STORM WATER SEWER IMPROVEMENTS

to serve

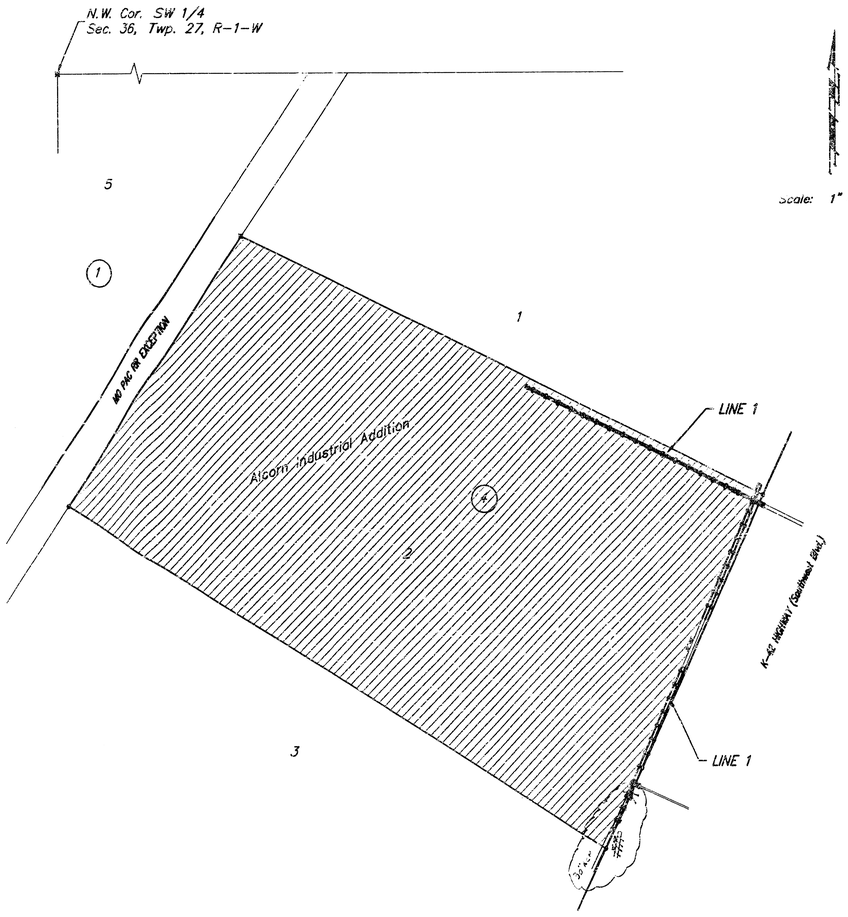
Lot 2, Block 4, Alcorn Industrial Addition

CITY OF WICHITA, KANSAS

Neil D. Cable, P.E. City Engineer

Private Project Number

1316 PPS (607861)



Scale: 1" = 50'

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:

Cox Communications	262-4270
Kansas Gas Service	1-888-482-1950
Westar Energy	383-8650
Aquila Energy	1-888-482-1950
Southwestern Bell	268-2245
City of Wichita Water Dept.	268-4553
City of Wichita Sewer Maint.	268-4024
City of Wichita Storm Sewer Maint.	268-4090
City of Wichita Traffic Maint.	268-4054
Conoco Pipeline Co.	1-800-231-2551
Williams Pipeline Co.	525-6600
Phillips Pipeline Co.	1-800-766-8230

2. Utility service lines, poles, valve boxes, meters, and etcetera 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. 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 on site location. Locations, 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. 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.

4. 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.

5. 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.

6. 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

BENCHMARKS:

"□" Cut Chiseled on Top of Headwall Near SE Corner of Lot 2, Block 4, Alcorn Industrial Addition
Elevation = 107.26 City Datum

Sheet Index

Title Sheet	1
Line 1	2-3
Standard Drop Inlet Detail	4
Reinf. Conc. Manhole Detail	5
Erosion Control BMP's	6
Copy of Plat	7

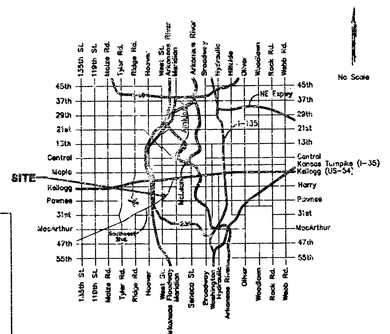
Booked
E-B
12/29/03
ROL

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA
Storm Water Sewers VRH 2/6/03

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).

