

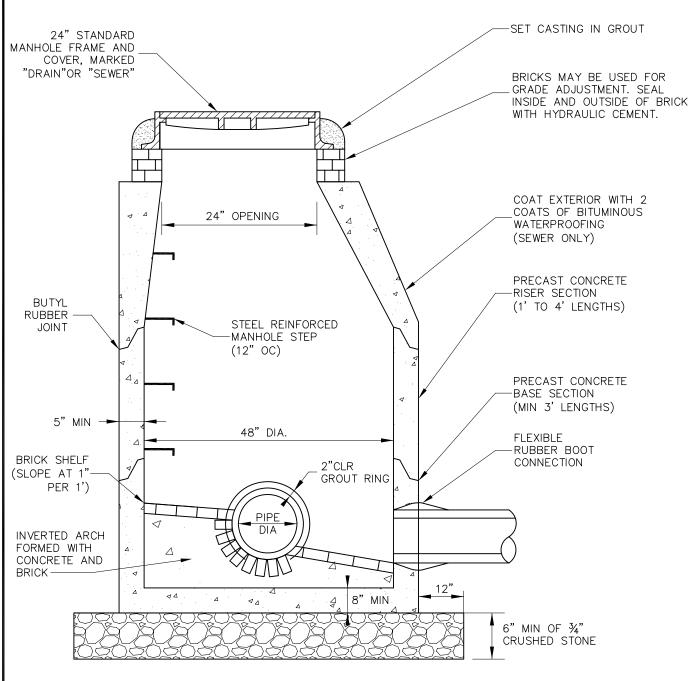
DEPARTMENT OF PUBLIC WORKS

TOWN OF ARLINGTON 51 Grove Street Arlington, Massachusetts 02476

Telephone (781) 316-3320 Fax (781) 316-3281

Standard Construction Details

DETAIL #	DESCRIPTION
C-01	Drain/Sewer Manhole
C-02	Payment Lines for Rock Excavation in Trenches
C-03	ADA Ramp A
C-04	ADA Ramp B
C-05	ADA Ramp C
C-06	Driveway Apron (with Grass Strip)
C-07	Driveway Apron (with Sidewalk)
C-08	Utility Pipe Trench
C-09	Temporary Water Main Protection Detail
C-10	Typical Sidewalk Section
C-11	Hydrant Assembly Detail
C-12	Water Service Connection
C-13	Vertical Granite Curb Setting
C-14	Temporary Pedestrian Ramp Detail
C-15	Concrete Sidewalk Joints
C-16	Sewer Building Connection
C-17	Sewer Building Connection (with Chimney)
C-18	Roadway Underdrain
C-19	Flared End Section
C-20	Drainage Catch Basin
C-21	Sewer Drop Manhole
C-22	Sump Pump Recharge/Infiltration System
C-23	Oil and Gas Separator



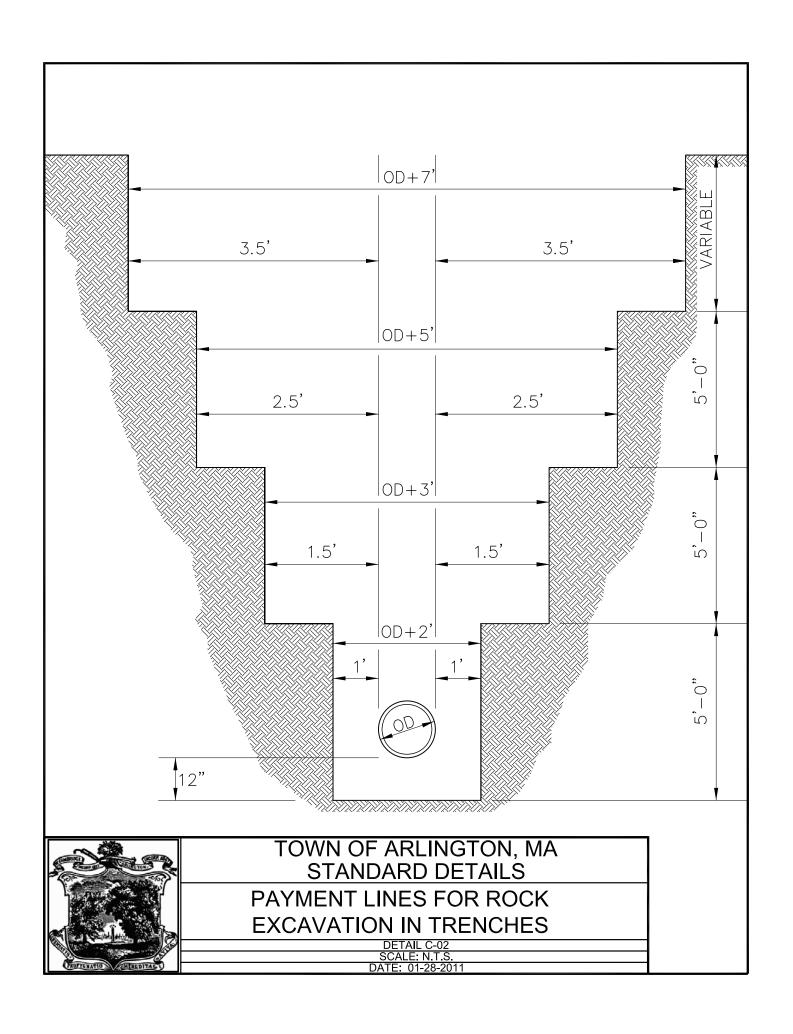
- 1. MANHOLE SECTIONS AND STEEL REINFORCEMENT SHALL CONFORM TO ASTM C478 AND BE SUITABLE FOR HS-20 LOADING.
- 2. REINFORCING STEEL SHALL BE MIN. 0.12 SQ. IN. STEEL PER VERTICAL FOOT, PLACED ACCORDING TO AASHTO DESIGNATION M199.

