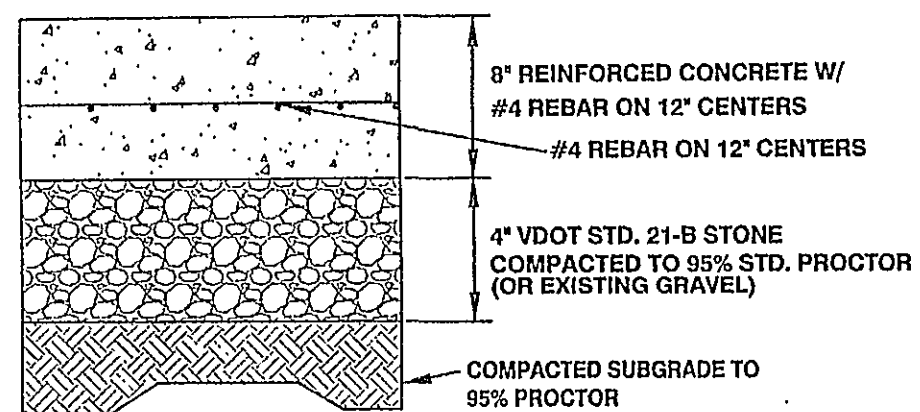
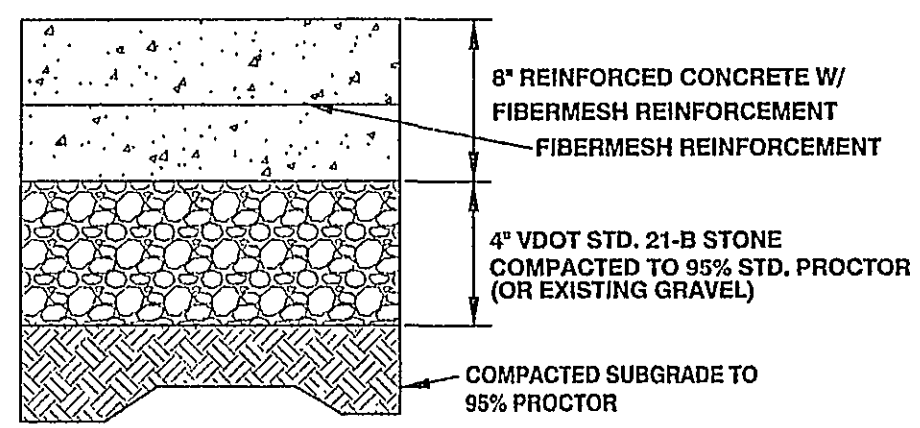
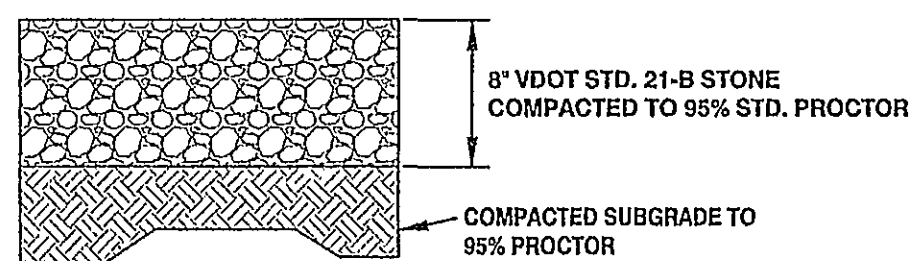




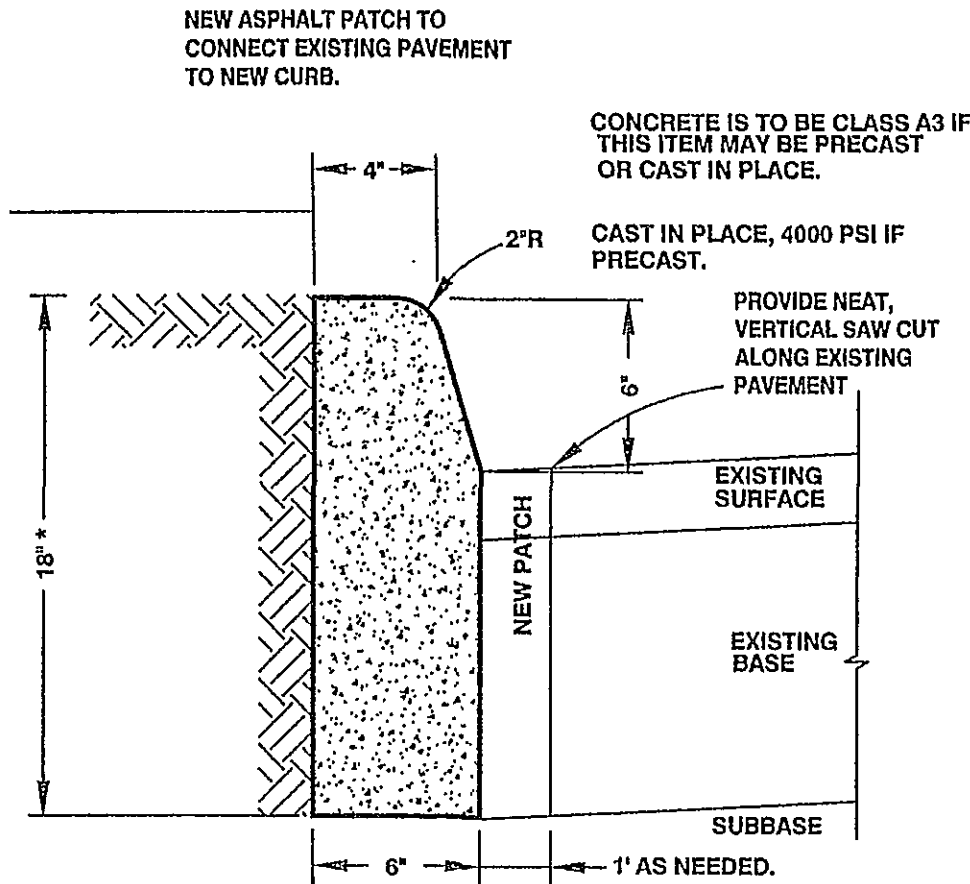
2 TANK AREA CONCRETE PAD DETAIL
NOT TO SCALE



