

THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Sean W. McAdam and Debra J. McAdam, (hereinafter "Owner").

WITNESSETH:

That for and in consideration of the sum of One Dollar, \$ \*\*1.00\*\* and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:

The East 30.00 feet of the West 53.00 feet of Lot 3, Block 4, Brookhaven Estates, Sedgwick County, Kansas.

1723287 8-8# FILM 825 PAGE 0197

EASEMENT FOR SANITARY SEWER

MI-02424 Brookhaven Estates Tract P4

THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Sean W. and Debra J. McAdam, (hereinafter "Owner").

WITNESSETH:

That for and in consideration of the sum of One Dollar, \$ \*\*1.00\*\* and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:

The East 15.00 feet of the West 23.00 feet of Lot 3, Block 4, Brookhaven Estates, Sedgwick County, Kansas.

TEMPORARY CONSTRUCTION EASEMENT

C-53774 Brookhaven Estates Tract T6

THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Yvonne S. Hodges Revocable Trust, (hereinafter "Owner").

WITNESSETH:

That for and in consideration of the sum of One Dollar, \$ \*\*1.00\*\* and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:

The West 40.00 feet of the North 30.00 feet of the East 48.00 feet of Lot 4, Block 4, Brookhaven Estates, Sedgwick County, Kansas.

TEMPORARY CONSTRUCTION EASEMENT

C-53775 Brookhaven Estates Tract T6

THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Yvonne S. Hodges Revocable Trust, (hereinafter "Owner").

WITNESSETH:

That for and in consideration of the sum of One Dollar, \$ \*\*1.00\*\* and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:

The West 30.00 feet of the East 48.00 feet of Lot 5, Block 4, Brookhaven Estates, Sedgwick County, Kansas except the Strawberry Garden.

1725882 8-17# FILM 828 PAGE 0054

EASEMENT FOR SANITARY SEWER

MI-02426 Brookhaven Estates Tract P6

THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Yvonne S. Hodges Revocable Trust (hereinafter "Owner").

WITNESSETH:

That for and in consideration of the sum of One Dollar, \$ \*\*1.00\*\* and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:

The West 10.00 feet of the East 18.00 feet of Lot 5, Block 4, Brookhaven Estates, Sedgwick County, Kansas.

# BUREAU OF PUBLIC SERVICES

## TEMPORARY CONSTRUCTION EASEMENT

Brookhaven Estates Tract T5

THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Williams J. Fields, (hereinafter "Owner").

WITNESSETH:

That for and in consideration of the sum of ONE DOLLAR, \$ 1.00 and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:

The South 40.00 feet of the East 45.00 feet of West 53.00 feet of Lot 6, Block 4, Brookhaven Estates, Sedgwick County, Kansas except the South 15.00 feet of the West 15.00 feet thereof.

1723286 8-8# FILM 825 PAGE 0196

EASEMENT FOR SANITARY SEWER

MI-02427 Brookhaven Estates Tract P5

THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by William J. Fields, (hereinafter "Owner").

WITNESSETH:

That for and in consideration of the sum of One Dollar, \$ \*\*1.00\*\* and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:

The South 15.00 feet of the East 15.00 feet of the West 23.00 feet of Lot 6, Block 4, Brookhaven Estates, Sedgwick County, Kansas.

## TEMPORARY CONSTRUCTION EASEMENT

C-53795 Brookhaven Estates Tract T7

THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Charles H. Hilding ETUX, (hereinafter "Owner").

WITNESSETH:

That for and in consideration of the sum of One Dollar, \$ \*\*1.00\*\* and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:

The West 30.00 feet of the East 48.00 feet of Lot 1, Block 7, Brookhaven Estates, Sedgwick County, Kansas.

1723284 8-8# FILM 825 PAGE 0194

EASEMENT FOR SANITARY SEWER

MI-02446 Brookhaven Estates Tract P7

THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Charles H. Hilding ETUX, (hereinafter "Owner").

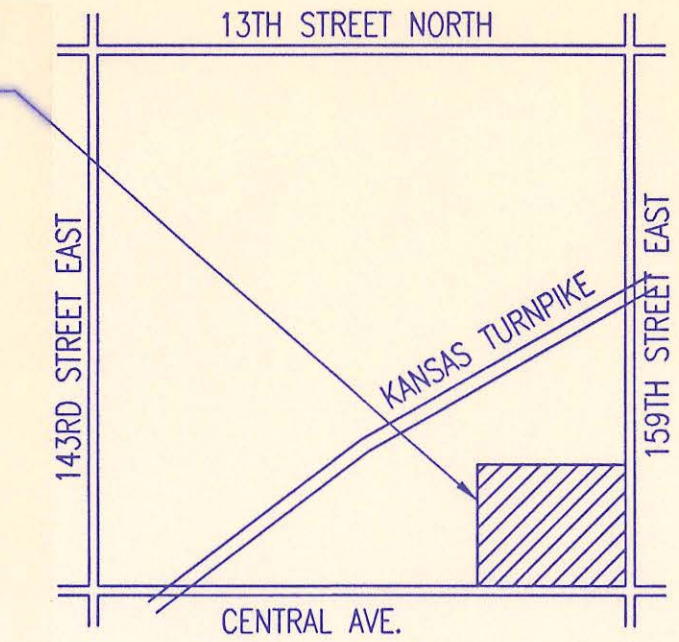
WITNESSETH:

That for and in consideration of the sum of One Dollar, \$ \*\*1.00\*\* and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:

The West 10.00 feet of the East 18.00 feet of Lot 1, Block 7, Brookhaven Estates, Sedgwick County, Kansas.

4MC-074

PROJECT AREA BROOKHAVEN ESTATES PHASE 1



### LOCATION MAP

NOT TO SCALE

### INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	KEY MAP
SHEET NO. 3	PLAT
SHEET NO. 4	PRECAST MANHOLE DETAILS
SHEET NO. 5	TRENCH AND BACKFILL DETAILS
SHEET NO. 6	SERVICE CONNECTION DETAILS
SHEET NO. 7-9	PLAN/PROFILE



# SANITARY SEWER IMPROVEMENTS

## IN BROOKHAVEN ESTATES (PHASE 1)

### TO SEDGWICK COUNTY, KANSAS

## JUNE 2000

# PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS

### RECORD DRAWING

APPROVED:

*David C. Spears*  
DAVID C. SPEARS, P.E.  
DIRECTOR OF PUBLIC SERVICES/COUNTY ENGINEER  
DATE: 6/23/00

APPROVED:

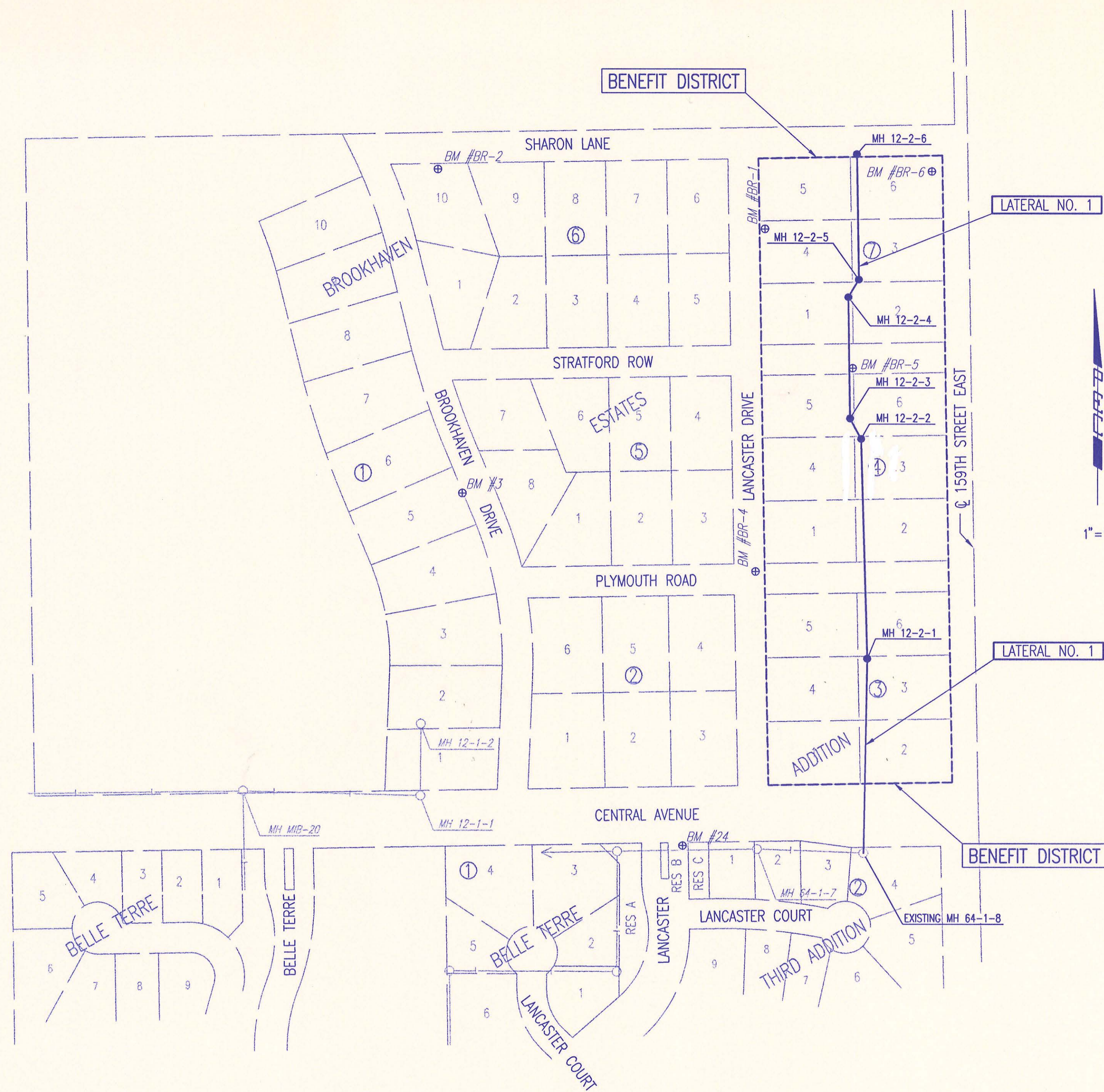
*James D. White*  
CHAIR, BOARD OF COUNTY COMMISSIONERS  
DATE: 6-20-00

FILED IN THE OFFICE OF THE SEDGWICK COUNTY CLERK  
*Anna [Signature]*  
COUNTY CLERK  
DATE: 6/20/00



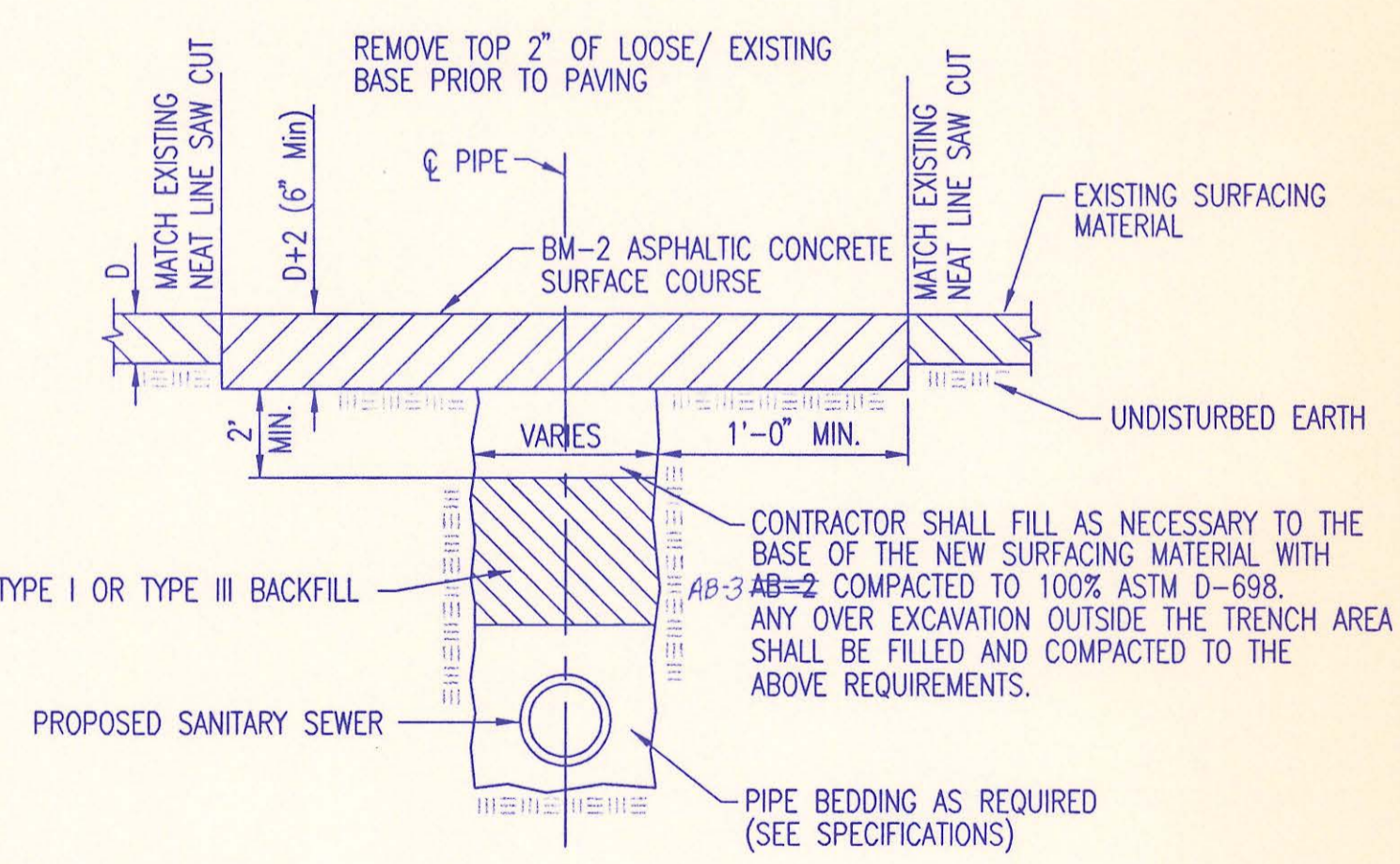
4MC-074 COPY  
DSNR: MDK OPER: ILS SCALE: 1"=1.00'  
03/1998 ORIGINAL EXEMPT 06-08-07000 11-17-00

