APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary & Storm Sewers JRH 8/26/03

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).

0 40 80

Benchmarks

#1 - "□" Chiseled on top of curb at W. end of median located in 34th St. North approx. 100' E of the NE Cor. of Lot 1, Block G, Ridge Port North 3rd Addition.

Elev. = 142.80 (City Datum)

#2 - "□" Chiseled on Top of Curb at East end of curb radius located nea. NW corner of Lot 1, Block G, Ridge Port North 3rd Addition.

Elevation = 144.87 (City Datum)

STORM SEWER IMPROVEMENTS & SANITARY SEWER IMPROVEMENTS TO SERVE

RIDGE PORT NORTH 3RD ADDITION

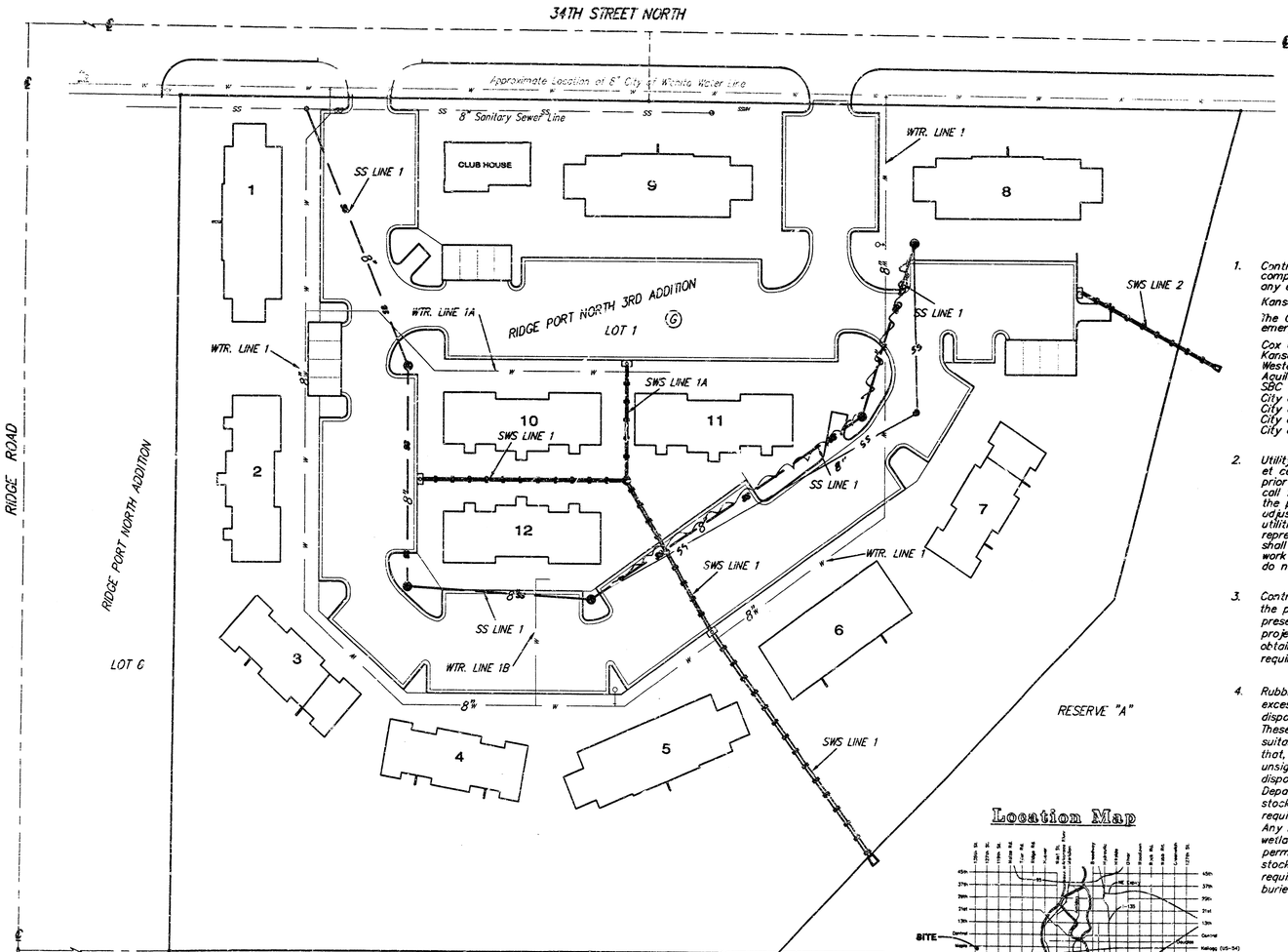
LOT 1

Private Project Number: 1372 PPS (607861)

CITY OF WICHITA, KANSAS

Neil Cable, P.E. City Engineer

AUGUST 2003



Location Map

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BMP Details	12
Copy of plat	

Legal Description

Lot 1, Block G, Ridge Port North 3rd Addition, Wichita, Sedgwick County, Kansas.

General Notes

1. Contractor will be required to provide notice to utility companies a minimum of forty-eight (48) 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 Company	1-888-482-1950
Westar Energy (Electric)	383-8650
Aquila Energy (Gas)	1-800-303-0357
SBC (Telephone)	1-800-286-8313
City of Wichita Water Dept. (Water)	268-4908
City of Wichita Sewer Maint. (SS)	268-4024
City of Wichita Storm Sewer Maint.	268-4090
City of Wichita Traffic Maint.	268-4034

2. Utility service lines, poles, valve boxes, meters, et cetera 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 and shall be field verified. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

3. Contractor shall not start work on the project until the project inspector is assigned to the project and is present on the site. Contractor shall not start on the project until all necessary bonds and permits have been obtained. Any work done without inspection will be required to be uncovered for inspection.

4. 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. 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.

5. All sewers & appurtenances shall be installed in accordance with the most recent edition of City of Wichita, Kansas Standard Specifications for the Construction of City Projects.

6. All disturbed R/W areas not intended for pavement or sidewalk construction shall be seeded with Kansas Premium Fescue Blend at a rate of 8 lb./1000 Sq. Ft., fertilized with a 16-20-6 ratio at a rate of 4 lb./1000 Sq. Ft., and mulched with Prairie Hay at a rate of 92 lb./1000 Sq. Ft. Mulch shall be "patted" with forks or punched into soil to reduce loss due to wind.

7. The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractor's proposed method for maintaining sewage flow shall be approved by the Engineer. Cost of maintaining flow of sewage through construction will not be paid for directly and this cost shall be considered as subsidiary to the other pay items of work.

8. Trees and shrubs 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.

9. The Contractor shall give all property owners/or tenants of developed property directly abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.

10. No land clearing or grading shall begin until all applicable erosion control measures have been installed. This project is subject to this SWPP Plan. The Contractor shall comply with any unusual requirements as necessary for the site to be in compliance during construction, as per this plan and Local City specifications.

11. An NSPDE Permit Application has been submitted to the State. A copy of this application and the SWPP plan can be found at the job site office for the duration of the construction process.

Legend

- SS — Existing Sanitary Sewer Line
- SS — Proposed Sanitary Sewer
- Existing Storm Sewer
- Proposed Storm Sewer
- W — Existing Water
- W — Proposed Water Line

RDL 12/9/03
.PDF SS

AS-BUILT
11/3/03 K.E.MILLER
Water
Sewer

SWS BOOKLET
E-7
12/12/03
RDL

DWAN LEE PELLETIER
LICENSED
13744
08/26/03
KANSAS
PROFESSIONAL ENGINEER

K:\emp\Ridge Port Apartments\sewer cover.dwg August '03—DLC

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

14 09 01 11

Benchmarks:

#1 – "□" Chiseled on top of curb at W. end of median located in 34th St. North approx. 100' E of the NE Cor. of Lot 1, Block G, Ridge Port North 3rd Addition.

Elev. = 142.80 (City Datum)

#2 – "□" Chiseled on Top of Curb at East end of curb radius located near NW corner of Lot 1, Block G, Ridge Port North 3rd Addition.

Elevation = 144.67 (City Datum)

Sta. 0+00, Begin Line 1, Begin Construction of SWS Line with 24" Headwall. Extend 24" RCP (NW) Install 20 S.Y. Light Stone Rip-Rap as Shown, per City Codes.

EXISTING LAKE
STATIC SURFACE = 132.50±

RESERVE "A"

EXISTING LAKE

DRAINAGE EASEMENT

LINE 1

PROPOSED BUILDING
No. 5
FFE: 142.85

Sta. 1+62.9, Line 1, Construct Std. Type 1 Curb Inlet. (5'x3'). Top Elev. = 141.80 Install (Sediment Barrier per Detail, Sheet 5)

RIDGE PORT NORTH 3RD ADDITION

LOT 1

PROPOSED BUILDING
No. 6
FFE: 142.70

PROPOSED BUILDING
No. 11
FFE: 145.25

PROPOSED BUILDING
No. 10
FFE: 145.55

Sta. 4+00.7, End Line 1, Construct Std. Type 1 Curb Inlet. (5'x3'). Top Elev. = 143.75 Install (Sediment Barrier per Detail, Sheet 5)

CAUTION!! Proposed 8" SS Line Near

CAUTION!! Proposed 8" Wtr. Line Crossing

CAUTION!! Proposed 6" SS Line Crossing

Sta. 2+73.3, Line 1= Sta. 0+00, Line 1A, Construct Special Yard Inlet. Top Elev. = 144.00 install (Sediment Barrier per Detail, Sheet 11)

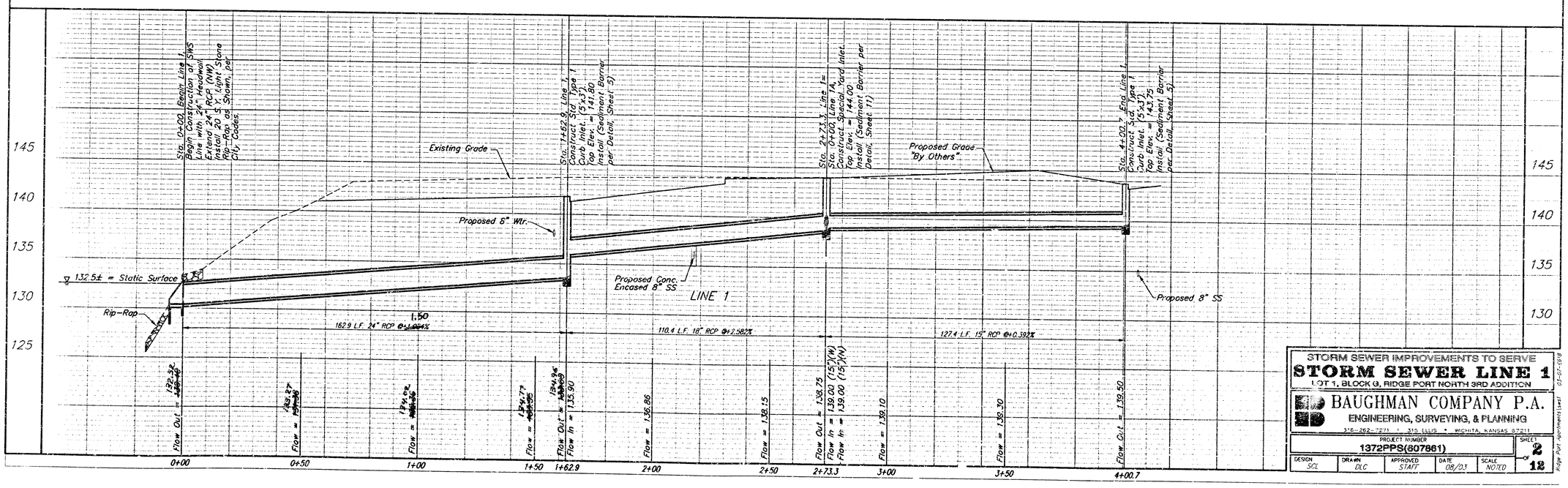
LINE 1A

NORTH PROPERTY LINE

34TH ST NORTH

NW Cor. Lot 1, Block G, Ridge Port North 3rd Addition.

