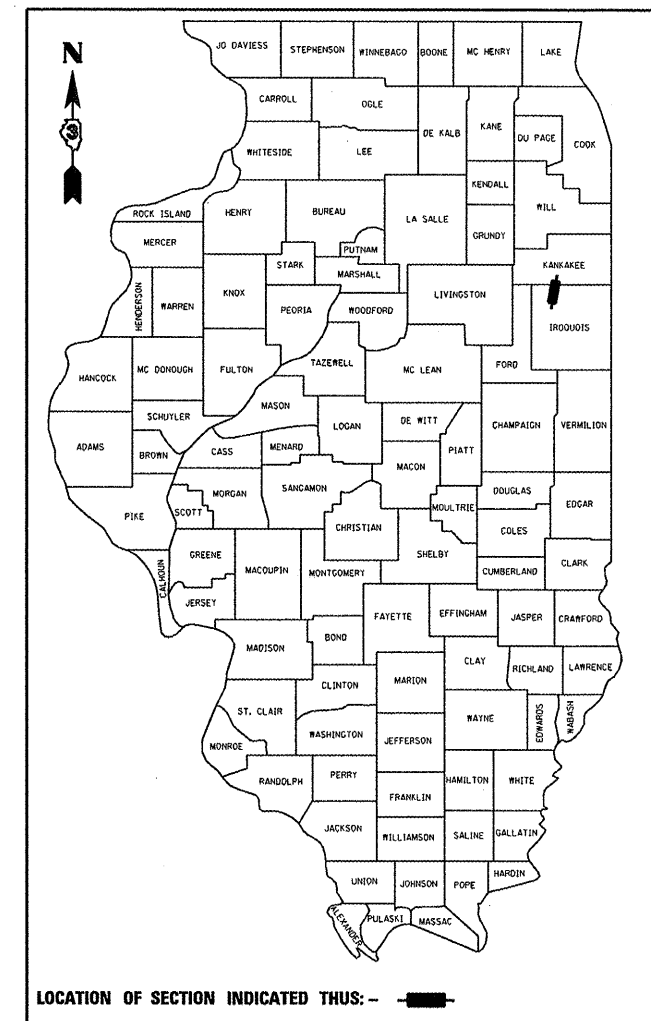


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38)T	IROQUOIS	9	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 66B15		

D-93-063-11



LOCATION OF SECTION INDICATED THUS: —■—

FUNCTIONAL CLASSIFICATION  
 RURAL INTERSTATE  
 F.A.I. ROUTE 57 (I-57)  
 2009 ADT = 17100  
 P.V = 73.1% M.U. = 19.3% S.U. = 7.6%

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED 02/25 20 11  
*Earl S. Markel*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 25 20 11  
*Scott E. Stitt* P.E.  
 ACTING ENGINEER OF DESIGN AND ENVIRONMENT

March 25 20 11  
*Christine M. Reed*  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

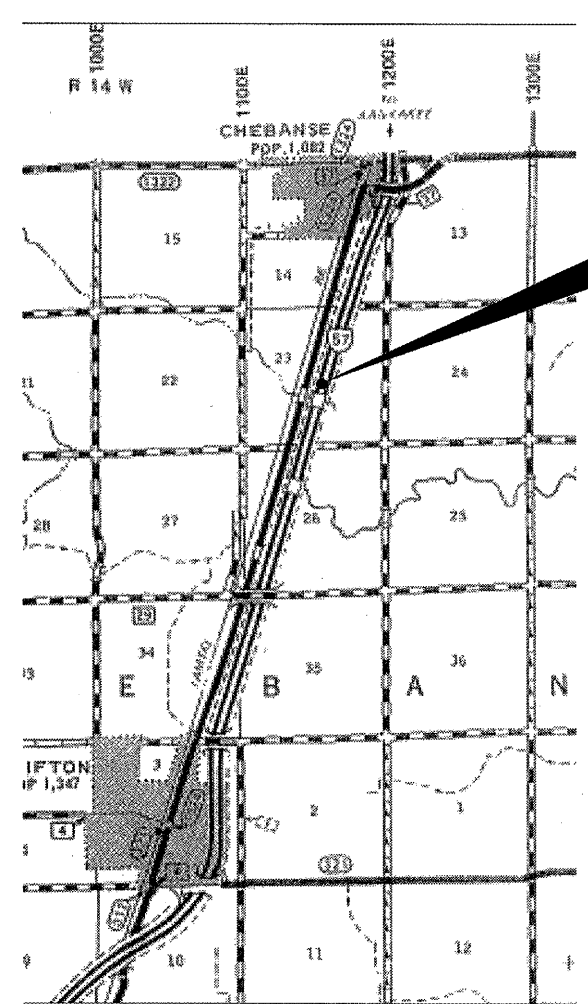
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 OF THE STATE OF ILLINOIS

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

**PROPOSED  
 HIGHWAY PLANS**

F.A.I. ROUTE 57 (I-57)  
 SECTION (38)T

IROQUOIS COUNTY  
 C-93-079-11



**PROJECT LOCATION**  
 FAI ROUTE 57  
 M.P. 300.36 (STA. 800+80)  
 SOUTHBOUND LANES

LOCATION MAP  
 NOT TO SCALE

INDEX OF SHEETS

- COVER SHEET
- GENERAL NOTES
- SUMMARY OF QUANTITIES
- TYPICAL SECTION
- TEMPORARY CONCRETE BARRIER DETAILS
- EXISTING CULVERT DETAILS
- PROPOSED CULVERT DETAILS
- CORRUGATED STEEL PIPE, MULTIPLE END SECTION, TRIPLE 30"
- CONCRETE COLLAR DETAILS