3 TRUCK LOADING AREA CONCRETE PAD DETAIL
NOT TO SCALE



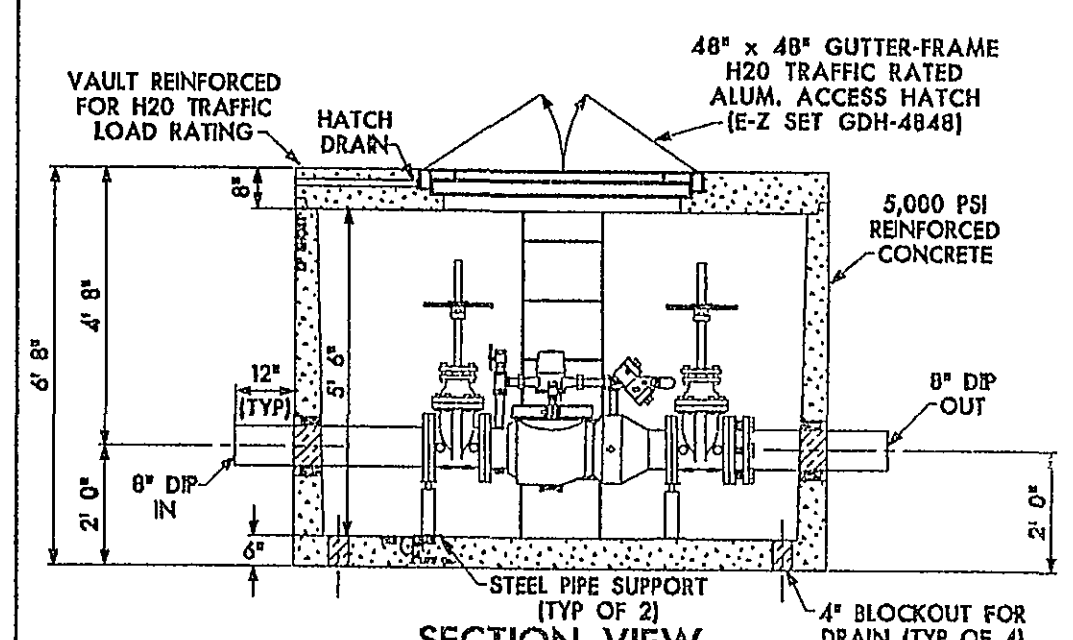
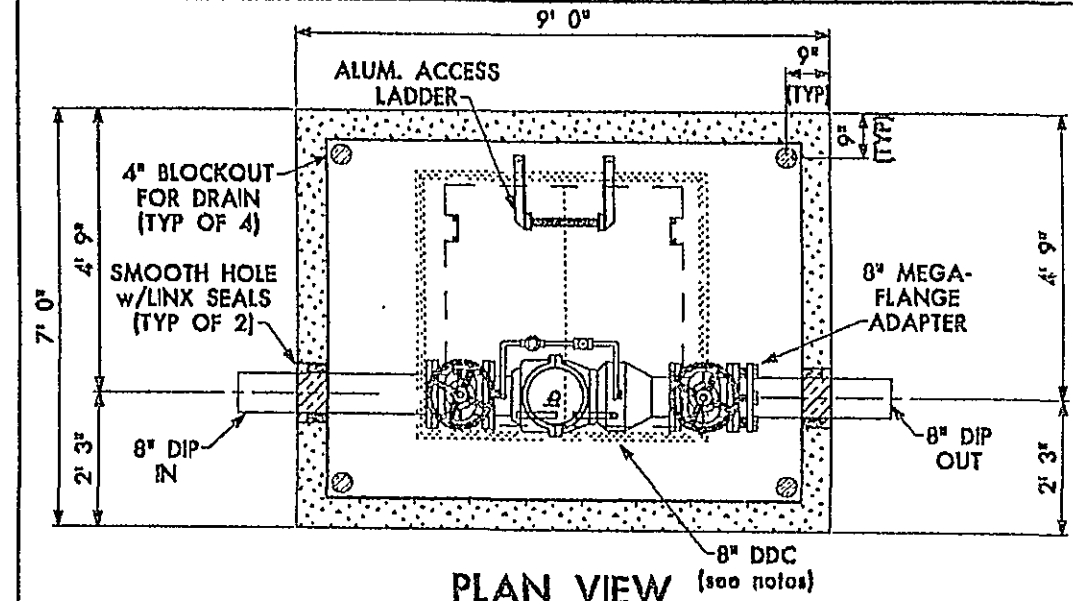
5 NEW GRAVEL DETAIL
NOT TO SCALE



1 STANDARD CG-2
NOT TO SCALE

- CONTRACTOR TO INSTALL A MINIMUM OF 6' TALL FENCE. EXISTING CONDITIONS HAVE 10' TALL FENCE. CONTRACTOR TO INSTALL FENCE AS DIRECTED BY OWNER.
- CHAIN LINK FENCE SHALL BE AN OPAQUE COLOR TO PROVIDE SCREENING OF THE AREA FROM THE PUBLIC RIGHT OF WAY. THIS SHALL BE ACCOMPLISHED BY USE OF SLATS OR POLY VINYL FENCE.

6 SPECIAL NOTES FOR OPAQUE CHAIN LINK FENCE
NOT TO SCALE



- NOTES:**
- CLEAR FLOW VAULT SHIP ASSEMBLED WEIGHING APPROXIMATELY 24,000 LBS.
 - 8" WILKINS 350DA DOUBLE CHECK DETECTOR ASSEMBLY w/METERED BYPASS (GALLONS)

DESIGN	REVIEW & CHECK	DATE
DATE	DATE	DATE
DATE	DATE	DATE
DATE	DATE	DATE
DATE	DATE	DATE

THE CLEAR FLOW CO. ROANOKE, VIRGINIA
P.O. BOX 1497
1321 NORTH DRAKE AVENUE
WAYNESBORO, VIRGINIA 22650
(940) 942-3500

GENERAL SPECIFICATIONS

NO. REQ'D: (1)
CAPACITY: 1000 GALLONS
TYPE: HT, ACT-100-U, DOUBLE WALL, "U" SERIES
MATERIAL: MILD CARBON STEEL
FLOW RATE: 100 GPM

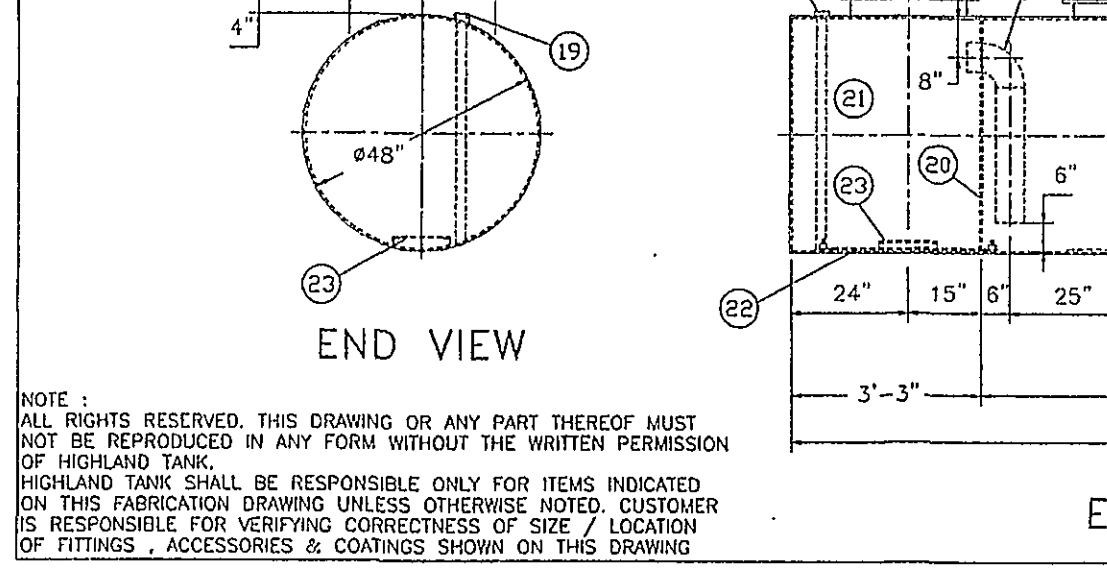
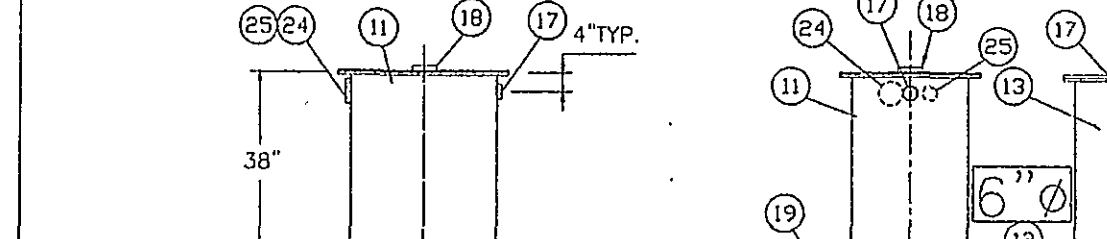
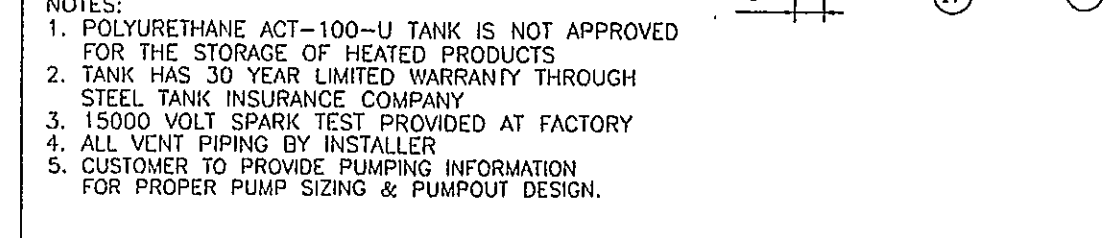
GAUGE: SHELL- 7 GA. INNER 10 GA. OUTER 10 GA.
HEADS- 7 GA. 10 GA.

