STANDARD CONSTRUCTION DETAILS

STORM DRAINAGE

AUGUST 2010

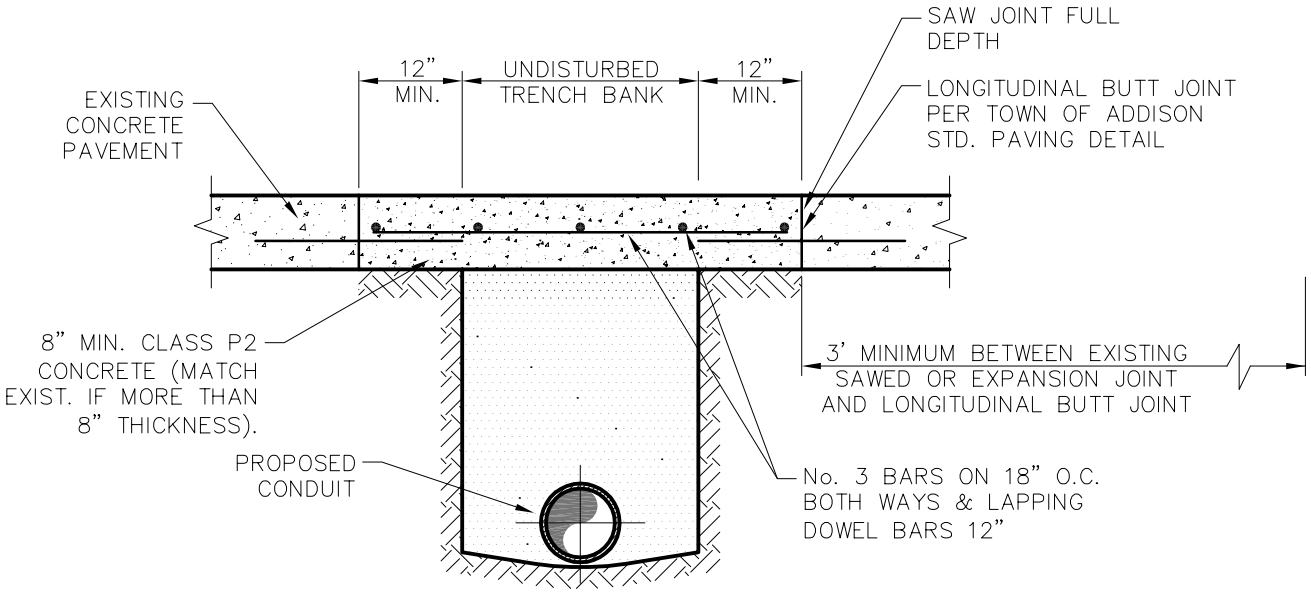
PUBLIC WORKS DEPARTMENT

TABLE OF CONTENTS

STORM DRAINAGE

STORM SEWER – GENERAL NOTES:

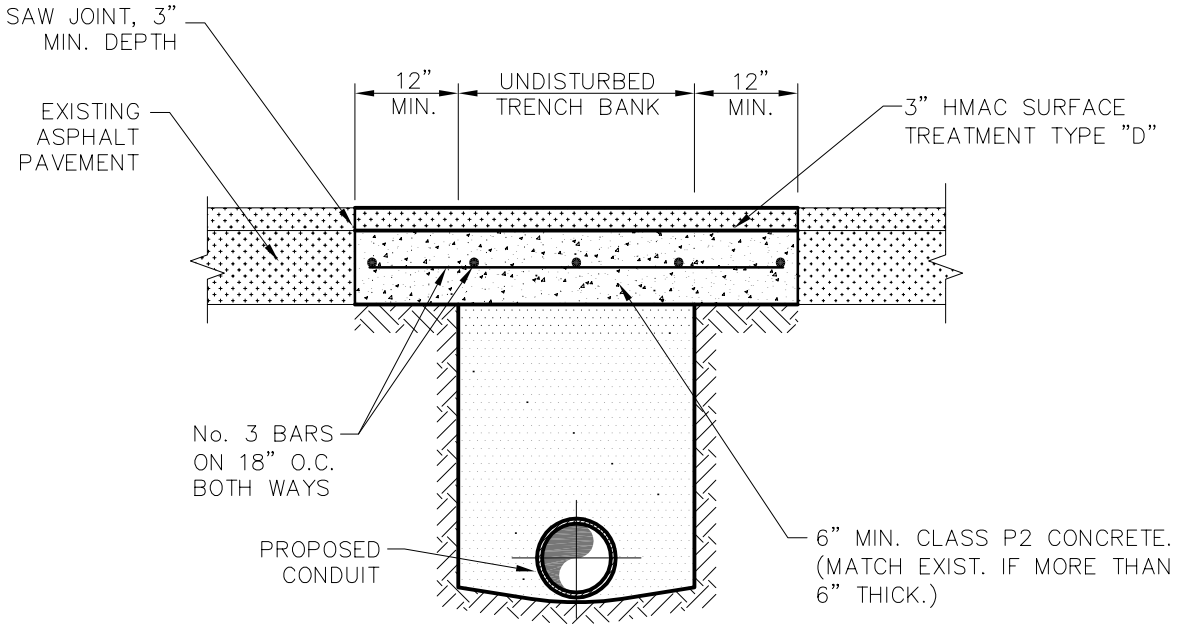
1. ALL CONCRETE DRAINAGE STRUCTURES SHALL BE CLASS C CONCRETE MINIMUM.
2. ALL CRUSHED STONE SHALL BE 3/4", PASSING #4 SIEVE (GRADE 4).
3. ALL FIELD JOINTS WILL BE APPROVED BY THE TOWN ENGINEER IF NECESSARY. FIELD JOINTS SHALL BE WIPED ON THE INSIDE AND OUTSIDE TO PROVIDE FOR SMOOTH FLOW OF WATER.
4. 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.



SEE EMBEDMENT FOR TYPE OF PIPE

CONCRETE STREET OR DRIVE REPAIR

NTS



SEE EMBEDMENT FOR TYPE OF PIPE

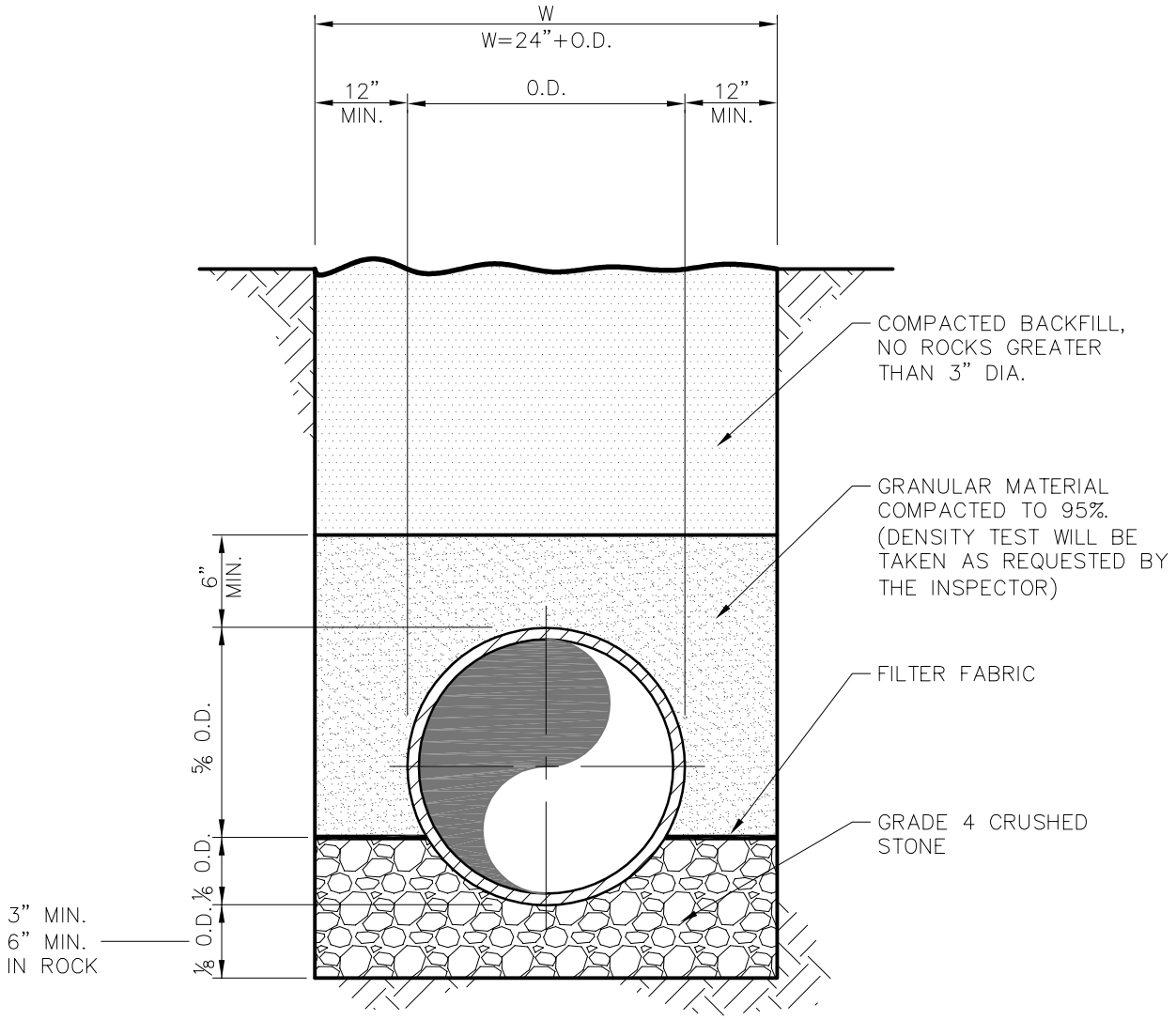
ASPHALT STREET OR DRIVE REPAIR

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–D02

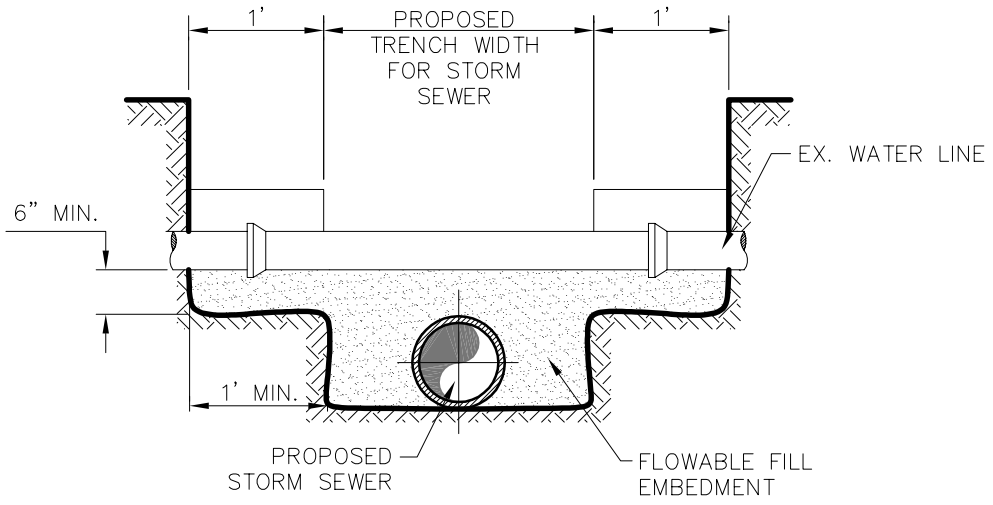


RCP STORM SEWER PIPE BEDDING

NTS

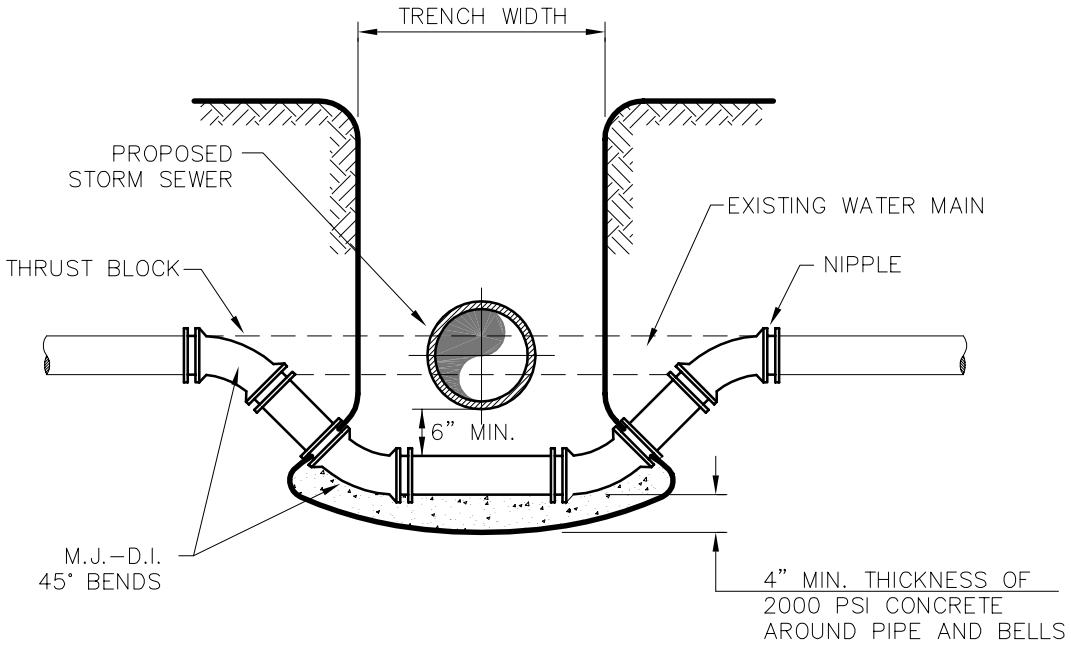
NOTE:
1. THE DEPTH OF TRENCH BELOW THE PROPOSED CONDUIT SHALL BE AS FOLLOWS:
   - 3" MIN. FOR 27" PIPE & SMALLER.
   - 4" MIN. FOR 30" TO 60" PIPE.
   - 6" MIN. FOR 66" PIPE OR LARGER.

Addison! PUBLIC WORKS DEPARTMENT	RCP STORM SEWER PIPE BEDDING	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD-D03



UTILITY SUPPORT DETAIL

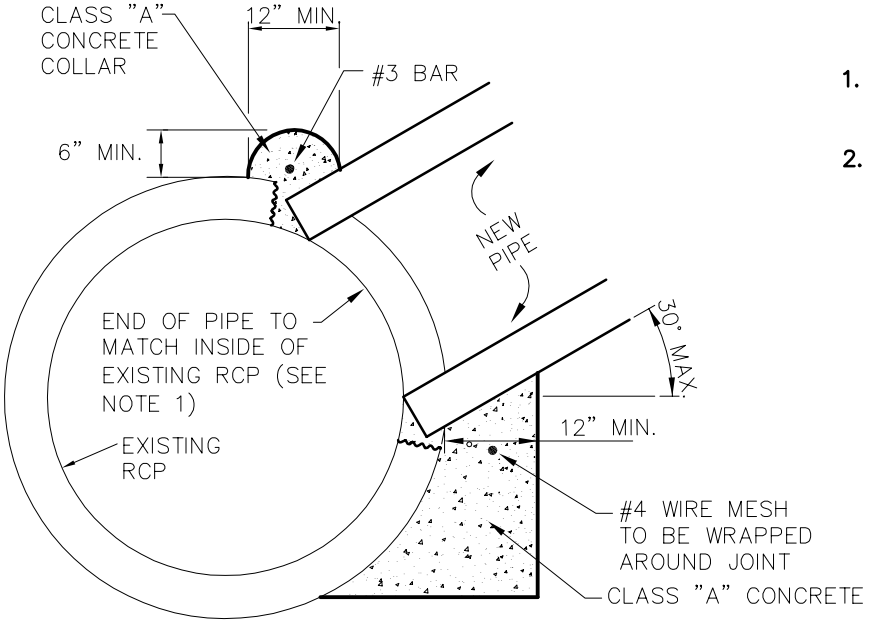
NTS



WATER MAIN LOWERING DETAIL

NTS

Addison! PUBLIC WORKS DEPARTMENT	WATER MAIN LOWERING & UTILITY SUPPORT DETAILS	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–D04

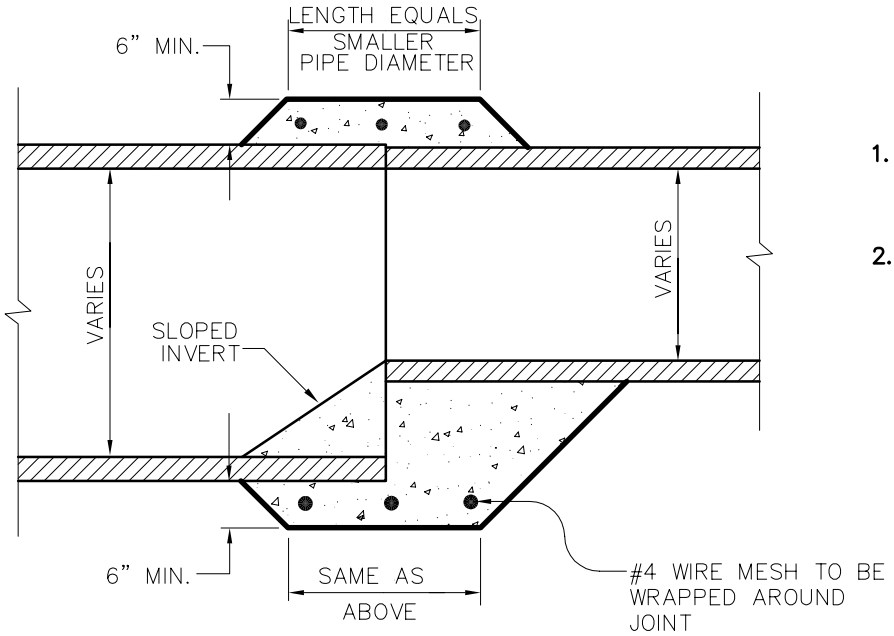


NOTES:

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:

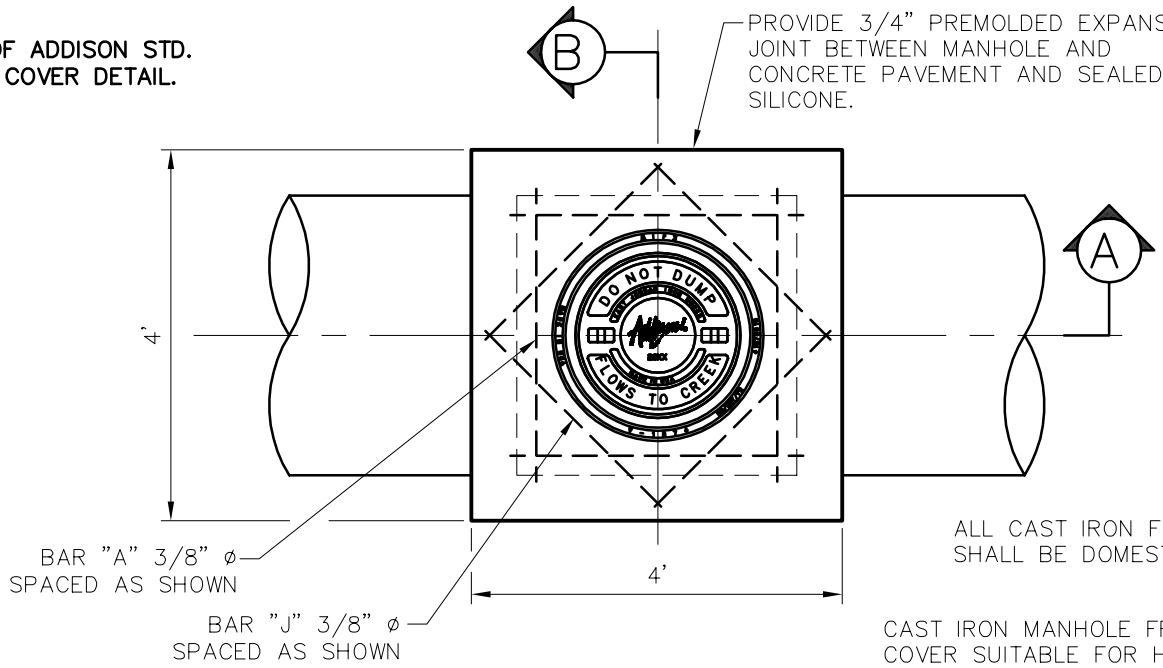
1. THIS PROCEDURE/DETAIL WILL ONLY BE USED WHEN A PREFAB REDUCTION IS NOT POSSIBLE.
2. CONCRETE SHALL BE CLASS A.

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-D05

NOTE:
SEE TOWN OF ADDISON STD. FRAME AND COVER DETAIL.