STANDARDS

- |           |   |
|-----------|---|
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                                  |
| 001001-02 | AREAS OF REINFORCEMENT BARS   |
| 001006    | DECIMAL OF AN INCH AND OF A FOOT  |
| 542401-01 | METAL END SECTION FOR PIPE CULVERTS   |
| 635011-02 | REFLECTOR MARKER AND MOUNTING DETAILS   |
| 701101-02 | OFF-ROAD OPERATIONS MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE |
| 701106-02 | OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY                    |
| 701901-01 | TRAFFIC CONTROL DEVICES   |
| 704001-06 | TEMPORARY CONCRETE BARRIER  |
| 701406-06 | LANE CLOSURE, FREEWAY/EXPRESSWAY DAY OPERATIONS ONLY                          |

MICROFILMED \_\_\_\_\_  
 REEL NUMBER \_\_\_\_\_  
 AWARDED \_\_\_\_\_  
 RESIDENT ENGINEER \_\_\_\_\_  
 AS BUILT CHANGES WERE MADE  
 ON THE FOLLOWING SHEETS \_\_\_\_\_

J.U.L.I.E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-892-0123

DISTRICT 3 NO. (815) 434-6131  
 PROJECT ENGINEER: JOE KANNEL, P.E.  
 UNIT CHIEF: RON WOODSHANK  
 TOWNSHIP: CHEBANSE  
 CONTRACT NO. 66B15

**GENERAL NOTES**

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
BIT MATERIALS (PRIME COAT) ON AGGREGATE BASES	0.375	GAL / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

**COMMITMENTS**

NONE 01/10/2011

MIXTURES TABLE		
	LOCATION	
	HMA SHOULDER	
	BOTTOM LIFT	TOP LIFT
	5" LIFTS	2" LIFTS
PG GRADE**	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 19.0	IL 9.5
FRICTION AGGREGATE		
DENSITY TEST METHOD	CORES*	CORES*

- MATERIAL SHALL BE COMPACTED TO 93.0 - 97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.
- WHEN RAP EXCEEDS 20%, THE VIRGIN ASPHALT BINDER SHALL BE REDUCED BY ONE GRADE, (i.e. 25% RAP WOULD REQUIRE A VIRGIN ASPHALT BINDER GRADE OF PG64-22 TO BE REDUCED TO PG58-22).

DATE: 02/25/2011

PREPARED BY: Dave Brown  
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: Harriet K. Long  
DISTRICT CONSTRUCTION ENGINEER

Wayne Phillips  
DISTRICT MATERIALS ENGINEER

Bruce A. Wuckler  
DISTRICT OPERATIONS ENGINEER

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				STATE FUNDS
				100% STATE
				ROADWAY
				0040
				RURAL
20200100	EARTH EXCAVATION	CU YD	55	55
20400800	FURNISHED EXCAVATION	CU YD	25	25
20800150	TRENCH BACKFILL	CU YD	8	8
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	100	100
44004250	PAVED SHOULDER REMOVAL	SQ YD	28	28
48101200	AGGREGATE SHOULDERS, TYPE B	TON	4	4
48203100	HOT-MIX ASPHALT SHOULDERS	TON	20	20
50104650	SLOPE WALL REMOVAL	SQ YD	61	61
50105220	PIPE CULVERT REMOVAL	FOOT	78	78
54248510	CONCRETE COLLAR	CU YD	3	3
542D0235	PIPE CULVERT, CLASS D, TYPE 1 30"	FOOT	48	48
67100100	MOBILIZATION	L SUM	1	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1
X0327237	CORRUGATED STEEL PIPE MULTIPLE END SECTIONS TRIPLE 30"	EACH	1	1

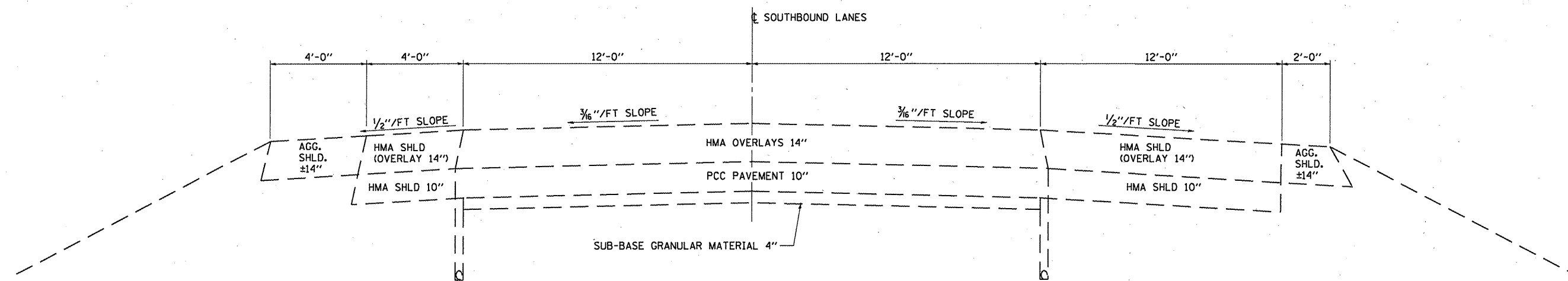
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 1 OF 1 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38)T	IROQUOIS	9	3
FED. ROAD DIST. NO. - ILLINOIS			CONTRACT NO. 66B15	



