

STORM WATER SEWER IMPROVEMENTS TO SERVE

NEWMAN UNIVERSITY

Private Project Number

819 PPS (607861)

CITY OF WICHITA, KANSAS

Michael E. Lindebak, P.E. City Engineer

GENERAL NOTES:

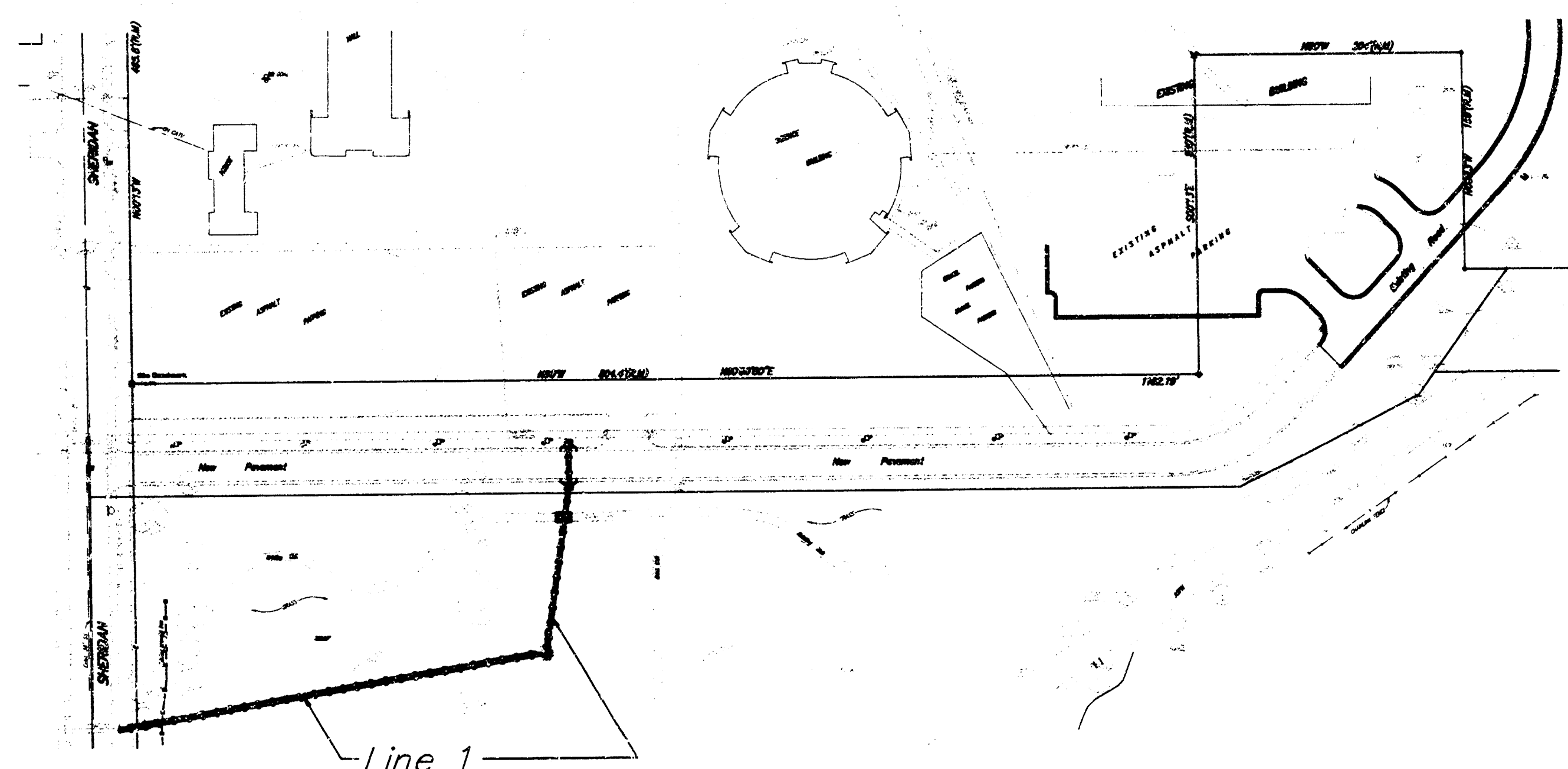
1. Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:

Kansas One-Call 687-2470

The Contractor must notify the following in case of an emergency:

Cablevision 262-4270
or 263-2061
K.P.L. Gas Service Company 383-8450
Kansas Gas & Electric Company 383-8450
Peoples Nat. Gas Company 942-8300
Southwestern Bell Telephone Company 1-571-2611
City of Wichita Water Department 253-4908
City of Wichita Sewer Maintenance 268-4071

2. Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. 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.
3. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.
4. All areas disturbed by construction operations shall be seeded with rye grass at a rate of 300 lbs/acre immediately following construction in that area, unless construction is completed during Sept.-Oct. months plant Kansas Premium Fescue Seed (min. 4 varieties).
5. 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.
6. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.
7. 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 not, in the opinion of the Engineer, will leave an unsightly appearance will not be approved.
8. Prior to bid preparation, it will be the Contractor's responsibility to field check the project area to determine the extent of Site Clearing and Restoration to be performed.
9. Contractor shall not start work on the project until the project inspector is assigned to the project and is present on the site. Any work done without inspection will be required to be uncovered for inspection.



SCALE:
1" = 100'
= Iron

Booked
2/3/04
RDL
E-11

BENCHMARK:

BM #1
City of Wichita Brass Disc, Top of Curb at
Southeast Corner of Sheridan & McCormick.
Elevation: 111.46 City Datum

BM #2
Located approx. 345' L.F. west of K-42
and McCormick intersection. Elevation is
the top of pipe in thimble.
Elevation: 109.50 City Datum

SITE BENCHMARK:
BM CROSS: Chisled "X" Cross back of existing
walk along Sheridan R.W. at the center of the
entrance to existing parking lot.
Elevation: 110.77 City Datum

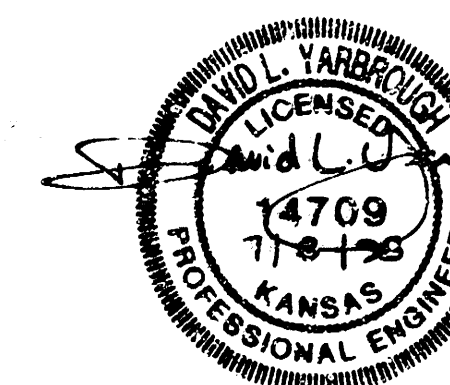
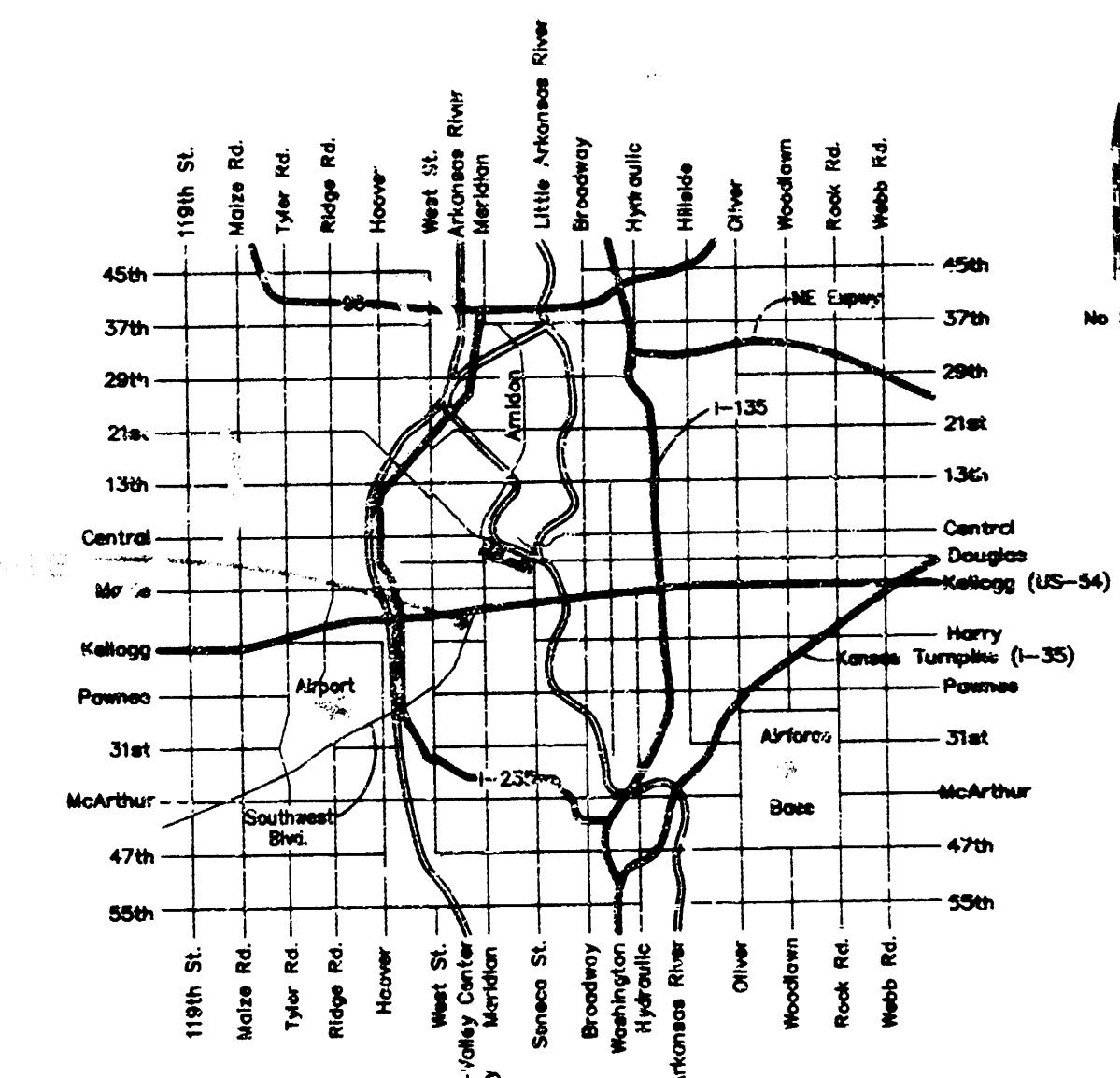
INDEX:

