

DEVELOPMENT PLANS

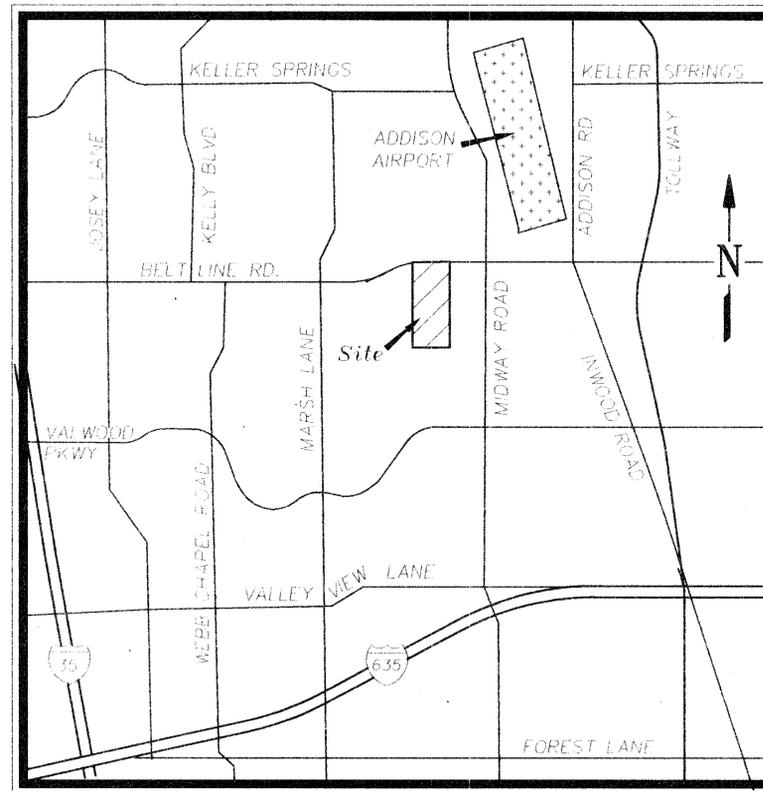
FOR

FRESH CHOICE

TOWN OF ADDISON, TEXAS

GENERAL NOTES

- A. Prior to final acceptance by the Town of Addison:
- 1) A Texas Registered Professional Engineer shall certify that the project was constructed in accordance with the plans and specifications approved by the Town of Addison.
- The owner shall provide 1 reproduction set of as-builts (sealed and certified by a Texas Registered Engineer) and 2 blue line sets.
- 2) A five foot sidewalk shall be installed along Belt Line Road.
 - 3) A one year maintenance bond is required for the subdivision infrastructure.
 - 4) Contractor shall demonstrate that the water and sanitary sewer systems meet the proper pressure, bacteria, and mandrel tests. In addition, the owner shall provide a VHS format video tape of the sanitary sewer.
- B. Prior to starting construction, the contractor shall contract the utility companies to locate existing facilities. These include but may not be limited to the following:
- 1) Town of Addison
 - 2) Lone Star Gas
 - 3) Southwestern Bell
 - 4) Storer Cable
 - 5) Planned Cable Systems
 - 6) TU Electric
- C. Prior to beginning construction, the owner or his authorized representative shall convene a Pre-Construction Conference between the Town of Addison, Consulting Engineer, Contractor(s), utility companies and any other affected parties. Notify Bruce Ellis 450-2847 at least 48-hours prior to the time of the conference and 48-hours prior to beginning construction.
- D. Any existing pavement, curbs, and/or sidewalks damaged or removed will be repaired by the contractor at their expense.
- E. Lot pins shall be in place during construction and prior to final acceptance. Concrete monuments shall be placed on all boundary corners, block corners, curve points and angle points in public right-of-way. Concrete monuments shall be six (6) inches in diameter and twenty-four (24) inches long. A copper pin one-fourth inch in diameter embedded at least three (3) inches in the monument at the exact intersection point of the monument. The monuments shall be set at such an elevation that after construction, the top of the monument will not be less than twelve (12) inches below the ground surface.
- F. Contractor shall obtain a right-of-way permit by the Town of Addison for working within the public right-of-way.
- G. During construction, the owner shall provide a qualified geotechnical lab to perform materials testing during the construction, at the request of the Town of Addison.
- H. The contractor shall submit material sheets to the Town of Addison for approval prior to incorporating materials into the job.



LOCATION MAP
NOT TO SCALE

INDEX

Sheet No.	Description
1	Final Plat
2	Utility Plan
3	Drainage & Grading Plan
4	Pollution Prevention Plan
5-14	Detail Sheets

PREPARED FOR

FRESH CHOICE

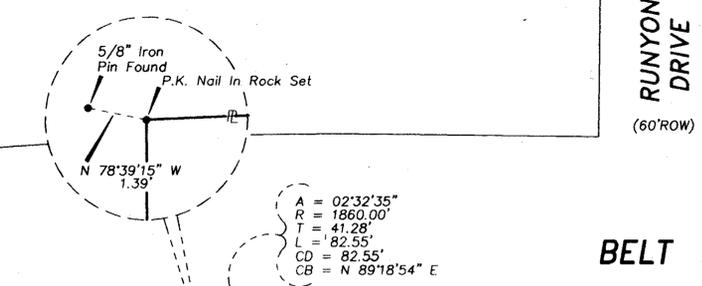
2901 Tasman ~ Suite 109 ~ Santa Clara, California 95054

A. H. ASSCIATES, INC.

6330 Belt Line Road ~ Suite C ~ Garland, Texas 75043 (214) 226-2967



SCALE: 1"=40'



RUNYON DRIVE
(60' ROW)

BELT LINE ROAD
(100' R.O.W.)

STATE OF TEXAS X
COUNTY OF DALLAS X

OWNERS CERTIFICATE

WHEREAS FEDERAL DEPOSIT INSURANCE CORPORATION, AS MANAGER FOR FSUIC RESOLUTION FUND, SUCCESSOR IN INTEREST TO THE FEDERAL SAVINGS AND LOAN ASSOCIATION OF LUBBOCK is the owner of a tract of land situated in the Thomas L. Chenoweth Survey - Abstract No. 273, Town of Addison, Dallas County Texas, and being part of that 6,218.86 acre tract of land platted as BELT LINE CENTRE an addition to the Town of Addison filed in Volume 92145, Page 3641 of the Deed Records of Dallas County, Texas, and being more particularly described as follows:

This plat is approved subject to all platting ordinances, rules, regulations and resolutions of the Town of Addison, Texas.
WITNESS my hand at Addison, Texas, this 11 day of SEPTEMBER, 1992.

FEDERAL DEPOSIT INSURANCE CORPORATION, AS MANAGER FOR FSUIC RESOLUTION FUND, SUCCESSOR IN INTEREST TO THE FEDERAL SAVINGS AND LOAN ASSOCIATION OF LUBBOCK

William D. Stutz
Notary Public, State of Texas

STATE OF TEXAS X
COUNTY OF DALLAS X

BEFORE ME, the undersigned authority, a Notary Public in and for said County and State, on this day personally appeared William D. Stutz, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same in the capacity therein stated and for the purposes and considerations therein expressed

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 11th day of SEPTEMBER, 1992

Gregory A. McCall
Notary Public, State of Texas

SURVEYORS CERTIFICATE

I, GREGORY A. McCALL, Registered Professional Land Surveyor for Tipton Engineering, Inc., do hereby certify that the plat shown hereon accurately represents the results of an on-the-ground survey made under my direction and supervision, and further certify that all corners are as shown thereon, and that said plat has been prepared in accordance with the platting rules and regulations of the Town of Addison, Texas

DATED: This the 11 day of September, 1992



TIPTON ENGINEERING, INC.

Gregory A. McCall
Registered Professional Land Surveyor
No. 4396

STATE OF TEXAS X
COUNTY OF DALLAS X

BEFORE ME, the undersigned authority, a Notary Public in and for said County and State, on this day personally appeared GREGORY A. McCALL, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same in the capacity therein stated and for the purposes and considerations therein expressed

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 11th day of September, 1992

James Dean Osborne
Notary Public, State of Texas

CERTIFICATE OF APPROVAL

APPROVED BY THE TOWN OF ADDISON, DALLAS COUNTY, TEXAS, this the 11th day of July, 1992.

MAYOR

C. Moran
SECRETARY

AMENDED
FINAL PLAT
BELT LINE CENTRE
OF

TOWN OF ADDISON
THOMAS L. CHENOWETH SURVEY ~ ABSTRACT NO. 273
DALLAS COUNTY, TEXAS

OWNER
FEDERAL DEPOSIT INSURANCE CORPORATION, AS MANAGER FOR FSUIC RESOLUTION FUND, SUCCESSOR IN INTEREST TO THE FEDERAL SAVINGS AND LOAN ASSOCIATION OF LUBBOCK
SURVEYOR
ONE SPECTRUM CENTER, 5080 SPECTRUM DRIVE, SUITE 1000E, DALLAS, TEXAS 75248

TIPTON ENGINEERING, INC.
6330 BELT LINE ROAD ~ SUITE C ~ GARLAND, TEXAS 75043 ~ PH. NO. (214)226-2967

A = 21'14.29"
R = 1860.00'
T = 348.79'
L = 689.56'
CD = 685.62'
CB = N 77°25'09" E

A = 02°32'35"
R = 1860.00'
T = 41.28'
L = 82.55'
CD = 82.55'
CB = N 89°18'54" E

A = 90°33'42"
R = 85.00'
T = 85.84'
L = 134.35'
CD = 120.80'
CB = N 44°41'51" W

Crv.1
A = 00°51'45"
R = 1860.00'
T = 14.00'
L = 28.00'
CD = 28.00'
CB = N 88°28'18" E

Crv.2
A = 43°06'17"
R = 30.00'
T = 11.85'
L = 22.57'
CD = 22.04'
CB = S 20°58'08" E

Crv.3
A = 38°04'23"
R = 30.00'
T = 10.35'
L = 19.94'
CD = 19.94'
CB = S 18°27'12" E

Crv.4
A = 31°40'06"
R = 20.00'
T = 5.67'
L = 11.05'
CD = 10.91'
CB = N 16°25'03" E

Crv.5
A = 01°40'50"
R = 1860.00'
T = 27.28'
L = 54.55'
CD = 54.55'
CB = N 89°44'52" E

MERCADO JUAREZ
(vol.88172, pg.1066)

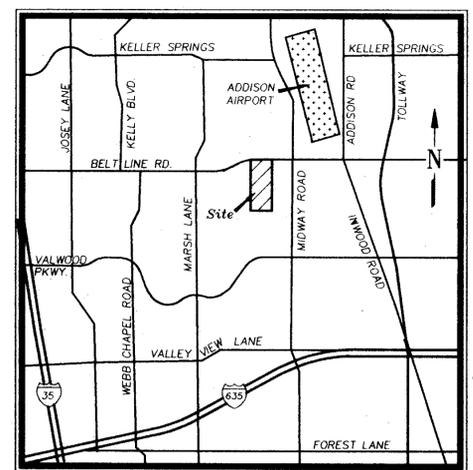
LEVITZ FURNITURE CO.
OF ADDISON, TEXAS
(vol.83056, pg.1571)

Lot 3
50,721 Sq. Ft.
or
1.1644 Ac.

Lot 1
66,184 Sq. Ft.
or
1.5194 Ac.

Lot 2
152,368 Sq. Ft.
or
3.4979 Ac.

BLOCK NO. 1

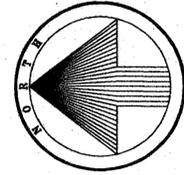


LOCATION MAP

PECAN SQUARE CONDOMINIUMS
(vol.82165, pg.1772)

S A M S C L U B A D D I T I O N

(Vol. 92109, Pg. 3987)



McCultchin Brother, J.V.
Lot 4, Block A

Wall - Mart Stores, Inc.
Lot 1, Block A

Install 6 L.F. Of 21" R.C.P.
& Conn. To Exist. 54" R.C.P.

S 00°01'18" W 389.43'

Const. 5' Curb Inlet
TC=609.60, FL=605.60

Conn. Roof Drain Into
Back Of Inlet

FRESH CHOICE
(7416 S.F.)
F.F. = 611.00

Install:
1-8"x3" Tee
1-8"x6" Red.

1+40 Line 'A'~End
& Const. 4" Cleanout
6" FL=604.40

Amended Final Plat
Belt Line Centre
Lot 2, Block 1

A = 90°33'42"
R = 85.00'
T = 85.84'
L = 134.35'
CD = 120.80'
CB = N44°41'51"W

0+00 Line 'A'~Const.
4.0' M.H. On Ex.
8" Sani. Sewer
6" FL In=596.00

Install 55 L.F. Of 8" By
Other Than Open Cut

Conn. To Exist. 8" Water
& install 1-8"x8" Tapping
Sleeve & 1-8" Valve

Amended Final Plat
Belt Line Centre
Lot 3, Block 1

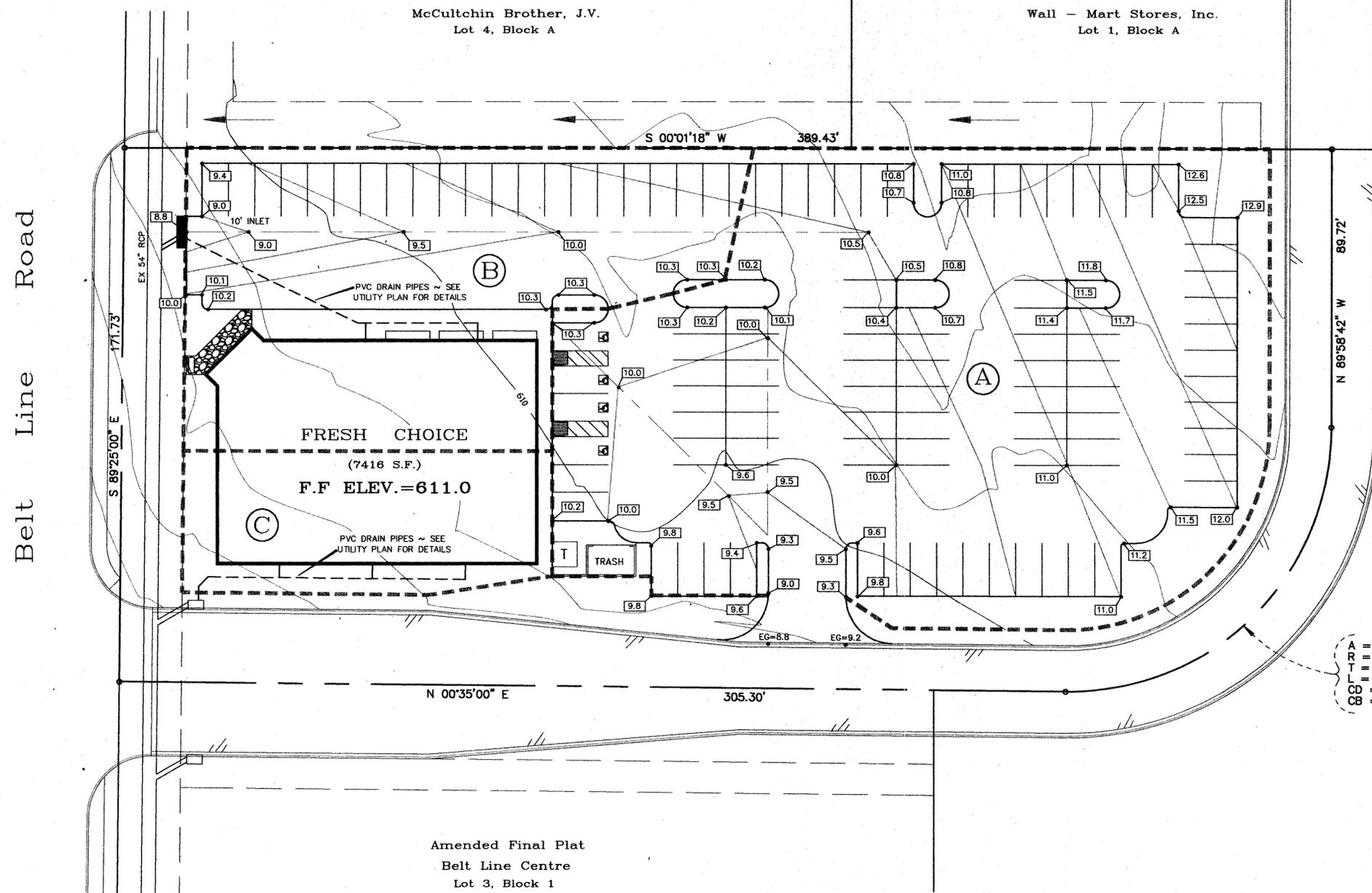
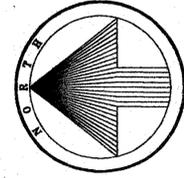
Note!!
Water Meters To Be Supplied By Applicant.



