

LEGEND

- ① NEOPRENE STRIP SEAL & STEEL EXTRUSIONS; BRG. INDUSTRIES BS-400A, D.S. BROWN 65A-400; STRUCTURAL ACCESSORIES SA2-4055; & WATSON-BOWMAN & ACME A3-400E. EXTRUSIONS TO BE ASTM A-36.
- ② STUDS 5/8" DIA. x 6 3/8" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSION & BEND AS SHOWN AFTER WELDING. TYP. EXCEPT STUDS 5/8" DIA. x 4" LONG AT SIDEWALK.
- ③ SUPPORT ROD 3/4" DIA. WITH 2 NUTS & WASHERS WITH ONE END THREADED 4". GROUT THREAD ROD INTO FIELD DRILLED HOLES IN ABUT. BACKWALL AND TACK WELD TO GIRDER AS SHOWN. PLACE AT EACH GIRDER.
- ④ 3/4" DIA. THREADED ROD WITH NUT TACK WELD NUT TO NO. ⑤
- ⑤ FABRICATE SUPPORT FROM 3"x 1/2" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER FIELD OR SHOP WELD TO NO. ①. PROVIDE 1 1/2" DIA. HOLE FOR NO. ③ & 1" DIA. HOLE FOR NO. ④.
- ⑥ 5" x 7/8" STUDS @ 1'-0" CTRS. INCIDENTAL TO BID ITEM "JOINT REPAIR".
- ⑦ 3/4" x 1 1/2" STAINLESS STEEL FLAT HEAD MACHINE SCREWS. RECESS 1/16" BELOW PLATE SURFACE.
- ⑧ 3/4" x 4" GALV. HEX HEAD BOLT. BENT 45°.
- ⑨ 3/4" x 2 1/4" GALV. THREADED COUPLING.
- ⑩ SIDEWALK GUARD PLATE 3/8" x 2'-0" WIDE x LIMITS SHOWN. BEND DOWN FACE OF SIDEWALK WITH HOLES FOR NO. ⑦
- ⑪ 1" x 5" SLOTTED CK. HOLE FOR NO. ⑦ SLOT PARALLEL TO DIRECTION OF MOVEMENT.

NOTES:

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSION. IF USED, IT SHALL BE LOCATED IN THE CL RDWY. AND DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION BUT BEFORE SHIPMENT, STRAIGHTEN EXTRUSIONS SUCH THAT THEY WILL BE FREE FROM WARP, TWIST & SWEAP.

AFTER FABRICATION, SAND BLAST CLEAN STEEL EXTRUSIONS SURFACES TO SSPC SP. 10 AND PAINT ALL STEEL EXTRUSION SURFACES WITH 3 MILS OF ORGANIC ZINC RICH PAINT.