GENERAL NOTES



- ALL ELEVATIONS SHOWN ARE USGS DATUM.
- AT LEAST 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT 687-2470 TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA: MULTIMEDIA CABLE TV, WICHITA WATER, SOUTHWESTERN BELL TELEPHONE, KANSAS GAS SERVICE, AND KGE-ELECTRIC.
- THE BURIED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE LOCATIONS ONLY. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- AT LEAST 24 HOURS BEFORE CONNECTING NEW SEWER PIPE TO THE EXISTING SEWAGE SYSTEM, THE CONTRACTOR SHALL CONTACT THE SEDGWICK COUNTY EASTERN SEWER DISTRICT (733-0202). THE CONTRACTOR SHALL KEEP ANY CONSTRUCTION DEBRIS FROM ENTERING THE EXISTING SANITARY SEWER DURING CONSTRUCTION. TO PREVENT WATER OR DEBRIS FROM ENTERING THE EXISTING SEWER, A MECHANICAL PLUG SHALL BE INSTALLED AND MAINTAINED TO ISOLATE THE EXISTING SEWER FROM THE NEW CONSTRUCTION UNTIL THE NEW CONSTRUCTION IS CLEANED, TESTED, AND HAS BEEN ACCEPTED. THE WATER USED FOR CLEANING SHALL NOT BE ADDED TO THE FLOW OF THE EXISTING SEWER. THE CLEANING OR OTHERWISE ACCUMULATED WATER SHALL BE PUMPED OR OTHERWISE REMOVED PRIOR TO TELEVISIONING.
- ALL PIPE JOINTS SHALL BE LAID AND PUSHED 'FULL HOME', WITH THE BEVELED END OF THE SPIGOT MAKING FULL CONTACT WITH THE CHAMFERED AREA AT THE THROAT OF THE BELL OR SOCKET, WITH NO SEPARATION BETWEEN THEM. IF SEPARATION IS DETERMINED, THE PIPE SHALL BE EXCAVATED AND RE-LAID ACCORDING TO SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.
- EXCESS EXCAVATED MATERIAL AND OTHER DEBRIS SHALL BE WASTED ON SITES TO BE PROVIDED BY THE CONTRACTOR AS APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL CONTAIN HIS OPERATIONS TO PERMIT TRAFFIC THROUGH AND ACROSS CONSTRUCTION AT EXISTING ROADWAYS AT ALL TIMES. THE CONTRACTOR SHALL ERECT WARNING SIGNS, FLASHING LIGHTS, AND BARRICADES IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES TO ENSURE SAFETY AS DIRECTED IN THE GENERAL CONDITIONS. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL 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. PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL FLAG AND REFERENCE ALL PROPERTY CORNERS THAT MAY BE DISTURBED BY CONSTRUCTION OPERATIONS, AND VERIFY THESE IN THE FIELD IN THE PRESENCE OF THE ENGINEER AND THE CONTRACTOR'S SURVEYOR. AFTER CONSTRUCTION AND BEFORE THE FINAL INSPECTION, A LETTER SIGNED AND SEALED BY THE LICENSED LAND SURVEYOR CERTIFYING REPLACEMENT OF ALL DISTURBED PROPERTY CORNERS SHALL BE SUBMITTED TO THE ENGINEER.
- THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, AND BANKS TO THEIR ORIGINAL SLOPES AND GRADES. WHERE EXISTING ENTRANCE PIPE, DRAINAGE PIPE, SIGNS, FENCES, ETC., CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACED OR RESET UNLESS OTHERWISE INDICATED ON THE PLANS. THE REPLACEMENT OF ALL THE AFOREMENTIONED ITEMS, INCLUDING SEEDING, FERTILIZER, AND MULCHING SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
- EASEMENTS AND RIGHT-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ANY ADDITIONAL TEMPORARY EASEMENTS OR RIGHT-OF-WAY THAT HE DESIRES TO USE IN COMPLETING THE WORK.
- POSITIVE DRAINAGE SHALL BE PROVIDED FOR ALL AREAS ON OR NEAR SPOIL AREAS. NATURAL DRAINAGE WAYS SHALL BE MAINTAINED.
- THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ADJUTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF 10 DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION IN THE VICINITY OF THE AFFECTED PROPERTY.
- ALL TRENCH BACKFILL SHALL BE EITHER TYPE I OR TYPE III UNLESS NOTED OTHERWISE. TYPE I BACKFILL SHALL BE USED AT ALL EXISTING AND PROPOSED STREETS.
- THE CONTRACTOR SHALL ALSO CONTACT THE FOLLOWING AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION TO ADVISE THEM OF THE INTENDED WORK AND OF HIS PROPOSED SCHEDULE.  
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES  
1250 S. SENECA  
WICHITA, KS 67213  
MR. JIM WEBER  
(316) 383-7901
- THE CONTRACTOR SHALL AVOID REMOVAL OR TRIMMING OF ANY TREES WHERE POSSIBLE. WHERE THE CONTRACTOR BELIEVES THE REMOVAL OR TRIMMING IS UNAVOIDABLE, HE SHALL OBTAIN THE CONCURRENCE OF THE ENGINEER BEFORE PROCEEDING WITH SUCH WORK.
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED, TREE TRIMMINGS, AND EXCESS EXCAVATION WHICH IS TO BE WASTED, SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL ALSO BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE, AND SITE LOCATION. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOODPLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT AND A FLOODPLAIN DEVELOPMENT PERMIT FROM SEDGWICK COUNTY. ANY MATERIALS DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIALS BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS MAY REQUIRE ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED DISPOSAL LOCATION.

- EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT HE WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT, THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING AN INSPECTION OF THE SITE.
- ALL GRASSED AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPLANTED WITH GRASS AND FERTILIZED IN ACCORDANCE WITH THE SPECIFICATIONS FOR SUCH WORK. ALL COSTS FOR SEEDING AND FERTILIZING SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
- PROPERTIES WITHIN THE PROJECT LIMITS MAY HAVE UNDERGROUND SPRINKLER SYSTEMS IN PUBLIC RIGHT-OF-WAY WHICH CONFLICT WITH THE PROPOSED WORK. THE CONTRACTOR SHALL REMOVE SUCH IMPROVEMENTS SHOULD THEY NOT BE REMOVED BY THEIR OWNER PRIOR TO THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL SALVAGE ALL SPRINKLER HEADS AND/OR VALVES AND GIVE SUCH MATERIAL TO THEIR OWNER. PORTIONS OF UNDERGROUND SPRINKLER SYSTEMS NOT IN CONFLICT WITH THE PROPOSED WORK SHALL BE PROTECTED FROM DAMAGE AND SHALL REMAIN IN PLACE. ALL WORK IN CONNECTION WITH UNDERGROUND SPRINKLER SYSTEMS SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
- 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 HIS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATIONS AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR THE DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH THE PROPOSED CONSTRUCTION.
- WHERE INDICATED ON THE PLANS, THE CONTRACTOR SHALL COORDINATE REMOVING, RESETTING, OR TYING BACK UTILITY POLES WITH THE UTILITY COMPANY. THE CONTRACTOR MAY USE OSHA APPROVED SHORING TO PREVENT REMOVAL AND RESETTING POLES WHERE ADEQUATE SPACE IS AVAILABLE BETWEEN THE PROPOSED SANITARY SEWER AND THE EXISTING UTILITY POLES. ALL COSTS INCURRED FOR THIS WORK, INCLUDING ANY FEES CHARGED BY THE UTILITY COMPANY, SHALL BE PAID BY THE CONTRACTOR AND SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING AND RESTORATION".
- PAVEMENT AND OTHER TRAVELWAYS DAMAGED BY THE CONTRACTOR'S OPERATIONS, INCLUDING TRAFFIC FOR MATERIAL DELIVERY AND REMOVAL, OUTSIDE OF THE PAYMENT LIMITS FOR REMOVAL AND REPLACEMENT SHALL BE REPLACED OR REPAIRED IN KIND, BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH SEDGWICK COUNTY SANITARY SEWER STANDARD SPECIFICATIONS.



BENCH MARK LIST

- |  |   |
|--|---|
| BM #24 - CHISELED "o" in W WEST EDGE FOOTING BETWEEN NORTH AND SOUTHWEST COLUMNS OF BRICK STREET MARKER @ NORTHEAST CORNER OF LANCASTER DRIVE AND CENTRAL, BELLE TERRE 3RD ADDITION.<br>ELEV.= 1325.64 | BM #BR3 - CHISELED "o" in SOUTH WINGWALL OF CULVERT TO DRIVEWAY @ 553 BROOKHAVEN DRIVE, BROOKHAVEN ESTATES ADDITION.<br>ELEV.= 1319.22                              |
| BM #BR1 - CHISELED "o" in NORTH WINGWALL OF CULVERT TO DRIVEWAY @ 620 LANCASTER DRIVE, BROOKHAVEN ESTATES ADDITION.<br>ELEV.= 1327.67  | BM #BR4 - CHISELED "o" in TOP EAST END OF RCP NORTHEAST CORNER LANCASTER DRIVE AND PLYMOUTH, BROOKHAVEN ESTATES ADDITION.<br>ELEV.= 1327.50                         |
| BM #BR2 - CHISELED "o" in WEST WINGWALL OF CULVERT TO DRIVEWAY ALONG SHARON LANE TO HOUSE #630 BROOKHAVEN DRIVE, BROOKHAVEN ESTATES ADDITION.<br>ELEV.= 1319.22  | BM #BR5 - RAILROAD SPIKE IN NORTHEAST FACE OF POWER POLE NORTHEAST CORNER OF LOT 5, BLOCK 4, BROOKHAVEN ESTATES ADDITION.<br>ELEV.= 1330.35                         |
|  | BM #BR6 - FILED "V" CUT TOP OF STEEL COLLAR WEST END OF CIP CULVERT OF NORTH DRIVE TO HOUSE #649, 159TH STREET EAST, BROOKHAVEN ESTATES ADDITION.<br>ELEV.= 1334.30 |

October 31, 2000  
Brookhaven Estates Phase 1  
MH "As Built" State Plane Coordinates

Manhole No.	Northing	Easting
64-1-8	1689166.6875	1701819.6723
12-2-1	1689545.1885	1701828.1216
12-2-2	1689970.3617	1701816.4065
12-2-3	1690010.4210	1701795.1041
12-2-4	1690247.4358	1701791.2747
12-2-5	1690282.9833	1701811.7275
12-2-6	1690525.2569	1701808.2820

\*Kansas State Plane Coordinates  
South Zone, North American Datum 1983  
English units, U.S. Survey Foot definition

PAVEMENT REMOVAL AND REPLACEMENT DETAIL

RECORD DRAWING

DSNR: MDK OPER: ILS SCALE: 1"=150.00  
C:\1998\98201\SSKEYMAP\_06-06-2000 11:38:58 am

Revision	By	Date

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES  
DAVID C. SPEARS, P.E.  
DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

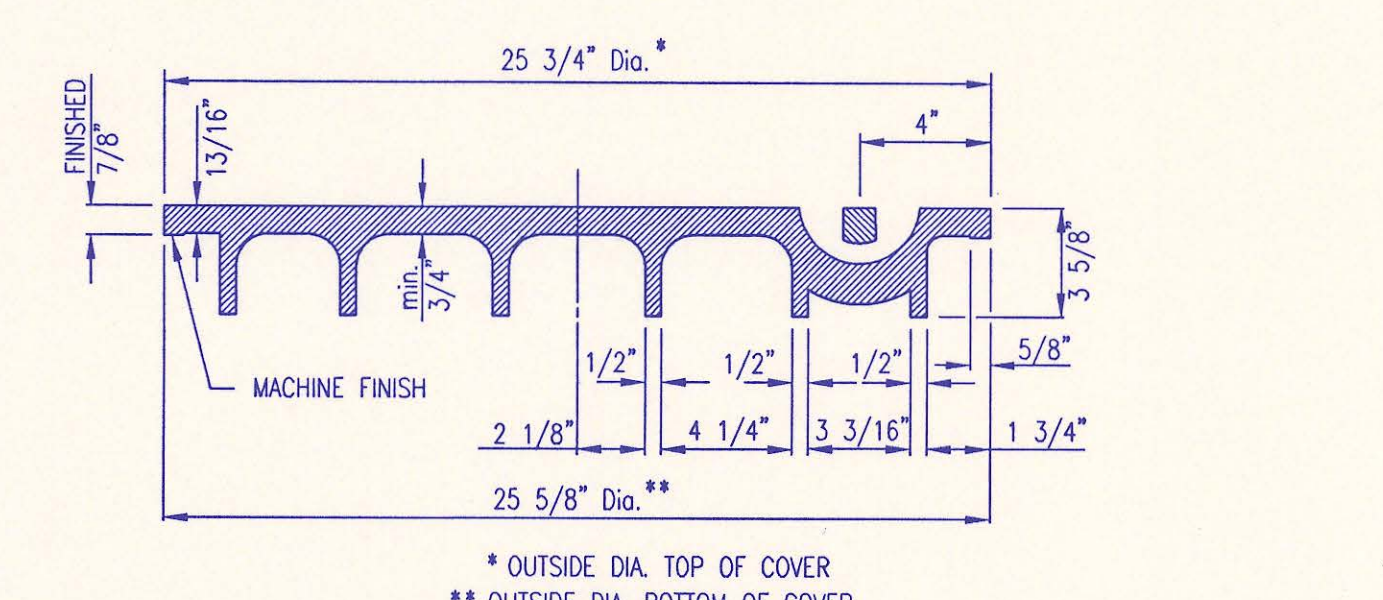
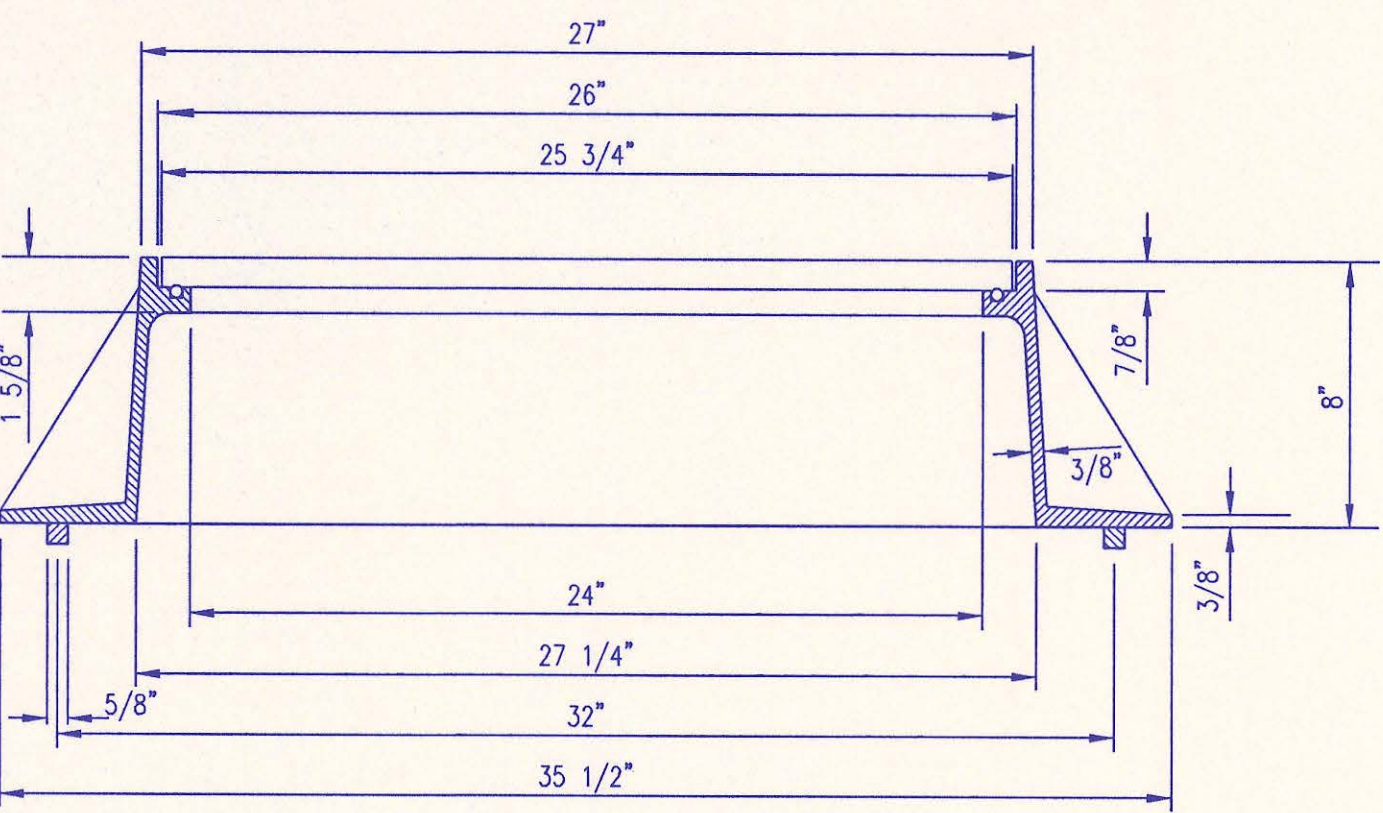
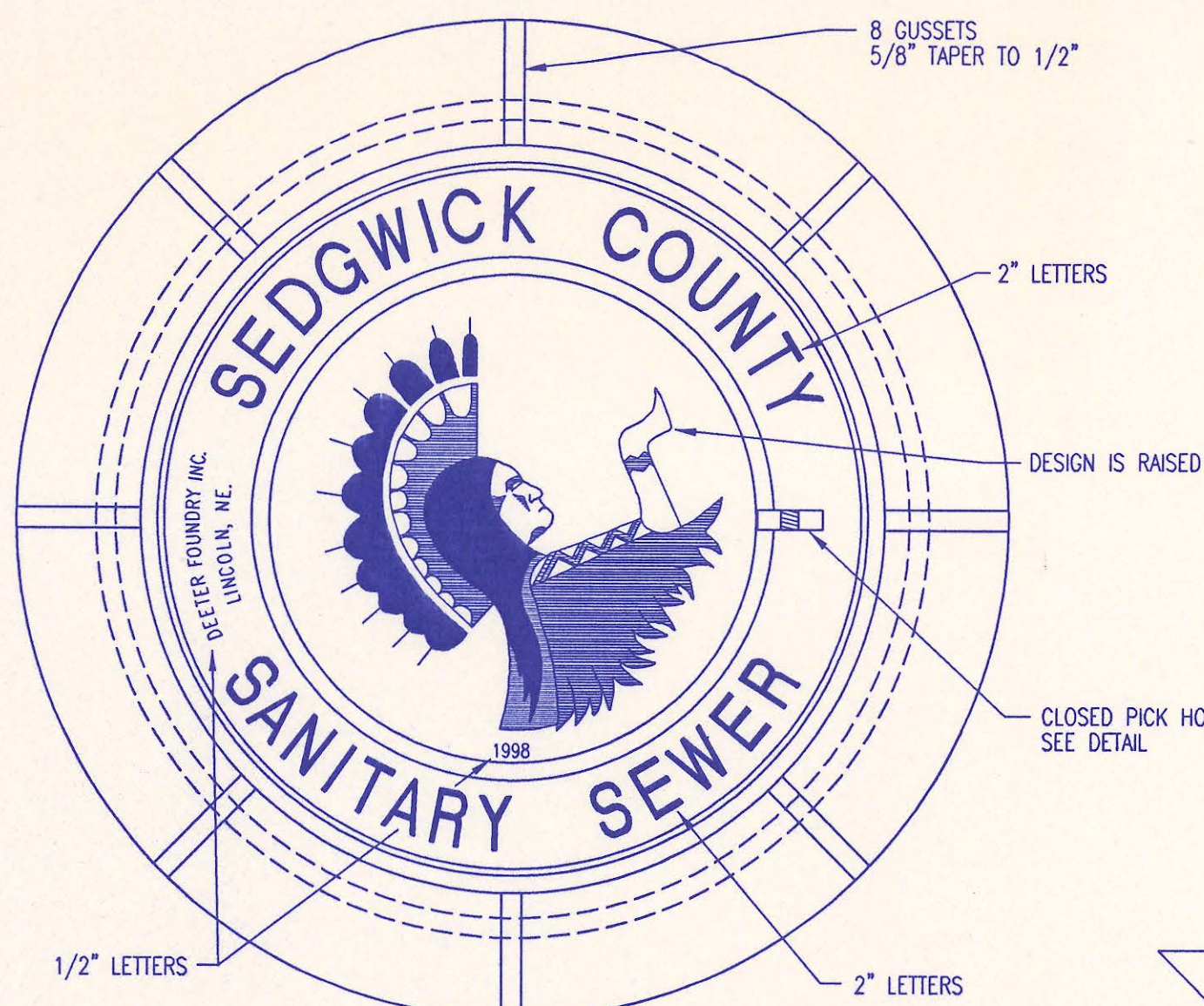
**KEY MAP**