SURFACE PREP:
- SSPC NO 6 BLAST ALL EXTERIOR SURFACES
- SSPC NO 10 BLAST ALL INTERIOR SURFACES
OF WATER CHAMBER ONLY

COATING: MATERIAL THICKNESS
EXTERIOR- POLYURETHANE (70 MILS)
INTERIOR- POLYURETHANE (15 MILS)
CHAMBER ONLY

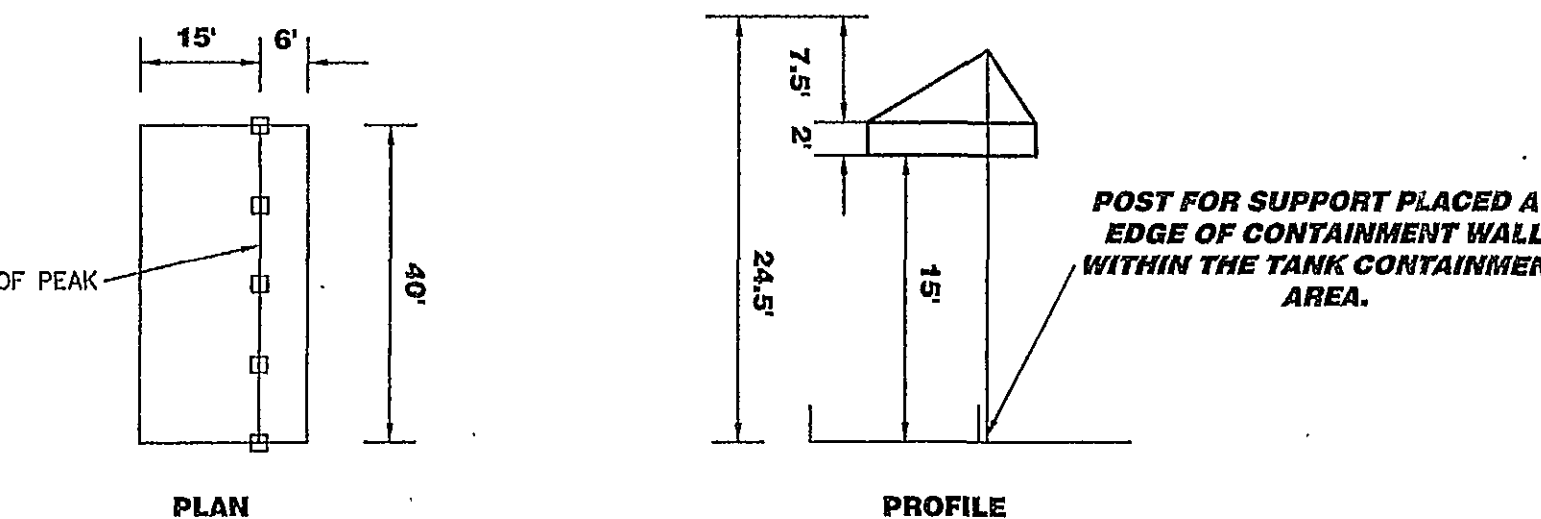
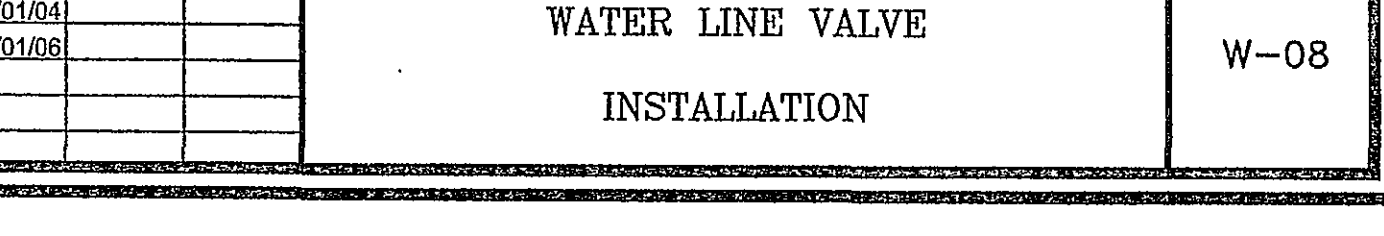