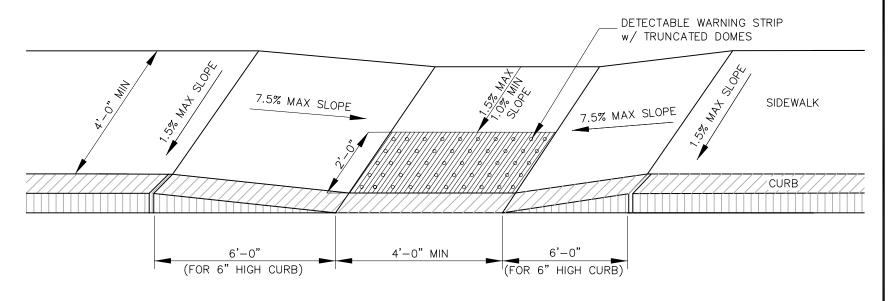


TOWN OF ARLINGTON, MA STANDARD DETAILS

DRAIN/SEWER MANHOLE

DETAIL C-01 SCALE: N.T.S. DATE: 01-28-2011





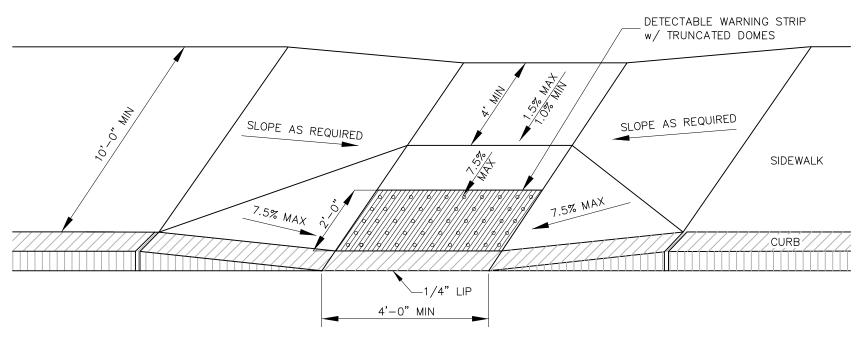
- 1. RAMP AND ADJACENT PAVEMENT SHALL BE GRADED TO PREVENT PONDING.
- 2. THE MAXIMUM CROSS SLOPES SHALL BE 1.5% AND THE MINUMUM SHALL BE 1.0%
- 3. THE MAXIMUM CURB RAMP SLOPE SHALL BE 7.5%
- 4. RAMP MUST MEET STANDARDS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD AT TIME OF CONSTRUCTION.
- 5. RAMP MUST BE REVIEWED BY TOWN OF ARLINGTON ENGINEERING DEPARTMENT PRIOR TO CONCRETE POUR.



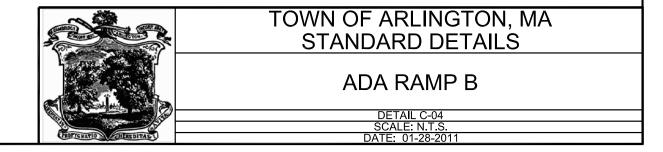
TOWN OF ARLINGTON, MA STANDARD DETAILS

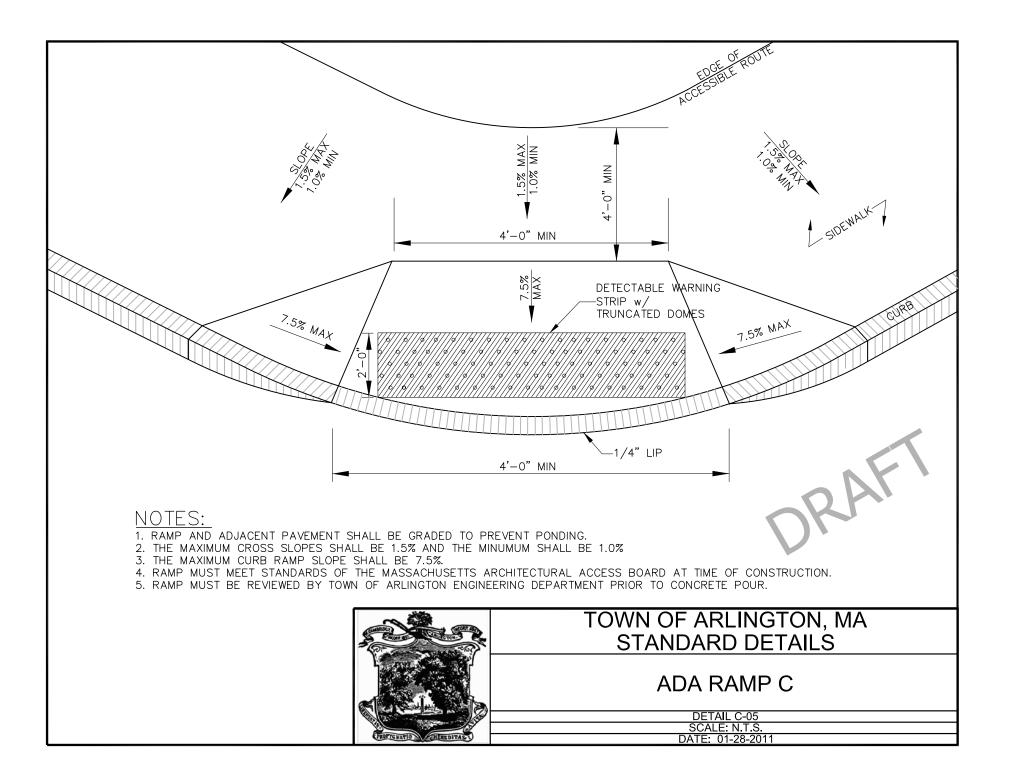
ADA RAMP A

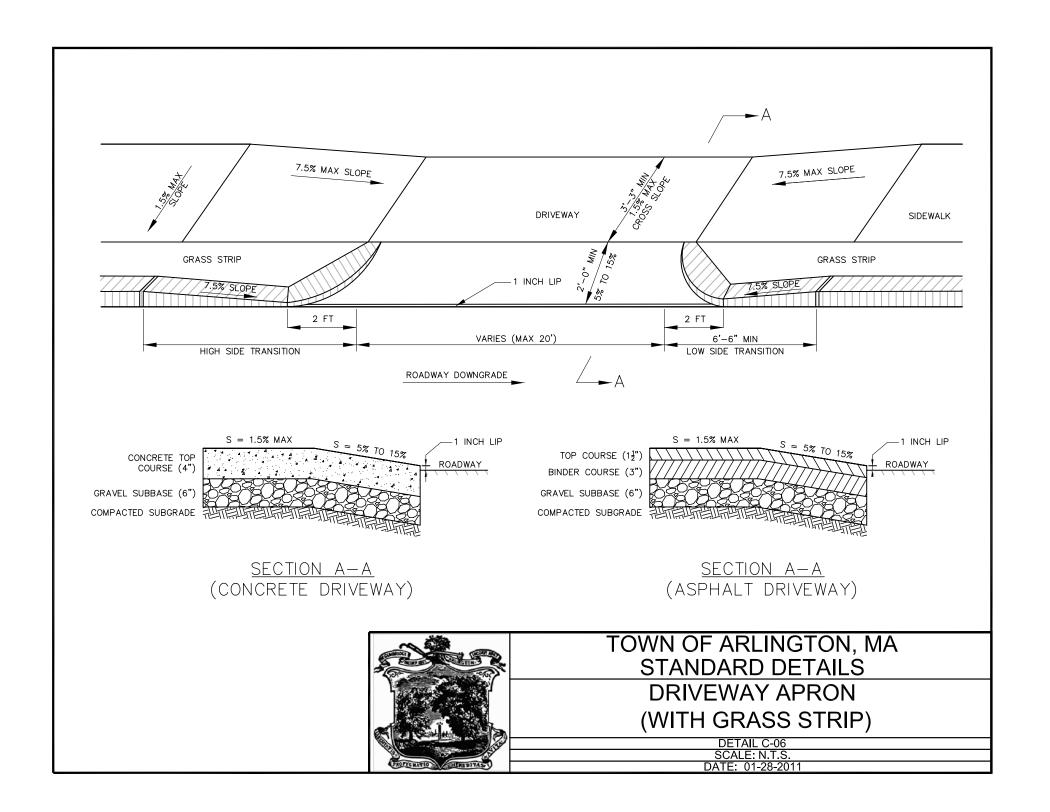
DETAIL C-03	
SCALE: N.T.S.	
DATE: 01-28-2011	

