CONSTRUCTION PLANS FOR POND OVERFLOW PIPE STRUCTURE

HARBOR ISLE ADDITION

TO

CITY OF WICHITA, KANSAS

DETENTION RESERVOIR NO. 24

MICHAEL E. LINDEBAK, P.E. – CITY ENGINEER

PROJECT NO. 468-82406
INDEX CODE 750588

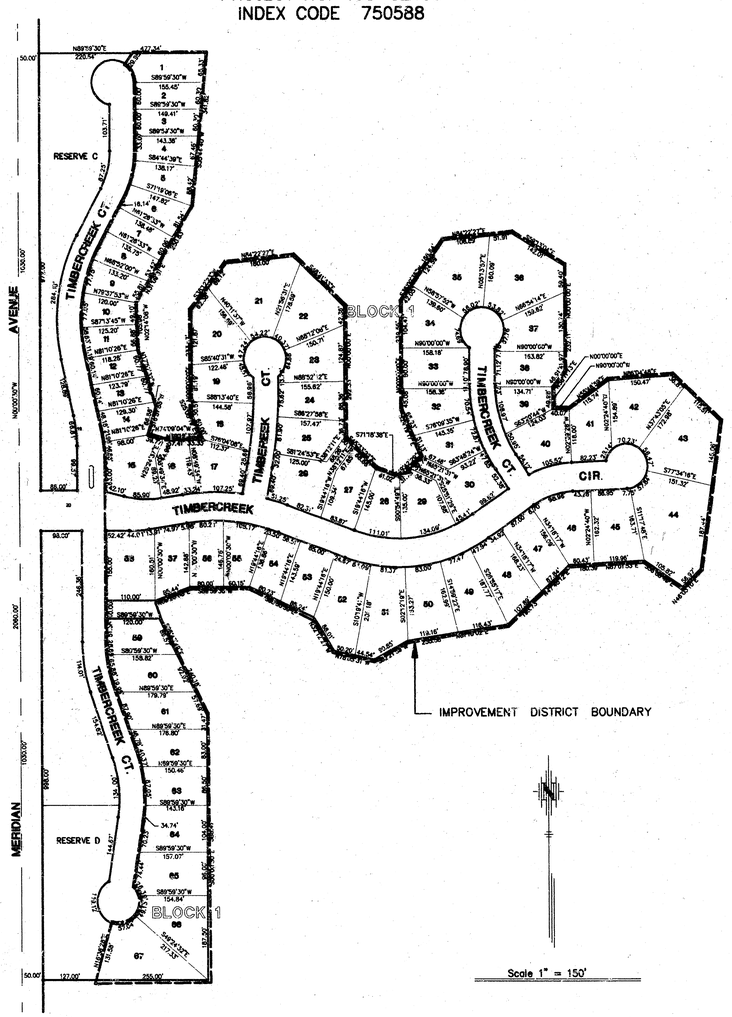
INDEX

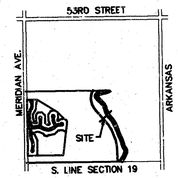
GENERAL NOTES:

1. Utility service lines, poles, valve boxes, meters and etc. are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
2. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved.

   All suitable excavation shall be wasted on low lying lots within the addition before any material is disposed of off site.

   All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.
3. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.
4. The Contractor shall be responsible for preserving property irons. The Contractor will be required to reestablish any property irons which are damaged or destroyed by his construction operations. Such irons shall be reestablished by a licensed land surveyor or a licensed professional engineer in accordance with state laws.
5. Trees are to be removed as needed. The cost is subsidiary to construction costs.





