

Date: March 25, 2025
To: Weber County Board of County Commissioners
From: Sean Wilkinson *sw*
Director, Community Development Department
Subject: **Request for approval of a donation of “Prop 1 Funds” in the amount of \$8,938 to Eden Valley Trails Trust for design of a retaining wall on a section of the Pineview Loop Trail**

Agenda Date: April 1, 2025

Documents: Exhibit A: Scope of work/Fee proposal
Exhibit B: 90% Plans
Exhibit C: Memorandum of Understanding with Eden Valley Trails Trust

Summary:

Eden Valley Trails Trust is requesting a donation of “Prop 1 funds” in the amount of \$8,938 for design of a retaining wall on a section of the Pineview Loop Trail. The retaining wall design began in 2021 and is already 90% complete. This request will cover the cost to finish the design work, prepare bid advertising documents, and prepare an engineer’s construction cost estimate.

The requested donation will come from the County option sales and use tax for highways and public transit, also known as “Prop 1 funds.” Weber County is authorized to use Prop 1 funds for specific transportation-related purposes described in state law, including “the development, construction, maintenance, or operation of” certain thoroughfares and trails.

On October 1, 2024, the County Commission approved a memorandum of understanding (MOU) with Eden Valley Trails Trust for all future Prop 1 Fund donations. This MOU eliminates the need for a separate agreement with each donation request.



February 11, 2025

Alan Wheelwright
Eden Valley Trails
edenvtt@gmail.com

RE: Scope and Fee Proposal for Burton Wall

Dear Alan:

Conсор North America, Inc. (Conсор) is pleased to submit this scope of work and fee proposal to complete the retaining wall design along the Pine View Loop Trail, known as the Burton Retaining Wall. Conсор has been asked to complete a previous design that reached a 90% level in January of 2021. Our scope of work is to provide a complete, sealed and signed set of drawings that will be ready for advertising.

The scope below includes all activities for confirming the existing conditions, completing the design, and developing an advertising set of plans.

The following assumptions are included in our definition of the scope of work:

ASSUMPTIONS

1. Conсор assumes the existing conditions are very similar to current conditions requiring no additional design. If existing conditions have changed a contract modification will be required to address design modifications.
2. Environmental clearance is not required and is not included.
3. Conсор assumes that no additional survey will be required. If the site has been significantly disturbed and survey is needed to finalize the plans, a contract mod will be necessary.
4. Conсор assumes there are no right of way tasks.
5. Drainage - No drainage system or improvements are included in the Scope of Work as currently defined.
6. Utilities - Utility relocation and coordination efforts are not expected and are excluded from the Scope of Work.
7. Geotechnical is not expected and is excluded from the Scope of Work.
8. Public outreach and public involvement is not expected and is excluded from the Scope of Work.
9. Lighting - Lighting is not expected and is excluded from the Scope of Work.
10. Advertising – Conсор will prepare plans, special provisions have been included in the plans, Eden Valley Trails will be responsible for any additional advertising documents and the advertising process.
11. Quality Control - The design process will follow Conсор’s established QC/QA Procedures.
12. Miscellaneous – All other items not specifically listed are excluded from the Scope of Work.

SCOPE OF WORK**GENERAL REQUIREMENTS**

1. Conсор will coordinate with Eden Valley Trails and governing agencies throughout design.
2. Conсор will prepare and deliver advertising plans, sealed and signed drawings.
3. Conсор will target delivery in March 2025. The specific date will be determined based on the execution of this contract modification and the final agreed-upon scope of work.

4. Progress meetings will be scheduled as necessary to clarify scope, report progress, or obtain direction.
5. Consor will submit monthly invoices, including the number of hours worked.

CONTRACT FEE TYPE

The fee type for this project is Time and Materials at the rates shown in the fee schedule.

CONTRACT TIME

This work will be performed between February 2025 and March 2025.

WORK PLAN

Consor will perform the following Design Process activities. Additional information, assumptions and task requirements are defined under each task.

PROJECT DELIVERY NETWORK DESIGN TASKS

PROJECT KICK-OFF

1R1 – CONFIRM EXISTING CONDITIONS

Consor will conduct a field review of the project area to assess site conditions to discover any changes that may impact the work to be completed as it is currently designed. In addition, we will meet with Eden Valley Trails and governing agencies to discuss the site visit, findings, and set the path forward.

Deliverables:

- List of any changes impacting the current design
- Meeting agenda
- Meeting minutes

Assumptions:

- 2 members of our team will meet on site and for kick-off meeting
- Kick-off meeting will be virtual and last no longer than 1 hour

ADVERTISING PHASE

5Z2 – PREPARE, SUBMIT & PROCESS FOR ADVERTISEMENT

Consor will assess the current design and perform quality checks to ensure the design is complete and meets current design standards. Our engineers will finalize the advertising plans, including reviewing for completeness and clarity and perform an engineers estimate. These files will be submitted to Eden Valley Trails for advertising.

Deliverables:

- Final advertising plans
- Final Engineer's Estimate
- An electronic copy of all Final files will be available upon request.

PROJECT MANAGEMENT

1Z1 – PROJECT OVERSIGHT

Consor’s project manager will oversee project activities and deliverables. Project management activities will include establishing, monitoring, and updating a project schedule; coordinating with Eden Valley Trails and agency resources; providing project updates; tracking the project budget; and invoicing each month for the effort expended during the month.

Deliverables:

- Project Schedule
- Project status meetings, as required
- Monthly invoices

Consor will execute the scope as described above for the following fee:

SUMMARY OF FEES

1. Kick-off	\$2,150.00
2. Advertising Phase	\$ 5,770.00
3. Project Management	\$920.00
4. Direct Costs	\$ 98.00
TOTAL	\$ 8,938.00

The combined project budget for the scope as outlined above is on a Time and Materials fee basis and not to exceed \$8,938.00. If additional meetings, analysis, or work outside this scope become necessary, including further negotiations and any other work elements not explicitly outlined within this scope, as requested by Eden Valley Trails, will require written approval in the form of a change order.

Consor looks forward to completing this project. The cost estimate breakdown is attached. Please give me a call if you have any questions or comments.

Respectfully,

Consor North America, Inc.



Mason Bouck, PE
Division Manager

Burton Wall Finalization
Eden Valley Trails - Alan Wheelwright
Preconstruction Engineering & Design

TASK DESCRIPTION:		PROJECT MANAGER	QC/OA	STRUCTURAL ENGINEER	EIT	HOURS	COST PER TASK
Task 1 Kicoff/Scoping Phase							
1.01	1R1 - Confirm Existing Conditions						
		5	0	4	0	9	\$ 2,150.00
	Task 1 Subtotal	5	0	4	0	9	\$ 2,150.00
Task 2 Advertising Phase							
2.01	5Z2 - Prepare, Submit, & Process for Advertisement						
		2	1	12	16	31	\$ 5,770.00
	Task 2 Subtotal	2	1	12	16	31	\$ 5,770.00
Task 3 Sub Project Management							
3.01	1Z1 - Project Oversight						
		4	0	0	0	4	\$ 920.00
	Task 3 Subtotal	4	0	0	0	4	\$ 920.00
	TOTAL LABOR HOURS	11	1	16	16	44	
	LABOR COSTS	\$ 2,530.00	\$ 230.00	\$ 4,000.00	\$ 2,080.00	\$ 8,840.00	\$ 8,840.00

Direct Costs		Quantity	Unit	Unit Cost	Total Cost	Total Labor Costs	Total Direct Costs
Expense	Milage	140	Miles	\$0.70	\$ 98.00		\$ 98.00
					\$ -		
	Total Sub Consultant				\$ 98.00		
						GRAND TOTAL	\$ 8,938.00

BURTON RETAINING WALL

90% PLANS

January 12, 2021

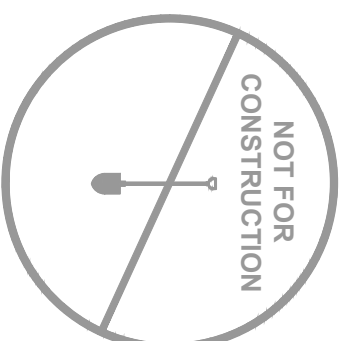
PROJECT
LOCATION



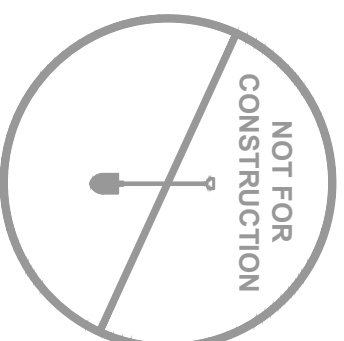
TRAILS FOUNDATION
NORTHERN UTAH
298 24TH STREET SUITE 325
OGDEN, UT 84401



PROJECT MANAGER: _____
ALAN WHEELRIGHT



FOR ALL CIVIL SHEETS



FOR ALL STRUCTURE SHEETS

SHEET INDEX	
SHEET #	SHEET NAME
C00	COVER
1A - 1B	GENERAL NOTES
SC1	SURVEY CONTROL
HC1	HORIZONTAL CONTROL
DT1	DETAILS
RE1	REMOVAL PLAN
C1	SITE PLAN
S-1 - S-8	STRUCTURAL PLANS



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811

THE CONTRACTOR SHALL CAREFULLY READ ALL THE NOTES AND SPECIFICATIONS. THE CONTRACTOR SHALL BE SATISFIED AS TO THE TRUE MEANING AND INTENTION AND SHALL BE RESPONSIBLE FOR COMPLYING WITH EACH.

GENERAL NOTES:

1. ALL WORK TO BE PERFORMED PER PAYSON CITY SPECIFICATIONS AND STANDARDS. IN THE EVENT THAT PAYSON CITY DOES NOT OFFER SPECIFICATIONS FOR THE WORK, THE LATEST APWA STANDARDS SHALL APPLY.
2. IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. THE ENGINEER'S INTERPRETATION THEREOF SHALL BE CONCLUSIVE.
3. WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
4. THE CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR. IT SHALL BE EXPECTED THAT PRICES PROVIDED WITHIN THE CONTRACT DOCUMENTS SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS ON THE NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN PECULIAR AND INHERENT CONDITIONS EXISTENT IN THE CONSTRUCTION OF THE PARTICULAR FACILITIES, WHICH MAY CREATE, DURING THE CONSTRUCTION PROGRAM, UNUSUAL OR PECULIAR UNSAFE CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF ALL PERMITS AND APPROVALS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT THE NECESSARY RIGHTS-OF-WAY, EASEMENTS, AND/OR PERMITS ARE SECURED PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT WHERE APPLICABLE FOR ANY WORK DONE WITHIN RIGHTS-OF-WAY OR EASEMENTS FROM PAYSON CITY 24 HOURS IN ADVANCE OF COMMENCING THE WORK, OR AS REQUIRED BY SAID PERMITS.
7. THE CONTRACTOR SHALL, AT THE TIME OF BIDDING, AND THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF UTAH AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT BID AND TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PLANS AND SPECIFICATIONS.
8. CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO SATISFY THEMSELVES BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS THEY MAY PREFER, OF THE LOCATION OF THE PROPOSED WORK, AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF WORK. IF, DURING THE COURSE OF THEIR EXAMINATION, A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO THEM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, THEY SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING THEIR BID. AWARDED THE CONTRACT TO THE CONTRACTOR AND THE CONTRACTOR SIGNING SAID CONTRACT SHALL CONSTITUTE ACKNOWLEDGEMENT THAT THE CONTRACTOR RELIED AND ARE RELYING ON THEIR OWN EXAMINATION OF (1) THE SITE OF THE WORK, (2) ACCESS TO THE SITE, AND (3) ALL OTHER DATA AND MATTERS REQUISITE TO THE FULFILLMENT OF THE WORK AND ON THEIR OWN KNOWLEDGE OF EXISTING FACILITIES ON AND IN THE VICINITY OF THE SITE OF THE WORK TO BE CONSTRUCTED UNDER THIS CONTRACT. THE INFORMATION PROVIDED BY THE OWNER OR THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTE FOR, OR A SUPPLEMENT TO THE INDEPENDENT VERIFICATION BY THE CONTRACTOR TO THE EXTENT SUCH INDEPENDENT INVESTIGATION OF SITE CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT THEY HAVE NOT RELIED SOLELY UPON OWNER OR ENGINEER FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING THEIR BID.
9. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, SIGNS, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTORS USE DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER, ENGINEER, AND/OR ANY REGULATORY AGENCY.
12. THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, CONTROL POINTS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE.
13. THE CONTRACTOR AGREES THAT:
 - 13.A. THEY SHALL BE RESPONSIBLE TO CLEAN THE JOB SITE AT THE END OF EACH PHASE OF WORK.
 - 13.B. THEY SHALL BE RESPONSIBLE TO REMOVE AND DISPOSE OF ALL TRASH, SCRAP AND UNUSED MATERIAL AT THEIR OWN EXPENSE IN A TIMELY MANNER.
 - 13.C. THEY SHALL BE RESPONSIBLE TO MAINTAIN THE SITE IN A NEAT, SAFE AND ORDERLY MANNER AT ALL TIMES.
 - 13.D. THEY SHALL BE RESPONSIBLE TO KEEP MATERIALS, EQUIPMENT, AND TRASH OUT OF THE WAY OF OTHER CONTRACTORS SO AS NOT TO DELAY THE JOB. FAILURE TO DO SO WILL RESULT IN A DEDUCTION FOR THE COST OF CLEAN UP FROM THE FINAL PAYMENT.
 - 13.E. THEY SHALL BE RESPONSIBLE FOR THEIR OWN SAFETY, TRAFFIC CONTROL, PERMITS, RETESTING AND REINSPECTIONS AT THEIR OWN EXPENSE.
- 13.F. UNLESS OTHERWISE NOTED ALL EXCESS SOILS AND MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY DISPOSED OF OFF SITE AT THE CONTRACTORS' EXPENSE. OWNER MAY DESIGNATE A LOCATION ADJACENT TO WORK FOR STOCKPILING OF EXCESS SOILS.
14. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

15. DUST CONTROL SHALL BE PROVIDED AT ALL TIMES. AT THE CONTRACTORS' EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH APWA SPECIFICATION 01 57 00.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING.
17. FOR ALL WORK WITHIN PUBLIC RIGHTS-OF-WAYS OR EASEMENTS, THE CONTRACTOR SHALL PRESERVE THE INTEGRITY AND LOCATION OF ANY AND ALL PUBLIC UTILITIES AND PROVIDE THE NECESSARY CONSTRUCTION TRAFFIC CONTROL. CONTRACTOR SHALL, THROUGH THE ENCROACHMENT PERMIT PROCESS, VERIFY WITH THE NECESSARY REGULATORY AGENCIES, THE NEED FOR ANY TRAFFIC ROUTING PLAN. IF PLAN IS REQUIRED, CONTRACTOR SHALL PROVIDE PLAN AND RECEIVE PROPER APPROVALS PRIOR TO BEGINNING CONSTRUCTION.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS. ALL TESTING AND INSPECTION SHALL BE PAID FOR BY THE OWNER. ALL RE-TESTING AND/OR RE-INSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.
19. IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT OF EXISTING IMPROVEMENTS. THERE WILL BE NO EXTRA COST DUE TO THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS.
20. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTORS EXPENSE, AFTER PROPER BACKFILLING AND/OR CONSTRUCTION, WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.
21. THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL ROADWAYS, PIPING AND CONDUITS, STRUCTURES AND OTHER FACILITIES.
22. WORK IN EASEMENT AND/OR RIGHTS-OF-WAY IS SUBJECT TO THE APPROVAL AND ACCEPTANCE OF THE REGULATORY AGENCY RESPONSIBLE FOR OPERATION AND/OR MAINTENANCE OF SAID EASEMENT AND/OR RIGHTS-OF-WAY.