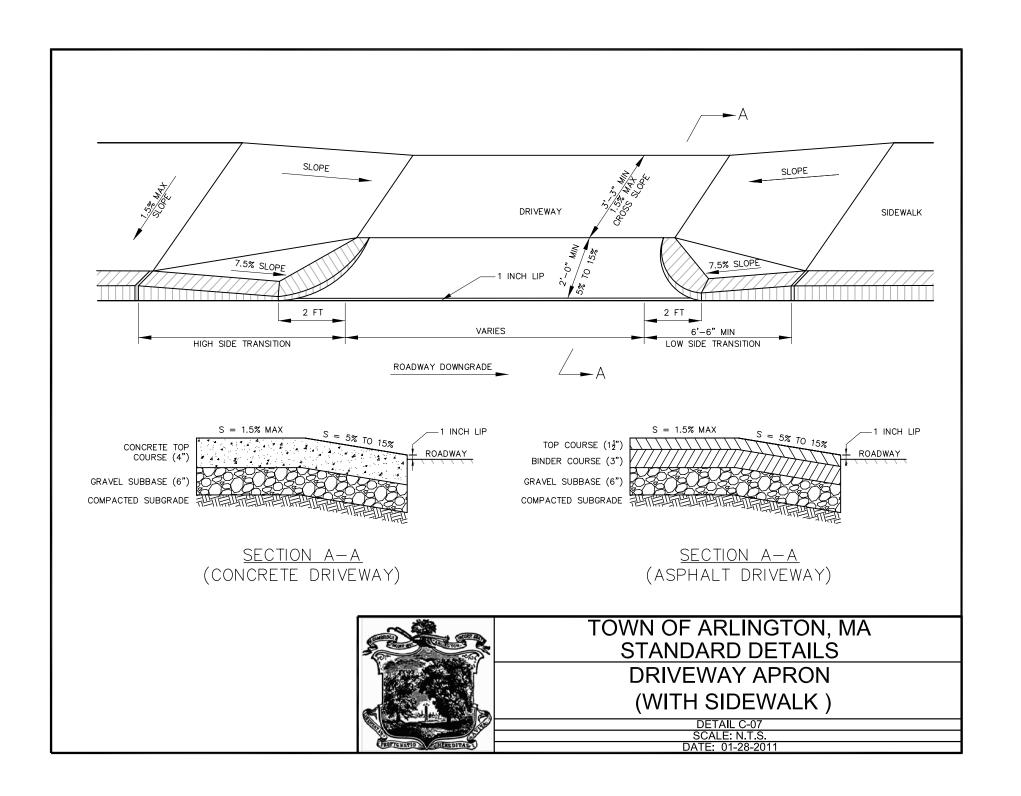


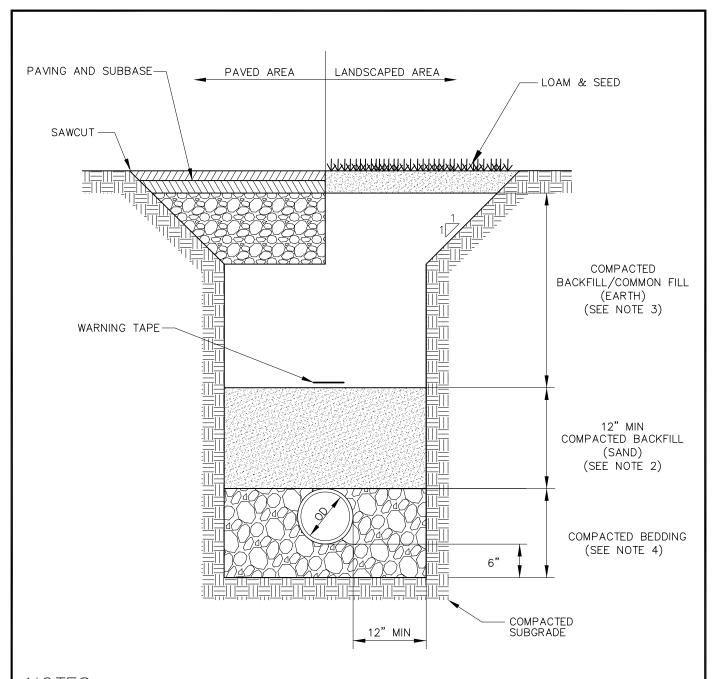
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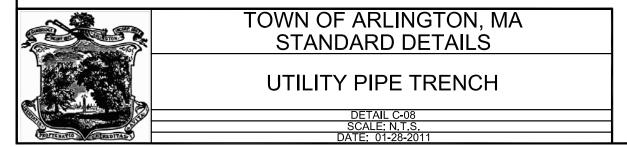


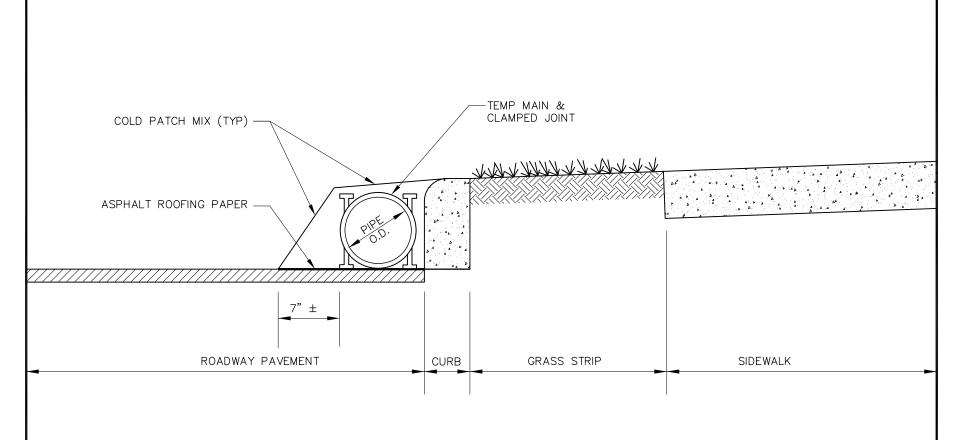




- 1. COMPACT BACKFILL IN 12" LIFTS
- 2. BACKFILL MATERIAL FOR THIS ZONE SHALL CONTAIN STONES NO LARGER THAN 3 INCHES IN DIAMETER.
- 3. BACKFILL MATERIAL FOR THIS ZONE SHALL CONTAIN STONES NO LARGER THAN 6 INCHES IN DIAMETER.
 4. PIPE BEDDING FOR WATER SERVICE SHALL BE SAND.
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 PIPE BEDDING FOR SEWER AND STORM DRAIN LINES SHALL BE 3/4" MAX DIA. CRUSHED STONE.