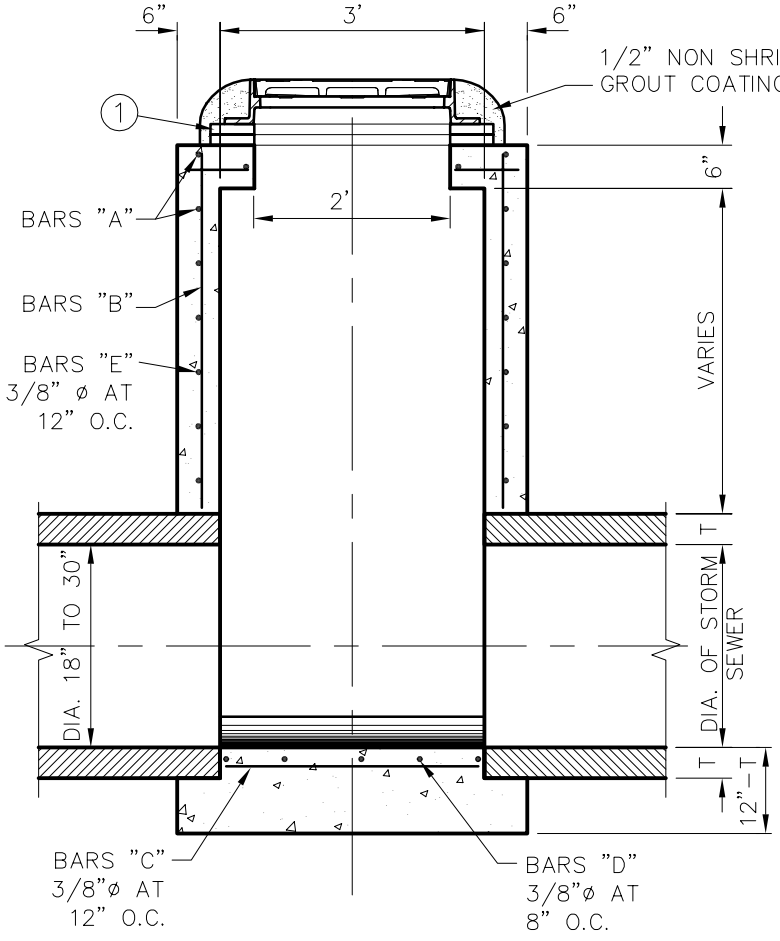
ALL CAST IRON FITTINGS SHALL BE DOMESTIC.

PLAN

NTS

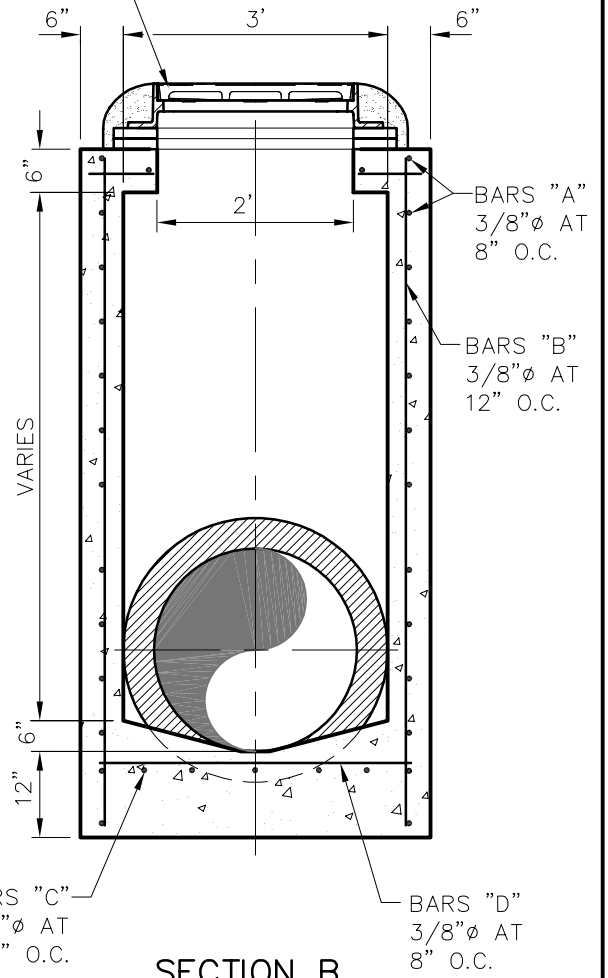
(1) USE PRECAST CONCRETE GRADE RINGS SET IN MORTAR TO RAISE TO GRADE 2" MIN. 18" MAX.

CAST IRON MANHOLE FRAME AND COVER SUITABLE FOR HEAVY TRAFFIC. MANHOLE RIM TO BE SET FLUSH WITH PAVEMENT OR 1" TO 4" ABOVE GRADE IN NON-PAVED AREAS



SECTION A

NTS



SECTION B

NTS

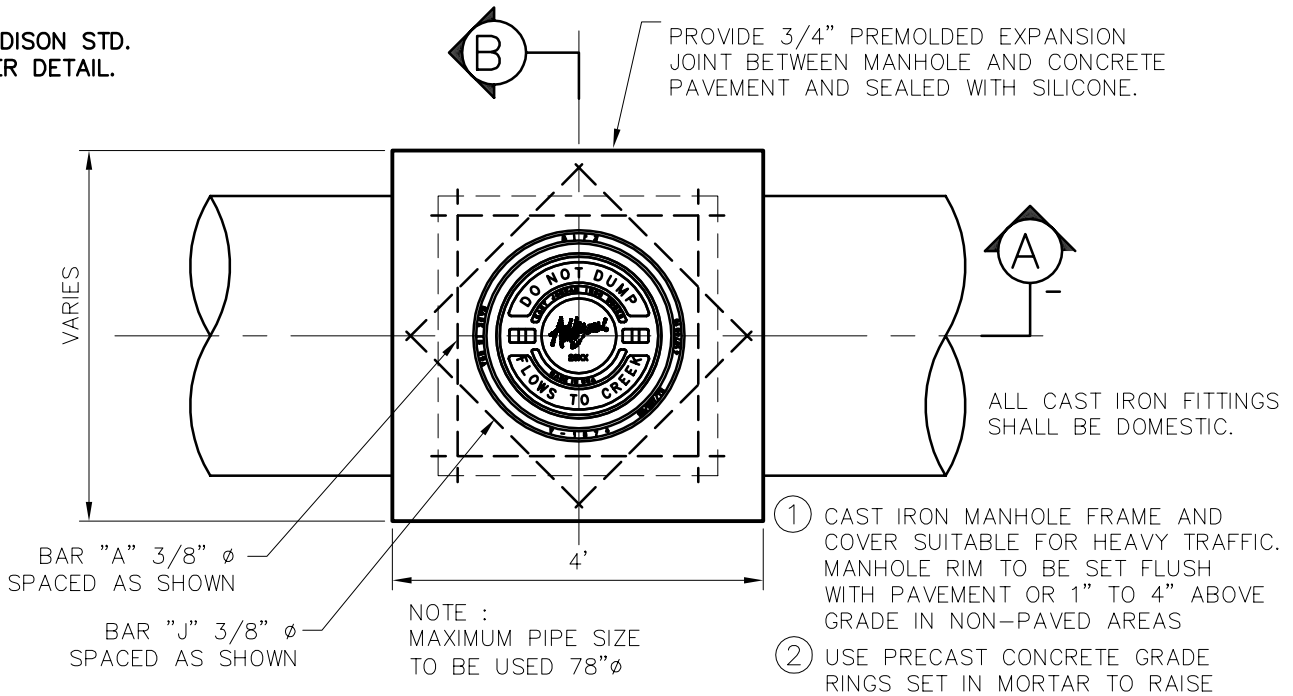
Addison!
PUBLIC WORKS DEPARTMENT

TYPE "A" STORM SEWER MANHOLE (FOR 18" TO 30" RCP)

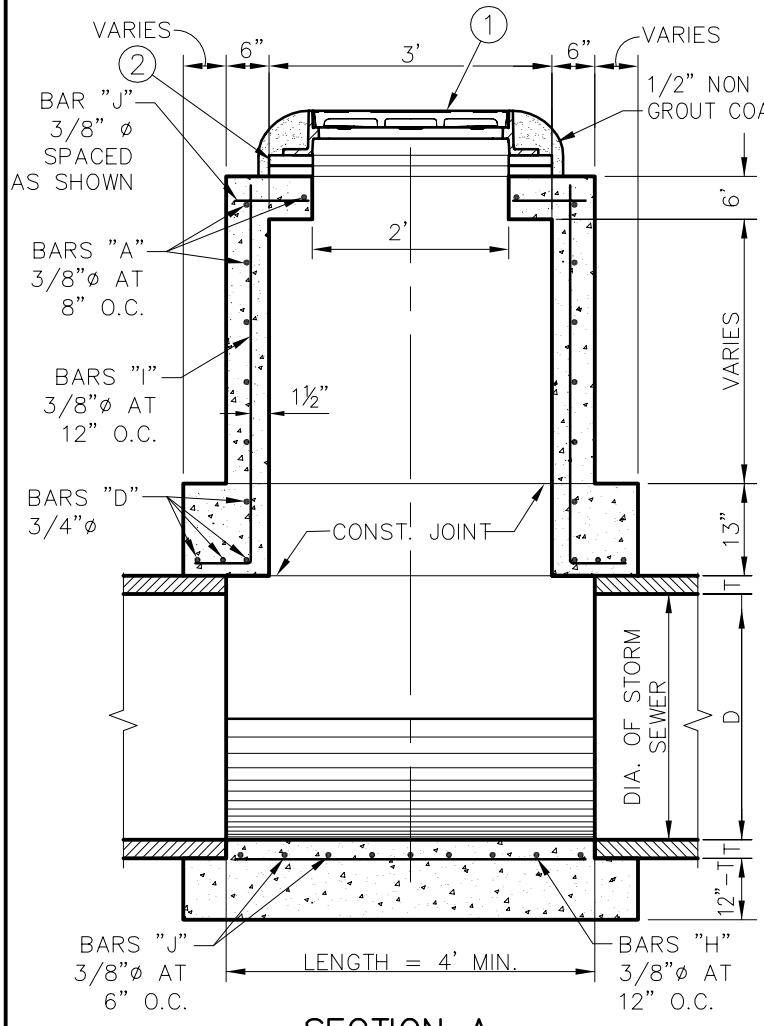
STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

DATE:	REV DATE:	SHEET :
AUGUST, 2010	–	SD-D06

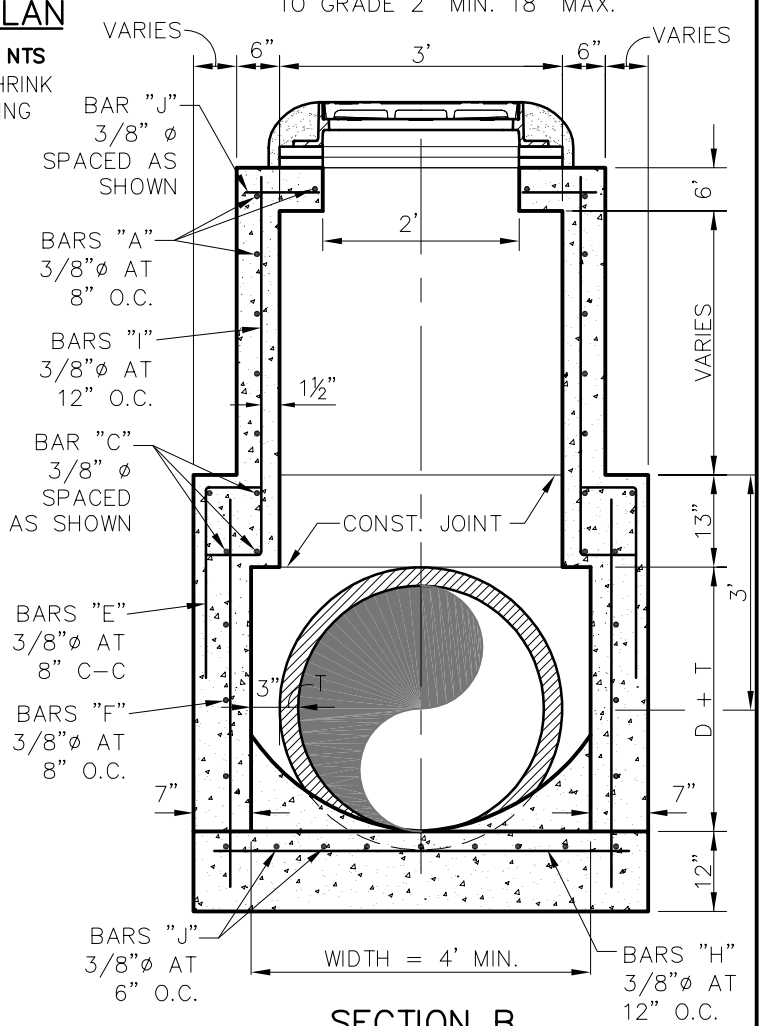
NOTE:
SEE TOWN OF ADDISON STD. FRAME AND COVER DETAIL.



PLAN
NTS



SECTION A
NTS



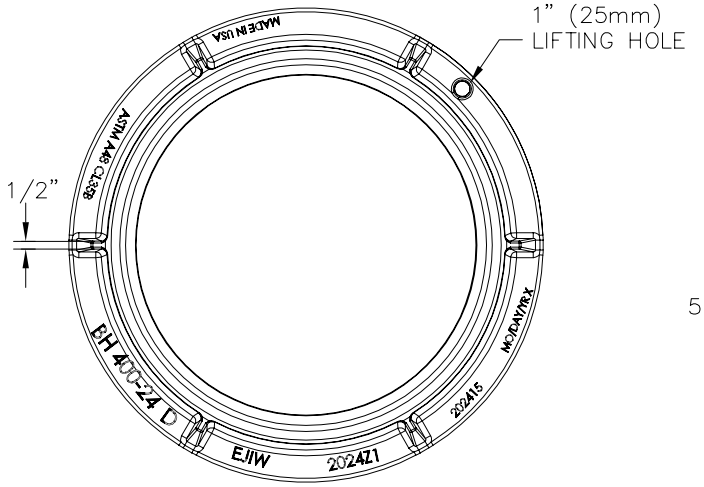
SECTION B
NTS

PUBLIC WORKS DEPARTMENT

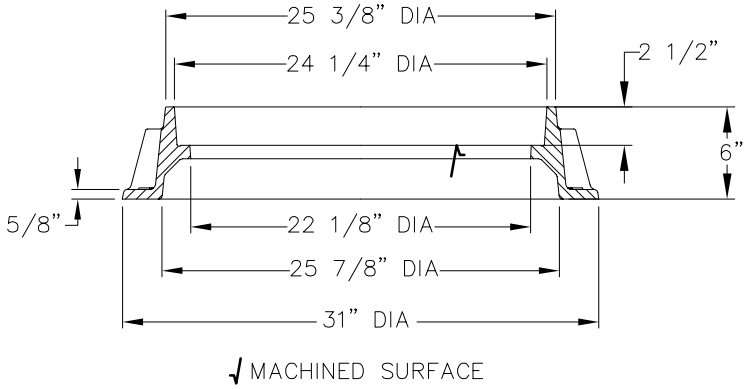
TYPE "B" STORM SEWER MANHOLE (FOR 33" TO 78" RCP)

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

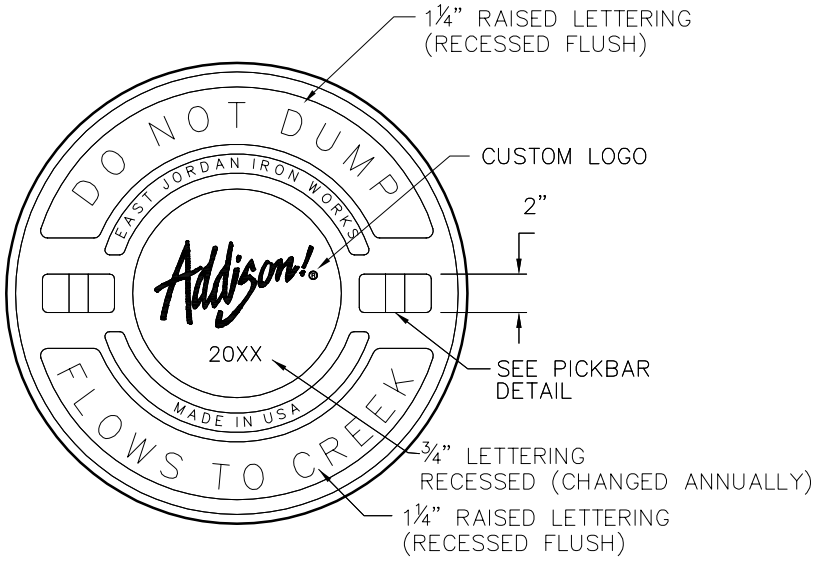
DATE:	REV DATE:	SHEET :
AUGUST, 2010	–	SD-D07



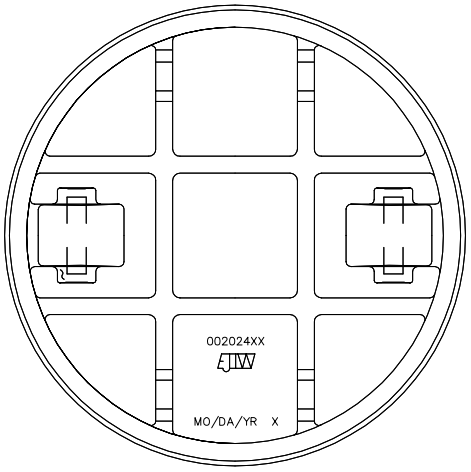
FRAME PLAN



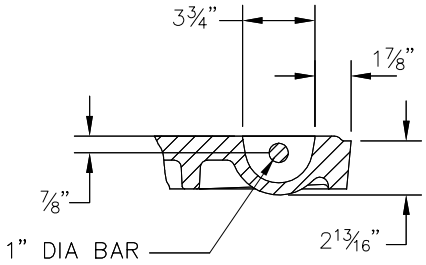
FRAME SECTION



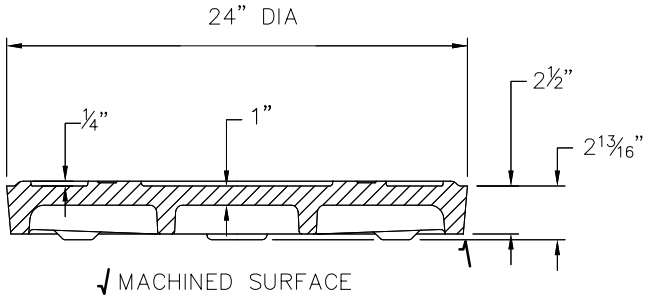
COVER



BOTTOM VIEW OF COVER



PICKBAR DETAIL



COVER SECTION

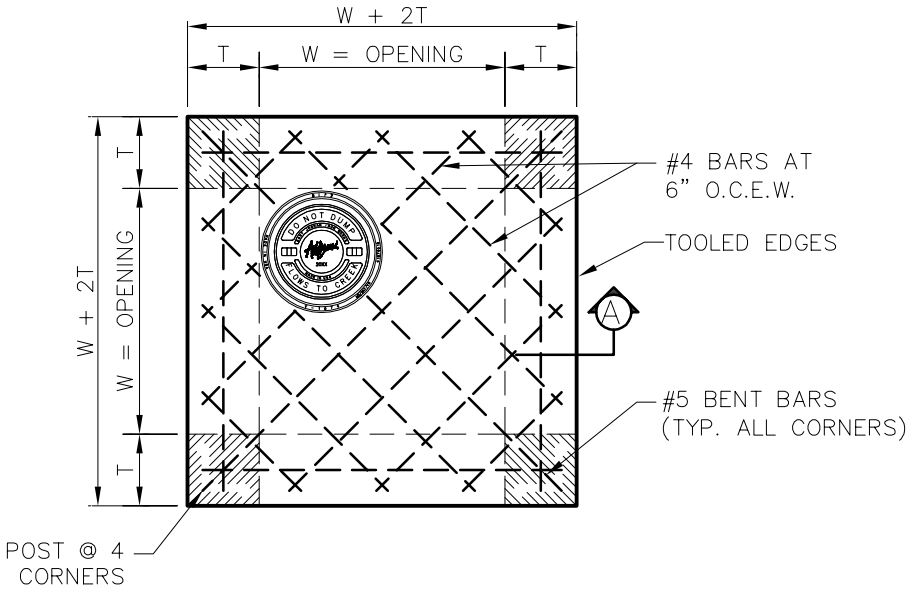
NOTE:
FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS FRAME PRODUCT #00202415 AND COVER PRODUCT #NCR08-0060A OR APPROVED EQUAL AND SHALL BE GRAY CAST IRON CONFORMING TO ASTM A48-CL35B.

