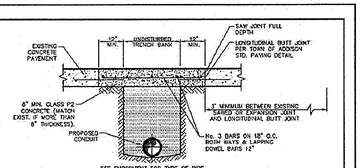
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

PLOTTED BY: MAURICIO, MARLA 9/27/2012 8:59 AM
DWG NAME: K:\FRI_CIVIL\033190\8-WORD\WORKPLAN-SETS\TYOA-DRNG-DETS.DWG [C-17 TOWN OF ADDISON STORM DRAINAGE DETAILS]
LAST SAVED: 9/27/2012 8:58 AM

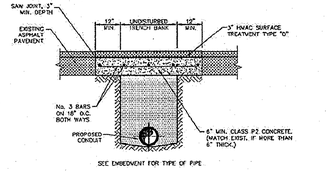
STORM SEWER – GENERAL NOTES:

1. ALL CONCRETE DRAINAGE STRUCTURES SHALL BE CLASS C CONCRETE MINIMUM.
2. ALL CRUSHED STONE SHALL BE 3/4", PASSING #4 SIEVE (GRADE 4).
3. ALL FIELD JOINTS WILL BE APPROVED BY THE TOWN ENGINEER IF NECESSARY. FIELD JOINTS SHALL BE WIPED ON THE INSIDE AND OUTSIDE TO PROVIDE FOR SMOOTH FLOW OF WATER.
4. RAMNECK COMPOUND OR APPROVED EQUAL SHALL BE USED FOR JOINT SEALS.
5. ALL STORM SEWER PIPE SHALL BE CAMERA INSPECTED AFTER THE INSTALLATION OF ALL PAVING AND UTILITIES AND PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

Addison PUBLIC WORKS DEPARTMENT | STORM SEWER GENERAL NOTES | STANDARD CONSTRUCTION DETAILS STORM DRAINAGE | DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-000



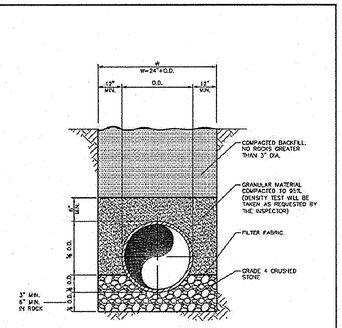
CONCRETE STREET OR DRIVE REPAIR
NTS



ASPHALT STREET OR DRIVE REPAIR
NTS

NOTES:
1. ALL JOINTS SHALL BE PARALLEL OR PERPENDICULAR TO THE DIRECTION OF TRAVEL.

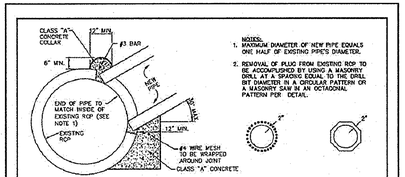
Addison PUBLIC WORKS DEPARTMENT | CONCRETE & ASPHALT STREET & DRIVE REPAIR | STANDARD CONSTRUCTION DETAILS STORM DRAINAGE | DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-002



RCP STORM SEWER PIPE BEDDING
NTS

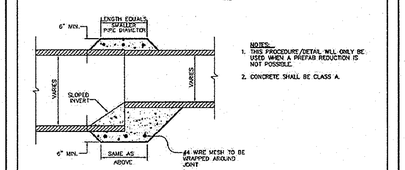
NOTE:
1. THE DEPTH OF TRENCH BELOW THE PROPOSED CONDUIT SHALL BE AS FOLLOWS:
   – 3" MIN. FOR 27" PIPE & SMALLER.
   – 4" MIN. FOR 30" TO 60" PIPE.
   – 6" MIN. FOR 66" PIPE OR LARGER.

Addison PUBLIC WORKS DEPARTMENT | RCP STORM SEWER PIPE BEDDING | STANDARD CONSTRUCTION DETAILS STORM DRAINAGE | DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-003



NOTES:
1. MAXIMUM DIAMETER OF NEW PIPE EQUALS ONE HALF OF EXISTING PIPE'S DIAMETER.
2. REMOVAL OF PLUG FROM EXISTING RCP TO BE ACCOMPLISHED BY USING A MASONRY DRILL AT A SPACING EQUAL TO THE DRILL BIT DIAMETER IN A CIRCULAR PATTERN OR A MASONRY SAW IN AN OCTAGONAL PATTERN PER DETAIL.

