



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,

A handwritten signature in blue ink, appearing to read "Pat Severance", is written over the printed name.

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

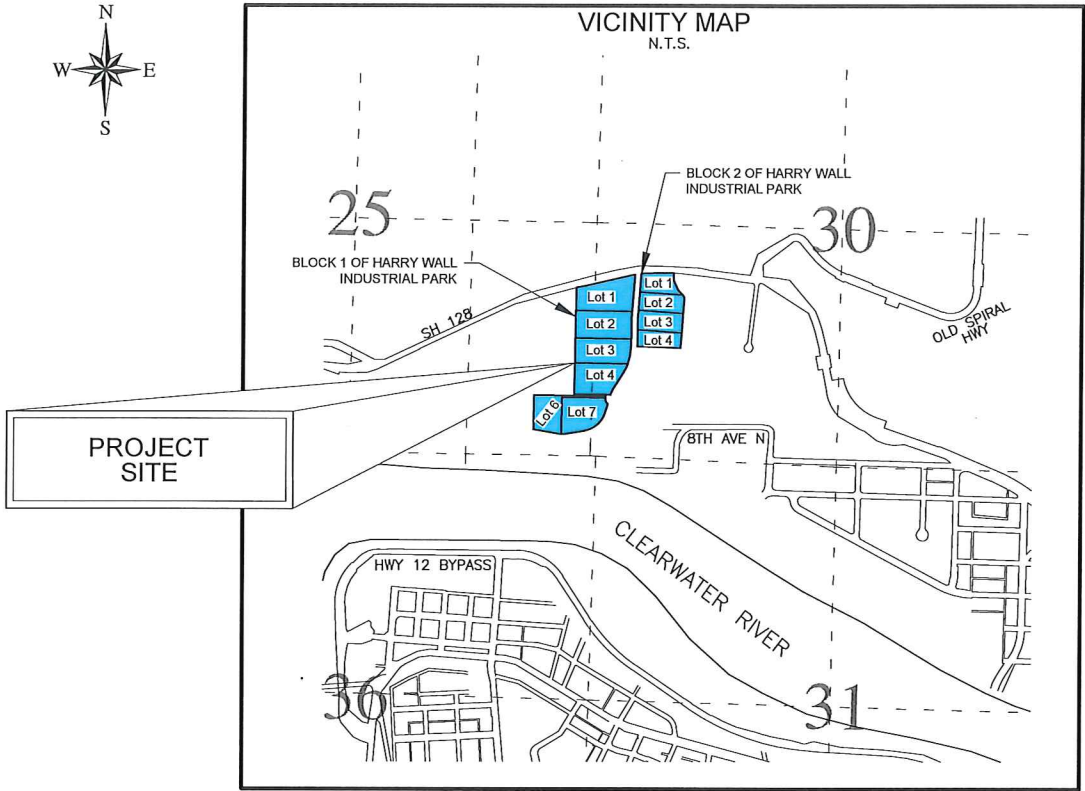
2017 PORT GRADING PROJECT

DRAWINGS OF RECORD

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

December 2017





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.

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



77 Southway, Suite C
Lewiston, Id. 83501
Phone: (208) 743-3818
Fax: (208) 743-3819

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DESIGNED

WDR

DESIGN CHECKED

RLH

DETAILED

WDR

DRAWING CHECKED

RLH

FILE NAME

2635-COVER.dwg

DRAWING DATE

12/1/17

DRAWING SCALE

AS SHOWN

SHEET

1

OF

19

PORT OF LEWISTON

2017 PORT GRADING PROJECT

2017

COVER

REVISIONS

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



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

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 1½ 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	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	1Test 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							



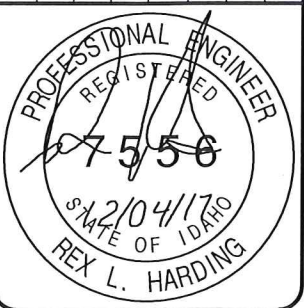
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77 Southway, Suite C
Lewiston, Id. 83501
Phone: (208) 743-3818
Fax: (208) 743-3819

PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

GENERAL NOTES, ABBREVIATIONS & LEGEND

FILE NAME		2635-NOTES.dwg	
DRAWING DATE		12/1/17	
DRAWING SCALE		AS SHOWN	
SHEET		2 OF 19	
REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	12-4	RLH	DRAWINGS OF RECORD
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- 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

City Engineer Shawn J. Stuber Date 3/5/13

DWG NO

1-6

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



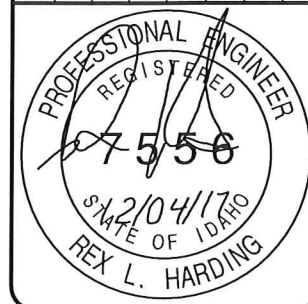
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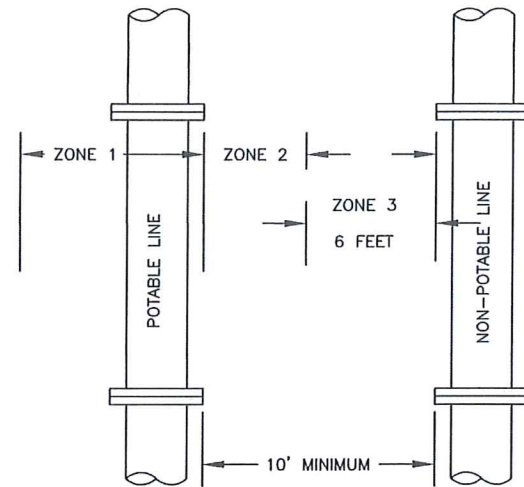
PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

DETAILS			
REVISIONS			DESCRIPTION
NO.	DATE	BY	DRAWINGS OF RECORD-
1	12-4	RLH	"
2	"	"	"
3	"	"	"
4	"	"	"
5	"	"	"
6	"	"	"

DESIGNED	
WDR	
DESIGN CHECKED	
RLH	
DETAILED	
WDR	
DRAWING CHECKED	
RLH	
FILE NAME	
2635-SECRET.dwg	
DRAWING DATE	
12/1/17	
DRAWING SCALE	
AS SHOWN	
SHEET	3 OF 19



PLOT DATE: 12/1/2017
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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.

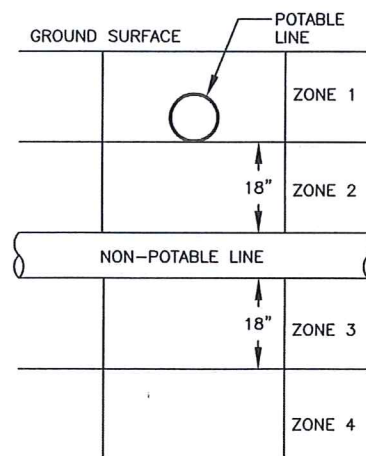
b) Non-potable or potable line must be cased in a larger diameter carrier pipe for a horizontal distance of ten feet on both sides of the crossing, with no joints.

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:

- 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.
- 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.

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

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

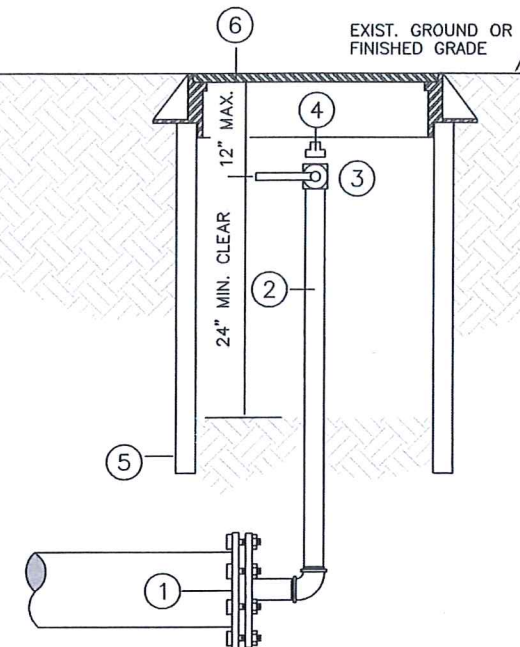
POTABLE & NON-POTABLE WATERLINE SEPARATION

APPROVED FOR PUBLICATION

Ch. Davis 11-9-09
City Engineer Date

DWG. NO.

4-1



REQUIRED COMPONENTS

- CAP OR PLUG ON WATER MAIN
- 2" GALVANIZED PIPE
- 2" BALL VALVE
- 2" THREADED PLUG
- 24" HDPE PIPE
- OLYMPIC FOUNDRY MH-23 MANHOLE & COVER
- THRUST BLOCK OR RESTRAINTS (NOT SHOWN)

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

COMBINATION BLOWOFF AND SAMPLING TAP

APPROVED FOR PUBLICATION

Ch. Davis 11-9-09
City Engineer Date

DWG. NO.

4-3

M:\Standards\2010-Standards\4-Water\Blowoff Sample.dwg

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

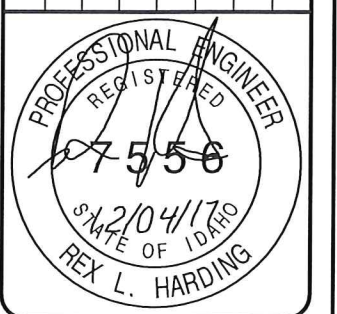
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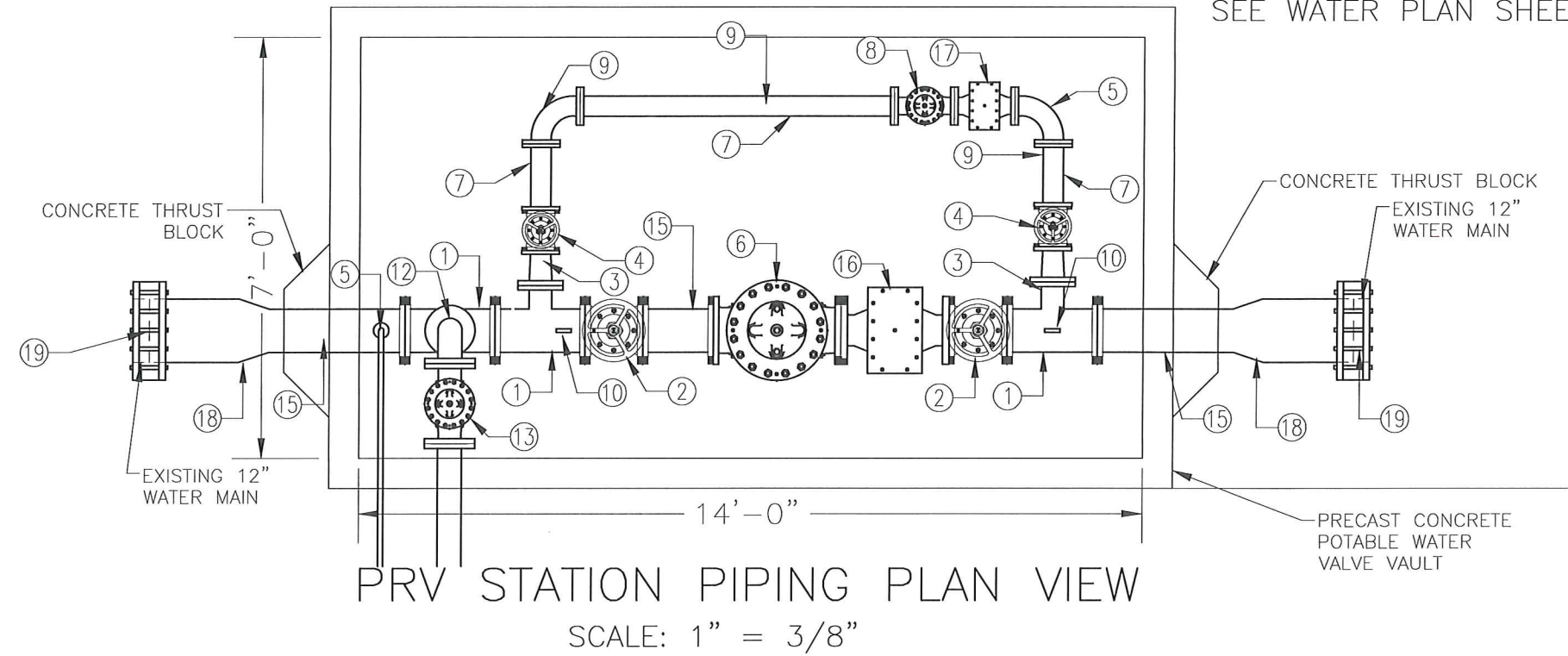
PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