The seal appearing on this document was authorized by Richard Howas, P.E. 58877

UTILITY PLAN						
FRESH CHOICE						
Town Of Addison, Texas						
A. H. ASSOCIATES, INC.						
6330 Belt Line Rd. ~ Suite C ~ Garland, Texas 75043						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
T.E. Inc.	T.E. Inc.	5/93	1"=20'		3869	2

SAMS CLUB ADDITION
(Vol. 92109, Pg. 3987)



DRAINAGE DATA

AREA	ACRE	"C"	"I ₁₀₀ "	"Q ₁₀₀ "
A	0.7	0.9	8.7	5.48
B	0.3	0.9	8.7	2.35
C	0.1	0.9	8.7	0.78

LEGEND
 EG=8.8 EXISTING GUTTER ELEVATION
 [9.6] PROPOSED PAVEMENT ELEVATION

Amended Final Plat
 Belt Line Centre
 Lot 2, Block 1

A = 90°33'42"
 R = 85.00'
 T = 85.84'
 L = 134.35'
 CD = 120.80'
 CB = N44°41'51"W

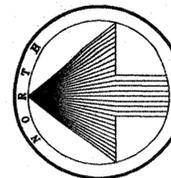
Amended Final Plat
 Belt Line Centre
 Lot 3, Block 1



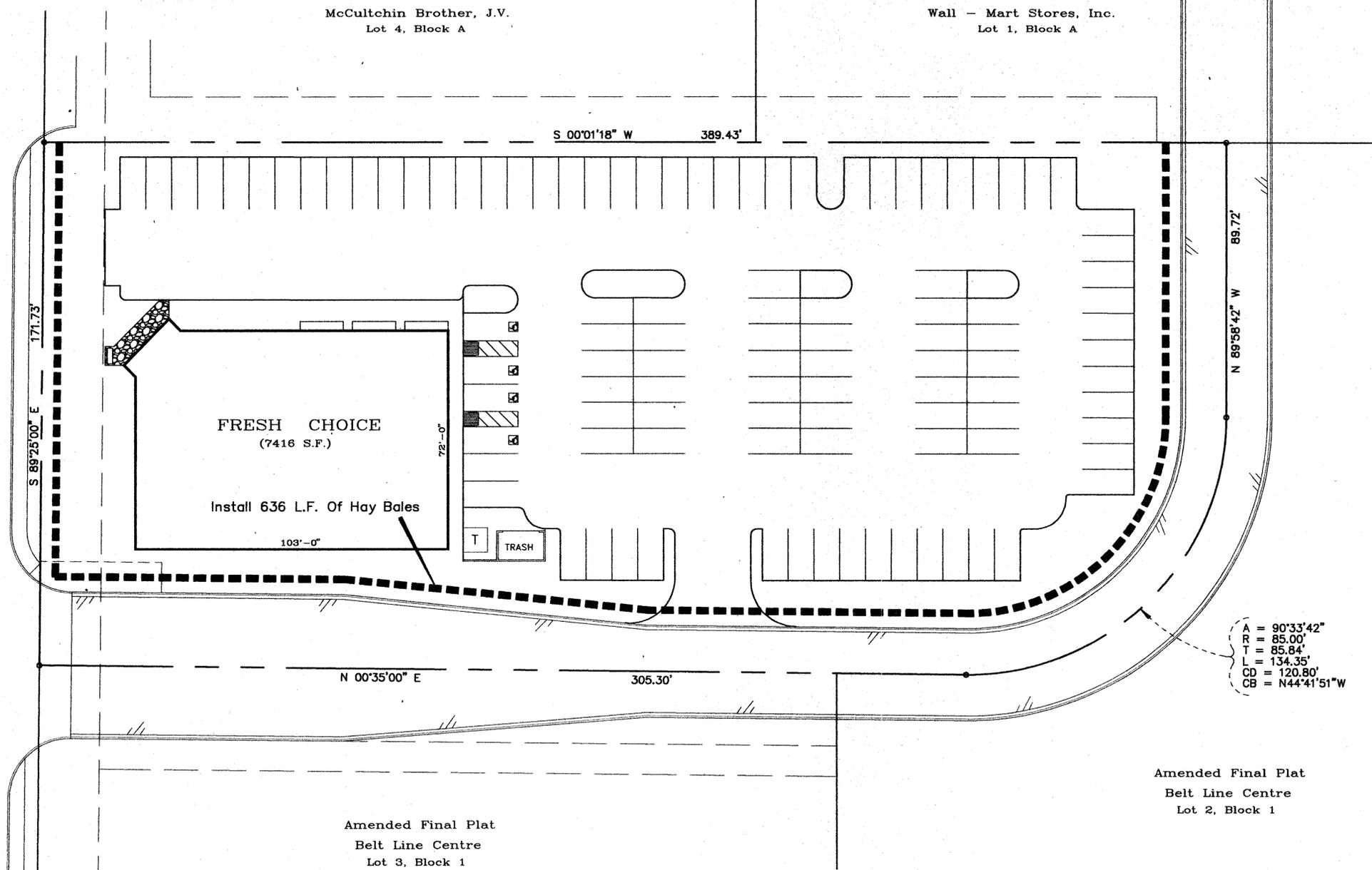
The seal appearing on this document was authorized by Richard Hovav, P.E. 58877

DRAINAGE & GRADING					
FRESH CHOICE					
Town Of Addison, Texas					
A. H. ASSOCIATES, INC.					
6330 Belt Line Rd. ~ Suite C ~ Garland, Texas 75043					
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE
T.E. Inc.	T.E. Inc.	5/93	1"=20'		3869
					3

SAMS CLUB ADDITION
(Vol. 92108, Pg. 3987)



Belt Line Road



GENERAL NOTES FOR STORM WATER POLLUTION PREVENTION PLAN

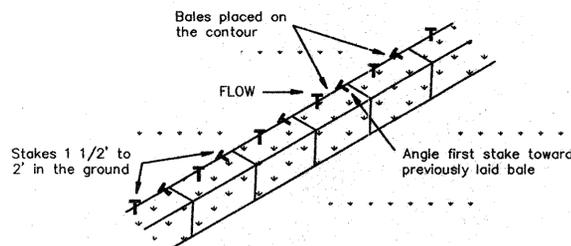
- All operators and/or contractors shall conform to the terms and conditions of the National Pollution Discharge Elimination Systems (NPDES) General Permit as published in the Federal Register, Vol. 57, No. 175, September 9, 1992, by the Environmental Protection Agency (EPA). The Notice of Intent (NOI), as required by the General Permit, must be properly displayed on site at all times by each operator.
- All releases of reportable quantities of hazardous substances shall be reported immediately to the facility operator and EPA.
- Qualified operator personnel must inspect the site at least once every seven days and within 24 hours of a 1/2" or greater rainfall event. The Inspector shall document the results.
- Modifications to the Storm Water Pollution Prevention Plan shall be implemented and be in-place within a seven calendar day period.
- If any contractor sees a violation by an operator or another contractor, he shall notify the operator and contractor in violation, as well as the facility operator.
- Erosion control shall be installed prior to any grading.
- Accumulated silt deposits shall be removed from silt fences and hay bale dikes when silt depth reaches six inches. Removal of silt deposits by the contractor shall be incidental to the performance of the contract and a separate bid item shall not be included.
- The contractor shall add or delete erosion protection at the request and direction of the Operator or the City.
- After installation of pavement, final lot benching and general cleanup, the Paving Contractor shall establish gross groundcover in all street parkways, lots and all other disturbed areas. Materials shall be as specified in Item 2.15 and seeding shall be in accordance with Item 3.10 of the NCTCOG Standard Specifications.
- It shall be the contractor's responsibility to control and limit silt and sediment leaving the site. Specifically, the contractor shall protect all public streets, alleys, streams and storm drainage systems from erosion deposits.
- It shall be the contractor's responsibility to provide a dumpster (or equal) to collect solid waste materials during construction.
- The attached Drainage Area Map, as prepared by Tipton Engineering, Inc., specifically for this project, shall be made part of the Storm Water Pollution Prevention Plan.
- It is anticipated that the following non-storm water discharges will be associated with this project. These discharges are authorized through the construction general permit:
 - Fire hydrant flushings
 - Water used to wash vehicles and to control dust
 - Potable water sources including waterline flushings
 - Irrigation drainage
 - Pavement washdown
 - Uncontaminated ground water
 - Construction water
- Construction waste disposal containers shall be provided on the site for disposal of all non-hazardous construction waste materials. The containers shall be hauled to landfill by the Contractor.
- All hazardous materials shall be handled and disposed of by the Contractor in accordance with Federal, State and Local regulations.

A = 90°33'42"
R = 85.00'
T = 85.84'
L = 134.35'
CD = 120.80'
CB = N44°41'51"W

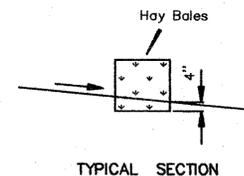
Amended Final Plat
Belt Line Centre
Lot 2, Block 1

Amended Final Plat
Belt Line Centre
Lot 3, Block 1

- CONSTRUCTION NOTES:**
- Hay bales shall be installed a minimum of 4" into the ground.
 - Contractor will install additional erosion control where erosion protection is needed as per the owners engineers, or the Town of Addison inspector.
 - The existing vegetation along existing parkways and medians shall be replaced to its original condition or better.



ANCHORING DETAIL



TYPICAL HAY BALE PLACEMENT

PHASE 1

Not To Scale



The seal appearing on this document was authorized by Richard Hoyas, P.E. 58877

STORM WATER POLLUTION

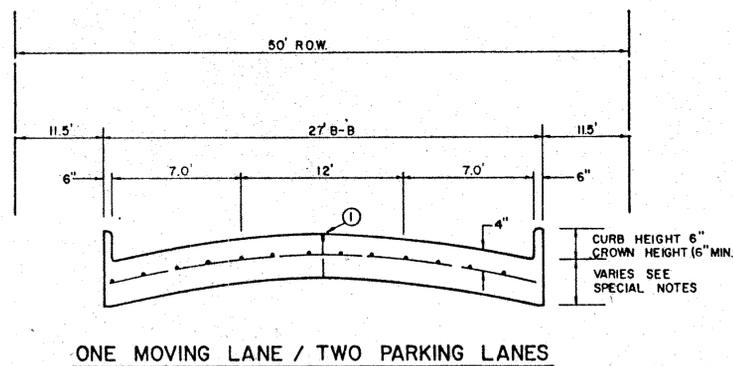
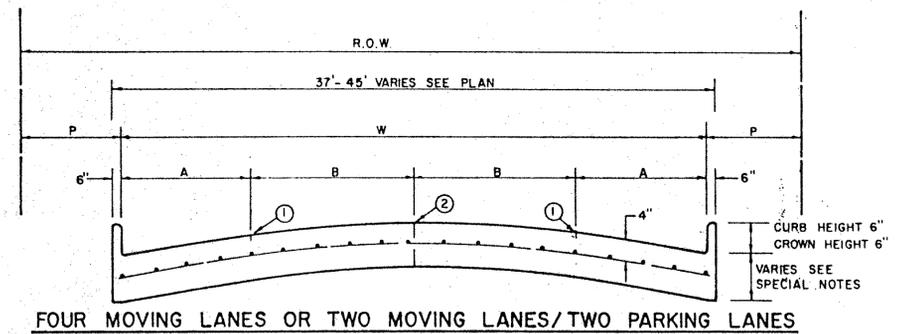
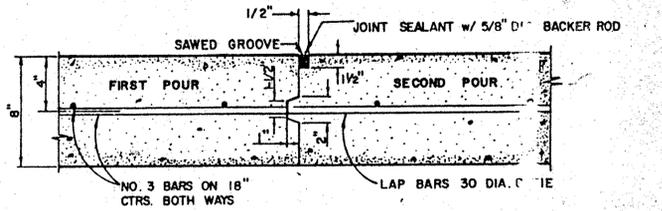
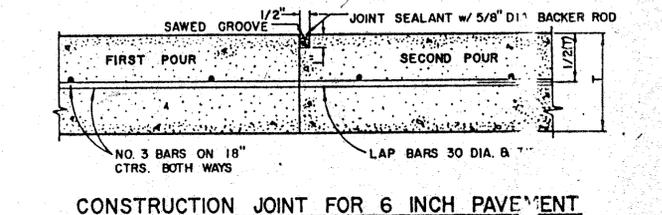
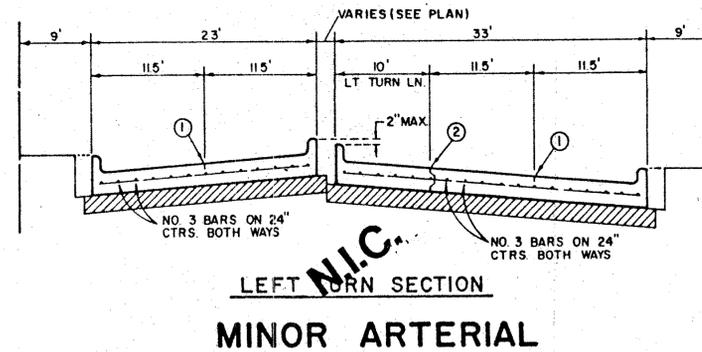
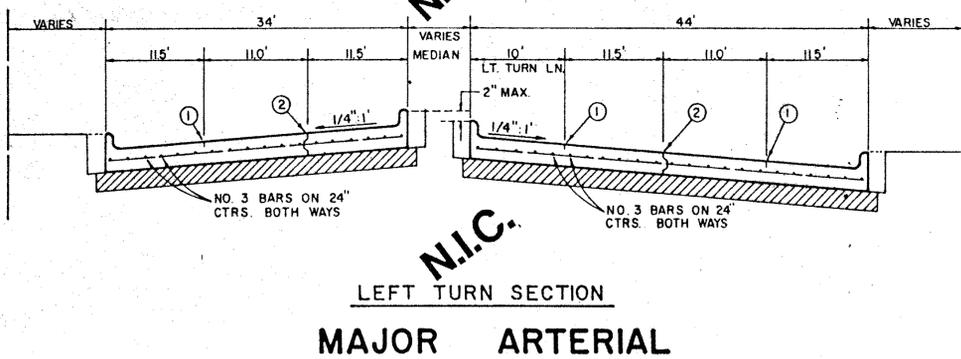
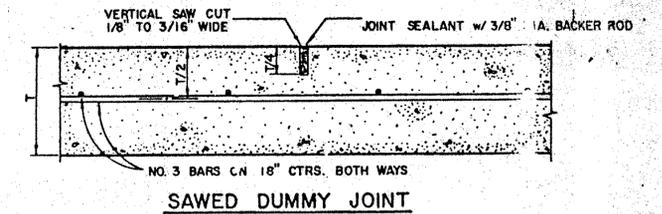
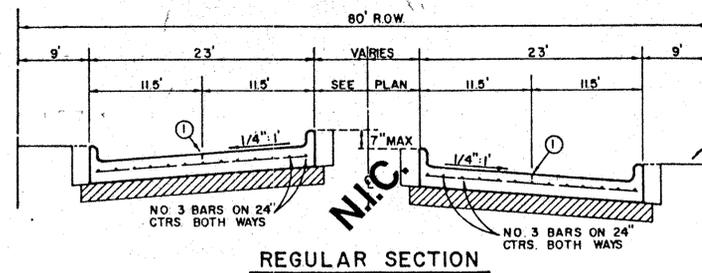
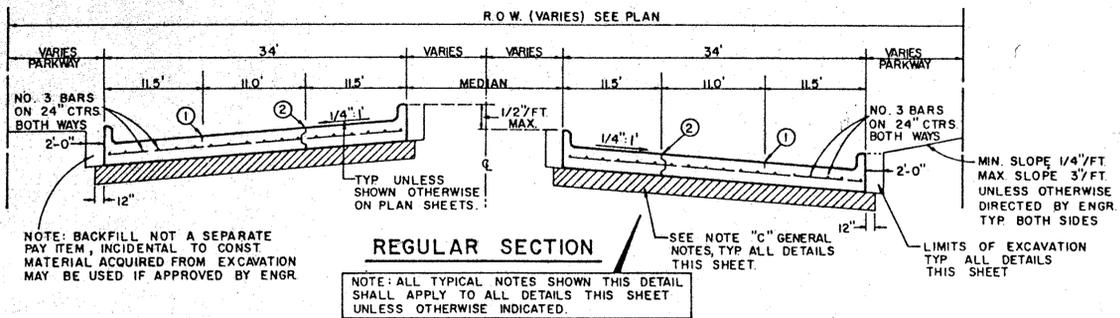
PREVENTION PLAN
FRESH CHOCIE

