO BE METALIZED IN CONFORMANCE WITH O.D.O.T. STANDARD DRAWING EXJ-4-87 DATED 7/19/02.

\* ALL INFORMATION & DIMENSIONS ARE TO BE APPROVED BY THE CONTRACTOR PRIOR TO COMMENCING FABRICATION.