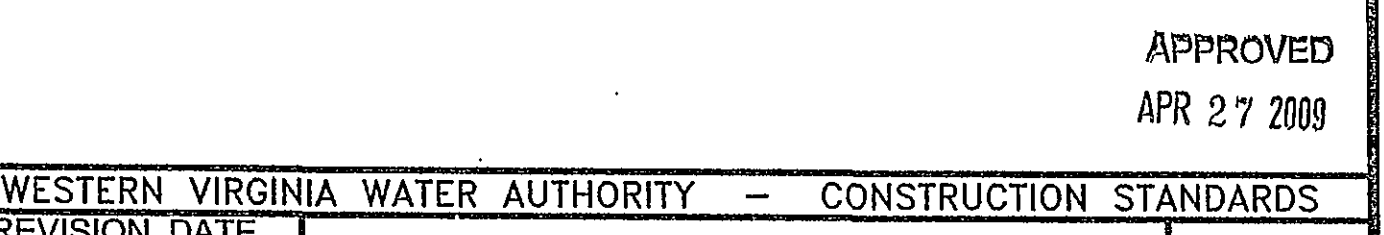
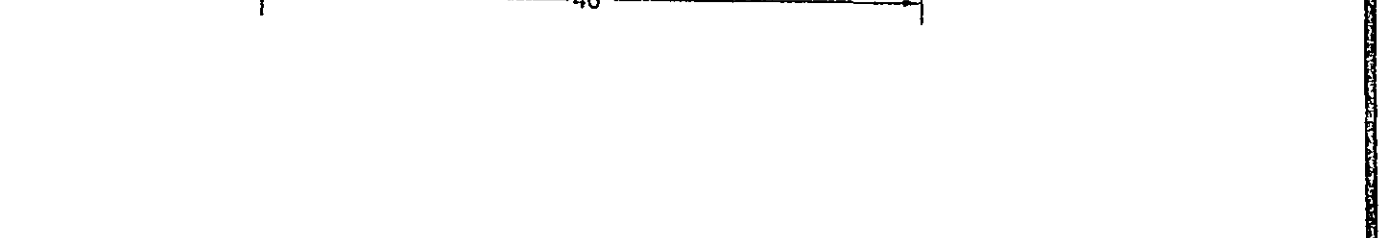
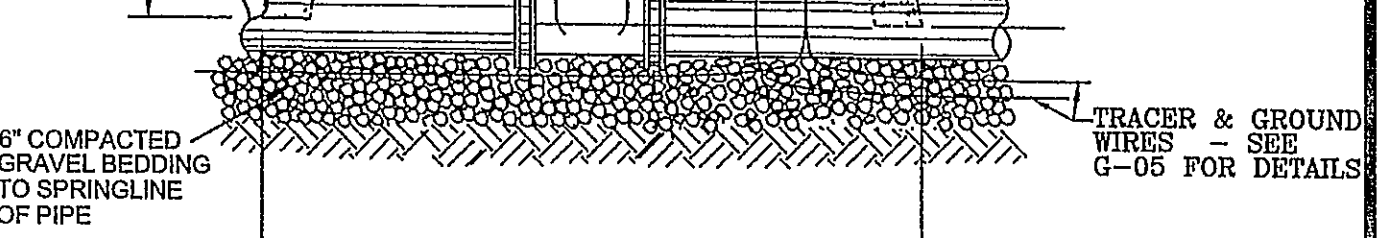
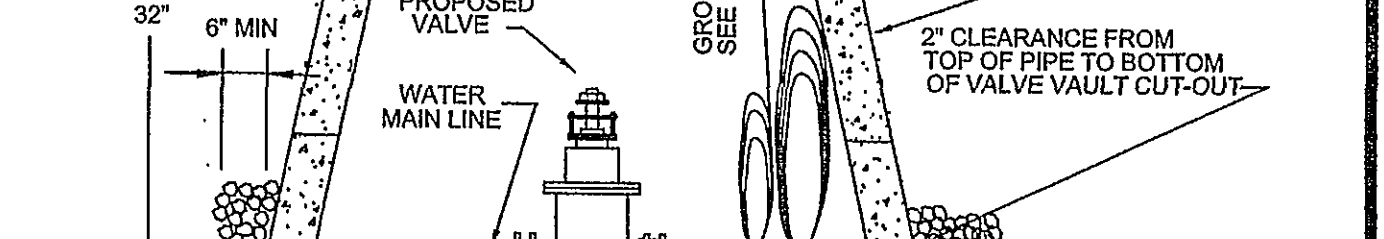
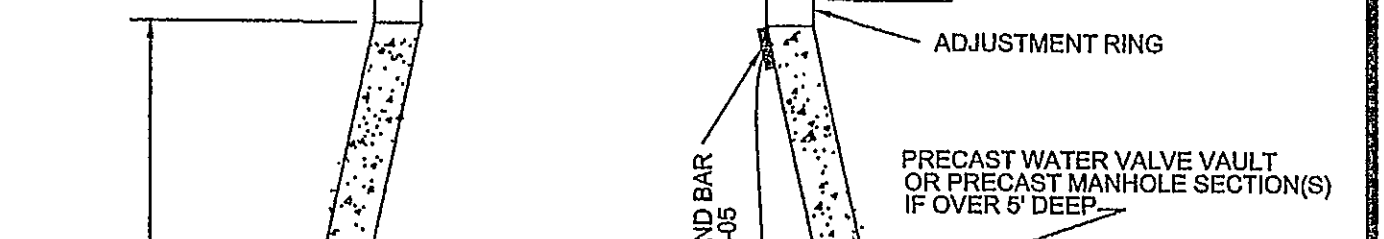
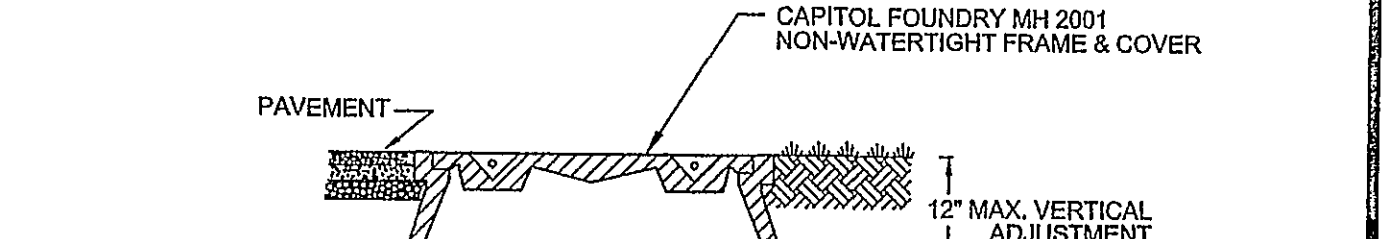
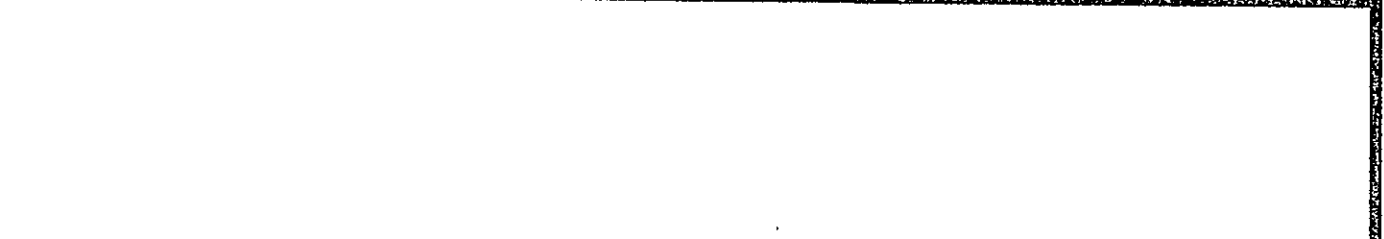
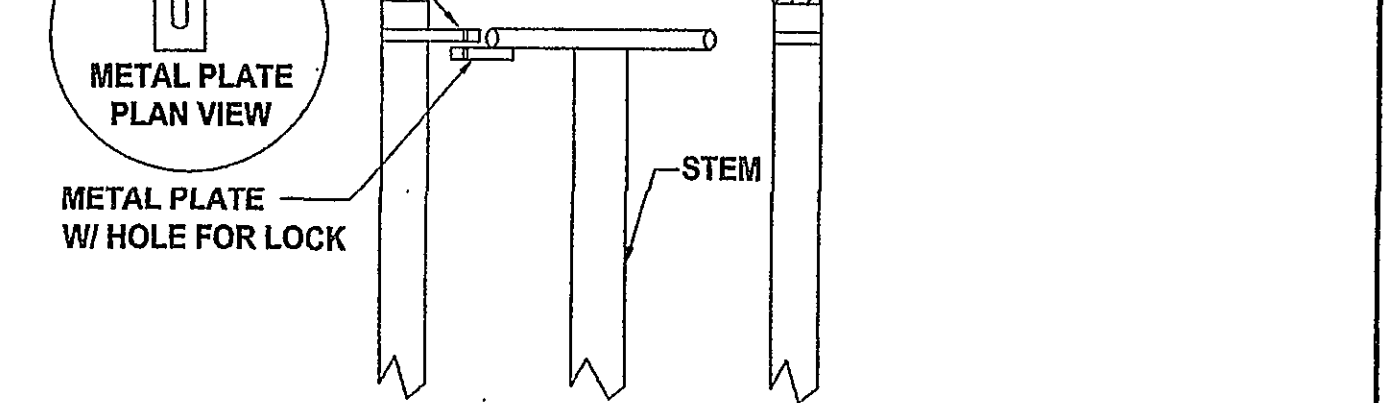
