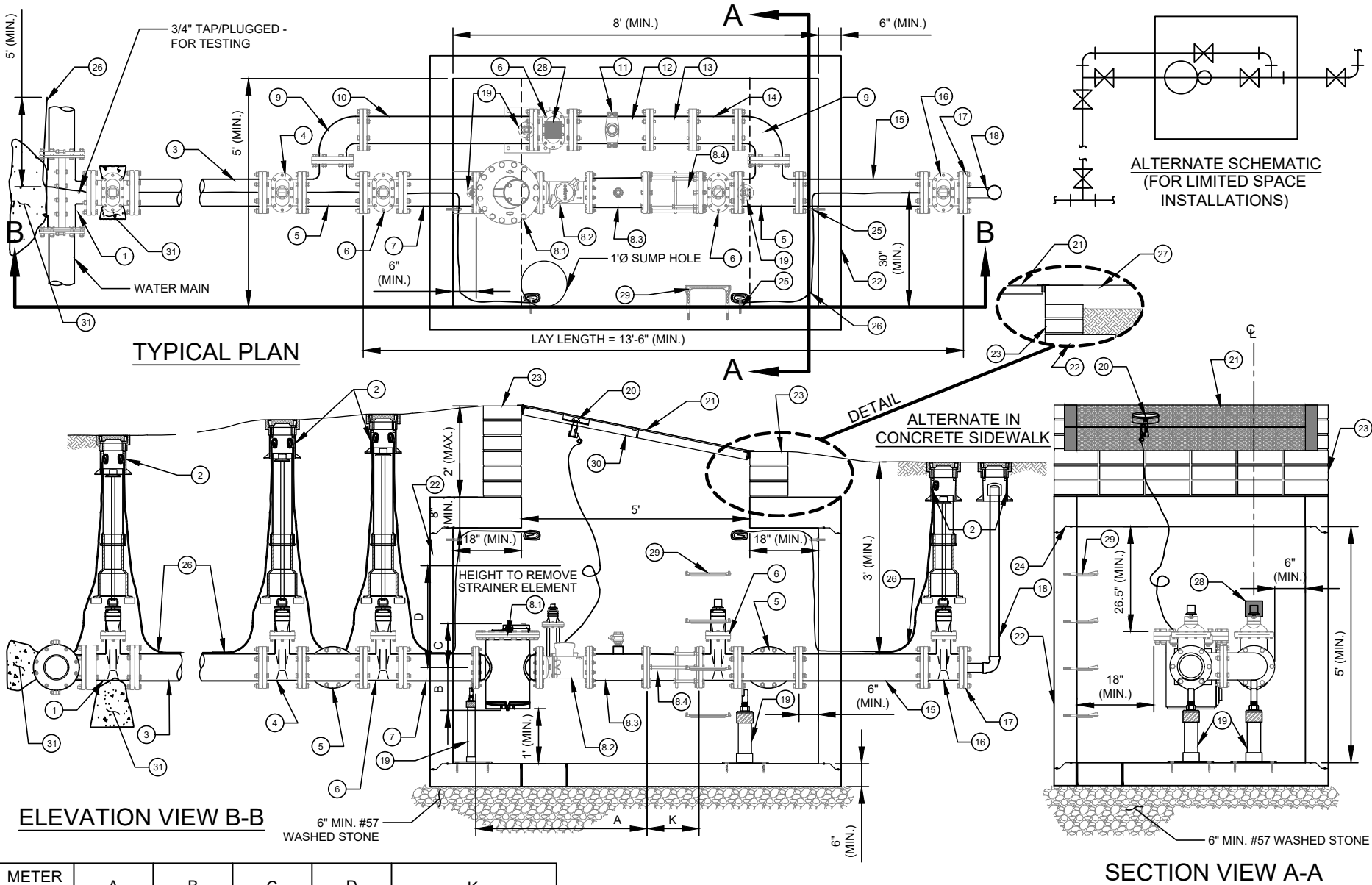


- NOTES:
- A. ALL FLANGE HARDWARE (BOLT/WASHER/NUT) SHALL BE STAINLESS STEEL - TYPE 304 WITH ANTI-SEIZE COMPOUND.
- B. ALL PIPE SHALL BE RESTRAINED JOINT DUCTILE IRON FROM TAP TO PROPERTY LINE VALVE.
- C. METER CONFIGURATION AND LENGTH / WIDTH MAY VARY DUE TO BRAND - VERIFY DIMENSIONS TO DETERMINE MINIMUM VAULT SIZE.
- D. VAULT SHALL BE SIZED AS NEEDED FOR MINIMUM CLEARANCE AS SHOWN AND RATED FOR NCDOT HS-20 LOADING - SUBMIT SHOP DRAWINGS / P.E. SEALED FOR REVIEW.
- E. ALL CONCRETE SHALL BE MINIMUM 4,000 PSI COMPRESSIVE STRENGTH.
- F. DESIGN SHALL CONFORM TO ASTM C858 - SPECIFICATIONS FOR "UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE".

- G. STEEL REINFORCING DESIGN SHALL CONFORM TO ASTM C857.
- H. REBAR SHALL BE GRADE 60 PER ASTM A615.
- I. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- J. DIAGONAL REINFORCING SHALL BE ADDED AT ALL OPENINGS.
- K. PIPE PENETRATIONS SHALL BE SEALED WITH FLEXIBLE CONNECTORS (MANHOLE BOOTS) OR WITH 8" OF BRICK & MORTAR (AND 1/2-INCH THICK CONSTRUCTION EXPANSION MATERIAL).
- L. FRAME TO BE FLUSH WITH GROUND OR CONCRETE SIDEWALK, GROUND SHALL SLOPE AWAY FROM VAULT.
- M. ALL JOINTS SHALL BE MADE WATERTIGHT USING 2 RINGS OF BUTYL RUBBER JOINT MASTIC.
- N. ALL VALVES SHALL BE OPEN RIGHT - CLOCKWISE, EXCEPT NO. 16.
- O. PRECAST VAULT COMPONENTS SHALL HAVE MARKINGS PAR ASTM C478 REQUIREMENTS.