- 1 Title Sheet
- 2 Line 1
- 3 Special Yard Inlet w/
Straw Bale Barrier
- 4 Type 1A Std. Inlet Detail

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA
Storm Sewers VRLH 7/8/98

NOTE TO CONTRACTORS

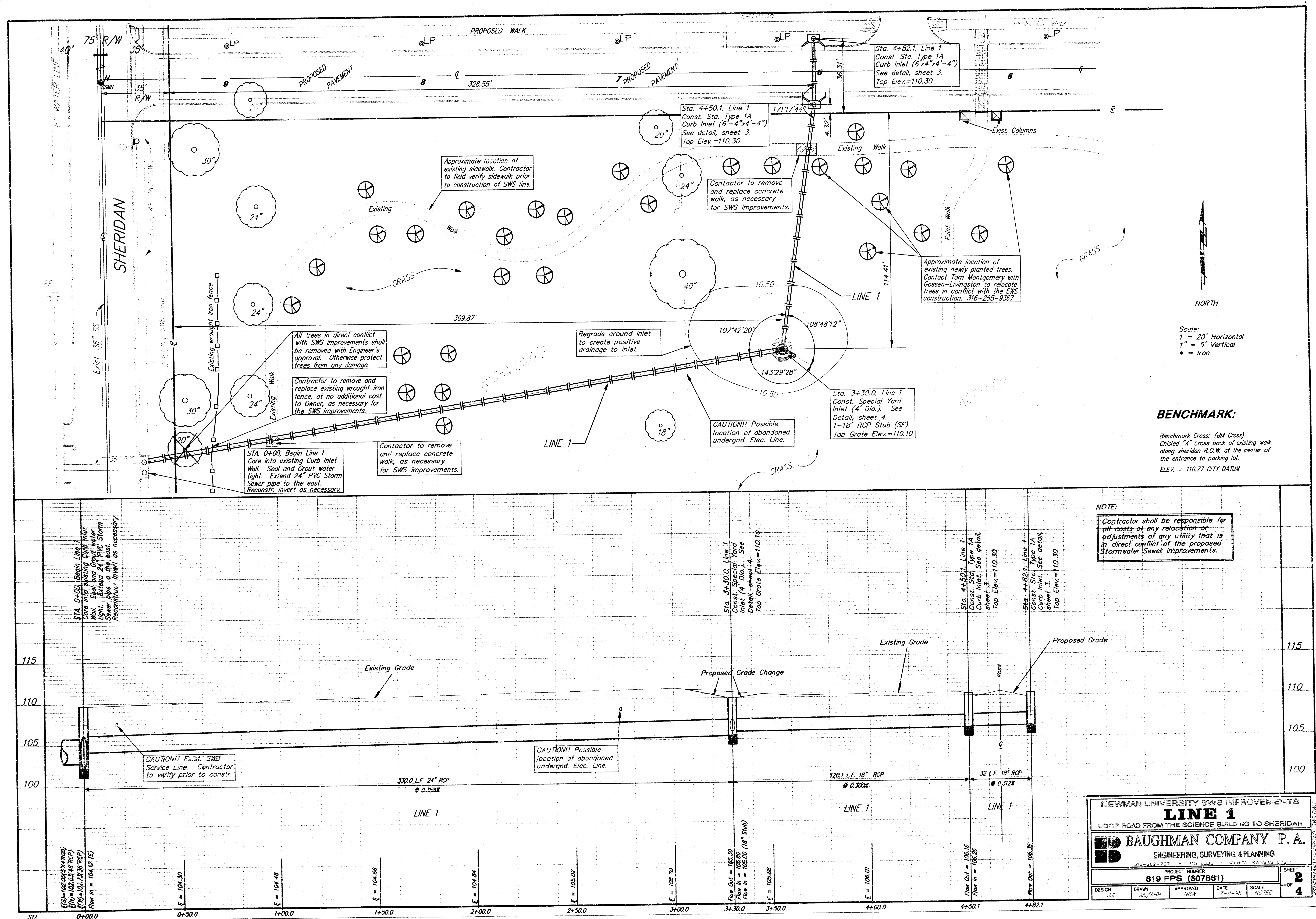
Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by the City Engineer. All Construction and Materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).