Benefit District



Vicinity Map

As Built Noted 11/14/05 KM

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

Benchmark
"□" Cut Chiseled on Top of Headwall Near SE Corner of Lot 2, Block 4, Alcorn Industrial Addition
Elevation = 107.26 City Datum

Sta. 0+27, Line 1
Begin Const.
Connect to Exist. 33" RCP

Sta. 1+05.3, Line 1
Connect to Existing 30" RCP

Lot 2, Block 4
Alcorn Industrial Addition

Sta. 1+45.2, Line 1
Connect to Existing 30" RCP

Proposed 8" Wtr Line Crossing

Lot 3, Block 4
Alcorn Industrial Addition

Asphalt Paving

Asphalt Paving

Lot 1, Block 4
Alcorn Industrial Addition

SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON

52.73'
31.40'
180°
R/W
Ex. 30" RCP
Proposed Water Vault
90°49'09"
89°10'51"
6.73'
90°
SSMH
Ex. 8" Wtr
8" SS
290'(P)
4.89'
90°00'00"
R/W
PP
PP
20'

Install 22 S.Y. Light Stone Rip-Rap as indicated.

Concrete
Curb
Curb Curb
Concrete
Curb

Sta. 0+00, Line 1
Begin Construction of 30" R.C.P. W/ End Section.

Construct Erosion Control Straw Bale Barrier Around Inlet. See Detail, Sheet 6.

Sta. 0+11.6, Line 1
Construct Standard Double Drop Inlet (2'x4')
Install 10± L.F. 12" RCP (SE)
Remove Existing End Section & Connect new 12" RCP to Existing 12" CMP
Top Elev. = 107.05

K-42 HIGHWAY (Southwest Blvd.)

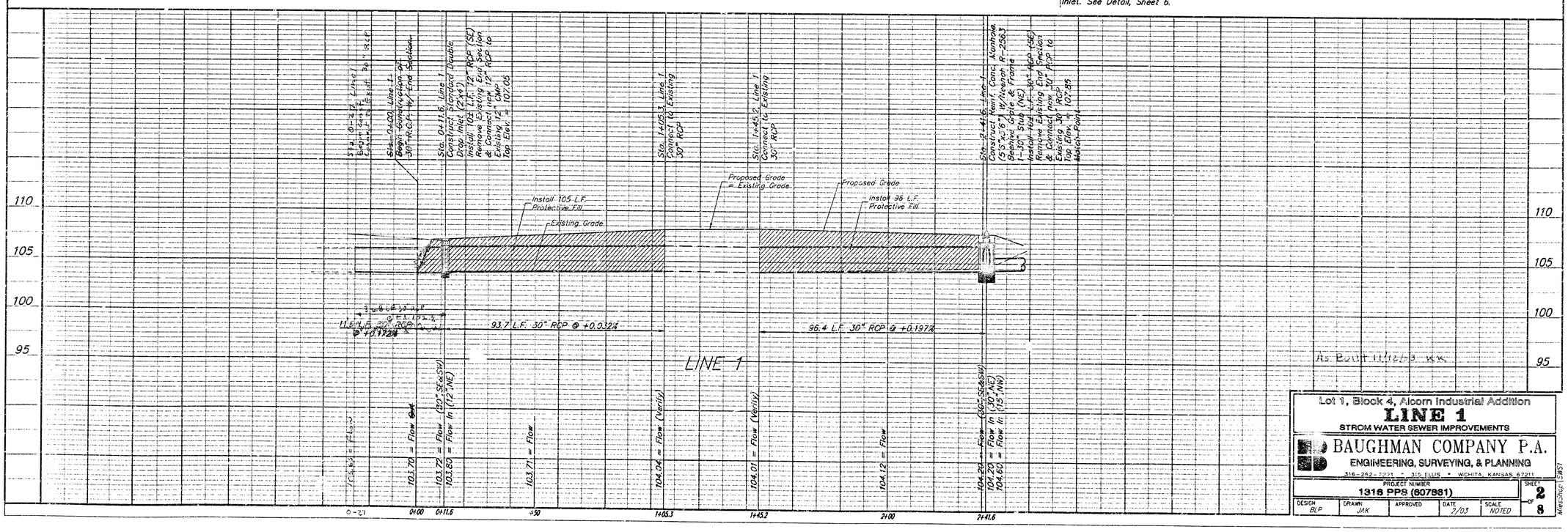
Note: Protective Fill to be Placed and Compacted per City Specs Prior to Water Line Installation.

CAUTION!
O/H Elec.
Crossing

Sta. 2+41.6, Line 1
Construct Reinf. Conc. Manhole (5'6"x5'6") W/Neenah R-2563 Beehive Grate & Frame
Install 10 L.F. 24" Pipe w/End Section (NE)
Install 10± L.F. 30" RCP (SE)
Remove Existing End Section & Connect new 30" RCP to Existing 30" RCP
Top Elev. = 107.85
Match Point

CAUTION!
O/H Elec., 8" Water, & 8" San. Sewer In Area

Construct Erosion Control Straw Bale Barrier Around Inlet. See Detail, Sheet 6.



