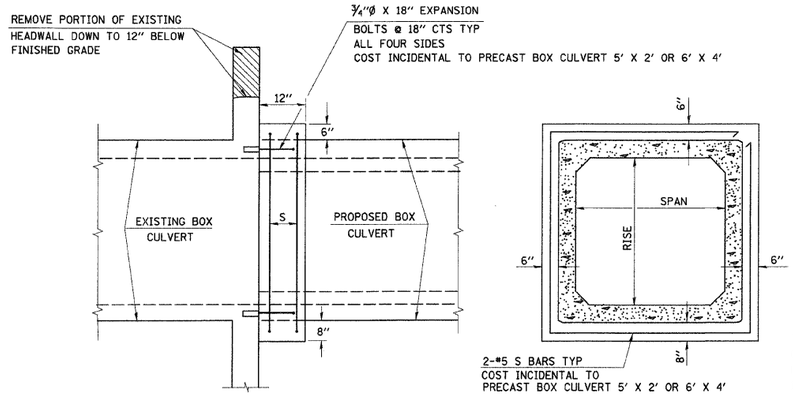
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70	*	MADISON	420	158
STA.		TO STA.		
CONTRACT NO.: 76790				

• 60-10K-1, 60-10HB

PLAN
SURVEYED
DRAWN
ALIGNMENT CHECKED
PLANS PREPARED
NOTE BOOK
NO.
CADD FILE NAME
BY
DATE



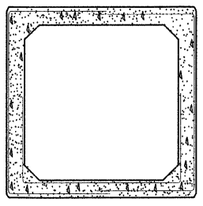
SIDE VIEW

END VIEW

SPAN X RISE	CL SI CONCRETE CU YD (EST)
5' X 2'	0.41
6' X 4'	0.54

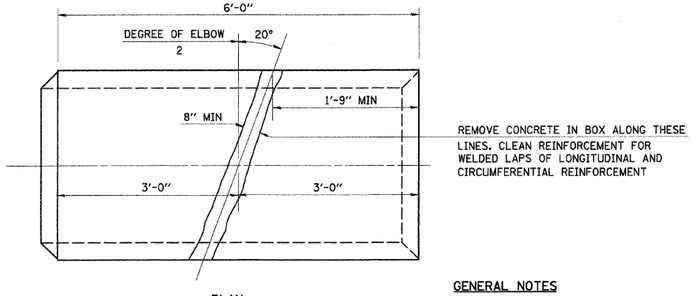
THE CONCRETE COLLAR AS DETAIL AND REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALL AND WINGWALLS AS MAY BE REQUIRED ARE INCIDENTAL TO PRECAST CONCRETE BOX CULVERT 5' X 2' OR 6' X 4'. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

DETAILS OF CONCRETE COLLAR FOR PRECAST BOX CULVERT

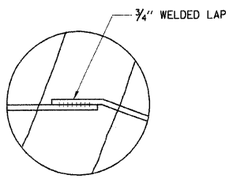


STANDARD REINFORCEMENT

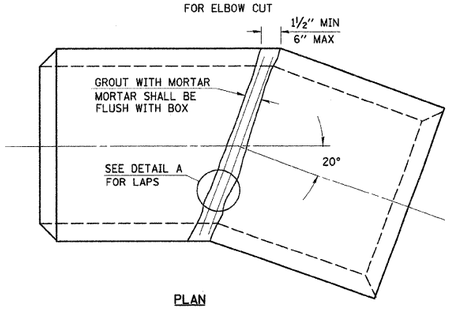
TRANSVERSE SECTION



PLAN
FOR ELBOW CUT



DETAIL A



PLAN

GENERAL NOTES

REINFORCED CONCRETE BOX CULVERT SHALL CONFORM TO AASHTO M-259 AND ASTM C 783.

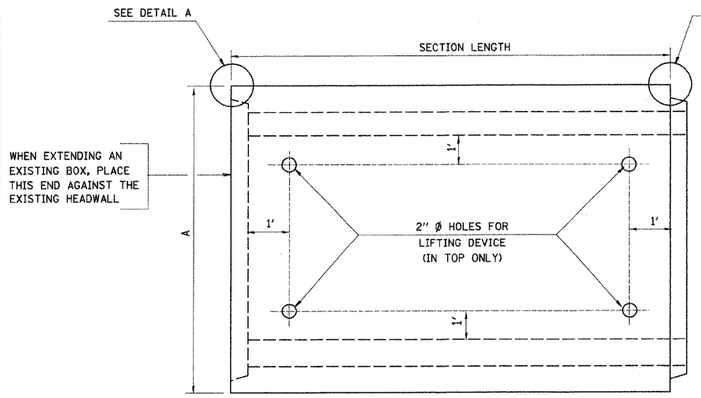
ADDITIONAL REINFORCEMENT SHALL CONFORM TO AASHTO M-31 OR M-53 GRADE 60

CEMENT MORTAR WITH BONDING AGENT SHALL BE APPROVED BY THE ENGINEER.