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



STORM SEWER IMPROVEMENTS TO SERVE
STORM SEWER LINE 1
LOT 1, BLOCK G, RIDGE PORT NORTH 3RD ADDITION

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PROJECT NUMBER 1372PPS(607861)

DESIGN	DRAWN	APPROVED	DATE	SCALE	SHEET
SCL	DLC	STAFF	08/03	NOTED	2 OF 12

03-07-1918

Ridge Port Apartments (west)

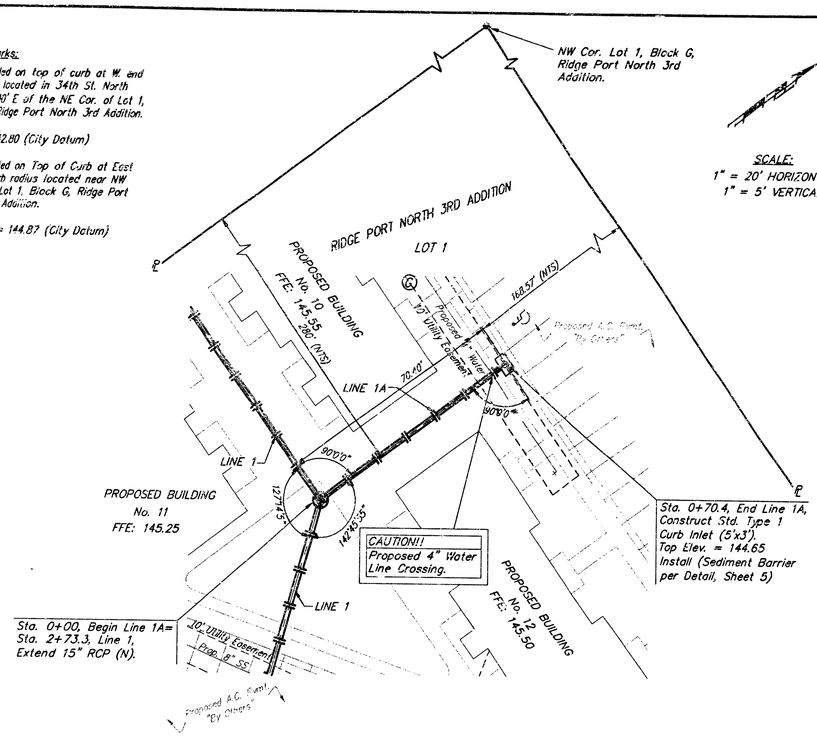
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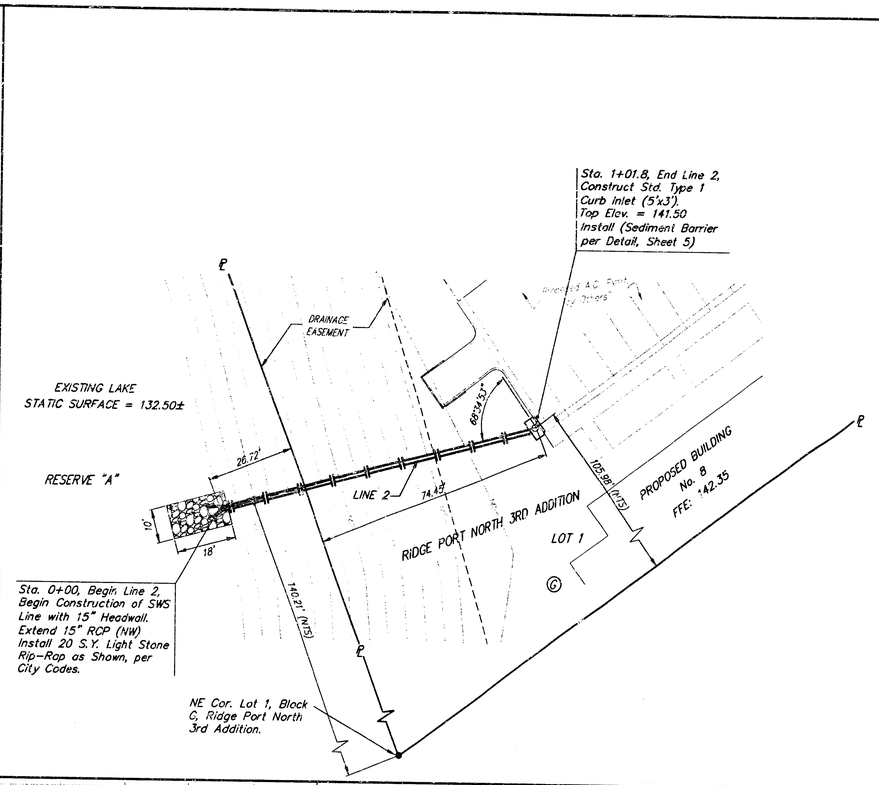
#1 – "□" Chiseled on top of curb at W. end of median located in 34th St. North approx. 100' E of the NE Cor. of Lot 1, Block G, Ridge Port North 3rd Addition.

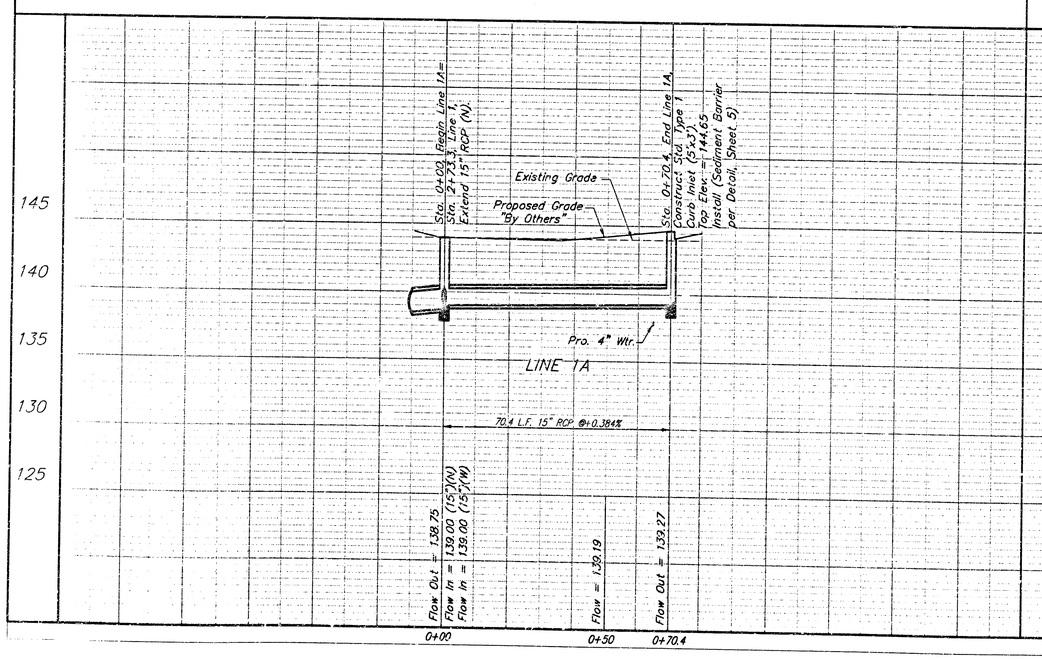
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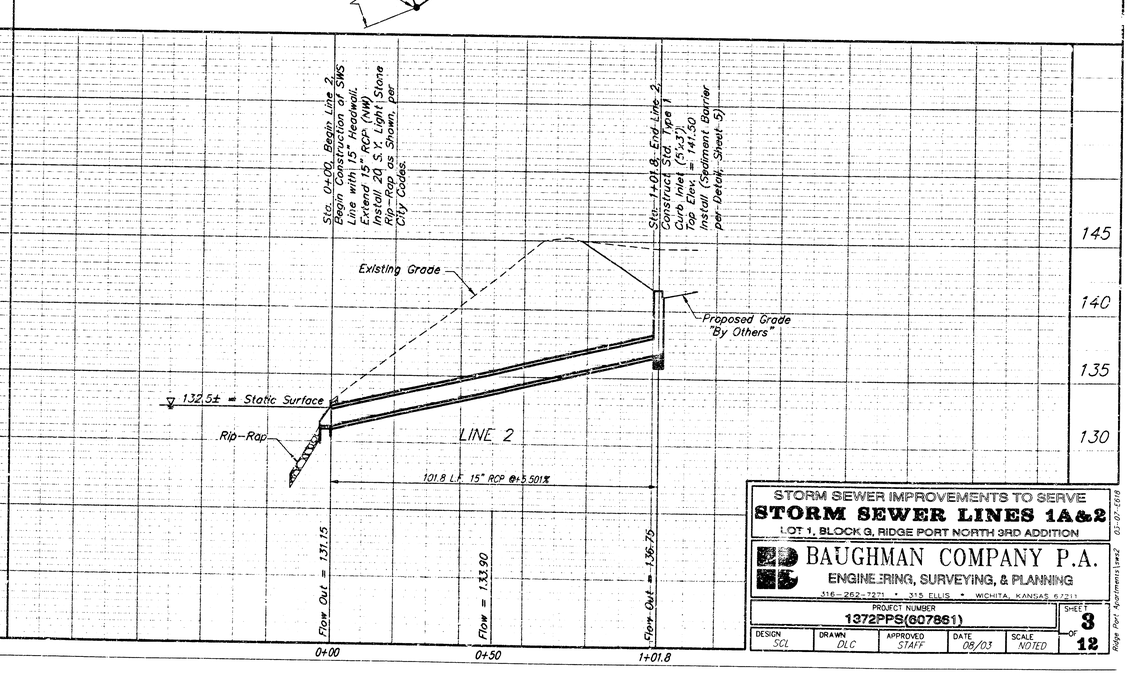
#2 – "□" Chiseled on Top of Curb at East end of curb radius located near NW corner of Lot 1, Block G, Ridge Port North 3rd Addition.

Elevation = 144.87 (City Datum)









STORM SEWER IMPROVEMENTS TO SERVE

STORM SEWER LINES 1A&2

LOT 1, BLOCK G, RIDGE PORT NORTH 3RD ADDITION

BAUGHMAN COMPANY P.A.