SANITARY SEWER IMPROVEMENTS-PHASE 1  
BROOKHAVEN ESTATES

**PROFESSIONAL ENGINEERING CONSULTANTS, P.A.**  
ENGINEERS  
WICHITA, KANSAS

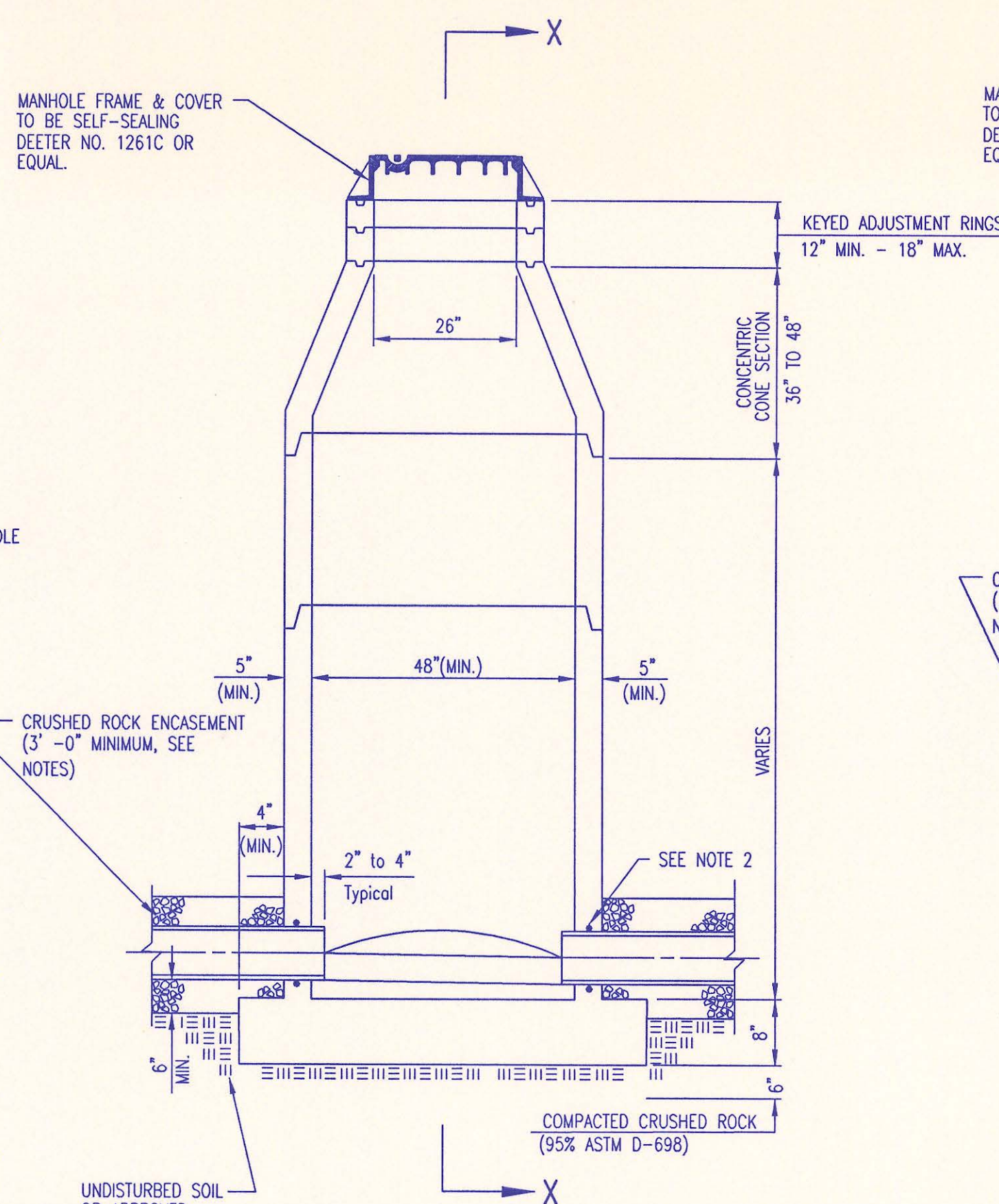
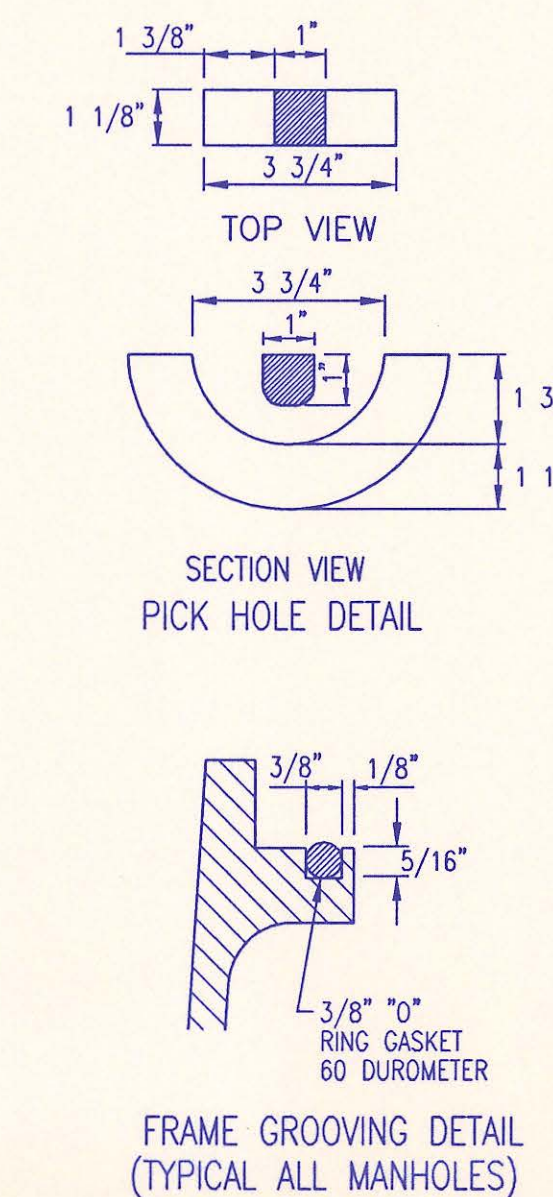
Designed by MDK	Job No. 34-98201-024	Sht. 2 of 9
Drawn by DEG	Date April 1998	



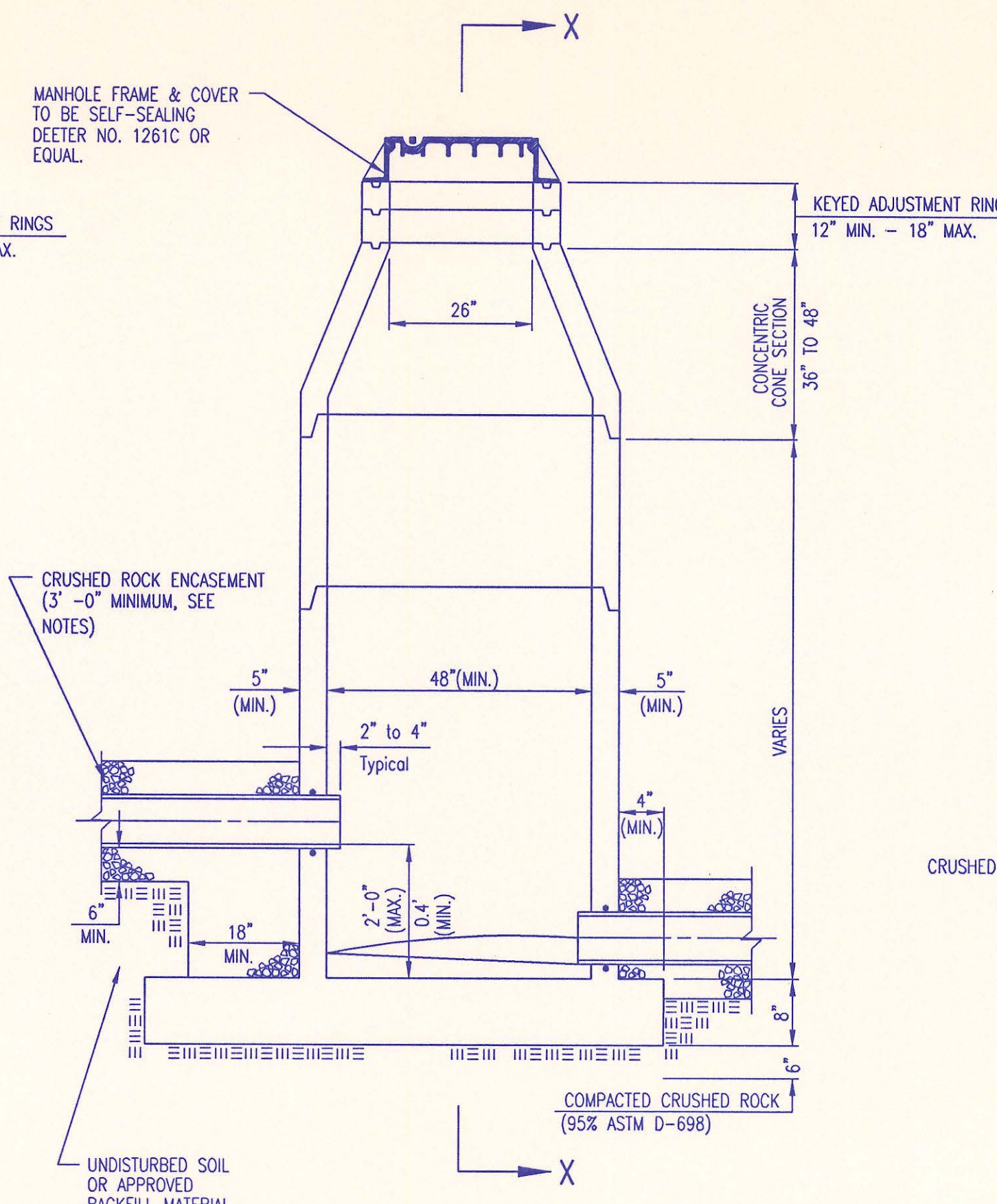


**MANHOLE FRAME AND COVER**  
(TOTAL WEIGHT = 325 LBS.)

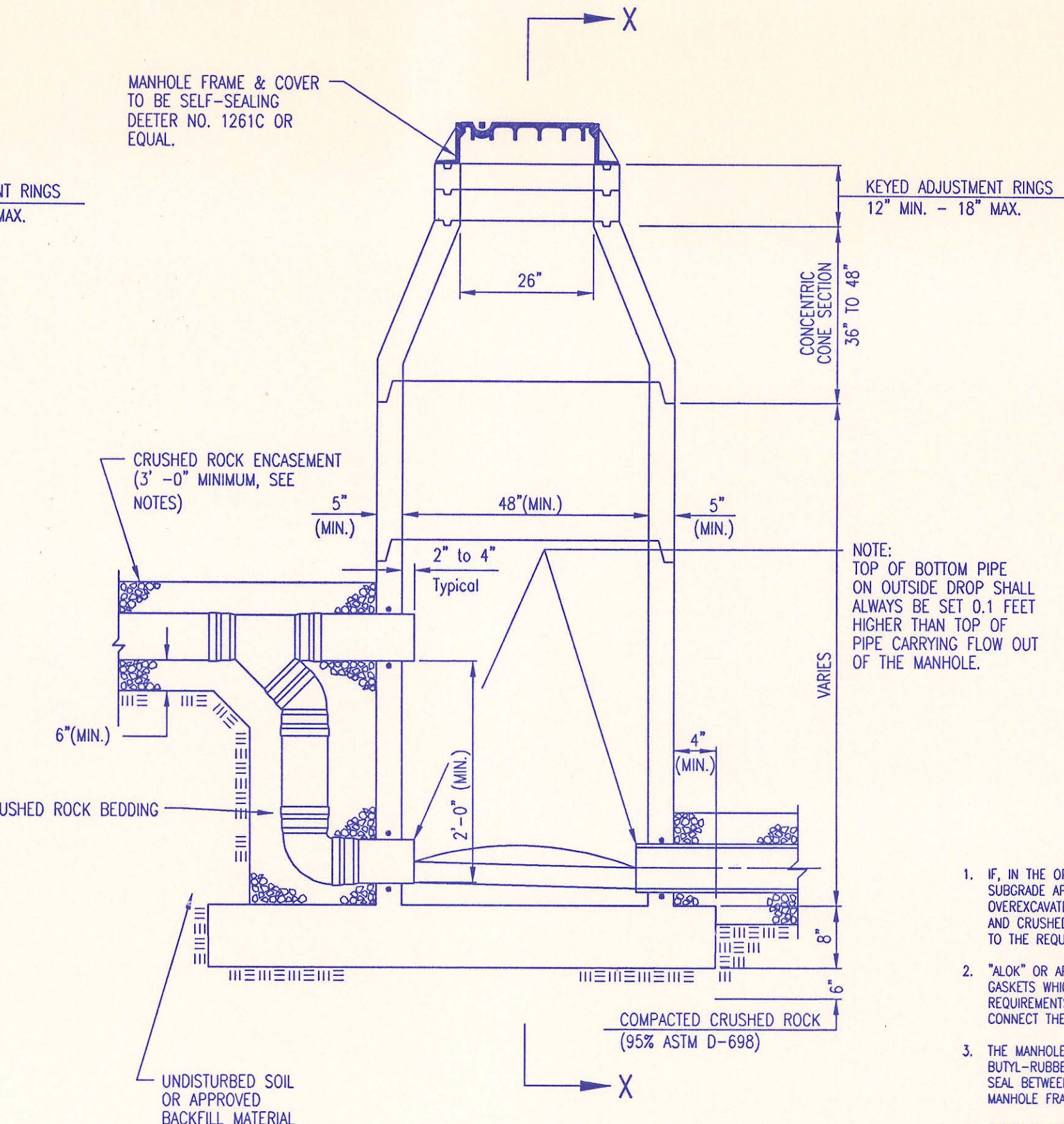
- MANHOLE FRAME AND COVER NOTES**
- CAST IRON MANHOLE FRAME AND COVER SHALL CONFORM TO ASTM A-48, CLASS 350, OR BETTER.
  - CASTINGS ARE TO BE MANUFACTURED TRUE TO PATTERN AND WITH SATISFACTORY FIT OF COMPONENT PARTS. CASTINGS SHALL BE FREE OF DEFECTS AND ALL BURRS SHALL BE GROUND SMOOTH. DIMENSIONS AS DETAILED ON PLAN SHALL NOT DEVIATE BY 1/16" PER FOOT.
  - NO OTHER LETTERING OR MARKINGS OTHER THAN THOSE DETAILED ON PLAN WILL BE PERMITTED ON CASTINGS.
  - CASTINGS MUST BE DOMESTICALLY MANUFACTURED IN THE UNITED STATES OF AMERICA.
  - THE FRAMES AND COVERS SHALL BE FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES SO FITTING PARTS WILL NOT RATTLE OR ROCK UNDER TRAFFIC.
  - MANHOLE CASTINGS SHALL BE SELF-SEALING DEETER FOUNDRY INC. NO. 1261C OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED IN THE SPECIAL CONDITIONS. (MINIMUM WT. = 325 LBS.) ALL MANHOLE CASTINGS SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS MANHOLE TYPES.
  - THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. THE ENGINEER SHALL RETAIN THE RIGHT TO REJECT CASTINGS NOT CONFORMING TO THE SPECIFICATIONS OR THE APPROVED SHOP DRAWINGS.
  - THE MANHOLE FRAME SHALL BE FURNISHED WITH AN APPROVED CONTINUOUS "O" RING GASKET GROOVED INTO THE BEARING SURFACE OF THE MANHOLE FRAME (PER DETAIL). THE "O" RING GASKET SHALL BE FACTORY INSTALLED IN THE MANHOLE FRAME WITH 100% SILICON SEALANT-DOW CORNING OR EQUAL.



