

FOR CURB, DRIVE APRON AND SIDEWALK INSPECTIONS CALL THE PUBLIC WORKS DEPARTMENT AT 573-364-8659.

24 HOUR NOTICE TO PUBLIC WORKS DEPARTMENT IS REQUIRED BEFORE EXCAVATION BEGINS IN RIGHT OF WAY.

CONTRACTOR SHALL PROVIDE ALL SIGNS AND BARRICADES.

REFUNDS OR ADDITIONAL FEES WILL BE BASED ON MATERIAL CALCULATIONS AFTER THE EXCAVATED AREA IS COMPLETELY RESTORED TO GOOD OR BETTER CONDITION AS ORIGINAL.

DIRT RESTORATION SHALL BE COMPLETED IN R.O.W. WITHIN 30 DAYS OF EXCAVATION OR A \$200 PENALTY WILL BE BILLED TO PERMIT HOLDER.

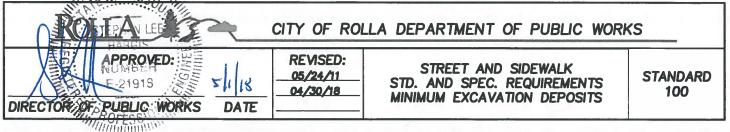
OPEN EXCAVATIONS WILL NOT BE ALLOWED IN STREET OVERNIGHT UNLESS PRIOR APPROVAL WAS OBTAINED FROM THE PUBLIC WORKS DIRECTOR.

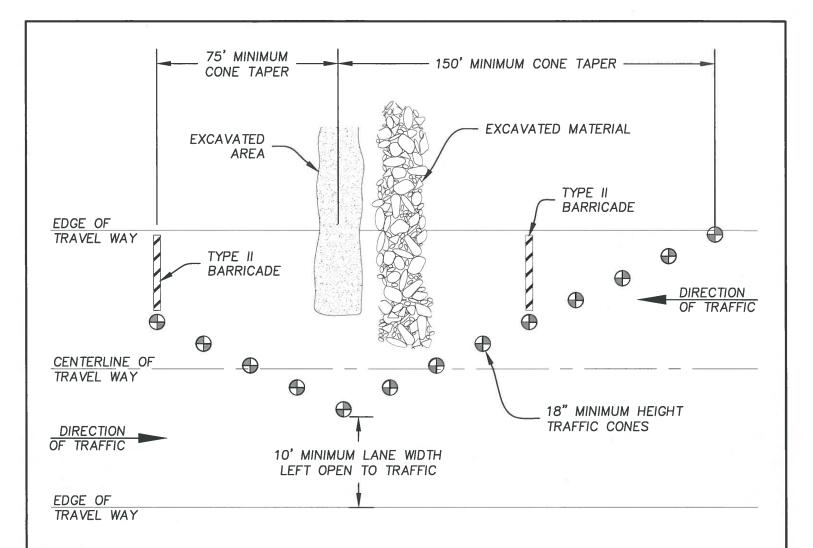
FOR DRIVE APRONS REFER TO STANDARD 212.

FOR STREET PATCH DETAIL REFER TO STANDARD 102.

PERMANENT PRIVATE APPURTENANCES SHALL NOT BE INSTALLED IN OR ENCROACH ON THE CITY RIGHT-OF-WAY; I.E. LAWN SPRINKLER LINES, FENCES, UNDERGROUND WIRING, ETC.

EXCAVATION PERMITS WILL BE CLOSED OUT AND REFUNDED IF NO ACTIVITY WITHIN 1 YEAR.





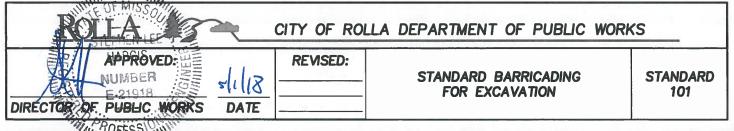
EXCAVATION TO PROGRESS AS TO ALLOW AT LEAST A 10' MINIMUM LANE WIDTH OPEN TO TRAFFIC. UNDER NO CIRCUMSTANCES IS THE ENTIRE STREET TO BE CLOSED TO TRAFFIC.

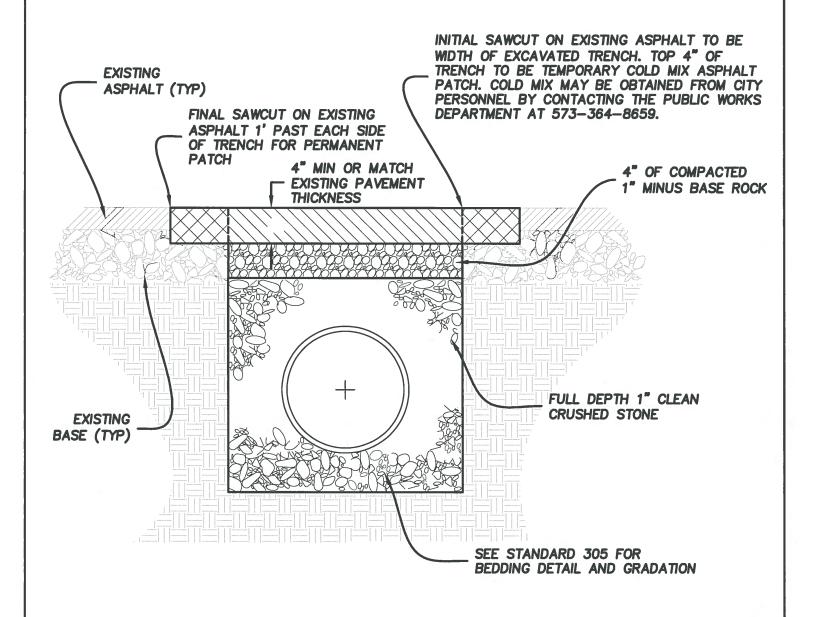
EXCAVATION TO BE SCHEDULED AS TO BE COMPLETED DURING DAY LIGHT HOURS. <u>UNDER NO CIRCUMSTANCES IS AN EXCAVATION TO BE LEFT UNCOVERED OVER NIGHT OR LEFT UNATTENDED.</u>

IF AT ANY TIME A QUESTION ARISES AS TO PROPER PLACEMENT OF BARRICADES, CALL 573-364-8659 TO REQUEST ASSISTANCE.

BARRICADES MUST CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". IF BARRICADES ARE NEEDED, THEY MAY BE OBTAINED FROM LOCAL EQUIPMENT RENTAL STORES.

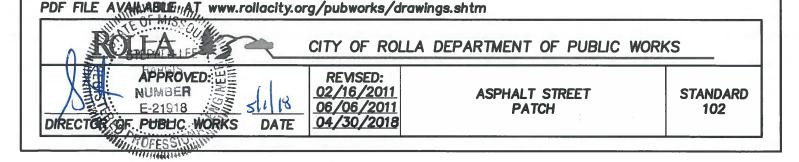
STREET LANE RESTRICTIONS AND/OR CLOSINGS SHALL BE COORDINATED WITH THE CITY OF ROLLA STREET DEPARTMENT. CONTRACTOR IS RESPONSIBLE FOR BUT NOT LIMITED TO PROVIDING ALL TRAFFIC CONTROL SIGNAGE, LIGHTS, CONES, BARRICADES, FLAGPERSONS, AND/OR ANY DEVICE NEEDED FOR SAFE TRAFFIC CONTROL ON FEDERAL, STATE, COUNTY, AND CITY RIGHT—OF—WAYS.

