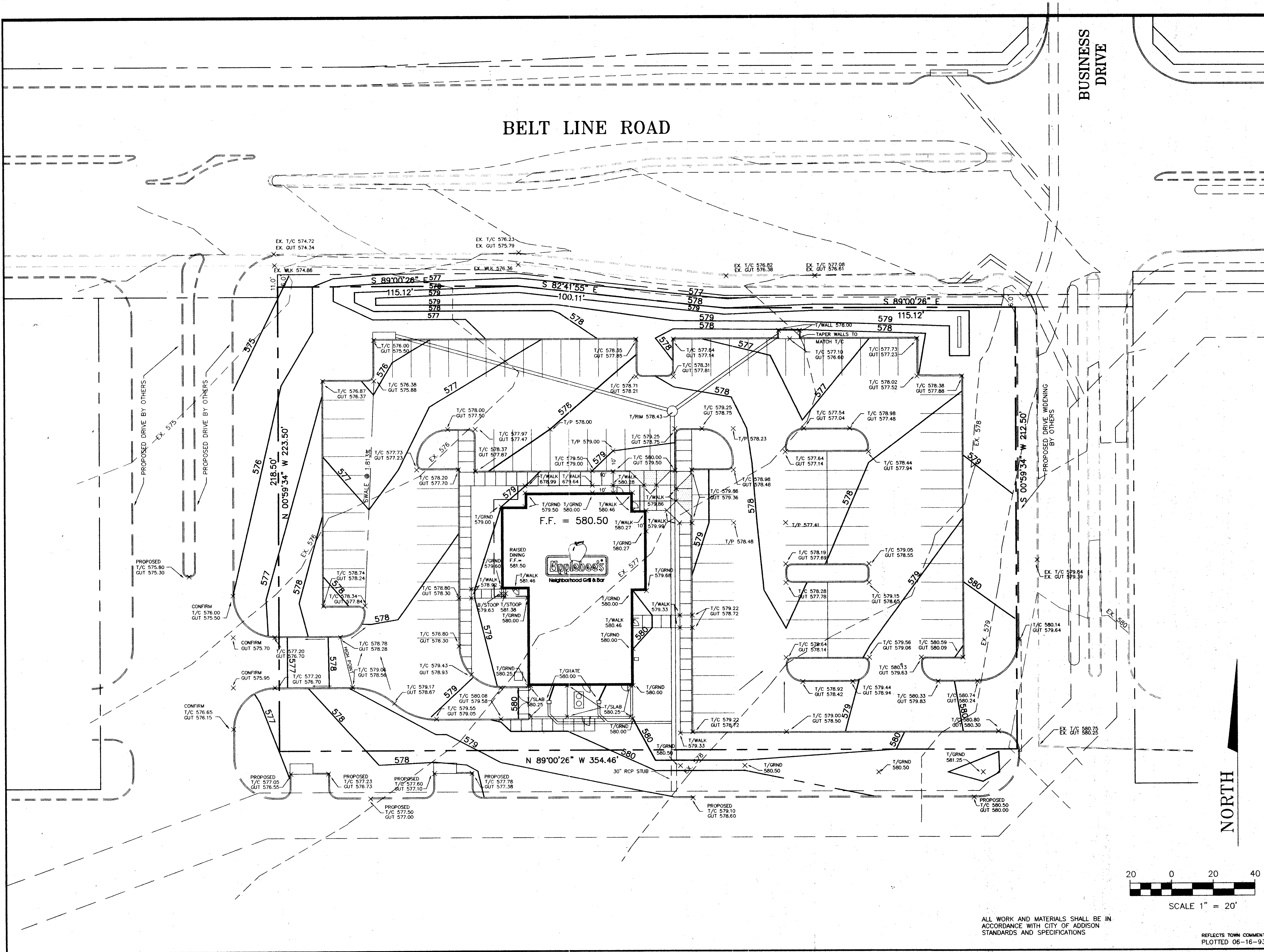






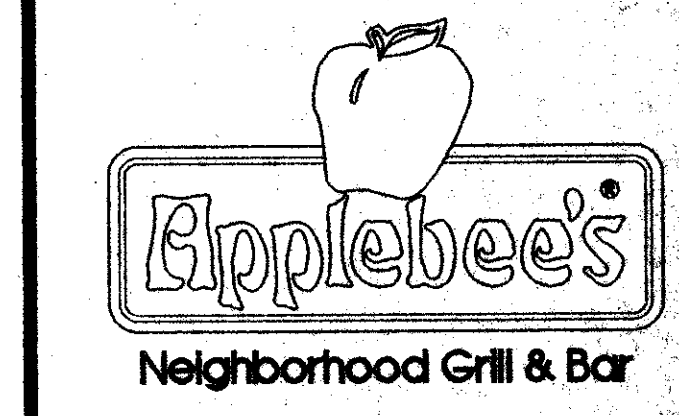
BUSINESS DRIVE

BELT LINE ROAD

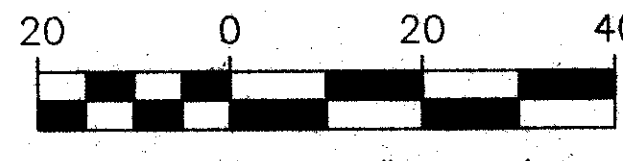


BM - SQUARE CUT ON STORM SEWER INLET, SOUTH SIDE BELT LINE ROAD & APPROX. 140' FROM CENTERLINE COMMERCIAL DRIVE. ELEV. 580.56

**MP** MICHAEL PEEPLES  
 Engineers and Planners  
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 4660 Sunbelt Dallas, Texas 75248

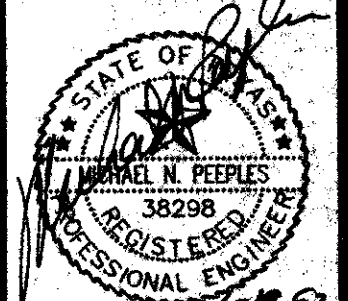


GRADING AND DRAINAGE PLAN



ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF ADDISON STANDARDS AND SPECIFICATIONS

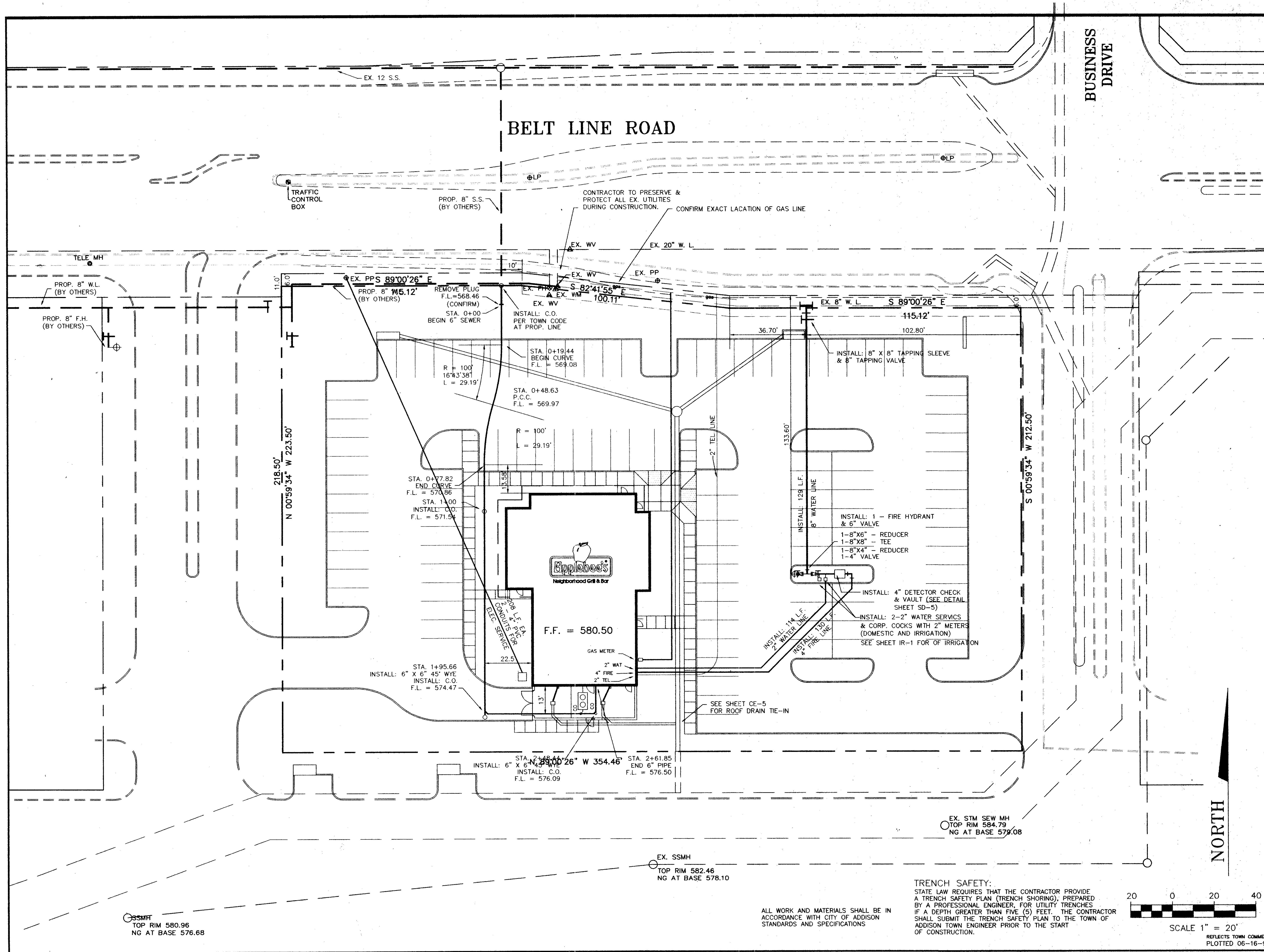
REFLECTS TOWN COMMENTS PLOTTED 06-16-93



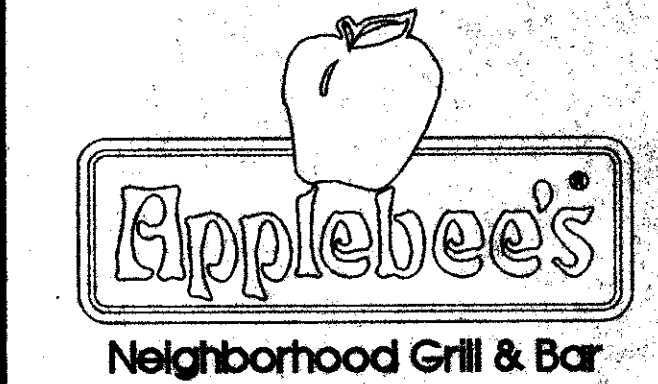
**CE-2**  
 ADDISON, TEXAS

NOTES

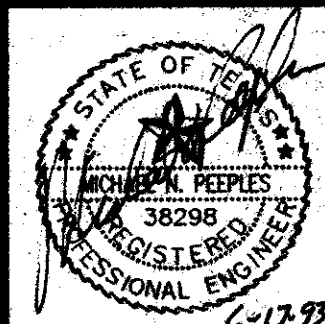
1. SEE SHEETS SD-1 THROUGH SD-6 FOR WATER, SEWER, AND DRAINAGE DETAILS.
2. SEE SHEET SD-5 FOR DETECTOR CHECK CHECK DETAILS.
3. ALL UTILITIES SHALL BE ADJUSTED TO FINAL GRADES PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.



**MP** MICHAEL PEEPLES  
 Engineers and Planners  
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 4660 Sunbelt Dallas, Texas 75248

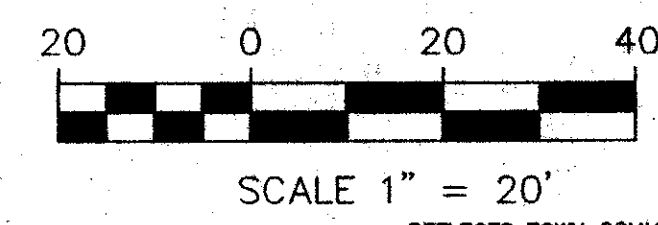


UTILITIES PLAN



**CE-3**  
 ADDISON, TEXAS

**TRENCH SAFETY:**  
 STATE LAW REQUIRES THAT THE CONTRACTOR PROVIDE A TRENCH SAFETY PLAN (TRENCH SHORING), PREPARED BY A PROFESSIONAL ENGINEER, FOR UTILITY TRENCHES IF A DEPTH GREATER THAN FIVE (5) FEET. THE CONTRACTOR SHALL SUBMIT THE TRENCH SAFETY PLAN TO THE TOWN OF ADDISON TOWN ENGINEER PRIOR TO THE START OF CONSTRUCTION.



ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF ADDISON STANDARDS AND SPECIFICATIONS

SSMH  
 TOP RIM 580.96  
 NG AT BASE 576.68

EX. SSMH  
 TOP RIM 582.46  
 NG AT BASE 578.10

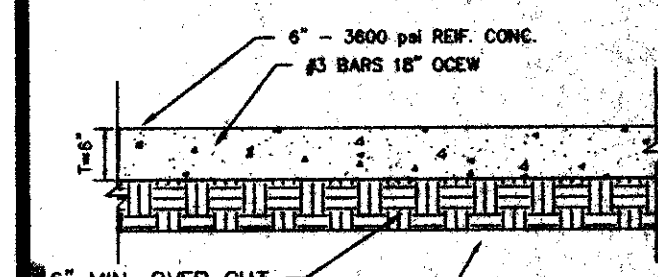
NORTH



NOTES

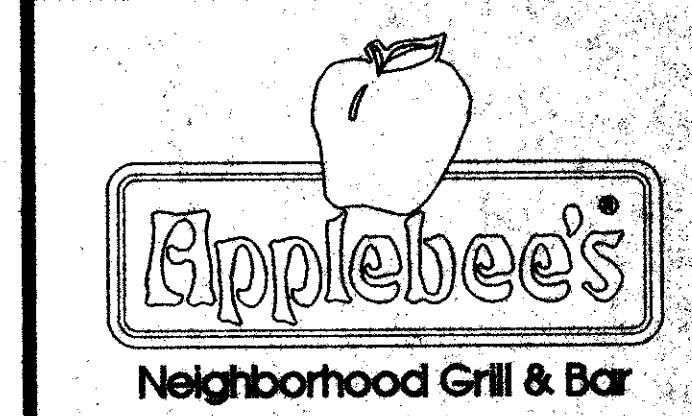
GENERAL NOTES:

1. THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 3600 PSI AND SHALL BE 5 SACK.
2. BARS SHALL CONFORM TO A.S.T.M. DESIGNATION A-615 WITH A MAXIMUM SPACING OF 18" OCEW. SIZES AND SPACING SHALL BE INDICATED HEREIN EXCEPT SUCH ALTERNATES THAT MAY BE ALLOWED IN THE SPECIFICATIONS.
3. ALL CURB AND GUTTER SHALL BE INTERGRAL WITH PAVEMENT AND SHALL BE THE SAME COMPRESSIVE STRENGTH AS PAVEMENT.
4. BAR LAPS SHALL BE 30 DIAMETERS.
5. REFER TO THE GEOTECHNICAL INVESTIGATION DESCRIBED IN THE GEOTECHNICAL REPORT PREPARED BY REED ENGINEERING GROUP AND IN THE APPENDIX OF THE PROJECT SPECIFICATIONS FOR SUBGRADE PREPARATION.
6. IN CUT AREAS THE TOP 6" OF SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 95% OF STD. PROCTER (ASTM D-698). FILL SHALL BE PLACED IN 4" LIFT LIFTS AND COMPACTED TO 95% STD. PROCTER (ASTM D-698) PRIOR TO FILL OPERATION SCARIFY AND RECOMPACT TOP 6" INCHES OF SOIL.
7. ALL CONCRETE SHALL BE CURED BY THE USE OF MEMBRANE CURING COMPOUND CONFORMING TO THE REQUIREMENTS OF ASTM C-309 FOR TYPE II, WHITE PIGMENTED.
8. EXPANSION JOINT MATERIAL SHALL BE REDWOOD OR PREWOLDED ASPHALT AS SHOWN DRAWINGS AND JOINT SEALER SHALL BE HOT POURED RUBBER.
9. PORTLAND CEMENT CONCRETE AND RELATED MATERIALS SHALL CONFORM TO ITEM 2.2 OF THE COG SPECIFICATIONS UNLESS OTHERWISE NOTED.
10. PORTLAND CEMENT CONCRETE CONSTRUCTION SHALL CONFORM TO COG SPECIFICATIONS UNLESS OTHERWISE NOTED.
11. DUST CONTROL: DURING CONSTRUCTION CONTRACTOR SHALL MAINTAIN SITE IN SUCH A MANNER THAT DUST SHALL BE PREVENTED FROM BLOWING ONTO ADJACENT PROPERTIES.
12. EROSION CONTROL: DURING CONSTRUCTION, CONTRACTOR SHALL MAINTAIN SITE IN SUCH A MANNER THAT EROSION DOES NOT OCCUR CAUSING SILT TO FLOW ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL SUBMIT BY WRITING PROPOSED EROSION CONTROL MEASURES.
13. STORM WATERS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF STORM WATER FLOWING FROM THE SITE DURING CONSTRUCTION BEING DIVERTED ONTO THE ADJACENT PROPERTIES IN A CONCENTRATED MANNER. IF IT IS NECESSARY DURING CONSTRUCTION TO INTERRUPT THE NATURAL DRAINAGE OF THE SURFACE, OR THE FLOW OF ARTIFICIAL DRAINS, THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE FACILITIES THAT SHALL PREVENT DAMAGE TO PUBLIC OR PRIVATE FACILITIES; AND SHALL RESTORE THE ORIGINAL DRAINS AS SOON AS THE WORK IS COMPLETED.
14. ALL DISTURBED AREAS SHALL BE HYDROMULCHED AND MAINTAINED UNTIL 80% GROWTH UNLESS OTHERWISE INDICATED ON THE PLANS.
15. ALL AVAILABLE DATA WAS USED TO LOCATE EXISTING UTILITIES AS SHOWN ON THESE PLANS. HOWEVER, THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH ALIGNMENT, AND SIZE OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.



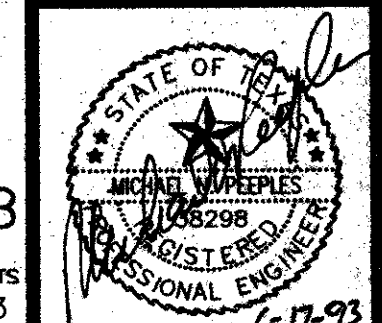
CONCRETE PAVEMENT DESIGN  
8/CE-4

**MP** MICHAEL PEEPLES  
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4660 Sunbelt Dallas, Texas 75248



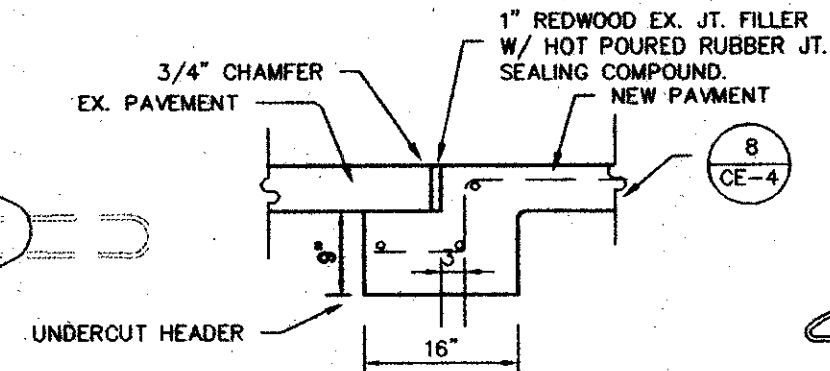
PAVING PLAN

CE-4  
ADDISON, TEXAS



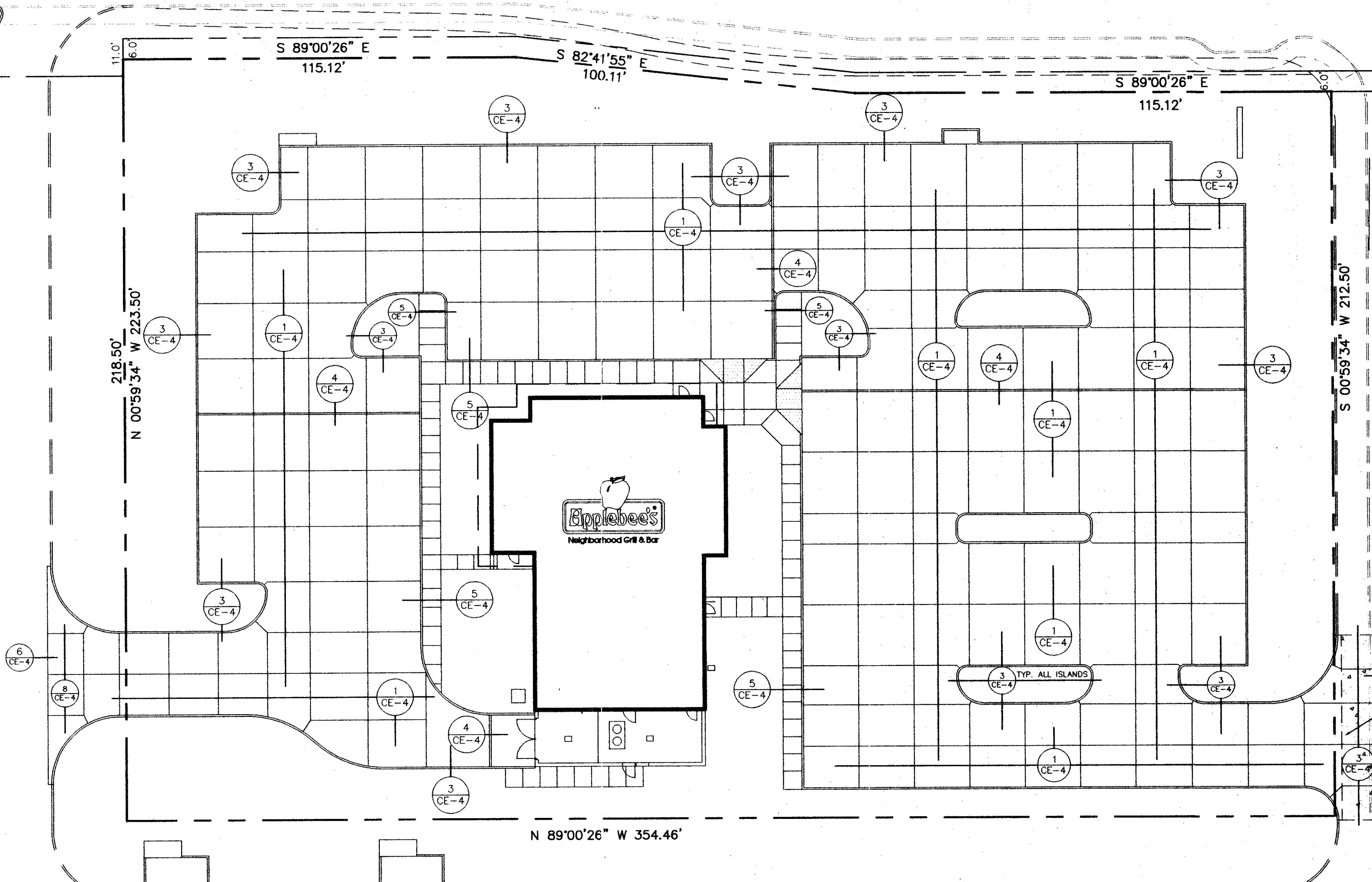
BUSINESS DRIVE

BELT LINE ROAD

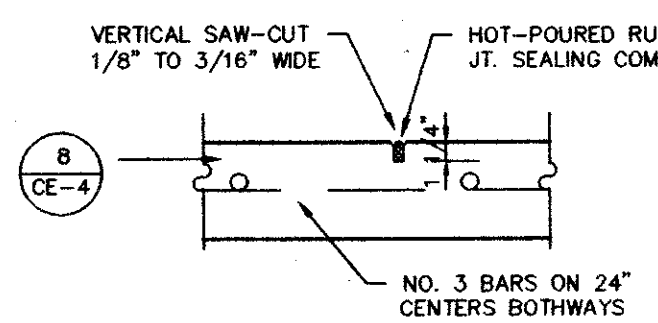


PAVEMENT BARS TO BE BENT DOWN INTO HEADER AND PAVEMENT TO BE MONOLITHIC.

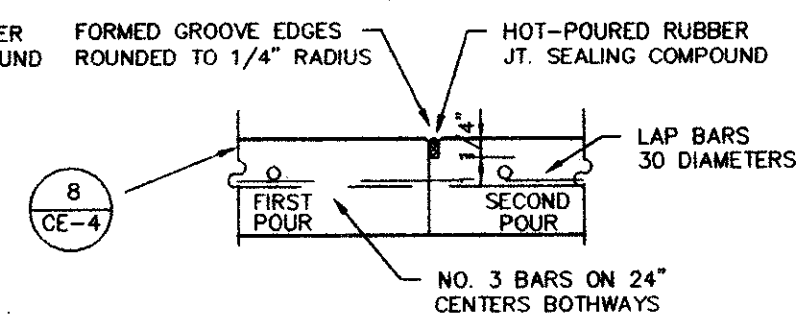
HEADER DETAIL  
6/CE-4



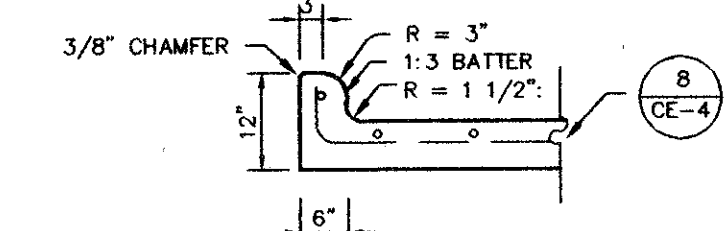
SAW CUT FUTURE PAVMT. IF EXISTING ACCESS DRIVE HAS BEEN WIDENED BY OTHERS AT TIME OF CONSTRUCTION OTHERWISE EXTEND DRIVE PER SHADED AREA



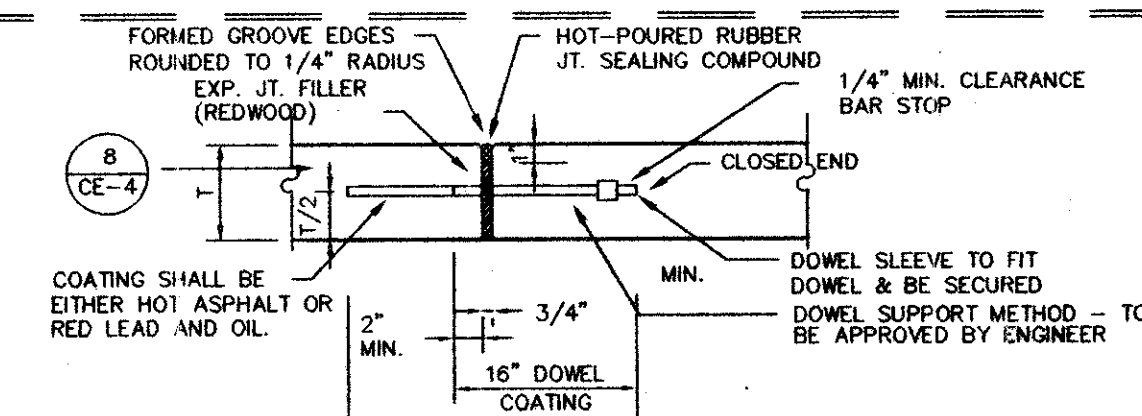
1/CE-4  
SAWED DUMMY JOINT DETAIL



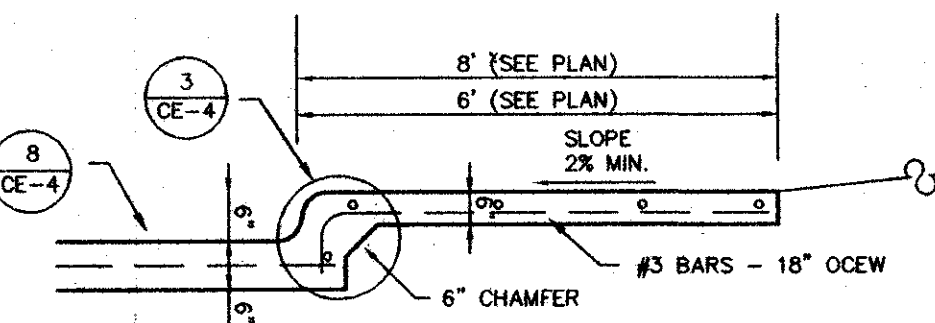
2/CE-4  
CONSTRUCTION JOINT DETAIL



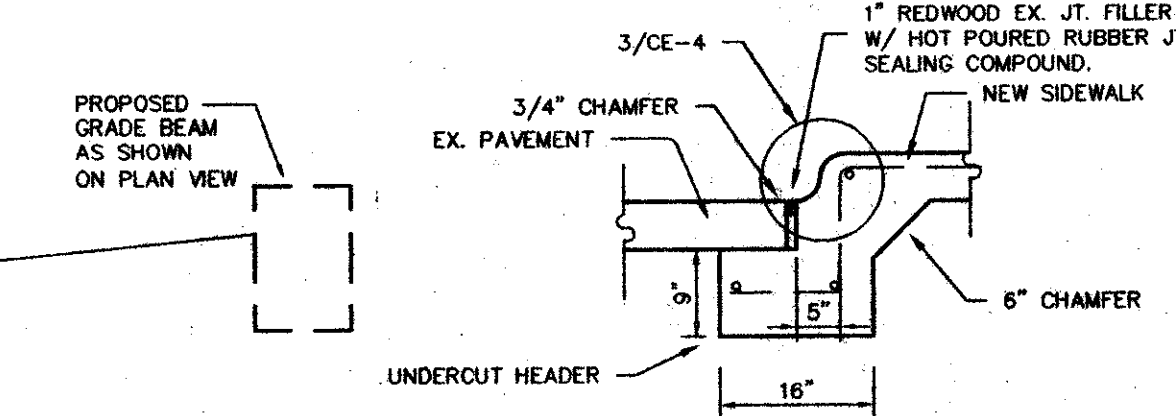
3/CE-4  
INTERGRAL CURB & GUTTER DETAILS



4/CE-4  
TRANSVERSE EXPANSION JOINT DETAIL



5/CE-4  
INTERGRAL CURB WITH SIDEWALK

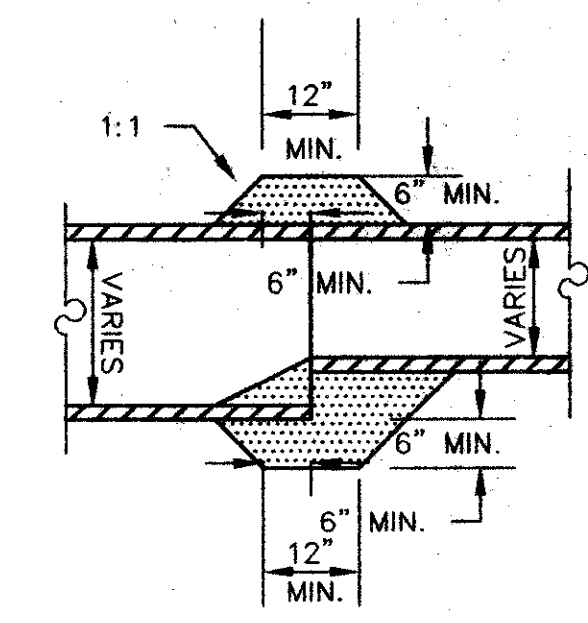
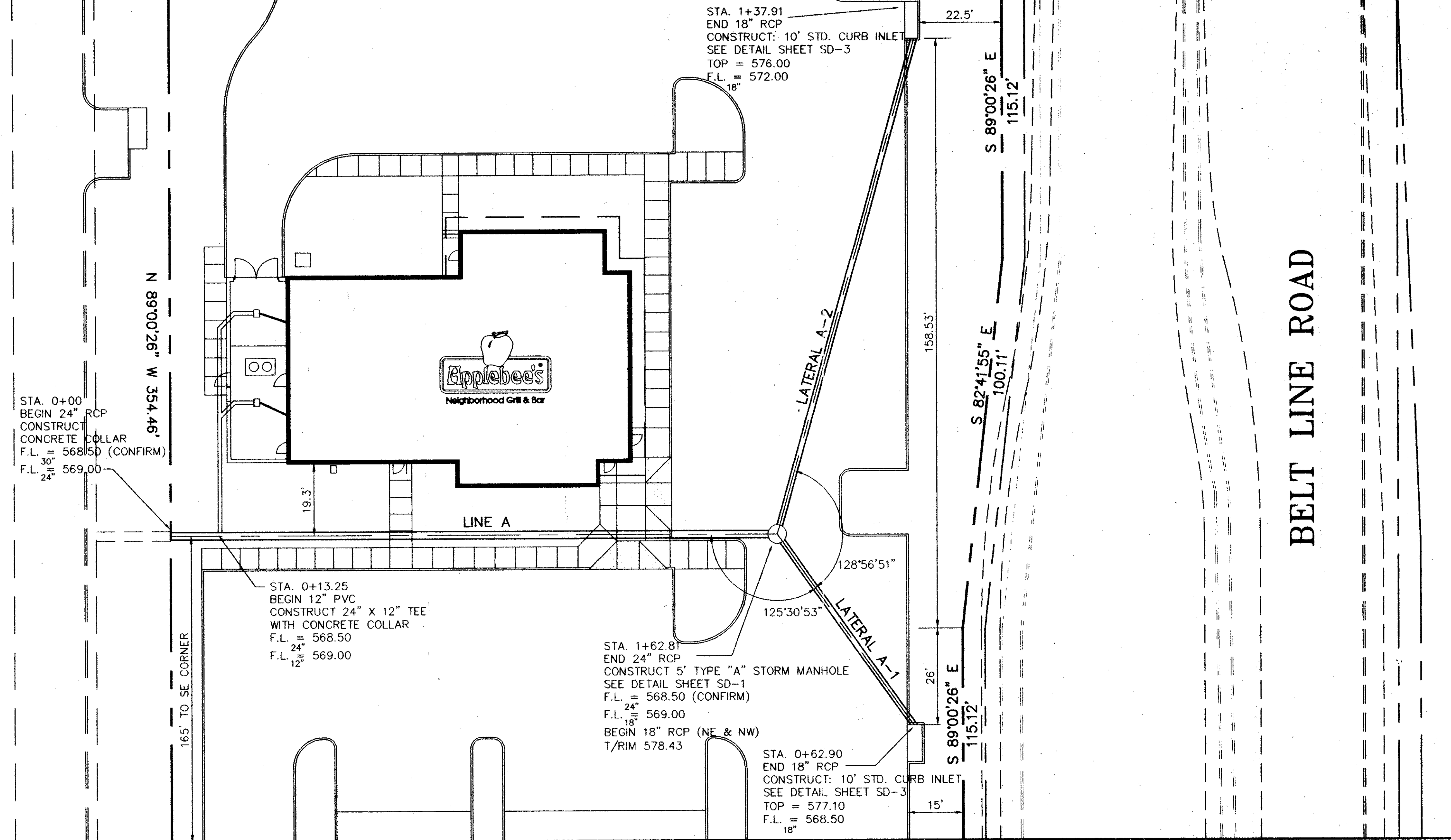


PAVEMENT BARS TO BE BENT DOWN INTO HEADER AND PAVEMENT TO BE MONOLITHIC.

