THRASHER

ENGINEERING
ARCHITECTURE
FIELD SERVICES

RUSTIC RAVINES
WAYNE COUNTY, WEST VIRGINIA

RUSTIC RAVINES RESORT

ADDENDUM #1

JUNE 8, 2022

THRASHER PROJECT #030-10264

TO WHOM IT MAY CONCERN:

A Pre-Bid Conference was held on June 2nd, 2022 on the above-referenced project, a copy of the sign in sheet is included in this Addendum. The following are clarifications and responses to questions posed by contractors for the above reference project.

A. GENERAL

None

B. SPECIFICATIONS

None

C. DRAWINGS

Sheet C2 – Quantity table was revised to remove the Overhead Power Item. This now matches the Bid Form.

Sheet U1 – Proposed Overhead Electric power line was labeled to clarify it will be installed by AEP.

D. QUESTIONS AND RESPONSES

None

E. CLARIFICATIONS

1. This contract will not include the overhead power line from the existing power pole to the new power pole with transformer. This line, new pole, and transformer will be provided an installed by AEP.

If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, bids will be received until 11:00 a.m. on Thursday, June 16th, 2022 at 2575 Rustic Ravines Resort, Hampton Ridge Road, Genoa, WV. Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.

_____
Project Manager

RICHARD G. HOVATTER
REGISTERED
18460
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

6/8/22

RUSTIC RAVINES RESORT
WAYNE COUNTY, WEST VIRGINIA
RUSTIC RAVINES

MANDATORY PRE-BID CONFERENCE
Thursday, June 2, 2022

Thrasher Project #030-10264

Name	Representing	Phone #	Email Address
Jeremiah Morrison	Landslide Energy	(304)786-7607	jmorrison986@gmail
Randy Carpenter	Carpenter Reclamation	304-984-1115	Rcarpenter32@gd.com
Steven Adkins	Aspen Corp	304-673-3132	sadkins@aspen-golf.com
Stanley Kinder	Start to Finish Construction	304-982-2892	stankinder10@outlook.com
David M. Jackson	Asphalt Contractors	304 360 3661	david@asphaltsitework.com
LEE MARTIN	PRIME CONTRACTING	304687-4964	PRIMEUNDERGROUND1LLC@GMAIL.COM
Jerry Sheppard JR	Superior Pocahontas LLC	304-443-2660	Jerrysheppard_91@yahoo.com
Eddie Layne	Benchmark Const. Co.	304-881-2686	e.layne@bmcwv.com
Justin Thornton	Atlantic West	304-445-1305	

W.

Name	Representing	Phone #	Email Address
Jenna Hincks	OSMRE	304 347 7162	Jhincks@osmre.gov
Alexis Montelleone	WVDEP	304-545-6424	alexis.montelleone@wv.gov
Scott Cunningham	SQP Construction	304-532-3659	estimating@sqpgc.com
Roger Earle	WVDEP-AML	304-926-0499	Roger.A.Earle@wv.gov
Blaine Barringer	WV DEP-AML	304-550-2978	Gabriel.B.Barringer@wv.gov
Justin Hughes	Thrasher	304-841-4174	jhughes@thethrashergroup.com
RJ Hovatter	Thrasher	304-205-8809	rhovatter@thethrashergroup.com

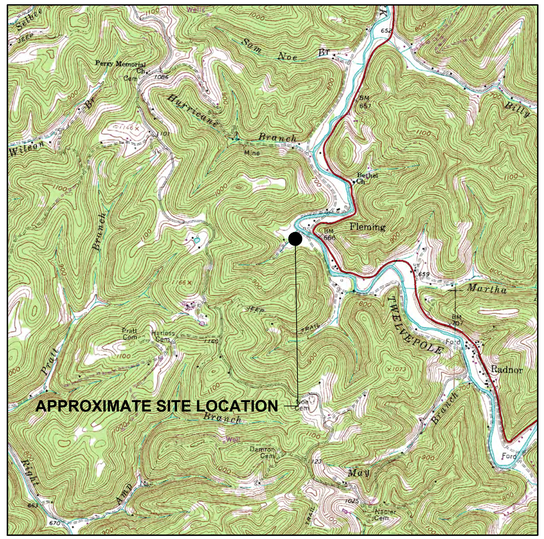
RUSTIC RAVINES, INC.

ISSUED FOR BIDDING

RUSTIC RAVINES CAMP GROUND
AML PILOT PROJECT
PROJECT NO. 030-10264

WAYNE COUNTY, WEST VIRGINIA
MAY 2022

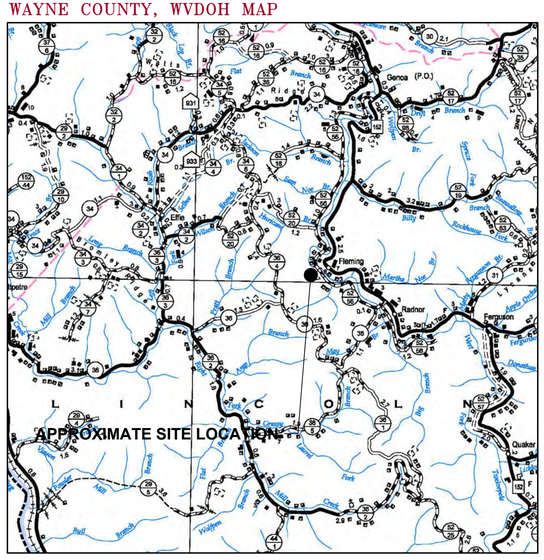
RADNOR, QUAD MAP



2000 ft. 0 2000 ft. 4000 ft.

VICINITY MAP SCALE

WAYNE COUNTY, WVDOH MAP



5000 ft. 0 5000 ft. 10000 ft.

VICINITY MAP SCALE

THRASHER

SHEET INDEX

SHEET	DESCRIPTION
C1	COVER
C2	GENERAL NOTES
C3	EXISTING CONDITIONS
C4	OVERALL PLAN
C5	GEOMETRIC LAYOUT
C6	GEOMETRIC TABLE
C7	TYPICAL SECTIONS
ESC1-ESC3	EROSION & SEDIMENT CONTROL PLAN
PP1-PP8	DRIVE PLAN & PROFILE
U1	UTILITY PLAN
D1-D7	DETAILS

REVISION NUMBER	REVISED SHEETS	BY	DATE	DESCRIPTION

THIS PLAN SET DEPICTS THE NECESSARY INFORMATION FOR EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED BY THE WVDEP FOR STORM WATER PERMITTING PURPOSES.

THE AQUATIC RESOURCES DEPICTED ON THESE DRAWINGS ARE AS PROVIDED TO THE THRASHER GROUP, INC. BY OTHERS. THRASHER WILL NOT ACCEPT ANY LIABILITY FOR THE ACCURACY, OR COMPLETENESS, OF THE AQUATIC RESOURCES DEPICTED ON THESE PLANS.

RICHARD G. HOVATTER JR. REGISTERED #18460 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER 6/8/22

RICHARD G. HOVATTER Jr. , WV P.E. #18460

☐	ISSUED FOR PERMITS	DATE: _____	BY: _____
☒	ISSUED FOR BID	DATE: 6/8/22	BY: RJH
☐	ISSUED FOR CONSTRUCTION	DATE: _____	BY: _____

CONTACTS

CLIENT'S CONTACT
RUSTIC RAVINES INC.
ATTN: JOE BOFFO
(304) 385-1085
rusticravines@gmail.com

BRIDGEPORT, WV OFFICE
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
(304) 624-4108
PO BOX 940

ENGINEER
THE THRASHER GROUP
ATTN: RICHARD G. HOVATTER Jr., P.E.
(304)-205-8809
rhovatter@thethrashergroup.com

PLAN REPRODUCTION WARNING

THESE PLANS ARE INTENDED TO BE PLOTTED ON ANSI D (22" X 34") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE. THESE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THESE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES. **WARNING**: INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.

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WEST VIRGINIA 811

CONTRACTOR SHALL NOTIFY THE ONE-CALL SYSTEM OF THE INTENDED EXCAVATION OR DEMOLITION NOT LESS THAN FORTY-EIGHT (48) HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL FEDERAL OR STATE HOLIDAYS, NOR MORE THAN TEN (10) WORK DAYS PRIOR TO THE BEGINNING OF SUCH WORK.
CALL811.COM/811-IN-YOUR-STATE

CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-Cover.dwg PLOT DATE/TIME: 5/17/2022 3:33 PM USER: justin hughes

GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL PLAN AND ELEVATION DIMENSIONS OF THE VARIOUS WORK ITEMS ON THIS PROJECT. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
2. THE LOCATION AND/OR ELEVATIONS OF ALL KNOWN UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION FROM EXISTING PLANS AND FIELD INVESTIGATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE STATUS AND LOCATION OF EACH UTILITY WHERE PERFORMING WORK WHICH MAY AFFECT THESE FACILITIES, INCLUDING PROBING, EXCAVATION, OR ANY OTHER PRECAUTION REQUIRED TO CONFIRM LOCATION. THE CONTRACTOR SHOULD CONTACT "MISS UTILITY OF WEST VIRGINIA" (800-254-4848) TO FIELD LOCATE ALL ABOVE AND BELOW GROUND UTILITIES IN THE AREA. THE CONTRACTOR SHALL TAKE ALL RESPONSIBLE PRECAUTIONS AGAINST DAMAGE TO EXISTING UTILITIES. HOWEVER IN THE EVENT OF DAMAGE OR DISRUPTION TO UTILITIES WHICH ARE ACTIVE AND ARE TO REMAIN IN SERVICE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESPONSIBLE OFFICIAL OF THE ORGANIZATION OPERATING THE UTILITY INTERRUPTED. THE CONTRACTOR SHALL IMMEDIATELY LEND ALL POSSIBLE ASSISTANCE IN RESTORING SERVICES AND SHALL ASSUME ALL COST, CHARGES, OR CLAIMS CONNECTED WITH THE INTERRUPTION AND REPAIR OF SUCH SERVICES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A VALID STATE CONTRACTOR'S LICENSE AND PAYING ALL STATE AND LOCAL B&O TAXES IF APPLICABLE.
4. EXISTING FEATURES AND 2' CONTOURS ARE BASED ON AERIAL MAPPING PROVIDED BY THE THRASHER GROUP IN APRIL 2021.
5. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE ON THE PROJECT FOR THE COMPLETE DURATION AND SHALL DIVERT OFFSITE DRAINAGE FROM THE SITE.
6. THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND OTHER ACTIONS AS REQUIRED BY LOCAL AND STATE REGULATIONS OR REQUESTED BY ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING OR MODIFYING SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IN ORDER TO PREVENT EROSION.
7. EROSION AND SEDIMENT CONTROL DETAILS NOT SHOWN IN THE PLANS SHALL BE IN ACCORDANCE WITH THE WEST VIRGINIA DEPARTMENT OF HIGHWAYS EROSION AND SEDIMENT CONTROL MANUAL, LATEST EDITION.
8. ALL EXCAVATION AND FILL PLACEMENT SHALL BE TO THE LINES AND GRADES AS SHOWN ON THE DRAWINGS. CONTRACTOR WILL BE RESPONSIBLE FOR FIELD VERIFYING ALL LINES AND GRADES. EXACT CUT AND FILL LIMITS MAY NEED TO BE MODIFIED IN THE FIELD DURING CONSTRUCTION. THE ENGINEER WILL WORK CLOSELY WITH THE CONTRACTOR TO MAKE THESE MODIFICATIONS.
9. ALL EXCAVATIONS SHALL BE PERFORMED IN A MANNER AS TO NOT CREATE UNSTABLE CONDITIONS. SHOULD UNSTABLE CONDITIONS OCCUR DUE TO CONTRACTOR NEGLIGENCE, THE UNSTABLE CONDITIONS SHALL BE REPAIRED AND REGRADED AT NO EXPENSE TO THE OWNER. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL CUT AND/OR FILL AREAS.
10. ALL UNSUITABLE MATERIAL SHALL BE STOCKPILED IN THE AREA DESIGNATED ON THE PLANS. SOIL SHALL BE PLACED IN A PILE AND GRADED TO PROVIDE POSITIVE DRAINAGE. TREES AND BRUSH SHALL BE WIND ROWED ABOVE SOIL STOCKPILE.
11. ALL FILL MUST BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN 3% OF OPTIMUM PER ASTM D-698. THE MAXIMUM SOIL LIFT SHALL BE 8" WITH AN 6" MAXIMUM PARTICLE SIZE.
12. GRADING SHALL NOT BE DONE IN SUCH A WAY TO DIVERT WATER ONTO PROPERTY OF ANOTHER LAND OWNER. EXCAVATION OR FILL SHALL NOT ENDANGER ADJOINING PROPERTY.
13. ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED AFTER CONSTRUCTION HAS BEEN COMPLETED. BEFORE SEEDING TAKES PLACE, THE DISTURBED AREAS SHALL BE GRADED TO A SMOOTH LINE AND TOPPED WITH 4" OF TOPSOIL. (TOPSOIL MUST NOT CONTAIN AGGREGATE LARGER THAN 1"). TOPSOIL CAN BE FOUND ON SITE; IF MORE TOPSOIL IS NEEDED, A BORROW PIT CAN BE DESIGNATED.
14. IN THE EVENT AN ERROR WITH THE PLANS SEEMS APPARENT, THE MATTER MUST BE TAKEN UP WITH THE ENGINEER FOR CAREFUL REVIEW BEFORE PROCEEDING WITH CONSTRUCTION.
15. ALL PERMITS MUST BE SECURED PRIOR TO CONSTRUCTION. THE OWNER SHALL PROVIDE WVDEP NPDES PERMIT AND WV DNR OLS PERMIT. ALL PERMITS NOT PROVIDED BY THE OWNER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. ALL QUALITY CONTROL TESTING AND INSPECTION SHALL BE PERFORMED BY A QUALIFIED TESTING AGENCY AND WILL BE PAID FOR BY THE OWNER. TESTING SHALL BE PERFORMED FOR SOILS, SUBGRADE, AGGREGATE BASE COURSE, AND UTILITIES.
17. ALL EXISTING ACCESS ROADS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION OPERATIONS WITH AASHTO NO. 1 STONE PLACED WITH PRIOR APPROVAL AND DIRECTION FROM THE ON SITE ENGINEER. EXISTING ACCESS ROADS SHALL BE RETURNED TO EXISTING OR BETTER CONDITIONS UPON COMPLETION OF CONSTRUCTION OPERATIONS.
18. STONE USED IN ROAD CHANNEL CROSSINGS SHALL BE LIMESTONE. STONE USED FOR ROADS AND PARKING LOTS SHALL BE LIMESTONE OR DURABLE SANDSTONE.

CONSTRUCTION SEQUENCE OF EVENTS:

1. LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY MISS UTILITY OF WEST VIRGINIA AT 1-800-245-4848 A MINIMUM OF (2) DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
3. INSTALL ALL PERIMETER AND EROSION AND SEDIMENT CONTROLS. (SILT FENCE, DIVERSIONS, COMPOST FILTER SOCK, ETC.)
4. REMOVE AND DISPOSE OF ALL MATERIAL NOT SUITABLE FOR FILL: EG, BRUSH, LOGS, VEGETABLE MATTER, ETC. UNSUITABLE MATERIAL SHALL BE STOCKPILED.
5. EXCAVATE AND ROUGH GRADE SITE.
6. INSTALL ALL PROPOSED UTILITIES.
7. INSTALL DRAINAGE FACILITIES / CHANNELS.
8. COMPLETE FINE GRADING. ALL DISTURBED AREAS SHALL BE DRESSED TO A NEAT AND FINISHED APPEARANCE AND STABILIZED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN AND SEEDING AND MULCHING SPECIFICATIONS.
9. COMPLETE GRAVEL PLACEMENT.
10. SEED, MULCH AND STABILIZE ALL DISTURBED AREAS.
11. AFTER COMPLETE STABILIZATION OF THE DRAINAGE AREA, REMOVE EROSION AND SEDIMENT CONTROLS AND DRESS AND STABILIZE AS REQUIRED.
12. FINAL PROJECT CLEAN UP AND DEMOBILIZATION.

EROSION AND SEDIMENT CONTROL NOTES:

MAINTENANCE AND INSPECTION NOTES

1. THE CONTRACTOR SHALL CLEAN OUT SEDIMENT BEHIND THE SUPER SILT FENCE, AND/OR COMPOST FILTER SOCKS ONCE IT IS ONE THIRD OF THE HEIGHT OF THE FENCE, AND/OR SOCK. THE SEDIMENT SHALL BE INCORPORATED INTO THE FILL WITHIN THE DISTURBED AREA.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED, AT MINIMUM, ONCE EVERY 4 CALENDAR DAYS AND WITHIN 24-HOURS AFTER ANY STORM GREATER THAN 0.25-INCHES PER 24-HOUR PERIOD. ANY REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.
3. THE CONTRACTOR WILL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL MAINTENANCE FROM THE BEGINNING OF THE PROJECT, UNTIL THE PERMIT IS TERMINATED.

SEEDING AND MULCHING

1. TEMPORARY STABILIZATION
   DATES: MARCH 1 THROUGH JUNE 15
   SEED: OATS @ 168 LB/AC
   DATES: AUGUST 15 THROUGH NOVEMBER 1
   SEED: RYE @ 120 LB/AC
   FERTILIZER: 10-10-10 @ 400 LB/AC

   FOR STABILIZATION OUTSIDE SEEDING DATES, USE HAY OR STRAW MULCH AT 3 TONS/AC OR AT 2 TONS/AC IF ASPHALT EMULSION IS APPLIED AT 100 GAL/AC.
2. PERMANENT STABILIZATION
   DATES: MARCH, APRIL, AUGUST, & AUGUST
   SEED: KY-31 TALL FESCUE @ 50 LB/AC
   FERTILIZER: 10-20-10 @ 1000 LB/AC
   LIME: 3 TONS/AC OR PER SOIL TEST RESULTS
   MULCH: HAY OR STRAW @ 2 TONS/AC OR @ 1.5 TONS/AC WITH ASPHALT EMULSION @ 125 GAL/AC
3. SEEDBED PREPARATION: AREAS TO BE SEEDED SHALL BE FREE OF ROCKS AND STONES, DISKED TO A DEPTH OF 4-IN TO 6-IN, AND SMOOTHLY GRADED.
4. SEEDING METHOD: SEED MAY BE BROADCAST BY HYDROSEEDER OR MANUALLY AS FOLLOWS: BY HAND WITH A CYCLONE SEEDER, OR FERTILIZER SPREADER. IF A MANUAL METHOD IS USED, DIVIDE THE SEED INTO TWO LOTS AND BROADCAST THE SECOND PERPENDICULAR TO THE FIRST.
5. TOPSOIL SHALL BE REDISTRIBUTED ON ALL DISTURBED AREAS TO BE STABILIZED PRIOR TO SEEDING PER OWNERS GMP PROGRAM.
6. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 4 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
7. WHERE THE INITIATION OF STABILIZATION MEASURES WITHIN 4 DAYS AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
8. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED (e.g., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 14 DAYS), THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE FOURTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
9. AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RE-SEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.

CONTACTS:

OWNER
RUSTIC RAVINES
JOE BOFFO
304-385-1085
rusticravines@gmail.com

ENGINEER
THE THRASHER GROUP, INC.
RICHARD G. HOVATTER, JR., P.E.
304-205-8809
rhovatter@thethrashergroup.com

MISS UTILITY
1-800-245-4848
http://www.wv811.com

QUANTITIES:

1

Description	Quantity	
Mobilization	1	LS
Construction Layout	1	LS
Priority One Silt Fence	870	LF
48" Culvert	37	LF
AASHTO #1 Maintenance Stone	110	TN
#3 Base Stone	1420	TN
Crusher Run	710	TN
Seperation Fabric	6700	SY
3" HDPE DR 11 Waterline	880	LF
3/4" Waterline Service	30	LF
3" Water Valve	4	EA
2" Water Meter	1	EA
Installation of Individual Yard Hyrdants	6	EA
4" Underground PVC SCH. 40 Conduit	480	LF
#2 THHN Copper Electrical Wire	800	LF
#1 THHN Copper Electrical Wire	530	LF
#1/0 THHN Copper Electrical Wire	1310	LF
#2/0 THHN Copper Electrical Wire	770	LF
#6 THHN Copper Ground Wire	1630	LF
17" x 30" x 12" Quazite boxes	8	EA
Transformer Pad	1	EA
Installation of Individual Electrical Pedestal Boxes	6	EA
AEP Approved 1200A CT Cabinet	1	EA
4" Waterline Casing	50	LF

Deductive Alternate #1		
#3 Base Stone	220	TN
Crusher Run	110	TN
Seperation Fabric	1040	SY
3" HDPE DR 11 Waterline	335	LF
3" Water Valve	1	EA

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NO.	BY	DATE	DESCRIPTION
1	JJH	6.8.2022	REMOVAL OF OVERHEAD ELECTRIC EXTENSION FROM QUANTITIES

SCALE: AS SHOWN
DRAWN: DATE:
CHECKED: DATE:
APPROVED: DATE:
SURVEY DATE:
SURVEY BY:
FIELD BOOK No.:

THRASHER
THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.
CONTRACT No.
PROJECT No. 101-030-10264

RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
GENERAL NOTES

SHEET No. C2

FULL SIZE PLAN SCALE:
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-GENERAL NOTES.dwg
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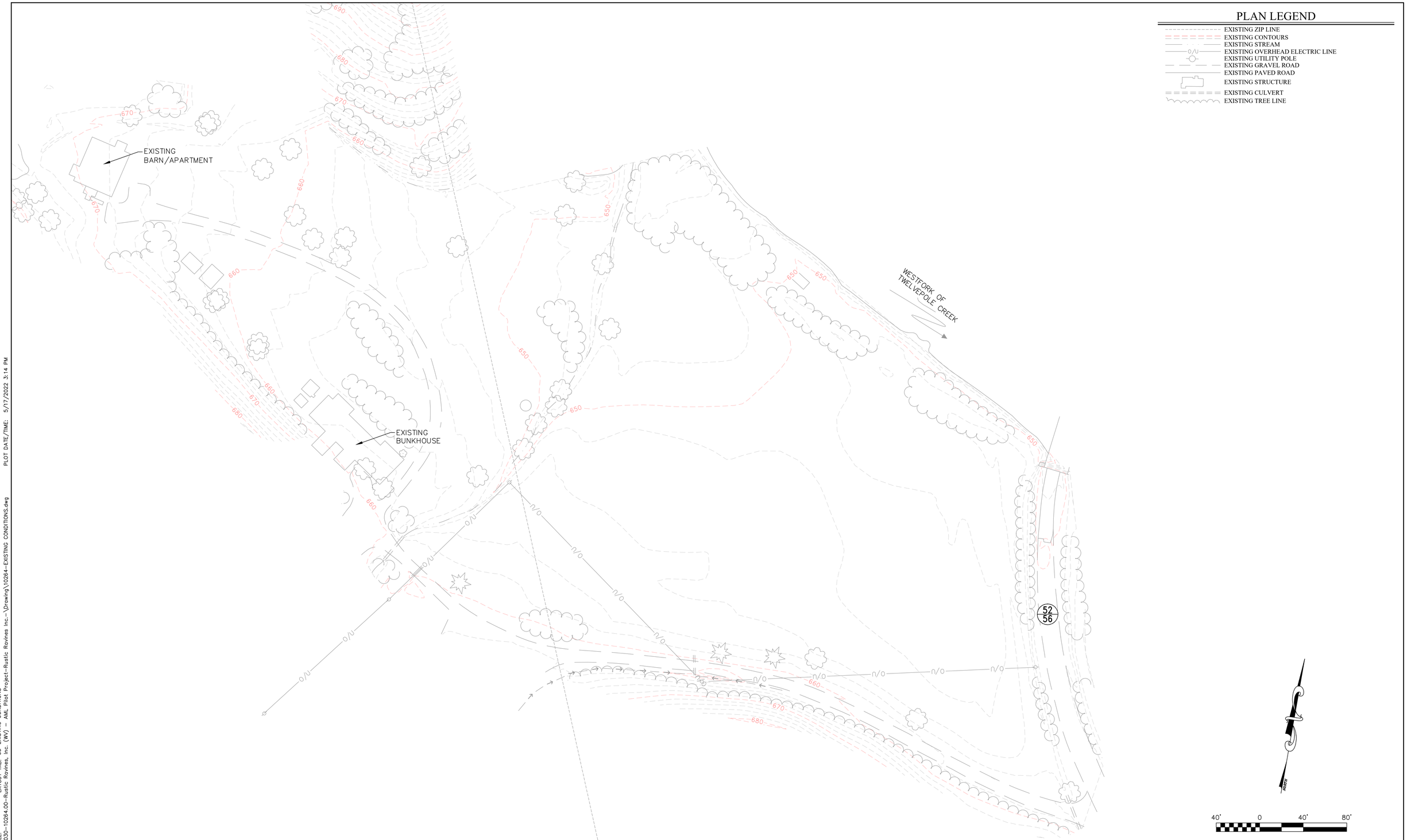

PLOT DATE/TIME: 5/17/2022 3:14 PM

LAYOUT TAB: C3-EXISTING CONDITIONS

CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-EXISTING CONDITIONS.dwg

FULL SIZE PLAN SCALE:

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NO.	BY	DATE	DESCRIPTION

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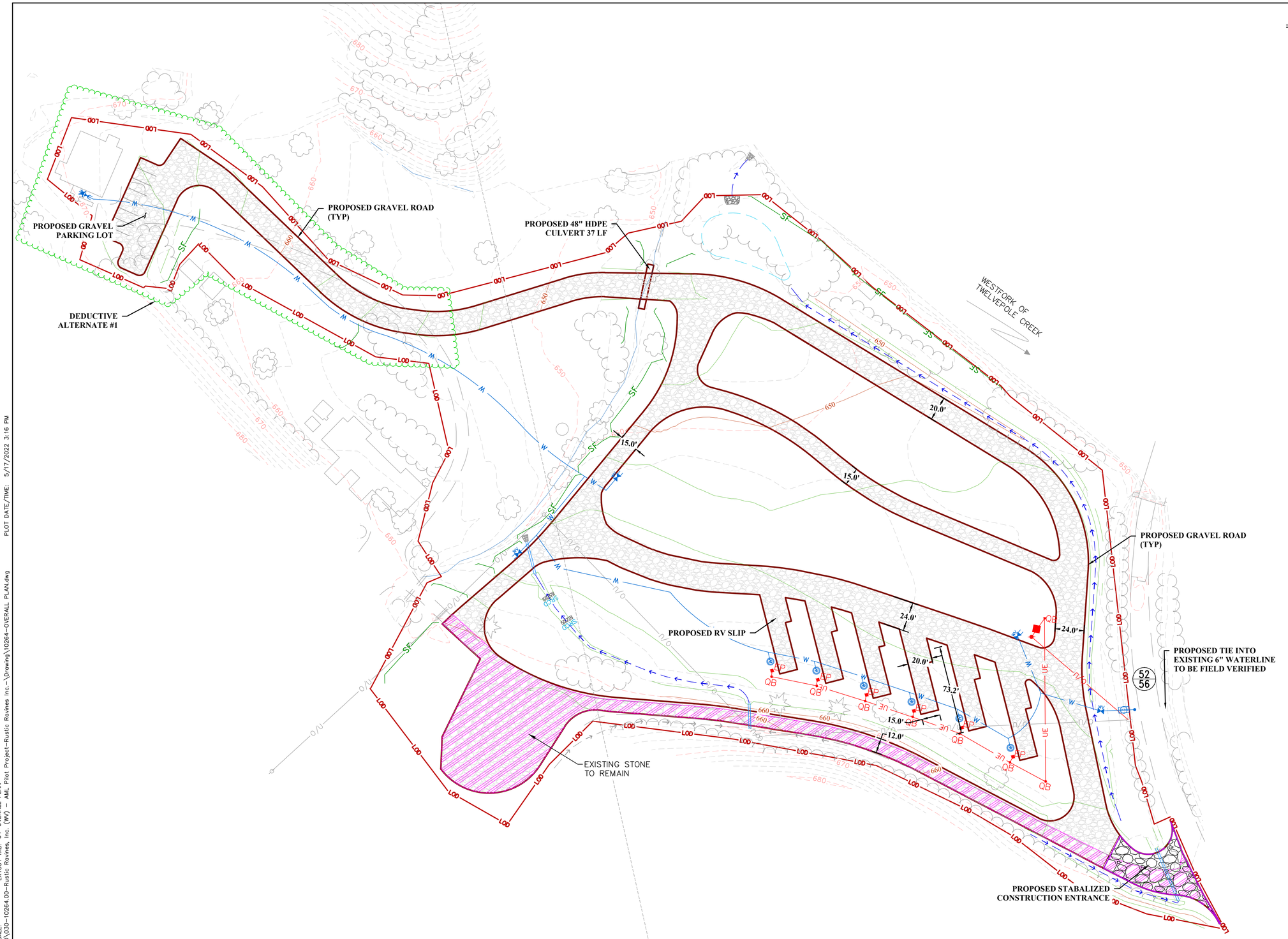
SURVEY DATE:
SURVEY BY:
FIELD BOOK No.:

THRASHER
THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.
CONTRACT No.
PROJECT No.
101-030-10264

RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
EXISTING CONDITIONS

SHEET No.
C3



PLAN LEGEND

- EXISTING ZIP LINE
- EXISTING CONTOURS
- EXISTING STREAM
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UTILITY POLE
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING STRUCTURE
- EXISTING CULVERT
- EXISTING TREE LINE
- EXISTING STONE TO REMAIN
- LIMIT OF DISTURBANCE
- PROPOSED CONTOURS
- PROPOSED PRIORITY ONE SILT FENCE
- PROPOSED EROSION CONTROL MATTING LINED DITCH
- PROPOSED OUTLET PROTECTION
- PROPOSED GRAVEL SHOULDER
- PROPOSED CULVERT
- PROPOSED ROCK CHECK DAM WITH SUMP
- PROPOSED 2" & $\frac{3}{4}$" SERVICE WATERLINE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED TEMPORARY SEDIMENT TRAP BOTTOM
- PROPOSED ELECTRICAL PEDESTAL BOX
- PROPOSED ELECTRICAL QUAZITE BOX
- PROPOSED YARD HYDRANT
- PROPOSED WATER VALVE
- PROPOSED PRESSURE VALVE WITH STUB OUT
- PROPOSED WATER METER

EARTHWORK SUMMARY

CUT: 2,165 CY
FILL: 2,134 CY
NET: 31 CY (cut)

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NO.	BY	DATE	DESCRIPTION

SCALE: AS SHOWN
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SURVEY DATE:
SURVEY BY:
FIELD BOOK No.:

THRASHER
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600 WHITE OAKS BLVD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.
CONTRACT No.
PROJECT No. 101-030-10264

RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
OVERALL PLAN

SHEET No. C4

FULL SIZE PLAN SCALE:
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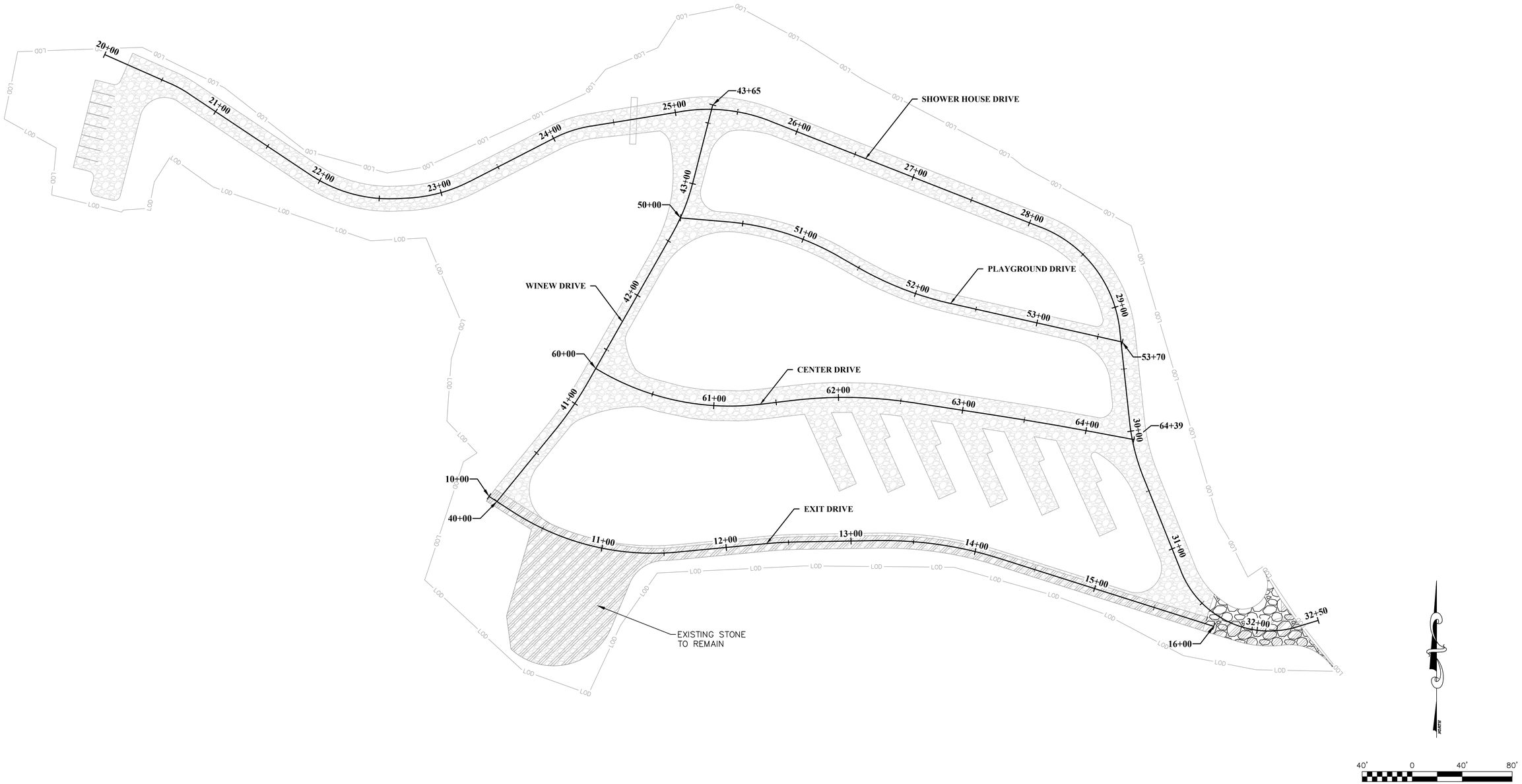

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NO.	BY	DATE	DESCRIPTION

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CHECKED: DATE:
APPROVED: DATE:
SURVEY DATE:
SURVEY BY:
FIELD BOOK No.:

THRASHER
THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.
CONTRACT No.
PROJECT No. 101-030-10264

RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
GEOMETRIC LAYOUT

SHEET No. C5

FULL SIZE PLAN SCALE:
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-GEOMETRIC LAYOUT.dwg
LAYOUT TAB: C5-GEOMETRIC LAYOUT
PLOT DATE/TIME: 5/17/2022 3:17 PM

SHOWER HOUSE DRIVE CENTERLINE

No.	Type	Start Station	End Station	Length (L)	Direction	Start Point (WV83-S E,N)	End Point (WV83-S E,N)	PI Station	PI Point (WV83-S E,N)	Degree of Curvature by Arc (Dc)	Delta angle (Δ)	Radius (R)	External Tangent (T)	Chord length (LC)	External Secant (E)	Mid-Ordinate (M)
1	Line	20+00.00'	20+57.24'	57.238'	S 66° 10' 19.24" E	1544102.2226', 399389.8366'	1544154.5818', 399366.7129'									
2	Curve	20+57.24'	20+74.54'	17.303'		1544154.5818', 399366.7129'	1544169.7279', 399358.3914'	20+65.91'	1544162.5157', 399363.2090'	57°17'45"	9°54'50"	100.000'	8.673'	17.281'	0.375'	0.374
3	Line	20+74.54'	21+91.06'	116.518'	S 56° 15' 29.10" E	1544169.7279', 399358.3914'	1544266.6182', 399293.6712'									
4	Curve	21+91.06'	22+63.55'	72.492'		1544266.6182', 399293.6712'	1544335.2945', 399274.5935'	22+28.58'	1544297.8169', 399272.8312'	50°15'34"	36°26'03"	114.000'	37.519'	71.277'	6.015'	5.714
5	Line	22+63.55'	22+72.40'	8.847'	N 87° 18' 28.01" E	1544335.2945', 399274.5935'	1544344.1322', 399275.0091'									
6	Curve	22+72.40'	23+24.51'	52.113'		1544344.1322', 399275.0091'	1544394.1039', 399288.3328'	22+98.86'	1544370.5629', 399276.2519'	46°57'50"	24°28'27"	122.000'	26.460'	51.717'	2.836'	2.772
7	Line	23+24.51'	24+00.21'	75.698'	N 62° 50' 01.34" E	1544394.1039', 399288.3328'	1544461.4512', 399322.8946'									
8	Curve	24+00.21'	24+31.65'	31.436'		1544461.4512', 399322.8946'	1544491.1983', 399332.6523'	24+16.06'	1544475.5515', 399330.1307'	57°17'45"	18°00'41"	100.000'	15.849'	31.307'	1.248'	1.233
9	Line	24+31.65'	25+04.95'	73.309'	N 80° 50' 42.56" E	1544491.1983', 399332.6523'	1544563.5732', 399344.3159'									
10	Curve	25+04.95'	25+77.01'	72.058'		1544563.5732', 399344.3159'	1544634.3710', 399336.7044'	25+41.86'	1544600.0126', 399350.1883'	42°26'29"	30°34'57"	135.000'	36.910'	71.206'	4.955'	4.779
11	Line	25+77.01'	28+10.01'	232.999'	S 68° 34' 20.82" E	1544634.3710', 399336.7044'	1544851.2650', 399251.5842'									
12	Curve	28+10.01'	29+19.03'	109.018'		1544851.2650', 399251.5842'	1544914.1645', 399169.1394'	28+70.65'	1544907.7108', 399229.4320'	57°17'45"	62°27'46"	100.000'	60.637'	103.699'	16.948'	14.492
13	Line	29+19.03'	29+92.02'	72.990'	S 06° 06' 34.91" E	1544914.1645', 399169.1394'	1544921.9331', 399096.5638'									
14	Curve	29+92.02'	30+38.71'	46.691'		1544921.9331', 399096.5638'	1544933.1757', 399051.3977'	30+15.51'	1544924.4335', 399073.2039'	33°42'12"	15°44'11"	170.000'	23.493'	46.544'	1.616'	1.6
15	Line	30+38.71'	31+19.41'	80.704'	S 21° 50' 46.07" E	1544933.1757', 399051.3977'	1544963.2070', 398976.4892'									
16	Curve	31+19.41'	32+32.33'	112.920'		1544963.2070', 398976.4892'	1545055.9385', 398932.0813'	31+89.21'	1544989.1804', 398911.7024'	75°23'21"	85°07'46"	76.000'	69.799'	102.816'	27.189'	20.025
17	Line	32+32.33'	32+50.00'	17.666'	N 73° 01' 27.84" E	1545055.9385', 398932.0813'	1545072.8345', 398937.2391'									

PLAYGROUND DRIVE CENTERLINE

No.	Type	Start Station	End Station	Length (L)	Direction	Start Point (WV83-S E,N)	End Point (WV83-S E,N)	PI Station	PI Point (WV83-S E,N)	Degree of Curvature by Arc (Dc)	Delta angle (Δ)	Radius (R)	External Tangent (T)	Chord length (LC)	External Secant (E)	Mid-Ordinate (M)
1	Line	50+00.00'	50+38.28'	38.278'	S 85° 06' 45.07" E	1544562.7450', 399259.2659'	1544600.8839', 399256.0046'									
2	Curve	50+38.28'	51+31.69'	93.410'		1544600.8839', 399256.0046'	1544689.3516', 399228.3925'	50+85.73'	1544648.1649', 399251.9616'	26°38'57"	24°53'34"	215.000'	47.454'	92.677'	5.175'	5.053
3	Line	51+31.69'	51+50.01'	18.318'	S 60° 13' 10.60" E	1544689.3516', 399228.3925'	1544705.2503', 399219.2945'									
4	Curve	51+50.01'	52+29.18'	79.177'		1544705.2503', 399219.2945'	1544778.7837', 399190.7417'	51+89.89'	1544739.8683', 399199.4843'	21°37'16"	17°07'08"	265.000'	39.885'	78.882'	2.985'	2.952
5	Line	52+29.18'	53+70.00'	140.816'	S 77° 20' 18.28" E	1544778.7837', 399190.7417'	1544916.1753', 399159.8760'									

CENTER DRIVE CENTERLINE

No.	Type	Start Station	End Station	Length (L)	Direction	Start Point (WV83-S E,N)	End Point (WV83-S E,N)	PI Station	PI Point (WV83-S E,N)	Degree of Curvature by Arc (Dc)	Delta angle (Δ)	Radius (R)	External Tangent (T)	Chord length (LC)	External Secant (E)	Mid-Ordinate (M)
1	Line	60+00.00'	60+04.77'	4.768'	S 59° 57' 35.89" E	1544494.9477', 399138.7502'	1544499.0752', 399136.3634'									
2	Curve	60+04.77'	61+37.20'	132.434'		1544499.0752', 399136.3634'	1544626.5717', 399110.1394'	60+73.36'	1544558.4573', 399102.0238'	27°48'49"	36°50'05"	206.000'	68.596'	130.166'	11.121'	10.551
3	Line	61+37.20'	61+62.84'	25.641'	N 83° 12' 19.43" E	1544626.5717', 399110.1394'	1544652.0326', 399113.1730'									
4	Curve	61+62.84'	62+58.39'	95.547'		1544652.0326', 399113.1730'	1544747.2767', 399111.6143'	62+10.91'	1544699.7605', 399118.8597'	16°11'07"	15°27'52"	354.000'	48.065'	95.257'	3.248'	3.219
5	Line	62+58.39'	63+23.09'	64.702'	S 81° 19' 48.55" E	1544747.2767', 399111.6143'	1544811.2396', 399101.8610'									
6	Curve	63+23.09'	64+05.99'	82.901'		1544811.2396', 399101.8610'	1544892.9635', 399087.9662'	63+64.55'	1544852.2203', 399095.6121'	2°21'46"	1°57'31"	2425.000'	41.454'	82.897'	0.354'	0.354
7	Line	64+05.99'	64+39.00'	33.007'	S 79° 22' 17.21" E	1544892.9635', 399087.9662'	1544925.4044', 399081.8784'									

EXIT DRIVE CENTERLINE

No.	Type	Start Station	End Station	Length (L)	Direction	Start Point (WV83-S E,N)	End Point (WV83-S E,N)	PI Station	PI Point (WV83-S E,N)	Degree of Curvature by Arc (Dc)	Delta angle (Δ)	Radius (R)	External Tangent (T)	Chord length (LC)	External Secant (E)	Mid-Ordinate (M)
1	Line	10+00.00'	10+23.06'	23.064'	S 57° 08' 11.27" E	1544409.6232', 399036.4475'	1544428.9964', 399023.9319'									
2	Curve	10+23.06'	11+60.78'	137.717'		1544428.9964', 399023.9319'	1544560.3112', 398991.8927'	10+94.61'	1544489.0902', 398985.1097'	27°48'49"	38°18'14"	206.000'	71.543'	135.167'	12.070'	11.402
3	Line	11+60.78'	12+32.58'	71.797'	N 84° 33' 34.48" E	1544560.3112', 398991.8927'	1544631.7847', 398998.6998'									
4	Curve	12+32.58'	12+56.70'	24.124'		1544631.7847', 398998.6998'	1544655.8652', 399000.0385'	12+44.65'	1544643.7985', 398999.8440'	18°43'27"	4°31'01"	306.000'	12.068'	24.118'	0.238'	0.238
5	Line	12+56.70'	13+21.49'	64.789'	N 89° 04' 35.70" E	1544655.8652', 399000.0385'	1544720.6462', 399001.0827'									
6	Curve	13+21.49'	14+20.41'	98.922'		1544720.6462', 399001.0827'	1544818.0974', 398986.8005'	13+71.39'	1544770.5363', 399001.8868'	18°43'27"	18°31'20"	306.000'	49.897'	98.492'	4.041'	3.989
7	Line	14+20.41'	16+00.00'	179.586'	S 72° 24' 03.87" E	1544818.0974', 398986.8005'	1544989.2779', 398932.5023'									

WINEW DRIVE CENTERLINE

No.	Type	Start Station	End Station	Length (L)	Direction	Start Point (WV83-S E,N)	End Point (WV83-S E,N)	PI Station	PI Point (WV83-S E,N)	Degree of Curvature by Arc (Dc)	Delta angle (Δ)	Radius (R)	External Tangent (T)	Chord length (LC)	External Secant (E)	Mid-Ordinate (M)
1	Line	40+00.00'	40+72.91'	72.910'	N 39° 11' 59.88" E	1544416.0464', 399032.4566'	1544462.1277', 399088.9580'									
2	Curve	40+72.91'	41+20.28'	47.365'		1544462.1277', 399088.9580'	1544488.8599', 399127.9917'	40+96.65'	1544477.1309', 399107.3537'	20°14'45"	9°35'22"	283.000'	23.738'	47.310'	0.994'	0.99
3	Line	41+20.28'	42+56.65'	136.374'	N 29° 36' 37.67" E	1544488.8599', 399127.9917'	1544556.2423', 399246.5558'									
4	Curve	42+56.65'	42+99.94'	43.289'		1544556.2423', 399246.5558'	1544572.4126', 399286.5740'	42+78.42'	1544567.0001', 399265.4849'	35°09'03"	15°12'59"	163.000'	21.773'	43.162'	1.448'	1.435
5	Line	42+99.94'	43+65.00'	65.062'	N 14° 23' 38.77" E	1544572.4126', 399286.5740'	1544588.5863', 399349.5936'									