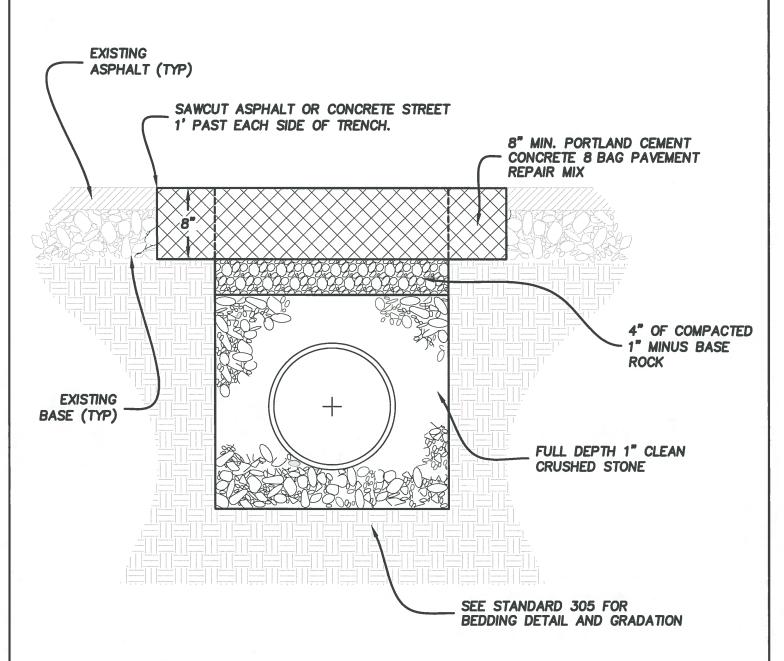




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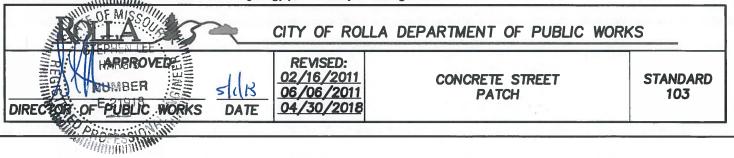
BP1 ASPHALTIC CONCRETE SHALL BE COMPACTED IN PLACE IN MAXIMUM LIFTS OF 3 INCHES.

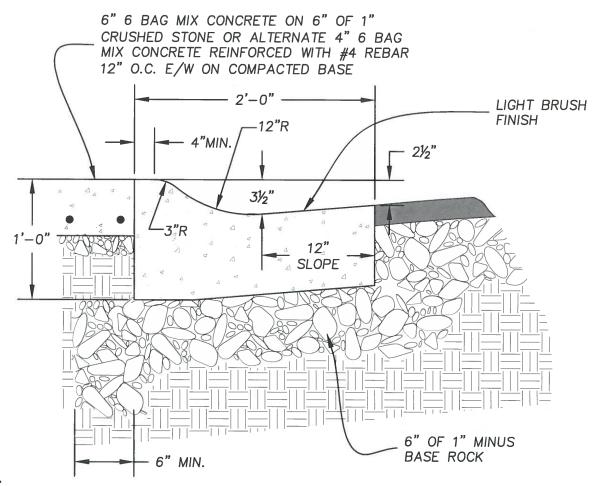




24 HOUR NOTICE TO PUBLIC WORKS DEPARTMENT IS REQUIRED BEFORE DIGGING IN THE RIGHT OF WAY.

PORTLAND CEMENT CONCRETE REQUIRES A MINIMUM OF 4 HOURS CURING TIME BEFORE BEING OPENED TO TRAFFIC. SURFACE SHALL BE BROOM FINISHED.





ROLLOVER CURB TO BE APPROVED ON CASE BY CASE BASIS UPON PWD APPROVAL.

USE OF ROLLOVER CURB WILL REQUIRE ADDITIONAL STORM SEWER INLETS. REFER TO SECTION 3.10 OF THE CITY'S STORM WATER DESIGN STANDARDS, TABLE 3-6, FOR ALLOWABLE GUTTER FLOW AND SPREAD LIMITS.

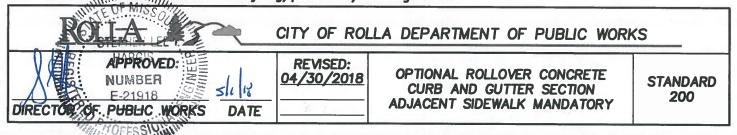
CONCRETE SHALL BE 6 BAG MIX (4,000 PSI) WITH SLUMP TEST LIMITS OF NOT LESS THAN 1 INCH NOR MORE THAN 4 INCHES.

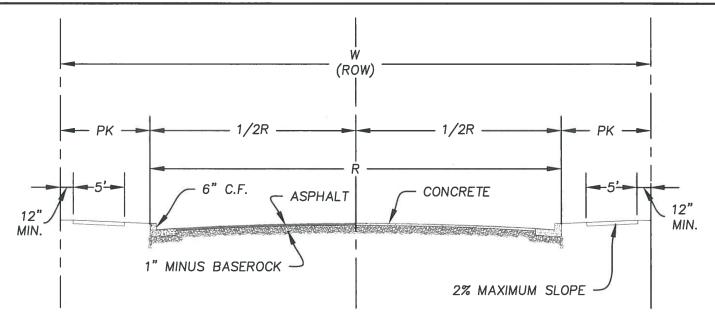
WHERE CURB IS PLACED WITHOUT STREET IMPROVEMENT, A MIN, OF 6 INCHES BASEROCK IS REQUIRED AT NOT LESS THAN 95% STANDARD PROCTER TEST AT OPTIMUM MOISTURE CONTENT.

1/2" PREMOLDED EXPANSION JOINT PLACED EVERY 100 FT. (MIN.) THROUGH ENTIRE CROSS SECTION OF CURB.

CONSTRUCTION JOINTS SHALL BE PLACED EVERY 10 FT.

FRAME AND GRATE ASSEMBLY SHALL BE NEENAH R-3501-TR OR -TL (DEPENDING ON FLOW DIRECTION) OR APPROVED EQUAL IF INLET FALLS IN DRIVEWAY.





