



February 8, 2018

Dave Doeringsfeld
Port of Lewiston
1626 6th Avenue N
Lewiston, ID 83501

RE: Colonel Wright Way
Acceptance Letter

Dear Mr. Doeringsfeld,

The above referenced project's public infrastructure and As Recorded Drawings (1/25/18) have been approved and accepted by the City of Lewiston. These completed items initiates the one (1) year warranty period starting from date of this Acceptance Letter.

If you have any questions or need additional information, 208-553-6809 or email PSeverance@cityoflewiston.org.

Sincerely,

Pat Severance

CC: Riedesel Engineering

LEGEND		
EXISTING	PROPOSED	DESCRIPTION
---	---	DITCH
---	---	EDGE OF GRAVEL
---	---	EDGE OF PAVEMENT
---	---	GRADE BREAK
---	---	FENCE (BARBED WIRE)
---	---	INDEX CONTOUR
---	---	INTERMEDIATE CONTOUR
---	---	GAS LINE
---	---	UNDERGROUND POWER
---	---	SANITARY SEWER PIPE
---	---	STORM DRAIN PIPE
---	---	TELEPHONE LINE
---	---	WATER PIPE
---	---	PROPERTY BOUNDARY
---	---	EASEMENT
---	---	LOT LINE
---	---	CENTERLINE
---	---	RIGHTS-OF-WAY
---	---	BUILDINGS
---	---	DECIDUOUS TREE
---	---	GATE (SWING)
---	---	ROAD SIGN
---	---	TEST PIT
---	---	FIRE HYDRANT ASSEMBLY
---	---	MANHOLE
---	---	POWER POLE
---	---	POWER POLE ANCHOR
---	---	TELEPHONE RISER
---	---	UTILITY JUNCTION BOX
---	---	VALVE
---	---	WELL
---	---	5/8" IRON PIN
---	---	BRASS CAP
---	---	BENCHMARK
---	---	SPIKE

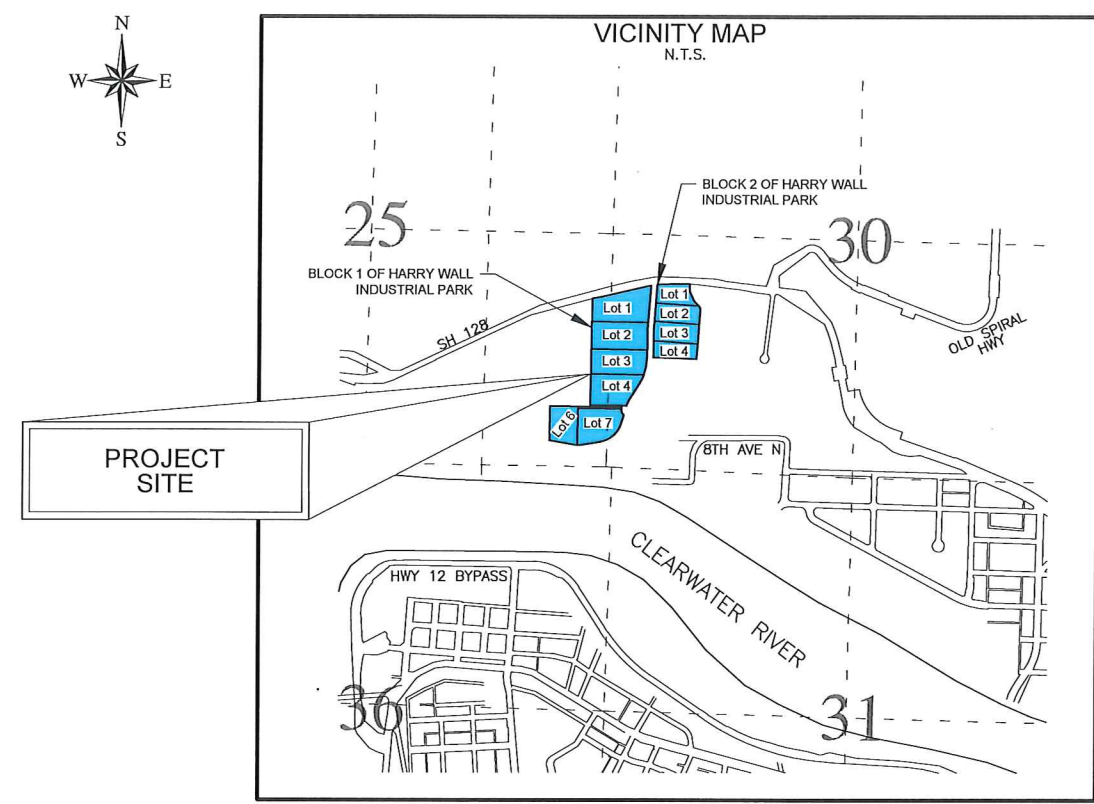
PORT OF LEWISTON 2017 PORT GRADING PROJECT DRAWINGS OF RECORD

LOTS 1-3,6-7 OF BLOCK 1 & LOTS 1-4 OF BLOCK 2 OF HARRY WALL INDUSTRIAL PARK

December 2017

OWNER:
PORT OF LEWISTON
PORT MANAGER: DAVID DOERINGSFELD
1626 6TH AVENUE NORTH
LEWISTON, IDAHO 83501
(208)-743-5531

PUBLIC IMPROVEMENT QUANTITIES		
307.4.1.G.1	TYPE P SURFACE RESTORATION	650 SY
401.4.1.A.1	10" WATER PIPE C900	124 LF
401.A.1.A.2	8" WATER PIPE C900	441 LF
401.A.1.B.1	8" 11.25° ELBOW	1 EA
401.A.1.B.1	8" 22.5° ELBOW	1 EA
401.A.1.B.1	8" 45° ELBOW	1 EA
401.A.1.B.2	10" TEE	1 EA
401.A.1.B.3	8" CROSS	1 EA
401.A.1.B.4	10" CROSS	1 EA
401.A.1.B.5	8"x6" REDUCER	1 EA
401.4.1.B.7	10" TO 6" HOT TAP & 6" GATE VALVE	3 EA
402.4.1.A.1	6" GATE VALVE	1 EA
402.4.1.A.2	8" GATE VALVE	1 EA
402.4.1.A.3	10" GATE VALVE	7 EA
403.4.1.A.1	HYDRANT ASSEMBLY W/O GATE VALVE	4 EA
501.4.1.B.1	8" GRAVITY SEWER PIPE	1021 LF
502.4.1.B.1	SANITARY SEWER MANHOLE TYPE 1	6 EA
502.4.1.E.1	SANITARY SEWER MANHOLE TYPE 1A	2 EA
601.4.1.A.5	18" STORM DRAIN PIPE	133 LF
602.4.1.F.1	CATCH BASIN TYPE III	1 EA



DRAWING INDEX	
SHEET	TITLE
1	COVER
2	GENERAL NOTES & CITY CHECK LIST
3	DETAILS
4	DETAILS
5	DETAILS
6	PROJECT LAYOUT PLAN
7	EXISTING SITE PLAN
8	WEST SITE GRADING
9	WEST SITE GRADING
10	EAST SITE GRADING
11	SANITARY SEWER PLAN
12	SANITARY SEWER PROFILE
13	EAST SANITARY SEWER PROFILE
14	SOUTH WATER LINE PLAN
15	WATER LINE PLAN
16	STORM PLAN
17	STORM POND DETAILS
18	TRAFFIC CONTROL PLAN
19	STORM WATER POLLUTION PREVENTION PLAN

ABBREVIATIONS TABLE			
ALC	ALUMINUM CAP	GB	GRADE BREAK
B.C.	BRASS CAP	GND	GROUND
BL	BASELINE	HORIZ.	HORIZONTAL
BLDG.	BUILDING	INV.	INVERT ELEVATION
B.M.	BENCHMARK	I.H.	INSPECTION HOLE
CB	CATCH BASIN	I.P.	IRON PIN
CL	CENTERLINE	LF	LINEAR FEET
CMP	CORRUGATED METAL PIPE	LOG	LIP OF GUTTER
CO	CLEAN OUT	LT.	LEFT
CONC.	CONCRETE	MAX.	MAXIMUM
CY	CUBIC YARD	MH	MANHOLE
DIA.	DIAMETER	MIN.	MINIMUM
DIST.	DISTANCE	MISC.	MISCELLANEOUS
DWG	DRAWING	N	NORTH/NORTHING
E	EAST/EASTING	N/A	NOT APPLICABLE
EA	EACH	NE	NORTHEAST
EG	EXISTING GROUND	N.T.S.	NOT TO SCALE
EL.	ELEVATION	NW	NORTHWEST
EMB.	EMBANKMENT	PC	POINT OF CURVATURE
EXC.	EXCAVATION	PI	POINT OF INTERSECTION
EXIST.	EXISTING	PL	PROPERTY LINE
FOC	FACE OF CURB	POC	POINT ON CURVE
FG	FINISHED GRADE	PRC	POINT OF REVERSE CURVE
FL	FLOW LINE	PT	POINT OF TANGENCY
GA.	GAUGE	RT.	RIGHT
		R.	RADIUS
		R&P	RETAIN AND PROTECT
		R/W	RIGHT OF WAY
		REF.	REFERENCE
		RP	RADIUS POINT
		S	SOUTH
		SCH	SCHEDULE
		SD	STORM DRAIN
		SE	SOUTHEAST
		SEC	SECTION
		SPEC.	SPECIFICATION
		SS	SANITARY SEWER
		STA:	STATION
		SW	SOUTHWEST
		TA	TOP OF ASPHALTIC CONCRETE
		TBC	TOP BACK OF CURB
		TC	TOP OF CONCRETE
		TYP.	TYPICAL
		U.D.	UNDER DRAIN
		VC	VERTICAL CURVE
		VPC	VERTICAL POINT OF CURVATURE
		VPI	VERTICAL POINT OF INTERSECTION
		VPT	VERTICAL POINT OF TANGENCY



DRAWINGS OF RECORD

These Drawings of Record were prepared from information obtained from field observations and provided by others. Riedesel Engineering, Inc. has not verified the completeness or accuracy of this information and shall not be responsible for any omissions or errors resulting from that information.

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A seal and signature on these Drawings of Record represent that the drafting of the was completed by staff under responsible charge of the licensed professional.

RIEDESEL
Engineering

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Phone: (208) 743-3818
Fax: (208) 743-3819

PORT OF LEWISTON 2017 PORT GRADING PROJECT 2017		COVER	
DESIGNED	CHECKED	DATE	BY
WDR	RLH	12-4	RLH
DETAILED	WDR	12/17	RLH
DRAWING CHECKED	RLH	AS SHOWN	1 OF 19
FILE NAME	DRAWING DATE	DRAWING SCALE	
2635-COVER.dwg	12/17	AS SHOWN	


PROFESSIONAL ENGINEER
REGISTERED
20417
STATE OF IDAHO
REX L. HARDING

GENERAL NOTES

- CONSTRUCTION SHALL BE IN ACCORDANCE WITH IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION 2015 EDITION EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS, AND THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL COMPLETE THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND FILE A NOTICE OF INTENT (NOI) A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- WASTE AND STOCKPILE AREAS WILL BE AS DIRECTED BY ENGINEER AND/OR AS SHOWN.
- IN PLACE FIELD DENSITIES FOR CONSTRUCTION SHALL BE DETERMINED IN ACCORDANCE ISPWC 202.3.8.C.
- PAVEMENT IN AREAS WHERE THE CONTRACTOR MUST CROSS WITH EQUIPMENT SHALL BE PROTECTED. ANY DAMAGED PAVEMENT SECTIONS SHALL BE CUT OUT AND REPAVED IN ACCORDANCE WITH SECTION 810 AT NO ADDITIONAL COST TO THE OWNER.
- STAGING AREAS AND HAUL ROADS ON NATURAL GROUND, SHALL BE DISKED, GRADED, AND SEEDED IN ACCORDANCE WITH 206 SEEDING, UPON COMPLETION OF THE PROJECT. HAUL ROADS ON EXISTING GRAVEL AND DIRT ROADS SHALL BE GRADED AND ROLLED UPON COMPLETION OF THE PROJECT. THIS COST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- STAGING AREAS WILL BE AS SHOWN OR AS DIRECTED BY ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR THE QUALITY CONTROL AND QUANTITY OF THE SOURCES OF MATERIAL TO BE USED.
- WATER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTACT BRYAN LACY, CITY OF LEWISTON WATER SYSTEMS MANAGER, AT (208) 746-1316 FOR PRICING AND CONNECTION OPTIONS.
- THE CONTRACTOR SHALL HAVE ACCESS THROUGH APPROVED ACCESS POINTS ONLY. ACCESS AND CONSTRUCTION ROUTES WILL BE MAINTAINED AND RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR.
- THE CONTRACTOR SHALL LOCATE ALL BURIED UTILITIES AND POWER CABLES PRIOR TO EXCAVATION. THE CONTRACTOR SHALL RETAIN AND PROTECT ALL EXISTING UTILITIES AND ELECTRICAL EQUIPMENT, UNLESS NOTED OTHERWISE. CALL 811 TWO WORKING DAYS BEFORE YOU DIG.
- EXISTING SURVEY MONUMENTS SHALL BE RETAINED AND PROTECTED DURING CONSTRUCTION.
- STORM DRAIN PIPE SHALL BE DUAL WALL, TYPE S CORRUGATED PLASTIC PIPE (CPP), ASTM C-905 OR ASTM C-906 HDPE.
- TEMPORARY DRAINAGE CONTROL MUST BE MAINTAINED DURING CONSTRUCTION.
- ALL BITUMINOUS SURFACE COURSE CONSTRUCTION JOINTS, TRANSVERSE AND LONGITUDINAL, MORE THAN 24 HOURS OLD SHALL BE CUT VERTICALLY 2 TO 3 INCHES BACK FROM THE JOINT AND MATERIAL REMOVED. CUTTING AND MATERIAL REMOVAL SHALL BE INCIDENTAL TO SECTION 810 ITEMS. TACK COAT SHALL BE APPLIED ON ALL COLD JOINTS AND CURBS.
- MATERIAL FOR SP-2800 TOPSOILING SHALL BE OBTAINED FROM ON SITE STRIPPINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING AND STOCKPILING THE REQUIRED QUANTITIES OF TOPSOIL.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING WORK AND PROPERTY FROM STORM WATER DRAINAGE. DAMAGED WORK SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

CITY INSPECTION CHECKLIST

ITEM	MATERIAL	TEST / STANDARD	ACCEPTANCE	TEST FREQUENCY	INSPECTOR/CO.	DATE	INITIAL
1. ALL UTILITY TRENCHES & STRUCTURES							
TRENCH SUBGRADE	Native (6" to 8" Lifts Max.)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	90% Max. Dry Density	One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].			
PIPE BEDDING	3/4" minus Crushed Aggregate (6" to 8" Max. Lift) (Current ITD Spec 703.04) OR 5/8" minus Crushed Aggregate (6" to 8" Max. Lift) (Current WDOT/M41-10 Spec 9-03.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive]. Test top 6" of 12" cover.			
1st FOOT [12"] OF FILL OVER PIPE	3/4" minus Crushed Aggregate (6" to 8" Max. Lift) (Current ITD Spec 703.04) OR 5/8" minus Crushed Aggregate (6" to 8" Max. Lift) (Current WDOT/M41-10 Spec 9-03.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].			
TRENCH BACKFILL UNDER PROPOSED ROAD & SIDEWALK	3/4" minus Crushed Aggregate (6" to 8" Max. Lift) (Current ITD Spec 703.04) OR 5/8" minus Crushed Aggregate (6" to 8" Max. Lift) (Current WDOT/M41-10 Spec 9-03.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].			
STRUCTURAL FILLS	As Spec'd by Engineer	As Spec'd by Engineer		As Spec'd by Engineer			
2. STORM DRAIN MAINS							
GASKETED PE Storm Sewer Pipe	Polyethylene, ADS N-12 or Equal		Certified & Visual by City		Certified & Visual by City		
ALIGNMENT AND GRADE	N/A	Per Manufacturer's Instructions		Per Plan			
JOINTS (Deflection/Proper Pipe Embedment)	N/A	Per Manufacturer's Instructions		Each Joint			
PRESSURE TEST	N/A	4 PSI for 15 Minutes, 1/2 PSI Drop	If required by City Engineer	Between Access Holes			
MANHOLES	Concrete	City Standard		N/A	Certified & Visual by City		
VIDEO INSPECTION	N/A		Public Works Policy No 2012-2				
3. WATER MAINS							
DUCTILE IRON or PVC WATER MAIN	AWWA C-151, C-900, C-905 (Class as Req'd)		Certified & Visual by City		Certified & Visual by City		
ALIGNMENT AND GRADE	N/A	AWWA C-600, AWWA C-605		Per Plan			
JOINTS (Deflection/Proper Pipe Embedment)	N/A	AWWA C-600, AWWA C-605		Each Joint			
THRUST BLOCKS	Concrete, 2500 PSI Mix	Per Approved Plans or City Std Dwg # 4-4		Each Joint	Certified & Visual by City		
HYDROSTATIC PRESSURE	N/A	2 Hrs. NTE Allowable Leakage Per AWWA C-600, AWWA C-605		150% Working Pressure OR 1 1/2 times the Working Pressure in the Water System			
CHLORINATION/BACTERIA	N/A	AWWA C-651		Bacterial Testing: two negative testing samples 24 hours apart	City of Lewiston		
4. WASTEWATER MAINS							
PVC WASTEWATER MAIN	PVC, SDR 35	ASTM 3034		N/A			
ALIGNMENT AND GRADE	N/A			Per Plan			
JOINTS (Deflection/Proper Pipe Embedment)	N/A	Per Manufacturer's Instructions		Each Joint			
MANHOLES	Concrete	Hydrostatic Test		Each Joint			
PRESSURE TEST	N/A	4 PSI for 15 Minutes, 1/2 PSI Drop		Between Access Holes			
VIDEO INSPECTION	N/A	No Perforations, Dents or Dimples, No Bellies > 0.02'	Public Works Policy No 2012-2	Between Access Holes			
5. CONCRETE CURB, GUTTER & SIDEWALK							
CONCRETE	CLASS 35B - Approved Mix Design Required with Min Cement Content of 560 Lb/CY, Max Water/Cement Ratio of .44, a WRA, and an AEA	AASHTO T-22 Compressive Strength of Concrete AASHTO T-23 Making Test Specimens AASHTO T-119 Slump of Hydraulic Cement Concrete AASHTO T-152 Air Content of Freshly Mixed Concrete AASHTO T-309 Temperature of Freshly Mixed Concrete WAQTC TM-2 Sampling Freshly Mixed Concrete	Min. 28 day Compressive Strength = 3000 psi; Water/Cement Ratio shall be 0.5 lb/lb Max. Slump = 5 inches Air Content Percent = 6.5% ± 1.5 Temperature = 50°F - 80°F	1 of Each Test Minimum per Day, or 1 of Each Test per 50 CY			
CRUSHED AGGREGATE BASE COURSE	3/4" minus Crushed Aggregate (4" Max. Lift) (Current ITD Spec 703.04) OR 5/8" minus Crushed Aggregate (4" Max. Lift) (Current WDOT/M41-10 Spec 9-03.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	1 Tests Per 500 LF-Min 2 Tests			
ALIGNMENT AND GRADE	N/A	Visual	+ 0.02' from Design Grade/Alignment	Per 10' Section	City Approval		
JOINTS/FLATNESS/STRAIGHTNESS	N/A	Visual	+ 0.02/10' Segment	Per 10' Section			
FINISH	N/A	Visual	Floated, Uniform, Light Broom Finish	Entire Surface Area			
6. ASPHALTIC CONCRETE PAVING							
SUPERPAVE HOT MIX ASPHALT	ITD 405 Superpave Class SP2, SP3 and SP5 (2012 ITD Spec 405 and 703.05)	Class SP2: AASHTO T-308, Asphalt Content AASHTO T-27 & T-11, Sieve Analysis WAQTC TM-8, In-Place Density of Bituminous Mixes AASHTO T-209, Theoretical Maximum Density (RICE) Class SP3 and SP5: AASHTO T-308, Asphalt Content AASHTO T-27 & T-11, Sieve Analysis AASHTO T-166 Method A, Air Voids, and Voids in Mineral Aggregates (VMA) WAQTC TM-8, In-Place Density of Bituminous Mixes AASHTO T-209, Theoretical Maximum Density (RICE)	ITD Section 405.03 Asphalt Content - CJMF Value +/- 0.3% Sieve Analysis - Table 405.03-5 Air Voids - 4.0 +/- 1.0% Voids in Mineral Aggregates, at N design 703.05 Minimum Value 0.05b Voids Filled with Asphalt - Table 703.05-1 +/- 5 In-Place Density - 92-95% of Maximum Theoretical	1 Test Per 750 Ton; Minimum of 1 Test per Project. Random Sample Locations Determined by City Engineer.			
CRUSHED AGGREGATE BASE COURSE*	Same test requirement as under 5. Concrete Curb, Gutter & Sidewalk						
7. EROSION & SEDIMENT CONTROLS							
	Per Approved Plan	Per Plan and Manufacturers' Instructions		1/Wk or After Every Rainfall			
8. TRAFFIC CONTROL							
	Per Approved Plan	Current Adopted MUTCD/ATSSA		Continuous			
9. PRIVATE STORMWATER SYSTEM							
	Per Approved Plan	City Resolution #80-100	Certified & Visual by City	Before Public Improvements Accepted	Certified & Visual by City - Underground infrastructure elements must be approved by City prior to backfill.		
10. RECORD DRAWINGS							
11. ENGINEER'S CERTIFICATION							
Date Last: Revised September 2016							



