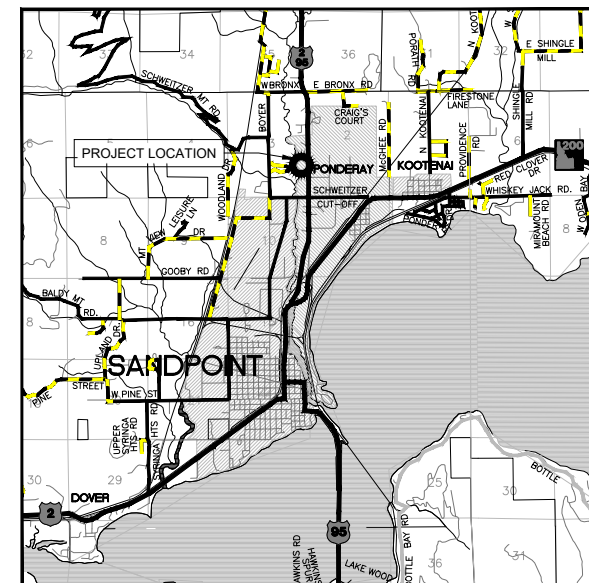


PONDERAY HOTEL DEVELOPMENT UTILITY PLAN

(PARCEL RP0000037302A)
SECTION 3, TOWNSHIP 57 NORTH, RANGE 2 WEST,
CITY OF PONDERAY, IDAHO

DRAWING INDEX

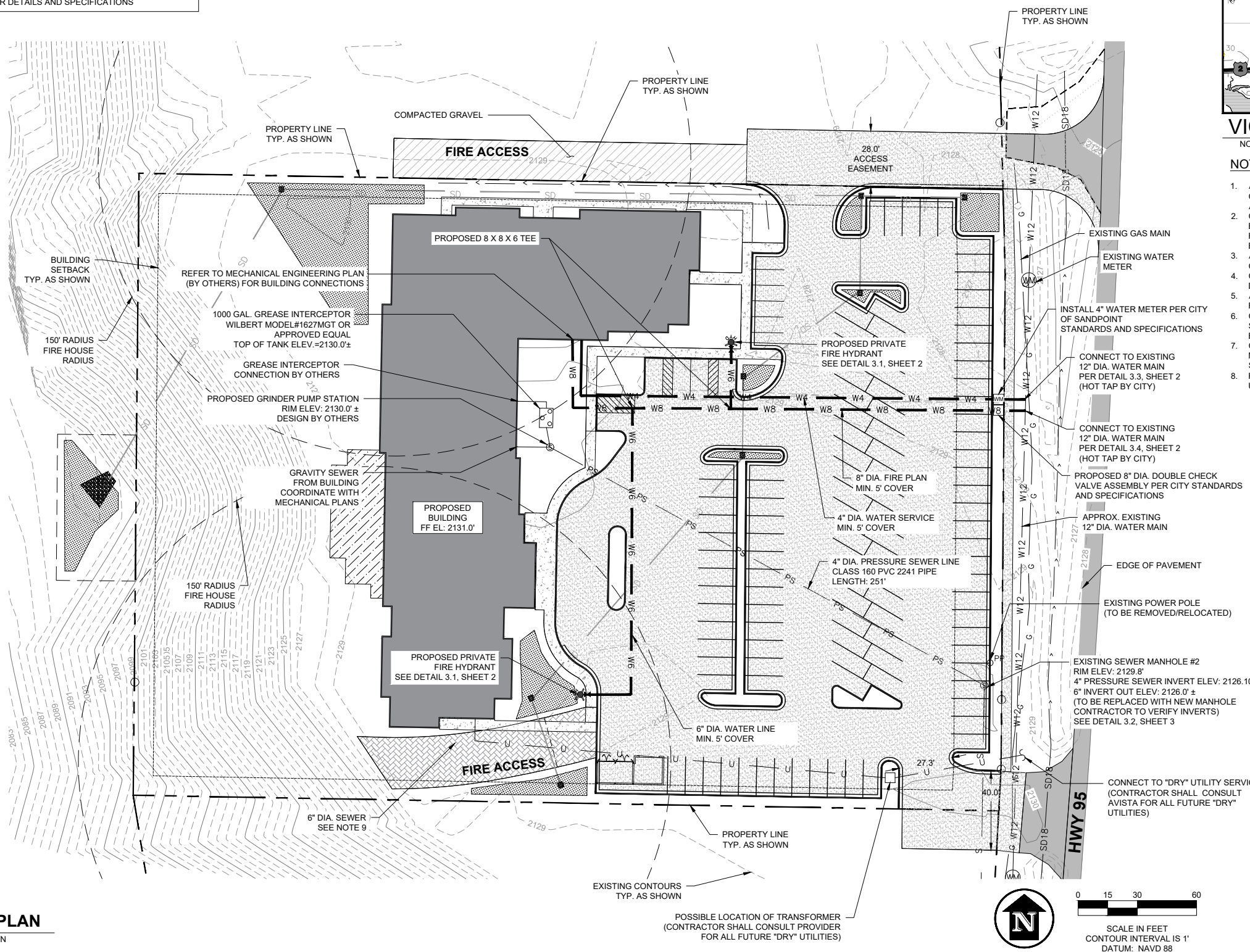
SHEET #	TITLE
1	UTILITY PLAN AND VICINITY MAP
2	WATER DETAILS AND SPECIFICATIONS
3	SEWER DETAILS AND SPECIFICATIONS



VICINITY MAP
NOT TO SCALE

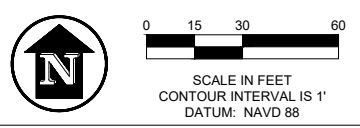
NOTES:

- ALL WORK SHALL CONFORM TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, CITY OF SANDPOINT, KOOTENAI-PONDERAY SEWER DISTRICT, AND THE PROJECT SPECIFICATIONS SHOWN ON THESE PLANS.
- CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL EXISTING SITE ELEMENTS SHOWN ON THESE PLANS, INCLUDING UTILITIES, SURFACE FEATURES, TOPOGRAPHY, AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
- ALL EASEMENTS AND PROPOSED RIGHTS OF WAY SHALL BE APPROVED BY THE CITY OF PONDERAY PRIOR TO UTILITY CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN A PERMIT FROM IDAHO TRANSPORTATION DEPARTMENT FOR ANY WORK IN EXISTING RIGHTS-OF-WAY.
- ALL DISTURBED SOIL AREAS SHALL BE RESEED WITH NATIVE VEGETATION FOLLOWING CONSTRUCTION.
- CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES AND SURFACE FEATURES. DAMAGE TO EXISTING UTILITIES AND FEATURES SHALL BE RESTORED AND REPAIRED AT THE CONTRACTORS EXPENSE.
- CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING SURVEY MONUMENTS. DAMAGED MONUMENTS SHALL BE RESTORED BY A LICENSED SURVEYOR AT THE CONTRACTORS EXPENSE.
- REFER TO MECHANICAL ENGINEERING PLAN FOR WATER, SEWER, AND DRY UTILITY CONNECTIONS TO THE BUILDING.



