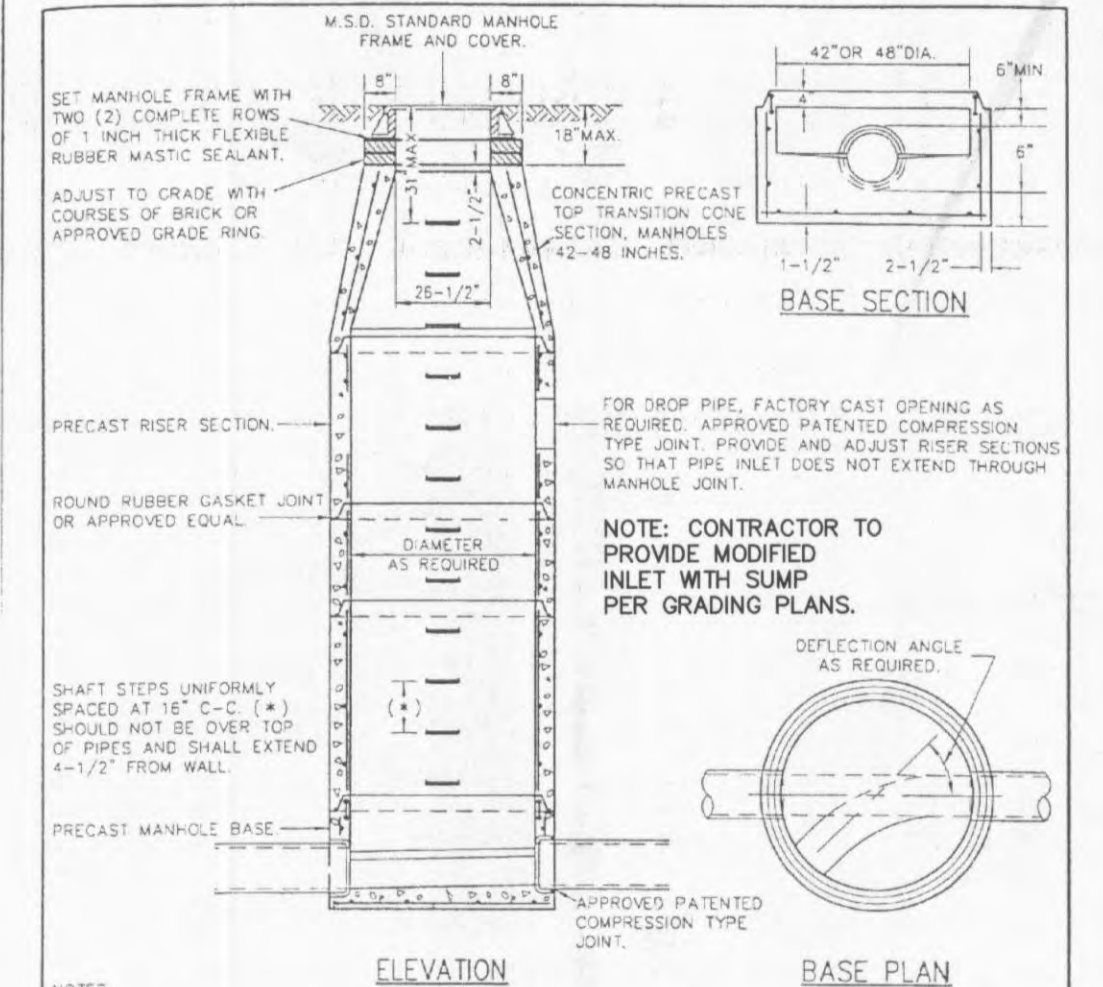


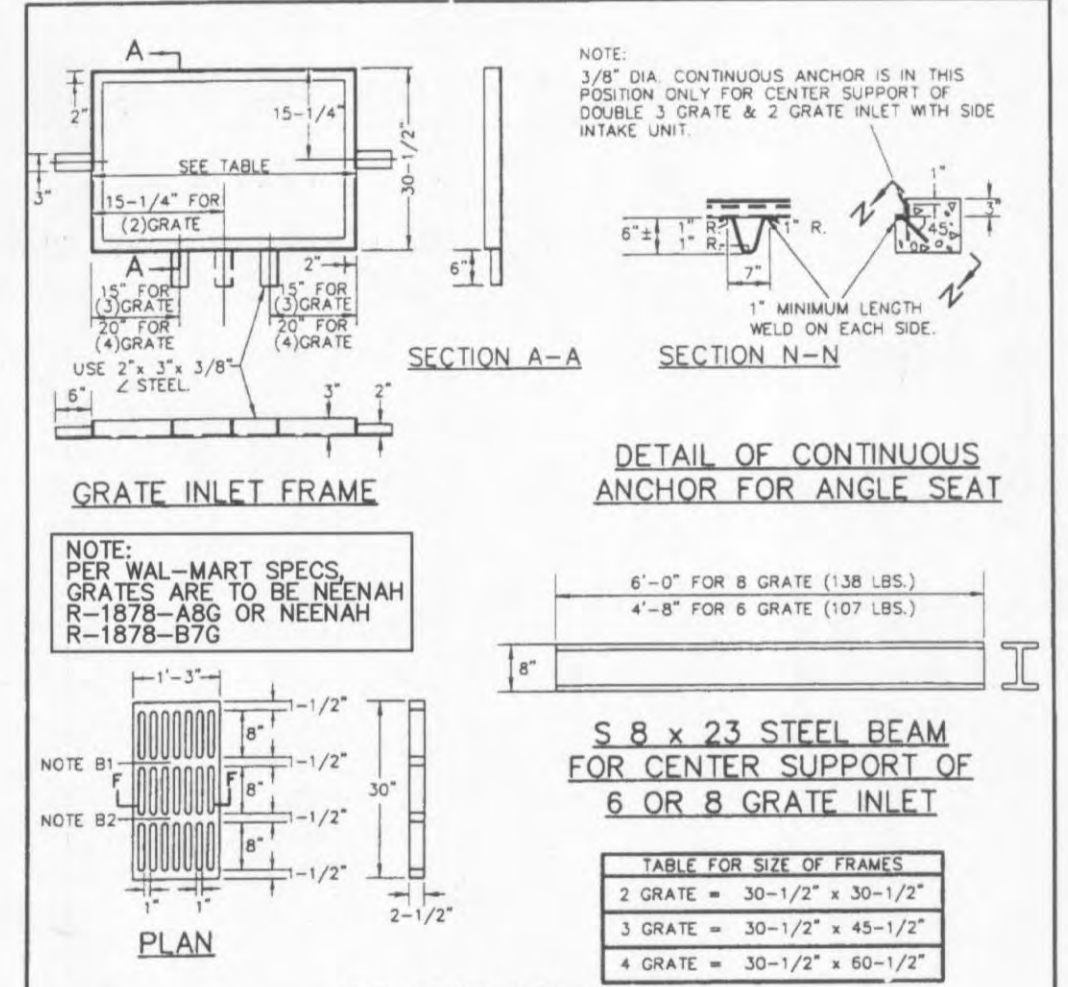
AREA INLET PRECAST CONCRETE	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction	Dr. JLG/SAM Ch. J.C.K.	2000	SHEET 35
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NOTES:

- THE MINIMUM INSIDE DIAMETER FOR THE BASE AND RISER SECTIONS SHALL BE 42 INCHES FOR 8 INCH DIAMETER SANITARY SEWERS AND ALL STORM SEWERS. THE MINIMUM INSIDE DIAMETER FOR SANITARY SEWERS LARGER THAN 8 INCH DIAMETER IS 48 INCHES. MANHOLE SHALL MEET ASTM C-478 REQUIREMENTS.
- FLOWLINE ELEVATION OF INCOMING PIPES SHALL BE 1 INCH HIGHER THAN THAT OF OUTGOING PIPE.
- PIPE SIZES LARGER THAN 24 INCH DIAMETER MAY REQUIRE MANHOLE DIAMETERS OF 60 INCH, 72 INCH OR 84 INCH AS DETERMINED BY OUTSIDE DIAMETERS AND ORIENTATIONS OF CONNECTING PIPES.
- CENTRIC CONES SHALL BE USED ON DIAMETERS 60 INCH AND LARGER. STEPS SHALL EXTEND DOWN VERTICAL WALL OF CONE.
- PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL OF MANHOLES ON PIPE DIAMETERS LARGER THAN 24 INCH AND ALSO FOR THOSE STRUCTURES WITH A DROP PIPE CONNECTION.

PRECAST CONCRETE MANHOLE	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction	Dr. WSH/SAM Ch. J.C.K.	2000	SHEET 21
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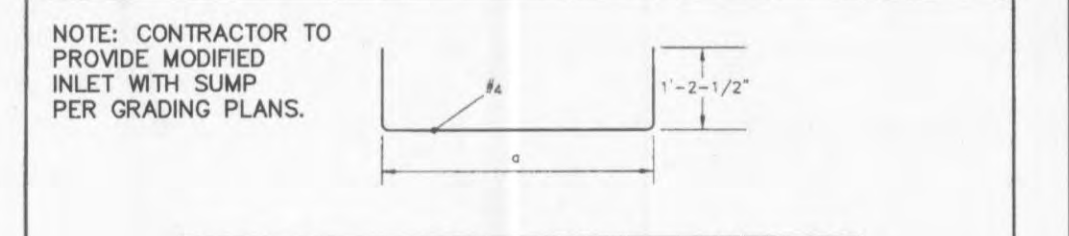
NOTE: CONTRACTOR TO PROVIDE MODIFIED INLET WITH SUMP PER GRADING PLANS.

