STORM WATER SEWER

to serve

EAST TURNPIKE ENTRANCE 2ND ADDITION

Private Project Number

1092 PPS (607861)

CITY OF WICHITA, KANSAS

Michael E. Lindebak, P.E. City Engineer

MARCH 2001

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 887-2470

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

Cox Communications, Inc.	262-0661
K.P.L. Gas Service Company	383-8650
Kansas Gas & Electric Company	383-8600
Peoples Gas Company	942-8350
Southwestern Bell Telephone Company	1-571-2611
City of Wichita Water Dept.	268-4908
City of Wichita Traffic Engineering	269-4446

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.

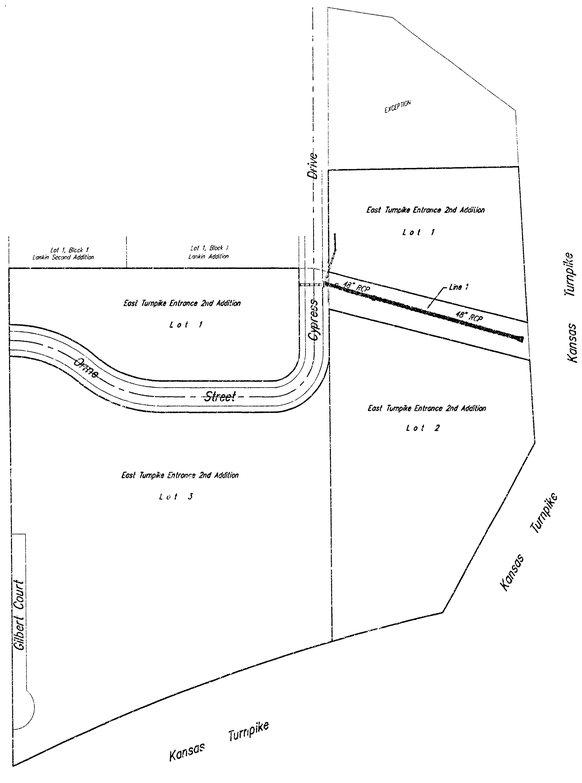
3. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

4. All areas disturbed by construction Shall be seeded, mulched and fertilized as follows:
   SEED--
   200 lbs./ac. of Rye grass and 400 lbs./ac. of K-31 Fescue, All Seed Shall Be Drilled.
   FERTILIZER--
   10-20-10 ratio or 12-24-12 ratio - 350 lbs./ac.
   MULCH--
   2 TONS PRAIRIE HAY / ACRE

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 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.

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 that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment.



1" = 150'

BENCHMARKS:

"□" On Top of Curb, 66.26' S. & 17.65' W. of the N.W. Corner Lot 1, East Turnpike Entrance Addition. Elev. = 1353.23

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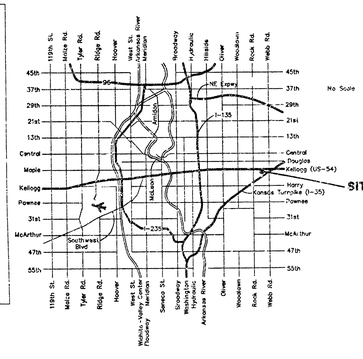
BOOKED 9-25-01 MCG D-519

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Storm Sewers VRH 3/8/01

NOTE TO CONTRACTORS

Installation, 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).