**EXISTING TYPICAL SECTION**

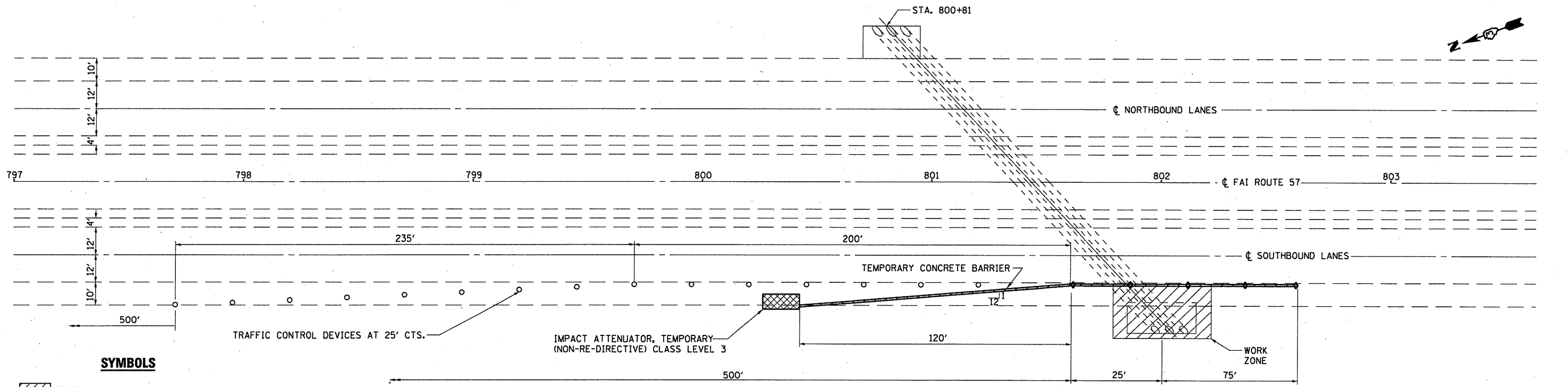
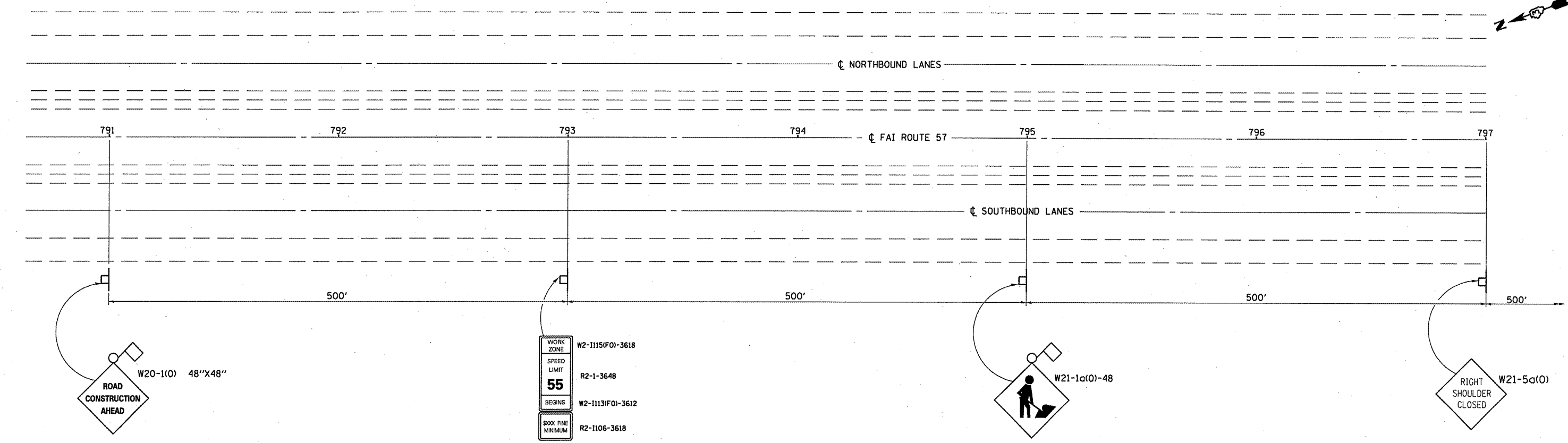
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTION**

SCALE: \_\_\_\_\_ SHEET NO. 1 OF 1 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38)T	IRROOUIS	9	4
FED. ROAD DIST. NO. - [ILLINOIS]			CONTRACT NO. 66B15	



**SYMBOLS**

- Work area
- Sign
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Temporary concrete barrier
- Monodirectional barrier wall/guardrail marker
- Impact attenuator