TABLE FOR SIZE OF FRAMES

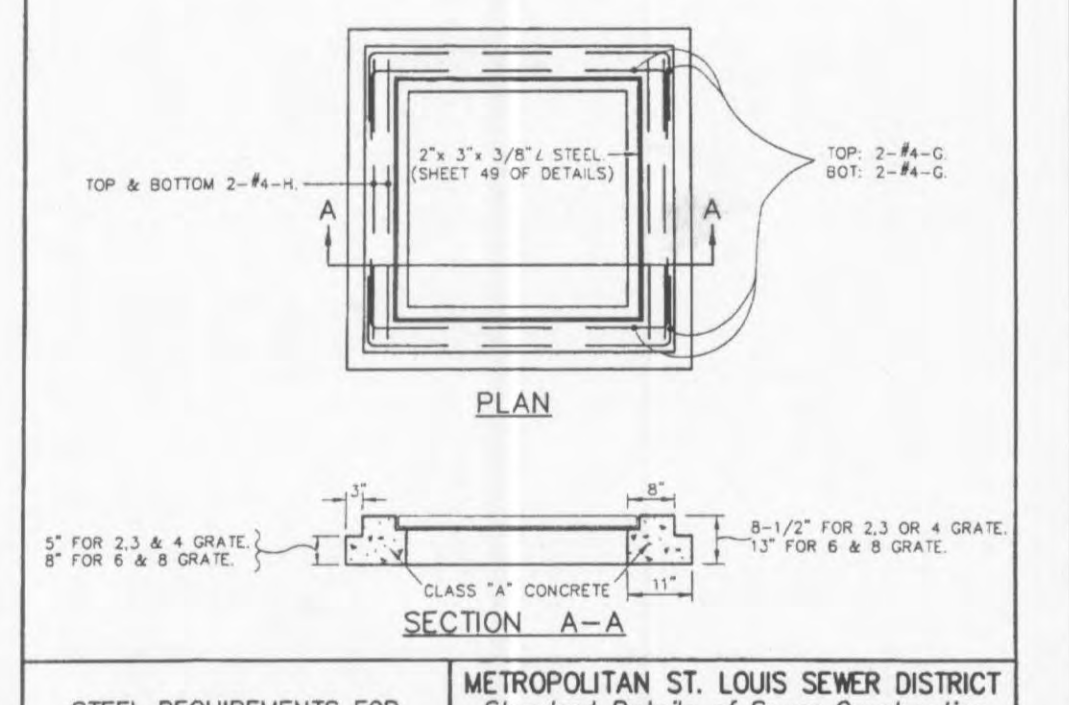
2 GRATE	= 30-1/2" x 30-1/2"
3 GRATE	= 30-1/2" x 43-1/2"
4 GRATE	= 30-1/2" x 60-1/2"

CAST IRON GRATE (NF. R-3297 OR EQUAL)

