OFFSITE WATER SYSTEM DISTRIBUTION - PHASE 2

12" WATER LINE
PRESSURE REDUCING STATION
AND METER VAULT

DRAWING NUMBER	SHEET TITLE
C40099CA	TITLE SHEET
C40099CB	VICINITY MAP
C40099CC	UTILITY GENERAL NOTES & DETAILS
C40099CD	SITE UTILITY PLAN AND PROFILE SOUTH
C40099CE	SITE UTILITY PLAN AND PROFILE NORTH
C40099CF	BACKFLOW PREVENTER PLAN
C40099CG	MISCELLANEUOUS DETAILS

REV. NO.	REVISION DESCRIPTION	APPROVED	DATE	AS BUILT DATE
△				

PLANS APPROVED BY:

DEPARTMENT	BY	DATE
FACILITIES PLANNING		
ARCHITECTURAL DESIGNER		
MECHANICAL DESIGNER		
ELECTRICAL DESIGNER		
MECHANICAL ENGINEER		
ELECTRICAL ENGINEER		
INDUSTRIAL ENGINEER		
PROJECT COORDINATOR		
EQUIPMENT ENGINEER		
PROCESS ENGINEER		
SAFETY ENGINEER		
AREA OWNER		

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QA/ETY	
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OFFSITE WATER SYSTEM DISTRIBUTION - PHASE 2 CIVIL TITLE SHEET

JOB NO.	FILE NAME	DRAWING NO.
	C40099CA	C40099CA
OLD DWG NO.	PLOT SCALE	DRAWING SCALE
	1 = 1	NONE

SHEET 1 OF 17

B-6

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NORTH

SCALE: 1" = 50'

REV. NO.	REVISION DESCRIPTION	APPROVED	DATE	RECORD DRAWING

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ENGINEER	
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OFFSITE WATER SYSTEM DISTRIBUTION - PHASE 2

VICINITY MAP CIVIL

FWR NO.	FILE NAME	DRAWING NO.	
	C40099CB	C40099CB	
OLD DWG NO.	PLOT SCALE	DRAWING SCALE	SHEET OF
	1=50	1"=50'	X X

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GENERAL NOTES:

A ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE REFERENCED STANDARDS.

B UTILITY CONTRACTOR SHALL COORDINATE ALL PIPELINE WORK WITH OTHER CONTRACTORS, SUBCONTRACTORS AND INTEL. ALL WORK SHALL BE ACCOMPLISHED IN THE MOST PROFESSIONAL AND WORKMANLIKE MANNER, AND SHALL BE PROVIDED IN ACCORDANCE WITH ALL SITE SAFETY REQUIREMENTS AS DESIGNATED BY INTEL.

C WHEN COORDINATES ARE SHOWN HEREIN, THEY SHALL REFER TO THE INTEL SITE INTERNAL COORDINATE SYSTEM. ALL BEARINGS, IF SHOWN, ARE ALSO BASED ON INTEL SITE COORDINATES.

D ALL 16" POTABLE WATER (CW) LINES SHALL BE CONSTRUCTED OF PRESSURE CLASS 250 DUCTILE IRON PIPE; ALL 12" POTABLE WATER (CW) LINES SHALL BE CONSTRUCTED OF PRESSURE CLASS 350 DUCTILE IRON PIPE.

E ALL JOINTS FOR ALL WATER LINES SHALL BE RESTRAINED JOINTS. JOINTS SHALL BE "MEGALUG" OR SUR-GRIP BY JMC CORP.

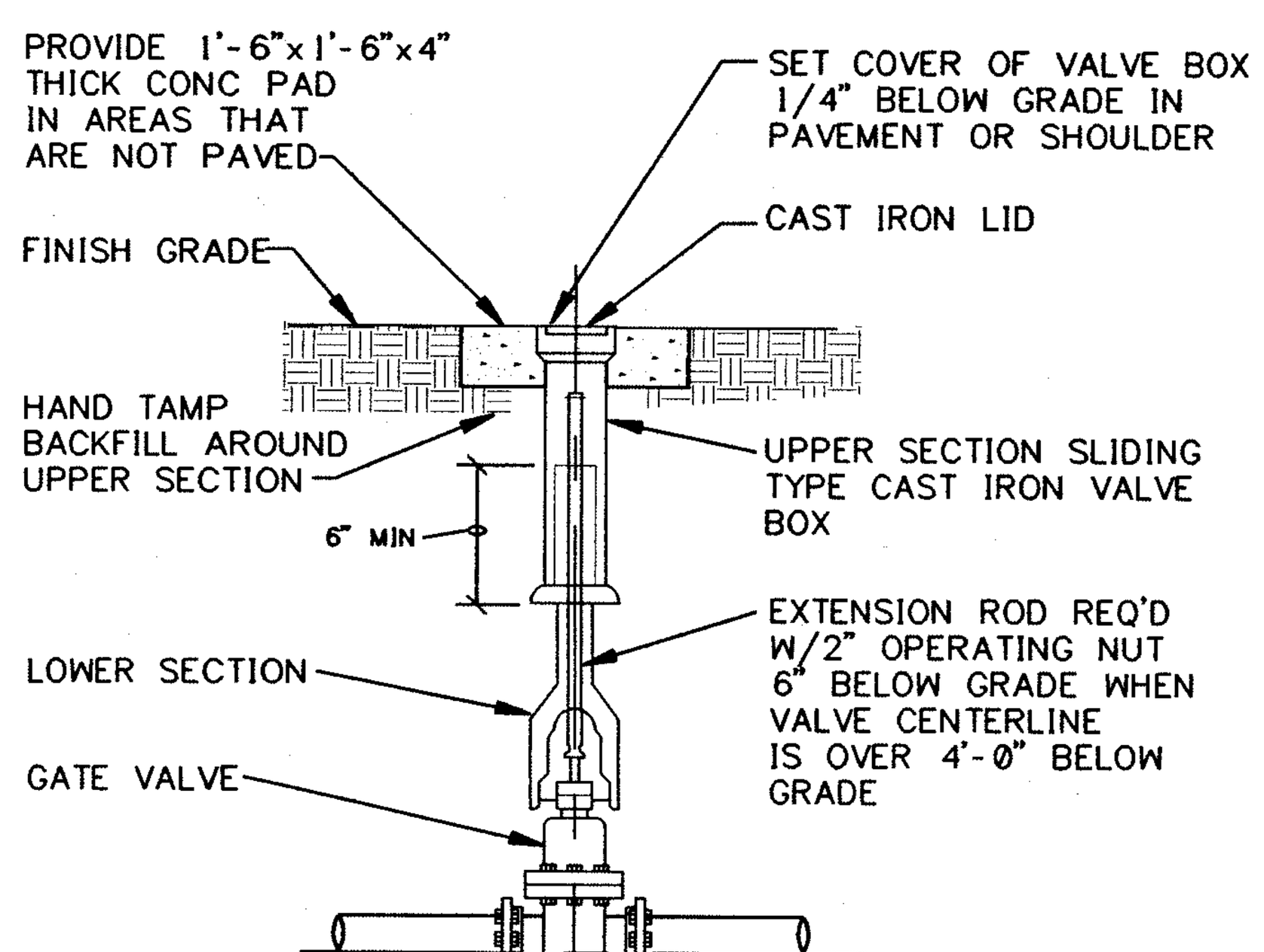
F ALL VALVES AND VALVE BOXES FOR LINE VALVES FOR THE COLD WATER LINES HAVE BEEN LOCATED ON THE PLANS. HOWEVER, LOCATIONS MAY BE RELOCATED OR ADJUSTED DURING CONSTRUCTION AT THE DIRECTION OF INTEL.

