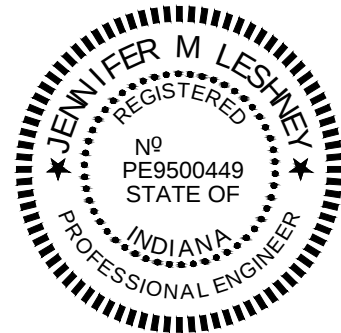


GENERAL NOTES

NOTE-GEN.DWG 7/2/98

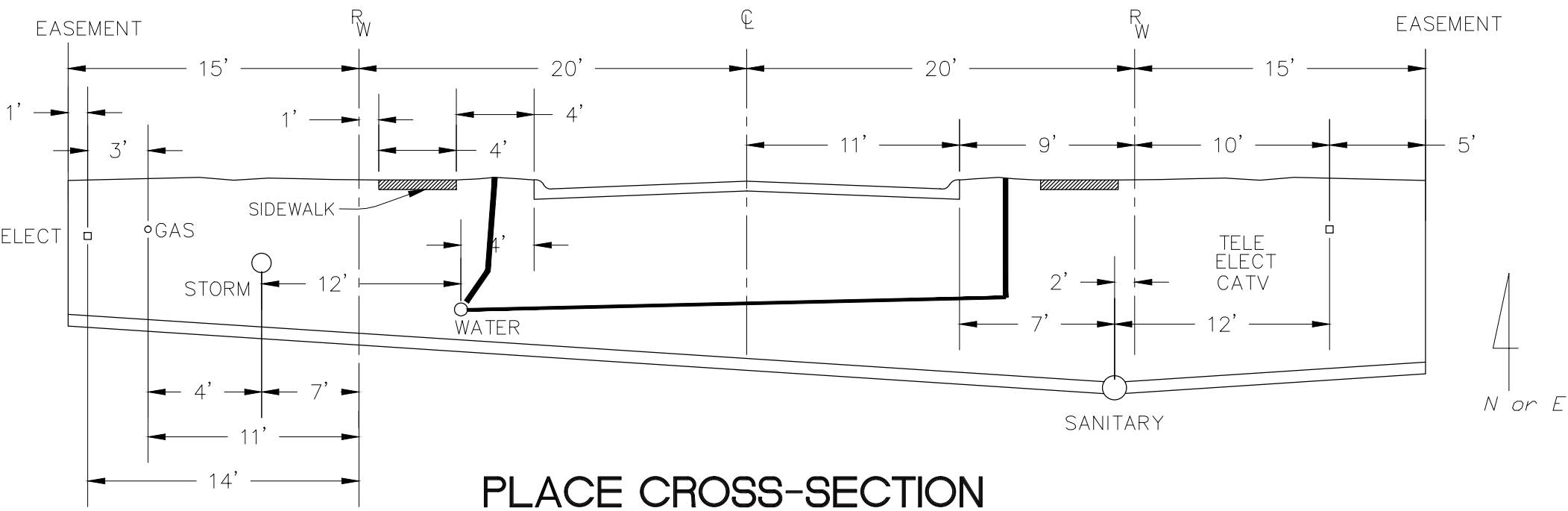
1. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES AT LEAST 24 HOURS PRIOR TO ANY CONSTRUCTION OR EXCAVATION. DURING CONSTRUCTION, ALL UTILITIES SHALL BE ADEQUATELY SUPPORTED TO ELIMINATE OR MINIMIZE DAMAGE.
2. ALL PERMITS AND EASEMENTS WILL BE OBTAINED BY THE OWNER WITH ANY REQUIRED INSURANCE OR BONDS TO BE PROVIDED BY THE CONTRACTOR PRIOR TO THE START OF WORK ON THE PROJECT.
3. ALL VERTICAL CONTROL SHALL BE ON NORTH AMERICAN VERTICAL DATUM (NAVD 1988). HORIZONTAL CONTROL SHALL BE ON NAD STATE PLANE COORDINATES.
4. WHEREVER PROPRIETARY EQUIPMENT IS SPECIFIED, "OR APPROVED EQUAL" IS IMPLIED. ALL PROPOSALS FOR SUBSTITUTION SHALL BE SUBMITTED TO THE CITY IN WRITING FOR THEIR APPROVAL.
5. ALL AREAS DISTURBED BY THE CONSTRUCTION PROCESS SHALL BE FERTILIZED AND SEEDED. ADEQUATE MULCHING SHALL BE PLACED AFTER SEEDING AND FERTILIZING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ADEQUATE GROWTH IS ESTABLISHED. SODDING WILL BE REQUIRED AS SHOWN ON THE PLANS.
6. TRENCHES UNDER PAVED AREAS (EXCLUDING SIDEWALKS) SHALL BE BACKFILLED WITH GRANULAR MATERIAL PER INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", LATEST EDITION, SECTION 211, AND COMPACTED IN LIFTS. GRANULAR MATERIAL TO EXTEND FIVE FEET BEYOND THE LIMITS OF THE PAVED AREA WITH A 1:1 SLOPE TO THE BOTTOM OF THE TRENCH. FLOWABLE MORTAR PER SECTION 213 OF INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", LATEST EDITION, MAY BE USED IN LIEU OF GRANULAR MATERIAL, WITH PRIOR APPROVAL OF THE CITY ENGINEER'S OFFICE.
7. INSTALLATION OF OR PROVISIONS FOR THE INSTALLATION OF ALL UNDERGROUND UTILITIES INCLUDING SERVICE LATERALS TO BE PLACED UNDER THE PAVEMENTS SHALL BE ESTABLISHED PRIOR TO THE CONSTRUCTION OF THE PAVEMENTS
8. CONTRACTOR SHALL CONTACT THE CITY IF ANY DAMAGE TO CITY UTILITIES OCCURS. DAMAGE TO CITY'S WATER MAIN OR CITY'S SEWERS BY CONTRACTORS WILL BE REPAIRED BY CITY'S WATER WORKS DEPT. OR SEWER DEPT. WITH ALL COSTS OF REPAIR TO BE PAID BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE CITY. OTHER DAMAGED UTILITIES SHALL BE REPAIRED IN ACCORDANCE WITH THE AFFECTED UTILITY'S REPAIR POLICY.
9. 18" VERTICAL SEPARATION AND 10'- 0" HORIZONTAL SEPARATION IS TO BE MAINTAINED BETWEEN WATER MAINS, HYDRANTS AND SEWERS (STORM AND SANITARY).
10. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SAFE CONSTRUCTION SITE AND FOR KEEPING SURROUNDING STREETS NEAT AND CLEAN. THE CONTRACTOR WILL PROVIDE ALL TRAFFIC CONTROL REQUIRED ON PUBLIC WAYS NEAR THE PROJECT.
11. THE CONSTRUCTION WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT.
12. THE CONTRACTOR WILL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCIES AT LEAST 48 HOURS PRIOR TO STARTING OR RESUMING WORK ON A PROJECT.
13. THE CONTRACTOR WILL PROVIDE SAFE ACCESS TO THE CONSTRUCTION SITE FOR ALL INSPECTORS AND WILL PROVIDE MATERIAL SAMPLES FOR TESTING.
14. INFORMATION REQUIRED FOR PREPARING "AS-BUILT" DRAWINGS MUST BE RECORDED PRIOR TO THE BACKFILLING OF THE UNDERGROUND FACILITY.
15. TOP OF MANHOLE FRAMES TO BE SET AT PROPOSED YARD OR SIDEWALK GRADE WHEN LOCATED IN FRONT YARD AREA OF LOT OR RIGHT-OF-WAY.
16. ALL SIGN, MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL COMPLY WITH INDOT STANDARDS AND IMUTCD.
17. UTILITY PLACEMENT FOR OTHER THAN SINGLE FAMILY RESIDENCES, CONTACT CITY ENGINEERS OFFICE FOR REQUIREMENTS.
18. SIDEWALK WIDTH SHALL BE IN ACCORDANCE WITH THE CURRENT SUBDIVISION ORDINANCE
19. SIDEWALK PLACEMENT SHALL BE REFERENCED FROM THE RIGHT OF WAY



PROJECT NAME	PROJECT SHEET NUMBER
	of

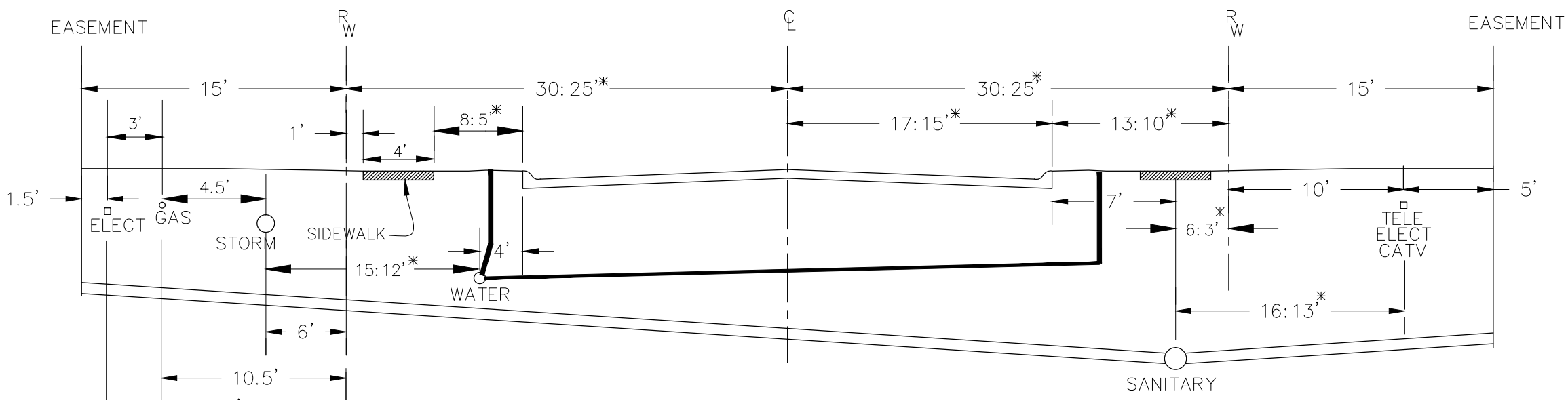
CITY OF LAFAYETTE

(800) 382-5544	HOLEY MOLEY	20 NORTH SIXTH STREET LAFAYETTE, INDIANA 47901	DATE MAY 2005
(765) 807-1050	CITY ENGINEER		GENERAL NOTES AND GUIDELINES FOR UTILITY LOCATIONS
(765) 807-1800	WATER POLLUTION CONTROL-SEWERS		
(765) 807-1700	WATER WORKS		
(765) 807-1600	FIRE DEPT.		
(765) 807-1210	POLICE DEPT.		



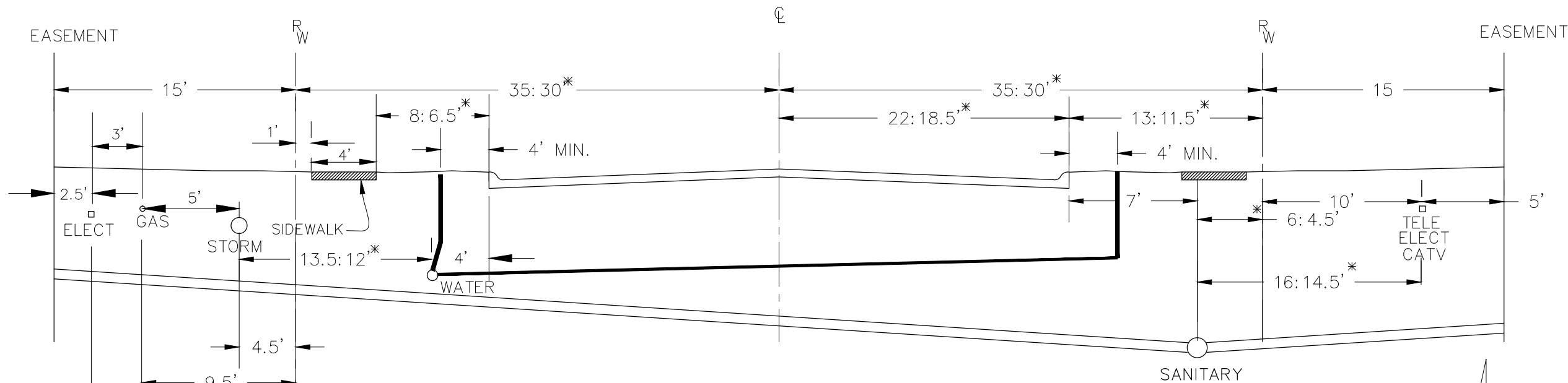
PLACE CROSS-SECTION

NOT TO SCALE
X-SECS.DWG 7/2/98



LOCAL CROSS-SECTION

NOT TO SCALE
X-SECS.DWG 7/2/98

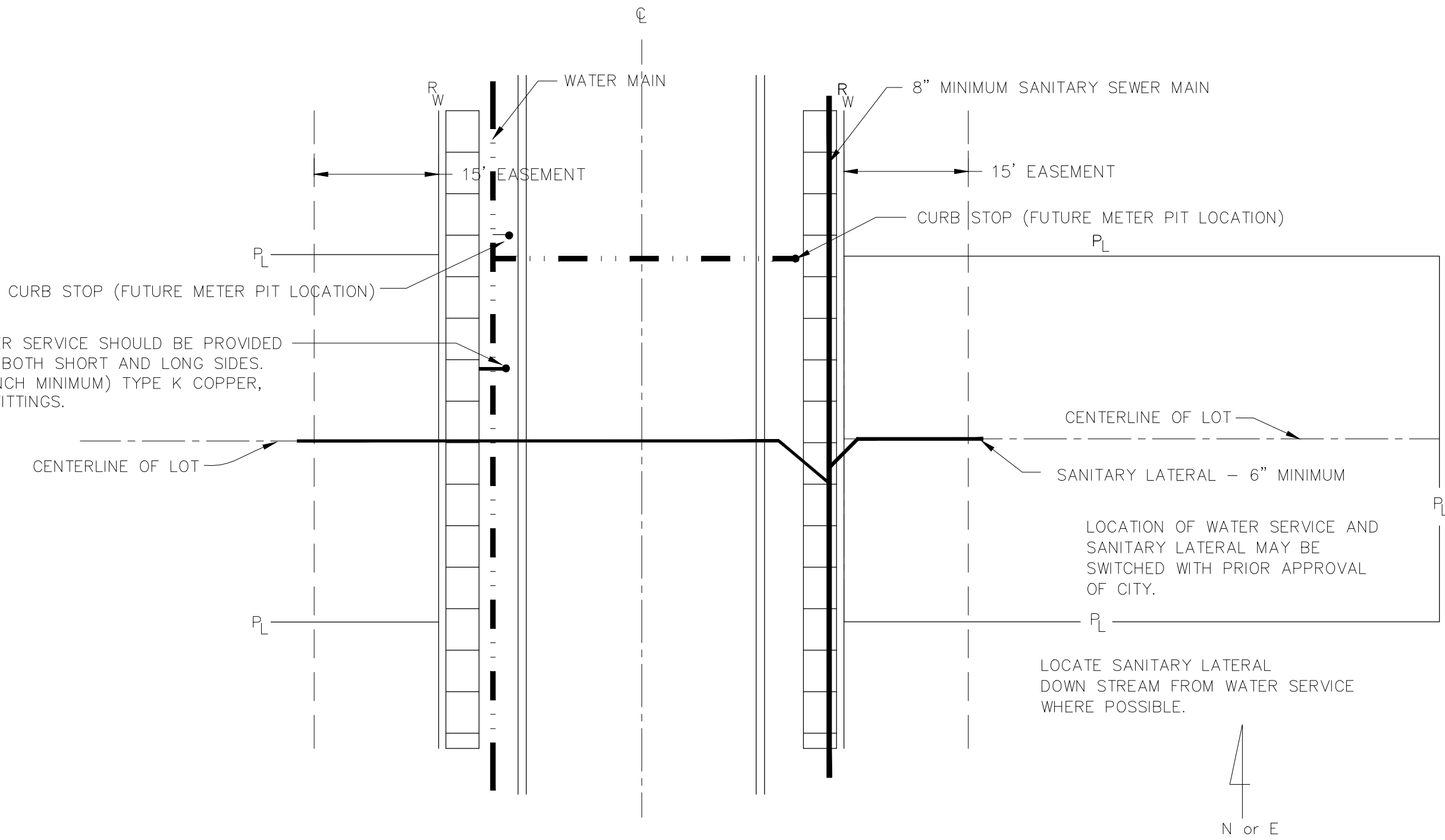


COLLECTOR CROSS-SECTION

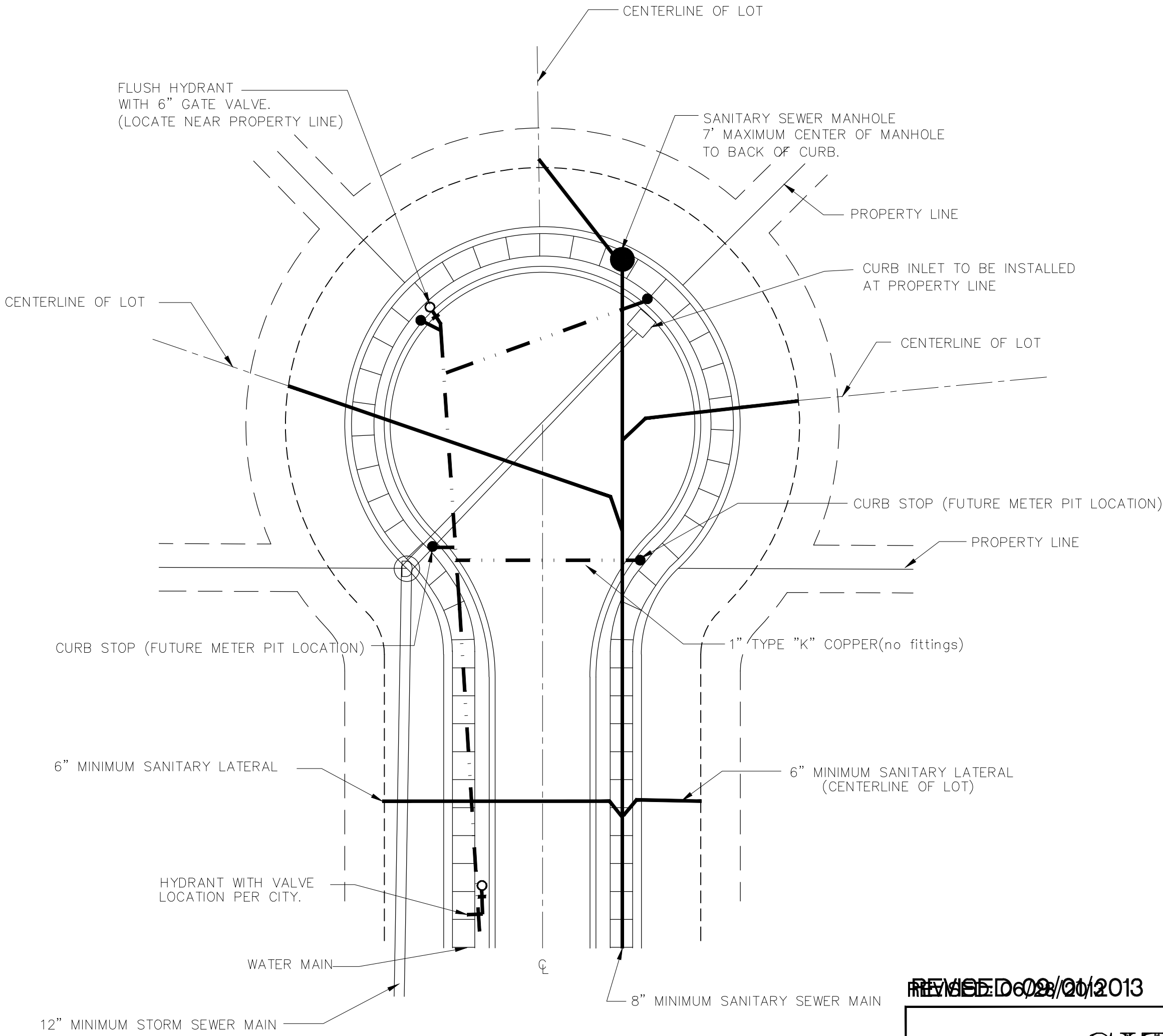
NOT TO SCALE
X-SECS.DWG 7/2/98

USE NORTH AND EAST FOR DIRECTIONAL CONTROL.
GUIDELINES FOR UTILITY LOCATIONS WITHIN THE
ROAD RIGHT-OF-WAY AND/OR UTILITY EASEMENTS.

* = NONRESIDENTIAL REQUIREMENT;RESIDENTIAL REQUIREMENT



USE NORTH AND EAST FOR DIRECTIONAL CONTROL.
GUIDELINES FOR UTILITY LOCATIONS WITHIN THE
ROAD RIGHT-OF-WAY AND/OR UTILITY EASEMENTS.



USE NORTH AND EAST FOR DIRECTIONAL CONTROL.
GUIDELINES FOR UTILITY LOCATIONS WITHIN THE
ROAD RIGHT-OF-WAY AND/OR UTILITY EASEMENTS.

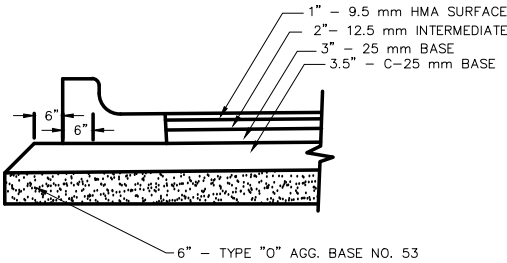
UTILITY LOCATIONS

NOT TO SCALE
X-SECS.DWG 7/2/98

PAVEMENT CONSTRUCTION NOTES

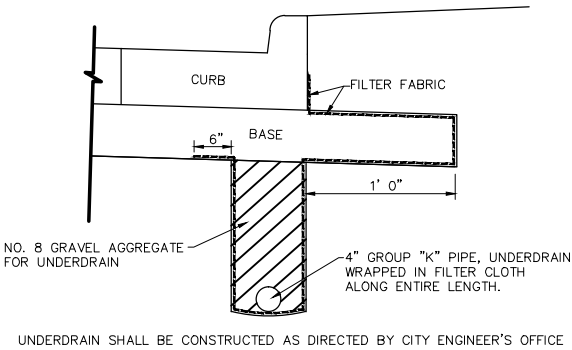
NOTE-SHOWING 7/2/98

1. INSTALLATION OF OR PROVISIONS FOR THE INSTALLATION OF ALL UNDERGROUND UTILITIES, INCLUDING SERVICE LATERALS, TO BE PLACED UNDER THE PAVEMENTS SHALL BE ESTABLISHED PRIOR TO THE CONSTRUCTION OF THE PAVEMENTS.
2. ALL PAVEMENT, CURBS, SIDEWALKS, RAMPS, ETC. SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND IN CLOSE CONFORMANCE WITH THE LINES, GRADES, THICKNESSES AND TYPICAL CROSS SECTIONS SHOWN ON THE PLANS. MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH DESIGNATED SECTIONS OF THE INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", LATEST EDITION.
3. SUBBASE AND SUB GRADE FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698.
4. ALL PORTLAND CEMENT CONCRETE PAVEMENT STREETS SHALL HAVE JOINT MAINTENANCE CONDUCTED BEFORE THE CITY ACCEPTS OWNERSHIP OF STREET (I.E. CRACK SEAL OR OTHER APPROVED MEASURE) WITHIN THE THREE YEAR MAINTENANCE PERIOD.
5. WHEREVER RIGID PAVEMENT IS TO BE USED THE CONTRACTOR SHALL SUBMIT A DETAILED PAVING PLAN TO THE CITY ENGINEER. THE PAVING PLAN SHALL SHOW THE LOCATION AND TYPE OF JOINTING TO BE USED IN THE CONSTRUCTION. THE LOCATION AND TYPE OF JOINTING SHALL BE IN ACCORDANCE WITH THE CITY STANDARDS AND GUIDELINES.
6. WHENEVER SUB GRADE STABILIZATION IS TO BE USED THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN DETAILING THE APPLICATION METHOD. THE PLAN MUST COMPLY WITH THE STATE OF INDIANA ENVIRONMENTAL REGULATIONS AND STANDARDS AND BE APPROVED BY THE CITY ENGINEER'S OFFICE.
7. RECYCLED CONCRETE MAY BE USED AS # 53 AGG. BASE ON A CASE BY CASE BASIS UPON PRIOR WRITTEN APPROVAL OF THE CITY.
8. WHEREVER PROPRIETARY EQUIPMENT IS SPECIFIED, "OR APPROVED EQUAL" IS IMPLIED. ALL PROPOSALS FOR SUBSTITUTION SHALL BE SUBMITTED TO THE CITY IN WRITING FOR THEIR APPROVAL.



(INTERSECTION OF LOCAL, PLACE OR COLLECTOR WITH ARTERIAL)
ARTERIAL APPROACH PAVEMENT SECTION

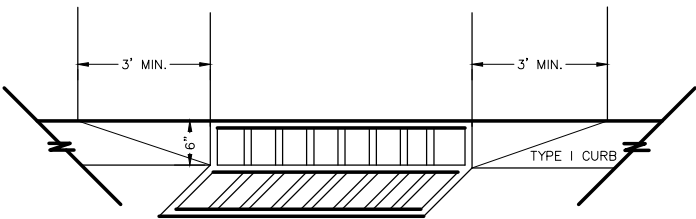
NOT TO SCALE
CURREDDING 4/2/98



UNDERDRAIN SHALL BE CONSTRUCTED AS DIRECTED BY CITY ENGINEER'S OFFICE

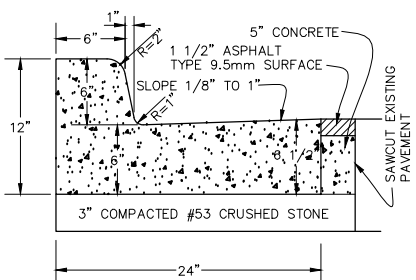
UNDERDRAIN DETAIL

NOT TO SCALE

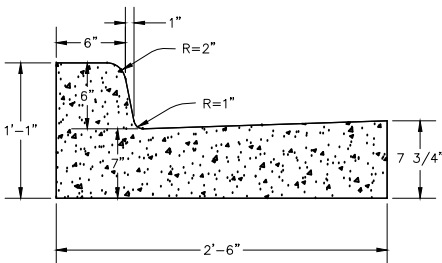


CURB TRANSITION DETAIL

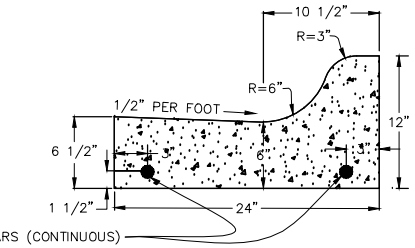
NOT TO SCALE
CURSTRANDG 7/2/98



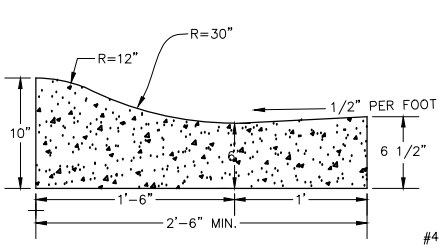
COMBINED CONC. CURB AND GUTTER
NOT TO SCALE
REV. 2/18/2005
FOR RECONSTRUCTION IN EXISTING NEIGHBORHOODS



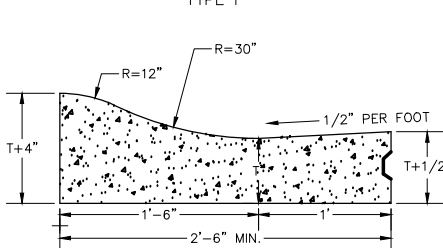
COMBINED CONCRETE CURB AND GUTTER
NOT TO SCALE
REV. 2/18/2005
TYPE III



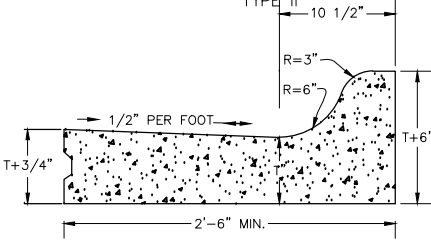
COMBINED CONCRETE CURB AND GUTTER
TYPE II



COMBINED CONCRETE CURB AND GUTTER
TYPE I



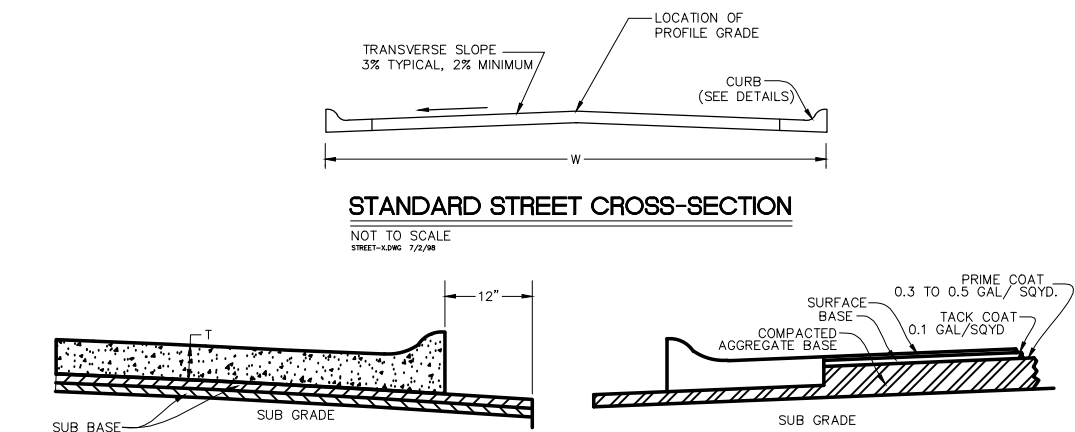
INTEGRAL CONCRETE CURB
TYPE I



INTEGRAL CONCRETE CURB
TYPE II

CURB SECTIONS

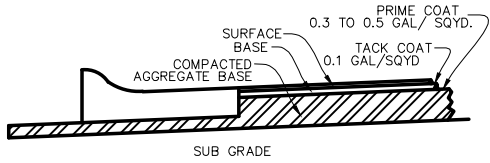
NOT TO SCALE
CURB.DWG 7/2/98



STANDARD STREET CROSS-SECTION

NOT TO SCALE
STREET-XLONG 7/2/98

CONCRETE RIGID PAVEMENT SECTION
NOT TO SCALE



ASPHALT PAVEMENT SECTION

NOT TO SCALE
BASE TO BE CONSTRUCTED PRIOR TO CONSTRUCTION OF CURB AND GUTTER

CLASS OF STREET ⁽¹⁾	CURB ⁽²⁾	SUB GRADE THICKNESS	CONCRETE PAVEMENT ⁽⁴⁾		ASPHALT PAVEMENT ⁽³⁾		
			T (PVT THICKNESS)	TRANSVERSE JOINT SPACING	9.5 mm (HMA SURFACE)	25 mm (BASE)	#53 (AGG. BASE)
PRIMARY ARTERIAL	TYPE III	TO BE DETERMINED BY CITY	8"	---	(TO BE DETERMINED BY THE CITY)		
SECONDARY ARTERIAL	TYPE III	TO BE DETERMINED BY CITY	8"	---	(TO BE DETERMINED BY THE CITY)		
COLLECTOR	TYPE I (RESIDENTIAL) TYPE III (NONRESIDENTIAL)	6"	6"	14'	1.5"	4.5"	12" COMPACTED (2 LIFTS)
LOCAL AND PLACE	TYPE I (RESIDENTIAL) TYPE II (NONRESIDENTIAL)	6"	6"	14'	1.5"	4.5"	12" COMPACTED (2 LIFTS)

NOTES:

- (1) AS DEFINED BY THE SUBDIVISION ORDINANCE OF TIPPECANOE COUNTY.
- (2) SEE SHEET 11 FOR CURB INLET DETAILS. PERIMETER DRAIN SHALL EXTEND 50 FT. EACH DIRECTION FROM THE CURB INLET.
- (3) 8" OF LIME TREATED SUBBASE CAN BE SUBSTITUTED FOR 6" OF #53 AGGREGATE BASE UNDER ASPHALT. LIME TREATMENT CAN BE USED IN AREAS OF NEW CONSTRUCTION ONLY AND WITH PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER'S OFFICE.
- (4) SUB BASE SHALL BE 6" OF #53'S.
- (5) SUB BASE FOR CONCRETE PAVEMENT WHERE UNDERDRAINS ARE REQUIRED SHALL BE 3" OF #8'S OR #43'S FOR DRAINAGE AND 4" OF #53'S FOR SEPARATION.
- (6) ALTERNATE PAVEMENT DESIGNS MAY BE SUBMITTED TO CITY ENGINEER'S OFFICE. DESIGNS MUST BE APPROVED BY THE CITY ENGINEER.