Town Of Addison, Texas

A. H. ASSOCIATES, INC.

6330 Belt Line Rd. ~ Suite C ~ Garland, Texas 75043

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
T.E. Inc.	T.E. Inc.	5/93	1"=20'		3869	4



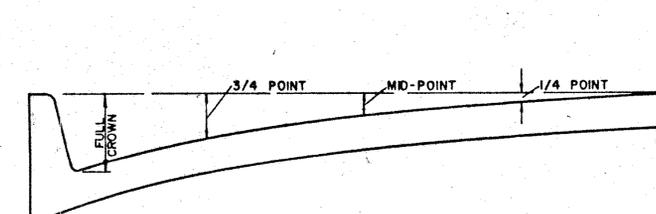
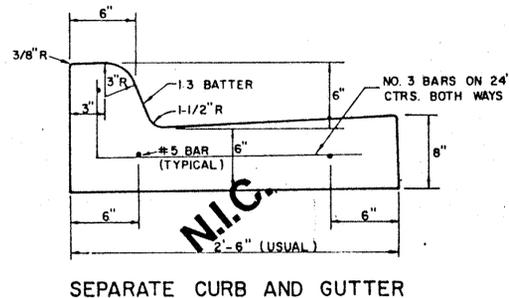
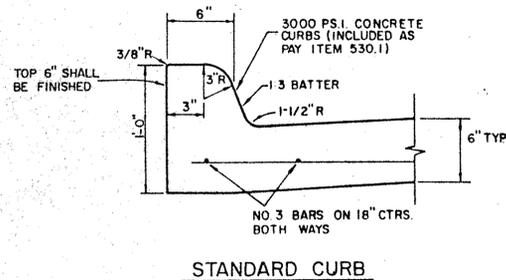
STREET TYPE	STREET WIDTH (W)	A	B	ROW WIDTH	P
COLLECTOR	36'	8'	10'	60'	11.5'
COLLECTOR	40'	8' OR 10'	10' OR 12'	60'	9.5'
COLLECTOR	44'	11'	11'	65'	10.0'

* FULL WIDTH PAVEMENT OF 36' WIDTH STREETS IS ALLOWED WHERE APPROVED BY THE ENGINEER.

COLLECTOR STREET

REINFORCED CONCRETE PAVEMENT

- ALL REINFORCING BARS SHALL BE NO. 3 TRANSVERSE BARS TO BE SPACED ON 1'-6" CENTERS, LONGITUDINAL BARS TO BE SPACED ON 1'-6" EXCEPT WHERE NOTED.
- UNDIVIDED STREETS-PROVIDE 4" DBL.-REF YELLOW & BUTTON P-117-Y PATTERNS TO BE ESTABLISHED BY ENGINEER. SEE DETAIL SHEET.
- ① SAWED LONGITUDINAL DUMMY JOINT.
- ② CONSTRUCTION JOINT (FULL WIDTH PAV'T IS ALLOWED WHERE APPROVED BY ENGINEER).
- ③ FINISH SHALL BE TRANSVERSE WITH TRAFFIC LANES AND SHALL BE STEEL TINED BROOM FINISH.

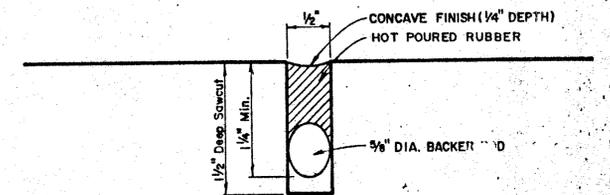


ROADWAY WIDTH (W)	TOTAL CROWN HEIGHT	3/4 POINT	MID-POINT	1/4 POINT
26'	6"	3 - 3/8"	1 - 1/2"	3/8"
36'	6"	3 - 3/8"	1 - 1/2"	3/8"
44'	6"	3 - 3/8"	1 - 1/2"	3/8"
48'	6"	3 - 3/8"	1 - 1/2"	3/8"

TABLE OF CROWN HEIGHTS AND ORDINATES FOR VARIOUS PARABOLIC SECTIONS

GENERAL NOTES

- A. GENERAL PAVEMENT THICKNESS FOR STREETS SHALL BE AS SPECIFIED BELOW IN SPECIAL NOTES.
- B. STANDARD SPECIFICATIONS REINFORCED CONCRETE PAVEMENTS
 - ALL CURBS SHALL BE PLACED INTEGRAL WITH PAVEMENT
 - CURBS SHALL MEET THE SAME COMPRESSIVE STRENGTH AS SPECIFIED FOR THE CONCRETE PAVEMENT.
 - DETAIL AND ARRANGEMENT OF JOINTS, ALL TYPES, SHALL BE AS SHOWN ON THE STANDARD CONSTRUCTION DETAILS, OR AS APPROVED BY ENGINEER.
 - BAR LAPS SHALL BE 30 DIAMETERS.
- C. BAR CHAIRS OR AN APPROVED SUPPORTING DEVICE SHALL BE FURNISHED.



TYPICAL JOINT DETAIL

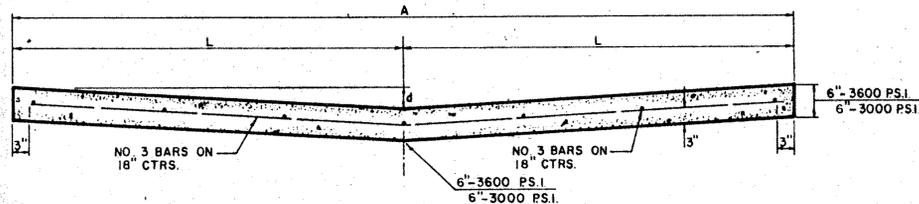
TOWN OF ADDISON, TEXAS
DEPARTMENT OF ENGINEERING

**STANDARD CONSTRUCTION DETAILS
PAVING**

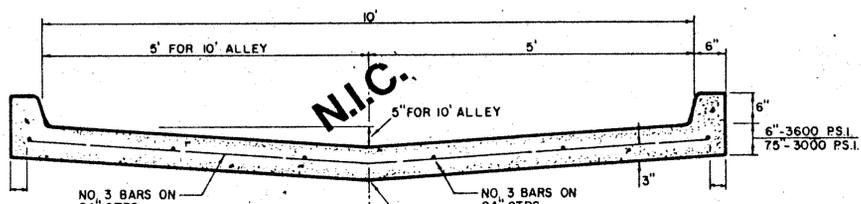
STREET CROWNS & JOINTS

Designed -	Drawn -	Date - AUGUST, 1991	Job No. -
Approved -	Checked -	Scale -	Sheet D-1 of

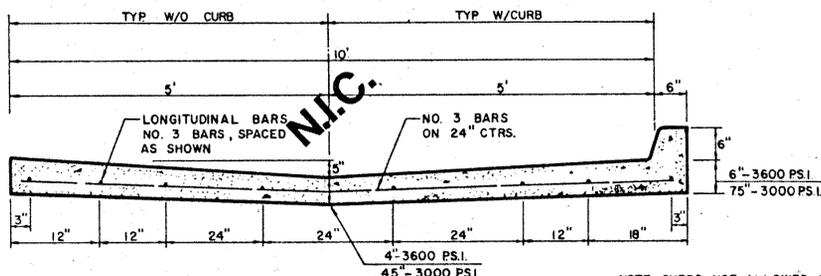
ALLEY WIDTH (A)	HALF SECTION WIDTH (L)	INVERT DEPTH (d)
10'	5'	4"
12'	6'	6"
16'	8'	6"
20'	10'	6"



STANDARD 10', 12', 16', & 20' ALLEY SECTION

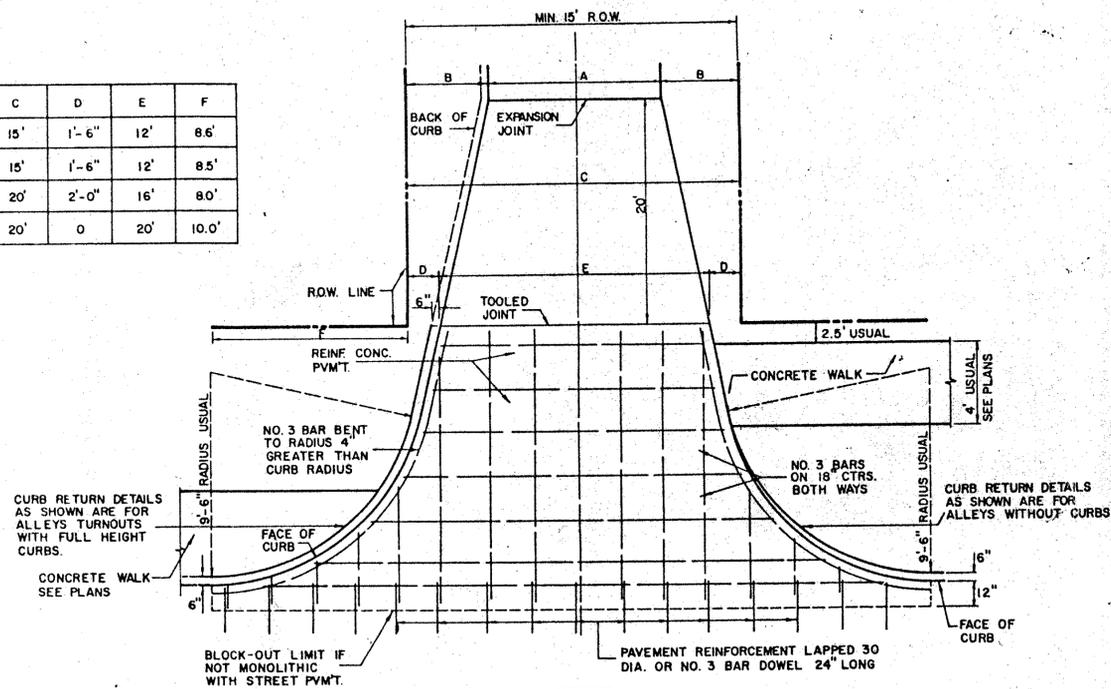


STANDARD ALLEY SECTION WITH CURBS

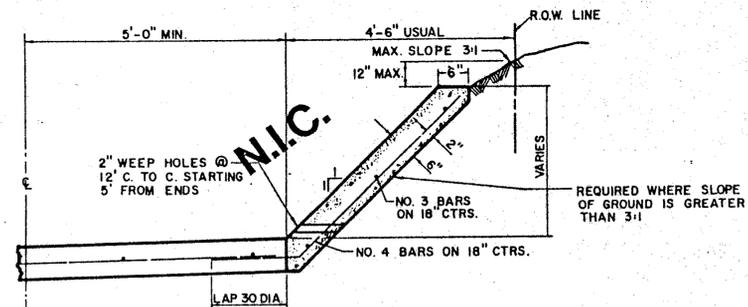


ALTERNATE 10' ALLEY SECTION / CURB

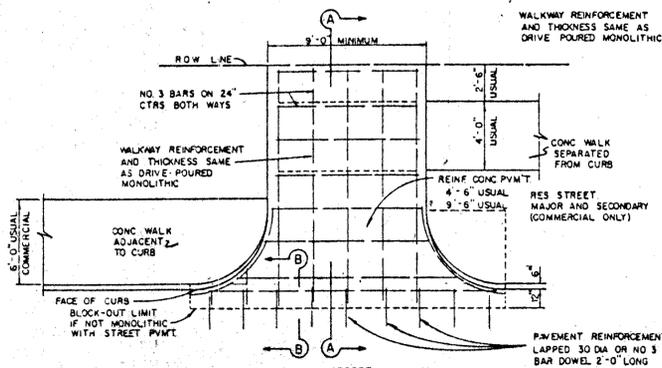
ALLEY WIDTH	A	B	C	D	E	F
10'	10'	2'-6"	15'	1'-6"	12'	8.6'
12'	12'	1'-6"	15'	1'-6"	12'	8.5'
16'	16'	2'-0"	20'	2'-0"	16'	8.0'
20'	20'	0	20'	0	20'	10.0'



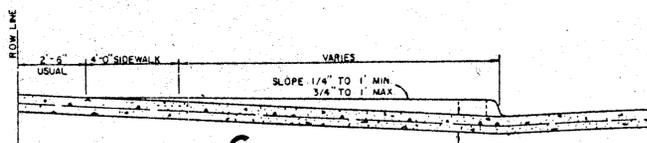
ALLEY RETURN DETAILS
FOR DETAILS ONLY-SEE PLAN FOR DIMENSIONS



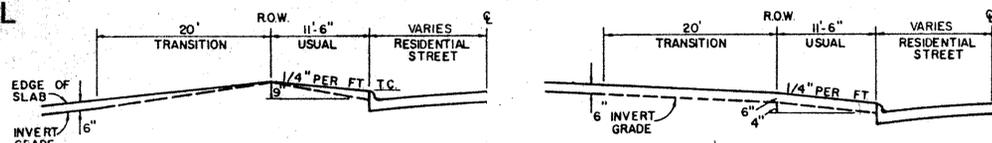
ALLEY SLOPE PROTECTION



DRIVEWAY RETURN TO STREET



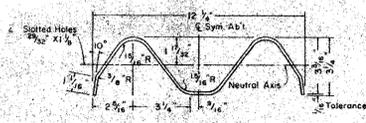
DRIVEWAY RETURN DETAILS



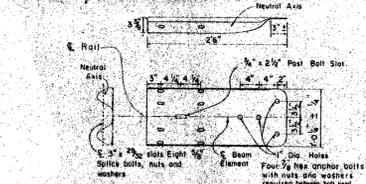
TYPE I ALLEY ENTRANCE

TYPE II ALLEY ENTRANCE

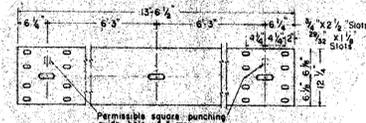
N.I.C.