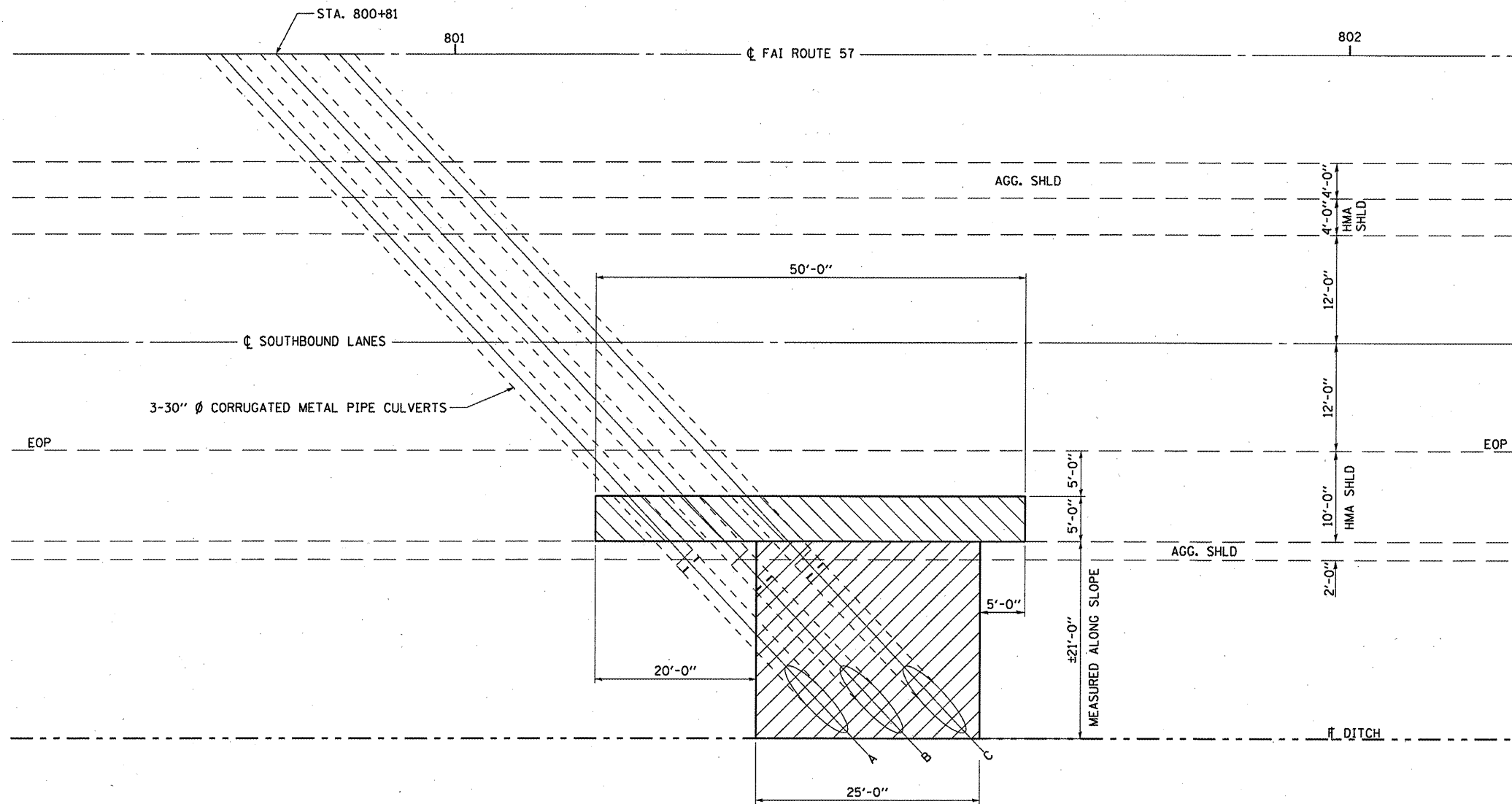
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION, (SPECIAL)**

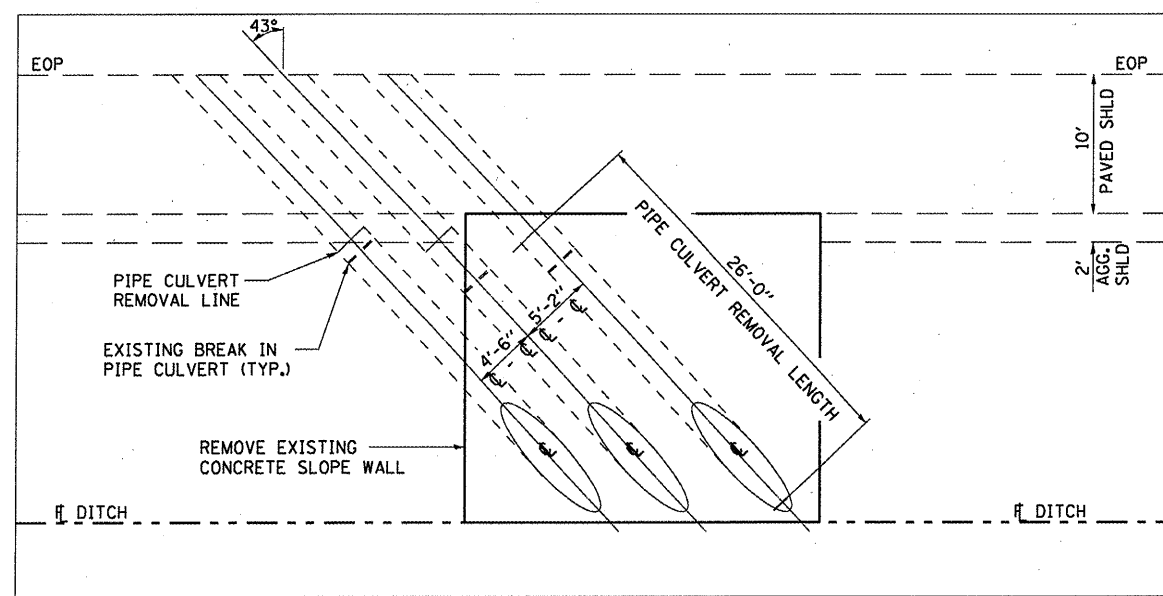
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57	(38)T	IROQUOIS	9	5
FED. ROAD DIST. NO. - ILLINOIS			CONTRACT NO. 66B15	

