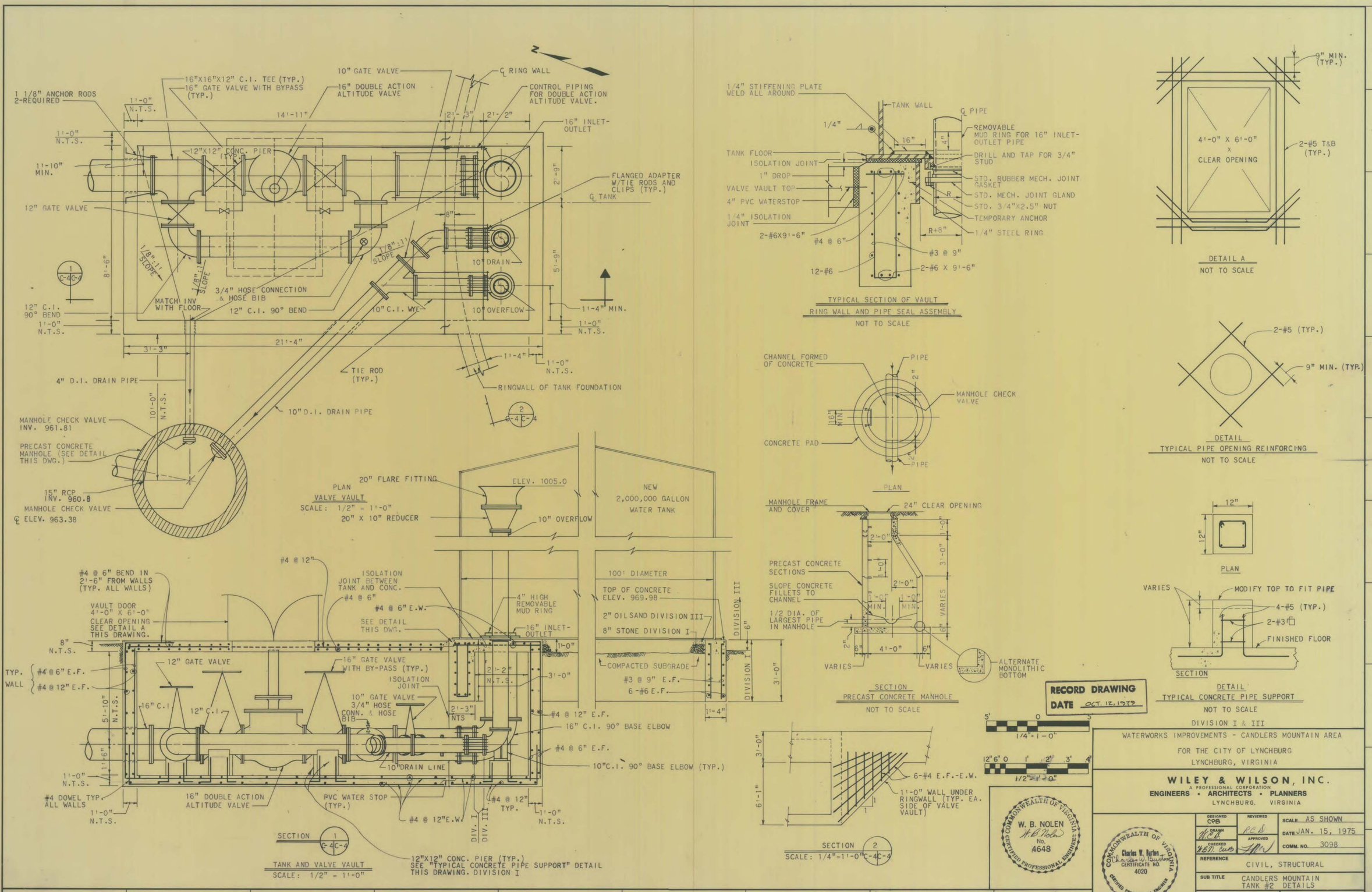
1 1/8" ANCHOR RODS 2-REQUIRED
16"X16"X12" C.I. TEE (TYP.)
16" GATE VALVE WITH BYPASS (TYP.)
10" GATE VALVE
16" DOUBLE ACTION ALTITUDE VALVE
℄ RING WALL
CONTROL PIPING FOR DOUBLE ACTION ALTITUDE VALVE.
16" INLET-OUTLET
12"X12" CONC. PIER (TYP.)
FLANGED ADAPTER W/TIE RODS AND CLIPS (TYP.)
℄ TANK
12" GATE VALVE
10" DRAIN
3/4" HOSE CONNECTION & HOSE BIB
MATCH INV WITH FLOOR
12" C.I. 90° BEND
10" C.I. WYE
10" OVERFLOW
12" C.I. 90° BEND
1'-4" MIN.
TIE ROD (TYP.)
RINGWALL OF TANK FOUNDATION
4" D.I. DRAIN PIPE
10" D.I. DRAIN PIPE
MANHOLE CHECK VALVE INV. 961.81
PRECAST CONCRETE MANHOLE (SEE DETAIL THIS DWG.)