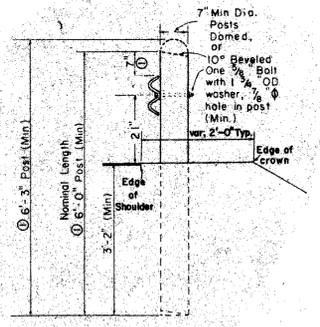
SECTION THRU GUARD RAIL AND BACK-UP PLATE



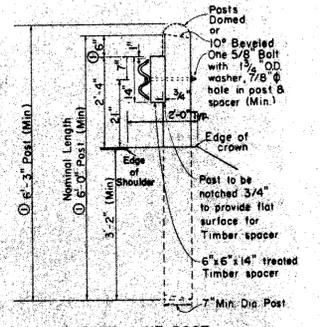
TERMINAL CONNECTOR



ELEVATION OF NOMINAL 12 1/2 FOOT GUARD RAIL



WOOD LINE POST



WOOD LINE POST (Blockout)

BARRICADE DETAIL

GENERAL NOTES FOR ALLEYS AND DRIVEWAYS

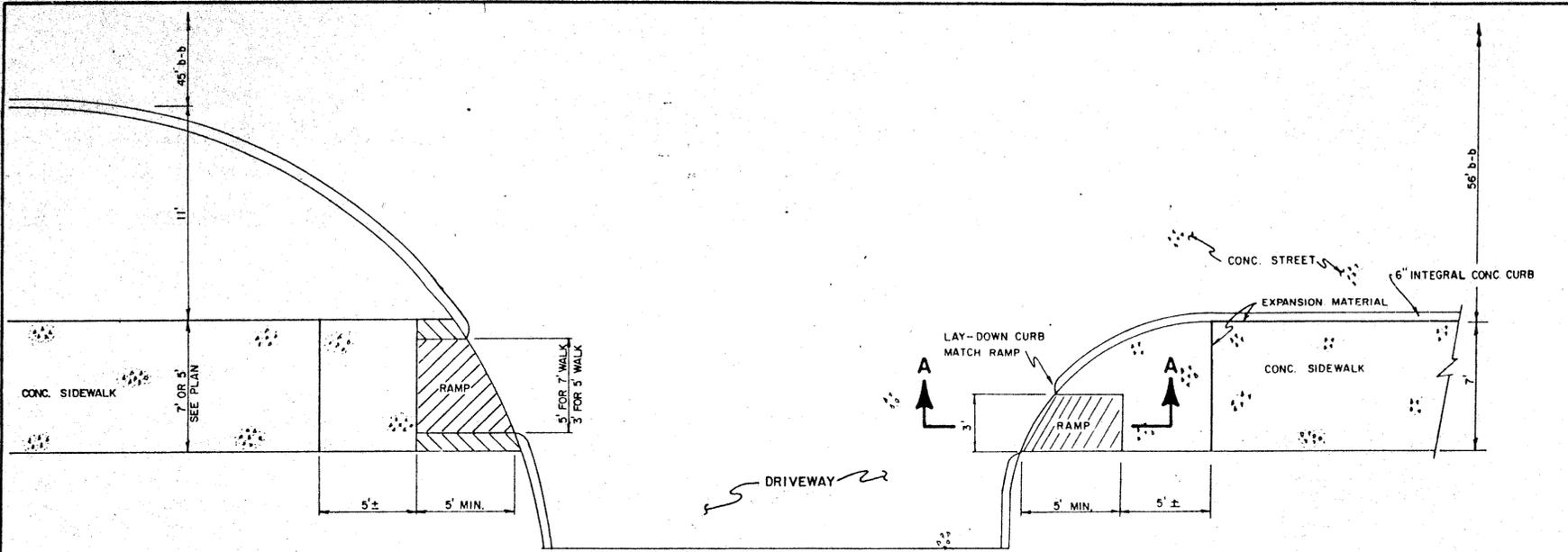
1. CONCRETE FOR ALLEY RETURNS AND DRIVEWAYS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS IDENTICAL TO THAT SPECIFIED FOR THE STREET PAVEMENT OR BASE WHEN BUILT AS COMPONENTS OF A CONCRETE PAVING PROJECT. WHEN BUILT SEPARATELY, THE STRENGTH SHALL BE AS SPECIFIED ON THE CONSTRUCTION PLANS.
2. CONCRETE FOR ALLEY PAVEMENT SHALL BE OF THE STRENGTH SPECIFIED ON THE CONSTRUCTION PLANS. (3000 P.S.I. OR 3600 P.S.I. MINIMUM COMPRESSIVE.)
3. SPACING AND CONSTRUCTION OF JOINTS SHALL CONFORM TO STREET PAVEMENT DETAILS.

TOWN OF ADDISON, TEXAS
DEPARTMENT OF ENGINEERING

STANDARD CONSTRUCTION DETAILS
PAVING

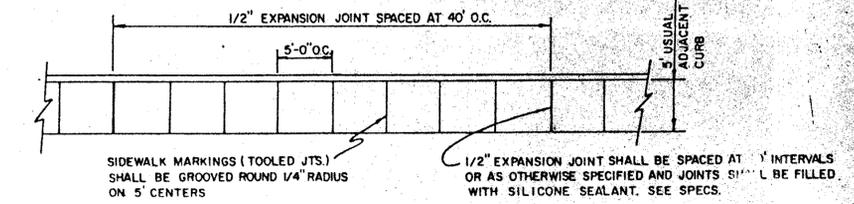
ALLEY & DRIVEWAY RETURNS

Designed -	Drawn -	Date - AUGUST, 1991	Job No. -
Approved -	Checked -	Scale -	Sheet JJ-2 OF

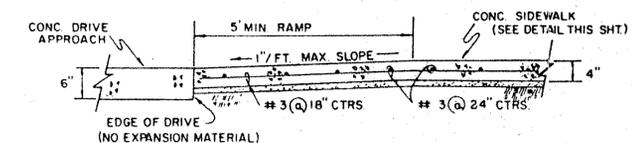


PLAN

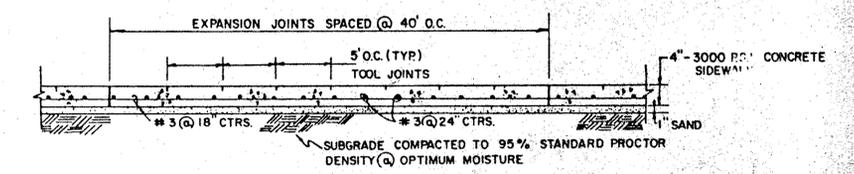
NOTE:
MODIFY RAMP TO
FIT DIFFERENT RADIUS



PLAN

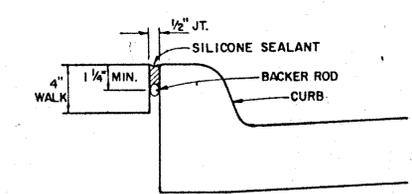


SECTION A-A

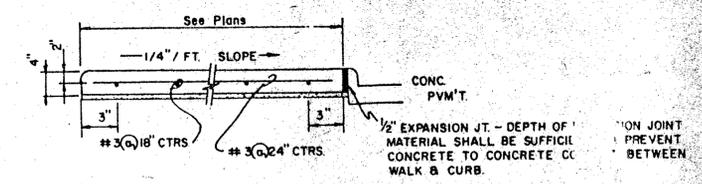


SIDE ELEVATION

**BARRIER-FREE RAMP DETAIL
WITH WALK ADJACENT TO CURB**

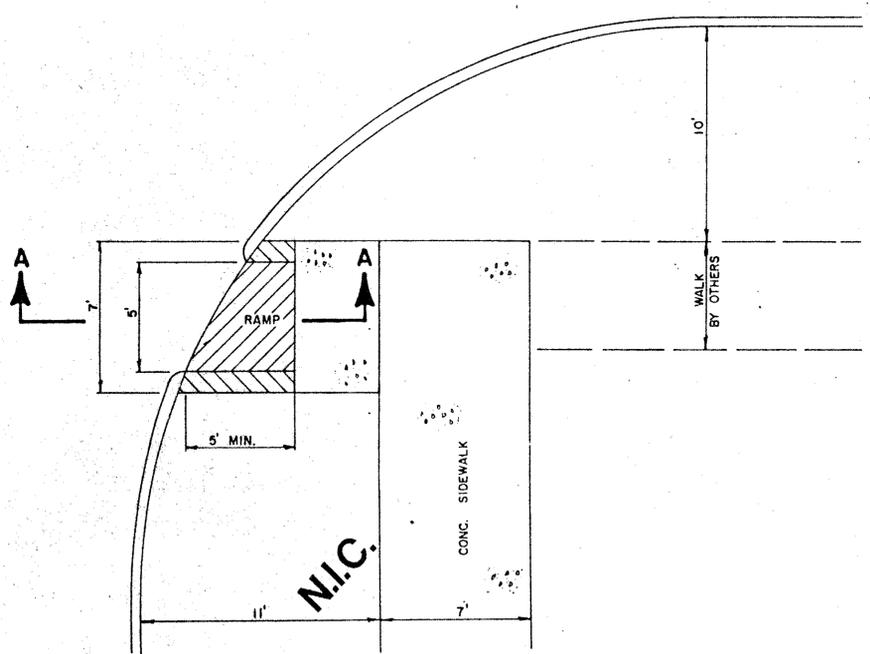


EXPANSION JOINT DETAIL

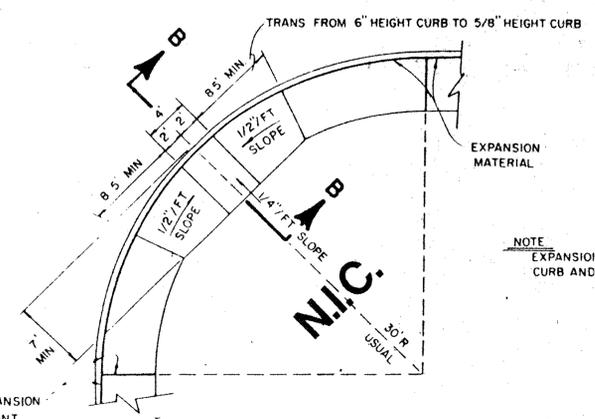


SECTION

CONCRETE SIDEWALK DETAIL

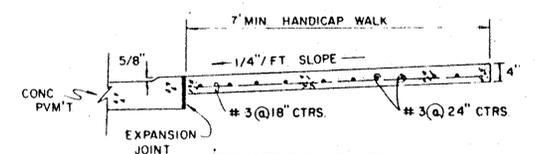


**BARRIER FREE RAMP DETAIL
WITH WALK SEPARATE FROM CURB**



PLAN

NOTE:
EXPANSION MATERIAL ALONG
CURB AND AT CURB RETURNS



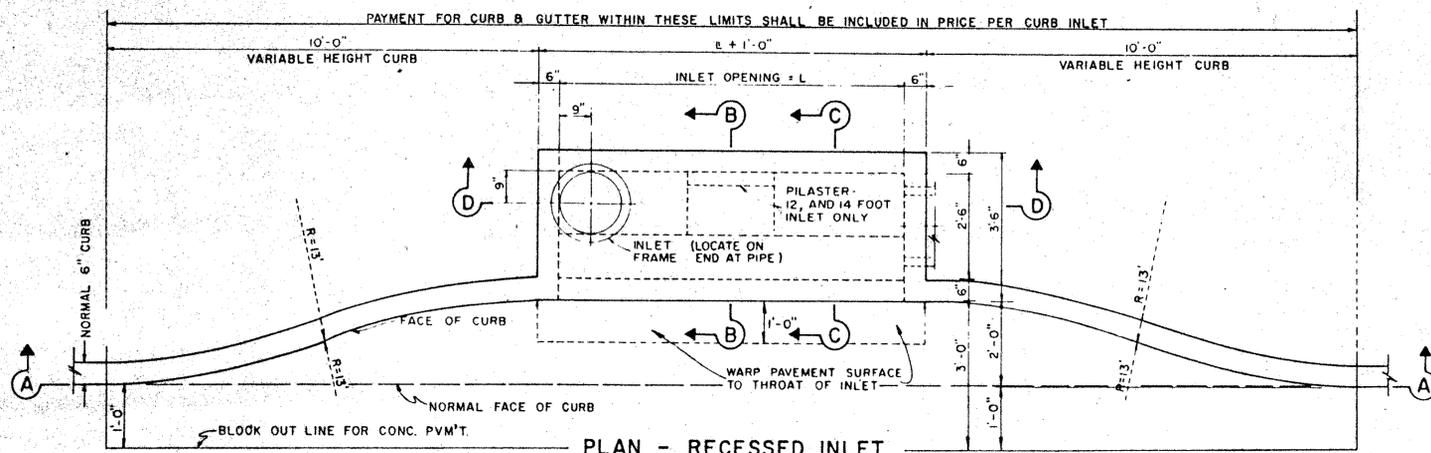
SECTION B-B

HANDICAP ROLL-DOWN CURB DETAIL

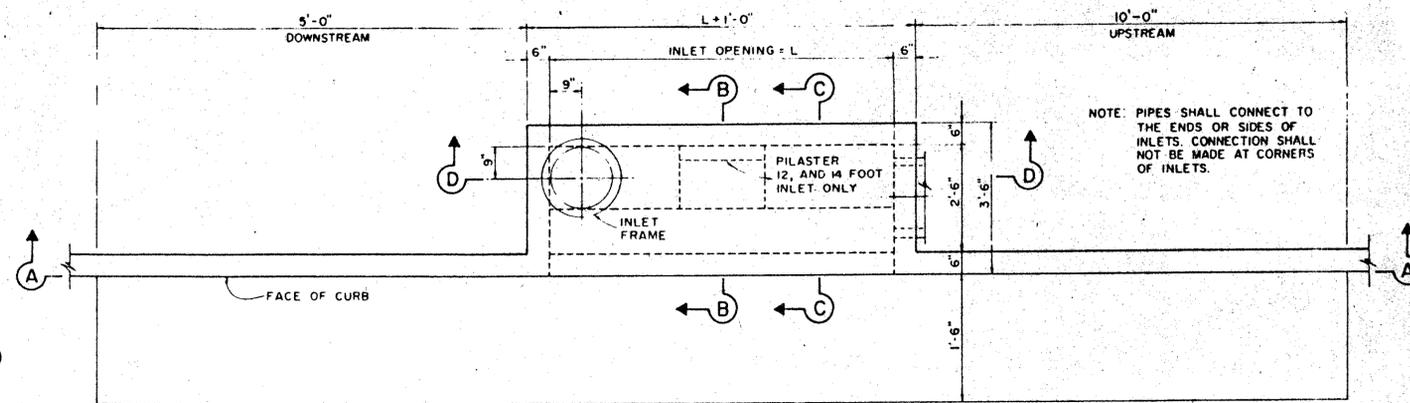
GENERAL NOTES

1. Reinforced concrete sidewalk shall be 5 or 7 feet wide, a minimum of four (4) inches thick and shall be 3000 psi at 28 days (5 sack mix). Unless noted otherwise.
2. Chamfer all exposed edges of concrete (1/4) inch.
3. All bar dimensions are given as center to center of bars and are located as shown.
4. All reinforcing steel shall be No. 3 on 18 inch centers longitudinally, 24 inch centers transversely and shall conform to the requirements of ASTM A-615, Grade 60.
5. 1" thick min. fine, washed sand cushion shall be free from organic materials or clays and shall be used for grade adjustment.
6. Subgrade shall be compacted to a density not less than 95% at optimum moisture.
7. Tooled joints (contraction joints) shall be on five (5) foot centers and shall be round one-fourth (1/4) inch radius.
8. A one-half (1/2) inch expansion joint shall be placed every eight (8) tooled joints, and where works abut old work, or where new work is constructed adjacent to other concrete, a one-half inch expansion joint shall be used where sidewalk is adjacent to curb, the expansion joint shall be made of pre-molded bituminous expansion joint filler or redwood with silicone sealant. See Specs.
9. Sidewalks shall be finished by lightly brooming surface transversely to direction of main traffic or where adjacent sidewalks differ from this standard, new sidewalks shall conform to adjacent sidewalk (e.g. exposed aggregate).
10. Cross slope walk one-fourth (1/4) inch per foot towards curb or as shown on the drawings to provide drainage.