G VERTICAL DEPTHS OF COVER FOR ALL PRESSURE PIPELINES SHALL BE FOLLOWED EXCEPT IN CASES OF CONFLICT. THE MINIMUM COVER DEPTHS BETWEEN GROUND AND TOP OF PIPE IS 4 FEET FOR COLD WATER LINES.

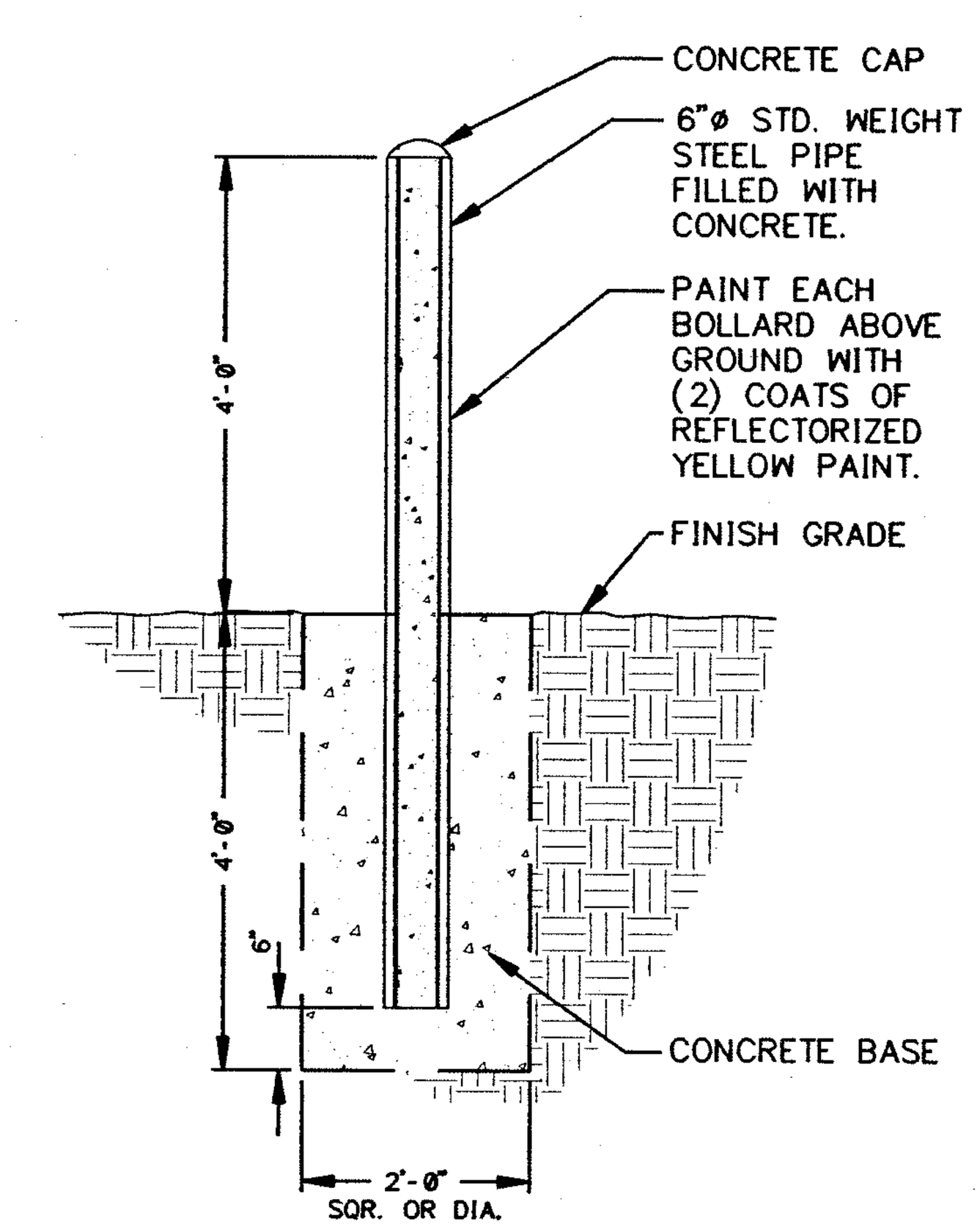
H ALL SITE WORK WILL REQUIRE A CIPP (CONSTRUCTION INCIDENT PREVENTION PLAN) AND INTEL SITE EXCAVATION PERMIT PRIOR TO EXCAVTION. CIPP MUST BE TURNED IN 24 HOURS PRIOR TO STARTING WORK WITH REQUIRED SIGNITURES. CIPP'S ARE GOOD FOR ONE WEEK AND THEN MUST BE RENEWED AND UPDATED.

