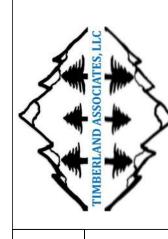


berland Associates, LLC 60 Difficult Dr daho City, Id 83631

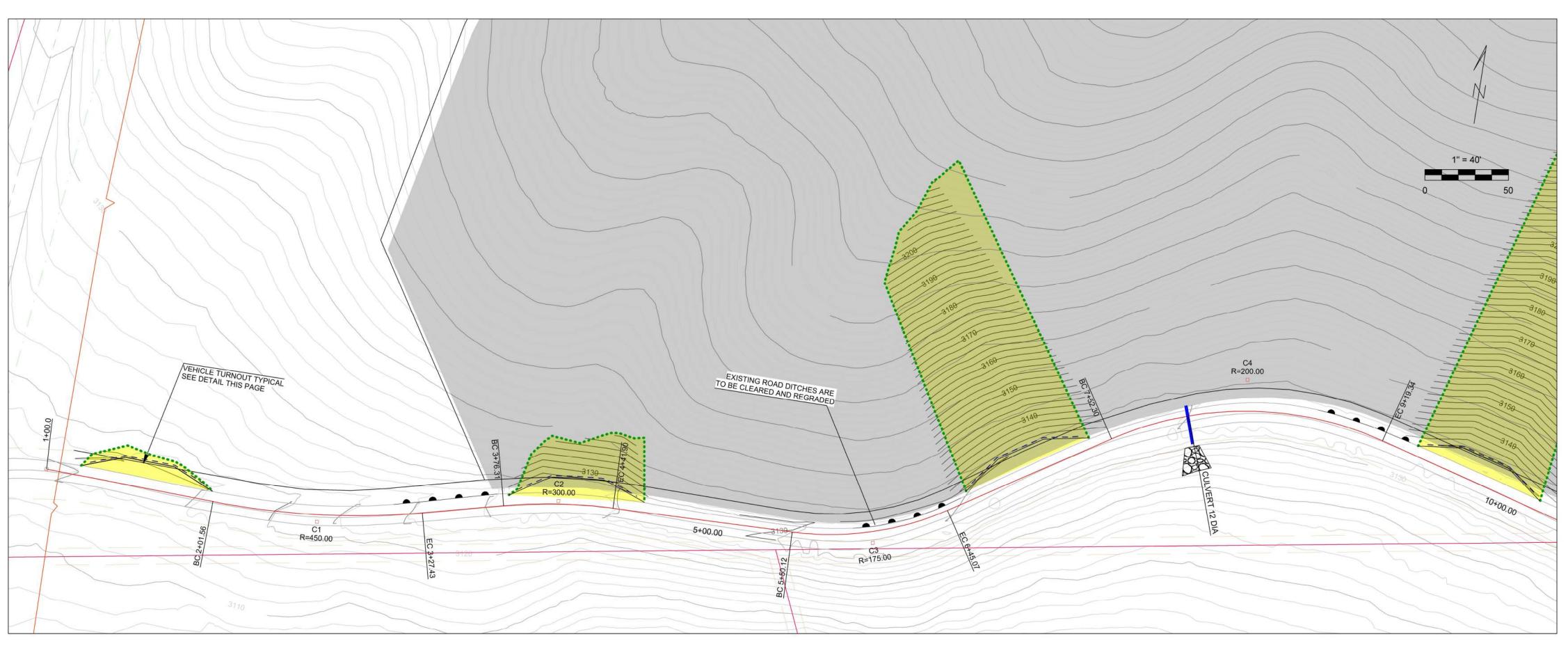


CONSTRUCTION PLANS
COVER SHEET
ADAMS MILLER PLACE SUBDIVISION
IN THE NW 1/4 OF SECTION 7, T.7N., R.3E., B.M
BOISE COUNTY, IDAHO

