

IMPROVEMENT PLANS

HARRY WALL SEWER MAIN EXTENSION PORT OF LEWISTON LEWISTON, IDAHO 83501

AGENCY TELEPHONE NUMBERS

CITY OF LEWISTON BUILDING INSPECTION	(208) 746-1318
CITY OF LEWISTON WATER & SEWER	(208) 746-1316
CITY OF LEWISTON PUBLIC WORKS DEPT.	(208) 746-1316
AVISTA UTILITIES CONTACT: TED BOYLE	(208) 798-1478
CENTURY LINK CONTACT: JULIO MENDEZ	(208) 798-8380
CABLE ONE CONTACT: DAN SMITH	(208) 746-3336
UNDERGROUND UTILITY LOCATE (CALL 48 HOURS BEFORE YOU DIG)	1-800-342-1585

DEVELOPER:
PORT OF LEWISTON
1626 6TH AVENUE N.
LEWISTON, ID 83501

CONTACT: DAVE DOERINGSFELD (208) 743-5531

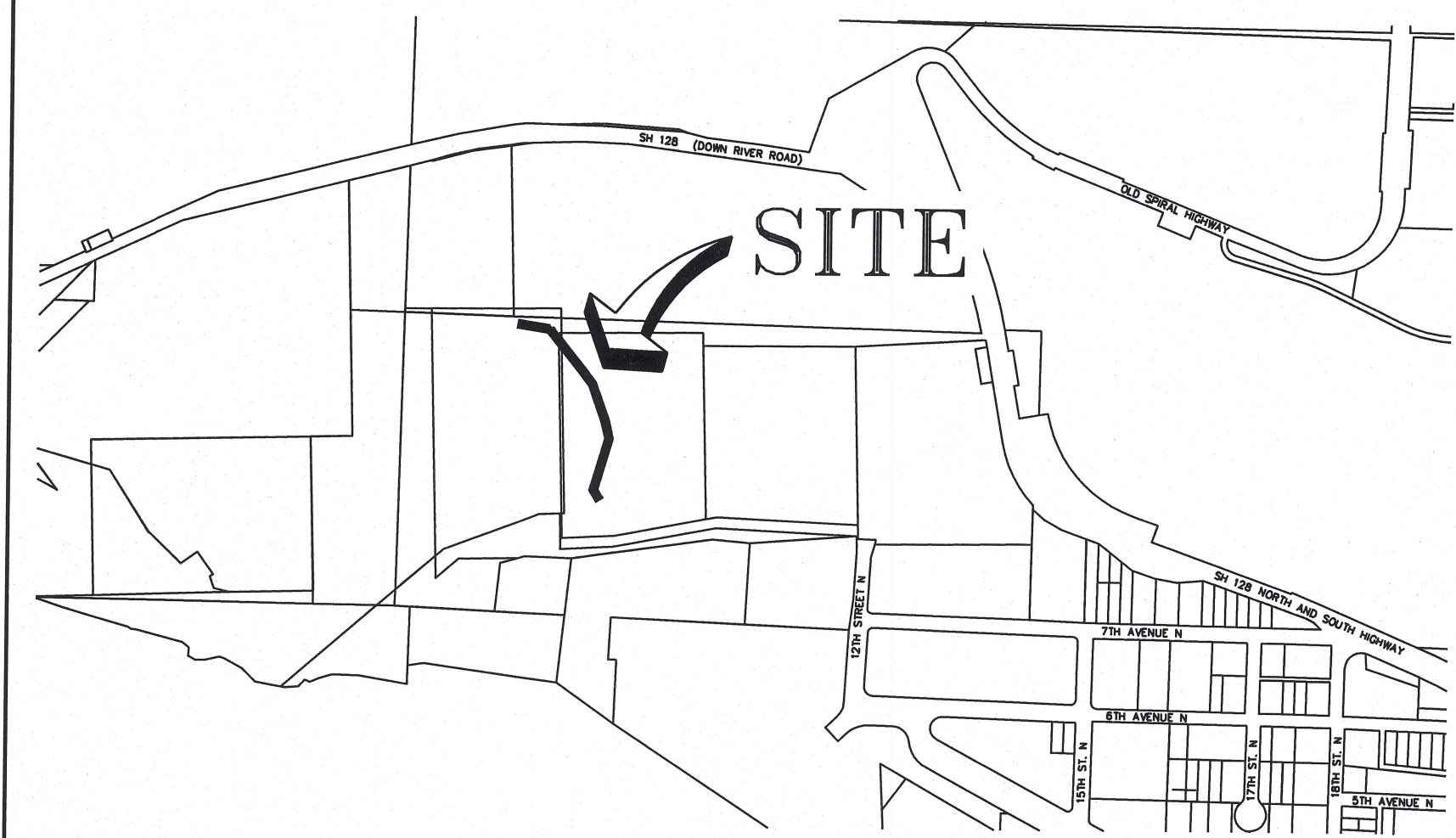
CONSTRUCTION NOTES

- THE CONTRACTOR SHALL PAY FOR ALL NECESSARY PERMITS AND FEES.
- THE CONTRACTOR SHALL INVESTIGATE ON SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS OF THE PROJECT AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY IN THE CONTRACT DOCUMENTS REQUIRING MODIFICATION PRIOR TO PROCEEDING.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PREVENTATIVE MEASURES TO PROTECT THE EXISTING IMPROVEMENTS. ANY DAMAGE SHALL BE REPLACED AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL COORDINATE THE WORK SCHEDULE SO AS TO HAVE A MINIMUM IMPACT ON THE EXISTING TRAFFIC. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PER IDAHO TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS.
- OWNER'S PROPERTY CORNERS SHALL BE PROTECTED AT ALL TIMES, AND THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF IDAHO TO REFERENCE ALL CORNERS. UPON COMPLETION OF THE PROJECT, ALL EXISTING CORNERS DAMAGED BY CONSTRUCTION OR OTHER ACTIVITY SHALL BE REPLACED BY A PROFESSIONAL LAND SURVEYOR.
- ALL WORK SHALL CONFORM TO STATE AND LOCAL CODES AND CONFORM TO THE CITY OF LEWISTON STANDARD DRAWINGS AND STANDARD TECHNICAL SPECIFICATIONS.
- SITE DISTANCES FOR ABUTTING PROPERTIES, DRIVEWAYS, AND INTERSECTIONS MUST BE MAINTAINED.
- IMPROVEMENTS CONSTRUCTED ON RIGHT-OF-WAY REQUIRE A STREET CUT PERMIT OBTAINED AT THE CONSTRUCTION MANAGEMENT SECTION OF THE PUBLIC WORKS DEPARTMENT.
- ALL CONSTRUCTION NOT SPECIFICALLY MENTIONED OR SHOWN SHALL CONFORM TO CITY ORDINANCES AND STANDARDS.
- SANITARY DISPOSAL TO BE PER CITY OF LEWISTON STANDARDS.
- SPECIAL INSPECTION IS REQUIRED FOR ITEMS LISTED IN THE SPECIAL INSPECTIONS FORM.
- ALL EXISTING LIVE SEWERS SHALL BE KEPT IN SERVICE AT ALL TIMES. PROVISIONS SHALL BE MADE FOR DISPOSAL OF SEWAGE FLOW IF ANY EXISTING SEWERS ARE DAMAGED. DAMAGE TO EXISTING SEWERS SHALL BE REPAIRED BY THE CONTRACTOR, AT NO EXPENSE TO THE CITY, TO A CONDITION EQUAL TO OR BETTER THAN CONDITIONS PRIOR TO THE DAMAGE.
