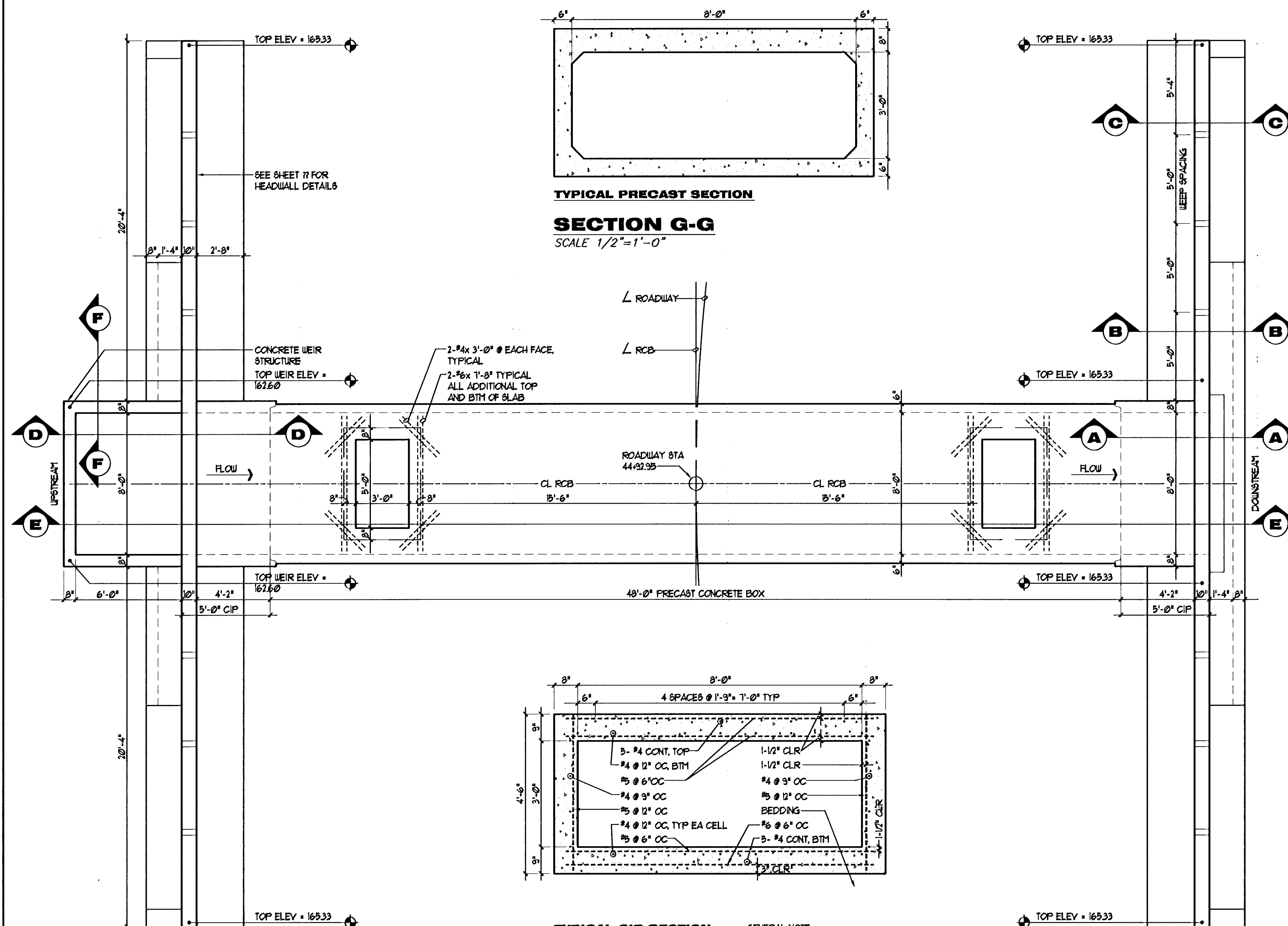
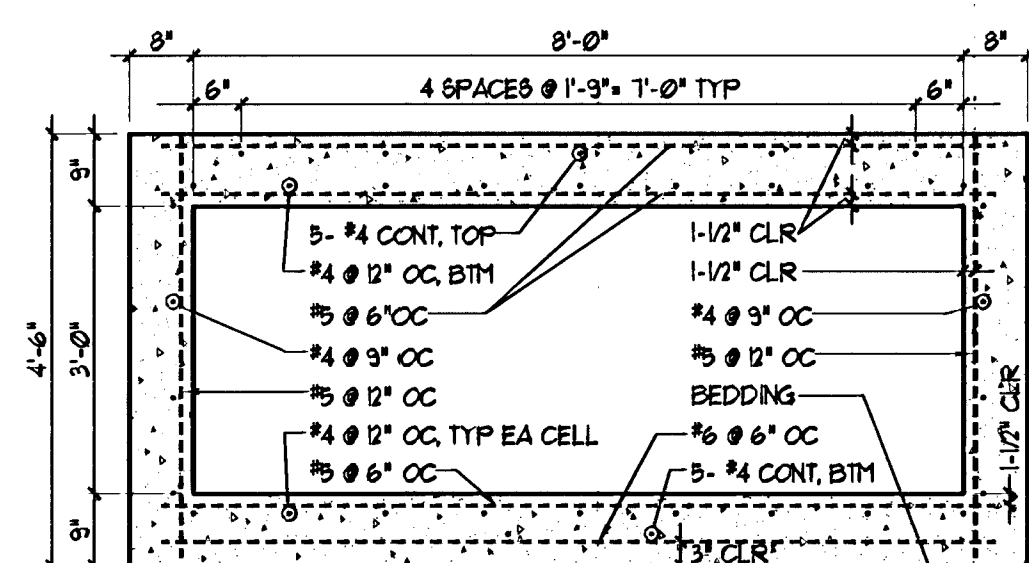