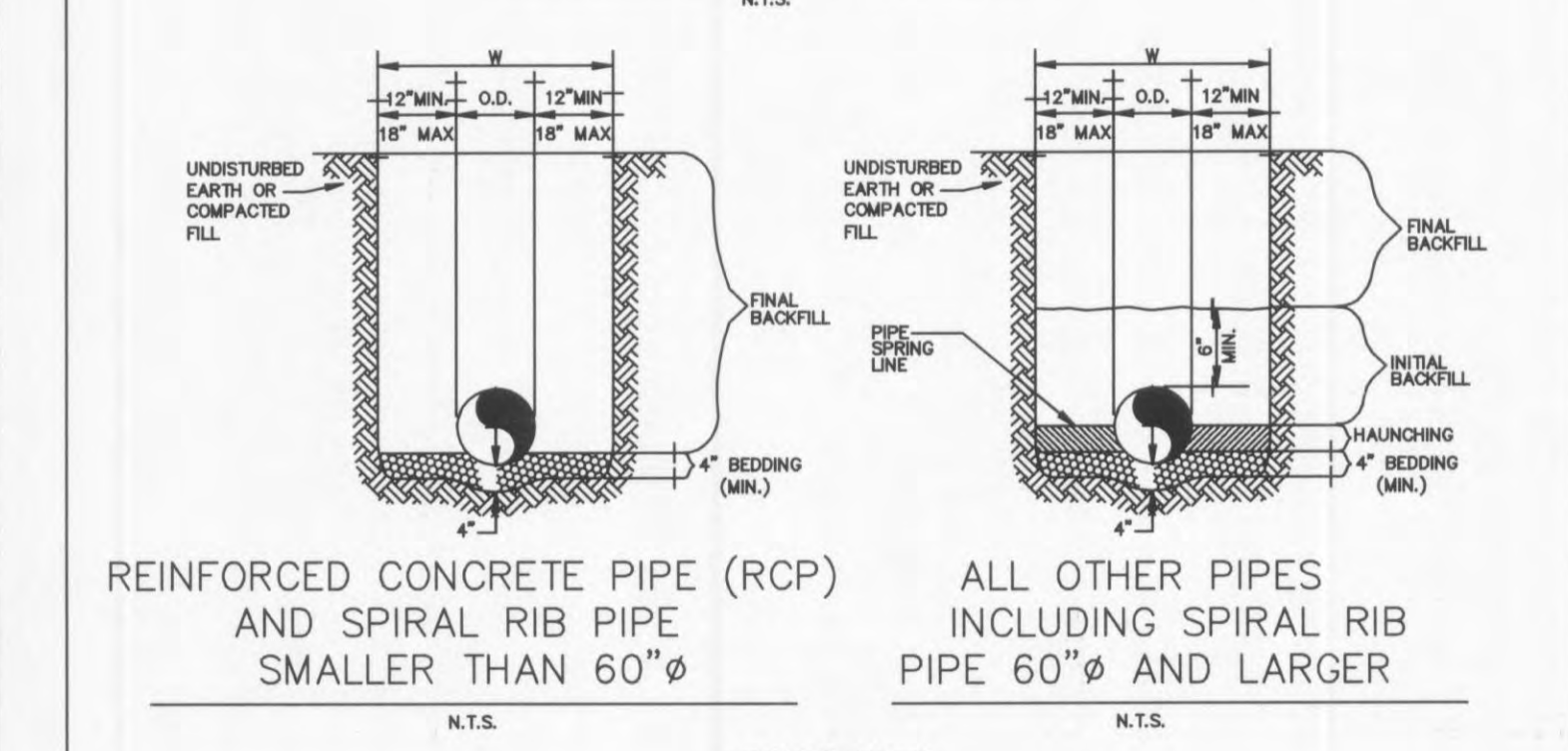
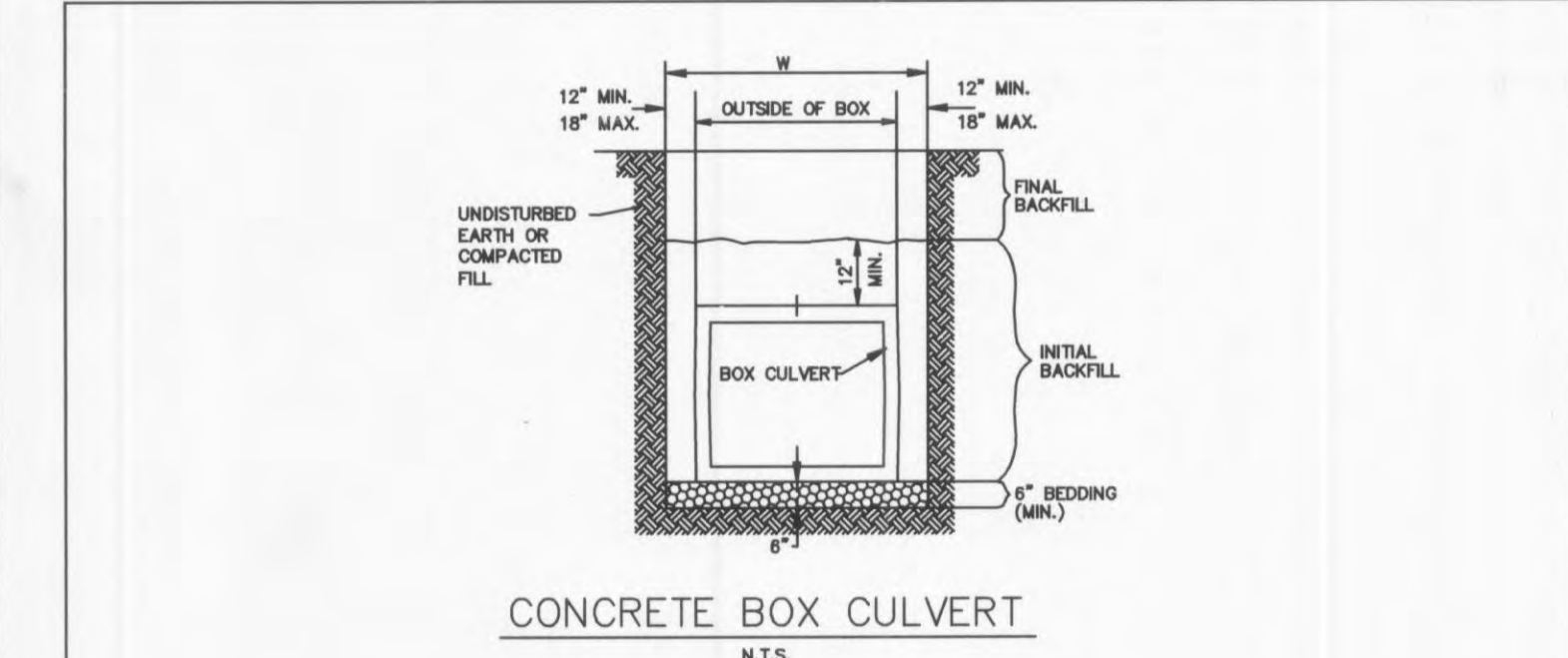
DETAILS OF INLET FRAME AND GRATES	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction	Dr. RGV/SAM Ch. J.C.K.	2000	SHEET 48
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STEEL REQUIREMENTS FOR GRATE INLET SEAT	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction	Dr. WSH/SAM Ch. J.C.K.	2000	SHEET 50
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CONCRETE FLUME	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction	Dr. WSH/SAM Ch. J.C.K.	2000	SHEET 25
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GENERAL NOTES