- NO. DESCRIPTION:
- 6" TAPPING SLEEVE AND 6" FL X MJ TAPPING VALVE ON EXISTING MAIN. 6" MECHANICAL JOINT OUTLET TEE, 6" FOSTER ADAPTOR, (OR SWIVEL TEE) AND 6" MJ GATE VALVE ON NEW MAIN.
 - STANDARD VALVE BOX ASSEMBLY (TYPICAL) - ALL VALVES.
 - 6" DUCTILE IRON PIPE - RESTRAINED.
 - 6" MJ X FL DUCTILE IRON ADAPTER ON SHORT SIDE SERVICE (NOT SHOWN), 6" MJ X FL GATE VALVE ON LONG SIDE SERVICE (SHOWN).
 - 6" ALL FLANGE DUCTILE IRON TEE.
 - 6" ALL FLANGE GATE VALVE.
 - 6" ALL FLANGE DUCTILE IRON PIPE SPOOL - L = 30" (MIN.) (SPECIAL CLASS 53).
 - 6" ULTRASONIC WATER METER ASSEMBLY (FLANGE X FLANGE).
 1. BERMAD MODEL FP-60F-D FIRE RATED BASKET STRAINER (FL X FL). LL = 14.9"
 2. 6-INCH MASTER METER OCTAVE OR BADGER E-SERIES OR NEPTUNE MACH 10 WITH ITRON W100 TRANSMITTER - LL = 18".
 3. 6" EPOXY COATED/LINED STEEL FLANGE X FLANGE SPOOL WITH 2" FNPT TEST OUTLET - LL = 12" (MARS CO.) AND 2" BALL CORPORATION STOP WITH T-HEAD OPERATING NUT - MNPT X FNPT.
 4. ROMAC D J400 DISMANTLING JOINT - LL = 7.38" TO 9.38", SET TO 9" OR SMITH-BLAIR MODEL 975 DISMANTLING JOINT (RESTRAINED) - LL = 8" TO 10", SET TO 9". ALL HARDWARE BOLTS, NUTS AND TIE RODS SHALL BE 304 S.S.
 - 6" DUCTILE IRON 90° BEND FLANGE X FLANGE.
 - 6" DUCTILE IRON PIPE - FLANGE X FLANGE SPOOL - L = 58.5" (MIN.) (SPECIAL CLASS 53).
 - 6" X1 1/2" SERVICE SADDLE WITH 1 1/2" BALL CORPORATION STOP WITH T-HEAD OPERATING NUT - CC - TAPER THREAD X FNPT.
 - 6" DUCTILE IRON PIPE - FLANGE X PE - L = 24" (MIN.) (SPECIAL CLASS 53).
 - 6" MECHANICAL JOINT DUCTILE IRON LONG PATTERN SOLID SLEEVE WITH RESTRAINED JOINT.
 - 6" DUCTILE IRON PIPE - FLANGE X PE - L = 12" (MIN.) (SPECIAL CLASS 53).
 - 6" DUCTILE IRON PIPE - FLANGE X PE - L = 30" (MIN.) (SPECIAL CLASS 53).
 - 6" MECHANICAL JOINT (RJ) GATE VALVE - OPEN LEFT AT PROPERTY LINE.
 - 6" MECHANICAL JOINT PLUG WITH 2" TAP (FNPT).
 - 2" TEMPORARY BLOW OFF ASSEMBLY (GALV. STEEL (SCH 80) OR RED BRASS (SCH 40) - END WITH THREADED COUPLING).
 - GALV. STEEL OR S.S. ADJUSTABLE FLANGE PIPE SUPPORTS (NUMBER REQUIRED = 3) (WITH STAINLESS STEEL ADHESIVE ANCHORS).
 - AMR TRANSMITTER.
 - 5' X 5' ACCESS DOOR - SEE STD. DETAIL.
 - PRECAST REINFORCED CONCRETE VAULT - 8' X 5' X 5' (MIN.) (L X W X D). SEE NOTES C AND D.
 - MINIMUM OF THREE STD. SOLID CONCRETE BRICK COURSES (OR PRECAST RISER) UNDER ACCESS DOOR FRAME - MAX. 2". JOINT REQUIRED AT FLAT TOP SECTION.
 - 3/8" DIAMETER GALV. STEEL EYE BOLT (EPOXY ADHESIVE ANCHOR) - TYPICAL.
 - AWG #12 GAUGE SOLID COPPER TRACER WIRE - WITH BLUE INSULATION (30 MILS HDPE) TERMINATE WITH 24" EXCESS WIRE (COILED) AT EYE BOLT AND VALVE BOX (TYPICAL).
 - CAST IN PLACE CONCRETE SIDEWALK - BRICKWORK SHALL NOT EXTEND TO SURFACE. ACCESS DOOR FRAME SHALL REST ON SIDEWALK.
 - VALVE LOCK (FURNISHED BY CLTW) - LOCK VALVE CLOSED.
 - PLASTIC STEP - 12" O.C. VERTICAL SPACING.
 - ATTACH ENGRAVED LABEL, WITH PREMISE NUMBER, TO UNDERSIDE OF DOOR, NEAR THE LIFTING HANDLE.
 - CONCRETE THRUST BLOCKING - 3,600 PSI.