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FILE NAME
2635-SECDET.dwg
DRAWING DATE
12/1/17
DRAWING SCALE
AS SHOWN
SHEET 4 OF 19



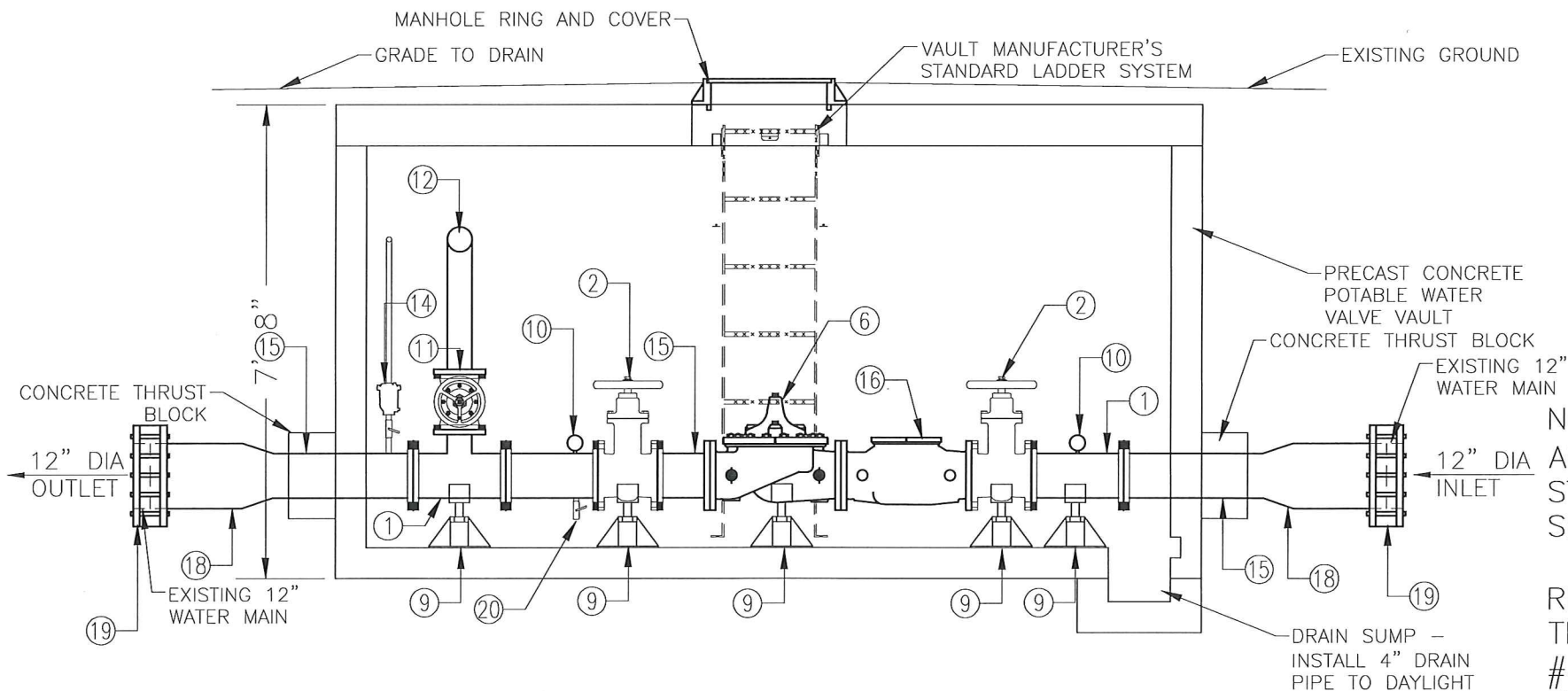


SEE WATER PLAN SHEET FOR PRV STATION LOCATION



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 GUAGE
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" TRANITION 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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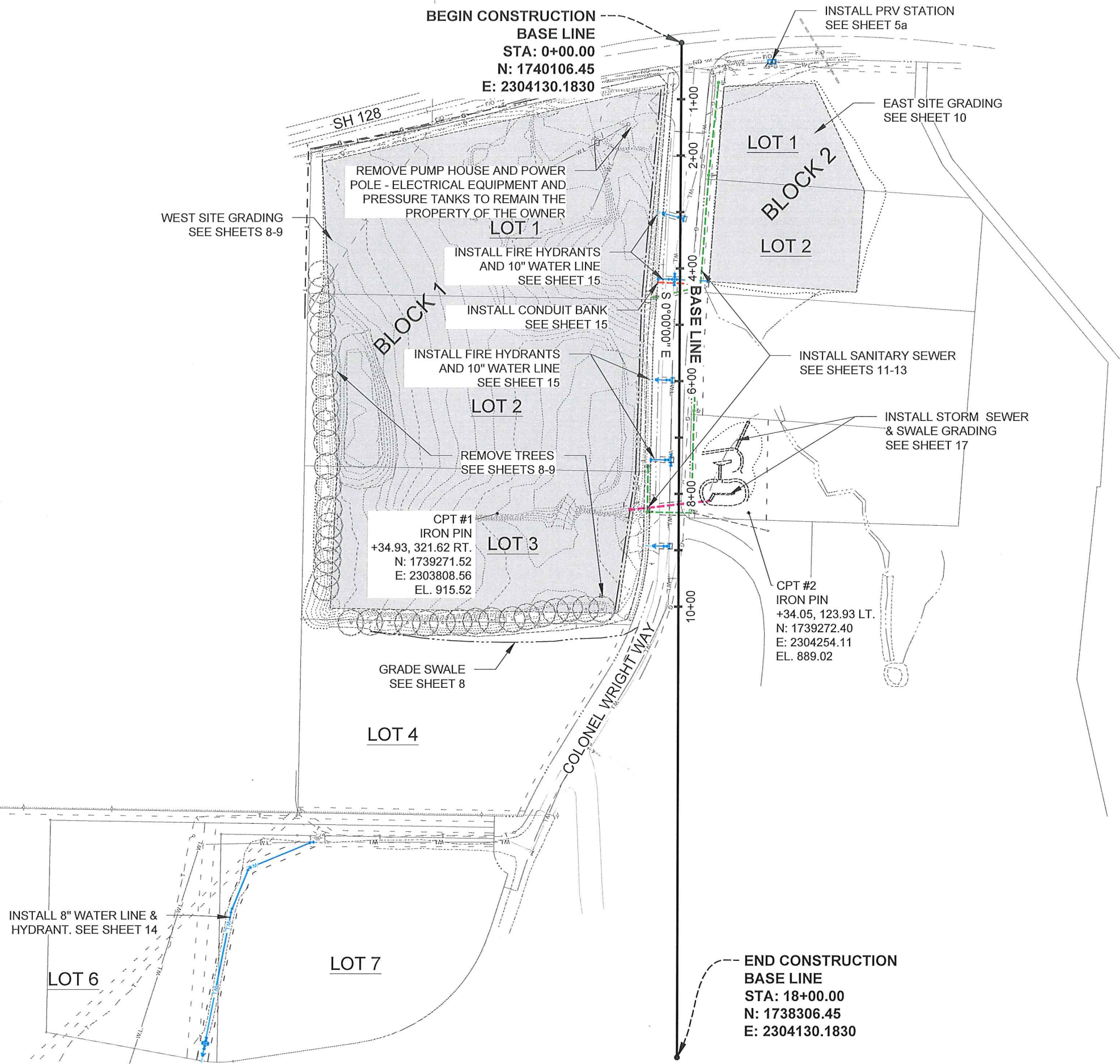
PORT OF LEWISTON
2017 PORT GRADING PROJECT
2018

PRESSURE REDUCING STATION DETAILS

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2635-PRV REV.dwg
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SHEET 50 OF 19

REVISIONS
NO. DATE BY DESCRIPTION
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2 1/25/18 RLH
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18 1/25/18 RLH
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20 1/25/18 RLH