LEGEND	
	PROPERTY LINE
	PROPOSED ASPHALT CONCRETE
	PROPOSED CONCRETE
	PROPOSED GIA SEE STORMWATER PLAN
	PROPOSED BUILDING
	GRASS PAVERS
	PROPOSED 4" PRESSURE SEWER
	PROPOSED 4" PRESSURE SEWER
	PROPOSED 6" FIRE WATER LINE
	PROPOSED 12" STORMWATER OVERFLOW PIPE
	PROPOSED CATCH BASIN
	PROPOSED FIRE HYDRANT

2.1 UTILITY PLAN
SCALE: AS SHOWN



PRELIMINARY
NOT FOR CONSTRUCTION

NO.	DATE	REVISION	DRN/CHK

James A. Sewell and Associates, LLC
1319 NORTH DIVISION AVENUE
SANDPOINT, IDAHO 83864
(208) 263-4160

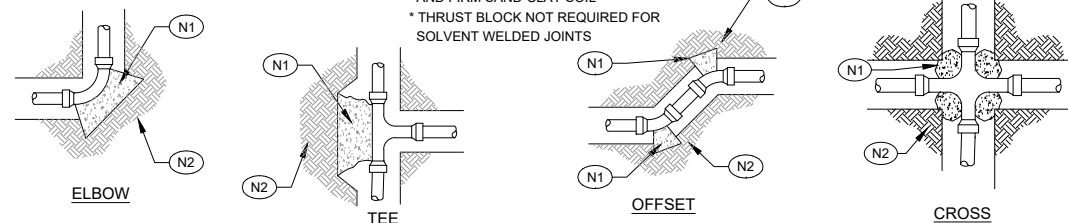
SHEET TITLE: UTILITY PLAN AND VICINITY MAP
PROJECT: PONDERAY HOTEL HIGHWAY 95 CITY OF PONDERAY, IDAHO
DATE: 03/14/2022
SCALE: AS SHOWN
DESIGNED: PJG
DRAWN: PJG
CHECKED: BSB/UPJ
PRJ NO.: 16285-21-001
CAD FILE: E-PROVIDENCE-CIVIL
SHEET 1 OF 3

NOTES FOR THRUST BLOCK DETAIL

- (N1) CONCRETE THRUST BLOCK
- (N2) UNDISTURBED SOIL

PIPE DIAMETER 4" AND SMALLER	MINIMUM BEARING AREA (SQ. FT.)				
	TEES & ENDS	90° ELBOWS	45° ELBOWS	22-1/2" ELBOWS	11-1/4" ELBOWS
1.5"	1.5	2.0	1.0	0.5	0.5
6"	3.6	5.2	2.8	1.4	0.7
8"	6.3	8.8	4.8	2.4	1.2
10"	9.4	13.3	7.2	3.7	1.8
12"	13.3	18.8	10.2	5.2	2.6

* BASED ON 200 PSI LINE PRESSURE,
AND FIRM SAND-CLAY SOIL.
* THRUST BLOCK NOT REQUIRED FOR
SOLVENT WELDED JOINTS



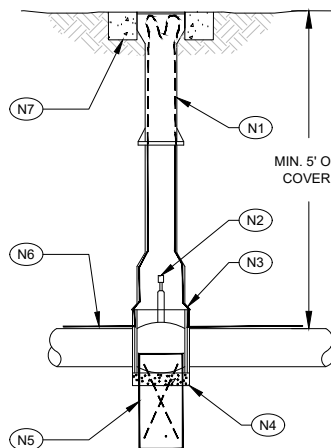
1.1 THRUST BLOCK DETAIL

SCALE: NOT TO SCALE

NOTE: CONCRETE SHALL BE PLACED TO ALLOW ACCESS TO FASTENERS USED IN CONNECTION

- (N1) CAST IRON VALVE BOX (I.F.C.O. No. 3-C, No. 923-R-(A OR B) BOX AND No. 923-(A,B,C OR D) EXTENSION PIPE
- (N2) 2" OPERATOR NUT
- (N3) RESILIENT SEAT GATE VALVE, ENDS AS REQUIRED.
- (N4) 8" X 8" X 2" CONC. BLOCK (4" AND SMALLER GATE VALVE)
- (N5) CONCRETE THRUST BLOCK W/#4 REBAR STRAPS (6" AND LARGER GATE VALVE). THRUST BLOCK TO BE SIZED IN ACCORDANCE WITH ENDS AND ELBOWS OF THRUST BLOCK TABLE.
- (N6) 12 GA. TONING WIRE FOR TRACING PURPOSES; LOOPED UP VALVE BOX
- (N7) 18" DIA. X 4" THICK CONCRETE COLLAR AROUND VALVE WHERE LOCATED IN A/C PAVEMENT

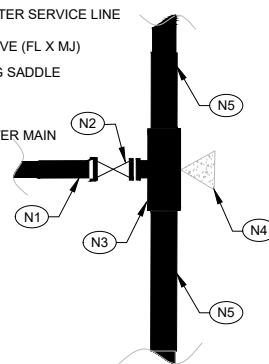
NOTE: THRUST BLOCK NOT REQUIRED WHEN VALVE IS BOLTED TO A THRUST PREVENTED FITTING.