Addison!
PUBLIC WORKS DEPARTMENT

STORM MANHOLE
FRAME & COVER

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

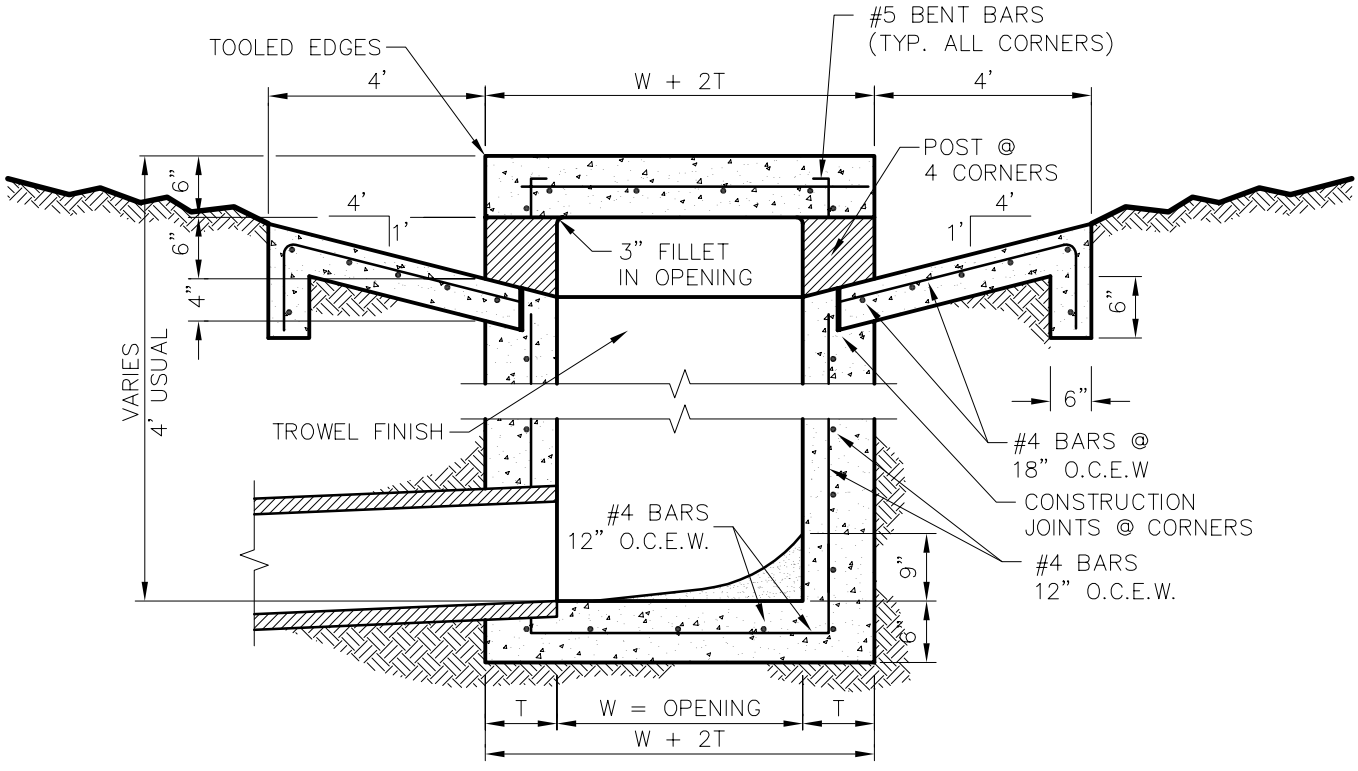
DATE:	REV DATE:	SHEET :
AUGUST, 2010	–	SD-D08



INLET SIZE	T	W
2' SQUARE	7"	2'-0"
3' SQUARE	7"	3'-0"
4' SQUARE	7"	4'-0"
5' SQUARE	8"	5'-0"
6' SQUARE	9"	6'-0"

PLAN OF TOP SLAB

NTS



SECTION A

NTS

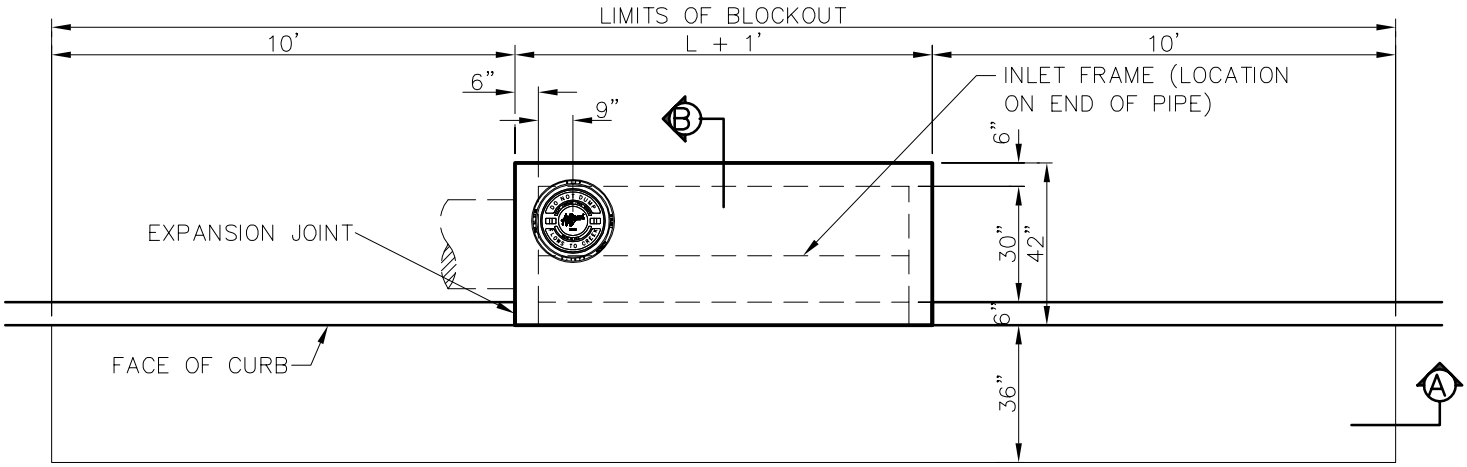
Addison!

PUBLIC WORKS DEPARTMENT

WYE INLET DETAIL

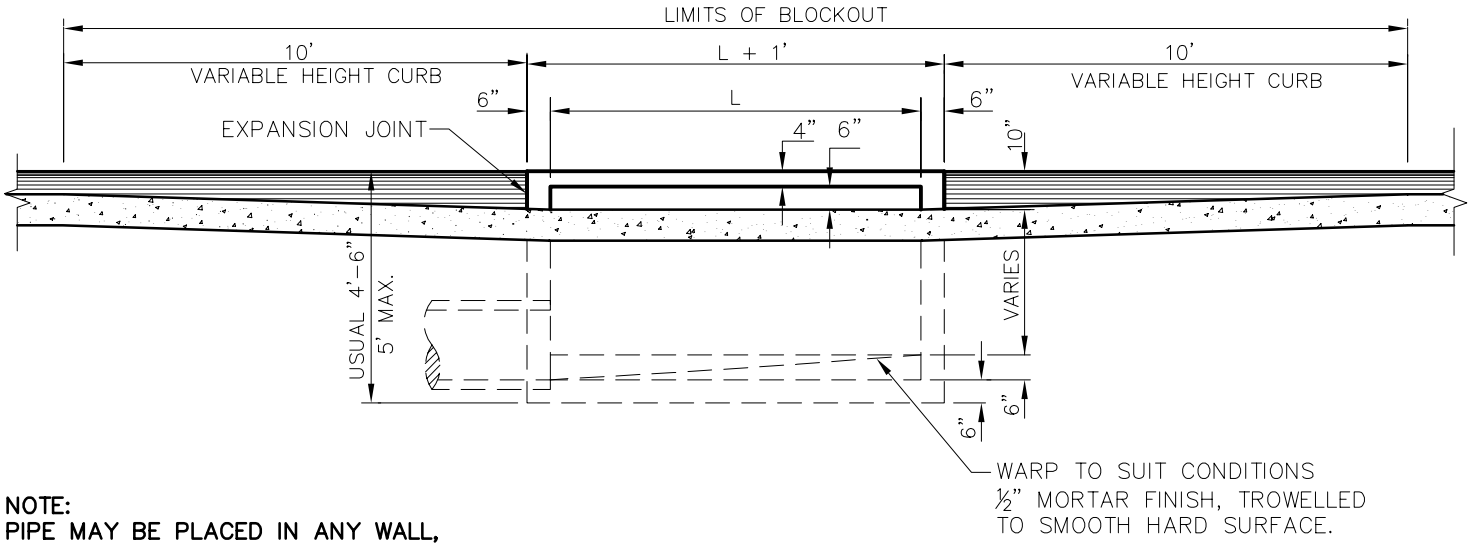
STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

DATE:	REV DATE:	SHEET :
AUGUST, 2010	–	SD-D09



PLAN–STANDARD INLET

NTS



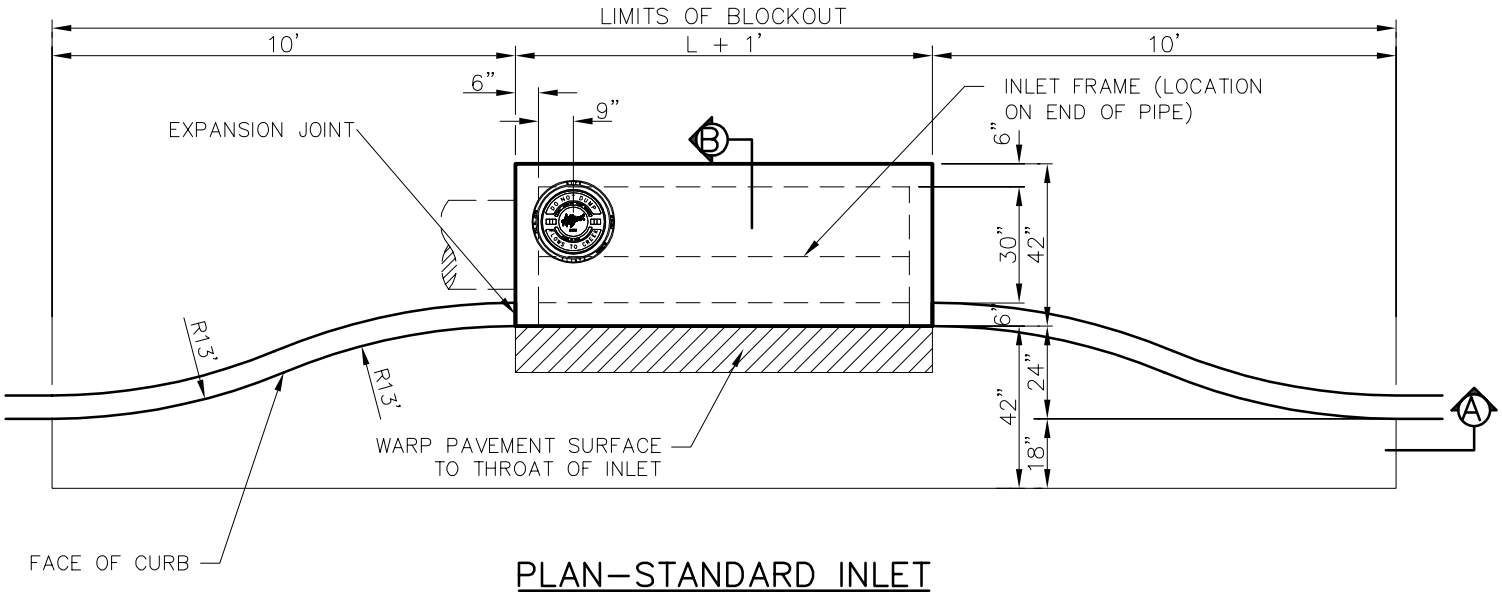
SECTION A

NTS

NOTE:

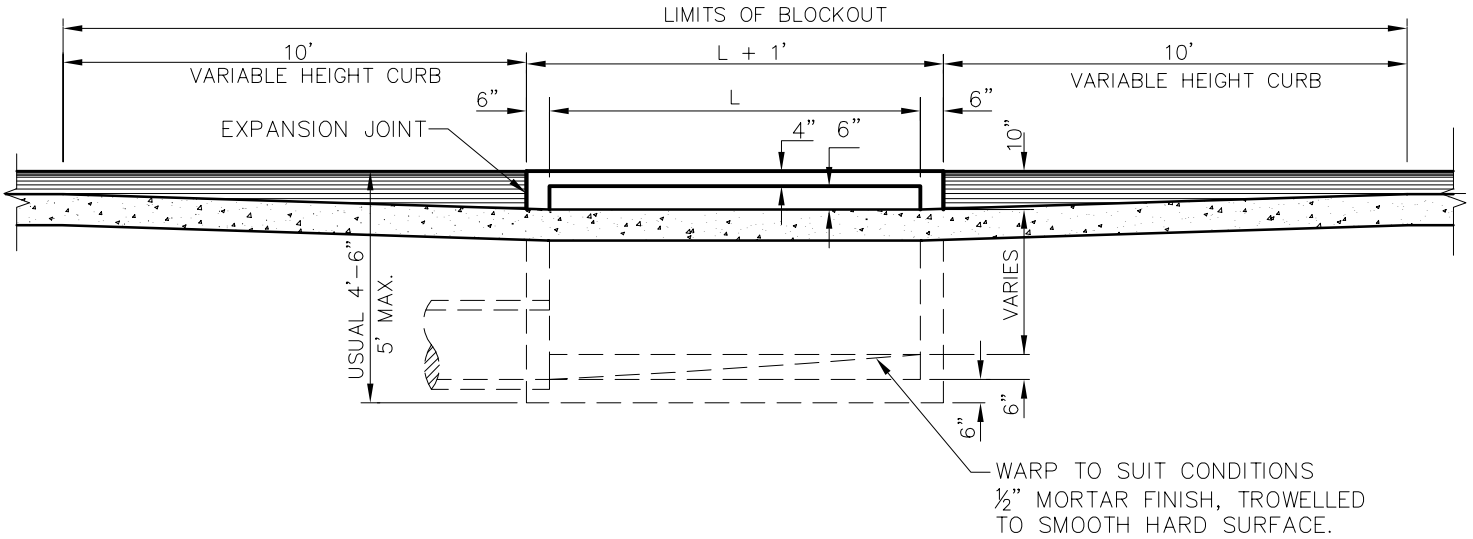
1. PIPE MAY BE PLACED IN ANY WALL, BUT SHALL NOT ENTER ANY CORNER OR BOTTOM.
2. #3 BAR 18" O.C.E.W. IN BLOCK OUT DRILLED INTO EXISTING CONCRETE.
3. BACKFILL AROUND INLET SHALL BE FLOWABLE BACKFILL PER NCTCOG 504.2.3.4

Addison! PUBLIC WORKS DEPARTMENT	STANDARD CURB INLET	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE
		DATE: AUGUST, 2010 / REV DATE: – / SHEET : SD–D10



PLAN–STANDARD INLET

NTS



SECTION A

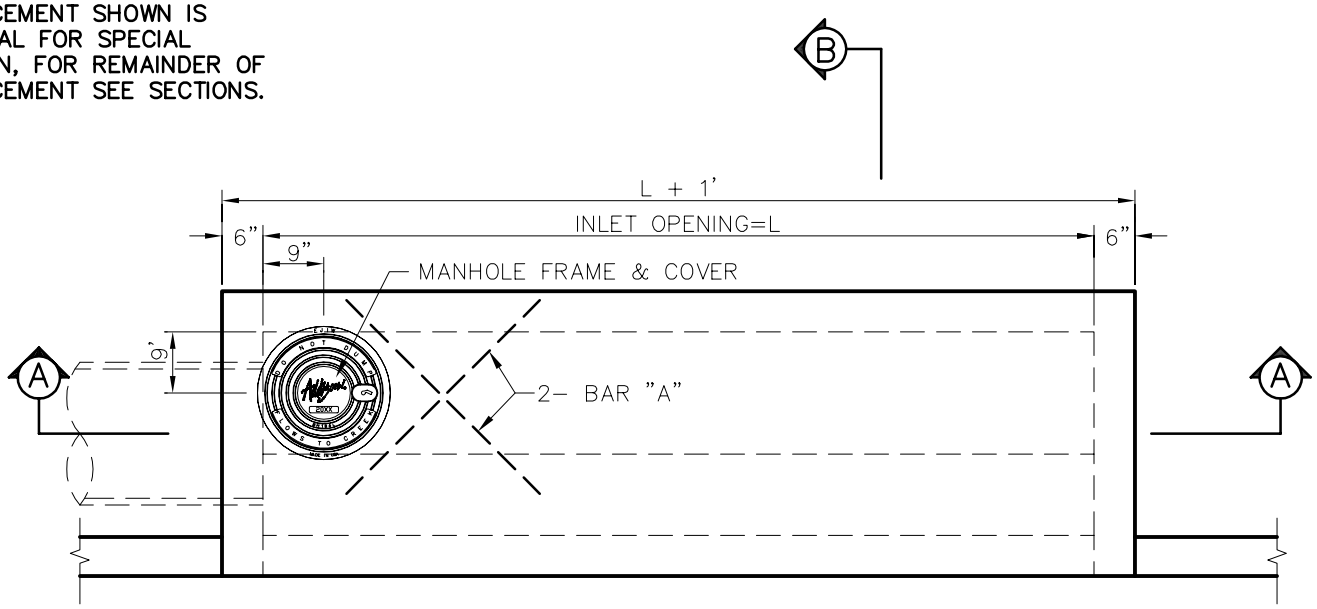
NTS

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 504.2.3.4.

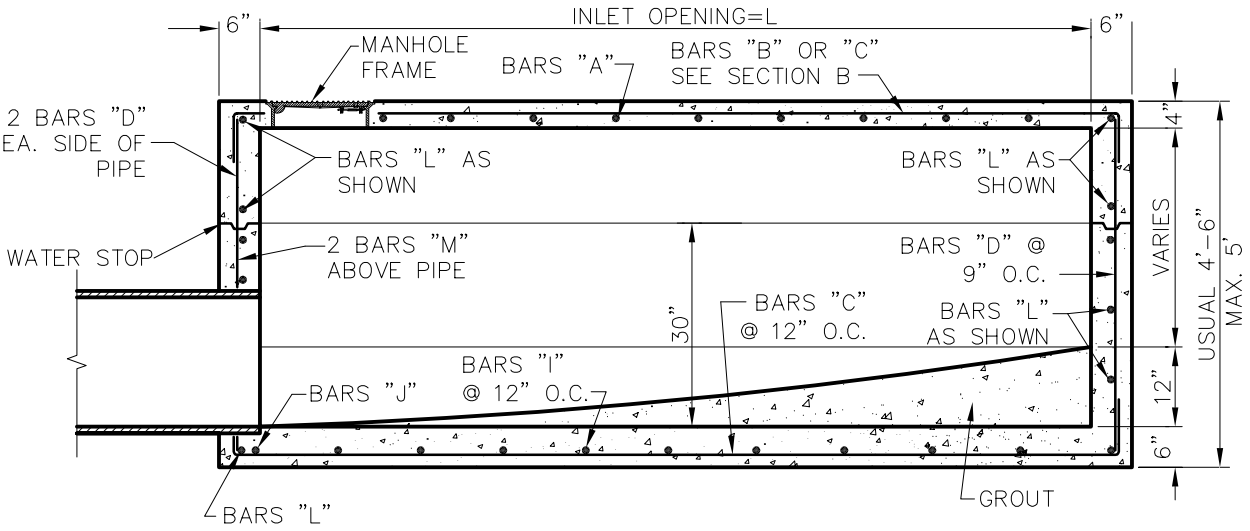
Addison! PUBLIC WORKS DEPARTMENT	RECESSED CURB INLET	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–D11

NOTE:
REINFORCEMENT SHOWN IS ADDITIONAL FOR SPECIAL CONDITION, FOR REMAINDER OF REINFORCEMENT SEE SECTIONS.