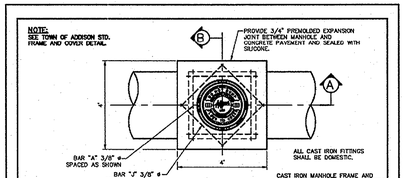
CONNECTION TO EXISTING RCP STORM DRAIN
NTS



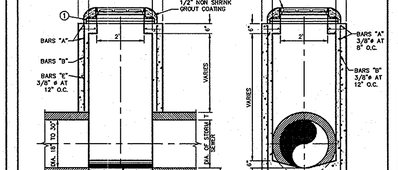
NOTES:
1. THIS PROCEDURE/DETAIL WILL ONLY BE USED WHEN A PREFAB REDUCTION IS NOT POSSIBLE.
2. CONCRETE SHALL BE CLASS A.

PIPE COLLAR
NTS

Addison PUBLIC WORKS DEPARTMENT | CONNECTION TO EXISTING RCP STORM DRAIN PIPE COLLAR | STANDARD CONSTRUCTION DETAILS STORM DRAINAGE | DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-004



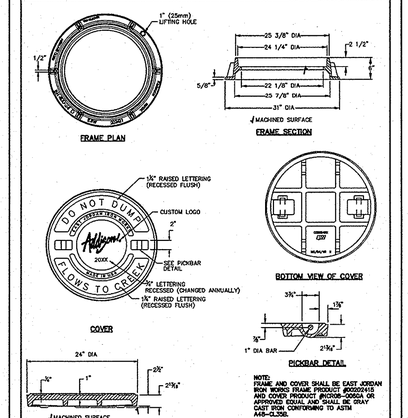
PLAN
NTS



SECTION A
NTS

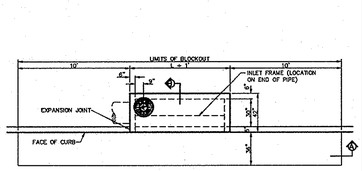
SECTION B
NTS

Addison PUBLIC WORKS DEPARTMENT | TYPE "A" STORM SEWER MANHOLE (FOR 18" TO 30" RCP) | STANDARD CONSTRUCTION DETAILS STORM DRAINAGE | DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-005

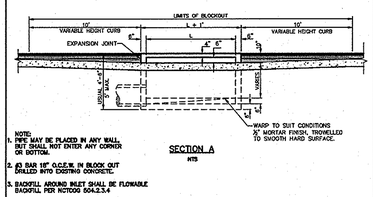


NOTE:
FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS FRAME PRODUCT #3000A15 AND COVER PRODUCT #1070R-3090A OR APPROVED EQUAL AND SHALL BE GRAY CAST IRON CONFORMING TO ASTM A48–CL30B.

Addison PUBLIC WORKS DEPARTMENT | STORM MANHOLE FRAME & COVER | STANDARD CONSTRUCTION DETAILS STORM DRAINAGE | DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-006



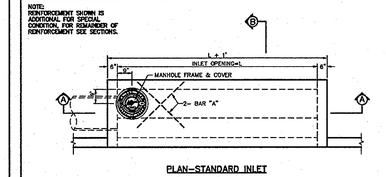
PLAN–STANDARD INLET
NTS



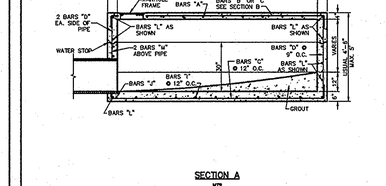
NOTE:
1. PIPE MAY BE PLACED IN ANY WALL, BUT SHALL NOT ENTER ANY CORNER OR BOTTOM.
2. #3 BAR 18" O.C.E.W. IN BLOCK OUT DRILLED INTO EXISTING CONCRETE.
3. BACKFILL AROUND INLET SHALL BE FLOWABLE BACKFILL PER NCTCOG 604.2.3.4

SECTION A
NTS

Addison PUBLIC WORKS DEPARTMENT | STANDARD CURB INLET | STANDARD CONSTRUCTION DETAILS STORM DRAINAGE | DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-007

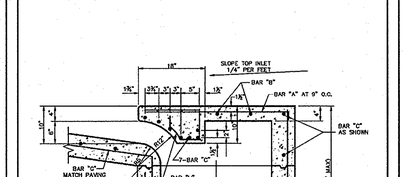


PLAN–STANDARD INLET
NTS



SECTION A
NTS

Addison PUBLIC WORKS DEPARTMENT | STANDARD CURB INLET 4, 6, 8 & 10 FOOT INLETS | STANDARD CONSTRUCTION DETAILS STORM DRAINAGE | DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-008