CLEARING & GRADING NOTES:

1. CONTRACTOR SHALL PERFORM EARTHWORK IN ACCORDANCE WITH PAYSON CITY (OR APWA) STANDARD SPECIFICATIONS AND THE RECOMMENDED EARTHWORK SPECIFICATIONS FOUND IN THE REPORT OF GEOTECHNICAL INVESTIGATION AVAILABLE FROM THE OWNER.
2. IN THE CASE OF INDIVIDUAL LOT PADS, THE CONTRACTOR SHALL BE RESPONSIBLE TO GRADE, MAINTAIN, AND PROVIDE PROPER DRAINAGE WITHOUT CAUSING SOIL EROSION OR DRAINING ONTO ADJACENT PROPERTY.
3. THE DATA SHOWN IN ANY SOIL REPORTS ARE FOR SUBSURFACE CONDITIONS FOUND AT THE TIME OF THE INVESTIGATION. THE OWNER AND ENGINEER DISCLAIM RESPONSIBILITY FOR THE INTERPRETATION BY THE CONTRACTOR OF DATA, SUCH AS PROJECTION OR EXTRAPOLATION, FROM THE TEST HOLES TO OTHER LOCATIONS ON THE SITE OF THE WORK, SOIL BEARING VALUES AND PROFILES, SOIL STABILITY AND THE PRESENCE, LEVEL AND EXTENT OF UNDERGROUND WATER FOR SUBSURFACE CONDITIONS DURING CONSTRUCTION OPERATIONS.

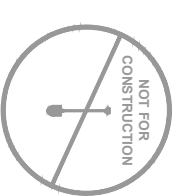
DEWATERING NOTES:

1. THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE AND MAINTAIN ALL MACHINERY, APPLIANCES, AND EQUIPMENT TO MAINTAIN ALL EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION. THE CONTRACTOR SHALL DISPOSE OF THE WATER SO AS NOT TO CAUSE DAMAGE TO PUBLIC OR PRIVATE PROPERTY, OR TO CAUSE A NUISANCE OR MENACE TO THE PUBLIC OR VIOLATE THE LAW. THE DEWATERING SYSTEM SHALL BE INSTALLED AND OPERATED SO THAT THE GROUND WATER LEVEL OUTSIDE THE EXCAVATION IS NOT REDUCED TO THE EXTENT WHICH WOULD CAUSE DAMAGE OR ENDANGER ADJACENT STRUCTURES OR PROPERTY. ALL COST FOR DEWATERING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ALL PIPE CONSTRUCTION. THE STATIC WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF 1 FOOT BELOW THE BOTTOM OF EXCAVATIONS TO MAINTAIN THE UNDISTURBED STATE OF NATURAL SOILS AND ALLOW THE PLACEMENT OF ANY FILL TO THE SPECIFIED DENSITY. THE CONTRACTOR SHALL HAVE WORKMEN EQUIPMENT AND MACHINERY IN GOOD WORKING CONDITION FOR EMERGENCIES AND SHALL HAVE WORKMEN AVAILABLE FOR ITS OPERATION. DEWATERING SYSTEMS SHALL OPERATE CONTINUOUSLY UNTIL BACKFILL HAS BEEN COMPLETED TO 1 FOOT ABOVE THE NORMAL STATIC GROUNDWATER LEVEL.
2. SUMPS SHALL BE NO DEEPER THAN 5 FEET AND SHALL BE AT THE LOW POINT OF EXCAVATION. EXCAVATION SHALL BE GRADED TO DRAIN TO THE SUMPS.
3. THE CONTROL OF GROUNDWATER SHALL BE SUCH THAT SOFTENING OF THE BOTTOM OF EXCAVATIONS, OR FORMATION OF "QUICK" CONDITIONS OR "BOLUS", DOES NOT OCCUR. DEWATERING SYSTEMS SHALL BE DESIGNED AND OPERATED SO AS TO PREVENT REMOVAL OF THE NATURAL SOILS. THE RELEASE OF GROUNDWATER AT ITS STATIC LEVEL SHALL BE PERFORMED IN SUCH A MANNER AS TO MAINTAIN THE UNDISTURBED STATE OF NATURAL FOUNDATIONS SOILS, PREVENT DISTURBANCE OF COMPACTED BACKFILL, AND PREVENT FLOTATION OR MOVEMENT OF STRUCTURES, PIPELINES AND SEWERS. CONTRACTOR SHALL BE RESPONSIBLE FOR NOI, SWPPP AND ALL REGULATORY PERMITTING REQUIRED FOR THE WORK PERFORMED.



PROJECT ENGINEERING CONSULTANTS
986 WEST 9000 SOUTH
WEST JORDAN, UTAH, 84088
OFFICE: 801-495-4240
EMAIL: INFO@PEC.US.COM

**BURTON
RETAINING WALL**
HUNTSVILLE, UT



PK:	LA
DRAWN BY:	DN
CHECKED BY:	BRJ
PLOT DATE:	01-12-2021

01-12-2021

UT 20-077

NO.	REVISION	DATE
1	***	***
2	***	***
3	***	***
4	***	***
5	***	***
6	***	***
7	***	***
8	***	***
9	***	***
10	***	***



(11"x17" SHEET)

**GENERAL
NOTES**



ENGINEER/LANDSCAPE ARCHITECT

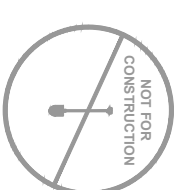
EPPEC

PROJECT ENGINEERING CONSULTANTS
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OFFICE: 801-495-4240
EMAIL: INFO@PEC.US.COM

PROJECT INFORMATION

**BURTON
RETAINING WALL**
HUNTSVILLE, UT

SEAL/STAMP OF APPROVAL



PK:	LA
DRAWN BY:	DN
CHECKED BY:	BRJ
PLOT DATE:	01-12-2021

SUBMISSION DATE

01-12-2021

PROJECT

UT 20-077

NO.	REVISION	DATE
1	***	***
2	***	***
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PLAN INFORMATION



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SHEET NAME

(11"x17" SHEET)
**GENERAL
NOTES**

SHEET NUMBER

1B

SURFACE IMPROVEMENTS:

1. ALL MANHOLE RIMS, LAMPHOLES, VALVES AND MONUMENT BOXES, ETC. SHALL BE ADJUSTED TO FINISH GRADE AFTER SURFACE PAVING, UNLESS OTHERWISE NOTED. COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR SAID FACILITIES.
2. PAYMENT FOR PAVEMENT WILL BE MADE ONLY FOR AREAS SHOWN ON PLANS. REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE SPECIFICATIONS, AND WHICH LIES OUTSIDE OF SAID AREAS, SHALL BE INCLUDED IN THE CONTRACTORS UNIT PRICE FOR PAVEMENT, AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH WORK.
3. STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH PAYSON CITY STANDARDS AND APWA STANDARD SPECIFICATION 09 91 00.

LIST OF ABBREVIATIONS

ABC	AGGREGATE BASE COURSE	PT	POINT OF TANGENCY
ACI	AMERICAN CONCRETE INSTITUTE	PWMT	PAVEMENT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	R	RADIUS
AC	ASPHALTIC CONCRETE	RCP	REINFORCED CONCRETE PIPE
BVC	BEGIN VERTICAL CURVE	REINF	REINFORCING
BW	BOTTOM OF WALL	SHT	SHEET
B.O.	BY OTHERS	SOG	SLAB ON GRADE
B/	BOTTOM OF	SS	SANITARY SEWER
CB	CATCH BASIN	SSMH	SANITARY SEWER MANHOLE
C	CENTERLINE	SD	STORM DRAIN
C TO C	CENTER TO CENTER	SDCB	STORM DRAIN CATCH BASIN
CONC	CONCRETE	TBC	TOP BACK OF CURB
CONTR	CONTRACTOR	TWC	TOP OF CONCRETE
CSK	COUNTERSINK	TW	TOP OF WALL
DIA OR d	DIAMETER	TYP	TYPICAL
D	DIAMETER OF 50% ROCK SIZE	T/	TOP OF
EA	EACH	U.N.O	UNLESS NOTED OTHERWISE
EOA	EDGE OF ASPHALT	UN	UNLESS OTHERWISE NOTED
EOC	EDGE OF CONCRETE	VERT	VERTICAL
EOG	EDGE OF GRAVEL	W	WATER
EQ	EQUAL	WP	WORK POINT
EVC	END VERTICAL CURVE	WW FL	WATERWAY FLOWLINE
EXIST OR EX	EXISTING	#	REBAR SIZE NUMBER
FIN	FINISHED		
FS	FINISHED SURFACE		
GB	GRADE BREAK		
GSN	GENERAL STRUCTURAL NOTES		
HORIZ	HORIZONTAL		
HP	HIGH POINT		
HW	HIGHWATER		
ID	INSIDE DIAMETER		
IR	IRRIGATION		
KSI	KIPS PER SQUARE INCH		
L	LENGTH		
LOD	LIMITS OF DISTURBANCE		
LP	LOW POINT		
MAXMIN	MAXIMUM/MINIMUM		
MFR	MANUFACTURER		
MP	MILE POST		
NTS	NOT TO SCALE		
N/A	NOT APPLICABLE		
OC	ON CENTER		
OD	OUTSIDE DIAMETER		
PC	POINT OF CURVATURE		
PI	POINT OF INTERSECTION		
PP	POLYPROPYLENE PIPE		
PSF	POUNDS PER SQUARE FOOT		

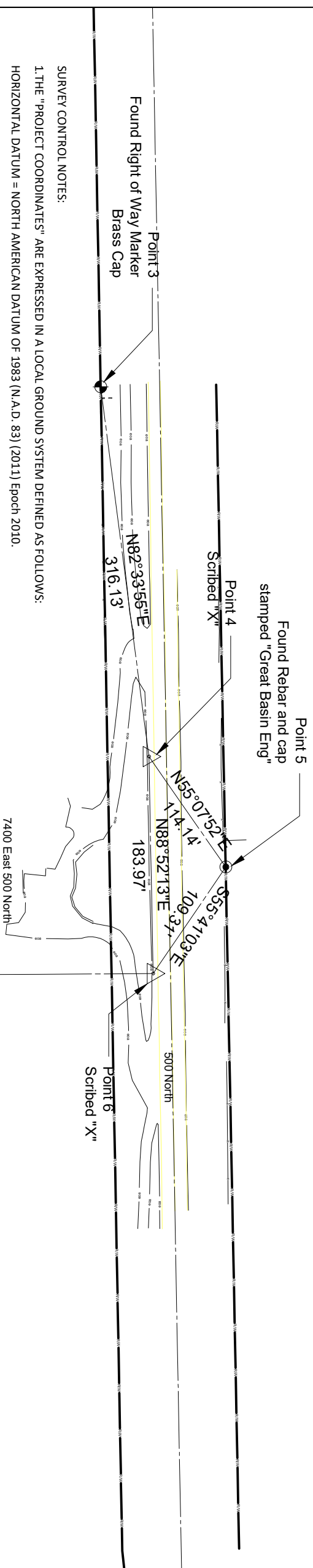
CONSTRUCTION NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH PAYSON CITY AND APWA STANDARDS AND SPECIFICATIONS, IN INSTANCES OF A CONFLICT IN STANDARDS, PAYSON CITY STANDARDS SHALL GOVERN.
2. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT IN PLACE ALL UTILITIES SHOWN OR NOT SHOWN ON THIS PLAN.
3. ALL WATER LINES SHALL BE MINIMUM 48" BELOW FINISHED ASPHALT TO TOP OF PIPE. ALL VALVES AND MANHOLE LIDS SHALL BE ADJUSTED TO FINISH GRADE, AND INSPECTION BY PAYSON CITY BEFORE POURING CONCRETE COLLARS, NO HAND MIXED CONCRETE.
4. ALL IRRIGATION LINES SHALL BE A MINIMUM 24" BELOW FINISHED ASPHALT TO TOP OF PIPE. ALL VALVES AND MANHOLE LIDS SHALL BE ADJUSTED TO FINISH GRADE, AND INSPECTION BY PAYSON CITY BEFORE POURING CONCRETE COLLARS, NO HAND MIXED CONCRETE.
5. CONTRACTOR SHALL ATTEND ALL PRECONSTRUCTION AND CONSTRUCTION CONFERENCES.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL PUBLIC SAFETY AND OSHA STANDARDS.
7. CONTRACTOR SHALL PERFORM WATER LINE TESTING AS REQUIRED BY PAYSON CITY.
8. CONSTRUCTION OF THE WASTEWATER SYSTEM IMPROVEMENTS SHALL CONFORM WITH PAYSON CITY DEVELOPMENT PROCEDURES, DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
9. CONTRACTOR TO FLUSH AND CLEAR PIPES PRIOR TO NOTIFYING DISTRICT THAT SEWER LINES ARE READY FOR INSPECTION AND TESTING. THE CONTRACTOR WILL RUN AN AIR TEST AFTER INSTALLATION, BUT BEFORE PAVING.
10. ALL MANHOLES TO HAVE PLYWOOD INVERT PROTECTORS INSTALLED IMMEDIATELY AFTER AIR TESTING, BUT IN NO CASE, LATER THAN COMMENCEMENT OF STREET SUB-GRADING.
11. CONTRACTOR TO INSTALL TRACER WIRE ON ALL "NON-METALLIC" WATER LINE INSTALLATIONS INCLUDING LATERALS.
12. IF SIGNIFICANT GROUNDWATER IS ENCOUNTERED, ADDITIONAL TRENCH DIKES ON THE WASTEWATER LINE MAY BE REQUIRED.
13. ALL EARTHWORK SHALL BE PLACED AS OUTLINED WITHIN THE GEOTECHNICAL REPORT.
14. ALL ROADWAY MATERIALS SHALL BE COMPACTED AS PER THE GEOTECHNICAL REPORT.

UNDERGROUND UTILITIES:

1. THE INFORMATION SHOWN ON THE PLANS WITH REGARD TO THE EXISTING UTILITIES AND/OR IMPROVEMENTS WAS DERIVED FROM FIELD INVESTIGATIONS AND/OR RECORD INFORMATION. THE ENGINEER DOES NOT GUARANTEE THESE LOCATIONS TO BE EITHER TRUE OR EXACT. PRIOR TO CONSTRUCTION, IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO VERIFY ALL EXISTING IMPROVEMENTS AND TO EXPOSE ALL EXISTING UNDERGROUND UTILITIES RELATED TO THE PROJECT, INCLUDING BUT NOT LIMITED TO, SEWER, STORM DRAIN, WATER, IRRIGATION, GAS, ELECTRICAL, FIBER OPTIC LINES, ETC. AND SHALL NOTIFY THE ENGINEER IN WRITING FORTY-EIGHT (48) HOURS IN ADVANCE OF EXPOSING THE UTILITIES, SO THAT THE EXACT LOCATION AND ELEVATION CAN BE VERIFIED AND DOCUMENTED. THE COST ASSOCIATED TO PERFORM THIS WORK SHALL BE INCLUDED IN EITHER THE LUMP SUM CLEARING COST OR IN THE VARIOUS ITEMS OF WORK, IF LOCATION AND/OR ELEVATION DIFFERS FROM THAT SHOWN ON THE DESIGN PLANS. PROVISIONS TO ACCOMMODATE NEW LOCATION/ELEVATION MUST BE MADE PRIOR TO CONSTRUCTION.
2. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY BLUE STAKES 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK. THE CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT.
3. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 4' OR MORE. FOR EXCAVATIONS 4 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION STANDARDS.
4. PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATIONS, I.E. SEWER, WATER, NATURAL GAS, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING, AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO USE RUBBER GASKET JOINTS ON ALL PRECAST PIPES. THE COST FOR RUBBER GASKET JOINTS SHALL BE INCLUDED IN THE UNIT PRICES OF PIPE.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL PIPE OF ADEQUATE CLASSIFICATION WITH SUFFICIENT BEDDING TO MEET ALL REQUIREMENTS AND RECOMMENDATIONS OF THE APPROPRIATE REGULATORY AGENCY, AS WELL AS THE NEEDS/LOADS OF ANY CONSTRUCTION ACTIVITIES PRIOR TO FULL COVERAGE/FULL BUILD OUT CONDITIONS.
7. SANITARY SEWER AND WATER SYSTEM CONSTRUCTION TO BE INSTALLED PER THE REQUIREMENTS OF PAYSON CITY.
8. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK AND STREET PAVING.

