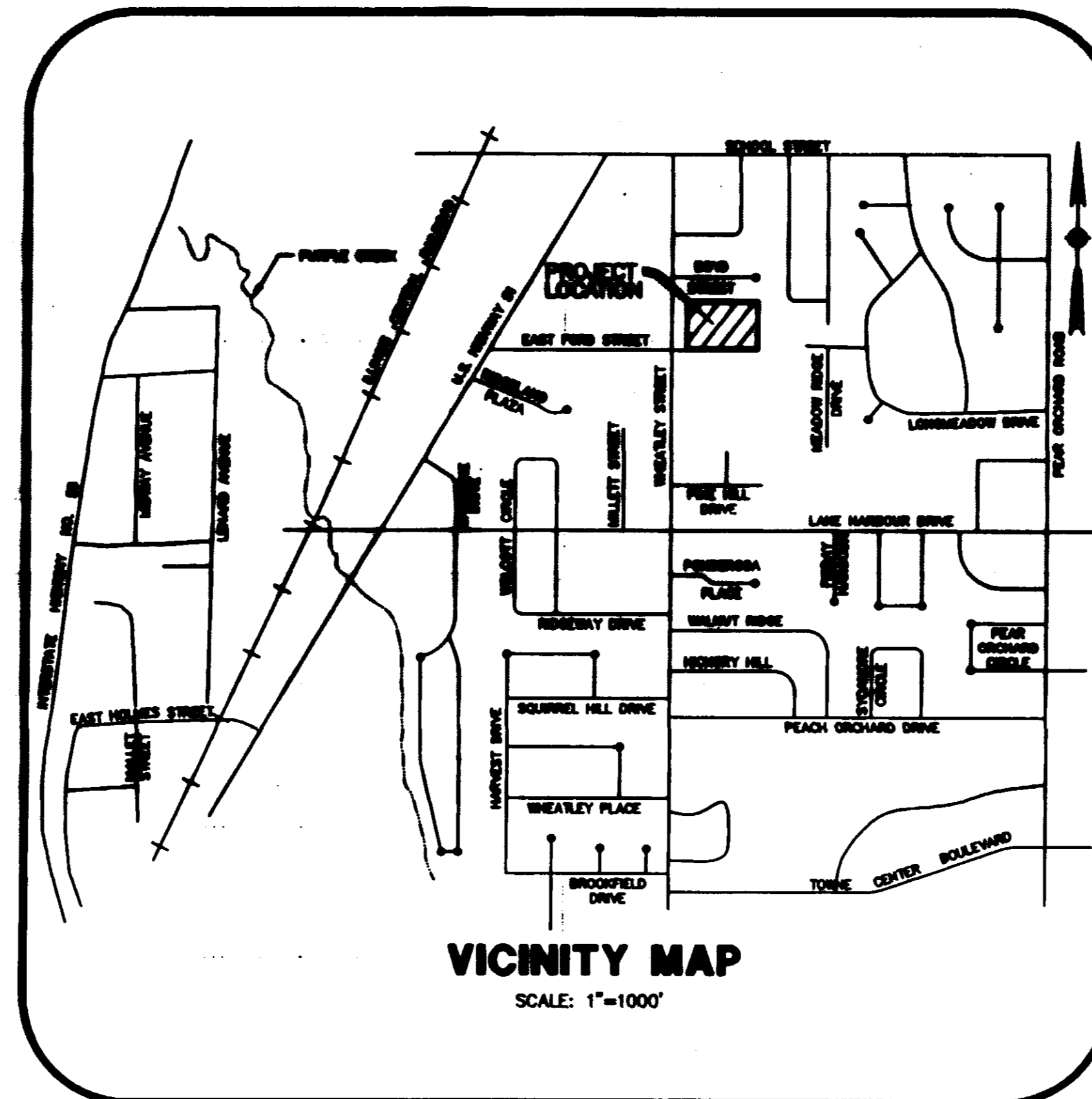


RECORD DRAWING FOR ST. CHARLES PARKE



DRAWING INDEX

- 1 - COVER SHEET
- 2 - GEOMETRIC LAYOUT
- 3 - DRAINAGE AND GRADING LAYOUT
- 4 - SEWER AND WATER LAYOUT
- 4A - AS-BUILT SEWER AND WATER LAYOUT
- 5 - EROSION, SEDIMENT AND STORMWATER CONTROL PLAN
- 6 - PLAN AND PROFILE - RAMPART STREET (STA. 1+00 TO STA. 5+02.15)
- 6 - PLAN AND PROFILE - FORD STREET (STA. 1+00 TO STA. 4+04.64)
- 7 - STANDARD DETAILS
- 8 - STANDARD DETAILS
- 9 - STANDARD DETAILS
- 10 - STANDARD DETAILS
- 11 - STANDARD DETAILS

PWP 01945

H D LANG AND ASSOCIATES, INC.

POST OFFICE BOX 18085

JACKSON, MISSISSIPPI 39238

601-362-4886

DEVELOPER

W.J. SHANKS
P.O. BOX 190
MADISON, MISSISSIPPI 39187
1001 666-6510

LOCATION

SITUATED IN THE
SOUTHEAST 1/4 OF SECTION 30
TOWNSHIP 7 NORTH - RANGE 2 EAST
BEING PART OF LOTS 8 AND 9, BLOCK 26
HIGHLAND COLONY SUBDIVISION
CITY OF RIDGELAND, MADISON COUNTY, MISSISSIPPI

DATE

1-18-02

REVISION

RECORD DRAWINGS

BY

CLS

DRAWN BY: C.L.S.

DATE: 9-12-2001

SCALE:

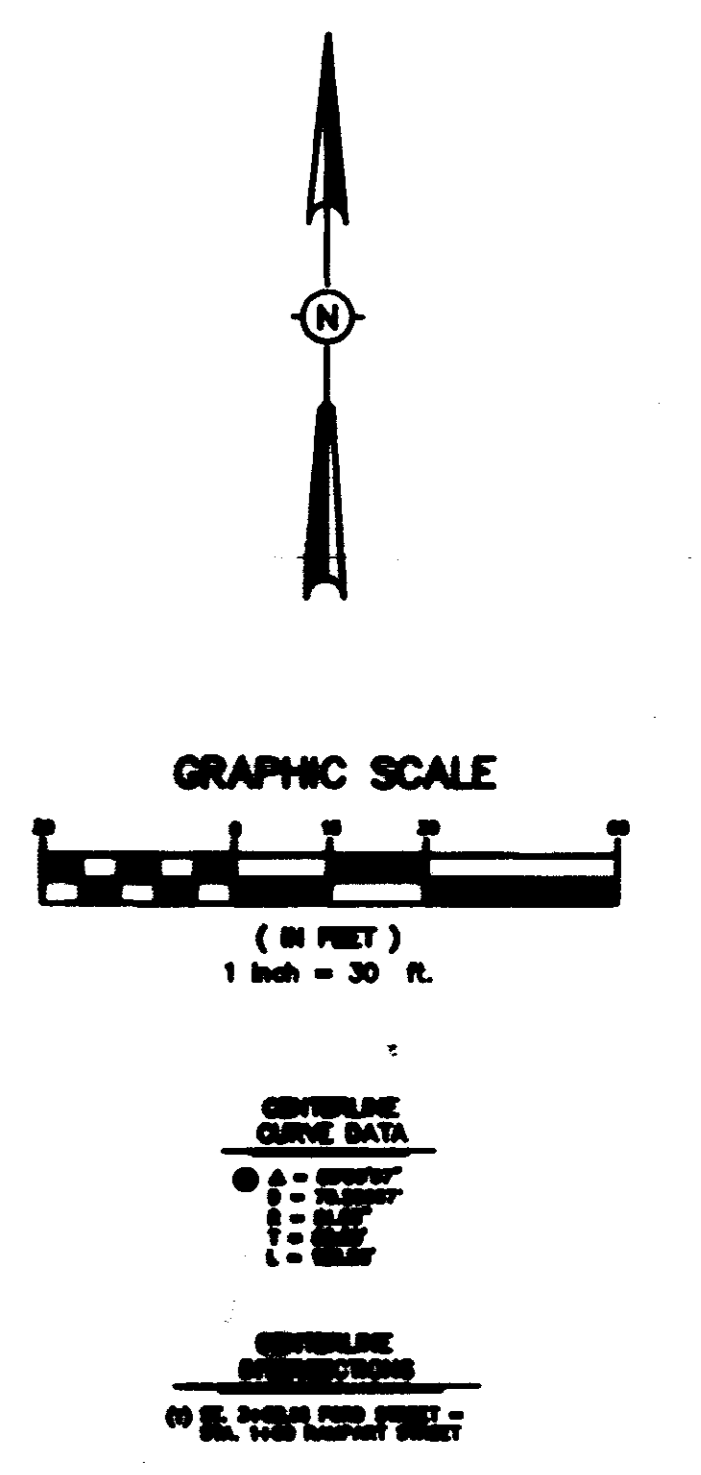
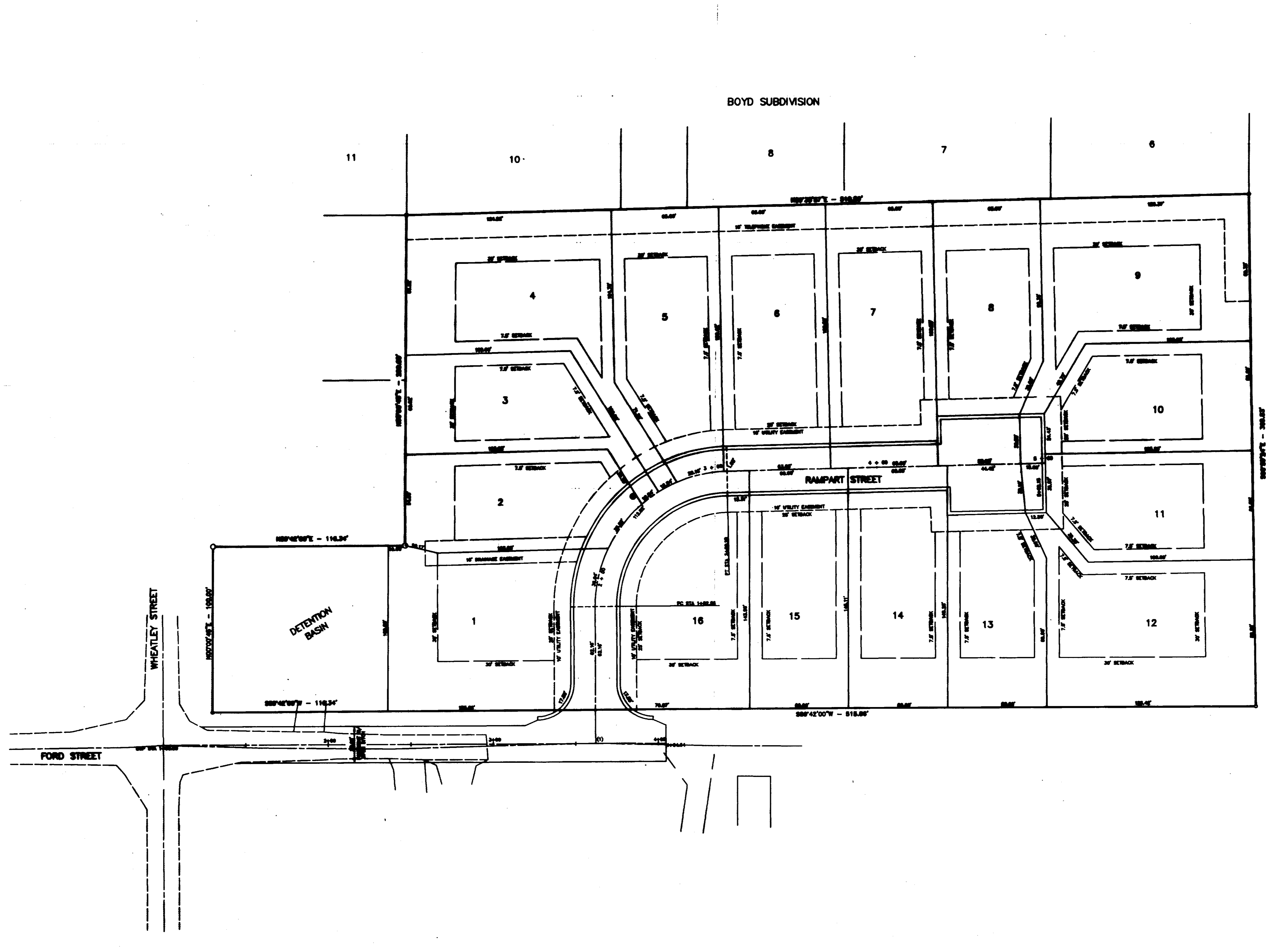
BOOK:

PAGE:

PROJECT NO.: 85-154

SHEET

1



NOTES:
 1. DIMENSIONS ALONG CURVES ARE CHORD DIMENSIONS.
 2. AREA = 3.889 ACRES (MORE OR LESS)

H D LANG AND ASSOCIATES, INC.
 POST OFFICE BOX 18086 JACKSON, MISSISSIPPI 39238
 601-362-4886

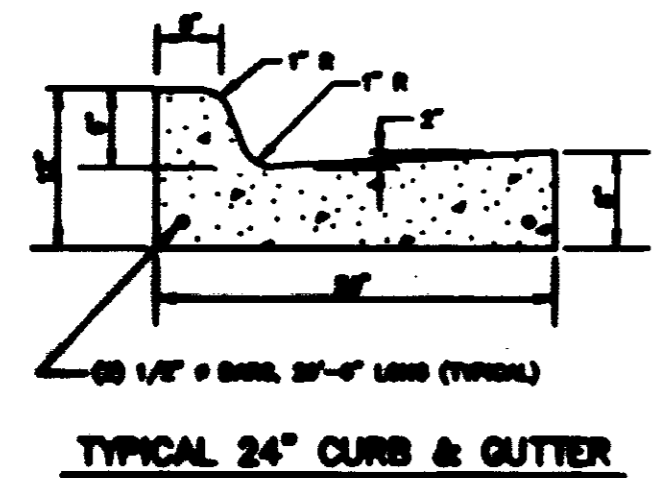
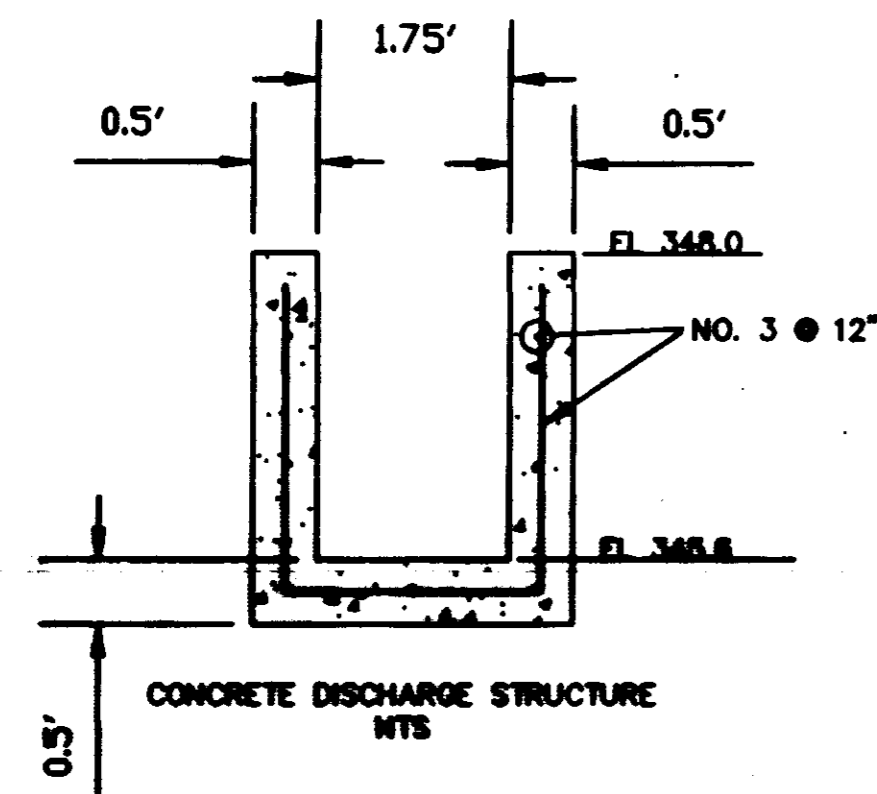
PROJECT: **ST. CHARLES PARKE**

DESCRIPTION: **GEOMETRIC LAYOUT**

| DATE | REVISION | BY |
|----------|------------------------|-----|
| 10-28-01 | REMOVE CURB (FORD ST.) | CLS |
| 1-16-02 | RECORD DRAWING | CLS |

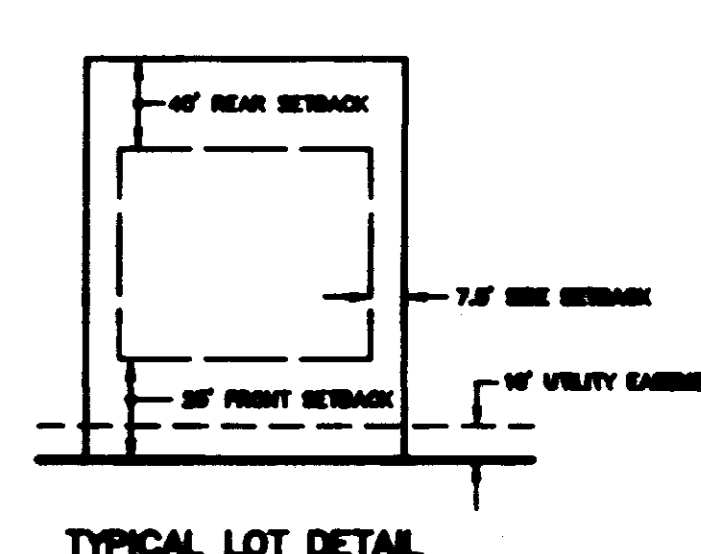
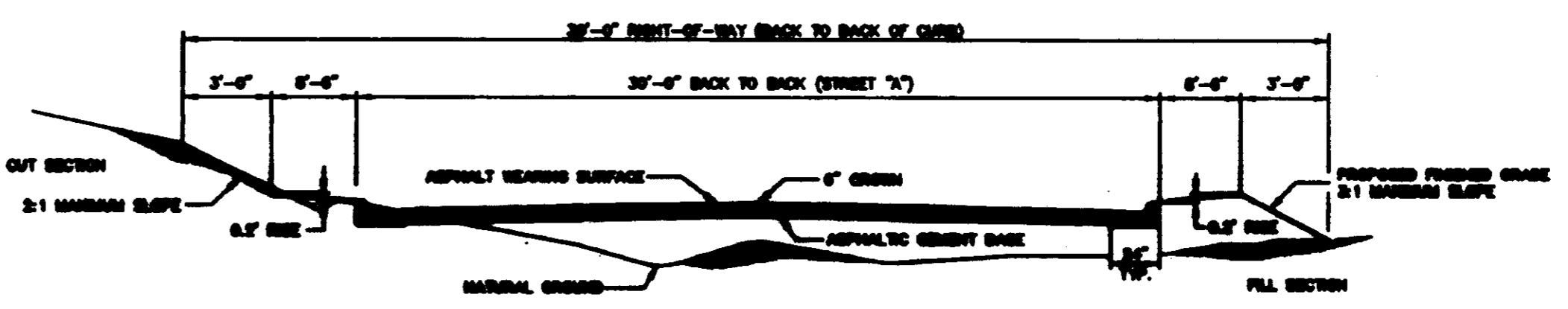
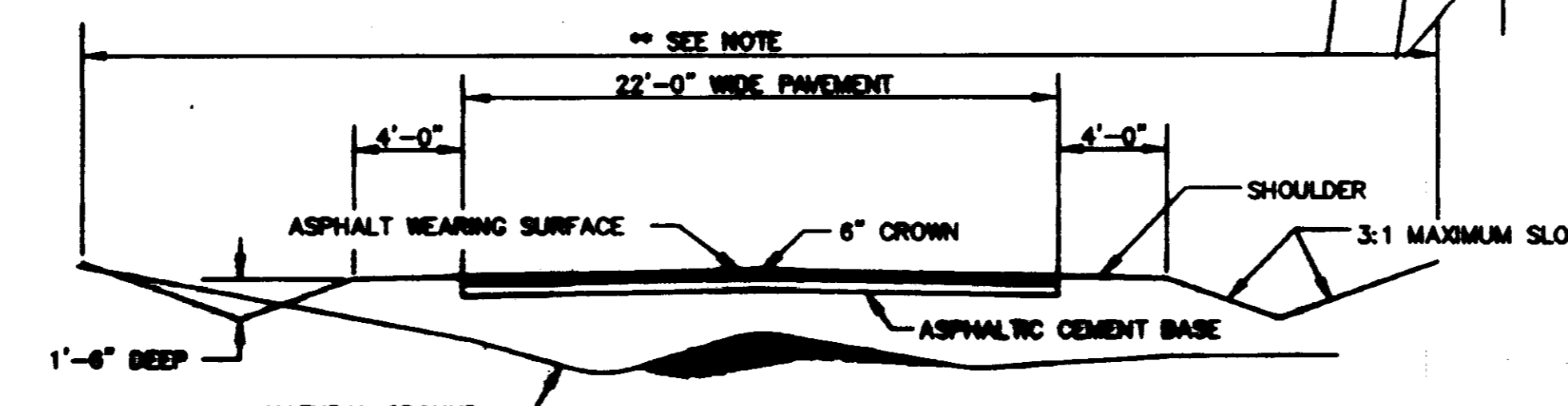
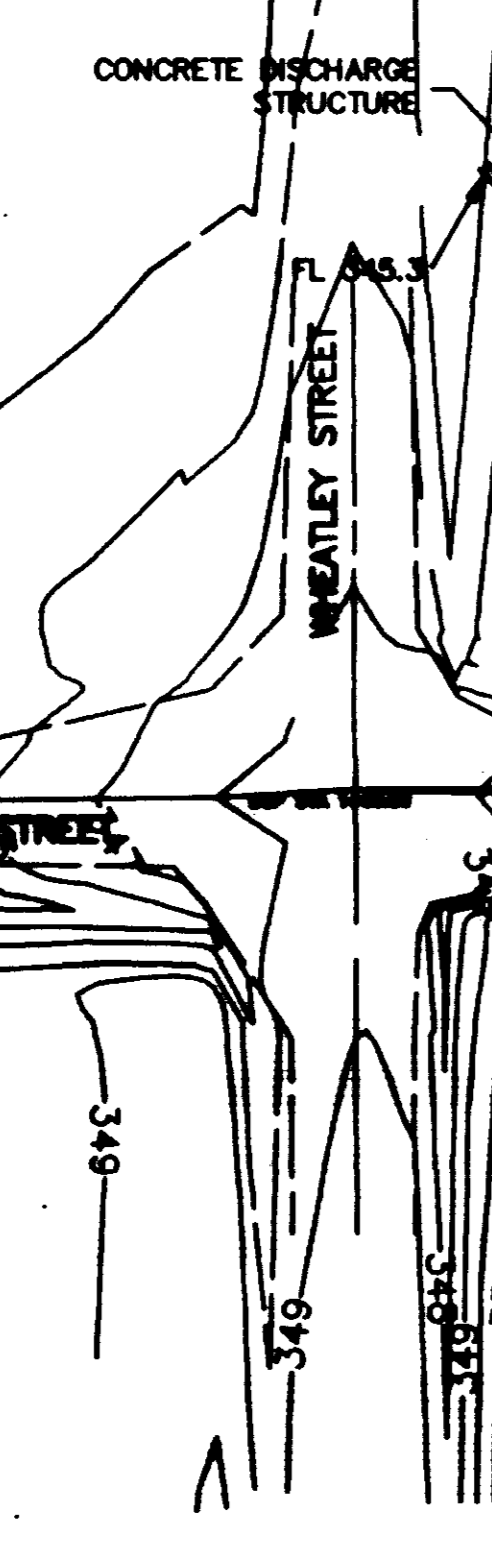
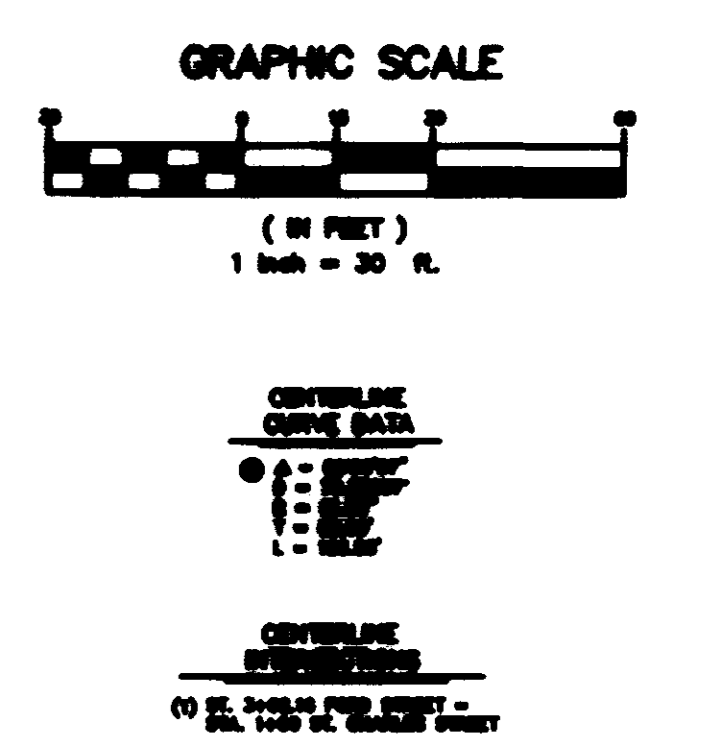
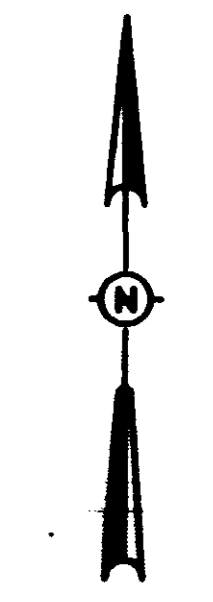
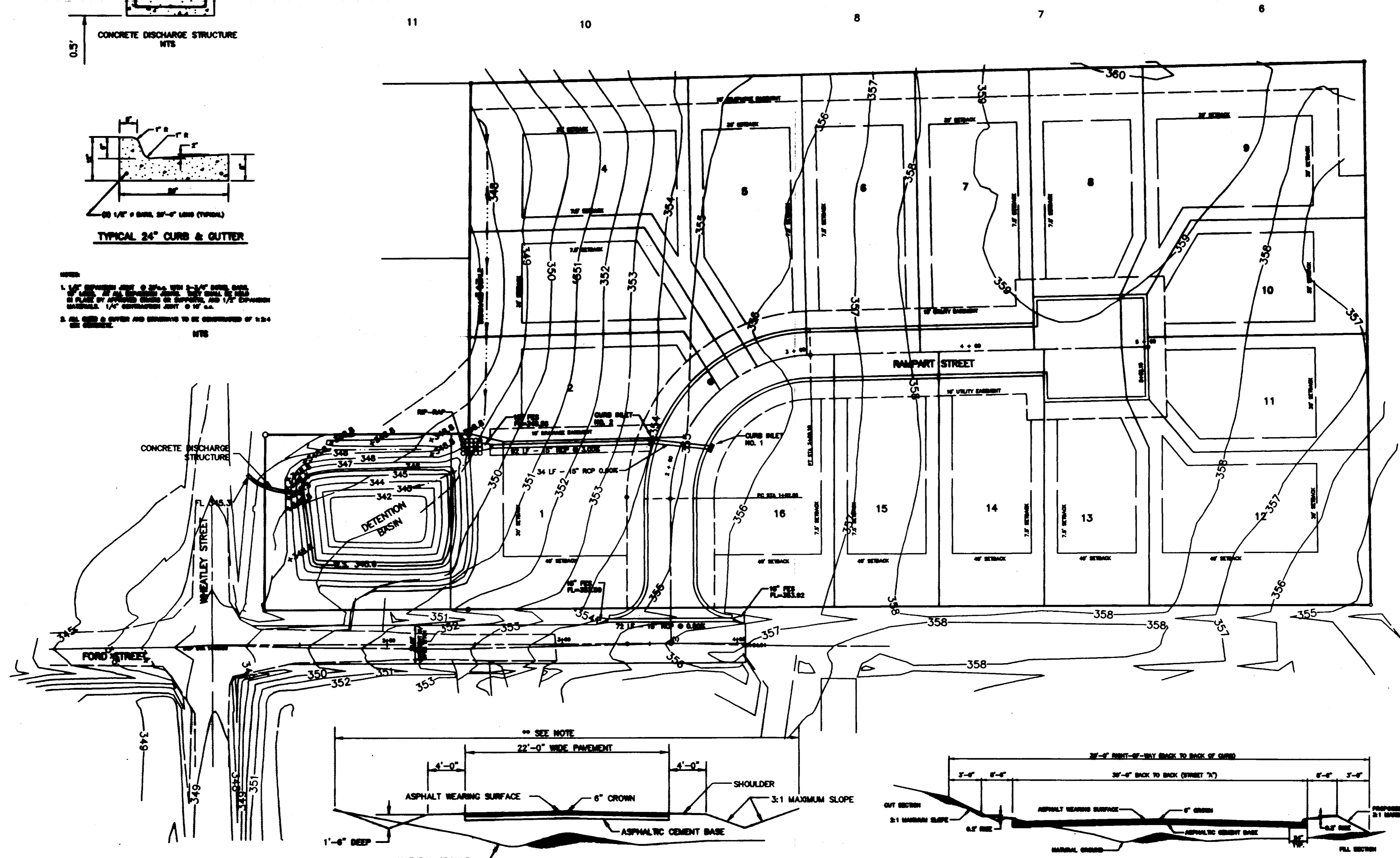
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|---------------------|
| DRAWN BY: CLS |
| DATE: 10-15-2001 |
| SCALE: 1"=30' |
| BOOK: PAGE: |
| PROJECT NO.: 95-154 |

