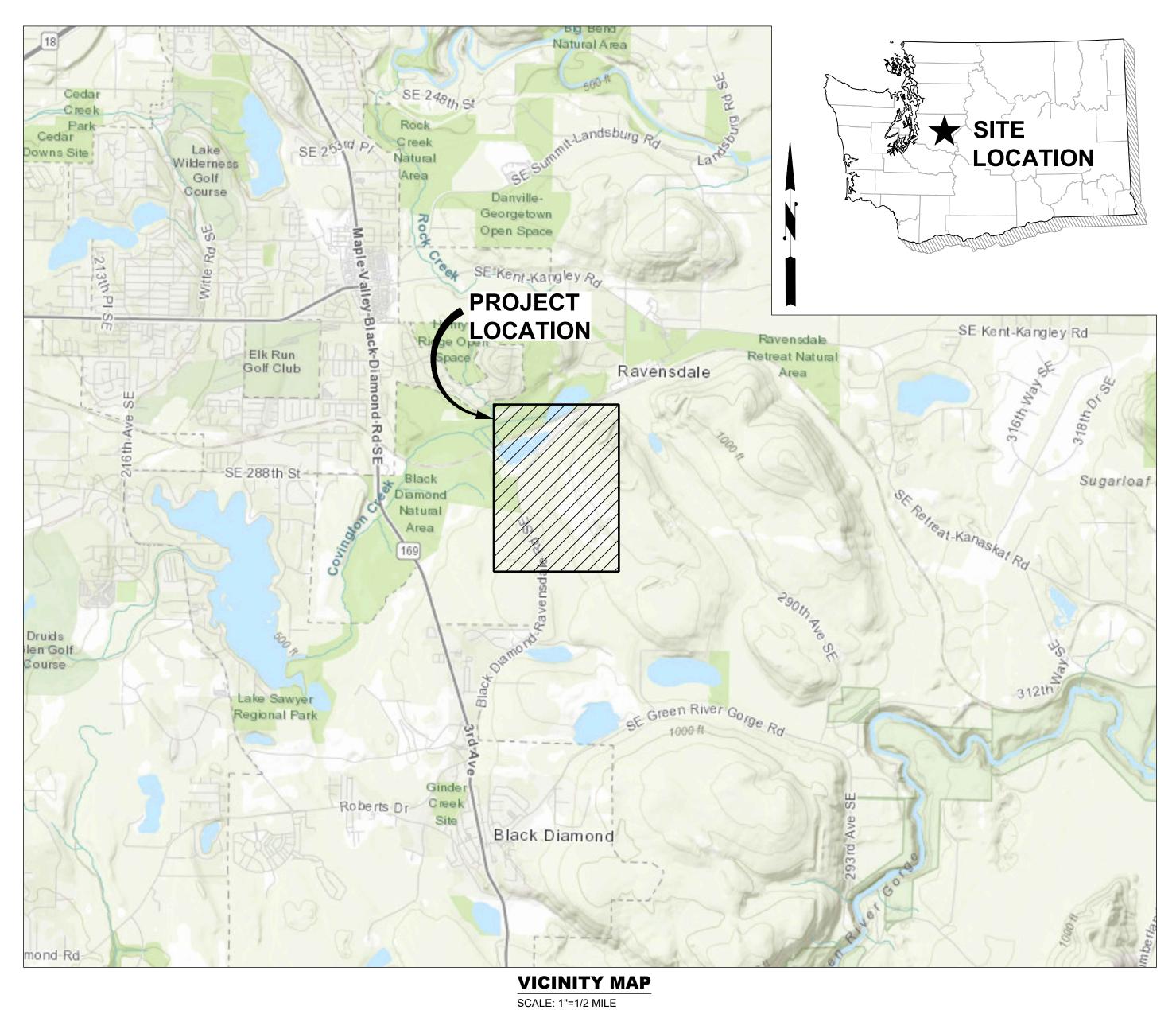
# RESERVE SILICA RAVENSDALE FACILITY GRADING PERMIT NO. GRDE15-0011

KING COUNTY, WASHINGTON



# **OWNER:**

RESERVE SILICA CORPORATION 28131 RAVENSDALE - BLACK DIAMOND RD RAVENSDALE, WA, 98051 CONTACT:

# **ENGINEER:**

HERRERA ENVIRONMENTAL CONSULTANTS EMAIL: oreese@herrerainc.com CONTACT: OWEN REESE

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1"=1/2 MILE	O. REESE

RESERVE SILICA RAVENSDALE FACILITY GRADING PERMIT NO. GRDE15-0011

FEBRUARY 2025 PROJECT NO: 24-08370-000 G0.01 SHEET NO:

**COVER SHEET** 

NA NO OC **PVC** RD REFERENCE

RIGHT SOUTH, SLOPE SD STORM DRAIN **SPEC SPECIFICATION** ST STREET STA STATION STD STANDARD TEC TEMPORARY EROSION CONTROL

**TESC** TEMPORARY EROSION AND SEDIMENT CONTROL

TYP **TYPICAL** WEST, WATER W

WATER SURFACE ELEVATION **WSE** 

#### **LEGEND - EXISTING**

PARCEL LINE —— APPROX BPA EASEMENT - - - FILL AREA BOUNDARY TIRE WASH

# **LEGEND - PROPOSED**

OCCOCCOCCOCCOCCO BRUSH BARRIER

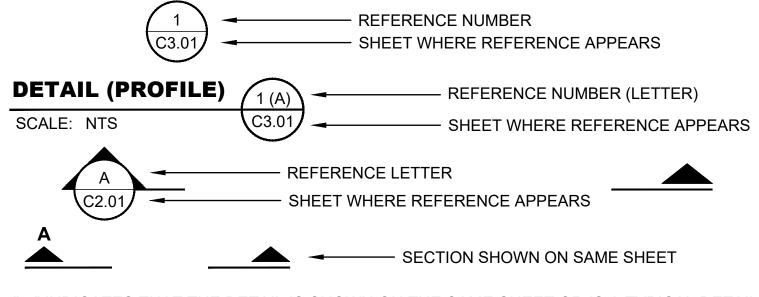
-- CG---- CLEAR AND GRUB LIMITS ─────────── ESC DITCH PER KCSWDM D2.1.6.4  $\longrightarrow$  DITCH — SF—— SF—— SF—— SILT FENCE ---- WATER SURFACE ELEVATION **ACCESS RAMP** CONSTRUCTION STAGING AREA MAINTENANCE ROAD **ROCK PROTECTION** SEDIMENT POND **CONSTRUCTION ACCESS** 

### **CONSTRUCTION SEQUENCE**

- 1. PRE-CONSTRUCTION MEETING.
- 2. STAKE CLEARING LIMITS
- INSTALL CATCH BASIN PROTECTION AND FLOW CONTROL BMP AREA PROTECTION AS REQUIRED.
- 4. INSTALL PERIMETER PROTECTION (E.G., BRUSH BARRIER, ETC.).
- 5. CONSTRUCT AREA 5 AND 6 PONDS (WILL FUNCTION AS SEDIMENT PONDS DURING CONSTRUCTION).
- CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT. CONSTRUCT SWPPS CONTROLS IN ANTICIPATION OF SCHEDULED CONSTRUCTION ACTIVITY.
- 7. MAINTAIN EROSION CONTROL AND SWPPS MEASURES IN ACCORDANCE WITH KING COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- RELOCATE EROSION CONTROL AND SWPPS MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL, AND POLLUTANT PROTECTION IS ALWAYS IN ACCORDANCE WITH THE KING COUNTY CONSTRUCTION STORMWATER POLLUTION PREVENTION STANDARDS.
- 9. COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, OR EQUIVALENT.
- STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN DAYS.
- 11. SEED ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- 12. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BMPS REMOVED IF APPROPRIATE.

## **GENERAL NOTES**

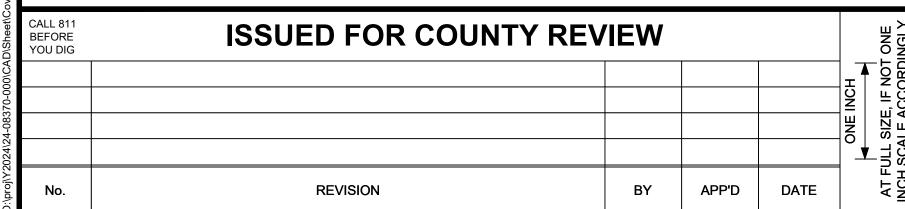
- ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH PERMIT CONDITIONS, THE KING COUNTY CODE (KCC), THE KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS (KCRDCS), WASHINGTON STATE DOT (WSDOT) STANDARD SPECIFICATIONS AND THE CONDITIONS OF PRELIMINARY APPROVAL. IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL CIVIL ENGINEER TO CORRECT ANY ERROR, OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS. ALL CORRECTIONS SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO KING COUNTY.
- THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THE KING COUNTY DEPARTMENT OF LOCAL SERVICES, PERMITTING DIVISION (DLS-PERMITTING) ENGINEERING REVIEW CHECKLIST. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE DLS-PERMITTING PLAN REVIEWER. ANY VARIANCE FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY KING COUNTY PRIOR TO CONSTRUCTION
- APPROVAL OF THIS ROAD, GRADING, PARKING AND DRAINAGE PLAN DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION (E.G. DOMESTIC WATER CONVEYANCE, SEWER CONVEYANCE, GAS, ELECTRICAL, ETC.)
- BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY. A PRECONSTRUCTION MEETING MUST BE HELD BETWEEN THE DLS-PERMITTING'S DEVELOPMENT INSPECTOR, THE APPLICANT, AND THE APPLICANT'S CONSTRUCTION REPRESENTATIVE.
- 5. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- GRADING ACTIVITIES (SITE ALTERATION) ARE LIMITED TO THE HOURS OF 7 A.M. TO 7 P.M. MONDAY THROUGH SATURDAY AND 10 A.M. TO 5 P.M. ON SUNDAY, UNLESS OTHERWISE APPROVED WITH A WRITTEN DECISION BY THE REVIEWING AGENCY.
- IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING OFF-SITE WORK. EASEMENTS REQUIRE REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- FRANCHISED UTILITIES OR OTHER INSTALLATIONS THAT ARE NOT SHOWN ON THESE APPROVED PLANS SHALL NOT BE CONSTRUCTED UNLESS AN APPROVED SET OF PLANS THAT MEET ALL REQUIREMENTS OF KCRDCS CHAPTER 8 ARE SUBMITTED TO THE DLS-PERMITTING'S DEVELOPMENT INSPECTOR THREE DAYS PRIOR TO CONSTRUCTION
- 9. DATUM SHALL BE NAVD88 UNLESS OTHERWISE APPROVED BY DLS-PERMITTING.
- 10. DEWATERING SYSTEM (UNDERDRAIN) CONSTRUCTION SHALL BE WITHIN A RIGHT-OF-WAY OR APPROPRIATE DRAINAGE EASEMENT. BUT NOT UNDERNEATH THE ROADWAY SECTION. ALL UNDERDRAIN SYSTEMS MUST BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS.
- 11. ALL UTILITY TRENCHES AND ROADWAY SUBGRADE SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT MAXIMUM DENSITY PER WSDOT STANDARD SPECIFICATIONS 2-03.3(14)D, METHOD C.
- 12. OPEN CUTTING OF EXISTING ROADWAYS FOR NON-FRANCHISED UTILITY OR STORM WORK IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY DLS-PERMITTING AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH KCRDCS.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT. FLAGGERS. AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE. HEALTH. AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL APPLY. WORK IN RIGHT-OF-WAY IS NOT AUTHORIZED UNTIL A TRAFFIC CONTROL PLAN IS APPROVED BY KING COUNTY.



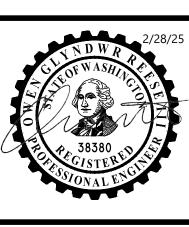
" - " INDICATES THAT THE DETAIL IS SHOWN ON THE SAME SHEET OR IS A TYPICAL DETAIL