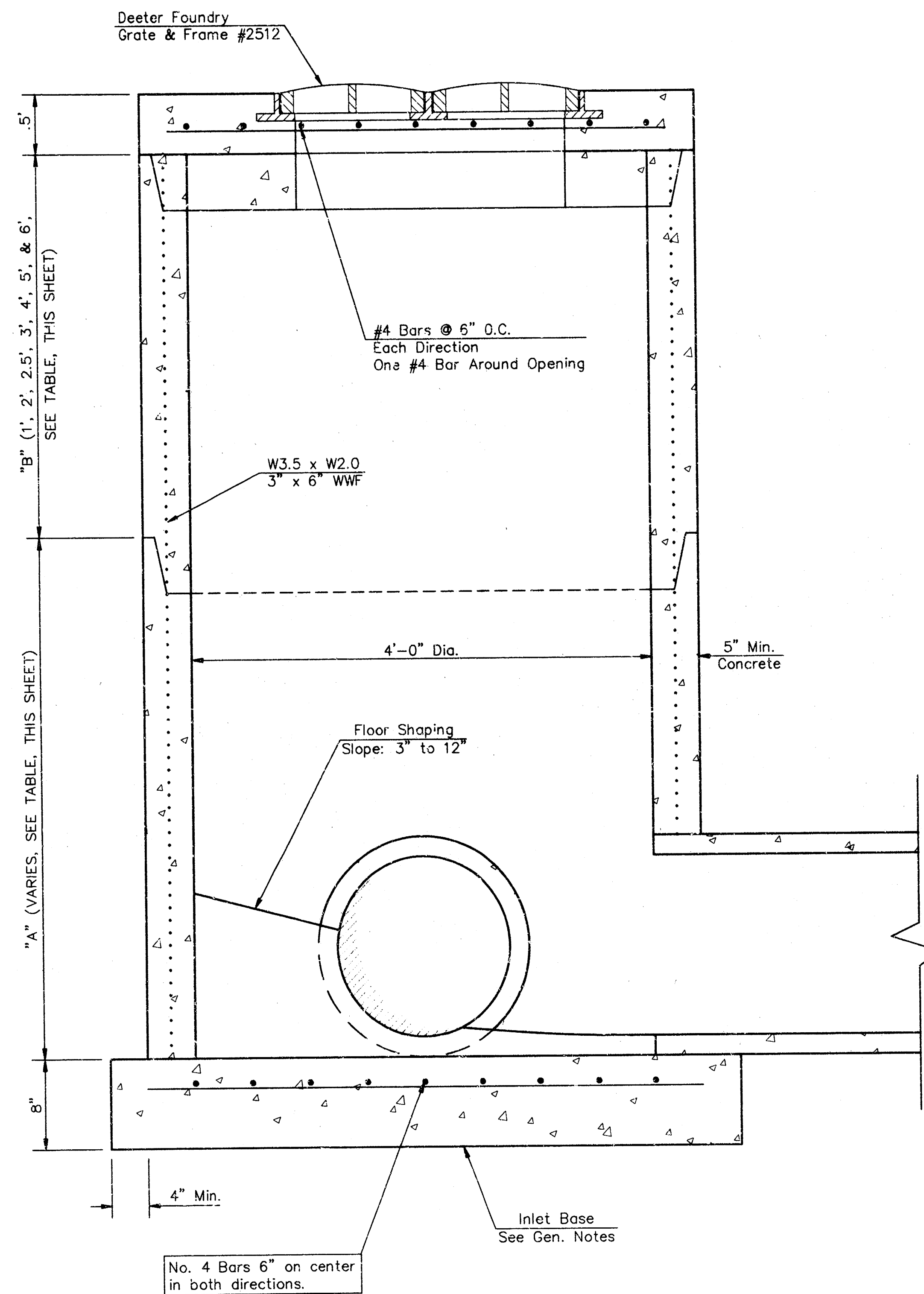


July 8, 1998

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

NEWMAN UNIVERSITY STORM SEWER IMPROVEMENT AREAS

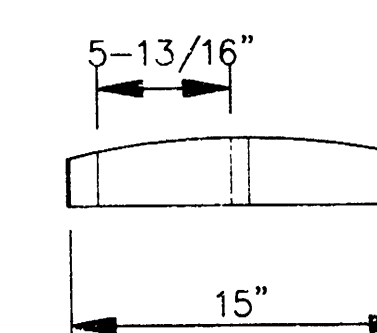
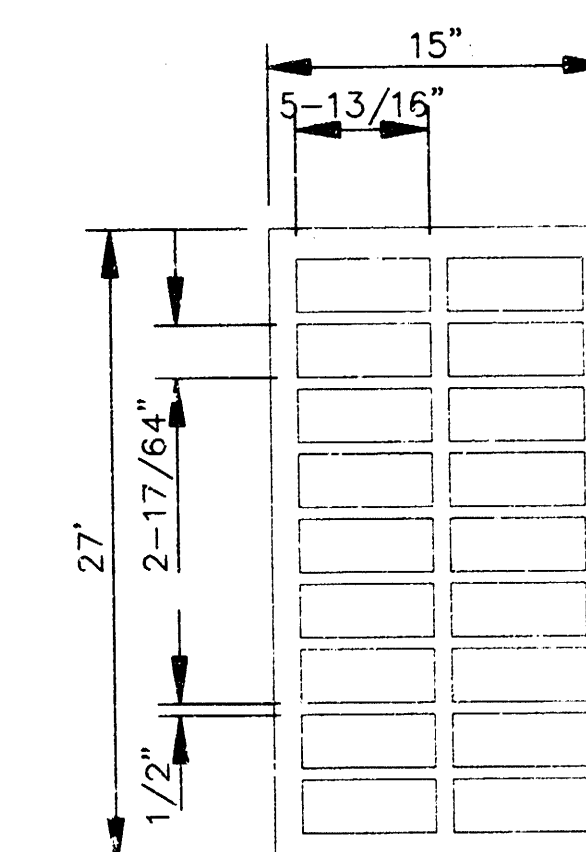
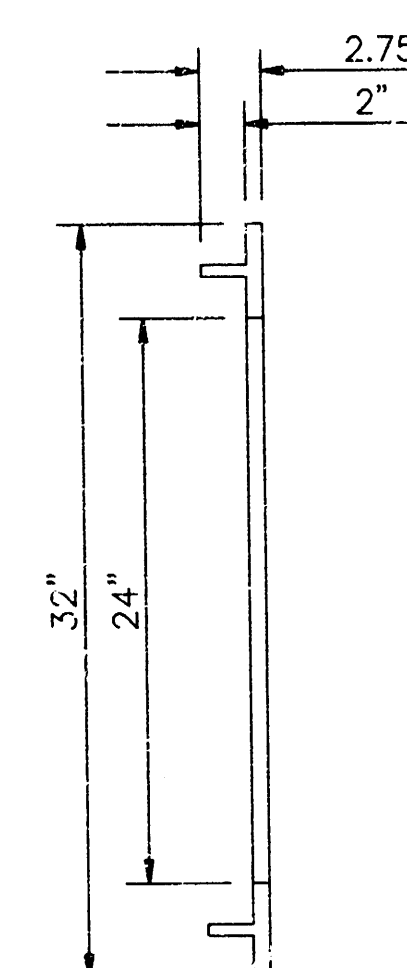
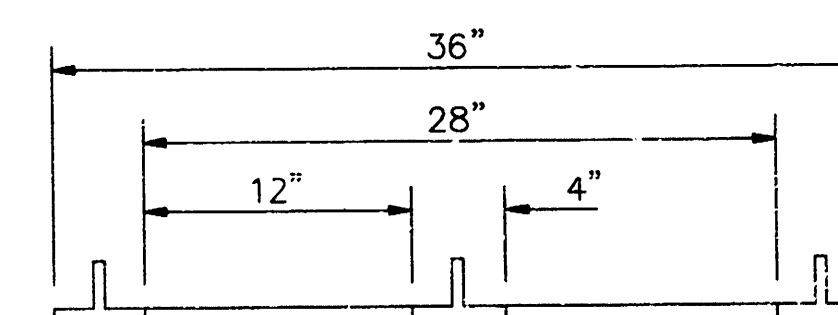
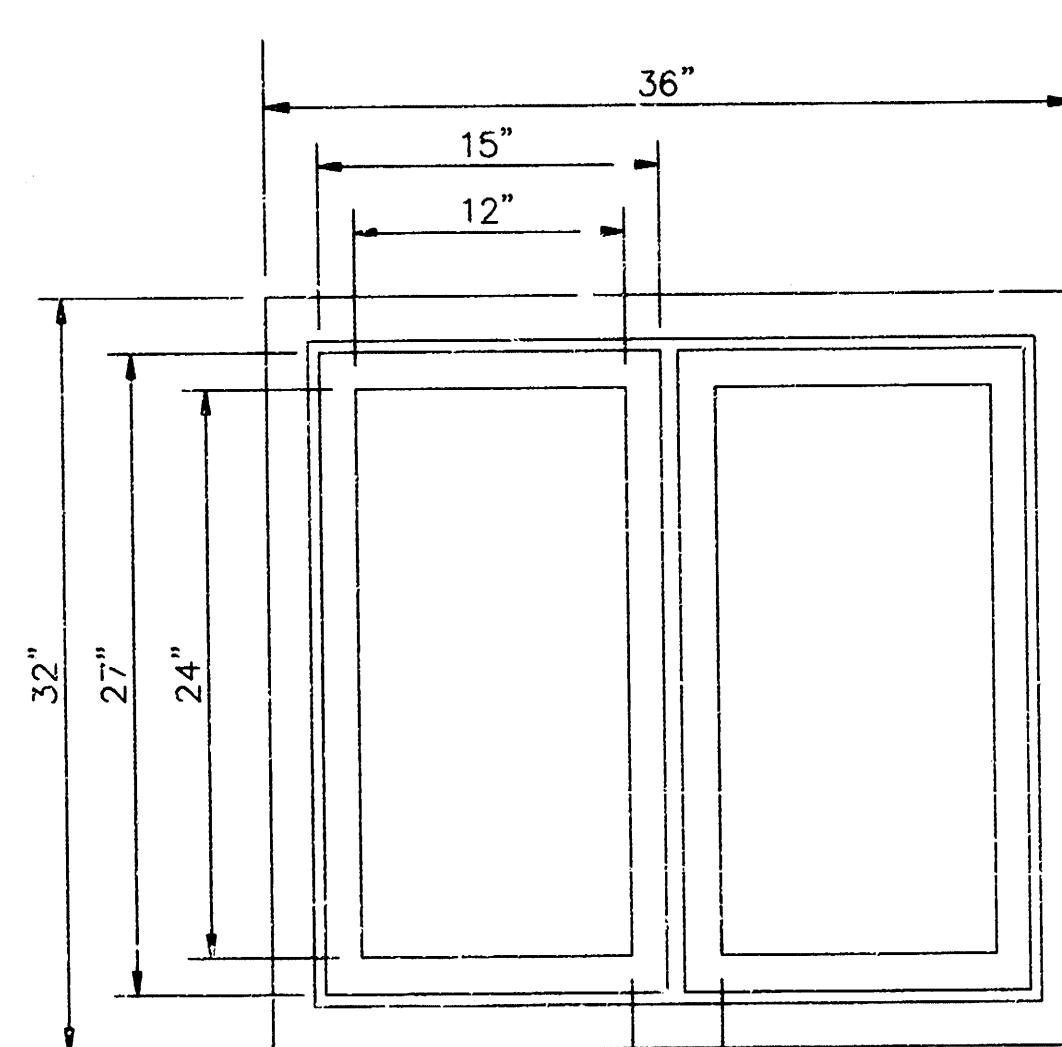
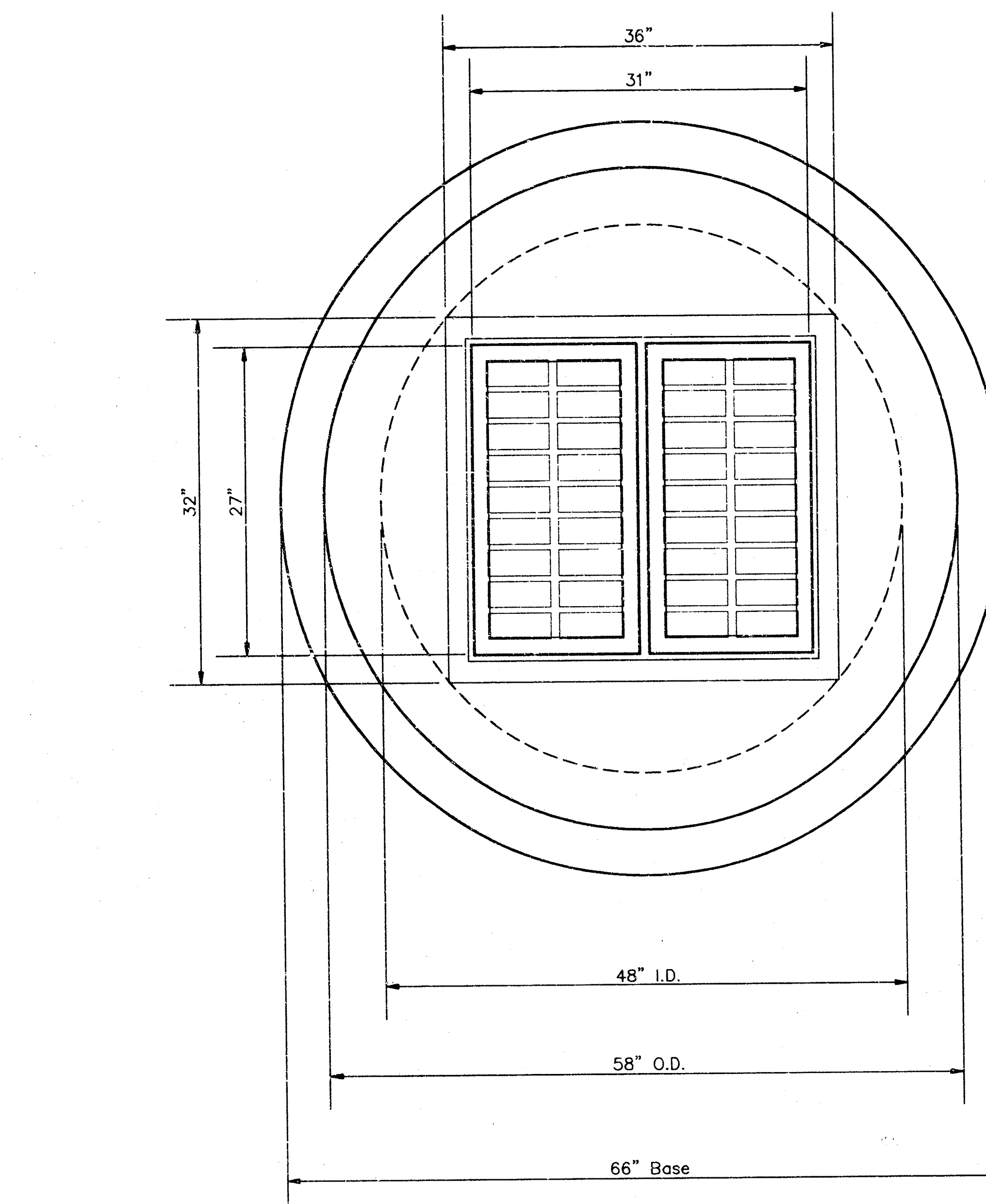