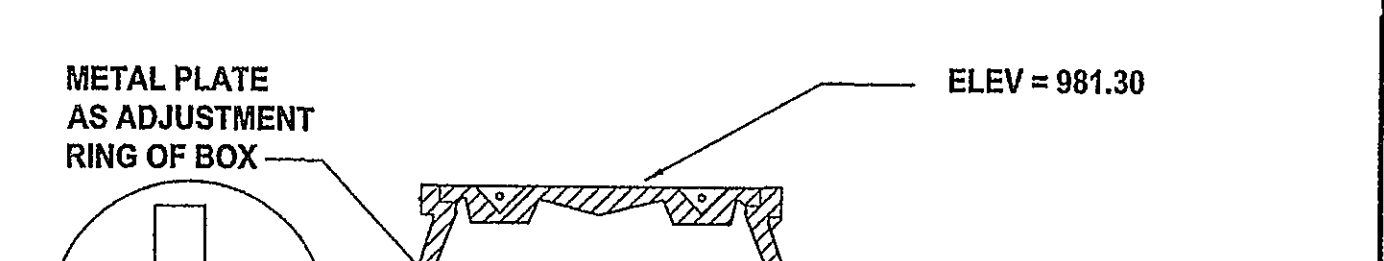
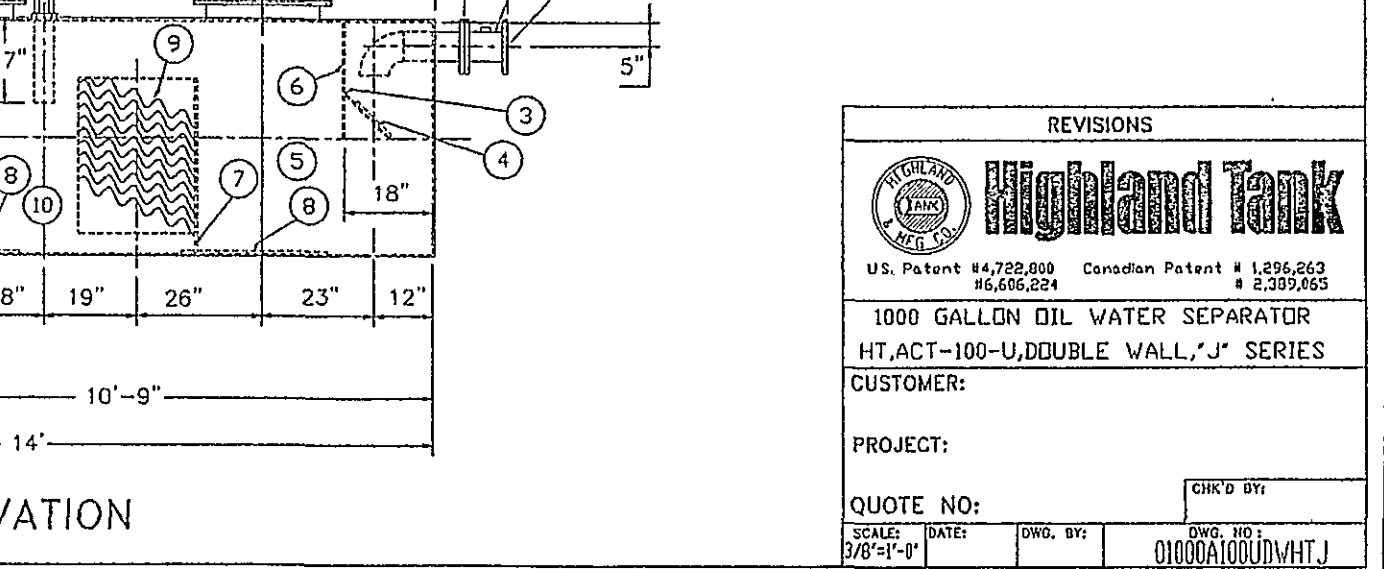
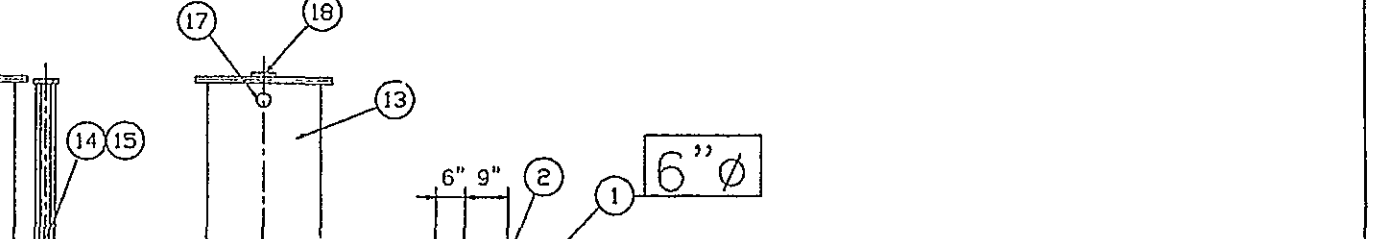
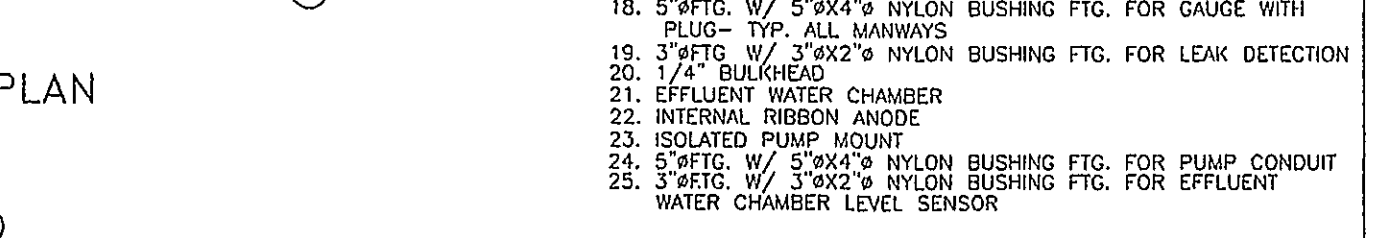
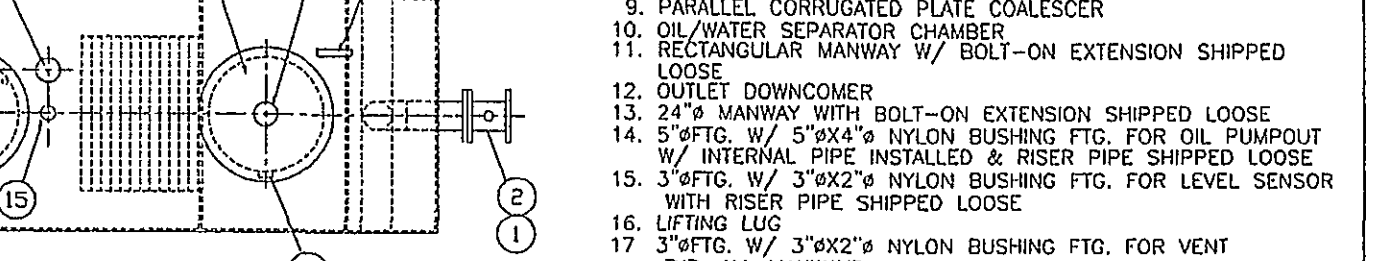
CONSTRUCTION: LAP FIT AND WELD ALL EXTERIOR SEAMS
OPERATING PRESSURE: ATMOSPHERIC