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THRASHER
THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.
CONTRACT No.
PROJECT No. 101-030-10264

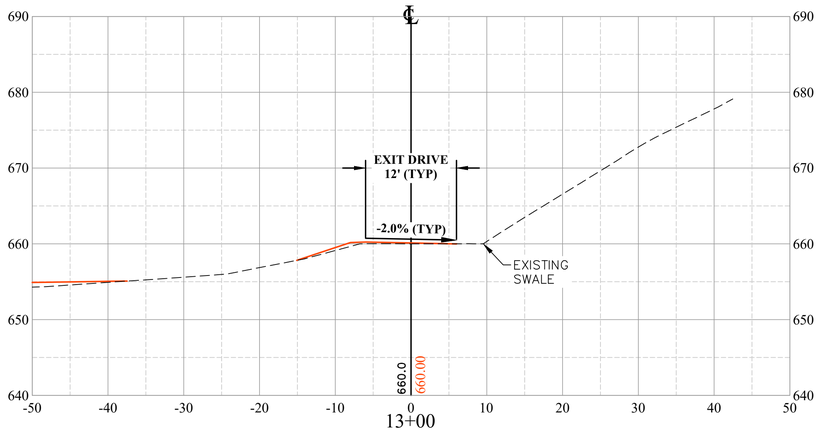
RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
GEOMETRIC TABLE

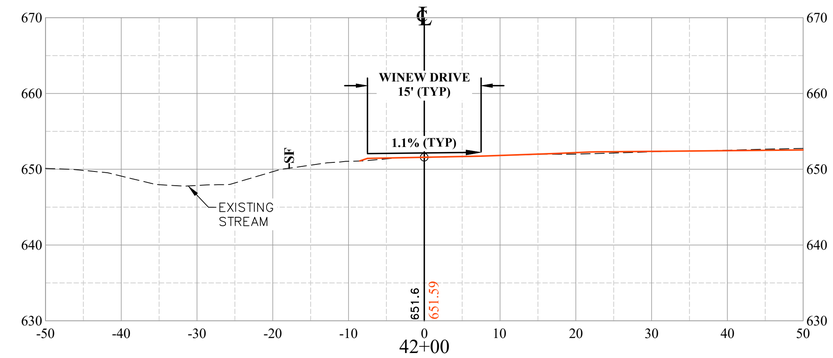
SHEET No. C6

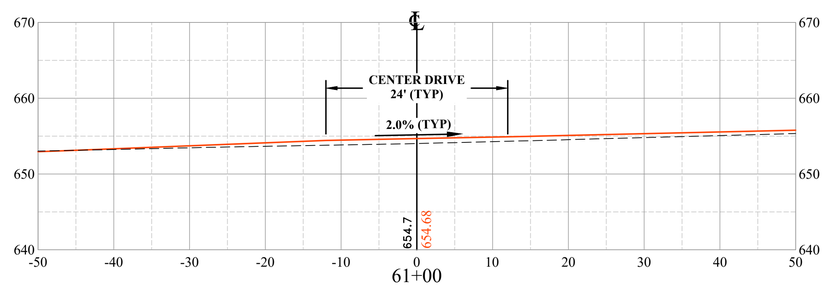
FULL SIZE PLAN SCALE:
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-GEOMETRIC LAYOUT.dwg
LAYOUT TAB: C6-GEOMETRIC TABLE
PLOT DATE/TIME: 5/17/2022 3:18 PM

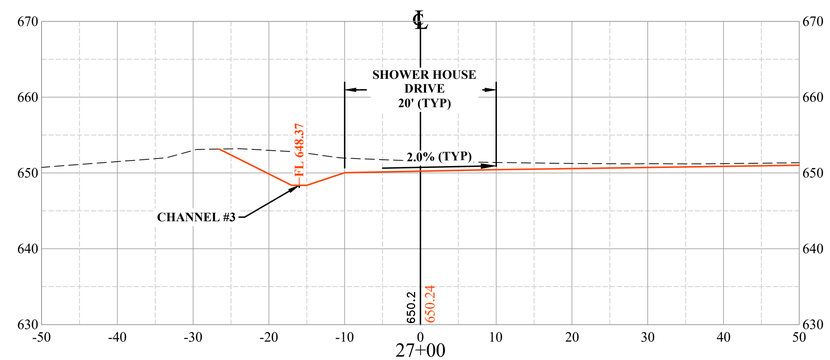
PROFILE LEGEND

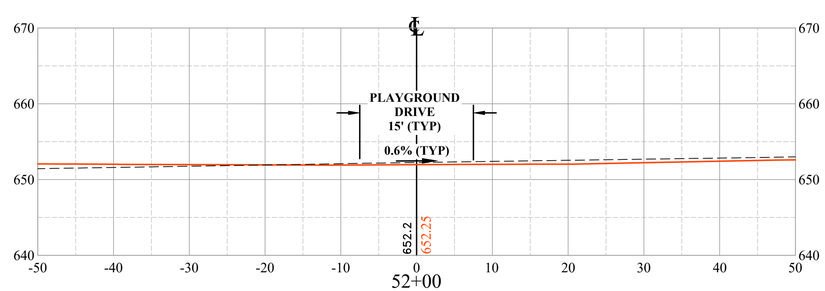
EXISTING GROUND
PROPOSED GRADE

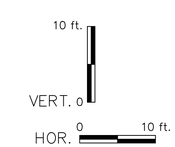












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THRASHER
THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.
CONTRACT No.
PROJECT No. 101-030-10264

RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
TYPICAL SECTIONS

SHEET No.
C7

FULL SIZE PLAN SCALE:
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-ROAD PLAN & PROFILES.dwg
LAYOUT TAB: C7 ROAD CROSS SECTIONS
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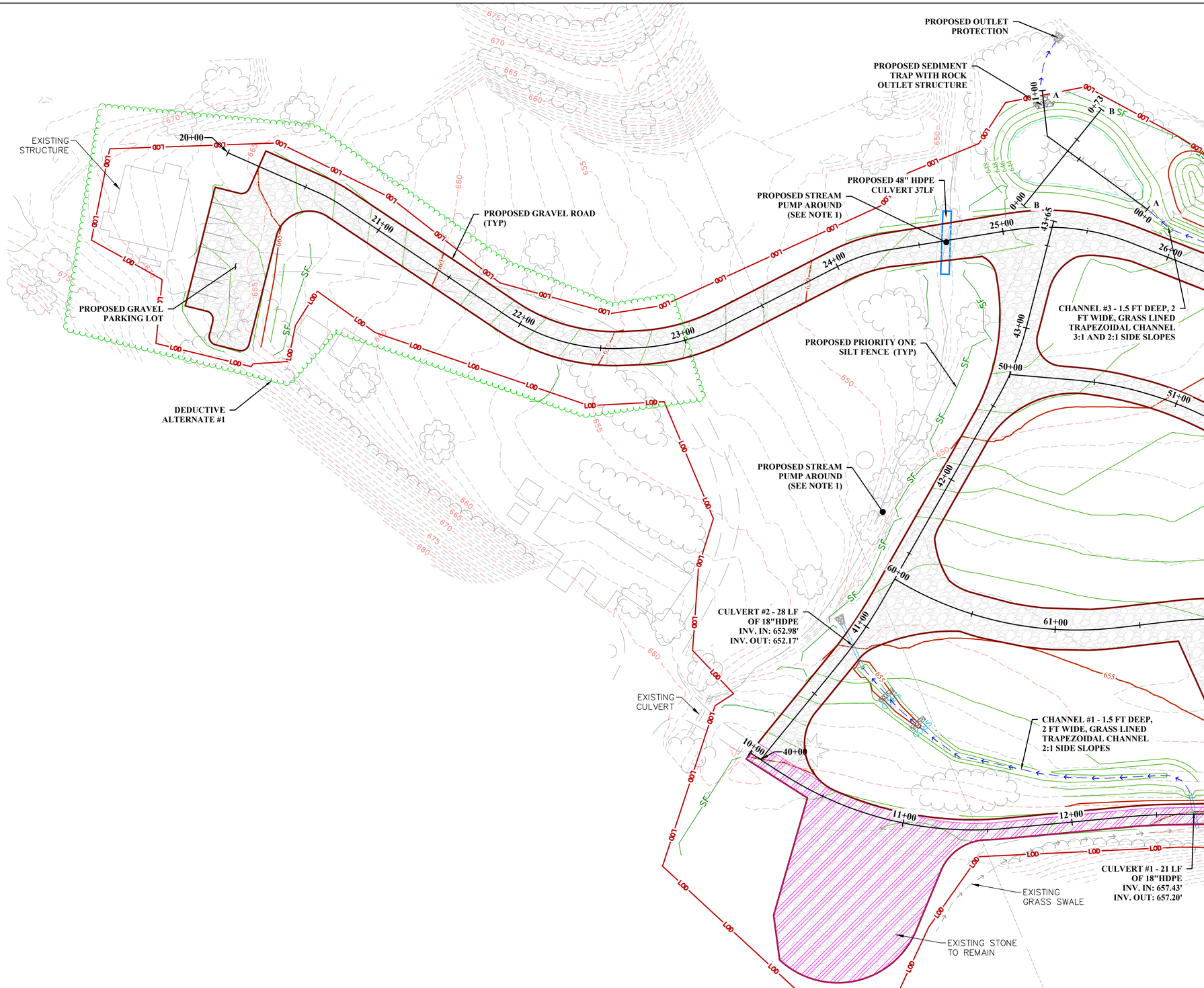

PLAN LEGEND

- EXISTING PROPERTY/ RW LINE
- EXISTING CONTOURS
- EXISTING STREAM
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING STRUCTURE
- EXISTING CULVERT
- EXISTING TREE LINE
- LOD — LIMIT OF DISTURBANCE
- PROPOSED CONTOURS
- SF — PROPOSED PRIORITY ONE SILT FENCE
- PROPOSED EROSION CONTROL MATTING LINED DITCH
- PROPOSED TEMPORARY SEDIMENT TRAP BOTTOM
- PROPOSED OUTLET PROTECTION
- PROPOSED GRAVEL SHOULDER
- PROPOSED CULVERT
- SRCD — PROPOSED ROCK CHECK DAM WITH SUMP

NOTES

1. DURING WATERLINE AND CULVERT INSTALLATION, A PUMP AROUND SHALL BE INSTALLED UNLESS INSTALLATION IS CONDUCTED DURING DRY CONDITIONS. (FOR PUMP AROUND DETAIL SEE SHEET D3)

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THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.
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PROJECT No. 101-030-10264

RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
E&S PLAN

SHEET No. ESC1

FULL SIZE PLAN SCALE:
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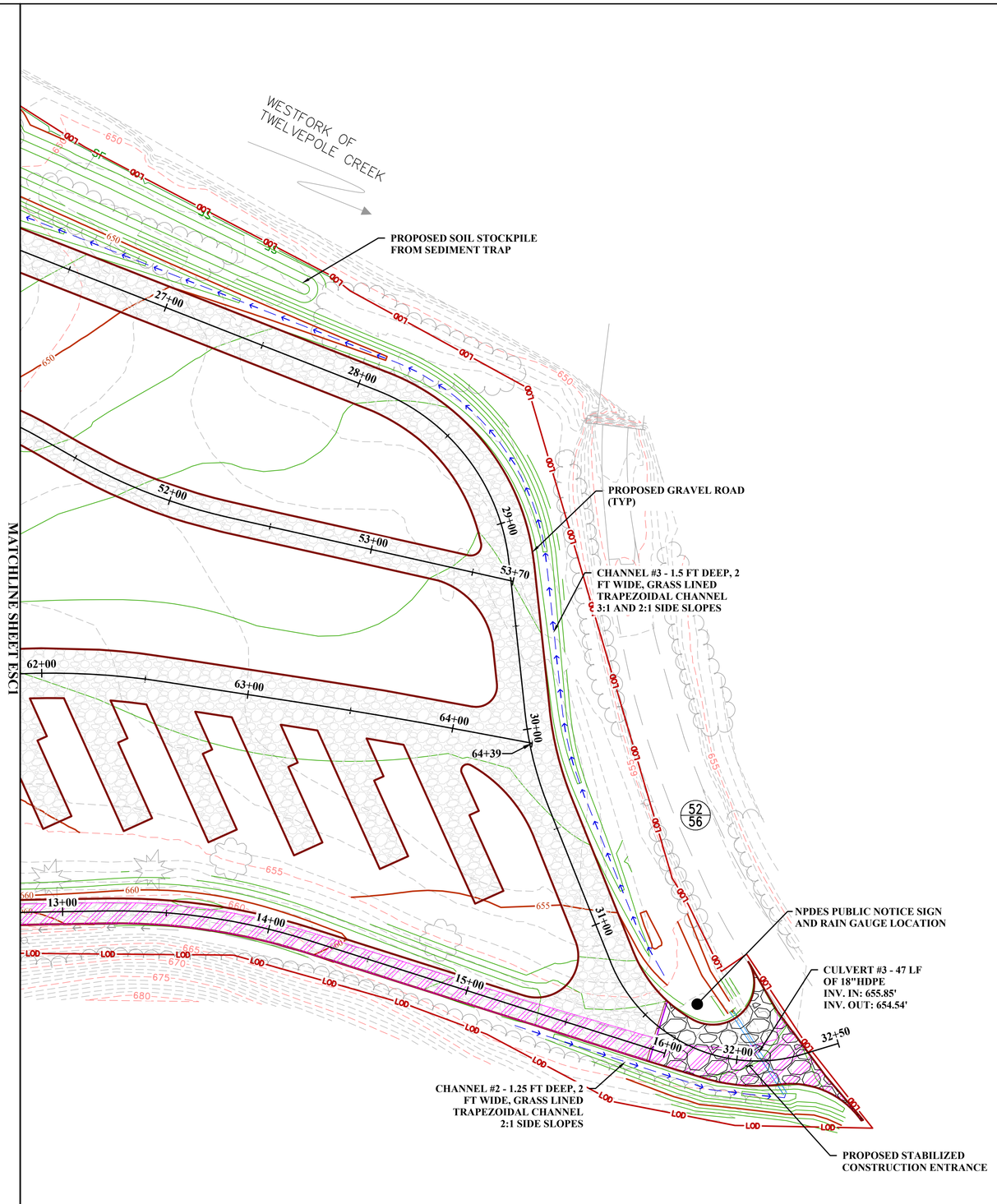

PLAN LEGEND

- EXISTING PROPERTY/ RW LINE
- EXISTING CONTOURS
- EXISTING STREAM
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING STRUCTURE
- EXISTING CULVERT
- EXISTING TREE LINE
- LOD — LIMIT OF DISTURBANCE
- PROPOSED CONTOURS
- SF — PROPOSED PRIORITY ONE SILT FENCE
- PROPOSED EROSION CONTROL MATTING LINED DITCH
- PROPOSED TEMPORARY SEDIMENT TRAP BOTTOM
- PROPOSED OUTLET PROTECTION
- PROPOSED GRAVEL SHOULDER
- PROPOSED CULVERT
- SRCD — PROPOSED ROCK CHECK DAM WITH SUMP

NORTH

30' 0 30' 60'

FULL SIZE PLAN SCALE:
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-E&S PLAN.dwg
LAYOUT TAB: ESC2 E&S PLAN
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THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108
FAX (304) 624-7831

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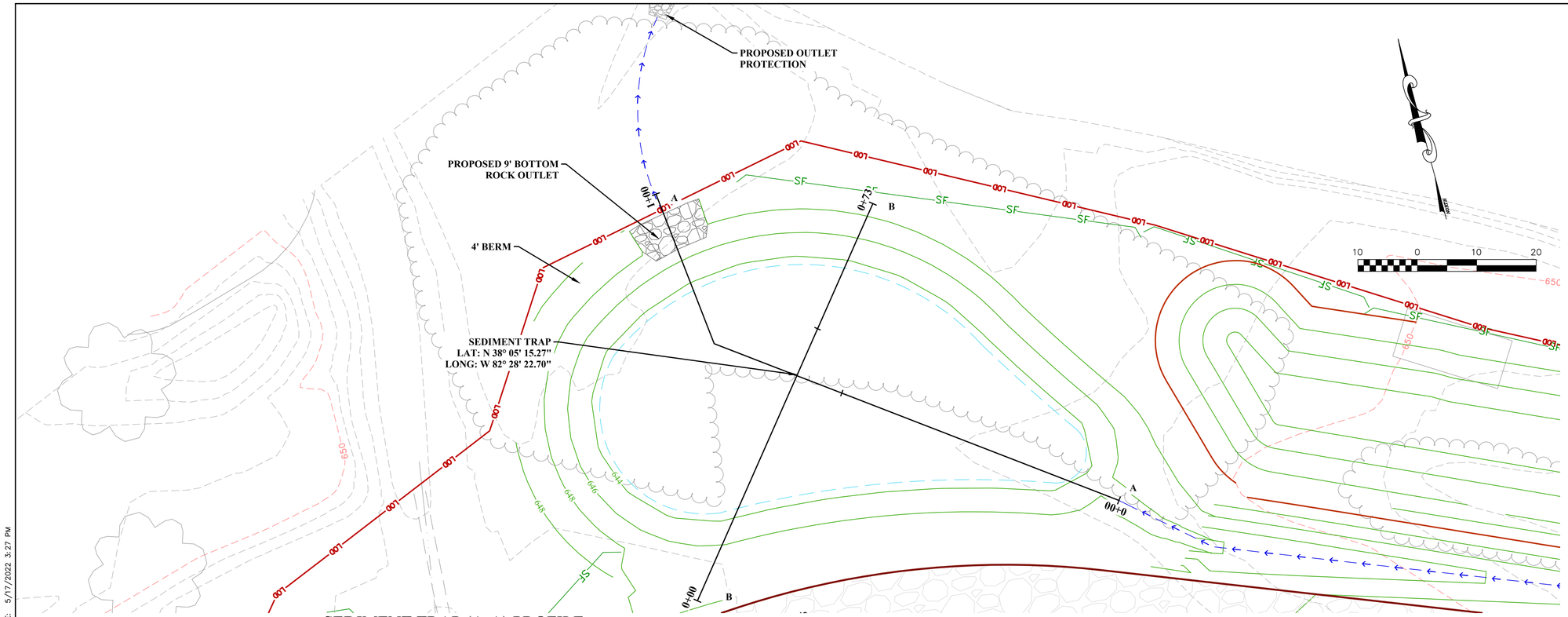
PROJECT No. 101-030-10264

RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
E&S PLAN

SHEET No. ESC2

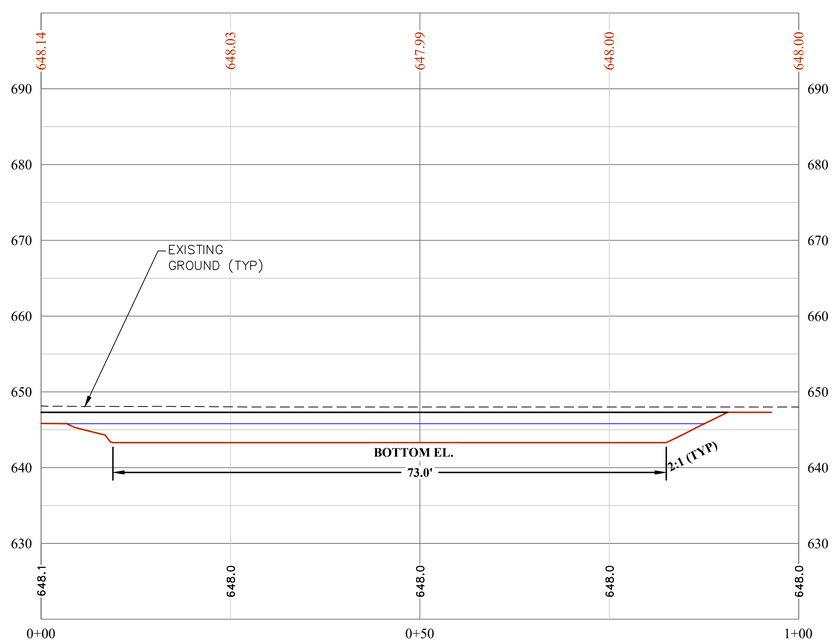


PLAN LEGEND

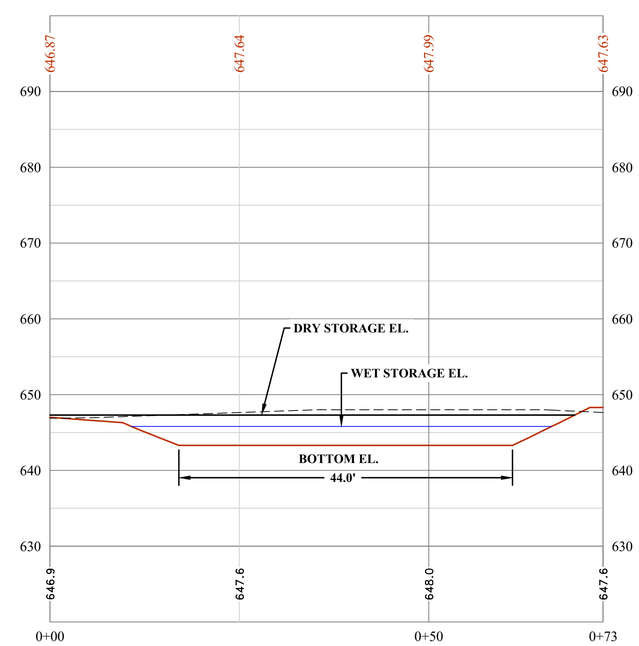
- EXISTING PROPERTY/ RW LINE
- EXISTING CONTOURS
- EXISTING STREAM
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING STRUCTURE
- EXISTING CULVERT
- EXISTING TREE LINE
- LOD — LIMIT OF DISTURBANCE
- PROPOSED CONTOURS
- SF — PROPOSED PRIORITY ONE SILT FENCE
- PROPOSED EROSION CONTROL MATTING LINED DITCH
- PROPOSED TEMPORARY SEDIMENT TRAP BOTTOM
- PROPOSED OUTLET PROTECTION
- PROPOSED GRAVEL SHOULDER
- PROPOSED CULVERT
- SRCD — PROPOSED ROCK CHECK DAM WITH SUMP

TEMPORARY SEDIMENT TRAP TABLE	
DRAINAGE AREA (AC)	3.50
REQUIRED VOLUME (CF)	12600.00
PROVIDED VOLUME (CF)	13066.00
BOTTOM EL. (FT)	643.30
TOP OF BERM EL. (FT)	648.30
WET STORAGE EL. (FT)	647.30
DRY STORAGE EL. (FT)	645.80

SEDIMENT TRAP (A-A) PROFILE



SEDIMENT TRAP (B-B) PROFILE



10 ft.
VERT. 0
HOR. 0 10 ft.

