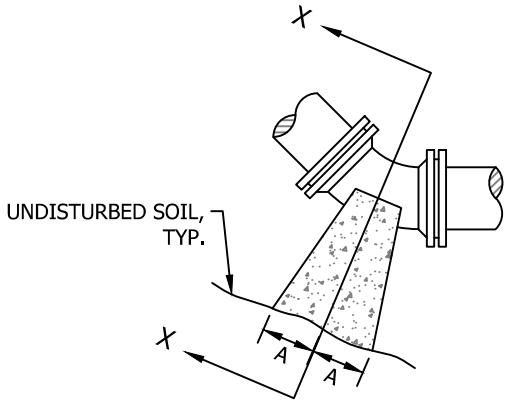
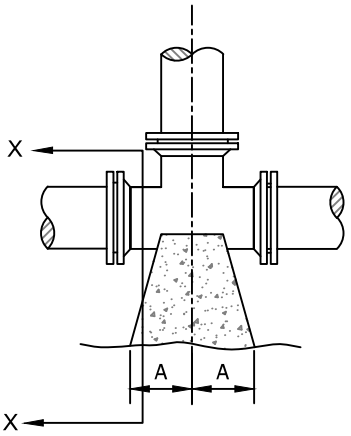
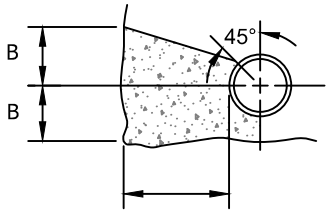


PLAN- BENDS

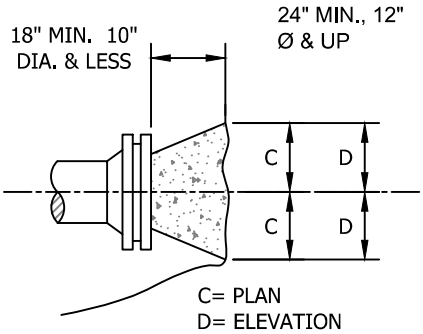


PLAN -TEES



18" MIN.-10" DIA. OR LESS
24" MIN.-12" DIA. OR GREATER

SECTION X-X
BENDS & TEES



C= PLAN
D= ELEVATION

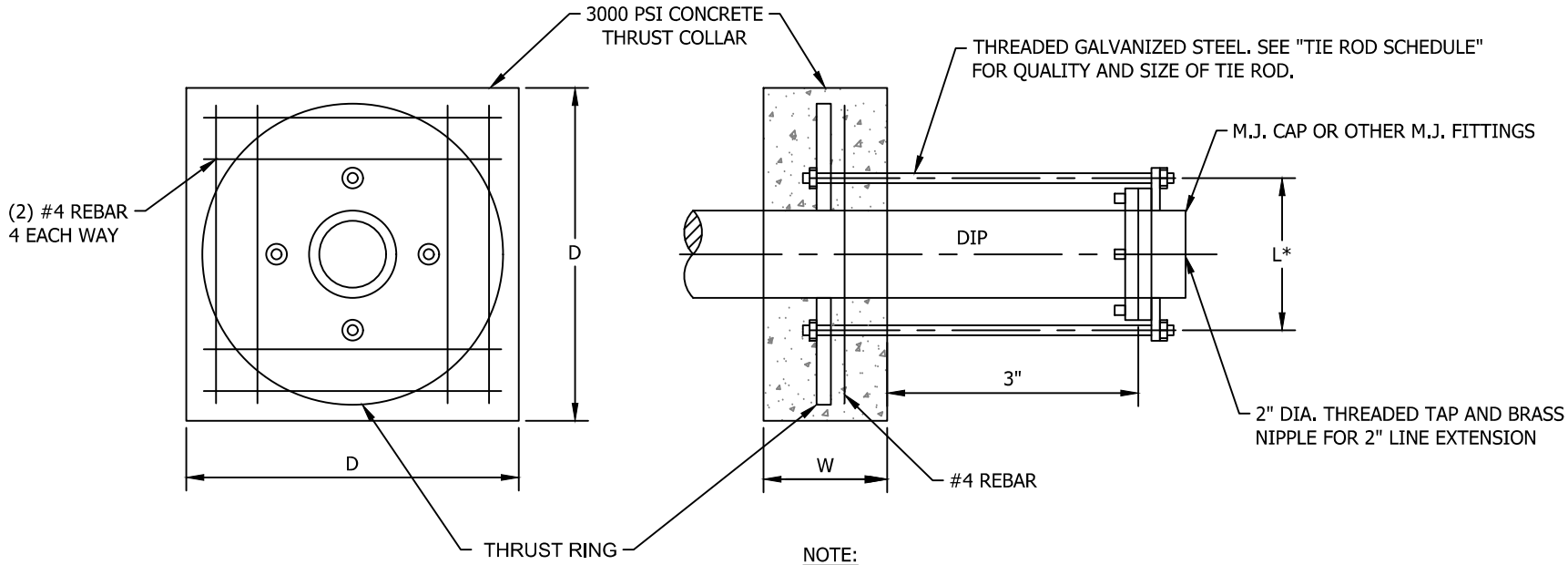
PLAN & ELEVATION
PLUGS

PIPE SIZE	90° BEND		45° BEND		22-1/2° BEND		11-1/4° BEND		TEE		PLUG	
	A	B	A	B	A	B	A	B	A	B	C	D
4"	18"	12"	10"	13"	7"	10"	7"	10"	12"	14"	13"	6"
6"	18"	12"	10"	13"	7"	10"	7"	10"	12"	14"	19"	9"
8"	24"	18"	13"	18"	10"	12"	10"	12"	16"	18"	25"	11"
10"	28"	22"	15"	22"	12"	15"	12"	15"	20"	22"	31"	14"
12"	32"	28"	19"	28"	14"	18"	14"	18"	22"	28"	37"	17"
16"	54"	38"	30"	36"	18"	36"	18"	36"	36"	42"	54"	24"

2000 PSF SOIL (SAND & GRAVEL WITH CLAY)

NOTES:
1. BASED ON 200 PSI STATIC PRESSURE PLUS AWWA WATER HAMMER ALLOWANCE.
2. ALL BEARING SURFACES TO BE CARRIED TO UNDISTRURBED GROUND.
3. THRUST BLOCKS TO BE USED AT ALL LINES OPERATING UNDER PRESSURE.
4. KEEP ALL PIPING JOINTS CLEAR OF CONCRETE THRUST BLOCKS.
5. WRAP ALL FITTINGS IN PLASTIC.

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	THRUST BLOCKING	STD. NO. 1000.01
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE



NOTE:
THRUST COLLAR SHALL BE FORMED USING 1/2" EXTERIOR PLYWOOD AS PER COLLAR DIMENSION SHOWN

TIE ROD SCHEDULE		
PIPE DIAM.	QUAN.	SIZE
0'-4"	2	0'-0 5/8"
0'-6"	2	0'-0 3/4"
0'-8"	2	0'-0 3/4"
1'-0"	4	0'-0 3/4"
1'-4"	4	0'-0 7/8"
1'-8"	4	0'-1"
2'-0"	4	0'-1 1/4"
2'-6"	4	0'-1 1/2"

* CONTRACTOR VERIFY DISTANCE W/COLLAR SUPPLIERS.

COLLAR DIMENSIONS			
SIZE LINE	MIN. W	MIN. D	PLATE DIAM.
0'-4"	0'-6"	L+8"	L+2"
0'-6"	0'-9"	L+9"	L+3"
0'-8"	1'-0"	L+9"	L+3"
1'-0"	1'-6"	L+9"	L+3"
1'-4"	1'-6"	L+9"	L+3"
1'-8"	20"?	L+9"	L+3"
2'-0"	24"?	L+10"	L+4"
2'-6"	2'-0"	L+11"	L+5"

H2GO

BRUNSWICK REGIONAL WATER AND SEWER H2GO

EFFECTIVE: OCTOBER 2024

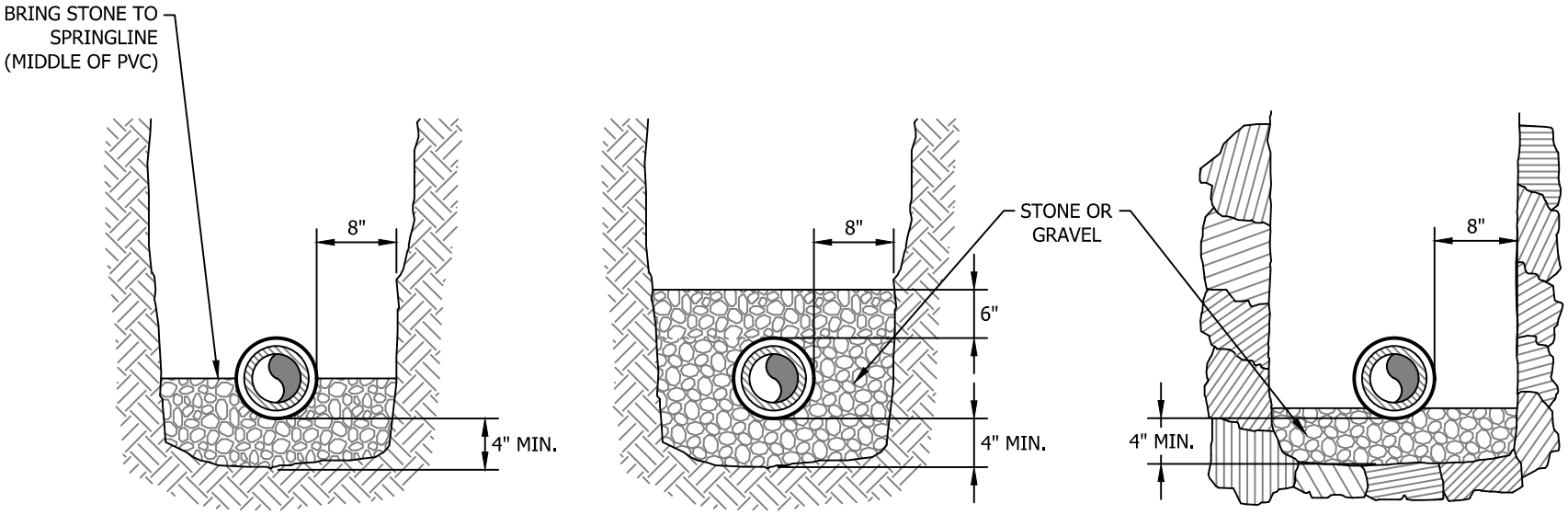
THRUST COLLAR

STD. NO.

1000.02

NOT TO SCALE

START LAYING AT LOW END AND BUILD AGAINST DIRECTION OF FLOW

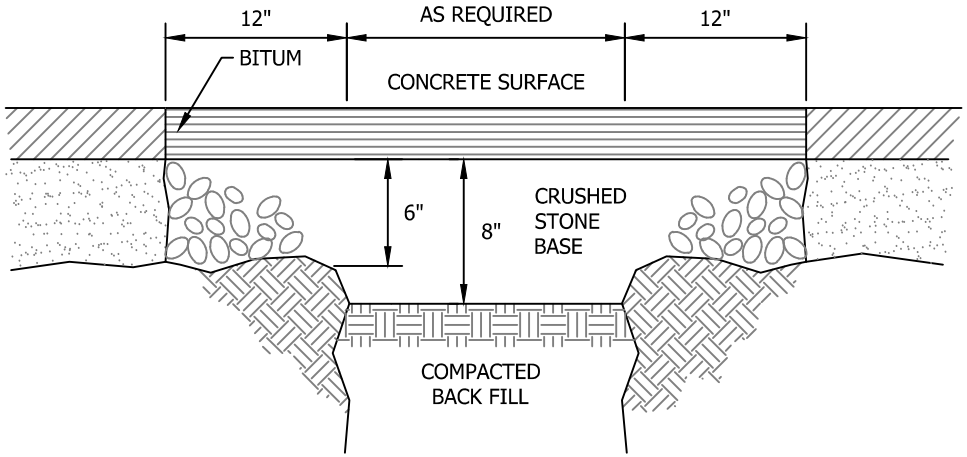


P.V.C. PIPE
NORMAL CONDITIONS

P.V.C. PIPE
WET CONDITIONS

D.I.P. IN ROCK
WET CONDITIONS

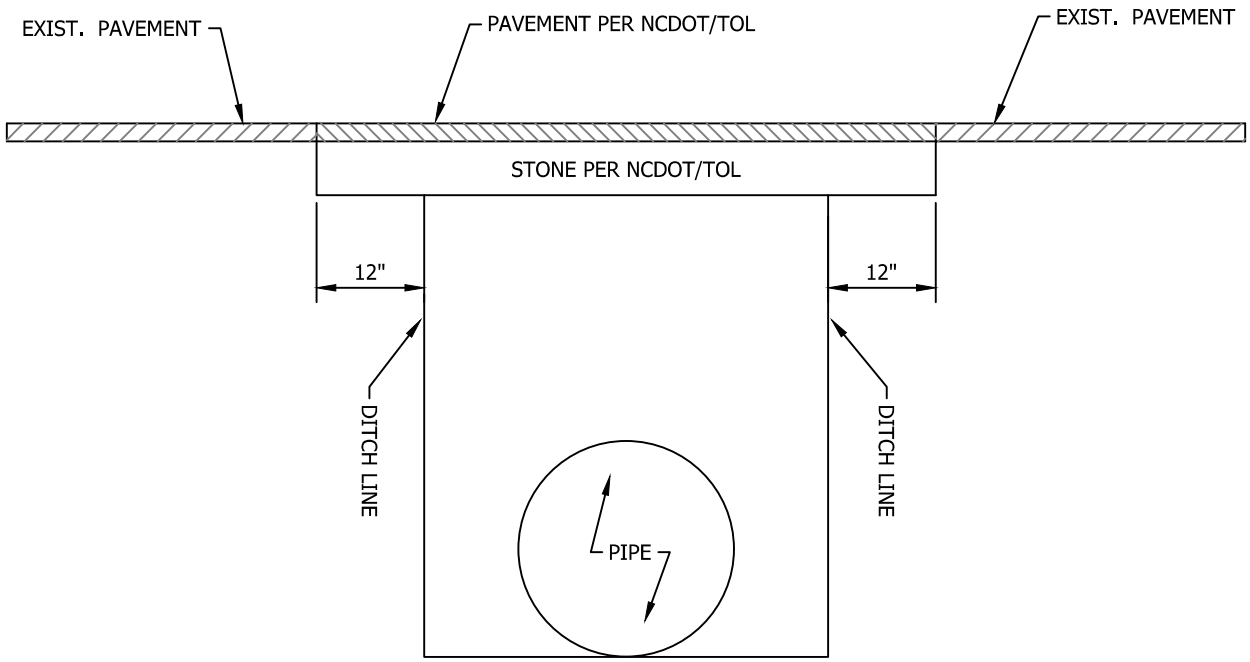
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	STANDARD TRENCHING DETAIL (GRAVITY SEWER)	STD. NO. 1000.03 NOT TO SCALE



USE MATERIALS PER NCDOT REQUIREMENTS ON NCDOT DRIVEWAYS AND ROADWAYS.

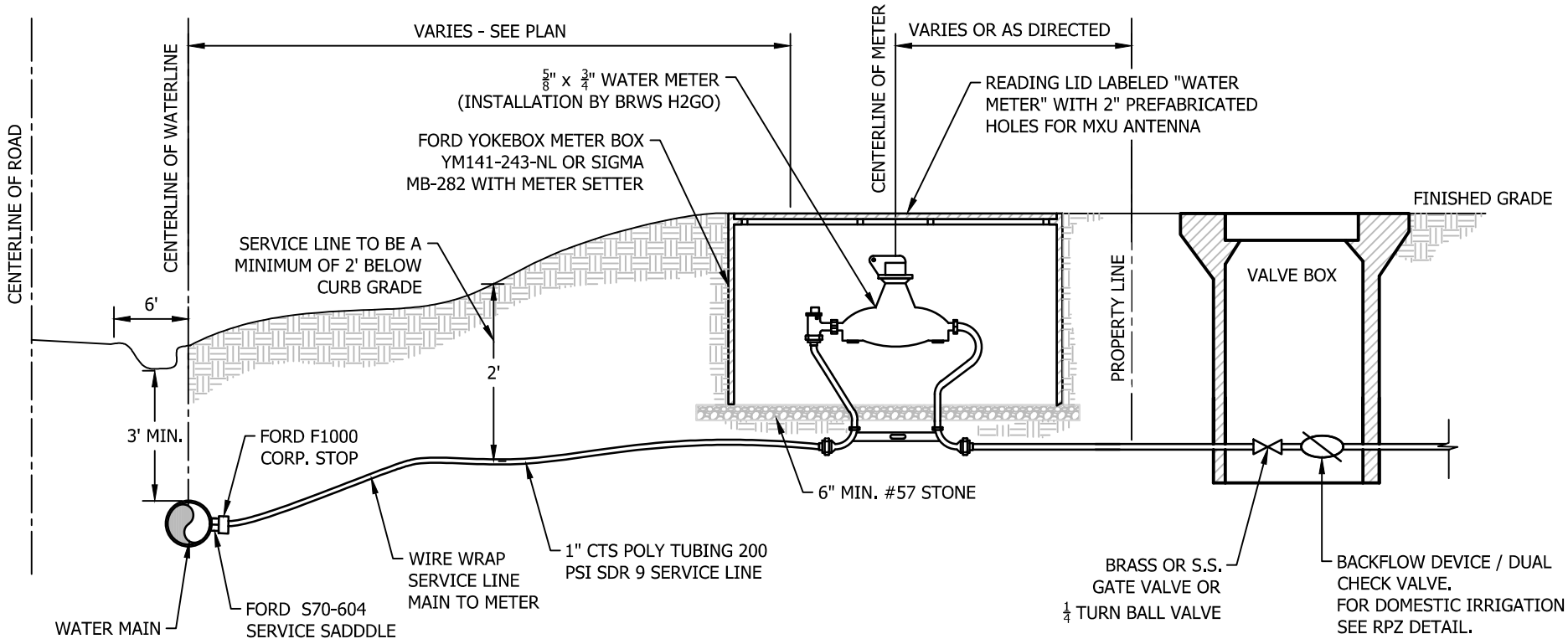
USE MATERIALS PER TOWN OF LELAND REQUIREMENTS ON TOWN OF LELAND DRIVEWAYS AND ROADWAYS.

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	PAVEMENT REPAIR	STD. NO. 1000.04 NOT TO SCALE



NOTES:
1. REFERENCE SPECIFICATIONS FOR BACKFILLING AND COMPACTION REQUIREMENTS.
2. CUT-BACK TO BE PERFORMED AFTER TRENCH BACKFILLING AND COMPACTION.
3. NEW PAVEMENT TO MEET ALL NCDOT OR TOWN OF LELAND (TOL) REQUIREMENTS. CONFIRM ROADWAY OWNER PRIOR TO CONSTRUCTION.

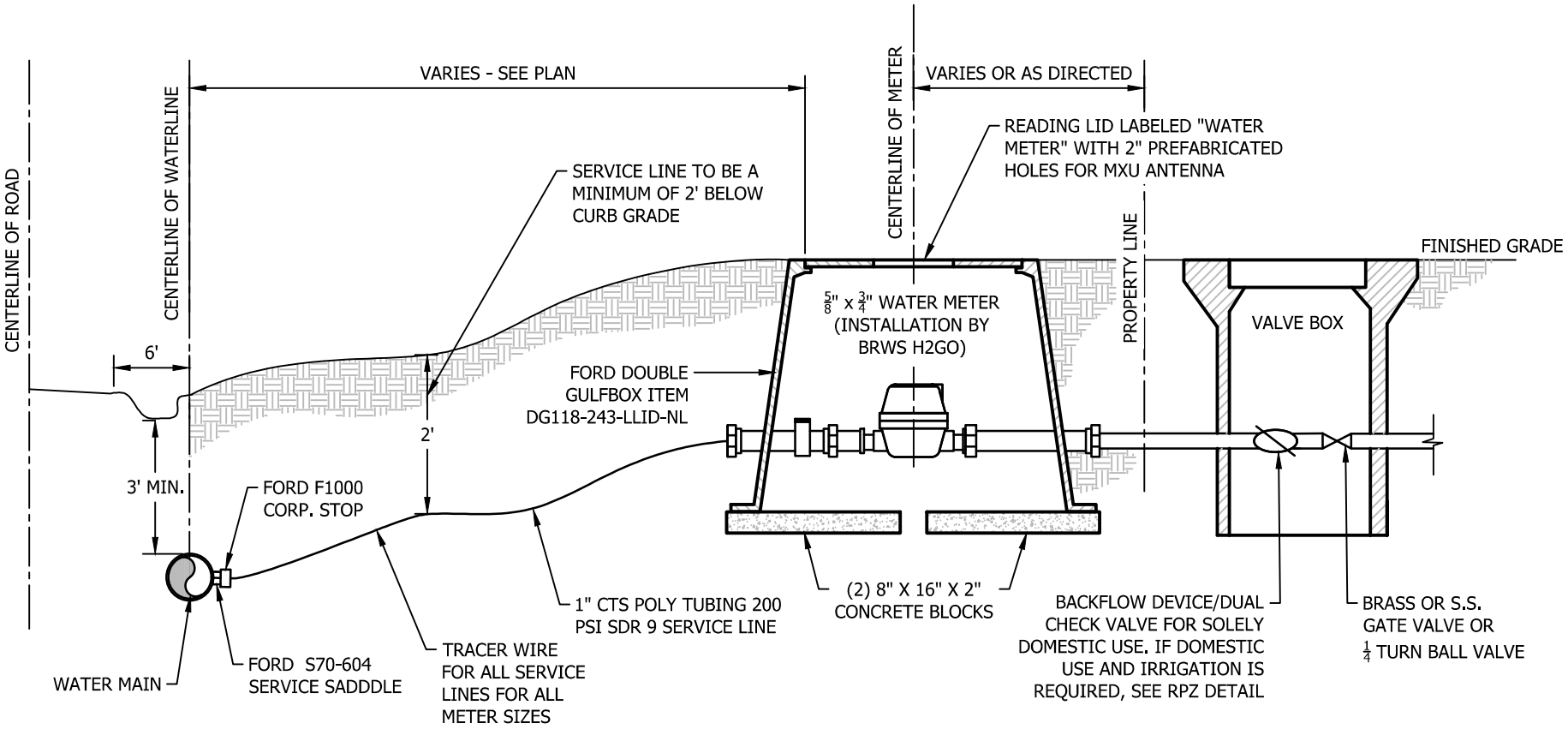
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	PIPE INSTALLATION PAVEMENT REPAIR	STD. NO. 1000.05 NOT TO SCALE



NOTES:

1. CONTRACTOR SHALL PLACE WATER METER BOX IN NON-TRAFFIC AREA AT LOCATION SPECIFIED BY BRWS H2GO.
2. ALL BRASS OR STAINLESS STEEL FITTINGS FROM METER SETTER TO / INCLUDING DUAL CHECK VALVE.
3. NO COUPLINGS BETWEEN MAIN LINE AND METER SETTER.

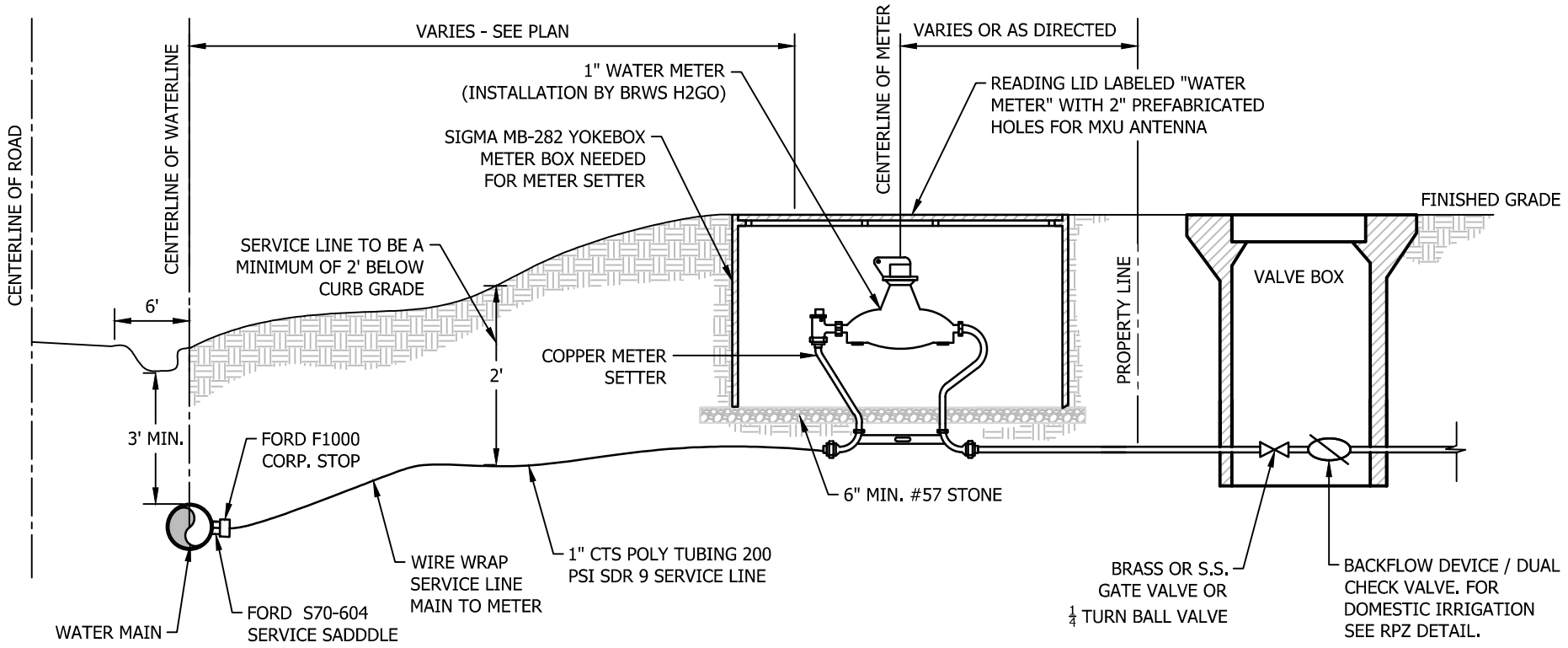
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	FORD YOKEBOX 3/4" WATER SERVICE	STD. NO. 2000.01 NOT TO SCALE



NOTE:

1. CONTRACTOR SHALL PLACE WATER METER BOX IN NON-TRAFFIC AREA AT LOCATION SPECIFIED BY BRWS H2GO.
2. ALL BRASS OR STAINLESS STEEL FITTINGS FROM METER SETTER TO / INCLUDING DUAL CHECK VALVE.
3. NO COUPLINGS BETWEEN MAIN LINE AND METER.