"VAR" SPECIFIES THAT DETAIL/SECTION WAS TAKEN FROM VARIOUS DRAWINGS

# **DETAIL/SECTION REFERENCING**







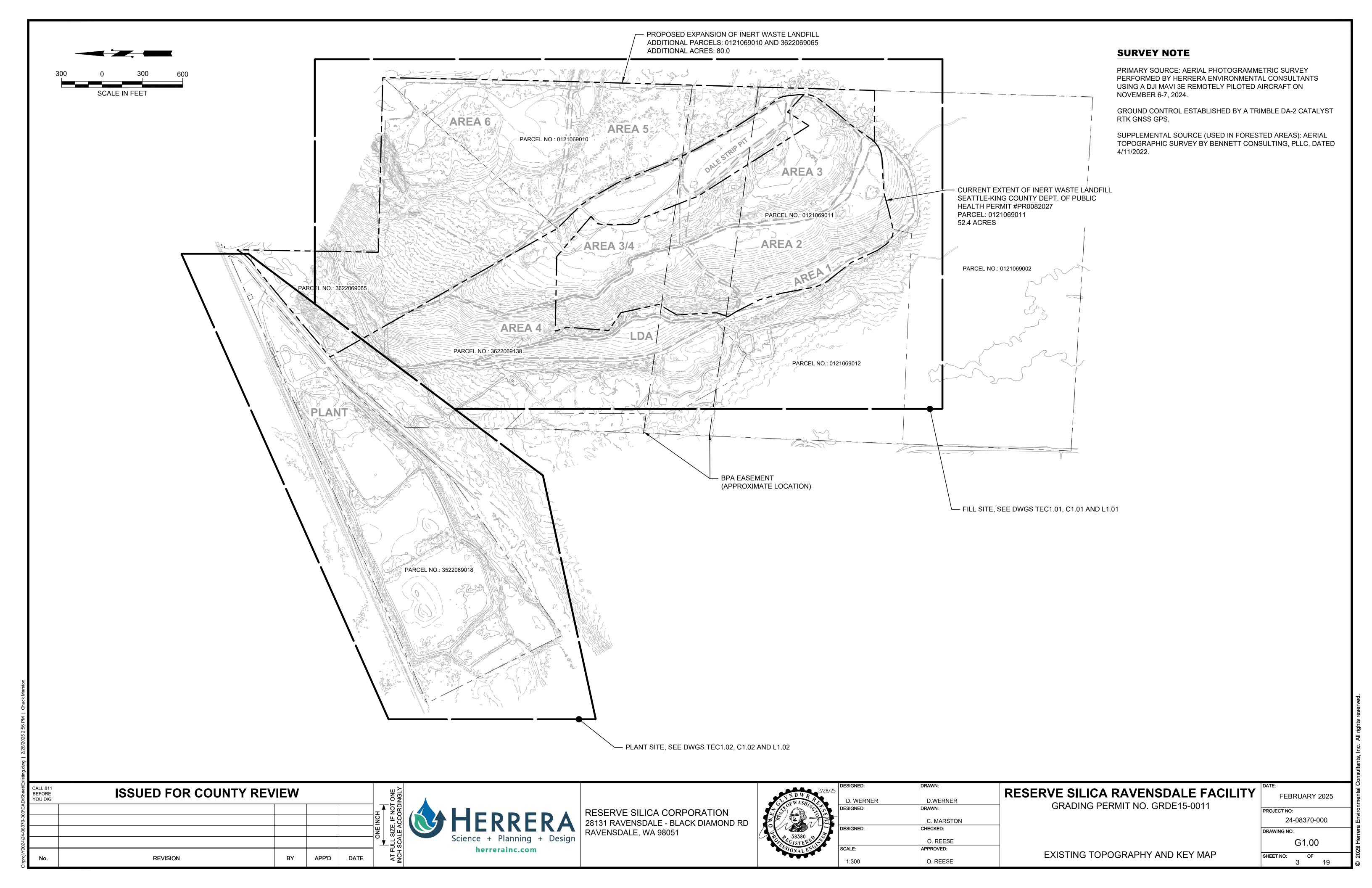
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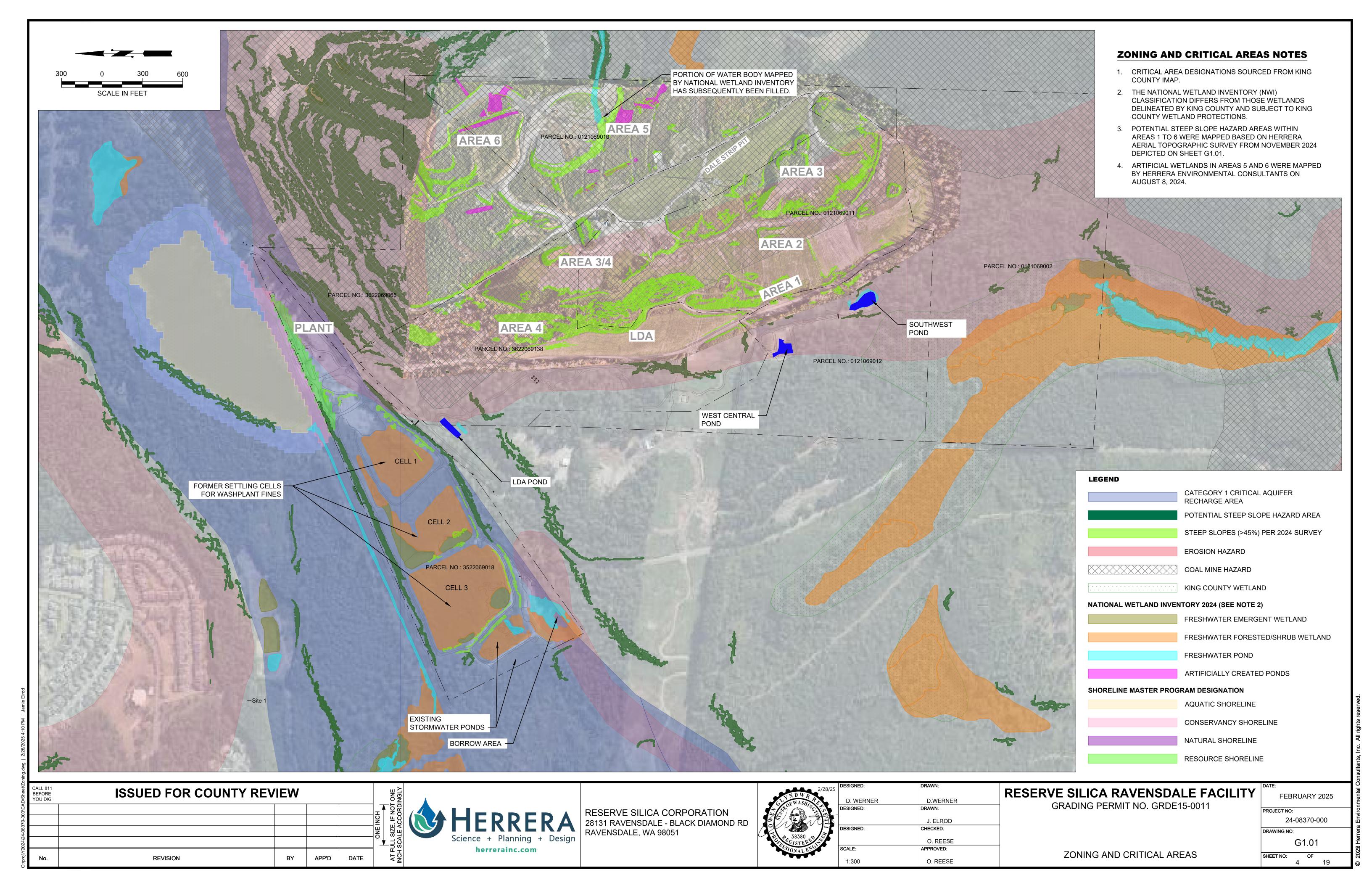
# RESERVE SILICA RAVENSDALE FACILITY

GRADING PERMIT NO. GRDE15-0011

FEBRUARY 2025 PROJECT NO: 24-08370-000 DRAWING NO: G0.02 SHEET NO:

GENERAL NOTES, LEGEND AND ABBREVIATIONS





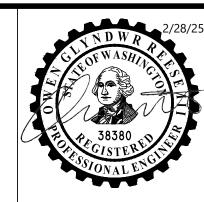
# **EROSION AND SEDIMENT CONTROL (ESC) NOTES**

- 1. THE ESC FACILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND DO NOT CONSTITUTE APPROVAL OF THE CONTRACTOR'S TEMPORARY ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES).
- 2. THE IMPLEMENTATION OF THE ESC FACILITIES SHOWN ON THESE PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR'S CESCL AND ESC SUPERVISOR UNTIL ALL VEGETATION IS ESTABLISHED AND FINAL COMPLETION IS ACHIEVED AS DETERMINED BY THE PROJECT REPRESENTATIVE.
- 3. THE ESC FACILITIES SHOWN ON THESE PLANS MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO MINIMIZE THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES.
- 4. THE ESC FACILITIES SHOWN ON THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING THE CONTRACT PERIOD, THESE ESC FACILITIES MUST BE UPGRADED AS NEEDED OR REQUESTED BY THE PROJECT REPRESENTATIVE FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES).
- 5. EROSION CONTROL MEASURES IDENTIFIED REPRESENT THOSE SUGGESTED FOR INITIAL SITE CONDITIONS. THE CONTRACTOR MUST MODIFY AND UPDATE AS NECESSARY DURING THE COURSE OF THE PROJECT TO MEET CONTRACT REQUIREMENTS.
- 6. MAINTAIN EROSION CONTROL FACILITIES UNTIL REMOVAL OR RELOCATION IS REQUIRED DURING THE WORK.
- 7. THE ESC FACILITIES MUST BE INSPECTED BY THE CONTRACTOR'S ESC SUPERVISOR DAILY AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. THE CONTRACTOR'S ESC SUPERVISOR AND THE PROJECT REPRESENTATIVE'S CESCL MUST INSPECT ESC FACILITIES TOGETHER ONCE A WEEK AND AFTER EVENTS OF 0.1 INCH OR MORE. PROJECT REPRESENTATIVE'S CESCL WILL KEEP WRITTEN RECORDS OF THOSE INSPECTIONS.
- ANY AREAS OF EXPOSED SOILS, INCLUDING EXCAVATIONS AND STOCKPILES, THAT WILL NOT BE DISTURBED OVER A TWO-DAY PERIOD DURING THE WET SEASON OR OVER A SEVEN-DAY PERIOD DURING THE DRY SEASON MUST BE IMMEDIATELY STABILIZED WITH APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING).
- 9. AT NO TIME MUST MORE THAN SIX (6) INCHES OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN PROJECT RELATED DITCHES, INLETS, CATCH BASINS, STRUCTURES, AND ENERGY DISSIPATOR OR CONVEYANCE PIPES. ALL CONVEYANCE LINES MUST BE CLEANED AT THE BEGINNING OF THE CONTRACT AND PRIOR TO FINAL CONSTRUCTION CLOSEOUT. THE CLEANING OPERATION MUST NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM. VERIFICATION OF CLEAN CONVEYANCE LINES MUST BE PROVIDED TO THE PROJECT REPRESENTATIVE WITHIN 10 DAYS AFTER MOBILIZATION AND WITHIN 10 DAYS PRIOR TO FINAL COMPLETION.
- 10. STABILIZED CONSTRUCTION ENTRANCES AND ROADS MUST BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AT ALL POINTS OF INGRESS/EGRESS FROM NON-PAVED AREAS OF WORK AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- 11. ANY PERMANENT FLOW CONTROL FACILITY USED AS A TEMPORARY SETTLING BASIN MUST BE MODIFIED WITH THE NECESSARY ESC MEASURES AND MUST PROVIDE ADEQUATE STORAGE CAPACITY AND MUST BE THOROUGHLY CLEANED OF SEDIMENT WHEN TEMPORARY USE IS DISCONTINUED.
- 12. WHEN STRAW MULCH IS USED FOR TEMPORARY EROSION CONTROL, PREVENT STRAW MULCH FROM ENTERING CONVEYANCE AND DETENTION FACILITIES.
- 13. TEN (10) DAYS PRIOR TO THE BEGINNING OF THE WET SEASON (OCTOBER 1), ALL DISTURBED AREAS SHALL BE REVIEWED BY THE PROJECT REPRESENTATIVE TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE (1) WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCHED MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE PROJECT REPRESENTATIVE. THE PROJECT REPRESENTATIVE MAY REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATER, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES AT NO ADDITIONAL COST TO KING COUNTY.
- 14. MAINTAIN ALL EXISTING STORM DRAINS, CHANNELS, CULVERTS, AND STRUCTURES THAT RECEIVE FLOW UNTIL WORK IS COMPLETE. WHENEVER EXISTING STORM DRAINS, CHANNELS, CULVERTS, OR STRUCTURES ARE DISTURBED; PROVIDE SUITABLE MEANS FOR DIVERTING AND MAINTAINING ALL FLOWS AT THE CONTRACTOR'S EXPENSE.
- 15. CONTRACTOR SHALL MONITOR RUNOFF, AT THE LOCATIONS IDENTIFIED, IN ACCORDANCE WITH THE CONSTRUCTION GENERAL STORMWATER PERMIT.

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RESERVE SILICA CORPORATION 28131 RAVENSDALE - BLACK DIAMOND RD RAVENSDALE, WA 98051



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RESERVE SILICA RAVENSDALE FACILITY

GRADING PERMIT NO. GRDE15-0011

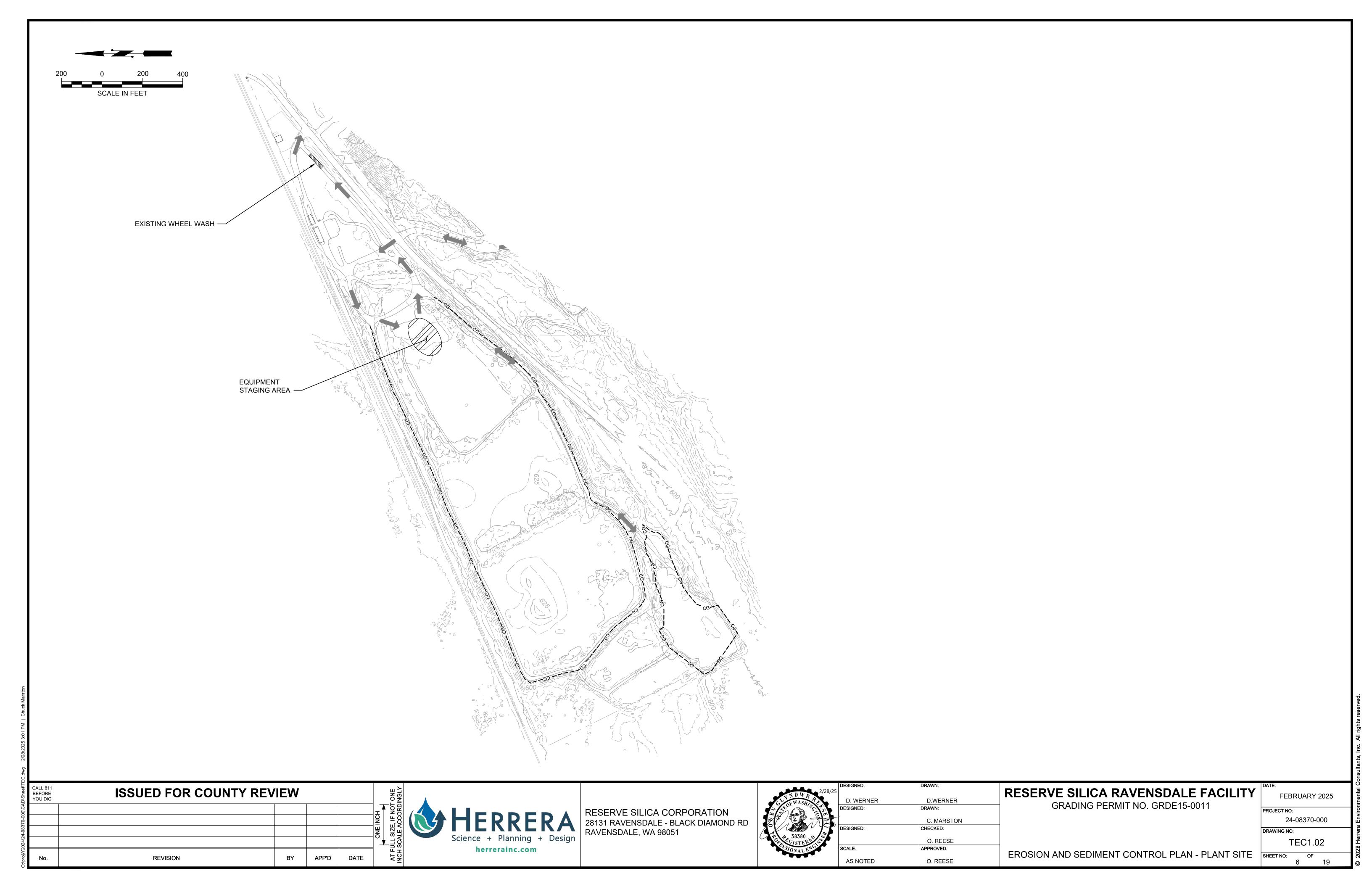
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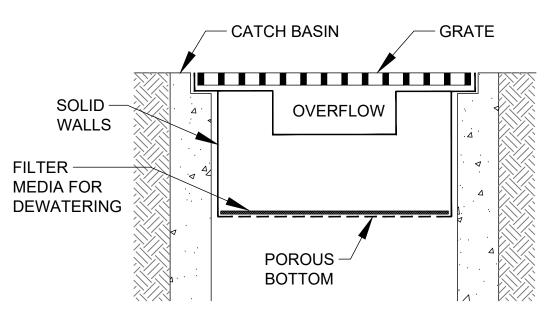
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FEBRUARY 2025

