

PRIVATE STORM WATER SEWER PLANS FOR CLUBHOUSE VILLAS

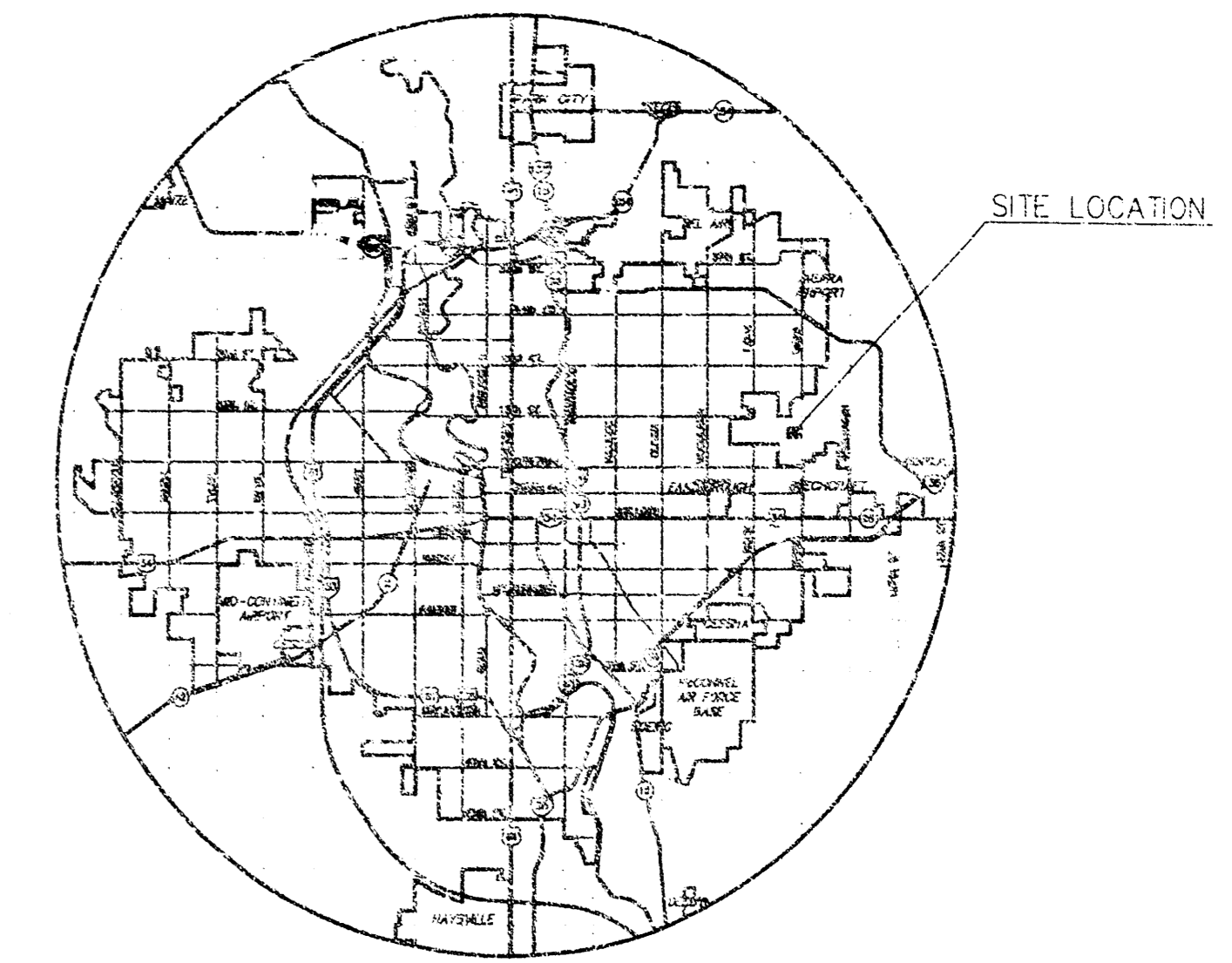
CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, CITY ENGINEER
INDEX CODE 607861
USER CODE 1030 PPS

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

STORM WATER SEWERS: *J.R. 10/16/00*

NOTE TO CONTRACTOR

PUBLIC PROPERTY:
INSPECTION AND TESTING FOR THE SEWER LINE 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 THE 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).



LOCATION MAP

GENERAL NOTES

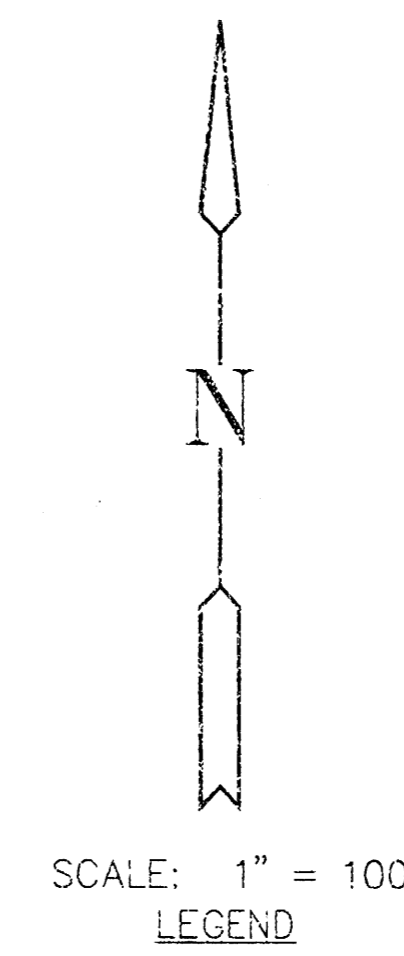
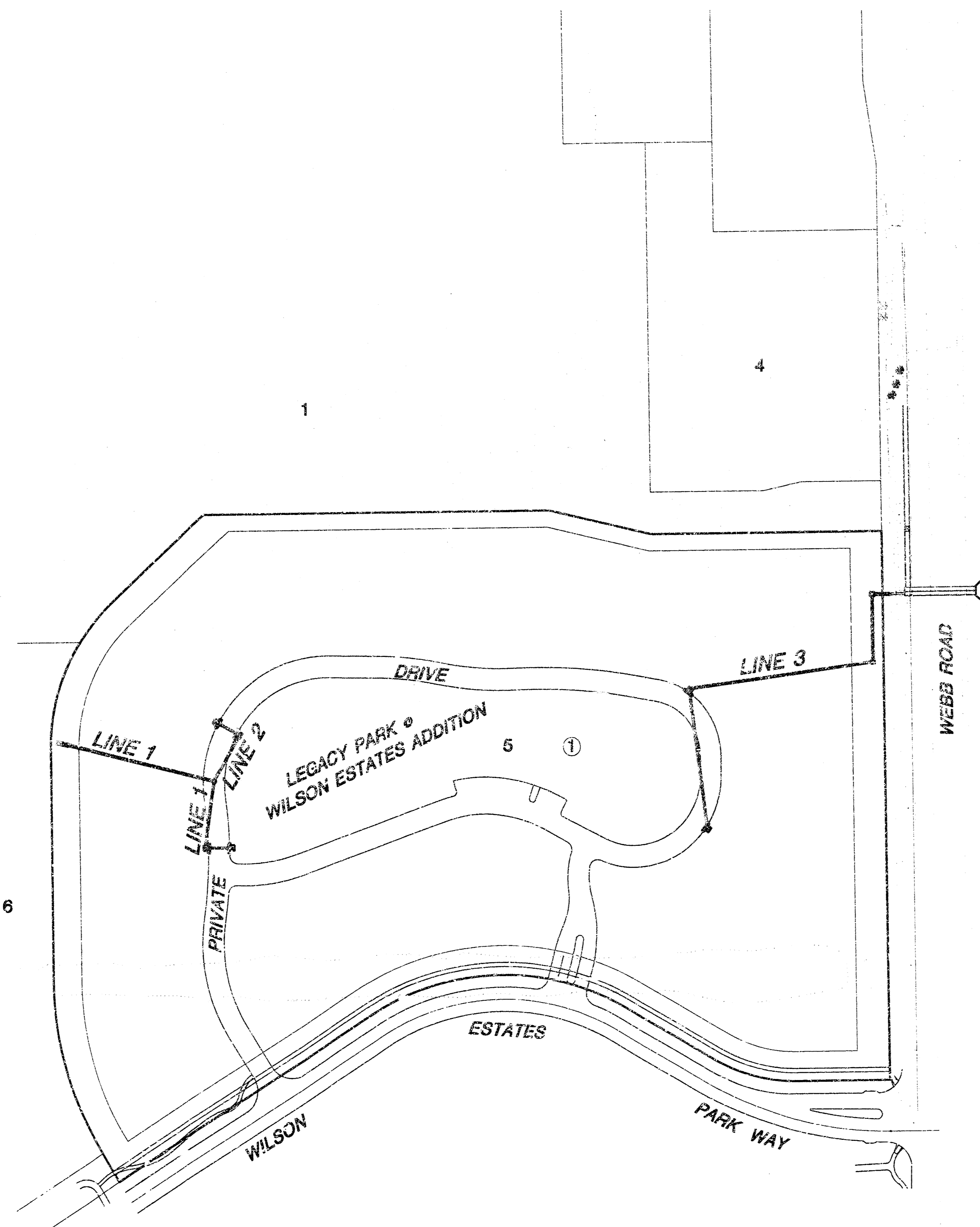
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS/HER CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PAL LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL 1-800-344-7233
OR 687-2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF ANY EMERGENCY:

SOUTHWESTERN BELL TELEPHONE COMPANY 1-517-2115
COX COMMUNICATIONS 262-0961
KANSAS GAS & ELECTRIC (ELECTRIC) 264-1141
KANSAS GAS & ELECTRIC (GAS) 832-3180 OR 832-3169
CITY OF WICHITA SEWER MAINTENANCE 259-4908
CITY OF WICHITA WATER DEPARTMENT 268-4908

- 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.
- PRIOR TO LAYING SEWER LINE, THE CONTRACTOR SHALL EXPOSE AND VERIFY THE ELEVATION OF FLOW LINE OF EXISTING LINE AND NOTIFY THE ENGINEER OF ANY DEVIATION FROM THE PLANS.
- 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.
- CONTRACTOR SHALL RESEED AND MULCH ALL DISTURBED AREAS. COST SHALL BE SUBSIDIARY TO SITE RESTORATION.
- CONTRACTOR SHALL PROVIDE TEMPORARY SEDIMENT CONTROL AT ALL INLETS. SUCH CONTROLS SHALL BE MAINTAINED UNTIL AND UPON GERMINATION OF SEEDING. ACCEPTABLE MEANS OF CONTROL SHALL BE APPROVED BY ENGINEER.

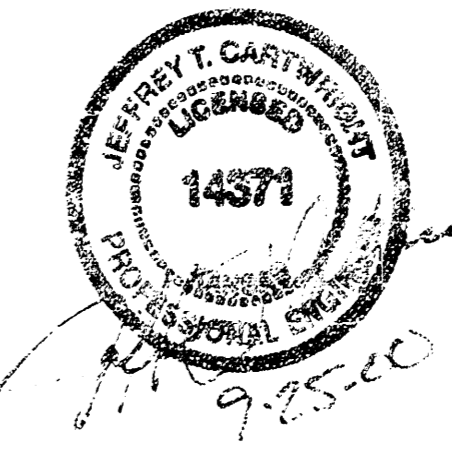


INDEX TO DRAWINGS

| SHEET NO. | DESCRIPTION |
|-----------|-------------------------|
| 1 | TITLE SHEET |
| 2-5 | SWS DETAILS |
| 6 | EROSION CONTROL DETAILS |
| 7-8 | PLAN/PROFILE |
| 9 | FINAL PLAT |

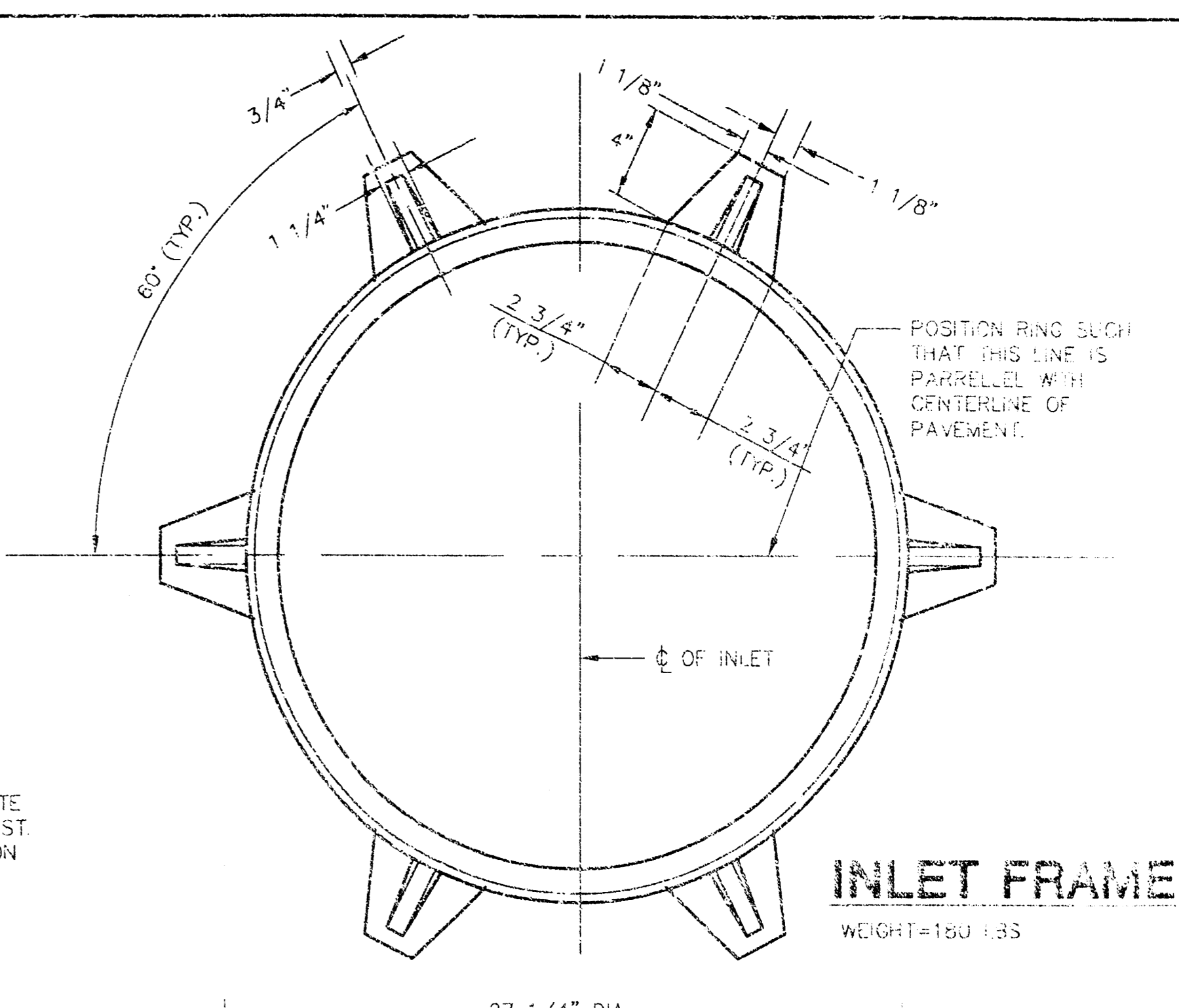
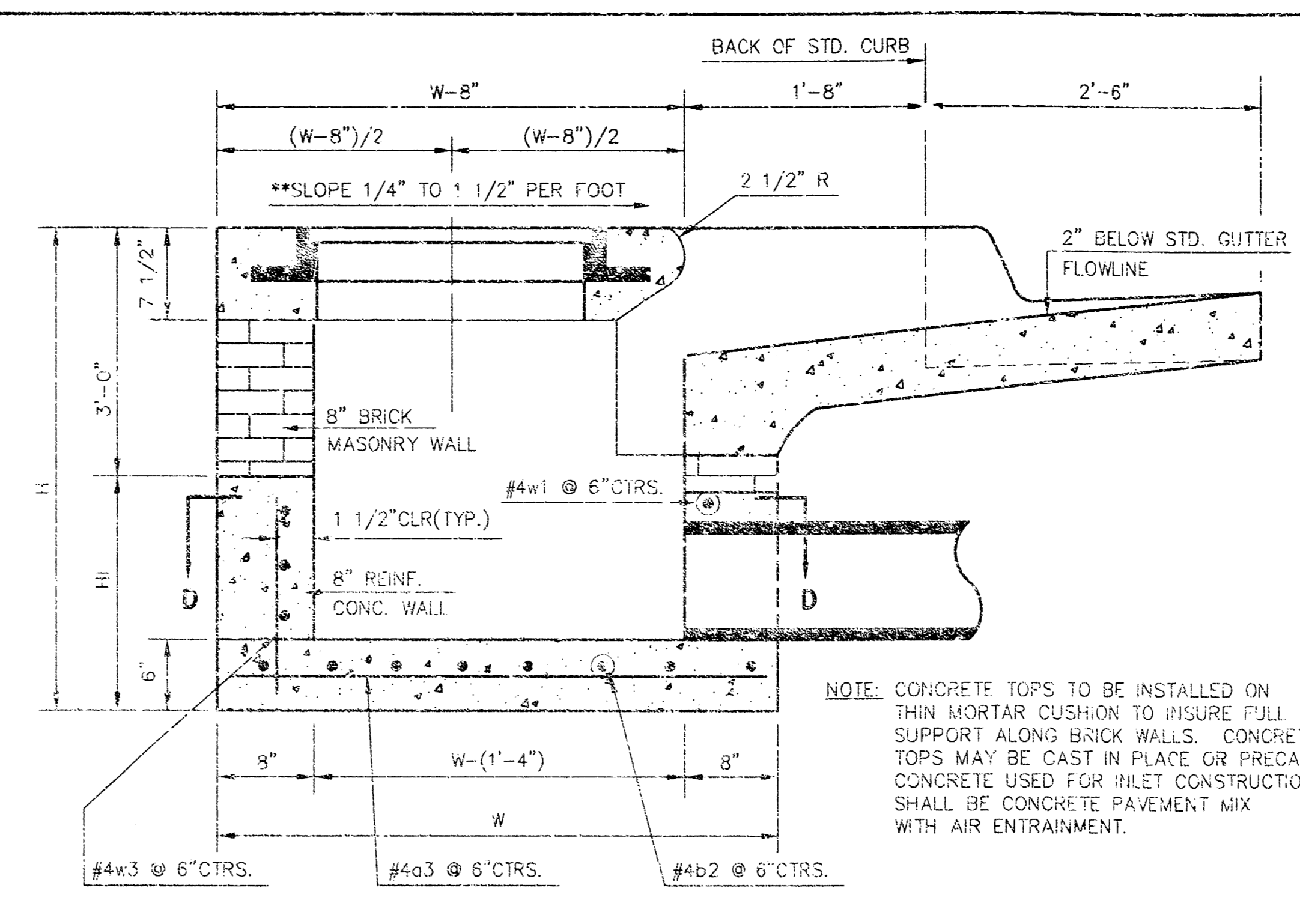
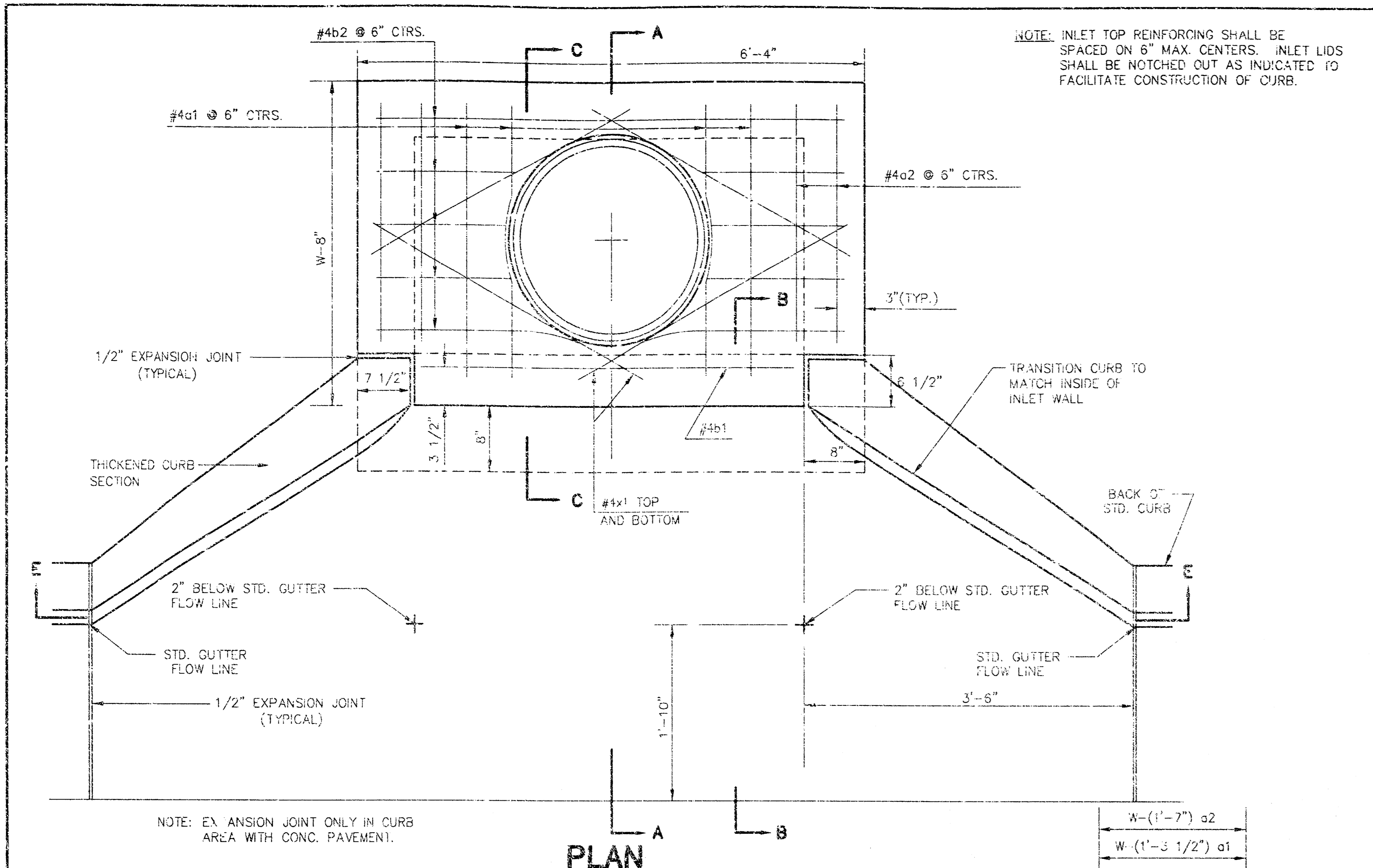
BENCHMARKS

