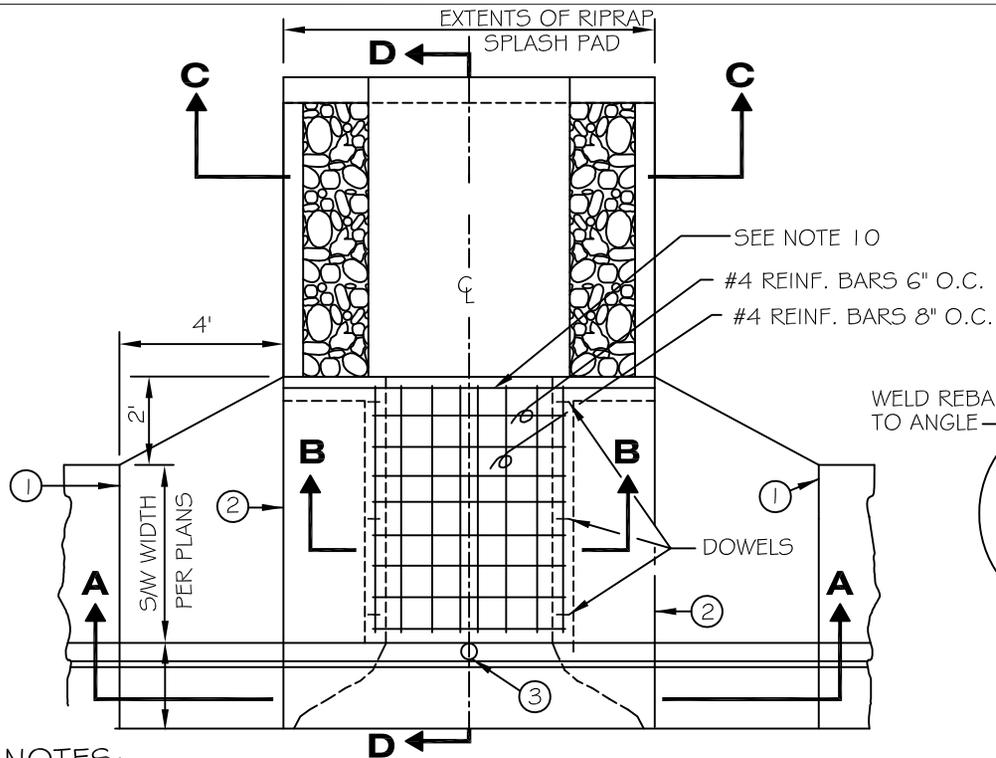


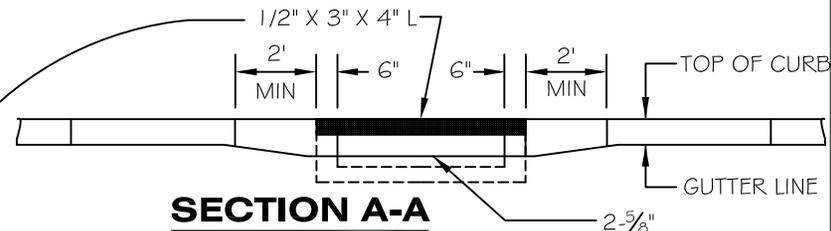
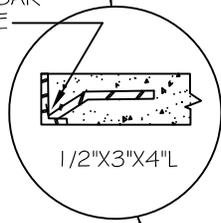
STORM SEWER & DRAINAGE
C-500 TO C-509



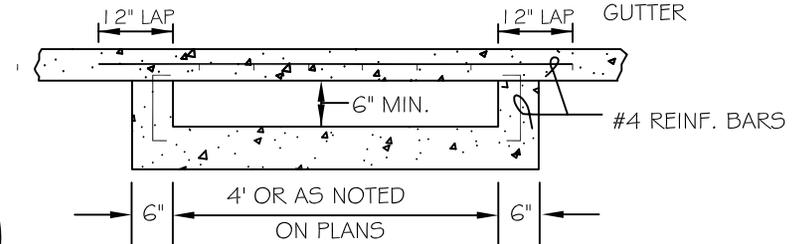
NOTES:

1. FULL DEPTH EXPANSION JOINT EXTENDED THROUGH CURB AND GUTTER (TYP.). EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS PRE FORMED EXPANSION JOINT FILLER ASTM D-1751. (FULL DEPTH).
2. CONTRACTION JOINT.
3. STORM DRAIN INLET MARKER PER C-508.
4. FOR OPENINGS GREATER THAN 4 FT., SEPARATE CHAMBERS WILL BE CONSTRUCTED IN 4 FT. INCREMENTS WITH A CONTRACTION JOINT OVER EACH INTERIOR SUPPORT.
5. STEEL MAT TO BE SUPPORTED ON CHAIRS PRIOR TO CONCRETE PLACEMENT. MINIMUM CONCRETE COVER TO BE 1 1/2" OVER REINFORCING BAR.
6. EXPOSED ANGLE IRON TO BE PAINTED WITH ONE SHOP COAT OF NO. 1-D PAINT AND TWO FIELD COATS OF NO. 10 PAINT AS PER MAG SECT. 790.
7. 6" - 12" COBBLE TO BE USED FOR SPLASH PAD.
8. TOP SHALL BE MONOLITHIC INCLUDING 4' WINGS.
9. CONCRETE SHALL BE CLASS 'A' PER MAG SECTION 725
10. A SAFETY RAIL PER MAG STD. DTL. 145 IS REQUIRED WHEN DROP EXCEEDS 30".

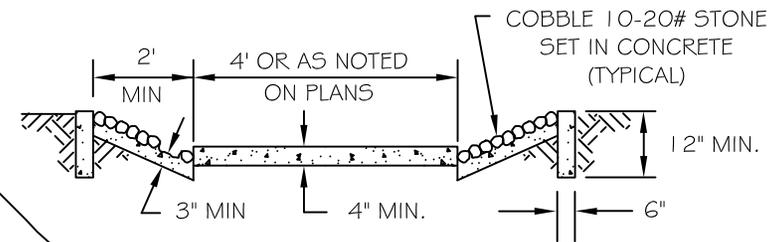
WELD REBAR TO ANGLE



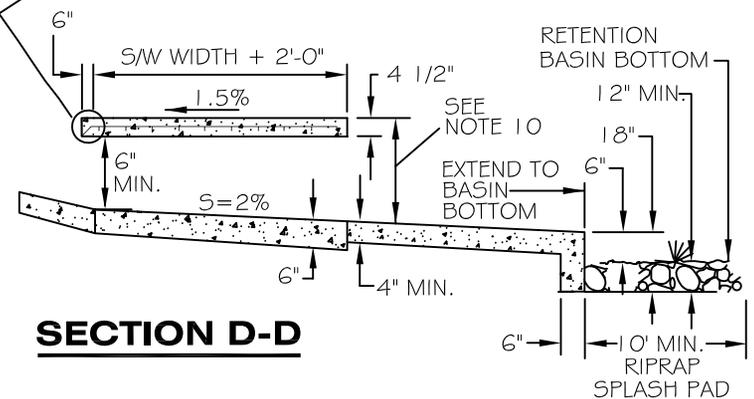
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

DETAIL NO.