TYPICAL PAVEMENT SECTIONS AND NOTES

NOT TO SCALE
PMT-SECTG 7/2/98

QUALITY CONTROL REQUIREMENTS

1. ALL TESTING SHALL BE IN ACCORDANCE WITH THE LATEST INDOT STANDARD SPECIFICATIONS. ALL TESTS WHERE PRACTICABLE SHALL BE WITNESSED BY THE CITY. CONTRACTOR SHALL COORDINATE TESTING SCHEDULE WITH THE CITY ENGINEER'S OFFICE. ALL TEST RESULTS SHALL BE SUBMITTED TO THE CITY ENGINEER'S OFFICE WITHIN 48 HOURS OF THE COMPLETION OF EACH TEST AND PRIOR TO PLACING ANY MATERIAL ON THE SUBBASE/SUBGRADE. THE FREQUENCY OF TESTING WHERE SHOWN IS A MINIMUM. ADDITIONAL TESTING MAY BE REQUIRED AT THE DIRECTION OF THE PUBLIC WORKS INSPECTOR.
2. THE DEVELOPER/CONTRACTOR SHALL RETAIN AN INDEPENDENT TESTING FIRM (UNLESS OTHERWISE NOTED) TO PERFORM THE FOLLOWING TESTING:

A. SUBGRADE:

1. COMPACTION (FILL SECTIONS): 1 TEST PER LIFT PER 500 LF OF SINGLE LANE WIDTH.

2. ADEQUACY OF SUBGRADES SHALL BE DETERMINED SOLELY BY THE PUBLIC WORKS INSPECTOR. A PROOFROLL SHALL BE PERFORMED ON ALL STREET SUB GRADE PRIOR TO PLACING STONE AND INSTALLING CURB. SUBGRADE SHALL MEET INDOT SPECIFICATION SECTION 207, EXCEPT THAT ONLY THE TOP 6" OF SUBGRADE SHALL BE TESTED FOR 100% STANDARD COMPACTION. PROOFROLLING THAT COMPLIES WITH INDOT SPECIFICATION 203.26 IS ALSO REQUIRED, EXCEPT THAT PROOFROLLING MAY ALSO BE ACCOMPLISHED USING A FULLY LOADED TANDEM OR TRI-AXLE DUMP TRUCK IN LIEU OF THE SPECIFIED RUBBER TIRE ROLLER. ROLLER MARKS LESS THAN 1/2" ARE ACCEPTABLE, AS ARE DEFLECTIONS LESS THAN 1/2" OVER THE LENGTH OF THE ROLLER OR TRUCK. IF THE SUBGRADE DOES NOT PASS THESE SPECIFICATIONS, THEN SUBGRADE TREATMENTS, INCLUDING CHEMICAL MODIFICATION PERFORMED ACCORDING TO INDOT SPECIFICATIONS 207 AND 215 MAY BE DONE IN LIEU OF THE ABOVE DENSITY AND PROOFROLL SPECIFICATIONS.

TANDEM DUMP TRUCK - GROSS WEIGHT 48,000 #
TRI-AXLE DUMP TRUCK - GROSS WEIGHT 68,000 #

B. AGGREGATE SUBBASE:

1. GRADUATION - 1 TEST PER 1000 TONS OR 1 PER WEEK

2. COMPACTION - 1 TEST PER 500 LF OF SINGLE LANE WIDTH

C. BITUMINOUS MATERIAL (BASE, INTERMEDIATE AND SURFACE):

1. ASPHALT EXTRACTION - 1 TEST PER EACH TYPE OF MATERIAL USED PER JOB TEST TO INCLUDE GRADATION, ASPHALT CONTENT, CRUSHED PARTICLE DETERMINATION AND DELETERIOUS DETERMINATION. TEST SHALL BE CERTIFIED PER INDOT CERTIFICATION REQUIREMENTS.

2. DENSITY- THE TARGET DENSITY SHALL BE DETERMINED FROM A TEST STRIP CONSTRUCTED PER INDOT SPECIFICATIONS. THE TARGET DENSITY SHALL NOT BE LESS THAN 98% OF THE UNIT WEIGHT AT THE OPTIMUM BINDER CONTENT NDES AS DETERMINED BY THE MIX DESIGN. THE DENSITY OF EACH SUBLOT WILL BE THE AVERAGE OF FIVE TESTS. A SUBLOT SHALL BE 1000 LF OF SINGLE LANE WIDTH. BREAKDOWN ROLLER SHALL BE MINIMUM 10 TON OR APPROVED VIBRATORY.

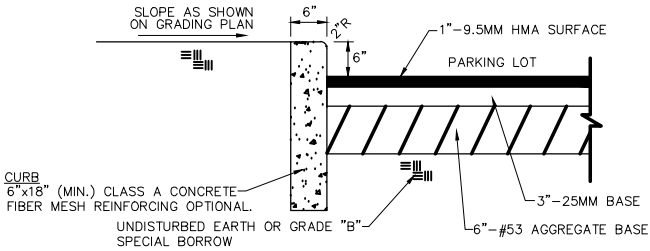
D. CONCRETE FOR CURBING AND DRIVEWAYS:

1. AIR AND SLUMP - 1 TEST PER DAY FOR POURS OVER 20 CY OR MINIMUM 1 PER WEEK.

2. COMPRESSIVE STRENGTH TESTS - AN ADEQUATE NUMBER OF CONCRETE TEST CYLINDERS SHOULD BE TAKEN TO ENSURE THAT PSI REQUIREMENTS OF THE CONCRETE SECTION ARE MET. A MINIMUM OF ONE SET OF TEST CYLINDERS PER WEEK SHALL PASS THESE REQUIREMENTS.

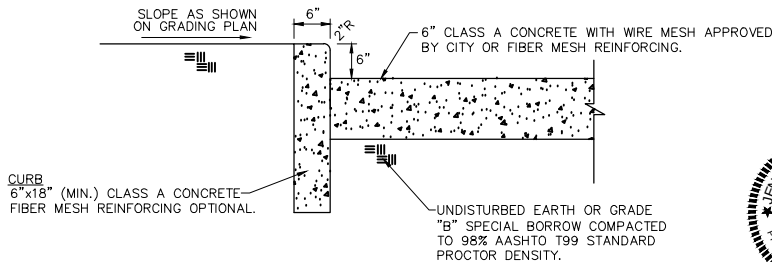
3. CONCRETE STRENGTH SHALL BE A MINIMUM 4000 PSI BEFORE OPEN TO TRAFFIC.

E. CONCRETE FOR PAVEMENT - FREQUENCY OF TESTS SHALL BE IN ACCORDANCE WITH THE INDOT FREQUENCY TESTING MANUAL AS SET OUT IN THE SECTION TITLED "CONCRETE PAVEMENT AND STRUCTURE MATERIAL".



TYPICAL PARKING LOT AND CURB SECTION - ASPHALT

NOT TO SCALE

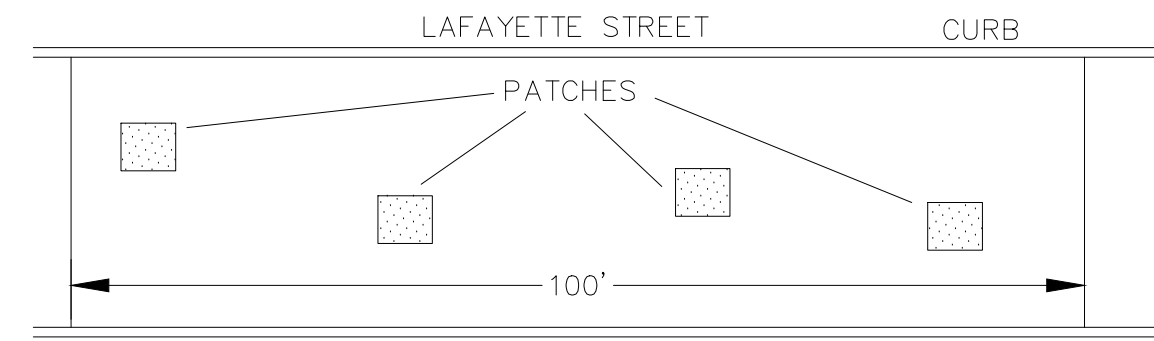


TYPICAL PARKING LOT AND CURB SECTION - CONCRETE

NOT TO SCALE

REVISED 09/01/2013

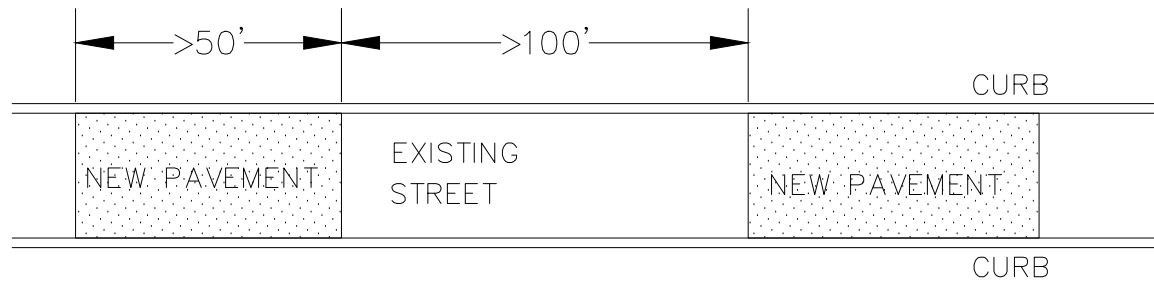
PROJECT NAME		PROJECT SHEET NUMBER	
		of	
CITY OF LAFAYETTE			
(800) 382-5544 HOLEY MOLEY		20 NORTH SIXTH STREET LAFAYETTE, INDIANA 47901	DATE MAY 2005
(765) 807-1050 CITY ENGINEER			SHEET 3 OF 12
(765) 807-1800 WATER POLLUTION CONTROL-SEWERS			
(765) 807-1700 WATER WORKS			
(765) 807-1600 FIRE DEPT.			
(765) 807-1210 POLICE DEPT.			
		PAVEMENT AND CURB	
		TYPICAL SECTIONS AND NOTES	



MULTIPLE CUTS SHALL BE DEFINED AS CITY STREET OR ALLEY, ASPHALT OR CONCRETE, THAT HAVE THE FOLLOWING CONDITIONS:

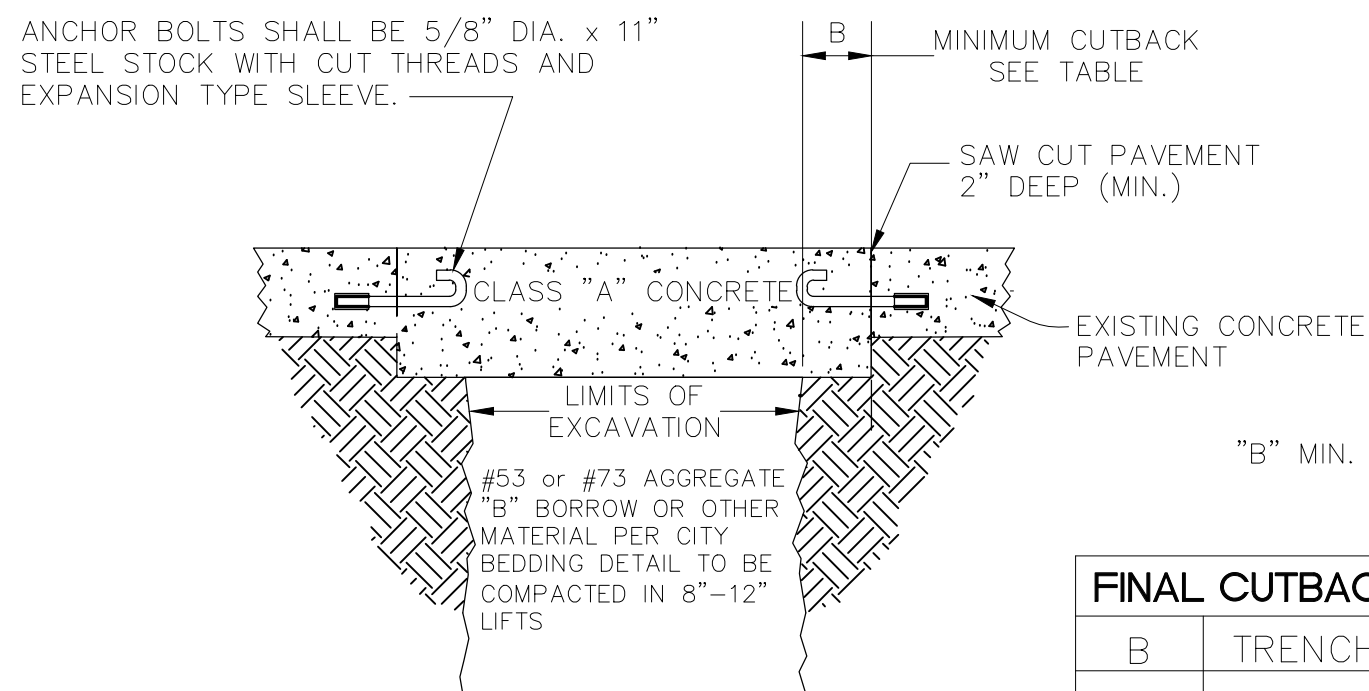
- FOUR (4) OR MORE PATCHES PER 100 LINEAL FEET OF ROADWAY WITHIN A ONE (1) YEAR PERIOD OF TIME, AND
- AREA CUT IS GREATER THAN 64 S.F. IN 100 LINEAL FEET OF ROADWAY WITHIN A ONE (1) YEAR PERIOD OF TIME.

MULTIPLE CUTS TO BE RESTORED AS FOLLOWS:



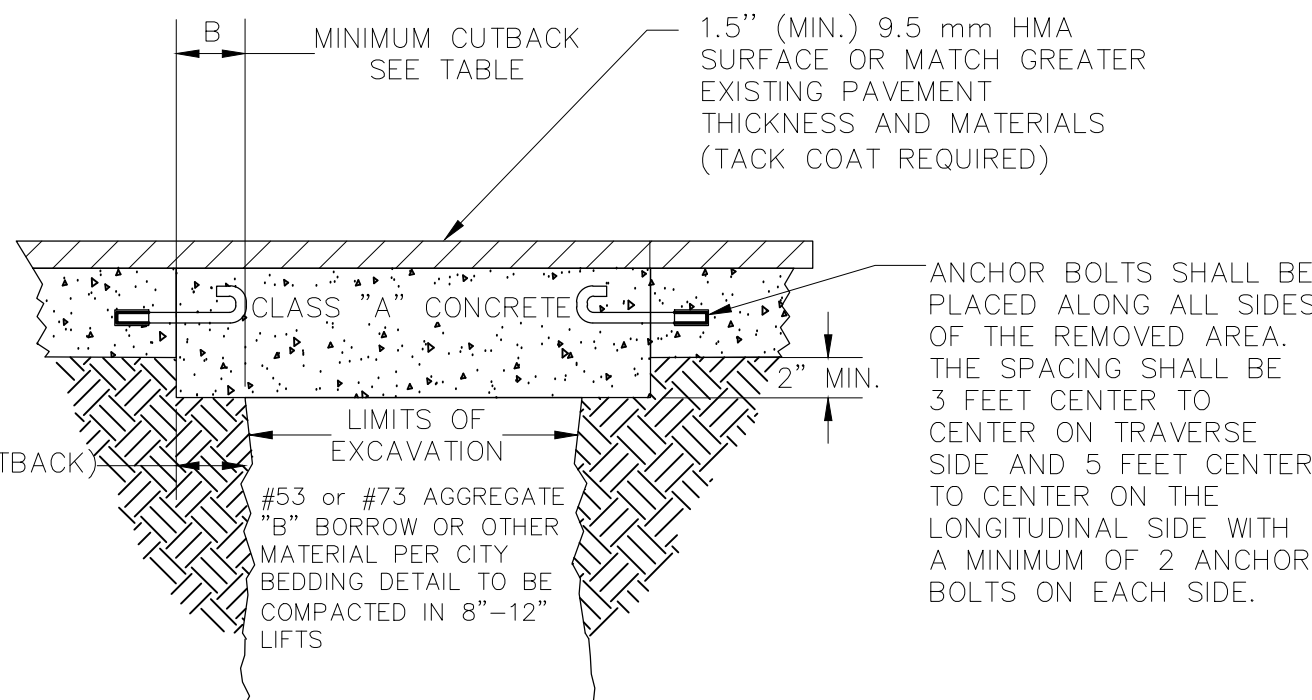
- NEW PAVEMENT AREAS SHALL NOT HAVE GAPS OF LESS THAN 100 FEET. MINIMUM LENGTH OF NEW PAVEMENT SHALL BE 50 FEET.
- THE CITY ENGINEER SHALL HAVE THE AUTHORITY TO NEGOTIATE A PAYMENT FROM THE UTILITY COMPANY IN LIEU OF RESURFACING. THE PAYMENT SHALL BE BASED UPON THE UNIT PRICE FOR ASPHALT FROM THE CITY'S MOST RECENT RESURFACE CONTRACT AND THE AREA THAT WOULD HAVE TO BE RESURFACED ACCORDING TO THIS STANDARD. THE PAYMENT SHALL BE PRORATED ACCORDING TO THE CITY'S RESURFACING SCHEDULE AT A RATE OF 10% PER YEAR. FOR EXAMPLE, IF THE STREET IS SCHEDULED TO BE RESURFACED IN ONE YEAR, ONLY 10% WILL BE CHARGED, IN 2 YEARS ONLY 20%, ETC. THIS PAYMENT OPTION SHALL NOT APPLY TO RECENTLY RESURFACED STREETS.

CITY OF LAFAYETTE METHOD FOR REPLACING MULTIPLE CUTS

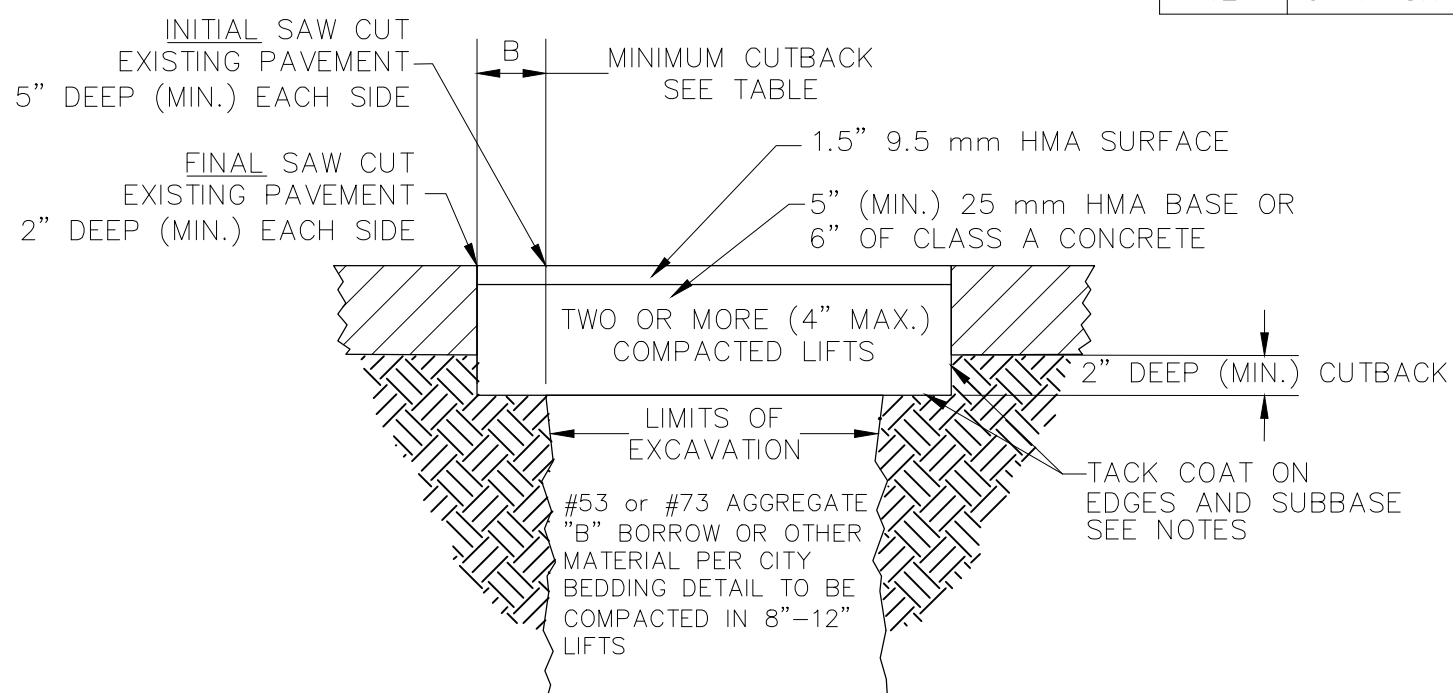


CONCRETE PAVEMENT REPAIR

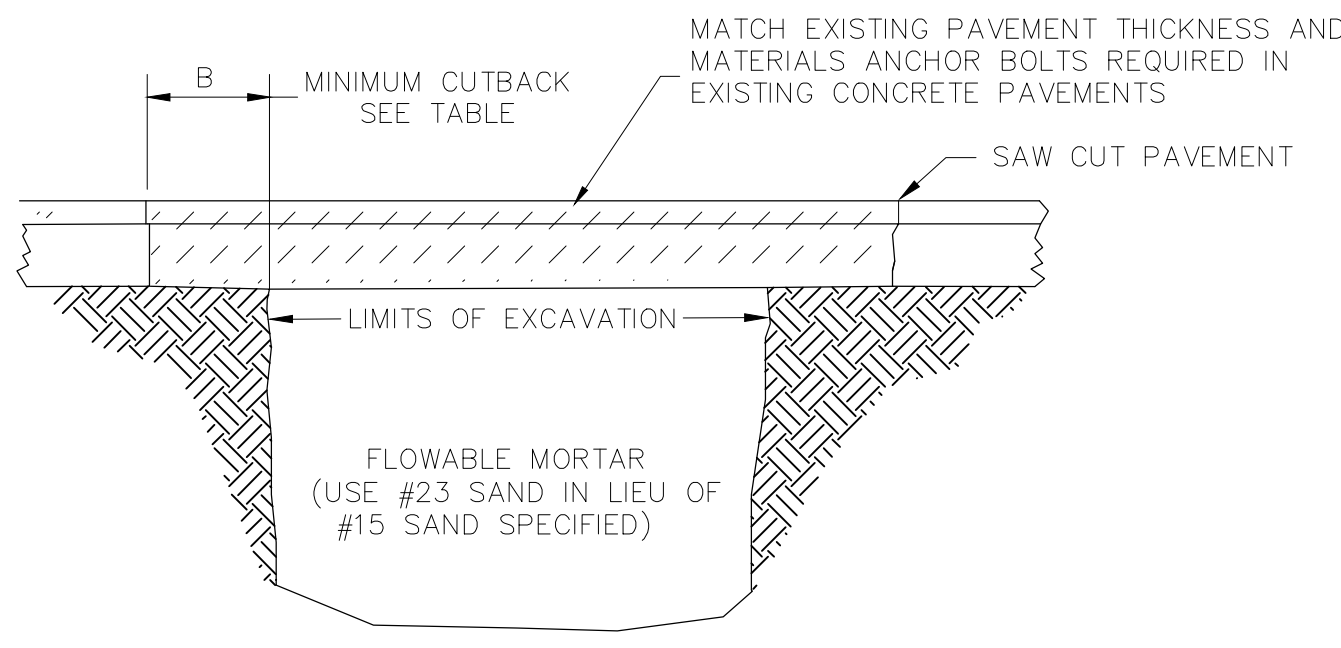
FINAL CUTBACK TABLE	
B	TRENCH WIDTH
6"	3'-0" OR LESS
9"	3'-1" TO 5'-0"
12"	5'-1" OR GREATER



ASPHALT OVER CONCRETE
PAVEMENT REPAIR

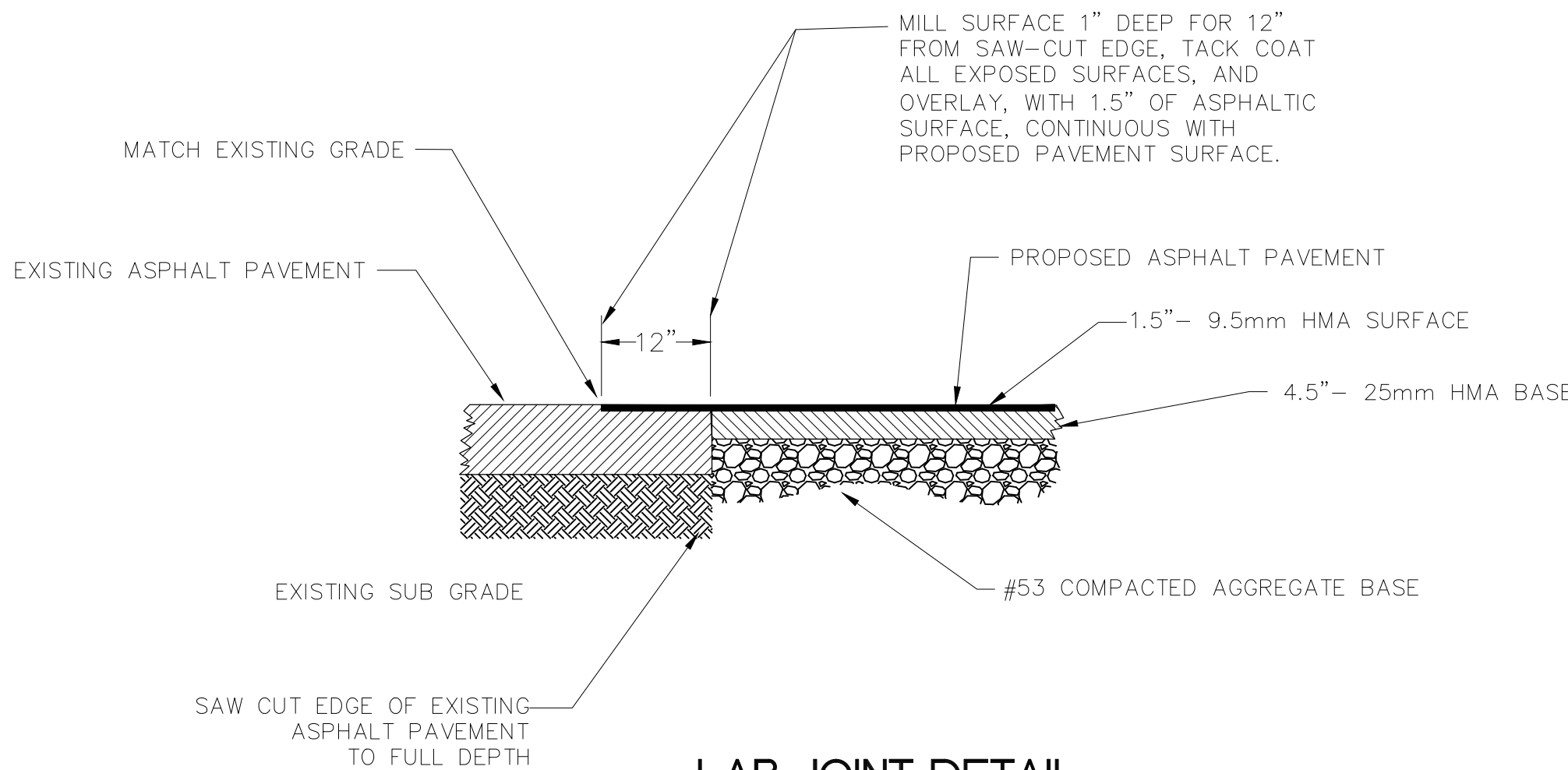


ASPHALT PAVEMENT REPAIR



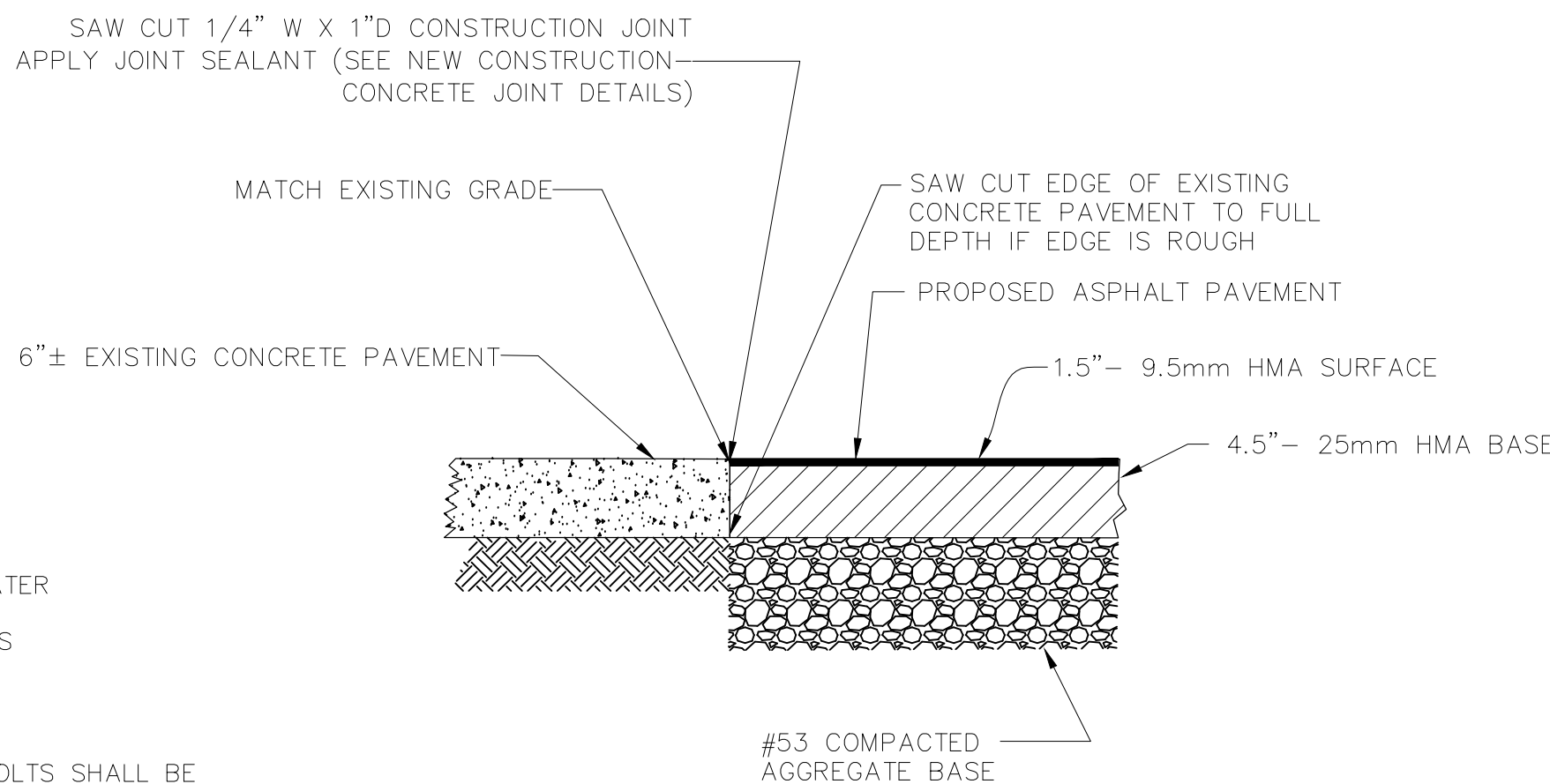
PAVEMENT REPAIR
WITH FLOWABLE MORTAR BACKFILL

(FLOWABLE MORTAR SHALL NOT BE USED WHEN TEMPERATURES ARE BELOW 38° F)
***USE OF FLOWABLE MORTAR REQUIRES PRIOR APPROVAL OF CITY ENGINEER'S OFFICE.



