

EAST JORDAN 7010 FRAME WITH M3 SINUSOIDAL GRATE IN FULL CURB SECTIONS EAST JORDAN WORKS 5080 FRAME W/M1 SINUSOIDAL GRATE IN DEPRESSED CURB SECTIONS

BITUMINOUS GASKETED JOINTS

24"

PRECAST CONCRETE ADJUSTING RINGS (IF NEEDED) - (NO MORE THAN 2) MAX. ALLOWABLE ADJUSTMENT UTILIZING RINGS IS 8". TOP 2" OF ADJUSTMENT RINGS MUST BE VULCANIZED RUBBER (MFG=EJ INFRA-RISER),

SEAL PIPE WITH NON-SHRINKING GROUT

INLET

STEPS AT 12" TO 16" CTS.

OUTLET

SEAL PIPE WITH NON-SHRINKING GROUT

C

4'-0"

D
CIRCULAR

6"

4" MIN. CA-6 BEDDING

ELEVATION

MATERIALS FOR WALLS	D	C*	T (MIN.)
PRECAST REINFORCED CONCRETE SECTION	4'-0" 5'-0" 6'-0"	2'-6" 3'-9" 5'-0"	4" 5" 6"

* DIMENSION "C" MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6".

NOTES:

1. USE ECCENTRIC CONES UNLESS OTHERWISE INDICATED ON THE DRAWING. FLAT TOP SLABS PERMITTED ONLY FOR MANHOLES TOO SHALLOW FOR CONES.
2. USE 4'-0" DIAMETER FOR SEWER SIZES THRU 21", 5'-0" DIAMETER FOR SEWER SIZES 24" THRU 30", 6'-0" DIAMETER FOR SEWER SIZES GREATER THAN 30", UNLESS OTHERWISE NOTED.
3. UNLESS OTHERWISE SPECIFIED, CONSTRUCTION AND MATERIALS SHALL CONFORM IDOT STANDARD SPECIAL ARTICLE 602.
4. REMOVE TOP TWO MANHOLE STEPS PRIOR TO FINAL INSPECTION.



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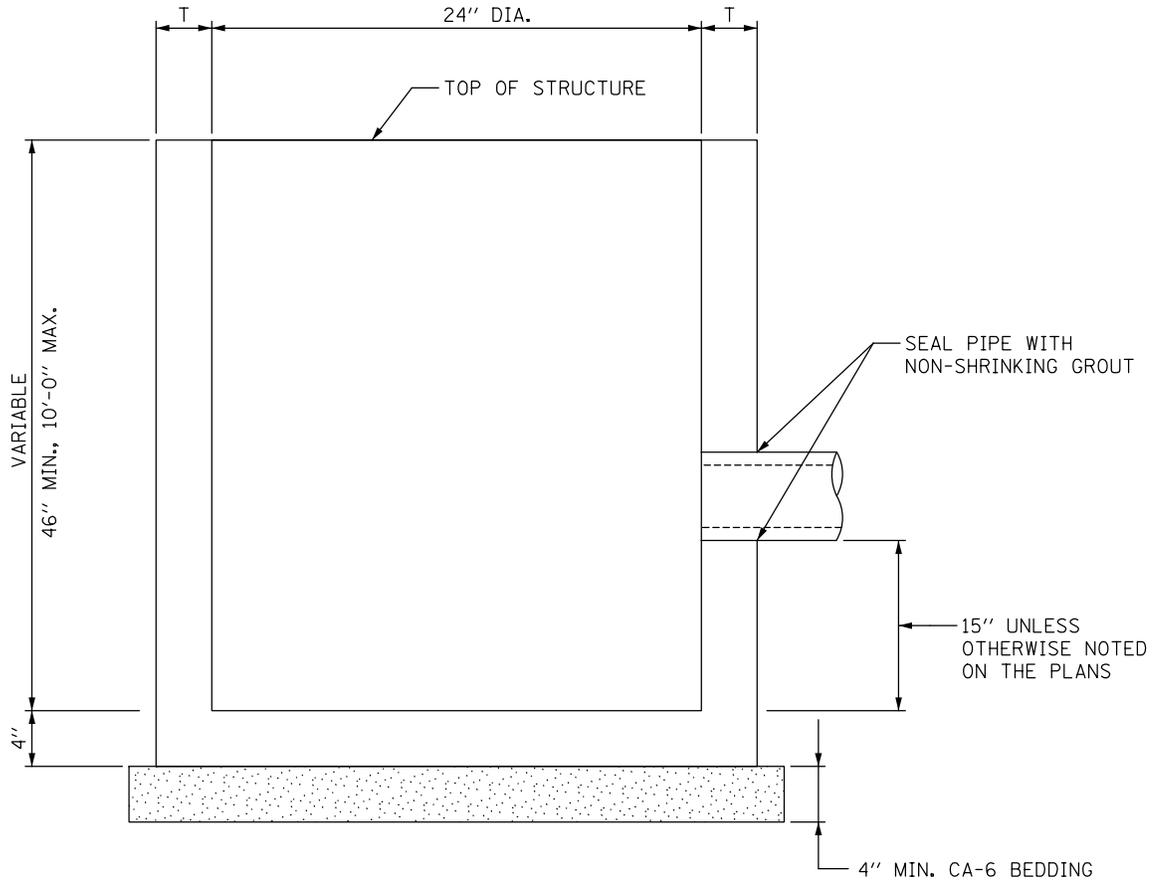
ENGINEERING DETAILS