C-500

NTS



CITY OF
CHANDLER
STANDARD
DETAIL

SCUPPER

APPROVED:

CITY ENGINEER

DATE: 01-09-2020

DETAIL NO.

C-500

NTS

8x8x6" MAG CLASS B CONCRETE PAD REQUIRED IN DG-LANDSCAPED AREAS. SEVEN #3 BARS 12" C TO C EACH WAY. SLOPE DOWN FROM GRATE TO DG SURFACE 1/2".

- 1. MODIFIED FLAT-BOTTOM MANHOLE CONE. MORTAR TO C.I. RING
- 2. MIN. 30" DIA. BOLTED C.I. RING AND GRATE.
- 3. MIN. 30" DIA. BOLTED C.I. RING AND COVER WITH THE RAISED LETTERS 'STORMWATER ONLY'.

- 4. GRADED PARKWAY, OR A.C. PAVING.
- 5. COMPACTED ABC IN PAVED AREAS.
- 6. DEBRIS SHIELD: ROLLED 16 GA. x 24" LENGTH W/ VENTED ANTI-SIPHON AND INTERNAL 0.265" MAX. SWO FLATTENED EXPANDED STEEL SCREEN x 12" LENGTH, FUSION-BONDED EPOXY.
- 7. PRECAST CONCRETE LINER, 4000 PSI 48" ID, 54" OD.

- 8. MIN. 6' DIA. DRILLED SHAFT.
- 9. SUPPORT BRACKET (TYP), FORMED 12 GA. STEEL FUSION BONDED EPOXY COATED

- 10. 6" DIA. SCHEDULE 40 PVC OVERFLOW PIPE.

- 11. 6" DIA. CORRUGATED HDPE PER MAG SECT. 738 INJECTION PIPE. NO PERFORATIONS BELOW SETTLING CHAMBER.

- 12. NONWOVEN GEOTEXTILE FABRIC MIRIFI 140NL OR APPROVED EQUAL PLACED AFTER OVERFLOW PIPE HAS BEEN INSTALLED. RETAIN WITH A FEW SPRINKLES OF ROCK AROUND PERIMETER.

- 13. 3/8" TO 1-1/2" WASHED ROCK.

- 14. DRAINAGE SCREEN: SCH. 40 PVC 0.12" SLOTTED WELL SCREEN 32 SLOTS PER ROW/FT.

- 15. MIN. 4' DRILLED SHAFT.

- 16. FABRIC SEAL, UV RESISTANT GEOTEXTILE. COVER GRATE UNTIL UNTIL PAVING AND/OR LANDSCAPING IS COMPLETE.

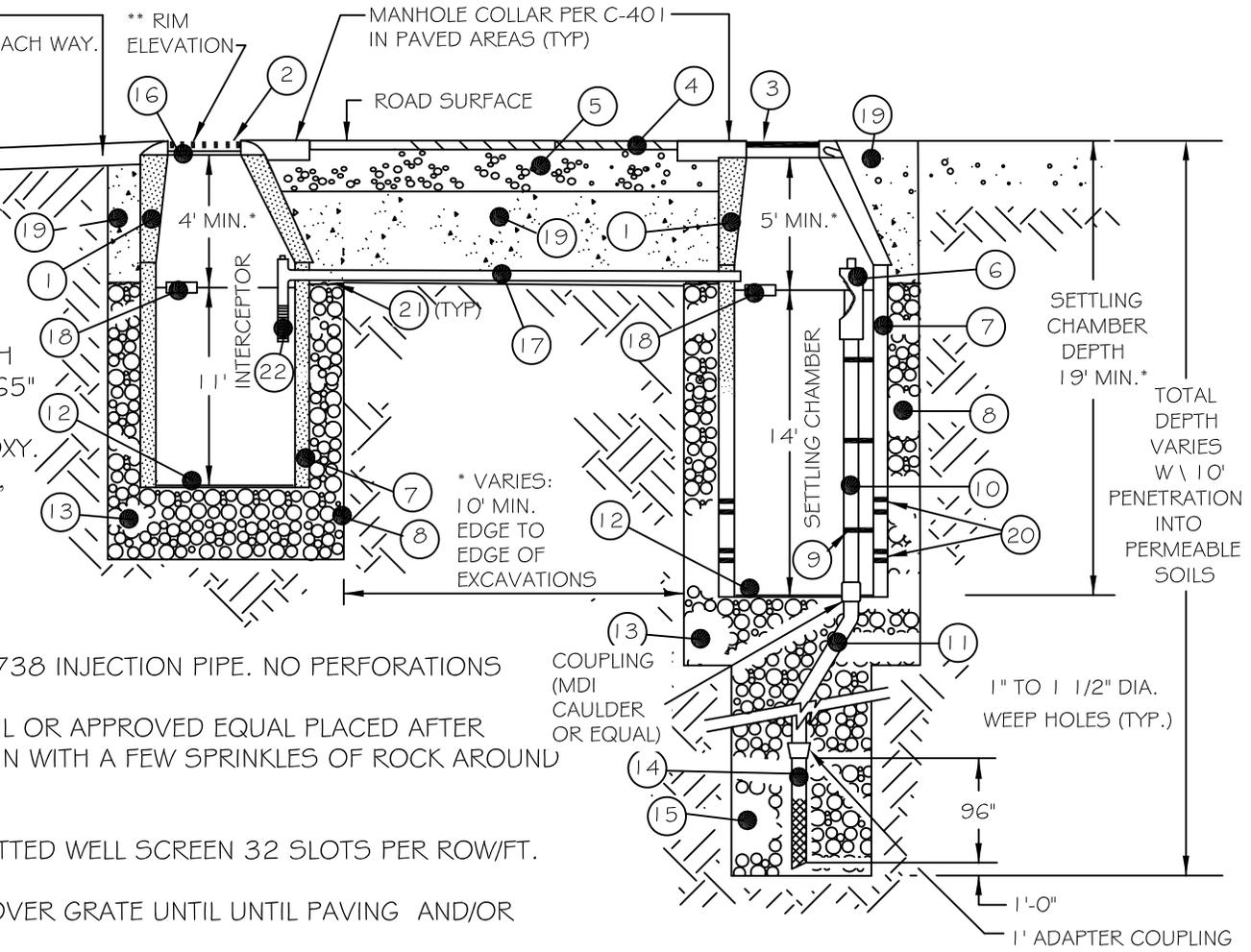
- 17. 4" DIA. SCH. 40 PVC CONNECTOR PIPE W/ VENTED ANTI-SIPHON INTAKE & FLOW REGULATOR.

