

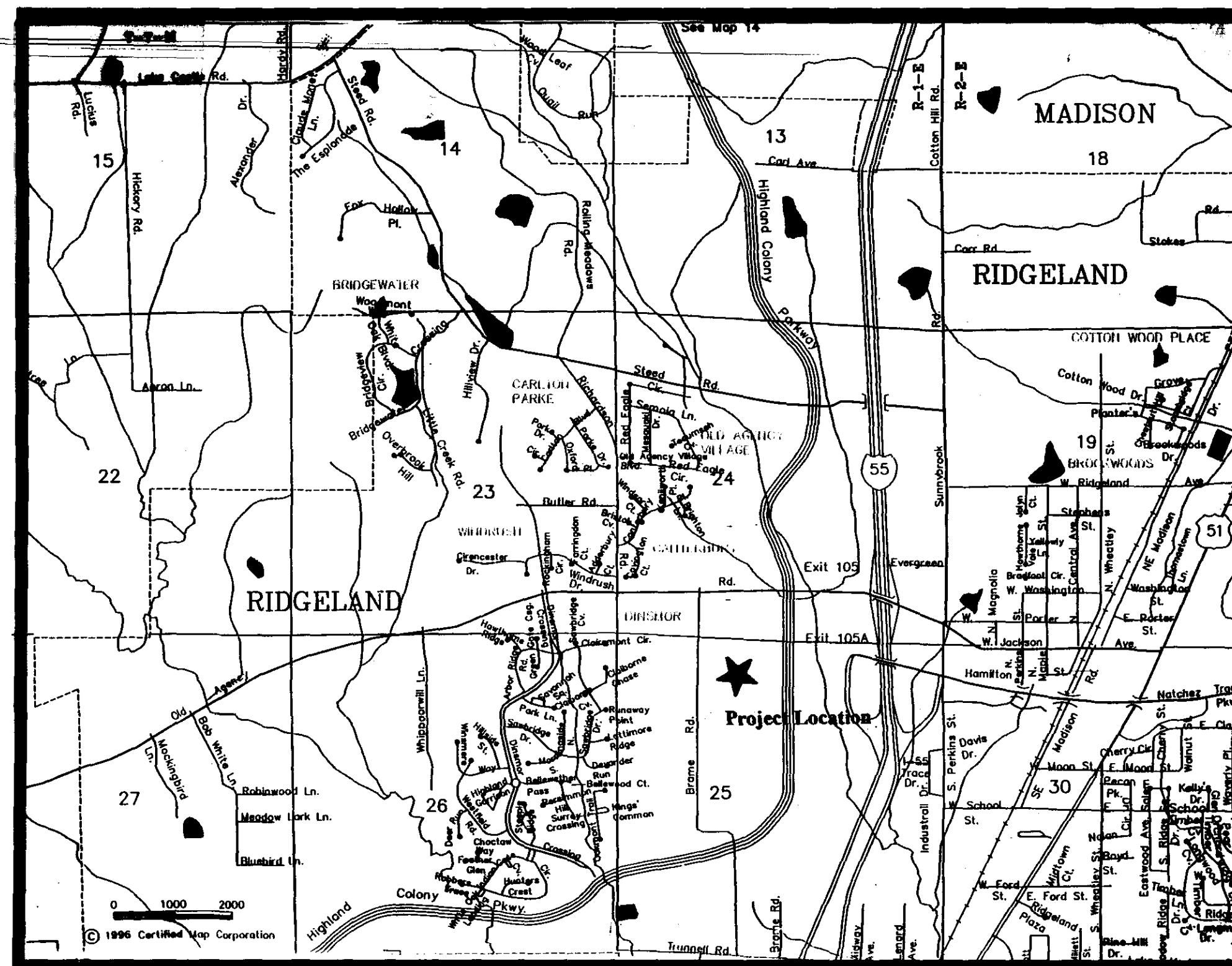
CONSTRUCTION PLANS FOR:
TRACE COLONY PARK

STREET, DRAINAGE, MAJOR UTILITIES
 CITY OF RIDGELAND,
 MADISON COUNTY, MISSISSIPPI

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NORTH



LOCATION MAP

PREPARED BY:



GUEST CONSULTANTS, INC.

CONSULTING ENGINEERS & LAND SURVEYORS

TWENTY SIX EASTGATE DRIVE • P.O. BOX 1225 • BRANDON, MS 39043

TELEPHONE (601) 825-8341

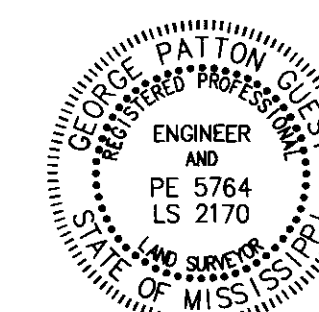
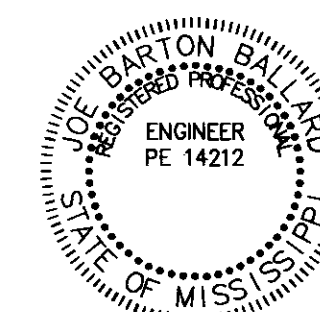
EMAIL: guestcon@bellsouth.net

OCTOBER, 2001

DEVELOPER:

TRACE COLONY PARK, LLC

113 VILLAGE BLVD., SUITE C
 MADISON, MISSISSIPPI 39110



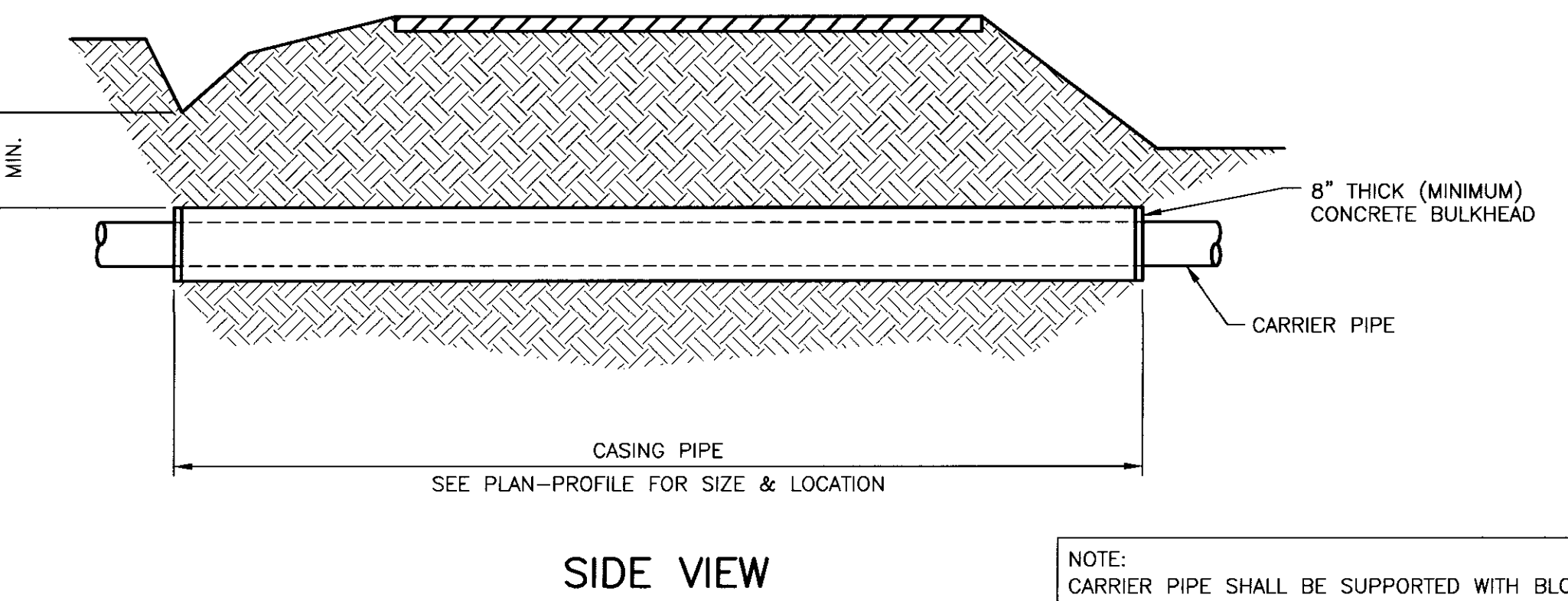
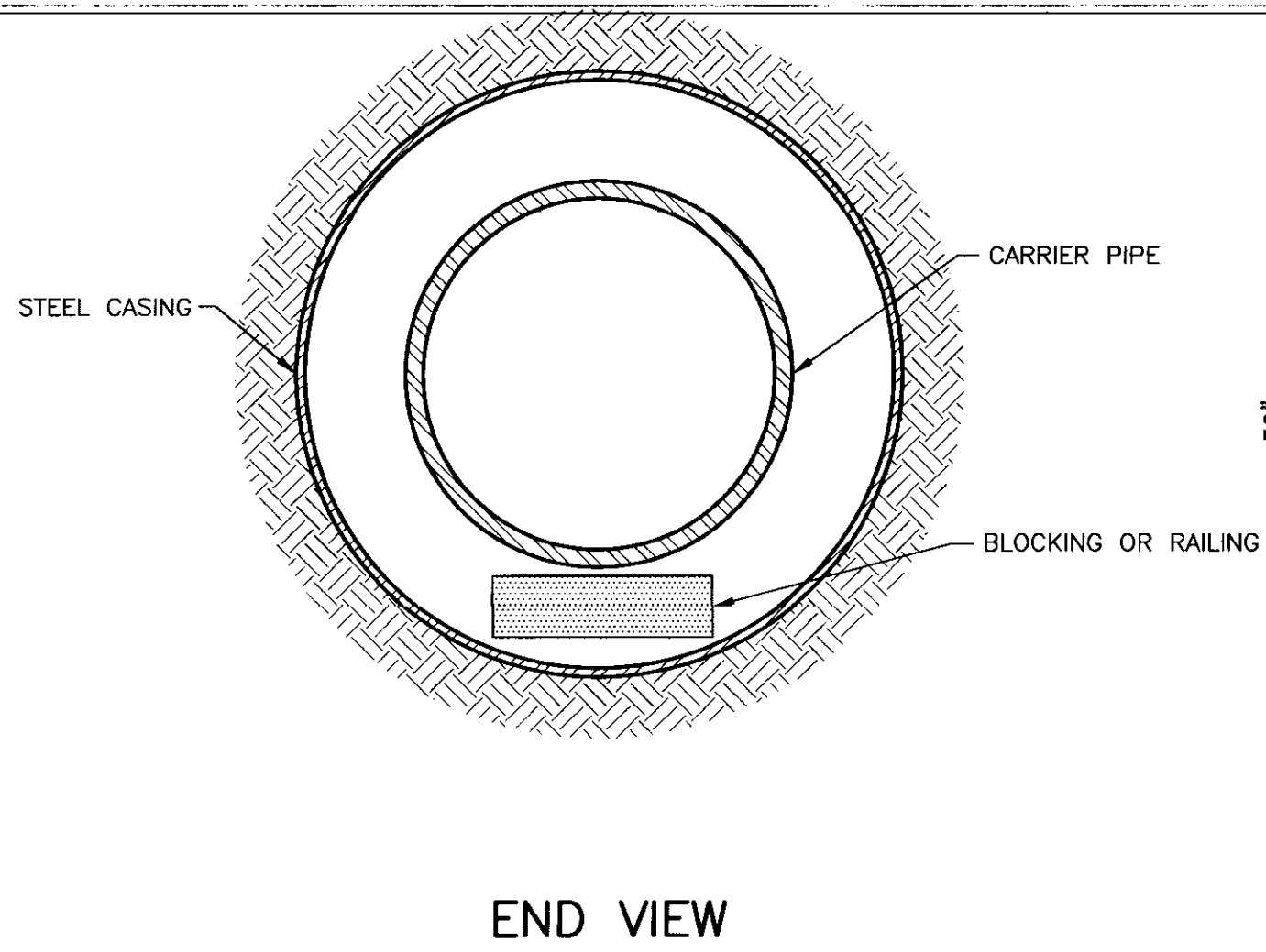
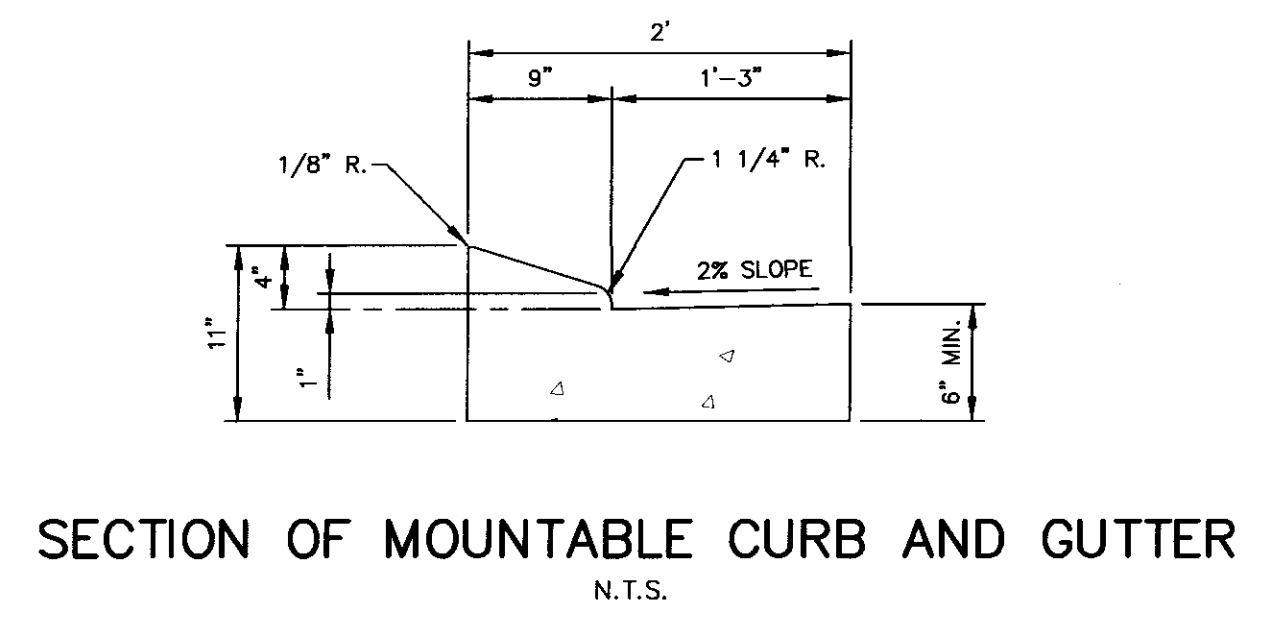
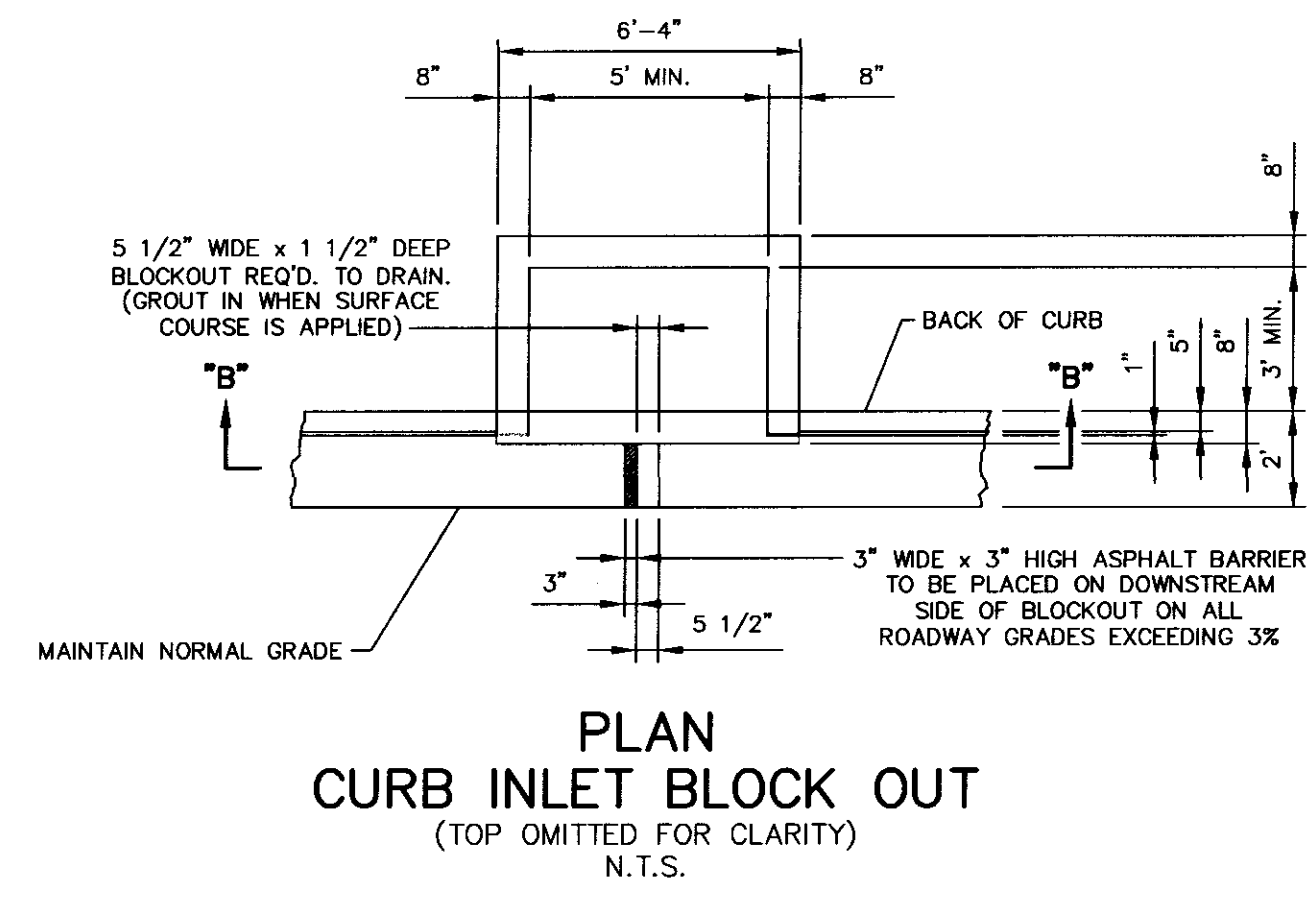
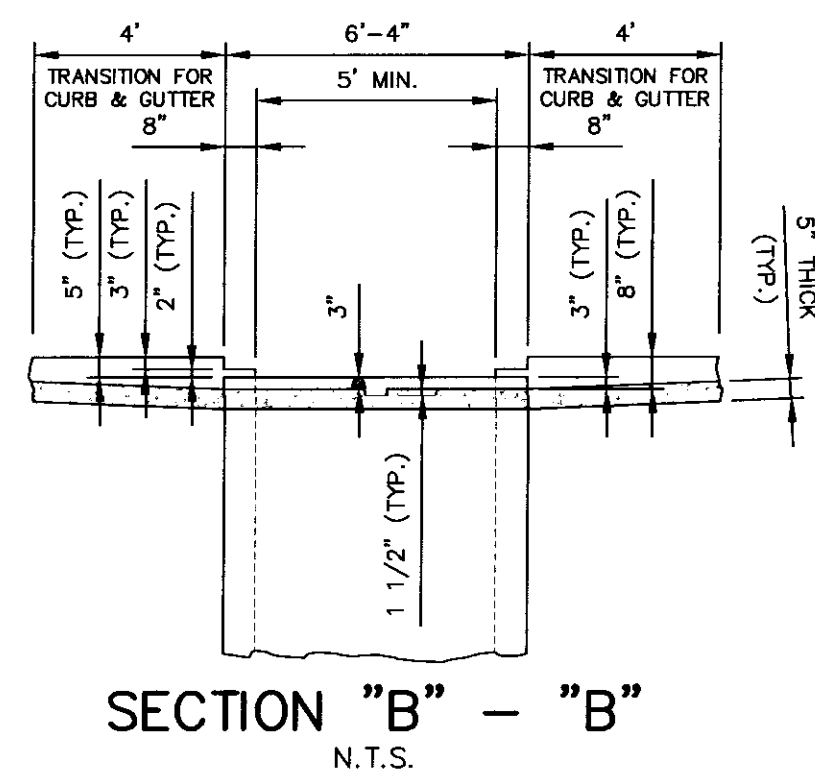
Technical specifications for street and storm sewer construction for this project shall be the Construction details (Technical Specifications) of the Mississippi Standard Specifications for State Aid Road and Bridge Construction, 1989 Edition.

Equipment, Materials and Construction of Water Distribution System and Sanitary Sewer System shall conform to "UTILITY AND STREET CONSTRUCTION FOR TRACE COLONY PARK" A Separate Bound set of specifications by GUEST CONSULTANTS, INC.

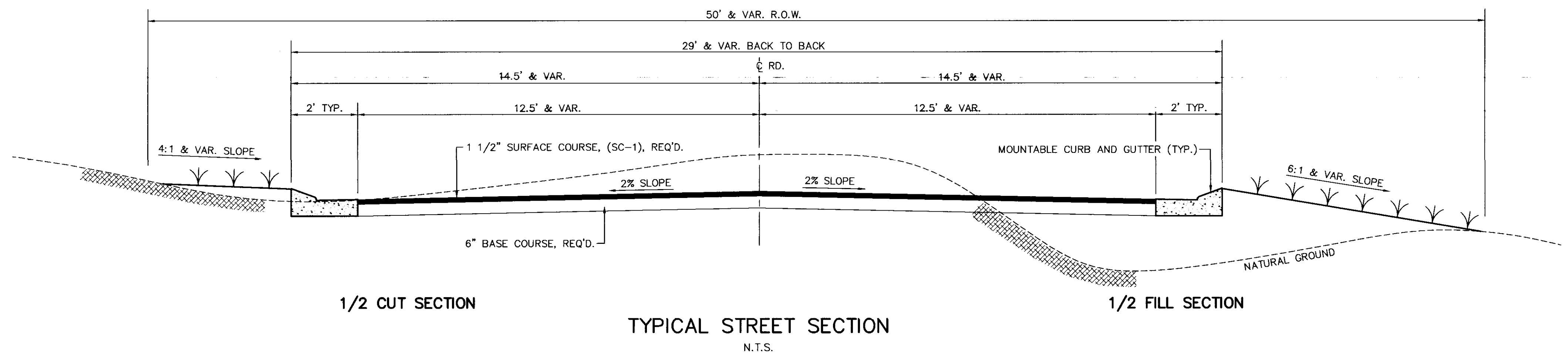
If during construction the Engineer finds it necessary to change the lines, dimensions, thickness, grades, slopes, sections or quantities or if such changes are ordered for any other reason; the final quantities will be recomputed based on the plan changes, as a result of authorized changes.

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PWP-02017

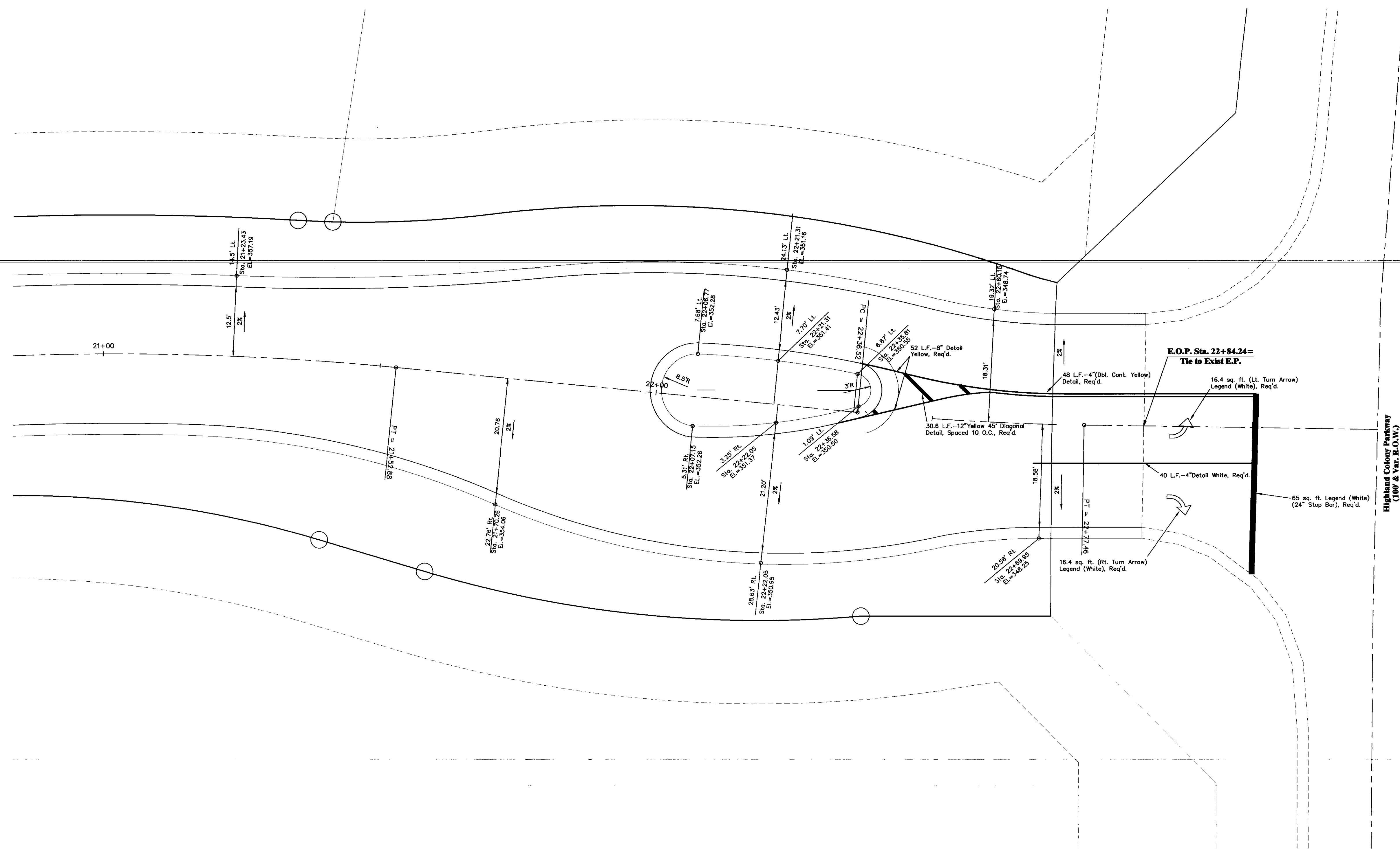


TYPICAL BORE SECTION
N.T.S.

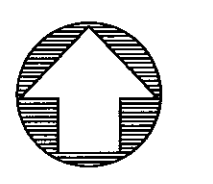


TYPICAL STREET SECTION
N.T.S.

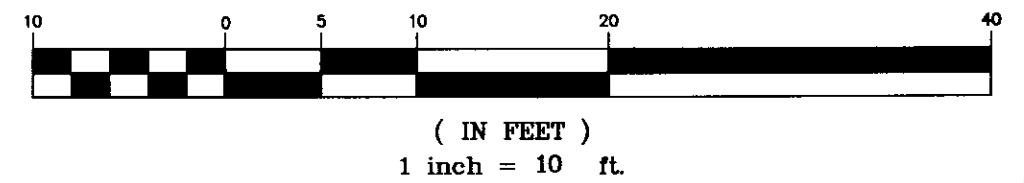
- GENERAL NOTES:**
- All excess excavation shall be placed evenly on adjoining property as directed by the Engineer. All material shall be properly processed and spread in maximum of 6" to 8" lifts and compacted to 95% Standard Proctor Density.
 - Prior to placement of asphalt base, density tests shall be performed by a licensed soil laboratory at the contractor's expense.
 - Underground improvements shown in these plans are determined from subgrade evidence and maps obtained from various entities. No excavation was performed. Users of these plans should satisfy themselves as to whether the information shown hereon is correct and complete. Connections to existing water and sewer lines shall be coordinated with the Public Works Director for the City of Ridgeland.
 - Elevations are based on M.S.L. datum.
 - Manhole Tops and Valve Covers to be adjusted on job site as necessary to match finished grade.
 - Undercutting of existing material and backfilling with select borrow may be required as directed by the engineer.
 - Stop sign, and Street Signs not a Separate Pay Item. Cost to be Absorbed in Other Items.
 - Contractor shall comply with the requirements of the City of Ridgeland Erosion Control Ordinance and the DEQ Storm Water Pollution Plan.
 - Written dimensions and elevations shall govern over scaled dimensions and elevations.
 - The lengths of sanitary sewer lines shown on these drawings are the distances from center to center of manholes.
 - PVC water lines and sewage force mains installed in roadway sections shall be buried with a minimum cover of 4 feet over the top of the pipe. Backfill shall be placed in 6-inch lifts and compacted to 95% of standard proctor density. All other water and sewage force mains shall have a minimum cover of 3 feet unless otherwise noted on these drawings.
 - Backfill for sanitary sewer lines installed in roadway sections shall be compacted in 6-inch lifts. The top five feet shall be compacted to 95% of standard proctor density.
 - Water and sanitary sewer service connections to extend five feet beyond property lines. Each lot shall be served by individual service connections. Contractor shall mark the service connections as required by the specifications and drawings and shall maintain a log of the horizontal and vertical location of all service lines for submission to the engineer.
 - Fire hydrants shall be "Mueller A-423" or approved equal to insure compatibility with the remaining system. Fire hydrant assemblies shall include the fire hydrant, gate valve & box and all appropriate extensions and blocking required.
 - Provide 10 feet horizontal and 18" vertical (water above sewer) clearance between all water and sewer lines. The distance shall be measured edge to edge. Water mains crossing sewers shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sewer with the water main over the sewer line. At crossings, one full length of water pipe shall be located so both joints will be as far from the sewer as possible. Special structural support for the water and sewer pipes may be required. Any deviation must be approved by the Mississippi Department of Health.
 - The utility contractor shall be responsible for testing the water and sewer systems in accordance with the specifications and shall notify the engineer at least 24 hours in advance of performing any tests. Tests on water and sewer will be as required by the City of Ridgeland.
 - Water service assemblies shall include all tubing from the main to the meter box, tapping saddle, corporation stop, meter, yoke, and meter box and "No. 7 DBL Check Valve." Meters to be supplied by the City of Ridgeland.
 - Contractor is required to bring ground surface within right-of-way to grades shown on the typical section prior to grading and acceptance of project.
 - All block walls of curb inlets and junction boxes shall be plastered inside and outside with a 1:2 mix of cement mortar 1/2" thick.
 - Class "B" structural concrete or precast may be used to construct inlets in lieu of masonry.
 - Concrete slab and covers for inlets and junction boxes shall be class "B" structural concrete.
 - Curb and gutter shall be 3000 PSI minimum concrete.
 - Provide expansion joints with 3/4" expansion joint material at intervals of not greater than 30 feet for curb and gutter.
 - Provide contraction joints in curb and gutter at intervals of not greater than 10 feet.



Highland Colony Parkway
(100' & Var. E.O.W.)