SHEET **2**



NOTES:
 1. 1/2" EXPANDED GROUT @ 2" DIA. WITH 1-1/2" STEEL BARS
 2. 1/2" EXPANDED GROUT @ 2" DIA. WITH 1-1/2" STEEL BARS
 3. ALL CURB & GUTTER AND STRUCTURES TO BE CONSTRUCTED OF 1:2:4
 OR BETTER.
 MTS

BOYD SUBDIVISION



ALTERNATE NO. 1: 1 1/2" WEARING SURFACE WITH 5" ASPHALTIC CEMENT BASE
 ALTERNATE NO. 2: 1 1/2" WEARING SURFACE WITH 4" ASPHALTIC CEMENT BASE & 6" SOIL TREATMENT (LIME)

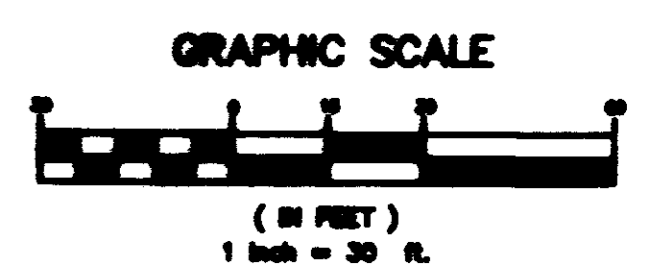
ALTERNATE NO. 1: 1 1/2" WEARING SURFACE WITH 6" ASPHALTIC CEMENT BASE
 ALTERNATE NO. 2: 1 1/2" WEARING SURFACE WITH 4" ASPHALTIC CEMENT BASE & 6" SOIL TREATMENT (LIME)

NOTES:
 1. THIS PROPERTY IS SITUATED IN SOME "A" (NOT SHARED) ACCORDING TO
 FROM 1949 RECORDS, RECORDED IN BOOK 108, PAGE 10, 1949.

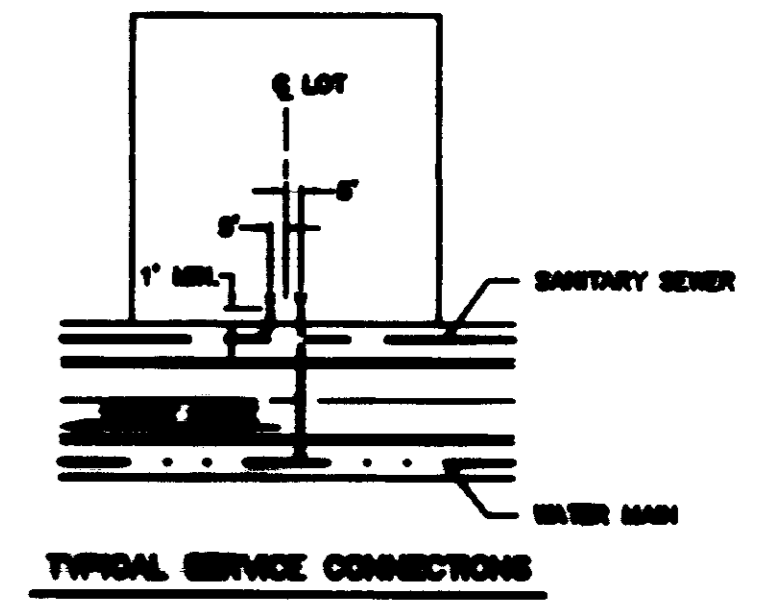
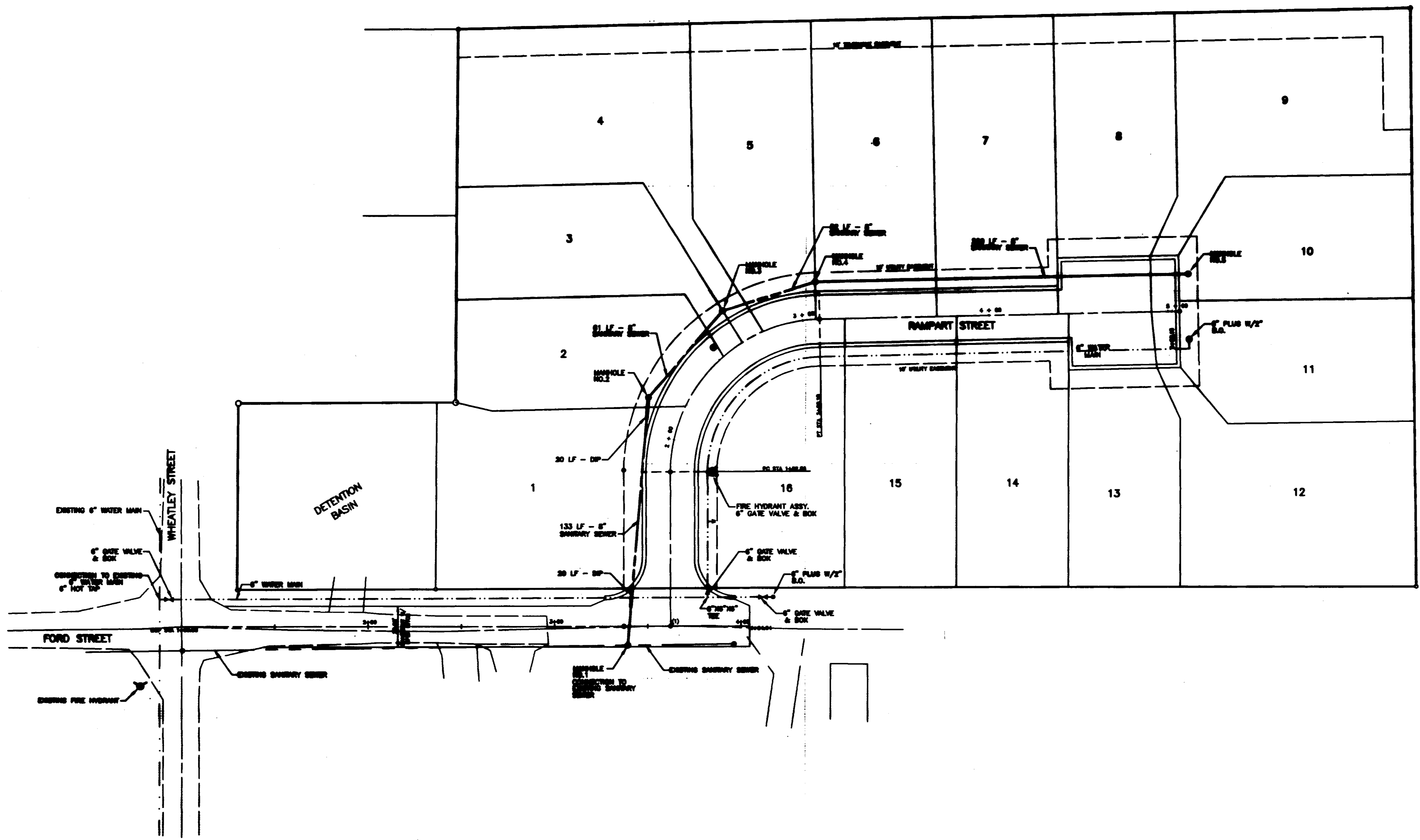
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|---|-------------------|-----------------------------|----------|------------------------|---------------------|------------------|-------|
| H D LANG AND ASSOCIATES, INC. POST OFFICE BOX 18085 JACKSON, MISSISSIPPI 39238 601-362-4886 | PROJECT | DESCRIPTION | DATE | REVISION | BY | DRAWN BY: CLS | SHEET |
| | ST. CHARLES PARKE | DRAINAGE AND GRADING LAYOUT | 10-28-01 | REMOVE CURB (FORD ST.) | CLS | DATE: 10-15-2001 | 3 |
| | | | 1-16-02 | RECORD DRAWING | CLS | SCALE: 1"=30' | |
| | | | | | | BOOK: PAGE: | |
| | | | | | PROJECT NO.: 85-154 | | |

BOYD SUBDIVISION

11 10 8 7 6



- GENERAL NOTES
- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
 - 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES.
 - 3. ALL UTILITIES SHALL BE PROTECTED AND DEEPER THAN THE NEW INSTALLATIONS.
 - 4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
 - 5. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ENGINEER.



NOTE:
THE CONTRACTOR SHALL PROVIDE A 3/4" WATER SERVICE AND A 6" SANITARY SEWER SERVICE TO EACH LOT AS DIRECTED BY THE ENGINEER.

H D LANG AND ASSOCIATES, INC.
POST OFFICE BOX 18085 JACKSON, MISSISSIPPI 39238
601-362-4886

PROJECT: **ST. CHARLES PARKE**

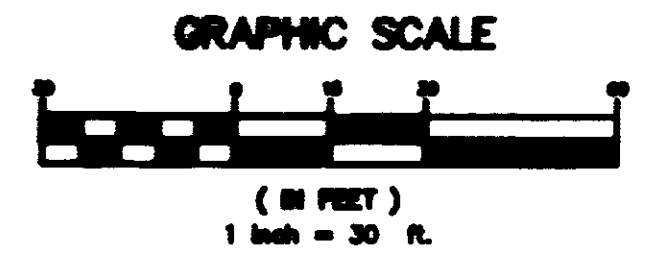
DESCRIPTION: **SEWER AND WATER LAYOUT**

| DATE | REVISION | BY |
|----------|------------------------|-----|
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| 1-18-02 | RECORD DRAWING | CLS |

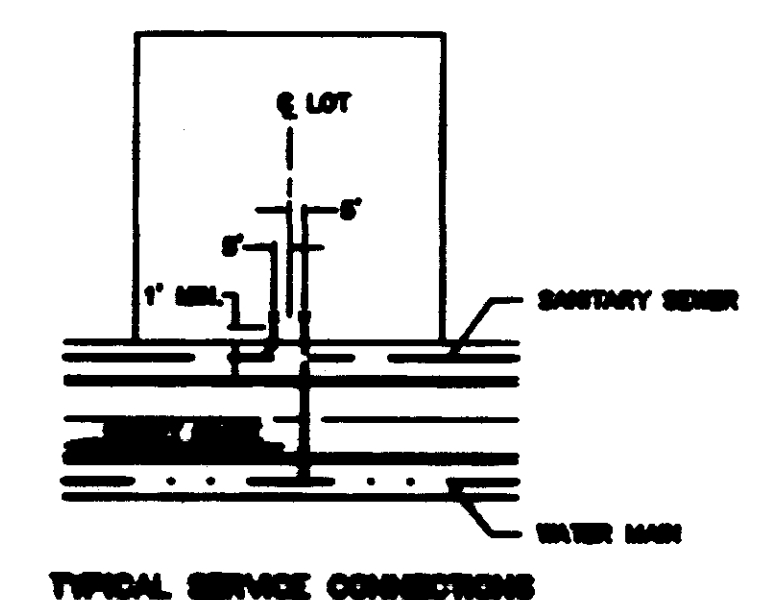
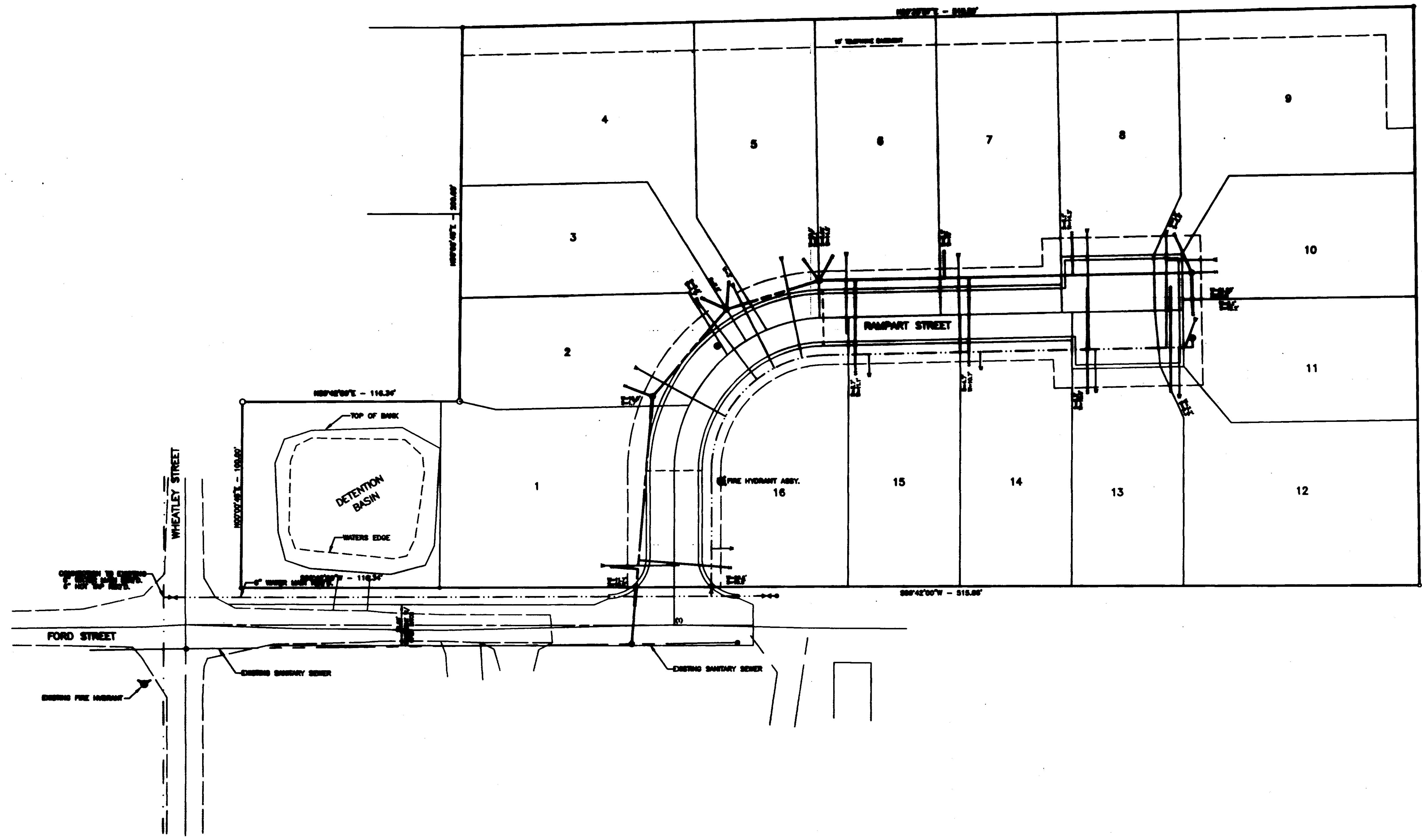
DRAWN BY: **CLS**
DATE: **10-18-2001**
SCALE: **1"=30'**
BOOK: **PAGE:**
PROJECT NO.: **85-154**

SHEET
4

BOYD SUBDIVISION



- GENERAL NOTES
- 1. ALL SERVICES TO BE INSTALLED IN ACCORDANCE WITH THE CITY OF JACKSON SPECIFICATIONS.
 - 2. ALL SERVICES TO BE INSTALLED AT THE OWNER'S RISK AND EXPENSE.
 - 3. ALL SERVICES TO BE INSTALLED AT THE OWNER'S RISK AND EXPENSE.
 - 4. ALL SERVICES TO BE INSTALLED AT THE OWNER'S RISK AND EXPENSE.



NOTE:
THE CONTRACTOR SHALL PROVIDE A 3/4" WATER SERVICE AND A 6" SANITARY SEWER SERVICE TO EACH LOT AS SHOWN BY THE ENGINEER.

H D LANG AND ASSOCIATES, INC.
POST OFFICE BOX 18085 JACKSON, MISSISSIPPI 39238
801-362-4886

PROJECT
ST. CHARLES PARK

DESCRIPTION
**AS-BUILT
SEWER AND WATER LAYOUT**

| DATE | REVISION | BY |
|----------|------------------------|-----|
| 10-28-01 | REMOVE CURB (FORD ST.) | CLS |
| 11-05-01 | ADDED SERVICES | CLS |
| 1-18-02 | AS-BUILT | CLS |

DRAWN BY: CLS
DATE: 10-15-2001
SCALE: 1"=30'
BOOK: PAGE:
PROJECT NO.: 86-154

SHEET
4A

SYMBOLS FOR EROSION AND SEDIMENT CONTROL PRACTICES

TEMPORARY PRACTICES

- CHECK DAM
- CONSTRUCTION ENTRANCE / EXIT
- DIVERSION
- DUST CONTROL
- SEDIMENT BASIN
- SILT FENCE
- STORM DRAIN INLET PROTECTION (SILT FENCE, STRAW BALE)
- STRAW BALE BARRIER
- SILT TRAP (SILT FENCE, STRAW BALE)

PERMANENT PRACTICES

- BUFFER ZONE
- DETENTION BASIN
- DIVERSION
- GRADE STAB. STRUCTURE
- GRASSED WATERWAY
- LAND GRADING
- LEVEL GRADING
- LINED WATERWAY OR OUTLET
- PARKING LOT STORAGE
- PAVED FLUME
- ROCK OUTLET PROTECTION
- STORMWATER RETENTION BASIN

VEGETATIVE PRACTICES

- MULCHING
- PERMANENT SEEDING
- SODDING
- TEMPORARY SEEDING
- TOPSOILING
- TREE PRESERVATION AND PROTECTION
- TREES, SHRUBS, VINES AND GROUND COVER
- VEGETATIVE DUNE STABILIZATION

COMPOSITE PRACTICES

- VEGETATIVE STREAMBANK STAB.
- STRUCTURAL STREAMBANK STAB.
- RIPRAP

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 GRAVE 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 UNTIL PERMANENT VEGETATION IS ESTABLISHED AFTER THE CONSTRUCTION OF THE INDIVIDUAL HOUSES.
- 3. ROCK OUTLET PROTECTION**
A RIPRAP APRON WILL BE LOCATED AT THE OUTLET OF ALL CULVERTS TO PREVENT SODDING.
- 4. PERMANENT SEEDING**
ALL DISTURBED AREAS WILL BE PERMANENTLY SEEDS AND MULCHED ONCE FINAL GRADE IS ESTABLISHED. THE LAND GRADING AREAS PREVIOUSLY MENTIONED WILL RECEIVE TEMPORARY SEEDING AS STATED.

MAINTENANCE PLAN

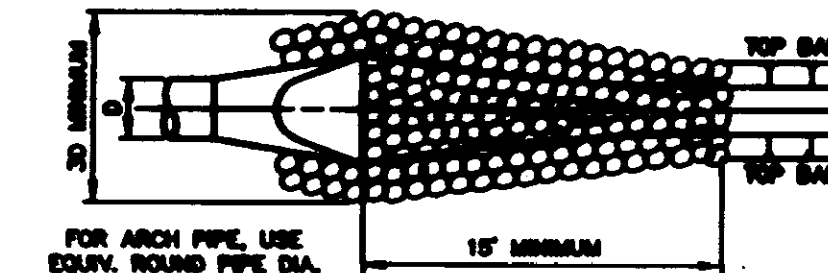
- SHORT TERM**
1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RAINFALL-PRODUCING RAINFALL BUT IN NO CASE LESS THAN EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
 2. SEDIMENT WILL BE REMOVED FROM 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 SEEDS AREAS WILL BE FERTILIZED AND RESEEDS AS NECESSARY TO MAINTAIN A DENSE VEGETATIVE COVER.
- LONG TERM**
1. ALL VEGETATED AREAS WILL BE MAINTAINED IN ABSOLUTE CONDITION TO PROVIDE PROPER GROUND COVER.
 2. AREAS WHERE VEGETATION IS LOST WILL BE FERTILIZED, SEEDS AND MAINTAINED AS NECESSARY TO RESTORE PROPER GROUND COVER.
 3. STRUCTURAL MEASURES WILL BE EXAMINED AT LEAST ANNUALLY AND MAINTENANCE PERFORMED AS NEEDED.