SECTION E-E : HEADWALL / RCB
SCALE 3/8"=1'-0"



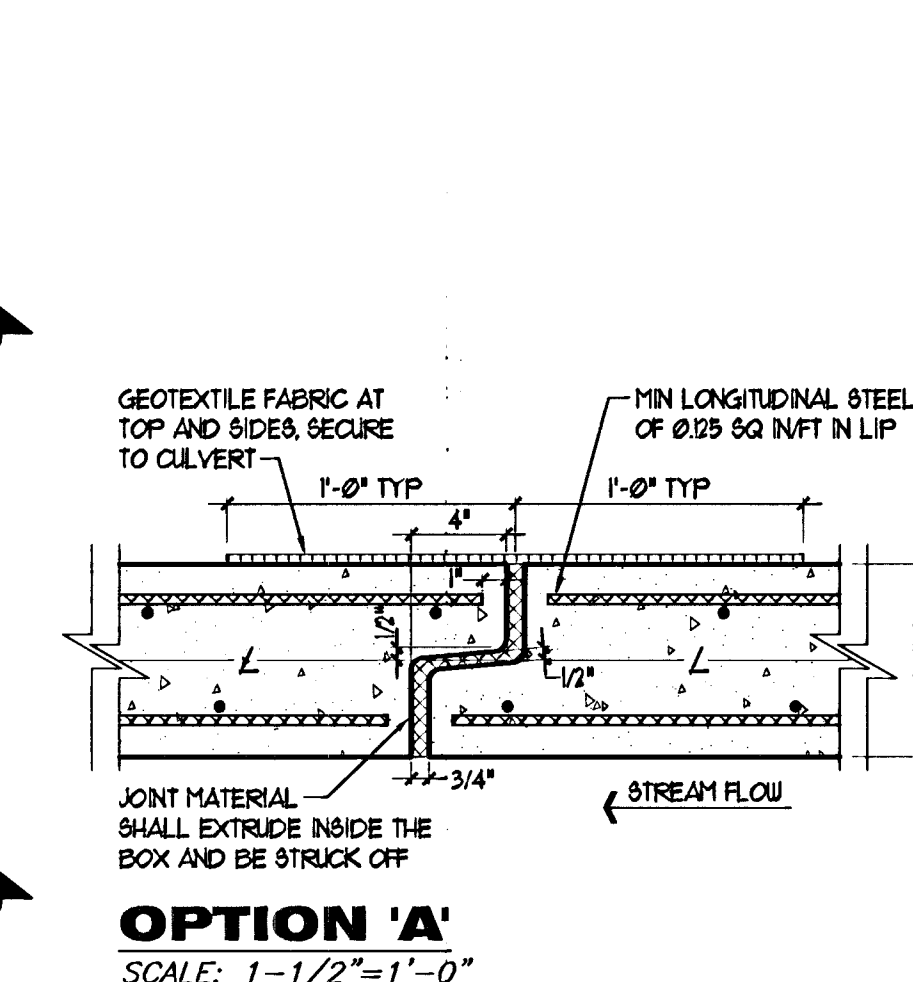
TYPICAL PRECAST SECTION
SECTION G-G
SCALE 1/2"=1'-0"