PLAN–STANDARD INLET

NTS



SECTION A

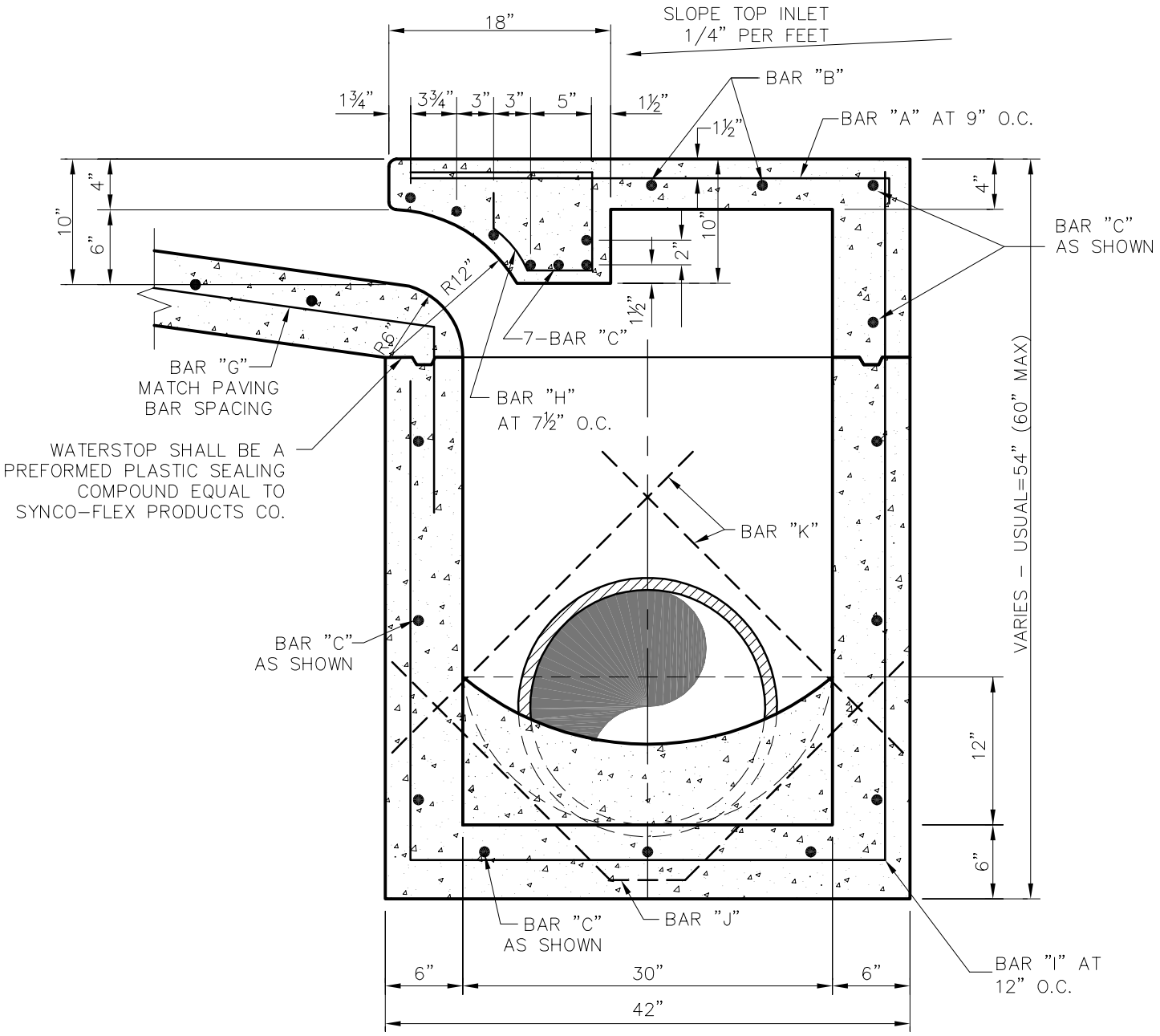
NTS

PUBLIC WORKS DEPARTMENT

STANDARD CURB INLET 4, 6, 8 & 10 FOOT INLETS

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

DATE:	REV DATE:	SHEET :
AUGUST, 2010	–	SD–D12



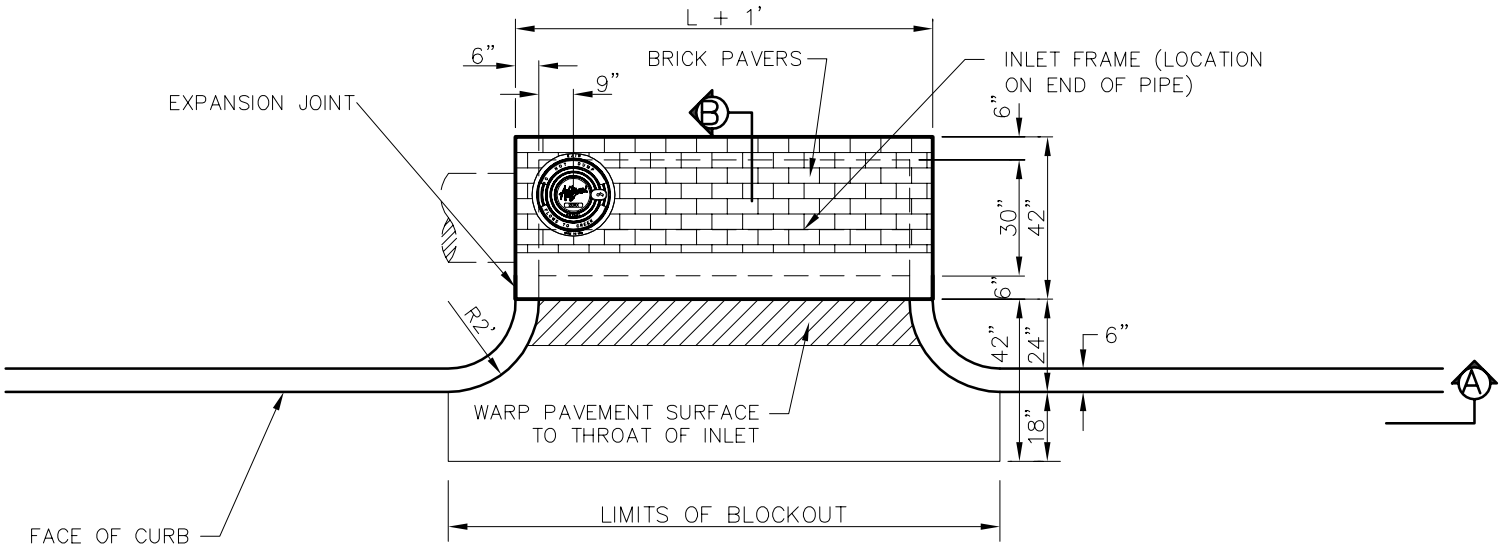
SECTION "B"

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–D13

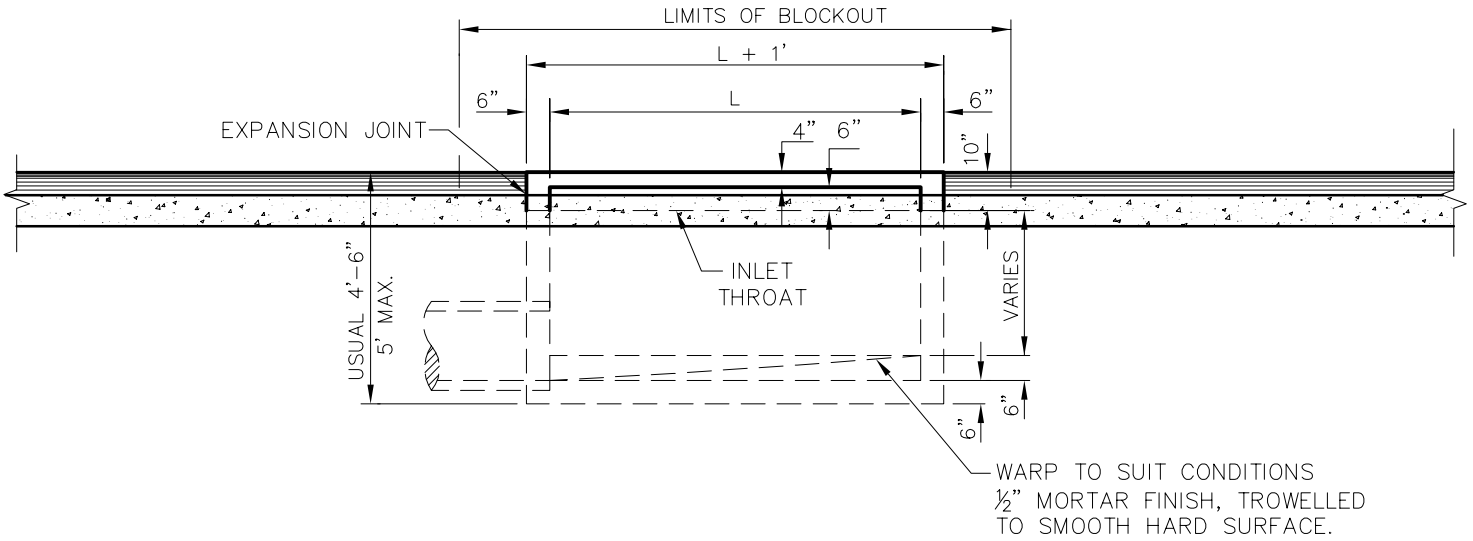
REINFORCING STEEL SCHEDULE DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLET						
INLET LENGTH	BAR TYPE	BAR DIA. (1/8")	NO REQ'D	BAR DIMENSIONS		
				A	B	C
4'	A	3	6	3'–2"	0'–3"	–
	B	3	2	2'–10"	–	–
	C	4	18	4'–8"	0'–6"	–
	D	4	9	4'–8"	–	–
	G	3	4	2'–0"	1'–3"	–
	H	3	7	*	*	*
	I	4	3	3'–2"	3'–2"	4'–8"
	J	5	1	*	*	*
	K	5	2	3'–2"	0'–6"	–
	L	4	11	3'–2"	0'–6"	–
	M	4	2	3'–0"**	–	–
6'	A	3	9	3'–2"	0'–3"	–
	B	3	2	4'–10"	–	–
	C	4	18	6'–8"	0'–6"	–
	D	4	9	4'–8"	–	–
	G	3	6	2'–0"	1'–3"	–
	H	3	11	*	*	*
	I	4	5	3'–2"	3'–2"	4'–8"
	J	5	1	*	*	*
	K	5	2	3'–2"	0'–6"	–
	L	4	11	3'–2"	0'–6"	–
	M	4	2	3'–0"**	–	–
8'	A	3	12	3'–2"	0'–3"	–
	B	3	2	6'–10"	–	–
	C	4	18	8'–8"	0'–6"	–
	D	4	9	4'–8"	–	–
	G	3	7	2'–0"	1'–3"	–
	H	3	14	*	*	*
	I	4	7	3'–2"	3'–2"	4'–8"
	J	5	1	*	*	*
	K	5	2	3'–2"	0'–6"	–
	L	4	11	3'–2"	0'–6"	–
	M	4	2	3'–0"**	–	–
10'	A	3	15	3'–2"	0'–3"	–
	B	3	2	8'–10"	–	–
	C	4	18	10'–8"	0'–6"	–
	D	4	9	4'–8"	–	–
	G	3	9	2'–0"	1'–3"	–
	H	3	17	*	*	*
	I	4	9	3'–2"	3'–2"	4'–8"
	J	5	1	*	*	*
	K	5	2	3'–2"	0'–6"	–
	L	4	11	3'–2"	0'–6"	–
	M	4	2	3'–0"**	–	–

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



PLAN–BRICK TOP INLET

NTS



SECTION A

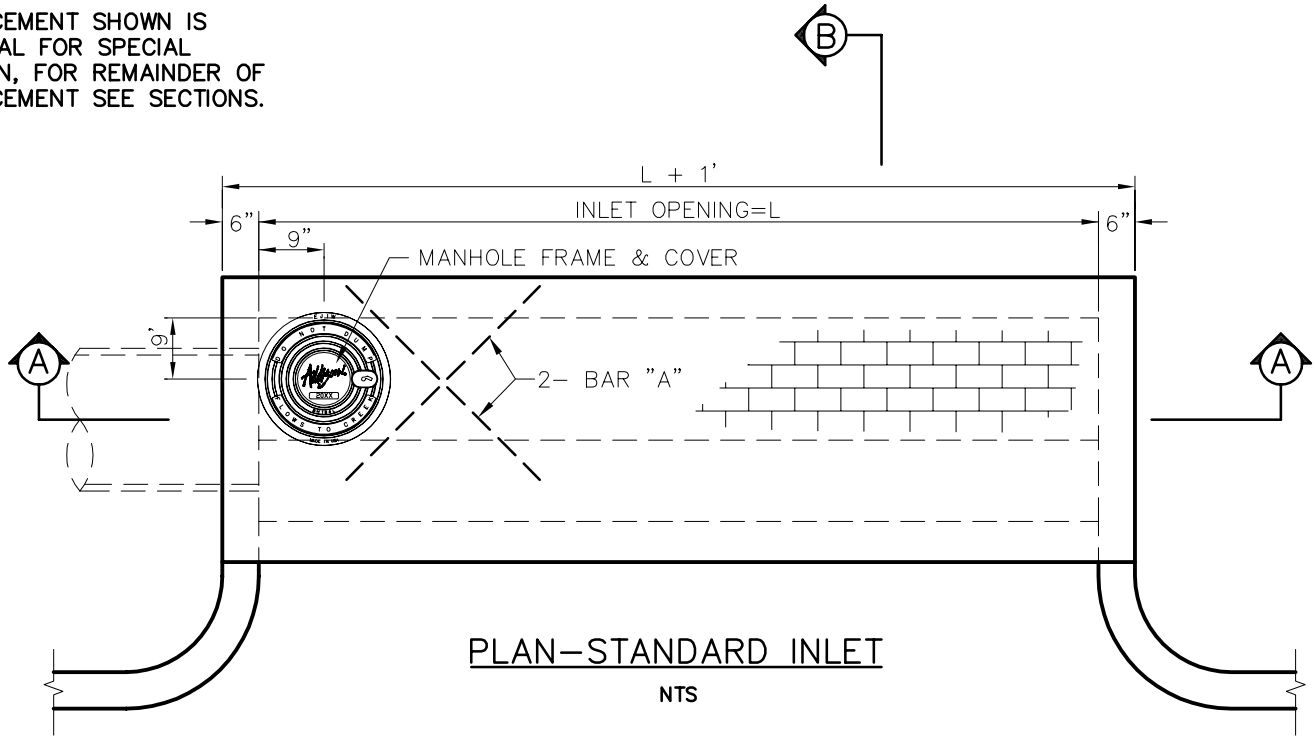
NTS

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 504.2.3.4.

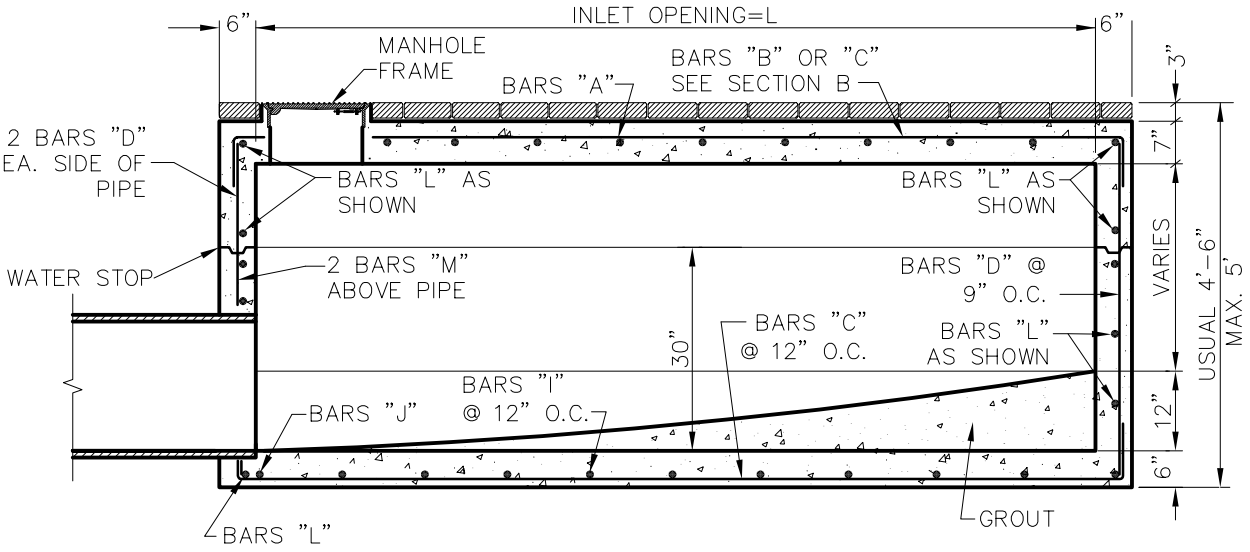
Addison! PUBLIC WORKS DEPARTMENT	RECESSED BRICK TOP CURB INLET 4, 6, 8 & 10 FOOT INLETS	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–D15

NOTE:
REINFORCEMENT SHOWN IS ADDITIONAL FOR SPECIAL CONDITION, FOR REMAINDER OF REINFORCEMENT SEE SECTIONS.



PLAN–STANDARD INLET

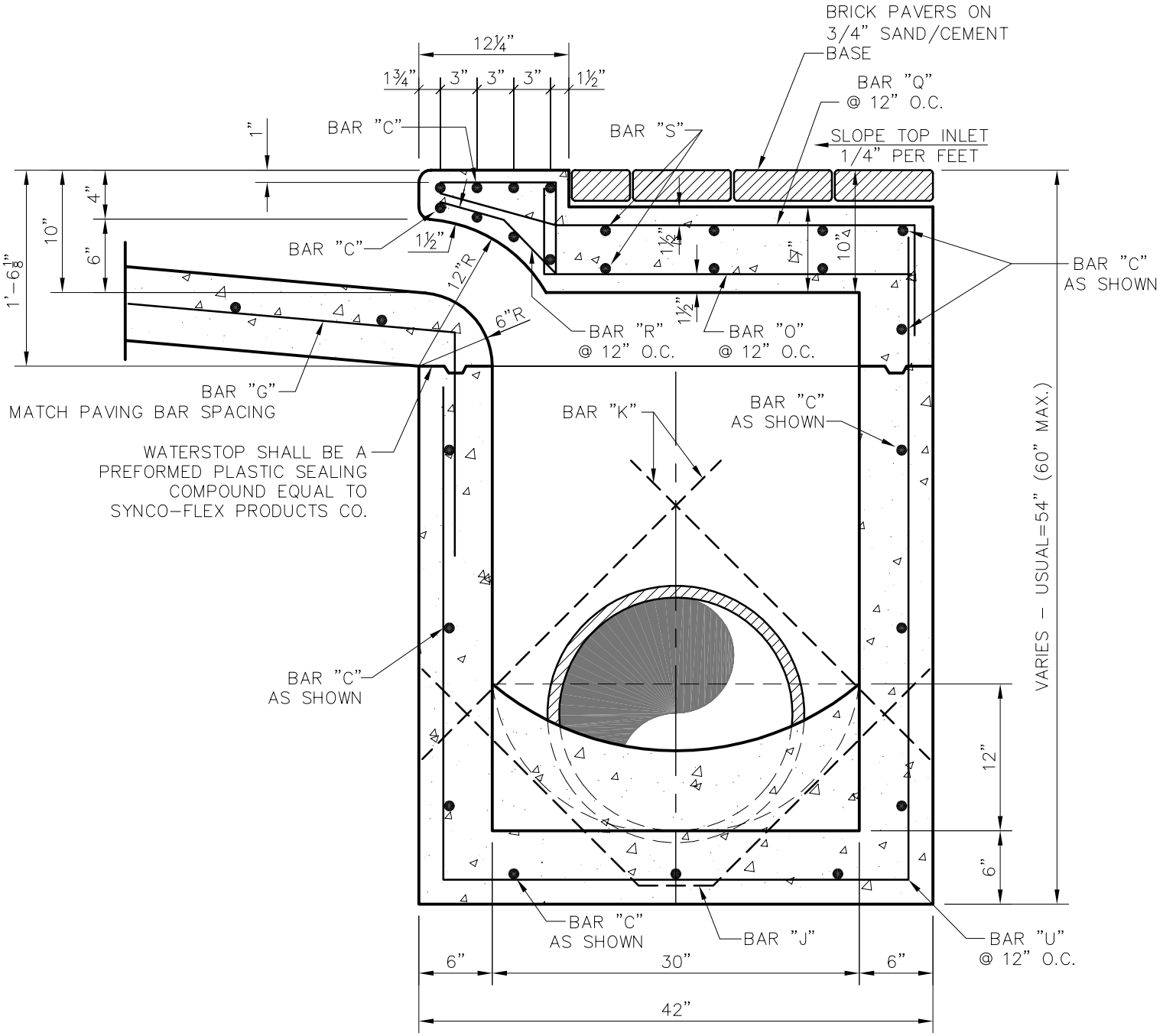
NTS



SECTION A

NTS

Addison! PUBLIC WORKS DEPARTMENT	RECESSED BRICK TOP CURB INLET 4, 6, 8 & 10 FOOT INLETS	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–D16



PUBLIC WORKS DEPARTMENT

TYPICAL SECTION "B"
BRICK TOP CURB INLETS
(4, 6, 8 & 10 FOOT INLETS)

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

DATE:	REV DATE:	SHEET :
AUGUST, 2010	–	SD-D17

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'	C	4	19	4'–8"	0'–6"	–
	D	4	9	4'–5"	–	–
	G	3	4	2'–0"	1'–3"	–
	J	5	1	*	*	*
	K	5	2	3'–2"	0'–6"	–
	L	4	11	3'–2"	0'–6"	–
	M	4	2	3'–0"**	–	–
	O	6	6	2'–5"	7"	–
	Q	4	6	*	*	*
	R	3	5	*	*	*
	S	5	6	4'–8"	8–1/2"	–
	T	4	2	36"	–	–
	U	5	3	3'–2"	3'–2"	4'–5"
6'	C	4	19	6'–8"	0'–6"	–
	D	4	9	4'–5"	–	–
	G	3	6	2'–0"	1'–3"	–
	J	5	1	*	*	*
	K	5	2	3'–2"	0'–6"	–
	L	4	11	3'–2"	0'–6"	–
	M	4	2	3'–0"**	–	–
	O	6	8	2'–5"	7"	–
	Q	4	8	*	*	*
	R	3	7	*	*	*
	S	5	6	6'–8"	8–1/2"	–
	T	4	2	36"	–	–
	U	5	5	3'–2"	3'–2"	4'–5"
8'	C	4	19	8'–8"	0'–6"	–
	D	4	9	4'–5"	–	–
	G	3	7	2'–0"	1'–3"	–
	J	5	1	*	*	*
	K	5	2	3'–2"	0'–6"	–
	L	4	11	3'–2"	0'–6"	–
	M	4	2	3'–0"**	–	–
	O	6	10	2'–5"	7"	–
	Q	4	10	*	*	*
	R	3	9	*	*	*
	S	5	6	8'–8"	8–1/2"	–
	T	4	2	36"	–	–
	U	5	7	3'–2"	3'–2"	4'–5"
10'	C	4	19	10'–8"	0'–6"	–
	D	4	9	4'–5"	–	–
	G	3	9	2'–0"	1'–3"	–
	J	5	1	*	*	*
	K	5	2	3'–2"	0'–6"	–
	L	4	11	3'–2"	0'–6"	–
	M	4	2	3'–0"**	–	–
	O	6	12	2'–5"	7"	–
	Q	4	12	*	*	*
	R	3	11	*	*	*
	S	5	6	10'–10"	8–1/2"	–
	T	4	2	36"	–	–
	U	5	9	3'–2"	3'–2"	4'–5"