POINT #	LATITUDE	LONGITUDE	STATE PLANE NORTHING	STATE PLANE EASTING	PROJECT NORTHING	PROJECT EASTING	ELEVATION	DESCRIPTION
1	N41°14'58.40303"	W111°46'38.77910"	3614768.079	1564127.305	615824.957	564584.621	4916.61	BRASS CAP
2	N41°14'58.64223"	W111°46'05.19052"	3614784.234	1566692.955	615841.116	567151.021	4905.67	BRASS CAP
3	N41°16'02.99683"	W111°46'17.31635"	3621300.301	1566787.105	622359.088	566244.906	4923.95	BRASS CAP
4	N41°16'03.41054"	W111°46'13.21415"	3621341.195	1566100.485	622399.994	566558.378	4935.06	SCRIBED "X"
5	N41°16'04.05795"	W111°46'11.99081"	3621406.428	1566194.104	622465.247	566662.024	4929.95	REBAR AND CAP
6	N41°16'03.45200"	W111°46'10.80631"	3621344.820	1566284.364	622403.621	566742.311	4937.86	SCRIBED "X"



SURVEY CONTROL NOTES:

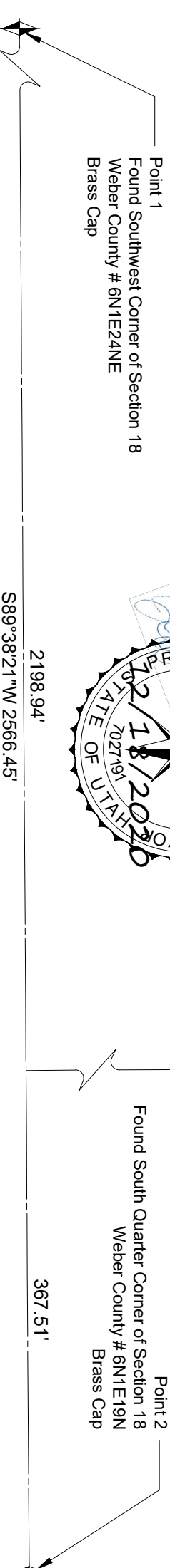
1. THE "PROJECT COORDINATES" ARE EXPRESSED IN A LOCAL GROUND SYSTEM DEFINED AS FOLLOWS:
 HORIZONTAL DATUM = NORTH AMERICAN DATUM OF 1983 (N.A.D. 83) (2011) Epoch 2010.
 VERTICAL DATUM = NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88)
 COORDINATE SYSTEM = US STATE PLANE 1983, UTAH NORTH ZONE (4301) PROJECTED AT GROUND
 GEOID MODEL = GEOID 12B
 UNITS = US SURVEY FOOT
 FALSE NORTHING = -3000000
 FALSE EASTING = -1000000
 COMBINED SCALE FACTOR = 1.0002923777
 CONVERGENCE ANGLE = -0°10'36.40500"

POINTS WERE SCALED FROM COORDINATE 0,0 IN THE NAD 83 US STATE PLANE UTAH NORTH ZONE COORDINATE SYSTEM USING THE COMBINED SCALE FACTOR LISTED ABOVE. THE COMBINED SCALE FACTOR WAS DERIVED FROM A MEAN SCALE FACTOR DERIVED FROM THE SHEETS OF THE PRIMARY CONTROL POINTS COMBINED WITH THE ELEVATION FACTOR DERIVED FROM A MEAN ELEVATION OF THE PRIMARY CONTROL POINTS.

TO CONVERT TO STATE PLANE COORDINATES USE THE FOLLOWING:
 STATE PLANE NORTHING = (PROJECT NORTHING + 3000000)/1.0002923777
 STATE PLANE EASTING = (PROJECT EASTING + 1000000)/1.0002923777

2. THE CONTROL SURVEY WAS PERFORMED IN NOVEMBER 2020. ALL SURVEY CONTROL COORDINATES WERE ESTABLISHED USING THE UTAH REFERENCE NETWORK GLOBAL POSITIONING SYSTEM (TURN GPS).

3. CONTROL POINTS ARE SUBJECT TO THE EFFECTS OF SURFACE ACTIVITY AND SEASONAL MOVEMENTS. MARKS MAY ALSO BE DISTURBED, DAMAGED, OR REMOVED AFTER THE COMPLETION OF THIS SURVEY. CONTROL POINT POSITIONS SHOULD BE FIELD VERIFIED PRIOR TO SUBSEQUENT SURVEY ACTIVITIES.



ENGINEER/LANDSCAPE ARCHITECT

EPPEC

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 EMAIL: INFO@PEC.US.COM

**BURTON
 RETAINING WALL**
 HUNTSVILLE, UT

SEAL/STAMP OF APPROVAL

PL: LA

PH: LA

DRAWN BY: DN

CHECKED BY: BRJ

PLOT DATE: 01-08-2021

SUBMISSION DATE: 01-08-2021 PROJECT #: UT 20-077

NO.	REVISION	DATE
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SHEET NAME: SURVEY CONTROL

(11"x17" SHEET)

SHEET NUMBER: SC1



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PROJECT INFORMATION

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PI:	LA
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PLOT DATE:	01-12-2021



SUBMISSION DATE

01-12-2021

PROJECT #

UT 20-077

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PLAN INFORMATION



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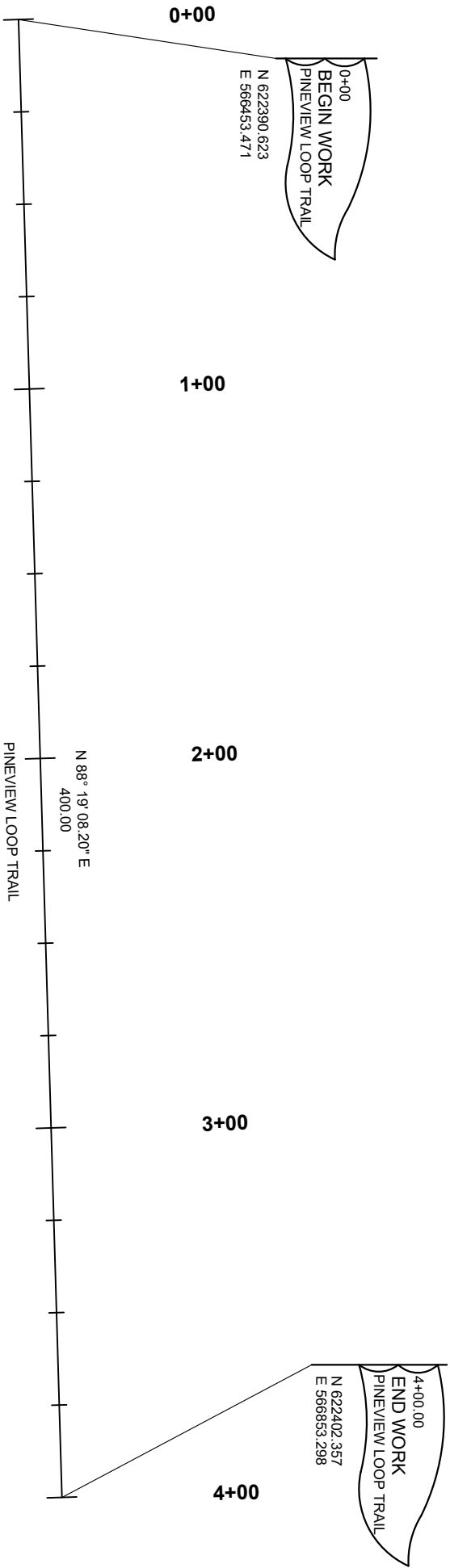
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**HORIZONTAL
CONTROL**

SHEET NUMBER

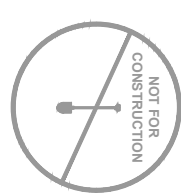
HC1





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 PLOT DATE: 01-12-2021

01-12-2021

UT 20-077

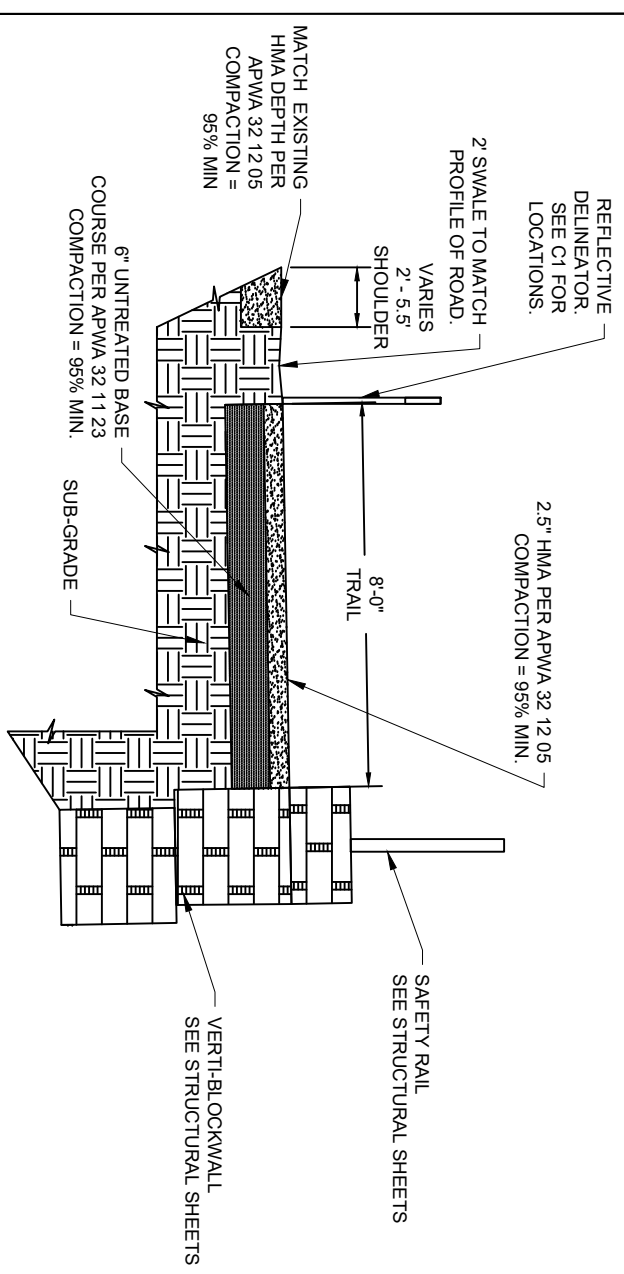
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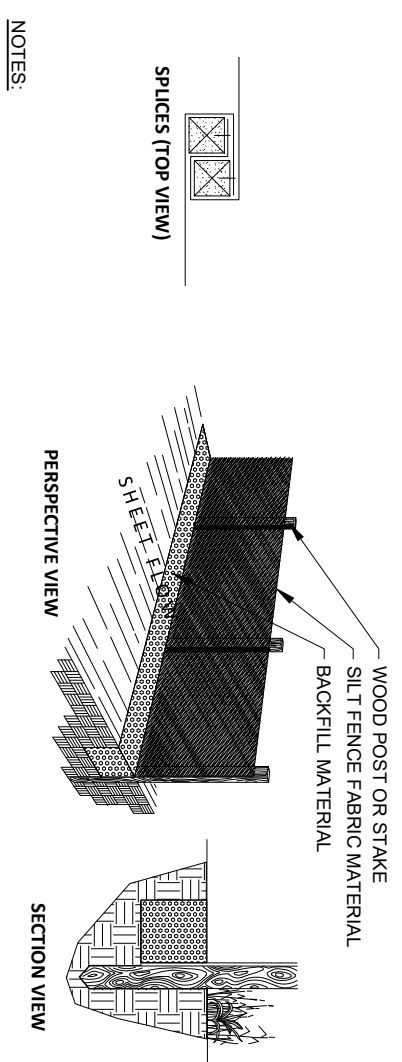
DETAILS

DT1



- NOTES:**
- CLEAR AND GRUB AREA TO REMOVE UNSUITABLE FILL, TOPSOIL, ORGANICS, DEBRIS, AND OTHER DELETERIOUS MATERIAL PRIOR TO PLACEMENT OF SUB-GRADE MATERIAL.
 - PROVIDE SUB-GRADE MATERIAL PER APWA SECTION 31 05 13 COMMON FILL.
 - COMPACT SUB-GRADE TO 90% MINIMUM COMPACTION.
 - PRIOR TO PLACEMENT OF UNTREATED BASE COURSE, PROOF ROLL TRAIL AREA TO IDENTIFY AND REPAIR SOFT AREAS NOT MEETING MINIMUM COMPACTION REQUIREMENTS.

1 TRAIL SECTION
 SCALE: N.T.S.



- NOTES:**
- ALIGN THE FENCE ALONG SITE CONTOURS AS MUCH AS POSSIBLE TO AVOID CREATING LOW POINTS ALONG THE SILT FENCE. PROVIDE AN OPENING IN THE SILT FENCE AND INSTALL A SEDIMENT TRAP WHERE EXCESS RUNOFF WILL ACCUMULATE AT A LOW POINT.
 - WHEN EXCAVATING THE TRENCH, USE MACHINERY THAT WILL MINIMIZE DISTURBANCE.
 - RUN THE ENDS OF THE SILT FENCE UP THE SLOPE TO PREVENT RUNOFF FROM FLOWING AROUND THE ENDS OF THE SILT FENCE.
 - DO NOT PLACE SILT FENCE ACROSS AREAS OF POTENTIALLY CONCENTRATED FLOWS (e.g. PIPE OUTLETS, DRAINAGE CHANNELS, CUT DITCHES).
 - USE AS FEW SPLICES AS POSSIBLE ALONG THE SILT FENCE. WHERE A SPLICE IS REQUIRED, OVERLAP THE END POSTS AND TWIST THEM 180 DEGREES BEFORE STAKING THE END POSTS IN THE GROUND.
 - MAINTAIN A PROPERLY FUNCTIONING SILT FENCE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL DISTURBED AREAS HAVE BEEN VEGETATED.
 - WHEN A STORM EVENT DEPOSIT'S SEDIMENT ALONG THE FENCE, REMOVE THE SEDIMENT AND PLACE IT IN A STABLE AREA APPROVED BY THE ENGINEER.