PLAN : HEADWALL / RCB
SCALE 1/4"=1'-0"

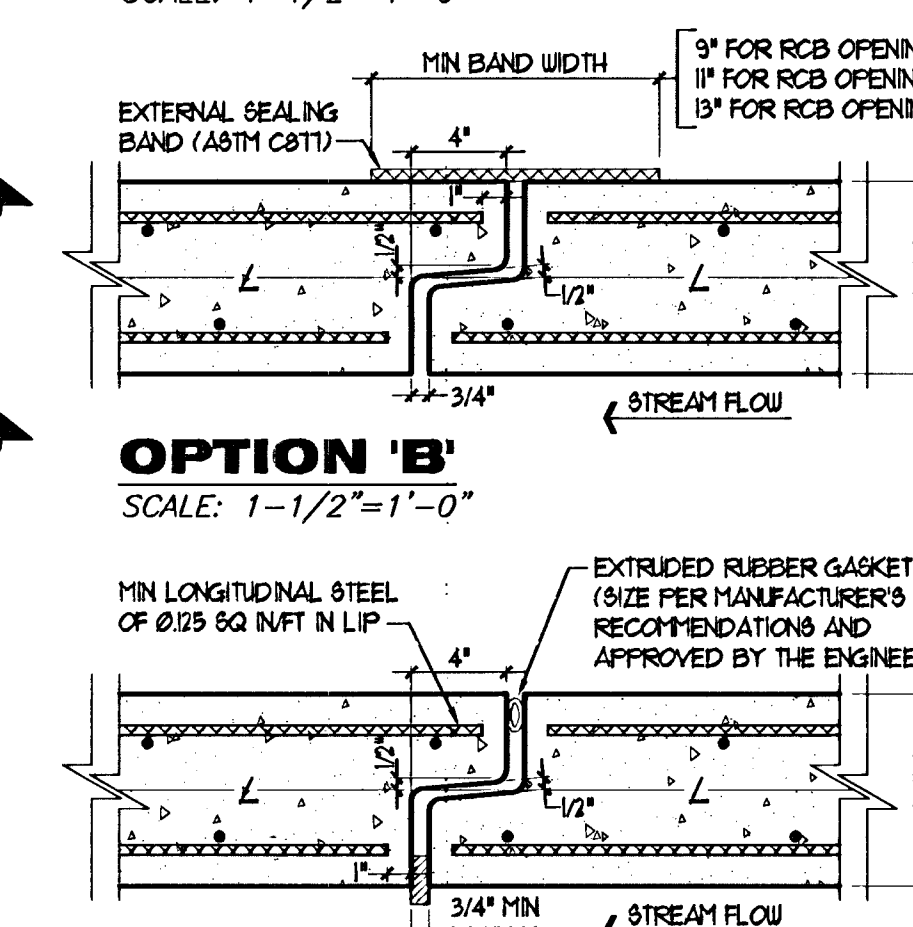


TYPICAL CIP SECTION
SECTION H-H
SCALE 1/2"=1'-0"