TEMPORARY SEEDING

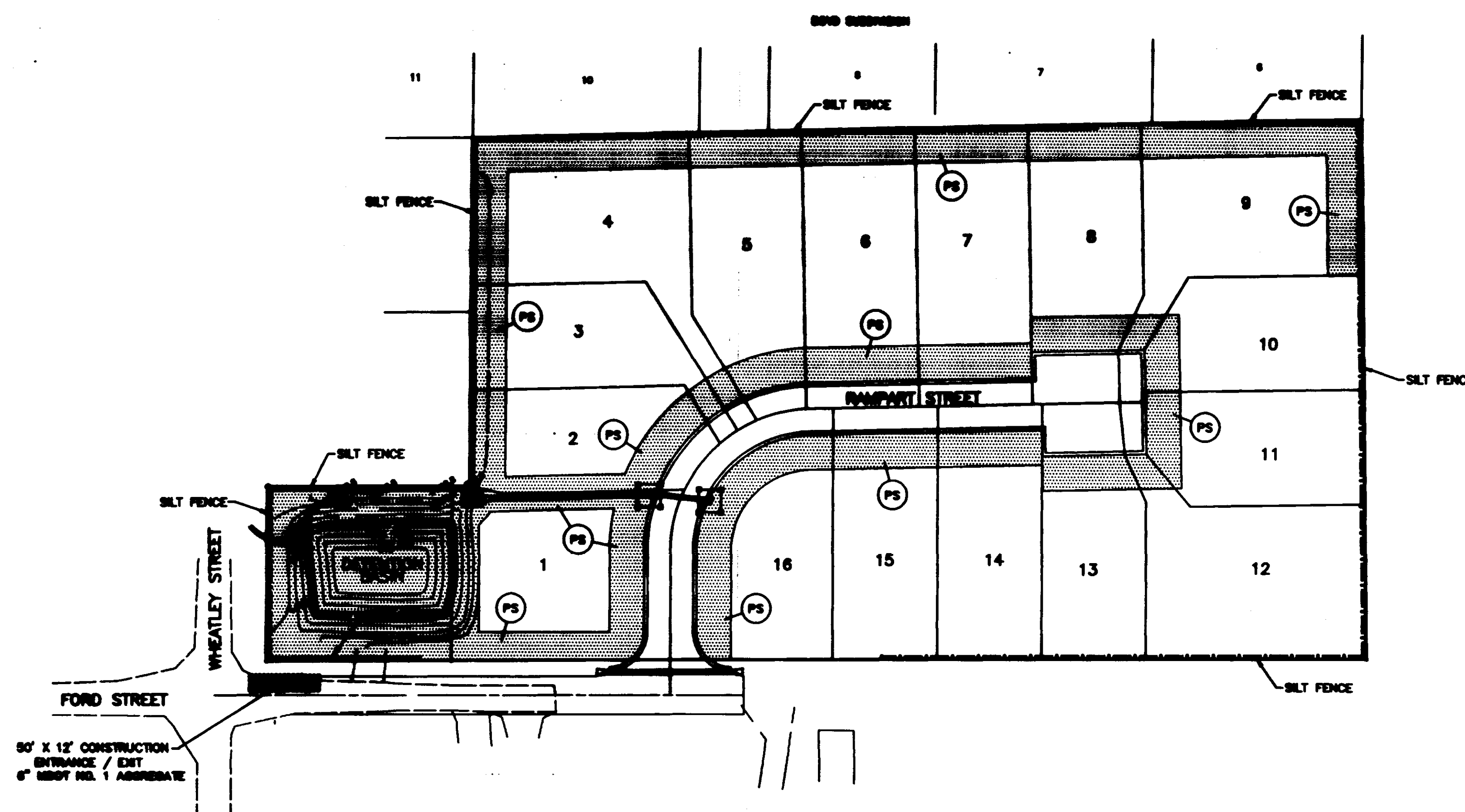
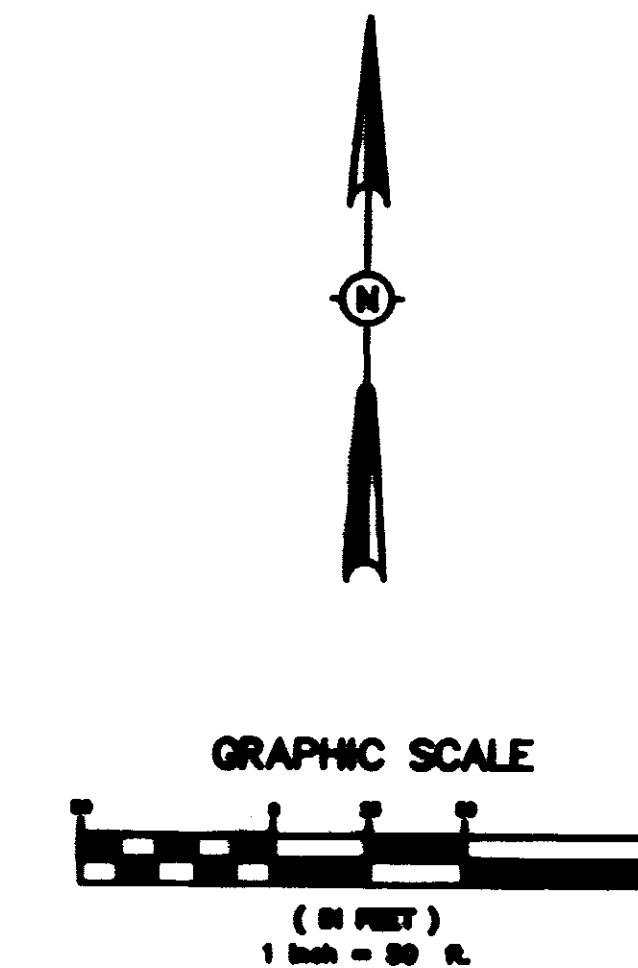
ALL FILL AREAS OUTSIDE OF PAVED AREAS SHALL RECEIVE TEMPORARY SEEDING OF ANNUAL RYEBASS AT 40 LBS./AC. WITH 13/13/13 FERTILIZER AT 800 LBS./AC.
ALL SLOPES SHALL RECEIVE TEMPORARY SEEDING AND FERTILIZER AND STRAW MULCH WITH ASPHALT TACK AT 1.5 TONS MULCH/AC. AND 100 GAL EMULSIFIED ASPHALT, GRADE SS-1 AT 100 GAL./TON MULCH.

PERMANENT SEEDING

PERMANENT SEEDING OF BERMUDA GRASS AT 15 LBS./AC. WITH 13/13/13 FERTILIZER AT 800 LBS./AC.



ROCK OUTLET PROTECTION



H D LANG AND ASSOCIATES, INC.
POST OFFICE BOX 18085 JACKSON, MISSISSIPPI 39238
801-362-4886

PROJECT
ST. CHARLES PARKE

DESCRIPTION
EROSION, SEDIMENT AND STORMWATER CONTROL PLAN

| DATE | REVISION | BY | DRAWN BY: CLS |
|----------|------------------------|-----|---------------------|
| 10-29-01 | REMOVE CURB (FORD ST.) | CLS | DATE: 10-15-2001 |
| 1-16-02 | RECORD DRAWING | CLS | SCALE: 1"=50' |
| | | | BOOK: PAGE: |
| | | | PROJECT NO.: 85-154 |

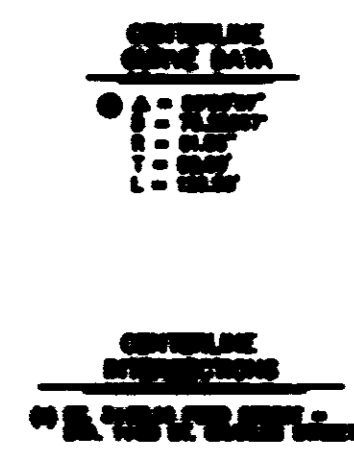
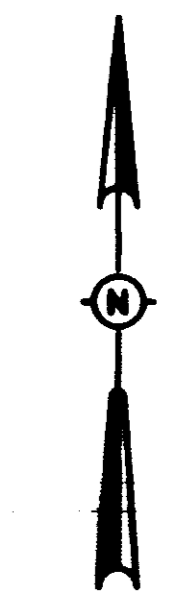
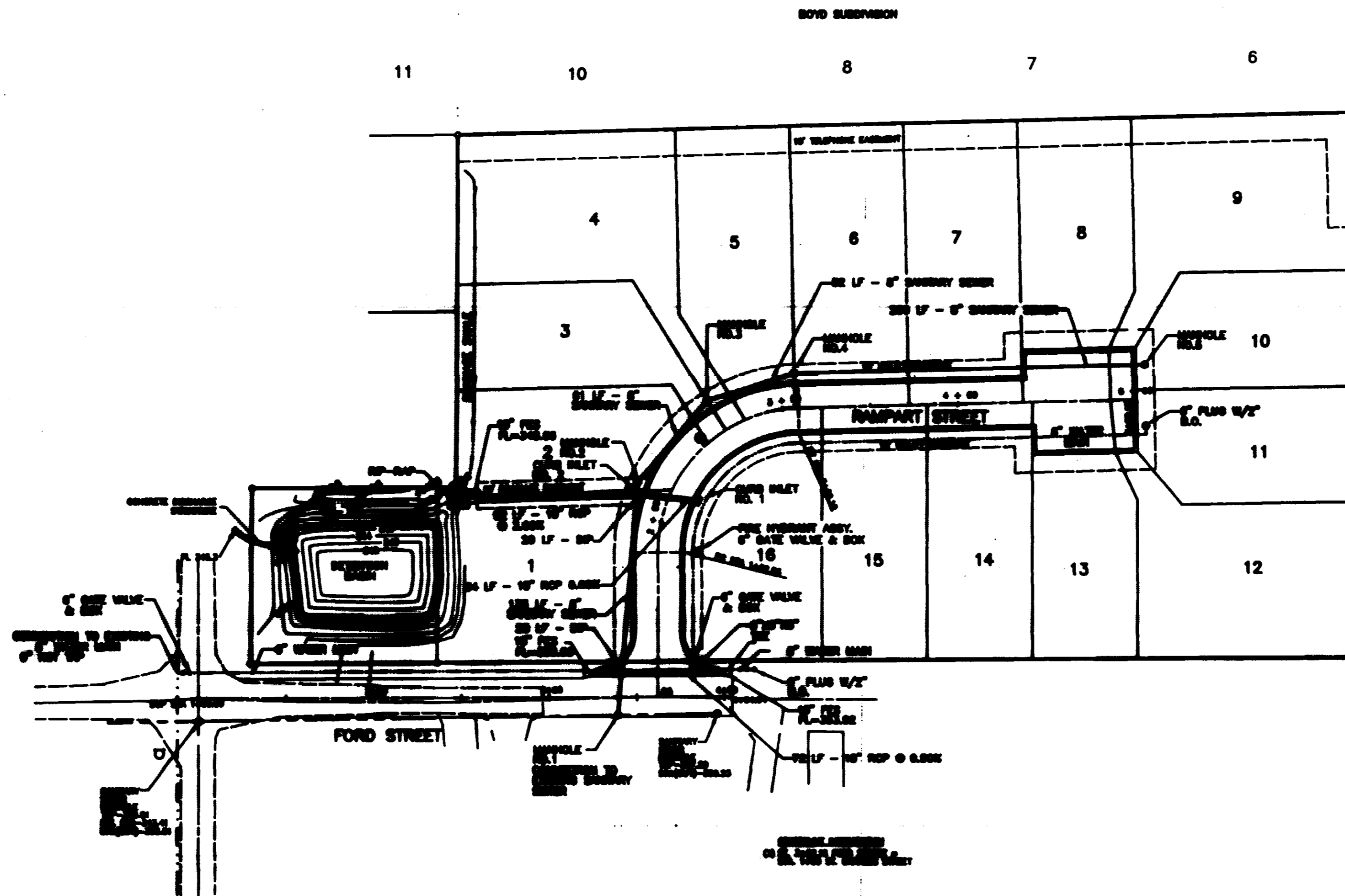
SHEET
5

DRAINAGE STRUCTURE SCHEDULE

| | |
|---|---|
| MANHOLE NO. 1 34 LF - 18" RCP @ 0.40% | MANHOLE NO. 2 34 LF - 18" RCP @ 0.40% |
| MANHOLE NO. 3 34 LF - 18" RCP @ 0.40% | MANHOLE NO. 4 34 LF - 18" RCP @ 0.40% |
| MANHOLE NO. 5 34 LF - 18" RCP @ 0.40% | MANHOLE NO. 6 34 LF - 18" RCP @ 0.40% |
| MANHOLE NO. 7 34 LF - 18" RCP @ 0.40% | MANHOLE NO. 8 34 LF - 18" RCP @ 0.40% |
| MANHOLE NO. 9 34 LF - 18" RCP @ 0.40% | MANHOLE NO. 10 34 LF - 18" RCP @ 0.40% |
| MANHOLE NO. 11 34 LF - 18" RCP @ 0.40% | MANHOLE NO. 12 34 LF - 18" RCP @ 0.40% |

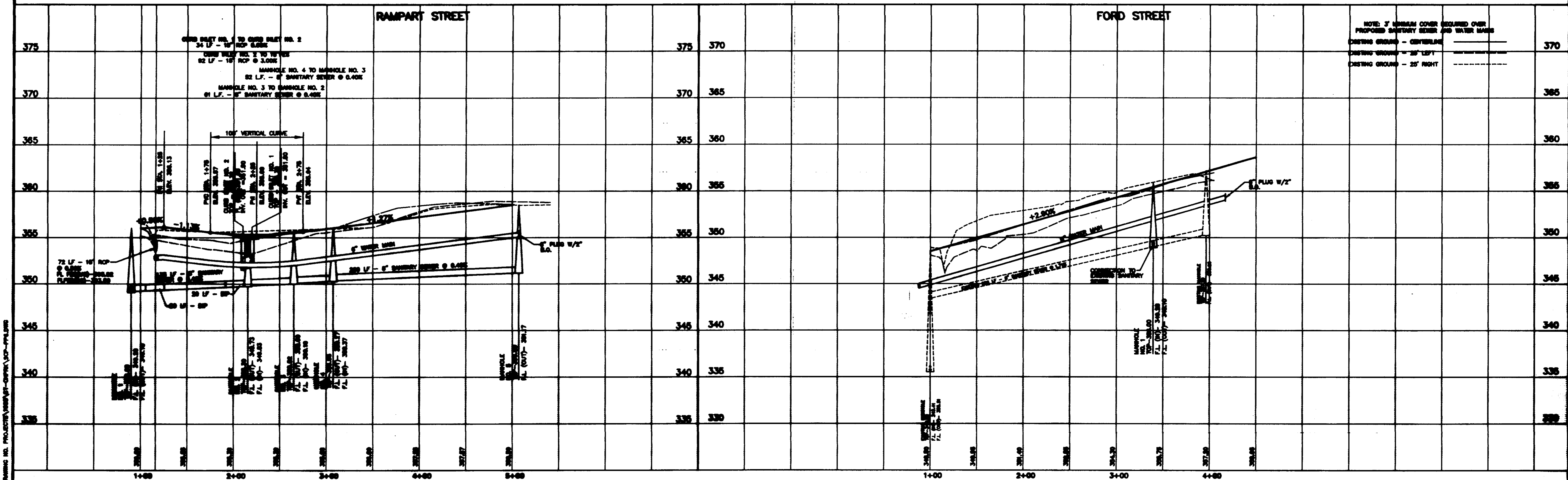
SANITARY SEWER STRUCTURE SCHEDULE

| | |
|---|---|
| MANHOLE NO. 1 34 LF - 18" RCP @ 0.40% | MANHOLE NO. 2 34 LF - 18" RCP @ 0.40% |
| MANHOLE NO. 3 34 LF - 18" RCP @ 0.40% | MANHOLE NO. 4 34 LF - 18" RCP @ 0.40% |
| MANHOLE NO. 5 34 LF - 18" RCP @ 0.40% | MANHOLE NO. 6 34 LF - 18" RCP @ 0.40% |
| MANHOLE NO. 7 34 LF - 18" RCP @ 0.40% | MANHOLE NO. 8 34 LF - 18" RCP @ 0.40% |
| MANHOLE NO. 9 34 LF - 18" RCP @ 0.40% | MANHOLE NO. 10 34 LF - 18" RCP @ 0.40% |
| MANHOLE NO. 11 34 LF - 18" RCP @ 0.40% | MANHOLE NO. 12 34 LF - 18" RCP @ 0.40% |



NOTE:
THE CONTRACTOR SHALL PROVIDE A 3/4" WATER SERVICE AND A 4" SANITARY SEWER SERVICE TO EACH LOT AS DIRECTED BY THE ENGINEER. (SEE "TYPICAL SERVICE CONNECTIONS" DETAIL - SHEET NO. 4)

- NOTE 1. CURB RETURN BARS - 8-20x7 (BACK OF CURB)
- NOTE 2. ALL STORM WATER BILETS TO HAVE CITY OF MEMPHIS LOAD ON TOP.
- NOTE 3. ALL SANITARY SEWER MANHOLES TO HAVE RUBBER COATED STEPS.



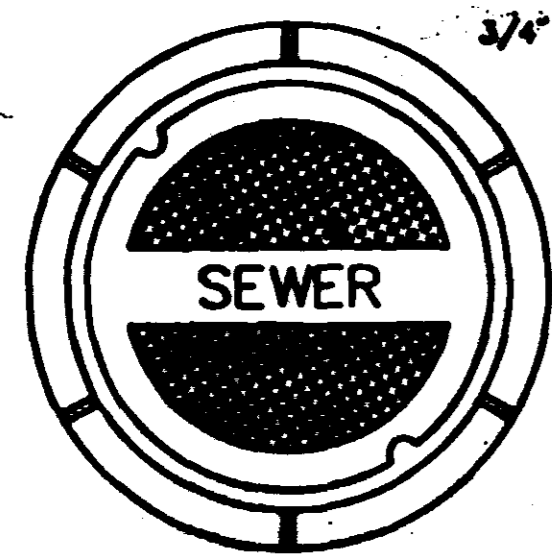
H D LANG AND ASSOCIATES, INC.
POST OFFICE BOX 18085 JACKSON, MISSISSIPPI 39238
801-382-4885

PROJECT
ST. CHARLES PARKE

DESCRIPTION
**PLAN AND PROFILE
ST. CHARLES STREET
(STA. 1+00 TO STA. 5+02.15)
FORD STREET
(STA. 1+00 TO STA. 4+04.64)**

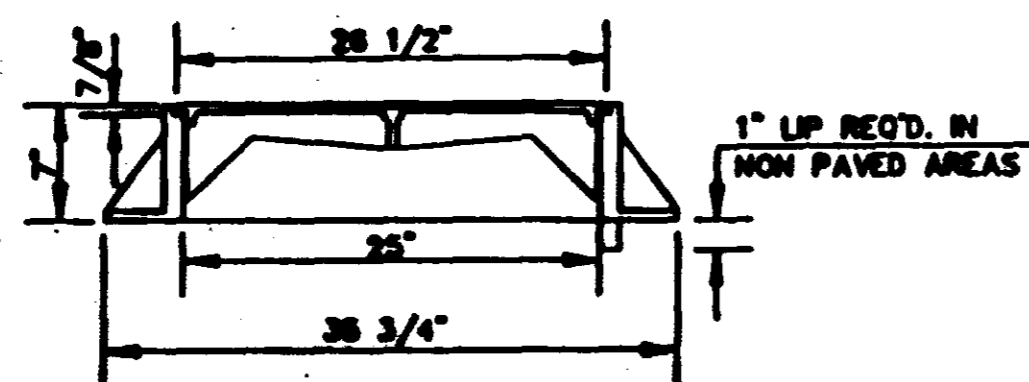
| DATE | REVISION | BY | DRAWN BY: CLS |
|----------|------------------------|-----|-------------------------------|
| 10-29-01 | REMOVE CURB (FORD ST.) | CLS | DATE: 10-15-01 |
| 11-05-01 | ADDED NOTES | CLS | HORIZ.: 1"=60' / VERT.: 1"=6' |
| 1-16-02 | RECORD DRAWING | CLS | BOOK: PAGE: |
| | | | PROJECT NO.: 85-154 |

SHEET
6

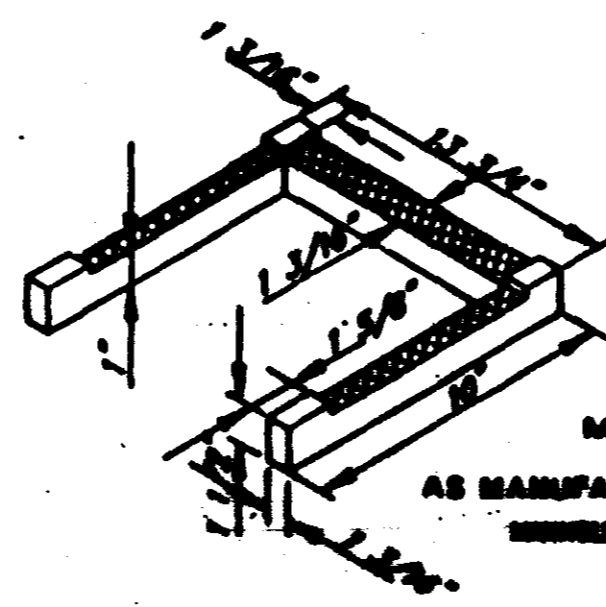


TOP PLAN OF COVER

FRAME & COVER WEIGHT 420 LBS.



SECTION

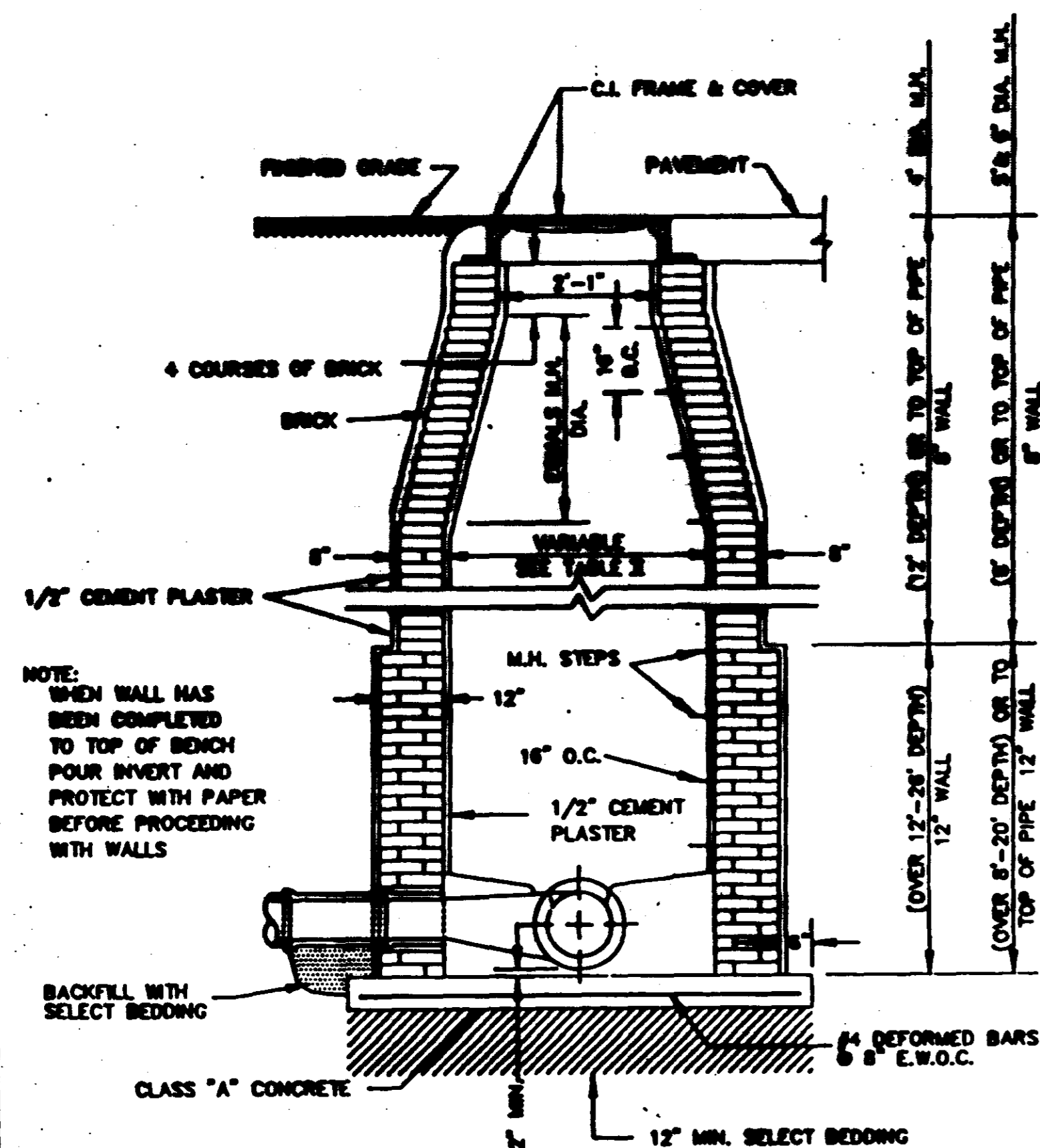


DETAIL 'B'

MODEL NO. PS2 - PF
AS MANUFACTURED BY M.A. INDUSTRIES INC.
MINOR CHANGES TO BE INDICATED.

