Lat. 142, War Industries Sewer

SANITARY SEWER IMPROVEMENTS

to serve

Pebblebrook Addition - Phase III

CITY OF WICHITA, KANSAS

Michael E. Lindebak, P.E. City Engineer

Project Number

468-82884

Index Code:

743575

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:

Multimedia Cablevision	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. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

4. The Contractor shall 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.

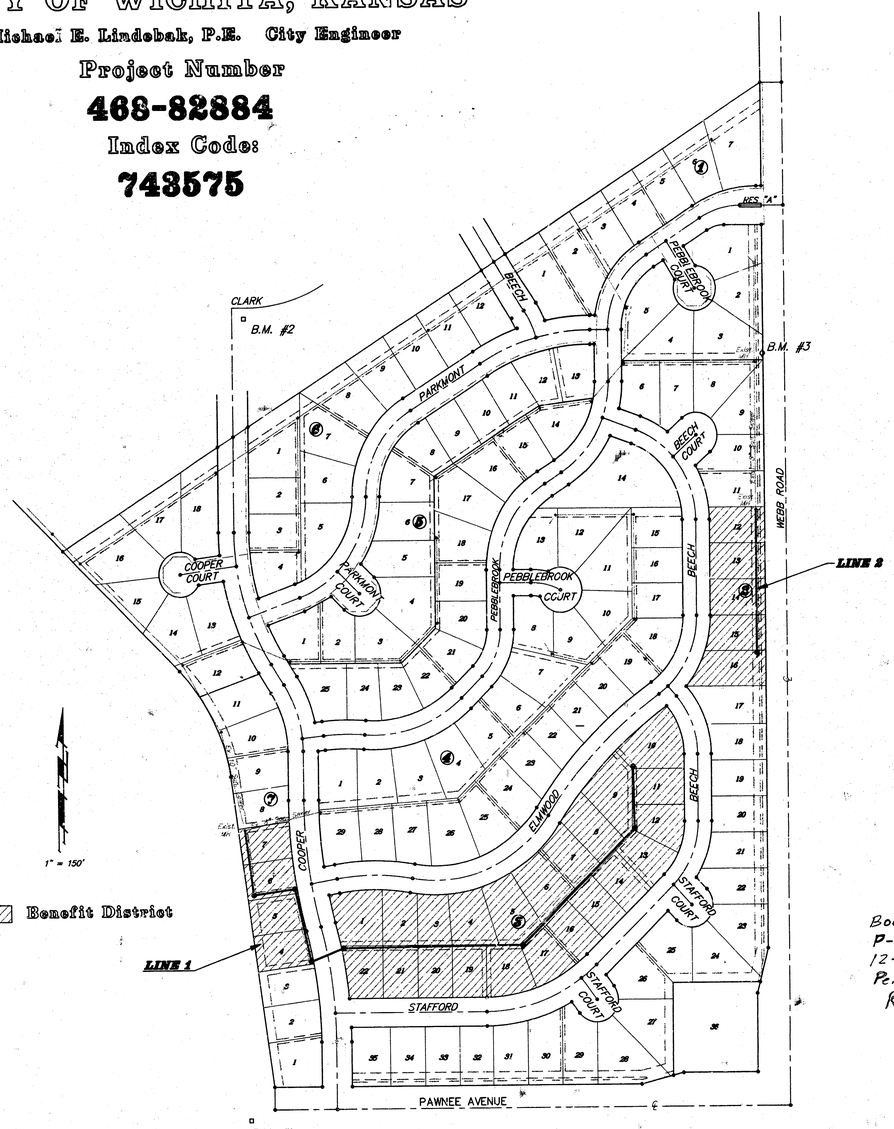
5. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

6. Contractor shall grade the sanitary sewer alignment to the profile and elevations shown on the easement grading plans. All costs for grading shall be paid as lump sum for easement grading.

7. All areas disturbed by construction operations shall by seeded with rye grass at a rate of 300 lbs/acre immediately following construction in that area. Prior to seeding, area shall be prepared per City specs.

8. 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.

9. When connecting to existing MH or stub, the contractor shall reshape MH bottom or adjust the existing stubs's alignment or elevation as necessary. Cost shall be subsidiary to other bid items.



BENCHMARKS:

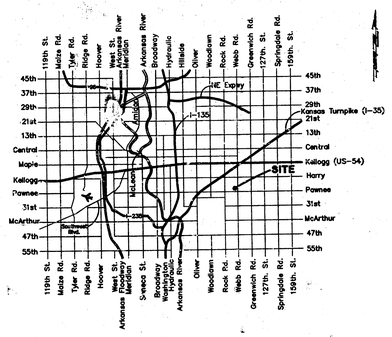
"□" Cut on top of the S.E. Corner of the Headwall 1258 feet W. & 32 feet S. of the ℄'s of Pawnee Ave. & Webb Rd.
Elev. = 186.89 (City Datum)

"□" Cut of the top of curb at the E. end of the Return at the S.E. Corner of Cooper & Clark.
Elev. = 182.87 (City Datum)

R.R. Spike in the E. side of the High Line Pole 1667.86 feet N. & 51.57 feet W. of the ℄'s of Pawnee Ave. & Webb Rd.
Elev. = 190.70 (City Datum)

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Vicinity Map

Booked
P-54
12-11-98
Per Plan
R.D.L.