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	FORD DOUBLE GULFBOX 3/4" WATER SERVICE (DOMESTIC AND IRRIGATION)	STD. NO. 2000.02 NOT TO SCALE

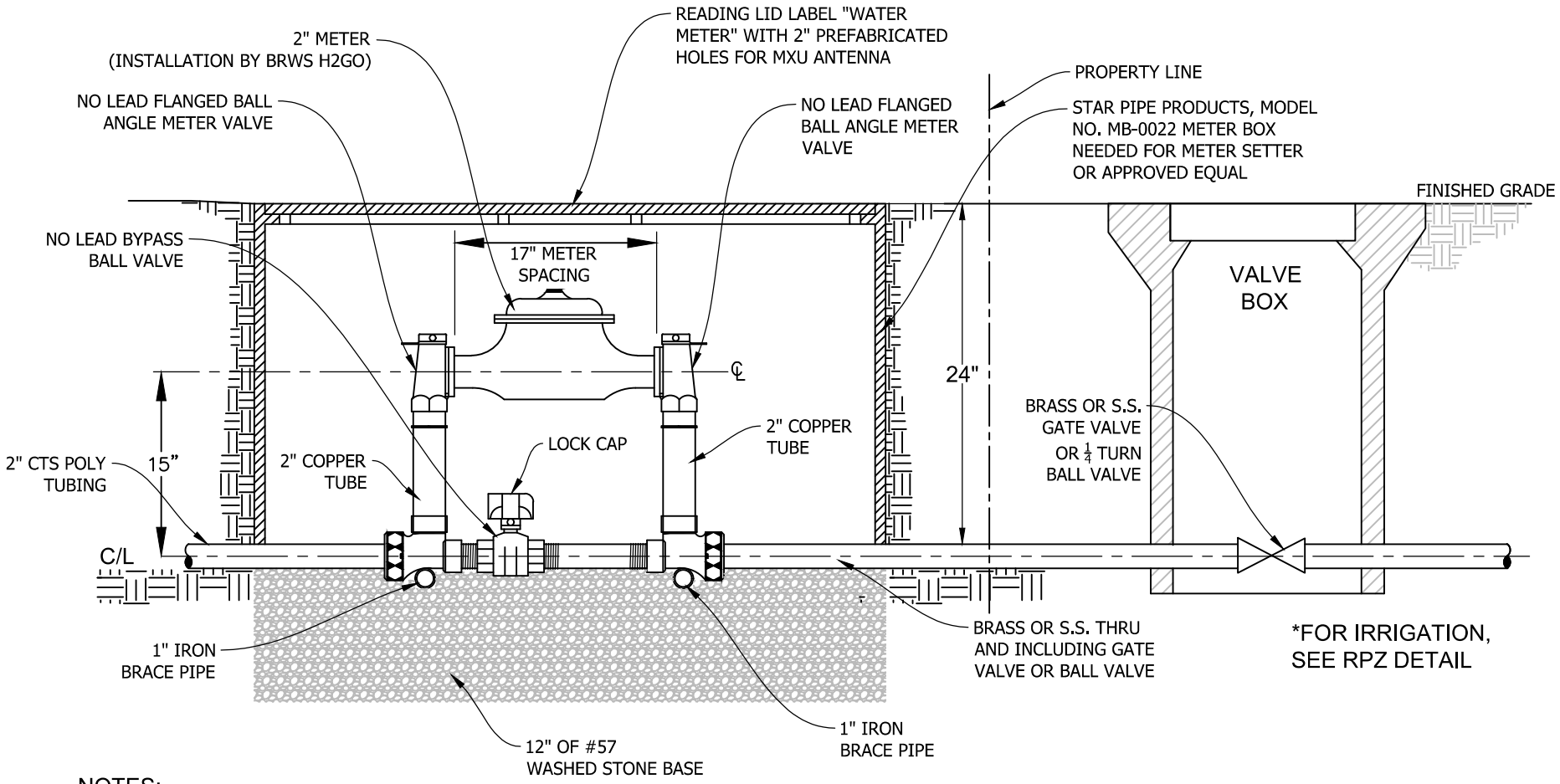


NOTES:

1. CONTRACTOR SHALL PLACE WATER METER BOX IN NON-TRAFFIC AREA AT LOCATION SPECIFIED BY BRWS H2GO.

2. ALL BRASS OR STAINLESS STEEL FITTINGS FROM METER SETTER TO / INCLUDING DUAL CHECK VALVE.

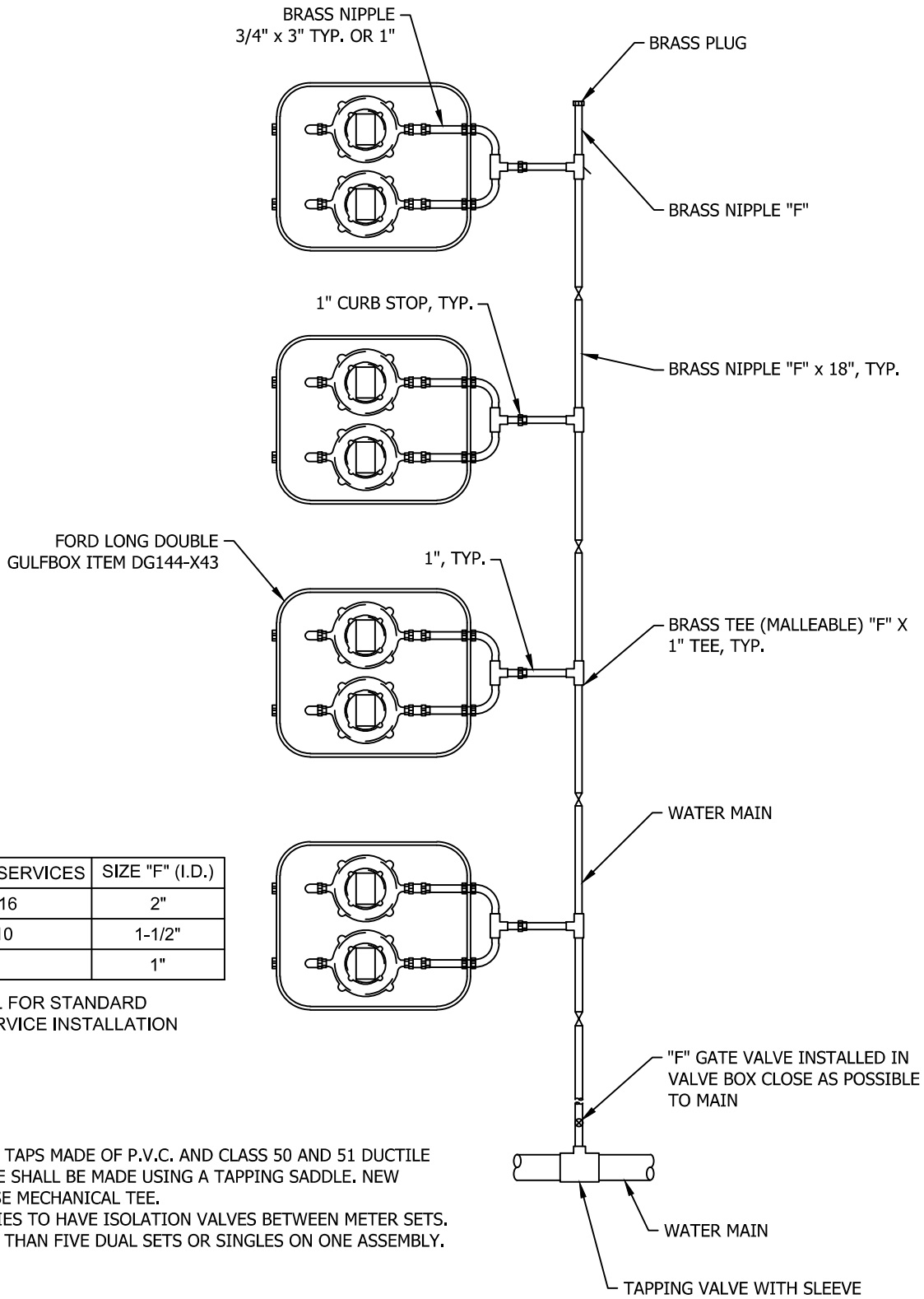
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	1" WATER SERVICE	STD. NO. 2000.03 NOT TO SCALE



NOTES:

1. PIPING TO BE "NO LEAD" BRASS AND COPPER TUBING. METER INLET AND OUTLET TO BE EQUIPPED WITH FLANGED BALL ANGLE METER VALVES.
2. CUSTOM SETTERS SHALL BE EQUIPPED WITH STANDARD LOW BYPASS WITH BALL VALVE AND PADLOCK WINGS.
3. CUSTOM SETTERS SHALL BE LISTED ON BRWS H2GO APPROVED PRODUCTS LIST.
4. ALL BRASS COMPONENTS SHALL BE "NO LEAD" BRASS MEETING UNS C89833 AS PER ASTM B584.
5. ALL APPLICATIONS REQUIRE A SEPARATE ABOVE GROUND BACKFLOW PREVENTER.
6. CUSTOM SETTER SHALL BE INSTALLED SUCH THAT THE METER REGISTER IS LOCATED 5 TO 8 INCHES BELOW METER BOX COVER.

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	2" WATER SERVICE	STD. NO. 2000.04 NOT TO SCALE

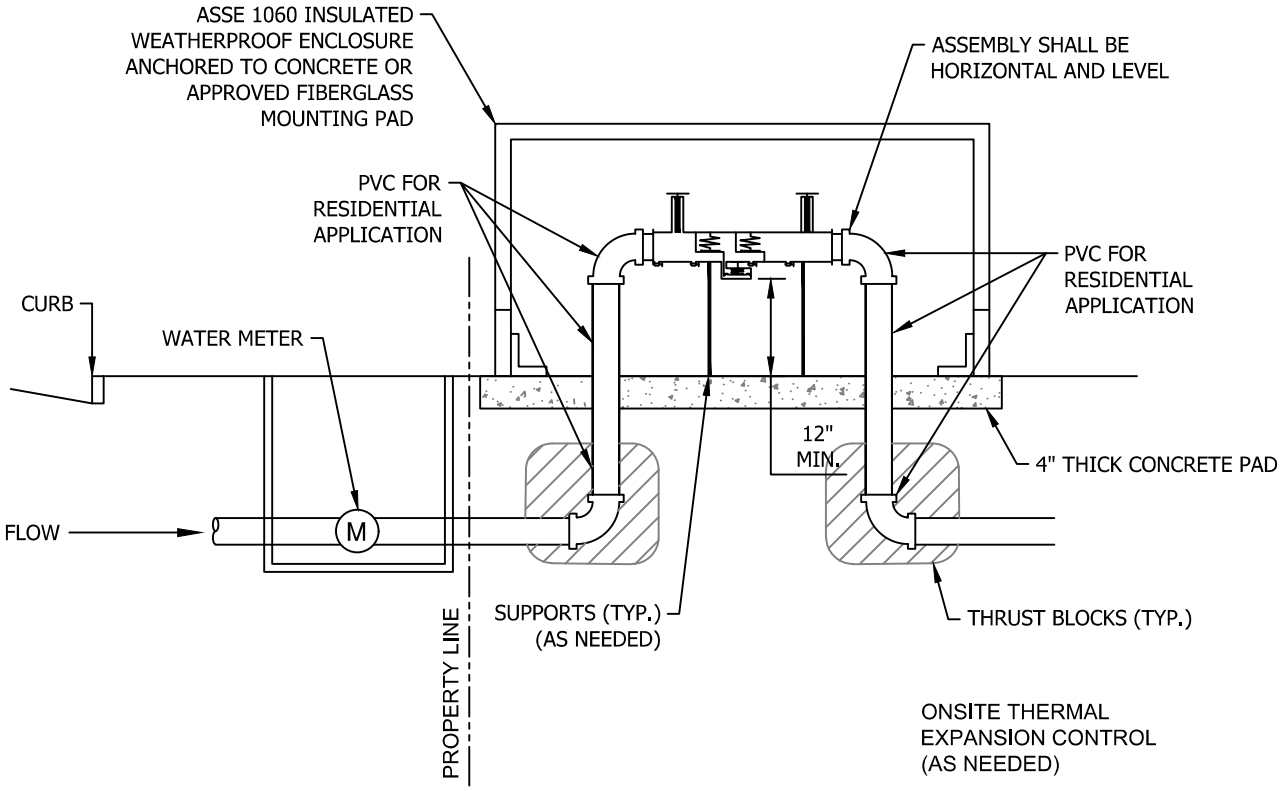


METERED SERVICES	SIZE "F" (I.D.)
11-16	2"
3-10	1-1/2"
2	1"

SEE DETAIL FOR STANDARD
WATER SERVICE INSTALLATION

NOTES:
1. EXISTING TAPS MADE OF P.V.C. AND CLASS 50 AND 51 DUCTILE IRON PIPE SHALL BE MADE USING A TAPPING SADDLE. NEW MAINS USE MECHANICAL TEE.
2. ASSEMBLIES TO HAVE ISOLATION VALVES BETWEEN METER SETS.
3. NO MORE THAN FIVE DUAL SETS OR SINGLES ON ONE ASSEMBLY.

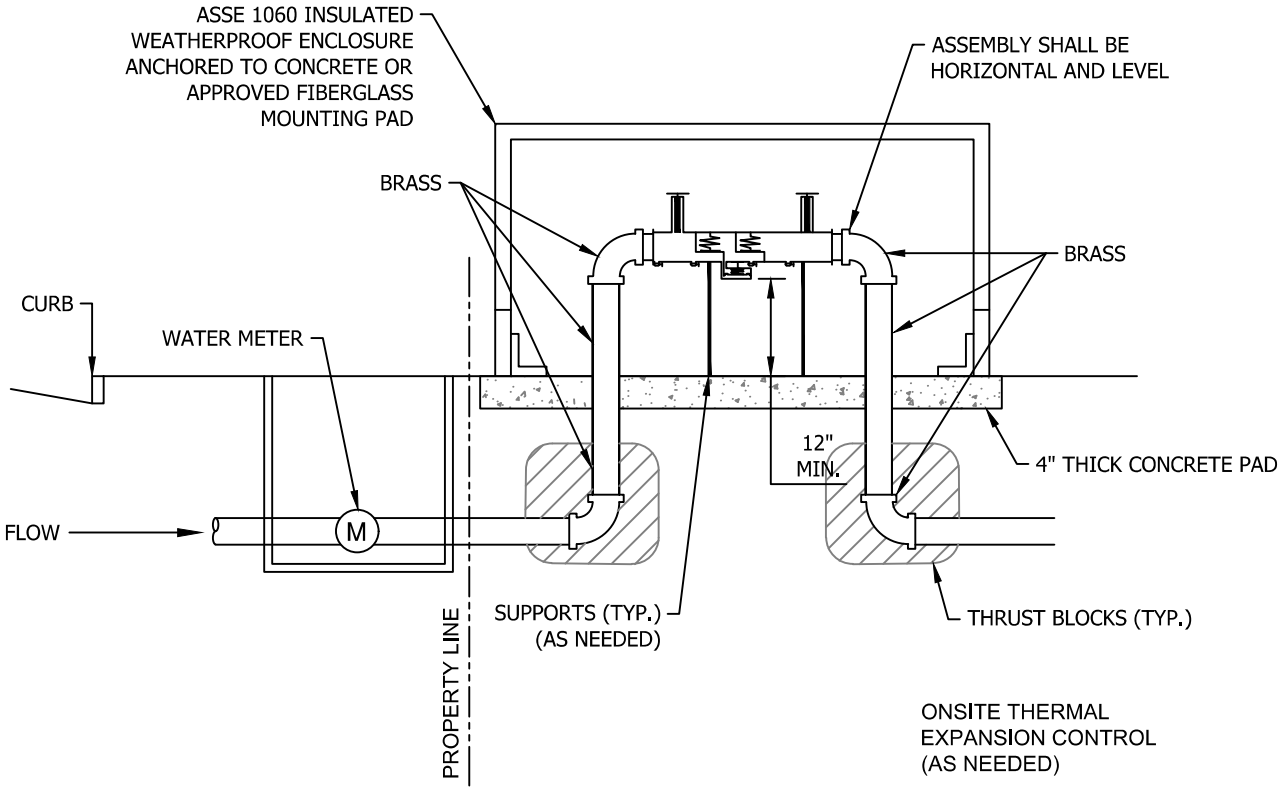
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	STANDARD GANG METER ASSEMBLY	STD. NO. 2000.05
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE



NOTES:

1. ALL BACKFLOW DEVICES TO COMPLY WITH USC STANDARDS AND AWWA C511 DESIGN REQUIREMENTS.
2. ASSEMBLY SHALL BE LOCATED AS CLOSE TO THE SERVICE CONNECTION AS POSSIBLE WITH NO CONNECTIONS BETWEEN THE WATER METER AND THE BACKFLOW PREVENTION ASSEMBLY.
3. ALL PIPING SHOULD BE HYDRAULICALLY CALCULATED BY WATER USER FOR ONSITE USAGE
4. BACKFLOW PREVENTION ASSEMBLIES ARE TO BE USED WITHIN THEIR RATED OPERATING CONDITIONS.
   - 4.1. PRESSURE: BACKFLOW PREVENTION ASSEMBLIES TYPICALLY HAVE MAXIMUM WORKING WATER PRESSURES (MWWP) OF 150 PSI (1034 KPa) OR 175 PSI (1206 KPa). ASSEMBLIES ARE DESIGNED TO OPERATE CONTINUOUSLY AT THIS PRESSURE, WHICH IS IDENTIFIED ON THE ASSEMBLY.
   - 4.2. TEMPERATURE: BACKFLOW PREVENTION ASSEMBLIES ARE DESIGNED TO OPERATE CONTINUOUSLY AT THEIR MAXIMUM WORKING WATER TEMPERATURE (MWWT), WHICH IS IDENTIFIED ON THE ASSEMBLY.
   - 4.3. RATE OF FLOW: BACKFLOW PREVENTION ASSEMBLIES ARE DESIGNED TO OPERATE CONTINUOUSLY UP TO THEIR RATED FLOW (i.e. GALLONS PER MINUTE - GPM; OR LITERS PER SECOND - L/S).
5. NO VERTICAL ASSEMBLIES WILL BE ACCEPTED.

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	RPZ DETAIL 3/4" OR 1"	STD. NO. 2000.06 NOT TO SCALE



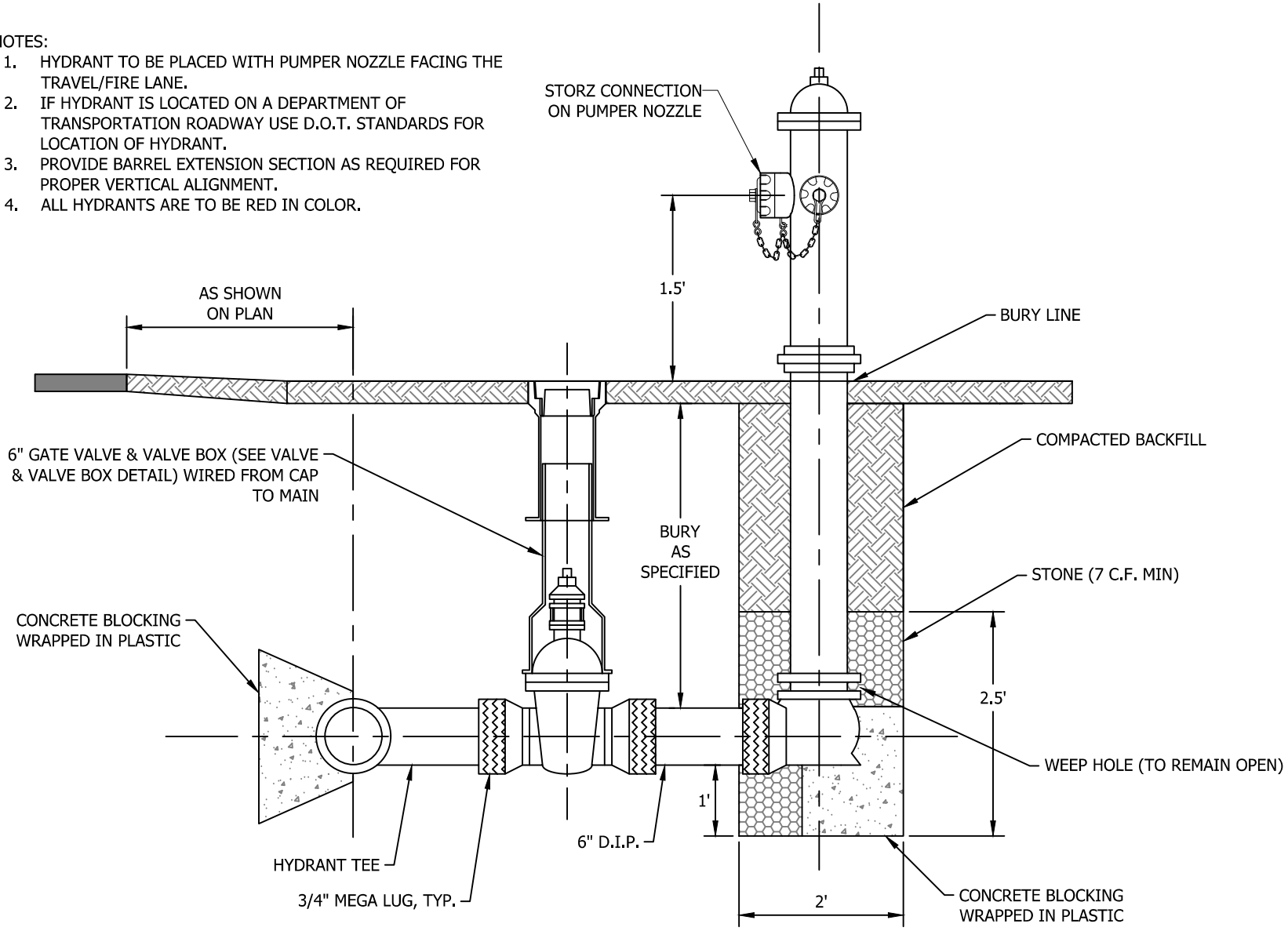
NOTES:

1. ALL BACKFLOW DEVICES TO COMPLY WITH USC STANDARDS AND AWWA C511 DESIGN REQUIREMENTS.
2. ASSEMBLY SHALL BE LOCATED AS CLOSE TO THE SERVICE CONNECTION AS POSSIBLE WITH NO CONNECTIONS BETWEEN THE WATER METER AND THE BACKFLOW PREVENTION ASSEMBLY.
3. ALL PIPING SHOULD BE HYDRAULICALLY CALCULATED BY WATER USER FOR ONSITE USAGE.
4. BACKFLOW PREVENTION ASSEMBLIES ARE TO BE USED WITHIN THEIR RATED OPERATING CONDITIONS.
   - 4.1. PRESSURE: BACKFLOW PREVENTION ASSEMBLIES TYPICALLY HAVE MAXIMUM WORKING WATER PRESSURES (MWWP) OF 150 PSI (1034 KPa) OR 175 PSI (1206 KPa). ASSEMBLIES ARE DESIGNED TO OPERATE CONTINUOUSLY AT THIS PRESSURE, WHICH IS IDENTIFIED ON THE ASSEMBLY.
   - 4.2. TEMPERATURE: BACKFLOW PREVENTION ASSEMBLIES ARE DESIGNED TO OPERATE CONTINUOUSLY AT THEIR MAXIMUM WORKING WATER TEMPERATURE (MWWT), WHICH IS IDENTIFIED ON THE ASSEMBLY.
   - 4.3. RATE OF FLOW: BACKFLOW PREVENTION ASSEMBLIES ARE DESIGNED TO OPERATE CONTINUOUSLY UP TO THEIR RATED FLOW (i.e. GALLONS PER MINUTE - GPM; OR LITERS PER SECOND - L/S).
5. NO VERTICAL ASSEMBLIES WILL BE ACCEPTED.

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	RPZ DETAIL 2" + UP	STD. NO. 2000.07
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE

NOTES:

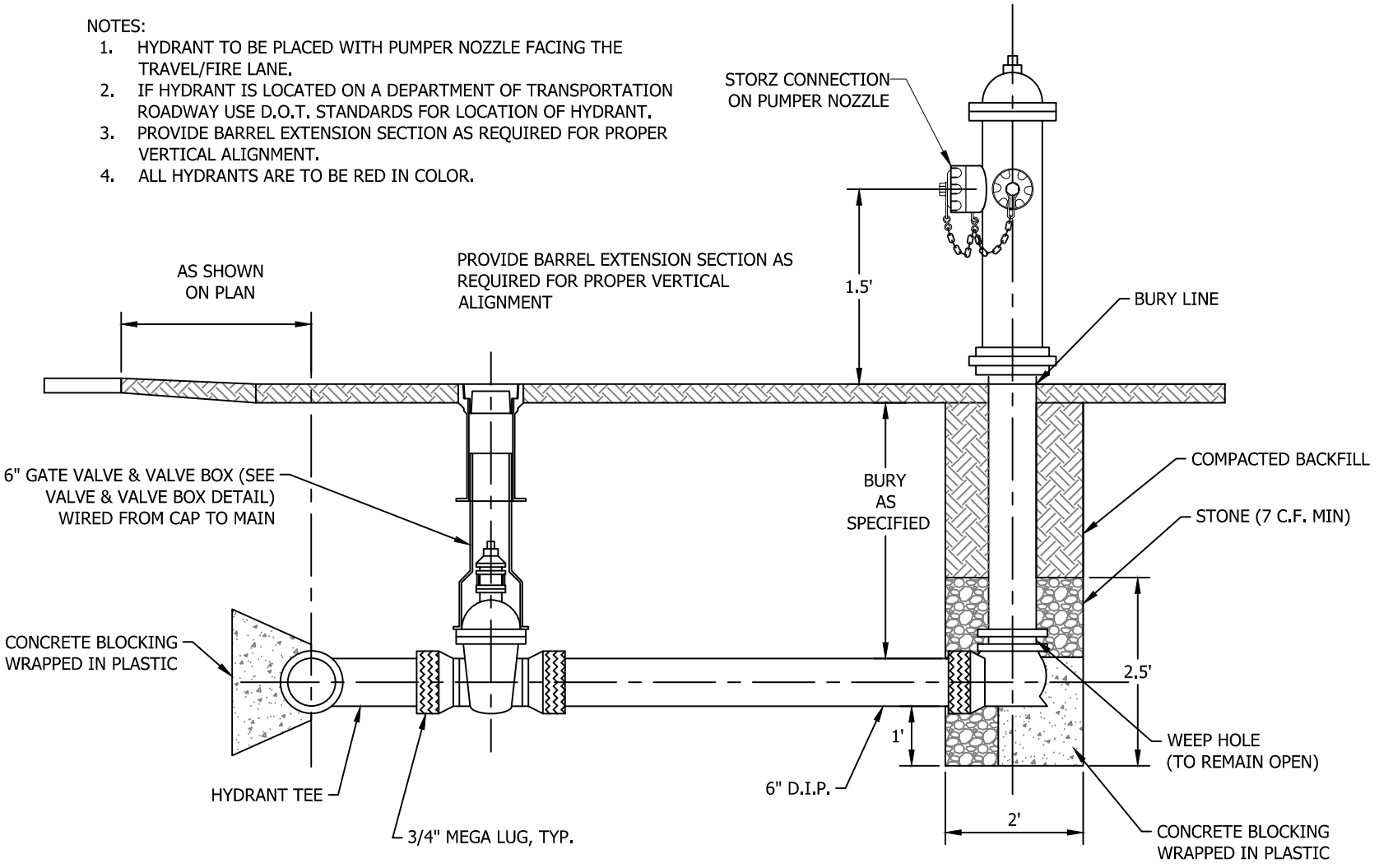
1. HYDRANT TO BE PLACED WITH PUMPER NOZZLE FACING THE TRAVEL/FIRE LANE.
2. IF HYDRANT IS LOCATED ON A DEPARTMENT OF TRANSPORTATION ROADWAY USE D.O.T. STANDARDS FOR LOCATION OF HYDRANT.
3. PROVIDE BARREL EXTENSION SECTION AS REQUIRED FOR PROPER VERTICAL ALIGNMENT.
4. ALL HYDRANTS ARE TO BE RED IN COLOR.



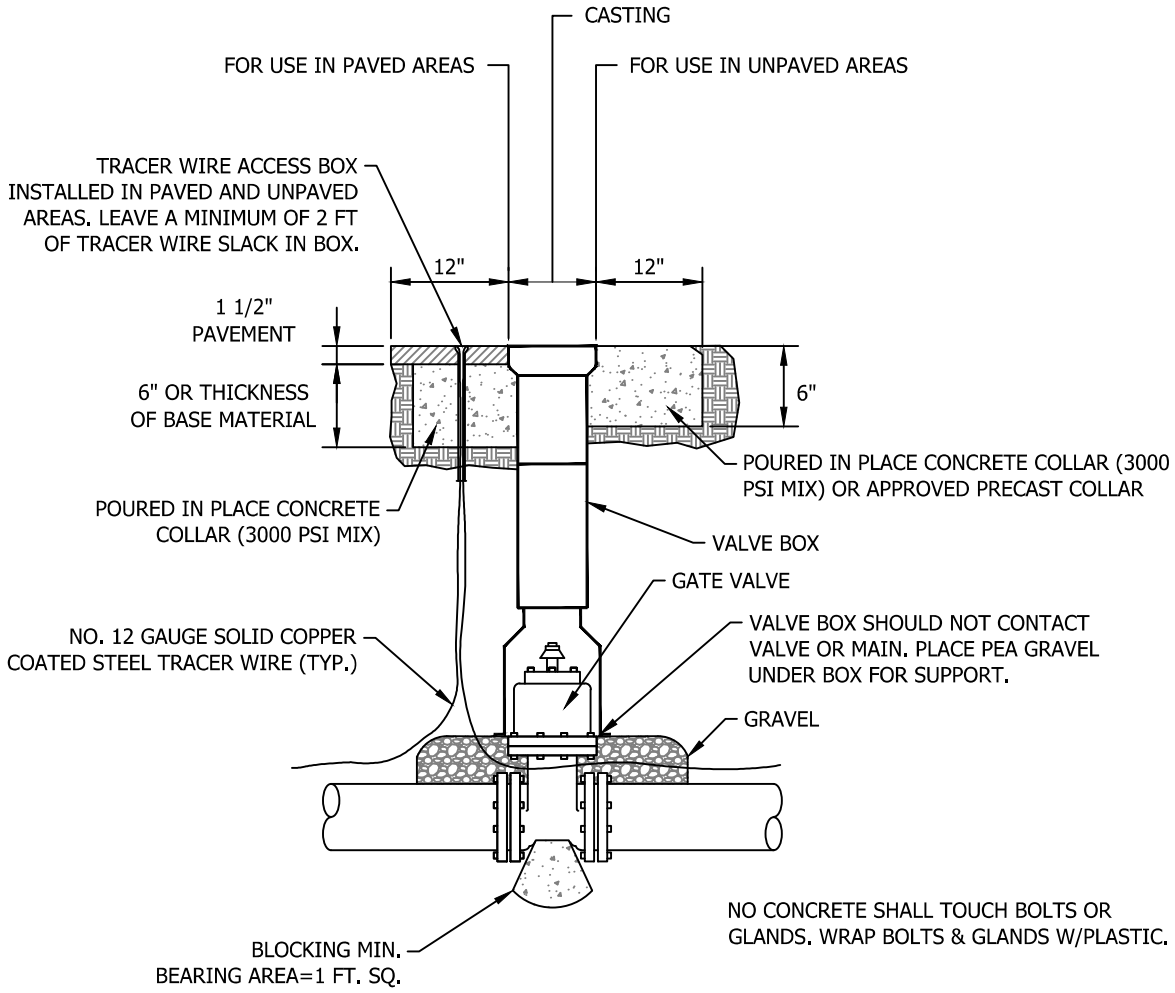
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	FIRE HYDRANT ASSEMBLY	STD. NO. 2000.08
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE

NOTES:

1. HYDRANT TO BE PLACED WITH PUMPER NOZZLE FACING THE TRAVEL/FIRE LANE.
2. IF HYDRANT IS LOCATED ON A DEPARTMENT OF TRANSPORTATION ROADWAY USE D.O.T. STANDARDS FOR LOCATION OF HYDRANT.
3. PROVIDE BARREL EXTENSION SECTION AS REQUIRED FOR PROPER VERTICAL ALIGNMENT.
4. ALL HYDRANTS ARE TO BE RED IN COLOR.