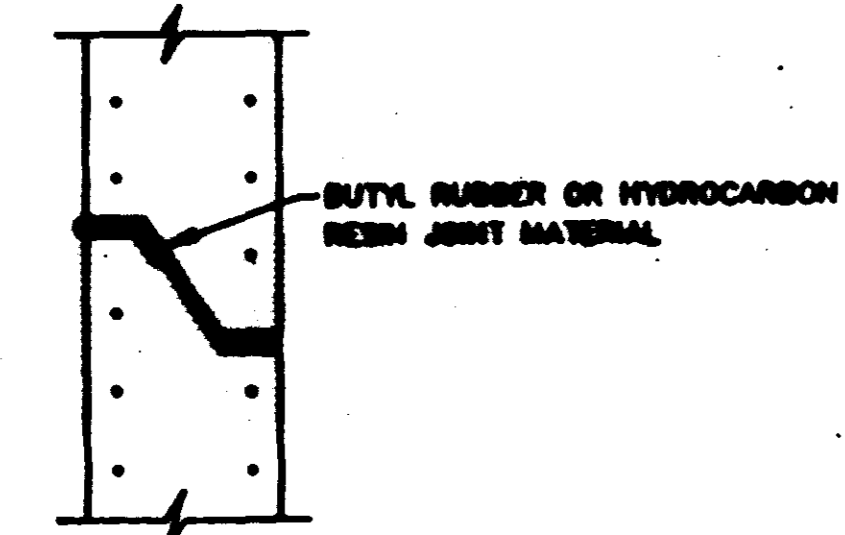
STANDARD MANHOLE FRAME AND COVER

N.T.S.



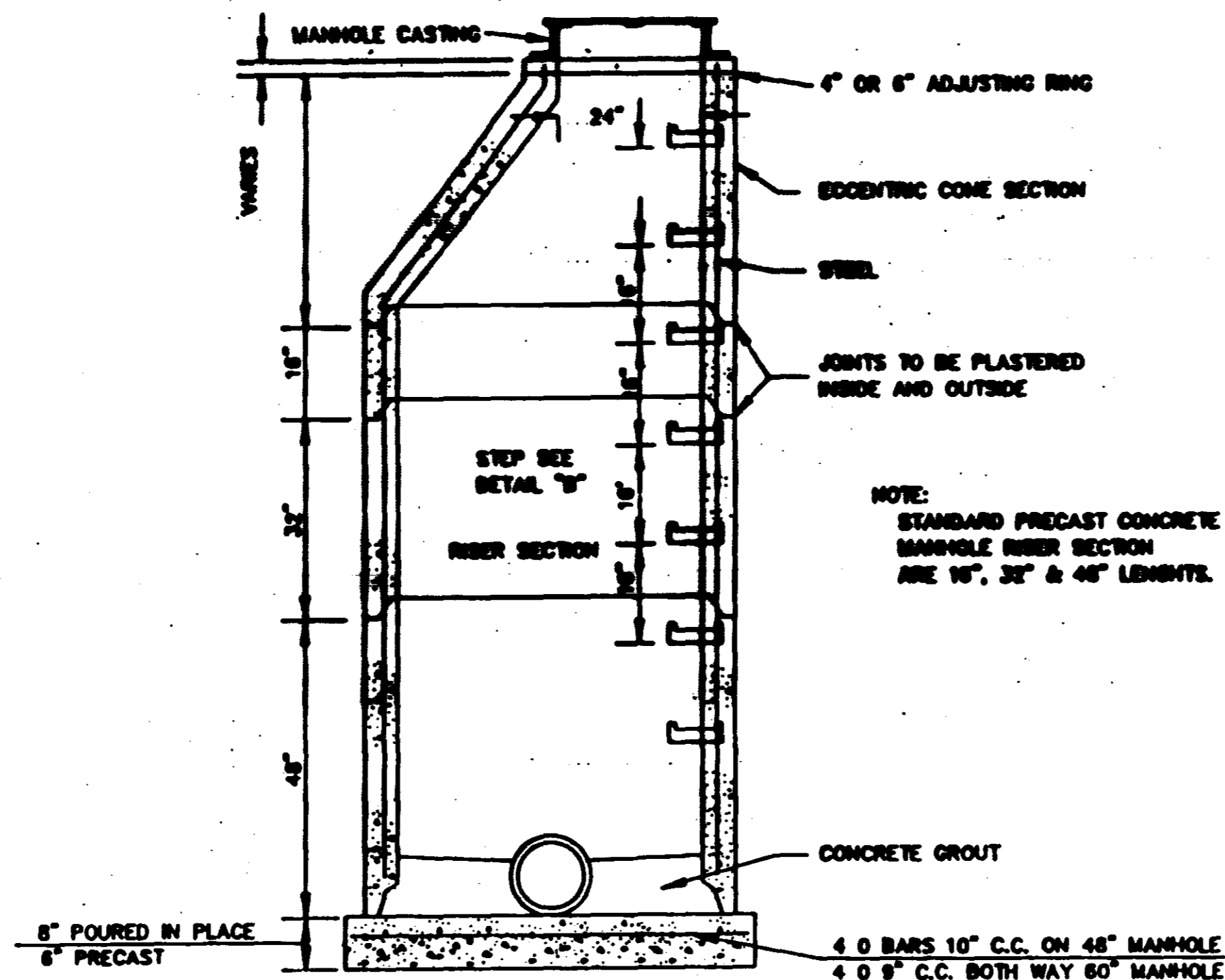
STANDARD BRICK MANHOLE

N.T.S.



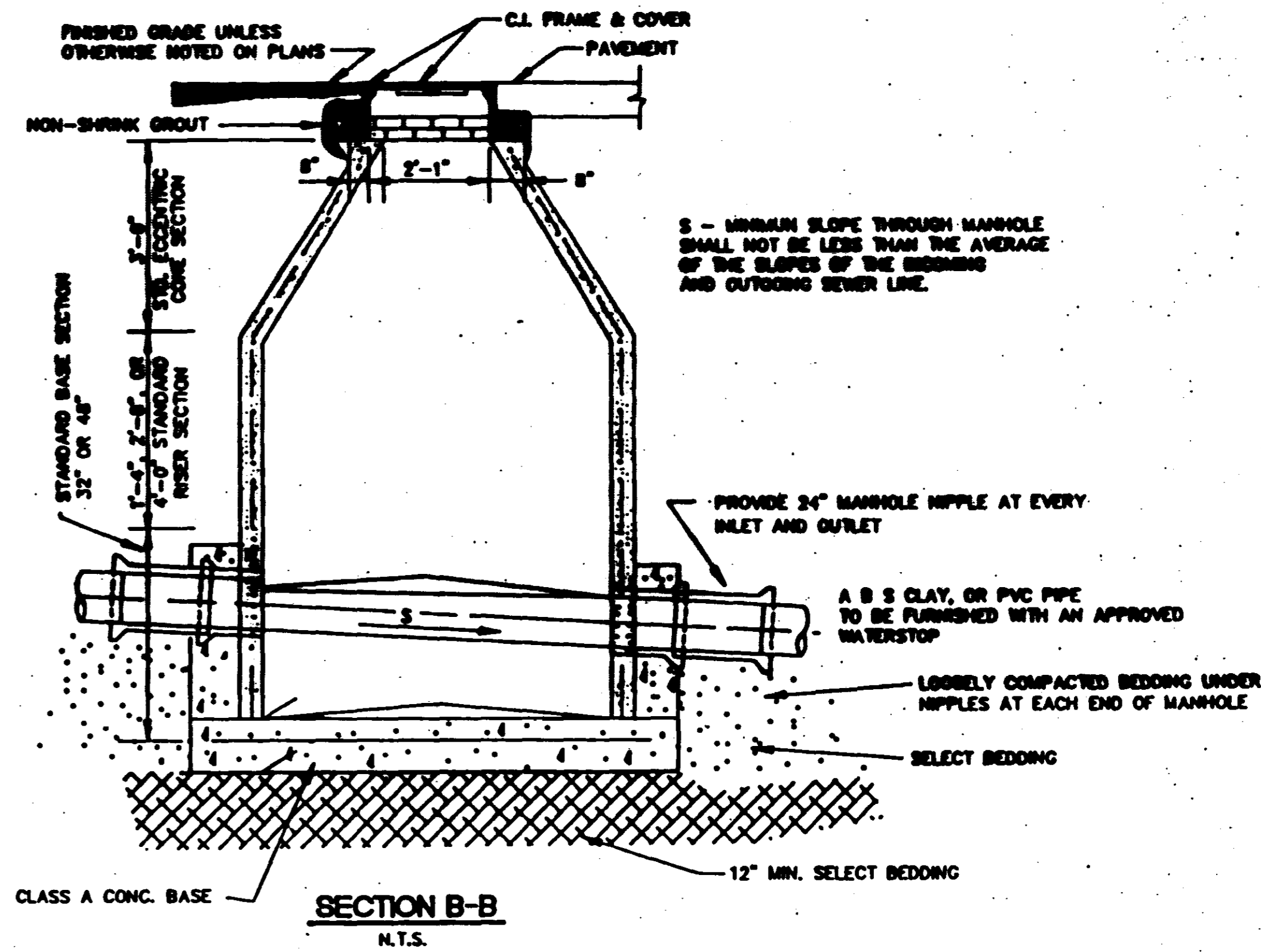
TYPICAL PRECAST CONCRETE MANHOLE JOINT DETAIL

N.T.S.



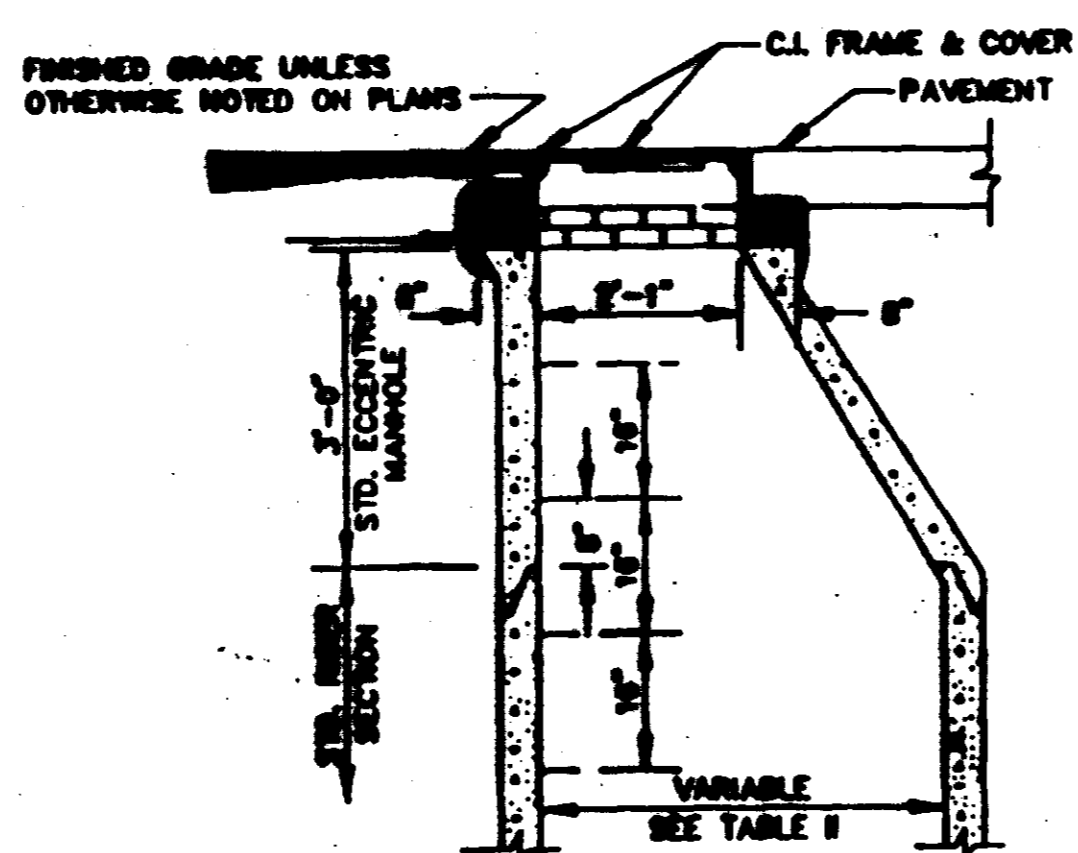
SECTION OF PRECAST CONCRETE MANHOLE

N.T.S.



SECTION B-B

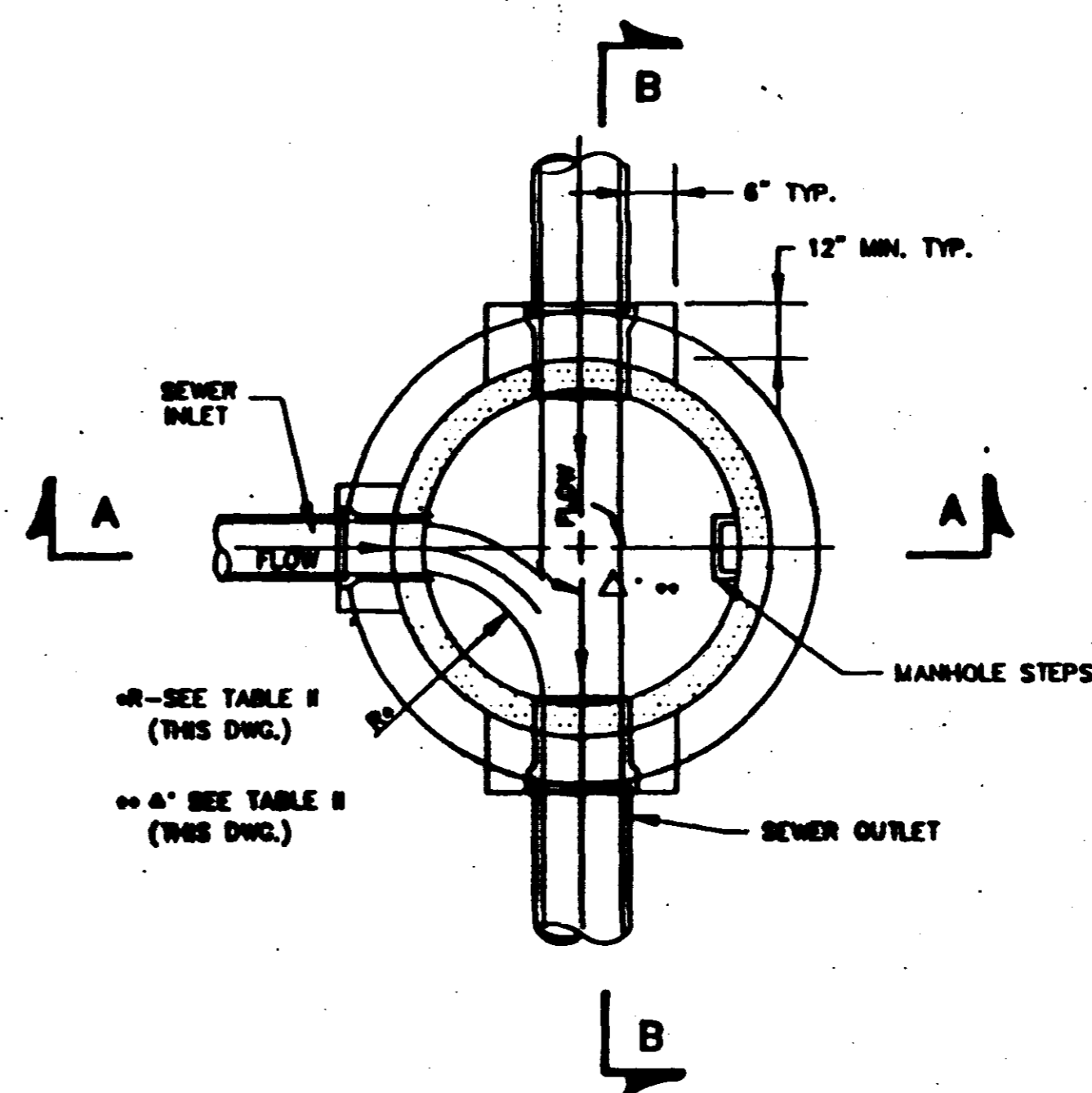
N.T.S.



NOTE:
DETAILS FOR RISER & BASE SECTIONS ARE SAME AS SHOWN IN SECTIONS A-A & B-B.

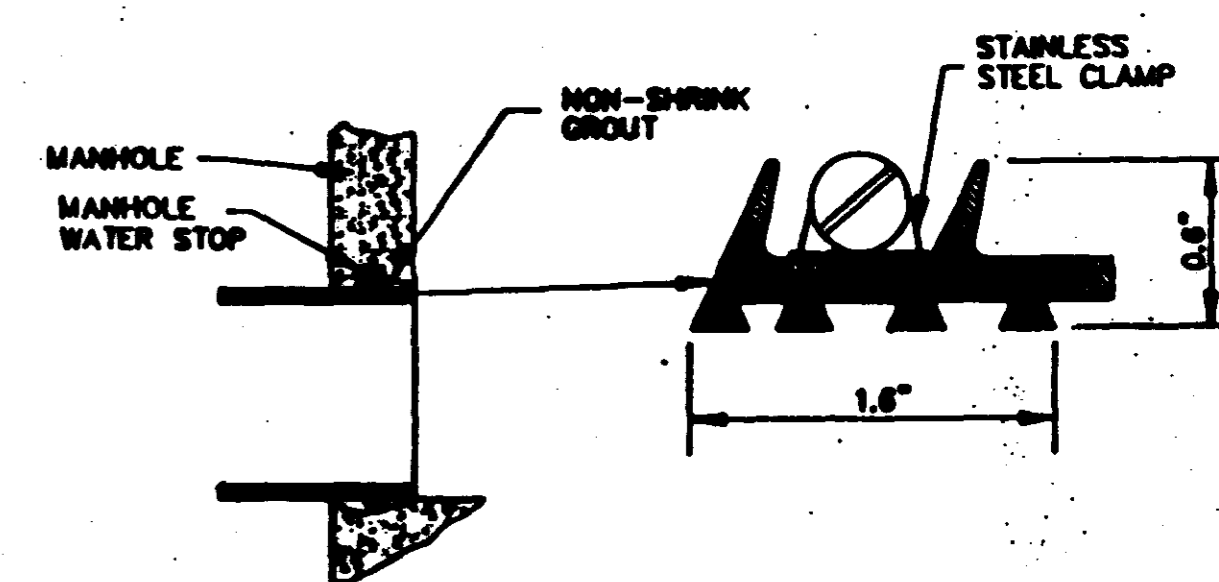
STANDARD ECCENTRIC CONE FOR ALL DIAMETER MANHOLES

N.T.S.



SECTIONAL PLAN STANDARD MANHOLE

N.T.S.



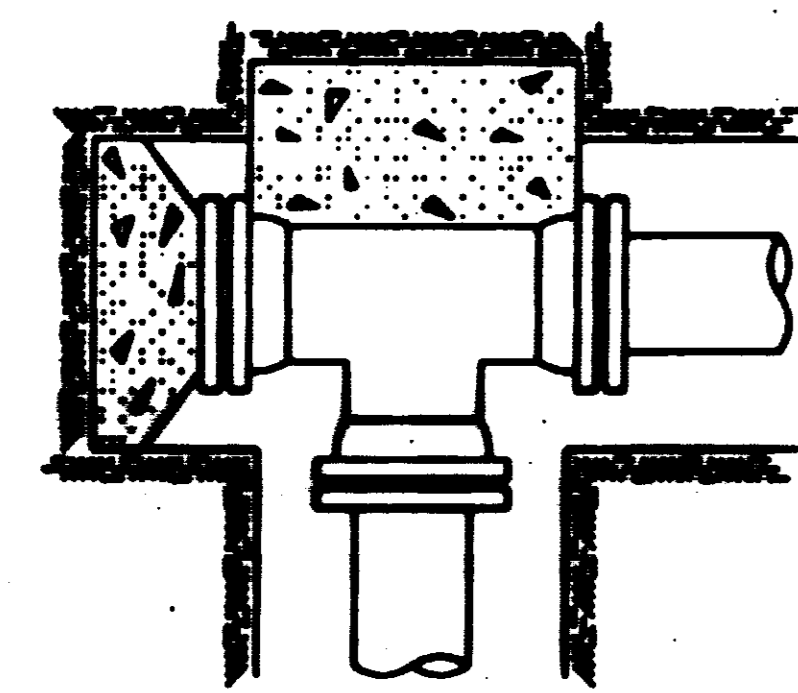
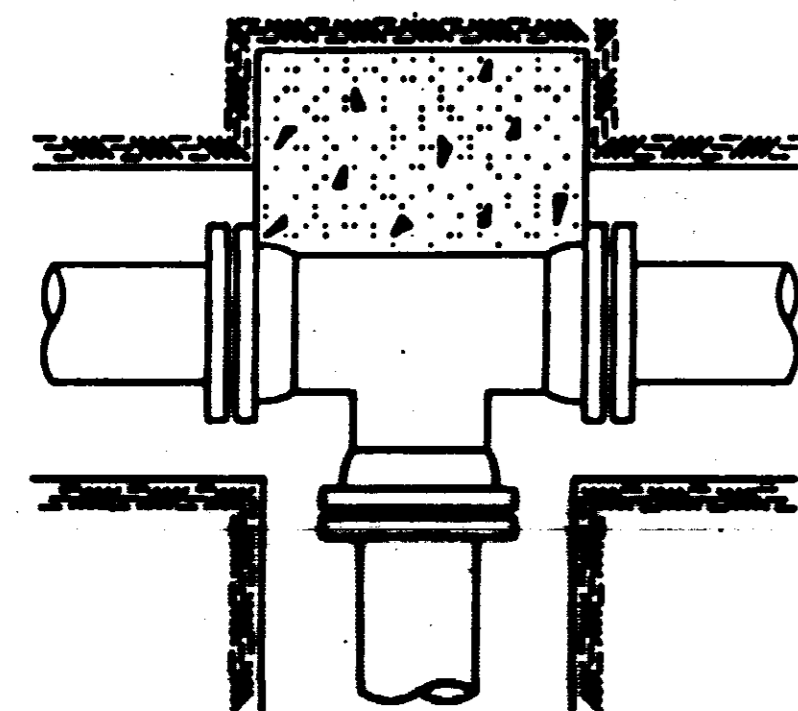
TYPICAL MANHOLE WATER STOP FOR ABS CLAY OR PVC PIPE

EXISTING AND "STRADDLE" MANHOLES
N.T.S.

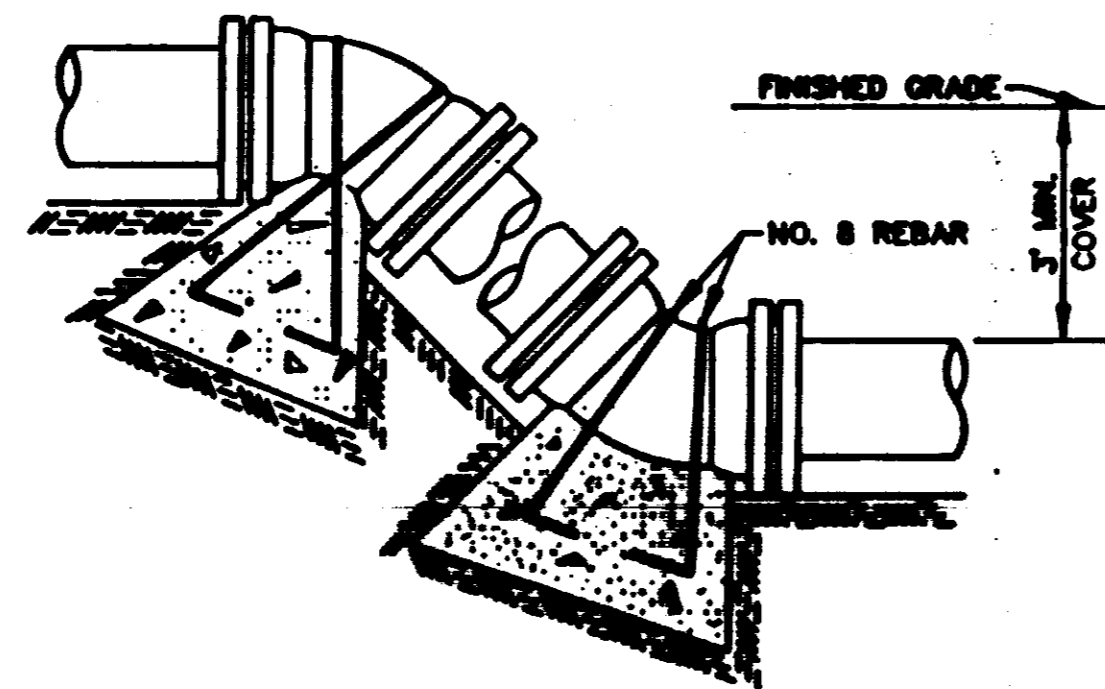
CITY OF RIDGELAND, MS.