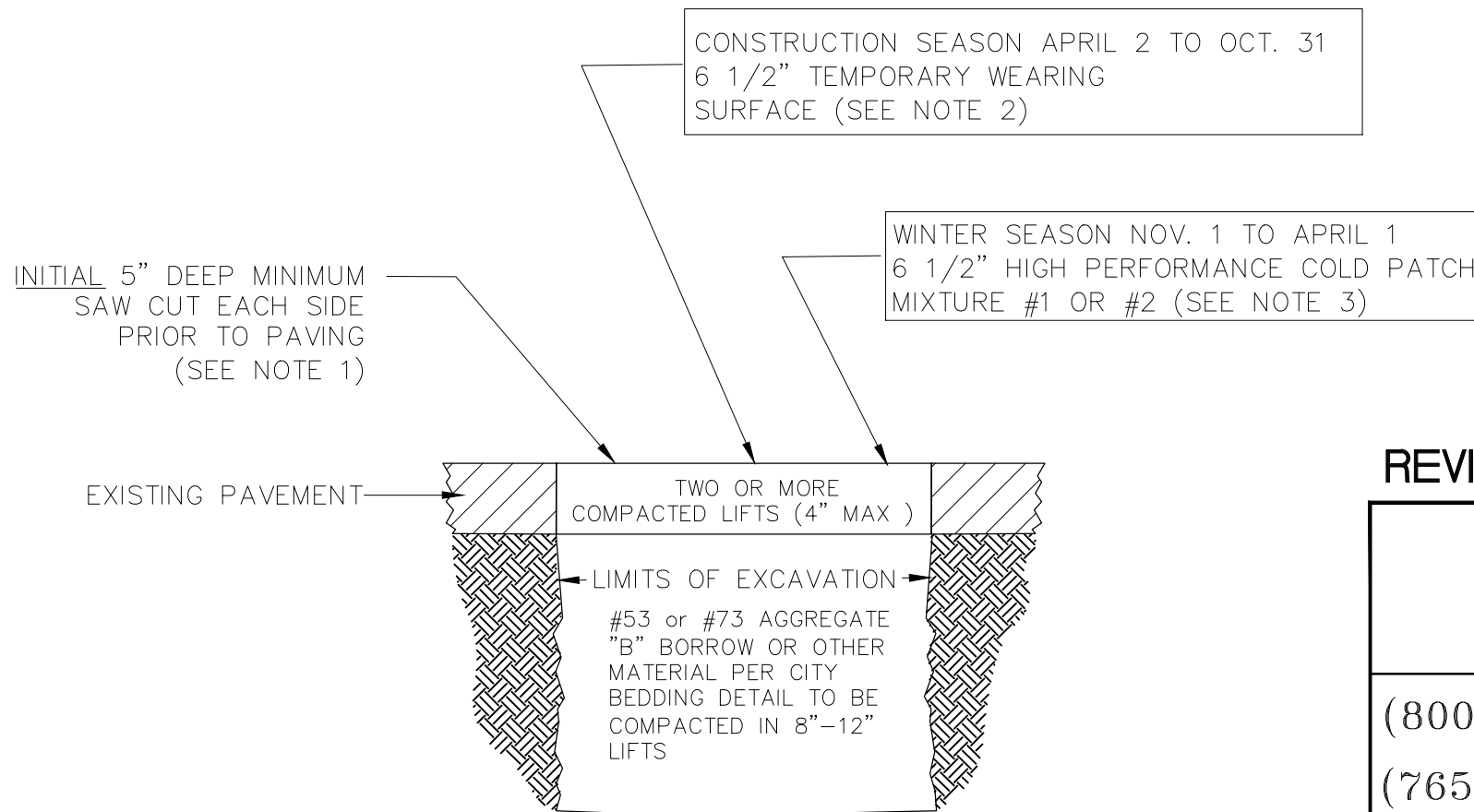
LAP JOINT DETAIL

NOT TO SCALE
LAP-JOINT.DWG 7/2/98



BUTT JOINT DETAIL

NOT TO SCALE
BUTT-JOINT.DWG 7/2/98



TEMPORARY ASPHALT REPAIR

NOT TO SCALE
PART-TEMP.DWG 7/6/99

PAVEMENT RESTORATION NOTES

GENERAL:

- MAINTENANCE OF ANY STREET RESTORATION OR REPAIR SHALL BE THE RESPONSIBILITY OF THE INDIVIDUAL UTILITY OR DEVELOPER AUTHORIZED TO MAKE SUCH REPAIR UNTIL THE STREET HAS BEEN RESURFACED.

PERMANENT PAVEMENT RESTORATION:

- PERMANENT RESTORATION SHALL COMMENCE IMMEDIATELY UPON COMPLETION OF UTILITY WORK AND BE COMPLETE WITHIN (10) WORKING DAYS UNLESS THE CITY ENGINEER'S OFFICE GRANTS A LONGER PERIOD. REQUEST FOR EXTENSION SHALL BE IN WRITTEN FORM AND ACCOMPANIED WITH A REPAIR SCHEDULE, INVENTORY OF EXISTING TEMPORARY RESTORATIONS, AND STATEMENT INDICATING THE REASON(S) FOR THE EXTENSION.
- EXISTING PAVEMENT SAW CUTS SHALL BE IN STRAIGHT LINES AND ARE PERPENDICULAR TO THE CURB (WHERE POSSIBLE). EDGES OF BROKEN PAVEMENT SHALL BE SQUARED OFF TO PROVIDE NEAT EDGE FOR PAVING.
- ASPHALT SHALL BE PLACED USING PROFESSIONAL MEANS TO ESTABLISH A HARD, SMOOTH, EVEN GRADED SURFACE. COMPACTION SHALL BE DONE THOROUGHLY AND UNIFORMLY BY A MACHINE ROLLER. AREAS TOO SMALL FOR MACHINE ROLLING SHALL BE COMPACTED BY HAND WITH MECHANICAL COMPACTION EQUIPMENT UPON PRIOR APPROVAL OF THE CITY. ALL COURSES SHALL BE INITIALLY ROLLED WITH THE ROLLER TRAVELING PARALLEL TO THE CENTERLINE OF THE PAVEMENT BEGINNING AT EACH EDGE AND WORKING TOWARD THE CENTER. ALL ROLLING AND TAMPING OPERATIONS SHALL BE COMPLETED PRIOR TO ASPHALT COOLING TO BELOW 180°F.
- PRIOR TO TACK COATING SUBBASE AND EDGES, THE EXISTING SURFACE SHALL BE FREE OF IRREGULARITIES TO PROVIDE A REASONABLY SMOOTH AND UNIFORM SURFACE TO RECEIVE TREATMENT. THE EDGES OF EXISTING PAVEMENT SHALL BE CLEANED TO PERMIT ADHESION. TACK COAT SHALL NOT BE APPLIED TO WET SURFACES OR WHEN THE AIR TEMPERATURE IS BELOW 45°F. TACK COAT MAY BE ROLLED, BRUSHED OR MOPPED. ALL EXCESS TACK COAT SHALL BE SQUEEGEED FROM THE SURFACE.
- ALL PAVEMENT RESTORATION MATERIALS TO BE PER INDOT "STANDARD SPECIFICATIONS", 1999 EDITION.

TEMPORARY PAVEMENT REPAIR:

- EXISTING PAVEMENT INITIAL SAW CUT TO BE 5" MINIMUM DEPTH TO OBTAIN STRAIGHT LINES PERPENDICULAR FROM THE CURB EDGE AND NEAT EDGE FOR PAVING. EDGES OF BROKEN PAVEMENT SHALL BE SQUARED OFF AND TRIMMED TO NEAT STRAIGHT LINES.
- TEMPORARY PAVEMENT MATERIAL IS TO BE 6 1/2 INCHES THICK HOT MIX ASPHALT. ASPHALT COLD PATCH, BAG ASPHALT AND CRUSH STONE ARE UNACCEPTABLE FOR USE. THE USE OF STEEL STREET PLATES MUST BE REQUESTED IN WRITTEN FORM AND ACCOMPANIED WITH A REPAIR SCHEDULE, INVENTORY OF EXISTING TEMPORARY RESTORATIONS, AND STATEMENT INDICATING THE REASON(S) FOR USE OF PLATES.
- DURING WINTER SEASON WHEN THE PERMANENT PATCH CANNOT BE COMPLETED WITHIN 10 WORKING DAYS (NOVEMBER 1 THRU APRIL 14), IF HOT MIX ASPHALT IS NOT AVAILABLE, USE INDOT APPROVED "HIGH PERFORMANCE COLD PATCH" OR EQUAL INDOT APPROVED MATERIAL.
HIGH PERFORMANCE COLD PATCH MIXTURE #1 (UPM), IS FOR USE IN WET AND COLD CONDITIONS AND WORKABLE AT TEMPERATURES AS LOW AS -15°F.
HIGH PERFORMANCE COLD PATCH MIXTURE #2 (CM300), IS FOR USE IN WET AND COLD CONDITIONS AND WORKABLE AT TEMPERATURES AS LOW AS 32°F.
- ALL MATERIALS ARE TO BE COMPACTED TO FORM A FIRM AND SMOOTH TRANSITION BETWEEN OLD AND NEW SURFACE GRADE. DO NOT APPLY HOT MIX ASPHALT ON A WET SURFACE.
- UPON COMPLETION OF BACKFILLING, TEMPORARY PAVEMENT ON STREETS SHALL BE PLACE BY THE END OF WORK DAY.
- TEMPORARY STREET RESTORATION IS INTENDED TO BE AN INTERIM MEASURE UNTIL CONDITIONS ALLOW FOR PERMANENT RESTORATION OF THE STREET. THE CITY REALIZES THAT AT TIMES, TEMPORARY RESTORATION IS NECESSARY, SUCH AS, DURING THE WINTER SEASON WHEN THE ASPHALT PLANTS ARE CLOSED AND WHEN FREEZING TEMPERATURES MAKE PERMANENT RESTORATION NOT FEASIBLE OR WHEN PERMIT WORK PRECEDES CITY STREET RECONSTRUCTION OR REHABILITATION. PERMIT HOLDERS ARE TO MINIMIZE THE USE OF TEMPORARY RESTORATIONS WHEN POSSIBLE. ANY WORK UNDERTAKEN BEFORE NOVEMBER 1 SHALL BE PERMANENTLY RESTORED BEFORE THE FALL ASPHALT PLANT CLOSINGS. ONLY WORK UNDERTAKEN ON OR AFTER NOVEMBER 1 MAY BE CARRIED OVER TO PERMANENT RESTORATION IN THE FOLLOWING SPRING SEASON ALL TEMPORARY RESTORATION PLACED DURING THE WINTER SEASON MUST BE PERMANENTLY RESTORED WITHIN FOUR (4) WEEKS OF SPRING ASPHALT PLANT OPENINGS, BUT NO LATER THAN MAY 15TH. THE CITY ENGINEER'S OFFICE MAY GRANT EXTENSIONS BEYOND MAY 15TH FOR PERMANENT RESTORATIONS WHEN REQUESTED IN WRITING AND ACCOMPANIED WITH A REPAIR SCHEDULE, INVENTORY OF EXISTING TEMPORARY RESTORATIONS, AND STATEMENT INDICATING THE REASON(S) FOR THE EXTENSION

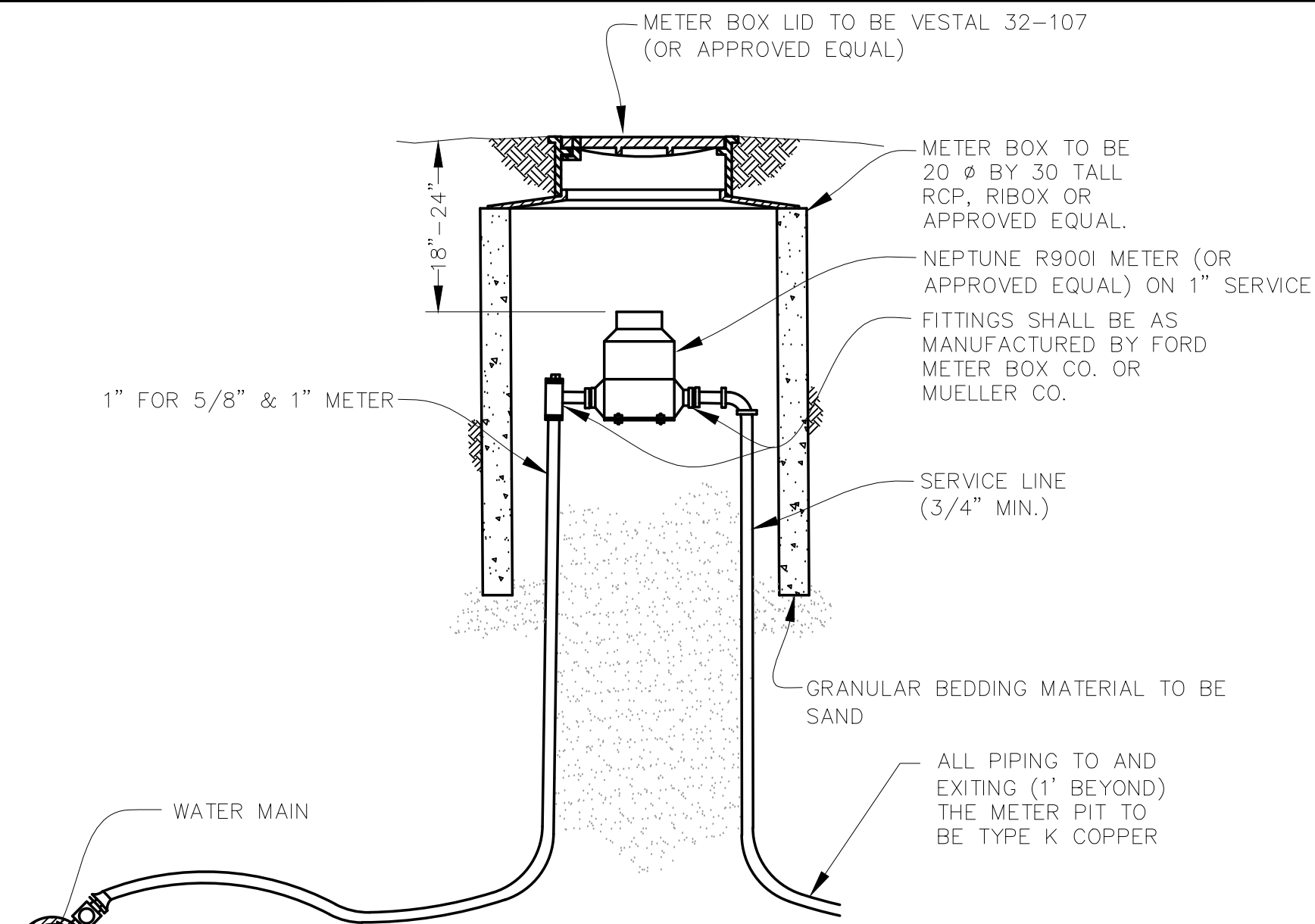
SPECIAL SURFACE STREETS:

- ANY SPECIAL SURFACES SHALL BE RESTORED IN-KIND. FOR EXAMPLE. BRICK SURFACE STREETS REQUIRE ALL PAVEMENT CUTS TO BE RESTORED WITH BRICK. COBBLESTONE SURFACE STREETS MUST BE RESTORED WITH COBBLESTONE. PERMIT HOLDER SHALL SALVAGE AS MUCH OF THE EXISTING BRICK OR COBBLESTONE AS POSSIBLE FOR REUSE IN THE RESTORATION AND SHALL SUPPLY ANY REMAINING MATERIAL REQUIRED FOR THE RESTORATION.



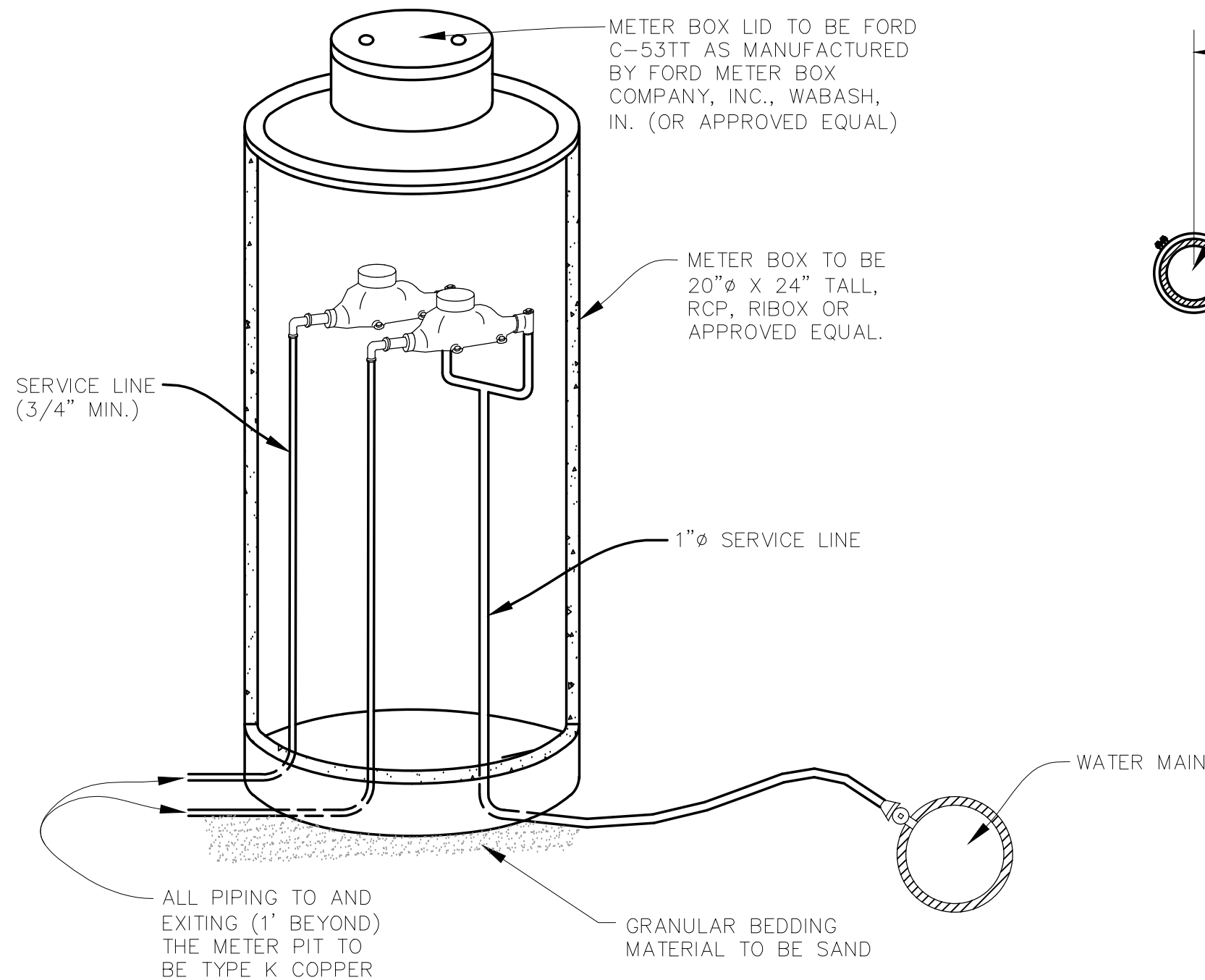
REVISED 09/01/2013

REVISED 09/01/2013		PROJECT NAME		PROJECT SHEET NUMBER	
				of	
CITY OF LAFAYETTE					
(800) 382-5544		HOLEY MOLEY		DATE	
(765) 807-1050		CITY ENGINEER		JUNE 2013	
(765) 807-1800		WATER POLLUTION CONTROL-SEWERS		SHEET	
(765) 807-1700		WATER WORKS		5	
(765) 807-1600		FIRE DEPT.		OF	
(765) 807-1210		POLICE DEPT.		12	



WATER METER PIT DETAIL FOR 5/8" AND 1" METERS

NOT TO SCALE
1-METER.DWG 7/2/98



STANDARD DOUBLE METER PIT INSTALLATION FOR 5/8" METERS

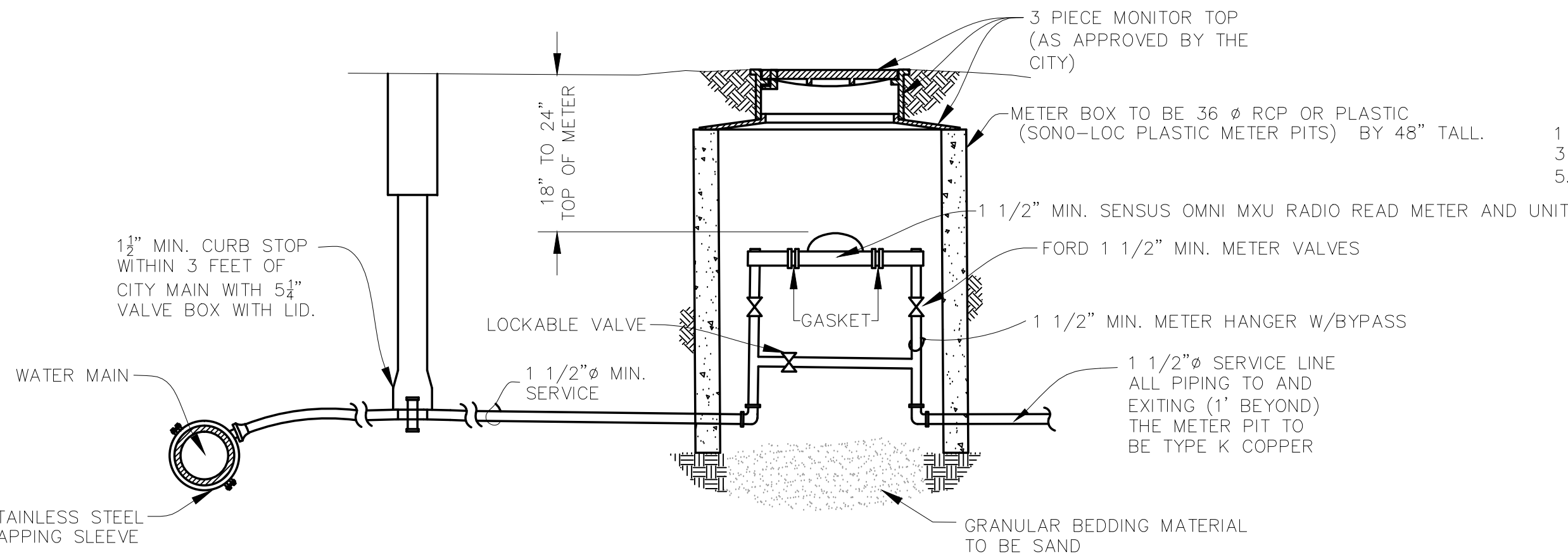
NOT TO SCALE
2-METERS.DWG 7/2/98

WATER MAIN NOTES

NOTES-WT.DWG 7/2/98

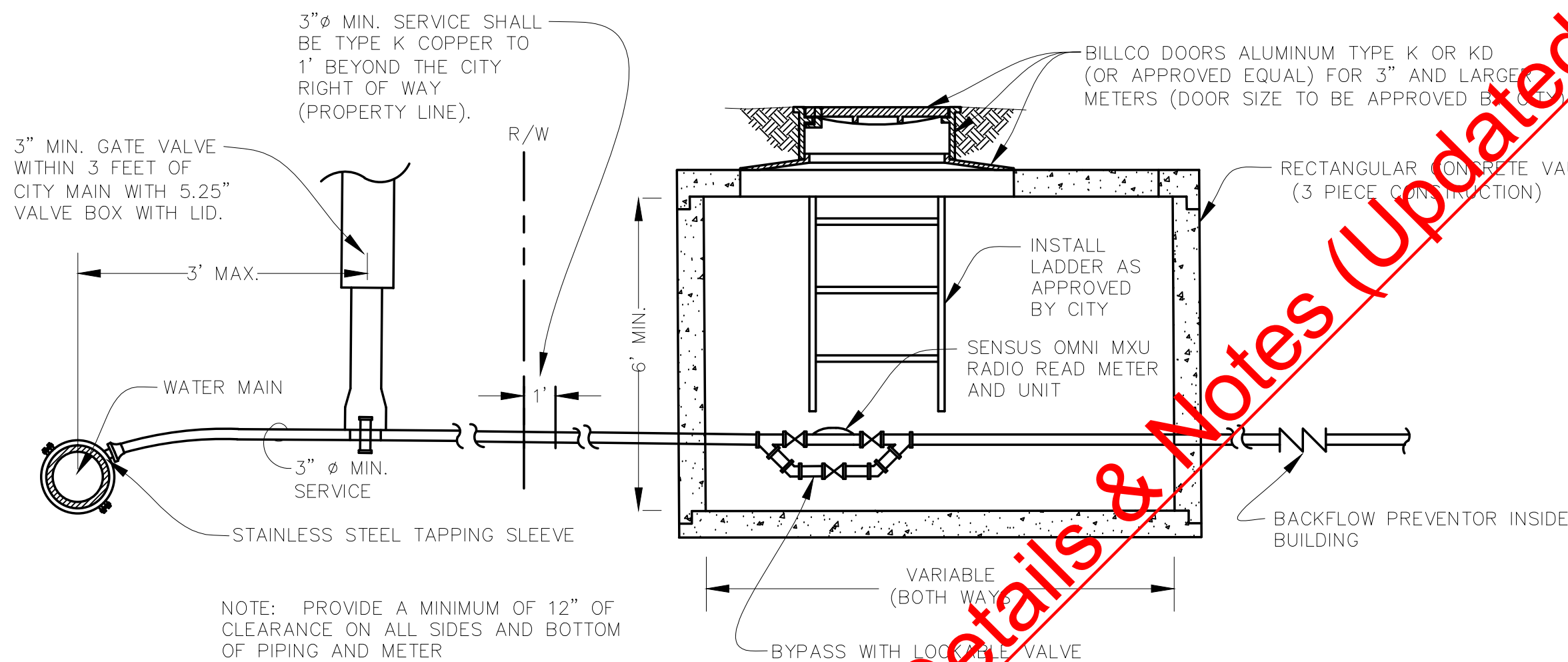
- ALL WATER MAINS SHALL BE CEMENT LINED DUCTILE IRON (D.I.) (PRESSURE CLASS 250 MIN., SLIP JOINT PIPE CONFORMING TO AWWA C-110, C-111, C-150 AND C-151 AS APPLICABLE AND NSF-61.
- ALL FITTINGS TO BE DUCTILE IRON (D.I.) WITH MECHANICAL JOINTS (M.J.) CONFORMING TO AWWA C-110, C-111, C-153 AND NSF-61.
- ALL WATER SERVICE LINES SHALL BE 1" DIAMETER (MINIMUM) TYPE K COPPER TUBING TERMINATING WITH A CURB STOP. SERVICE LINE LOCATIONS SHALL BE MARKED BY STAMPING OR SAW CUTTING A "W" IN THE CURB. THE CURB STOP/WATER SERVICE SHOULD BE LOCATED ON P/L OR WITHIN 5'.
- THE MANUFACTURER'S ALLOWABLE PIPE DEFLECTION SHALL BE USED TO MAINTAIN THE VERTICAL AND HORIZONTAL ROUTE UNLESS OTHER FITTINGS (i.e. TEES AND ELBOWS) OR METHODS ARE SPECIFICALLY CALLED OUT, OR ARE DIRECTED BY THE CITY.
- MEG-A-LUG RETAINER GLANDS BY EBBA IRON, INC., EASTLAND, TX SHALL BE USED ON EACH SIDE OF FITTINGS WHERE THE WATER MAIN CHANGES DIRECTION. ADDITIONAL SETS OF RETAINER GLANDS ARE TO BE PLACED AT PIPE LENGTHS ABOVE AND BELOW THE FITTINGS AS REQUIRED (SEE CHART ON SHEET #7). FIELD-LOK GASKETS OR ONE BOLT RESTRAINED FITTINGS CAN BE USED IN LIEU OF RETAINER GLANDS.
- THE MINIMUM SIZE REQUIREMENT FOR ALL COMMERCIAL WATER SERVICE LATERALS IS ONE (1) INCH. (1" SERVICE LINE AND 1" METER)
- ALL INDUSTRIAL/COMMERCIAL DEVELOPMENTS SHALL HAVE A MINIMUM 6" X "MAIN SIZE" TEE INSTALLED TO EACH PROPOSED LOT FOR FUTURE FIRE/ DOMESTIC SERVICE (SEE SITE PLAN FIRE SERVICE DETAIL).
- WATER MAINS SHALL HAVE A MINIMUM OF 5'-0" COVER. WATER MAIN COVER SHALL NOT EXCEED 11' WITHOUT CITY APPROVAL. ANY DEVIATIONS FROM PLAN GRADE MUST BE SHOWN ON THE "AS-BUILT" DRAWINGS.

- DEVELOPMENT OF PROPERTY MAY REQUIRE CONSTRUCTION OF ADDITIONAL FIRE HYDRANTS, GENERALLY AT 500' MINIMUM INTERVAL, AND AS REQUIRED BY THE LAFAYETTE FIRE DEPARTMENT.
- THE COMPLETED WATER MAIN SHALL BE SUBJECTED TO A 150 PSI HYDROSTATIC TEST AND SHALL BE DISINFECTED. ALL VALVES AND HYDRANTS MUST BE COMPLETELY OPENED AND CLOSED AND ALL CORPORATION STOPS AND SERVICE LINES IN PLACE PRIOR TO PERFORMING THE HYDROSTATIC TEST. THE HYDROSTATIC TEST SHALL BE OF AT LEAST 2-HR DURATION. TEST PRESSURE SHALL NOT VARY MORE THAN +/- 5 PSI FOR THE DURATION OF THE TEST. GAUGES FOR TESTING SHALL BE RATED FOR 150 PSI OR GREATER AND SHALL INDICATE PRESSURE IN 5 PSI (MAX) INCREMENTS. THE TEST WILL BE PERFORMED IN ACCORDANCE WITH CITY TESTING PROCEDURES AND IN CONFORMANCE WITH AWWA C-600. ALL VALVES INCLUDING THE WATCH VALVE AND THE HYDRANTS SHALL BE OPEN DURING THE PRESSURE AND BACTERIA TESTS. HYDROSTATIC AND BACTERIAL TESTING SHALL BE COMPLETED WITHIN 30 DAYS AFTER THE COMPLETED WATER MAIN HAS BEEN CHARGED (FILLED). AFTER FINAL FLUSHING AND AGAIN AFTER 24 HOURS, SAMPLES SHALL BE COLLECTED FROM THE WATER MAIN, AND SHALL BE TESTED FOR BACTERIOLOGICAL QUALITY IN ACCORDANCE WITH THE STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER (AT AN APPROVED LABORATORY). THE TEST SHALL SHOW THE ABSENCE OF COLIFORM ORGANISMS. THE CONTRACTOR MUST CONTINUE WITH THE WATERWORKS PUBLIC WORKS INSPECTOR TO DETERMINE THE LOCATION AND NUMBER OF BACTERIA SAMPLES TO BE TAKEN, AND TO SET A SAMPLING DATE AND TIME. THE ORIGINAL OF ALL TEST RESULTS AND CHAIN OF CUSTODY FORMS ARE TO BE SENT TO THE WATERWORKS WITHIN 5 DAYS OF TESTING WITH A COPY TO THE CITY ENGINEER'S OFFICE.
- VALVE OPENING DIRECTION SHALL BE CONSISTENT WITH THE EXISTING UTILITY SYSTEM. (LEFT HAND OPEN/COUNTER CLOCKWISE) VALVE LOCATIONS SHALL BE MARKED BY STAMPING OR CUTTING A "V" IN THE CURB, AND PLACING A PARTIALLY BURIED 2x4 AT THE LOCATION.
- TRENCHES UNDER PAVED AREAS (EXCLUDING SIDEWALKS) SHALL BE BACKFILLED WITH GRANULAR MATERIAL PER INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", LATEST EDITION, SECTION 211, AND COMPACTED IN LIFTS. GRANULAR MATERIAL TO EXTEND FIVE FEET BEYOND THE LIMITS OF THE PAVED AREA WITH A 1:1 SLOPE TO THE BOTTOM OF THE TRENCH. GRANULAR BEDDING IS REQUIRED UNDER ALL PAVED AREAS (EXCLUDING SIDEWALKS).