Lot 1, Block 4, Alcorn Industrial Addition
LINE 1
STROM WATER SEWER IMPROVEMENTS

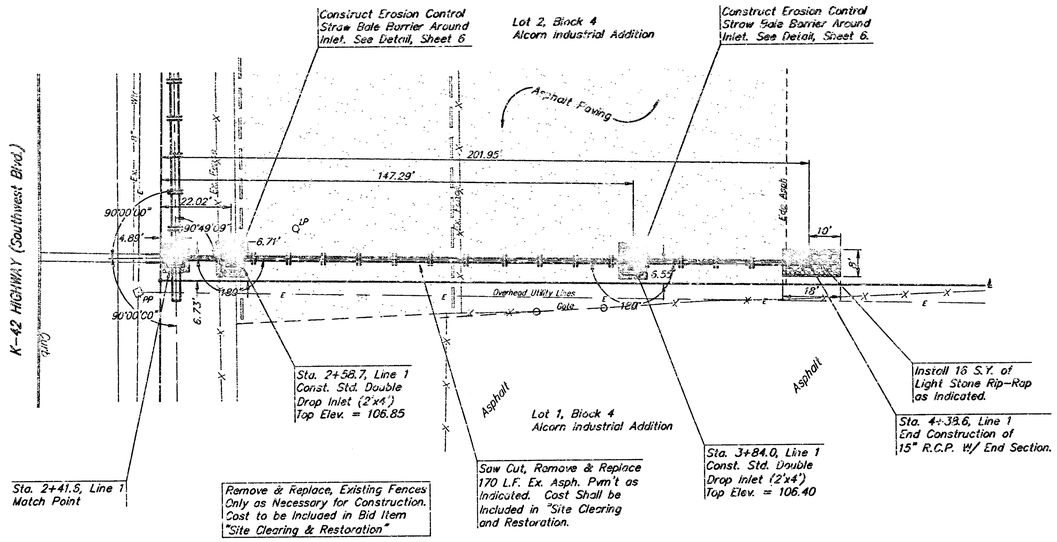
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-2221 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER	SHEET
1316 PPS (607881)	2 OF 8

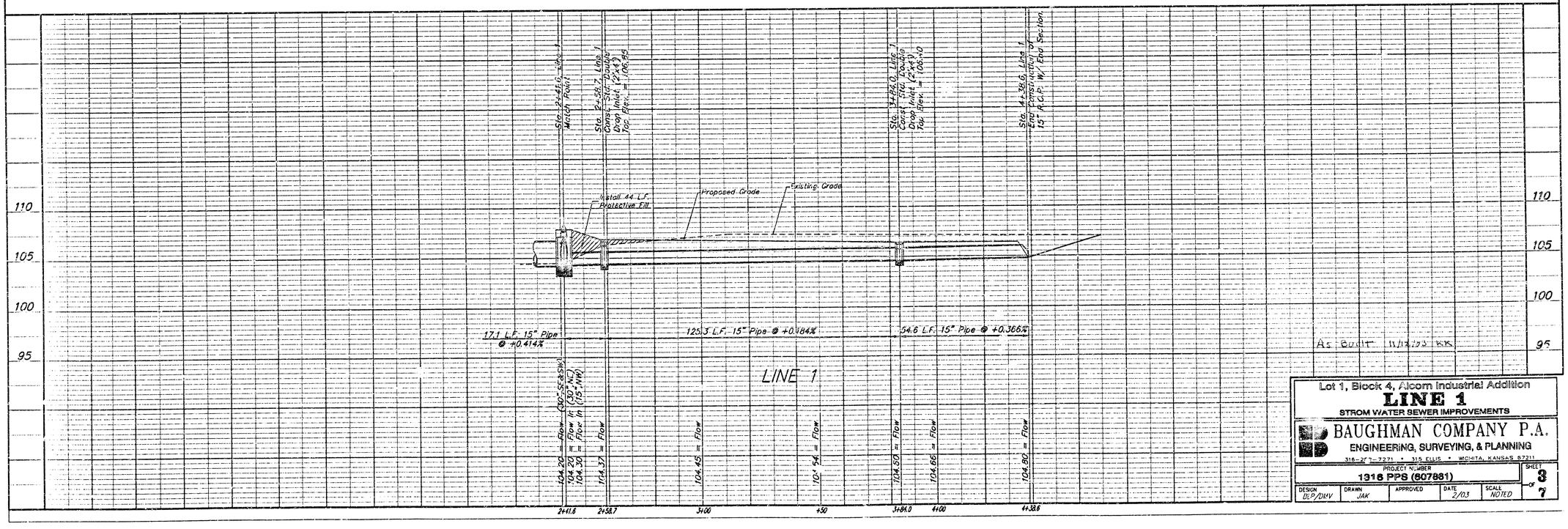
DESIGN	DRAWN	APPROVED	DATE	SCALE
BLP	JAK		2/03	NOTED

MKESHEET.DWG

Benchmark
"□" Cut Chiseled on Top of Headwall Near SE Corner of Lot 2, Block 4, Alcorn Industrial Addition
Elevation = 107.26 City Datum