ALBERT WOTEN
LICENSED
PROFESSIONAL ENGINEER
DATE 11/20/98

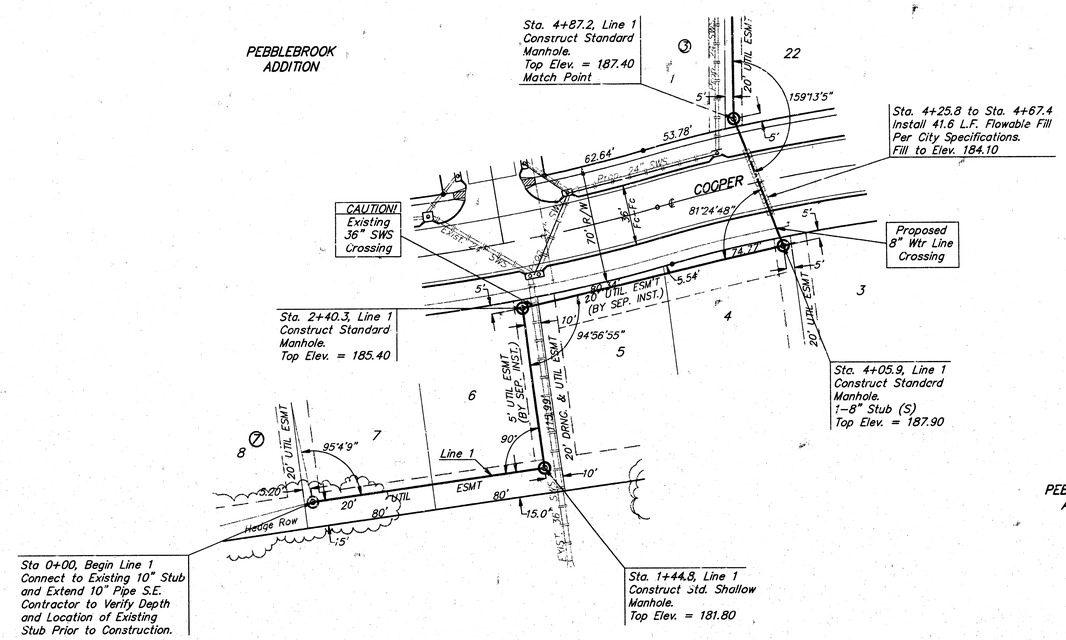
PEBBLE_PH3_DSGN

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

BENCHMARK:
"□" Cut on top of the S.E. Corner of the headwall 1259 feet W. & 19 feet S. of the the ℄'s of Pawnee Ave. & Webb. Elev. = 186.89 (City Datum)

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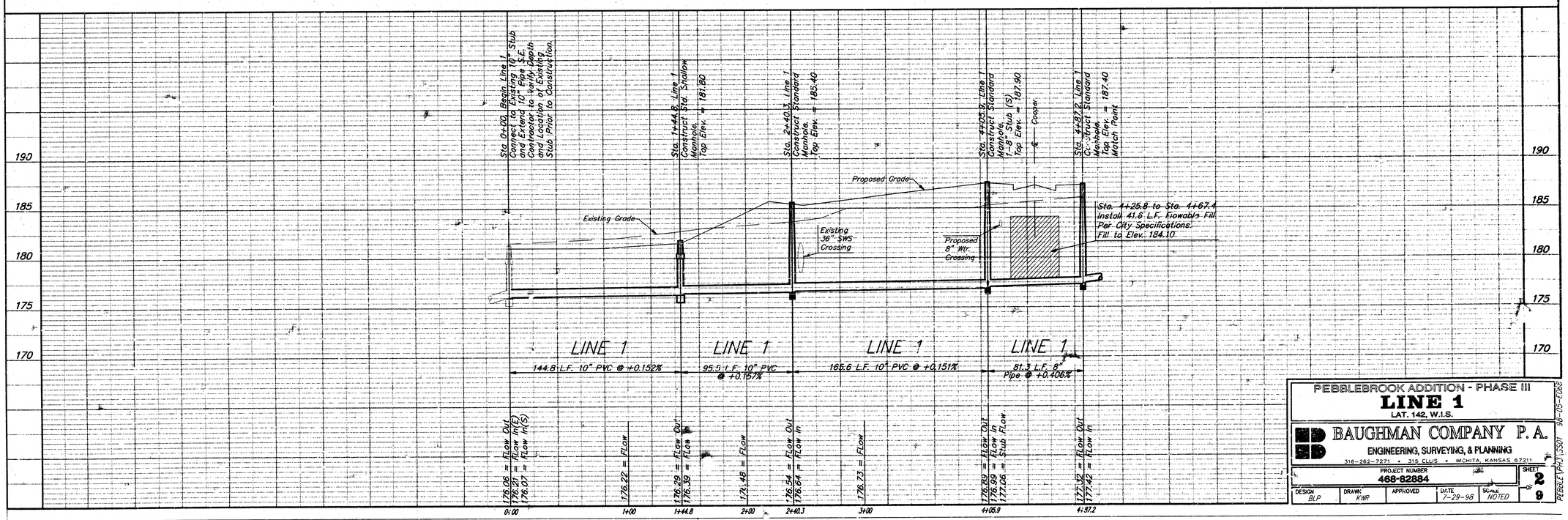
R.R. Spike in the E. side of 1ϕ High Line Pole 1669 feet N. & 52 feet W. of the ℄'s of Pawnee Ave. & Webb Rd. Elev. = 190.70 (City Datum)



SCALE:
1" = 40' HORIZONTAL
1" = 5' VERTICAL
● = IRON

Remove Existing Tree Row Only as Necessary For Construction. Cost to be Included in Bid Item "Site Clearing & Restoration"

PEBBLEBROOK ADDITION



PEBBLEBROOK ADDITION - PHASE III
LINE 1
LAT. 142, W.I.S.