FULL SIZE PLAN SCALE:
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-E&S PLAN.dwg
LAYOUT TAB: ESC3 SEDIMENT TRAP PLAN AND PROFILE
PLOT DATE/TIME: 5/17/2022 3:27 PM

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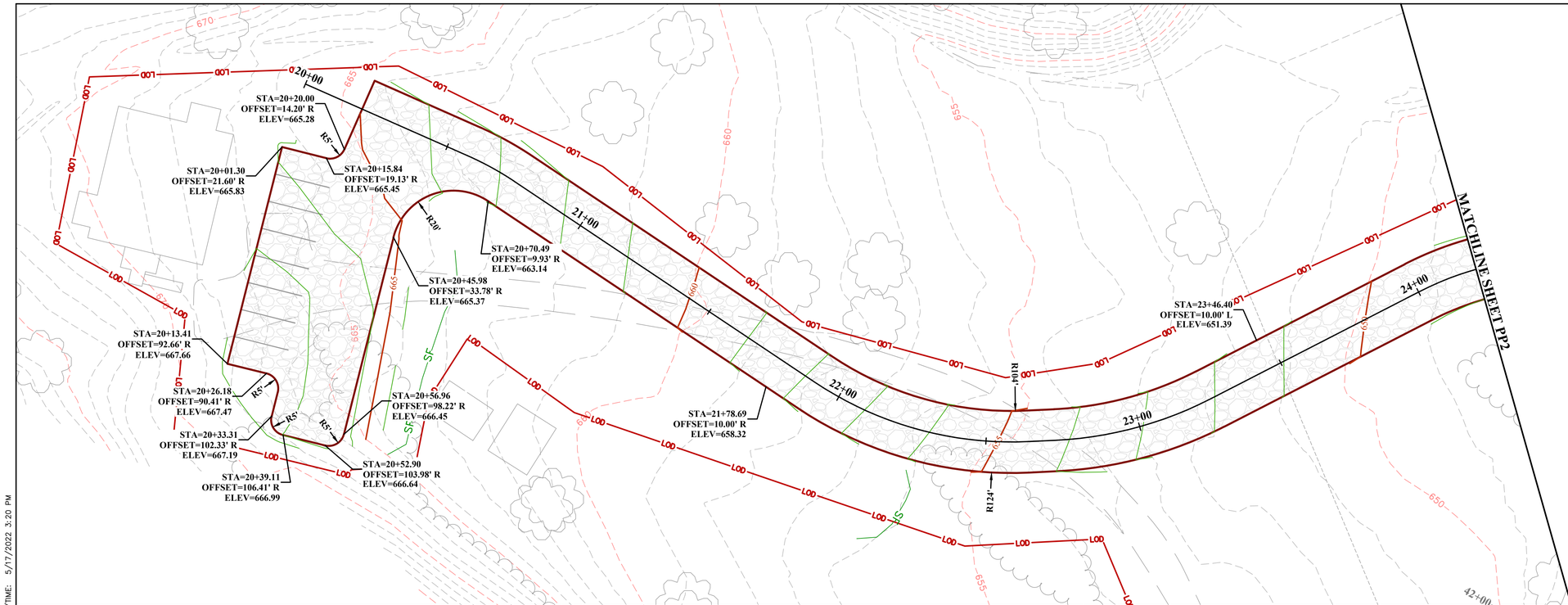
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.
CONTRACT No.
PROJECT No. 101-030-10264

RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
SEDIMENT TRAP PLAN AND PROFILE

SHEET No. ESC3

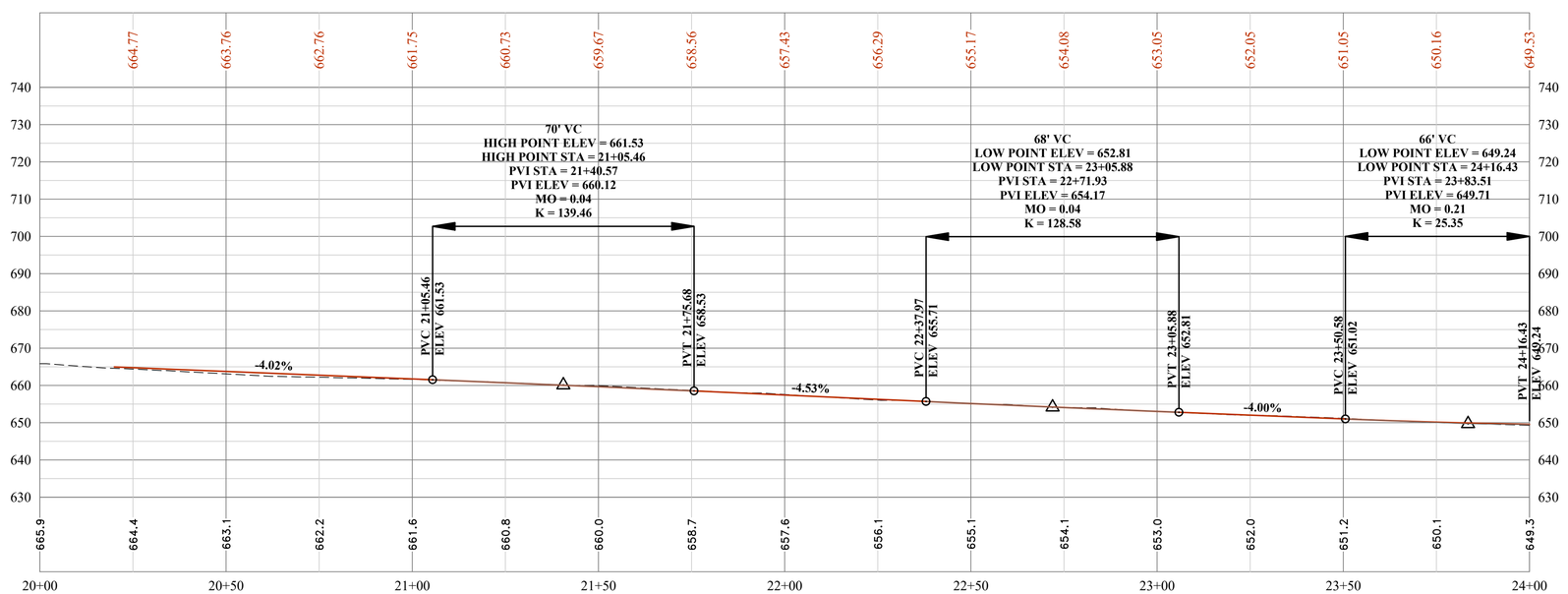


PLAN LEGEND

- EXISTING PROPERTY/ RW LINE
- EXISTING CONTOURS
- EXISTING STREAM
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING STRUCTURE
- EXISTING CULVERT
- EXISTING TREE LINE
- EXISTING STONE TO REMAIN
- LOD — LIMIT OF DISTURBANCE
- PROPOSED CONTOURS
- SF — PROPOSED PRIORITY ONE SILT FENCE
- PROPOSED EROSION CONTROL MATTING LINED DITCH
- PROPOSED TEMPORARY SEDIMENT TRAP BOTTOM
- PROPOSED OUTLET PROTECTION
- PROPOSED GRAVEL SHOULDER
- PROPOSED CULVERT
- SRCD — PROPOSED ROCK CHECK DAM WITH SUMP

20' 0 20' 40'

SHOWER HOUSE DRIVE PROFILE



PROFILE LEGEND

- EXISTING GROUND
- PROPOSED GRADE

20 ft.
VERT. 0
HOR. 0 20 ft.

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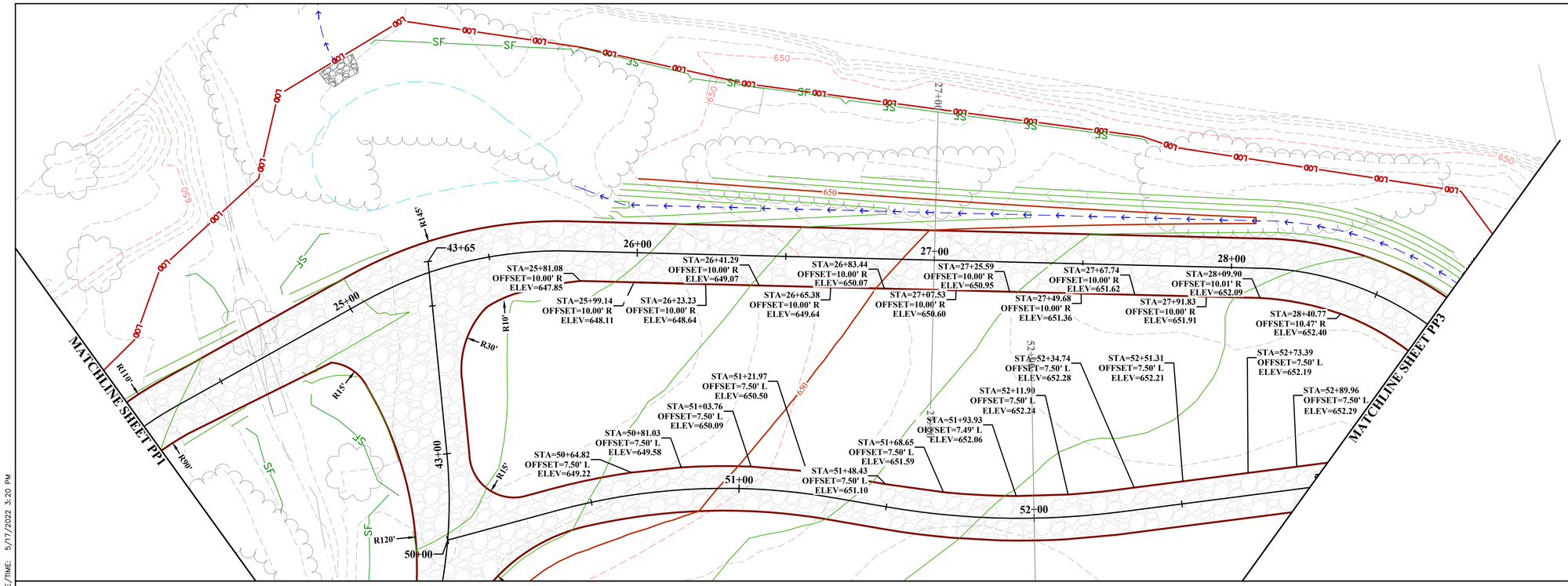
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
SHOWER HOUSE DRIVE PLAN & PROFILE

SHEET No. PP1

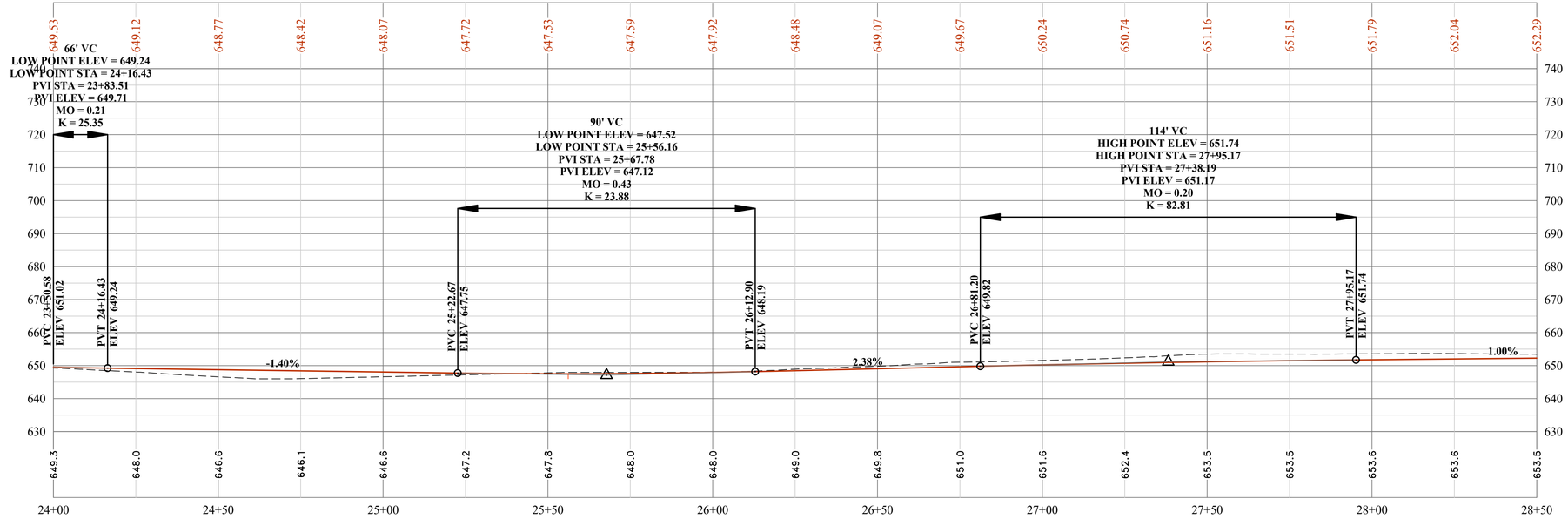
PLOT DATE/TIME: 5/17/2022 3:20 PM
LAYOUT TAB: PP1 SHOWER HOUSE DRIVE PLAN & PROFILE
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-ROAD PLAN & PROFILES.dwg
FULL SIZE PLAN SCALE:



PLAN LEGEND

- EXISTING PROPERTY/ RW LINE
- EXISTING CONTOURS
- EXISTING STREAM
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING STRUCTURE
- EXISTING CULVERT
- EXISTING TREE LINE
- EXISTING STONE TO REMAIN
- LOD — LIMIT OF DISTURBANCE
- PROPOSED CONTOURS
- SF — PROPOSED PRIORITY ONE SILT FENCE
- PROPOSED EROSION CONTROL MATTING LINED DITCH
- PROPOSED TEMPORARY SEDIMENT TRAP BOTTOM
- PROPOSED OUTLET PROTECTION
- PROPOSED GRAVEL SHOULDER
- PROPOSED CULVERT
- SRCD — PROPOSED ROCK CHECK DAM WITH SUMP

SHOWER HOUSE DRIVE PROFILE



PROFILE LEGEND

- EXISTING GROUND
- PROPOSED GRADE

20 ft. VERT. 0 — 0 HOR. 20 ft.

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PROJECT No. 101-030-10264

RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
SHOWER HOUSE DRIVE PLAN & PROFILE

SHEET No. PP2

PLOT DATE/TIME: 5/17/2022 3:20 PM
LAYOUT TAB: PP2 SHOWER HOUSE DRIVE PLAN & PROFILE
FULL SIZE PLAN SCALE:
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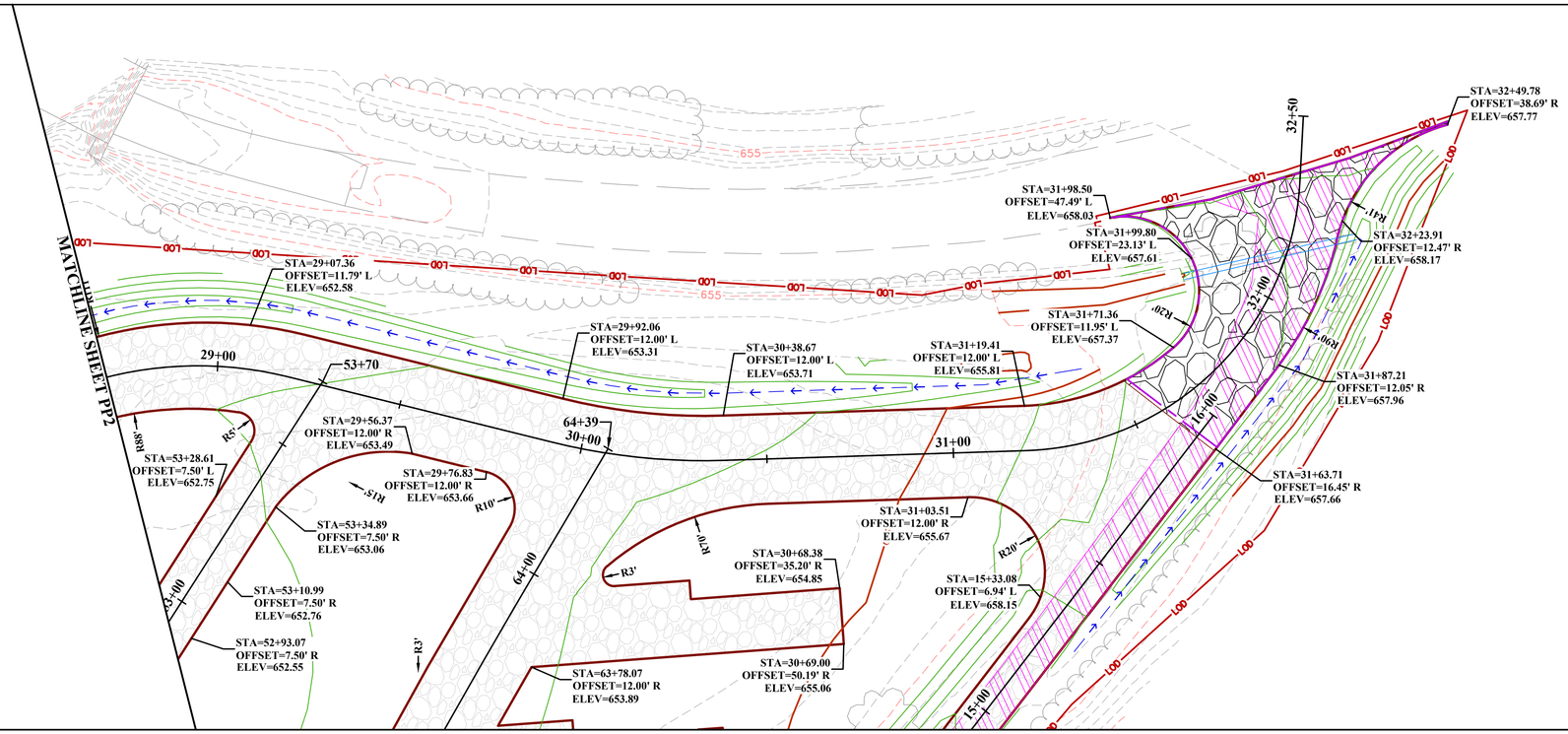


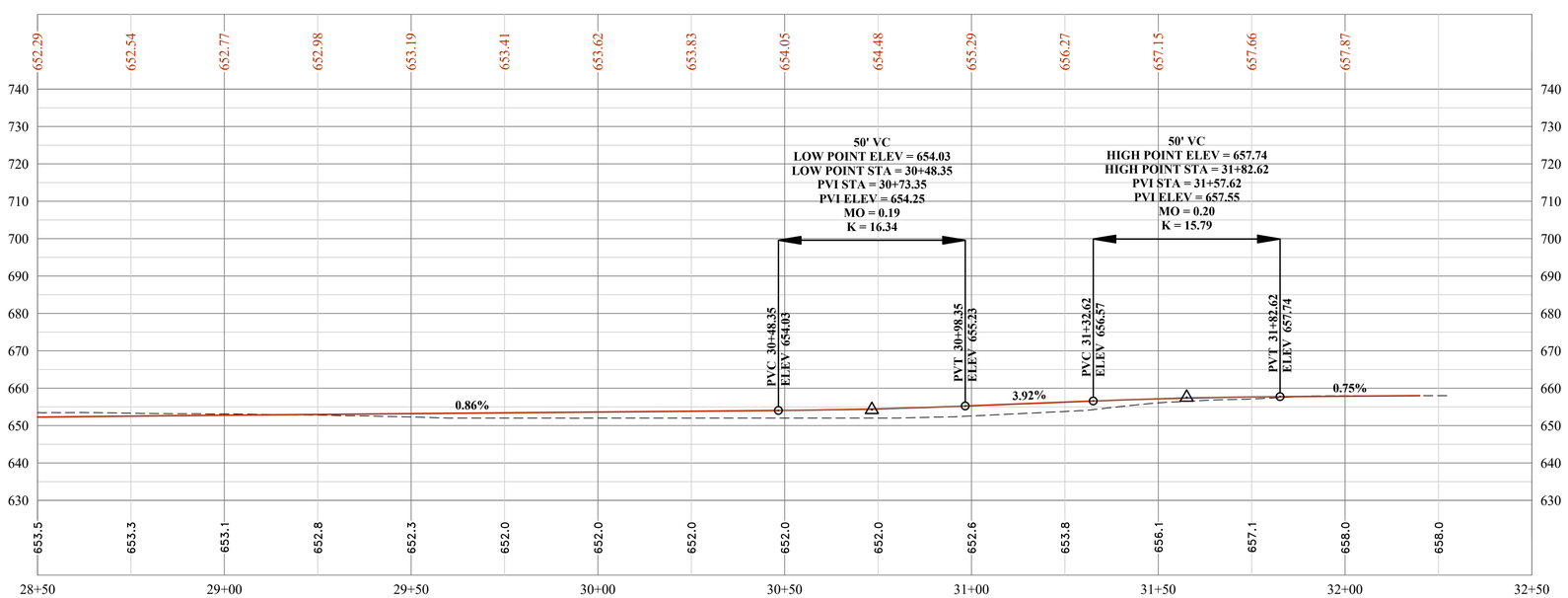
PLAN LEGEND

- EXISTING PROPERTY/ RW LINE
- EXISTING CONTOURS
- EXISTING STREAM
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING STRUCTURE
- EXISTING CULVERT
- EXISTING TREE LINE
- EXISTING STONE TO REMAIN
- LOD — LIMIT OF DISTURBANCE
- PROPOSED CONTOURS
- SF — PROPOSED PRIORITY ONE SILT FENCE
- PROPOSED EROSION CONTROL MATTING LINED DITCH
- PROPOSED TEMPORARY SEDIMENT TRAP BOTTOM
- PROPOSED OUTLET PROTECTION
- PROPOSED GRAVEL SHOULDER
- PROPOSED CULVERT
- SRCD — PROPOSED ROCK CHECK DAM WITH SUMP

NORTH

20' 0 20' 40'

SHOWER HOUSE DRIVE PROFILE



PROFILE LEGEND

- EXISTING GROUND
- PROPOSED GRADE

20 ft.
VERT. 0
HOR. 0 20 ft.