						3		N	IINIMUM TH	HICKNE	SS	
TVDE	W R	R		S	BARKINO	GRASS	FULL DEPTH ASPHALT		ASPHALT/ BASE ROCK		CONCRETE	
TYPE	VV	К	PK	3	PARKING	STRIP	ASPHALT	BASE ROCK	ASPHALT	BASE ROCK	CONCRETE	BASE ROCK
CUL-DE-SAC (ADT <250)	50'	30'	10'	* ONE SIDE 5'	BOTH SIDES	NONE	3 ½"	4"	3"	6"	6"	4"
ESTATE LANE (ADT <1000)	50'	30'	10'	** ONE SIDE 5'	BOTH SIDES	NONE	4"	4"	3"	8"	6"	4"
MINOR RESIDENTIAL (ADT <1000)	50'	30'	10'	ONE SIDE 5'	BOTH SIDES	3'	4"	4"	3"	8"	6"	4"
RESIDENTIAL COLLECTOR (ADT 1000-3000)	50'	34'	8'	BOTH SIDES 5'	ONE SIDE	3'	6 ½"	4"	4"	12"	6"	4"
COLLECTOR/COMMERCIAL (ADT 2000-6000)	60'	34'	13'	BOTH SIDES 5'	NO PARKING	3'	10"	4"	5"	16"	7"	4"
INDUSTRIAL (ADT <6000)	60'	34'	13'	NONE	NO PARKING	NONE	10"	4"	5"	16"	7"	4"
ARTERIAL (ADT 3000-10000)	80'	34'	23'	BOTH SIDES 5'	NO PARKING	3'	12"	4"	6"	18"	8"	4"

W=WIDTH S=SIDEWALK R=WIDTH OF ROADWAY ADT=AVERAGE DAILY TRAFFIC NOTES:

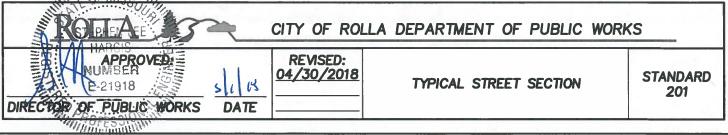
SUBGRADE AND AGGREGATE BASE SHALL BE COMPACTED TO NOT LESS THAN 95% STANDARD PROCTER TEST AT OPTIMUM MOISTURE CONTENT.

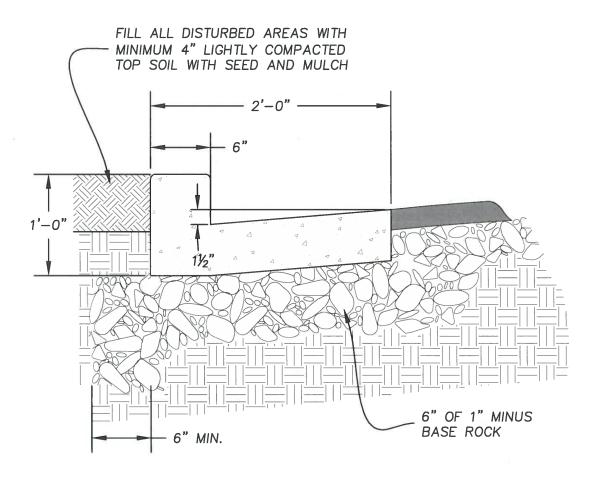
CROWN NOT LESS THAN 4 INCHES NOR MORE THAN 6 INCHES.

*NO SIDEWALKS WILL BE REQUIRED ON RESIDENTIAL CUL-DE-SAC STREETS THAT ARE LESS THAN 600 FEET IN LENGTH AND HAVE NO MORE THAN 15 LOTS OR DWELLING UNITS.

**NO SIDEWALKS WILL BE REQUIRED ON ESTATE LANES WITH LARGE LOTS 25,000 SQUARE FEET, RESIDENTIAL SUBDIVISIONS WITH 10 LOTS OR MORE WITH A MINIMUM PER LOT FRONTAGE OF 150 FEET.

SUBGRADE MUST BE PROOFROLLED PRIOR TO INSTALLATION OF AGGREGATE MATERIAL. AGGREGATE MATERIAL MUST BE PROOFROLLED PRIOR TO ASPHALT INSTALLATION. PROOFROLLING SHALL BE DONE BY CITY PERSONNEL.





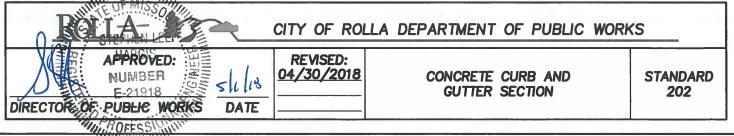
CONCRETE SHALL BE 6 BAG MIX (4,000 PSI) WITH SLUMP TEST LIMITS OF NOT LESS THAN 1 INCH NOR MORE THAN 4 INCHES.

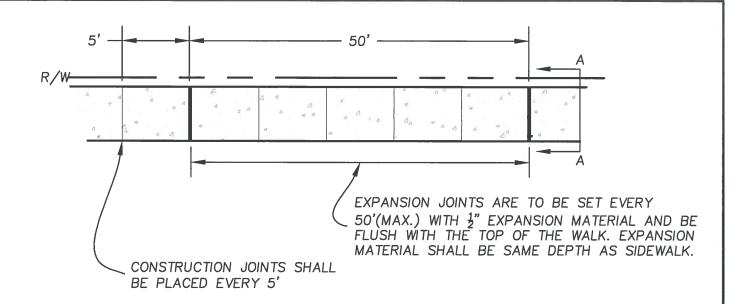
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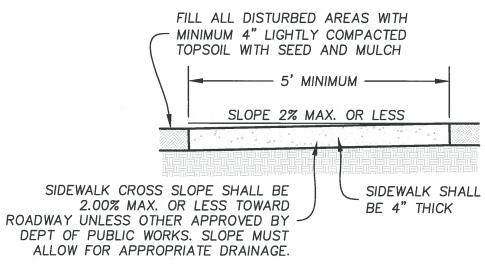
1/2" PREMOLDED EXPANSION JOINT PLACED EVERY 100 FT. (MIN.) THROUGH ENTIRE CROSS SECTION OF CURB.

CONSTRUCTION JOINTS SHALL BE PLACED EVERY 10 FT.

CONCRETE TO HAVE LIGHT BRUSH FINISH AND 1/4"R EDGE ON EXPOSED CORNERS.







SECTION A-A

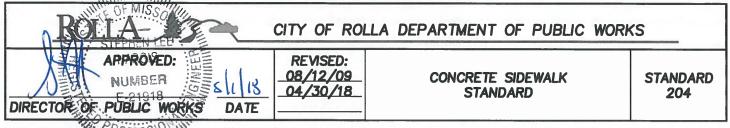
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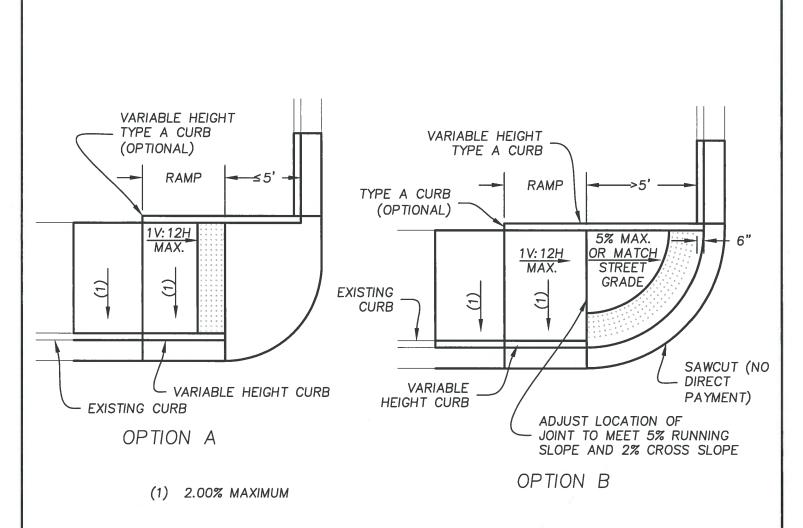
6 BAG CONCRETE MIX (4,000 PSI) SHALL BE USED ON ALL SIDEWALK.