CATCH BASIN TYPE A

DATE: 4/29/2018
REV 1:
REV 2:
REV 3:

DETAIL NO.

ST-2



ELEVATION

MATERIALS FOR WALLS	T (MIN.)
PRECAST REINFORCED CONCRETE SECTION	3"

NOTES:

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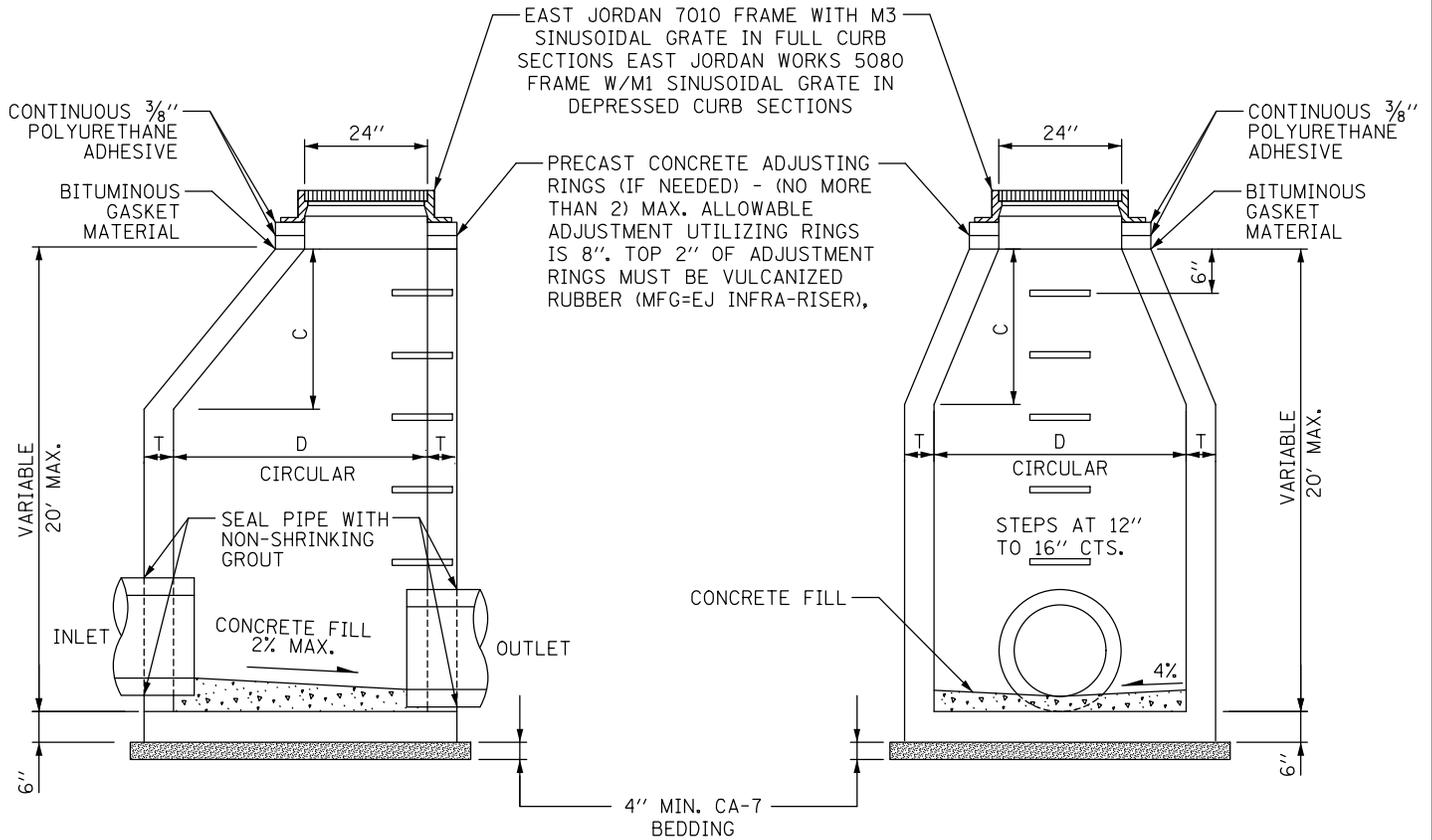
ENGINEERING DETAILS