RIEDEL Engineering

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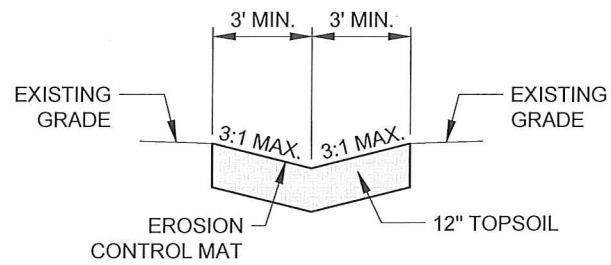
PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

GENERAL NOTES, ABBREVIATIONS & LEGEND

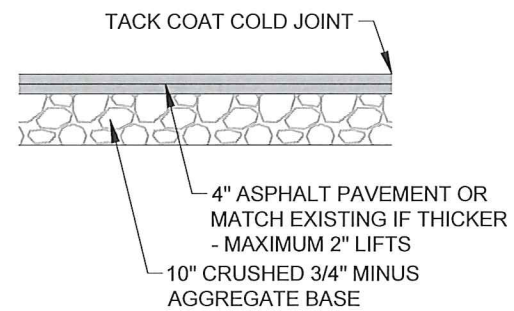
NO.	DATE	BY	DESCRIPTION
1	12-4	RLH	DRAWINGS OF RECORD
2			
3			
4			
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6			
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8			
9			
10			

DESIGNED: WDR
CHECKED: RLH
DETAILED: RLH
DRAWING CHECKED: WDR
FILE NAME: 2635-NOTES.dwg
DRAWING DATE: 12/1/17
DRAWING SCALE: AS SHOWN
SHEET: 2 OF 19

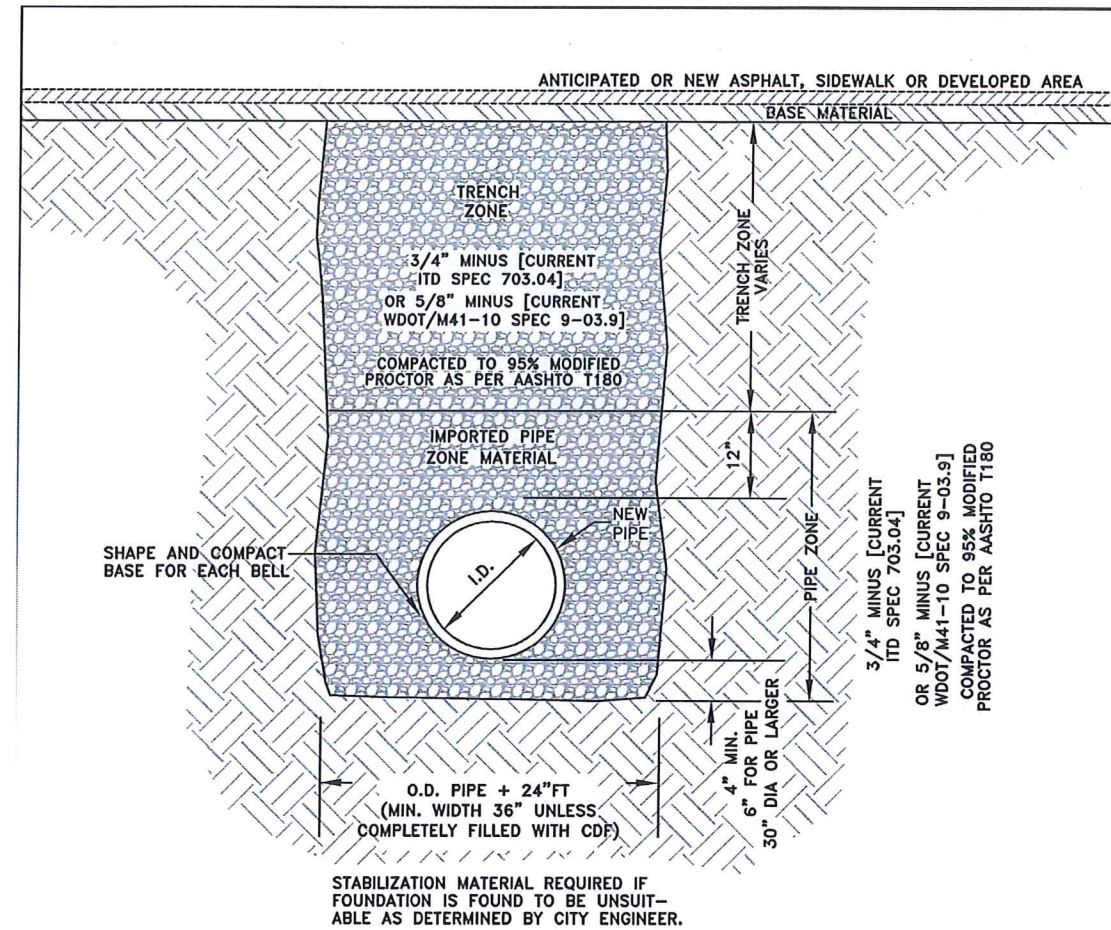




A SWALE DETAIL
3 N.T.S.



B STREET PATCH DETAIL
3 N.T.S.



CLASS 'D' 'NEW STREET CONSTRUCTION' BACKFILL SHALL BE USED IN AREAS WHERE ASPHALT PAVEMENT, CONCRETE CURB, SIDEWALK, DRIVEWAYS & GRAVEL SURFACING IS ANTICIPATED.

NOTES:

1. CONTRACTOR SHALL COMPLY WITH THE MOST CURRENT OSHA REQUIREMENTS FOR EXCAVATIONS.
2. CLASS 'D' BACKFILL SHALL COMPLY WITH REQUIREMENTS OF THE CITY'S STANDARDS CONSTRUCTION SPECIFICATIONS.
3. TRENCH MATERIAL SHALL BE PLACED IN MAX. OF 6" LIFTS.
4. IN EXISTING RIGHT-OF-WAY TRENCH EXCAVATION SHALL NOT BE MORE THAN 100 FEET AHEAD OF THE PIPE LAYING OPERATION.
5. TRENCHES ARE TO BE BACKFILLED AT THE END OF EACH DAY.
6. ANY ALTERATIONS TO THIS STANDARD MUST HAVE WRITTEN APPROVAL BY CITY ENGINEER.

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
BACKFILL CLASS 'D'	
APPROVED FOR PUBLICATION <i>Shawn J. Stubbins</i> City Engineer	DATE 3/5/13
DWG. NO. 1-6	

...Current Stds\1-General\BackFill_ClassD.dwg

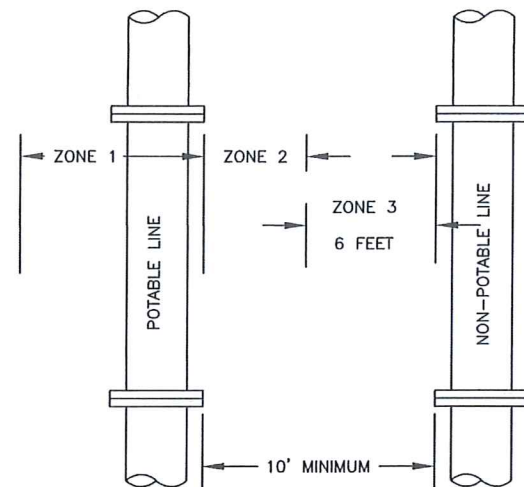


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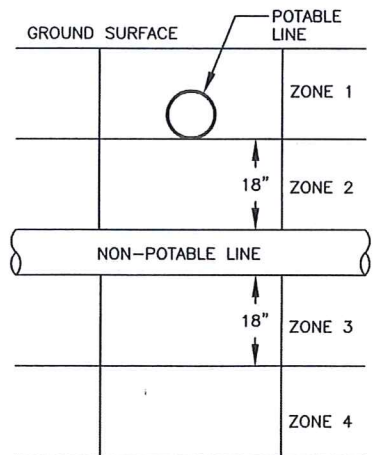
PORT OF LEWISTON 2017 PORT GRADING PROJECT 2017		DETAILS	
DESIGNED WDR	DESIGN CHECKED RLH	FILE NAME 2635-SECDDET.dwg	DRAWING DATE 12/1/17
DRAWING CHECKED WDR	DRAWING DATE 12/1/17	DRAWING SCALE AS SHOWN	SHEET 3 OF 19
NO.	DATE	BY	DESCRIPTION
1	12-4	RLH	DRAWINGS OF RECORD
2			
3			
4			
5			
6			





HORIZONTAL REQUIREMENTS:
ZONE 1: MORE THAN 10 FEET APART
 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
 i. Potable mains higher in elevation than the non-potable mains and
 ii. Non-potable mains constructed to with potable water class pipe and pressure tested for water tightness.
ZONE 3: CLOSER THAN 6 FEET APART
 NOT ALLOWED

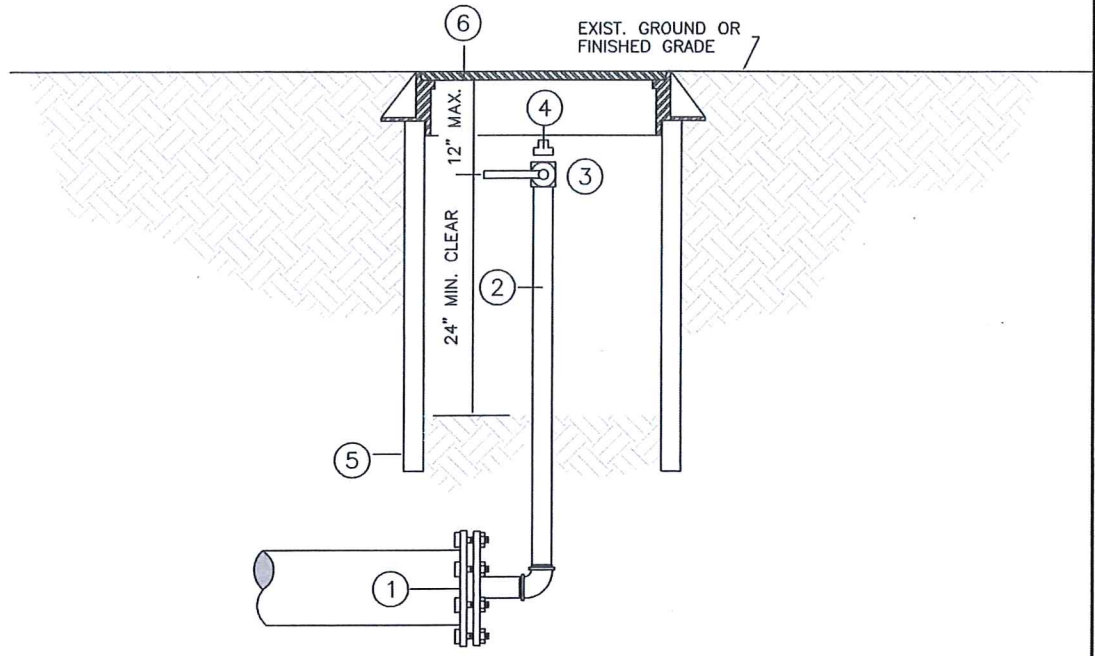
VERTICAL REQUIREMENTS:
ZONE 1: POTABLE LINE 18" OVER NON-POTABLE LINE
 Potable water and non-potable mains and service lines must be separated by at least 18 inches and
 One full, uncut length of non-potable pipe must be centered on the crossing so that the joints are as far as possible from the crossing.
ZONE 2: POTABLE LINE < 18" OVER NON-POTABLE LINE
 One full, uncut length of non-potable pipe must be centered on the crossing so that the joints are as far as possible from the non-potable line and either a or b
 a) Non-potable line must be constructed to potable water pipe standards and pressure tested for water tightness for a horizontal distance of ten feet on both sides of the crossing.
 b) Non-potable or potable line must be cased in a larger diameter carrier pipe for a horizontal distance of ten feet on both sides of the crossing, with no joints.
ZONE 3: POTABLE WATER < 18" UNDER NON-POTABLE LINE
 Same requirements as Zone 2 except the non-potable line must also be supported above the crossing to prevent settling.
ZONE 4: POTABLE WATER 18" UNDER NON-POTABLE LINE
 Same requirements as Zone 1 except the non-potable line must also be supported above the crossing to prevent settling.



GENERAL NOTES:
 1. Sewage force mains shall have at least ten feet of horizontal separation and eighteen inches of clearance from potable water mains. Zone 2 and 3 placements are prohibited.
 2. 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.

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
POTABLE & NON-POTABLE WATERLINE SEPARATION	
APPROVED FOR PUBLICATION <i>Ch. Davis</i> City Engineer	DWG. NO. 11-9-09 4-1

M:\Standards\2010-Standards\4-Water\Potable Nonpotable.dwg



- REQUIRED COMPONENTS**
1. CAP OR PLUG ON WATER MAIN
 2. 2" GALVANIZED PIPE
 3. 2" BALL VALVE
 4. 2" THREADED PLUG
 5. 24" HDPE PIPE
 6. OLYMPIC FOUNDRY MH-23 MANHOLE & COVER
 7. THRUST BLOCK OR RESTRAINTS (NOT SHOWN)

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
COMBINATION BLOWOFF AND SAMPLING TAP	
APPROVED FOR PUBLICATION <i>Ch. Davis</i> City Engineer	DWG. NO. 11-9-09 4-3

*NOTE:
LOCATE WIRE TO RUN TO BLOWOFF W/ MIN. 3' SLACK

RIEDELSEL
Engineering

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Lewiston, Id. 83501
Phone: (208) 743-3818
Fax: (208) 743-3819

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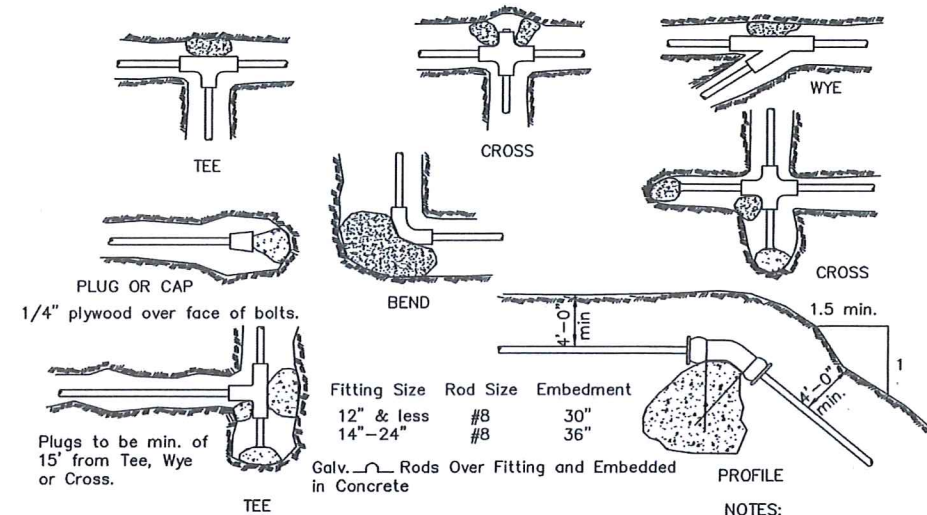
PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

DETAILS

NO.	DATE	BY	DESCRIPTION
1	12-4	RLH	DRAWING OF RECORD
2			
3			
4			
5			
6			

DESIGNED: WDR
 DESIGN CHECKED: RLH
 DETAILED: WDR
 DRAWING CHECKED: RLH
 FILE NAME: 2836-SECDET.dwg
 DRAWING DATE: 12/1/17
 DRAWING SCALE: AS SHOWN
 SHEET: 4 OF 19

PROFESSIONAL ENGINEER
REGISTERED
7556
12/04/17
STATE OF IDAHO
REX L. HARDING



NOTES:

- Bearing areas based on test pressure of 150 p.s.i. & soil bearing stress of 2,000 lbs. per sq.ft. To areas for different test pressure & soil bearing stresses, following equation: BEARING AREA = (150 p.s.i. test pressure)x(2000 lbs soil bearing stress)x(table value).
- Concrete thrust blocking to be placed against undisturbed earth.
- Keep concrete clear of joint and accessories.
- The required thrust bearing areas for special connections are shown encircled on the plans; e.g. 15 indicates 15 sq. ft. bearing area required.
- If not shown on plans, required bearing areas at fittings shall be as indicated above, adjusted if necessary, to conform to the test pressure(s) & allowable soil bearing stress(es) stated in the Special Specifications.
- Bearing areas & special blocking details shown on plans take precedence over bearing areas & blocking details shown on this standard detail.
- Concrete Compressive Strength shall be 2,500 p.s.i. minimum.
- Concrete will be allowed 48 hrs. to set if high early yield concrete is used, otherwise, 7 days curing will be required.