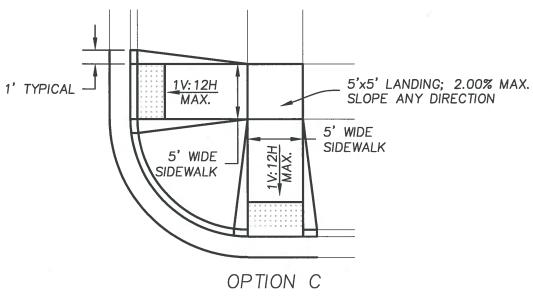
ALL FILL UNDER SIDEWALK SHALL BE TO 95% COMPACTION NONORGANIC MATERIAL APPROVED BY DEPARTMENT OF PUBLIC WORKS.

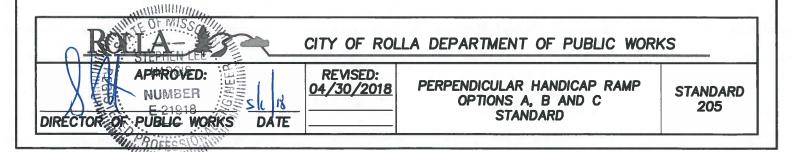
WHEN CROSSING THE WIDTH OF A DRIVEWAY, SIDEWALK SHALL BE 6" THICK CONCRETE WITH 6" OF 1" CLEAN ROCK UNDERNEATH.

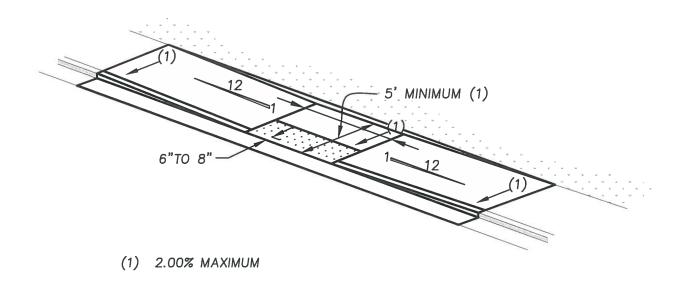
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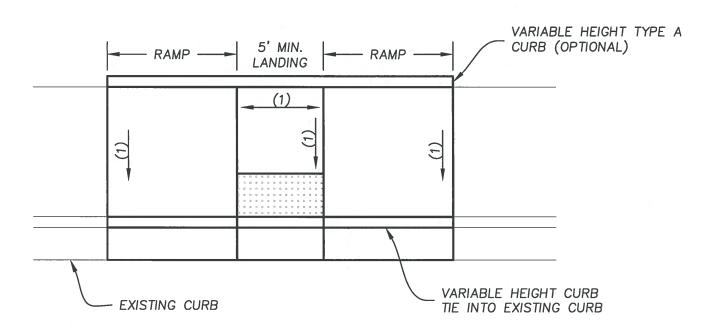




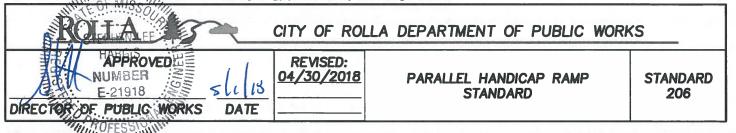


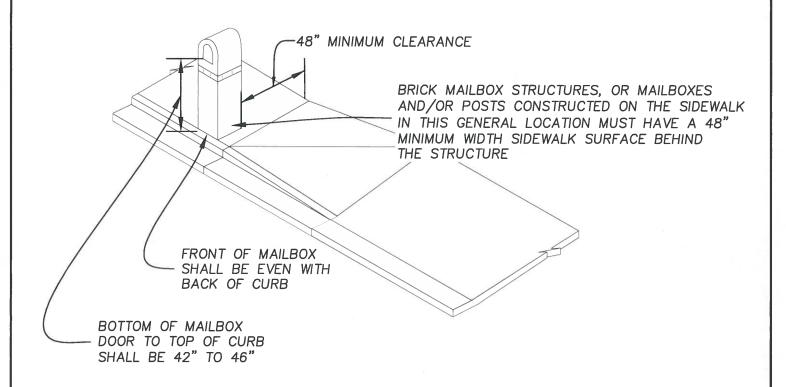


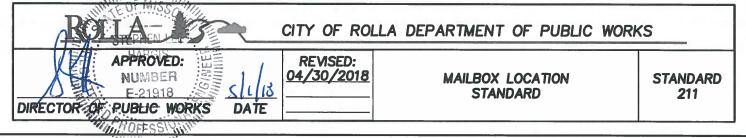




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EXCEEDING 12' WIDE, CONSTRUCTION JOINTS SHALL BE EVENLY SPACED ACROSS APRON AT INCREMENTS NO GREATER THAN 12'6". ADDITIONAL EXPANSION JOINTS SHALL BE USED IF APRON IS POURED IN SEPARATE POURS. FOR DRIVE APRONS EXCEEDING 25' WIDE, EXPANSION JOINTS SHALL BE EVENLY SPACED ACROSS APRON AT INCREMENTS NO GREATER THAN 25'. RESIDENTIAL DRIVE APRONS SIDEWALK AGAINST EXCEEDING 24' WIDE MUST BE BACK OF CURB APPROVED BY CITY ENGINEER. 4' MIN -WHEN MAILBOX IS TO BE INSTALLED 12' MINIMUM OR ALREADY IN PLACE, A MINIMUM BACK OF APRON 45' OF 4' CLEARANCE MUST BE MAINTAINED 24' MAXIMUM BACK OF APRON IF A RADIUS IS DESIRED, A 3' UNLESS APPROVED MIN. RADIUS MUST BE INSTALLED BY CITY ENGINEER - 1/2" EXPANSION JOINT SIDEWALK WITH 3' WIDE PARKWAY EXPANSION 11% 2% MAX JOINT 6" CFLOWLINE (1/2")SLOPE 2% MAX -12% MAX. CHANGE OF BREAKOVER GRADE RIGHT OF WAY 15% MAX. CHANGE AND GRADE BREAK MINIMUM 6" COMPACTED 1" MINUS OF VALLEY GRADE BASE ROCK NOT LESS THAN 95% STANDARD PROCTER TEST AT OPTIMUM MAINTAIN A MIN. 4' WIDE MOISTURE CONTENT, OR MINIMUM CLEARANCE TO MEET ADA DRIVEWAY 6" OF 1" CLEAN CRUSHED STONE. REQUIREMENTS - 1.5' 4' 8 SIDEWALK 5' MIN 10' SIDEWALK PARKWAY