LOCATION MAP
NO SCALE

BENCH MARKS

(City of Wichita Datum)

1. " " Cut in S. Hdwl. of Culvert @ 45th & Meridian
   Elev. 141.07
2. City of Wichita Disc @ N.W. Cor. of Keywest & Meridian
   Elev. 141.85

BOOKED
4-24-96
MCG
D-286

KENNY E. HILLER
LICENSED
1696
KANSAS
PROFESSIONAL ENGINEER
3-31-95

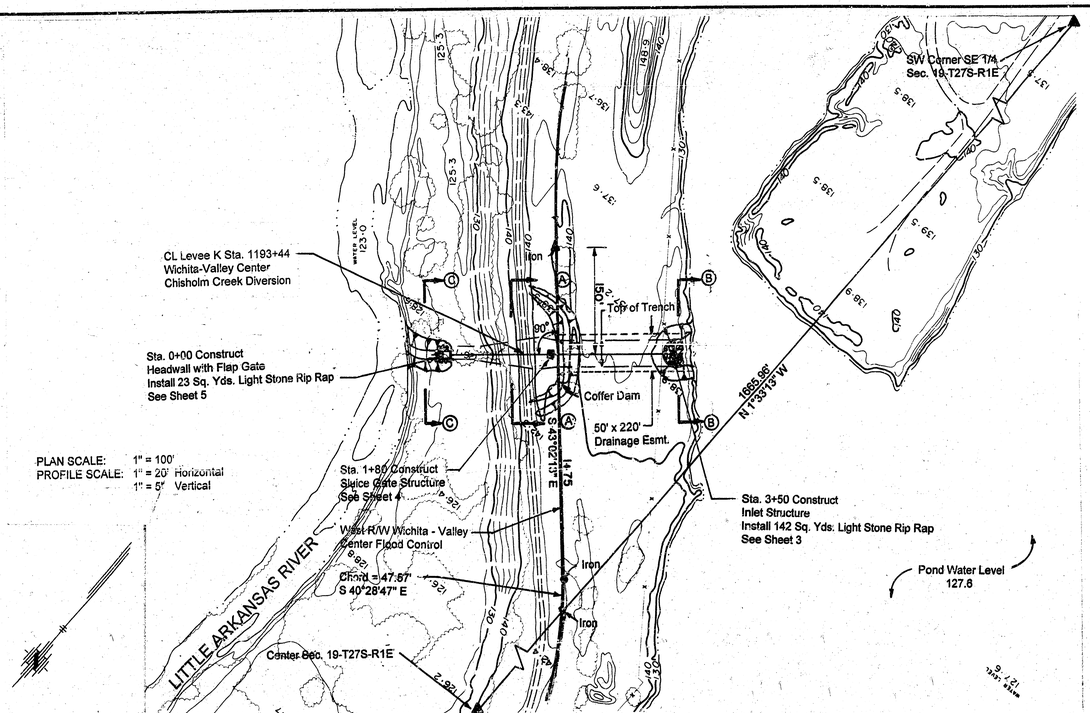
FEBRUARY 1995

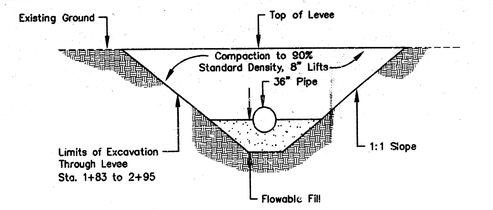
PLANS PREPARED
BY
POE & ASSOCIATES OF KANSAS, INC.
CONSULTING ENGINEERS
434 N. Oliver Suite 110 Wichita KS 67208 316/686-4114

F:\APPS\DOA\P\51211\TITDWPL Wed Feb 22 14:49:21 1995 Jim Parsons Poe & Assoc.

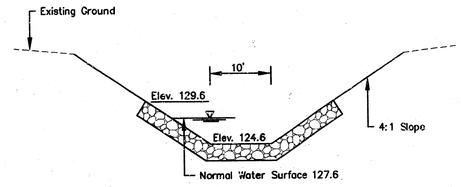
GENERAL NOTES:

1. The pipe, headwall, and flap gate from Sta. 2+80 to Sta. 3+50 shall be completed and backfilled before cutting through the existing levee.
2. A Coffer Dam is to be completed as shown prior to laying the pipe through the levee.
3. The levee shall be completely backfilled prior to laying pipe form Sta. 0+00 to Sta. 1+70.
4. Backfill from Sta. 1+83 to Sta. 2+95 shall be as shown in Section A–A.
5. All backfill shall be compacted to 90% Standard Density.
6. Backfill with flowable fill to the springline of the 36" Pipe from Sta. 1+83 to Sta. 2+95.
7. All vegetation shall be restored to its original condition.
8. The coffer Dam shall be removed after completion of the pipe backfill and reconstruction of the existing levee.
9. Grading required at the Inlet Structure and at the Headwall shall be considered subsidiary to Project Costs and shall not be paid for . This material is to be wasted on site at the direction of the Engineer.