GRAPHIC SCALE



E:\WORK\3308\3308-DETAIL-ENTRANCE

DRAWN BY: RICHARD SOMERS	APPROVED BY: PAT GUEST
DATE: 03-27-2002	PROJ. NO. G-3308
DWG. NO.: 3308-DETAIL-ENTRANCE	

REVISIONS

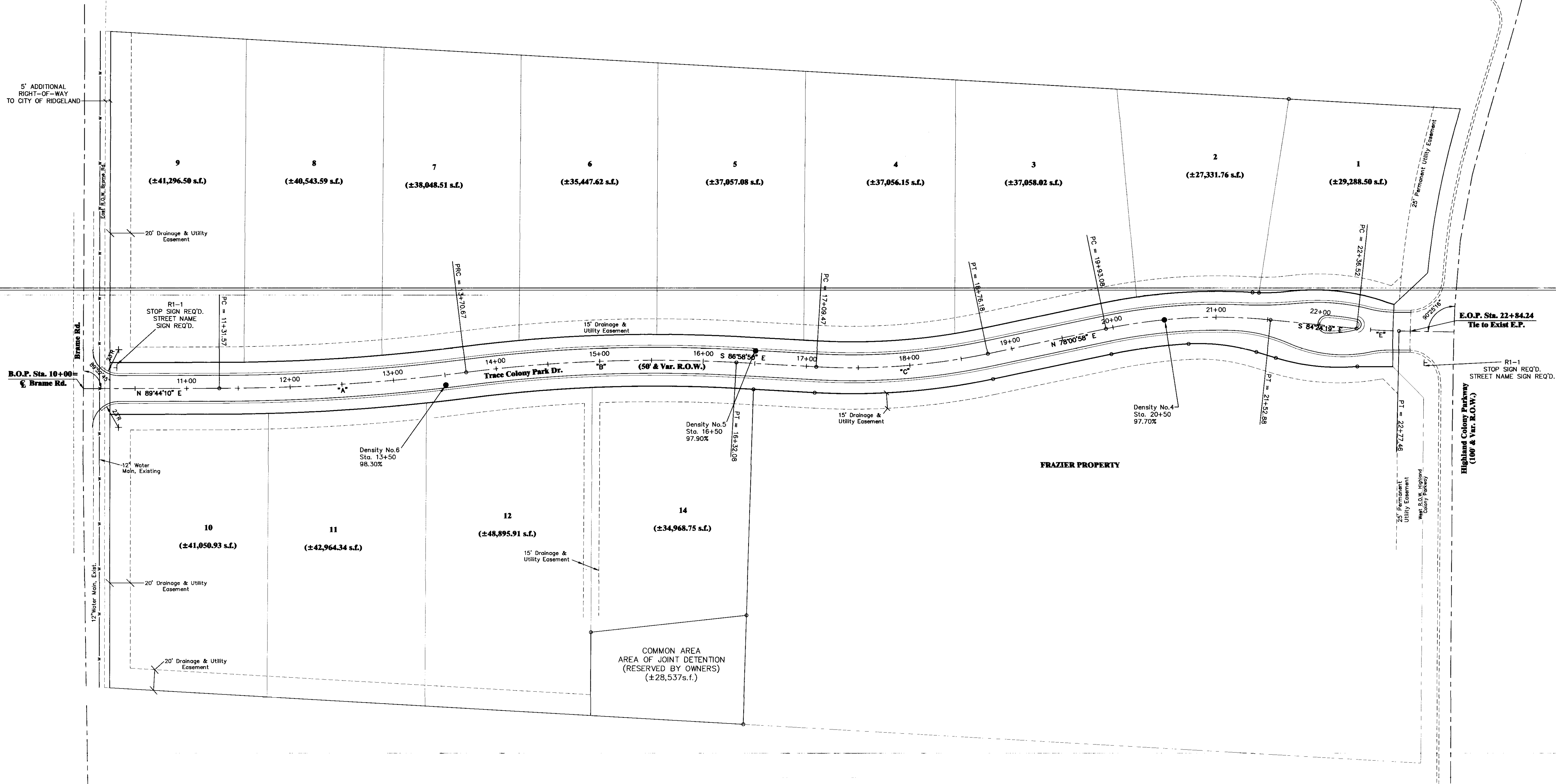
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PROJECT
TRACE COLONY PARK

SHT. NAME
ENTRANCE & STRIPING DETAIL

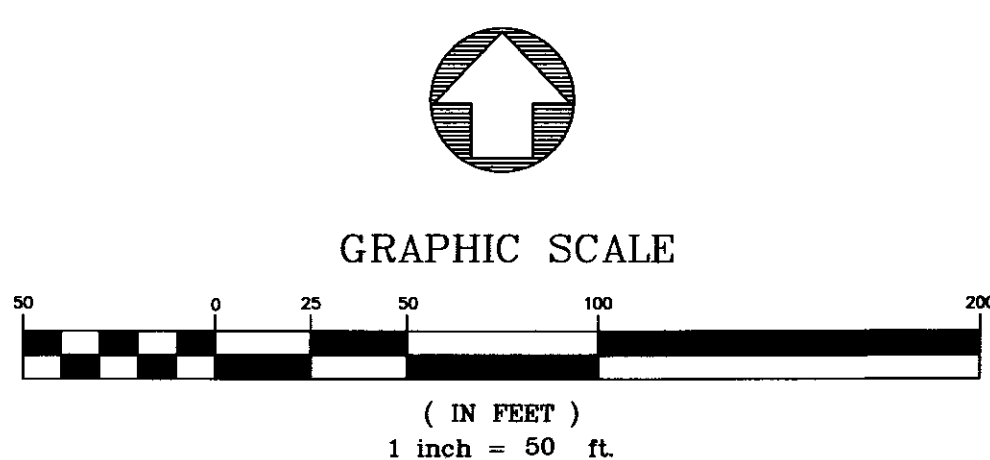
SHT. NO.
3

5' ADDITIONAL
RIGHT-OF-WAY
TO CITY OF RIDGELAND



CURVE DATA

Curve	Delta	Radius	Length	Tangent	Chord	Chord Brg.
A	07°10'23"	1909.86'	239.10'	119.71'	238.94'	N 86°08'59" E
B	10°27'23"	1432.39'	261.41'	131.07'	261.05'	N 87°47'29" E
C	15°00'12"	636.62'	166.70'	83.83'	166.23'	N 85°31'04" E
D	17°34'43"	520.87'	159.80'	80.53'	159.18'	N 86°48'19" E
E	04°41'31"	500.00'	40.95'	20.48'	40.93'	S 86°45'05" E



DRAWN BY: RICHARD SOMERS, DL
DATE: 03-27-2002
DWG. NO.: 3308-GEO

APPROVED BY: PAT GUEST
PROJ. NO.: G-3308

REVISIONS

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EMAIL: guestcon@bellsouth.net

PROJECT: **TRACE COLONY PARK**

SHT. NAME: **GEOMETRIC LAYOUT**

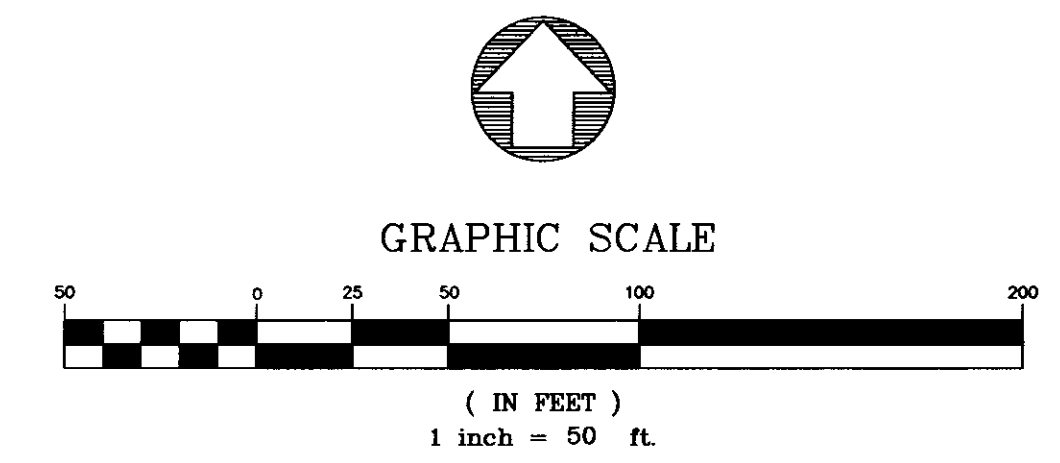
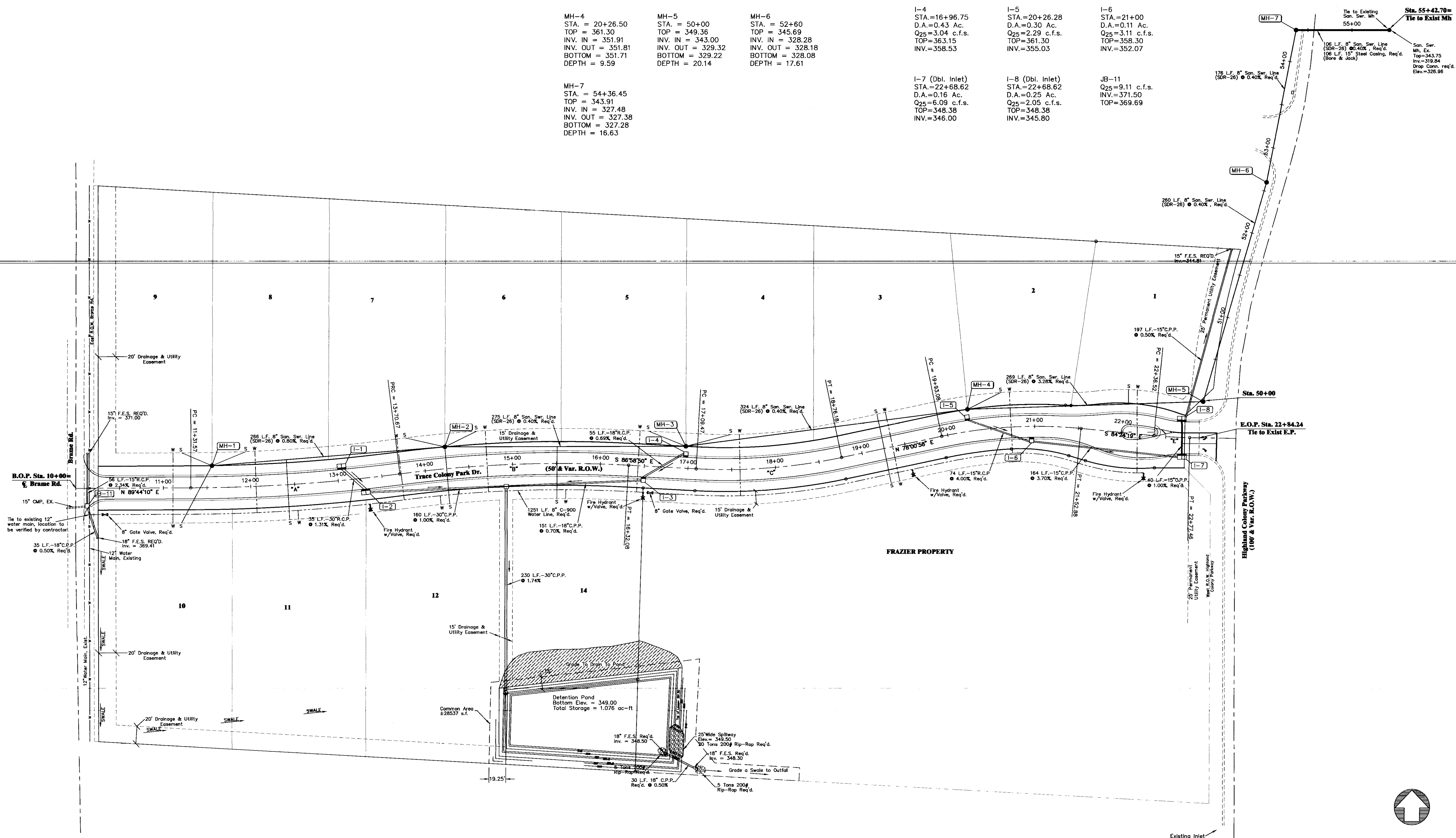
SHT. NO.: **4**

SANITARY SEWER STRUCTURE DATA:

MH-1 STA. = 11+56 TOP = 364.71 INV. OUT = 356.63 BOTTOM = 356.53 DEPTH = 8.08	MH-2 STA. = 14+24.47 TOP = 361.20 INV. IN = 354.51 INV. OUT = 354.41 BOTTOM = 354.31 DEPTH = 6.89	MH-3 STA. = 17+00 TOP = 362.90 INV. IN = 353.31 INV. OUT = 353.21 BOTTOM = 353.11 DEPTH = 10.79
MH-4 STA. = 20+26.50 TOP = 361.30 INV. IN = 351.91 INV. OUT = 351.81 BOTTOM = 351.71 DEPTH = 9.59	MH-5 STA. = 50+00 TOP = 349.36 INV. IN = 343.00 INV. OUT = 329.32 BOTTOM = 329.22 DEPTH = 20.14	MH-6 STA. = 52+60 TOP = 345.69 INV. IN = 328.28 INV. OUT = 328.18 BOTTOM = 328.08 DEPTH = 17.61
MH-7 STA. = 54+36.45 TOP = 343.91 INV. IN = 327.48 INV. OUT = 327.38 BOTTOM = 327.28 DEPTH = 16.63		

STORM DRAINAGE STRUCTURE DATA:

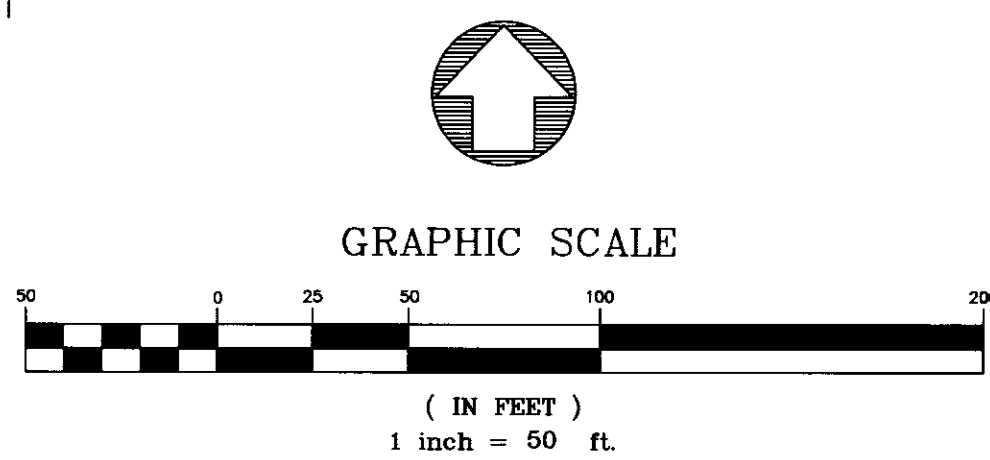
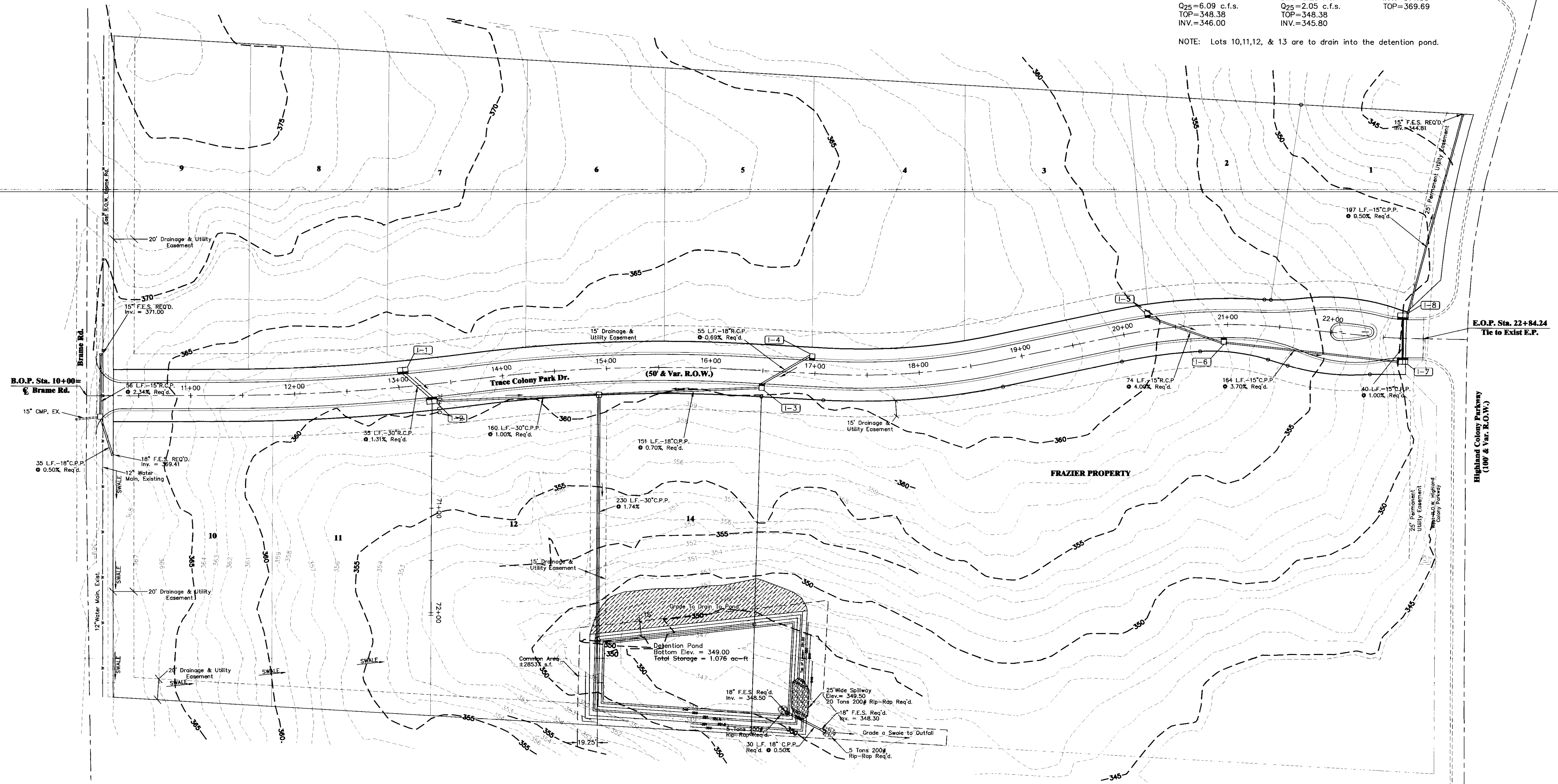
I-1 (Dbl. Inlet) STA.=13+05.21 D.A.=4.84 Ac. Q ₂₅ =34.26 c.f.s. TOP=360.73 INV.=355.47	I-2 (Dbl. Inlet) STA.=13+30.05 D.A.=0.37 Ac. Q ₂₅ =37.66 c.f.s. TOP=362.57 INV.=355.01	I-3 STA.=16+50 D.A.=0.12 Ac. Q ₂₅ =3.88 c.f.s. TOP=362.57 INV.=358.17
I-4 STA.=16+96.75 D.A.=0.43 Ac. Q ₂₅ =3.04 c.f.s. TOP=363.15 INV.=358.53	I-5 STA.=20+26.28 D.A.=0.30 Ac. Q ₂₅ =2.29 c.f.s. TOP=361.30 INV.=355.03	I-6 STA.=21+00 D.A.=0.11 Ac. Q ₂₅ =3.11 c.f.s. TOP=358.30 INV.=352.07
I-7 (Dbl. Inlet) STA.=22+68.62 D.A.=0.16 Ac. Q ₂₅ =6.09 c.f.s. TOP=348.38 INV.=346.00	I-8 (Dbl. Inlet) STA.=22+68.62 D.A.=0.25 Ac. Q ₂₅ =2.05 c.f.s. TOP=348.38 INV.=345.80	JB-11 Q ₂₅ =9.11 c.f.s. INV.=371.50 TOP=369.69



STORM DRAINAGE STRUCTURE DATA:

I-1 (Dbl. Inlet) STA.=13+05.21 D.A.=4.84 Ac. Q ₂₅ =34.26 c.f.s. TOP=360.73 INV.=355.47	I-2 (Dbl. Inlet) STA.=13+30.05 D.A.=0.37 Ac. Q ₂₅ =37.66 c.f.s. TOP=360.68 INV.=355.01	I-3 STA.=16+50 D.A.=0.12 Ac. Q ₂₅ =3.88 c.f.s. TOP=362.57 INV.=358.17
I-4 STA.=16+96.75 D.A.=0.43 Ac. Q ₂₅ =3.04 c.f.s. TOP=363.15 INV.=358.53	I-5 STA.=20+26.28 D.A.=0.30 Ac. Q ₂₅ =2.29 c.f.s. TOP=361.30 INV.=355.03	I-6 STA.=21+00 D.A.=0.11 Ac. Q ₂₅ =3.11 c.f.s. TOP=358.30 INV.=352.07
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NOTE: Lots 10,11,12, & 13 are to drain into the detention pond.



COMPUTER: SERVER

DRAWN BY: RICHARD SOMERS, DL	APPROVED BY: PAT GUEST
DATE: 03-27-02	PROJ. NO. G-3308
DWG. NO.: 3308-SDL	

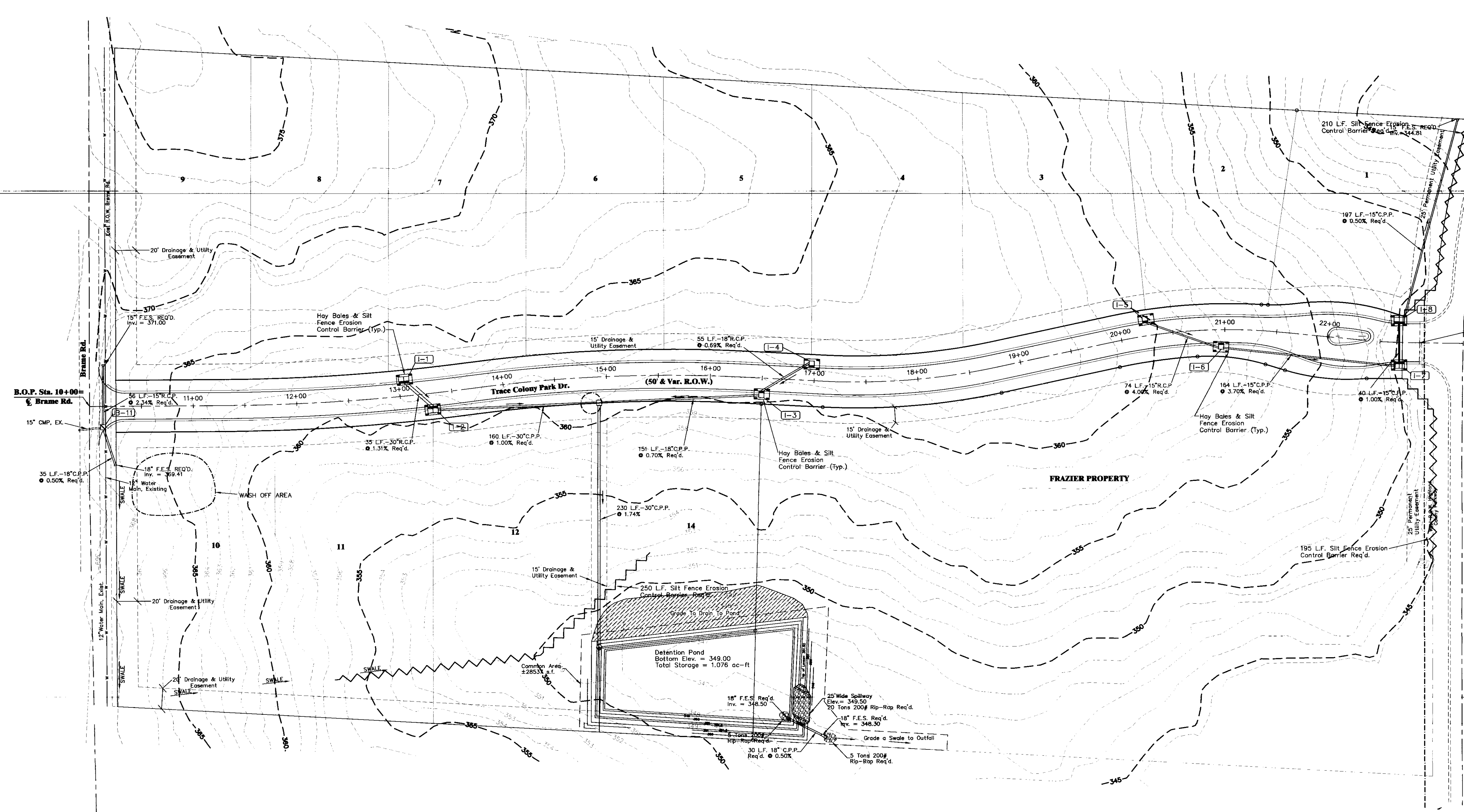
REVISIONS

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 TELEPHONE (601) 825-8341 • FAX (601) 825-3032
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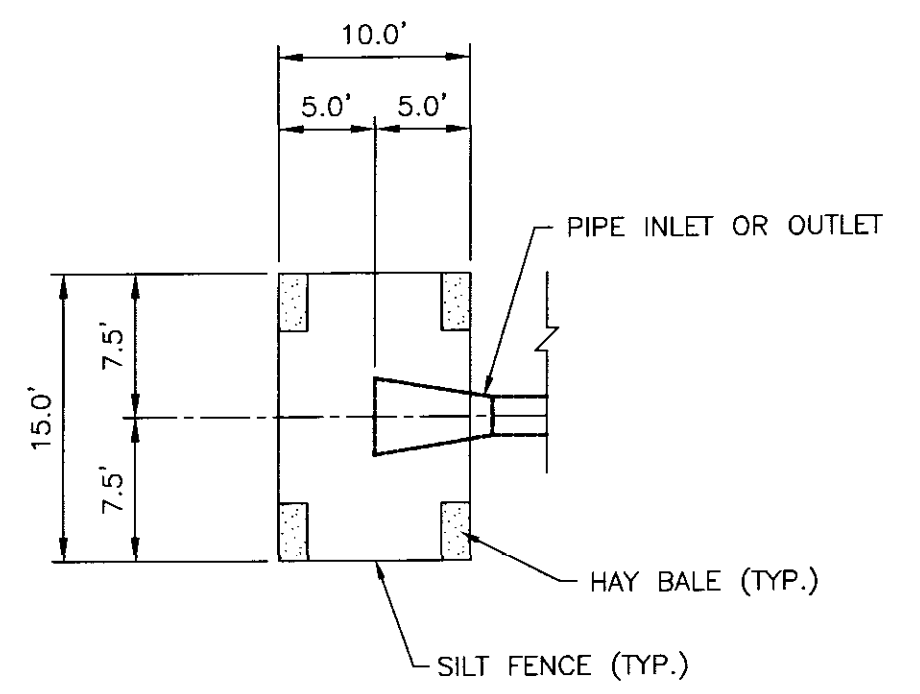
PROJECT
TRACE COLONY PARK

SHT. NAME
STORM DRAIN LAYOUT

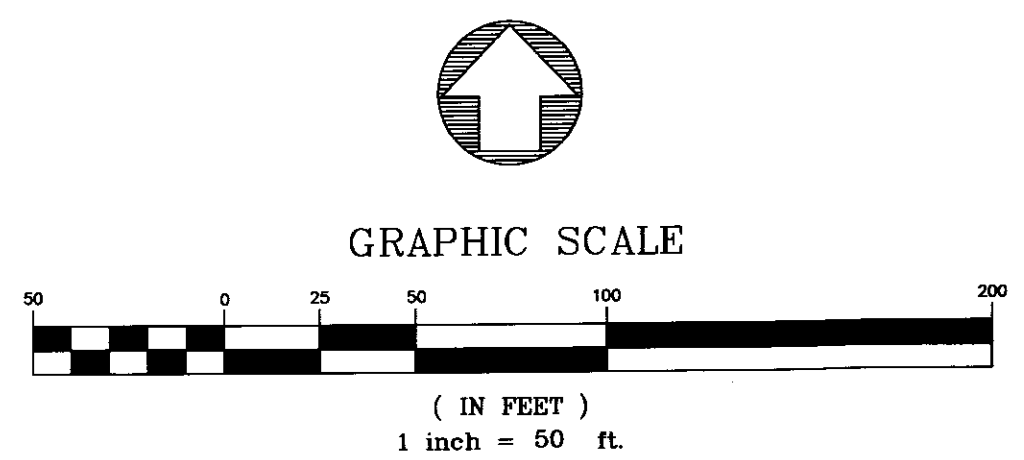
SHT. NO.
7



- MAINTENANCE PLAN**
- SHORT TERM**
1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE LESS THAN EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
 2. SEDIMENT WILL BE REMOVED FROM THE INLET PROTECTION DEVICES WHEN IT REACHES A MAXIMUM OF 6 INCHES DEEP. THE DEVICE WILL BE REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
 3. ALL SEEDED AREAS WILL BE FERTILIZED AND RESEEDED AS NECESSARY TO MAINTAIN A DENSE VEGETATIVE COVER.
- LONG TERM**
1. ALL VEGETATED AREAS WILL BE MAINTAINED IN ADEQUATE CONDITION TO PROVIDE PROPER GROUND COVER.
 2. AREAS WHERE VEGETATION IS LOST WILL BE FERTILIZED, SEEDED AND MAINTAINED AS NECESSARY TO RESTORE PROPER GROUND COVER.
 3. STRUCTURAL MEASURES WILL BE EXAMINED AT LEAST ANNUALLY AND MAINTENANCE PERFORMED AS NEEDED.
- PLANNED EROSION, SEDIMENT AND STORMWATER CONTROL PRACTICES**
1. STORM DRAIN INLET PROTECTION
TEMPORARY HAY BALE AND SILT FENCE COMBINATIONS WILL BE INSTALLED AT ALL CURB INLET AND GRATE INLET LOCATIONS.
 2. LAND GRADING
EXCESS EXCAVATION FROM THE STREET RIGHTS OF WAY WILL BE PLACED ON THE LOTS OF LOWEST ELEVATION. ALL FILL MATERIALS WILL BE COMPACTED AND SLOPES WILL NOT EXCEED 3:1. ALL AREAS WILL RECEIVE SEEDING FOR STABILIZATION OF THE FILL MATERIAL.
 3. ROCK OUTLET PROTECTION
A RIPRAP APRON WILL BE LOCATED AT THE OUTLET OF ALL CULVERTS TO PREVENT SCOUR.
 4. PERMANENT SEEDING
ALL DISTURBED AREAS WILL BE PERMANENTLY SEEDED AND MULCHED ONCE FINAL GRADE IS ESTABLISHED. THE LAND GRADING AREAS PREVIOUSLY MENTIONED WILL RECEIVE TEMPORARY SEEDING AS STATED.