ABBREVIATIONS:

SAN	= SANITARY SEWER
SS	= STORM SEWER
CW	= COLD WATER
ICW	= INDUSTRIAL COLD WATER
FL	= FIRE LINES
IRR	= IRRIGATION LINES
NG	= NATURAL GAS
ELEC	= ELECTRICAL
TELE	= TELECOMMUNICATIONS
LSS	= LIFE SAFETY
MH	= MANHOLE
BFV	= BUTTERFLY VALVE
PIV	= POST INDICATOR VALVE
SAN FMS	= SANITARY SEWER FORCE MAINS
EMD	= ELECTRONIC MARKER DISK

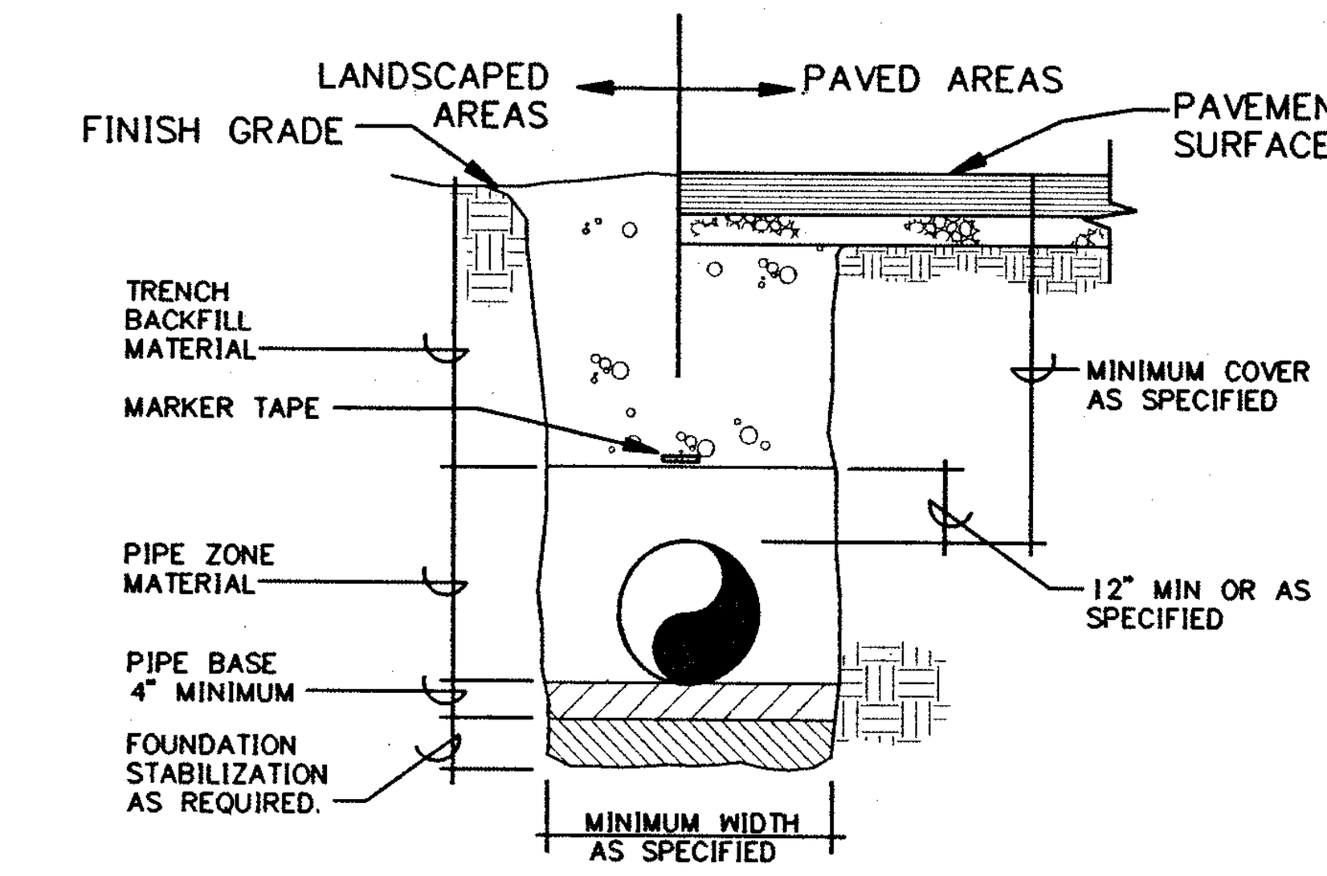


A/CC **VALVE BOX DETAIL**
NTS

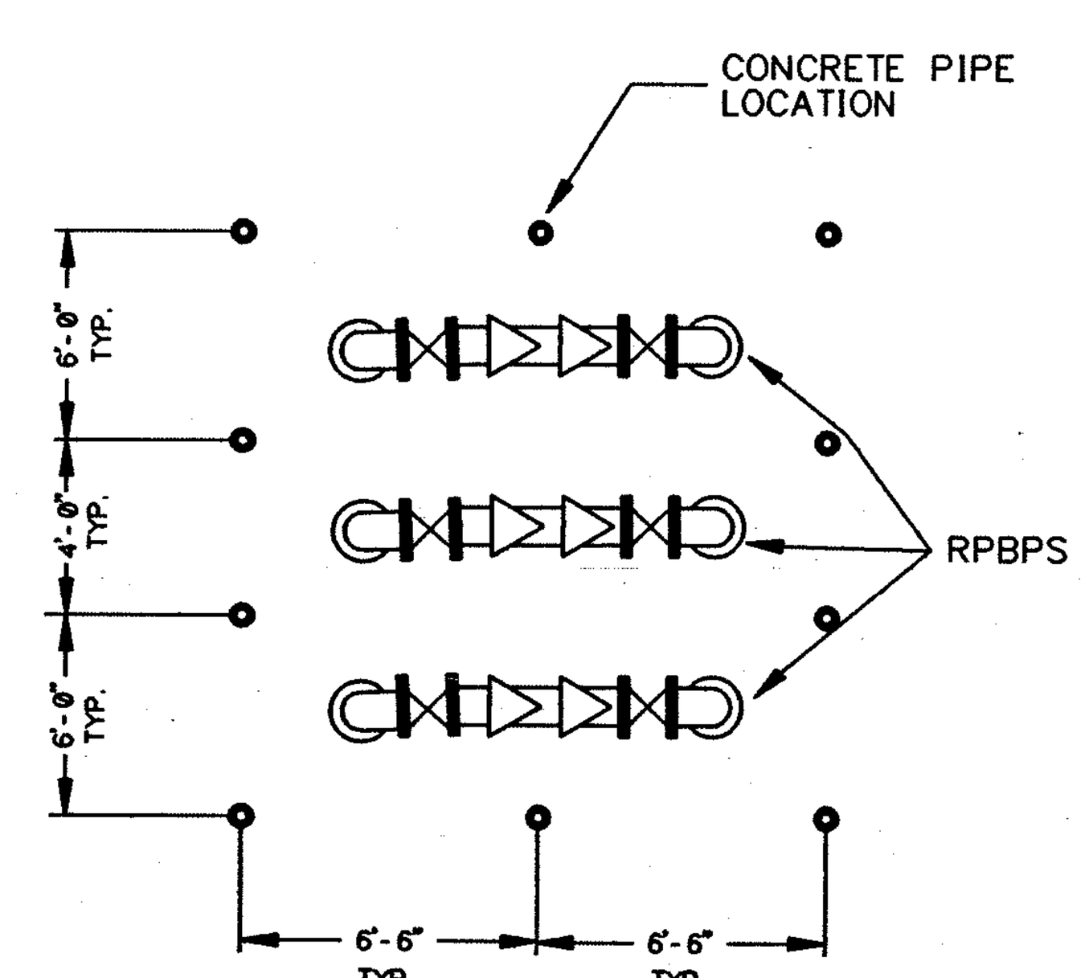


NOTE: LOCATE BOLLARDS AS SHOWN IN DETAIL D THIS SHEET

B/CC **CONCRETE PIPE BOLLARD**
NTS



C/CC **TYPICAL TRENCH**
NTS



D/CC **BOLLARD LOCATION**
NTS

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OFFSITE WATER SYSTEM DISTRIBUTION - PHASE 2

UTILITY GENERAL NOTES & DETAILS

FNR NO.	FILE NAME	DRAWING NO.		
	C40099CC	C40099CC		
OLD DWG NO.	PLOT SCALE	DRAWING SCALE	SHEET	OF
	1 = 1	NTS	3	7

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PROFILE SCALES:
HORIZ. : 1"=40'
VERT. : 1"=5'

NORTH

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OFFSITE WATER SYSTEM

DISTRIBUTION - PHASE 2
PLAN AND PROFILE
CIVIL

THIS NO.	FILE NAME C40199CD	DRAWING NO.	C40199CD
OLD DWG NO.	PLOT SCALE 1=40	DRAWING SCALE 1"=40'	SHEET 4 OF 7

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PROFILE SCALES:
HORIZ. : 1"=40'
VERT. : 1"=5'

NORTH

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EQT CODE	

OFFSITE WATER SYSTEM

DISTRIBUTION - PHASE 2
PLAN AND PROFILE
CIVIL

FWR NO.	FILE NAME	DRAWING NO.	
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OLD DWG NO.	PLOT SCALE	DRAWING SCALE	SHEET OF
	1=40	1"=40'	5 7

