

DESIGN DESIGNATION

Current ADT (1983) = 1550
Design Year ADT (2003) = 2200
D.H.V. = 225
D (Directional Distribution) = 50%
T (Trucks) = 6%
V (Design Speed) = 40 MPH

MICROFILMED
MAY 3 0 1985

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
RIC-314-1.72
SPRINGFIELD TOWNSHIP
RICHLAND COUNTY

BRS-451(4)

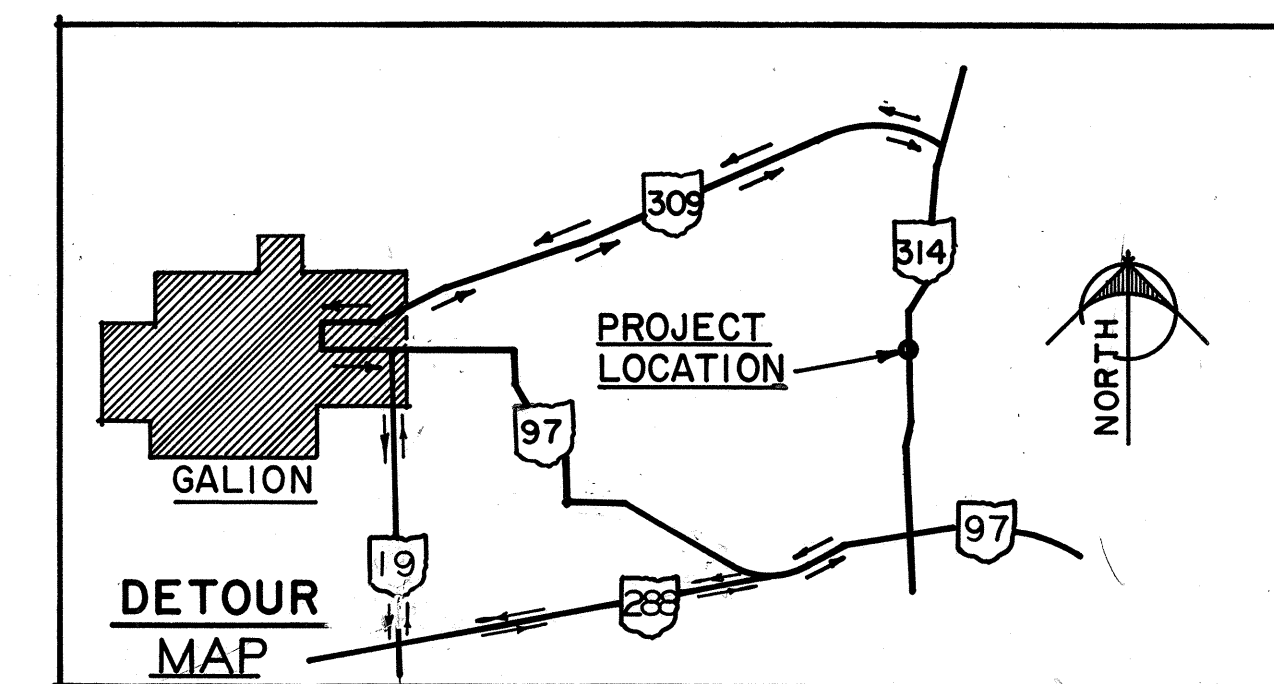
RIC-314-1.72

BRS-451(4)