EROSION CONTROL BARRIER DETAIL
SCALE: 1" = 10'-0"



DRAWN BY: RICHARD SOMERS, DL
DATE: 03-27-02
DWG. NO.: 330B-ECP

APPROVED BY: PAT GUEST
PROJ. NO.: G-330B

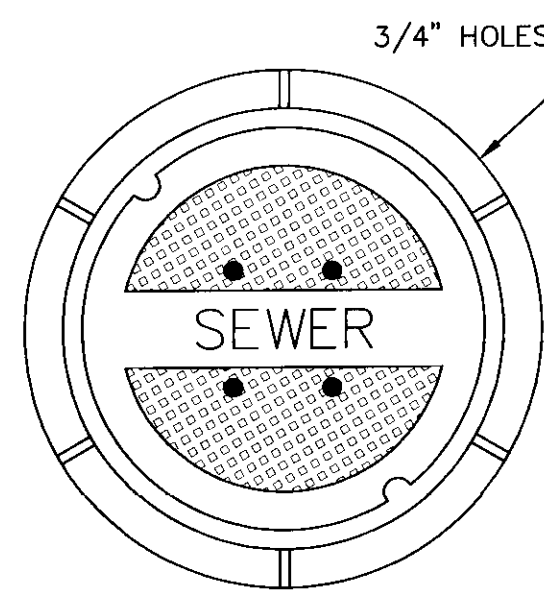
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PROJECT: **TRACE COLONY PARK**

SHT. NAME: **EROSION CONTROL PLAN**

SHT. NO.: **8**

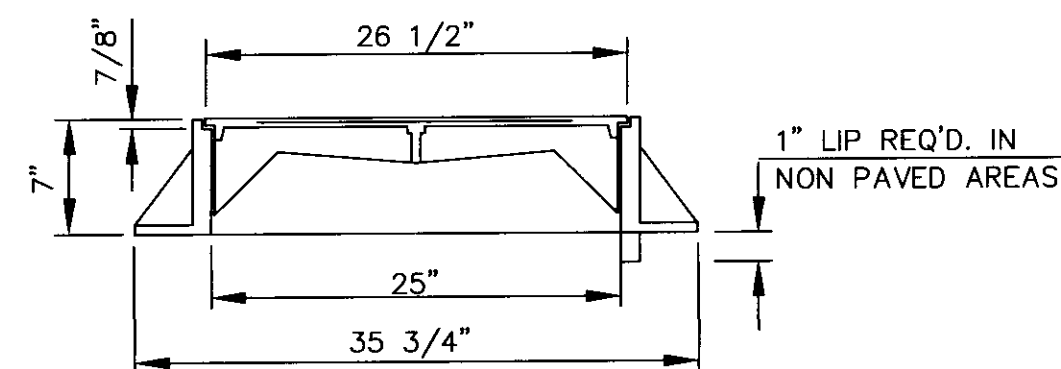


TOP PLAN OF COVER

FRAME & COVER WEIGHT 420 LBS.

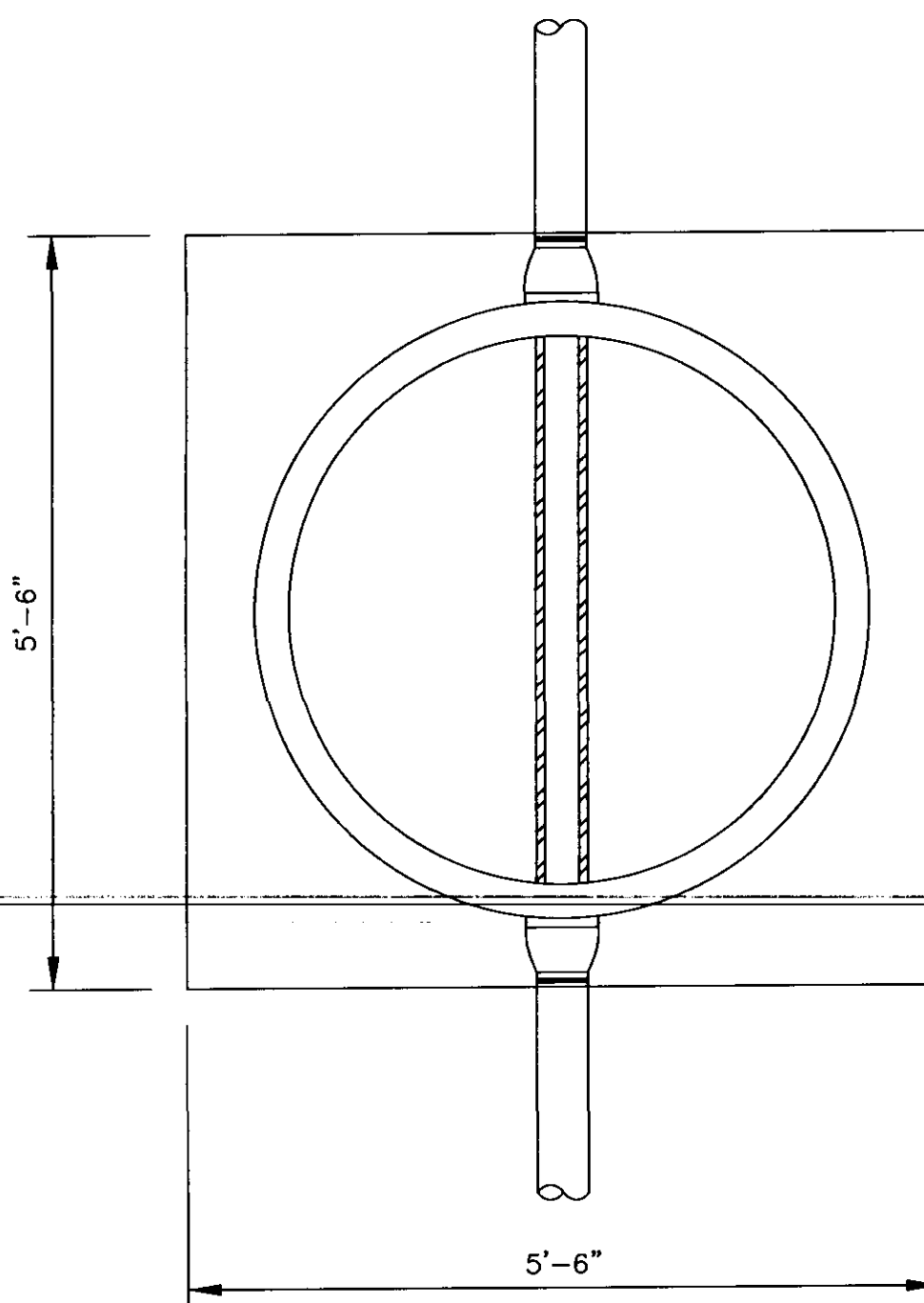
STANDARD MANHOLE FRAME AND COVER

N.T.S.



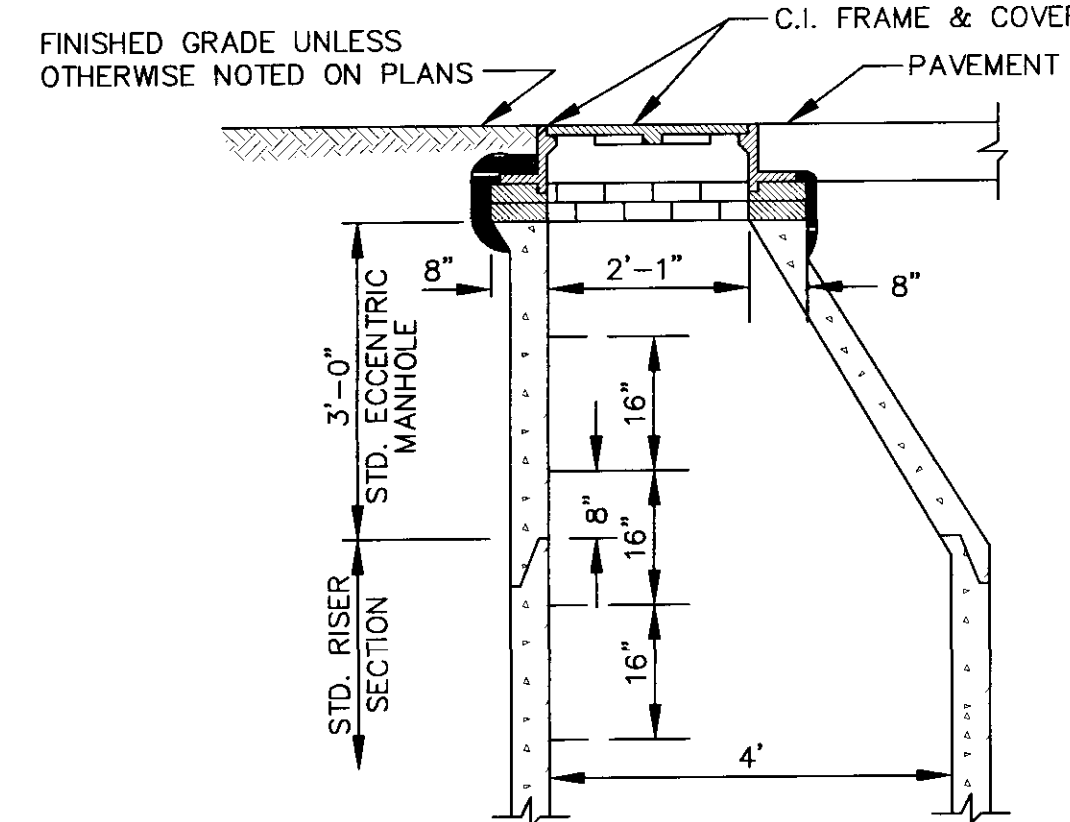
SECTION

NOTE: INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH FLEXIBLE BOOTS WHICH ALLOWS DIFFERENTIAL SETTLEMENT OF PIPE AND MANHOLE



TYPICAL PIPE CONNECTION TO MANHOLE

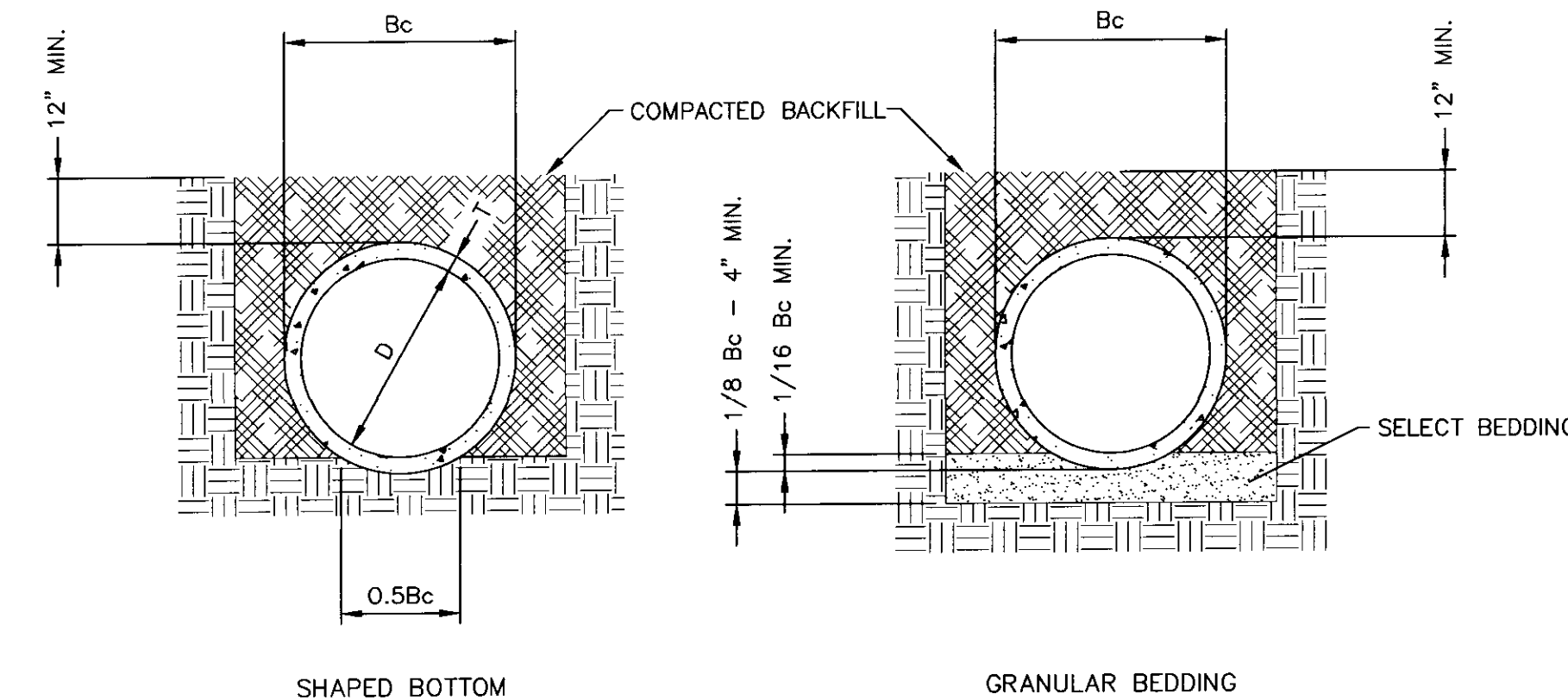
N.T.S.



NOTE: DETAILS FOR RISER & BASE SECTIONS ARE SAME AS SHOWN IN SECTION OF PRECAST CONCRETE MANHOLE.

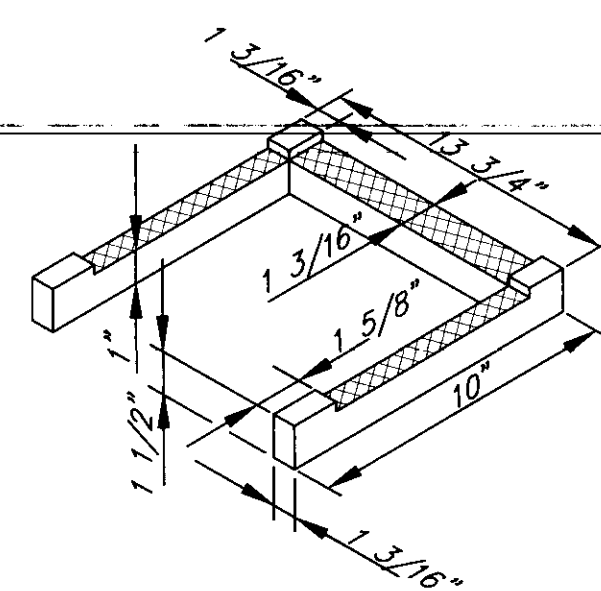
STANDARD ECCENTRIC CONE FOR ALL DIAMETER MANHOLES

N.T.S.



TYPICAL TRENCH DETAILS

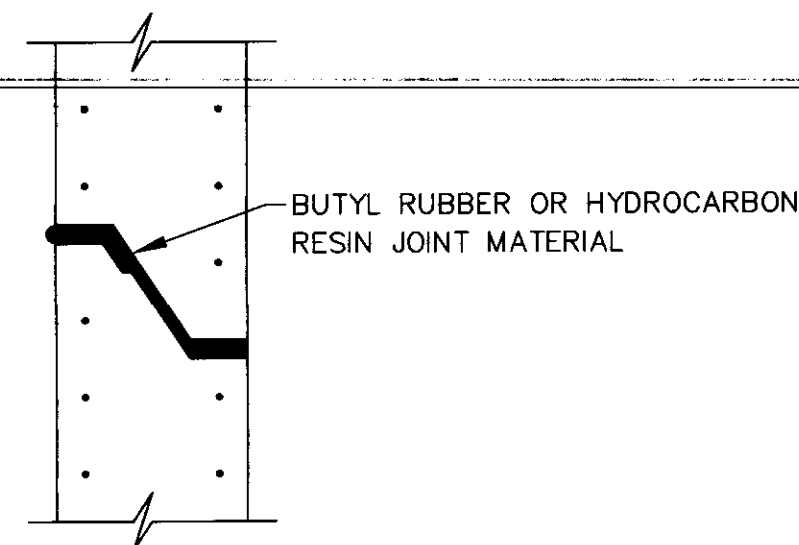
CLASS "C"
N.T.S.



DETAIL "B"

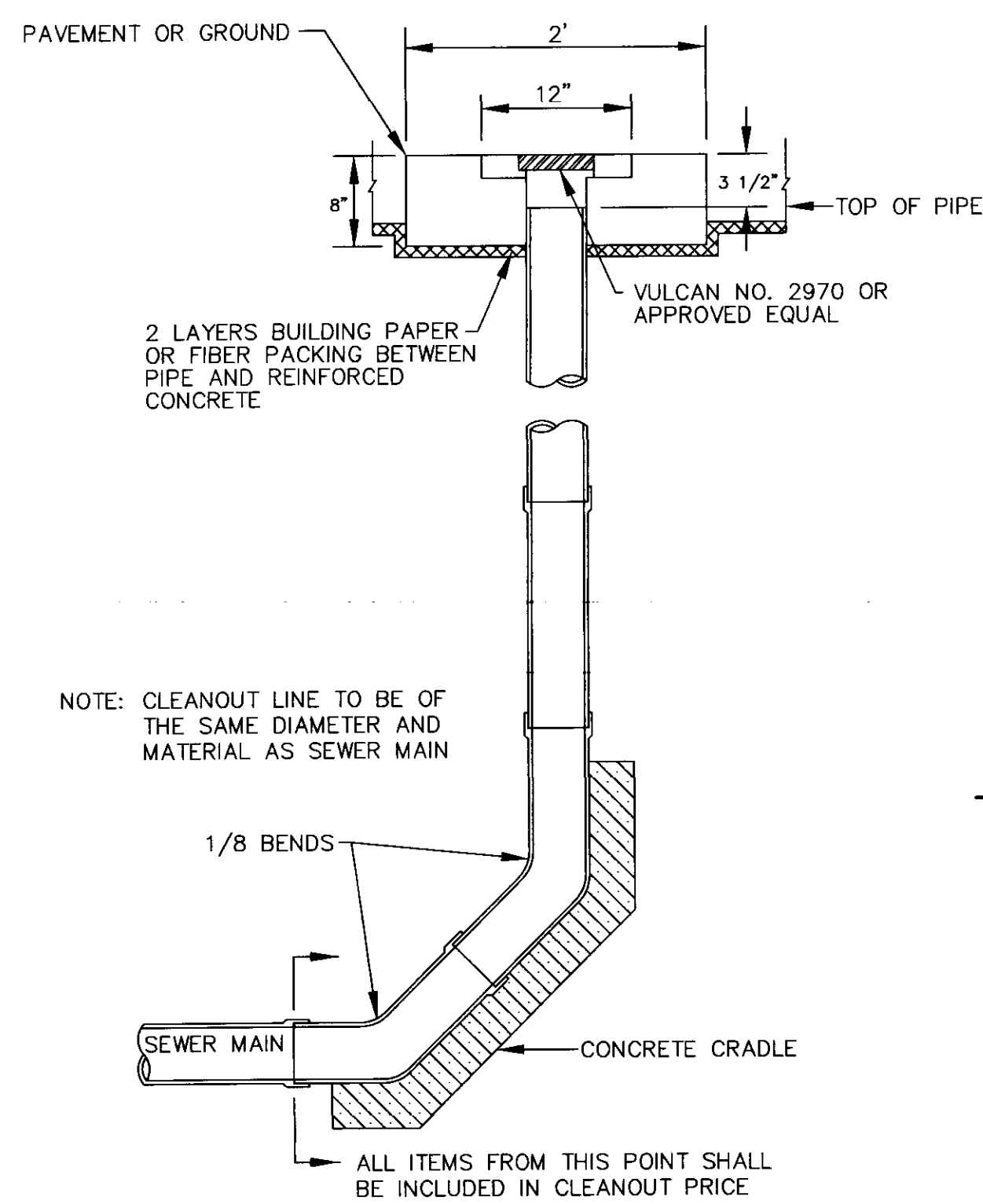
N.T.S.

PS1-PF MANHOLE STEP AS MANUFACTURED BY M.A. INDUSTRIES INC. OR EQUAL



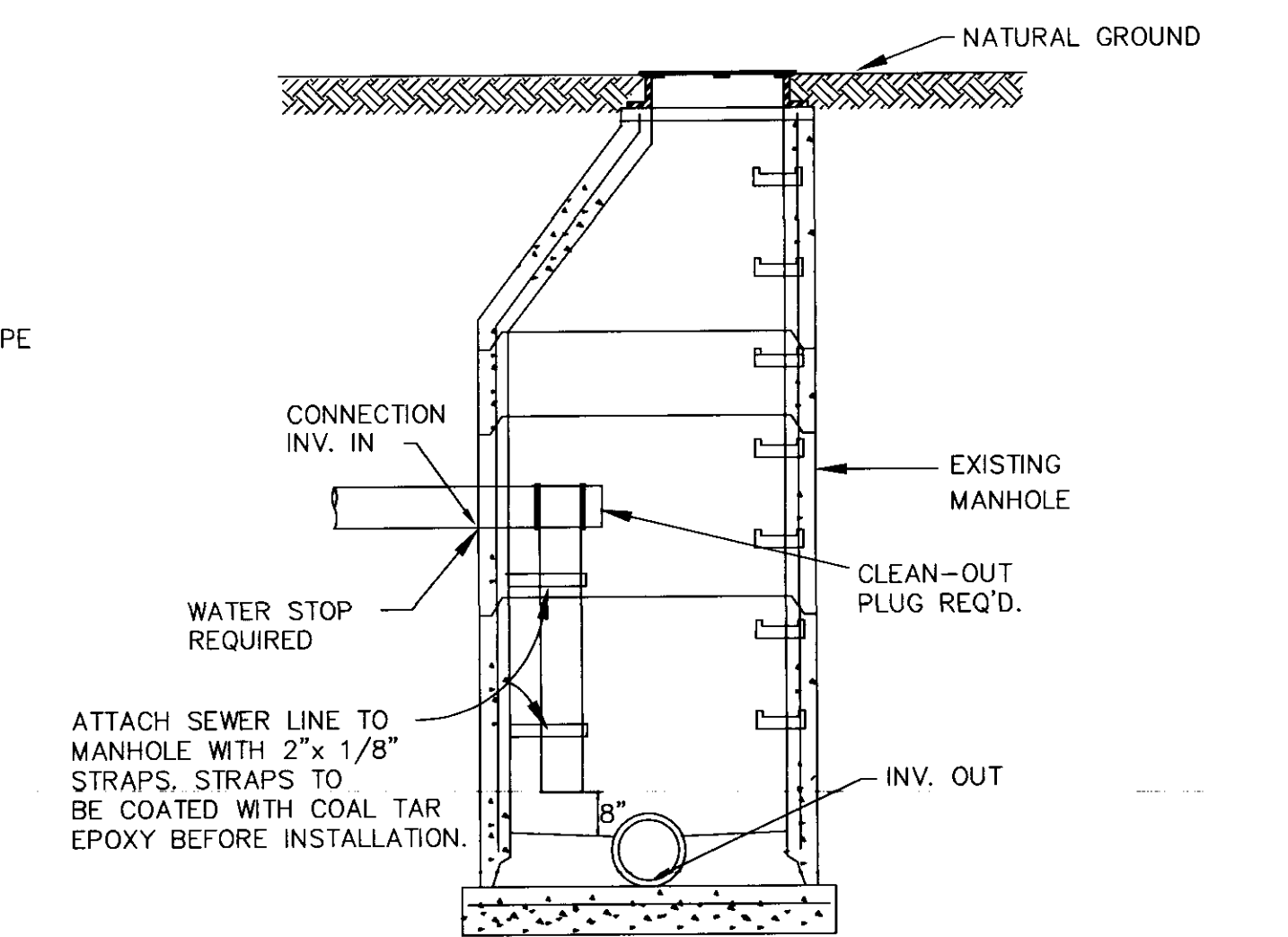
TYPICAL PRECAST CONCRETE MANHOLE JOINT DETAIL

N.T.S.



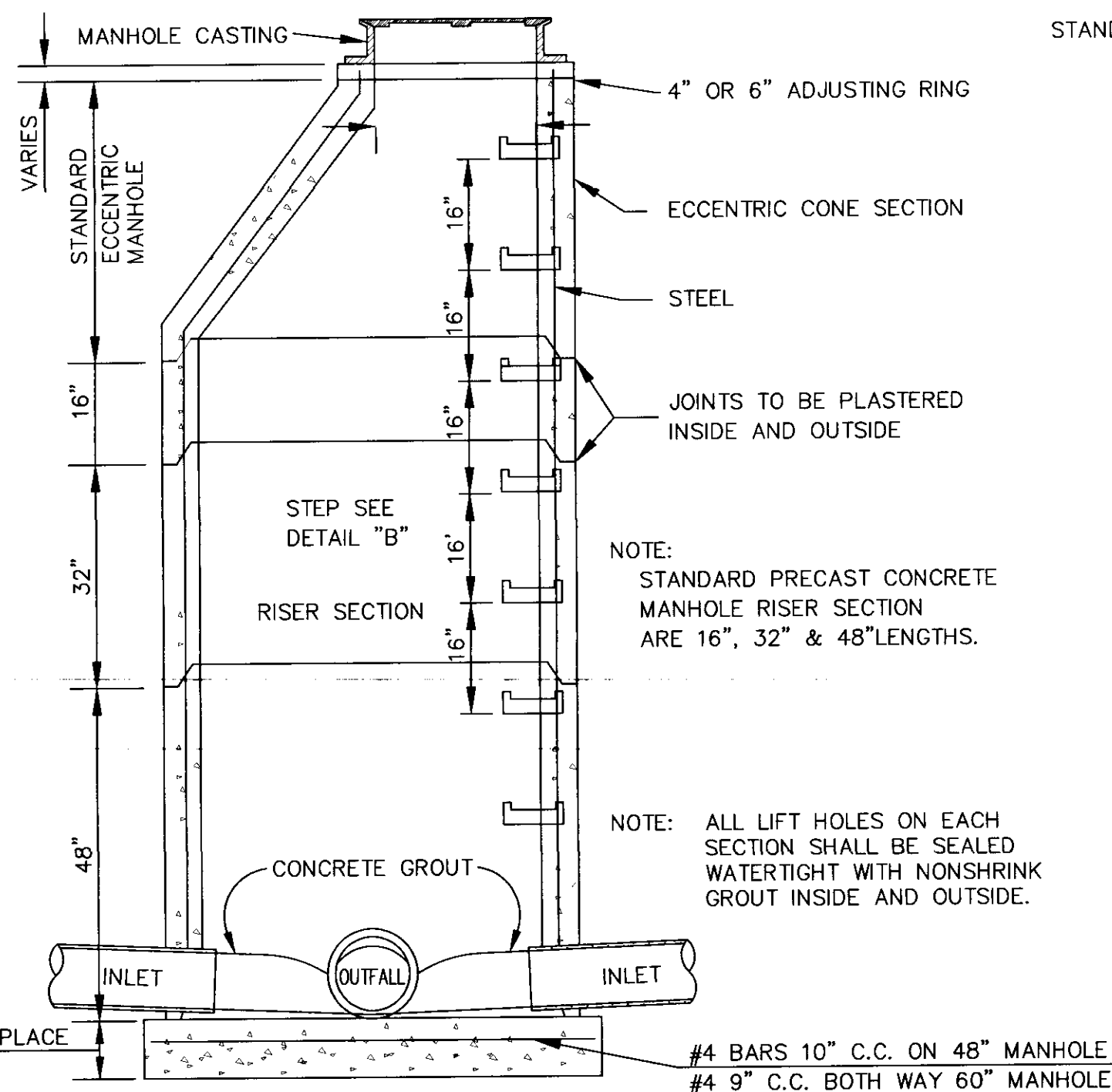
TERMINAL CLEANOUT

N.T.S.



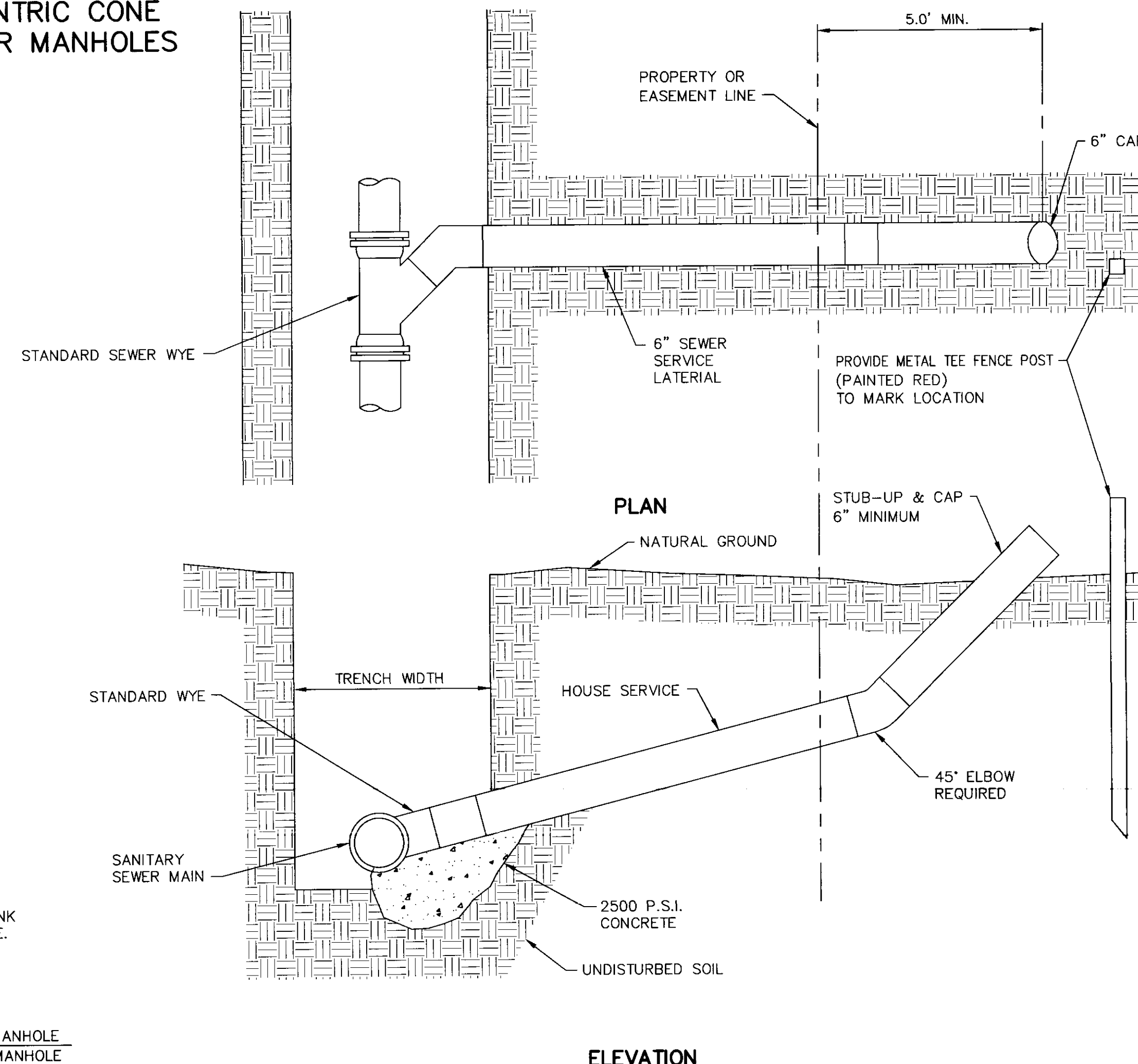
TYPICAL DROP CONNECTION TO EXISTING MANHOLE

N.T.S.