- SEWER PIPES SHALL BE P.V.C. POLYVINYL CHLORIDE PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM D 3034 SDR 35 OR ASTM F 789. JOINTS FOR P.V.C. PIPE SHALL CONFORM TO ASTM D 3212 USING RESTRAINED GASKETS CONFORMING TO ASTM F477. FITTINGS FOR P.V.C. PIPE SHALL BE INJECTION MOLDED TEES OR FACTORY SOLVENT CEMENTED SADDLE TEES UNLESS NOTED OTHERWISE.
- UPON COMPLETION, CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS, COMPLETE WITH ELEVATIONS, TO THE ENGINEER OF RECORD TO BE APPROVED.

LEGEND

XXX	PROPOSED CONTOUR	XXX	EXISTING CONTOUR
XXX	PROPOSED GRADE	(XXX)	EXISTING GRADE
SS	PROPOSED SEWER MAIN	⊕	EXISTING MONUMENT
●	PROPOSED WASTEWATER TYPE 1A MANHOLE	▨	EXISTING A.C.
		SS	EXISTING SEWER
		Ⓢ	EXISTING MANHOLE
---	PROPERTY LINE		
---	CENTER LINE OF STREET		

VICINITY MAP



APPLICABLE STANDARD DETAILS

- | | |
|-----|------------------------------------|
| 1-4 | BACKFILL - CLASS A |
| 5-4 | WASTEWATER TYPE 1A MANHOLE |
| 5-6 | WASTEWATER CONCRETE MANHOLE COLLAR |
| 5-7 | WASTEWATER MANHOLE FRAME AND COVER |
| 5-8 | WASTEWATER MANHOLE CHANNEL DETAIL |

CONTRACTOR TO OBTAIN A CURRENT CITY OF LEWISTON STANDARDS BOOKLET FROM THE PUBLIC WORKS DEPARTMENT.

SITE PERMIT QUANTITIES

EXCAVATION	943	C.Y.
EMBANKMENT	5,532	C.Y.
SEWER MAIN PIPE	951	L.F.
SEWER MANHOLE	7	EA.
6" CRUSHED ROCK SURFACE	7760	S.F.

SHEET INDEX

SHEET 1	COVER SHEET
SHEET 2	TEMPORARY EROSION & SEDIMENT CONTROL
SHEET 3	SANITARY SEWER STA. 1+00 TO 6+00
SHEET 4	SANITARY SEWER STA. 6+00 TO 10+65
SHEET 5	DETAILS

RECORD DRAWING 03-07-2016

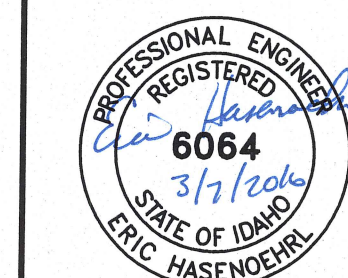
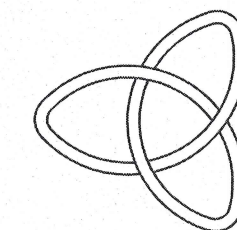
No.	DATE	BY	DESCRIPTION

COVER SHEET

HARRY WALL SEWER MAIN EXTENSION
PORT OF LEWISTON, 1626 6TH AVE. N
LEWISTON, ID 83501

KELTIC ENGINEERING, Inc.

315 Adams Lane ◊ Lewiston, Idaho 83501 ◊ (208) 745-2135 ◊ (208) 745-2136 fax
9425 North Nevada Street, Ste. 204 ◊ Spokane, WA 99218 ◊ (509) 464-3000 ◊ (509) 464-3005 fax
◊ Development ◊ Planning ◊ Design ◊ Construction Management



DRAWN BY:	JDM	CHECKED BY:	EFH
DESIGNED BY:	EFH		
DATE:	12/22/14		
LAST REV:	02/10/15 (MSR)		
PROJECT NO.	14-1302		
SHEET NO.	1	OF	5

EROSION AND SEDIMENT CONTROL NOTES

1. APPROVAL OF THE EROSION CONTROL ELEMENT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT SITE OR DRAINAGE DESIGN.

2. IMPLEMENTATION, CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF ALL EROSION CONTROL MEASURES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND PERMANENT STABILIZATION IS ESTABLISHED.

3. THE EROSION CONTROL FACILITIES ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.

4. ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

5. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

6. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

7. DURING INACTIVE PERIODS ON THE SITE, THE CONTRACTOR MUST INSPECT AND MAINTAIN EROSION CONTROL FACILITIES ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A STORM.