CONSTRUCTION JOINT 1" DEEP AND GROOVED OR SAWCUT AT END OF TAPER. FOR DRIVE APRONS

NOTE:

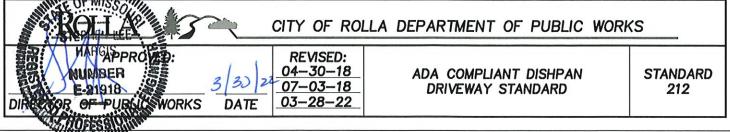
WHEN INSTALLING A NEW CONCRETE DRIVE AT EXISTING CONCRETE CURB AND GUTTER, THE ENTIRE CURB AND GUTTER SECTION IN THE AREA OF THE NEW DRIVE MUST BE REMOVED BY EITHER SAWCUTTING OR REMOVING TO AN EXISTING JOINT.

CONCRETE SHALL BE 6 BAG MIX (4,000 PSI) WITH SLUMP TEST LIMIT OF NOT LESS THAN 2 INCHES NOR MORE THAN 4 INCHES.

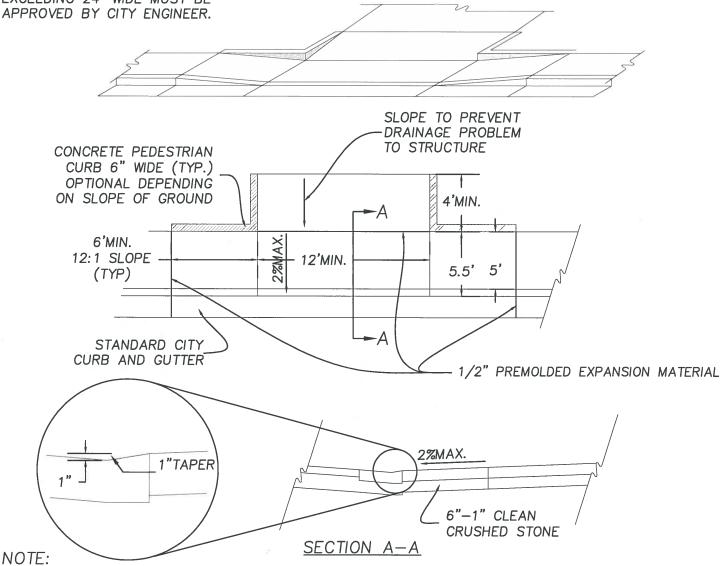
AN EXCAVATION PERMIT IS REQUIRED TO DIG IN PUBLIC RIGHT OF WAY. PERMIT SHALL BE OBTAINED FROM THE CITY OF ROLLA COMMUNITY DEVELOPMENT DEPARTMENT AT (573) 364-5333. AN INSPECTION IS REQUIRED BEFORE POURING ANY CONCRETE IN PUBLIC RIGHT OF WAY. CONTACT THE CITY OF ROLLA PUBLIC WORKS DEPARTMENT AT (573) 364-8659 FOR INSPECTION.

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4.5'



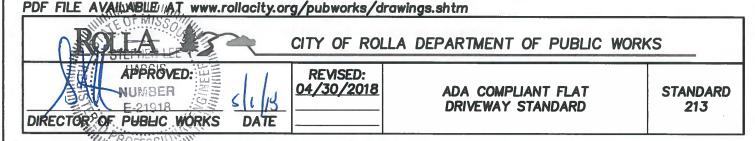
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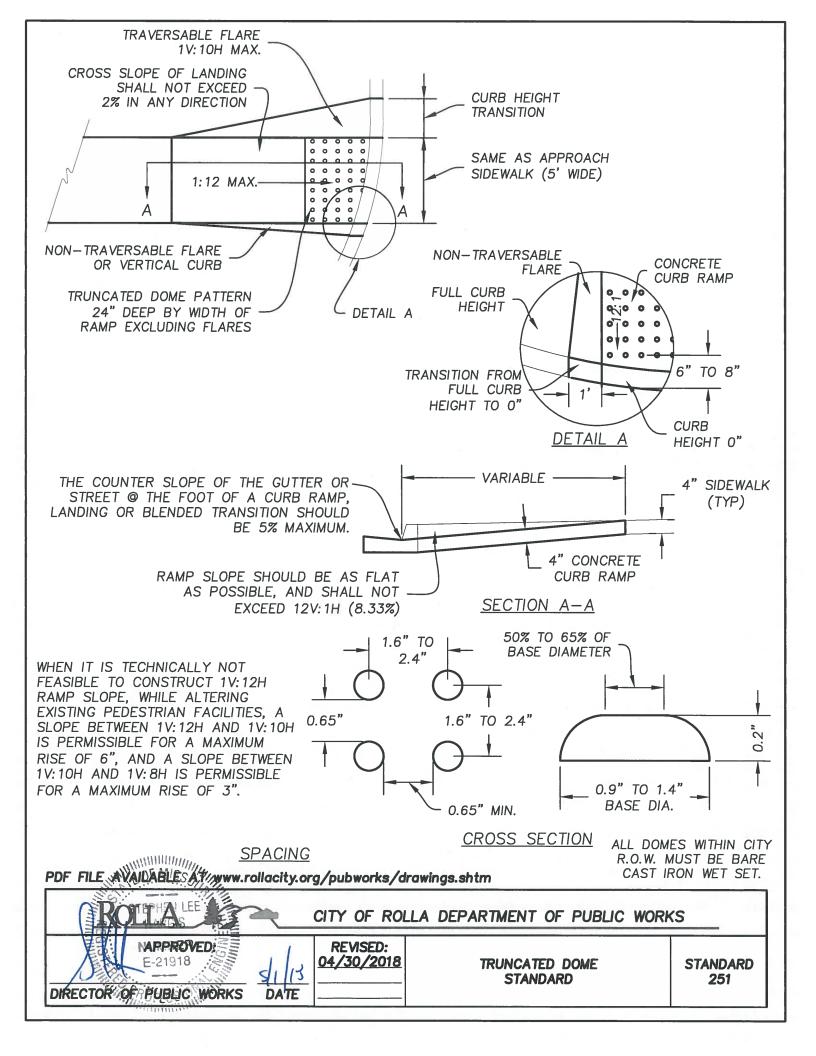