EROSION AND SEDIMENT CONTROL PLAN - FILL SITE

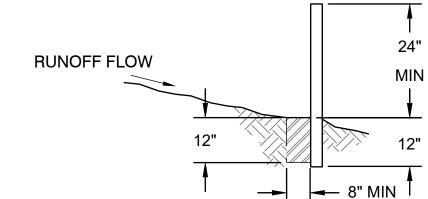
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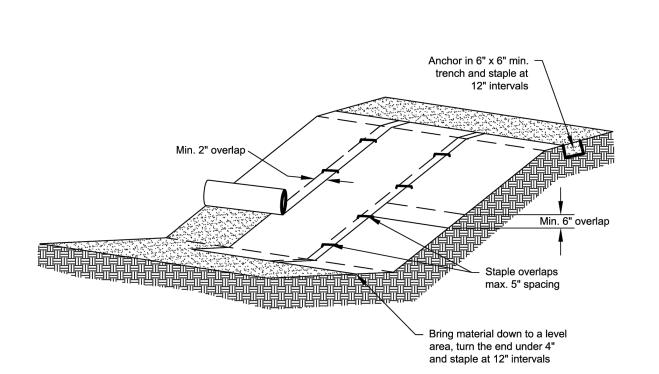
**NOTE:** THIS DETAIL IS ONLY SCHEMATIC. ANY INSERT IS ALLOWED THAT HAS:

- A MIN. 0.5 C.F. OF STORAGE, • THE MEANS TO DEWATER THE
- STORED SEDIMENT, AN OVERFLOW, AND • CAN BE EASILY MAINTAINED.





**DETAIL - GUIDE POST INSTALLATION** SCALE: NTS

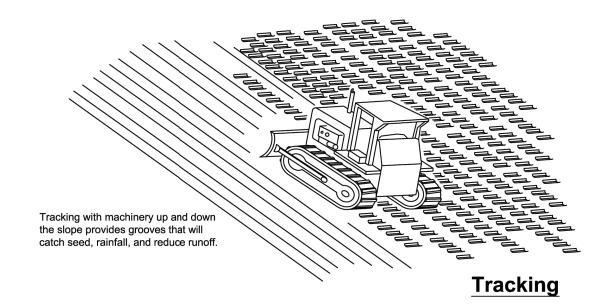


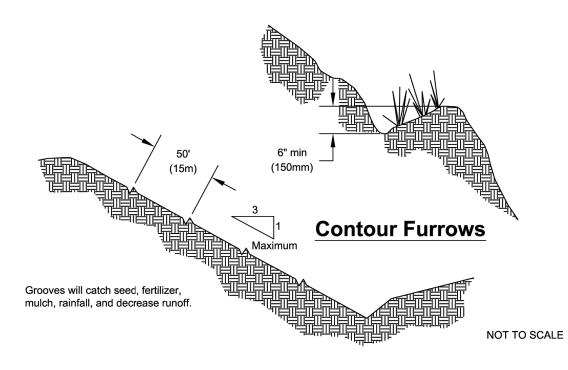
1. Slope surface shall be smooth before placement for

- proper soil contact. Stapling pattern as per manufacturer's recommendations.
   Do not stretch blankets/mattings tight - allow the rolls to
- mold to any irregularities. 4. For slopes less than 3H:1V, rolls may be placed in
- horizontal strips.
- 5. If there is a berm at the top of the slope, anchor upslope of the berm.

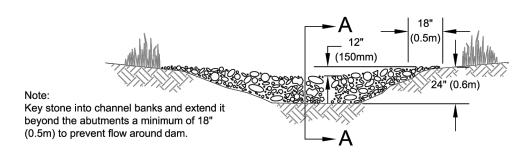
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6. Lime, fertilize, and seed before installation. Planting of shrubs, trees, etc. should occur after installation. NOT TO SCALE

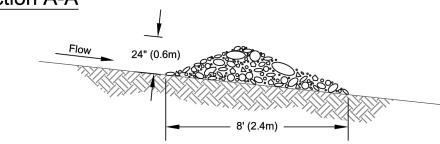




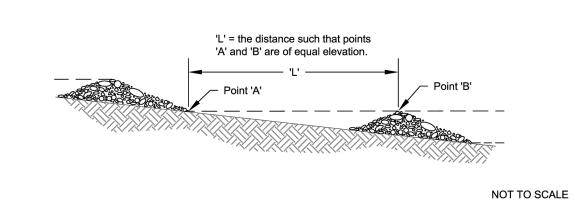
# View Looking Upstream



# Section A-A



# Spacing Between Check Dams



Alternatively topsoil strippings may be used to form the barrier.

Min. 5' wide brush barrier with max. 6" diameter woody debris.

Anchor downhill edge of

filter fabric with stakes,

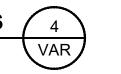
sandbags, or equivalent

NOT TO SCALE



DATE

**DETAIL - SURFACE ROUGHENING BY** TRACKING AND CONTOUR FURROWS



DETAIL - ROCK CHECK DAM SCALE: NTS



ETAIL - SLOPE INSTALLATION	3	
SCALE: NTS	VAR	

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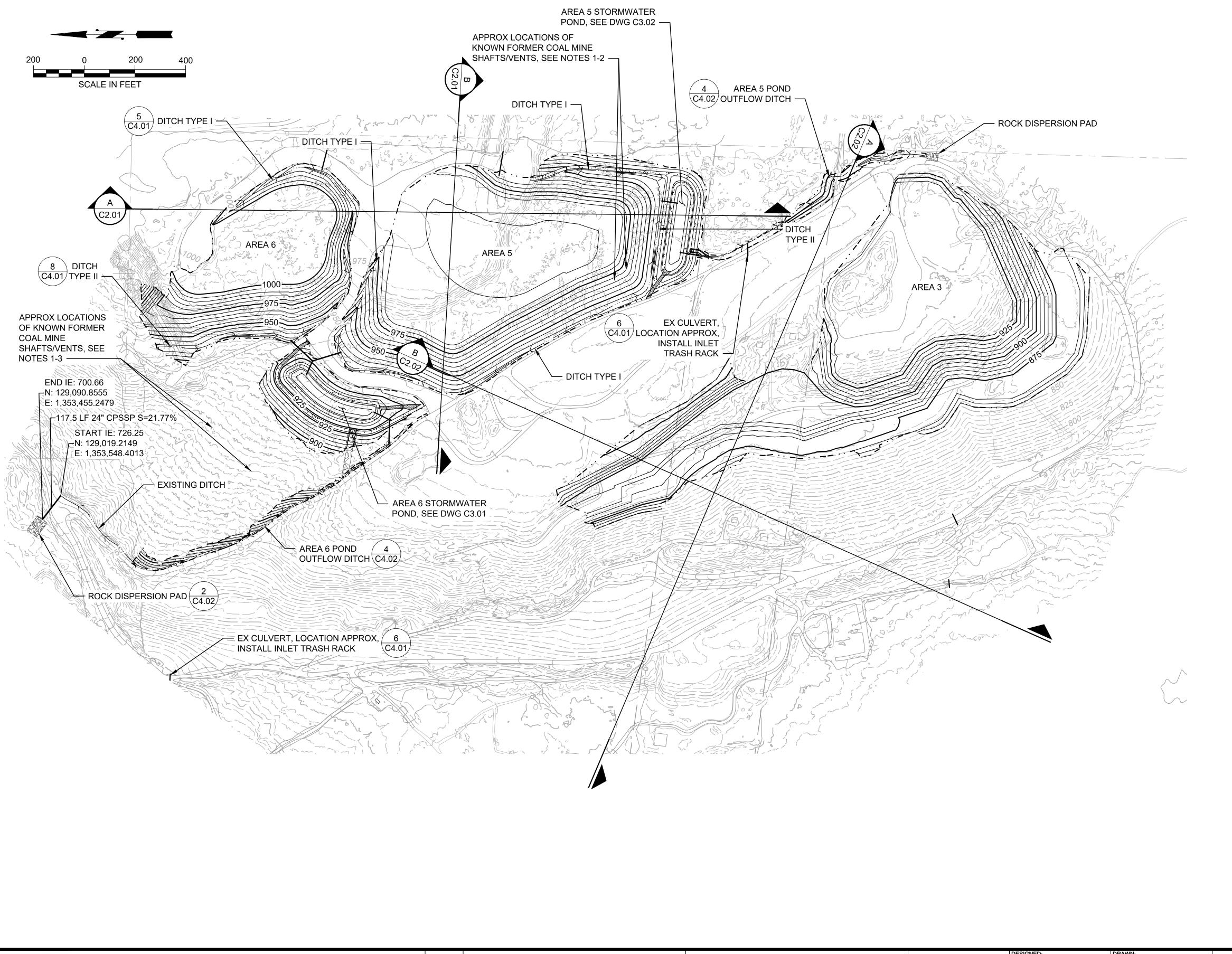
If required, drape filter fabric over

brush and secure in 4"x4" min. trench with compacted backfill

 FEBRUARY 2025
PROJECT NO:
24-08370-000
DRAWING NO:
TEC4.01
SHEET NO: OF 7 19

EROSION AND SEDIMENT CONTROL DETAILS

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# NOTES

- APPROXIMATE LOCATIONS OF KNOWN COAL MINE SHAFTS AND VENTS IN AREAS 5 AND 6 ARE IDENTIFIED ON THIS SHEET. ADDITIONAL COAL MINE SHAFTS MAY EXIST AT THE SITE. IDENTIFY ALL SHAFTS AND VENTS PRIOR TO PLACEMENT OF FILL IN THAT AREA.
- 2. FORMER COAL MINE SHAFTS AND VENTS IN AREAS SLATED FOR FILL PLACEMENT REQUIRE SUITABLE PLUG OR STRUCTURAL CAP TO BE DESIGNED BY OTHERS PRIOR TO PLACEMENT OF FILL.
- 3. FORMER COAL MINE SHAFTS IN AREAS NOT SLATED FOR FILL PLACEMENT SHALL BE FENCED OR GRATED AS DESCRIBED IN ASPECT CONSULTING'S 2023 GEOTECHNICAL EVALUATION FOR SECURING MINE OPENINGS.

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RESERVE SILICA CORPORATION 28131 RAVENSDALE - BLACK DIAMOND RD RAVENSDALE, WA 98051