8. SEED, MULCH, AND FERTILIZE ALL DISTURBED GROUND NOT RECEIVING HARD SURFACE AT THE EARLIEST POSSIBLE TIME. USE SEED MIXES AND RATES TO MATCH EXISTING PLANTING.

9. EROSION AND DUST CONTROL MEASURES MUST BE USED DURING CONSTRUCTION TO REDUCE OR ELIMINATE BLOWING DUST, EXCESSIVE RUNOFF, AND SOIL EROSION ACROSS PROPERTY LINES AND INTO STREETS AND RIGHT-OF-WAY, AND TO ELIMINATE TRACKING SOIL AND MUD ONTO STREETS FROM CONSTRUCTION EQUIPMENT AND VEHICLES. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

10. MATERIAL TRACKED ONTO THE ROADWAY CANNOT BE WASHED INTO THE STORM SYSTEM.
11. STREETS SHALL BE SWEEPED PRIOR TO A STORM EVENT OR AT THE REQUEST OF THE ENGINEER OR THE CITY.

12. ALL DENUDEED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE, MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS / GRAIN VARIETIES, STRAW / HAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING OR BLANKETS AS SHOWN ON SITE MAP.

13. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED AS SHOWN ON THE PLANS. THESE AREAS SHALL BE SEEDED, SODDED, AND / OR VEGETATED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND / OR LANDSCAPE PLAN.

14. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

15. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM DRAINAGE SYSTEMS IN CONJUNCTION WITH STABILIZATION OF THE SITE.

16. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

17. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES TO PREVENT EROSION AND POLLUTANT DISCHARGE.

18. GENERAL CONTRACTOR IS TO DESIGNATE / IDENTIFY AREAS ON THE SITE MAPS, INSIDE OF THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIALS STORAGE.

BMP 1-SEQUENCE OF WORK

NOTE: UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTABLE SANITARY UNIT, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

1. INSTALL BMP'S

2. BEGIN DEMOLITION OF THE SITE (STOCKPILE ALL TOPSOIL FOR LATER USE).

3. INSTALL ROCK DITCH / ARMORED DITCH.

4. MASS GRADING.

5. INSTALLATION OF SEWER LINE.

6. TEMPORARY STABILIZATION OF DISTURBED AREAS WHERE WORK HAS CEASED FOR 14 DAYS OR MORE.

7. PERMANENT STABILIZATION OVER ALL DISTURBED AREAS.

8. REMOVE ALL REMAINING BMP'S.

EROSION AND SEDIMENT CONTROL
BEST MANAGEMENT PRACTICES

From Stormwater Catalog of Stormwater BMP's for Idaho Cities and Counties

- BMP 1

BMP 2

BMP 3

BMP 4

BMP 7

BMP 9

BMP 10

BMP 12

BMP 14

BMP 21
- TIMING OF CONSTRUCTION

STAGING AREAS

PRESERVATION OF EXISTING VEGETATION

CLEARING LIMITS

DUST CONTROL

STOCKPILE MANAGEMENT

SPILL PREVENTION AND CONTROL

WASTE MANAGEMENT

SANITARY/SEPTIC WASTE MANAGEMENT

SEEDING

ACREAGE SUMMARY	
SITE AREA	27.5 AC ±
DISTURBED AREA	0.96 AC ±
IMPERVIOUS AREA (BUILDING)	0.00 AC ±
IMPERVIOUS AREA (EXCLUDING BUILDING AREA)	0.00 AC ±
TOTAL IMPERVIOUS AREA AT COMPLETION	0.00 AC ±
PERVIOUS / SEEDED AREA AT COMPLETION	0.96 AC ±

STORMWATER OUTFLOW	
INFILTRATES INTO GROUNDWATER STRATUM OR RUNOFF THROUGH EXISTING DRAINAGEWAYS	
CLEARWATER RIVER – 800 FEET SOUTH	

BENCHMARK DATUM
TBM - SSMH #4 PER RECORD DRAWINGS
BY RIEDESEL & ASSOCIATES
ELEV. = 731.36

BMP MAINTENANCE NOTES

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.

2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.

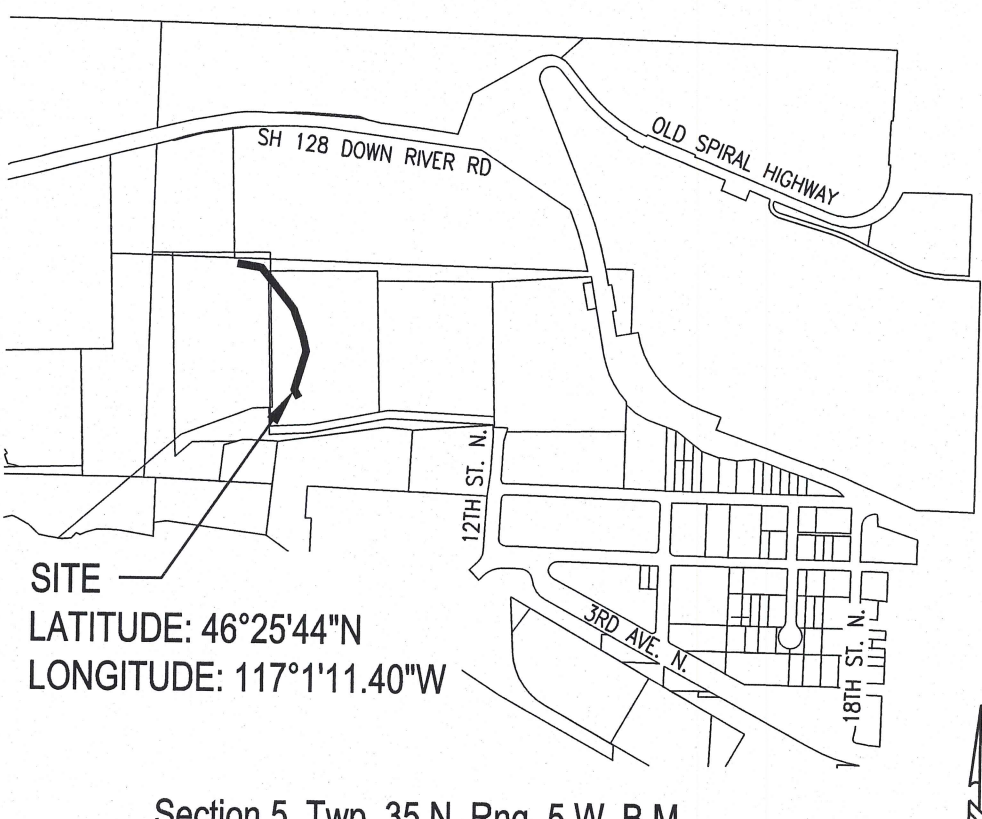
3. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.

4. PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS. ANY DEBRIS AND / OR SEDIMENT REACHING THE PUBLIC STREET SHALL BE CLEANED IMMEDIATELY BY A METHOD OTHER THAN FLUSHING.



USGS QUADRANGLE MAP
CLARKSTON, WASHINGTON
LEWISTON ORCHARDS NORTH, IDAHO

Not to Scale



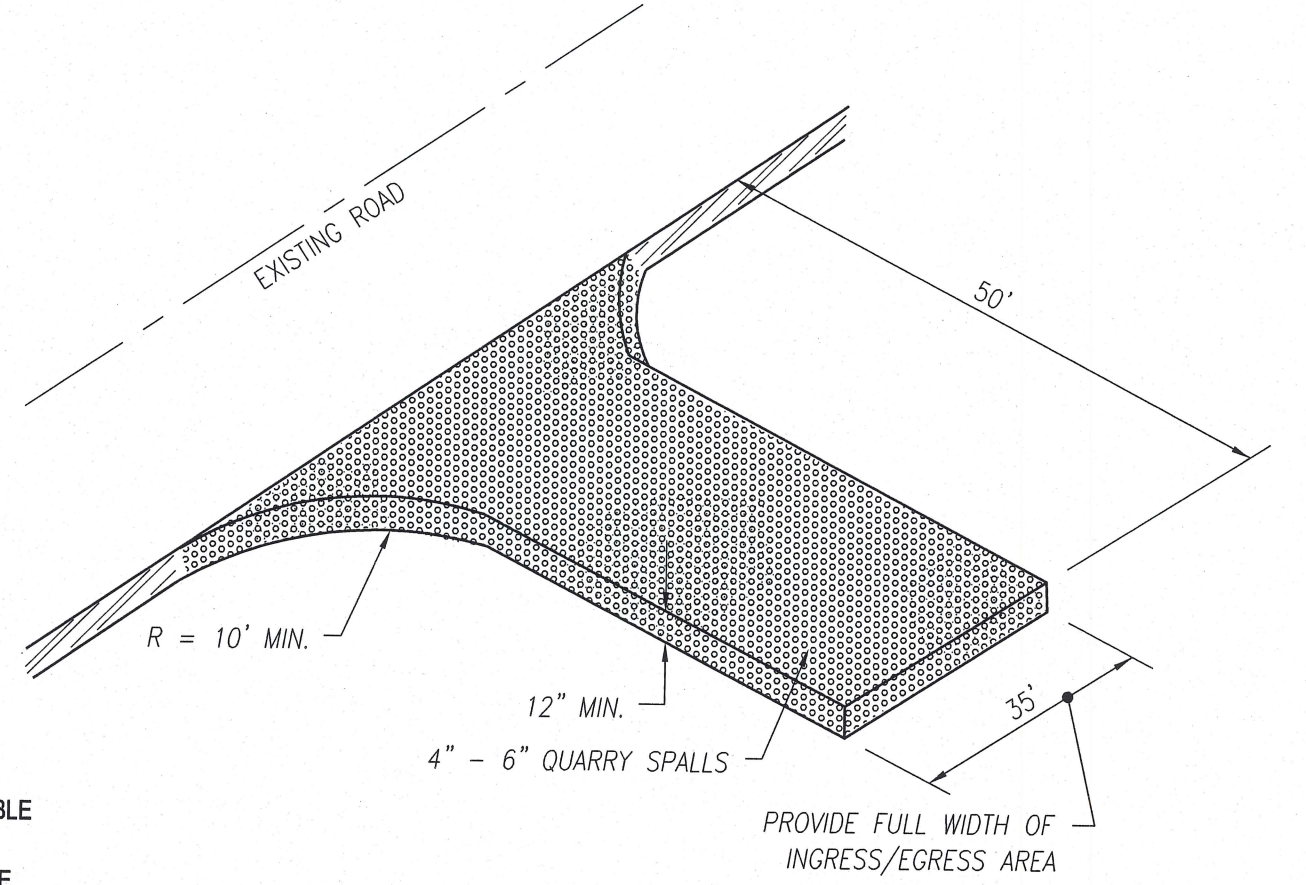
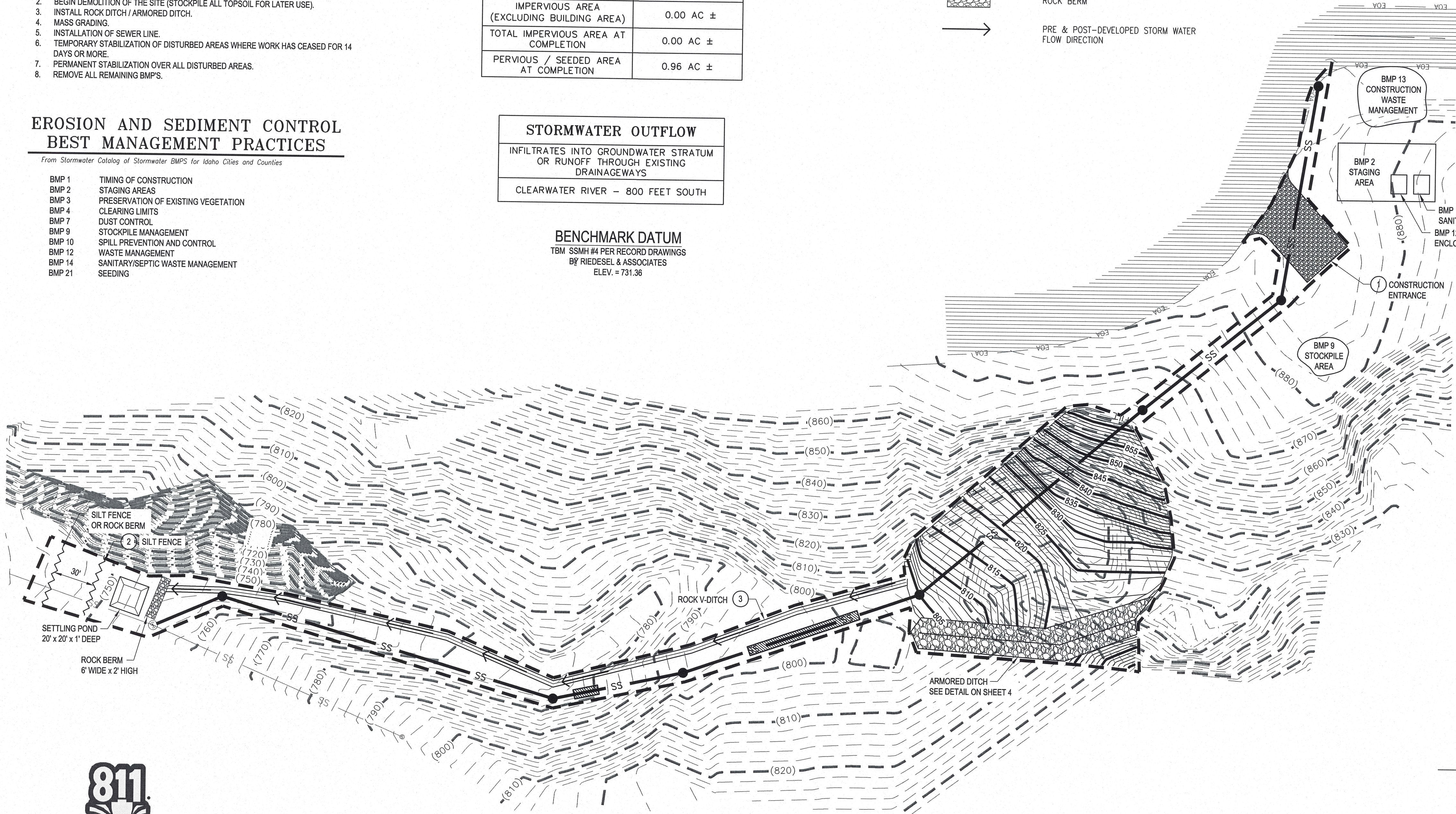
Section 5, Twp. 35 N, Rng. 5 W, B.M.