2.1 TYPICAL GATE VALVE

SCALE: NOT TO SCALE

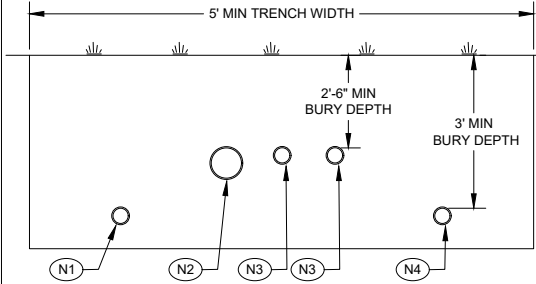
- (N1) PROPOSED 4" DIA. C900 PVC WATER SERVICE LINE
- (N2) PROPOSED 4" DIA. D.I. GATE VALVE (FL X MJ)
- (N3) PROPOSED 12X12X4 SS TAPPING SADDLE
- (N4) THRUST BLOCK SEE DETAIL 1.1, THIS SHEET
- (N5) EXISTING 12" DIA. C900 PVC WATER MAIN



3.3 WATER MAIN CONNECTION

SCALE: NOT TO SCALE

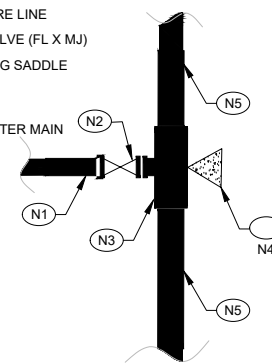
- (N1) POWER - 2" SCH. 40 PVC CONDUIT (VERIFY W/ AVISTA)
- (N2) TELEPHONE - 4" SCH. 40 PVC (VERIFY W/ FRONTIER)
- (N3) TELEVISION AND INTERNET - 2" SCH. 40 PVC (VERIFY W/ PROVIDER)
- (N4) GAS MAIN (VERIFY W/ AVISTA)



3.2 DRY UTILITY TRENCH

SCALE: NOT TO SCALE

- (N1) PROPOSED 8" DIA. C900 PVC FIRE LINE
- (N2) PROPOSED 8" DIA. D.I. GATE VALVE (FL X MJ)
- (N3) PROPOSED 12X12X8 SS TAPPING SADDLE
- (N4) THRUST BLOCK SEE DETAIL 1.1, THIS SHEET
- (N5) EXISTING 12" DIA. C900 PVC WATER MAIN

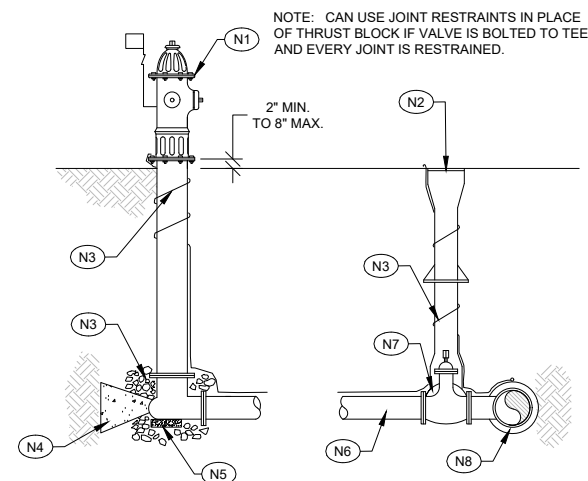


3.4 FIRE LINE MAIN CONNECTION

SCALE: NOT TO SCALE

NOTES FOR FIRE HYDRANT DETAIL

- (N1) TRAFFIC TYPE FIRE HYDRANT, AWWA C502 COMPRESSION TYP. 5-1/4" VALVE OPENING, 1" PUMPER NOZZLE AND 2 HOSE NOZZLES, WATEROUS OR MUELLER, MODERN STYLE YELLOW IN COLOR W/ STORZ ADAPTER, HYDRANT FLAG, AND ALPHA INLET
- (N2) CAST IRON VALVE BOX I.F.C.O. No. 3-C, COVER No. 923-R-(A OR B) BOX AND No. 925-(A,B,C OR D) EXTENSION PIPE.
- (N3) 3/4" DRAIN ROCK TO 6" ABOVE DRAIN PORTS, MIN. 10 CU. FT.
- (N4) THRUST BLOCK PER DETAIL 1.1, THIS SHEET.
- (N5) 2" X 8" X 8" CONCRETE BLOCK.
- (N6) 6" PVC WATER LINE
- (N7) 6" GATE VALVE W/RESILIENT WEDGE, AWWA C-509, FL X ALPHA
- (N8) MAIN LINE SIZED X 6" TEE - MJ X MJ X FL
- (N9) 12 GA. TONING WIRE W/ DBR SPLICE KIT



3.1 FIRE HYDRANT

SCALE: NOT TO SCALE

WATER AND SEWER SPECIFICATIONS

GENERAL - WATER SYSTEM AND SEWER SYSTEM CONSTRUCTION SHALL CONFORM TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPC), THE CITY OF PONDERAY, SANDPOINT WATER DEPARTMENT, PANHANDLE HEALTH DISTRICT, THE STATE OF IDAHO DEPT. OF ENVIRONMENTAL QUALITY AND IDAHO STATE PLUMBING CODE REQUIREMENTS. IN THE EVENT OF A CODE CONFLICT, THE MORE RESTRICTIVE CODE SHALL APPLY. ALL MATERIALS SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE AMERICAN WATERWORKS ASSOCIATION (AWWA) STANDARDS, UNLESS OTHERWISE NOTED. IN THE EVENT OF CODE CONFLICT, THE MORE RESTRICTIVE CODE SHALL APPLY.

THRUST BLOCKS - THRUST BLOCKS SHALL BE PROVIDED AS SHOWN ON THE DRAWING, BE PLACED AT ALL PIPELINE FITTINGS, PLUGS, TEES, BENDS, AND REDUCERS, AND BE PROVIDED IN ACCORDANCE WITH ISPC SECTION 400 AND CITY OF DOVER STANDARD SPECIFICATIONS.

CONSTRUCTION INSPECTION - INSPECTION OF SYSTEM COMPONENTS SHALL BE SCHEDULED WITH THE ENGINEER. ALL COMPONENTS OF THE PROPOSED WATER & SEWER SYSTEMS SHALL BE LEFT UNCOVERED UNTIL APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE.

PIPE BEDDING - PIPE BEDDING SHALL COMPLY WITH THE ISPC SECTION 300.

TRENCH PROTECTION - TRENCH PROTECTION SHALL CONFORM TO ISPC SECTION 300.

PIPE TRENCH - TRENCHING SHALL CONFORM TO THE TYPICAL TRENCH DETAIL SHOWN AND IDAHO STANDARDS FOR PUBLIC WORKS SECTION 300 AND SECTION 400.

