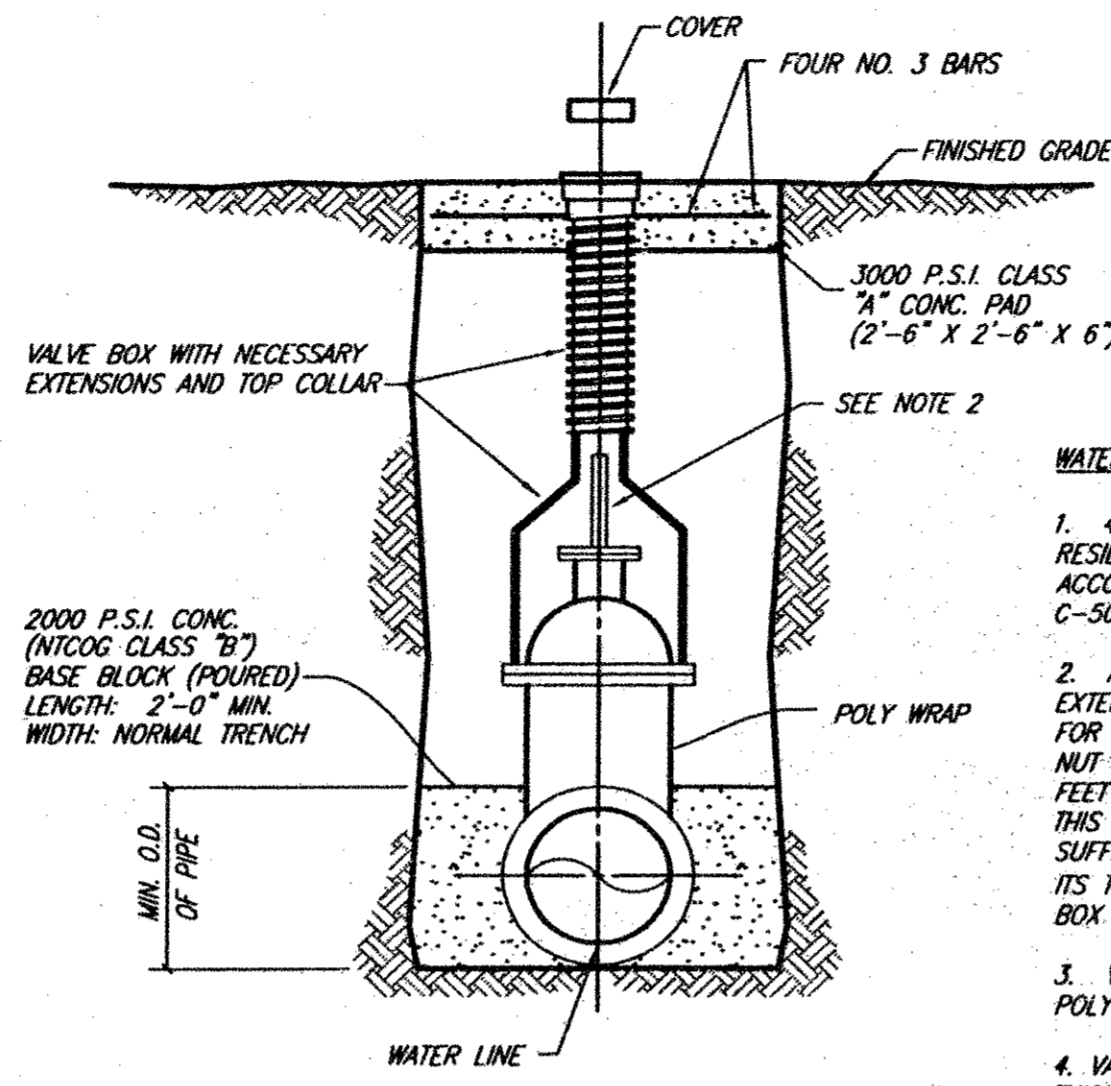


GENERAL NOTES

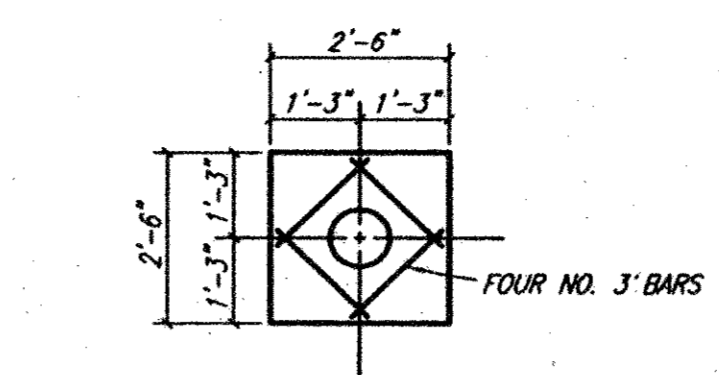
(NOTES APPLY TO ALL SHEETS)

- REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATION OF ALL KNOWN UNDERGROUND UTILITIES AND SERVICE LINES. HOWEVER, THE OWNER ASSUMES NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL EXISTING SUBSURFACE OR SURFACE UTILITIES OR UTILITY LINES, OR TO SHOW THEM IN THEIR EXACT LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, SERVICE LINES OR THE LIKE, WHICH ARE CROSSED OR EXPOSED BY THE CONSTRUCTION OPERATION.
- CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION
A. ONCOR (TXU)
B. VERIZON
C. CABLE TELEPHONE
D. T.C.I. CABLE TV
- ALL PAVEMENT SHALL BE SAWCUT FOR TRENCHES. SAWCUTS SHALL BE FULL DEPTH.
- ALL CONCRETE PAVEMENT (ROADWAYS, CURB & CUTTERS, DRIVES, AND SIDEWALKS, ETC.) SHALL BE FULL DEPTH SAWCUT 18 INCH LONG NO. 4 DOWELS SHALL BE DRILLED INTO EXISTING PAVEMENT. CONTRACTOR SHALL UTILIZE A DRILLING BIT TO DRILL HOLES FOR DOWEL BARS. CONTRACTOR SHALL UTILIZE PROPER BITS AND PRESSURE, AS NOT TO DAMAGE EXISTING CONCRETE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGED PAVEMENT AND REPAIR AT HIS OWN COST.
- THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND SPRINKLER SYSTEMS. ALL DAMAGES CAUSED BY CONSTRUCTION SHALL BE REPAIRED BY AN IRRIGATOR LICENSED IN THE STATE OF TEXAS. IRRIGATION REPAIR SHALL OCCUR WITHIN 48 HOURS OF DAMAGE OR AS PIPE LAYING TRAIN PASSES AFFECTED AREA. ALL COST SHALL BORNE BY THE CONTRACTOR. SEE SPECIFICATIONS.
- CONTRACTOR SHALL HAVE UTILITY COMPANIES SUPPORT AND PROTECT OR RELOCATE THEIR UTILITY POLES, GUY WIRES OR CABLE AND/OR LIGHT POLES IN WORK AREA. COST SHALL BE SUBSIDIARY TO THE CONTRACT.
- ALL ROADWAYS/ DRIVEWAYS, ETC. SHALL REMAIN OPEN DURING CONSTRUCTION. AT LEAST ONE WAY TRAFFIC (USING A FLAGMAN OR OTHER MEANS) SHALL BE AVAILABLE DURING WORKING HOURS. AFTER HOURS, TWO WAY TRAFFIC MUST BE MAINTAINED.
- THE CONTRACTOR SHALL REPLACE ALL SHRUBS, PLANTS, TREES, ETC. THAT ARE REMOVED FOR THE CONVENIENCE OF CONSTRUCTION AT HIS EXPENSE. NEW SHRUBS, PLANTS, TREES, ETC. SHALL BE EQUAL TO OR BETTER THAN EXISTING ONES OR MEET THE NEEDS OF THE PROPERTY OWNER.
- THE CONTRACTOR SHALL RESTORE ALL EXISTING LANDSCAPING AND VEGETATION ALONG THE CONSTRUCTION ROUTE TO ITS ORIGINAL CONDITION AFTER COMPLETION OF CONSTRUCTION.
- ALL WATER VALVES SHALL BE RESILIENT SEATED WEDGE GATE VALVES.
- EXISTING FIRE HYDRANTS, VALVES AND VALVE STACKS CALLED OUT IN PLANS TO BE REMOVED SHALL BE DELIVERED TO TOWN'S SERVICE CENTER BY THE CONTRACTOR.