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316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER	SHEET	OF
1372PPS(607861)	3	12

DESIGN	DRAWN	APPROVED	DATE	SCALE
SCL	DLC	STAFF	08/03	NOTED

Ridge Port Apartments Level 03-07-2018

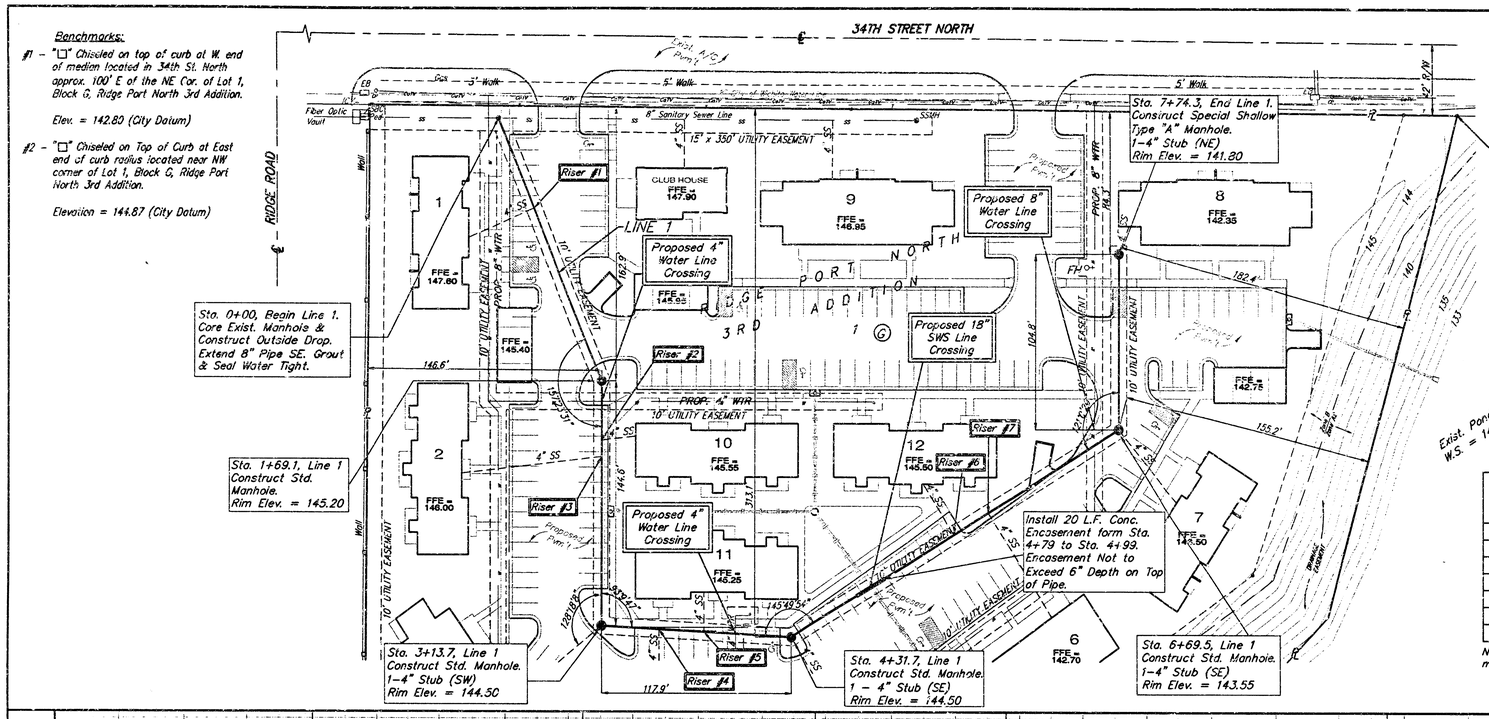
Benchmarks:

#1 – "□" Chiseled on top of curb at W. end of median located in 34th St. North approx. 100' E of the NE Cor. of Lot 1, Block G, Ridge Port North 3rd Addition.

Elev. = 142.89 (City Datum)

#2 – "□" Chiseled on Top of Curb at East end of curb radius located near NW corner of Lot 1, Block G, Ridge Port North 3rd Addition.

Elevation = 144.87 (City Datum)

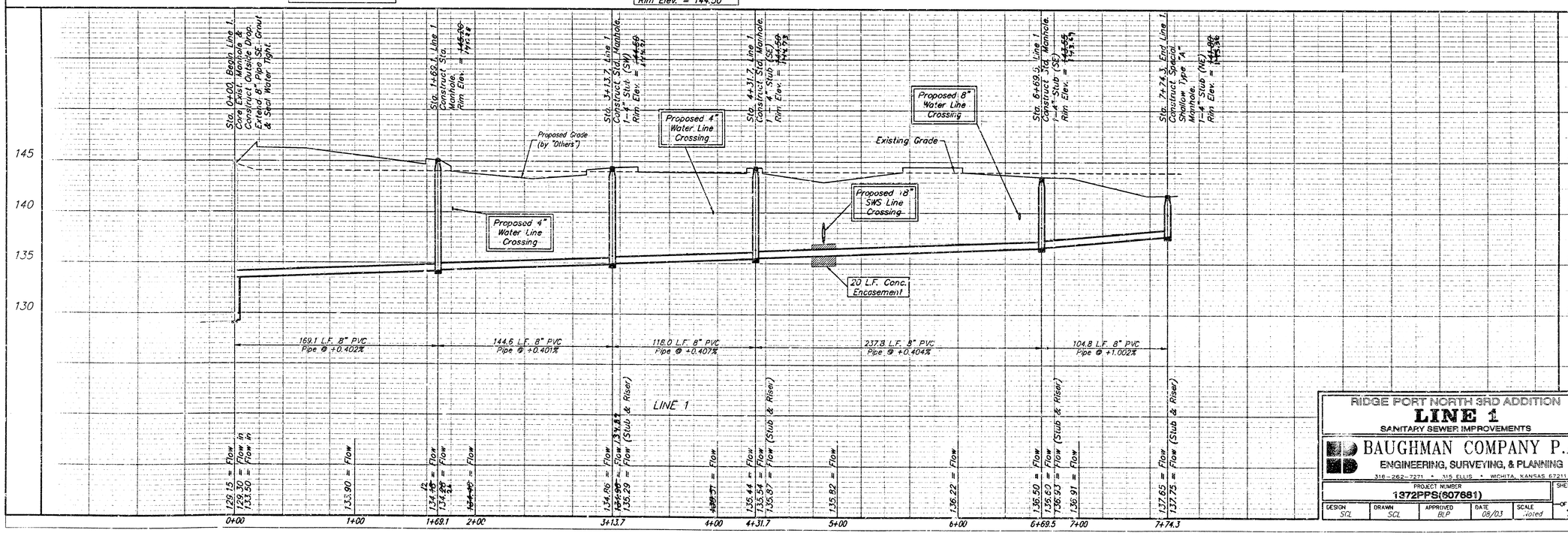


Scale: 1" = 40' Horizontal
1" = 5' Vertical
• = Iron

SEWER SERVICE TABLE

NUMBER	TYPE	STATION \ DIRECTION	FOR INFORMATION ONLY: APPROXIMATE LENGTH 4" PIPE VERTICAL	HORIZONTAL
1	8" X 4" Tee Saddle	0+58/Rt.	10'	15'
2	8" X 4" Tee Saddle	2+04/Lt.	6'	15'
3	8" X 4" Tee Saddle	2+14/Rt.	6'	15'
4	8" X 4" Tee Saddle	3+50/Rt.	6'	15'
5	8" X 4" Tee Saddle	3+77/Lt.	6'	15'
6	8" X 4" Tee Saddle	5+49/Rt.	5'	15'
7	8" X 4" Tee Saddle	5+74/Lt.	5'	15'

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



RIDGE PORT NORTH 3RD ADDITION
LINE 1
SANITARY SEWER IMPROVEMENTS

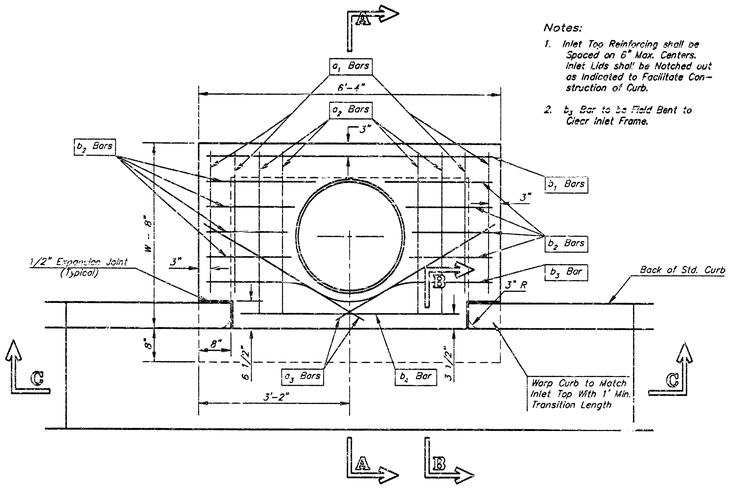
BAUGHMAN COMPANY P.A.
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316–262–7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER 1372PPS(607681)

DESIGN	DRAWN	APPROVED	DATE	SCALE
SCL	SCL	BLP	08/03	Noted

SHEET 4 OF 12

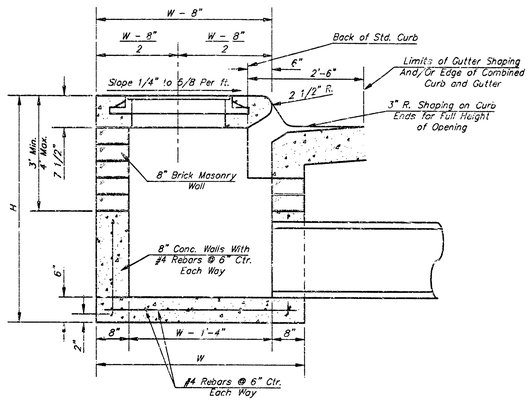
Ridge Port /JST



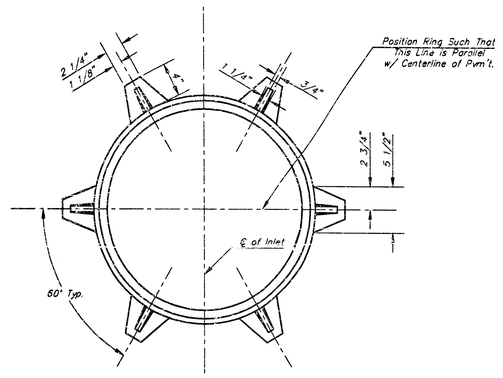
PLAN

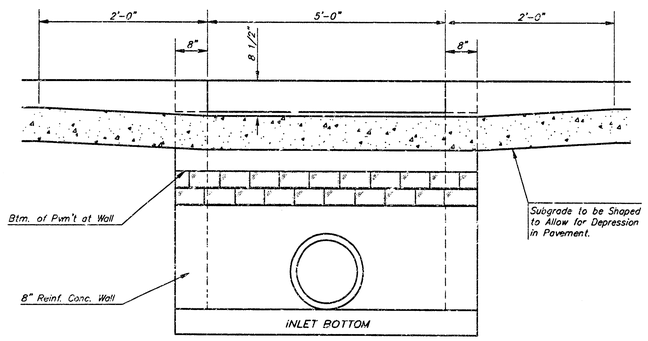
Notes:

1. Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids shal be Notched out as Indicated to Facilitate Construction of Curb.
2. b_3 Bar to be Field Bent to Clear Inlet Frame.