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

PROJECT NUMBER 468-82884 | SHEET 2 OF 9

DESIGN	DRAWN	APPROVED	DATE	SCALE
BLP	KWR		7-29-98	NOTED

98-05-1003
PEBBLE\PH3\3501

BENCHMARK:
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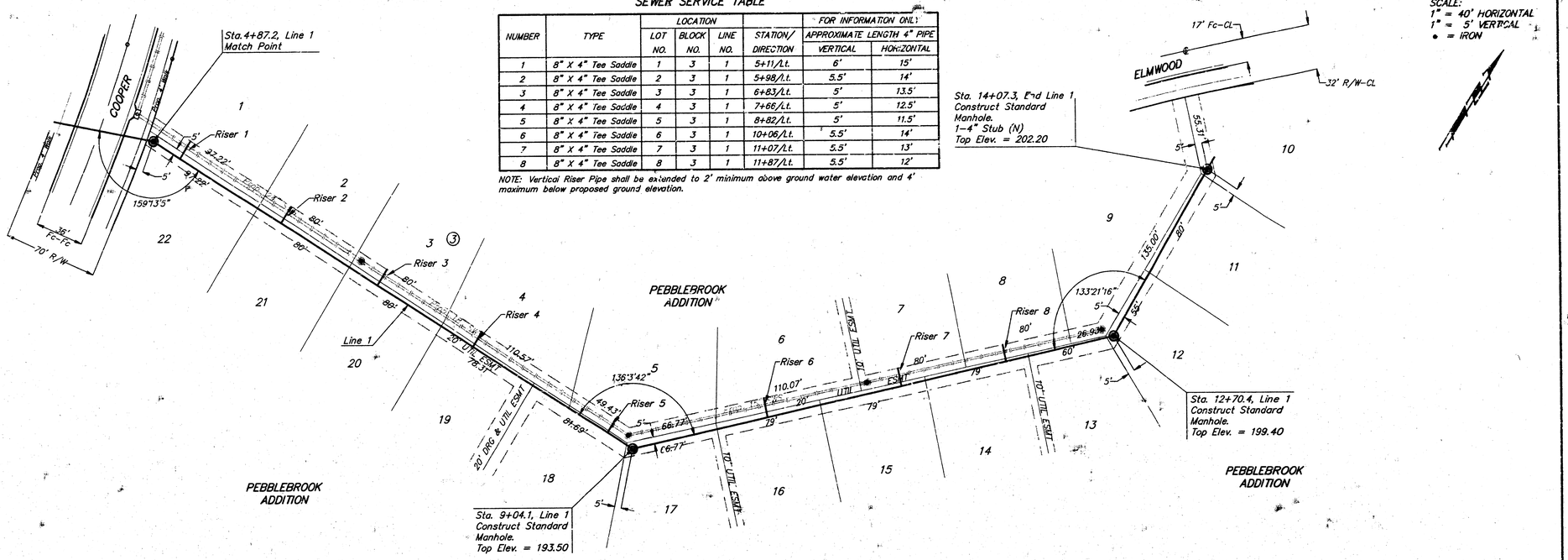
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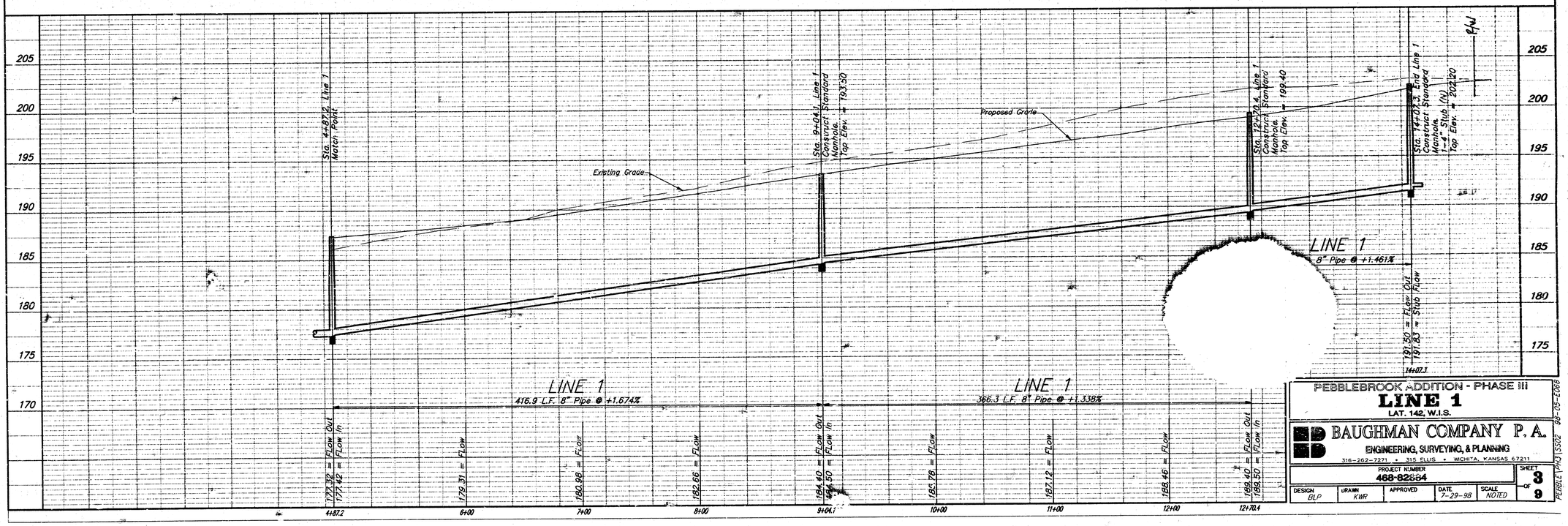
SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION LOT NO.	LOCATION BLOCK NO.	LOCATION LINE NO.	STATION/ DIRECTION	FOR INFORMATION ONLY: APPROXIMATE LENGTH 4" PIPE VERTICAL	APPROXIMATE LENGTH 4" PIPE HORIZONTAL
1	8" X 4" Tee Saddle	1	3	1	5+11/Lt.	6'	15'
2	8" X 4" Tee Saddle	2	3	1	5+98/Lt.	5.5'	14'
3	8" X 4" Tee Saddle	3	3	1	6+83/Lt.	5'	13.5'
4	8" X 4" Tee Saddle	4	3	1	7+66/Lt.	5'	12.5'
5	8" X 4" Tee Saddle	5	3	1	8+82/Lt.	5'	11.5'
6	8" X 4" Tee Saddle	6	3	1	10+06/Lt.	5.5'	14'
7	8" X 4" Tee Saddle	7	3	1	11+07/Lt.	5.5'	13'
8	8" X 4" Tee Saddle	8	3	1	11+87/Lt.	5.5'	12'

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

SCALE:
1" = 40' HORIZONTAL
1" = 5' VERTICAL
• = IRON





PEBBLEBROOK ADDITION - PHASE III
LINE 1
LAT. 142, W.I.S.