BM #1: CITY OF WICHITA BENCH MARK DISC IN NE CORNER CONCRETE VAULT, 400' WEST OF WEBB ROAD ON NORTH SIDE OF 21ST STREET NORTH. ELEV.=205.70



| | | |
|---|-------------------------|--------------------|
| M.K.E.C. 411 N. WEBB ROAD WICHITA, KS. 67206 316-684-9600 | CLUBHOUSE VILLAS | |
| | PROJECT NAME | |
| STORM WATER SEWER PLANS | | |
| SHEET TITLE | | |
| JTC DESIGN BY: | DAC DRAWN BY: | GJA CHECKED BY: |
| AUGUST 2000 DATE | 99187 JOB NO. | 1 / 9 SHEET/OF |

14-04-08-11



PRECAST SLAB AND FLOOR REINFORCING

| MARK | SIZE | W=4'-4" | | W=5'-4" | | W=6'-4" | | W=7'-4" | | W=8'-4" | |
|------|------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| | | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH |
| a1 | #4 | 6 | 6'-7" | 6 | 8'-7" | 6 | 10'-7" | 6 | 12'-7" | 6 | 14'-7" |
| a2 | #4 | 4 | 6'-0" | 4 | 8'-0" | 4 | 10'-0" | 4 | 12'-0" | 4 | 14'-0" |
| a3 | #4 | 13 | 4'-1" | 13 | 5'-1" | 13 | 6'-1" | 13 | 7'-1" | 13 | 8'-1" |
| b1 | #4 | 1 | 4'-9" | 1 | 4'-9" | 1 | 4'-9" | 1 | 4'-9" | 1 | 4'-9" |
| b2 | #4 | 73 | 6'-1" | 23 | 6'-1" | 35 | 6'-1" | 41 | 6'-1" | 47 | 6'-1" |
| x1 | #4 | 8 | 3'-10" | 8 | 4'-2" | 8 | 4'-5" | 8 | 4'-10" | 8 | 5'-2" |

WALL REINFORCING

| MARK | SIZE | W=4'-4" | | W=5'-4" | | W=6'-4" | | W=7'-4" | | W=8'-4" | |
|------|------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| | | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH |
| w1 | #4 | ① | 6'-1" | ① | 6'-1" | ① | 6'-1" | ① | 6'-1" | ① | 6'-1" |
| w2 | #4 | ① | 4'-1" | ① | 5'-1" | ① | 6'-1" | ① | 7'-1" | ① | 8'-1" |
| w3 | #4 | 32 | ② | 36 | ② | 40 | ② | 44 | ② | 48 | ② |

BENDING DIAGRAM

| W | PRE-CAST TOP SIZE | PIPE SIZE | CU. YD. CONC. |
|-------|--------------------|---------------|---------------|
| 4'-4" | 3'-8"x6'-4"x7 1/2" | 21" & SMALLER | 0.38± |
| 5'-4" | 4'-8"x6'-4"x7 1/2" | 24" & 30" | .51± |
| 6'-4" | 5'-8"x6'-4"x7 1/2" | 36" & 42" | .64± |
| 7'-4" | 6'-8"x6'-4"x7 1/2" | 48" & 54" | .77± |
| 8'-4" | 7'-8"x6'-4"x7 1/2" | 60" & 66" | .90± |

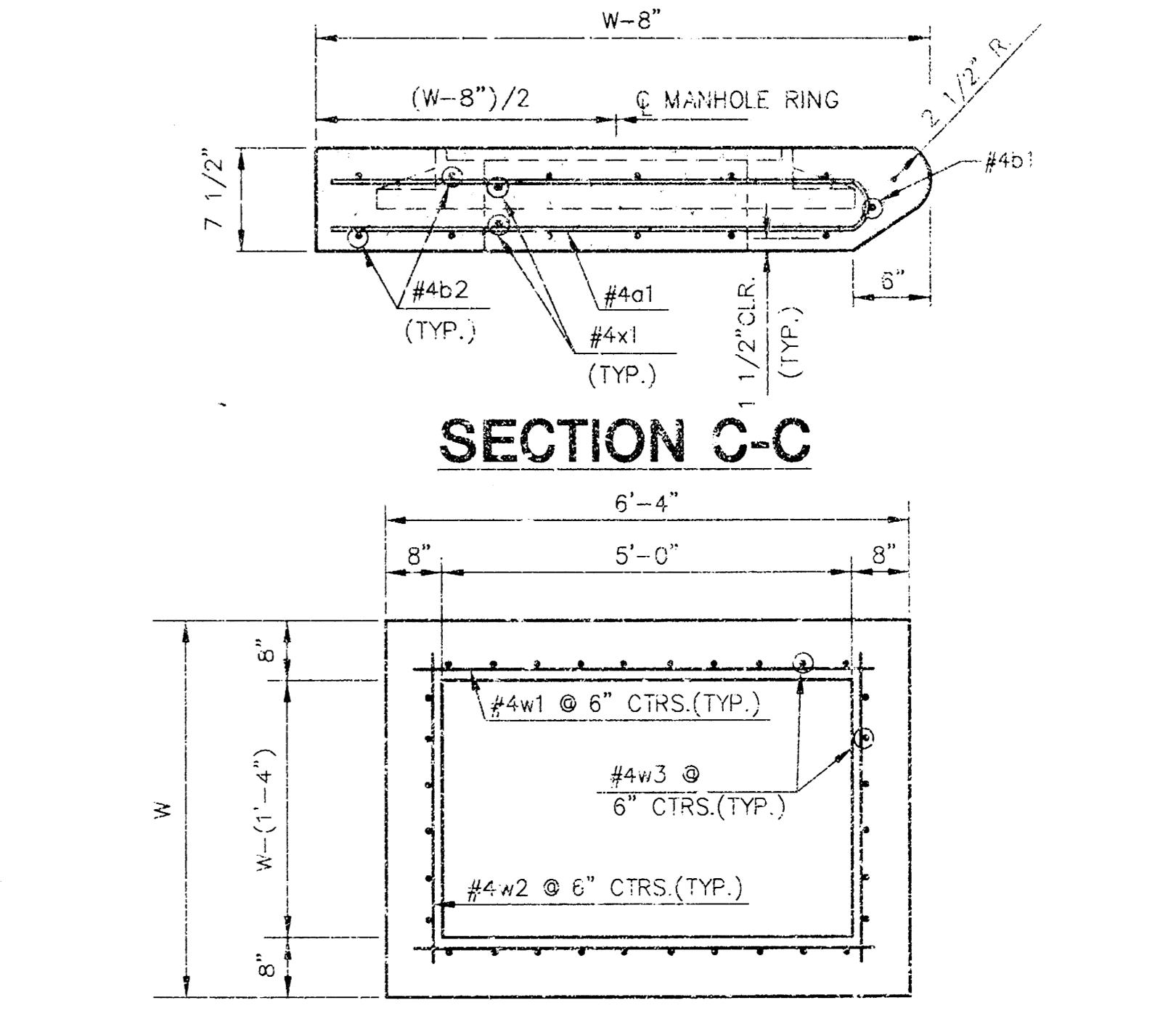
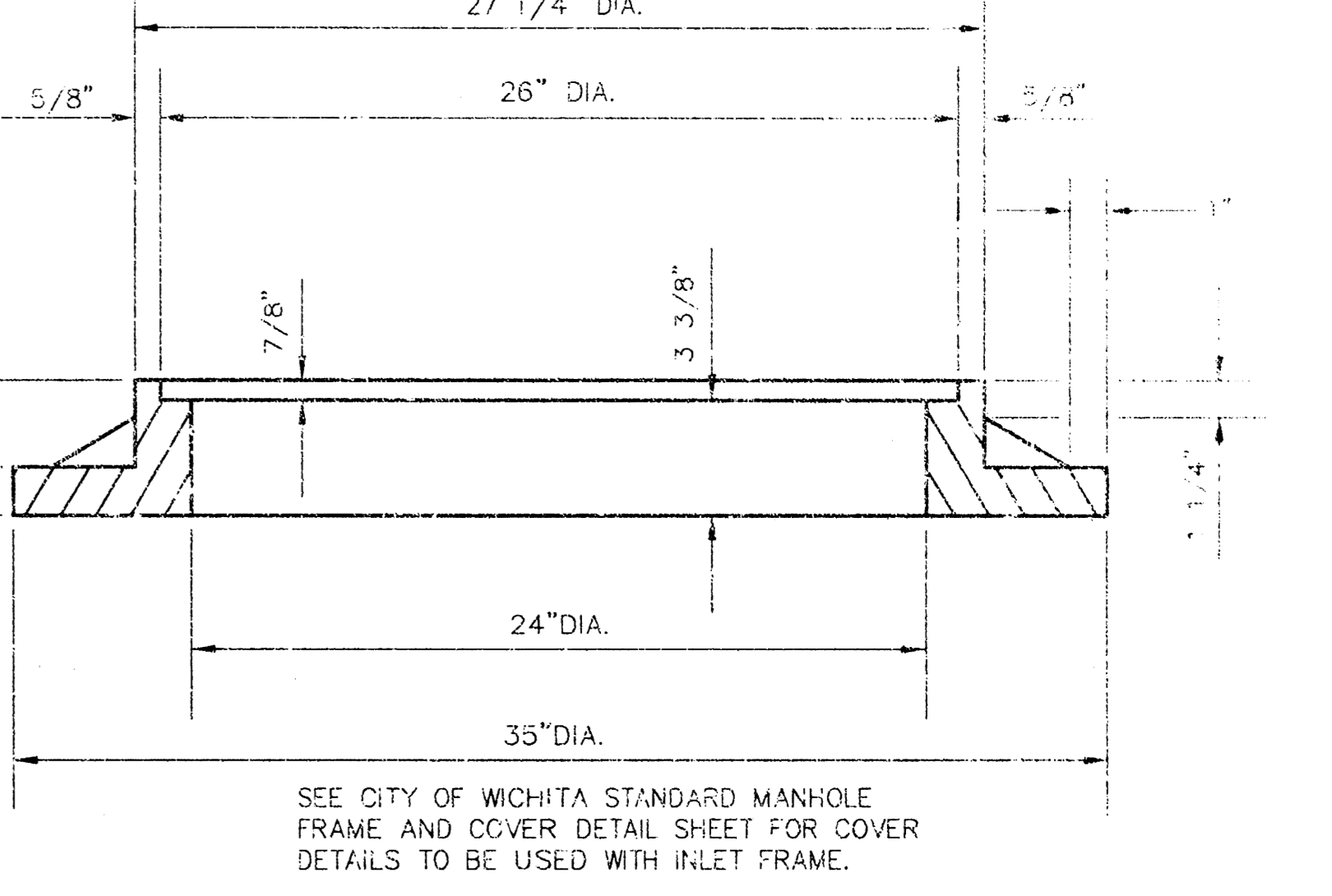
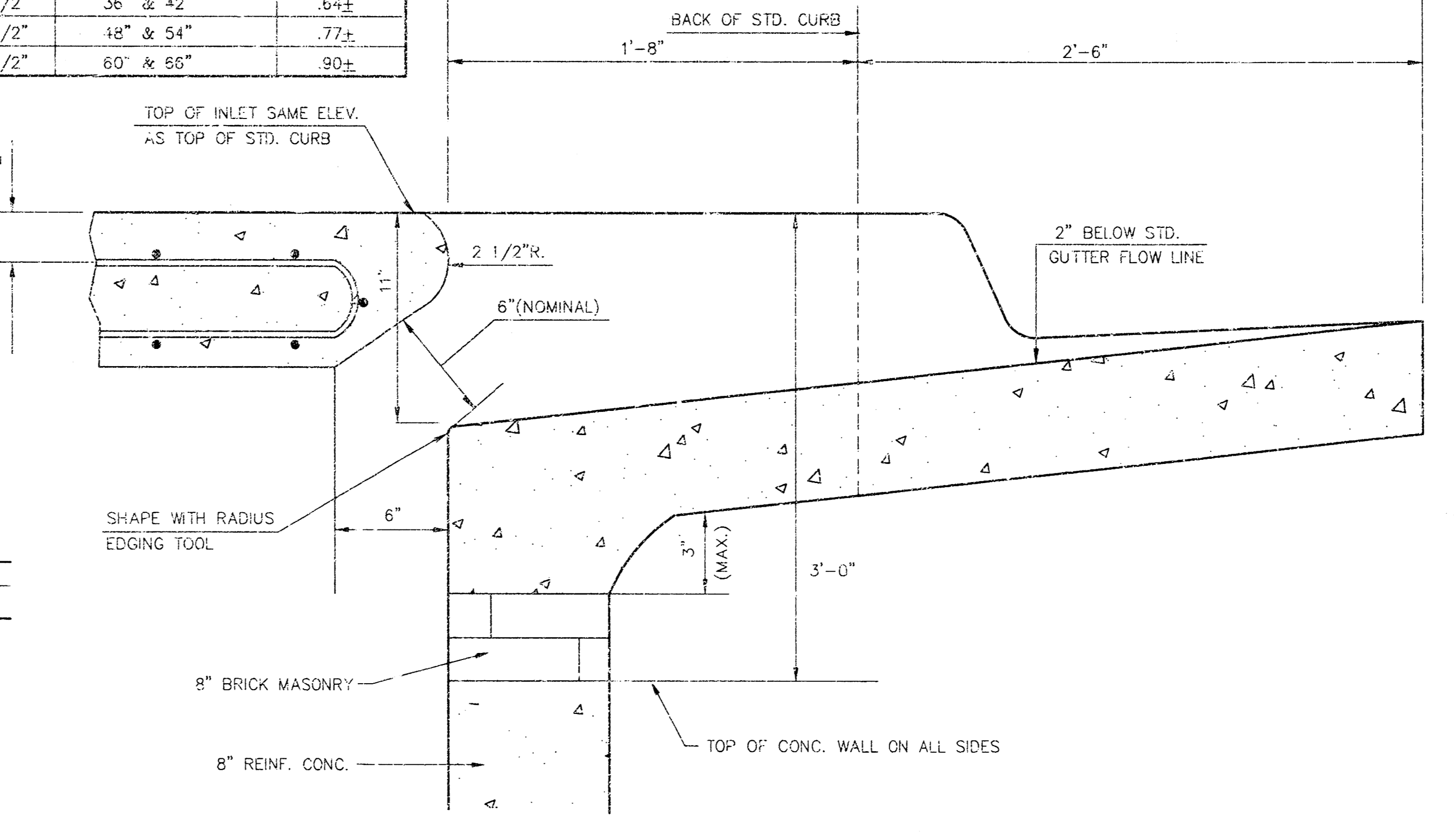
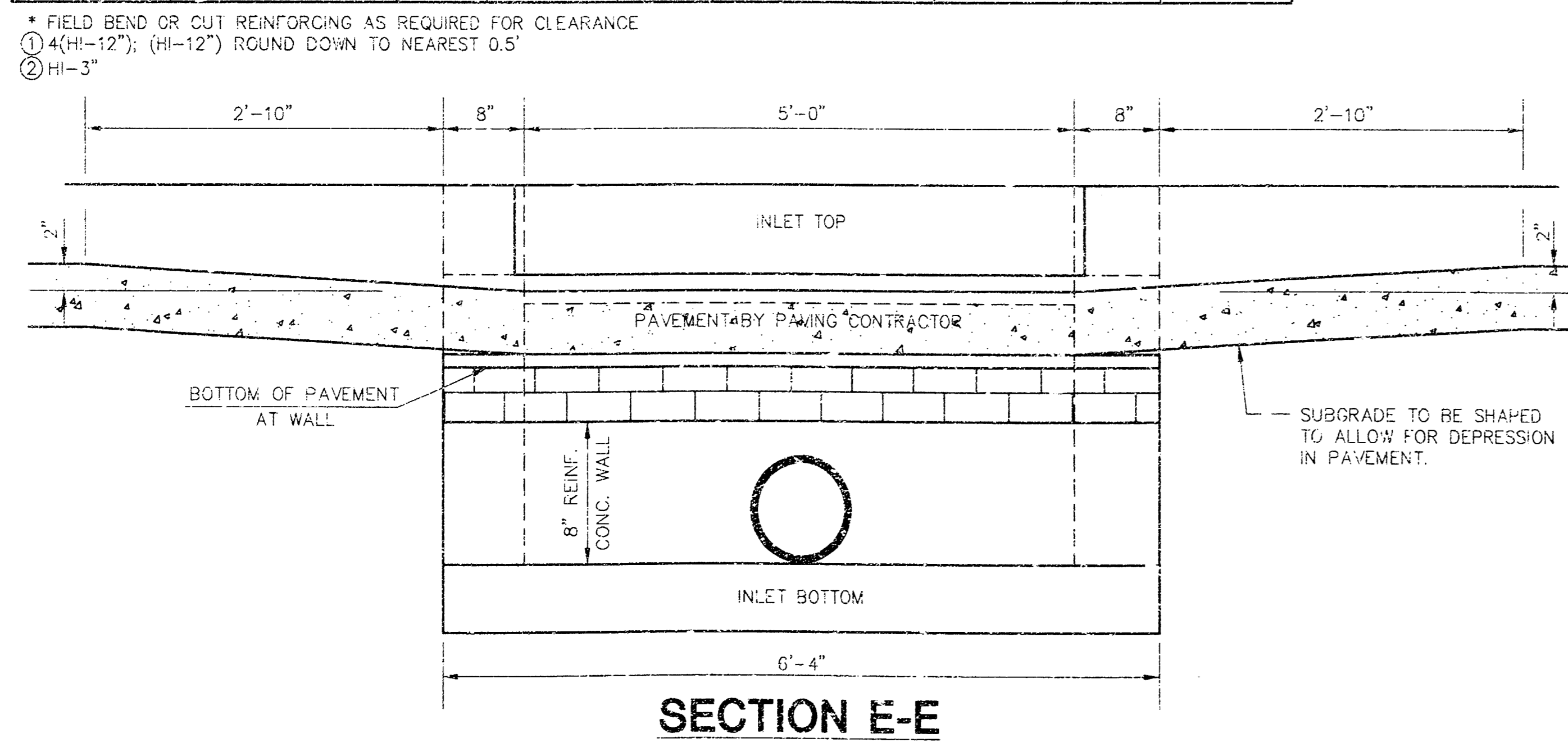
NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W=6'-4" AND H=7'-0" OR LESS.

ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

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.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

**NOTE: SLOPE OF INLET TOPS TO MATCH SIDEWALK OR PARKING SLOPES WITHIN LIMITS INDICATED.



REVISED: 2-18-86 C.O.W.

STANDARD TYPE 1A CURB INLET
INLET OPENING=6"x5'-0"

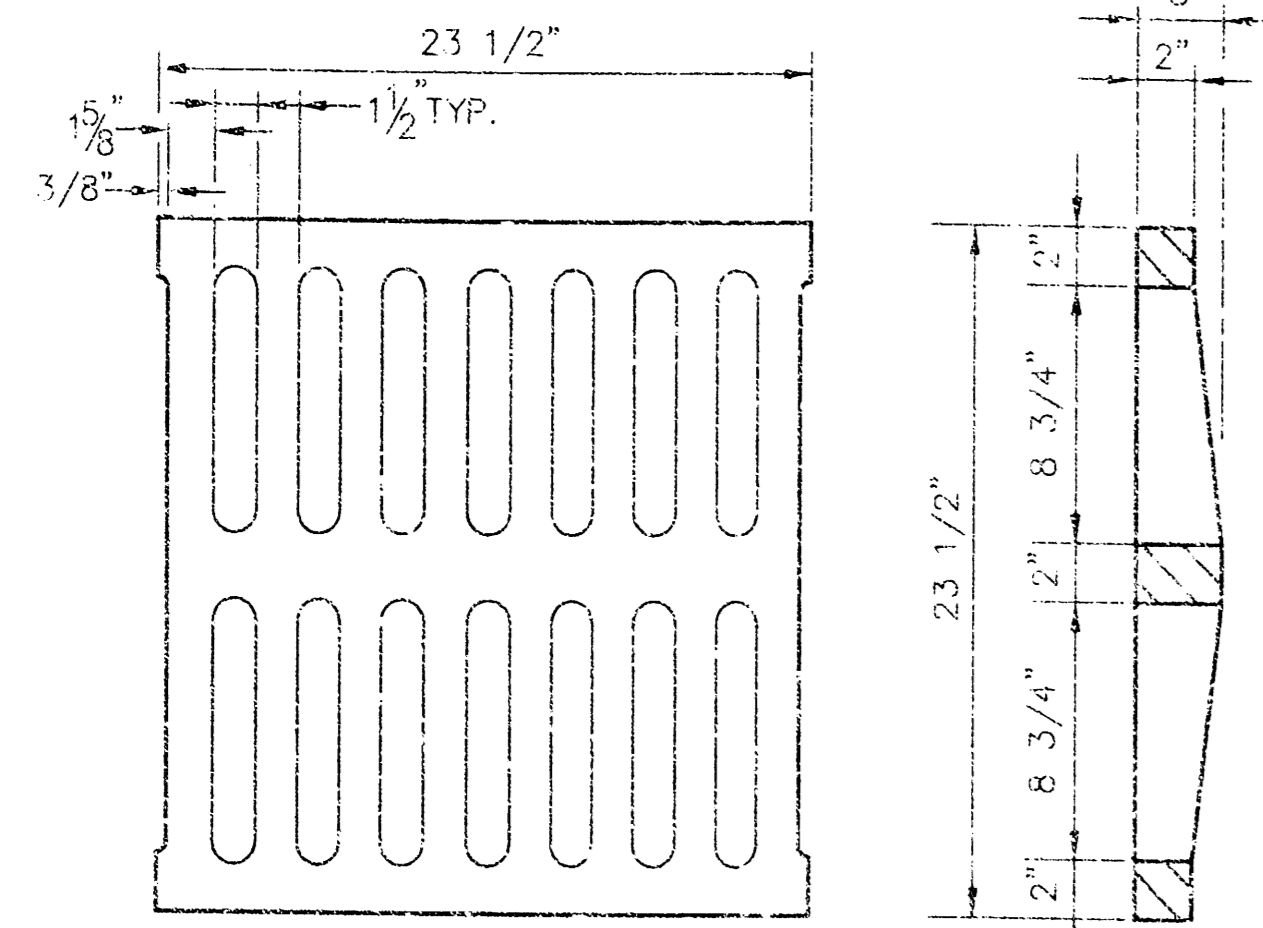
JUNE 1984
CITY OF WICHITA, KANSAS

| | | | |
|---------------|------------|----------------|------------------|
| Design C.O.W. | Checked by | Checked by | 2/9 |
| Drawn by | Date | Date JULY 1996 | Job No. 99187DD1 |

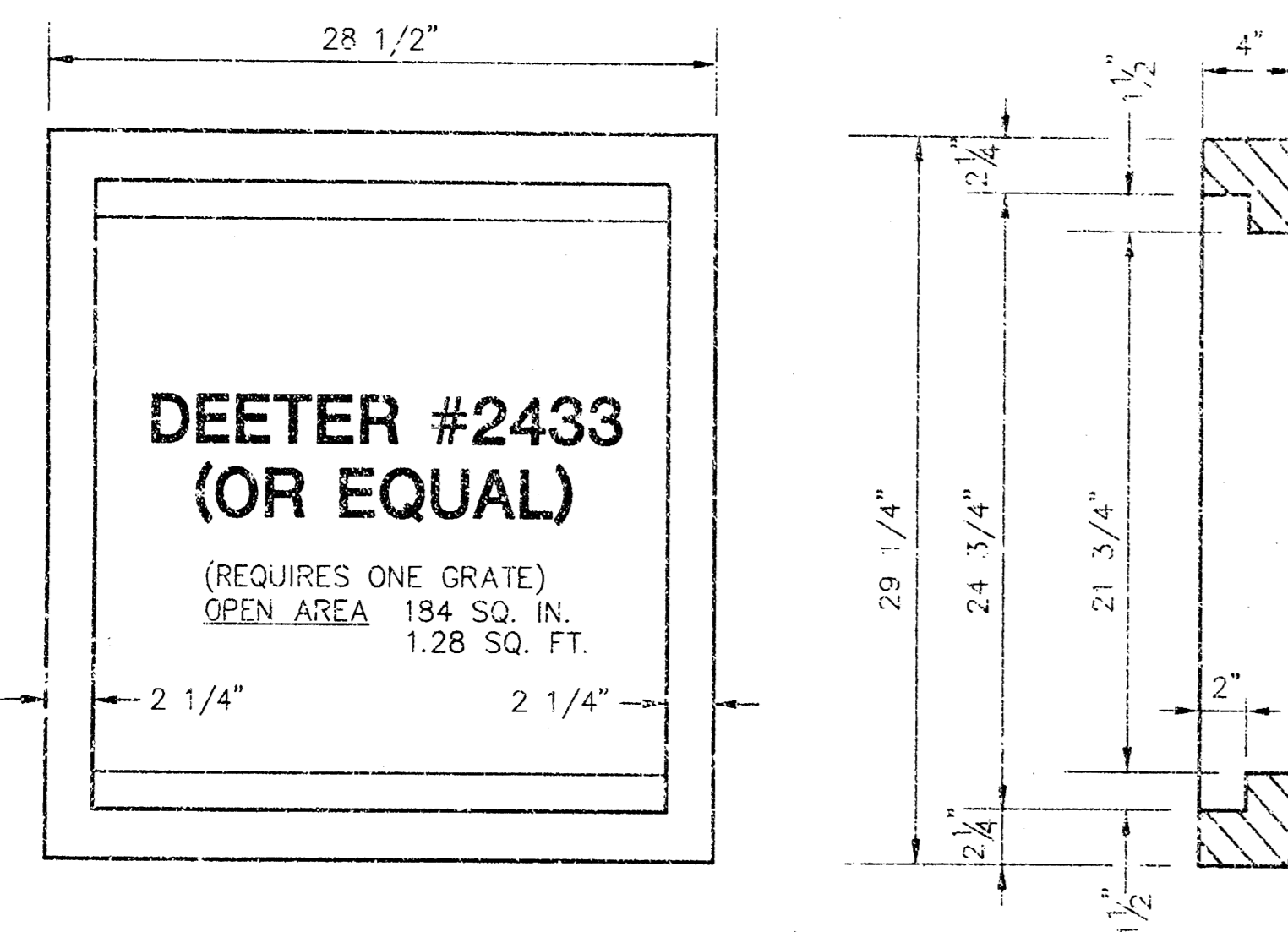
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16:25:14.14.17.2000

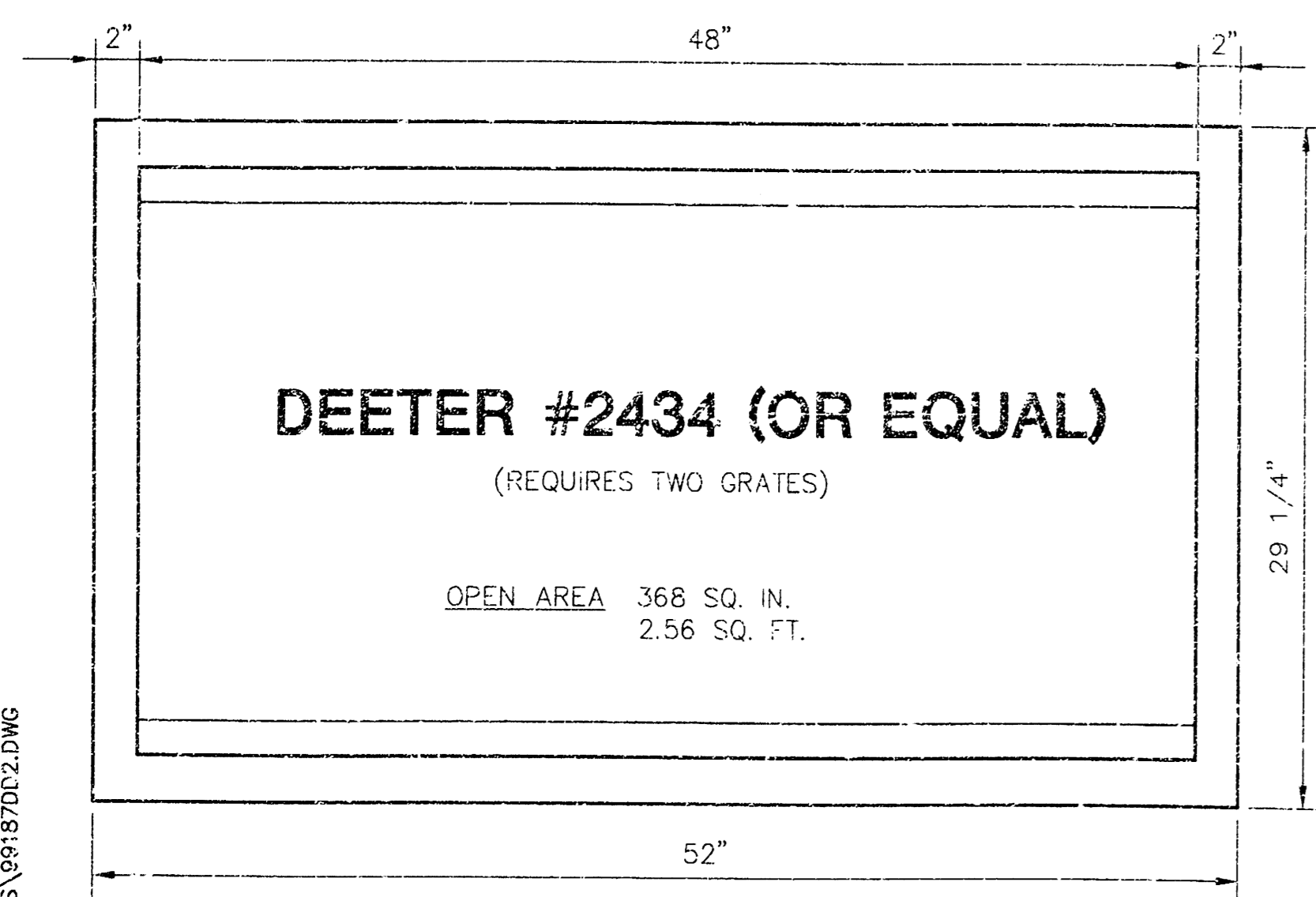
NOTE: GRATES SHALL BE IMPRINTED ON THE TOP SURFACE WITH "CITY OF WICHITA" USING LETTERS AT LEAST 1" IN HEIGHT. OTHER MARKING METHODS MAY BE USED ONLY IF APPROVED BY THE ENGINEER.