2 SILT FENCE DETAIL
 SCALE: N.T.S.

UPLAND SEED MIX				
GRASSES/ FORBS	SEED NAME	COMMON NAME	BROADCAST SEED	
			NUMBER SEEDS PER POUND	POUNDS OF PURE LIVE SEED PER ACRE
G	1 <i>Pascopyrum smithii</i>	Western Wheatgrass	110,000	4.50
G	2 <i>Leymus cinereus</i>	Great Basin Wildrye	130,000	3.75
G	3 <i>Sporobolus airoides</i>	Alkali Sacaton	1,758,000	0.50
G	4 <i>Elymus trachycaulus</i> ssp. <i>Trachycaulus</i>	Slender Wheatgrass	159,000	1.50
G	5 <i>Elymus elymoides</i>	Bottlebrush Squirttail	192,000	1.50
F	6 <i>Linum lewisii</i>	Lewis Blue Flax	170,000	2.25
F	7 <i>Sphaeralcea munroana</i>	Munro Globemallow	500,000	0.75
TOTAL POUNDS OF PURE LIVE SEED PER ACRE				14.75
				100%
				72

3 SEED SCHEDULE
 SCALE: N.T.S.

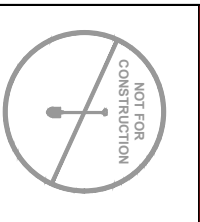


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PROJECT INFORMATION

**BURTON
 RETAINING WALL
 HUNTSVILLE UT**

SEAL/STAMP OF APPROVAL

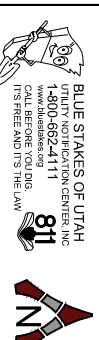


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 P.M.: LA
 DRAWN BY: DN
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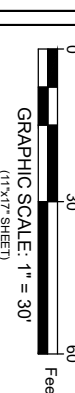
SUBMISSION DATE: 01-12-2021 PROJECT # UT 20-077

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PLAN INFORMATION



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SHEET NAME
**REMOVAL
 PLAN**

SHEET NUMBER

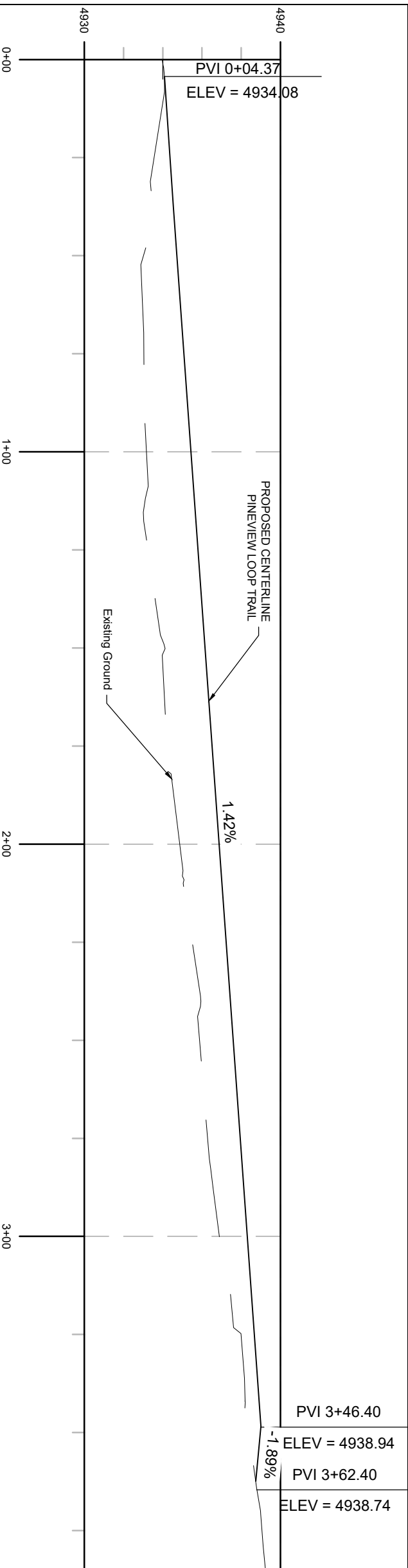
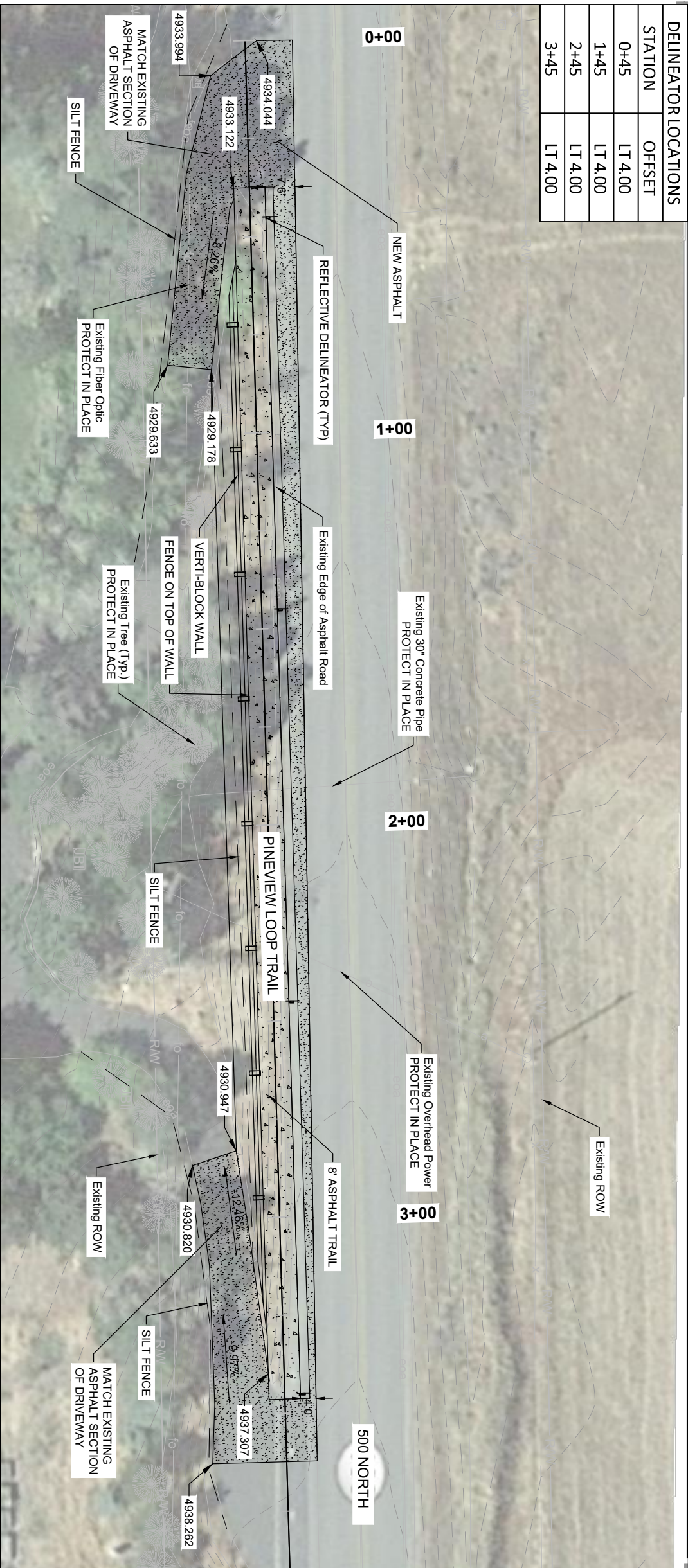
RE1



-  CLEARING AND GRUBBING LIMITS
-  REMOVE ASPHALT

- NOTES:
1. PROTECT IN PLACE ALL UTILITIES.
 2. PROTECT IN PLACE ALL TREES.

STATION	OFFSET
0+45	LT 4.00
1+45	LT 4.00
2+45	LT 4.00
3+45	LT 4.00



NOTES:

1. SEE DT1 FOR SILT FENCE DETAIL AND TRAIL SECTION.
2. INSTALL TOP SOIL AND SEEDING ON ALL DISTURBED AREAS OUTSIDE THE WALL, TRAIL, AND ROAD PER APWA SPECIFICATION 32.93.13 AND THE SEED SCHEDULE ON DT1.

OWNER/CLIENT



ENGINEER/LANDSCAPE ARCHITECT

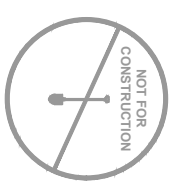


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PROJECT INFORMATION

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 HUNTSVILLE UT**

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PLAN INFORMATION



GRAPHIC SCALE: 1" = 30'
 (11"x17" SHEET)
 Feet

SITE PLAN

SHEET NUMBER

C1

GENERAL STRUCTURAL NOTES

U.O.N. = UNLESS OTHERWISE NOTED
G.S.N. = GENERAL STRUCTURAL NOTES

DIVISION 01: GENERAL REQUIREMENTS

DESIGN DATA

CODES: LOADS: IBC 2018; ASCESSEI 7-16
ACI 318-19
STRUCTURAL STEEL: AISC 360-10; AISC 341-10

SEGMENTAL RETAINING WALL SYSTEM:
NATIONAL CONCRETE MASONRY ASSOCIATION (NOMA) DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS, 3rd EDITION, 5th PRINTING

DEAD LOAD: SEGMENTED BLOCK: 142 PCF
GRANULAR FILL: 110 PCF

LIVE LOAD: SAFETY RAIL: 50 PLF HORIZONTAL (TOP RAIL)
VEHICLE TRAFFIC: 250 PSF SURCHARGE

GROUND SNOW LOAD: 43 PSF

WIND LOAD: NOT APPLICABLE

SEISMIC LOAD: RISK CATEGORY II
DEFAULT ASCE SOIL CLASS D (SECTION 11.4.3)
PGA = 0.628 x 12 = 0.754 (ASCE 7 HAZARDS REPORT)
ALLOWABLE HORIZ WALL DISPLACEMENT = 3 INCHES

SOIL PARAMETERS (PER SOIL TESTING *):
SOIL CLASSIFICATION: GC (CLAYEY GRAVEL WITH SAND)
MAXIMUM DRY DENSITY: 134.6 PCF
OPTIMUM MOISTURE: 8.1%

*PARTICLE SIZE DISTRIBUTION AND COMPACTION TESTING BY PROJECT ENGINEERING CONSULTANTS (PEC) 12-21-2020

SOIL DESIGN VALUES:
ALLOWABLE SOIL BEARING: 2,000 PSF AT 18" BELOW GRADE *
COEFF OF FRICTION: 0.70 (BOTTOM OF WALL / CRUSHED STONE LEVELING PAD)

*ASSUMED IBC PRESUMPTIVE VALUES (TABLE 1806.2 FOR CLASS GW

WALL DESIGN: VERTIBLOCK DESIGN SOFTWARE 5.0.20111.8386

NOTES TO CONTRACTOR

ANY CHANGES TO THE STRUCTURE LAYOUT FROM THESE DRAWINGS SHALL BE SUBMITTED IN WRITING FOR THE ENGINEER'S REVIEW AND APPROVAL 7 DAYS PRIOR TO BEGINNING THE WORK.

THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS BETWEEN THE CONSTRUCTION DRAWINGS AND GENERAL STRUCTURAL NOTES BEFORE PROCEEDING WITH THE WORK.

THE CONTRACTOR SHALL VERIFY ALL EXISTING UNDERGROUND SERVICES THAT INTERFERE WITH THE WORK. EXISTING UNDERGROUND SERVICES SHALL NOT BE DISTURBED OR REMOVED WITHOUT THE APPROVAL OF THE ENGINEER, UNLESS NOTED ON THE DRAWINGS.

THE REMOVAL, CUTTING, DRILLING, ETC., OF EXISTING CONSTRUCTION SHALL BE PERFORMED WITH GREAT CARE IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE EXISTING FACILITIES.

THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, BUT DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE MEANS, METHODS AND TECHNIQUES OF CONSTRUCTION, AND THE ASSOCIATED SAFETY PRECAUTIONS, ARE THE RESPONSIBILITIES OF THE CONTRACTOR.

THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT BUILDING ELEMENTS AND OTHER STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS IMPOSED DURING CONSTRUCTION, INCLUDING CONSTRUCTION EQUIPMENT.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE CHANGES NECESSARY TO IMPLEMENT THE OPTION, AND SHALL COORDINATE ALL DETAILS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ADDITIONAL DESIGN OR REVIEW WORK BY THE ENGINEER DUE TO SELECTION OF AN OPTION BY THE CONTRACTOR, OR DUE TO ERRORS OR OMISSIONS IN CONSTRUCTION BY THE CONTRACTOR.

SUBMITTALS

A. SHOP DRAWINGS:

1. NONWOVEN GEOTEXTILE FILTER FABRIC
2. CONSTRUCTION ADHESIVE
2. STEEL EMBED PLATES
3. SAFETY RAILS
4. SEGMENTAL RETAINING WALL - BACKFILL MATERIAL AND CLEAN GRAVEL
5. UNDER FOOTING - GRANULAR STRUCTURAL IMPORTED FILL MATERIAL

SHOP DRAWINGS SHALL BE SUBMITTED TO FMMI AND ENGINEER FOR REVIEW PRIOR TO COMPONENT FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION TO THE ENGINEER.

B. MIX DESIGNS AND/OR SPECIFICATIONS:

CONCRETE SHOTCRETE AND ASPHALT MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW A MINIMUM OF ONE WEEK PRIOR TO THE FIRST FIELD DELIVERY.

C. REPORTS AND CERTIFICATIONS:

1. TEST REPORTS AND LETTER OF CERTIFICATION FOR COMPLETE PENETRATION WELDS
2. INSPECTION REPORTS FOR FIELD BOLTING
3. INSPECTION REPORTS FOR FIELD BOLTING

D. MATERIALS SPECIFIED IN OTHER SECTIONS:

ALL REPORTS AND CERTIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

MATERIAL TESTING SERVICES

- A. CONCRETE TESTS: PER APWA SECTION 03 30 05

DIVISION 03: CONCRETE

COMPLY WITH ALL APPLICABLE PORTION OF APWA DIVISION 03, AND AS NOTED BELOW:

CONCRETE FORMING: PER APWA 03 11 00
CONCRETE PLACEMENT: PER APWA 03 30 10
CONCRETE FINISHING: PER APWA 03 35 00
CONCRETE CURING: PER APWA 03 39 00
CONCRETE: PER APWA 03 30 04, CLASS 4000 (AE)
REINFORCING: PER APWA 03 20 00, ASTM A615 (S1) GRADE 80
WELDED WIRE FABRIC (WWF) PER ASTM A186

DIVISION 05: METALS

COMPLY WITH ALL APPLICABLE PORTION OF APWA DIVISION 05, AND AS NOTED BELOW:

MATERIALS
PLATES AND BARS: PER ASTM A36 (Fy = 36 KSI)
STANDARD STEEL PIPE: PER ASTM A53, GRADE B (Fy = 35 KSI)

FABRICATION AND ERECTION
FABRICATION AND ERECTION OF STEEL SHAPES AND PLATES SHALL CONFORM TO AISC MANUAL OF STEEL CONSTRUCTION. DETAILING OF STEEL SHAPES SHALL BE PER AISC STRUCTURAL STEEL DETAILING, COPEES, BLOCKS, & CUTS. ALL RE-ENTRANT CORNERS SHALL BE SHAPED, NOTCH-FREE, TO A RADIUS OF AT LEAST 1/2".

WELDING

WELDING OF STRUCTURAL STEEL SHALL CONFORM TO AWS D1.1 WITH ELECTRODES CONFORMING TO AWS A5.1, E-70 SERIES. ALL WELDING SHALL BE COMPLETED BY WELDERS CURRENTLY CERTIFIED FOR THE TYPES OF WELDS SPECIFIED.

BOLTING
STEEL BOLTS: PER ASTM A307

PAINTING OF METAL SURFACES

PAINT ALL STRUCTURAL STEEL WITH ONE SHOP COAT PRIMER OVER CLEAN METAL EXCEPT WHERE STRUCTURAL STEEL IS TO BE PERMANENTLY IN CONTACT WITH CONCRETE. PAINT SAFETY RAILS WITH TWO SHOP COATS OF ALKALYD ENAMEL FINISH OVER PRIMER "SAFETY YELLOW".

DIVISION 31: EARTHWORK

[PROJECT HAS NO SOILS REPORT]

SEGMENTAL WALL LEVELING PAD SHALL BEAR ON UNDISTURBED NATIVE SOIL OR COMPACTED FILL, PLACED AND COMPACTED IN ACCORDANCE WITH THE FOLLOWING PARAGRAPHS:

THE EXPOSED UPPERMOST SOILS TO RECEIVE FILL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO 95 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D698. FILL MATERIAL SHALL BE CLEAN NON-PLASTIC SOILS MEETING THE FOLLOWING GRADATION PER ASTM C-136:

SIEVE SIZE (SQUARE OPENINGS)	PERCENT PASSING
1 1/8 INCH	100
1/4 INCH	38-70
NO. 200	0-12

FILL MATERIAL SHALL BE COMPACTED IN 8 INCH LIFTS TO 96 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D698. ALL WORK SHALL BE REVIEWED BY A SOILS ENGINEER REGISTERED IN THE STATE OF ARIZONA.

ALL LOOSE MATERIAL SHALL BE REMOVED FROM SURFACES TO RECEIVE SEGMENTAL WALLS. EXCAVATIONS SHALL BE TO NEAT LINES OF WALLS.

RETAINING WALL BACKFILL MATERIAL, CLEAN GRAVEL, AND COMPACTION SHALL BE AS APPROVED BY THE ENGINEER.