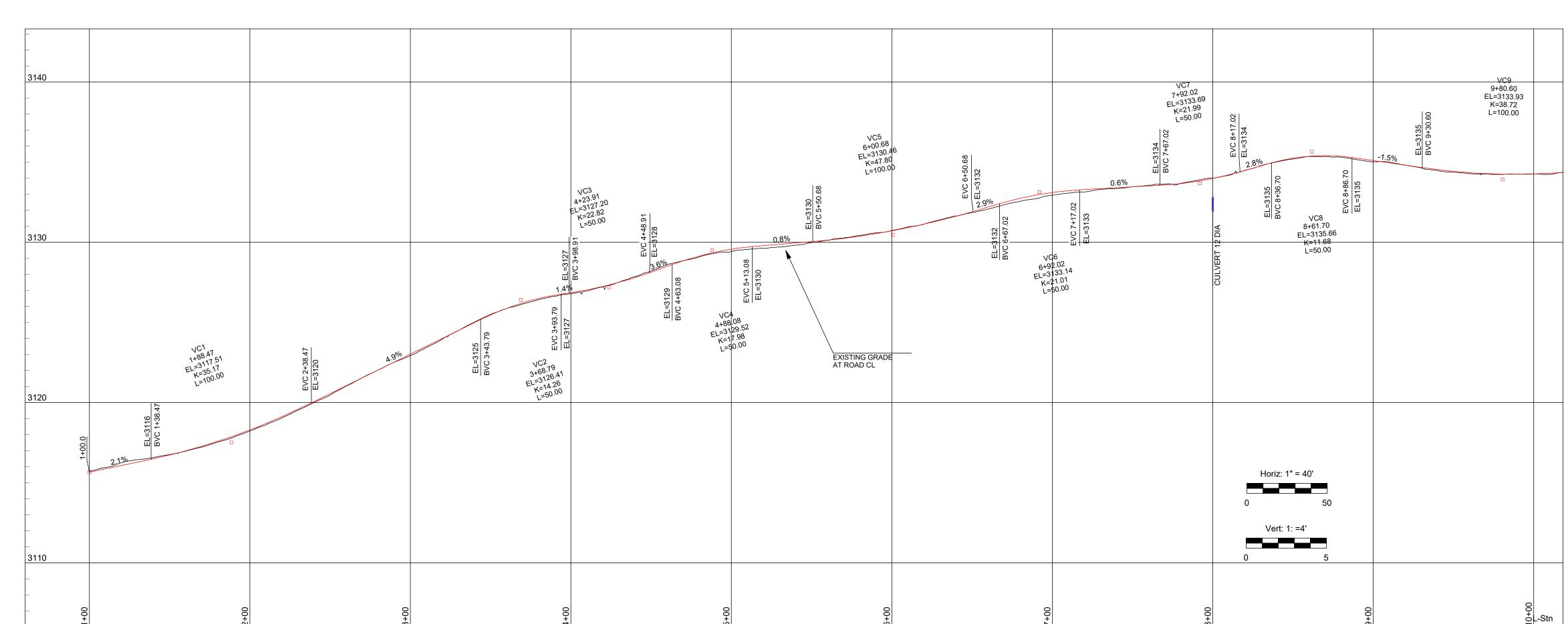
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Sheet C