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

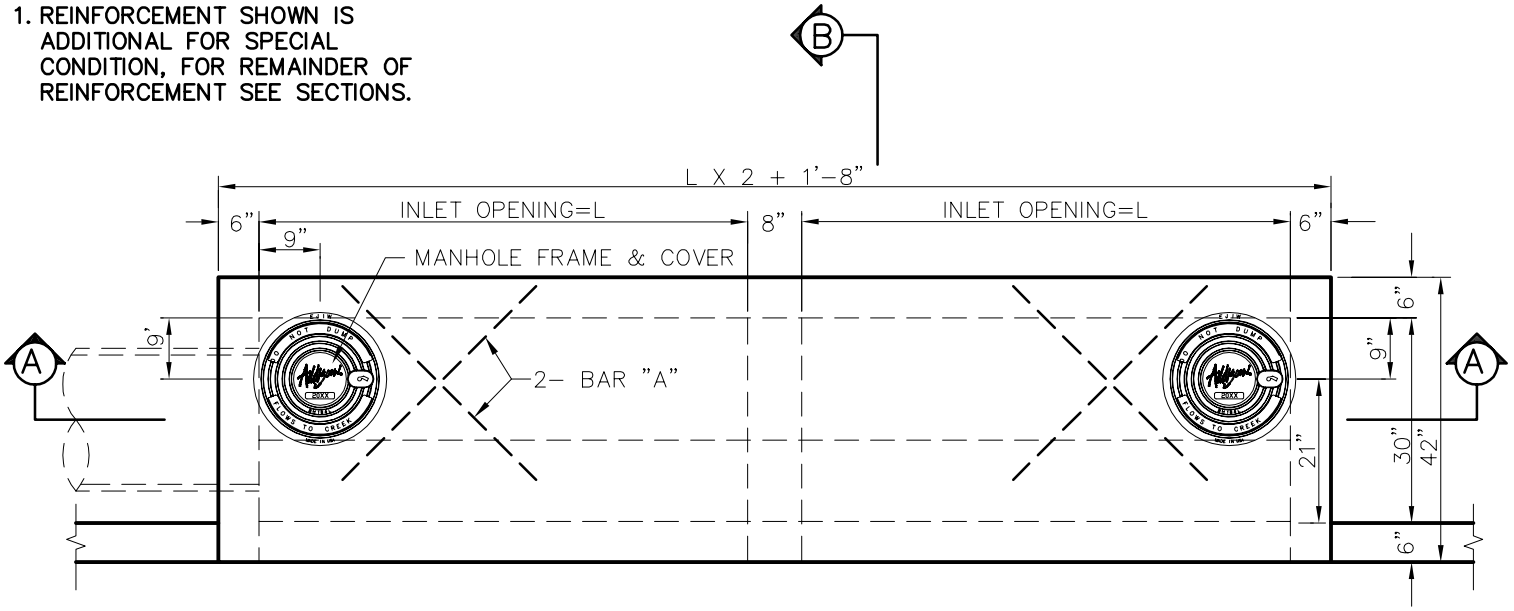
Addison!
PUBLIC WORKS DEPARTMENT

REINFORCING STEEL SCHEDULE 4, 6, 8 & 10 FOOT INLETS (BRICK ON INLET)

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

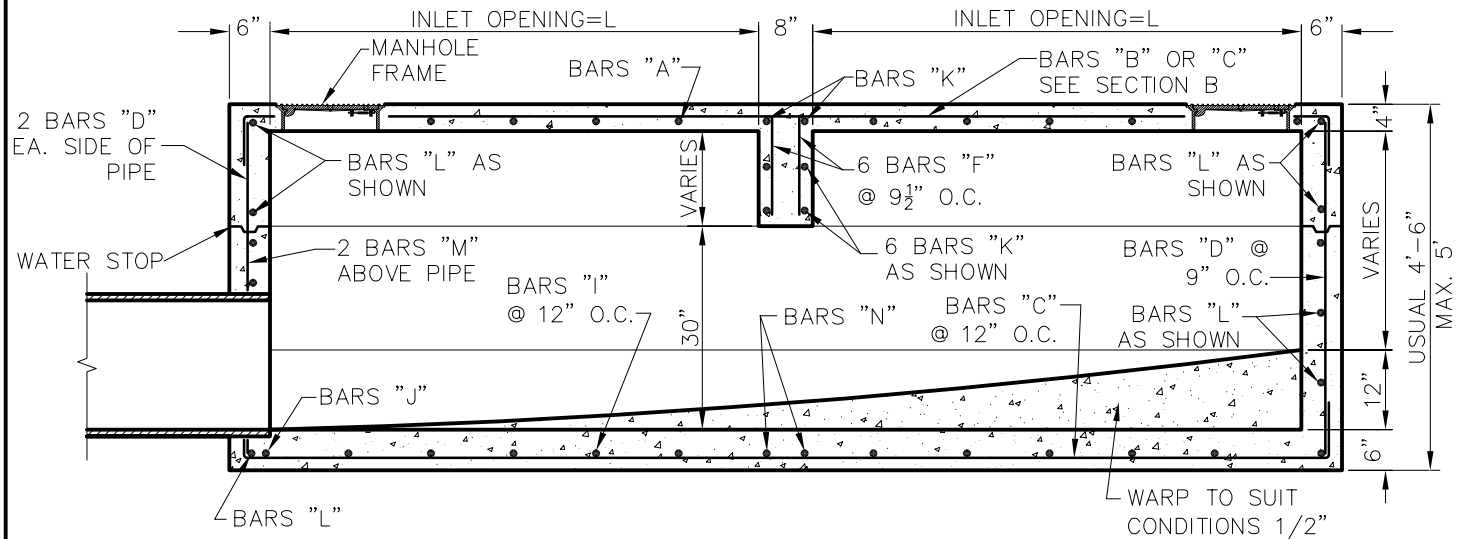
DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–D18

NOTE:
1. REINFORCEMENT SHOWN IS ADDITIONAL FOR SPECIAL CONDITION, FOR REMAINDER OF REINFORCEMENT SEE SECTIONS.



PLAN–STANDARD INLET

NTS



NOTE:
1. BACKFILL AROUND INLET SHALL BE FLOWABLE BACKFILL PER NCTCOG 504.2.3.4

SECTION A

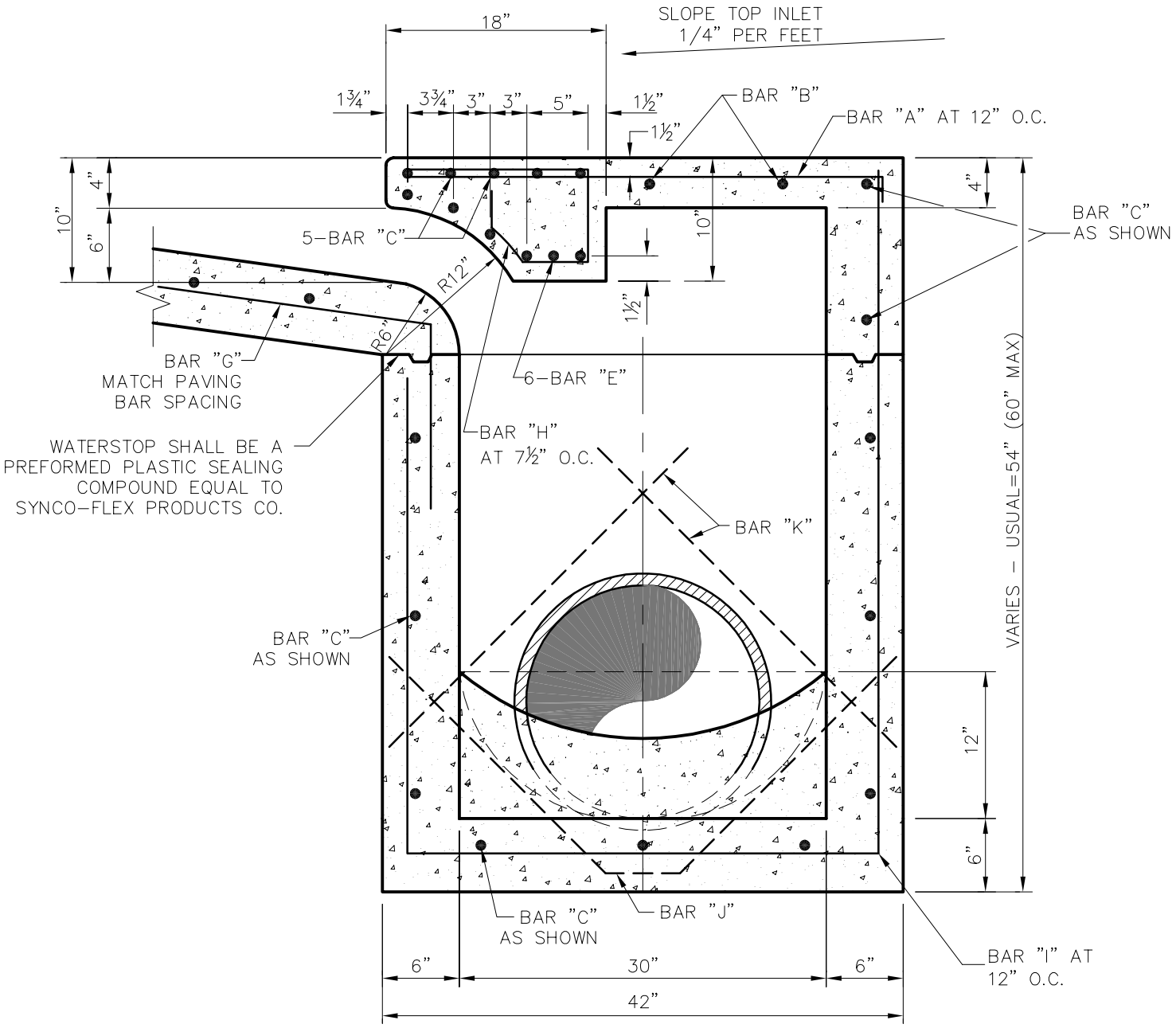
NTS

Addison!
PUBLIC WORKS DEPARTMENT

STANDARD CURB INLET
12, 14, 16 & 20 FOOT INLETS

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

DATE:	REV DATE:	SHEET :
AUGUST, 2010	–	SD–D19



SECTION "B"

NTS

Addison! PUBLIC WORKS DEPARTMENT	TYPICAL SECTION "B" STANDARD & RECESSED CURB INLETS (12, 14, 16 & 20 FOOT INLETS)	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD-D20

REINFORCING STEEL SCHEDULE

DIMENSIONS ARE FOR MAXIMUM SIZE INLETS

INLET LENGTH	BAR TYPE	BAR DIA (1/8")	NO REQ'D	BAR DIMENSIONS			INLET LENGTH	BAR TYPE	BAR DIA. (1/8")	NO REQ'D	BAR DIMENSIONS		
				A	B	C					A	B	C
6'	A	3	12	3'–2"	0'–6"	–	8'	A	3	16	3'–2"	0'–6"	–
	B	3	2	11'–6"	–	–		B	3	2	15'–6"	–	–
	C	4	16	13'–4"	0'–6"	–		C	4	16	17'–4"	0'–6"	–
	D	4	9	4'–8"	–	–		D	4	9	4'–8"	–	–
	E	5	6	13'–4"	–	–		E	5	6	17'–4"	–	–
	F	4	10	1'–2"	–	–		F	4	10	1'–2"	–	–
	G	3	11	2'–0"	1'–3"	–		G	3	13	2'–0"	1'–3"	–
	H	3	20	*	*	*		H	3	26	*	*	*
	I	4	12	3'–2"	3'–2"	4'–8"		I	4	16	3'–2"	3'–2"	4'–8"
	J	5	1	*	*	*		J	5	1	*	*	*
	K	5	8	3'–2"	0'–6"	–		K	5	8	3'–2"	0'–6"	–
	L	4	11	3'–2"	0'–6"	–		L	4	11	3'–2"	0'–6"	–
	M	4	2	3'–0"**	–	–		M	4	2	3'–0"**	–	–
	N	4	2	3'–2"	4'–8"	–		N	4	2	3'–2"	4'–8"	–
7'	A	3	14	3'–2"	0'–6"	–	10'	A	3	20	3'–2"	0'–6"	–
	B	3	2	13'–6"	–	–		B	3	2	19'–6"	–	–
	C	4	16	15'–4"	0'–6"	–		C	4	16	21'–4"	0'–6"	–
	D	4	9	4'–8"	–	–		D	4	9	4'–8"	–	–
	E	5	6	15'–4"	–	–		E	5	6	21'–4"	–	–
	F	4	10	1'–2"	–	–		F	4	10	1'–2"	–	–
	G	3	12	2'–0"	1'–3"	–		G	3	16	2'–0"	1'–3"	–
	H	3	22	*	*	*		H	3	32	*	*	*
	I	4	14	3'–2"	3'–2"	4'–8"		I	4	20	3'–2"	3'–2"	4'–8"
	J	5	1	*	*	*		J	5	1	*	*	*
	K	5	8	3'–2"	0'–6"	–		K	5	8	3'–2"	0'–6"	–
	L	4	11	3'–2"	0'–6"	–		L	4	11	3'–2"	0'–6"	–
	M	4	2	3'–0"**	–	–		M	4	2	3'–0"**	–	–
	N	4	2	3'–2"	4'–8"	–		N	4	2	3'–2"	4'–8"	–

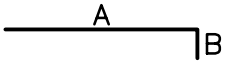
* SEE DIAGRAM FOR DIMENSION
** FIELD CUT AS REQUIRED TO ACCOMMODATE DRAIN PIPE

Addison!
PUBLIC WORKS DEPARTMENT

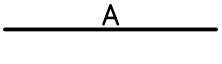
REINFORCING STEEL SCHEDULE
12, 14, 16 & 20 FOOT INLETS

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

DATE:	REV DATE:	SHEET :
AUGUST, 2010	–	SD–D21



BAR "A"

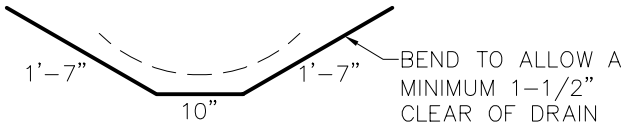


BAR "E"

BAR "I"

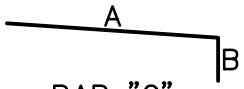
BAR "B"

BAR "F"



BAR "J"

BAR "C"

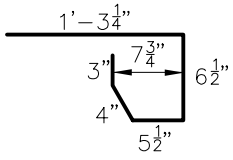


BAR "G"

BAR "K"

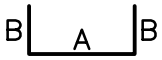
BAR "M"

BAR "D"



BAR "H"

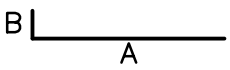
BAR "L"



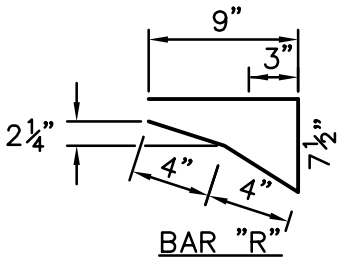
BAR "N"

REINFORCING BAR DIAGRAMS

NTS

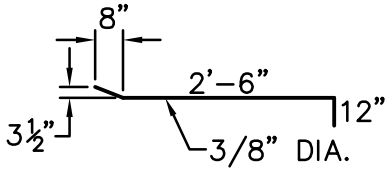


BAR "O"

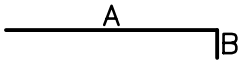


BAR "R"

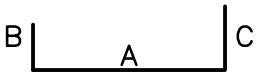
BAR "T"



BAR "Q"



BAR "S"



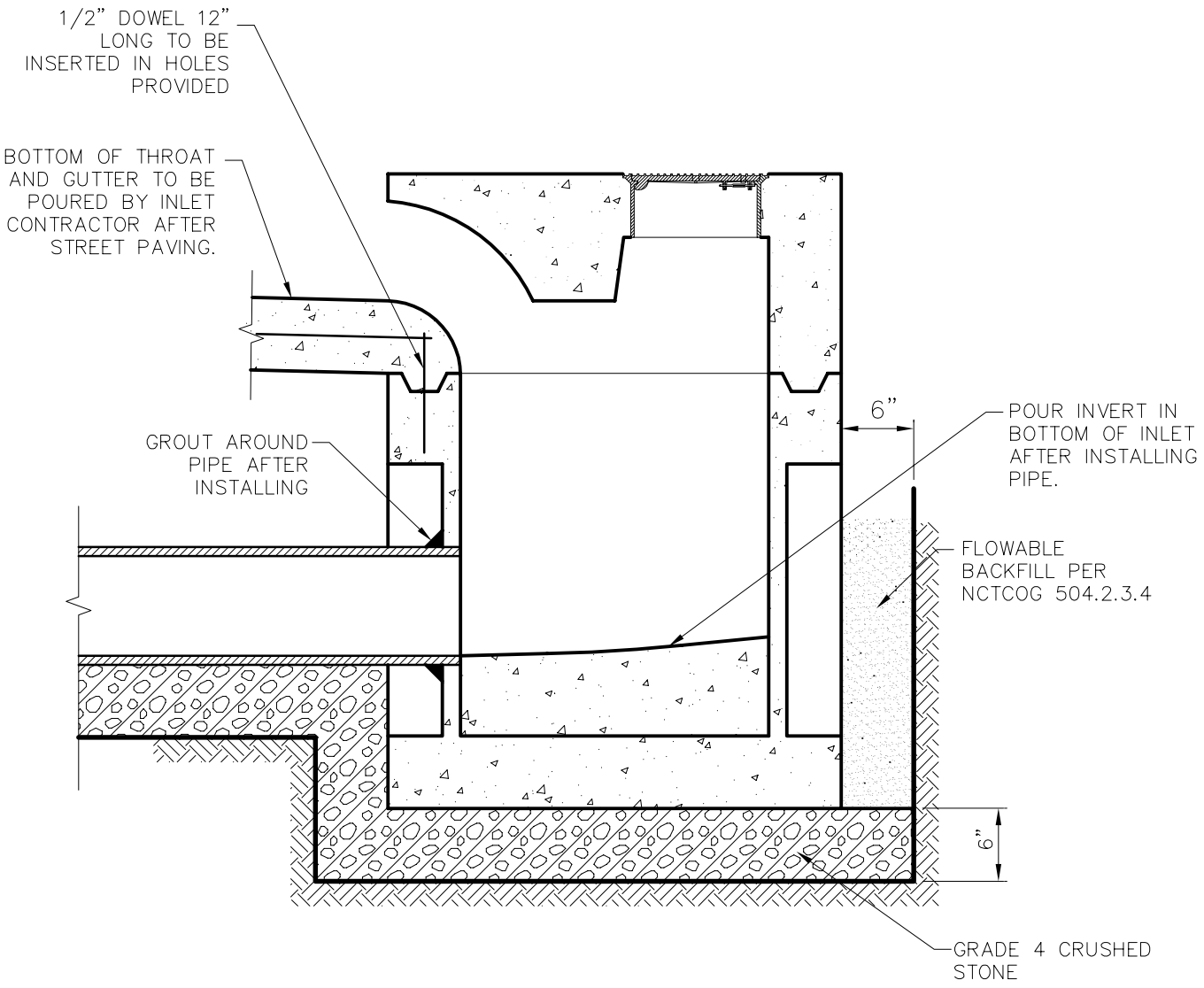
BAR "U"

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-D22



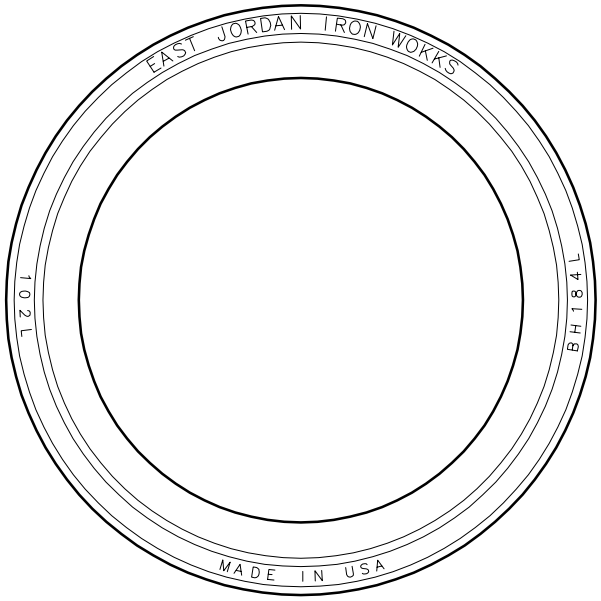
INSTALLATION DRAWING FOR PRECAST 5' AND 10' CURB INLETS

NTS

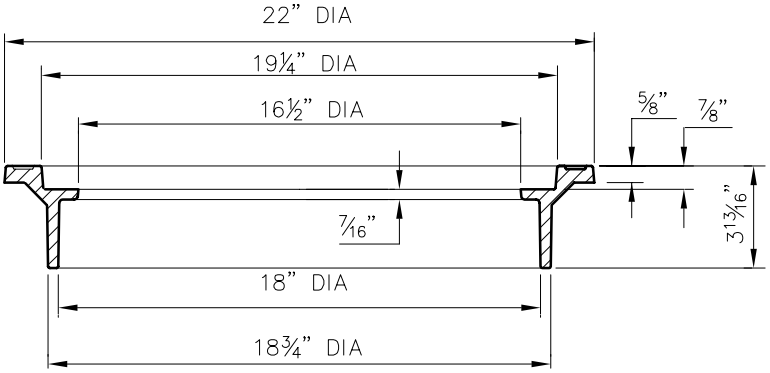
NOTES:

1. FOR PRECAST INLET THE FLOOR OF THE EXCAVATION MUST PROVIDE A FIRM, LEVEL BED FOR THE BASE SECTION TO REST UPON.
2. PIPES SHALL CONNECT TO THE SIDES OF THE INLETS. CONNECTIONS NOT TO BE MADE AT CORNERS OR BOTTOM.
3. PRECAST INLETS MUST BE APPROVED BY PUBLIC WORKS DEPARTMENT.