- ALL CHANGES OF DIRECTION OF THE PROPOSED WATER LINE SHALL BE MARKED ON THE SURFACE. PAVEMENT SHALL BE MARKED WITH PERMANENT MARKERS MANUFACTURED BY D.A.S. MANUFACTURING, INC. OF VALRICO, FLORIDA (813-681-6024). THE MARKER SHALL BE BLUE WITH THE WORD "WATER" AND AN ARROW(S) FOR THE DIRECTION(S) OF THE LINE.
- ALL WATER SERVICES SHALL INCLUDE AN U.S.C. APPROVED DOUBLE CHECK VALVE ASSEMBLY UPSTREAM OF METER. EACH SHALL BE SET IN ITS OWN VALVE OR METER BOX.
- ALL GRASS DISTURBED ALONG PROJECT SHALL BE REPLACED WITH SOLID SOD PLACED END TO END. CONTRACTOR SHALL WATER SOD TWICE A DAY FOR A PERIOD OF SIX WEEKS. WATERING SHALL BE ACCOMPLISHED BY USE OF A WATER TRUCK.
- ALL EXISTING AND NEW FIRE HYDRANTS NOT ACTIVE SHALL HAVE OUT OF SERVICE MARKERS PLACED ON TWO NOZZLES. MARKERS SHALL BE FROM HYDRA-SHIELD MANUFACTURING 1-800-676-0911 OR EQUAL. THE COLOR SHALL BE RED.
- FINAL LOCATION OF WATER METER SHALL BE DETERMINED IN THE FIELD BY THE TOWN OF ADDISON.
- ALL PAVEMENT CUTS SHALL BE COMPLETED UTILIZING FULL DEPTH SAW CUT. PROPOSED CONCRETE PAVEMENT SHALL BE DOWELED INTO EXIST. CONCRETE PAVEMENT (SEE LONGITUDINAL BUTT JOINT DETAIL).
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE DRIVE WAY OPEN TO ALL RESIDENTS AND BUSINESSES DURING CONSTRUCTION. DRIVEWAYS THAT ARE CLOSED FOR CONSTRUCTION SHALL BE DONE BETWEEN THE HOURS OF 9 AM AND 4 PM. ALL DRIVEWAYS CLOSED FOR CONSTRUCTION SHALL BE OPENED BY PLACEMENT OF STEEL PLATES OR BACKFILLED WITH ALL WEATHER SURFACE IMMEDIATELY AFTER WATER LINE IS CONSTRUCTED.
- MARSH LANE NORTHBOUND SHALL BE OPEN TO TRAFFIC AT ALL TIMES. WITHIN THE CONSTRUCTION ZONE THE CONTRACTOR MAY CLOSE DOWN MARSH LANE TO ONE LANE OF TRAFFIC FROM 7 AM TO 3 PM. AT ALL OTHER TIMES A MINIMUM OF TWO LANES OF TRAFFIC SHALL BE MAINTAINED. CONTRACTOR SHALL SUBMIT BARRICADE AND PHASING PLAN FOR TOWN'S REVIEW AND APPROVAL A MINIMUM OF 10 DAYS PRIOR TO ROAD CLOSURES. (SEE SPECIFICATIONS)
- CONTRACTOR SHALL PLACE 1-1/2 INCH HMAC OVERLAY ON APARTMENT COMPLEX PARKING LOT AS SHOWN. AREAS OUTSIDE OF DESIGNATED AREAS DAMAGED BY CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT CONTRACTOR'S EXPENSE.
- COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.
- HMAC OVERLAY SHALL BE A MINIMUM 1-1/2 INCH COMPACTED IN PLACE AND ALLOW FOR POSITIVE DRAINAGE. EXISTING SURFACE SHALL RECEIVE A TACK COAT PRIOR TO OVERLAY.
- EXISTING WATER LINE SHALL REMAIN IN SERVICE UNTIL PROPOSED MAIN IS ACCEPTED BY TOWN OF ADDISON.