CATCH BASIN TYPE C

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REV 2:	
REV 3:	

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ST-3



ELEVATION - ECCENTRIC

ELEVATION - CONCENTRIC

MATERIALS FOR WALLS	D	C*	T (MIN.)
PRECAST REINFORCED CONCRETE SECTION	4'-0"	2'-6"	4"
	5'-0"	3'-9"	5"
	6'-0"	5'-0"	6"

*DIMENSION "C" MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6".

NOTES:

1. USE ECCENTRIC CONES UNLESS OTHERWISE INDICATED ON THE DRAWING. FLAT TOP SLABS PERMITTED ONLY FOR MANHOLES TOO SHALLOW FOR CONES.
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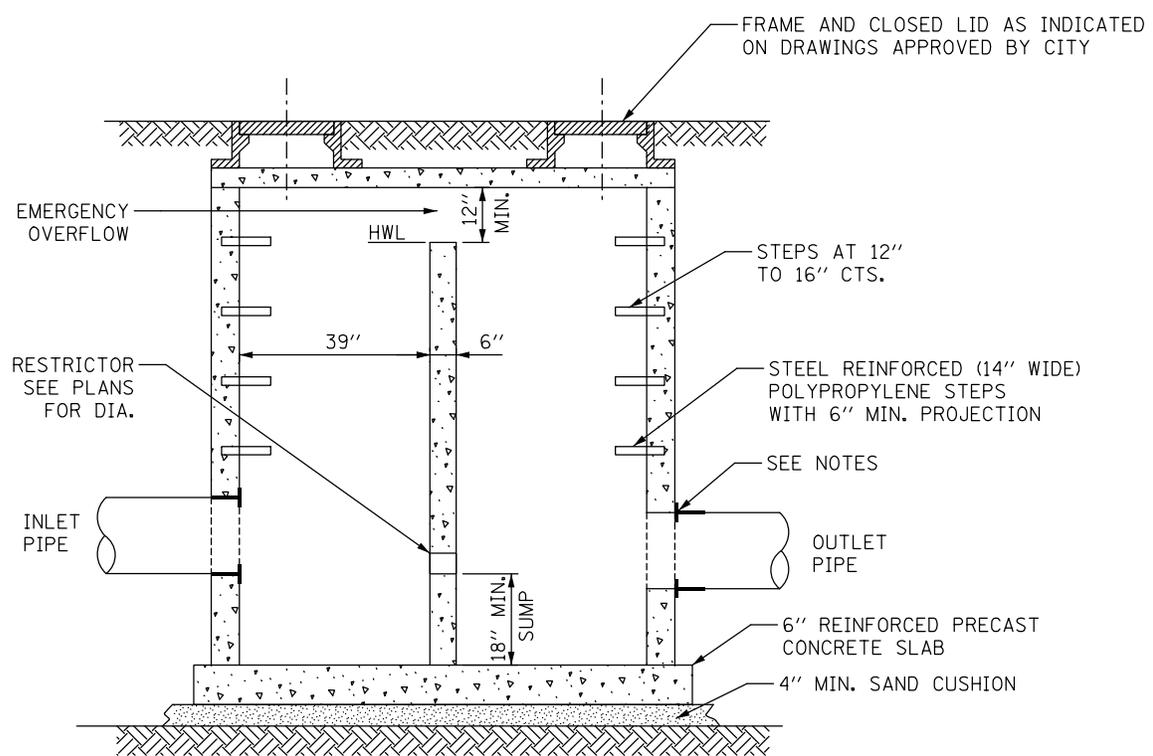
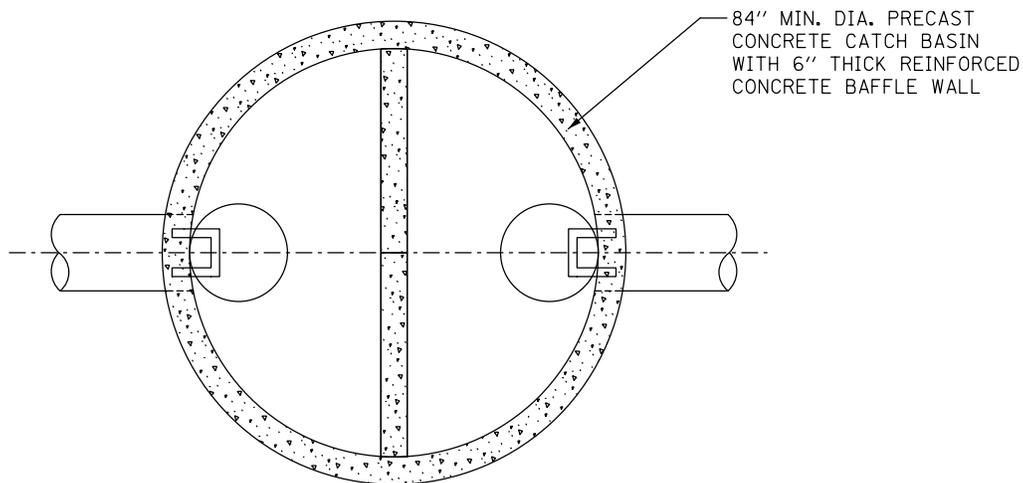
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ENGINEERING DETAILS