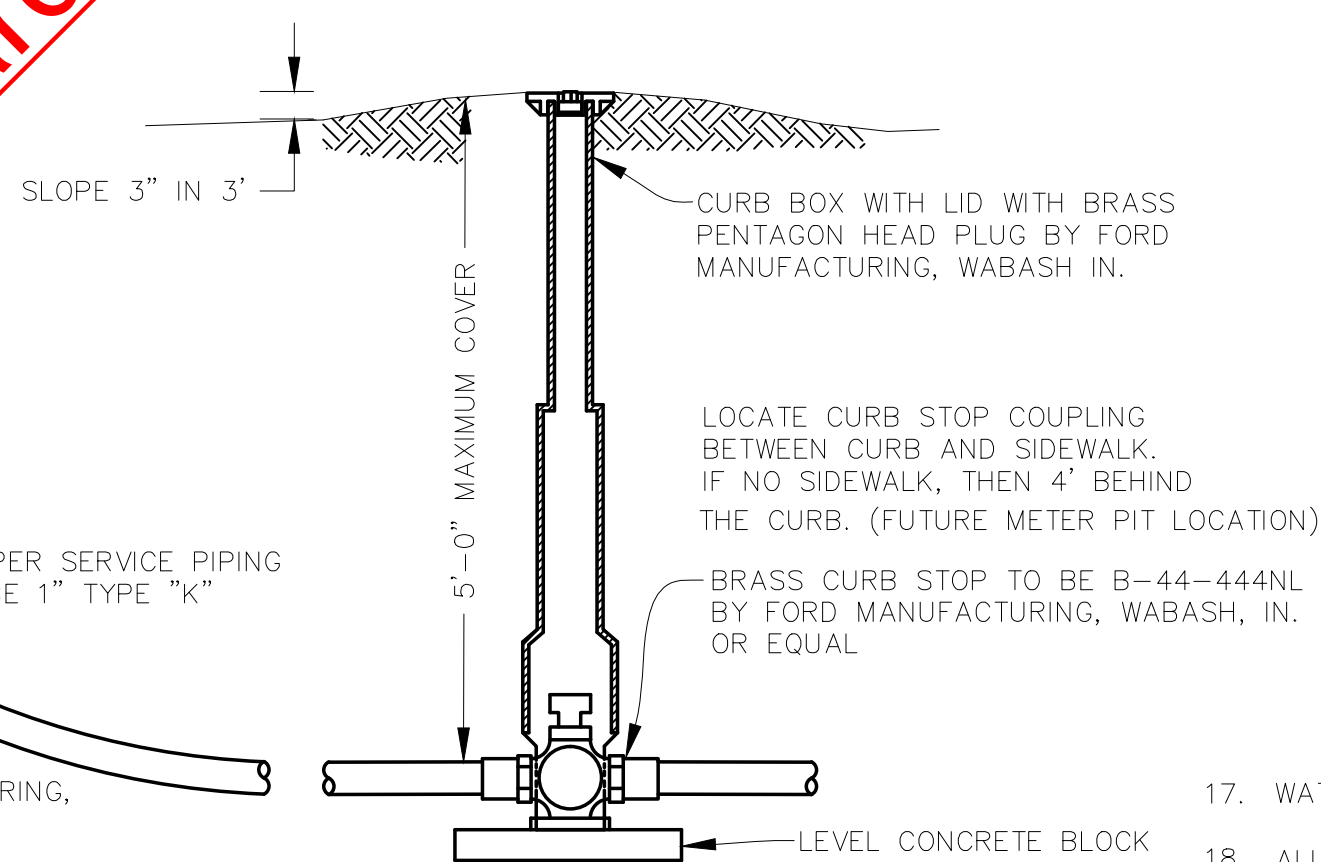
WATER METER PIT DETAIL FOR 1 1/2" AND 2" COMMERCIAL METERS

NOT TO SCALE
1-METER.DWG 7/2/98



WATER METER VAULT DETAIL FOR 3" AND LARGER COMMERCIAL METERS

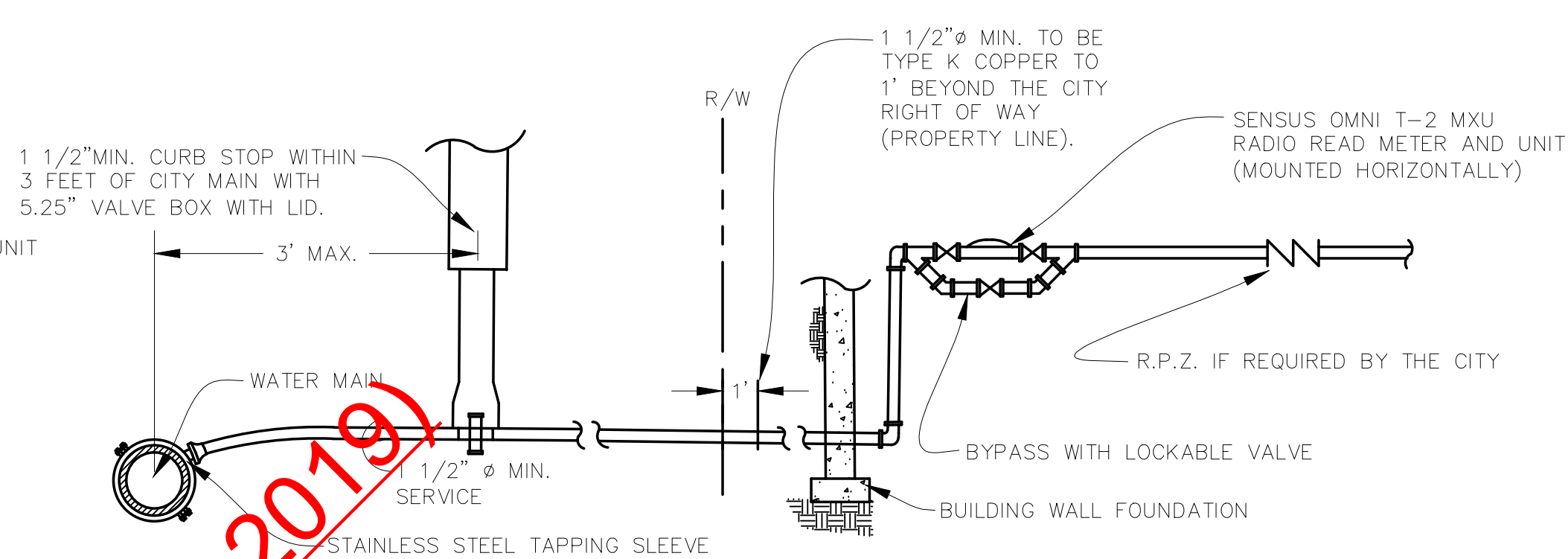
NOT TO SCALE



TAP SERVICE DETAIL

NOT TO SCALE
TAP-SERV.DWG 7/2/98

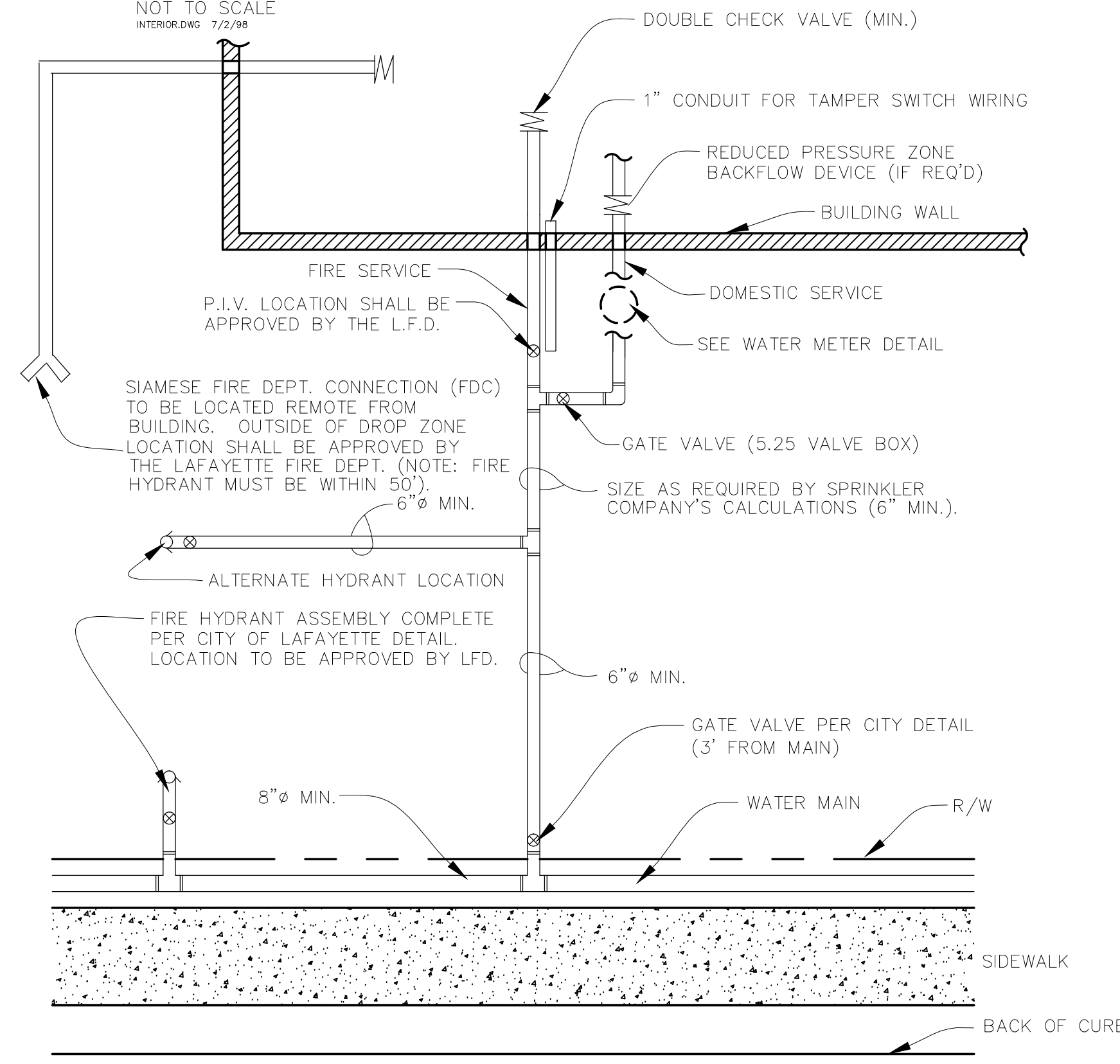
- 18" VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION TO BE MAINTAINED BETWEEN WATER MAINS, HYDRANTS AND SEWERS (SANITARY AND STORM).
- TAPS AND FITTINGS ARE NOT TO BE INSTALLED UNDER PAVEMENTS OR IN EASEMENTS WITHOUT PRIOR APPROVAL OF THE CITY.
- WATERWORKS DEPT. ONLY SHALL OPEN VALVES TO CHARGE NEW LINES.
- TAPPING OF A CITY MAIN CAN ONLY BE DONE UNDER SUPERVISION OF THE CITY. TAPPING SLEEVES AND VALVES FOR PRESSURE TAPS ON MAINS UP TO 24" shall BE MUELLER H-615, H-616 (OR STAINLESS STEEL SLEEVES). TAPPING VALVES SHALL BE 2360 SERIES BY MUELLER OR THE AFC 2500. TEES FOR MAINS WILL BE CUT-IN ONLY WHEN THE NEW MAIN IS TO BE LARGER THAN OR OF EQUAL SIZE TO THE EXISTING MAIN OR WHEN A NEW VALVE IS TO BE INSTALLED ON THE EXISTING MAIN NEAR THE LOCATION OF THE NEW TEE. SIZE-ON-SIZE IS PERMISSIBLE FOR MAINS 12" and UNDER. STAINLESS STEEL SLEEVES SHALL MEET THE FOLLOWING REQUIREMENTS:
A) DUCTILE IRON OR STAINLESS STEEL FLANGE
B) 304 STAINLESS STEEL FULL BODY WITH STAINLESS STEEL BOLTS AND NUTS.



INTERIOR METER INSTALLATION DETAIL

FOR 1 1/2" AND LARGER COMMERCIAL METERS

NOT TO SCALE
INTERIOR.DWG 7/2/98



COMMERCIAL LOT WITH FIRE SERVICE DETAIL (TYP.)

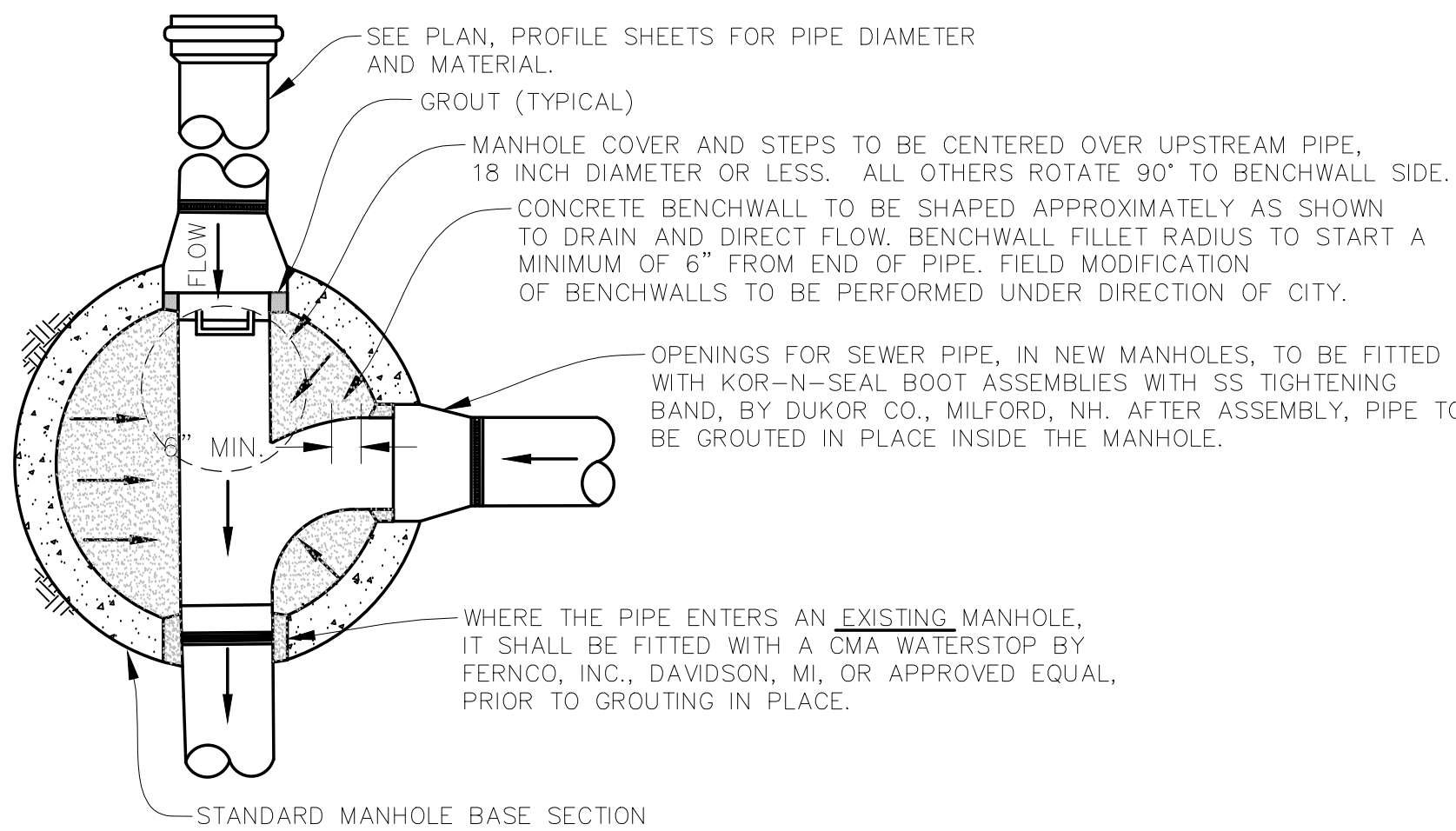
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COM-FIRE.DWG 7/2/98

- WATER TAP SERVICE TO BE PROVIDED FOR BOTH SHORT AND LONG SIDES.
- ALL FIRE PLANS, SPRINKLER PLANS SHALL BE SUBMITTED TO THE LAFAYETTE FIRE DEPARTMENT (LFD) FOR REVIEW AND APPROVAL.
- FLOW TEST DATA SHALL BE OBTAINED BY THE DEVELOPER/OWNER AT NO COST TO THE CITY AND UNDER THE SUPERVISION OF THE LFD AND WATERWORKS DEPT. TEST RESULTS AND LFD CERTIFICATION TO BE SUBMITTED TO THE CITY ENGINEER'S OFFICE.
- ALL DOMESTIC (LAWN) SPRINKLER SYSTEMS SHALL BE 1-INCH SERVICE.
- WHENEVER PROPRIETARY EQUIPMENT IS SPECIFIED, "OR APPROVED EQUAL IMPLIED. ALL PROPOSALS FOR SUBSTITUTION SHALL BE SUBMITTED TO THE CITY IN WRITING FOR THEIR APPROVAL.



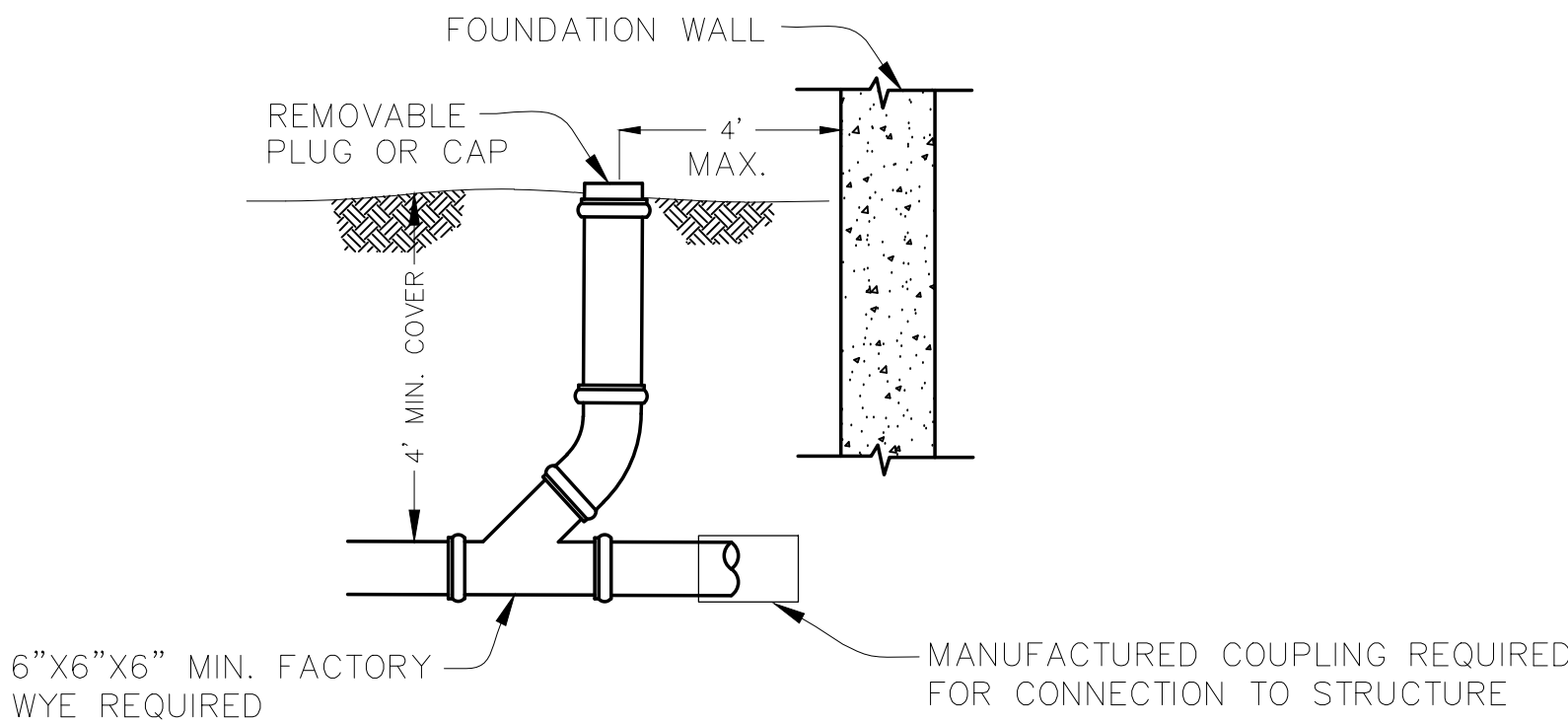
REVISED 09/01/2013

		PROJECT NAME		PROJECT SHEET NUMBER	
REVISED 09/01/2013				of	
CITY OF LAFAYETTE					
(800) 382-5544 HOLEY MOLEY		20 NORTH SIXTH STREET LAFAYETTE, INDIANA 47901		DATE JUNE 2013	
(765) 807-1050 CITY ENGINEER				SHEET 6	
(765) 807-1800 WATER POLLUTION CONTROL-SEWERS		WATER MAIN, AND METER TYPICAL DETAILS AND NOTES		OF	
(765) 807-1700 WATER WORKS				12	
(765) 807-1600 FIRE DEPT.					
(765) 807-1210 POLICE DEPT.					