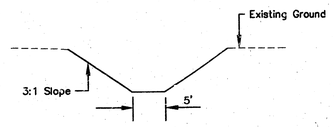




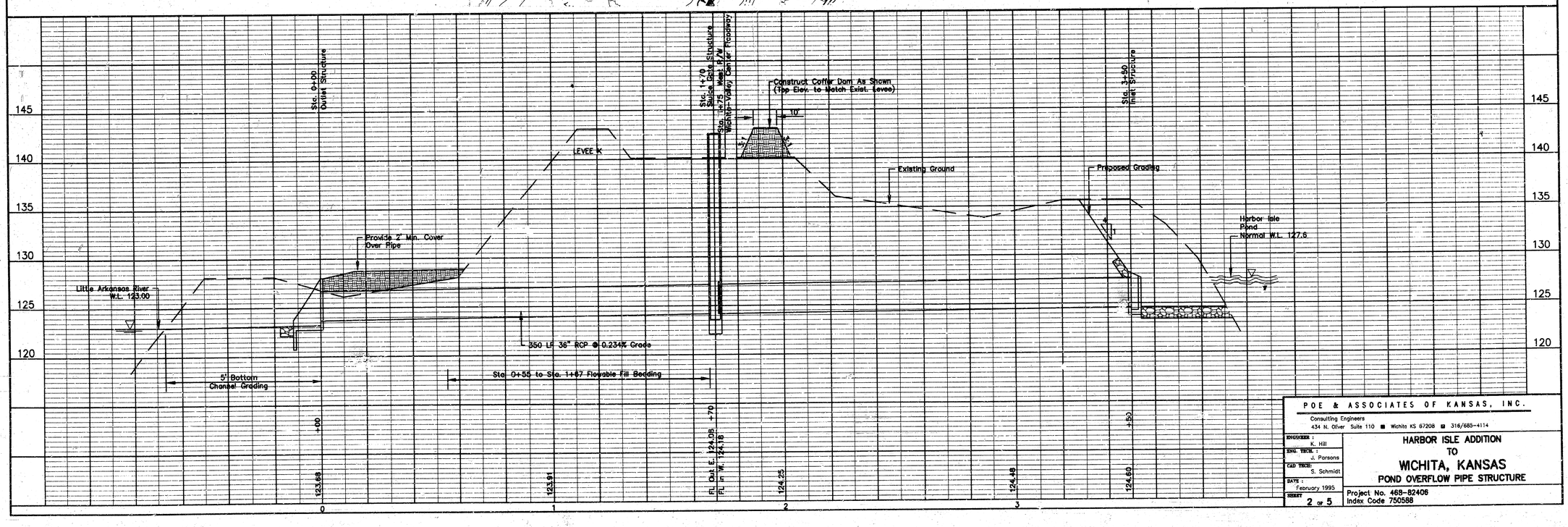
SECTION A–A



SECTION B–B



SECTION C–C



POE & ASSOCIATES OF KANSAS, INC.
Consulting Engineers
434 N. Oliver Suite 110 ■ Wichita KS 67208 ■ 316/685-4114

ENGINEER : K. Hill
ENG. TECH. : J. Parsons
CAD TECH. : S. Schmidt
DATE : February 1995
SHEET 2 of 5