SITE LOCATION MAP

Not to Scale

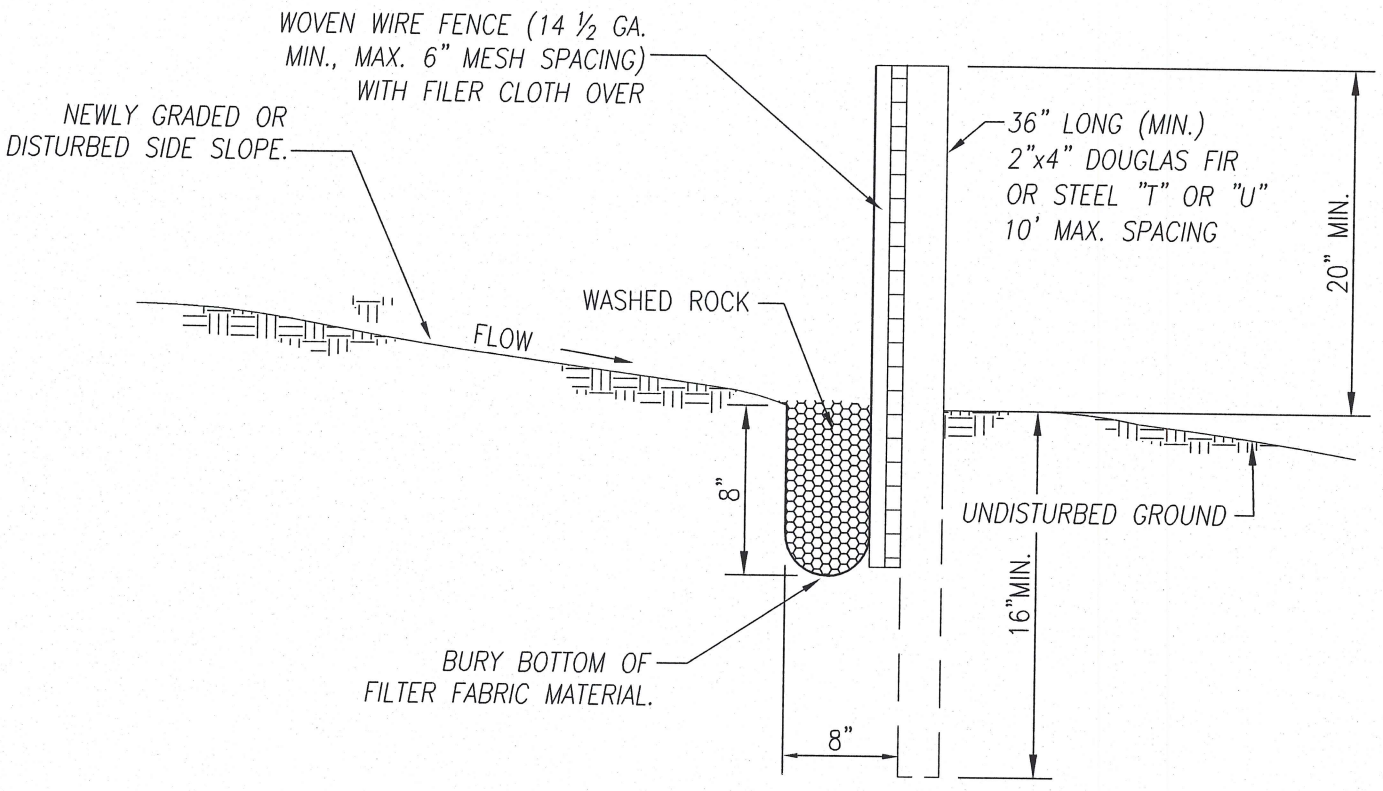
LEGEND

- LIMITS OF DISTURBANCE
- SILT FENCE
- ROCK BERM
- PRE & POST-DEVELOPED STORM WATER FLOW DIRECTION



STABILIZED CONSTRUCTION ENTRANCE

NTS



SILT FENCE

NTS

ROCK LINED V-DITCH

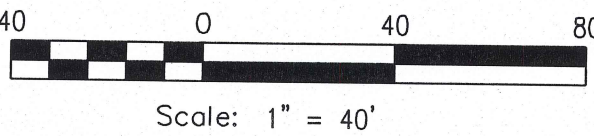
NTS