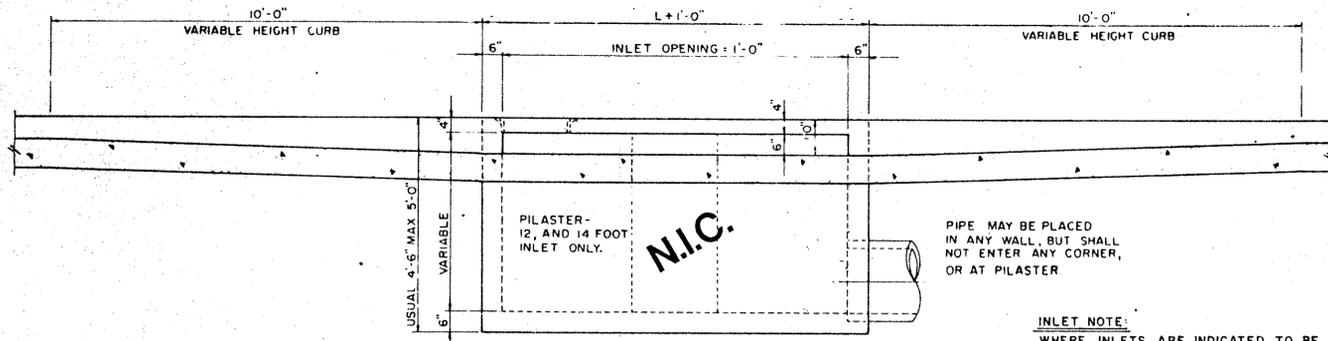
NO.	REVISION	BY	DATE
TOWN OF ADDISON, TEXAS DEPARTMENT OF ENGINEERING			
STANDARD CONSTRUCTION DETAILS PAVING			
SIDEWALKS & RAMPS			
APPROVED _____			
DATE AUGUST, 1991		SHEET D-3	



PLAN - RECESSED INLET

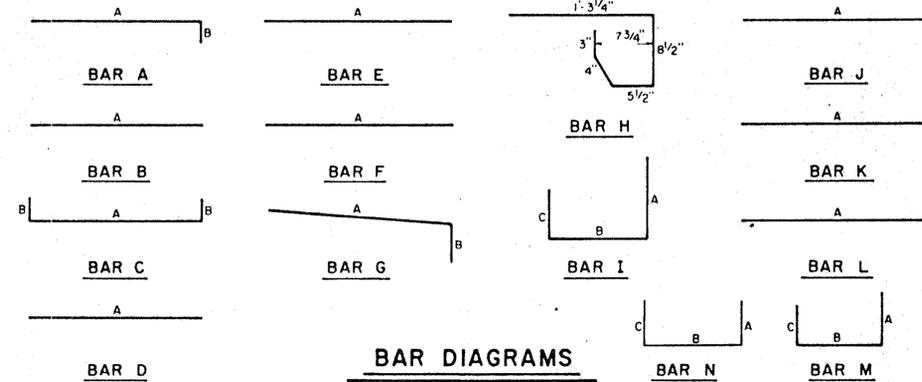


PLAN - STANDARD INLET



SECTION A-A - RECESSED AND STANDARD INLETS
4, 6, 8, 10, 12, AND 14 FOOT INLETS

INLET NOTE:
WHERE INLETS ARE INDICATED TO BE MODIFIED, REFER TO PLAN/PROFILE SHEETS FOR ELEV. DIFFERENT SIZES OR MODIFICATIONS. ALL OTHER ITEMS SHALL REMAIN AS SHOWN ON THIS STANDARD DETAIL SHEET.



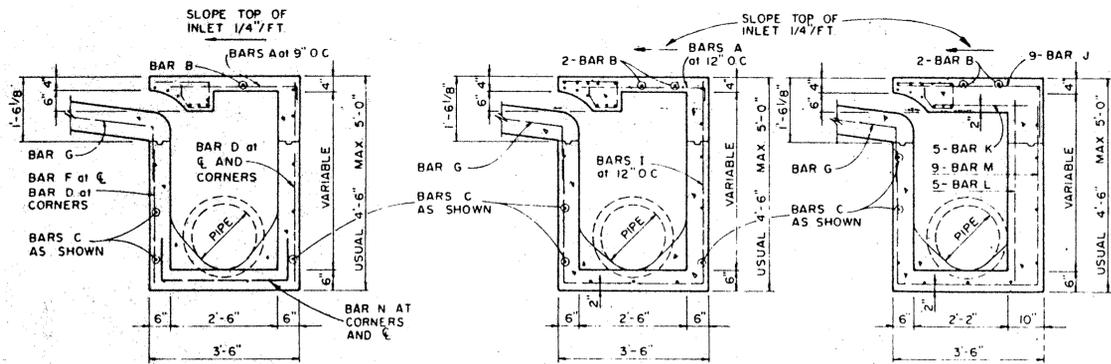
BAR DIAGRAMS

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"	-
	H	3	4	*	*	*
	N	3	3	3'-2"	3'-2"	3'-2"
6	A	3	9	3'-2"	0'-3"	-
	B	3	1	4'-10"	-	-
	C	4	15	6'-8"	0'-6"	-
	D	4	5	4'-8"	-	-
	F	4	1	3'-2"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	6	*	*	*
	N	3	3	3'-2"	3'-2"	3'-2"
8	A	3	12	3'-2"	0'-3"	-
	B	3	1	6'-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	8	*	*	*
	N	3	3	3'-2"	3'-2"	3'-2"
10	A	3	10	3'-2"	0'-3"	-
	B	3	2	8'-10"	-	-
	C	4	16	10'-8"	0'-6"	-
	D	4	4	4'-8"	-	-
	E	5	6	12'-8"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	15	*	*	*
	I	4	8	4'-8"	3'-2"	3'-2"
	L	4	5	4'-3"	-	-
12	A	3	12	3'-2"	0'-3"	-
	B	3	2	10'-10"	-	-
	C	4	16	12'-8"	0'-6"	-
	D	4	4	4'-8"	-	-
	E	5	6	12'-8"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	18	*	*	*
	I	4	10	4'-8"	3'-2"	3'-2"
	J	5	9	3'-2"	1'-3"	-
	K	4	5	2'-3"	-	-
	L	4	5	4'-3"	-	-
	M	5	9	4'-3"	3'-2"	3'-9"
14	A	3	14	3'-2"	0'-3"	-
	B	3	2	10'-10"	-	-
	C	4	16	14'-8"	0'-6"	-
	D	4	4	4'-8"	-	-
	E	5	6	14'-8"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	21	*	*	*
	I	4	12	4'-8"	3'-2"	3'-2"
	J	5	9	3'-2"	1'-3"	-
	K	4	5	2'-3"	-	-
	L	4	5	4'-3"	-	-
	M	5	9	4'-3"	3'-2"	3'-9"

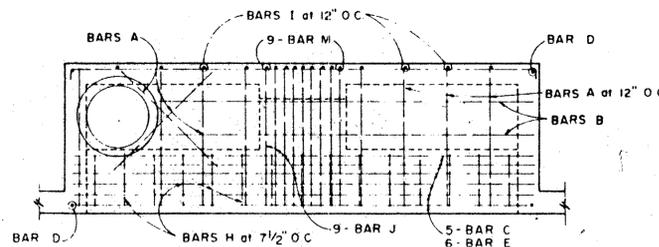
* SEE DIAGRAM FOR DIMENSIONS



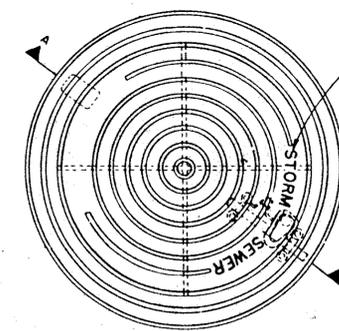
SECTION B-B

SECTION C-C

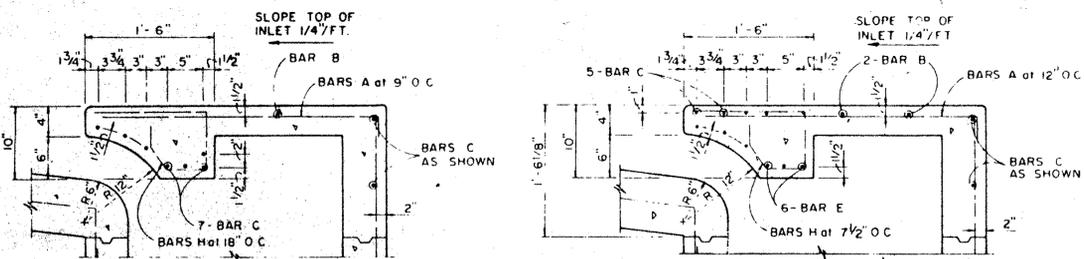
SECTION B-B



PLAN



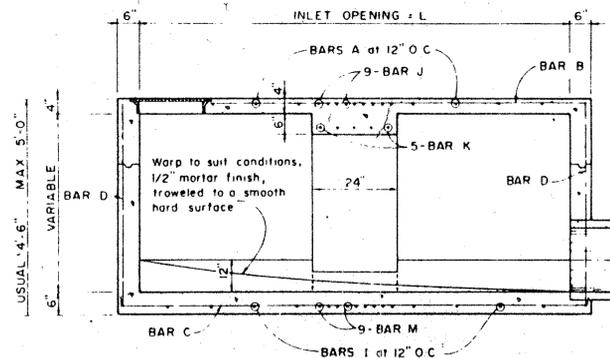
PLAN OF FRAME



SECTION C-C

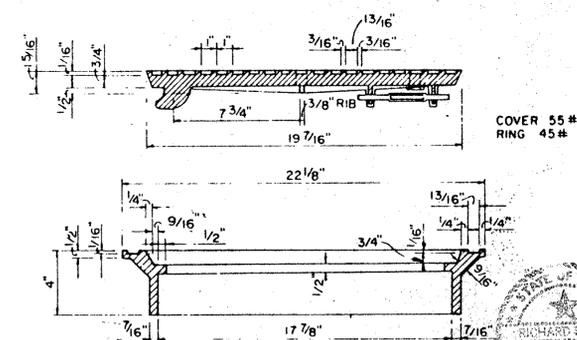
SECTION C-C

4, 6, AND 8 FOOT INLETS



SECTION D-D FOR 12' & 14' ONLY

10, 12, AND 14 FOOT INLETS

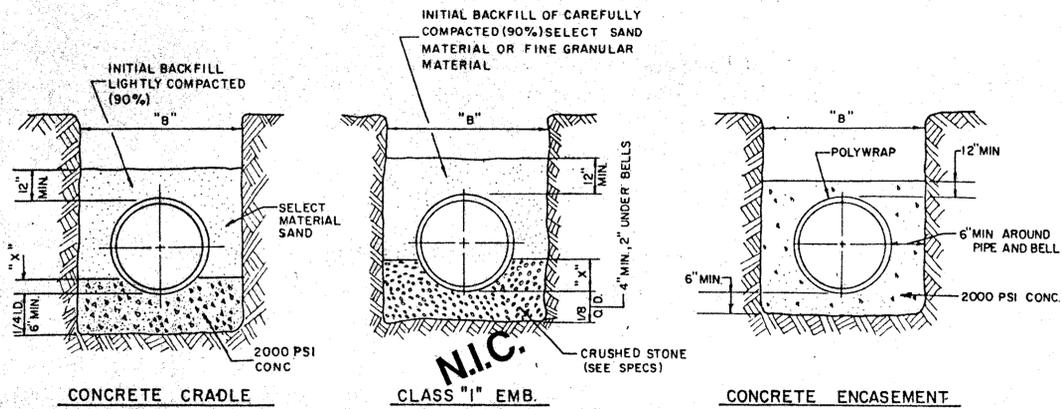


SECTION OF FRAME AND COVER

INLET FRAME AND COVER

TOWN OF ADDISON, TEXAS
DEPARTMENT OF ENGINEERING
STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE
CURB INLETS

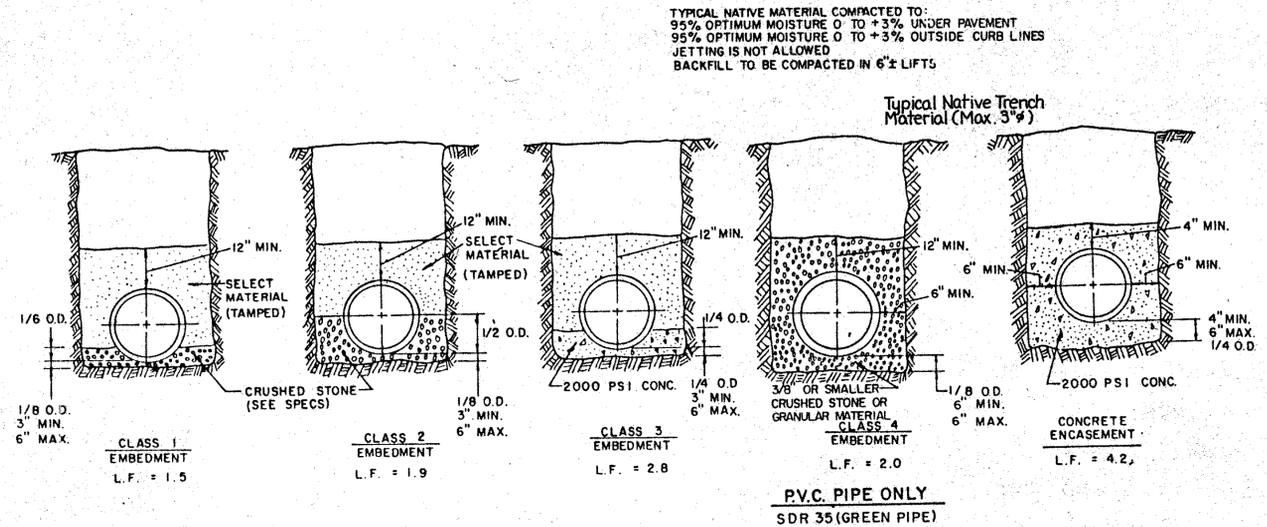
Designed - _____ Date - JULY, 1991
Drawn - _____
Checked - _____
Approved - _____
Job No. - _____
Sheet D-4 OF _____



EMBEDMENT DETAILS FOR RCCP WATERLINE

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

INSIDE DIAMETER OF PIPE	APPROX OUTSIDE DIAMETER OF PIPE	"A" IS A MINIMUM DEPTH	"B" TRENCH WIDTH FOR COMPUTATION OF QUANTITIES	CONCRETE		CRUSHED STONE FOR CLASS 1 EMBEDMENT
				FOR EMBEDMENT	FOR ENCASEMENT	
REINFORCED CONCRETE CYLINDER PIPE						
14"	17.25"	2.53'	34"	6.91	16.07	5.16
16"	19.38"	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