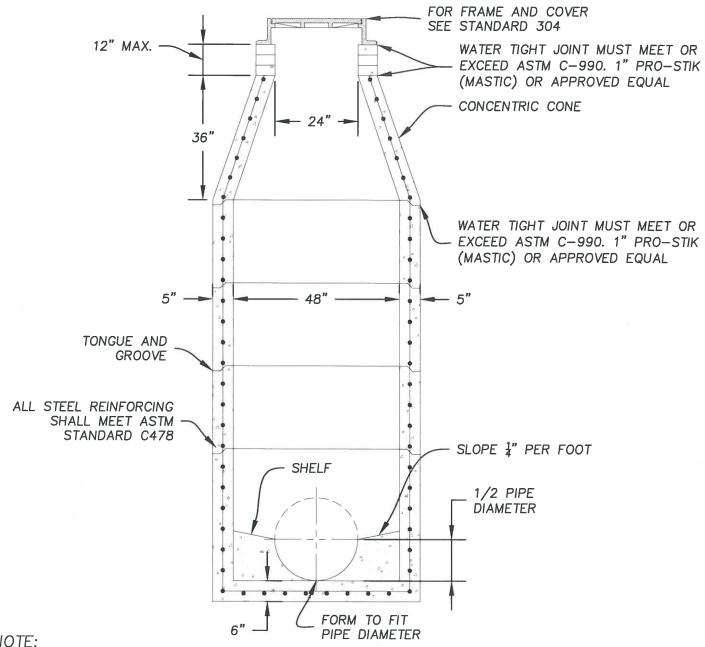
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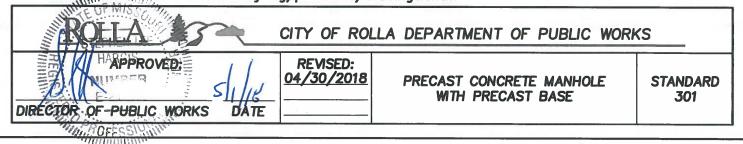


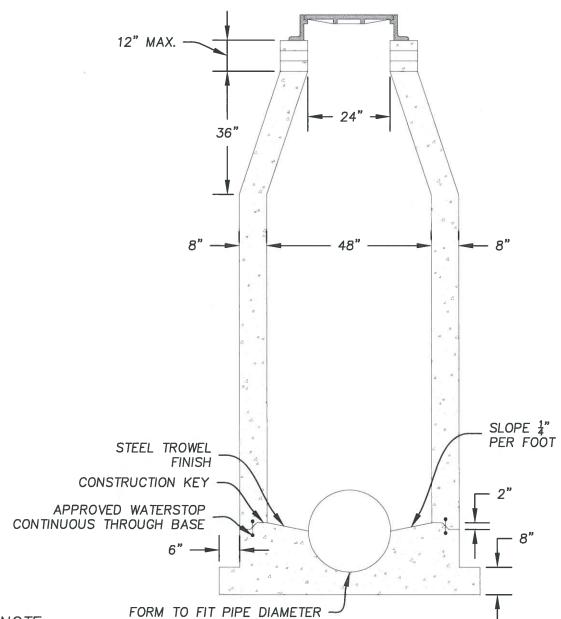
SEWER LATERALS TO BE INSTALLED IN MANHOLES ONLY IF PRE APPROVAL GIVEN BY CITY ENGINEER. A-LOCKS MUST BE PRECAST IN MANHOLE TO ALLOW 4" SCHEDULE 40 INSTALLATION AT SHELF ELEVATION.

BASE SHALL BE PLACED ON LEVEL COMPACTED OR UNDISTURBED SOIL. COMPACTION SHALL BE BY MECHANICAL TAMPER.

ENTIRE EXTERIOR SURFACE OF MANHOLE SHALL BE WATERPROOFED BEFORE BACKFILLING IS COMMENCED (SEE SPECIFICATIONS).

FOR ALTERNATE POURED IN PLACE MANHOLE BASE, SEE STANDARD 302.





MANHOLE SHALL BE RAISED 18 INCHES FROM NATURAL GROUND TO FRAME AND COVER WHEN LOCATED OUTSIDE OF IMPROVED AREA.

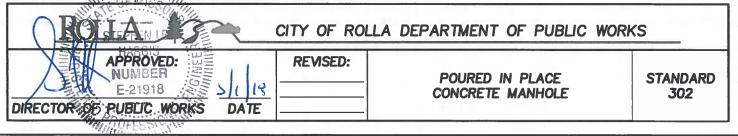
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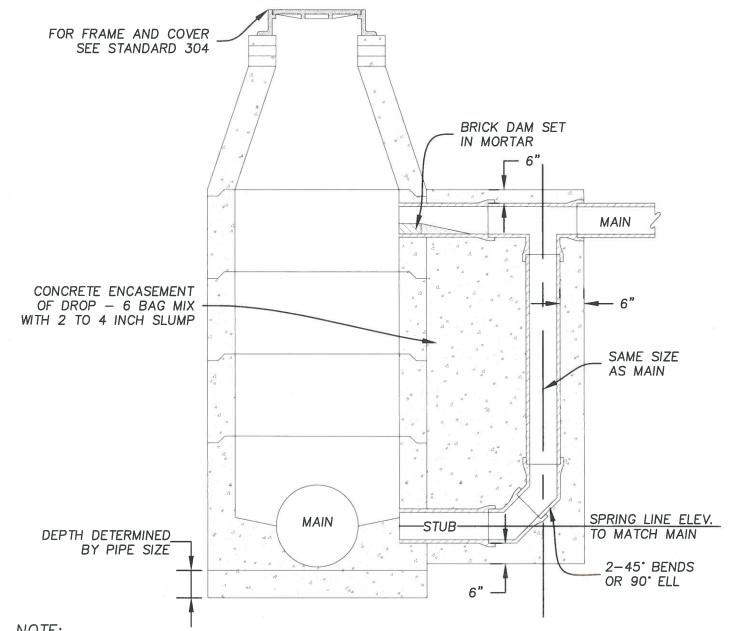
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FORMS SHALL BE USED WHEN CONSTRUCTING THE BASE.

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DROP MANHOLE SHALL BE REQUIRED WHEN DIFFERENCE IN ELEVATION OF INVERTS OF TWO INTERSECTING CONDUITS IS GREATER THAN 24 INCHES.

MAXIMUM PIPE SIZE SHALL BE 36 INCHES.

Metalli (IIII)

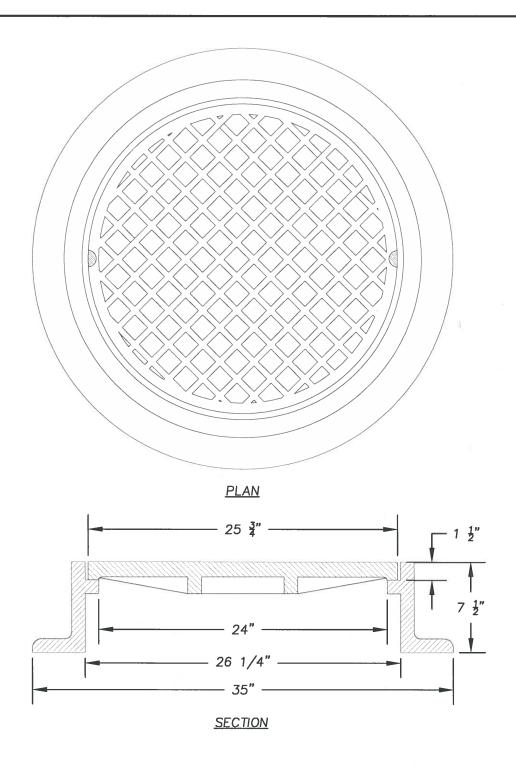
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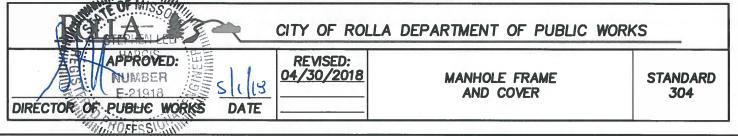
SEE MANHOLE STANDARD 301 FOR MANHOLE DETAILS.