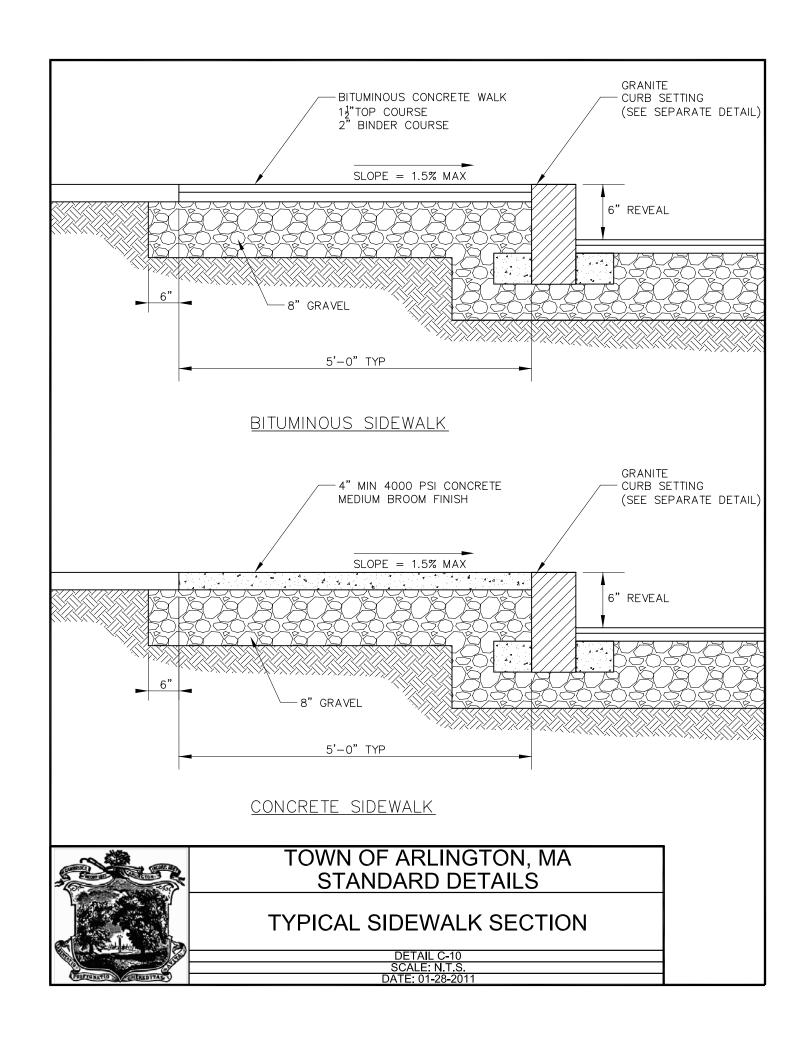
1. INSTALL COLD PATCH MIX AS INDICATED AT EACH CLAMPED JOINT.