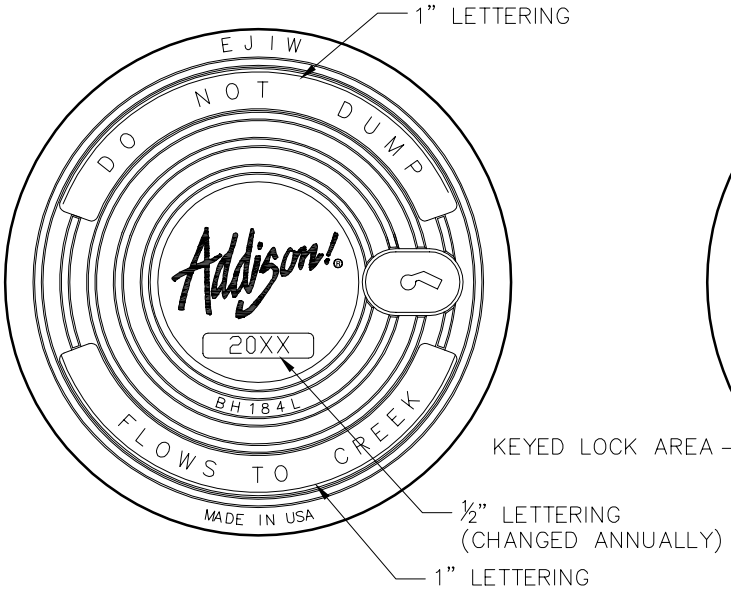
Addison! PUBLIC WORKS DEPARTMENT	PRECAST CURB INLET	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–D23



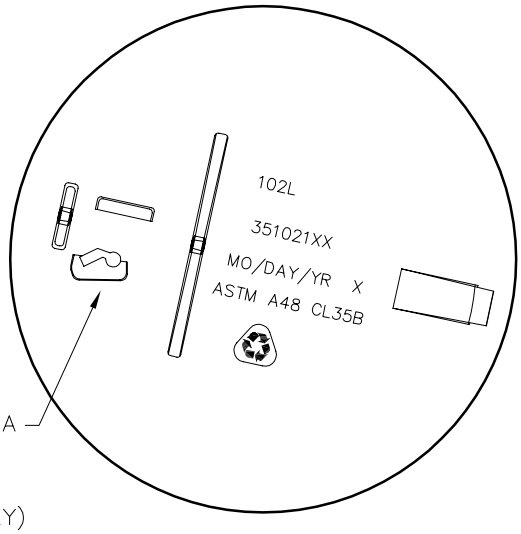
RING



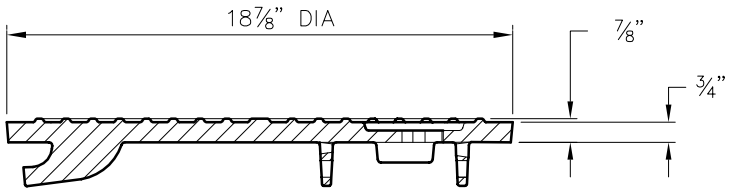
RING SECTION



COVER



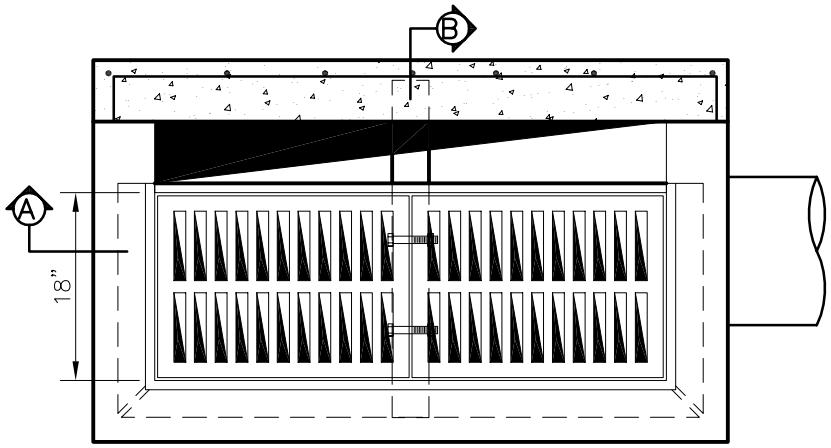
COVER BOTTOM VIEW



COVER SECTION

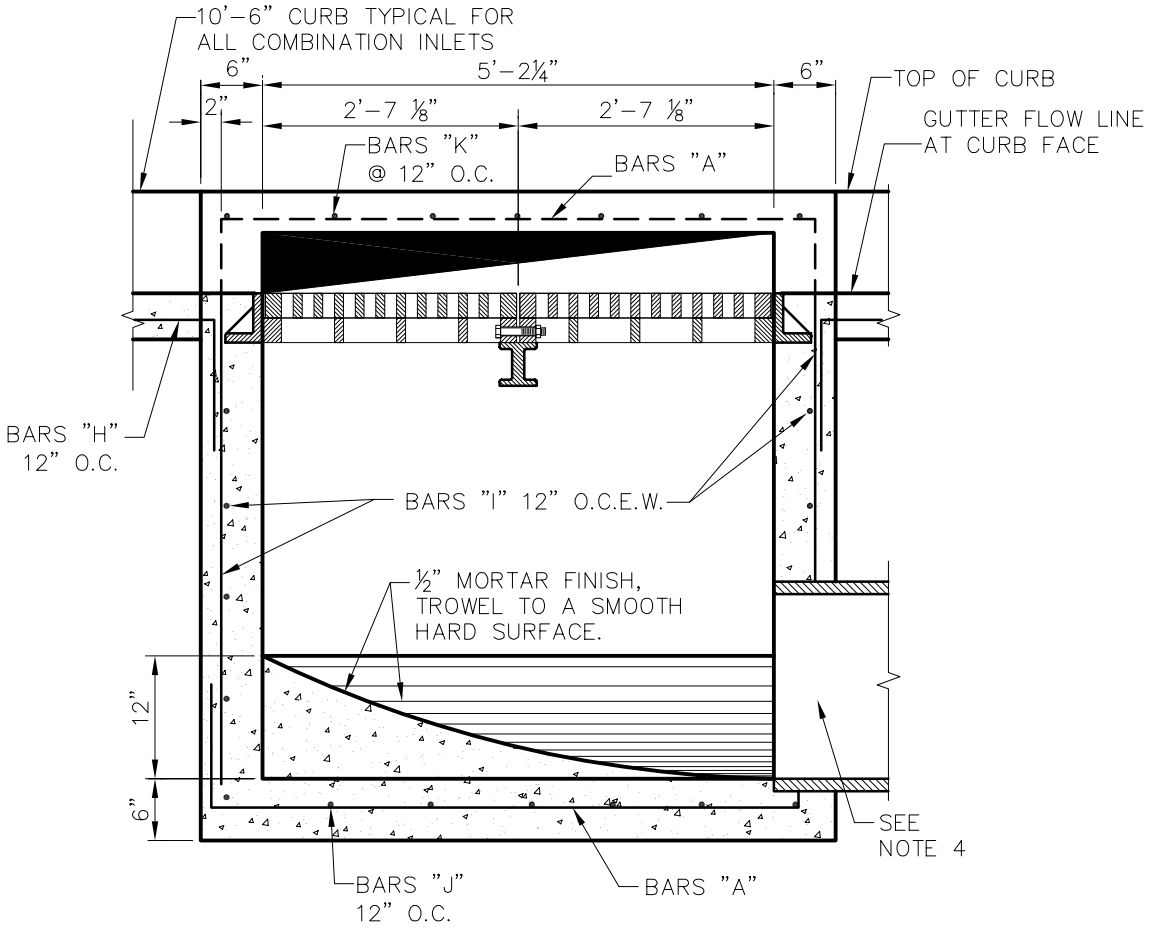
NOTE:
FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS FRAME PRODUCT #35202000 AND COVER PRODUCT #NCR08-0060B OR APPROVED EQUAL AND SHALL BE GRAY CAST IRON CONFORMING TO ASTM A48-CL35B.

Addison! PUBLIC WORKS DEPARTMENT	INLET FRAME & COVER	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD-D24



PLAN

NTS



SECTION A

NTS

NOTES:

1. COMBINATION INLETS TO BE USED IN ALL ALLEYS WHERE INLETS ARE REQUIRED.
2. ALL LAPS AND EXTENSION OF REINFORCING BARS SHALL BE 36 BAR DIAMETERS UNLESS NOTED OTHERWISE.
3. TACK WELD GRATES IN PLACE.
4. PIPE MAY BE PLACED IN ANY WALL, BUT SHALL NOT ENTER ANY CORNER OR BOTTOM.
5. ALL CAST IRON FITTINGS SHALL BE DOMESTIC.
6. ALL FASTENERS SHALL BE GALVANIZED.

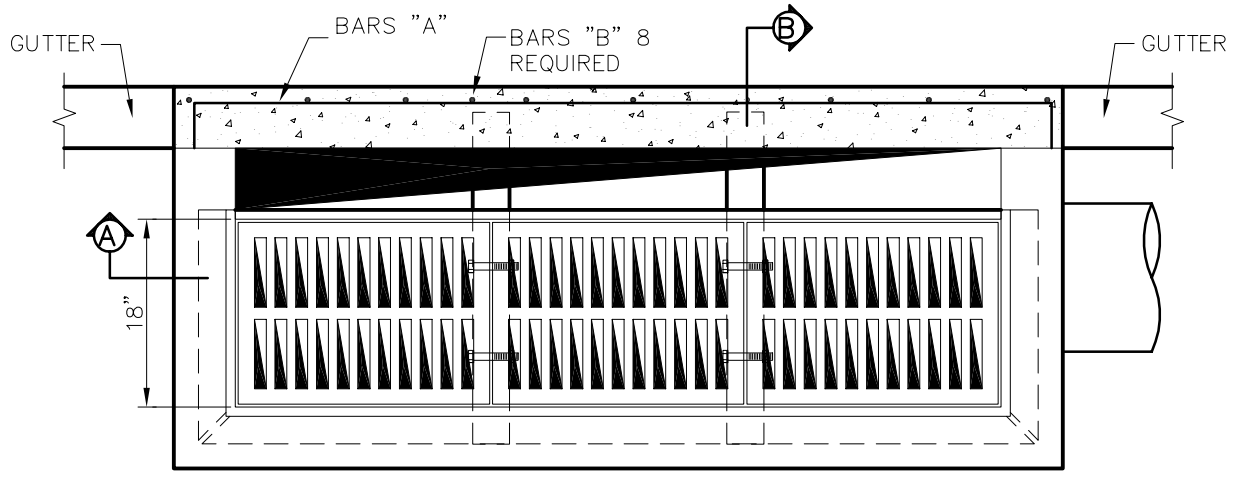
Addison!

PUBLIC WORKS DEPARTMENT

COMBINATION INLET TWO GRATE INLET

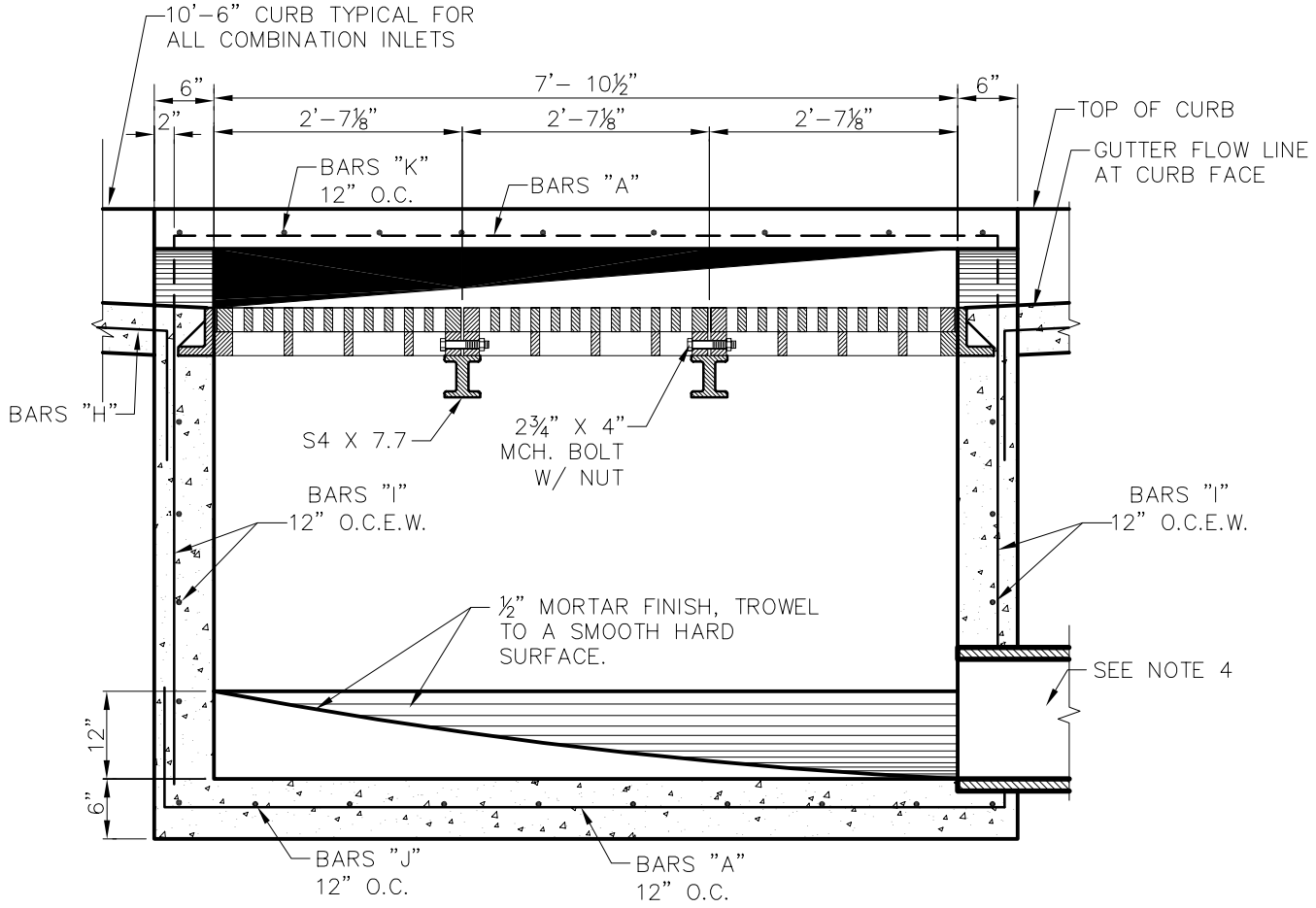
STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

DATE:	REV DATE:	SHEET :
AUGUST, 2010	–	SD-D25



PLAN

NTS



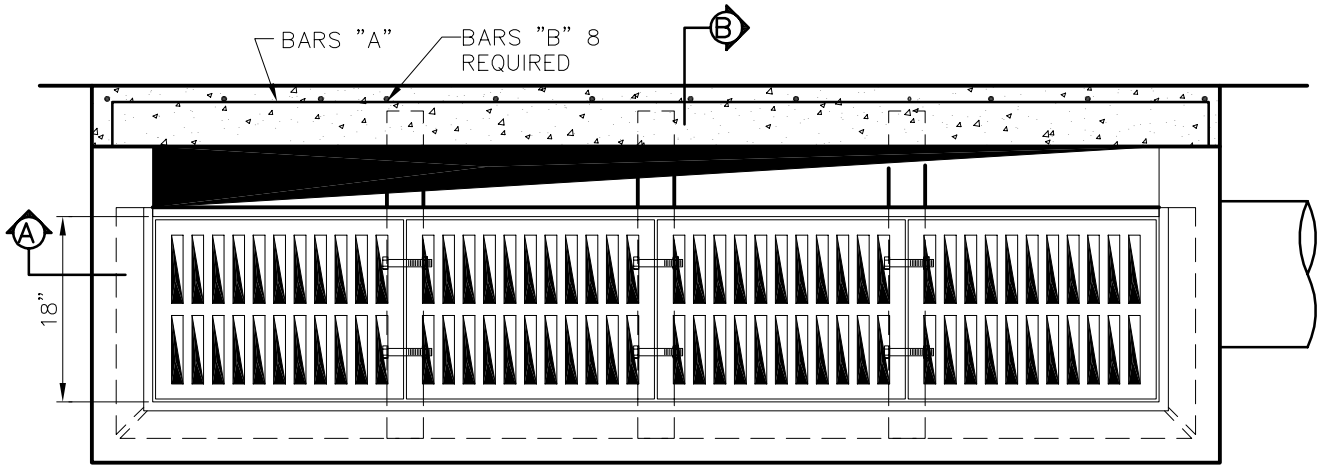
SECTION A

NTS

NOTES:

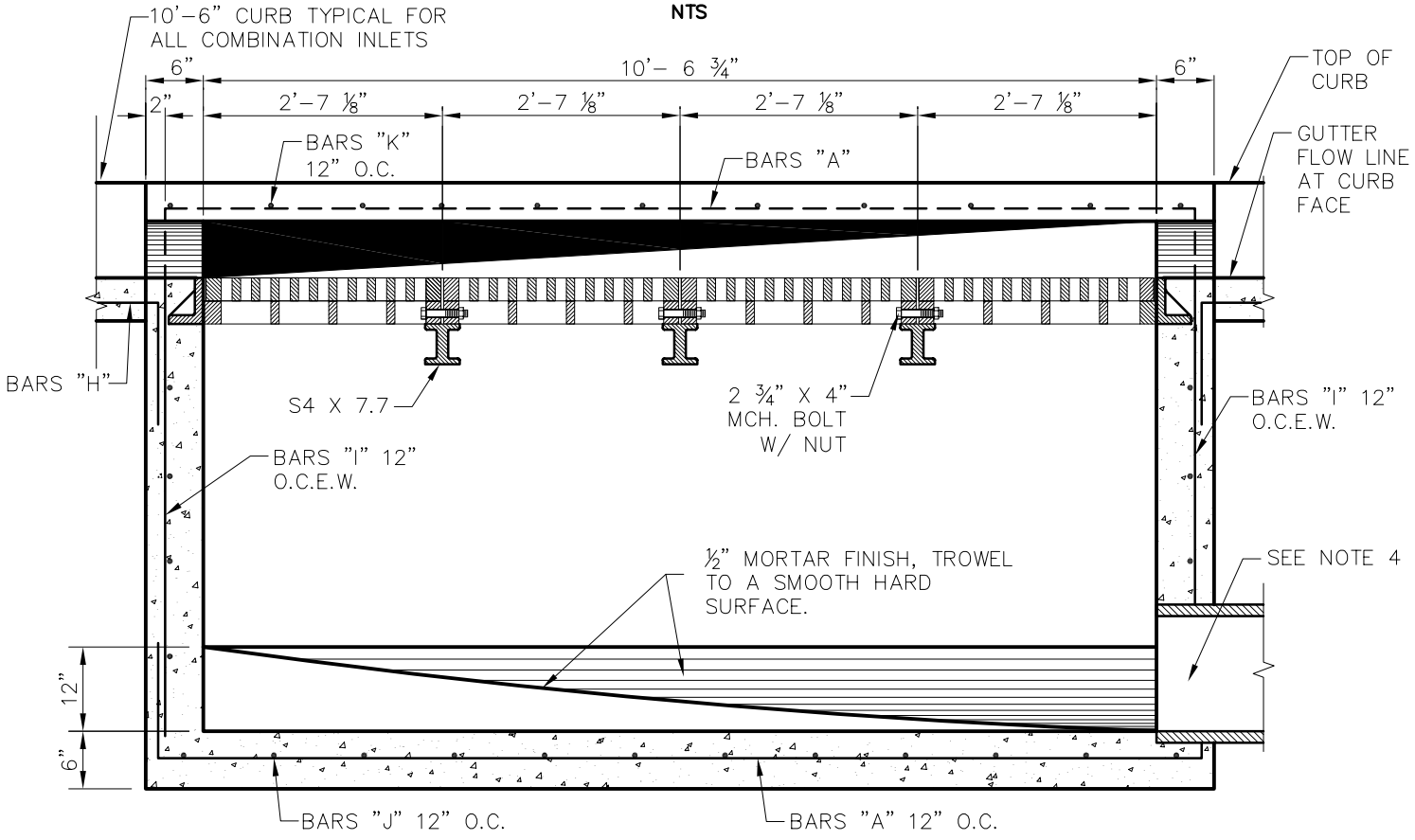
1. COMBINATION INLETS TO BE USED IN ALL ALLEYS WHERE INLETS ARE REQUIRED.
2. ALL LAPS AND EXTENSION OF REINFORCING BARS SHALL BE 36 BAR DIAMETERS UNLESS NOTED OTHERWISE.
3. TACK WELD GRATES IN PLACE.
4. PIPE MAY BE PLACED IN ANY WALL, BUT SHALL NOT ENTER ANY CORNER OR BOTTOM.
5. ALL CAST IRON FITTINGS SHALL BE DOMESTIC.
6. ALL FASTENERS SHALL BE GALVANIZED.