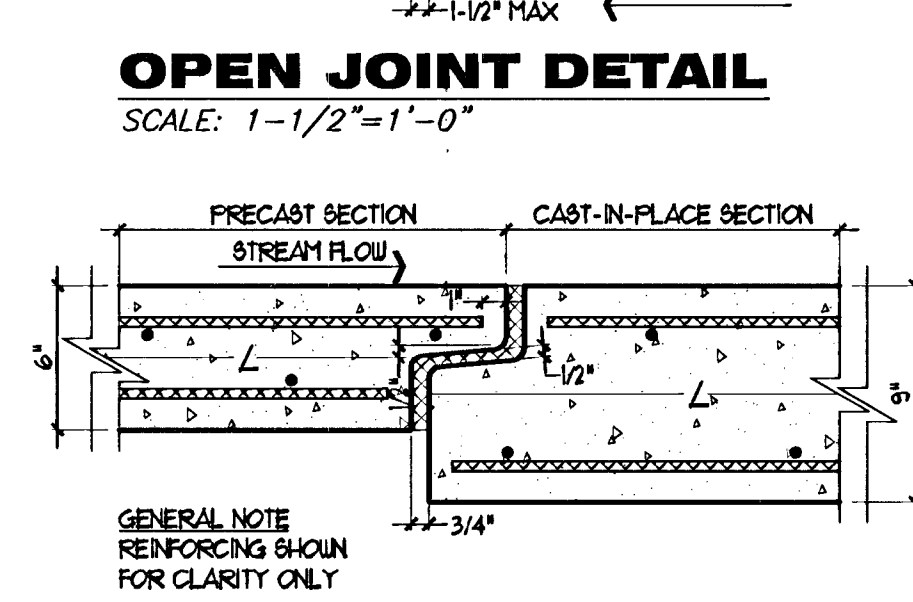
GENERAL NOTE
ALL LONGITUDINAL #4 BARS
SHALL BE LAPPED A MIN OF 12"



OPTION 'A'
SCALE: 1-1/2"=1'-0"

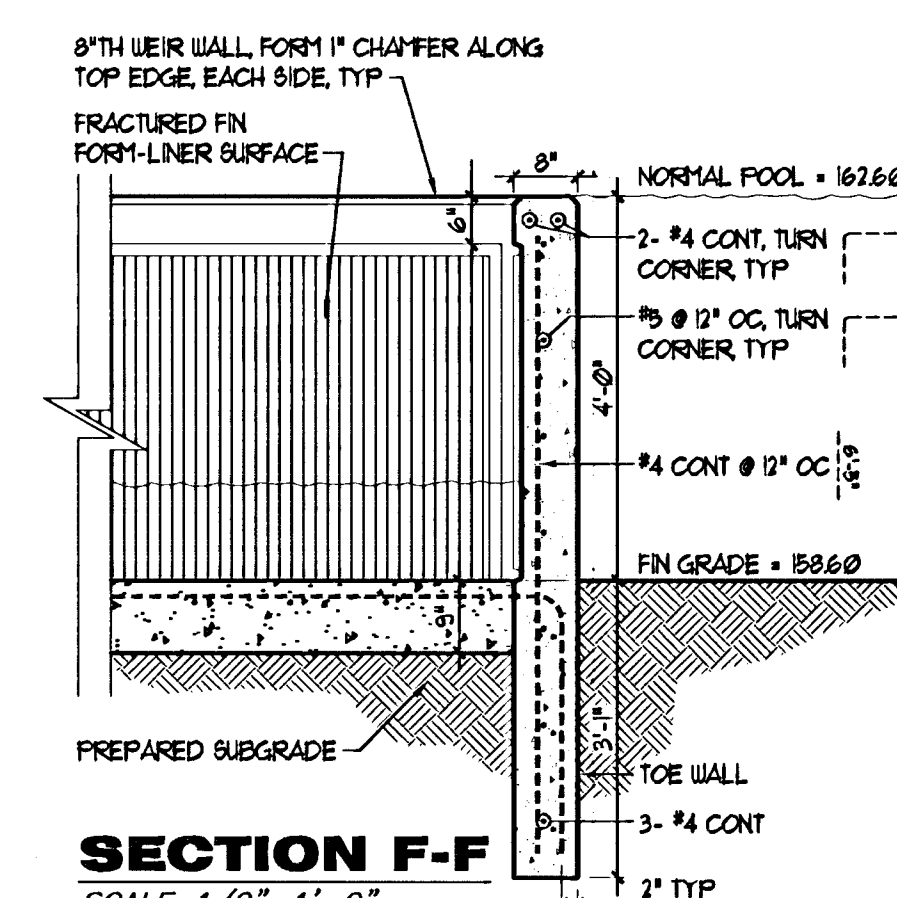


OPTION 'B'
SCALE: 1-1/2"=1'-0"