CRUSHED STONE FOR THE LEVELING PAD SHALL BE GRADED AS APPROVED BY THE ENGINEER. NONWOVEN FILTER FABRIC SHALL BE PER APWA 31 05 19, CLASS A DRAINAGE GEOTEXTILE

OWNER/CLIENT



ENGINEER LANDSCAPE ARCHITECT



PROJECT ENGINEERING CONSULTANTS
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WEST JORDAN, UTAH, 84088
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PROJECT INFORMATION

**BURTON
RETAINING WALL**
HUNTSVILLE, UT

SEAL/STAMP OF APPROVAL

PK: LA
DRAWN BY: JB

**Preliminary
Not For**

Construction

1-12-2021

PLAT DATE:
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PLAN INFORMATION



SHEET NAME
(11"x17" SHEET)

**GENERAL
STRUCTURAL
NOTES (G.S.N.)**

SHEET NUMBER

S-1

GENERAL STRUCTURAL NOTES (Cont.)

DIVISION 32. CONCRETE SEGMENTAL RETAINING WALL SYSTEM (SRW)

DESCRIPTION

THIS WORK INCLUDES FURNISHING AND INSTALLING SEGMENTAL RETAINING WALL UNITS TO THE LINES AND GRADES DESIGNATED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE ARCHITECT/ENGINEER. ALSO INCLUDED IS FURNISHING AND INSTALLING APURTENANT MATERIALS REQUIRED FOR CONSTRUCTION OF THE RETAINING WALL AS SHOWN ON THE CONSTRUCTION DRAWINGS.

SUBMITTALS

MATERIAL SUBMITTALS: THE CONTRACTOR SHALL SUBMIT MANUFACTURERS' CERTIFICATIONS TWO WEEKS PRIOR TO START OF WORK STATING THAT THE SRW UNITS MEET THE REQUIREMENTS OF OF THE MATERIALS SPECIFICATION BELOW.

SHOP DRAWINGS: RETAINING WALL SYSTEM DESIGN, INCLUDING WALL ELEVATION VIEWS, PERTINENT DETAILS, AND DRAINAGE PROVISIONS. THE SHOP DRAWINGS SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF UTAH.

DESIGN CALCULATIONS: ENGINEERING DESIGN CALCULATIONS PREPARED IN ACCORDANCE WITH THE NCM DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS. ANALYSIS OF GLOBAL STABILITY SHALL BE ADDRESSED AND INCORPORATED INTO THE SHOP DRAWINGS WHEN REQUIRED.

DELIVERY, STORAGE AND HANDLING

THE CONTRACTOR SHALL INSPECT THE MATERIALS UPON DELIVERY TO ASSURE THAT PROPER TYPE AND GRADE MATERIAL HAS BEEN RECEIVED.

THE CONTRACTOR SHALL STORE AND HANDLE MATERIALS IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

THE CONTRACTOR SHALL PROTECT THE MATERIALS FROM DAMAGE. DAMAGED MATERIAL SHALL NOT BE INCORPORATED INTO THE SEGMENTAL RETAINING WALL.

MATERIALS

CONCRETE WALL UNITS: SRW CONCRETE UNITS SHALL BE VERTI-BLOCK UNITS AS MANUFACTURED BY VERTICRETE (OR APPROVED EQUAL).

- VERTI-BLOCK UNITS SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE OF EQUAL TO 4,000 PSI (OR GREATER IF SPECIFIED).
- VERTI-BLOCK UNITS SHALL SATISFY THE FOLLOWING DIMENSIONAL TOLERANCES:
HEIGHT: +/- .18 INCH WIDTH: +/- .12 INCH
DEPTH: +/- .12 INCH ; EXCLUDES VARIABLE DEPTH OF THE TEXTURED FACE
- COLOR FOR THE VERTI-BLOCK UNITS SHALL BE SELECTED BY THE PROJECT OWNER. ASTM C 866 FOR FREEZE-THAW DURABILITY SHALL BE STANDARD FOR AREAS SUBJECT TO REPEATED FREEZE-THAW CYCLES, OR AN APPROVED DOT MIX DESIGN SHALL BE USED.
- THE VERTI-BLOCK 24 UNITS SHALL HAVE A FACE AREA OF 8 SQ FT AND VERTI-BLOCK 14 UNITS SHALL HAVE A FACE AREA OF 4 SQ FT.
- THE VERTI-BLOCK STANDARD UNIT WEIGHT (WITHOUT GRAVEL INFILL) IS APPROXIMATELY 1700 LBS.
- THE VERTI-BLOCK UNITS SHALL BE SOUND AND FREE OF CRACKS, CHIPS OR OTHER DEFECTS THAT MAY PREVENT THE CONTRACTOR FROM PROPERLY INSTALLING THE WALL UNITS OR REDUCE THE LONG TERM STRENGTH OF THE WALL STRUCTURE. CONCRETE SAMPLE IN ACCORDANCE WITH AASHTO T-141, COMPRESSION TEST IN ACCORDANCE WITH AASHTO T-23 AND AASHTO T-22. AIR CONTENT TESTING IN ACCORDANCE WITH AASHTO T-152 OR AASHTO T-196 . SLUMP TEST IN ACCORDANCE WITH AASHTO T-119. 28 DAY TESTING IN ACCORDANCE WITH AASHTO T-23 AND AASHTO T-22 OR AS SPECIFIED BY THE PROJECT ENGINEER.
- LEVELING BASE: MATERIAL SHALL CONSIST OF COMPACTED, WELL-GRADED 3/4" MINUS CRUSHED STONE AS SHOWN ON THE CONSTRUCTION DRAWINGS.

WALL DRAINAGE BACKFILL: MATERIAL SHALL CONSIST OF COMPACTED AASHTO #57 STONE OR CLEAN CRUSHED STONE MEETING THE FOLLOWING GRADATION AS DETERMINED IN ACCORDANCE WITH ASTM D 422:

SEIVE SIZE	PERCENT PASSING
1 INCH	100
3/4 INCH	75 TO 100
NO. 4	0 TO 80
NO. 40	0 TO 50
NO. 200	0 TO 5

RETAINED SOIL: UNDISTURBED RESIDUAL SOILS OR COMPACTED RETAINED FILL. RETAINED FILL SHALL BE COMPACTED TO A MINIMUM 95% OF THE STANDARD PROCTOR DENSITY (OR AS DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER). THE SOILS SHOULD BE COMPACTED IN NO MORE THAN 8 INCH COMPACTED LIFT THICKNESS. USCS SOIL TYPE SM OR COARSER, WITH A GRADATION AND MAXIMUM PARTICLE SIZE THAT SUPPORTS THE COLLECTION OF COMPACTION TESTING DATA. WHERE SLOPES ARE PRESENT ABOVE THE WALL, THE SLOPE SOIL SHOULD BE COMPACTED WITH THE SAME EFFORT AS THE RETAINED SOIL.

SEPARATION (FILTER) FABRIC: APPROVED 16 OZ NON-WOVEN GEOTEXTILE SPECIFICALLY MANUFACTURED FOR SUBSURFACE DRAINAGE APPLICATIONS.

DESIGN PARAMETERS: MATERIALS MEETING THE REQUIREMENTS IN SECTION 2.01, AND THE DESIGN CRITERIA SUMMARIZED SEPARATELY ON THIS SHEET.

CONSTRUCTION ADHESIVE: EXTERIOR GRADE ADHESIVE AS RECOMMENDED BY THE RETAINING WALL UNIT MANUFACTURER.

CONSTRUCTION

EXAMINATION

1. THE QUALITY ASSURANCE REPRESENTATIVE SHALL EXAMINE THE AREAS AND CONDITIONS UNDER WHICH THE RETAINING WALL SYSTEMS IS TO BE ERRECTED AND NOTIFY THE ENGINEER, OWNER, AND CONTRACTOR IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

2. PROMPTLY NOTIFY THE WALL DESIGN ENGINEER OF SITE CONDITIONS WHICH MAY AFFECT WALL PERFORMANCE. SOIL CONDITIONS OBSERVED OTHER THAN THOSE ASSUMED, OR OTHER CONDITIONS THAT MAY REQUIRE A REEVALUATION OF THE WALL DESIGN.

3. VERIFY THE LOCATION OF EXISTING STRUCTURES AND UTILITIES PRIOR TO EXCAVATION.

EXCAVATION

1. CONTRACTOR SHALL EXCAVATE TO THE LINES AND GRADES SHOWN ON THE PROJECT GRADING PLANS. CONTRACTOR SHALL TAKE PRECAUTIONS TO MINIMIZE OVER-EXCAVATION. OVER-EXCAVATION SHALL BE FILLED WITH COMPACTED STRUCTURAL BACKFILL MATERIAL OR LEAN CONCRETE, OR AS DIRECTED BY THE ENGINEER/ARCHITECT.

2. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING STRUCTURES AND UTILITIES PRIOR TO EXCAVATION. CONTRACTOR SHALL ENSURE ALL SURROUNDING STRUCTURES ARE PROTECTED FROM THE EFFECTS OF WALL EXCAVATION. EXCAVATION SUPPORT, IF REQUIRED, IS THE RESPONSIBILITY OF THE CONTRACTOR.

FOUNDATION PREPARATION

1. EXCAVATE LEVELING PAD AND AGGREGATE DRAINAGE ZONE FOUNDATION SOIL AS REQUIRED FOR FOOTING OR BASE DIMENSION SHOWN ON THE DRAWINGS. OR AS DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER.

2. PRIOR TO THE PLACEMENT OF THE LEVELING PAD, THE PROJECT GEOTECHNICAL ENGINEER WILL VISUALLY EXAMINE AND PROBE THE FOUNDATION SOIL TO ENSURE THAT THE ACTUAL FOUNDATION SOIL STRENGTH MEETS OR EXCEEDS THAT INDICATED ON THE DRAWINGS. REMOVE SOIL NOT MEETING THE REQUIRED STRENGTH. OVERSIZE RESULTING SPACE SUFFICIENTLY FROM THE FRONT OF THE BLOCK TO THE BACK OF THE REINFORCEMENT, AND BACKFILL WITH SUITABLE COMPACTED BACKFILL SOILS OR LEAN CONCRETE.

3. THE PROJECT GEOTECHNICAL ENGINEER WILL DETERMINE IF THE FOUNDATION SOILS WILL REQUIRE SPECIAL TREATMENT OR CORRECTION TO CONTROL TOTAL AND DIFFERENTIAL SETTLEMENT.

LEVELING PAD PREPARATION

1. PLACE LEVELING PAD AND GEOTEXTILE TO THE DEPTHS AND WIDTHS SHOWN ON THE DRAWINGS. UPON UNDISTURBED SOILS, OR FOUNDATION SOILS PREPARED IN ACCORDANCE WITH THE G.S.N.

2. EXTEND THE LEVELING PAD LATERALLY AT LEAST 6 INCHES IN FRONT AND BEHIND THE LOWERMOST CONCRETE RETAINING WALL UNIT OR AS SPECIFIED IN THE RETAINING WALL DRAWINGS.

3. PROVIDE 6 INCHES OF COMPACTED 2A STONE AS INDICATED ON THE PLANS.

4. PREPARE LEVELING PAD TO ENSURE COMPLETE CONTACT WITH RETAINING WALL UNITS. GAPS ARE NOT ALLOWED.

FOUNDATION PREPARATION

1. EXCAVATE LEVELING PAD AND AGGREGATE DRAINAGE ZONE FOUNDATION SOIL AS REQUIRED FOR FOOTING OR BASE DIMENSION SHOWN ON THE DRAWINGS. OR AS DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER.

2. PRIOR TO THE PLACEMENT OF THE LEVELING PAD, THE PROJECT GEOTECHNICAL ENGINEER WILL VISUALLY EXAMINE AND PROBE THE FOUNDATION SOIL TO ENSURE THAT THE ACTUAL FOUNDATION SOIL STRENGTH MEETS OR EXCEEDS THAT INDICATED ON THE DRAWINGS. REMOVE SOIL NOT MEETING THE REQUIRED STRENGTH. OVERSIZE RESULTING SPACE SUFFICIENTLY FROM THE FRONT OF THE BLOCK TO THE BACK OF THE REINFORCEMENT, AND BACKFILL WITH SUITABLE COMPACTED BACKFILL SOILS OR LEAN CONCRETE.

3. THE PROJECT GEOTECHNICAL ENGINEER WILL DETERMINE IF THE FOUNDATION SOILS WILL REQUIRE SPECIAL TREATMENT OR CORRECTION TO CONTROL TOTAL AND DIFFERENTIAL SETTLEMENT.

LEVELING PAD PREPARATION

1. PLACE LEVELING PAD AND GEOTEXTILE TO THE DEPTHS AND WIDTHS SHOWN ON THE DRAWINGS. UPON UNDISTURBED SOILS, OR FOUNDATION SOILS PREPARED IN ACCORDANCE WITH SECTION 3.03.

2. EXTEND THE LEVELING PAD LATERALLY AT LEAST 6 INCHES IN FRONT AND BEHIND THE LOWERMOST CONCRETE RETAINING WALL UNIT OR AS SPECIFIED IN THE RETAINING WALL DRAWINGS.

3. PROVIDE 6 INCHES OF COMPACTED 2A STONE AS INDICATED ON THE PLANS.

4. PREPARE LEVELING PAD TO ENSURE COMPLETE CONTACT WITH RETAINING WALL UNITS. GAPS ARE NOT ALLOWED.

SRW PLACEMENT

1. GENERAL: ERECT UNITS IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS, AND AS SPECIFIED HEREIN.

2. PLACE FIRST COURSE OF CONCRETE WALL UNITS ON THE PREPARED BASE MATERIAL. CHECK UNITS FOR LEVEL AND ALIGNMENT. MAINTAIN THE SAME ELEVATION AT THE TOP OF EACH UNIT FOR EACH BASE COURSE LEVEL.

3. ENSURE THAT FOUNDATION UNITS ARE IN FULL CONTACT WITH THE LEVELING PAD. PLACE CONCRETE WALL UNITS SIDE-BY-SIDE FOR FULL LENGTH OF WALL ALIGNMENT. ALIGNMENT MAY BE DONE BY USING A STRING LINE MEASURED FROM THE BACK OF THE BLOCK. GAPS ARE NOT ALLOWED BETWEEN THE FOUNDATION CONCRETE WALL UNITS. THE SECOND COURSE OF UNITS SHALL HAVE THE CONCRETE CONNECTING LUGS IN THE UNIT VOIDS AND PULLED BACKWARD RESTING THE LUGS AGAINST THE FRONT EDGE OF THE UPPER UNIT VOIDS.

4. PLACE DRAINAGE AGGREGATE BETWEEN, AND DIRECTLY BEHIND THE CONCRETE WALL UNITS. SPREAD DRAINAGE AGGREGATE IN UNIFORM LIFTS NOT EXCEEDING 12 INCHES. EMPLOY METHODS OF LIGHTWEIGHT COMPACTION EQUIPMENT THAT WILL NOT DISRUPT THE STABILITY OR BATTER OF THE WALL OR DAMAGE LINER SYSTEMS. VIBRATORY HAND-OPERATED PLATE COMPACTION EQUIPMENT SHALL BE USED DIRECTLY BEHIND AND WITHIN 3-FEET OF THE WALL TO ACHIEVE CONSOLIDATION. PROVIDE THE DRAINAGE ZONE BEHIND THE WALL UNITS TO WITHIN 8 INCHES OF THE FINAL GRADE. CAP THE DRAINAGE AGGREGATE ZONE WITH GRADED AGGREGATE AS SHOWN ON THE PLANS.

5. PLACE AND COMPACT ANY REQUIRED BACKFILL SOILS IN MAXIMUM 12-INCH LIFTS PER THE G.S.N.

6. REMOVE EXCESS FILL FROM TOP OF UNITS AND INSTALL NEXT COURSE.

7. CHECK EACH COURSE FOR LEVEL AND ALIGNMENT. ADJUST UNITS AS NECESSARY TO MAINTAIN LEVEL AND ALIGNMENT PRIOR TO PROCEEDING WITH EACH ADDITIONAL COURSE.

8. INSTALL EACH SUCCEEDING COURSE. BACKFILL WITH DRAINAGE AGGREGATE AS EACH COURSE IS COMPLETED. INTERLOCK WALL SEGMENTS THAT MEET AT CORNERS BY OVERLAPPING SUCCESSIVE COURSES.