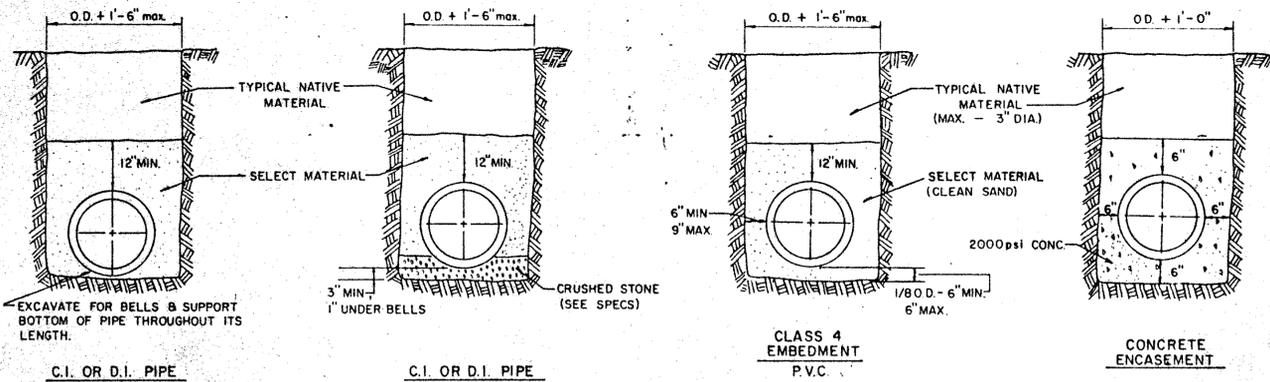
TABLE OF QUANTITIES PER 100 LINEAR FEET REINFORCED CONCRETE PIPE

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

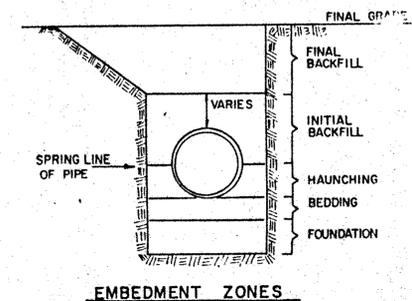
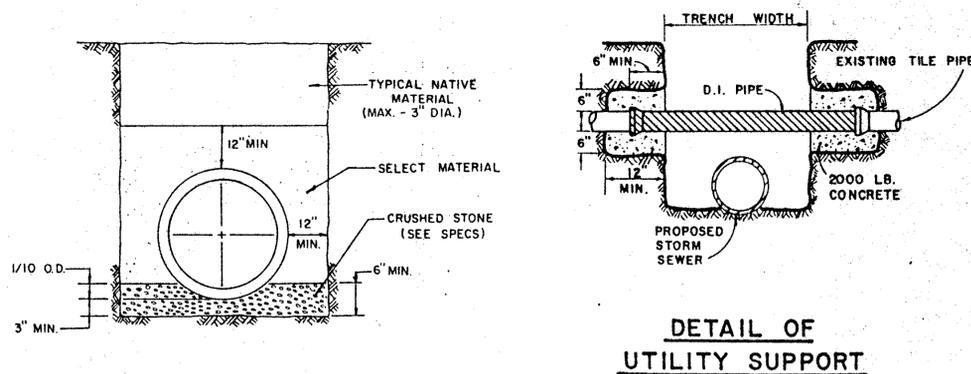
TABLE OF QUANTITIES PER 100 LINEAR FEET-PVC PIPE (IN CUBIC YARDS)

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		

NOTE: ALL SANITARY SEWER LINES THIS PROJECT SHALL HAVE CLASS 4 EMBEDMENT UNLESS OTHERWISE NOTED.



EMBEDMENT DETAILS FOR WATER MAIN

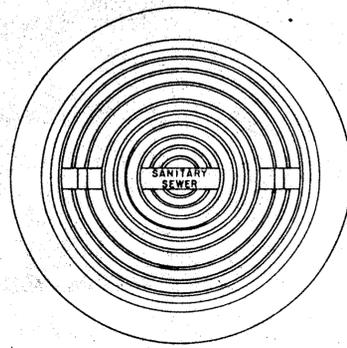


TOWN OF ADDISON, TEXAS
DEPARTMENT OF ENGINEERING

STANDARD CONSTRUCTION DETAILS

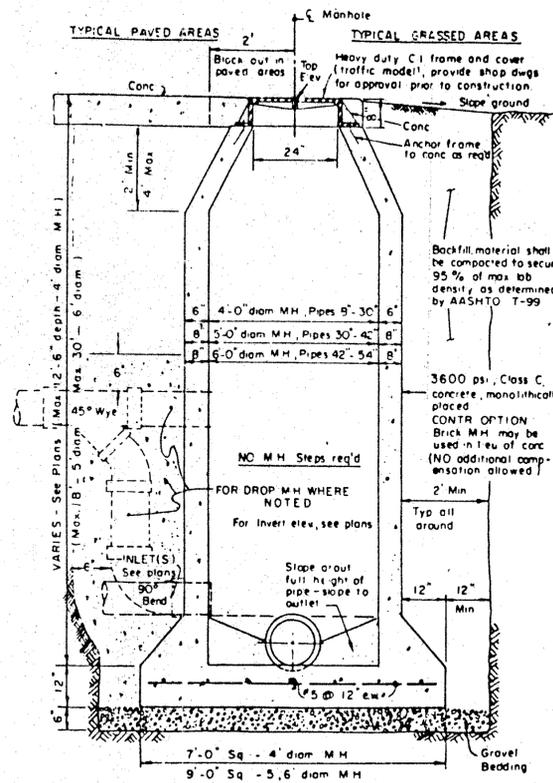
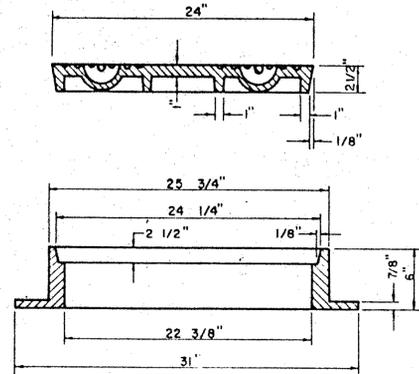
EMBEDMENT DETAILS

Designed -	Drawn -	Date - AUGUST, 1991	Job No. -
Approved -	Checked -	Scale -	Sheet D-5 of



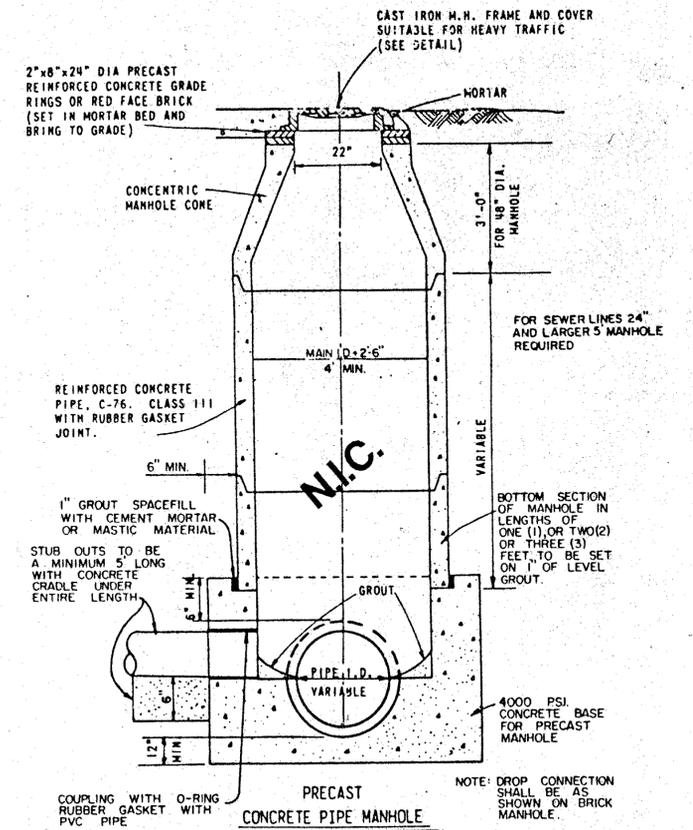
APPROX.
WEIGHT
RING AND COVER
385 LBS.

CAST IRON GRATE AND FRAME DETAIL

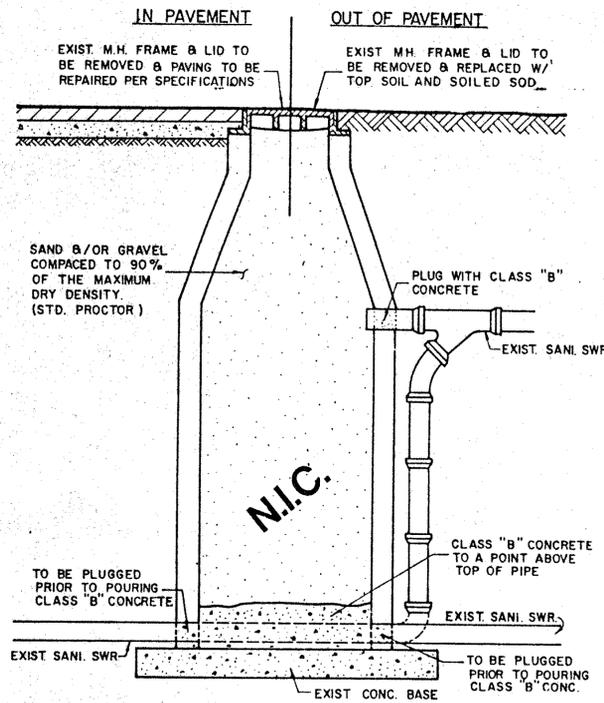


CAST IN PLACE MANHOLE

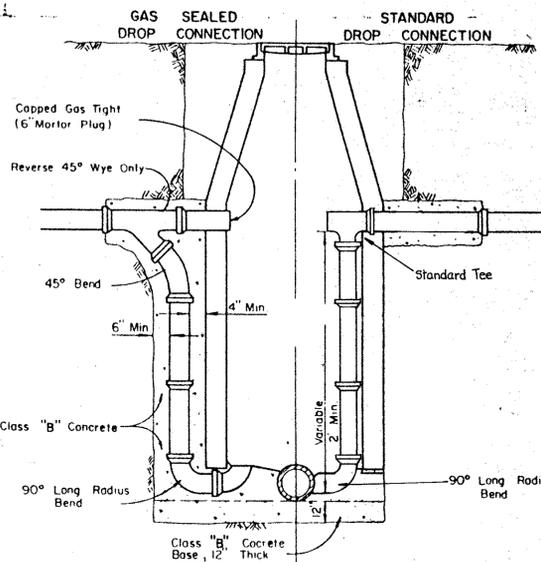
WHERE DROP M.H. IS REQUIRED, USE INSIDE DROP CONNECTION AS PER TOWN OF ADDISON STANDARDS.



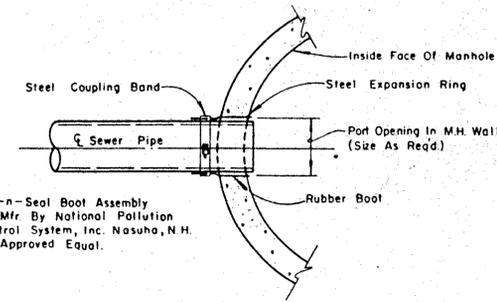
PRECAST MANHOLE



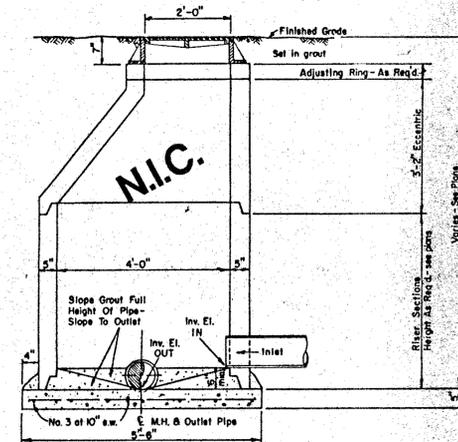
ABANDONMENT OF EXISTING MANHOLE
IN AND OUT OF PAVEMENT



DROP CONNECTIONS FOR
SANITARY SEWER MANHOLES



TYPICAL SEWER
CONNECTION AT MANHOLE



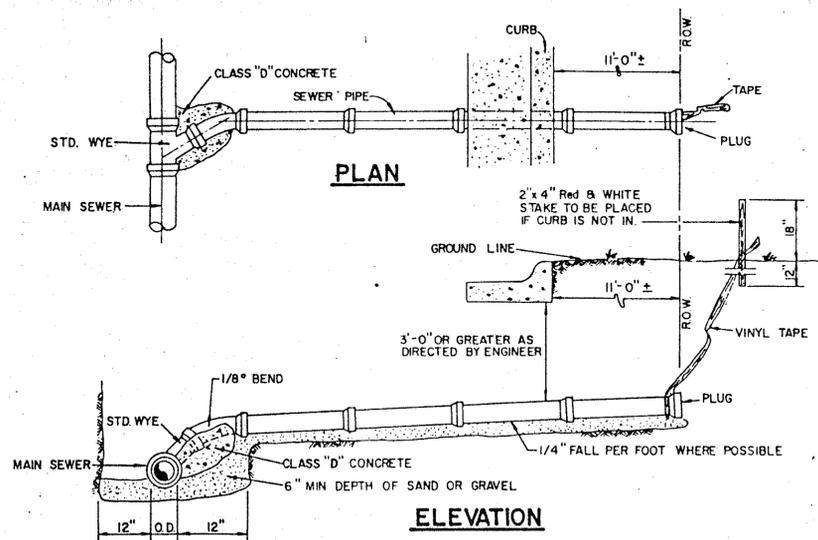
ECCENTRIC MANHOLE DETAIL

NOTE:
Contractor To Install Kor-n-Seal Boot Assembly Per Mfr. Recommendations In A Neat And Workman-Like Manner.

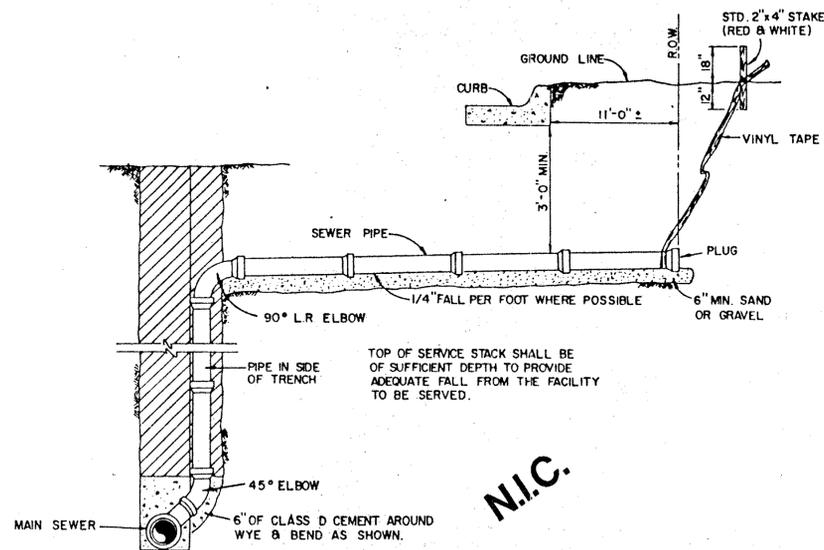
CLASS B Conc. - 2000psi at 28 days(Compressive)

TOWN OF ADDISON, TEXAS
DEPARTMENT OF ENGINEERING
**STANDARD CONSTRUCTION DETAILS
SANITARY SEWER
MANHOLES AND CONNECTIONS**