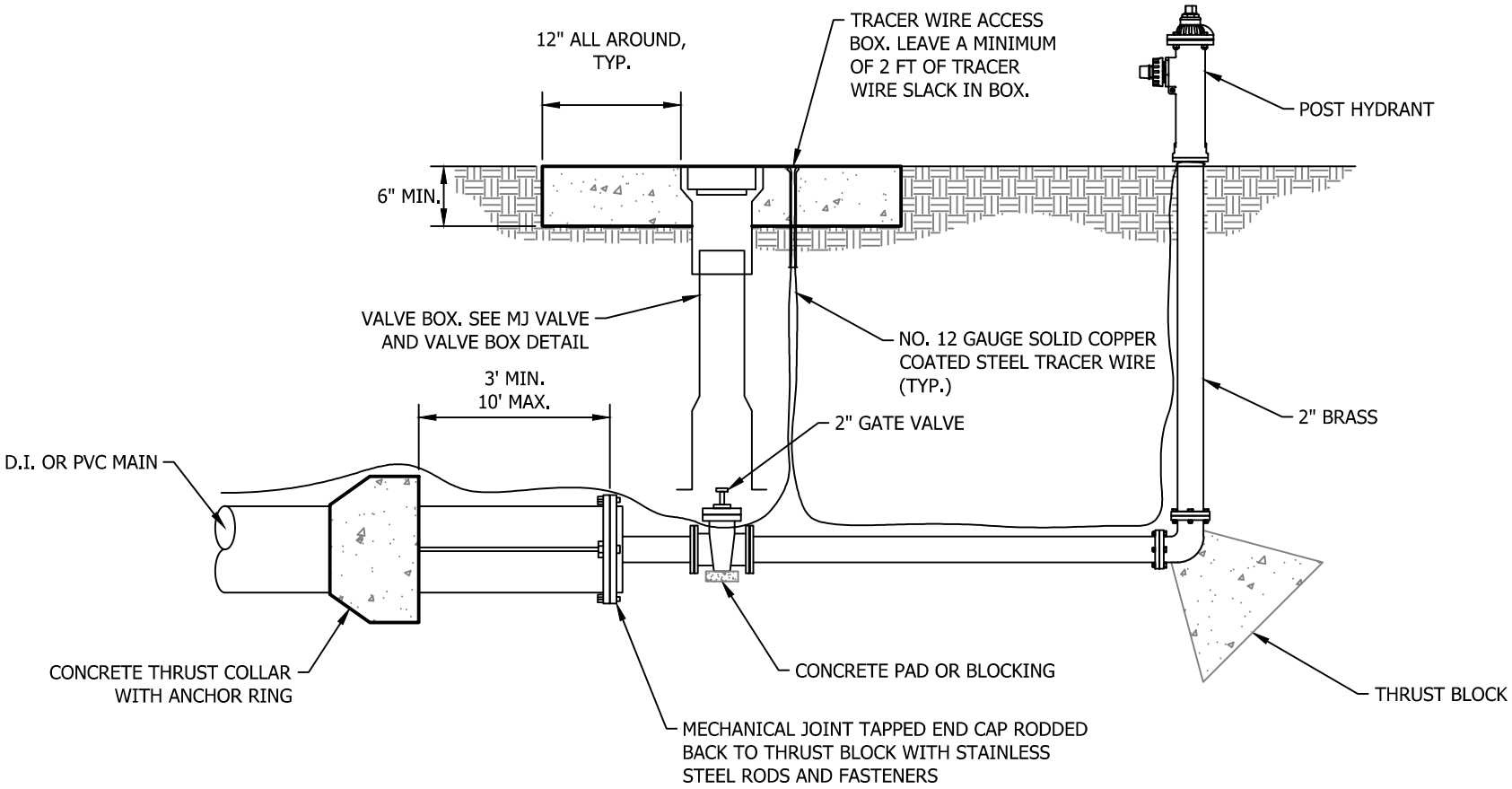
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	FIRE HYDRANT ASSEMBLY (FAR SIDE)	STD. NO. 2000.09 NOT TO SCALE



NOTES:

1. 2" GATE VALVES SHALL F.I.P. THREADS. CONNECTION TO THE PIPE SHALL BE MADE WITH BRASS NIPPLE AND SCH. 40 PVC F.I.P.T. X SLIP ADAPTERS.
2. GATE VALVES GREATER THAN 2" SHALL BE MECHANICAL JOINT.
3. TRACER WIRE ACCESS BOX SHALL BE VALVCO TYPE OR APPROVED EQUAL.
4. FASTEN TRACER WIRE TO PIPE WITH ZIP TIES AROUND THE CIRCUMFERENCE OF PIPE AT 10' INTERVALS (TYP.).

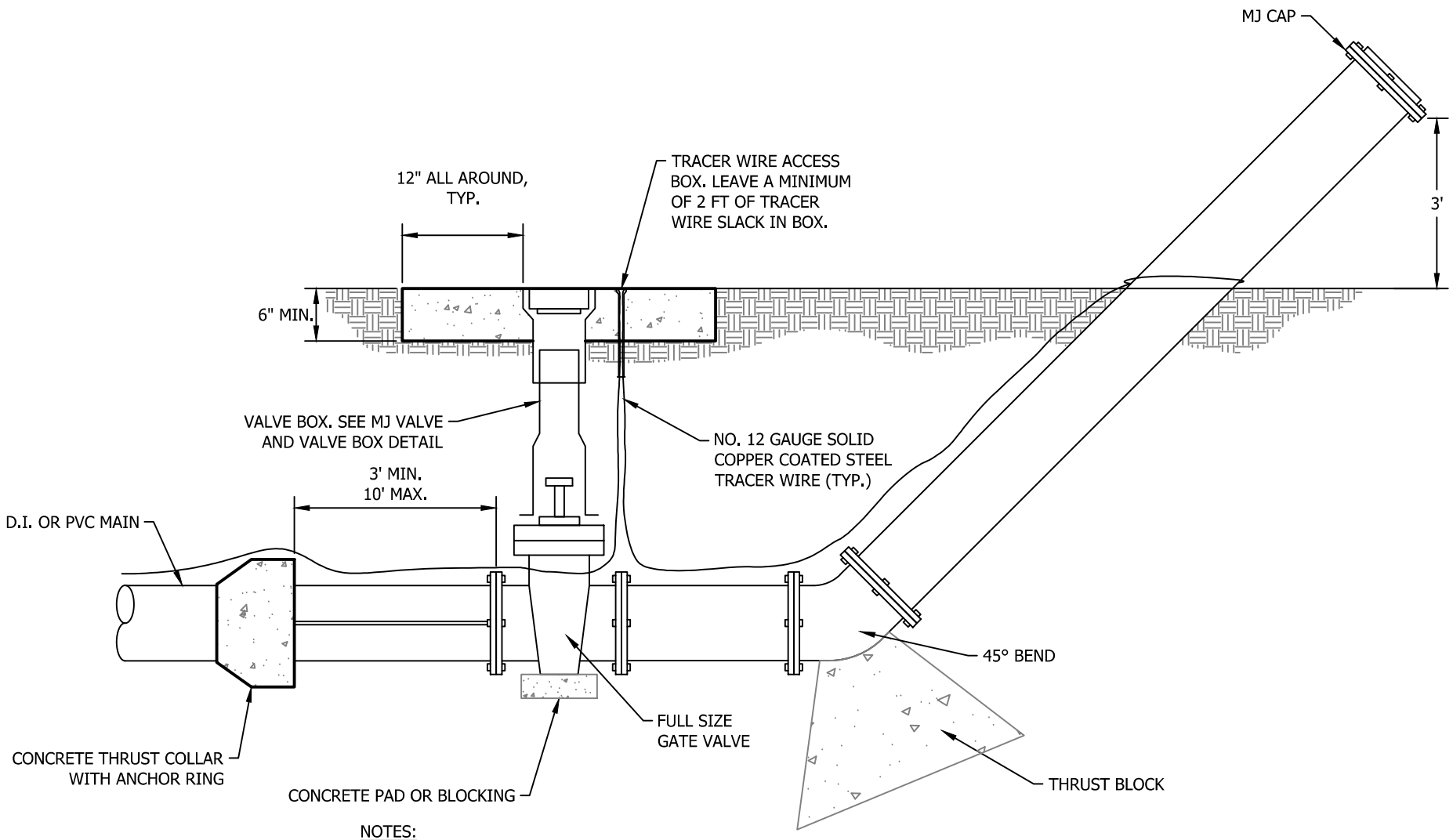
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	M.J. VALVE AND VALVE BOX	STD. NO. 2000.10 NOT TO SCALE



NOTES:

1. SEE SPECIFICATIONS FOR SUPPORT OF VALVE & VALVE BOX IN SOILS OTHER THAN LOOSE DRY SAND.
2. ASSEMBLIES TO BE #2 ECLIPSE POST HYDRANT.
3. HYDRANT SHALL NOT BE INSTALLED IN SIDEWALKS, CONCRETE, OR PAVED AREAS.
4. TRACER WIRE ACCESS BOX SHALL BE VALVCO TYPE OR APPROVED EQUAL.

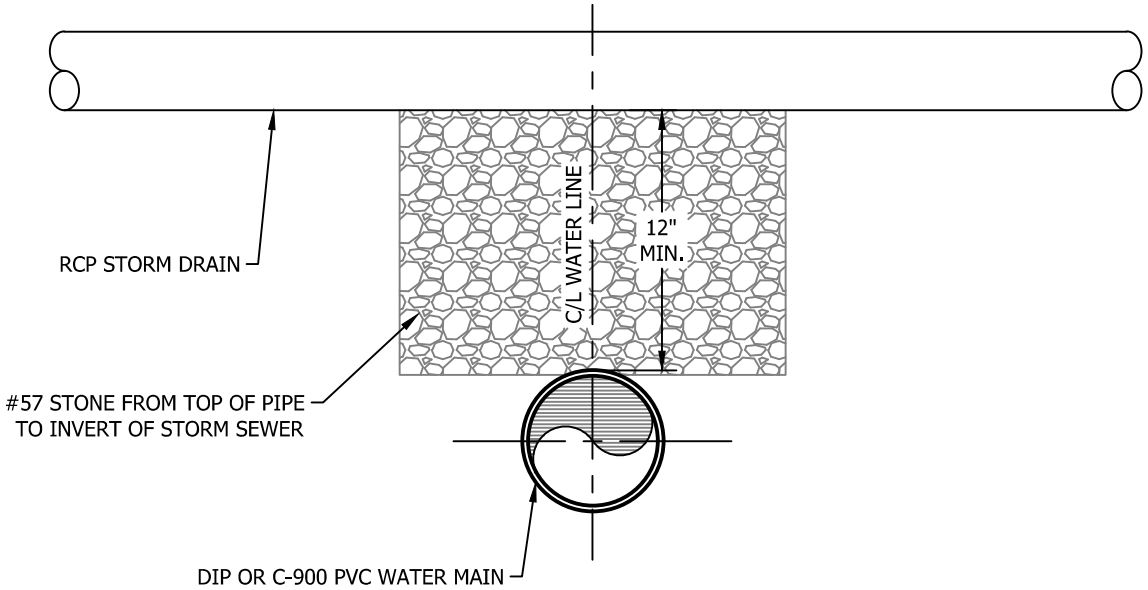
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	2" HYDRANT BLOWOFF ASSEMBLY	STD. NO. 2000.11
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE



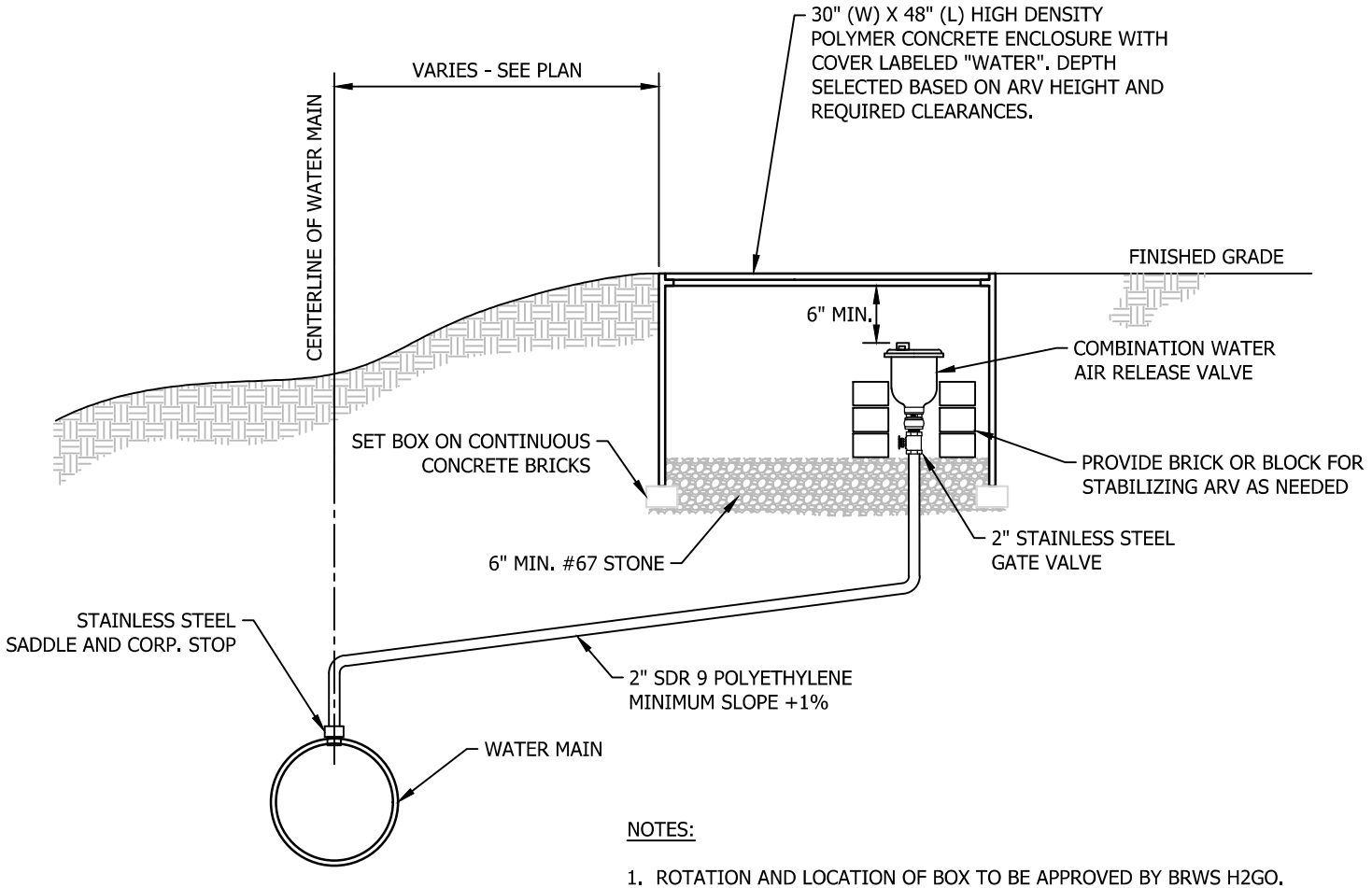
NOTES:

1. SEE SPECIFICATIONS FOR SUPPORT OF VALVE & VALVE BOX IN SOILS OTHER THAN LOOSE DRY SAND.
2. BLOW OFF SHALL BE FULL PIPE SIZE BROUGHT UP WITH A 45° BEND WITH APPROPRIATE RESTRAINT.
3. BLOW OFF SHALL NOT BE INSTALLED IN NCDOT ROW, SIDEWALKS, CONCRETE, OR PAVED AREAS.
4. TRACER WIRE ACCESS BOX SHALL BE VALVCO TYPE OR APPROVED EQUAL.

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	TEMPORARY BLOWOFF	STD. NO. 2000.12
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE



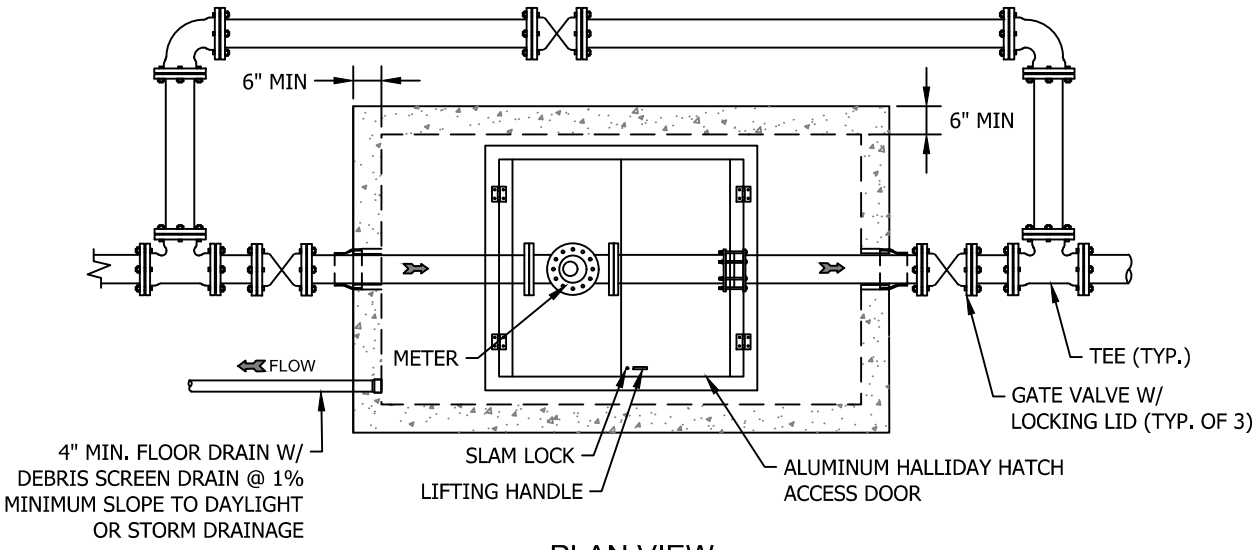
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	WATER & STORM DRAIN INTERSECTION	STD. NO. 2000.13 NOT TO SCALE



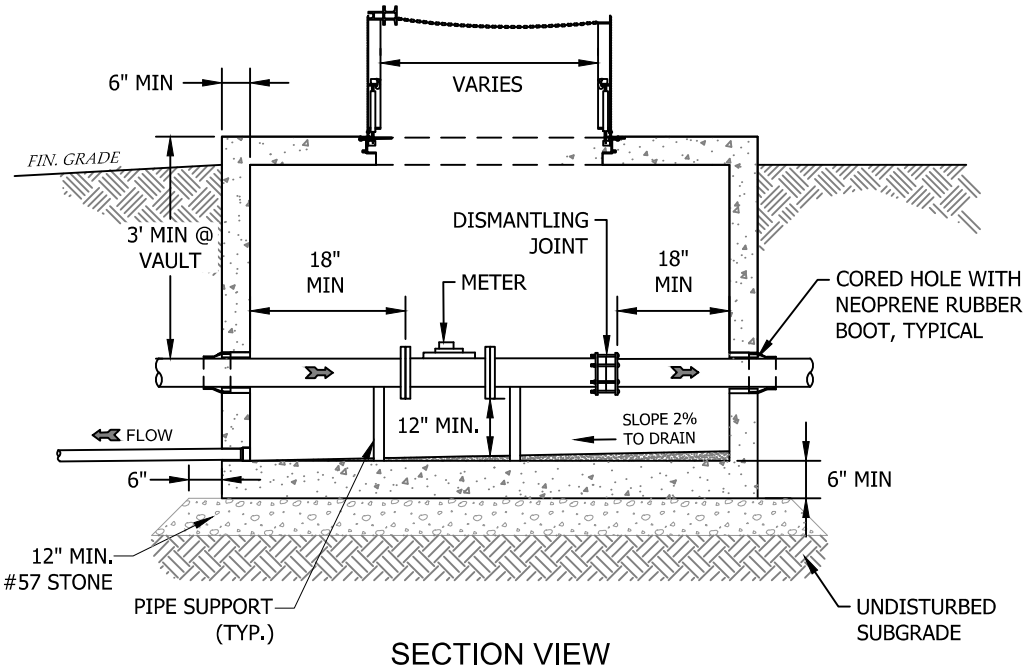
NOTES:

1. ROTATION AND LOCATION OF BOX TO BE APPROVED BY BRWS H2GO.
2. ARV ASSEMBLIES INSTALLED IN ROAD RIGHT-OF-WAY MUST BE FLUSH WITH EXISTING SHOULDER GRADE.
3. ARV ASSEMBLY SHOULD BE OFFSET TO ONE SIDE OF BOX AS SHOWN TO ALLOW EASIER ACCESS FOR OPERATION AND MAINTENANCE.
4. 2" STAINLESS STEEL NIPPLES AND COUPLINGS SHALL BE USED IF NEEDED.

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	OFFSET COMBINATION POTABLE WATER AIR RELEASE VALVE	STD. NO. 2000.14 NOT TO SCALE



PLAN VIEW

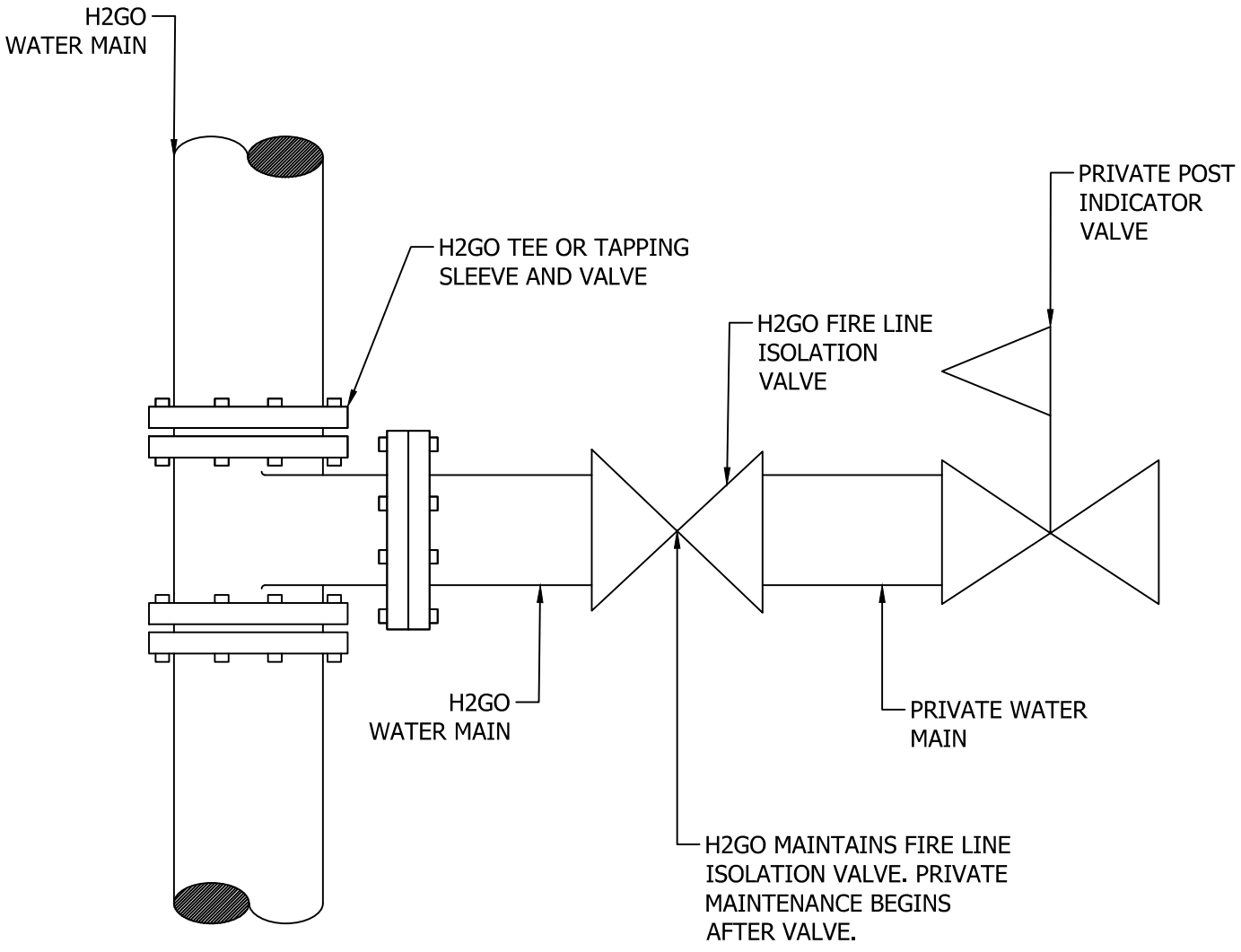


SECTION VIEW

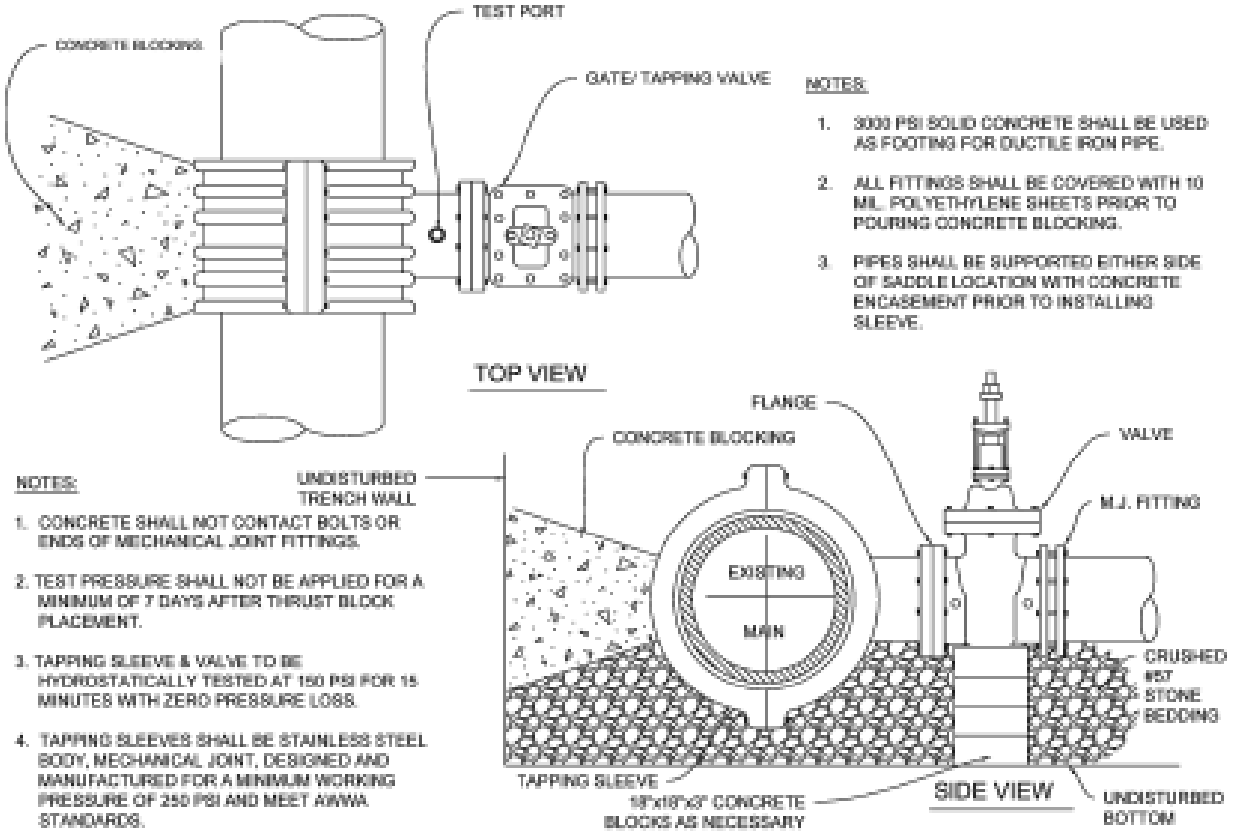
NOTES:

1. ALL PIPING SHOWN TO BE DUCTILE IRON.
2. ALL METER VAULTS AND ACCESS DOORS WITHIN THE ROAD RIGHTS-OF-WAY SHALL MEET HS-20 LOADING REQUIREMENTS.
3. TO ENSURE POSITIVE DRAINAGE, THE VAULT SHALL BE TIED INTO THE EXISTING STORM DRAINAGE SYSTEM, IF POSITIVE DRAINAGE IS UNOBTAINABLE, A SUMP PUMP SHALL BE LOCATED AND OPERATED IN THE VAULT.
4. SEPARATE STRAINER SHALL BE REQUIRED IF PROPOSED METER DOES NOT HAVE AN INTEGRAL STRAINER.
5. ACCESS HATCH SHALL BE SIZED TO ACCOMMODATE METER WITH A MINIMUM CLEARANCE OF 6" ON ALL SIDES.