Vicinity Map

AsBuilt - 5/01 KK

07 MARCH 2001

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

F:\ENG\ETURNPIKE\SWSC01.DWG

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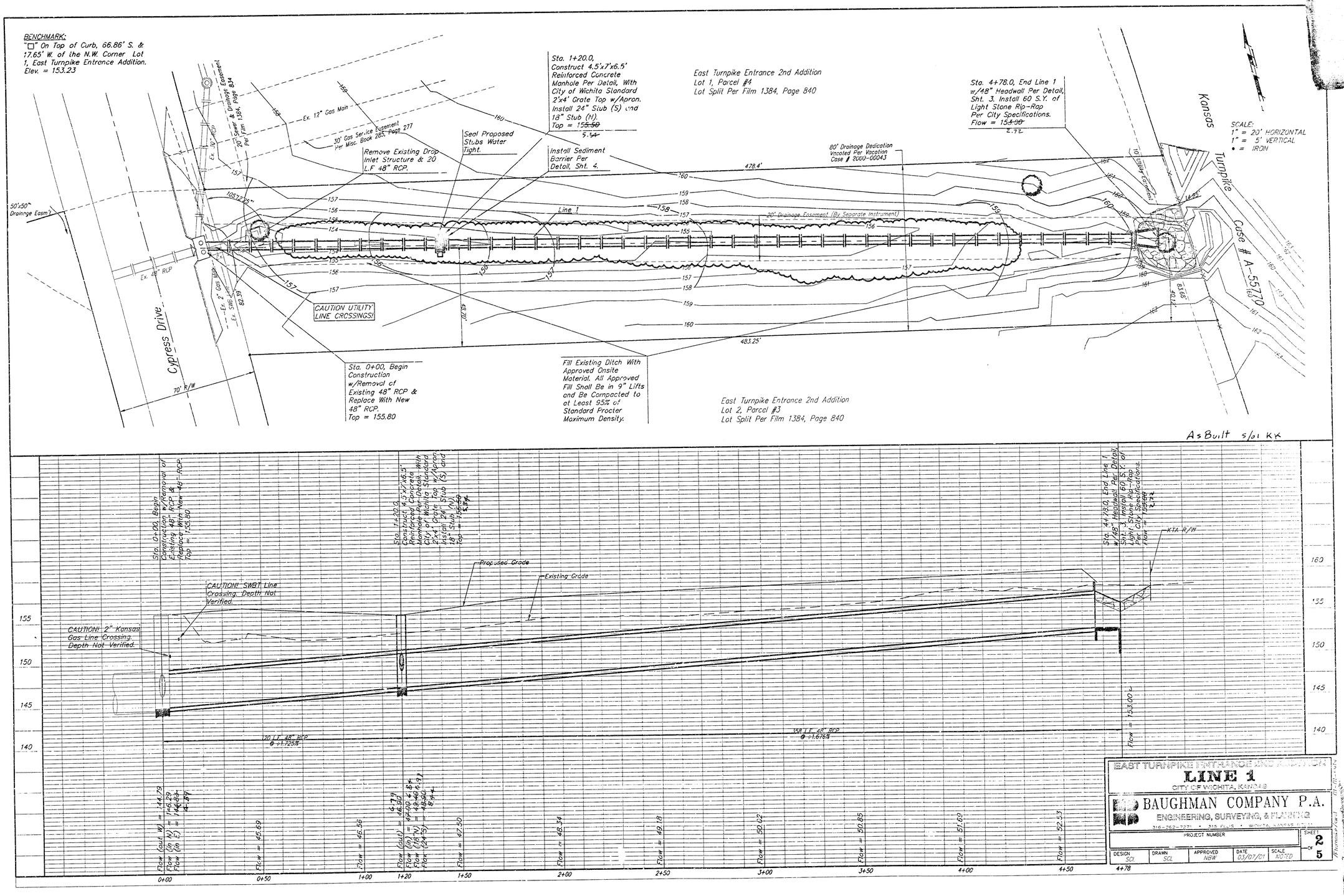
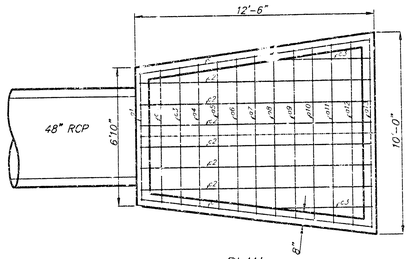
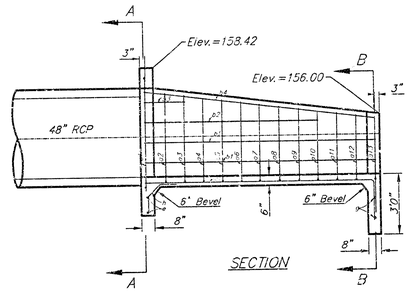