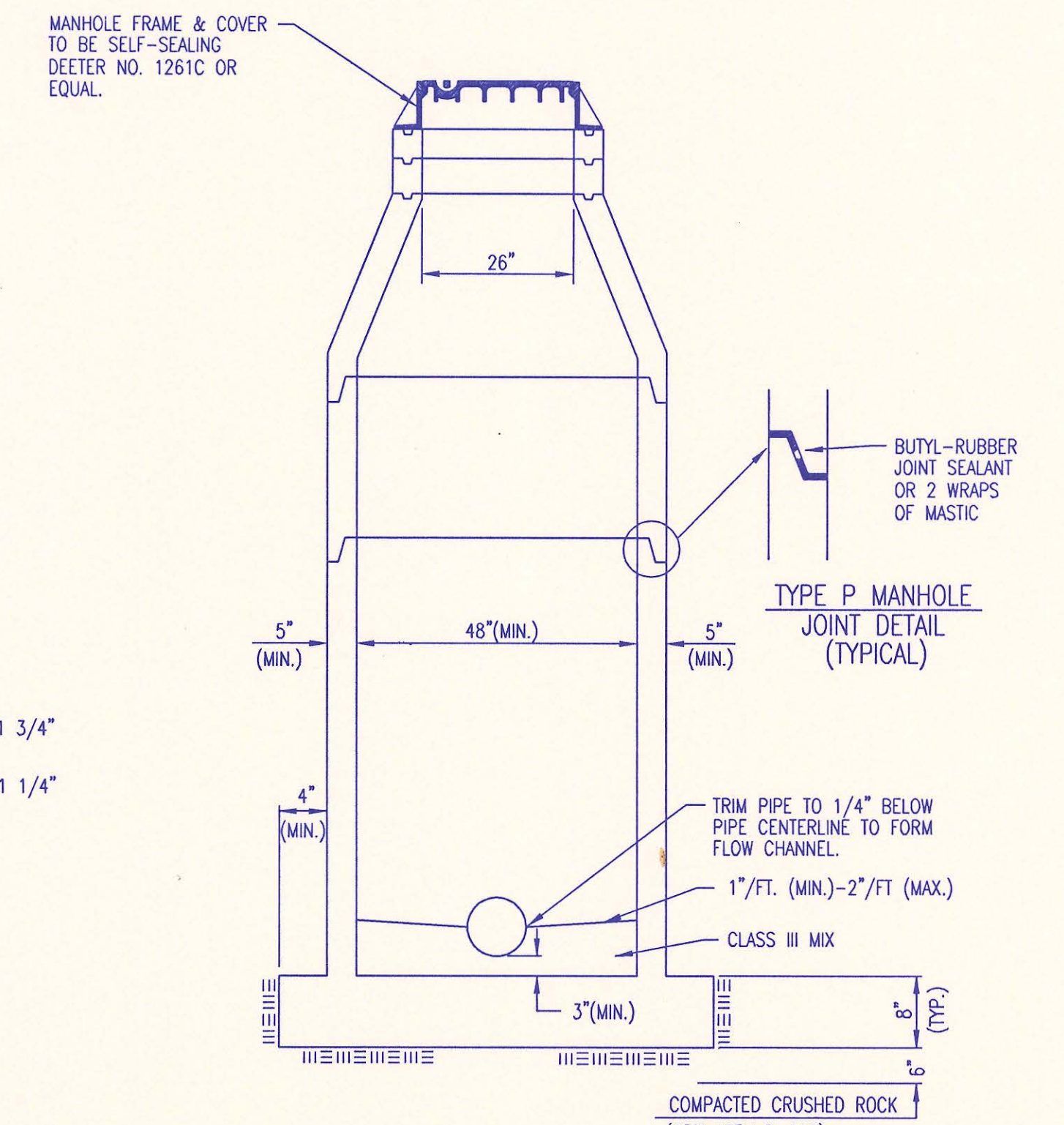
**PRECAST STANDARD MANHOLE TYPE "A"**



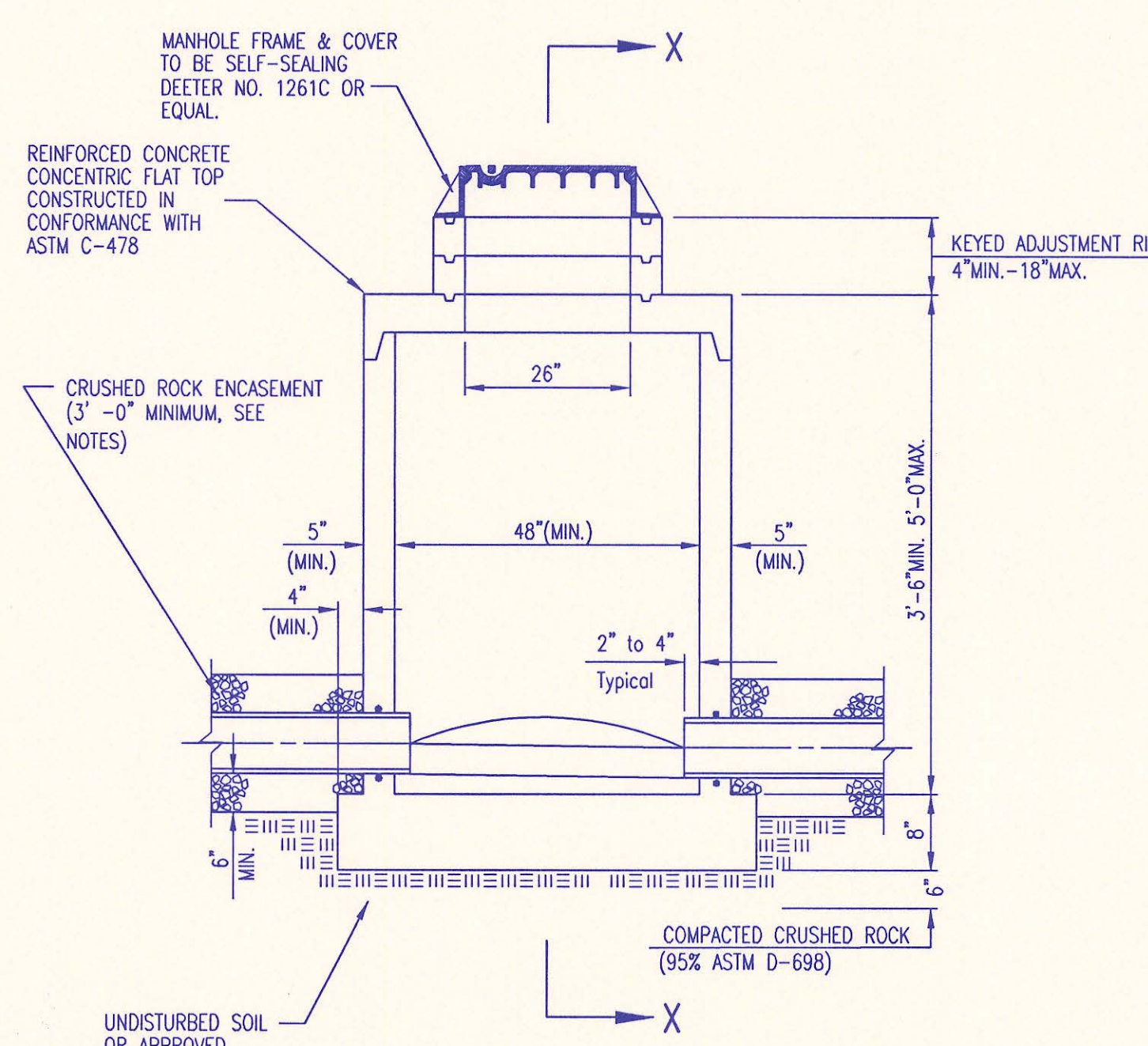
**PRECAST INSIDE DROP MANHOLE TYPE "B"**



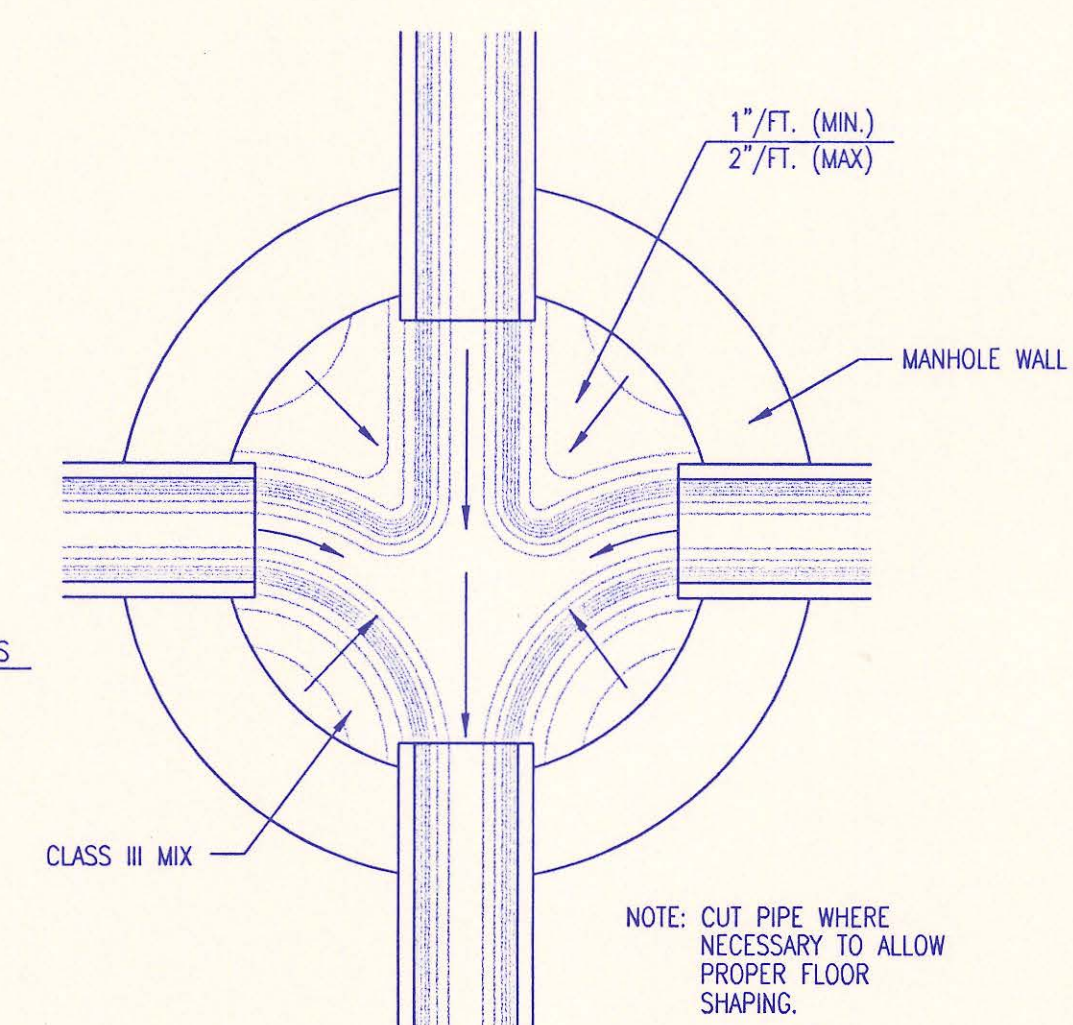
**PRECAST OUTSIDE DROP MANHOLE TYPE "C"**



**SECTION X (TYPICAL)**



**PRECAST SHALLOW MANHOLE TYPE "D"**



**TYPICAL MANHOLE FLOOR SHAPING**

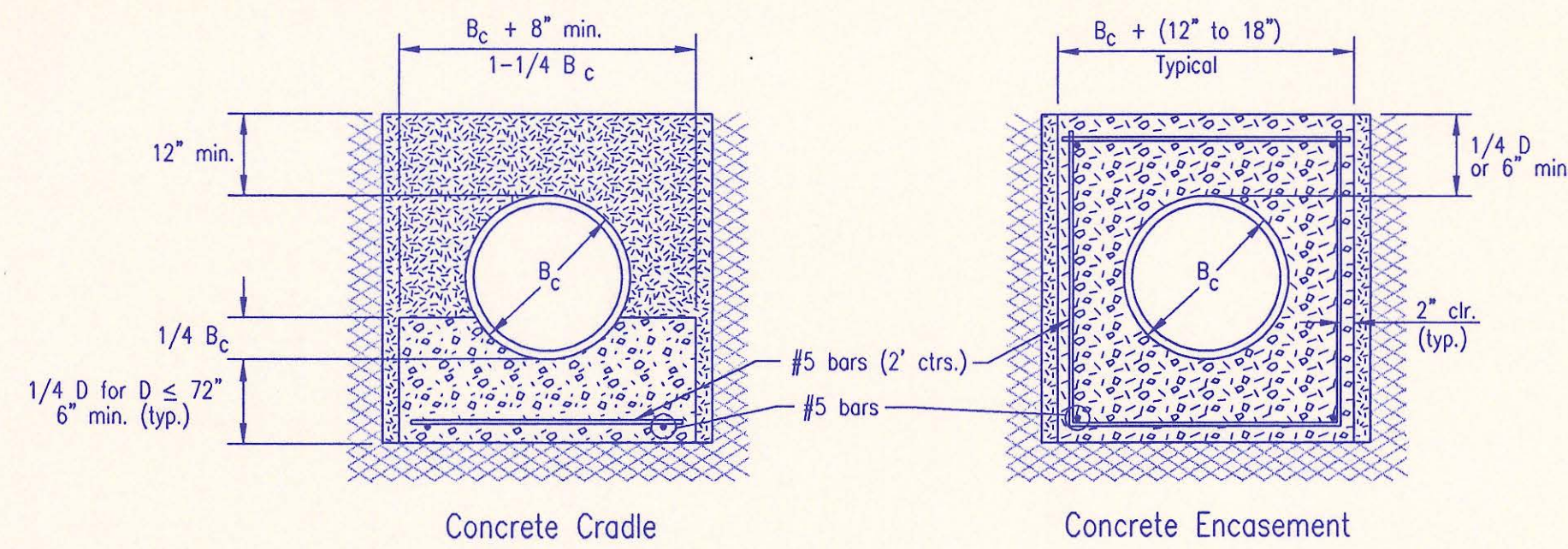
- PRECAST MANHOLE NOTES**
- IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL OVEREXCAVATE TO A SUITABLE SUBGRADE CONDITION AND CRUSHED ROCK SHALL BE PLACED AND COMPACTED TO THE REQUIRED GRADE.
  - "A-LOK" OR APPROVED EQUAL FLEXIBLE WATER-STOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM C-923 SHALL BE INSTALLED TO CONNECT THE SEWER TO THE MANHOLE WALL.
  - THE MANHOLE FRAME SHALL BE SEATED ON AN APPROVED BUTYL-RUBBER OR MASTIC SEALANT TO PROVIDE WATER-TIGHT SEAL BETWEEN THE MANHOLE ADJUSTMENT RING AND THE MANHOLE FRAME.
  - GASKETED PIPE CAPS SHALL BE PROVIDED BY THE PIPE SUPPLIER. GLUED OR CEMENTED CAPS WILL NOT BE ACCEPTED.
  - ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
  - 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.
  - MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5" INSIDE DIAMETER (MIN.).
  - INSIDE DIAMETER OF FIVE-FOOT DIAMETER PRECAST MANHOLES SHALL REMAIN CONSTANT TO THE LOCATION OF THE REDUCING FLAT TOP WHICH CONNECTS THE FOUR-FOOT DIAMETER CONE SECTION TO THE FIVE-FOOT DIAMETER MANHOLE BARREL.
  - MANHOLES SHALL BE SUPPLIED WITH PRECAST BASE SECTIONS UNLESS OTHERWISE APPROVED. ALL PRECAST CONCRETE MANHOLE SECTIONS AND BASES SHALL CONFORM TO THE LATEST REVISION OF ASTM C478 AS MODIFIED BY THE SPECIFICATIONS. ALL MANHOLES WITH PRECAST BASES SHALL INCLUDE A-LOCK GASKETS FOR ALL PIPE PENETRATIONS INTO THE MANHOLES.
  - WHERE MANHOLE STUBS ARE SHOWN ON THE PLANS, THE STUB SHALL EXTEND AT LEAST 5 FEET FROM THE INSIDE WALL OF THE MANHOLE. 4" STUBS SHALL BE SET AT 2.0% GRADE. 6" STUBS SHALL BE SET AT 1.0% GRADE.
  - MANHOLE SECTIONS SHALL BE SUPPLIED WITH RECESSED LIFTING EYES. LIFTING EYE RECESSES SHALL BE GROUDED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.
  - WHERE A-LOCK GASKETS ARE REQUIRED, THE CONTRACTOR SHALL UTILIZE A CRUSHED ROCK BEDDING MATERIAL. THE ROCK BEDDING MATERIAL SHALL EXTEND TO 3 FEET FROM THE MANHOLE WALL, AND SHALL BE COMPACTED IN PLACE FROM THE BOTTOM OF THE DISTURBED AREA TO 1 FOOT ABOVE THE TOP OF PIPE. THE CRUSHED ROCK WHICH IS PLACED BELOW THE PIPE BEDDING ZONE SHALL BE COMPACTED TO 95% ASTM D-698 (MIN.).
  - WHERE MANHOLES ARE TO BE BUILT OVER EXISTING SANITARY SEWER LINES, SEWER PIPES SHALL BE SUPPORTED WITH CLASS III CONCRETE ENCASEMENT A MINIMUM OF 3 FEET OUTSIDE THE MANHOLE WALL.
  - CRUSHED ROCK SHALL MEET THE REQUIREMENTS FOR GRANULAR BEDDING MATERIAL, AS OUTLINED IN THE SPECIFICATIONS.