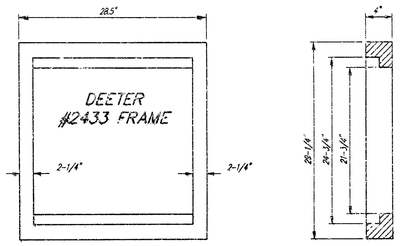
SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
• = IRON

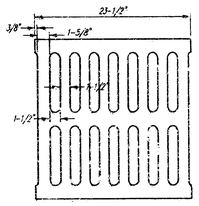


Lot 1, Block 4, Alcorn Industrial Addition
LINE 1
STROM WATER SEWER IMPROVEMENTS

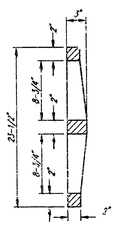
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-267-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER					SHEET
1316 PPS (607881)					3 OF 7
DESIGN	DRAWN	APPROVED	DATE	SCALE	
DLP/DMV	JAK		2/03	NOTED	



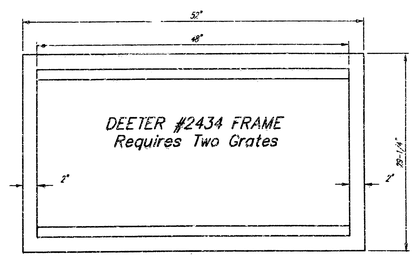


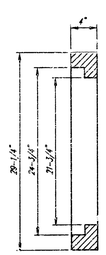
DEETER #2433 GRATE



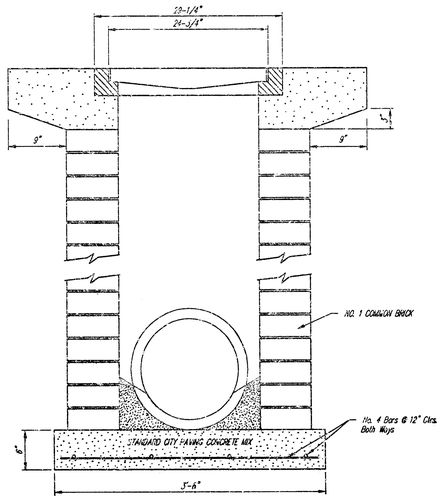
NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be approved by the engineer.