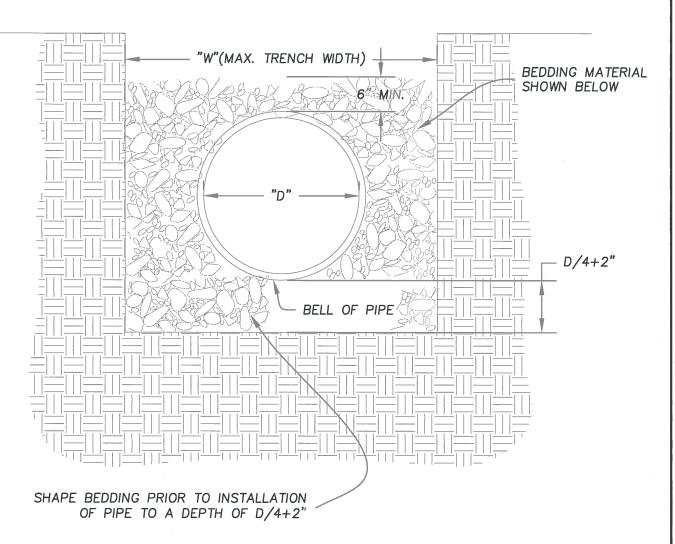
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ROLA CITY OF RO	LLA DEPARTMENT OF PUBLIC W	VORKS
APPROVED: NUMBER F-21918 REVISED: REVISED:	DROP MANHOLE	STANDARD 303



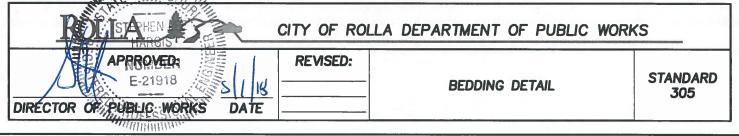
MANHOLE FRAME AND COVER SHALL BE "NEENAH FOUNDRY CO." R-1642, R-1643, EJIW 1045Z FRAME & 1040A COVER OR APPROVED EQUAL.

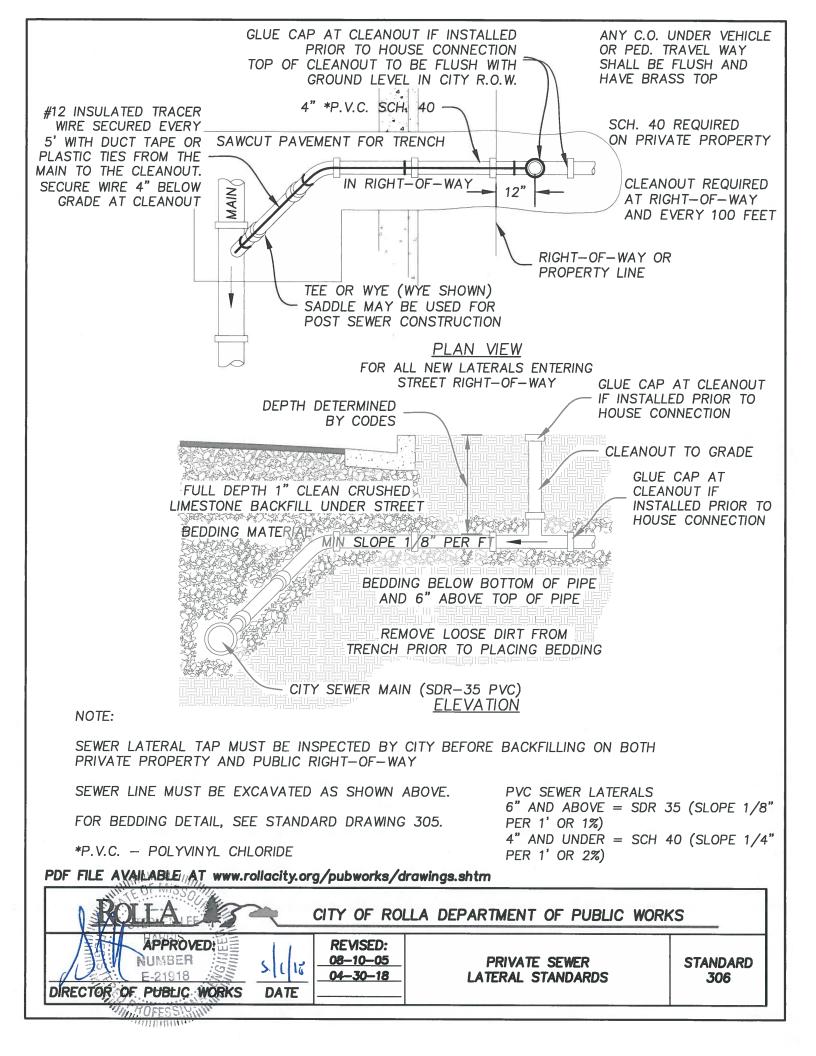


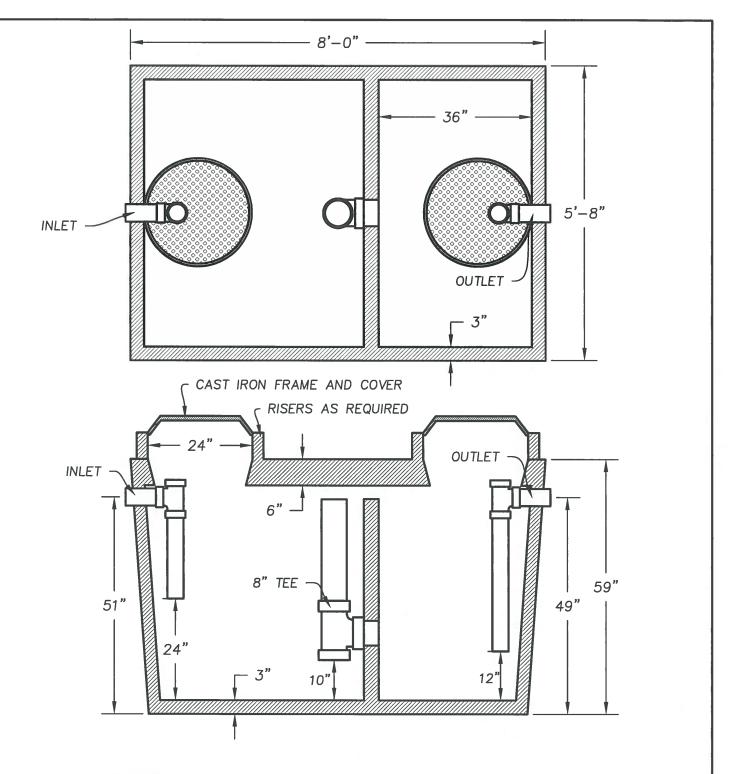


MAXIMUM TRENCH WIDTH						
SEWER SIZE "D"	MAXIMUM TRENCH WIDTH "W"					
8" 10" 12" 15" 18" 21" 24"	24" 24" 30" 30" 36" 42" 48"					