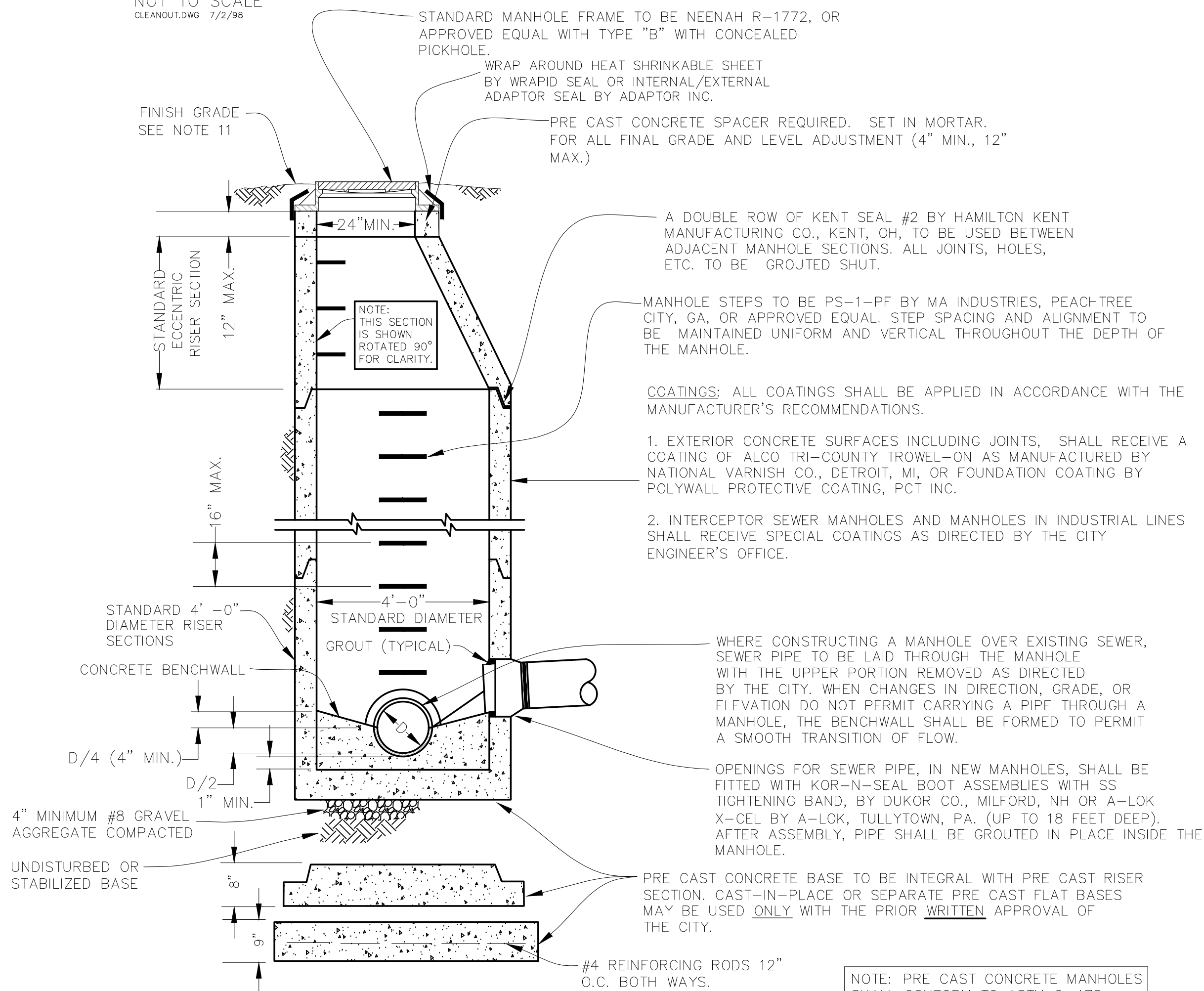
STANDARD SANITARY MANHOLE PLAN

NOT TO SCALE
MPLAN.DWG 7/2/98



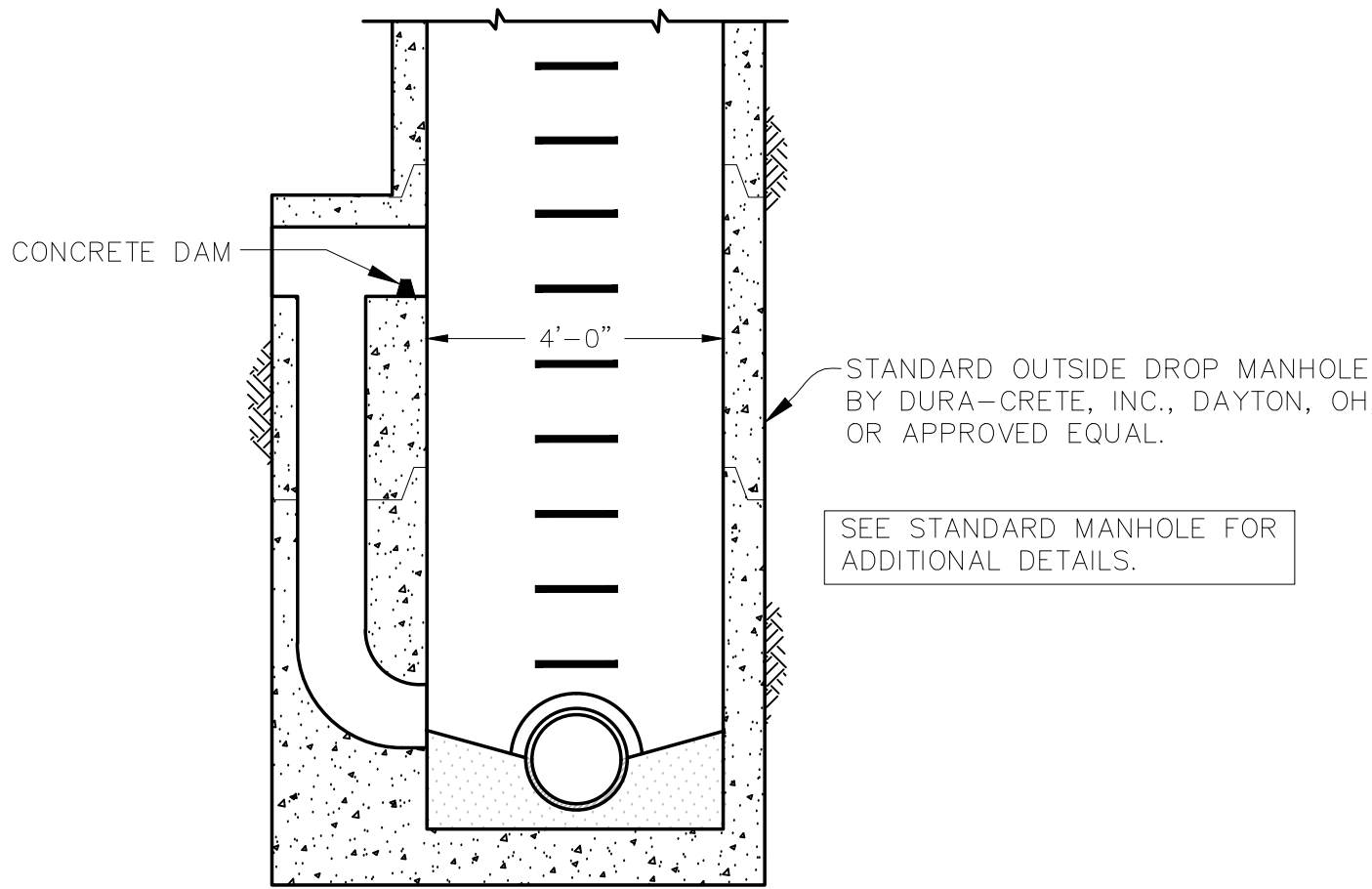
CLEAN-OUT DETAIL

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CLEANOUT.DWG 7/2/98



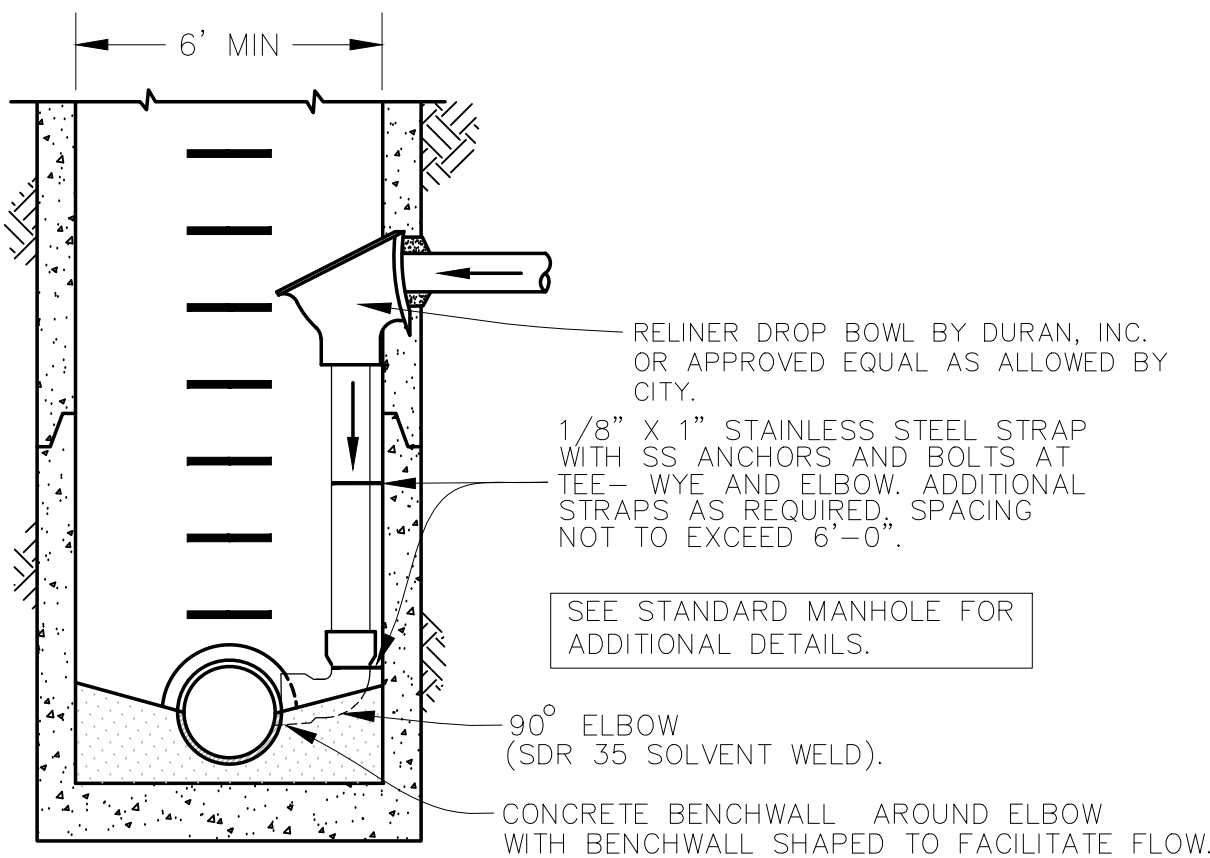
STANDARD SANITARY MANHOLE DETAIL

NOT TO SCALE
MHDWG 7/2/98



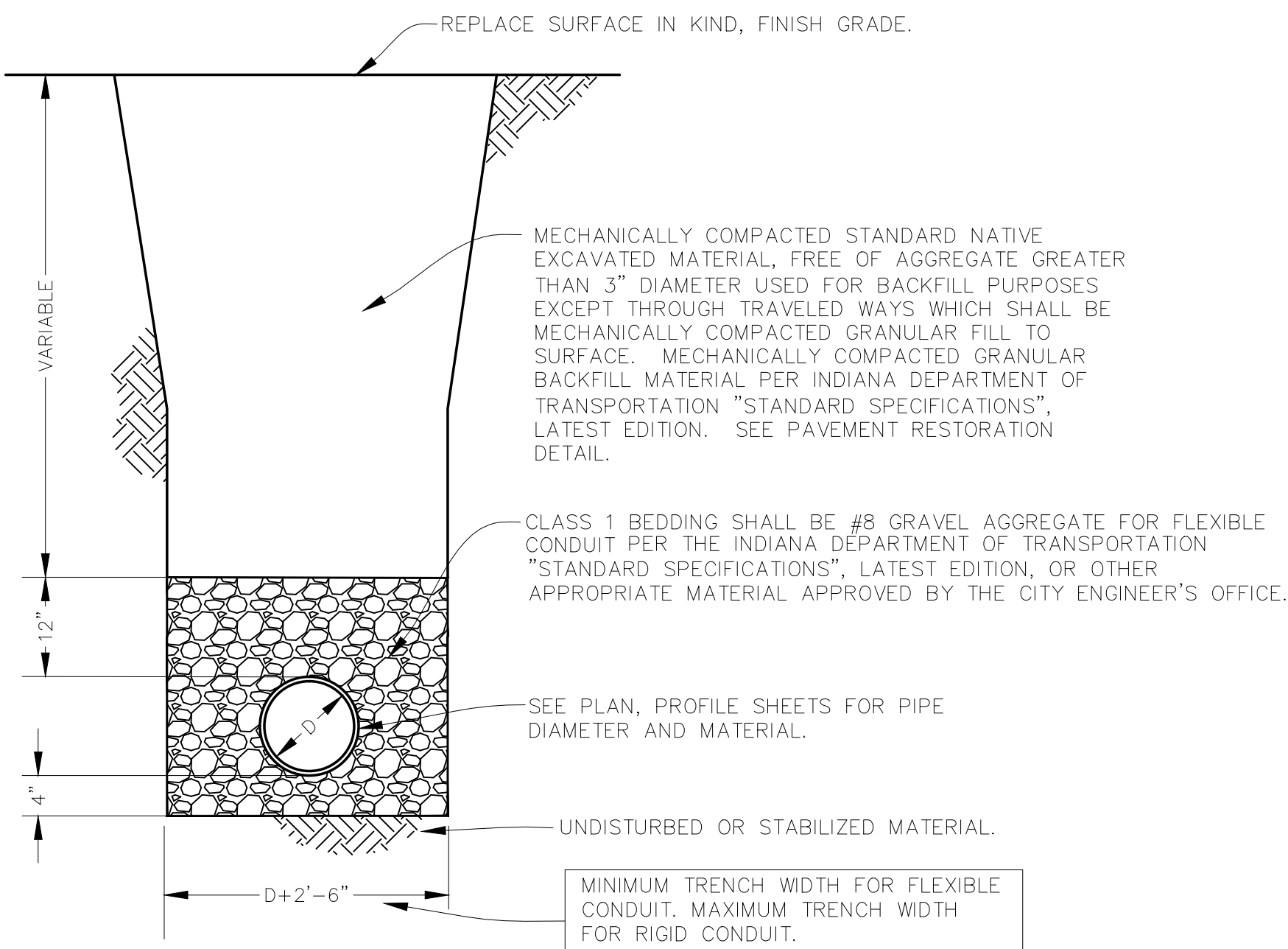
PRE CAST OUTSIDE DROP MANHOLE

NOT TO SCALE
DROPMAN.DWG 7/2/98



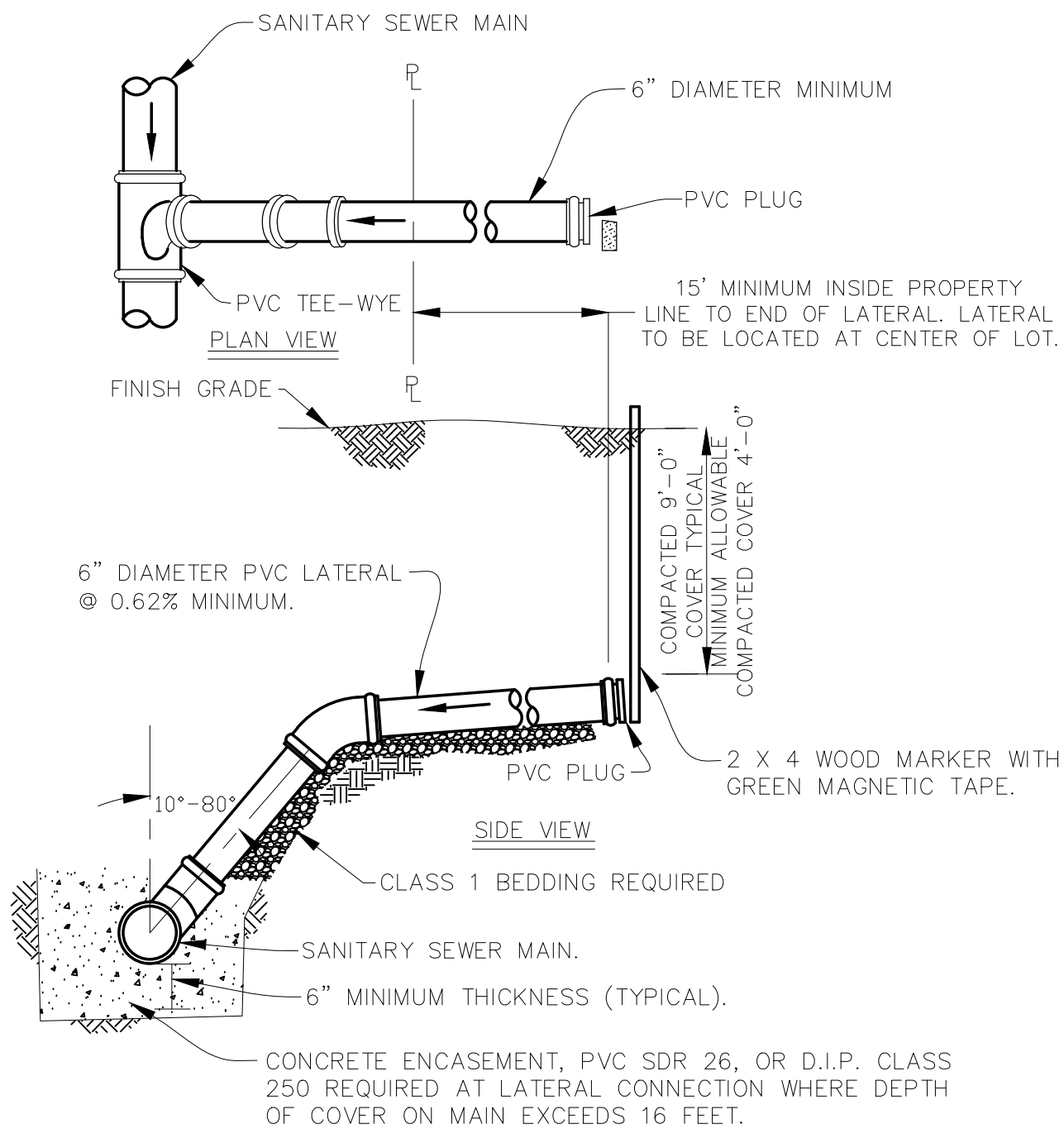
INSIDE DROP MANHOLE DETAIL

(EXISTING MANHOLES ONLY)
NOT TO SCALE



STANDARD BEDDING DETAIL

NOT TO SCALE
BEDDTL.DWG 7/2/98



LATERAL CONNECTION DETAIL

NOT TO SCALE
LAT-CON.DWG 7/2/98

SANITARY SEWER NOTES

NOTES-SS.DWG 7/2/98

- SANITARY SEWERS TO BE POLYVINYL CHLORIDE (PVC) SDR 35 PIPE AND SHALL MEET OR EXCEED ASTM D-3034 OR ASTM 679 AS APPLICABLE. JOINTS SHALL BE GASKETED, BELL AND SPIGOT TYPE WITH THE BELL MADE INTEGRAL WITH THE PIPE. SEE PLAN, PROFILE SHEETS FOR SIZES. SANITARY SEWERS TO BE SDR 26 PIPE FOR DEPTH 16' OR GREATER.
- SANITARY SEWER LATERALS FOR HOUSE CONNECTIONS SHALL BE 6" DIAMETER PVC SDR 35 CONFORMING TO ASTM D-3034, LAID AT A MINIMUM SLOPE OF 0.62% ENDS TO BE PLUGGED. JOINTS SHALL BE GASKETED BELL AND SPIGOT TYPE WITH THE BELL MADE INTEGRAL. PIPE LATERALS LONGER THAN 150' REQUIRE ADDITIONAL CLEANOUTS AT 100 FOOT MAXIMUM SPACING.
- LATERAL CONNECTIONS TO AN EXISTING SEWER SHALL BE MADE WITH A BOOT-N-SADDLE WITH STAINLESS STEEL STRAPS AND APPROPRIATE RUBBER FITTING.
- THE COMPLETED SANITARY SEWER SHALL BE HIGH PRESSURE WATER JET CLEANED AND SUBJECTED TO AN AIR TEST CONFORMING TO ASTM F1417-92. A DEFLECTION TEST SHALL BE PERFORMED WITH A "GO-NO-GO" MANDRELL (95%) ACCORDING TO IDEM STANDARDS. CLEANING, TELEVISION AND TESTING SHALL BE PERFORMED A MINIMUM OF 45 DAYS AFTER INSTALLATION AND WITNESSED BY THE CITY. ALL COSTS OF CLEANING AND TESTING ARE TO BE BORNE BY THE CONTRACTOR. CLOSED CIRCUIT TELEVISION INSPECTION OF THE SYSTEM SHALL BE REQUIRED. A COPY OF THE TAPE (VHS FORMAT) SHALL BE RETAINED BY THE CITY. ALL COSTS OF TELEVISION ARE TO BE BORNE BY THE CONTRACTOR.
- MANHOLES SHALL BE AIR TESTED IN ACCORDANCE WITH ASTM C1244-93, STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY THE NEGATIVE AIR PRESSURE (VACUUM) TEST.
- 18" VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION TO BE MAINTAINED BETWEEN WATER MAINS, HYDRANTS, AND ALL SEWERS (SANITARY AND STORM).
- TRENCHES UNDER PAVED AREAS (EXCLUDING SIDEWALKS) SHALL BE BACKFILLED WITH GRANULAR MATERIAL PER INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", LATEST EDITION, AND COMPACTED IN LIFTS. GRANULAR MATERIAL TO EXTEND 5 FEET BEYOND THE LIMITS OF THE PAVED AREA WITH A 1:1 SLOPE TO THE BOTTOM OF THE TRENCH.
- CONNECTIONS TO EXISTING MANHOLES TO BE MADE USING A CMA WATERSTOP GROUTED IN PLACE USING PRECO PLUG BY PRECO INDUSTRIES.
- ALL SEWER LINES SHALL HAVE A 0.1 FT. DROP THROUGH THE MANHOLE. WHERE SEWER LINES CHANGE DIRECTION THE MANHOLE INVERT ELEVATION SHALL DROP 0.25 FEET (TYPICAL) THROUGH THE MANHOLE.
- SEWER PERMIT AND CITY INSPECTION REQUIRED FOR ALL CONNECTIONS TO STORM AND SANITARY SEWER SYSTEMS. SEWER PERMIT REQUIRED ON SITE DURING ANY SEWER CONSTRUCTION.
- TOP OF MANHOLE FRAMES TO BE SET AT PROPOSED YARD OR SIDEWALK GRADE WHEN LOCATED IN FRONT YARD AREA OF LOT OR RIGHT-OF-WAY. WHEN MANHOLE IS IN A TRAVELED WAY, THE TOP OF THE LID SHALL BE FLUSH WITH THE FINAL SURFACE, AND BACKFILL SHALL BE GRANULAR TO SURFACE. IN ALL OTHER AREAS THE TOP OF THE FRAME SHALL BE ONE FOOT ABOVE THE SURROUNDING GRADE, SLOPING AWAY FROM THE MANHOLE FOR A DISTANCE OF 6'-0" IN ALL DIRECTIONS.
- WHERE PROPRIETARY EQUIPMENT IS SPECIFIED, "OR APPROVED EQUAL" IS IMPLIED. ALL PROPOSALS FOR SUBSTITUTION SHALL BE SUBMITTED TO THE CITY IN WRITING FOR THEIR APPROVAL.
- MARK THE LOCATIONS OF THE SANITARY SEWER LATERALS BY STAMPING OR CUTTING "SS" IN THE CURB. SIMILARLY, STAMP OR CUT MH IN THE CURB TO MARK THE LOCATIONS OF MANHOLES.

TELEVISION INSPECTION CRITERIA

SANITARY SEWERS

NOTES-TIDWG 7/2/98

SEWERS SHALL BE "FLOODED" BEFORE TELEVISION INSPECTION. THE IMAGE SHALL BE CLEAR ENOUGH TO ENABLE THE CITY REPRESENTATIVE AND OTHERS VIEWING THE MONITOR TO EASILY EVALUATE THE INTERIOR CONDITION OF THE PIPE.

ALL UNACCEPTABLE CONDITIONS FOUND DURING TELEVISION INSPECTION MUST BE CORRECTED BY THE CONTRACTOR AND RETELEVIEWED.

UNACCEPTABLE CONDITIONS ARE CONDITIONS THAT ADVERSELY EFFECT THE ABILITY OF THE SYSTEM TO FUNCTION AS DESIGNED OR TO BE PROPERLY MAINTAINED AND MAY INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- PROTRUDING TAPS
- CRACKED OR FAULTY PIPE
- MISALIGNED OR DEFORMED PIPE
- DEBRIS IN LINE
- INFILTRATION/EXFILTRATION
- EXCESSIVE GAPS AT JOINTS
- BELLIES OR SAGS WITH A DEPTH GREATER THAN OR EQUAL TO 10% (OR A MAXIMUM OF 1 1/2") OF PIPE DIAMETER AND/OR A LENGTH GREATER THAN 25 FEET

DETAILS AS TO REQUIRED TELEVISION EQUIPMENT AND REQUIRED TELEVISION INSPECTION REPORT ARE AVAILABLE FROM THE CITY ENGINEER'S OFFICE.

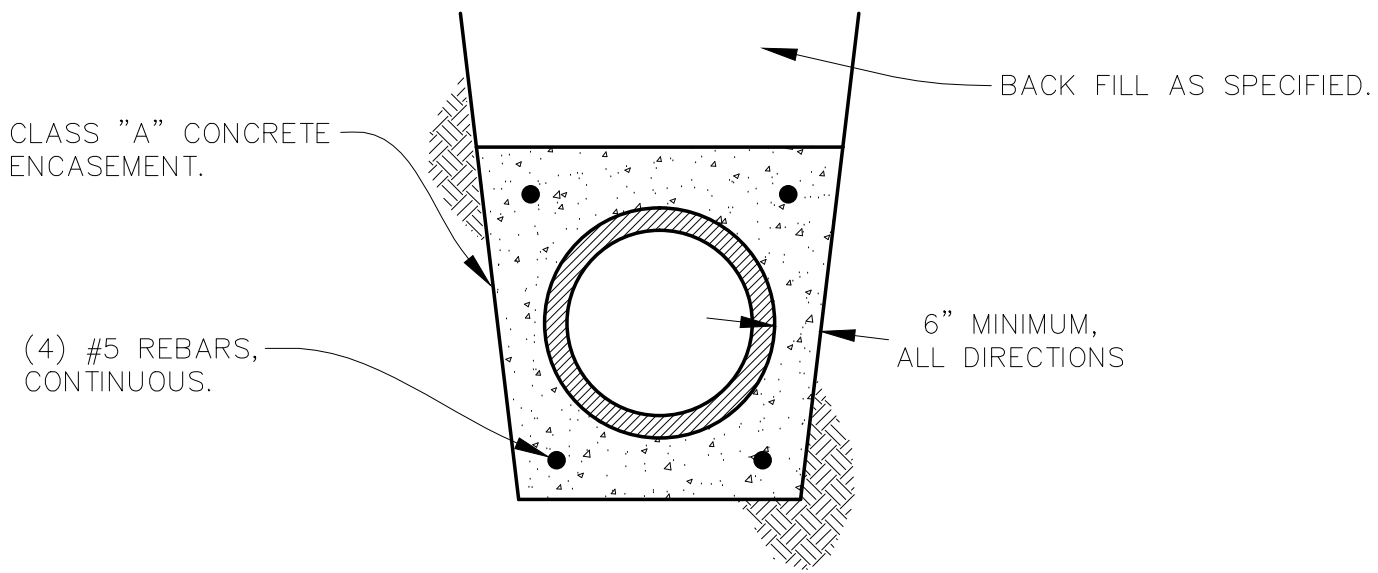


REVISED 09/01/2013

PROJECT NAME		PROJECT SHEET NUMBER	
		of	
CITY OF LAFAYETTE			
(800) 382-5544	HOLEY MOLEY	20 NORTH SIXTH STREET LAFAYETTE, INDIANA 47901	DATE JUNE 2013
(765) 807-1050	CITY ENGINEER		SHEET 8 OF 12
(765) 807-1800	WATER POLLUTION CONTROL-SEWERS		
(765) 807-1700	WATER WORKS		
(765) 807-1600	FIRE DEPT.		
(765) 807-1210	POLICE DEPT.	TYPICAL DETAILS AND NOTES	

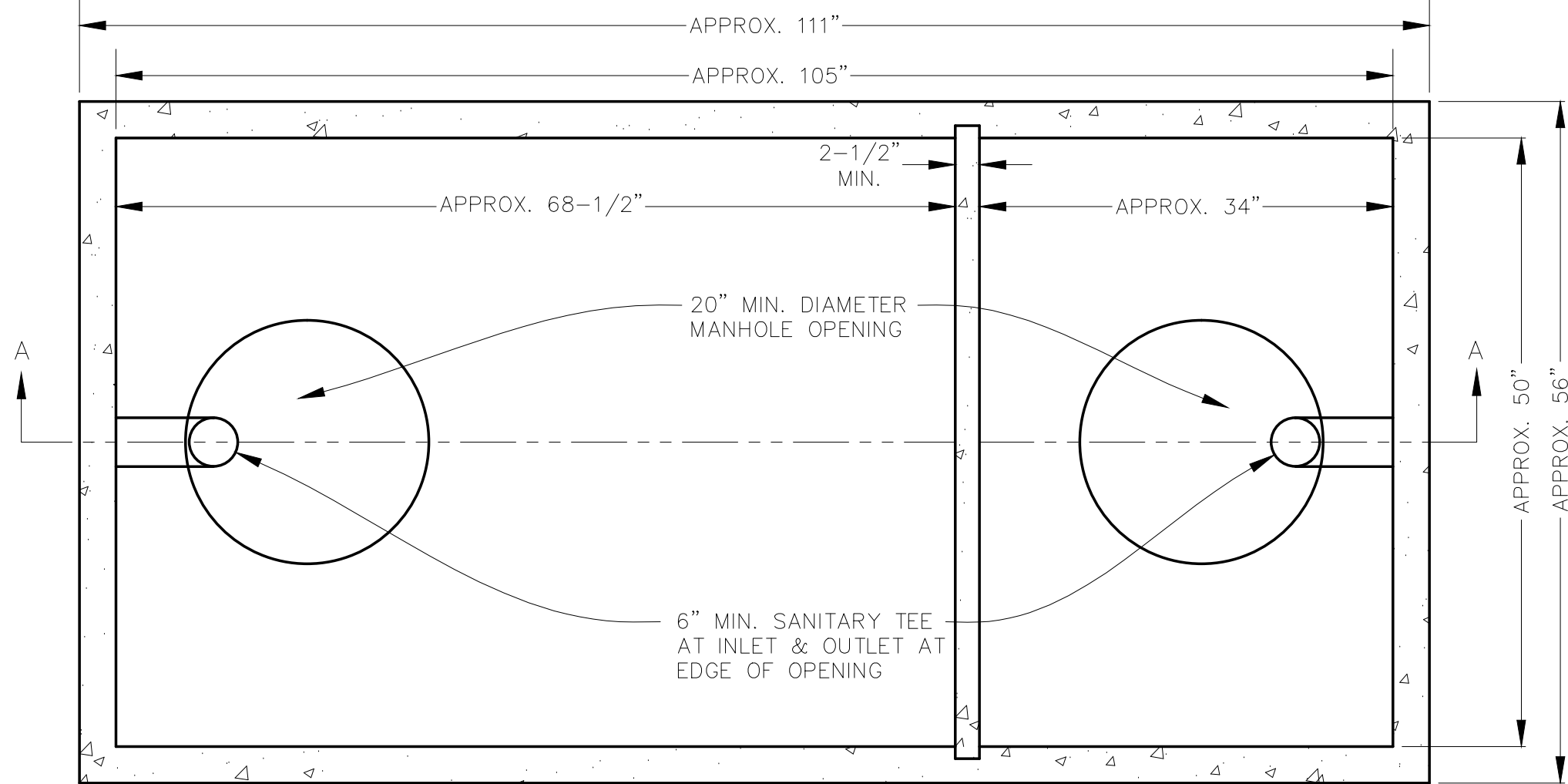
GENERAL NOTES

1. ALL PROPOSALS WITH FLOW CALCULATIONS SHALL BE SUBMITTED TO THE CITY IN WRITING FOR THEIR APPROVAL.
2. GREASE INTERCEPTOR/OIL & GRIT SEPARATOR SIZE SHALL BE 1000 GAL. MINIMUM.
3. DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENT.
4. ADEQUATE STRUCTURAL STRENGTH SHOULD BE PROVIDED TO ACCOMMODATE VEHICULAR TRAFFIC.
5. WHENEVER PROPRIETARY EQUIPMENT IS SPECIFIED, "OR APPROVED EQUAL" IS IMPLIED.
6. RATIO OF L X W X D IS APPROXIMATELY 2:1:1.
7. INTERIOR BAFFLE WALL EITHER PRECAST OR BLOCKED.
8. ANY GREASE INTERCEPTOR/OIL & GRIT SEPARATOR OVER 10 FEET LONG NEEDS THIRD MANWAY ADDED.
9. SIX INCH (6") MIN. CLEAN OUT ON INLET 4' FROM FOUNDATION AND 6" MIN. CLEAN OUT ON OUTLET END OF INTERCEPTOR/SEPARATOR.
10. FOR A GREASE INTERCEPTOR THE DISTANCE FROM THE TANK BOTTOM TO THE PVC DROP LEG IS 12 INCHES MAXIMUM.
11. FOR AN OIL & GRIT SEPARATOR THE DISTANCE FROM THE TANK BOTTOM TO THE PVC DROP LEG IS 24 INCHES MAXIMUM OR AS APPROVED.
12. PORTS THROUGH INTERIOR BAFFLE WALL CAN BE ROUND (SHOWN), RECTANGULAR, OR AS APPROVED.



PIPE ENCASEMENT DETAIL

NOT TO SCALE
PIPE-ENC.DWG 7/2/98



NOTE: THIS DETAIL TO BE USED WHEN A MAIN, SEWER OR WATER, CROSSES WITHIN 18" OF ANOTHER PIPE OR CONDUIT.

PIPE CROSSING DETAIL

NOT TO SCALE
PIPE-X.DWG 7/2/98

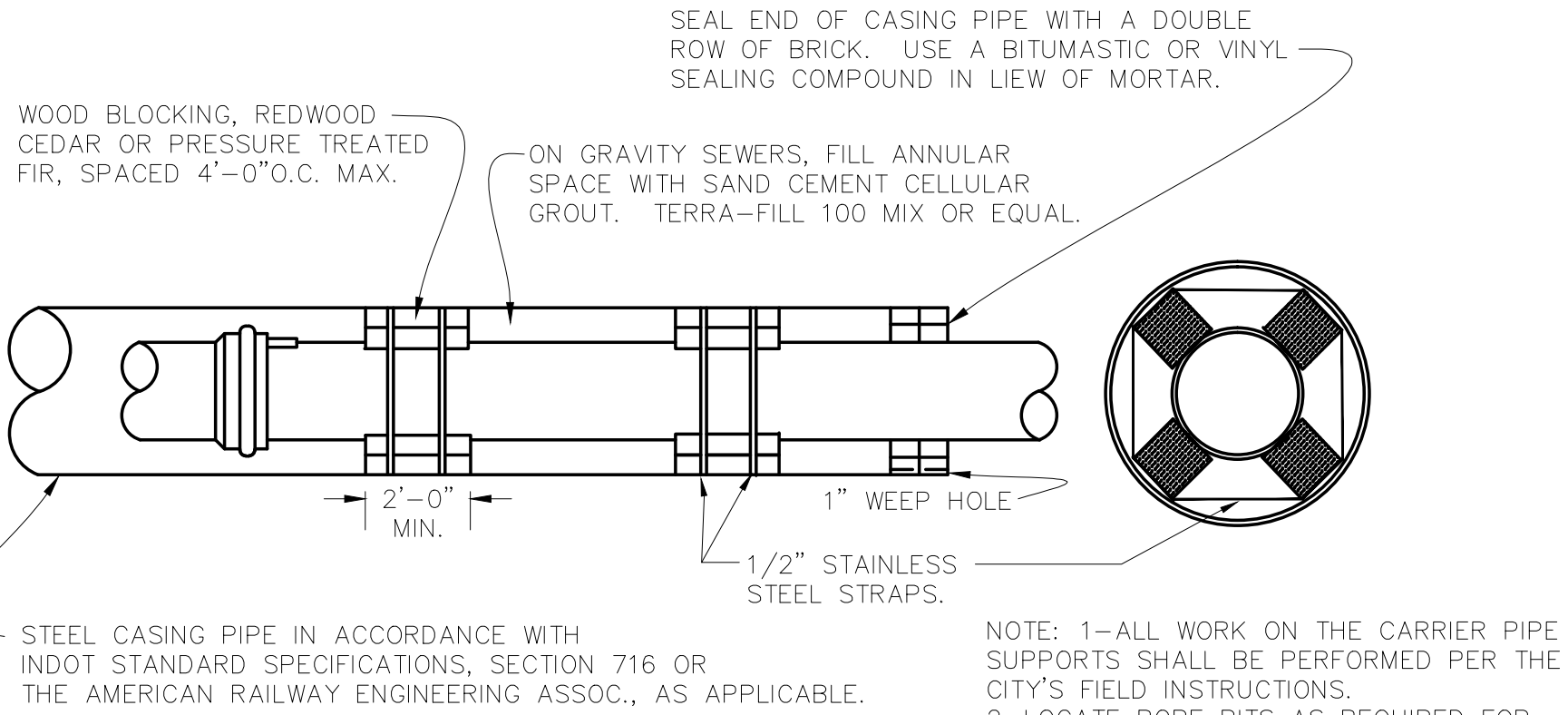
THE CASING PIPE SHALL BE WELDED STEEL PIPE, NEW AND UNUSED MATERIAL, IN ACCORDANCE WITH CURRENT ASTM SPECIFICATION A-139, GRADE B FOR "ELECTRIC FUSION OF WELDED STEEL PIPE", WITH A MINIMUM YIELD OF 35,000 PSI.

THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE AT LEAST SIX (6) INCHES GREATER THAN THE LARGEST DIAMETER OF THE PIPELINE JOINT.

THE MINIMUM WALL THICKNESS OF THE CASING PIPE SHALL BE AS LISTED IN THE FOLLOWING TABLE OR AS SHOWN ON THE APPLICABLE DRAWINGS:

DIAMETER OF CASING	WALL THICKNESS (IN.)	
	UNDER HIGHWAY	UNDER RAILROAD
16" OR SMALLER	0.250	0.312
18"	0.250	0.312
20"	0.312	0.344
24"	0.375	0.438
30"	0.500	0.563
30" THROUGH 42"	0.625	0.625
48"	0.875	0.875
54"	1.00	1.00
66"		

CASING SPECIFICATION



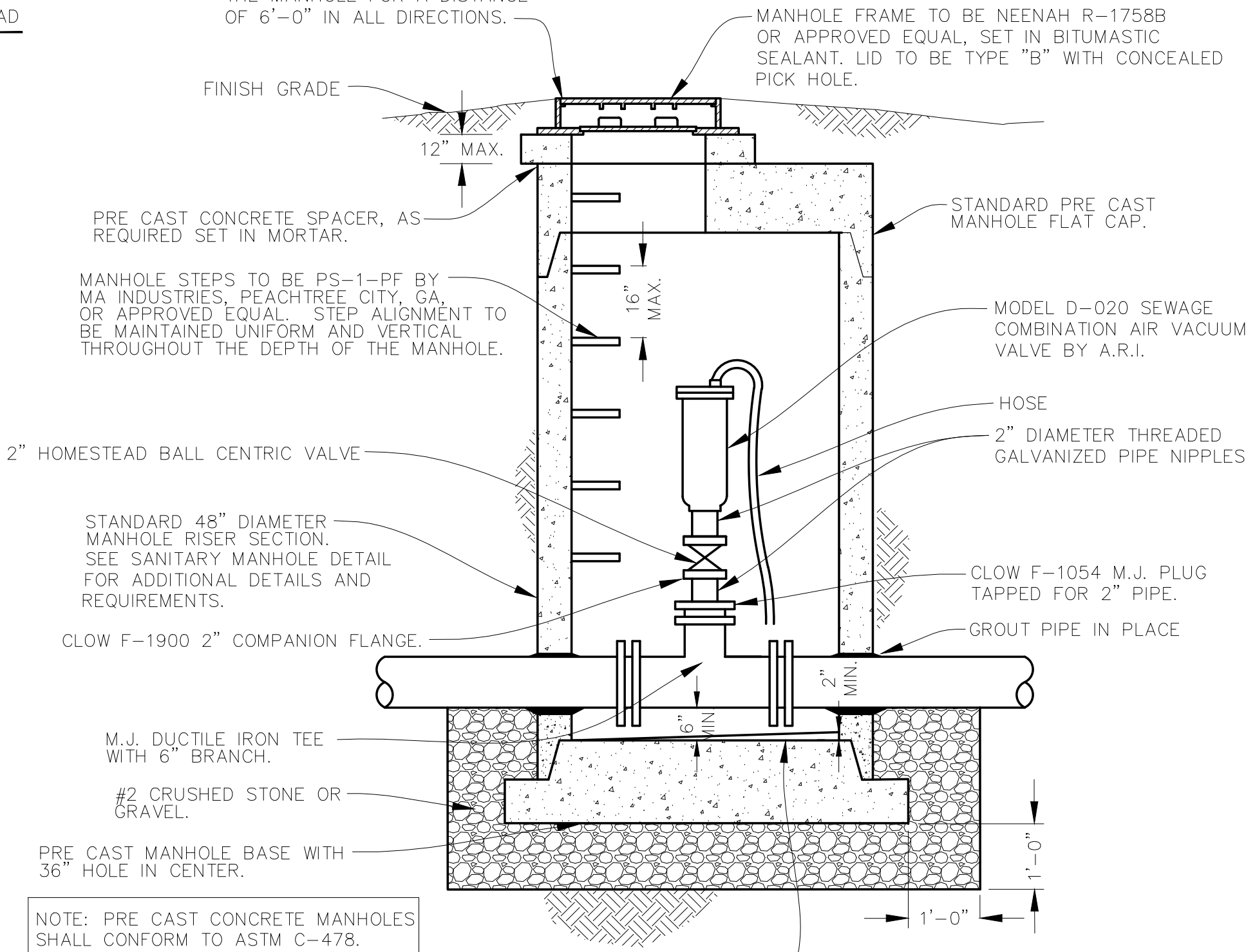
STEEL CASING PIPE IN ACCORDANCE WITH INDOT STANDARD SPECIFICATIONS, SECTION 716 OR THE AMERICAN RAILWAY ENGINEERING ASSOC., AS APPLICABLE.