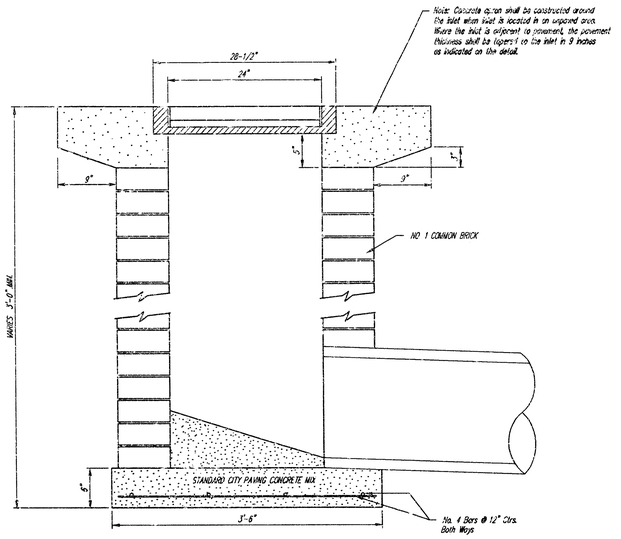
24" x 24" Frame and Grate Detail

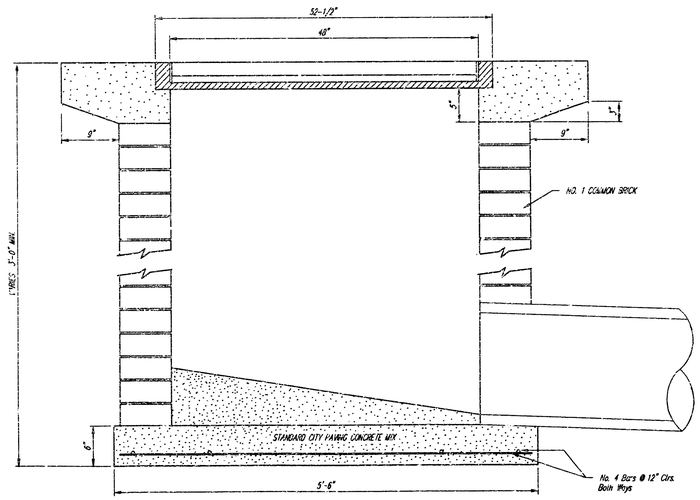




Double 24" x 24" Frame Detail







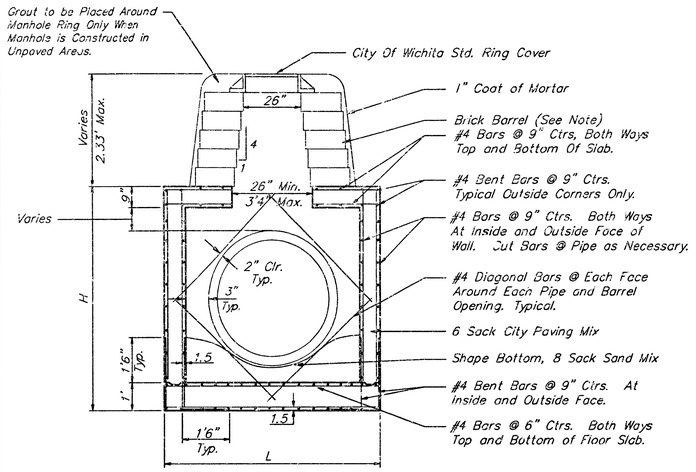
City of Wichita Standard
Drop Inlet

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-2271 • 315 ELLIS • WICHITA, KANSAS 67211

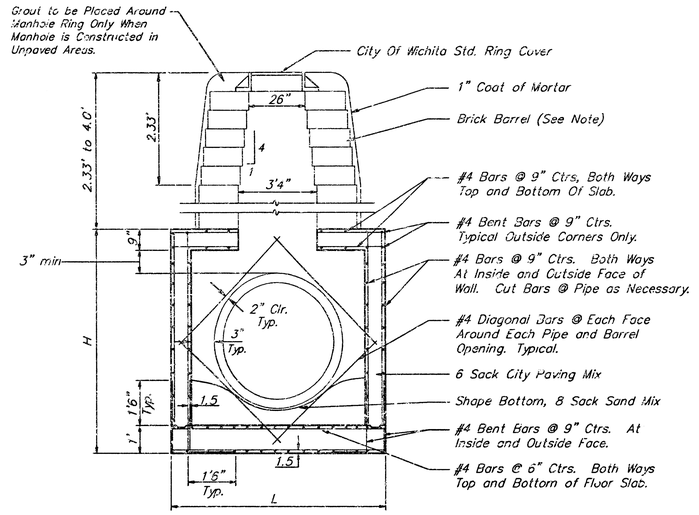
PROJECT NUMBER	SHEET
1316 PPS (60786)	4 OF 7

DESIGN	DRAWN	APPROVED	DATE	SCALE
C.O.W.	Staff		2/03	NONE

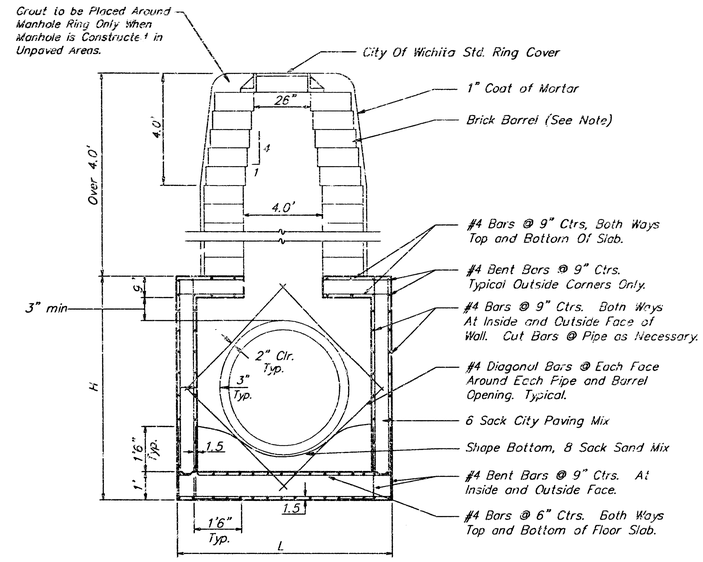
Drop inlet



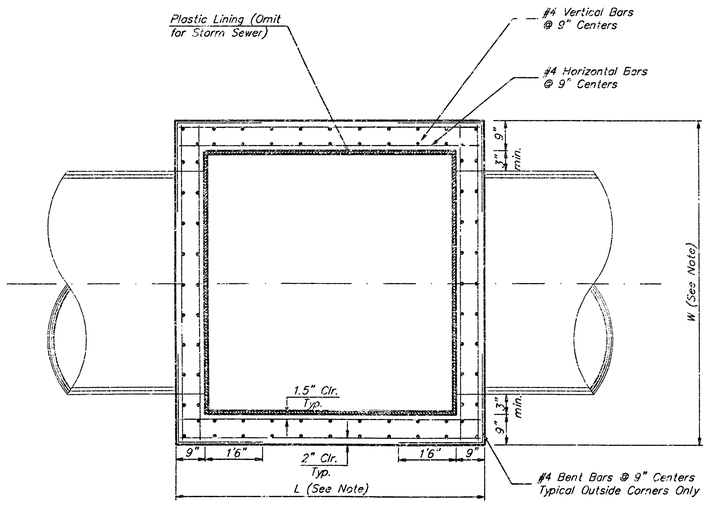
REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 0' TO 2.33'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: OVER 4.0'



TOP VIEW

Notes:

Brick barrels less than 16' deep shall have 8" walls except when located within public street or alley pavement; then the wall shall be 12". Brick barrels more than 16' deep shall have 12" walls. The "L" and "W" dimensions shall be a minimum of 5'6" for brick barrels with 8" walls and 6'2" for brick barrels with 12" walls when the brick barrels are over 4' in height. Completed manhole shall be without leaks and watertight.

