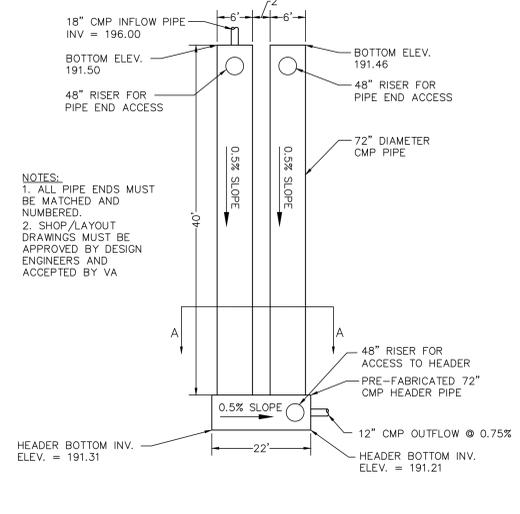
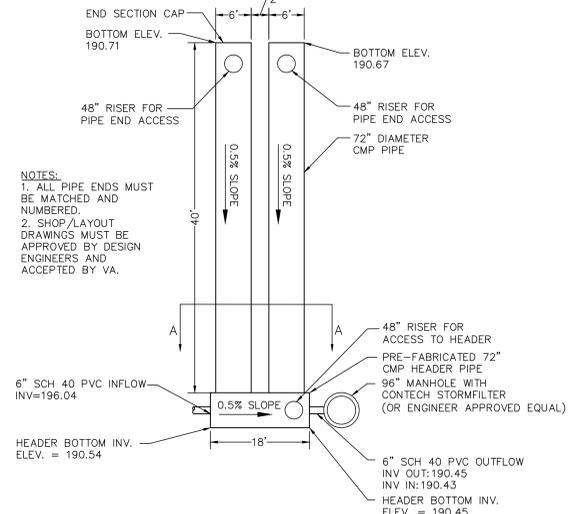


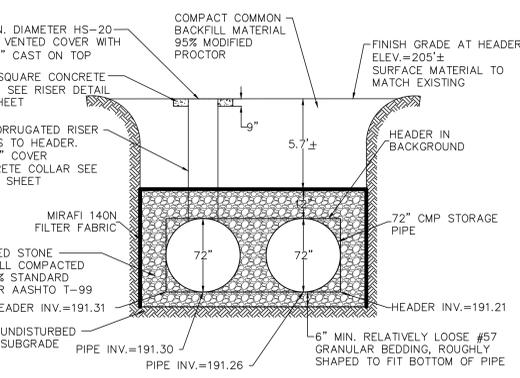
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