YARD INLET

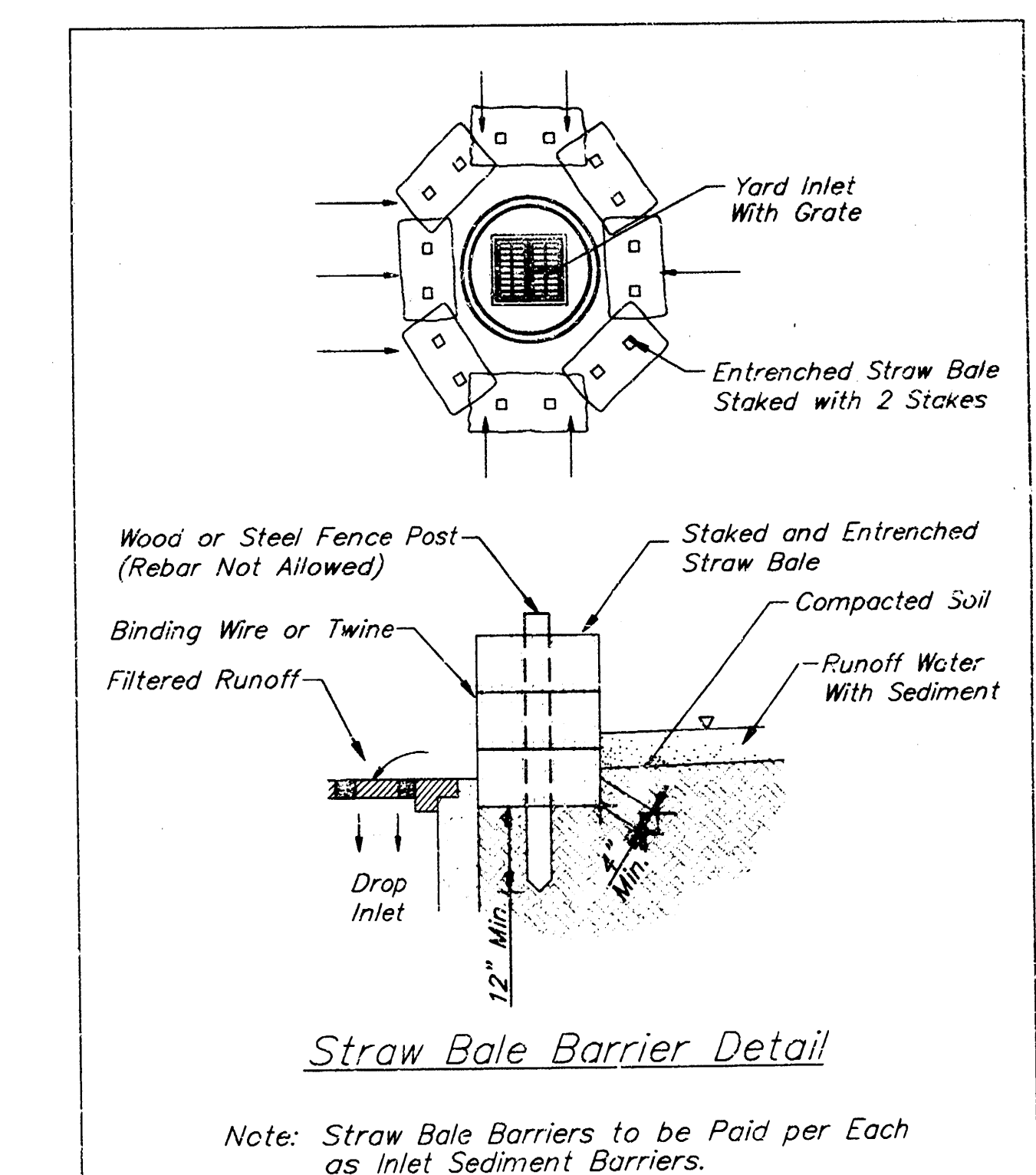
LINE #	STA.	TOP OF INLET	INLET FLOW	"A"	"B"
1	3+30.0	110.10	105.30	2.80'	2.0'

NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be approved by the engineer.