HARBOR ISLE ADDITION
TO
WICHITA, KANSAS
POND OVERFLOW PIPE STRUCTURE

Project No. 468-82406
Index Code 750588

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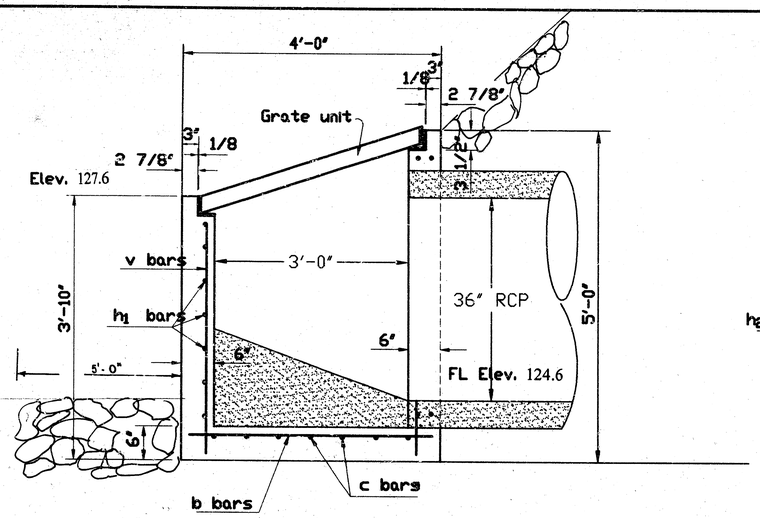
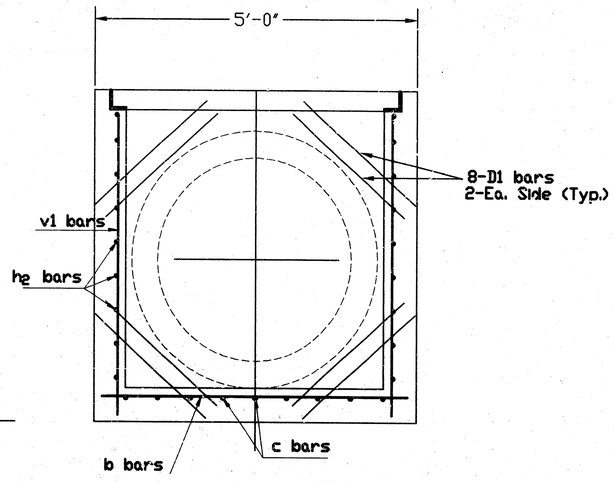