9. INSTALL CAP BLOCK ON BLOCK BELOW WITH CONSTRUCTION ADHESIVE PER MANUFACTURERS' RECOMMENDATIONS.

OWNER/CLIENT



ENGINEER/LANDSCAPE ARCHITECT



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PROJECT INFORMATION

BURTON
RETAINING WALL
HUNTSVILLE, UT

SEAL/STAMP OF APPROVAL

PK: LA
PLOT: LA
DRAWN BY: JIB

Preliminary
Not For
Construction

1-12-2021

CHECKED BY: _____
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PLAN INFORMATION



SHEET NAME (11"x17" SHEET)

GENERAL
STRUCTURAL
NOTES (G.S.N.)

SHEET NUMBER

S-2

GENERAL STRUCTURAL NOTES (Cont.)

CONSTRUCTION ADJACENT TO COMPLETED WALL

1. THE OWNER OR OWNER'S REPRESENTATIVE IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION ADJACENT TO THE WALL BY OTHERS DOES NOT DISTURB THE WALL OR PLACE TEMPORARY CONSTRUCTION LOADS ON THE WALL THAT EXCEED DESIGN LOADS, INCLUDING LOADS SUCH AS WATER PRESSURE, TEMPORARY GRADES, OR EQUIPMENT LOADINGS.
2. THE WALL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WALL CONSTRUCTION WITH OTHER SITE IMPROVEMENTS (CONTRACTORS) THAT MAY ENDOUR UPON RETAINING WALL ELEMENTS.
3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SRW INSTALLER OF WORK OCCURRING ON OR WITHIN THE WALL REINFORCED ZONE AFTER THE CONCLUSION OF WALL CONSTRUCTION.
4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT SURFACE WATER RUNOFF FROM ADJACENT CONSTRUCTION AREAS IS NOT ALLOWED TO ENTER THE RETAINING WALL AREA OF THE CONSTRUCTION SITE.

SAFETY RAILING INSTALLATION

1. FOR INSTALLATION OF THE SAFETY RAILING POSTS (8'-0" O.C.), THE CAP BLOCKS SHALL BE CORE DRILLED CENTERED OVER THE TOP COURSE (2-SIDED VARIABLE CURVE BLOCKS) END VOIDS PER THE PLANS.
2. SECURE THE PIPE SLEEVES AS REQUIRED TO MAINTAIN PLUMB DURING AND AFTER CONCRETE INFILL GROUTING.
3. FIELD VERIFY EXACT LOCATIONS OF THE PIPE SLEEVES PRIOR TO FABRICATION OF THE SAFETY RAILING.

FIELD QUALITY ASSURANCE

1. THE OWNER SHALL ENGAGE A QUALIFIED CONSTRUCTION TESTING FIRM TO PROVIDE QUALITY ASSURANCE DURING RETAINING WALL CONSTRUCTION. THE BEST WAY TO REDUCE THE RISK OF DEVIATIONS FROM THIS DESIGN, AND TO ACHIEVE A RELIABLE EVALUATION OF THE CONTRACTORS ADHERENCE TO THESE PLANS AND SPECIFICATIONS IS TO ENGAGE THE ENGINEERING FIRM THAT PREPARED THIS PLANS SET (GILMORE & ASSOCIATES, INC.) TO PROVIDE FULL-TIME CONSTRUCTION OBSERVATION AND TESTING SERVICES. NEITHER THE PRESENCE NOR ABSENCE OF QUALITY ASSURANCE BY THE OWNER SHALL RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR MEETING THE PROJECT SPECIFICATIONS.
2. QUALITY ASSURANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, EVALUATION OF FOUNDATION SOIL BEARING CONDITIONS; VERIFICATION OF GEOTECHNICAL DESIGN PARAMETERS; AND VERIFICATION THAT CONSTRUCTION IS IN GENERAL COMPLIANCE WITH THE DESIGN DRAWINGS AND PROJECT SPECIFICATIONS.
3. ONLY QUALIFIED AND EXPERIENCED FIELD REPRESENTATIVES AND ENGINEERS SHALL PERFORM CONSTRUCTION OBSERVATION AND TESTING SERVICES.
4. IF NOT CONDUCTED BY GILMORE & ASSOCIATES, INC., DOCUMENTATION OF COMPLETED QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES, INCLUDING TESTING RESULTS, SHALL BE FORWARDED TO G&A FOLLOWING WALL CONSTRUCTION. THIS DOCUMENTATION SHALL INCLUDE A COVER LETTER, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER STATING THAT WALL CONSTRUCTION WAS COMPLETED IN ACCORDANCE WITH THESE DESIGN DRAWINGS.

OWNER/CLIENT



ENGINEER/LANDSCAPE ARCHITECT



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HUNTSVILLE, UT

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PK: _____
LA _____

DRAWN BY:
JB

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PLAN INFORMATION



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SHEET NAME

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**GENERAL
STRUCTURAL
NOTES (G.S.N.)**

SHEET NUMBER

S-3



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PR:	LA
PK:	LA
DRAWN BY:	JB
CHECKED BY:	

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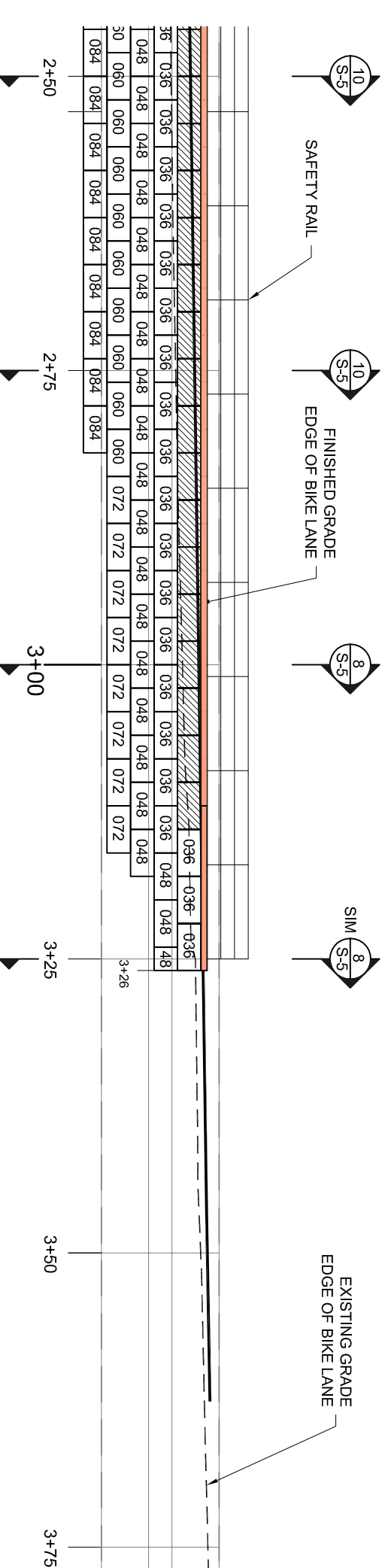
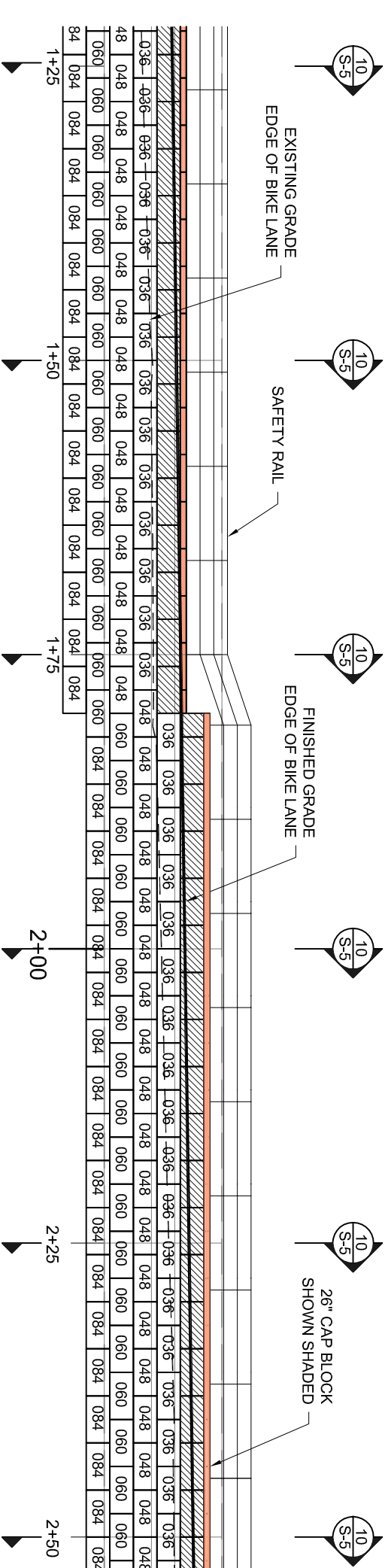
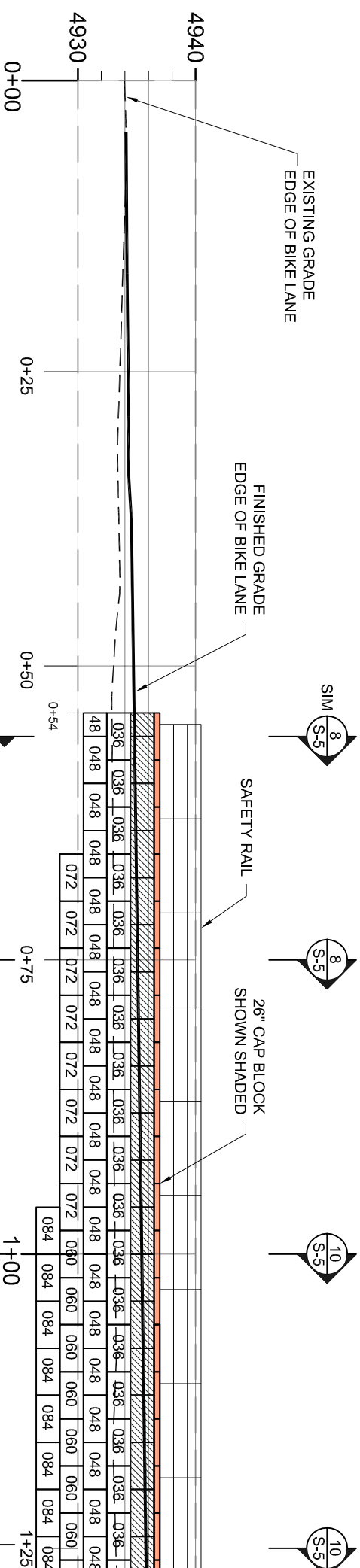
PLAN INFORMATION

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SHEET NAME (11"x17" SHEET)
**WALL
 ELEVATIONS**

SHEET NUMBER

S-4





PROJECT ENGINEERING CONSULTANTS
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 HUNTSVILLE, UT

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Pr: LA
 Pk: LA
 DRAWN BY: JB
 CHECKED BY:

**Preliminary
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PLT DATE:
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PLAN INFORMATION

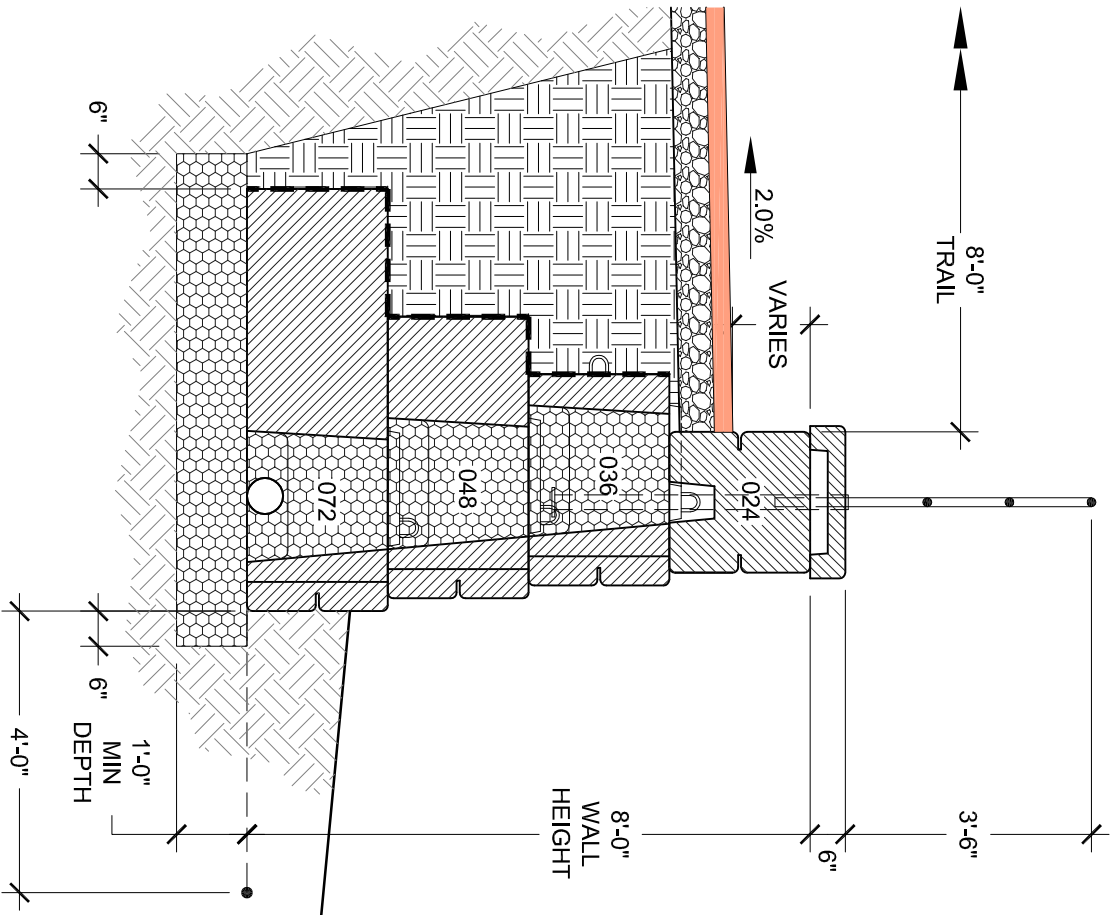


SHEET NAME: (11"x17" SHEET)

