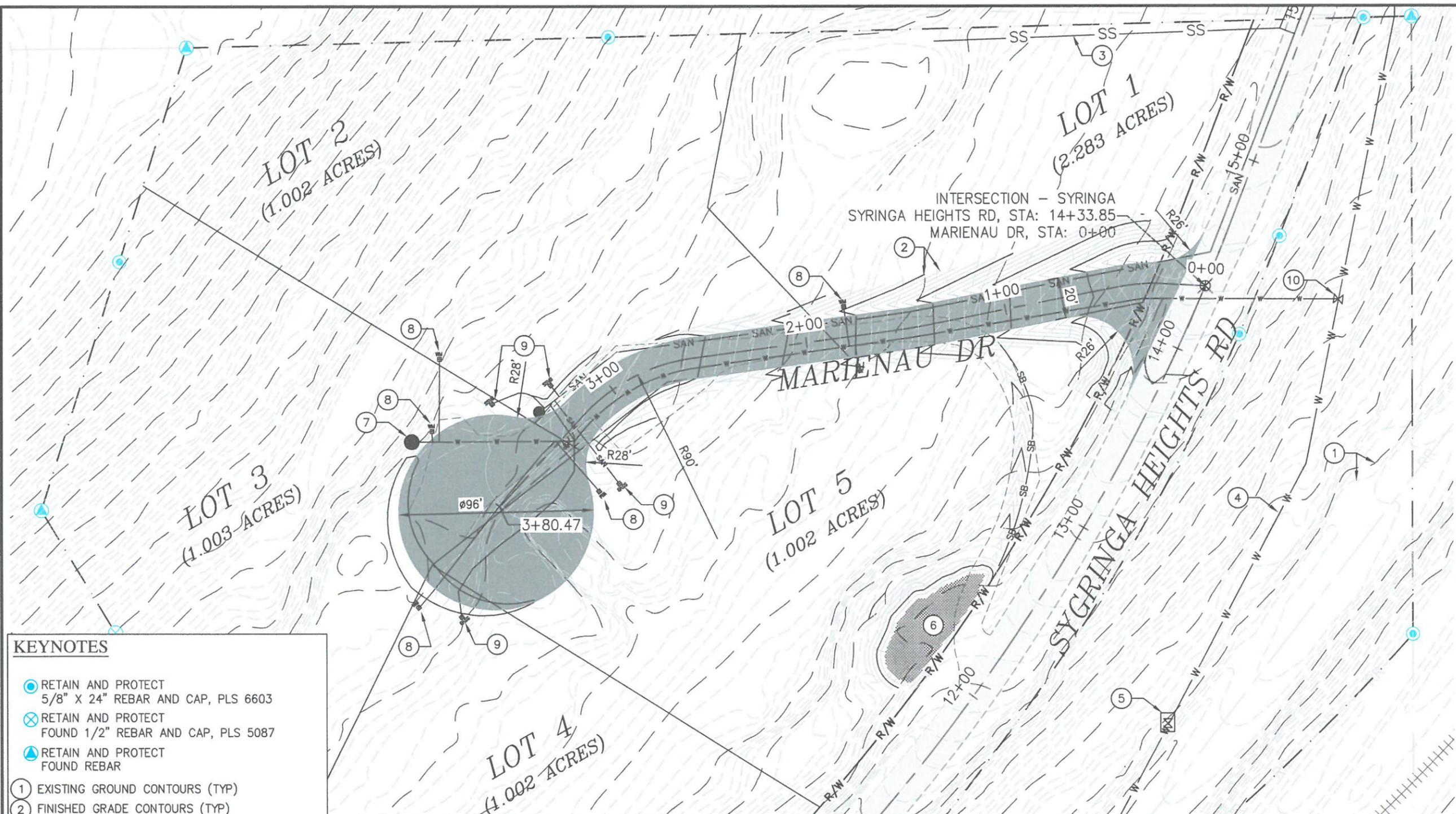


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**KEYNOTES**

- 1 EXISTING GROUND CONTOURS (TYP)
- 2 FINISHED GRADE CONTOURS (TYP)
- 3 RETAIN & PROTECT EXISTING SEWER SERVICE
- 4 RETAIN & PROTECT EXISTING 4" WATER MAIN
- 5 RETAIN & PROTECT EXISTING PRESSURE REDUCING VALVE(S)
- 6 PROPOSED STORMWATER FACILITY
- 7 PROPOSED 1550 GAL WATER TANK FOR FIRE SUPPRESSION
- 8 PROPOSED WATER METER
- 9 PROPOSED CITY OF DOVER SEWER SERVICE CONNECTION
- 10 SADDLE TAP AND VALVE FOR NEW 2" PE WATER