OHIO

FHWA
REGION 5FEDERAL
PROJECT

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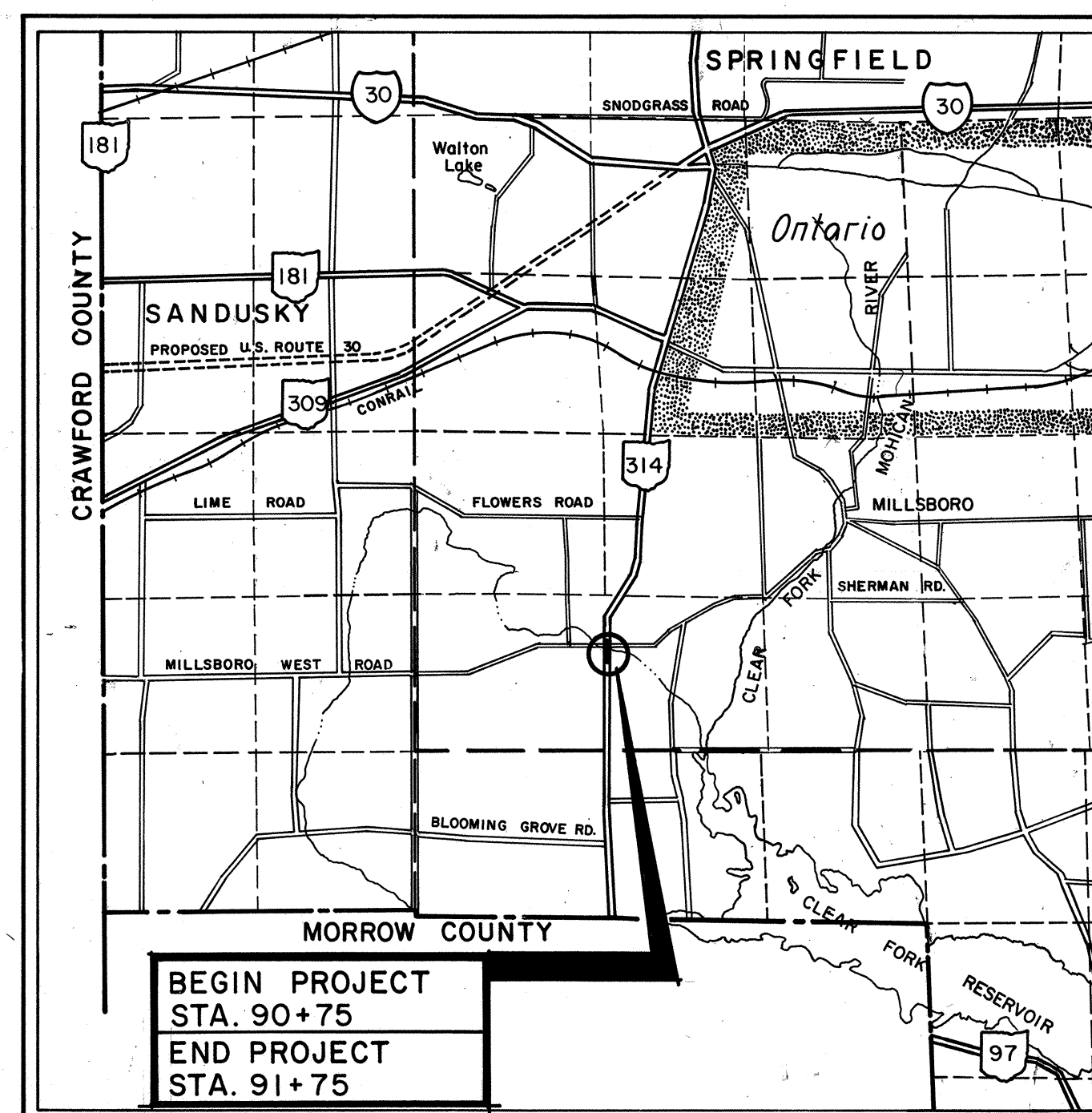


CONVENTIONAL SIGNS

County Line ----- Limited Access (only) ----- LA -----
Township Line ----- Right of Way (only) ----- RW -----
Section Line ----- Limited Access & Right of Way ----- LA & RW -----
Corporation Line ----- or ----- Existing Right of Way -----
Fence Line (existing) ----- (proposed) ----- Property Line ----- (in existing fence) -----
Center Line ----- Railroad ----- or -----
Trees, Stumps, (to be removed) ----- Guardrail (existing) ----- (proposed) -----
Utility Poles: Telephone, Power, Light

INDEX OF SHEETS

TITLE SHEET	1
PAVEMENT CALCULATIONS AND TYPICAL SECTION	2
GENERAL NOTES	3
TEMPORARY PAVEMENT MARKINGS	4
GENERAL SUMMARY	5
PLAN AND PROFILE	6
CROSS SECTIONS (ROADWAY)	7
CROSS SECTIONS (STREAM)	8, 9
SITE PLAN	10
CULVERT DETAILS	11, 12
RIGHT OF WAY PLAN	13
STRUCTURE FOUNDATION INVESTIGATION	



LINE DATA

Begin Project Sta. 90+75
End Project Sta. 91+75
Length of Project 100 Lin. ft. or 0.019 Miles

Add for Work
Sta. 90+00 to Sta. 90+75 +75 Lin. Ft.
Sta. 91+75 to Sta. 92+30 +55 Lin. Ft.
Length of Work 230 Lin. Ft. or 0.044 Miles

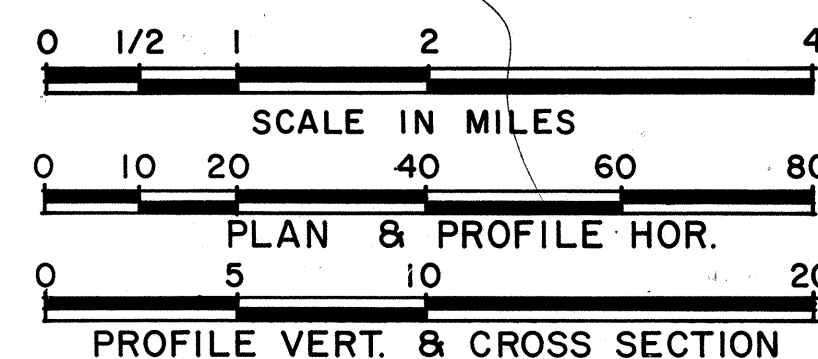
Plan Prepared By:

KARL R. ROHRER ASSOC. INC.
3810 RIDGEWOOD ROAD
AKRON, OHIO

UNDERGROUND UTILITIES

48 HOURS
BEFORE YOU DIG
Call 800-362-2764 (Toll free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

LOCATION MAP



SUPPLEMENTAL SPECIFICATIONS	
803	5-27-83
955	6-3-78

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS	
BP-5	7-16-81
GR-1	2-5-82
GR-2B	2-5-82
GR-4	2-5-82
MC-4	7-26-76
MC-10	5-1-76

1983 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway and that detours will be provided, as indicated on the plans.

Approved: *Gary M. Pines*
Date: *11/10/84* District Deputy Director of Transportation

Approved: *Walter J. Justinger acting*
Date: *2-8-84* Engineer, Bureau of Bridges and Structural Design

Approved: *Wayne H. Kauble*
Date: *4-11-84* Chief Engineer, Planning and Design

Approved: *Wayne J. Smith*
Date: *4-11-84* Director, Department of Transportation

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR

DATE

Project: RIC-314-1.72

Date of letting: 1984 Contract No.:

MICROFILMED
MAY 3 0 1985

EAST HEADWALL (OUTLET)
STA. 91+00.99 ~ 26' FT.
WEST HEADWALL (INLET)
STA. 91+35.83 ~ 20.5' FT.

TWIN 10'x5' PRECAST
CONC. BOX CULVERT

PROP. 12" CONDUIT
INV. ELEV. 1237.1
(WEST HEADWALL
ONLY)

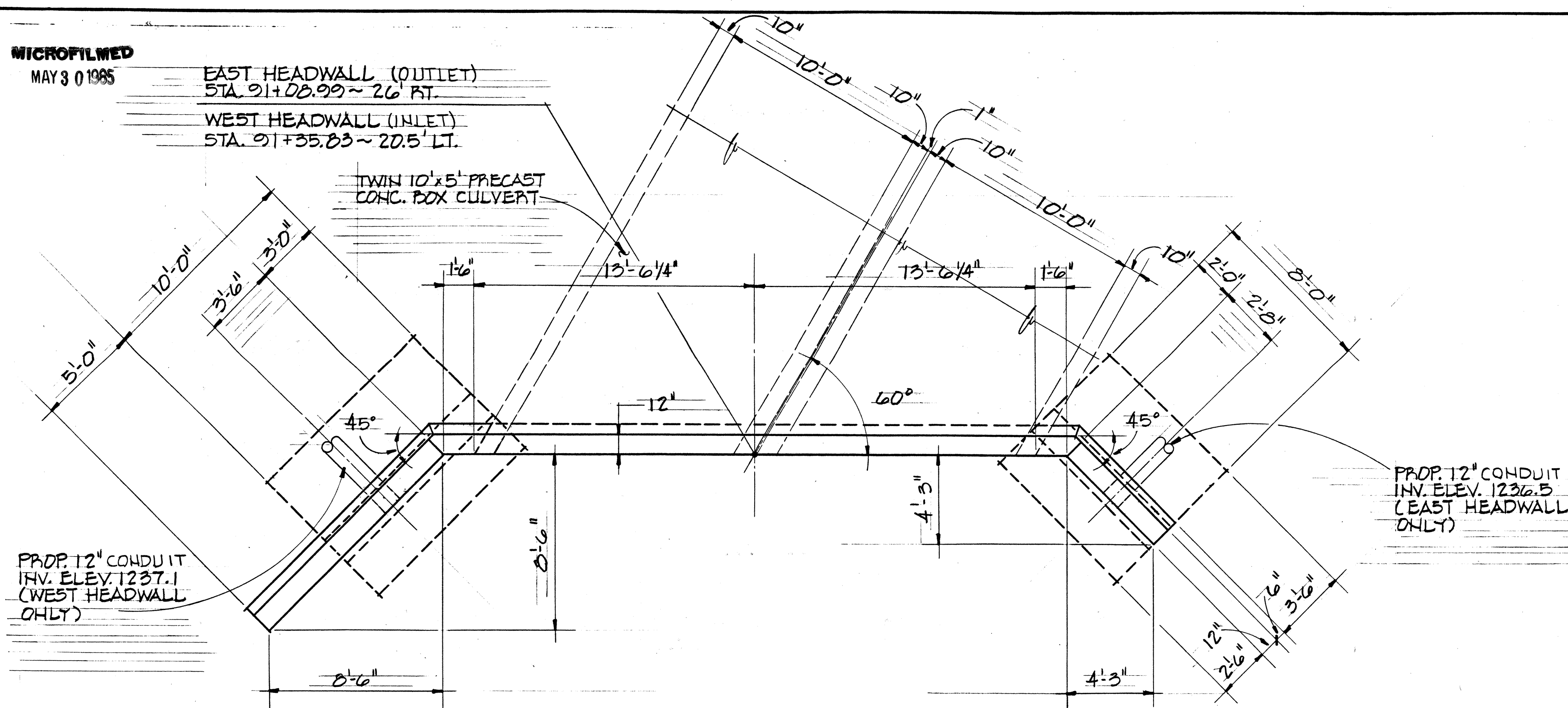
PROP. 12" CONDUIT
INV. ELEV. 1236.5
(EAST HEADWALL
ONLY)