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

PROJECT NUMBER	SHEET
488-82884	3 OF 9

DESIGN	DRAWN	APPROVED	DATE	SCALE
BLP	KWR		7-29-98	NOTED

PEBBLE1.PM3 | 35x22 | 98-06-E068

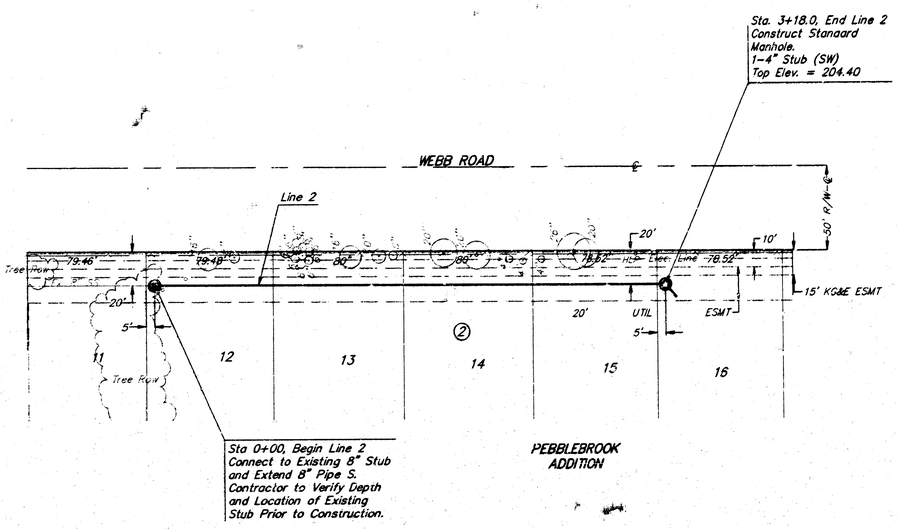
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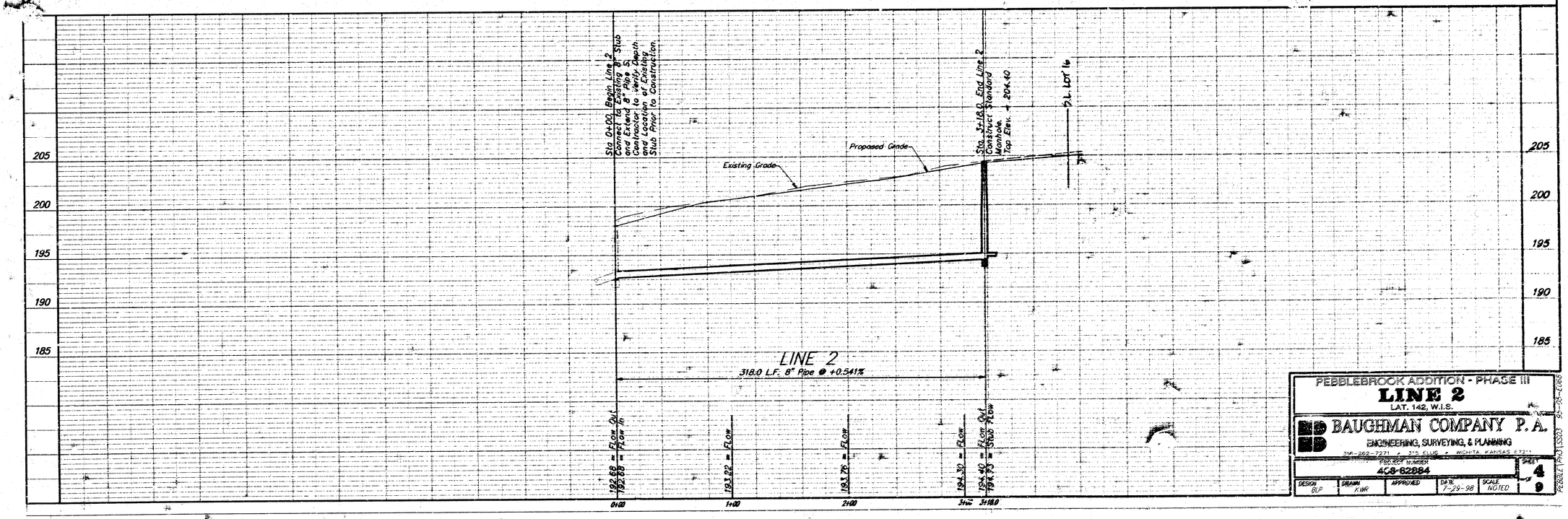
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Remove Trees Only as Necessary For Construction.
Cost to be Included in Bid Item "Site Clearing & Restoration"

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PEBBLEBROOK ADDITION - PHASE III
LINE 2
LAT. 142, W.I.S.

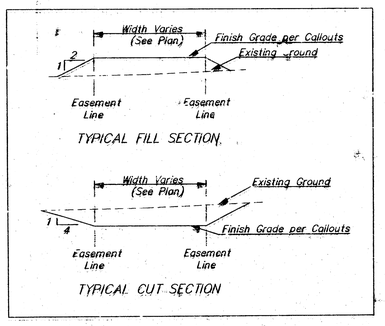
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FIELD BOOK NUMBER: 408-82684
SHEET: 4 of 9

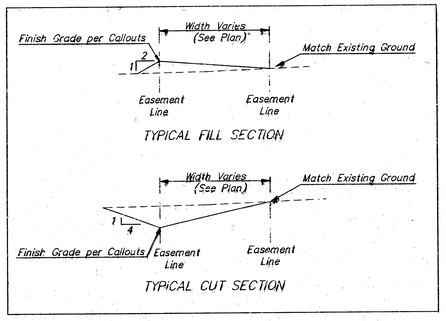
DESIGN	DRAWN	APPROVED	DATE	SCALE
BLP	KWR		7-29-98	NOTED

K:\2682\PH3\S003 98-05-2682

BENCHMARK:
City of Wichita Bench Mark Disc.,
53' S. and 47' W. of the Centerline
Intersection of Webb Road and
Pawnee Avenue.
Elev. = 205.68 City Datum
Elev. = 1393.08 MSL Datum



SECTION A–A



SECTION B–B

1" = 50'

● = Iron

▨ = Easements To Be Graded

Approximate Easement Grading Quantities:
(For Information Only)
Excavation: 1204 C.Y.
Fill: 377 C.Y.

The contractor shall grade the easements as shown to the elevations given on the easement grading plan. All costs for grading shall be incidental to the Easement Grading Bid Item.

The contractor shall 'straight' grade the easements between the elevations given. Where a callout designates 'Match', the contractor will grade to the existing ground elevation.

Earthwork is to be left on site. Contractor shall spread excess soil along west side of Cooper and other areas to be designated by Baughman Company.

PEBBLEBROOK ADDITION - PHASE III

ESMT GRADE PLAN

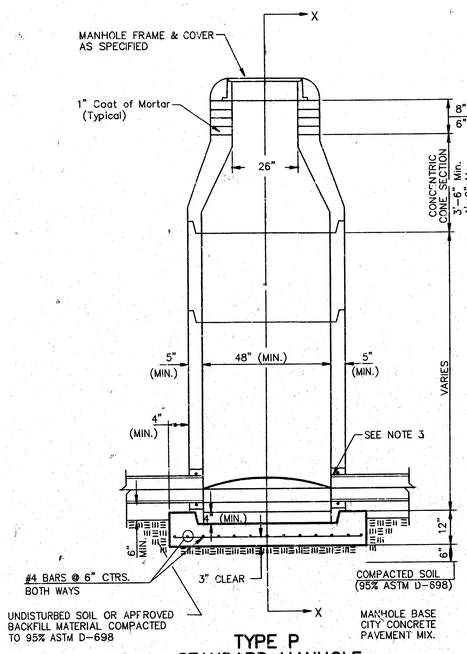
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PROJECT NUMBER	SHEET
486-82884	5 OF 9

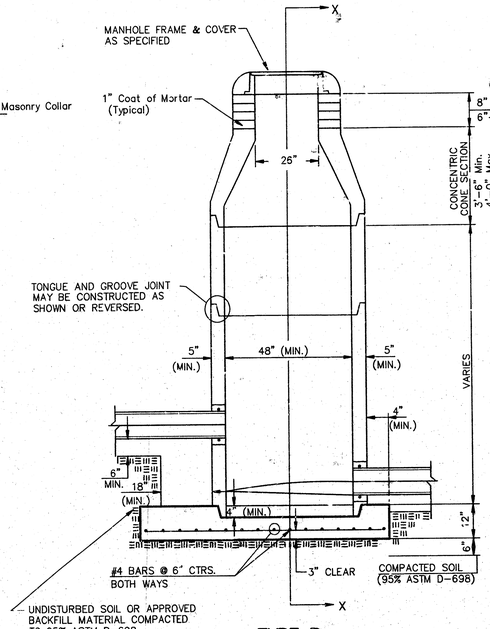
DESIGN	DRAWN	APPROVED	DATE	SCALE
BLP	KWR		7-29-98	NOTED