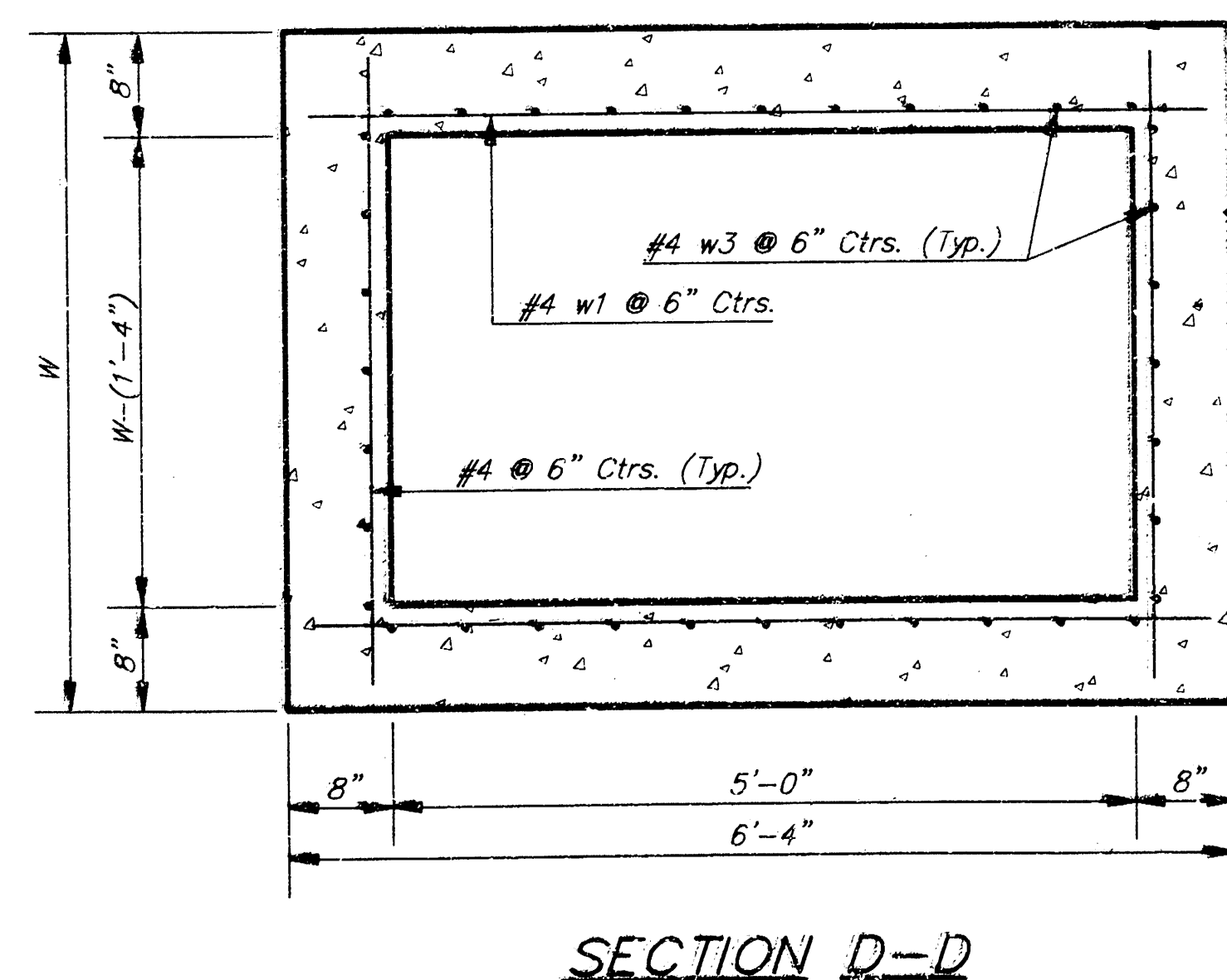
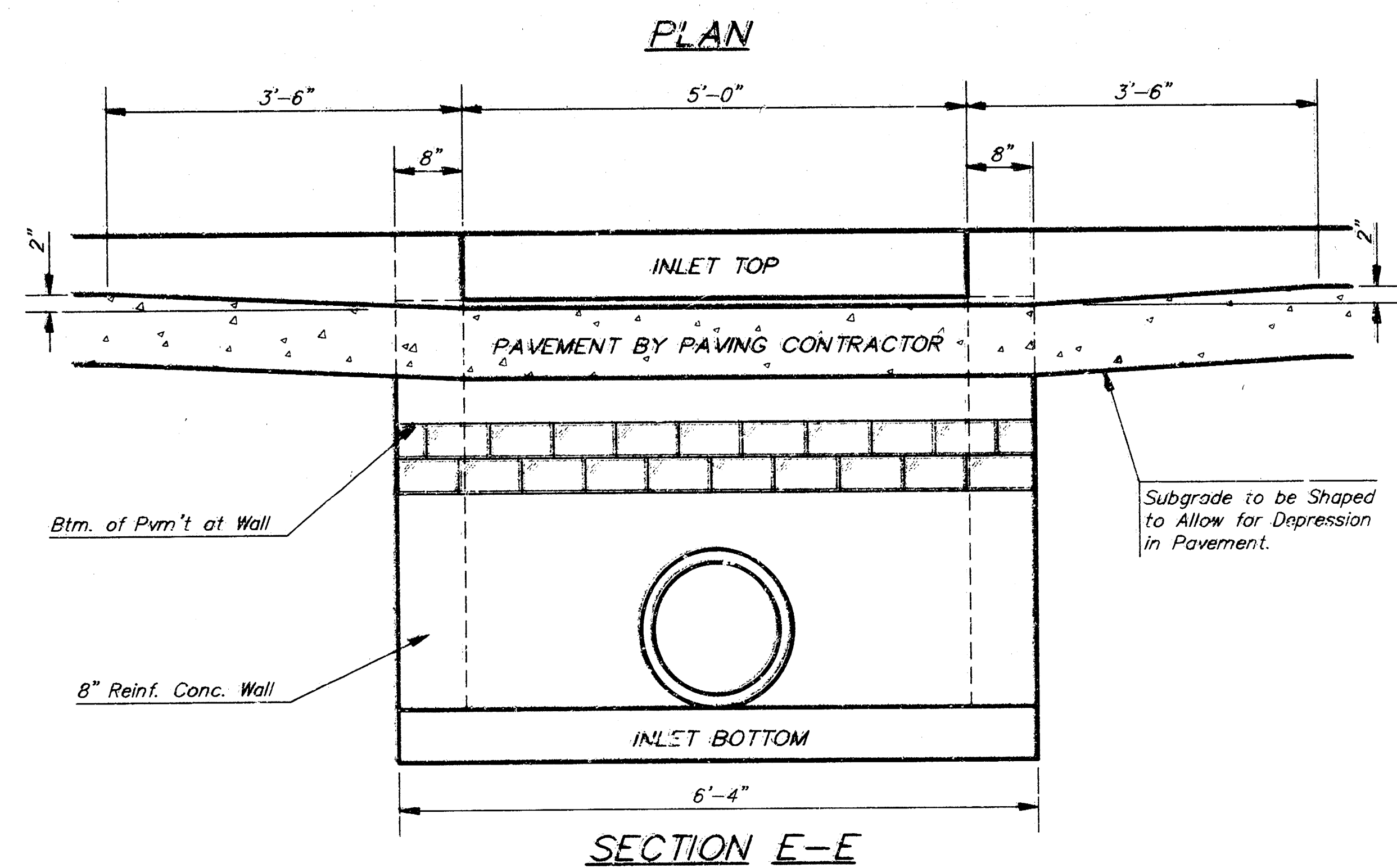
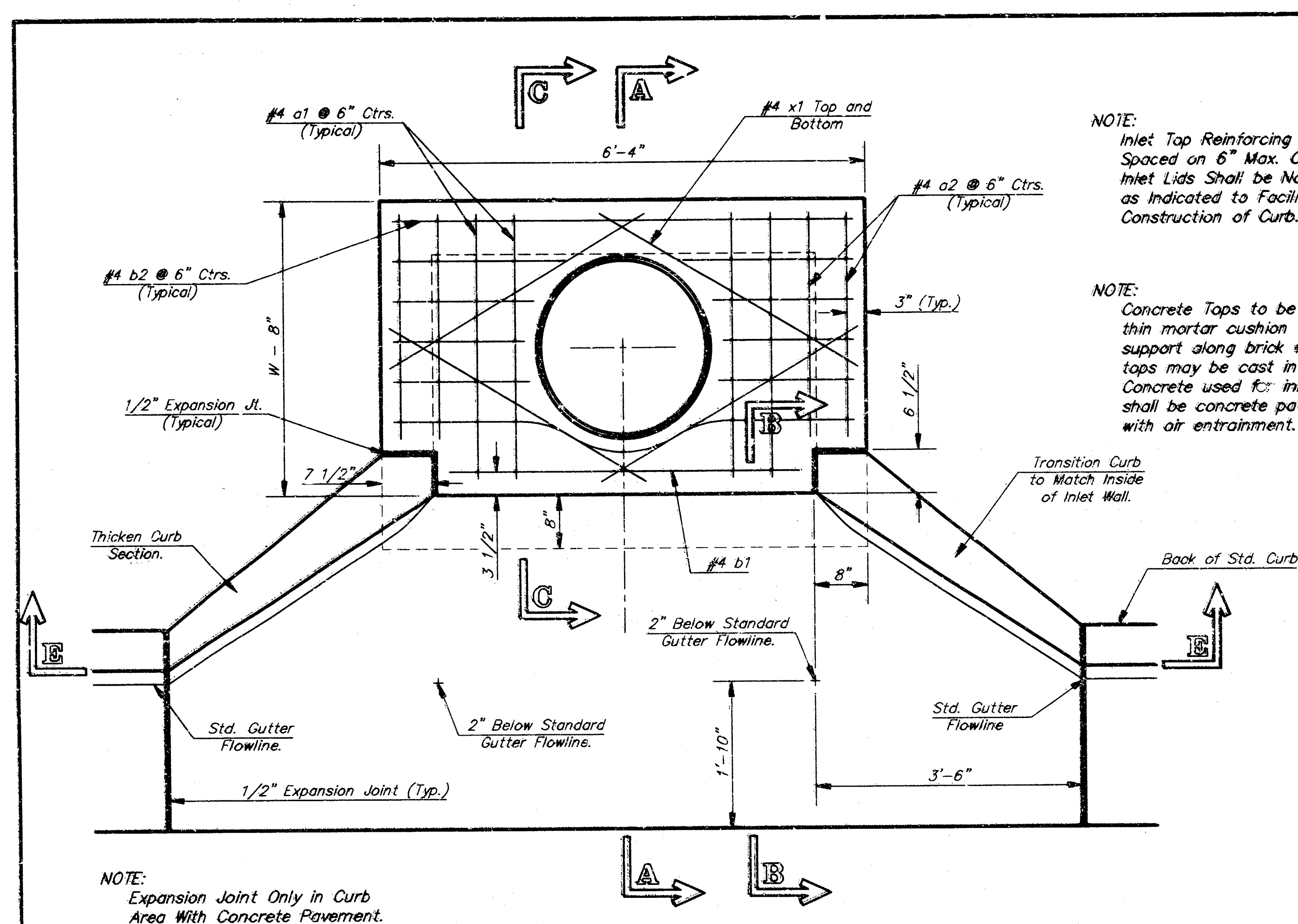
GENERAL NOTES

- Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in yard inlet bases shall conform to the requirements of concrete for concrete pavement construction as specified in the city standard paving specifications using city concrete cement mix without air entraining.
- Reinforcing steel shall be installed in the yard inlet bases and shall consist of no. 4 bars placed on 6" centers in both directions. The yard inlet base reinforcement shall be placed 6" above the bottom of the yard inlet base. All costs for furnishing and installing reinforcing steel shall be included in the unit price bid for the yard inlet.
- The floors of all yard inlet shall be shaped with flow channels such that the inlets will be self cleaning and free of areas where solids could be deposited. Flow channels shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Inlet floors shall have slopes of 3 inches per foot in the areas outside of the flow channels sloped toward the flow channels. Pipes laid through inlets shall have the top half removed to nest lines for the full inside diameter of the inlet. Inlet floors shall then be shaped around the bottom half of the pipe which forms the flow channel.
- Pipes installed within the excavation made for the inlet shall be cradled with concrete to the limits of the inlet excavation. When clay pipe is used, the cradle shall extend to the first joint outside the inlet. The cradle shall be terminated at the clay pipe joint in a manner which will maintain the flexibility of the joint. Cost of cradle within inlet excavation or to clay pipe joints adjacent to inlet shall be included in the unit price bid for the inlet.
- Inlet grate castings and inlet frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawing.
- The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
- Joints between inlet sections to be sealed with two wraps of extruded butyl rubber joint mastic meeting City of Wichita Type "P" Manhole Specifications.
- Special yard inlet shall be paid for at the unit price bid per each. All standard yard inlet diameters will be 4'.



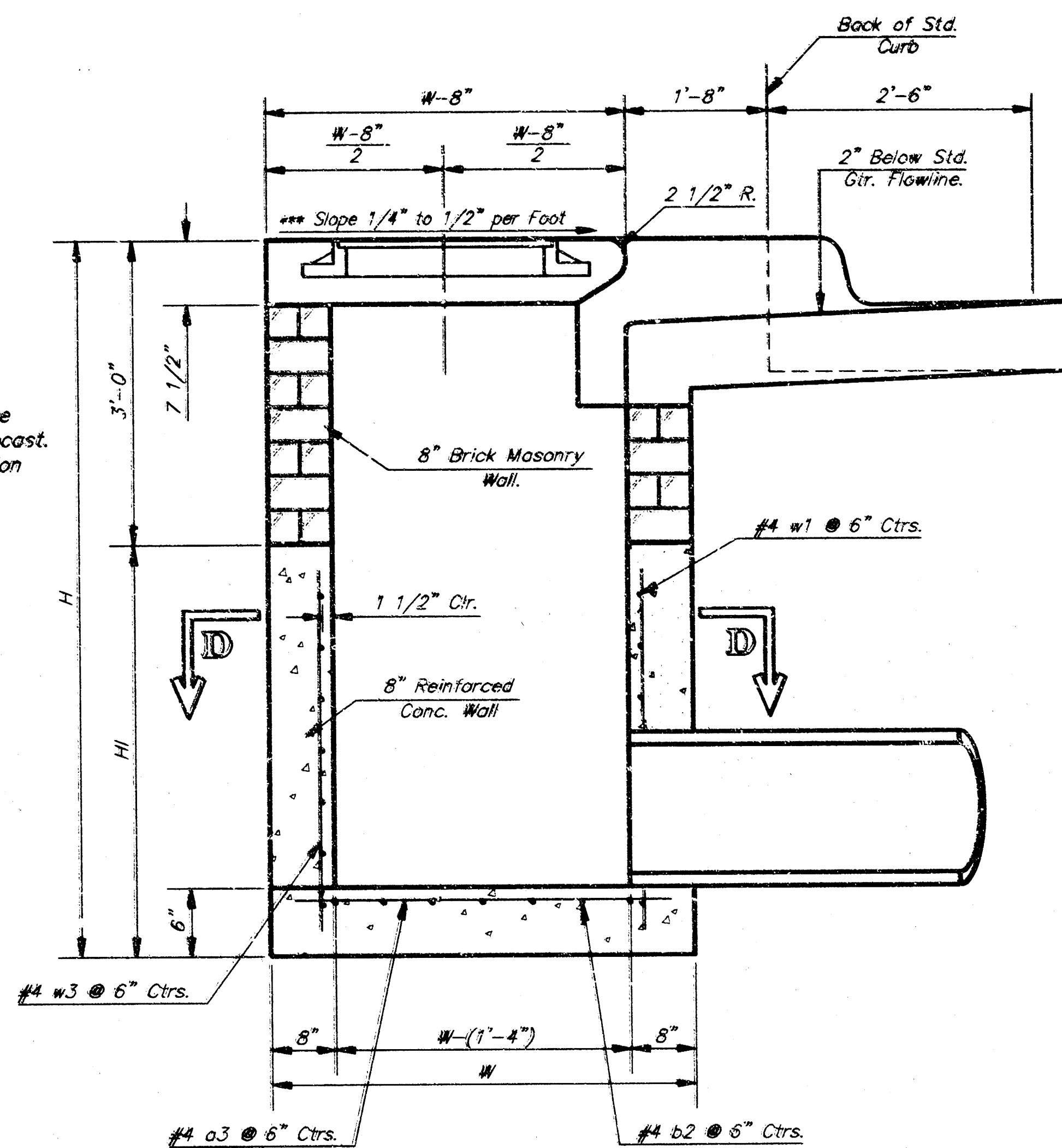
DEETER #2512 CATCH BASIN INLET GRATE & FRAME