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	WATER METER VAULT WITH BYPASS (3" AND GREATER)	STD. NO. 2000.15
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE



H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	FIRE LINE ISOLATION VALVE	STD. NO. 2000.16 NOT TO SCALE



NOTES:

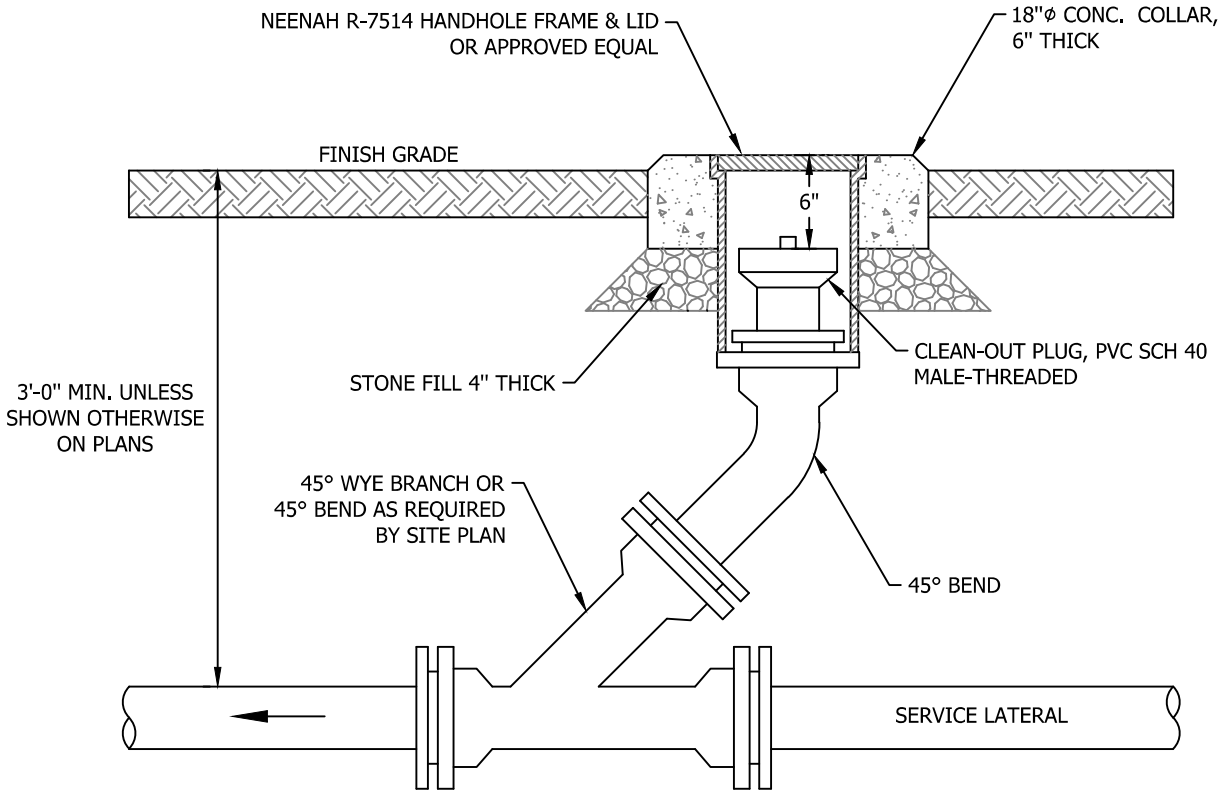
1. 3000 PSI SOLID CONCRETE SHALL BE USED AS FOOTING FOR DUCTILE IRON PIPE.
2. ALL FITTINGS SHALL BE COVERED WITH 10 MIL. POLYETHYLENE SHEETS PRIOR TO POURING CONCRETE BLOCKING.
3. PIPES SHALL BE SUPPORTED EITHER SIDE OF SADDLE LOCATION WITH CONCRETE ENCASEMENT PRIOR TO INSTALLING SLEEVE.

NOTES:

1. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
2. TEST PRESSURE SHALL NOT BE APPLIED FOR A MINIMUM OF 7 DAYS AFTER THRUST BLOCK PLACEMENT.
3. TAPPING SLEEVE & VALVE TO BE HYDROSTATICALLY TESTED AT 150 PSI FOR 15 MINUTES WITH ZERO PRESSURE LOSS.
4. TAPPING SLEEVES SHALL BE STAINLESS STEEL BODY, MECHANICAL JOINT, DESIGNED AND MANUFACTURED FOR A MINIMUM WORKING PRESSURE OF 250 PSI AND MEET AWWA STANDARDS.

5 | TAPPING SLEEVE AND VALVE | NTS

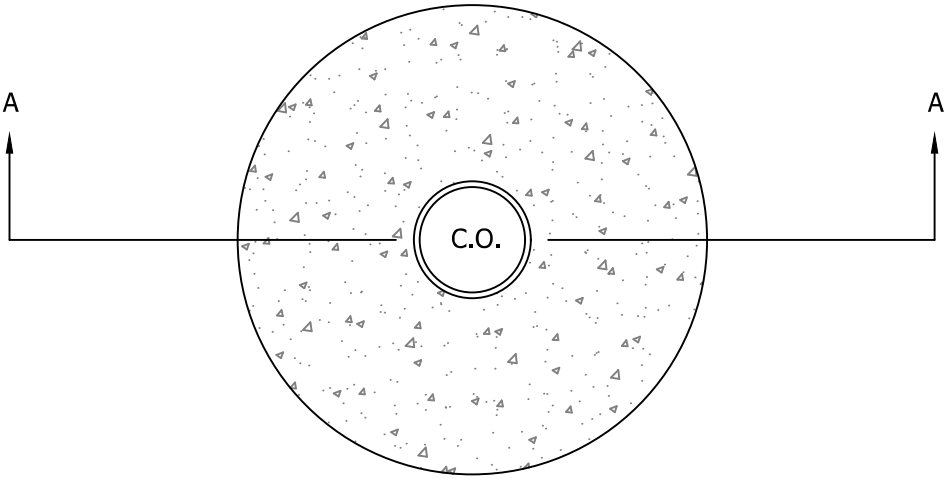
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	TAPPING SADDLE AND VALVE	STD. NO. 2000.17
	EFFECTIVE: March 2025		SHEET OF



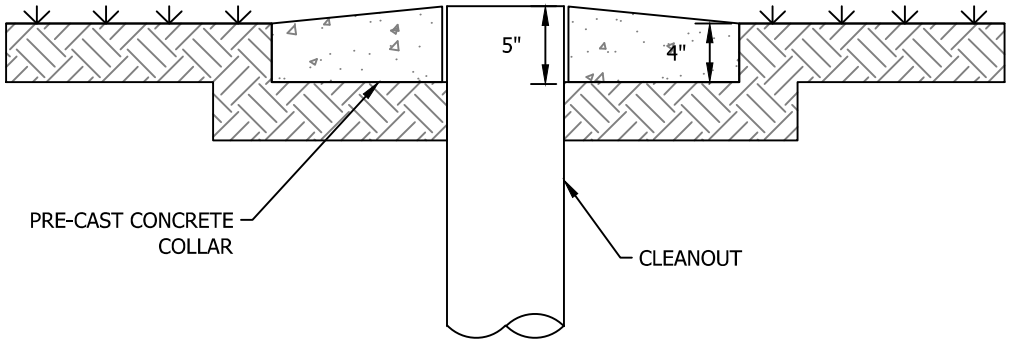
NOTES:

1. CLEAN-OUT PIPE AND FITTINGS SHALL BE THE SAME DIAMETER AND MATERIAL AS THE SERVICE LATERAL.
2. PROVIDE CLEAN-OUTS WHERE INDICATED ON THE PLANS.
3. D.I.P. CLEAN-OUTS SHALL HAVE BRONZE-THREADED CLEAN-OUT PLUG.
4. WHERE CLEAN-OUTS ARE INSTALLED ON PIPING UNDER PRESSURE, ALL JOINTS SHALL HAVE RETAINER GLANDS OR OTHER APPROVED METHOD OF RESTRAINT. ALL RISER PIPE, FITTINGS AND CLEAN-OUT PLUG SHALL BE WATERTIGHT AND RATED FOR THE PRESSURES PRESENT AT THE PARTICULAR POINT OF INSTALLATION.

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	SANITARY SEWER SERVICE LATERAL CLEANOUT	STD. NO. 3000.01
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE



PLAN



SECTION A-A

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	CLEANOUT PAD	STD. NO. 3000.02
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE

PRESSURE SEWER SERVICE NOTES:

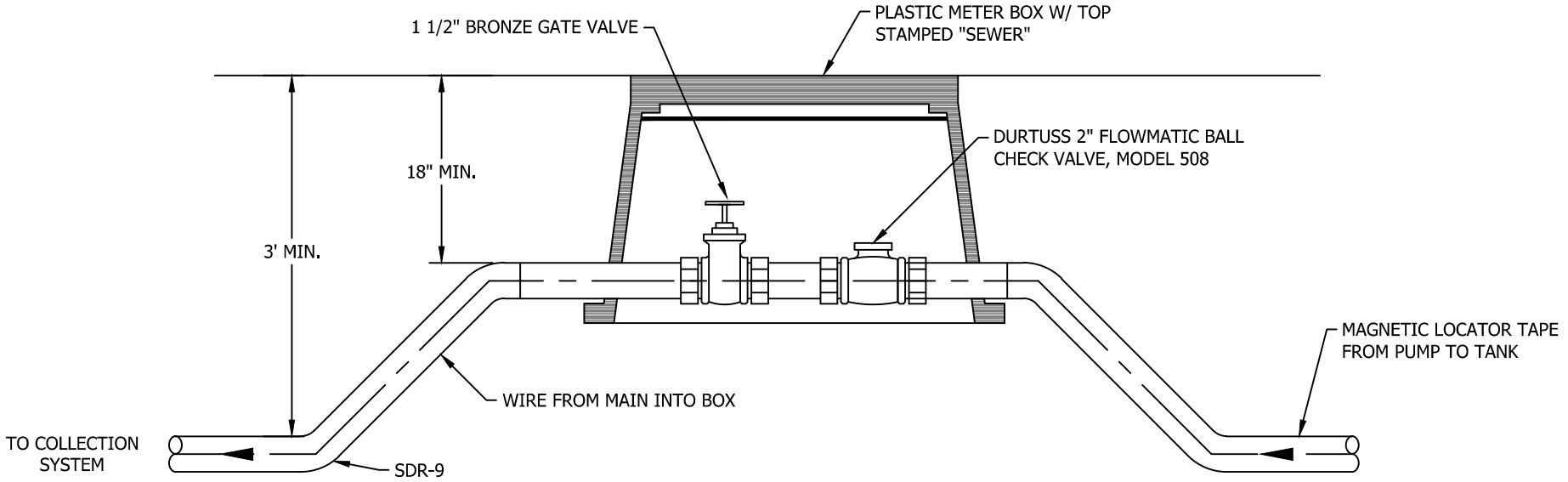
WET TAPPING: SERVICE SADDLES FOR WET TAPPING OF PRESSURE SEWER LINES SHALL BE FORD SERIES FS202, OR APPROVED EQUAL SADDLE WITH STAINLESS STEEL BAND. OUTLET THREADS SHALL BE IRON PIPE SIZE. VALVING MECHANISM SHALL BE FORD CORPORATION STOP SERIES FB500, OR APPROVED EQUAL CORPORATION STOP WITH INLET AND OUTLET BEING MALE IRON PIPE THREADS. CONNECTION BETWEEN THE CORPORATION STOP AND SERVICE LINE SHALL BE ACCOMPLISHED USING A SCH. 40 PVC IRON PIPE THREAD BY SLIP COUPLING. SERVICE LINE SHALL BE SDR-9 OR SCH. 40 PIPE. WHERE CONNECTION IS TO BE MADE TO 2" PRESSURE SEWER LINE, SAID CONNECTION MAY BE MADE BY CUTTING INTO THE LINE AND INSERTING A 2" SCH. 40 TEE IF SAID CONNECTION CAN BE MADE WHILE TAKING THE LINE OUT OF SERVICE FOR NO MORE THAN 15 MINUTES.

PROXIMITY TO WATER SUPPLY LINES:

WHERE SEWER SERVICES CROSS WATER SUPPLY LINES, THE SEWER SHALL BE INSTALLED A MINIMUM OF 18" BELOW THE WATER LINE. (CONVERSELY, WHERE WATER SERVICE LINES CROSS SEWER MAINS, THE WATER LINE SHALL BE INSTALLED A MINIMUM OF 18" ABOVE THE SEWER MAIN AS NOTED ON THE "WATER DISTRIBUTION SYSTEM DETAIL SHEET.)

SPECIAL NOTE:

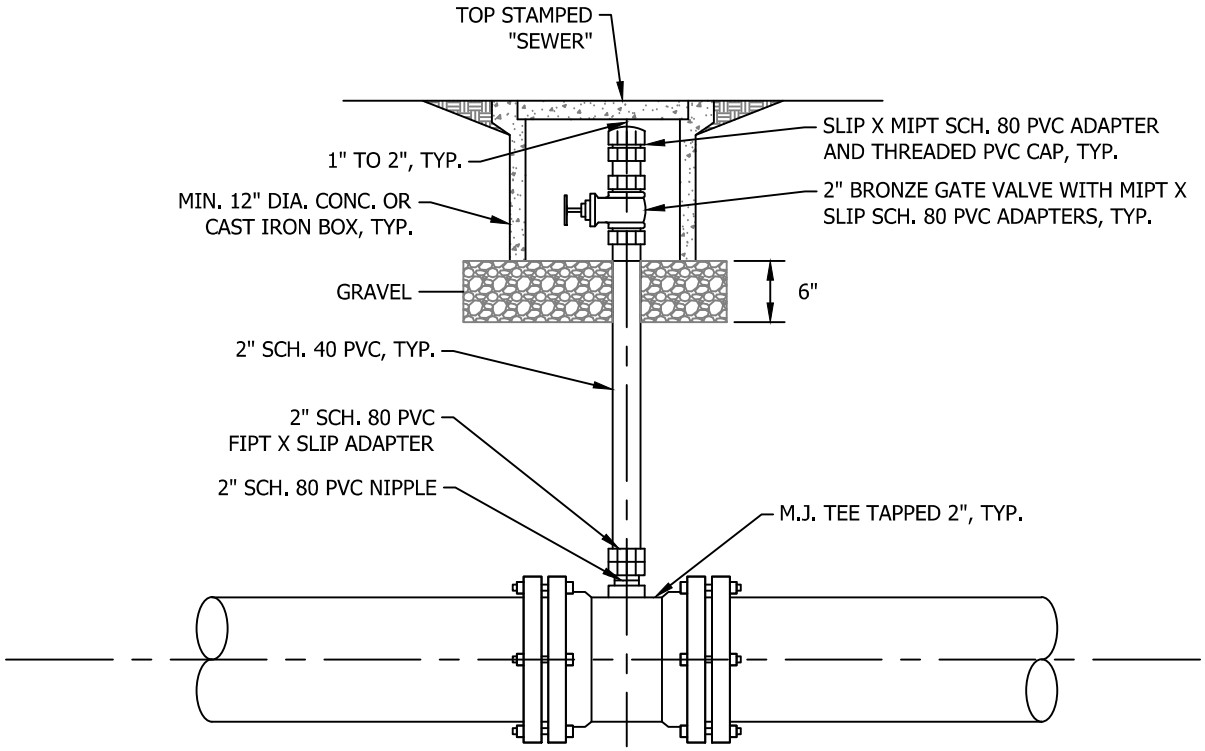
THE SERVICE FOR ANY PLATTED LOT SHALL BE INSTALLED AT THE TIME PRESSURE SEWER MAIN SERVING THE LOT IS CONSTRUCTED. WET TAPPING FOR SERVICES SHALL BE ALLOWED ONLY FOR AREAS WHERE LOTS WERE NOT PLATTED AT THE TIME ADJACENT SEWER MAINS WERE CONSTRUCTED. WHEN ANY SERVICE TAP IS MADE, THE VALVE BOX, GATE VALVE, AND METER BOX SHALL BE INSTALLED, AND THE SERVICE LINE SHALL BE CONTINUED AT LEAST TO THE RIGHT-OF-WAY LINE.



NOTE:

PIPE AND FITTINGS TO BE 1 1/2" SDR-9 OR SCH. 40 PVC UNLESS OTHERWISE NOTED. SCH. 80 PVC ADAPTERS SHALL BE PROVIDED AT EACH END OF VALVES.

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	SERVICE LINE VALVE BOX	STD. NO. 3000.03
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE



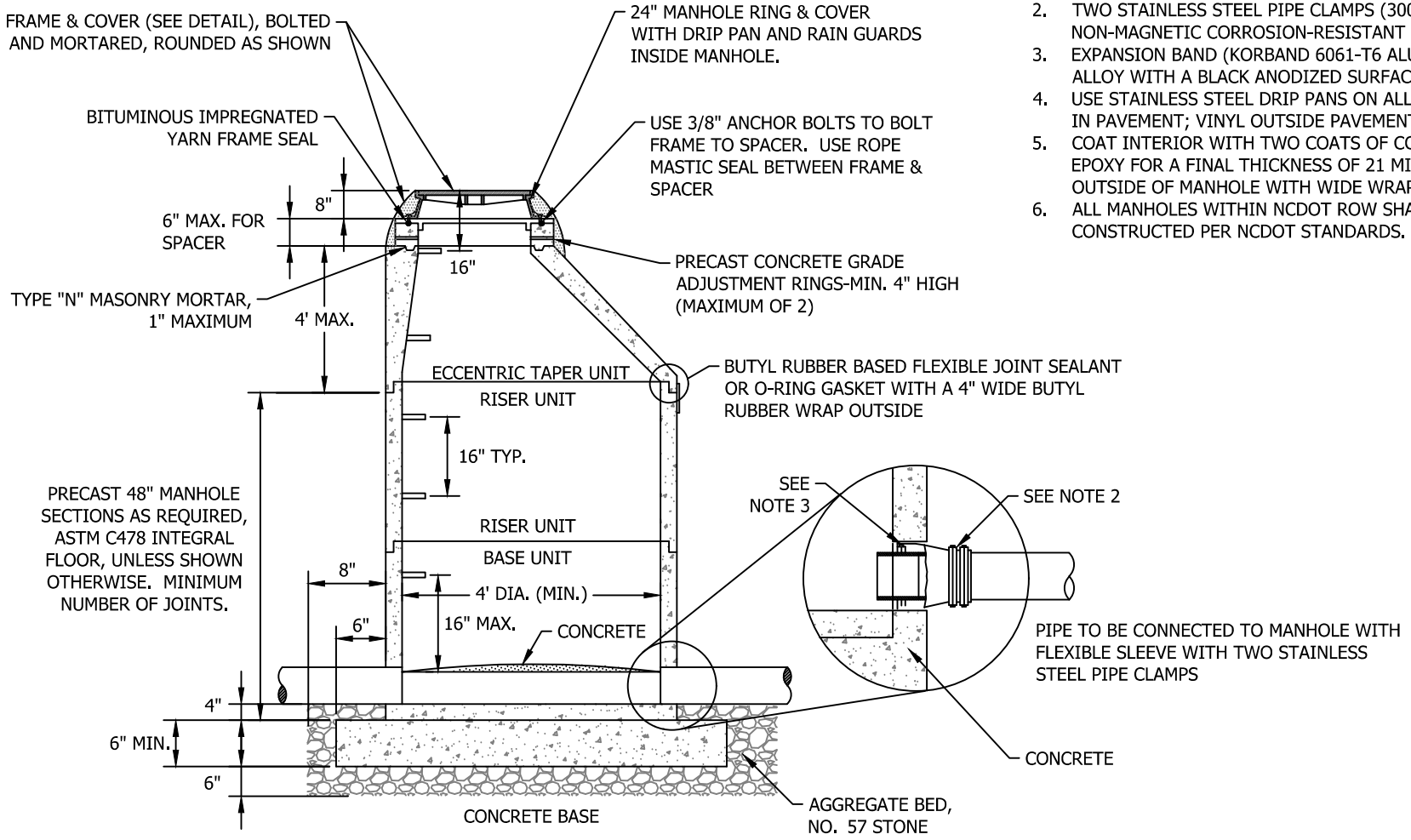
NOTES:

1. SLOPE FINISH GRADE TO DRAIN AWAY FROM BOX.
2. WHERE PRESSURE SEWER IS 3" OR LARGER TEE SHALL BE M.J. WITH 2" TAP. 2" SCH. 80 PVC TEE MAY BE USED FOR 2" PRESSURE SEWER.
3. IN LINE CLEANOUT SHALL BE LOCATED APPROXIMATELY 2' FROM ADJACENT GATE VALVE.

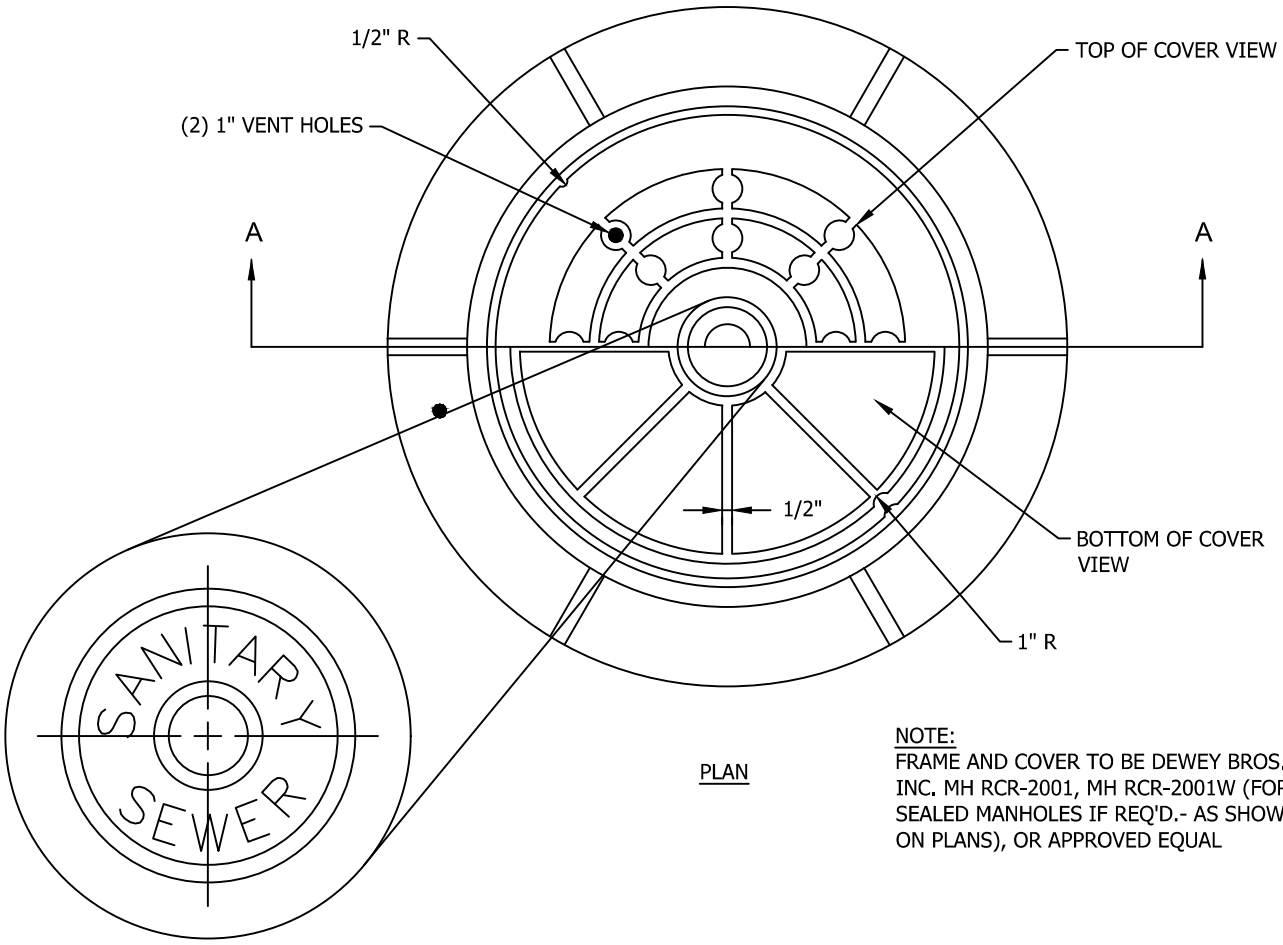
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	IN-LINE PRESSURE SEWER CLEANOUT	STD. NO. 3000.04 NOT TO SCALE

NOTES:

1. NEOPRENE BOOT, KOR-N-SEAL OR EQUAL, TO BE USED ON ALL PRECAST MANHOLES WITH ALL TYPES OF PIPES.
2. TWO STAINLESS STEEL PIPE CLAMPS (300-SERIES NON-MAGNETIC CORROSION-RESISTANT STEEL).
3. EXPANSION BAND (KORBAND 6061-T6 ALUMINUM ALLOY WITH A BLACK ANODIZED SURFACE
4. USE STAINLESS STEEL DRIP PANS ON ALL MANHOLES IN PAVEMENT; VINYL OUTSIDE PAVEMENT.
5. COAT INTERIOR WITH TWO COATS OF COAL TAR EPOXY FOR A FINAL THICKNESS OF 21 MILS. WRAP OUTSIDE OF MANHOLE WITH WIDE WRAP MASTIC.
6. ALL MANHOLES WITHIN NCDOT ROW SHALL BE CONSTRUCTED PER NCDOT STANDARDS.