PEBBLE PHASE III.SWF/GRD

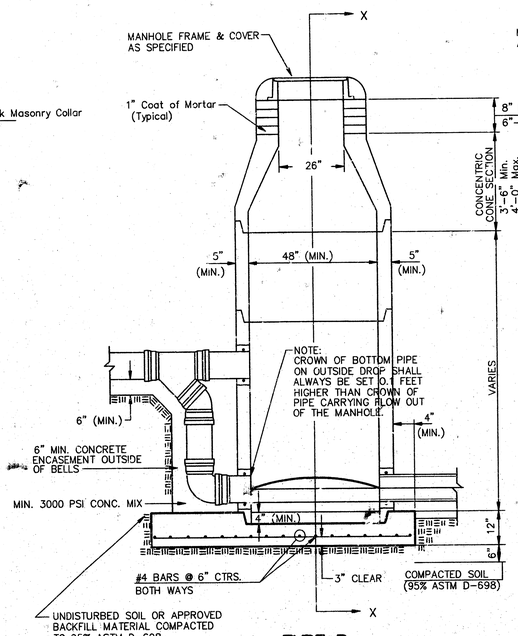
SEWER APPURTENANCES DETAILS



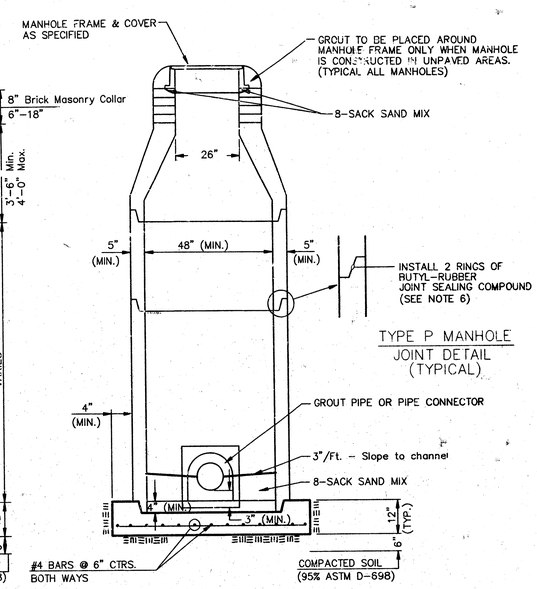
TYPE P
STANDARD MANHOLE



TYPE P
INSIDE DROP MANHOLE

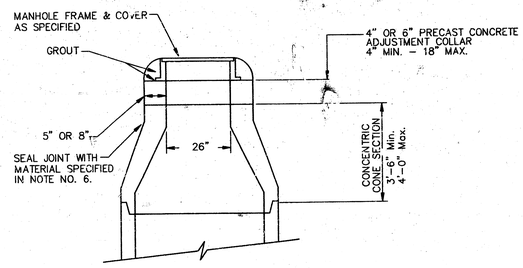


TYPE P
OUTSIDE DROP MANHOLE



TYPE P MANHOLE
JOINT DETAIL
(TYPICAL)

SECTION X
(TYPICAL)



ALTERNATE CONSTRUCTION
IN UNPAVED AREAS

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 TNEMEC SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)

   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 NONSHRINK 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.

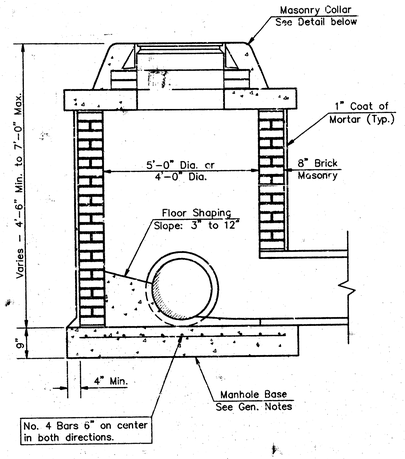
CITY OF WICHITA
STD. MANHOLE DETAILS
& SEWER APPURTENANCES DETAILS

BAUGHMAN COMPANY P.A.
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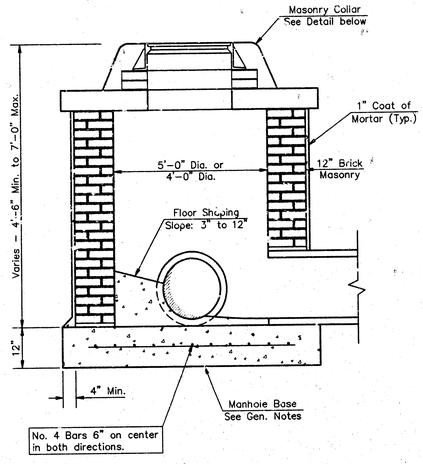
PROJECT NUMBER	SHEET #
468-82384	8 OF 9

DESIGN	DRAWN	APPROVED	DATE	SCALE
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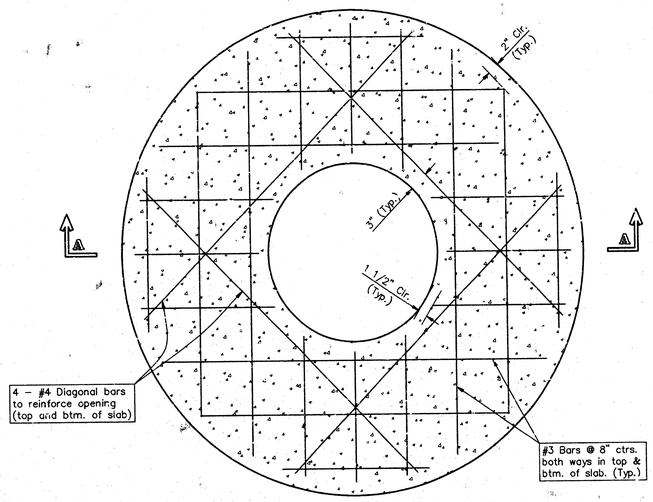
PEBBLE [143] PWM 98-05-E068