Addison! PUBLIC WORKS DEPARTMENT	COMBINATION INLET THREE GRATE INLET	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD-D26



PLAN

NTS



SECTION A

NTS

NOTES:

1. COMBINATION INLETS TO BE USED IN ALL ALLEYS WHERE INLETS ARE REQUIRED.
2. ALL LAPS AND EXTENSION OF REINFORCING BARS SHALL BE 36 BAR DIAMETERS UNLESS NOTED OTHERWISE.
3. TACK WELD GRATES IN PLACE.
4. PIPE MAY BE PLACED IN ANY WALL, BUT SHALL NOT ENTER ANY CORNER OR BOTTOM.
5. ALL CAST IRON FITTINGS SHALL BE DOMESTIC.
6. ALL FASTENERS SHALL BE GALVANIZED.

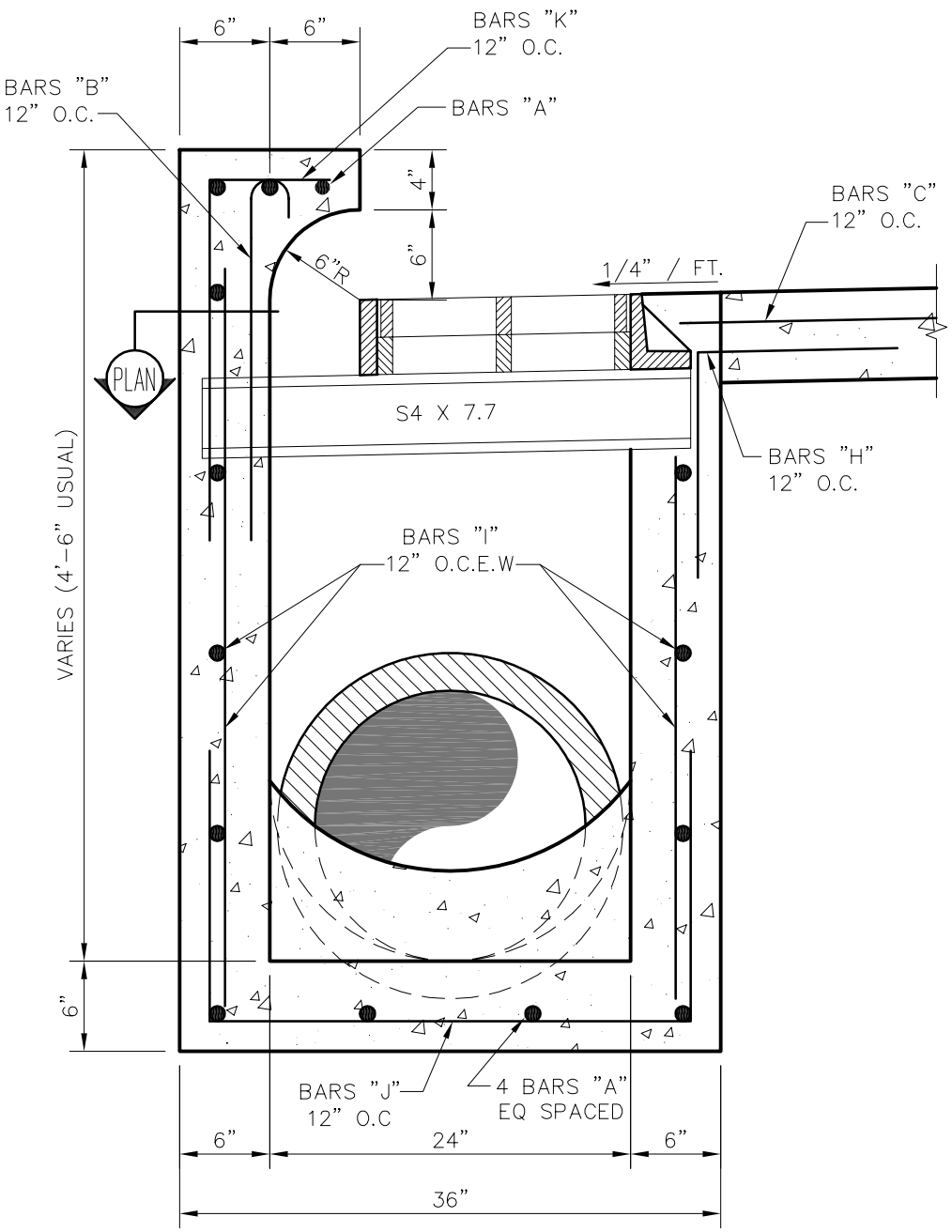
Addison!

PUBLIC WORKS DEPARTMENT

COMBINATION INLET FOUR GRATE INLET

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

DATE:	REV DATE:	SHEET :
AUGUST, 2010	–	SD-D27



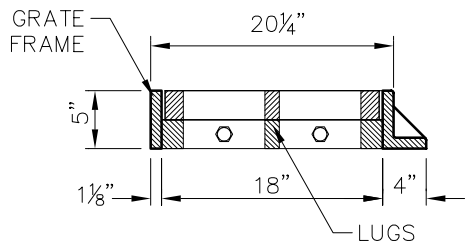
SECTION B

NTS

NOTES:

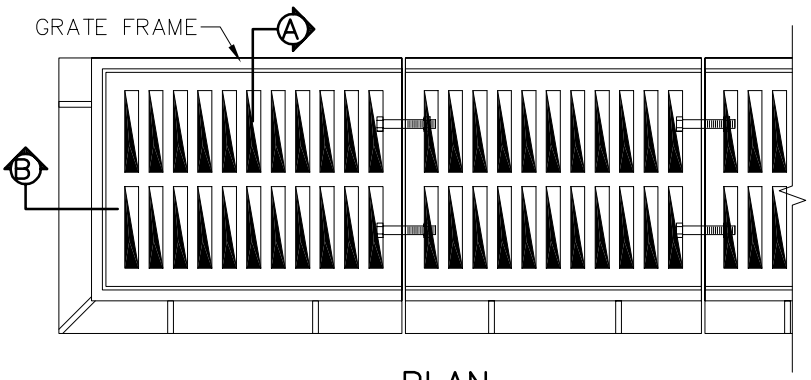
1. COMBINATION INLETS TO BE USED IN ALL ALLEYS WHERE INLETS ARE REQUIRED.
2. ALL LAPS AND EXTENSION OF REINFORCING BARS SHALL BE 36 BAR DIAMETERS UNLESS NOTED OTHERWISE.
3. TACK WELD GRATES IN PLACE.
4. PIPE MAY BE PLACED IN ANY WALL, BUT SHALL NOT ENTER ANY CORNER OR BOTTOM.
5. ALL CAST IRON FITTINGS SHALL BE DOMESTIC.
6. ALL FASTENERS SHALL BE GALVANIZED.

Addison! PUBLIC WORKS DEPARTMENT	TYPICAL SECTION "B" COMBINATION INLET TWO, THREE & FOUR GRATE INLETS	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD-D28



SECTION A

NTS

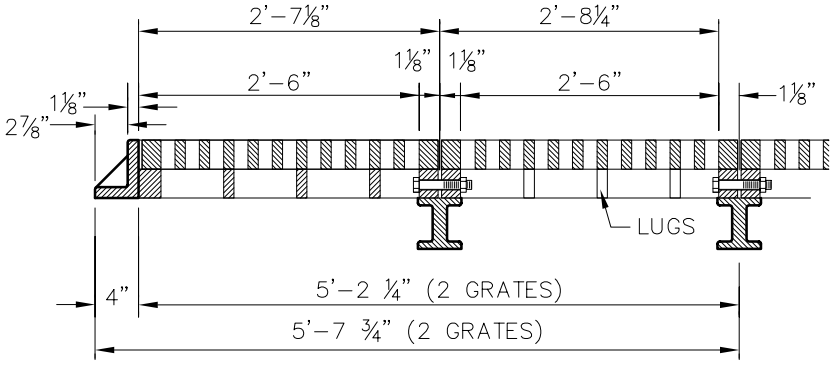


PLAN

NTS

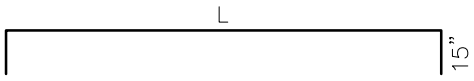
NOTES:

1. ALL LAPS AND EXTENSION OF REINFORCING BARS SHALL BE 36 BAR IN 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.
4. GRATE AND FRAME SHALL BE PATTERN No. 814AS MANUFACTURED BY BASS & HAYES FOUNDRY, INC. OR APPROVED EQUAL.
5. ALL CAST IRON FITTINGS SHALL BE DOMESTIC.
6. ALL FASTENERS SHALL BE GALVANIZED.



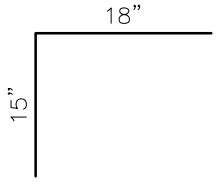
SECTION B

NTS

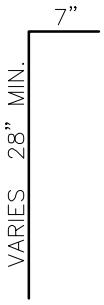


BARS "A" 5/8"ø

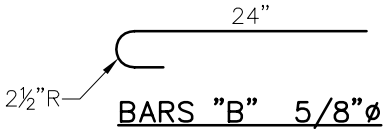
TWO GRATE INLET , L=5'–10 ¼"
THREE GRATE INLET , L=8'–6 ½"
FOUR GRATE INLET , L=11'–2 ¾"



BARS "H" 5/8"ø

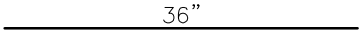


BARS "K" 5/8"ø

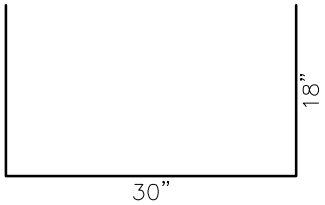


BARS "B" 5/8"ø

BARS "I" 5/8"ø



BARS "C" 3/8"ø



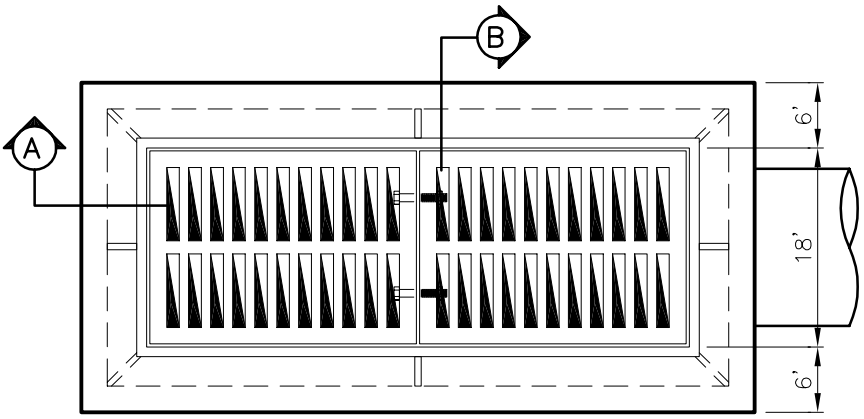
BARS "J" 5/8"ø

PUBLIC WORKS DEPARTMENT

COMBINATION INLETS GRATE DETAILS AND BAR DIAGRAMS

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

DATE:	REV DATE:	SHEET :
AUGUST, 2010	–	SD–D29

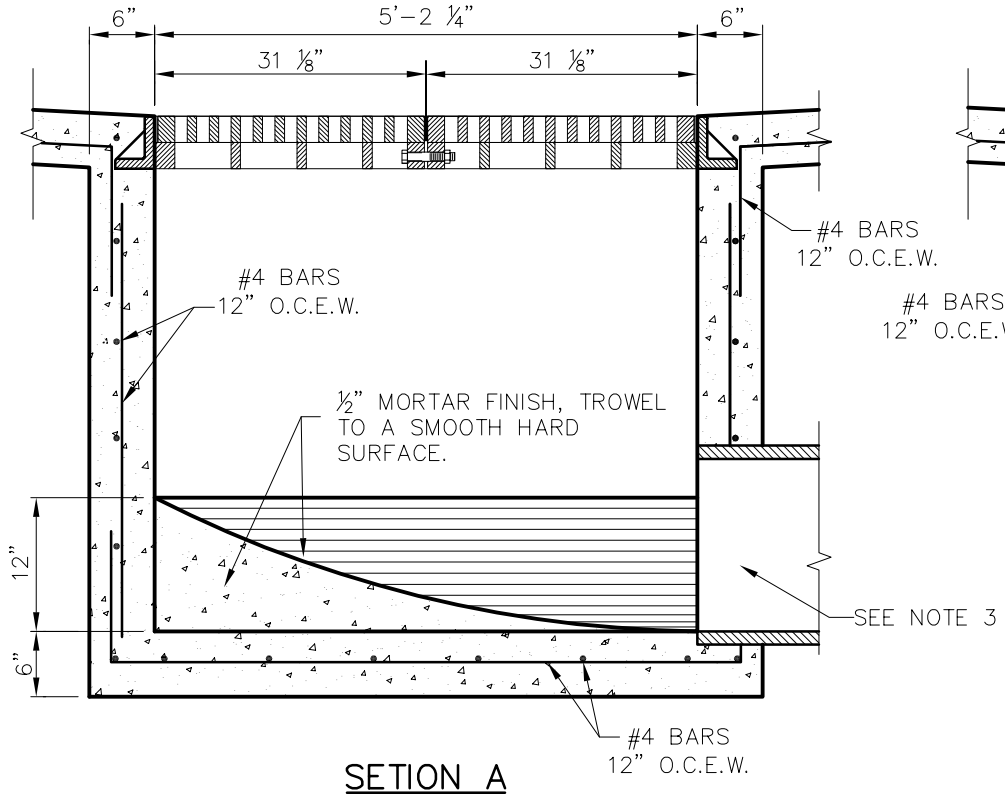


PLAN

NTS

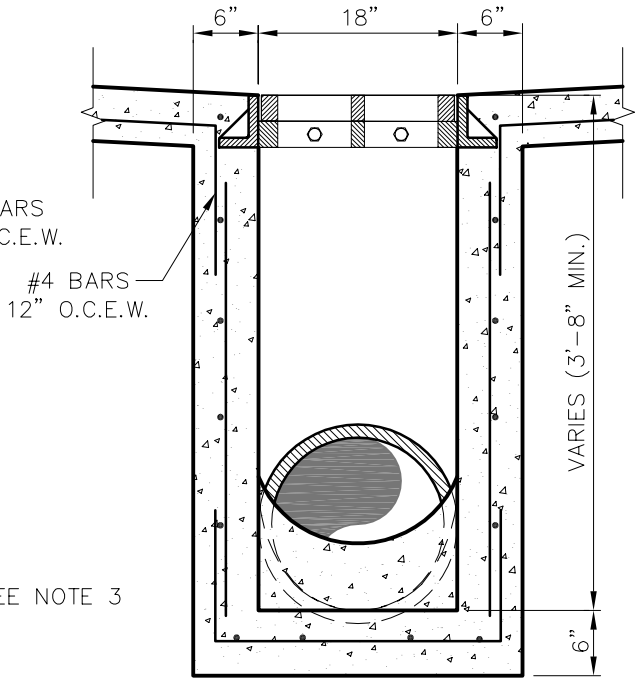
NOTES:

1. ALL LAPS AND EXTENSION 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.
4. ALL CAST IRON FITTINGS SHALL BE DOMESTIC.
5. ALL FASTENERS SHALL BE GALVANIZED.



SETION A

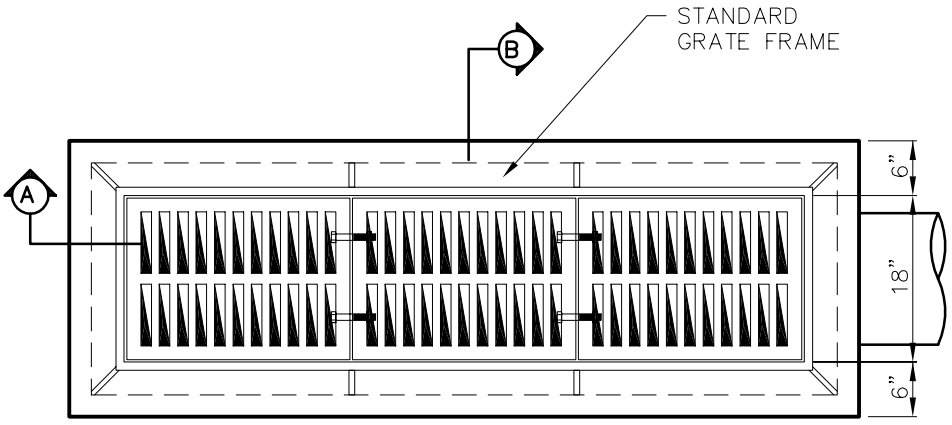
NTS



SECTION B

NTS

Addison! PUBLIC WORKS DEPARTMENT	TWO GRATE INLET	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD-D30

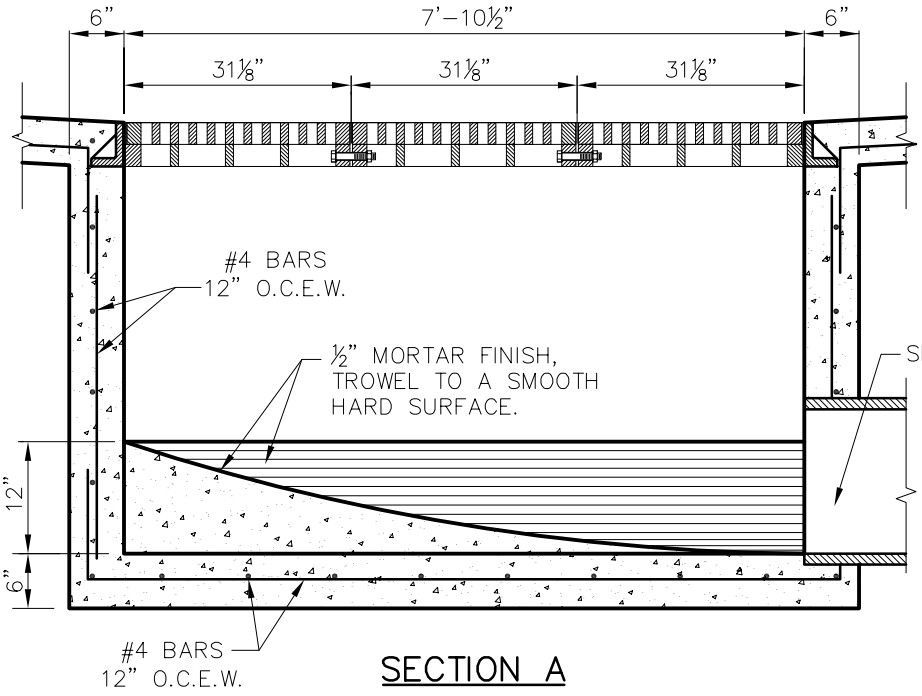


PLAN

NTS

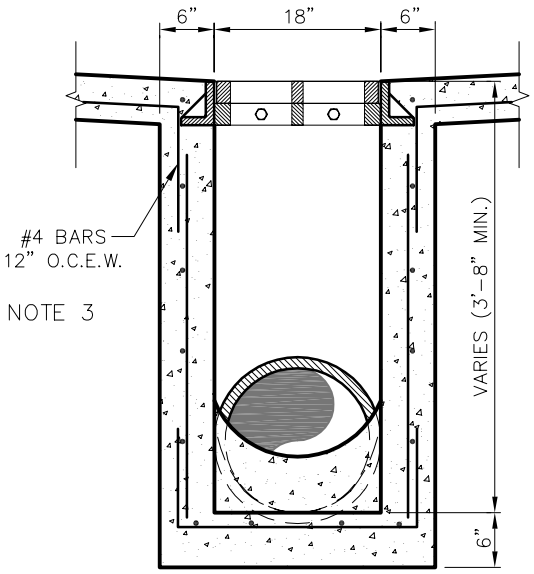
NOTES:

1. ALL LAPS AND EXTENSION 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.
4. ALL CAST IRON FITTINGS SHALL BE DOMESTIC.
5. ALL FASTENERS SHALL BE GALVANIZED.