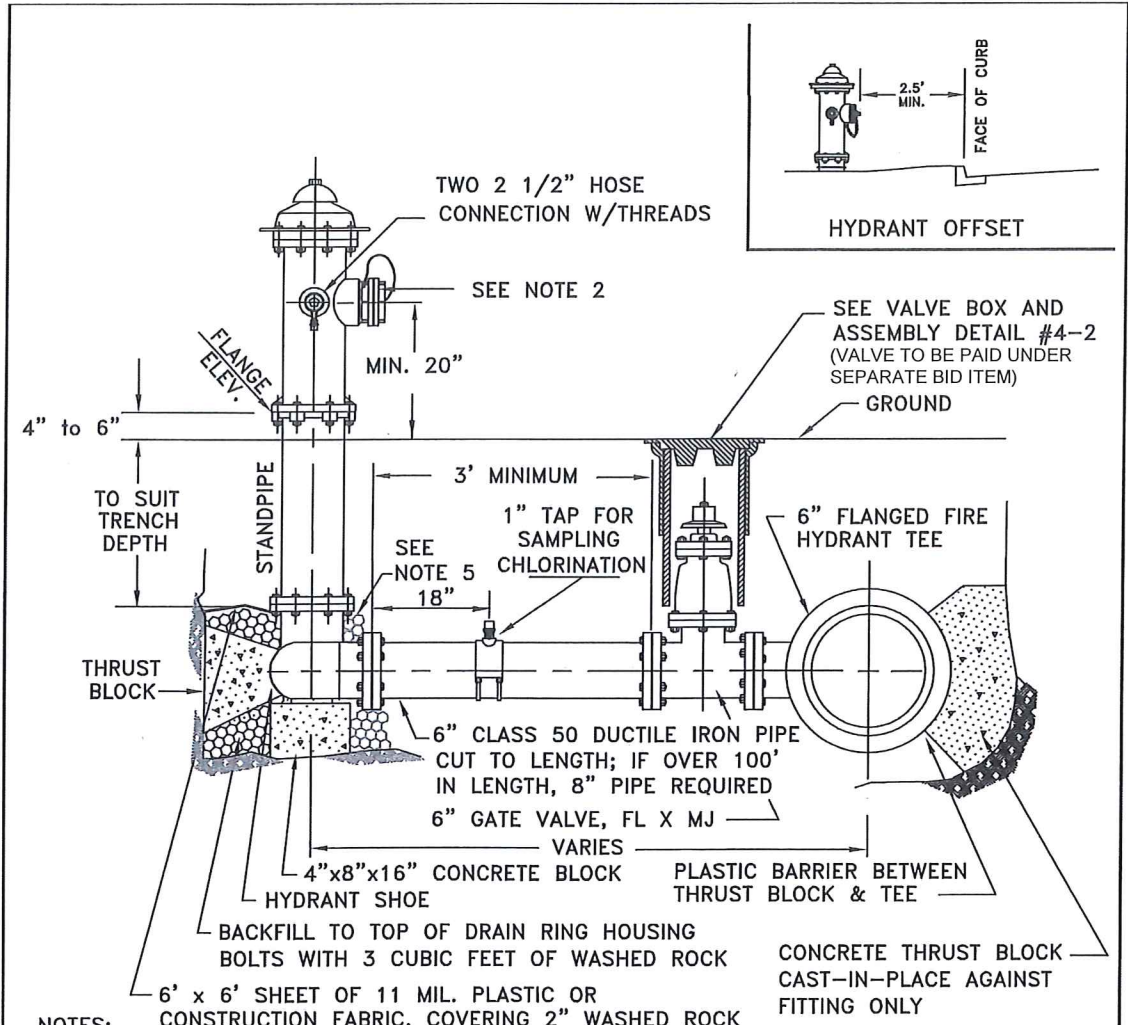
NOTE:
Above volumes based on test pressure of 150 p.s.i. & the weight of concrete = 4050 lbs./cu.yd. To compare volumes for different test pressures use the following equation:
VOLUME = (150 p.s.i. test pressure) x (table value).
Thrust blocks for vertical up-bends shall be the same as for horizontal bends.
M:\Standards\2010-Standards\4-Water\Thrust Blocking.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

**THRUST BLOCKING
DETAIL**

APPROVED FOR PUBLICATION
Ch. [Signature] 11-9-09
City Engineer Date

DWG. NO.
4-4



- NOTES:
- FIRE HYDRANT SHALL BE MUELLER SUPER CENTURION, WATEROUS PACER WITH 16" UPPER STANDPIPE OR EAST JORDAN IRON WORKS WATERMASTER.
 - HARRINGTON STORZ ADAPTER (4 1/2" NH x 5" STORZ) AND BLIND CAP (5" STORZ) W/ AIRCRAFT CABLE AT THE 4 1/2" PUMPER NOZZLE.
 - FIRE HYDRANT SHALL BE SPACED AT A MAX. OF 500 FEET IN RESIDENTIAL AREAS AND 300 FEET IN COMMERCIAL AREAS.
 - A MINIMUM 3 FOOT RADIUS OF UNOBSTRUCTED WORKING AREA SHALL BE PROVIDED AROUND ALL HYDRANTS.
 - GRIP PACKS OR ALL THREAD REQUIRED WITH THRUST BLOCK.

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

**FIRE HYDRANT
W/ SHUT-OFF VALVE**

APPROVED FOR PUBLICATION
[Signature] 5/4/15
City Engineer Date

DWG. NO.
4-12

*NOTE:
LOCATE WIRE TO RUN TO HYDRANT & VALVE W/ MIN. 3' SLACK



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PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

DETAILS

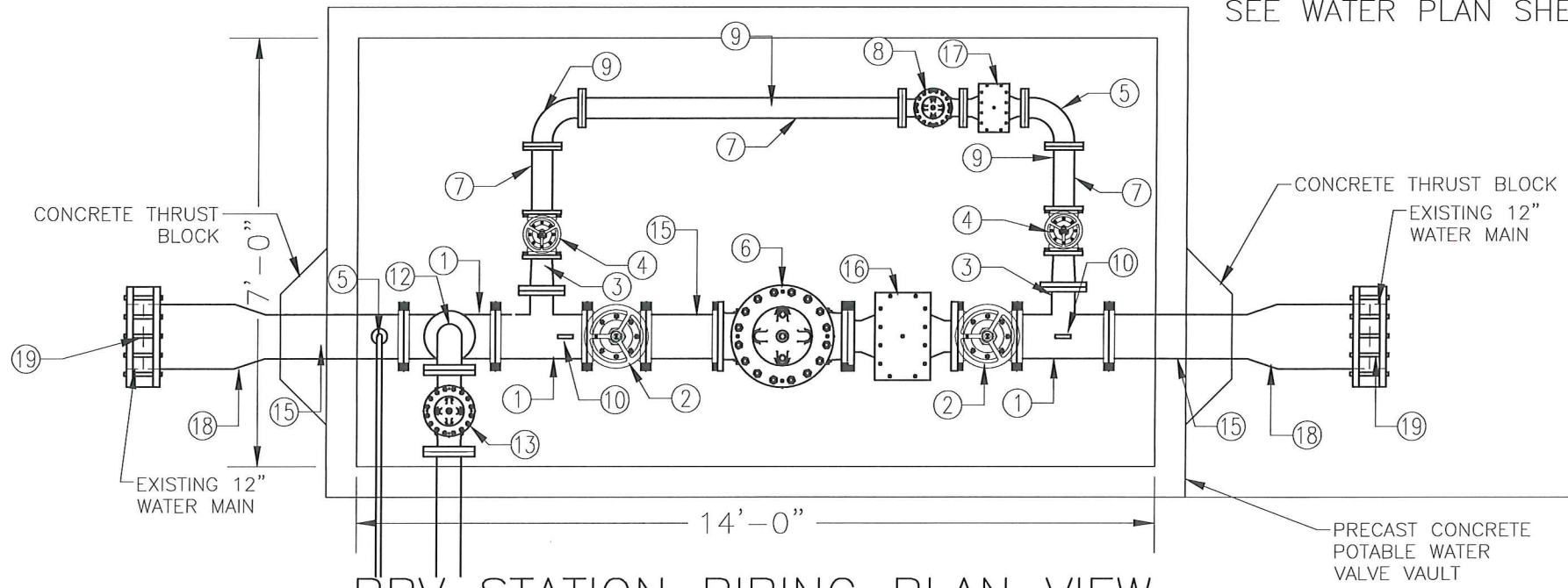
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DETAILED: WDR
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FILE NAME: 2035-SECDET.dwg
DRAWING DATE: 12/1/17
DRAWING SCALE: AS SHOWN
SHEET 5 OF 19

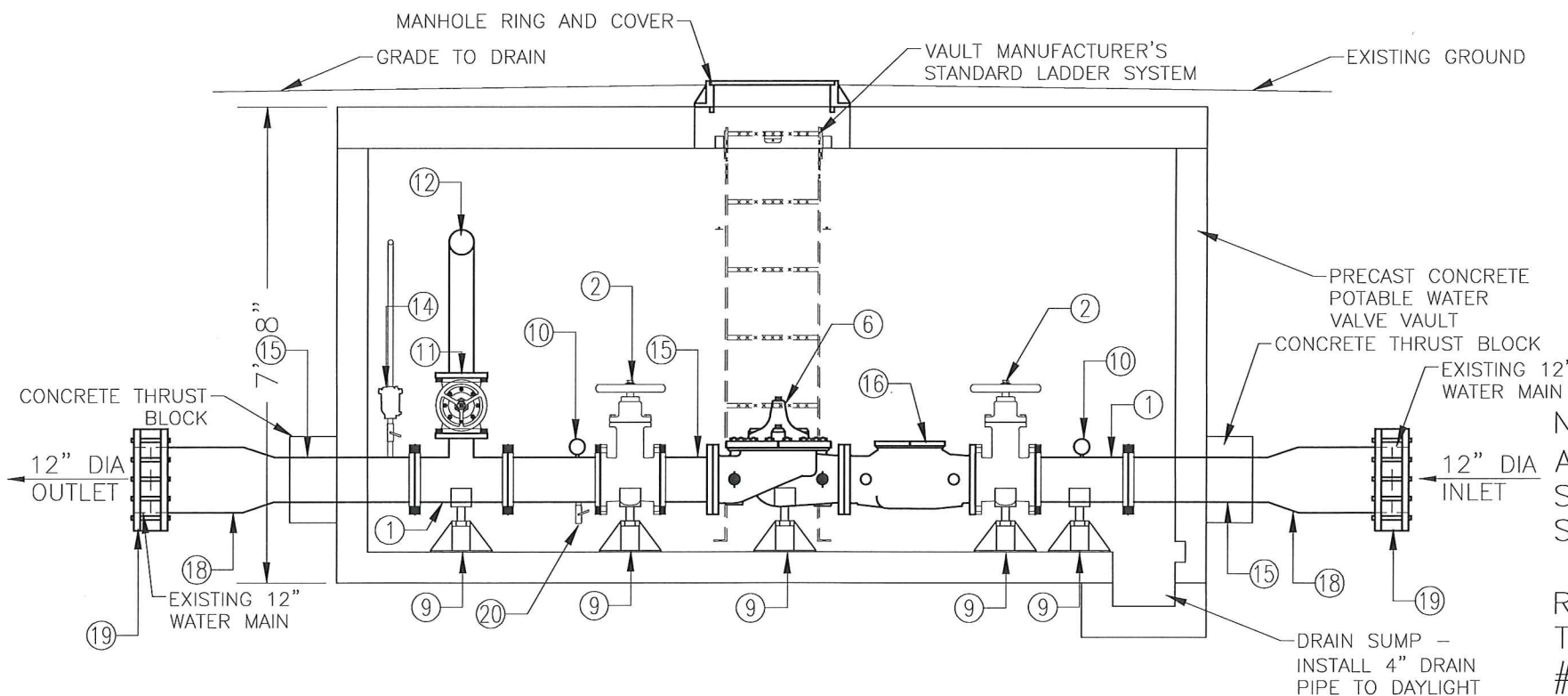
PROFESSIONAL ENGINEER
REGISTERED
7558
5/20/17
STATE OF IDAHO
REX L. HARDING

SEE WATER PLAN SHEET FOR PRV STATION LOCATION



PRV STATION PIPING PLAN VIEW

SCALE: 1" = 3/8"



PRV STATION PIPING PROFILE VIEW

SCALE: 1" = 3/8"

PRV STATION PIPING	
NUM	DESCRIPTION
①	8" X 4" TEE, FLG X FLG X FLG W/ 3/4" TAPPED HOLE(S)
②	8" GATE VALVE, FLG
③	4" X 3" REDUCER, FLG
④	3" GATE VALVE, FLG
⑤	3" 90° LR ELBOW, FLG
⑥	8" PRV, CLA-VAL 90-01 OR EQUAL
⑦	3" D.I. SPOOL, FLG
⑧	3" PRV, CLA-VAL 90-48 OR EQUAL
⑨	ADJUSTABLE PIPE SUPPORT
⑩	PRESSURE GAUGE
⑪	4" GATE VALVE, FLG
⑫	4" 90° ELBOW
⑬	4" PRESSURE RELIEF VALVE, FLG
⑭	1" COMBINATION AIR VALVE
⑮	8" D.I. SPOOL, FLG
⑯	8" STRAINER, FLG
⑰	3" STRAINER, FLG
⑱	12" X 8" REDUCER, MJ
⑲	12" TRANSITION COUPLING
⑳	3/4" HOSE BID W/ BALL VALVE

NOTES:

ALL 2" AND SMALLER PIPE TO BE THREADED STAINLESS STEEL, COMPLIES WITH LEAD-FREE SPECIFICATIONS.

REINFORCEMENT: #4 BAR @ 12" O.C.E.W. THROUGHOUT
#4 BAR @ 6" O.C.E.W. IN COVER AND FLOOR

LOADING: OFF-ROADWAY - H2O OCCASIONAL LOAD RATED.

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PORT OF LEWISTON
2017 PORT GRADING PROJECT
2018

PRESSURE REDUCING STATION DETAILS

NO.	DATE	BY	DESCRIPTION
1	12-4	RLH	DRAWINGS OF RECORD
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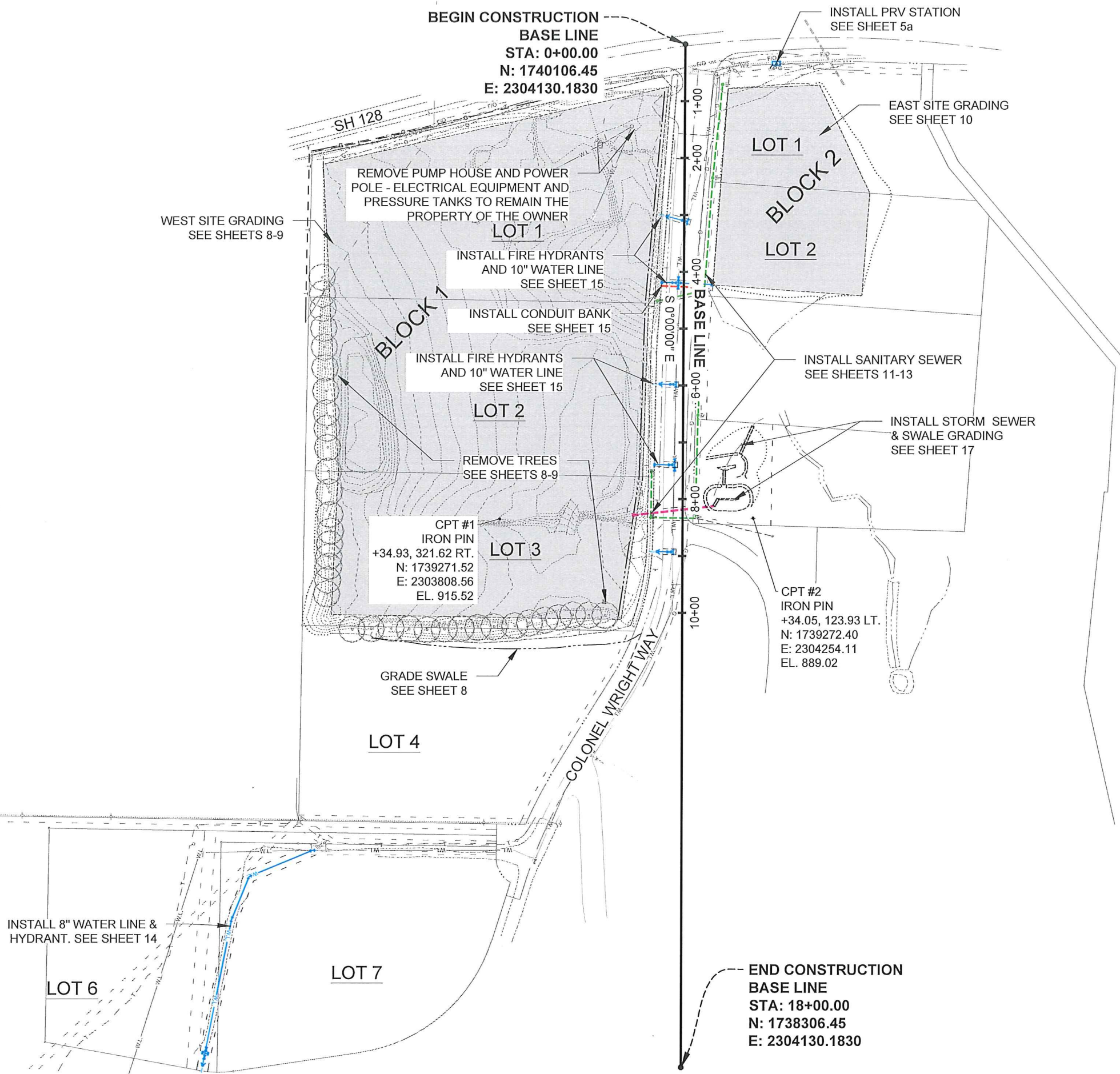
DESIGNED: WDR
CHECKED: RLH
DATE: 1/25/18