CRUSHED	LIMESTONE B	EDDING				
GRADATION IN PERCENTAGES BY WEIGHT PASSING SQUARE MESH SCREENS						
SCREEN SIZE	% PASSING	RETAINED				
1"	100%	_				
3/4"	95%	-				
NO. 4	_	95%				

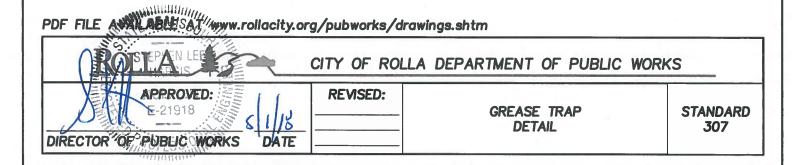


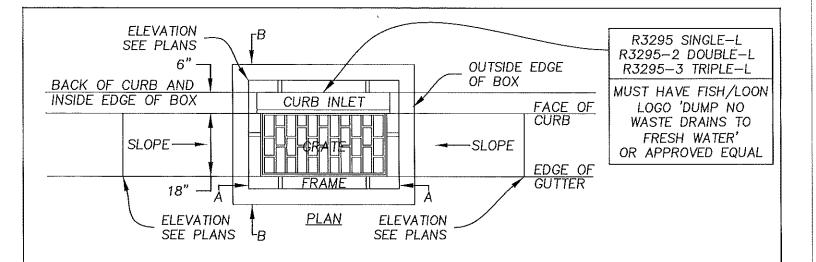


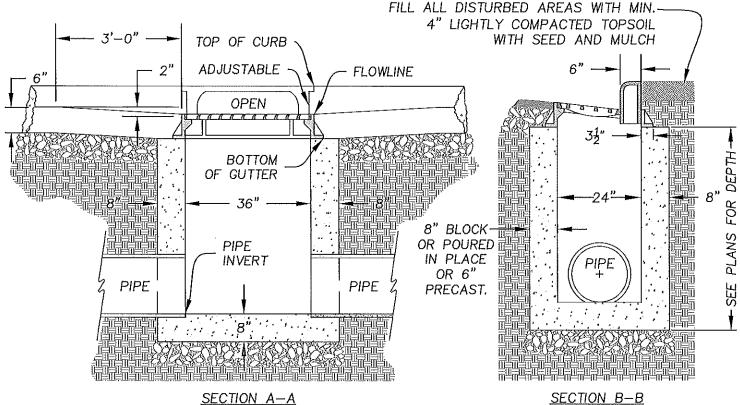


REINFORCEMENT:

TOP - 6x6x10x10 WWF, #4 REBAR 12" O.C. EW
SIDES - #4 BAR 12" DOWN, 12" AROUND CORNER, #4 BAR VERTICAL 12" O.C.
BOTTOM - 6x6x10x10 WWF, #3 BAR 12" O.C., L BARS 12" INTO WALL



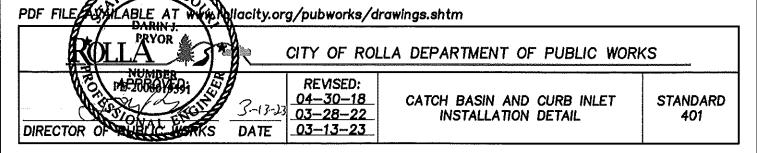


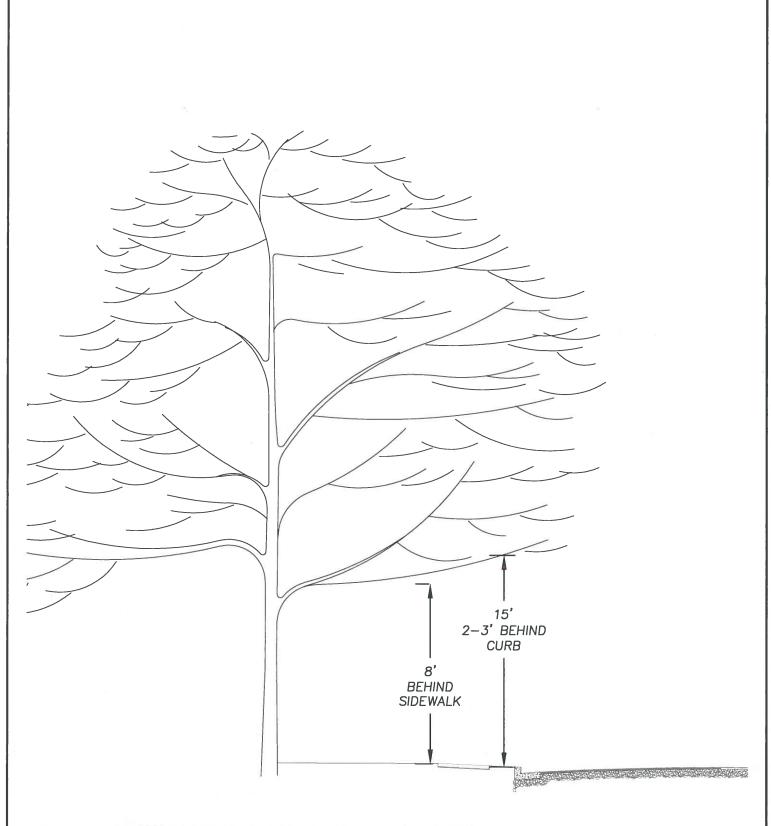


WALL CONSTRUCTION SHALL BE 8" POURED IN PLACE CONCRETE, 8"Tx8"Hx16"L CONCRETE BLOCK GROUTED SOLID, OR 6" PRECAST CONCRETE.

BASE CONSTRUCTION SHALL BE POURED IN PLACE CONCRETE FORMED TO DIMENSION SHOWN.

CONCRETE SHALL BE 6 BAG MIX (4,000 PSI) WITH MINIMUM SLUMP OF 1 INCH AND MAXIMUM SUMMINE INCHES.





ROLLA CITY OF ROLLA DEPARTMENT OF PUBLIC WORKS						
DIRECTOR OF PUBLIC-WORKS DATE	REVISED:	TREE TRIMMING DETAIL	STANDARD 501			
WE ROFESSION TO	2008.95					