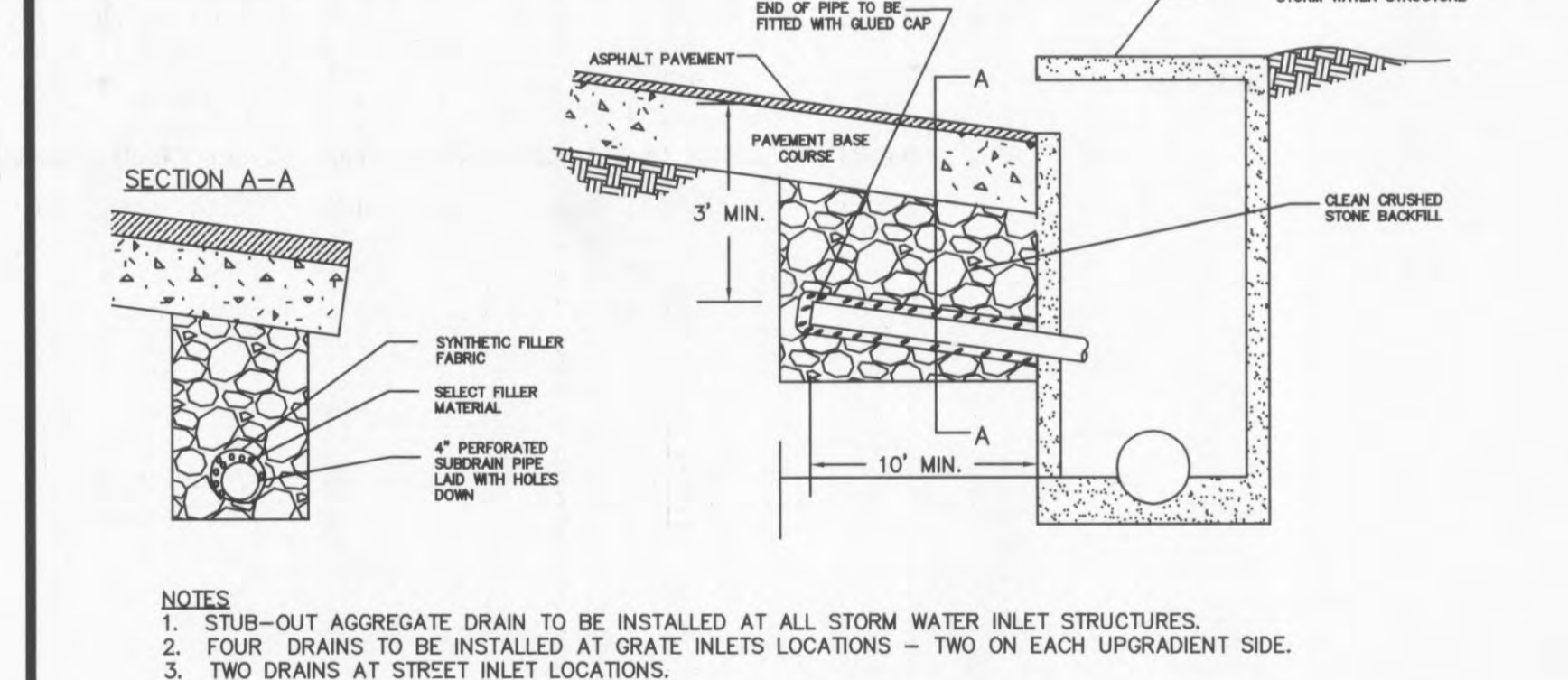
- BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 80% STANDARD PROCTOR.
- HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 80% PROCTOR.
- INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 80% STANDARD PROCTOR.
- INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS II COMPACTED TO 90% STANDARD PROCTOR.
- FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3, AND 4.
- FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV-A COMPACTED TO 90% STANDARD PROCTOR.
- ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-LATEST EDITION.
- ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D 698. CLASS II AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
- FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
- ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

STORM SEWER TRENCH AND BEDDING

N.T.S.