SECTION "B"
NTS

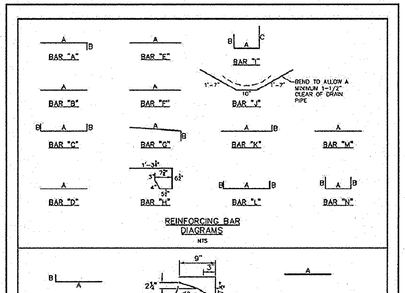
Addison PUBLIC WORKS DEPARTMENT | TYPICAL SECTION "B" STANDARD & RECESSED CURB INLETS (4, 6, 8 & 10 FOOT INLETS) | STANDARD CONSTRUCTION DETAILS STORM DRAINAGE | DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-009

REINFORCING STEEL SCHEDULE
DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLET

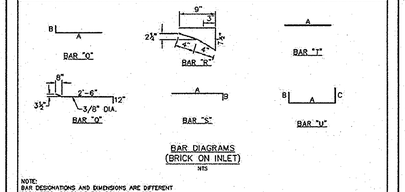
INLET LENGTH	BAR TYPE	BAR DIA. (1/8")	NO REQ'D	BAR DIMENSIONS A	B	C
4'	A	3	8	3'-2"	0'-4"	–
	B	3	2	3'-10"	0'-4"	–
	C	4	18	4'-0"	0'-4"	–
	D	4	9	4'-0"	–	–
	E	3	2	3'-10"	1'-0"	–
	H	3	7	3'-2"	–	–
	I	4	7	3'-2"	3'-2"	6'-4"
	J	5	1	3'-2"	–	*
	K	5	1	3'-2"	0'-4"	–
	L	4	11	3'-2"	0'-4"	–
	M	4	2	3'-10"	–	–
6'	A	3	9	3'-2"	0'-4"	–
	B	3	2	4'-10"	–	–
	C	4	18	6'-8"	0'-4"	–
	D	4	9	6'-0"	–	–
	E	3	2	4'-10"	1'-0"	–
	H	3	11	3'-2"	–	–
	I	4	9	3'-2"	3'-2"	6'-4"
	J	5	1	3'-2"	0'-4"	*
	K	5	1	3'-2"	0'-4"	–
	L	4	11	3'-2"	0'-4"	–
	M	4	2	4'-10"	–	–
8'	A	3	10	3'-2"	0'-4"	–
	B	3	2	6'-10"	–	–
	C	4	18	8'-8"	0'-4"	–
	D	4	9	8'-0"	–	–
	E	3	2	6'-10"	1'-0"	–
	H	3	15	3'-2"	–	–
	I	4	11	3'-2"	3'-2"	6'-4"
	J	5	1	3'-2"	0'-4"	*
	K	5	1	3'-2"	0'-4"	–
	L	4	11	3'-2"	0'-4"	–
	M	4	2	6'-10"	–	–
10'	A	3	12	3'-2"	0'-4"	–
	B	3	2	8'-10"	–	–
	C	4	18	10'-8"	0'-4"	–
	D	4	9	10'-0"	–	–
	E	3	2	8'-10"	1'-0"	–
	H	3	17	3'-2"	–	–
	I	4	9	3'-2"	3'-2"	6'-4"
	J	5	1	3'-2"	0'-4"	*
	K	5	1	3'-2"	0'-4"	–
	L	4	11	3'-2"	0'-4"	–
	M	4	2	8'-10"	–	–

* SEE DIAGRAM FOR DIMENSIONS
** FIELD CUT AS REQUIRED TO ACCOMMODATE DRAIN PIPE

Addison PUBLIC WORKS DEPARTMENT | REINFORCING STEEL SCHEDULE 4, 6, 8 & 10 FOOT INLETS | STANDARD CONSTRUCTION DETAILS STORM DRAINAGE | DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-010



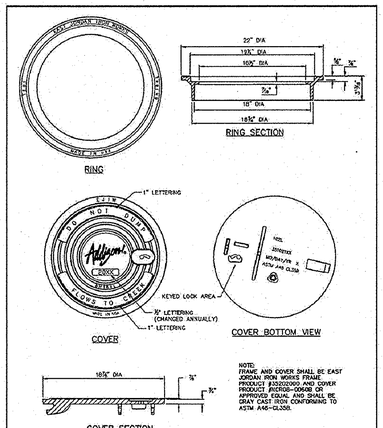
REINFORCING BAR DIAGRAMS
NTS



BAR DIAGRAMS (BRICK ON INLET)
NTS

NOTE:
BAR DESIGNATIONS AND DIMENSIONS ARE DIFFERENT FROM STEEL SCHEDULE FOR REGULAR INLETS.