**UNDERGROUND UTILITIES**

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS TO CONTACT UTILITY LOCATORS BEFORE COMMENCING WORK. UNDERGROUND UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. IT IS POSSIBLE THERE ARE EXISTING UTILITIES WHICH ARE NOT SHOWN HEREON.

**SITE AND DRAINAGE NOTES**

AREA TO BE TREATED (DRIVEWAY IMPERVIOUS AREA): 14,460 SF  
 REQ'D TREATMENT VOLUME OF GIA: 602.5 CF  
 TREATMENT VOLUME PROVIDED: 624 CF @ 4.8" DEPTH  
 ASSUMED FACILITY SOIL INFILTRATION RATE: 2 IN/HR.  
 SCS TR-20 METHOD: TYPE II, 25-YR, 24-HR STORM  
 PEAK 24-HOUR STORM DETENTION DEPTH: 9.25"  
 STORM DETENTION VOLUME PROVIDED: 2,100 CF @ 1' DEPTH

**ESTIMATED GRADING QUANTITIES**

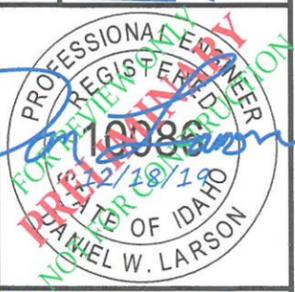
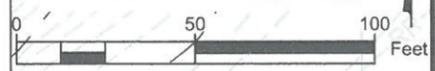
VOLUMES TO TOP OF ROADWAY

VOLUME CUT (CY)	VOLUME FILL (CY)	NET VOLUME (CY)
1286.3	1327.5	41.2 (FILL)

TOTAL DISTURBED AREA  
 30,715 SF (0.71 AC)



Know what's below.  
 Call before you dig.