SECTION OF PRECAST CONCRETE MANHOLE

N.T.S.



SEWER SERVICE CONNECTION

N.T.S.

FW1001-3308-DETAILS-SWR

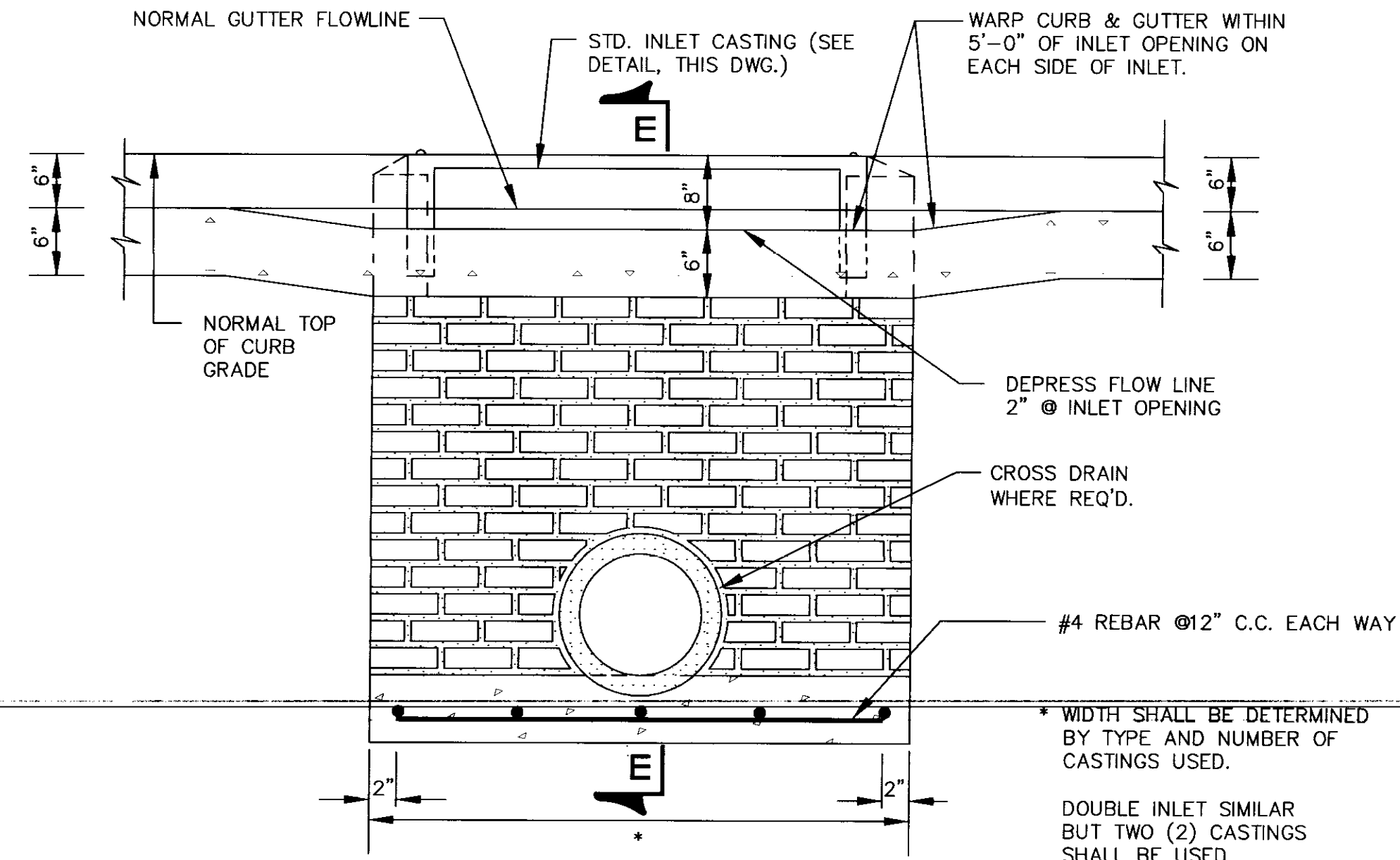
DRAWN BY: RICHARD SOMERS, DL	APPROVED BY: PAT GUEST
DATE: 09-25-2001	PROJ. NO. G-3308
DWG. NO.: 3308-DETAILS-SWR	

REVISIONS

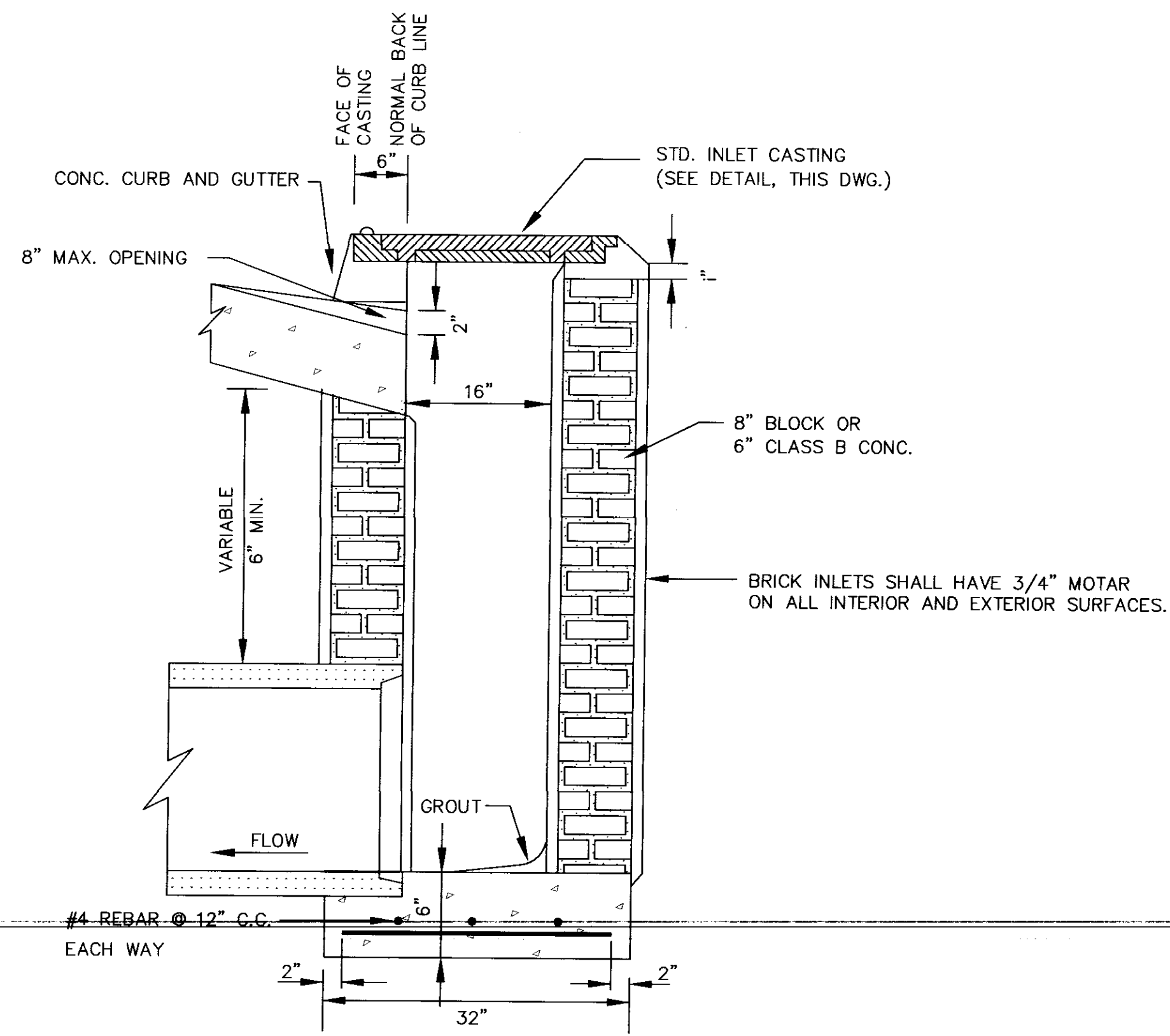
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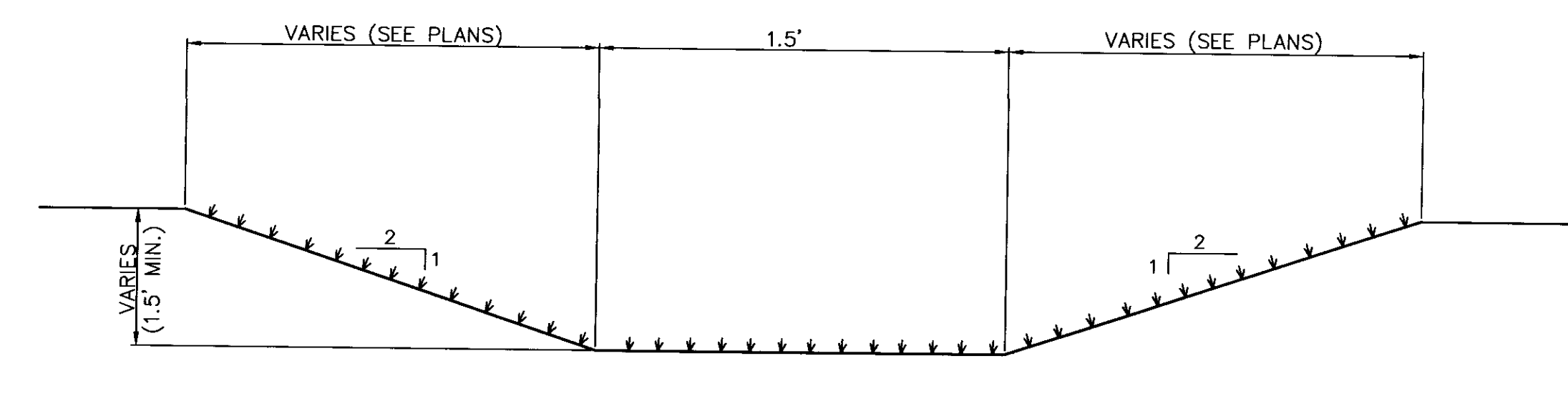
PROJECT	TRACE COLONY PARK
SHT. NAME	SANITARY SEWER DETAILS



FRONT ELEVATION
INLET TYPES "A" AND "A" MODIFIED

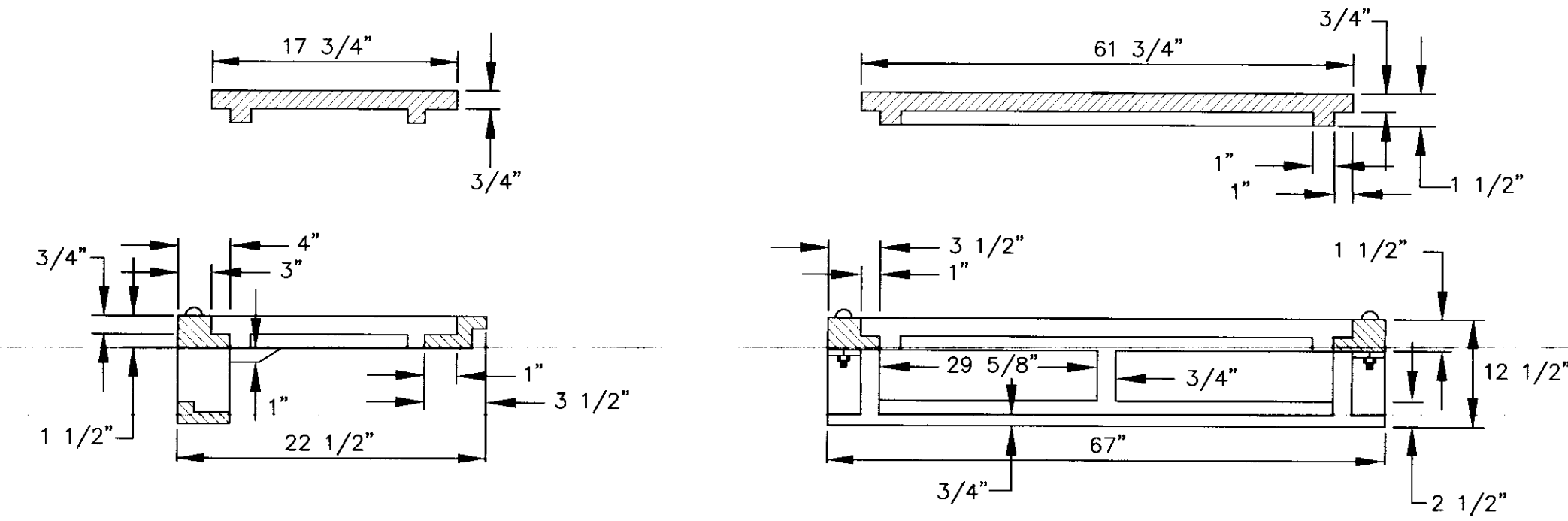
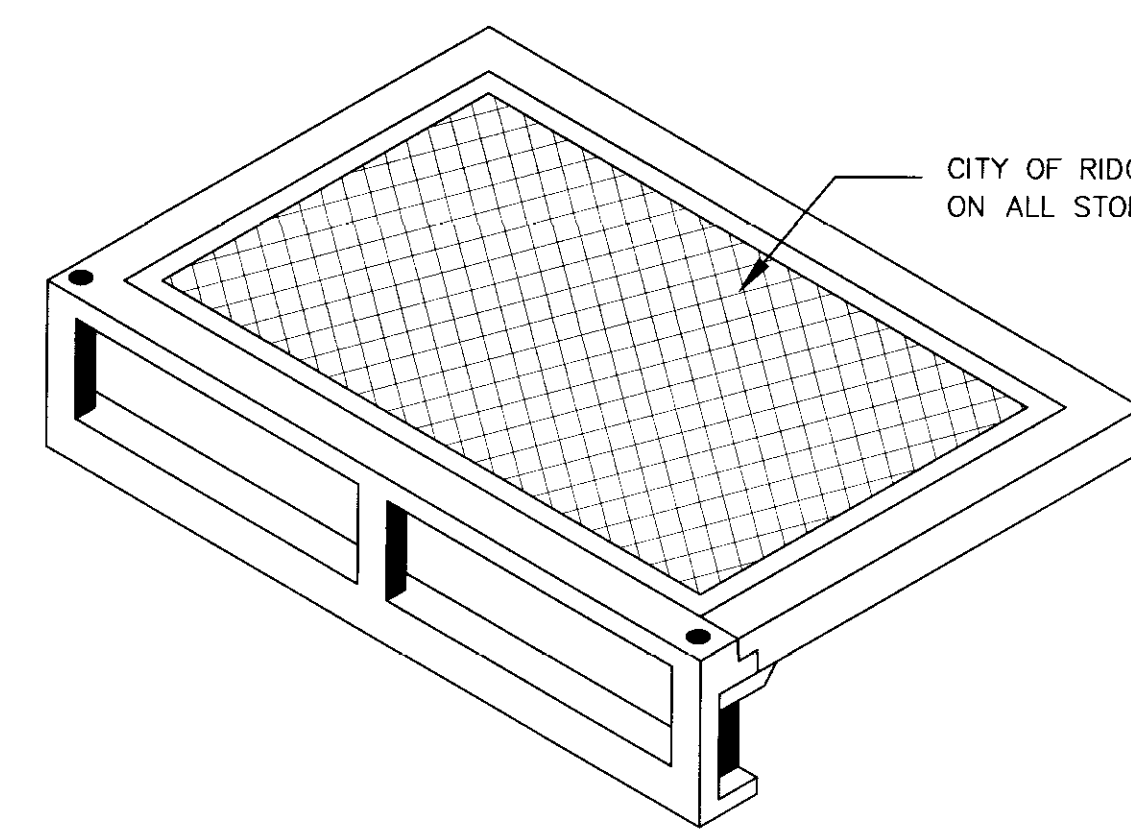


SECTION E - E
TYPE "A" INLET



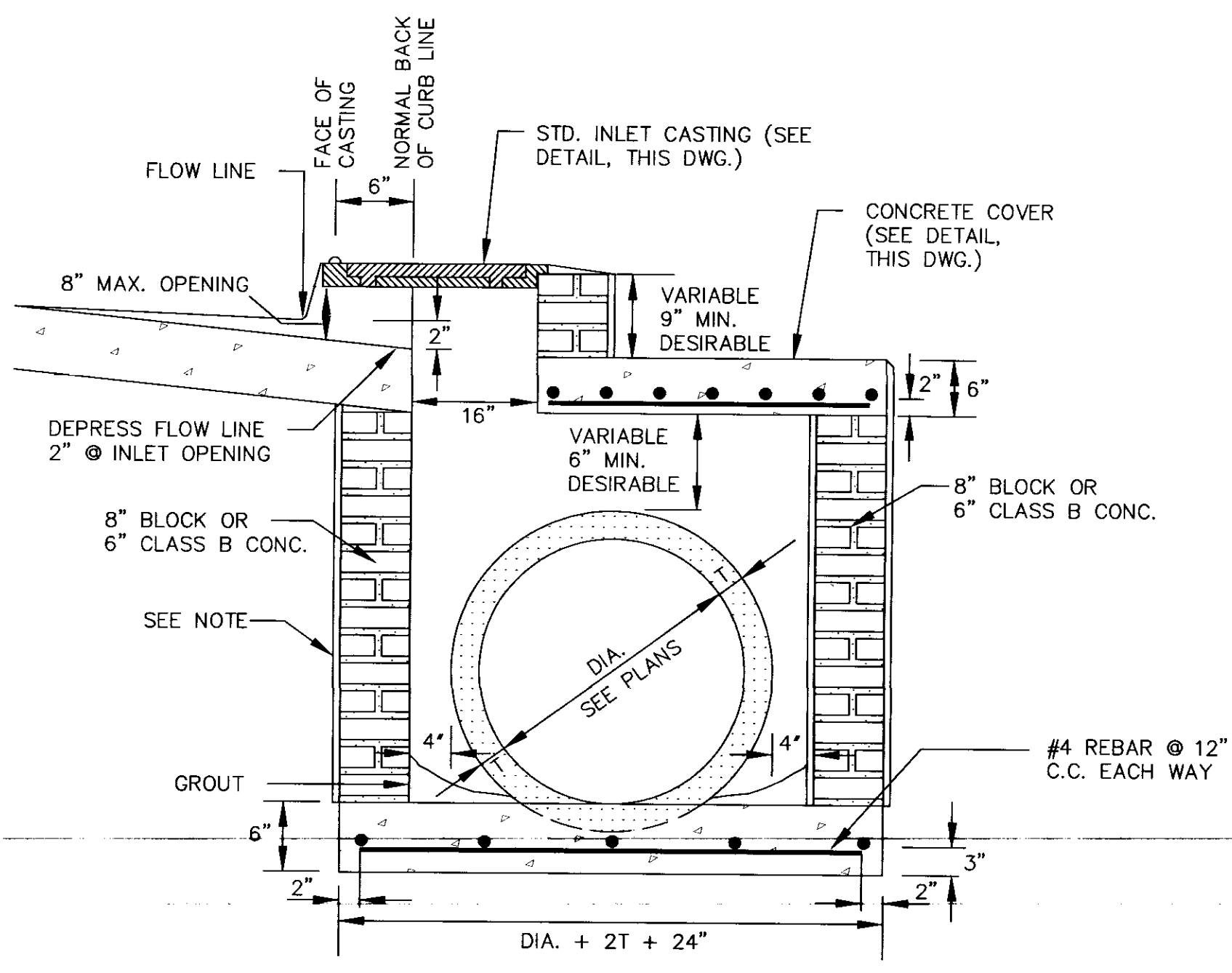
PROPOSED SWALE
TYPICAL SECTION
N.T.S.

XXXXX : DENOTES AREAS TO BE SEEDED

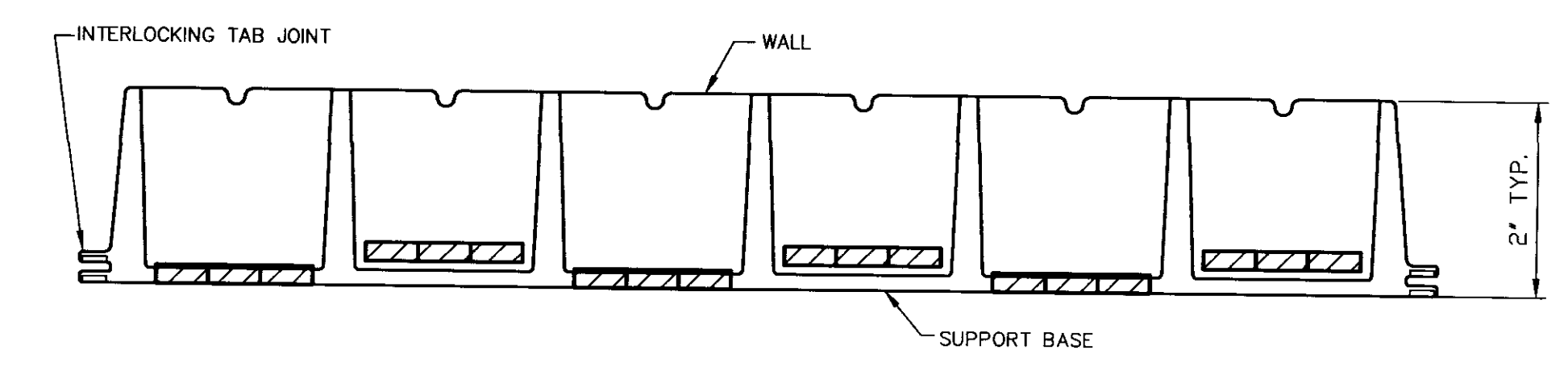


STANDARD CURB INLET CASTING
(VULCAN 4343-2)
N.T.S.

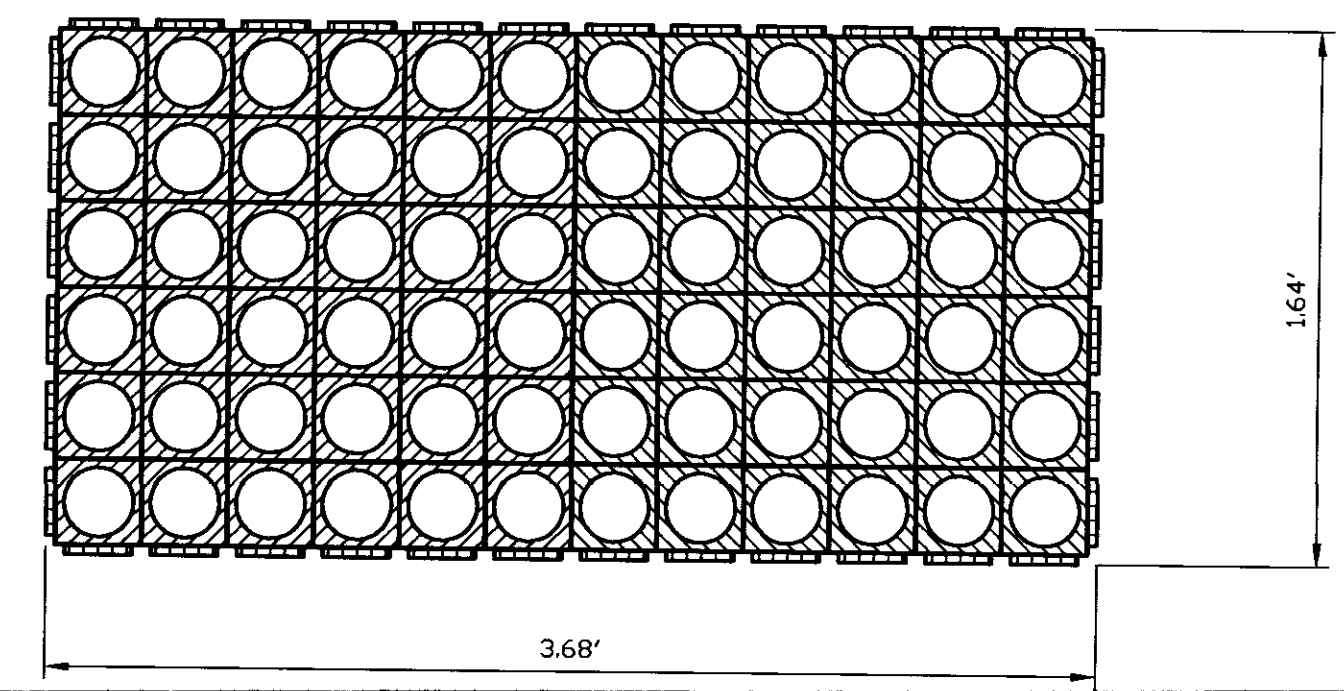
NOTE: CONTRACTOR MAY USE PRECAST CONCRETE INLETS



SECTION E - E
TYPE "A" MODIFIED



ELEVATION



PLAN

TYPICAL POROUS PAVEMENT UNIT

- N.T.S.
- NOTES:
1. FIRE ACCESS LANE FOR FIRE TRUCK. H2O LOADING - INFREQUENT PASSES
 2. BASIS OF DESIGN: PRESTO GEOBLOCK SYSTEM