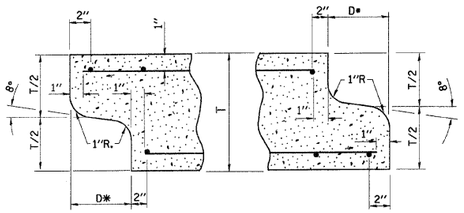
DEGREE OF ELBOW AND CULVERT SIZE REQUIRED SHALL BE AS INDICATED ON THE PLAN DETAIL FOR EACH INDIVIDUAL INSTALLATION.

THE CONCRETE ELBOW AS DETAILED IS INCIDENTAL TO PRECAST CONCRETE BOX CULVERT, 5' x 2'

PRECAST CONCRETE BOX CULVERT ELBOW 5'x2' DETAIL



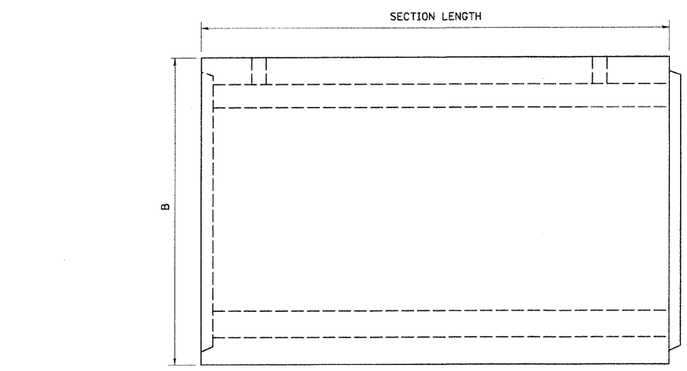
PLAN
LOCATION OF LIFTING HOLES MAY BE VARIED AS NEEDED TO CLEAR REINFORCEMENT.



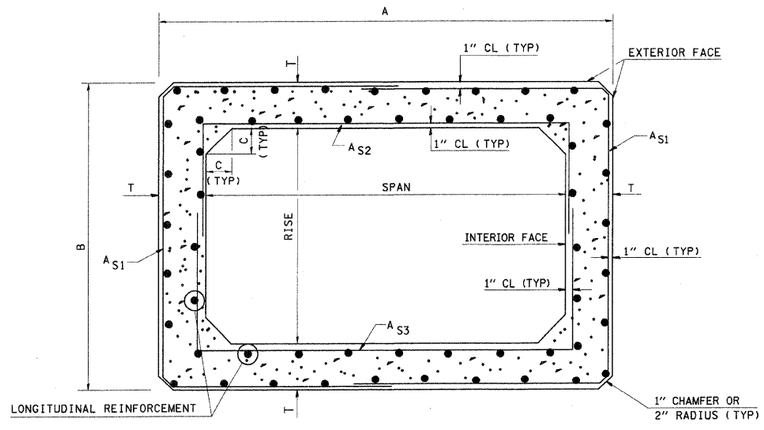
DETAIL A (TYP. INLET END) DETAIL B (TYP. OUTLET END)

NOTE: INLET AND OUTLET ENDS SHALL BE COMPATIBLE

*THE D DIMENSION SHALL CONFORM TO THE MANUFACTURER'S STANDARDS.



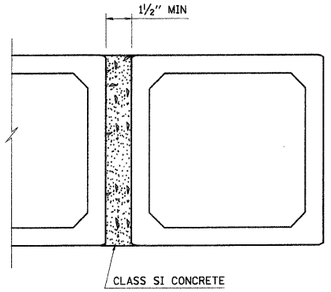
ELEVATION



CROSS SECTION

DETAIL OF PRECAST CONCRETE BOX CULVERT SECTION

(WITH COVER 2 FEET OR GREATER
ASTM DESIGNATION C-789)
DESIGN LOADING: HS-20-44



MULTIPLE UNIT PLACEMENT

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04(A) OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 755.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.

THE TERMS AS1, AS2, AND AS3 DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN ASTM C 789. REINFORCEMENT SHALL BE OF WELDED WIRE FABRIC CONFORMING TO ASTM SPECIFICATIONS S 185.

DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.12 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.

DIMENSIONS

SPAN X RISE	T (INCHES)	A (FT-IN)	B (FT-IN)	C (INCHES)
5' x 2'	6"	6'-0"	3'-0"	6"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS

FAI ROUTE 70
SECTION 60-10K-1, 60-10HB
MADISON COUNTY

DRAWN BY:

PLOT DATE: •DATE-TIME•

•DATE-TIME•
•DGN-SPEC•
•REF•
•REF•