NEWMAN UNIVERSITY			
SPECIAL YARD INLET			
STORM WATER SEWER IMPROVEMENTS			
BAUGHMAN COMPANY P. A.			
ENGINEERING, SURVEYING, & PLANNING			
316-282-7271 • 315 ELM • WICHITA, KANSAS 67211			
PROJECT NUMBER		SHEET	
819 PPS (607861)		3	
DESIGN	DRAWN	APPROVED	SCALE
STAFF	STAFF	STAFF	NONE
DATE		DATE	
7-8-98		NONE	

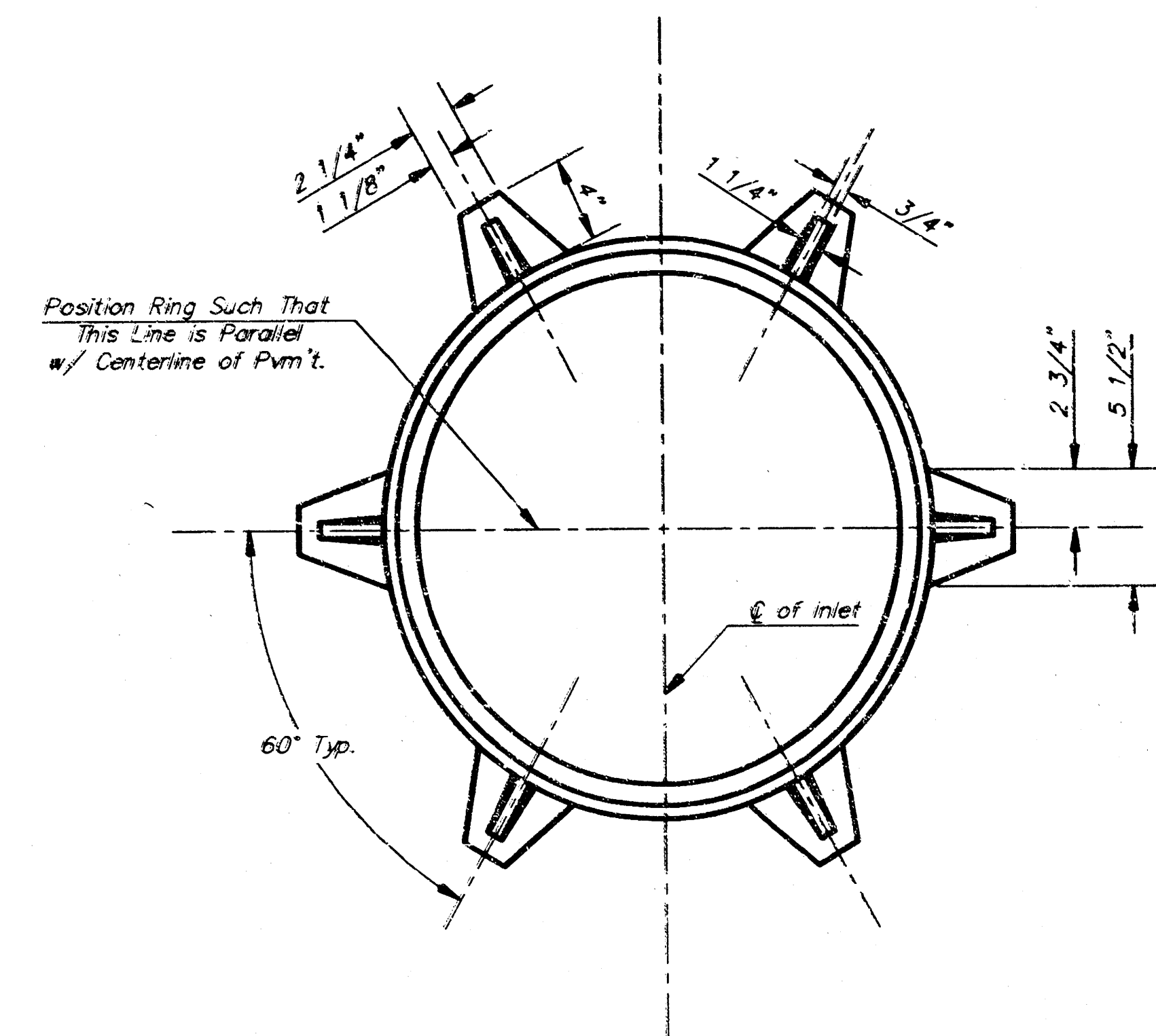
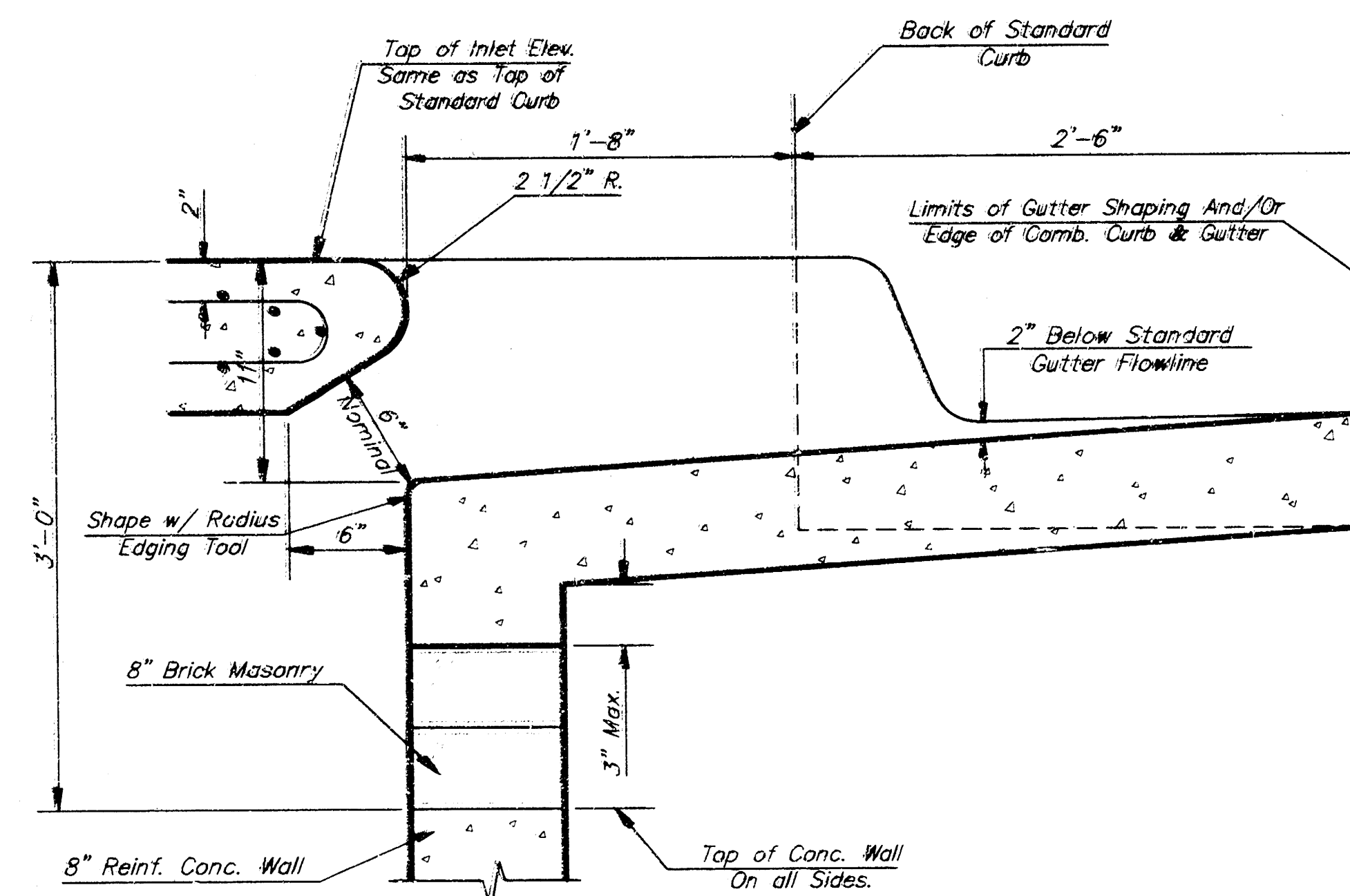


NOTE: Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids Shall be Notched Out as Indicated to Facilitate Construction of Curb.