SHALLOW TYPE "A" MANHOLE



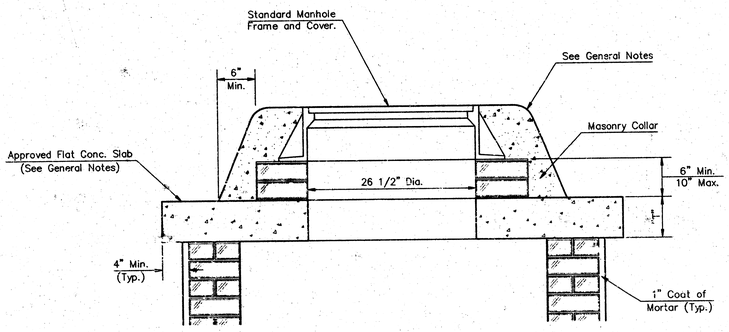
SHALLOW TYPE "B" MANHOLE



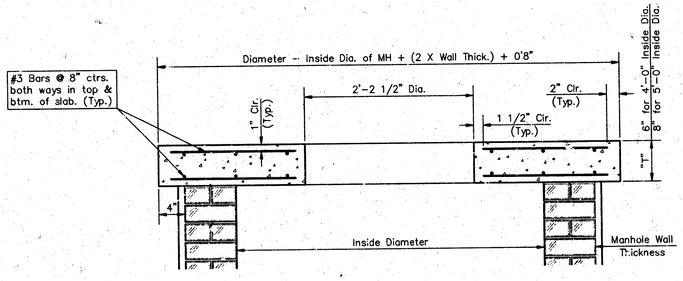
PLAN

GENERAL NOTES

1. 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 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. Type "A" shallow manholes can be used on sewers when the manhole is not located within public street pavement. 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.
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 5" 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 "A" and "B" shall be paid for at the unit price bid per each for the type and diameter indicated. Standard special shallow manholes type "A" and "B" shall be paid for at the unit price bid per each for the type 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.

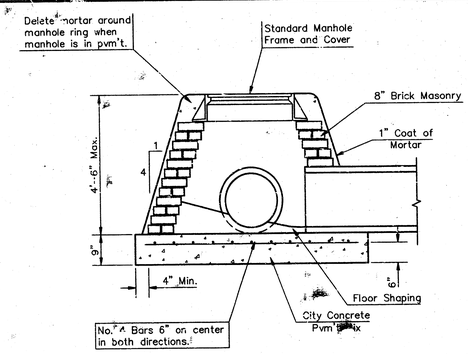


MASONRY COLLAR DETAIL

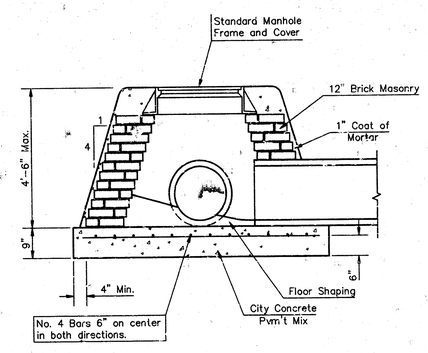


SECTION A-A

FLAT CONCRETE SLAB DETAILS



SPECIAL SHALLOW TYPE "A" MANHOLE



SPECIAL SHALLOW TYPE "B" MANHOLE

CITY OF WICHITA, KANSAS

STD. SHALLOW MANHOLES

TYPE "A" AND TYPE "B"

BAUGHMAN COMPANY P.A.

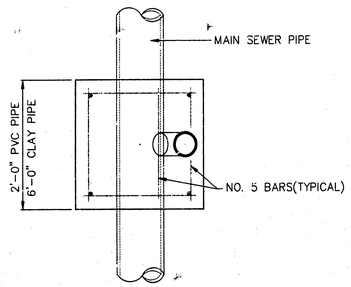
ENGINEERING, SURVEYING, & PLANNING

316-262-2221 • 315 ELLIS • WICHITA, KANSAS 67211

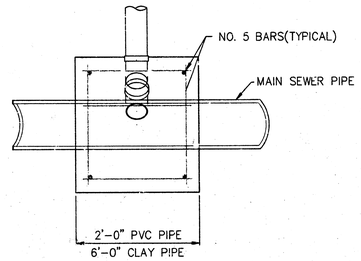
PROJECT NUMBER					SHEET
488-82884					7 OF 9
DESIGN	DRAWN	APPROVED	DATE	SCALE	
C.O.W.	Staff		7-29-98	NONE	

488-05-0008

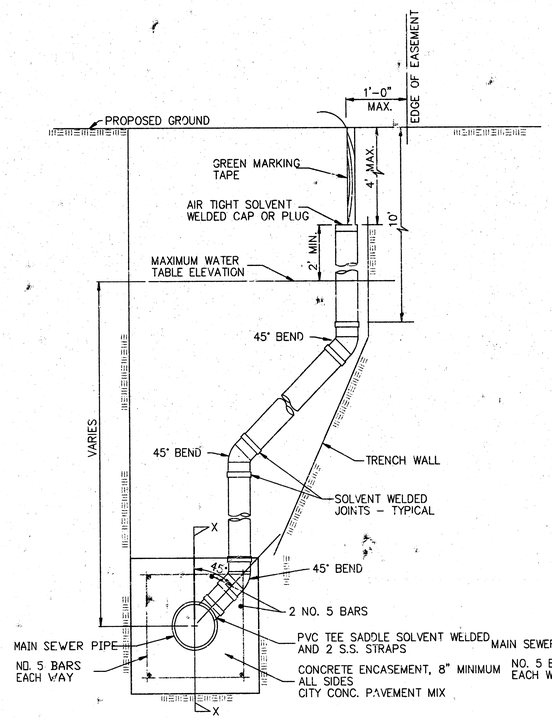
VERTICAL RISER DETAILS
ADOPTED AS STANDARD DESIGN
BY
CITY OF WICHITA, KANSAS
OCTOBER 1992