- NOTES:**
- POLYURETHANE ACT-100-U TANK IS NOT APPROVED FOR THE STORAGE OF HEATED PRODUCTS
 - TANK HAS 30 YEAR LIMITED WARRANTY THROUGH STEEL TANK INSURANCE COMPANY
 - 15000 VOLT SPARK TEST PROVIDED AT FACTORY
 - ALL VENT PIPING BY INSTALLER
 - CUSTOMER TO PROVIDE PUMPING INFORMATION FOR PROPER PUMP SIZING & PUMPOUT DESIGN.



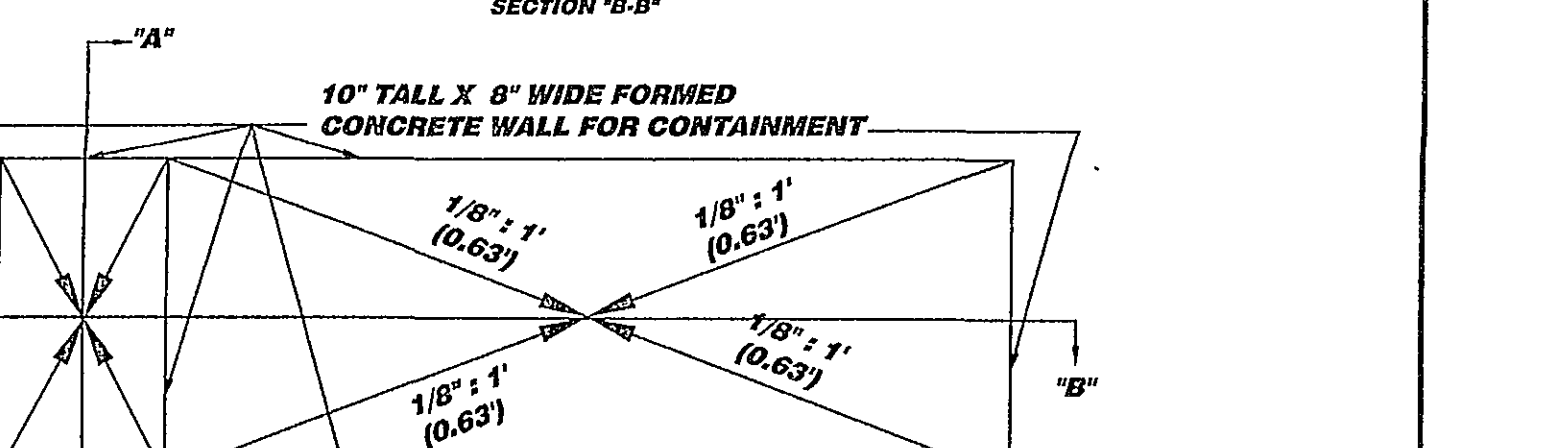
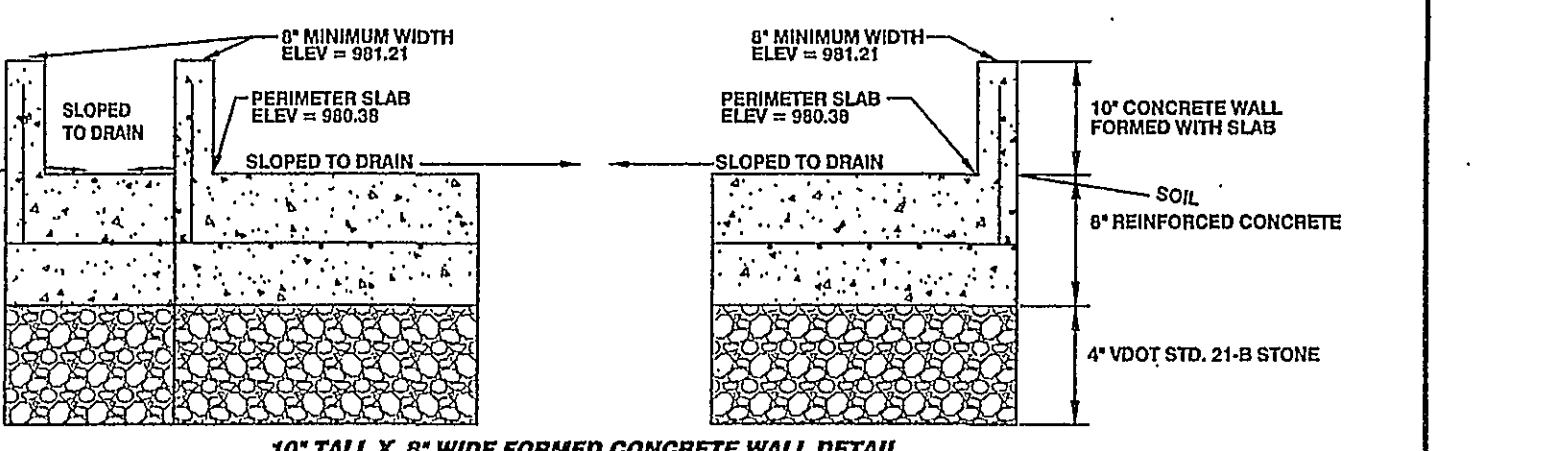
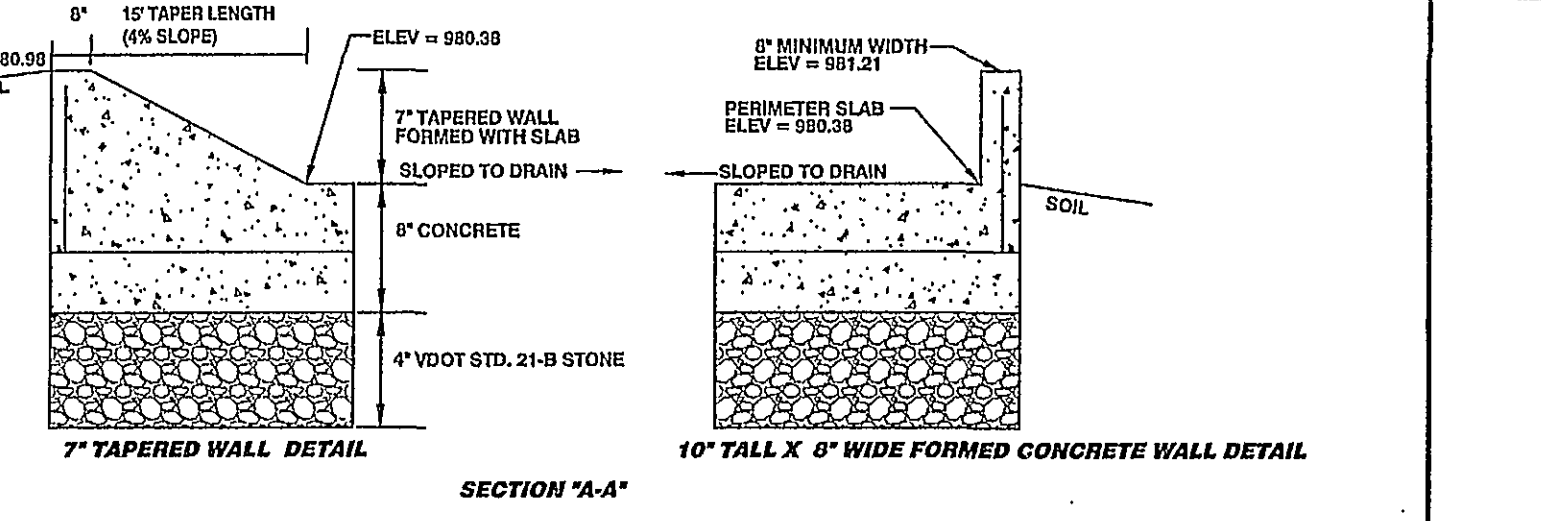
GATE VALVES FOR THE STORM PIPES SHALL ALSO UTILIZE DETAIL W-08 FOR VALVE INSTALLATION. CONTRACTOR SHALL INSTALL STEM WITH HANDLE TO ELEVATION SHOWN. A METAL PLATE SHALL BE WELDED TO THE HANDLE SO THAT THE HANDLE CAN BE LOCKED TO VALVE BOX.

- PROVIDED EQUIPMENT**
- 150' R.F.S.O. FLANGE
 - ISOLATION SPOOL PIECE WITH 2" NPT FOR VENT
 - VELOCITY HEAD DIFFUSION DAFFLE
 - WEAR PLATE
 - SEDIMENT CHAMBER
 - UNDERFLOW DAFFLE
 - SLUDGE DAFFLE
 - STRIKER PLATES
 - PARALLEL CORRUGATED PLATE COALESCE
 - OIL/WATER SEPARATOR CHAMBER
 - RECTANGULAR MANWAY W/ BOLT-ON EXTENSION SHIPPED LOOSE
 - OUTLET DOWNCOMER
 - 24" MANWAY WITH BOLT-ON EXTENSION SHIPPED LOOSE
 - 5" FTG. W/ 5" X 4" NYLON BUSHING FTG. FOR OIL PUMPOUT W/ INTERNAL PIPE INSTALLED & RISER PIPE SHIPPED LOOSE
 - 3" FTG. W/ 3" X 2" NYLON BUSHING FTG. FOR LEVEL SENSOR WITH RISER PIPE SHIPPED LOOSE
 - LIFTING LUG
 - 3" FTG. W/ 3" X 2" NYLON BUSHING FTG. FOR VENT
 - 5" FTG. W/ 5" X 4" NYLON BUSHING FTG. FOR GAUGE WITH PLUG- TYP. ALL MANWAYS
 - 3" FTG. W/ 3" X 2" NYLON BUSHING FTG. FOR LEAK DETECTION
 - 1/4" BULKHEAD
 - EFFLUENT WATER CHAMBER
 - INTERNAL RIBBON ANODE
 - ISOLATED PUMP MOUNT
 - 5" FTG. W/ 5" X 4" NYLON BUSHING FTG. FOR PUMP CONDUIT
 - 3" FTG. W/ 3" X 2" NYLON BUSHING FTG. FOR EFFLUENT WATER CHAMBER LEVEL SENSOR