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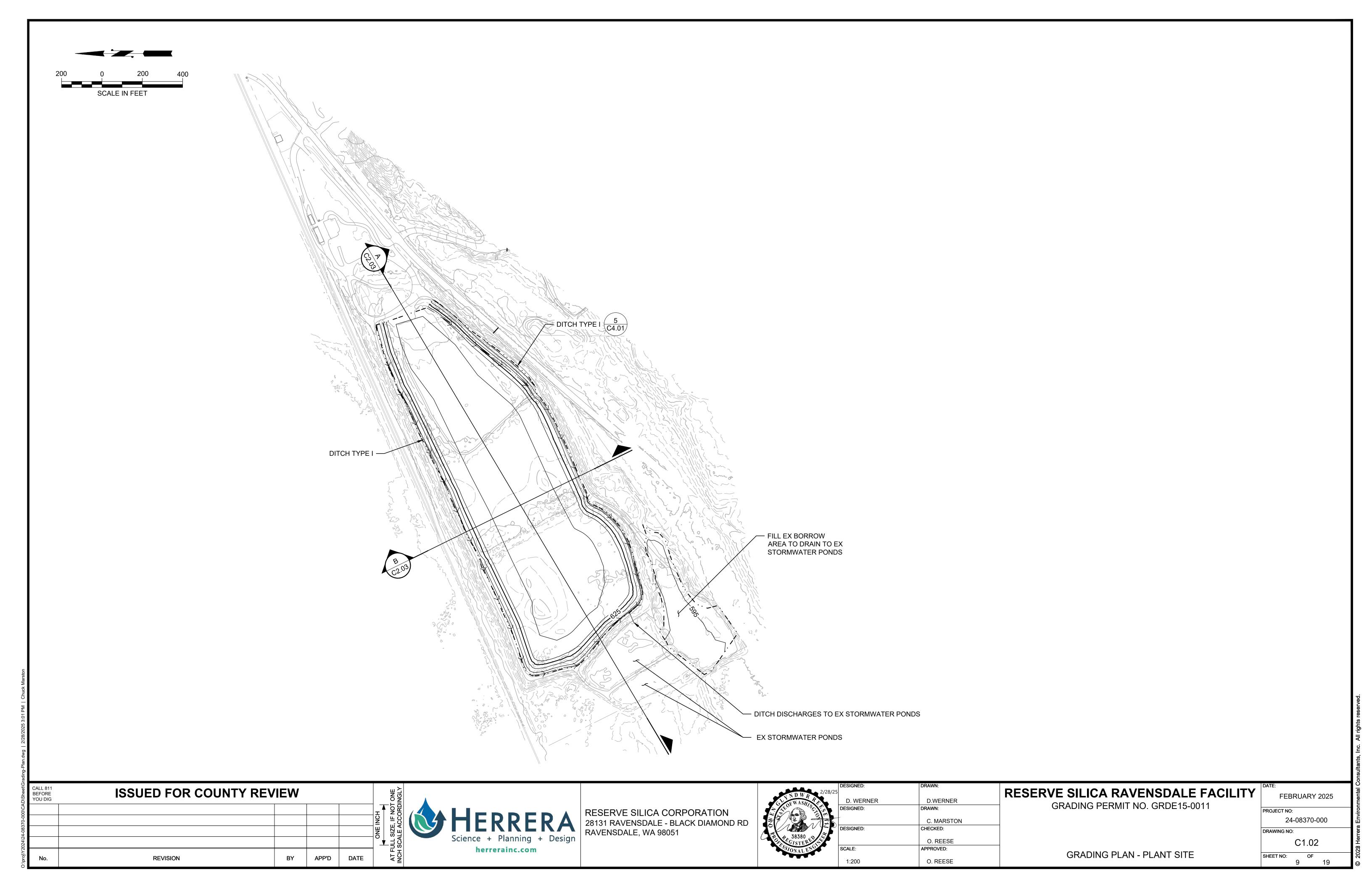
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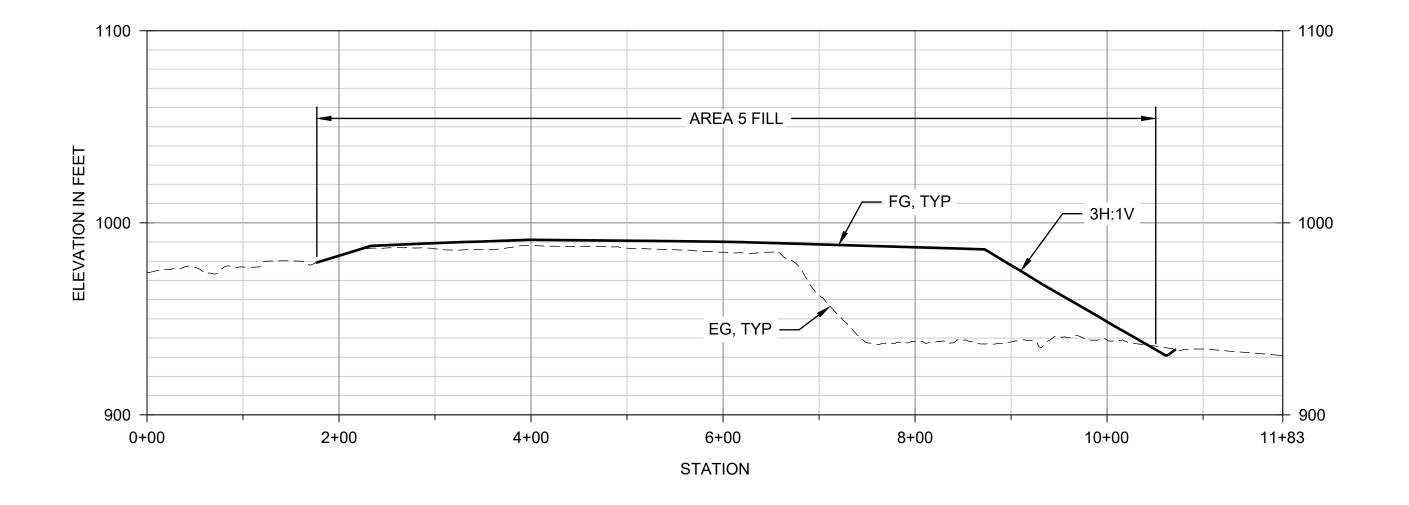
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**GRADING PLAN - FILL SITE** 



PROFILE - AREAS 5 AND 6 N TO S

HORIZ. SCALE: 1"=100'
VERT. SCALE: 1"=50'



PROFILE - AREAS 5 AND 6 E TO W

HORIZ. SCALE: 1"=100'
VERT. SCALE: 1"=50'

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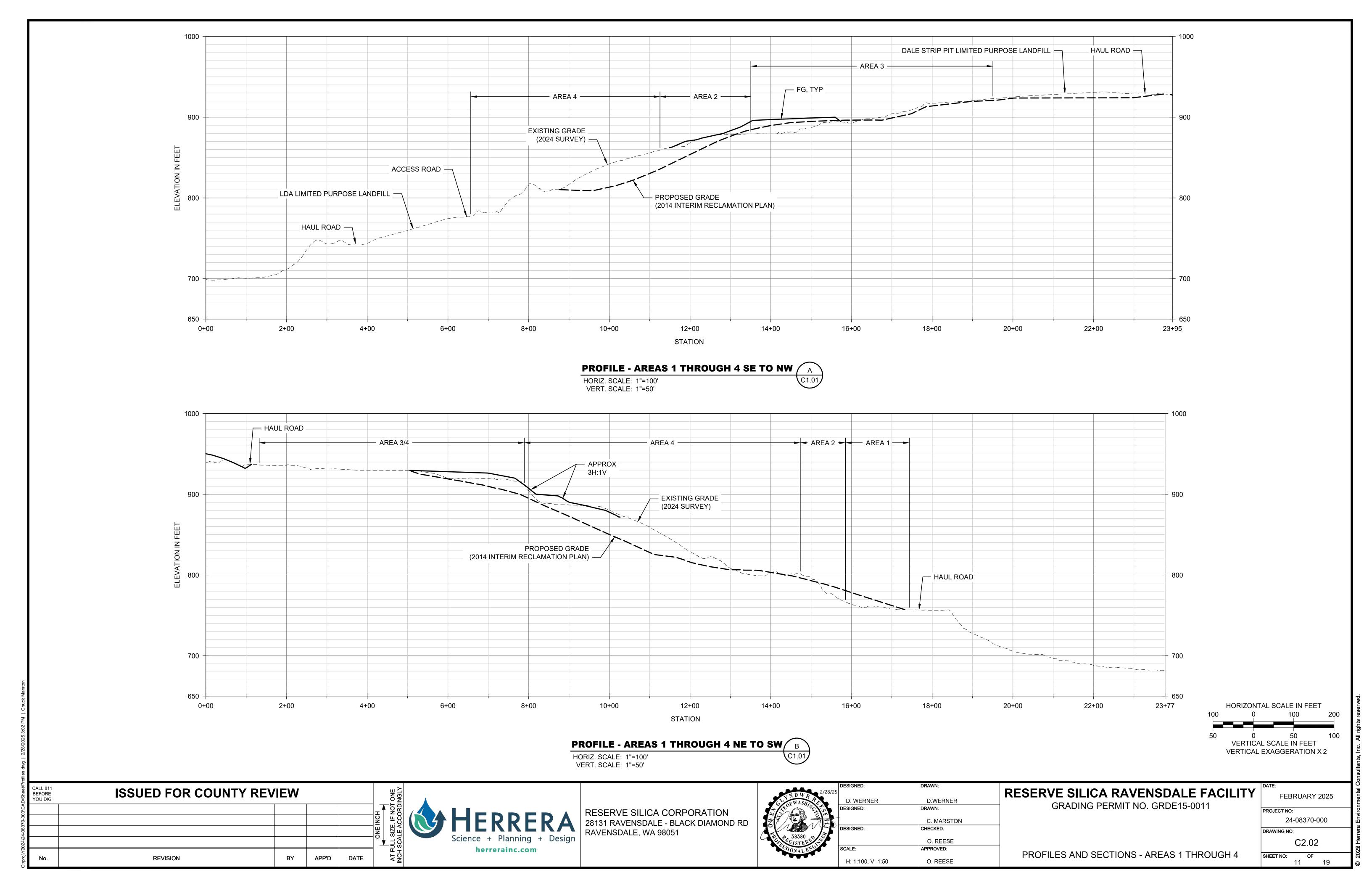


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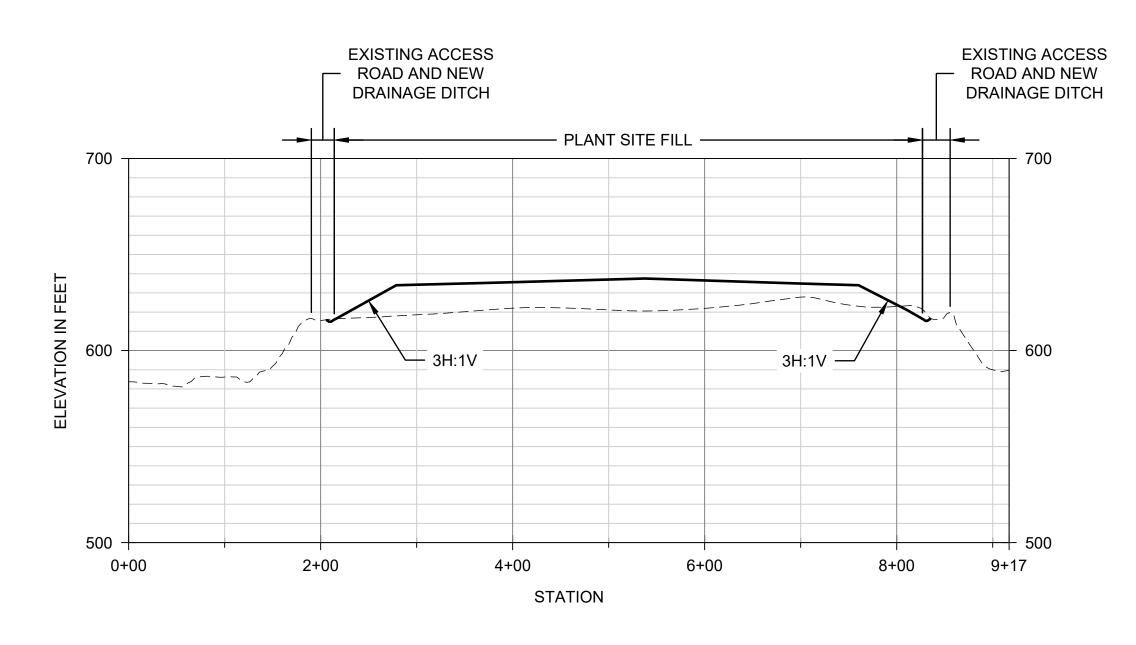
ERVE SILICA RAVENSDALE FACILITY GRADING PERMIT NO. GRDE15-0011	FEBRUARY 2025
SIADINOT ERMIT NO. SIADE 15-0011	PROJECT NO: 24-08370-000
	DRAWING NO: C2.01
PROFILES AND SECTIONS - AREAS 5 AND 6	SHEET NO: OF



PROFILE - PLANT SITE NE TO SW

O SW A C1.02

HORIZ. SCALE: 1"=100' VERT. SCALE: 1"=50'



PROFILE - PLANT SITE NW TO SE

HORIZ. SCALE: 1"=100' VERT. SCALE: 1"=50' B C1.02

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RESERVE SILICA CORPORATION
28131 RAVENSDALE - BLACK DIAMOND RD

SIONAL ENGINEER	S TZ

DESIGNED:	DRAWN:
D. WERNER	D.WERNER
DESIGNED:	DRAWN:
	C. MARSTON
DESIGNED:	CHECKED:
	O. REESE
SCALE:	APPROVED:
H: 1:100, V:1:50	O. REESE