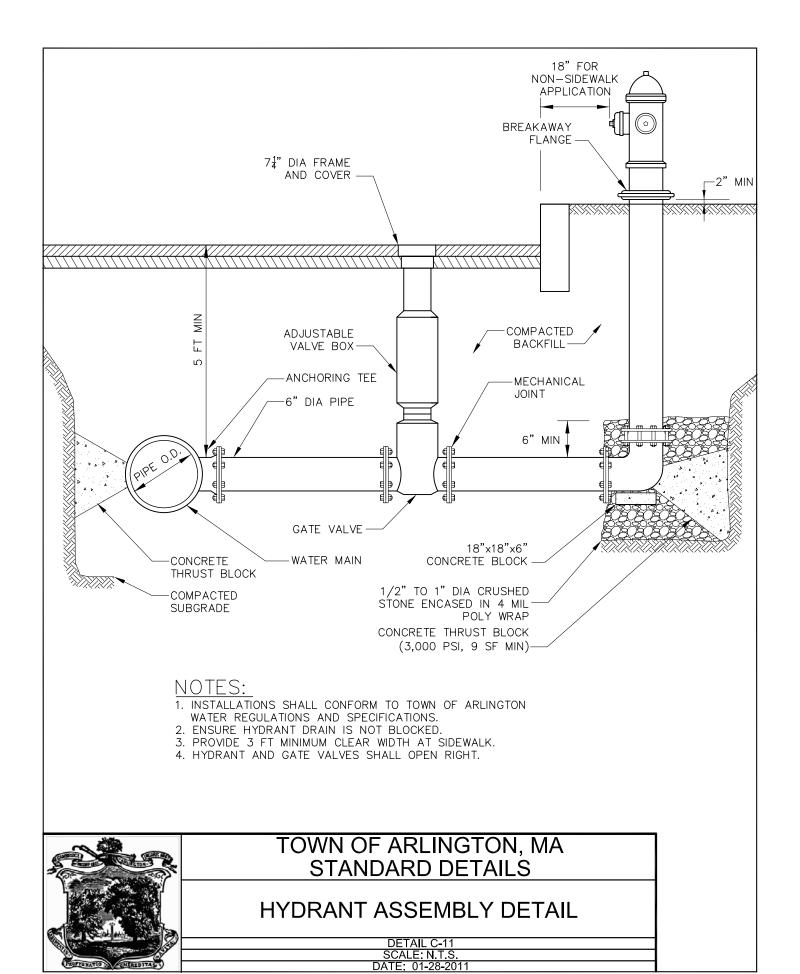


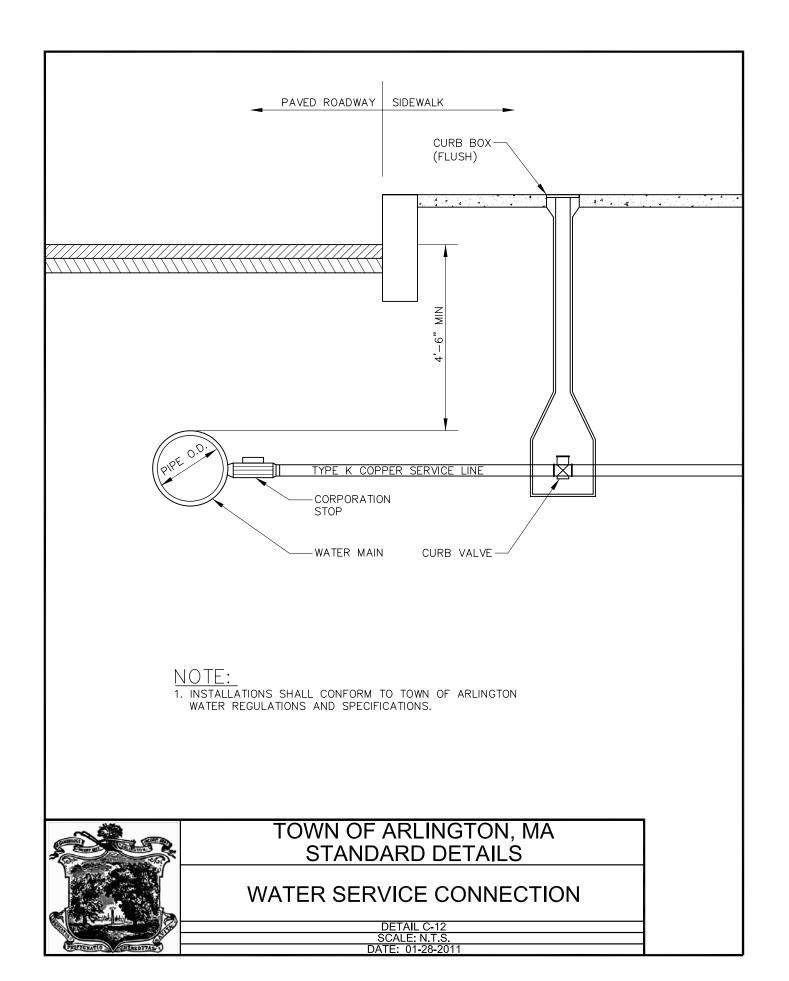
TOWN OF ARLINGTON, MA STANDARD DETAILS

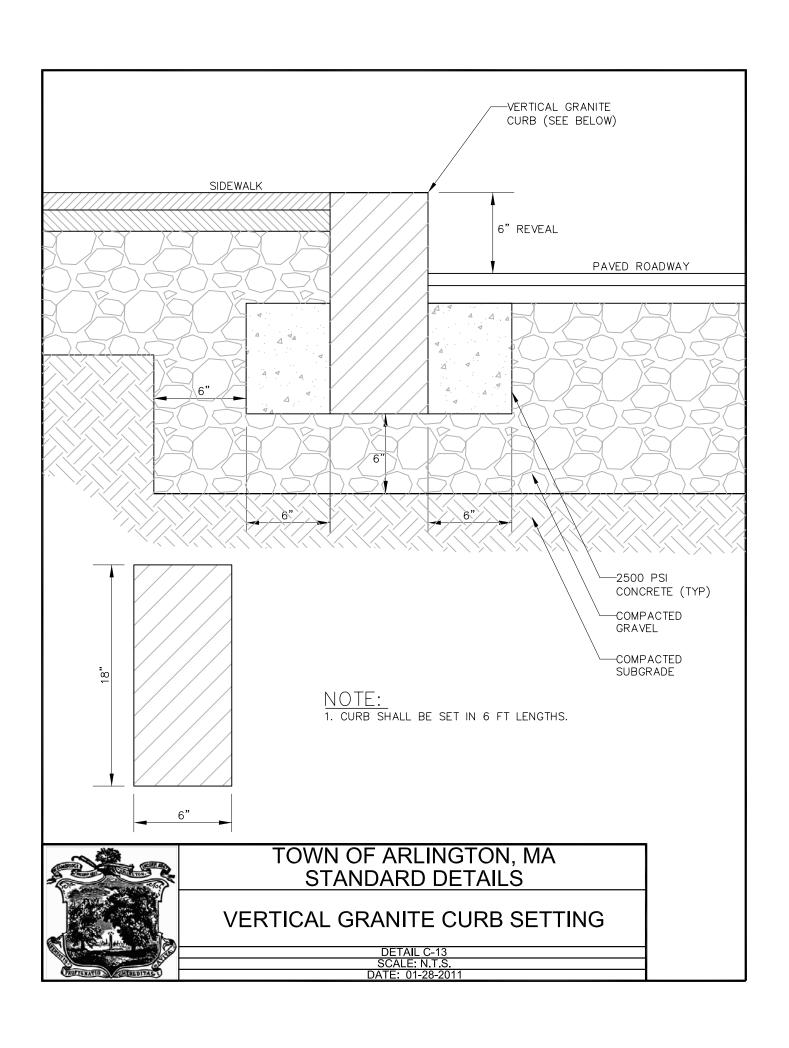
TEMPORARY WATER MAIN PROTECTION DETAIL

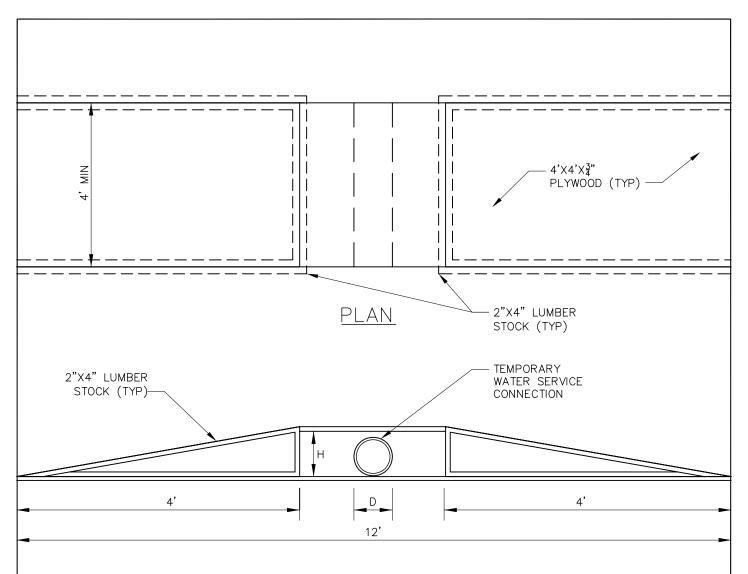
DETAIL C-09 SCALE: N.T.S. DATE: 01-28-2011











PROFILE

NOTES:

- 1. ADDITIONAL RAMPS TO BE INSTALLED AS DIRECTED BY THE
- 2. FLASHING BARRIERS ARE REQUIRED ON STREET SIDE OF ALL RAMPS. ADDITIONAL BARRIERS TO BE SUPPLIED AS REQUIRED BY THE ENGINEER.
- 3. RAMP SECTIONS SHALL BE FASTENED TOGETHER TO PROVIDE

TABLE A:

<u>D</u>	Н
2"	4"

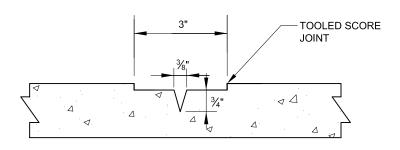
STABILITY.