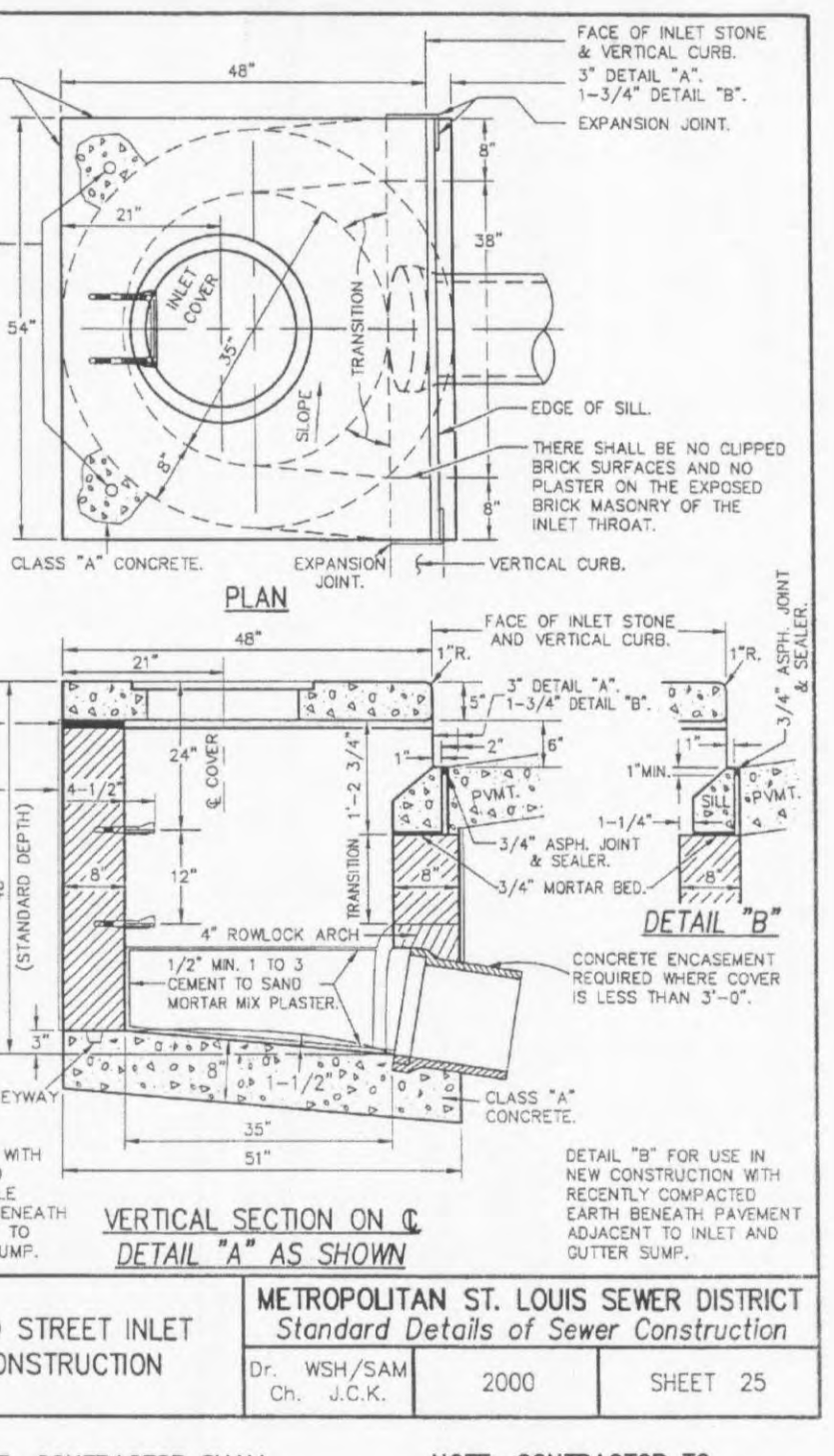
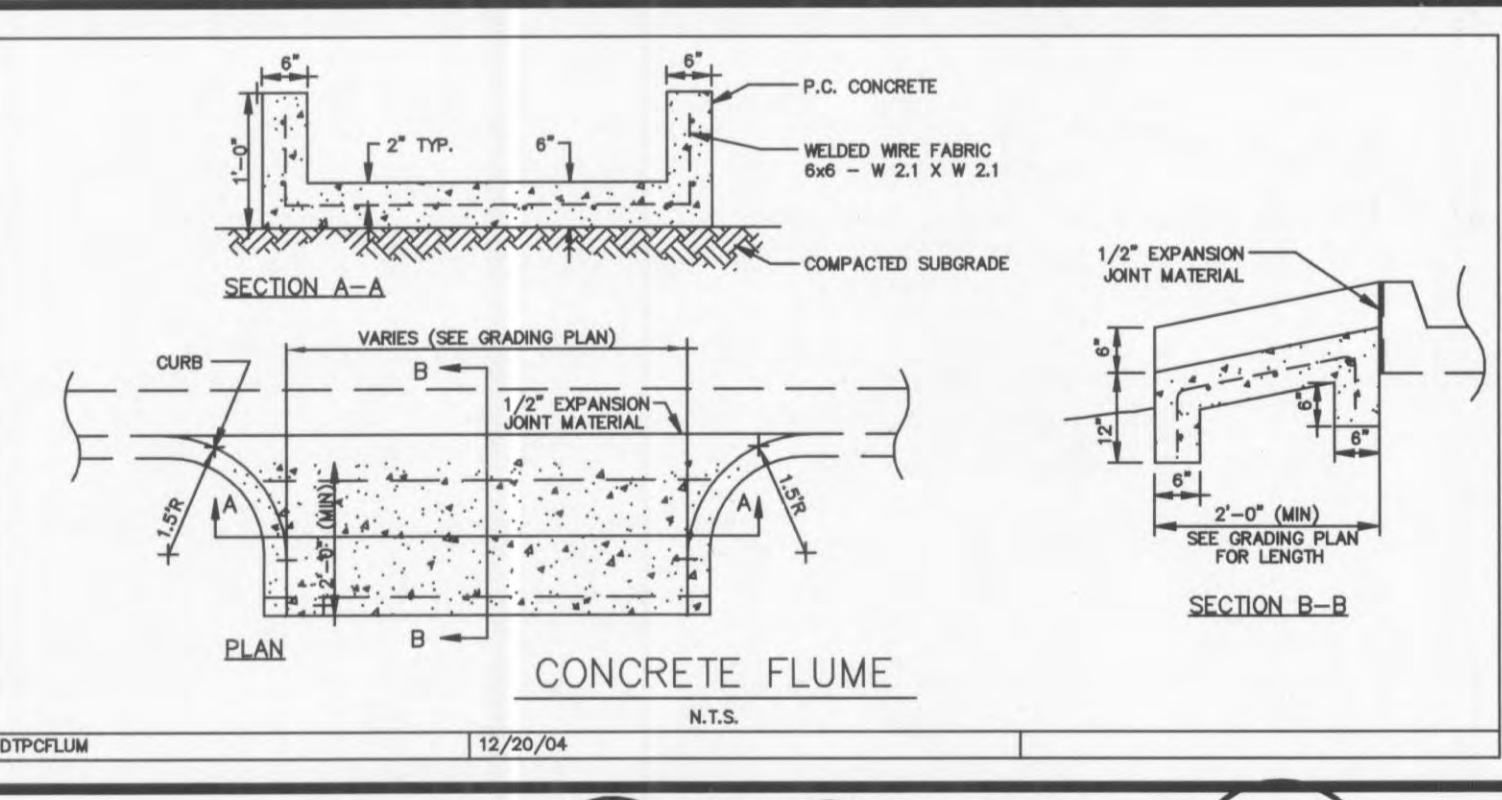