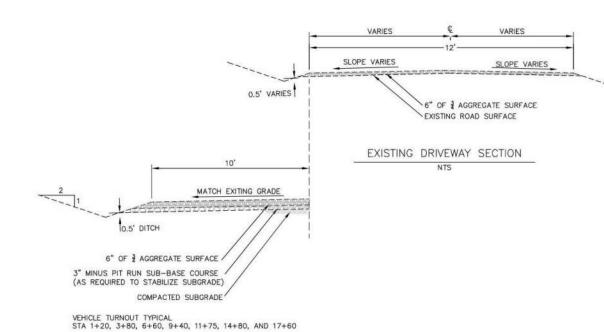


EXISTING DRIVEWAY

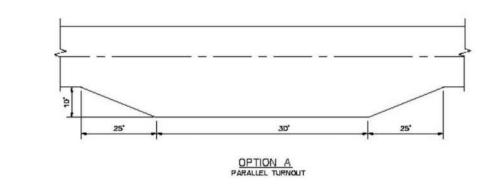


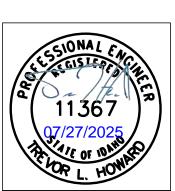
## **ROADWAY AND GRADING NOTES:**

- 1. SEE GENERAL NOTES SHEET 1.
- 2. SEE STORMWATER MANAGEMENT NOTES SHEET 5.
- 3. ALL PROPOSED ROADWAY/DRIVEWAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC)", "THE BOISE COUNTY UNIFIED LAND USE ORDINANCE 2024", AND THE IDEQ "CATALOG OF STORMWATER BEST MANAGEMENT PRACTICES FOR IDAHO CITIES AND COUNTIES".
- 4. CULVERTS SHOWN HEREON HAVE BEEN SIZED IN ACCORDANCE WITH BOISE COUNTY STANDARDS.
- 5. FILL SLOPES SHALL BE NO STEEPER THAN 2:1, AND CONTAINED WITHIN THE RIGHT-OF-WAY OR PERMANENT EASEMENTS.
- 6. CUT SLOPES SHALL BE NO STEEPER THAN 2:1, AND CONTAINED WITHIN THE RIGHT-OF-WAY OR PERMANENT EASEMENTS.
- 7. ALL ROADWAY AREAS SHALL BE STRIPPED TO REMOVE THE ENTIRE ROOT ZONE. STRIPPING DEPTHS ARE ESTIMATED BETWEEN 6" AND 12", BUT SHOULD BE VERIFIED IN THE FIELD DURING CONSTRUCTION BY A QUALIFIED PERSON(S). STRIP DEPTHS MAY BE ADJUSTED AS APPROPRIATE. STOCKPILE SUITABLE TOPSOIL MATERIAL FOR LATER USE AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- 8. ALL SUBGRADE SHALL BE PROOF ROLLED.
- 9. ALL FILL SHALL BE COMPACTED TO NOT LESS THAN NINETY-FIVE (95%) PER AASHTO T-99 PROCTOR DENSITY.
- 10. EXTENTS OF CUT SLOPES REQUIRED TO CONSTRUCT TURN OUTS MAY BE REDUCED WITH DESIGN AND CONSTRUCTION OF RETAINING WALLS. WALLS GREATER THAN 4 FT IN HEIGHT SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF IDAHO.

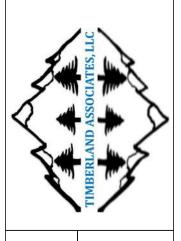


VEHICLE TURNOUT TYPICAL NTS





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CONSTRUCTION PLANS
DRIVEWAY PLAN, PROFILE, AND GRADING
ADAMS MILLER PLACE SUBDIVISION
IN THE NW 1/4 OF SECTION 7, T.7N., R.3E., B.M.
BOISE COUNTY, IDAHO