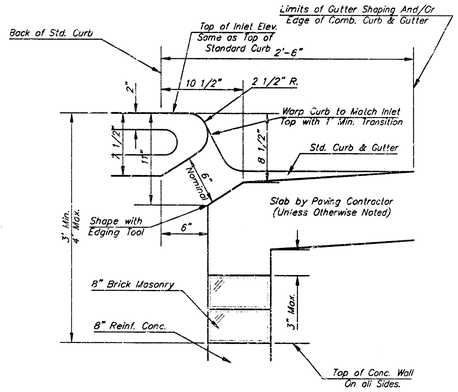


SECTION A–A

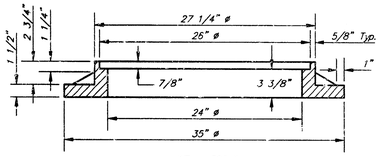




SECTION C–C



SECTION B–B



WT. = 325 lbs.

MANHOLE RING AND COVER

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



BENDING DIAGRAM

STEEL SCHEDULE

BAR		a_1	a_2	a_3	b_1 W=4'-4"	b_1 W=5'-4"	b_1 W=6'-4"	b_1 W=7'-4"	b_1 W=8'-4"	b_2	b_3	b_4	Wt. Lbs.
NUMBER		4	4	2	1	3	5	7	9	6	1	1	
SIZE		#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
LENGTH	W=4'-4"	5'-7"	6'-7"	4'-0"	6'-1"	–	–	–	–	1'-9"	6'-2"	4'-8"	60±
	W=5'-4"	7'-7"	8'-7"	5'-0"	–	6'-1"	–	–	–	1'-9"	6'-2"	4'-8"	81±
	W=6'-4"	9'-7"	10'-7"	6'-0"	–	–	6'-1"	–	–	1'-9"	6'-2"	4'-8"	101±
	W=7'-4"	11'-7"	12'-7"	7'-0'	–	–	–	6'-1"	–	1'-9"	6'-2"	4'-8"	121±
	W=8'-4"	13'-7"	14'-7"	8'-0"	–	–	–	–	6'-1"	1'-9"	6'-2"	4'-8"	141±

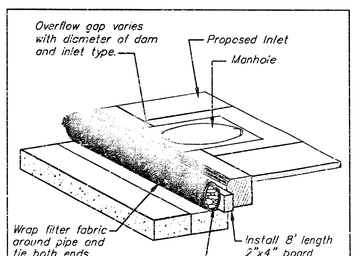
Note: a_3 Bars to be Placed Approx. 2" Below Top of Inlet Cover.

STANDARD CURB INLET PRECAST TOPS

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" 5'-4" 7 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" 6'-4" 7 1/2"	24" & 30"	0.51±
6'-4"	5'-8" 6'-4" 7 1/2"	36" & 42"	0.64±
7'-4"	6'-8" 6'-4" 7 1/2"	48" & 54"	0.77±
8'-4"	7'-8" 6'-4" 7 1/2"	60" & 66"	0.90±

GENERAL NOTES

1. 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.
2. Contractor shall have the option of constructing 8" brick masonry walls between the concrete inlet base and top on this inlet when W=5'-4" and H=7'-0" or less.
3. 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.
4. The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.



INLET PROTECTION

Perforated Pipe w/ Gravel

Revised – Dec. 21, 1984

CITY OF WICHITA, KANSAS

TYPE 1 CURB INLET

INLET OPENING = 6"X5'-0"

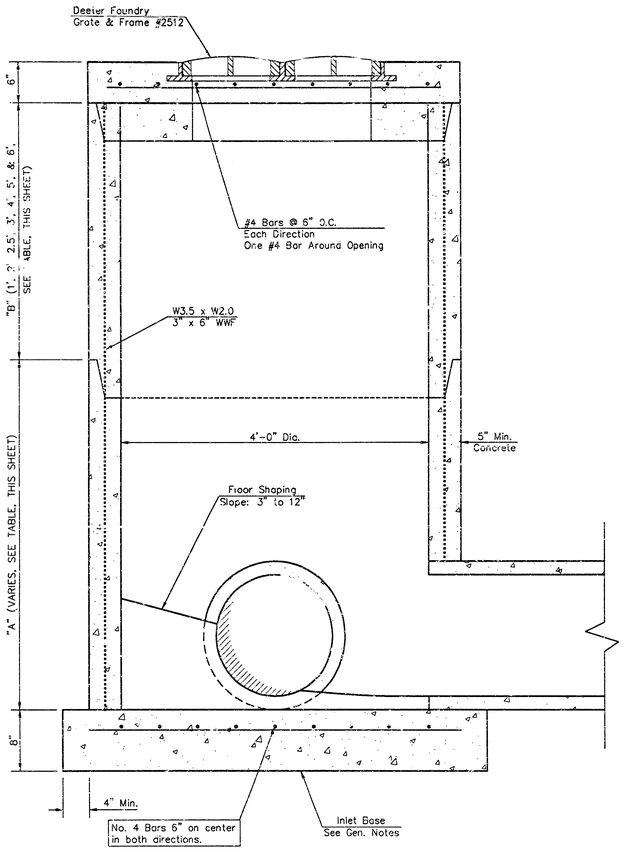
BAUGHMAN COMPANY P.A.
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315-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER 1372PPS(607881)

SHEET 5 OF 12

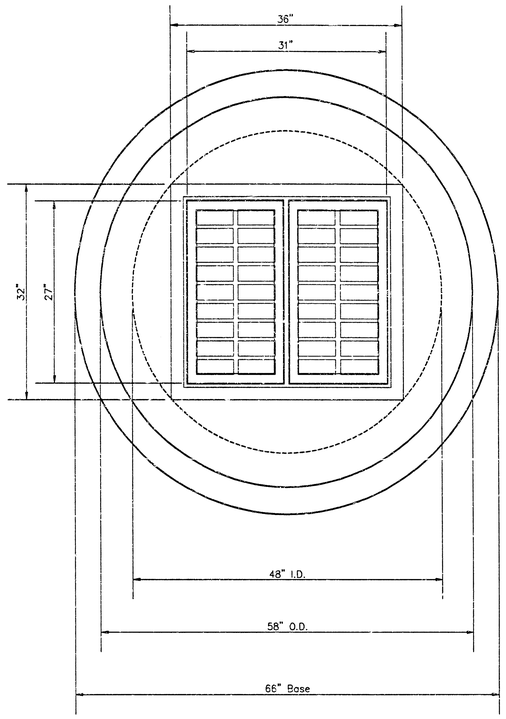
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C.U.W.	STAFF		09/03	NONE

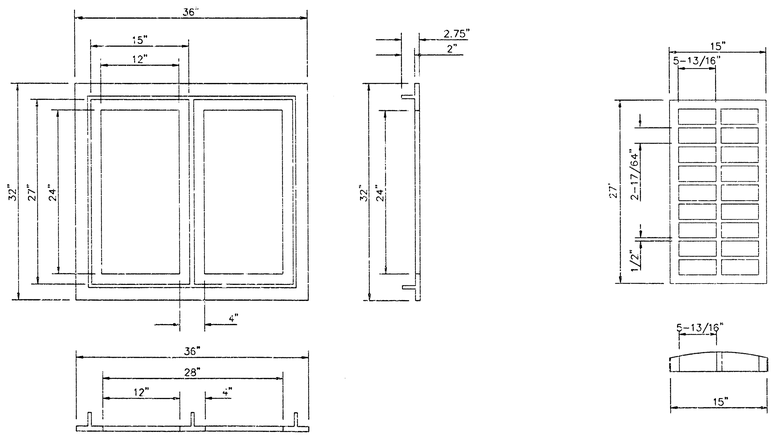
DETAILS/STYP1-S 02-12-E484



YARD INLET

LINE #	STA.	TOP OF INLET	INLET FLOW	"A"	"B"
1	2+73.3	144.00	138.75	2.75'	2.00'





DEETER #2512 CATCH BASIN INLET GRATE & FRAME

GENERAL NOTES

1. 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.
2. 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.
3. 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 neat 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.
4. 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.
5. 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.
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
7. Joints between inlet sections to be sealed with two wraps of extruded butyl rubber joint mastic meeting City of Wichita Type "P" Manhole Specifications.
8. Special yard inlet shall be paid for at the unit price bid per each. All standard yard inlet diameters will be 4'.

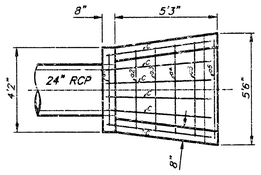
SPECIAL YARD INLET
WICHITA, KANSAS

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

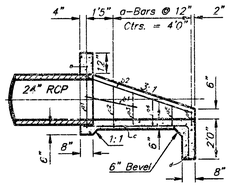
PROJECT NUMBER	SHEET
1372PPS(607861)	6 OF 12

DESIGN	DRAWN	APPROVED	DATE	SCALE
STAFF	STAFF		08/03	NONE

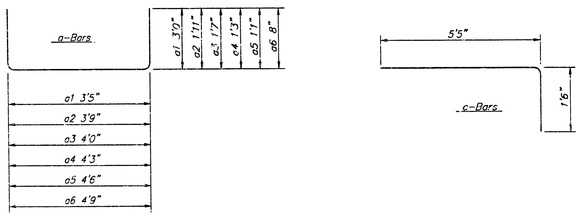
DETAILS \ Yardinlet



PLAN



SECTION



REBAR SCHEDULE

Bar	Shape	No.	Length	Weight
a1		1	9'5"	6.29
a2		1	7'7"	5.07
a3		1	7'2"	4.79
a4		1	6'9"	4.51
a5		1	6'4"	4.23
a6		1	6'1"	4.06
b1	——	2	2'9"	3.67
b2	——	2	5'10"	7.79
c		6	6'11"	27.72
d	——	1	3'0"	3.37
e	——	1	3'10"	2.56
Total Rebar				74.03 Lbs.
Concrete				1.40 C.Y.

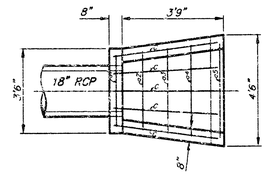
A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall

* Field Bend or Cut Reinforcing as Required for Clearance.

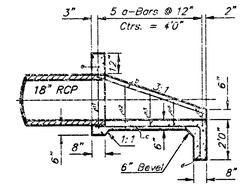
All Concrete Reinforcement to be #4 Rebar

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

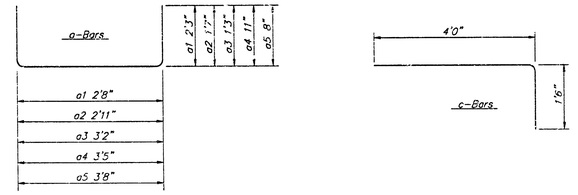
HEADWALL FOR 24" RCP



PLAN



SECTION



REBAR SCHEDULE

Bar	Shape	No.	Length	Weight
a1		1	7'2"	4.79
a2		1	6'1"	4.06
a3		1	5'8"	3.79
a4		1	5'3"	3.51
a5		1	5'0"	3.34
b	——	2	4'0"	5.34
c		5	5'6"	18.37
d	——	1	4'0"	2.67
e	——	1	3'2"	2.12
Total Rebar				47.99 Lbs.
Concrete				0.91 C.Y.