STORM MANHOLE TYPE A

DATE:	4/29/2018
REV 1:	
REV 2:	
REV 3:	

DETAIL NO.
ST-4



NOTES:

1. MINIMUM RESTRICTOR SIZE IS 4".
2. UNLESS OTHERWISE SPECIFIED, CONSTRUCTION AND MATERIALS SHALL CONFORM TO IDOT STANDARD SPECIAL ARTICLE 602.
3. PRECAST STRUCTURE SECTIONS TO BE TONGUE AND GROOVED.
4. NON-PRECAST OPENINGS SHALL BE CORED AND RUBBER BOOTED WITH WATERTIGHT FLEXIBLE RUBBER CONNECTOR (SEE DETAIL SAN-9).
5. MORTAR ALL PIPE PENETRATIONS INSIDE AND OUTSIDE OF STRUCTURE.
6. IN "SUBMERGED" CONDITIONS, ALL PIPE PENETRATIONS TO BE CORED, RUBBER BOOTED, AND INTERIOR MORTARED.



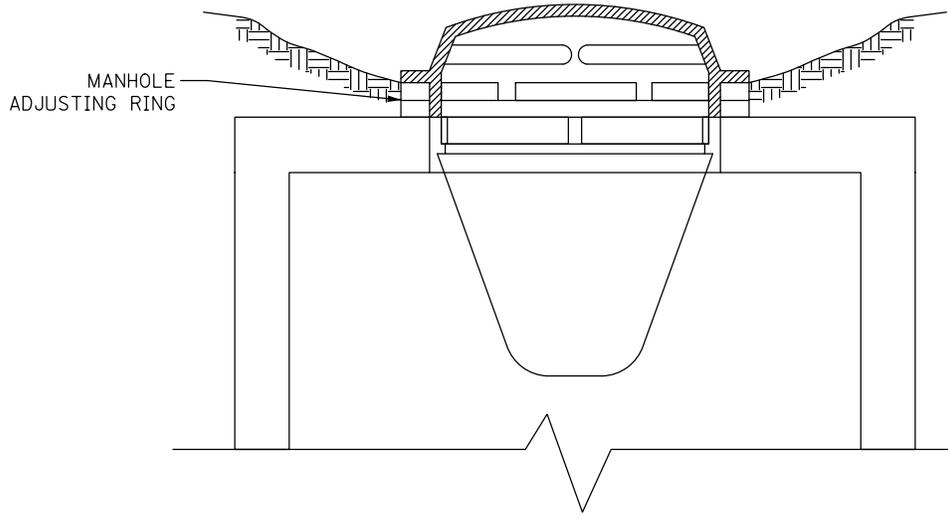