Concrete wall thicknesses shown represents manhole type located within traffic bearing areas. Manhole wall, base, & top dimensions may be reduced when manholes are not subject to vehicle loads. Contractor shall be required to submit shop drawings to the Engineer for approval.

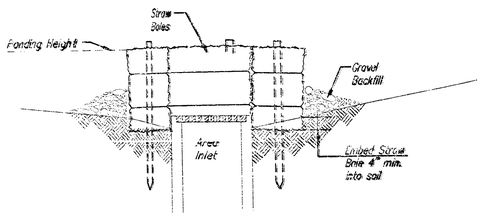
CITY OF WICHITA STANDARD
REINFORCED CONCRETE MANHOLE

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 113 ELLIS • WICHITA, KANSAS 67211

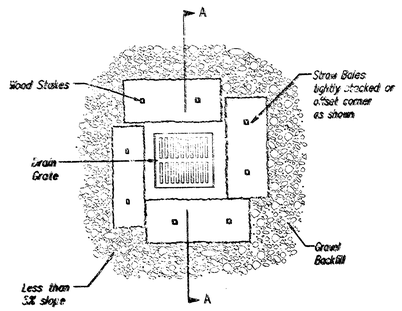
PROJECT NUMBER	SHEET
1316 PPS (607861)	5 of 7

DESIGN	DRAWN	APPROVED	DATE	SCALE
C.O.W.	STAFF		2/03	NONE

Universal Plan Library



SECTION A-A



STRAW BALE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

Material Specification:

Bale area inlet barriers should be constructed of wheat straw, oat straw, prairie hay, or bromegrass hay that is free of weeds declared noxious by the Kansas State Board of Agriculture.
The stakes used to anchor the bales should be a hardwood material with the following minimum dimensions: 2" square (nominal) by 4' long.

Placement:

Bale area inlet barriers should be placed directly around the perimeter of a drop inlet. When a bale area inlet barrier is located near an inlet that has steep approach slopes, the storage capacity behind the barrier is drastically reduced. Timely removal of sediment must occur for a barrier to operate properly in this location.

Proper Installation Method:

Excavate a trench around the perimeter of the area inlet that is at least 4" deep by a bale's width wide.
Place the bales in the trench, making sure that they are butted tightly. Some bales may need to be shortened to fit into the trench around the area inlet. Two stakes should be driven through each bale, approximately 6" to 8" in from the bale ends.
Stakes should be driven at least 12" into the ground.
Once all the bales have been installed and anchored, place the excavated soil against the receiving side of the barrier and compact it. The compacted soil should be no more than 3" to 4" deep.
Note: When a bale area inlet barrier is placed in a shallow median ditch, make sure that the top of the barrier is not higher than the paved road. In this configuration, water may spread onto the roadway causing a hazardous condition.

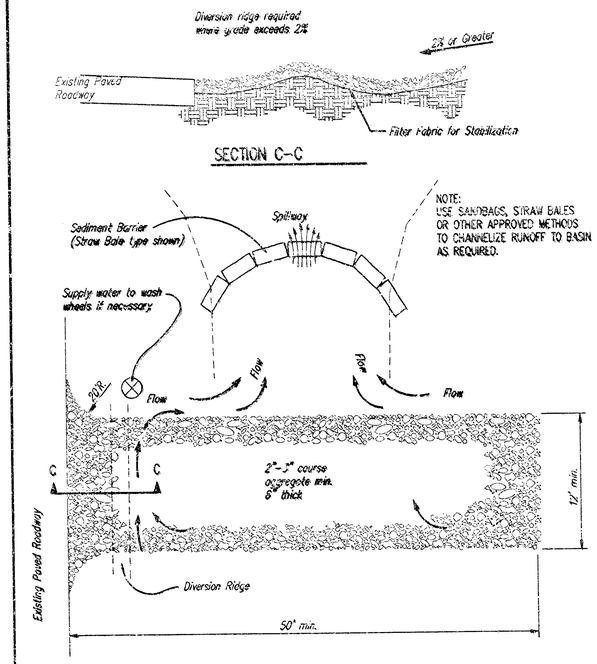
List of common placement installation mistakes to avoid:

Bales should be placed directly against the perimeter of the area inlet. This allows overtopping water to flow directly into the inlet instead of onto nearby soil causing scour.
Bale area inlet barriers must be dug into the ground. Bales at ground level do not work because they allow water to flow under the barrier.