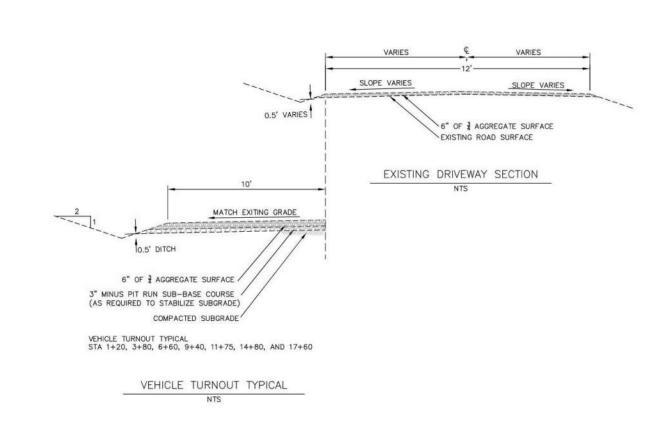
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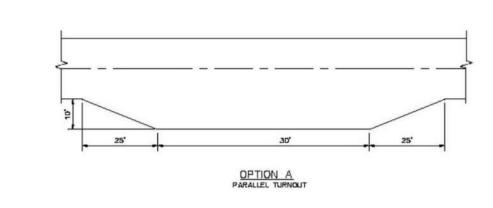
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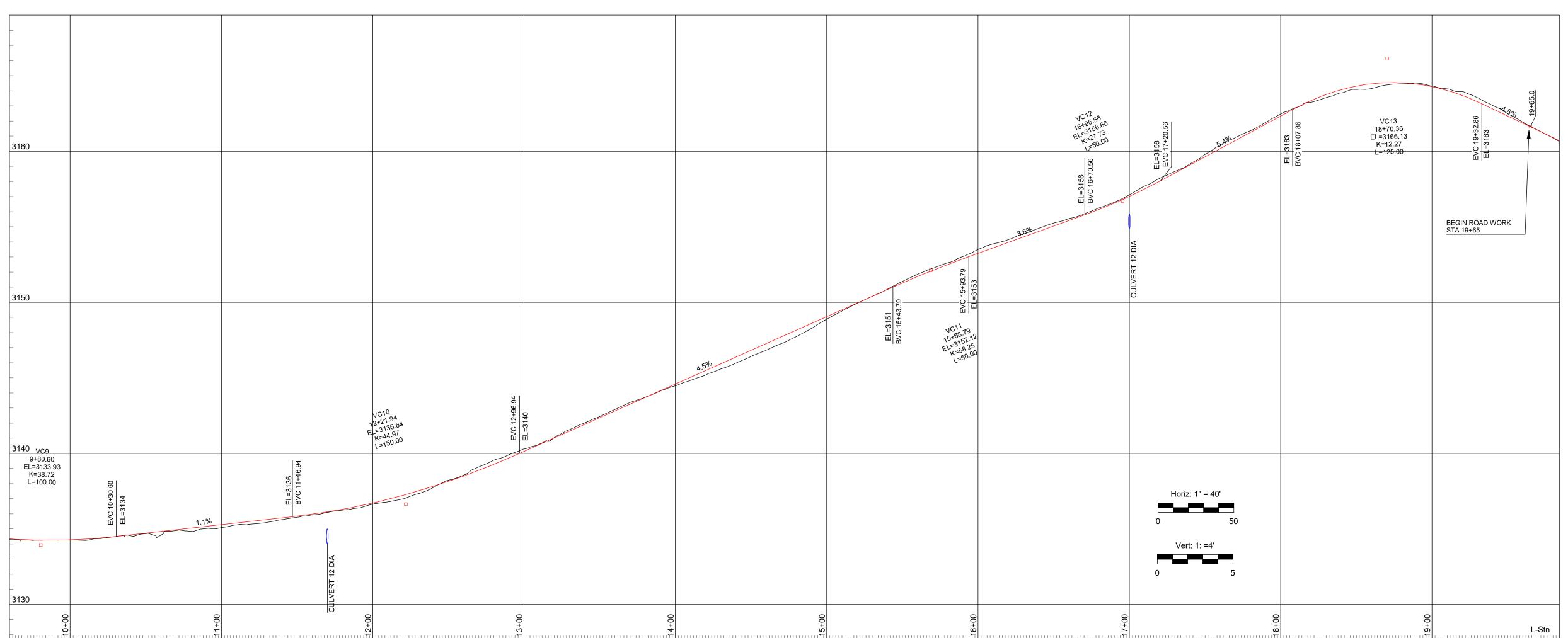
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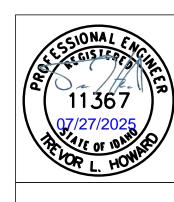
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Sheet C2 of