VALVE SETTING & BOX

NO SCALE

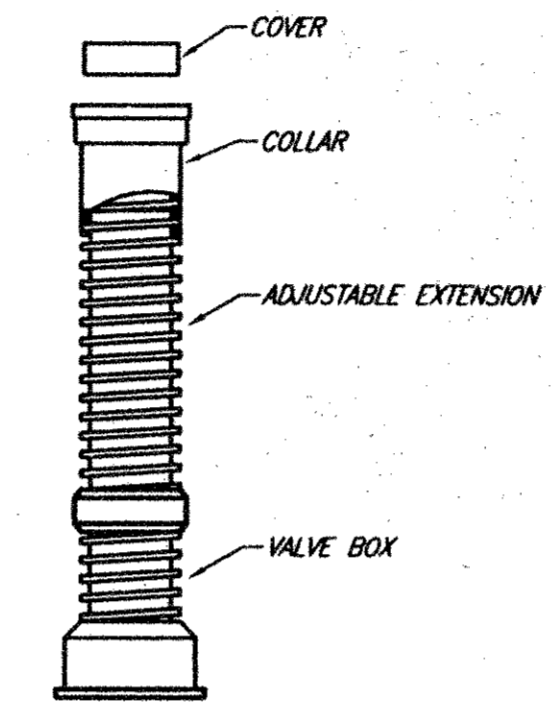


VALVE BOX PAD PLAN

NO SCALE

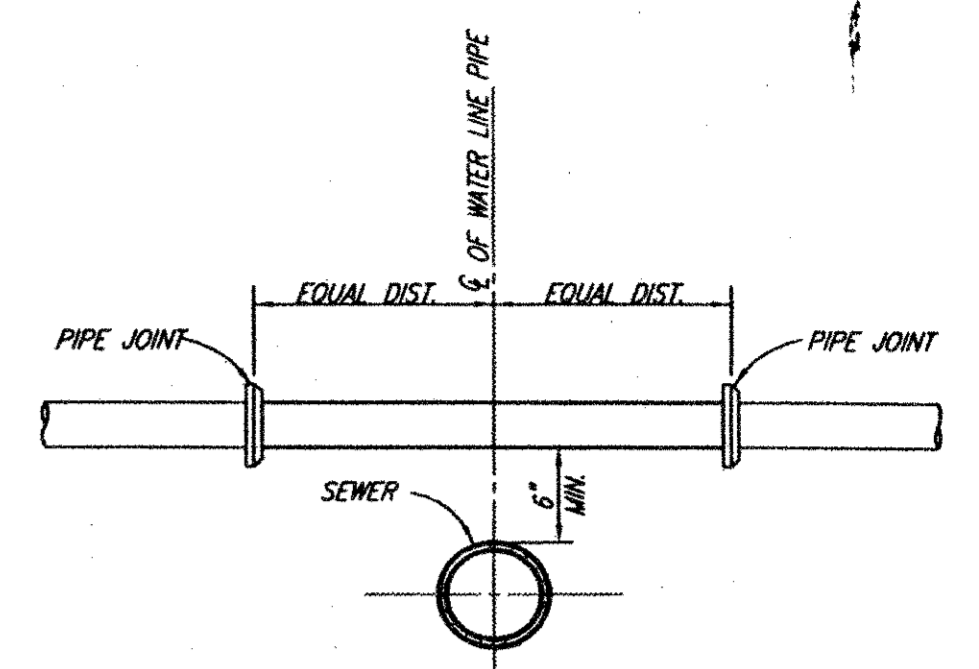
WATER VALVE NOTES:

- 4" TO 12" GATE VALVE SHALL BE RESILIENT SEATED WEDGE GATE VALVES ACCORDANCE WITH ANWA STANDARD C-509.
- A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHOSE OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4" OF THE VALVE BOX COVER.
- VALVE SHALL BE WRAPPED IN POLY WRAP.
- VALVE PAD SHALL BE 6 INCHES THICK AND BE 3000 PSI CONCRETE.