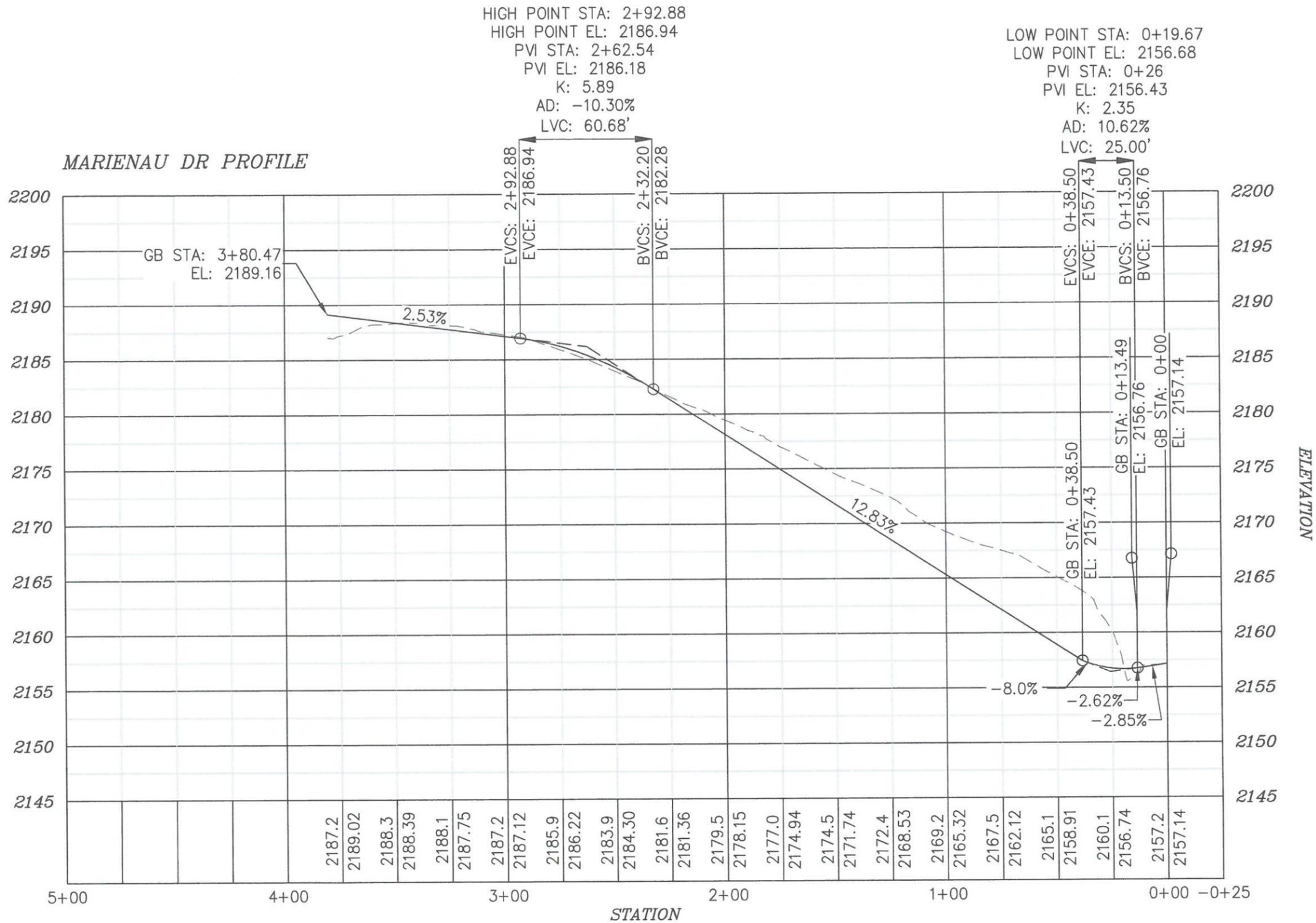
PROJECT NO: 1932  
 DRAWN BY: DWL & ICE  
 CHECKED BY: DWL  
 SCALE: 1"=50' (11"x17" ONLY)

REVISION #	DATE	DESCRIPTION
		RECEIVED DEC 18 2019

SHEET TITLE: MARIENAU DRIVE PLAN  
 OWNER: KRAMER-MARIENAU  
 PROJECT: ORCHARD RIDGE ESTATES DOVER, IDAHO

**7B ENGINEERING**  
 414 CHURCH STREET, SUITE 205 F  
 SANDPOINT, IDAHO 83864  
 (208)263-0623  
 info@7Bengineering.com

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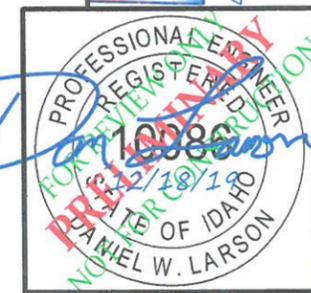


SCALE  
 HORIZONTAL: 1"=50'  
 VERTICAL: 1"=10'

REVISION #	DATE	DESCRIPTION

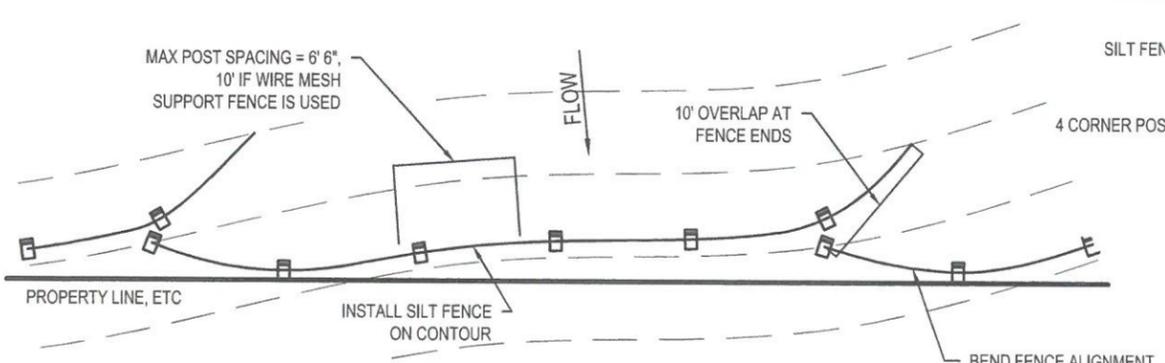
SHEET TITLE	MARIENAU DRIVE PROFILE
OWNER	KRAMER-MARIENAU
PROJECT	ORCHARD RIDGE ESTATES DOVER, IDAHO