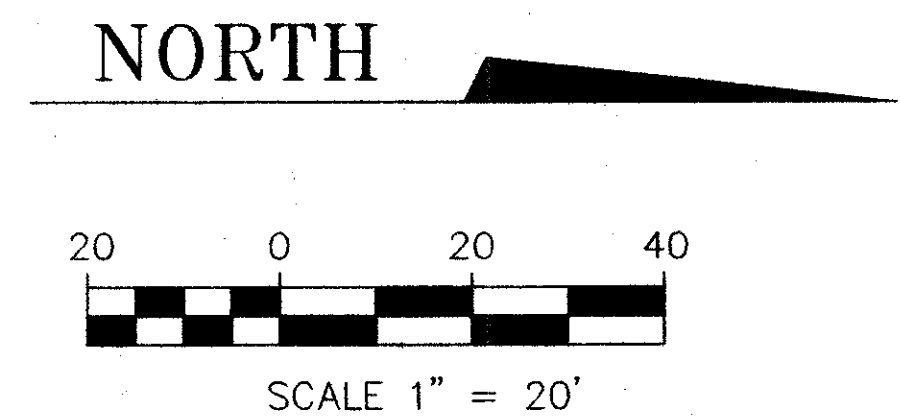
7/CE-4  
HEADER DETAIL WITH CURB

REFLECTS TOWN COMMENTS PLOTTED 06-16-93



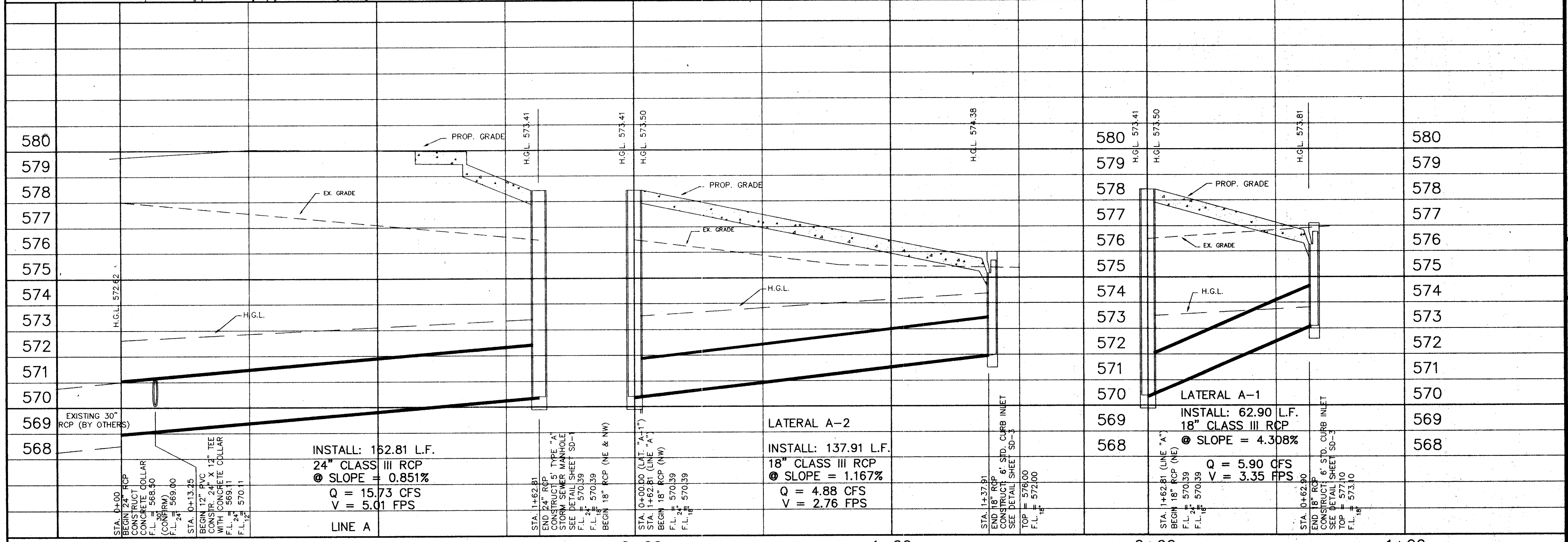


CONCRETE COLLAR  
NTS



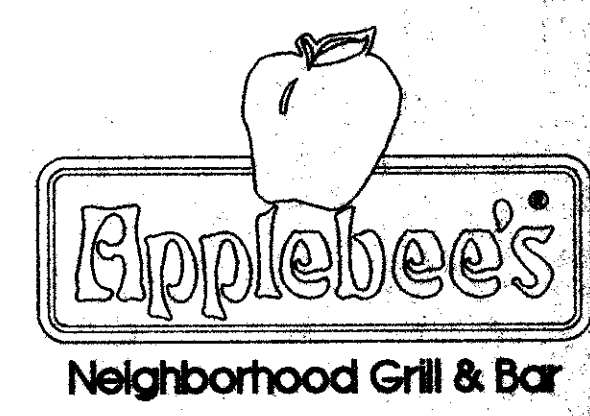
**TRENCH SAFETY:**  
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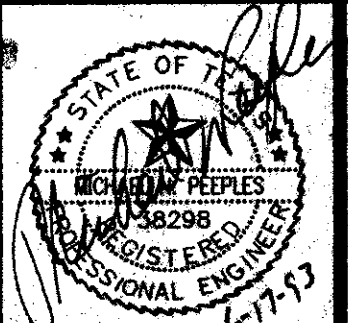


BM - SQUARE CUT ON STORM SEWER INLET, SOUTH SIDE BELT LINE ROAD & APPROX. 140' FROM CENTERLINE COMMERCIAL DRIVE. ELEV. 580.56

**MP** MICHAEL PEEPLES  
Engineers and Planners  
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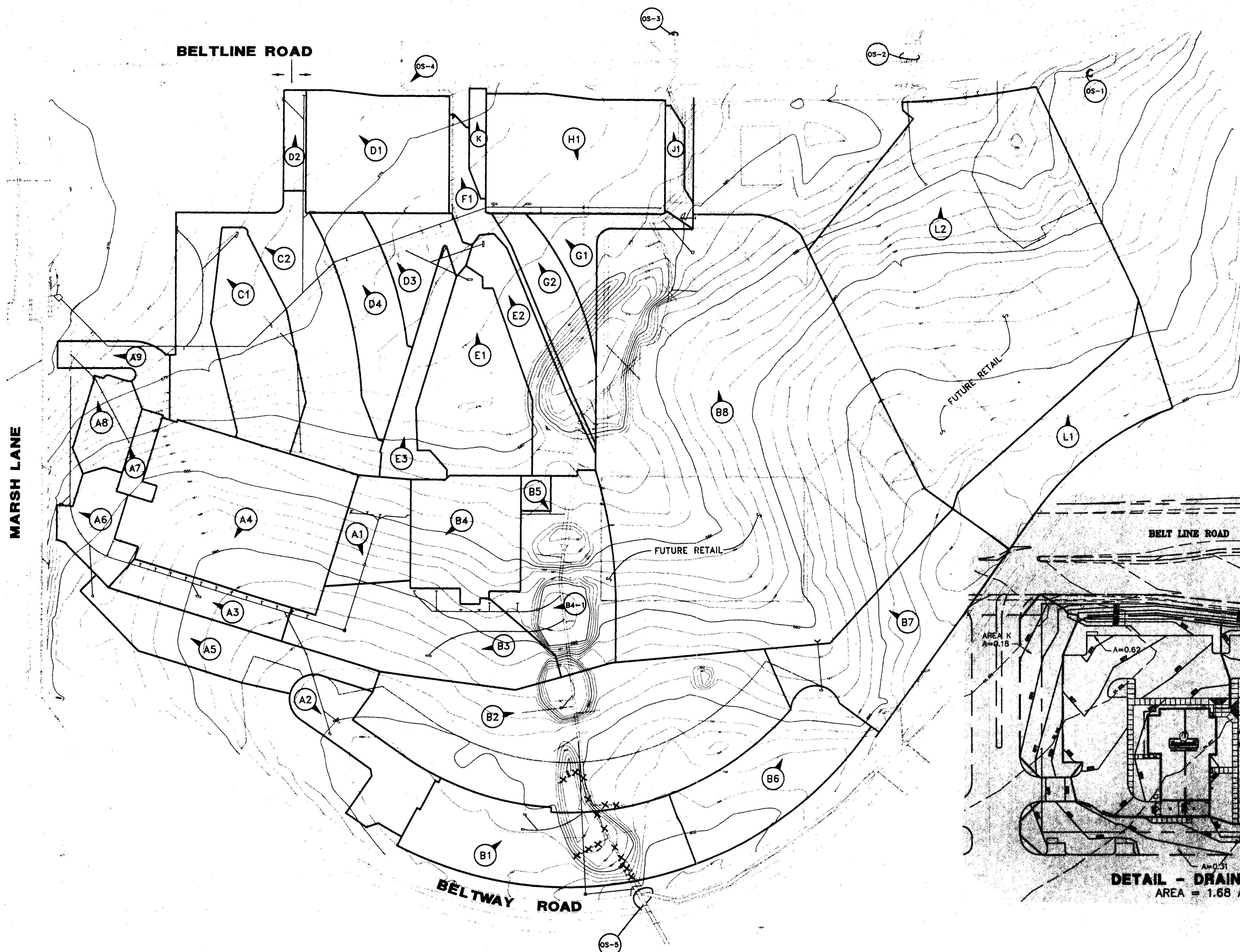


STORM SEWER  
PLAN/PROFILE



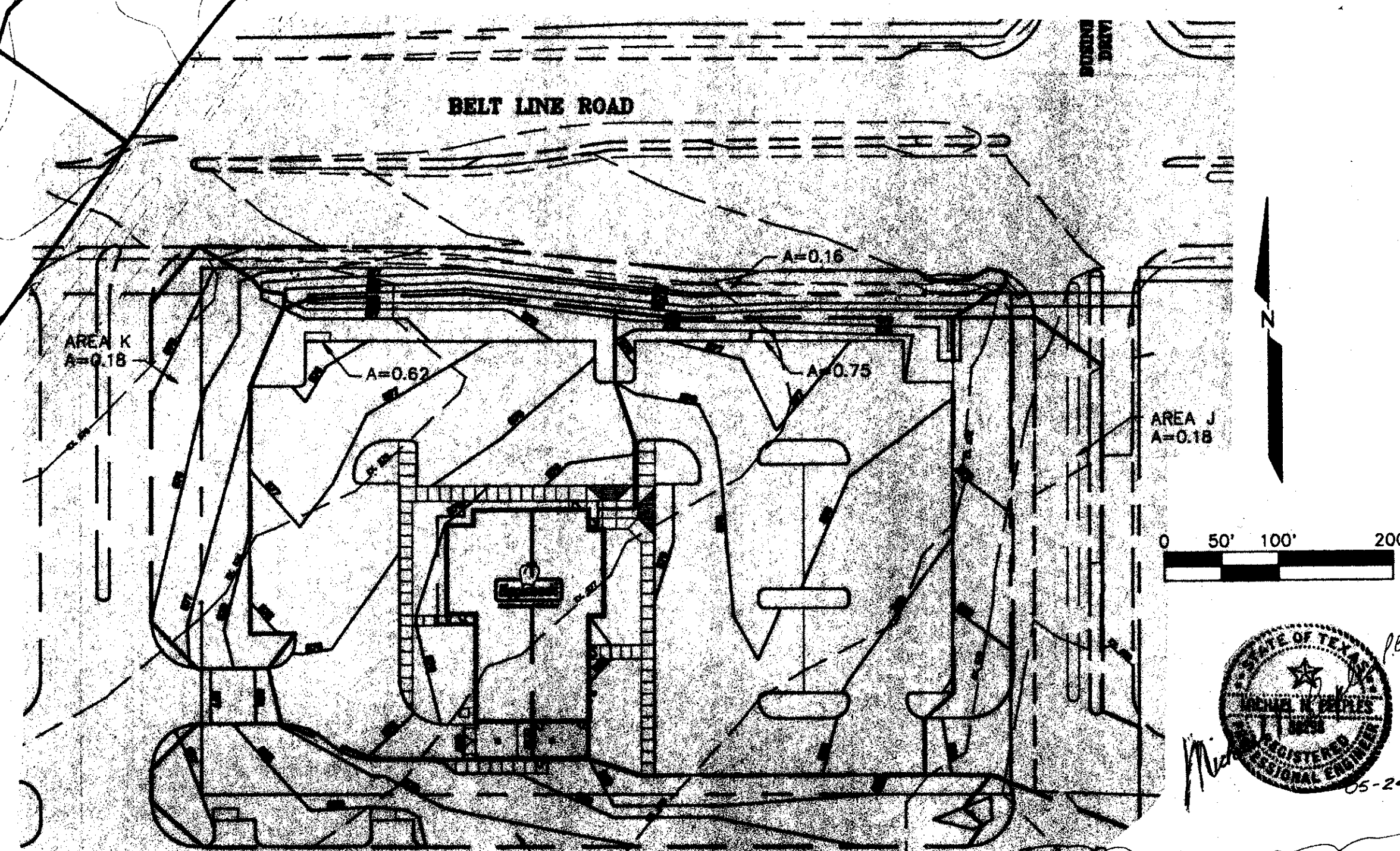
CE-5  
ADDISON, TEXAS





**DRAINAGE SUMMARY**

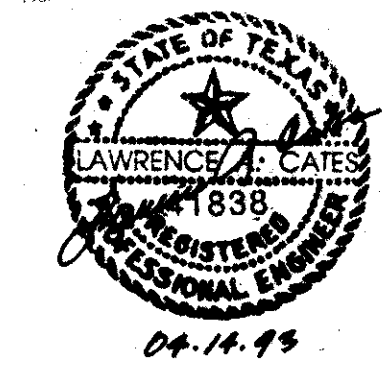
AREA	ACRES	C	1100	Q100	REMARKS
A1	0.88	0.9	8.74	5.35	INC. ROOF DRAIN-BLDG. A
A2	0.87	0.5	8.74	3.80	FROM RES. SUBD.
A3	0.56	0.9	8.74	4.40	TO 10' C.I.
A4	2.69	0.9	8.74	21.13	KMART ROOF DRAINAGE
A5	1.18	0.4	7.70	3.60	PARK AREA
A6	0.49	0.9	8.74	3.85	TO 10' C.I.
A7	0.15	0.9	8.74	1.61	GARDEN SHOP DRAINAGE
A8	0.44	0.9	8.74	3.46	TO 8' C.I.
A9	0.36	0.9	8.74	2.83	TO MARSH LANE
B1	1.96	0.5	8.74	8.56	FROM SUBD. TO 54"
B2	4.45	0.45	7.70	15.4	PARK AREA
B3	1.46	0.9	8.74	11.48	TO 14' C.I.
B4	1.24	0.9	8.74	9.75	WINN-DIXIE ROOF DRAIN
B4-1	1.84	0.9	8.74	14.75	8" GRATE INLET
B5	0.10	0.9	8.74	0.79	BLDG. B ROOF DRAIN
B6	1.44	0.5	8.74	6.29	FROM SUBD.
B7	1.93	0.4	7.70	5.94	FUTURE PARK
B8	11.51	0.9	8.74	90.54	FUTURE PH. II (58.5 OF PH. 1)
C1	1.22	0.9	8.74	9.60	TO 10' C.I.
C2	2.64	0.9	8.74	20.80	TO 14' C.I.
D1	1.66	0.9	8.74	13.06	FUTURE LOT 1, BLK D
D2	0.21	0.9	8.74	1.57	TO 8' C.I.
D3	0.61	0.9	8.74	4.80	TO 10' C.I.
D4	0.93	0.9	8.74	7.31	TO 10' C.I.
E1	1.58	0.9	8.74	12.43	TO 10' C.I.
E2	0.87	0.9	8.74	6.84	TO 10' C.I.
E3	0.80	0.9	8.74	6.72	TO 10' C.I.
F1	0.51	0.9	8.74	4.01	TO 8' C.I.
G1	0.40	0.9	8.74	3.15	TO 8' C.I.
G2	0.75	0.9	8.74	5.90	TO 8' C.I.
H1	1.68	0.9	8.74	13.21	FUTURE LOT 2 APPLEBEE'S INTERNATIONAL
J1	0.33	0.70	8.74	1.42	TO EXIST. INLET
K	0.18	0.75	8.74	0.94	TO BELT LINE ROAD
L1	1.47	0.45	7.70	5.09	FUTURE PARK
L2	7.85	0.9	8.74	61.75	FUTURE RETAIL
OS-1	175.00	0.80	6.8	714	FROM 8" RCP
OS-2	414.00	0.80	4.8	1980	FROM AREA N. OF BELT LINE
OS-3	40.98	0.90	7.7	284	54" (BUSINESS DR.)
OS-4	0.14	0.90	8.7	9	WINN-DIXIE ROOF DRAIN
OS-5	62.00	0.52	7.6	245	4" GRATE INLET



**DETAIL - DRAINAGE AREA H1**  
AREA = 1.68 ACRES

APPLEBEE'S INTL. 5-24-93  
REV. 4/30/96 PER CITY COMMENTS

DRAINAGE AREA MAP						
KMART No. 4885						
ADDISON TOWN CENTER						
TOWN OF ADDISON, TEXAS						
LAWRENCE A. CATES & ASSOC.					CONSULTING ENGINEERS DALLAS, TEXAS	
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	4-1-93	1"=100'	D.P.	91012 DRNGAREA	CE-6





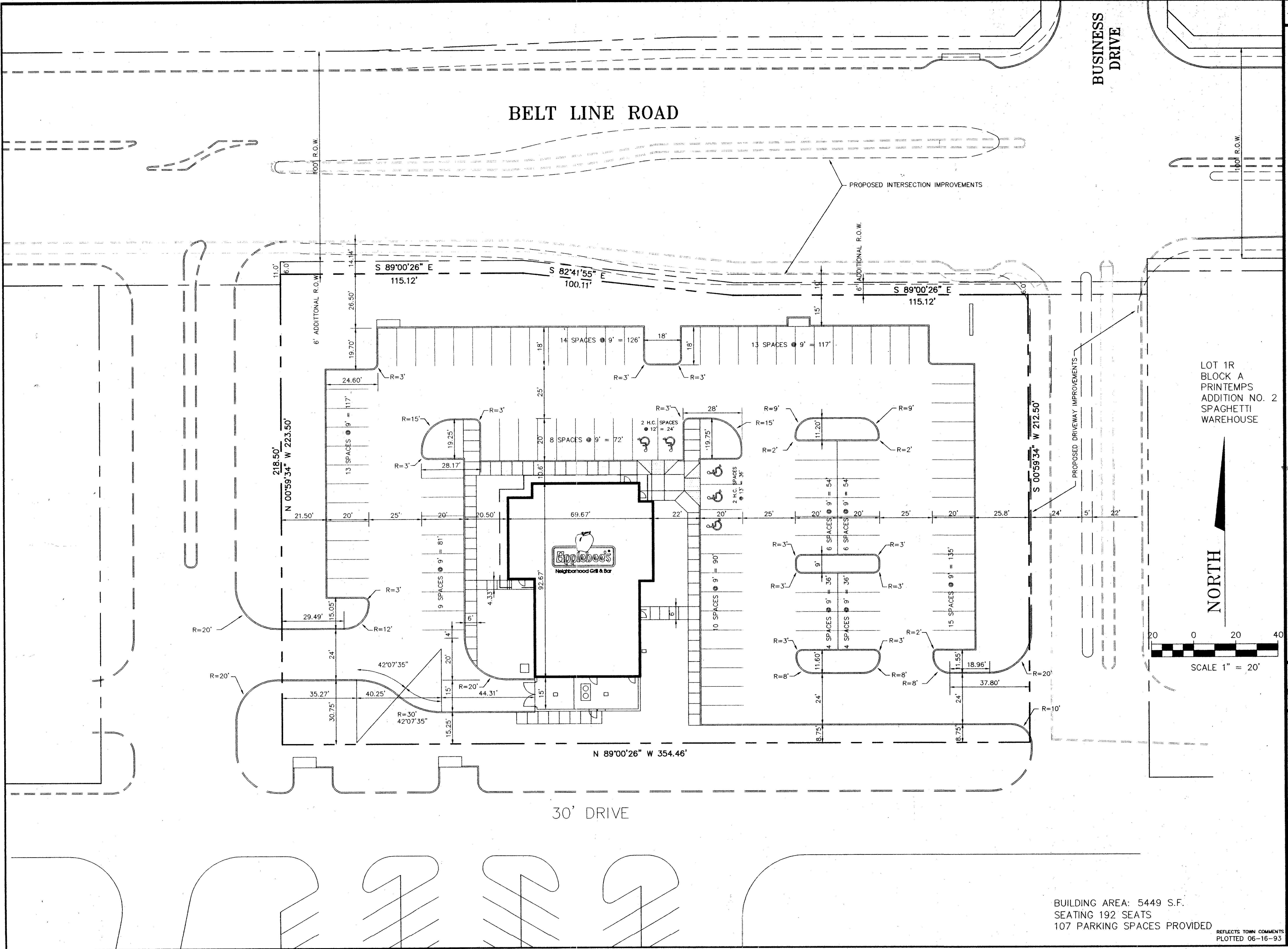
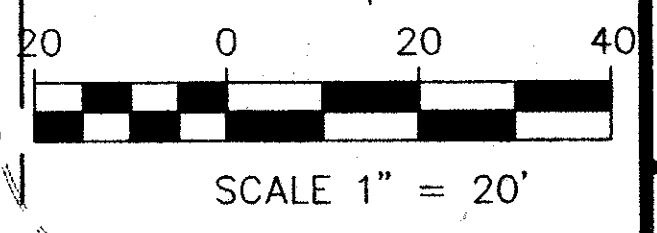
BUSINESS DRIVE

BELT LINE ROAD

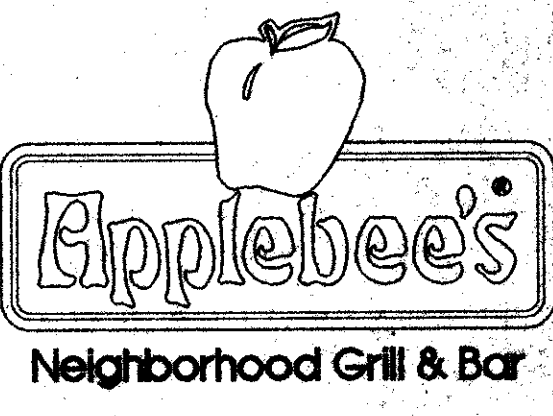
PROPOSED INTERSECTION IMPROVEMENTS

LOT 1R  
BLOCK A  
PRINTEMPS  
ADDITION NO. 2  
SPAGHETTI  
WAREHOUSE

NORTH



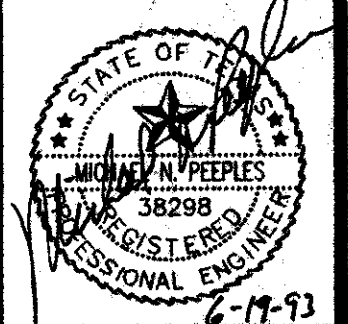
**MP** MICHAEL PEEPLES  
Engineers and Planners  
(214) 248-1988  
4660 Sunbelt Dallas, Texas 75248



SITE PLAN

BUILDING AREA: 5449 S.F.  
SEATING 192 SEATS  
107 PARKING SPACES PROVIDED

REFLECTS TOWN COMMENTS  
PLOTTED 06-16-93



CE-1  
ADDISON, TEXAS



100000

- 1. Use 2" HDPE and 4" PVC for 2" and 4" main lines.
- 2. Use 1" HDPE for 1" main lines.
- 3. Use 1/2" HDPE for 1/2" main lines.
- 4. Use 1/4" HDPE for 1/4" main lines.
- 5. Use 1/8" HDPE for 1/8" main lines.
- 6. Use 1/16" HDPE for 1/16" main lines.
- 7. Use 1/32" HDPE for 1/32" main lines.
- 8. Use 1/64" HDPE for 1/64" main lines.
- 9. Use 1/128" HDPE for 1/128" main lines.
- 10. Use 1/256" HDPE for 1/256" main lines.
- 11. Use 1/512" HDPE for 1/512" main lines.
- 12. Use 1/1024" HDPE for 1/1024" main lines.
- 13. Use 1/2048" HDPE for 1/2048" main lines.
- 14. Use 1/4096" HDPE for 1/4096" main lines.
- 15. Use 1/8192" HDPE for 1/8192" main lines.
- 16. Use 1/16384" HDPE for 1/16384" main lines.
- 17. Use 1/32768" HDPE for 1/32768" main lines.
- 18. Use 1/65536" HDPE for 1/65536" main lines.
- 19. Use 1/131072" HDPE for 1/131072" main lines.
- 20. Use 1/262144" HDPE for 1/262144" main lines.
- 21. Use 1/524288" HDPE for 1/524288" main lines.
- 22. Use 1/1048576" HDPE for 1/1048576" main lines.
- 23. Use 1/2097152" HDPE for 1/2097152" main lines.
- 24. Use 1/4194304" HDPE for 1/4194304" main lines.
- 25. Use 1/8388608" HDPE for 1/8388608" main lines.
- 26. Use 1/16777216" HDPE for 1/16777216" main lines.
- 27. Use 1/33554432" HDPE for 1/33554432" main lines.
- 28. Use 1/67108864" HDPE for 1/67108864" main lines.
- 29. Use 1/134217728" HDPE for 1/134217728" main lines.
- 30. Use 1/268435456" HDPE for 1/268435456" main lines.
- 31. Use 1/536870912" HDPE for 1/536870912" main lines.
- 32. Use 1/1073741824" HDPE for 1/1073741824" main lines.
- 33. Use 1/2147483648" HDPE for 1/2147483648" main lines.
- 34. Use 1/4294967296" HDPE for 1/4294967296" main lines.
- 35. Use 1/8589934592" HDPE for 1/8589934592" main lines.
- 36. Use 1/17179869184" HDPE for 1/17179869184" main lines.
- 37. Use 1/34359738368" HDPE for 1/34359738368" main lines.
- 38. Use 1/68719476736" HDPE for 1/68719476736" main lines.
- 39. Use 1/137438953472" HDPE for 1/137438953472" main lines.
- 40. Use 1/274877906944" HDPE for 1/274877906944" main lines.
- 41. Use 1/549755813888" HDPE for 1/549755813888" main lines.
- 42. Use 1/1099511627776" HDPE for 1/1099511627776" main lines.
- 43. Use 1/2199023255552" HDPE for 1/2199023255552" main lines.
- 44. Use 1/4398046511104" HDPE for 1/4398046511104" main lines.
- 45. Use 1/8796093022208" HDPE for 1/8796093022208" main lines.
- 46. Use 1/17592186444416" HDPE for 1/17592186444416" main lines.
- 47. Use 1/35184372888832" HDPE for 1/35184372888832" main lines.
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- 49. Use 1/140737491555296" HDPE for 1/140737491555296" main lines.
- 50. Use 1/281474983110592" HDPE for 1/281474983110592" main lines.
- 51. Use 1/562949966221184" HDPE for 1/562949966221184" main lines.
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- 53. Use 1/2251799864884736" HDPE for 1/2251799864884736" main lines.
- 54. Use 1/4503599729769472" HDPE for 1/4503599729769472" main lines.
- 55. Use 1/9007199459538944" HDPE for 1/9007199459538944" main lines.
- 56. Use 1/18014398919077888" HDPE for 1/18014398919077888" main lines.
- 57. Use 1/36028797838155776" HDPE for 1/36028797838155776" main lines.
- 58. Use 1/72057595676311552" HDPE for 1/72057595676311552" main lines.
- 59. Use 1/14411519135262304" HDPE for 1/14411519135262304" main lines.
- 60. Use 1/28823038270524608" HDPE for 1/28823038270524608" main lines.
- 61. Use 1/57646076541049216" HDPE for 1/57646076541049216" main lines.
- 62. Use 1/115292153082098432" HDPE for 1/115292153082098432" main lines.
- 63. Use 1/230584306164196864" HDPE for 1/230584306164196864" main lines.
- 64. Use 1/461168612328393728" HDPE for 1/461168612328393728" main lines.
- 65. Use 1/922337224656787456" HDPE for 1/922337224656787456" main lines.
- 66. Use 1/1844674449113754112" HDPE for 1/1844674449113754112" main lines.
- 67. Use 1/3689348898227508224" HDPE for 1/3689348898227508224" main lines.
- 68. Use 1/7378697796455016448" HDPE for 1/7378697796455016448" main lines.
- 69. Use 1/14757395528910032896" HDPE for 1/14757395528910032896" main lines.
- 70. Use 1/29514791057820065792" HDPE for 1/29514791057820065792" main lines.
- 71. Use 1/59029582115640131584" HDPE for 1/59029582115640131584" main lines.
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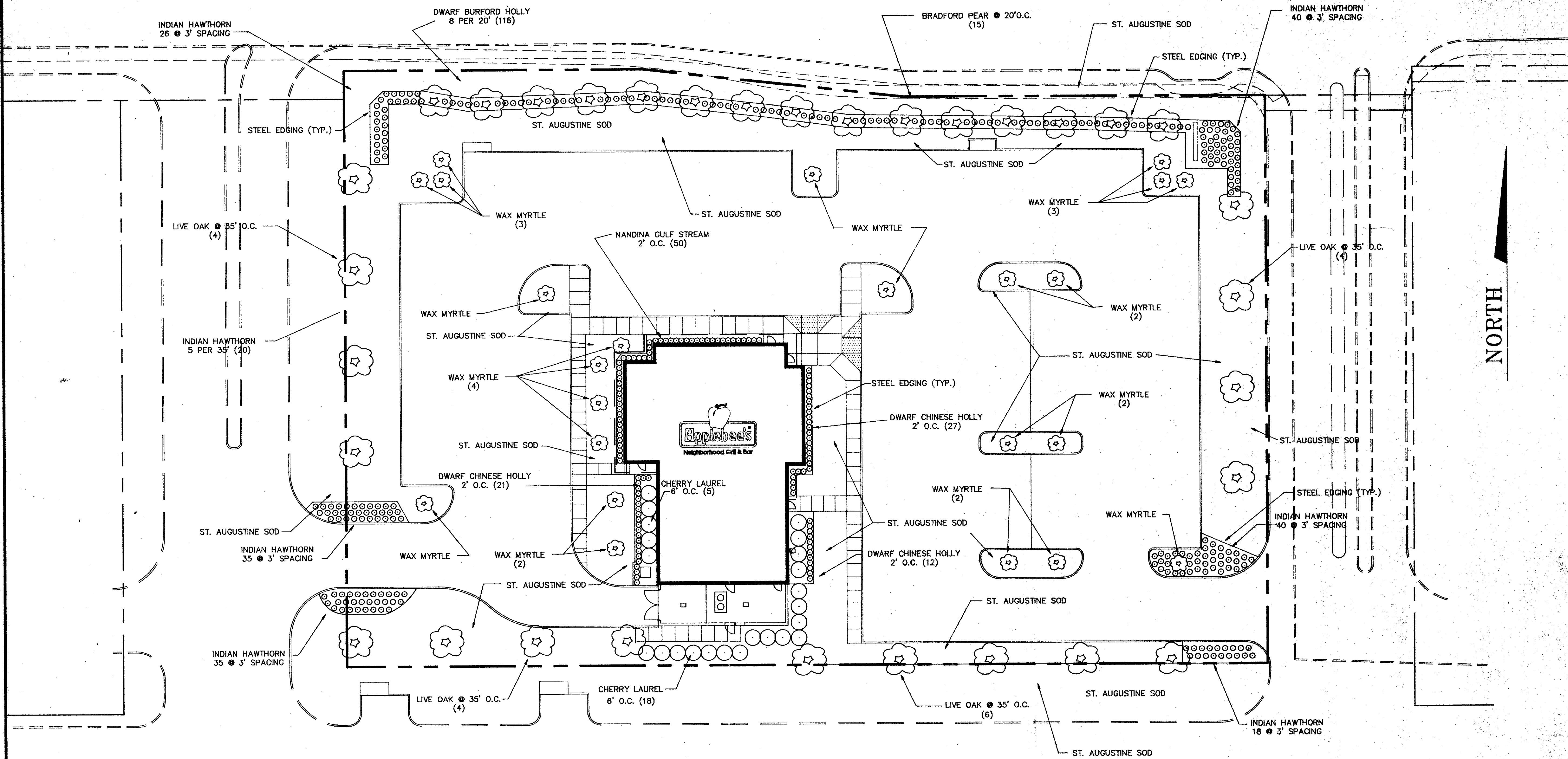
PLANT MATERIALS LIST

Common/Botanical Name	Size	Quantity	Spacing	Remarks
Cherry Laurel/Prunus caroliniana 'Bright n' Light'	15" gallon	23	8'0" o.c.	Min. spread 15'-18"; min. ht. 4'
Dwarf Burford Holly/Ilex cornuta 'Burford Nano'	5 gallon	81	As Shown	Full plants, min. 24" ht.
Dwarf Chinese Holly/Ilex cornuta 'Rotundo'	5 gallon	82	2'0" o.c.	Full plants, min. 24" ht.
Nandina 'Gulfstream'/Nandina domestica 'Compacta Gulfstream'	5 gallon	50	2'0" o.c.	Full plants, min. 18" ht.
Indian Hawthorn/Rathliopala indica	5 gallon	145	As Shown	Full plants, well rooted
Wax Myrtle/Myrica caribaea	8"-10" ht.	23	As Shown	16" x 24" Root and Ball nursery grown
Live Oak/Quercus virginiana	3" Single Trunk	17	35' o.c.	12' min. ht., 8' min. spread
Bradford Pear/Pyrus calleryana 'Bradford'	3" Single Trunk	15	20' o.c.	12' min. ht., 8' min. spread

BELT LINE ROAD

BUSINESS DRIVE

NOTES  
SEE SHEET LS-2 FOR LANDSCAPE NOTES AND DETAILS



DATE PLOTTED: 3-26-93

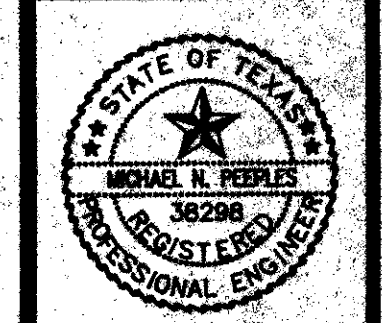
**MP** MICHAEL PEEPLES  
Engineers and Planners  
214 248-1888  
1680 Sunbelt Dallas, Texas 75246