PROFESSIONAL ENGINEER
REGISTERED
7556
1/25/18
STATE OF IDAHO
REX L. HARDING

SHEET 50 OF 19

PLOT DATE: 1/25/2018
Z:\2635 2016 PORT GRADING PROJECT\CADD\2635-PRV REV.DWG

PLOT DATE: 12/1/2017
 Z:\2635 2016 PORT GRADING PROJECT\CADD\DRG\2635-PLP.DWG



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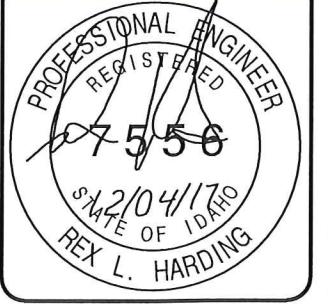
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PORT OF LEWISTON
 2017 PORT GRADING PROJECT
 2017

PROJECT LAYOUT PLAN

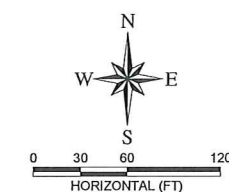
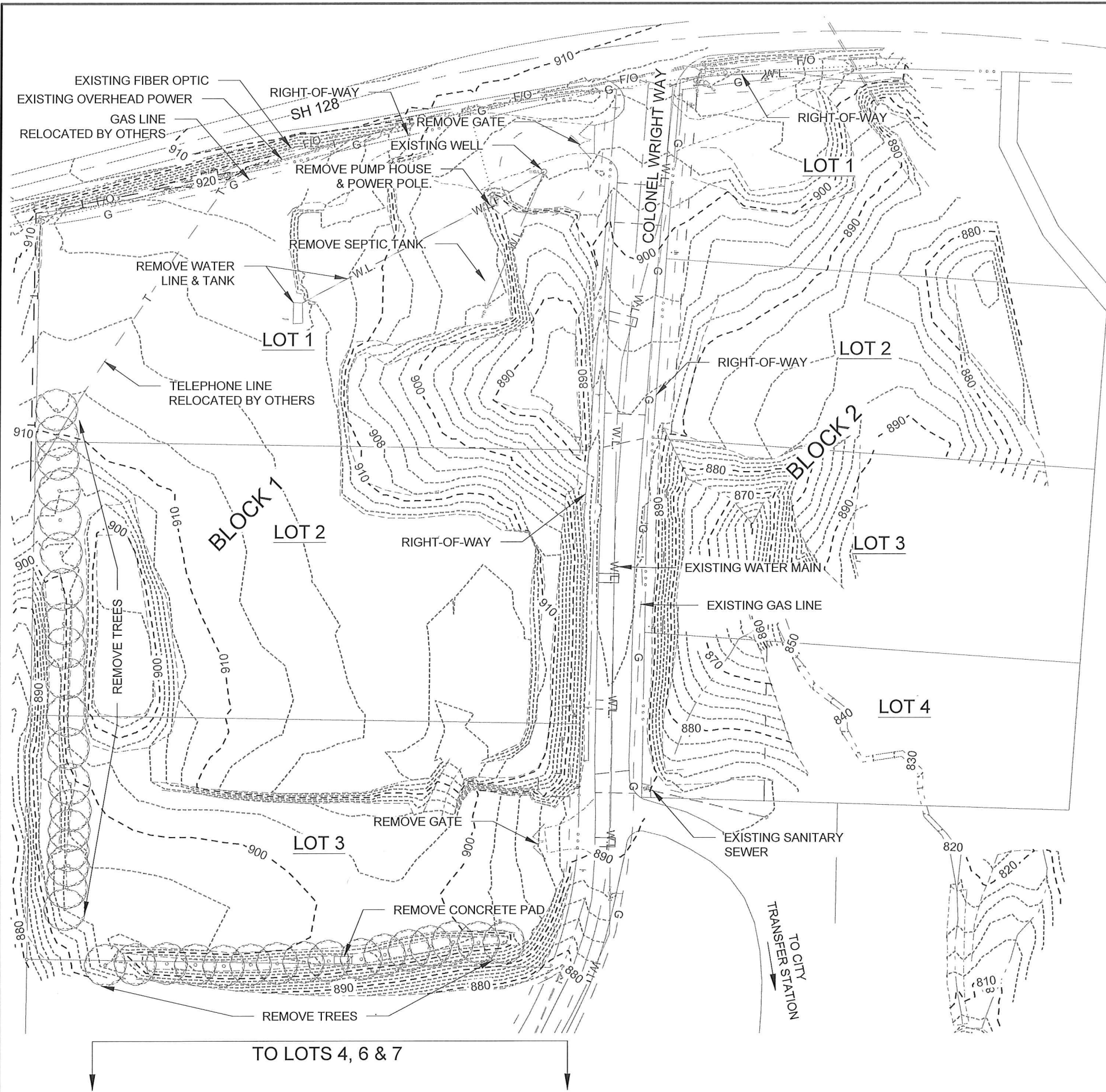
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DESIGNED	WDR
DESIGN CHECKED	RLH
DETAILED	RLH
DRAWING CHECKED	WDR
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DRAWING DATE	12/1/17
DRAWING SCALE	N.T.S.
SHEET	6 OF 19



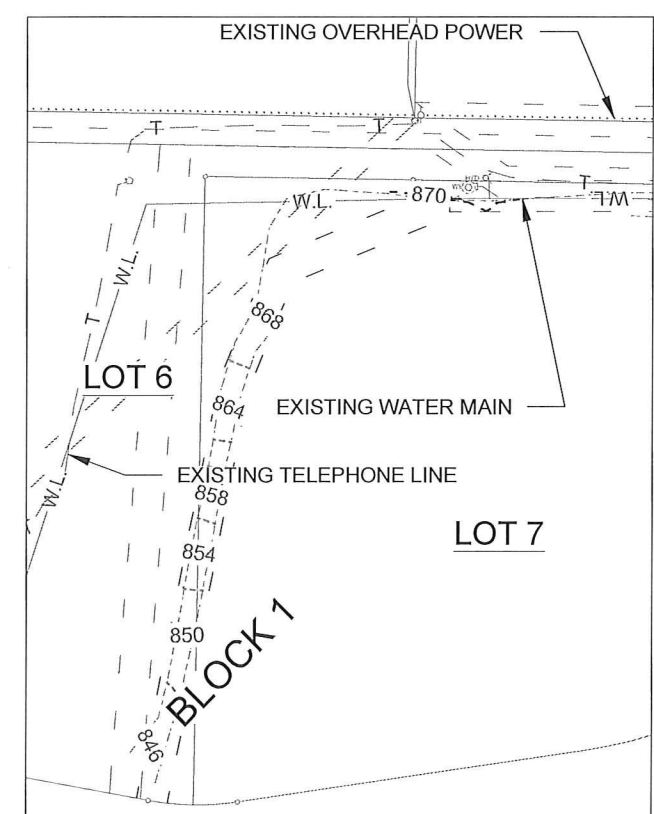
END CONSTRUCTION
 BASE LINE
 STA: 18+00.00
 N: 1738306.45
 E: 2304130.1830

PLOT DATE: 12/1/2017
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*NOTE:
 SEE GEOTECHNICAL REPORT IN REGARDS TO TOPSOIL REMOVAL AND EMBANKMENT CONSTRUCTION.

TREE AND BRUISH DISPOSAL SHALL BE IN ACCORDANCE WITH LEWISTON CITY CODE SECTION 4-11.



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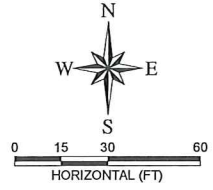
PORT OF LEWISTON
 2017 PORT GRADING PROJECT
 2017

EXISTING SITE PLAN

REVISIONS		DESCRIPTION
NO.	DATE	BY
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2		RLH
3		RLH
4		RLH
5		RLH
6		RLH
7		RLH

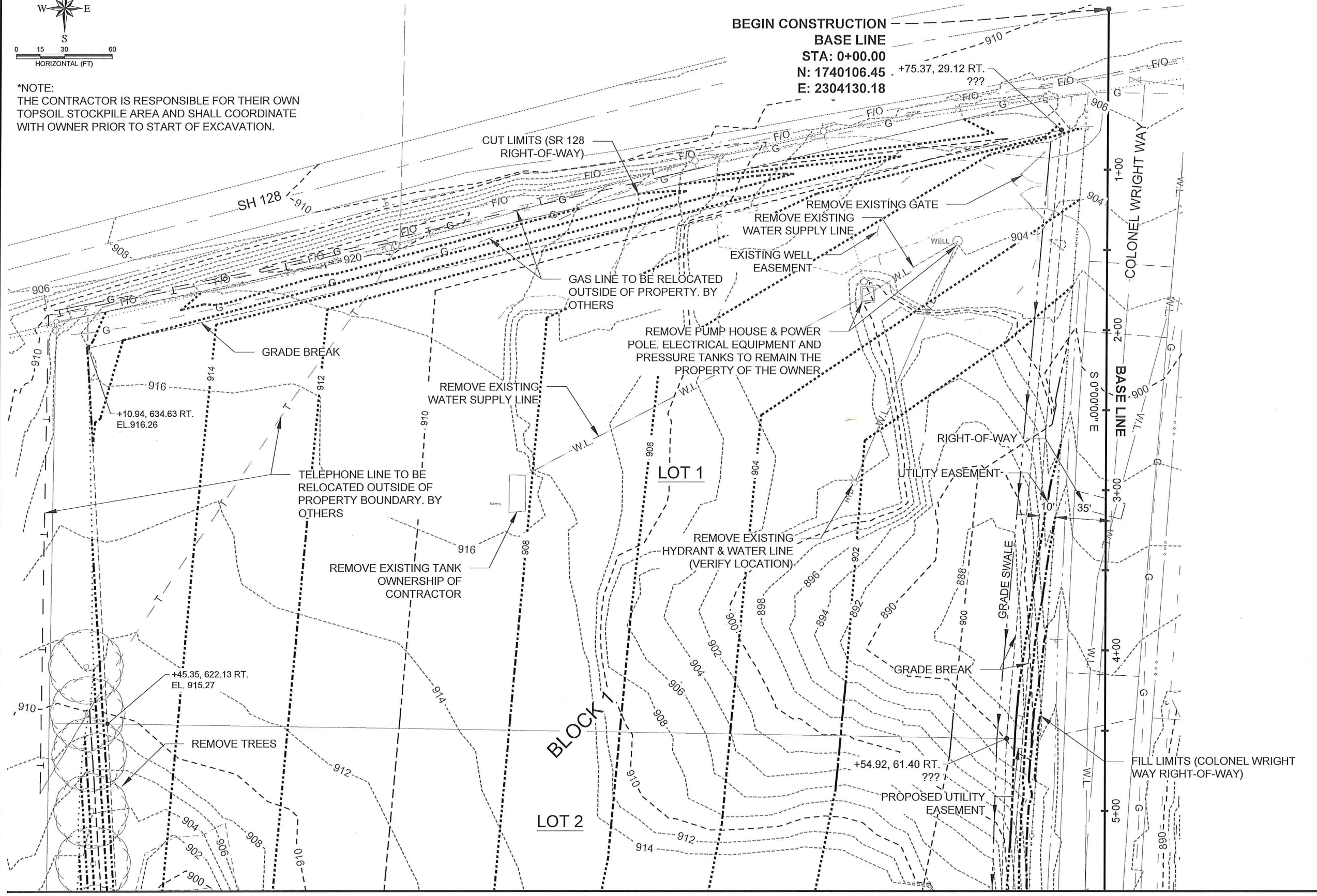
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DETAILED	RLH
DRAWING CHECKED	WDR
FILE NAME	2035-ESP.dwg
DRAWING DATE	12/1/17
DRAWING SCALE	AS SHOWN
SHEET	7 OF 19

PROFESSIONAL ENGINEER
 REGISTERED
 7556
 12/04/17
 STATE OF IDAHO
 REX L. HARDING



*NOTE:
THE CONTRACTOR IS RESPONSIBLE FOR THEIR OWN
TOPSOIL STOCKPILE AREA AND SHALL COORDINATE
WITH OWNER PRIOR TO START OF EXCAVATION.

BEGIN CONSTRUCTION
BASE LINE
STA: 0+00.00
N: 1740106.45 +75.37, 29.12 RT.
E: 2304130.18

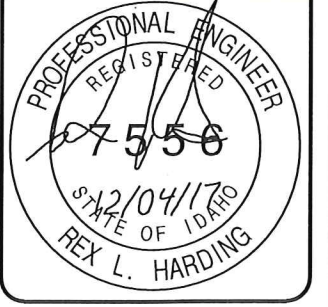


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DESIGNED		DESIGN CHECKED		DETAILED		DRAWING CHECKED		FILE NAME		DRAWING DATE		DRAWING SCALE		SHEET 8 OF 19	
WDR	RLH	WDR	RLH	WDR	RLH	WDR	RLH	2035-GRADING.DWG	12/4/17	AS SHOWN					

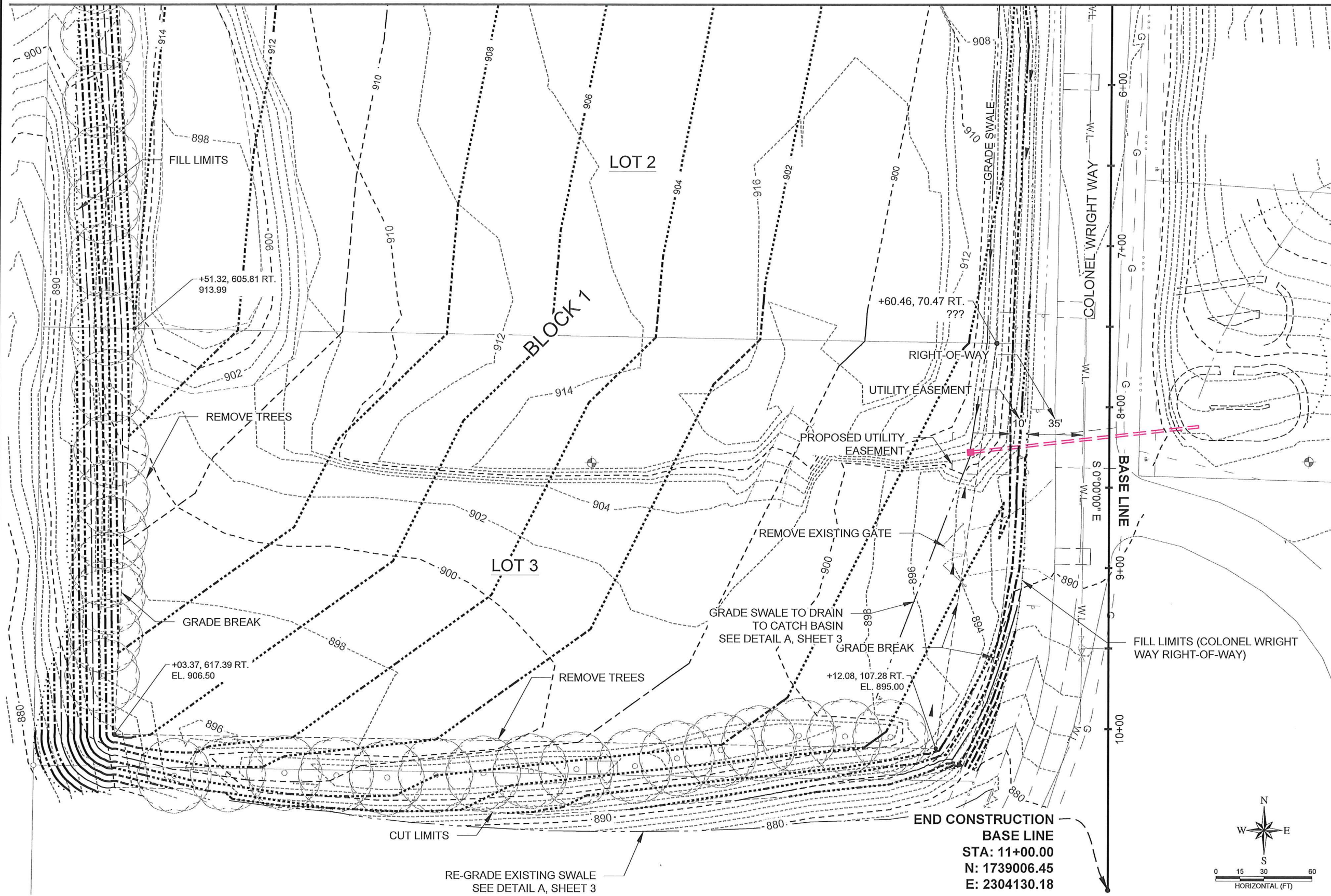
PORT OF LEWISTON 2017 PORT GRADING PROJECT 2017		WEST SITE GRADING	
REVISIONS		DESCRIPTION	
NO.	DATE	BY	DESCRIPTION
1	12/04/17	RLH	DRAWINGS OF RECORD
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PLOT DATE: 12/4/2017
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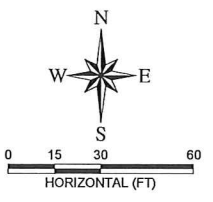
PLOT DATE: 12/4/2017
 Z:\2635 2016 PORT GRADING PROJECT\CADD\DR\2635-GRADING.DWG

MATCH LINE STA: 5+50.00



RE-GRADE EXISTING SWALE
 SEE DETAIL A, SHEET 3

END CONSTRUCTION
 BASE LINE
 STA: 11+00.00
 N: 1739006.45
 E: 2304130.18



*NOTE:
 THE CONTRACTOR IS RESPONSIBLE FOR THEIR OWN
 TOPSOIL STOCKPILE AREA AND SHALL COORDINATE
 WITH OWNER PRIOR TO START OF EXCAVATION.