VALVE BOX WITH EXTENSION

NO SCALE



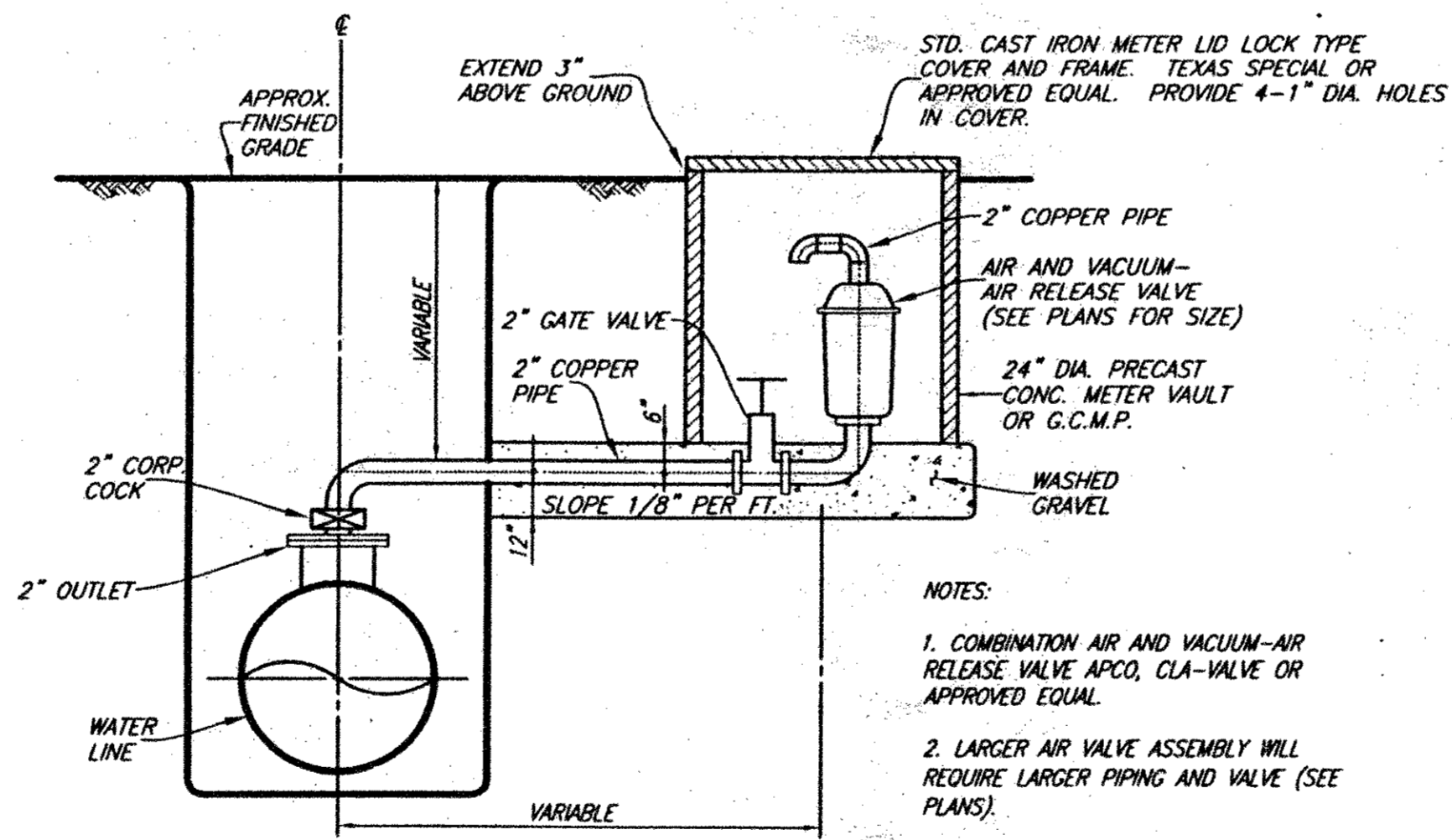
TYPICAL WATER/SEWER CROSSING

NO SCALE

WATER LINE PHASING

(NOTES APPLY TO ALL SHEETS)

- CONTRACTOR SHALL CONSTRUCT WATER LINE FROM STATION 0+00 TO STATION 16+17.
- CONTRACTOR SHALL TEST LINE AND HAVE ACCEPTED BY TOWN OF ADDISON.
- CONTRACTOR SHALL MAKE SERVICE CONNECTIONS.
- CONTRACTOR SHALL CONSTRUCT WATER LINE FROM 16+17 TO END OF PROJECT.
- CONTRACTOR SHALL TEST WATER LINE STARTING FROM 16+17 TO END OF LINE AND HAVE ACCEPTED BY TOWN OF ADDISON.
- CONTRACTOR SHALL MAKE REMAINING SERVICE CONNECTIONS.



AIR AND VACUUM - AIR RELEASE VALVE INSTALLATION

(AIR VALVE)

NOTES:

- COMBINATION AIR AND VACUUM-AIR RELEASE VALVE APCO, CLA-VALVE OR APPROVED EQUAL.
- LARGER AIR VALVE ASSEMBLY WILL REQUIRE LARGER PIPING AND VALVE (SEE PLANS).

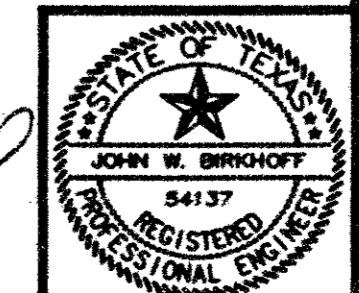
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TOWN OF ADDISON, TEXAS

MARSH LANE WATER LINE

GENERAL NOTES & DETAILS

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas



THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION AND PERMIT PURPOSES.
John W. Birkhoff
DATE: 4/22/02

DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 6
DRAWN BY: S.J. & F.	DATE: APRIL 2002	OF 8 SHEETS

04/17/02 R.L. 99123MWB.DWG BLOCKS: ABBRE-2, W.-SSX, YARDV, WMANHOLE