RESERVE SILICA RAVENSDALE FACILITY
GRADING PERMIT NO. GRDE15-0011

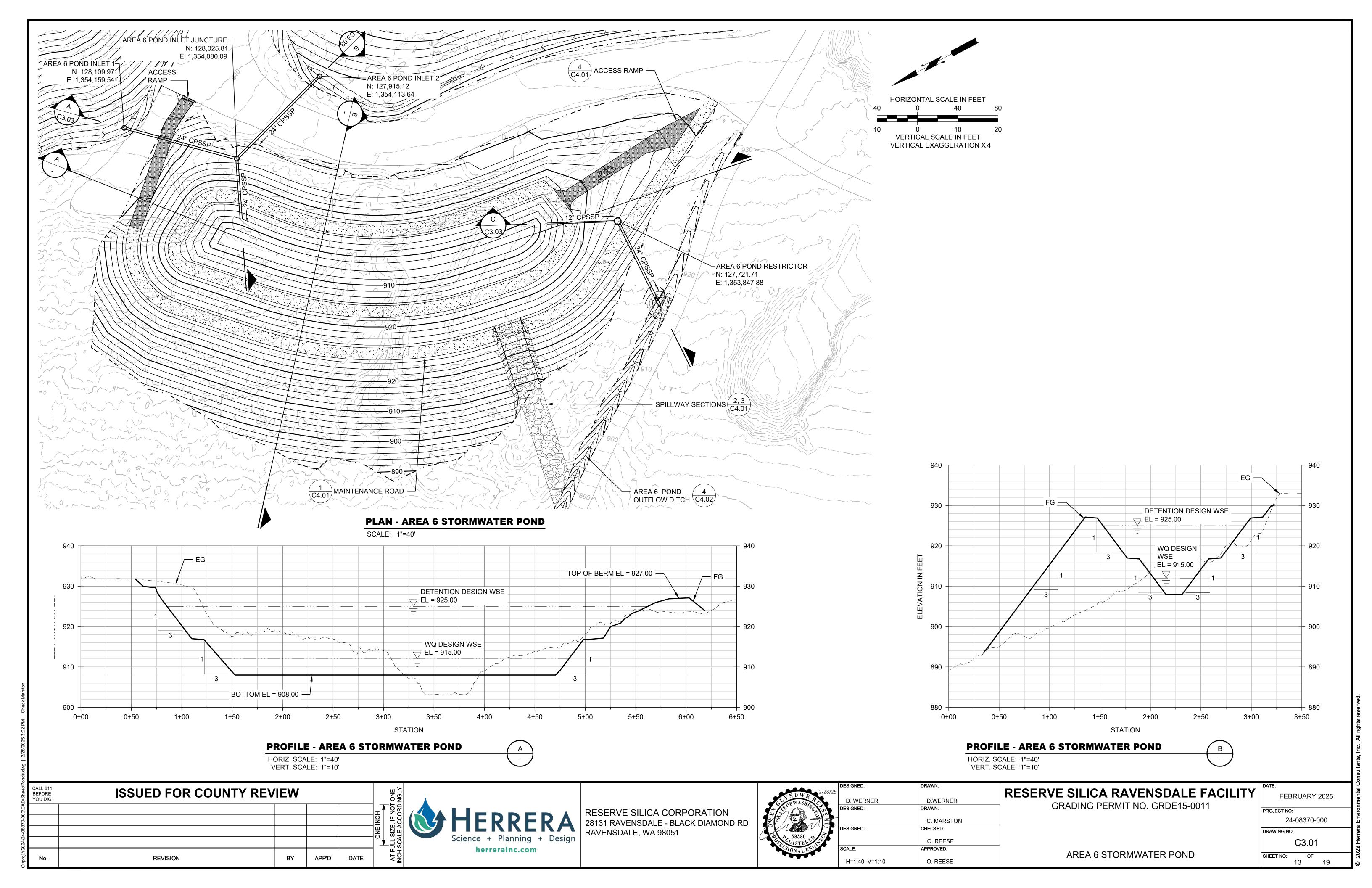
PROJECT NO:
24-08370-000

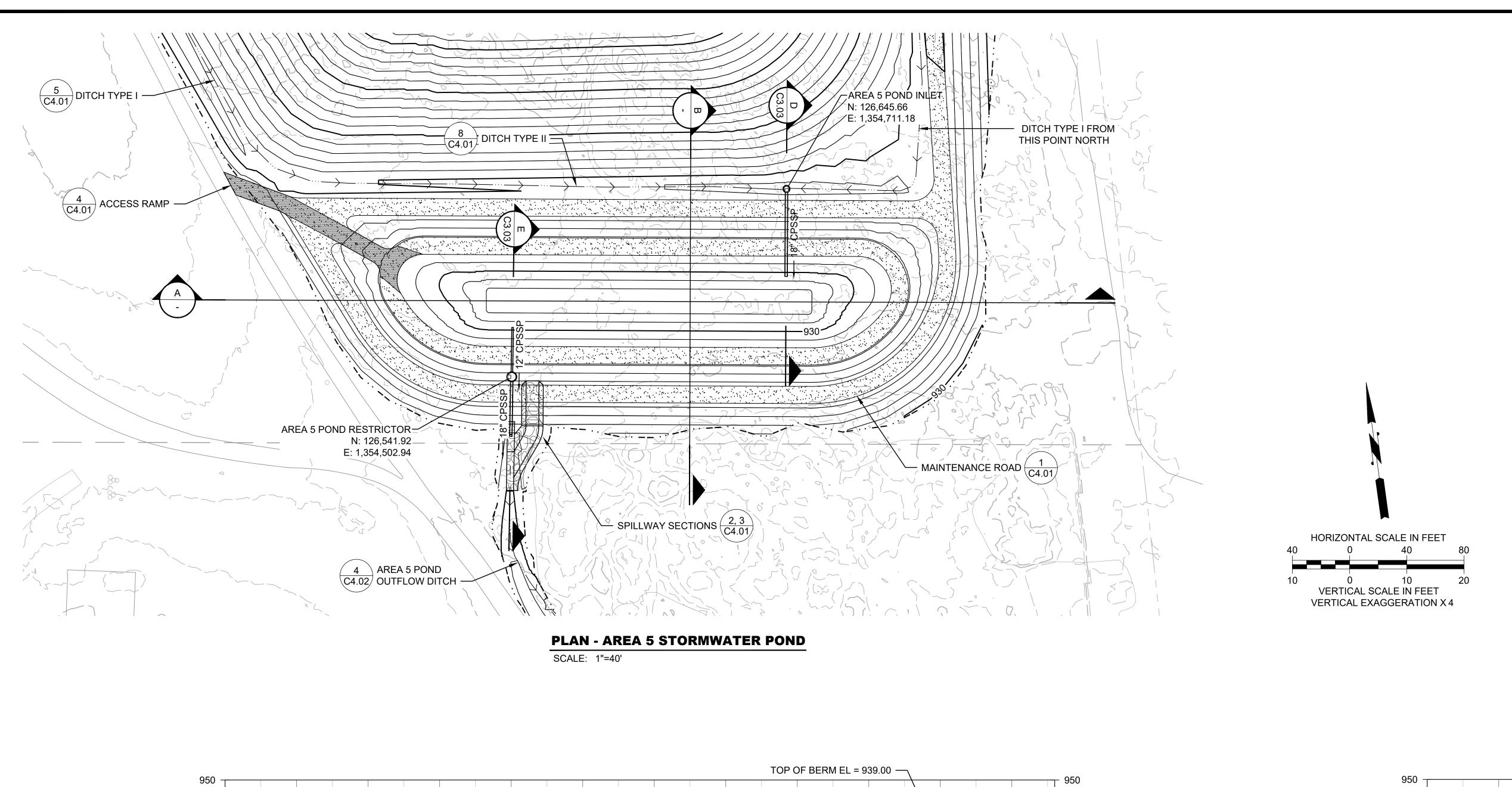
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C2.03

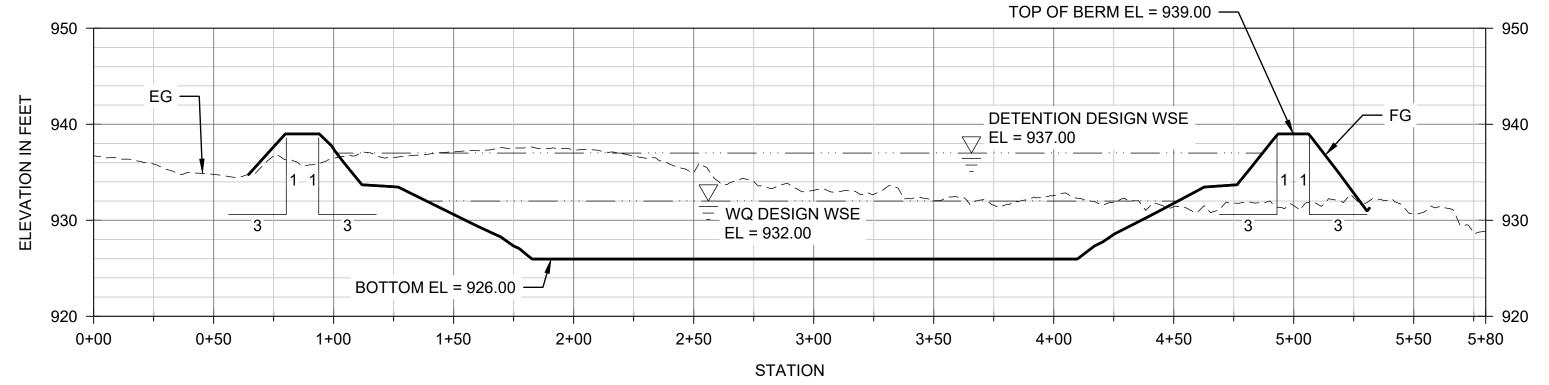
PROFILES AND SECTIONS - PLANT SITE

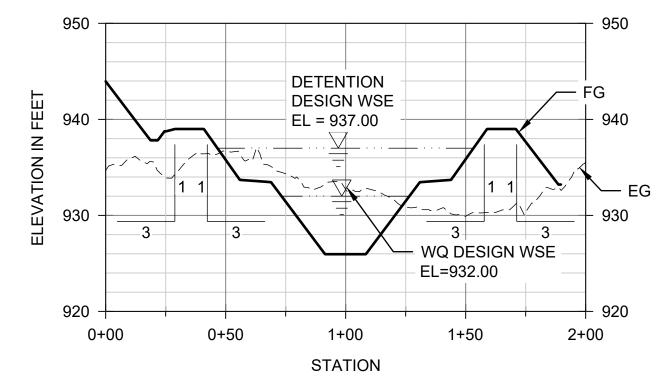
DATE:
FEBRUARY 2025

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# SECTION - AREA 5 STORMWATER POND HORIZ SCALE: 1"=40"

HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=10'



# SECTION - AREA 5 STORMWATER POND

HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=10'

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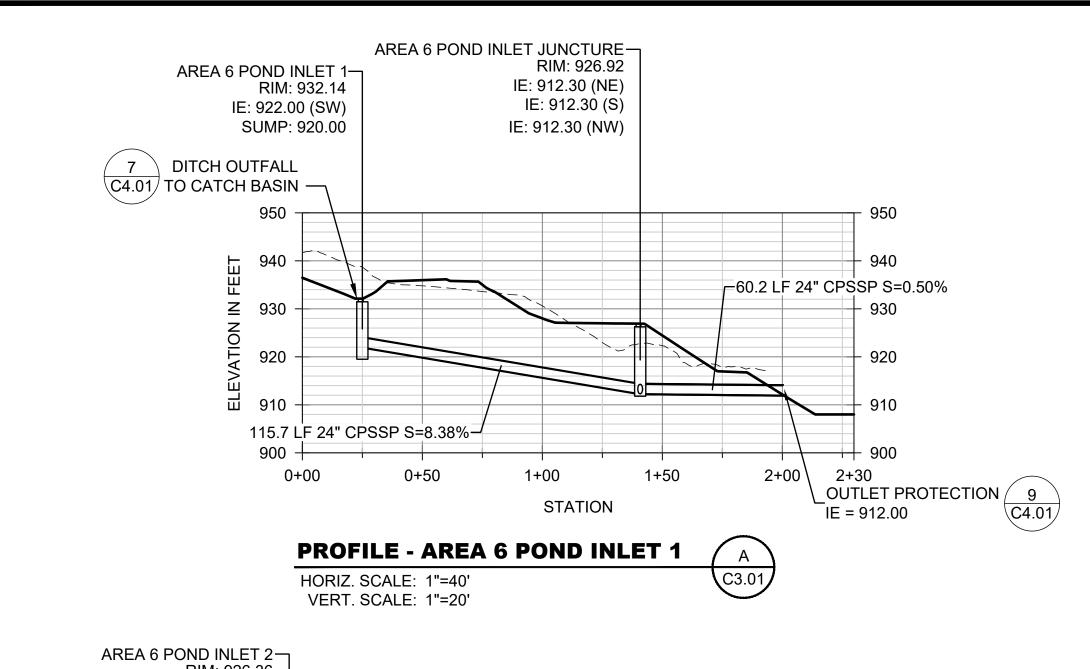


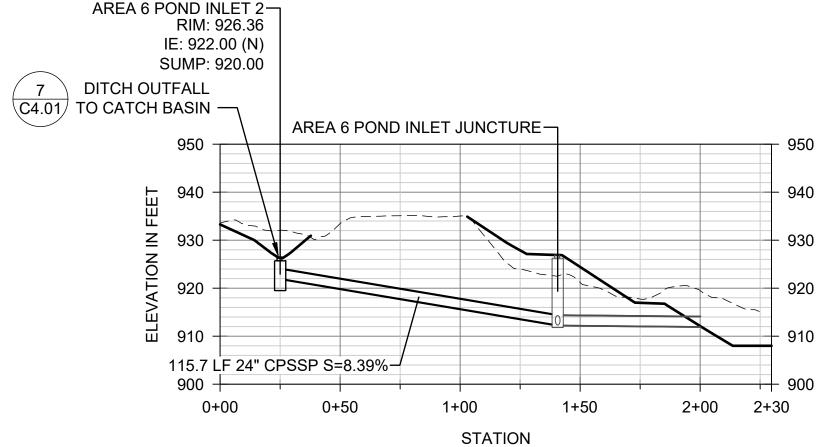
RESERVE SILICA CORPORATION 28131 RAVENSDALE - BLACK DIAMOND RD RAVENSDALE, WA 98051

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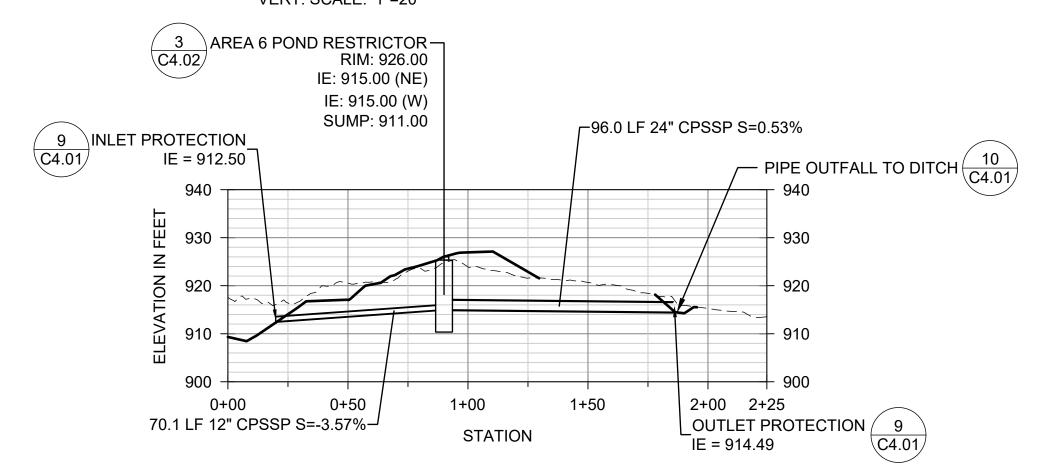
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D. WERNER	D.WERNER
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	C. MARSTON
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RESERVE SILICA RAVENSDALE FACILITY	DATE: FEBRUARY 2025	
GRADING PERMIT NO. GRDE15-0011	PROJECT NO: 24-08370-000	
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AREA 5 STORMWATER POND	SHEET NO: OF	