NOTE: 1-ALL WORK ON THE CARRIER PIPE SUPPORTS SHALL BE PERFORMED PER THE CITY'S FIELD INSTRUCTIONS.
2-LOCATE BORE PITS AS REQUIRED FOR STATE OR FEDERAL HIGHWAY OR RAILROAD, AS APPLICABLE.

PIPE CASING DETAIL

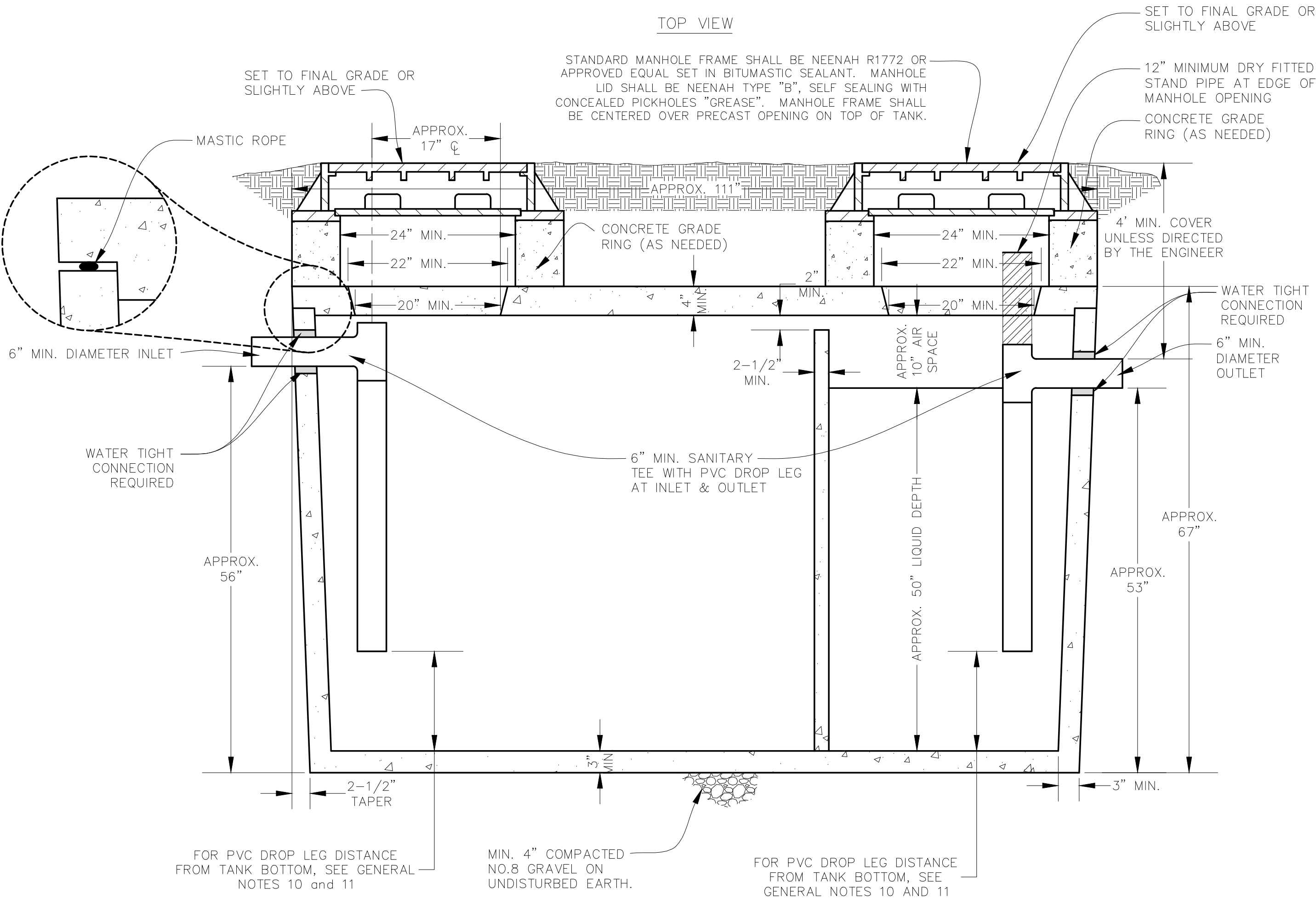
(NOT TO SCALE)

TOP OF LID SHALL BE 1'-0" ABOVE THE SURROUNDING GRADE SLOPING AWAY FROM THE MANHOLE FOR A DISTANCE OF 6'-0" IN ALL DIRECTIONS.



SEWAGE FORCE MAIN AIR RELEASE MANHOLE

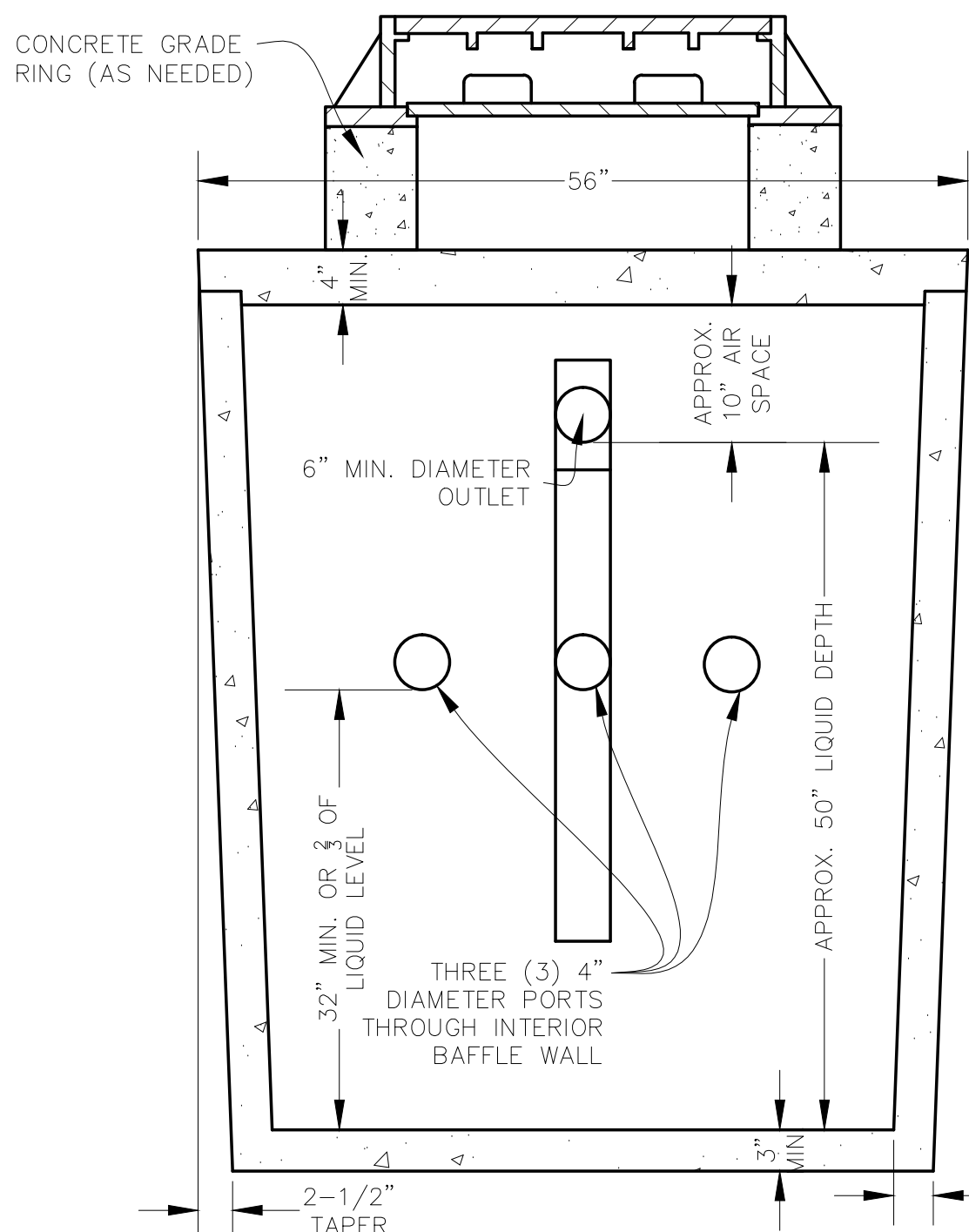
NOT TO SCALE (Force mains 4"Ø to 12"Ø)
AIR-REL.DWG 7/2/98



SECTION A-A

GREASE INTERCEPTOR/OIL AND GRIT SEPARATOR (COMMERCIAL)

NOT TO SCALE
GRSTRP.DWG 6/20/13



SIDE VIEW

REVISED 09/01/2013

CITY OF LAFAYETTE			
(800) 382-5544	HOLEY MOLEY	20 NORTH SIXTH STREET LAFAYETTE, INDIANA 47901	DATE JUNE 2013
(765) 807-1050	CITY ENGINEER		SHEET 9 OF 12
(765) 807-1800	WATER POLLUTION CONTROL-SEWERS	MISCELLANEOUS UTILITY TYPICAL DETAILS AND NOTES	
(765) 807-1700	WATER WORKS		
(765) 807-1600	FIRE DEPT.		
(765) 807-1210	POLICE DEPT.		

STORM SEWER NOTES

- NOTES-STANDARD 7/2/98
- STORM SEWER PIPE AND APPURTENANCES SHALL CONFORM TO CITY OF LAFAYETTE SPECIFICATIONS FOR DESIGN AND QUALITY OF CONSTRUCTION, AND CITY OF LAFAYETTE ORDINANCE NO. 89-38, THE LAFAYETTE STORM DRAINAGE AND SEDIMENT CONTROL ORDINANCE, FOR DESIGN AND MATERIALS.
 - CONSTRUCTION PROCEDURES AND MATERIALS SHALL COMPLY WITH APPLICABLE SECTIONS OF THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS LATEST EDITION
 - PIPE AND FITTINGS USED IN STORM SEWER CONSTRUCTION SHALL BE DUCTILE IRON PIPE (AWWA C-151), CONCRETE PIPE (ASTM C-76), PVC PIPE (4"-24" ONLY; ASTM 3034-SDR 35, ASTM F-679, OR ASTM F-794). HOBAS PIPE (24" AND LARGER ONLY; ASTM D3262, D4161, D2412, FIBERGLASS SLEEVE COUPLINGS USING ELASTOMERIC SEALING GASKETS MADE OF EPDM COMPOUND PER ASTM D 4161), ADS N-12 (36") AND ADS N-12HC (42"-48" ONLY) DUAL WALL SINGLE MOLD HDPE PIPE WITH WATER TIGHT INTEGRAL BELL COUPLERS (AASHTO M-294, ASTM F-667). OTHER PIPE AND FITTINGS NOT SPECIFIED HEREIN MAY BE USED ONLY WHEN SPECIFICALLY AUTHORIZED IN WRITING BY THE CITY.
 - ALL STORM SEWERS SHALL BE HIGH PRESSURE WATER JET CLEANED. MAINLINE STORM SEWERS (MANHOLE TO MANHOLE) SHALL BE TELEVIEWED. LATERAL STORM SEWERS (MANHOLE TO INLET, INLET TO INLET) IN EXCESS OF 40 FT. SHALL ALSO BE TELEVIEWED. MAINLINE STORM SEWERS AND LATERAL STORM SEWERS THAT ARE 36" DIAMETER OR LESS SHALL BE SUBJECTED TO A DEFLECTION TEST USING A GO-NO-GO MANIPUL (95% DIAMETER) WHEN CONSTRUCTED USING FLEXIBLE PIPE CONDUIT MATERIALS. MAINLINE STORM SEWERS AND LATERAL STORM SEWERS THAT ARE GREATER THAN 36" DIAMETER REQUIRE THIRD PARTY TESTING AND CERTIFICATION (DAILY) OF THE BEDDING INSTALLATION WHEN CONSTRUCTED USING FLEXIBLE PIPE CONDUIT MATERIAL. CLEANING, TESTING AND TELEVIEWING SHALL BE PERFORMED A MINIMUM OF 45 DAYS AFTER INSTALLATION, AND SHALL BE WITNESSED BY THE CITY. ALL COSTS OF CLEANING, TESTING AND TELEVIEWING ARE TO BE BORNE BY THE CONTRACTOR. A COPY OF THE TV TAPE (VHS FORMAT) SHALL BE RETAINED BY THE CITY.
 - TRENCHES UNDER PAVED AREAS (EXCLUDING SIDEWALKS) SHALL BE BACK FILLED WITH GRANULAR MATERIAL PER INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS 1999 EDITION SECTION 211 AND COMPACTED IN LIFTS. GRANULAR MATERIAL TO EXTEND FIVE FEET BEYOND THE LIMITS OF THE PAVED AREA WITH A 1:1 SLOPE TO THE BOTTOM OF THE TRENCH.
 - CONFIGURATION OF INLETS IN PRIVATE PARKING OR DRIVING AREAS MAY BE VARIED TO ACCOMMODATE THE DIMENSIONS OF THE CASTINGS. PRIOR WRITTEN APPROVAL OF THE CITY IS REQUIRED.
 - 18" VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION TO BE MAINTAINED BETWEEN WATER MAINS, HYDRANTS, STORM SEWERS, AND SANITARY SEWERS.
 - SEWER PERMIT AND CITY INSPECTION REQUIRED FOR ALL CONNECTIONS TO STORM OR SANITARY SEWER SYSTEMS SEWER PERMIT REQUIRED ON SITE DURING ANY SEWER CONSTRUCTION
 - ALL TAPS TO CONCRETE PIPE SHALL BE MADE WITH BOOT AND SADDLE CONNECTORS
 - ALL INLETS SHALL BE DEPRESSED 0.1 FT. BELOW PLAN GRADE.
 - ALL SEWER LINES SHALL HAVE 0.1 FT. DROP THROUGH MANHOLES.
 - CASTINGS SHALL BE CENTERED ON OPENING IN STRUCTURES.
 - MINIMUM 4" OPENING REQUIRED ON BACK OF CURB INLET CASTING.
 - TOP OF MANHOLE FRAMES TO BE SET AT PROPOSED YARD OR SIDEWALK GRADE WHEN LOCATED IN FRONT AREA OF LOT OR RIGHT OF WAY.
 - BICYCLE SAFE GRATES REQUIRED IN PAVED AREAS EXCLUDING, PAVED FLOW LINES IN SWALES OR DETENTION AREAS
 - ANIMAL GUARDS SHALL BE PERMANENTLY INSTALLED ON ALL PIPE END SECTIONS 18" OR LARGER IN DIAMETER. GUARDS SHALL HAVE A MAXIMUM CLEAR OPENING OF 4" AND BE REMOVABLE.
 - IF ANY EXISTING FIELD TILE SYSTEMS ARE ENCOUNTERED DURING THE CONSTRUCTION PROCESS THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTING THE TILE TO ITS ORIGINAL CONDITIONS OR CONNECT IT INTO THE PROPOSED STORM DRAINAGE SYSTEM
 - WHENEVER PROPRIETARY EQUIPMENT IS SPECIFIED OR APPROVED "EQUAL IS IMPLIED ALL PROPOSALS FOR SUBSTITUTION SHALL BE SUBMITTED TO THE CITY IN WRITING FOR THEIR APPROVAL .

TELEVISION INSPECTION CRITERIA

STORM SEWERS

NOTES-STANDARD 7/2/98

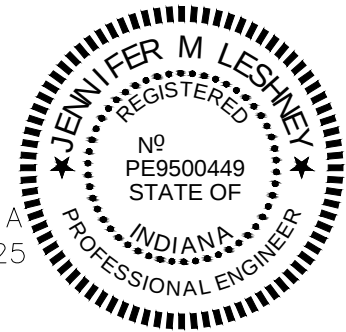
SEWERS SHALL BE "FLOODED" BEFORE TELEVISION INSPECTION. THE IMAGE SHALL BE CLEAR ENOUGH TO ENABLE THE CITY REPRESENTATIVE AND OTHERS VIEWING THE MONITOR TO EASILY EVALUATE THE INTERIOR CONDITION OF THE PIPE.

ALL UNACCEPTABLE CONDITIONS FOUND DURING TELEVISION INSPECTION MUST BE CORRECTED BY THE CONTRACTOR AND RETELEVIEWED.

UNACCEPTABLE CONDITIONS ARE CONDITIONS THAT ADVERSELY EFFECT THE ABILITY OF THE SYSTEM TO FUNCTION AS DESIGNED OR TO BE PROPERLY MAINTAINED AND MAY INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- A. PROTRUDING TAPS
B. CRACKED OR FAULTY PIPE
C. MISALIGNED OR DEFORMED PIPE
D. DEBRIS IN LINE
E. INFILTRATION/EXFILTRATION
F. EXCESSIVE GAPS AT JOINTS
G. BELLIES OR SAGS WITH A DEPTH GREATER THAN OR EQUAL TO 10% (OR A MAXIMUM OF 3") OF PIPE DIAMETER AND/OR A LENGTH GREATER THAN 25 FEET

DETAILS AS TO REQUIRED TELEVISION EQUIPMENT AND REQUIRED TELEVISION INSPECTION REPORT ARE AVAILABLE FROM THE CITY ENGINEER'S OFFICE.

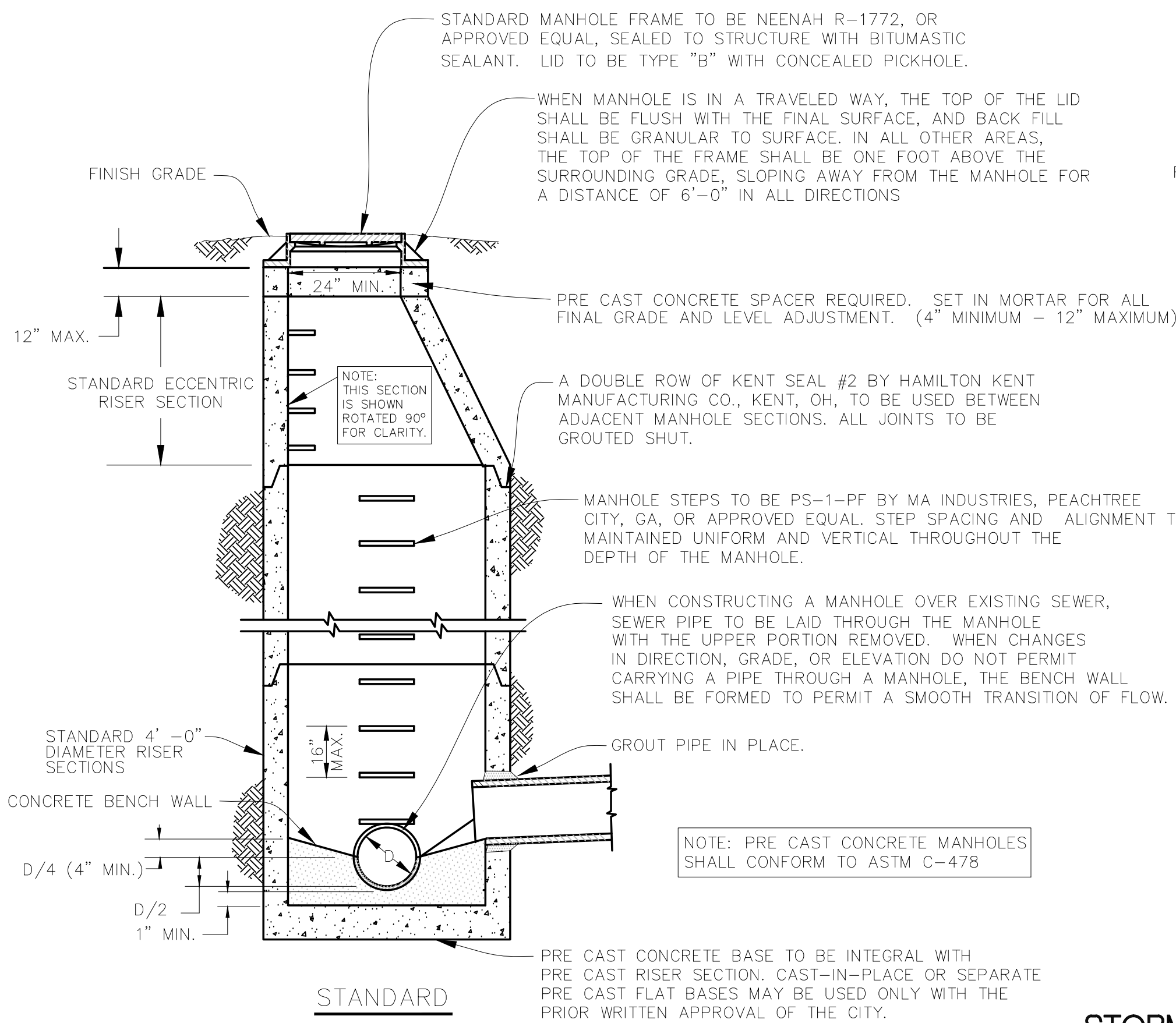


REVISED 09/01/2013

PROJECT NAME	PROJECT SHEET NUMBER
	of

CITY OF LAFAYETTE

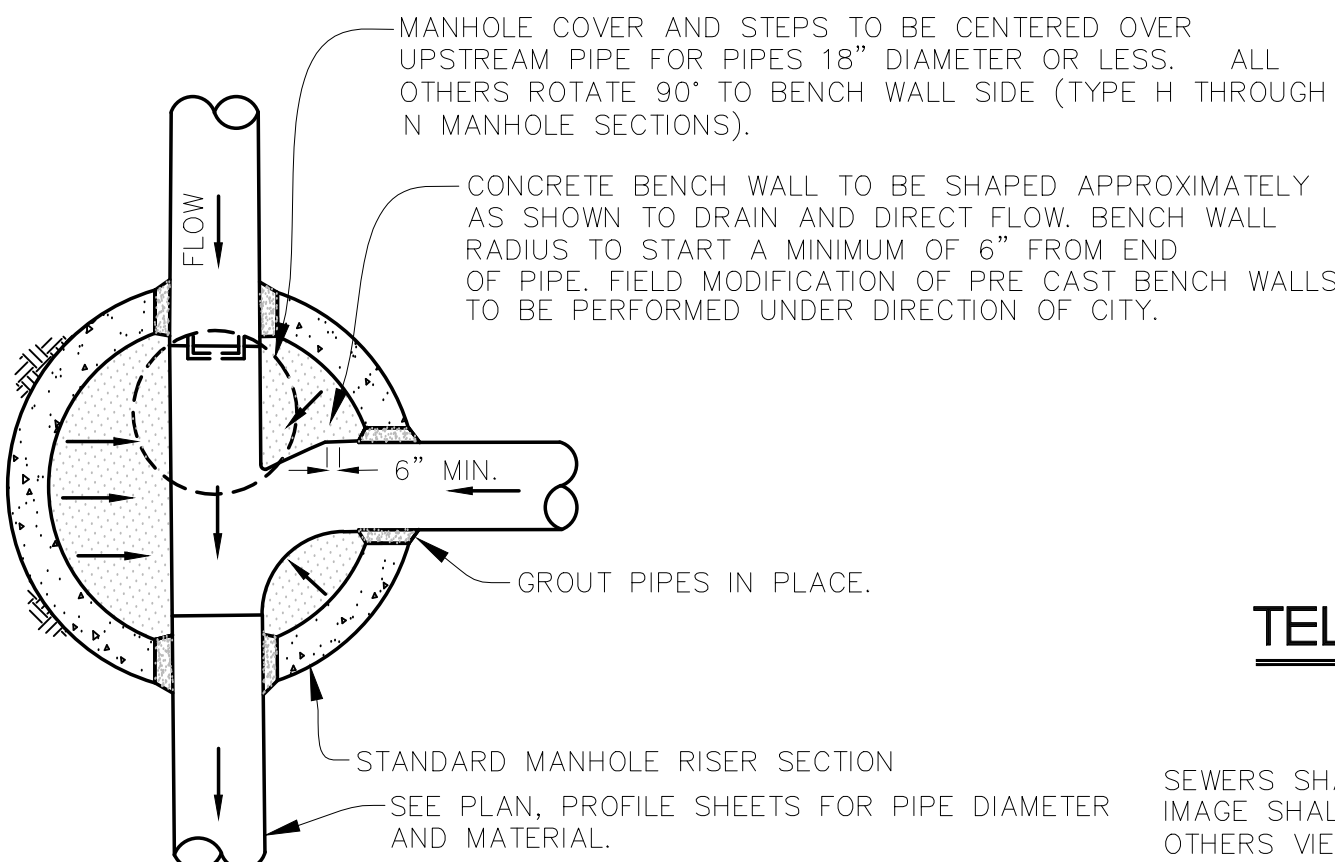
(800) 382-5544	HOLEY MOLEY	20 NORTH SIXTH STREET LAFAYETTE, INDIANA 47901	DATE JUNE 2013
(765) 807-1050	CITY ENGINEER		STORM SEWER TYPICAL DETAILS AND NOTES
(765) 807-1800	WATER POLLUTION CONTROL-SEWERS		
(765) 807-1700	WATER WORKS		
(765) 807-1600	FIRE DEPT.		
(765) 807-1210	POLICE DEPT.		



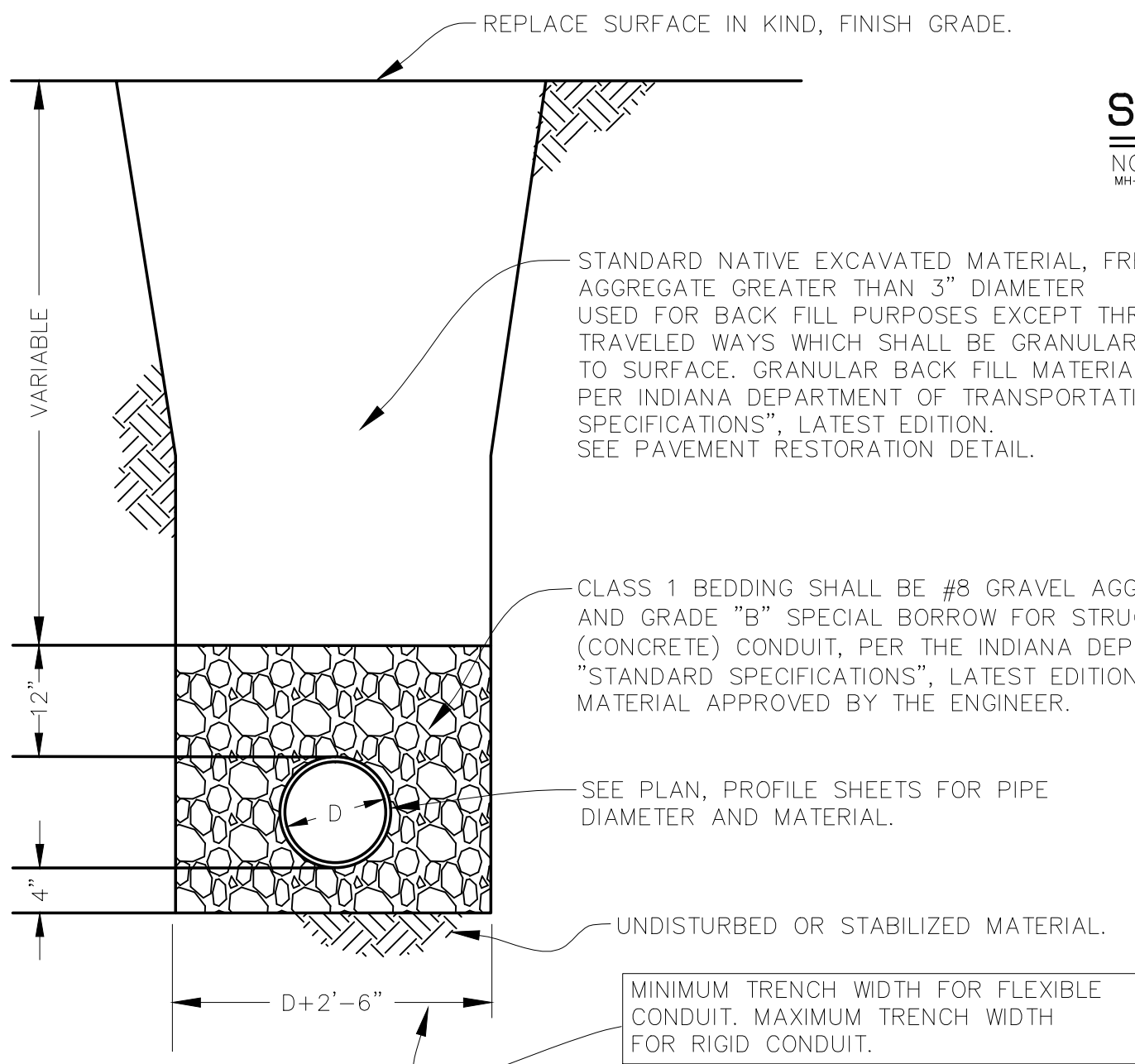
STORM SEWER MANHOLE SECTIONS

NOT TO SCALE
WH-SECTION 7/2/98

MANHOLE SELECTION TABLE RECTANGULAR		
TYPE	PIPE DIAMETER D	WIDTH (MIN) A
STANDARD	UP TO 24"	48"
D	27"-42"	60"
E	48"-60"	78"
F	66"-84"	108"
G	90"-108"	132"