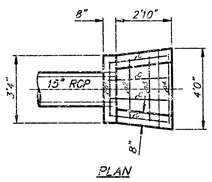
A Deduction in Concrete Quantities Has Been Made for Pipe Openings Through the Headwall

* Field Bend or Cut Reinforcing as Required for Clearance.

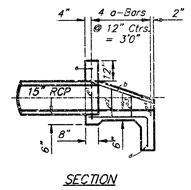
All Concrete Reinforcement to be #4 Rebar

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

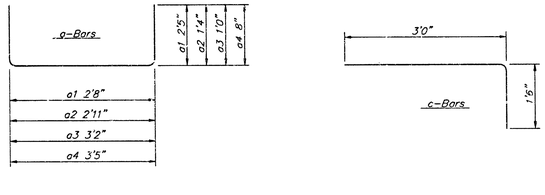
HEADWALL FOR 18" RCP



PLAN



SECTION



REBAR SCHEDULE

Bar	Shape	No.	Length	Weight
a1		1	7'6"	5.01
a2		1	5'7"	3.73
a3		1	5'2"	3.45
a4		1	4'9"	3.17
b	——	2	4'0"	5.34
c		4	5'6"	14.70
d	——	1	3'5"	2.28
e	——	1	2'8"	1.78
Total Rebar				39.46 Lbs.
Concrete				0.67 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

HEADWALL FOR 15" RCP

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.

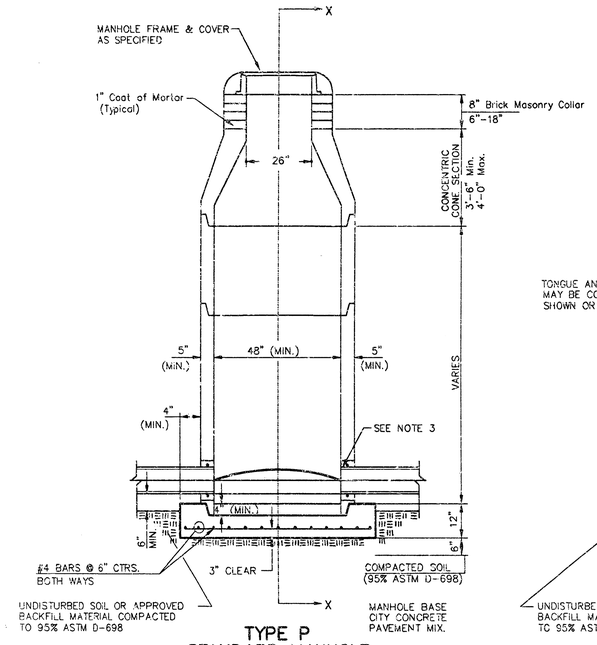
HEADWALL DETAIL

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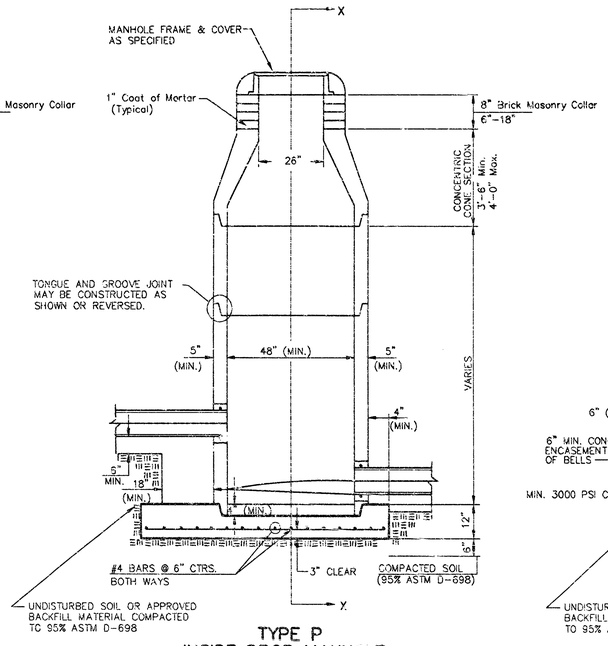
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1372PPS(607861)					7 OF 12
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RLP/DMV	JAK		08/03	NONE	

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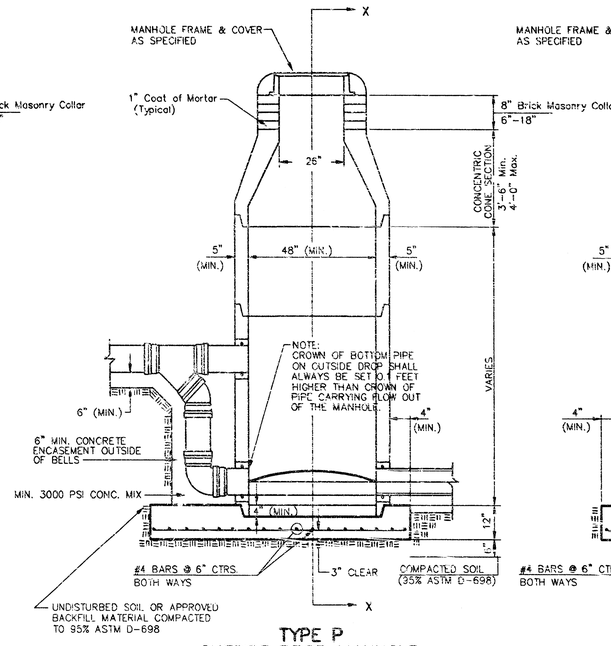
SEWER APPURTENANCES DETAILS



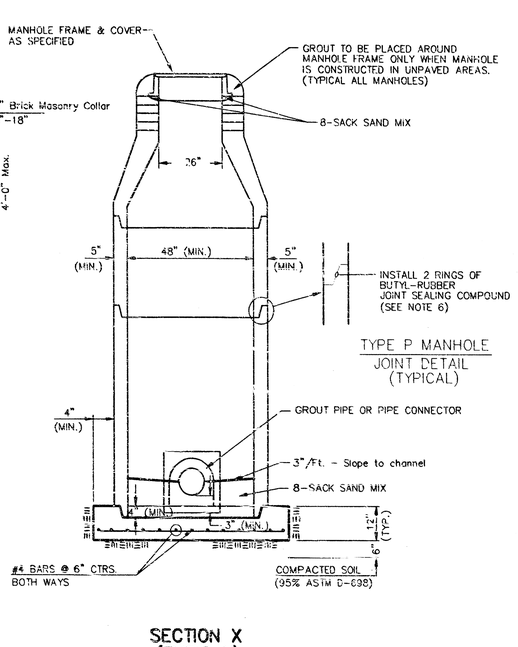
TYPE P
STANDARD MANHOLE



TYPE P
INSIDE DROP MANHOLE



TYPE P
OUTSIDE DROP MANHOLE



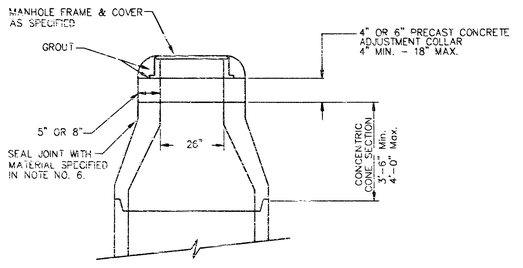
SECTION X
(TYPICAL)

TYPE P MANHOLE
JOINT DETAIL
(TYPICAL)

GENERAL NOTES

PRECAST MANHOLE NOTES

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS INEMEC SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINOUS COATING.
6. JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
8. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
9. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4'. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5'. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
11. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
12. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NON-SHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
13. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE 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 MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
14. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. 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 MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
15. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
16. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 2' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
17. STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
18. A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR. THE USE OF PRE-CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT IS ALSO ALLOWED.



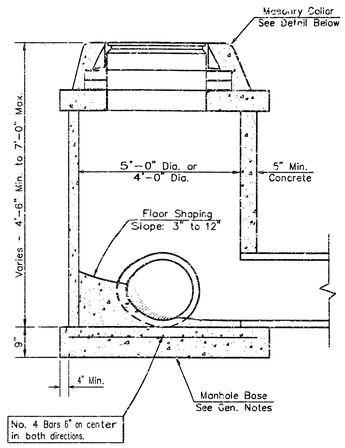
ALTERNATE CONSTRUCTION
IN UNPAVED AREAS

STD. MANHOLE DETAILS
SEWER APPURTENANCES

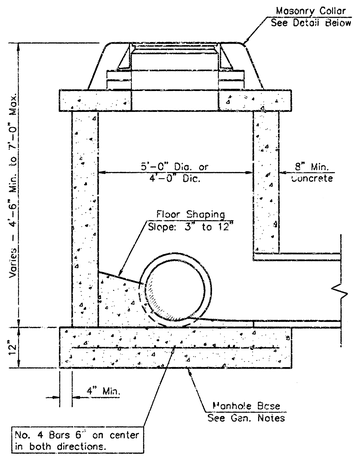
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PROJECT NUMBER					SHEET
1372PPS(607861)					8 OF 12
DESIGN	DRAWN	APPROVED	DATE	SCALE	
STAFF	STAFF		08/03	NONE	