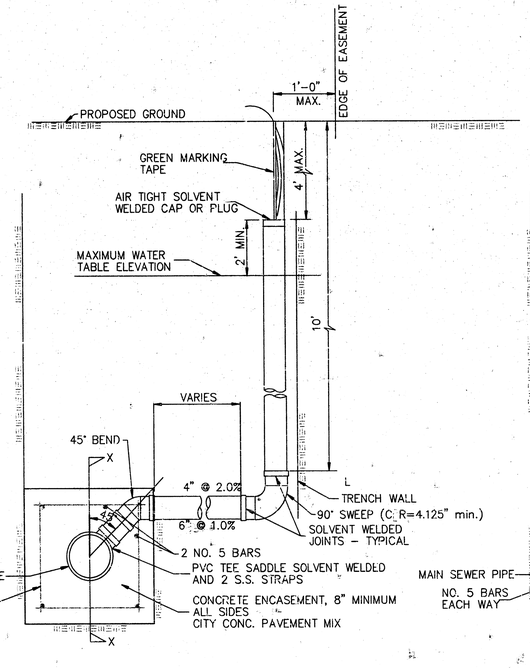
TYPICAL PLAN VIEW



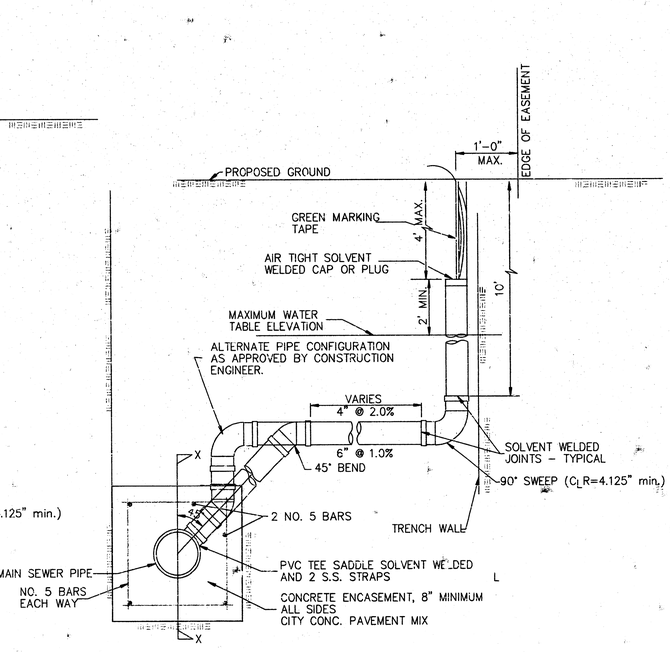
TYPICAL SECTION X–X



METHOD "A"



METHOD "B"



METHOD "C"

NOTE: RISER PIPE REQUIREMENTS AT MANHOLE STUBS SHALL BE SIMILAR TO THOSE SHOWN ABOVE.

GENERAL NOTES

1. RISERS. Risers shall be installed to serve all lots or tracts where the sanitary sewer main is below the water table. Risers shall also be installed to serve all lots and tracts where the sanitary sewer main depth is greater than 12 feet below the proposed ground elevation. Installation of risers because of field conditions shall be as approved by the Construction Engineer. The location of the risers to serve developert property shall be approved by the property owner and the Construction Engineer.

2. PIPE STUBS. Pipe stubs shall be installed in manholes where locations of manholes will provide satisfactory service connection as determined by the Construction Engineer. The vertical distance between the flowline of the manhole pipe stub and the flowline of the sanitary sewer main out of the manhole shall not exceed 2 feet. Risers shall be utilized at mannole pipe stubs as indicated in Note 1. Manhole pipe stubs shall be set such that the top of the stub is not lower than the top of the sanitary sewer main.

3. SIZING. Pipe stubs and risers shall be sized according to the plans and riser table where risers are indicated by the plans. Where risers or pipe stubs are required because of field conditions, the risers and stubs shall be six-inch diameter for commercial or industrial properties and 4" or 6" diameter for residential properties, based on lot size and sanitary sewer main depth. Sizing of risers and stubs shall be approved by the Construction Engineer prior to installation.

4. RISER OR STUB MATERIAL. Risers and stubs shall be constructed of SDR 35 PVC Pipe or Schedule 40 PVC Pipe, meeting the requirements of the latest revision of A.S.T.M. . All pipe joints shall be solvent welded.

5. REINFORCED CONCRETE ENCASEMENT. Riser connections to clay pipe sanitary sewers shall be reinforced concrete encased both ways from the riser centerline. The reinforced concrete encasement shall extend three feet from the riser centerline or stop at the first sanitary sewer pipe joint within three feet of the riser centerline. Riser connections to PVC Sanitary Sewer mains shall be reinforced concrete encased one foot each way from the riser centerline. The concrete encasement shall be reinforced using reinforcing steel as shown in the appropriate drawing. The concrete shall confirm to the City Standard Specifications for concrete pavement.

6. BEDDING. Bedding around the sanitary sewer riser shall be compacted Pipe Bedding Type 1 or 2. The bedding shall be placed and compacted from the depth of the sanitary sewer main to the top of the sanitary sewer riser pipe. Compacted Pipe Bedding Type 1 or 2 shall be required for all risers whether constructed in vertical wall or sloped wall trenches. Bedding material and construction practices shall be approved by the Construction Engineer prior to installation.

7. SUPPORT OF RISERS. Sanitary sewer riser pipe shall be supported during trench backfill. The riser pipe shall be held in a vertical position at all times until trench backfill and compaction has been completed. Contractor's methods for supporting and backfilling the riser pipe shall be approved by the Construction Engineer.

8. PLUGGING. The ends of the riser pipes and mannole stubs shall be plugged using an airtight solvent welded cap or plug. Cap or plug fittings shall be approved by the Construction Engineer prior to installation. Caps or plugs which do not provide an airtight seal will not be accepted.

9. TOP OF THE RISER PIPE. The top elevation of the sanitary sewer riser pipe shall be built per plan elevations, unless otherwise directed by the Construction Engineer. Where riser elevations are not shown on the plans, the top of the risers shall be set at an elevation four feet below the proposed ground surface. If ground water is encountered, the top of the riser pipe shall be set at an elevation two feet (2'min.) above the maximum water table elevation, regardless of the riser elevation shown on the plans.

10. MARKING. Locations of the ends of the sanitary sewer riser pipe shall be marked by fastening green colored plastic tape to the end of the riser. The tape shall be supported by a length of wooden 2 x 4, extending from the top of the riser pipe to the proposed ground surface. The green tape shall be visible and extend one foot above the proposed ground surface. The green tape shall be 4 mil Polyethylene film with a minimum width of three inches, specifically manufactured for the purpose of identification of underground sewers.

11. LOCATION MEASURES. The project inspector shall record and document the location of all risers constructed as measured from the nearest manhole, indicating the direction from the manhole, the direction and distance from the main, riser size, and elevation of the top of the riser.

12. RISER LOCATION. The riser shall be located per plan if shown. If not shown on the plan, the riser shall be located at the center of the lot, within one foot of the property side of the easement for the building served. All riser locations shall be approved by the Construction Engineer prior to installation.