- 18. MIN. 4 QUART CAPACITY ABSORBENT.

- 19. 1 SACK ABC SLURRY EXCEPT IN LANDSCAPED INSTALLATIONS WITH NO PIPE CONNECTIONS.
- 20. 8 PERFORATIONS PER LINEAR FOOT FOR BOTTOM 3 FEET OF INJECTION CHAMBER.

- 21. 6 MIL PLASTIC LINER WATER STOP.

- 22. INTAKE SCREEN, SCH 40 PVC 0.12" MODIFIED SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. 48" OVERALL LENGTH WITH TRI-C END CAP.



* NOTE - OVERFLOW DEPTHS AND INVERT OF CONNECTOR PIPE MUST BE BELOW THE INVERTS OF ALL UPSTREAM STORM DRAIN PIPE.

** NOTE - RIM ELEVATION SHALL BE FLUSH TO ROAD SURFACE OR TURF. RIM ELEVATION SHALL BE 1/2" ABOVE DECOMPOSED GRANITE (DG) LANDSCAPED AREAS.

BASED UPON 'MAXWELL PLUS' BY TORRENT RESOURCES

DETAIL NO.

C-501

NTS



CITY OF
CHANDLER
STANDARD
DETAIL

**DRYWELL SYSTEM DETAIL
AND SPECIFICATIONS**

APPROVED:

[Signature]

CITY ENGINEER

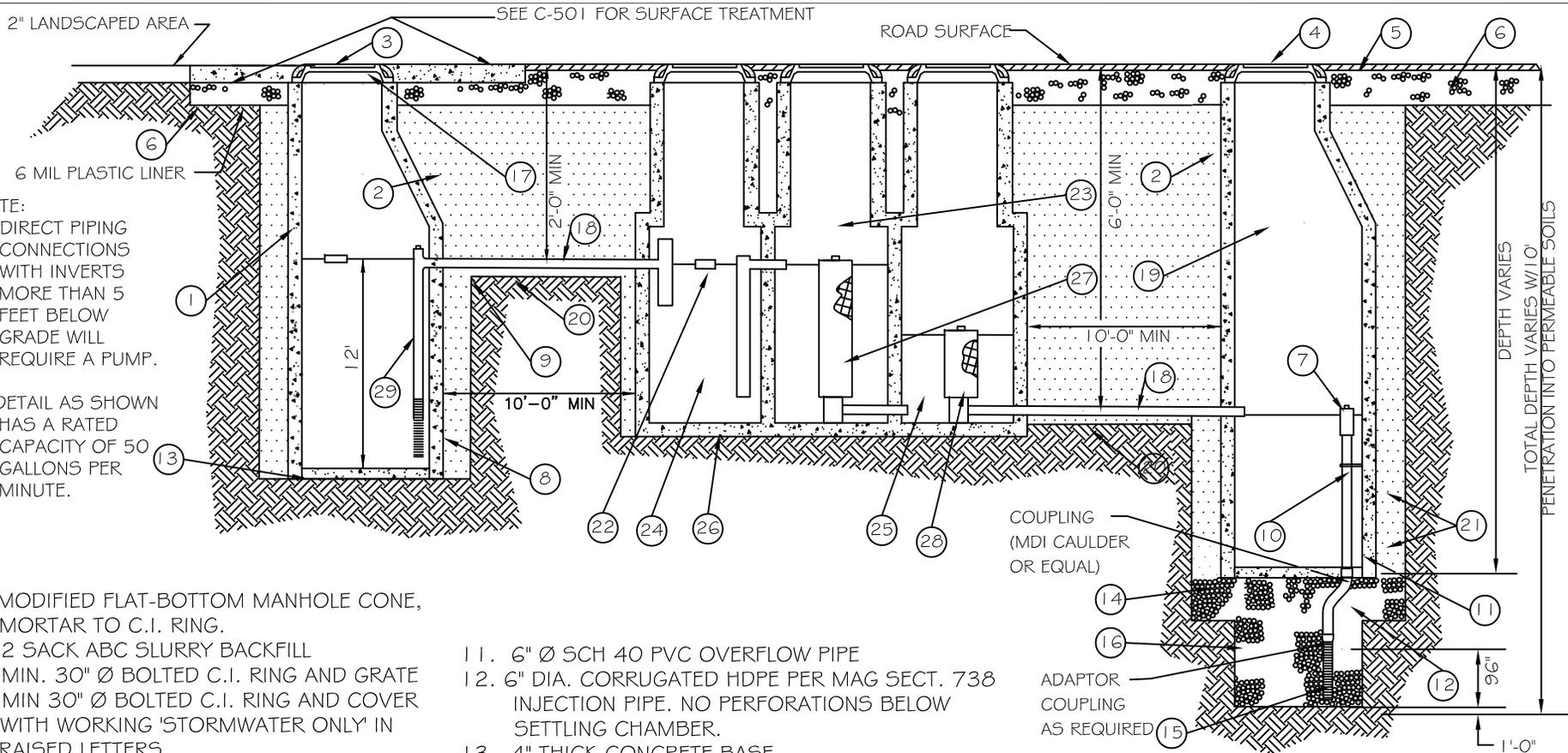
DATE:

05-10-2018

DETAIL NO.

C-501

NTS



NOTE:
DIRECT PIPING CONNECTIONS WITH INVERTS MORE THAN 5 FEET BELOW GRADE WILL REQUIRE A PUMP.

DETAIL AS SHOWN HAS A RATED CAPACITY OF 50 GALLONS PER MINUTE.