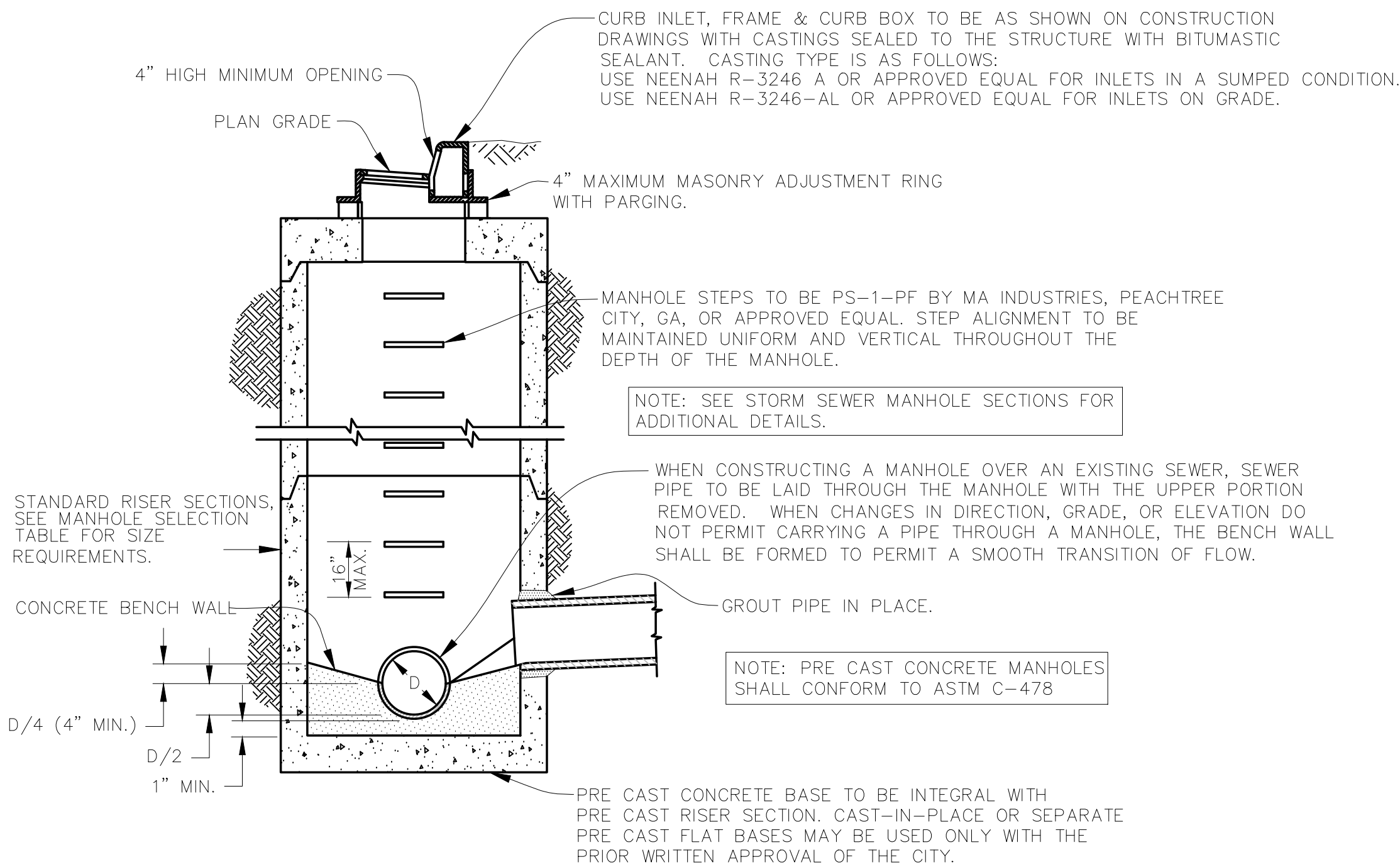


STORM SEWER MANHOLE PLAN



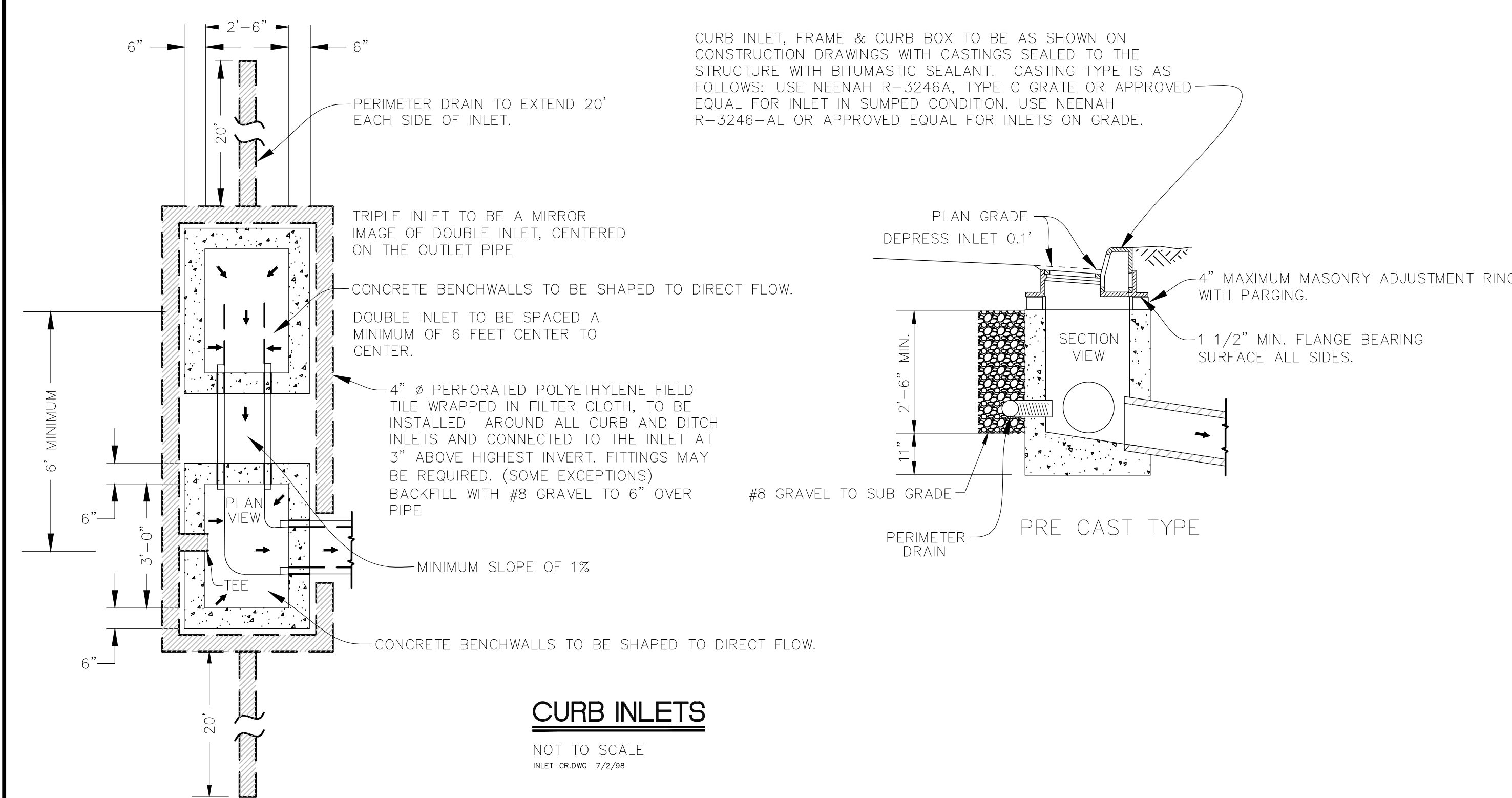
STANDARD BEDDING DETAIL

NOT TO SCALE
BEDDING-DWG 7/2/98



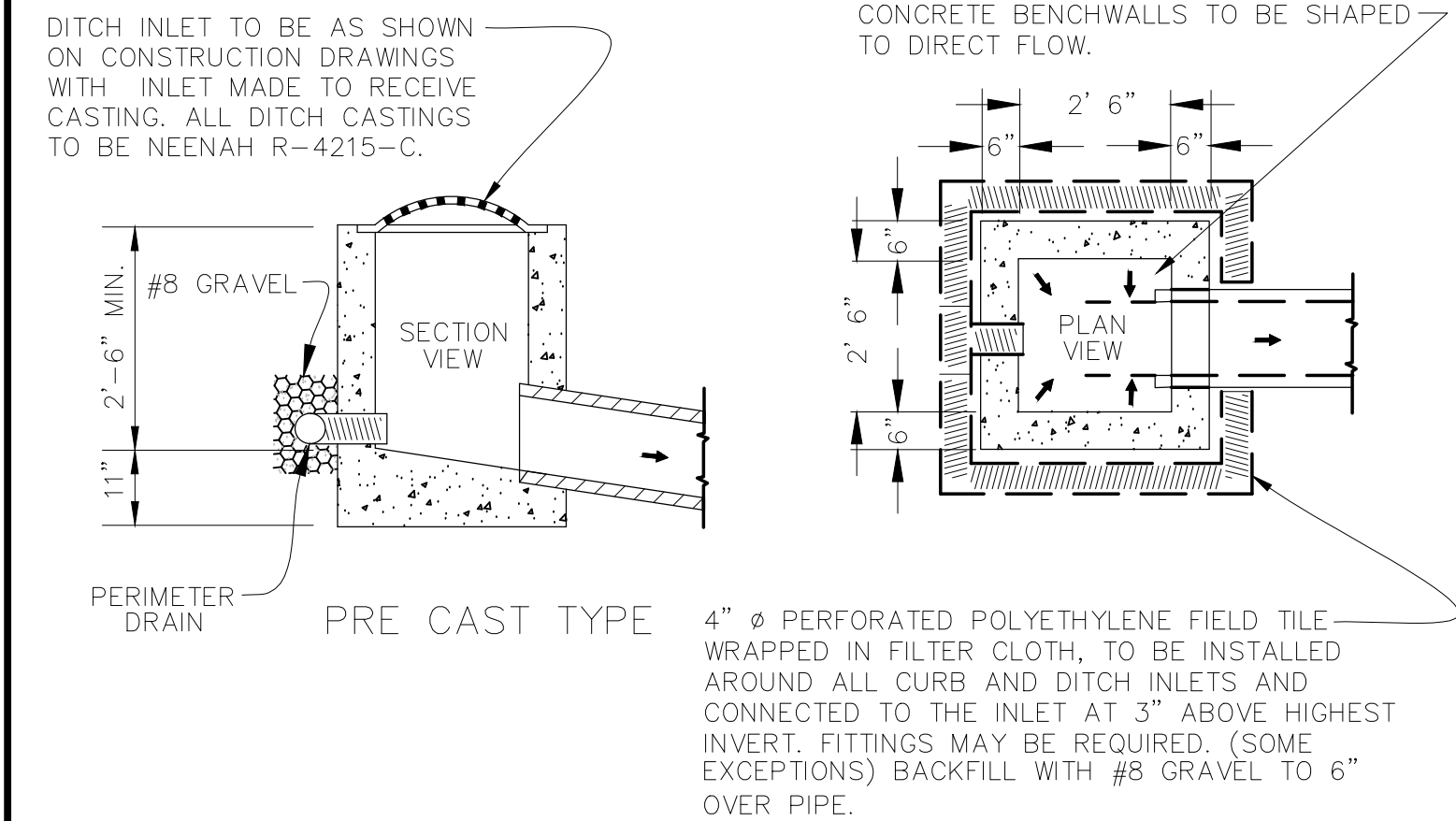
STORM SEWER MANHOLE - INLET

NOT TO SCALE
INLET-STANDARD 7/2/98



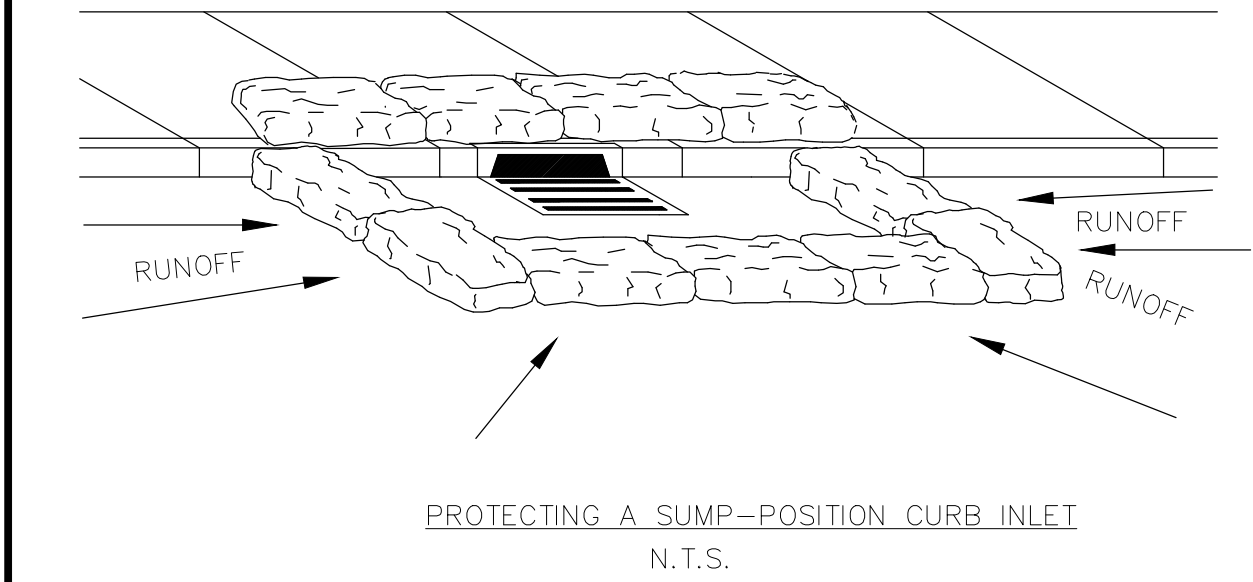
CURB INLETS

NOT TO SCALE
INLET-DWG 7/2/98



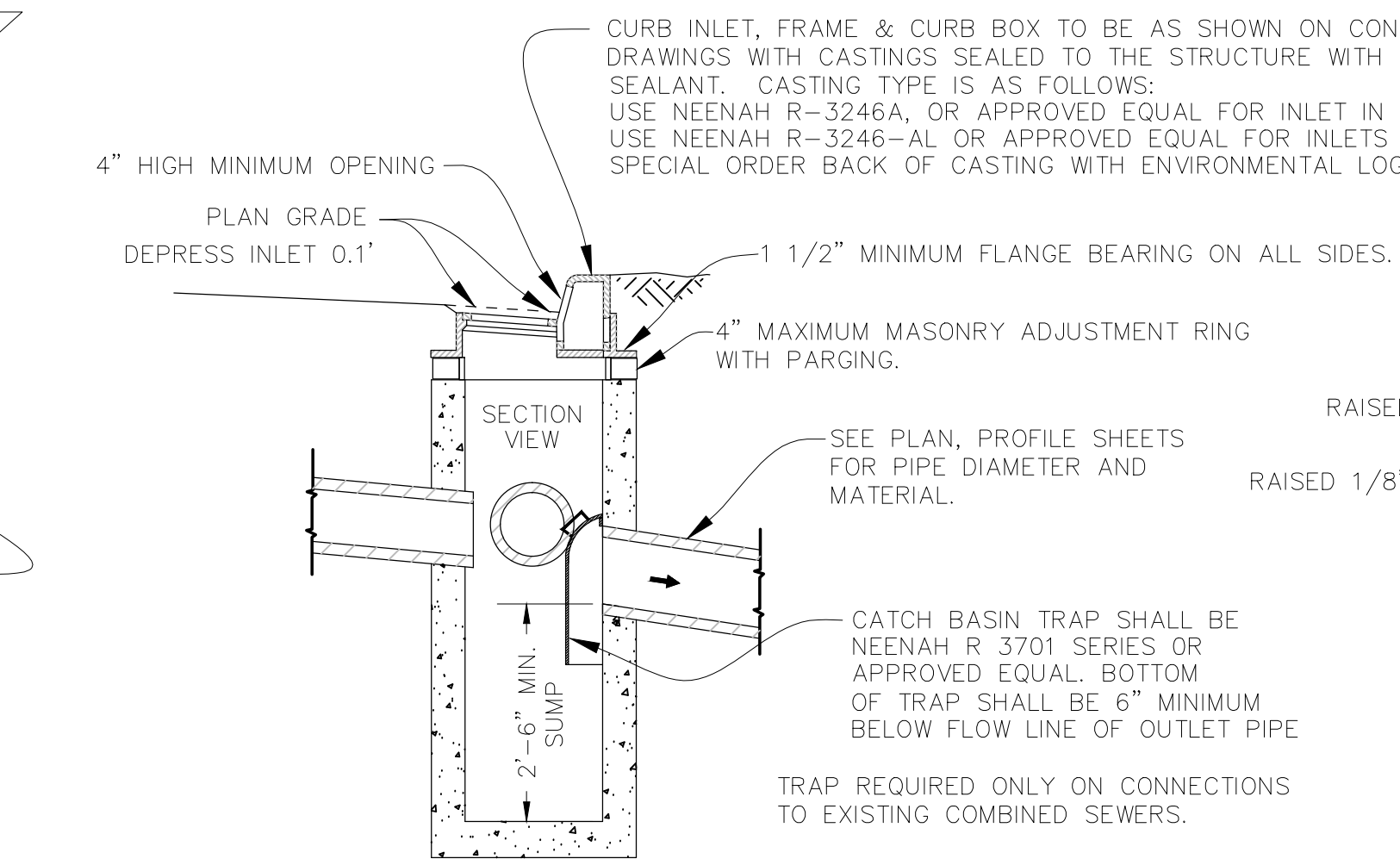
DITCH INLETS

NOT TO SCALE
INLET-DWG 7/2/98



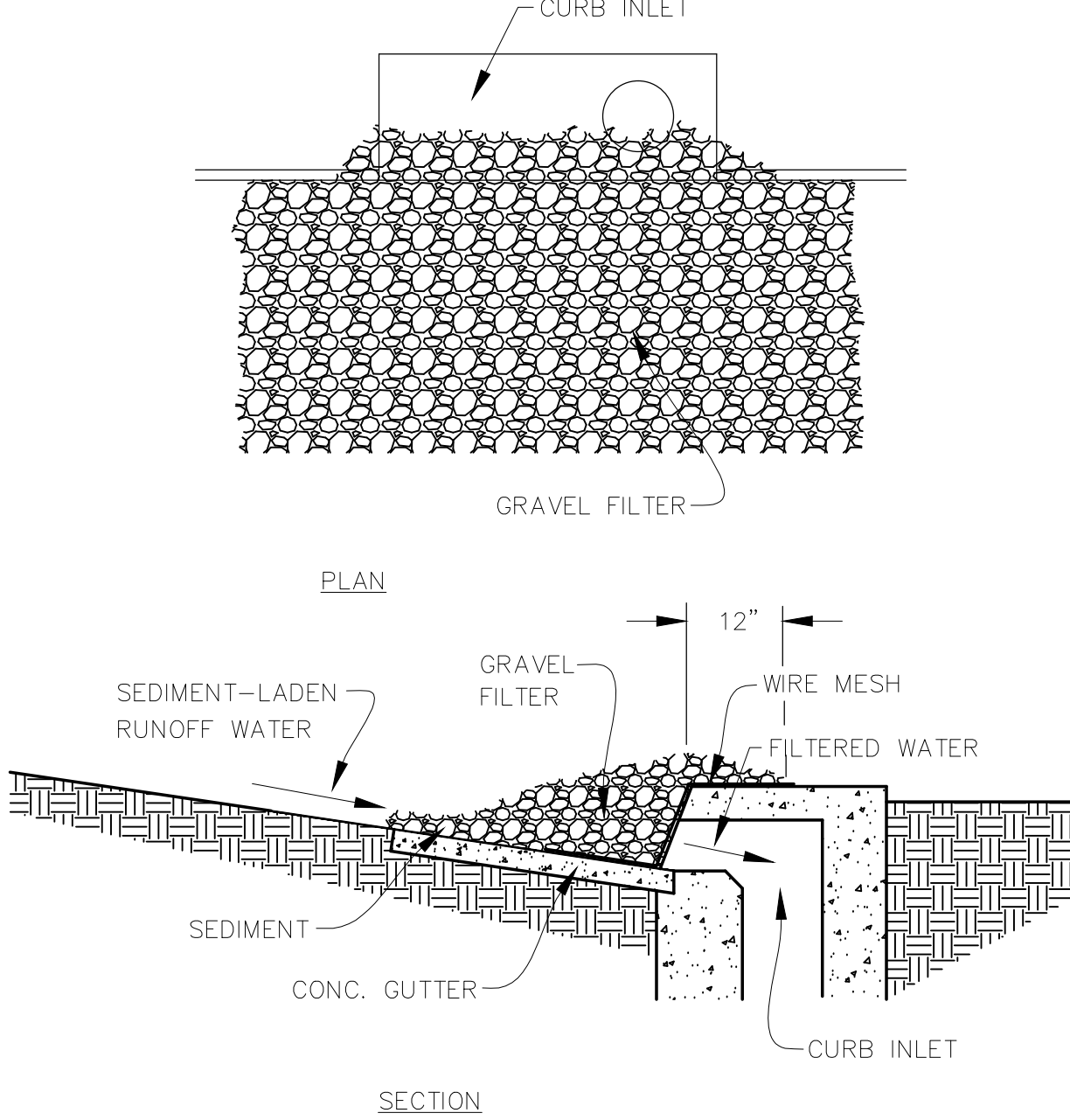
GRAVEL FILTER BAGS

CURB INLET PROTECTION



CATCH BASIN

NOT TO SCALE
CATCH-BWG 7/2/98



GRAVEL FILTER

CURB INLET PROTECTION

EROSION CONTROL - SEEDING RECOMMENDATIONS

THIS TABLE PROVIDES SEVERAL SEEDING OPTIONS. ADDITIONAL SEED SPECIES AND MIXTURES ARE AVAILABLE COMMERCIALY. WHEN SELECTING A MIXTURE, CONSIDER SITE CONDITIONS, INCLUDING SOIL PROPERTIES (E.G. SOIL PH AND DRAINAGE), SLOPE ASPECT AND THE TOLERANCE OF EACH SPECIES TO SHADE AND DROUGHT.

SEED SPECIES AND MIXTURES RATE PER ACRE OPTIMUM SOIL PH

OPEN AND DISTURBED AREAS (REMAINING IDLE MORE THAN 1 YR.)

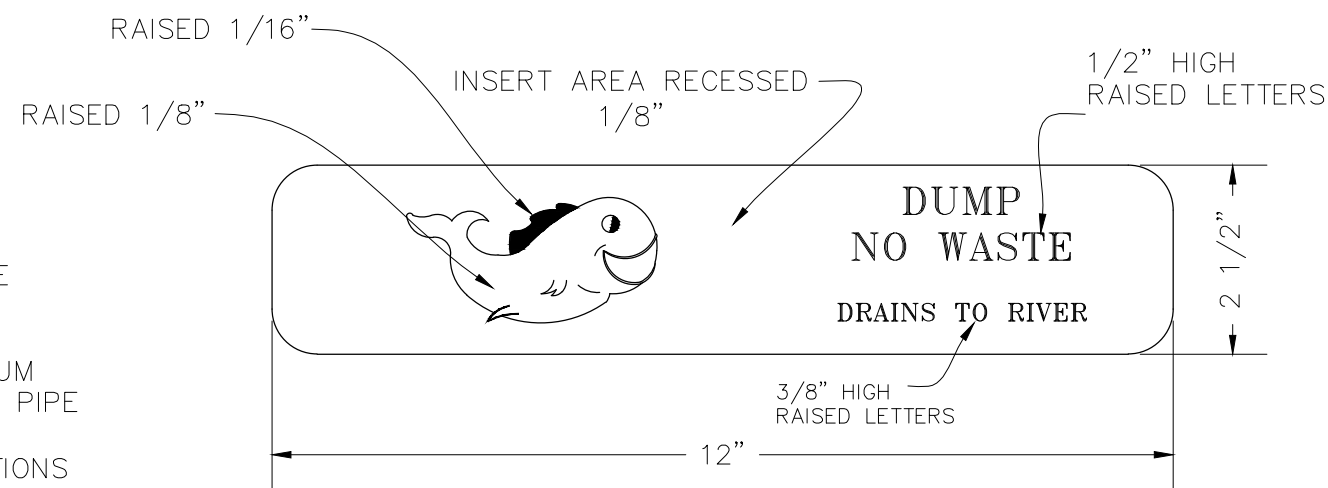
- | | | |
|--------------------------|------------|------------|
| 1. PERENNIAL RYEGRASS | 35-50 LBS. | 5.6 TO 7.0 |
| + WHITE OR LADINO CLOVER | 1-2 LBS. | |
| 2. KENTUCKY BLUEGRASS | 20 LBS. | 5.5 TO 7.5 |
| + SMOOTH BROMEGRASS | 10 LBS. | |
| + SWITCHGRASS | 3 LBS. | |
| + TIMOTHY | 4 LBS. | |
| + PERENNIAL RYEGRASS | 10 LBS. | |
| + WHITE OR LADINO CLOVER | 1-2 LBS. | |
| 3. PERENNIAL RYEGRASS | 15-30 LBS. | 5.6 TO 7.0 |
| + TALL FESCUE | 15-30 LBS. | |
| 4. TALL FESCUE | 35-50 LBS. | 5.5 TO 7.5 |
| + WHITE OR LADINO CLOVER | 1-2 LBS. | |

* FOR BEST RESULTS: (A) LEGUME SEED SHOULD BE INOCULATED; (B) SEEDING MIXTURES CONTAINING LEGUMES SHOULD PREFERABLY BE SPRING-SEEDED ALTHOUGH THE GRASS MAY BE FALL-SEEDED AND THE LEGUME FROST-SEEDED (PRACTICE 3.13); AND (C) IF LEGUMES ARE FALL-SEEDED, DO SO EARLY IN FALL.

FERTILIZE:
ACCORDING TO SOIL TEST OR USE 600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.

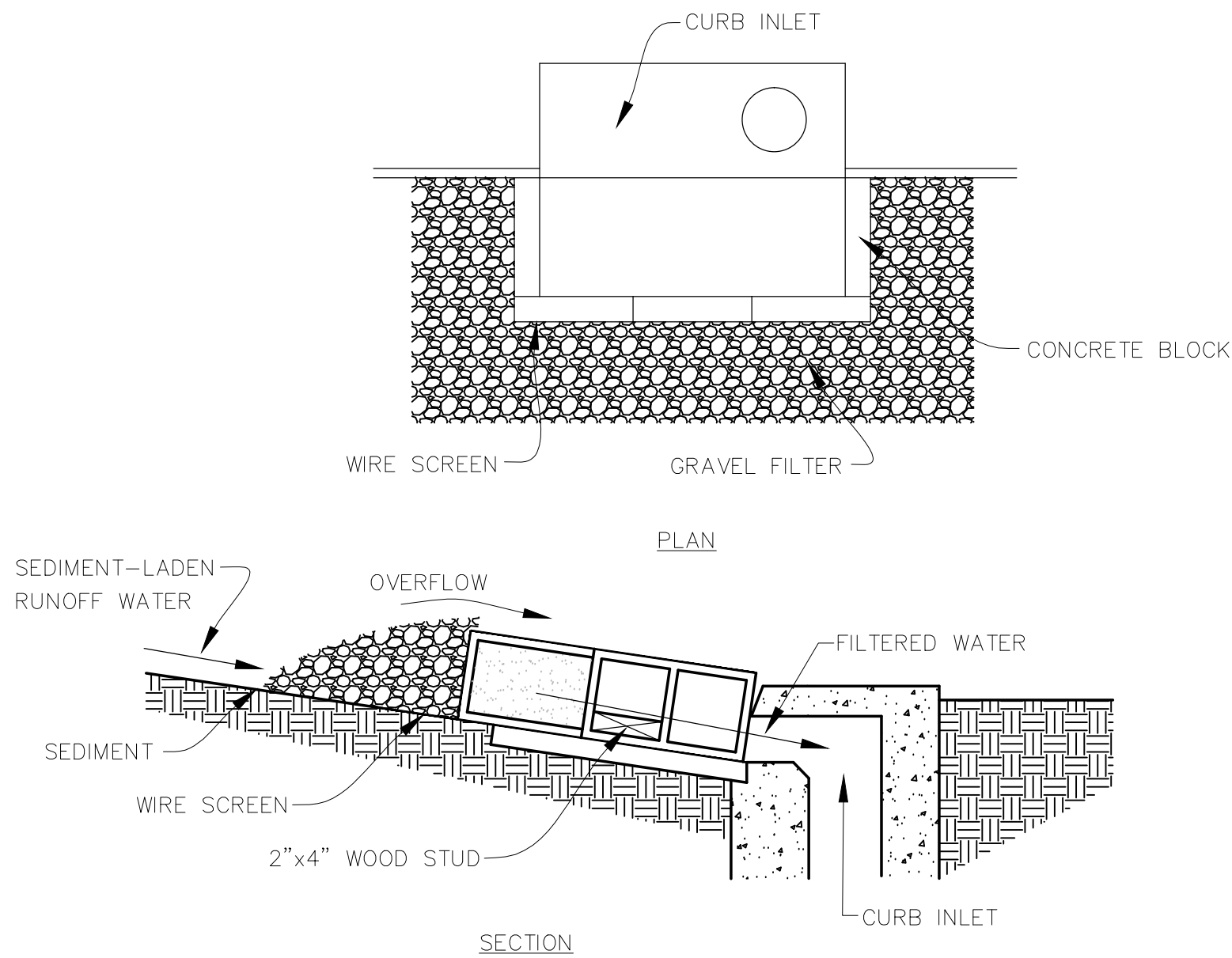
MULCH:
MULCH SHALL BE STRAW OR HAY. MATERIAL SHOULD BE DRY, UNCHOPPED FREE OF UNDESIRABLE SEEDS AND SPREAD BY HAND OR MACHINE. WOOD FIBER OR CELLULOSE MAY BE USED AND APPLIED WITH A HYDOMULCHER AND USE OF A TACKING AGENT.

STEEP BANKS AND CUTS, LOW MAINTENANCE AREAS (NOT MOWED) AND CHANNELS AND AREAS OF CONCENTRATED FLOW REQUIRE ALTERNATE SEEDING AND MULCH ANCHORING METHODS. REFER TO INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS.