Inspection and Maintenance:

Bale area inlet barriers should be inspected every 7 days and within 24 hours of a rainfall 1/2" or more. The following is a list of questions that should be addressed during each inspection:

Does water flow under the area inlet barrier?
Does water flow through spaces between abutting bales?
Are any bales dislodged?
Are bales decomposing due to age and/or water damage?
Does sediment need to be removed from behind the area inlet barrier?



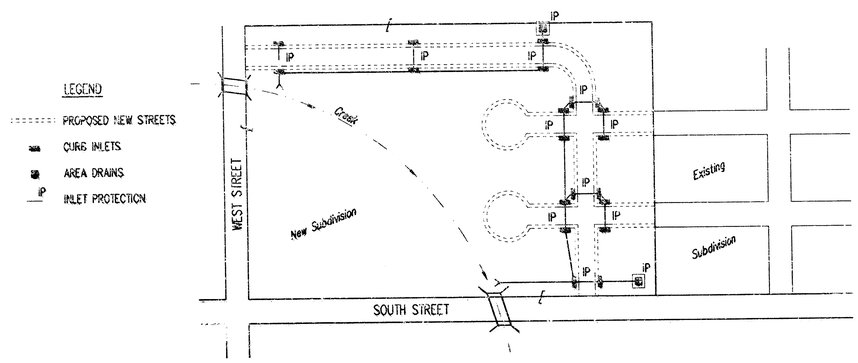
SECTION C-C

STABILIZED CONSTRUCTION ENTRANCE

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT POND AS SHOWN ABOVE.
4. DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

PHASE 2 - INSTALLATION OF STORM SEWER



1. DURING THIS PHASE OF SUBDIVISION DEVELOPMENT, ALL BMP'S REQUIRED IN PHASE 1 SHALL REMAIN IN PLACE AND BE MAINTAINED.
2. AS NEW STORM SEWERS, WITH INLETS, ARE INSTALLED, THE STORM SEWERS MUST NOW BE PROTECTED SO ALL NEW INLETS BECOME POINTS OF COMPLIANCE.
3. AREA DRAINS - AS SOON AS WATER CAN FLOW INTO THESE DRAINS, HAYBALE OR SILT FENCE PROTECTION WILL BE INSTALLED AROUND THEM.
4. CURB OPENING INLETS - AS SOON AS WATER CAN FLOW INTO THESE DRAINS, INLET PROTECTION BMP'S MUST BE INSTALLED. SEE PHASE 3 - STREET CONSTRUCTION.
5. THE STORM SEWER CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THESE BMP'S. IF WATER CANNOT FLOW INTO CURB INLETS UNTIL STREET CONSTRUCTION IS COMPLETE, THEN STREET CONTRACTOR WILL INSTALL INLET PROTECTION.
6. THE SUBDIVISION DEVELOPER WILL MAINTAIN THESE BMP'S ONCE INSTALLED.
7. ONCE ALL DISTURBED GROUND DRAINING TO AN INLET HAS BEEN RESTABILIZED WITH GRASS OR SOD, THE SUBDIVISION DEVELOPER WILL BE RESPONSIBLE FOR PERMANENTLY REMOVING THE INLET PROTECTION.