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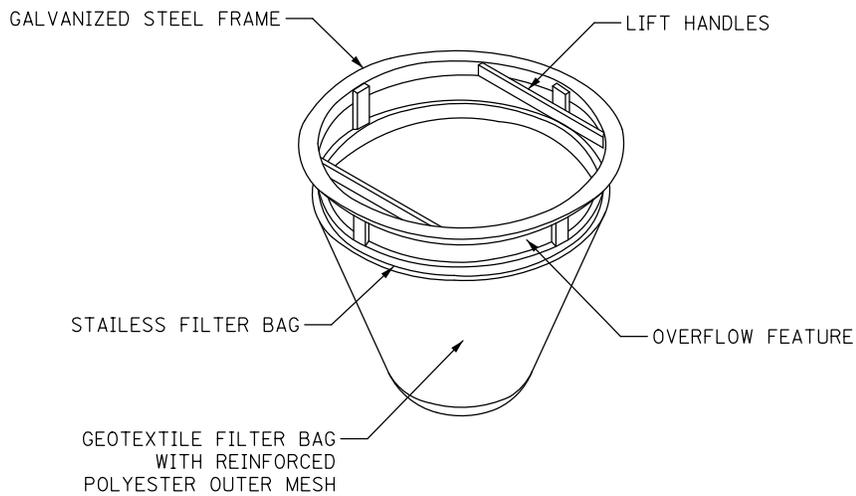
STORM WATER RESTRICTOR STRUCTURE

DATE:	4/29/2018
REV 1:	
REV 2:	
REV 3:	

DETAIL NO.
ST-5



SECTION THROUGH MANHOLE



FILTER INSERT

RECTANGULAR BASKETS REQUIRED FOR CURB INLETS



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ENGINEERING DETAILS

**TEMPORARY SILTATION BASKET
 INSTALLATION BETWEEN
 INLET FRAME AND GRATE**

DATE:	4/29/2018
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REV 3:	

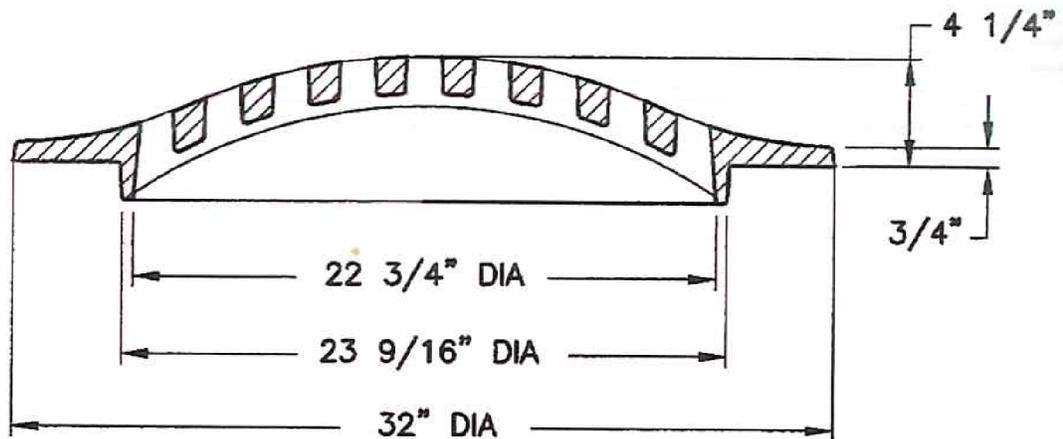
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ST-6