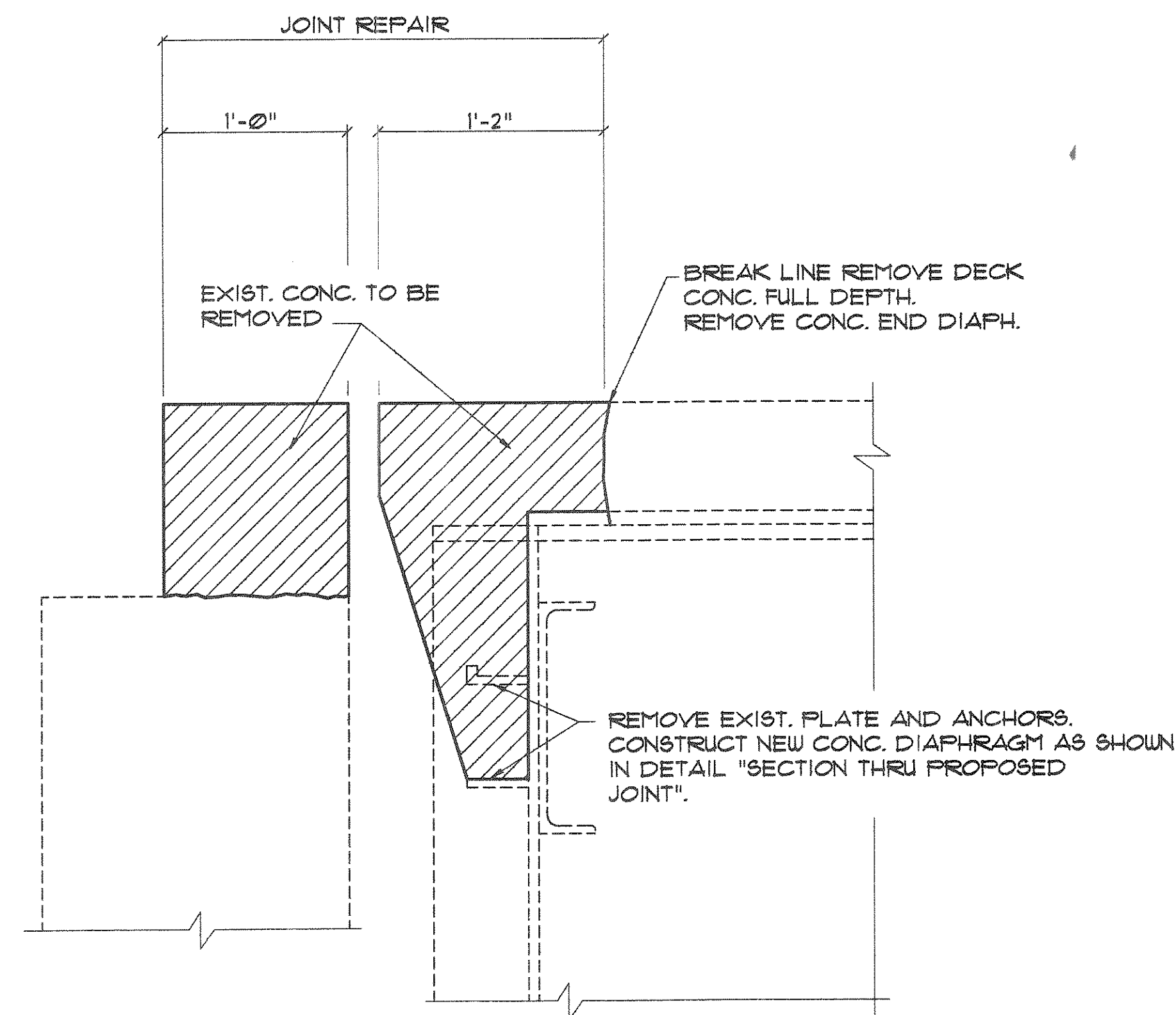
FABRICATOR SHALL PROVIDE MEANS OF KEEPING PAINTED EXTRUSIONS CLEAN DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

MATERIAL FOR NO. ⑩ SHALL CONFORM TO ASTM A36. MATERIAL SHALL BE FLAME CUT OR SHEARED. REMOVE ALL SLAG OR SHEARED EDGES BY GRINDING TO A SMOOTH UNIFORM SQUARE SURFACE. PRIOR TO BENDING CHECK PLATE FOR FLATNESS TO WITHIN A TOLERANCE OF 1/16" IN ANY DIRECTION. BEND LINE MUST BE PERPENDICULAR TO PLATE GRAIN. SANDBLAST AFTER FABRICATION IN ACCORDANCE WITH SSPC SPEC. SP. 10 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING THE PLATE SHALL BE HOT DIPPED GALVANIZED.