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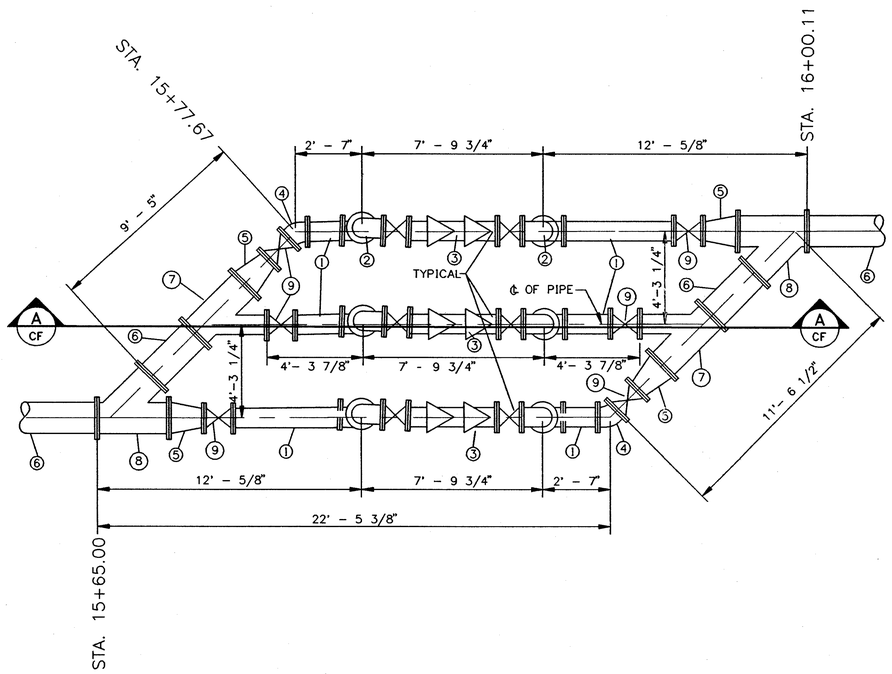
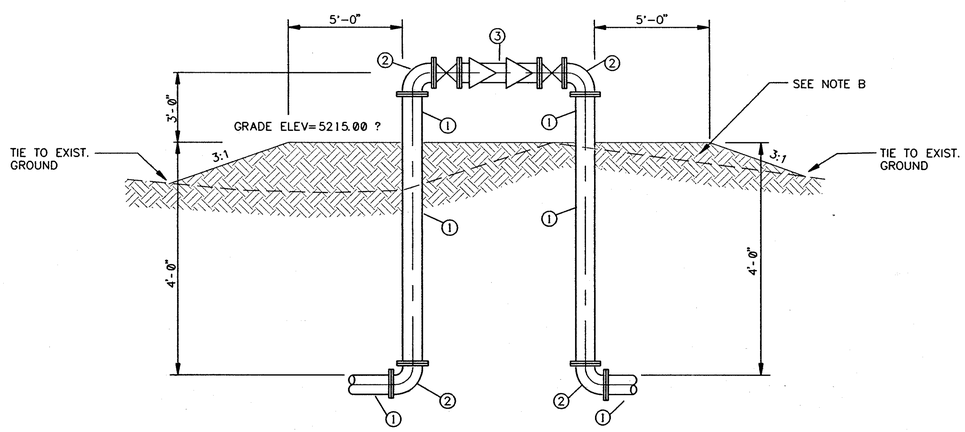


NORTH

A/CF **PLAN**
NTS



A/CF **SECTION**
NTS

SCHEDULE OF PIPING & EQUIPMENT

1. 10" MORTAR LINED DUCTILE IRON PIPE (DIP) SPOOL FLANGED
2. 10" FLANGED DIP 90° BEND
3. 10" REDUCED PRESSURE BACKFLOW PREVENTER AMES 4000RP-10" PROVIDED BY INTEL CORP.
4. 10" DIP FLANGED 45° BEND
5. 18" x 10" DIP FLANGED REDUCER
6. 18" DIP SPOOL FLANGED
7. 18" X 10" DIP FLANGED WYE
8. 18" X 18" DIP FLANGED WYE
9. 10" FLANGED GATE VALVE

GENERAL NOTES:

A ALL UNDERGROUND FLANGED PIPING SHALL USE CADMIUM PLATED BOLTS FOR CONNECTION.

B GRADE TO ELEVATION AND SLOPE SHOWN ON PLANS. COMPACT TO A DENSITY OF NOT LESS THAN 85% OF MAXIMUM DENSITY, AS DETERMINED BY ASTM D 1557.

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OFFSITE WATER SYSTEM DISTRIBUTION - PHASE 2