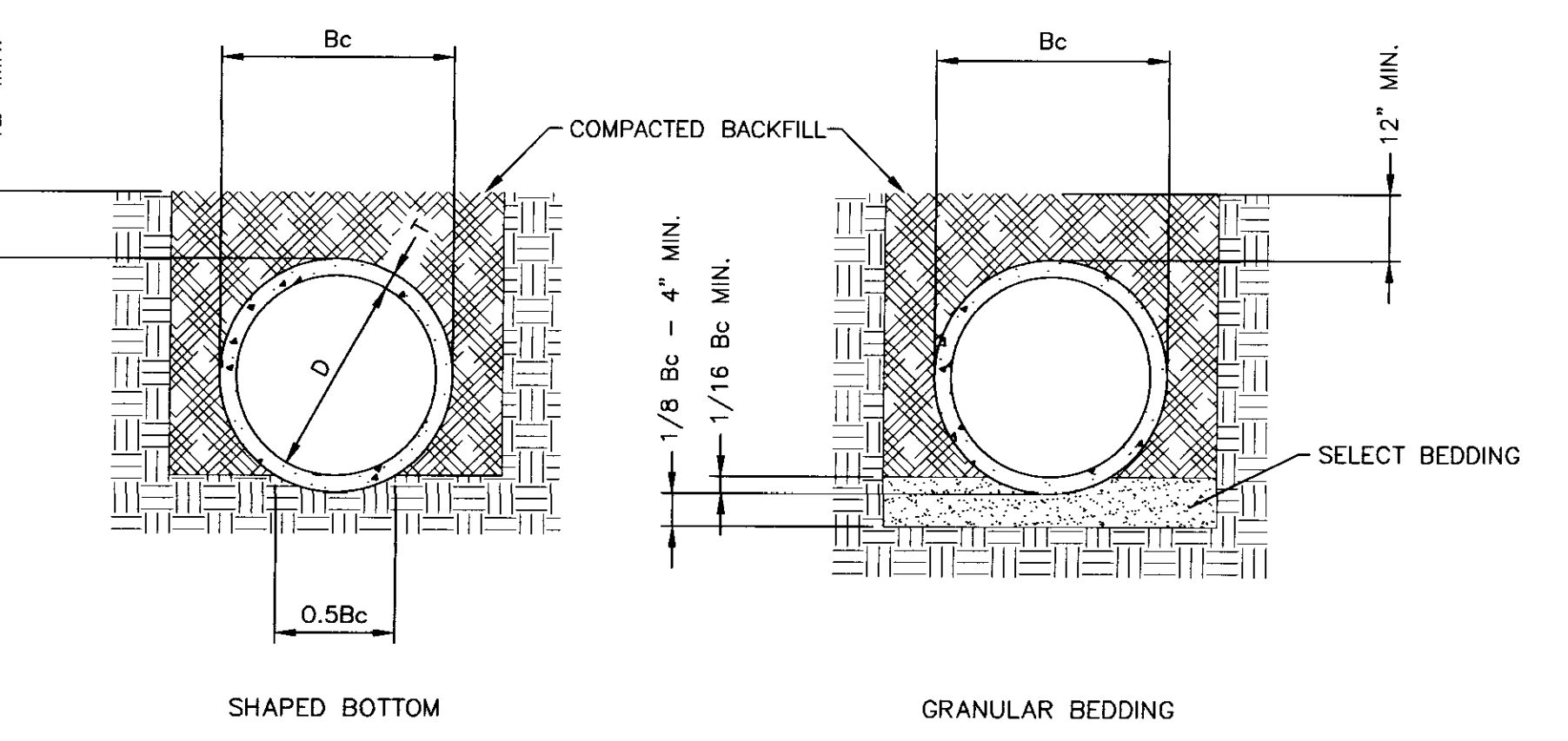
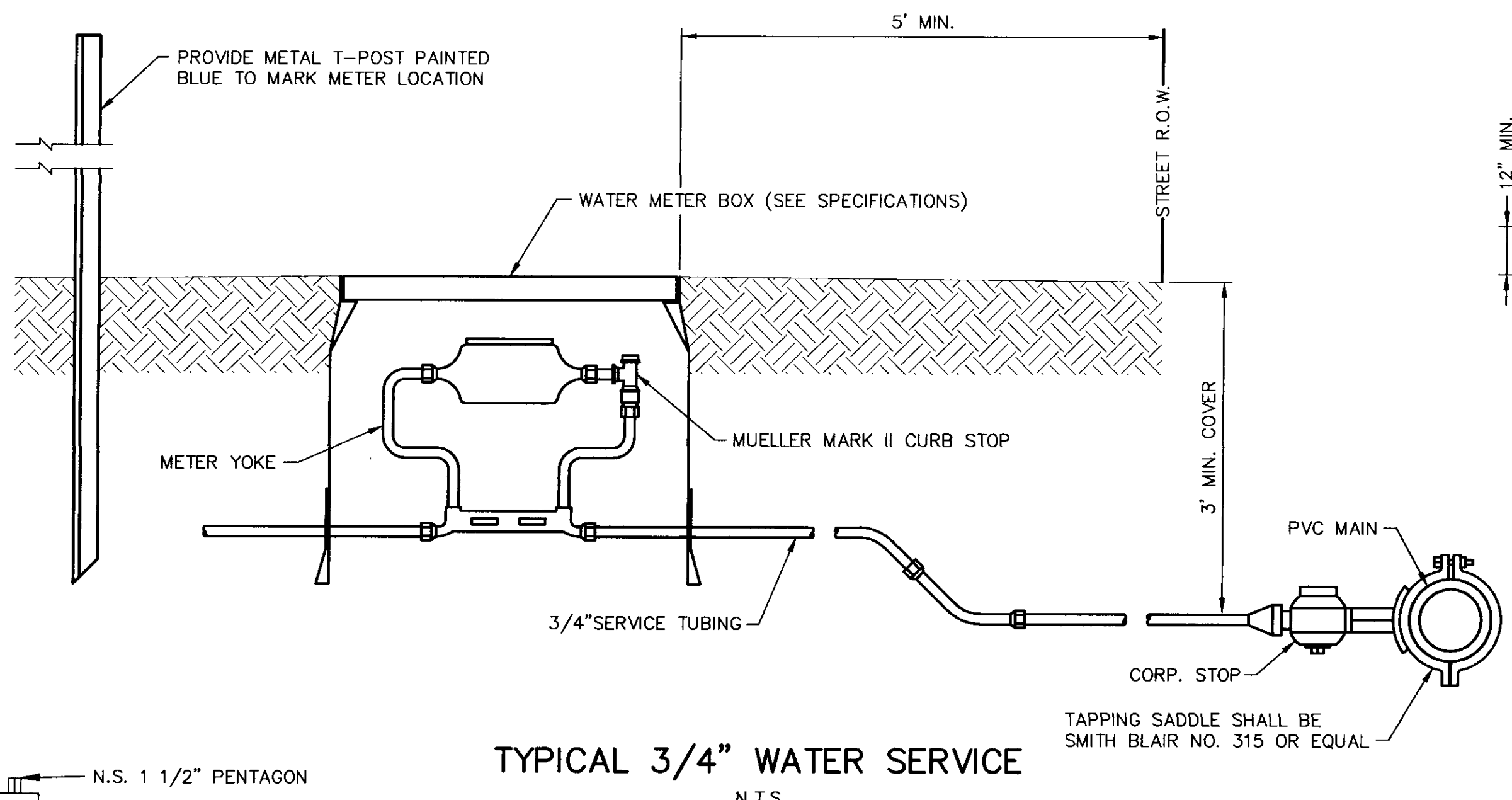
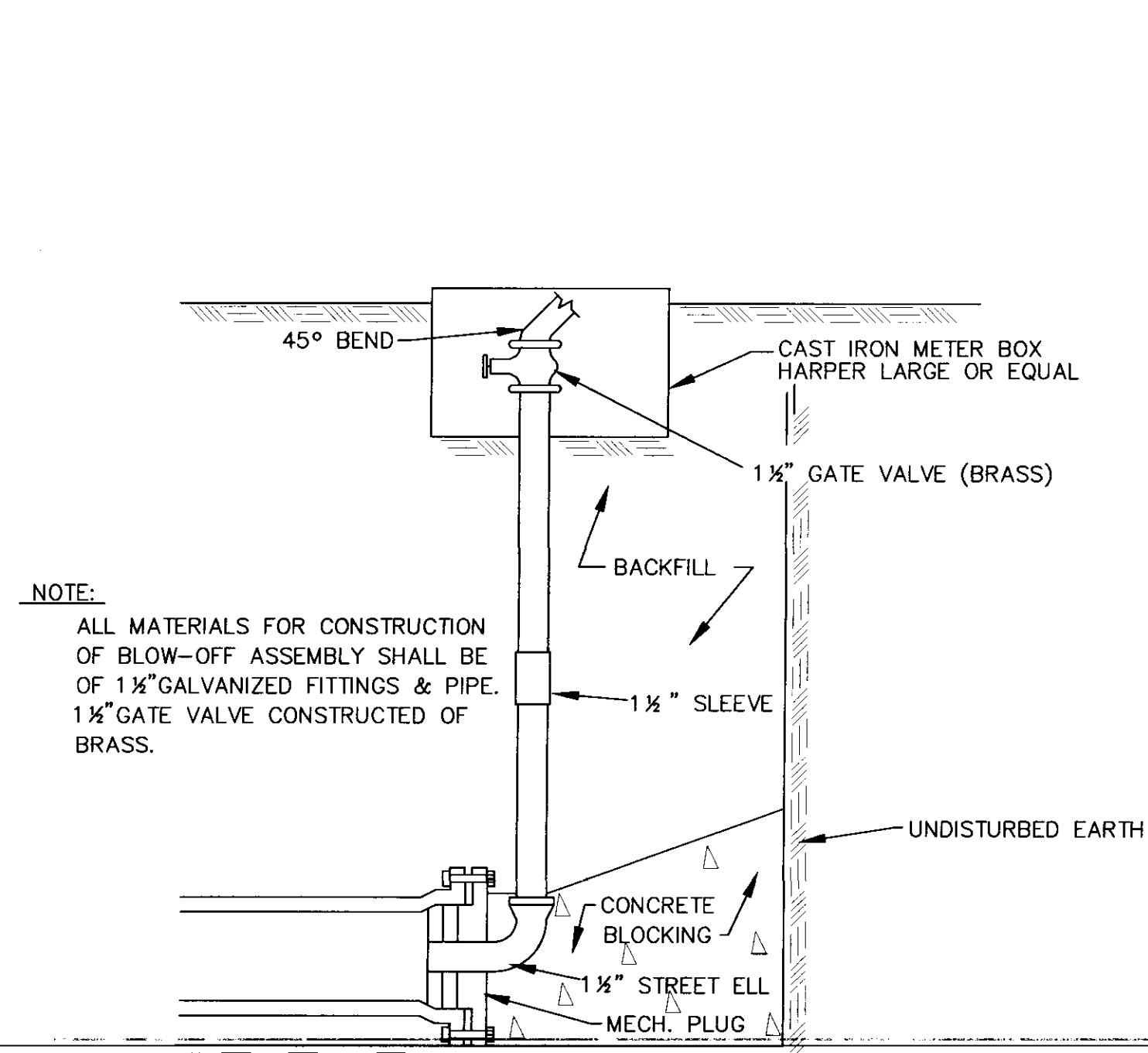
DRAWN BY: RICHARD SOMERS	APPROVED BY: PAT GUEST
DATE: 09-12-2001	PROJ. NO. C-3308
DWG. NO.: 3308-DETAILS-SD	

REVISIONS

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EMAIL: guestcon@eisouth.net

PROJECT
TRACE COLONY PARK

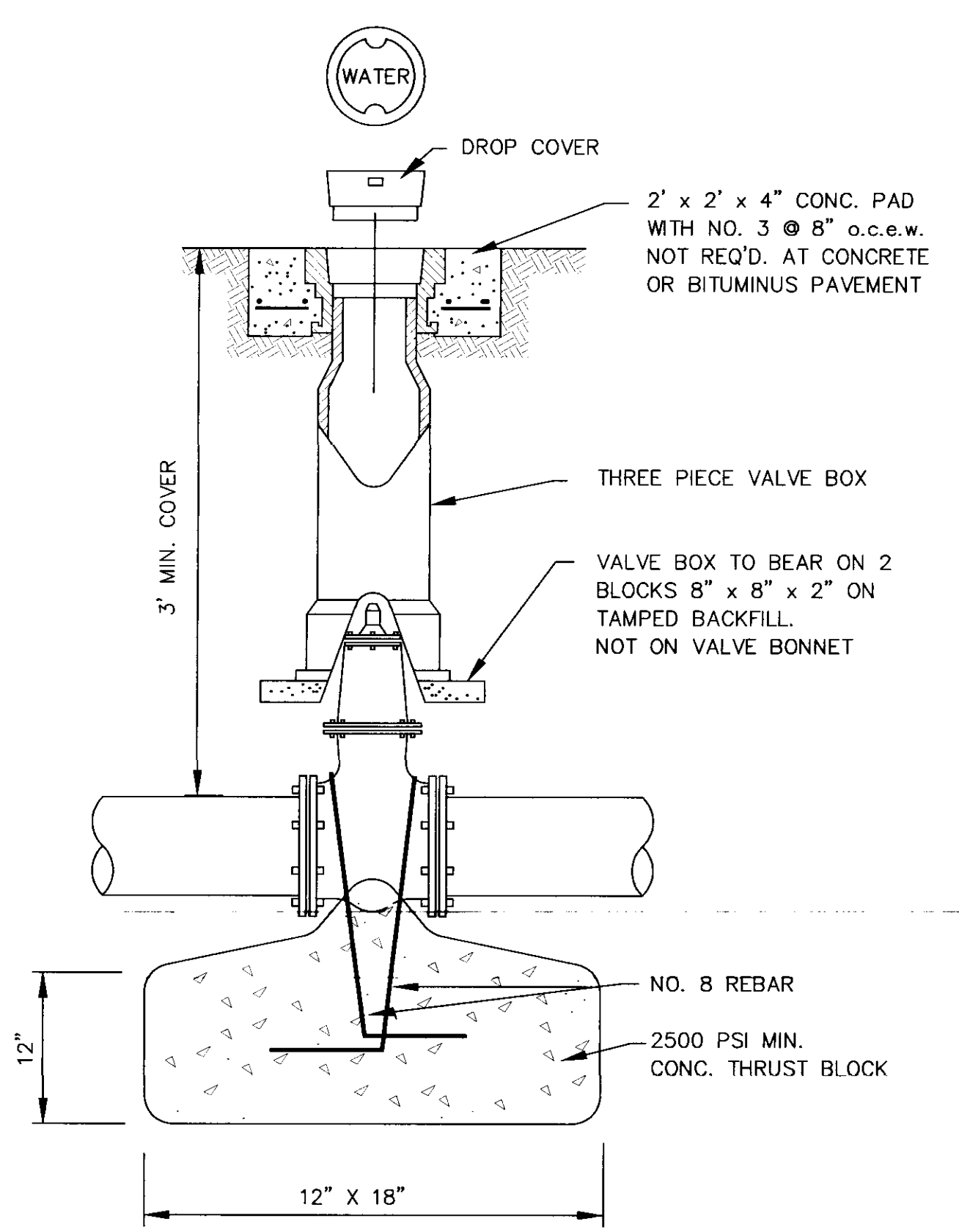
SHT. NO.
STORM DRAIN DETAILS



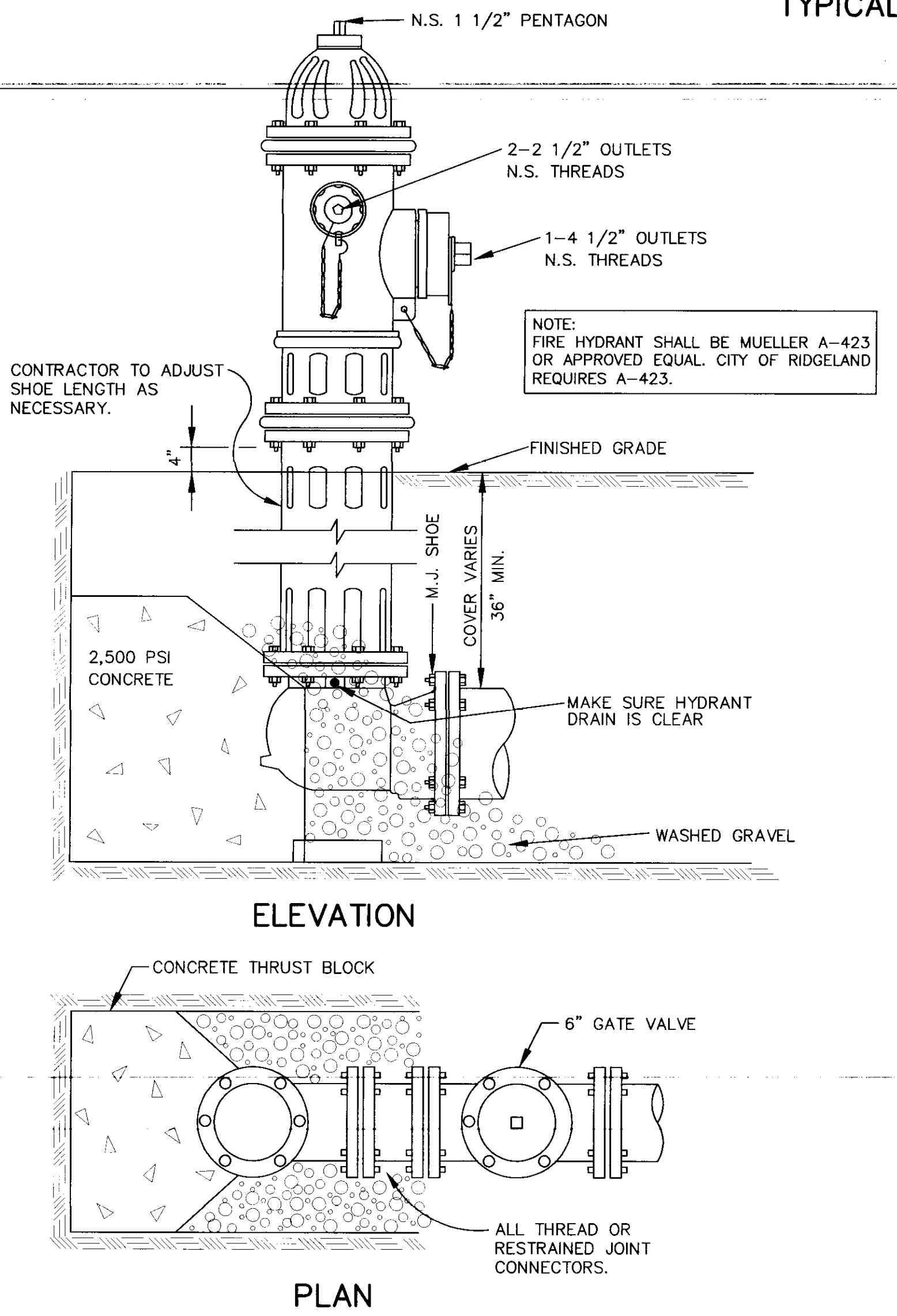
TYPICAL TRENCH DETAILS
CLASS "C"
N.T.S.

TYPICAL 3/4" WATER SERVICE
N.T.S.

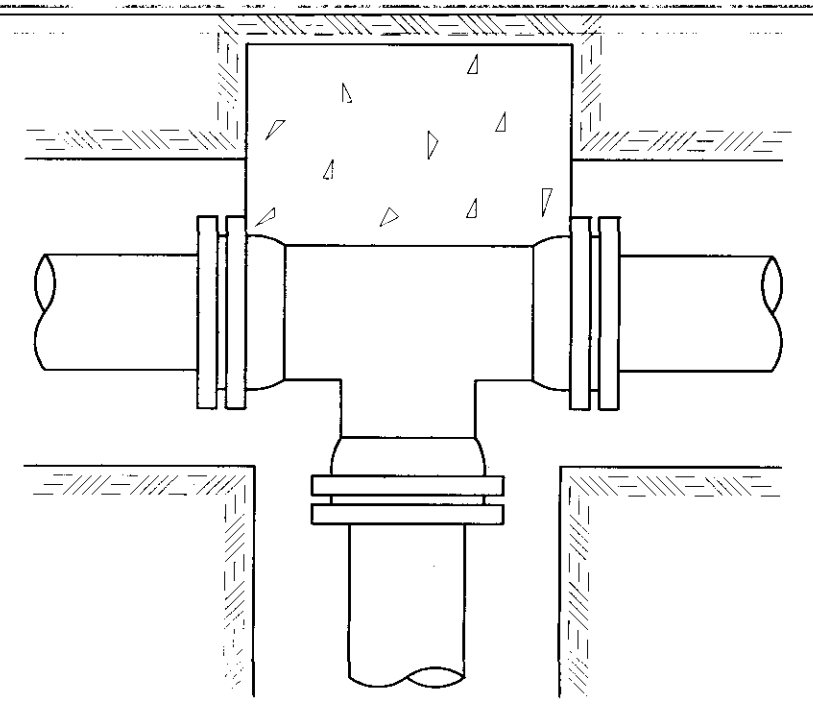
TYPICAL BLOW-OFF ASSEMBLY
N.T.S.



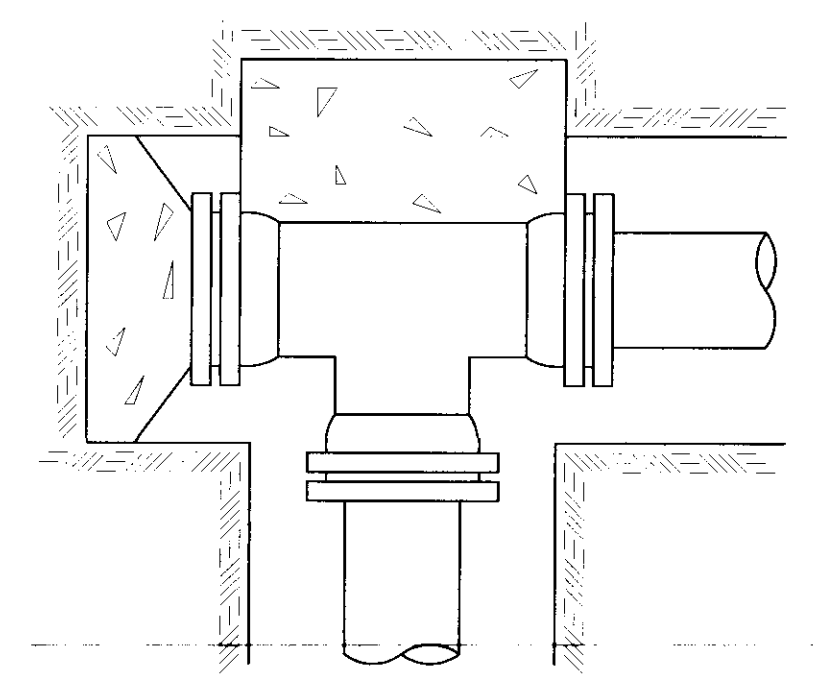
GATE VALVE DETAIL
N.T.S.



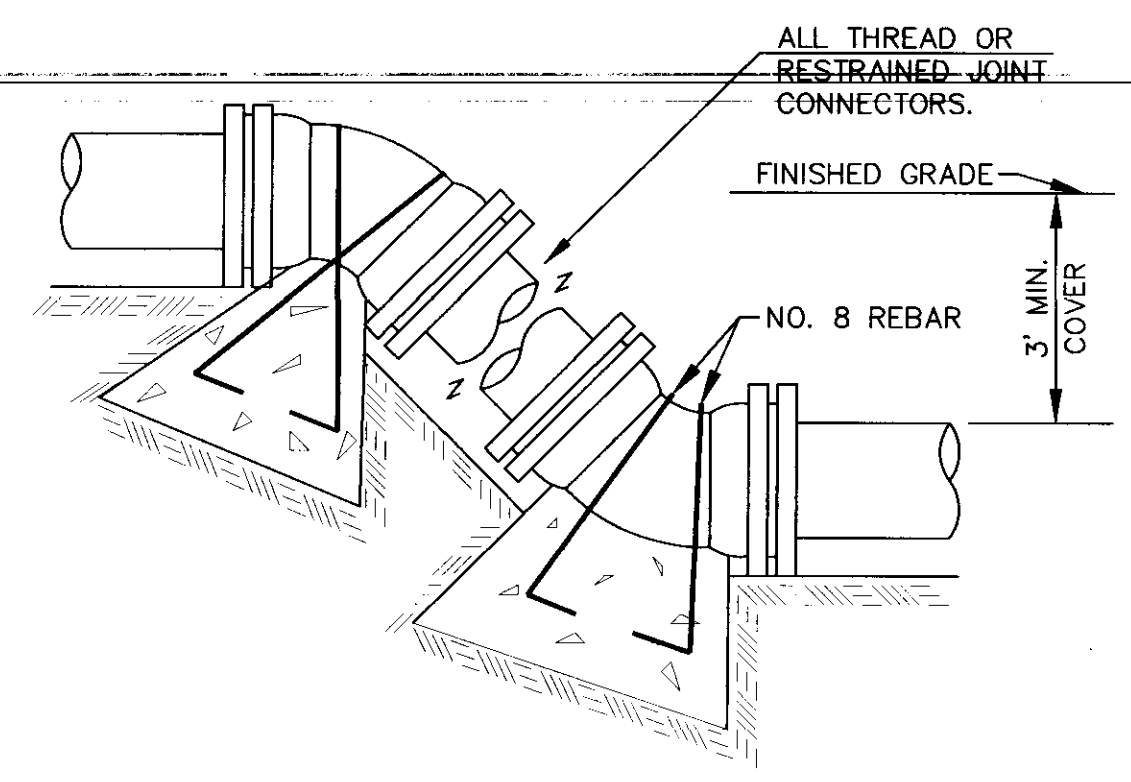
TYPICAL FIRE HYDRANT INSTALLATION
N.T.S.



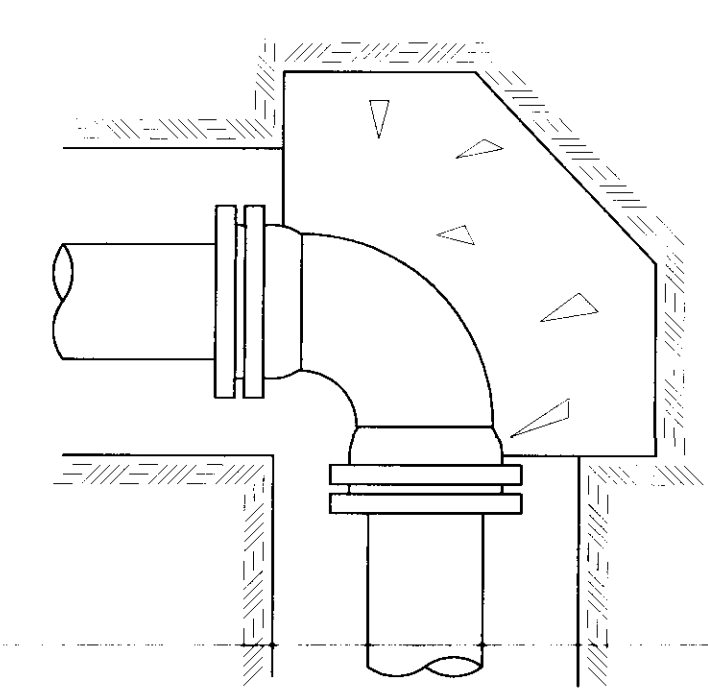
TEE



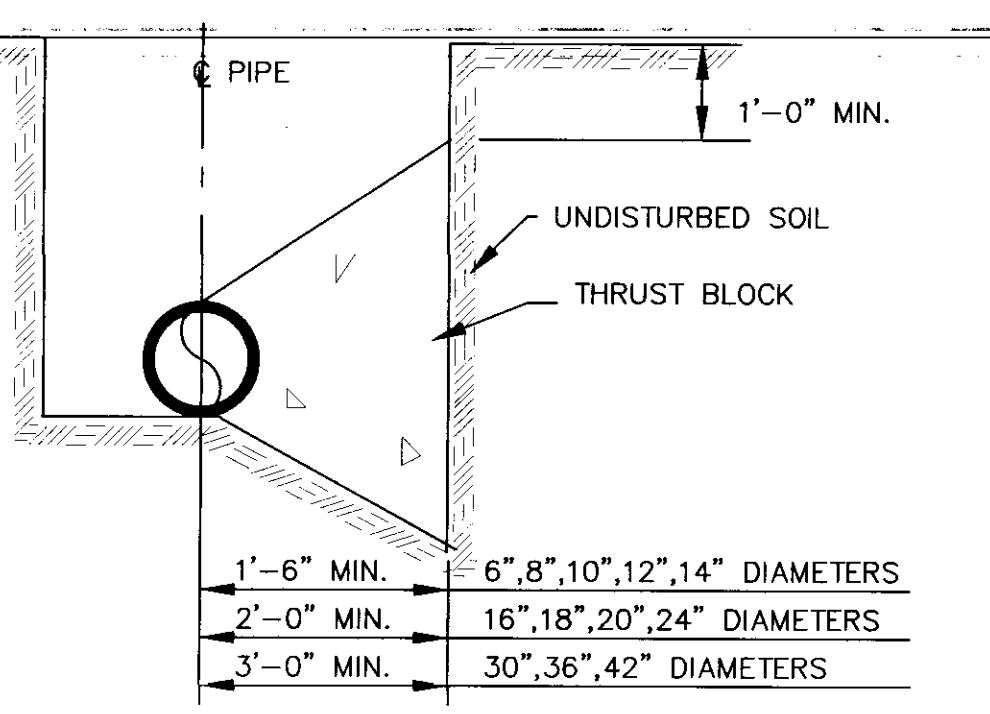
PLUGGED TEE



VERTICAL BENDS



90° BEND



TYPICAL CROSS SECTION

BEARING AREA IN SQ. FT.

NORMAL PIPE DIAMETER (IN.)	DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
2					
4	2.0	2.0	2.0	2.0	2.0
6	2.0	2.0	2.0	2.0	2.0
8	3.0	3.0	2.0	2.0	2.0
10					
12	5.0	6.0	4.0	3.0	3.0
14					
16	8.0	12.0	6.0	4.0	4.0

VERTICAL BENDS

NORMAL PIPE DIAMETER (IN.)	DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
2					
4			6.0(.22)	4.0(.15)	4.0(.15)
6			14.0(.52)	6.0(.22)	4.0(.15)
8			27.0(1.0)	9.0(.33)	6.0(.22)
10					
12			68.0(2.5)	22.0(.80)	9.0(.33)
14					
16			90.0(3.3)	52.0(1.9)	18.0(.67)

VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)

NOTE: ALL THRUST BLOCKS SHALL BE 2,500 PSI CONCRETE AGAINST UNDISTURBED EARTH.

TYPICAL THRUST BLOCKING IN WATER MAINS
N.T.S.

F:\DWG\3308-DETAILS-WTR

DRAWN BY: RICHARD SOMERS
DATE: 09-14-01
DWG. NO.: 3308-DETAILS-WTR

APPROVED BY: PAT GUEST
PROJ. NO.: G-3308

REVISIONS

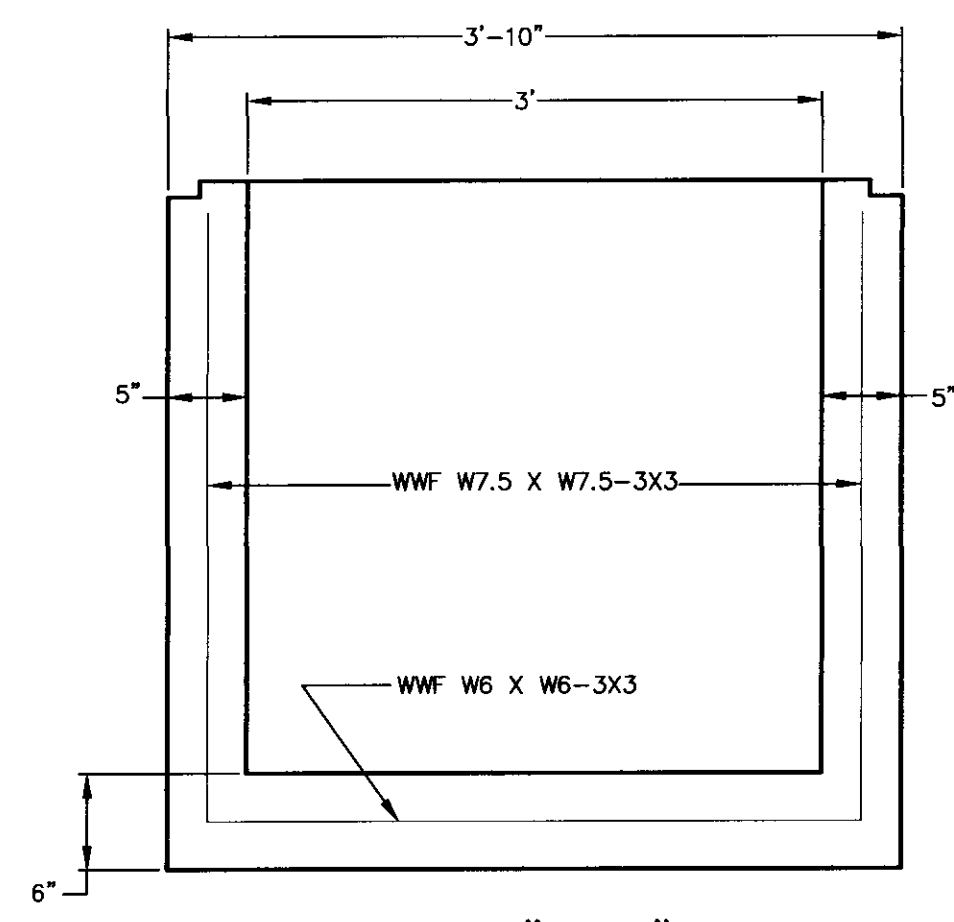
Guest Consultants, Inc.
CONSULTING ENGINEERS • LAND SURVEYORS
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TELEPHONE (601) 825-8341 • FAX (601) 825-3032
EMAIL: guestcon@bellsouth.net