13. [illegible] shall be paid for at the [illegible] price shall be full [illegible] marking tape, length of [illegible] easement, support during [illegible] and any other

[illegible] contract unit price [illegible] for all labor, [illegible] complete the work [illegible] crete encasement, [illegible] ed for Sanitary Sewer

City of Wichita Standard
Riser Details

99-05-2782

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

PROJECT NUMBER				SHEET
468-82884				8 OF 9
DESIGN	DRAWN	APPROVED	DATE 7-29-98	SCALE NONE

PEBBLEBROOK ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

1" = 100'

- ● = 1/2" Baughman Rebar Set
- ◉ = 1/2" Iron Found
- ○ = 1/2" Baughman Rebar Found

Bearing Base = Assumed

MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING OF STRUCTURE

Lot & Block	Elevation City Datum	Elevation MSL
1- BLK. 7	186.0	1378.4
2- BLK. 7	185.0	1372.4
3 - BLK. 7	184.0	1371.4
4 - BLK. 7	183.0	1370.4
5 - BLK. 7	182.5	1369.9
6, 7 - BLK. 7	182.0	1369.4
8 - BLK. 7	181.5	1368.9
9 - BLK. 7	181.0	1368.4
10, 11 - BLK. 7	180.5	1367.9
12, 14, 15, 16 - BLK. 7	180.0	1367.4

BENCHMARK:
City of Wichita Bench Mark Disc., 33' S. and 47' W. of the Centerline Intersection of Webb Road and Pawnee Avenue.
Elev. = 205.88 City Datum
Elev. = 1393.08 MSL Datum

'e of Kansas)
) SS
Sedgwick County)

We, Baughman Company P.A., Surveyors in aforesaid county and state do hereby certify that we have surveyed and platted, "PEBBLEBROOK ADDITION", Wichita, Sedgwick County, Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed describeu as and being a replat of Lots 18, 19, 20, 21, 22, and 23, Blk 1, and Lots E, 9, 10, 11, 12, 13, and 14, Blk 4, and Lots 48, 49, 50, 51, 52, 53, and 54, Blk 5, together with all of Bellaire Street, and all of Cooper Ct., and that portion of Cooper Street lying south of a line extended from the N. E. Corner of said Lot 48, Blk 5 to the N.W. Corner of said Lot 14, Blk. 4, and that portion of Beech Street lying south of a line extended from the N.E. Corner of said Lot 8, Blk. 4, to the N.W. Corner of said Lot 18, Blk. 1 and that portion of Webb Road lying west of the east line of the S.E. 1/4 of Sec. 32, Twp. 27 S, R-2-E of the 6th P.M., Sedgwick County, Kansas and lying north of the south line of Bellaire Street and lying south of a line extended from the N.E. Corner of said Lot 23, Blk. 1, east perpendicular to the east line of said S.E. 1/4, all as platted in Hedgecliff 3rd Addition, Wichita, Kansas, together with all of Hedgecliff 5th Addition, Wichita, Sedgwick County, Kansas.

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

2-9-93 — Baughman Company, P.A.

Gregory F. Severns — Surveyor

GREGORY F. SEVERNS REGISTERED L.S.-876 KANSAS LAND SURVEYOR

Know all men by these presents that we, the undersigned owners, have caused the land described in the surveyors certificate to be platted into Lots, Blocks, Streets and a Reserve to be known as "PEBBLEBROOK ADDITION", Wichita, Sedgwick County, Kansas. Reserve "A", is hereby reserved for entry monuments, landscaping and for street and utility purposes. Reserves "A" shall be owned and maintained by the homeowners association for the addition. The utility easements are hereby granted for the construction and maintenance of all public utilities. The drainage easements are hereby granted for drainage purposes. The drainage and utility easements are hereby granted as indicated for drainage purposes and for the construction and maintenance of all public utilities. The streets are hereby dedicated to and for the use of the public. All abutters rights of access to or from Pawnee Avenue over and across the south line of Lot 1, Blk 7, and Lots 28, 29, 30, 31, 32, 33, 34, 35, 36, Blk. 2, except that Lot 36 shall have one access to Pawnee Ave. over the west 100', and all abutters rights of access to or from Webb Road over and across the east line of Lot 7, Blk 1, and Lots 1, 2, 3, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 36, except that Lot 36 shall have one access to Webb Road over the north 100', are hereby granted to the City of Wichita. Access to Lot 36, Blk 2 shall be as determined by the City Engineer. The Minimum Building Pad Elevations for the lowest opening to the structures are as shown on the accompanying plat.

Fidelity Investment Company
H. Clay Bastin — President

The Margaret K. Kessler Revocable Trust dated 9-7-89
Margaret K. Kessler — Trustee
(Margaret K. Kessler)

First National Bank in Wichita
Trustee of the Frank M. Kessler Testamentary Trusts "B" and "C".
Roger W. Lemon Jr. — Assitant Vice-President and Trust Real Estate Officer
Roger W. Lemon Jr.

State of Kansas)) SS
Sedgwick County)

The foregoing instrument acknowledged before me, this 1st day of February 1993, by H. Clay Bastin, President of Fidelity Investment Company, on behalf of Fidelity Investment Company.
My appointment Expires _____
Shirley R. McColm — Notary Public
Shirley R. McColm

SHIRLEY R. McCOLM NOTARY PUBLIC STATE OF KANSAS My Appt. Exp. 10-17-97

20.00 cl

State of Kansas)) SS
Sedgwick County)

The foregoing instrument acknowledged before me, this 4th day of February 1993, by ~~Elmer L.~~ Roger W. Lemon ~~Patton~~ Vice-President and Trust Real Estate Officer of First National Bank in Wichita, Trustee of the Frank M. Kessler Testamentary Trusts "B" and "C", on behalf of the Trust.
My Appointment Expires 1-3-94
Patricia Dennis — Notary Public
Patty Ellis Dennis

NOTARY PUBLIC My Appt. Exp. 1-3-94 STATE OF KANSAS

This plat of PEBBLEBROOK ADDITION, Wichita, Sedgwick County, Kansas, has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.
Dated this 14th day December 1992.
Wichita-Sedgwick County Metropolitan Area Planning Commission.

J. E. Dale Goss — Chairman
L. O. Breckenridge Jr.
Melvin Grant — Secretary
Marvin S. Krout

SEAL — WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION KANSAS

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this 23rd day of February 1993.

Frank M. Ollie — Mayor
Frank M. Ollie

Pat Burnett — City Clerk
Pat Burnett

HEALTH OF THE CITY SEDGWICK COUNTY, KANSAS

Entered on transfer record this 9th day of April 1993.
Susan E. Crockett Sparks — County Clerk
Susan E. Crockett Sparks

#1281506

COUNTY OF SEDGWICK COUNTY KANSAS

State of Kansas)) SS
Sedgwick County)

This is to certify that this plat has been filed for record in the office of the Register of Deeds, this 9TH day of APRIL 1993, at 3:30 o'clock P M; and is duly recorded.

Pat Kettler — Register of Deeds
Pat Kettler

Ed Resa — Deputy
Ed Resa

PC 36-1

11-20-91