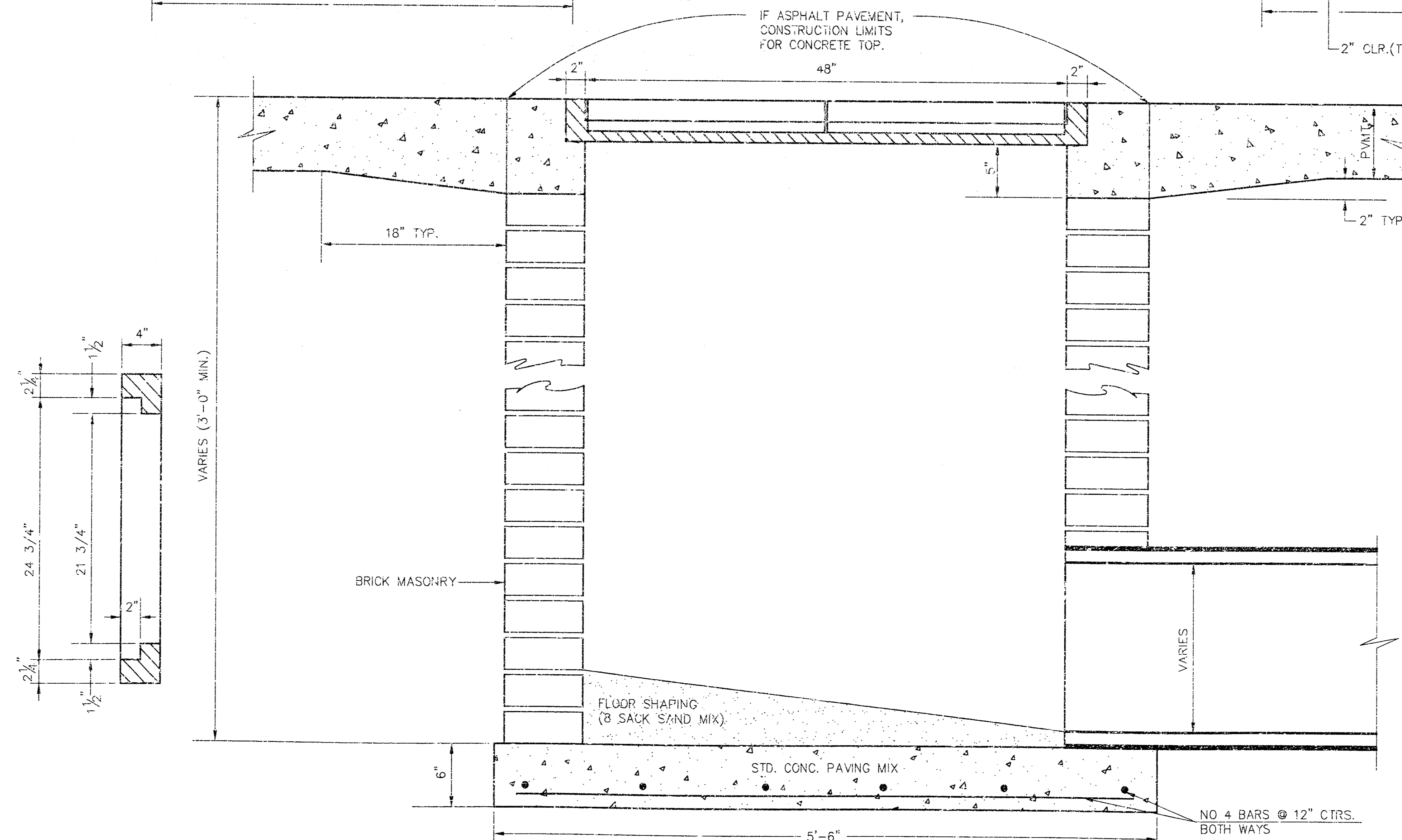
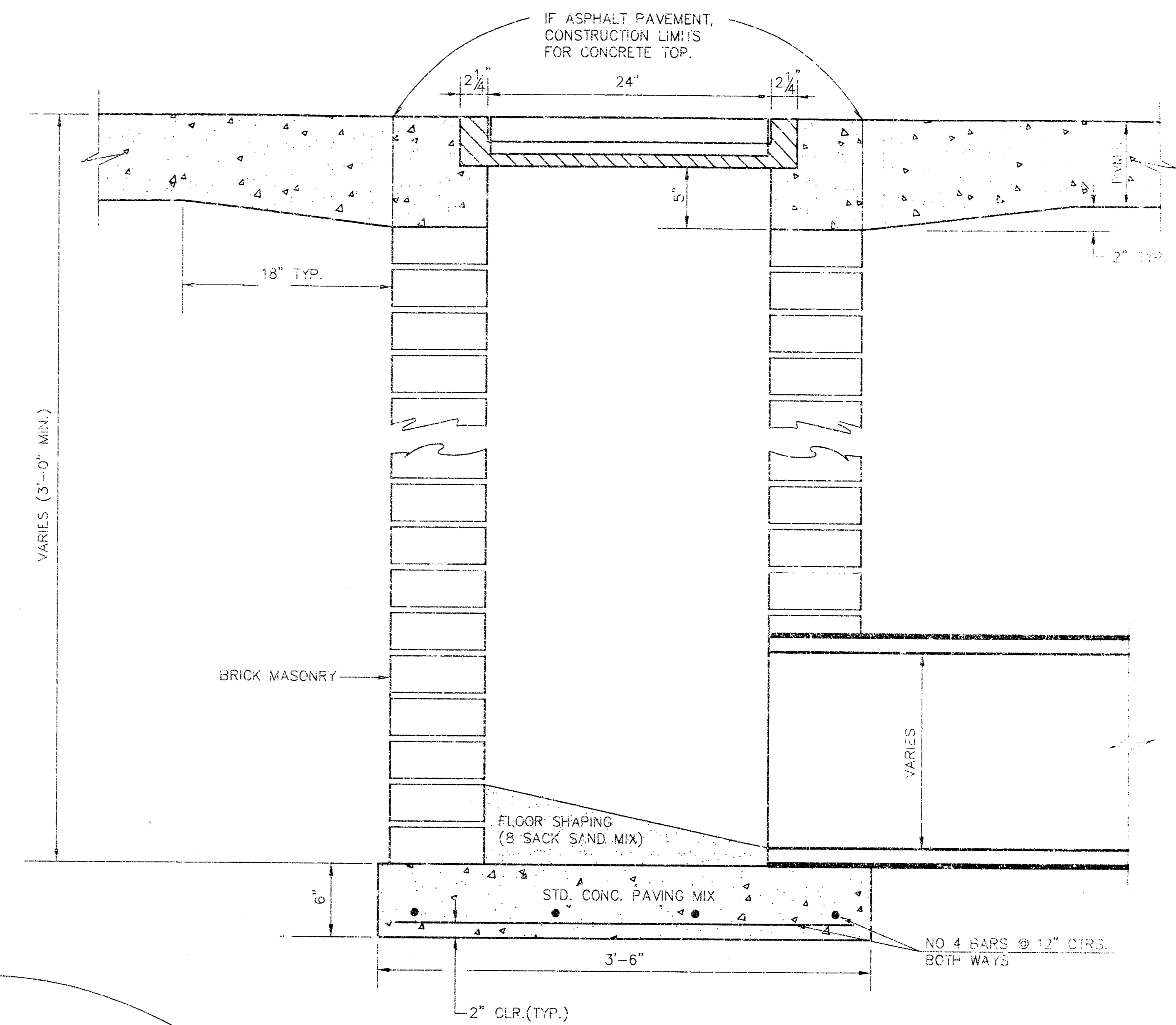
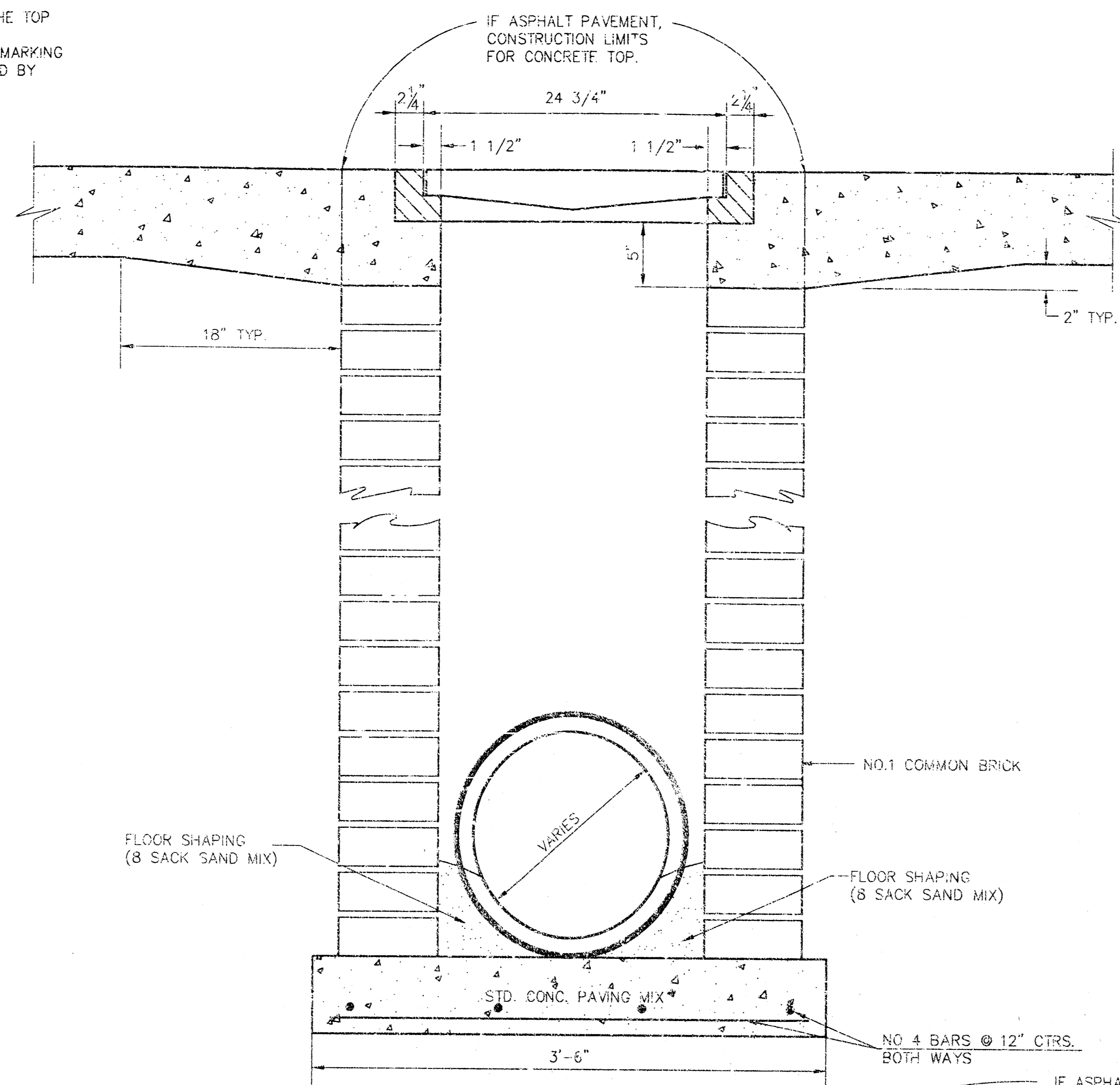
24"x24" GRATE DETAIL



SINGLE 24"x24" FRAME DETAIL



DOUBLE 24"x24" FRAME DETAIL

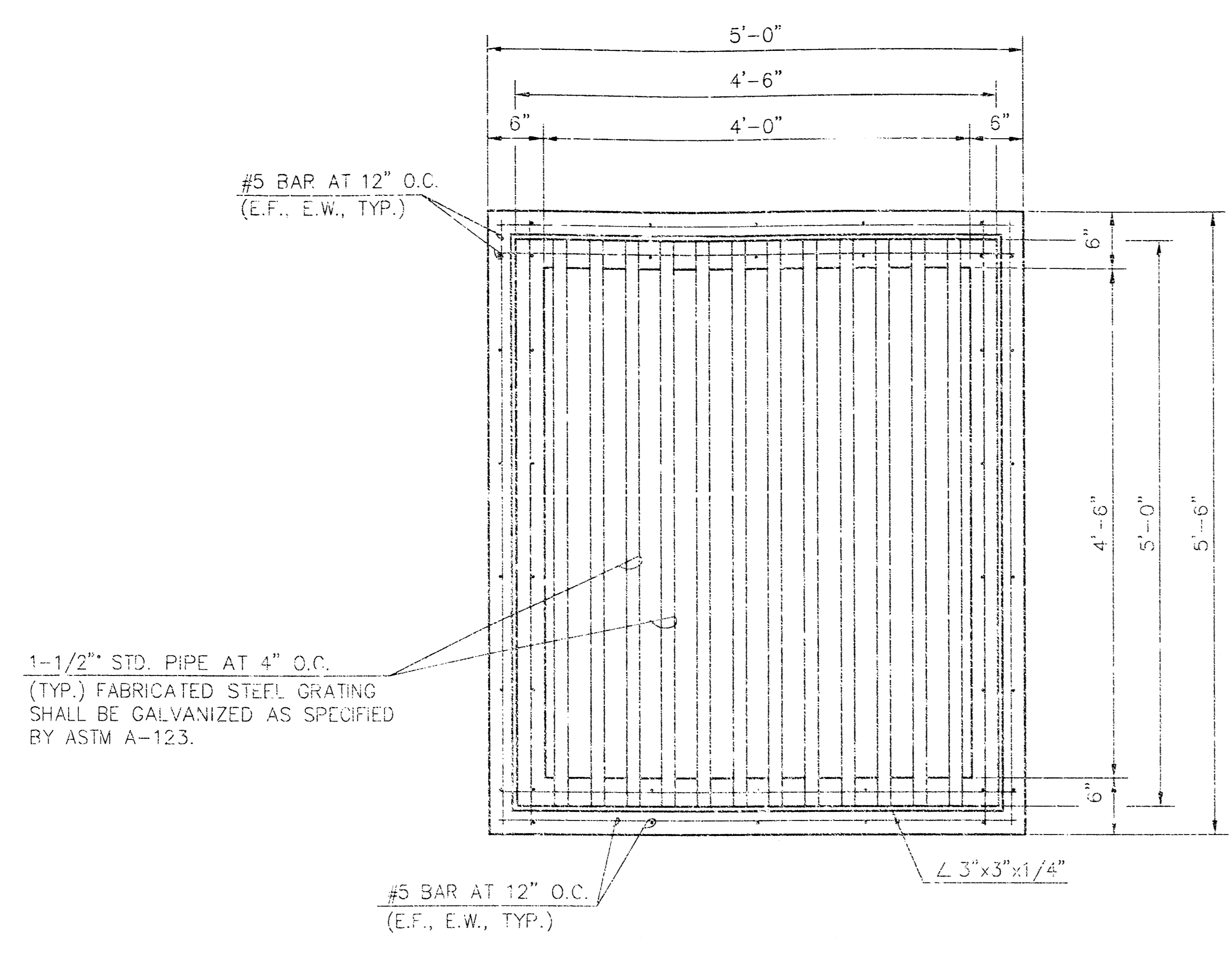


| ORIFICE EQUATION | | |
|---|----------------|----------------|
| $Q = C \cdot A \cdot \sqrt{2gh}$ $C = 0.60$ | | |
| h (DEPTH) | #2433 (SINGLE) | #2434 (DOUBLE) |
| 0.1 | 1.95 cfs | 3.89 cfs |
| 0.2 | 2.75 cfs | 5.50 cfs |
| 0.3 | 3.37 cfs | 6.74 cfs |
| 0.4 | 3.89 cfs | 7.78 cfs |
| 0.5 | 4.35 cfs | 8.70 cfs |
| 0.6 | 4.77 cfs | 9.53 cfs |
| 0.7 | 5.15 cfs | 10.30 cfs |
| 0.8 | 5.50 cfs | 11.01 cfs |
| 0.9 | 5.84 cfs | 11.67 cfs |
| 1.0 | 6.15 cfs | 12.30 cfs |

REVISED: 5-8-90 JNJ

DROP INLET DETAILS

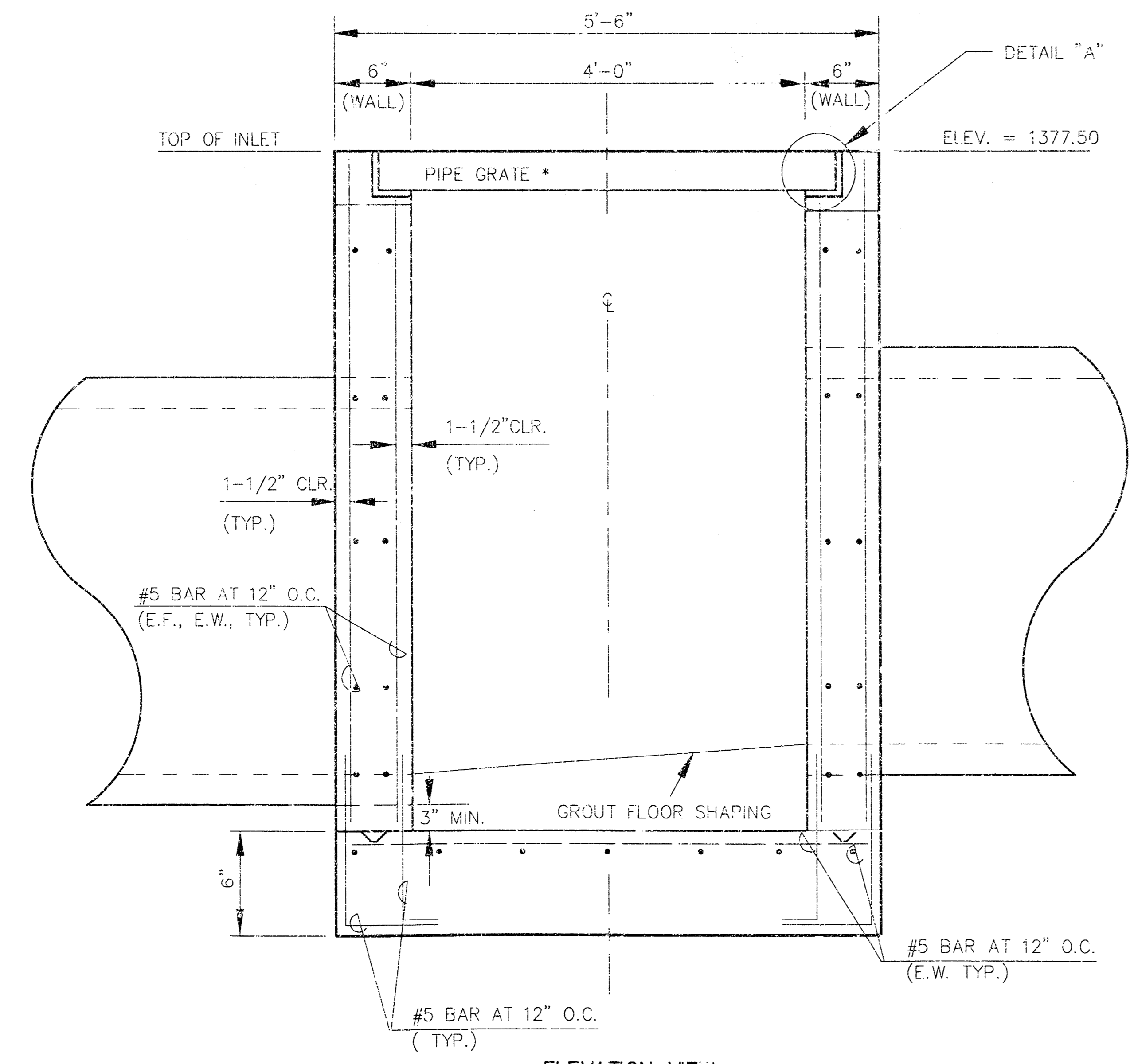
| CITY OF WICHITA, KANSAS | | | |
|-------------------------|------------|-----------------|---------------|
| Design | Checked by | Checked by | 39 |
| C.O.W. | | | |
| Drawn by | Date | Date: JUNE 2000 | Job No. 99197 |



1-1/2" STD. PIPE AT 4" O.C.
(TYP.) FABRICATED STEEL GRATING
SHALL BE GALVANIZED AS SPECIFIED
BY ASTM A-123.

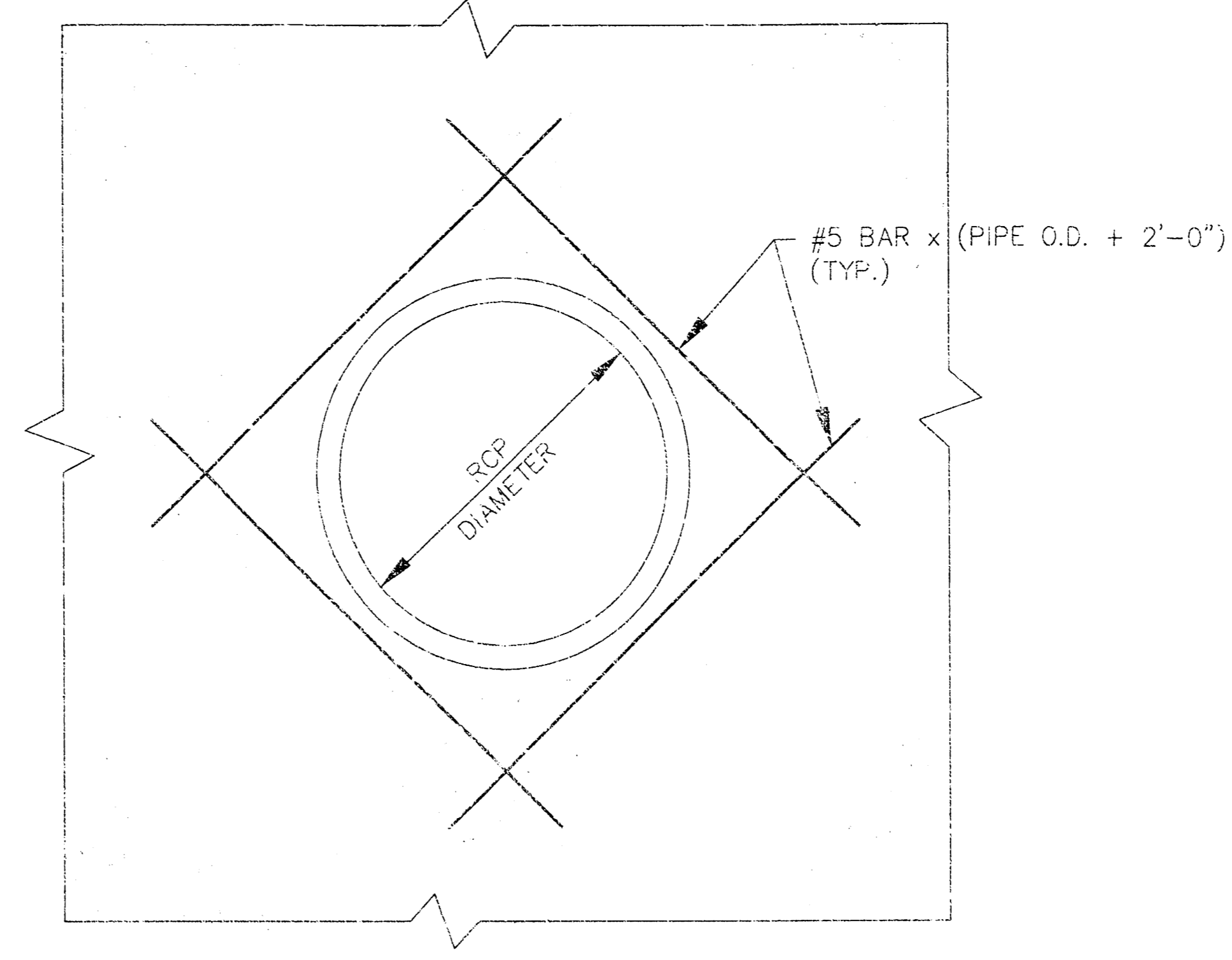
PLAN VIEW

CONTRACTOR MAY SUBSTITUTE 8" BRICK
WALL FOR 6" REINFORCED CONCRETE WALL.