PLOT DATE/TIME: 5/17/2022 3:21 PM

LAYOUT TAB: PP3 SHOWER HOUSE DRIVE PLAN & PROFILE
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-ROAD PLAN & PROFILES.dwg

FULL SIZE PLAN SCALE:

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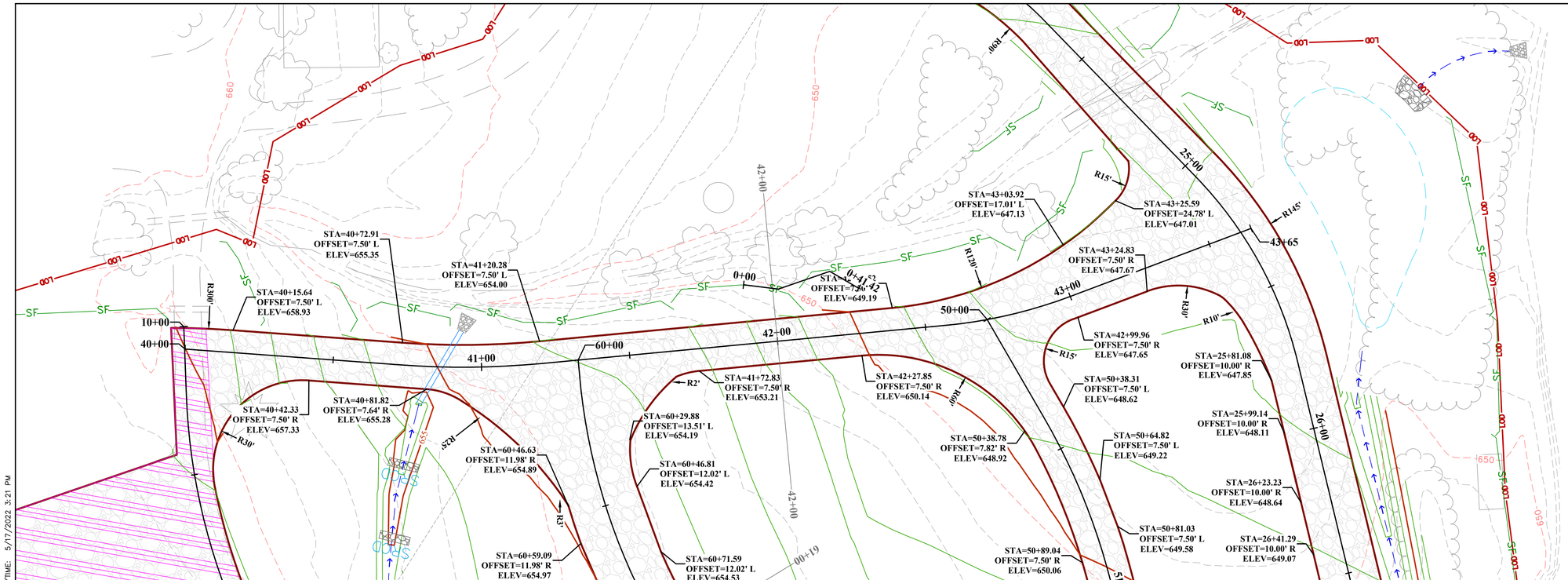
PROJECT No. 101-030-10264

RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
SHOWER HOUSE DRIVE PLAN & PROFILE

SHEET No. PP3



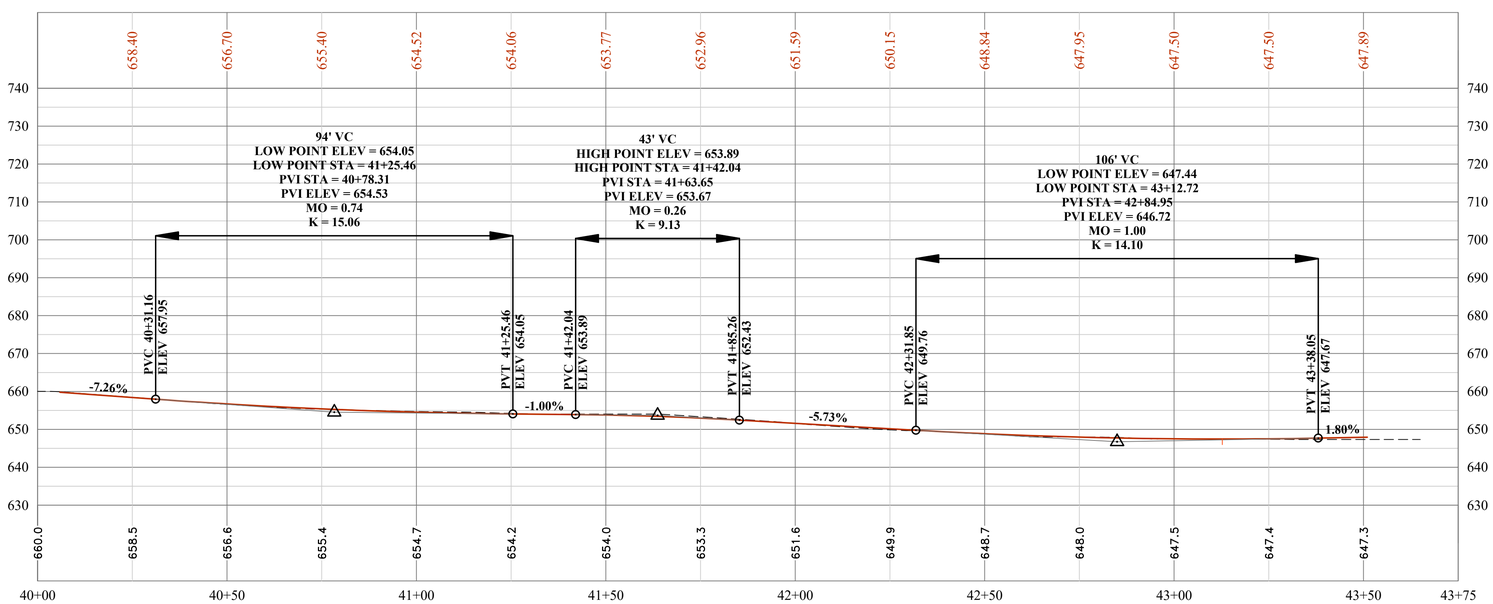
PLAN LEGEND

- EXISTING PROPERTY/ RW LINE
- EXISTING CONTOURS
- EXISTING STREAM
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING STRUCTURE
- EXISTING CULVERT
- EXISTING TREE LINE
- EXISTING STONE TO REMAIN
- LOD — LIMIT OF DISTURBANCE
- PROPOSED CONTOURS
- SF — PROPOSED PRIORITY ONE SILT FENCE
- PROPOSED EROSION CONTROL MATTING LINED DITCH
- PROPOSED TEMPORARY SEDIMENT TRAP BOTTOM
- PROPOSED OUTLET PROTECTION
- PROPOSED GRAVEL SHOULDER
- PROPOSED CULVERT
- SRCD — PROPOSED ROCK CHECK DAM WITH SUMP

NORTH

20' 0 20' 40'

WINEW DRIVE PROFILE



PROFILE LEGEND

- EXISTING GROUND
- PROPOSED GRADE

20 ft.
VERT. 0
HOR. 0 20 ft.

PLOT DATE/TIME: 5/17/2022 3:21 PM

LAYOUT TAB: PP4 WINEW DRIVE PLAN & PROFILE

FULL SIZE PLAN SCALE: CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-ROAD PLAN & PROFILES.dwg

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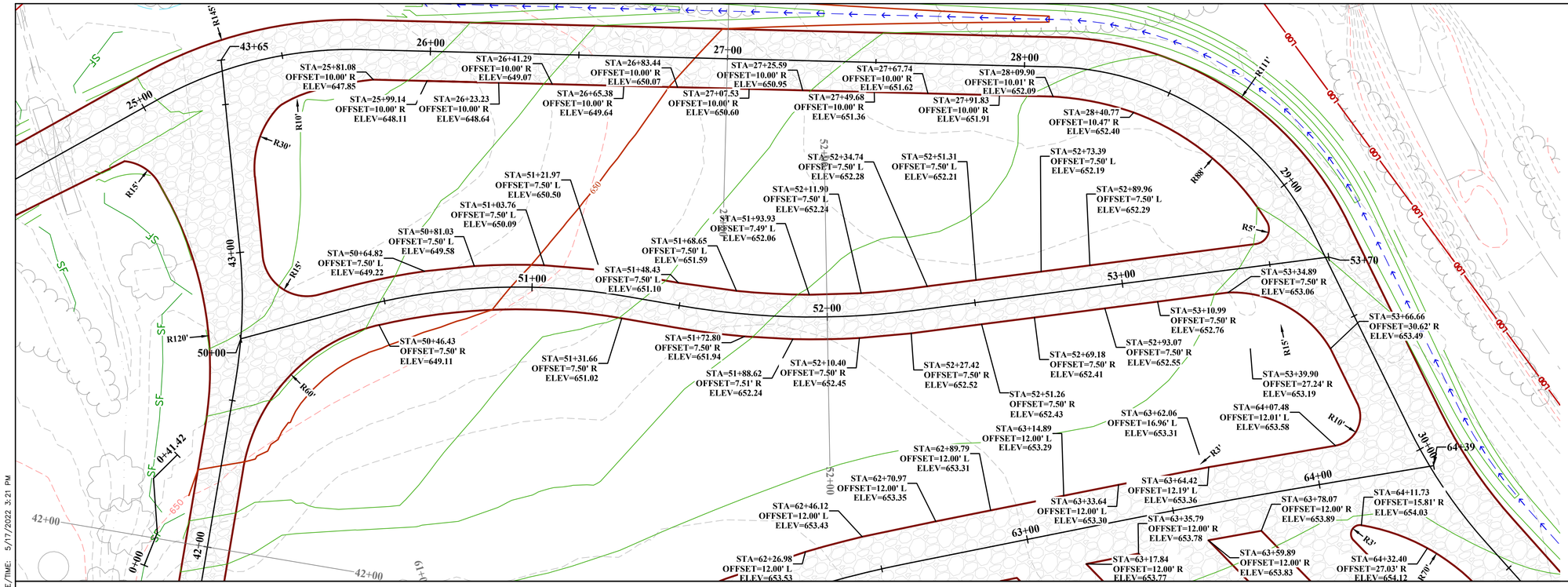
CONTRACT No.
PROJECT No. 101-030-10264

RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
WINEW DRIVE PLAN & PROFILE

SHEET No. PP4



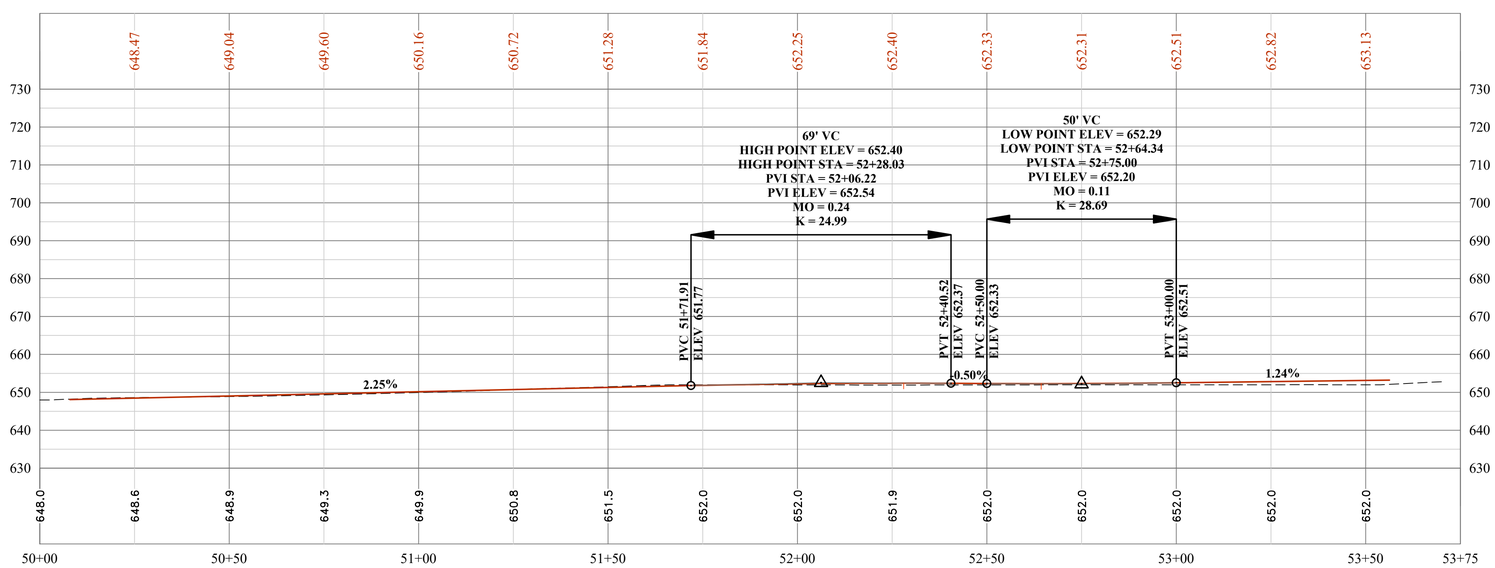
PLAN LEGEND

- EXISTING PROPERTY/ RW LINE
- EXISTING CONTOURS
- EXISTING STREAM
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING STRUCTURE
- EXISTING CULVERT
- EXISTING TREE LINE
- EXISTING STONE TO REMAIN
- LOD — LIMIT OF DISTURBANCE
- PROPOSED CONTOURS
- SF — PROPOSED PRIORITY ONE SILT FENCE
- PROPOSED EROSION CONTROL MATTING LINED DITCH
- PROPOSED TEMPORARY SEDIMENT TRAP BOTTOM
- PROPOSED OUTLET PROTECTION
- PROPOSED GRAVEL SHOULDER
- PROPOSED CULVERT
- SRCD — PROPOSED ROCK CHECK DAM WITH SUMP

PROFILE LEGEND

- EXISTING GROUND
- PROPOSED GRADE

PLAYGROUND DRIVE PROFILE



20 ft.
VERT. 0
0 20 ft.
HOR.

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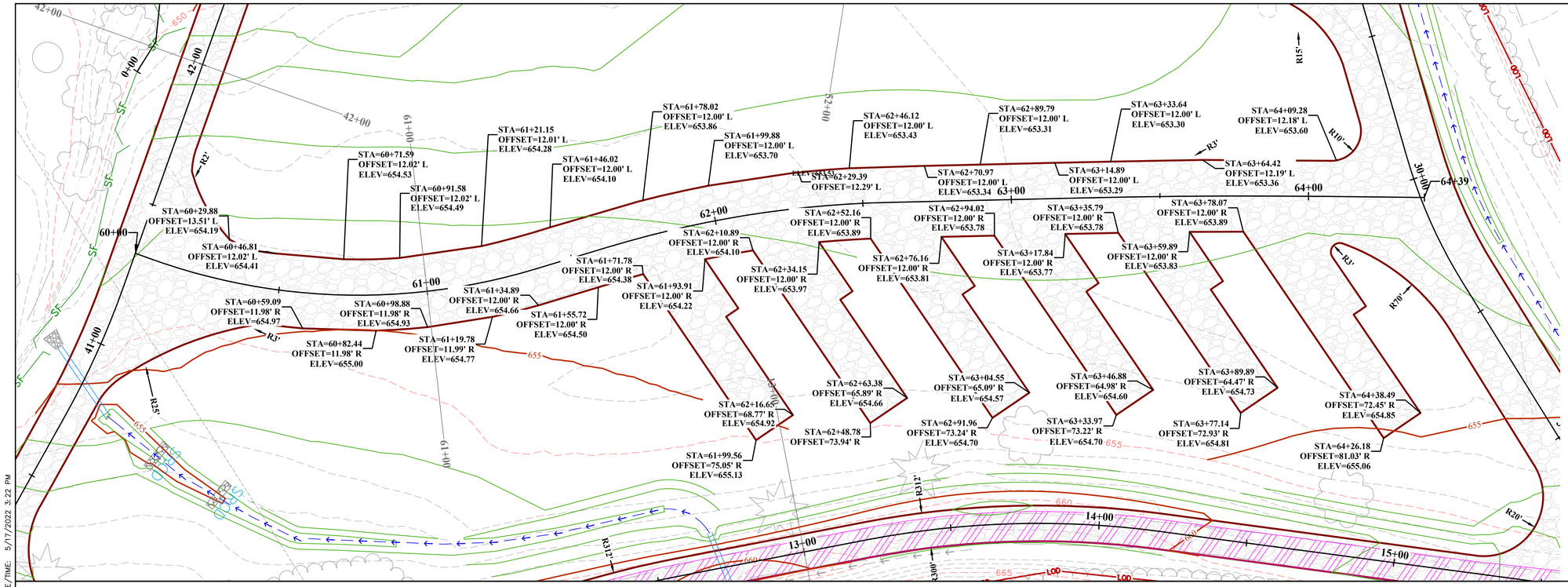
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
PLAYGROUND DRIVE PLAN & PROFILE

SHEET No. PP5

FULL SIZE PLAN SCALE:
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-ROAD PLAN & PROFILES.dwg
LAYOUT TAB: PP5 PLAYGROUND DRIVE PLAN & PROFILE
PLOT DATE/TIME: 5/17/2022 3:21 PM



PLAN LEGEND

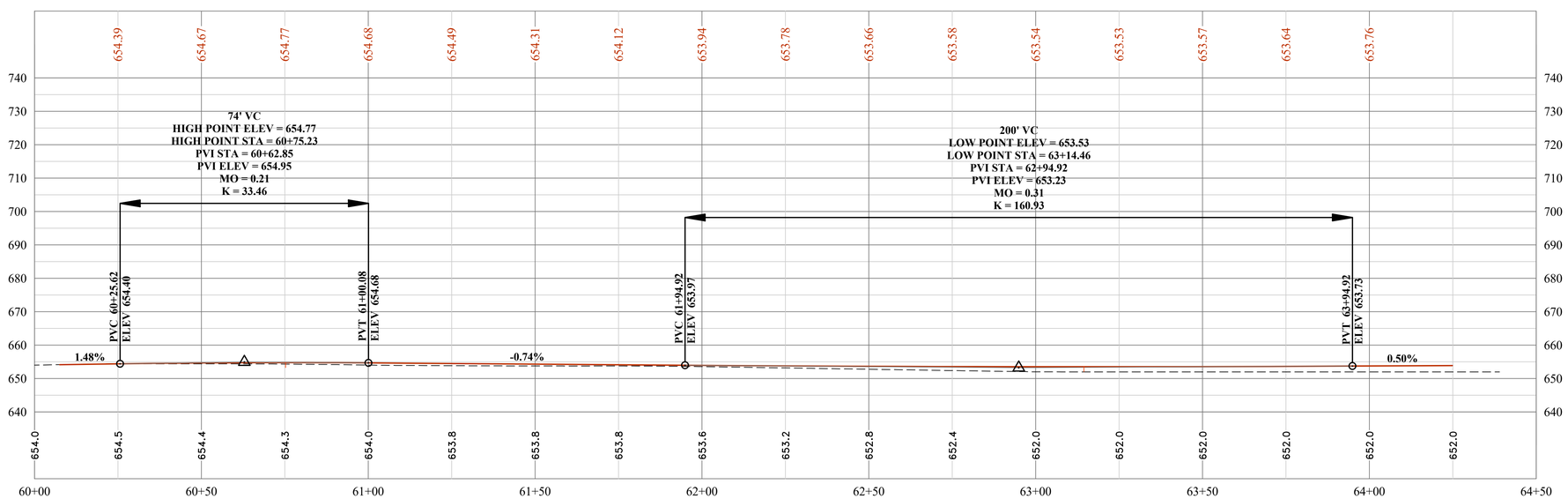
- EXISTING PROPERTY/ RW LINE
- EXISTING CONTOURS
- EXISTING STREAM
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING STRUCTURE
- EXISTING CULVERT
- EXISTING TREE LINE
- EXISTING STONE TO REMAIN
- LIMIT OF DISTURBANCE
- PROPOSED CONTOURS
- PROPOSED PRIORITY ONE SILT FENCE
- PROPOSED EROSION CONTROL MATTING LINED DITCH
- PROPOSED TEMPORARY SEDIMENT TRAP BOTTOM
- PROPOSED OUTLET PROTECTION
- PROPOSED GRAVEL SHOULDER
- PROPOSED CULVERT
- PROPOSED ROCK CHECK DAM WITH SUMP

20' 0 20' 40'

PROFILE LEGEND

- EXISTING GROUND
- PROPOSED GRADE

CENTER DRIVE PROFILE



20 ft.
VERT. 0
0 20 ft.
HOR.