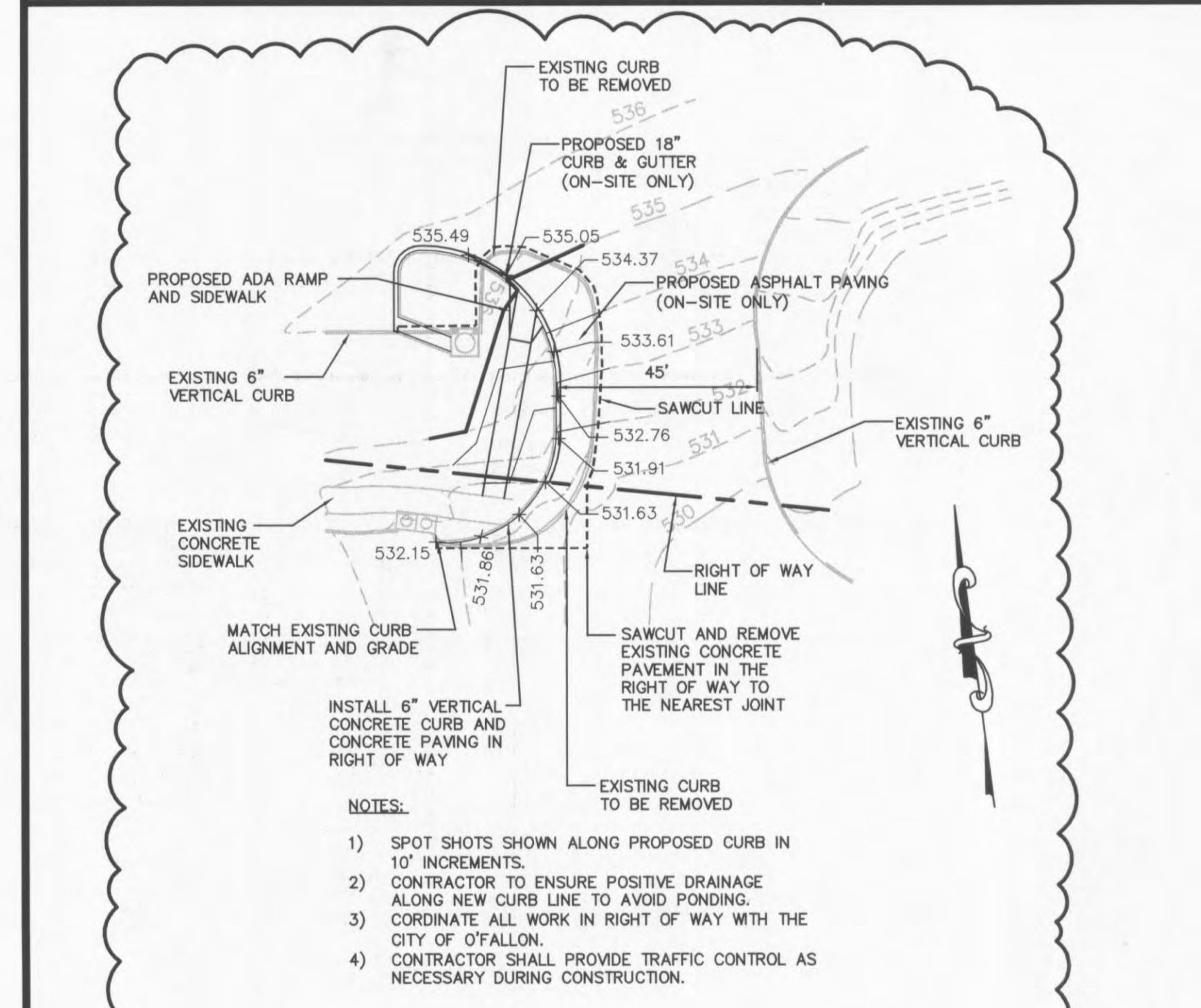
NOTE: REFER TO PROFILES FOR LOCATIONS WHERE GRANULAR FILL IS REQUIRED