LANDSCAPE PLAN

LANDSCAPE DATA

1. SITE AREA	= 75,006 SQ.FT.
2. LANDSCAPE AREA REQUIRED	= 15,001 SQ.FT.
3. TOTAL LANDSCAPE AREA PROVIDED	= 22,789 SQ.FT.
4. PARKING, MEDIAN, & DRIVES AREA	= 10,733 SQ.FT.
5. INTERIOR LANDSCAPE AREA REQUIRED	= 2,071 SQ.FT.
6. INTERIOR LANDSCAPE AREA PROVIDED	= 6,138 SQ.FT.
7. PARKING LOT PERIMETER TREES REQUIRED	= 38
8. PARKING LOT PERIMETER TREES PROVIDED	= 33



LS-1  
ADDISON, TEXAS

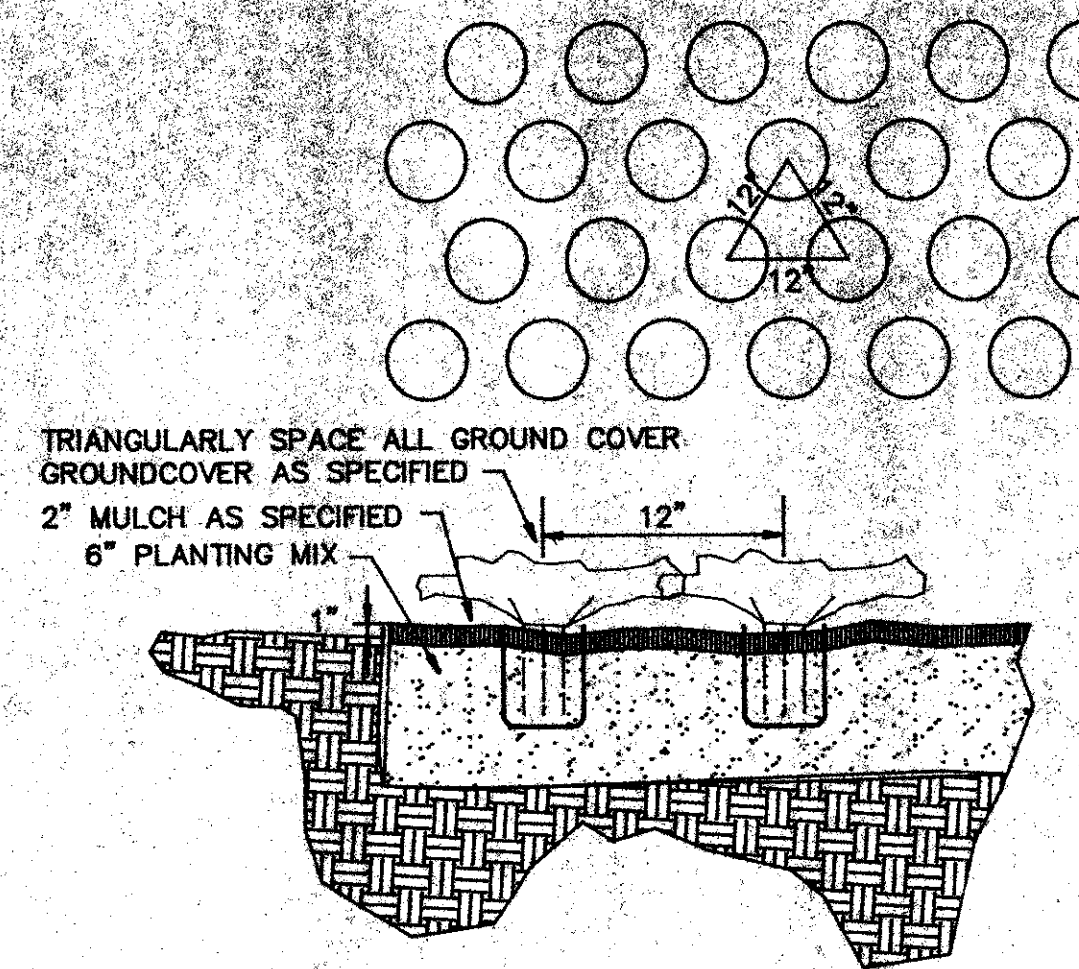
PLOTTED 5-21-93



**NOTES**

**LANDSCAPE NOTES**

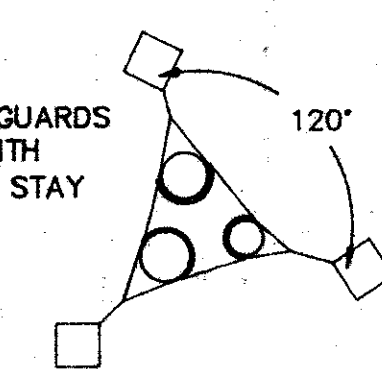
1. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL LINES, UNDERGROUND UTILITIES, PIPES AND STRUCTURES WHETHER OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF ALL UNDERGROUND UTILITIES AND WILL BE RESPONSIBLE FOR COSTS INCURRED DUE TO DAMAGE OR REPLACEMENT OF SAID LINES, UTILITIES, OR STRUCTURES CAUSED BY HIS FORCES.
2. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION, AS DESIGNED, WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS OR CONDITIONS EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
3. THE CROWN OF ALL PLANTS SHALL BE SLIGHTLY HIGHER, AFTER SETTLING, THAN ADJACENT SOIL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING OR ADDING TOP SOIL AS NEEDED FOR THE INCLUSION OF THE SOIL AMENDMENTS AS NEEDED IN THE PREPARED GROUND COVER BEDS.
5. ALL GROUND COVERS ARE TO BE ALIGNED IN STRAIGHT EVEN ROWS AND TRIANGULARLY SPACED AT THE SPACING SHOWN ON THE PLANT LIST.
6. SEE THE TECHNICAL SPECIFICATIONS AND DETAILS FOR TREE PLANTING AND EXECUTION.
7. ALL PLANTING BEDS AND TREE PITS ARE TO RECEIVE A MINIMUM OF 2" OF MULCH TOP DRESSING, AS SPECIFIED. SAVE THIS OPERATION UNTIL NEAR FINAL INSPECTION.
8. ALL SHRUBS PLANTED UNDER THIS CONTRACT ARE TO BE POCKET-PLANTED PER DETAILS.
9. ALL EXCESS EXCAVATION IS TO BE REMOVED AND DISPOSED OF OFF SITE. THE CONTRACTOR IS RESPONSIBLE FOR ALL IRRIGATION CHANGES AND MODIFICATIONS AS CALLED OUT ON THE PLANS AND CROSS SECTIONS.
11. ALL WORK SHALL BE GUARANTEED AGAINST ALL DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE.
12. ALL SINGLE TRUNK TREES ARE TO BE STAKED; HOSE AND GUY WIRES OVERLAPPED.
13. COVER AREAS TO BE PLANTED WITH 3" APPROVED ORGANIC MATTER, 1" PINE BARK MULCH, AND 15-5-10 FERTILIZER AT THE RATE OF 15 LBS. PER 1000 SQUARE FEET OF BED AREA. AFTER SPREADING SOIL AMMENDMENTS IN BED AREAS, TILL TO A DEPTH OF 8".



TRIANGULARLY SPACE ALL GROUND COVER  
GROUND COVER AS SPECIFIED  
2" MULCH AS SPECIFIED  
6" PLANTING MIX

**GROUND COVER PLANTING DETAIL**

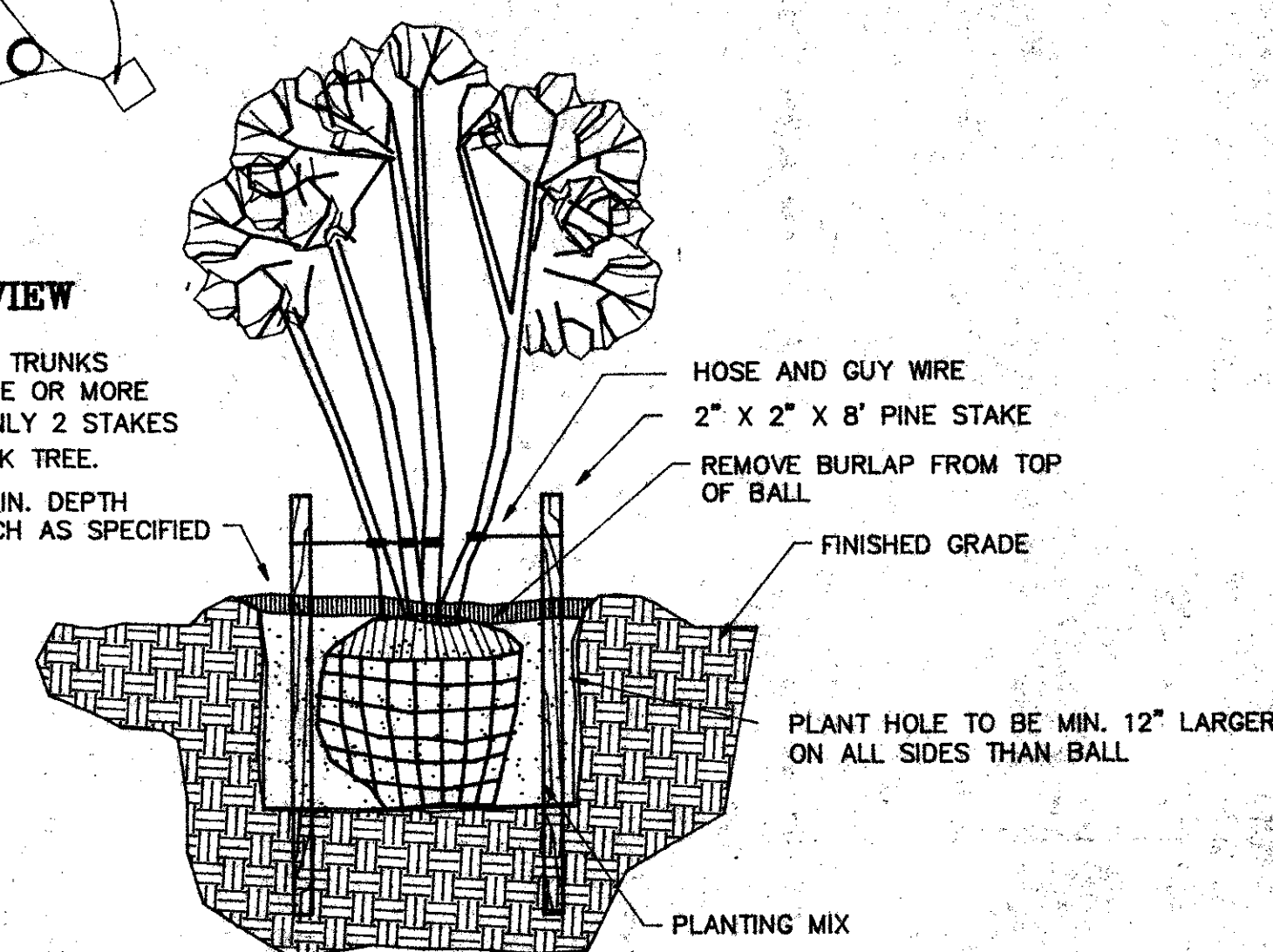
LACE HOSE GUARDS  
TOGETHER WITH  
SINGLE WIRE STAY



**PLAN VIEW**

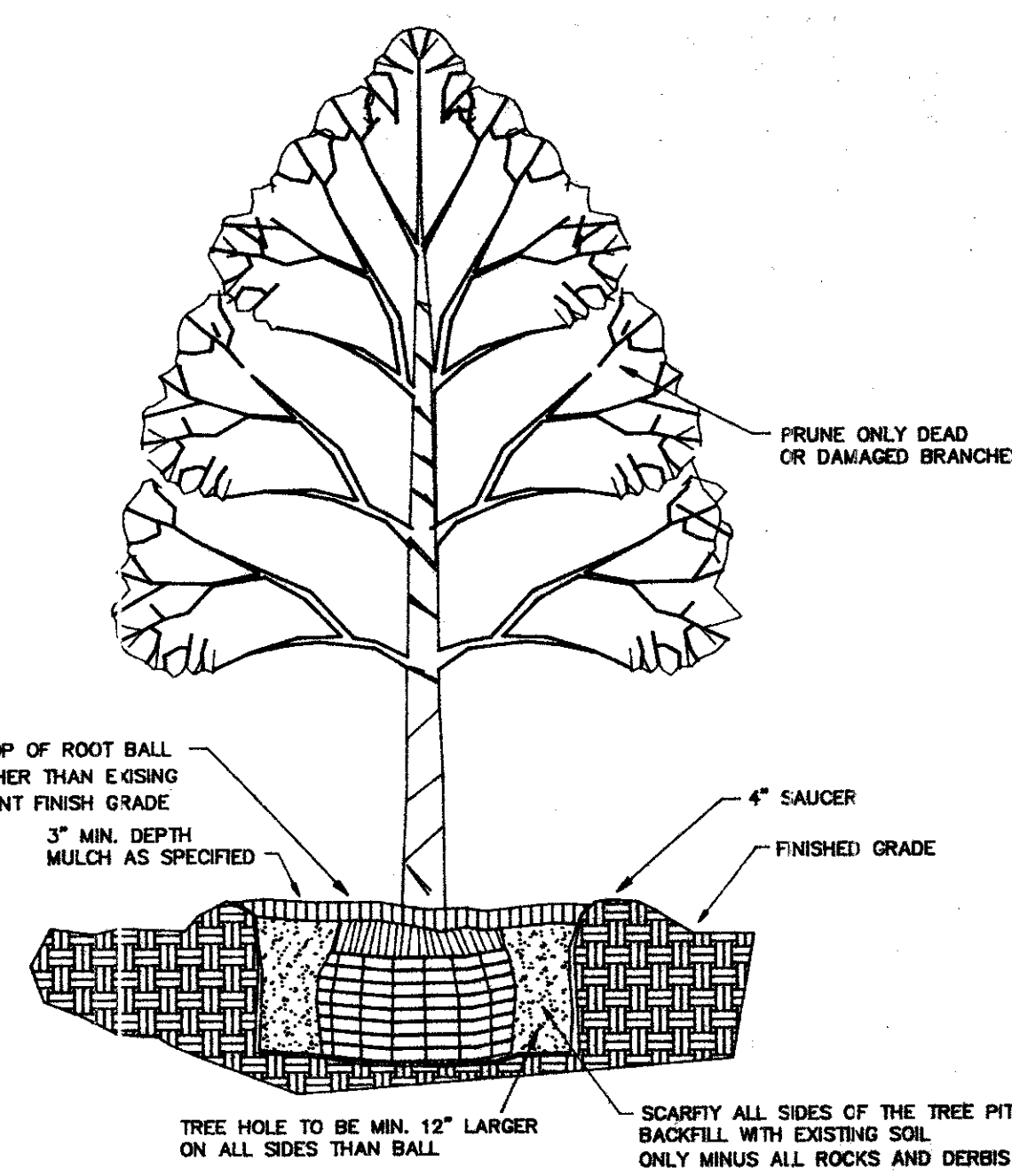
STAKE 3 LARGEST TRUNKS  
IF TREE HAS THREE OR MORE  
LEADERS. USE ONLY 2 STAKES  
PER SINGLE TRUNK TREE.

2" MIN. DEPTH  
MULCH AS SPECIFIED



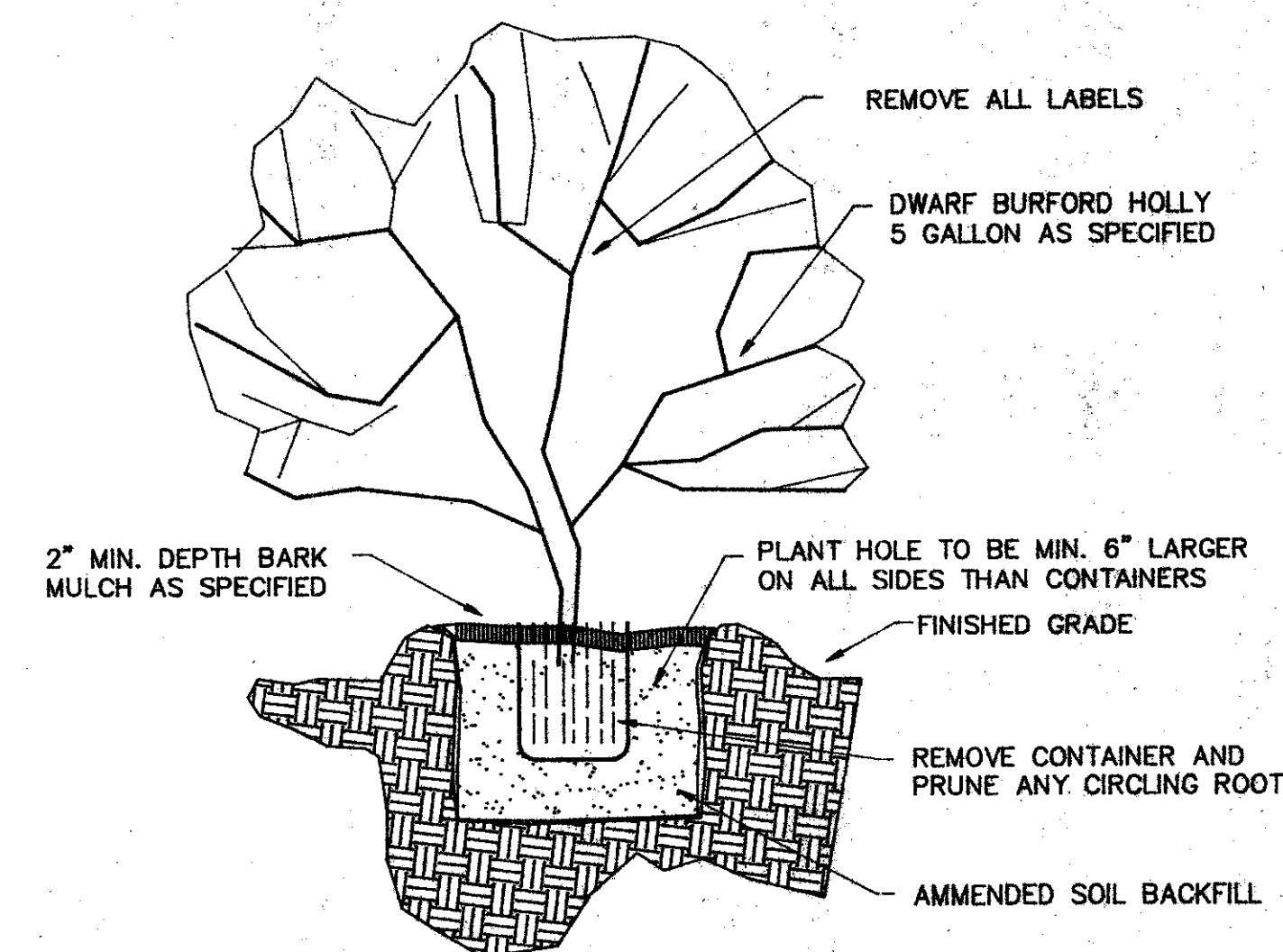
**ORNAMENTAL TREE PLANTING DETAIL**

NTS



**TREE PLANTING DETAIL**

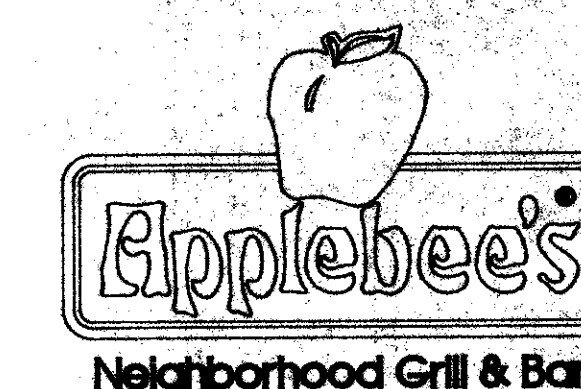
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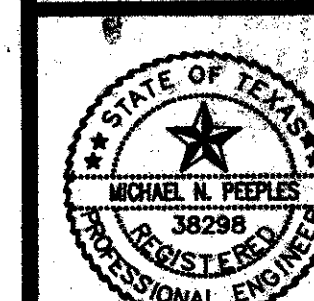
**POCKET-PLANTED SHRUB DETAIL**

NTS

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4860 Sunbelt Dallas, Texas 75248



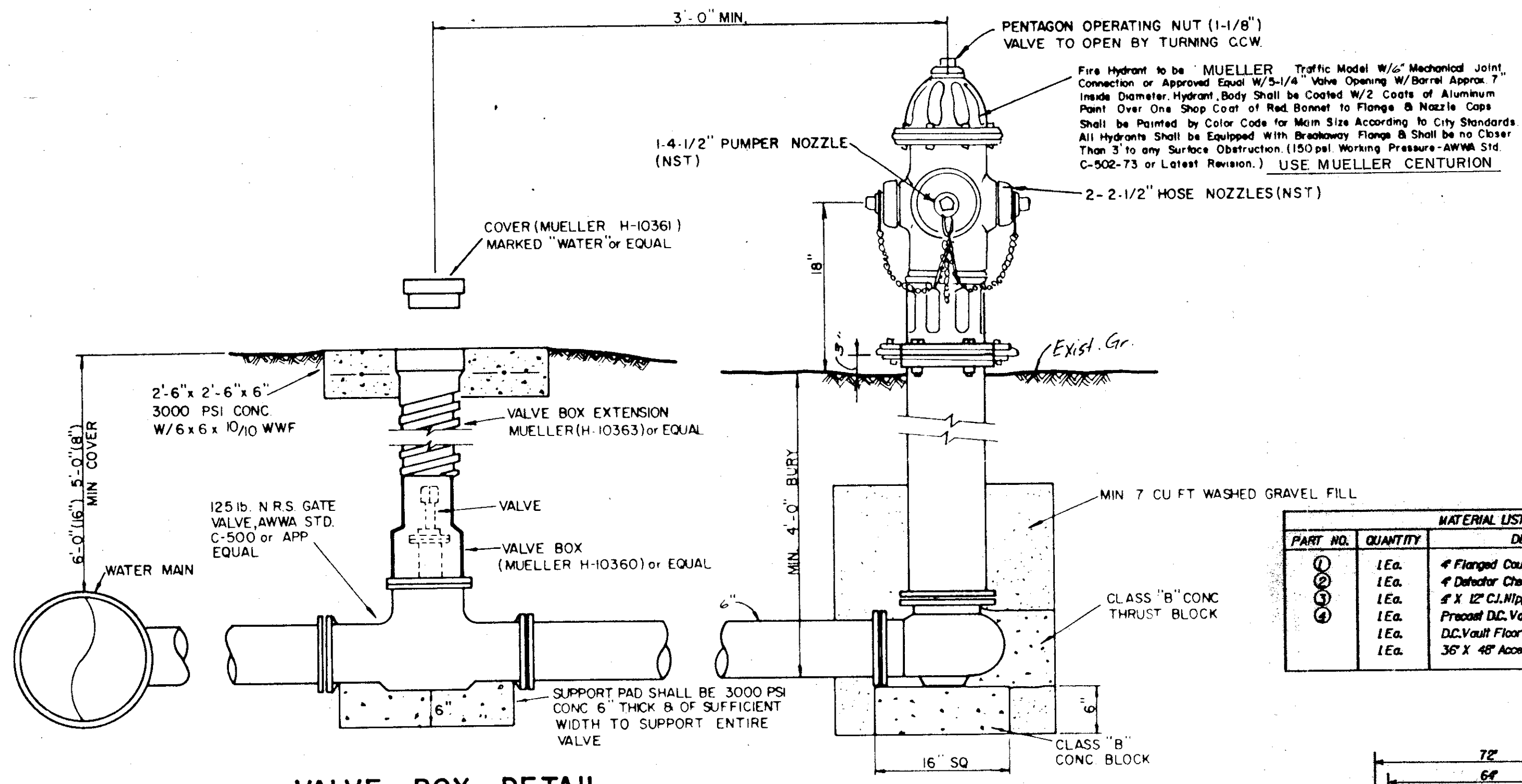
**LANDSCAPE PLAN**



**LS-2**

ADDISON, TEXAS

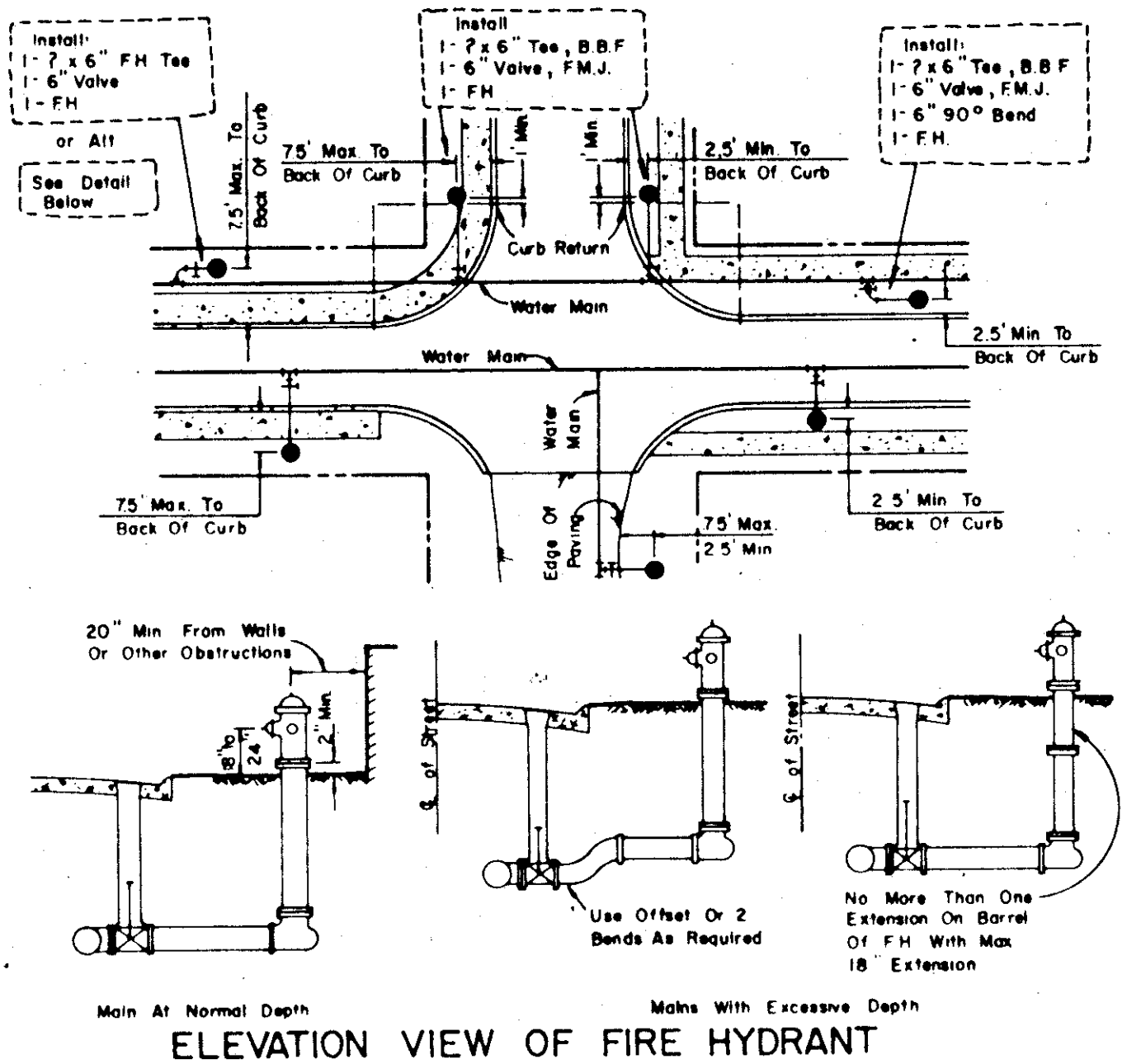
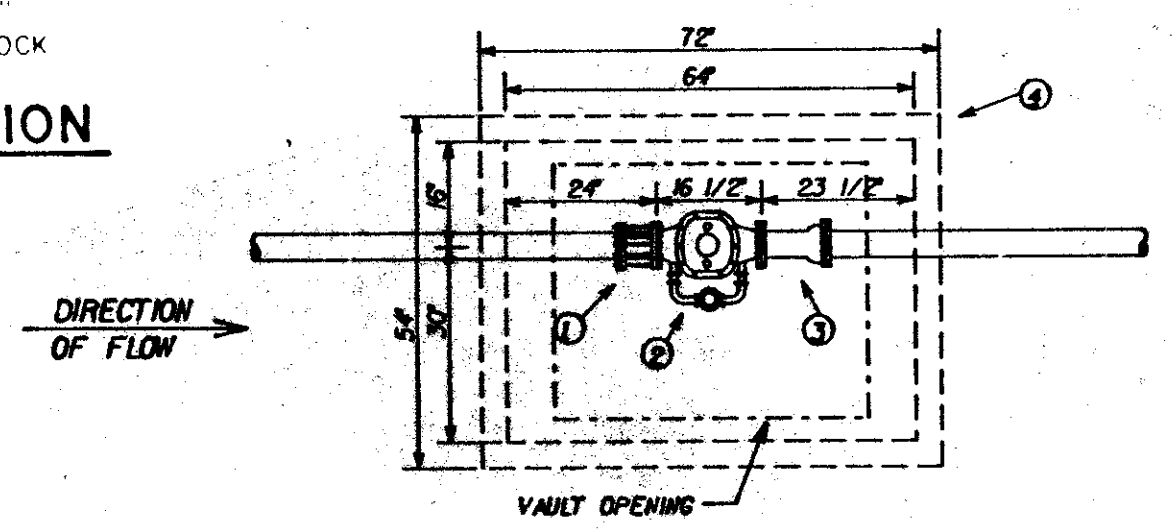




**VALVE BOX DETAIL**  
(SEE PLANS FOR "MAIN SIZE")

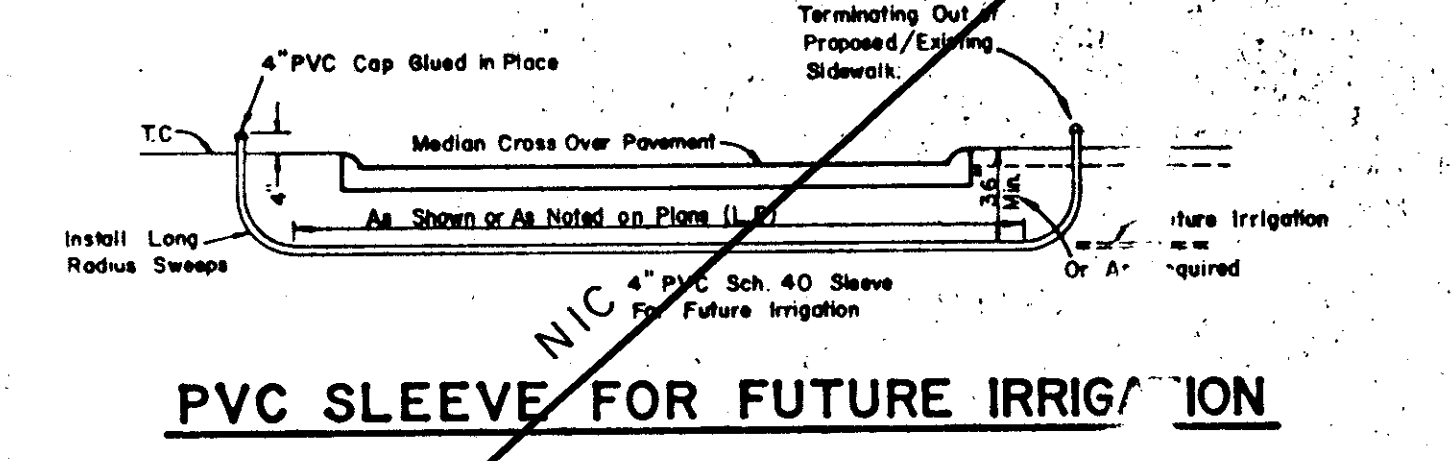
**FIRE HYDRANT INSTALLATION**  
(INCLUDES 6" VALVE)  
No Scale

PART NO.	QUANTITY	DESCRIPTION
1	1	4" Flanged Coupling Adapter
2	1	4" Detector Check Device W/By-Pass Meter
3	1	4" X 12" CL Nipple M.J.X.F.
4	1	Precast DC Vault
		DC Vault Floor (Not Shown)
		36" X 48" Access Hatch (Not Shown)

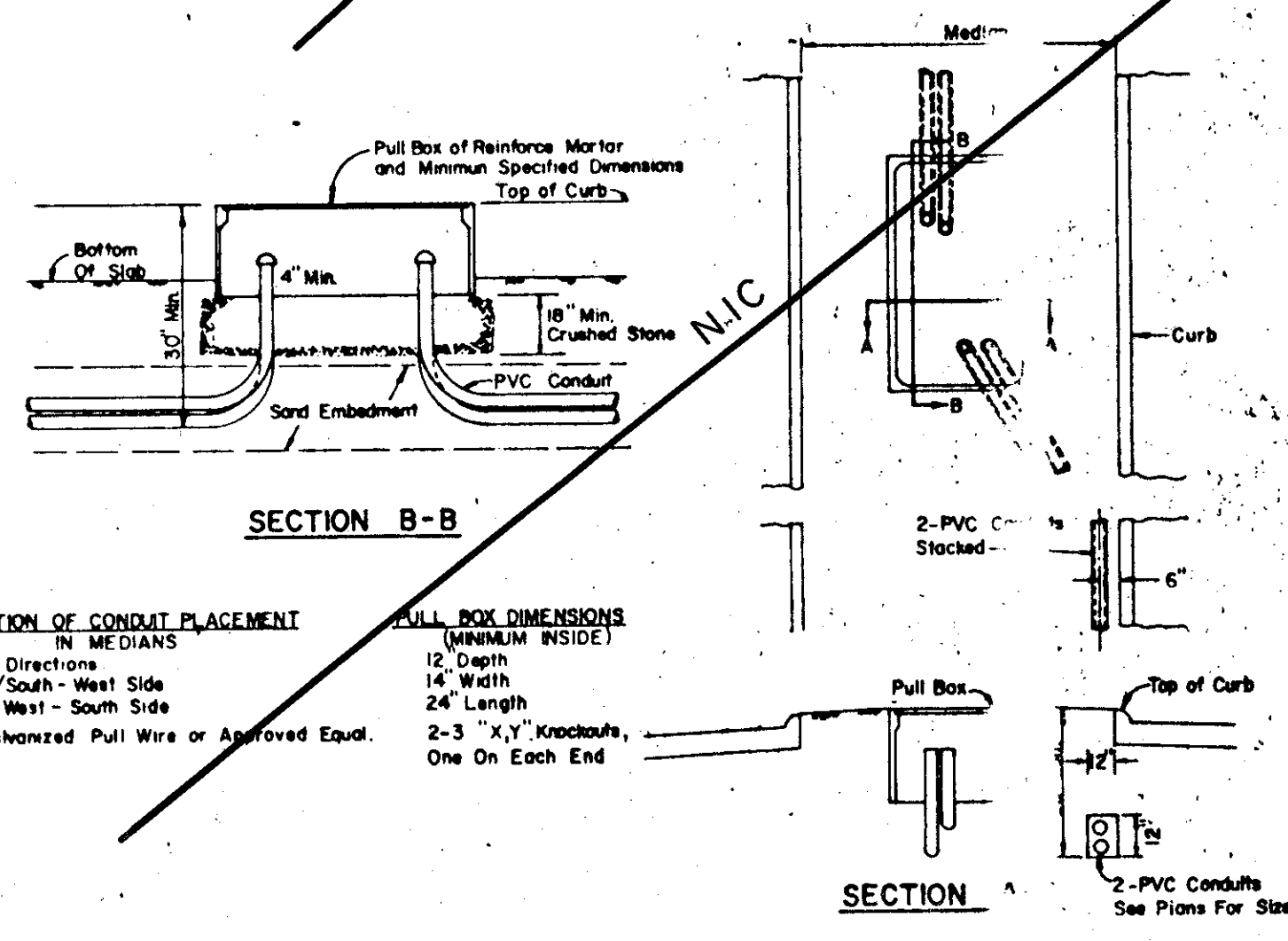


**ELEVATION VIEW OF FIRE HYDRANT**

- GENERAL NOTES**
1. C. of F.H. Barrel shall be not less than 6.0' or more than 9.0' from Back of Curb or Edge of Pavement.
  2. Do Not Set F.H. in an Existing or Proposed Sidewalk, Unless Otherwise Noted.
  3. All F.H. Tees shall be M.J. with Anchoring on the Branch with M.J. & V. Valve.
  4. Set F.H. on the Lot Line Extended When Possible.
  5. On Private Contracts, The Developer's Engineer Will Stake Location & Grade.
  6. Never Place F.H. Where Fire Truck Could Not Park Beside It.