BENCHMARK:
"□" On Top of Curb, 66.86' S. & 17.65' W. of the N.W. Corner Lot 1, East Turnpike Entrance Addition. Elev. = 153.23
Sta. 1+20.0, Construct 4.5'x7'x6.5' Reinforced Concrete Manhole Per Detail, With City of Wichita Standard 2'x4' Grate Top w/Apron. Install 24" Stub (S) and 18" Stub (N). Top = 155.50
East Turnpike Entrance 2nd Addition Lot 1, Parcel #4 Lot Split Per Film 1384, Page 840
Sta. 4+78.0, End Line 1 w/48" Headwall Per Detail, Sht. 3. Install 60 S.Y. of Light Stone Rip-Rap Per City Specifications. Flow = 153.00
SCALE: 1" = 20' HORIZONTAL 1" = 5' VERTICAL • = IRON
Kansas Turnpike Case # A-55770
Remove Existing Drop Inlet Structure & 20 L.F. 48" RCP.
Seal Proposed Stubs Water Tight.
Install Sediment Barrier Per Detail, Sht. 4.
80' Drainage Dedication Vacated Per Vacation Case # 2000-00043
Line 1
20' Drainage Easement (By Separate Instrument)
CAUTION UTILITY LINE CROSSINGS!
Cypress Drive
Sta. 0+00, Begin Construction w/Removal of Existing 48" RCP & Replace With New 48" RCP. Top = 155.80
Fill Existing Ditch With Approved Onsite Material. All Approved Fill Shall Be in 9" Lifts and Be Compacted to at Least 95% of Standard Procter Maximum Density.
East Turnpike Entrance 2nd Addition Lot 2, Parcel #3 Lot Split Per Film 1384, Page 840
As Built 5/01 KK
Proposed Grade
Existing Grade
CAUTION! SWBT Line Crossing. Depth Not Verified.
CAUTION! 2" Kansas Gas Line Crossing. Depth Not Verified.
KTA R/W
120 L.F. 48" RCP @ +1.725%
358 L.F. 48" RCP @ +1.676%
Flow = 153.00
EAST TURNPIKE ENTRANCE 2ND ADDITION
LINE 1
CITY OF WICHITA, KANSAS
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
PROJECT NUMBER
SHEET 2 OF 5
DESIGN SCL
DRAWN SCL
APPROVED NBW
DATE 03/07/01
SCALE NOTED

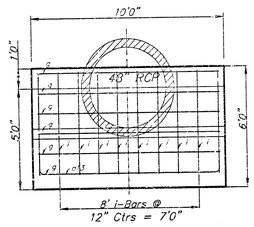
HEADWALL FOR 48" RCP W/3' SOIL SAVER



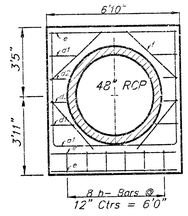
PLAN



SECTION



SECTION B–B

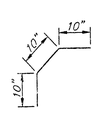


SECTION A–A

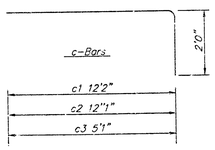
a-Bars

a1 5'5"	a2 4'5"	a3 4'3"	a4 4'1"	a5 4'0"	a6 3'11"	a7 3'10"	a8 3'9"	a9 3'7"	a10 3'5"	a11 3'4"	a12 3'2"	a13 4'8"

a1 6'4"
a2 6'7"
a3 6'10"
a4 7'1"
a5 7'4"
a6 7'7"
a7 7'10"
a8 8'1"
a9 8'4"
a10 8'7"
a11 8'10"
a12 9'1"
a13 9'4"



h-Bars



REBAR SCHEDULE

Bar	Shape	No.	Length	Weight
a1		1	18'4"	12.25
a2		1	17'7"	11.75
a3		1	17'11"	11.97
a4		1	18'3"	12.19
a5		1	18'8"	12.47
a6		1	19'1"	12.75
a7		1	19'6"	13.03
a8		1	19'10"	13.25
a9		1	20'3"	13.53
a10		1	20'7"	13.75
a11		1	21'0"	14.03
a12		1	21'4"	14.25
a13		1	23'4"	15.59
b1	——	4	12'1"	32.29
b2	——	2	9'1"	12.14
b3	——	2	2'1"	2.78
b4	——	2	12'2"	16.25
c1	——	2	14'2"	18.93
c2	——	6	14'1"	56.45
c3	——	2	7'1"	9.46
d1	——	4	1'5"	3.79
d2	——	4	9"	2.00
e	——	3	6'5"	12.86
f	——	4	3'4"	8.91
g	——	6	9'6"	38.08
h		6	2'6"	6.68
i	——	8	5'2"	27.61
Total Rebar				419.00 Lbs.
Concrete				18.0± C.Y.

A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall

* Field Bend or Cut Reinforcing as Required for Clearance.