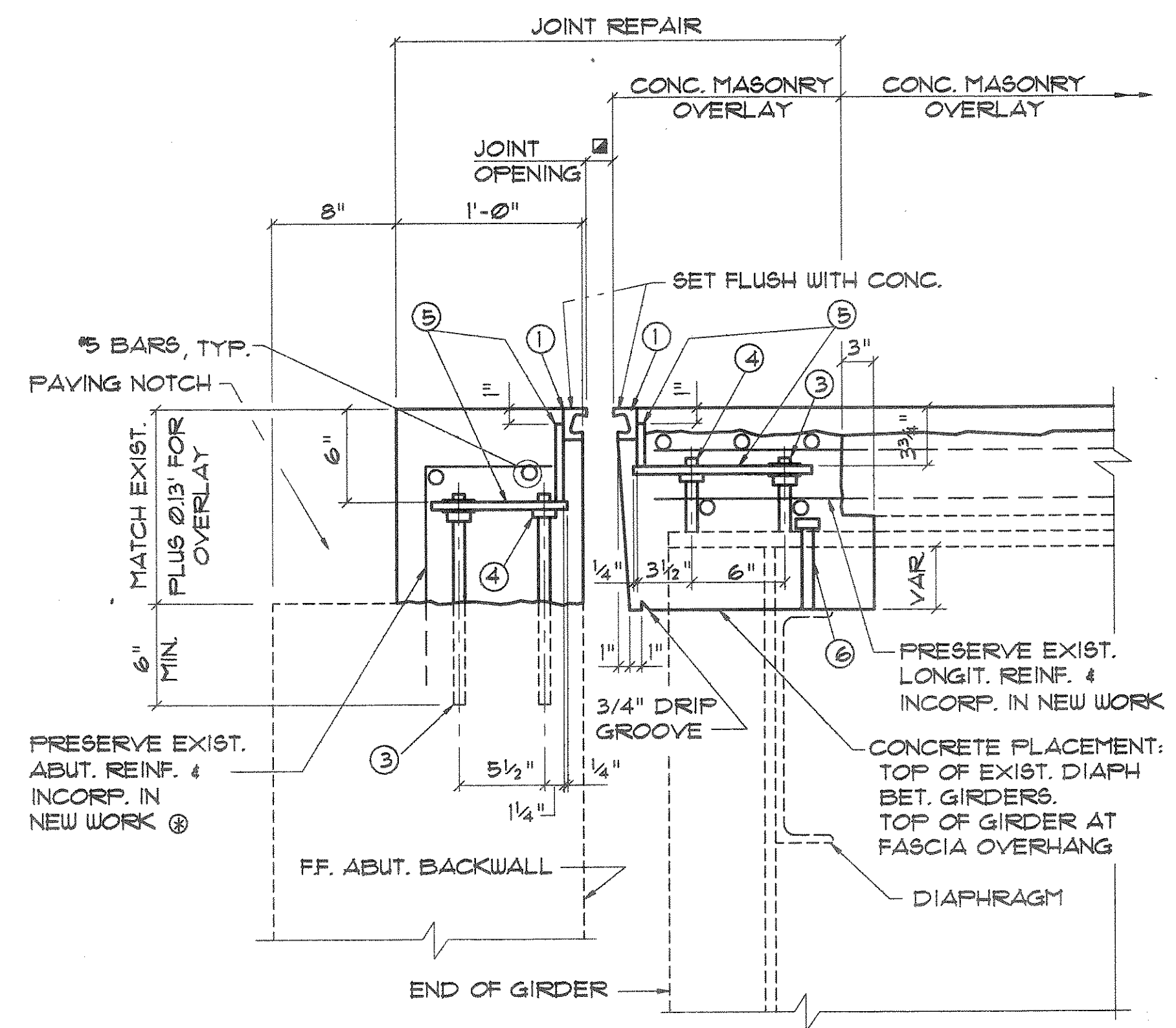
ANCHOR SYSTEM NO. ② & ③ SHALL CONFORM TO ASTM A307 & SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C & D 124 MILS. MIN.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS, GUARD PLATES, NEOPRENE STRIP SEAL & HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE".

MANUFACTURE SHALL FURNISH NEOPRENE STRIP SEAL WITH TOP SIDE LABELED.