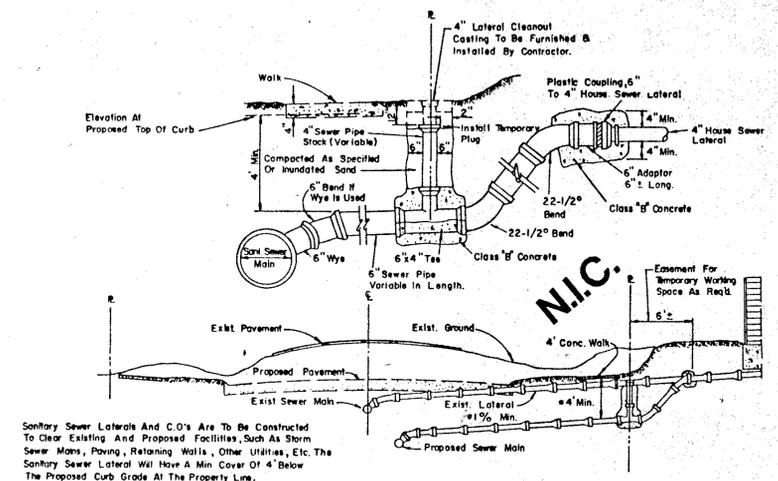
Designed -	Drawn -	Date - JULY, 1991	Job No. -
Approved -	Checked -	Scale -	Sheet D-6 OF



SANITARY SEWER SERVICE CONNECTION

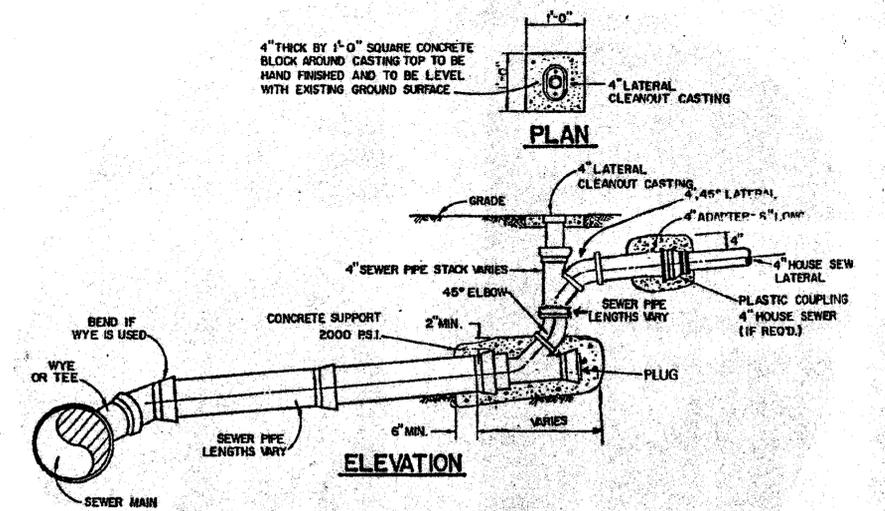
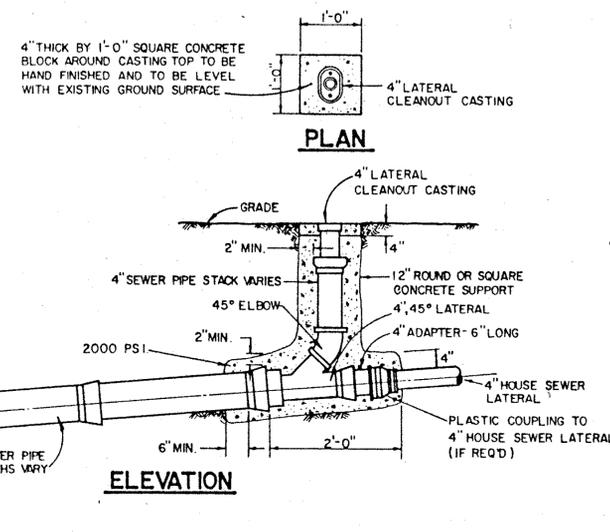


SANITARY SEWER DEEP SERVICE CONNECTION

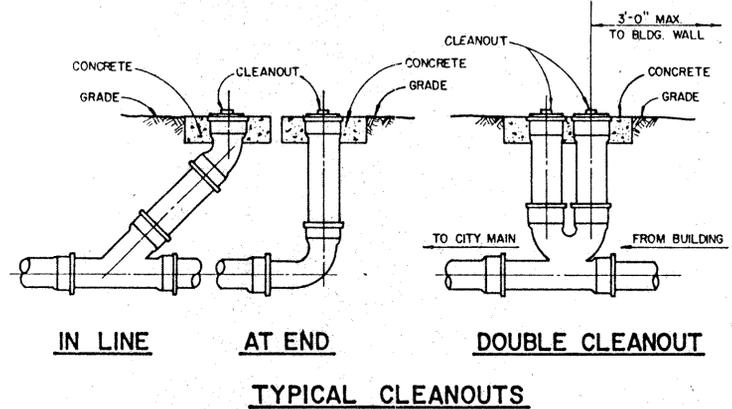


SANITARY SEWER LATERAL REPLACEMENT

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.

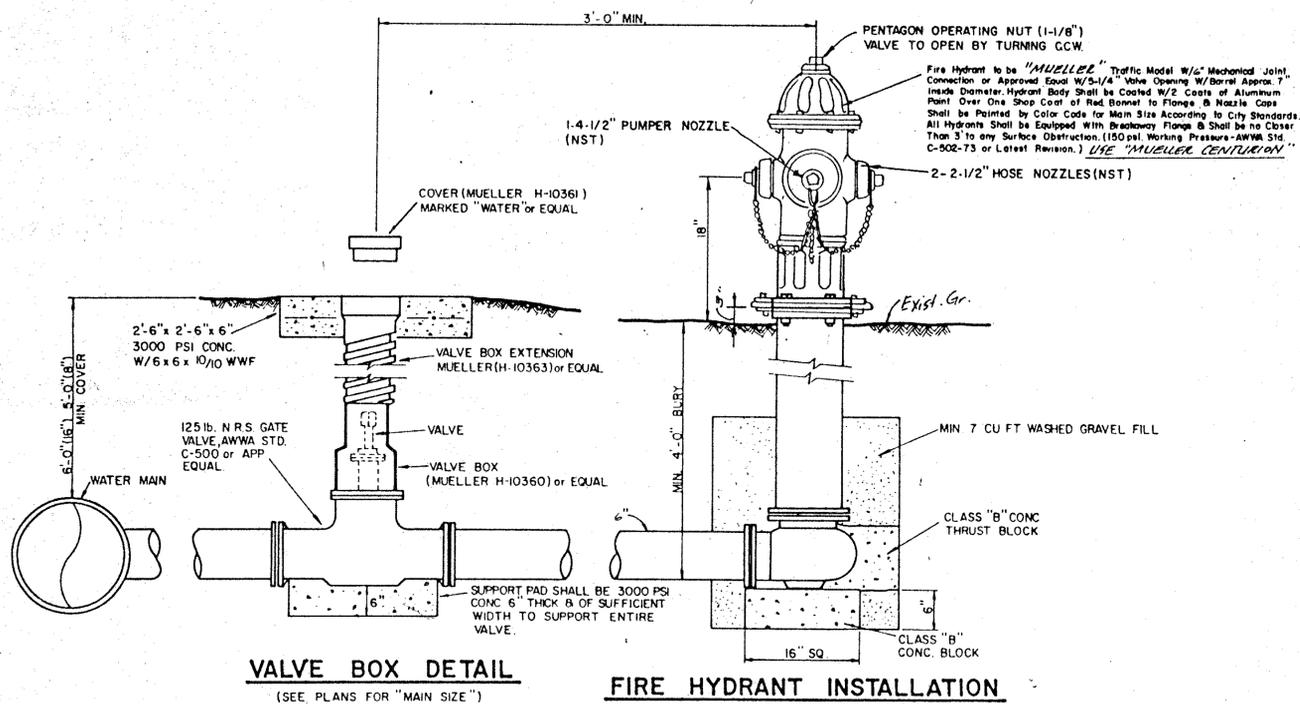


ALL PVC SANITARY SEWER PIPE TO BE SDR 35 WITH INTEGRAL BELL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE HORIZONTALLY EACH 4' SERVICE IN RELATION TO THE SANITARY SEWER STATIONING.



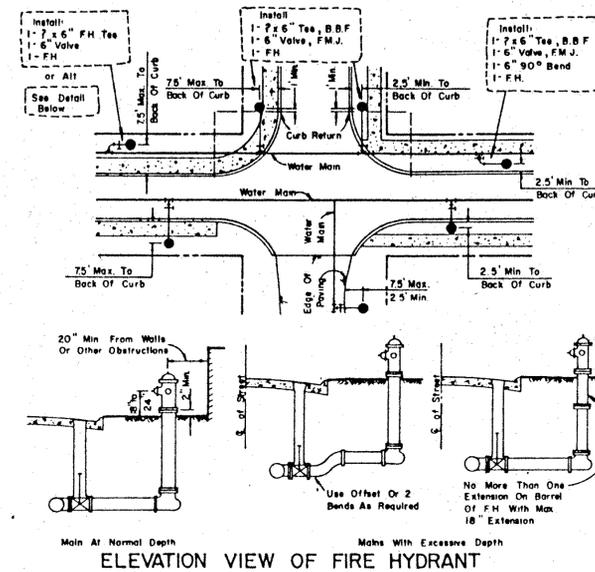
ALL PVC SANITARY SEWER PIPE TO BE SDR 35 WITH INTEGRAL BELL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE HORIZONTALLY EACH 4' SERVICE IN RELATION TO THE SANITARY SEWER STATIONING. FIELD TIES ARE TO BE INCLUDED AND RECORDED ON ALUMINIZED SANITARY SEWER TAPE. THIS TAPE, GREEN OR RED 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 - JULY, 1991	Job No. -
Approved -	Checked -	Scale -	Sheet D-7 OF



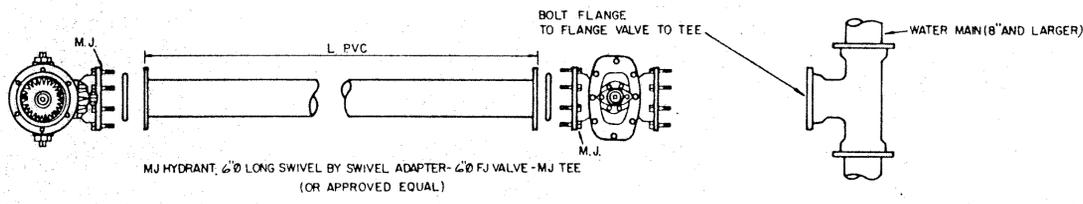
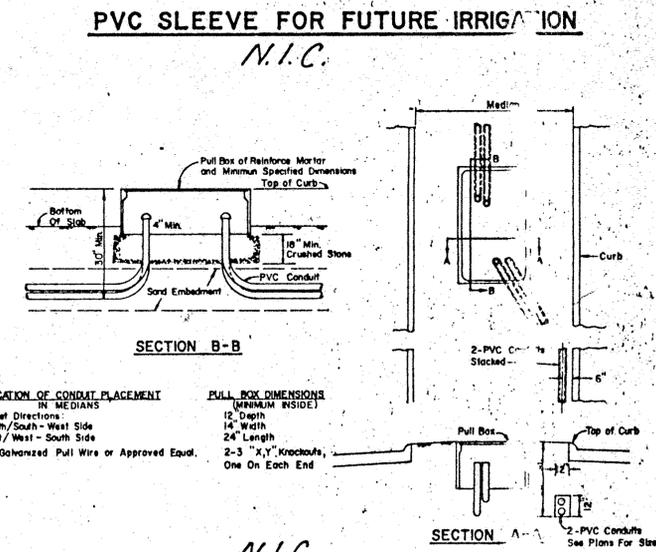
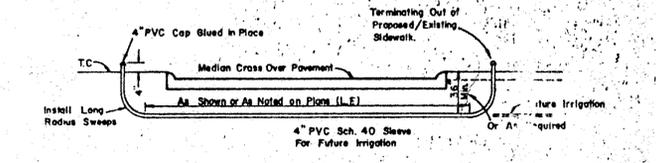
GATE VALVES AND VALVE BOXES.

- 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.
- 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.

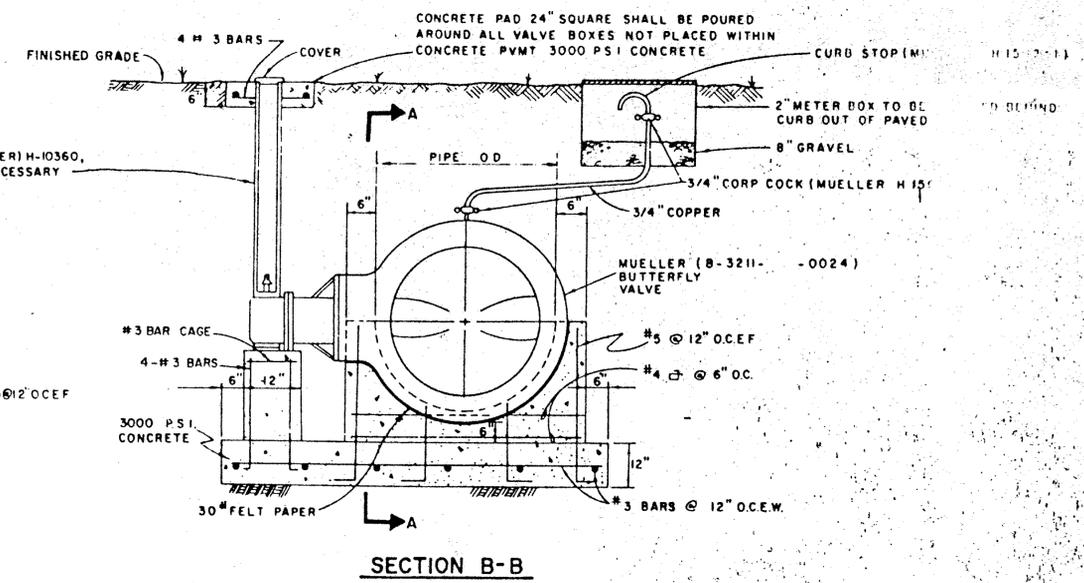
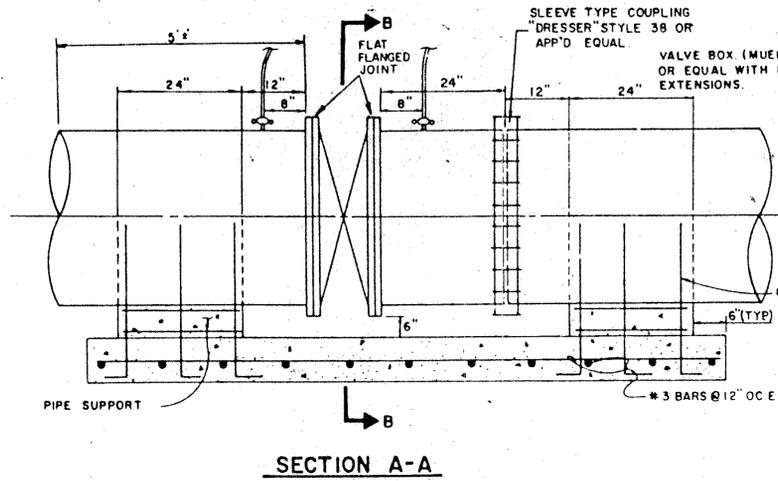
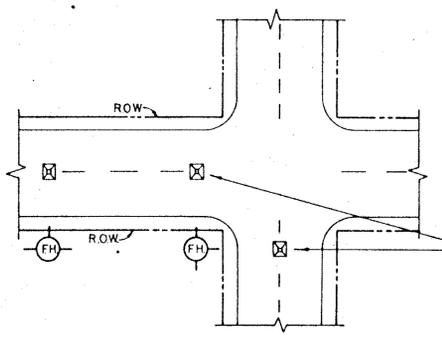


GENERAL NOTES

- 6" O.D. F.H. BARREL SHALL BE NOT LESS THAN 6.0' OR MORE THAN 9.0' FROM BACK OF CURB OR EDGE OF PAVEMENT.
- DO NOT SET F.H. IN AN EXISTING OR PROPOSED SIDEWALK, UNLESS OTHERWISE NOTED.
- ALL F.H. TEES SHALL BE M.J. WITH ANCHORING ON THE BRANCH WITH M.J. M.J. 6" VALVE.
- SET F.H. ON THE LOT LINE EXTENDED WHEN POSSIBLE.
- ON PRIVATE CONTRACT, THE DEVELOPER'S ENGINEER WILL STATE LOCATION B GRADE.
- NEVER PLACE F.H. WHERE FIRE TRUCK COULD NOT PARK BEHIND IT.