BACKFILL AND COMPACTION - PIPE BACKFILLING SHALL COMPLY WITH IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION SECTION 300. COMPACT ALL BACKFILL TO TOP OF TRENCH TO 90% DENSITY IN OPEN GROUND, AND 95% DENSITY IN ROADWAYS. IN ACCORDANCE WITH AASHTO T-99 PROCTOR DENSITY, IN MAXIMUM SIX-INCH LOOSE LIFTS.

WATER INSTALLATION - WATER INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION SECTION 404. ALL PIPE SHALL BE LAID ON A STRAIGHT GRADE WITH NO LOCAL HIGH POINTS. AIR RELEASE VALVE OR SERVICE TAP SHALL BE ARE TO BE INSTALLED ON ALL WATER LINES WITH UNAVOIDABLE LOCALIZED HIGH POINTS. PIPE SHALL NOT BE INSTALLED UNTIL TRENCH HAS BEEN COMPLETELY DEWATERED BELOW THE BASE OF THE BEDDING COURSE.

SEWER INSTALLATION - SEWER INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDED STANDARDS AND TO SECTION 502 OF THE ISPC, AT THE DEPTH SHOWN ON THE DRAWINGS. TRENCH SHALL BE COMPLETELY DEWATERED PRIOR TO PIPELINE INSTALLATION. GRAVITY PIPELINE SHALL BE LAID AND MAINTAINED TO THE REQUIRED LINES AND GRADES WITH STRUCTURES AT THE REQUIRED LOCATIONS. VARIANCE FROM ESTABLISHED LINE AND GRADE IN SEWER GRAVITY LINES SHALL NOT BE GREATER THAN 1/32" PER INCH DIAMETER, NOT TO EXCEED 1/2", PROVIDED THAT SUCH VARIATION DOES NOT RESULT IN A LEVEL OR REVERSE SLOPING INVERT. A LASER SHALL BE USED FOR CONTROL OF THE HORIZONTAL AND VERTICAL PLACEMENT OF THE SEWER.

TONING WIRE SPECIFICATION - INSTALL 12 GA. TONING WIRE IN ALL PIPE DITCHES, EVEN THOSE DITCHES WHICH ALSO HAVE ELECTRICAL CABLE, INCLUDING SERVICE LINE DITCHES FROM THE MAIN TO EITHER SEPTIC TANK OR CLEANOUT. THE ENDS SHALL BE TERMINATED IN VALVE BOXES. SPLICES SHALL BE LOCATED NOT LESS THAN 250' SPACING AND WATERTIGHT. INDIVIDUAL BUTT CONNECTORS SHALL BE USED FOR WIRES. THEN INDIVIDUAL "HEAT SHRINK" TUBING PLACED OVER EACH BUTT SPLICE. THEN A LENGTH OF LARGER HEAT SHRINK TUBING SHALL BE PLACED OVER THE ENTIRE CABLE WITH A 2" MINIMUM OVERLAP OVER THE OUTER INSULATION ON BOTH SIDES OF SPLICE. THE ENTIRE SPLICE SHALL BE WRAPPED WITH ELECTRICAL TAPE.

SEWER PIPE - BURIED GRAVITY SEWER PIPE AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM D3034 WITH A MAXIMUM SDR OF 41. ALL BURIED PIPE JOINTS TO HAVE O-RING GASKETS. BUILDING DRAINAGE PIPING SHALL BE 4" D3034. PRESSURE SEWER MAIN LINES SHALL BE ASTM CLASS 160 PVC WITH EITHER GASKETED OR SOLVENT WELDED JOINTS. IF GASKETED JOINTS ARE USED ALL FITTINGS SHALL BE RESTRAINED WITH THRUST BLOCKS OR MECHANICAL JOINTS APPROVED BY THE ENGINEER. PRESSURE SEWER SERVICES SHALL BE 1-1/4" CLASS 200 HDPE WITH BRASS PACK JOINT OR FUSION WELD FITTINGS.

WATER PIPE - WATER PIPE 2" DIAMETER AND SMALLER SHALL CONFORM TO ASTM D2239 200 PSI, SDR 7 POLYETHYLENE OR SCH. 40 PVC PIPE. WATER PIPE LARGER THAN 3" SHALL CONFORM TO AWWA C900 CL150 FOR PVC.

4.2 WATER SPECIFICATIONS

SCALE: NOT TO SCALE

WATER PIPE FITTINGS - PIPE FITTINGS 4" AND LARGER SHALL CONFORM TO AWWA C110 GRAY IRON AND DUCTILE IRON. FITTINGS SHALL BE MECHANICAL JOINT (M.J.) CONFORMING TO AWWA C111 USING TRANSITION GASKETS FOR ASTM PVC PIPE. PIPE FITTINGS SMALLER THAN 4" SHALL BE WELDED SCHEDULE 40 PVC, TYPE "K" COPPER OR FUSION WELD JOINTS.

VALVES - GATE VALVES SHALL CONFORM TO AWWA C509. VALVES SHALL HAVE RESILIENT WEDGE, NON-RISING STEMS WITH "O" RING SEALS AND ENDS AS NOTED. VALVES SHALL BE "MUELLER" BRAND OR EQUAL. VALVES SHALL INCLUDE A TWO PIECE CAST IRON VALVE BOX SUITABLE FOR THE BURIAL DEPTH REQUIRED.

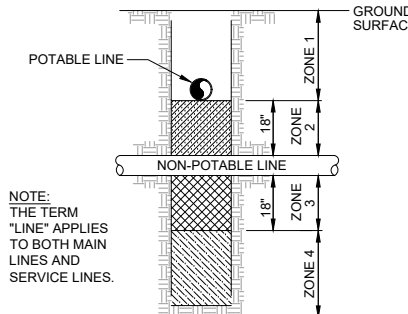
PRESSURE AND LEAKAGE TEST - AFTER COMPLETE INSTALLATION FOR THE CONSTRUCTION PHASE, INCLUDING SERVICE CONNECTIONS, ALL WATER PIPELINES SHALL BE PRESSURE TESTED TO A PRESSURE OF 150 PSI IN ACCORDANCE WITH ISPC SECTION 400. BEFORE APPLYING THE SPECIFIED TEST PRESSURE, AIR SHALL BE EXPELLED COMPLETELY FROM THE PIPES, VALVES, AND HYDRANTS. PRESSURE SHALL BE MAINTAINED UNTIL THE ENGINEER OR HIS INSPECTOR HAVE DETERMINED THAT THE SECTION OF PIPE, VALVES, AND FITTINGS ARE WATERTIGHT. THE TEST PRESSURE IN THE WATER MAINS SHALL BE MAINTAINED FOR A MINIMUM OF 2 HOURS, VERIFY THAT DURING THE 2 HOUR TEST, THE PIPE DOES NOT LEAK IN EXCESS OF THAT ALLOWED BY SECTION 401.3.6 OF THE ISPC. AFTER INSTALLATION, ALL PRESSURE SEWER PIPE SHALL BE TESTED TO A MINIMUM PRESSURE OF 125 PSI FOR 1.5 HOURS, VERIFY THAT DURING THE 1.5 HOUR TEST, THE PIPE DOES NOT LEAK IN EXCESS OF THAT ALLOWED BY SECTION 401.3.6 OF THE ISPC.