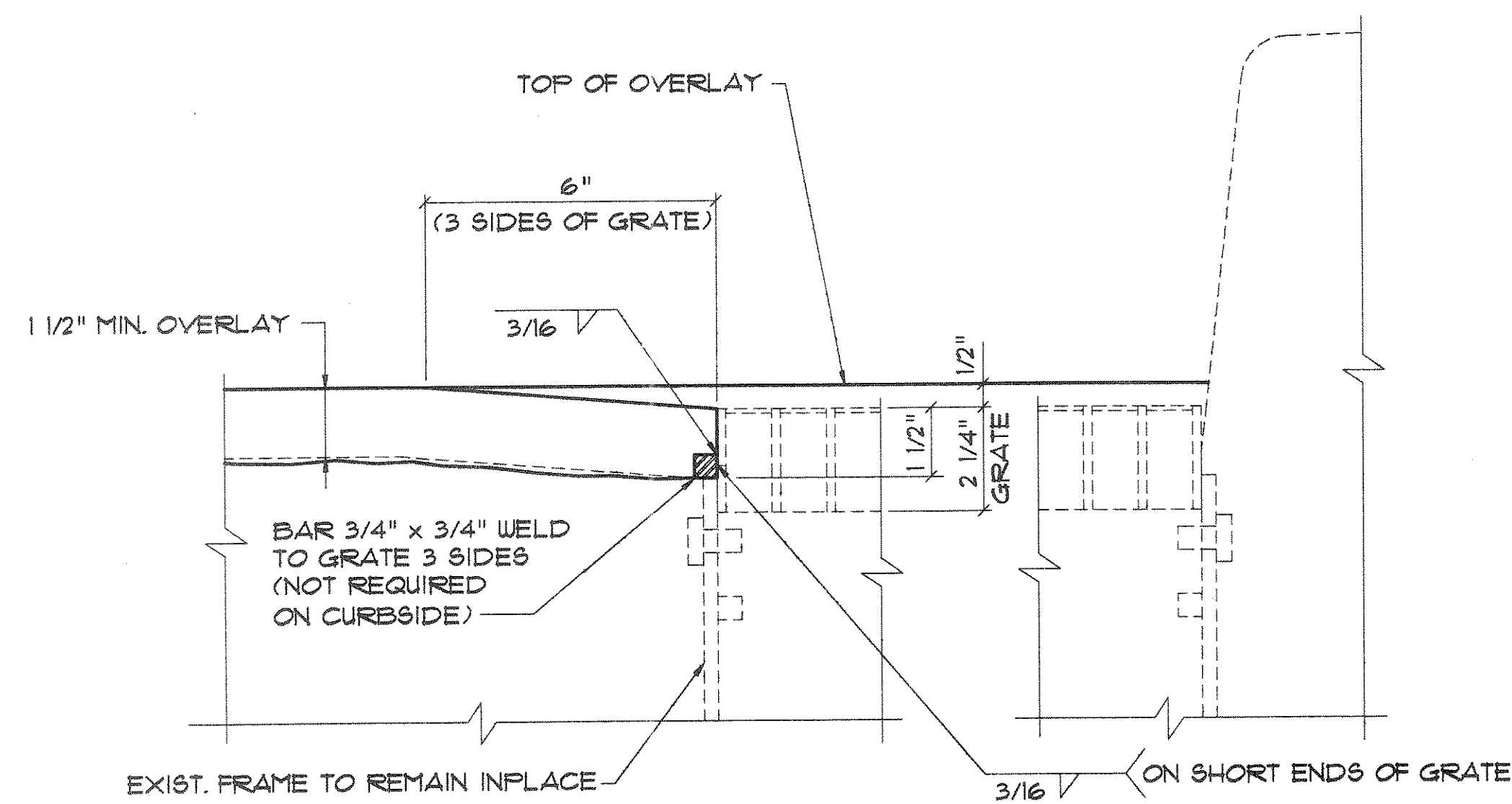


JOINT REMOVAL
(AT ROADWAY)



SECTION THRU PROPOSED JOINT
(AT ROADWAY)

- Ⓢ IF EXISTING BARS ARE SEVERLY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH "CONCRETE MASONRY ANCHORS, TYPE S, 5/8-INCH", EMBEDDED 1'-0". USE L-SHAPED NO. 5 COATED REBAR.
- Ⓣ SEE TEMPERATURE TABLE.