TYPICAL REAR YARD/SWALE INLET: EAST JORDAN 6517 BEEHIVE GRATE

6517 DITCH GRATE

Heavy duty
Approximate 190 sq. in. open area



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TYPICAL REAR YARD INLETS

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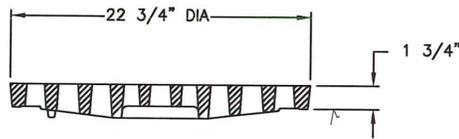
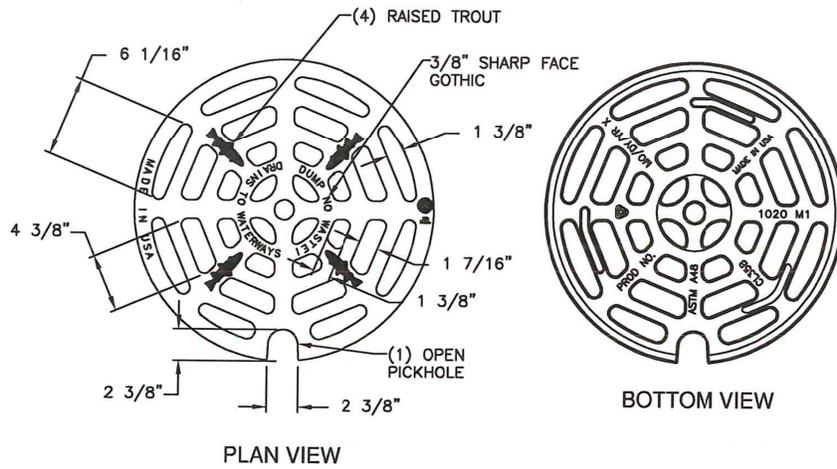
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ST-7A

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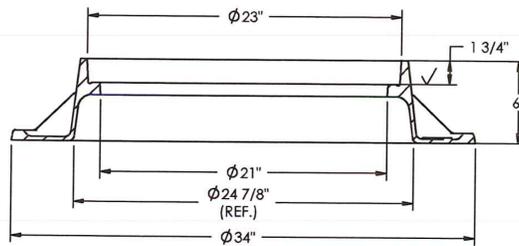
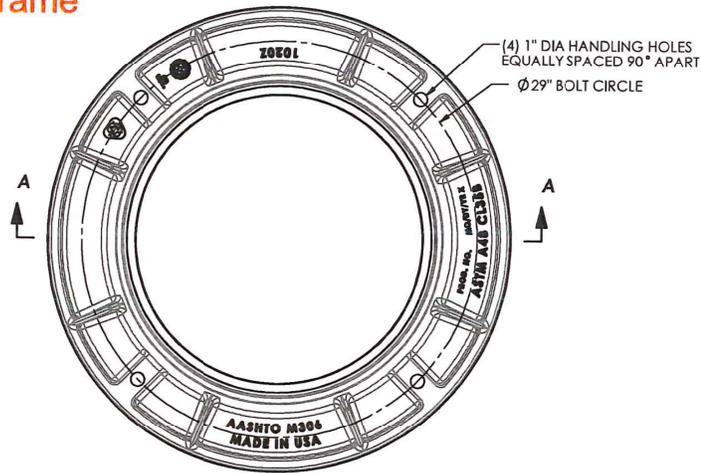
ALTERNATE REAR YARD INLET: EAST JORDAN 1020 OR 1022 MT TYPE GRATE
"DUMP WASTE"