FLUSHING - AFTER THE PRESSURE TEST IS COMPLETE. FLUSH ALL WATER MAINS THOROUGHLY AT MINIMUM FLUSHING VELOCITY OF 2.5 FPS PER ISPC SECTION 401

DISINFECTION AND FINAL FLUSHING OF WATER MAINS - AFTER COMPLETE WATER MAIN AND SERVICE LINE INSTALLATION FOR THE CONSTRUCTION PHASE, ALL NEW WATER SYSTEM COMPONENTS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651 AND ISPC SECTION 401 STANDARD SPECS CONTINUOUS FEED METHOD. USE AN APPROVED SOURCE TO FEED CLEAN WATER INTO THE NEWLY LAID WATER MAIN. FILL AT A POINT NOT MORE THAN 10' DOWNSTREAM FROM THE BEGINNING OF THE NEW MAIN. MEASURE THE CHLORINE DOES AT REGULAR INTERVALS AND ENSURE THAT THE MINIMUM CONCENTRATION IS 25 MG/L. DO NOT STOP CHLORINE APPLICATION UNTIL THE ENTIRE MAIN IS FILLED WITH WATER. RETAIN CHLORINATED WATER IN THE MAIN FOR AT LEAST 24 HOURS, OPERATING ALL VALVES AND HYDRANTS IN THE TEST SECTION. AT THE END OF THE 24 HOUR TEST PERIOD, VERIFY THAT THE TREATED WATER IN ALL SECTIONS OF THE MAIN HAS A MINIMAL RESIDUAL OF 10 MG/L OF CHLORINE. AFTER DISINFECTION AND PRIOR TO PUBLIC USAGE, THE DISINFECTING SOLUTION SHALL BE FLUSHED FROM THE SYSTEM AT ITS EXTREMITIES UNTIL THE REPLACEMENT WATER HAS THE SAME CONCENTRATION OF CHLORINE AS ENTERING THE MAIN OR IS ACCEPTABLE FOR DOMESTIC USE. AFTER FINAL FLUSHING AND BEFORE THE MAIN IS PLACED IN SERVICE, TWO COLIFORM BACTERIA TEST SAMPLES SHALL BE TAKEN A MINIMUM OF 24 HOURS APART AND THE RESULTS SUBMITTED TO THE ENGINEER AND THE CITY. CHLORINATED WATER SHALL BE DISPOSED OF IN ACCORDANCE WITH AWWA C651. AN ALTERNATE METHOD OF DISINFECTION CONFORMING TO AWWAC651 AND THE ISPC SECTION 401 CAN BE SUBSTITUTED FOR THE CONTINUOUS FEED METHOD WITH PRIOR APPROVAL FROM THE ENGINEER.

TESTING - PLUMBING SYSTEMS SHALL BE TESTED PER IDAHO STATE PLUMBING CODE REQUIREMENTS.

VERTICAL SEPARATION REQUIREMENTS



NOTE: THE TERM "LINE" APPLIES TO BOTH MAIN LINES AND SERVICE LINES.

ZONE 1: A) POTABLE WATER AND NON-POTABLE MAINS AND SERVICE LINES MUST BE SEPARATED BY AT LEAST 18 INCHES, AND B) ONE FULL, UN CUT LENGTH OF NON-POTABLE PIPE MUST BE CENTERED ON THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE CROSSING.

ZONE 2: POTABLE LINE <18" OVER TOP OF NON-POTABLE LINE.

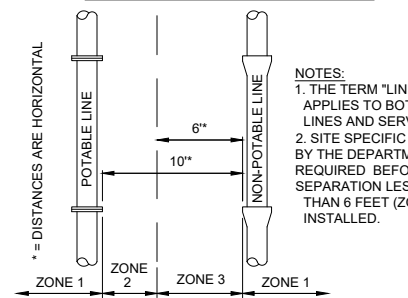
A) ONE FULL, UN CUT LENGTH OF NON-POTABLE WATER PIPE MUST BE CENTERED ON THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE NON-POTABLE LINE, AND EITHER B) NON-POTABLE LINE MUST BE CONSTRUCTED TO POTABLE WATER PIPE STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS FOR A HORIZONTAL DISTANCE OF 10 FEET ON BOTH SIDES OF THE CROSSING, WITH NO JOINTS, OR C) NON-POTABLE OR POTABLE LINE MUST BE CASED IN A LARGER DIAMETER CARRIER PIPE FOR A HORIZONTAL DISTANCE OF 10 FEET ON BOTH SIDES OF THE CROSSING.

ZONE 3: SAME REQUIREMENTS AS ZONE 2 EXCEPT THE NON-POTABLE LINE MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

ZONE 4: SAME REQUIREMENTS AS ZONE 1 EXCEPT THE NON-POTABLE LINE MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

SEWAGE FORCE MAINS SHALL HAVE AT LEAST EIGHTEEN INCHES OF CLEARANCE FROM POTABLE WATER MAINS AND ZONE 2 AND 3 PLACEMENTS ARE PROHIBITED. SEPARATION REQUIREMENTS ALSO APPLY TO POTABLE AND NON-POTABLE SERVICE LINES CONTROLLED BY THE SYSTEM OWNER AND EXTENDING TO THE PROPERTY LINE, SERVICE METER, OR CLEANOUT. REFER TO IDAPA 58.01.08.542.07: IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS AND IDAPA 58.01.16.430.0: IDAHO WASTEWATER RULES.