All Concrete Reinforcement to be #4 Rebar

All Rebar to Have Min. of 1 1/2" Conc. Cover

GENERAL NOTES

1. ALL PIPES SHALL BE FLUSH CUT PRIOR TO BEING CAST INTO CONCRETE HEADWALL
2. CONCRETE USED IN HEADWALL CONSTRUCTION SHALL BE SAME AS PER CITY STANDARD PAVING MIX EXCEPT THAT IT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
3. ALL EXPOSED EDGES SHALL BE BEVELED 1/2".
4. REINFORCING STEEL SHALL COMPLY TO A.S.T.M. DESIGNATION A615 GRADE 60. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BAR UNLESS OTHERWISE NOTED.
5. THE "REIN. CONC. HEADWALL" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH IN PLACE WHICH SHALL INCLUDE ALL LABOR, MATERIALS, EXCAVATION, CONCRETE, REINFORCING STEEL AND ALL OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK. MATERIAL QUANTITIES SHOWN ARE FOR INFORMATION ONLY.

HEADWALL DETAIL

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-2691 • 316 641-5 • WICHITA, KANSAS 67202

PROJECT NUMBER				SHEET 3 OF 5
DESIGN SCL	DRAWN SCL	APPROVED	DATE	SCALE NONE

[Template\Headwall 4 - 10'-0" x 6'-10" - 48" RCP.dgn]

NOTES:

Surface of grate must be clean and free of dirt and debris.

Position Verti-Pro squarely on the inlet grate.

Install toggle bolt assembly (See Figure 2), the hold down plate must contact both the lower frame flange and grate. The toggle bolt must engage two bars on grate. Repeat on opposite sides.

The Verti-Pro has four (4) legs that unfold just like a card table (See Figure 3). Rotate legs to upright position on diagonal corners, this will support the upper framework on the Verti-Pro.

Align holes in each leg with the two (2) holes in upper frame. Insert a plastic retainer (or equal) in each of the holes from the outside in.

MAINTENANCE:

Inspect after each rain event. Remove debris and captured sediment when deposits reach 7" or 1/2 the height of the Verti-Pro. Remove captured debris from the filter fabric with a stiff bristle brush. (Frames are reuseable and easy to install).

ORDERING:

ALPINE STORMWATER MANAGEMENT COMPANY
4127 Broadway, Suite B
Grove City, Ohio 43123
Phone: 888-539-8240, Don Strawser, Sr., President

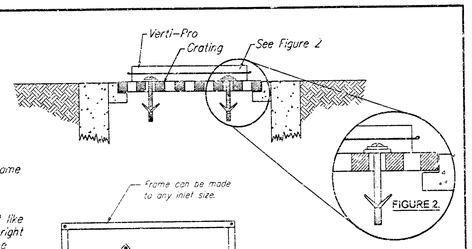
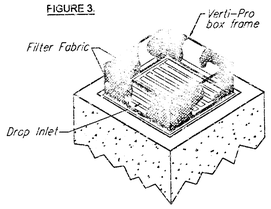
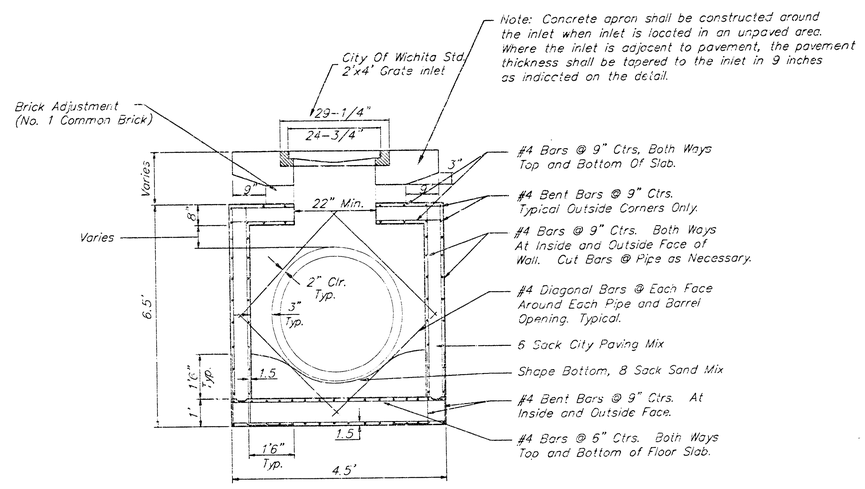


FIGURE 3.