Calcu. By CB Date 12-16-83
Check By JFS Date 12-16-83

FHWA REGION	STATE	PROJECT
5	OHIO	

11
13

RIC - 314-1.72



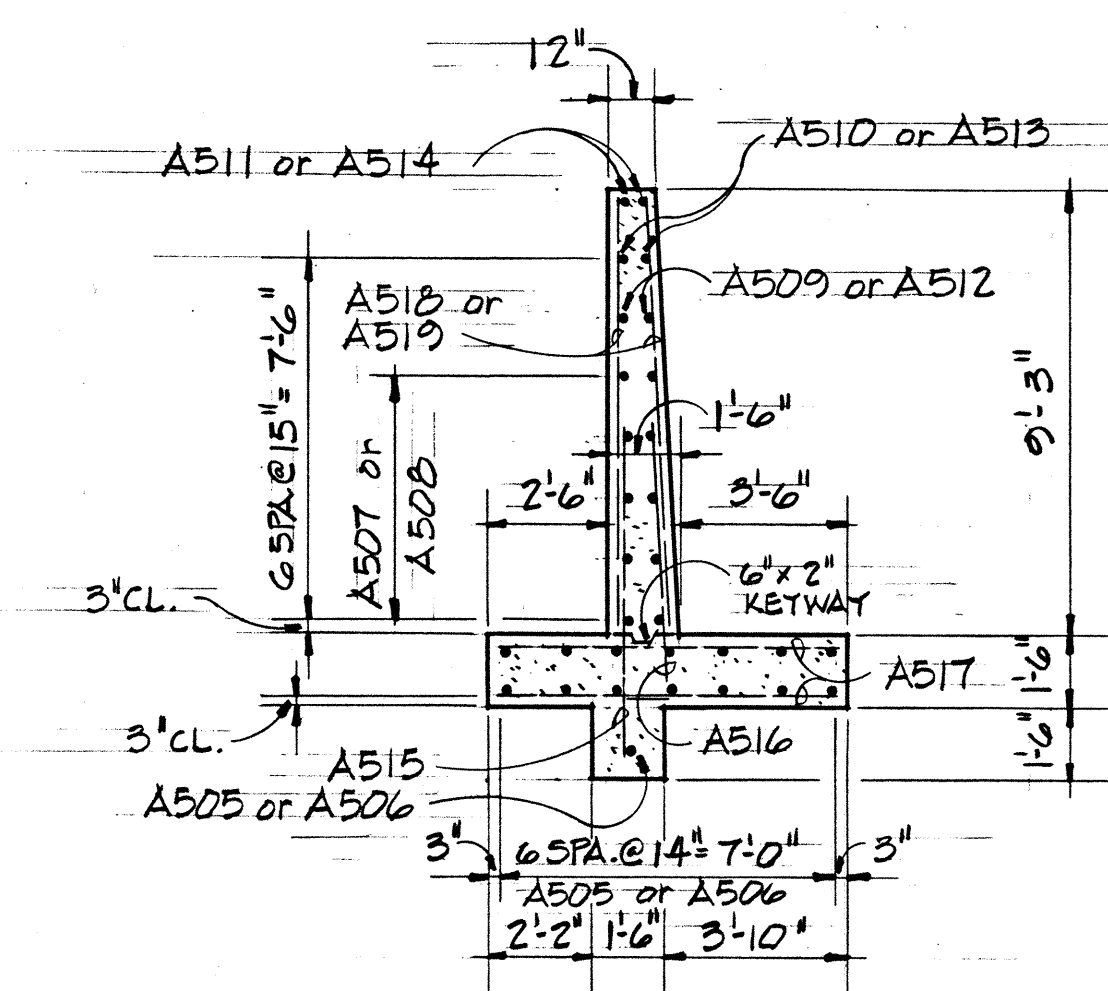
PLAN

WEST HEADWALL (INLET)