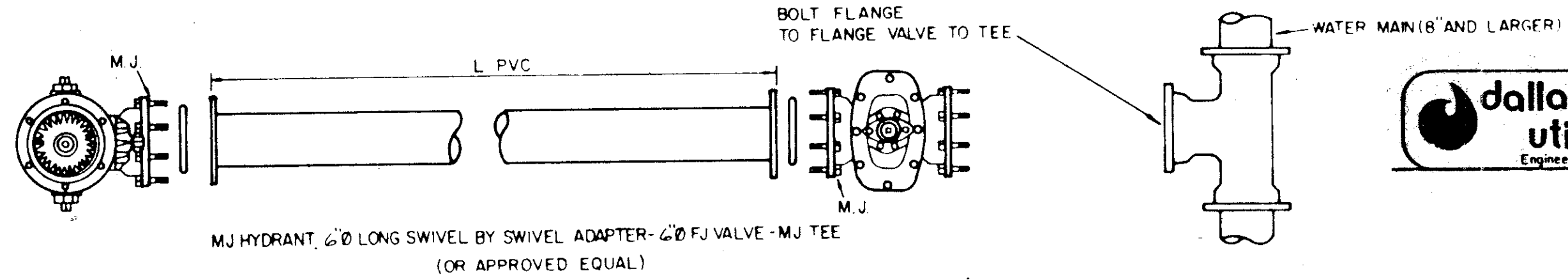


**PVC SLEEVE FOR FUTURE IRRIGATION**



**PULL BOX & CONDUIT DETAIL**

- GATE VALVES AND VALVE BOXES.**
1. GATE VALVES SHALL BE IRON BODY, BRONZE OR BRASS MOUNTED, NON-RISING STEM, PARALLEL SEAT TYPE VALVES SHALL BE OF EQUAL OR GREATER PRESSURE CLASS THAN THE PIPING IN WHICH THEY ARE TO BE INSTALLED.
  2. VALVE BOXES SHALL BE CAST IRON AND SHALL BE OF SUFFICIENT LENGTH AND DIAMETER TO OPERATE ALL VALVES BURIED IN THE GROUND COVERS SHALL BE MARKED "WATER." THE BOXES SHALL REST ON THE VALVE AND BE ADJUSTED SO THAT THE COVER MAY BE SET FLUSH WITH THE FINISHED GRADE.

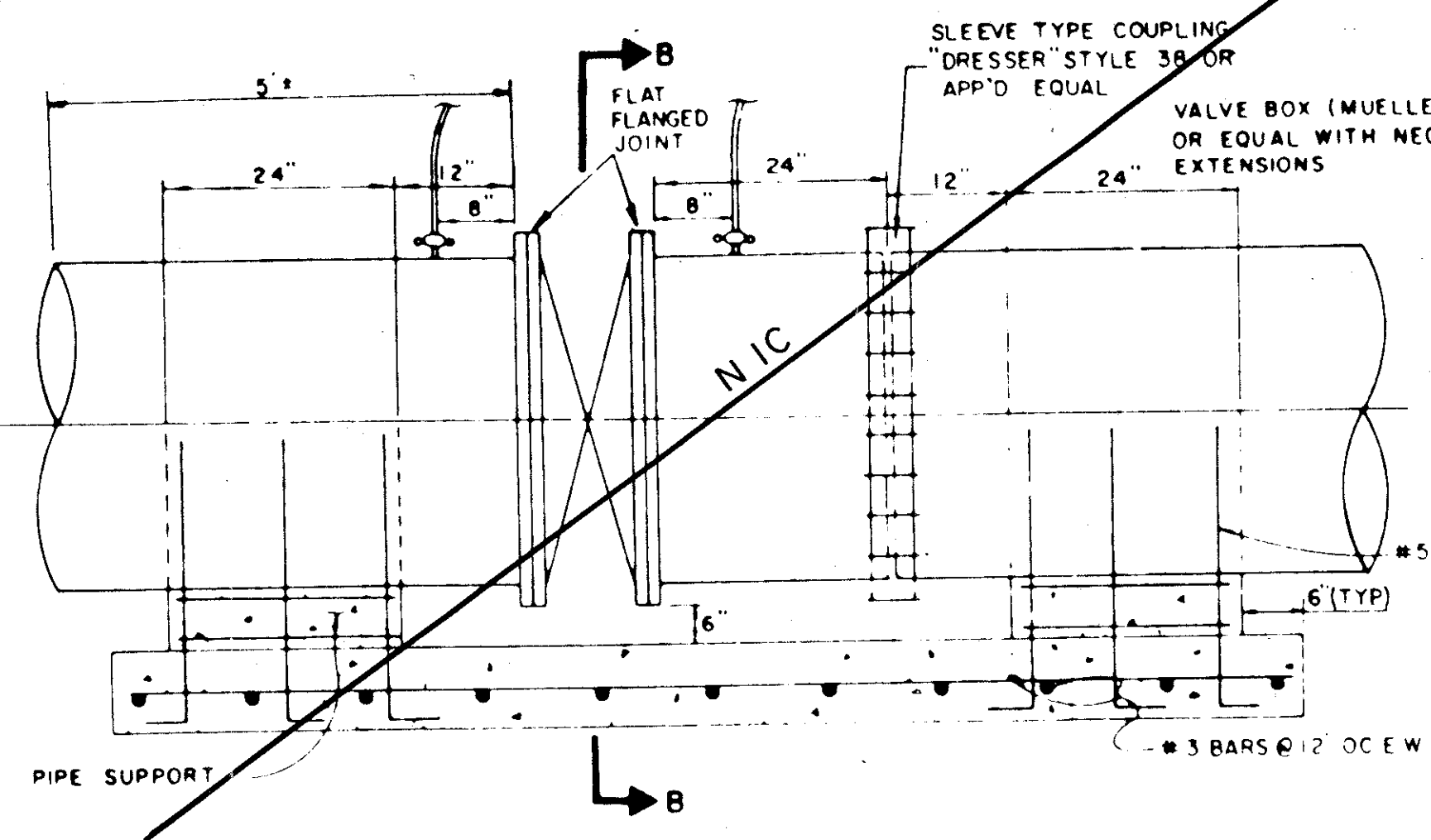


**TYPICAL FIRE HYDRANT INSTALLATION**

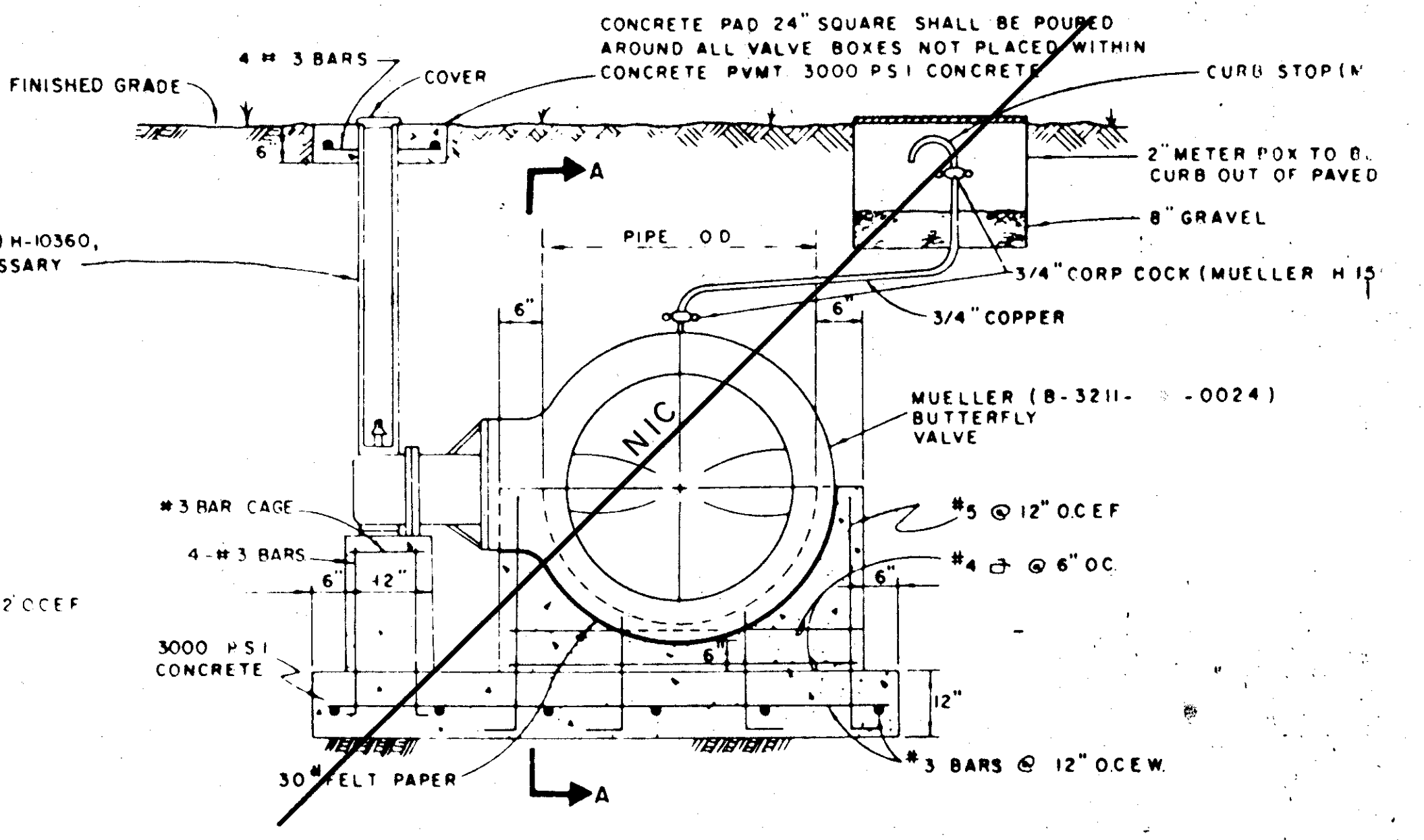
Ref: 414M-Shs.1.1 to 1.5

**dallas water utilities**  
Engineering Division

**4" CLOSED FIRELINE SERVICE WITH 4" DETECTOR CHECK DEVICE**  
DATE: Oct. 1986 FILE: 414M-4.1

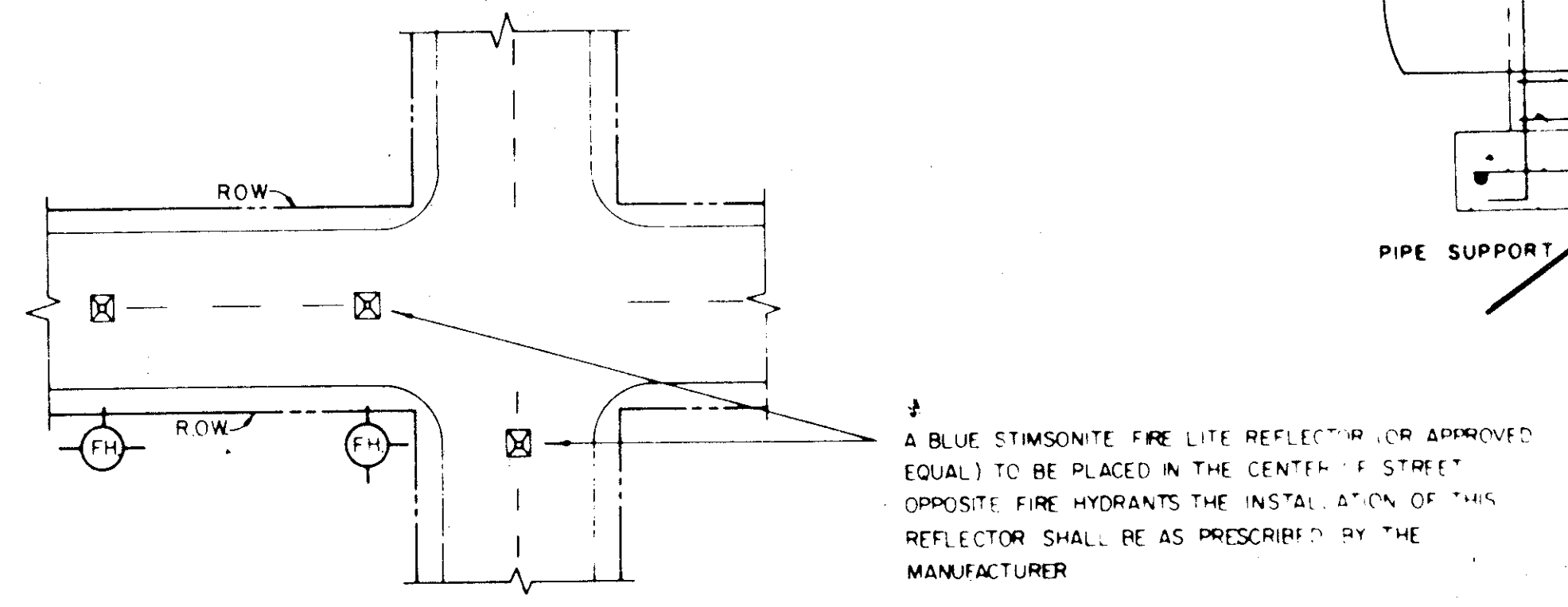


**SECTION A-A**

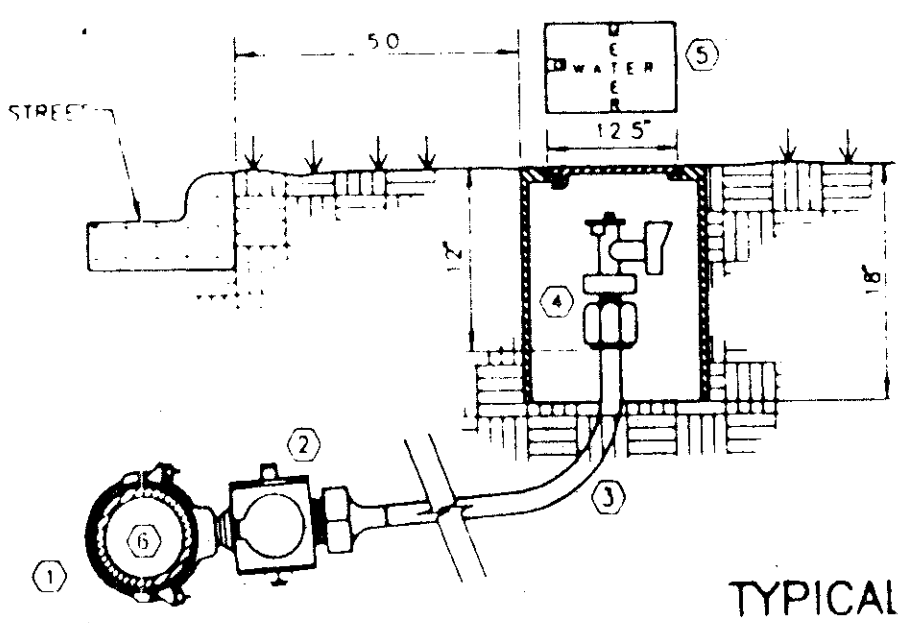


**SECTION B-B**

**BUTTERFLY VALVE DETAIL**



**TYPICAL FIRE HYDRANT REFLECTOR INSTALLATION**



**TYPICAL WATER SERVICE DETAIL**

1. DOUBLE STRAP BRONZE SADDLE W/C/W THREADS. MUELLER
2. CORPORATION STOP W/C/W THREADS. MUELLER H-15008 COMPRESSION OR H-15000 FLARED
3. 3/4" TYPE "W" SOFT COPPER W/NO SPLICES
4. ANGLE STOP W/LOCK WING. MUELLER H-14258 COMPRESSION OR H-14255 FLARED
5. WATER METER BOX (RECTANGULAR SHAPE ONLY) CONCRETE OR METAL SHELL CONSTRUCTION
6. WATER MAIN PVC AWWA C900 SDR 14/18 INTEGRAL WALL BELL

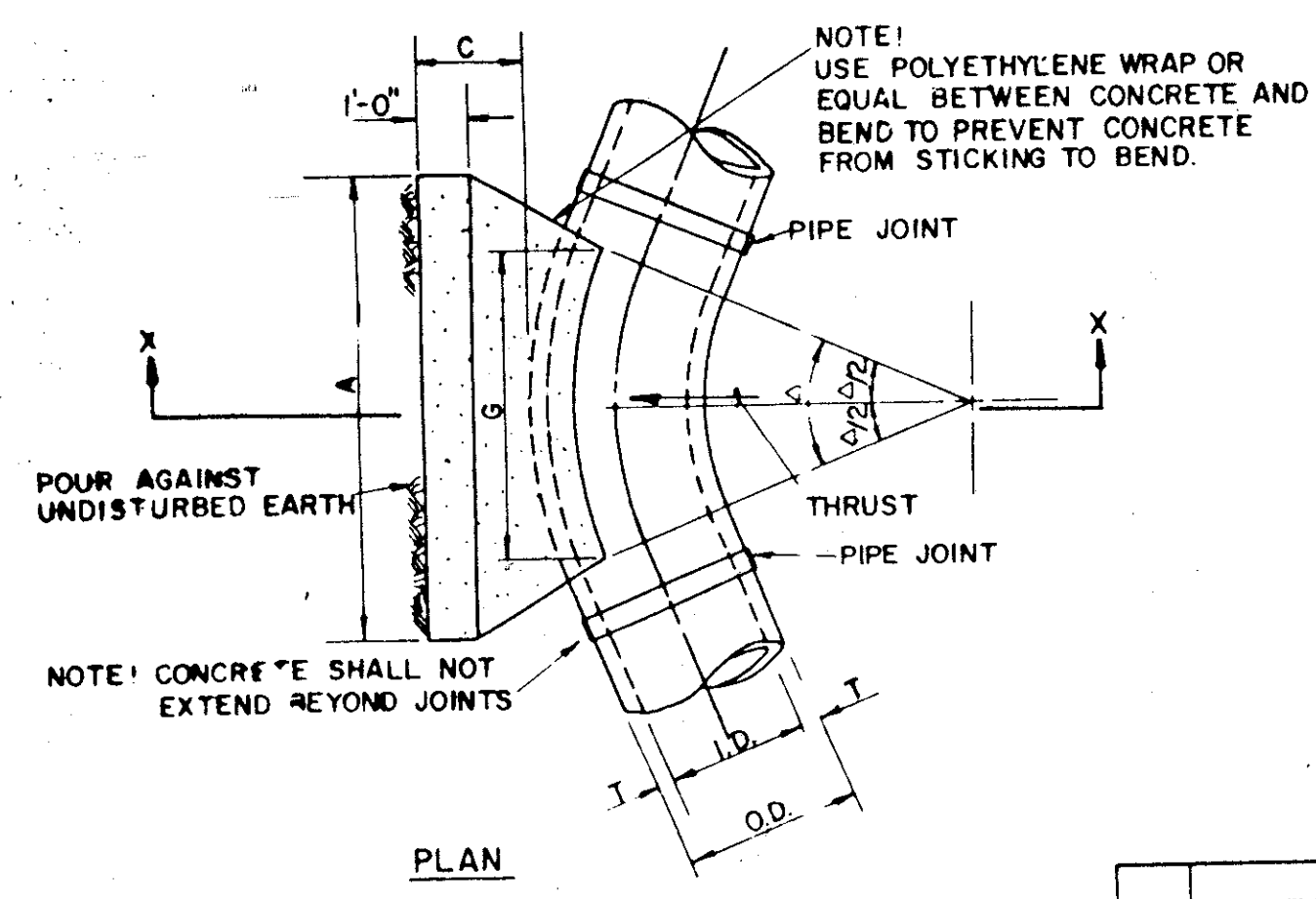
TOWN OF ADDISON, TEXAS  
DEPARTMENT OF ENGINEERING

**STANDARD CONSTRUCTION DETAILS**  
WATER

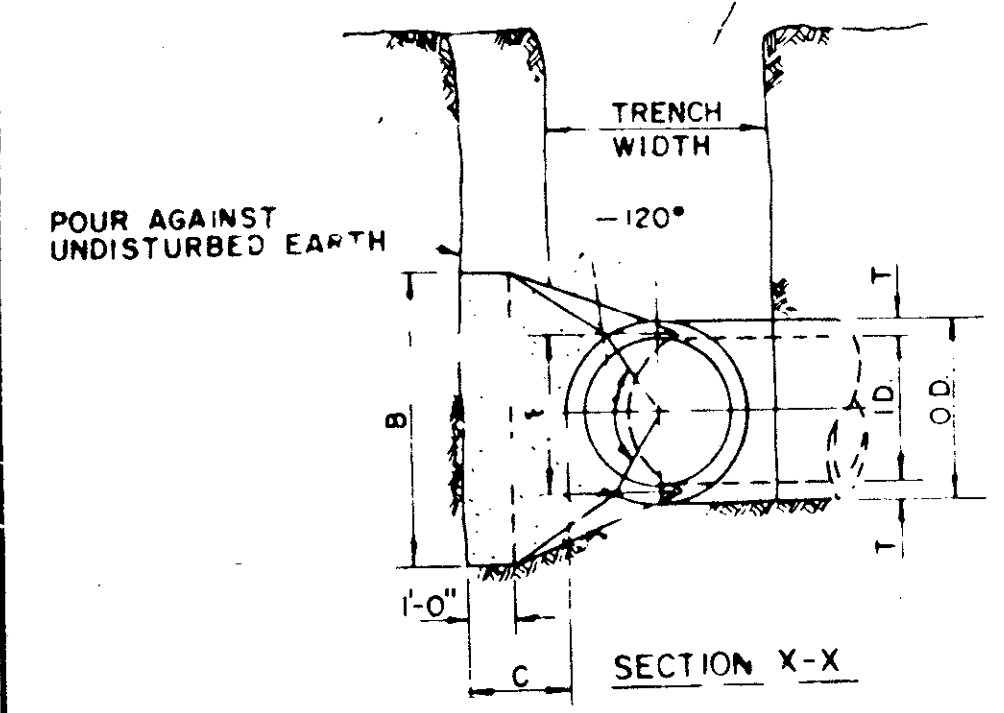
**FIRE HYDRANTS, PULL BOXES AND VALVES**

Designed -	Drawn -	Date -	Job No. -
Approved -	Checked -	Scale -	Sheet SD 5





I.D. (IN.)	T (IN.)	C 11.25" FT.			C 22.50" FT.			E FT.
		A	B	VOL. C.Y.	A	B	VOL. C.Y.	
4.68	0.4	1.5	1.5	0.9				
10.12	0.5	1.5	1.5	1.2				
16.18	0.6	1.5	1.5	1.6				
20	0.7	1.5	1.5	1.8				
24	0.9	1.5	1.5	2.1				
30	2.9	1.5	1.5	2.6				
36	4.5	1.5	2.3	3.3				
42	5.0	1.8	2.6	3.8				
48	5.5	2.0	3.0	4.3				
54	6.0	2.3	3.4	4.8				
60	6.5	2.5	3.8	5.3				
66	6.8	2.8	4.1	5.7				
72	7.5	3.0	4.5	6.3				
78	7.5	3.3	4.9	6.7				
84	8.0	3.5	5.3	7.2				
90	8.5	3.8	5.6	7.7				
96	9.0	4.0	6.0	8.2				



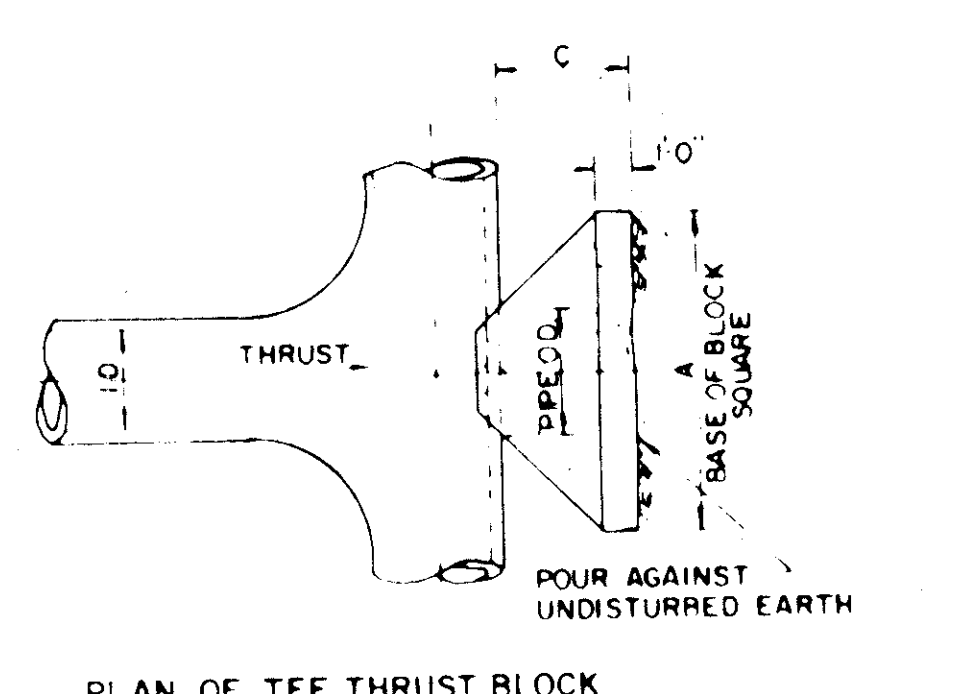
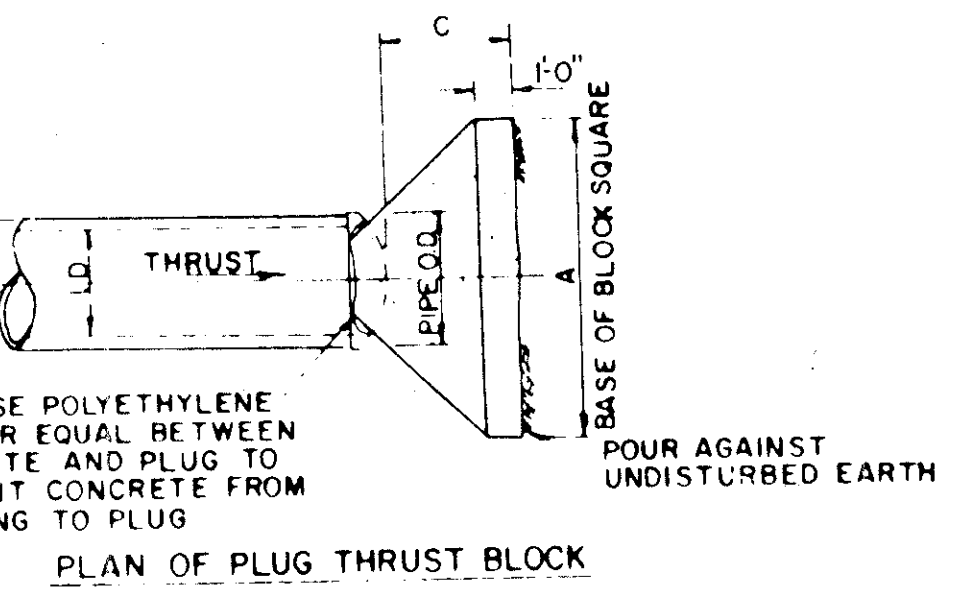
I.D. (IN.)	G FT.	EARTH			ROCK			I.D. (IN.)	G FT.	EARTH			ROCK			
		A	B	VOL. C.Y.	A	B	VOL. C.Y.			A	B	VOL. C.Y.	A	B	VOL. C.Y.	
4.68	0.4	1.0	1.0	0.1	1.0	1.0	0.1	4.68	0.8	2.0	1.5	1.5	0.1	1.0	1.0	0.1
10.12	0.6	2.2	1.5	0.1	1.0	1.3	0.1	10.12	1.1	4.4	2.0	2.5	0.3	1.5	1.5	0.1
16.18	0.8	5.0	2.0	0.2	1.5	2.0	0.2	16.18	1.6	9.9	3.0	3.5	0.6	2.0	2.5	0.3
20	0.9	6.2	2.0	0.3	0.4	1.5	0.3	20	1.8	12.3	3.5	3.5	0.7	2.0	3.5	0.4
24	1.1	8.9	3.0	0.5	1.5	3.0	0.3	24	2.2	17.7	4.0	4.5	1.0	3.0	3.0	0.5
30	1.4	10.4	3.0	0.6	2.0	3.5	0.4	30	2.7	20.7	5.0	4.5	1.5	3.0	4.0	0.8
36	1.7	15.0	3.5	0.9	2.0	4.0	0.5	36	3.3	29.8	5.5	5.5	2.3	4.0	4.0	1.3
42	1.9	20.4	4.5	1.5	2.5	5.0	0.8	42	3.8	40.5	7.0	6.0	3.9	4.5	5.0	2.1
48	2.2	26.6	4.5	6.0	2.0	2.5	6.0	11.48	4.4	52.9	8.0	7.0	3.7	4.8	8.0	2.8
54	2.5	33.7	6.0	6.0	3.0	3.0	6.0	14.54	4.9	67.0	9.0	8.0	6.0	6.0	6.0	4.1
60	2.7	41.6	6.0	7.0	3.8	3.0	7.0	18.60	5.5	82.7	9.5	9.0	10.6	6.0	7.0	5.3
66	3.0	50.3	6.5	8.0	5.1	3.5	8.0	27.66	6.0	100.1	10.5	10.0	14.1	6.5	8.0	7.2
72	3.3	59.9	7.5	8.0	6.3	4.0	8.0	37.72	6.6	119.1	11.0	11.0	17.6	7.5	8.0	9.1
78	3.6	70.2	8.0	9.0	8.1	4.0	9.0	39.78	7.1	139.8	12.0	12.0	22.5	8.0	9.0	11.7
84	3.8	81.5	8.5	10.0	10.3	4.5	10.0	53.84	7.6	162.1	13.0	12.5	27.2	8.5	10.0	14.8
90	4.1	93.9	9.5	10.0	12.2	5.0	10.0	63.90	8.2	186.1	14.0	13.5	33.7	9.5	10.0	17.7
96	4.4	106.4	10.0	11.0	15.0	5.0	11.0	74.96	8.7	211.7	15.0	14.5	41.2	10.0	11.0	21.8

**HORIZONTAL BEND THRUST BLOCK**

I.D. (IN.)	G FT.	EARTH			ROCK			I.D. (IN.)	G FT.	EARTH			ROCK				
		A	B	VOL. C.Y.	A	B	VOL. C.Y.			A	B	VOL. C.Y.	A	B	VOL. C.Y.		
4.68	1.0	2.6	2.0	1.5	0.2	1.0	1.8	0.1	4.68	1.5	3.9	2.0	2.0	0.2	1.5	1.5	0.1
10.12	1.9	5.9	2.5	2.5	0.3	2.0	1.5	0.2	10.12	2.2	6.7	3.5	2.5	0.5	2.0	2.5	0.3
16.18	2.2	13.2	3.9	4.0	0.8	2.5	3.0	0.8	16.18	3.2	19.5	4.5	4.5	1.2	3.0	3.5	0.6
20	2.4	16.3	4.5	4.0	1.0	3.0	3.0	0.5	20	3.6	24.1	5.5	4.5	1.5	3.5	3.8	0.7
24	2.9	23.4	6.0	4.0	1.4	3.5	3.5	0.7	24	4.3	34.6	8.0	4.5	2.3	4.5	4.0	1.1
30	3.6	27.5	5.5	5.0	1.9	3.5	4.0	0.9	30	5.4	40.6	8.5	5.0	3.2	5.5	4.0	1.6
36	4.4	39.5	7.0	6.0	3.4	4.5	4.5	1.6	36	6.5	58.5	10.0	6.0	5.3	6.5	4.5	2.6
42	5.1	53.8	8.0	7.0	5.1	5.5	5.0	2.5	42	7.5	79.6	11.5	7.0	8.1	8.0	5.0	4.2
48	5.8	70.3	9.0	8.0	7.4	6.0	6.0	3.7	48	8.6	104.0	13.0	8.0	11.9	9.0	6.0	6.3
54	6.5	89.0	10.0	9.0	10.3	7.0	6.5	5.3	54	9.7	131.5	15.0	9.0	17.1	10.5	6.5	8.9
60	7.3	110.0	11.0	10.0	13.9	7.5	7.5	7.3	60	10.7	162.4	16.5	10.0	23.1	11.0	7.5	12.0
66	8.0	132.9	12.5	11.0	18.9	8.5	8.0	9.6	66	11.8	196.5	18.0	11.0	30.1	12.0	8.5	16.2
72	8.7	158.2	13.5	12.0	24.0	9.0	9.0	12.3	72	12.9	233.9	19.5	12.0	38.6	14.0	8.5	20.7
78	9.4	185.6	14.5	13.0	30.0	10.0	9.5	15.8	78	13.9	274.5	21.5	13.0	49.8	14.5	9.5	25.9
84	10.1	215.3	15.5	14.0	37.1	10.5	10.5	19.5	84	15.0	318.4	23.0	14.0	61.2	15.5	10.5	32.8
90	10.9	247.1	16.5	15.0	45.0	11.5	11.0	23.9	90	16.1	365.5	24.5	15.0	74.5	17.5	10.5	39.8
96	11.6	281.2	18.0	16.0	55.5	12.5	11.5	28.9	96	17.1	415.6	26.0	16.0	89.5	18.5	11.5	48.5