**7B ENGINEERING**  
 414 CHURCH STREET, SUITE 205 F  
 SANDPOINT, IDAHO 83864  
 (208)263-0623  
 info@7Bengineering.com



PROJECT NO: 1932  
 DRAWN BY: DWL  
 CHECKED BY: DWL  
 SCALE: AS NOTED (11"x17" ONLY)

RECEIVED DEC 18 2010

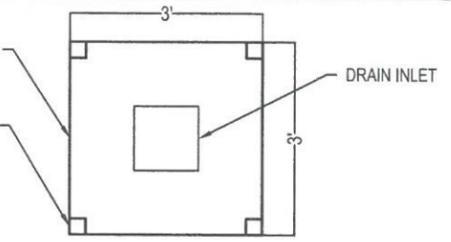


**EROSION CONTROL FENCE**

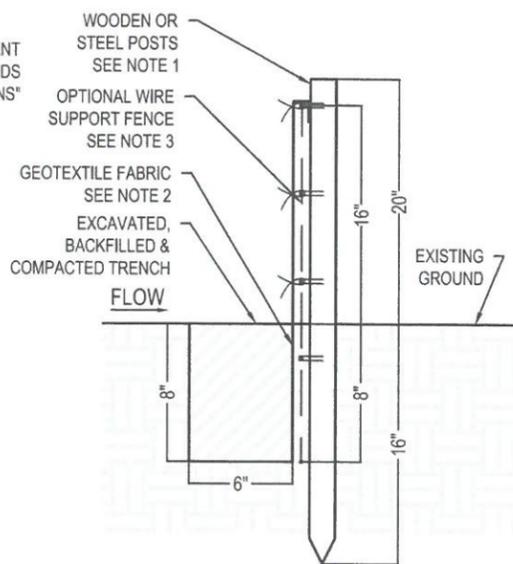
**NOTES:**

- HARDWOOD POSTS SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3 SQUARE INCHES. STEEL POSTS SHALL BE STANDARD "I" OR "U" SECTION WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
- GEOTEXTILES MEETING THE FOLLOWING ARE ACCEPTABLE:
 

PROPERTY	TEST METHOD	MINIMUM AVERAGE
GRAB TENSILE STRENGTH	ASTM D4632	90 LB
GRAB ELONGATION (@ 45 LB MIN)	ASTM D4632	50% MAX
PERMITTIVITY	ASTM D4491	0.05 SEC-1
APPARENT OPENING SIZE	ASTM D4751	#20 OR FINER
ULTRAVIOLET STABILITY RETAINED	ASTM D4355	70% STRENGTH @ 150 HRS
- OPTIONAL WIRE SUPPORT FENCE SHALL BE A MINIMUM OF 14.5 GAUGE WELDED WIRE W/ 6" MESH SPACING.
- IF OPTIONAL WIRE SUPPORT FENCE IS USED, ATTACH TO GEOTEXTILE W/ TIE WIRES OR RINGS AT MINIMUM 24" SPACING AND ATTACH WIRE FENCE TO POSTS W/ STAPLES, TIE WIRES OR RINGS IN 3 PLACES.
- IF OPTIONAL WIRE SUPPORT FENCE IS NOT USED, ATTACH GEOTEXTILE DIRECTLY TO POSTS W/ STAPLES, TIE WIRES OR RINGS IN 3 PLACES.
- WHERE JOINTS IN THE GEOTEXTILE FABRIC ARE REQUIRED, SPLICE ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH, FOLDED OVERLAP.
- INSPECT SILT FENCE PERIODICALLY FOR DAMAGE AND REMOVE SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FENCE.