**RECORD DRAWING**

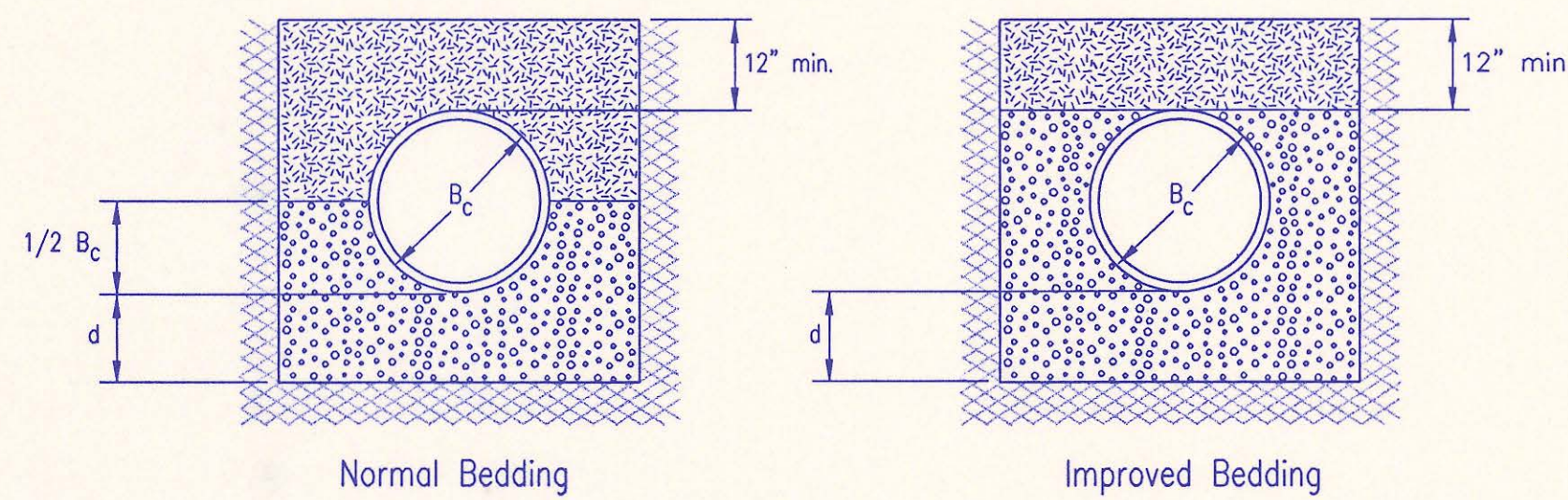
**PRECAST MANHOLE DETAILS**  
ADOPTED AS STANDARD DESIGN JANUARY 1998  
BY  
SEDCWICK COUNTY PUBLIC WORKS  
DAVID C. SPEARS, P.E. DIRECTOR, PUBLIC WORKS/COUNTY ENGINEER

DSNR: MDK OPER: ILS SCALE: 1=1.00  
01/1998 08201\SEDPREMH 06-06-2000 11:11:59 am

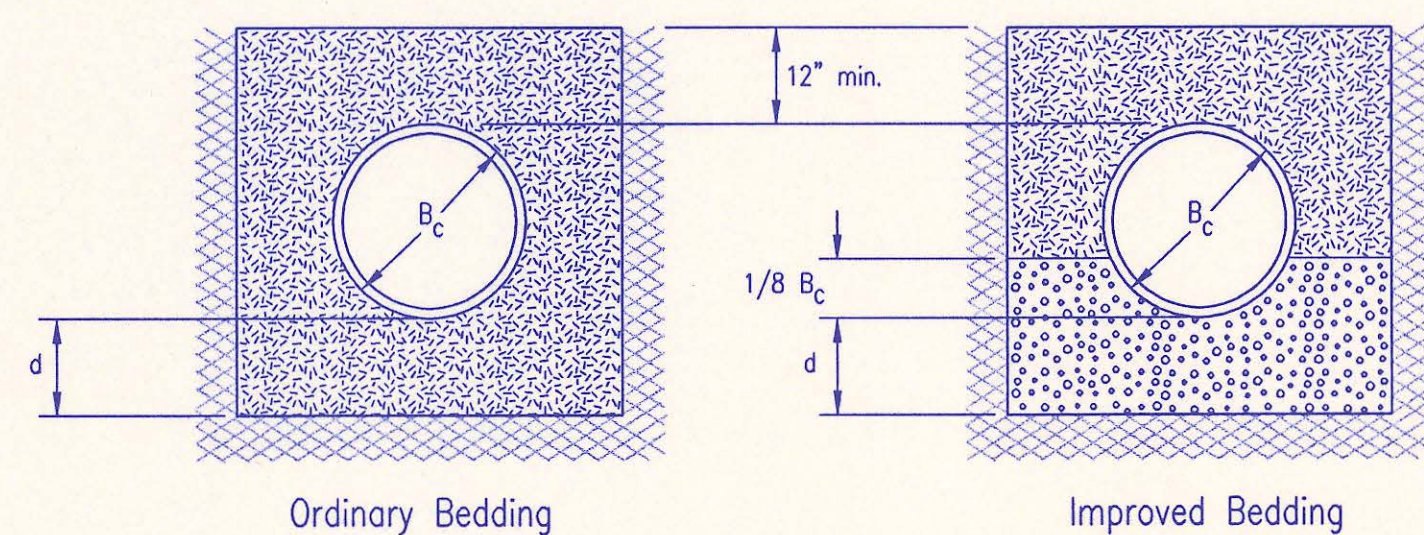
PLAN	CHECKED	CHECKED
BY		
DATE		



CLASS A



CLASS B



CLASS C

PIPE ZONE BACKFILLING

- $B_c$  = Outside Pipe Diameter
- H = Backfill from Top of Pipe to Existing Ground
- D = Inside Pipe Diameter
- d = Depth of Bedding Material Below Pipe
- [Symbol] = Granular Bedding Material or Sand-Gravel Bedding
- [Symbol] = Compacted Embedment
- [Symbol] = Concrete

Depth of Bedding Material Below Pipe		
D	d(min) Soil	d(min) Rock
27" & smaller	4"	6"
30" to 60"	5"	9"
66" & larger	6"	12"

Granular Bedding Material shall be an approved material consisting of durable crushed rock conforming with the requirements of the latest revision of ASTM C-33 Size No. 67 (3/4" to No. 4); to be placed in not more than 6" layers and compacted by slicing with a shovel or vibrating. Soundness, abrasion, and absorption limits shall be as required for coarse aggregates in Section 03010-Concrete Work in the specifications.

Sand-Gravel Bedding Material - sand-gravel mix meeting Type UD-1 of the 1990 Kansas Standard Specifications for State Road and Bridge Construction.

Compacted Embedment shall be an approved sand material free from debris, organic material, and stones with 100% passing the 3/4" sieve to be placed in uniform layers not more than 6" thick and compacted to 95 percent maximum density as determined by ASTM D698. Granular Bedding Material may be substituted for all or part of Compacted Embedment Materials.

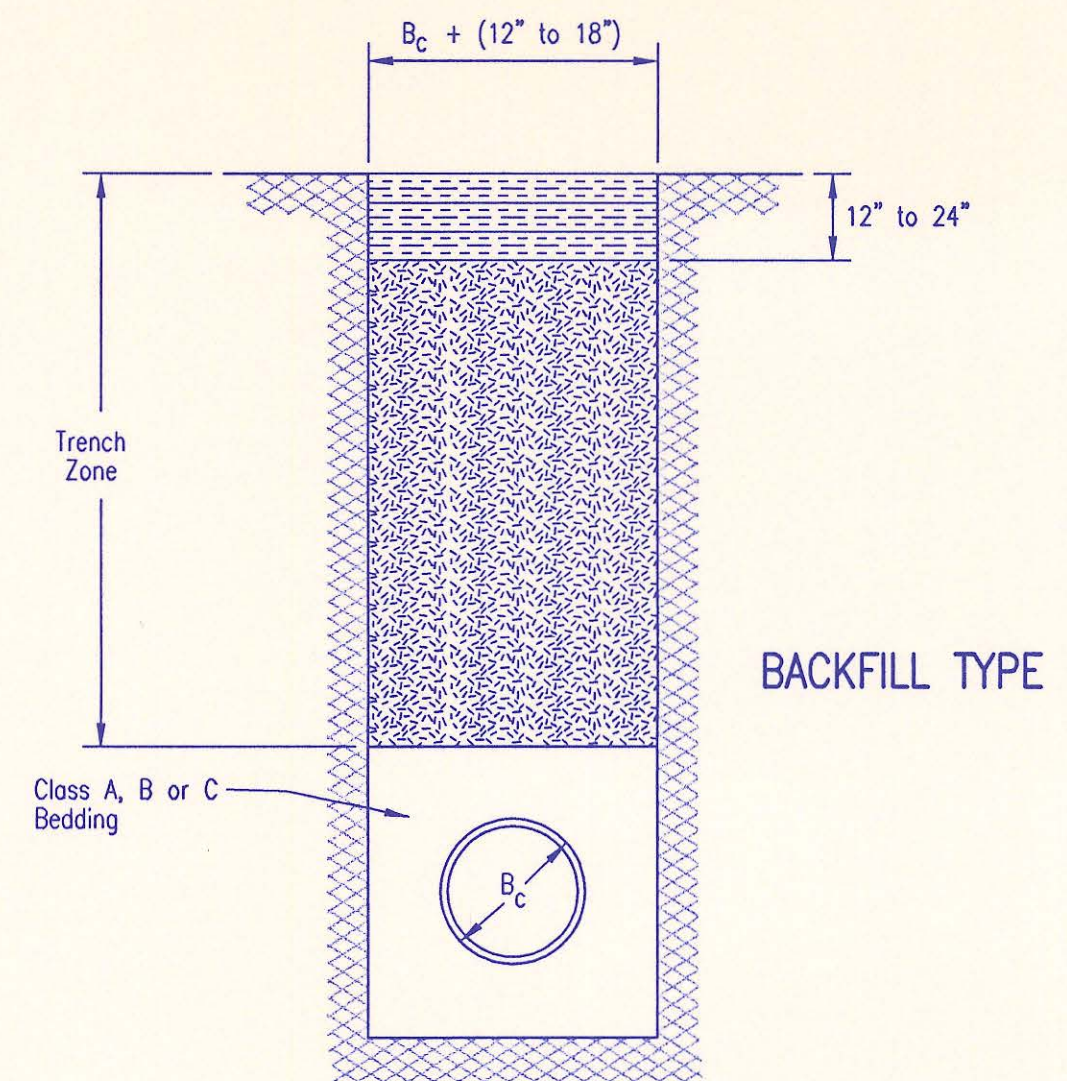
Class A "Concrete Cradle" and/or Class A "Concrete Encasement" is not required unless specified on the plans. However, where unexpected trench conditions exist or improper trenching is performed Class A Bedding may be required as determined by the Engineer.

Class B Bedding shall be used for all flexible pipe.

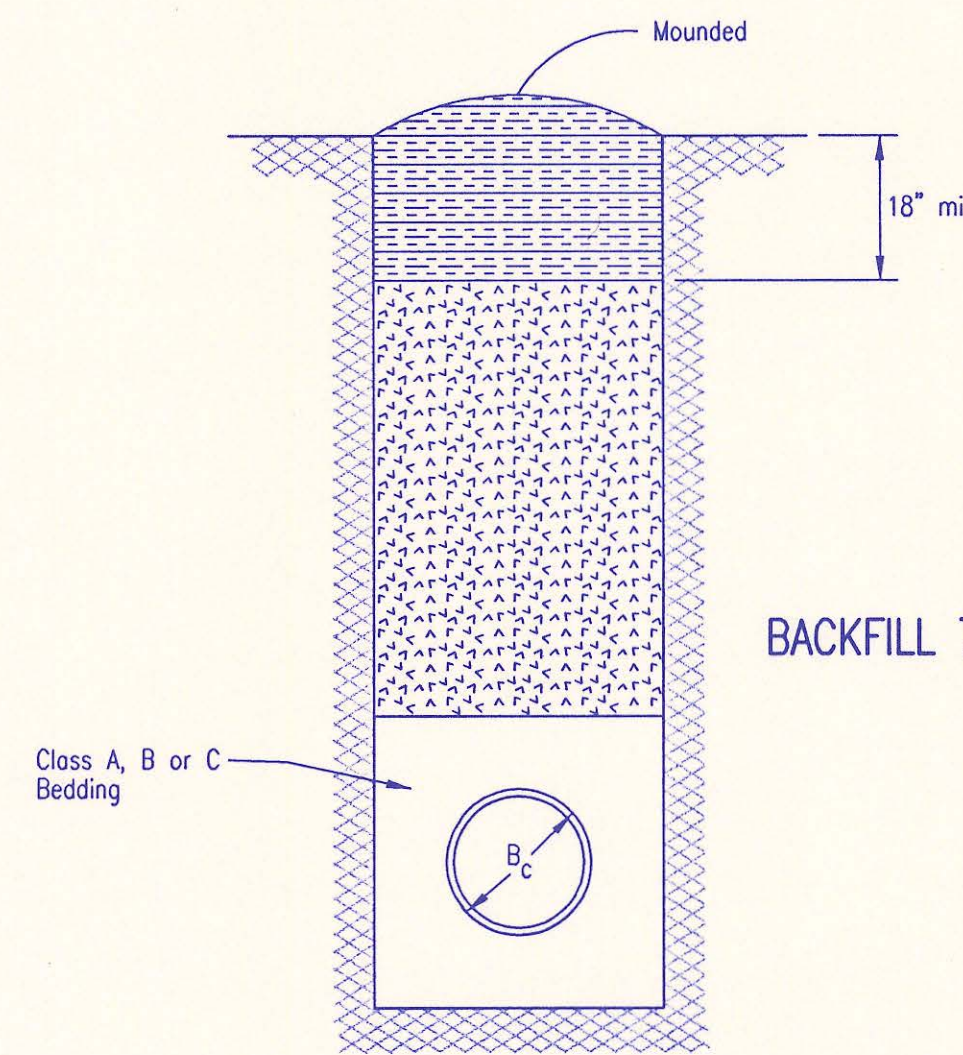
- a. Class B Normal Bedding shall be used for PVC Pipe unless wet conditions are encountered.
- b. Class B Improved Bedding shall be used for other flexible pipe, and for PVC pipe in wet conditions.