- 1. MODIFIED FLAT-BOTTOM MANHOLE CONE, MORTAR TO C.I. RING.
- 2. 2 SACK ABC SLURRY BACKFILL
- 3. MIN. 30" Ø BOLTED C.I. RING AND GRATE
- 4. MIN 30" Ø BOLTED C.I. RING AND COVER WITH WORKING 'STORMWATER ONLY' IN RAISED LETTERS
- 5. GRADED BASIN OR PAVING
- 6. COMPACTED ABC IN PAVED AREAS
- 7. DEBRIS SHIELD: ROLLED 16 GA. x 24" LENGTH W/ VENTED ANTI-SIPHON AND INTERNAL 0.265" MAX. SWO FLATTENED EXPANDED STEEL SCREEN x 12" LENGTH, FUSION-BONDED EPOXY.
- 8. PRECAST CONCRETE LINER, 4000 PSI 48" ID. 54" OD
- 9. MIN 6" DRILLED SHAFT
- 10. SUPPORT BRACKET, FORMED 12 GA. STEEL. FUSION BONDED EPOXY COATED STEEL.

- 11. 6" Ø SCH 40 PVC OVERFLOW PIPE
- 12. 6" DIA. CORRUGATED HDPE PER MAG SECT. 738 INJECTION PIPE. NO PERFORATIONS BELOW SETTLING CHAMBER.
- 13. 4" THICK CONCRETE BASE
- 14. 3/8" TO 1 1/2" WASHED ROCK
- 15. DRAINAGE SCREEN: SCH. 40 PVC 0.12" SLOTTED WELL SCREEN 32 SLOTS PER ROW/FT.
- 16. MIN 4" Ø DRILLED SHAFT
- 17. FABRIC SEAL, UV RESISTANT GEOTEXTILE. COVER GRATE UNTIL PAVING AND/OR LANDSCAPING IS COMPLETE.
- 18. 4" Ø SCH. 40 PVC CONNECTOR PIPE
- 19. (NOT USED)
- 20. SLURRY BACKFILL
- 21. (NOT USED)
- 22. ABSORBENT - HYDROPHOBIC IMBIBER PILLOW, MIN. 128 OZ. CAPACITY

- 23. FILTRATION CHAMBER - MIN 833 GAL. CAPACITY
- 24. PRIMARY SEPARATOR CHAMBER - MIN 833 GAL. CAPACITY
- 25. IMBIBITION CHAMBER - MIN 833 GAL. CAPACITY
- 26. TREATMENT INTERCEPTOR - MIN 2500 GAL TOTAL CAPACITY
- 27. SILT FILTER (2 EACH) - MIN 3600 S.I. POLYPROPYLENE FABRIC MESH
- 28. FASTFLO ASSEMBLY (2 EACH) - HYDROPHOBIC IMBIBER BEAD DRAIN FIELD
- 29. OVERFLOW PIPE - 4" Ø SCH 40 PVC WITH ANTI-SIPHON VENT, FLOW REGULATOR AND SCREEN.
BASED UPON 'ENVIBRO 20' BY TORRENT RESOURCES

DETAIL NO.
C-502
NTS

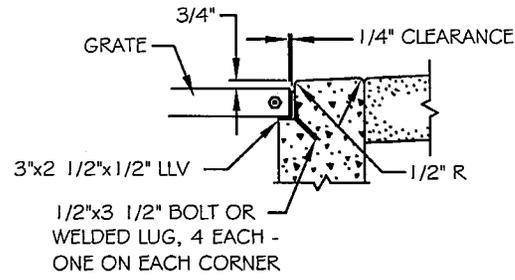
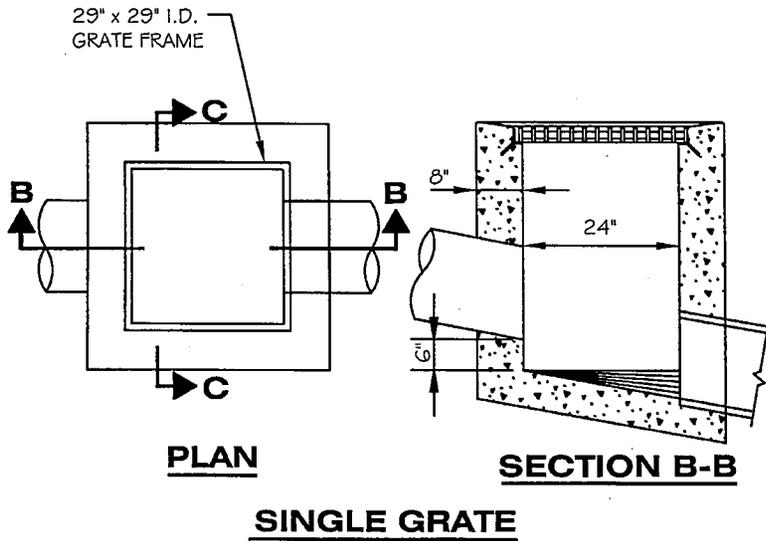


CITY OF
CHANDLER
STANDARD
DETAIL

PRETREATMENT DRYWELL SYSTEM

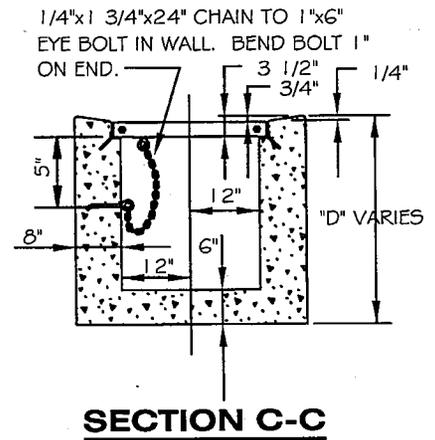
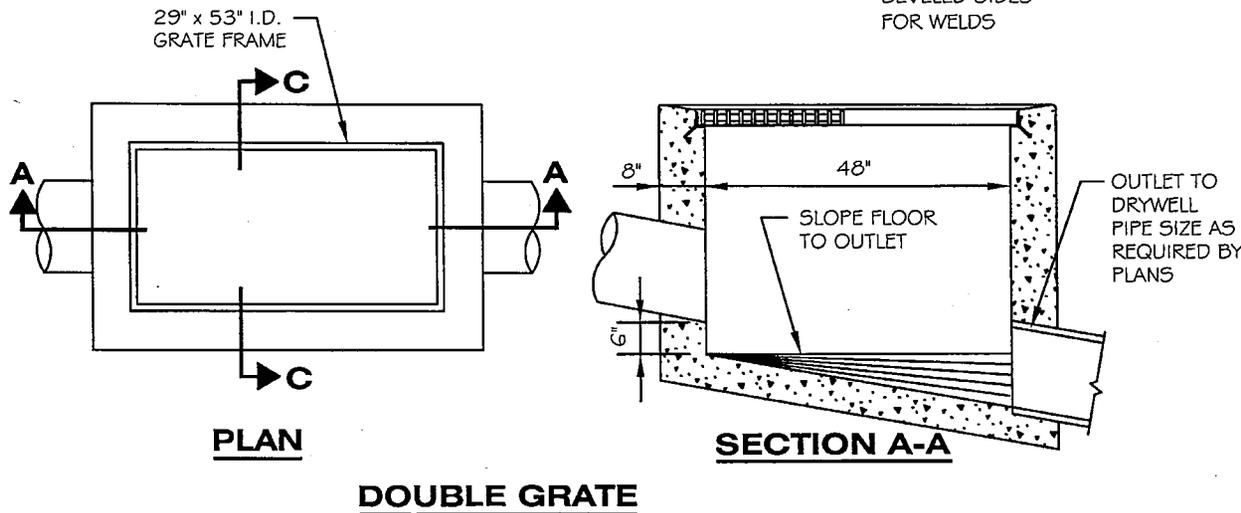
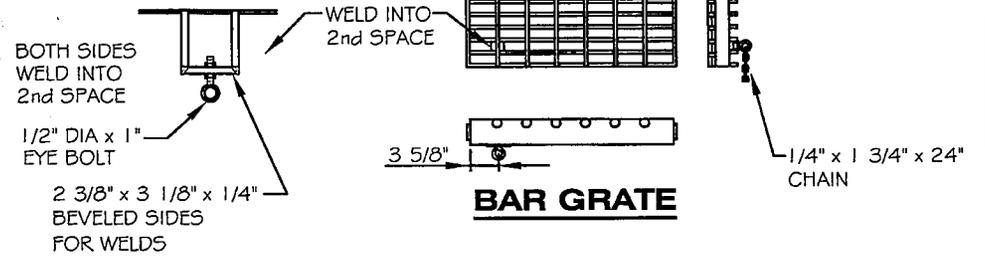
APPROVED: 
CITY ENGINEER
DATE: 05-10-2018