PROJECT: **TRACE COLONY PARK**

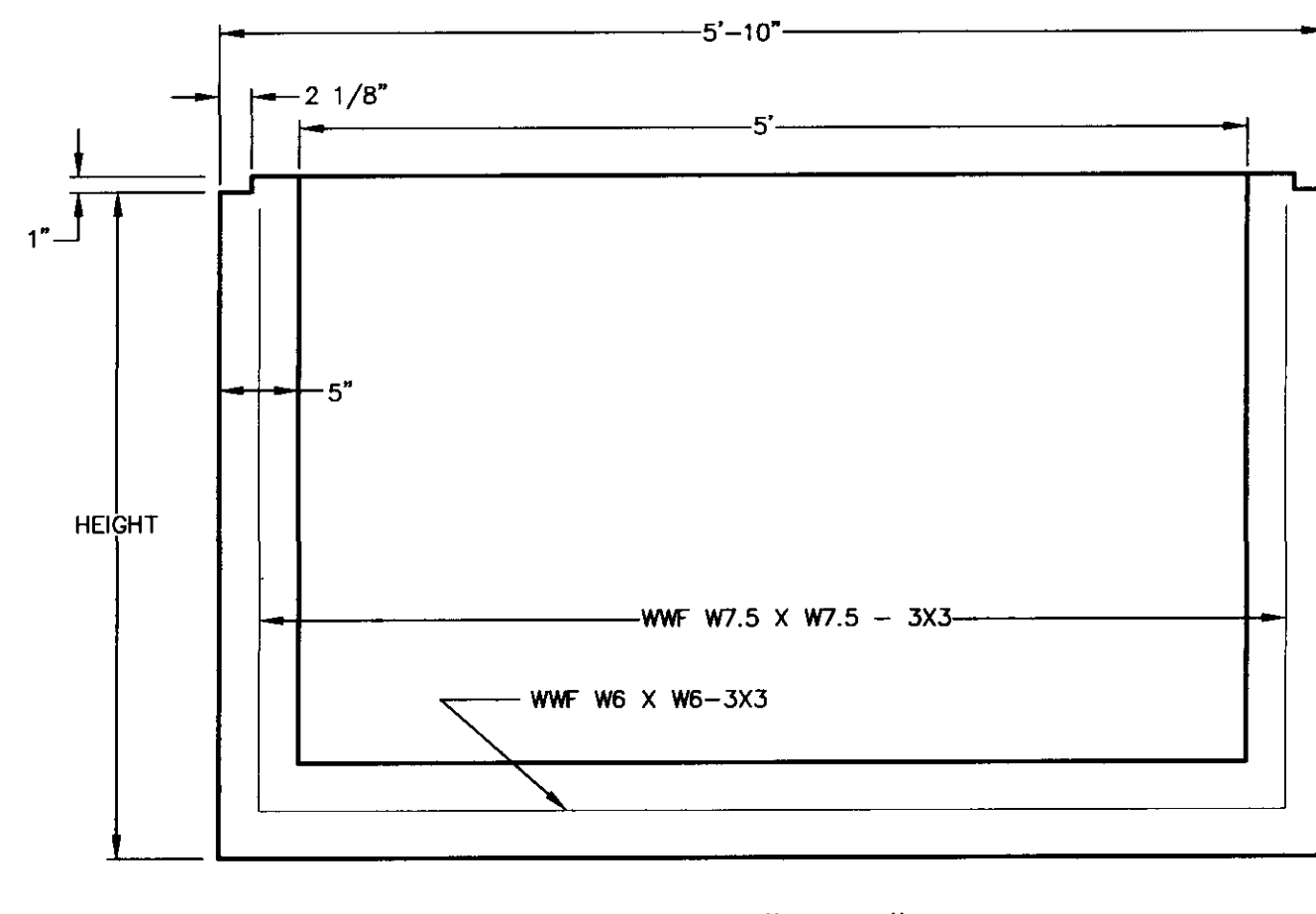
SHT. NAME: **WATER DETAILS**

SHT. NO.: **11**

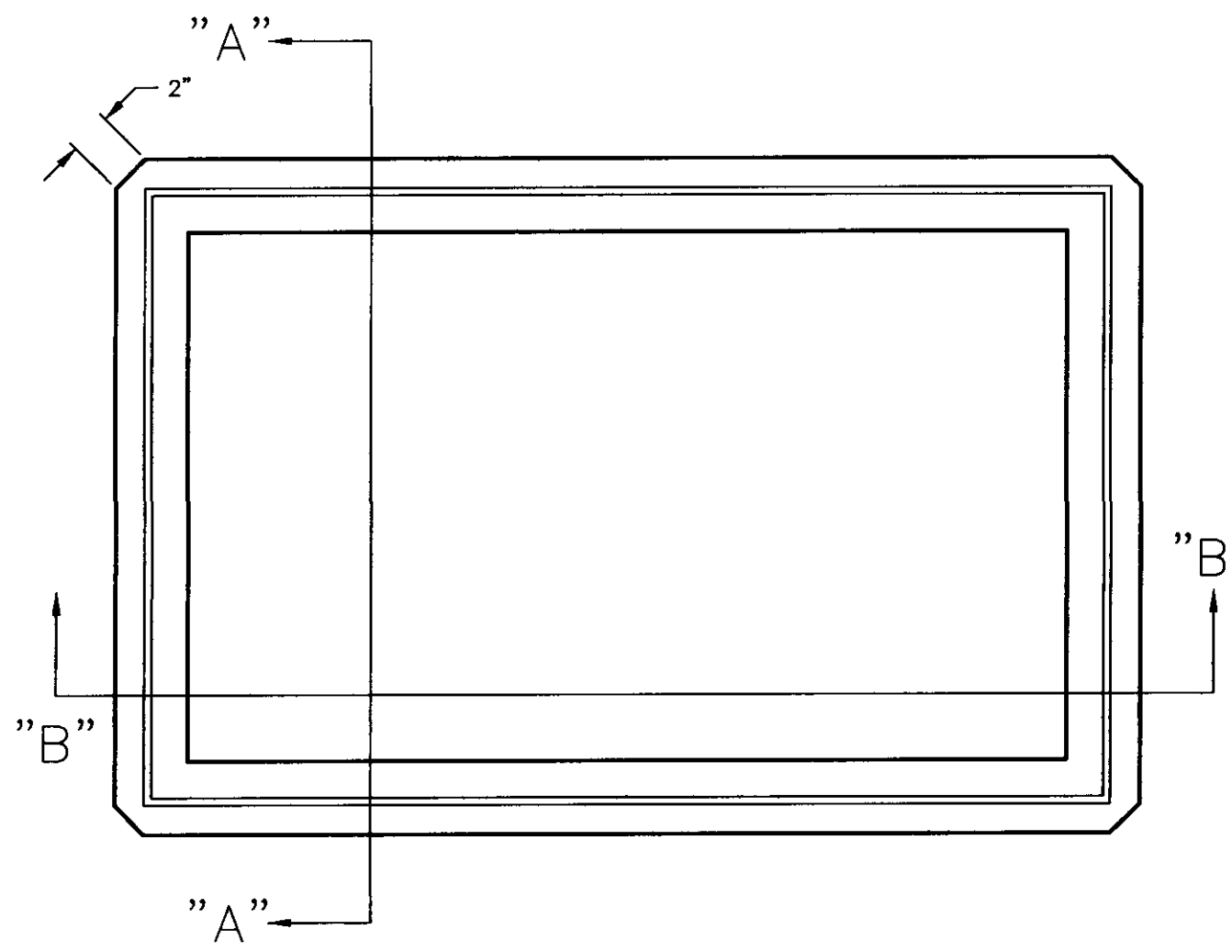
HEIGHT
54"
51"
48"
45"
42"
39"
36"
33"
30"
27"
24"



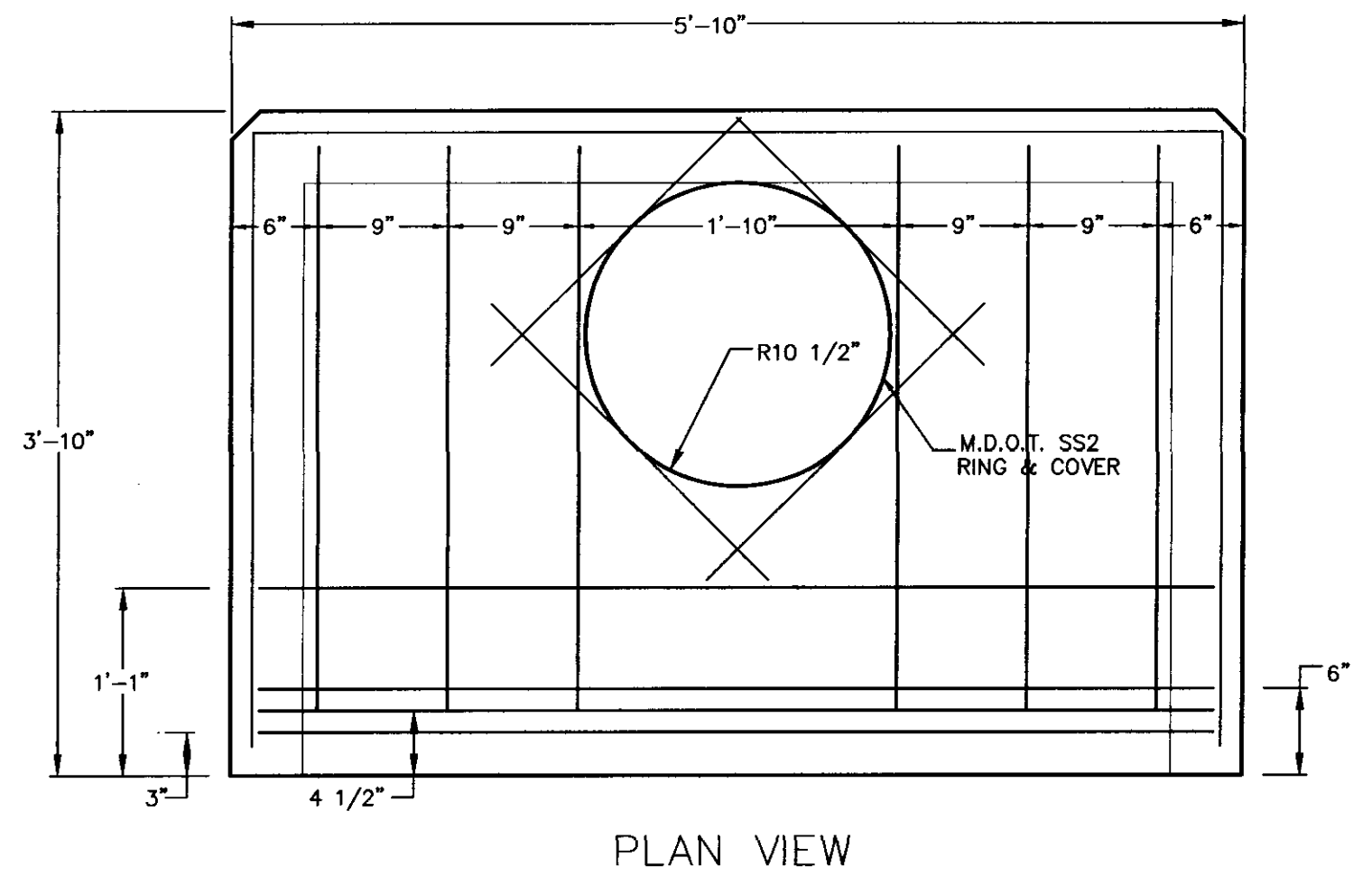
SECTION "A-A"



SECTION "B-B"



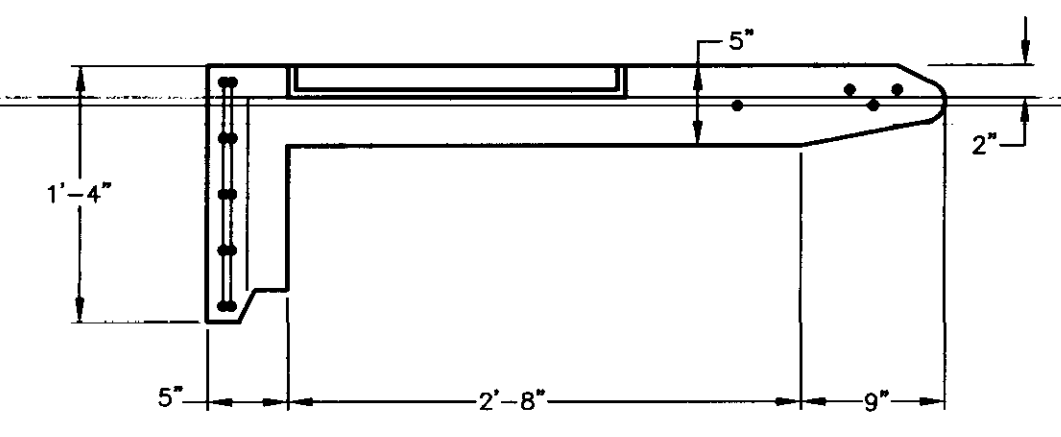
PLAN VIEW - 3'-0" X 5'-0" CURB INLET



PLAN VIEW

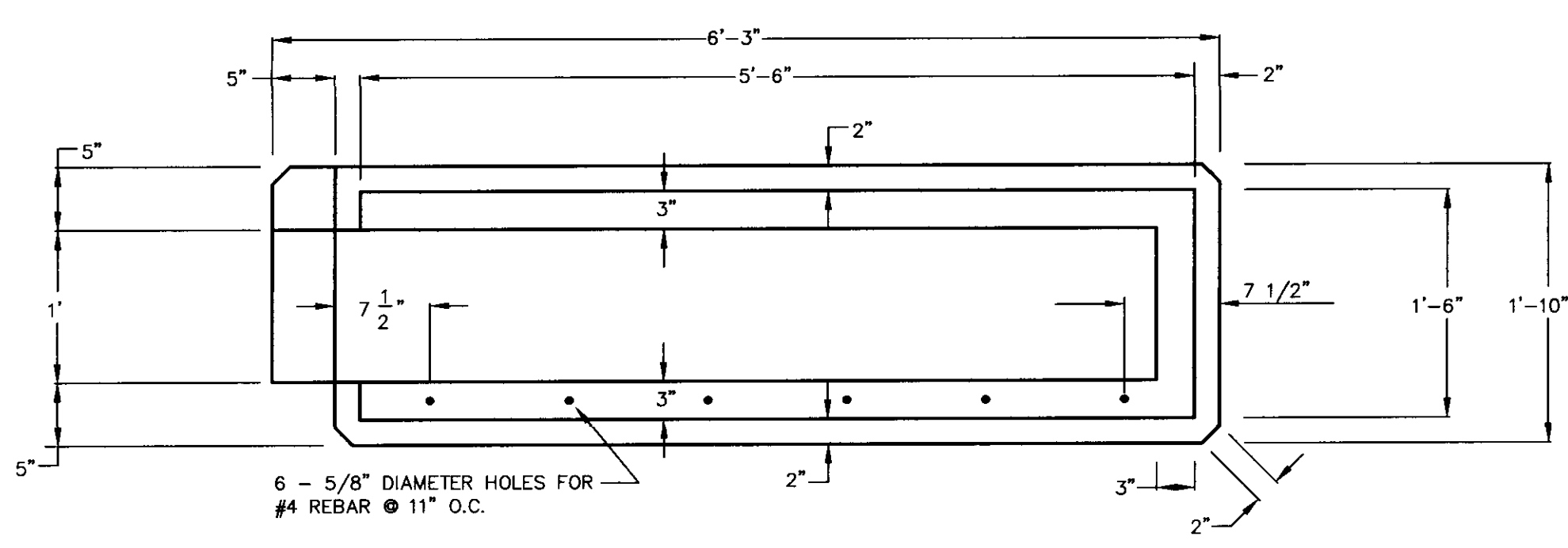
- "A" BARS
3'-8" | 1'-0"
#6 REBAR (6) REQ'D
- "J" BARS
2'-3"
#4 REBAR (4) REQ'D
- "D" BARS
5'-6"
#6 REBAR (1) REQ'D
- "F" BARS
5'-6"
#6 REBAR (3) REQ'D
- WWF 3X3 W7.5 / W7.5
2 ROWS IN SINGLE
VERTICAL CAGE

3' x 5' CURB INLET
N.T.S.

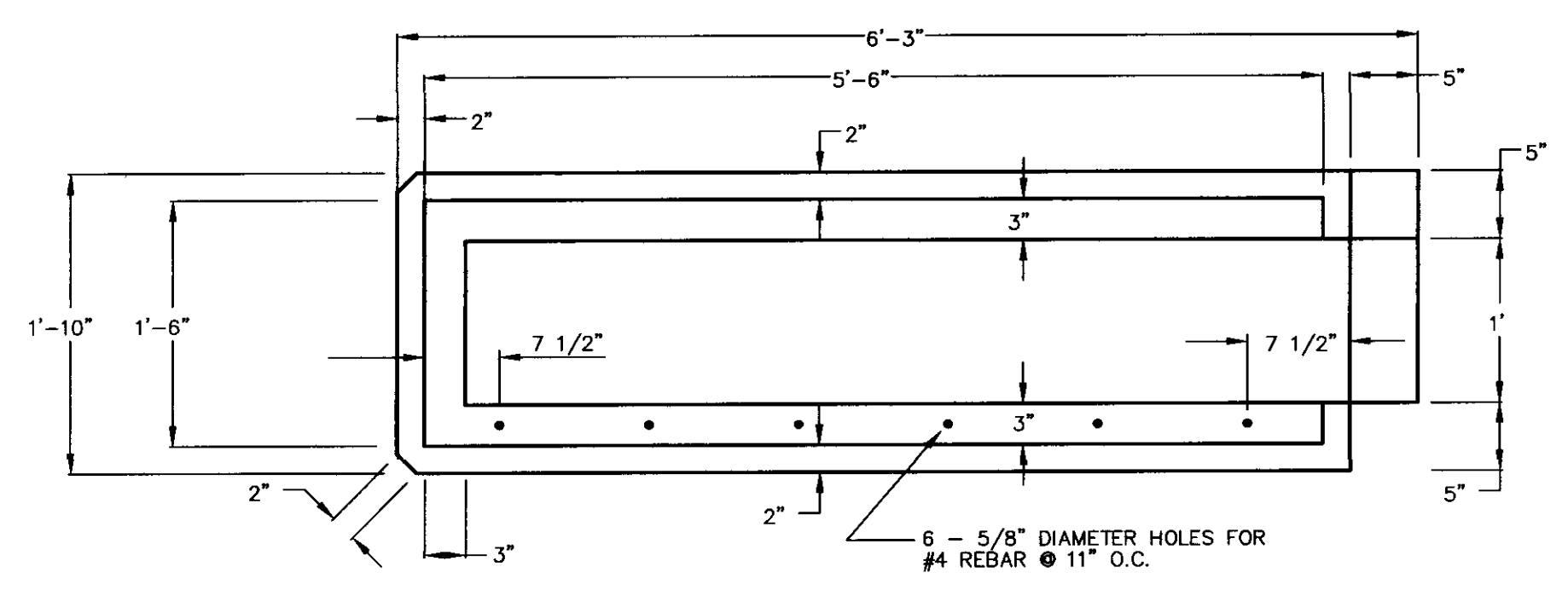


SECTION VIEW

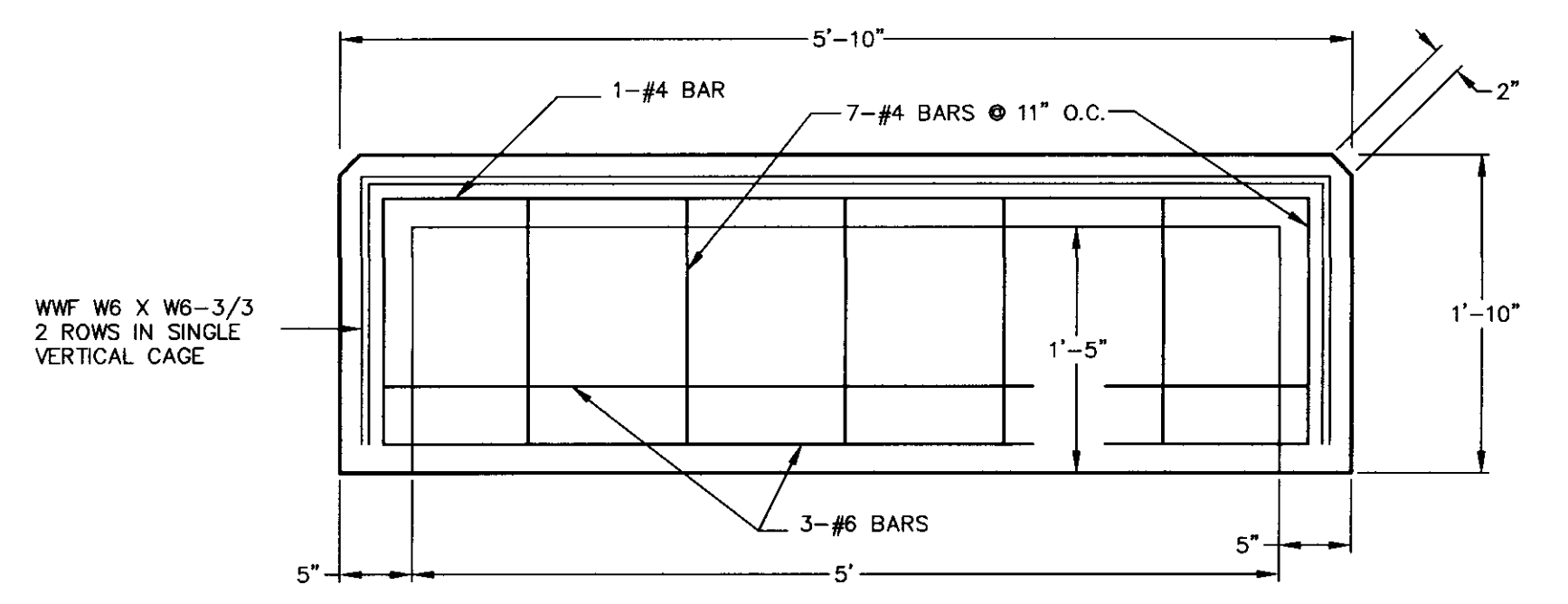
CURB INLET TOP - TYPE 2
N.T.S.



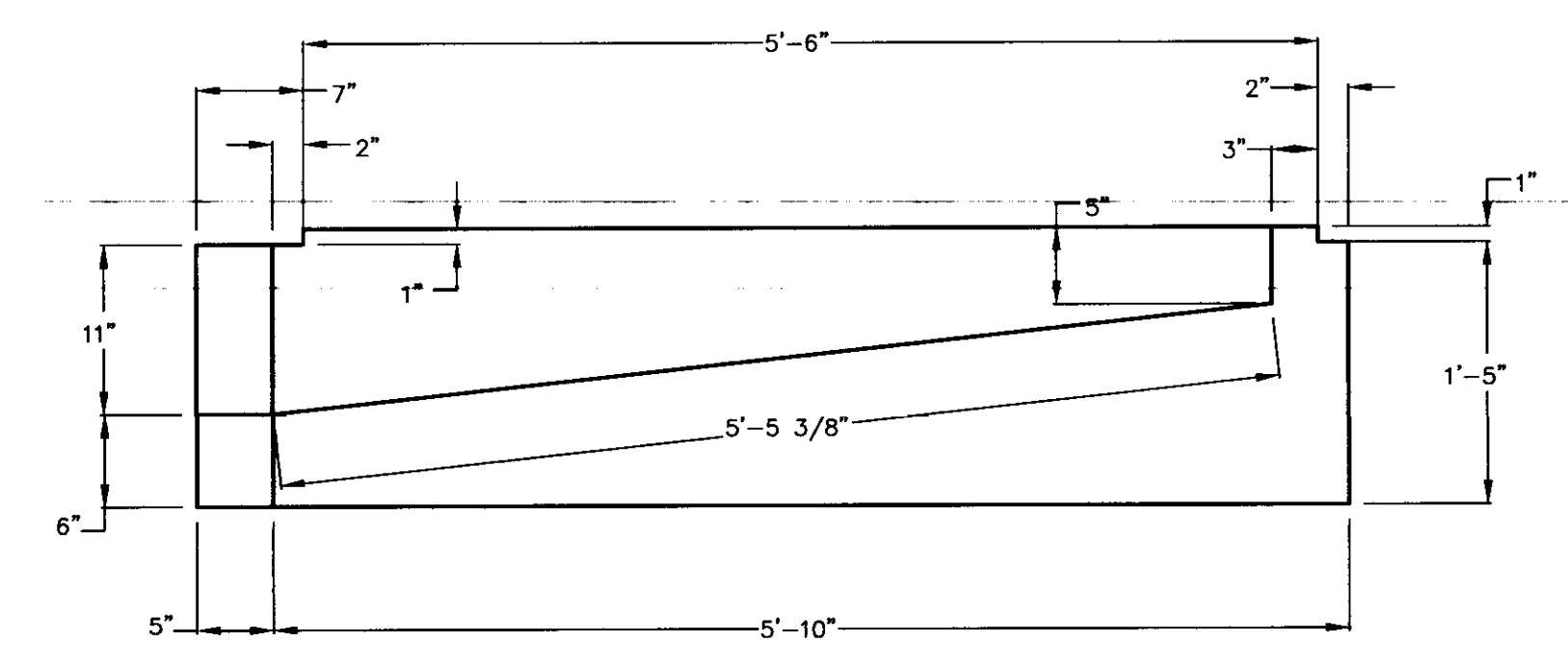
PLAN VIEW



PLAN VIEW

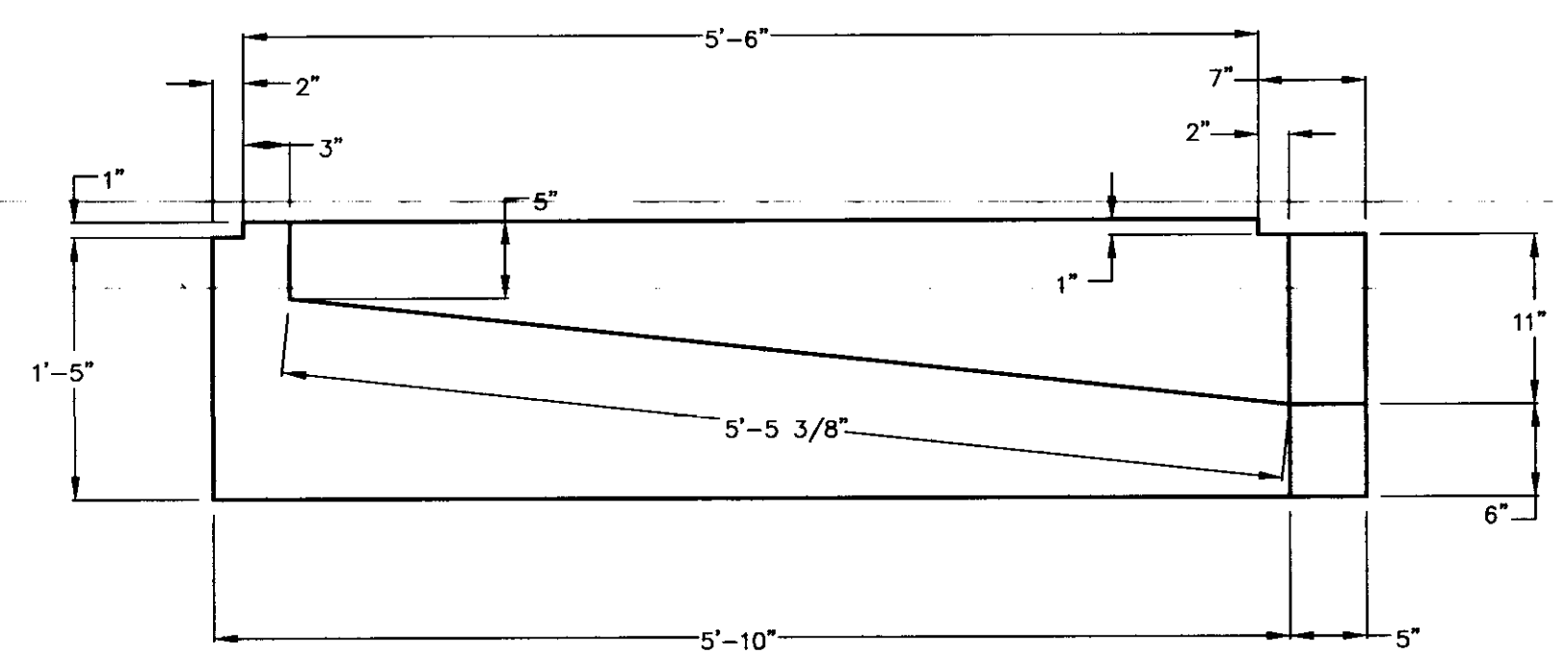


PLAN VIEW-FLAT TOP SLAB-CURB EXTENSION



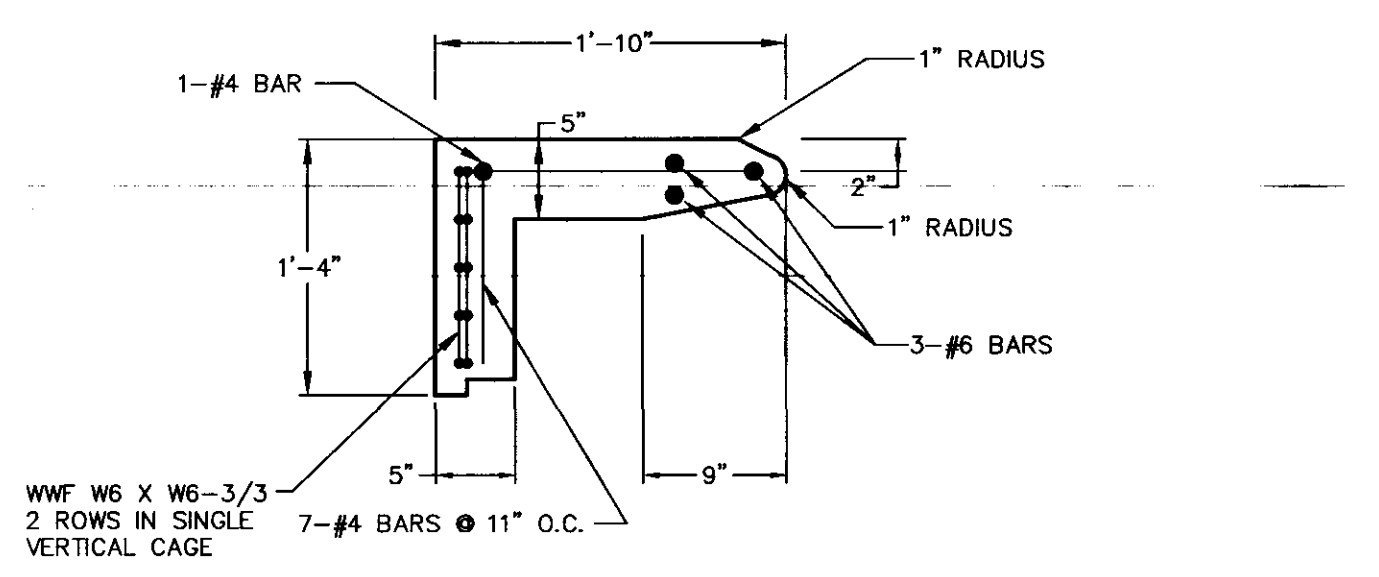
FRONT VIEW

RIGHT CURB INLET EXTENSION
N.T.S.



FRONT VIEW

LEFT CURB INLET EXTENSION
N.T.S.



SECTION VIEW

FLAT TOP SLAB CURB EXTENSION
N.T.S.