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CONSTRUCTION PLANS

Space Subdivision By Date

CONSTRUCTION PLANS

CONSTRUCTION PLANS

Driveway PLAN, PROFILE, AND GRADING

ADAMS MILLER PLACE SUBDIVISION

IN THE NW 1/4 OF SECTION 7, T.7N., R.3E., B.I

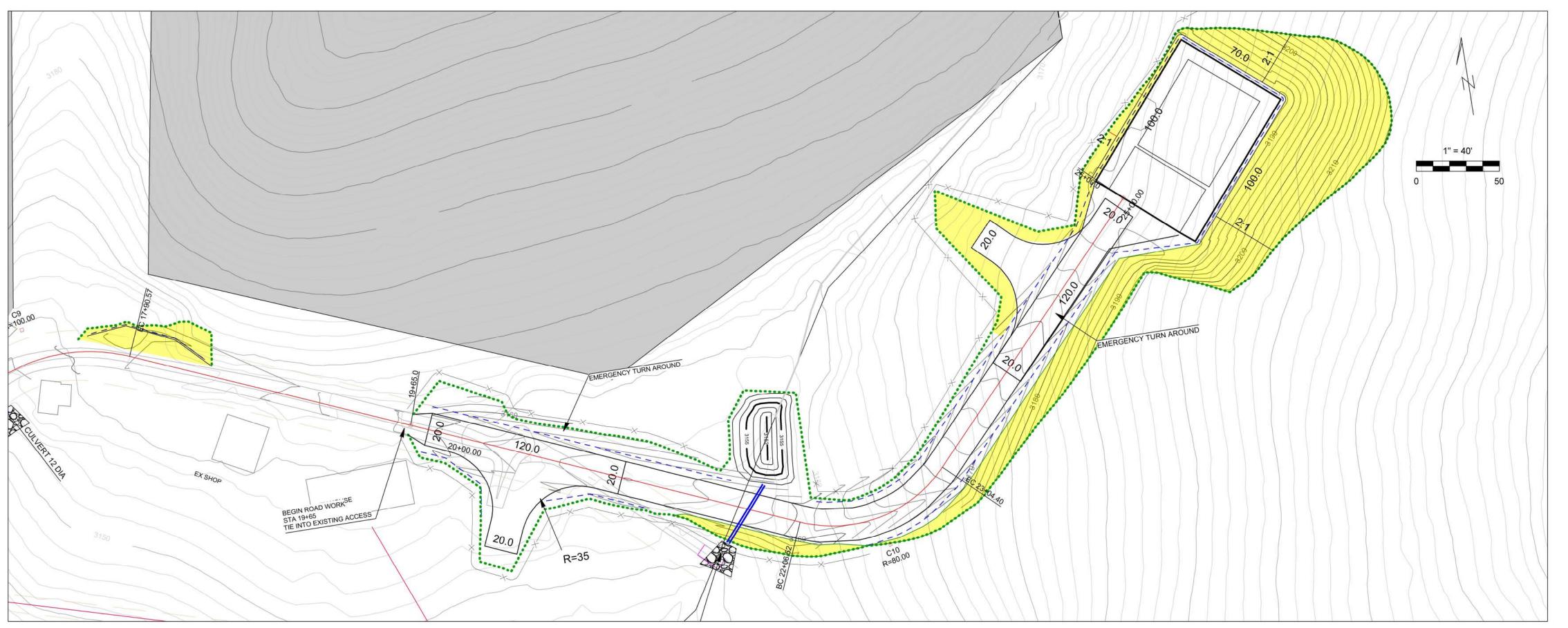
BOISE COUNTY, IDAHO

CONSTRUCTION PLANS DRIVEWAY PLAN, PROFILE, AND GRADING ADAMS MILLER PLACE SUBDIVISION IN THE NW 1/4 OF SECTION 7, T.7N., R.3E., BOISE COUNTY, IDAHO