DETAIL NO.
C-502
NTS

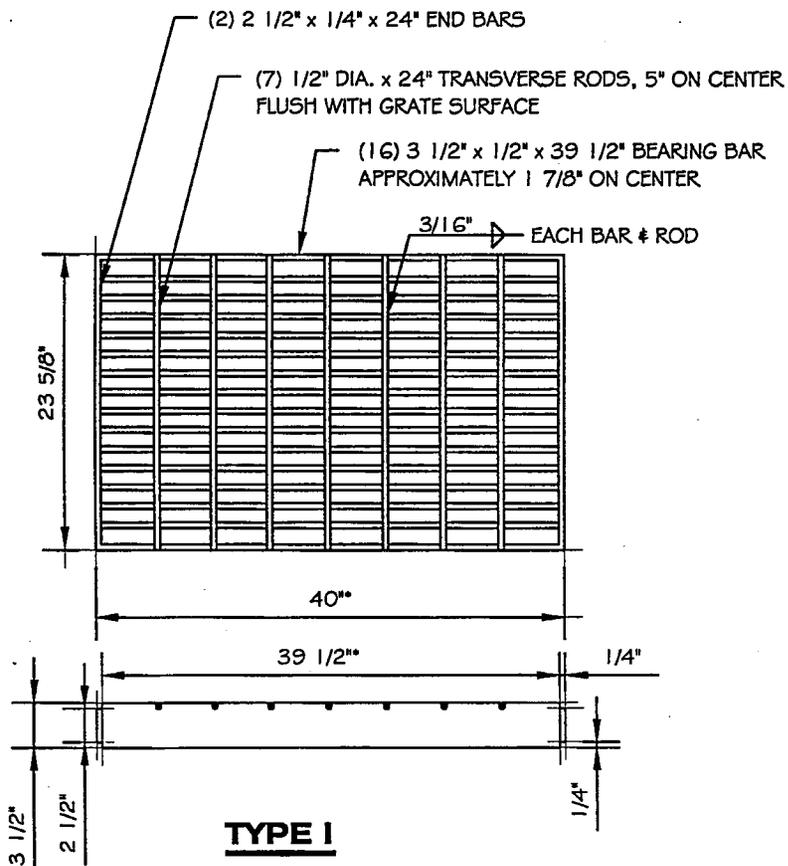


DETAIL OF ANGLE FRAME GRATE SUPPORT

ALL CONCRETE SHALL BE CLASS 'A' PER MAG SECT. 725. EXPOSED EDGES SHALL BE FINISHED WITH A 1/2" RADIUS. REINFORCE WITH #4 AT 8" EACH WAY, CENTERED.



DETAIL NO. C-504 NTS	 CITY OF CHANDLER STANDARD DETAIL	RETENTION BASIN INLET	APPROVED: <i>Elizabeth Williams</i> CITY ENGINEER DATE: <i>January 11, 2002</i>	DETAIL NO. C-504 NTS
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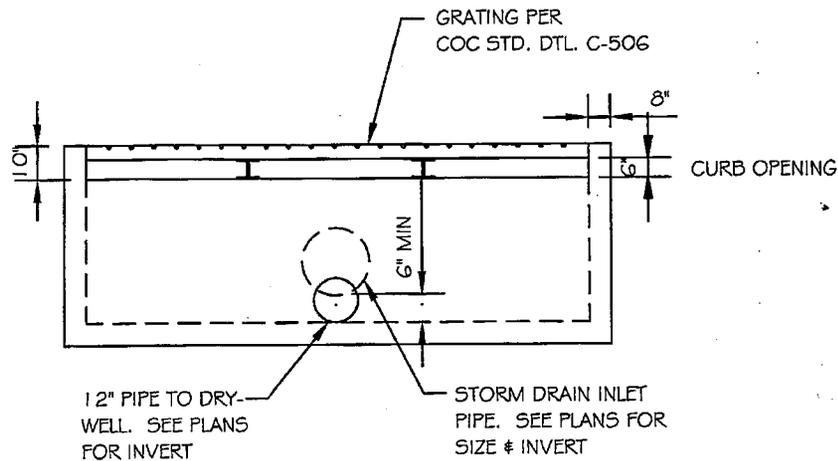


* DIMENSION WILL VARY DEPENDING UPON
CATCH BASIN PIPE SIZE.