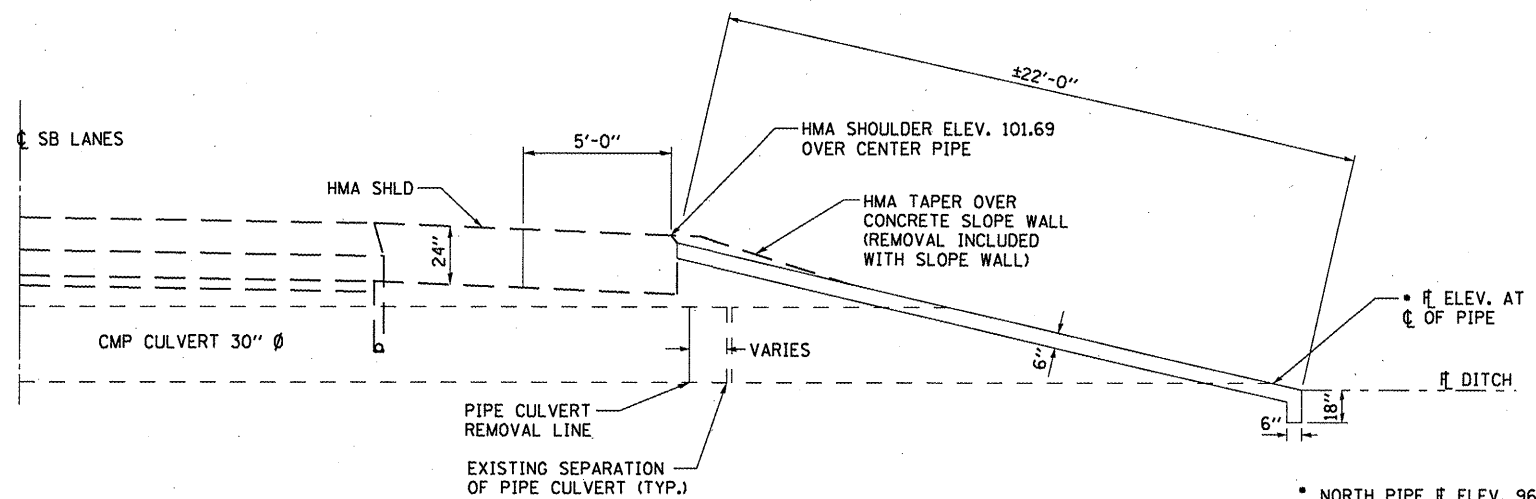


**PLAN**

- HMA SHOULDER REMOVAL AND REPLACEMENT
- SLOPE WALL REMOVAL



**PLAN AT PIPE CULVERTS**



**SECTION AT SLOPE WALL**

- NORTH PIPE  $\bar{x}$  ELEV. 96.45
- CENTER PIPE  $\bar{x}$  ELEV. 96.46
- SOUTH PIPE  $\bar{x}$  ELEV. 96.31

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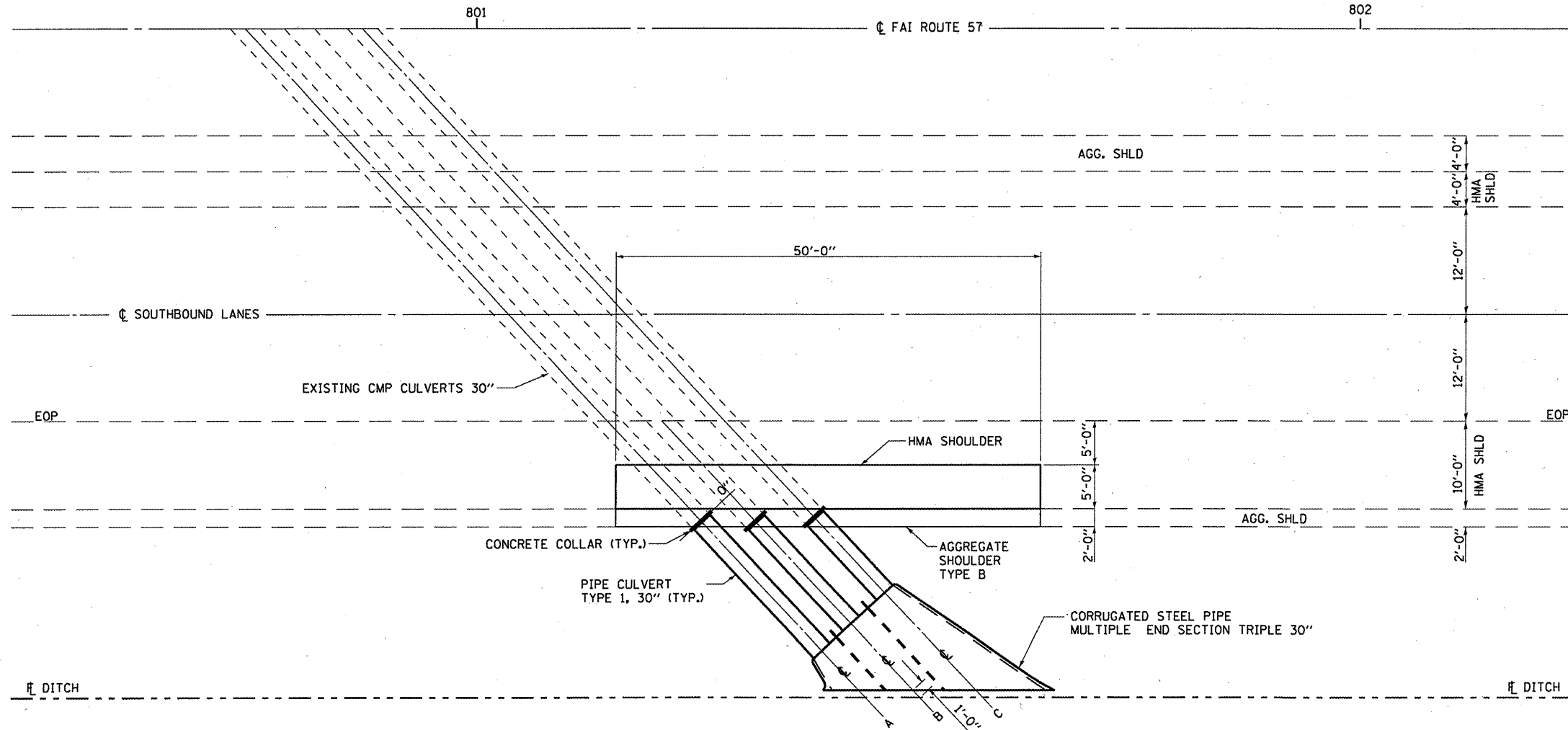
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING CULVERT DETAILS**