STANDARD DETAILS

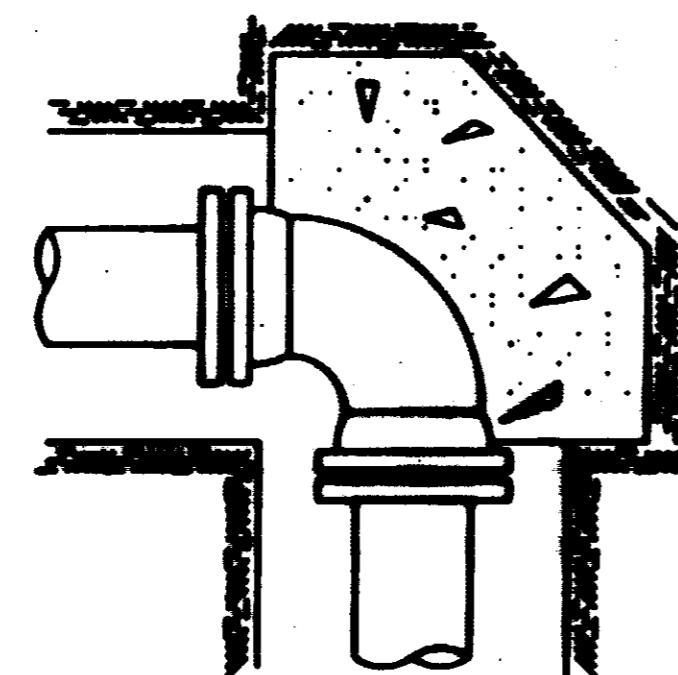
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| DATE: | 195 5/17/01 | DRAWING NO.: |
| BY: | | |
| CHECK: | | |
| SCALE: | | |



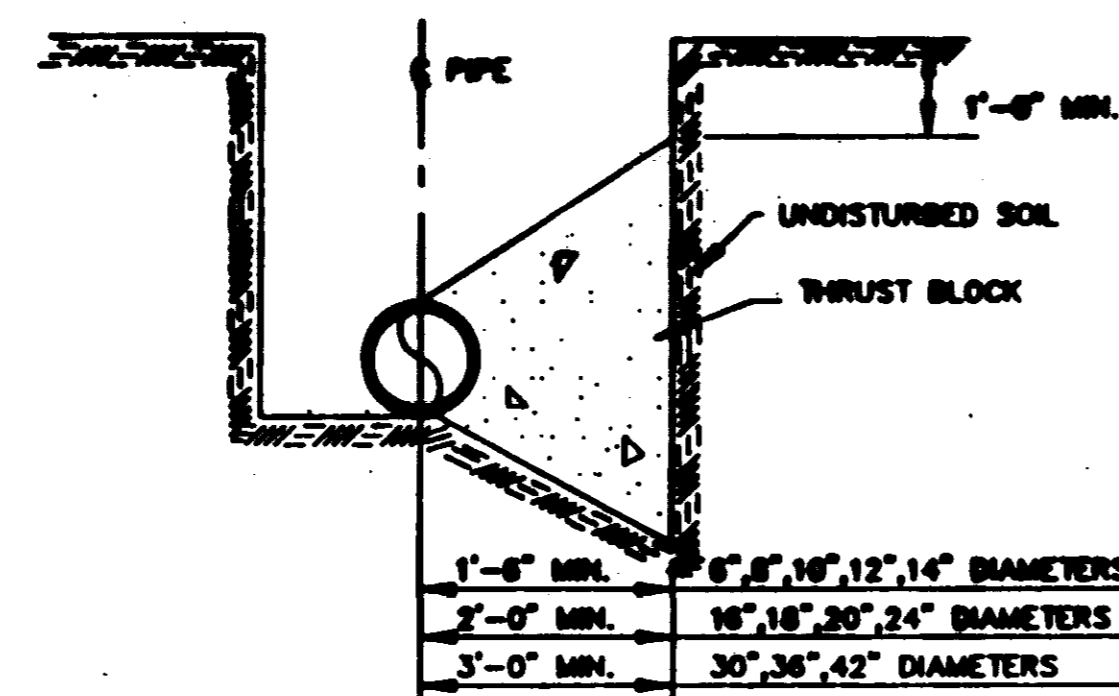
FLANGED TEE



VERTICAL BEND



90° BEND



TYPICAL CROSS SECTION

TYPICAL THRUST BLOCKING IN WATER MAINS AND SEWAGE FORCE MAINS

N.T.S.
NOTE: ALL THRUST BLOCKS 2,500 PSI CONCRETE AGAINST UNDISTURBED EARTH

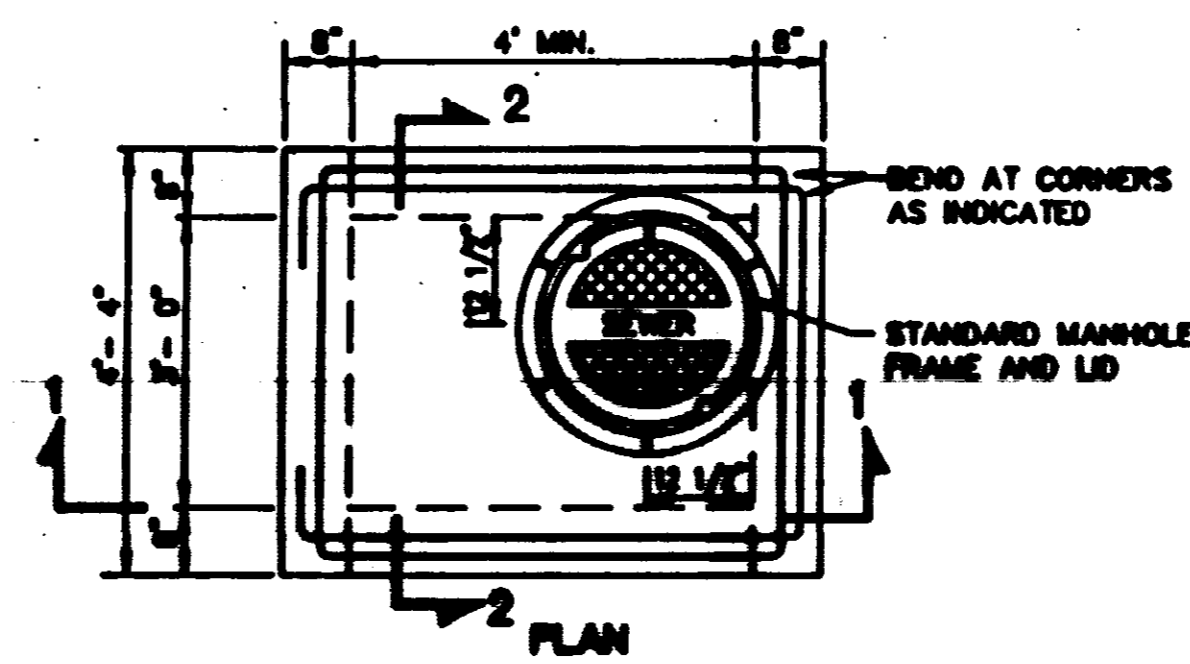
BEARING AREA IN SQ. FT.

| NOMINAL PIPE DIAMETER (IN) | VERTICAL BENDS | | | | | NOMINAL PIPE DIAMETER (IN) | VERTICAL BENDS | | | | |
|----------------------------|-----------------|----------|----------|--------------|--------------|----------------------------|-----------------|----------|------------|--------------|--------------|
| | HEAD-END OR TEE | 90° BEND | 45° BEND | 22 1/2° BEND | 11 1/4° BEND | | HEAD-END OR TEE | 90° BEND | 45° BEND | 22 1/2° BEND | 11 1/4° BEND |
| 6 | 2.5 | 3.0 | 3.0 | 3.0 | 2.0 | 6 | — | — | 38.0(1.9) | 14.0(3) | 7.0(3) |
| 8 | 4.0 | 6.0 | 3.0 | 3.0 | 2.0 | 8 | — | — | 48.0(1.7) | 25.0(9) | 13.0(5) |
| 10 | 6.0 | 9.0 | 5.0 | 3.5 | 2.0 | 10 | — | — | 68.0(2.5) | 37.0(1.4) | 19.0(7) |
| 12 | 9.0 | 11.0 | 6.0 | 3.5 | 2.0 | 12 | — | — | 87.0(3.6) | 52.0(1.9) | 27.0(1.0) |
| 14 | 12.0 | 15.0 | 6.0 | 5.0 | 2.5 | 14 | — | — | 130(4.8) | 70.0(2.4) | 35.0(1.3) |
| 16 | 16.0 | 22.0 | 12.0 | 5.5 | 3.0 | 16 | — | — | 180(6.3) | 91.0(3.4) | 46.0(1.7) |
| 18 | 20.0 | 28.0 | 15.0 | 6.0 | 4.0 | 18 | — | — | 211(7.8) | 114(4.2) | 58.0(2.2) |
| 20 | 24.0 | 34.0 | 18.0 | 6.0 | 5.0 | 20 | — | — | 280(10.4) | 140(5.2) | 72.0(2.6) |
| 24 | 36.0 | 48.0 | 27.0 | 14.0 | 7.0 | 24 | — | — | 370(13.7) | 200(7.4) | 100(3.6) |
| 30 | 54.0 | 70.0 | 41.0 | 21.0 | 10.0 | 30 | — | — | 560(21.1) | 300(11.1) | 150(5.5) |
| 36 | 77.0 | 100.0 | 56.0 | 30.0 | 15.0 | 36 | — | — | 814(29.1) | 440(16.3) | 220(8.3) |
| 42 | 104.0 | 140.0 | 76.0 | 40.0 | 20.0 | 42 | — | — | 1100(40.7) | 600(22.0) | 300(11.2) |

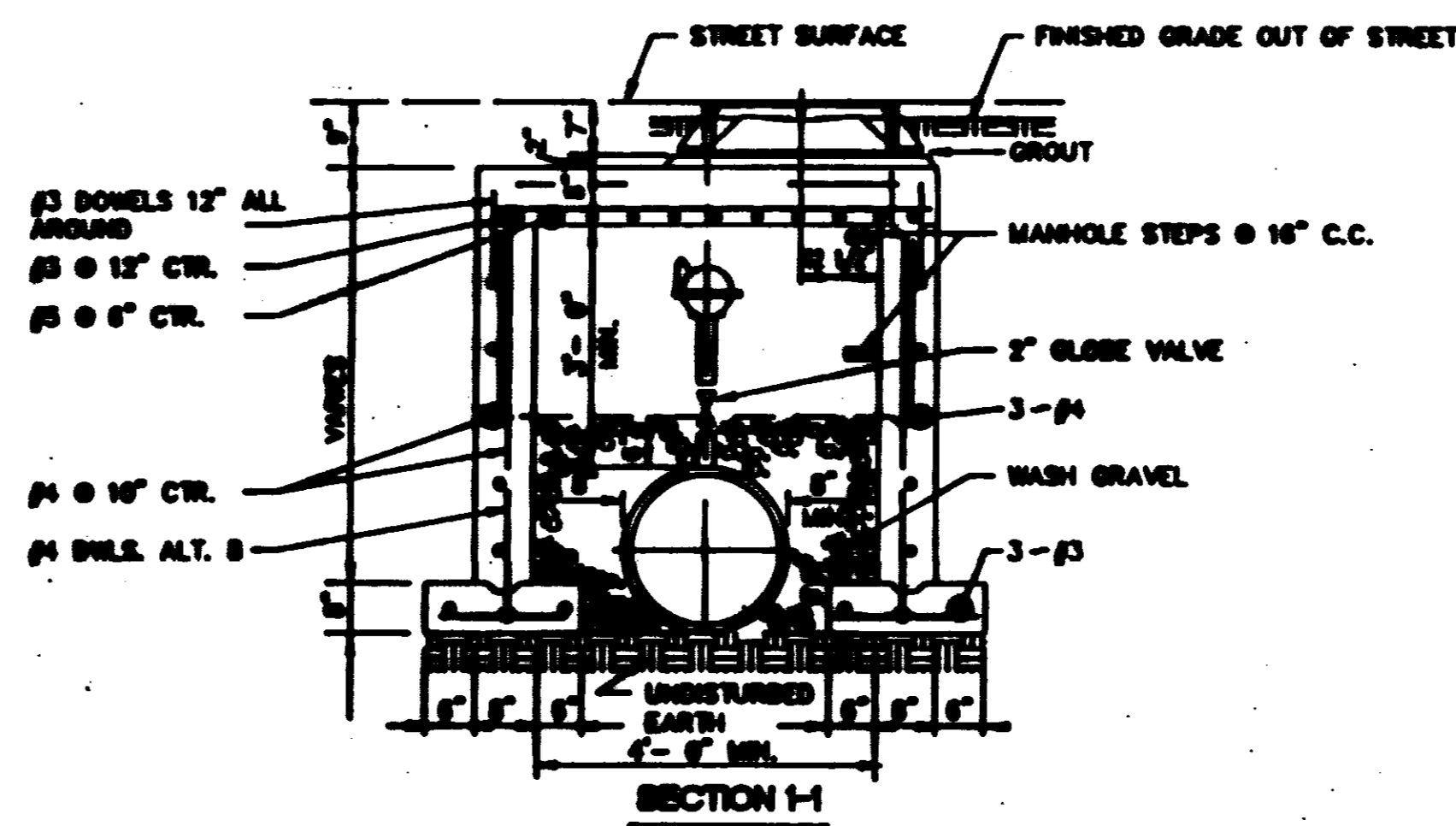
VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)

NOTE: ABOVE VALUES CALCULATED USING P-100 AND ALLOWANCE. SOIL BRG. = 1500 PSF. FOR DIFFERENT P, MULTIPLY ABOVE VALUES BY P/100. FOR DIFFERENT SOIL BRG, MULTIPLY ABOVE VALUES BY 1000/2.5.

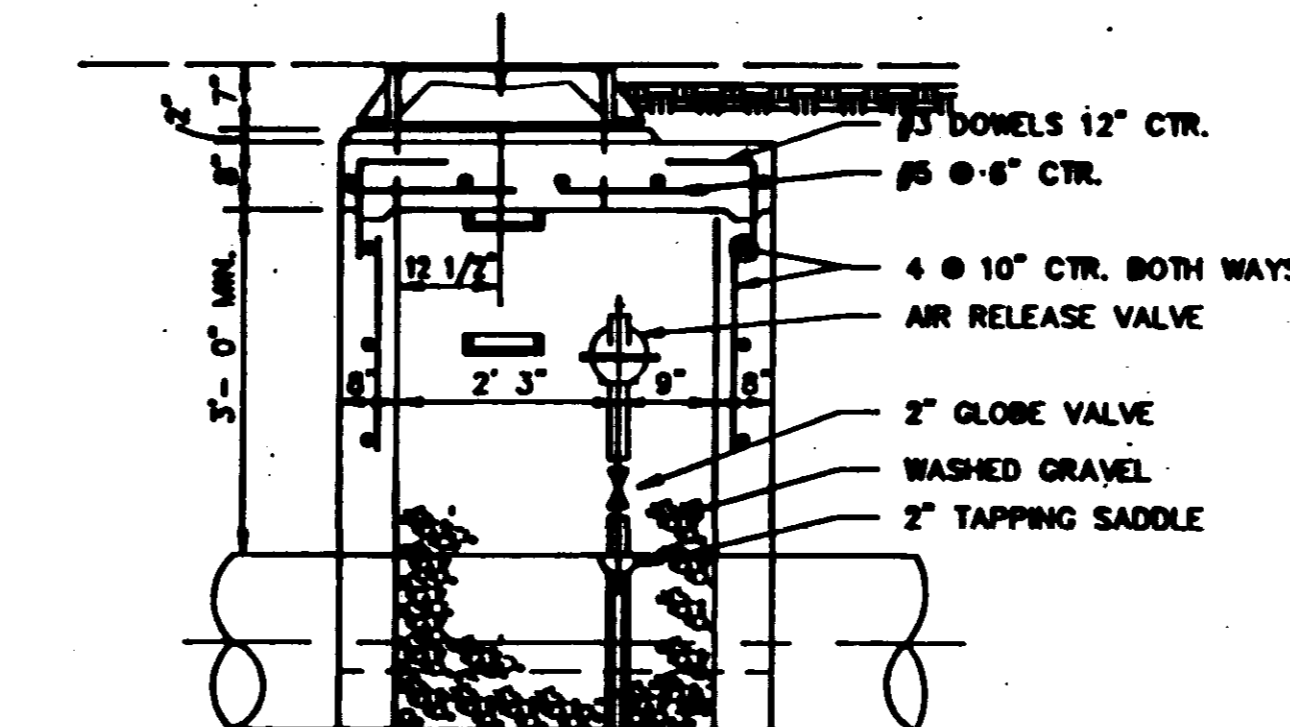
NOTE: ABOVE VALUES REPRESENT THE VOLUME OF BLOCKS INCLUDING SOIL LOAD IN CUFT. (CU.YDS.) THE VALUES WERE CALCULATED USING A P=100 PSF AND A S.F.=1.5. FOR DIFFERENT P, MULTIPLY VALUES BY P/100.



PLAN



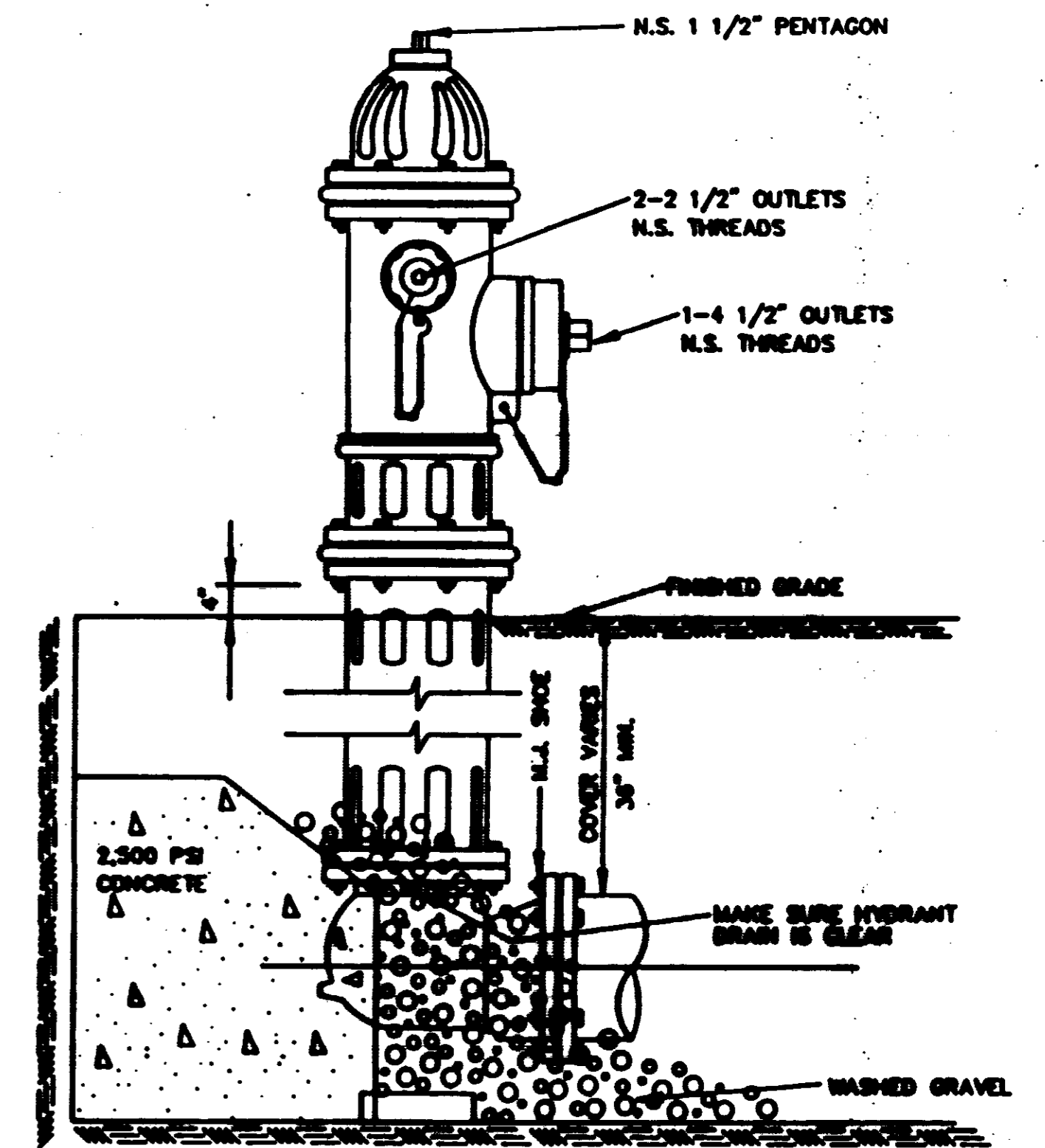
SECTION 1-1



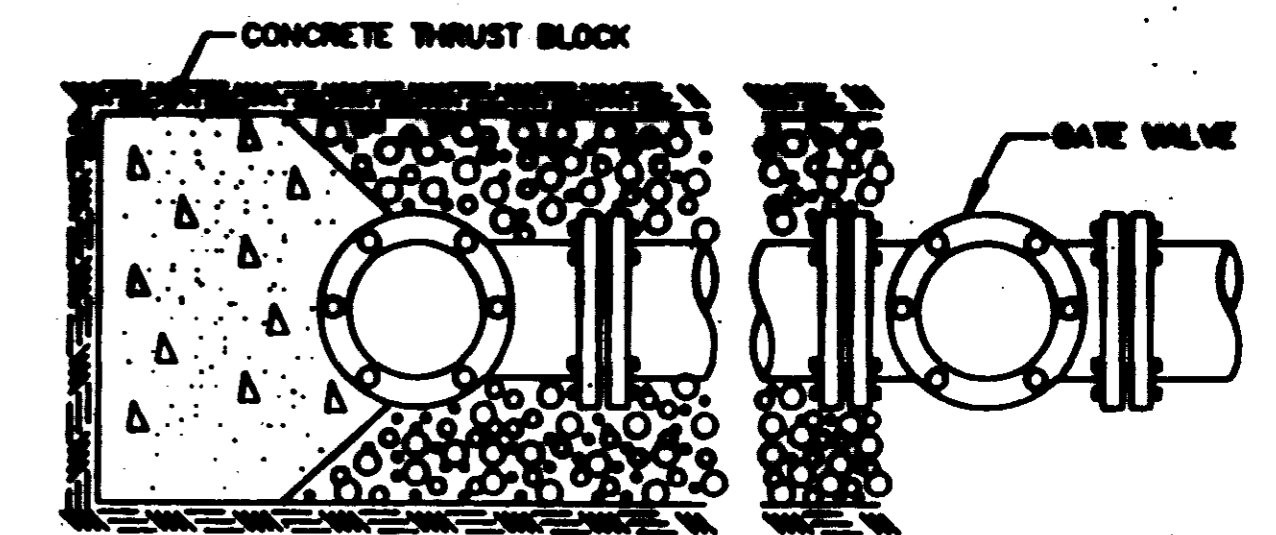
SECTION 2-2

TYPICAL AIR OR AIR VACUUM RELEASE VALVE INSTALLATION WITH MANHOLE

NOT TO SCALE



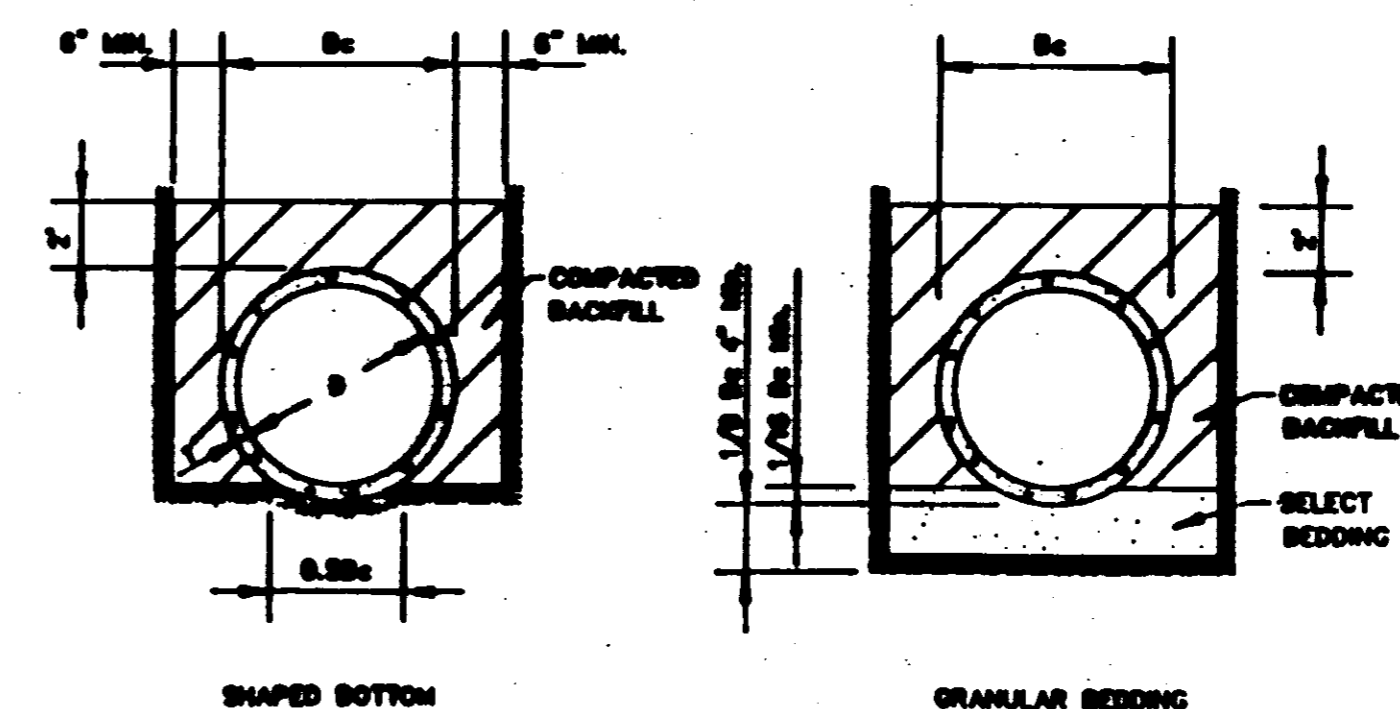
ELEVATION



PLAN

TYPICAL FIRE HYDRANT INSTALLATION

NOTE: GATE VALVES WILL BE REQUIRED ON ALL FIRE HYDRANT LEGS. N.T.S. ANCHOR COUPLINGS REQ'D.