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PORT OF LEWISTON
 2017 PORT GRADING PROJECT
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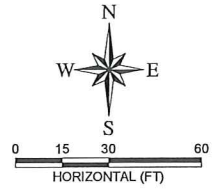
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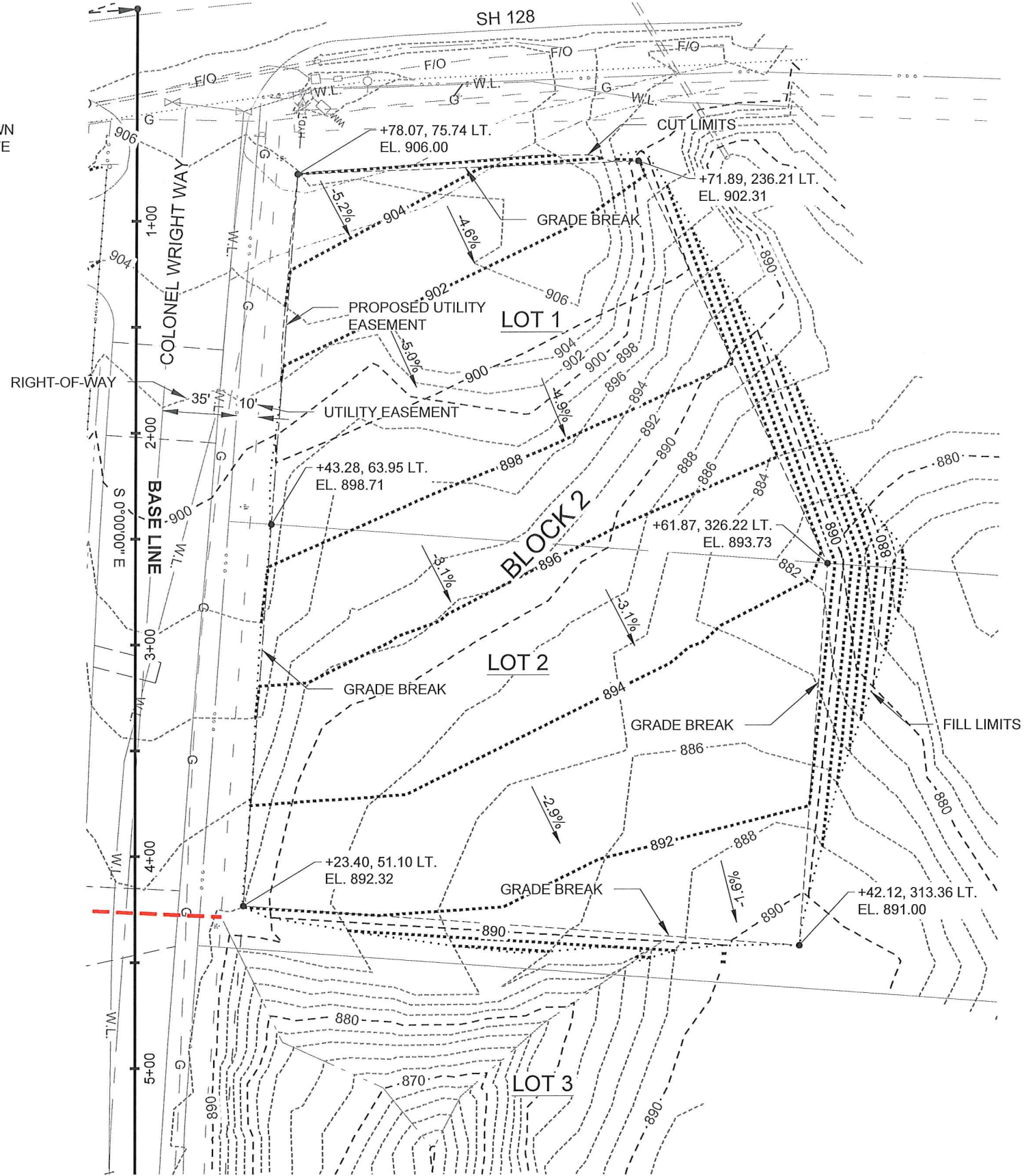
DESIGNED	DESIGN CHECKED	FILE NAME
WDR	RLH	2635-GRADING.dwg

PROFESSIONAL ENGINEER
 REGISTERED
 07556
 12/04/17
 STATE OF IDAHO
 REX L. HARDING

SHEET 9 OF 19



*NOTE:
THE CONTRACTOR IS RESPONSIBLE FOR THEIR OWN
TOPSOIL STOCKPILE AREA AND SHALL COORDINATE
WITH OWNER PRIOR TO START OF EXCAVATION.



PLOT DATE: 12/4/2017
Z:\2635 2016 PORT GRADING PROJECT\CADD\DR\2635-GRADING.DWG



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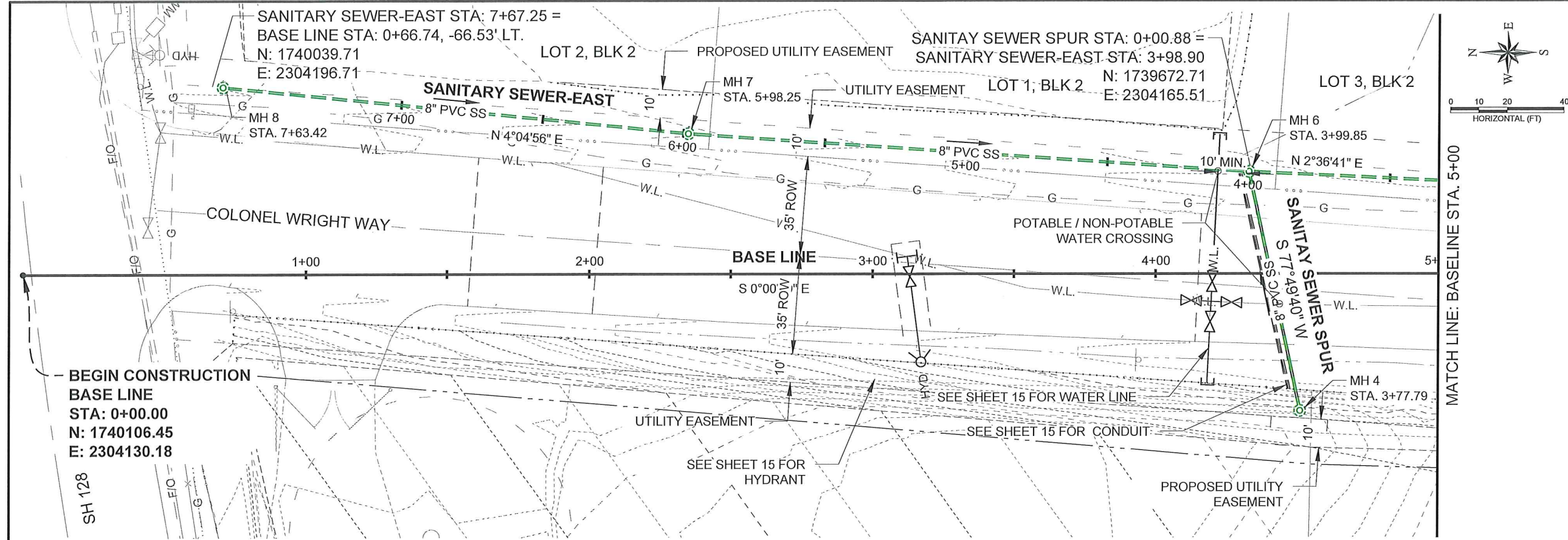
PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

EAST SITE GRADING		REVISIONS	
NO.	DATE	BY	DESCRIPTION
1	12/04/17	RLH	DRAWINGS OF RECORD

DESIGNED	WDR
DESIGN CHECKED	RLH
DETAILED	
DRAWING CHECKED	WDR
FILE NAME	2635-GRADING.dwg
DRAWING DATE	12/4/17
DRAWING SCALE	AS SHOWN
SHEET	10 OF 19



PLOT DATE: 12/4/2017
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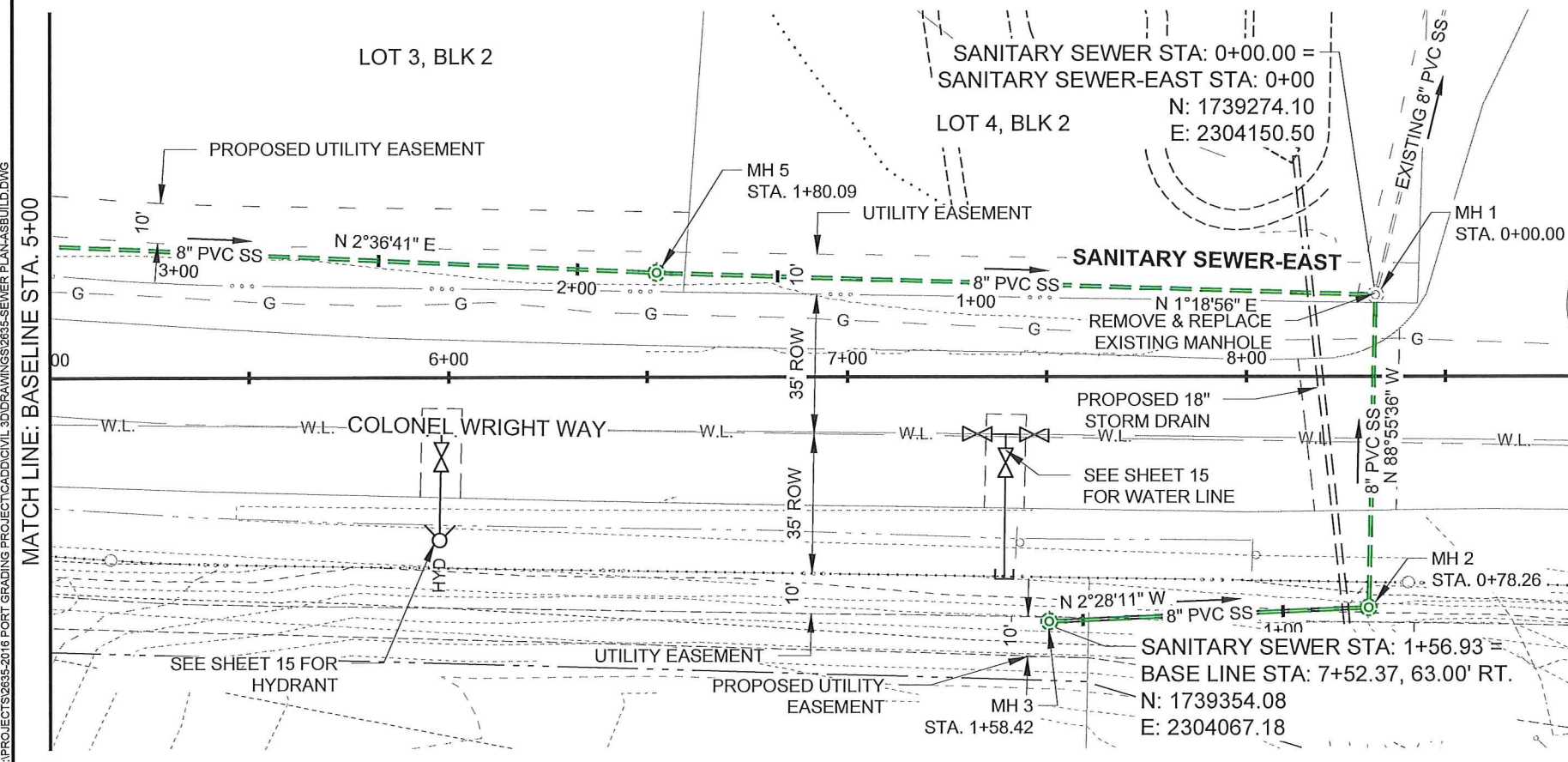


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NOTE: SEE SHEETS 12-13 FOR SANITARY SEWER PROFILES



SANITARY SEWER NOTES

- SEWER PIPE BEDDING MATERIALS SHALL BE IN ACCORDANCE WITH THE ISPWC TECHNICAL SPECIFICATIONS AND CITY OF LEWISTON INSPECTION CHECKLIST.
- THE CONTRACTOR SHALL MAINTAIN A 10' MINIMUM HORIZONTAL AND 18" MINIMUM VERTICAL SEPARATION BETWEEN POTABLE AND NON-POTABLE PIPES, IN ACCORDANCE WITH THE IDAPA 58.01.08.542.07b. NON-POTABLE INCLUDES SEWER, GRAVITY IRRIGATION, PRESSURE IRRIGATION AND REUSED WATER. SEE CITY STD DWG 4-1.
- SEWER PIPE SHALL BE PVC PIPE MEETING OR EXCEEDING THE REQUIREMENTS OF ASTM D3034 SDR 35 SEWER PIPE. ALL SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH ISPWC STANDARDS AND CITY INSPECTION CHECKLIST.
- INSTALL SEWER SERVICE LINES. A MAXIMUM OF FIVE CONNECTIONS ARE EXPECTED. LOCATED AS DIRECTED BY ENGINEER.
- FIELD VERIFY EXISTING MANHOLE ELEVATIONS AND INVERTS AND SEWER LINE SLOPE PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL GRADE SLOPES AROUND MANHOLES AT MAXIMUM OF 2% FOR 5' FROM MANHOLE AND THEN MATCH TO EXISTING GROUND OR FINISH GRADE AT A MAXIMUM SLOPE OF 2:1.
- FIELD VERIFY GAS LINE LOCATION AND SIZE FROM SEWER STATION 7+00 TO 7+78. SHIFT SEWER LINE AND MANHOLE EAST TO AVOID CONFLICT IF NECESSARY.
- SEE CITY STD DWG 5-8 FOR MANHOLE LID ORIENTATION.

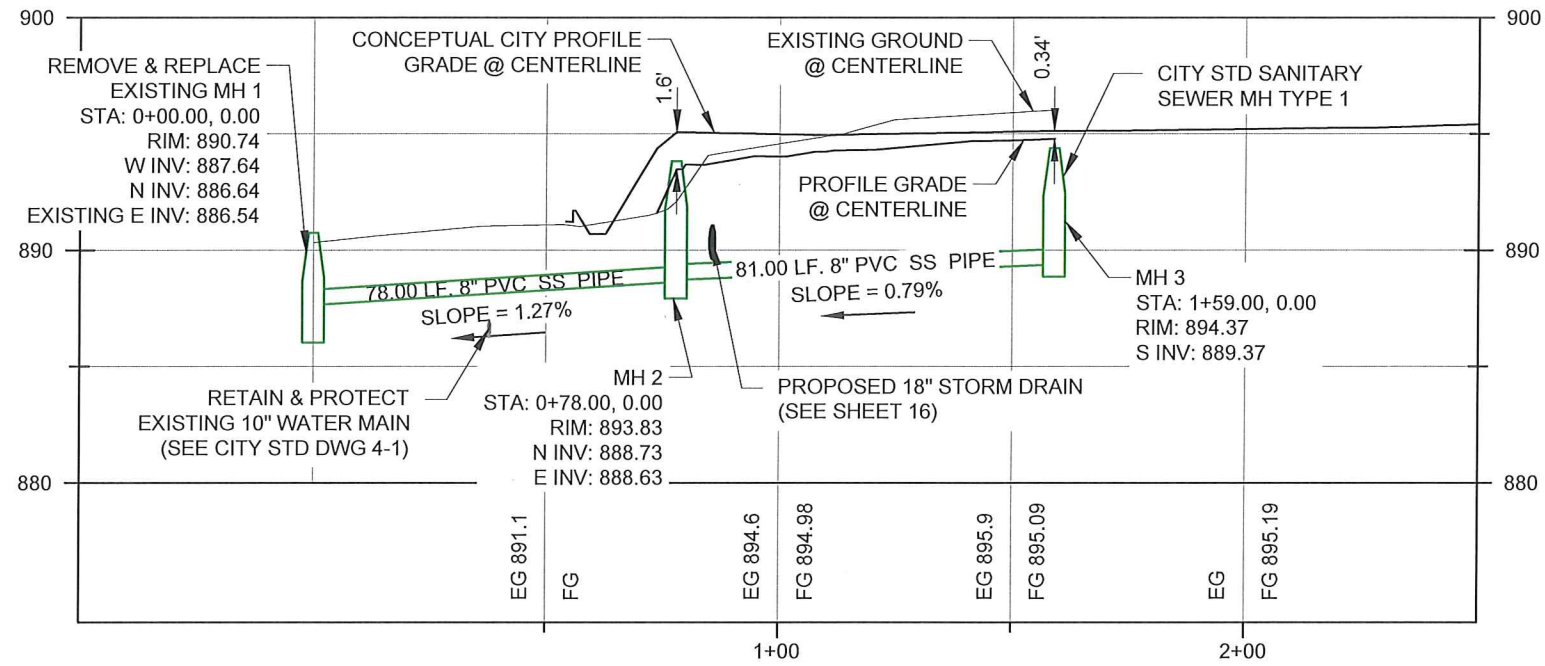
PORT OF LEWISTON
 2017 PORT GRADING PROJECT
 2017

SANITARY SEWER PLAN

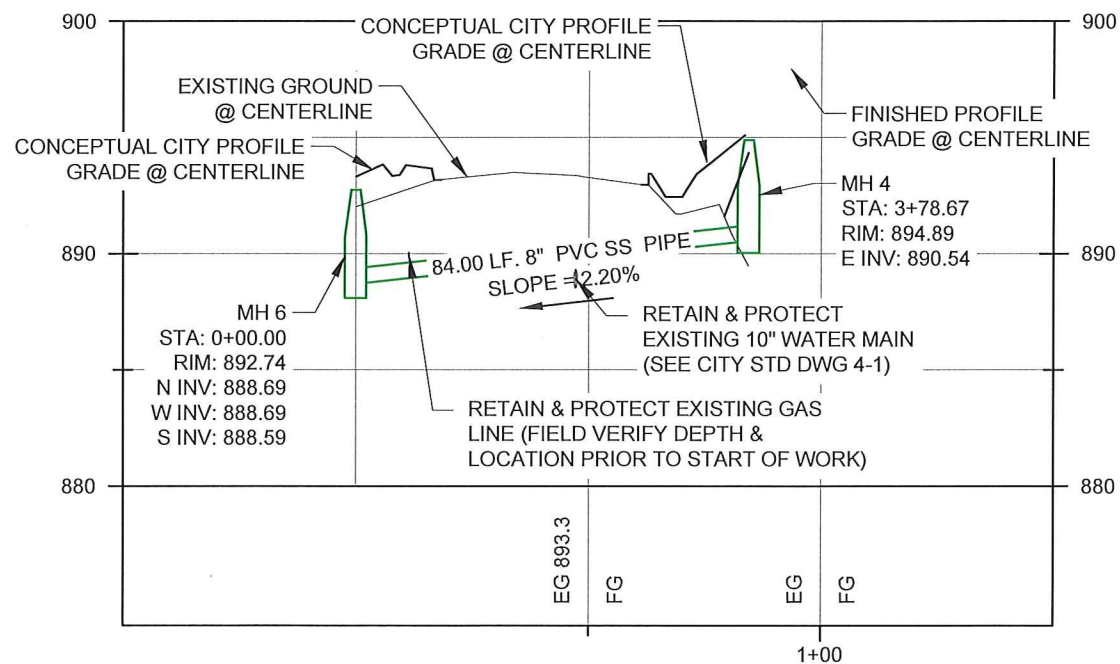
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DESIGNED: WDR
 DESIGN CHECKED: RLH
 DETAILED: RLH
 DRAWING CHECKED: WDR
 FILE NAME: 2635-SEWER PLAN-AS-BUILD.dwg
 PLAN ASSEMBLING DATE: 12/4/17
 DRAWING SCALE: AS SHOWN
 SHEET 11 OF 19

PROFESSIONAL ENGINEER
 REGISTERED
 07556
 12/04/17
 DATE OF IDADO
 REX L. HARDING

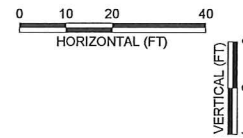


SANITARY SEWER CENTERLINE PROFILE STA: -0+50 - 2+50



SANITARY SEWER SPUR CENTERLINE PROFILE STA: -0+50 - 1+50

- NOTE:
1. USE CITY TYPE 1A MANHOLE (CITY STD DWG 5-4) FOR SHALLOW MANHOLE.
 2. IF USING SD-502, ROTATE FLAT LID T POSITION ACCESS HOLE OVER CHANNEL.