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CONTRACT No.
PROJECT No. 101-030-10264

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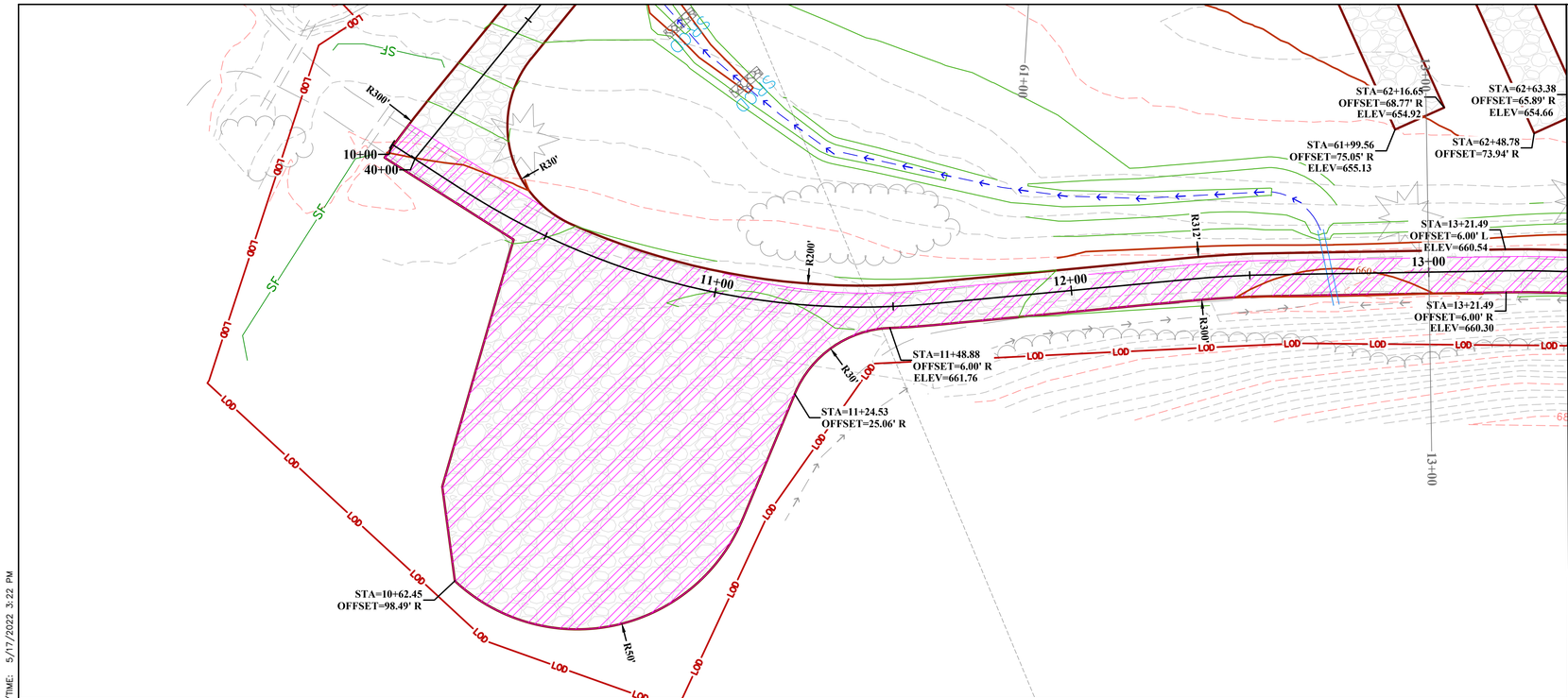
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
CENTER DRIVE PLAN & PROFILE

SHEET No. PP6

PLOT DATE/TIME: 5/17/2022 3:22 PM
LAYOUT TAB: PP6 CENTER DRIVE PLAN & PROFILE
FULL SIZE PLAN SCALE:
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-ROAD PLAN & PROFILES.dwg



PLAN LEGEND

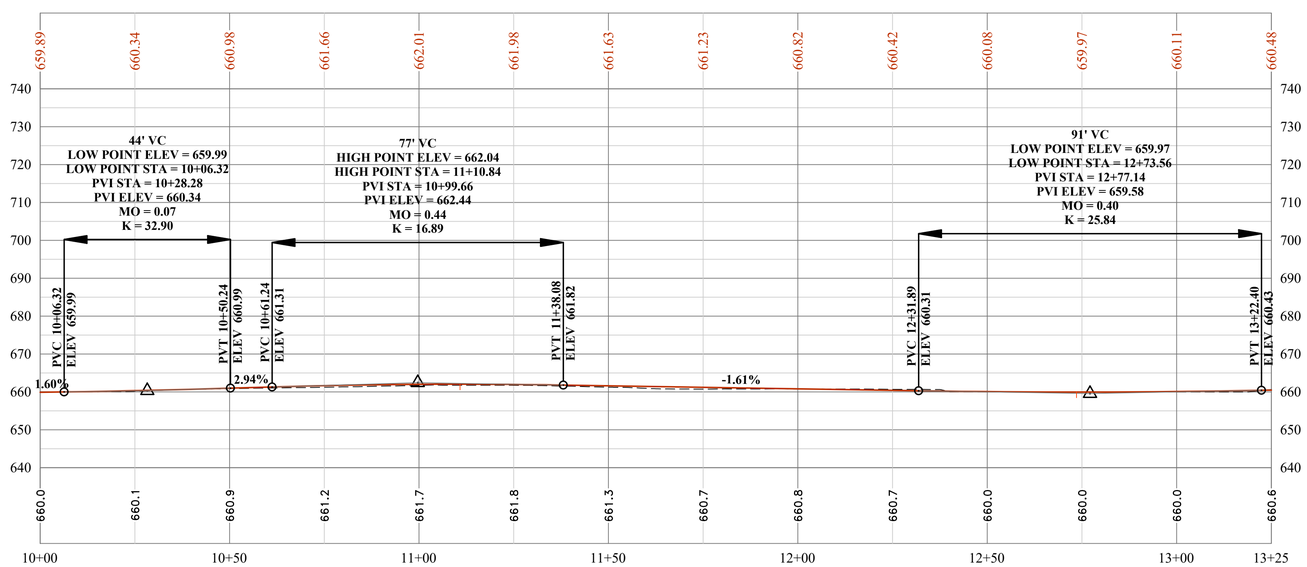
- EXISTING PROPERTY/ RW LINE
- EXISTING CONTOURS
- EXISTING STREAM
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING STRUCTURE
- EXISTING CULVERT
- EXISTING TREE LINE
- EXISTING STONE TO REMAIN
- LOD — LIMIT OF DISTURBANCE
- PROPOSED CONTOURS
- SF — PROPOSED PRIORITY ONE SILT FENCE
- PROPOSED EROSION CONTROL MATTING LINED DITCH
- PROPOSED TEMPORARY SEDIMENT TRAP BOTTOM
- PROPOSED OUTLET PROTECTION
- PROPOSED GRAVEL SHOULDER
- PROPOSED CULVERT
- SRCD — PROPOSED ROCK CHECK DAM WITH SUMP

20' 0 20' 40'

PROFILE LEGEND

- EXISTING GROUND
- PROPOSED GRADE

EXIT DRIVE PROFILE



20 ft.
VERT. 0
HOR. 0 20 ft.

PLOT DATE/TIME: 5/17/2022 3:22 PM

LAYOUT TAB: PP7 EXIT DRIVE PLAN & PROFILE
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-ROAD PLAN & PROFILES.dwg

FULL SIZE PLAN SCALE:

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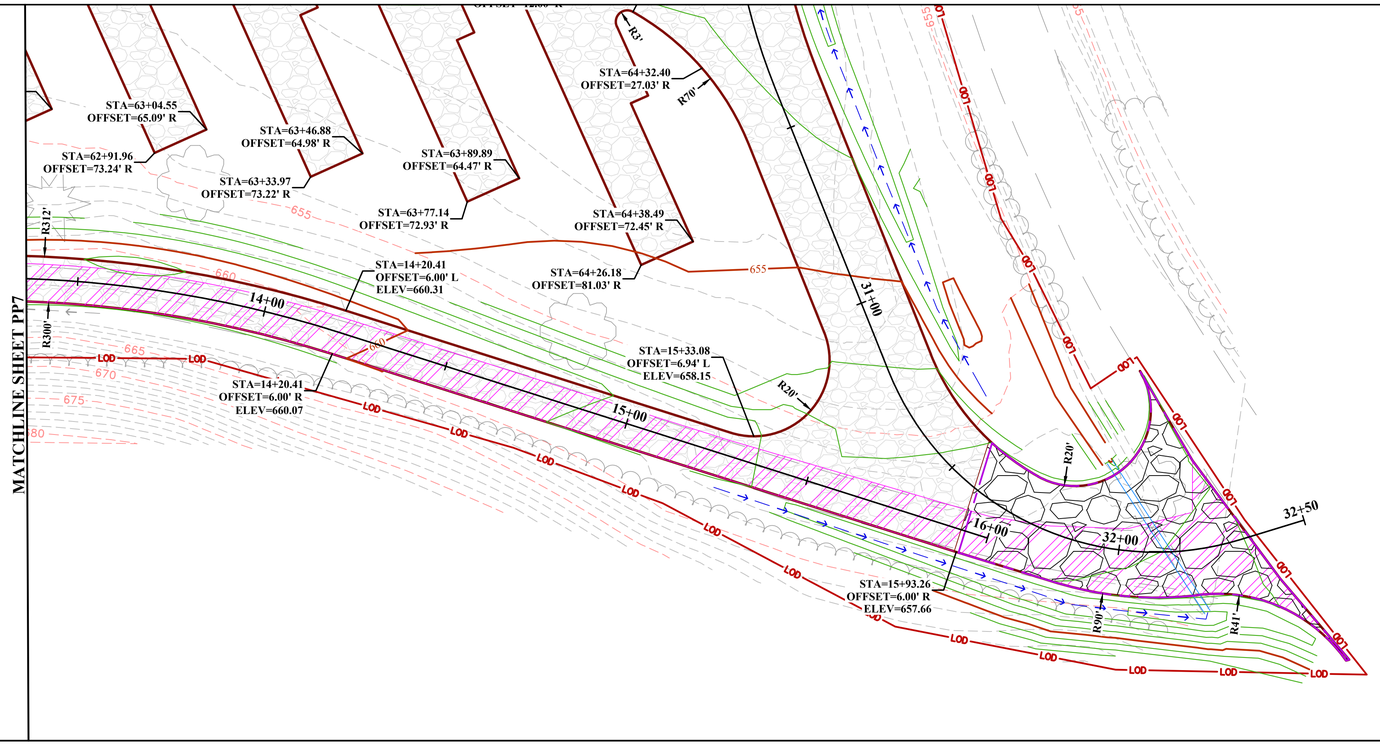
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
EXIT DRIVE PLAN & PROFILE

SHEET No. PP7



PLAN LEGEND

- EXISTING PROPERTY/ RW LINE
- EXISTING CONTOURS
- EXISTING STREAM
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING STRUCTURE
- EXISTING CULVERT
- EXISTING TREE LINE
- EXISTING STONE TO REMAIN
- LOD — LIMIT OF DISTURBANCE
- PROPOSED CONTOURS
- SF — PROPOSED PRIORITY ONE SILT FENCE
- PROPOSED EROSION CONTROL MATTING LINED DITCH
- PROPOSED TEMPORARY SEDIMENT TRAP BOTTOM
- PROPOSED OUTLET PROTECTION
- PROPOSED GRAVEL SHOULDER
- PROPOSED CULVERT
- SRCD — PROPOSED ROCK CHECK DAM WITH SUMP

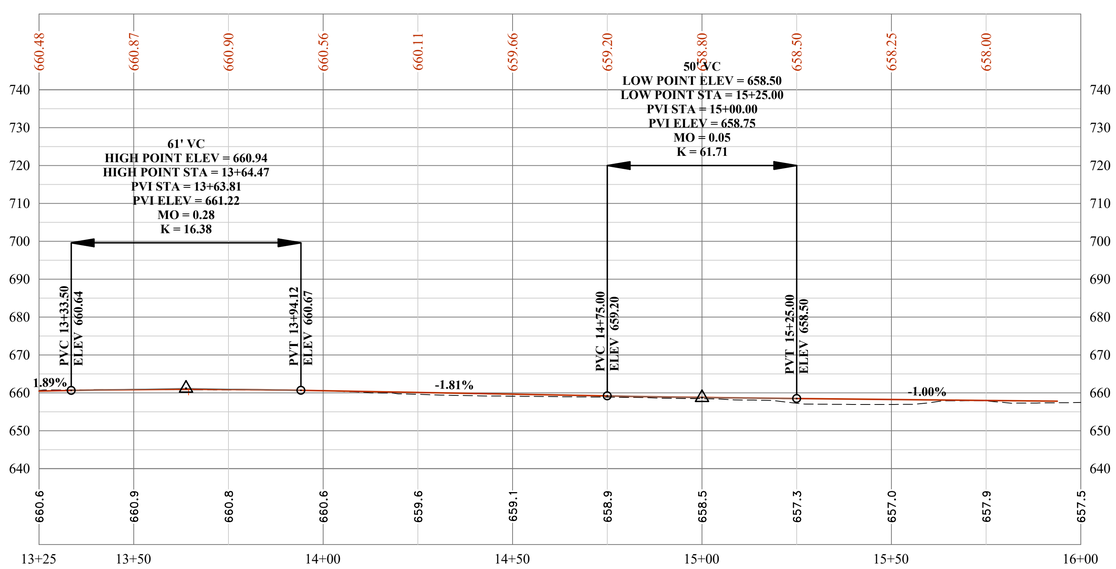
20' 0 20' 40'

NORTH

PROFILE LEGEND

- EXISTING GROUND
- PROPOSED GRADE

EXIT DRIVE PROFILE



20 ft.
VERT. 0
0 20 ft.
HOR.

PLOT DATE/TIME: 5/17/2022 3:23 PM

LAYOUT TAB: PP8 EXIT DRIVE PLAN & PROFILE
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-ROAD PLAN & PROFILES.dwg

FULL SIZE PLAN SCALE:

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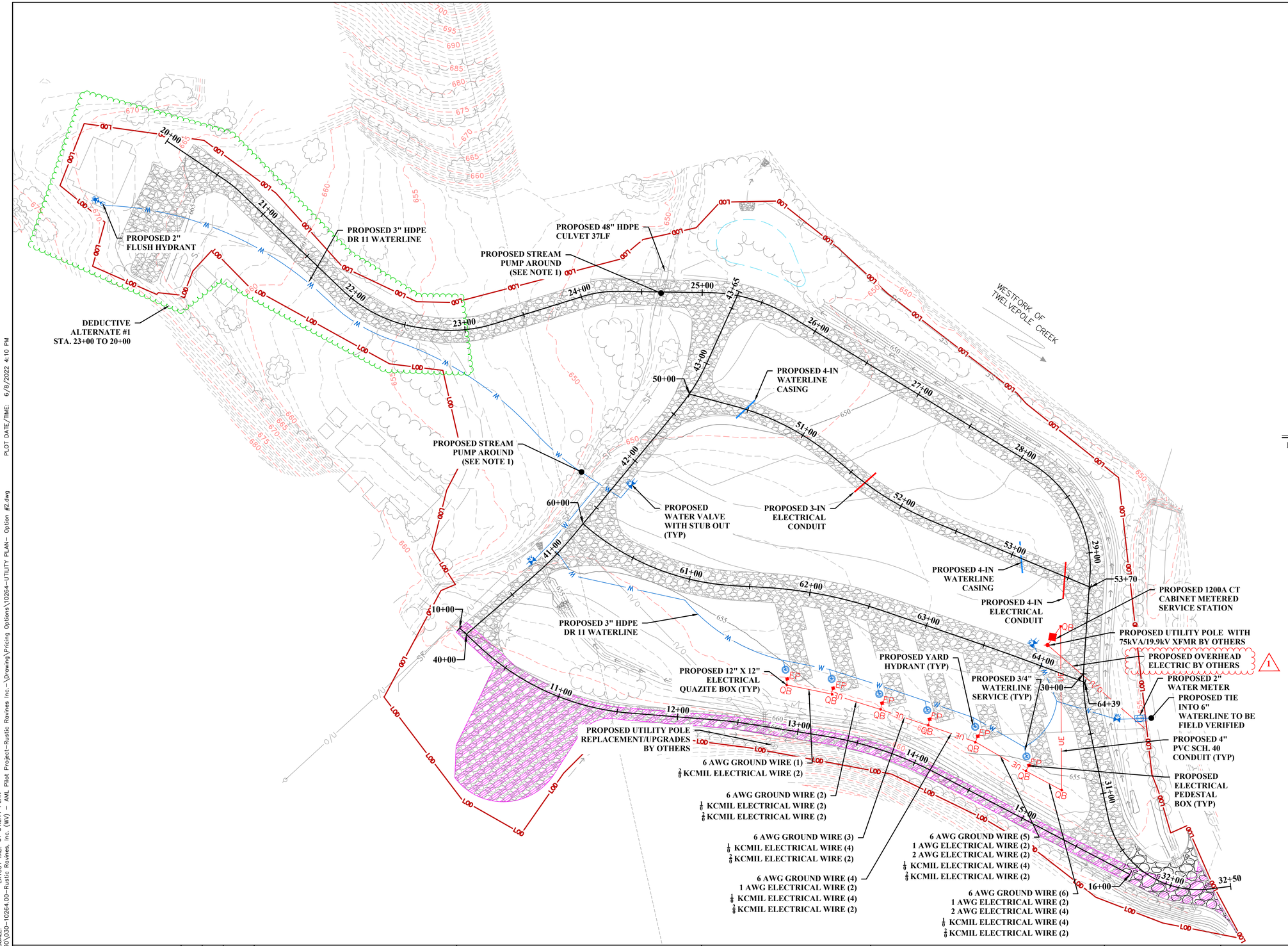
APPROVED: DATE:
SURVEY DATE:
SURVEY BY:
FIELD BOOK No.:

THRASHER
THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.
CONTRACT No.
PROJECT No. 101-030-10264

RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
EXIT DRIVE PLAN & PROFILE

SHEET No. PP8



PLAN LEGEND

- EXISTING ZIP LINE
- EXISTING CONTOURS
- EXISTING STREAM
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UTILITY POLE
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING STRUCTURE
- EXISTING CULVERT
- EXISTING TREE LINE
- EXISTING STONE TO REMAIN
- LIMIT OF DISTURBANCE
- PROPOSED CONTOURS
- PROPOSED PRIORITY ONE SILT FENCE
- PROPOSED EROSION CONTROL MATTING LINED DITCH
- PROPOSED OUTLET PROTECTION
- PROPOSED GRAVEL SHOULDER
- PROPOSED CULVERT
- PROPOSED ROCK CHECK DAM WITH SUMP
- PROPOSED STACKED COMPOST FILTER SOCK
- PROPOSED 2" & 3/4" SERVICE WATERLINE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED OVERHEAD ELECTRIC
- PROPOSED ELECTRICAL PEDESTAL BOX
- PROPOSED ELECTRICAL QUAZITE BOX
- PROPOSED YARD HYDRANT
- PROPOSED WATER VALVE
- PROPOSED PRESSURE VALVE WITH STUB OUT
- PROPOSED WATER METER

NOTES

1. DURING WATERLINE AND CULVERT INSTALLATION, A PUMP AROUND SHALL BE INSTALLED UNLESS INSTALLATION IS CONDUCTED DURING DRY CONDITIONS. (FOR PUMP AROUND DETAIL SEE SHEET D3)

PLOT DATE/TIME: 6/8/2022 4:10 PM

FULL SIZE PLAN SCALE: LAYOUT TAB: U1 UTILITY PLAN
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\Pricing Options\10264-UTILITY PLAN- Option #2.dwg

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NO.	BY	DATE	DESCRIPTION
1	JJH	6.8.2022	CLARIFICATION OF AEP RESPONSIBILITIES

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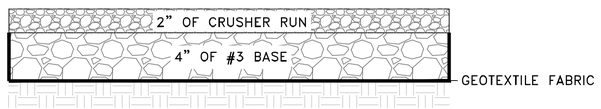
RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
UTILITY PLAN

SHEET No. U1



GRAVEL DRIVE SECTION
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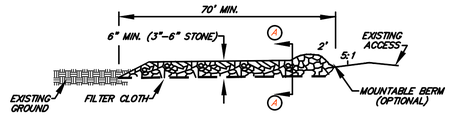
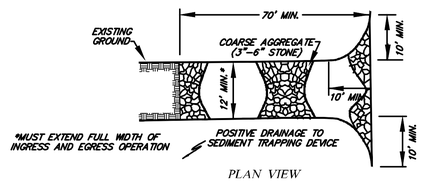
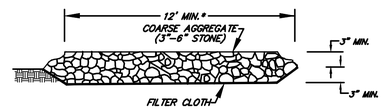


SIDE ELEVATION



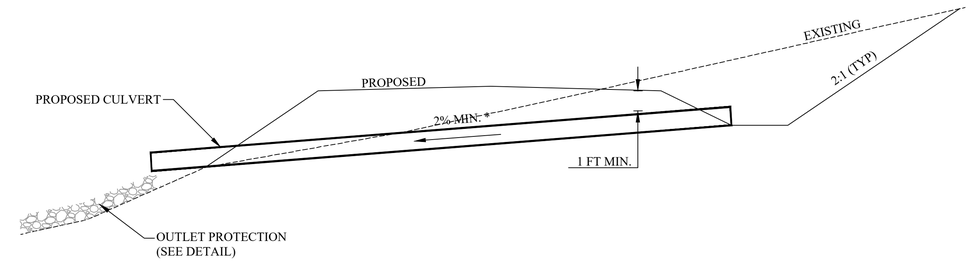
PLAN VIEW



SECTION A - A

CERTAIN INSTALLATIONS SHALL WARRANT THE ADDITION OF A 3" THICK "CAP" LAYER OF 1 1/2" CLEAN STONE, WHEN INSTALLED AT THE LOCATION OF AN EXISTING DRIVEWAY OR VEHICULAR ACCESS. FOR ALL INSTALLATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF SUCH.

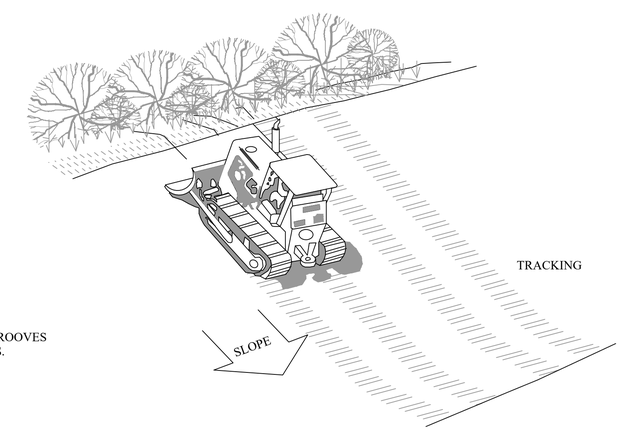
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



NOTES:

1. 2% MINIMUM SLOPE EXCEPT WHERE NOTED ON PLANS.
*. CULVERTS IN STREAMS SHALL BE LAID AT 0% AND COUNTERSUNK

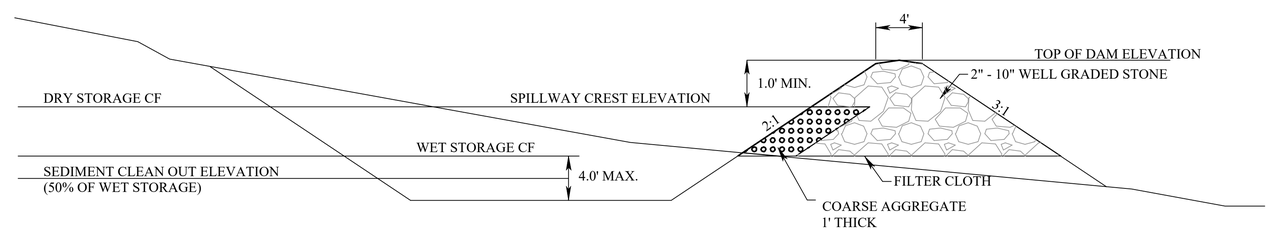
PROPOSED CULVERT INSTALLATION
NOT TO SCALE

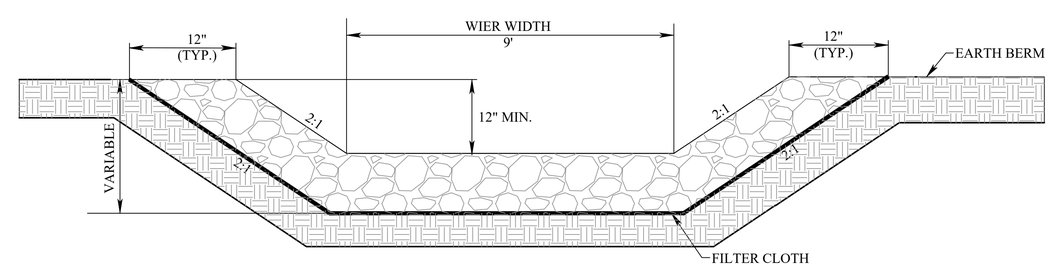


NOTE:

CULTIVATING APPROVED DOZER TREADS CREATE GROOVES PERPENDICULAR TO THE SLOPE PER SPECIFICATIONS.