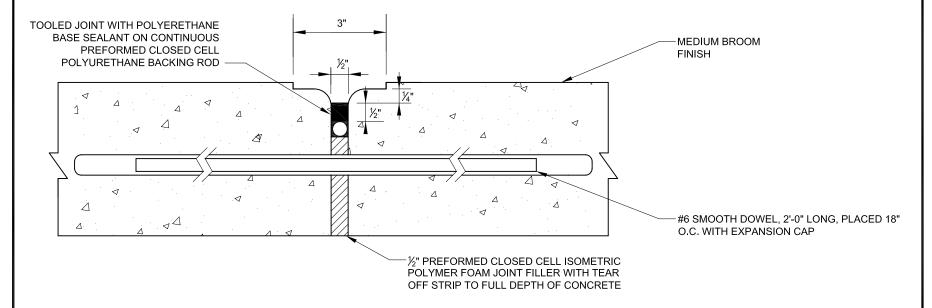
TOWN OF ARLINGTON, MA STANDARD DETAILS

TEMPORARY PEDESTRIAN RAMP DETAIL

DETAIL C-14
SCALE: N.T.S.
DATE: 01-28-2011



CONTROL JOINT



EXPANSION JOINT

NOTE:

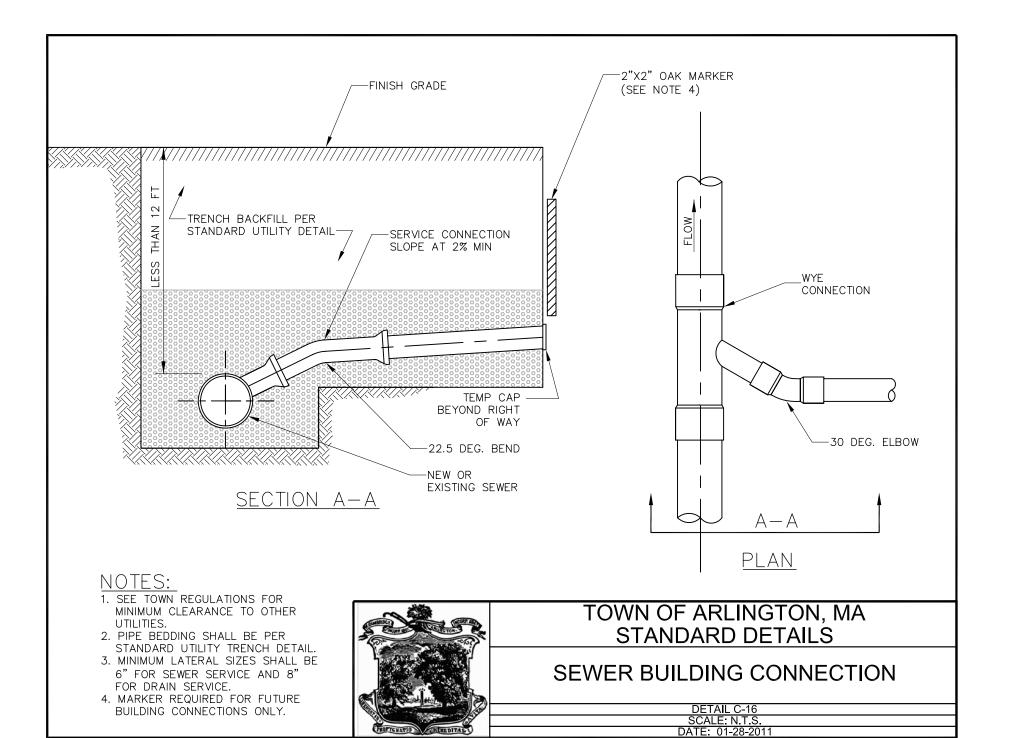
1. EXPANSION JOINTS SHALL BE PLACED 20 FT O.C.