HORIZONTAL SEPARATION REQUIREMENTS



*** = DISTANCES ARE HORIZONTAL**

ZONE 1: MORE THAN 10 FEET APART: A) NO SPECIAL REQUIREMENTS.

ZONE 2: FROM 6 TO 10 FEET APART: A) NO SPECIAL REQUIREMENTS FOR SERVICE LINES. B) POTABLE AND NON-POTABLE MAINS SEPARATED BY AT LEAST 6 FEET AT OUTSIDE WALLS, AND C) POTABLE MAINS HIGHER IN ELEVATION THAN THE NON-POTABLE MAINS, AND D) NON-POTABLE MAINS CONSTRUCTED WITH POTABLE WATER CLASS PIPE AND PRESSURE TESTED FOR WATER-TIGHTNESS.

ZONE 3: CLOSER THAN 6 FEET APART: A) FOR MAINS AND SERVICES, DESIGN ENGINEER TO SUBMIT DATA TO DEPARTMENT FOR REVIEW AND APPROVAL THAT THIS INSTALLATION WILL PROTECT PUBLIC HEALTH AND ENVIRONMENT AND NON-POTABLE LINE CONSTRUCTED WITH POTABLE WATER CLASS PIPE.

FOR DETAILS REFER TO IDAPA 58.01.08.542.07: IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS OR IDAPA 58.01.16.430.0: IDAHO WASTEWATER RULES.

SEWAGE FORCE MAINS SHALL HAVE AT LEAST TEN FEET OF HORIZONTAL SEPARATION FROM POTABLE MAINS - ZONE 2 AND ZONE 3 PLACEMENTS ARE PROHIBITED.

HORIZONTAL SEPARATION REQUIREMENTS ALSO APPLY TO POTABLE AND NON-POTABLE SERVICE LINES CONTROLLED BY THE SYSTEM OWNER AND EXTENDING THE MAIN LINE TO THE PROPERTY LINE, SERVICE METER, OR CLEANOUT.

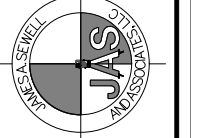
4.4 POTABLE & NON-POTABLE LINE SEPARATION

SCALE: N.T.S.

PRELIMINARY
NOT FOR CONSTRUCTION

NO.	DATE	REVISION

James A. Sewell and Associates, LLC
1319 NORTH DIVISION AVENUE
SANDPOINT, IDAHO 83864
(208) 263-4160



WATER DETAILS AND SPECIFICATIONS

PROJECT: **PONDERAY HOTEL HIGHWAY 95 CITY OF PONDERAY, IDAHO**

SHEET TITLE: WATER DETAILS AND SPECIFICATIONS

DATE: 03/14/2022

SCALE: AS SHOWN

DESIGNED: PJG

DRAWN: PJG

CHECKED: BSB/UPJ

PROJ NO.: 16285-21-001

CAD FILE: E-PROVIDENCE CIVIL

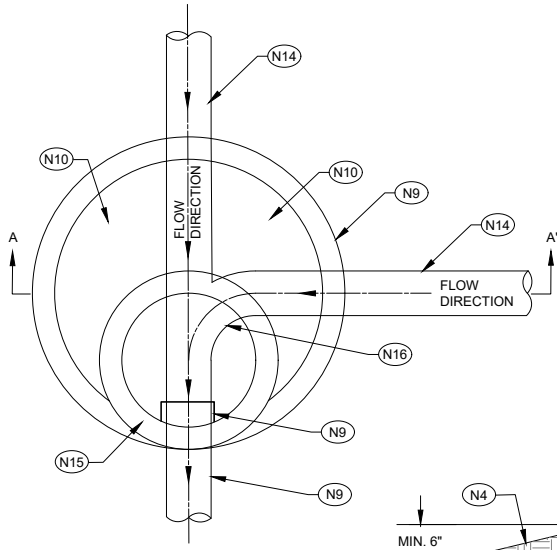
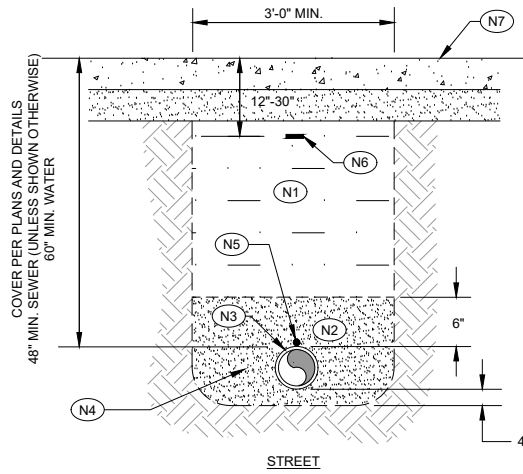
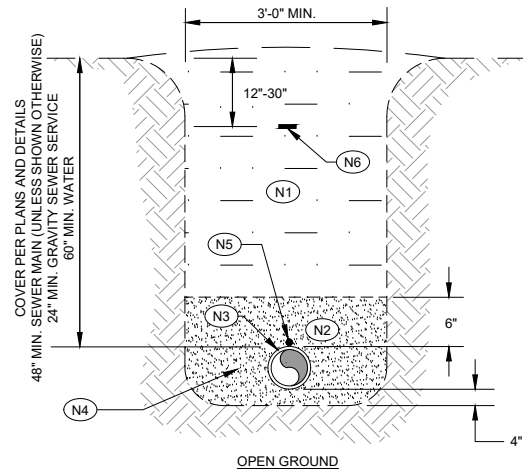
SHEET 2 OF 3

- N1 BACKFILL WITH NATIVE MATERIAL TO 90% STD. PROCTOR IN OPEN GROUND AND 95% UNDER ROADWAYS AND DRIVEWAYS
- N2 IN ROCK EXCAVATION, 12" ABOVE AND 6" BELOW PIPE SHALL BE BEDDED W/SAND
- N3 BURIED PIPELINE
- N4 AREA WITHIN 4" BELOW PIPE AND 6" ABOVE SHALL BE BEDDED WITH 3/4" MINUS CRUSHED AGGREGATE OR SAND BEDDING AND COMPACTED TO 95% STD. PROCTOR
- N5 INSTALL LOCATING WIRE 12 GA. COPPER WITH INSULATION. RUN WIRE UP VALVE BOXES & WRAP TWICE AROUND TOP OF BOXES
- N6 METALLIC LOCATOR TAPE
- N7 FINISHED GRADE OF PAVEMENT

NOTE: TRENCH SIDE WALLS SHALL BE SLOPED AND/OR BRACED TO PROTECT WORKERS, ADJACENT PROPERTY, AND THE WORK.