PROFESSIONAL ENGINEER
REGISTERED
7556
1/25/18
DATE OF ID#
REX L. HARDING



DESIGNED	WDR
DESIGN CHECKED	RLH
DETAILED	RLH
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SHEET	6 OF 19

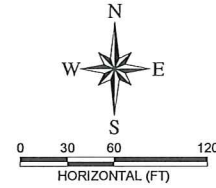
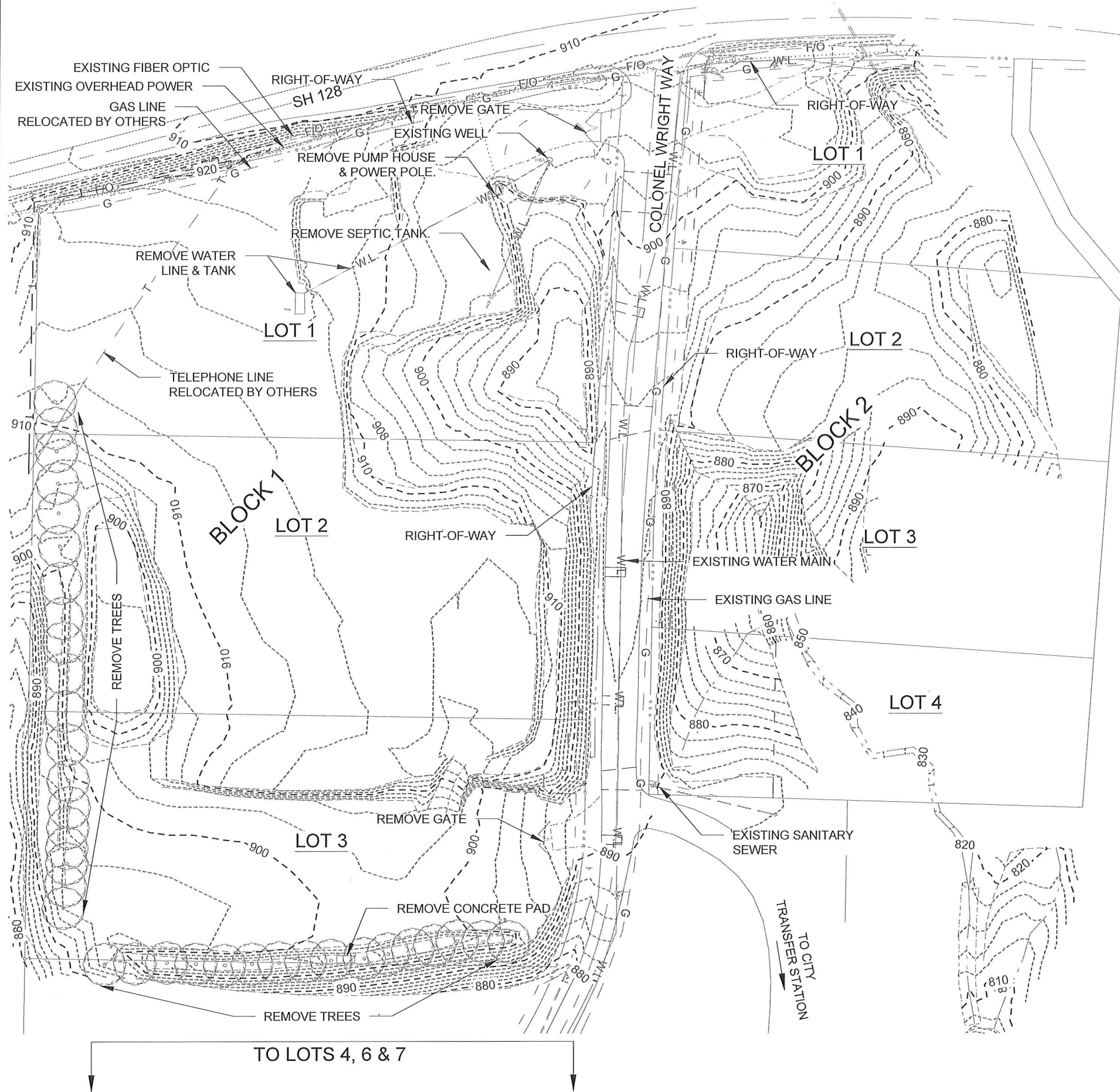
PORT OF LEWISTON 2017 PORT GRADING PROJECT 2017	
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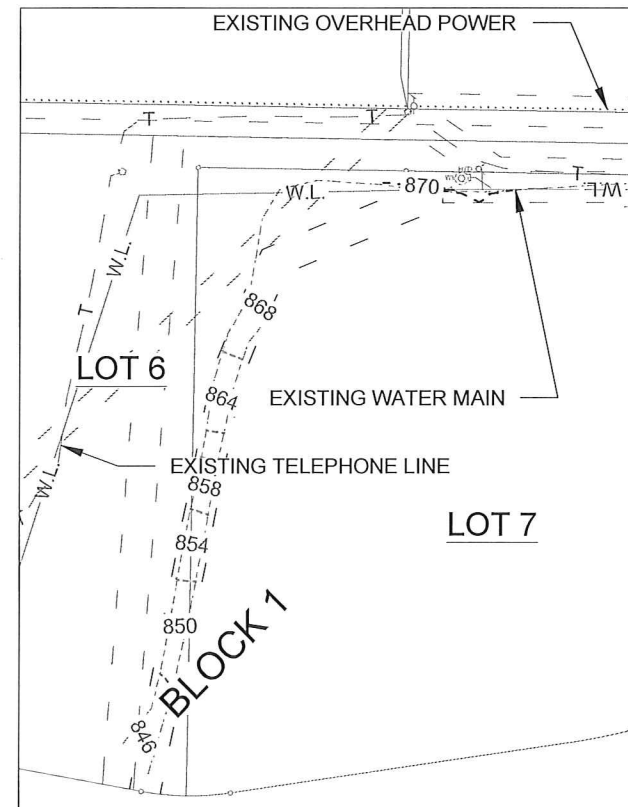
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PLOT DATE: 12/1/2017
Z:\2635 2016 PORT GRADING PROJECT\ADD\DR\2635-ESP.DWG



*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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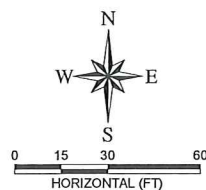
PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

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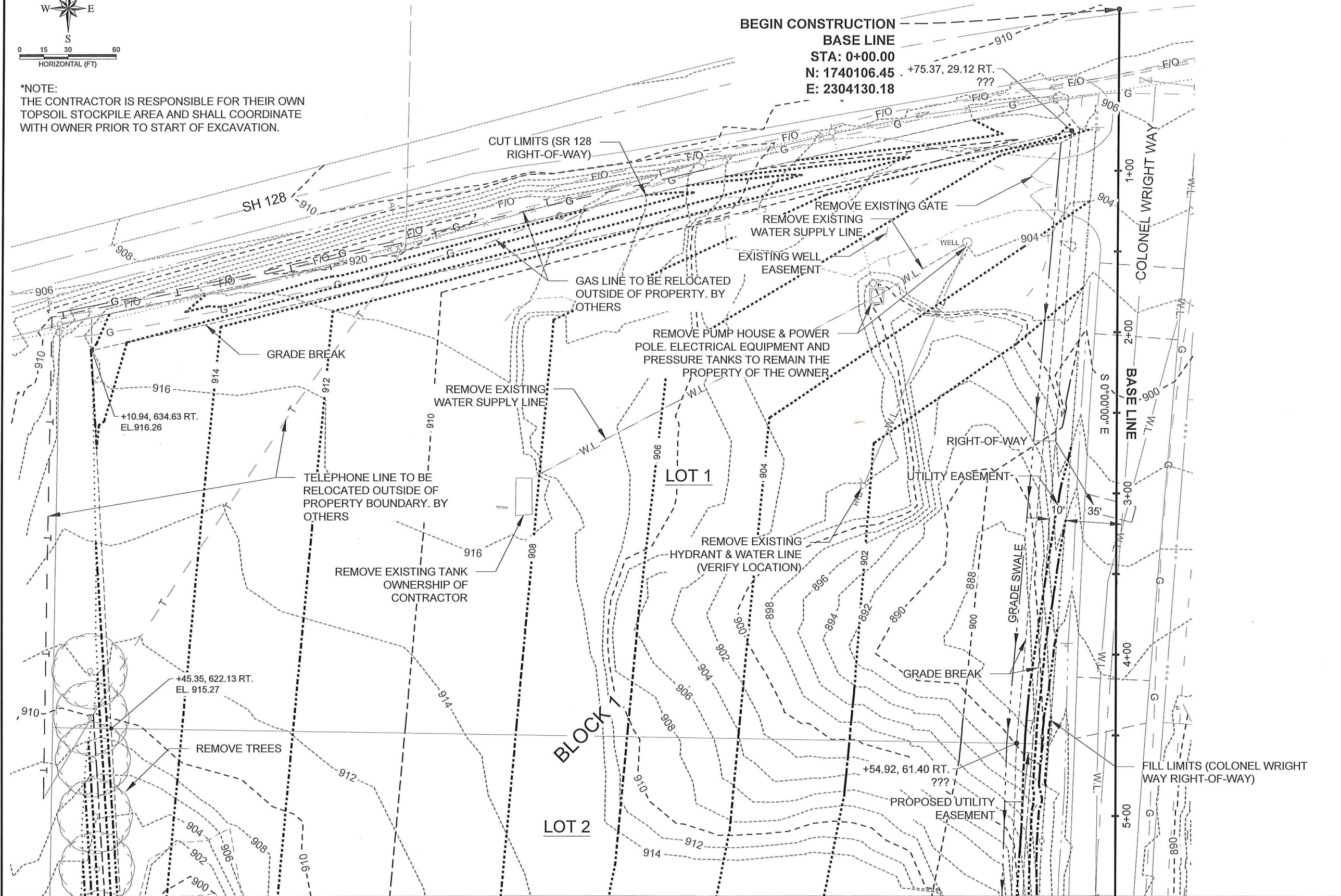
EXISTING SITE PLAN
2017

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5	5	-	-	-	-	5	5
6	6	-	-	-	-	6	6
7	7	-	-	-	-	7	7





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



MATCH LINE STA: 5+50.00



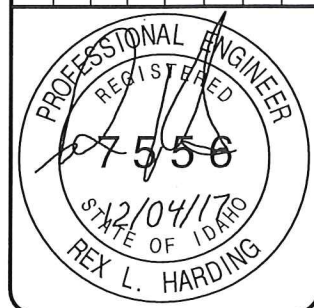
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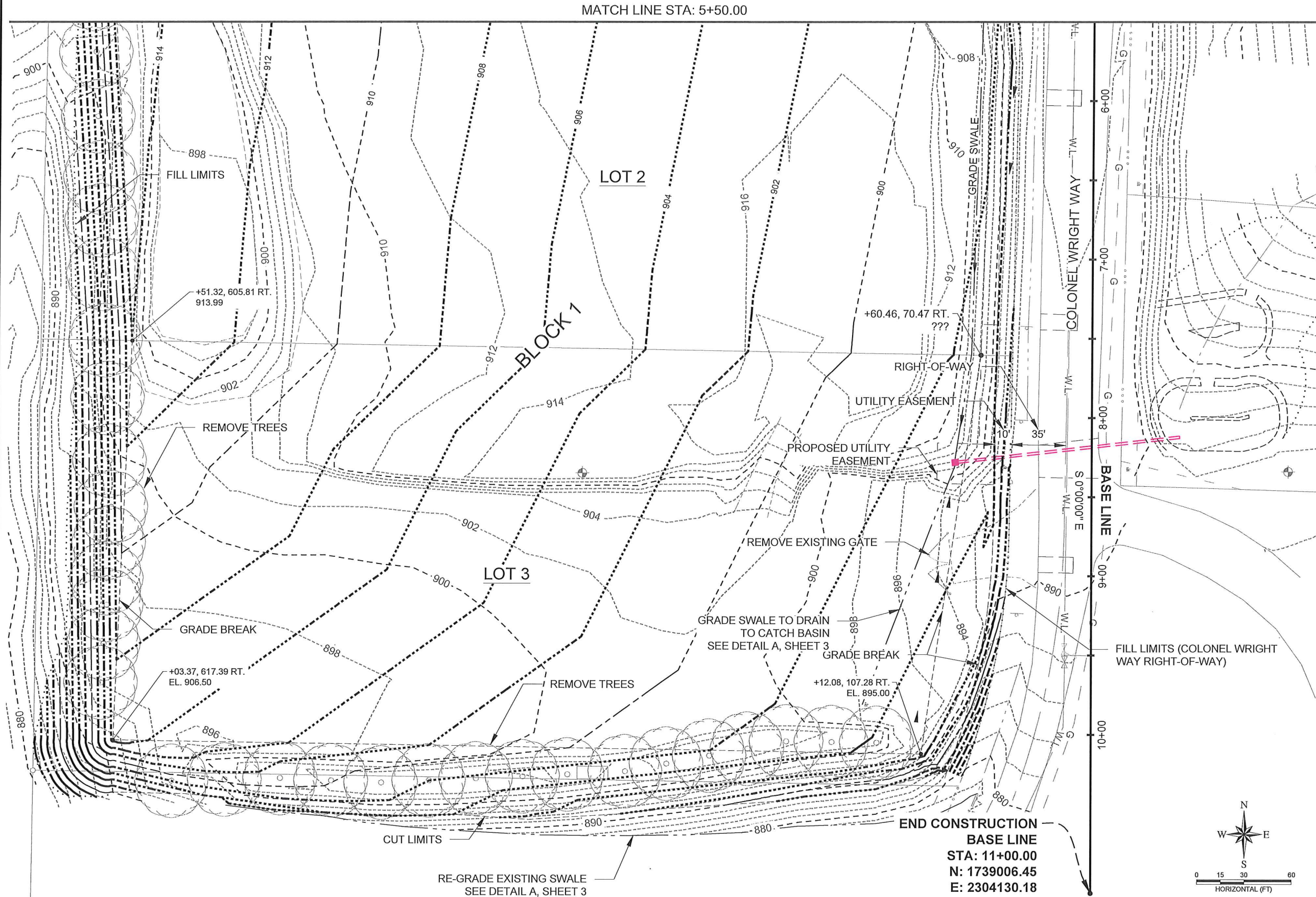
PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