ELEVATION VIEW

REINFORCED CONCRETE AREA INLET

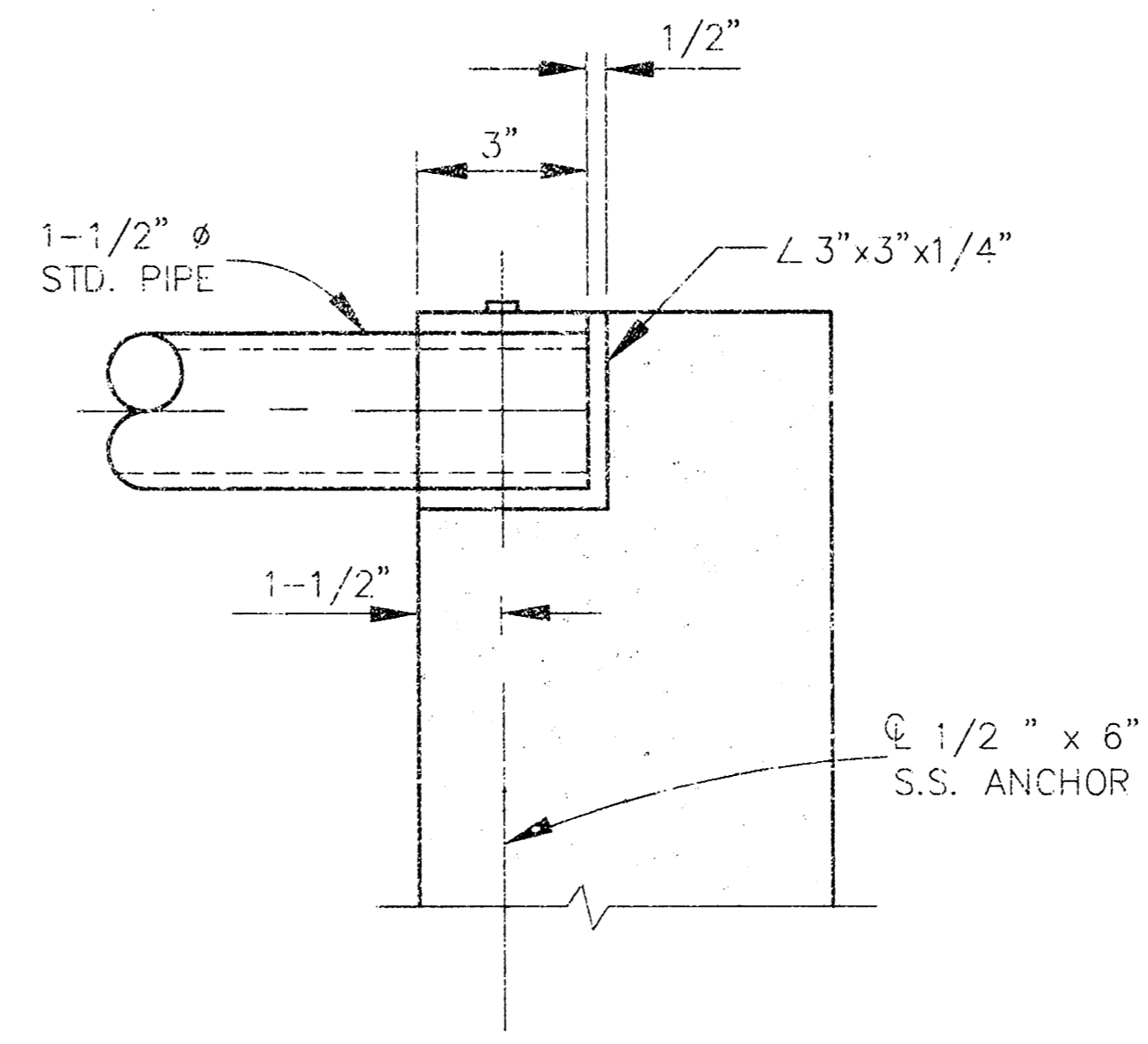


NOTE:
CUT REINFORCING AS REQUIRED TO CLEAR ROP.

TYPICAL REINFORCING AT PIPE

MATERIAL SPEC'S

- MORTAR - TYPE "M"
- BRICK - ASTM C62 GRADE MW
- STEEL - ASTM A36 OR EQUIVALENT
- GALV. - ASTM A-123 STDS.
- CONCRETE - $f'_c = 4,000$ PSI MINIMUM WITH
6 SACKS OF CEMENT PER
CUBIC YARD MINIMUM.



NOTE:
FABRICATED STEEL GRATING SHALL
BE GALVANIZED AS SPECIFIED BY
ASTM A-123.

DETAIL "A"

| ORIFICE EQUATION | | | | |
|----------------------------------|------|-----|-------|-----------|
| $Q = C \cdot A \cdot \sqrt{2gh}$ | | | | |
| h (DEPTH) | 2g | C | A | Q |
| 0.5 | 64.4 | 0.7 | 8.625 | 34.3 cfs |
| 1.0 | 64.4 | 0.6 | 8.625 | 41.5 cfs |
| 2.0 | 64.4 | 0.6 | 8.625 | 58.7 cfs |
| 2.0 | 64.4 | 0.7 | 8.625 | 68.5 cfs |
| 3.0 | 64.4 | 0.6 | 8.625 | 71.9 cfs |
| 4.0 | 64.4 | 0.6 | 8.625 | 83.1 cfs |
| 5.0 | 64.4 | 0.5 | 8.625 | 92.9 cfs |
| 6.0 | 64.4 | 0.6 | 8.625 | 101.7 cfs |
| 7.0 | 64.4 | 0.5 | 8.625 | 109.9 cfs |
| 8.0 | 64.4 | 0.6 | 8.625 | 117.5 cfs |

**MID-KANSAS ENGINEERING
CONSULTANTS, INC.**
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

CLUBHOUSE VILLAS
PROJECT NAME

REINFORCED CONCRETE AREA INLET
SHEET TITLE

MKEC
DESIGN BY:

MKEC
DRAWN BY:

MKEC
CHECKED BY:

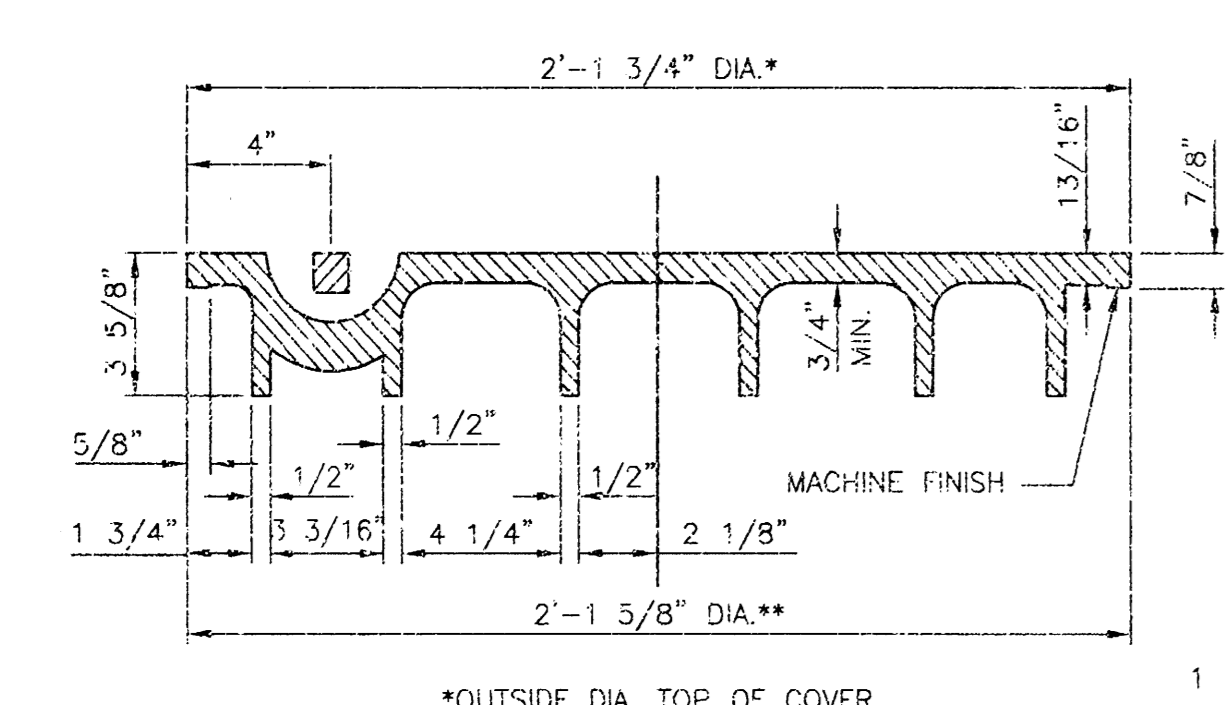
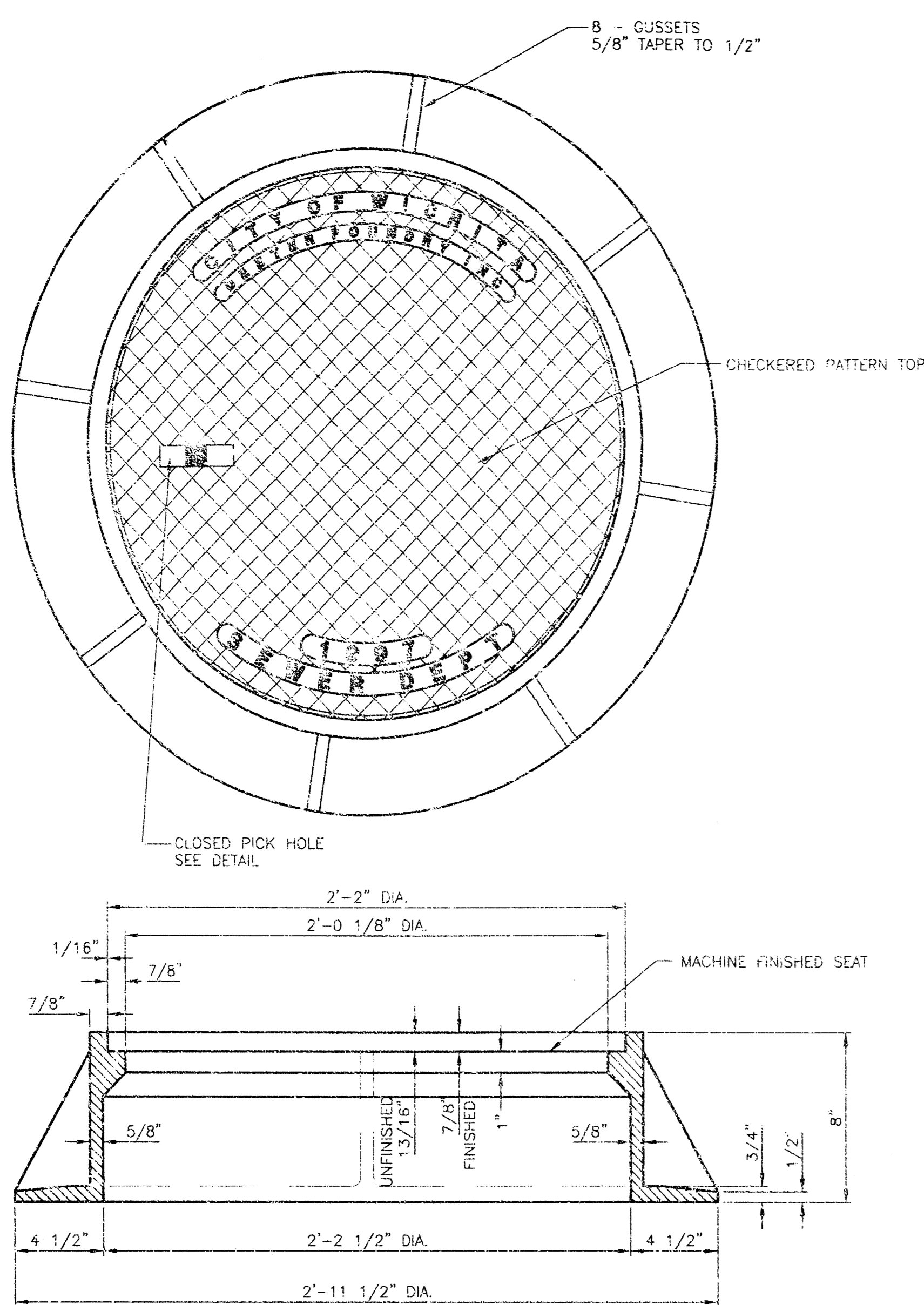
AUGUST 2000
DATE

99187DD4
JOB NO.

4 / 9
SHEET / OF

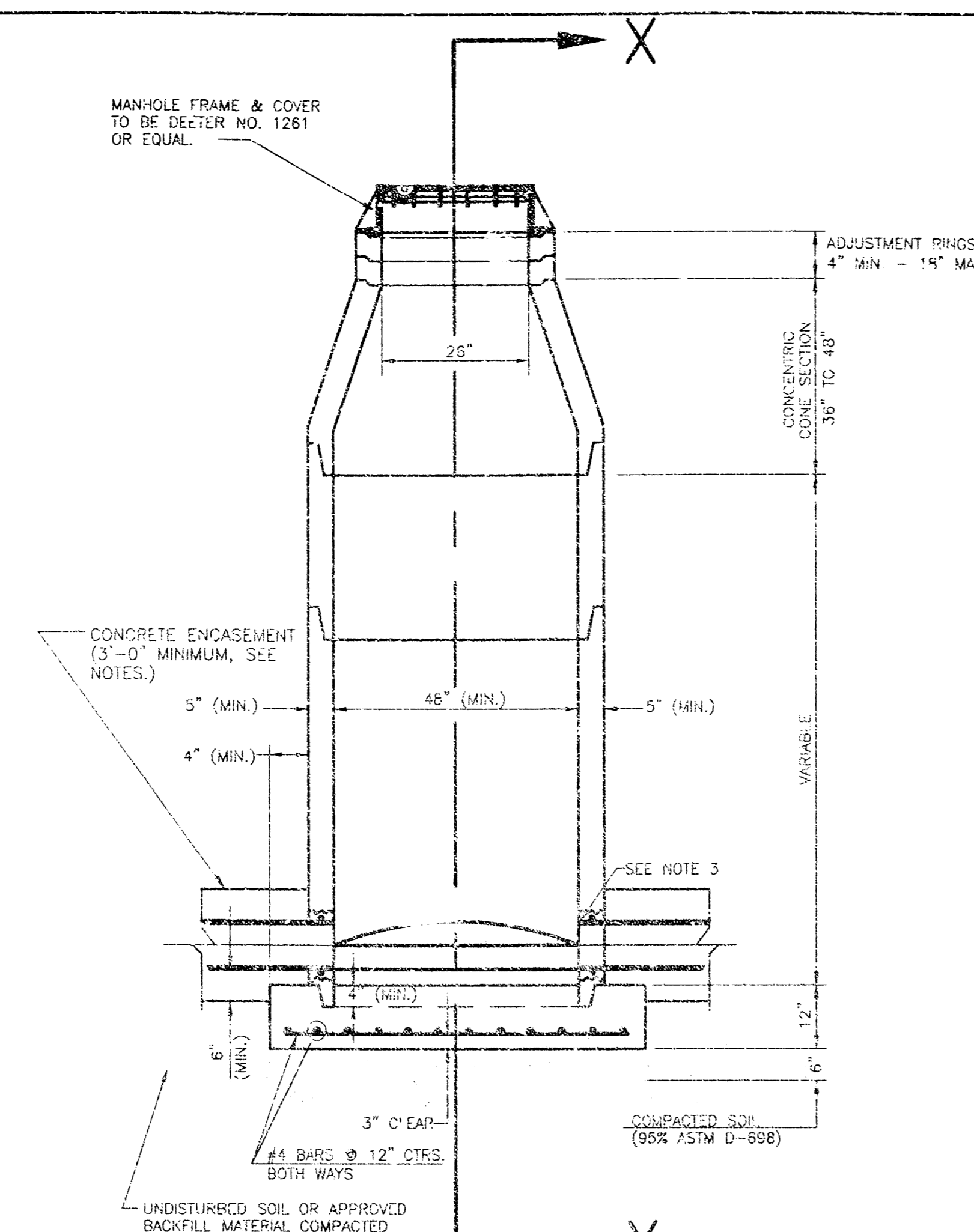
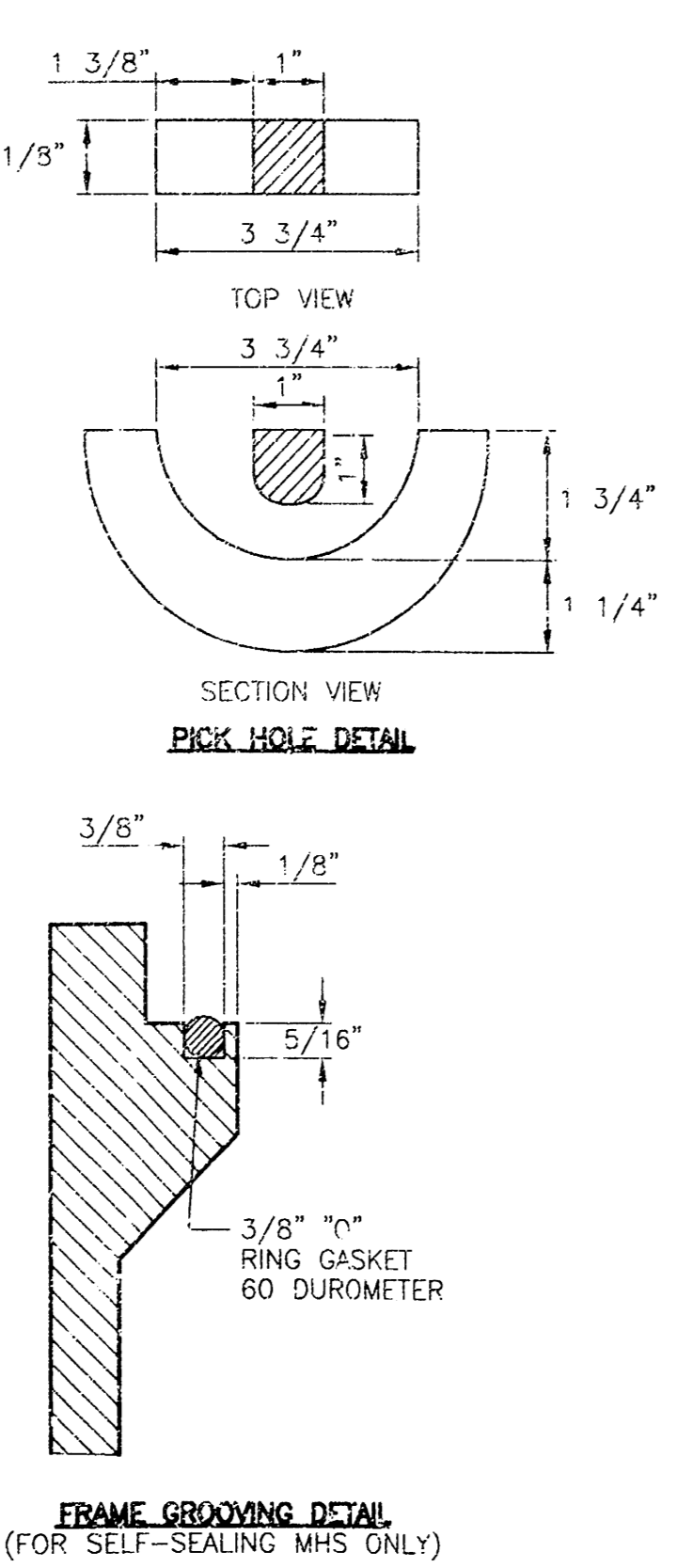
JUL 25 14:30 10 2000