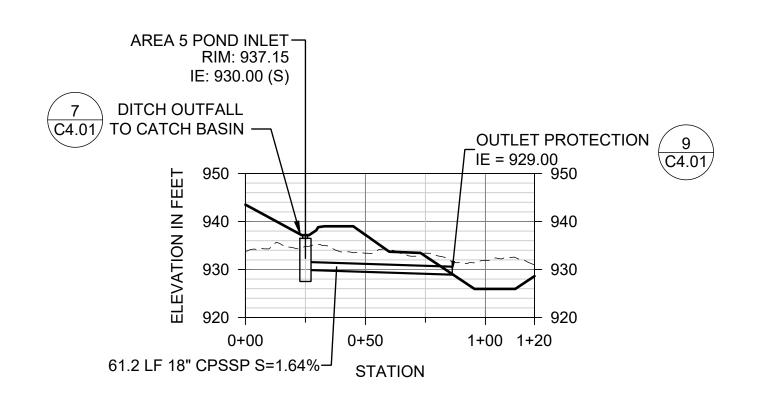




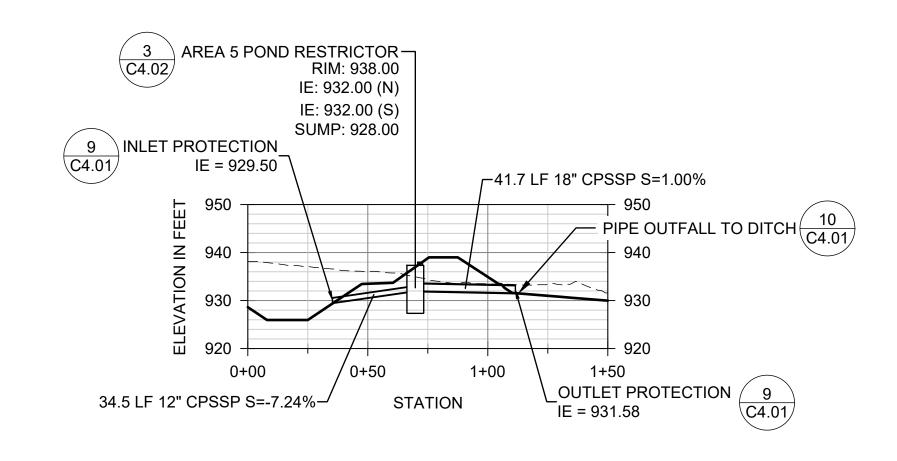
# PROFILE - AREA 6 POND INLET 2 HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=20'











PROFILE - AREA 5 POND OUTLET /	E '
HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=20'	C3.03

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RESERVE SILICA CORPORATION 28131 RAVENSDALE - BLACK DIAMOND RD RAVENSDALE, WA 98051

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	D. WERNER	D.WERNER
	DESIGNED:	DRAWN:
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		C. MARSTON
	DESIGNED:	CHECKED:
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		O. REESE
	SCALE:	APPROVED:
	AS NOTED	O. REESE

RESERVE SILICA RAVENSDALE FACILITY
GRADING PERMIT NO. GRDE15-0011

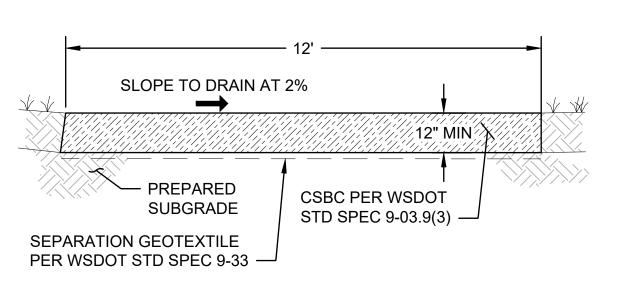
PROJECT NO:
24-08370-000

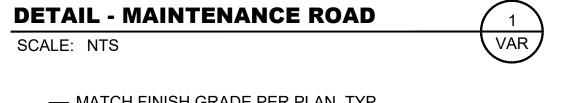
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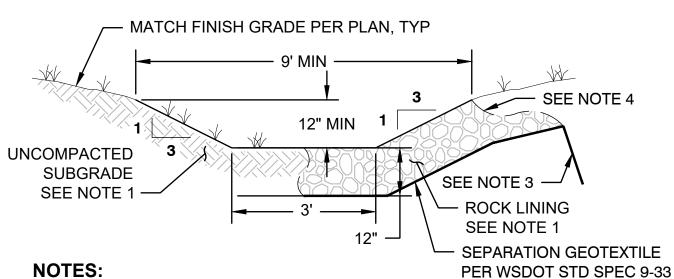
C3.03

STORMWATER PIPE PROFILES

STORMWATER 19







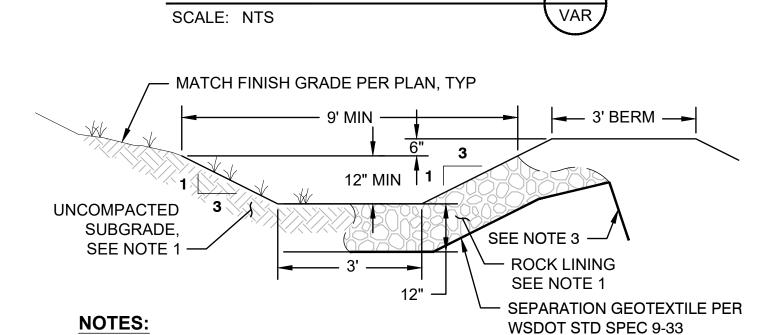
- DITCH LINING TO BE UNCOMPACTED SUBGRADE WITH VEGETATION IF SLOPE IS <10%. IF SLOPE IS > 10%, ROCK LINING IS REQUIRED. SEE NOTE 2 FOR ROCK LINING REQUIREMENTS.
- 2. ROCK LINING SHALL BE REASONABLY WELL GRADED QUARRY SPALLS AS FOLLOWS:

MAXIMUM STONE SIZE: 12 INCHES **MEDIAN STONE SIZE:** 8 INCHES

MINIMUM STONE SIZE: 2 INCHES 3. ANCHOR SEPARATION GEOTEXTILE TO A MINIMUM DEPTH OF 12 INCHES.

**DETAIL - DITCH TYPE I** 

- 4. WIDTH OF QUARRY SPALLS SHALL EXTEND ALONG DITCH BOTTOM AND TO 1.25' ABOVE DITCH BOTTOM.
- 5. INSTALL ROCK CHECK DAMS PER 5/C4.02 IF SLOPE IS BETWEEN 5% AND 10%.



- DITCH LINING TO BE UNCOMPACTED SUBGRADE WITH VEGETATION IF SLOPE IS <10%. IF SLOPE IS > 10%. ROCK LINING IS REQUIRED. SEE NOTE 2 FOR ROCK LINING REQUIREMENTS.
- 2. ROCK LINING SHALL BE REASONABLY WELL GRADED QUARRY SPALLS AS FOLLOWS:

MAXIMUM STONE SIZE: 12 INCHES 8 INCHES MEDIAN STONE SIZE: 2 INCHES MINIMUM STONE SIZE:

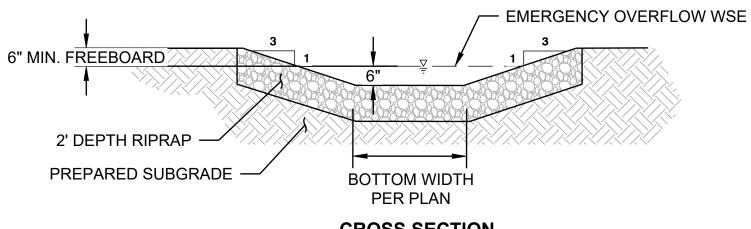
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- 3. ANCHOR SEPARATION GEOTEXTILE TO A MINIMUM DEPTH OF 12 INCHES.
- 4. WIDTH OF QUARRY SPALLS SHALL EXTEND ALONG DITCH BOTTOM AND TO 1.25' ABOVE DITCH BOTTOM.
- 5. INSTALL ROCK CHECK DAMS PER 5/C4.02 IF SLOPE IS BETWEEN 5% AND 10%.





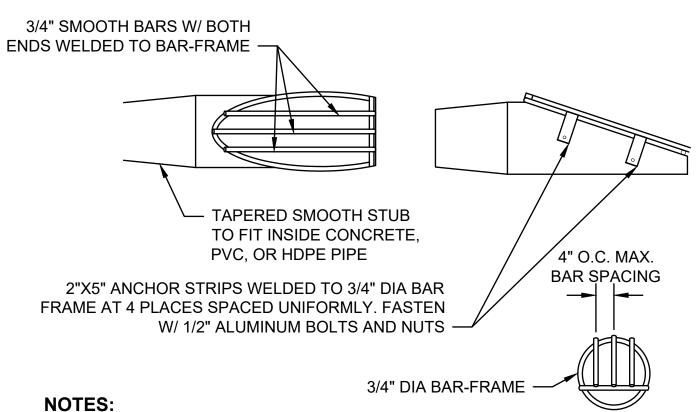
**CROSS SECTION** NOTES:

1. RIPRAP GRADATION AS FOLLOWS:

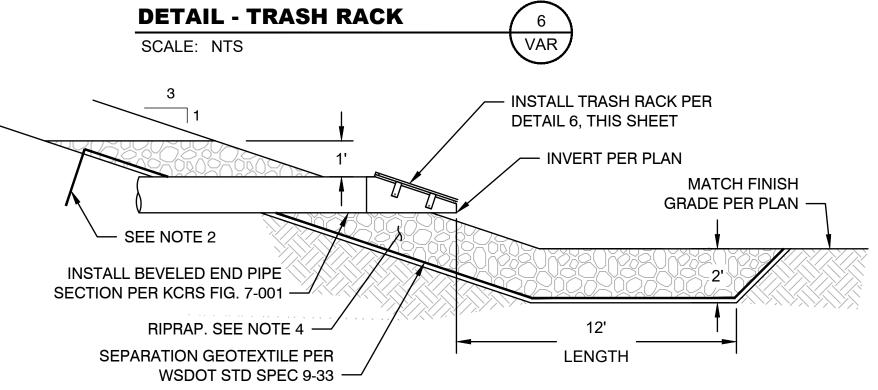
MAXIMUM STONE SIZE: 24 INCHES (NOMINAL DIAMETER) MEDIAN STONE SIZE: 16 INCHES

MINIMUM STONE SIZE: 4 INCHES

**DETAIL - SPILLWAY** SCALE: NTS



1. TRASH RACK SHALL BE FABRICATED WITH ALUMINUM 6061 IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 9-28.14(3).



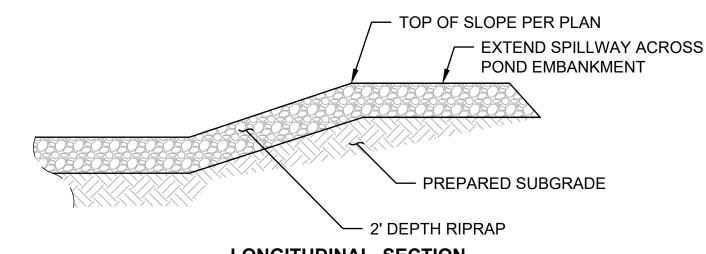
**NOTES:** 

- 1. INSTALL RIPRAP AT CULVERT OUTLETS UNLESS OTHERWISE NOTED IN DRAWINGS.
- 2. ANCHOR SEPARATION GEOTEXTILE TO A MINIMUM DEPTH OF 12 INCHES.
- 3. WIDTH OF RIP RAP IS 8.0'.
- 4. RIPRAP GRADATION AS FOLLOWS:

MAXIMUM STONE SIZE: 24 INCHES (NOMINAL DIAMETER) **MEDIAN STONE SIZE:** 16 INCHES

MINIMUM STONE SIZE: 4 INCHES

> **DETAIL - POND INLET PROTECTION** VAR SCALE: NTS



4" TYP CSBC PER WSDOT STD SPEC 9-03.9(3) SLOPE TO DRAIN AT 2% SEPARATION GEOTEXTILE PER WSDOT STD SPEC 9-33 · QUARRY SPALLS, TYP

LONGITUDINAL SECTION NOTES:

1. RIPRAP GRADATION AS FOLLOWS:

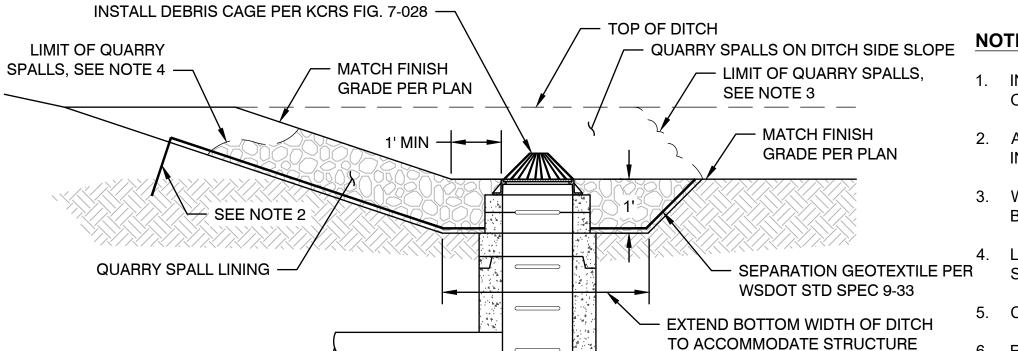
MAXIMUM STONE SIZE: 24 INCHES (NOMINAL DIAMETER)

16 INCHES MEDIAN STONE SIZE: MINIMUM STONE SIZE: 4 INCHES

**DETAIL - SPILLWAY ENERGY DISSIPATOR** SCALE: NTS

**DETAIL - ACCESS RAMP** SCALE: NTS

VAR



— OUTLET PIPE. IE PER PLAN

- INSTALL QUARRY SPALLS AT DITCH OUTLETS UNLESS OTHERWISE NOTED IN DRAWINGS.
- 2. ANCHOR SEPARATION GEOTEXTILE TO A MINIMUM DEPTH OF 12 INCHES.
- 3. WIDTH OF QUARRY SPALLS SHALL EXTEND ALONG DITCH BOTTOM AND TO 1.25' ABOVE CATCH BASIN RIM.
- 4. LENGTH OF QUARRY SPALLS SHALL EXTEND ALONG RUNNING SLOPE OF DITCH TO 8' FROM CATCH BASIN.
- 5. CATCH BASIN RIM PER PLAN. SET RIM TO MATCH FINISH GRADE.
- 6. ROCK LINING SHALL BE QUARRY SPALLS WITH GRADATION AS FOLLOWS:

PASSING 8-INCH SQUARE SEIVE: PASSING 3-INCH SQUARE SIEVE: PASSING 3/4-INCH SQUARE SIEVE:

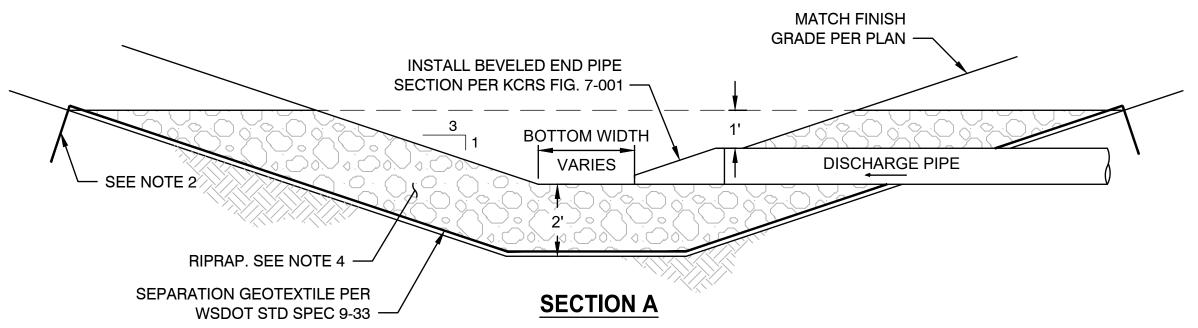
100% 40-60% MAX 0-10% MAX



NOTE 5

48" CATCH BASIN TYPE 2

PER KCRS FIG. 7-005, SEE



# NOTES:

- 1. INSTALL RIPRAP AT CULVERT OUTLETS UNLESS OTHERWISE NOTED IN DRAWINGS.
- 2. ANCHOR SEPARATION GEOTEXTILE TO A MINIMUM DEPTH OF 12 INCHES
- 3. LENGTH OF RIPRAP SHALL EXTEND ALONG RUNNING SLOPE OF DITCH TO 12' FROM PIPE OUTFALL.