TRACKING CONSTRUCTED SLOPE
NOT TO SCALE





SEDIMENT TRAP WITH ROCK OUTLET
NOT TO SCALE

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CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
DETAILS

SHEET No. D1

FULL SIZE PLAN SCALE:
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-DETAILS.dwg
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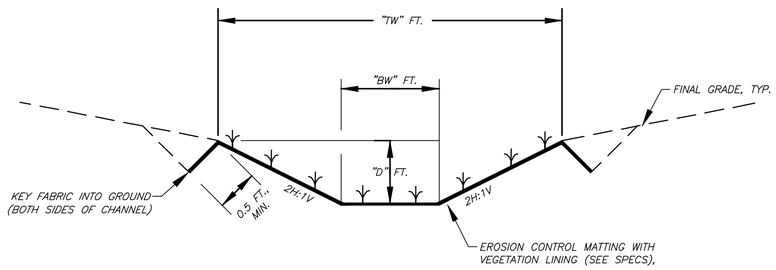
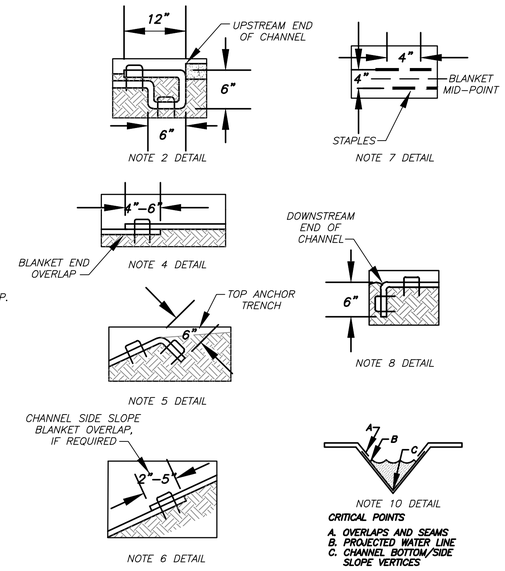
PLOT DATE/TIME: 5/17/2022 3:30 PM



GRASS LINED "TRAPEZOIDAL" CHANNEL



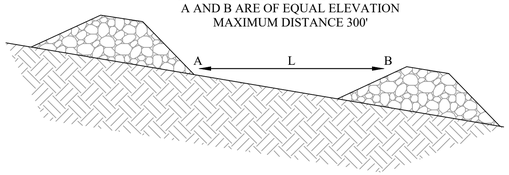
NOTES:

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE UPSTREAM END THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" ACROSS THE WIDTH OF THE BLANKET.
3. ROLL CENTER BLANKET IN DIRECTION IF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (DEPENDING ON BLANKET TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE DOWNSTREAM END OF THE CHANNEL BLANKET MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
9. IN LOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTH GREATER THAN 6" MAY BE REQUIRED TO PROPERLY ANCHOR THE BLANKET.
10. HORIZONTAL STAPLE SPACING SHOULD BE ALTERED, IF NECESSARY, TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
11. PERMANENT SEED MIXTURE, IN ACCORDANCE WITH THE SPECIFICATIONS, SHALL BE USED FOR VEGETATED CHANNELS EXCEPT CROWNVETCH (CORONILLA VARIA) AT 20 LBS./AC. SHALL BE SUBSTITUTED FOR BIRDSFOOT TREFOIL.
12. THE EXCAVATED CHANNEL SHALL BE FREE OF LARGE ROCKS OR ORGANIC DEBRIS PRIOR TO PLACEMENT OF EROSION CONTROL BLANKETS. EROSION CONTROL BLANKETS SHALL ALSO BE FREE OF WRINKLES OR FOLDS.
13. "TW" = TOP WIDTH
    "BW" = BOTTOM WIDTH
    "D" = DEPTH

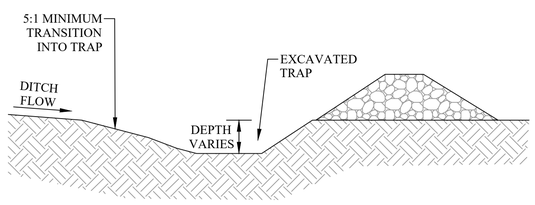
GRASS LINED CHANNEL

NOT TO SCALE

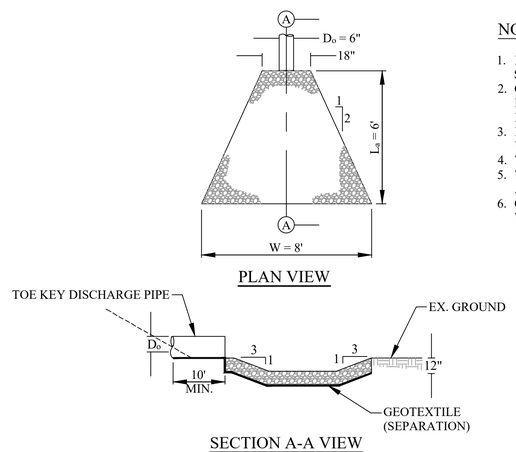
L = THE DISTANCE SUCH THAT POINT A AND B ARE OF EQUAL ELEVATION MAXIMUM DISTANCE 300'



CHECK DAM SPACING



CHECK DAM WITH SUMP



NOTES:

1. LENGTH OF OUTLET PROTECTION SHALL EXTEND BEYOND THE TOE OF ANY FILL SLOPE SO AS TO DISCHARGE ONTO UNDISTURBED GROUND.
2. GEOTEXTILE (SEPARATION) SHALL BE BURIED BENEATH THE PROPOSED CULVERT A MINIMUM ON THREE (3) FEET MEASURED FROM WHERE THE DISCHARGE PIPE DAYLIGHTS.
3. DISCHARGE PIPE SLOPE SHALL BE FIELD ADJUSTED AS NEEDED TO MINIMIZE THE WATER OUTFALL HEIGHT. SLOPE SHALL NOT BE LESS THAN 1.0% MINIMUM.
4. THE WATER OUTFALL HEIGHT SHALL NOT EXCEED SIX (6) INCHES.
5. THE MAXIMUM AGGREGATE SIZE SHALL BE SIX (6) INCH AND THE AVERAGE AGGREGATE (D_{50}) SIZE SHALL BE THREE (3) INCH.
6. COMPACTED BACKFILL SHALL BE INSTALLED AND COMPACTED IN ACCORDANCE WITH THE APPLICABLE GENERAL NOTES CONTAINED WITHIN THESE PLANS.

DISCHARGE OUTLET PROTECTION

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RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
DETAILS

SHEET No. D2

FULL SIZE PLAN SCALE: LAYOUT TAB: D2 DETAILS PLOT DATE/TIME: 5/17/2022 3:31 PM
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-DETAILS.dwg

MAINTENANCE SCHEDULE

1. ALL EROSION CONTROL BMPs SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING THE RGULAR INSPECTIONS OF THE BMPs AND FOR PERFORMING ANY REQUIRED MAINTENANCE.
3. THE FOLLOWING MAINTENANCE INSTRUCTIONS, CLEANOUT LEVELS, AND ACTION TIME FRAMES SHALL BE STRICTLY ADHERED TO.

BMP: ROCK FILTER OUTLET

MAINTENANCE: INSPECT WEEKLY AND AFTER EACH RUNOFF EVENT. INITIATE NEEDED REPAIRS IMMEDIATELY AFTER INSPECTION.

CLEANOUT LEVEL : 1/3 THE HEIGHT OF THE OUTLET.

ACTION TIME FRAME: ACCUMULATED SEDIMENT SHALL BE REMOVED WITHIN 24 HOURS.

BMP: STANDARD SILT SOCK

MAINTENANCE: INSPECT WEEKLY AND AFTER EACH RUNOFF EVENT. INITIATE NEEDED REPAIRS IMMEDIATELY AFTER INSPECTION. ANY DAMAGED SECTION SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF INSPECTION.

CLEANOUT LEVEL: 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK.

ACTION TIME FRAME: ACCUMULATED SEDIMENT SHALL BE REMOVED WITHIN 24 HOURS.

BMP: SEDIMENT FILTER BAG

MAINTENANCE: SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. KEEP PUMP INTAKE SCREENS FLOATING AND FREE OF DEBRIS.

CLEANOUT LEVEL: REPLACE SEDIMENT FILTER BAG WHEN 1/2 FULL.

ACTION TIME FRAME: REPLACE SEDIMENT FILTER BAG WITHIN 1 HOUR AFTER BECOMING 1/2 FULL, OR SOONER IF PUMPING CONDITIONS WARRANT.

BMP: PUMP BYPASS

MAINTENANCE: PUMP BYPASS SYSTEM SHALL BE INSPECTED ONCE PER HOUR DURING OPERATIONS. DISCHARGE LINE SHALL BE INSPECTED FOR LEAKS. INTAKE SCREENS AND OUTLET ENERGY DISSIPATORS SHALL BE INSPECTED FOR CLOGS AND TO VERIFY COMPLETE ASSEMBLY.

CLEANOUT LEVEL: NONE (SEE TEMPORARY COFFER DAM).

ACTION TIME FRAME: IMMEDIATELY CEASE PUMPING OPERATIONS IF DEFICIENCIES ARE NOTED. REPAIRS SHALL BE COMPLETED PRIOR TO RESUMING BYPASS PUMPING OPERATIONS

BMP: TEMPORARY COFFER DAM

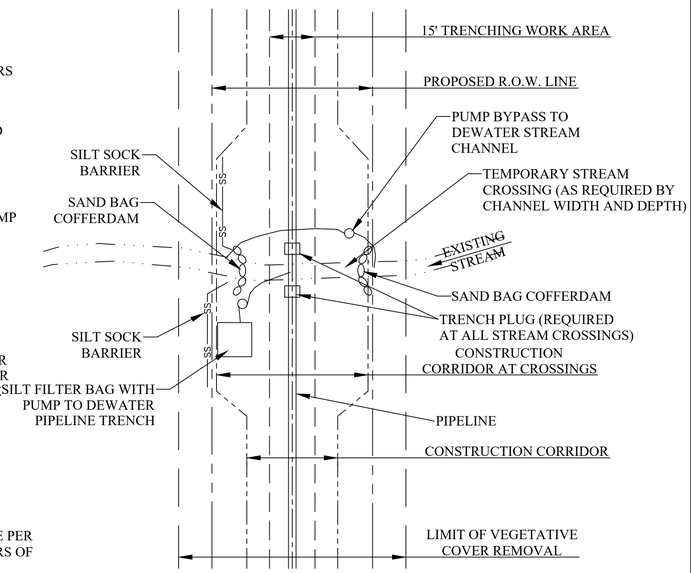
MAINTENANCE: TEMPORARY COFFER DAM SHALL BE INSPECTED ONCE PER HOUR DURING BYPASS PUMPING OPERATIONS, ADD ADDITIONAL LAYERS OF SANDBAGS AS REQUIRED TO MAINTAIN POOLING LEVELS BELOW THE BOTTOM OF THE TOP LAYER OF SANDBAGS. ADJUST AND REPLACE SANDBAGS AS INSPECTION REQUIRES. SEAL SURFACE OF COFFER DAM WITH PLASTIC SHEETING IF LEAKS ARE NOTED.

CLEANOUT LEVEL: 1/2 THE HEIGHT OF THE COFFER DAM.

ACTION TIME FRAME: CEASE BYPASS PUMPING OPERATION WITHIN ONE (1) HOUR, AND REMOVE ACCUMULATED SEDIMENTS BY THE END OF THE WORK DAY. PUMP BYPASS SHALL NOT BE RE-INSTALLED UNTIL ACCUMULATED SEDIMENTS ARE REMOVED.

SEEDING NOTE:

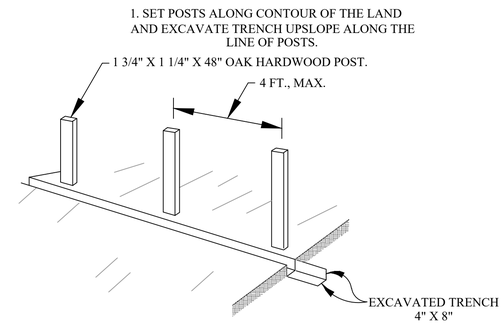
ALL DISTURBED AREAS SHALL BE SEEDED WITH ERNST OBL-FACW PERENNIAL FOOD AND COVER MIX ERNMX-120 AT A RATE OF 20 LBS. PER ACRE OR 1/2 LB. PER 1,000 SQUARE FEET.

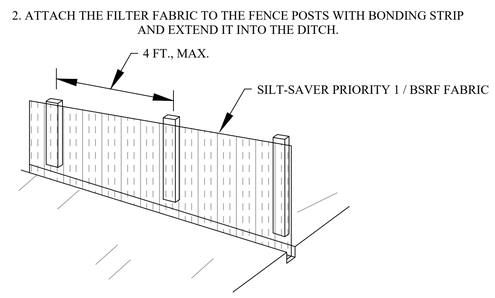


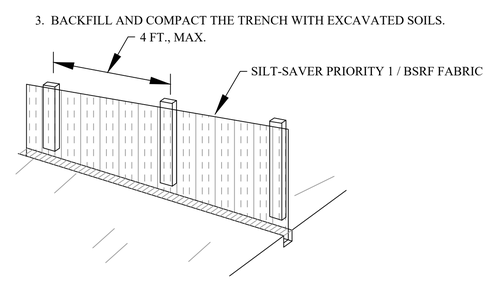
TEMPORARY STREAM CROSSING
(PUMP AROUND)
NOT TO SCALE

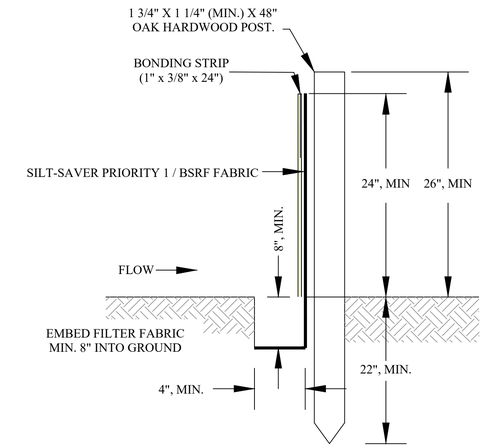
NOTES:

1. FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO ALIGNMENT LENGTH TO AVOID JOINTS. WHERE JOINTS ARE UNAVOIDABLE, THE FABRIC SHALL BE SLICED TOGETHER AT A SUPPORT POST BY TWISTING THE POST OF EACH RUN AROUND EACH OTHER.
2. SILT-SAVER PRIORITY 1/ BSRF FILTER FABRIC SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE SUPPORT POSTS USING ONE INCH, MINIMUM, LONG HEAVY-DUTY WIRE STAPLES OR TIE WIRES WITH EIGHT INCHES, MINIMUM, OF FABRIC EXTENDED INTO THE TRENCH. DO NOT STAPLE FABRIC TO TREES.
3. COMPACTED SOIL BACKFILL SHALL BE PLACED IN THE 4" BY 8" TRENCH ATOP THE EXTENDED FABRIC.
4. POSTS SHALL BE CONSTRUCTED OF 1 3/4" X 1 1/4" (MIN.) OAK HARDWOOD OR 2" X 4" PINE BY 48" LONG.
5. THE MAXIMUM RUN OF SLOPE ABOVE A ROW OF SILT FENCE IS 110 FEET.

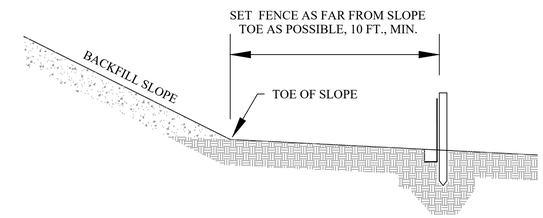




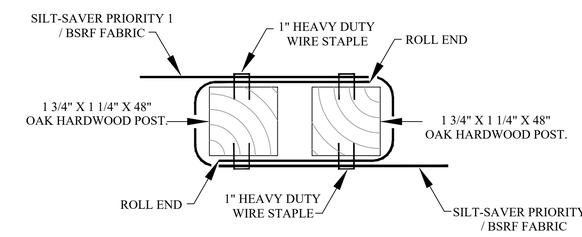




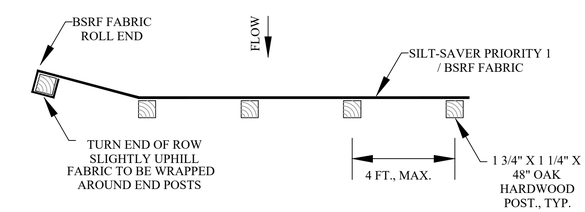
SIDE VIEW



TOE OF SLOPE SILT FENCE LOCATION



END LAP TOP VIEW



END DETAIL

SILT-SAVER PRIORITY 1 / BSRF FABRIC DETAIL
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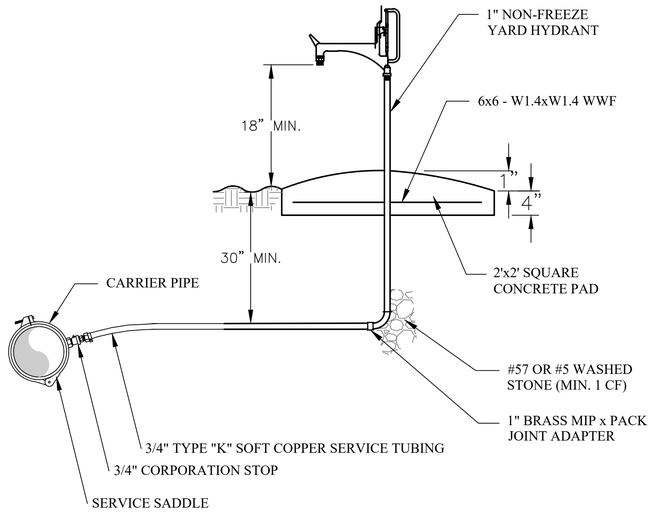
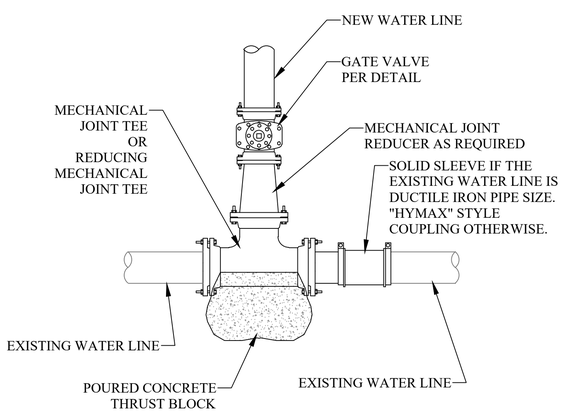
SHEET No. D3

FULL SIZE PLAN SCALE: LAYOUT TAB: D3 DETAILS PLOT DATE/TIME: 5/17/2022 3:31 PM
CAD FILE: R:\030\030-10264.00-Rustic Ravines, Inc. (WV) - AML Pilot Project-Rustic Ravines Inc.-\Drawing\10264-DETAILS.dwg

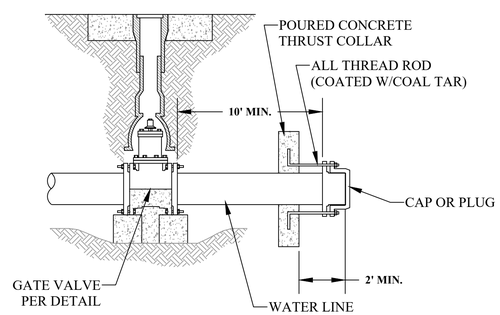
NOTES:
1. YARD HYDRANTS SHALL BE SELF-DRAINING, NON-FREEZING, COMPRESSION TYPE. INLET CONNECTION SHALL BE 3/4" IP. OUTLET SHALL BE 3/4" IP.
2. SERVICE SADDLE AND CORPORATION STOP CANNOT BE INSTALLED UNTIL AFTER THE MAIN LINE WATER LINE IS SUCCESSFULLY PRESSURE TESTED AND STERILIZED.



YARD HYDRANT DETAIL
NOT TO SCALE

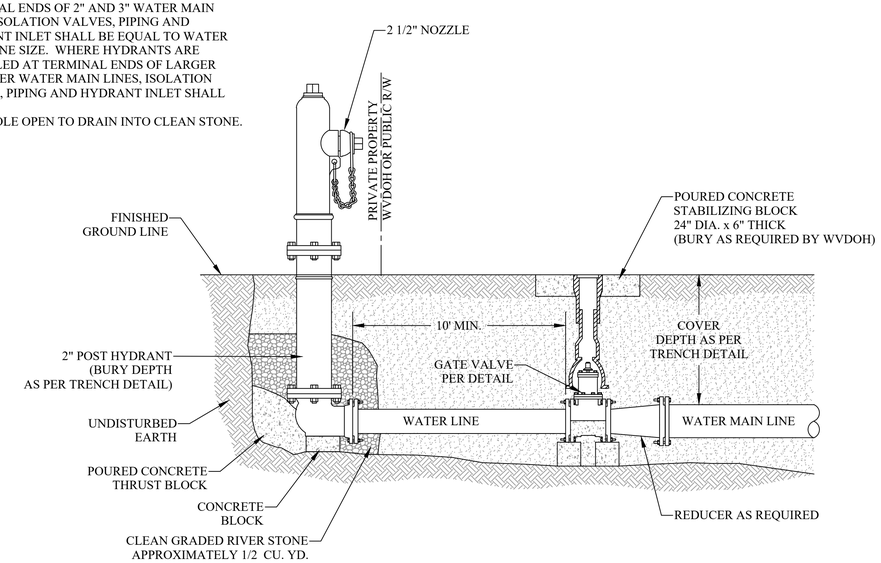


TIE IN DETAIL
NOT TO SCALE



TYPICAL STUB-OUT DETAIL
NOT TO SCALE

NOTE:
1. WHERE HYDRANTS ARE INSTALLED AT TERMINAL ENDS OF 2" AND 3" WATER MAIN LINES, ISOLATION VALVES, PIPING AND HYDRANT INLET SHALL BE EQUAL TO WATER MAIN LINE SIZE. WHERE HYDRANTS ARE INSTALLED AT TERMINAL ENDS OF LARGER DIAMETER WATER MAIN LINES, ISOLATION VALVES, PIPING AND HYDRANT INLET SHALL BE 3".
2. KEEP HOLE OPEN TO DRAIN INTO CLEAN STONE.