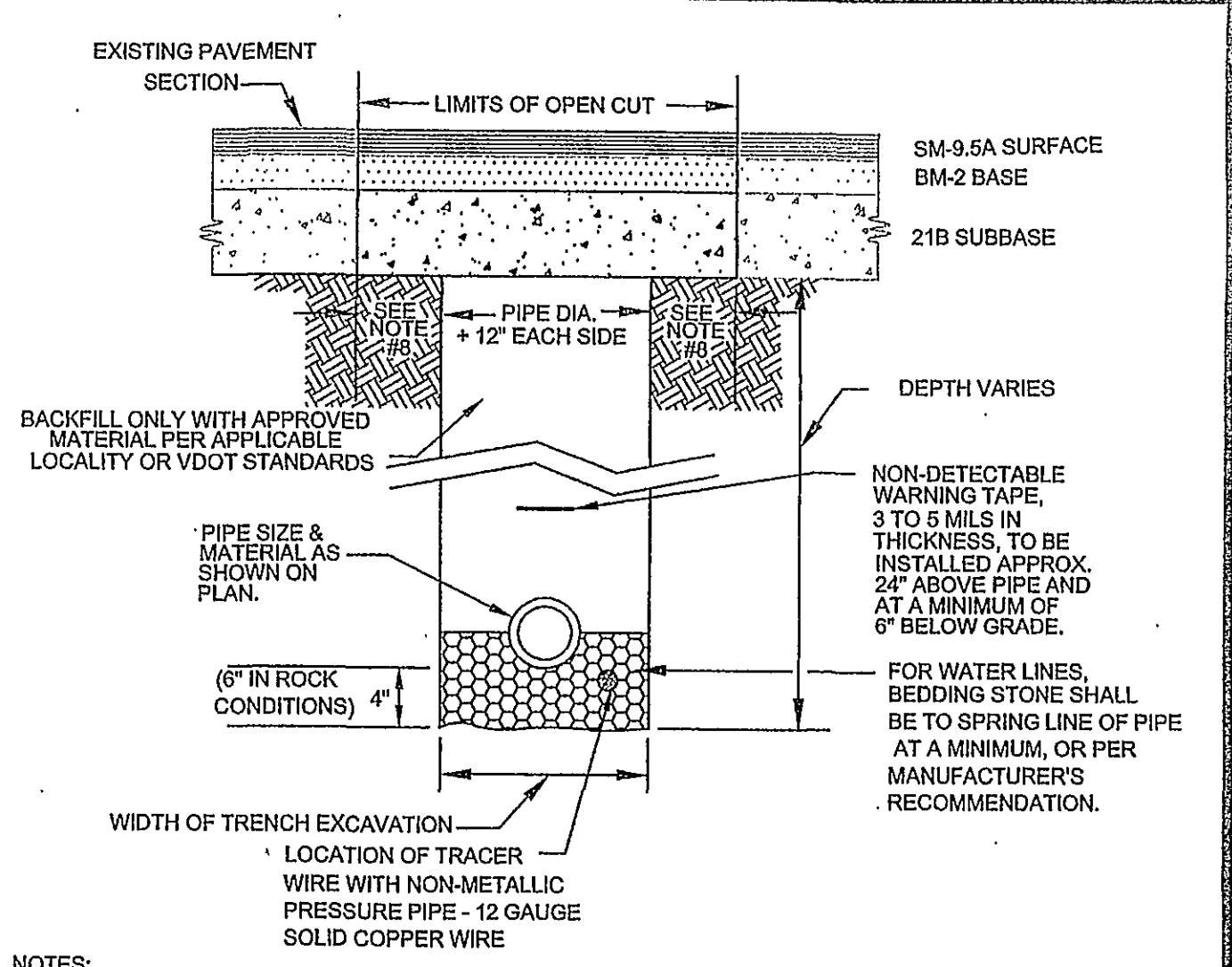


8 PROPOSED ROOF STRUCTURE (GENERAL INFORMATION)
NOT TO SCALE

THE INFORMATION SHOWN ON THIS DETAIL DOES NOT CONSTITUTE A STRUCTURAL DESIGN. THE STRUCTURAL DESIGN SHALL BE COMPLETED BY OTHERS.



9 CONTAINMENT WALL DETAILS
NOT TO SCALE

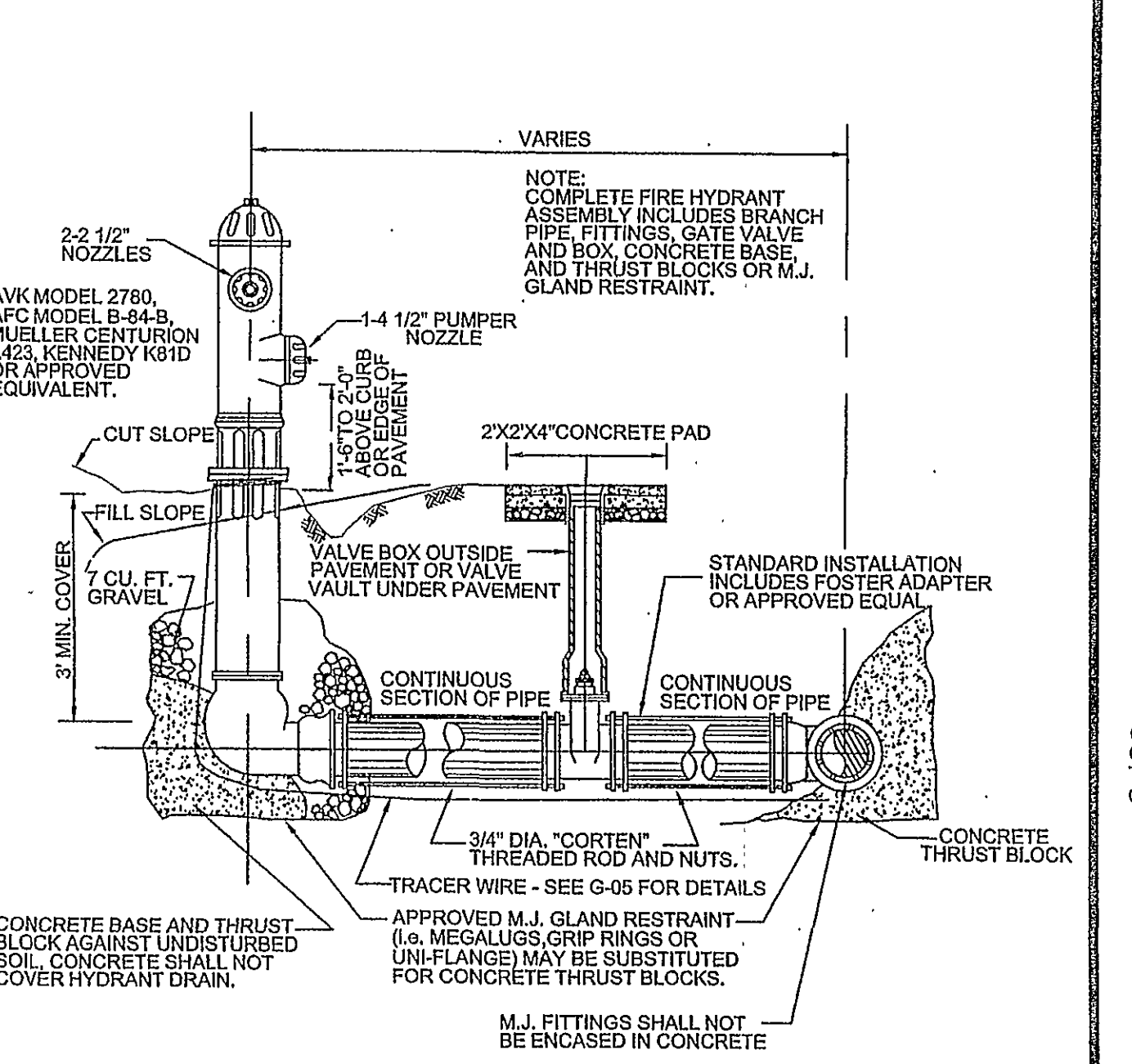


- NOTES:**
- BEDDING, HAUNCHING AND INITIAL BACKFILL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
 - ALL PVC PIPE SHALL BE BEDDED IN COMPACTED VDOT #57 OR #68 STONE.
 - IN ROANOKE COUNTY, THE CONTRACTOR SHALL REPLACE THE OPEN CUT WITH A MINIMUM TOP COURSE OF 1.5" (MINIMUM) VDOT SM-9.5A, BASE COURSE OF 6" VDOT BM-254, AND SUBBASE OF 10" VDOT 21B, OR AS REQUIRED BY VDOT. IN ROANOKE CITY, CONTRACTOR SHALL REPLACE PAVEMENT AS REQUIRED BY CITY OF ROANOKE RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS.
 - ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE AS SPECIFIED BY VDOT OR APPLICABLE LOCALITY.
 - PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS FROM VDOT AND/OR APPLICABLE LOCALITY.
 - IN AREAS SUBJECTED TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 6" LIFTS AND SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 698.
 - BEDDING REQUIREMENTS FOR DUCTILE WATER LINE ARE DEPENDENT ON MANUFACTURER'S BEDDING CRITERIA.
 - BENCHOUT ON EACH SIDE OF PAVEMENT: CITY OF ROANOKE EQUALS 12" VDOT RIGHT-OF-WAY EQUALS 6".
 - ALL EXCAVATIONS SHALL COMPLY WITH OSHA TECHNICAL MANUAL CHAPTER 2, TITLED "EXCAVATIONS: HAZARD RECOGNITION IN TRENCHING AND SHORING."