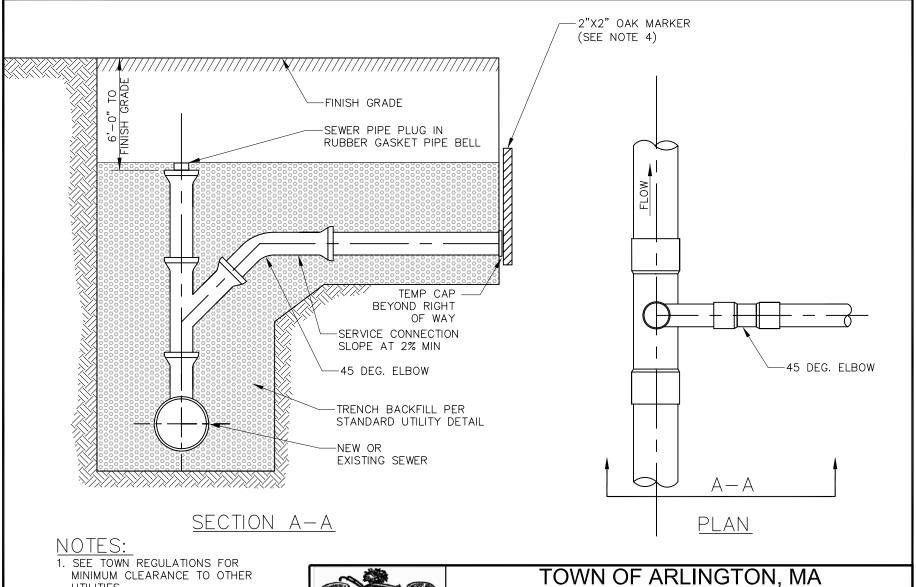


TOWN OF ARLINGTON, MA STANDARD DETAILS

CONCRETE SIDEWALK JOINTS

DETAIL C-15
SCALE: N.T.S.
DATE: 01-28-2011



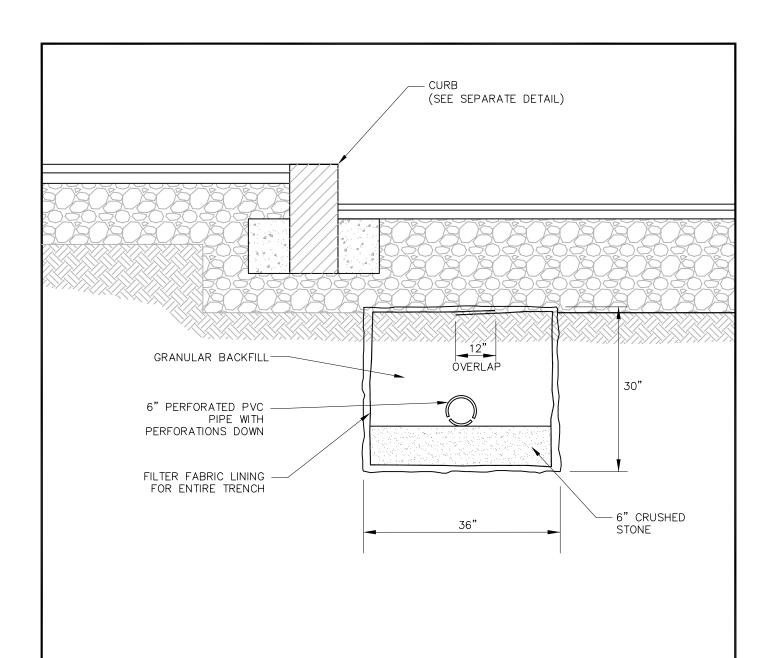


- UTILITIES.
- 2. PIPE BEDDING SHALL BE PER STANDARD UTILITY TRENCH DETAIL.
- 3. MINIMUM LATERAL SIZES SHALL BE 6" FOR SEWER SERVICE AND 8" FOR DRAIN SERVICE.
- 4. MARKER REQUIRED FOR FUTURE BUILDING CONNECTIONS ONLY.



STANDARD DETAILS SEWER BUILDING CONNECTION WITH CHIMNEY (> 12 FT DEEP)

DETAIL C-17 SCALE: N.T.S. DATE: 01-28-2011

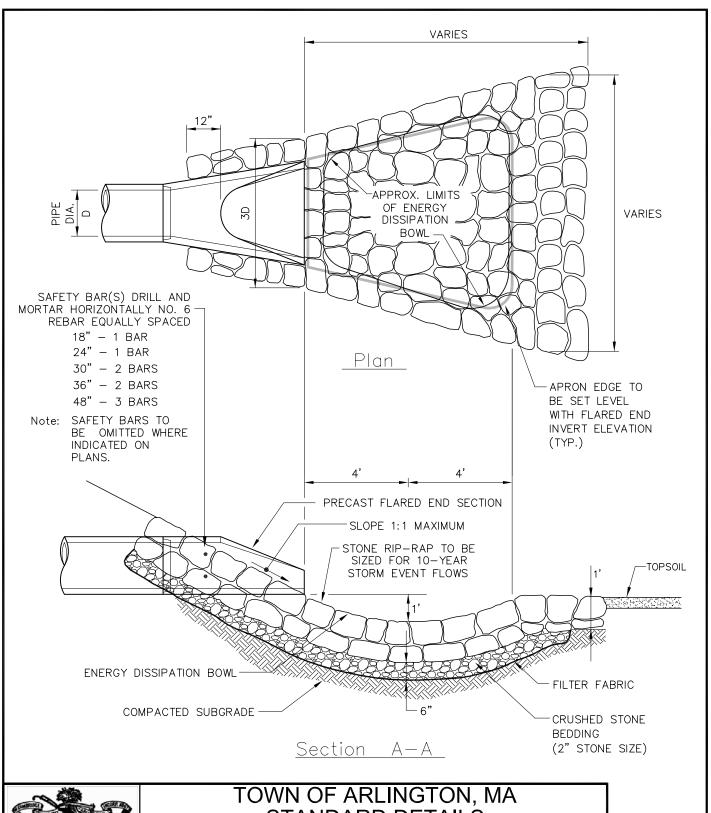




TOWN OF ARLINGTON, MA STANDARD DETAILS

ROADWAY UNDERDRAIN

DETAIL C-18 SCALE: N.T.S. DATE: 01-28-2011

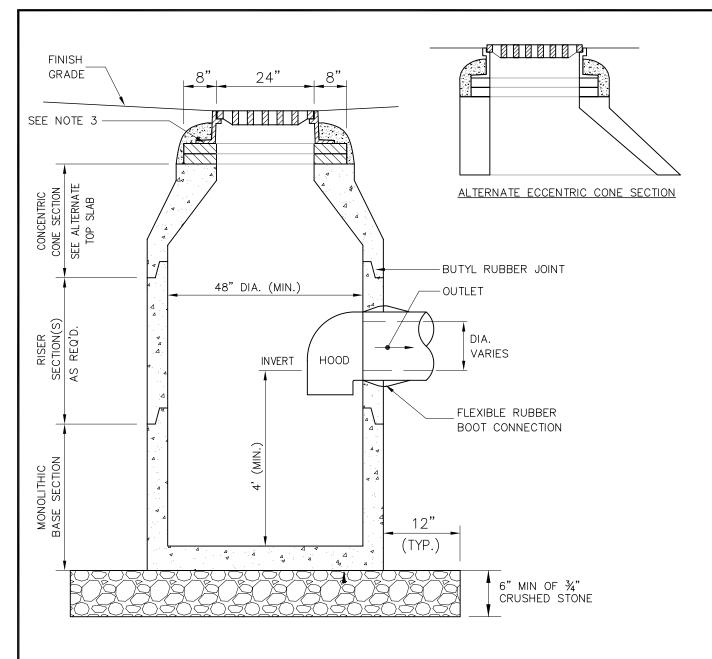




STANDARD DETAILS

TYPICAL FLARED END SECTION

DETAIL C-19 SCALE: N.T.S. DATE: 01-28-2011



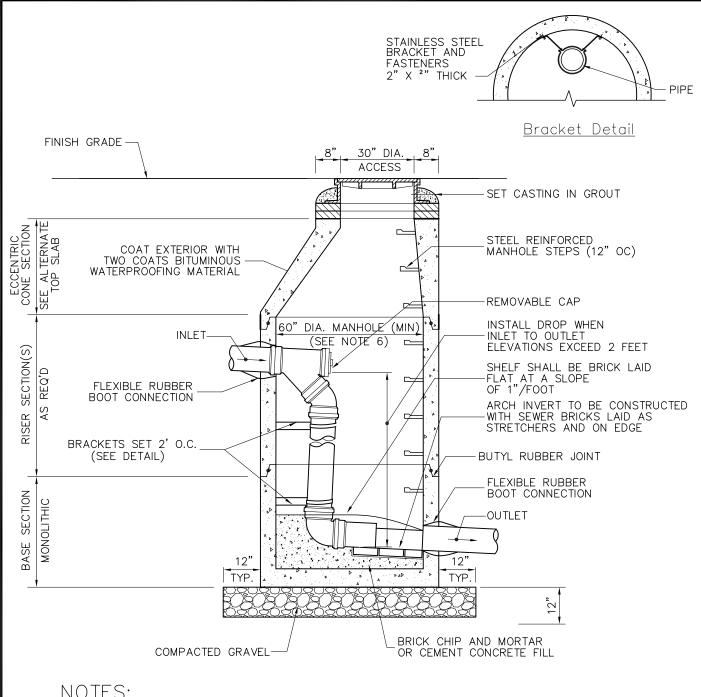
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- REINFORCING STEEL SHALL BE MIN. 0.12 SQ. IN. STEEL PER VERTICAL FOOT, PLACED ACCORDING TO AASHTO DESIGNATION M199.
- 3. CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).