15" RCP INV. 960.8
MANHOLE CHECK VALVE
℄ ELEV. 963.38
PLAN
VALVE VAULT
SCALE: 1/2" = 1'-0"
20" FLARE FITTING
20" X 10" REDUCER
10" OVERFLOW
ELEV. 1005.0
NEW 2,000,000 GALLON WATER TANK
100' DIAMETER
TOP OF CONCRETE ELEV. 969.98
2" OILSAND DIVISION III
8" STONE DIVISION I
COMPACTED SUBGRADE
#3 @ 9" E.F.
6-#6 E.F.
DIVISION III
DIVISION I
#4 @ 6" BEND IN 2'-6" FROM WALLS (TYP. ALL WALLS)
VAULT DOOR 4'-0" X 6'-0" CLEAR OPENING SEE DETAIL A THIS DRAWING.
ISOLATION JOINT BETWEEN TANK AND CONC.
#4 @ 6"
#4 @ 6" E.W.
SEE DETAIL THIS DWG.
4" HIGH REMOVABLE MUD RING
16" INLET-OUTLET
TYP. WALL #4 @ 6" E.F. #4 @ 12" E.F.
12" GATE VALVE
16" GATE VALVE WITH BY-PASS (TYP.)
ISOLATION JOINT
10" GATE VALVE
3/4" HOSE CONN. & HOSE BIB
16" C.I.
12" C.I.
#4 @ 12" E.F.
16" C.I. 90° BASE ELBOW
#4 @ 6" E.F.
10"DRAIN LINE
10"C.I. 90° BASE ELBOW (TYP.)
#4 DOWEL TYP. ALL WALLS
16" DOUBLE ACTION ALTITUDE VALVE
PVC WATER STOP (TYP.)
#4 @ 12"E.W.
#4 @ 12" TYP.
12"X12" CONC. PIER (TYP.) SEE "TYPICAL CONCRETE PIPE SUPPORT" DETAIL THIS DRAWING. DIVISION I
SECTION 1 C-4C-4
TANK AND VALVE VAULT
SCALE: 1/2" = 1'-0"
1/4" STIFFENING PLATE WELD ALL AROUND
TANK WALL
℄ PIPE
REMOVABLE MUD RING FOR 16" INLET-OUTLET PIPE
DRILL AND TAP FOR 3/4" STUD
STD. RUBBER MECH. JOINT GASKET
STD. MECH. JOINT GLAND
STD. 3/4"X2.5" NUT
TEMPORARY ANCHOR
1/4" STEEL RING
TANK FLOOR
ISOLATION JOINT
1" DROP
VALVE VAULT TOP
4" PVC WATERSTOP
1/4" ISOLATION JOINT
2-#6X9'-6"
#4 @ 6"
#3 @ 9"
2-#6 X 9'-6"
12-#6
TYPICAL SECTION OF VAULT
RING WALL AND PIPE SEAL ASSEMBLY
NOT TO SCALE
CHANNEL FORMED OF CONCRETE
PIPE
MANHOLE CHECK VALVE
CONCRETE PAD
PLAN
MANHOLE FRAME AND COVER
24" CLEAR OPENING
PRECAST CONCRETE SECTIONS
SLOPE CONCRETE FILLETS TO CHANNEL
1/2 DIA. OF LARGEST PIPE IN MANHOLE
VARIES
ALTERNATE MONOLITHIC BOTTOM
SECTION
PRECAST CONCRETE MANHOLE
NOT TO SCALE
6-#4 E.F.-E.W.
11'-0" WALL UNDER RINGWALL (TYP. EA. SIDE OF VALVE VAULT)
SECTION 2 C-4C-4
SCALE: 1/4"=1'-0"
9" MIN. (TYP.)
4'-0" X 6'-0" x CLEAR OPENING
2-#5 T&B (TYP.)
DETAIL A
NOT TO SCALE
2-#5 (TYP.)
9" MIN. (TYP.)
DETAIL
TYPICAL PIPE OPENING REINFORCING
NOT TO SCALE
PLAN
SECTION
MODIFY TOP TO FIT PIPE
4-#5 (TYP.)
2-#3
FINISHED FLOOR
DETAIL
TYPICAL CONCRETE PIPE SUPPORT
NOT TO SCALE
DIVISION I & III
RECORD DRAWING
DATE OCT. 12, 1979
1/4"=1'-0"
1/2"=1'-0"
WATERWORKS IMPROVEMENTS - CANDLERS MOUNTAIN AREA
FOR THE CITY OF LYNCHBURG
LYNCHBURG, VIRGINIA
WILEY & WILSON, INC.
A PROFESSIONAL CORPORATION
ENGINEERS • ARCHITECTS • PLANNERS
LYNCHBURG, VIRGINIA
COMMONWEALTH OF VIRGINIA
W. B. NOLEN
No. 4648
CERTIFIED PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA
Charles W. Burton
CERTIFICATE NO. 4020
CERTIFIED PROFESSIONAL ENGINEER
DESIGNED CGB
REVIEWED RCD
DRAWN
APPROVED
CHECKED
SCALE AS SHOWN
DATE JAN. 15, 1975
COMM. NO. 3098
REFERENCE CIVIL, STRUCTURAL
SUB TITLE CANDLERS MOUNTAIN TANK #2 DETAILS
PERMANENT FILE NO. 75-186
DWG. C-4 OF 17
SHEET 4 OF 24
RING WALL & VALVE VAULT REVISED 11/19/76
REVISIONS
A B C D E F G H I J
76043-W