**WALL
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SHEET NUMBER

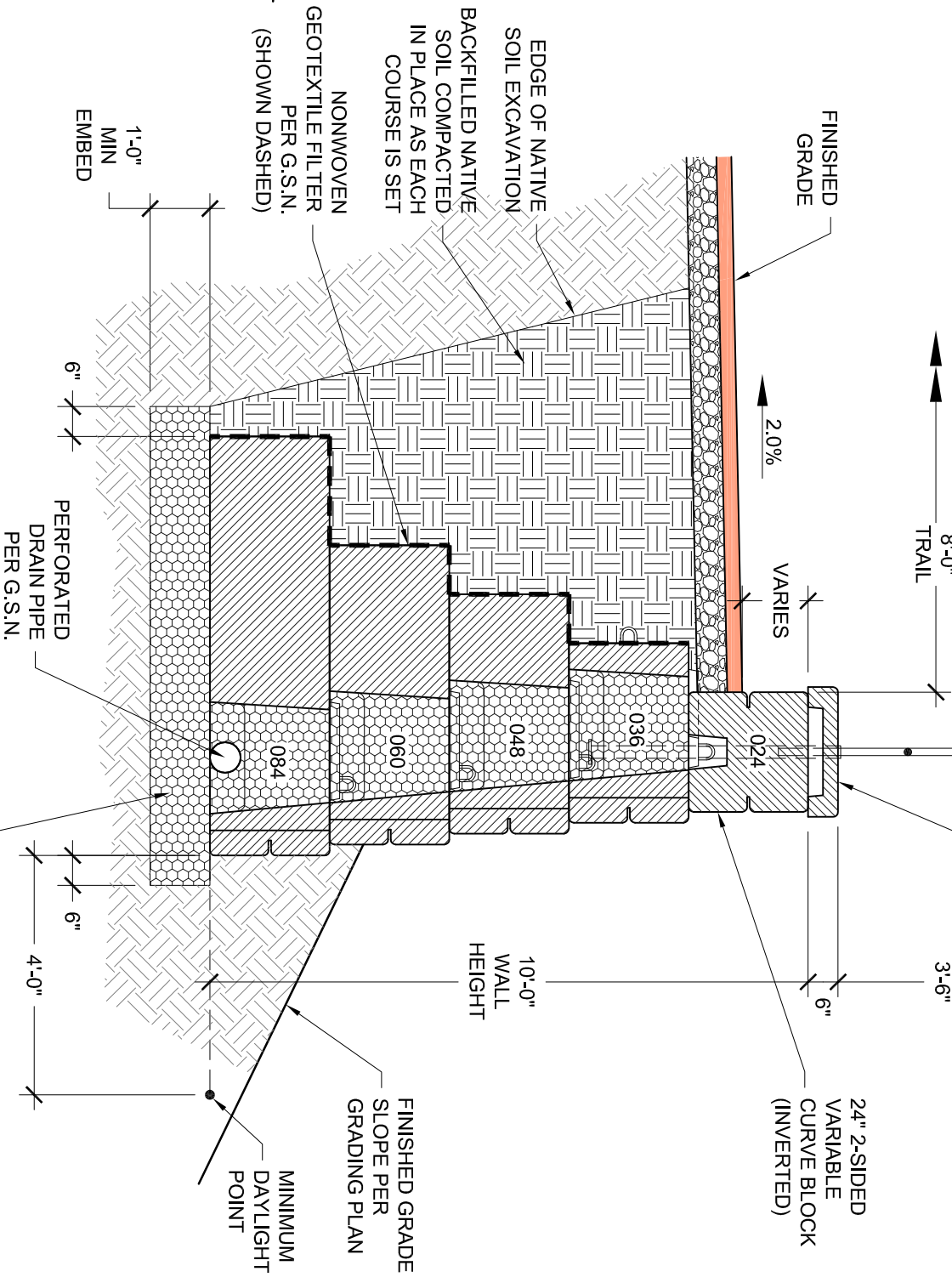
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SECTION 8

RETAINING WALL SECTION

(SEE SECTION 10 FOR
 REMAINDER OF NOTES)



SECTION 10

RETAINING WALL SECTION



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**BURTON
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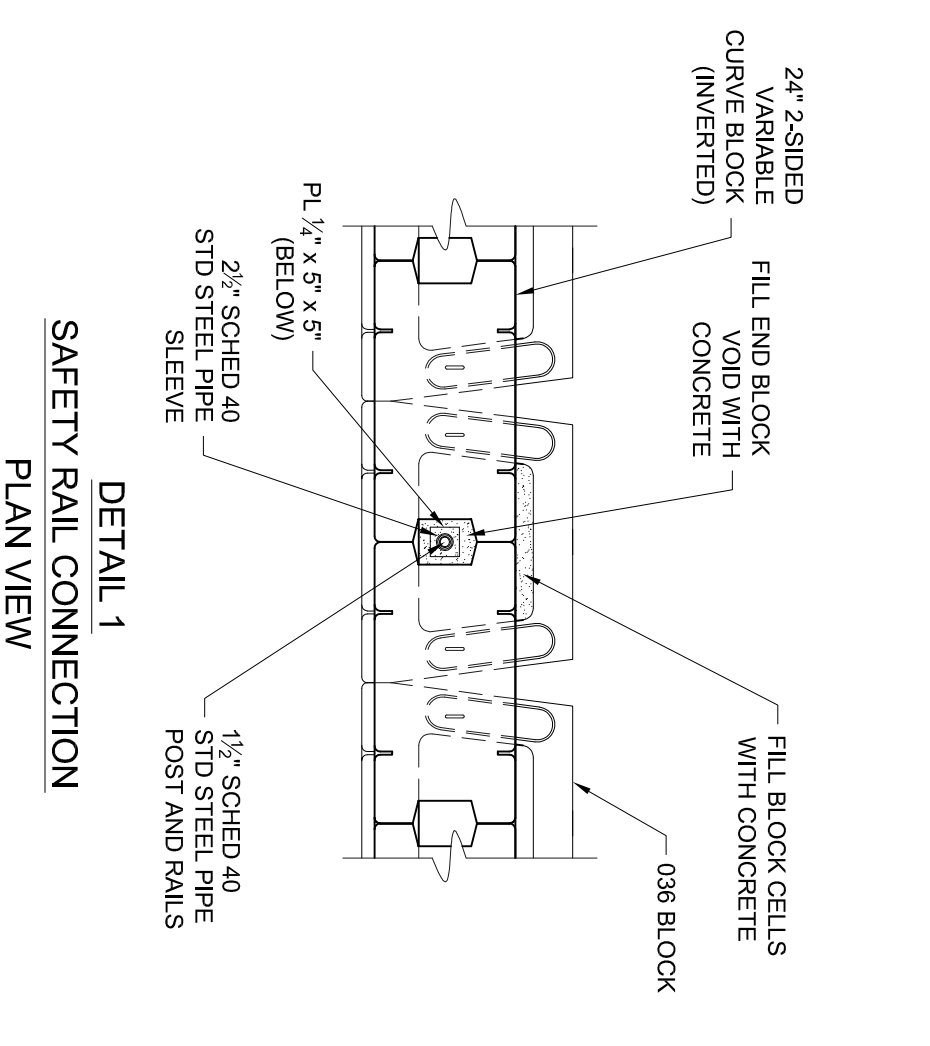
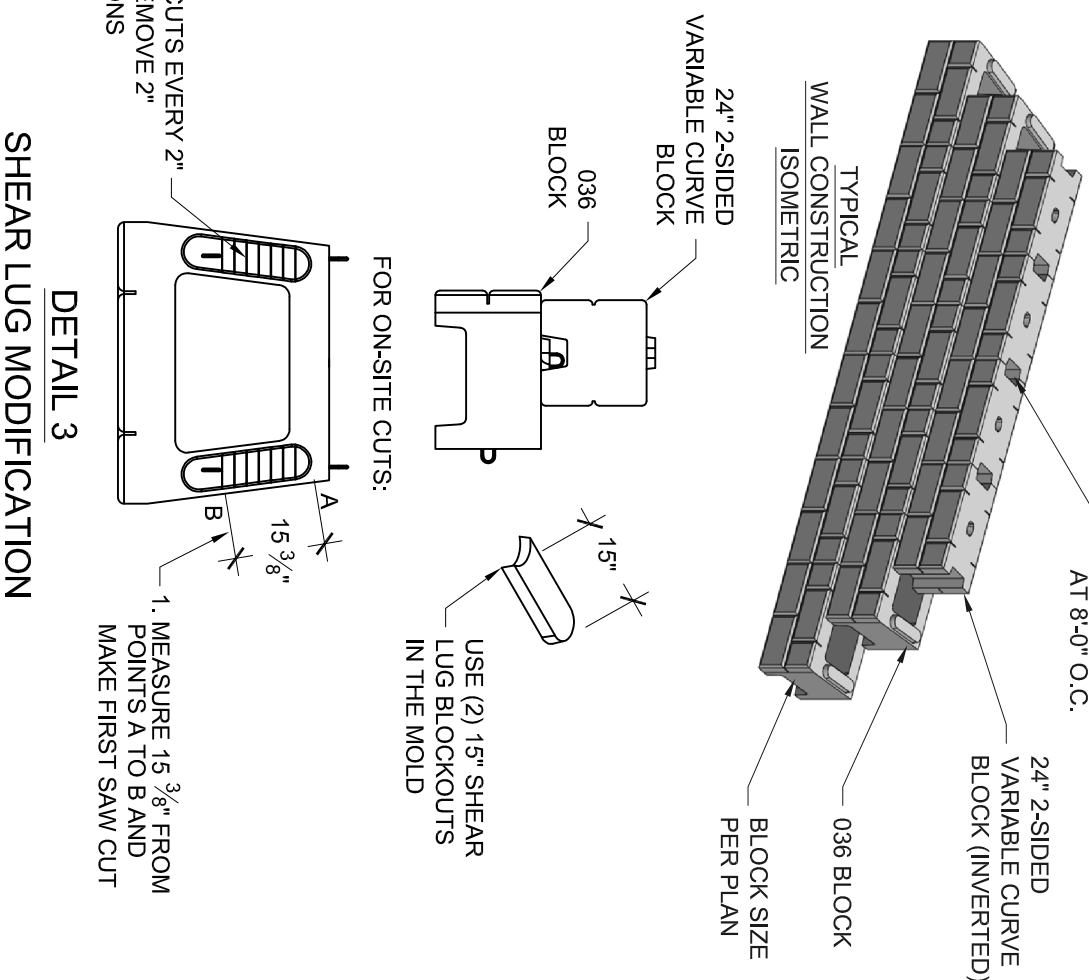
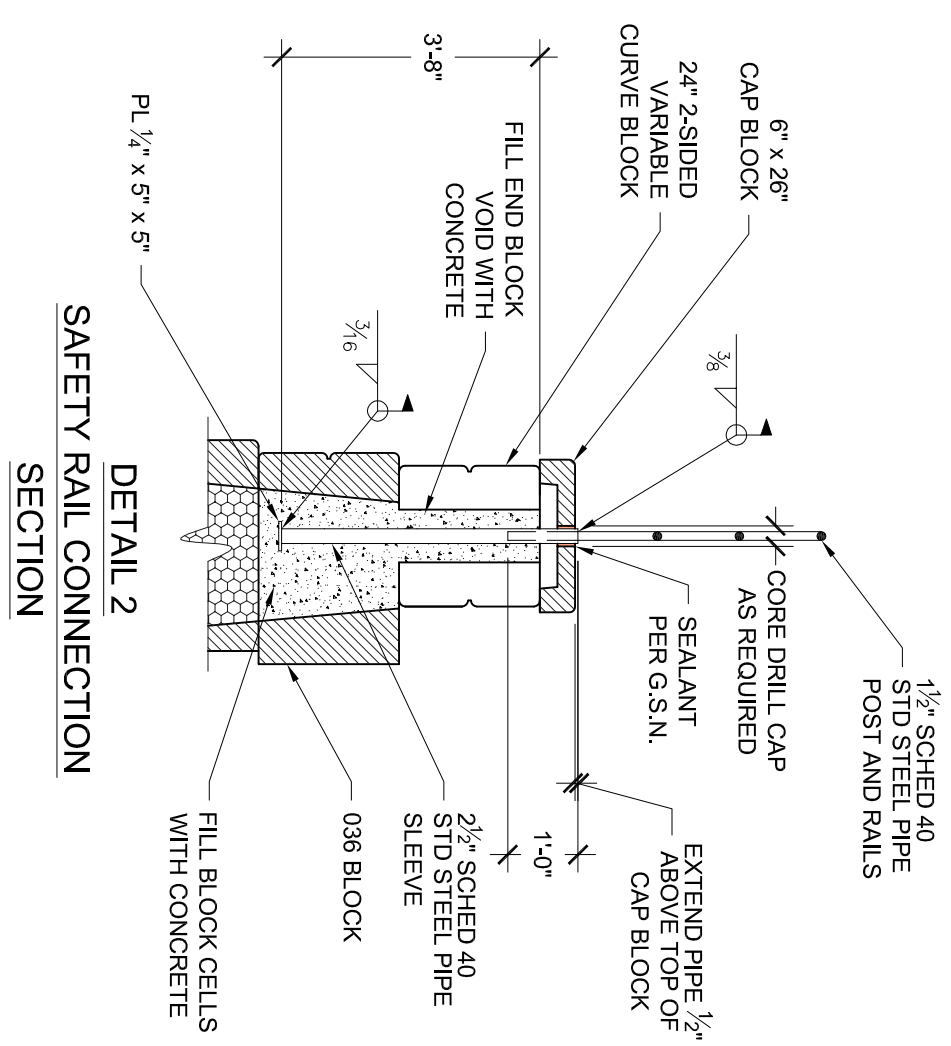
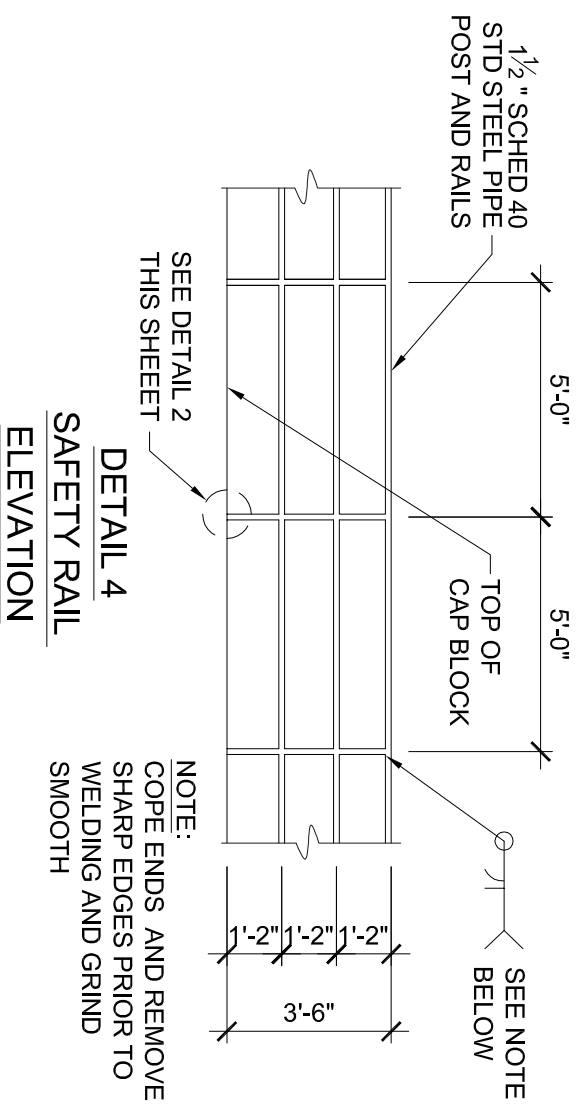
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**WALL
 DETAILS**