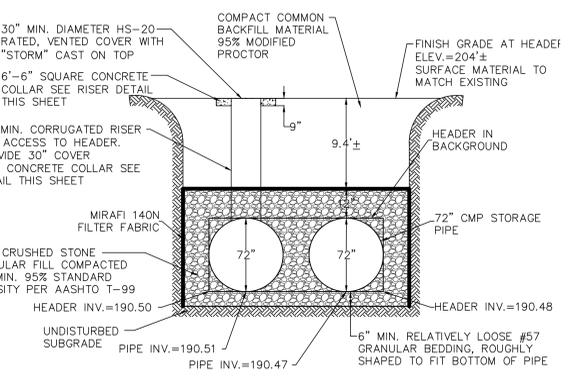
1 WATER QUANTITY VOLUME STORAGE FACILITY DETAIL
 NOT TO SCALE



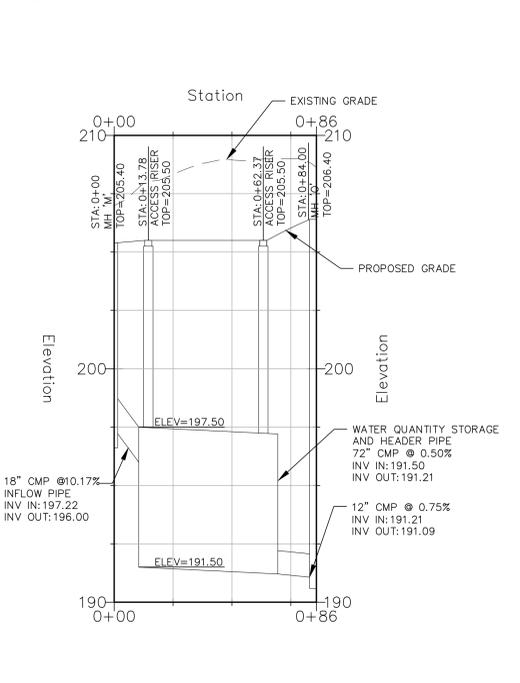
4 WATER QUALITY VOLUME STORAGE FACILITY DETAIL
 NOT TO SCALE



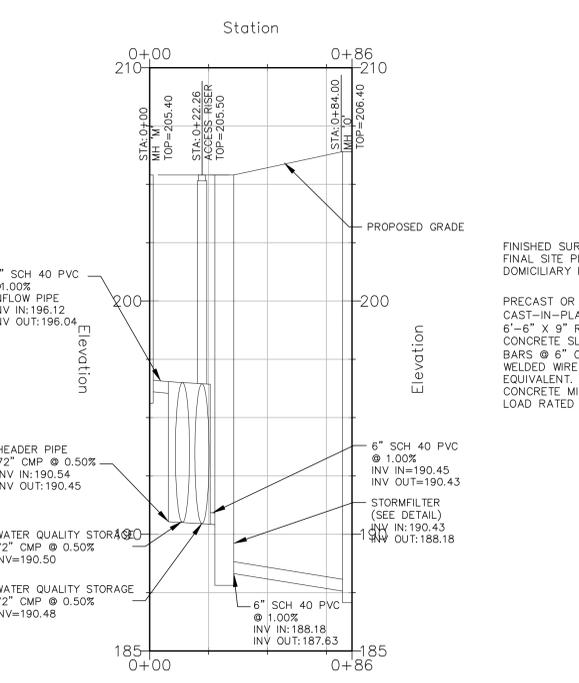
2 WATER QUANTITY VOLUME STORAGE FACILITY SECTION A-A
 NOT TO SCALE



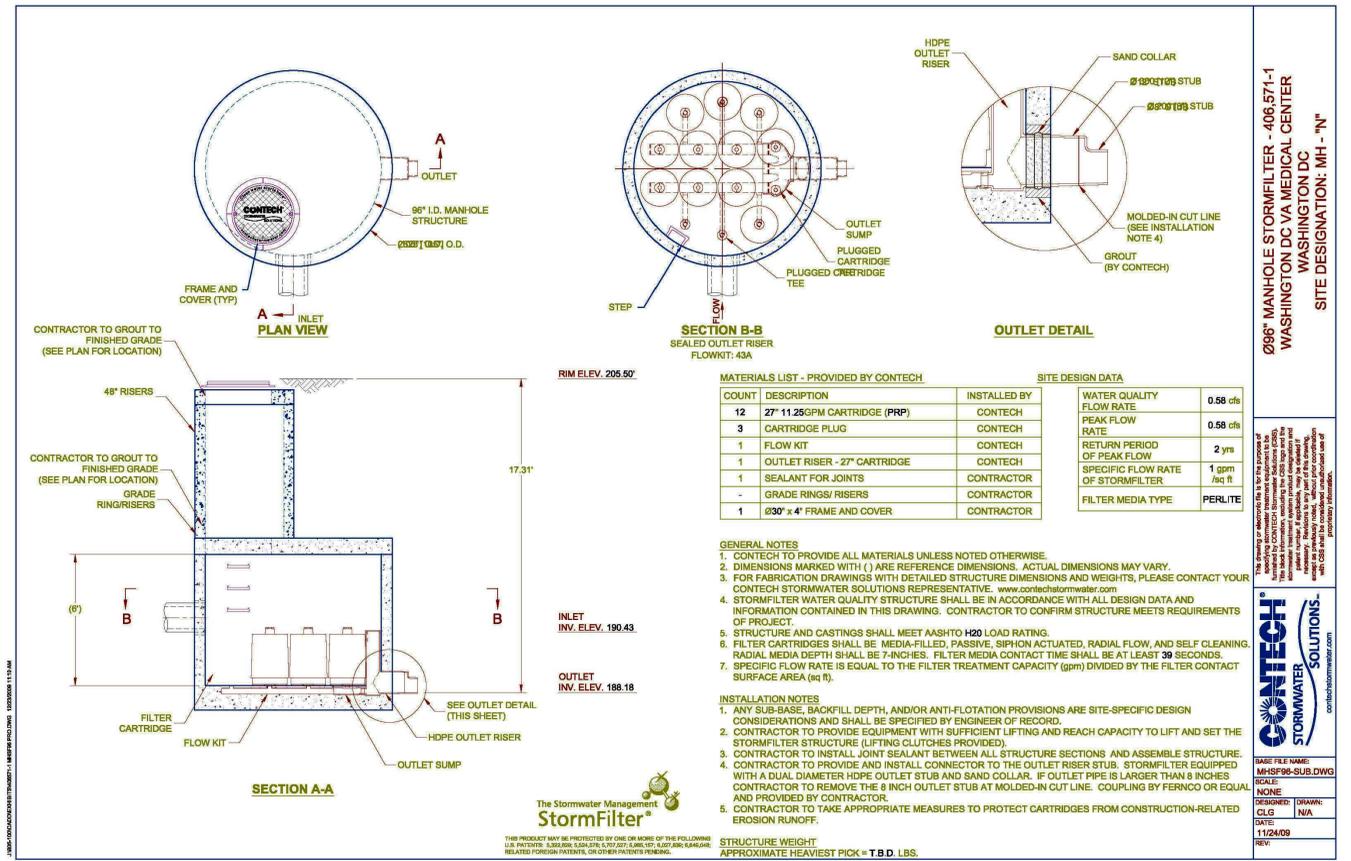
5 WATER QUALITY VOLUME STORAGE FACILITY SECTION A-A
 NOT TO SCALE



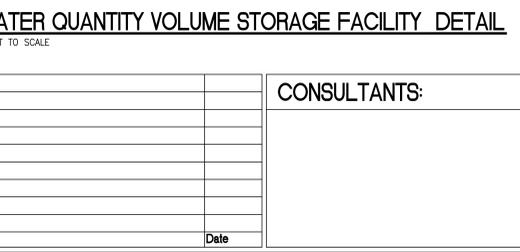
3 WATER QUANTITY VOLUME STORAGE FACILITY DETAIL
 NOT TO SCALE



6 WATER QUALITY VOLUME STORAGE FACILITY DETAIL
 NOT TO SCALE



7 WATER QUALITY VOLUME STORAGE FACILITY SECTION A-A
 NOT TO SCALE



8 48" CMP ACCESS RISER DETAIL
 NOT TO SCALE

UNDERGROUND STORMWATER MANAGEMENT CONSTRUCTION SPECIFICATIONS CORRUGATED METAL PIPE

A. SITE PREPARATION
 AREAS UNDER PIPES AND CONTROL STRUCTURES SHALL BE CLEARED, GRUBBED, AND THE TOPSOIL STRIPPED TO REMOVE ALL TREES, VEGETATION, ROOTS, OR OTHER OBJECTIONABLE MATERIAL.

B. SPECIFICATION FOR CORRUGATED METAL PIPE DESCRIPTION:
 THE ALUMINIZED TYPE 2 CORRUGATED STEEL SHALL BE FABRICATED IN ACCORDANCE WITH AASHTO DESIGNATION M274 FROM A BASE METAL MANUFACTURED IN ACCORDANCE WITH ASTM A-525 COATED UNIFORMLY ON BOTH SIDES WITH 1.00 OZ/50. FT. OF PURE ALUMINUM.

MATERIAL:
 THE 60" DIAMETER CORRUGATED METAL PIPE SHALL BE OF THE CORRUGATION DESIGN AND GAGE INDICATED. THE STEEL PIPE, COUPLERS AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-36 WITH THE PIPE HAVING A 5" X 1" CORRUGATION PROFILE AND SHALL BE A MINIMUM 14" GAGE (0.079). THE COUPLING BANDS SHALL BE THE SAME MATERIAL AS THE PIPE AND SHALL BE A MINIMUM OF 12-INCHES WIDE. THE CORRUGATED METAL PIPE SHALL BE MANUFACTURED WITH CONTINUOUS LOOKSEAM OR BUTT WELDED HELICAL CORRUGATIONS AND HAVING NO LESS THAN TWO ANNUAL CORRUGATIONS REROLLED AT BOTH ENDS OF ANY LENGTH OF