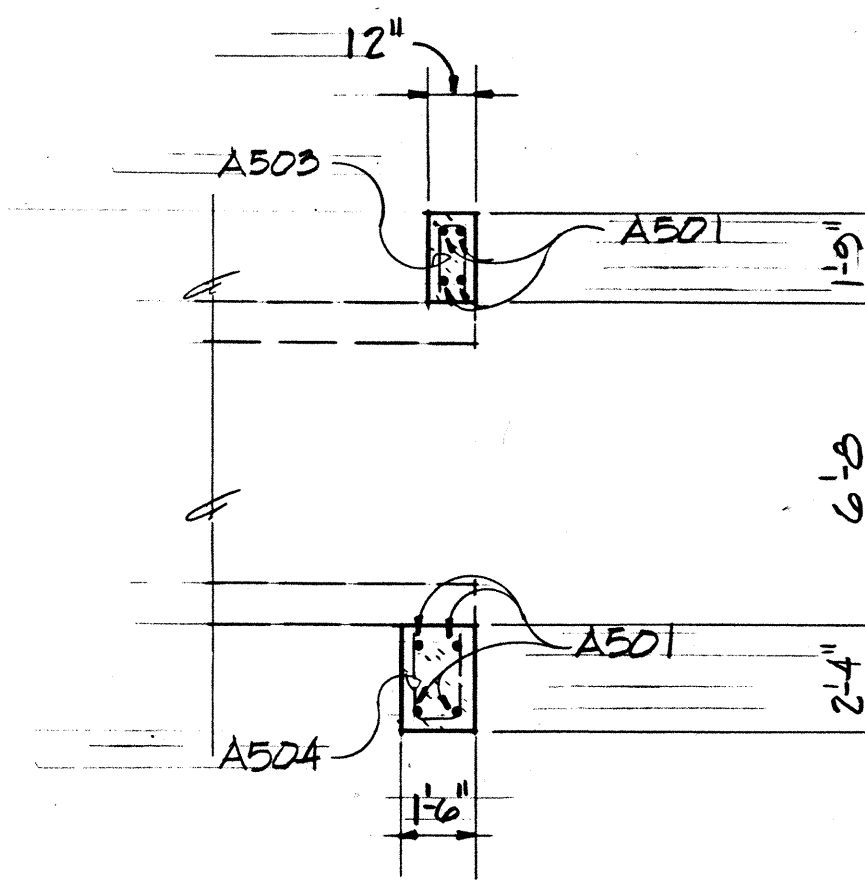
EAST HEADWALL (OUTLET)