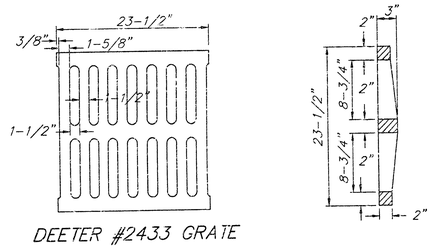
DROP INLET PROTECTION – The 'Verti-Pro' by Alpine™

For Yard and Parking Lot Inlet Usage



REINFORCED CONCRETE MANHOLE

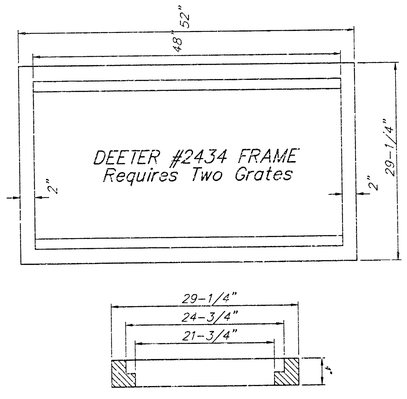
WITH 2'x4' INLET GRATE



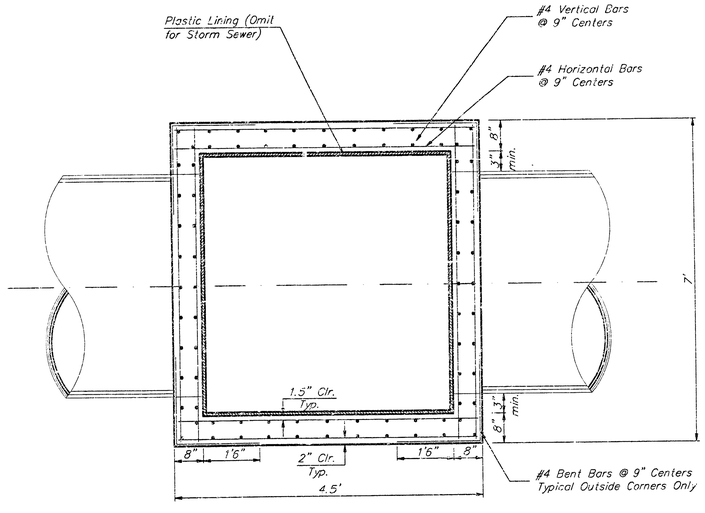
DEETER #2433 GRATE

24" x 24" Frame and Grate Detail

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.



Double 24" x 24" Frame Detail



TOP VIEW

CITY OF WICHITA STANDARD

REINFORCED CONCRETE MANHOLE

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

PROJECT NUMBER				SHEET 4 OF 5
DESIGN	DRAWN STAFF	APPROVED	DATE	SCALE NONE

/Plumbing/Manholes & Inlets/Inlets

EAST TURNPIKE ENTRANCE 2ND ADDITION

WICHITA, KANSAS.

State of Kansas } S.S.
Sedgwick County }

We, Baughman Company, Surveyors in aforesaid county and state do hereby certify that we have surveyed and platted "EAST TURNPIKE ENTRANCE 2ND ADDITION", Wichita, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed, described as beginning at a point 690 feet south of the N.W. Corner of the N.E¼ of Sec. 29, Twp 27-S, R-2-E; thence east parallel with and 690 feet south of the north line of said NE¼, 116.48 feet; thence southeasterly with a deflection angle to the right of 13°-36', a distance of 514.45 feet to the right-of-way line of the Kansas Turnpike as condemned in case A-55770; thence southerly, southwesterly and westerly along said Turnpike right-of-way to a point on the west line of said NE¼ said point being 1109.59 feet south of the point of beginning; thence north along the west line of said NE¼, 1109.59 feet to the point of beginning.

Baughman Company

14/17/74 Date — William L. Kaber — Surveyor

Know all men by these presents that we, the undersigned, have caused the land described in the surveyors certificate to be platted into lots, blocks streets and a drainage dedication to be known as "EAST TURNPIKE ENTRANCE 2ND ADDITION", Wichita, Kansas. The streets are hereby dedicated to and for the use of the public. The drainage dedication is hereby dedicated for drainage purposes. The Easements are hereby granted as indicated for the construction and maintenance of all public utilities and drainage.

University Mall Inc.