REVISION DATE	07/01/04	03/01/06
REVISION DATE	07/01/04	03/01/06
REVISION DATE	07/01/04	03/01/06
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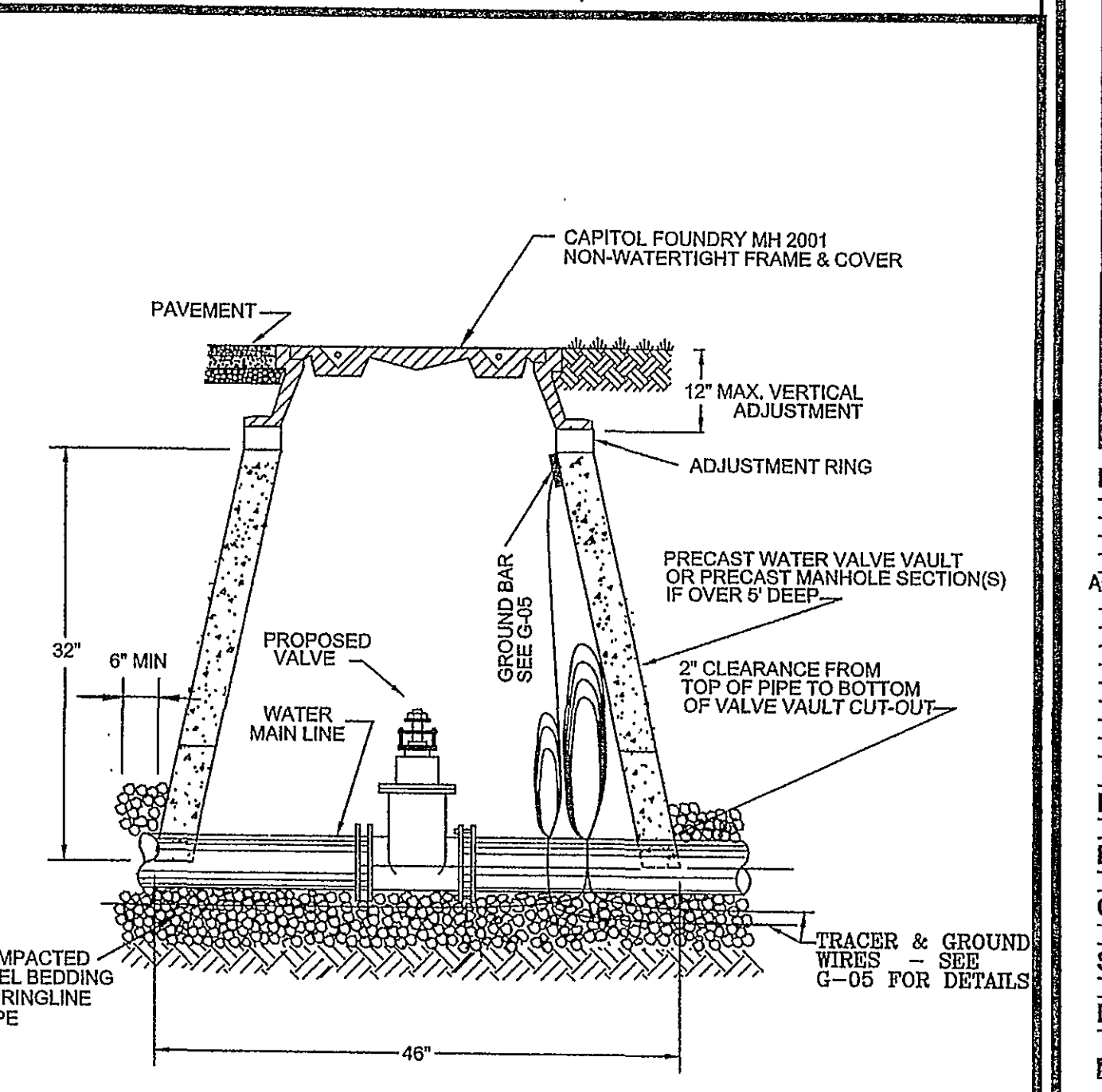
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS
W-25
BEDDING AND BACKFILL UNDER PAVEMENT AND RIGHT-OF-WAY

- NOTES:**
- PUBLIC HYDRANTS SHALL BE PAINTED SILVER WITH AN OIL-BASED PAINT AND PRIVATE HYDRANTS SHALL BE PAINTED WHITE WITH AN OIL-BASED PAINT.
 - FIRE HYDRANT SHALL BE INSTALLED 2' MIN. AND 4' MAX. FROM BACK OF CURB OR 6' MIN. AND 12' MAX. WHEN CURB IS NOT PRESENT. FIRE HYDRANT TO BE INSTALLED WITHIN RIGHT-OF-WAY OR EASEMENT LINE.
 - AREA AROUND HYDRANT AT A RADIUS OF 4' TO BE LEVEL AND UNOBSTRUCTED.
 - WATERPROOF BAGS SHALL BE PLACED OVER ALL NEWLY INSTALLED FIRE HYDRANTS.
 - HIGH PRESSURE (OVER 120 PSI) REQUIRES THE USE ALL 3 RESTRAINTS.



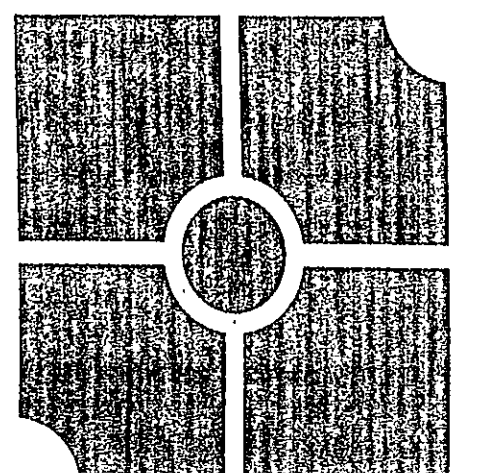
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REVISION DATE	07/01/04	03/01/06
REVISION DATE	07/01/04	03/01/06

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS
W-18
FIRE HYDRANT ASSEMBLY



REVISION DATE	07/01/04	03/01/06
REVISION DATE	07/01/04	03/01/06
REVISION DATE	07/01/04	03/01/06
REVISION DATE	07/01/04	03/01/06
REVISION DATE	07/01/04	03/01/06

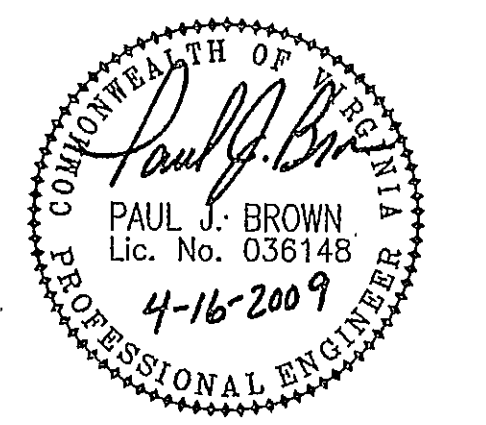
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS
W-08
WATER LINE VALVE INSTALLATION



parker
DESIGN GROUP

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Salem, Virginia 24153
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www.parkergd.com

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**Comprehensive Site Plan for
Tank Containment Expansion**
for PM Properties, Inc.
3643 Aerial Way Drive, S.W.; Tax # 5220602
City of Roanoke, VA

DESIGNED BY:	PJB
DRAWN BY:	MFV
CHECKED BY:	PJB
SCALE:	As Shown
DATE:	December 17, 2008

REVISIONS:

Address City Comments - Remove	02/21/2009
SS Details: Add 1st floor	03/26/2009
Address City, SECCC, & WVA Comments	

C08
08 OF 08
PROJECT NUMBER:
08-0323-01