NO RECORD DRAWING



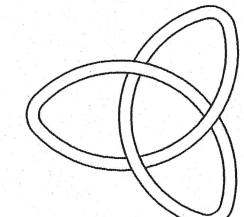
Know what's below.
Call before you dig.

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE
YOU DIG, GRADE, OR EXCAVATE FOR THE
MARKING OF UNDERGROUND MEMBER
UTILITIES

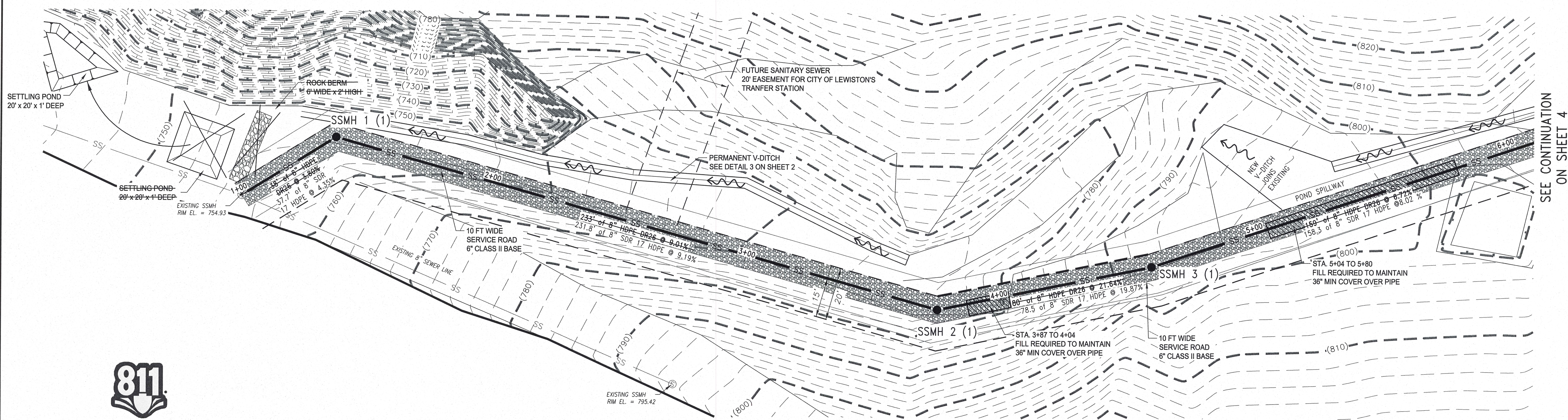
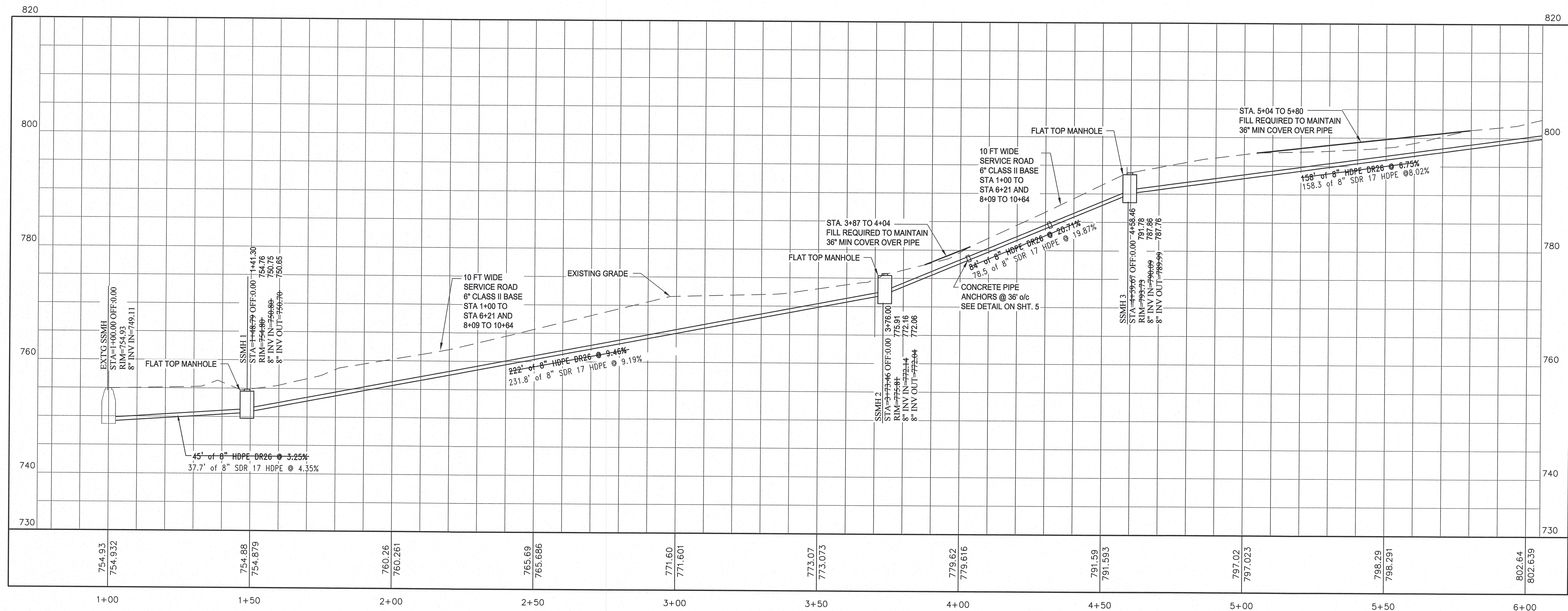