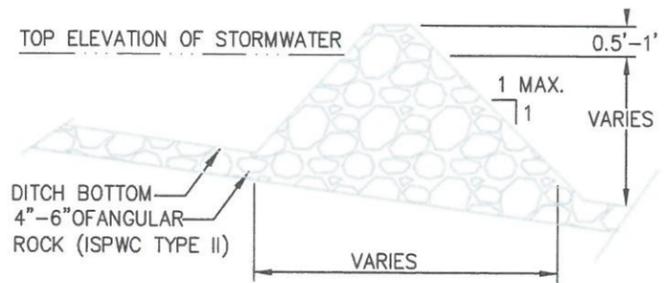


**INLET PROTECTION FENCE**



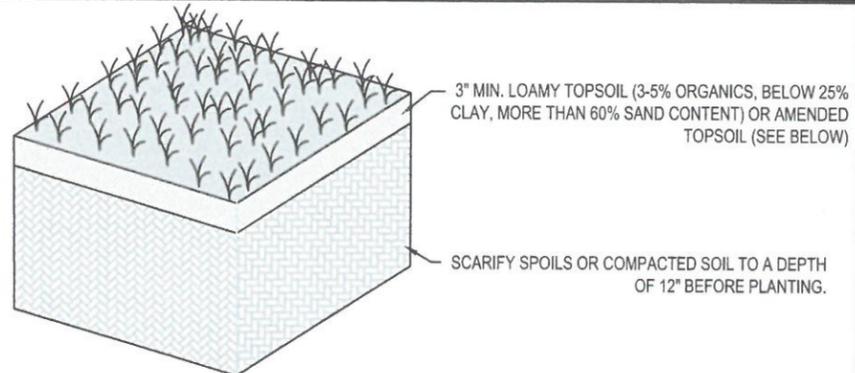
**SECTION**

**A**  
3  
**SILT FENCE**  
N.T.S.



- NOTES:**
- HEIGHT & WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.
  - USE GRAVEL CHECK DAM IN STORMWATER CONVEYANCE CHANNELS AS NEEDED TO PREVENT EROSION.

**B**  
3  
**GRAVEL CHECK DAM**  
N.T.S.

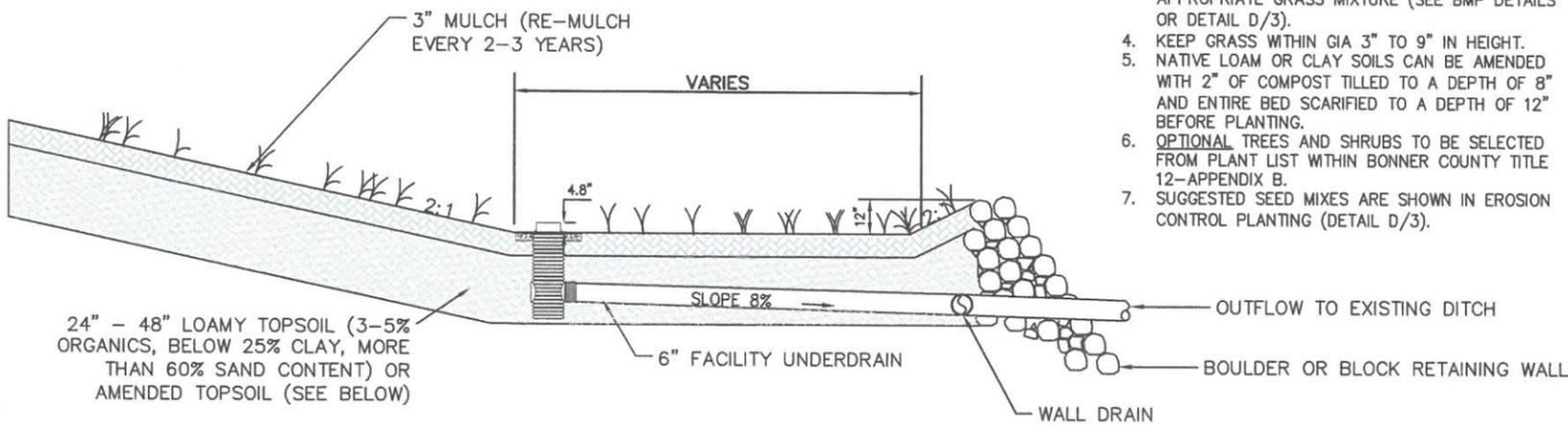


- NOTES:**
- NO IMPERVIOUS AREAS ARE PROPOSED AND NO PERMANENT STORMWATER FACILITIES ARE WARRANTED.
  - DO NOT COMPACT TOPSOIL LAYER.
  - AREA SHALL BE SEEDED WITH APPROPRIATE GRASS MIXTURE OR;
  - GRASSES MAY BE CROPPED OR MOWED TO WITHIN 3" HEIGHT.
  - NATIVE LOAM SOILS CAN BE AMENDED WITH 2" OF COMPOST TILLED TO A DEPTH OF 8" AND ENTIRE BED SCARIFIED TO A DEPTH OF 12" BEFORE PLANTING.