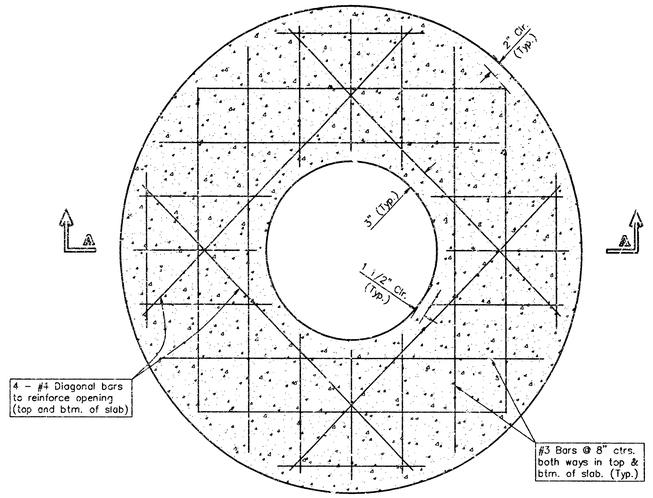
Std Manhole



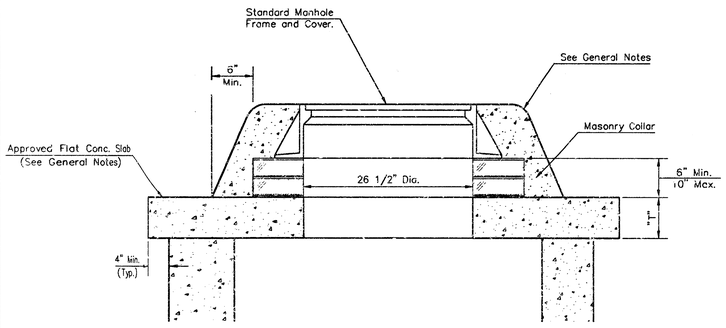
SHALLOW TYPE "P" MANHOLE



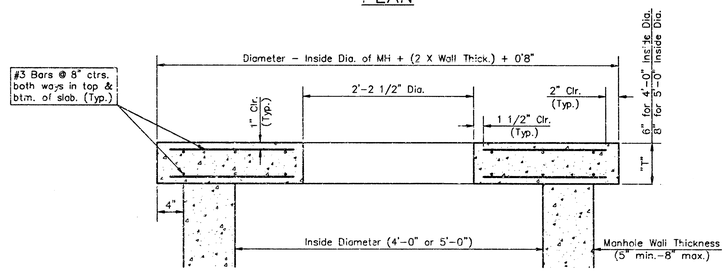
SHALLOW TYPE "C" MANHOLE



PLAN

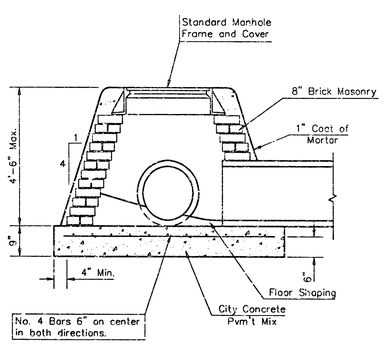


MASONRY COLLAR DETAIL

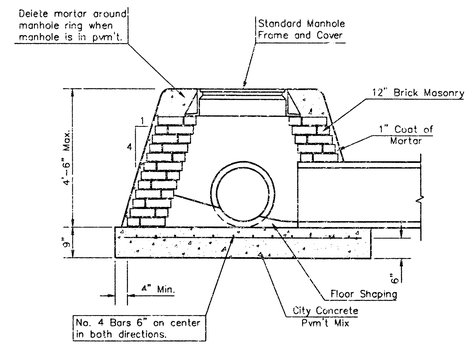


SECTION A-A

FLAT CONCRETE SLAB DETAILS



SPECIAL SHALLOW TYPE "A" MANHOLE



SPECIAL SHALLOW TYPE "B" MANHOLE

GENERAL NOTES

1. Mortar used in masonry construction shall contain 6 sacks of cement per cubic yard. Concrete used in manhole 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 admixture. Mortar shall be placed around the manhole ring as shown on the drawings when manholes are constructed in unpaved areas. Manholes constructed where pipe sizes are smaller than 24" shall have an inside diameter of 4'. Manholes constructed where pipe sizes are 24" or larger shall have an inside diameter of 5'. Completed mannole shall be without leaks and water tight.
2. Reinforcing steel shall be installed in the manhole bases and shall consist of no. 4 bars placed on 6" centers in both directions. The manhole base reinforcement shall be placed 6" above the bottom of the manhole base. All costs for furnishing and installing reinforcing steel shall be included in the unit price bid for the manhole.
3. The floors of all manholes shall be shaped with flow channels such that the manholes will be self cleaning and free of areas where solids could be deposited as sewage flows through the manhole from all inlet pipes to the outlet pipe. Flow channels shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Manhole 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 manholes shall have the top half removed to neat lines for the full inside diameter of the manhole. Manhole floors shall then be shaped around the bottom half of the pipe which forms the flow channel.
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. 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 manhole excavation or to clay pipe joints adjacent to manhole shall be included in the unit price bid for the manhole.
5. Manhole cover castings and manhole frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawings.
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
7. Standard shallow manholes type "P" and "C" shall be paid for at the unit price bid per each for the type and diameter indicated. All standard shallow manhole diameters will be 4' unless indicated otherwise.
8. All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.

CITY OF WICHITA, KANSAS

STD. SHALLOW MANHOLES

TYPE 'P' AND TYPE 'C'

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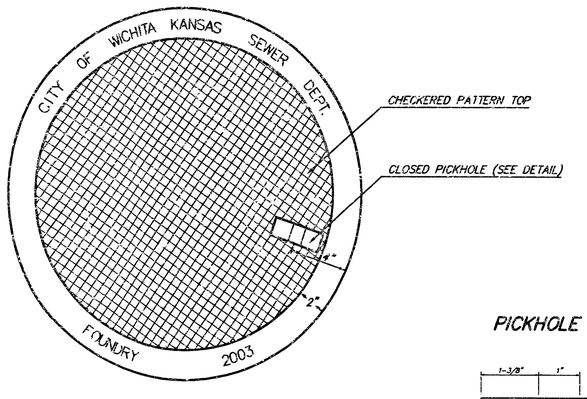
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DESIGN STAFF	DRAWN STAFF	APPROVED STAFF	DATE 08/03	SCALE NONE	

DETAIL STANDARDS

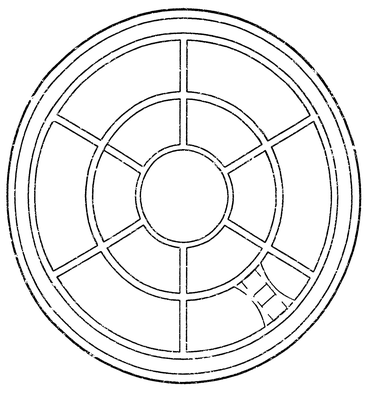
MANHOLE FRAME AND COVER DETAIL

ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

MANHOLE COVER
Weight = 180 Lbs.

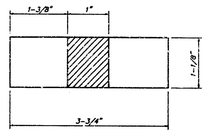


TOP VIEW

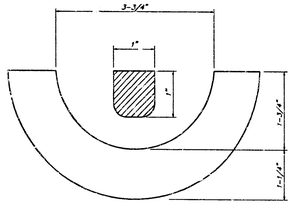


BOTTOM VIEW

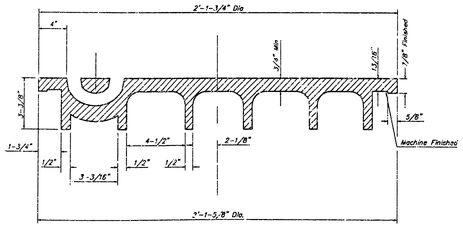
PICKHOLE DETAIL



TOP VIEW

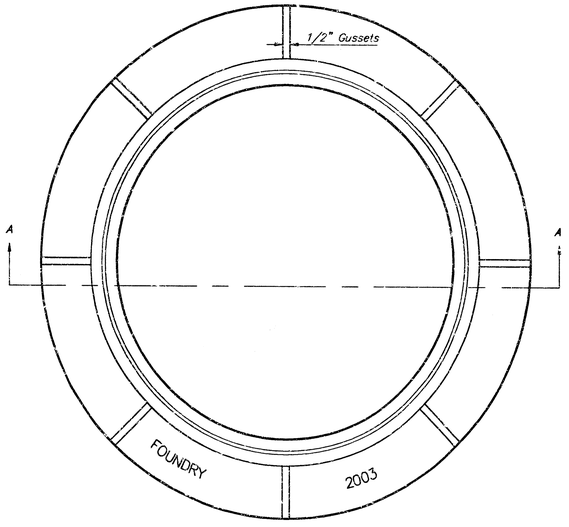


SECTION VIEW

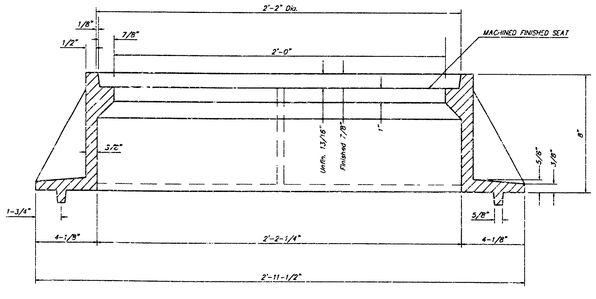


SECTION VIEW

MANHOLE FRAME
Weight = 145 Lbs.



TOP VIEW



SECTION A-A

GENERAL NOTES

MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.

MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TOUGH AND TENACIOUS COATING WHICH IS NOT BRITTLE OR TACKY.

MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.

THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH AS THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.

THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1 INCH IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

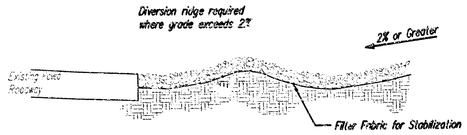
MANHOLE FRAME AND COVER DETAIL
ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

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

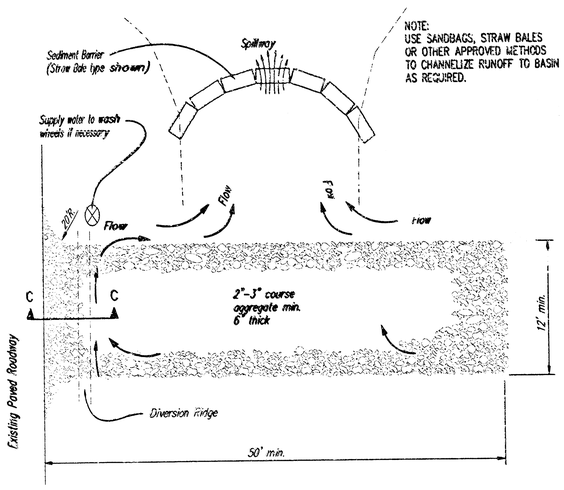
PROJECT NUMBER	SHEET
1372PPS(807861)	10 of 12

DESIGN	DRAWN	APPROVED	DATE	SCALE
STAFF	STAFF		08/03	NONE

L:\detail\Manhole



SECTION C-C

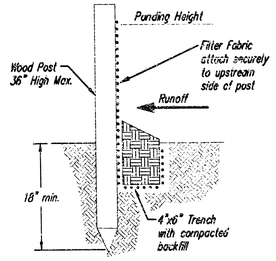


NOTE:
USE SANDBAGS, STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED.

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 BASIN, 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.



SILT FENCE BARRIERS

SILT FENCE BARRIERS

Material Specification:

Silt fence fabric should conform to the AASHTO M288 95 silt fence specification..
The posts used to support the silt fence fabric should be a hardwood material with the following minimum dimensions: 2" square (nominal) by 4' long.
Silt fence fabric should be attached to the wooden posts with staples, wire, zip ties, or nails.

Placement:

A slope barrier should be used at the toe of a slope when a ditch does not exist. The slope barrier should be placed on nearly level ground 5' to 10' away from the toe of a slope. The barrier is placed away from the toe of the slope to provide adequate storage for settling out sediment.
When practicable, silt fence slope barriers should be placed along contours to avoid a concentration of flow.
Silt fence slope barriers can also be placed along right-of-way fence lines to keep sediment from crossing onto adjacent property. When placed in this manner, the slope barrier will not likely follow contours.

Proper installation method:

Excavate a trench the length of the planned slope barrier that is 6" deep by 4" wide. Make sure that the trench is excavated along a single contour. When practicable, slope barriers should be placed along contours to avoid a concentration of flow. Place the soil on the upslope side of the trench for later use.
Roll out a continuous length of silt fence fabric on the downslope side of the trench.
Place the edge of the fabric in the trench starting at the top upslope edge. Line all three sides of the trench with the fabric. Backfill over the fabric in the trench with the excavated soil and compact. After filling the trench, approximately 24" to 36" of silt-fence fabric should remain exposed.
Lay the exposed silt fence upslope of the trench to clear an area for driving in the posts.
Just downslope of the trench, drive posts into the ground to a depth of at least 18".
Place posts no more than 4' apart.
Attach the silt fence to the anchored post with staples, wire, zip ties, or nails.