4. RIPRAP GRADATION AS FOLLOWS:

MAXIMUM STONE SIZE: 24 INCHES (NOMINAL DIAMETER) MEDIAN STONE SIZE: 16 INCHES

MINIMUM STONE SIZE: 4 INCHES

**DETAIL - PIPE OUTFALL TO DITCH** VAR SCALE: NTS

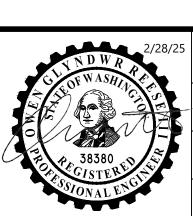
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RESERVE SILICA CORPORATION 28131 RAVENSDALE - BLACK DIAMOND RD RAVENSDALE, WA 98051



DESIGNED:	DRAWN:
D. WERNER	D.WERNER
DESIGNED:	DRAWN:
	I. RUMMELL
DESIGNED:	CHECKED:
	O. REESE
SCALE:	APPROVED:
AS NOTED	O. REESE

RESERVE SILICA RAVENSDALE FACILITY FEBRUARY 2025 GRADING PERMIT NO. GRDE15-0011 PROJECT NO: 24-08370-000 DRAWING NO: C4.01

**DRAINAGE DETAILS 1** 

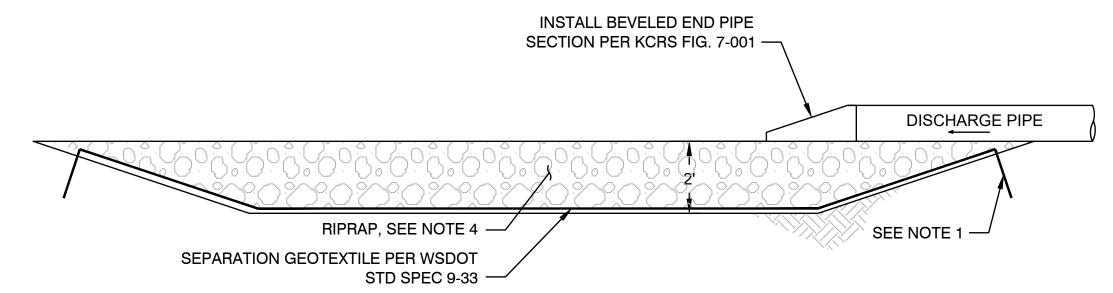
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### NOTES:

- 1. CONSTRUCT FLOW RESTRICTOR PER KCRS FIG. 7-025 AS MODIFIED IN THESE PLANS.
- 2. SET RISER, ORIFICE SIZES AND ELEVATIONS PER THE TABLE ABOVE.
- 3. ALL ORIFICES ARE CIRCULAR WITH HORIZONTAL ORIENTATION EITHER ON BOTTOM OF RISER PLATE OR ON BOTTOM OF DOWNTURNED ELBOW.
- 4. ORIFICE ELEVATION NUMBER INDICATES INVERT ELEVATION FOR ELBOW RESTRICTOR.
- 5. ORIFICE ELEVATION OF 'BOTTOM' INDICATES ORIFICE IS ON BOTTOM OF FLOW CONTROL TEE.





# NOTES:

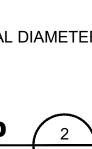
- 1. ANCHOR SEPARATION GEOTEXTILE TO A MINIMUM DEPTH OF 12 INCHES.
- 2. LENGTH AND WIDTH OF RIPRAP PER PLAN
- 3. RIPRAP TO EXTEND 2' UPSTREAM OF OUTLET PIPE
- 4. RIPRAP GRADATION AS FOLLOWS:

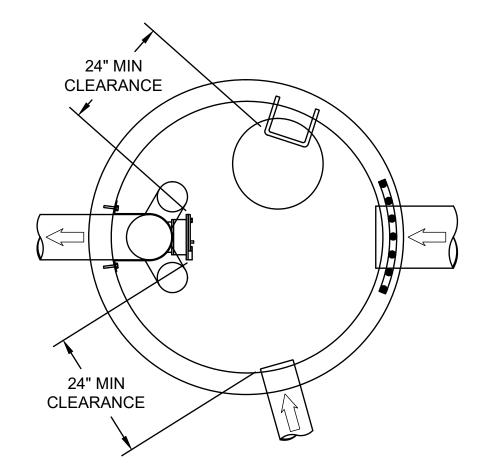
MAXIMUM STONE SIZE: 24 INCHES (NOMINAL DIAMETER)
MEDIAN STONE SIZE: 16 INCHES
MINIMUM STONE SIZE: 4 INCHES

DETAIL - ROCK DISPERSION PAD

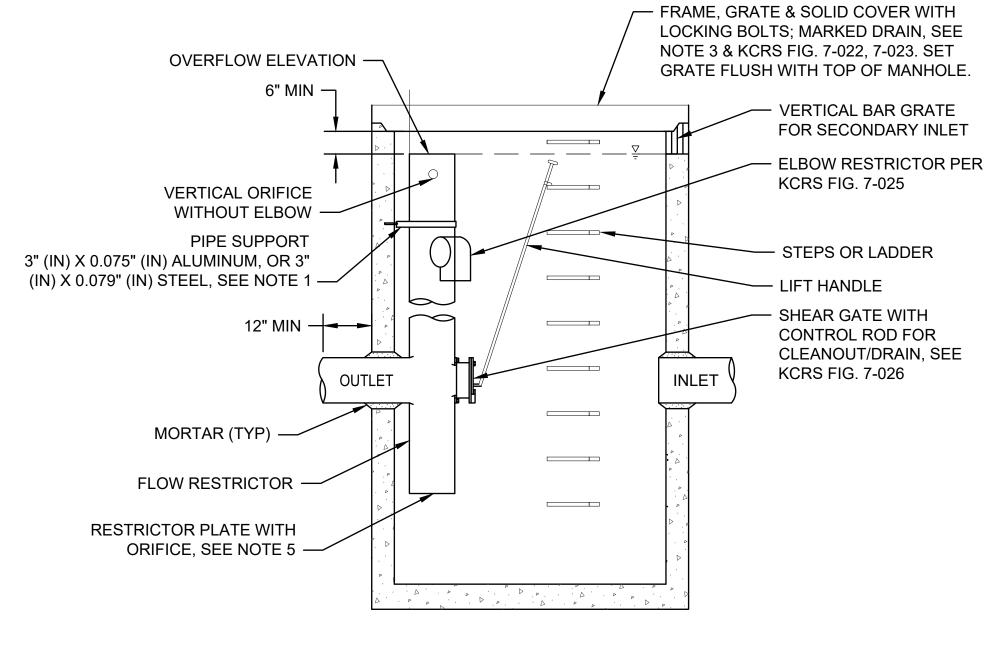
SCALE: NTS

VAR





# **PLAN VIEW**

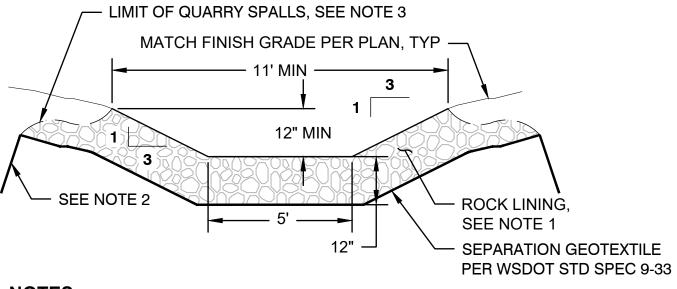


# **SECTION A**

# 1. THE PIPE SUPPORTS AND THE FLOW RESTRICTOR SHALL BE CONSTRUCTED OF THE SAME MATERIAL AND BE ANCHORED AT A MAXIMUM SPACING OF 36" (IN). ATTACH THE PIPE SUPPORTS TO THE MANHOLE WITH 5/8" (IN) STAINLESS STEEL EXPANSION BOLTS OR EMBED THE SUPPORTS INTO THE MANHOLE WALL 2" (IN).

- 2. THE FLOW RESTRICTOR SHALL BE FABRICATED FROM ONE OF THE FOLLOWING MATERIALS: 0.060" (IN) CORRUGATED ALUMINUM ALLOY DRAIN PIPE 0.064" (IN) CORRUGATED GALVANIZED STEEL DRAIN PIPE WITH TREATMENT 1 0.064" (IN) CORRUGATED ALUMINIZED STEEL DRAIN PIPE 0.060" (IN) ALUMINUM ALLOY FLAT SHEET, IN ACCORDANCE WITH ASTM B 209, 5052 H32 OR EPS HIGH DENSITY POLYETHYLENE STORM SEWER PIPE
- 3. THE FRAME AND LADDER OR STEPS ARE TO BE OFFSET SO THAT: THE SHEAR GATE IS VISIBLE FROM THE TOP; THE CLIMB-DOWN SPACE IS CLEAR OF THE RISER AND GATE; THE FRAME IS CLEAR OF THE CURB.
- 4. THE MULTI-ORIFICE ELBOWS MAY BE LOCATED AS SHOWN, OR ALL PLACED ON ONE SIDE OF THE RISER TO ASSURE LADDER CLEARANCE. THE SIZE OF THE ELBOWS AND THEIR PLACEMENT SHALL BE SPECIFIED IN DETAIL 1 THIS SHEET.
- 5. RESTRICTOR PLATE WITH ORIFICE AS SPECIFIED IN DETAIL 1 THIS SHEET. THE OPENING IS TO BE CUT ROUND AND SMOOTH AND CENTERED IN THE RESTRICTOR PLATE.
- 6. RESTRICTOR TO BE CONSTRUCTED PER KCRS FIG. 7-025. FIGURE PRESENTED ABOVE IS FOR REFERENCE ONLY.





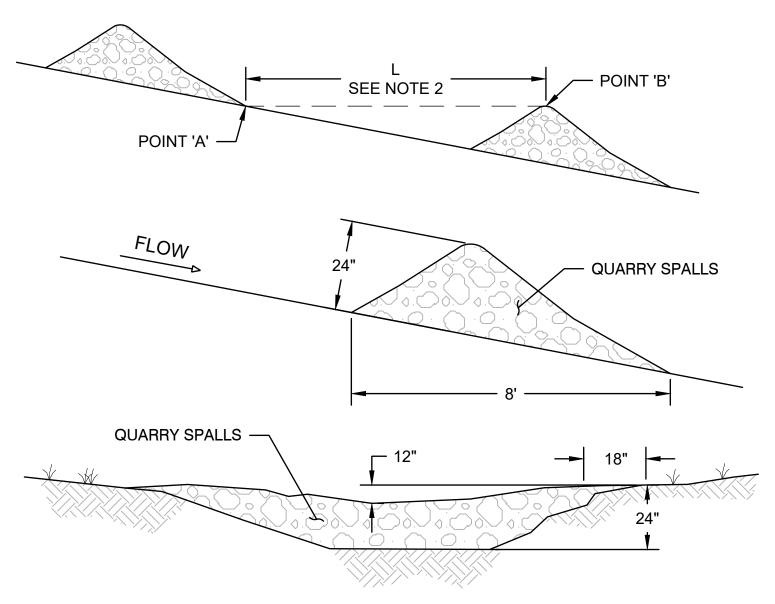
#### NOTES:

1. ROCK LINING SHALL BE REASONABLY WELL GRADED QUARRY SPALL AS FOLLOWS:

MAXIMUM STONE SIZE: 12 INCHES MEDIAN STONE SIZE: 8 INCHES MINIMUM STONE SIZE: 2 INCHES

- 2. ANCHOR GEOTEXTILE-TYPE 2 TO A MINIMUM DEPTH OF 12 INCHES.
- 3. WIDTH OF QUARRY SPALLS SHALL EXTEND ALONG DITCH BOTTOM AND TO 1.25' ABOVE CATCH BASIN RIM.
- 4. INSTALL ROCK CHECK DAMS PER 5/C4.02 IF SLOPE IS BETWEEN 5% AND 10%.





# NOTES:

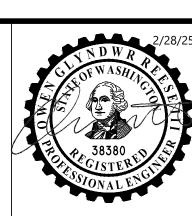
- 1. KEY STONE INTO CHANNEL BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIMUM OF 18" TO PREVENT FLOW AROUND DAM.
- SPACING BETWEEN CHECK DAMS "L" IS TO BE THE DISTANCE SUCH THAT POINTS 'A' AND 'B' ARE OF EQUAL ELEVATION.