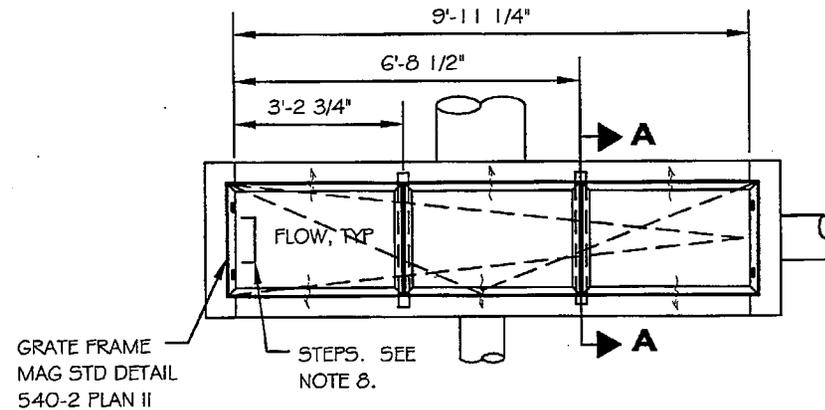
NOTES:

1. ALL STEEL SHALL BE IN ACCORDANCE WITH ASTM A-36.
2. WELDING SHALL BE IN ACCORDANCE WITH AWS SPECIFICATIONS.
3. FRAME AND GRATE SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS BEFORE DELIVERY.
4. THE COMPLETED ASSEMBLY SHALL BE GIVEN ONE SHOP COAT OF NO. 1 PAINT AND TWO FIELD COATS OF NO. 10 PAINT AS PER MAG SECTION 790.
5. THE GRATE SHALL BE FABRICATED TO WITHIN 1/8" OF SPECIFIED DIMENSIONS.

DETAIL NO. C-506 NTS	 CITY OF CHANDLER STANDARD DETAIL	CATCH BASIN GRATES	APPROVED:  CITY ENGINEER DATE: 11-19-99	DETAIL NO. C-506 NTS
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FRONT ELEVATION

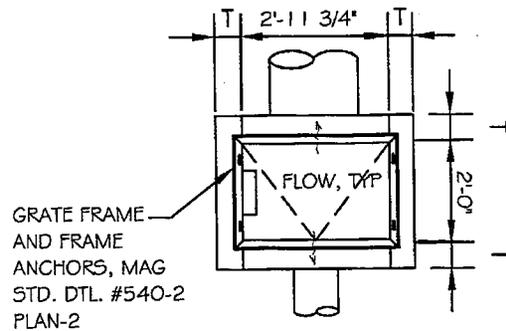


TRIPLE CATCH BASIN

NOTES:

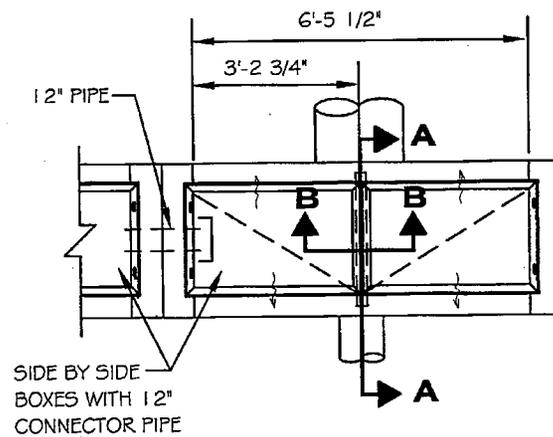
1. ALL CONCRETE SHALL BE M.A.G. CLASS 'A'.
2. CONNECTOR PIPES MAY BE PLACED IN ANY WALL AS PER PLAN.
3. FLOOR BASIN SHALL BE TROWELLED TO A HARD, SMOOTH SURFACE AND SHALL SLOPE FROM ALL DIRECTIONS TO OUTLET.
4. CONNECTOR PIPE SHALL BE TRIMMED TO THE FINAL SHAPE AND LENGTH BEFORE CONCRETE IS POURED.
5. PLANS SHOULD SPECIFY GRATE ELEVATION AND INVERT ELEVATION.
6. RETENTION BASIN INLET MAY BE PREFABRICATED PROVIDING A SHOP DRAWING IS APPROVED BY THE ENGINEER PRIOR TO FABRICATION.
7. THE FRAME SHALL BE MAG STD DETAIL 540-2, PLAN II, GRATE PER CHANDLER DET. #C-506.

DETAIL NO. C-507 NTS	 CITY OF CHANDLER STANDARD DETAIL	BELOW GRADE RETENTION BASIN INLET (BUBBLER BOX)	APPROVED:  CITY ENGINEER DATE: <u>01/08/09</u>	DETAIL NO. C-507 PAGE 1 OF 3
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GRATE FRAME
AND FRAME
ANCHORS, MAG
STD. DTL. #540-2
PLAN-2

SINGLE CATCH BASIN



SIDE BY SIDE
BOXES WITH 12"
CONNECTOR PIPE

DOUBLE CATCH BASIN

NOTES: (CONT)

8. STEPS (MAG DET. 428 POLYPROPYLENE)
V = 3' (INCL) PLACE ONE STEP 12" ABOVE
THE FLOOR OF THE BASIN. V OVER 3',
PLACE STEPS AT 12" INTERVALS FROM
THE FLOOR OF THE BASIN WITH THE TOP
STEP AT 12" (MIN) BELOW THE TOP OF GRATE.
9. ALL EXPOSED METAL HARDWARE SHALL BE
GIVEN ONE SHOP COAT OF NO. 1 PAINT AND
2 FIELD COATS OF NO. 10 PAINT AS PER
M.A.G. SECTION 790.
10. ALL METAL UNITS SHALL BE FABRICATED
FROM STRUCTURAL STEEL EXCEPT AS NOTED.
STRUCTURAL STEEL SHALL BE IN ACCORDANCE
WITH ASTM A-36.
11. WELDING SHALL BE IN ACCORDANCE WITH
MAG WELDING SPECIFICATIONS.

DETAIL NO.

C-507

NTS



CITY OF
CHANDLER
STANDARD
DETAIL

BELOW GRADE RETENTION BASIN INLET (BUBBLER BOX)

APPROVED:

[Signature]