Class C Bedding shall be used for all rigid pipe.

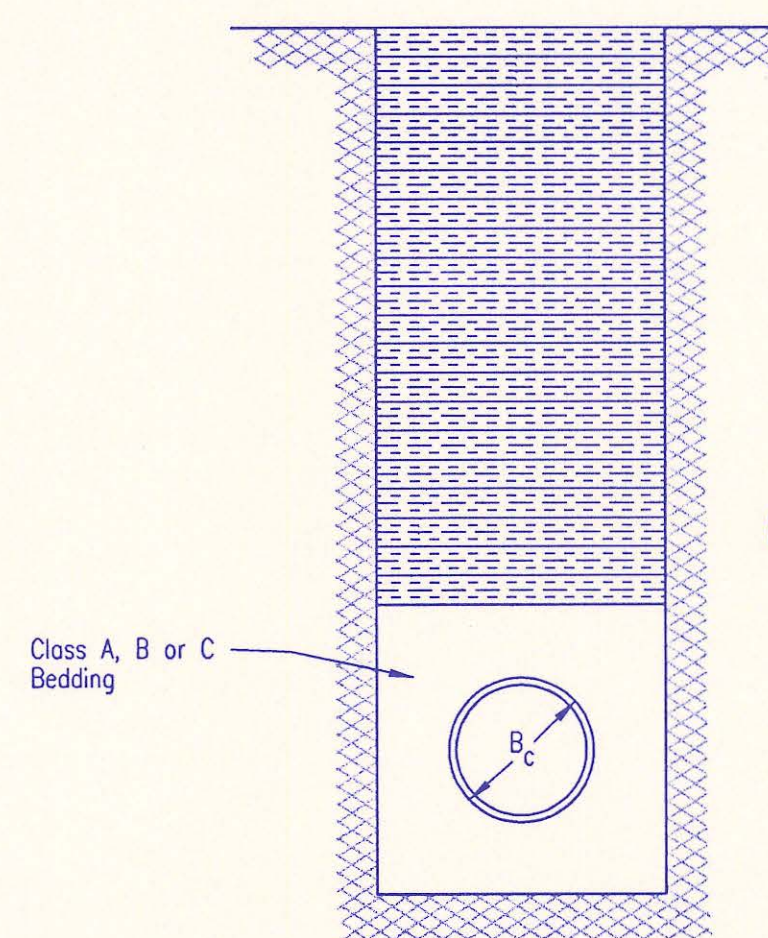
- a. Class C Ordinary Bedding shall be used for all rigid pipe unless wet conditions are encountered.
- b. Class C Improved Bedding shall be used for wet conditions existing in the trench, as directed by the Engineer, at no additional cost to the Owner. The dimensions shall be equal to that required for "rock" excavation (see specifications).



BACKFILL TYPE I



BACKFILL TYPE II



BACKFILL TYPE III

- $B_c$  = Outside Pipe Diameter
- [Symbol] = Compacted Granular Backfill
- [Symbol] = Uncompacted Earth Backfill
- [Symbol] = Compacted Earth Backfill

Compacted Granular Backfill material shall be an approved sand material free from debris, organic material and stones with 100% passing the 3/4" sieve and not more than 15% passing a No. 200 sieve; to be jetted and mechanically vibrated into place and compacted to 95% density as determined by ASTM D698.

Uncompacted Earth Backfill material may be natural soil free from large clods or stones, brush, roots more than 2 inches in diameter, debris, and junk. Flooding with water shall be provided as directed by the Engineer.

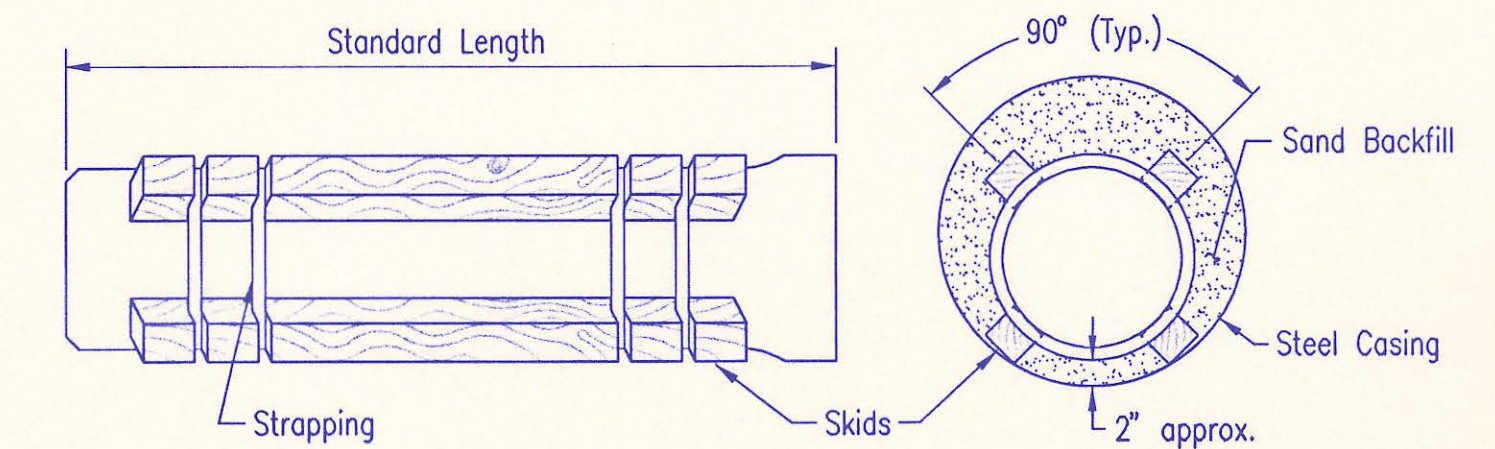
Compacted Earth Backfill shall consist of material existing prior to trenching or selected material as directed by the Engineer, and shall be compacted to 90% density as determined by ASTM D698.

Backfill: Backfill material and compaction requirements shall conform to either Type I, Type II or Type III as specified in the plans. One years maintenance will be required on all backfill.

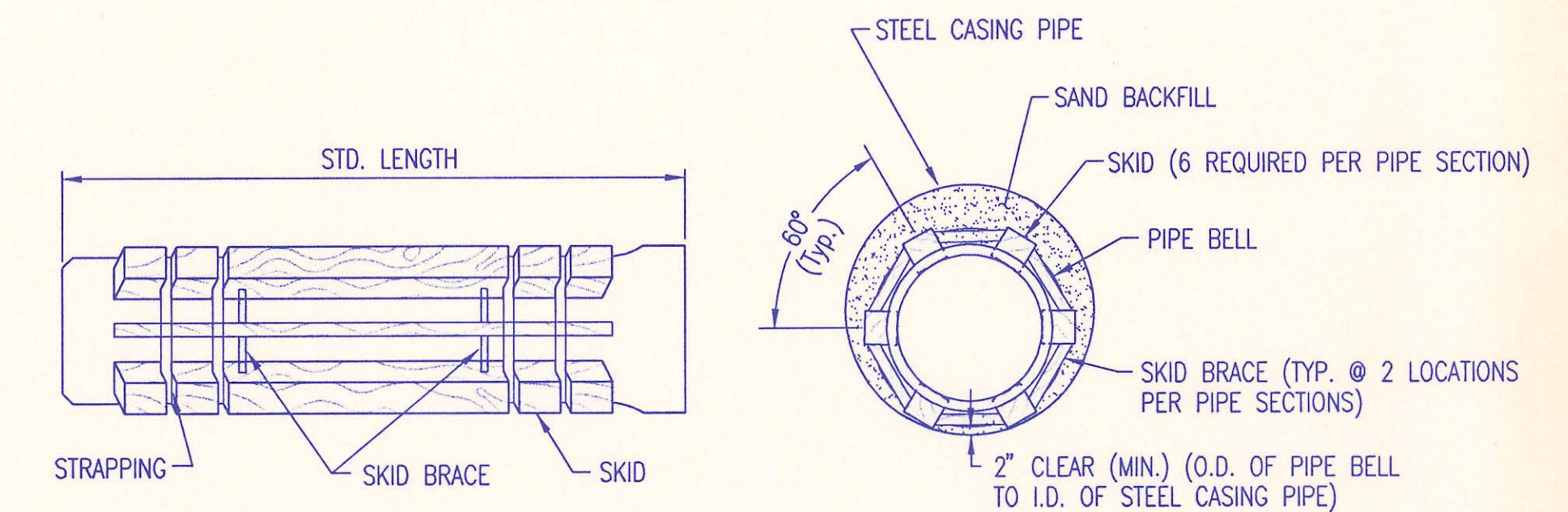
Backfilling Through Rock: Backfilling through rock shall be performed as specified in the paragraph Backfill above, except that the Pipe Zone is increased to provide eighteen (18) inches of cover over the pipe. When approved by the Engineer the remainder of the backfill may be excavated rock provided the excavated rock has been broken up so that earth and rock will thoroughly mix and not result in voids around the larger pieces of rock. Any excess rock remaining after the trench has been backfilled shall be removed or wasted as directed by the Engineer.

Backfilling Under Pavement: Backfilling under existing or proposed pavement shall be performed as Backfill Type I to a level of two (2) feet from the bottom of the pavement. The remainder of the trench shall be backfilled with selected material, sufficiently damp to be properly compacted in layers not exceeding six (6) inches in depth, compaction shall be performed with mechanical tampers and continued until a relative density of 100 percent of standard density, in conformance with ASTM D698 is attained.

Backfilling Under Gravel Streets: Where the trench crosses or is in existing gravel surfaced streets, the backfill shall be compacted as provided in the paragraph "Backfilling Under Pavement".



STEEL ENCASEMENT DETAIL  
SEWER MAIN 12" AND UNDER

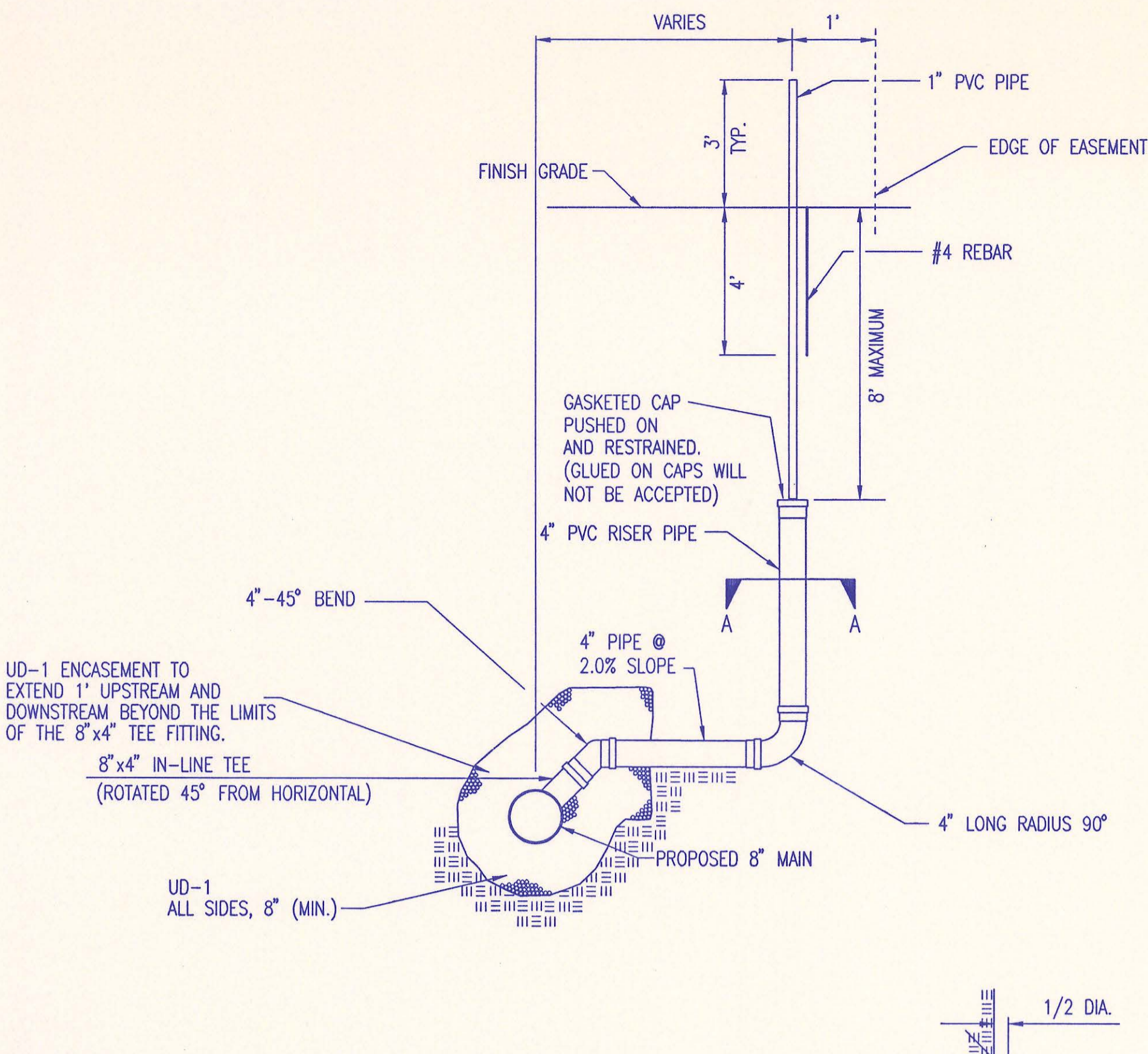


STEEL ENCASEMENT DETAIL  
SEWER MAIN OVER 12"

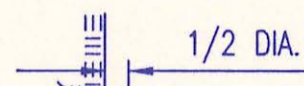
RECORD DRAWING

TRENCH AND BACKFILL DETAILS

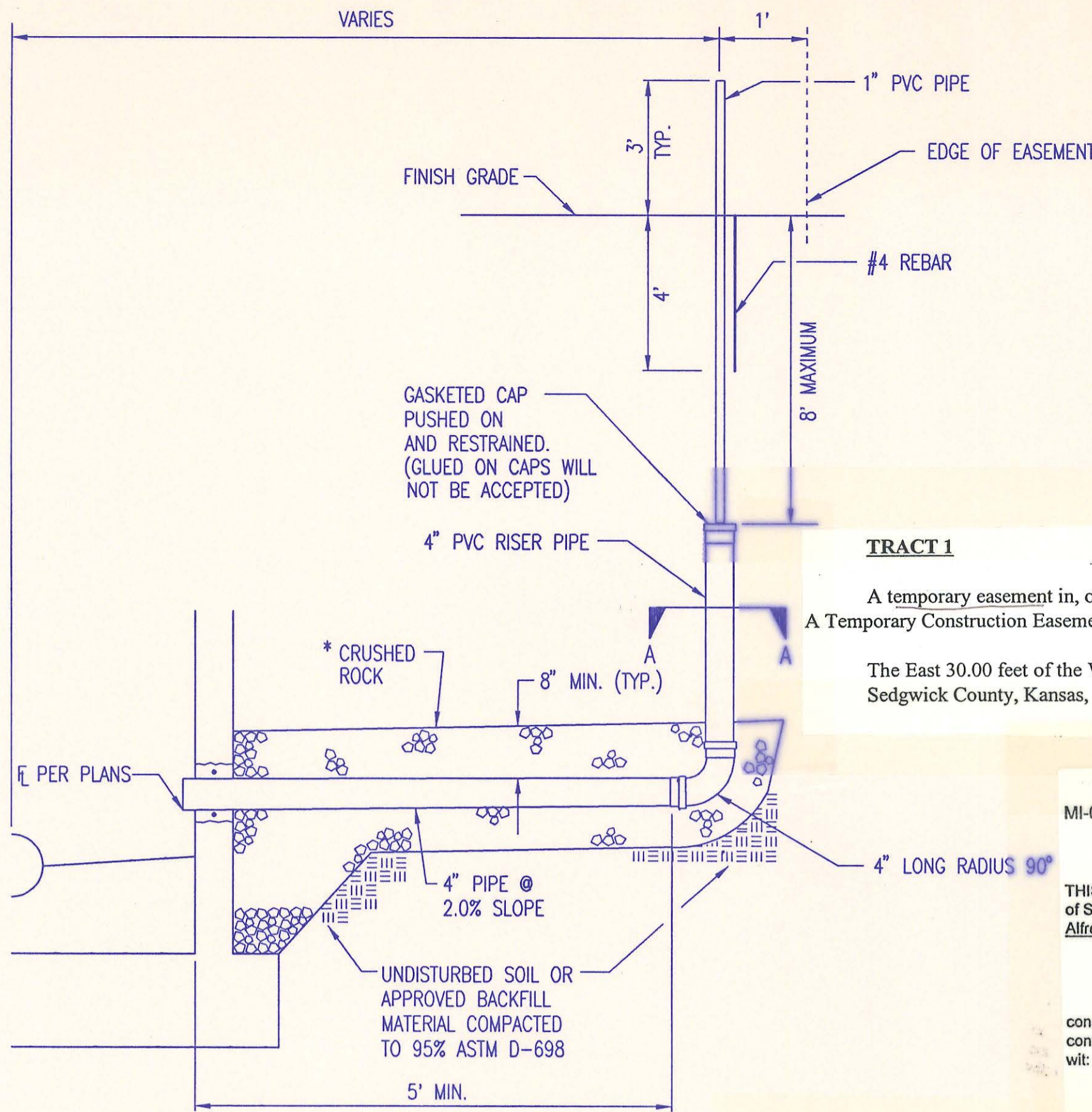
ADOPTED AS STANDARD DESIGN JANUARY 1998  
BY  
SEDGWICK COUNTY PUBLIC WORKS  
DAVID C. SPEARS, P.E. DIRECTOR, PUBLIC WORKS/COUNTY ENGINEER