**SUGGESTED SEEDING MIXES:**

GRASSED INFILTRATION AREA:	PERMANENT EROSION CONTROL SEED MIX:
IDAHO FESCUE (60#/AC)	SPRING WHEAT (60#/AC)
BEAKED SEDGE (60#/AC)	BARLEY (80#/AC)
SMOOTH BROME (80#/AC)	OATS (60#/AC)

**D**  
3  
**EROSION CONTROL PLANTINGS**  
DISTURBED AREA REPLANTING

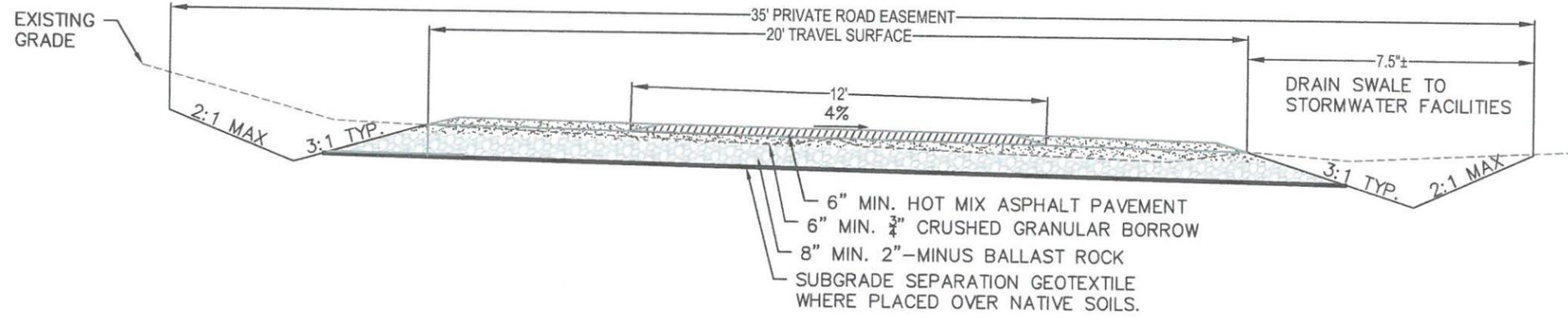


- NOTES:**
- INFILTRATION RATES SHALL EXCEED 1 IN/HR BUT NOT 3.0 IN/HR.
  - DO NOT COMPACT TOPSOIL LAYER.
  - SWALE SHALL BE HYDROSEEDING WITH APPROPRIATE GRASS MIXTURE (SEE BMP DETAILS OR DETAIL D/3).
  - KEEP GRASS WITHIN 3" TO 9" IN HEIGHT.
  - NATIVE LOAM OR CLAY SOILS CAN BE AMENDED WITH 2" OF COMPOST TILLED TO A DEPTH OF 8" AND ENTIRE BED SCARIFIED TO A DEPTH OF 12" BEFORE PLANTING.
  - OPTIONAL TREES AND SHRUBS TO BE SELECTED FROM PLANT LIST WITHIN BONNER COUNTY TITLE 12-APPENDIX B.
  - SUGGESTED SEED MIXES ARE SHOWN IN EROSION CONTROL PLANTING (DETAIL D/3).