WEST SITE GRADING

DESIGNED	WDR	DESIGN CHECKED	RLH	DETAILED	WDR	DRAWING CHECKED	RLH	FILE NAME	2035-GRADING.dwg	DRAWING DATE	12/4/17	DRAWING SCALE	AS SHOWN	SHEET	8 OF 19
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PLOT DATE: 12/4/2017
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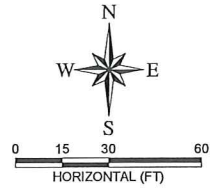


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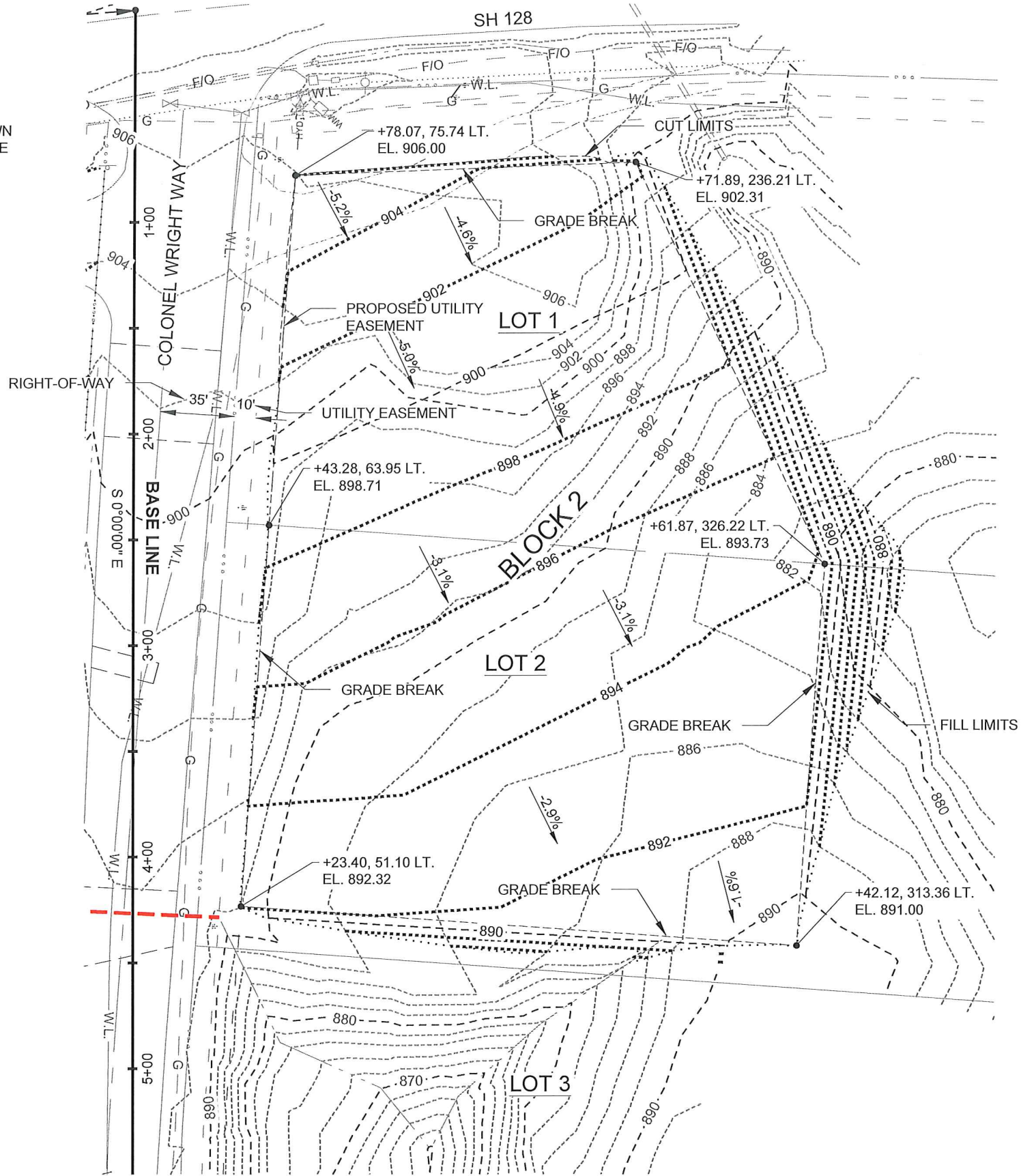
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PORT OF LEWISTON 2017 PORT GRADING PROJECT 2017				WEST SITE GRADING			
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				DRAWING DATE	12/4/17		
				DRAWING SCALE	AS SHOWN		
				SHEET	9	OF	19

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



*NOTE:
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PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

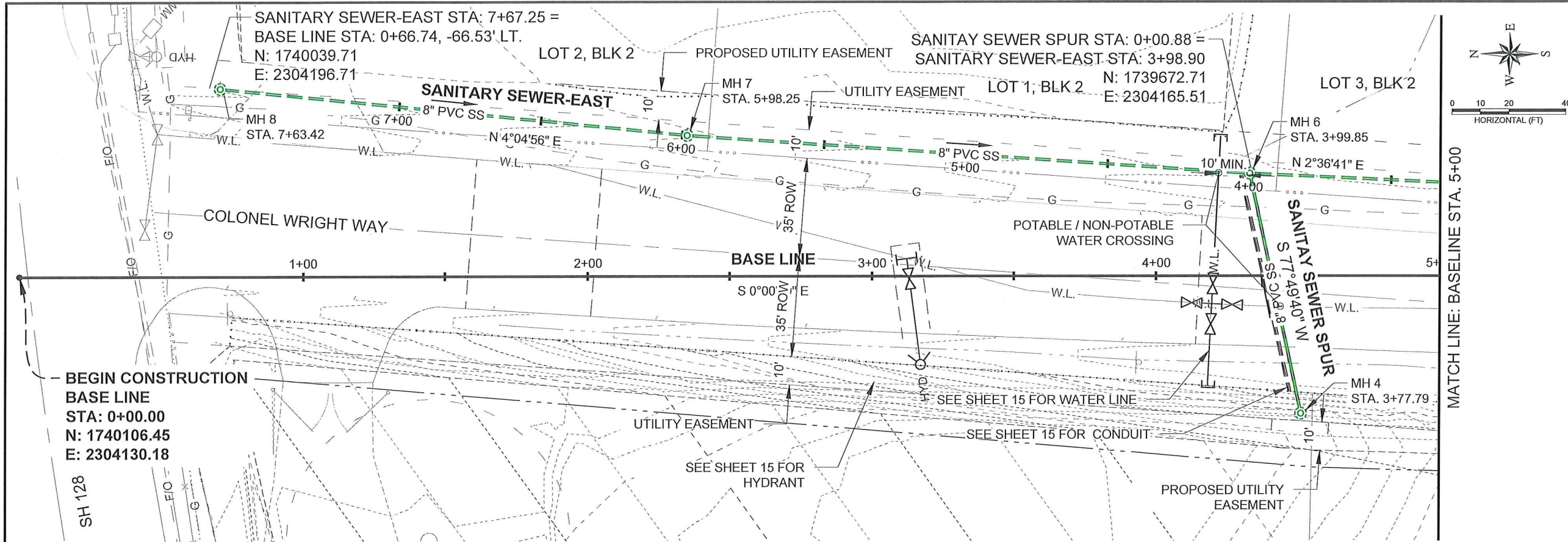
EAST SITE GRADING

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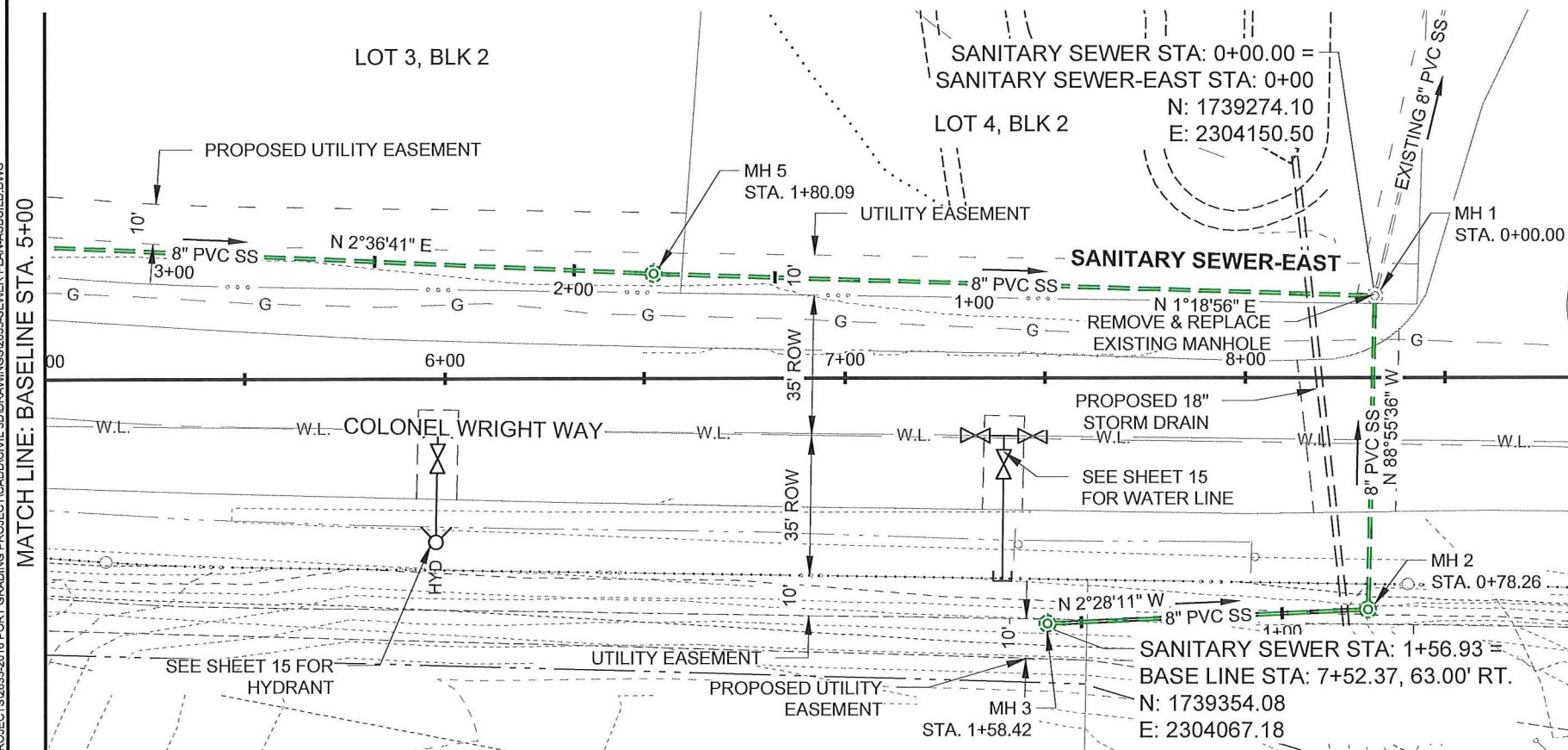
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DRAWING DATE	12/04/17
DRAWING SCALE	AS SHOWN
SHEET	10 OF 19



PLOT DATE: 12/4/2017
M:\PROJECTS\2016-2017 PORT GRADING PROJECT\CADD\CIVIL 3D\DRAWINGS\2016-2017 PORT GRADING PROJECT\PLAN\AS-BUILD.DWG



NOTE: SEE SHEETS 12-13 FOR SANITARY SEWER PROFILES



SANITARY SEWER NOTES

1. SEWER PIPE BEDDING MATERIALS SHALL BE IN ACCORDANCE WITH THE ISPCW TECHNICAL SPECIFICATIONS AND CITY OF LEWISTON INSPECTION CHECKLIST.
2. 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.
3. 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 ISPCW STANDARDS AND CITY INSPECTION CHECKLIST.
4. INSTALL SEWER SERVICE LINES. A MAXIMUM OF FIVE CONNECTIONS ARE EXPECTED. LOCATED AS DIRECTED BY ENGINEER.
5. FIELD VERIFY EXISTING MANHOLE ELEVATIONS AND INVERTS AND SEWER LINE SLOPE PRIOR TO CONSTRUCTION.
6. 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.
7. 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.
8. SEE CITY STD DWG 5-8 FOR MANHOLE LID ORIENTATION.