SECTION B-B



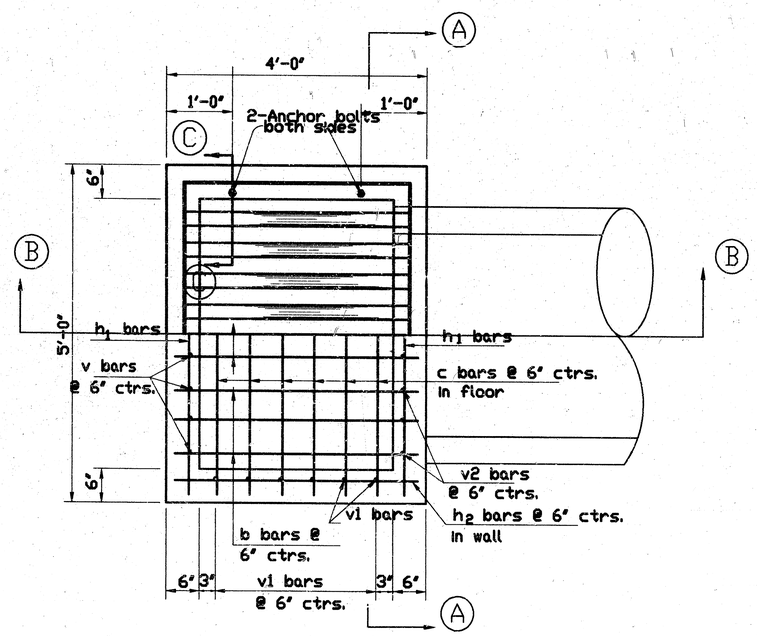
SECTION A-A

GENERAL NOTE

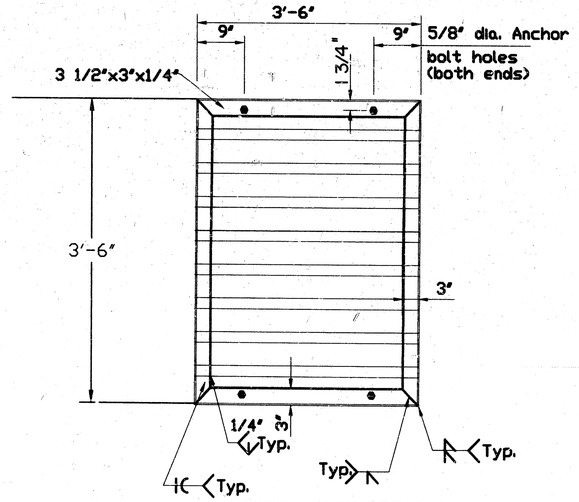
All exposed edges shall be finished with an edging tool.

Bend bars around pipes.
Floor of inlet shall be shaped as shown.
Concrete used for shaping shall be concrete pavement mix.
All bars are #4 @ 6" spacing and shall have a minimum clearance of 1 1/2" unless otherwise noted on the plans.

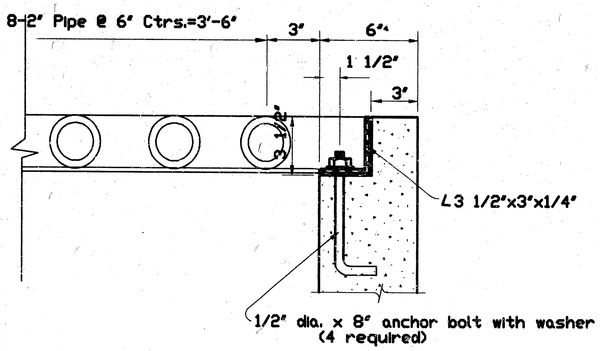
The grate shall be fabricated from standard or commercial grade structural steel and black steel pipe. The unit shall be hot dipped, galvanized after fabrication, in accordance with ASTM A123 except the weight of coating shall average not less than 2.0 ounces per square foot of actual surface and no individual test shall show less than 1.8 ounces of coating per square foot of actual surface area.



PLAN AND SECTION



GRATE UNIT DETAILS



SECTION C-C

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ENGINEER: K. Hill	HARBOR ISLE ADDITION TO WICHITA, KANSAS POND INLET STRUCTURE DETAILS
ENG. TECH.: J. Parsons	
CAD TECH: S. Schmidt	
DATE: FEB. 1995	Project No. 468-82406 Index Code 750588
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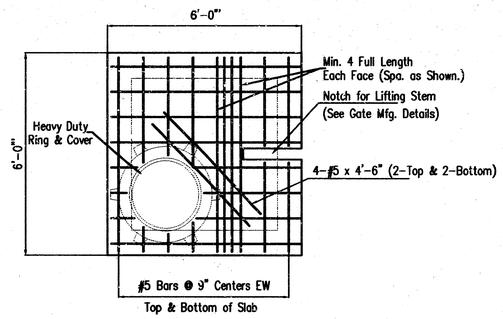