1020M1 Grate



GRATE SECTION

1020Z Frame



SECTION A-A



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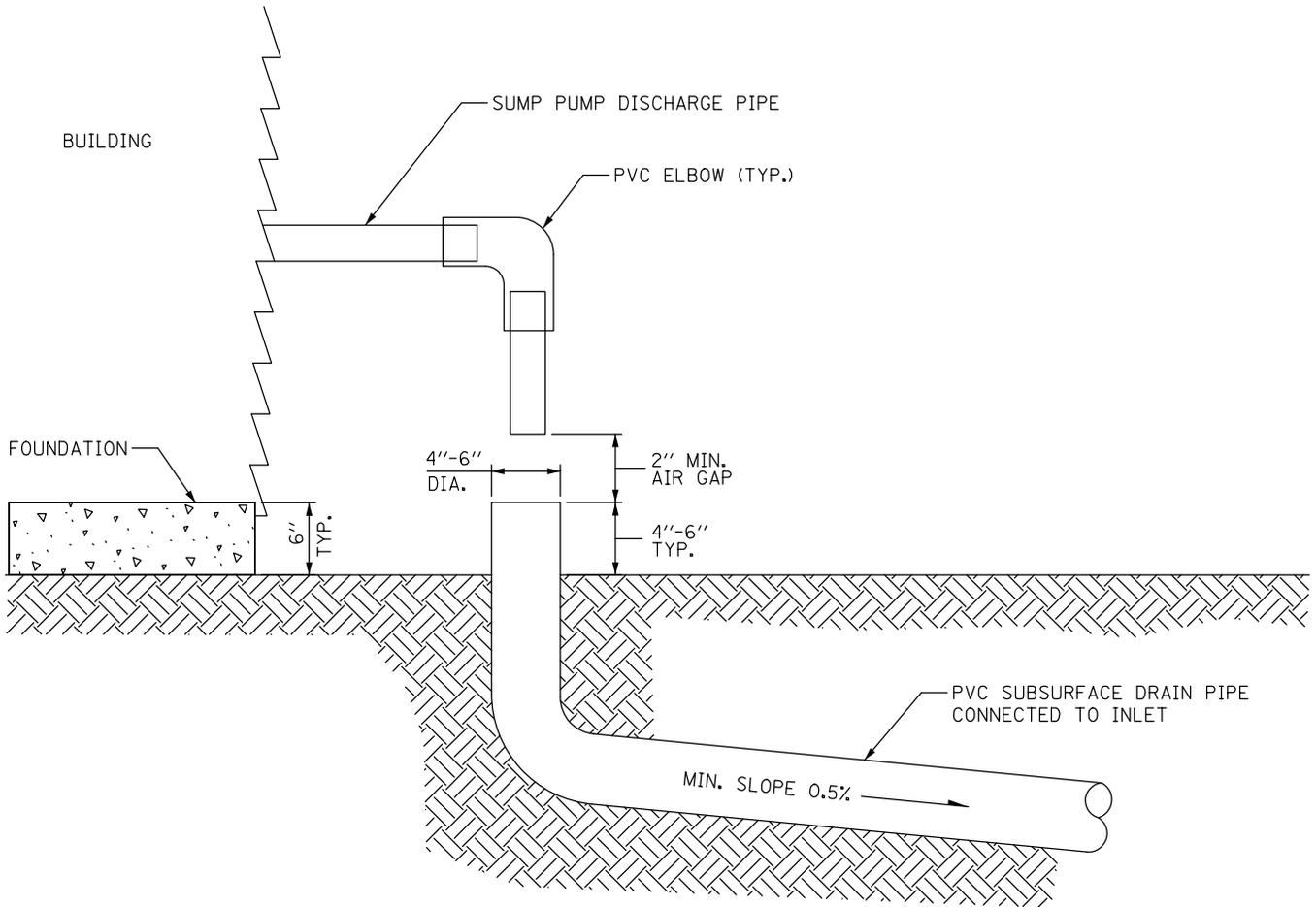
ENGINEERING DETAILS

TYPICAL REAR YARD INLETS

DATE:	4/29/2018
REV 1:	
REV 2:	
REV 3:	

DETAIL NO.

ST-7B



NOTES:

1. SUMP PUMP CONNECTIONS TO OUTLET AT GRADE OR FOR RESIDENTIAL DEVELOPMENTS WITH AN ON-SITE STORMWATER CONTROL FACILITY, THE SUMP PUMP MAY BE CONNECTED INTO THE STORM SEWER SYSTEM LOCATED OUTSIDE THE PUBLIC RIGHT-OF-WAY, AT A STRUCTURE.
2. SUMP PUMP DISCHARGE SHALL BE DIRECTED AWAY FROM ADJACENT PROPERTIES, AND OUTLET SHALL BE LOCATED A MINIMUM OF 10 FEET FROM PROPERTY LINES. INSTALLATION OF "POP-UPS" ARE NOT RECOMMENDED. THE CITY SHALL ASSUME NO RESPONSIBILITY FOR ANY ISSUES RESULTING FROM THEIR INSTALLATION.
3. INSTALLER/OWNER ASSUMES FULL RESPONSIBILITY AND LIABILITY FOR ANY AND ALL DAMAGE TO UTILITIES OR ADJOINING PROPERTIES.
4. INSTALLATION OF SUMP PUMP DISCHARGE LINES MUST BE INSPECTED BY THE CITY PUBLIC WORKS DEPARTMENT.