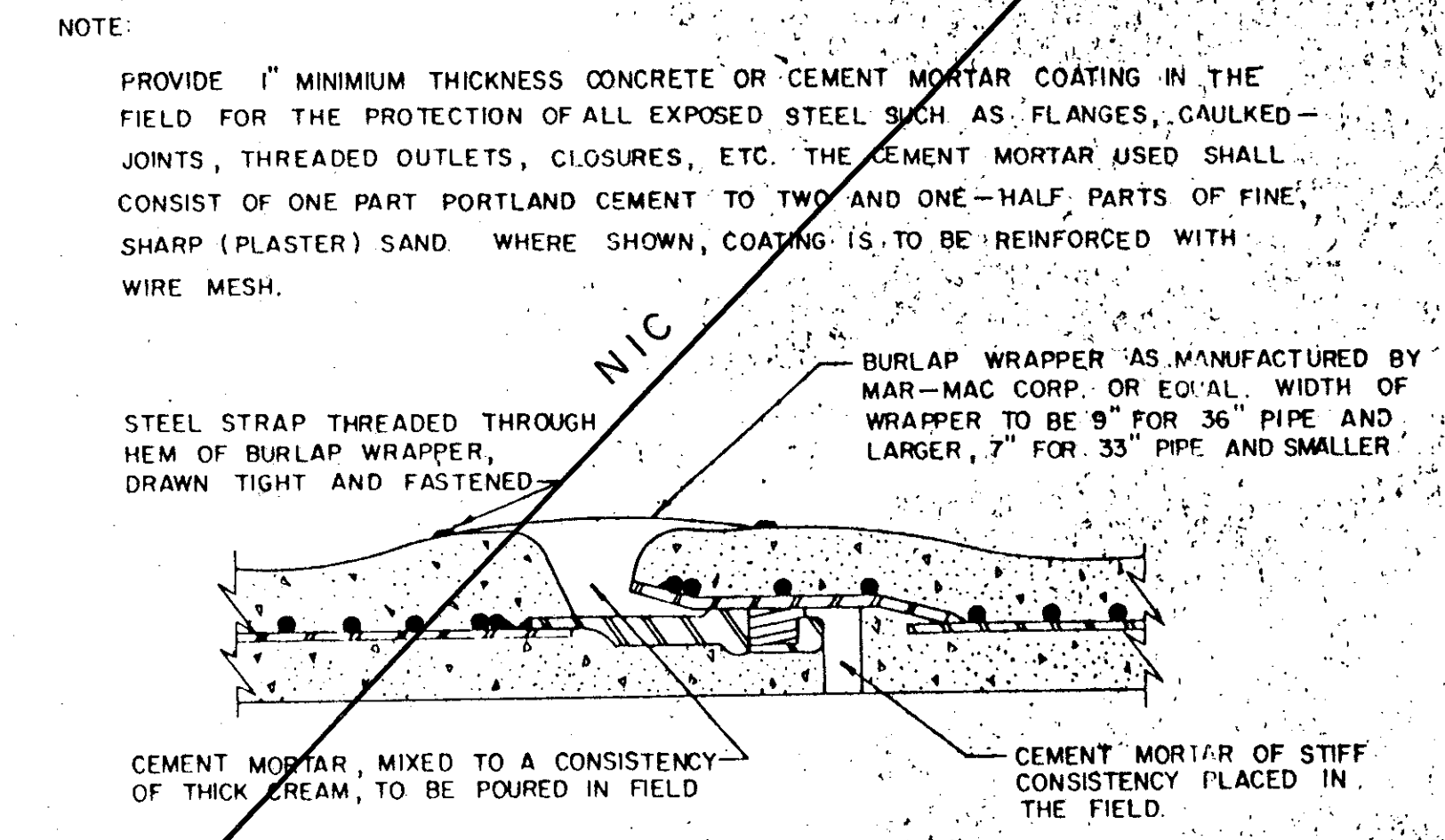
I.D. (IN.)	G FT.	EARTH			ROCK			I.D. (IN.)	G FT.	EARTH			ROCK				
		A	B	VOL. C.Y.	A	B	VOL. C.Y.			A	B	VOL. C.Y.	A	B	VOL. C.Y.		
4.68	2.1	5.6	3.0	2.0	0.3	2.0	1.8	0.2	4.68	2.7	7.1	5.0	1.5	0.4	2.0	2.0	0.2
10.12	3.1	12.6	5.5	2.5	0.8	3.5	2.0	0.4	10.12	4.0	16.0	8.5	2.8	1.0	3.8	2.5	0.5
16.18	4.7	28.3	7.5	4.0	1.9	5.0	3.0	0.9	16.18	6.0	36.0	8.0	4.0	2.4	4.8	4.0	1.0
20	5.2	34.9	9.0	4.0	2.3	5.5	3.5	1.2	20	6.6	44.4	10.0	4.5	3.1	6.0	4.0	1.5
24	6.2	50.3	11.5	4.5	3.5	6.5	4.0	1.6	24	7.9	64.0	14.5	4.5	5.0	8.0	4.0	2.1
30	7.8	58.9	12.0	5.0	4.8	7.5	4.0	2.2	30	9.9	75.0	15.0	5.0	6.7	10.0	4.0	3.3
36	9.4	84.9	14.5	6.0	8.2	9.5	4.8	3.8	36	11.9	108.0	18.0	6.0	11.4	12.0	4.5	5.3
42	10.9	115.5	17.0	7.0	12.8	11.0	5.5	6.3	42	13.9	147.0	21.0	7.0	17.8	14.0	6.5	6.7
48	12.5	150.9	19.0	8.0	18.4	13.0	6.0	9.2	48	15.9	192.0	24.0	8.0	26.2	16.0	8.0	12.4
54	14.0	191.0	21.5	9.0	26.0	15.0	6.5	12.9	54	17.9	243.0	27.0	9.0	36.9	18.0	7.0	18.1
60	15.8	235.8	24.0	10.0	36.4	16.0	7.5	17.6	60	19.9	298.8	30.0	10.0	50.3	20.0	7.5	24.0
66	17.1	285.3	26.5	11.0	46.0	18.0	8.0	23.0	66	21.8	362.8	33.0	11.0	66.2	22.0	8.5	32.5
72	18.7	339.5	29.5	12.0	57.8	19.0	9.0	28.4	72	23.8	431.8	36.0	12.0	85.6	24.0	9.0	41.0
78	20.2	398.5	31.0	13.0	73.7	21.0	9.5	37.4	78	25.7	506.7	39.0	13.0	108.2	26.0	10.0	53.2
84	21.8	462.1	33.5	14.0	94.7	22.0	10.5	46.5	84	27.7	587.7	42.0	14.0	134.4	28.0	10.5	64.8
90	23.3	530.5	35.5	15.0	114.4	24.0	11.0	58.2	90	29.0	674.6	45.0	15.0	164.9	30.0	11.5	81.2
96	24.9	603.6	38.0	16.0	138.9	25.0	12.0	70.0	96	31.6	767.5	48.0	16.0	199.0	32.0	12.0	95.1

**VERTICAL BEND THRUST BLOCK**

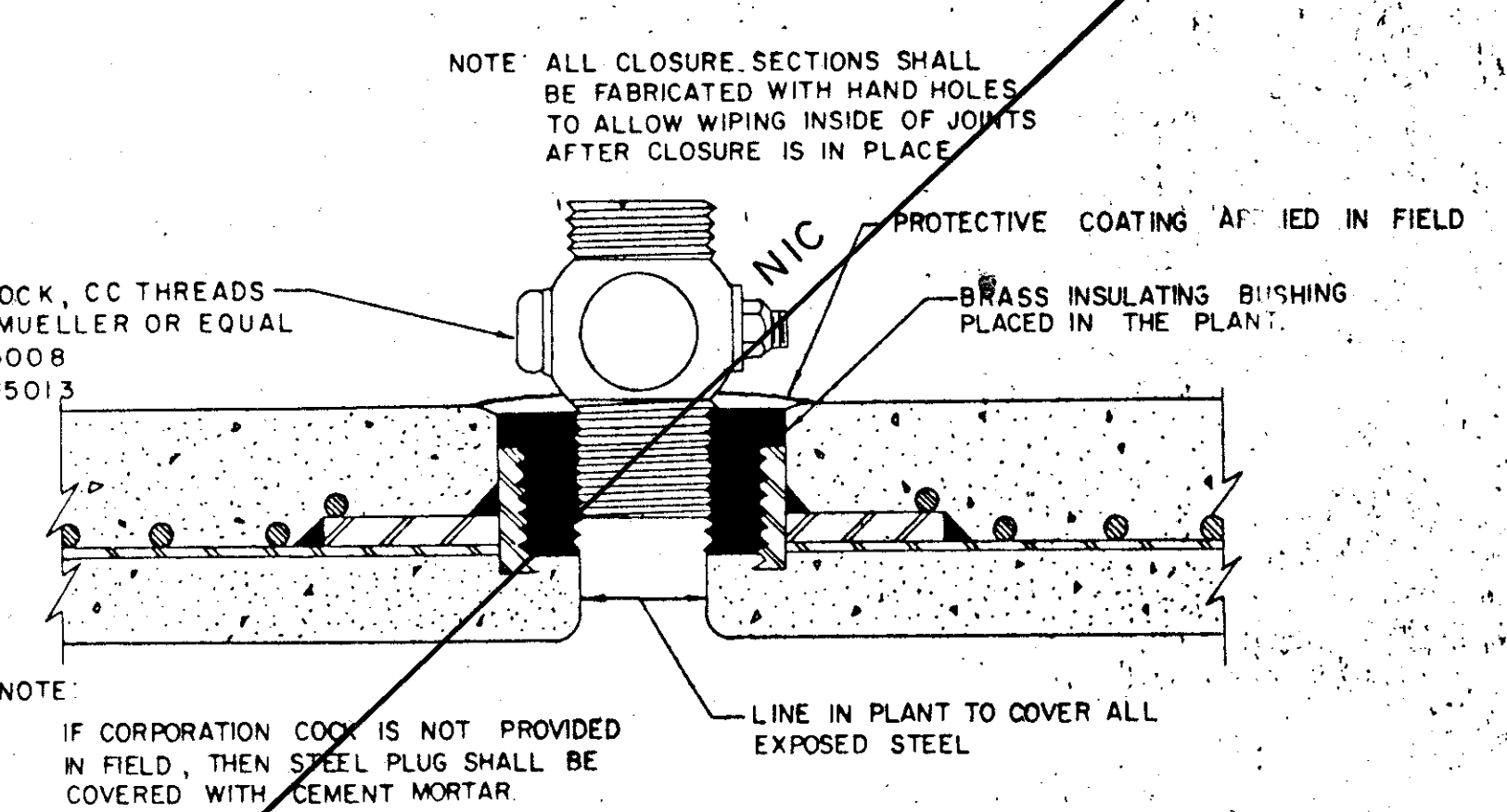


I.D. (IN.)	THRUST TONS	EARTH		ROCK		
		C FT.	VOL. C.Y.	A FT.	VOL. C.Y.	
4.68	5.1	1.5	2.5	0.3	2.0	0.2
10.12	11.3	1.5	3.5	0.6	2.5	0.3
16.18	25.5	2.0	5.5	1.6	4.0	0.9
20	31.5	2.0	6.0	1.7	4.0	0.9
24	45.2	2.5	7.0	2.1	5.0	1.1
30	53.0	3.0	7.5	2.1	5.5	1.2
36	74.3	4.0	9.0	2.7	6.5	1.4
42	104.0	4.5	10.5	3.0	7.5	1.6
48	136.0	5.0	12.0	3.5	8.5	1.8
54	172.0	5.5	13.5	4.0	9.5	2.1
60	212.0	6.0	15.0	4.5	10.5	2.4
66	257.0	6.5	16.5	4.5	11.5	2.5
72	303.0	7.5	17.5	4.7	12.5	2.7
78	358.0	8.0	19.0	5.0	13.5	3.0
84	416.0	8.5	20.5	5.3	14.5	3.2
90	477.0	9.0	22.0	5.7	15.5	3.4
96	543.0	9.5	23.5	6.0	16.5	3.6

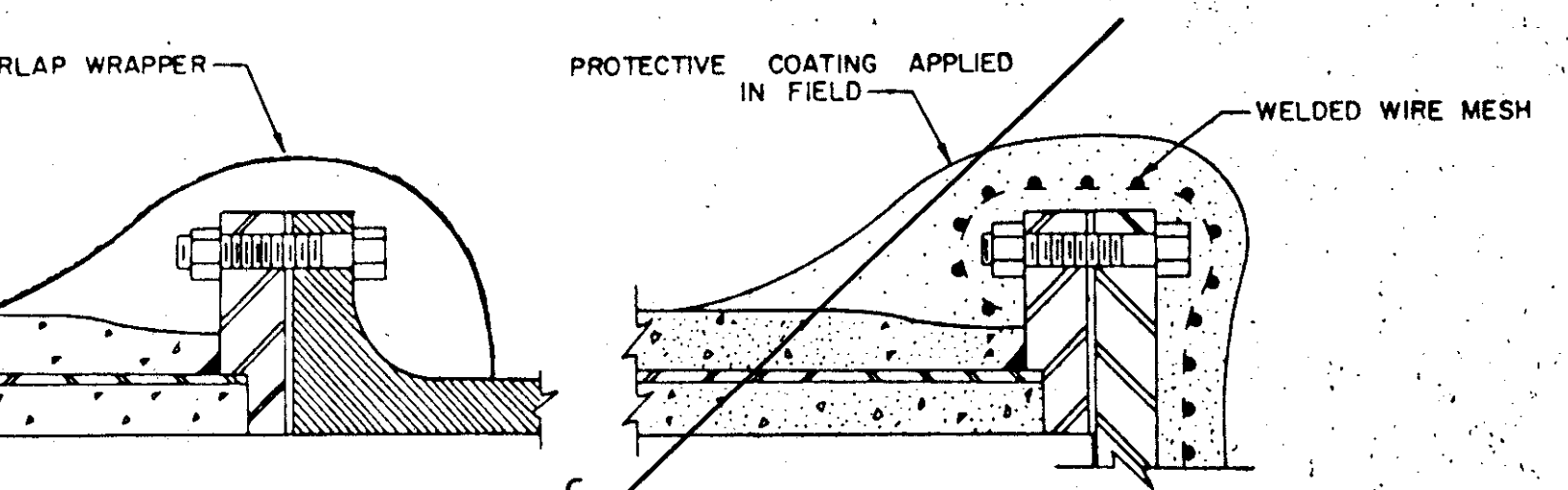
**PLUG & TEE THRUST BLOCK**



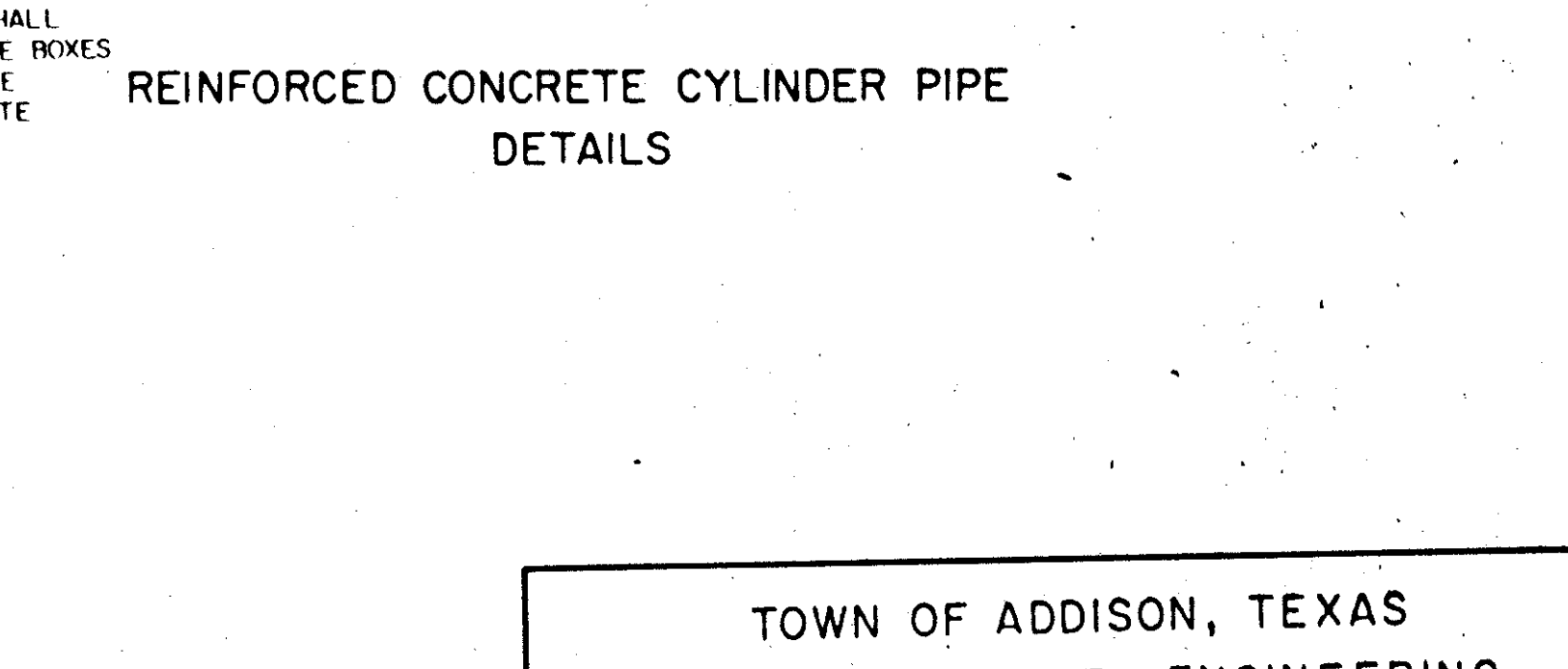
**STANDARD RUBBER GASKET JOINT**



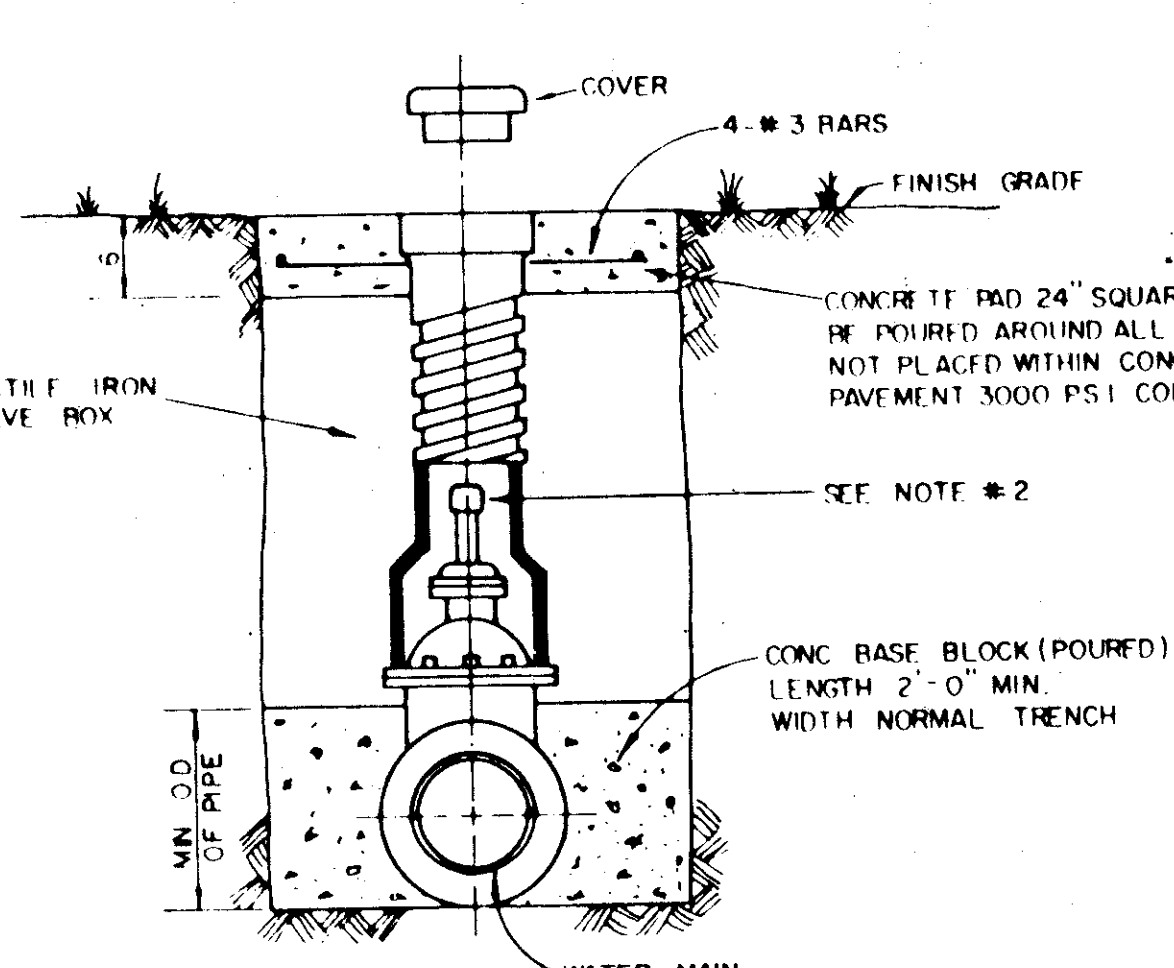
**THREADED CONNECTION**



**FLANGED CONNECTIONS**



**REINFORCED CONCRETE CYLINDER PIPE DETAILS**



**TYPICAL VALVE SETTING AND BOX**

NOTE: 1. GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C-509-80 OR LATEST THEREOF. ALL VALVES SHALL BE "MUELLER" OR APPROVED EQUAL.

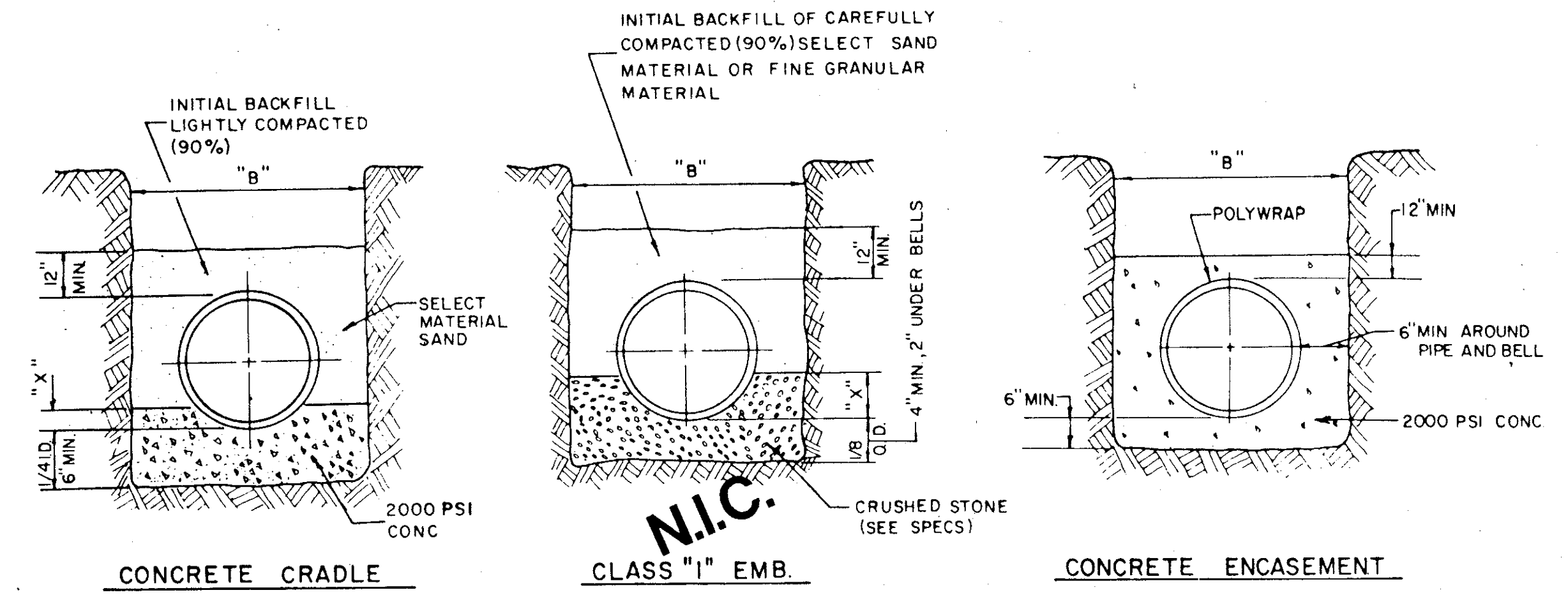
2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE THATS OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4" OF VALVE BOX LID. MANUFACTURED VALVE STACK DUCTILE IRON PIPE TO BE USED FOR EXTENSION GREATER THAN 4'-0" BELL END OF STACK TO BE FITTED OVER VALVE. VALVE AND VALVE STACK IS TO BE POLY WRAPPED.

3. VALVES SHALL BE OF DUCTILE IRON W/RUBBER ENCAPSULATED DISK BODY BOLTS SHALL BE STAINLESS STEEL OF SAME SIZE ON EACH VALVE.

TOWN OF ADDISON, TEXAS  
DEPARTMENT OF ENGINEERING



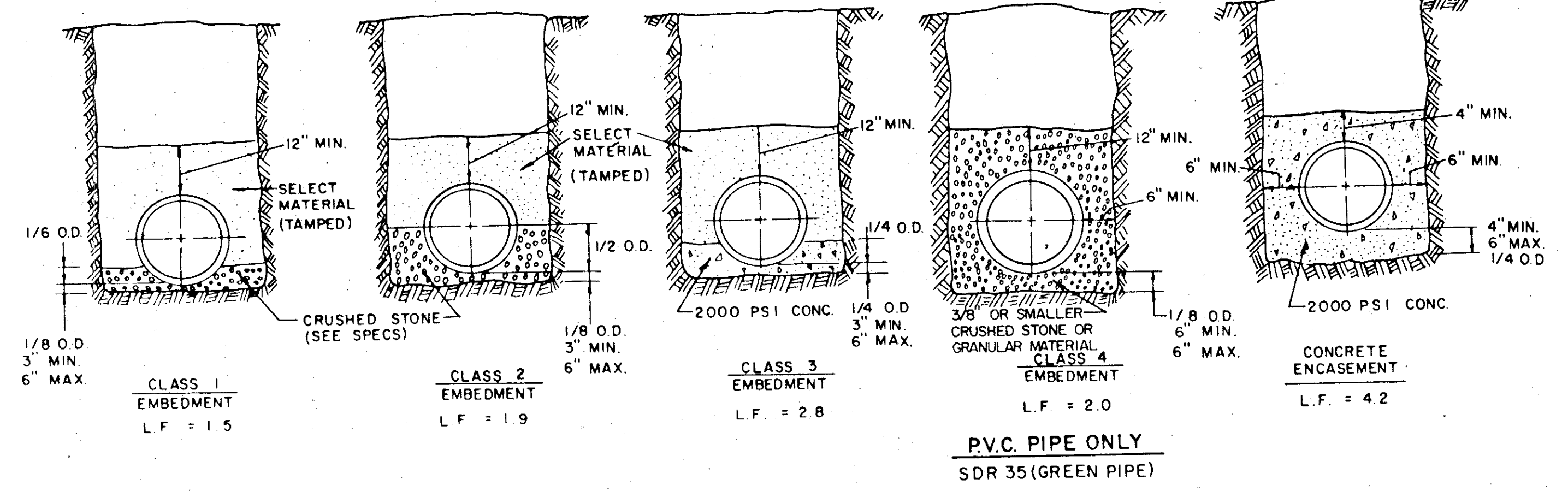
TYPICAL NATIVE MATERIAL COMPACTED TO:  
 95% OPTIMUM MOISTURE 0' TO ±3% UNDER PAVEMENT  
 95% OPTIMUM MOISTURE 0' TO ±3% OUTSIDE CURB LINES  
 JETTING IS NOT ALLOWED  
 BACKFILL TO BE COMPACTED IN 6"± LIFTS



**EMBEDMENT DETAILS FOR RCPC WATERLINE**

TABLE OF QUANTITIES OF MATERIALS IN CUBIC YARDS PER 100 LINEAR FEET

INSIDE DIAMETER OF PIPE	APPROX OUTSIDE DIAMETER OF PIPE	IS A MINIMUM DEPTH	TRENCH WIDTH FOR COMPUTATION OF QUANTITIES	CONCRETE		CRUSHED STONE FOR CLASS 1 EMBEDMENT
				FOR EMBEDMENT	FOR ENCASEMENT	
N.I.C. REINFORCED CONCRETE CYLINDER PIPE						
14"	17.25"	2.53'	34"	6.91	16.07	5.16
16"	19.28"	2.84'	36"	7.50	17.76	5.64
18"	21.78"	3.19'	38"	8.11	19.52	6.16
24"	27.75"	4.06'	44"	9.97	24.90	9.28

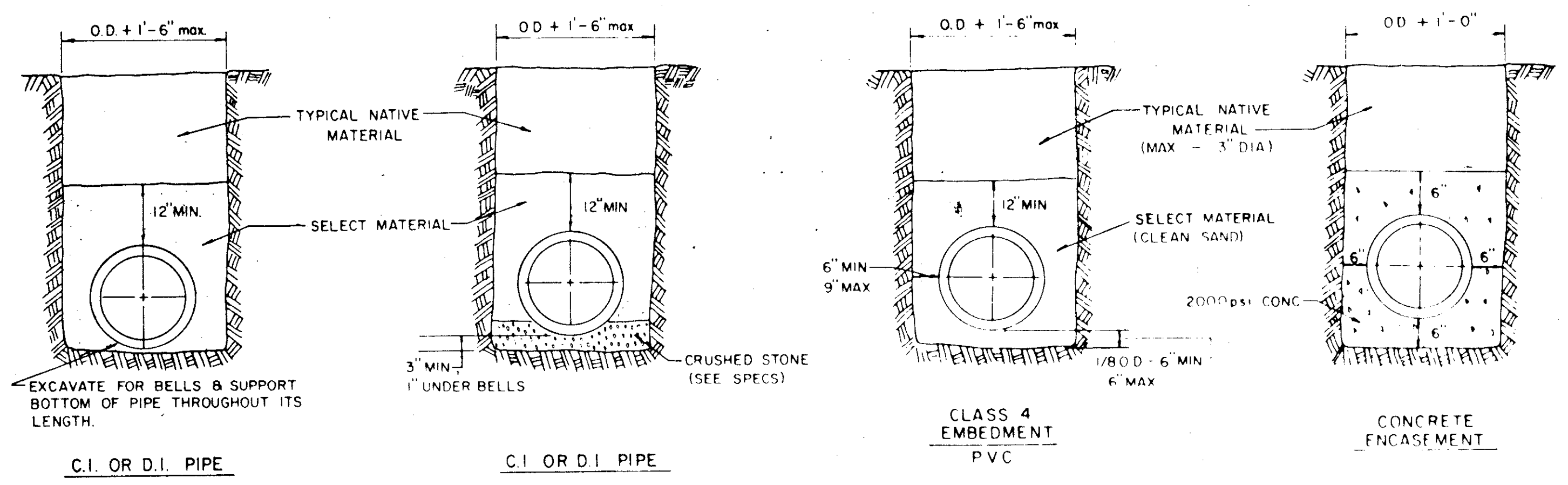


**EMBEDMENT DETAILS FOR SANITARY SEWER**

TABLE OF QUANTITIES OF 2000 PSI CONCRETE, GRAVEL OR CRUSHED STONE IN CUBIC YARDS PER 100 LINEAR FEET FOR EACH CLASS EMBEDMENT