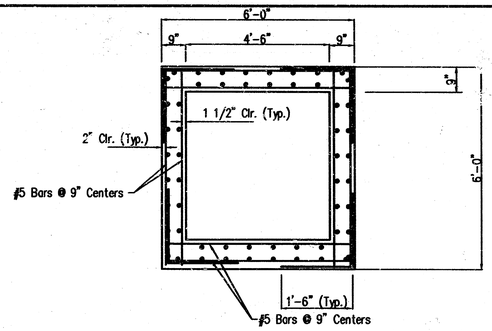

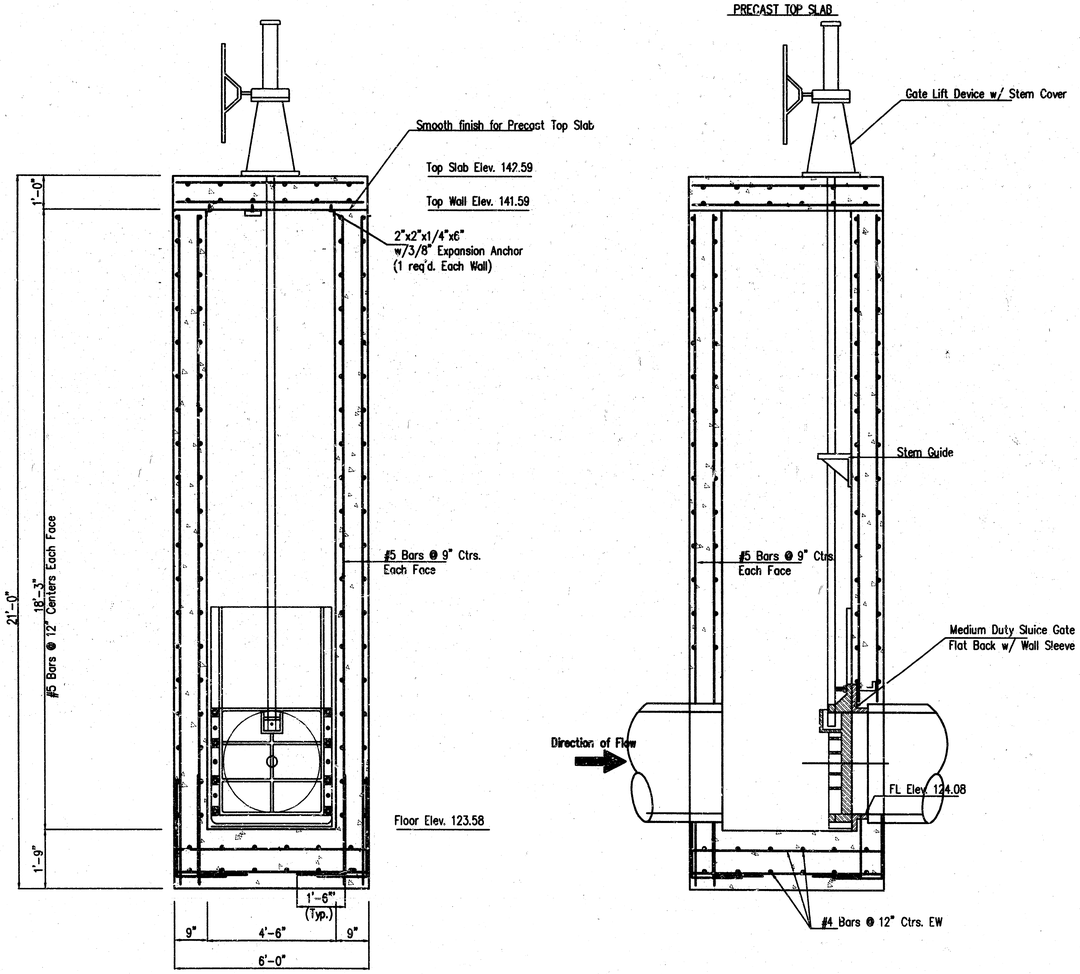

GENERAL NOTES:

GATE & LIFT

The gate shall be as Mfg. by Armco Model 50-10 medium dut; Sluice Gate w/ Flat back and Wall Thimble.

The Lift Device shall be designed for the above specified Gate and have a Stainless Steel Stem, Stem Guides (as req'd.) and Threaded Stem Splice. The Rising Stem shall have a Galvanized cover.