NORTH

NORTH

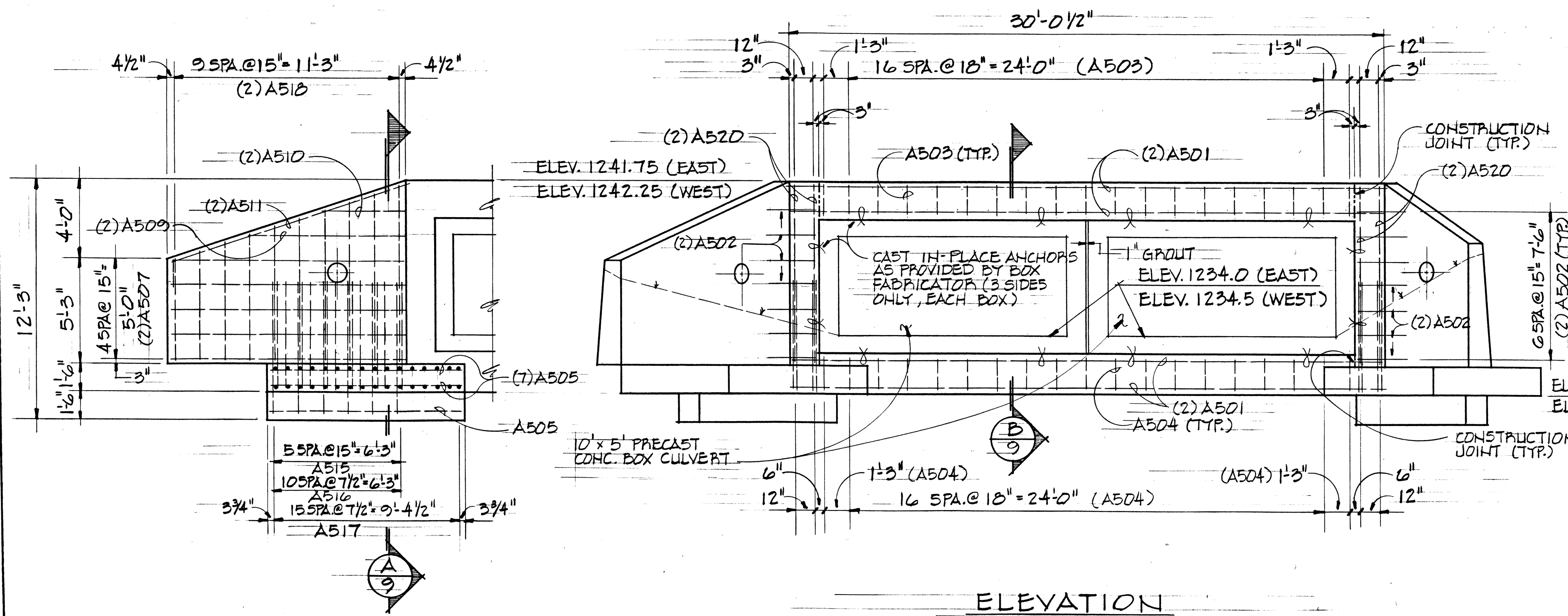


SECTION A
9