SCALE: \_\_\_\_\_ SHEET NO. 1 OF 1 SHEETS

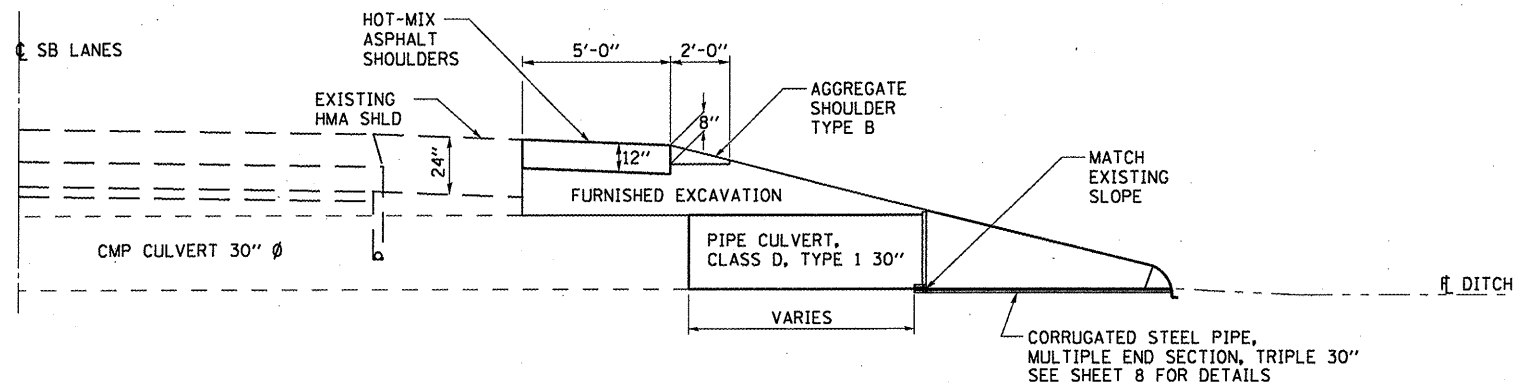
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FED. ROAD DIST. NO. _____ ILLINOIS			CONTRACT NO. 66B15	

BM #1 CHISLED "X" ON SOUTH MEDIAN INLET, ELEV. 100.00



**PLAN**

PIPE	LENGTH
A	20 FT.
B	16 FT.
C	12 FT.



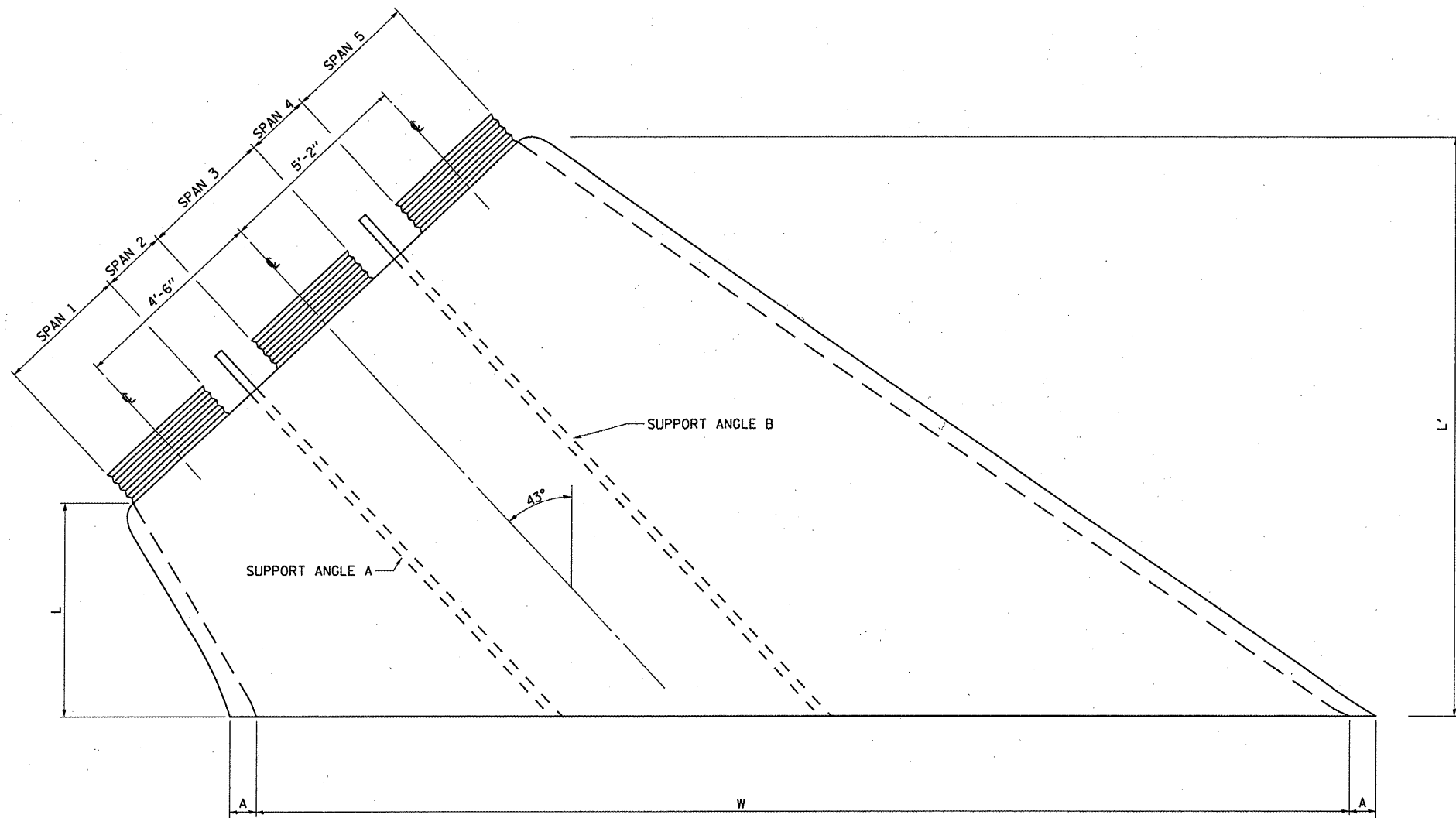
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