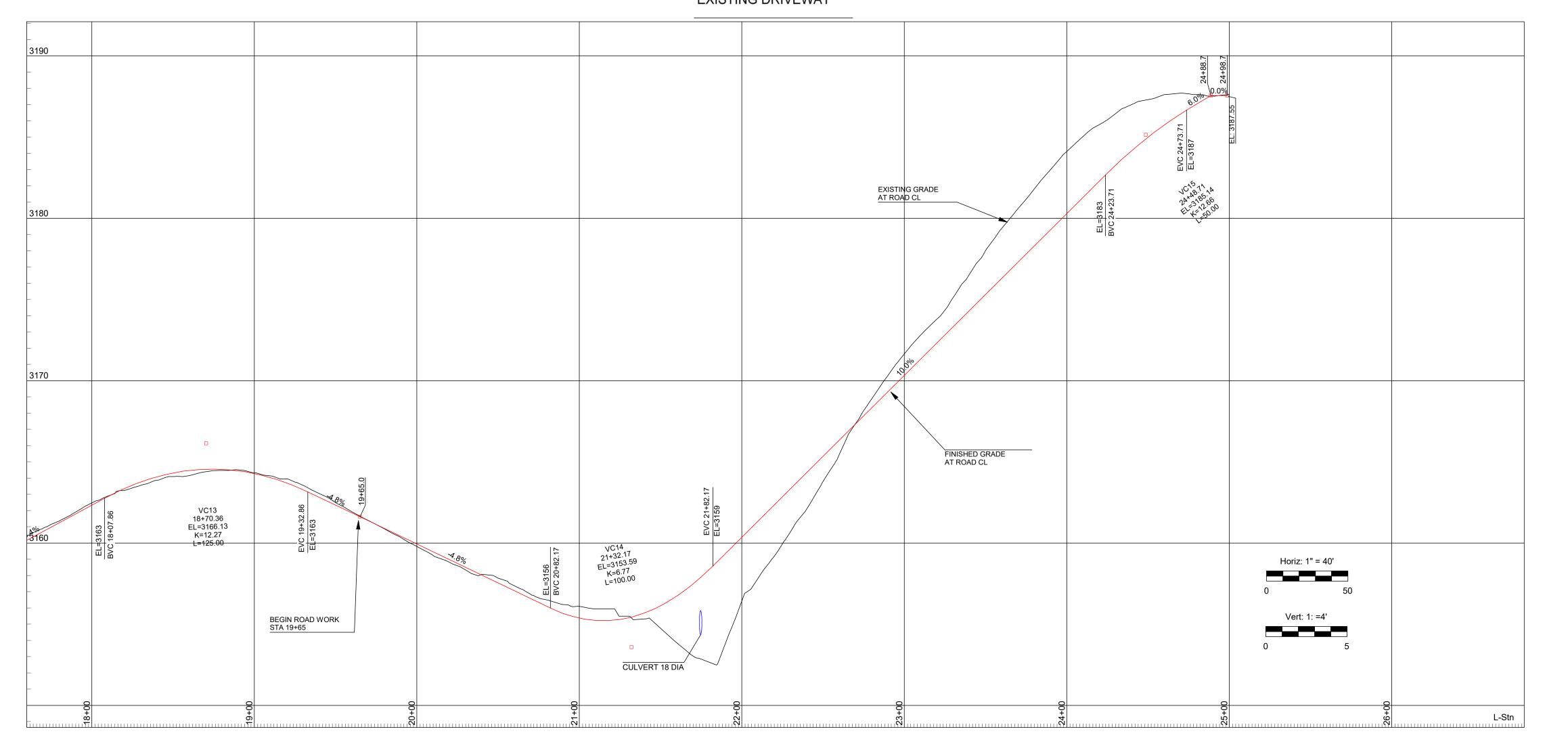
6" OF CRUSHED GRAVEL BASE
3" MINUS PIT RUN SUB-BASE COURSE (AS REQUIRED TO STABILIZE SUBGRADE) COMPACTED SUBGRADE

TYPICAL DRIVEWAY SECTION

NTS \* Driveway may be reduced to 12-ft width with pullout at Sta 22+40



# EXISTING DRIVEWAY



Date: 7/27/2025 Soil Type: Sandy loam clay from NRCS Soil Report

## Rational Method for Peak Volume and Peak Flow Rates

Pre Development: Development Area Surfaces			
Description	Area (SF.)	C Coefficient	
Natural (sagebrush with grass)	41,487	0.35	
Total	41,487	0.35	

Post Development: Development Area Surfaces

Description	Area (SF.)	C Coefficient
Proposed Roof and concrete	4,500	0.95
Gravel Roadway	12,989.7	0.75
Landscape (sandy soil steep)	23,997.0	0.35
Total	41,487	0.54

## Runoff Volume

i (10-hour, 100-yr storm)	1	inch/hr
T (1-hour)	1	hr
Cpost - Cpre	0.19	
V Runoff = C*i*T*A	658	ft <sup>3</sup>