TABLE OF QUANTITIES PER 100 LINEAR FEET REINFORCED CONCRETE PIPE

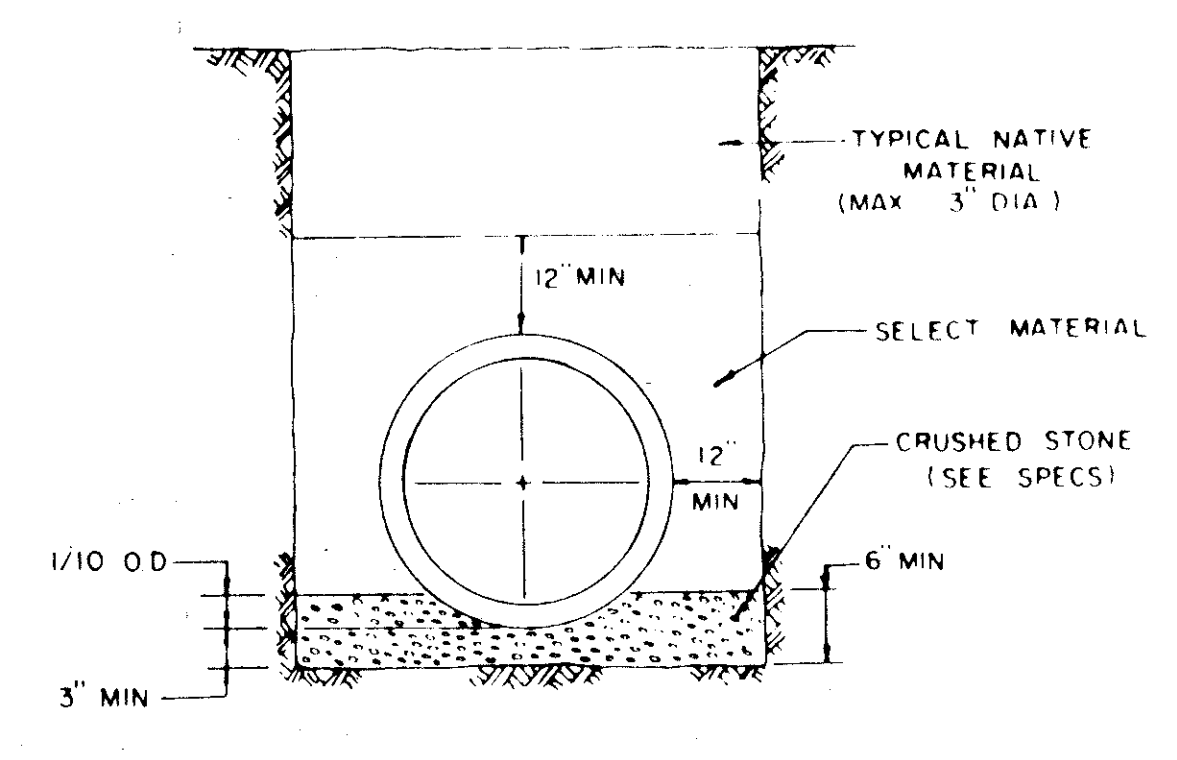
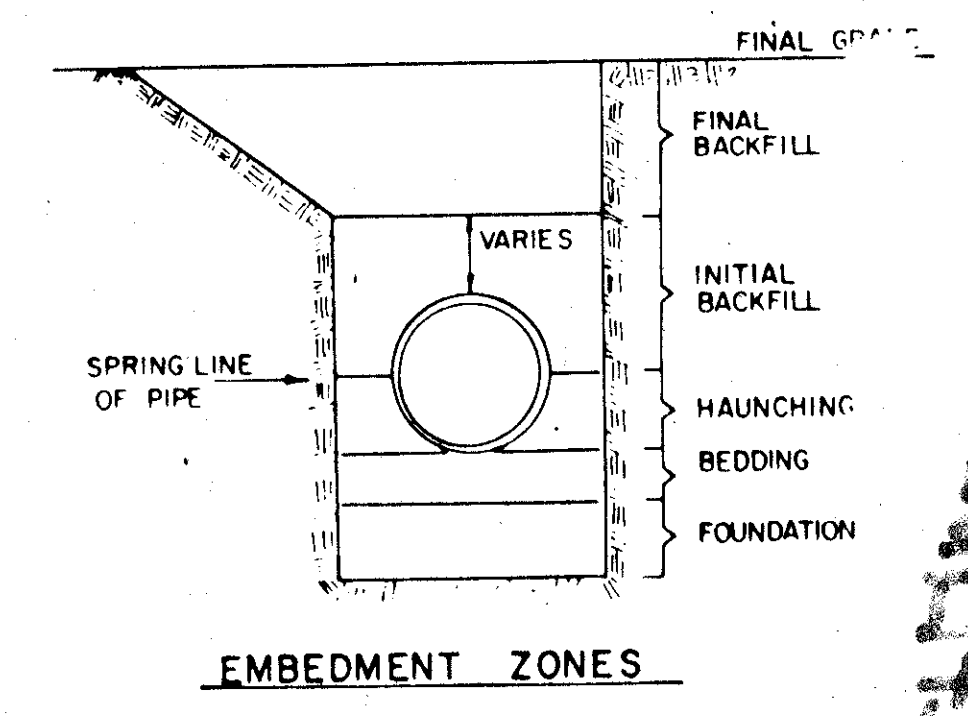
SIZE OF PIPE IN INCHES I.D.	O.D. OF PIPE IN INCHES	TRENCH WIDTH IN INCHES	TRENCH WIDTH IN FEET	CLASS 1 EMBEDMENT CRUSHED STONE	CLASS 2 EMBEDMENT CRUSHED STONE	CLASS 3 EMBEDMENT CONCRETE	CONCRETE ENCASEMENT
12	16.00	32	2.67	4.1	6.5	4.8	15.8
15	19.50	36	3.00	4.8	7.8	6.4	19.2
18	23.00	39	3.25	5.7	9.2	8.2	21.2
21	26.50	43	3.58	6.9	11.0	10.2	24.9
24	30.00	46	3.83	8.3	13.1	12.4	28.7
27	33.50	51	4.25	10.3	16.1	14.4	32.8
30	37.00	57	4.75	12.7	20.1	17.0	34.8
33	40.50	62	5.17	15.1	23.8	19.3	39.2
36	44.00	67	5.58	18.0	28.6	22.1	43.8



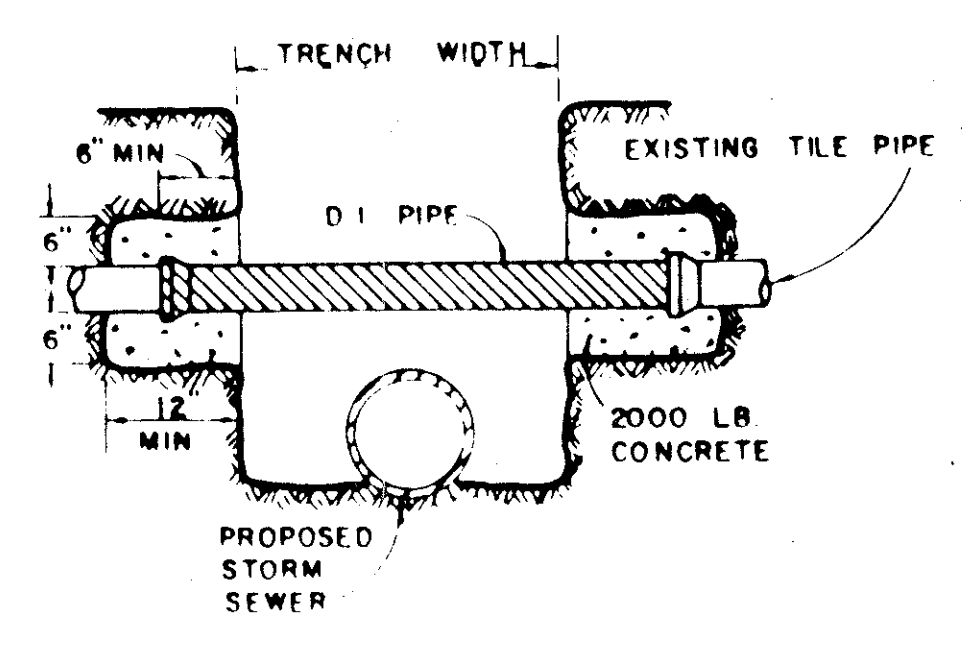
**EMBEDMENT DETAILS FOR WATER MAIN**

TABLE OF QUANTITIES PER 100 LINEAR FEET - PVC PIPE (IN CUBIC YARDS)

SIZE OF PIPE IN INCHES	O.D. OF PIPE IN INCHES	TRENCH WIDTH IN INCHES	TRENCH WIDTH IN FEET	CLASS 4 EMBEDMENT CRUSHED STONE	CONCRETE ENCASEMENT
6	6.28	24	2.00	8.0	11.7
8	8.16	24	2.00	8.7	12.4
10	10.20	26	2.18	10.2	14.2
12	12.24	28	2.35	11.7	15.9
16	15.30	31	2.61	14.0	18.8
24		36	3.0		
30		42	3.5		



**EMBEDMENT DETAIL FOR STORM SEWER**



**DETAIL OF UTILITY SUPPORT**

TOWN OF ADDISON, TEXAS  
 DEPARTMENT OF ENGINEERING

STANDARD CONSTRUCTION DETAILS

EMBEDMENT DETAILS

Designed - Drawn - Date - Job No -  
 Approved - Checked - Scale - Sheet SD 6

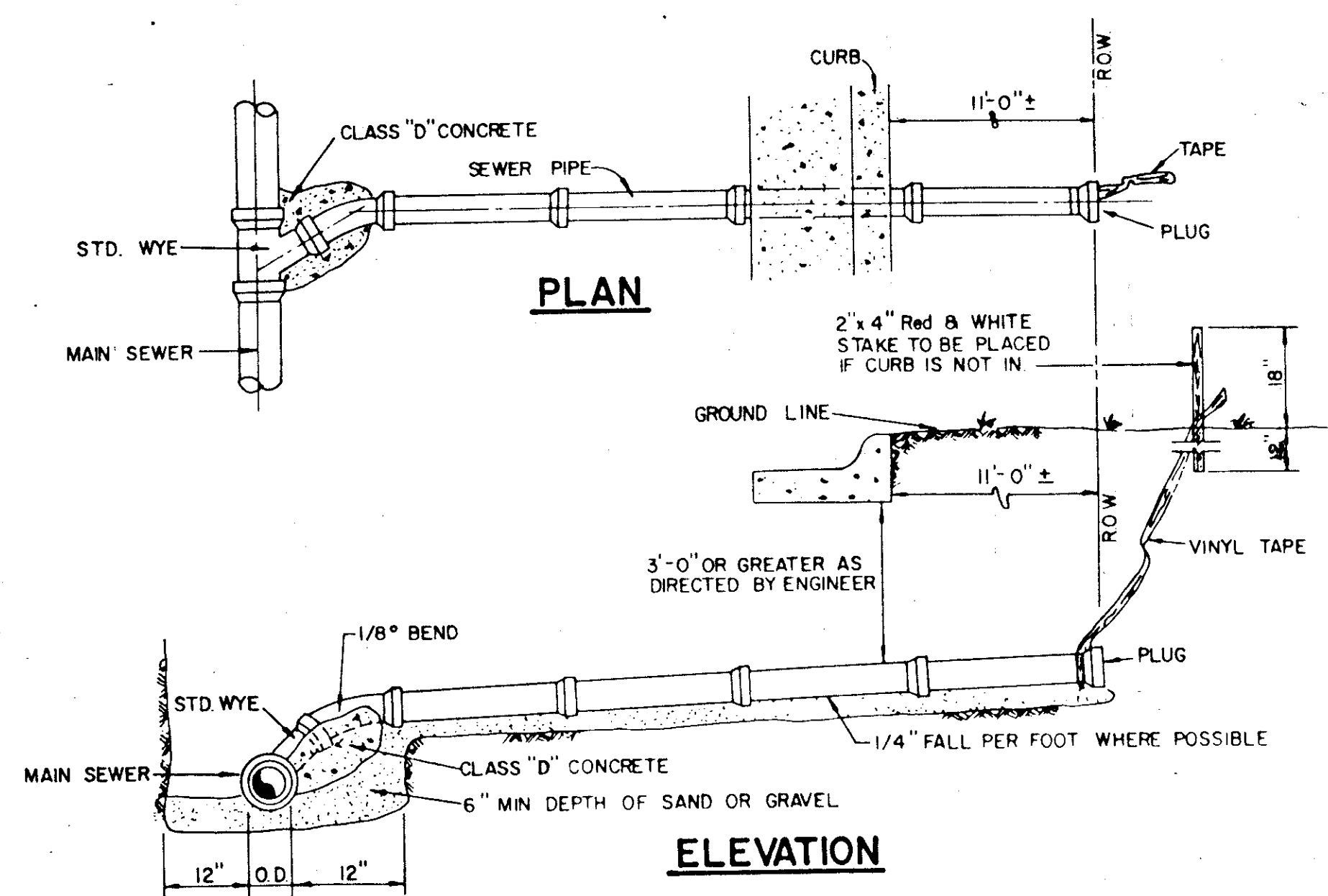




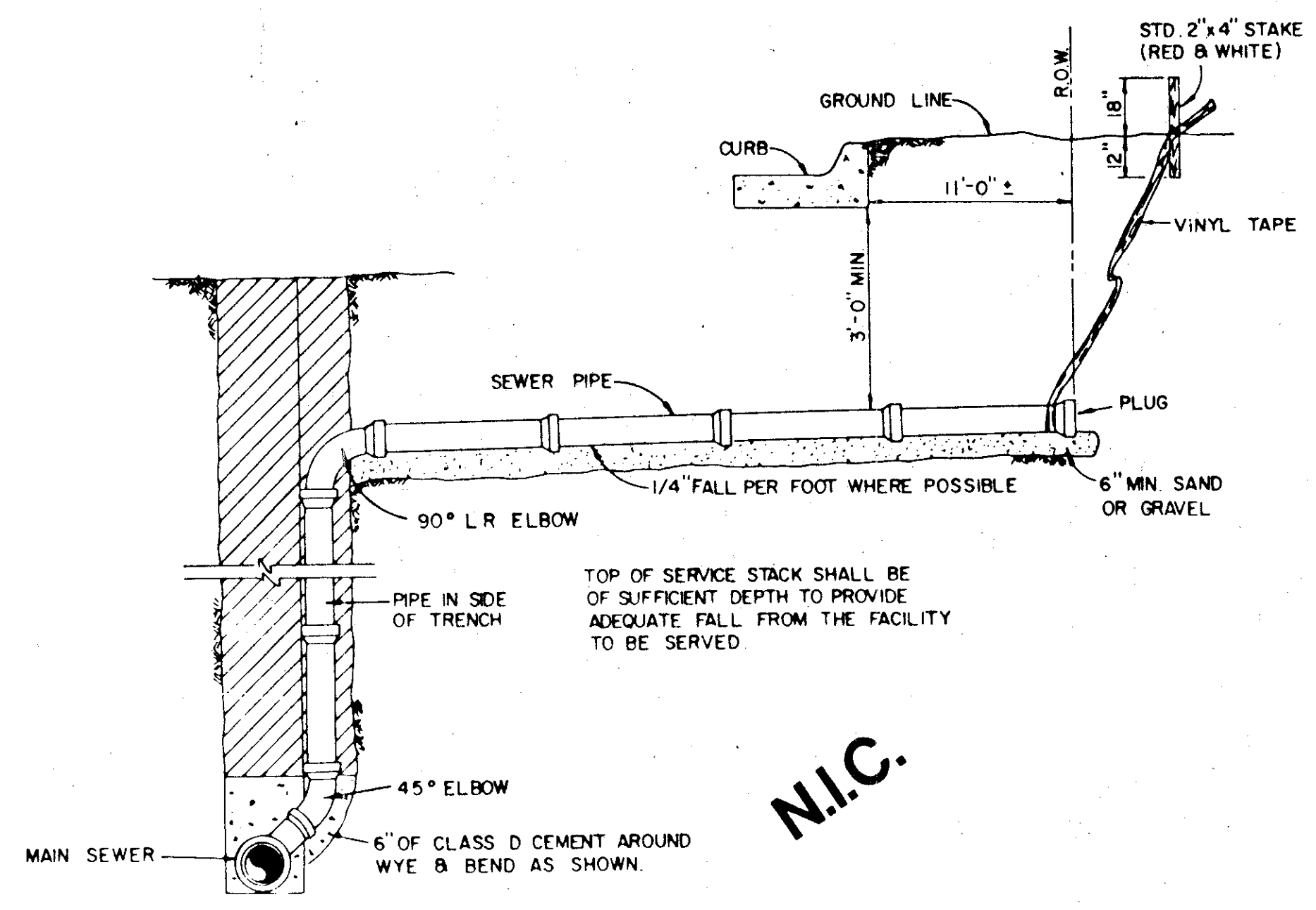




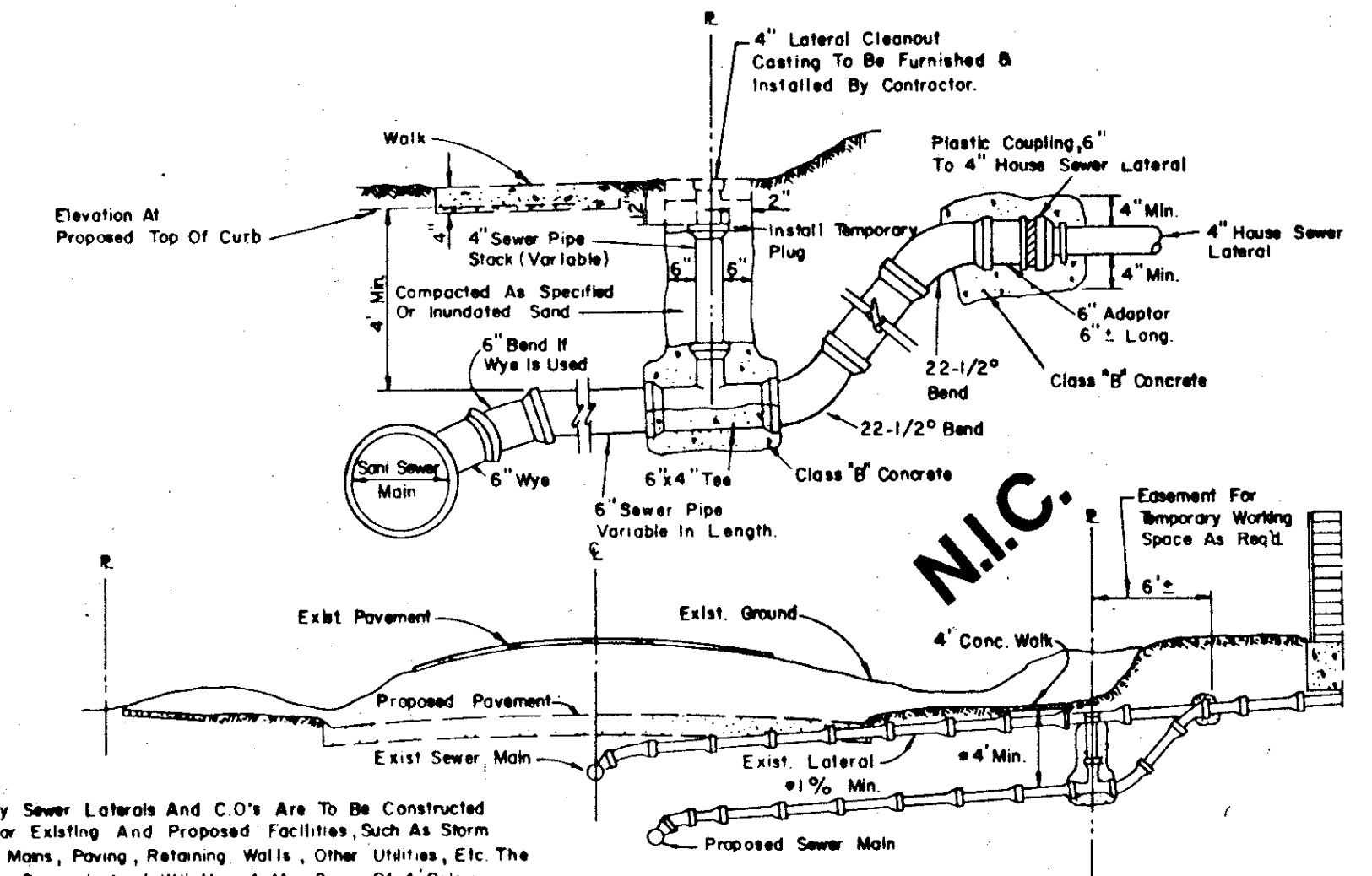




**SANITARY SEWER SERVICE CONNECTION**

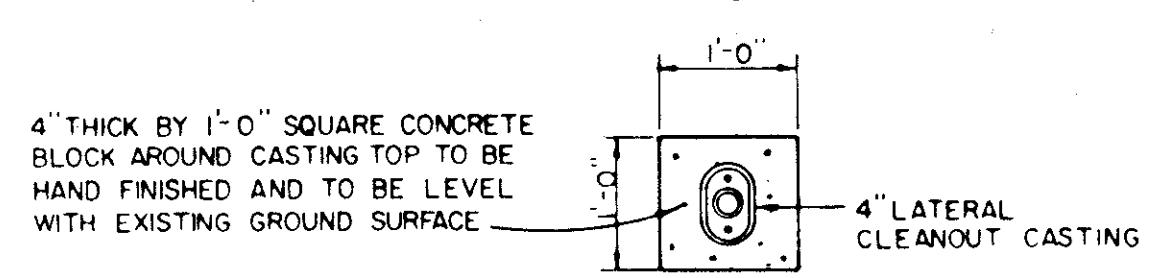


**SANITARY SEWER DEEP SERVICE CONNECTION**

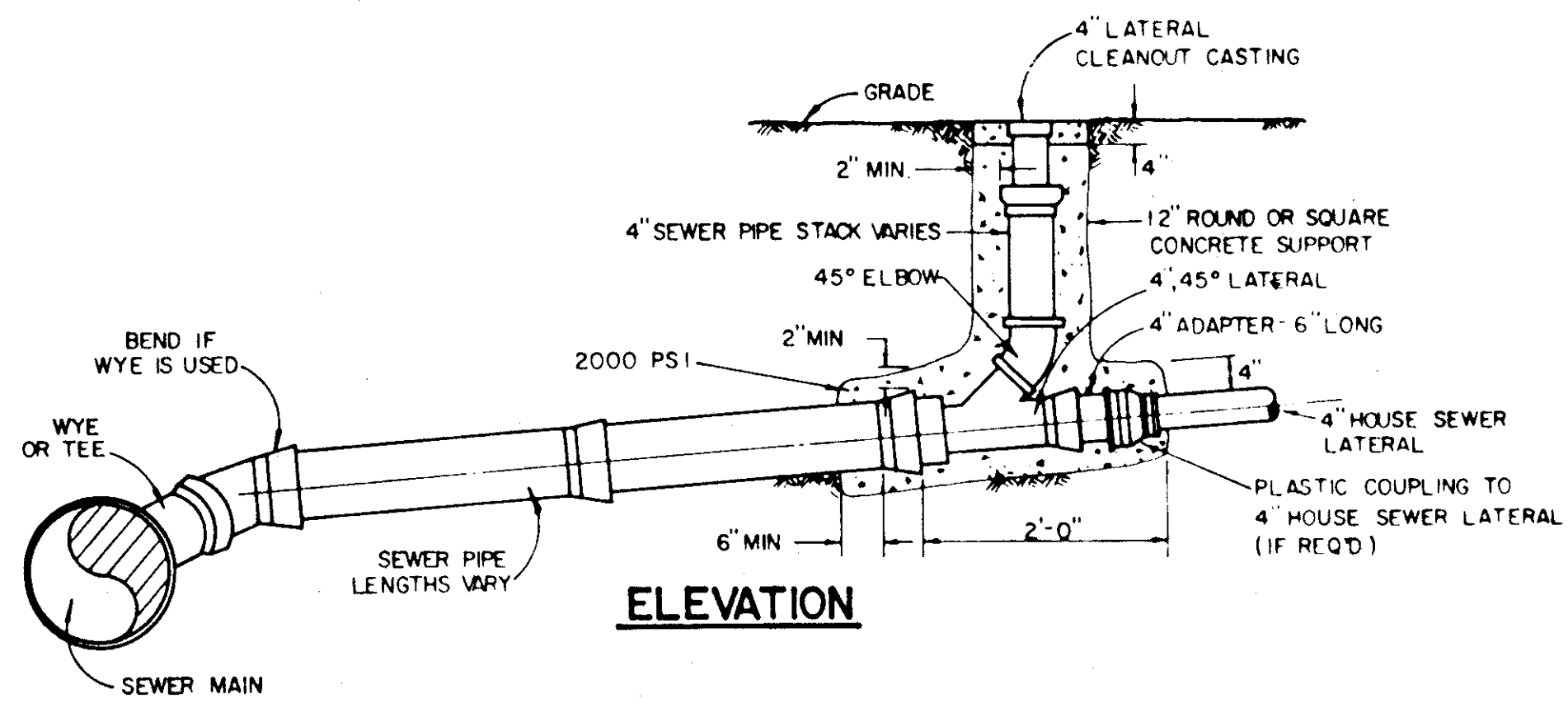


**SANITARY SEWER LATERAL REPLACEMENT**

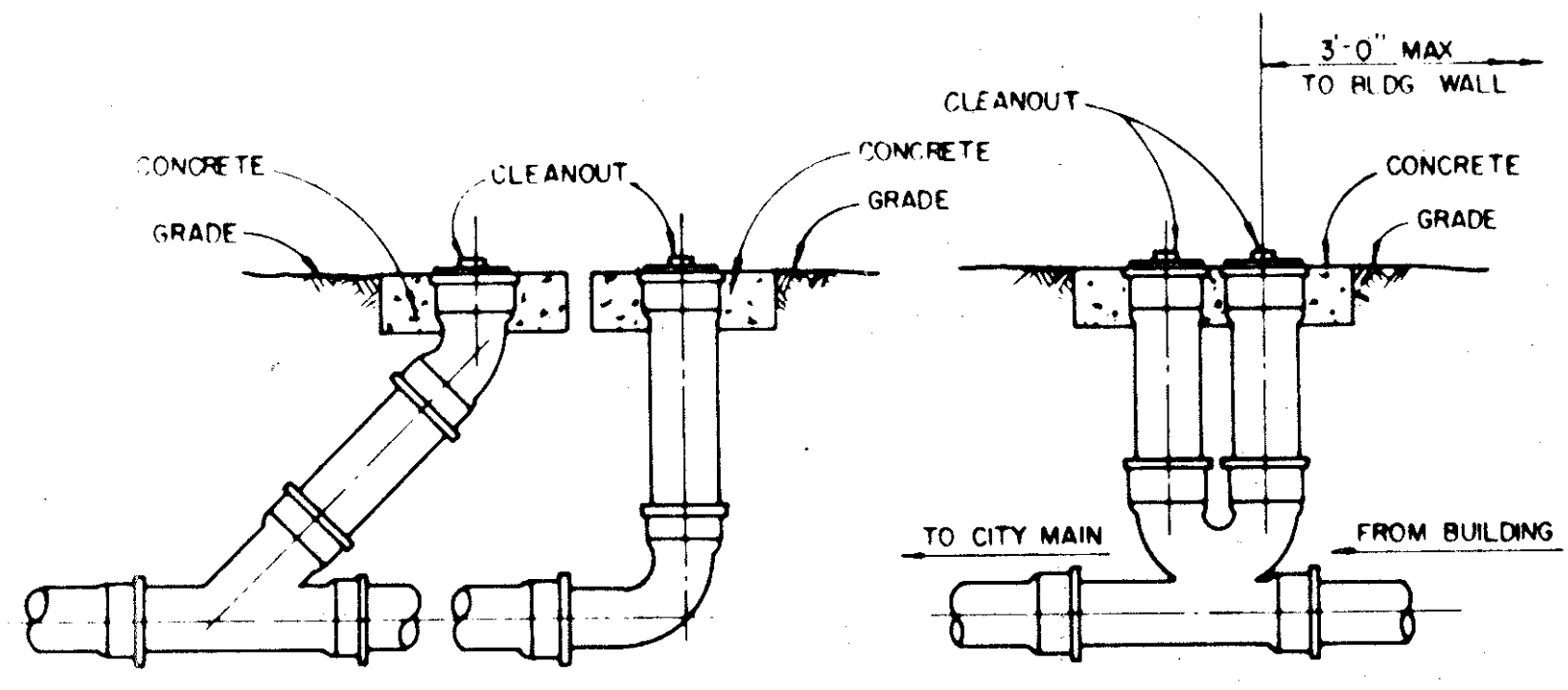
NOTE:  
Cleanout To Be Installed On Property Line Except As Required To Avoid Conflict With Existing Or Proposed Facilities In Which Case The Location Shall Be Determined By The Engineer.



**PLAN**



**ELEVATION**

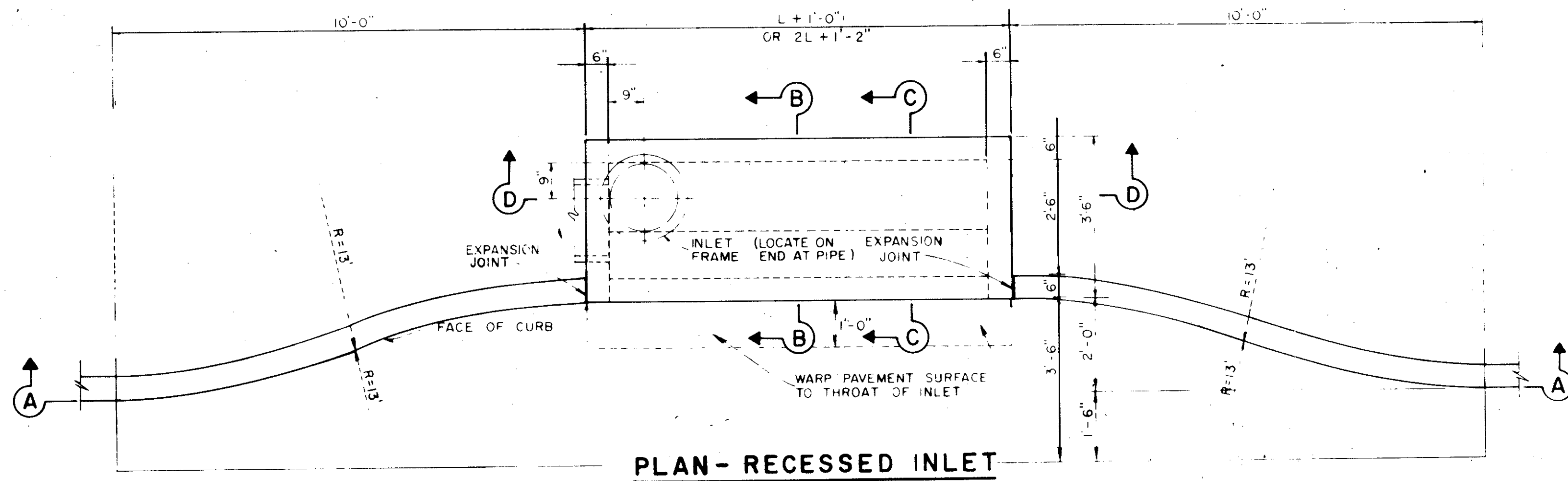


**TYPICAL CLEANOUTS**

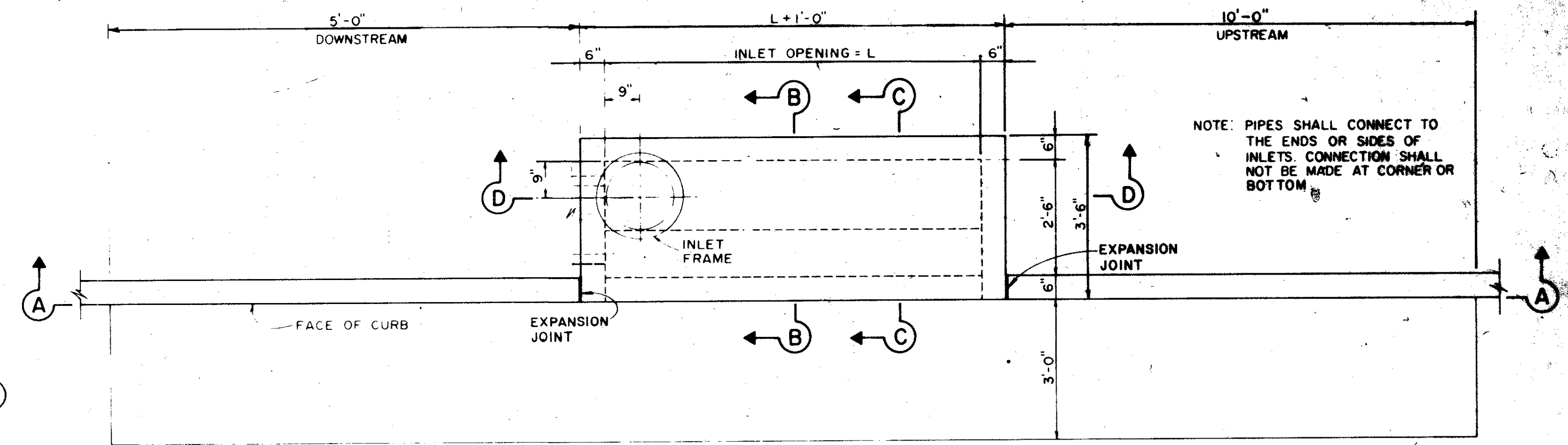
ALL PVC SANITARY SEWER PIPE TO BE SDR 35 WITH INTEGRAL BELL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE HORIZONTALLY EACH 4" SERVICE IN RELATION TO THE SANITARY SEWER STATIONING. FIELD TIES ARE TO BE INCLUDED AND RECORDED ON ALUMINIZED SANITARY SEWER TAPE. THIS TAPE, GREEN OR RED IN COLOR IS TO BE ATTACHED TO THE 4" SERVICE AT THE ROW LINE AND BROUGHT TO THE SURFACE TO BE USED AS A PERMANENT MARKER.

TOWN OF ADDISON, TEXAS			
DEPARTMENT OF ENGINEERING			
STANDARD CONSTRUCTION DETAILS			
SANITARY SEWER			
LATERALS AND CLEANOUTS			
Designed -	Drawn -	Date -	Job No. -
Approved -	Checked -	Scale -	Sheet SD-2A



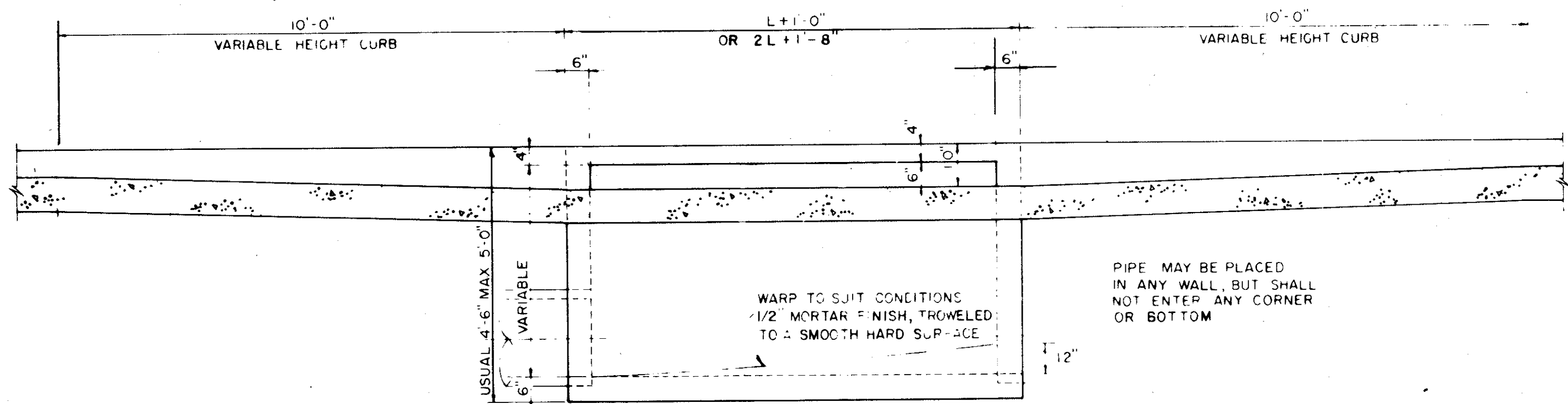


PLAN - RECESSED INLET



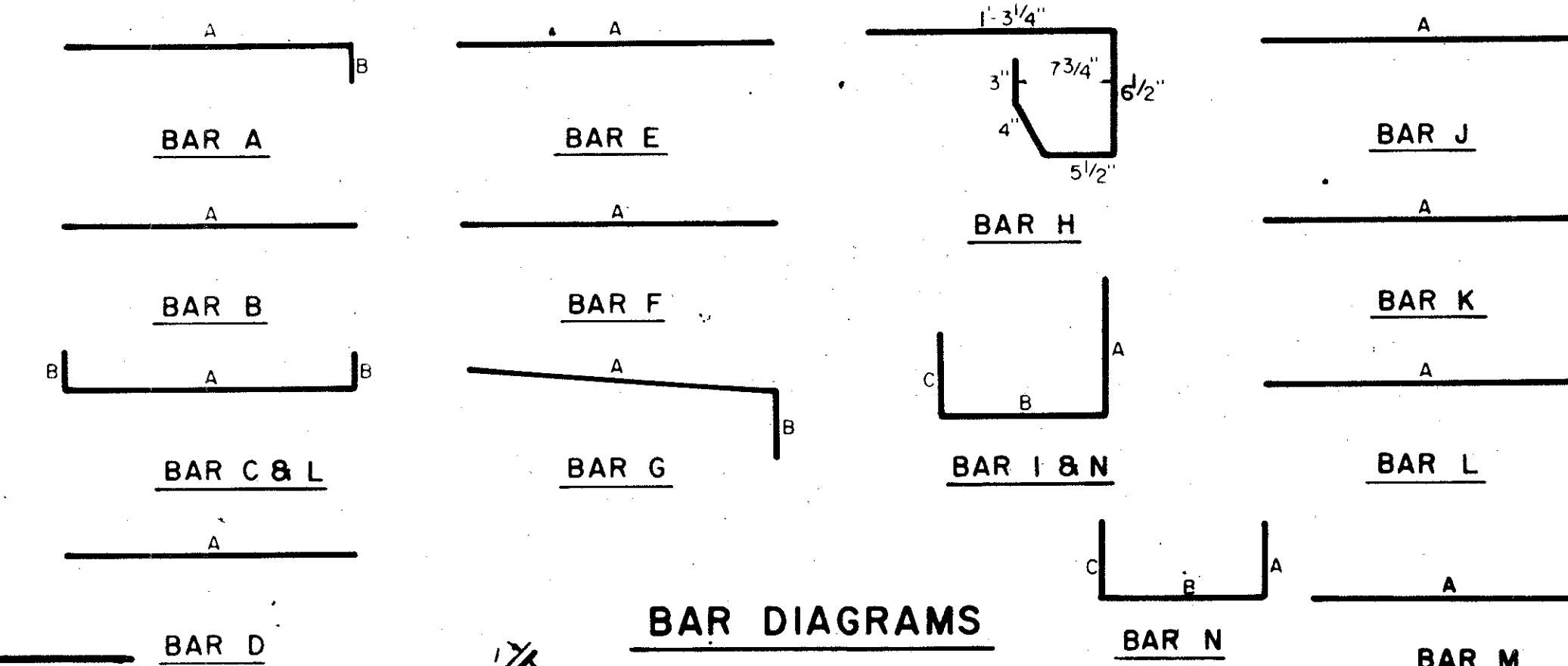
PLAN - STANDARD INLET

NOTE: PIPES SHALL CONNECT TO THE ENDS OR SIDES OF INLETS. CONNECTION SHALL NOT BE MADE AT CORNER OR BOTTOM.