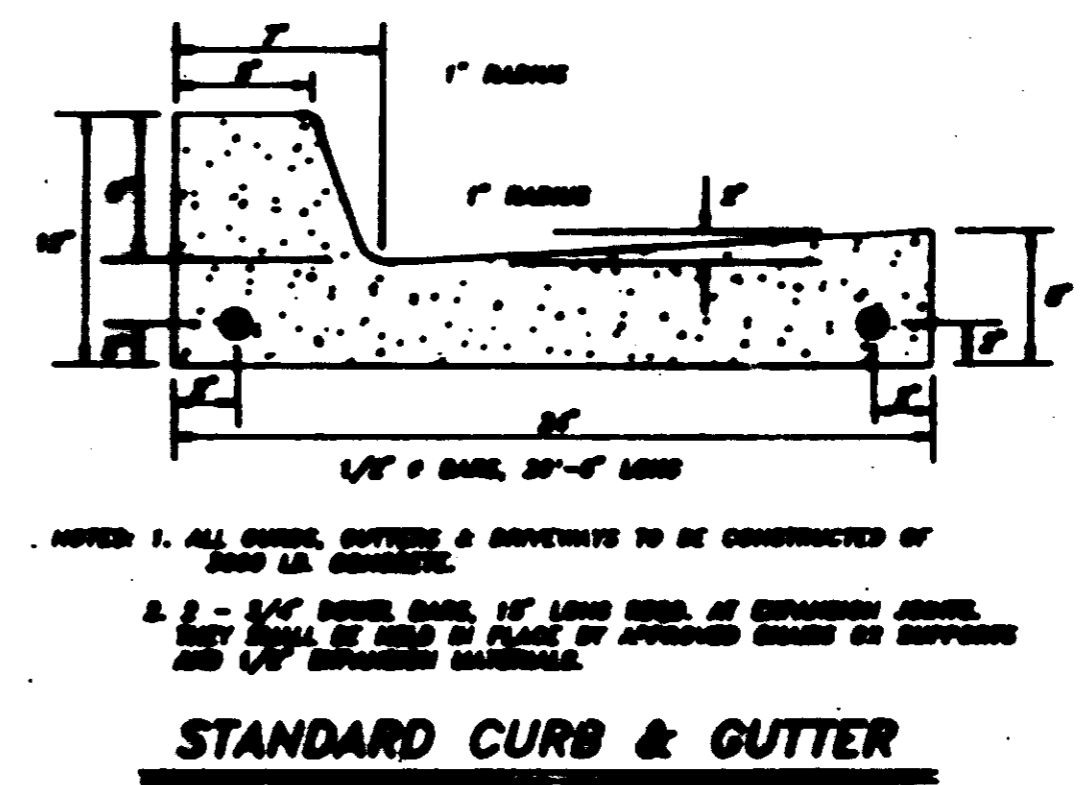
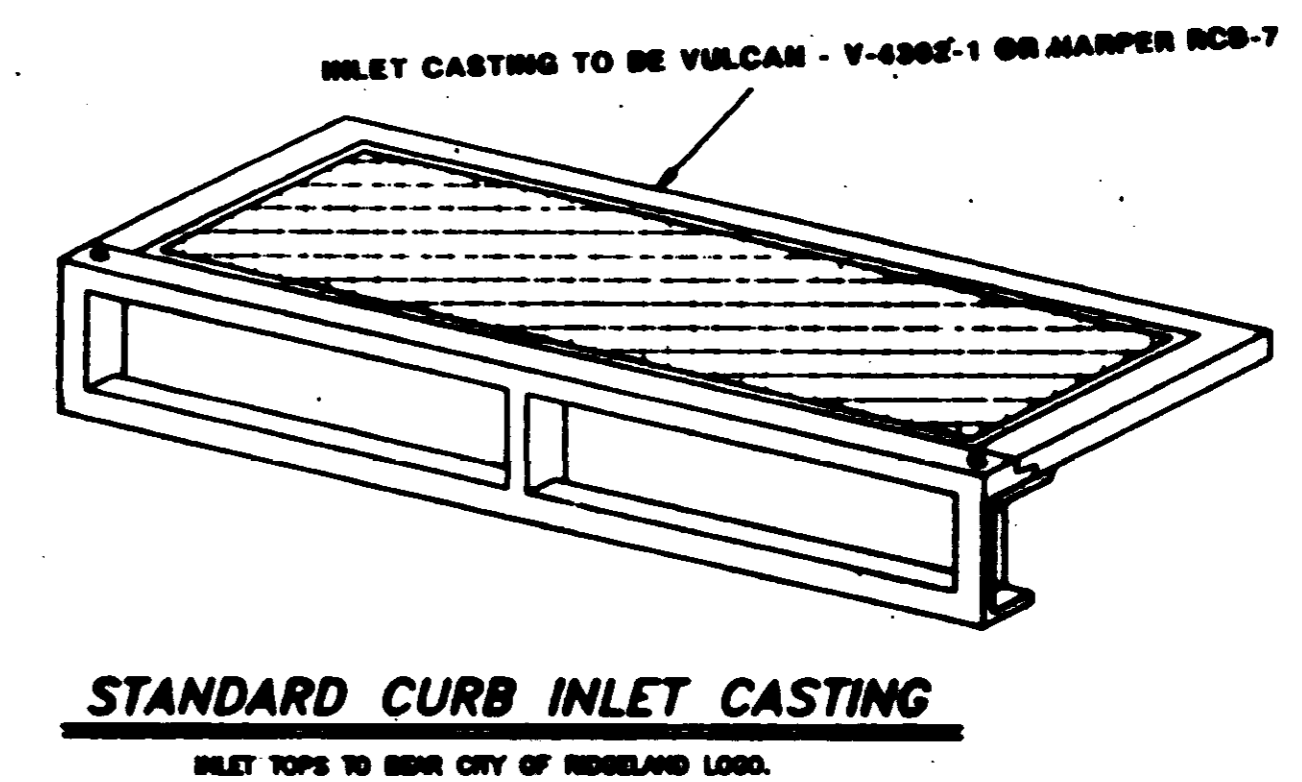
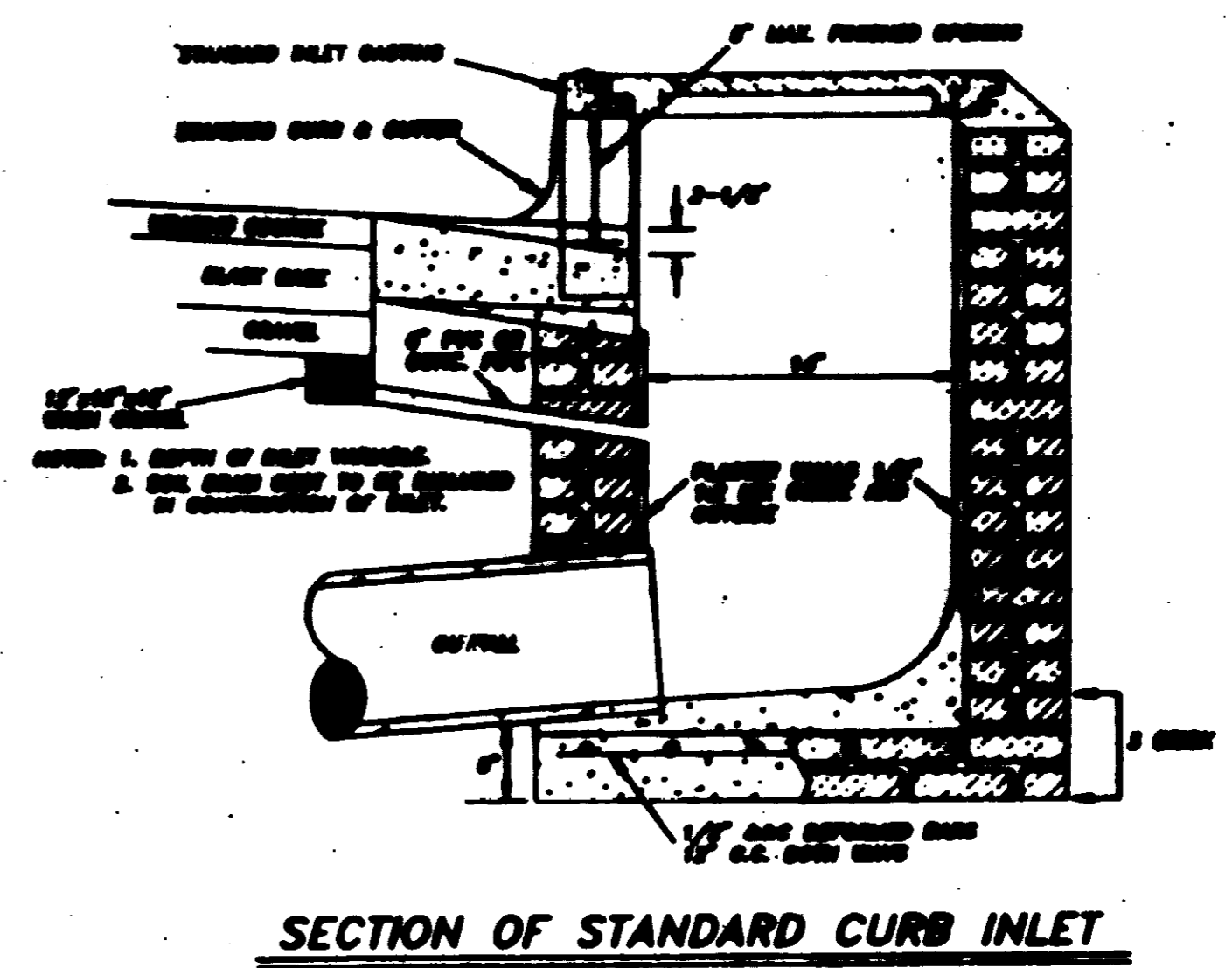
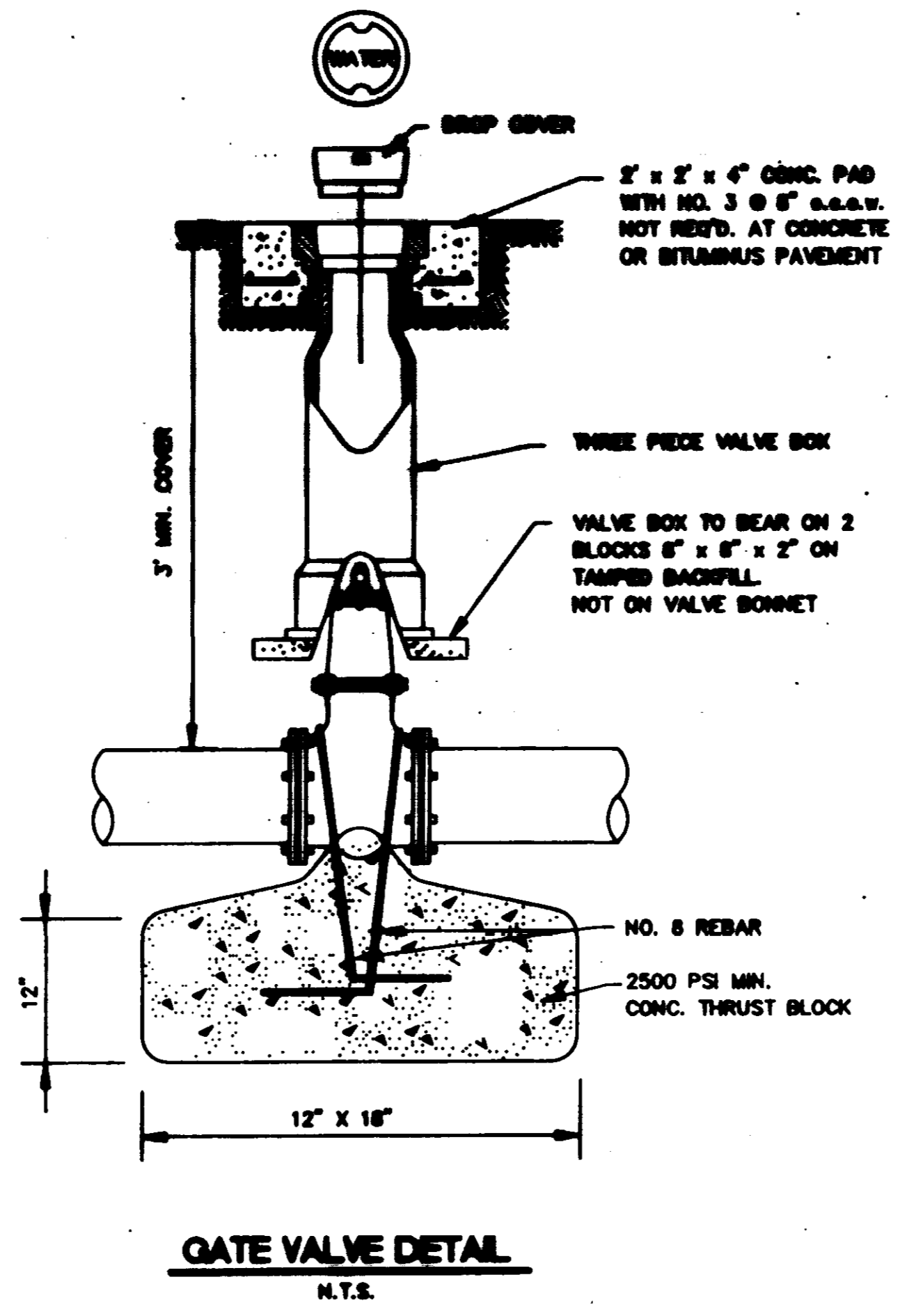
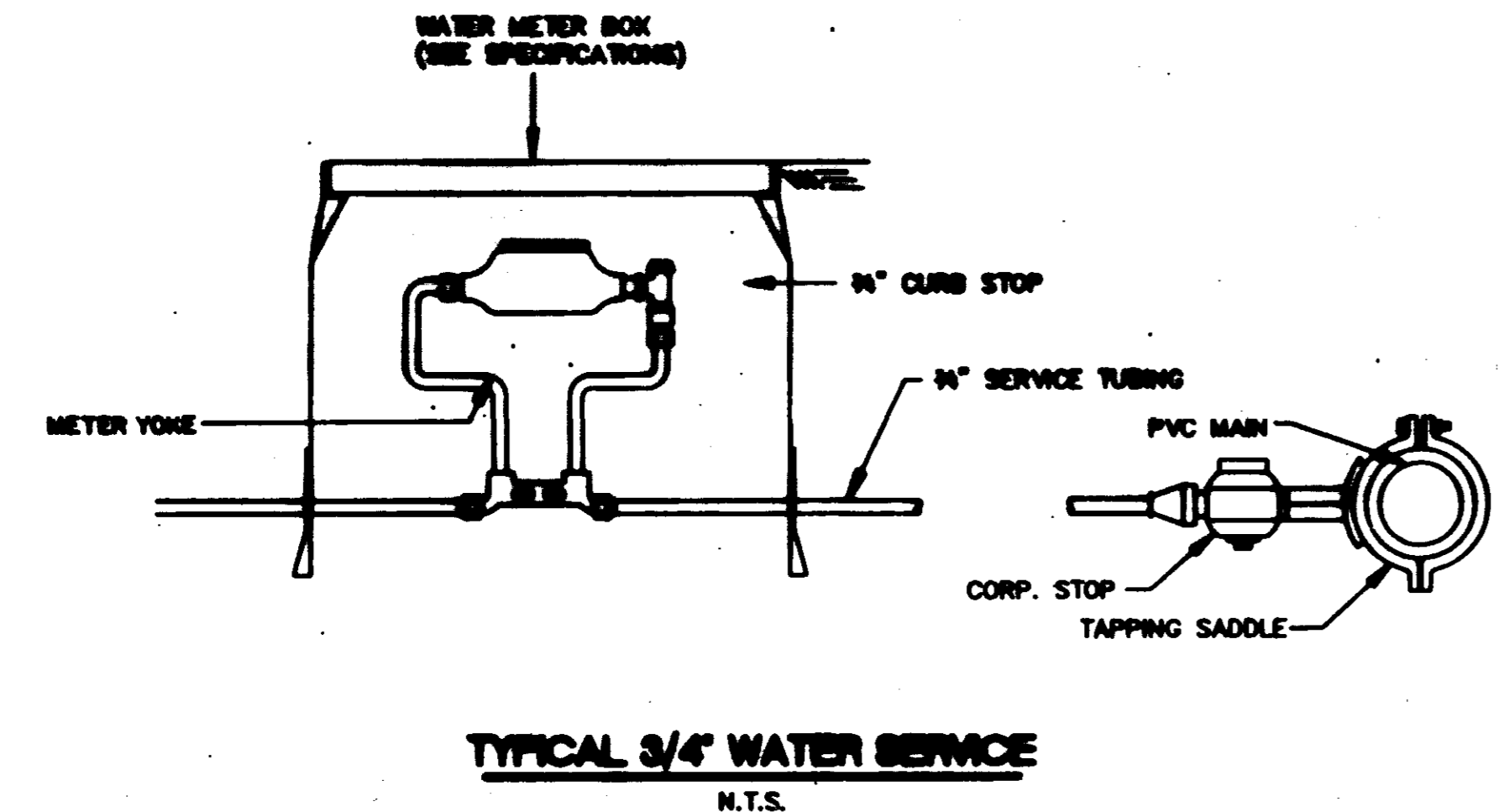
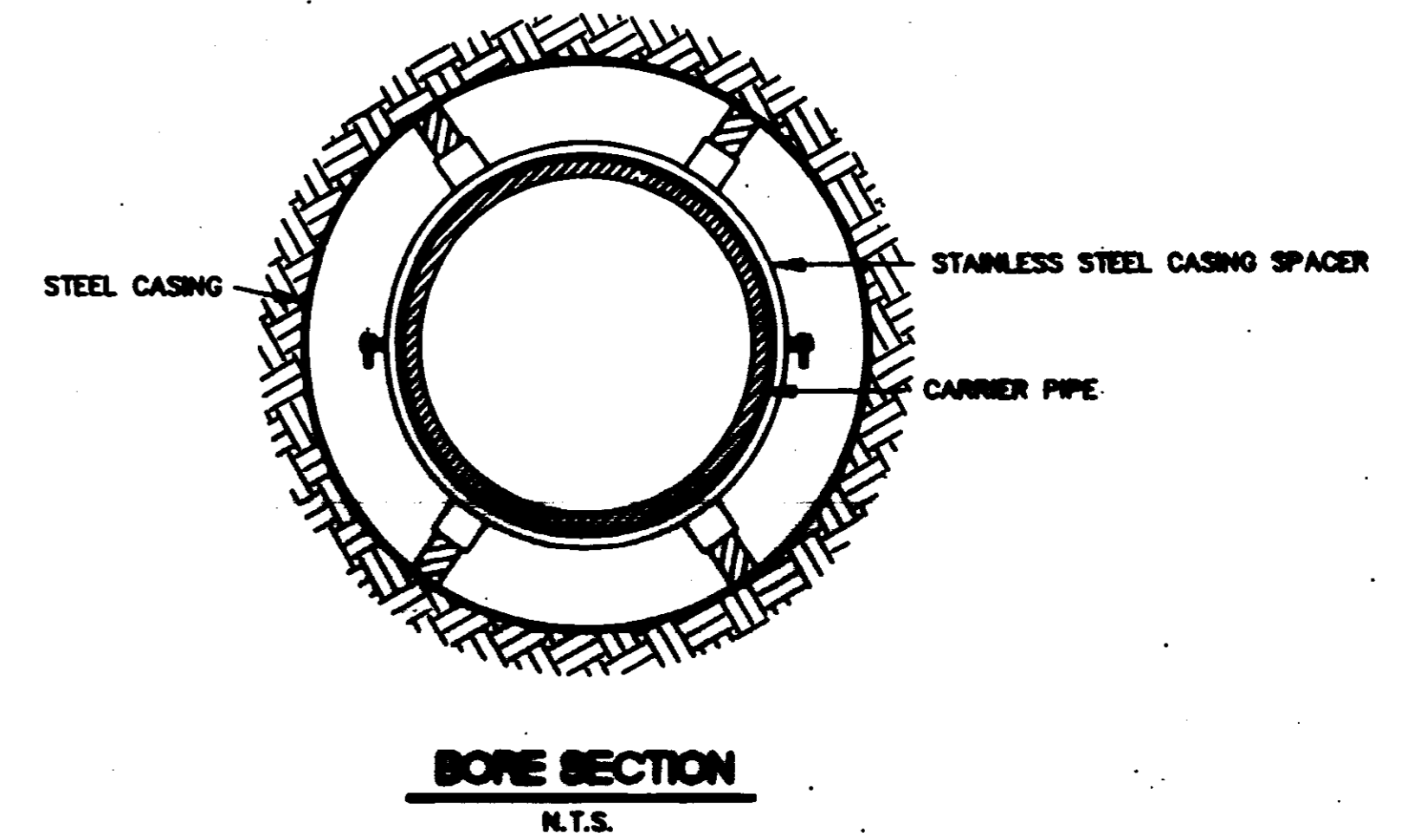
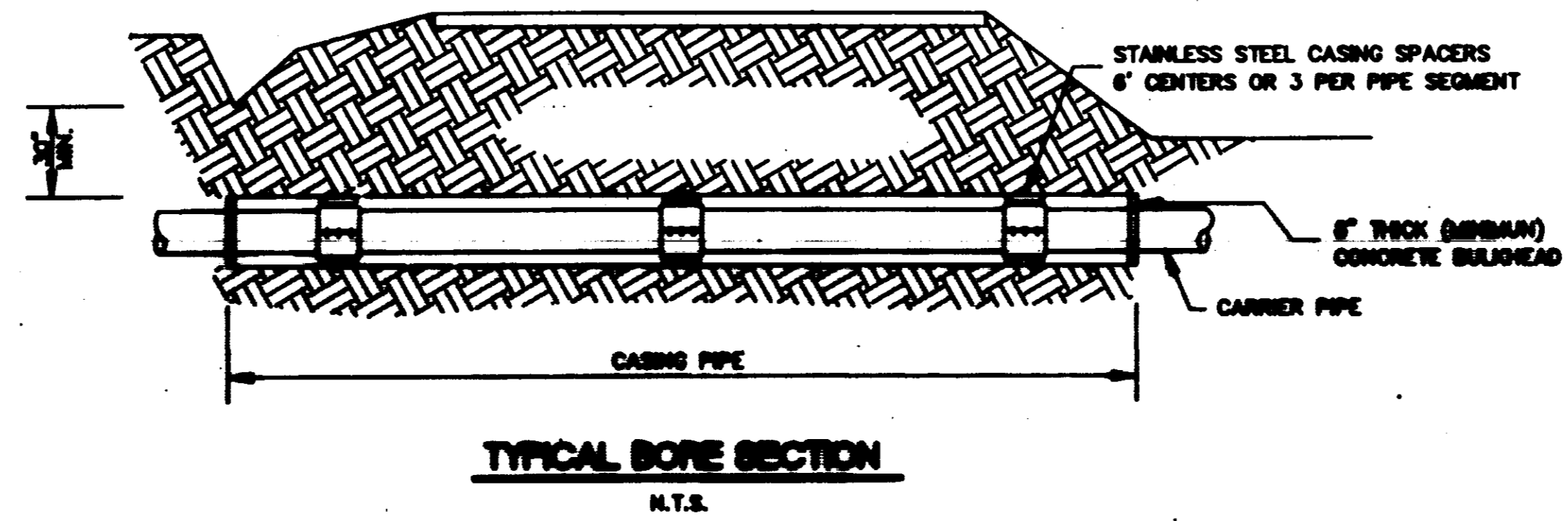
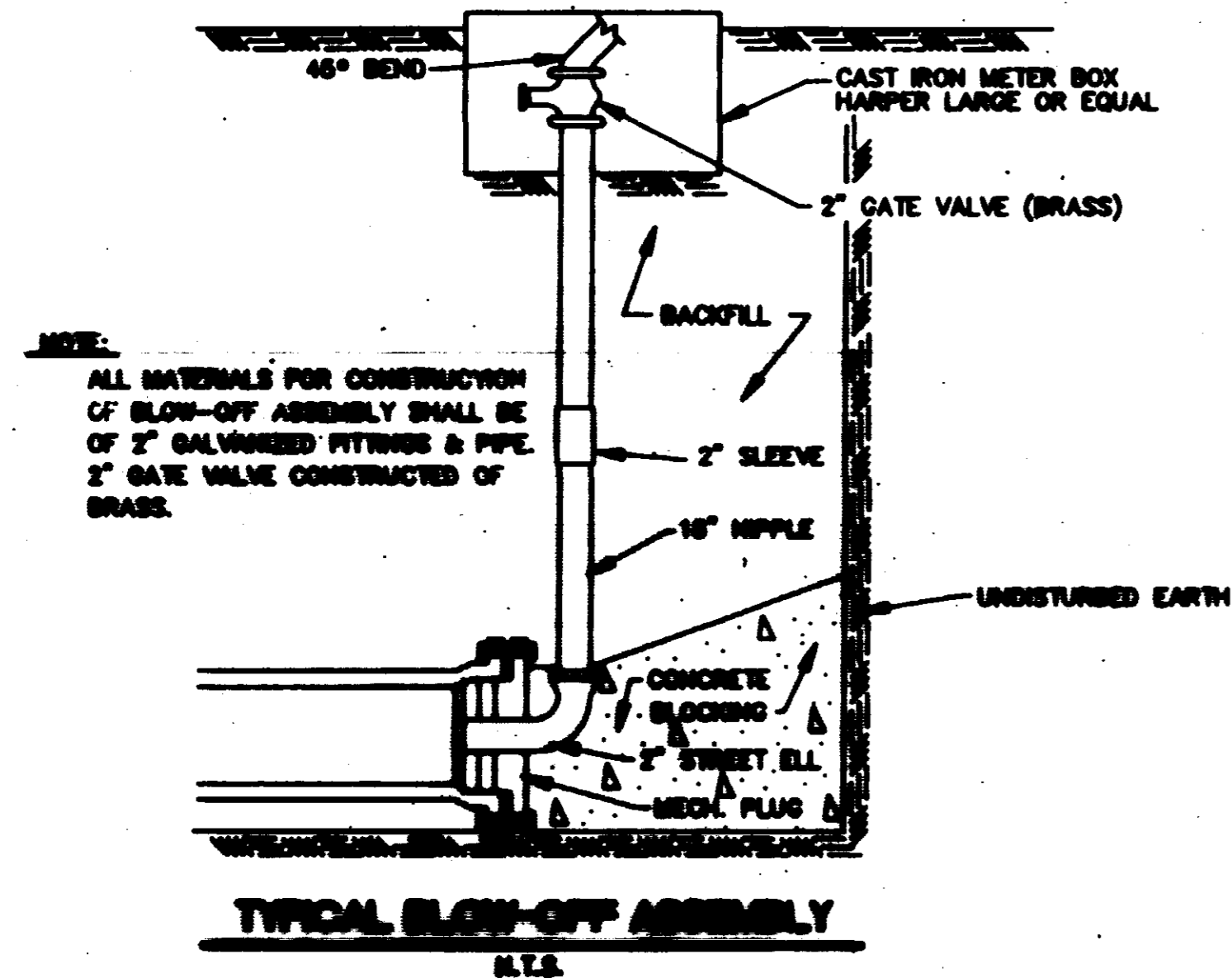


TYPICAL TRENCH DETAILS

N.T.S.