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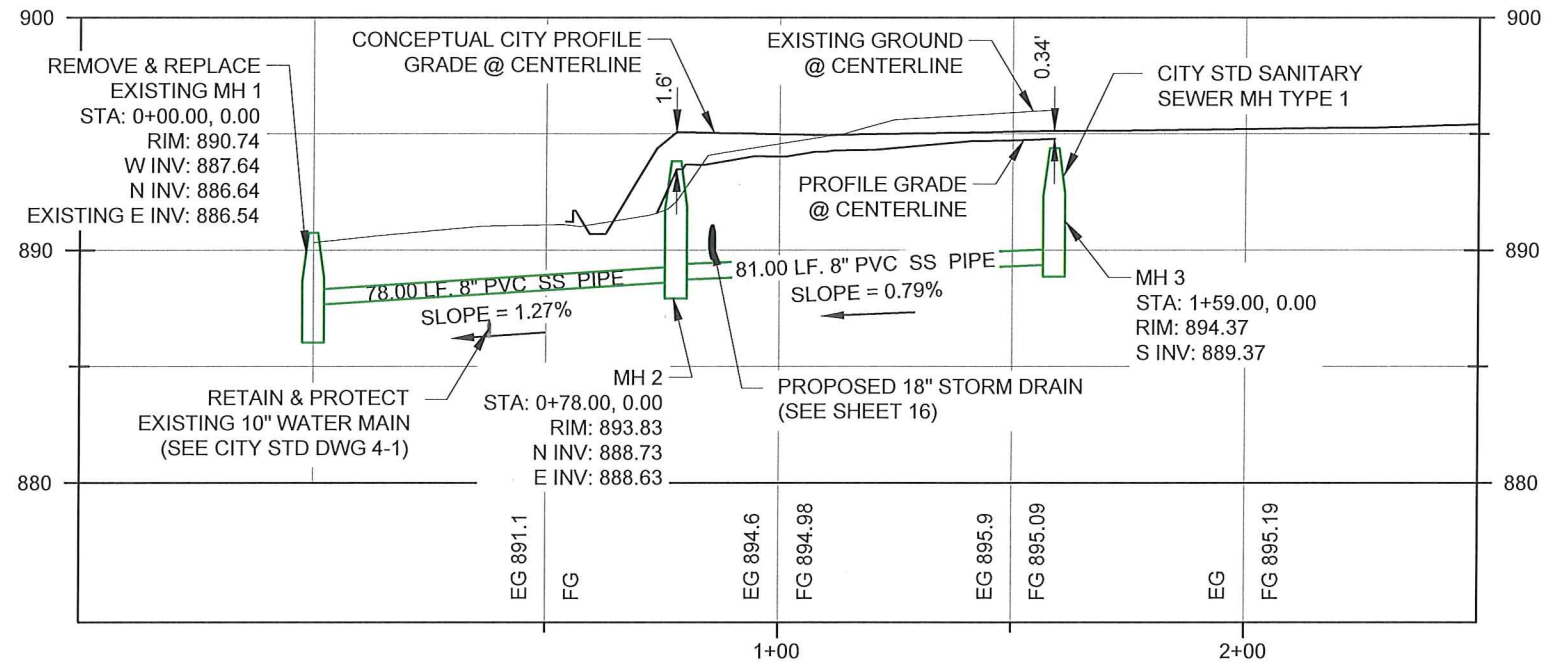
PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

SANITARY SEWER PLAN

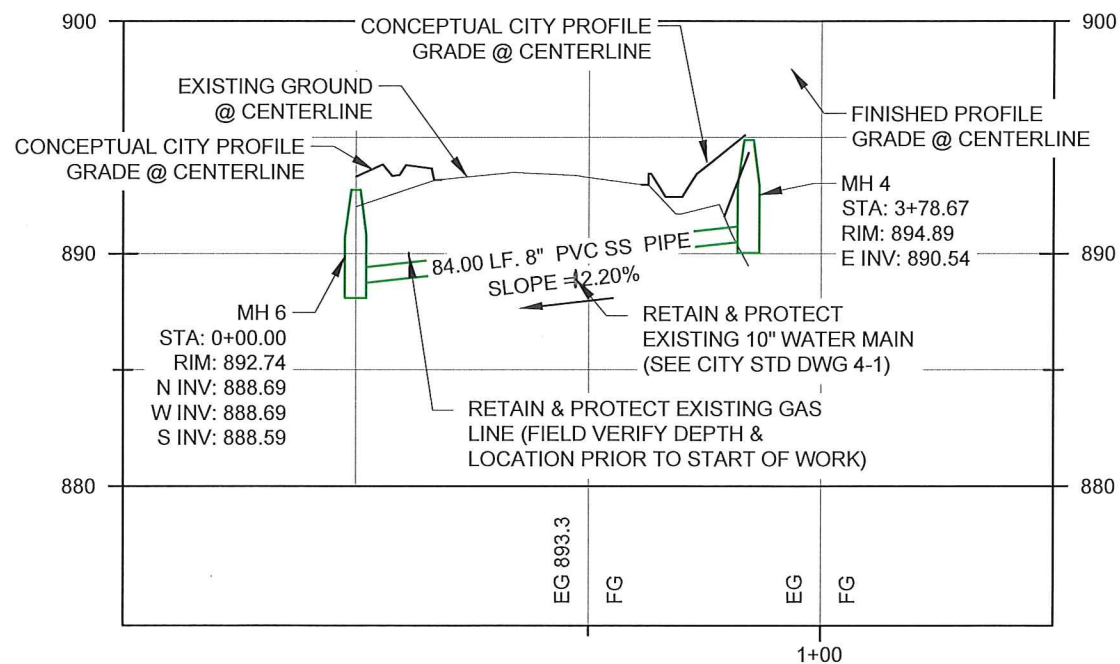
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DESIGNED	DESIGN CHECKED	DETAILED	DRAWING CHECKED	FILE NAME	PLAN BUILDING	DRAWING DATE	DRAWING SCALE	SHEET
WDR	RLH	RLH	WDR	2016-2017 PORT GRADING PROJECT	AS-BUILD	12/4/17	AS SHOWN	11 OF 19

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



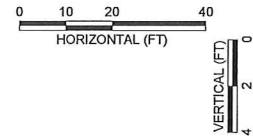
SANITARY SEWER CENTERLINE PROFILE STA: -0+50 - 2+50



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

NOTE:

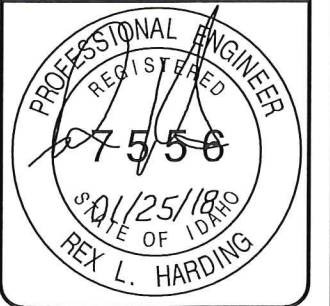
1. USE CITY TYPE 1A MANHOLE (CITY STD DWG 5-4) FOR SHALLOW MANHOLE.
2. IF USING SD-502, ROTATE FLAT LID T POSITION ACCESS HOLE OVER CHANNEL.



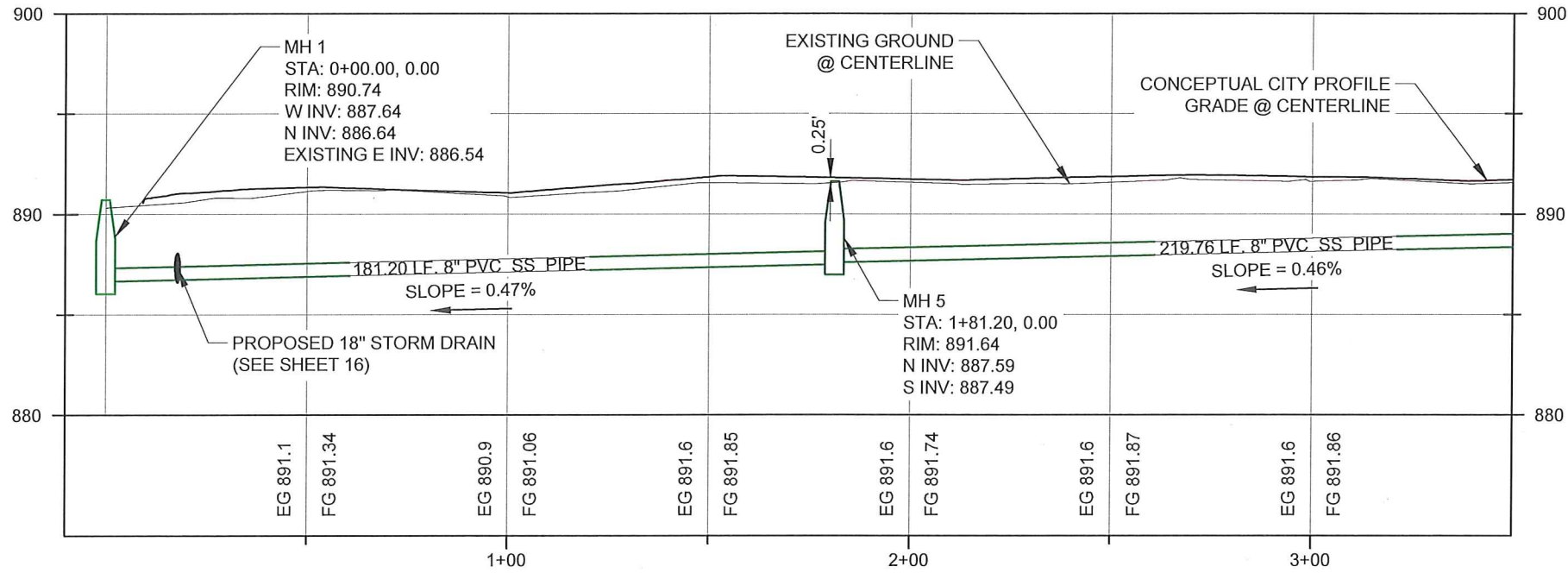
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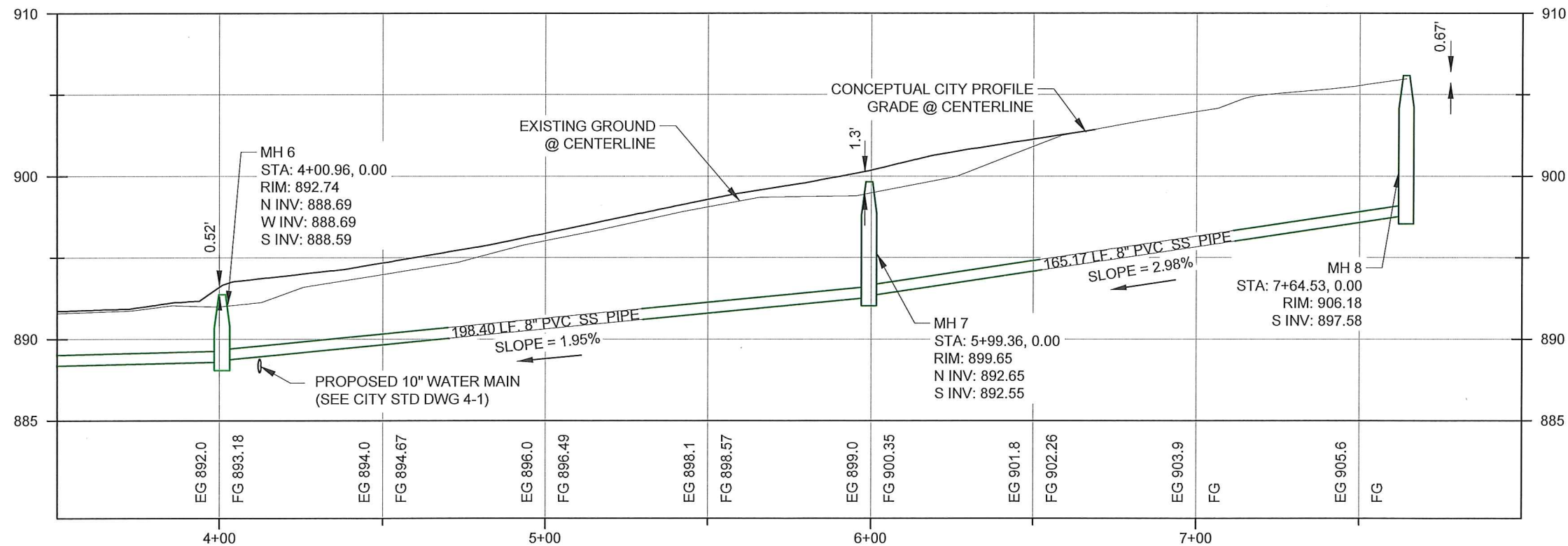
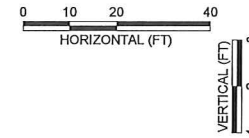
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DETAILED	WDR	DRAWING SCALE	AS SHOWN	2	-	-	-
DRAWING CHECKED	RLH	SHEET	12 OF 19	3	-	-	-