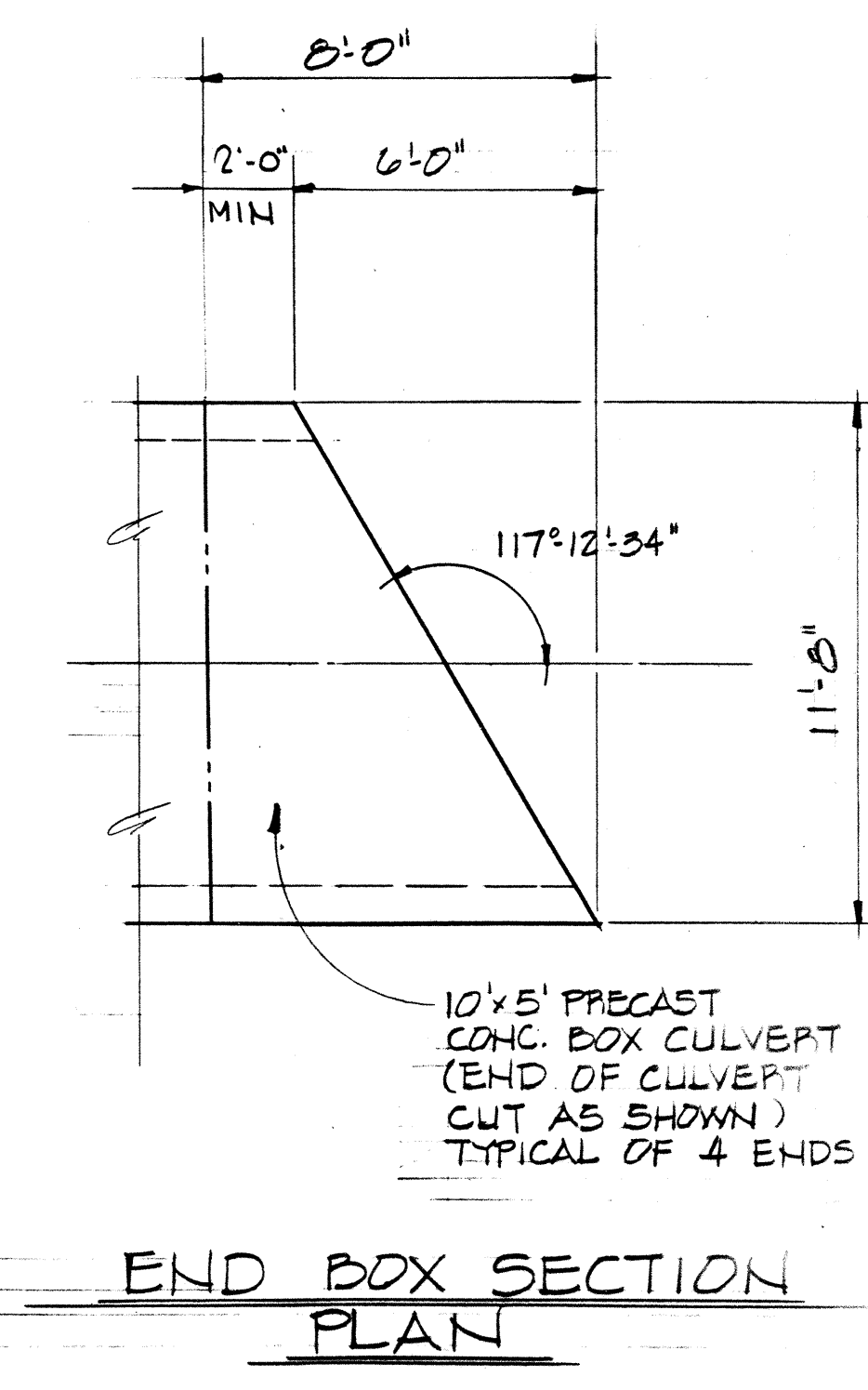
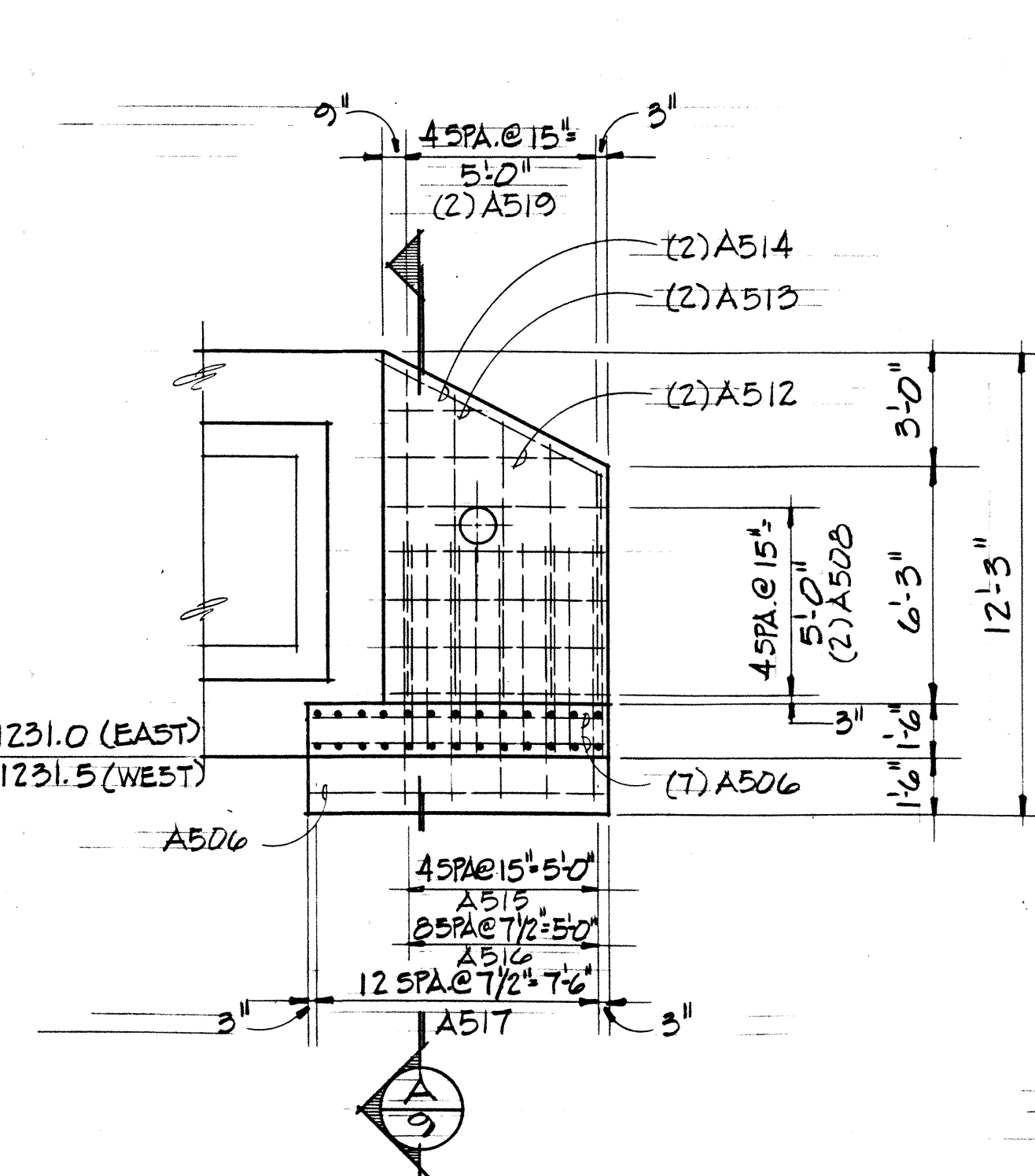