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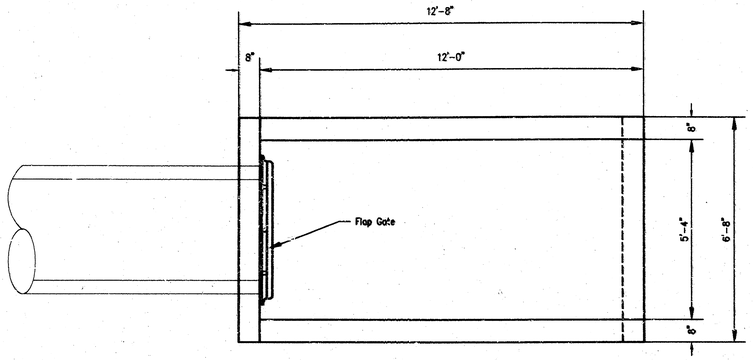
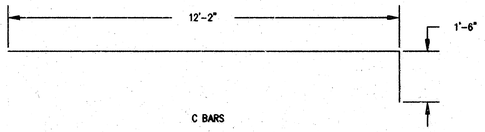
ENGINEER : K. Hill	HARBOR ISLE ADDITION TO WICHITA, KANSAS SLUICE GATE STRUCTURE
ENG. TECH. : J. Parsons	
CAD TECH: S. Schmidt	
DATE : February 1995	
SHEET 4 of 5	Project No. 468-02408 Index Code 750568

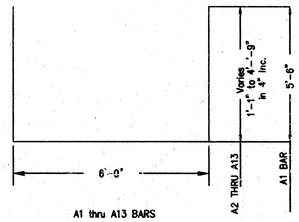


BAR SCHEDULE

MARK	SIZE	NO.	SPACING	LENGTH	REMARKS	QUANTITY REINF. ST	CONCRETE
A1	#4	1	12"	17'-0"	Bend Bar as Shown	11.36	
A2-A13	#4	1 Ea.	12"	1'-11" Avg.	Bend Bar as Shown, Cut in Inc. of 8"	94.91	
B1	#4	2	12"	12'-3"	Horz. in Wall	16.37	
B2	#4	2	12"	9'-3"	Horz. in Wall	12.36	
B3	#4	2	12"	5'-3"	Horz. in Wall	7.01	
B4	#4	2	12"	3'-3"	Horz. in Wall	4.34	
C	#4	7	12"	13'-8"	Bend Bar as Shown	63.91	
D1	#4	2	As Shown	3'-10"	Diag. Around Pipe	5.12	
E	#4	6	As Shown	6'-2"	Bott. Toe & Top Hbgd.	8.24	
F	#4	2	As Shown	12'-11"	Along Top of Walls	17.26	
					TOTAL	244.22	5.21

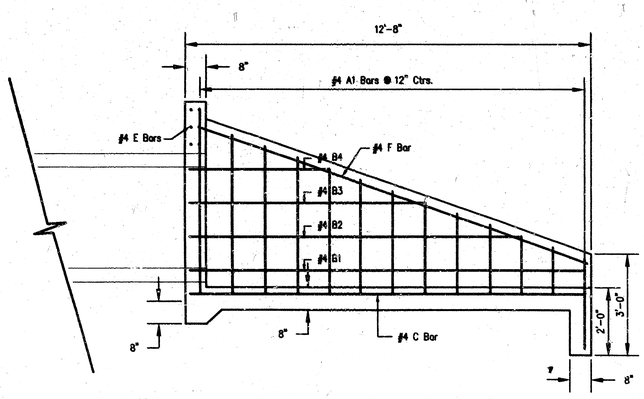


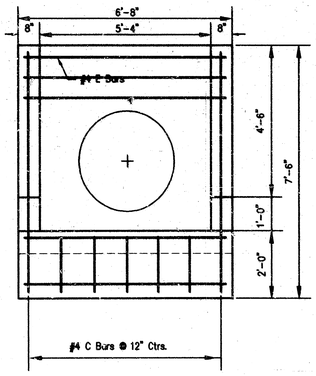
C BARS



A1 thru A13 BARS

BENDING DIAGRAM





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ENGINEER : K. Hill	HARBOR ISLE ADDITION TO WICHITA, KANSAS POND HEADWALL STRUCTURE DETAILS
ENG. TECH. : J. Parsons	
CAD TECH: S. Schmidt	
DATE : FEB. 1995	Project No. 468-82406 Index Code 750588
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