BACKFLOW PREVENTER PLAN - CIVIL

PWR NO.	FILE NAME	DRAWING NO.
	C40099CF	C40099CF
OLD DWG NO.	PLOT SCALE	DRAWING SCALE / SHEET OF
	1 = 32	AS NOTED / 6 7

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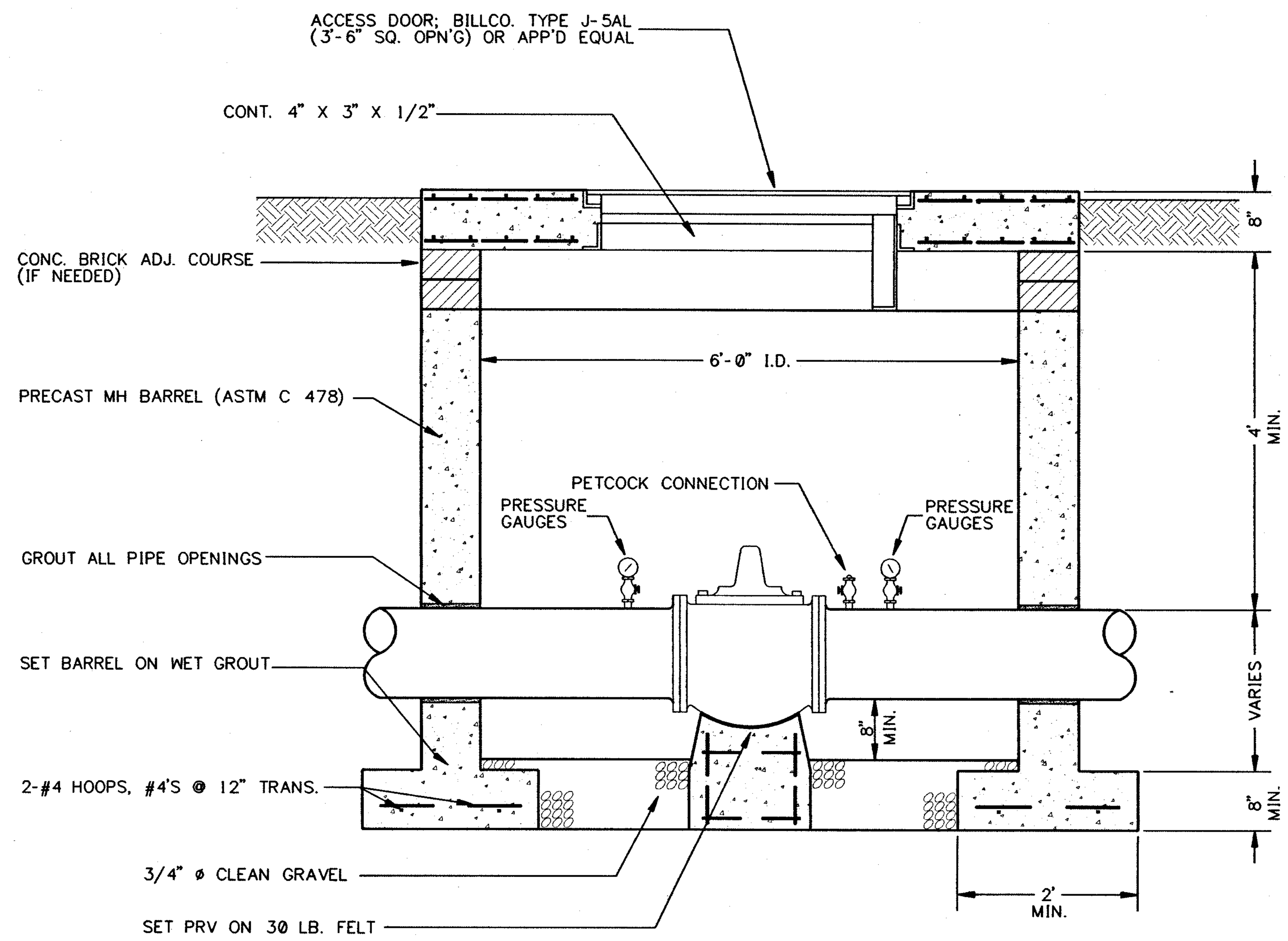
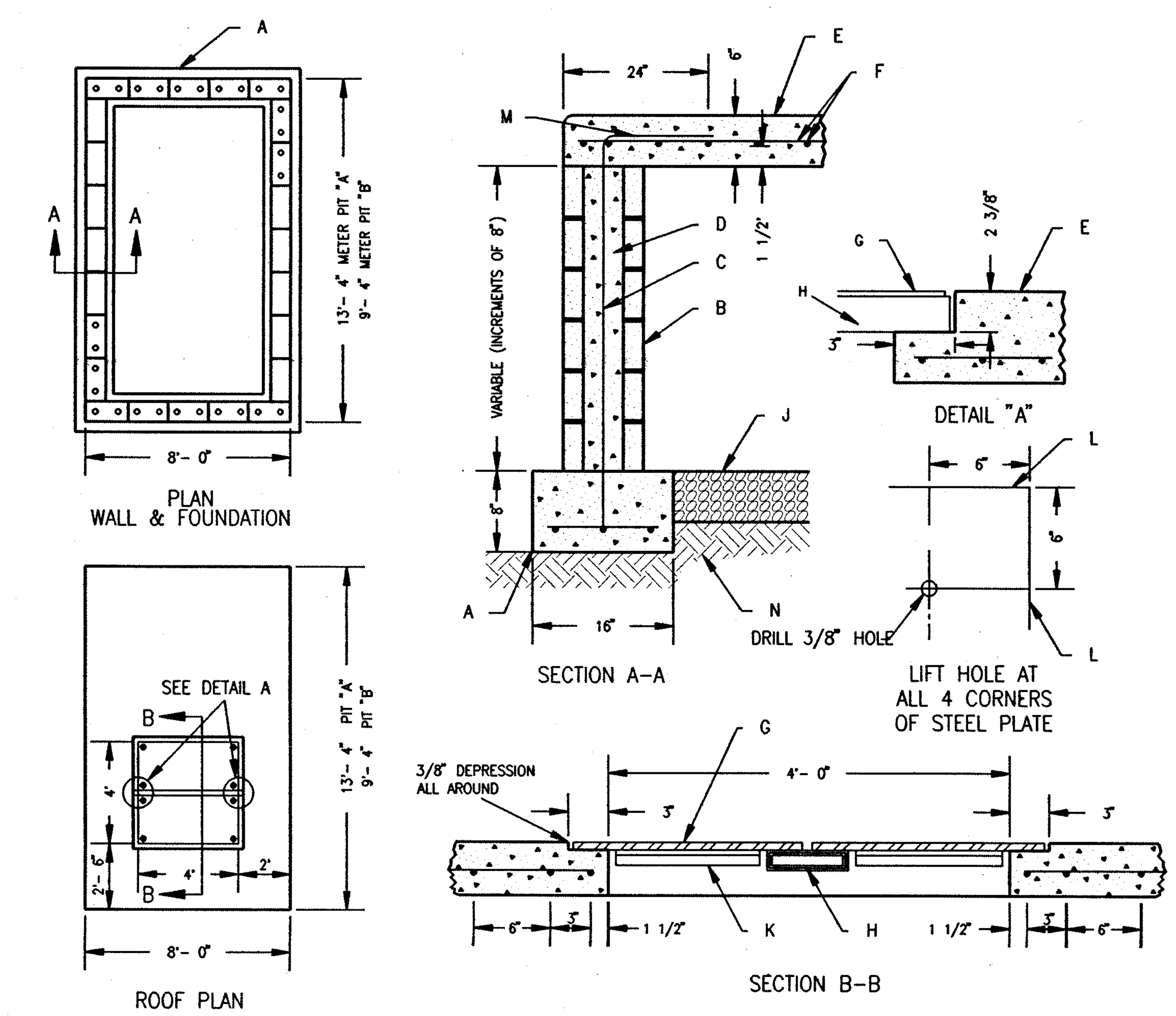