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



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



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



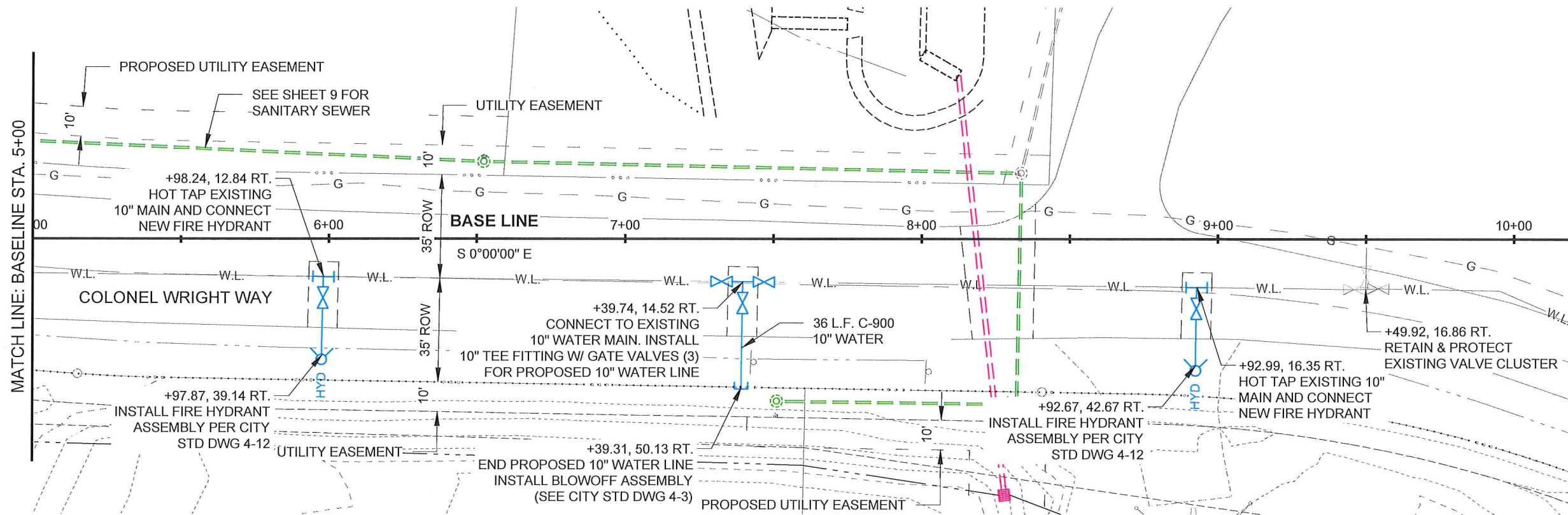
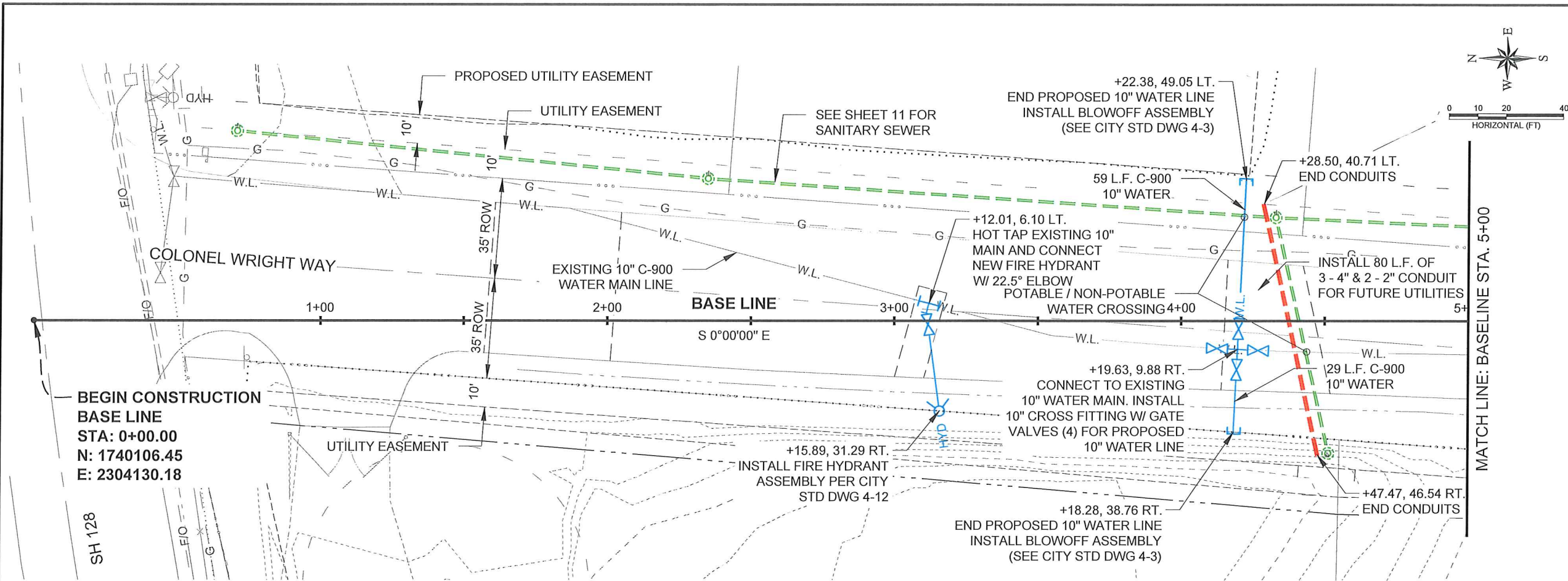
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PORT OF LEWISTON 2017 PORT GRADING PROJECT 2018				EAST SANITARY SEWER PROFILE				
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REGISTERED
7556
1/25/18
STATE OF IDAHO
REX L. HARDING

PLOT DATE: 12/4/2017
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PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

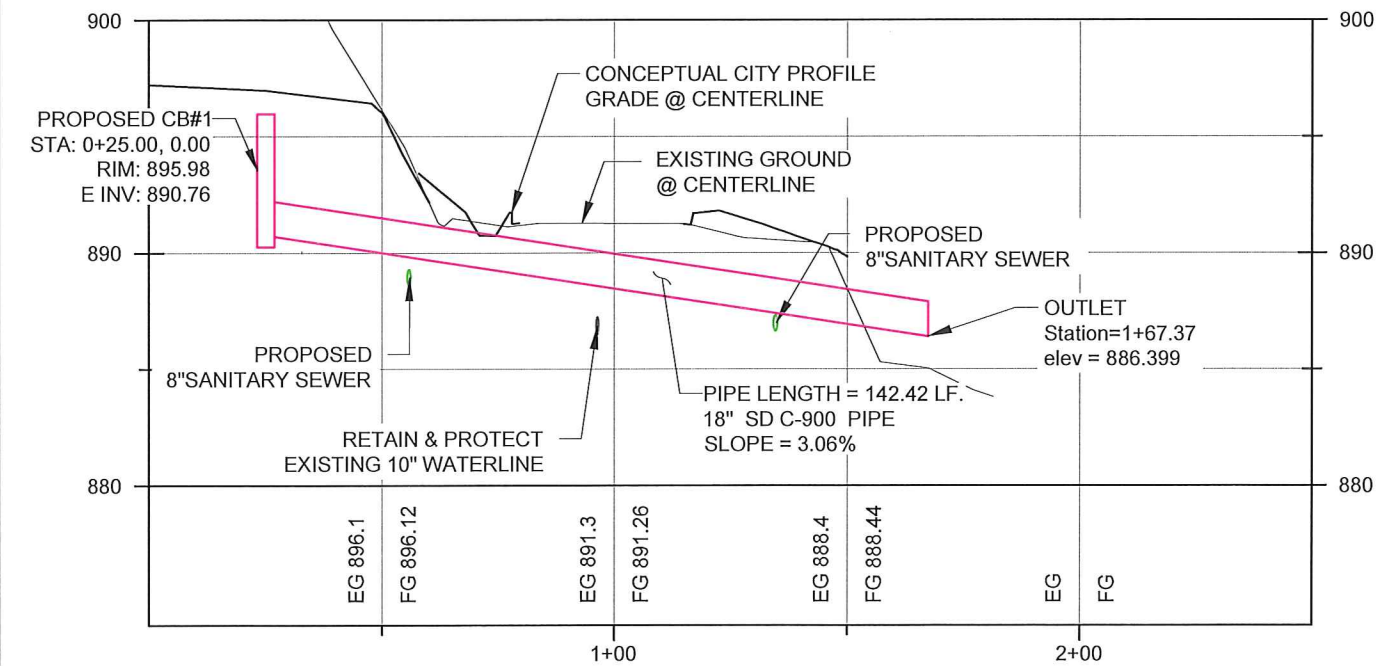
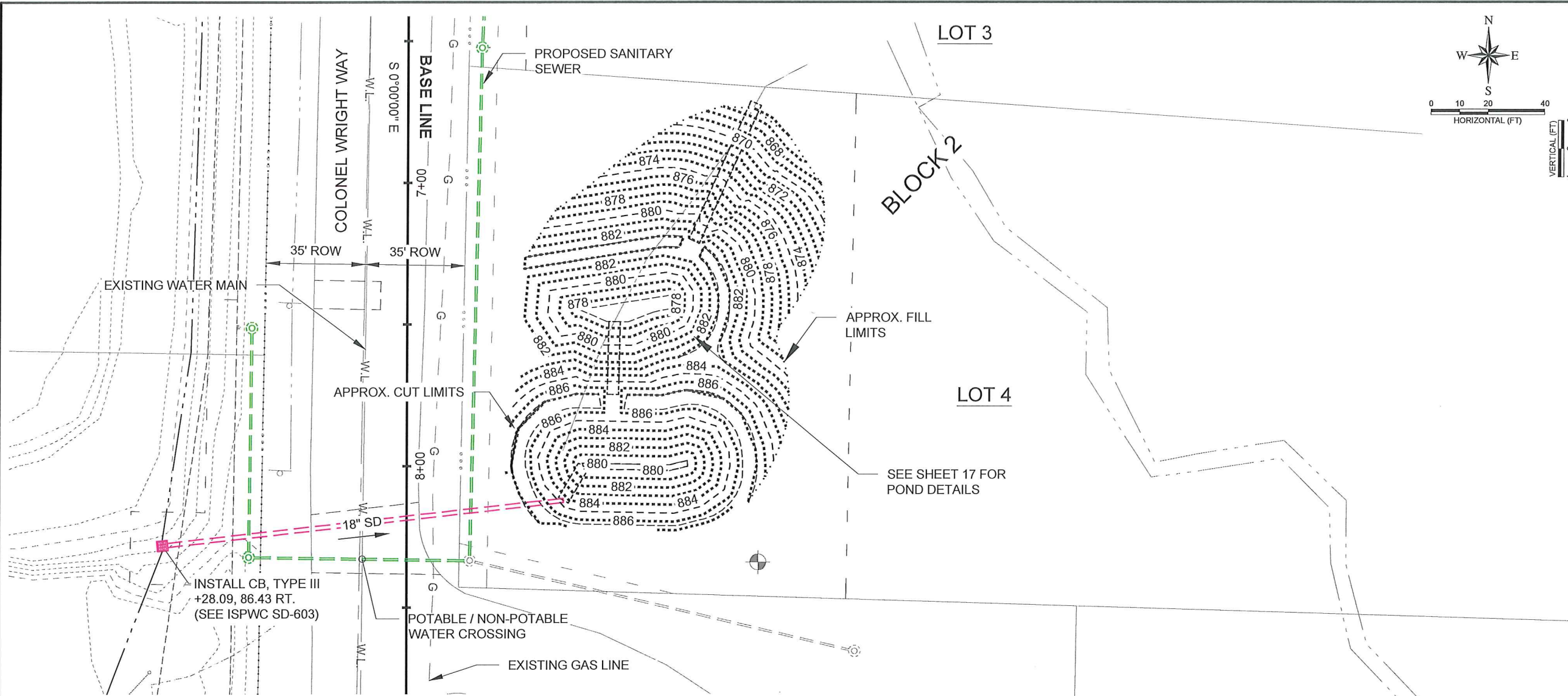
WATER LINE PLAN