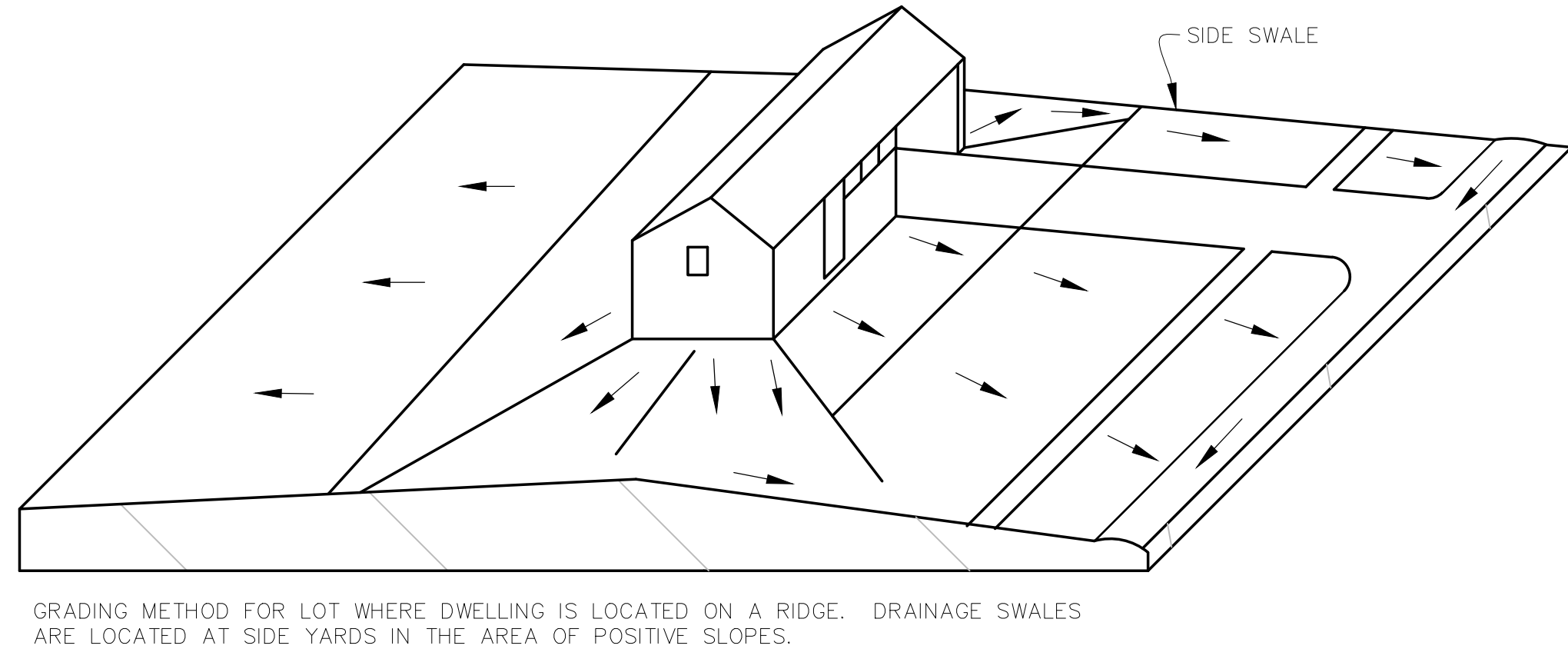
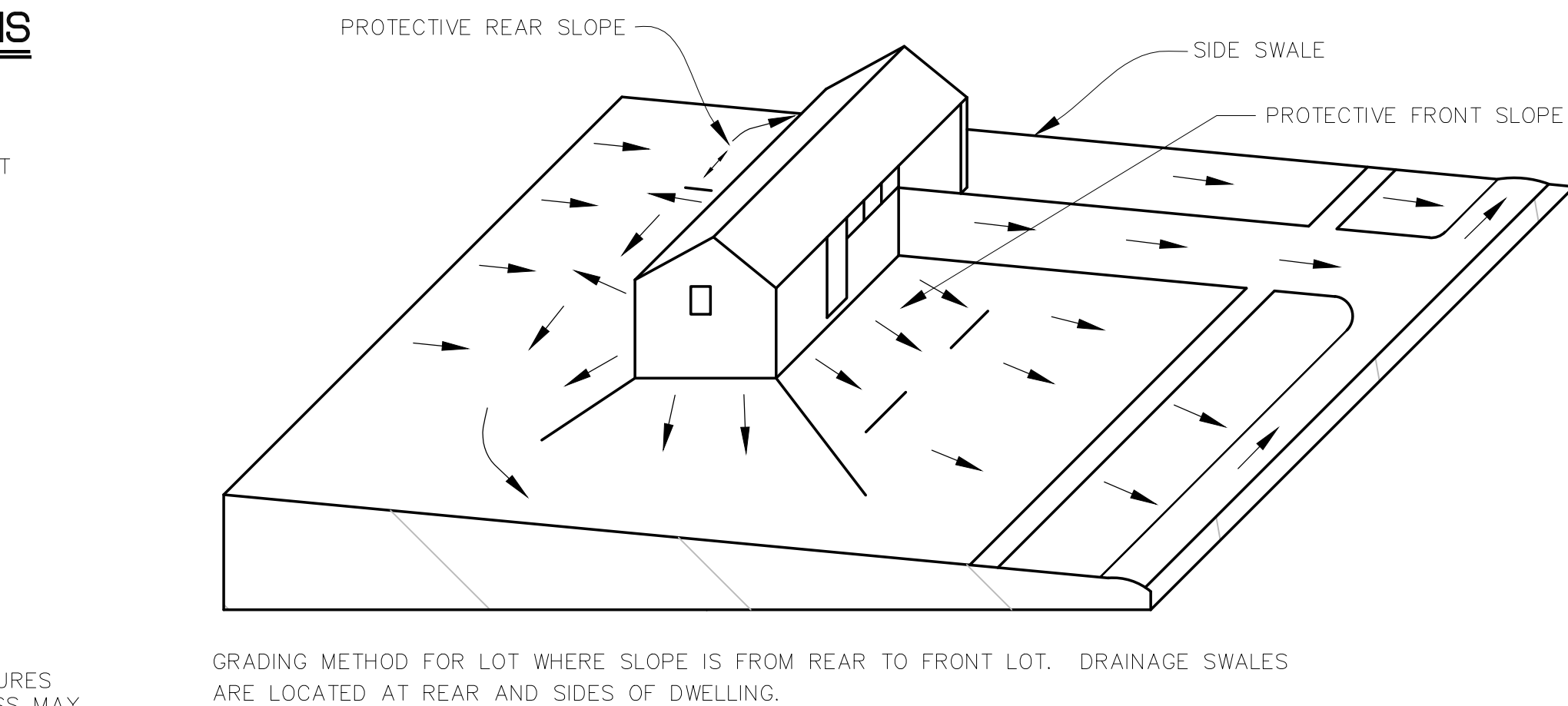
LOGO DETAIL (TOP OF BOX)

NOT TO SCALE



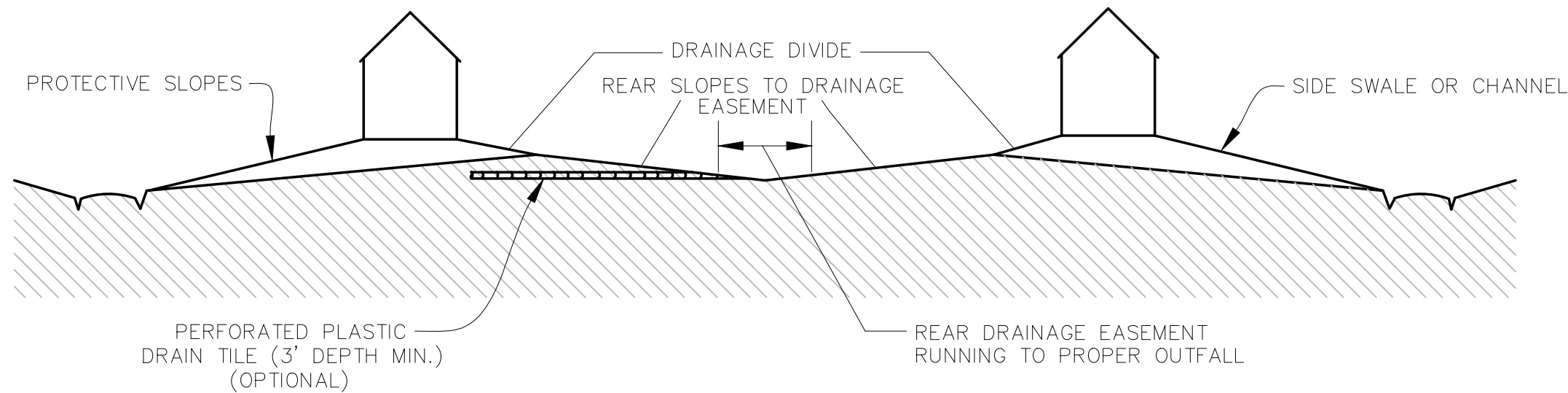
BLOCK AND GRAVEL

CURB INLET PROTECTION



LOT DRAINAGE DETAIL (TYPICAL)

NOT TO SCALE



BACK TO BACK LOT SECTION DETAIL (TYPICAL)

NOT TO SCALE
LOT-DRAIN-DWG 7/2/98

GENERAL NOTES

- WHENEVER PROPRIETARY EQUIPMENT IS SPECIFIED, "OR APPROVED EQUAL" IS IMPLIED. ALL PROPOSALS FOR SUBSTITUTION SHALL BE SUBMITTED TO THE CITY IN WRITING FOR THEIR APPROVAL.
- PRIOR WRITTEN APPROVAL OF ENGINEER'S OFFICE FOR USE OF CAST IN PLACE OR MASONRY STRUCTURES.



REVISED: 06/26/2003

			PROJECT NAME	PROJECT SHEET NUMBER
REVISED: 06/26/2003				of
CITY OF LAFAYETTE				
(800) 382-5544	HOLEY MOLEY	20 NORTH SIXTH STREET LAFAYETTE, INDIANA 47901	DATE MAY 2005	
(765) 807-1050	CITY ENGINEER		SHEET 11 OF 12	
(765) 807-1800	WATER POLLUTION CONTROL-SEWERS			
(765) 807-1700	WATER WORKS			
(765) 807-1600	FIRE DEPT.			
(765) 807-1210	POLICE DEPT.			
		STORM SEWER STRUCTURES, DRAINAGE AND EROSION CONTROL TYPICAL DETAILS AND NOTES		

CONSTRUCTION SEQUENCE FOR BUILDING SITE EROSION CONTROL PRACTICE

STEP 1. EVALUATE THE SITE
BEFORE CONSTRUCTION, EVALUATE THE ENTIRE SITE, MARKING FOR PROTECTION ANY IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, UNIQUE AREAS TO BE PRESERVED, ON-SITE SEPTIC SYSTEM ABSORPTION FIELDS, AND VEGETATION SUITABLE FOR FILTER STRIPS, ESPECIALLY IN PERIMETER AREAS.

IDENTIFY VEGETATION TO BE SAVED
*SELECT AND IDENTIFY THE TREES, SHRUBS, AND OTHER VEGETATION THAT YOU WANT TO SAVE (SEE VEGETATIVE FILTER STRIPS UNDER STEP 2 BELOW).

PROTECT TREES AND SENSITIVE AREAS
*TO PREVENT ROOT DAMAGE, DO NOT GRADE, BURN, PLACE SOIL PILES, OR PARK VEHICLES NEAR TREES OR IN AREAS MARKED FOR PRESERVATION. *PLACE PLASTIC MESH OR SNOW FENCE BARRIERS AROUND THE TREES'DRIP LINE TO PROTECT THE AREA BELOW THEIR BRANCHES. * PLACE A PHYSICAL BARRIER, SUCH AS PLASTIC FENCING, AROUND THE AREA DESIGNATED FOR A SEPTIC SYSTEM ABSORPTION FIELD (IF APPLICABLE).

STEP 2. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS

IDENTIFY THE AREAS WHERE SEDIMENT-LADEN RUNOFF COULD LEAVE THE CONSTRUCTION SITE, AND INSTALL PERIMETER CONTROLS TO MINIMIZE THE POTENTIAL FOR OFF-SITE SEDIMENTATION. IT'S IMPORTANT THAT PERIMETER CONTROLS ARE IN PLACE BEFORE ANY OTHER EARTH-MOVING ACTIVITIES BEGIN.

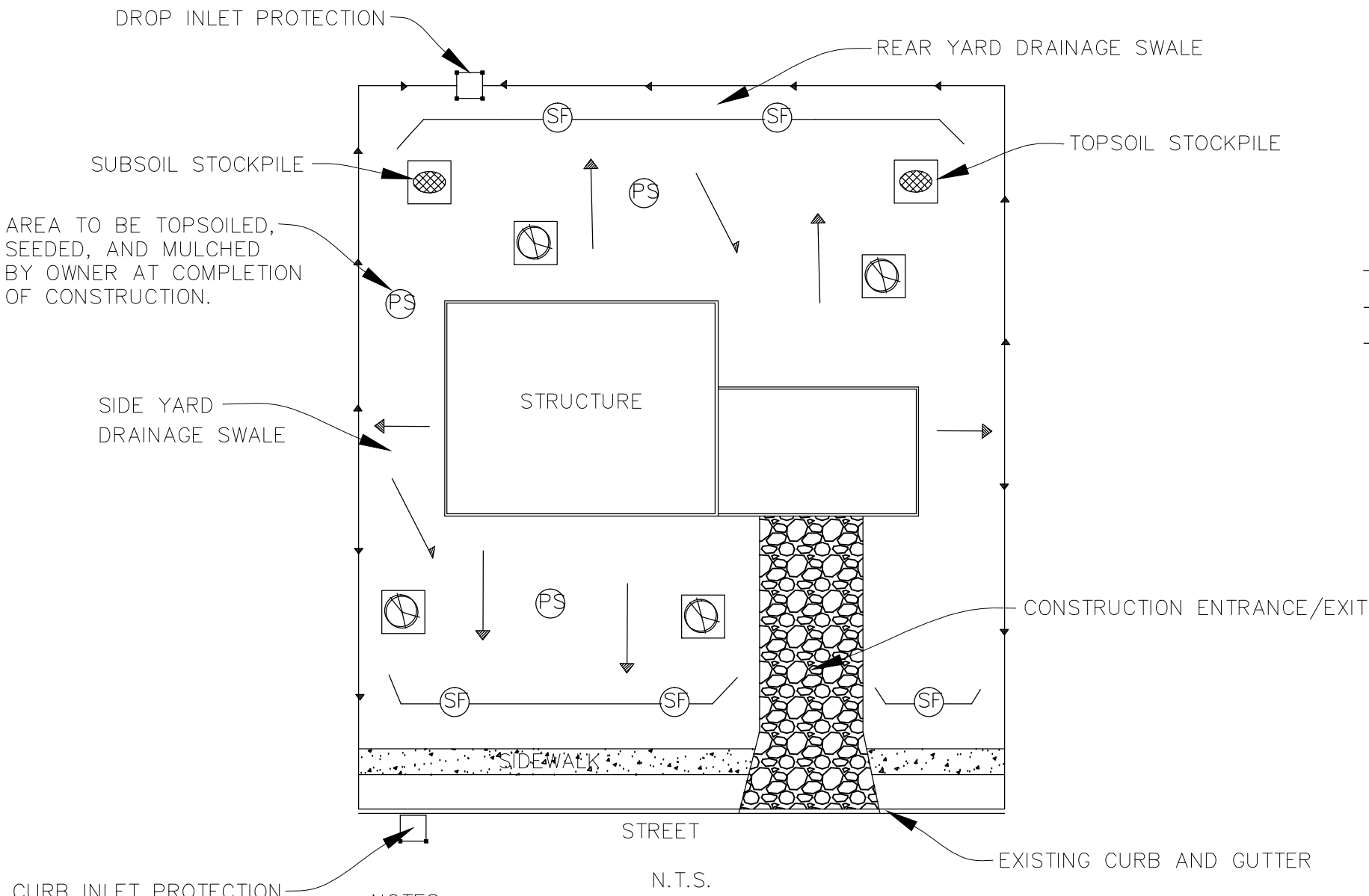
PROTECT DOWN-SLOPE AREAS WITH VEGETATIVE FILTER STRIPS
* ON SLOPES OF LESS THAN 6 PERCENT, PRESERVE A 20 TO 30 FOOT WIDE VEGETATIVE BUFFER STRIP AROUND THE PERIMETER OF THE PROPERTY AND USE IT AS A FILTER STRIP FOR TRAPPING SEDIMENT. *DO NOT MOW FILTER STRIP VEGETATION SHORTER THAN 4 INCHES

WITH SILT FENCE
* USE SILT FENCING ALONG THE PERIMETER OF THE LOT'S DOWN SLOPE SIDE(S) TO TRAP SEDIMENT (SEE SILT FENCE DETAIL)

INSTALL GRAVEL DRIVE
*RESTRICT ALL LOT ACCESS TO THIS DRIVE TO PREVENT VEHICLES FROM TRACKING MUD ONTO ROADWAYS (SEE CONSTRUCTION ENTRANCE DETAIL)

PROTECT STORM SEWER INLETS
*PROTECT NEARBY STORM SEWER CURB INLETS WITH STONE-FILLED OR GRAVEL- FILLED GEOTEXTILE BAGS (SEE CURB INLET PROTECTION DETAIL) OR EQUIVALENT MEASURES BEFORE DISTURBING SOIL.

* PROTECT ON-SITE STORM SEWER DROP INLETS WITH SILT FENCE MATERIAL (SEE CURB INLET PROTECTION DETAIL), STRAW BALES, OR EQUIVALENT MEASURES BEFORE DISTURBING SOIL.



NOTES:

1. EROSION/SEDIMENT CONTROL MEASURES MUST BE FUNCTIONAL AND BE MAINTAINED THROUGHOUT CONSTRUCTION.
2. MAINTAIN POSITIVE DRAINAGE AWAY FROM THE STRUCTURE(S).

SAMPLE EROSION/SEDIMENT CONTROL PRACTICE PLAN
TYPICAL STRUCTURE UNDER CONSTRUCTION

STEP 3. PREPARE THE SITE FOR CONSTRUCTION

PREPARE THE SITE FOR CONSTRUCTION AND FOR INSTALLATION OF UTILITIES. MAKE SURE ALL CONTRACTORS (ESPECIALLY THE EXCAVATING CONTRACTOR) ARE AWARE OF AREAS TO BE PROTECTED.

SALVAGE AND STOCKPILE TOPSOIL/SUBSOIL

* REMOVE TOPSOIL (TYPICALLY THE UPPER 4 TO 6 INCHES OF SOIL MATERIAL) AND STOCKPILE.

* REMOVE SUBSOIL AND STOCKPILE SEPARATELY FROM THE TOPSOIL.

* LOCATE THE STOCKPILES AWAY FROM ANY DOWN SLOPE STREET, DRIVEWAY, STREAM, LAKE, WETLAND, DITCH, OR DRAINAGEWAY.

*IMMEDIATELY AFTER STOCKPILING, TEMPORARY-SEED THE STOCKPILES WITH ANNUAL RYE OR WINTER WHEAT AND /OR PLACE SEDIMENT BARRIERS AROUND THE PERIMETER OF THE PILES.

STEP 4. BUILD THE STRUCTURE(S) AND INSTALL THE UTILITIES

CONSTRUCT THE STRUCTURE AND INSTALL THE UTILITIES; ALSO INSTALL THE SEWAGE DISPOSAL SYSTEM AND DRILL THE WATER WELL (IF APPLICABLE); THEN CONSIDER THE FOLLOWING:

INSTALL DOWN SPOUT EXTENDERS

*ALTHOUGH NOT REQUIRED, DOWN SPOUT EXTENDERS ARE HIGHLY RECOMMENDED AS A MEANS OF PREVENTING LOT EROSION FROM ROOF RUNOFF.

*ADD THE EXTENDERS AS SOON AS THE GUTTERS AND DOWN SPOUTS ARE INSTALLED (SEE TEMPORARY DOWN SPOUT EXTENDERS DETAIL)

*BE SURE THE EXTENDERS HAVE A STABLE OUTLET SUCH AS THE STREET, SIDEWALK, OR A WELL VEGETATED AREA.

STEP 5. MAINTAIN THE CONTROL PRACTICES
MAINTAIN ALL EROSION AND SEDIMENT CONTROL PRACTICES UNTIL CONSTRUCTION IS COMPLETED AND THE LOT IS STABILIZED.

* INSPECT THE CONTROL PRACTICES A MINIMUM OF TWICE A WEEK AND AFTER EACH STORM EVENT, MAKING ANY NEEDED REPAIRS IMMEDIATELY.

* TOWARD THE END OF EACH WORKDAY, SWEEP OR SCRAPE UP ANY SOIL TRACKED ONTO ROADWAYS. DO NOT FLUSH AREAS WITH WATER.

* BY THE END OF THE NEXT WORKDAY AFTER A STORM EVENT, CLEAN UP ANY SOIL WASHED OFF-SITE.

STEP 6. REVEGETATE THE BUILDING SITE
IMMEDIATELY AFTER ALL OUTSIDE CONSTRUCTION ACTIVITIES ARE COMPLETED, STABILIZE THE LOT WITH SOD, SEED, AND/OR MULCH.

REDISTRIBUTE THE STOCKPILED SUBSOIL AND TOPSOIL

* SPREAD THE STOCKPILED SUBSOIL TO ROUGH GRADE.

* SPREAD THE STOCKPILED TOPSOIL TO A DEPTH OF 4 TO 6 INCHES OVER ROUGH-GRADED AREAS.

* FERTILIZE AND LIME ACCORDING TO SOIL TEST RESULTS OR RECOMMENDATIONS OF A SEED SUPPLIER OR A PROFESSIONAL LANDSCAPING CONTRACTOR.

SEED OR SOD BARE AREAS

* CONTRACT LOCAL SEED SUPPLIERS OR PROFESSIONAL LANDSCAPING CONTRACTORS FOR RECOMMENDED SEEDING MIXTURES AND RATES.

* FOLLOW RECOMMENDATIONS OF A PROFESSIONAL LANDSCAPING CONTRACTOR FOR INSTALLATION OF SOD.

* WATER NEWLY SEEDED/SODDED AREAS EVERY DAY OR TWO TO KEEP THE SOIL MOIST. LESS WATERING IS NEEDED ONCE GRASS IS 2 INCHES TALL.

MULCH NEWLY SEEDED AREAS

* SPREAD STRAW MULCH ON NEWLY SEEDED AREAS, USING 1 1/2 TO 2 BALES OF STRAW PER 1,000 SQUARE FEET.

* ON FLAT OR GENTLY SLOPING LAND, ANCHOR THE MULCH BY CRIMPING IT 2 TO 4 INCHES INTO THE SOIL. ON STEEP SLOPES, ANCHOR THE MULCH WITH NETTING OR TACKIFIERS. AN ALTERNATIVE TO ANCHORED MULCH WOULD BE THE USE OF EROSION CONTROL BLANKETS.

STEP 7. REMOVE REMAINING TEMPORARY CONTROL MEASURES

ONCE THE SOD AND/OR VEGETATION IS WELL ESTABLISHED, REMOVE ANY REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES, SUCH AS:

* DOWN SPOUTS EXTENDERS (OR SHORTEN TO OUTLET ONTO THE VEGETATED AREAS, ALLOWING FOR MAXIMUM INFILTRATION.

* STORM SEWER INLET PROTECTION MEASURES.

EROSION CONTROL PLAN LEGEND

PROPERTY LINE/DRAINAGE SWALE
FINISHED DRAINAGE
EXISTING DRAINAGE

TREE PRESERVATION

GRAVEL ENTRANCE/EXIT PAD

SOIL SALVAGE AND UTILIZATION

SILT FENCE

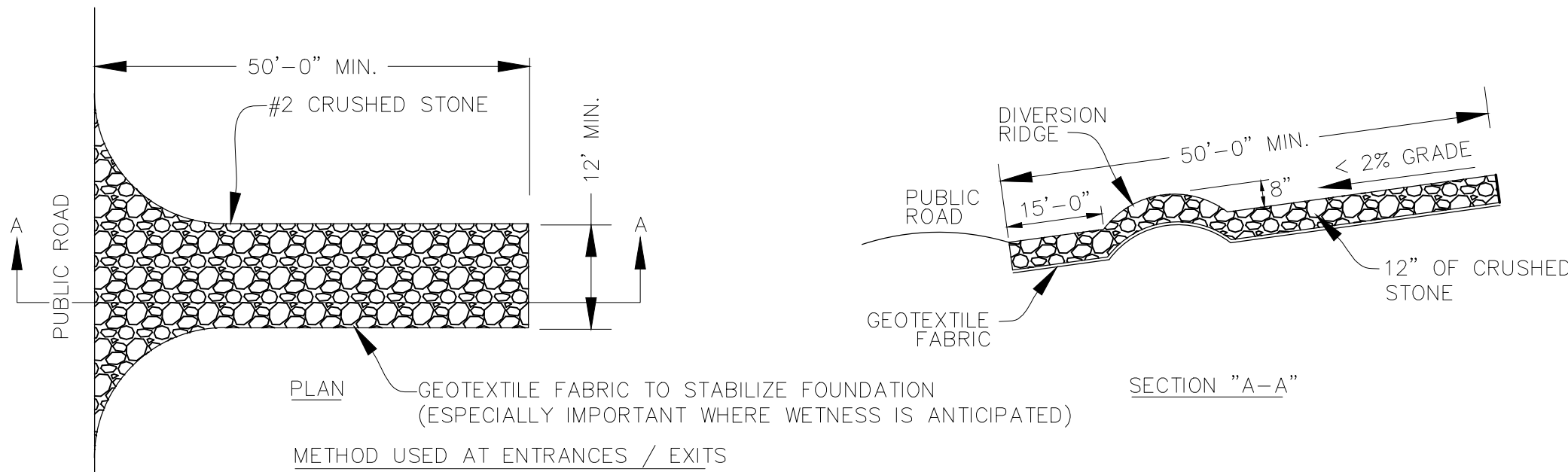
PERMANENT SEEDING

CURB INLET PROTECTION

DROP INLET PROTECTION

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL INSTALL ALL REQUIRED SILT FENCES, SILT TRAPS, TREE PROTECTION AND INLET PROTECTION FOR EXISTING INLETS PRIOR TO THE START OF ANY EARTH MOVING OR STRIPPING.
2. CONTRACTOR SHALL INSTALL A GRAVEL CONSTRUCTION ENTRANCE OR SOME OTHER DEVICE PRIOR TO THE START OF EARTHWORK AS NECESSARY TO PREVENT SOIL FROM BEING TRACKED OR WASHED INTO EXISTING ROADWAYS.
3. LAND ALTERATIONS WHICH STRIP THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED. AS GRADING IS DONE, INSTALL SILT TRAPS, SILT FENCES, SLOPE DRAINS, TEMPORARY DIVERSIONS AND OTHER RUNOFF CONTROL MEASURES AT APPROPRIATE LOCATIONS TO KEEP SEDIMENT CONTAINED ON SITE.
4. ALL DISTURBED AREAS SHALL BE SEEDED AND STRAW MULCHED AS SHOWN ON THE PLANS IMMEDIATELY AFTER COMPLETION OF GROUND DISTURBING ACTIVITY, FOR EACH PHASE AS THE DIFFERENT PHASES OF THE SITE ARE CONSTRUCTED.
5. PERMANENT AND FINAL VEGETATION OR STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS SOON AS PRACTICAL.
6. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM DEPENDING UPON THE WEATHER. IF CONSTRUCTION ACTIVITY IS TO CEASE FOR MORE THAN TWO WEEKS, THE DISTURBED AREAS SHALL BE TEMPORARILY SEEDED.
7. ALL STORM SEWER INLET PROTECTION DEVICES SHALL BE PUT IN PLACE AT THE TIME EACH INLET IS CONSTRUCTED.
8. CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES AND DEVICES DURING CONSTRUCTION AND UNTIL SILTATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR.
9. ONCE ON-SITE EROSION AND SILTATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY EROSION CONTROL DEVICES.
10. THESE GENERAL PROCEDURES MAY NOT COVER ALL SITUATIONS. REFER TO EROSION CONTROL PLANS FOR SPECIFIC NOTES AND ADDITIONAL DETAILS.
11. EROSION CONTROL SHALL COMPLY WITH INDIANA 327 IAC AND RULE #5, AND INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS.
12. THE CITY ENGINEER HAS THE AUTHORITY TO REQUEST ADDITIONAL EROSION CONTROL MEASURES OR AMEND EROSION CONTROL PLANS SUBJECT TO ACTUAL SITE CONDITIONS.
13. THE CONTRACTOR MAY SUBSTITUTE DIFFERENT EROSION CONTROL DEVICES FOR THOSE SHOWN ON THE DRAWINGS SO LONG AS THE SUBSTITUTED DEVICES PERFORMS AS REQUIRED BY INDIANA 327 IAC AND "RULE 5".
14. THE CONTRACTOR IS TO INSTALL, MONITOR AND MAINTAIN ALL REQUIRED EROSION CONTROL DEVICES IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE "INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS" LATEST EDITION, WHICH IS HEREBY INCORPORATED INTO THESE STANDARDS BY REFERENCE AND MADE A PART THEREOF.
- 15.

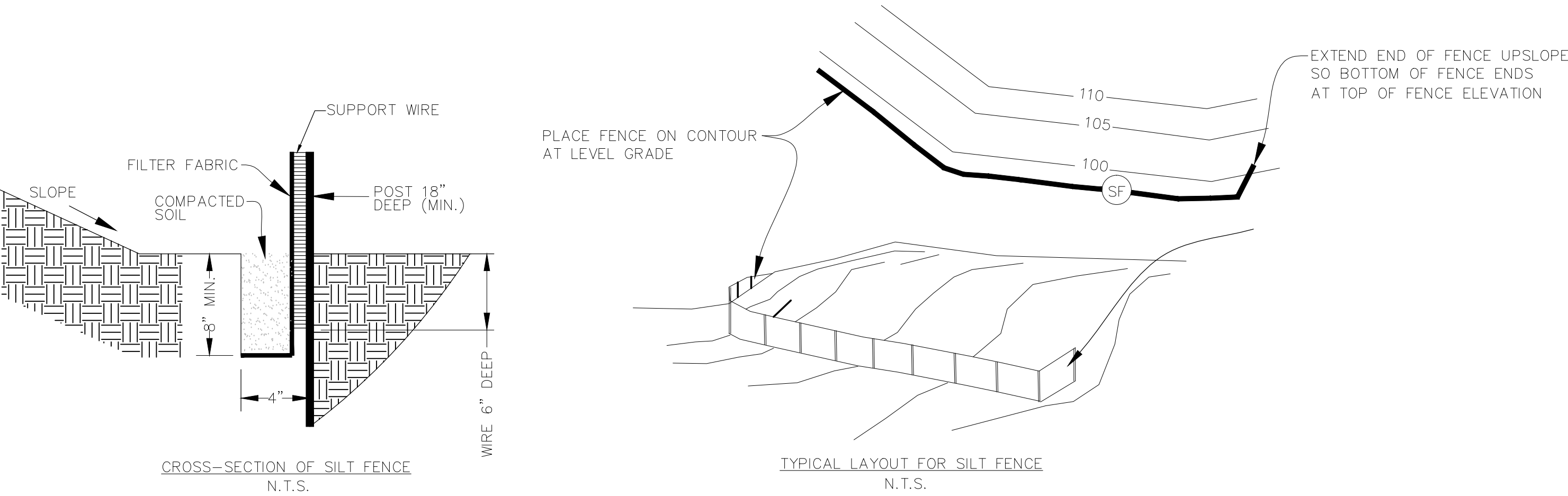


CONSTRUCTION GRAVEL ENTRANCE

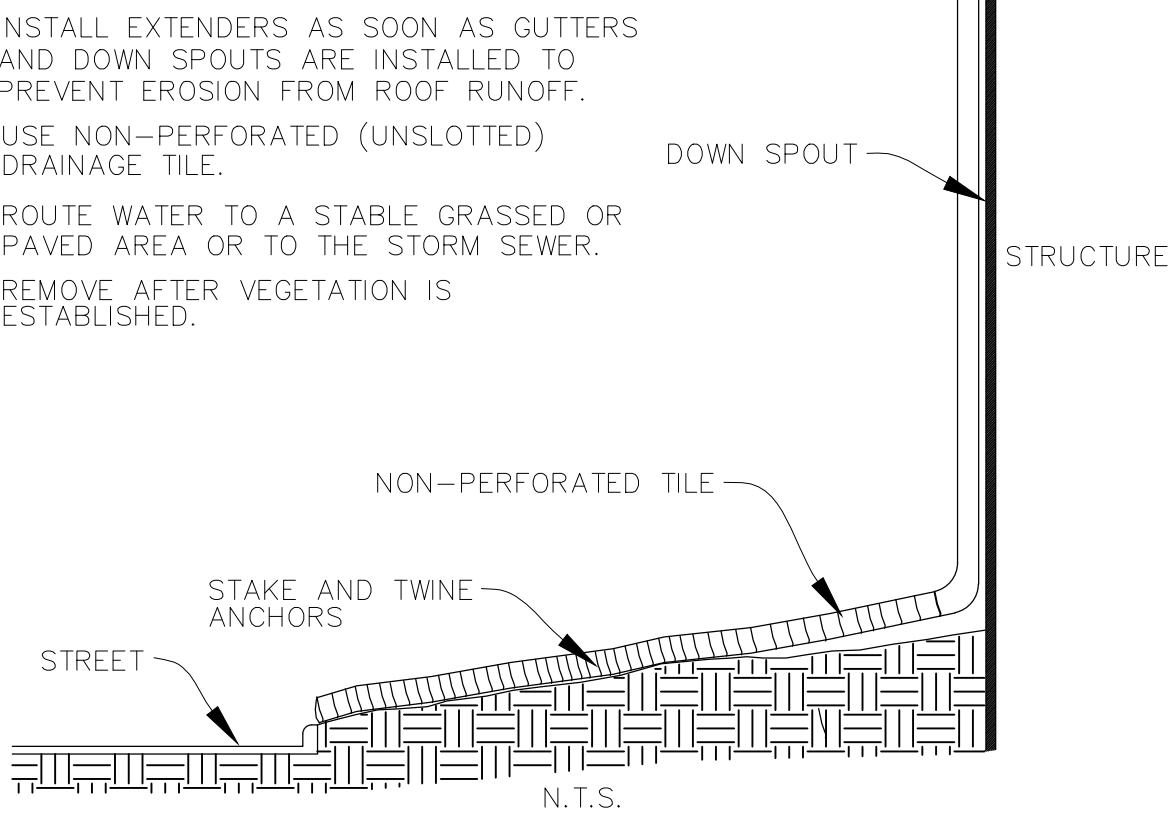


REVISED 09/01/2013

CITY OF LAFAYETTE			
(800) 382-5544	HOLEY MOLEY	20 NORTH SIXTH STREET LAFAYETTE, INDIANA 47901	DATE MAY 2005
(765) 807-1050	CITY ENGINEER		SHEET 12
(765) 807-1800	WATER POLLUTION CONTROL-SEWERS	EROSION CONTROL TYPICAL DETAILS AND NOTES	OF
(765) 807-1700	WATER WORKS		12
(765) 807-1600	FIRE DEPT.		
(765) 807-1210	POLICE DEPT.		



SILT FENCE



TEMPORARY
DOWN SPOUT EXTENDERS