P:\DWG\3308-DETAILS-PRECAST

DRAWN BY: RICHARD SOMERS	APPROVED BY: PAT GUEST
DATE: 09-12-2001	PROJ. NO. G-3308
DWG. NO.: 3308-DETAILS-PRECAST	

REVISIONS

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PROJECT
TRACE COLONY PARK

SHT. NAME
PRECAST INLET DETAILS

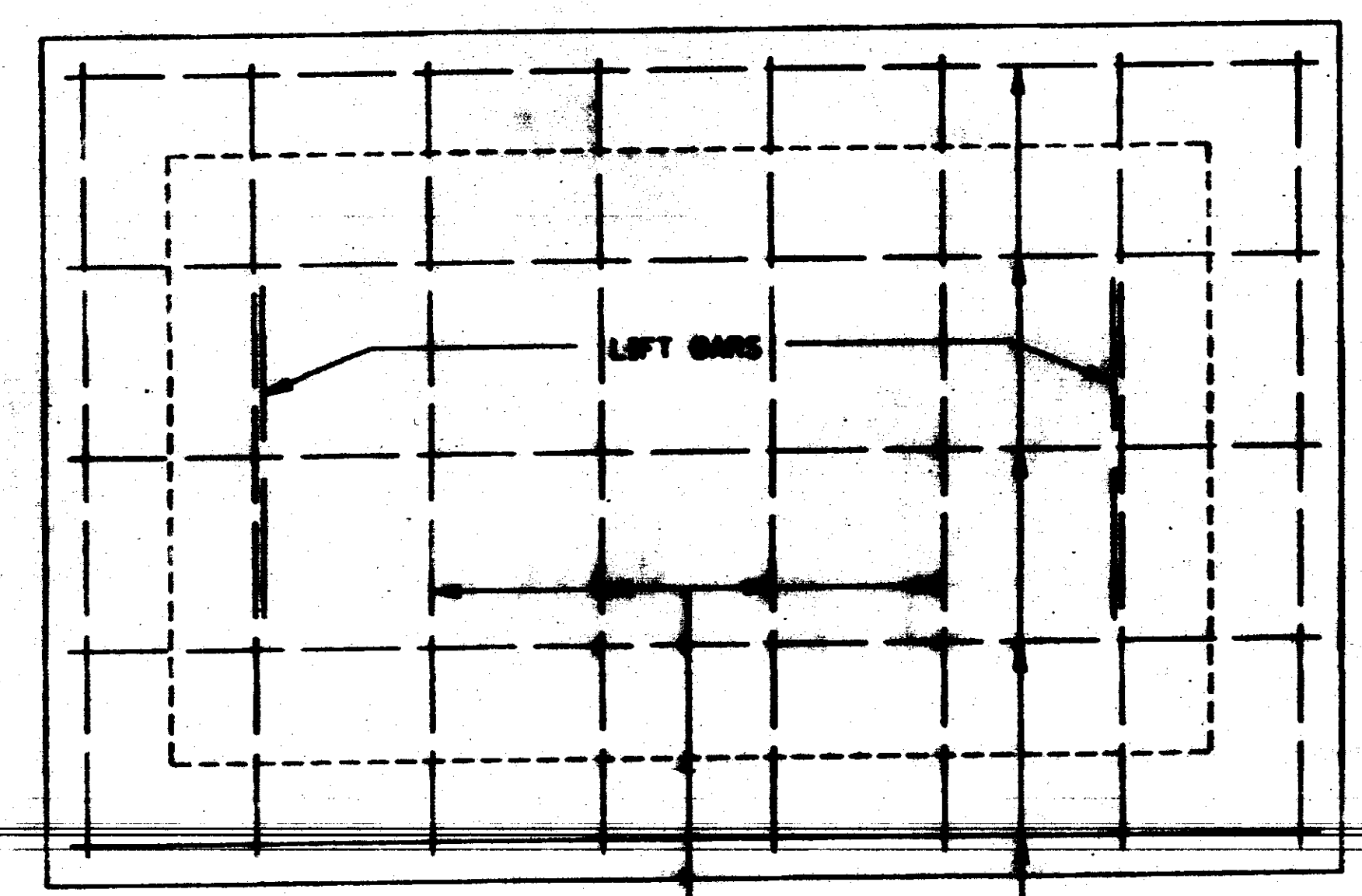
REINFORCING BAR LIST			
BAR	SIZE	NUMBER REQUIRED	LENGTH
A	#4	2 PER PIPE SPACING	$195 \cdot \left(\frac{H}{2} + 2' \right)$
B	#4	2	$R_{1-3} - 6'$
C	#4	2	$R_{2-4} - 6'$
D	#4	4	$H - 6'$
E	#4	$2 \left[\left(\frac{D}{2} \right) + 1 \right]$	$R_{2-4} - 4'$
F	#4	$2 \left[\left(\frac{D}{2} \right) + 1 \right]$	$R_{1-3} - 4'$

NOTE: DIMENSIONS ARE AS FOLLOWS:
 R_{1-3} = RADIUS OF SIDE 1 & SIDE 3
 R_{2-4} = RADIUS OF SIDE 2 & SIDE 4
 H = HEIGHT OF SIDE OF ENTERING PIPE
 D = DIAMETER OF PIPE
 $\bullet\bullet$ = ROUND TO NEAREST WHOLE NUMBER

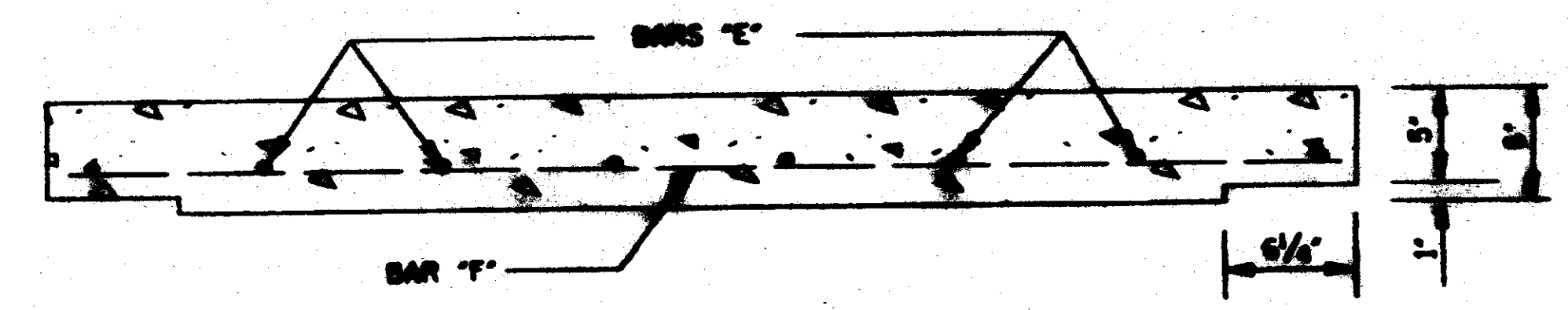
CL. OF SIDE 1 OR SIDE 3, WHICHEVER IS LARGER = \sum PIPE SPACING REDUCTIONS
 WHERE: $Q1 = 80 \cdot R_{1-3} \cdot R_{2-4} \cdot \left[(1 + W_{1-3}) \cdot 12.5 \cdot W_{2-4} - 12.5 \cdot H + (1 + 6 \cdot W_{1-3} \cdot W_{2-4}) \right]$
 $Q2 = 12 \cdot W_{1-3} \cdot (1 + 6 \cdot W_{1-3} \cdot W_{2-4}) \cdot (1 + W_{2-4})$

COMMON PIPE SIZE					
CIRCULAR PIPE			ARCH PIPE		
PIPE SIZE	T	PIPE SPACING REDUCTION (%)	PIPE SIZE	T	PIPE SPACING REDUCTION (%)
18"	2 1/2"	0.153	22" x 15"	2 1/2"	0.153
24"	3"	0.167	30" x 20"	3"	0.167
30"	3 1/2"	0.180	36" x 27"	3 1/2"	0.180
36"	4"	0.196	44" x 27"	4"	0.195
42"	4 1/2"	0.213	51" x 31"	4 1/2"	0.245
48"	5"	0.229	60" x 36"	5"	0.280
54"	5 1/2"	0.247	66" x 42"	5 1/2"	0.324
60"	6"	0.263	73" x 45"	6"	0.409
66"	6 1/2"	0.280			
72"	7"	0.297			

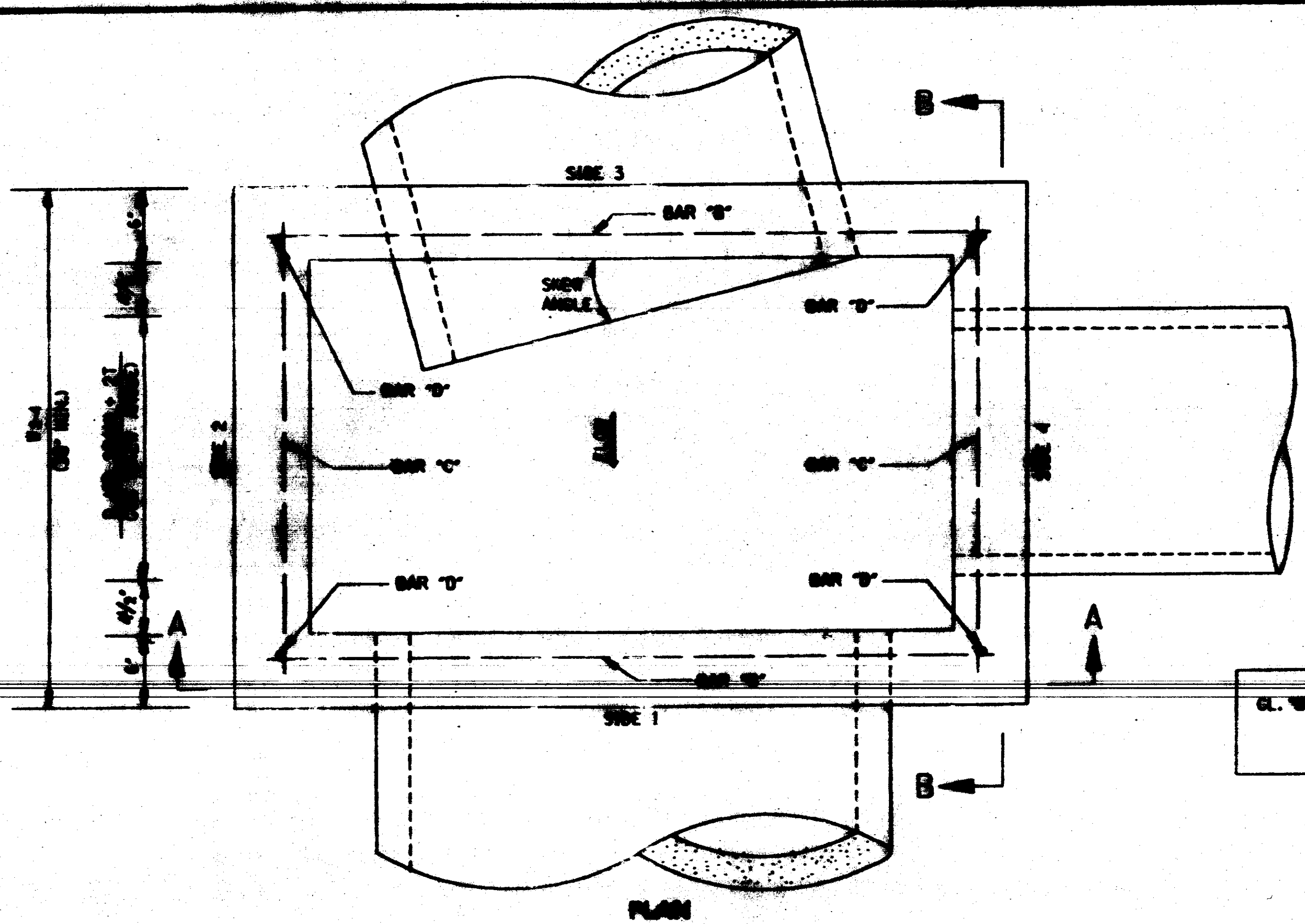
- GENERAL NOTES:
- REINFORCING STEEL QUANTITIES TO BE COMPUTED FROM BAR LIST AND SHOWN ELSEWHERE ON THE PLANS.
 - QUANTITIES FOR JUNCTION BOXES SHOWN ON THE PLANS WILL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
 - CONCRETE SHALL BE CLASS "B" AND REINFORCING STEEL SHALL BE DEFORMED BARS.
 - SIDE 1 OF THE JUNCTION BOX WILL ALWAYS BE THE OUTFLOW SIDE.
 - IF PIPES ARE SPACED MORE THAN 10" OR 1" SPACED PIPES PROVIDE COMPENSATION WITH OTHER OPENING, THE PIPE SHALL BE GROWN BACK TO THE WALL OF THE JUNCTION BOX.



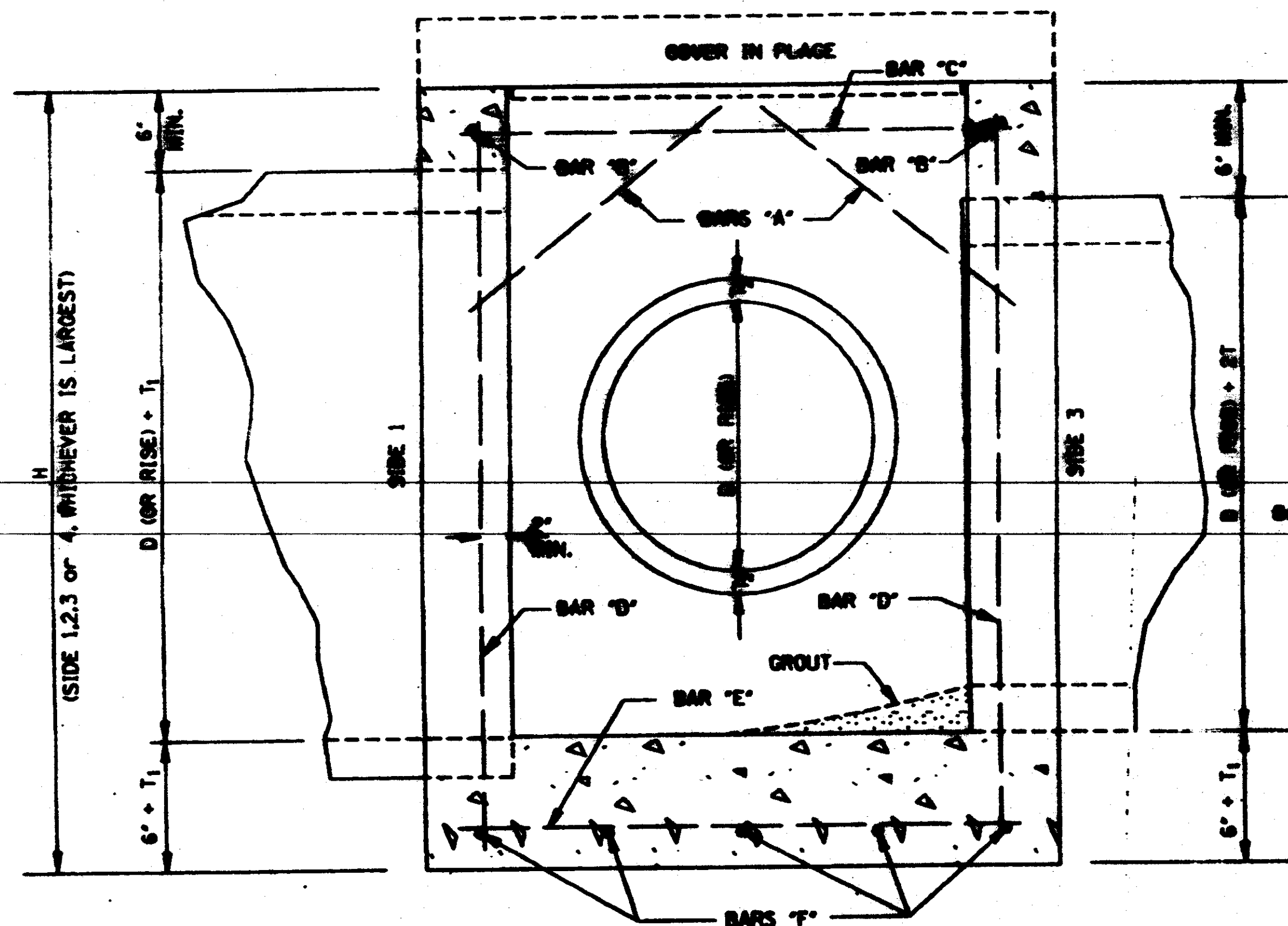
PLAN OF COVER



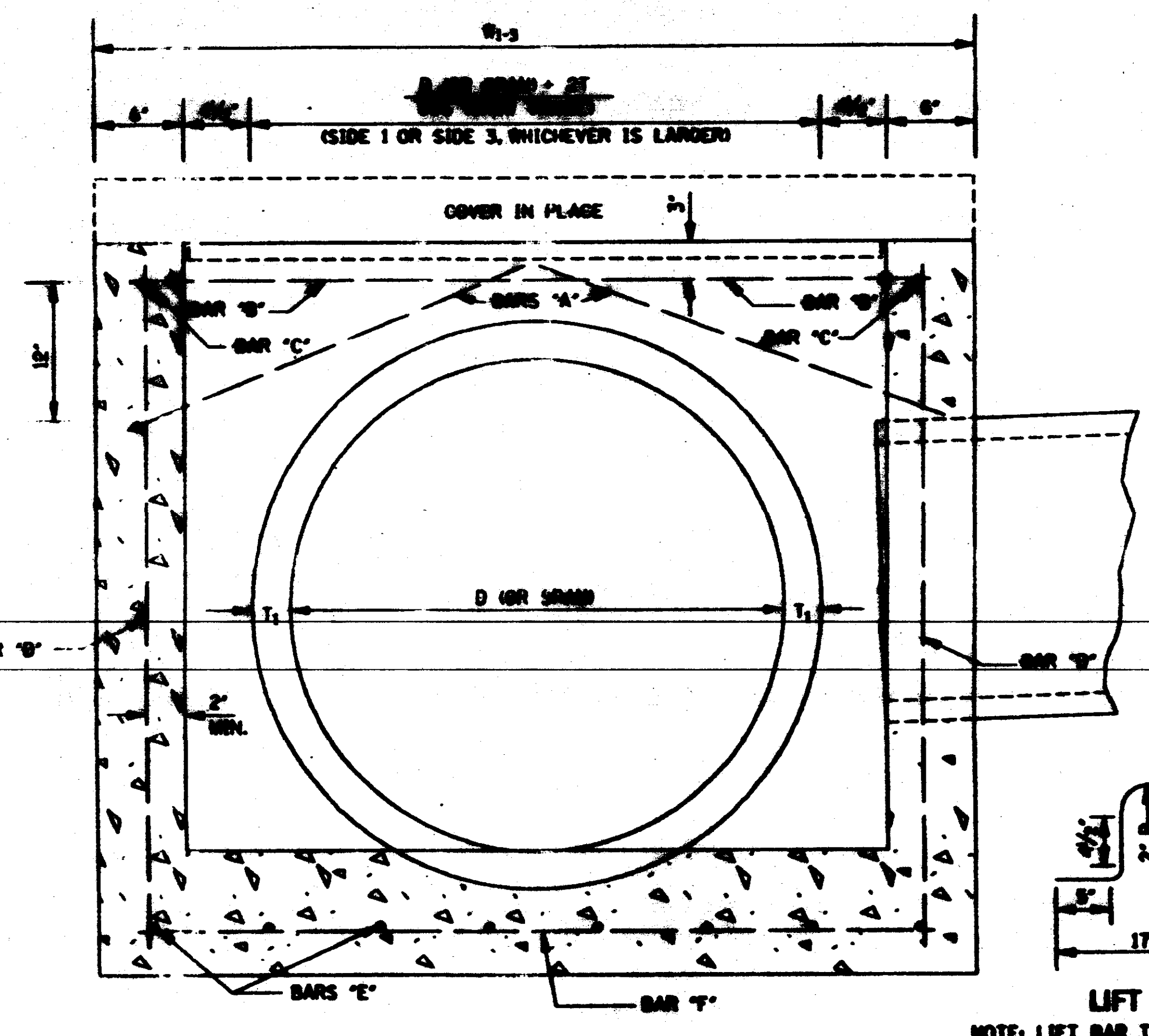
ELEVATION OF COVER



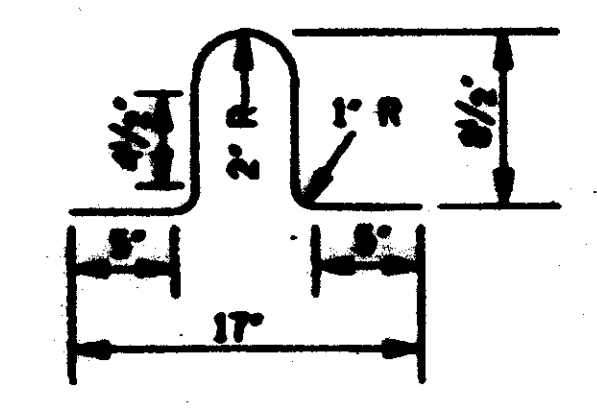
PLAN



SECTION B-B



SECTION A-A



LIFT BAR

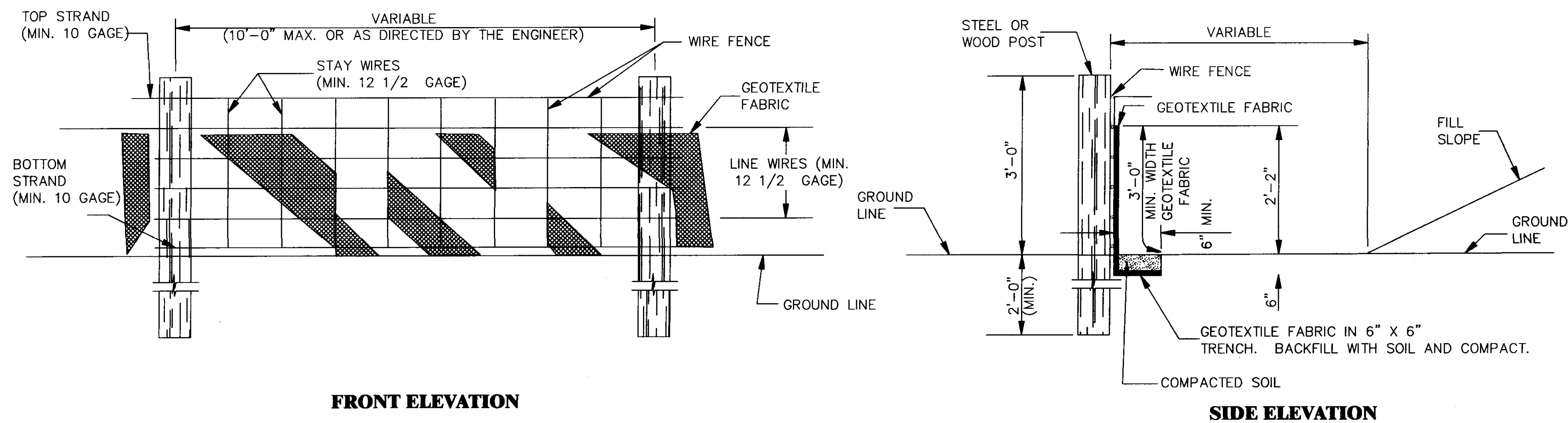
NOTE: LIFT BAR TO BE FABRICATED FROM A #4 BAR 30" LONG. TWO LIFT BARS ARE REQUIRED. REINFORCING STEEL FOR 2 LIFT BARS = 3.3 lbs.

MIDDLEMISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN

JUNCTION BOX FOR PIPE CULVERTS

ISSUE DATE: OCTOBER 1, 1998

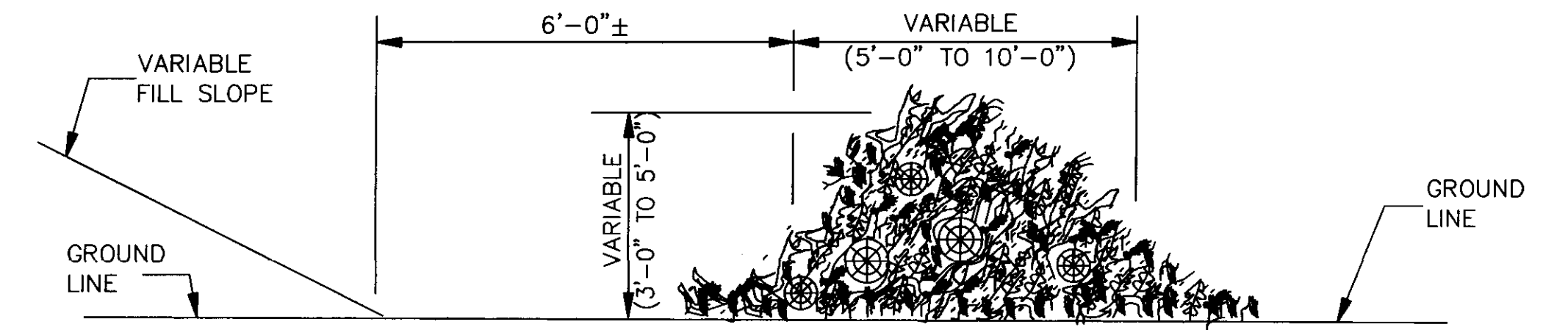
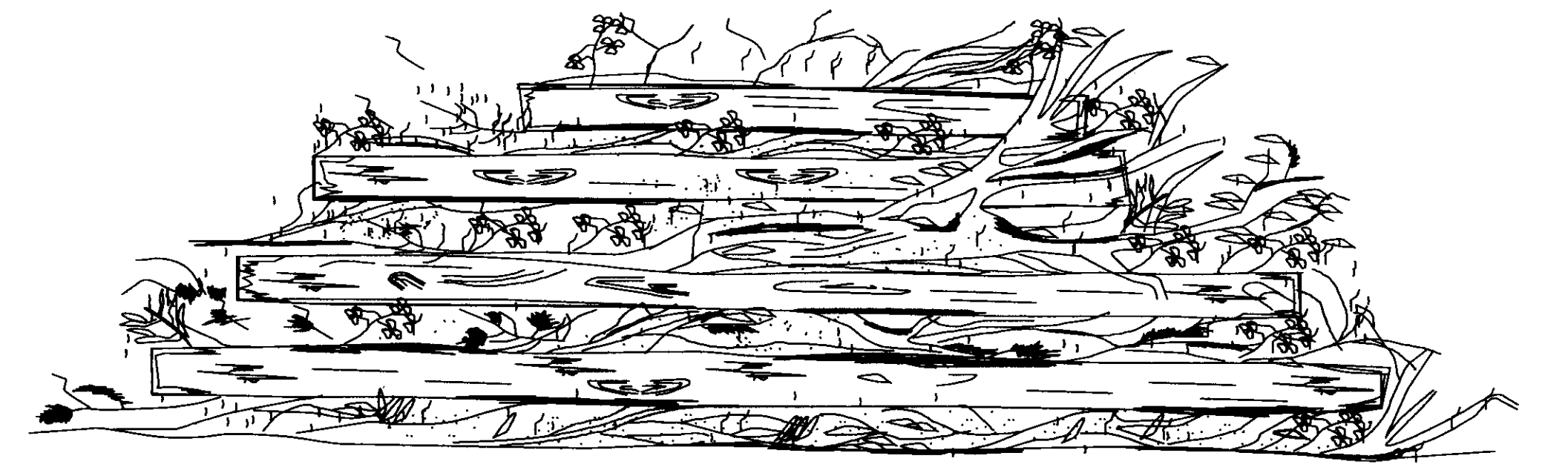
PROJECT NO. _____
 SHEET NO. JB-1



FRONT ELEVATION

SIDE ELEVATION

TEMPORARY SILT FENCE



TEMPORARY BRUSH BARRIER

NOTES:

- BRUSH BARRIER TO BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
- PLACE BRUSH, LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TOP TO PROPERLY SECURE THE BARRIER AS DETAILED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- TO ALLOW WATER TO FLOW THROUGH BRUSH BARRIER, INTERMINGLE THE BRUSH, LOG AND TREE LAPS SO AS NOT TO FORM A SOLID DAM.

NOTES:

- WIRE SHALL BE MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
- GEOTEXTILE FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
- STEEL POST SHALL BE 5'-0" IN HEIGHT AND OF THE SELF-FASTENER ANGLE STEEL TYPE. WOOD POST SHALL BE A MINIMUM OF 5'-0" IN HEIGHT 3" OR MORE IN DIAMETER. WIRE FENCE SHALL BE FASTENED TO WOODEN POST WITH NOT LESS THAN 9 GAGE WIRE STAPLES 1" LONG.
- GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATIONS MAY BE USED WITHOUT WIRE FENCE.

GENERAL NOTES:

- THE CONTRACTOR SHALL BE REQUIRED TO FURNISH ALL MATERIALS AND PERFORM ALL WORK FOR THE PROPER INSTALLATION, MAINTENANCE, REMOVAL OF TEMPORARY EROSION CONTROL MEASURES NECESSARY TO CONTROL SILTATION.
- TEMPORARY BRUSH BARRIERS SHALL BE USED AS REQUIRED BUT WILL NOT BE MEASURED FOR SEPARATE PAYMENT.
- THE USE OF TEMPORARY EROSION CONTROL MEASURES OTHER THAN TEMPORARY BRUSH BARRIERS WILL ONLY BE REQUIRED AND MEASURED FOR SEPARATE PAYMENT WHEN APPROPRIATE PAY ITEM(S) IS INCLUDED IN THE BID SCHEDULE OF THE PROPOSAL.