Ward R. Seldin — President

Stanley Silverman — Secretary

State of Nebraska } S.S.
Douglas County }

Be it remembered that on this 10th day of October 1974, before me a notary public in aforesaid county and state came Millard R. Seldin, President and Stanley Silverman, Secretary of University Mall Inc., to me known to be the same persons who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Notary Public

My Comm. Exp. [illegible] 1974

State of Kansas } S.S.
Sedgwick County }

This is to certify that this plat was filed for record in the office of the Register of Deeds this [illegible] day of [illegible] 1974, at [illegible] o'clock [illegible]; and is duly recorded.

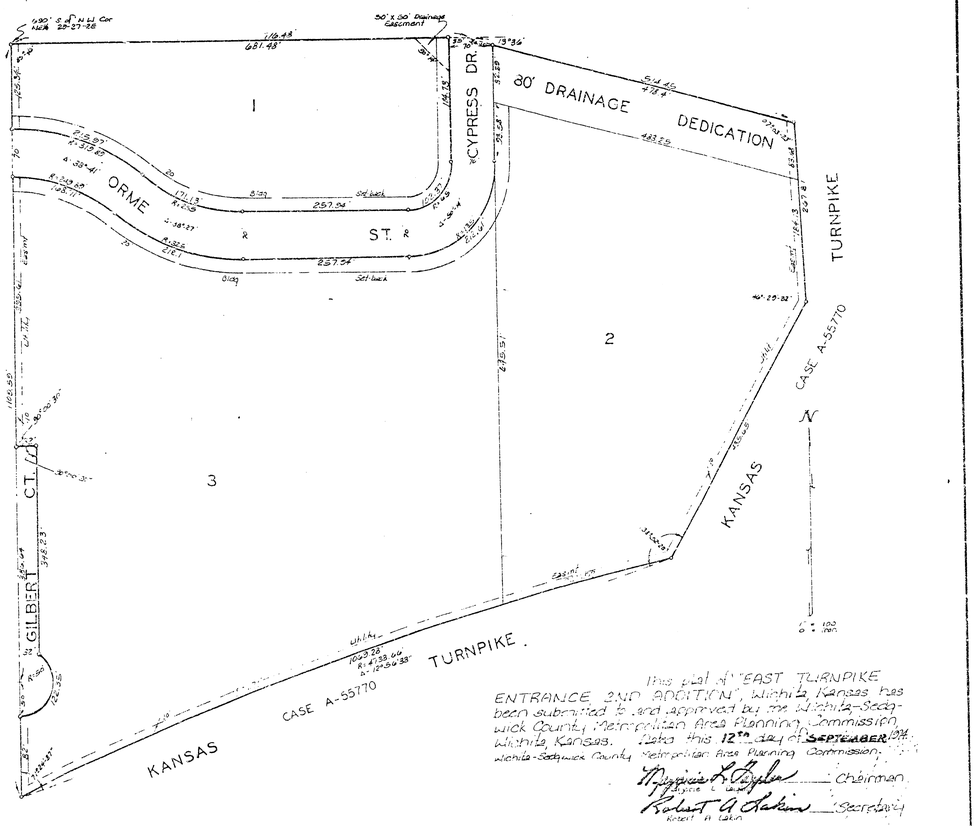
Register of Deeds

Deputy

Earl B. Gilbert

I, William D. Scorah, holder of a mortgage on the above described property do hereby consent to this plat of "EAST TURNPIKE ENTRANCE 2ND ADDITION", Wichita, Kansas.

William D. Scorah



This plat approved and all dedications shown hereon accepted by the Board of Commissioners, Sedgwick County, Kansas, this 20th day of January 1974.

Chairman

Commissioner

Commissioner

County Clerk

State of New Mexico } S.S.
County of Bernalillo }

Be it remembered that on this [illegible] day of [illegible] 1974, before me a notary public in aforesaid county and state came William D. Scorah, to me known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Notary Public

My Comm. Exp. [illegible] 1975

This plat of "EAST TURNPIKE ENTRANCE 2ND ADDITION", Wichita, Kansas has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas. Dated this 12th day of SEPTEMBER 1974.

Wichita-Sedgwick County Metropolitan Area Planning Commission.

Chairman

Robert A. Lakin — Secretary

This plat approved and all dedications shown hereon accepted by the Board of Commissioners of the City of Wichita, Kansas, this 17th day of [illegible] 1974.

Mayor

City Clerk

Entered on transfer record this 20th day of [illegible] 1975

County Clerk

G-2 4-19

11 10 11 81