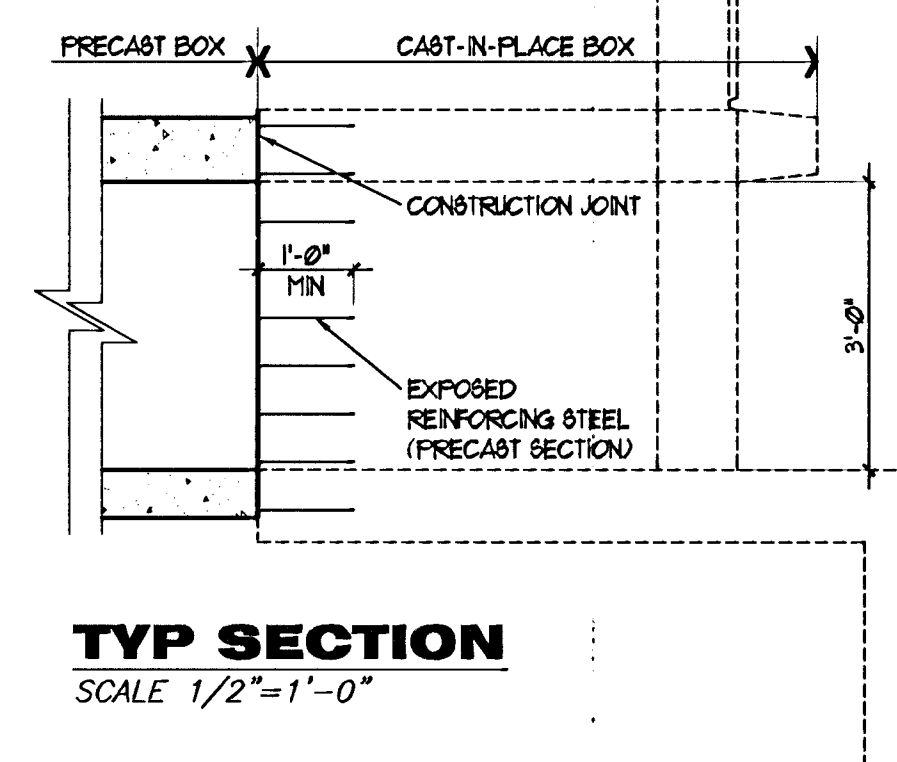


OPEN JOINT DETAIL
SCALE: 1-1/2"=1'-0"

PRECAST TO CIP JOINT
SCALE: 1-1/2"=1'-0"



SECTION F-F
SCALE 1/2"=1'-0"



TYP SECTION
SCALE 1/2"=1'-0"

GENERAL NOTES

PRECAST BOX CULVERTS
IF PRECAST BOX CULVERTS ARE SPECIFIED, THEY SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN IN THE PLANS ACCORDING TO THE REQUIREMENTS SHOWN ON THIS SHEET. WHEN APPROVED BY THE ENGINEER, PRECAST BOX CULVERTS MAY BE CONSTRUCTED IN LIEU OF CAST-IN-PLACE BOX CULVERTS. WHEN THE PRECAST OPTION IS CHOSEN BY THE CONTRACTOR, THE CAST-IN-PLACE QUANTITIES SHALL BE USED AS THE BASIS OF PAYMENT WHICH SHALL INCLUDE LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION.

UNLESS OTHERWISE APPROVED BY THE ENGINEER, CAST-IN-PLACE COLLARS SHALL BE REQUIRED AT HORIZONTAL AND VERTICAL CHANGES IN RCB ALIGNMENT. CAST-IN-PLACE END SECTIONS AND WINGWALLS ARE REQUIRED EXCEPT AS NOTED ON THIS SHEET. CAST-IN-PLACE SECTIONS MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER AT JUNCTIONS OF DRAINAGE STRUCTURES.

CAST-IN-PLACE CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE KDOT SPECIFICATIONS AND KDOT'S GUIDELINES FOR STRUCTURAL DESIGN AND DETAIL OF REINFORCED CONCRETE BOX CULVERTS. CLASS AAA (AE) CONCRETE AND GRADE 60 REINFORCING STEEL SHALL BE USED FOR THE CAST-IN-PLACE CONSTRUCTION.

SPECIFICATIONS
SINGLE-CELL PRECAST CONCRETE BOX CULVERTS SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS EXCEPT AS NOTED IN THE KDOT SPECIFICATIONS. MULTIPLE-CELL PRECAST BOXES SHALL BE DESIGNED IN ACCORDANCE WITH THE CRITERIA USED TO DEVELOP THE SINGLE-CELL PRECAST BOXES (SEE THE LATEST AASHTO SPECIFICATIONS).