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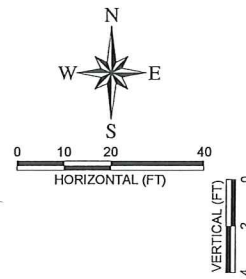
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DRAWING DATE: 12/4/17
DRAWING SCALE: AS SHOWN
SHEET 15 OF 19

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7556
12/04/17
REX L. HARDING

PLOT DATE: 12/4/2017
212635 2016 PORT GRADING PROJECTCADDOR2635-STORM PLANDWG



STORM DRAINAGE CENTERLINE PROFILE STA: 0+00 - 2+50



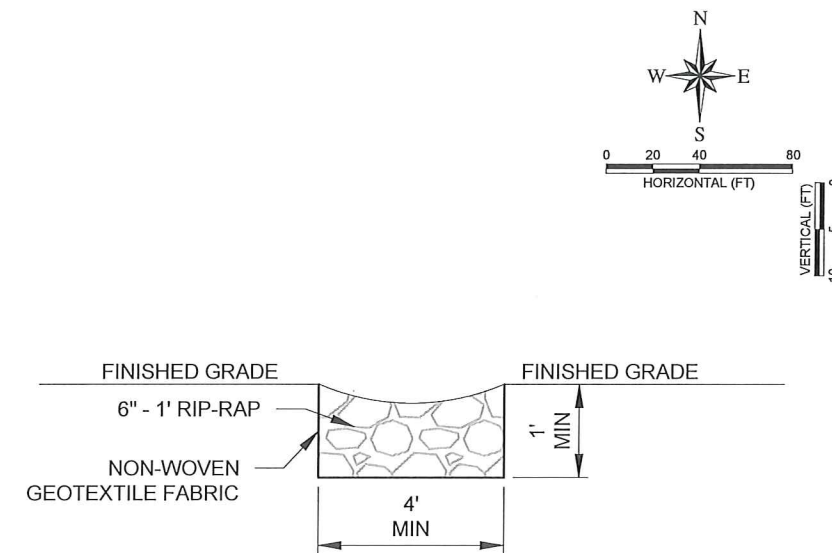
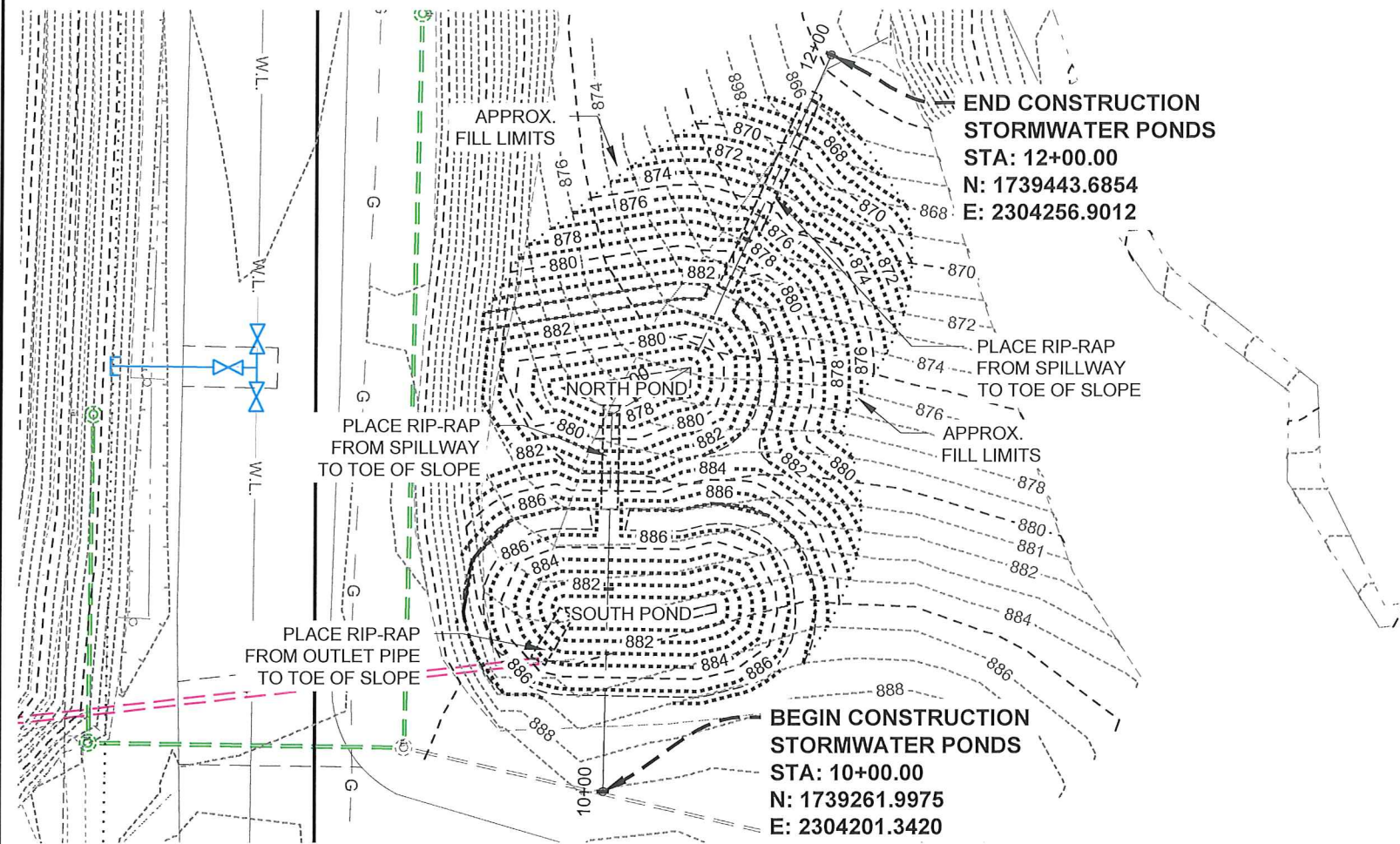
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PORT OF LEWISTON 2017 PORT GRADING PROJECT 2017				STORM PLAN			
DESIGNED		DESIGN CHECKED		DETAILED		DRAWING CHECKED	
WDR	RLH	WDR	RLH	WDR	RLH	WDR	RLH
FILE NAME 2635-STORM PLAN.dwg				NO. DATE BY			
DRAWING DATE 12/4/17				REVISIONS			
DRAWING SCALE AS SHOWN				DESCRIPTION			
SHEET 16 OF 19				DRAWINGS OF RECORD			

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

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



RIP-RAP SPILLWAY DETAIL
N.T.S.

NORTH POND INFORMATION

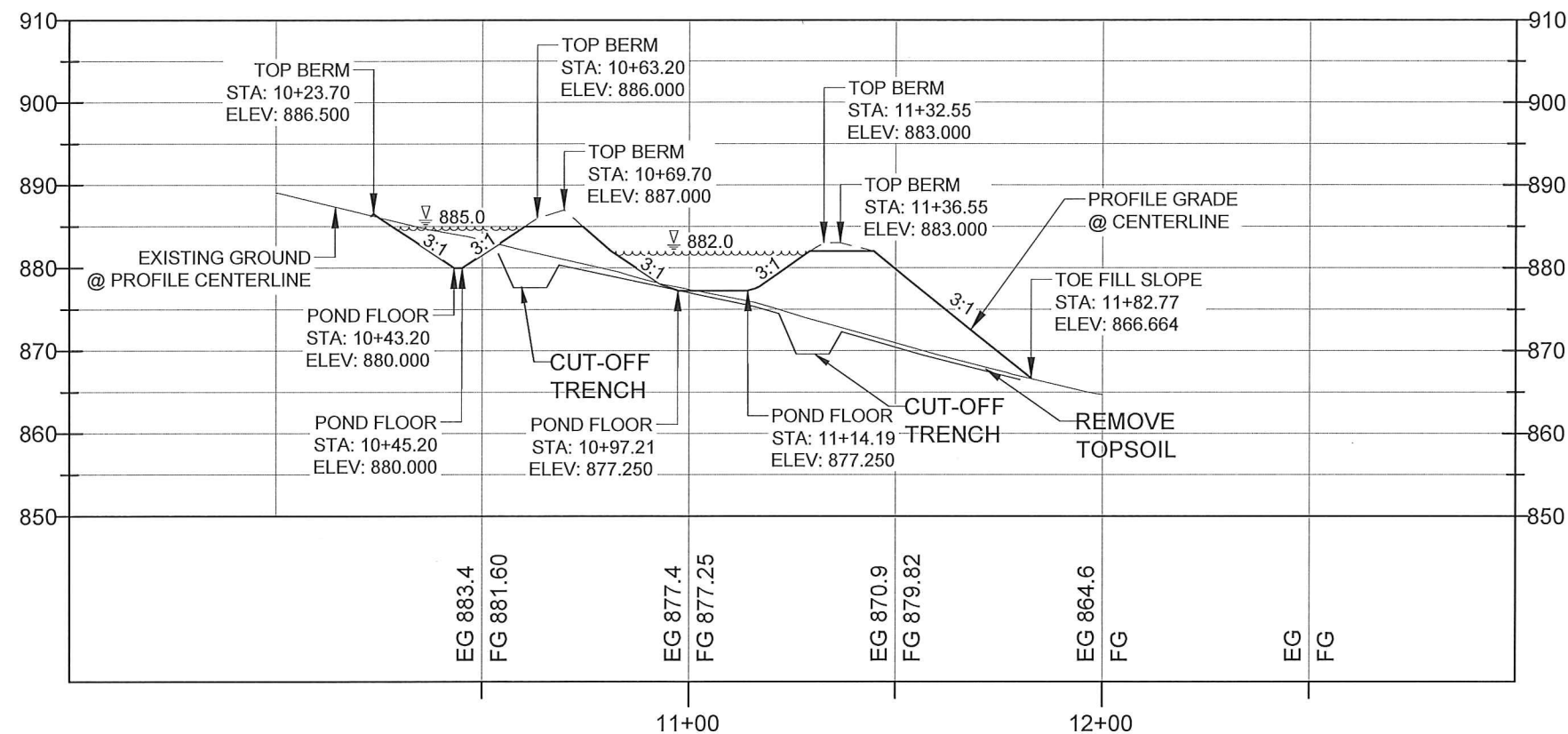
FLOOR ELEV: 877.75
TOP WATER ELEV: 882.00
TOP BERM ELEV: 883.00
FLOOR AREA: 157.26 SF
WATER SURFACE AREA: 2031.34 SF
POND VOLUME: 4,650.78 CU FT