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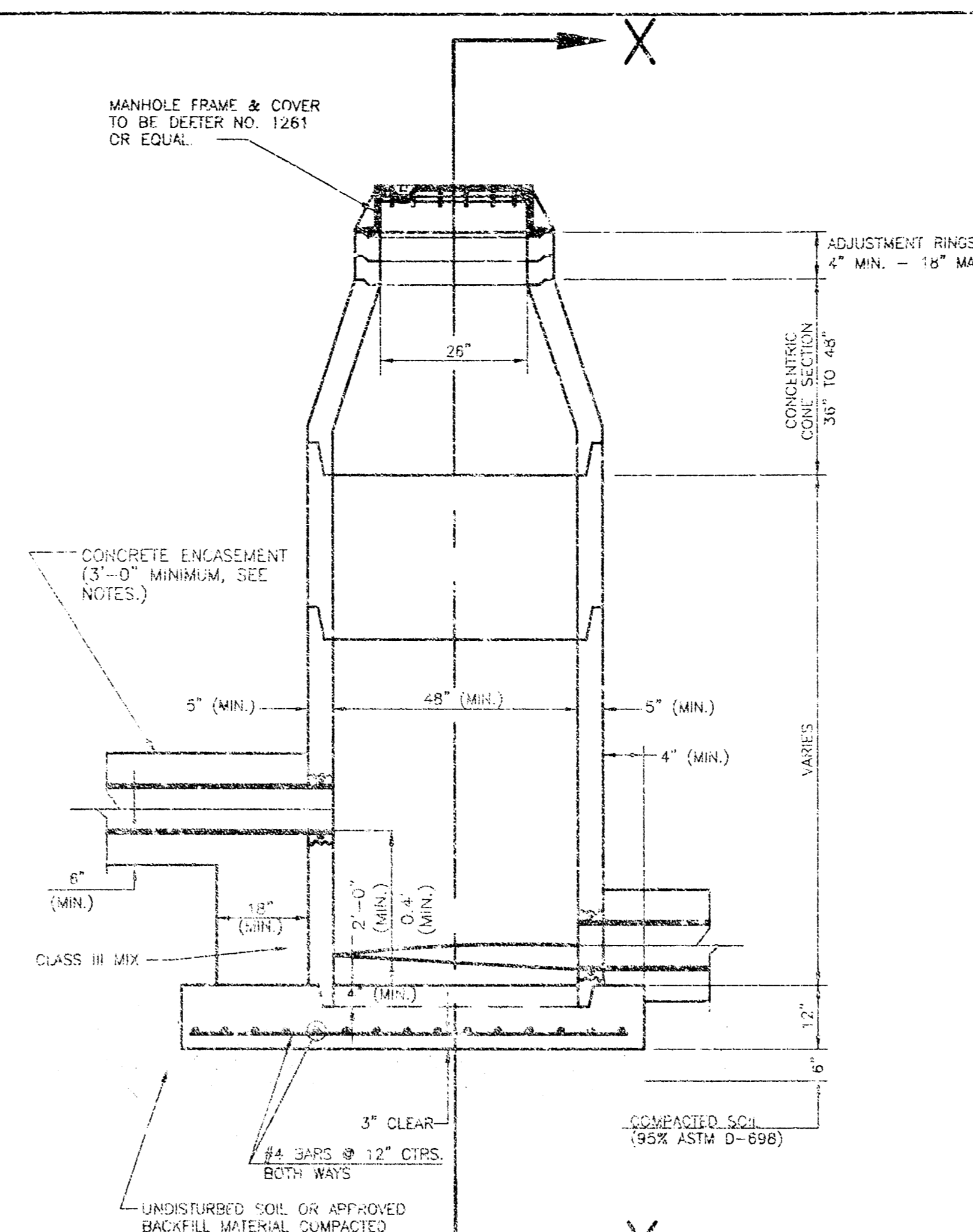


MANHOLE FRAME AND COVER
(TOTAL WEIGHT = 430 LBS.)

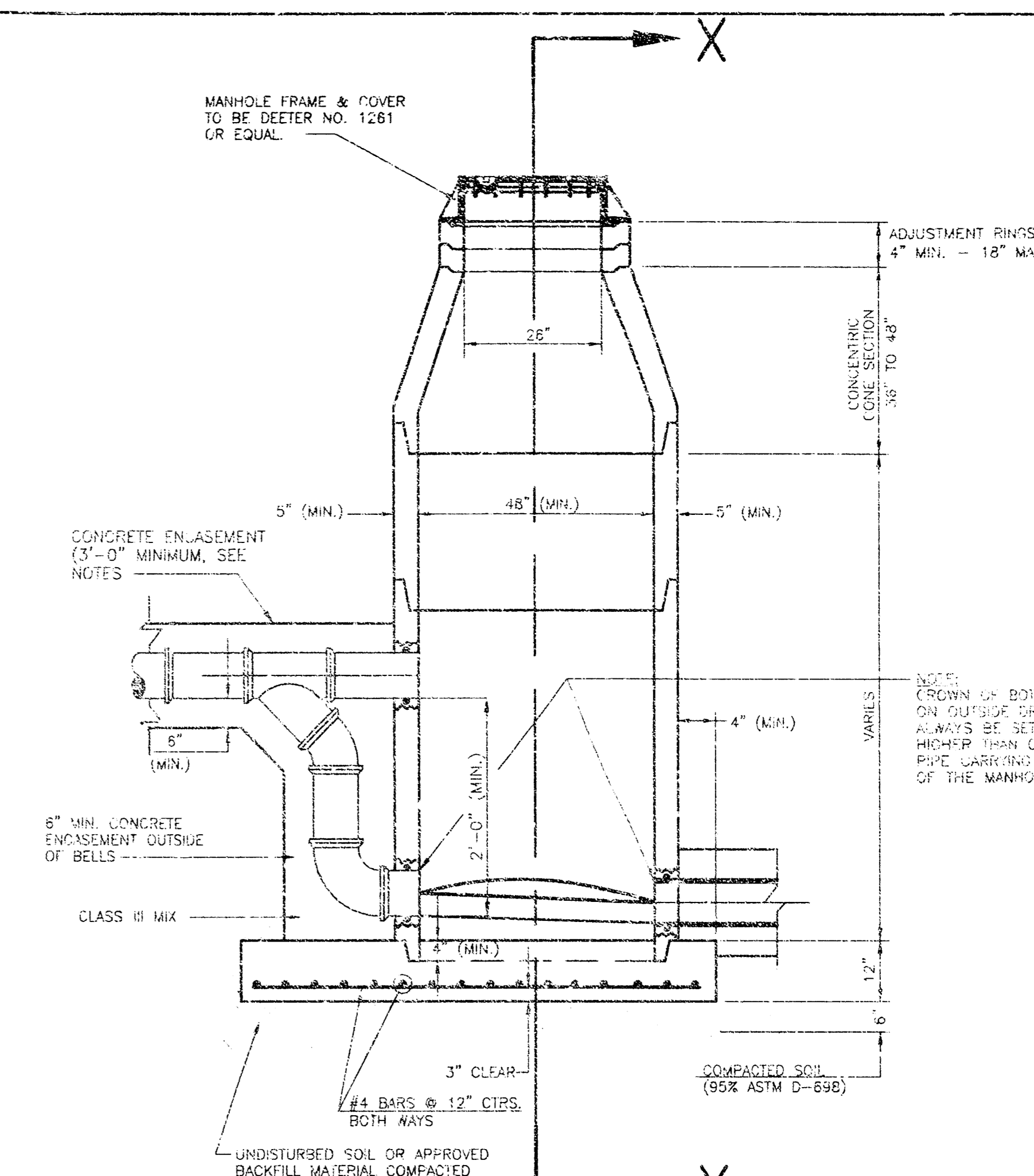
- MANHOLE FRAME AND COVER NOTES**
1. CAST IRON MANHOLE FRAME AND COVER SHALL CONFORM TO ASTM A-48, CLASS 30, OR BETTER.
 2. THE FRAMES AND COVERS SHALL BE OF A NONROCKING TYPE OR WITH MACHINED BEARING SURFACES SO FITTING PARTS WILL NOT RATTLE OR ROCK UNDER TRAFFIC.
 3. MANHOLE CASTINGS SHALL BE DEETER FOUNDRY INC. NO. 1261 OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED IN THE SPECIAL CONDITIONS. (MINIMUM WT. - 430 LBS.) ALL MANHOLE CASTINGS, REGARDLESS OF TYPE, SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR THE VARIOUS MANHOLE TYPES.
 4. GRIND ALL BURRS SMOOTH, CLEAN THOROUGHLY, THEN APPLY SHOP COAT OF ASPHALT BASE PAINT.
 5. 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.
 6. WHERE SELF-SEALING MANHOLE FRAMES ARE SPECIFIED ON THE PLANS, THE MANHOLE FRAME SHALL BE FURNISHED WITH AN APPROVED "O" RING GASKET GROOVED INTO THE BEARING SURFACE OF THE MANHOLE FRAME (FOR DETAILS). THE "O" RING GASKET SHALL NOT BE INSTALLED IN THE MANHOLE FRAME UNTIL AFTER FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT BY THE ENGINEER. THE CONTRACTOR SHALL SUPPLY TO THE OWNER ONE (1) REPLACEMENT "O" RING GASKET FOR EACH SELF-SEALING MANHOLE SPECIFIED.



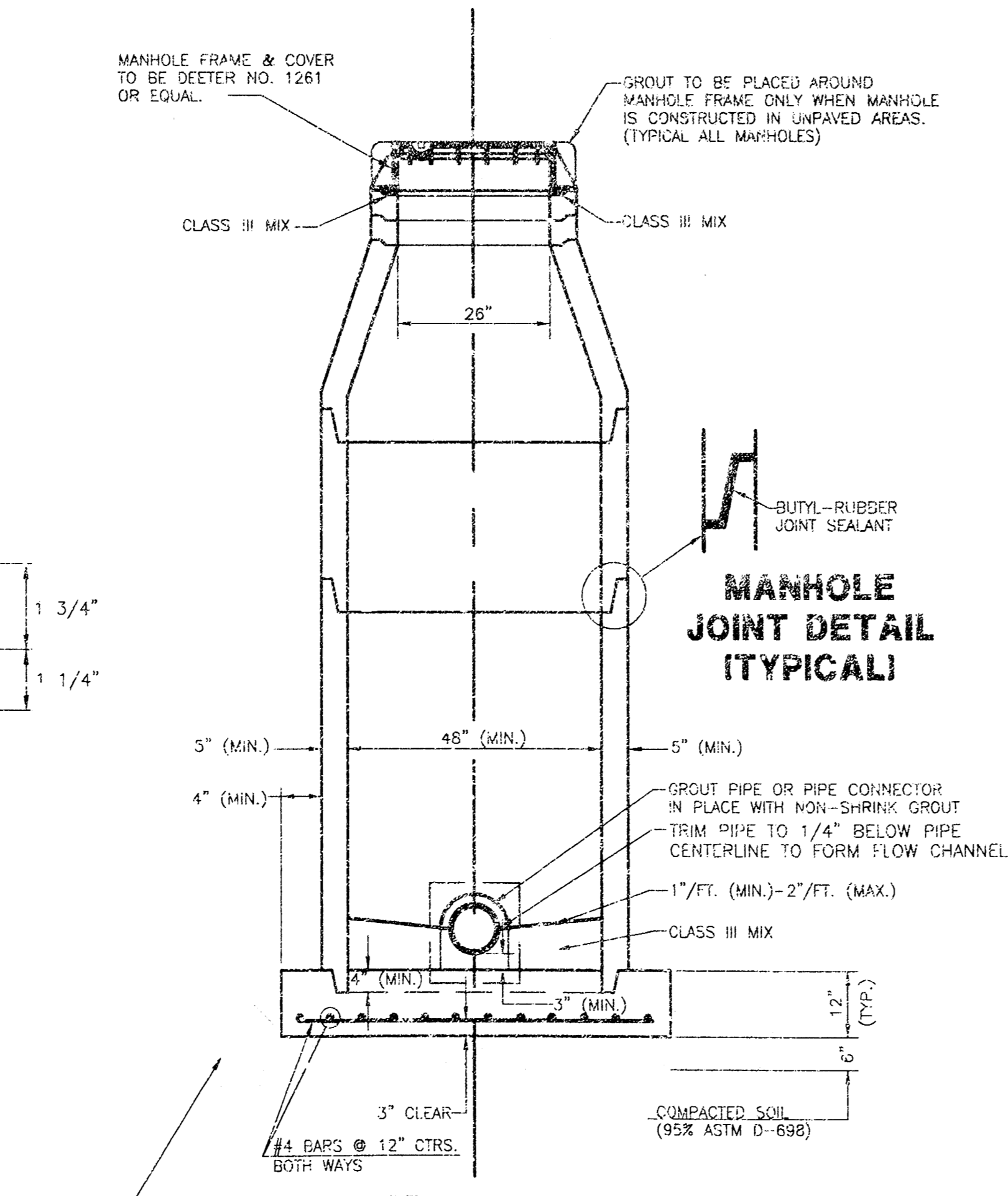
PRECAST STANDARD MANHOLE TYPE 'A'



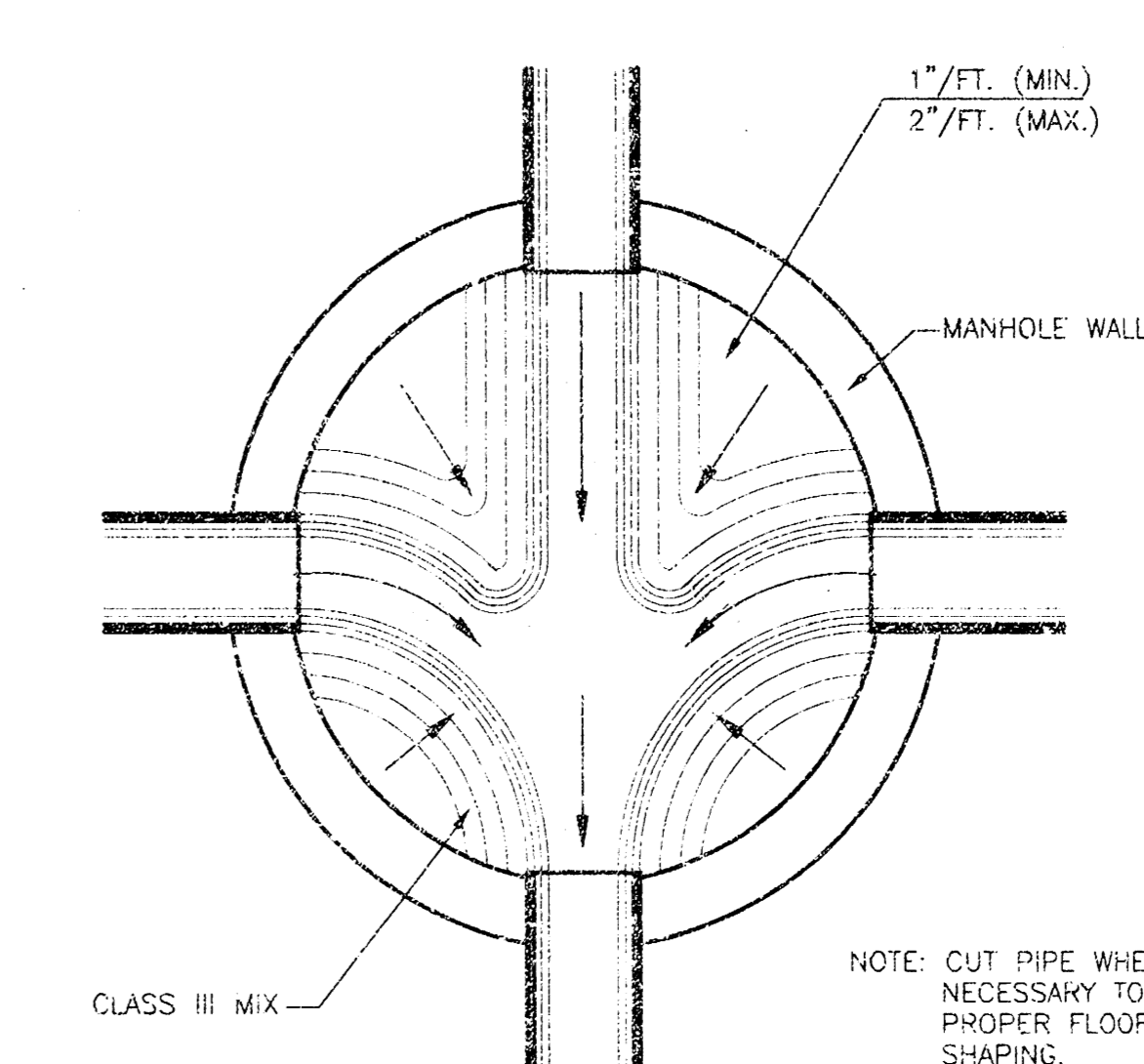
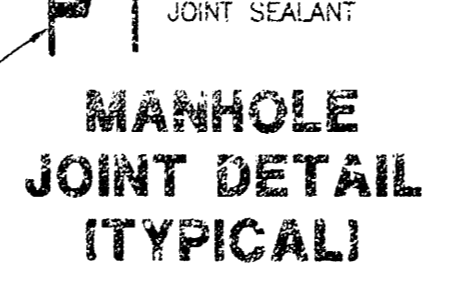
PRECAST INSIDE DROP MANHOLE TYPE 'B'



PRECAST OUTSIDE DROP MANHOLE TYPE 'C'



SECTION X (TYPICAL)



TYPICAL MANHOLE FLOOR SHAPING

- PRECAST MANHOLE NOTES**
1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
 2. STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
 3. APPROVED FLEXIBLE WATERSTOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM D-923 SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN PLASTIC PIPE IS USED. SEWER PIPE EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL.
 4. THE MANHOLE FRAME SHALL BE SEATED ON AN APPROVED BUTYL-RUBBER SEALANT TO PROVIDE A WATER-TIGHT SEAL BETWEEN THE MANHOLE ADJUSTMENT RING AND THE MANHOLE FRAME.
 5. GASKETED PIPE PLUGS AND CAPS SHALL BE PROVIDED BY THE PIPE SUPPLIER.
 6. ALL MANHOLE CONSTRUCTION SHALL BE "WATER TIGHT".
 7. TOP OF MANHOLE FLAT SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
 8. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478 AS MODIFIED BY THE SPECIFICATIONS.
 9. CONCRETE FOR MANHOLE BASES SHALL BE CLASS II AS DESCRIBED IN THE SPECIFICATIONS.
 10. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE.
 11. MANHOLES WITH PIPE SIZES 24\"/>