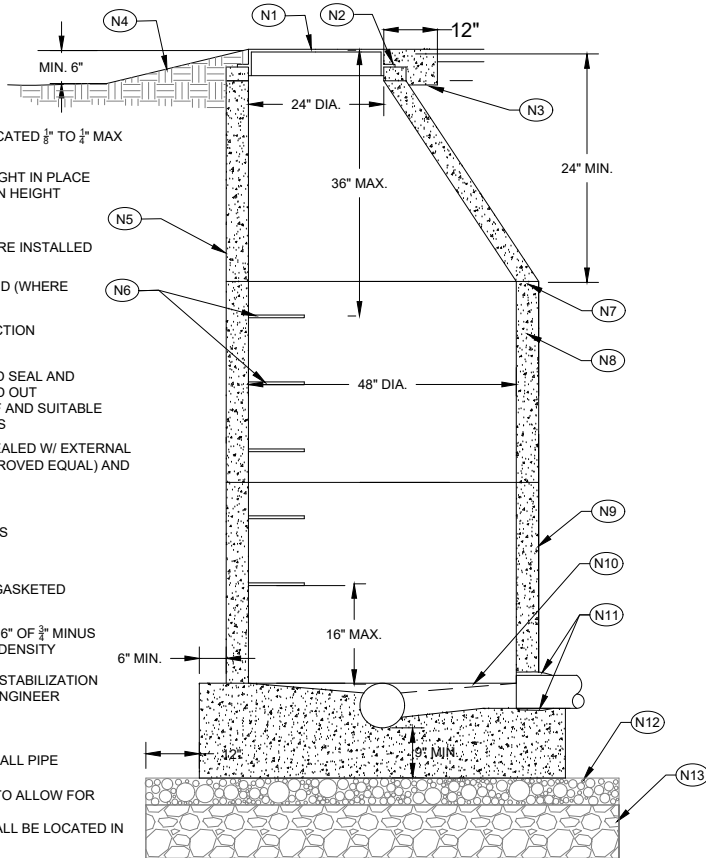
1.1 PIPELINE TRENCHES

SCALE: N.T.S.



NOTES

1. MANHOLES SHALL CONFORM TO SECTION 501 OF THE ISWPC, REINFORCED FOR TRAFFIC LOADS, AND APPROVED BY KOOTENAI-PONDERAY SEWER DISTRICT
2. MATCH PIPE ANGLES TO THE APPROACH ANGLE OF PIPES IN THE FIELD
3. WHERE INTERSECTING AND CONNECTING MANHOLE WITH EXISTING SEWER MAINS, PRECAST BASE SHALL HAVE A CHANNEL SLOPE OF 5/100' (0.6/16TH-INCH) FALL UNLESS NOTED OTHERWISE.

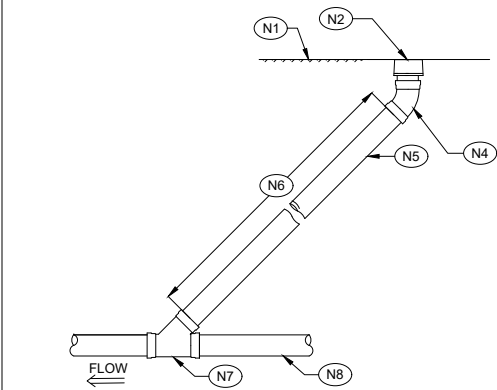


- N1 JORDAN LOCKABLE SEWER RIM & COVER LOCATED 1/2" TO 3/4" MAX BELOW FINISH GRADE PAVEMENT
- N2 GRADE RINGS SHALL BE GROUTED WATER TIGHT IN PLACE GRADE RINGS SHALL BE 4" MIN. TO 12" MAX. IN HEIGHT FRAME TO BE GROUTED TO GRADE RINGS MANHOLE TO BE SEALED USING MASTIC
- N3 CONCRETE COLLAR PER ISWPC SD-508 (WHERE INSTALLED IN PAVEMENT)
- N4 SLOPE FINISH GRADE AWAY FROM ACCESS LID (WHERE INSTALLED OUTSIDE OF ROADWAY)
- N5 PRECAST MONOLITHIC ECCENTRIC CONE SECTION
- N6 EPOXY COATED MANHOLE STEPS PENETRATIONS SHALL BE WRAPPED W/ RAPID SEAL AND GROUTED W/ NON-SHRINK GROUT INSIDE AND OUT HYDRAULIC CEMENT SHALL BE WATERPROOF AND SUITABLE FOR OVERHEAD AND VERTICAL APPLICATIONS
- N7 ALL JOINTS, RISERS, AND RINGS SHALL BE SEALED W/ EXTERNAL JOINT WRAP M-860 JK POLYSOURCE (OR APPROVED EQUAL) AND PROPERLY ALIGNED
- N8 48" PRECAST CONCRETE MANHOLE BARREL
- N9 48" PRECAST MANHOLE BASE WITH CHANNELS
- N10 SHELF SLOPE SHALL BE 1" PER 1'
- N11 PRECAST GASKETED HUB RING OR RUBBER GASKETED COLLAR FLEXIBLE AND WATER TIGHT
- N12 SMOOTH AND LEVEL BEARING SURFACE MIN. 6" OF 3/4" MINUS CRUSHED AGGREGATE COMPACTED TO 95% DENSITY
- N13 INSTALL 2-1/2" MINUS CRUSHED AGGREGATE STABILIZATION MATERIAL WHERE DEEMED NECESSARY BY ENGINEER
- N14 8" DIA. PVC SEWER MAIN
- N15 PLACE CONE OPENING DIRECTLY OVER OUTFALL PIPE
- N16 MANHOLE INVERT SHALL BE CONSTRUCTED TO ALLOW FOR INSPECTION CAMERA INSERTION FLOW POINT AT CHANNEL INTERSECTION SHALL BE LOCATED IN THE CENTER OF THE MANHOLE BASE

4.1 STANDARD MANHOLE DETAIL

SCALE: N.T.S.