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

NOTES:

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



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

RIEDEL
Engineering

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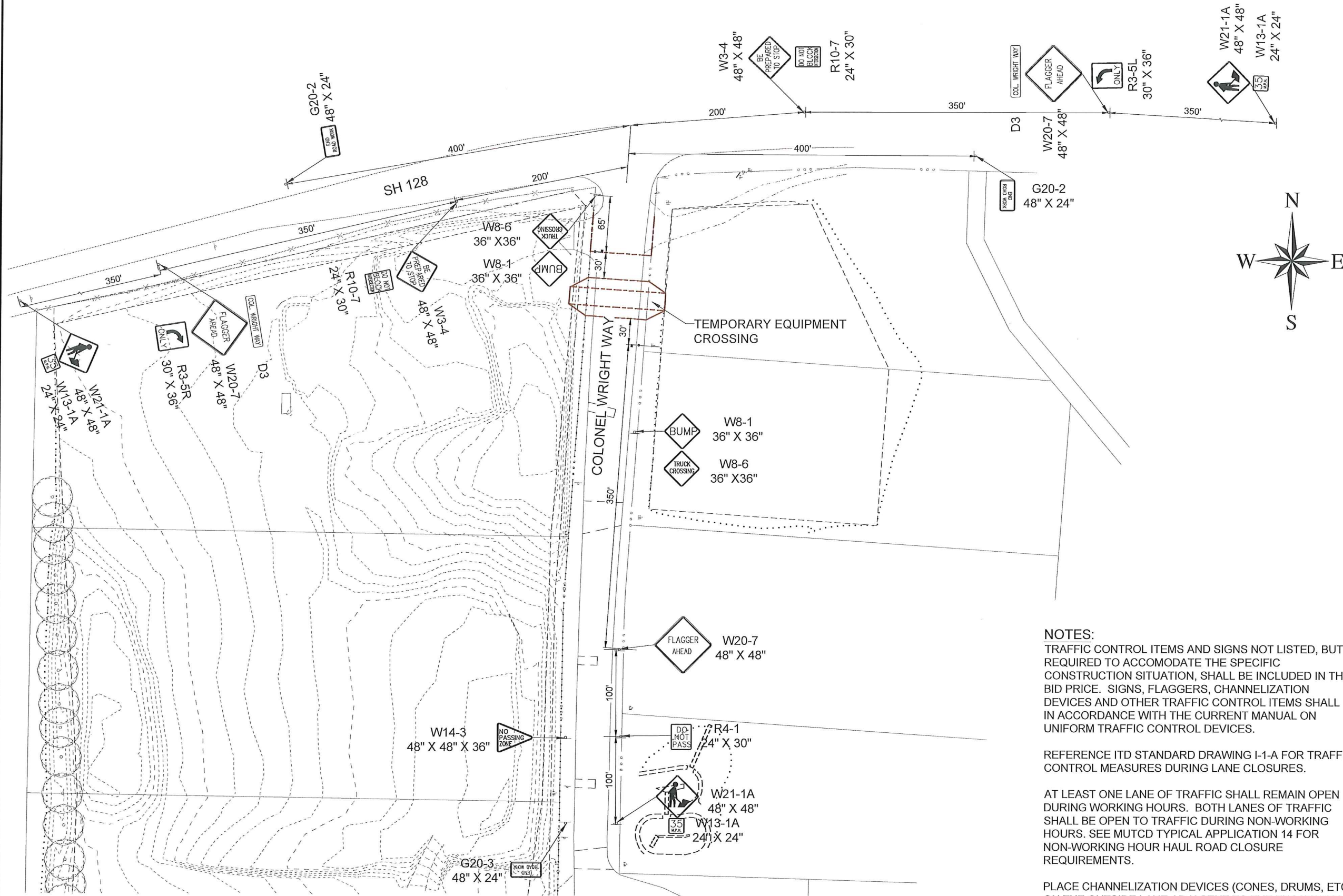
PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

STORM POND DETAILS

NO.	DATE	BY	DESCRIPTION
1	12/04/17	RLH	DRAWINGS OF RECORD
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DESIGNED: WDR
DESIGN CHECKED: RLH
DETAILED: RLH
DRAWING CHECKED: WDR
FILE NAME: 2635-STORM POND.dwg
DRAWING DATE: 2/23/17
DRAWING SCALE: AS SHOWN
SHEET 17 OF 19

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



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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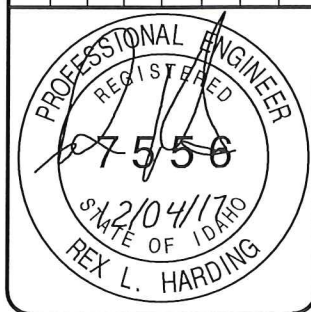
PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

TRAFFIC CONTROL PLAN

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	12/04/17	RLH	DRAWINGS OF RECORD
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DESIGNED WDR	DESIGN CHECKED RLH	DETAILED WDR	DRAWING CHECKED RLH	FILE NAME 2635-TRAFFIC.dwg	DRAWING DATE 12/4/17	DRAWING SCALE AS SHOWN	SHEET 18 OF 19
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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.I)
BMP #36 - SILT FENCE (ITEM 1003.4.I.C.I)
BMP #42 - PERIMETER DIKE/SWALE (ITEM 1004.4.I.C.I)

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.

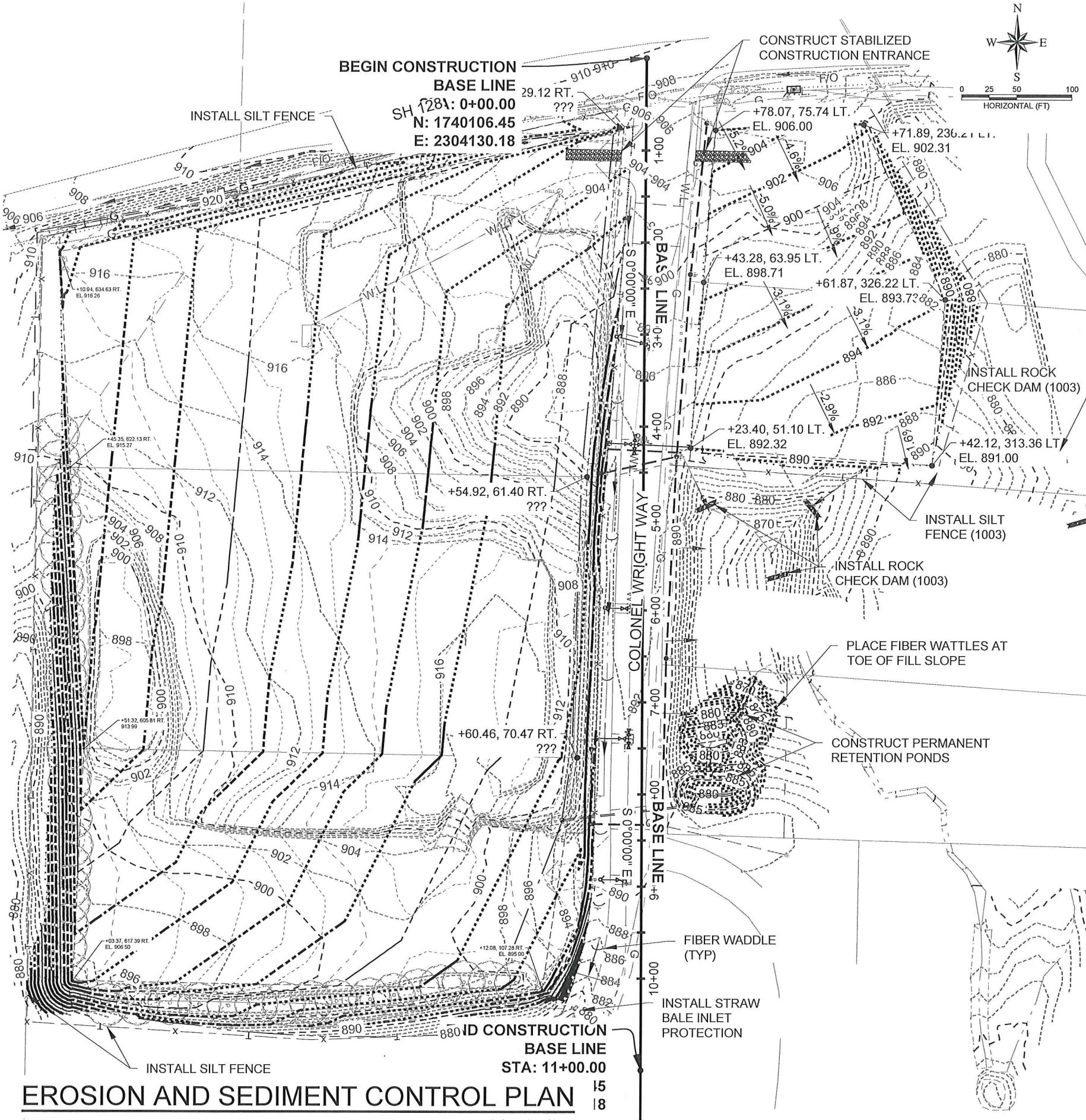
8. SLOPE ROUGHENING (BMP #25) WILL BE REQUIRED ON ALL SLOPES STEEPER THAN 3:1 AND GREATER THAN 5 FEET VERTICAL HEIGHT.

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



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PORT OF LEWISTON
2017 PORT GRADING PROJECT
2017

STORM WATER POLLUTION PREVENTION PLAN				REVISIONS	
NO.	DATE	BY	DESCRIPTION	NO.	DATE
1	12/04/17	RLH	DRAWINGS OF RECORD		
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