RESERVE SILICA CORPORATION 28131 RAVENSDALE - BLACK DIAMOND RD RAVENSDALE, WA 98051

NOTES:



SIGNED:	DRAWN:	_
D. WERNER	D.WERNER	F
SIGNED:	DRAWN:	
	I. RUMMELL	
SIGNED:	CHECKED:	
	O. REESE	
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AS NOTED	O. REESE	

RESERVE SILICA RAVENSDALE FACILITY

DRAINAGE DETAILS 2

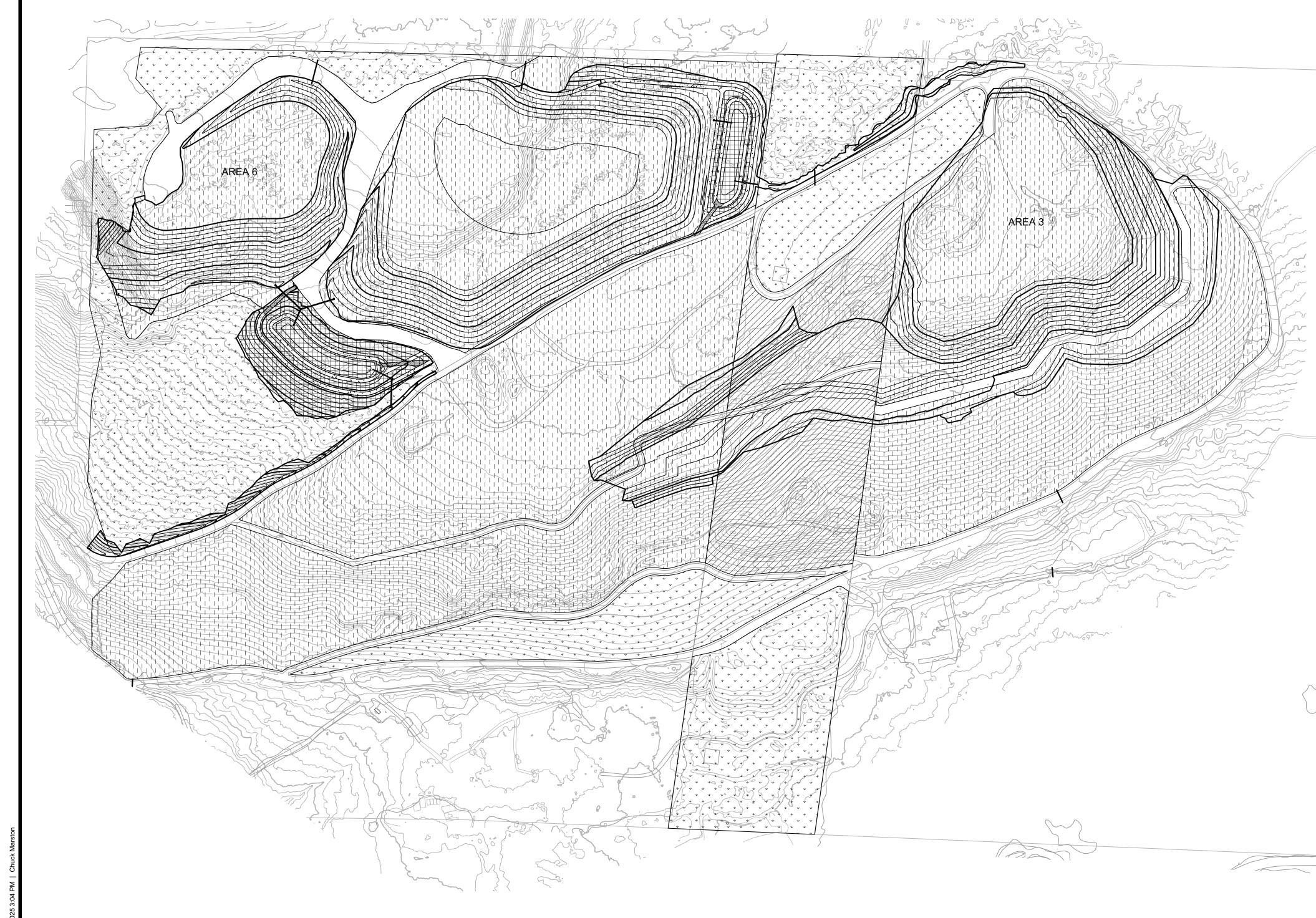
VE SILICA RAVENSDALE FACILITY
GRADING PERMIT NO. GRDE15-0011

PROJECT NO:
24-08370-000

DRAWING NO:
C4.02

SHEET NO:

17



# PLANT SCHEDULE FILL SITE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
4,221,643 SF		4,221,643 SF	RECLAMATION PLANTING - FOREST		
	ACE CIR ACE MAC PRU EMA PSE DOU QUE GAR TSU HET AME SER HOL DIS MAH NER	7,311 2,438 5,078 4,334 2,167 2,438 4,876 15,235 20,314	ACER CIRCINATUM ACER MACROPHYLLUM PRUNUS EMARGINATA PSEUDOTSUGA MENZIESII QUERCUS GARRYANA TSUGA HETEROPHYLLA AMELANCHIER ALNIFOLIA HOLODISCUS DISCOLOR MAHONIA NERVOSA	VINE MAPLE BIG LEAF MAPLE BITTER CHERRY DOUGLAS FIR OREGON WHITE OAK WESTERN HEMLOCK SERVICEBERRY OCEANSPRAY OREGON GRAPE	1 GAL. 1 GAL. 1 GAL. 1 GAL. 1 GAL. 1 GAL. 1 GAL. 1 GAL.
	MAH REP RIB SAN SAM RAC SYM ALB	20,314 20,314 7,619 7,619 27,086	MAHONIA NERVOSA MAHONIA REPENS RIBES SANGUINEUM SAMBUCUS RACEMOSA SYMPHORICARPOS ALBUS	CREEPING MAHONIA RED FLOWERING CURRANT RED ELDERBERRY COMMON WHITE SNOWBERRY	1 GAL. 1 GAL. 1 GAL. 1 GAL.
	AME SER HOL DIS MAH NER MAH REP RIB SAN SAM RAC SYM ALB	487,860 SF 564 1,761 2,347 2,347 880 880 3,130	RECLAMATION PLANTING - SHRUBS  AMELANCHIER ALNIFOLIA HOLODISCUS DISCOLOR MAHONIA NERVOSA MAHONIA REPENS RIBES SANGUINEUM SAMBUCUS RACEMOSA SYMPHORICARPOS ALBUS	SERVICEBERRY OCEANSPRAY OREGON GRAPE CREEPING MAHONIA RED FLOWERING CURRANT RED ELDERBERRY COMMON WHITE SNOWBERRY	1 GAL. 1 GAL. 1 GAL. 1 GAL. 1 GAL. 1 GAL.
, , , , , , , , , , , , , , , , , , ,		162,071 SF 1,599,070 SF	RECLAMATION SEEDING MIX EXISTING VEGETATION TO REMAIN		

RECLAMATION SEEDING MIX					
BOTANICAL NAME	COMMON NAME	% PLS OF MIX	PLS LB PER ACRE		
HORDEUM BRACHYANTHERUM	MEADOW BARLEY	25	13.4		
BROMUS CARINATUS	CALIFORNIA BROME	5	2.08		
FESTUCA RUBRA	RED FESCUE	20	1.84		
TRITICUM AESTIVUM X ELYTRIGIA ELONGATA	REGREEN	20	1.84		
LUPINUS BICOLOR	MINIATURE LUPINE	10	17.68		
ELYMUS GLAUCUS	BLUE WILDRYE	20	0.46		
AGROSTIS ALBA	REDTOP	5	0.06		

APPLICATION RATE: 100.27 PLS LB PER ACRE

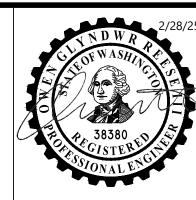
# **RECLAMATION PLANTING NOTES**

- 1. SEE L1.02 FOR RECLAMATION PLANTING DETAILS.
- 2. SEEDING AND PLANTING SHALL OCCUR AFTER GRADING HAS BEEN APPROVED BY ENGINEER.
- 3. BOUNDARIES BETWEEN PLANTING ZONES SHALL BE STAKED OR FLAGGED BY CONTRACTOR, PRIOR TO PLANT LAYOUT.
- 4. PROJECT REPRESENTATIVE SHALL APPROVE PLANT BOUNDARIES AND LAYOUT PRIOR TO PLANTING.
- 5. ALL PLANTS SHALL CONFORM TO THE STANDARDS OF THE CURRENT EDITION OF AMERICAN STANDARD FOR NURSERY STOCK AS APPROVED BY THE AMERICAN STANDARDS INSTITUTE (ANSI Z60.1-2014)
- 6. PLANT SUBSTITUTIONS ARE SUBJECT TO PRE-APPROVAL BY PROJECT REPRESENTATIVE. PLANT SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL A MINIMUM OF 30 DAYS PRIOR TO PLANT INSTALLATION.
- 7. PLANTS SHALL BE TAGGED OR MARKED FOR IDENTIFICATION WHEN DELIVERED.
- 8. PROJECT REPRESENTATIVE SHALL INSPECT ALL PLANT MATERIAL UPON EACH DAY OF DELIVERY. PROVIDE HEALTHY STOCK, GROWN IN NURSERY, AND FREE OF DIE-BACK, DISEASE, INSECTS, EGGS, BORES, AND LARVAE. PLANTS SHALL HAVE A ROOT SYSTEM, STEM, AND BRANCH FORM THAT WILL NOT RESTRICT NORMAL GROWTH, STABILITY, AND HEALTH FOR THE EXPECTED LIFE OF THE PLANT. ALL PLANTS WITH DAMAGED ROOTS, LEADERS, OR BRANCHES SHALL BE REJECTED. ROOTBOUND AND J-ROOTED OR PLANTS WILL BE REJECTED.
- 9. KEEP PLANTS SHADED UNTIL THE ACTUAL TIME OF PLANTING. DO NOT LET THE PLANT MATERIAL SIT IN THE SUN OR DRY OUT BEFORE PLANTING.
- 10. REMOVE ALL CONTAINERS, FABRIC, FASTENERS, PLANT TYING MATERIAL, AND MARKING TAPES AT TIME OF PLANTING.
- 11. NO PLANTING SHALL OCCUR WHEN GROUND IS FROZEN, DURING SNOW, EXTREME WIND, FLOODING, OR OTHER ADVERSE CONDITIONS THAT WILL AFFECT LONG-TERM PLANT HEALTH.
- 12. THOROUGHLY WATER ALL PLANTED AREAS, UNLESS PLANTED IN SATURATED OR INUNDATED AREAS, IMMEDIATELY AFTER PLANTING. WATER FOR OPTIMAL SOIL MOISTURE IN DRY PERIODS DURING PLANT ESTABLISHMENT.

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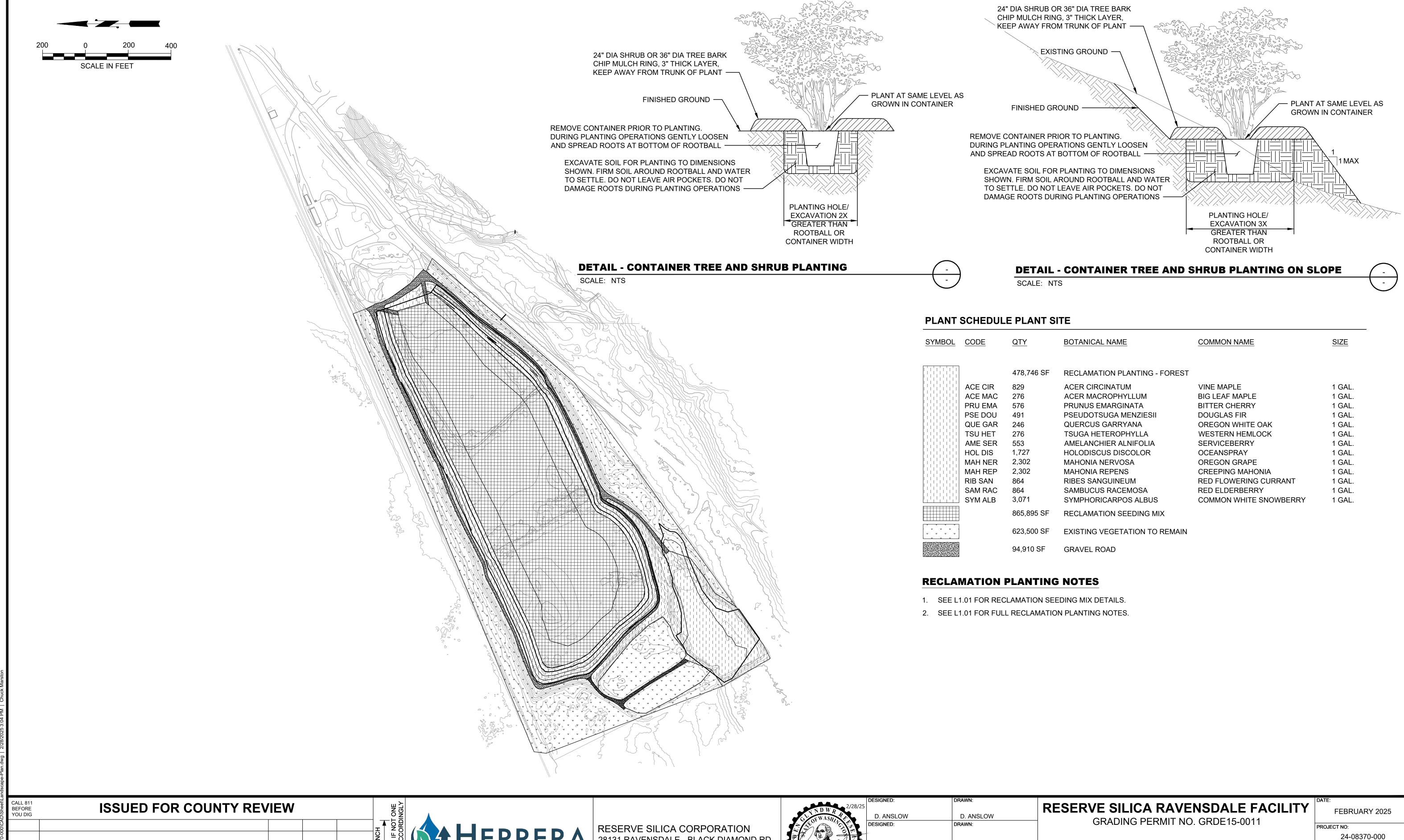
RESERVE SILICA CORPORATION 28131 RAVENSDALE - BLACK DIAMOND RD RAVENSDALE, WA 98051



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GRADING PERMIT NO. GRDE15-0011

RECLAMATION PLANTING PLAN - FILL SITE



herrerainc.com

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RECLAMATION PLANTING PLAN - PLANT SITE