A/CC **WATER PRESSURE REDUCING STATION**
NTS



C/CC **VALVE PIT**
NTS

GENERAL NOTES:

1. THESE METER PITS WILL ONLY BE INSTALLED IN SIDEWALK AREAS OR NON-VEHICULAR AREA EASEMENTS.
2. ALL EXPOSED STEEL WILL BE PAINTED WITH ONE SHOP COAT AND TWO FINISH COATS OF ALUMINUM PAINT (AASHTO M 69).
3. STEEL PLATE WILL HAVE A CHECKERED, NON-SKID PATTERN.
4. COMPRESSIVE STRENGTH FOR ALL CONCRETE SHALL BE 3000 PSI.

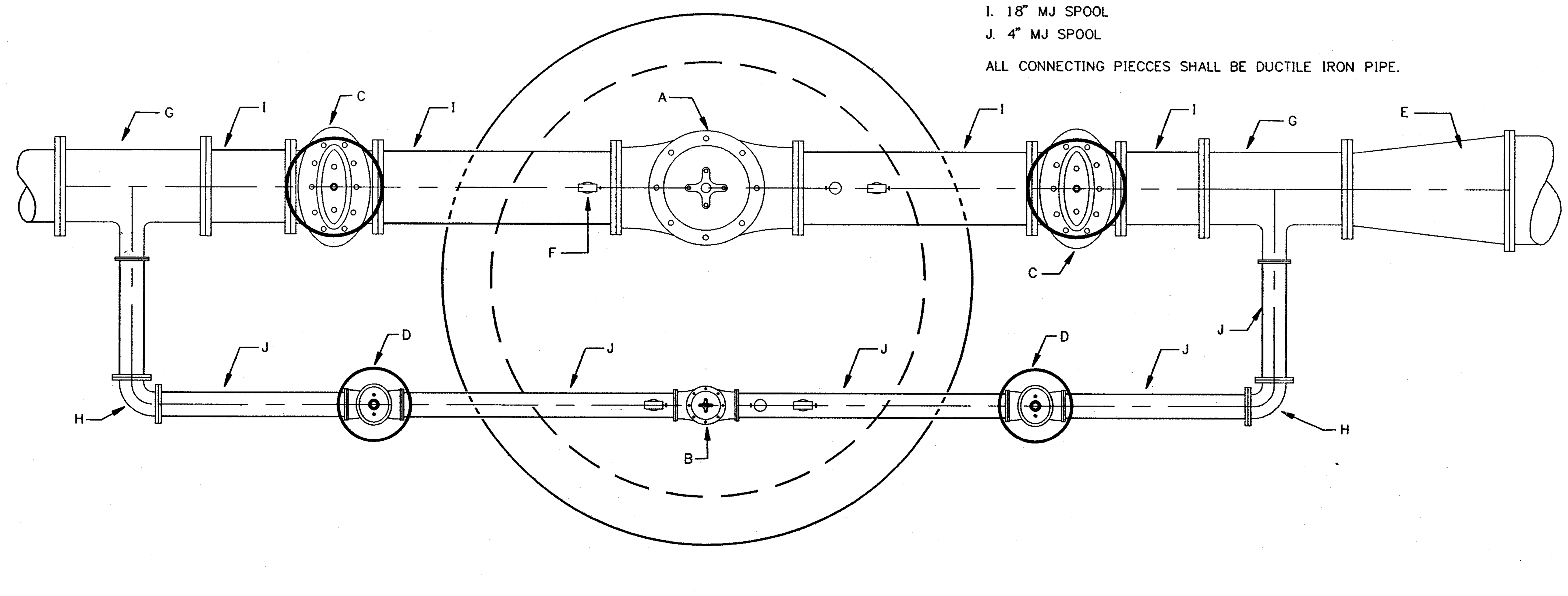
CONSTRUCTION NOTES:

A. WALL FOUNDATION.
B. 8" X 16" X 8" HOLLOW CORE CONCRETE BLOCK.
C. NO. 4 REBAR. INSERTED IN CORES OF EACH BLOCK.
D. FILL CONCRETE BLOCK WALL WITH 3000 PSI CONCRETE.
E. CONCRETE BOX ROOF.
F. NO. 4 REBAR. MINIMUM 6" O.C. EACH WAY EXCEPT 3" O.C. SPACING AROUND ROOF OPENING.
G. 4'- 5" X 2'- 2" X 3/8" CHECKERED STEEL PLATE.
H. 6" X 2" X 1/4" RECTANGULAR TUBULAR STEEL FOR PLATE SUPPORT. SEE DETAIL "A" FOR 6 1/2" WIDE RECESS IN SLAB.
J. PIT FLOOR COVERED WITH 3/4" GRAVEL, 6" DEEP.
K. 1 1/2" X 1 1/2" X 3/16" ANGLE. ALLOW 1/2" CLEARANCE BETWEEN ANGLE AND HOLE SURFACE OR CENTER SUPPORT. WELD BOTH SIDES OF ANGLE TO PLATE FULL LENGTH CENTER ON EACH PLATE.
L. EDGE OF STEEL PLATE.
M. FIELD BEND DOWELS INTO TOP SLAB AFTER CONCRETE FILL IS SET.
N. COMPACT SUBGRADE UNDER & 6" EITHER SIDE OF FOOTING TO 95% OPTIMUM DENSITY PER ASTM D-1557 TO 6" MIN. DEPTH.