S-6





PROJECT ENGINEERING CONSULTANTS
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PROJECT INFORMATION

**BURTON
 RETAINING WALL**
 HUNTSVILLE, UT

SEAL/STAMP OF APPROVAL

PK:	LA
PK:	LA
DRAWN BY:	JB
CHECKED BY:	
PLLOT DATE:	01-11-2021

**Preliminary
 Not For
 Construction**
 1-12-2021

PROJECT #

UT 20-077

SUBMISSION DATE

UT 20-077

NO.	REVISION	DATE
1	—	—
2	—	—
3	—	—
4	—	—
5	—	—
6	—	—
7	—	—
8	—	—
9	—	—
10	—	—

PLAN INFORMATION

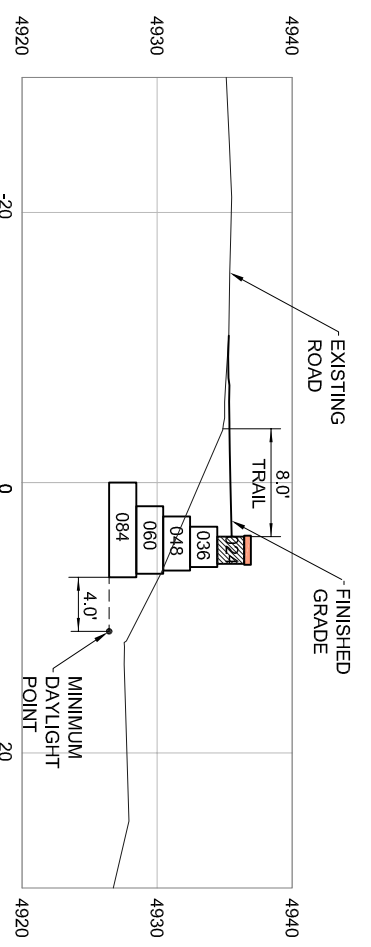
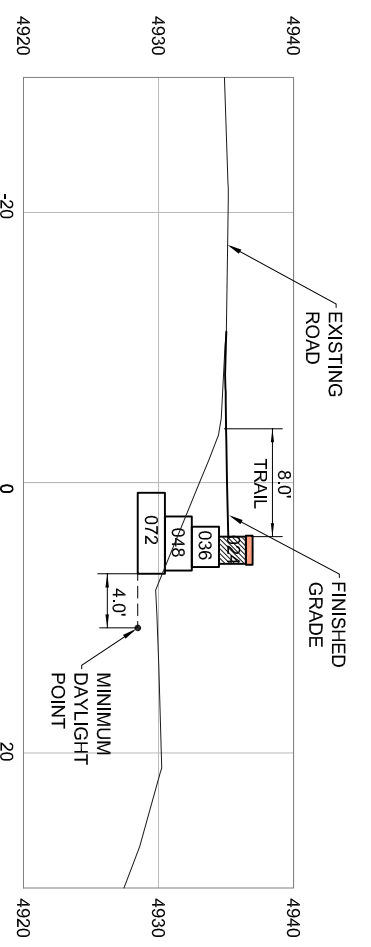
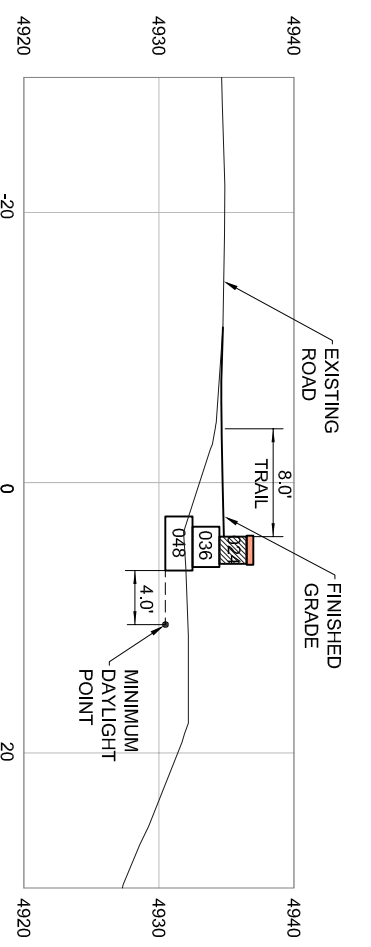
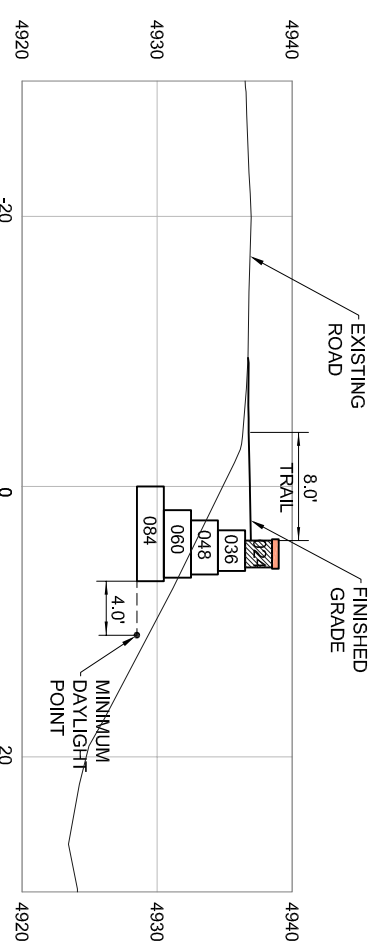
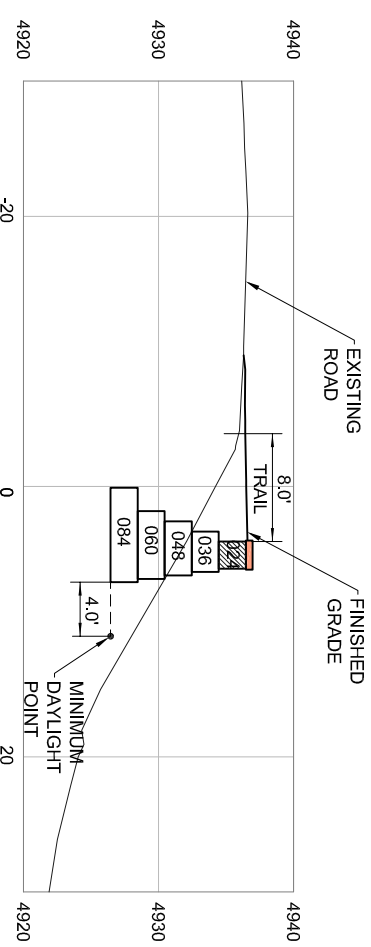
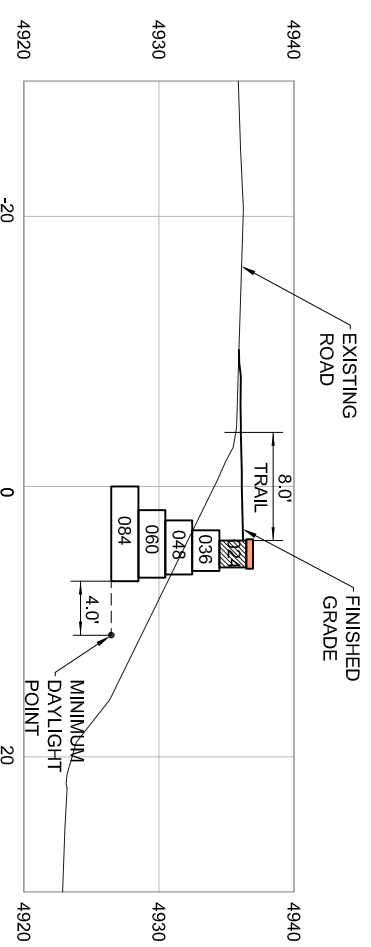
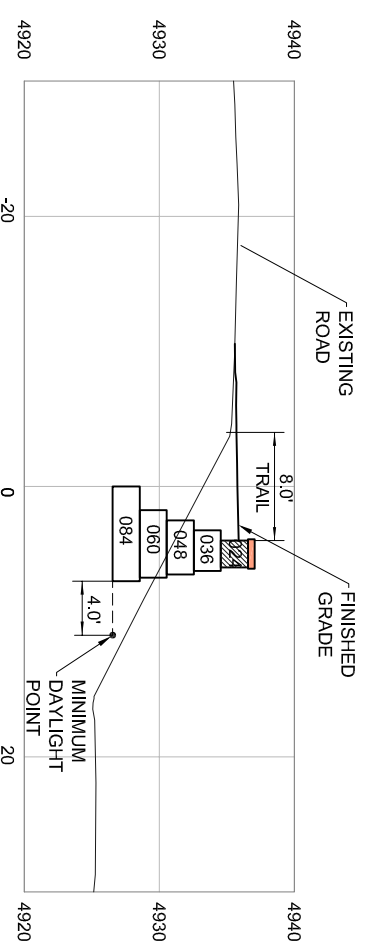


SHEET NAME (11"x17" SHEET)

**WALL
 CROSS SECTIONS**

SHEET NUMBER

S-7





PROJECT ENGINEERING CONSULTANTS
 986 WEST 9000 SOUTH
 WEST JORDAN, UTAH, 84088
 OFFICE: 801-495-4240
 EMAIL: INFO@PEC.US.COM

PROJECT INFORMATION

**BURTON
 RETAINING WALL**
 HUNTSVILLE, UT

SEAL/STAMP OF APPROVAL

Pr:	LA
Pk:	LA
Drawn By:	JB
Checked By:	
Plot Date:	01-11-2021

**Preliminary
 Not For
 Construction**
 1-12-2021

SUBMISSION DATE: 01-11-2021 PROJECT # UT 20-077

NO.	REVISION	DATE
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PLAN INFORMATION



SHEET NAME (11"x17" SHEET)

**WALL
 CROSS SECTIONS**

SHEET NUMBER

S-8

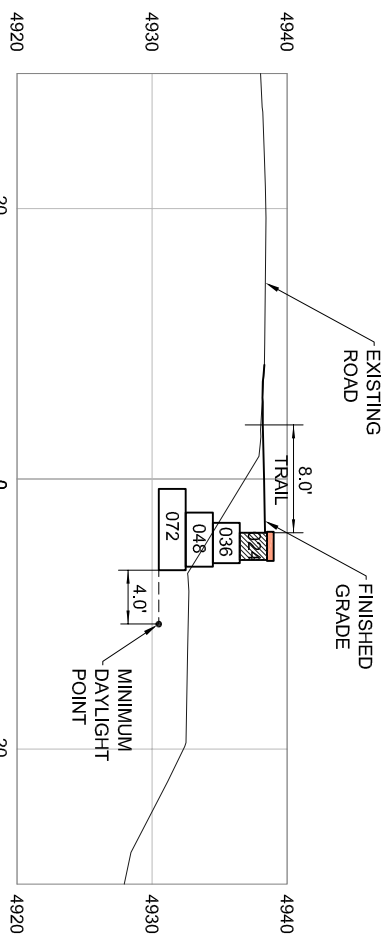
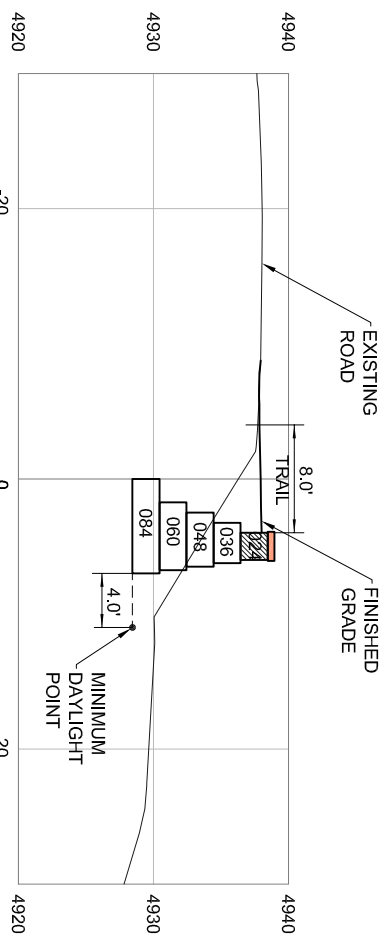
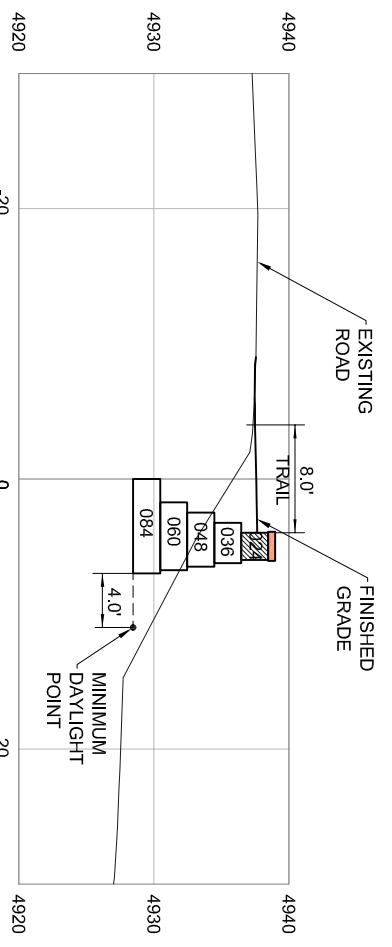
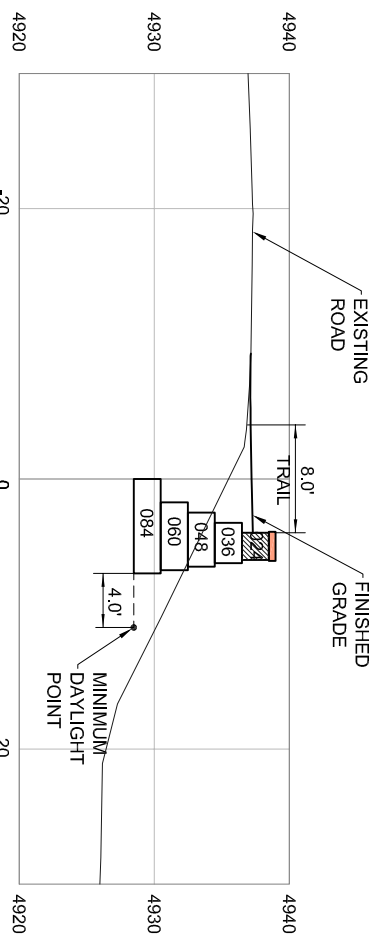


Exhibit C

**MEMORANDUM OF UNDERSTANDING
BETWEEN
EDEN VALLEY TRAILS TRUST
AND
WEBER COUNTY**

1. **BACKGROUND:** Weber County receives sales tax funds collected under Section 59-12-2219 of the Utah Code, which is known as the "county option sales and use tax for highways and public transit." The funds are sometimes referred to as "Prop 1 funds," because the ballot proposition that resulted in the enactment of the tax in Weber County was known as Proposition 1. Therefore, this Memorandum of Understanding (MOU) will use the term "Prop 1 funds" to describe the funds. The County is authorized to use Prop 1 funds for specific transportation-related purposes described in state law, including "the development, construction, maintenance, or operation of" certain thoroughfares and trails. Eden Valley Trails Trust has asked to use Prop 1 funds for specific trail projects and desires to have future access to the funds for other trail projects.
2. **PURPOSE:** The purpose of this MOU is to guarantee that Eden Valley Trails Trust, will use Prop 1 funds in accordance with applicable County and State laws, ordinances, and policies, without requiring a separate contract for each donation of funds. The County Commission finds that these donations will contribute to the safety, health, comfort, and convenience of county residents.
3. **SCOPE:** This MOU for the donation and use of Prop 1 funds is made between Eden Valley Trails Trust and Weber County.
4. **UNDERSTANDING, AGREEMENTS, AND SUPPORT REQUIREMENTS:**
 - A. Eden Valley Trails Trust is a nonprofit 501(c)(3) organization with a mission to "build and maintain a sustainable and interconnected trail system in Ogden Valley"
 - B. Weber County intends to donate Prop 1 funds to Eden Valley Trails Trust for the purpose of planning and building eligible pathways and trails in unincorporated Weber County.
 - C. To receive donations of Prop 1 funds, Eden Valley Trails Trust must apply to the County, specifying which projects the Prop 1 funds will be used for. If Eden Valley Trails Trust wants to use donated Prop 1 funds for projects not included in the original application, it must file a new application seeking authorization to use the funds for other projects.
 - D. Eden Valley Trails Trust will only use Weber County's Prop 1 fund donations for corridor preservation, engineering, environmental review, surveying, permitting, construction, project management, and any other project-specific tasks necessary to complete approved projects.
 - E. Eden Valley Trails Trust will comply with all applicable County and State laws, ordinances, and policies.


- F. Eden Valley Trails Trust will account for the expenditure of Prop 1 funds and will provide updates to Weber County upon request.
- G. Eden Valley Trails Trust will indemnify and hold harmless the County, its officers, agents, and employees from and against any claims or suits that arise as a result of Prop 1 fund donations, including improper use of Prop 1 funds.
- 5. **EFFECTIVE DATE:** This MOU is effective upon signature by both parties and will remain in effect until modified, replaced, or terminated by agreement of the parties.
- 6. **MODIFICATION:** Modification of this agreement requires written notification and approval by both parties 30 days in advance.
- 7. **GOVERNING LAW:** The laws of the State of Utah shall govern the validity, construction, enforcement, and interpretation of this agreement.
- 8. **ENTIRE AGREEMENT:** This agreement constitutes the entire agreement between the parties hereto with respect to the subject matter hereof, and no other statement, whether written or oral, shall be deemed a part of this agreement unless specifically incorporated herein by reference.
- 9. **SIGNATURES:** In witness whereof the undersigned have affixed their respective signatures hereto on the dates indicated below.

BOARD OF COUNTY COMMISSIONERS
OF WEBER COUNTY

By: 
James H. "Jim" Harvey, Chair

Commissioner Harvey voted Aye
Commissioner Bolos voted Aye
Commissioner Froerer voted Aye

ATTEST:


Ricky D. Hatch, CPA
Weber County Clerk/Auditor

Date:

10/01/2024

EDEN VALLEY TRAILS TRUST

By: 
Alan Wheelwright, Executive Director