CLUBHOUSE VILLAS @ LEGACY PARK WILSON ESTATES ADDITION
PROJECT NAME

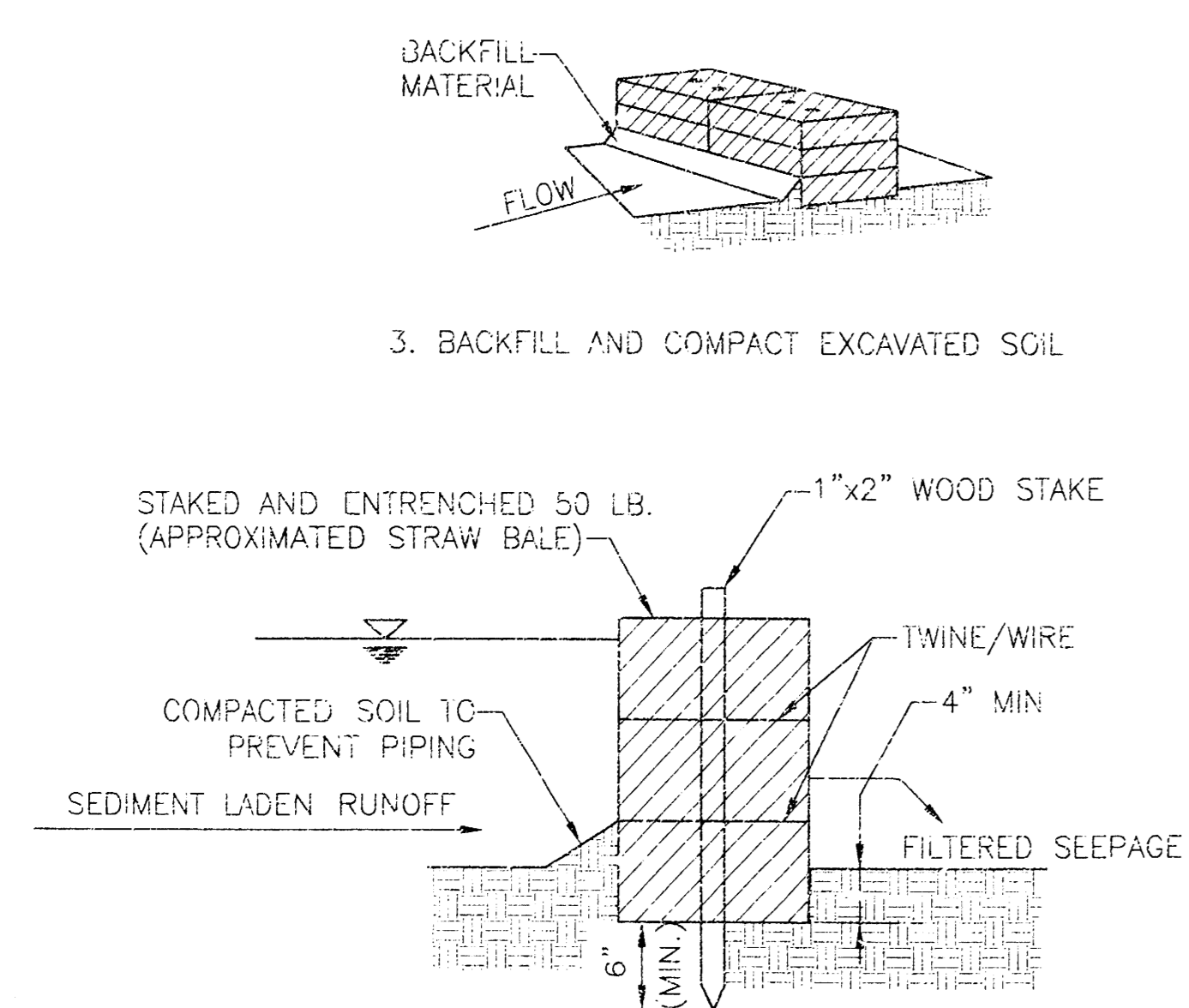
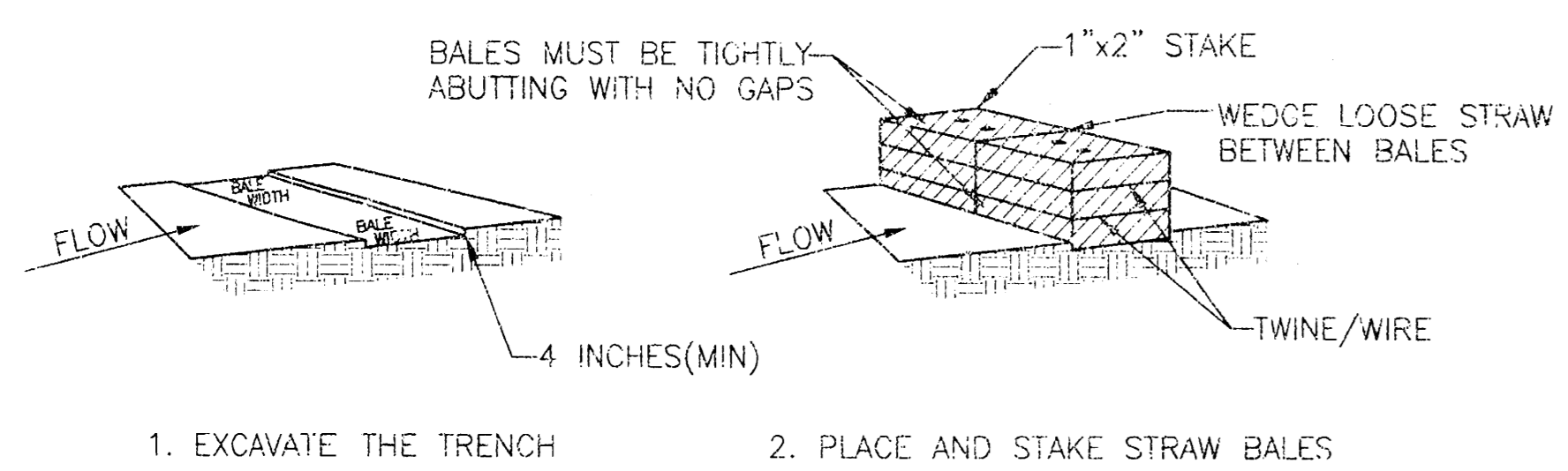
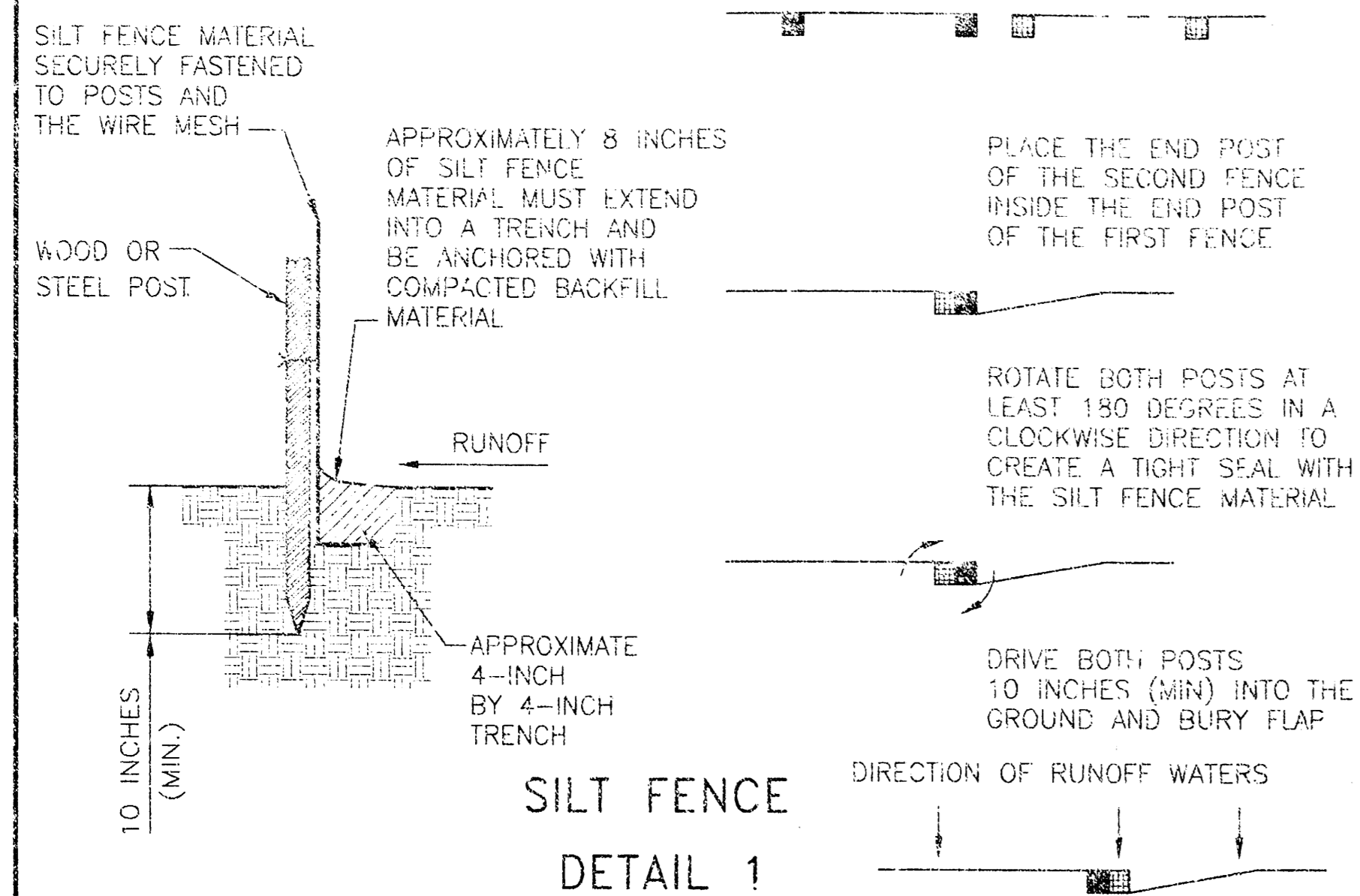
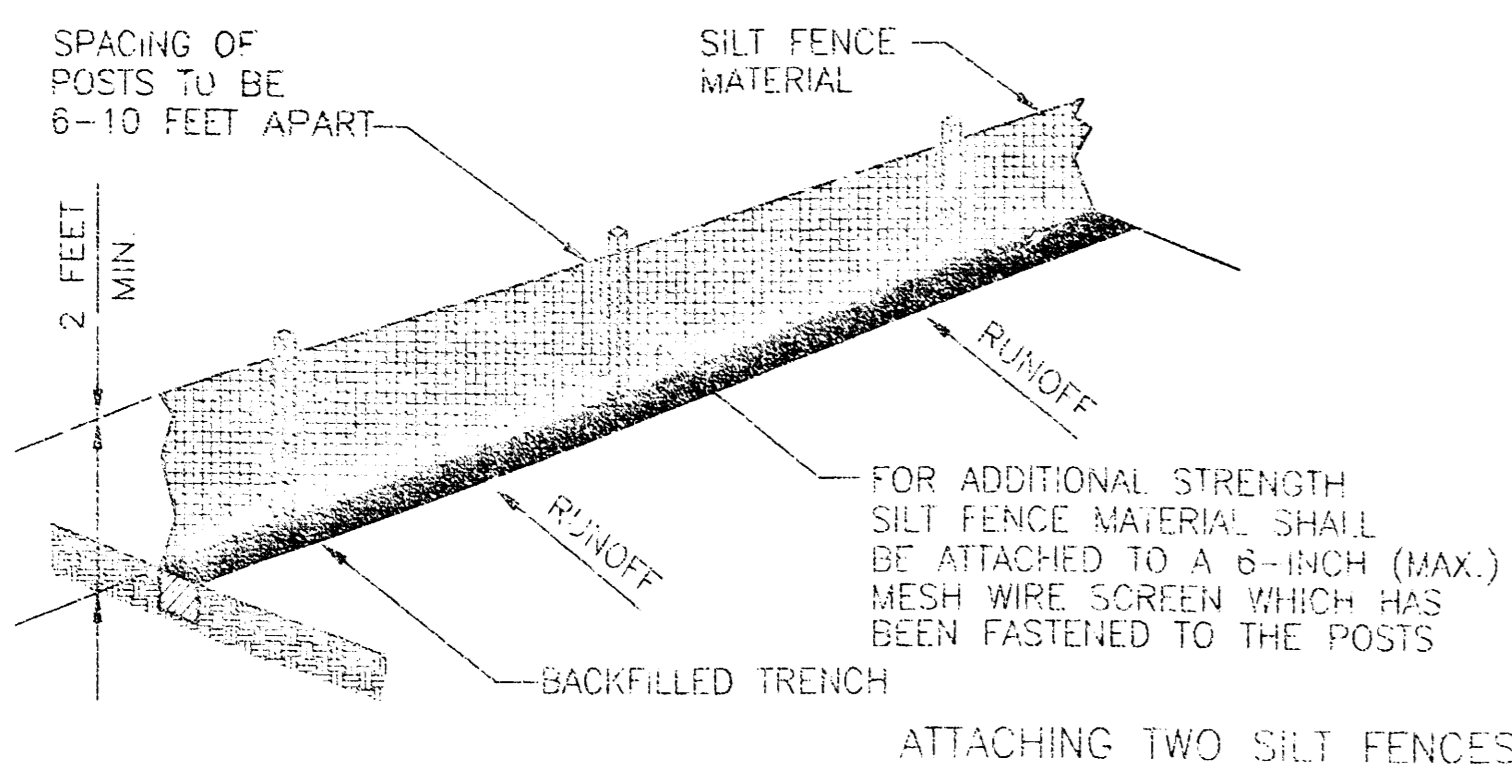
MANHOLE DETAILS
SHEET TITLE

MID-KANSAS ENGINEERING CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

| | | |
|---------------------|-------------------|---------------------|
| MKEC DESIGN BY: | MKEC DRAWN BY: | MKEC CHECKED BY: |
| AUGUST 2000 DATE | 99187 JOB NO. | 5 / 9 SHEET/OF |

SILT FENCE MATERIAL SPECIFICATIONS

GRAB TENSILE STRENGTH 100 LBS. MIN. (ASTM D4632)
 MULLEN BURST STRENGTH 300 PSI MIN (ASTM D3786)
 TRAPEZOID TEAR STRENGTH 60 LBS. MIN (ASTM D4533)
 WATER FLOW RATE 20 GAL./MIN./SQ.FT. MIN. (ASTM D4491)
 UV STABILITY 70% MIN. (ASTM D3555)



CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE
 STRAW BALE DIKES FOR DRAINAGE CHANNELS
 DETAIL 2

SILT FENCE INSTALLATION

SILT FENCES CAN MINIMIZE SEDIMENT FROM ENTERING STREAMS AND OTHER WATER BODIES. IN ADDITION, THEY SHOULD BE INSTALLED WHERE SEDIMENT FROM SHEET FLOW OR RILL AND GULLY EROSION WILL ENTER DIRECTLY ONTO ADJACENT LANDS.

WHEN USED TO CONTROL SEDIMENT FROM STEEP SLOPES, FILTER FENCES SHOULD BE PLACED AWAY FROM THE TOE OF A SLOPE FOR INCREASED HOLDING CAPACITY.

WHEN INSTALLING, IT IS IMPORTANT THE FABRIC MATERIAL BE ANCHORED INTO A TRENCH AND BACK FILLED.

ATTACHING TWO FILTER FENCES TOGETHER SHOULD BE COMPLETED IN A MANNER ILLUSTRATED IN DETAIL #1. BY WRAPPING THE MATERIAL AS ILLUSTRATED, A TIGHT FIT OF MATERIAL IS CREATED AND THE STRUCTURAL STABILITY OF THE FENCE MAINTAINED.

MAINTENANCE OF SILT FENCES REQUIRES THAT THE FABRIC MUST BE INSPECTED AND NEEDED REPAIRS IMPLEMENTED AFTER EVERY STORM EVENT. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN MATERIAL REACHES A DEPTH OF ONE-HALF THE FENCE HEIGHT.

GRAVEL FILTERS FOR AREA INLETS

ALL STORM DRAINAGE SYSTEM INLETS SHOULD HAVE FILTERS INSTALLED TO TREAT RUNOFF BEFORE WATER IS DISCHARGED INTO A STREAM.

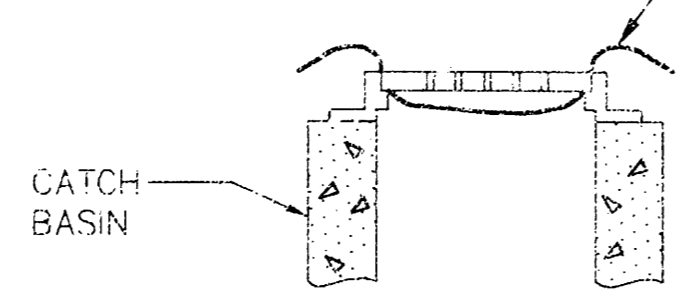
GRAVEL FILTERS CAN BE CONSTRUCTED WITH A COMBINATION OF CONCRETE BLOCKS, 1/2-INCH WIRE SCREEN AND COARSE (APPROX. 3/4-INCH DIAMETER) GRAVEL. AN ALTERNATIVE INSTALLATION CAN BE USE OF GRAVEL BAGS. USE OF GRAVEL SMALLER THAN 3/4-INCHES MAY RESULT IN CLOGGING OF PORES AND REDUCE THE AMOUNT OF WATER FLOWING INTO AN INLET.

GRAVEL FILTERS CAN BE USED IF THE IMMEDIATE AND ADJACENT AREA TO THE DRAIN CONSISTS OF SOIL OR PAVEMENT.