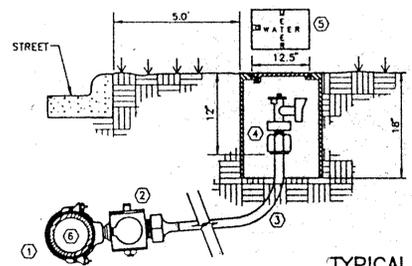


TYPICAL FIRE HYDRANT REFLECTOR INSTALLATION



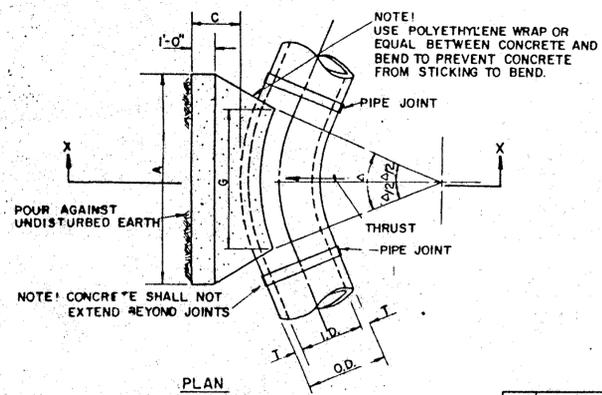
BUTTERFLY VALVE DETAIL

N.I.C.

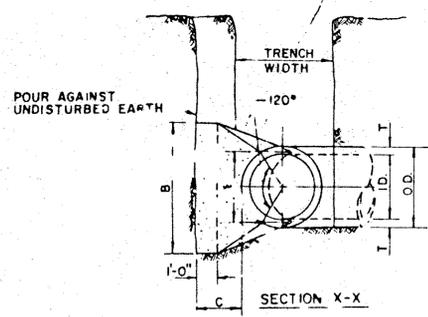


- DOUBLE STRAP BRONZE SADDLE W/CCW THREADS. MUELLER.
- CORPORATION STOP W/CCW THREADS. MUELLER. H-15008 COMPRESSION OR H-15000 FLARED.
- 1" TYPE "X" SOFT COPPER W/NO SPLICES
- ANGLE STOP W/LOCK WING. MUELLER. H-14258 COMPRESSION OR H-14255 FLARED.
- WATER METER BOX (RECTANGULAR SHAPE ONLY) CONCRETE OR METAL SHELL CONSTRUCTION
- 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 - AUGUST, 1991	Job No. -
Approved -	Checked -	Scale -	Sheet D-8 OF



I.D. (IN.)	T (IN.)	$\Delta = 11.25^\circ$			$\Delta = 22.50^\circ$		
		THRUST (TONS)	VOL. C.Y.	I.D. (IN.)	THRUST (TONS)	VOL. C.Y.	I.D. (IN.)
4.6, 8	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	1.5	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			

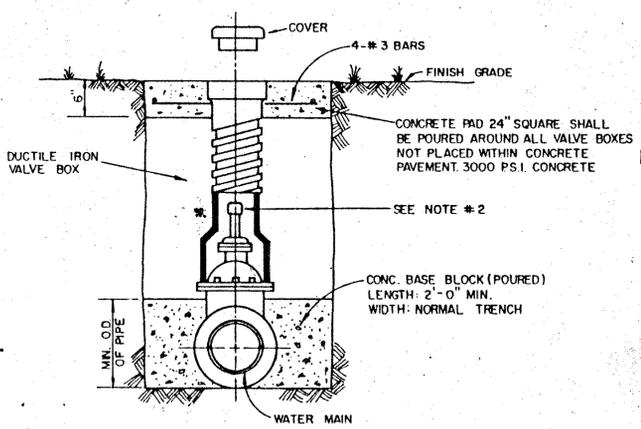
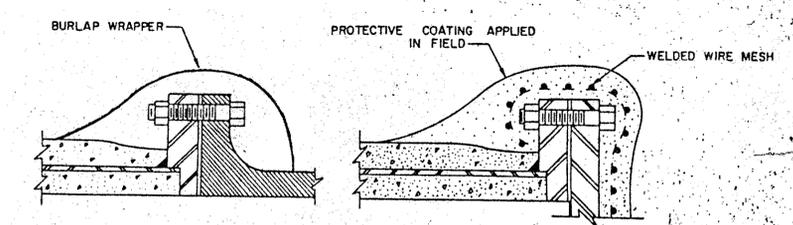
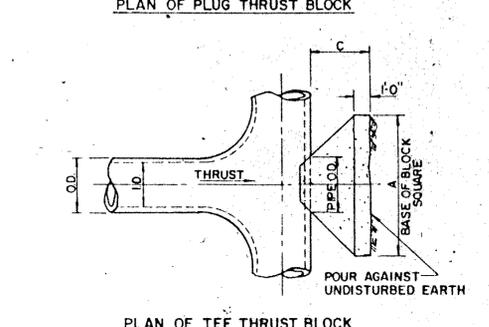
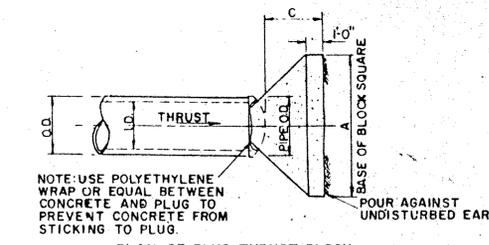
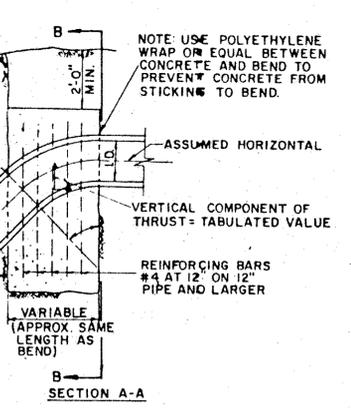
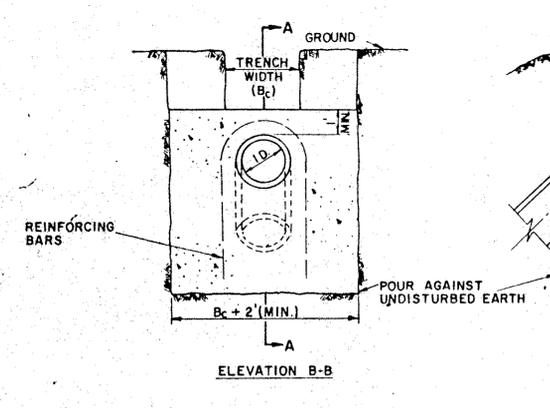
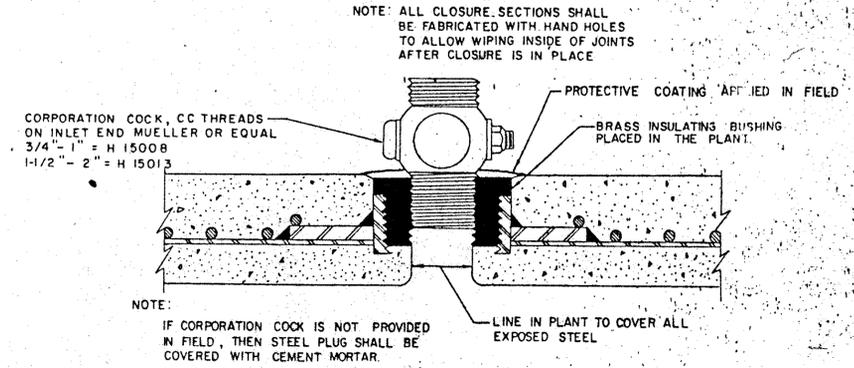
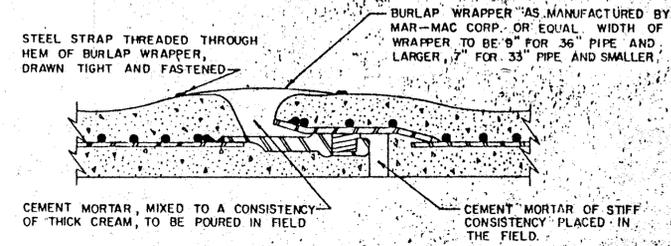


I.D. (IN.)	T (IN.)	$\Delta = 11.25^\circ$			$\Delta = 22.50^\circ$		
		THRUST (TONS)	VOL. C.Y.	I.D. (IN.)	THRUST (TONS)	VOL. C.Y.	I.D. (IN.)
4.6, 8	0.4	1.0	1.0	0.1	1.0	1.0	0.1
10.12	0.6	2.2	1.5	0.1	1.0	1.0	0.1
16.18	0.8	5.0	2.0	0.3	1.5	2.0	0.2
20	0.9	6.2	2.0	0.5	0.4	1.5	0.3
24	1.1	8.9	3.0	0.5	1.5	3.0	0.3
30	1.4	10.4	3.0	0.5	2.0	3.5	0.4
36	1.7	15.0	3.5	0.5	2.0	4.0	0.5
42	1.9	20.4	4.5	0.5	2.5	5.0	0.8
48	2.2	26.6	4.5	0.5	2.5	6.0	1.1
54	2.5	33.7	4.0	0.0	3.0	4.0	1.4
60	2.7	41.6	6.0	0.0	3.0	7.0	1.8
66	3.0	50.3	6.5	0.0	3.5	8.0	2.1
72	3.3	59.9	7.5	0.0	4.0	9.0	2.4
78	3.6	70.2	8.0	0.0	4.0	9.0	2.6
84	3.8	81.5	8.5	10.0	10.3	4.5	10.0
90	4.1	93.5	9.5	10.0	12.2	5.0	10.0
96	4.4	106.4	10.0	11.0	15.0	5.0	11.0

HORIZONTAL BEND THRUST BLOCK

I.D. (IN.)	T (IN.)	$\Delta = 30^\circ$			$\Delta = 48^\circ$			
		THRUST (TONS)	VOL. C.Y.	I.D. (IN.)	THRUST (TONS)	VOL. C.Y.	I.D. (IN.)	
4.6, 8	1.0	2.6	2.0	1.5	0.2	1.0	1.8	0.1
10.12	1.5	5.9	2.5	2.5	0.3	2.0	1.8	0.2
16.18	2.2	13.2	3.5	4.0	0.8	2.5	3.0	0.8
20	2.4	16.3	4.5	4.0	1.0	3.0	3.0	0.5
24	2.9	23.4	6.0	4.0	1.4	3.5	3.5	0.7
30	3.6	27.5	5.5	5.0	1.9	3.5	4.0	0.9
36	4.4	39.5	7.0	6.0	3.4	4.5	4.5	1.6
42	5.1	53.8	8.0	7.0	5.1	5.5	5.0	2.5
48	5.8	70.3	9.0	8.0	7.4	6.0	6.0	3.7
54	6.5	89.0	10.0	9.0	10.3	7.0	6.5	5.4
60	7.3	110.0	11.0	10.0	13.9	7.5	7.5	6.0
66	8.0	132.9	12.5	11.0	18.9	8.5	8.0	9.6
72	8.7	158.2	13.5	12.0	24.0	9.0	9.0	12.3
78	9.4	185.6	14.5	13.0	30.0	10.0	9.5	15.6
84	10.1	215.3	15.5	14.0	37.1	10.5	10.5	19.5
90	10.9	247.1	16.5	15.0	45.0	11.5	11.0	23.9
96	11.6	281.2	18.0	16.0	53.5	12.5	11.5	28.9

NOTE: PROVIDE 1" MINIMUM THICKNESS CONCRETE OR CEMENT MORTAR COATING IN THE FIELD FOR THE PROTECTION OF ALL EXPOSED STEEL SUCH AS FLANGES, CAULKED JOINTS, THREADED OUTLETS, CLOSURES, ETC. THE CEMENT MORTAR USED SHALL CONSIST OF ONE PART PORTLAND CEMENT TO TWO AND ONE-HALF PARTS OF FINE SHARP (PLASTER) SAND, WHERE SHOWN, COATING IS TO BE REINFORCED WITH WIRE MESH.



TOWN OF ADDISON, TEXAS
DEPARTMENT OF ENGINEERING

**STANDARD CONSTRUCTION DETAILS
WATER**

THRUST BLOCKS

Designed -
Approved -
Drawn -
Checked -
Date - JULY, 1991
Scale -
Job No. -
Sheet D-9 OF

Δ	11.25°	22.50°	30°	45°	67.50°	90°							
4.6, 8	1.0	0.5	2.0	1.0	2.5	1.3	3.6	1.8	4.6	2.3	5.0	2.5	4.6, 8
10.12	2.2	1.1	4.3	2.2	5.7	2.8	8.0	4.0	10.5	5.2	11.3	5.7	10.12
16.18	5.0	2.5	9.7	4.9	12.7	6.4	18.0	9.0	23.5	11.8	25.5	12.7	16.18
20	6.1	3.1	12.0	6.0	15.7	7.9	22.2	11.1	29.2	14.5	31.4	15.7	20
24	8.2	4.4	17.3	8.7	22.6	11.3	32.0	16.0	41.8	20.9	45.2	22.6	24
30	10.3	5.2	20.3	10.1	26.5	13.3	37.5	18.8	49.0	24.5	53.1	26.5	30
36	14.9	7.5	29.2	14.6	38.2	19.1	54.0	27.0	70.3	35.3	76.4	38.2	36
42	20.3	10.1	39.8	19.5	52.0	26.0	73.5	36.7	96.0	48.0	104.0	52.0	42
48	26.5	13.2	51.9	26.0	67.9	33.9	96.0	48.0	126.0	62.7	136.0	67.9	48
54	33.5	16.8	65.7	32.9	85.9	42.9	122.0	60.7	159.0	79.4	172.0	85.9	54
60	41.4	20.7	81.2	40.6	106.0	53.0	150.0	75.0	196.0	98.0	212.0	106.0	60
66	50.1	25.0	98.2	49.1	128.0	64.2	182.0	90.7	237.0	119.0	257.0	128.0	66
72	59.6	29.8	117.0	58.4	153.0	76.3	216.0	108.0	282.0	141.0	305.0	153.0	72
78	69.9	35.0	137.0	68.6	179.0	90.0	254.0	127.0	331.0	166.0	358.0	179.0	78
84	81.1	40.5	159.0	79.5	208.0	104.0	294.0	147.0	384.0	192.0	416.0	208.0	84
90	93.1	46.5	183.0	91.3	239.0	119.0	337.0	169.0	441.0	221.0	477.0	239.0	90
96	106.0	53.0	208.0	104.0	272.0	136.0	384.0	192.0	502.0	251.0	543.0	272.0	96

GENERAL NOTES - FOR ALL THRUST BLOCKS
1. All Calculations Are Based On Internal Pressure Of 200 P.S.I. For 24" I.D. Pipe And Smaller And 150 P.S.I. On 30" I.D. And Larger.
2. Values Of Vertical Bend Thrust Blocks Are Net Volumes Of Concrete To Be Furnished. The Corresponding Weight Of The Concrete (Class F) Is Equal To Or Greater Than The Vertical Component Of Thrust On The Vertical Bend.
3. Wall Thickness (T) Assumed Here For Estimating Purposes Only.
4. Concrete For Blocking Shall Be Class B Concrete.
5. Dimensions May Be Varied As Required By Field Conditions Where And As Directed By The Engineer. The Volume Of Concrete Blocking Shall Not Be Less Than Shown Here.

VERTICAL BEND THRUST BLOCK

PLUG & TEE THRUST BLOCK