OTRENCH	12/20/04
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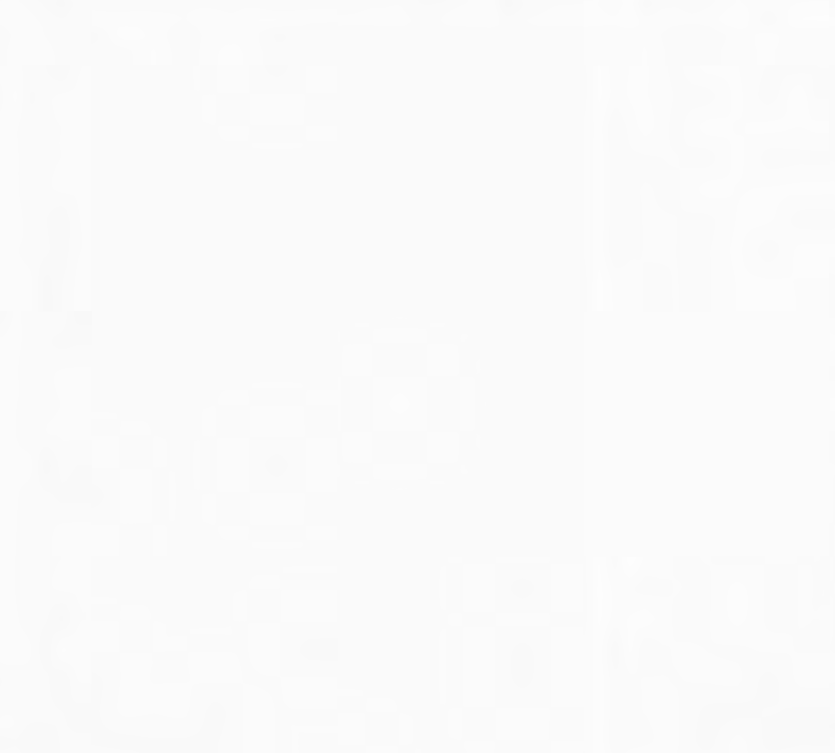