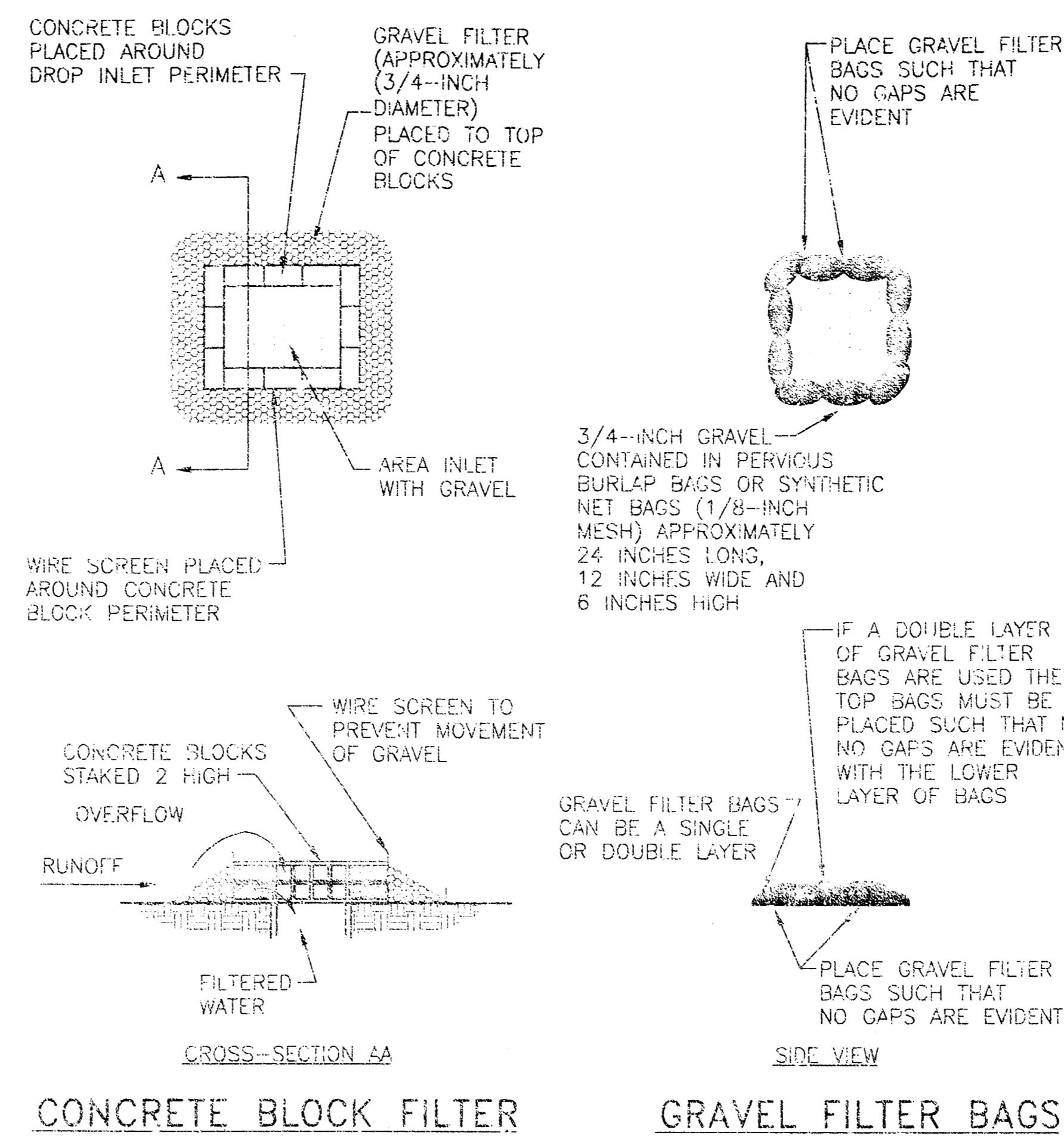
ALL GRAVEL FILTERS INSTALLED AROUND AREA DRAINS SHOULD BE INSPECTED AND REPAIRED AFTER EACH RUNOFF EVENT. SEDIMENT SHOULD BE REMOVED WHEN MATERIAL IS WITHIN TWO INCHES OF THE TOP OF THE FILTER. PERIODICALLY, THE GRAVEL SHOULD BE RAKED TO INCREASE INFILTRATION AND FILTERING OF RUNOFF WATER.

SEDIMENT SHOULD BE REMOVED IMMEDIATELY FROM ANY TRAVELED WAY OF ROADS AND STREETS.

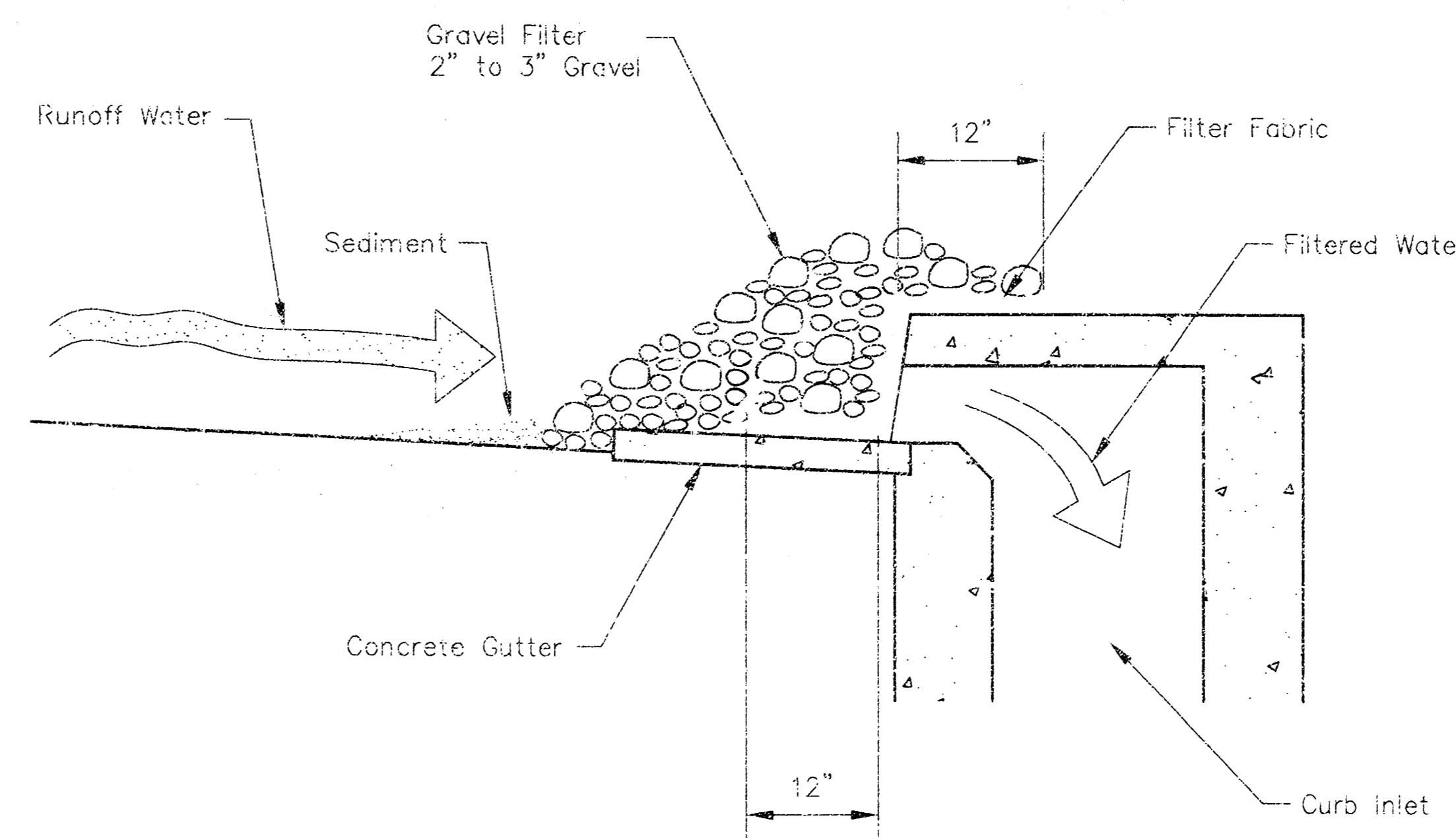
PLACE FILTER FABRIC UNDER GRATE LEAVING 6" EXCESS IN ALL DIRECTIONS



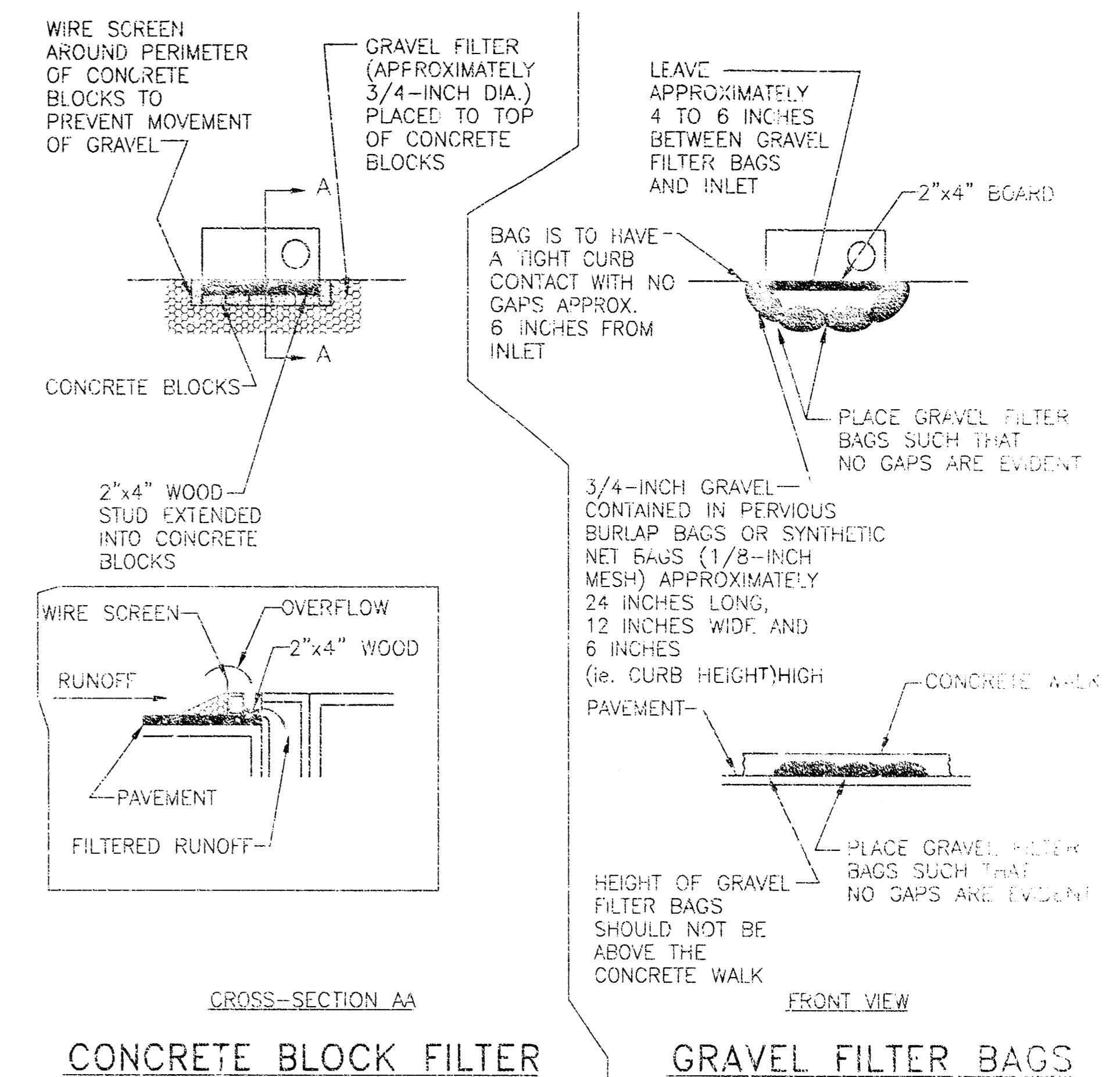
ALTERNATIVE FILTER FOR AREA INLET
 DETAIL 4



NOTE: GRAVEL FILTERS MAY BE USED ON PAVEMENT OR BARE GROUND
 GRAVEL FILTER FOR AREA INLET
 DETAIL 3



ALTERNATIVE CURB INLET GRAVEL FILTER
 DETAIL 6



NOTE: GRAVEL FILTERS MAY BE USED ON PAVEMENT OR BARE GROUND
 CURB INLET GRAVEL FILTER
 DETAIL 5

CURB INLET GRAVEL FILTERS

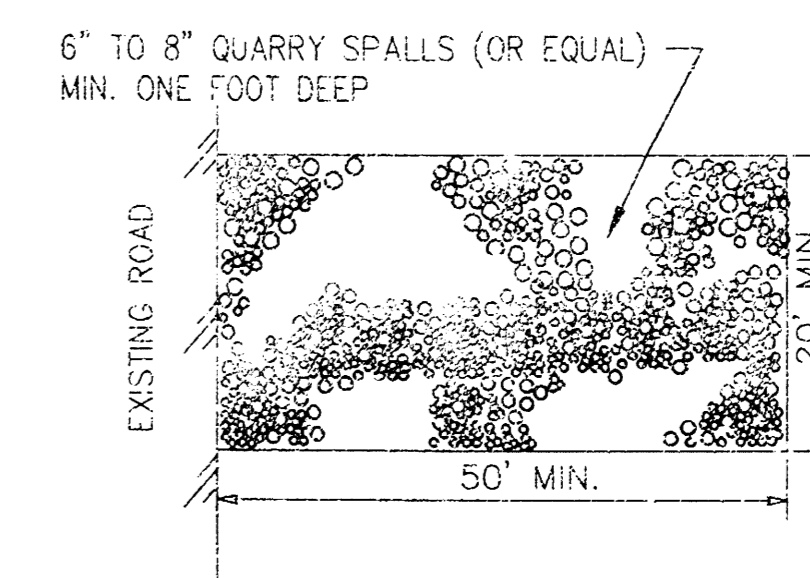
ALL STORM DRAINAGE SYSTEM INLETS SHOULD HAVE FILTERS INSTALLED TO TREAT RUNOFF BEFORE WATER IS DISCHARGED INTO A STREAM.

CURB INLET GRAVEL FILTERS CAN BE CONSTRUCTED WITH A COMBINATION OF CONCRETE BLOCKS, 1/2-INCH WIRE SCREEN, COARSE (APPROX. 3/4-INCH DIAMETER) GRAVEL AND A 2"x4" WOOD BOARD FOR SUPPORT. AN ALTERNATIVE INSTALLATION CAN USE GRAVEL BAGS (NOT IMPERVIOUS SAND BAGS). USE OF GRAVEL SMALLER THAN 3/4 INCHES MAY RESULT IN CLOGGING OF PORES AND REDUCE THE AMOUNT OF WATER FLOWING INTO AN INLET.

GRAVEL FILTERS CAN BE USED IF THE IMMEDIATE AND ADJACENT AREA TO THE DRAIN CONSISTS OF SOIL OR PAVEMENT.

ALL CURB INLET GRAVEL FILTERS SHOULD BE INSPECTED AND REPAIRED AFTER EACH RUNOFF EVENT. SEDIMENT SHOULD BE REMOVED WHEN MATERIAL IS WITHIN TWO INCHES OF THE TOP OF THE FILTER. PERIODICALLY, THE GRAVEL SHOULD BE RAKED TO INCREASE INFILTRATION AND FILTERING OF RUNOFF WATERS.

SEDIMENT SHOULD BE REMOVED IMMEDIATELY FROM ANY TRAVELED WAY OF ROADS AND STREETS.



TEMPORARY CONSTRUCTION ENTRANCE/WASH DOWN PAD
 DETAIL 7

CLUBHOUSE VILLAS
 PROJECT NAME
EROSION CONTROL DETAILS
 DESIGN TITLE

JTC DESIGN | DAC DRAWN BY
 GJA | AUGUST 2000
 CHECKED BY: DATE

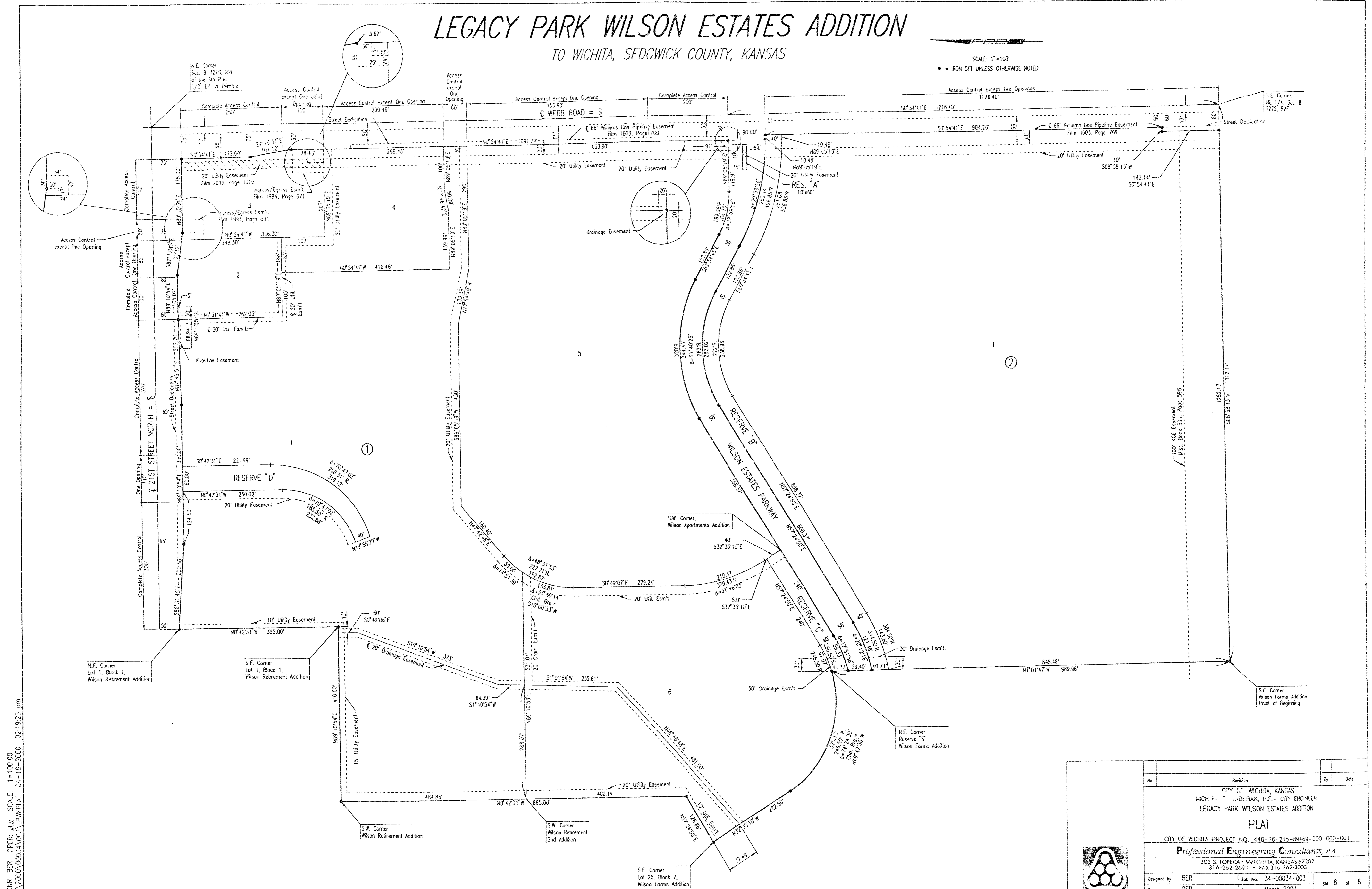
99187 JOB NO. | 6 / 9 SHEET / 10

M.K.E.C.
 411 N. WEBB ROAD
 WICHITA, KS. 67205
 316-684-9600

LEGACY PARK WILSON ESTATES ADDITION

TO WICHITA, SEDGWICK COUNTY, KANSAS

SCALE: 1"=100'
 • = IRON SET UNLESS OTHERWISE NOTED



DNR: BER OFER JLM SCALE: 1"=100.00
 Q:\2000\00034\003\PLAT\PLAT_34-18-2000_02:19:25.plm

| | | | |
|---|----------|---------|--------------|
| No. | Revision | By | Date |
| | | | |
| CITY OF WICHITA, KANSAS WICHITA, KANSAS LEGACY PARK WILSON ESTATES ADDITION PLAT CITY OF WICHITA PROJECT NO. 448-76-245-89469-000-000-001 Professional Engineering Consultants, P.A. 303 S. TOPEKA - WICHITA, KANSAS 67202 316-262-2601 • FAX 316-262-3003 | | | |
| Designed by | BER | Job No. | 34-00034-003 |
| Drawn by | DEP | Date | March 2000 |
| | | Sheet | 8 of 8 |