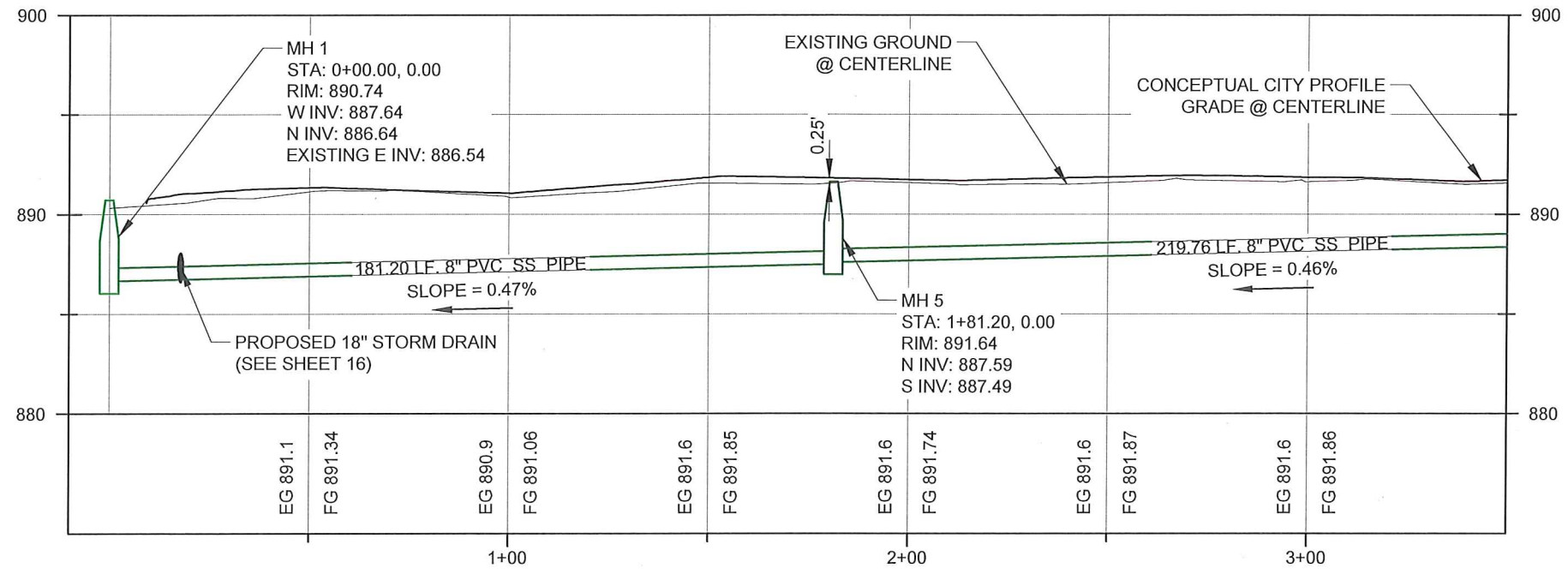
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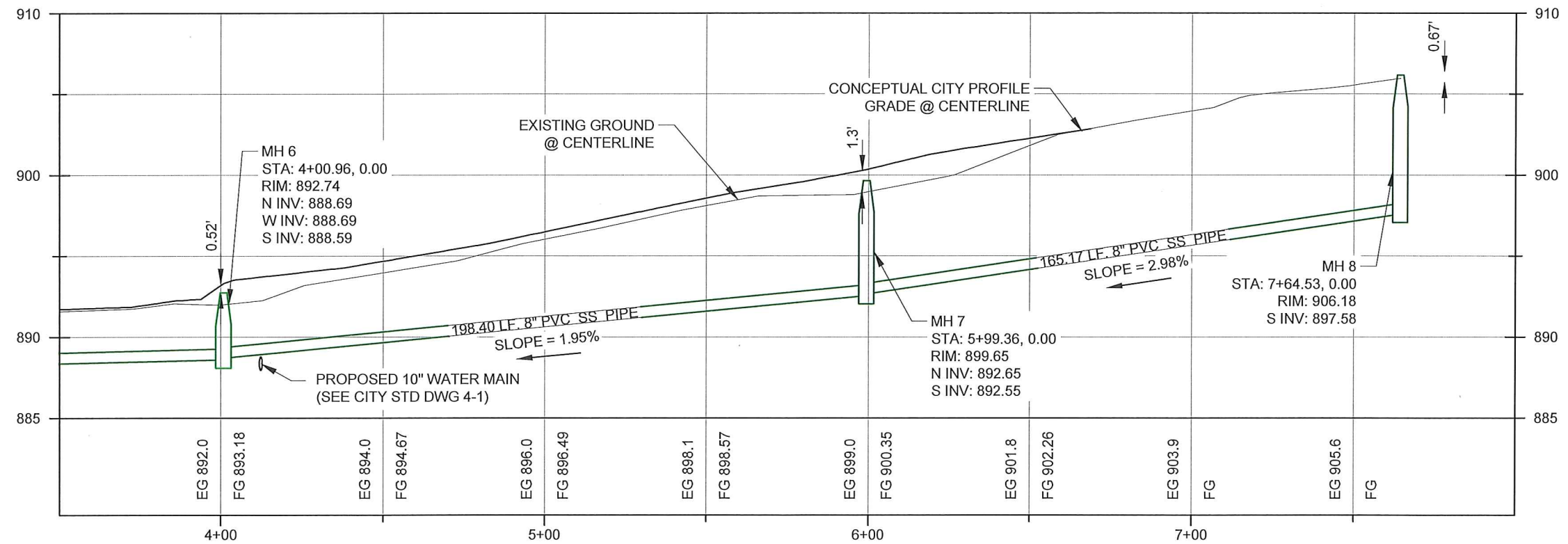
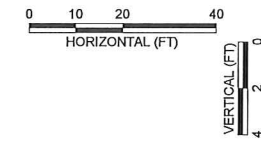
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DRAWING CHECKED	RLH	1	1/25/2018
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DRAWING DATE	1/25/18	DESCRIPTION	DRAWING OF RECORD
DRAWING SCALE	AS SHOWN		
SHEET	12 OF 19		

PROFESSIONAL ENGINEER
REGISTERED
7558
8/1/25/18
STATE OF IDAHO
REX L. HARDING

PLOT DATE: 1/25/2018
 Z:\2015\2016 PORT GRADING PROJECT\CADD\DRG\2015-SEWER PLAN.DWG



SANITARY SEWER-EAST CENTERLINE PROFILE STA: -0+10 - 3+50



SANITARY SEWER-EAST CENTERLINE PROFILE STA: 3+50 - 8+00



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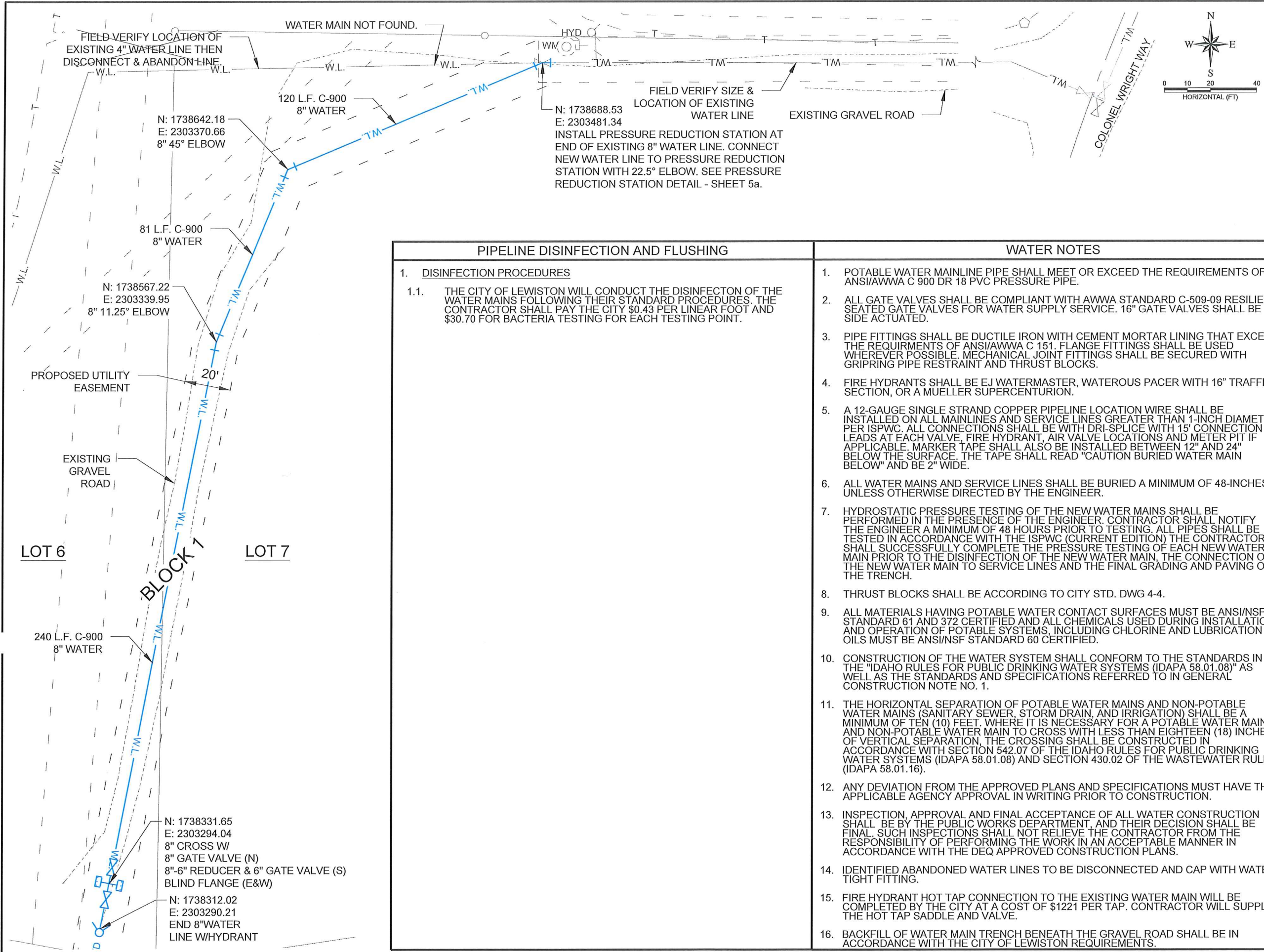
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DESIGNED		WDR		DATE		1/25/2018	
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DETAILED		RLH		REVISIONS		NO.	
DRAWING CHECKED		RLH		DESCRIPTION		DRAWINGS OF RECORD	
FILE NAME		2015-SEWER PLAN.dwg		DRAWING DATE		1/25/18	
DRAWING SCALE		AS SHOWN		SHEET		13 OF 19	

PORT OF LEWISTON
 2017 PORT GRADING PROJECT
 2018
 EAST SANITARY SEWER PROFILE

PROFESSIONAL ENGINEER
 REGISTERED
 7556
 1/25/18
 STATE OF IDAHO
 REX L. HARDING

PLOT DATE: 12/4/2017
 Z:\9835 2016 PORT GRADING PROJECT\CADD\DR2635-WATER PLAN.DWG



PIPELINE DISINFECTION AND FLUSHING

1. DISINFECTION PROCEDURES
 - 1.1. THE CITY OF LEWISTON WILL CONDUCT THE DISINFECTION OF THE WATER MAINS FOLLOWING THEIR STANDARD PROCEDURES. THE CONTRACTOR SHALL PAY THE CITY \$0.43 PER LINEAR FOOT AND \$30.70 FOR BACTERIA TESTING FOR EACH TESTING POINT.

WATER NOTES

1. POTABLE WATER MAINLINE PIPE SHALL MEET OR EXCEED THE REQUIREMENTS OF ANSI/AWWA C 900 DR 18 PVC PRESSURE PIPE.
2. ALL GATE VALVES SHALL BE COMPLIANT WITH AWWA STANDARD C-509-09 RESILIENT SEATED GATE VALVES FOR WATER SUPPLY SERVICE. 16" GATE VALVES SHALL BE SIDE ACTUATED.
3. PIPE FITTINGS SHALL BE DUCTILE IRON WITH CEMENT MORTAR LINING THAT EXCEED THE REQUIREMENTS OF ANSI/AWWA C 151. FLANGE FITTINGS SHALL BE USED WHEREVER POSSIBLE. MECHANICAL JOINT FITTINGS SHALL BE SECURED WITH GRIPRING PIPE RESTRAINT AND THRUST BLOCKS.
4. FIRE HYDRANTS SHALL BE EJ WATERMASTER, WATEROUS PACER WITH 16" TRAFFIC SECTION, OR A MUELLER SUPERCENTURION.
5. A 12-GAUGE SINGLE STRAND COPPER PIPELINE LOCATION WIRE SHALL BE INSTALLED ON ALL MAINLINES AND SERVICE LINES GREATER THAN 1-INCH DIAMETER PER ISPWC. ALL CONNECTIONS SHALL BE WITH DRI-SPLICE WITH 15' CONNECTION LEADS AT EACH VALVE, FIRE HYDRANT, AIR VALVE LOCATIONS AND METER PIT IF APPLICABLE. MARKER TAPE SHALL ALSO BE INSTALLED BETWEEN 12" AND 24" BELOW THE SURFACE. THE TAPE SHALL READ "CAUTION BURIED WATER MAIN BELOW" AND BE 2" WIDE.
6. ALL WATER MAINS AND SERVICE LINES SHALL BE BURIED A MINIMUM OF 48-INCHES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
7. HYDROSTATIC PRESSURE TESTING OF THE NEW WATER MAINS SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER. CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO TESTING. ALL PIPES SHALL BE TESTED IN ACCORDANCE WITH THE ISPWC (CURRENT EDITION) THE CONTRACTOR SHALL SUCCESSFULLY COMPLETE THE PRESSURE TESTING OF EACH NEW WATER MAIN PRIOR TO THE DISINFECTION OF THE NEW WATER MAIN, THE CONNECTION OF THE NEW WATER MAIN TO SERVICE LINES AND THE FINAL GRADING AND PAVING OF THE TRENCH.
8. THRUST BLOCKS SHALL BE ACCORDING TO CITY STD. DWG 4-4.
9. ALL MATERIALS HAVING POTABLE WATER CONTACT SURFACES MUST BE ANSI/NSF STANDARD 61 AND 372 CERTIFIED AND ALL CHEMICALS USED DURING INSTALLATION AND OPERATION OF POTABLE SYSTEMS, INCLUDING CHLORINE AND LUBRICATION OILS MUST BE ANSI/NSF STANDARD 60 CERTIFIED.
10. CONSTRUCTION OF THE WATER SYSTEM SHALL CONFORM TO THE STANDARDS IN THE "IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08)" AS WELL AS THE STANDARDS AND SPECIFICATIONS REFERRED TO IN GENERAL CONSTRUCTION NOTE NO. 1.
11. THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) SHALL BE A MINIMUM OF TEN (10) FEET. WHERE IT IS NECESSARY FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.16).
12. ANY DEVIATION FROM THE APPROVED PLANS AND SPECIFICATIONS MUST HAVE THE APPLICABLE AGENCY APPROVAL IN WRITING PRIOR TO CONSTRUCTION.
13. INSPECTION, APPROVAL AND FINAL ACCEPTANCE OF ALL WATER CONSTRUCTION SHALL BE BY THE PUBLIC WORKS DEPARTMENT, AND THEIR DECISION SHALL BE FINAL. SUCH INSPECTIONS SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER IN ACCORDANCE WITH THE DEQ APPROVED CONSTRUCTION PLANS.
14. IDENTIFIED ABANDONED WATER LINES TO BE DISCONNECTED AND CAP WITH WATER TIGHT FITTING.
15. FIRE HYDRANT HOT TAP CONNECTION TO THE EXISTING WATER MAIN WILL BE COMPLETED BY THE CITY AT A COST OF \$1221 PER TAP. CONTRACTOR WILL SUPPLY THE HOT TAP SADDLE AND VALVE.
16. BACKFILL OF WATER MAIN TRENCH BENEATH THE GRAVEL ROAD SHALL BE IN ACCORDANCE WITH THE CITY OF LEWISTON REQUIREMENTS.