CITY OF RIDGELAND, MS. STANDARD DETAILS

| | | |
|-------|----------|--------------|
| DATE: | APP. BY: | DRAWING NO.: |
| | | |
| | | |
| | | |



NOTES: 1. ALL CURB, GUTTERS & GRATES TO BE CONSTRUCTED OF 2500 LB. CONCRETE.
2. 1/2" GALV. CURB, 1/2" GALV. GUTTER, 1/2" GALV. GRATE, ALL MATERIALS TO BE USED IN PLACE OF APPROVED BRAND OR EQUIVALENT 1/2" GALV. EQUIVALENT MATERIALS.

CITY OF RIDGELAND, MS.

STANDARD DETAILS

| | | | |
|-----------|--|--------------|--|
| DATE: | | DESIGNED BY: | |
| DRAWN BY: | | CHECKED BY: | |
| SCALE: | | | |

3 of 4

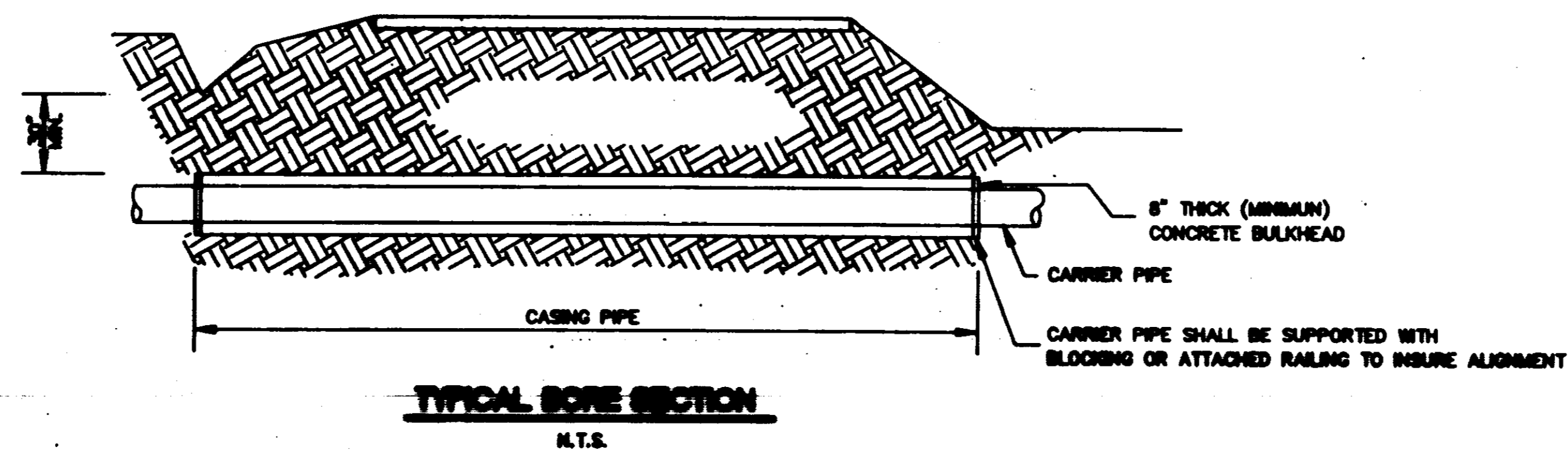
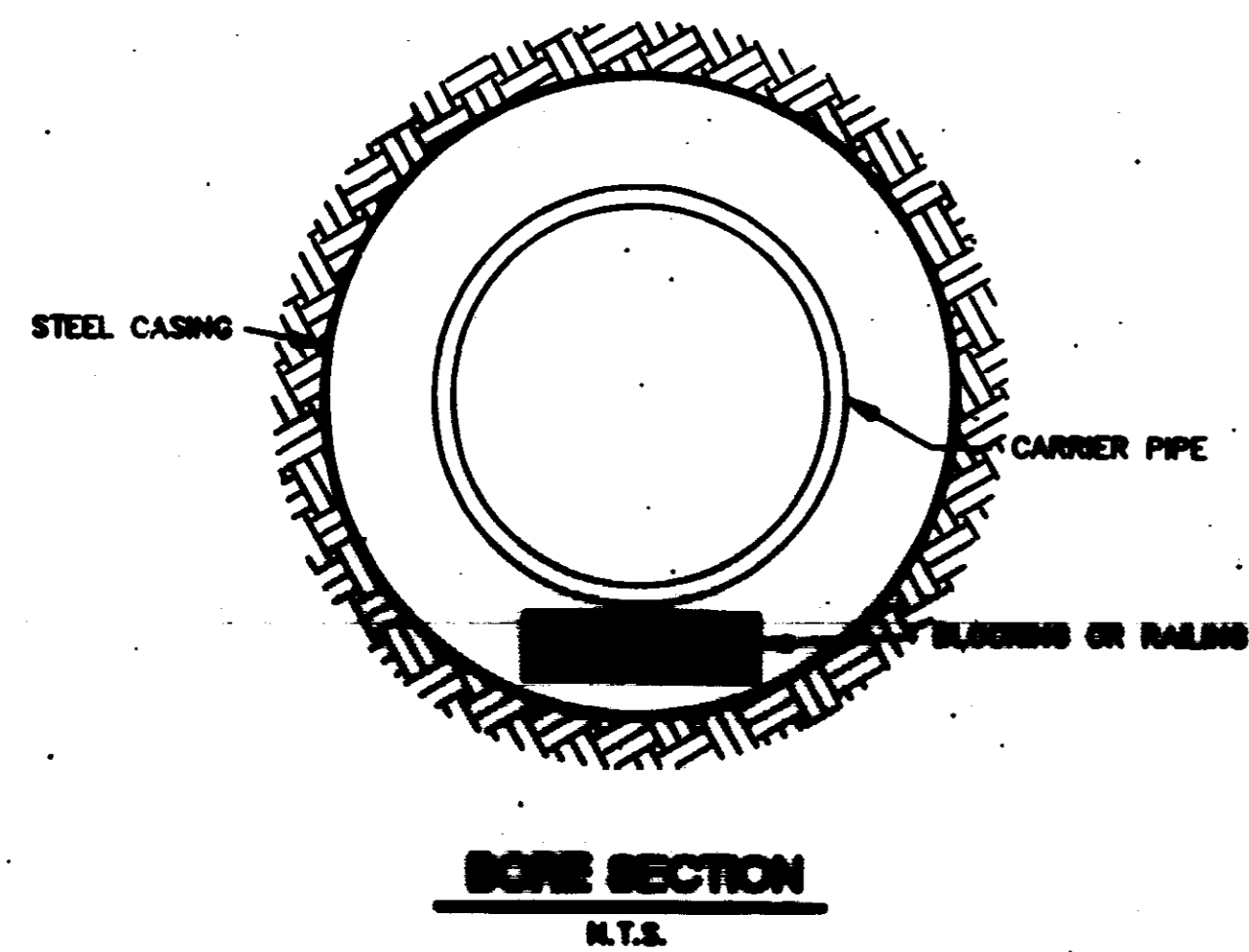
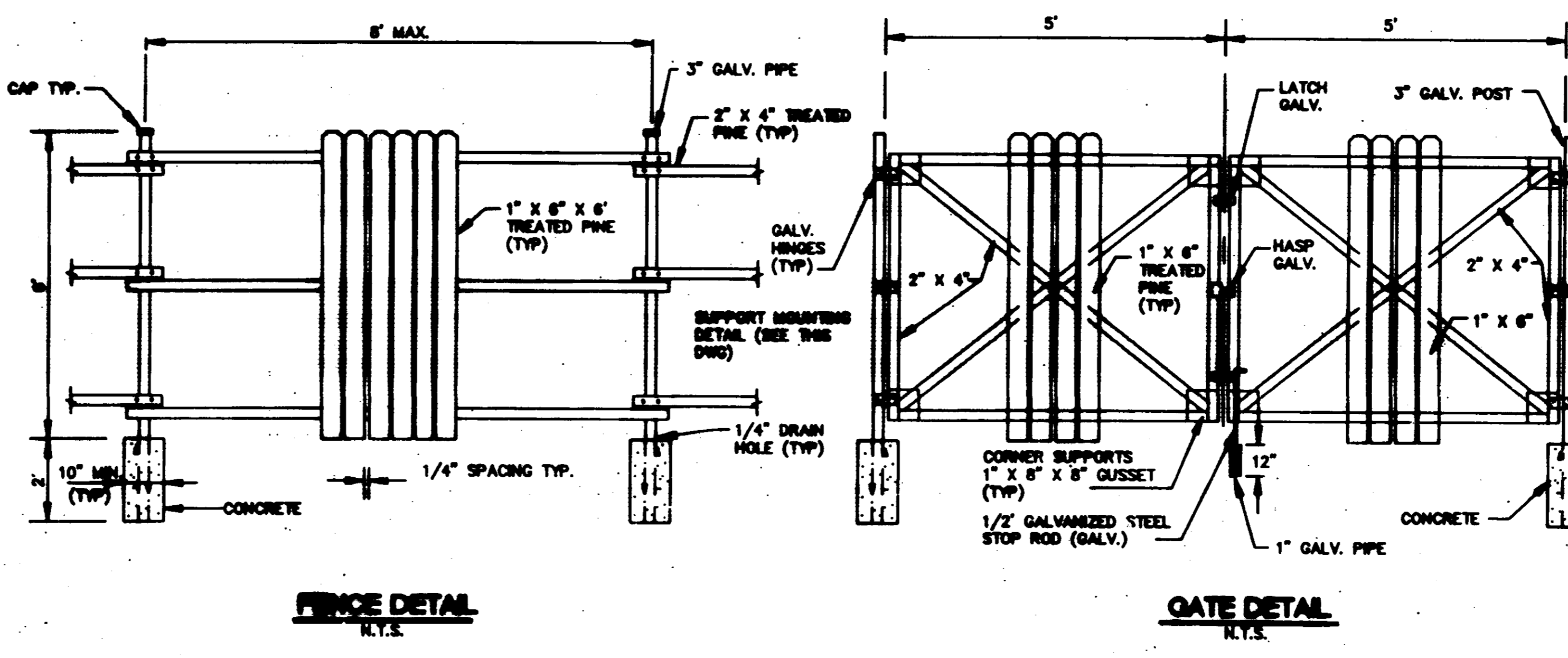
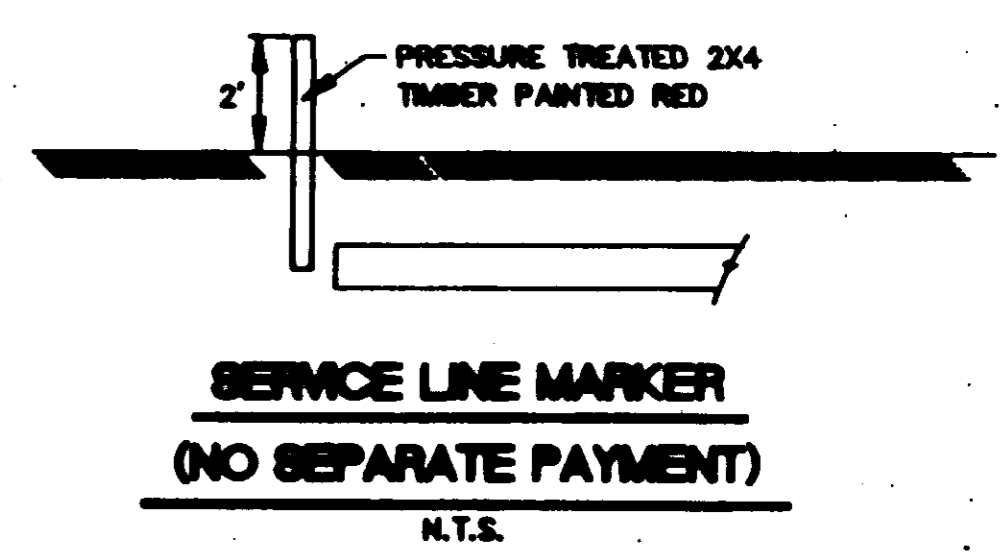
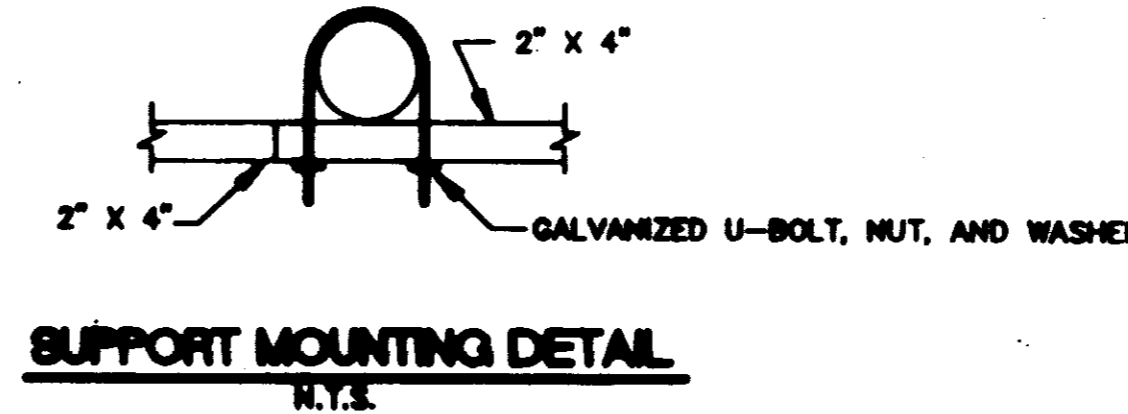
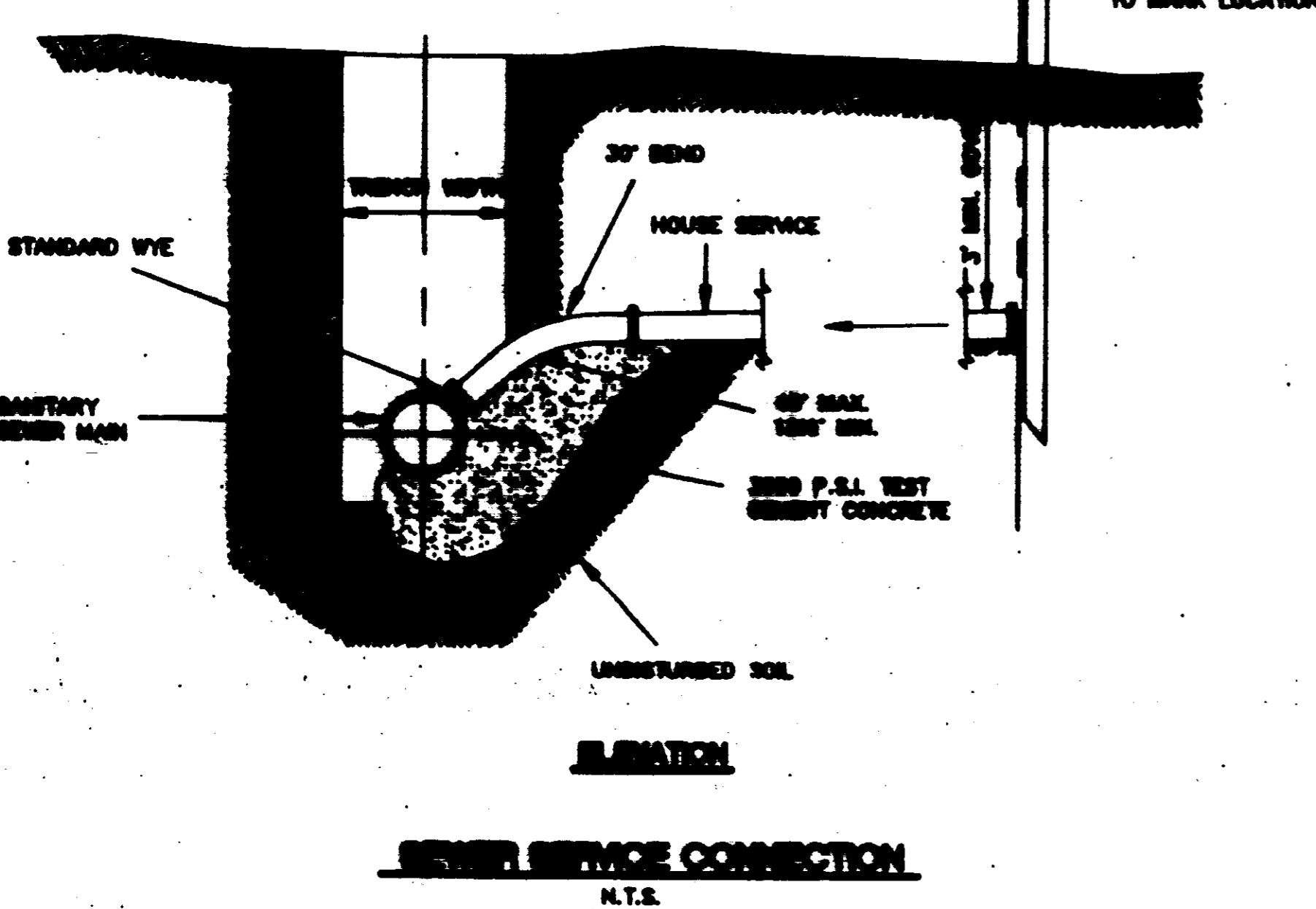
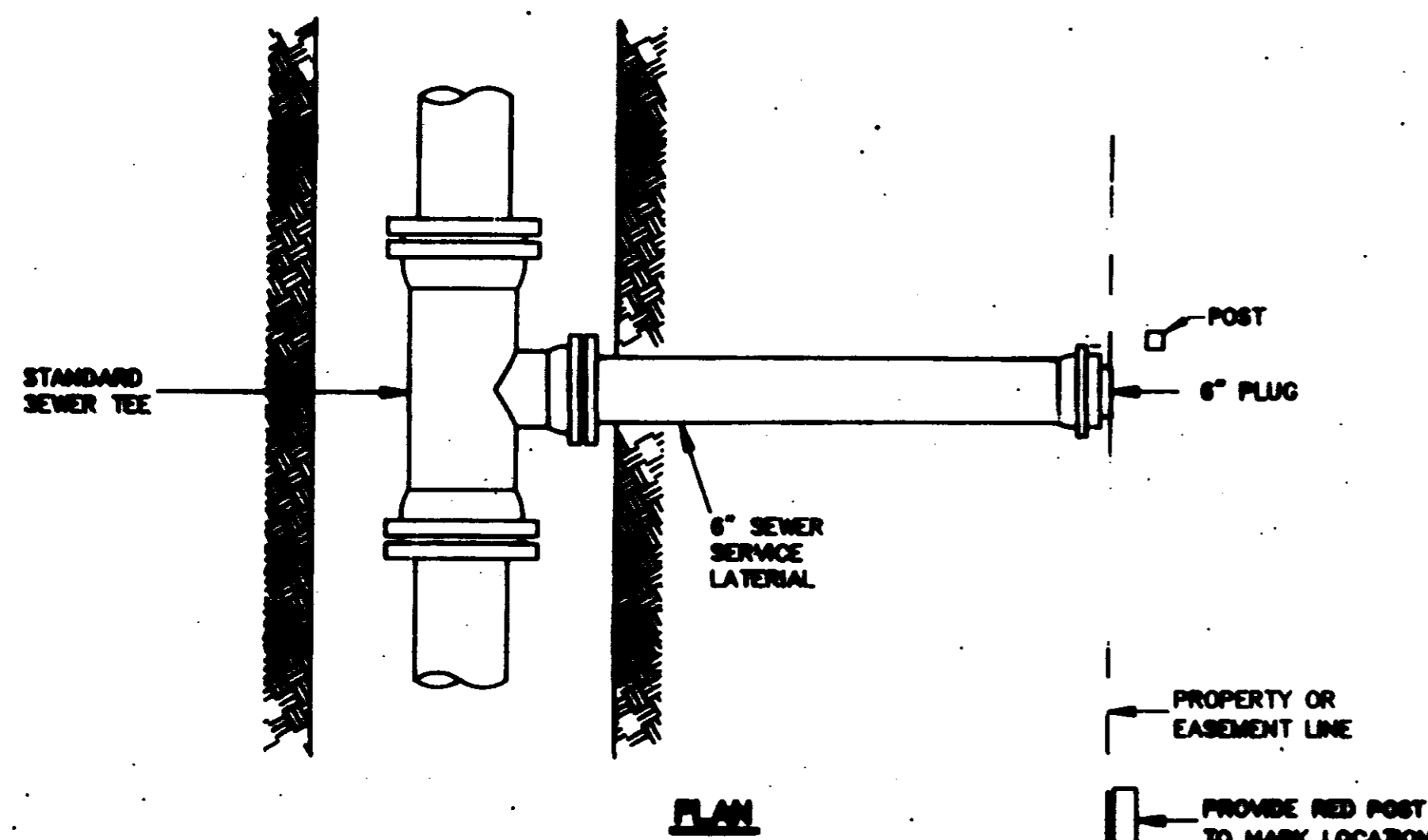
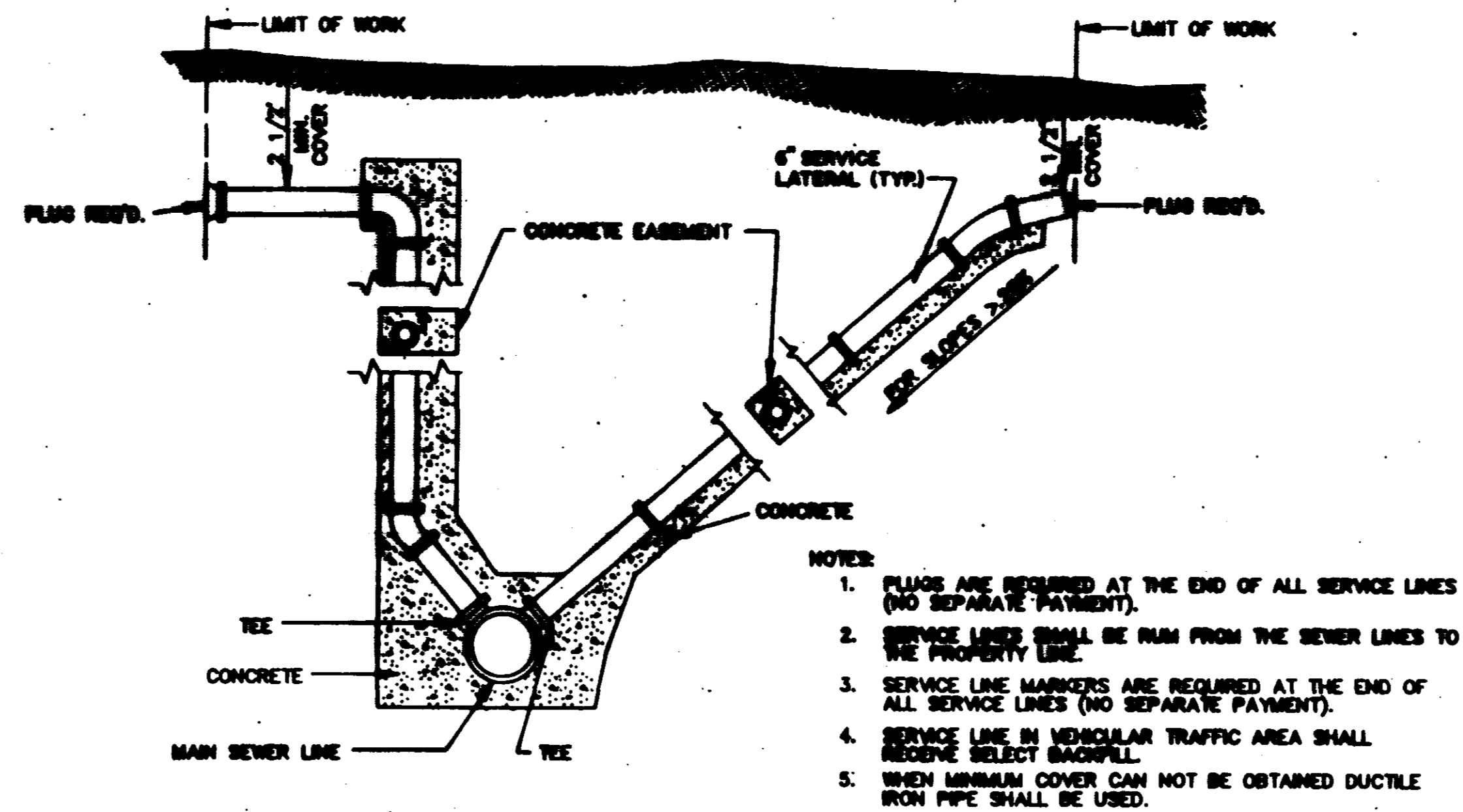