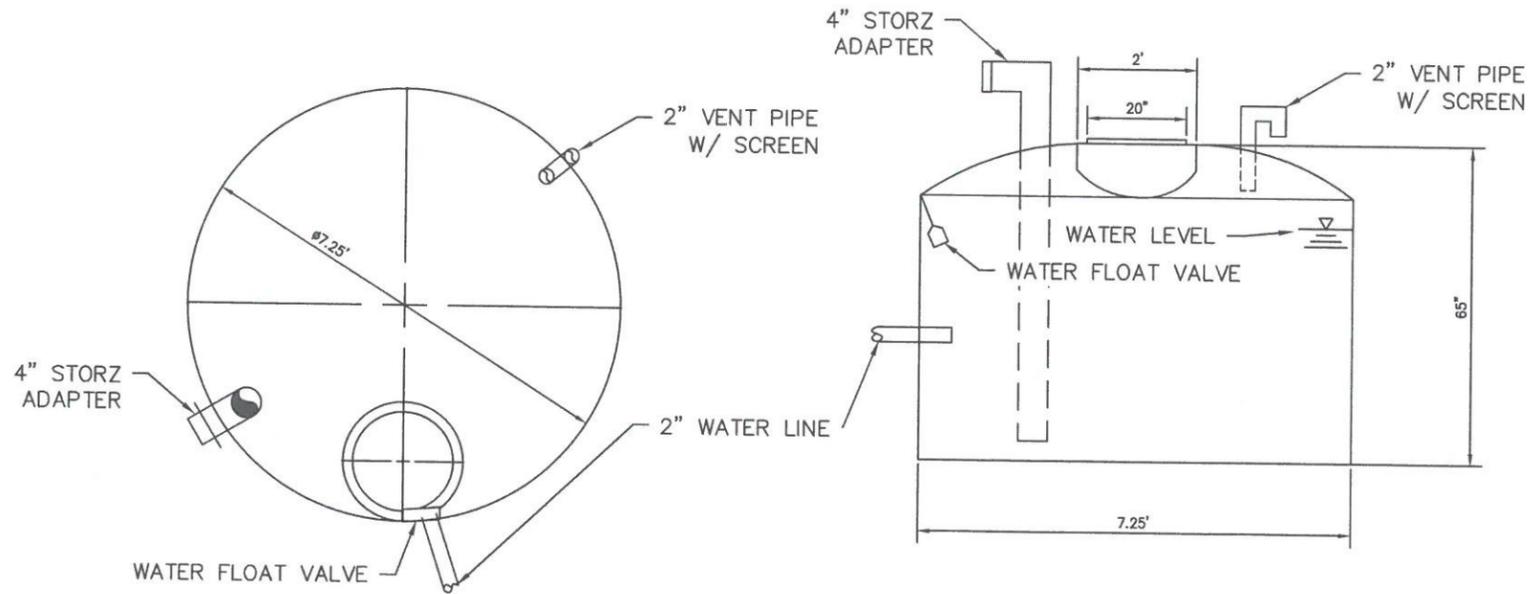
**C**  
3  
**GRASSY INFILTRATION AREA**  
N.T.S.

REVISION	DATE	DESCRIPTION
		RECEIVED DEC 18 2019
STORMWATER DETAILS		
OWNER KRAMER-MARIENAU		
PROJECT ORCHARD RIDGE ESTATES DOVER, IDAHO		
SHEET TITLE		
PROJECT NO: 1932		
DRAWN BY: DWL & ICE		
CHECKED BY: DWL		
SCALE: NTS (11"x17" ONLY)		
SHEET 4 OF 5		

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**A** TYPICAL DRIVEWAY SECTION  
4 N.T.S.

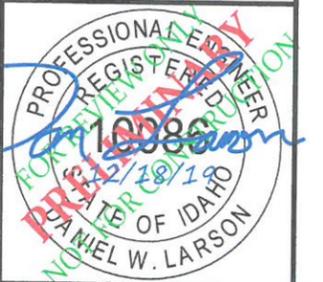


**B** TYPICAL 1550 GALLON VERTICAL WATER TANK  
4 N.T.S.

REVISION #	DATE	DESCRIPTION
		RECEIVED DEC 18 2019

**SHEET TITLE** MARIENAU DRIVE DETAILS  
**OWNER** KRAMER-MARIENAU  
**PROJECT** ORCHARD RIDGE ESTATES DOVER, IDAHO

**ENGINEERING**  
 414 CHURCH STREET, SUITE 205 F  
 SANDPOINT, IDAHO 83864  
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 info@7BEngineering.com



PROJECT NO: 1932  
 DRAWN BY: DWL  
 CHECKED BY: DWL  
 SCALE: NTS (11"x17" ONLY)