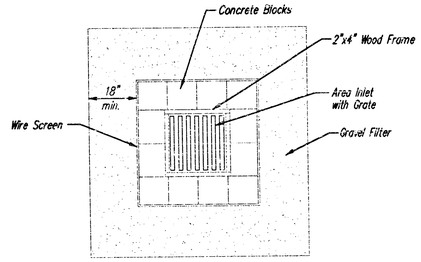
List of common placement/installation mistakes to avoid:

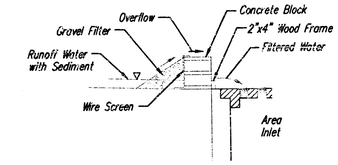
When practicable, do not place silt fence slope barriers across contours. Slope barriers should be placed along contours to avoid a concentration of flow. When the flow concentrates, it overtops the barrier and the silt fence slope barrier quickly deteriorates.
Do not place silt-fence posts on the upslope side of the silt fence fabric. In this configuration, the force of the water is not restricted by the posts, but only by the staples (wire, zip ties, nails, etc.). The silt fence will rip and fail.
Do not place silt fence slope barriers in areas with shallow soils underlain by rock. If the barrier is not sufficiently anchored, it will wash out.
Silt fence slope barriers must be dug into the ground-silt fence at ground level does not work because water will flow underneath.

Inspection and Maintenance:

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

Are there any points along the slope barrier where water is concentrating?
Does water flow under the slope barrier?
Do the silt fences sag excessively?
Has the silt fence torn or become detached from the posts?
Does sediment need to be removed from behind the slope barrier?





CONCRETE BLOCK FILTER FOR AREA DRAIN
(INLET PROTECTION)

Gravel barriers provide little filtering of large inflow waters. However, when installed correctly and maintained, they can effectively treat low runoff flows.

Placement of gravel filters around area drains must be completed in a manner that will not cause local flooding.

Gravel filters can be used if the immediate and adjacent area to the area drain consists of soil or pavement.

Only gravel filters are to be installed on top of the pavement.

Instructions for Installing:

STEP 1: Place concrete blocks around the grate. The blocks can be stacked one or two high and should be supported by a 2"x4" board.
STEP 2: Wrap 1/2" mesh wire screen around the concrete blocks.
STEP 3: Place 1" to 1-1/2" diameter rock around the blocks and wire screen. Be sure the rock extends down from the top of the concrete block.
STEP 4: To prevent damage to vehicles, signs warning drivers about the structures may be necessary.

An alternative method is use of gravel bags that are supported to prevent collapsing.

Use of rock having diameters smaller than 1" may result in clogging of pores and reduce the amount of water flowing into an inlet.

Maintenance:

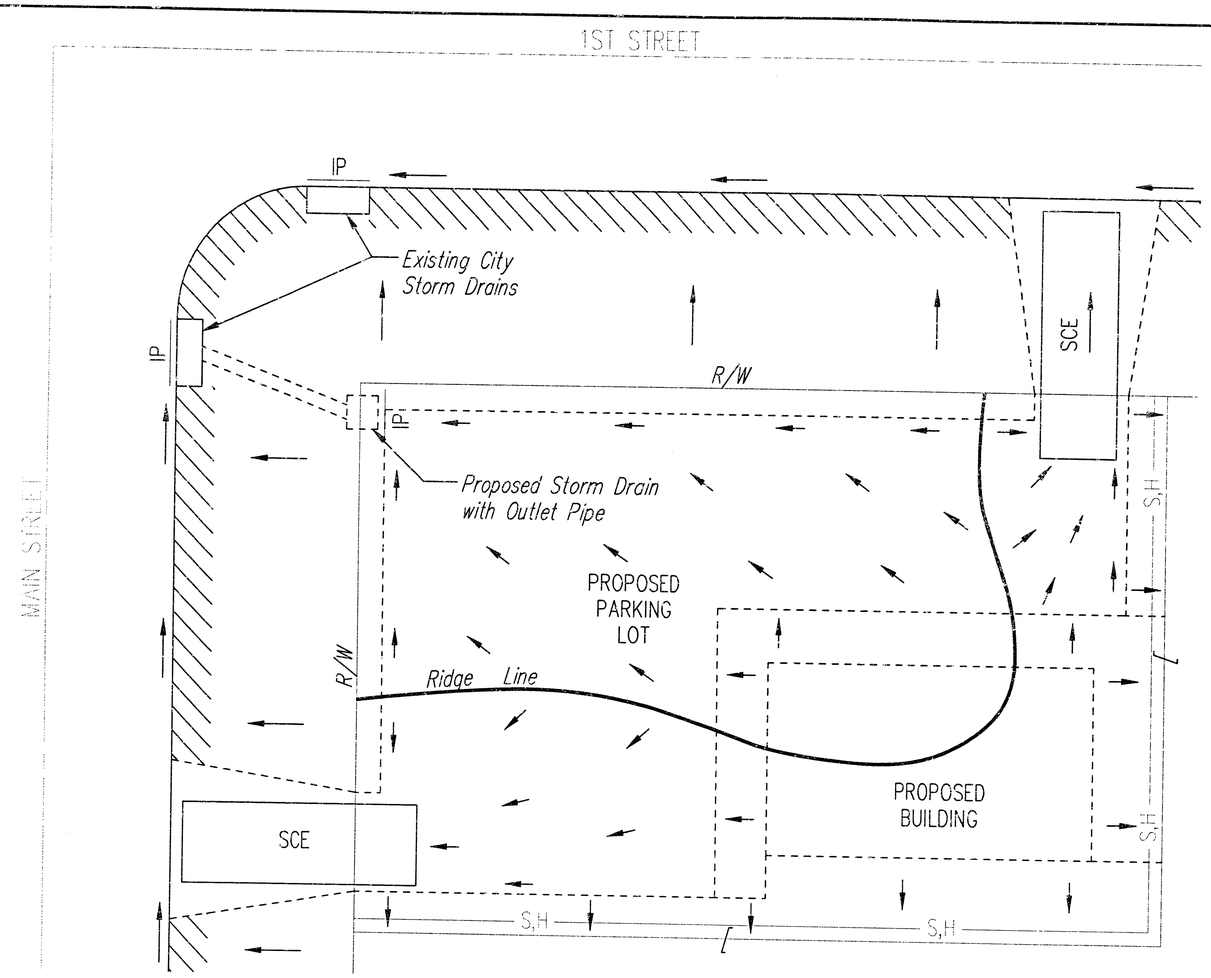
All gravel filters installed around area drains should be inspected and repaired after each runoff event. Sediment should be removed when material is within 3" of the top of any block. Periodically, the gravel should be raked to increase infiltration and filtering of runoff waters. Accumulated sediment is to be removed immediately from roads and streets after every runoff event.

CITY OF WICHITA

SOIL EROSION BMP DETAILS

CHRISTOPHER M. CARRIER P.E.
STORM WATER ENGINEER

PROJECT NUMBER	OCA NO.
1372PPS(607861)	-
DATE	SHEET 11 OF 12
AUG. 2003	



LEGEND

⟶	Flow Direction
IP	Inlet Protection – to be provided at all inlets subject to silt laden runoff.
— S,H —	Silt Fence or Hay Bale Barrier – to be installed along property lines where runoff from construction site can run onto other properties.
SCE	Stabilized Construction Entrance – to be used at all locations where vehicles or equipment enter or exit property.
▨	Back of Curb Protection – to be installed whenever curb is backfilled to less than 3 inches from top and disturbed earth exists adjacent thereto. (See City Standard Details.)

General Notes

1. This standard detail sheet is a part of your building permit. The BMP's shown on this sheet are considered minimum standards. Whenever sediment enters the streets, storm sewers, ditches, or ponds, contractor will install additional BMP's, as needed, to correct the problem.

2. Follow these general principals on all commercial building sides.

3. The soil erosion BMP's shown hereon must be in place at all times during construction until such time as the site is re-established with paving or grass.

4. Failure to install, protect, and maintain BMP's are violations of Section 16.32 of the City Code and will subject the contractor to the penalties provided therein. Included with your permit is an orange "notice" sign that must be posted on-site in a conspicious place at all times during construction. This sign is provided to asisst you in the maintenance of BMP'S.

5. Back of Curb Protection: Can include hay bale, silt fence, or Curlex barrier, as shown on City BMP standard details. This BMP must remain in place until the area between the curb and right-of-way line has been permanently stabilized.

6. The General Contractor is responsible for the installation and maintenance of all BMP's.

7. Should the site abut a lake, BMP's will be installed to prevent sediment from entering the lake.

8. Any mud inadvertently tracked onto any street will be cleaned up by the general contractor at the end of each day's work.

CITY OF WICHITA

SOIL EROSION BMP DETAILS

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

PROJECT NUMBER	OCA NO.
1372PPS(607681)	–
DATE: AUG. 2003	SHEET 12 OF 12

RIDGE PORT NORTH 3RD ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

State of Kansas)
Sedgwick County) SS

We, Baughman Company, P.A. Surveyors in aforesaid County and State do hereby certify that we have surveyed and platted "RIDGE PORT NORTH 3RD ADDITION", Wichita, Sedgwick County, Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed, described follows: Part of the NW1/4 of Sec. 34, Twp. 26-S, R-1-W of the 6th P.M., Sedgwick County, Kansas described as beginning at the SE corner of Lot 6, Ridge Port North Addition, Wichita, Sedgwick County, Kansas; thence N00°26'22"E along the east line of said Lot 6, 520.05 feet to the NE corner of said Lot 6, said NE corner being on the south line of 34th Street North as dedicated in said Ridge Port North Addition; thence S89°33'38"E along the south line of said 34th Street North, 300.00 feet to the SE corner of said 34th Street North; thence N00°26'22"E along the east line of said 34th Street North, 84.00 feet to the NE corner of said 34th Street North, said NE corner also being the SW corner of Reserve "D" in said Ridge Port North Addition; thence S89°33'38"E along the south line of said Reserve "D", 626.34 feet to a corner of said Reserve "D"; thence N45°26'22"E along the southeast line of said Reserve "D", 873.42 feet to a corner of said Reserve "D"; thence N00°26'22"E along the east line of said Reserve "D", 516.79 feet to a point 915.126 feet south of the north line of said NW1/4 as measured parallel with the west line of said NW1/4; thence N90°00'00"E parallel with the north line of said NW1/4, 378.00 feet; thence N00°26'22"E parallel with the west line of said NW1/4, 915.126 feet to a point on the north line of said NW1/4; thence N90°00'00"E along the north line of said NW1/4, 350.27 feet to the NE corner of said NW1/4; thence S00°31'10"W along the east line of said NW1/4, 2632.77 feet to the SE corner of said NW1/4; thence S89°46'23"W along the south line of said NW1/4, 2268.67 feet to the point of beginning, TOGETHER with that part of the NE1/4 of said Sec. 34 described as follows: Beginning at the NW corner of the S1/2 of said NE1/4; thence south along the west line of said NE1/4, 944.38 feet; thence east parallel with the north line of the S1/2 of said NE1/4, 1467.73 feet, more or less, to a point 1145.00 feet west of the east line of said NE1/4; thence north parallel with the east line of said NE1/4, 416.38 feet; thence west parallel with the north line of the S1/2 of said NE1/4, 75.00 feet; thence north parallel with the east line of said NE1/4, 303.60 feet; thence west parallel with the north line of the S1/2 of said NE1/4 to a point on the west line of the E1/2 of said NE1/4; thence north along the west line of the E1/2 of said NE1/4, 224.40 feet to the NW corner of the SE1/4 of said NE1/4; thence west along the north line of the S1/2 of said NE1/4 to the point of beginning, TOGETHER with that part of said NE1/4 described as follows: Beginning at a point on the west line of the S1/2 of said NE1/4, said point being 944.38 feet south of the NW corner of said S1/2; thence south along the west line of said S1/2, 148.28 feet; thence east parallel with the south line of said S1/2, 1469.10 feet, more or less, to a point 1145.00 feet west of the east line of said S1/2; thence north parallel with the east line, 149.97 feet, more or less, to a point 944.38 feet south of the north line of said S1/2; thence west parallel with said north line, 1457.73 feet, more or less, to the point of beginning, TOGETHER with that part of said NE1/4 described as follows: Beginning at a point on the west line of the S1/2 of said NE1/4, said point being 1092.68 feet south of the NW corner of said S1/2; thence south along the west line of said S1/2, 29.65 feet; thence east parallel with the south line of said S1/2, 1469.37 feet, more or less, to a point 1145.00 feet west of the east line of said S1/2; thence north parallel with said east line, 29.65 feet, more or less, to a point 1094.35 feet south of the north line of said S1/2; thence west parallel with said north line, 1459.10 feet, more or less, to the point of beginning, all being subject to road rights-of-way of record.