CITY OF WICHITA

SOIL EROSION BMPS SUBDIVISION DEVELOPMENT PROCESS

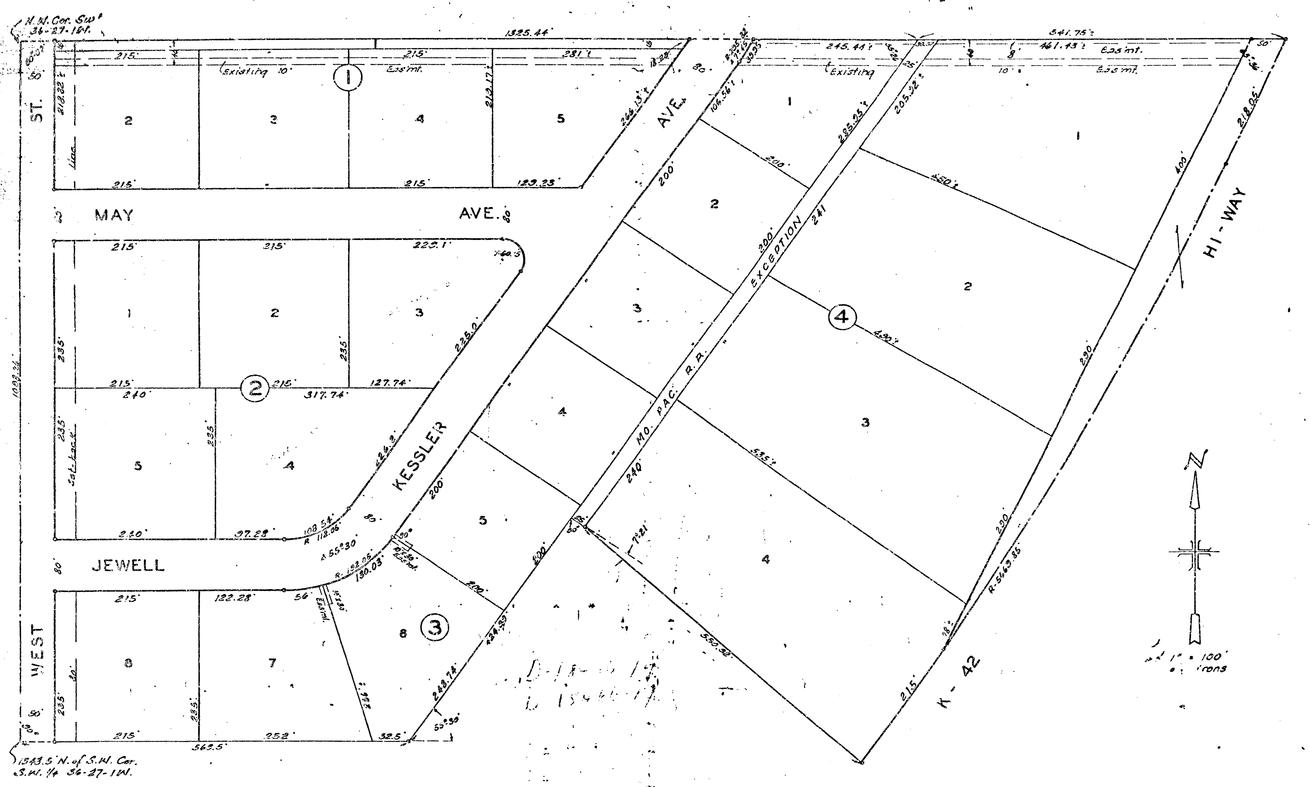
CHRISTOPHER M. CARRIER, P.E.
STORM WATER ENGINEER

PROJECT NUMBER
1316 PPS (607861)

DATE 2/03

ALCORN INDUSTRIAL ADDITION

TO WICHITA KANSAS



State of Kansas } S.S.
Sedgwick County }

I, Clyde M. Baughman, Surveyor in aforesaid county and state do hereby certify that I have surveyed and platted "ALCORN INDUSTRIAL ADDITION" to Wichita, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed, described as follows: Beginning at a point on the west line of the S.W. ¼ of Sec. 36-T-27-S; R-1-W., 1543.5 feet north of the S.W. Cor. of said section, thence east at right angles to said west line 563.5 feet; thence with an angle to the left of 55° 30' 424.39 feet; thence with an angle to the right of 90° a distance of 25 feet; thence with an angle to the right of 7° 21', 550.32 feet to a point on the westerly R-O-W of K-42 Hi-way; thence northeasterly along said R-O-W to the north line of said S.W. ¼ thence West to the N.W. Cor. of said ¼ Sec. thence south to the place of beginning. Except the Mo. Pac. Spur Track R.R. right of way.

Clyde M. Baughman, Surveyor

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 7th day of March 1957, at ten o'clock A M; and is duly recorded.

#. 6516 Ruth E. Deering Register of Deeds.

Know all men by these presents that we Paul Slagle and Golda M. Slagle, his wife and William P. Alcorn and and Ruth E. Alcorn, his wife; and Nova L. Alcorn have caused the land described in the surveyors certificate to be platted into lots, blocks, streets and avenues to be known as "ALCORN INDUSTRIAL ADDITION" to Wichita, Kansas. Easements are hereby granted as indicated for the construction and maintenance of all public utilities. The streets and avenues are hereby dedicated to and for the use of the public.

Nova L. Alcorn William P. Alcorn

Ruth E. Alcorn Golda M. Slagle

Paul Slagle

State of Kansas } S.S.
Sedgwick County }

Be it remembered that on this 21 day of February 1957, before me a notary public in aforesaid county and state came Paul Slagle and Golda M. Slagle, his wife; William P. Alcorn and Ruth E. Alcorn, his wife and Nova L. Alcorn, 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

This plat of "ALCORN INDUSTRIAL ADDITION" to Wichita, Kansas, has been submitted to and considered by the City Planning Commission of Wichita, Kansas, and is hereby transmitted to the Board of City Commissioners with the recommendation that such plat be approved as proposed. Dated this 19 day of February 1957.

The City Planning Commission of Wich.ta, Kansas.

Approved by the ...ioners this 26 ... '57.

... Mayor

... City Clerk

Approved by the Board of County Commissioners this 6th day of March 1957.

... County Clerk

Entered on transfer record this 7th day of March 1957.

... County Clerk