CONDITION	MIN FILL	AASHTO	EQUIV. AASHTO
2-FT OR MORE FILL	2-FT	M25A, TABLE 2	C125A, TABLE 2
LESS THAN 2-FT FILL	0-FT	M213, TABLE 2	C250, TABLE 2

FABRICATIONS
PRIOR TO FABRICATION THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL DETAIL ALL PHASES OF CONSTRUCTION INCLUDING LAYOUT, JOINT DETAILS, LIFTING DEVICES, CASTING METHODS, CONSTRUCTION PLACEMENT AND DETAILS OF ANY CAST-IN-PLACE SEGMENTS OR TRANSITIONS THAT MAY BE REQUIRED. COPIES OF OVERHEIGHT AND OVERLOAD PERMITS, WHEN REQUIRED SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.

PRECAST CONCRETE BOX CULVERT SHALL BE LAID WITH THE GROOVE END OF EACH SECTION UPSTREAM AND THE SECTIONS SHALL BE TIGHTLY JOINED. JOINT SHALL BE SEALED WITH AN APPROVED BITUMINOUS MASTIC MATERIAL AND GEOTEXTILE OR SEALING BOND OR AN EXTRUDED RUBBER GASKET, INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. LIFTING HOLES SHALL BE PLUGGED WITH A PRECAST PLUG SEALED AND COVERED WITH MASTIC OR MORTAR.

THE FOLLOWING INFORMATION SHALL BE LEGIBLY MARKED ON AN INSIDE FACE OF EACH BOX SECTION BY WATERPROOF PAINT OR OTHER APPROVED MEANS:

- DATE OF MANUFACTURE
- NAME OR TRADEMARK AND LOCATION OF THE MANUFACTURER
- WEIGHT OF BOX SECTION IN TONS
- PRICE MARK
- THE TOP OF THE BOX

CONSTRUCTION REQUIREMENTS
FOUNDATION PREPARATION SHALL BE IN ACCORDANCE WITH KDOT SPECIFICATIONS EXCEPT THAT A MINIMUM 6 INCH THICKNESS OF CRUSHED STONE FOR BACKFILL OR 3 INCH SEAL COURSE SHALL BE PROVIDED. CHOICE OF BEDDING SHALL BE AT THE CONTRACTOR'S OPTION AND APPROVED BY THE ENGINEER.

LOADING
1600-44 AASHTO SPECIFICATIONS, 1996 EDITION
UNIT STRESSSES
CLASS AAA (AE) CONCRETE: $f_c = 4000$ PSI
REINFORCING STEEL: $f_y = 60000$ PSI

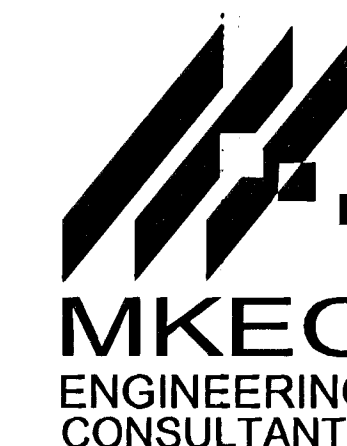
CONCRETE
CLASS AAA (AE) CONCRETE SHALL BE USED THROUGHOUT.
BEVEL ALL EXPOSED EDGES WITH A 3/4" TRIANGULAR MOUNDING.

REINFORCING
ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60.
ALL DIMENSIONS RELATIVE TO REINFORCING STEEL SHALL BE TO CENTERLINE OF BAR UNLESS OTHERWISE NOTED.

EXCAVATION
EXCAVATION FOR CULVERT SHALL NOT BE PAID FOR DIRECTLY
BUT SHALL BE SUBSIDIARY TO BOX CONSTRUCTION.

STRIKE LINE
WINGWALLS AND THAT PORTION OF THE RCB OUTSIDE THE STRIKE LINE SHALL BE CONSTRUCTED LEVEL. FOOTING FOR WINGWALLS SHALL BE CONSTRUCTED WITH THE CULVERT FLOOR.

G:\CIVIL\99118\DWG\PAV\RCB\99118STRUCT_1



FOX RIDGE ADDITION
ENTRY PAVING - PHASE 1
PROJECT NAME

RCB DETAILS
SHEET TITLE

MKEC	KLK	MKEC
DESIGN BY:	DRAWN BY:	CHECKED BY:
JULY, 2003	9901011118	12 / 25
DATE	JOB NO.	SHEET/OF