SECTION A-A - RECESSED AND STANDARD INLETS

4, 6, 8 AND 10 FOOT INLETS



BAR DIAGRAMS

REINFORCING STEEL SCHEDULE

DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLETS

INLET LENGTH	BAR TYPE	BAR DIA. (1/8" IN.)	NO. REQ'D	BAR DIMENSIONS		
				A	B	C
4	A	3	6	3'-2"	0'-3"	-
	B	3	1	2'-10"	-	-
	C	4	15	4'-8"	0'-6"	-
	D	4	5	4'-8"	-	-
	F	4	1	3'-2"	-	-
	G	3	5	2'-0"	1'-3"	-
6	H	3	3	*	*	*
	N	3	3	3'-2"	3'-2"	3'-2"
	A	3	9	3'-2"	0'-3"	-
	B	3	1	4'-10"	-	-
	C	4	15	6'-8"	0'-6"	-
	D	4	5	4'-8"	-	-
8	F	4	1	3'-2"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	3	*	*	*
	N	3	3	3'-2"	3'-2"	3'-2"
	A	3	12	3'-2"	0'-3"	-
	B	3	1	6'-10"	-	-
10	C	4	15	8'-8"	0'-6"	-
	D	4	5	4'-8"	-	-
	F	4	1	3'-2"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	3	*	*	*
	I	4	8	4'-8"	3'-2"	3'-2"

\* SEE DIAGRAM FOR DIMENSIONS. 4, 6, 8 AND 10' INLETS

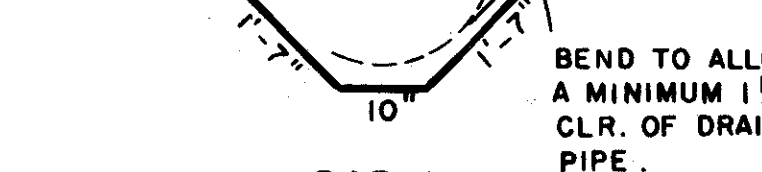
REINFORCING STEEL SCHEDULE

DOUBLE INLETS

DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLETS

INLET LENGTH	BAR TYPE	BAR DIA. (1/8" IN.)	NO. REQ'D	BAR DIMENSIONS		
				A	B	C
6 FT.	A	3	15	3'-2"	0'-6"	-
	B	3	2	11'-6"	-	-
	C	4	16	13'-4"	0'-6"	-
	D	4	9	4'-8"	-	-
	E	5	6	13'-4"	-	-
	F	4	5	1'-2"	-	-
	G	3	15	2'-0"	1'-3"	-
	H	3	26	*	*	*
	I	4	12	4'-8"	3'-2"	3'-2"
	J	5	1	3'-2"	-	-
	K	4	11	3'-2"	0'-6"	-
	L	4	2	3'-0"	-	-
	M	4	2	4'-8"	3'-2"	4'-8"
	N	4	2	4'-8"	3'-2"	4'-8"
7 FT.	A	3	17	3'-2"	0'-6"	-
	B	3	2	13'-6"	-	-
	C	4	16	15'-4"	0'-6"	-
	D	4	9	4'-8"	-	-
	E	5	6	15'-4"	-	-
	F	4	5	1'-2"	-	-
	G	3	15	2'-0"	1'-3"	-
	H	3	32	*	*	*
	I	4	14	4'-8"	3'-2"	3'-2"
	J	5	1	3'-2"	-	-
	K	4	11	3'-2"	0'-6"	-
	L	4	2	3'-0"	-	-
	M	4	2	4'-8"	3'-2"	4'-8"
	N	4	2	4'-8"	3'-2"	4'-8"
8 FT.	A	3	19	3'-2"	0'-6"	-
	B	3	2	15'-6"	-	-
	C	4	16	17'-4"	0'-6"	-
	D	4	9	4'-8"	-	-
	E	5	6	17'-4"	-	-
	F	4	5	1'-2"	-	-
	G	3	12	2'-0"	1'-3"	-
	H	3	28	4'-8"	3'-2"	3'-2"
	I	4	1	3'-2"	-	-
	J	5	6	3'-2"	0'-6"	-
	K	4	11	3'-2"	0'-6"	-
	L	4	2	3'-0"	-	-
	M	4	2	4'-8"	3'-2"	4'-8"
	N	4	2	4'-8"	3'-2"	4'-8"
10 FT.	A	3	23	3'-2"	0'-6"	-
	B	3	2	19'-6"	-	-
	C	4	16	21'-4"	0'-6"	-
	D	4	9	4'-8"	-	-
	E	5	6	21'-4"	-	-
	F	4	5	1'-2"	-	-
	G	3	15	2'-0"	1'-3"	-
	H	3	32	4'-8"	3'-2"	3'-2"
	I	4	1	3'-2"	-	-
	J	5	6	3'-2"	0'-6"	-
	K	4	11	3'-2"	0'-6"	-
	L	4	2	3'-0"	-	-
	M	4	2	4'-8"	3'-2"	4'-8"
	N	4	2	4'-8"	3'-2"	4'-8"

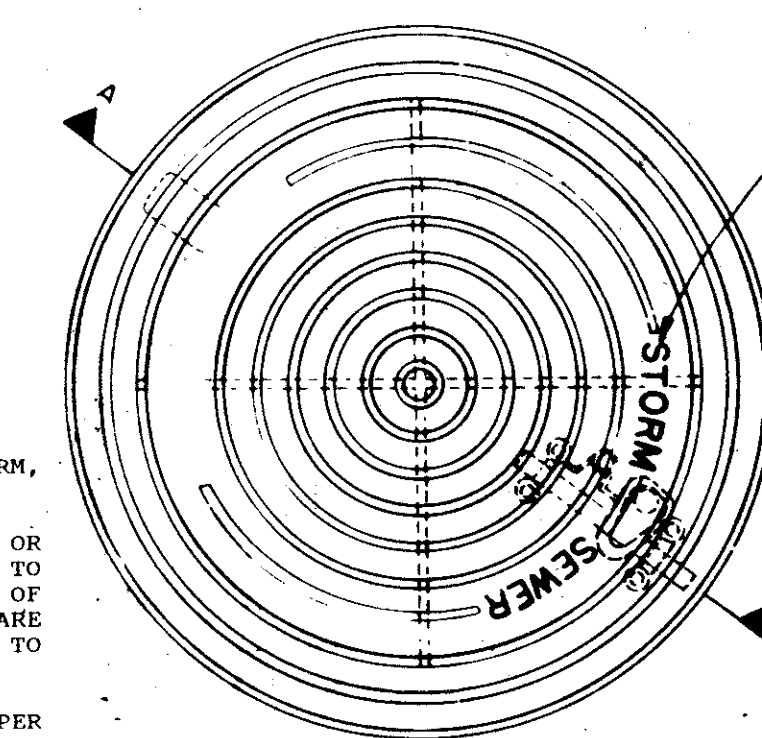
\* SEE DIAGRAM FOR DIMENSIONS  
\*\* FIELD CUT AS REQ'D TO ACCOMMODATE DRAIN PIPE.  
12', 14', 16 AND 20' INLETS



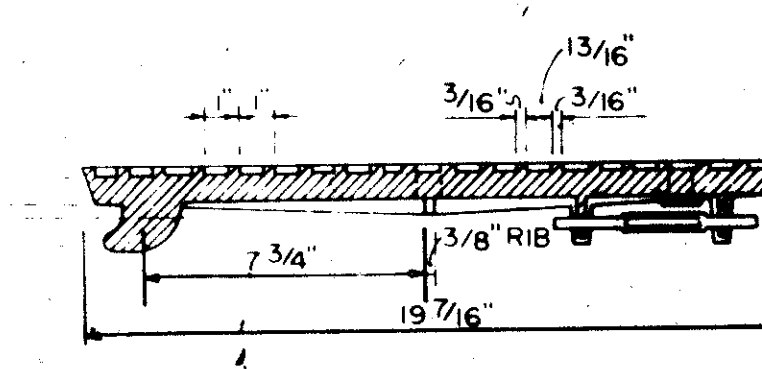
BAR DIAGRAMS

NOTES FOR PRECAST INLET

- THE FLOOR OF THE EXCAVATION MUST PROVIDE FIRM, LEVEL BED FOR THE BASE SECTION TO REST UPON.
- A MINIMUM OF 6" OF 1" DIAMETER (MAXIMUM) ROCK OR GRAVEL SHALL BE USED TO PREPARE THE BEDDING TO FINAL GRADE OR IN LIEU OF THIS THAT AT LEAST 6" OF 2 SACK CEMENT STABILIZED SAND BE USED TO PREPARE THE BEDDING TO GRADE. CEMENT STABILIZED SAND TO BE ALLOWED TO SET BY KEEPING HOLE PUMPED DRY.
- AFTER CASTING HAS BEEN INSTALLED ON THE PROPER BEDDING, THE BACKFILL MATERIAL, WHICH IS FREE FLOWING AND CLEAR OF ROCKS, IN EXCESS OF 4" DIAMETER AND OTHER LUMPS WHICH WOULD PROHIBIT PROPER COMPACTION, SHALL BE COMMENCED IN LEFTS OF NO MORE THAN 18". THE MATERIAL USED FOR BACKFILL SHOULD BE OF A TYPE SUITABLE TO OBTAIN THE DENSITY REQUIREMENTS FOR THE SPECIFIC JOB.

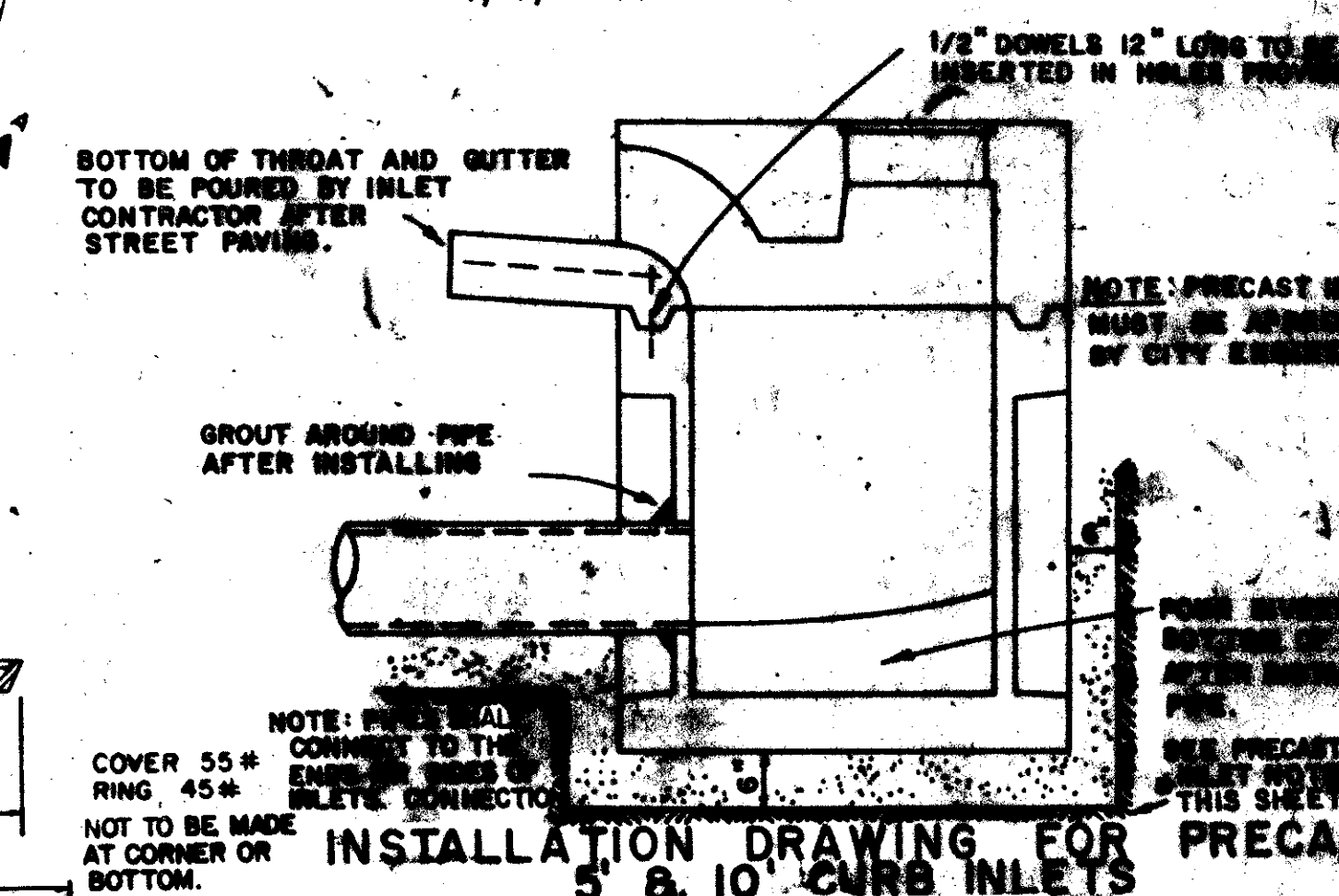


PLAN OF FRAME

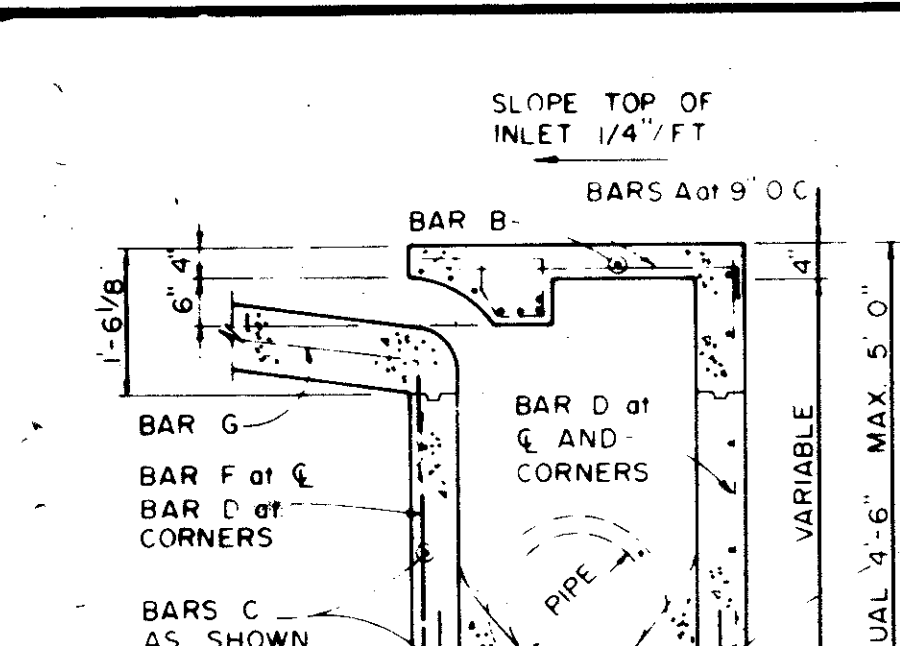


SECTION OF FRAME AND COVER

INLET FRAME AND COVER

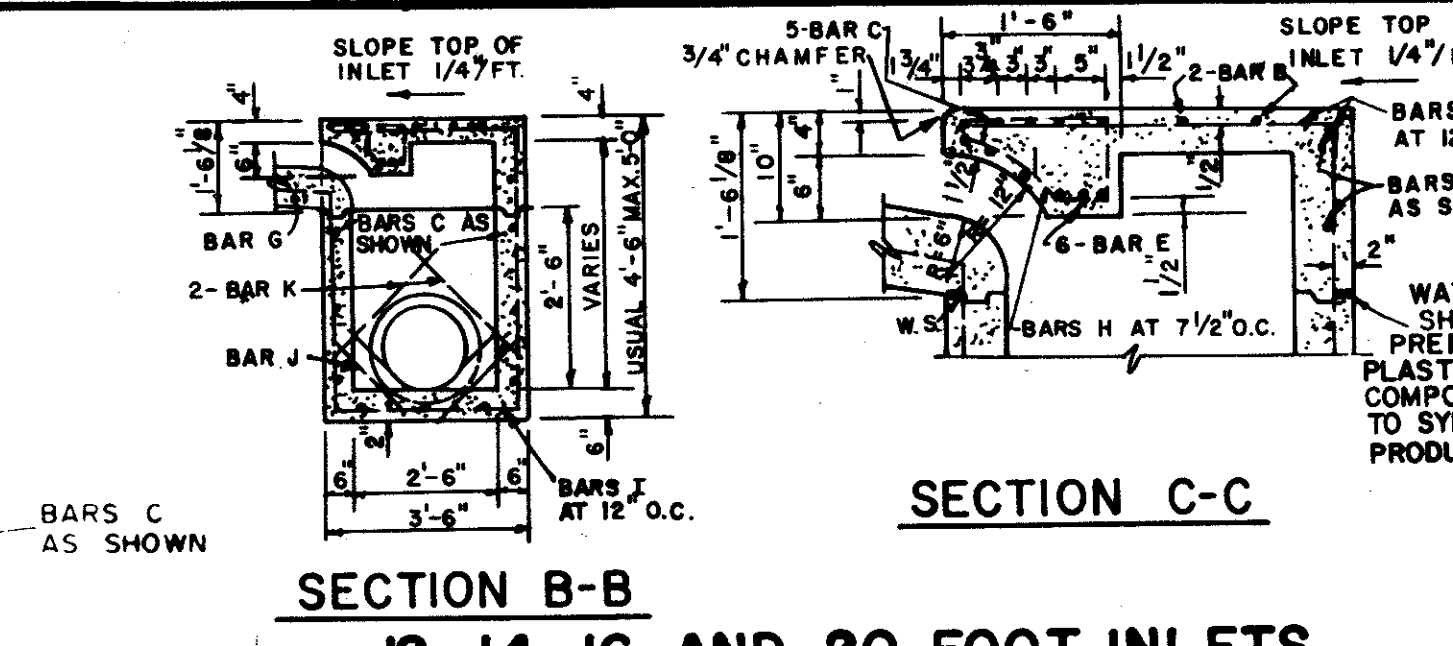


INSTALLATION DRAWING FOR PRECAST 5' & 10' CURB INLETS



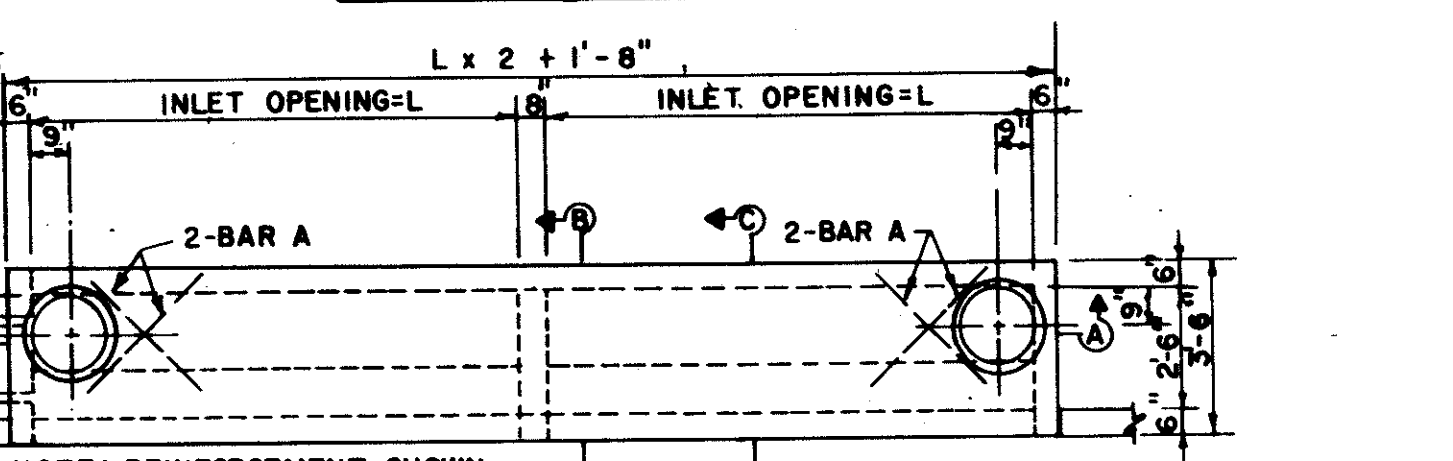
SECTION B-B

4, 6, 8 AND 10 FT. INLETS



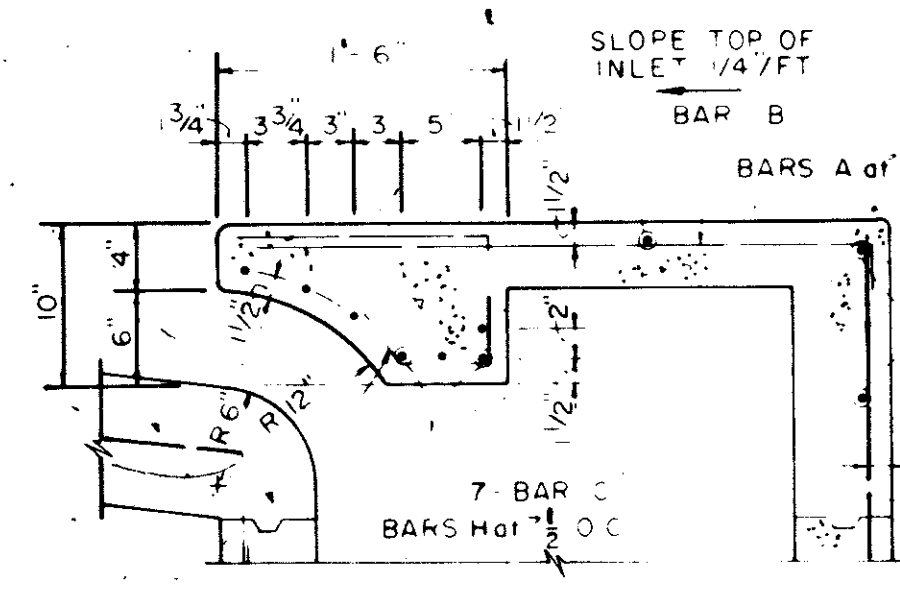
SECTION B-B

12, 14, 16 AND 20 FOOT INLETS



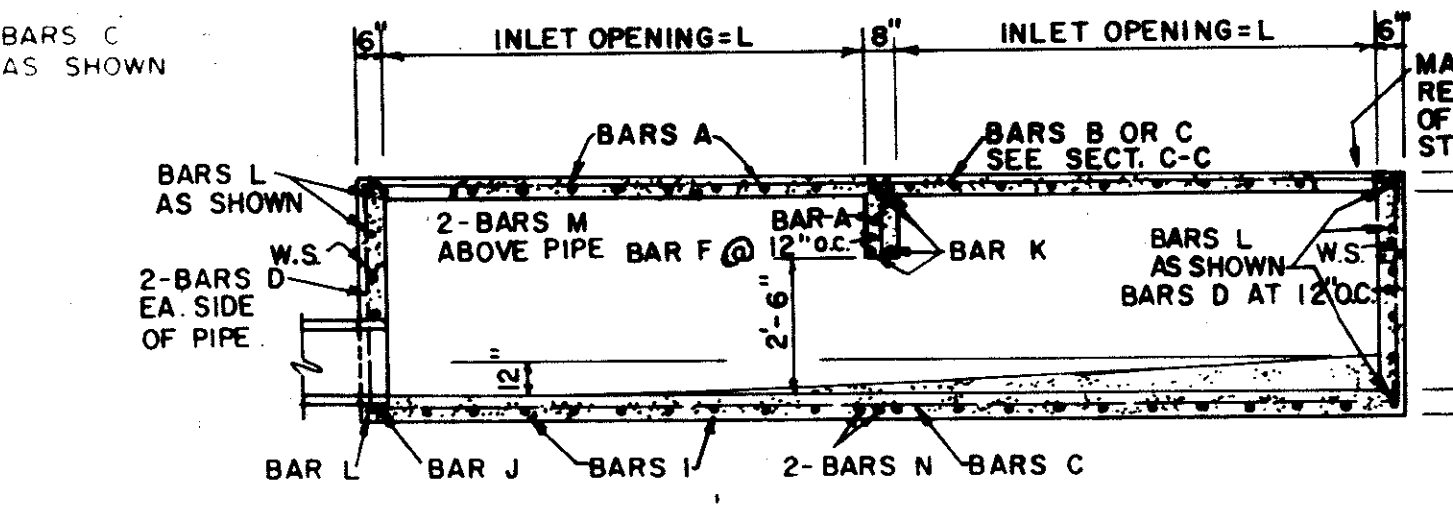
PLAN

12, 14, 16 AND 20 FOOT INLETS



SECTION C-C

4, 6, 8 AND 10 FOOT INLETS

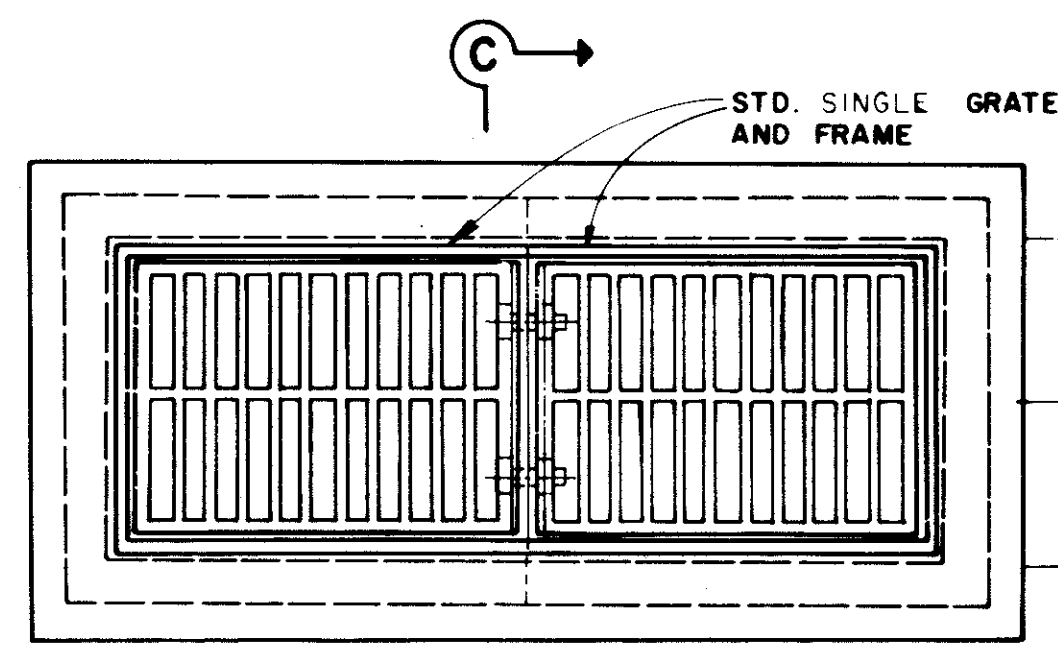


SECTION A-A

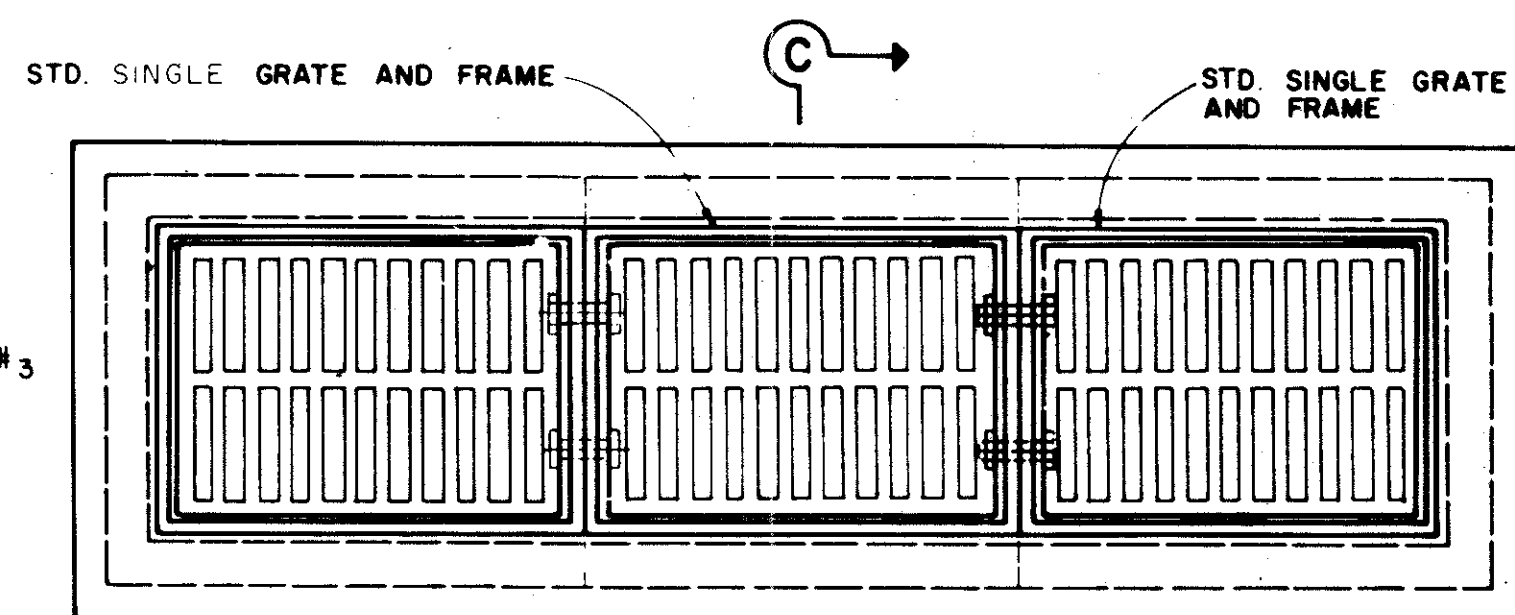
12, 14, 16 AND 20 FOOT INLETS

NO.	REVISION
TOWN OF ADDISON DEPARTMENT OF ENGINEERING	
STANDARD CONSTRUCTION DETAIL STORM DRAINAGE CURB INLETS	
DATE:	