PIPE. COUPLING BANDS SHALL BE FORMED WITH TWO CORRUGATIONS THAT ARE SPACED TO PROVIDE SEATING IN THE SECOND REROLLED CORRUGATION OF EACH PIPE END, AND PIPE ENDS SHALL BE MATCHED AND NUMBERED BY THE MANUFACTURER. COUPLING BANDS SHALL BE PER THE APPROVED PLANS. ALL ALUMINIZED SURFACES THAT WILL BE IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH ONE COAT OF ZINC CHROMATE PRIMER.

C. INSTALLATION
 THE CORRUGATED METAL PIPE SHALL BE HANDLED IN A MANNER NOT TO DAMAGE THE PIPE OR COATING. BEDDING AND BACKFILL MATERIAL SHALL BE SELECTED, GRANULAR MATERIAL AND SHALL BE FREE OF ROCKS AND HARD CLODS LARGER THAN 3-INCHES IN SIZE. THE BEDDING AND BACKFILL MATERIAL SHALL BE CAREFULLY PLACED AND CONSOLIDATED EVENLY ON BOTH SIDES OF THE PIPE IN MAXIMUM 8-INCH LOOSE LIFTS. THE PH OF THE SURROUNDING SOIL SHALL BE LESS THAN (9) AND GREATER THAN (4).

THE MATERIAL MUST COMPLETELY FILL ALL SPACES UNDER AND ADJACENT TO THE STRUCTURE OR PIPE. AT NO TIME DURING THE BACKFILL OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF THE STRUCTURE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR DRIVE EQUIPMENT OVER A CONCRETE STRUCTURE OR PIPE UNLESS THERE IS A COMPACTED FILL OF 24-INCHES OR GREATER OVER THE STRUCTURE OR PIPE.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SHORING OF TRENCH WALLS TO PREVENT FAILURE DURING CONSTRUCTION.

D. CONNECTIONS
 ALL CONNECTIONS SHALL BE SOIL TIGHT. THIS INCLUDES ALL ENDCAPS, PIPES, CONNECTIONS TO AND FROM CONCRETE CONTROL STRUCTURE AND ALL CONNECTIONS FROM STORM DRAINAGE SYSTEM. SEE MATERIAL SPECIFICATIONS ABOVE.

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Revisions Date		Date		Date December 2009		Checked JA		Drawn DLW		Date December 2009	

086" MANHOLE STORMFILTER - 406.571-1
 WASHINGTON DC VA MEDICAL CENTER
 WASHINGTON DC
 SITE DESIGNATION: MH - "N"
 CONTECH STORMWATER SOLUTIONS
 11/24/09