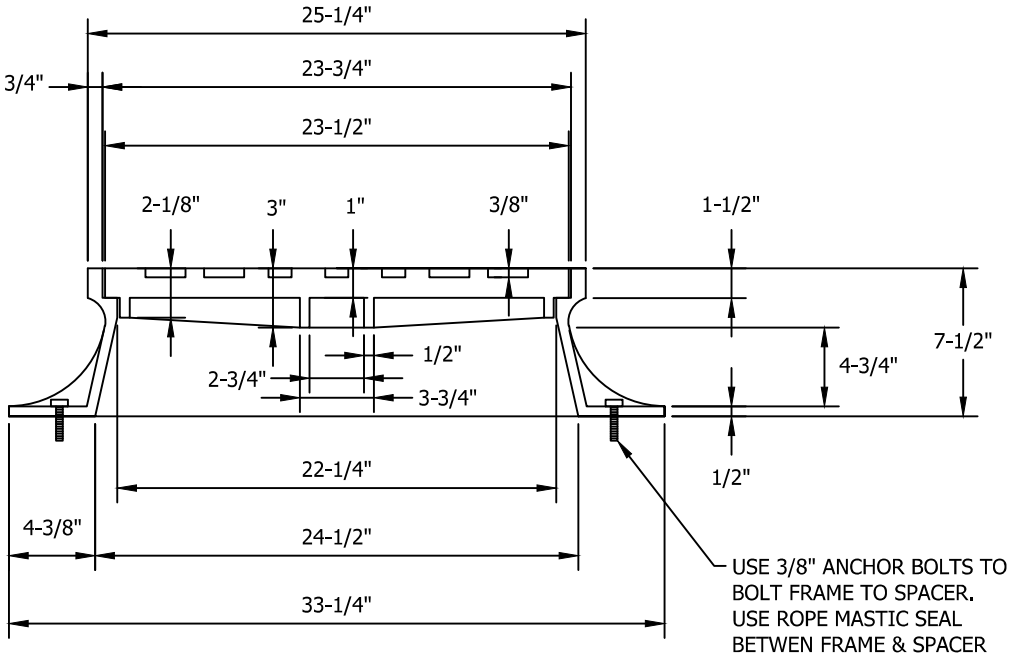
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	TYPICAL PRECAST MANHOLE	STD. NO. 3000.05
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE



PLAN

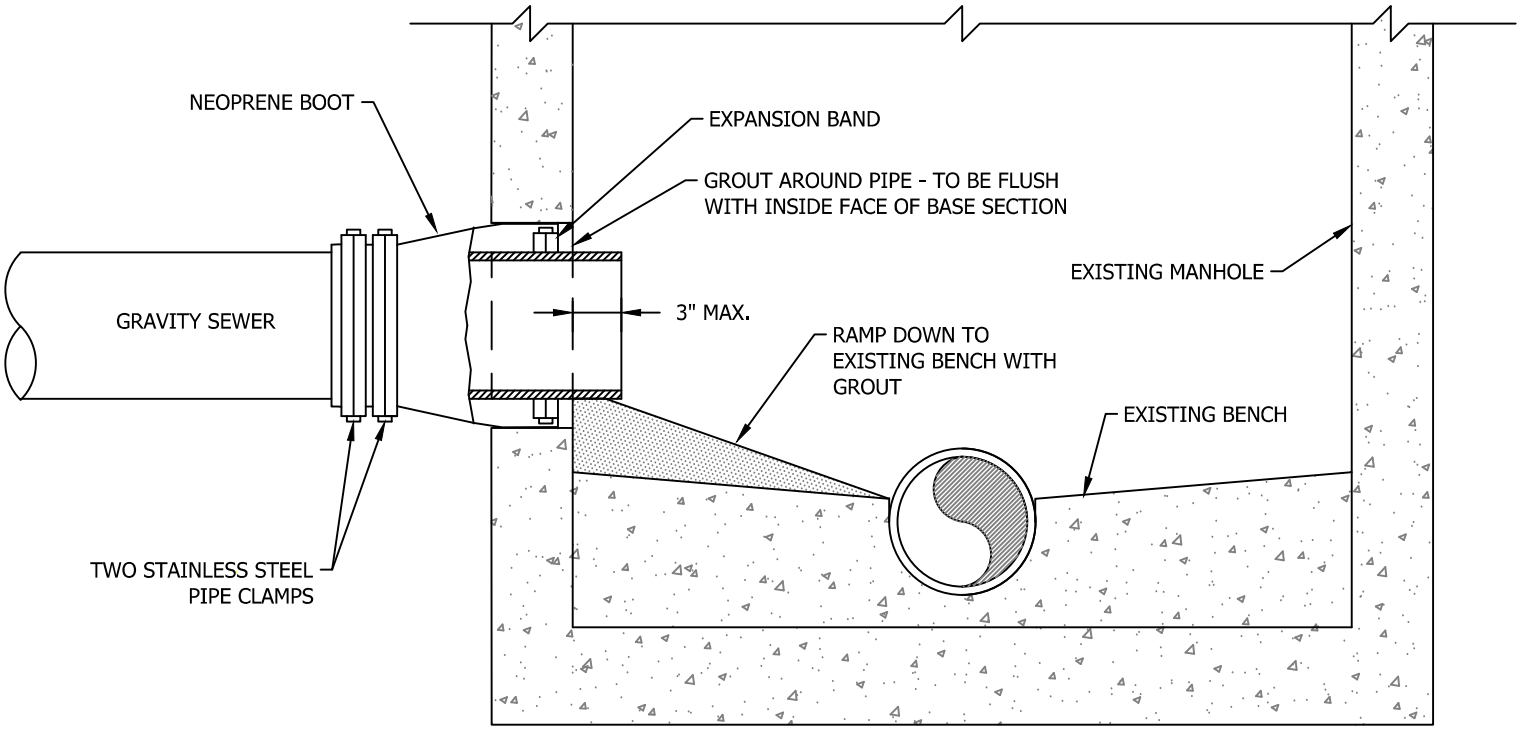
NOTE:
FRAME AND COVER TO BE DEWEY BROS., INC. MH RCR-2001, MH RCR-2001W (FOR SEALED MANHOLES IF REQ'D.- AS SHOWN ON PLANS), OR APPROVED EQUAL

DETAIL



SECTION A-A

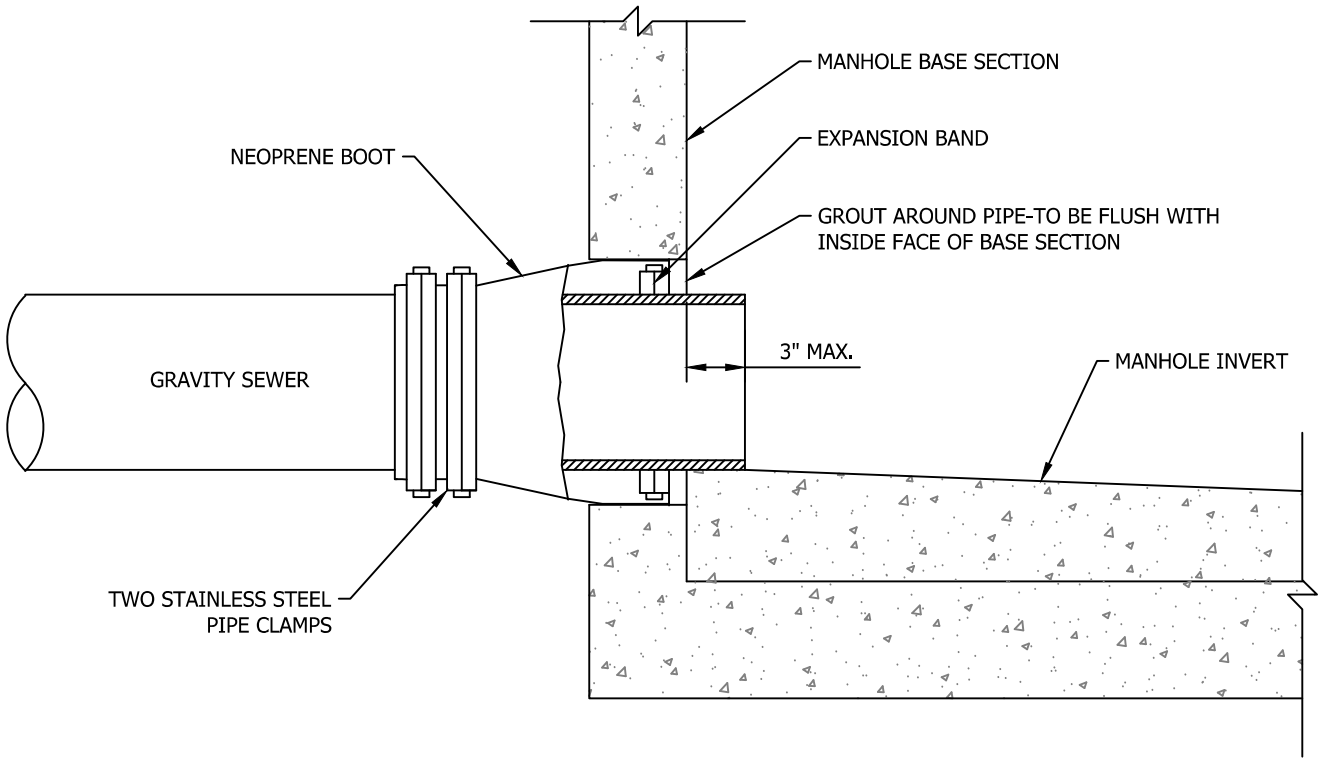
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	STANDARD MH FRAME AND COVER	STD. NO. 3000.06
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE



NOTES:

1. MATERIAL SPECIFICATIONS: NEOPRENE BOOT - ASTM C-923; PIPE CLAMP & EXPANSION CLAMP - STAINLESS STEEL, ASTM C-923.

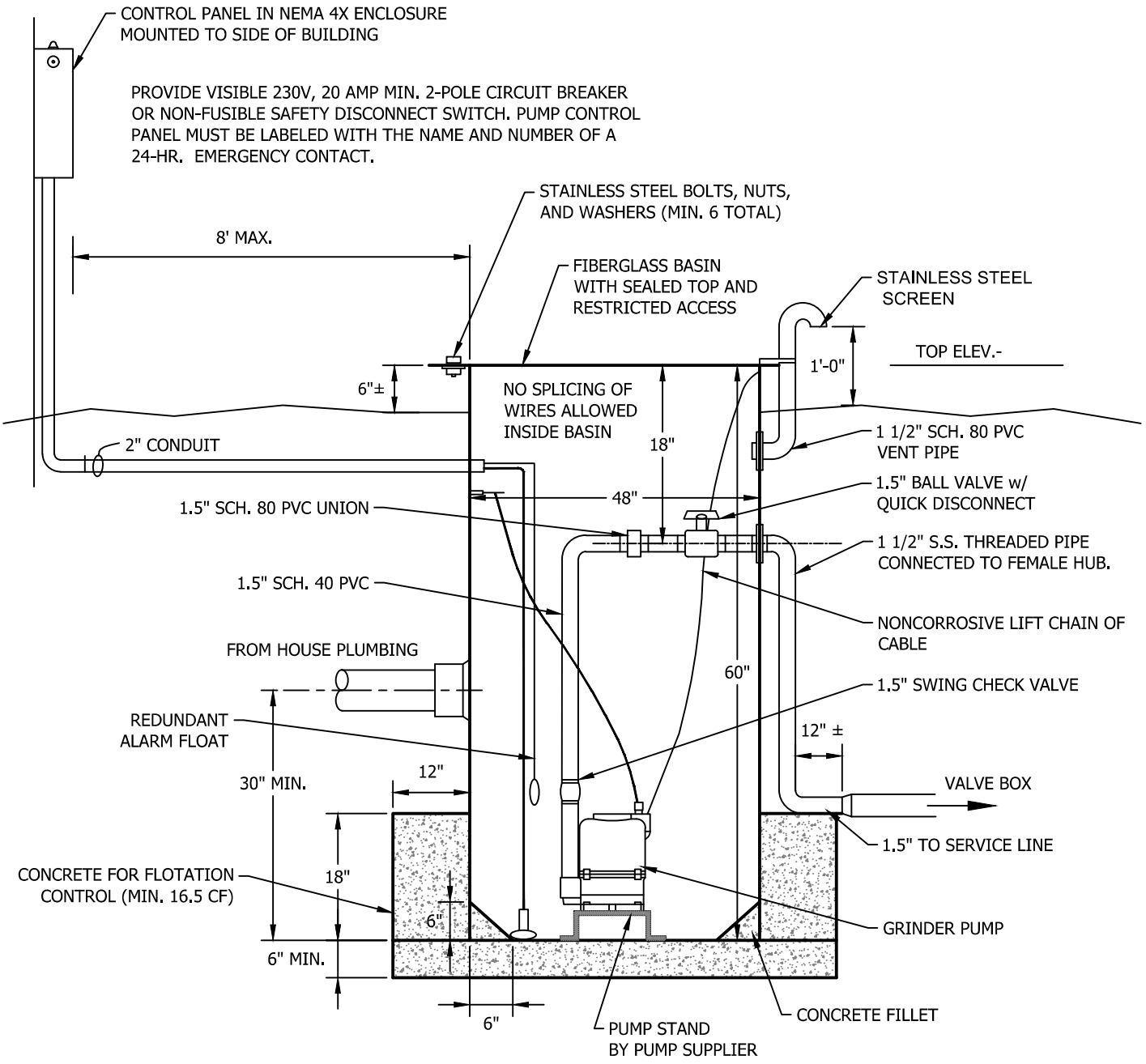
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	STANDARD SEWER LINE CONNECTION TO EXISTING MANHOLE	STD. NO. 3000.07 NOT TO SCALE



NOTES:

1. MATERIAL SPECIFICATIONS: NEOPRENE BOOT - ASTM C-923; PIPE CLAMP & EXPANSION CLAMP - STAINLESS STEEL, ASTM C-923.
2. TWO PIPE CLAMPS REQUIRED FOR PIPE O.D.'S 15" AND LARGER. TORQUE PER MANUFACTURER'S SPECIFICATIONS.
3. PIPE CLAMP (300-SERIES NON-MAGNETIC C0RR0SION-RESISTANT STEEL)

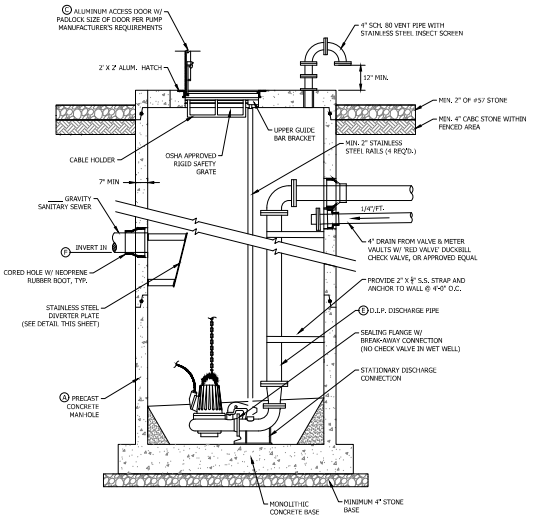
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	STANDARD MANHOLE BOOT	STD. NO. 3000.08 NOT TO SCALE



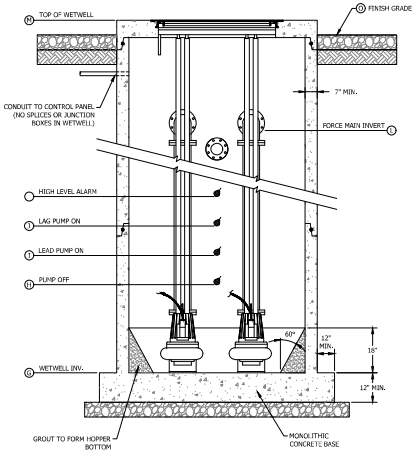
NOTE:

1. THE UNIT SHALL BE READILY ACCESSIBLE TO THE OWNER OR OWNER AGENT FOR EMERGENCY PURPOSES.
2. PUMP OFF LEVEL IS 12 INCHES FROM BOTTOM OF BASIN, PUMP ON LEVEL IS 20 INCHES FROM BOTTOM OF BASIN.
3. ALARM LEVEL IS 24' FROM THE BOTTOM OF THE BASIN.
4. A REDUNDANT ALARM FLOAT SHALL BE INCORPORATED INTO THE BASIN COMPONENTS.
5. TWO TYPES OF GRINDER PUMPS ARE CURRENTLY APPROVED FOR USE IN THE H2GO SERVICE AREA: COMPASS POINTE SERVICE AREA - ZOELLER E7020 PROGRESSING CAVITY GRINDER PUMP, SERVICE AREA OUTSIDE COMPASS POINTE - ZOELLER E7011 REVERSIBLE GRINDER PUMP.

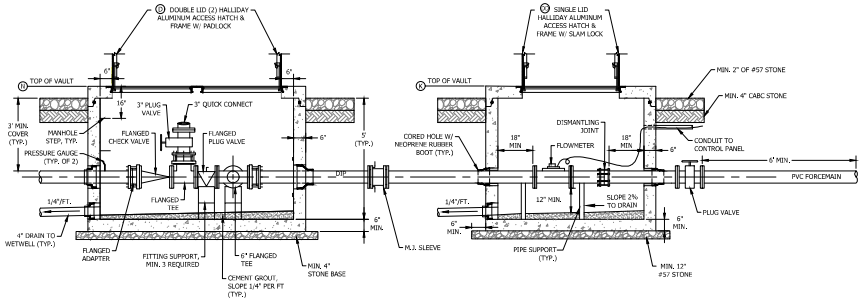
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	HOUSE PUMPING UNIT	STD. NO. 3000.09
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE



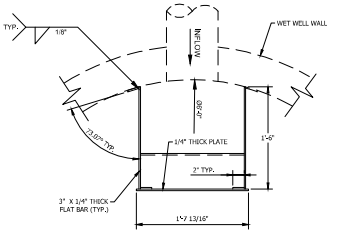
DUPLEX SUBMERSIBLE LIFT STATION - SECTION A-A



DUPLEX SUBMERSIBLE LIFT STATION - SECTION B-B

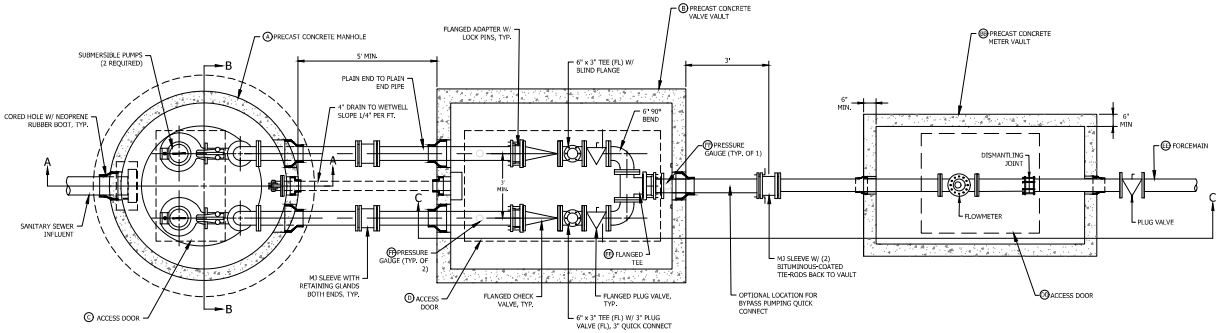


DUPLEX SUBMERSIBLE LIFT STATION - SECTION C-C

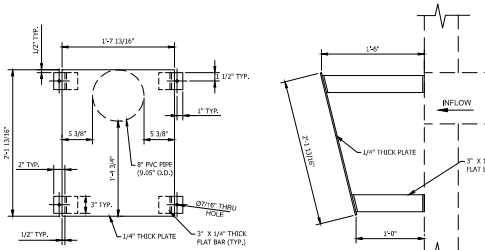


PLAN VIEW

SPECIFICATION:
1. PLATE ASTM A240, T316L, STAINLESS STEEL
2. FLAT BAR: ASTM A276, T316, STAINLESS STEEL
3. LINING/COATING: RAW
4. QUANTITY: 2 EACH



DUPLEX SUBMERSIBLE LIFT STATION - PLAN



FRONT VIEW

SIDE VIEW

DIVERTER PLATE

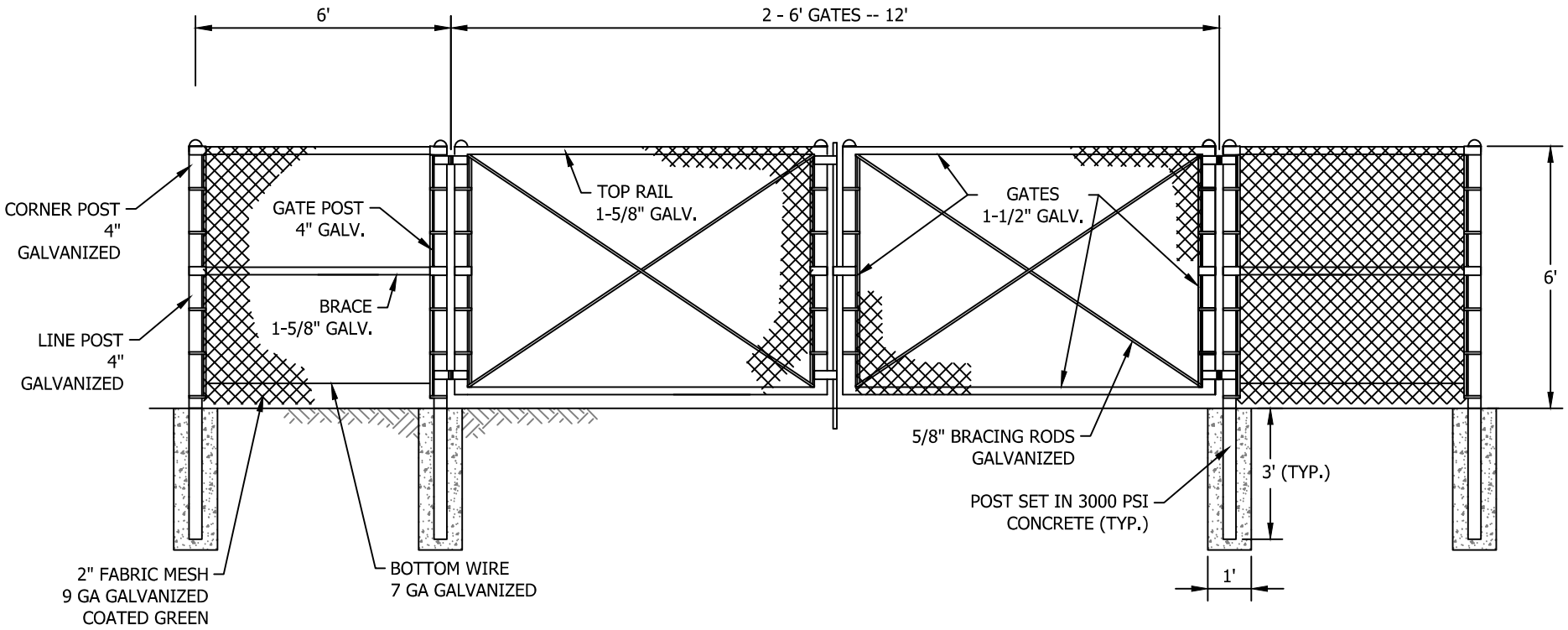
DIMENSION SCHEDULE							
A (DIA)	B (WxL)	BB (WxL)	C (WxL)	D (WxL)	DD (WxL)	E (DIA)	EE (DIA)
____	_____	_____	_____	_____	_____	_____	_____

ELEVATION SCHEDULE (FT)										
F	G	H	I	J	K	L	M	N	O	
___	___	___	___	___	___	___	___	___	___	

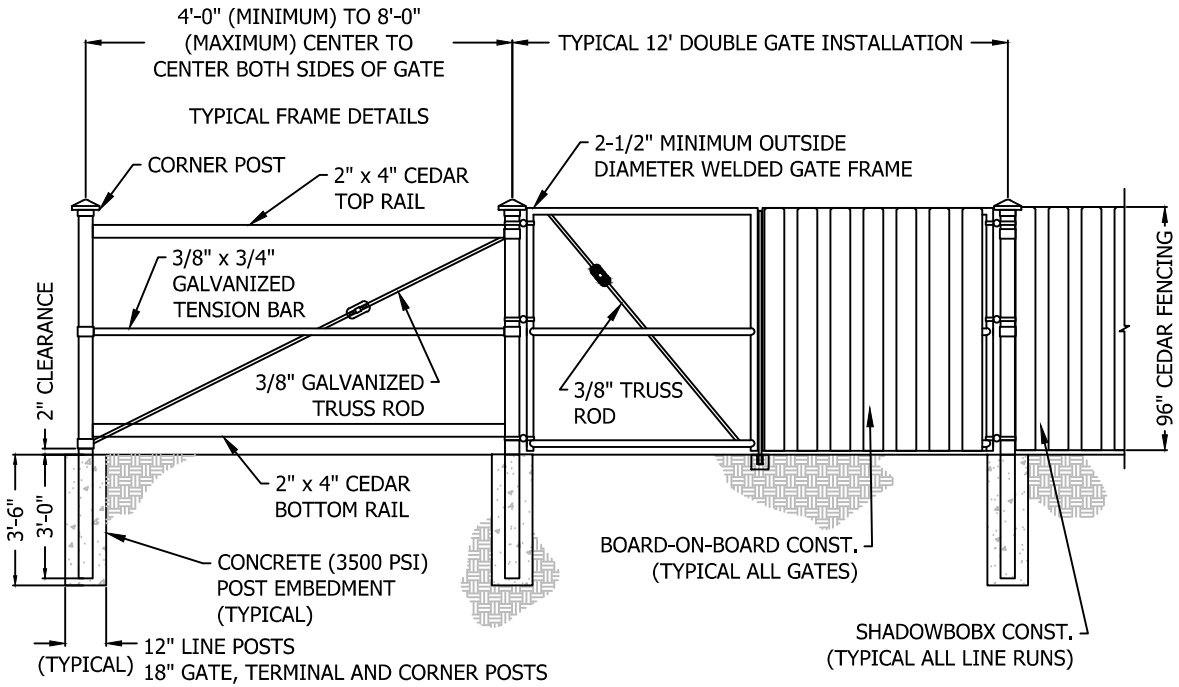
PUMP SCHEDULE					
PUMP STATION NUMBER	PUMP DISCHARGE DIAMETER	DESIGN CAPACITY (GPM)	DESIGN TDH (FT.)	HP	VOLTAGE PHASE
____	____	_____	___	___	_____

GENERAL NOTES

1. A DENOTES A PUMP STATION DIMENSION/SIZE OR ELEVATION - SEE SCHEDULE.
2. ALL PUMP STATION PIPING IS FLANGED-END TO PLAIN-END D.I.P., UNLESS NOTED OTHERWISE.
3. ALL FITTINGS INSIDE WET WELL, VALVE VAULT & METER VAULT TO BE FLANGED AND BITUMINOUS COATED, MINIMUM 1 MIL. THICK.
4. ALL PIPE OPENINGS IN WET WELL, VALVE VAULT & METER VAULT TO BE CORED AND FITTED WITH NEOPRENE RUBBER BOOTS.
5. VALVE VAULT & METER VAULT PIPING SHALL BE SUPPORTED WITH STEEL SUPPORTS AT A MINIMUM OF 3 POINTS.
6. INSTALL A 1/4" TAP AND TEST COCK ON PIPING WITHIN VALVE VAULT.
7. P DENOTES A DESIGN OPTION FOR BRWS H2GO- CONFIRM LOCATION AND QUANTITY OF PRESSURE GAUGES AND NEED FOR PRESSURE TRANSMITTERS PRIOR TO FINALIZING DESIGN. DIRECT TAPS WILL NOT BE ALLOWED. PROVIDE TAPPING SADDLES AND STAINLESS STEEL COMPONENTS.