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PORT OF LEWISTON
 2017 PORT GRADING PROJECT
 2017

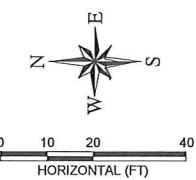
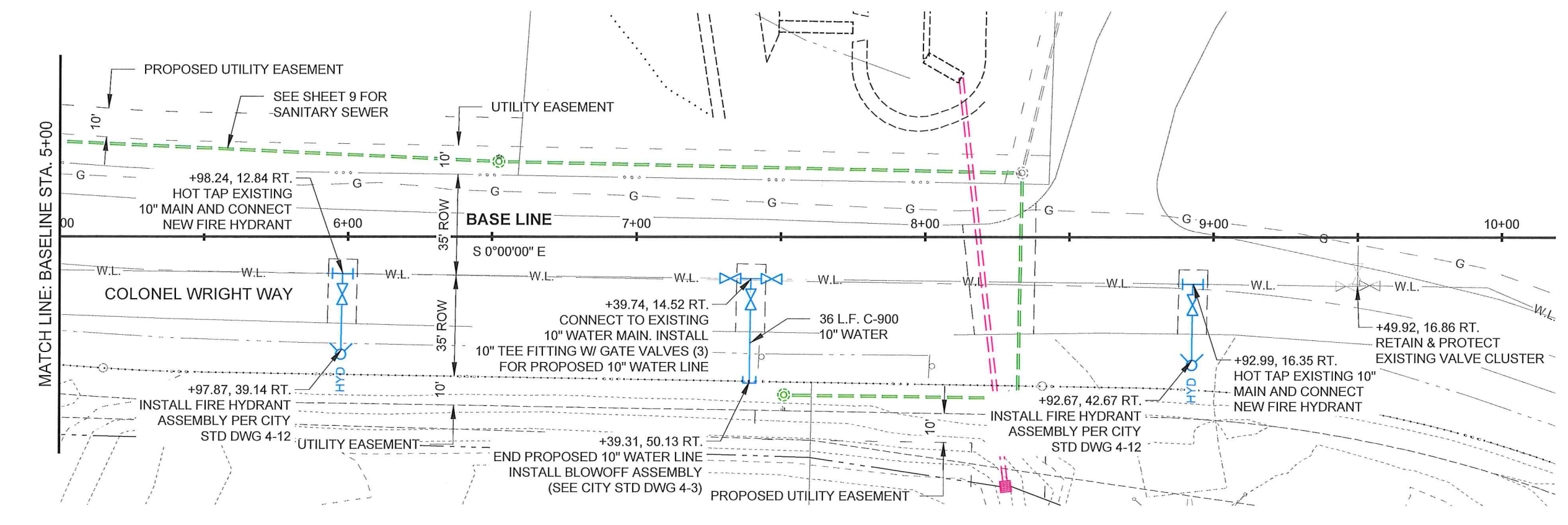
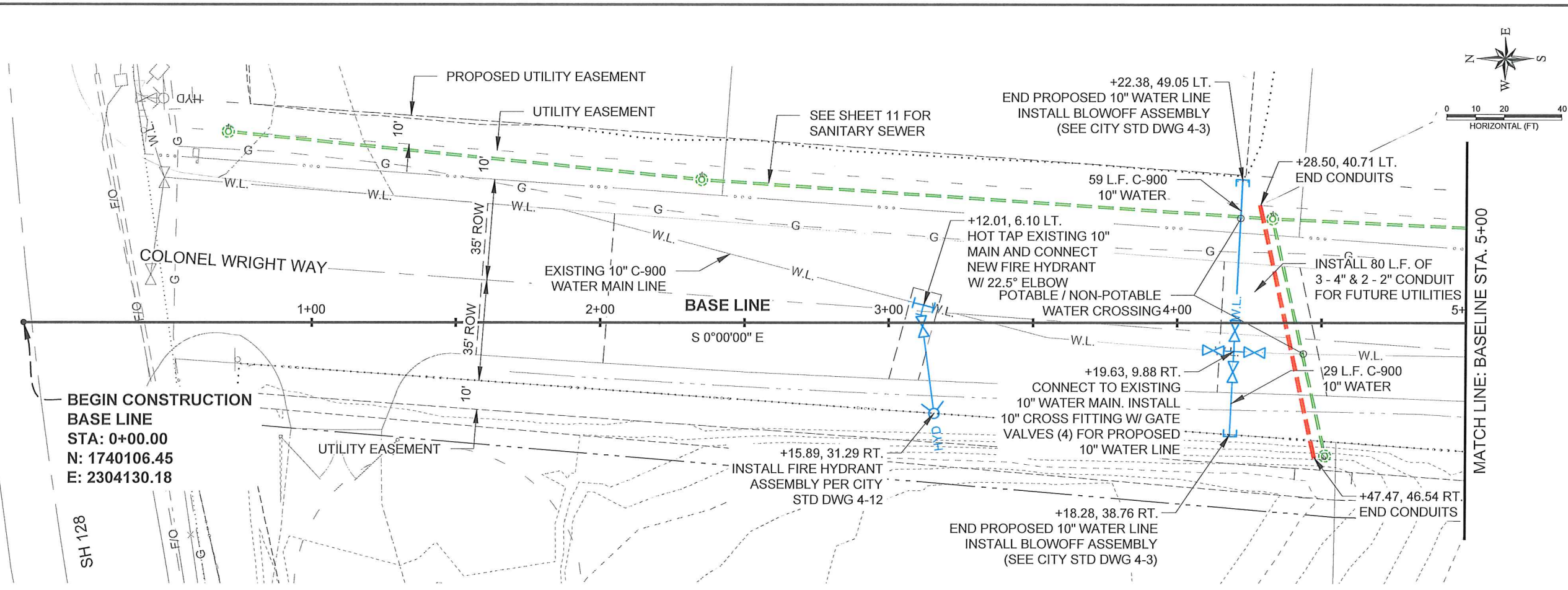
SOUTH WATER LINE PLAN

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DETAILED	RLH	DRAWING SCALE	AS SHOWN
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		SHEET	14 OF 19

PROFESSIONAL ENGINEER
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 7558
 12/04/17
 STATE OF IDAHO
 REX L. HARDING

PLOT DATE: 12/14/2017
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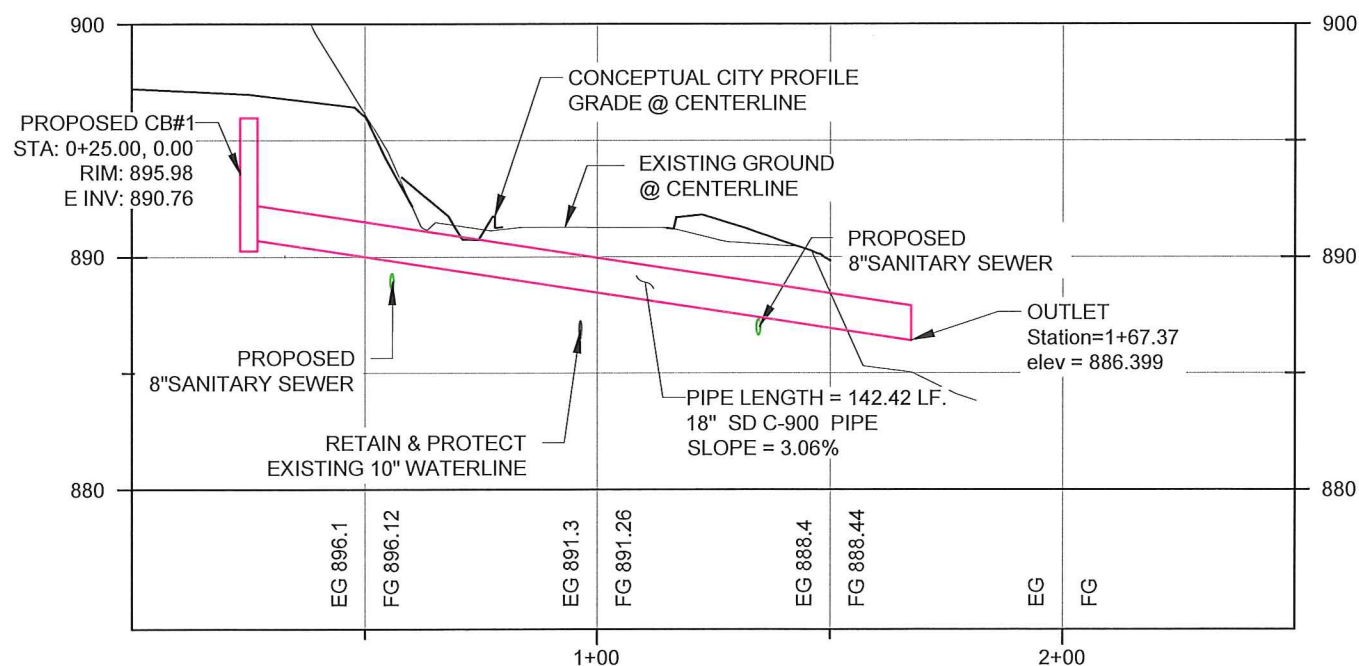
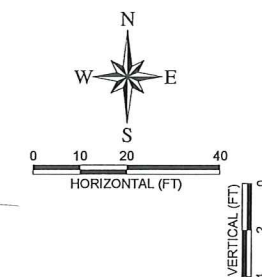
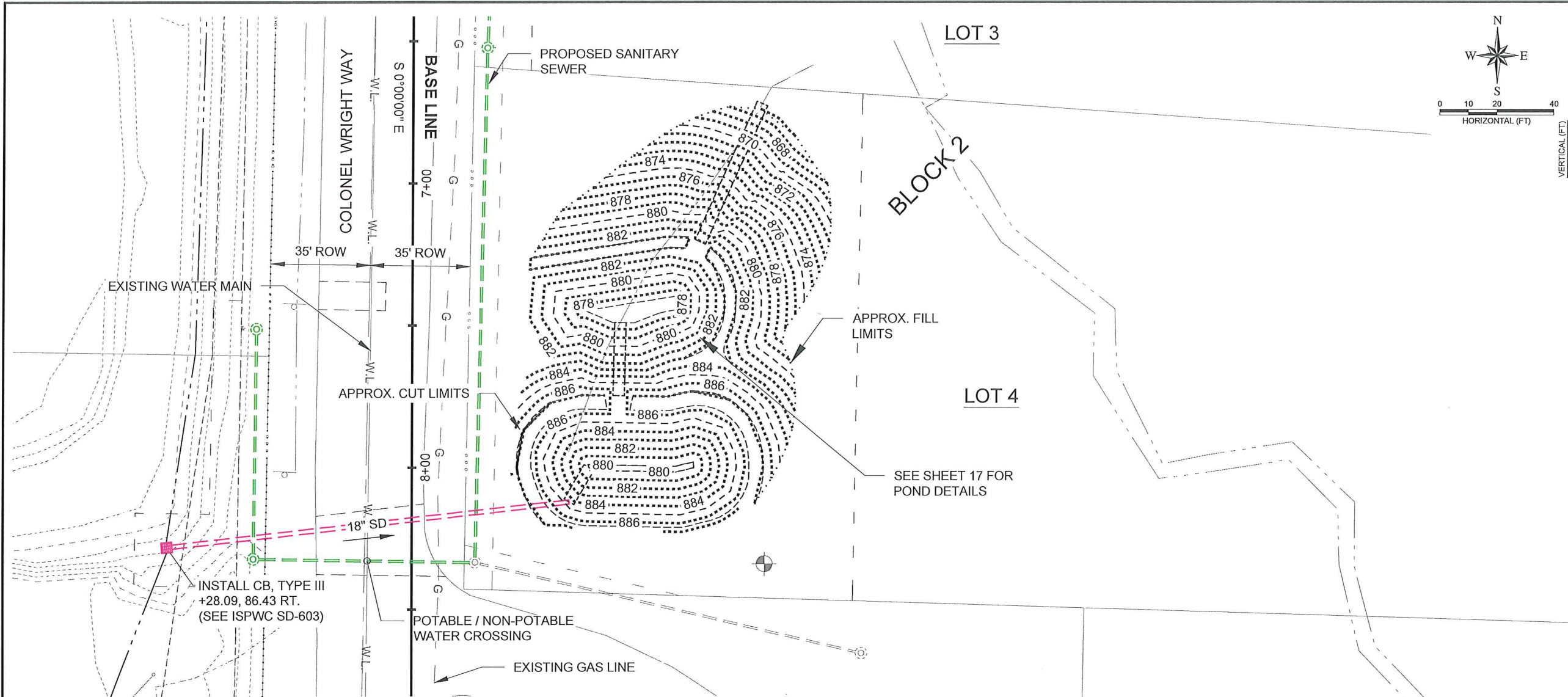
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WATER LINE PLAN
 REVISIONS

NO.	DATE	BY	DESCRIPTION
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STORM DRAINAGE CENTERLINE PROFILE STA: 0+00 - 2+50

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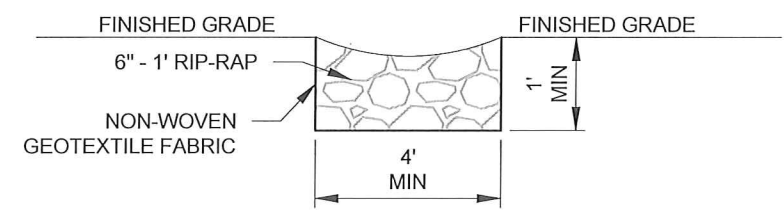
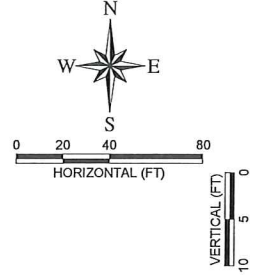
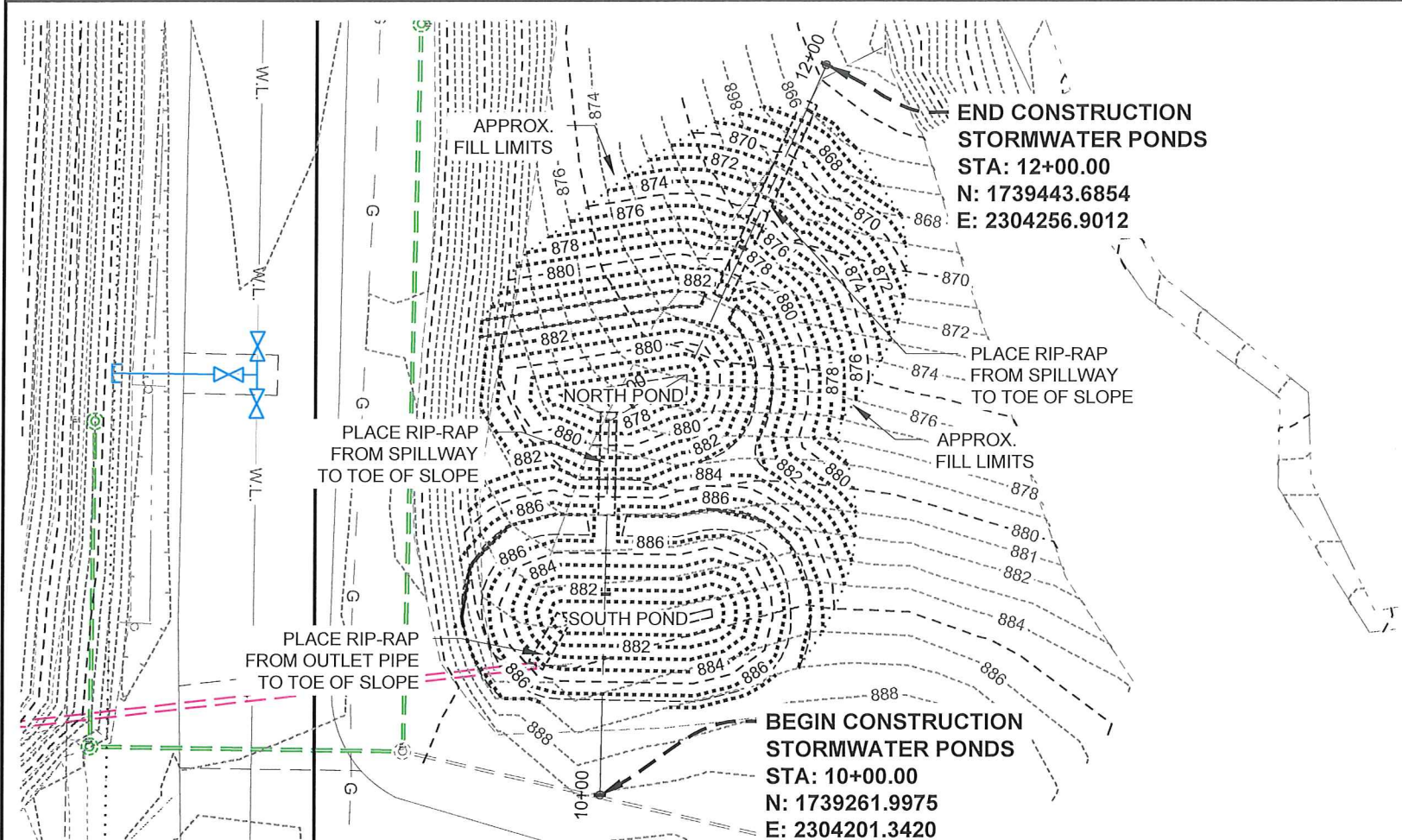
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PORT OF LEWISTON
 2017 PORT GRADING PROJECT
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STORM PLAN