Existing public easements and dedications being vacated by virtue of K.S.A. 12-512(b).

All being situated in the NW1/4 and NE1/4 of Sec. 34, Twp. 26-S, R-1-W of the 6th P.M., Sedgwick County, Kansas.

Baughman Company, P.A.

Know all men by these presents that we, the undersigned, have caused the land in the surveyors certificate to be platted into Lots, Blocks, Streets, and Reserves to be known as "RIDGE PORT NORTH 3RD ADDITION", Wichita, Sedgwick County, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. The drainage and utility easements are hereby granted as indicated for drainage purposes and for the construction and maintenance of all public utilities. The drainage easements are hereby granted as indicated for drainage purposes. The temporary cul-de-sac easement on Lakeway shall expire at such time as Lakeway is extended further north or terminated as a permanent cul-de-sac. The wall easements are hereby granted as indicated for the construction and maintenance of a private wall and utility main lines and service lines shall be allowed to cross these easements. The streets are hereby dedicated to and for the use of the public. Reserves "A", "B", and "C" are hereby reserved for open space, lakes, drainage purposes, sidewalks, gazebos, hike and bike trails, landscaping, and utilities as confined to easements. Reserves "D", "E", "F", and "G" are hereby reserved for entry monuments, landscaping, berms, streets, and utilities. Reserve "H" is hereby reserved for open space, landscaping, drainage purposes and berms. Reserves "A", "B", "C", "D", "E", "F", "G", and "H" shall be owned and maintained by the homeowners association for the addition. All abutters rights of access to or from 37th Street North over and across the north line of Lots 1 and 2, Block A, are hereby granted to the City of Wichita, Kansas. All abutters rights of access to or from Eisenhower over and across the east line of Lots 14, 25, 26, 27, and 28, Block D, are hereby granted to the City of Wichita, Kansas. The Minimum Building Pad Elevations for the lowest opening to the structures shall be as indicated on the face of the plat.

Ridge Port Group, LLC,
a Kansas Limited Liability Company

_____, Manager
Jay W. Russell

_____, Manager
Kevin M. Mullen, President
Ritchie Associates, Inc.

State of Kansas)
Sedgwick County) SS

This foregoing instrument acknowledged before me, this 31ST day of AUGUST, 2000, by Jay W. Russell, Manager of Ridge Port Group, LLC, a Kansas Limited Liability Company, on behalf of the company.

JUDITH M. TERHUNE
Notary Public - State of Kansas
My Appt. Expires 11-7-2001

Judith M. Terhune, Notary Public
JUDITH M. TERHUNE

My App't. Exp. 11-7-2001

State of Kansas)
Sedgwick County) SS

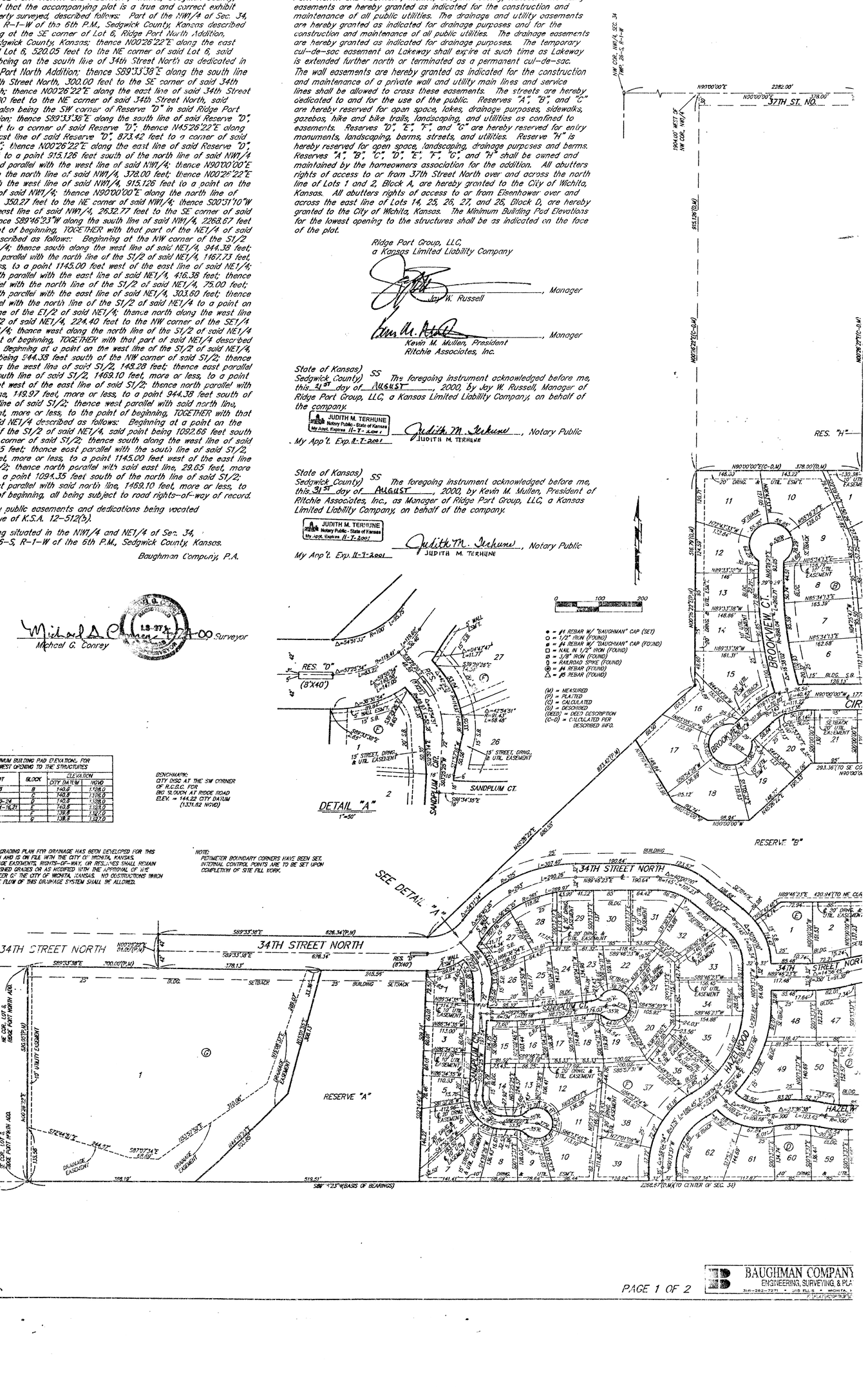
The foregoing instrument acknowledged before me, this 31ST day of AUGUST, 2000, by Kevin M. Mullen, President of Ritchie Associates, Inc., as Manager of Ridge Port Group, LLC, a Kansas Limited Liability Company, on behalf of the company.

JUDITH M. TERHUNE
Notary Public - State of Kansas
My Appt. Expires 11-7-2001

Judith M. Terhune, Notary Public
JUDITH M. TERHUNE

My App't. Exp. 11-7-2001

Michael C. Conrey, L.S. 1373, 7-7-00, Surveyor
Michael C. Conrey


NW COR. NW1/4, SEC. 34 TWP. 26-S, R-1-W
N90°00'00"E 2282.00'
378.00'
37TH ST. NO.
1504.60' WEST OF NW COR. NW1/4
915.126'(D,M)
N00°26'22"E(C-D,M)
RES. "H"
N90°00'00"E(C-D,M) 378.00'(D,M)
148.00
143.22
-30.38-
-20' DRIVE-
UTIL. ESMT.
10' UTIL. EASEMENT
5' SETBACK
50.66'
N55°16'22"E 128.03'
N72°43'43"W 1.02.84'
50ft
N85°34'13"E 165.39'
N89°33'38"W 148.86'
N89°33'38"W 146'
N85°34'13"E 162.68'
N89°33'38"W 161.31'
BROOKVIEW CT.
N00°26'22"E 384.94'
Δ=16°38'02"
R=1325.00'
L=384.74'
N90°00'00"W 177.
CIR
RESERVE "B"
SEE DETAIL "A"
N45°26'22"E 886.55'
DETAIL "A"
1"=50'
RES. "D" (8'X40')
Δ=54°51'33" R=100' L=95.75'
Δ=37°25'24" R=119.66' L=78.16'
Δ=59°59'59" R=147.00' L=153.94'
Δ=38°36'54" R=91.43' L=61.63'
Δ=42°54'31" R=91.43' L=68.48'
SANDPLUM CT.
15' STREET, DRNG. & UTIL EASEMENT
S89°33'38"E 626.34'(P,M)
N00°26'22"E 84.00'(P,M)
S89°33'38"E 700.00'(P,M)
34TH STREET NORTH
178.13'
345.56'
25' BUILDING SETBACK
RESERVE "A"
RIDGE ROAD
S00°26'22"W
NE COR. LOT 6 RIDGE PORT NORTH ADD.
SE COR. LOT 6 RIDGE PORT NORTH ADD.
S00°31'10"W 2632.77'(C-D,M)
SW COR. NW1/4, SEC. 34, TWP. 26-S, R-1-W
S89°46'23"W 2268.67'(C-D,M)
S89°46'23"W 360.02'(C-D,M)
25' UTILITY EASEMENT
DRAINAGE EASEMENT
310.08'
N72°43'43"W 244.97'
S87°07'34"E 501.65'
135.38'
388.19'
519.51'
S89°46'23"W(BASIS OF BEARINGS)
2268.67'(D,M)(TO CENTER OF SEC. 34)
HAZELWOOD CT.
HAZELWOOD
STREET NORTH
N89°46'23"E 420.94'(TO NE COR.
N89°46'23"E 190.64'
R=295'
L=299.26'
Δ=58°06'35"
R=765'
L=305'
L=307.40'
Δ=64°17'34"
R=275'
L=308.67'
Δ=64°00'00"
R=143'
L=159.73'
Δ=90°00'00"
R=300'
L=471.24'
Δ=37°36'58"
R=300'
L=197.02'
Δ=37°36'58"
R=300'
L=197.02'
Δ=16°38'02"
R=1325.00'
L=384.74'
Δ=90°00'00"
R=25'
L=39.27'
Δ=90°00'00"
R=25'
L=39.27'
Δ=90°00'00"
R=25'
L=39.27