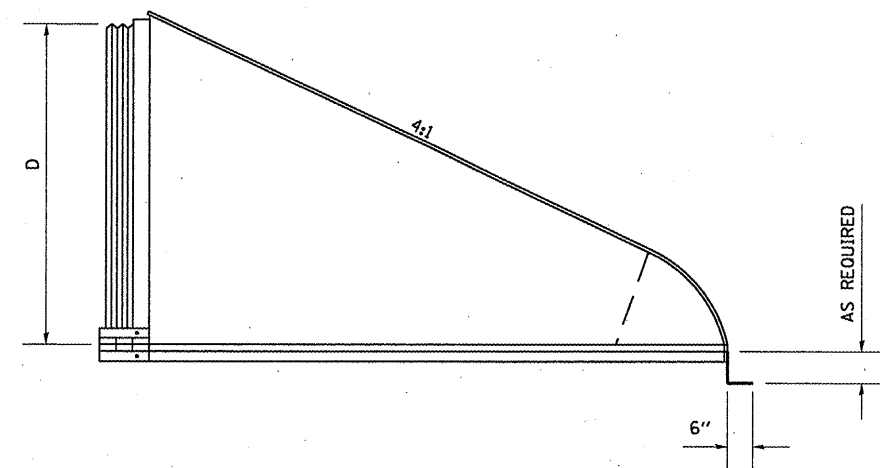
**PROPOSED CULVERT DETAILS**

SCALE: \_\_\_\_\_ SHEET NO. 1 OF 1 SHEETS

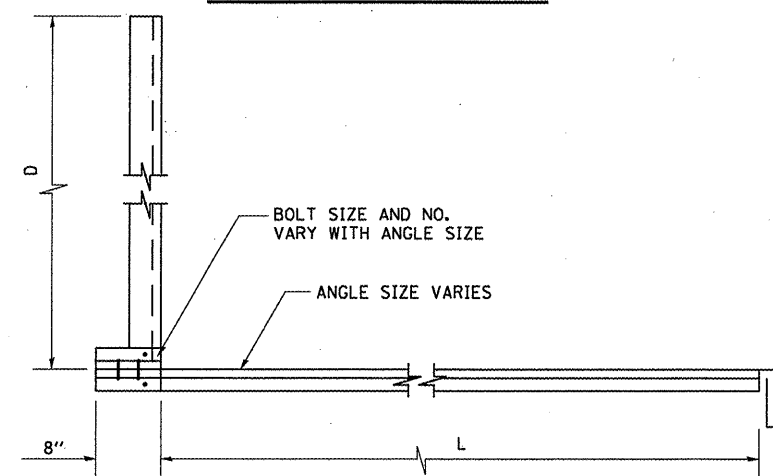
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CONTRACT NO. 66B15				
FED. ROAD DIST. NO. - [ILLINOIS]				