NOTES:

- STUB-OUT AGGREGATE DRAIN TO BE INSTALLED AT ALL STORM WATER INLET STRUCTURES.
- FOUR DRAINS TO BE INSTALLED AT GRATE INLETS LOCATIONS - TWO ON EACH UPGRADIENT SIDE.
- TWO DRAINS AT STREET INLET LOCATIONS.



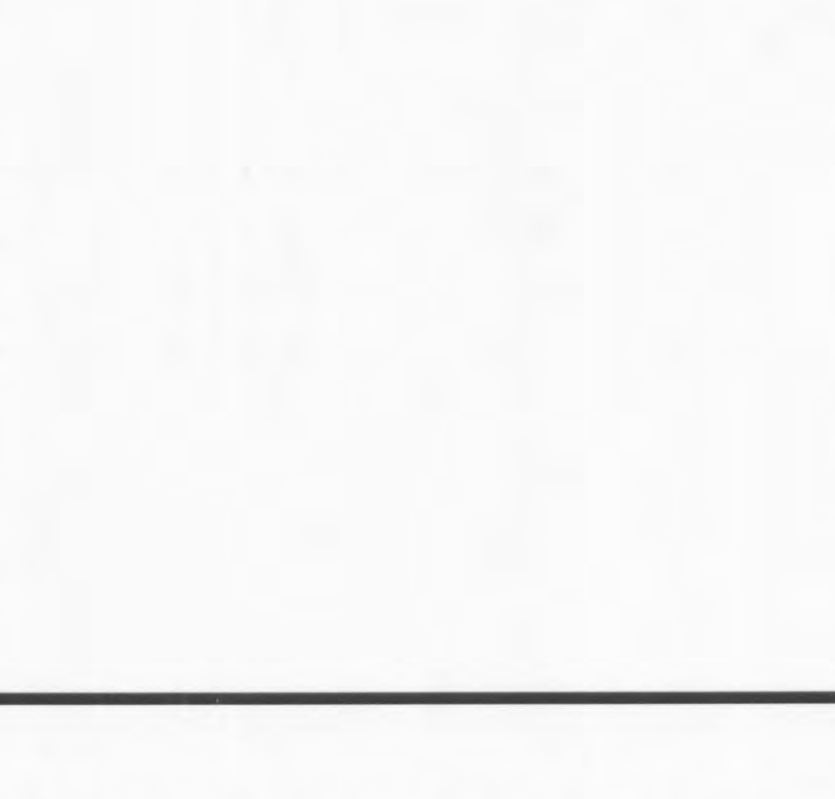
UNTRAPPED STREET INLET BRICK CONSTRUCTION	METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction	Dr. WSH/SAM Ch. J.C.K.	2000	SHEET 25
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GENERAL NOTES

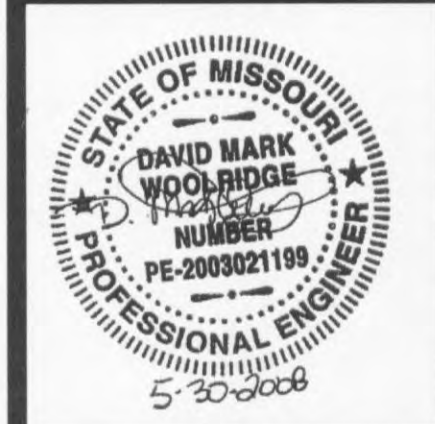
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Phone: (770) 447-8899 • Fax: (770) 447-9070
www.wolverton-assoc.com



PROPOSED EXPANSION TO WAL-MART #2616-04
O'FALLON POINTE CENTRE
O'FALLON, MISSOURI 63366
BY: WAL-MART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR.

REVISIONS	BY
ADDENDUM 6 6/18/08	CER

DRAWN BY CER
CHECKED BY DMW
DATE: 05/30/2008
SCALE: NOT TO SCALE
JOB No. 06-107
SHEET NUMBER

DE-2A
EDDS • 6160