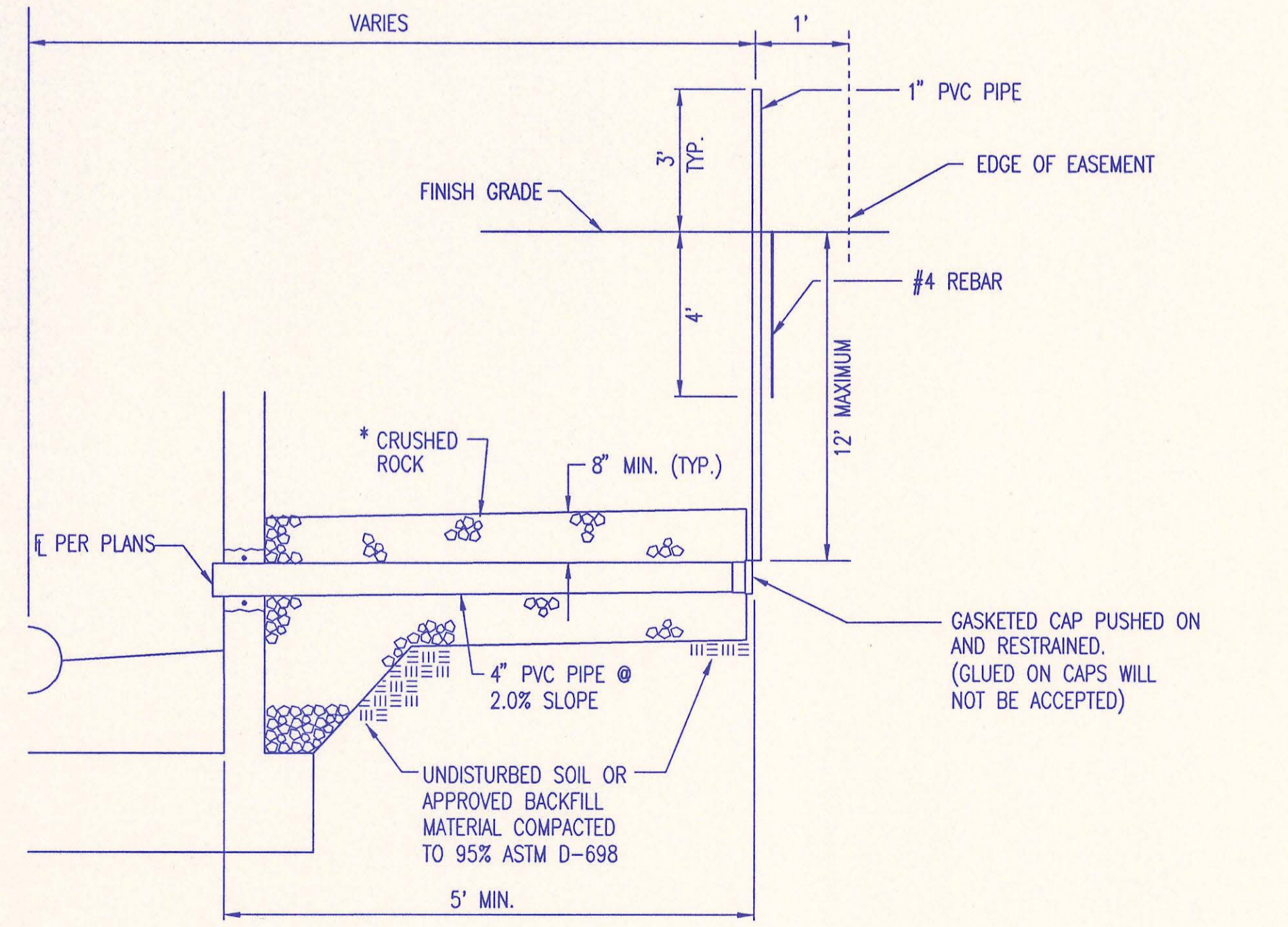
TEE SERVICE CONNECTION



SECTION A-A



MH SERVICE CONNECTION



4" STUB

\* CRUSHED ROCK SHALL MEET THE REQUIREMENTS FOR GRANULAR BEDDING MATERIAL, AS OUTLINED IN THE SPECIFICATIONS.

SERVICE CONNECTIONS ARE TO BE INSTALLED WHERE PROPOSED SEWER MAIN IS 12' OR MORE BELOW PROPOSED GROUND OR AS SHOWN IN THE PLANS.

SEWER SERVICE TABLE														
LOCATION				FOR INFORMATION ONLY				RECORD INFORMATION (TO BE COMPLETED BY PROJECT INSPECTOR)						
NO.	TYPE	LOT NO.	BLOCK NO.	LATERAL NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE	Depth	DISTANCE FROM NEAREST MANHOLE		UPSTREAM		DOWNSTREAM		NO.
1	TEE SERVICE CONNECTION	4	3	1	3+65/LL	25'28"	6'	363'	FM MH 12-2-1	15'	FM MH 12-2-1			1
2	TEE SERVICE CONNECTION	5	3	1	4+23/LE	4+13 25'28"	7'	35'	FM MH 12-2-1	301'	FM MH 12-2-2			2
3	TEE SERVICE CONNECTION	6	3	1	4+28/RE	4+03 5'9"	7'	113'	FM MH 12-2-1	318'	FM MH 12-2-2			3
4	TEE SERVICE CONNECTION	1	4	1	6+06/LE	6+40 2'11"	7.5'	262'	FM MH 12-2-1	164'	FM MH 12-2-2			4
5	TEE SERVICE CONNECTION	2	4	1	6+11/RE	6+50 8'12"	7.5'	272'	FM MH 12-2-1	154'	FM MH 12-2-2			5
6	TEE SERVICE CONNECTION	3	4	1	7+28/RE	7+83.24 8'13"	7'	405'	FM MH 12-2-1	21'	FM MH 12-2-2			6
7	TEE SERVICE CONNECTION	4	4	1	7+33/LE	7+19.24 2'11"	6'	341'	FM MH 12-2-1	65'	FM MH 12-2-2			7
8	TEE SERVICE CONNECTION	6	4	1	8+25/RE	8+25.41 5'14"	5.5'	22'	FM MH 12-2-2	23'	FM MH 12-2-3			8
9	TEE SERVICE CONNECTION	1	7	1	10+35/LE	10+38.12 8.542'	7'	180'	FM MH 12-2-3	48'	FM MH 12-2-4			9
10	TEE SERVICE CONNECTION	2	7	1	10+40/RE	10+20.75 1.548'	6'	180'	FM MH 12-2-3	57'	FM MH 12-2-4			10
11	TEE SERVICE CONNECTION	3	7	1	11+63/RE	11+85.36 0'11"	7'	58'	FM MH 12-2-3	184'	FM MH 12-2-4			11
12	TEE SERVICE CONNECTION	4	7	1	11+68/LE	11+33.36 2'03"	7'	116'	FM MH 12-2-3	126'	FM MH 12-2-4			12
13	TEE SERVICE CONNECTION	5	7	1	12+84/LE	12+59.72 0'32"	7'	120'	FM MH 12-2-3	180'	FM MH 12-2-4			13
14	TEE SERVICE CONNECTION	6	7	1	12+89/RE	12+80.58 0'41"	7'	153'	FM MH 12-2-3	80'	FM MH 12-2-4			14

**TRACT 1**  
A temporary easement in, over, across and upon the following-described premises, to wit:  
A Temporary Construction Easement described as follows:  
The East 30.00 feet of the West 53.00 feet of Lot 2, Block 4, Brookhaven Estates, Sedgwick County, Kansas,  
*4MC-074 MH 012*  
*CASE # 99C 3656* *15th JUDIC. DISTRICT COURT* *SE. CO. KS. CIVIL DIST.*

**TRACT 2**  
A permanent easement in, over, across and upon the following described premises, to wit:  
A Sanitary Sewer Easement described as follows:  
The East 15.00 feet of the West 23.00 feet of Lot 2, Block 4, Brookhaven Estates, Sedgwick County, Kansas.  
*4MC-074 MH 012*

**EASEMENT FOR SANITARY SEWER**  
MI-02418 Brookhaven Estates Tract P1  
THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Alfred G. Ponte and Ardith I. Ponte, (hereinafter "Owner").  
WITNESSETH:  
That for and in consideration of the sum of **\*\*\*\$249.00\*\*\*** and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:  
*4MC-074 MH 012*  
The East 15.00 feet of the West 23.00 feet of Lot 3, Block 3, Brookhaven Estates, Sedgwick County, Kansas.

**EASEMENT FOR SANITARY SEWER**  
MI-02417 Brookhaven Estates Tract P1  
THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Alfred G. Ponte and Ardith I. Ponte, (hereinafter "Owner").  
WITNESSETH:  
That for and in consideration of the sum of **\*\*\*\$219.00\*\*\*** and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:  
*4MC-074 MH 012*  
The East 10.00 feet of the West 18.00 feet of Lot 2, Block 3, Brookhaven Estates, Sedgwick County, Kansas.

**TEMPORARY CONSTRUCTION EASEMENT**  
C-53767 Brookhaven Estates Tract T1  
THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Alfred G. Ponte, (hereinafter "Owner").  
WITNESSETH:  
That for and in consideration of the sum of **One Dollar, \$1.00\*\*\*** and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:  
*4MC-074 MH 012*  
The East 30.00 feet of the West 53.00 feet of Lot 3, Block 3, Brookhaven Estates, Sedgwick County, Kansas.

**TEMPORARY CONSTRUCTION EASEMENT**  
C-53766 Brookhaven Estates Tract T1  
THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Alfred G. Ponte, (hereinafter "Owner").  
WITNESSETH:  
That for and in consideration of the sum of **One Dollar, \$1.00\*\*\*** and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:  
*4MC-074 MH 012*  
The East 35.00 feet of the West 53.00 feet of Lot 2, Block 3, Brookhaven Estates, Sedgwick County, Kansas.

1805494 2388 **FILE COPY** 1934 PAGE 1578  
**EASEMENT FOR SANITARY SEWER** Brookhaven Estates Tract P2  
MI-02421  
THIS EASEMENT FOR SANITARY SEWER executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas, acting as the Governing Body of the Sewer District (hereinafter, "County") by Robert D. Adamson, (hereinafter "Owner").  
WITNESSETH:  
That for and in consideration of the sum of **one thousand four hundred \$1,450.00** and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a permanent easement in, over, across and upon the following-described premises, to wit:  
A Sanitary Sewer Easement described as follows: *4MC-074 MH 012*  
The East 15.00 feet of the West 23.00 feet of Lot 6, Block 3, Brookhaven Estates, Sedgwick County, Kansas.

1805495 2388 **FILE COPY** 1934 PAGE 1579  
**TEMPORARY CONSTRUCTION EASEMENT** Brookhaven Tract T2  
MI-02421  
THIS TEMPORARY CONSTRUCTION EASEMENT, executed and delivered to the Board of County Commissioners of Sedgwick County, Kansas (hereinafter, "County") by Robert D. Adamson (hereinafter, "Owner").  
WITNESSETH:  
That for and in consideration of the sum of **one Dollar \$1.00** and other good and valuable consideration, the receipt of which is hereby acknowledged, Owner hereby grants, bargains, sells and conveys to County a temporary easement in, over, across and upon the following-described premises, to wit:  
A Temporary Construction Easement described as follows: *4MC-074 MH 012*  
The East 30.00 feet of the West 53.00 feet of Lot 6, Block 3, Brookhaven Estates, Sedgwick County, Kansas.

**RECORD DRAWING**

**SERVICE CONNECTION DETAILS**  
ADOPTED AS STANDARD DESIGN JANUARY 1998  
BY  
SEDDWICK COUNTY PUBLIC WORKS  
DAVID C. SPEARS, P.E. DIRECTOR, PUBLIC WORKS/COUNTY ENGINEER

DSNR, MDK, OPER, ILS, SCALE: 1"=100'  
C:\1998\98201\SERVDTLS 06-06-2000 11:13:02 am

PLAN	CHECKED	DATE
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PROFILE	CHECKED	DATE
	CHECKED	

DSMR: MDK OPER: ILS SCALE: 1"=20.00  
 Q:\1998\98201\SSPPT 06-06-2000 11:40:31 am

Sta. 0+00.00  
 Existing MH 64-1-8  
 Core concrete MH wall and install new 8" pipe. Seal new 8" pipe to MH with an approved waterstop gasket and quick-set hydraulic cement. Construct a minimum of 3' reinforced concrete encasement from MH wall. Reshape invert to provide smooth flow. This work shall be considered subsidiary to the price bid for pipe in place.

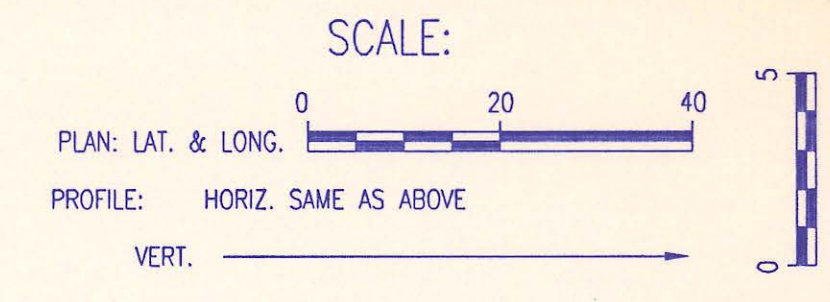
Masonry fence to remain. Tunnel beneath as required.

CAUTION !!!  
 12" Waterline (City of Wichita)  
 8" Gasline (Kansas Gas Service)  
 Buried Telephone (SWB)

CAUTION !!!  
 Buried Telephone (SWB)

Sta. 3+77.94-78.60  
 Const. MH 12-2-1  
 Type A

Remove and replace Concrete Slab and reset shed. Coordinate location with owner. Do not place over new sanitary sewer. Cost subsidiary to site clearing and restoration.



CAUTION !!!  
 Buried CATV (Multimedia Cablevision)  
 Buried Electric (KGE)

Contractor to support telephone cable in place during construction and protect from damage.

55  
 Sta. 0+59 to Sta. 1+15  
 Install 56 L.F. 18" I.D. (min.)  
 Steel Casing pipe by boring.  
 See detail, sheet no. 5

CAUTION!!!  
 Telephone Boxes and Buried Line shall be removed and reset as required by SWB. Coordinate with SWB, Mr. Greg Sharpe at 268-2245.  
 (Provide at least 2 weeks notice)  
 Relocation costs if any, shall be considered subsidiary to site clearing and restoration.

378.60  
 Install 377.94 L.F.  
 8" PVC Pipe

ALL PIPE INSTALLED IS PVC PIPE.