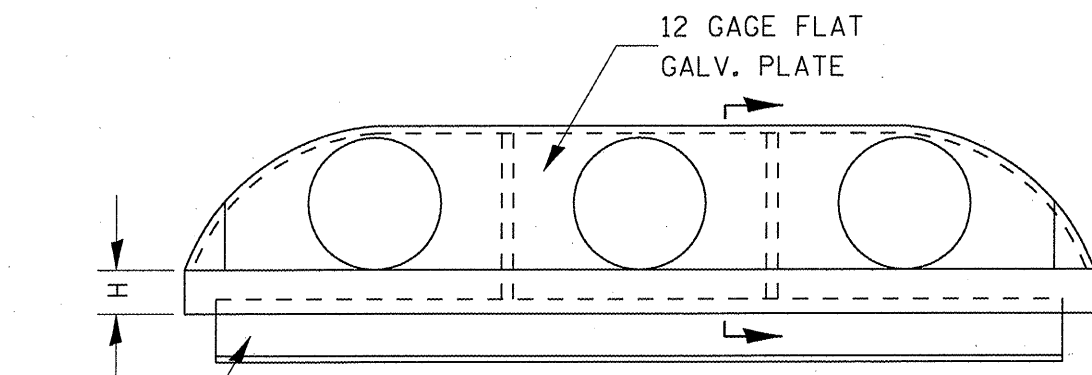
PLAN



SIDE VIEW



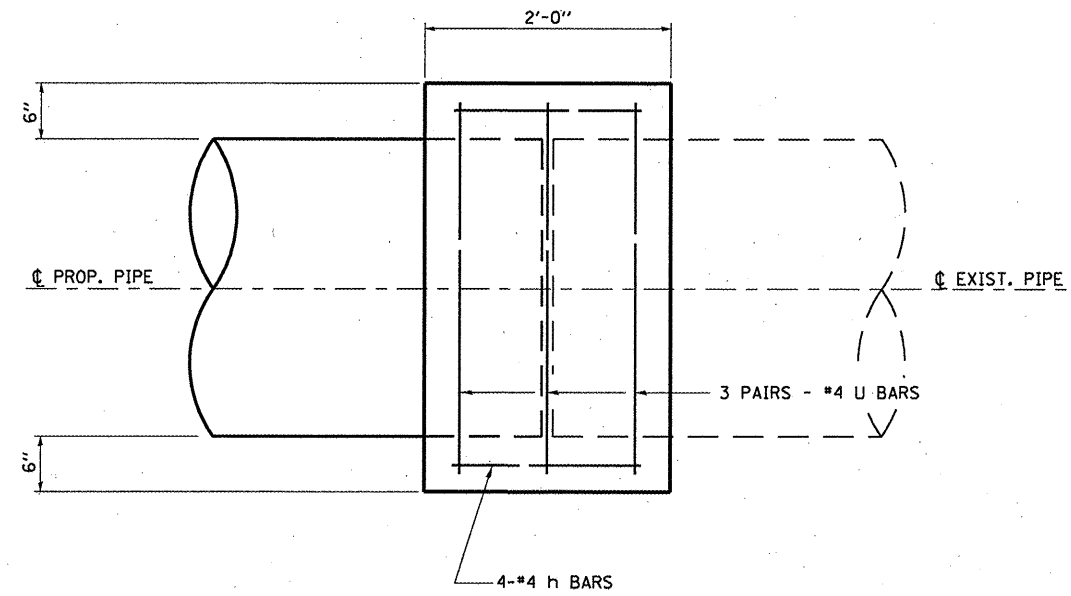
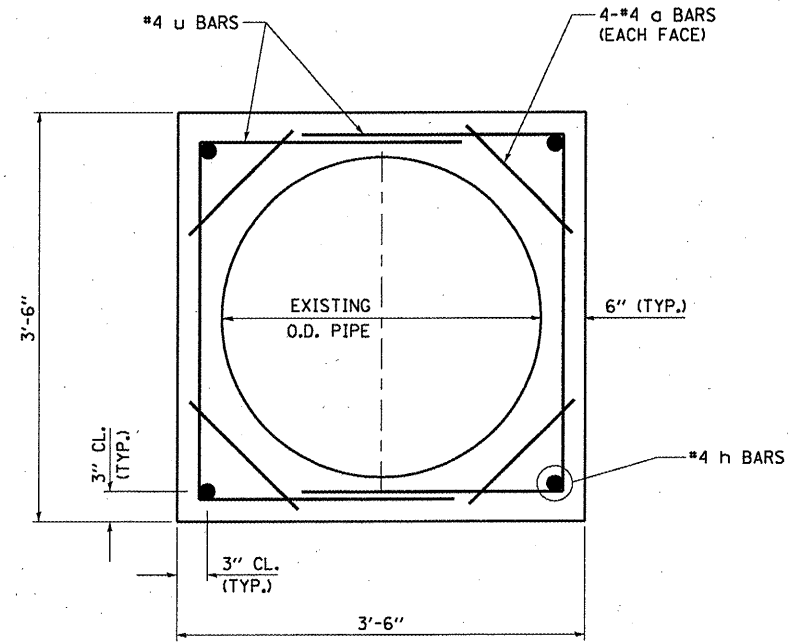
ANGLE SECTION VIEW



ELEVATION

ROUND PIPE												
MULTIPLE END SECTIONS												
PIPE DIA (D)	GAGE	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	A	H	L	L'	TRIPLE	REINFORCING
(in)		(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	W	ANGLE
30"	12	30	24	30	32	30	12 1/4	16	43 3/8	143 3/8	289 5/8	6 x 4 x 1/2

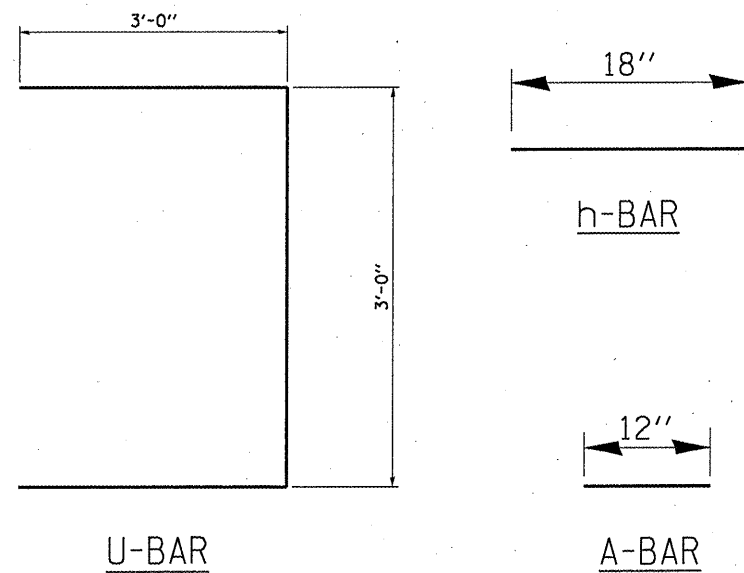




CONCRETE COLLAR  
BILL OF MATERIAL

(FOR 1 COLLAR)  
FOR INFORMATION ONLY

Bar	No.	Size	Length	Shape
a	6	#4	1'-0"	—
h	4	#4	1'-6"	—
u	8	#4	9'-0"	U
Reinforcement Bars, Epoxy Coated			Pound	60
Class SI Concrete			Cu. Yds.	1



COLLAR DETAIL (DIRECT PIPE CULVERT EXTENSION)