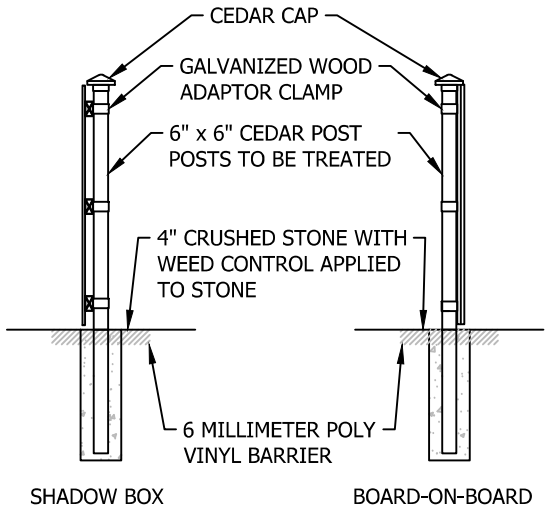


H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	CHAINLINK FENCE	STD. NO. 3000.11
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE



ELEVATION

NO SCALE

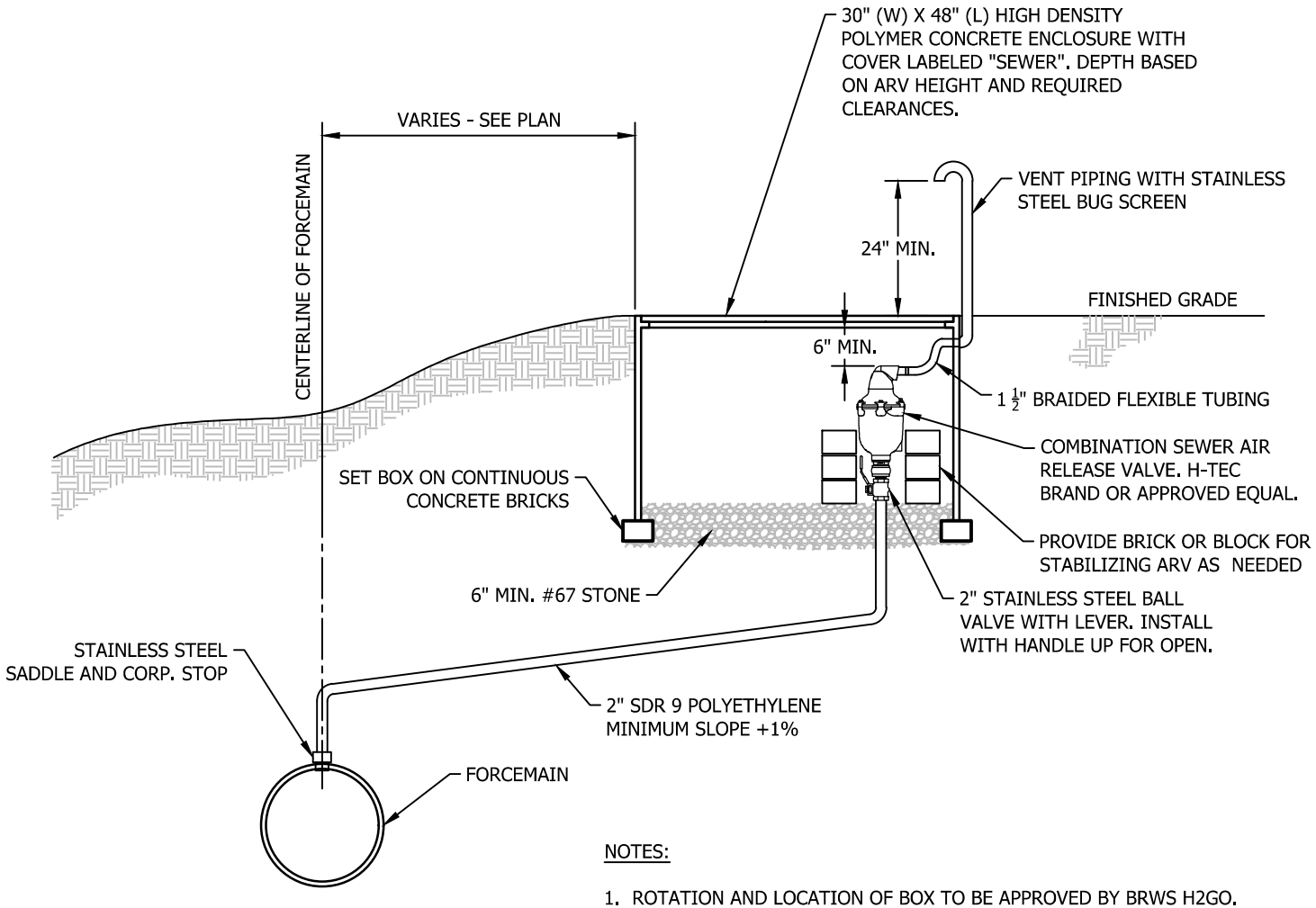


SECTIONS

NOTE:

1. ALL CEDAR FENCES SHOULD BE MAINTAINED BY THE HOMEOWNERS ASSOCIATIONS.
2. ALL LANDSCAPING TO BE MAINTAINED BY ASSOCIATION AND NOT H2GO STAFF. IF IT CANNOT BE AGREED UPON, NO LANDSCAPING SHOULD BE INSTALLED.

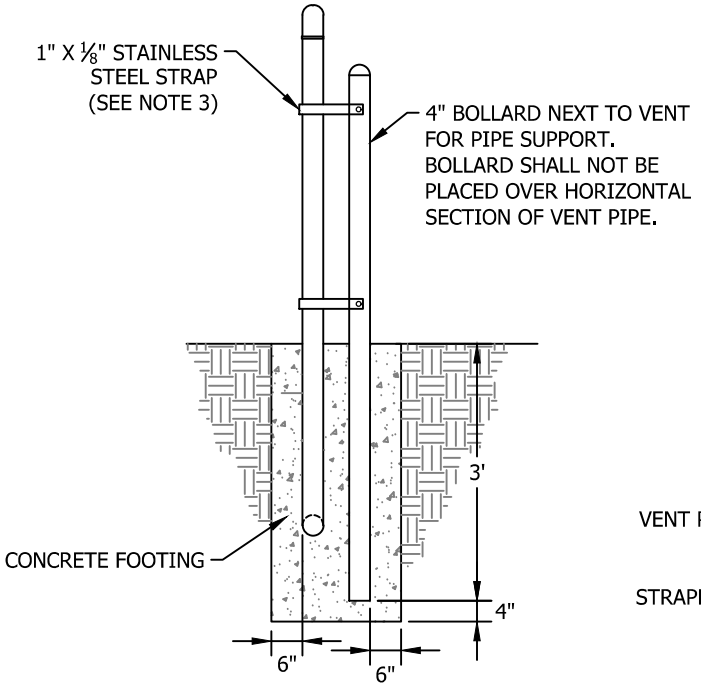
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	CEDAR FENCE	STD. NO. 3000.12
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE



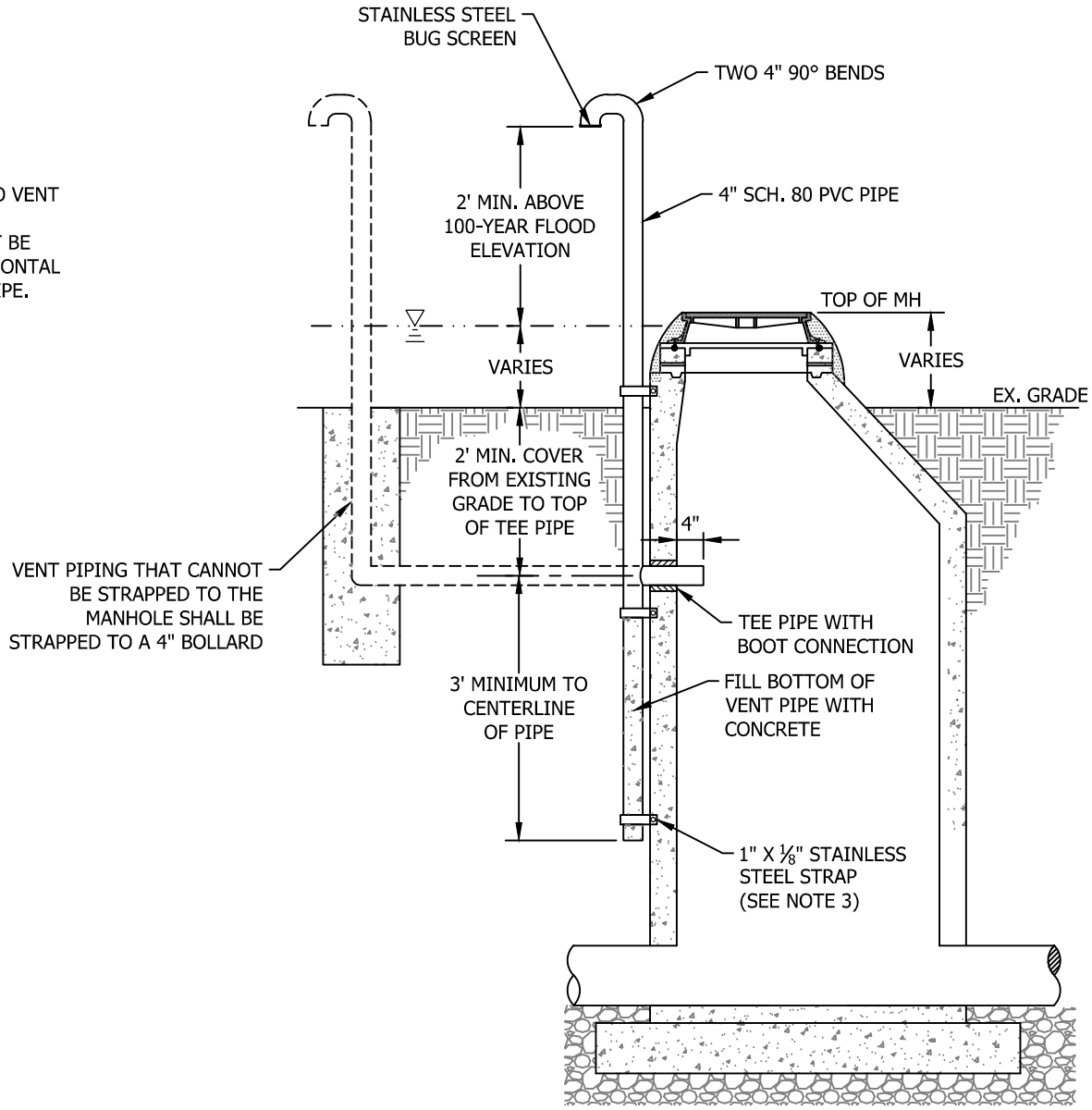
NOTES:

1. ROTATION AND LOCATION OF BOX TO BE APPROVED BY BRWS H2GO.
2. ARV ASSEMBLIES INSTALLED IN ROAD RIGHT-OF-WAY MUST BE FLUSH WITH EXISTING SHOULDER GRADE.
3. ARV ASSEMBLY SHOULD BE OFFSET TO ONE SIDE OF BOX AS SHOWN TO ALLOW EASIER ACCESS FOR OPERATION AND MAINTENANCE.
4. 2" STAINLESS STEEL NIPPLES AND COUPLINGS SHALL BE USED IF NEEDED.

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	OFFSET COMBINATION SEWER AIR RELEASE VALVE	STD. NO. 3000.13 NOT TO SCALE



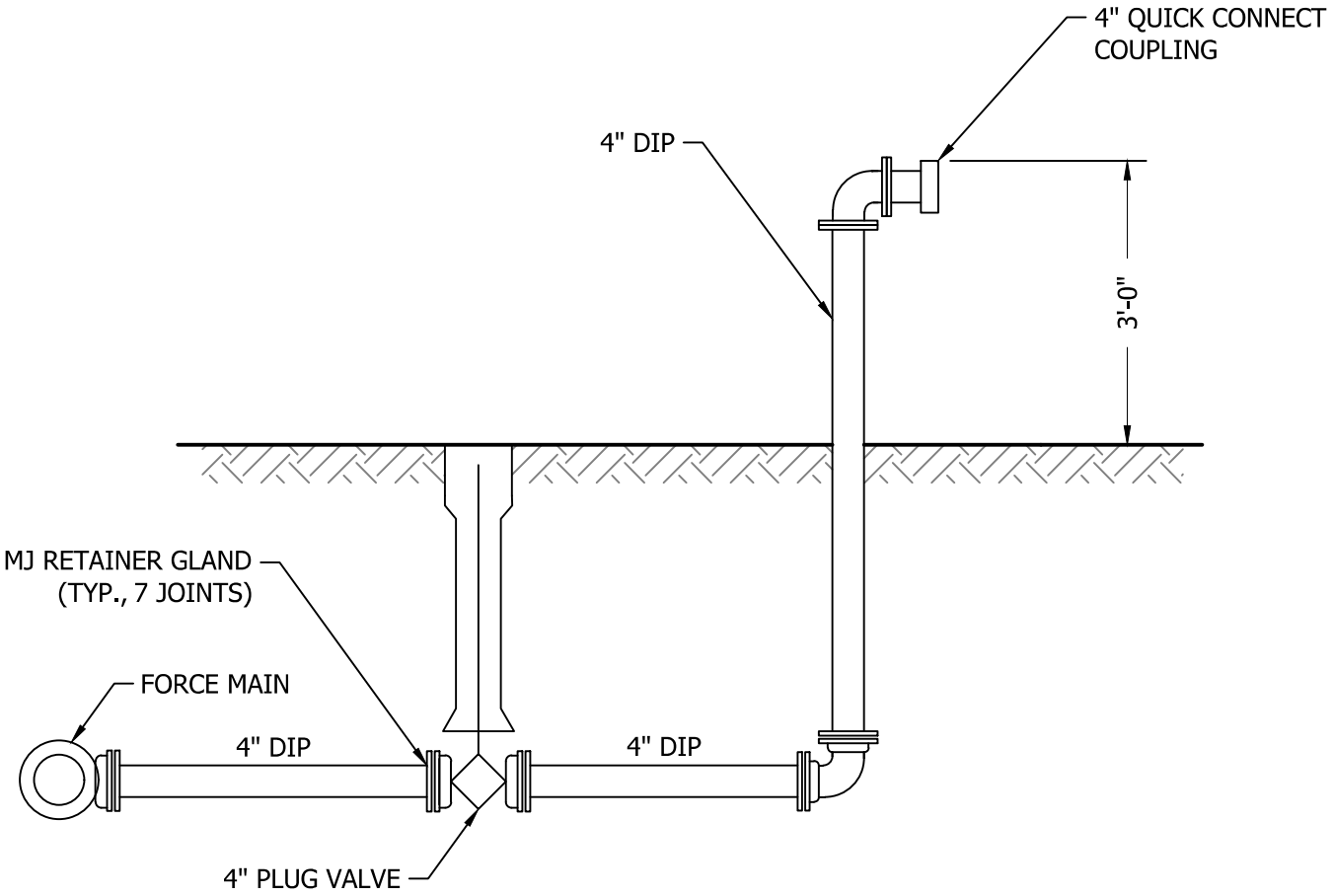
BOLLARD SUPPORT



NOTES:

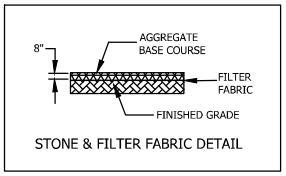
1. VENT PIPE OPENING IN PRECAST CONCRETE MANHOLE WALL SHALL BE CORED WITH A CONCRETE CORING MACHINE.
2. LOCATION OF VENT PIPE SHALL BE AS DIRECTED BY BRWS H2GO. VENTED MANHOLE SHALL HAVE WATERTIGHT RING AND COVER WITH VENT OPENING LOCATED AT LEAST 24 INCHES ABOVE THE 100-YEAR FLOOD PLAIN ELEVATION.
3. STRAP SPACING SHALL BE ONE EVERY 3 FEET WITH A MINIMUM OF 2 REQUIRED.
4. NEOPRENE BOOT, KOR-N-SEAL OR EQUAL, TO BE USED ON ALL PRECAST MANHOLES WITH ALL TYPES OF PIPES.

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	MANHOLE VENT	STD. NO. 3000.14 NOT TO SCALE



H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	BYPASS PUMPING CONNECTION	STD. NO. 3000.15 NOT TO SCALE

PUMP STATION COMPONENTS	
A	WET WELL
B	WET WELL
C	METERING VAULT - 6'X6'X6' MIN. (SEE NOTE 12& 19)
D	CONTROL PANEL (SEE DETAIL SHEET 3)
E	GENERATOR PAD AND STANDBY GENERATOR
F	AREA LIGHT ON POLE
G	ANTENNA PAD (SEE NOTE 9)
H	ODOR CONTROL PAD AND UNIT (SEE NOTE 15 & 18)
I	5' DIAMETER RECEIVING MANHOLE
J	EMERGENCY PUMP OUT
K	8" ABC (SEE DETAIL THIS SHEET)
L	INFLUENT SANITARY SEWER LINE
M	APPROVED BACKFLOW PREVENTION ON DEVICE
N	6" VENT
O	JUNCTION BOX RACK ASSEMBLY (SEE DETAIL)
P	¾" IRRIGATION METER
Q	1" WATER SERVICE TO ODOR CONTROL UNIT
R	1" WATER SERVICE TO YARD HYDRANT
S	1" WATER SERVICE OF YARD HYDRANT
T	VENT PIPE TO ODOR CONTROL UNIT (SEE NOTE 15)
U	16' ALL-WEATHER GRAVEL DRIVE (SEE NOTE 5)
V	CHAIN LINK FENCE (SEE DETAIL)
W	DOUBLE SWING GATES 2 & 7', TOTAL OPENING 14' (SEE DETAIL)

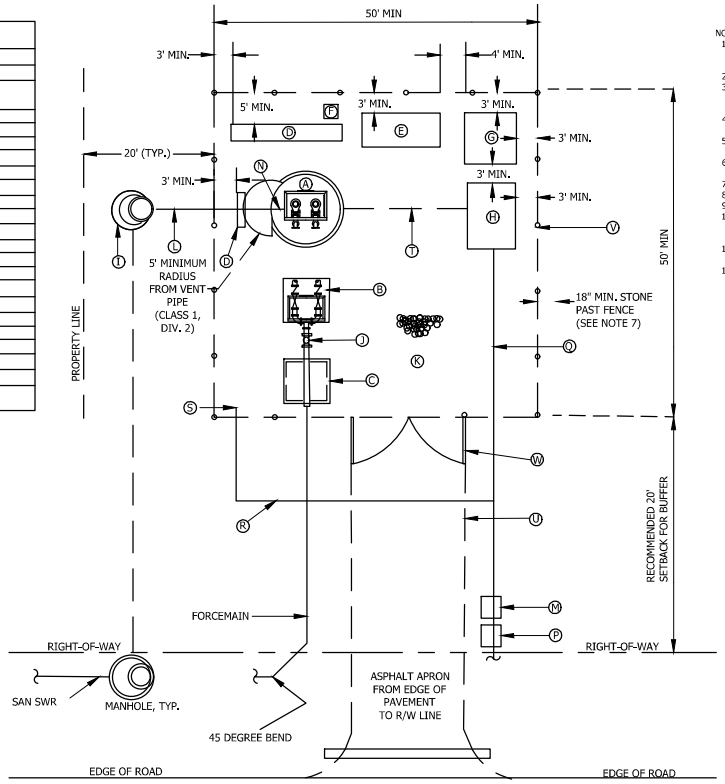


STONE & FILTER FABRIC DETAIL

	REQUIRED	NOT REQUIRED
ODOR CONTROL UNIT		
METERING VAULT		

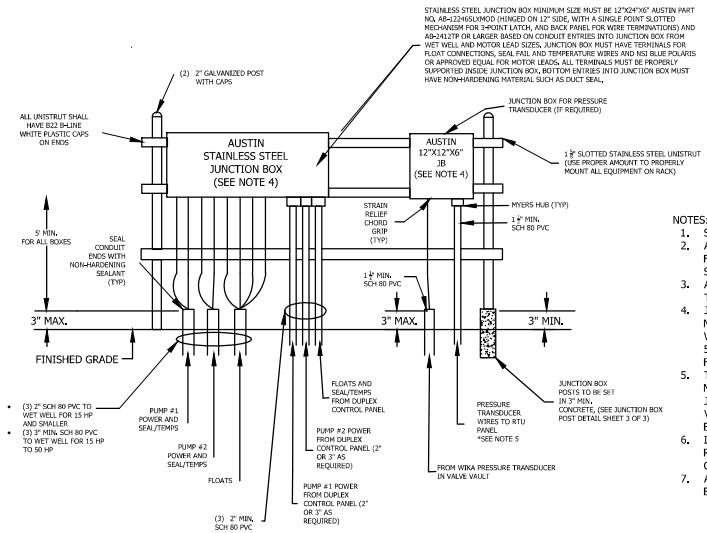
NOT FOR ALL PUMP STATIONS

THE ODOR CONTROL SLAB, VENT PIPING FROM WETWELL, WATER SERVICE, AND ELECTRICAL CONDUIT FROM BUILDING OR ELECTRICAL RACK IS REQUIRED EVEN IF THE ODOR CONTROL UNIT IS NOT.



PUMP STATION SITE DETAIL
50 HP OR SMALLER PUMP STATION

NOTES:
1. NEW WET WELLS AND NEW RECEIVING MANHOLES ARE TO BE POLYCRETE PER TECHNICAL SPECIFICATION 023.01. EXISTING WET WELLS INTERIOR TO RECEIVE MIN 120 MILS RAVEN 405 HIGH SOLIDS EPOXY OR APPROVED EQUAL.
2. WET WELL VENT OUTLET TO HAVE ODORHOG CHARCOAL FILTER OR APPROVED EQUAL.
3. THE PUMP STATION SITE SHALL BE A MINIMUM OF 50 FEET BY 50 FEET. THE PLAN HEREIN SHOWS A RECOMMENDED 20 FOOT BUFFER FROM THE PROPERTY LINE TO THE FENCED AREA. SEE APPLICABLE JURISDICTION'S ZONING ORDINANCE FOR REQUIRED BUFFERS.
4. THE PUMP STATION SITE SHALL BE GRADED TO PROMOTE POSITIVE DRAINAGE AWAY FROM THE WET WELL. NO STORM DRAINAGE SHALL ENTER PUMP STATION SITE.
5. THE ACCESS ROAD SHALL BE ABC STONE AT A MINIMUM OF 8" THICK. THE ROAD SHALL BE A MINIMUM OF 12" WIDE.
6. THE ACCESS ROAD AND ENTIRE AREA WITHIN PUMP STATION SHALL BE A MINIMUM OF 2 FEET ABOVE THE 100 YEAR METER SURFACE ELEVATION.
7. THE PUMP STATION SHALL HAVE STONE EXTENDING 18" PAST THE FENCE LINE IN ALL DIRECTIONS
8. THE PUMP CONTROL PANEL MUST BE INSTALLED SUCH THAT IT FACES THE WET WELL.
9. SEE ROHN ANTENNA DETAIL SHEET FOR ANTENNA DETAILS.
10. VALVE VAULT MINIMUM SIZE IS 6'X6'X6'. ACTUAL REQUIRED MINIMUM SIZE DEPENDS ON ACTUAL DISCHARGE PIPING SIZES. ALL PIPING CONNECTIONS INSIDE VALVE VAULT SHALL BE EASILY ACCESSIBLE FOR MAINTENANCE AND REPAIR.
11. NUT OPERATED PLUG VALVES IN VAULT MUST BE POSITIONED SO THAT THEY CAN BE OPERATED FROM ABOVE THE VAULT THROUGH THE HATCH WITH A STANDARD VALVE WRENCH
12. IF REQUIRED, METERING VAULT MINIMUM SIZE IS 6'X6'X6'. ACTUAL REQUIRED MINIMUM SIZE DEPENDS ON ACTUAL DISCHARGE PIPING SIZES. ALL PIPING CONNECTIONS INSIDE METERING VAULT SHALL BE EASILY ACCESSIBLE FOR MAINTENANCE AND REPAIR. IF A METERING VAULT IS REQUIRED, A SEPARATE METERING ENCLOSURE WILL BE REQUIRED. A DRAIN LINE WITH BACK FLOW TO THE WET WELL IS REQUIRED.
13. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ELECTRIC POWER COMPANY FOR PLACEMENT OF POWER COMPANY EQUIPMENT AND ANY REQUIRED CONCRETE SLABS, CONDUIT, ETC., NEEDED TO SERVE PUMP STATION. ELECTRIC COMPANY EQUIPMENT PLACEMENT SHALL NOT OBSTRUCT ACCESS DRIVE, GATES, GRAVITY SEWER MAIN, MANHOLES, DISCHARGE FORCE MAIN, OR ANY OTHER PUMP STATION EQUIPMENT.
14. IF APPLICABLE, ODOR CONTROL, UNIT REQUIREMENTS:
    A)CONCRETE SLAB- 10'X8'X2'. TO BE INSTALLED SO THAT 12" OF SLAB ARE ABOVE FINISHED GRADE
    B) INLET PIPE FROM WET WELL - 8"PVC MINIMUM
    C) CORE AND BOOT WET WELL FOR 8" PVC VENT PIPE TO ODOR CONTROL UNIT.
    D) SIEMENS WATER TECHNOLOGIES, ZABOCS MODEL [illegible] - CONTACT BRUNSWICK COUNTY PUBLIC UTILITIES FOR DETAILS
    E) ELECTRICAL POWER TO UNIT IS REQUIRED FROM ELECTRICAL RACK.
    F) WET WELL VENT IS CAPPED IF ODOR CONTROL UNIT IS UTILIZED.
15. ALL PUMP STATION WORK BY CONTRACTOR SHALL BE OF ADEQUATE QUALITY AND WORKMANSHIP FOR ACCEPTANCE BY BRUNSWICK COUNTY.
16. GENERATOR TO HAVE ENGINE EXHAUST SILENCER, WEATHER PROTECTIVE ENCLOSURE, AND SOUND ATTENUATION. REFER TO STANDBY EMERGENCY GENERATOR TECHNICAL SPECIFICATIONS FOR FURTHER DETAILS.
17. ODOR CONTROL - SEE 'NOTE FOR ALL PUMP STATIONS' THIS SHEET.
18. IF BRUNSWICK COUNTY REQUIRES A FLOW METER (METER VAULT IS SHOWN), A METERING ENCLOSURE WILL BE REQUIRED, A 1.5" MIN. SCH. 80 PVC CONDUIT FROM THE METER VAULT TO THE METERING ENCLOSURE WILL ALSO BE REQUIRED.
19. PROVIDE A MINIMUM OF 3 (THREE), 10' LONG, ¾" DIAMETER, COPPER CLAD GROUND RODS SPACED A MINIMUM OF 20' APART, BONDED TOGETHER WITH INSPECTION WELLS AT EACH CONNECTION PER COUNTY DETAIL. ONE GROUND ROD AT:
    A)ANTENNA TOWER
    B)ELECTRIC METER
    C) GENERATOR
20. CONTRACTOR RESPONSIBLE FOR ALL BUILDING AND ELECTRICAL PERMITS NEEDED, INCLUDING SITE SPECIFIC ENGINEERED PLANS FOR GENERATOR PAD FOUNDATION.