TOWN OF ARLINGTON, MA STANDARD DETAILS

DRAINAGE CATCH BASIN

DETAIL C-20 SCALE: N.T.S. DATE: 01-28-2011



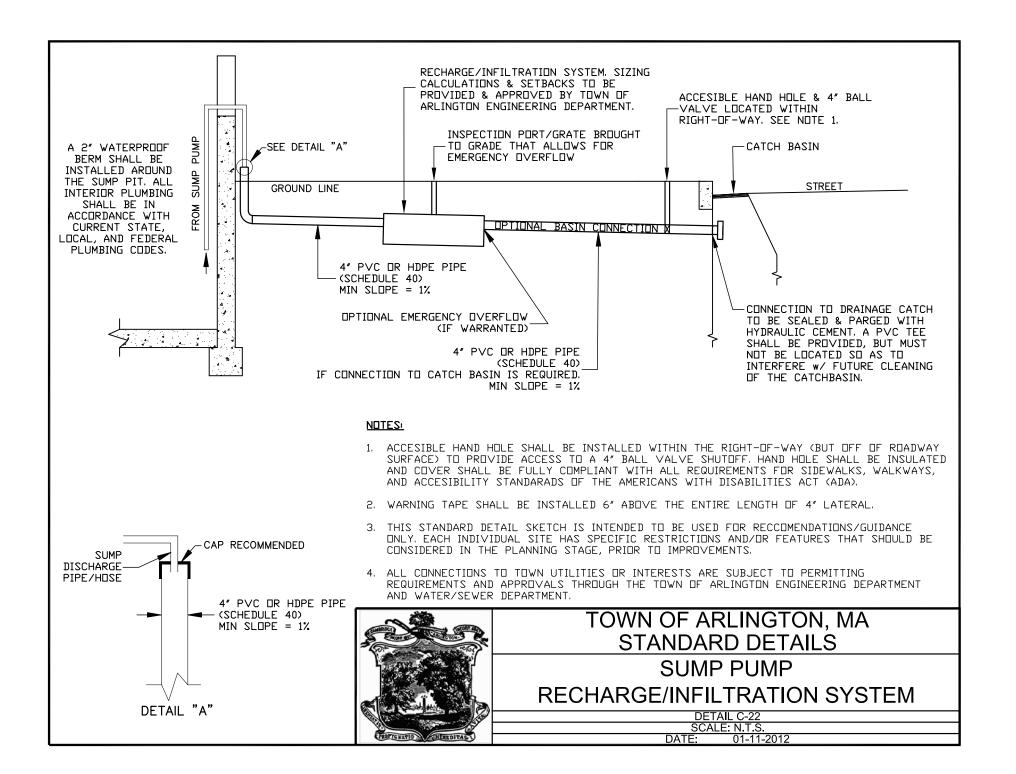
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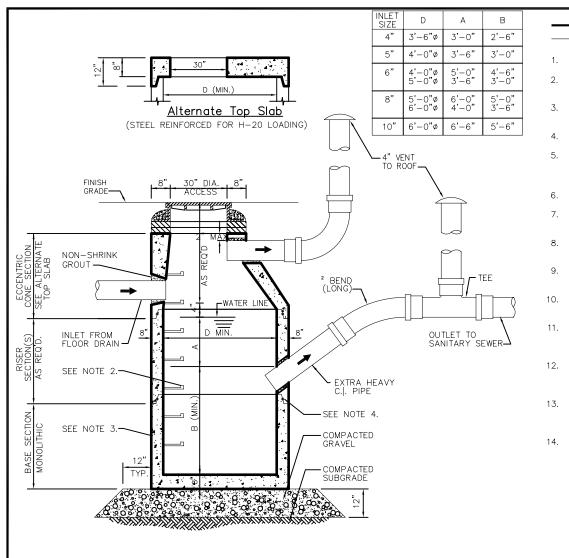


TOWN OF ARLINGTON, MA STANDARD DETAILS

SEWER DROP MANHOLE

DETAIL C-21 SCALE: N.T.S. DATE: 01-28-2011





Notes:

- 1. STRUCTURE SHALL BE DESIGNED FOR HS-20 LOADING.
- COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
- 3. EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
- 4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL BURBER
- STANDARD SEWER MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).
- 6. STRUCTURE TO BE LOCATED OUTSIDE OF BUILDING WHERE POSSIBLE.
- THE STRUCTURE SHALL BE SO LOCATED AND CONSTRUCTED THAT SURFACE WATER SHALL BE EXCLUDED.
- 8. INLET PIPE SHALL BE AT LEAST FOUR INCHES ABOVE NORMAL WATER LINE.
- 9. WHERE SUBJECT TO FROST OR CRUSHING CONDITIONS, OUTLET SHALL BE AT LEAST THREE FEET BELOW THE SURFACE.
- THE NEW SEPARATOR MUST BE FILLED WITH CLEAN WATER BEFORE USING, AND AFTER BEING EMPTIED FOR PERIODIC CLEANING.
- 11. OIL AND GASOLINE MUST BE REMOVED BEFORE CLEANING OUT THE BASIN, AND MUST NOT BE DISCHARGED INTO THE SEWER THROUGH OTHER FIXTURES
- 12. SPECIFICATIONS FOR COVERING SPECIAL CASES OR CONDITIONS, SHALL BE APPROVED BY THE LOCAL AUTHORITIES, AND THE AUTHORITIES OF THE M.W.R.A.
- 13. BOTH VENTS SHALL BE EXTENDED INDEPENDENTLY 18" ABOVE THE ROOF, OR AS APPROVED BY THE LOCAL AUTHORITIES, AND THE AUTHORITIES OF THE M.W.R.A.
- ALL PIPING AND VENT MATERIAL TO BE EXTRA HEAVY CAST IRON OR DUCTILE IRON.



TOWN OF ARLINGTON, MA STANDARD DETAILS

OIL AND GAS SEPARATOR

DETAIL C-23 SCALE: N.T.S. DATE: 02-02-2012