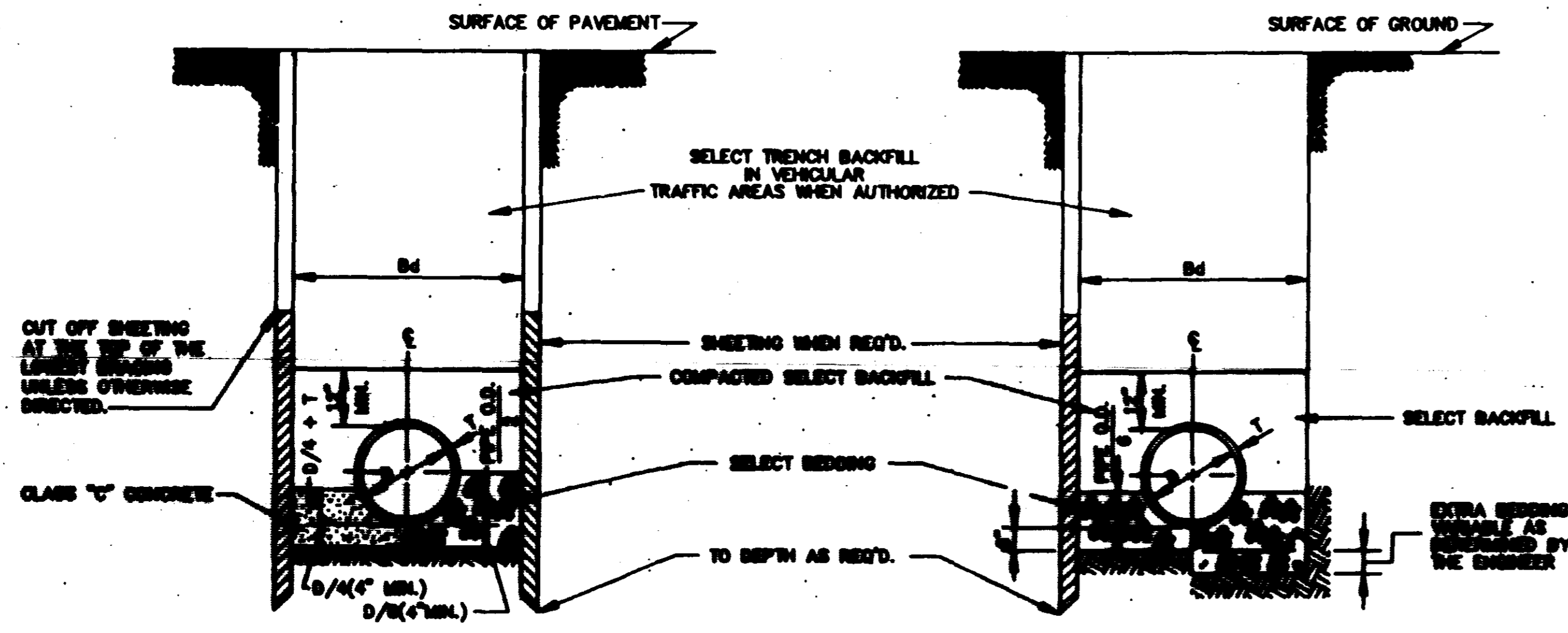
TABLE II
GOVERNING DIMENSIONS FOR MANHOLES

| PIPE SIZE | Δ ANGLE | BASE DIAMETER | R" |
|-------------|------------|---------------|--------|
| 6" THRU 12" | 0° TO 90° | 4" | 1'-0" |
| 15" | 0° TO 90° | 4" | 1'-10" |
| 18" | 0° TO 90° | 4" | 1'-10" |
| 18" | 0° TO 90° | 4" | 2'-3" |
| 21" | 0° TO 90° | 4" | 1'-10" |
| 21" | 0° TO 90° | 5" | 2'-4" |
| 24" | 0° TO 45° | 4" | 3'-0" |
| 24" | 45° TO 90° | 5" | 2'-3" |
| 30" | 0° TO 90° | 5" | 3'-0" |
| 30" | 0° TO 90° | 6" | 2'-8" |
| 36" | 0° TO 90° | 6" | 4'-0" |
| 36" | 0° TO 90° | 7" | 3'-11" |
| 42" | 0° TO 90° | 7" | 5'-3" |
| 42" | 0° TO 90° | 8" | 4'-7" |
| 48" | 0° TO 90° | 8" | 6'-0" |
| 48" | 0° TO 90° | 9" | 5'-3" |

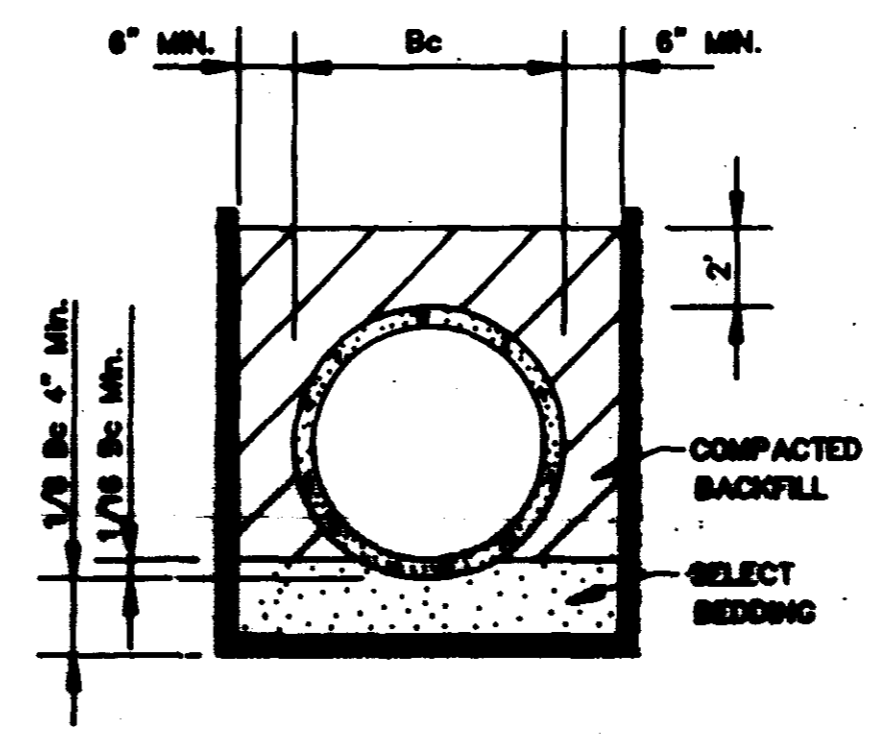
• SEE SECTIONAL PLAN, STANDARD MANHOLE
• PRECAST MANHOLE



CITY OF RIDGELAND, MS.
STANDARD DETAILS



TYPICAL TRENCH DETAILS (FORCE MAIN)



CLASS "A" BEDDING

MATERIAL SHALL BE CLASS "C" CONCRETE CRADLES. THE PIPE SHALL BE LAID ON CONCRETE SADDLES CONSTRUCTED TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE PIPE WHILE THE CRADLE IS BEING PLACED. PIPE SUPPORTS OF WOOD BLOCKS, LOOSE BRICK, ETC., WILL NOT BE PERMITTED. THE CRADLE SHALL BE POURED AFTER THE JOINTS HAVE BEEN MADE. CARE BEING TAKEN TO PREVENT MOVEMENT OF THE PIPE. WHENEVER THE CONTRACTOR PLACES CONCRETE OUTSIDE THE DIMENSIONS SHOWN ON THE DRAWINGS, THE COST OF SUCH CONCRETE WILL BE AT THE CONTRACTOR'S EXPENSE.

CLASS "B" BEDDING

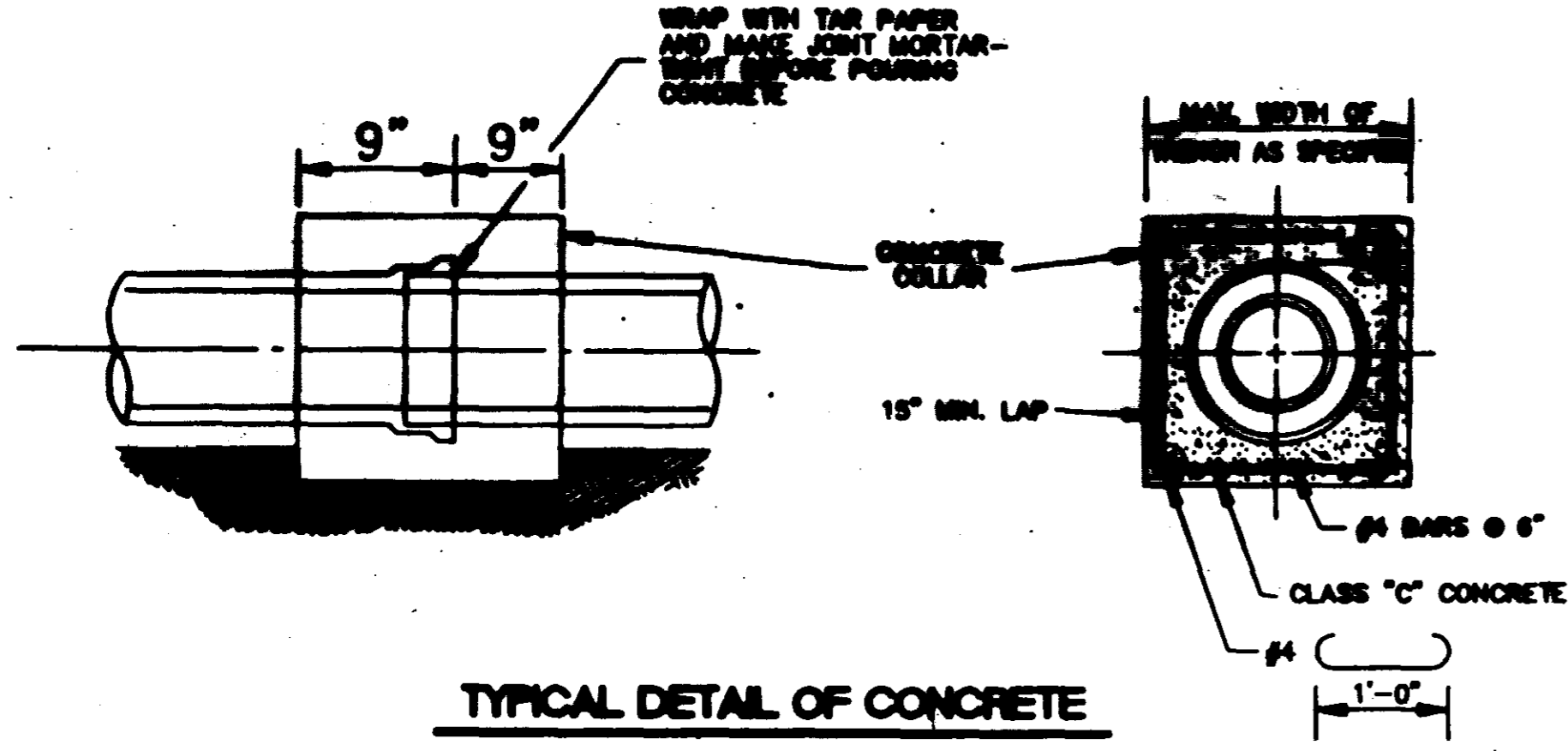
MATERIAL SHALL BE SELECT BEDDING AS SPECIFIED. MATERIAL SHALL BE CAREFULLY PLACED AND THOROUGHLY COMPACTED BY TAMPING.

CLASS "C" BEDDING (STANDARD BEDDING)

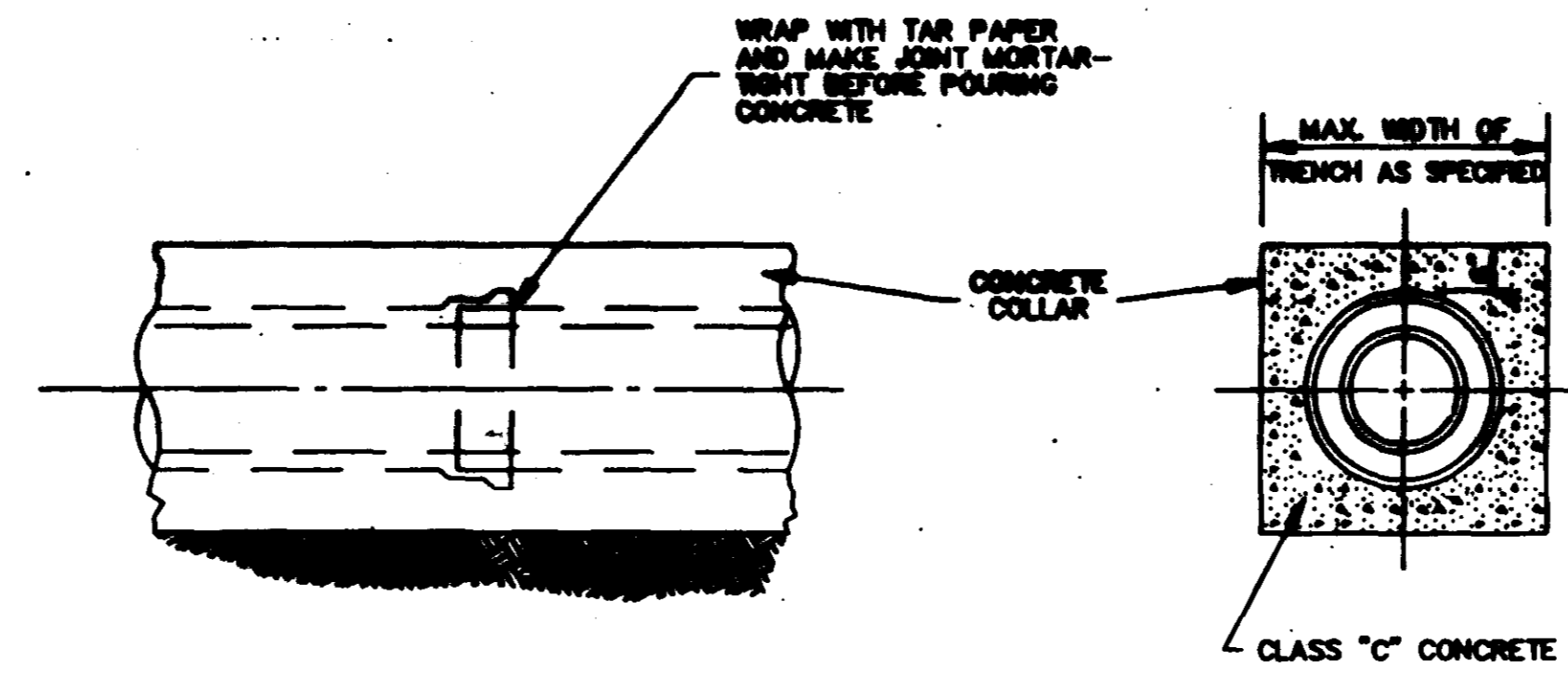
MATERIAL SHALL BE THE SAME AS FOR CLASS "B" BEDDING AND SHALL BE PLACED AS SHOWN BY STANDARD DETAILS FOR THE TYPE OF PIPE USED.

BEDDING FOR VITRIFIED CLAY, CONCRETE & ABS PIPE

TYPICAL TRENCH DETAILS
N.T.S.



TYPICAL DETAIL OF CONCRETE COLLAR
N.T.S.



TYPICAL DETAIL OF CONCRETE ENCASEMENT
N.T.S.

TABLE "A"
PIPE SIZE

| CARRIER PIPE (INCHES) | CASING PIPE | |
|-----------------------|---------------|---------------------------|
| | DIA. (INCHES) | STEEL PIPE WALL THICKNESS |
| 8 | 18 | 1/4" |
| 10 | 20 | 5/16" |
| 12 | 24 | 3/8" |
| 14 & 16 | 30 | 1/2" |
| 18 | 36 | 1/2" |
| 24 | 36 | 1/2" |
| 30 | 54 | 1/2" |
| 36 | 54 | 1/2" |
| 42 | 66 | SEE TABLE "B" |
| 48 | 72 | - |
| 54 | 78 | - |
| 60 | 84 | - |
| 66 | 90 | - |
| 72 | 108 | - |
| 84 | 120 | - |
| 96 | 144 | - |

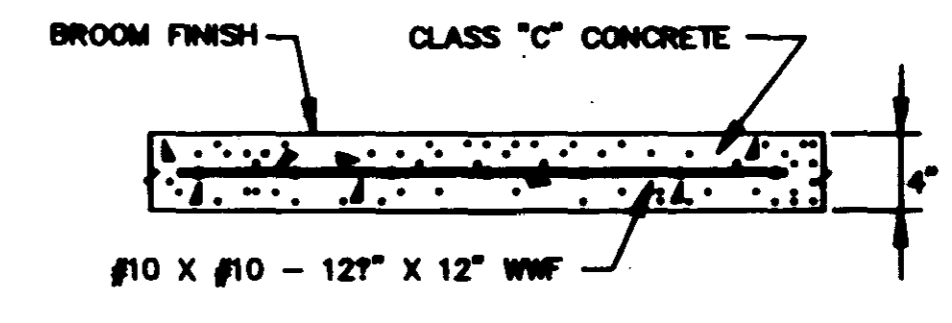
TABLE "B"
GAGES OF LINER PLATE FOR CONTINUOUS LOAD-CARRYING STRUCTURES

| NOMINAL DIA. (INCHES) | THICKNESS OF COVER (FEET) | | | | | | | | | | | | |
|-----------------------|---------------------------|-----|----|-------|-------|-------|----|-------|-------|-------|----|-------|----|
| | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 2 3/4 | 3 | 3 1/2 | |
| 48 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 10 |
| 54 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 10 | 8 | 8 | 8 |
| 60 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 8 | 7 | 7 | 7 |
| 66 | 12 | 12 | 12 | 12 | 12 | 12 | 10 | 8 | 8 | 8 | 8 | 8 | 8 |
| 72 | 12 | 12 | 12 | 12 | 12 | 10 | 8 | 7 | 8 | 8 | 8 | 8 | 8 |
| 78 | 12 | 12 | 12 | 12 | 10 | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 8 |
| 84 | 12 | 12 | 12 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 96 | 12 | 10 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 108 | 10 | 10 | 10 | 10 | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 120 | 10 | 10 | 10 | 8 | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 144 | 8 | 8 | 8 | 8 | 8 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |

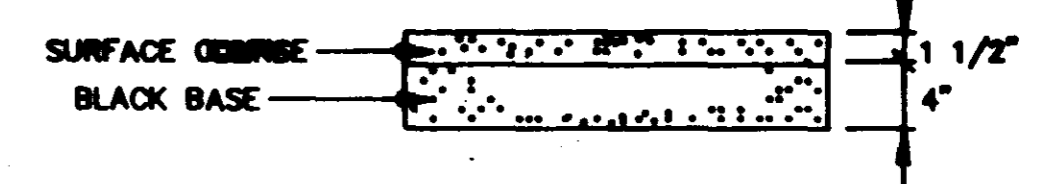
MIN. THICKNESS FOR LINER PLATE CASING IN RAILROAD CROSSING-10 GAGE

CASING PIPE

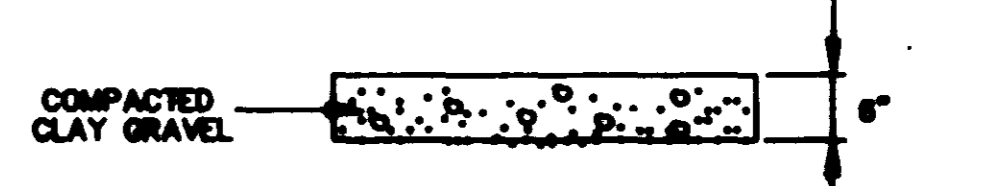
SIZE AND THICKNESS OF PIPE FOR RAILROAD & HIGHWAY CROSSING



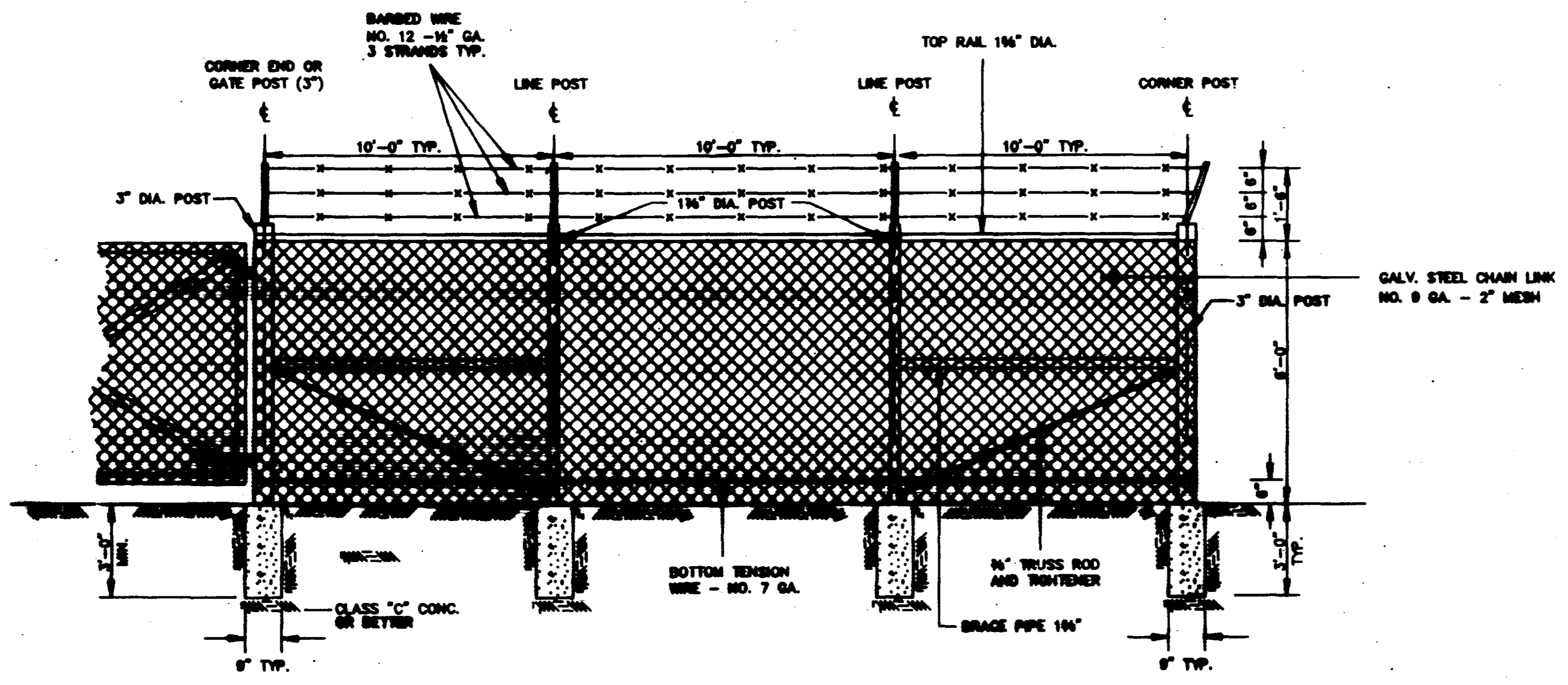
TYPICAL CONC. DRIVEWAY AND SIDEWALK REPAIR



TYPICAL ASPHALT DRIVEWAY REPAIR



TYPICAL GRAVEL DRIVEWAY REPAIR



CHAIN LINK FENCE DETAIL
N.T.S.

CITY OF RIDGELAND, MS.
STANDARD DETAILS