ELECTRICAL JUNCTION BOX DETAIL

NOTES:
1. SIZE CONDUIT AS REQUIRED.
2. ALL PVC CONDUIT STUBS TO BE FILLED WITH NON-HARDENING DUCT SEALANT.
3. ALL CONDUITS SHALL BE INSTALLED TO HAVE A MINIMUM 18" COVER.
4. JUNCTION BOXES MUST BE A MINIMUM OF 5' HORIZONTAL FROM WET WELL VENT AND A MINIMUM OF 5' ABOVE CONDUIT TERMINATIONS FROM WET WELL AS SHOWN.
5. THE PRESSURE TRANSDUCER CORD MUST PASS THROUGH THE 12"X12"X6" JUNCTION BOX UNSPLICED FROM VALVE VAULT TO RTU PANEL - NO EXCEPTIONS.
6. IF A DISCHARGE FLOW METER IS REQUIRED SEE FLOW METER NOTE ON SHEET 4.
7. ALL DISSIMILAR MATERIALS SHOULD BE INSULATED

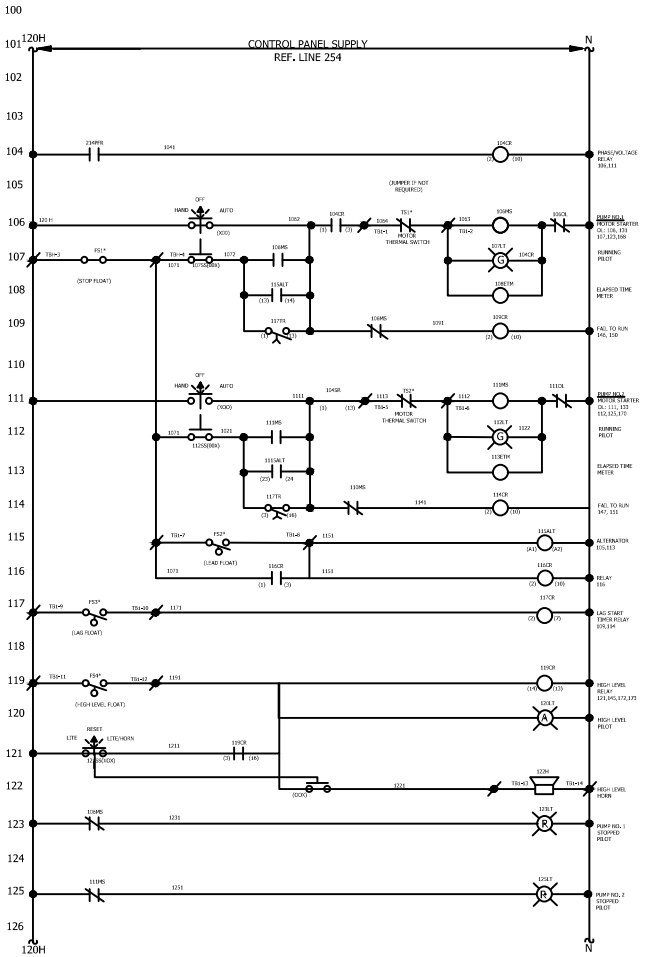
BRUNSWICK REGIONAL WATER AND SEWER H2GO

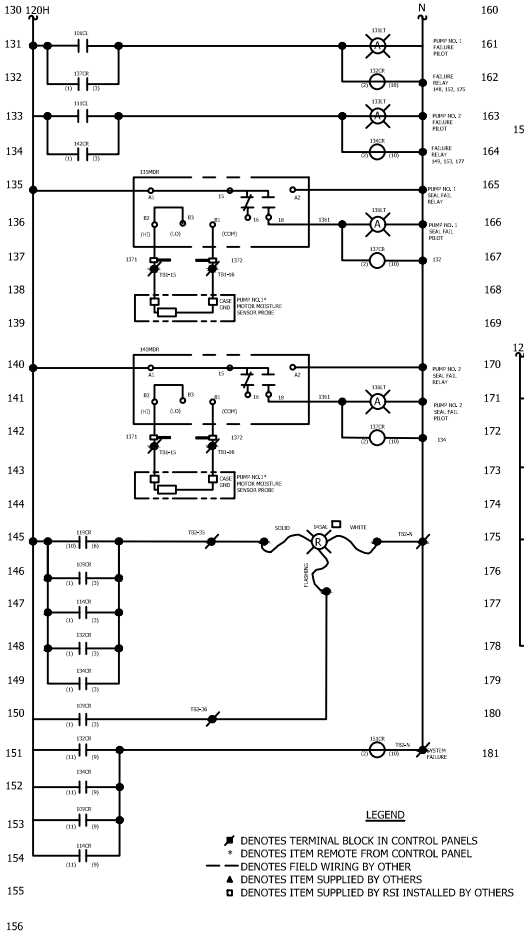
EFFECTIVE: OCTOBER 2024

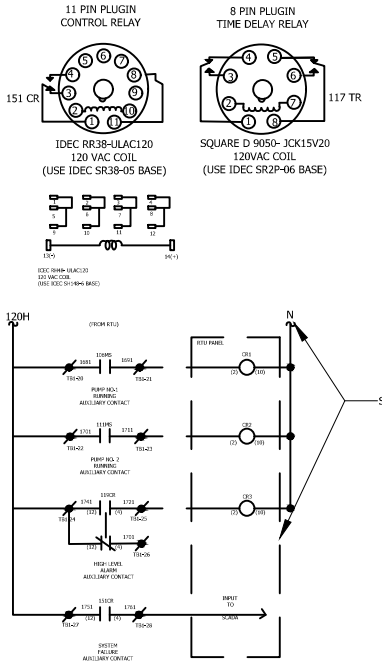
PUMP STATION ELECTRICAL SITE & JUNCTION BOX DETAIL

STD. NO. 3000.16

SHEET 1 OF 1



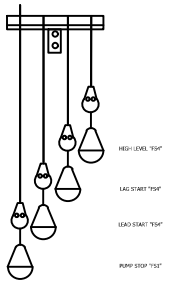




1-50 HP PUMP STATION
ELECTRICAL DIAGRAMS

FLOAT DETAIL

FOR ILLUSTRATION ONLY



NOTES:
1. CONTROL CIRCUITRY SHOWN IS FOR A NON-FLYGT PUMP - DESIGN ENGINEER SHALL SUBMIT ELECTRICAL DRAWINGS FOR A FLYGT PUMP FOR BRUNSWICK COUNTY ENGINEERING AND UTILITIES DEPARTMENTS REVIEW AND APPROVAL

BRUNSWICK REGIONAL
WATER AND SEWER H2GO

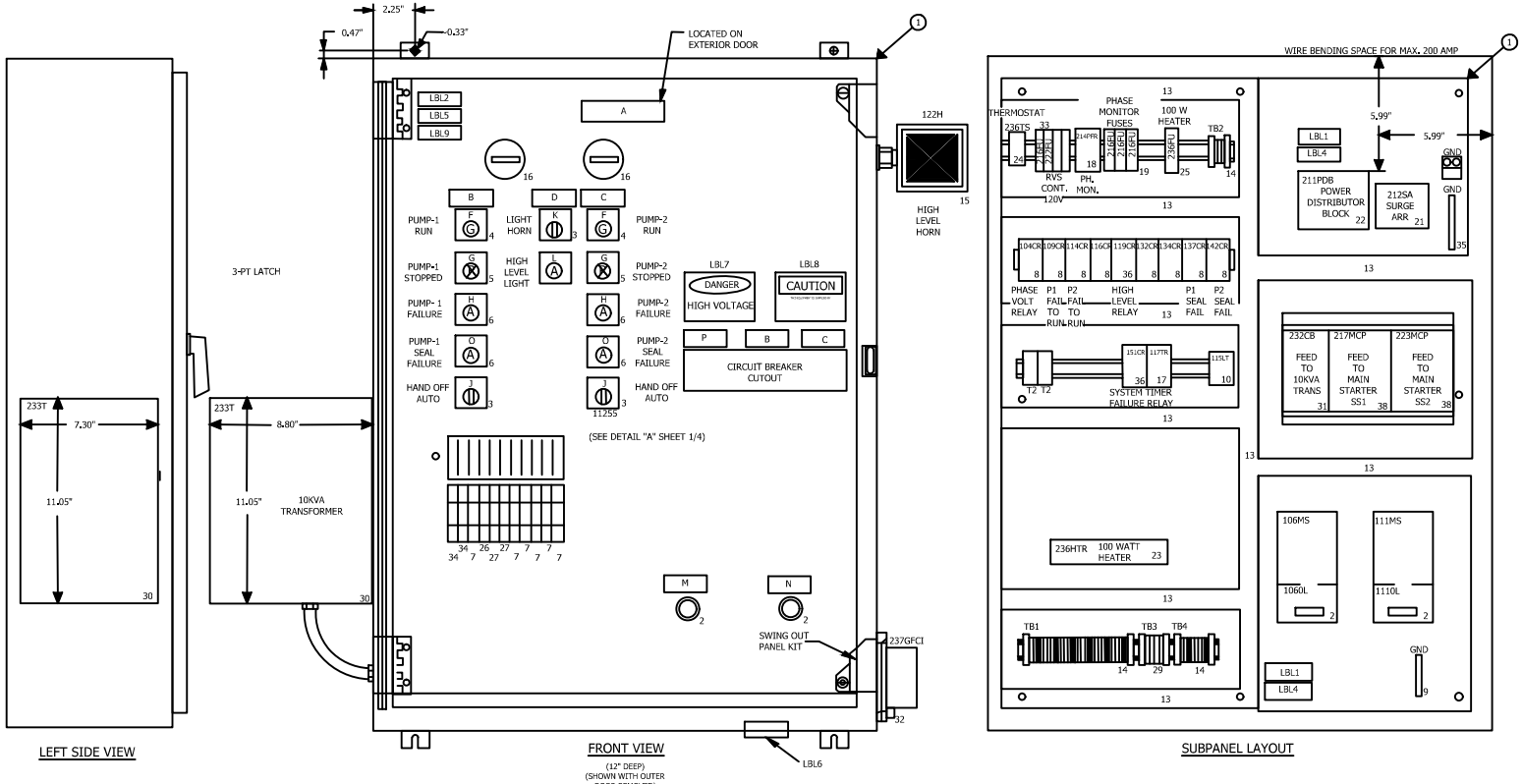
EFFECTIVE: OCTOBER 2024

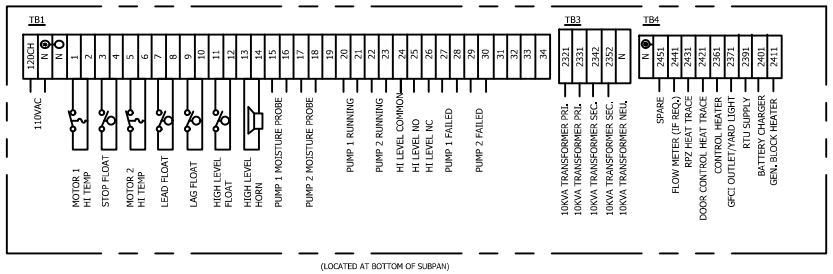
PUMP STATION
ELECTRICAL DIAGRAMS

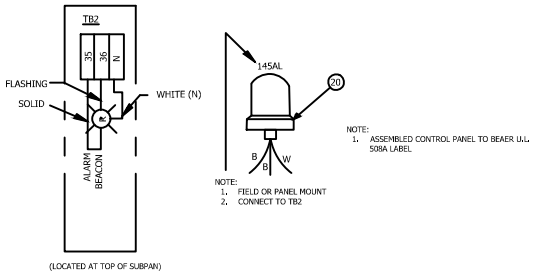
STD. NO.

3000.17

NOT TO SCALE







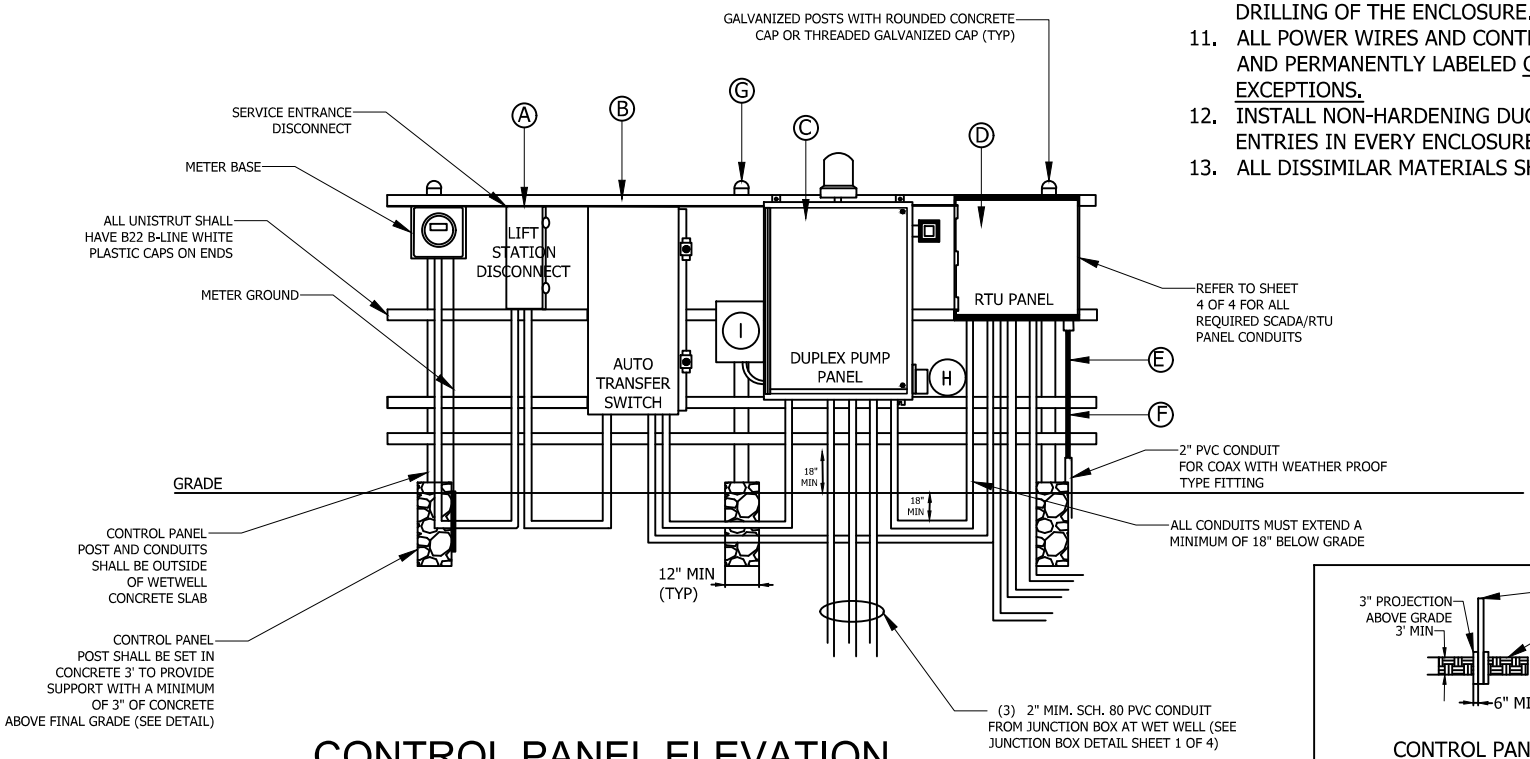
1 - 50 HP PUMP STATION
ELECTRICAL DIAGRAMS

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	PUMP STATION ELECTRICAL PANEL LAYOUT	STD. NO. 3000.18 NOT TO SCALE

A	SERVICE DISCONNECT (SEE NOTE 2)
B	AUTOMATIC TRANSFER SWITCH (SEE NOTE 2)
C	DUPLEX PUMP CONTROL PANEL (SEE NOTE 2 & 3)
D	RTU PANEL - FIBERGLASS
E	POLYPHASE COAXIAL CABLE SURGE ARRESTOR
F	COAX CABLE FROM ANTENNA
G	MINIMUM 3" GALVANIZED POSTS
H	GFCI PROTECTED OUTLET
I	DRY TRANSFORMER - 10kVA (SEE NOTE 4)

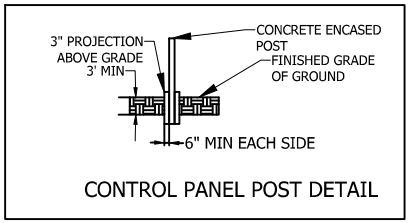
NOTES:

1. ALL POWER TO THE PUMP STATION SHALL BE THREE PHASE POWER, IF PUMP STATION IS SMALLER THAN 5 HP AND THREE PHASE POWER IS UNAVAILABLE, H2GO WILL REVIEW IF SINGLE PHASE POWER MAY BE USED.
2. TRANSFER SWITCH, DUPLEX PUMP PANEL, AND SERVICE DISCONNECT SHALL BE STAINLESS STEEL
3. THE DUPLEX PUMP PANEL SHALL HAVE A FACTORY APPLIED WHITE PAINT FINISH AND 3-POINT LOCKABLE HATCH.
4. 10KVA DRY TRANSFORMER REQUIRED FOR 480 VAC PRIMARY.
5. PROVIDE A MINIMUM OF THREE 10' LONG $\frac{3}{4}$" DIAMETER COPPER CLAD GROUND RODS SPACED AT A MINIMUM OF 6 FOOT APART, GROUND ROD LOCATED AT FIRST DISCONNECTING MEANS OR ELECTRIC METER, GENERATOR, AND CONNECTED TO BACK PANEL POSTS.
6. METER BASE, SCADA/RTU PANEL, AND FLOW METER ENCLOSURE (IF APPLICABLE) MAY BE MOUNTED ON THE BACK IF THERE IS NO ROOM ON THE FRONT. SERVICE DISCONNECT, ATS, AND PUMP CONTROL PANEL MUST BE MOUNTED TOGETHER ON THE FRONT AND FACE WET WELL.
7. USE ADEQUATE AMOUNT OF 1 $\frac{5}{8}$" SLOTTED STAINLESS STEEL UNISTRUT TO SUPPORT ALL ENCLOSURES. EACH ENCLOSURE SHALL BE SUPPORTED BY A MINIMUM OF TWO HORIZONTAL PIECES OF UNISTRUT.
8. ALL CONDUIT ENTRIES MUST PENETRATE THE BOTTOM OF ALL ENCLOSURE WITH MYERS HUB TYPE FITTINGS, NO EXCEPTIONS, NO CONDULET FITTINGS (LL, LB, OR LR) ALLOWED.
9. ALL CONDUIT SHALL BE SCHEDULE 80 PVC.
10. ALL ENCLOSURE LABELS SHALL BE OUTDOOR VINYL LABELS AND SHALL BE MOUNTED TO THE ENCLOSURE WITHOUT ANY DRILLING OF THE ENCLOSURE.
11. ALL POWER WIRES AND CONTROL WIRES MUST BE PROPERLY AND PERMANENTLY LABELED ON BOTH ENDS OF WIRES, NO EXCEPTIONS.
12. INSTALL NON-HARDENING DUCT SEALANT ON ALL CONDUIT ENTRIES IN EVERY ENCLOSURE.
13. ALL DISSIMILAR MATERIALS SHOULD BE INSULATED



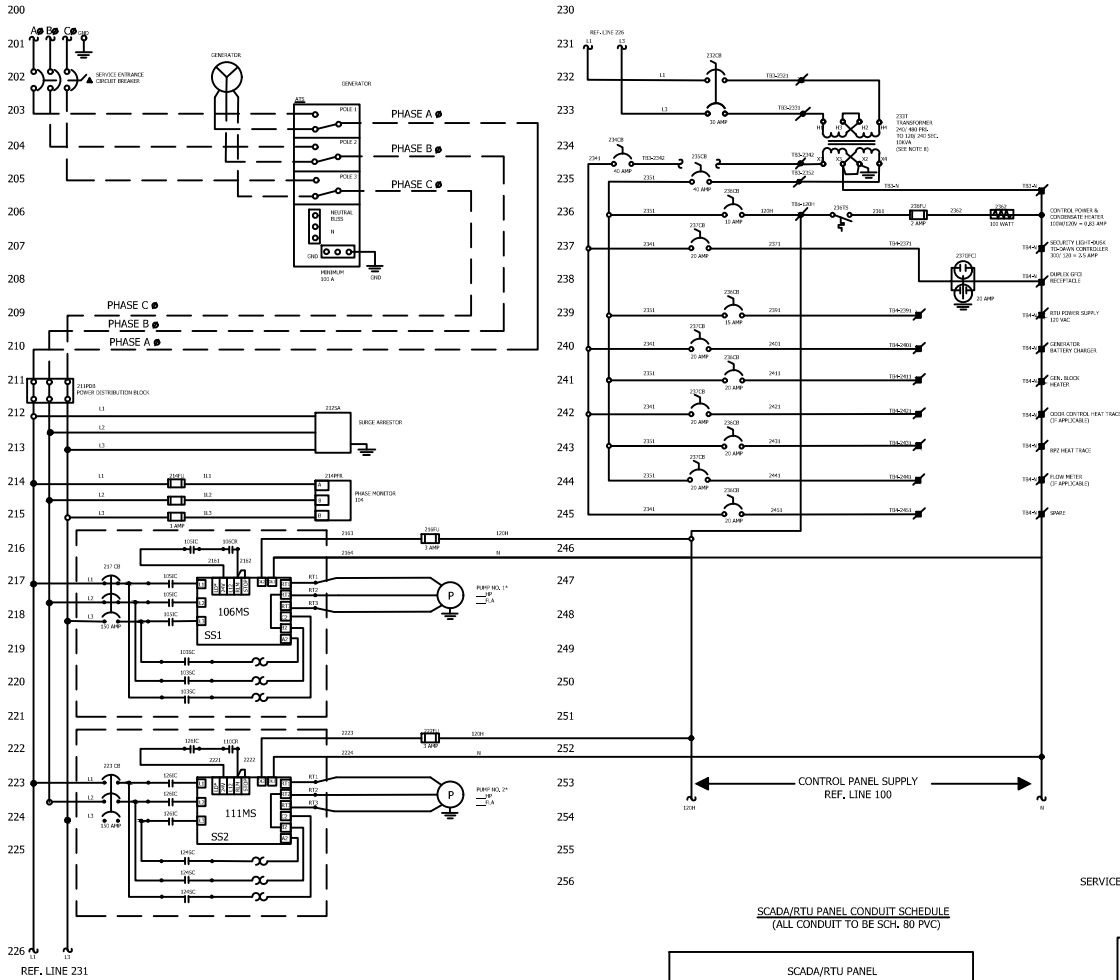
CONTROL PANEL ELEVATION

NOT TO SCALE



CONTROL PANEL POST DETAIL

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	PUMP STATION ELECTRICAL CONTROL PANEL ELEVATION	STD. NO. 3000.19 NOT TO SCALE



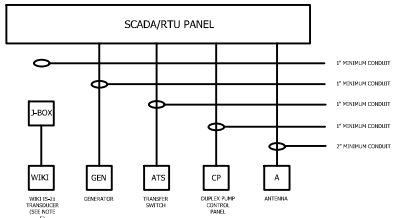
NOTES:

1. STARTING DEVICE SHOWN IS A REDUCED VOLTAGE SOLID STATE STARTER. STARTING DEVICE MAY BE A FULL VOLTAGE NON-REVERSING STARTER, A REDUCED VOLTAGE SOLID STATE STARTER, OR A VARIABLE FREQUENCY DRIVE DEPENDING ON THE SITUATION AND THE NEEDS OF THE PUMP STATION. LOCATE STARTING DEVICES OUTSIDE OF THE PUMP CONTROL PANEL WHERE APPROVED BY BRUNSWICK COUNTY, TYPICALLY FOR LARGER HORSEPOWER DESIGNS. STARTING DEVICES LOCATED OUTSIDE OF THE PUMP CONTROL PANEL SHALL BE LOCATED IN THEIR OWN ENCLOSURES. ENCLOSURES SHALL HAVE SUITABLE NEMA RATING FOR THE ENVIRONMENT THEY ARE LOCATED IN, AND SHALL BE APPROVED BY BRUNSWICK COUNTY ENGINEERING AND UTILITIES.
2. ADD ADDITIONAL CIRCUIT BREAKERS IN THE PUMP CONTROL PANEL WHERE NECESSARY TO ACCOMMODATE ADDITION LOADS.
3. ADJUST THE SIZE OF THE TRANSFORMER AND CIRCUIT BREAKERS AS NECESSARY TO ACCOMMODATE ANY INCREASE IN THE MISCELLANEOUS LOAD.
4. PUMP MOTORS 10HP AND SMALL CAN BE SINGLE PHASE POWER.
5. IF A WIKI IS-21 PRESSURE TRANSDUCER IS INSTALLED IN THE PUMP STATION VALVE VAULT, A MINIMUM 1" PVC CONDUIT MUST BE INSTALLED FROM THE VALVE VAULT TO J-BOX, THEN FROM THE J-BOX TO THE RTU/SCADA PANEL (OR TO THE ELECTRICAL BUILDING IF THE PUMP STATION HAS AN ELECTRICAL BUILDING).
6. PUMPS 10 HP AND SMALLER MAY BE SINGLE PHASE POWER.
7. DESIGN ENGINEER TO SPECIFY INCOMING POWER VOLTAGE, PHASE, AND AMPERES (MINIMUM SERVICE SIZE IS 100 AMPERES).
8. TRANSFORMER REQUIRED FOR 480 VAC PRIMARY PUMP STATIONS.
9. IF ODOR CONTROL UNIT IS INSTALLED, AN ADDITIONAL 480 VAC, 3 PHASE, 15 AMP CIRCUIT BREAKER IS REQUIRED.

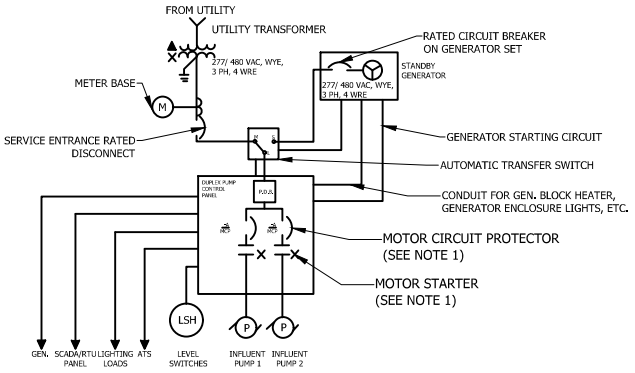
LEGEND

- ✖ DENOTES TERMINAL BLOCK IN CONTROL PANELS
- * DENOTES ITEM REMOTE FROM CONTROL PANEL
- — — DENOTES FIELD WIRING BY OTHER
- ▲ DENOTES ITEM SUPPLIED BY OTHERS
- ◘ DENOTES ITEM SUPPLIED BY RSI INSTALLED BY OTHERS

SCADA/RTU PANEL CONDUIT SCHEDULE
(ALL CONDUIT TO BE SCH. 80 PVC)



480VAC SCHEMATIC



MOTOR HP	NEMA RATING	MCP
1-10 HP	1	3-30A
10-25 HP	2	30-50A
25-50 HP	3	50-150A
50-100 HP	4	150-400A

1-50 HP PUMP STATION ELECTRICAL DIAGRAMS

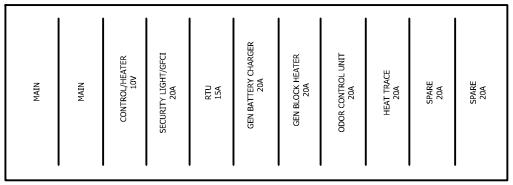
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	PUMP STATION ELECTRICAL SCHEMATICS	STD. NO. 3000.20 NOT TO SCALE

BILL OF MATERIAL

ITEM	QTY.	MANUFACTURER AND CATALOG NUMBER		DESCRIPTION
1	1	HOFFMAN	A-48H3612SSLP 3PT	ENCLOSURE, NEVA 4X, STAINLESS STEEL, 48"H X 36"W X 12"D MINIMUM FACTORY WHITE PAINT, 3-POINT LATCHES
	1	HOFFMAN	A-48H36	PANEL, 45"H X 33"W
	1	HOFFMAN	A-NADFK	INNER DOOR KIT
	1	HOFFMAN	CUSTOM	SWING-OUT PANEL, ALUMINUM, 44"H X 33"W
2	2	SQUARE D	8536 - SD01V02H10	FULL VOLTAGE STARTER, SIZE "," POLE, 120 VAC COIL, SOLID STATE THERMAL OVERLOAD, CLASS 10 TRIP, 15-45 AMP
	2	SQUARE D	9999 - SXB	AUXILIARY CONTACT, 1 NO. & 1N.C. CONTACT
	2	SQUARE D	9066 - RAI	MOTOR STARTER RESET BUTTON/MECHANISM
	2	SQUARE D	9999- ACD4	AUXILIARY CONTACT FOR OVERLOAD
	2	SQUARE D	9999 - SX7	AUXILIARY CONTACT 1-N.C.
3	3	SQUARE D	9001 - SKS438HI	SELECTOR SWITCH, 3 POSITION, NEVA 4X, CONTACT BLOCK, 1 N.O. & 1 N.C. CONTACT
	1	SQUARE D	9001 - KA1	CONTACT BLOCK, 1 N.O. & 1 N.C.
4	2	SQUARE D	9001 - SKP1G31	PILOT LIGHT, NEMA 4X, TRANSFORMER TYPE, 120 VAC, GREEN LENS
5	2	SQUARE D	9001 - SKPJR31	PILOT LIGHT, NEMA 4X, TRANSFORMER TYPE, 120 VAC, RED LENS
6	5	SQUARE D	9001 - SKPIR31	PILOT LIGHT, NEMA 4X, TRANSFORMER TYPE, 120 VAC, AMBER LENS
7	1	SQUARE D	QOU - 110	CIRCUIT BREAKER, 1 POLE, 10 AMP, 125 VOLT
8	8	IDEC	RR3B - ULA120	CONTROL RELAY, 3PDT, BLADES, INDICATING LIGHT, 120 V COIL, 11 PIN
	8	IDEC	SR3B - 06	RELAY SOCKET, 11 BLADES, DIN RAIL MOUNT
9	1	SQUARE D	PK7GTA	GROUND BAR
10	1	SQUARE D	CA2SJE20G7	ALTERATION RELAY, 120 VOLT, 2 N.O. CONTACTS
12	2	TELEMECANIQUE	RM4LG01F	SEAL FAIL RELAY
13	A/R	PANDUIT	TYPE F	WIRE DUCT, GREY, NON-SLIP COVER (REFER TO DIMENSIONS ON LAYOUT)
14	39	WEDDMUELLER	1020100000	TERMINAL BLOCKS, 6CO V, 35 AMPS, TYPE HOU 4, ~10-22 A&G WIRE
15	1	EDWARDS	876 - N5	WIRE DUCT, GREY, NON-SLIP COVER (REFER TO DIMENSIONS ON LAYOUT)
16	2	EXM	TSCB212	COUNTER, 120VAC, 6 1/2 DIQT
17	1	SQUARE D	9050 - JCK15Y20	TIMER RELAY, 2PDT, 10 AMP, 8 PIN BASE, 120 VAC 6CHZ COL.
	1	IDEC	SR2P - 06	RELAY SOCKET, 8 PINS, DIN RAIL MOUNT
18	1	MOTOR SAVER	460 - 14	PHASE FAILURE RELAY, 3 PH, 460VAC
19	1	BUSSMANN	BM6033PQ	FUSEBLOCK
	3	BUSSMANN	FNQR - 1	FUSE 1 AMP, 600V, TIME DELAY TYPE
20	1	EDWARDS	102PM8S - N5	PIPE MOUNT BASE
	2	EDWARDS	102LM - R	LENS MODULE - RED
	1	EDWARDS	102LS - ST - N5	STROBE LIGHT SOURCE
	1	EDWARDS	102LS - SIN - N5	STEADY ON, INCANDESCENT LIGHT SOURCE
21	1	SQUARE D	SOSA3650	WIRE DUCT, GREY, NON-SLIP COVER (REFER TO DIMENSIONS ON LAYOUT)
22	1	SQUARE D	9080 - LBA363104	DISTRIBUTION BLOCK, 600 VOLT, 3 POLE, MAIN (1) ~6-400 AWG, BRANCH (4) #14-2 AWG
23	1	HEATREX	Z76 - 1	HEATER, 120 VAC, 100 WATT WITH FINGER GUARD
24	1	HOFFMAN	ATEMNC	THEMOSTAT, SPST, CLOSE ON FALL, 30-140 DEG.
25	1	BUSSMANN	BM6031PQ	FUSE BLOCK, 600 VOLT, 1 POLE, 30 AMP
	1	BUSSMANN	FNM - 2	FUSE, 2 AMP, 250V, TIME DELAY TYPE
26	7	SQUARE D	QOU - 120	CIRCUIT BREAKER, 1 POLE, 20 AMP, 125 VOLT
27	1	SQUARE D	QOU - 115	CIRCUIT BREAKER, 1 POLE, 15 AMP, 125 VOLT
28	2	SQUARE D	FAL3603015M	MOTOR CIRCUIT PROTECTOR, *POLE, *AMP, MAGNETIC TRIP, CIRCUIT BREAKER
29	4	WEDDMUELLER	1020300000	TERMINAL BLOCKS, 600 V, 65 AMPS, TYPE WOU 10, ~6-18 AWG WIRE
30	1	SQUARE D	7400 - 1051F	TRANSFORMER, */*-*/* VOLT, 10 KVA, DRY TYPE, NEMA 3R (SEE NOTE #2)
31	1	SQUARE D	FAL24030	CIRCUIT BREAKER, *POLE, *AMP, *VOLT, FEED TO KVA TRANSFORMER
32	1	PASS & SEYMOUR	MUCAST1	DUPLEX RECEPTACLE COVER, NEMA 3 R, CAST WHILE IN USE COVER
	1	LEVITTON	8891	GROUND FAULT RECEPTACLE, DUPLEX, 20 AMP
33	2	BUSSMANN	FNM - 3	FUSE, 3 AMP, 250 V, TIME DELAY TYPE
34	2	SQUARE D	QOU - 140	CIRCUIT BREAKER, 1 POLE, 40 AMP, 125 VOLT
35	1	SQUARE D	PF7GTA	GROUND BAR
36	2	IDEC	SH4B - ULAC120	CONTROL RELAY, 4DPT, BLADES, INDICATING LIGHT, 120V COIL, 11 PINS
	2	IDEC	SH4B - 05	RELAY SOCKET, DIN RAIL MOUNT, 11 PINS
37	A/R	IDEC	BXDN1000	DINRAIL, ALUMINUM 39.37 INCHES