TEMP. EROSION & SEDIMENT CONTROL
HARRY WALL SEWER MAIN EXTENSION
PORT OF LEWISTON, 1626 6TH AVE. N
LEWISTON, ID 83501

KELTIC ENGINEERING, INC.



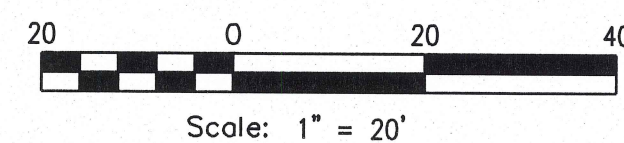
DRAWN BY: JDM
DESIGNED BY: EFH
DATE: 1/2/22/14
LAST REV.:
PROJECT NO. 14-1302
SHEET NO. 2 OF 5



Know what's below.
Call before you dig.

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE
YOU DIG, GRADE, OR EXCAVATE FOR THE
MARKING OF UNDERGROUND MEMBER
UTILITIES

SANITARY SEWER - STA. 1+00 - 6+00



RECORD DRAWING 03-07-2016

DESCRIPTION

DATE

BY

SANITARY SEWER STA. 1+00 - 6+00

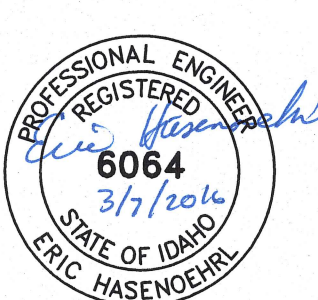
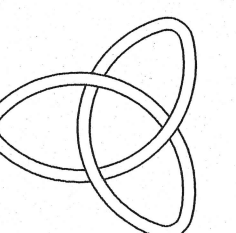
HARRY WALL SEWER MAIN EXTENSION

PORT OF LEWISTON, 1626 6TH AVE. N

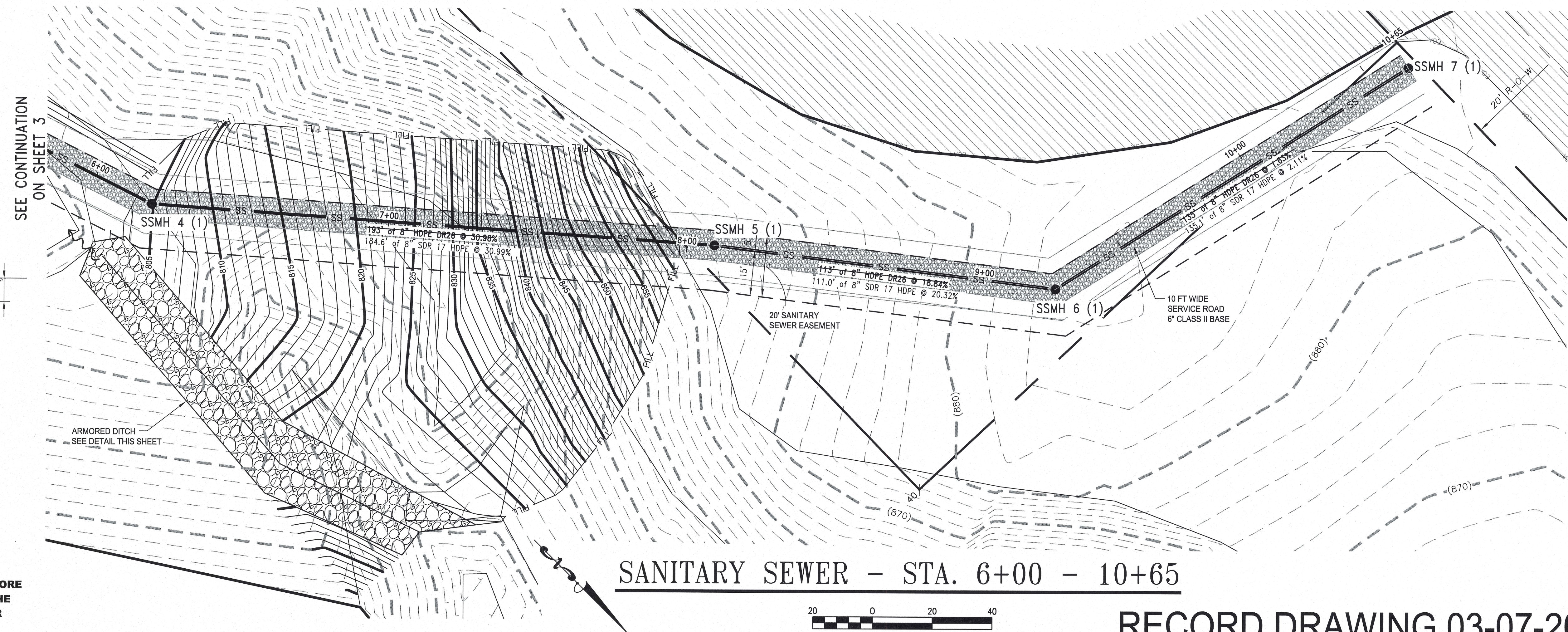
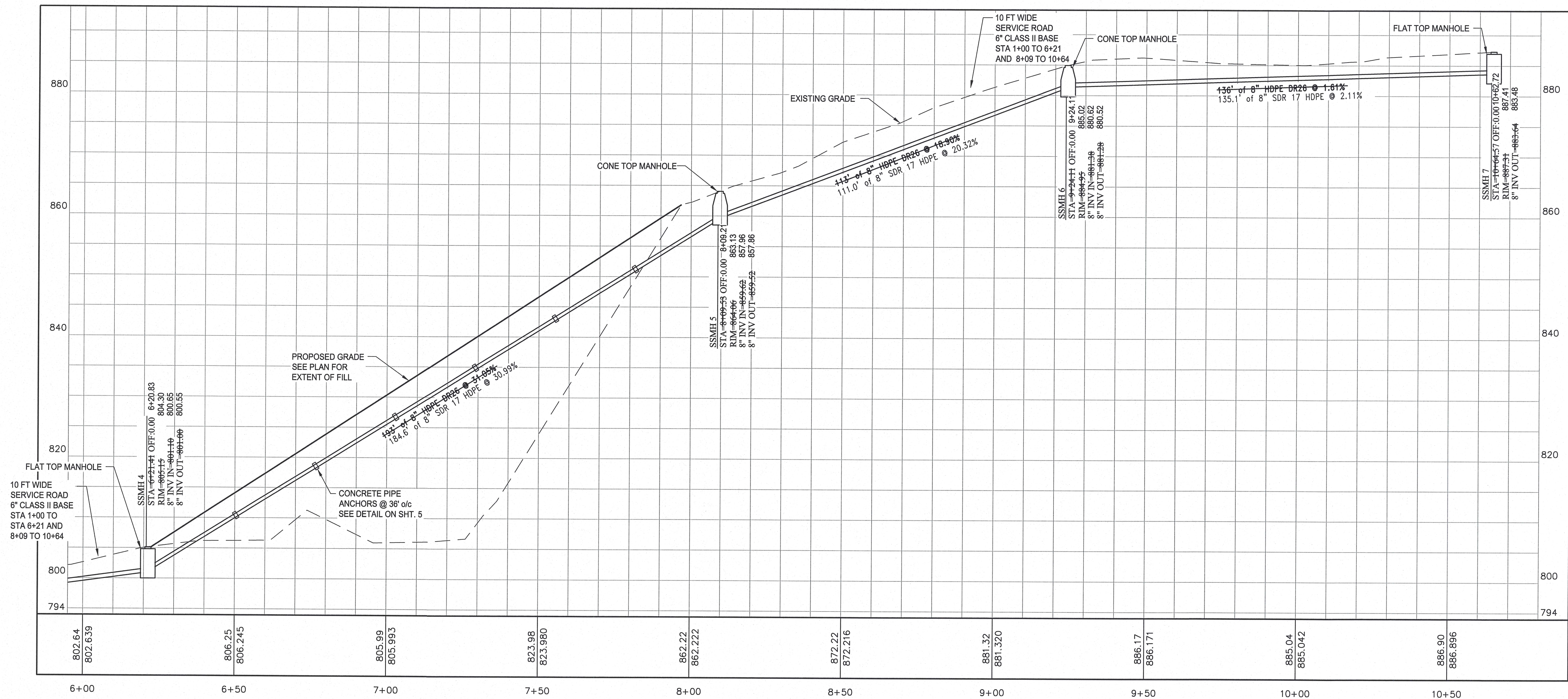
LEWISTON, ID 83501