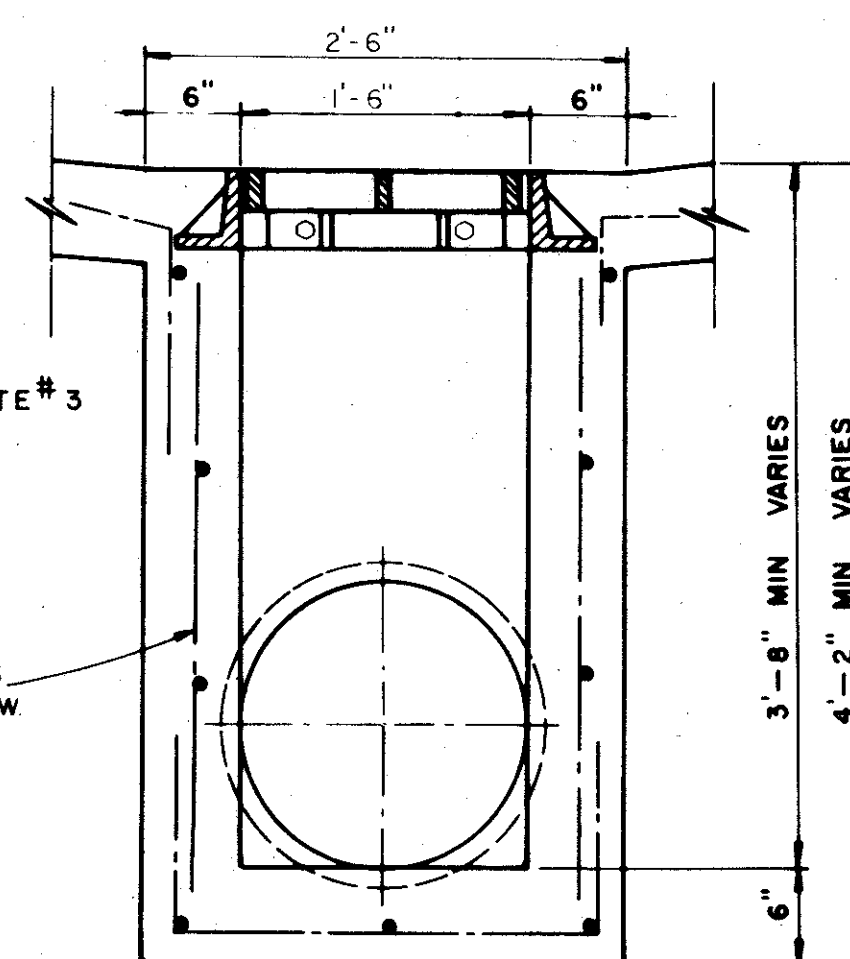




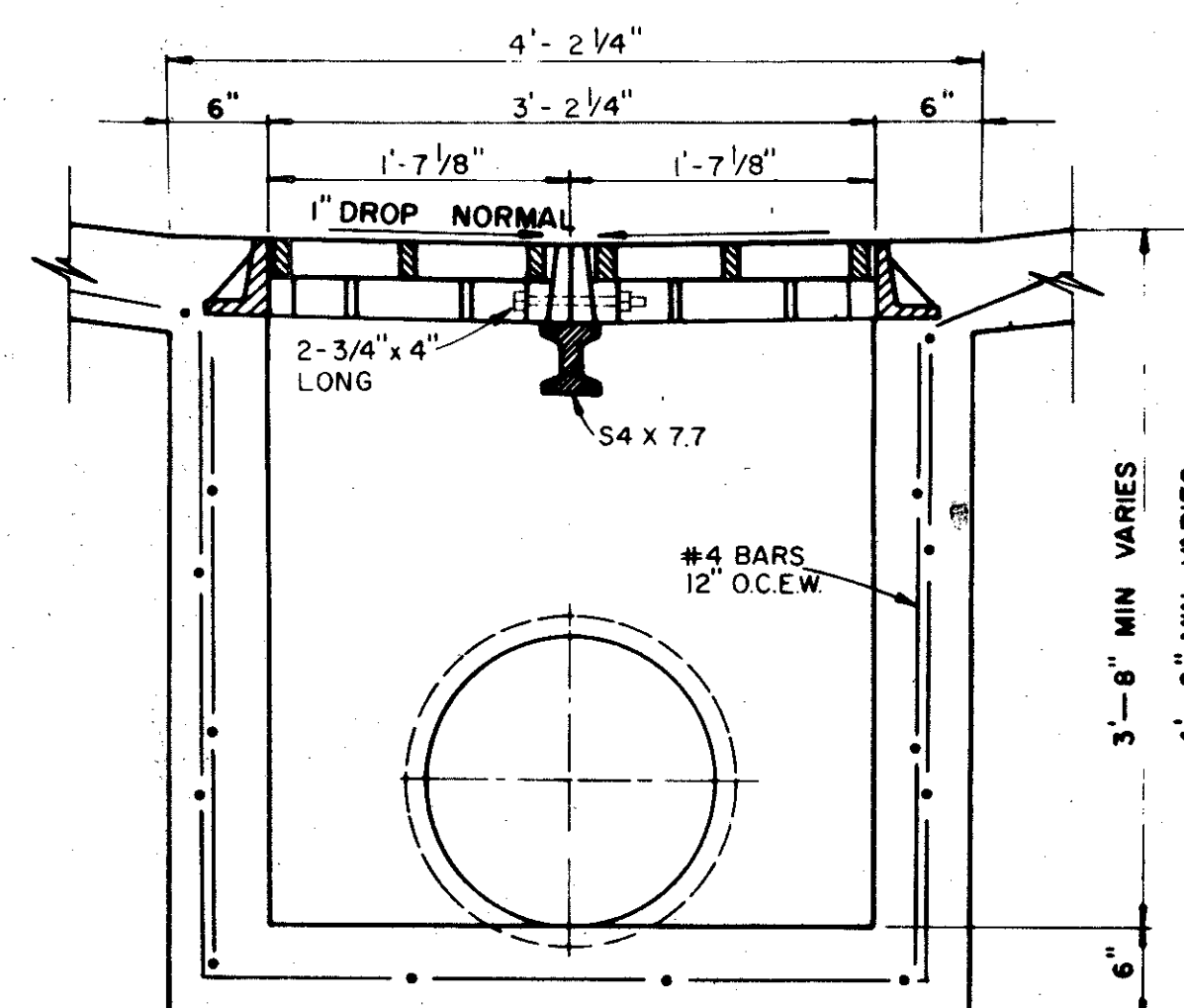
**TWO GRATE INLET**



**THREE GRATE INLET**

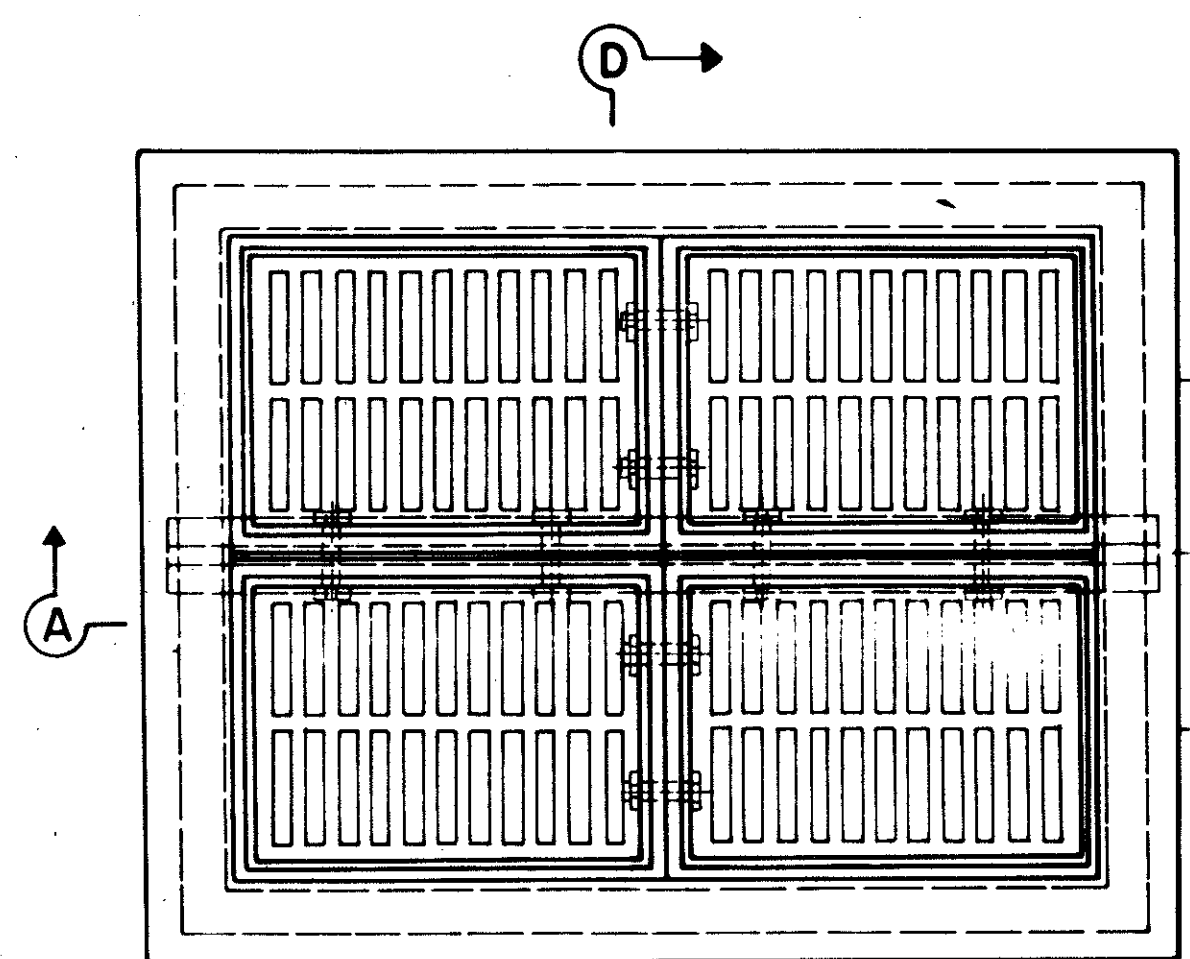


**SECTION C-C**

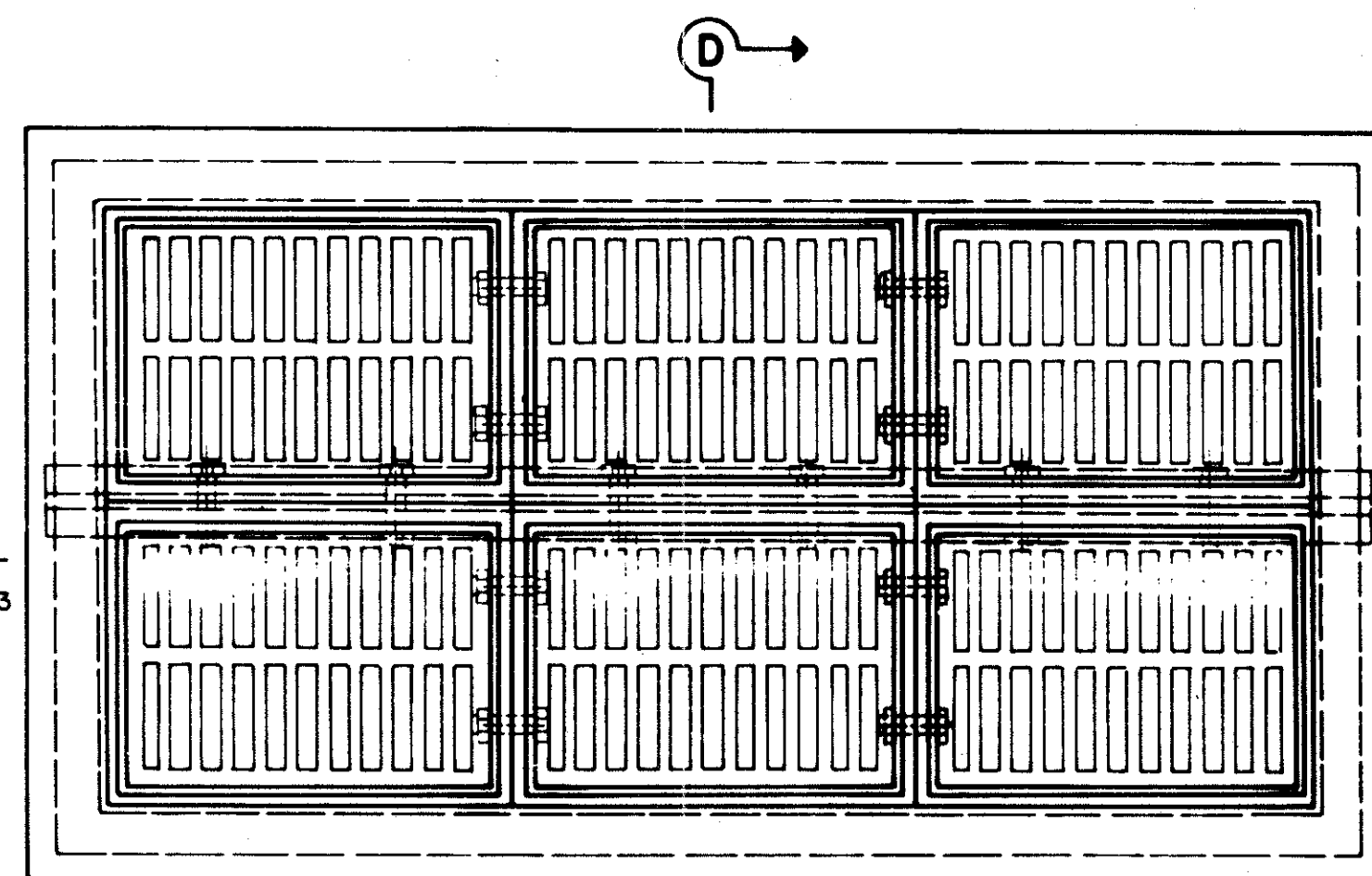


**SECTION D-D**

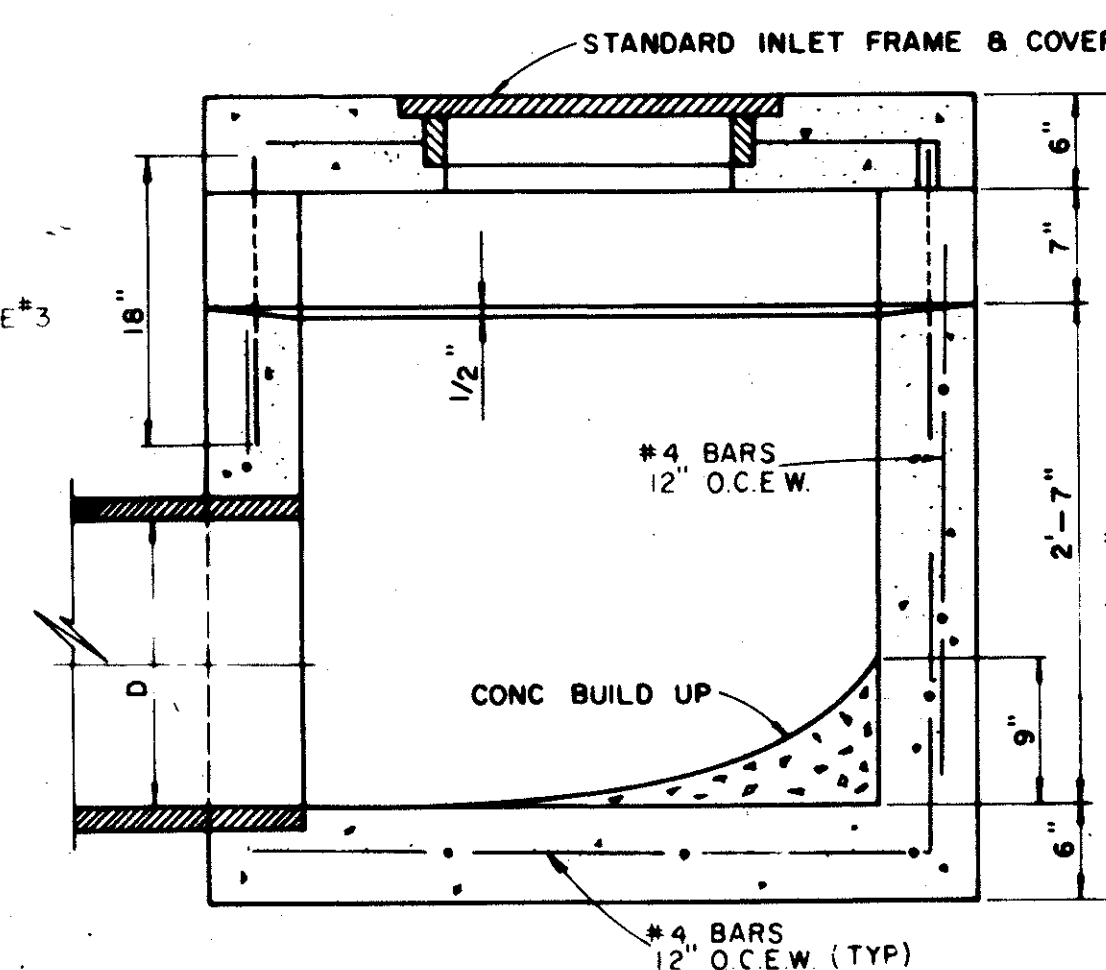
- NOTES**
1. ALL LAPS AND EXTENSIONS OF REINFORCING BARS SHALL BE 36 BAR DIAMETERS UNLESS NOTED OTHERWISE.
  2. TACK WELD GRATES IN PLACE.
  3. PIPE MAY BE PLACED IN ANY WALL, BUT SHALL NOT ENTER ANY CORNER, OR BOTTOM.



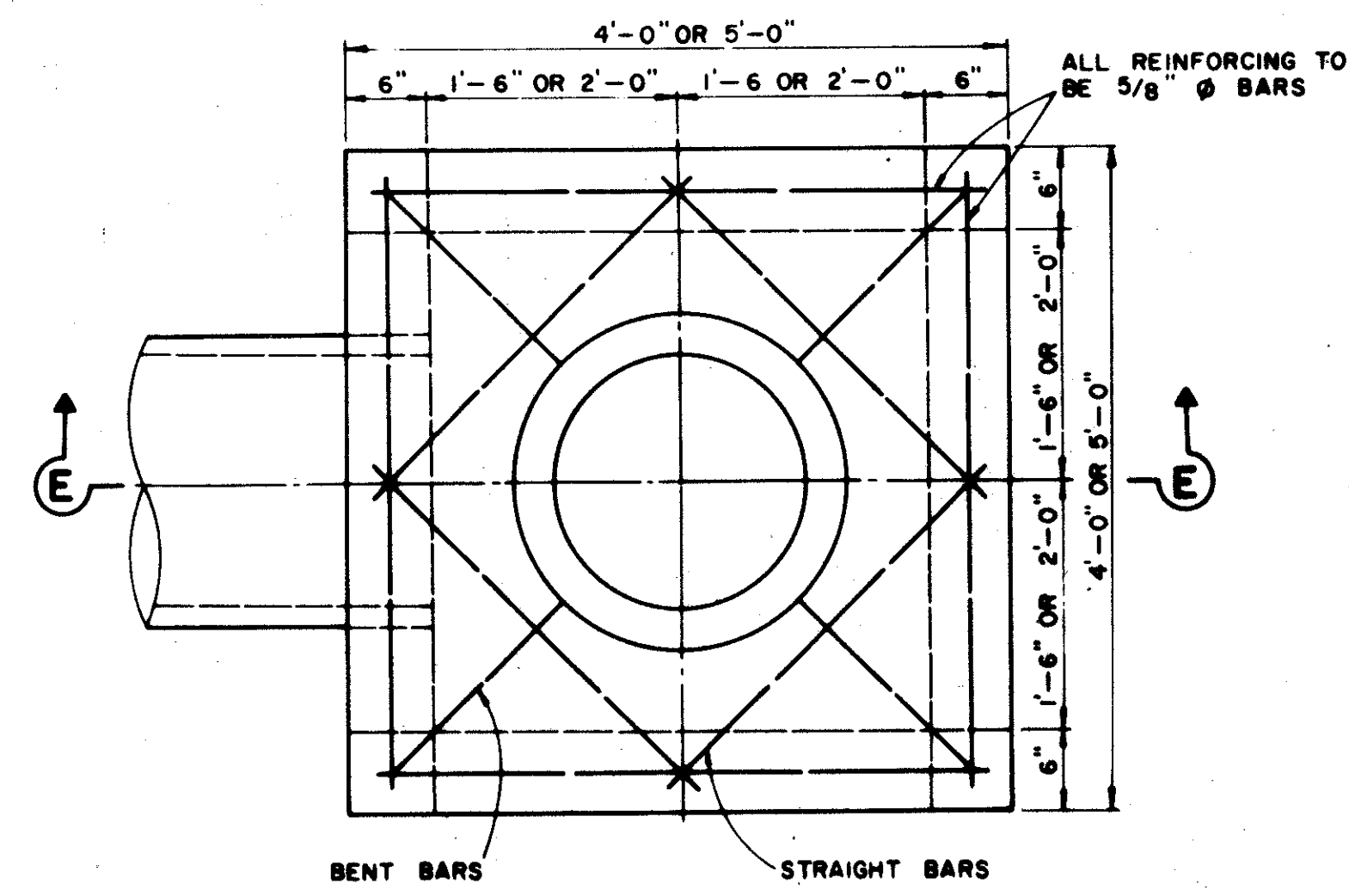
**FOUR GRATE INLET**



**SIX GRATE INLET**



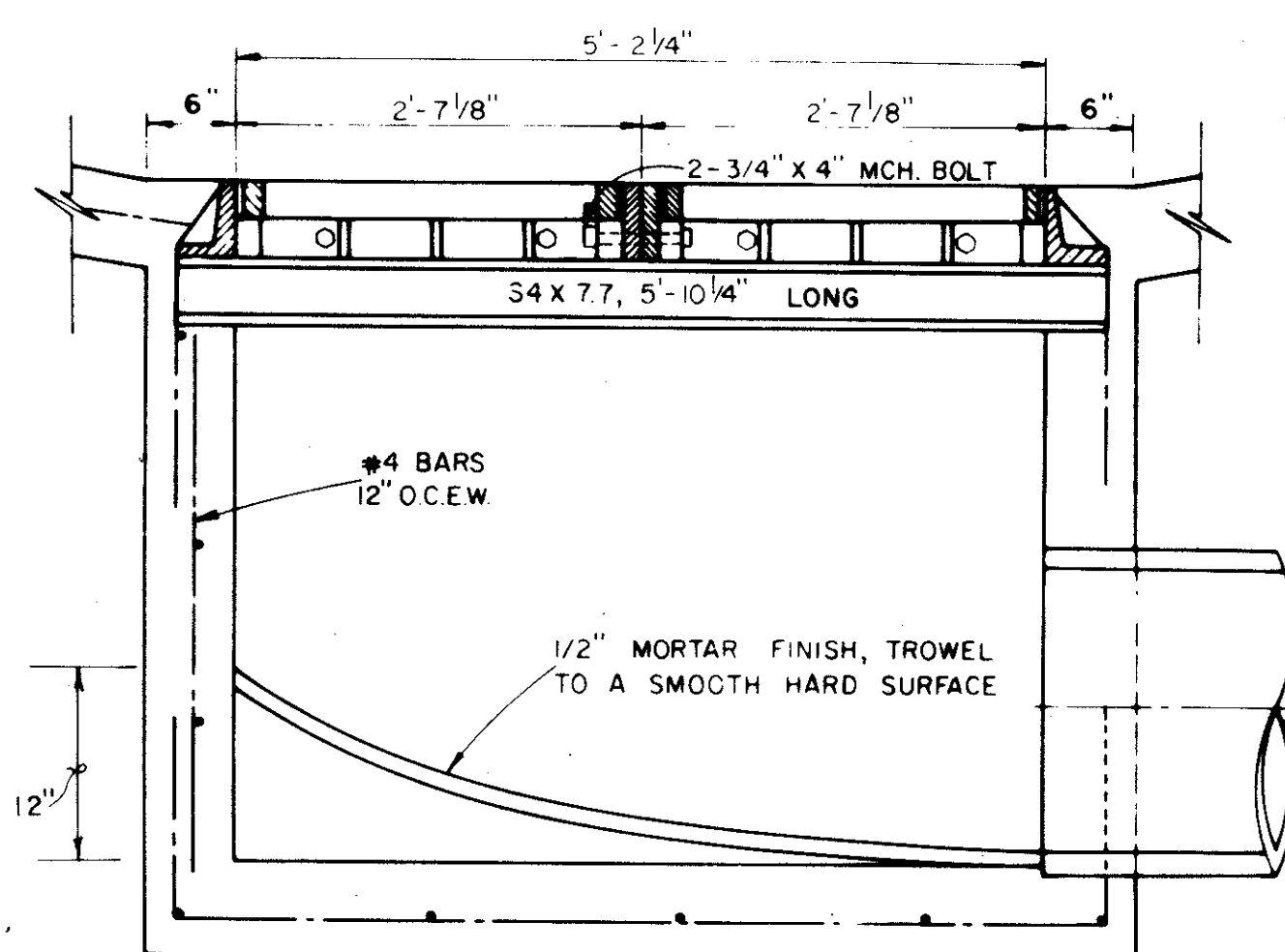
**SECTION E-E**



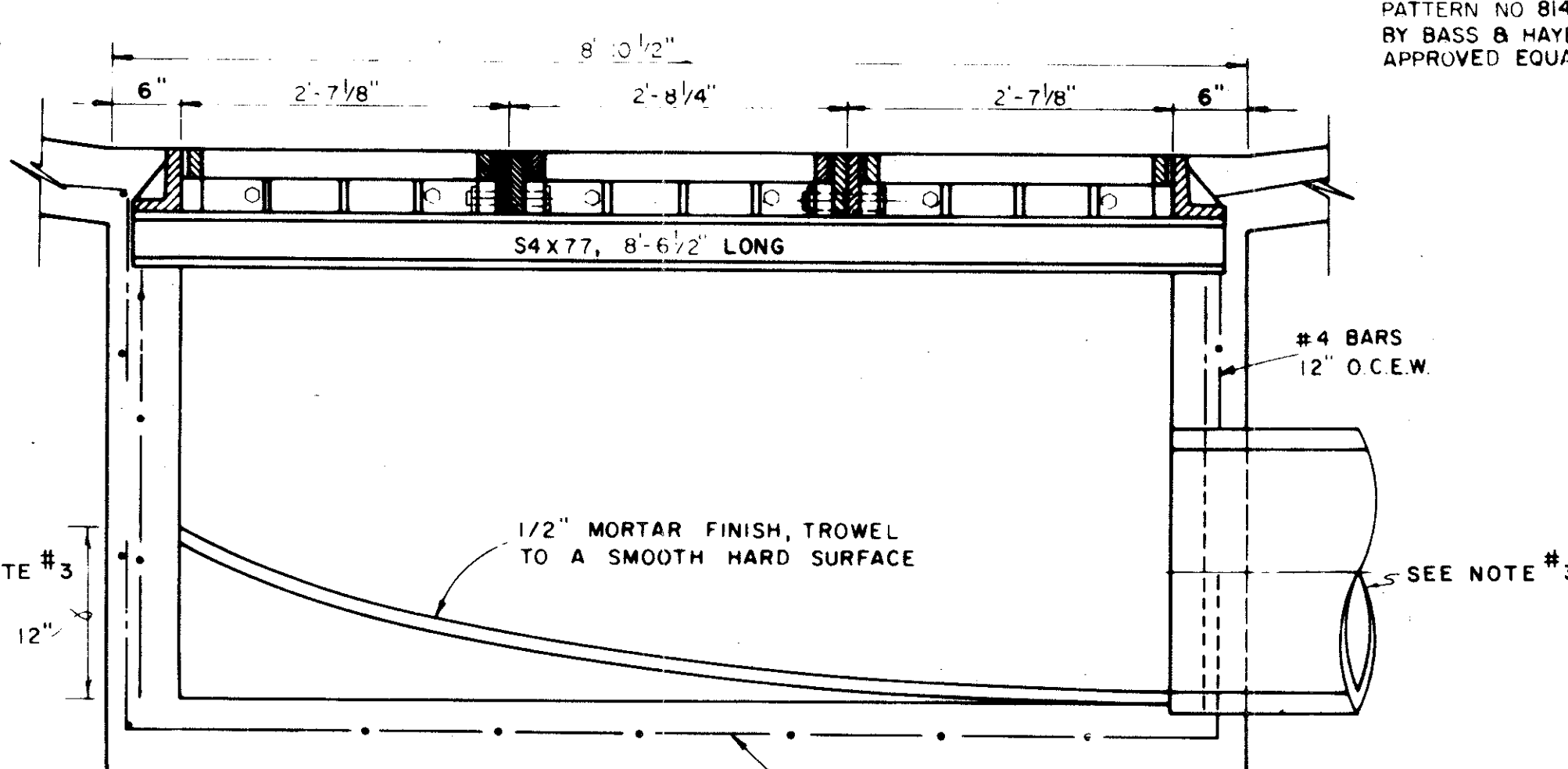
**PLAN**

NOTE 1 GRATE AND FRAME SHALL BE PATTERN NO 814 AS MANUFACTURED BY BASS & HAYES FOUNDRY, OR APPROVED EQUAL.

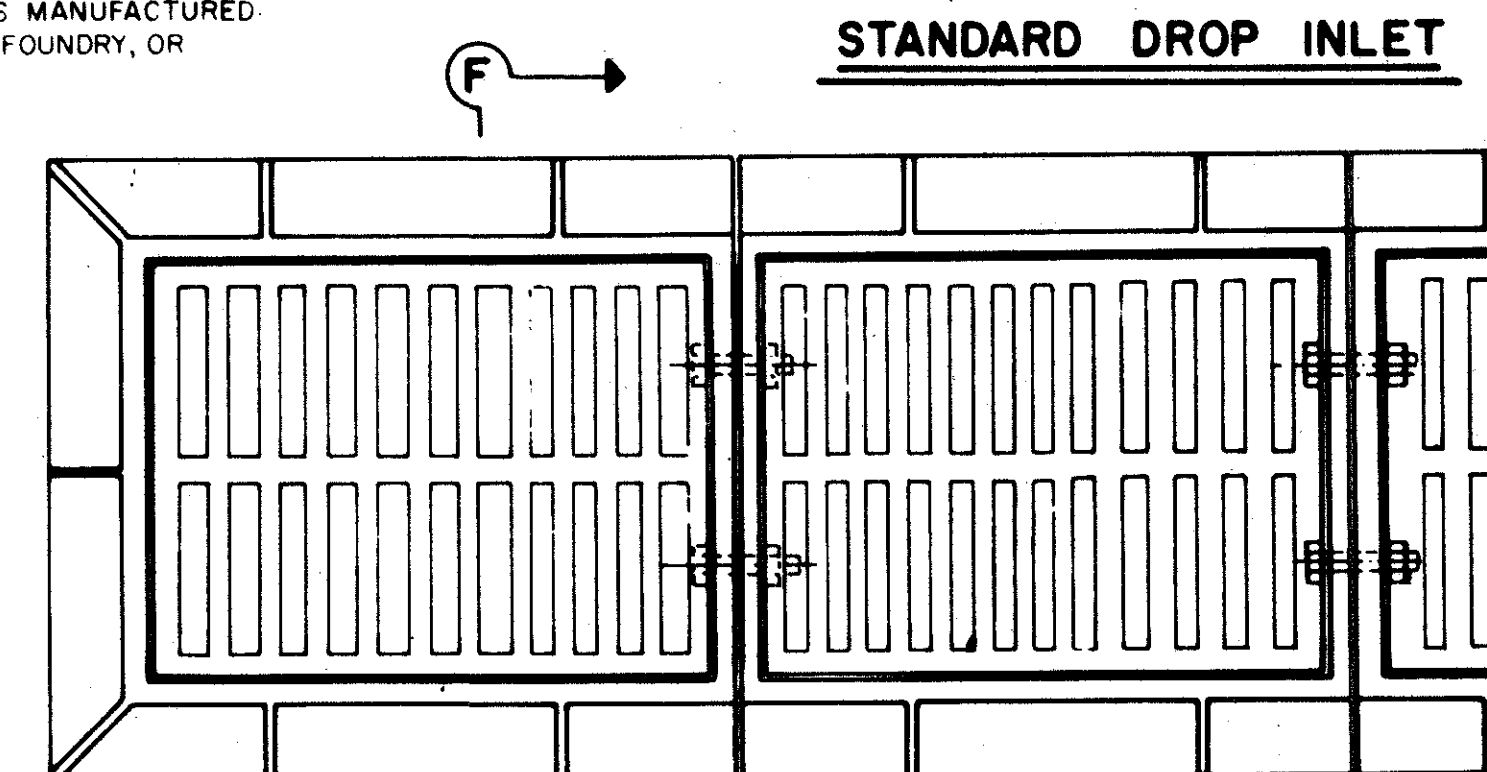
NOTE 2 ALL REINFORCING BAR LAPS AND EXTENSIONS SHALL BE 36 BAR DIAMETER UNLESS NOTED OTHERWISE.



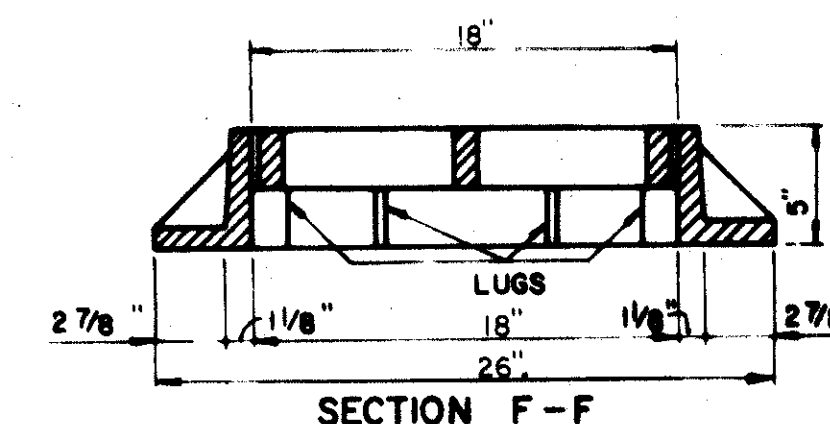
**SECTION A-A**



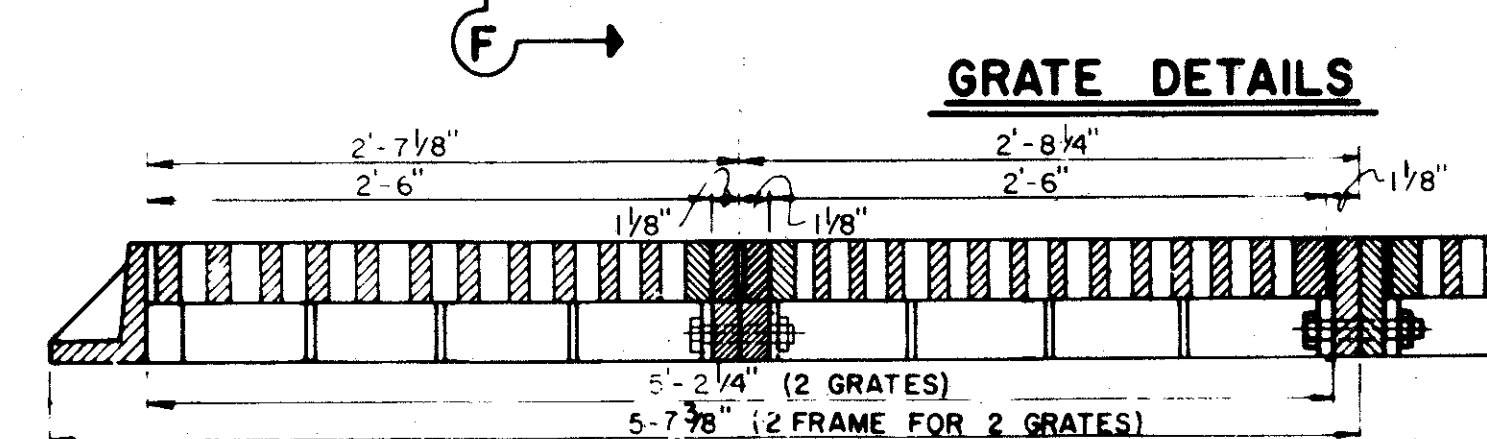
**SECTION B-B**



**STANDARD DROP INLET**



**SECTION F-F**



**GRATE DETAILS**

NO.	REVISION	BY	DATE
TOWN OF ADDISON DEPARTMENT OF ENGINEERING STANDARD CONSTRUCTION DETAILS STORM DRAINAGE GRATE INLET - DROP INLET			
DATE			SHEET SD-4