- ENGINEER TO SPECIFY BASED ON PUMP STATION REQUIREMENTS

Q (FROM SHEET 2 OF 4)



ENGRAVING SCHEDULE

ID NO.	QTY.	TYPE	SIZE	PLATE COLOR	LETTER COLOR	FIRST LINE/SECOND LINE, ETC.
A	1	N P	1- 1 / 2" X 6"	WHITE	BLACK	\PUMP STATION\ DUPLEX CONTROL PANEL\ " VOLT, *HP
B	2	N P	1" X 3"	WHITE	BLACK	PUMP NO. 1
C	2	N P	1" X 3"	WHITE	BLACK	PUMP NO. 2
D	1	N P	1" X 3"	WHITE	BLACK	ALARM CONTROL
E	1	N P	1" X 2"	WHITE	BLACK	CONTROL \ CIRCUIT
F	2	L P	2-1 / 4 " SQ.	WHITE	BLACK	RUNNING
G	2	L P	2-1 / 4 " SQ.	WHITE	BLACK	STOPPED
H	2	L P	2-1 / 4 " SQ.	WHITE	BLACK	PUMP FAILURE
J	2	L P	2-1 / 4 " SQ.	WHITE	BLACK	HAND OFF AUTO
K	1	L P	2-1 / 4 " SQ.	WHITE	BLACK	LIGHT RESET LIGHT/HORN
L	1	L P	2-1 / 4 " SQ.	WHITE	BLACK	HIGH \ LEVEL
M	1	N P	1" X 3"	WHITE	BLACK	PUMP NO. 1 \ OL RESET
N	1	N P	1" X 3"	WHITE	BLACK	PUMP NO. 2 \ OL RESET
O	2	L P	2-1 / 4 " SQ.	WHITE	BLACK	SEAL \ FAILURE
P	1	N P	1" X 3"	WHITE	BLACK	10KVA \ TRANSFORMER
Q	1	N P	3" X 4-3/4"	WHITE	BLACK	(NOTE: SEE DETAIL "A")

NOTE:
NAMEPLATES ATTACHED WITH STAINLESS STEEL SCREWS

LABEL SCHEDULE

TAG	QTY	TEXT
LBL1	1	• VOLT
LBL2	1	(REVERSE CUSTOM LABEL) TWO * HP MOTOR, *FLA. EA. *VAC, *PHASE, 60 HZ *FLA, CONTROL VOLTAGE 120 VAC FILE NUMBER E88854
LBL3	1	RECOMMENDED TORQUE \ 5.31-7.09 IN. LB.
LBL4	2	USE COPPER CONDUCTORS ONLY RATED AT 60 DEF C OR HIGHER
LBL5	1	NEMA TYPE 4X, ENCLOSURE RATING
LBL6	2	TO MAINTAIN ENCLOSURE RATING, USE WATERTIGHT HUBS OR FITTINGS WITH THE SAME ENVIRONMENTAL RATING AS THE ENCLOSURE O-Z/GEDNER CHM SERIES HUBS APPLETON HUB SERIES HUBS CROUSE-HINDS STG SERIES HUBS
LBL7	1	DANGER HIGH VOLTAGE
LBL8	1	CAUTION \ THIS EQUIPMENT \ IS SUPPLIED BY \ MORE THAN ONE \ POWER SOURCE
LBL9	1	FUSE SCHEDULE: TO REDUCE RISK OF FIRE, REPLACE WITH SAME TYPE AND SIZE FUSES

NO.	MANUF.	TYPE	AMP	VOLTS
2 14 FU	BUSSMANN	FNQ-R	1	600
236FU	BUSSMANN	FNM	2	250

NOTE:
1. ASSEMBLED CONTROL PANEL TO BEAT U.L. 508A LABEL
2. 10 KVA TRANSFORMER ONLY REQUIRED IF UTILITY VOLTAGE IS 240/480 PRIMARY

FULL VOLTAGE MOTOR STARTER TABLE

MOTOR HP	208 V SIZE	240 V SIZE	480 V SIZE
2	1	1	1
5	1	1	1
10	2	2	1
15	3	2	2
20	3	3	2
30	4	3	3
40	4	4	3
50	5	4	3

1-50 HP PUMP STATION
ELECTRICAL DIAGRAMS

BRUNSWICK REGIONAL WATER AND SEWER H2GO

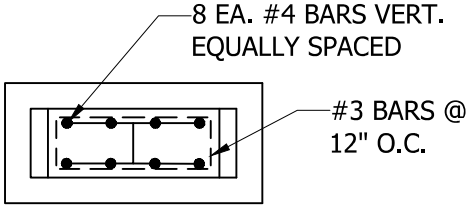
EFFECTIVE: OCTOBER 2024

PUMP STATION ELECTRICAL BILL OF MATERIALS

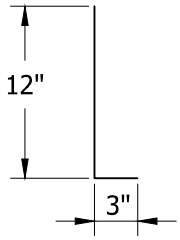
STD. NO.

3000.21

NOT TO SCALE



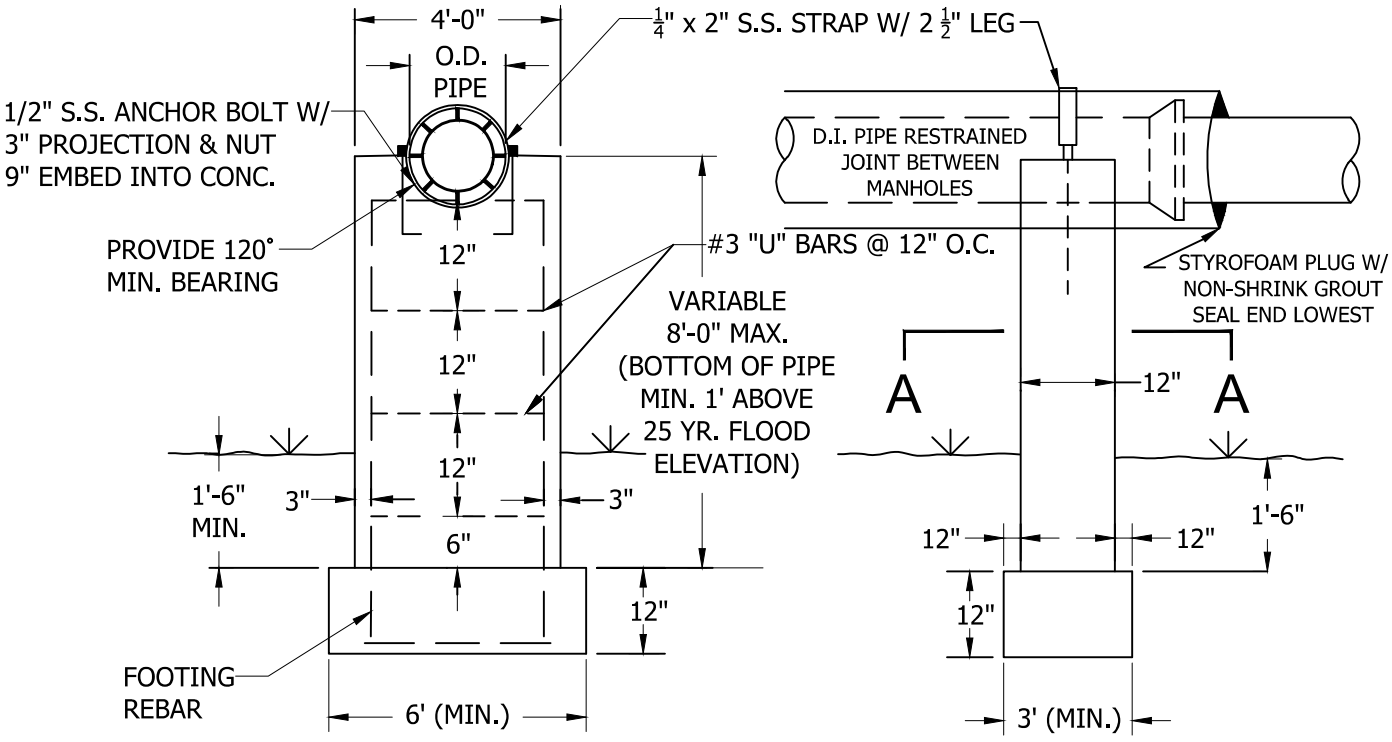
SECTION A-A



ANCHOR BOLT DETAIL

NOTES:

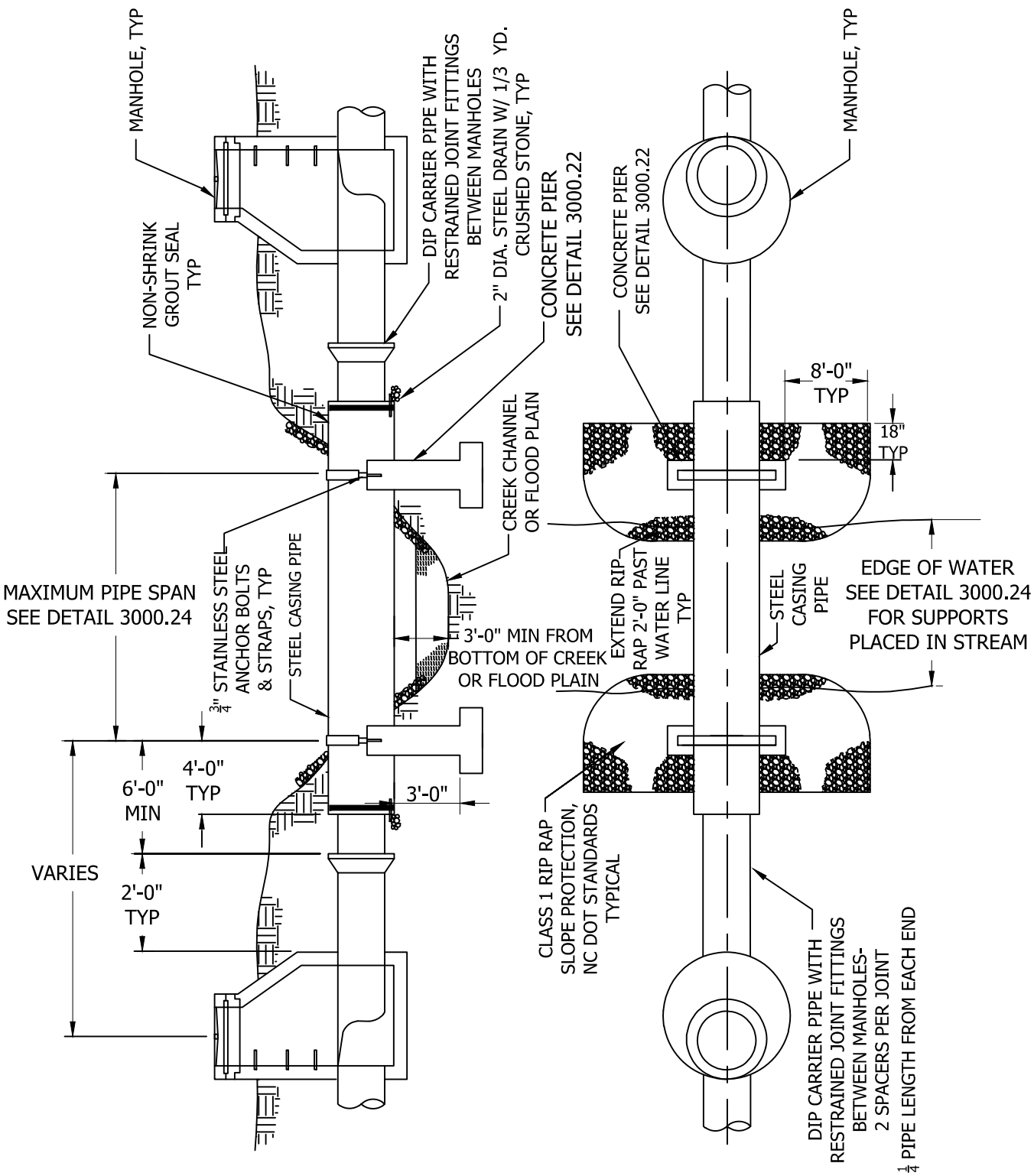
1. BRUNSWICK REGIONAL WATER AND SEWER H2GO SHALL REVIEW ALL PROPOSED AERIAL CROSSINGS TO CONFIRM NEED.
2. SITE SPECIFIC DESIGN CRITERIA SHOULD BE CONSIDERED WHEN DESIGNING AERIAL CROSSINGS.
3. AT THE CONTRACTORS OPTION IN LIEU OF FORMING THE 120° CONC. SADDLE, A STAIN-LESS STEEL PIPE SADDLE MAY PROVIDED.
4. PATCH SNAP TIES
5. CONCRETE FOOTING SHALL HAVE $\frac{3}{4}$" CHAMFER EDGES.
6. REINFORCING STEEL AS SHOWN IS MINIMUM ALLOWED. DESIGN ENGINEER SHALL COMPLETE AN ANALYSIS AND DESIGN. BASED ON SUBGRADE ANALYSIS LOAD.
7. TWO SPACERS AT EVERY JOINT WITHIN CASING PIPE. ENSURE SPACERS ARE APPROPRIATELY SIZED FOR CASING PIPE AND CARRIER PIPE. REFER TO BRUNSWICK REGIONAL WATER AND SEWER H2GO CONSTRUCTION STANDARDS FOR SPACER SPECIFICATIONS.
8. ALL JOINTS SHALL BE RESTRAINED JOINTS BETWEEN MANHOLES.



END VIEW

SIDE VIEW

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	AERIAL PIPE SUPPORTS - CONCRETE PIER	STD. NO. 3000.22
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE



H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	AERIAL PIPE SUPPORT-LAYOUT	STD. NO. 3000.23
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE

NOTES FOR AERIAL CROSSING:

1. STEEL CASING PIPE SHALL BE SPIRAL WELDED OR SMOOTH WALL SEEMLESS WITH A MIN. YIELD STRENGTH OF 35,000 PSI. REQUIREMENTS SHOWN IN TABLE BELOW:

ALLOWABLE SPANS FOR STEEL CASING PIPE			
CARRIER PIPE, RJ DIP DIAMETER (IN)	CASING PIPE, STEEL DIAMETER (IN)	MIN. CASING PIPE WALL THICKNESS (IN)	ALLOWABLE SPAN (FT)
6	14	0.3750	40
8	16	0.3750	45
10	17	0.3750	50
12	20	0.3750	50
14	24	0.3750	55
16	26	0.3750	55
18	30	0.3750	60
20	32	0.3750	60
24	36	0.4375	65
30	42	0.4375	65
36	48	0.5000	65
40	56	0.5000	65

2. RESTRAINED JOINT PIPE AND FITTINGS SHALL CONSIST OF BOLTED RETAINER RINGS AND WELDER RETAINER BARS OR BOLTLESS TYPE WHICH INCLUDE DUCTILE IRON LOCKING SEGMENTS AND RUBBER RETAINERS. RESTRAINED PIPE AND FITTINGS MEET REQUIREMENTS SET IN BRUNSWICK REGIONAL WATER AND SEWER H2GO STANDARD SPECIFICATIONS.

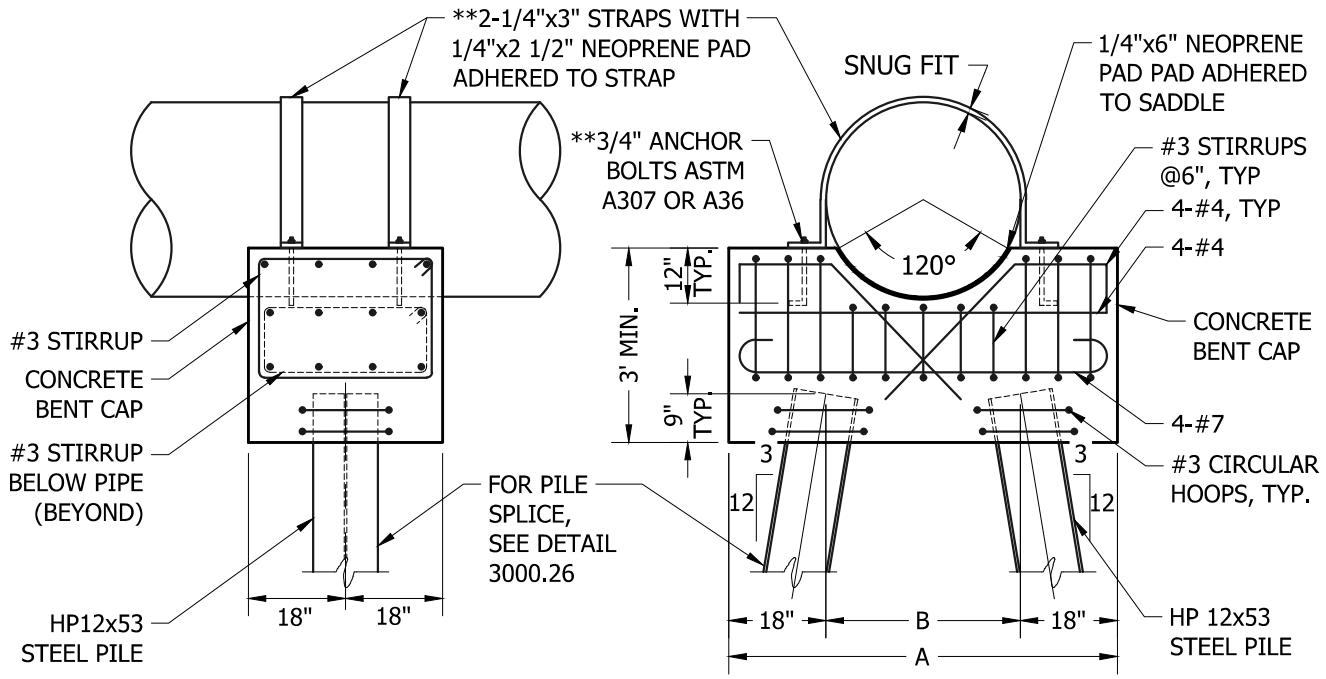
3. CONCRETE PROPERTIES SHALL BE AS FOLLOWS:
   CONCRETE COMPRESSIVE STRENGTH = 4000 PSI
   NOMINAL SLUMP =4 INCHES
   WATER/CEMENTITOUS MATERIAL RATIO – 0.45 MAX
   AIR CONTENT = MIN 6%, MAX 7.5%
   CONCRETE SHALL BE TYPE I/11 OR INACCORDANCE WITH ASTM C-150.

4. ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4”

5. CONVENTIONAL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 AND SHALL BE PLACE IN ACCORDANCE WITH “THE RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS” (LATEST EDITION) AS PUBLISHED BY THE CONCRETE REINFORCING INSTITIUTE. SPLICES SHALL BE CLASS B CONFORMING TO ACI 3 18 OF “BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.

6. NEOPRENE BEARING PADS SHALL BE FORMED FROM PREVIOUSLY UNVULCANIZED, 100% VIRGIN NEOPRENE WITH DUROMETER HARDNESS OF 50.

7. IF ENGINEERED DESIGN REQUIRES PILES, THE CALCULATIONS AND ALTERNATE DESIGN MUST BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.



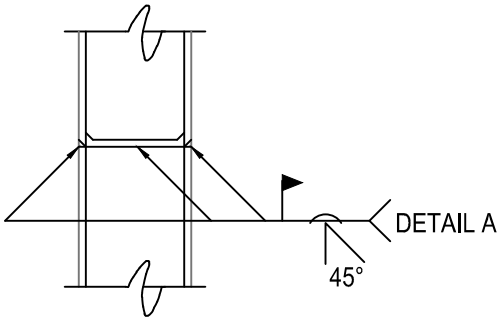
WIDTH OF PILE CAP		
PIPE DIAMETER (IN.)	TOTAL WIDTH "A" (FT.)	PILE SPACING "B" (FT.)
≤ 18	4'-6"	2'-0"
20-36	6'-0"	3'-0"
42	6'-6"	3'-6"
48	7'-3"	4'-3"
54-60	8'-0"	5'-0"

NOTES:

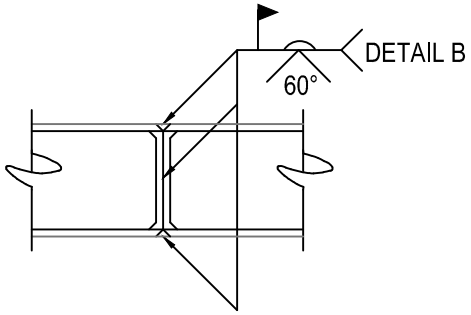
1. BRUNSWICK REGIONAL WATER AND SEWER H2GO SHALL REVIEW ALL PROPOSED AERIAL CROSSINGS TO CONFIRM NEED.
2. PILE SUPPORTED FOUNDATION DESIGN SHOWN ON THIS DETAIL IS BASED UPON THE FOLLOWING PARAMETERS:
   MINIMUM CAPACITY OF HP12x53 PILE = 30 TONS
   CONCRETE COMPRESSIVE STRENGTH = 4000 PSI
   GRADE 60 REINFORCING STEEL
   MAXIMUM STREAM VELOCITY = 10 FT/SEC
   IF FIELD CONDITIONS REQUIRE ANY DEVIATION FROM THESE PARAMETERS, FOUNDATION DESIGN MUST BE APPROVED BY BRUNSWICK REGIONAL WATER AND SEWER H2GO.
3. LENGTH OF PILES SHALL BE AS REQUIRED TO DEVELOP 30 TON CAPACITY BY EITHER END BEARING, FRICTION OR A COMBINATION OF END BEARING AND FRICTION. AS A MINIMUM, PILES SHALL BE DRIVEN AT LEAST 15 FEET INTO UNDISTURBED SOIL.

**4. ANCHOR BOLTS AND STRAPS SHALL BE STAINLESS STEEL.

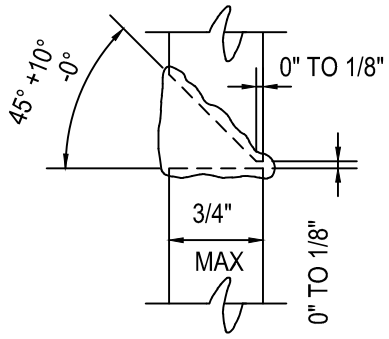
H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	TYPICAL PILE BENT DETAIL	STD. NO. 3000.25
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE



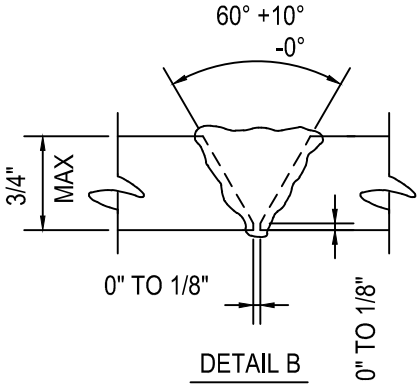
COLUMN VERTICAL



* COLUMN HORIZONTAL OR VERTICAL



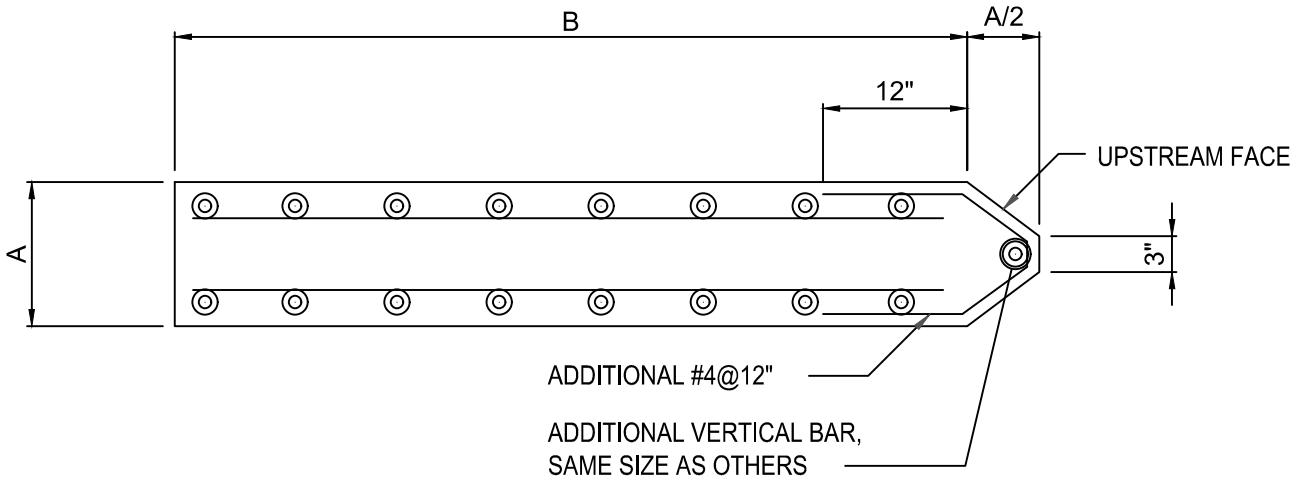
DETAIL A



DETAIL B

* POSITION OF COLUMN DURING WELDING

STEEL PILE SPLICE



PLAN - CONCRETE SUPPORT NOSING

(WHEN EXPOSED TO STREAM FLOW)

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO EFFECTIVE: OCTOBER 2024	TYPICAL PILE BENT-CONCRETE SUPPORT	STD. NO. 3000.26 NOT TO SCALE

CONFINED SPACE SIGNAGE

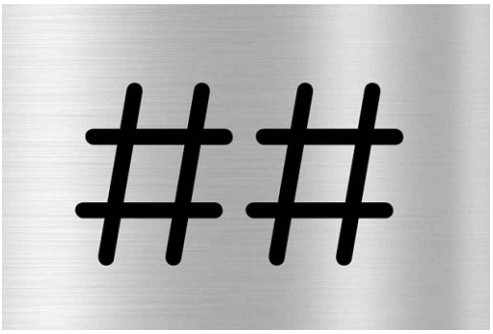
3M HI INTENSITY REFLECTIVE ALUMINUM WITH 3M SMARTSHIELD POF LAMINATE

18” X 24”

CHEMICAL IDENTIFICATION SIGNAGE

3M Engineered Grade Reflective Aluminum with SmartShield POF Laminate

12” x 18”



ADDRESS NUMBER

3M ENGINEERED GRADE REFLECTIVE ALUMINUM WITH SMARTSHIELD POF LAMINATE

(# IS 6” HEIGHT)

12” X 8”

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	SIGNAGE	STD. NO. 3000.27
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE

TRESPASSING SIGNAGE

3M ENGINEERED GRADE
REFLECTIVE ALUMINUM WITH
SMARTSHIELD POF LAMINATE

26"X26"

H2GO	BRUNSWICK REGIONAL WATER AND SEWER H2GO	SIGNAGE	STD. NO. 3000.28
	EFFECTIVE: OCTOBER 2024		NOT TO SCALE