CITY ENGINEER

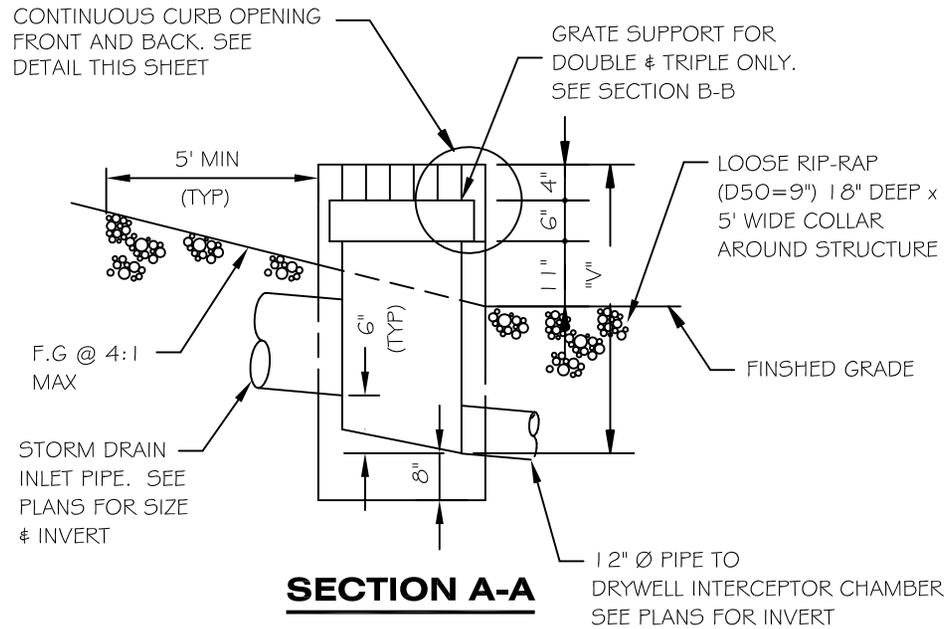
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01/09/09

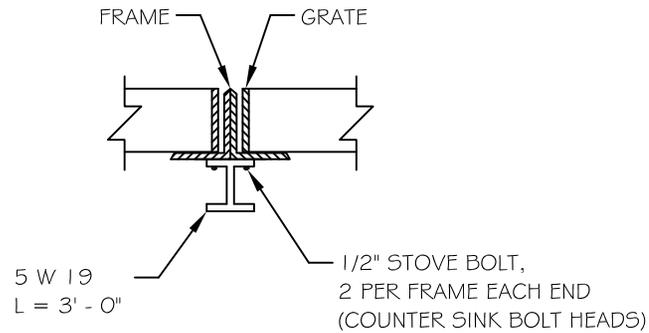
DETAIL NO.

C-507

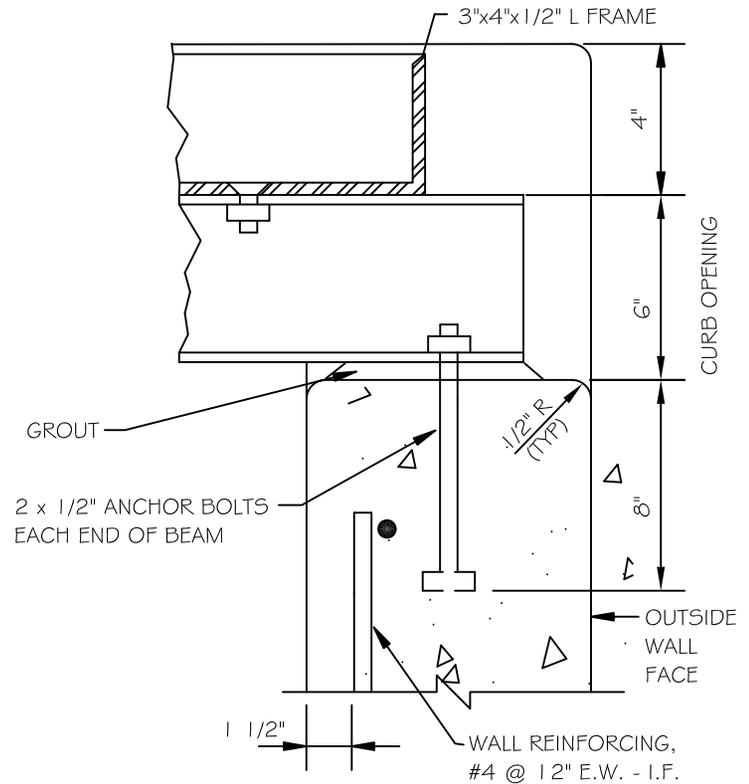
PAGE 2 OF 3



SECTION A-A



SECTION B-B



INLET CURB OPENING

CATCH BASIN WALL THICKNESS

T = 8" IF V IS UP TO 8'
 (IF V EXCEEDS 8', SPECIAL DESIGN IS REQUIRED)
 V = 3'-0" UNLESS OTHERWISE NOTED

DETAIL NO.

C-507

NTS



CITY OF
CHANDLER
STANDARD
DETAIL

**BELOW GRADE RETENTION BASIN
INLET (BUBBLER BOX)**

APPROVED:

[Signature]

CITY ENGINEER

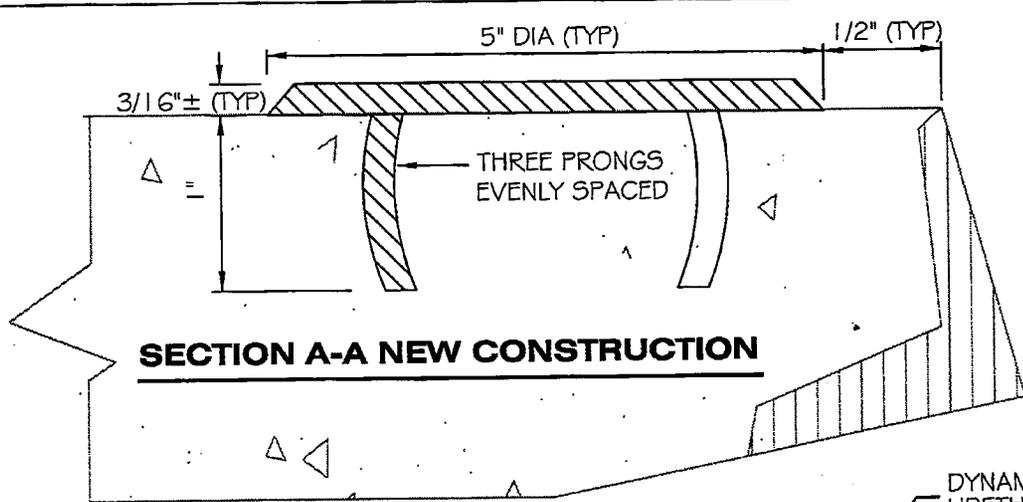
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05-10-2018

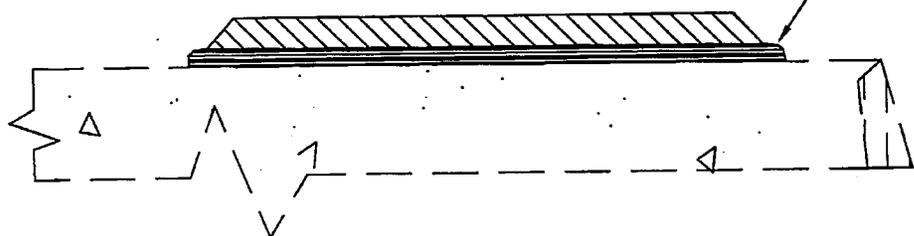
DETAIL NO.