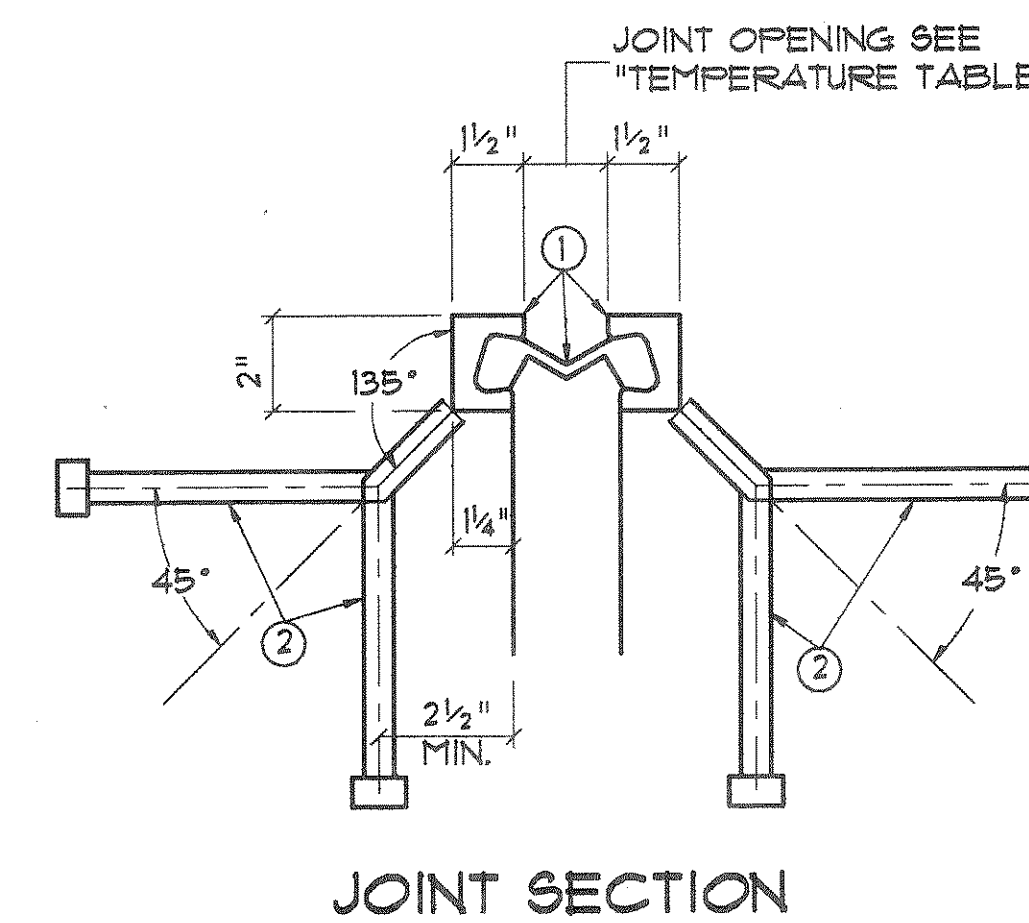
DECK DRAIN MODIFICATION

NOTE:
PLACE MODIFIED GRATE ON EXIST. FRAME BEFORE PLACEMENT OF OVERLAY. GRATE WILL BECOME PERMENANT AND NOT REMOVEABLE

TEMPERATURE TABLE

TEMP. *	JOINT OPENING
30 °	1 3/8"
40 °	1 1/2"
50 °	1 5/8"
60 °	1 3/4"
70 °	1 15/16"
80 °	2 1/16"
90 °	2 1/4"

* SHADED UNDERSIDE DECK TEMPERATURE (°F)



JOINT SECTION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
STRUCTURE B-35-15			
CONST. SPEC.	1989	DRAWN BY DLF	PLANS CK'D. JAU
DETAILS			SHEET 2 OF 2