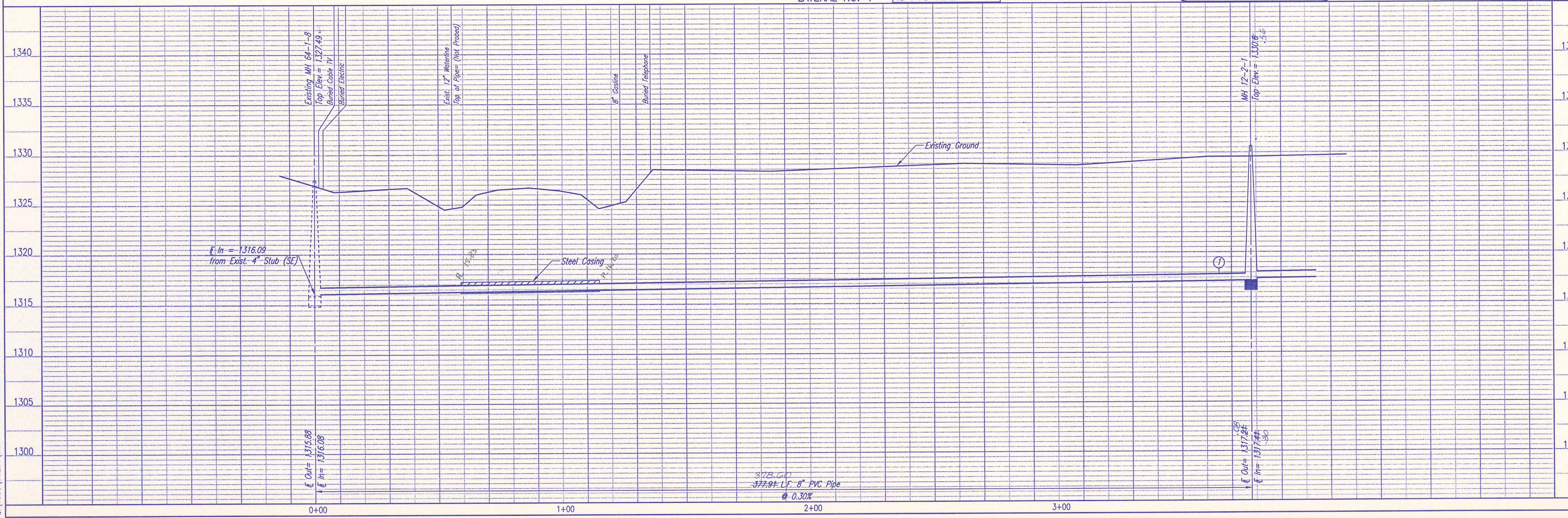
1 2  
 DENOTES SEWER SERVICE. SEE SHEET NO. 6 FOR SEWER SERVICE SCHEDULE AND DETAILS

SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.

RECORD DRAWING



LATERAL NO. 1



SEDCWICK COUNTY BUREAU OF PUBLIC SERVICES  
 DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 ENGINEERS  
 WICHITA, KANSAS

Job No. 34-98201  
 Date April 1998

Designed By MDK  
 Drawn By BB

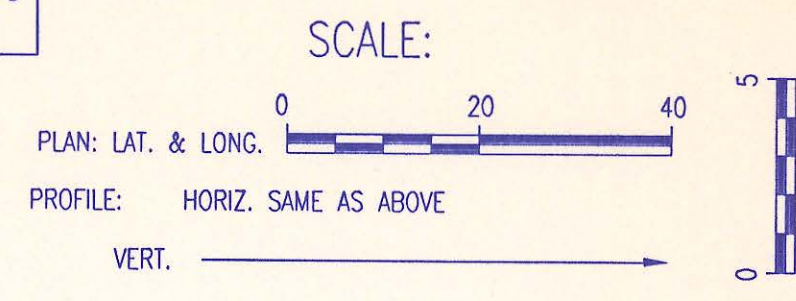
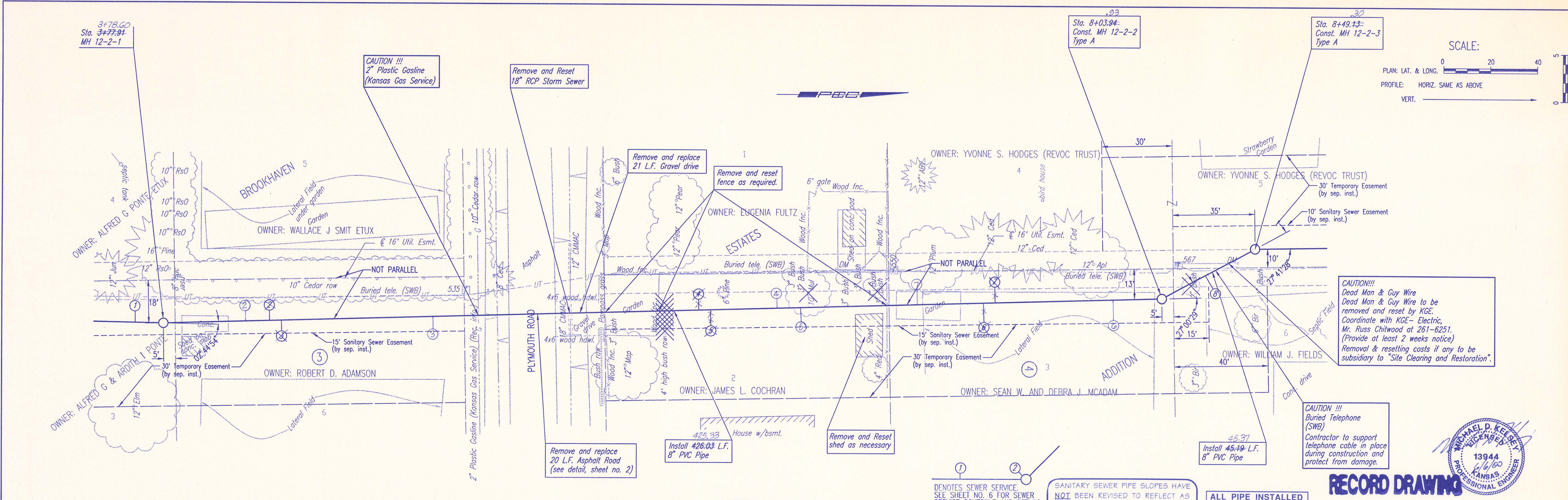
LATERAL NO. 1  
 SANITARY SEWER IMPROVEMENTS  
 BROOKHAVEN ESTATES (PHASE 1)

Sheet 7 of 9

PLAN	CHECKED	DATE
	CHECKED	

PROFILE	CHECKED	DATE
	CHECKED	

DSNR, MDK OPER: ILS SCALE: 1=20.00  
 Q:\1998\98201\SSP2 06-06-2000 11:41:49 am



**CAUTION!!!**  
 Dead Man & Guy Wire  
 Dead Man & Guy Wire to be removed and reset by KGE. Coordinate with KGE - Electric, Mr. Russ Chitwood at 261-6251. (Provide at least 2 weeks notice) Removal & resetting costs if any to be subsidiary to "Site Clearing and Restoration".

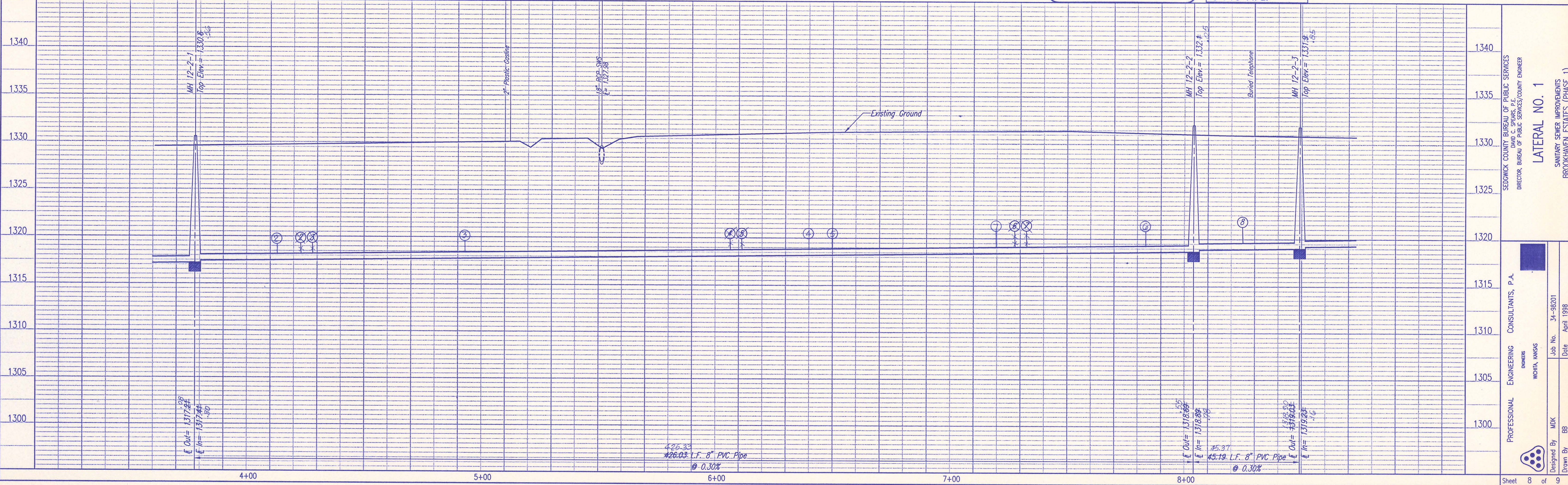
**CAUTION!!!**  
 Buried Telephone (SWB)  
 Contractor to support telephone cable in place during construction and protect from damage.



**RECORD DRAWING**

LATERAL NO. 1

① DENOTES SEWER SERVICE. SEE SHEET NO. 6 FOR SEWER SERVICE SCHEDULE AND DETAILS  
 ② SANITARY SEWER PIPE SLOPES HAVE NOT BEEN REVISED TO REFLECT AS CONSTRUCTED CONDITIONS.  
 ALL PIPE INSTALLED IS PVC PIPE.



SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES  
 DIRECTOR: BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

**LATERAL NO. 1**  
 SANITARY SEWER IMPROVEMENTS  
 BROOKHAVEN ESTATES (PHASE 1)

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 ENGINEERS  
 WICHTA, KANSAS

Job No. 34-98201  
 Date April 1998

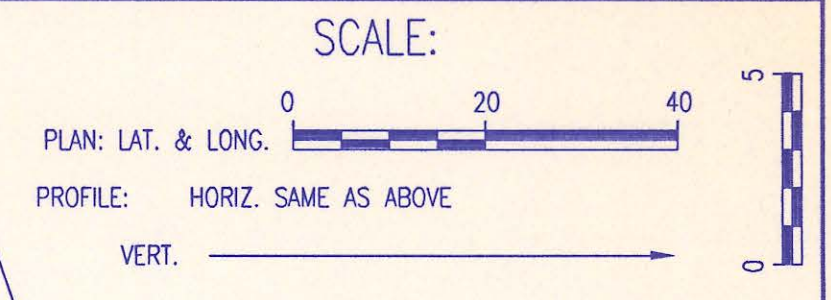
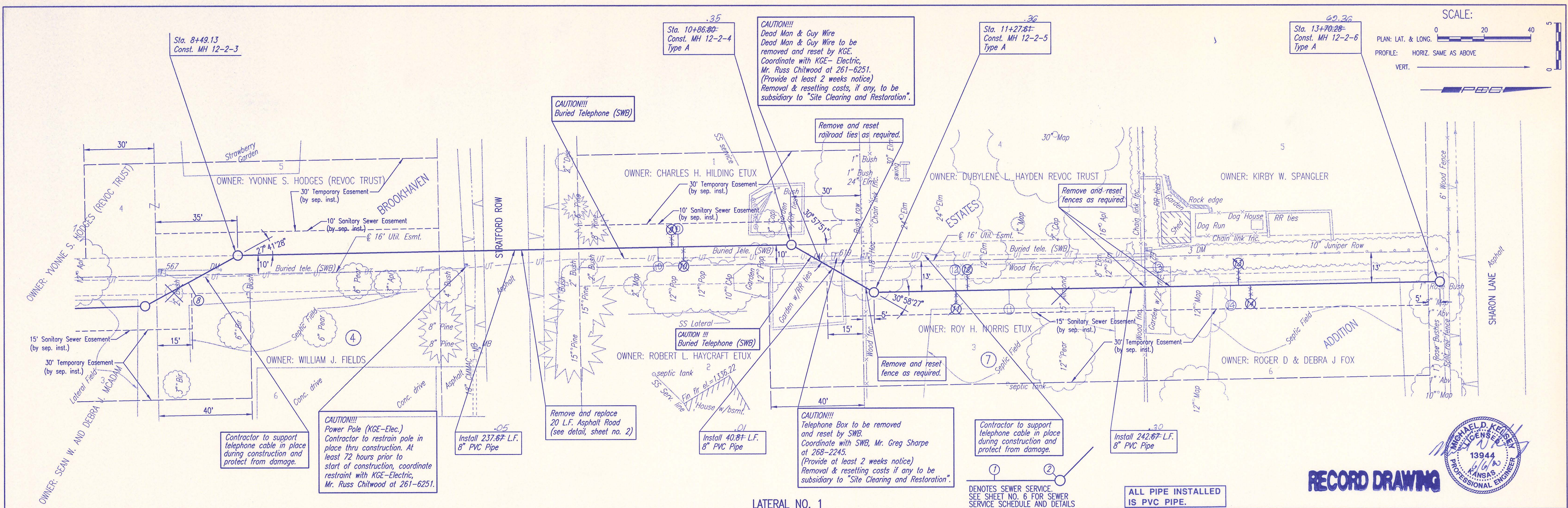
Designed By MDK  
 Drawn By BB

Sheet 8 of 9

PLAN	CHECKED	CHECKED
BY		
DATE		

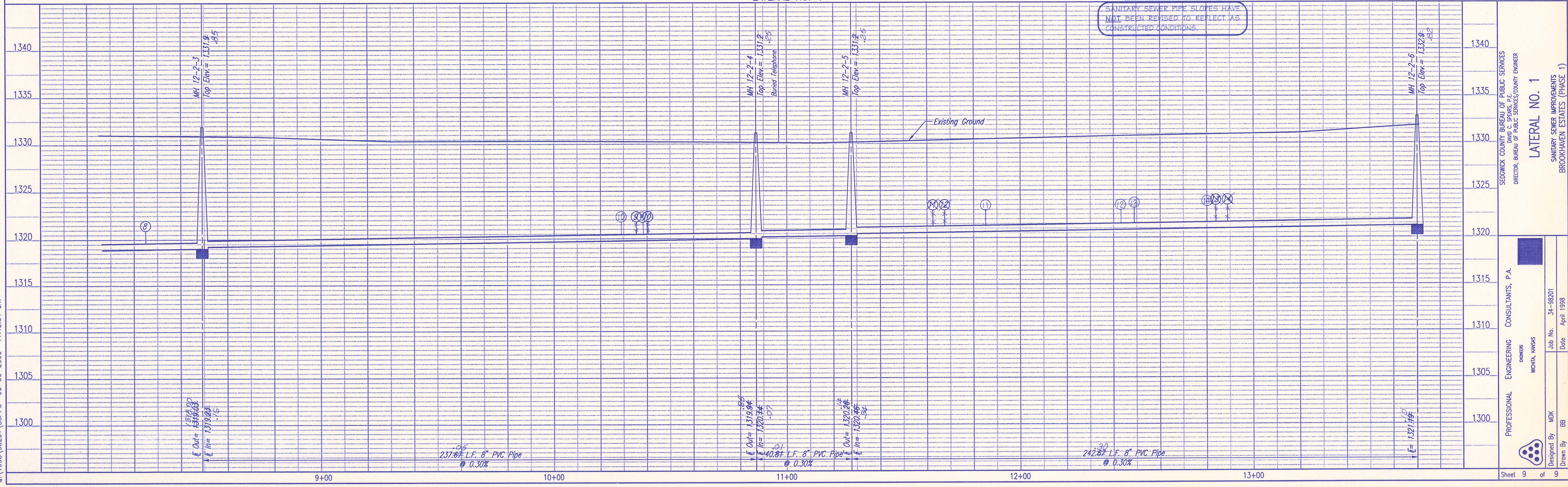
PROFILE	CHECKED	CHECKED
BY		
DATE		

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 Q:\1998\98201\SSPP3 06-06-2000 11:42:54 am



**RECORD DRAWING**

LATERAL NO. 1



SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES  
 DIRECTOR, BUREAU OF PUBLIC SERVICES/COUNTY ENGINEER

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 OWNERS: WICHITA, KANSAS

Job No. 34-98201  
 Date April 1998