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ENGINEERING DETAILS

SUMP PUMP CONNECTION

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DETAIL NO.
ST-8

FINISHED GRADE



1 SELECT TRENCH BACKFILL

GRANULAR TRENCH BACKFILL TO BE USED UNDER EXISTING OR PROPOSED PAVEMENT, CURB AND GUTTER, SIDEWALK OR WITHIN 2' OF ANY EXISTING OR PROPOSED CURB AND GUTTER OR SIDEWALK, SHALL BE MECHANICALLY COMPACTED CA-6, GRADE #9

MECHANICALLY COMPACTED BACKFILL OF EXCAVATED MATERIALS IN OTHER LOCATIONS IF APPROVED BY THE ENGINEER. REFER TO TRENCH BACKFILL SPECIAL PROVISIONS FOR MATERIALS AND COMPACT REQUIREMENTS.

2 PIPE BEDDING & INITIAL TRENCH BACKFILL

*6 WASHED STONE FROM 6" BELOW TO SPRING LINE OF PIPE.

3 UNSUITABLE MATERIALS

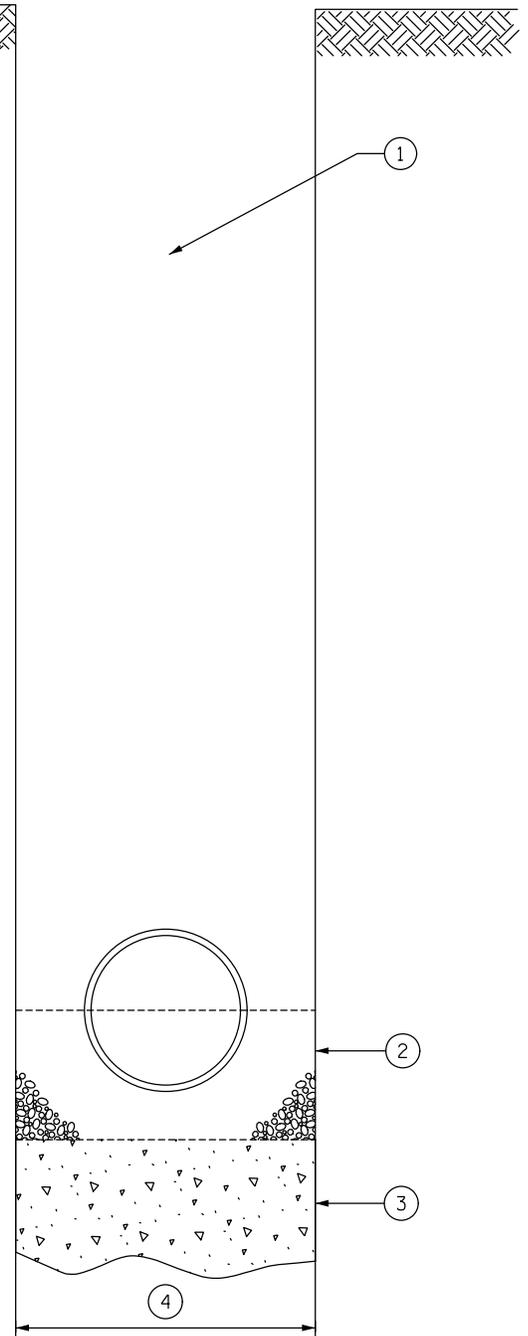
IF ENCOUNTERED - SHALL BE REMOVED WHERE DIRECTED BY THE ENGINEER AND REPLACED WITH SUITABLE GRANULAR BACKFILL AND COMPACTED.

4 TRENCH WIDTH

MINIMUM = PIPE O.D. + 18" WHEN DEPTH IS < 5'
MAXIMUM = PIPE O.D. + 36" WHEN DEPTH IS ≥ 5'
DEPTH = PROPOSED SUBGRADE TO PROPOSED INVERT

NOTES:

1. ALL CA-6 MATERIAL TO BE IDOT APPROVED.



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ENGINEERING DETAILS

**TYPICAL STORM SEWER
TRENCH CROSS SECTION**

DATE:	4/29/2018
REV 1:	
REV 2:	
REV 3:	

DETAIL NO.

ST-9