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NO.	DATE	BY	RLH	NO.	DATE	BY	RLH	NO.	DATE	BY	RLH	NO.	DATE	BY	RLH
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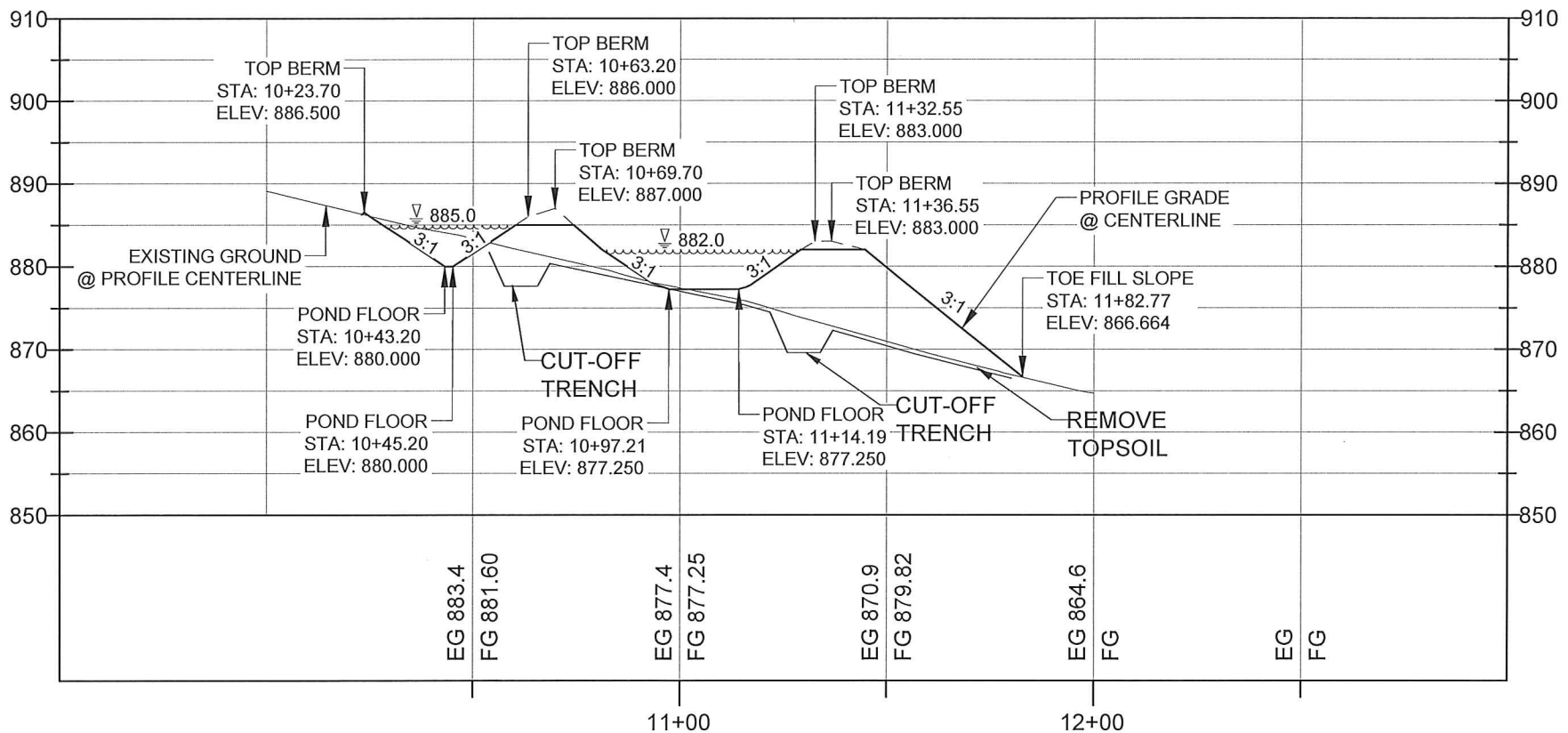
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 12/04/17
 STATE OF IDAHO
 REX L. HARDING



RIP-RAP SPILLWAY DETAIL
 N.T.S.

NORTH POND INFORMATION
 FLOOR ELEV: 877.75
 TOP WATER ELEV: 882.00
 TOP BERM ELEV: 883.00
 FLOOR AREA: 157.26 SF
 WATER SURFACE AREA: 2031.34 SF
 POND VOLUME: 4,650.78 CU FT

SOUTH POND INFORMATION
 FLOOR ELEV: 880.00
 TOP WATER ELEV: 885.00
 TOP BERM ELEV: 887.00
 FLOOR AREA: 73.86 SF
 WATER SURFACE AREA: 1995.12 SF
 POND VOLUME: 5,172.45 CU FT



STORMWATER PONDS CENTERLINE PROFILE STA: 9+50 - 13+00

- NOTES:**
- EXCAVATION AND EMBANKMENT PER GEOTECHNICAL REPORT
 - APPROX. EARTHWORK QUANTITIES:
 FILL VOLUME: 1363 CY
 CUT VOLUME: 135 CY

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STORM POND DETAILS

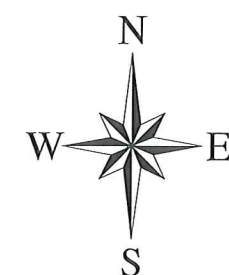
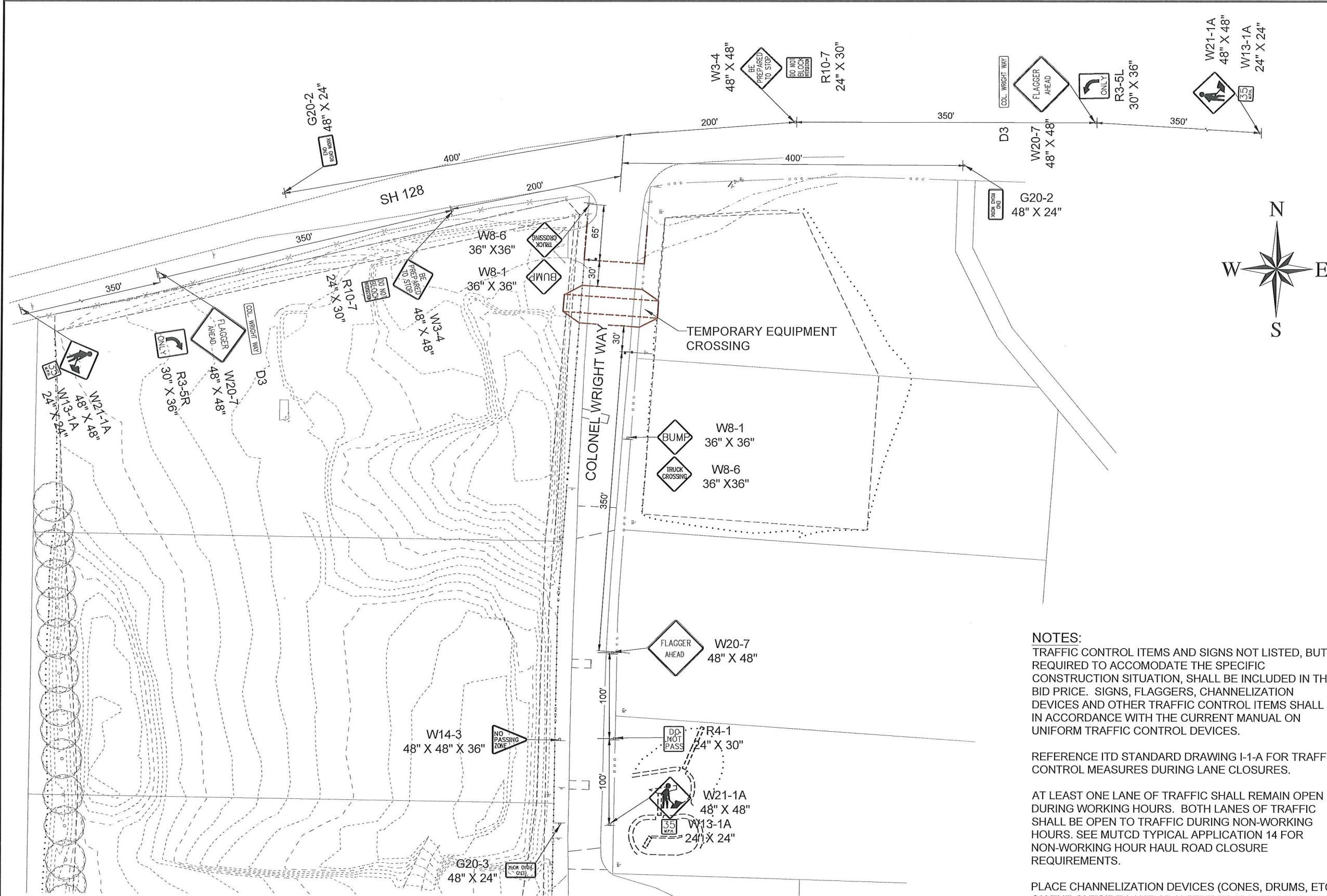
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 DRAWING CHECKED: RLH

FILE NAME: 2835-2016-PORT GRADING PROJECT-STORM POND.DWG
 DRAWING DATE: 2/23/17
 DRAWING SCALE: AS SHOWN
 SHEET 17 OF 19

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PLOT DATE: 12/4/2017
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NOTES:
 TRAFFIC CONTROL ITEMS AND SIGNS NOT LISTED, BUT REQUIRED TO ACCOMODATE THE SPECIFIC CONSTRUCTION SITUATION, SHALL BE INCLUDED IN THE BID PRICE. SIGNS, FLAGGERS, CHANNELIZATION DEVICES AND OTHER TRAFFIC CONTROL ITEMS SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

REFERENCE ITD STANDARD DRAWING I-1-A FOR TRAFFIC CONTROL MEASURES DURING LANE CLOSURES.

AT LEAST ONE LANE OF TRAFFIC SHALL REMAIN OPEN DURING WORKING HOURS. BOTH LANES OF TRAFFIC SHALL BE OPEN TO TRAFFIC DURING NON-WORKING HOURS. SEE MUTCD TYPICAL APPLICATION 14 FOR NON-WORKING HOUR HAUL ROAD CLOSURE REQUIREMENTS.

PLACE CHANNELIZATION DEVICES (CONES, DRUMS, ETC.) ON THE OUTSIDE LANE ADJACENT TO THE EXCAVATION AREA IN ACCORDANCE WITH THE MUTCD. PLACE APPLICABLE SIGNS (SHOULDER DROP OFF, ETC.) AND WARNING DEVICES AS CONDITIONS WARRANT DURING CONSTRUCTION.

ALL TRAFFIC CONTROL ITEMS SHALL BE INCLUDED IN ITEM (1103)



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 2017 PORT GRADING PROJECT
 2017

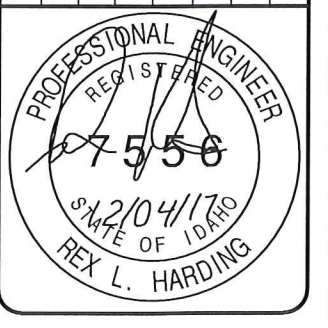
TRAFFIC CONTROL PLAN

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				2	12/04/17
				3	12/04/17
				4	12/04/17
				5	12/04/17

FILE NAME	DATE	BY	DESCRIPTION
2635-TRAFFIC.dwg	12/04/17	RLH	DRAWINGS OF RECORD

DRAWING SCALE AS SHOWN

SHEET 18 OF 19



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 REGISTERED
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 STATE OF IDAHO
 REX L. HARDING

NOTES:

1. THE CONTRACTOR SHALL FILE NOI PERMIT A MIN. OF 14 DAYS PRIOR TO EXCAVATION ACTIVITIES. THE NOI'S AND EPA'S ACKNOWLEDGMENT LETTERS MUST BE POSTED IN A CONSPICUOUS LOCATION AT THE JOB SITE OR AT ANOTHER LOCATION WHERE PUBLIC ACCESS IS ASSURED.

2. BMPs AND STANDARD DRAWINGS ARE TAKEN FROM IDEQ'S CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES FOR IDAHO CITIES AND COUNTIES. COPIES CAN BE OBTAINED FROM THE ENGINEER'S OFFICE. THE FOLLOWING BMPs ARE REFERENCED AND MADE A PART OF THIS PLAN:

- BMP #5a - STABILIZATION OF CONSTRUCTION ENTRANCE AND ROADS
- BMP #7 - DUST CONTROL
- BMP #11 - VEHICLE/EQUIPMENT WASHING AND MAINTENANCE
- BMP #15 - MULCHING
- BMP #20 - TOPSOILING (ITEM SP-2800.1)
- BMP #21 - SEEDING (ITEM 206.4.1.B.1)
- BMP #25 - SLOPE ROUGHENING
- BMP #28 - CHANNEL LINERS
- BMP #31 - INLET PROTECTION
- BMP #32 - CHECK DAMS (ITEM 1006.4.I.D.1)
- BMP #36 - SILT FENCE (ITEM 1003.4.I.C.1)
- BMP #42 - PERIMETER DIKE/SWALE (ITEM 1004.4.I.C.1)

3. BMPs SHALL BE INSPECTED DAILY. ANY DEFICIENT OR DAMAGED BMPs SHALL BE REPAIRED IMMEDIATELY.

4. THE CONTRACTOR SHALL INSTALL NECESSARY BMPs TO PROTECT WORK AREAS AND ADJUST BMPs AS NEW WORK AREAS ARE STARTED.

5. AFTER TOPSOIL HAS BEEN PLACED, THE CONTRACTOR SHALL APPLY SEEDING ON ALL DISTURBED AREAS USING WET OR DRY APPLICATION.

6. SOIL DISTURBANCE AND STABILIZATION AREAS SHALL BE IN COMPLIANCE WITH THE 2017 CONSTRUCTION GENERAL PERMIT PART 2.2.14.




7. STREET SWEEPING IS REQUIRED ON A WEEKLY BASIS OR AS REQUESTED BY THE ENGINEER.

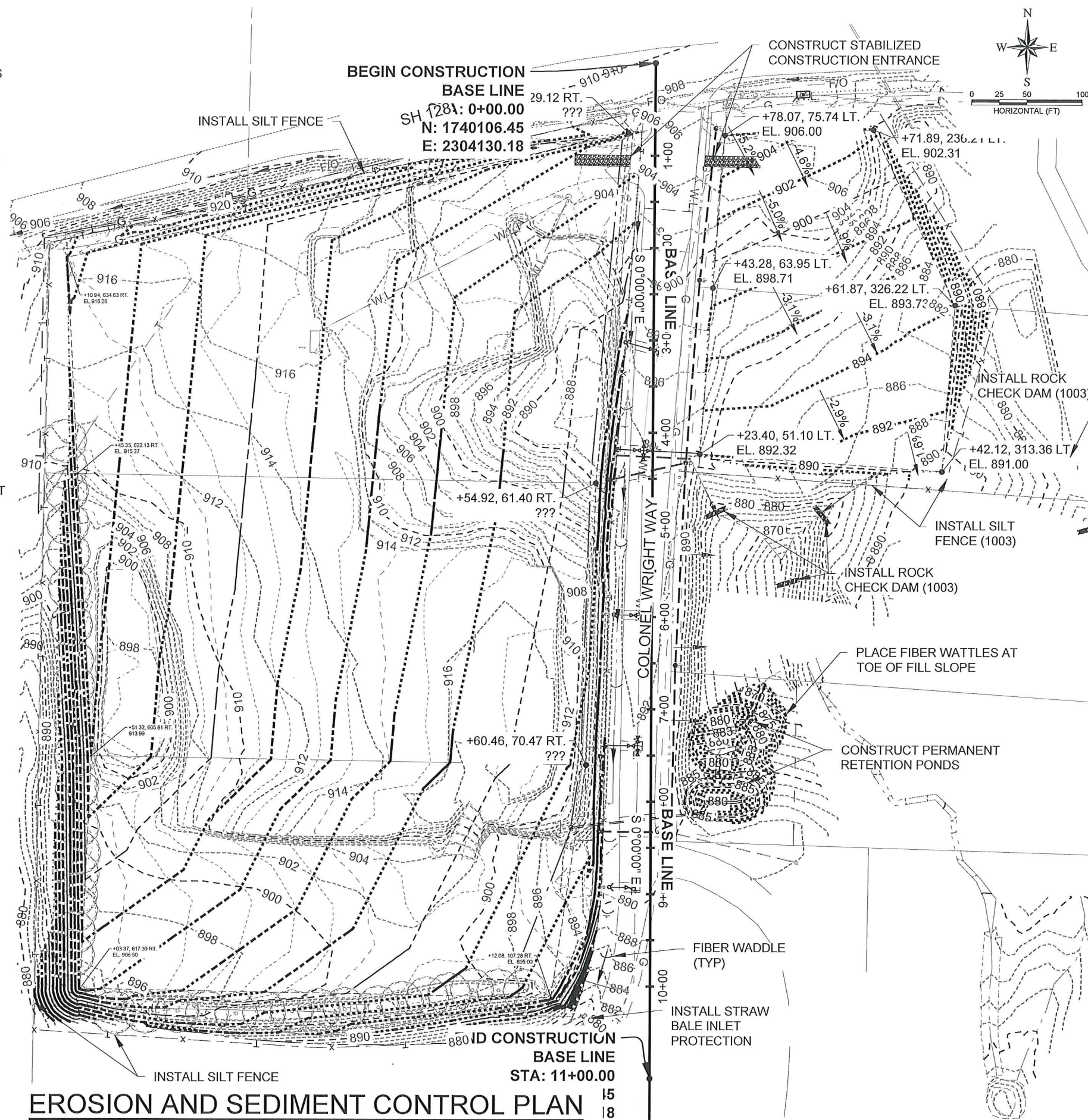
8. SLOPE ROUGHENING (BMP #25) WILL BE REQUIRED ON ALL SLOPES STEEPER THAN 3:1 AND GREATER THAN 5 FEET VERTICAL HEIGHT.

9. DUST CONTROL (BMP #7) WILL BE REQUIRED ON ALL DISTURBED AREAS OF THE SITE AT REGULAR INTERVALS. SPRINKLING WILL BE REQUIRED MORE FREQUENTLY DURING HOT, DRY, AND WINDY CONDITIONS, AND ON HAUL ROADS.

10. CONTRACTOR SHALL NOT DISTURB EXISTING GRASS/VEGETATION LOCATED OUTSIDE THE GRADING SITE CONSTRUCTION.

LEGEND

- T - - - X - - - SILT FENCE
-  ROCK CHECK DAM
-  FIBER WADDLE
-  INLET PROTECTION



EROSION AND SEDIMENT CONTROL PLAN

15
18

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PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

STORM WATER POLLUTION PREVENTION PLAN

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NO.	DATE	BY	RLH	NO.	DATE	BY	RLH	NO.	DATE	BY	RLH	NO.	OF
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REGISTERED
7556
DATE OF IDAHO
2/04/17
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PLOT DATE: 12/4/2017
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