## Stormwater Infiltration Basin Volume Calculations

Infiltration Basin A	Depth (ft)	Area (ft <sup>2</sup> )	Volume (ft <sup>3</sup> )
Top EL: 3155.0		850	
Bottom EL: 3152.0	3.0	0	837

Minor additions of turnouts to the existing road should not significantly increase existing runoff and were not considered in the above

0.21	sm
30	%
6	%
10.30	ft <sup>3</sup> /s
80	%
	0.21 30 6 10.30 80

			• II • • II • II
	Diameter (in)	12	18
	Percent Full (%)	80	80
	Slope (ft/ft)	0.6	0.6
	Mannings n	0.010	0.010
Computed	80 % Flowrate (ft3/s)	10.345	30.368
Results	Flow Depth (in)	9.000	13.450
	Velocity (ft/s)	16.372	21.453
	Wetted Perimeter (ft)	2.094	3.124
	Wetted Flow Area (ft <sup>2</sup> )	0.632	1.422
	Hydraulic Radius (ft)	0.302	0.0453
	Full Flow Rate	11.344	33.447

### BMPS:

BMP 3 PRESERVATION OF EXISTING VEGETATION - CLEARING LIMITS FOR ROADS, BUILDING SITES, AND DRIVEWAYS SHALL BE LIMITED TO THE EXTENTS OF THE CUT AND FILL SLOPES. BUILDING SITES SHALL BE LOCATED TO MINIMIZE CLEARING OF THE FOREST

BMP 7 DUST CONTROL - CONSTRUCTION SHALL MINIMIZE THE AMOUNT OF EXPOSED SOILS. SEEDING SHALL BE PHASED AS WORK PROGRESSES. WATERING, SURFACE ROUGHENING, AND PLACEMENT OF GRAVEL SHALL BE CONDUCTED TO MINIMIZE DUST.

BMP 15 MULCHING - APPLY HAY OR DISPLACED SOD AS A MULCH TO AID SEEDING. CONTROL EROSION ON SLOPES STEEPER THAN 2:1, AND REDUCE DUST.

BMP 18 MATTING (EROSION CONTROL BLANKETS) - LAY MATTING FOR SOIL STABILIZATION ON SMOOTH SLOPES AFTER PREPARATION AND SEEDING. SECURE TOP OF MATTING ON A 8-INCH-DEEP TRENCH, OVERLAP SIDES OF ROLLS AT LEAST 4 INCHES, EXTEND EDGES BEYOND POETECTED AREA BY AT LEAST 1 FOOT ON THE SIDES AND 3 FEET ON THE TOP AND BOTTOM. HEAVY GRADE WIRE STAPLES SHOULD BE PLACED 3 FEET APART AND DRIVEN PERPENDICULARLY INTO THE SLOPE FACE.

BPM 21 SEEDING- REVEGETATE AND STABILIZE DISTURBED AREAS WITH AN APPROVED NATIVE GRASS SEED MIXTURE AT THE RECOMMENDED APPLICATION RATE

BMP 25 SLOPE ROUGHENING - SLOPES SHALL BE ROUGHENED BY DRIVING A CRAWLER TRACTOR OVER THE CUT AND FILL SLOPES PERPENDICULAR TO THE SLOPES.

BMP 30 RIP RAP SLOPE AND OUTLET PROTECTION - PLACE AT THE UPGRADIENT SLOPES AT WETLAND CROSSINGS AND CULVERT INLETS AND OUTLETS SHALL BE PROTECTED WITH A LAYER OF PLACED ROCK.

BMP 31 CHECK DAM - CHECK DAMS SHALL BE PLACED PERPENDICULAR TO THE FLOW OF WATER AND FORM A TRIANGLE WHEN VIEWED FROM THE SIDE. THE MAXIMUM SPACING BETWEEN THE DAMS SHALL BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.

BMP 35 FIBER ROLLS - FIBER ROLLS WILL BE PLACED AT THE TOE AND OR THE FACE OF SLOPES TO INTERCEPT RUNOFF, REDUCE FLOW VELOCITY, RELEASE THE RUNOFF AS SHEET FLOW, AND REMOVE SEDIMENT FROM THE RUNOFF.