KELTIC ENGINEERING, INC.

315 Adams Lane • Lewiston, Idaho 83501 • (208) 743-2135 • (208) 743-2136 fax
9425 North Nevada Street, Ste 204 • Spokane, WA 99218 • (509) 464-3000 • (509) 464-3005 fax
• Development • Planning • Design • Construction Management



DRAWN BY: JDM
DESIGNED BY: EFH
DATE: 12/22/14
LAST REV: 02/10/16 (MSR)
PROJECT NO: 14-1302
SHEET NO: 3 OF 5



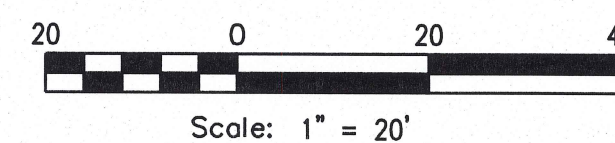
ARMORED V-DITCH
NTS



Know what's below.
Call before you dig.

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE
YOU DIG, GRADE, OR EXCAVATE FOR THE
MARKING OF UNDERGROUND MEMBER
UTILITIES

SANITARY SEWER - STA. 6+00 - 10+65



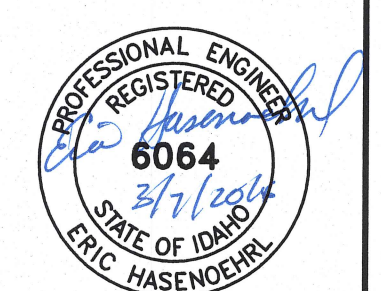
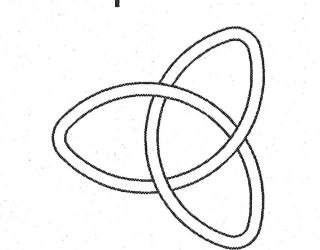
RECORD DRAWING 03-07-2016

No. DATE BY DESCRIPTION

SANITARY SEWER STA. 6+00 - 10+65
HARRY WALL SEWER MAIN EXTENSION
PORT OF LEWISTON, 1626 6TH AVE. N
LEWISTON, ID 83501

KELTIC ENGINEERING, INC.

315 Adams Lane • Lewiston, Idaho 83501 • (208) 743-2135 • (208) 743-2136 fax
9425 North Nevada Street, Ste 204 • Spokane, WA 99218 • (509) 464-3000 • (509) 464-3005 fax
• Development • Planning • Design • Construction Management



DRAWN BY: JDM
CHECKED BY: EFH
DESIGNED BY: EFH
DATE: 12/22/14
LAST REV: 03/04/16 (MSR)
PROJECT NO: 14-1302
SHEET NO: 4 OF 5