Addison PUBLIC WORKS DEPARTMENT | REINFORCING BAR DIAGRAMS | STANDARD CONSTRUCTION DETAILS STORM DRAINAGE | DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-011



NOTE:
FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS FRAME PRODUCT #3000A15 AND COVER PRODUCT #1070R-3090A OR APPROVED EQUAL AND SHALL BE GRAY CAST IRON CONFORMING TO ASTM A48–CL30B.

Addison PUBLIC WORKS DEPARTMENT | INLET FRAME & COVER | STANDARD CONSTRUCTION DETAILS STORM DRAINAGE | DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-501

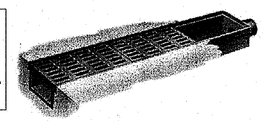
■ Note: The sequence of landing procedures shown in this drawing are general suggestions to qualified participants, and may not be appropriate for every installation.

R-4995 – R-4996
Type M Trench Frame with Solid or Grated Cover

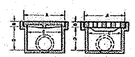
Heavy Duty

Cast Iron Trench Assemblies—Light or Heavy Duty—For Use in Sidewalk, Driveways, Garages, Loading Docks, etc.

Read Carefully Before Ordering.
Specify:
1. Complete catalog number.
2. Light or heavy duty.
3. Overall length of cover required.
4. Lid solid, flat grated, or diagonally barred convex grate.
5. Location of outlet, slots, bottom or end holes dimensional location and pipe size).
6. Whether one end or both ends



Illustrating Type M frame with grated cover. Standard with 4-inch outside outlet. Can be equipped for inside outlet if specified.



SOLID GRATES

Trench covers are used over areas requiring long drainage inventories. Can be supplied in a variety of sizes and lengths to meet special needs. For trenches of irregular pattern, arrangements can be made to furnish cover to fit.

SECTIONS THRU DRAINS

Standard 4-inch outlet at end of drain. Special size outlets are available on special order. Side and bottom outlets optional and furnished only when specified.

Sections Thru Drains, Type M

Dimensions in Inches

Catalog No.	Description	A	B	C	D	Length
Standard Sizes—Light Duty						
R-4995-A1**	With grated cover	11¾	8¼	10	4¼	As ordered
R-4995-A2*	With grated cover	11¾	8¼	5	4¼	As ordered
R-4995-S1	With solid cover	11¾	8¼	10	4¼	As ordered
R-4995-S2	With solid cover	11¾	8¼	5	4¼	As ordered
Standard Sizes—Heavy Duty						
R-4996-A1**	With grated cover	11¾	9¾	15	6	As ordered
R-4996-A2*	With grated cover	11¾	9¾	5	6	As ordered
R-4996-S1	With solid cover	11¾	9¾	15	6	As ordered
R-4996-S2	With solid cover	11¾	9¾	5	6	As ordered

Above Standard Frames made in 4 ft. sections, covers in 2 ft. lengths.
*Available with Type B grate only.
**Also available with Type P grate.

ADDED 2/2012

RECORD DRAWINGS (October 2013)
Information Provided By:
BOB MOORE CONSTRUCTION

No.	REVISIONS	DATE	BY

Kimley-Horn and Associates, Inc.
State of Texas Registration No. F-928
5750 GENESIS COURT, SUITE 200, FRISCO, TX 75034
PHONE: 972-335-3580 FAX: 972-335-3779
WWW.KIMLEY-HORN.COM

STATE OF TEXAS
ROY BRASWELL
104908
LICENSED PROFESSIONAL ENGINEER
9/27/12

KHA PROJECT 063319038
DATE 9/27/2012
SCALE AS SHOWN
DESIGNED BY TBB
DRAWN BY AAE
CHECKED BY TBB

VILLAGE ON THE PARKWAY
ADDISON, TEXAS

TOWN OF ADDISON STORM DRAINAGE DETAILS

SHEET NUMBER
C-17