SECTION B
9

NOTE: END SECTION MUST BE CUT FROM
PRECAST SECTIONS WITH A MINIMUM
LENGTH OF 8'-0" OR CONSIST OF
A CAST-IN-PLACE SECTION



ELEVATION



END BOX SECTION
PLAN

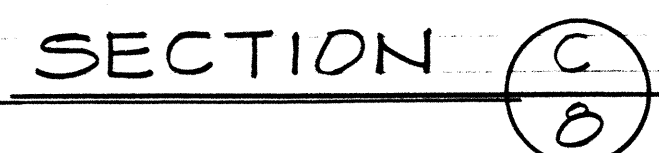
CULVERT DETAILS (1 of 2)

MAY 30 1985

[illegible]

REINFORCING STEEL SAMPLES :

REFER TO CMS SECTIONS 106.03, 700.700.01 THROUGH 700.05 AND 700.06. SUFFICIENT ADDITIONAL REINFORCING STEEL SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE REPLACED IN THE STRUCTURES BY THE ADDITIONAL STEEL, SPLICE IN ACCORDANCE WITH 500.03.



Calcu. By LBD Date 8-12-83
Check By JFS Date 8-12-83

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RIC - 314-1.72

PLAN NOTES
FOR
PRECAST REINFORCED CONCRETE BOX SECTIONS

DESCRIPTION:
THIS ITEM SHALL CONSIST OF FURNISHING AND CONSTRUCTING PRECAST REINFORCED CONCRETE BOX SECTIONS AS PER SUPPLEMENTAL SPECIFICATION 955 AT THE LOCATION INDICATED.

MATERIALS:
MATERIAL FOR THE PRECAST REINFORCED CONCRETE BOX SECTIONS SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 955. GRANULAR BEDDING AND BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF 603.02 AND FILL MATERIAL, WHEN SPECIFIED, SHALL BE IN ACCORDANCE WITH 203.

INSTALLATION:
THE STRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATIONS
FOR TYPE A CONDUIT IN SECTION 603 OF CONSTRUCTION AND MATERIAL
SPECIFICATIONS, STATE OF OHIO, DEPARTMENT OF TRANSPORTATION,
EXCEPT AS MODIFIED HEREIN.

603.03 SHALL BE MODIFIED AS FOLLOWS:
WHERE THE BOX SECTION IS TO BE PLACED IN A TRENCH, A MINIMUM
TRENCH WIDTH OF 2 FEET ON EACH SIDE OF THE BOX SECTION SHALL BE
REQUIRED. WHERE THE BOX SECTION IS TO BE PLACED WITHIN AN
EMBANKMENT OR THE BOX SECTION IS ABOVE THE EXISTING GROUND,
THE REQUIREMENT THAT THE EMBANKMENT SHALL BE CONSTRUCTED AT
LEAST TO THE SPRINGLINE BEFORE TRENCHING IS WAIVED.

603.04 SHALL BE REQUIRED AS FOLLOWS:
THE BEDDING SHALL CONSIST OF A BED OF GRANULAR MATERIAL HAVING
A THICKNESS OF AT LEAST 6 INCHES BELOW THE BOTTOM OF THE BOX
SECTION AND EXTENDING 2 FEET ON EACH SIDE OF THE BOX SECTION.

603.06 SHALL BE MODIFIED AS FOLLOWS:
THE JOINTS SHALL BE SEALED WITH A FLEXIBLE PLASTIC MATERIAL CONFORMING TO AASHTO M-198 TYPE B. THE CROSS SECTION OF THE JOINT SEALING MATERIAL SHALL HAVE A MINIMUM HEIGHT OF TWICE THE ANNULAR SPACE OF THE JOINT AND A MINIMUM WIDTH OF 150% THE HEIGHT. THE CONCRETE JOINT SHALL BE PRIMED WITH A PRIMER AS RECOMMENDED BY THE MANUFACTURER BEFORE INSTALLATION. BOX SECTIONS SHALL BE FORCED TO A MAXIMUM OF 1/2" GAP BETWEEN SECTIONS. THE EXTERIOR JOINT GAP ON THE TOP OF THE BOX SHALL BE FILLED WITH PORTLAND CEMENT MORTAR.

SHEAR CONNECTORS AS SPECIFIED AND ILLUSTRATED ON SUPPLEMENTAL SPECIFICATION 955 ARE NOT REQUIRED.

THE UPSTREAM END SHALL BE A RECESSED TYPE JOINT.

603.08 SHALL BE MODIFIED AS FOLLOWS:
WHEN THE TOP OF THE TRENCH IS ABOVE THE TOP OF THE BOX, BACK-FILLING SHALL BE IN ACCORDANCE WITH TYPE A OR TYPE B CONDUIT. WHEN THE TOP OF THE BOX SECTION IS ABOVE THE TOP OF THE TRENCH, GRANULAR MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM DEPTH OF 2 FEET OVER THE TOP OF THE BOX SECTIONS (WHERE APPLICABLE) AND FOR A WIDTH OF 4 FEET ON EACH SIDE OF THE BOX SECTION OR AS DIRECTED BY THE ENGINEER. THE REMAINDER OF THE ADJACENT EMBANKMENT MATERIAL SHALL BE FURNISHED, PLACED, AND PAID FOR IN ACCORDANCE WITH 203. BACKFILL AND FILL MATERIAL SHALL BE PLACED UNIFORMLY ON BOTH SIDES OF THE BOX SECTION.

FILL MATERIAL AT THE SIDES OF THE BOX SECTIONS MAY BE COMPACTED BY HEAVY COMPACTION EQUIPMENT.

BASIC FOR PAYMENT:
PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR:

<u>ITEM</u>	<u>NO.</u>	<u>UNIT</u>	<u>DESCRIPTION</u>
603	108	LINEAR FOOT 10' X 5'	PRECAST REINFORCED CONCRETE BOX SECTIONS (AS PER SS 955) C-789 TABLE <u>2</u> AS PER PLAN DESIGN EARTH COVER 4 FT

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE INSTALLATION.