SECTION A

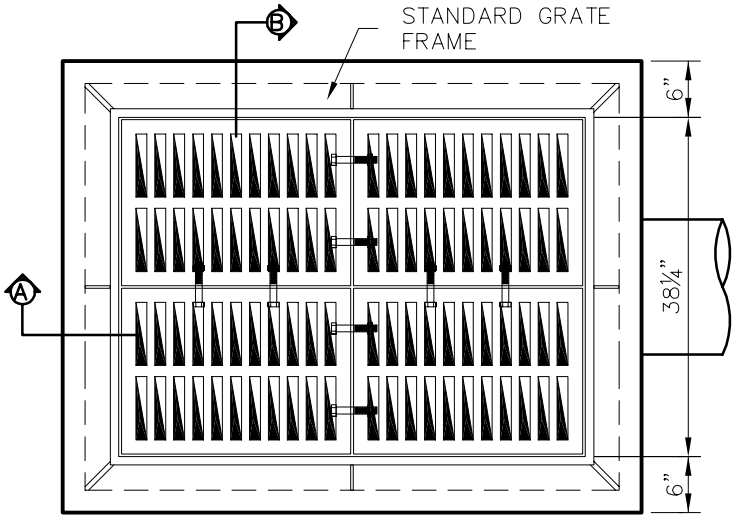
NTS



SECTION B

NTS

Addison! PUBLIC WORKS DEPARTMENT	THREE GRATE INLET	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–D31

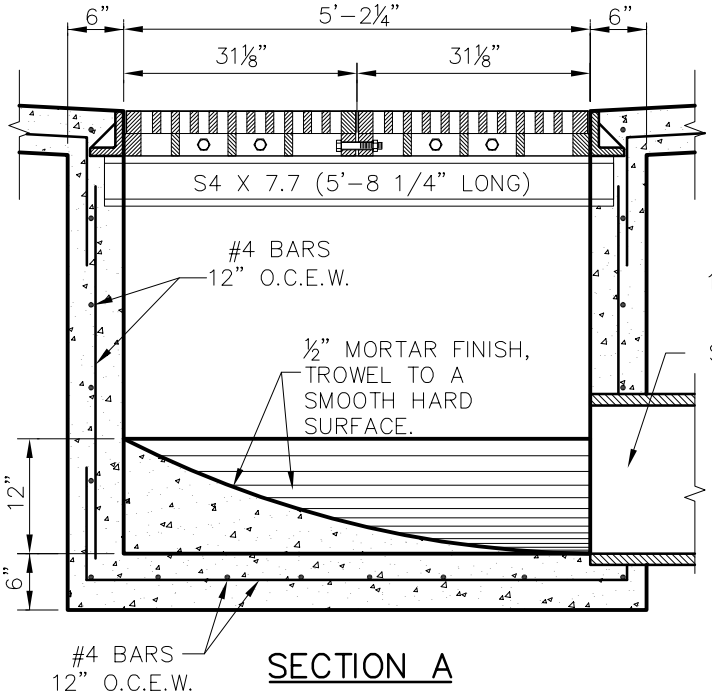


PLAN

NTS

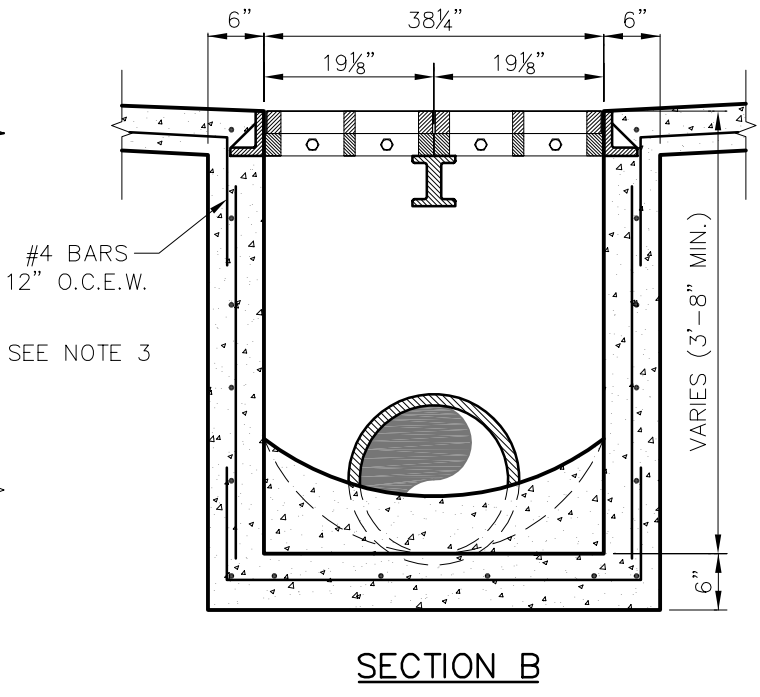
NOTES:

1. ALL LAPS AND EXTENSION 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.
4. ALL CAST IRON FITTINGS SHALL BE DOMESTIC.
5. ALL FASTENERS SHALL BE GALVANIZED.



SECTION A

NTS



SECTION B

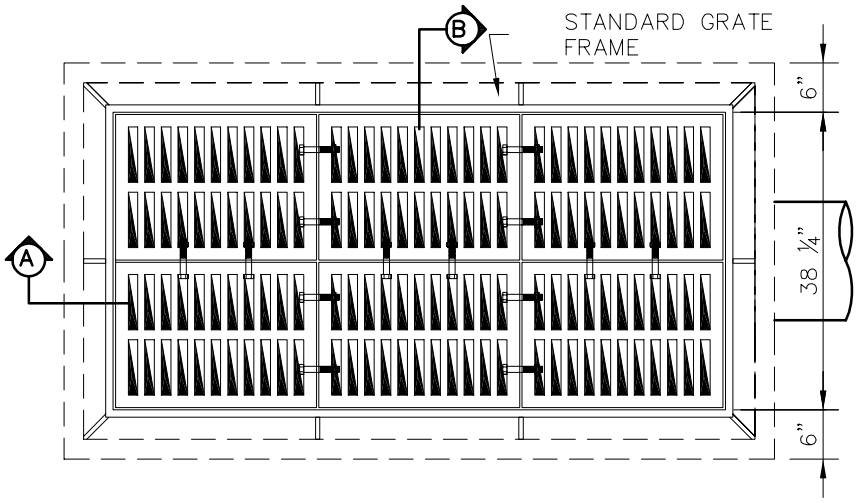
NTS

PUBLIC WORKS DEPARTMENT

FOUR GRATE INLET

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

DATE:	REV DATE:	SHEET :
AUGUST, 2010	–	SD–D32

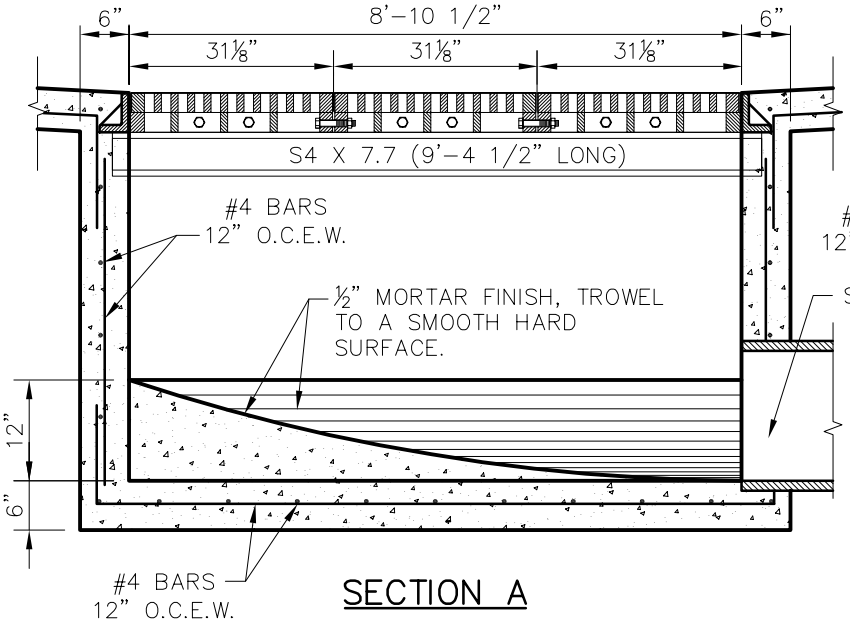


PLAN

NTS

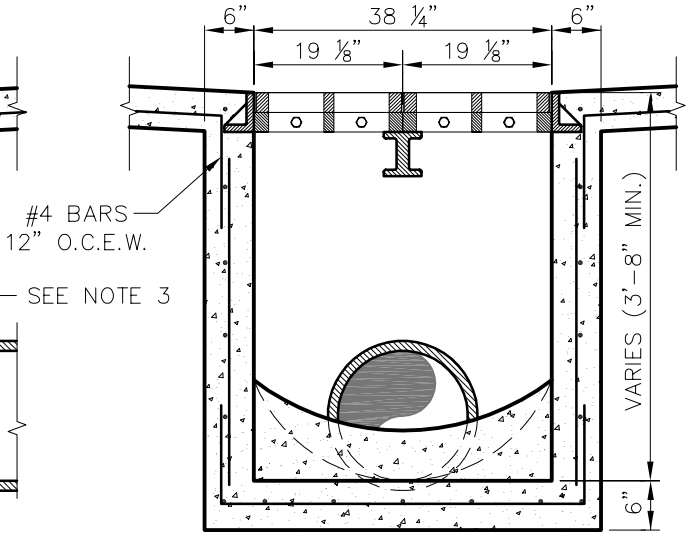
NOTES:

1. ALL LAPS AND EXTENSION 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.
4. ALL CAST IRON FITTINGS SHALL BE DOMESTIC.
5. ALL FASTENERS SHALL BE GALVANIZED.



SECTION A

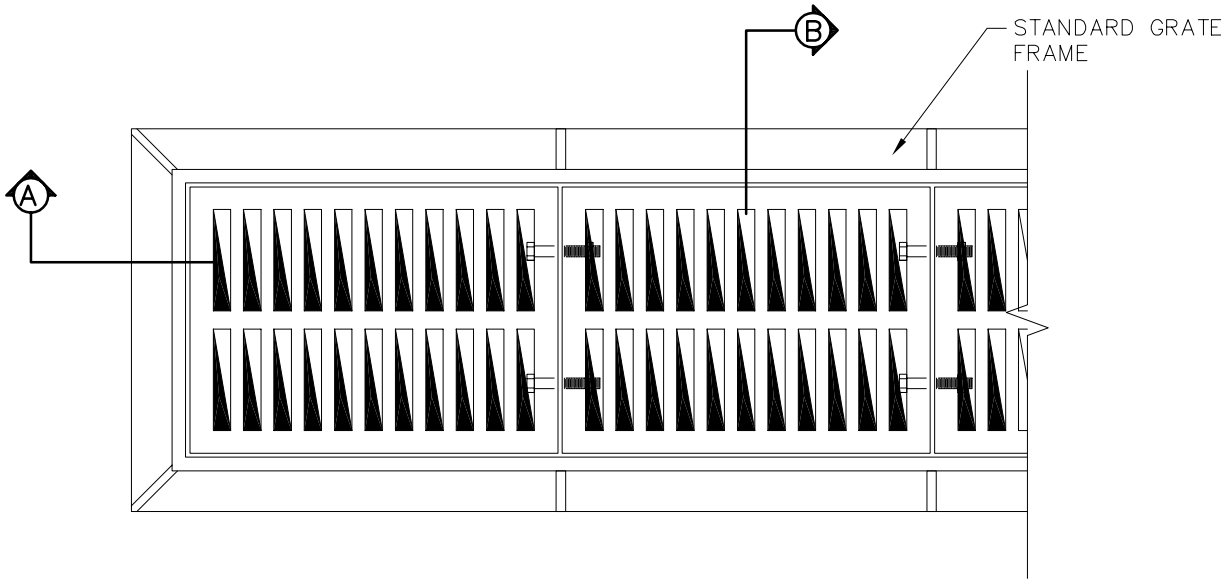
NTS



SECTION B

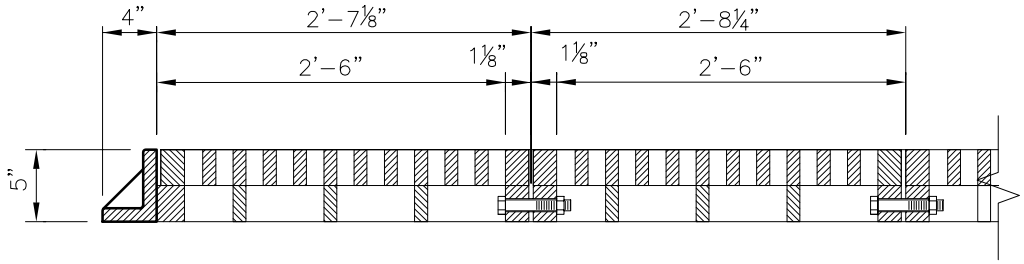
NTS

Addison! PUBLIC WORKS DEPARTMENT	SIX GRATE INLET	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–D33



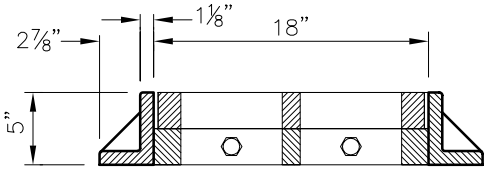
PLAN

NTS



SECTION A

NTS



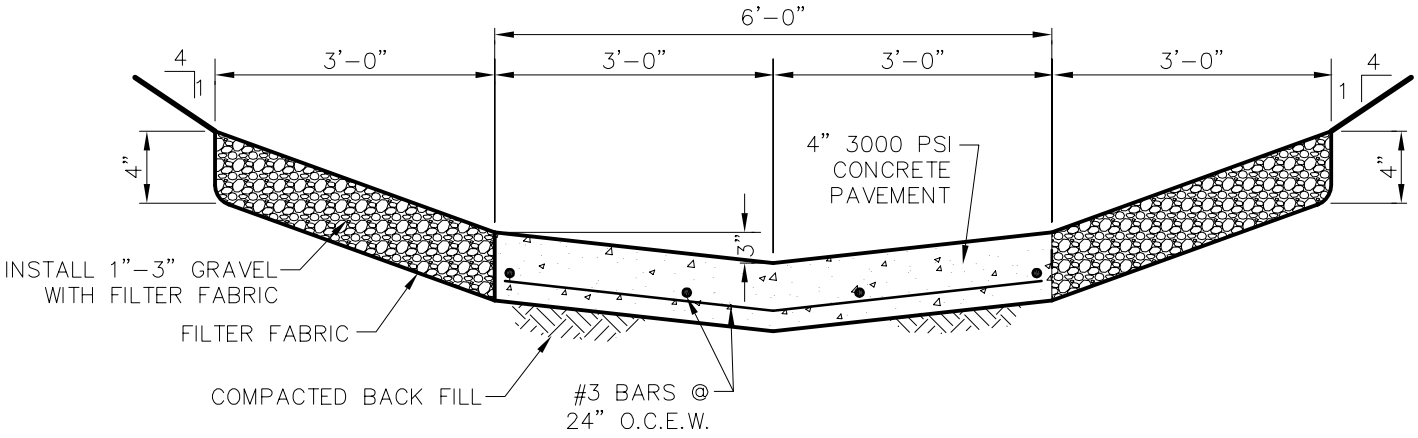
SECTION B

NTS

NOTES:

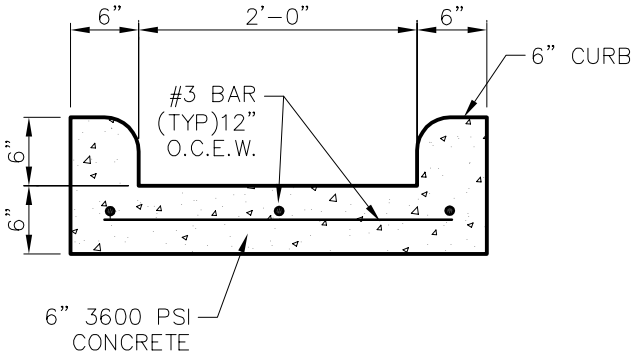
1. GRATE AND FRAME SHALL BE PATTERN No. 814 AS MANUFACTURED BY BASS AND HAYES FOUNDRY OR APPROVED EQUAL.
2. ALL CAST IRON FITTINGS SHALL BE DOMESTIC.
3. ALL FASTENERS SHALL BE GALVANIZED.

Addison! PUBLIC WORKS DEPARTMENT	GRATE DETAIL	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–D34



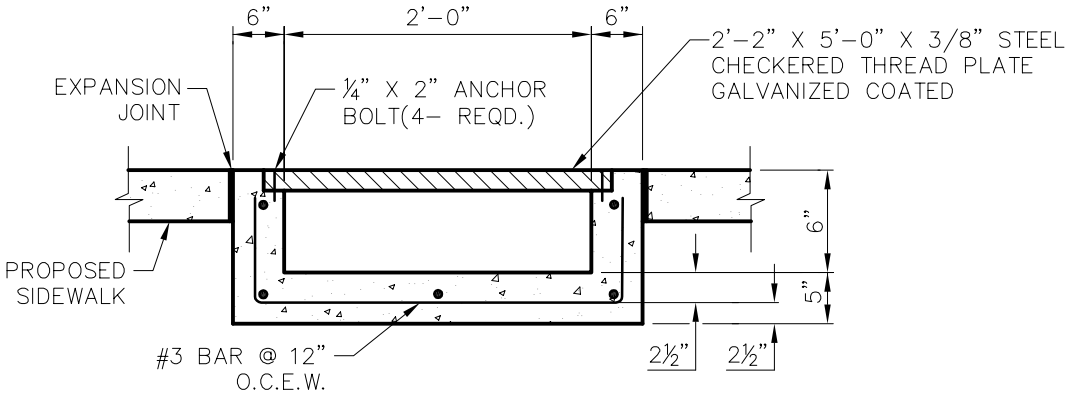
CONC. FLUME (CURBS REQUIRED AT CULVERT OUTFALL)* DETENTION POND

NTS



CONC. FLUME IN THE BACK OF LOTS*

NTS

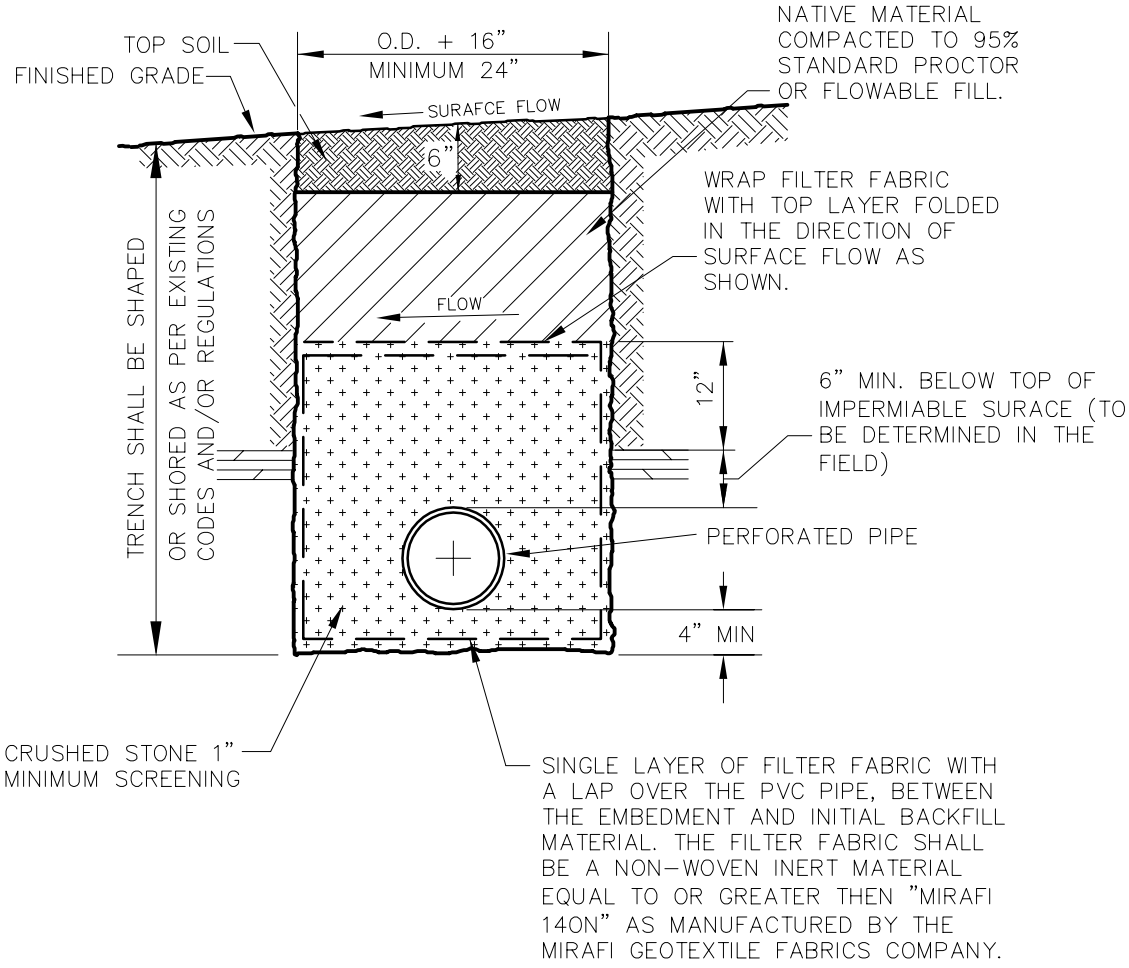


CONC. FLUME WITH PLATE COVER*

NTS

*FOR ALL FLUMES THE MINIMUM SLOPE WILL BE 0.75%

Addison! PUBLIC WORKS DEPARTMENT	STORM RELATED FLUMES	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD-D35



GENERAL NOTES:

1. THE SUBSURFACE DRAINAGE SYSTEM SHALL BE CONSTRUCTED WITH A MINIMUM SIZE OF SIX (6) INCH DIAMETER TYPE PS-46 PVC PIPE OR APPROVED EQUAL. THE PIPE SHALL MEET ALL CURRENT ASTM F758 REQUIREMENTS, AND SHALL HAVE GASKET TYPE JOINTS. THE PERFORATED AND CONDUCTING PIPES SHALL BE WHITE IN COLOR.

2. THE FINAL BACKFILL SHALL CONSIST OF AND BE PLACED IN ACCORDANCE WITH THE N.C.T.C.O.G. SPECIFICATIONS ITEM 6.2.9.

3. CLEANOUTS SHALL BE INSTALLED EVERY 200' AND AT THE END OF EACH PIPING SYSTEM.

Addison! PUBLIC WORKS DEPARTMENT	SUBSURFACE DRAINAGE DETAIL	STANDARD CONSTRUCTION DETAILS STORM DRAINAGE		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD-D36