C-507

PAGE 3 OF 3



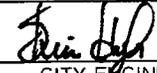
DYNAMIX #6125-1
URETHANE UNIVERSAL
ADHESIVE



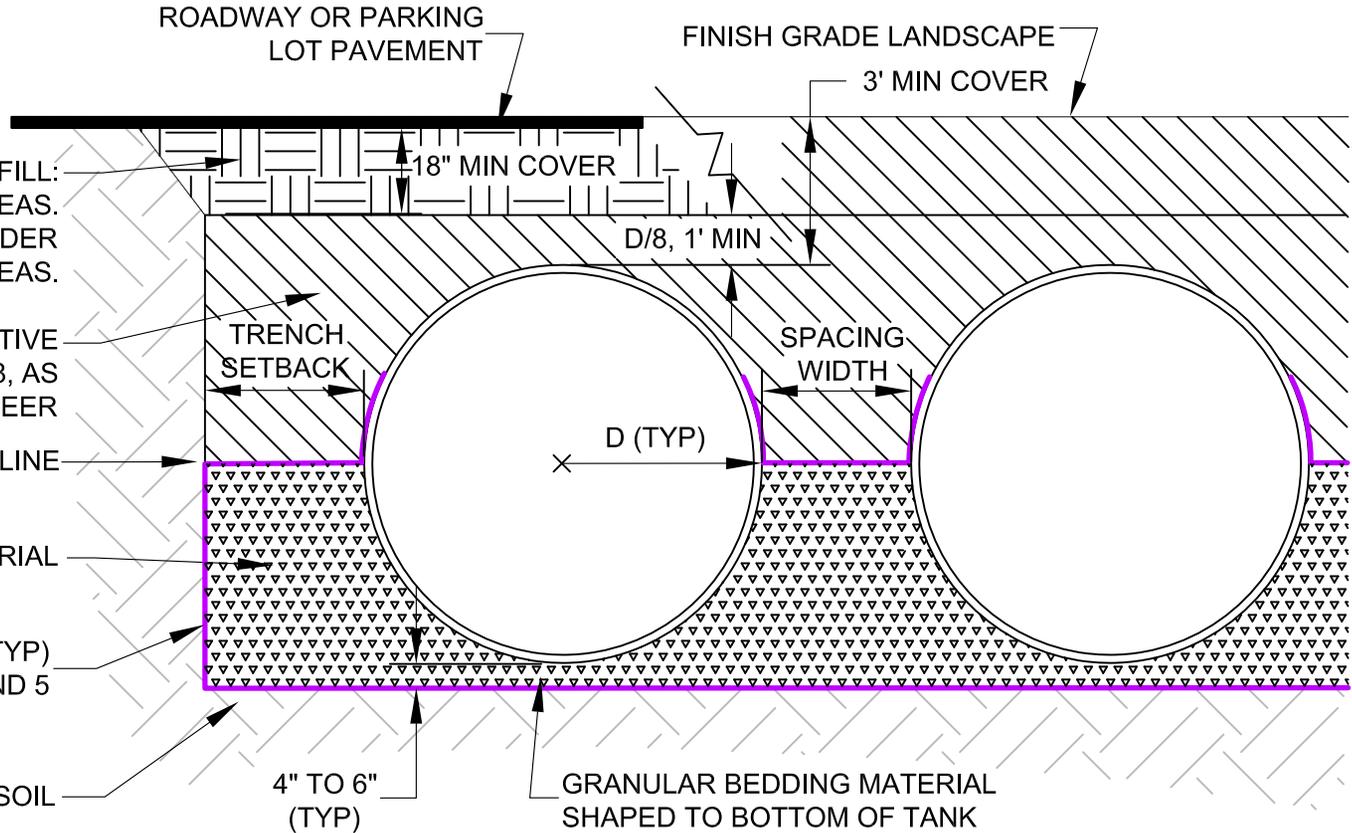
SECTION A-A EXISTING STRUCTURES

NOTES

1. MATERIAL: CAST ALUMINUM
2. THE WIDTH OF INDIVIDUAL LETTERS SHALL BE SELECTED SO THAT LETTERS AND WORDS ARE EQUALLY SPACED AND BALANCED.
3. LETTERS SHALL BE 1/2" IN HEIGHT. MARKER LAYOUT SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.
4. MARKERS SHALL BE ALIGNED WITH THE CENTER OF DRAINAGE INLETS AT THE TOP OF CURB.

DETAIL NO. C-508 NTS	 CITY OF CHANDLER STANDARD DETAIL	STORM DRAIN INLET MARKER	APPROVED:  CITY ENGINEER DATE: <u>01/08/09</u>	DETAIL NO. C-508 NTS
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DIAM (D)	TRENCH SETBACK	SPACING WIDTH
96"	18"	30"
> 96"	21"	36"



NOTES:

1. TRENCH EXCAVATION, BACKFILLING AND COMPACTION SHALL BE PER MAG SECTION 601, UNLESS OTHERWISE SPECIFIED.
2. GRANULAR MATERIAL SHALL BE 3/8" MINUS OPEN-GRADED CRUSHED ROCK DEPOSITED IN 8" LIFTS UNIFORMLY ON EACH SIDE OF THE PIPE AND COMPACTED USING VIBRATING COMPACTOR.
3. AGGREGATE BASE COURSE (ABC) MATERIAL CONFORMING TO MAG SECTION 702 MAY BE SUBSTITUTED FOR THE GRANULAR MATERIAL WITH CITY APPROVAL. IN THAT CASE, COMPACTION SHALL BE AT LEAST 95% OF AASHTO T-99 STANDARD PROCTOR DENSITY, AND THE SEPARATION FABRIC MAY BE OMITTED.
4. BACKFILL PLACEMENT AND COMPACTION SHALL BE MONITORED AND CERTIFIED BY A GEOTECHNICAL ENGINEERING FIRM RETAINED BY THE OWNER OR CONTRACTOR.
5. SEPARATION FILTER FABRIC SHALL BE NON-WOVEN, MODERATE SURVIVABILITY SUCH AS CONTECH C-45, MIRAFI 160N, US FABRICS US 160NW, CARTHAGE MILLS FX-60HS, OR APPROVED EQUAL.

DETAIL NO.

C-509

NTS



CITY OF
CHANDLER
STANDARD
DETAIL

**BACKFILL DETAIL
CMP UNDERGROUND RETENTION
STORAGE TANK**

APPROVED:

CITY ENGINEER

DATE:

05-10-2018

DETAIL NO.

C-509

NTS