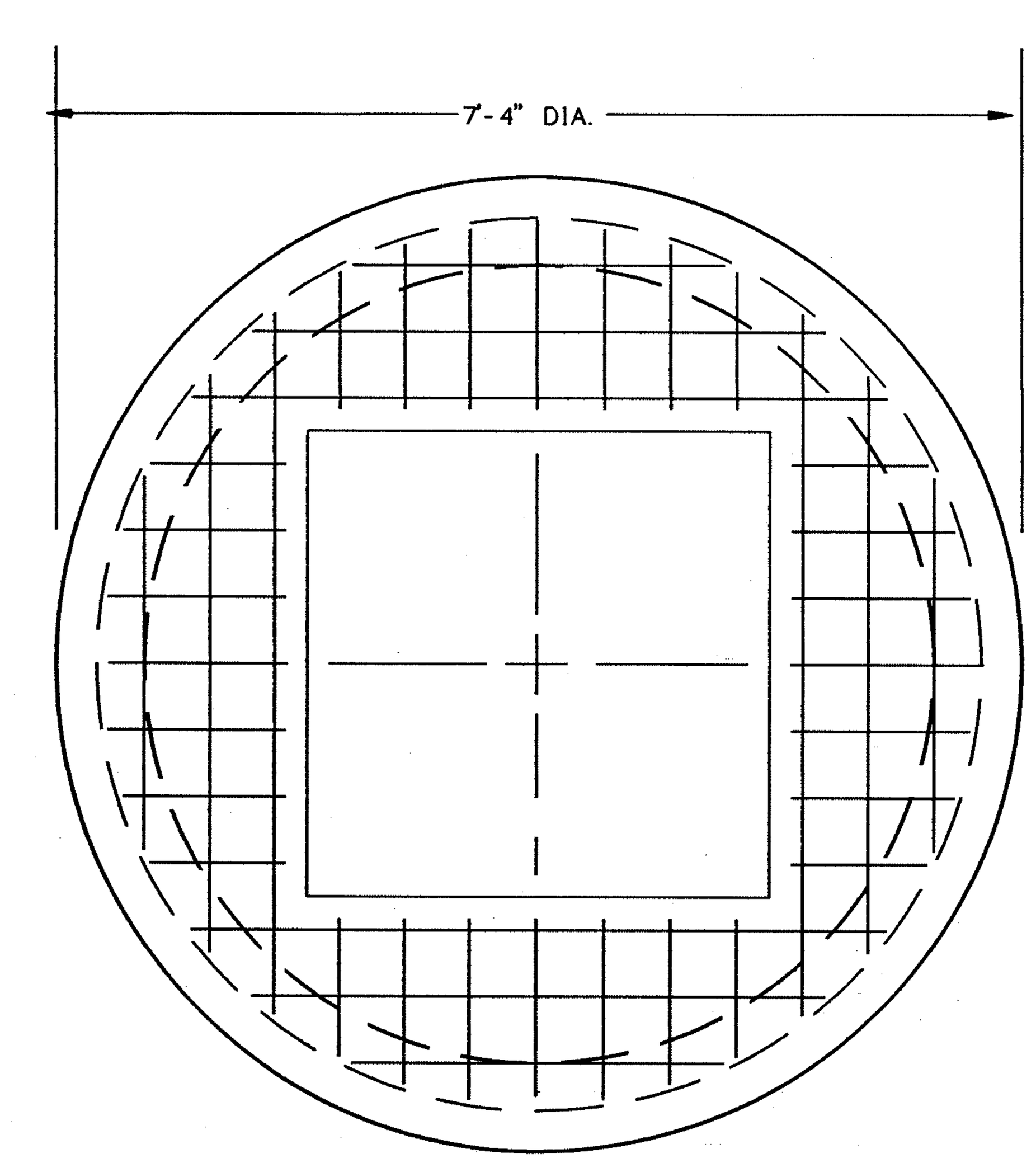
KEYED NOTES:

A. 12" PRESSURE REDUCING VALVE
CLAYTON XXXXXX, CLASS 150, FL/FL
B. 4" PRESSURE REDUCING VALVE
CLAYTON XXXXX, CLASS, FL/FL
C. 12" GATE VALVE, FL/MJ, W/TYPE B BOX
D. 4" GATE VALVE, FL/MJ, W/TYPE B BOX
E. 18" X 12" REDUCER MJ/PE
F. PRESSURE GAUGES W/1/2 PETCOCK CONNECTIONS (FREEZE PROOF, LIQUID FILLED - SPAN INSTRUMENTS OR APPROVED EQUAL)
G. 12" X 4" TEE MJ/FL/FL
H. 4" BAND, 90° FL/FL
I. 18" MJ SPOOL
J. 4" MJ SPOOL

ALL CONNECTING PIECCES SHALL BE DUCTILE IRON PIPE.



B/CC **PLAN**
NTS



TOP & BOTTOM MAT: #4'S @ 6" " E.W.
W/#4 HOOPS & CORNER BARS AS SHOWN

C/CC **CONCRETE MH COVER**
NTS

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OFFSITE WATER SYSTEM DISTRIBUTION - PHASE 2

MISCELLANEOUS DETAILS

FWP NO.	FILE NAME	DRAWING NO.	
	C40099CG	C40099CG	
OLD DWG NO.	PLOT SCALE	DRAWING SCALE	SHEET OF
	1 = 1	NTS	7 7

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