MAINTENANCE PLAN

SHORT TERM

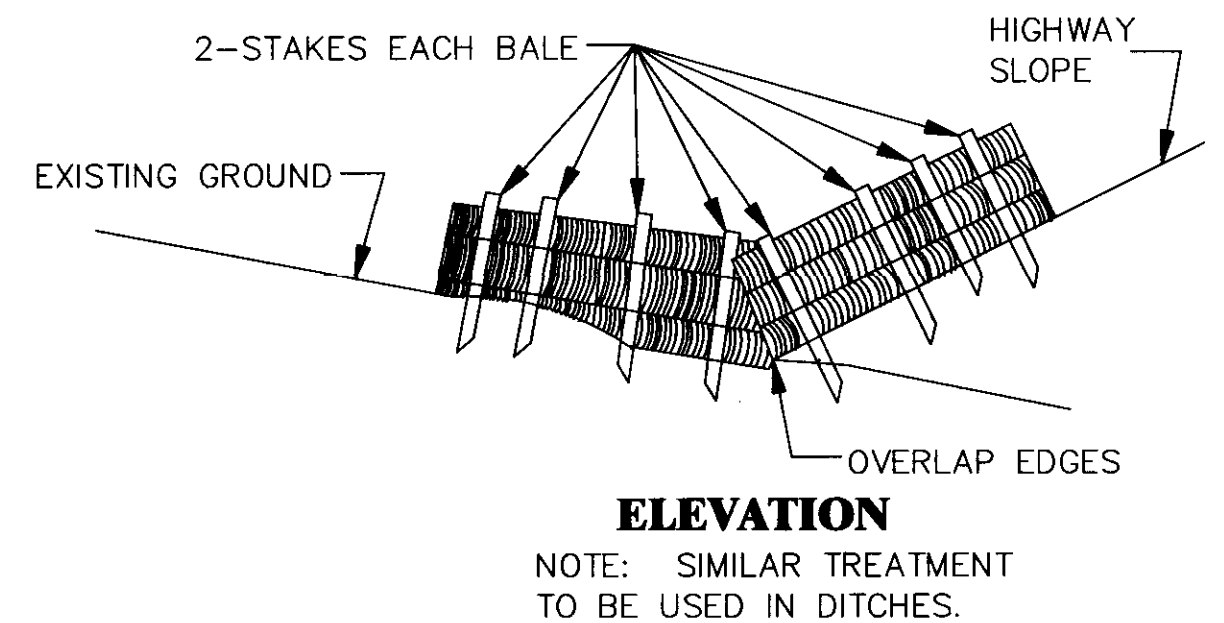
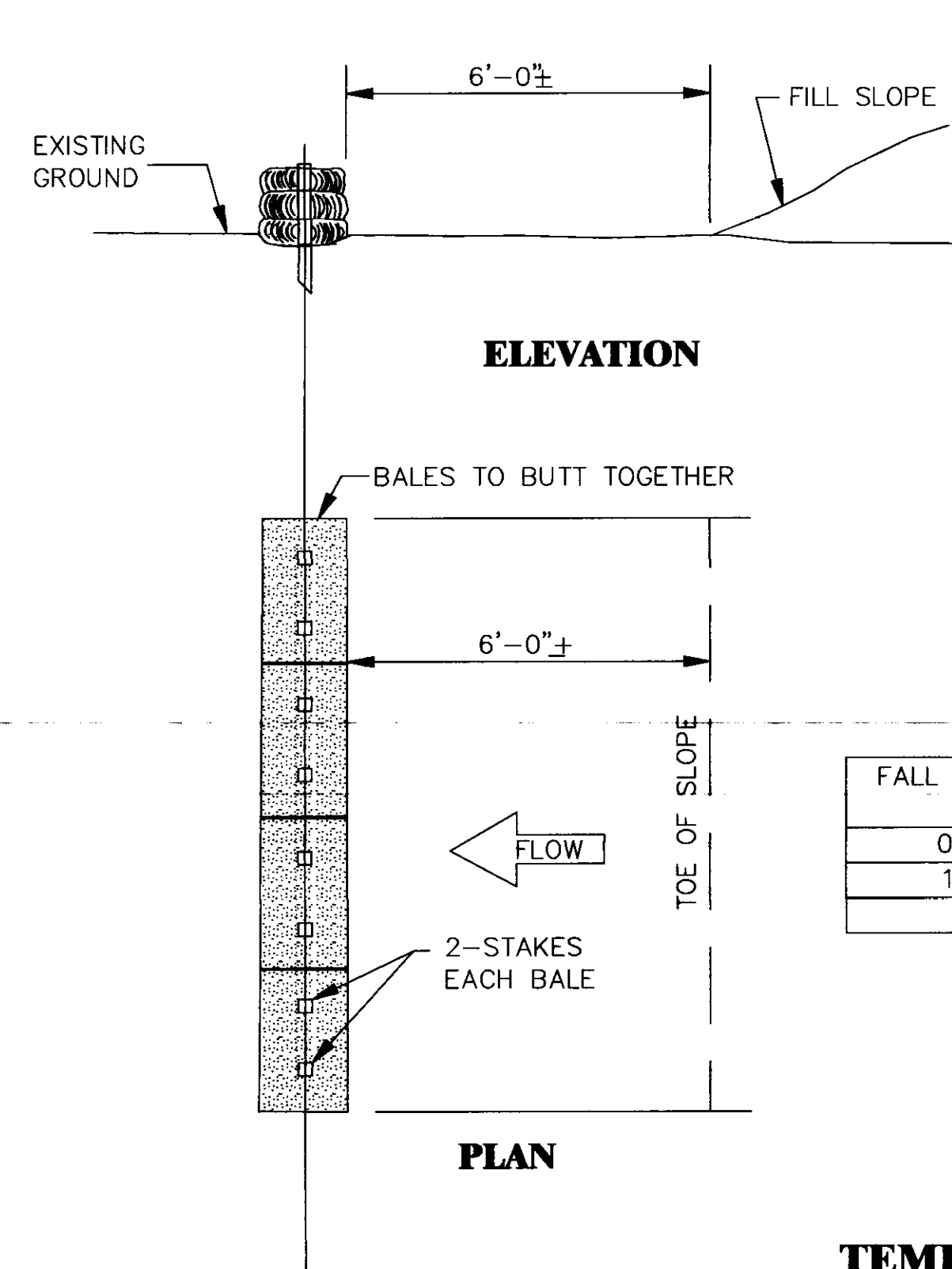
- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE LESS THAN EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES DESIGNED.
- SILT FENCE SHALL BE USED ON THE DOWNSTREAM SIDE OF ANY AREA WHERE NATURAL VEGETATION IS DISTURBED.
- SEDIMENT WILL BE REMOVED FROM THE INLET PROTECTION DEVICES WHEN IT REACHES A MAXIMUM OF 6 INCHES DEEP. THE DEVICE WILL BE REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
- ALL SEEDED AREAS WILL BE FERTILIZED AND RESEEDED AS NECESSARY TO MAINTAIN A DENSE VEGETATIVE COVER.
- ANY DISTURBED AREAS THAT WILL BE LEFT UNDISTURBED FOR THIRTY DAYS OR MORE WILL BE SEEDED WITH TEMPORARY SEEDING WITHIN SEVEN CALENDAR DAYS.

LONG TERM

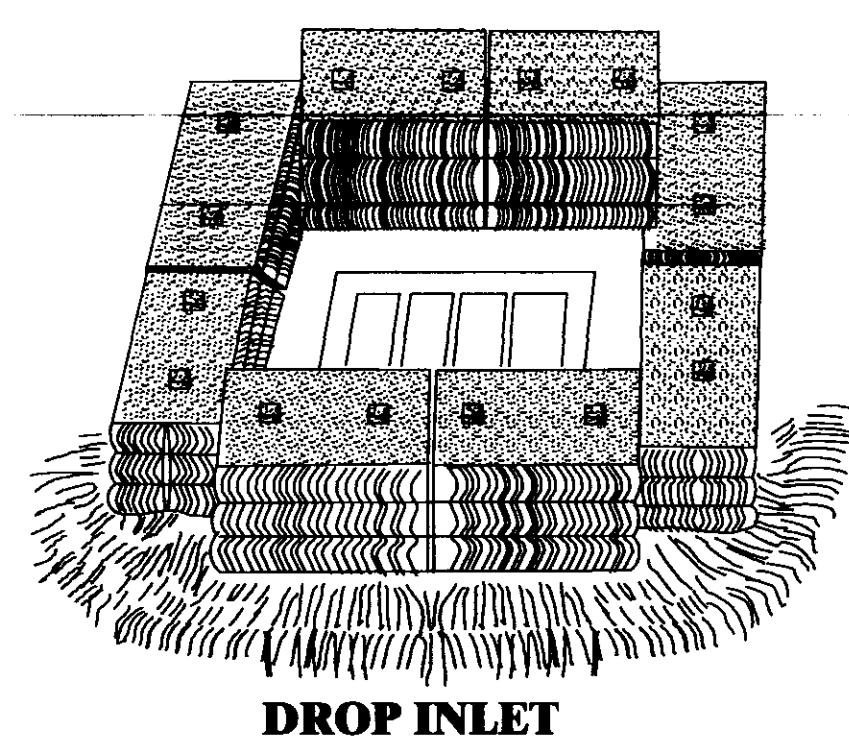
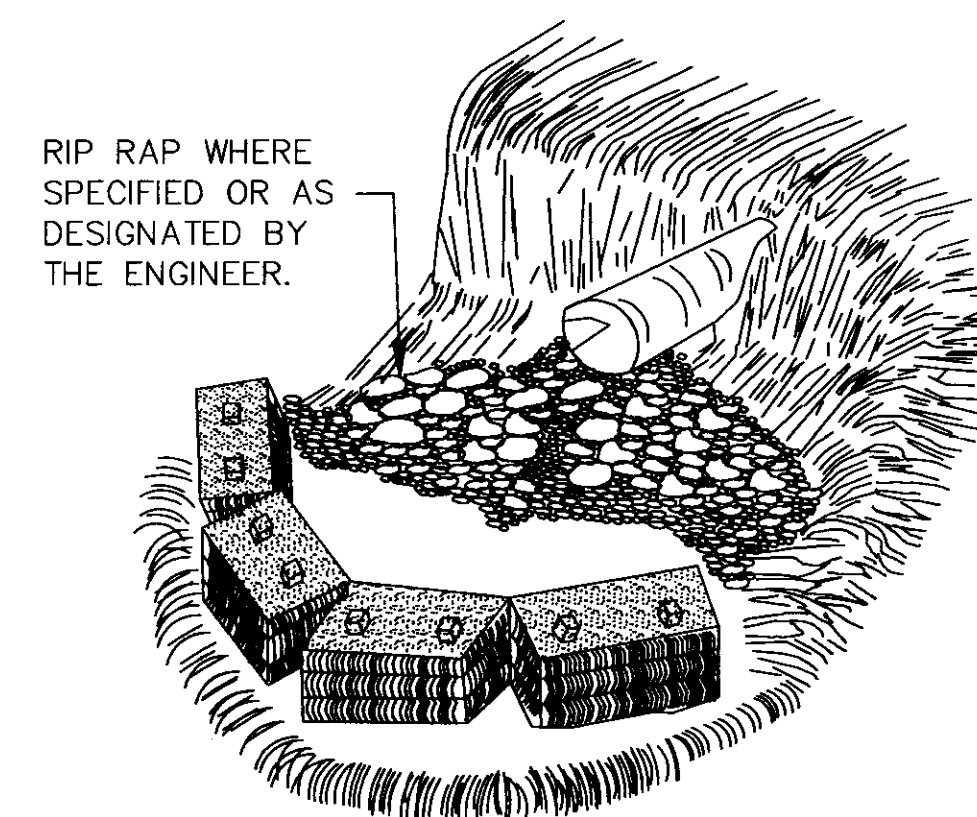
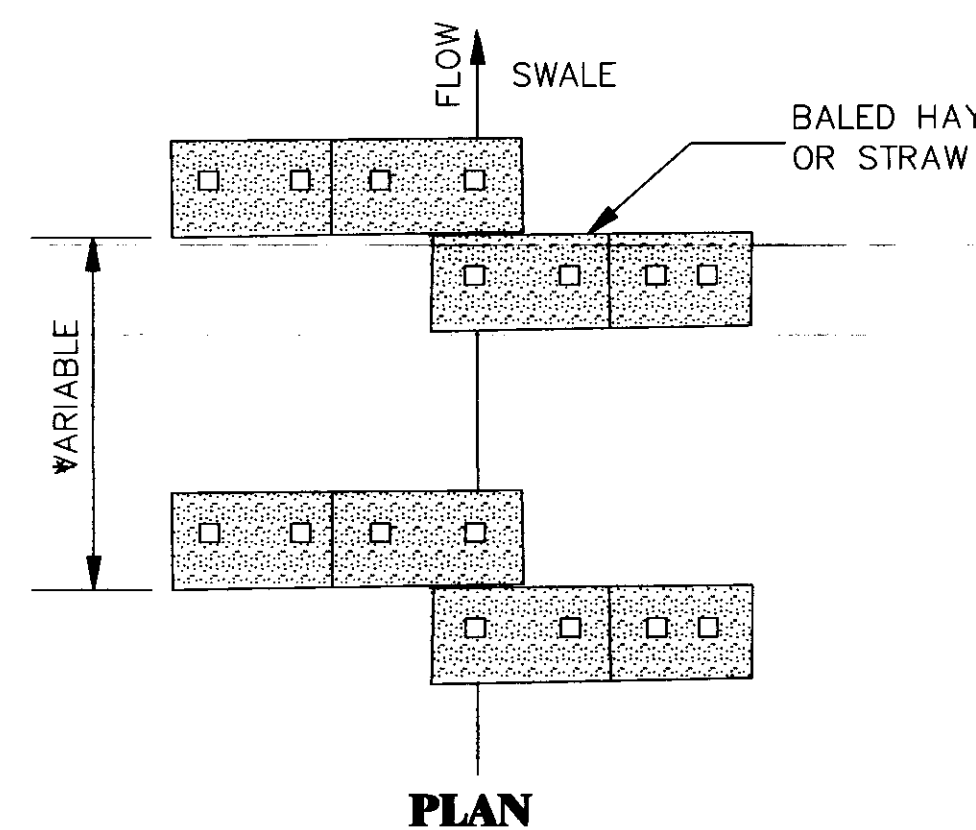
- ALL VEGETATED AREAS WILL BE MAINTAINED IN ADEQUATE CONDITION TO PROVIDE PROPER GROUND COVER. PROVIDE PROPER GROUND COVER.
- AREAS WHERE VEGETATION IS LOST WILL BE FERTILIZED, SEEDED AND MAINTAINED AS NECESSARY TO RESTORE PROPER GROUND COVER.
- STRUCTURAL MEASURES WILL BE EXAMINED AT LEAST ANNUALLY AND MAINTENANCE PERFORMED AS NEEDED.

PLANNED EROSION, SEDIMENT AND STORMWATER CONTROL PRACTICES

- STORM DRAIN INLET PROTECTION**
TEMPORARY HAY BALE AND SILT FENCE COMBINATIONS WILL BE INSTALLED AT ALL CURB INLET AND GRATE INLET LOCATIONS.
- LAND GRADING**
EXCESS EXCAVATION FROM THE STREET RIGHTS OF WAY WILL BE PLACED ON THE LOTS OF LOWEST ELEVATION. ALL FILL MATERIALS WILL BE COMPACTED AND SLOPES WILL NOT EXCEED 3:1. ALL AREAS WILL RECEIVE SEEDING FOR STABILIZATION OF THE FILL MATERIAL.
- ROCK OUTLET PROTECTION**
A RIPRAP APRON WILL BE LOCATED AT THE OUTLET OF ALL CULVERTS TO PREVENT SCOUR.
- PERMANENT SEEDING**
AFTER FINAL GRADING, ALL DISTURBED AREAS WILL BE SEEDED WITH PERMANENT SEEDING WITHIN SEVEN CALENDAR DAYS. THE LAND GRADING AREAS PREVIOUSLY MENTIONED WILL RECEIVE TEMPORARY SEEDING AS STATED.



FALL OF DITCH (%)	DISTANCE (ft)
0 - 1	100'
1 - 2	50'
>2	25'



TEMPORARY EROSION CHECKS USING HAY OR STRAW BALES

NOTE:
EMBED ALL BALES 3" MINIMUM INTO GROUND AND STAKE (2"x2"x36") SECURELY.

DRAWN BY: ERIC NOWLEN
DATE: 09-12-01
DWG. NO.: 3308-DETAILS-ECP

APPROVED BY: PAT GUEST
PROJ. NO.: G-3308

REVISIONS



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PROJECT

TRACE COLONY PARK

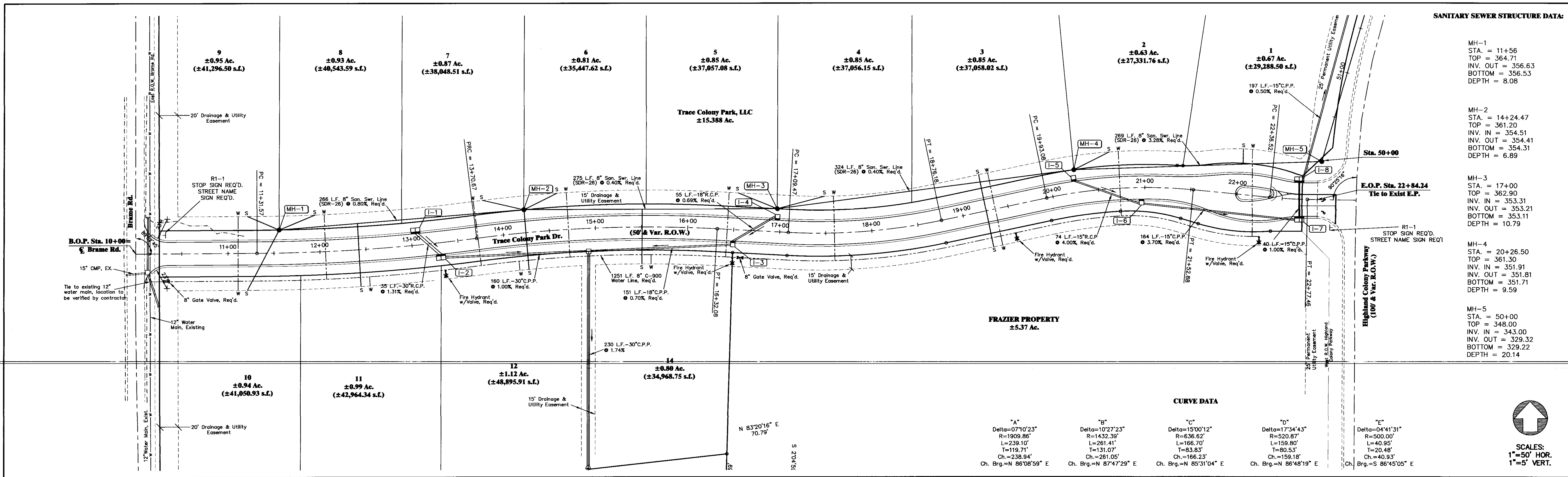
SHT. NAME

EROSION CONTROL DETAILS

SHT. NO.

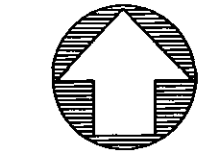
14

- MH-1
STA. = 11+56
TOP = 364.71
INV. OUT = 356.63
BOTTOM = 356.53
DEPTH = 8.08
- MH-2
STA. = 14+24.47
TOP = 361.20
INV. IN = 354.51
INV. OUT = 354.41
BOTTOM = 354.31
DEPTH = 6.89
- MH-3
STA. = 17+00
TOP = 362.90
INV. IN = 353.31
INV. OUT = 353.21
BOTTOM = 353.11
DEPTH = 10.79
- MH-4
STA. = 20+26.50
TOP = 361.30
INV. IN = 351.91
INV. OUT = 351.81
BOTTOM = 351.71
DEPTH = 9.59
- MH-5
STA. = 50+00
TOP = 348.00
INV. IN = 343.00
INV. OUT = 329.32
BOTTOM = 329.22
DEPTH = 20.14



CURVE DATA

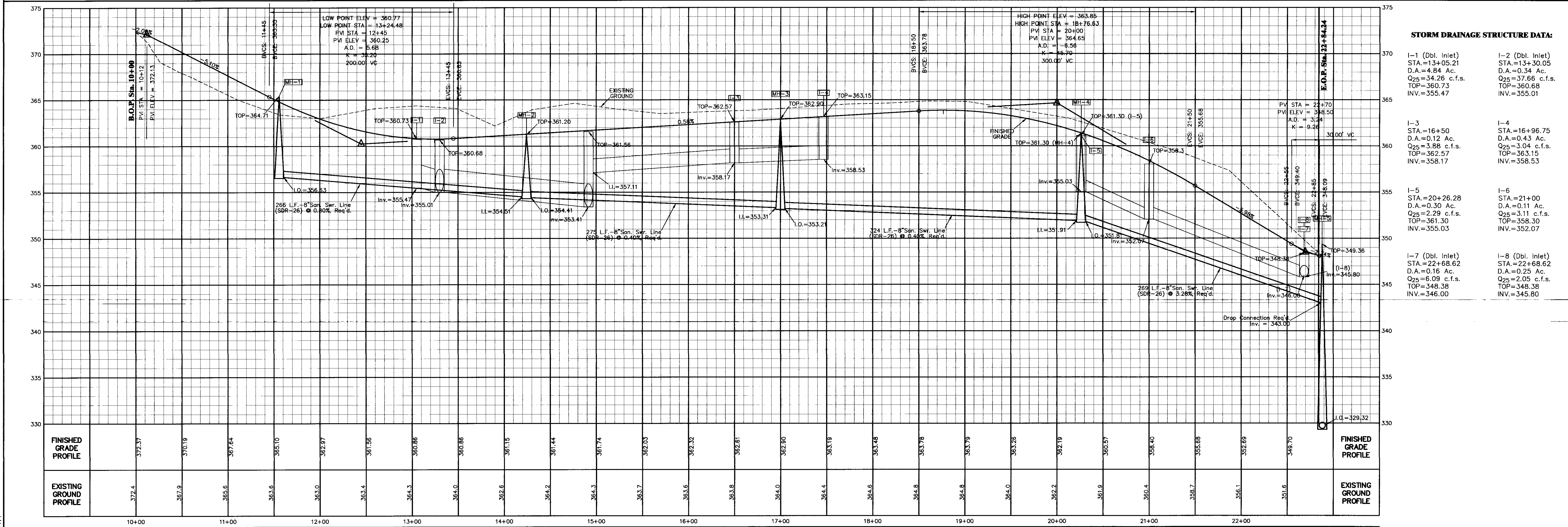
Curve	Delta	R	L	T	Ch.	Brg.
"A"	07°10'23"	1909.86'	239.10'	119.71'	238.94'	N 86°08'59" E
"B"	10°27'23"	1432.39'	261.41'	131.07'	261.05'	N 87°47'29" E
"C"	15°00'12"	520.87'	166.70'	80.53'	166.23'	N 85°31'04" E
"D"	17°34'43"	500.00'	159.80'	80.53'	159.18'	N 86°48'19" E
"E"	04°41'31"	500.00'	140.95'	20.48'	40.93'	S 86°45'05" E



SCALE: 1"=50' HOR.
1"=5' VERT.

STORM DRAINAGE STRUCTURE DATA:

- I-1 (Dbl. Inlet)
STA.=13+05.21
D.A.=4.84 Ac.
Q₂₅=34.26 c.f.s.
TOP=360.73
INV.=355.47
- I-2 (Dbl. Inlet)
STA.=13+30.05
D.A.=0.34 Ac.
Q₂₅=17.66 c.f.s.
TOP=360.68
INV.=355.01
- I-3
STA.=16+50
D.A.=0.12 Ac.
Q₂₅=3.88 c.f.s.
TOP=362.57
INV.=358.17
- I-4
STA.=16+96.75
D.A.=0.43 Ac.
Q₂₅=3.04 c.f.s.
TOP=363.15
INV.=358.53
- I-5
STA.=20+26.28
D.A.=0.30 Ac.
Q₂₅=2.29 c.f.s.
TOP=361.30
INV.=355.03
- I-6
STA.=21+00
D.A.=0.11 Ac.
Q₂₅=3.11 c.f.s.
TOP=358.30
INV.=352.07
- I-7 (Dbl. Inlet)
STA.=22+68.62
D.A.=0.16 Ac.
Q₂₅=6.09 c.f.s.
TOP=348.38
INV.=346.00
- I-8 (Dbl. Inlet)
STA.=22+68.62
D.A.=0.25 Ac.
Q₂₅=2.05 c.f.s.
TOP=348.38
INV.=345.80

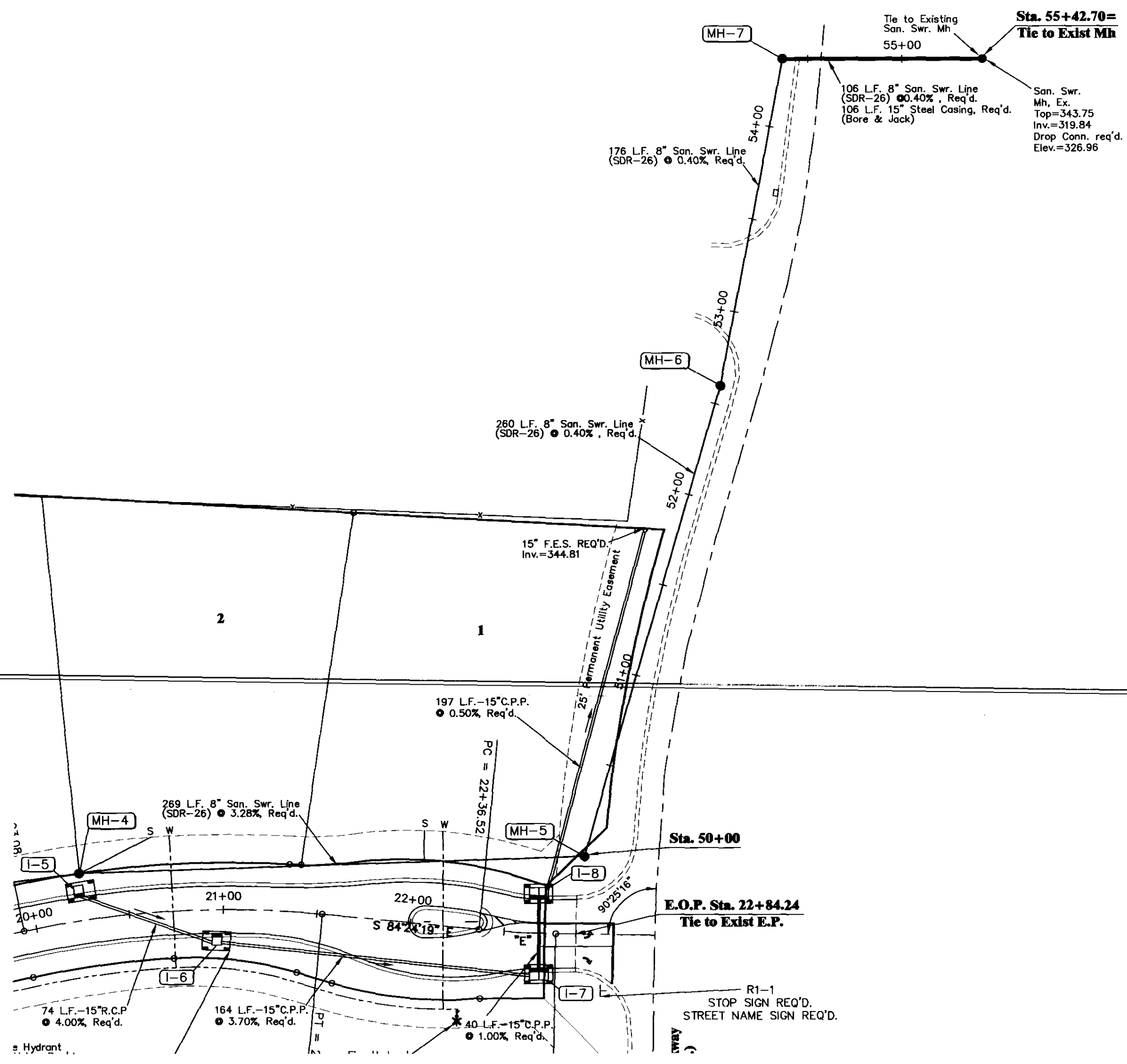


DRAWN BY: RICHARD SOMERS, DL
DATE: 03-27-02
DWG. NO.: 3308-PP1

APPROVED BY: PAT GUEST
PROJ. NO.: G-3308
ALIGN. NO.: 1

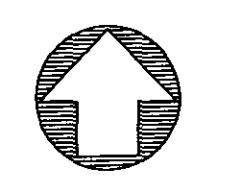
NO.	DESCRIPTION

Guest Consultants, Inc.
CONSULTING ENGINEERS • LAND SURVEYORS
TWENTY SIX EASTGATE DRIVE • P.O. BOX 1225 • BRANDON, MS 39043
TELEPHONE (601) 825-8341 FAX (601) 825-3032
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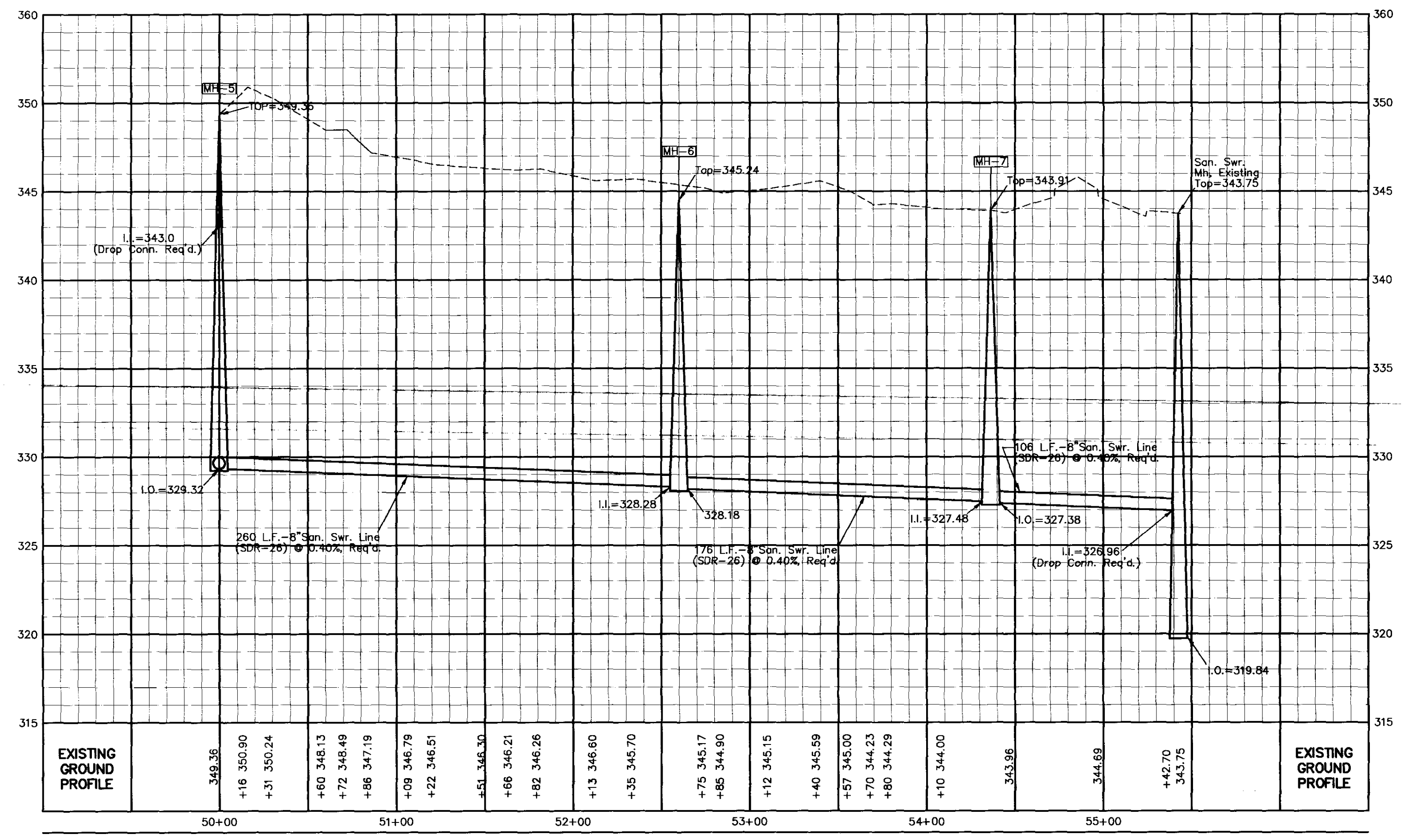


SANITARY SEWER STRUCTURE DATA:

MH-1	MH-2	MH-3
STA. = 11+56	STA. = 14+24.7	STA. = 17+00
TOP = 364.71	TOP = 361.20	TOP = 362.90
INV. IN = 356.63	INV. IN = 354.51	INV. IN = 353.31
BOTTOM = 356.53	BOTTOM = 354.41	BOTTOM = 353.11
DEPTH = 8.08	DEPTH = 6.89	DEPTH = 10.79
MH-4	MH-5	MH-6
STA. = 20+26.50	STA. = 50+00	STA. = 52+60
TOP = 361.30	TOP = 349.36	TOP = 345.69
INV. IN = 351.91	INV. IN = 343.00	INV. IN = 328.28
BOTTOM = 351.71	BOTTOM = 329.32	BOTTOM = 328.08
DEPTH = 9.59	DEPTH = 20.14	DEPTH = 17.61
MH-7		
STA. = 54+36.45		
TOP = 343.91		
INV. IN = 327.48		
INV. OUT = 327.38		
BOTTOM = 327.28		
DEPTH = 16.63		



SCALES:
1"=50' HOR.
1"=5' VERT.



DRAWN BY: DL
DATE: 03-27-02
DWG. NO.: 3308-PP2

APPROVED BY: PAT GUEST
PROJ. NO. G-3308
ALIGN. NO.

REVISIONS

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PROJECT: **TRACE COLONY PARK**

SHT. NAME: **PLAN / PROFILE**

SHT. NO. **16**