NOTE: Concrete Tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix with air entrainment.



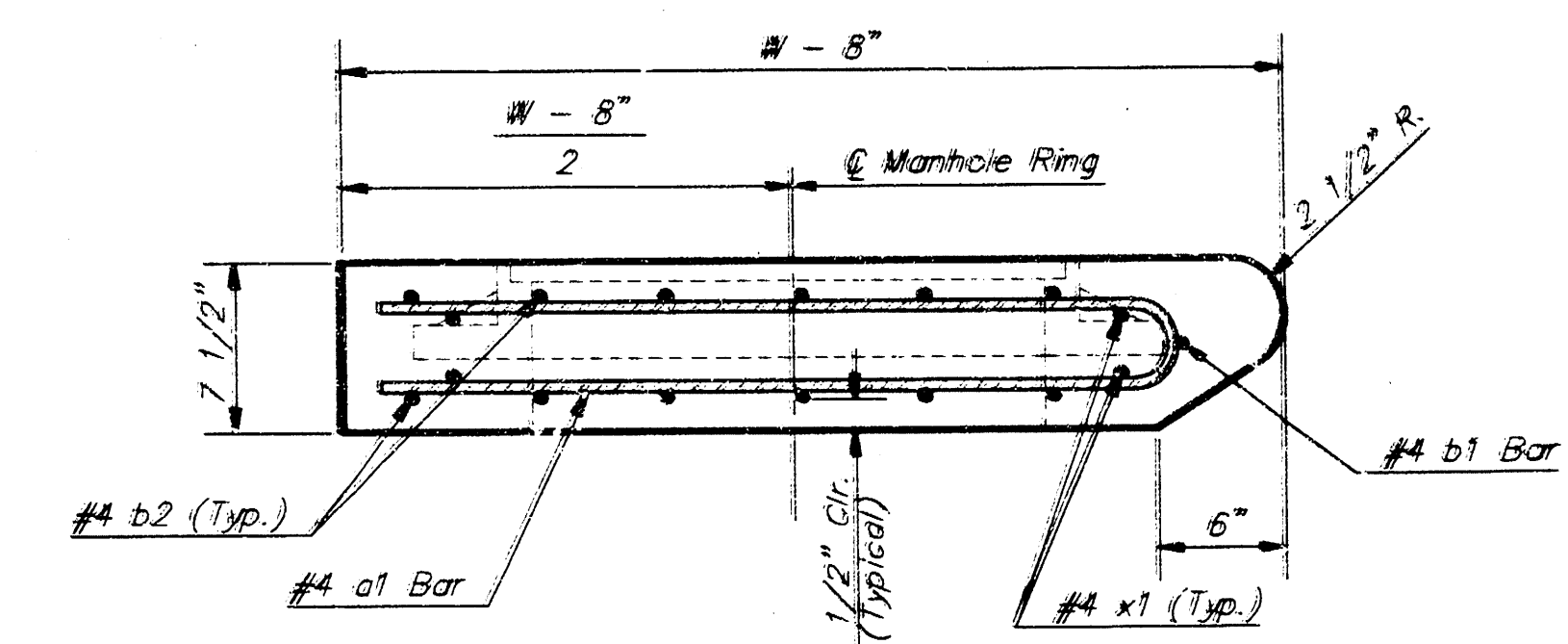
NOTE: Slope of Inlet tops to Match Sidewalk or Parking Slopes within Limits Indicated.



MANHOLE RING AND COVER

Weight = 180 Lbs.

*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



NOTE: Contractor shall have the option of constructing 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" and H=7'-0" or less.

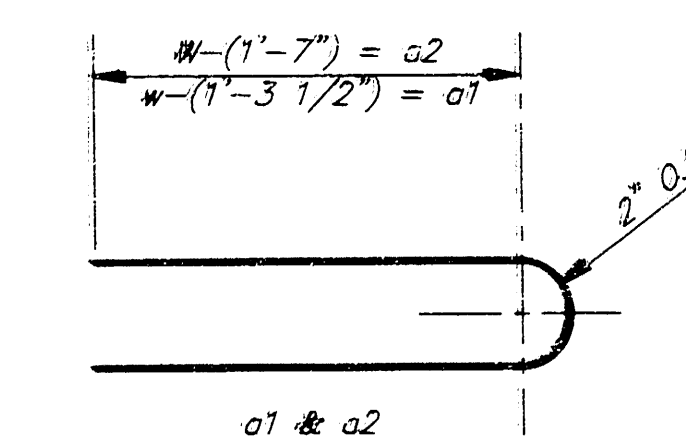
Additional curb and gutter construction necessary to connect set-back inlet to pavement will be paid for at the unit price bid for each inlet hookup.

Inlet invert shall be shaped with 8 sack sand mix concrete to create flow channels and to increase hydraulic efficiency such that the inlet will be self-cleaning between all inlet and/or outlet pipes.

The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.

PRECAST SLAB AND FLOOR REINFORCING																			
W = 4'-4"				W = 5'-4"				W = 6'-4"				W = 7'-4"				W = 8'-4"			
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH				
* o1	#4	6	6'-7"	6	8'-7"	6	10'-7"	6	12'-7"	6	14'-7"	6	14'-7"	6	14'-7"				
o2	#4	4	5'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"	4	14'-0"	4	14'-0"				
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1"	13	8'-1"	13	8'-1"	13	8'-1"				
b1	#4	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"				
* b2	#4	23	6'-7"	29	6'-7"	35	6'-7"	41	6'-7"	47	6'-7"	47	6'-7"	47	6'-7"				
x1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"	8	5'-2"	8	5'-2"				
WALL REINFORCING																			
W = 4'-8"				W = 5'-4"				W = 6'-8"				W = 7'-4"				W = 8'-8"			
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH				
w1	#4	⑦	6'-7"	⑦	6'-7"	⑦	6'-7"	⑦	6'-7"	⑦	6'-7"	⑦	6'-7"	⑦	6'-7"				
w2	#4	⑦	4'-1"	⑦	5'-1"	⑦	5'-1"	⑦	6'-1"	⑦	7'-1"	⑦	7'-1"	⑦	8'-1"				
w3	#4	32	②	36	②	40	②	44	②	48	②	48	②	48	②				

* Field Bend or Cut Reinforcing as Required for Clearance.
① 4 (H1 - 12") (H1 - 21") Rounded down to nearest 0.5"
② H1 - 3"



STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" x 6'-4" x 7 1/2"	21" & SMALLER	0.30±
5'-4"	4'-8" x 6'-4" x 7 1/2"	24" & 30"	0.51±
6'-4"	5'-8" x 6'-4" x 7 1/2"	36" & 42"	0.64±
7'-4"	6'-8" x 6'-4" x 7 1/2"	48" & 54"	0.77±
8'-4"	7'-8" x 6'-4" x 7 1/2"	60" & 66"	0.90±

Revised - Feb. 16, 1989

CITY OF WICHITA STANDARD TYPE 1A
Curb Inlet Details
INLET OPENING = 6'-4" x 4'-4"

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING & PLANNING

PROJECT NUMBER
819 PPS (837861)

DESIGN: [] DRAWN: [] APPROVED: [] DATE: 7-8-88 SCALE: None

SHEET
4
OF
4