BMP 36 SILT FENCE - SILT FENCE WILL BE PLACED AT THE PERIMETER OF DISTURBED AREAS AND/OR ALONG THE TOE OF FILL SLOPES TO REDUCE THE AMOUNT OF SEDIMENT LEAVING THE SITE.

## STORMWATER

1. SEE ROADWAY AND GRADING NOTES ON SHEET 3.

2. NO GRADING WORK SHALL OCCUR UNTIL THE OWNER HAS FILED A NOTICE OF INTENT FOR CONSTRUCTION ACTIVITY WITH THE IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY (IDEQ) WHEN REQUIRED BY IDEQ.

3. THE EXISTING SITE INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF ANY PROJECT CONSTRUCTION.

4. REFER TO THE "STATE OF IDAHO, CATALOG OF STORMWATER BEST MANAGEMENT PRACTICES FOR IDAHO CITIES AND COUNTIES" FOR FURTHER DETAILS ON BMP INSTALLATION.

5. CONSTRUCTION SHALL BE SCHEDULED DURING TIMES OF LOW EROSION; POTENTIAL SOIL STABILIZATION MEASURES SHALL BE IMPLEMENTED AS CONSTRUCTION PROGRESSES.

6. DELINEATED WETLANDS, IF ANY, SHALL BE PROTECTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL JURISDICTIONS. NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE WITHIN WETLANDS.

7. CULVERTS SHALL BE PLACED UNDER PROPOSED ROADWAYS AT MAJOR AND MINOR DRAINAGE CROSSINGS AND ELSEWHERE AS DEEMED APPROPRIATE BY THE DESIGN ENGINEER TO ADEQUATELY MANAGE STORM WATER. ALL CULVERT OUTLESTS SHALL BE RIP RAP ARMORED

8. ALL EROSION AND SEDIMENT CONTROL BMPS SHALL BE INSTALLED PRIOR TO THE START OF ANY PROJECT CONSTRUCTION OR EARTH DISTURBING ACTIVITY AND REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.

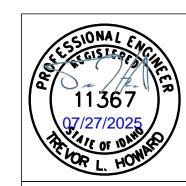
9. THE IMPLEMENTATION OF THESE EROSION AND SEDIMENT CONTROL MEASURES INCLUDE INSTALLATION, MAINTENANCE, REPLACEMENT, AND THE UPGRADING OF THIS PLAN IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND APPROVED BY THE OWNER. THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE MEASURES AFTER THE PROJECT IS APPROVED.

10. WORK ACTIVITIES SHALL TAKE PLACE WITHIN THE CLEARING LIMITS AS SHOWN ON THE PLAN. CONTRACTOR SHALL PRESERVE NATURAL VEGETATION OUTSIDE OF THE CLEARING LIMITS.

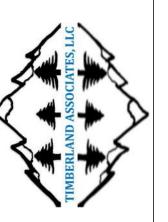
11. ALL CUT AND FILL SLOPES WHEN FINISHED SHALL BE RE-SEEDED WITH AN APPROVED NATIVE GRASS SEED MIXTURE AT THE RECOMMENDED APPLICATION RATE. EROSION CONTROL BLANKETS ARE REQUIRED ON 2:1 SLOPES.

12. WATTLES MAY BE USED IN PLACE OF SILT FENCE WERE DEEMED APPROPRIATE.

13. ALL SITE GRADING ADJACENT TO THE NEW RESIDENCES SHALL BE SLOPED TO DRAIN AWAY FROM THE BUILDINGS AT A MINIMUM OF 5% FOR TEN (10) FEET. BUILDINGS SHALL BE GRADED TO DRAIN TO THE DRIVEWAY; DITCHES SHALL BE ADJUSTED AS NEEDED TO MAINTAIN FLOW.



rland Associates, 60 Difficult Dr aho City, Id 83631 208-559-2663



1" = 80"

CONSTRUCTION LPLA ATER MANAGEMENT AND ERO ADAMS MILLER PLACE SUB HE NW 1/4 OF SECTION 7, T.: BOISE COUNTY, IDA