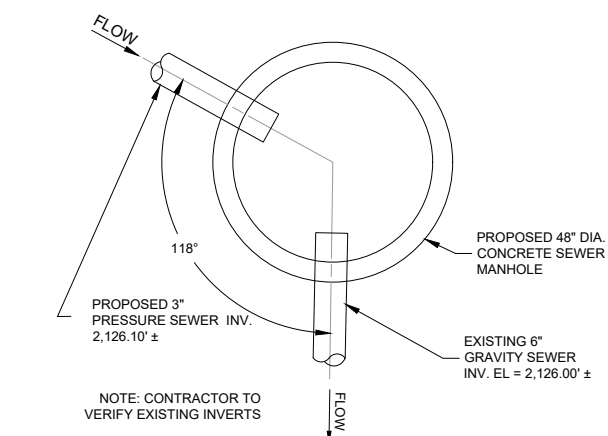
- N1 FINISHED FLOOR ELEVATION OF BUILDING
- N2 6" SCH. LID LABELED SEWER CLEANOUT WITH LOCKING LID
- N3 NOT USED.
- N4 6" ASTM 3034 45° ELBOW
- N5 6" ASTM 3034 PVC SEWER PIPE MINIMUM SLOPE 1/4" PER FOOT
- N6 DISTANCE AS REQUIRED
- N7 6 X6" 6" ASTM 3034 PVC WYE TO INTERIOR BUILDING PLUMBING-1% MIN. SLOPE
- N8



4.2 SEWER CLEANOUT

SCALE: N.T.S.

MANHOLE RIM ELEV = 2,129.8'±



3.3 PROPOSED MANHOLE #1

SCALE: N.T.S.

SEWER CONSTRUCTION SPECIFICATIONS

GENERAL - CONSTRUCTION OF PROPOSED SEWER COLLECTION SYSTEM WILL BE CONNECTED TO EXISTING SEWER SYSTEM. CONSTRUCTION OF SEWER COLLECTION PIPELINE SHALL CONFORM TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY AND PANHANDLE HEALTH DISTRICT REQUIREMENTS.

GRAVITY SEWER PIPE - GRAVITY SEWER LINES SHALL BE 8" PVC PIPE MEETING THE REQUIREMENTS OF ASTM D-3034. PIPE SECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT. INSTALLATION OF SEWER PIPE SHALL CONFORM TO SECTION 300 AND SECTION 500 OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION.

PIPE PRESSURE TESTING - PRESSURE TEST SHALL CONFORM TO SECTION 506 OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION. AFTER INSTALLATION IS COMPLETE THE PIPE SHALL BE PRESSURE TESTED AT 3.5 PSI FOR FIVE MINUTES WITH LESS THAN A 1.0 PSI PRESSURE DROP. ALTERNATE PRESSURE TEST METHOD MAY BE PERFORMED, AS SET FORTH IN SECTION 506, AT THE CONTRACTORS OPTION AND THE ENGINEERS APPROVAL.

PIPE BEDDING - PIPE SHALL BE LAID SO THAT NO ROCK OR OTHER MATERIAL LARGER THAN 3/4" IS WITHIN 6" OF THE PIPELINE. PIPE BEDDING, WHERE REQUIRED, SHALL MEET THE REQUIREMENTS OF SECTION 302 OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION.

MANHOLES - MANHOLES SHALL BE CONSTRUCTED OF CONCRETE AND SHALL BE 4' DIAMETER, HEIGHT AS REQUIRED. MANHOLE SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWING WITH AN ECCENTRIC CONE TOP SECTION HAVING A 24" DIAMETER MANHOLE ACCESS FITTED WITH CAST IRON RING AND LID MARKED "SEWER". MANHOLE SECTIONS SHALL BE SEALED AT JOINTS AND ALL OTHER OPENINGS TO PREVENTS GROUND WATER AND SURFACE WATER INTRUSION. MANHOLES SHALL MEET OR EXCEED THE REQUIREMENTS OF SECTION 504 OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION.

CLEANOUTS - CLEANOUTS SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWING. MAXIMUM SPACING BETWEEN CLEANOUTS SHALL NOT EXCEED 300 FEET. CLEANOUT SHALL BE PROVIDED AT THE END OF EACH TERMINAL SEWER LINE. CLEANOUT SHALL BE ACCESSIBLE FROM GRADE AND SHALL BE MARKED "SEWER".

TRENCH EXCAVATION, PIPE BEDDING AND BACKFILL - ALL WORK SHALL CONFORM TO SECTION 300 OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION. BACKFILL IN ROADWAYS SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY IN MAXIMUM 6" LOOSE LIFTS. BACKFILL ELSEWHERE SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY IN MAXIMUM 9" LOOSE LIFTS. MAXIMUM DENSITY SHALL BE DETERMINED BY ASTM 1557, METHOD D. TRENCH SHALL BE SLOPED AND/OR BRACED TO PROTECT WORKERS, ADJACENT PROPERTY AND THE WORK.

WATER AND SEWER LINE SEPARATION - WHEN HORIZONTAL SEPARATION BETWEEN THE NEW SEWER LINE AND NEW OR EXISTING WATER LINE IS LESS THAN TEN (10) FEET, AND THE VERTICAL SEPARATION IS LESS THAN EIGHTEEN (18) INCHES, OR WHEN IT IS NECESSARY FOR THE WATER LINE TO CROSS UNDER A SEWER LINE, THE WATER LINE OR SEWER LINE SHALL BE ENCASED IN A PVC CASING PIPE WITH TIGHT JOINTS. THE CASING PIPE SHALL EXTEND TO A POINT WHICH IS TEN (10) FEET PERPENDICULAR FROM THE ENCASED PIPE. THE PVC CASING PIPE SHALL MEET THE PRESSURE PIPE SPECIFICATIONS. THE ENDS OF THE ENCASED PIPE SHALL BE SEALED BY AN APPROVED METHOD.

4.3 SEWER SPECIFICATIONS

SCALE: N.T.S.

PRELIMINARY
NOT FOR CONSTRUCTION

NO.	DATE	REVISION	DR/CHK

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 (208) 263-4160

SHEET TITLE: SEWER DETAILS
PROJECT: PONDERAY HOTEL HIGHWAY 95 CITY OF PONDERAY, IDAHO

DATE: 03/14/2022
 SCALE: AS SHOWN
 DESIGNED: PJG
 DRAWN: PJG
 CHECKED: BSB/UPJ
 PROJ NO.: 16285-21-001
 CAD FILE: E-PROVIDENCE CIVIL

SHEET 3 OF 3