2" POST FLUSHING HYDRANT ASSEMBLY DETAIL
NOT TO SCALE

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THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.
CONTRACT No.
PROJECT No. 101-030-10264

RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
DETAILS

SHEET No. D4

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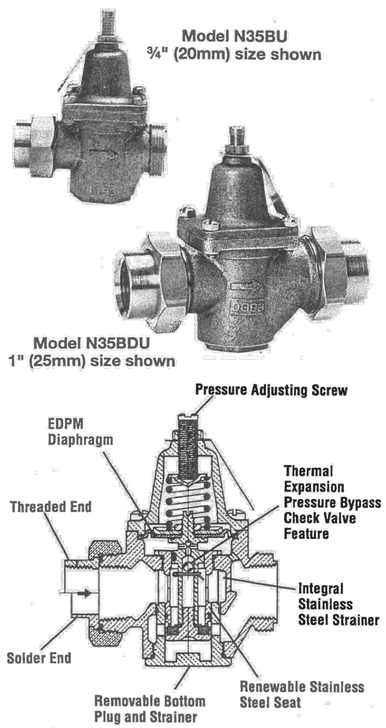
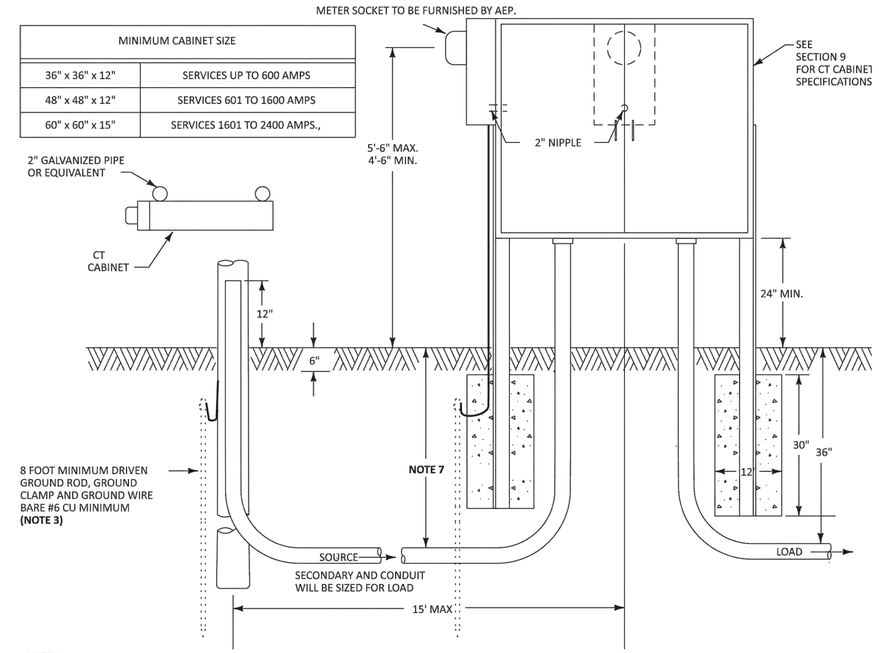


WATER PRESSURE REGULATOR
50 PSI STANDARD SETTING
NOT TO SCALE



MINIMUM CABINET SIZE	
36" x 36" x 12"	SERVICES UP TO 600 AMPS
48" x 48" x 12"	SERVICES 601 TO 1600 AMPS
60" x 60" x 15"	SERVICES 1601 TO 2400 AMPS.,

NOTES:

1. CT CABINET, FURNISHED AND INSTALLED BY CUSTOMER, SHALL BE OF SUBSTANTIAL STRENGTH WITH CORROSION PROTECTION, SUCH AS PAINTED GALVANIZED STEEL NEMA 3R. ALUMINUM OR FIBER REINFORCED POLYESTER ENCLOSURES MUST BE USED IN CORROSIVE AREAS. IT SHALL HAVE PROVISIONS FOR INSTALLING AN AEP PADLOCK AND SEAL. THE INSIDE BACK OF THE CABINET SHALL BE ENTIRELY COVERED BY 3/4" TREATED PLYWOOD FOR MOUNTING THE CURRENT TRANSFORMERS OR (AEP TEXAS) SUITABLE MOUNTING BRACKETS MAY BE PROVIDED. A GROUNDING LUG SHALL BE PROVIDED TO GROUND THE CABINET.
2. THE WHITE DOT POLARITY MARK ON THE CT SHALL BE TOWARD THE ENERGY SOURCE OR LINE SIDE.
3. CUSTOMER SHOULD MOUNT THE METER SOCKET ON THE CT CABINET AND INSTALL 2" NIPPLE BETWEEN THE TWO.
4. THE CT CABINET AND METER SOCKET SHALL BE GROUNDED. THE METER SOCKET AND CT CABINET SHALL BE BONDED THROUGH A SEPARATE EQUIPMENT -GROUNDING CONDUCTOR CONNECTED TO THE GROUNDED SERVICE CONDUCTOR (USUALLY THE NEUTRAL). IF A GROUNDED SERVICE CONDUCTOR DOES NOT EXIST THEN GROUNDING AND BONDING OF METERING EQUIPMENT MUST BE ESTABLISHED THROUGH A GROUNDING ELECTRODE SYSTEM ESTABLISHED AT THE POINT OF SERVICE. IN SOME JURISDICTIONS THE GROUNDING OF THE METER SOCKET AND INSTRUMENT TRANSFORMER ENCLOSURE WILL BE SUPPLEMENTED WITH THE USE OF A DRIVEN GROUND ROD IN ADDITION TO BONDING TO THE GROUNDED SERVICE CONDUCTOR.
5. COMPANY WILL INSTALL THE METER CONTROL CABLE BETWEEN THE CT AND THE METER SOCKET.
6. THE CONDUCTOR SPLICE SHALL BE MADE WITH BOLTED CONNECTIONS FURNISHED AND INSTALLED BY CUSTOMER WHERE REQUIRED. IN AEP TEXAS NORTH AND CENTRAL WHERE THE CUSTOMER OWNS AND INSTALLS BOTH THE LINE AND LOAD CONDUCTORS, THE CONDUCTOR SHALL PASS THROUGH THE CT'S WITHOUT SPLICE.
7. BURIAL DEPTH IS THE DISTANCE BETWEEN FINAL GRADE AND THE TOP OF THE BURIED CABLE OR CONDUIT. THE POWER COMPANY (AEP) SHALL SPECIFY THE REQUIRED BURIAL DEPTH PER OPERATING COMPANY AS PRESCRIBED IN THE PROCEEDING LIST:
   APCO = REQUIRES A BURIAL DEPTH OF 30"
   KYPCO = REQUIRES A BURIAL DEPTH OF 30"
   I&M = REQUIRES A BURIAL DEPTH OF 30"
   OHIO = REQUIRES A BURIAL DEPTH OF 30"
   TEXAS = REQUIRES A BURIAL DEPTH OF 36"
   PSO = REQUIRES A BURIAL DEPTH OF 36"
   SWEPCO = REQUIRES A BURIAL DEPTH OF 36"

   AND/OR CONFORM TO ANY OR ALL AUTHORITY HAVING JURISDICTION.THE POWER COMPANY (AEP) HAS PRESCRIBED THE BURIAL DEPTH SHALL NOT BE LESS THAN STATED DEPTH ON THE PRECEDING LIST UNLESS IMPOSSIBLE TO BE ACHIEVED OR IS SUPERSEDED BY LOCAL AUTHORITY HAVING JURISDICTION. IF THE DEPTH IS IMPOSSIBLE TO ACHIEVED AEP'S VERIFICATION WILL BE NEEDED. HOWEVER, NOT TO BE LESS THAN WHAT IS STATED IN THE NATIONAL ELECTRICAL CODE'S ARTICLES AND TABLES:ARTICLE 300: 300.3(B) (1), 300.3 (C) (1) (2), TABLE 300.5, AND TABLE 300.50
8. THE COMPANY WILL BE RESPONSIBLE FOR: DESIGNATING THE LOCATION FOR THE TRENCH AND THE METER. PROVIDING AND INSTALLING THE UNDERGROUND SERVICE LATERAL IN SERVICE TERRITORIES WHERE REQUIRED. PROVIDING THE METER BASE TO THE CUSTOMER WHERE REQUIRED.
9. THE CUSTOMER WILL BE RESPONSIBLE FOR: PROVIDING AND INSTALLING THE RISER ASSEMBLY. RISER ASSEMBLY TO CONSIST OF AN INSULATING BUSHING, LOCKNUT, THREADED ADAPTER, GALVANIZED OR SCHEDULE 80 PVC CONDUIT WITH BELL END AND CLAMP. INSTALLATION OF EQUIPMENT TO BE IN ACCORDANCE WITH POWER COMPANY STANDARDS, AND/OR LOCAL ORDINANCES OR CODES.

AEP- CURRENT TRANSFORMER CABINET
FREE STANDING OVERHEAD TO UNDERGROUND SERVICE
NOT TO SCALE

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600 WHITE OAKS BLVD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108
FAX (304) 624-7831

PHASE No.
CONTRACT No.
PROJECT No. 101-030-10264

RUSTIC RAVINES, INC.
ISSUED FOR PERMITTING PLANS
CAMP GROUND VIA AML PILOT PROJECT
WAYNE COUNTY, WV
DETAILS

SHEET No. D5

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LAYOUT TAB: D5 DETAILS
PLOT DATE/TIME: 5/17/2022 3:32 PM

THRUST BLOCKING

1. THE THRUST BLOCKING SHALL BE FORMED AGAINST A SOLID TRENCH WALL. THE FITTING AREAS SHALL BE EXCAVATED BY HAND BECAUSE MECHANICAL EQUIPMENT WILL DAMAGE THE BEARING SURFACE OF THE TRENCH WALL.

2. THE SIZE AND TYPE OF THRUST BLOCK DEPENDS ON THE PIPE SIZE, LINE PRESSURE, TYPE OF FITTING, DEGREE OF BEND AND TYPE OF SOIL. IN MOST CASES, THE SIZE AND TYPE OF THRUST BLOCK WILL BE DETERMINED BY THE ENGINEER. THRUST BLOCK SIZE MAY BE CALCULATED BY THE PROCEDURES SHOWN AT RIGHT.

THRUSTS IN SOFT UNSTABLE SOILS

1. IN SOFT, UNSTABLE SOILS SUCH AS MUCK OR PEAT, THRUSTS ARE RESISTED BY RUNNING CORROSION-RESISTANT TIE-RODS TO SOLID FOUNDATIONS OR BY REMOVING THE SOFT MATERIAL AND REPLACING IT WITH BALLAST OF SUFFICIENT SIZE AND WEIGHT TO RESIST THRUSTS DEVELOPED.

UPWARD THRUSTS AT FITTINGS

1. WHERE A FITTING IS USED TO MAKE A VERTICAL BEND, ANCHOR THE FITTING TO A THRUST BLOCK BRACED AGAINST THE UNDISTURBED SOIL. THE THRUST BLOCK SHALL HAVE ENOUGH RESISTANCE TO WITHSTAND UPWARD AND OUTWARD THRUSTS AT THE FITTING.

SIDE THRUST ON CURVES

1. AN OUTWARD PRESSURE EXISTS ON ALL DEFLECTIONS FROM A STRAIGHT LINE. GOOD SOIL, PROPERLY TAMPED, IS SUFFICIENT TO HOLD SIDE THRUST UNLESS SOIL CONDITIONS ARE UNSTABLE. IN THAT CASE, TO ANCHOR AGAINST THIS SIDE THRUST, THE BLOCKING SHOULD BE PLACED AGAINST THE PIPE ON EACH SIDE OF THE COUPLING. DO NOT THRUST BLOCK THE COUPLING ITSELF.

SIDE THRUST

PIPE SIZE INCHES	SIDE THRUST POUNDS PER DEGREE
1 1/2"	5.1
2"	7.9
2 1/2"	11.6
3"	17.1
3 1/2"	22.4
4"	28.3
5"	43.1
6"	60.8
8"	103.0
10"	160.0
12"	225.0

BASED ON SIDE THRUST PER 100 POUNDS PER SQUARE INCH (PSI) PRESSURE PER DEGREE OF DEFLECTION

MULTIPLY SIDE THRUST POUNDS BY DEGREE OF DEFLECTION TIMES POUNDS OF PRESSURE DIVIDED BY 100 TO OBTAIN TOTAL SIDE THRUST IN POUNDS.

STEP No. 1: MULTIPLY THE PRESSURE LEVEL DESIRED FOR TESTING BY THE APPROPRIATE VALUE SHOWN IN THE FOLLOWING TABLE:

PIPE SIZE	DEAD END OR TEE	90° ELBOW	45° ELBOW	22 1/2° ELBOW
1.5"	2.94	4.16	2.25	1.15
2"	4.56	6.45	3.50	1.78
2.5"	6.65	9.40	5.10	2.60
3"	9.80	13.9	7.51	3.82
3.5"	12.8	18.1	9.81	4.99
4"	16.2	23.0	12.4	6.31
5"	24.7	35.0	18.9	9.63
6"	34.8	49.2	26.7	13.6
8"	59.0	83.5	45.2	23.0
10"	91.5	130.0	70.0	35.8
12"	129.0	180.0	98.5	50.3

BASED ON POUNDS THRUST PER PSI WORKING PRESSURE

STEP No. 2: DETERMINE THE BEARING STRENGTH OF THE SOIL FROM THE TABLE BELOW:

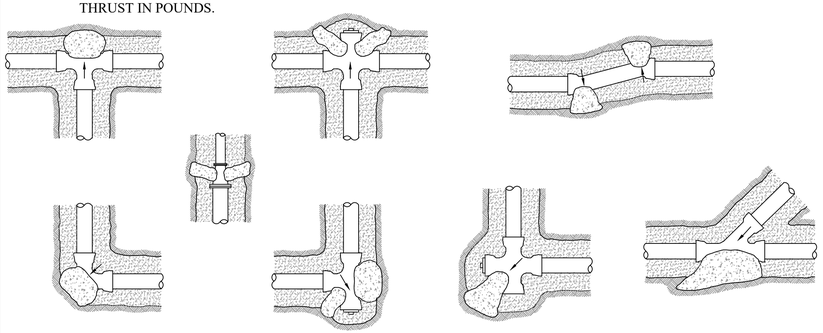
SOILS AND SAFE BEARING LOADS	LBS SQ. FT.
SOUND SOILS	10,000
CEMENTED GRAVEL AND SAND DIFFICULT TO PICK	4,000
COURSE AND FINE COMPACT SAND	3,000
MEDIUM CLAY THAT CAN BE SPADED	2,000
SOFT CLAY	1,000
MUCK	0

STEP No. 3: DIVIDE THE TOTAL THRUST OBTAINED IN STEP 1 BY THE BEARING STRENGTH OF SOIL THIS GIVES THE SQUARE FEET OF THE AREA NEEDED.

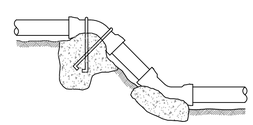
THRUST BLOCK GENERAL NOTES:

1. ALL CONCRETE THRUST BLOCKING SHALL MEET 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

2. ALL FITTINGS SHALL BE WRAPPED WITH 4 MIL PLASTIC PRIOR TO PLACING CONCRETE THRUST BLOCK.

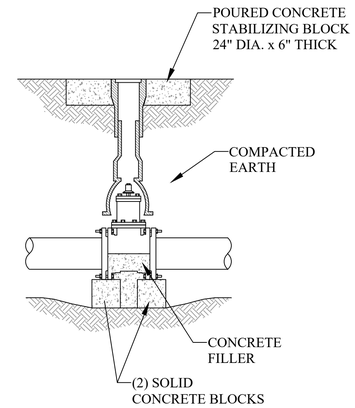


HORIZONTAL FITTINGS

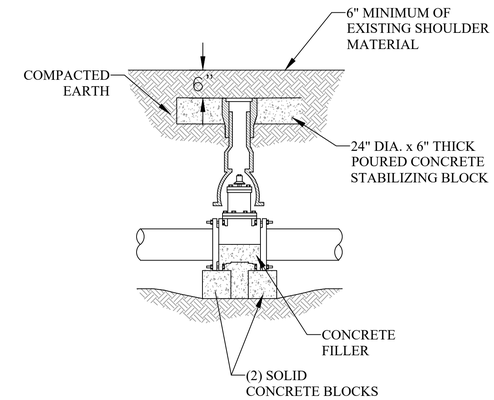


VERTICAL FITTINGS

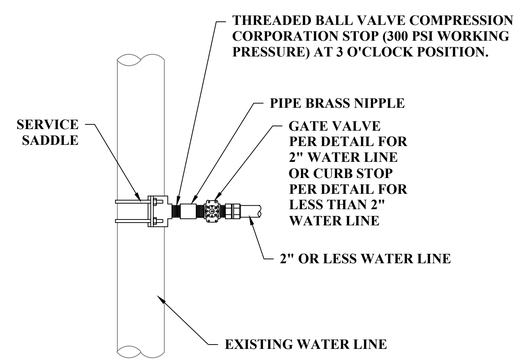
CONCRETE THRUST BLOCK DETAILS
NOT TO SCALE



GATE VALVE SUPPORT OUT OF WVDOH R.O.W
NOT TO SCALE



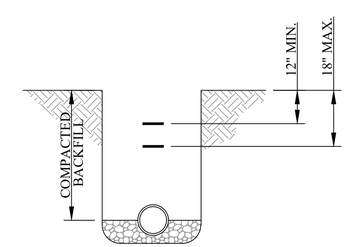
GATE VALVE SUPPORT IN WVDOH R.O.W.
NOT TO SCALE



TYPICAL 2" OR LESS CONNECTION TO EXISTING WATER MAIN LINE
NOT TO SCALE

RED	ELECTRIC
YELLOW	GAS
ORANGE	TELEPHONE
BLUE	WATER
GREEN	SEWER

COLOR CODES FOR UTILITY LOCATING MAGNETIC WARNING TAPE
NOT TO SCALE



MAGNETIC WARNING TAPE DETAIL
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600 WHITE OAKS BLVD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108
FAX (304) 624-7831

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SHEET No. D6

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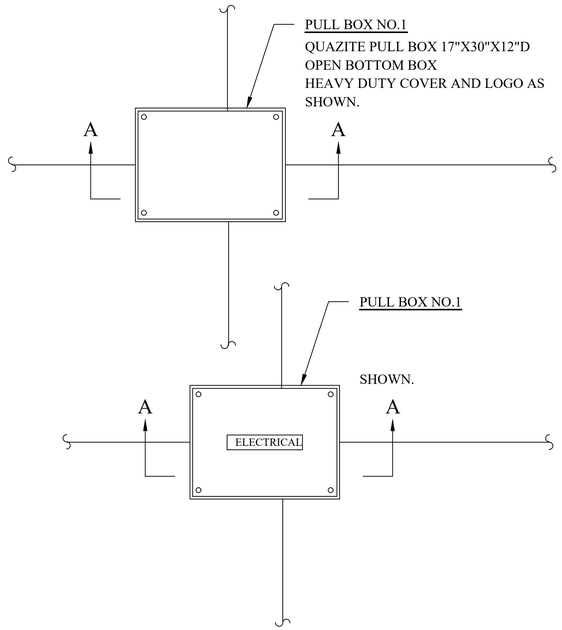
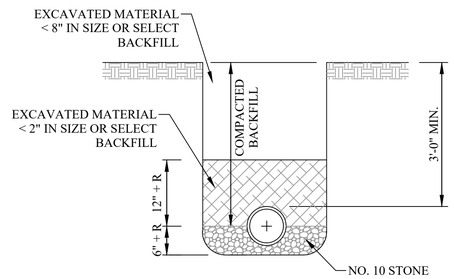
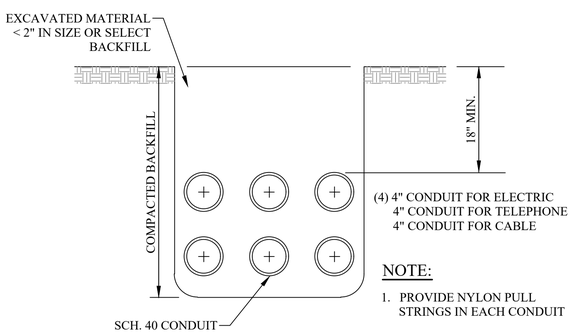


QUAZITE PULL BOX DETAIL

NOT TO SCALE



BEDDING FOR WATER PIPE

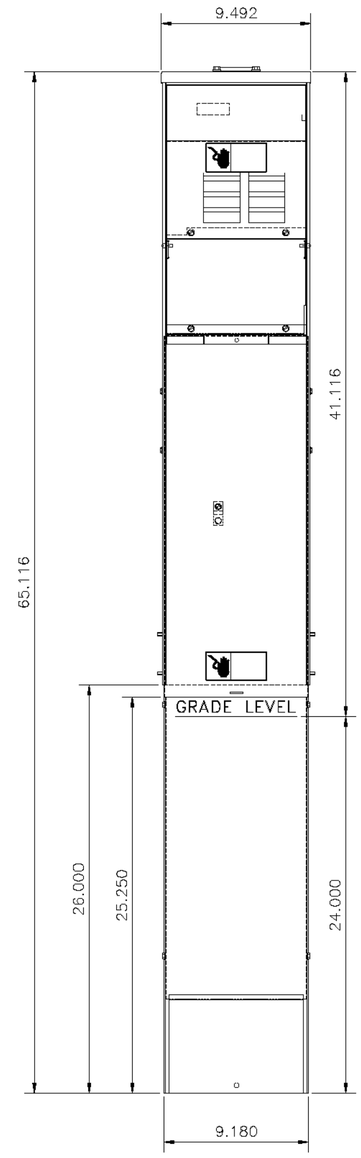


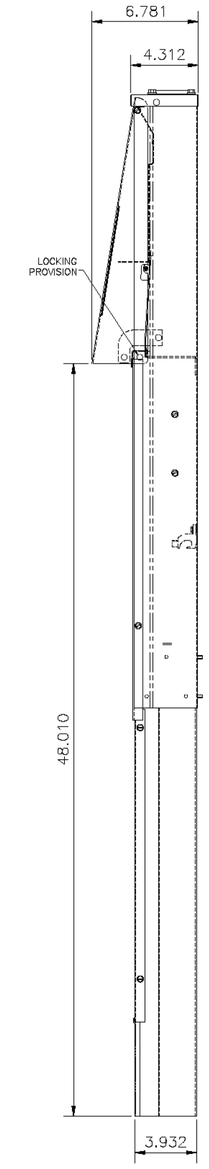
NOTE:

1. PROVIDE NYLON PULL STRINGS IN EACH CONDUIT

CONDUIT TRENCH DETAIL

NOT TO SCALE





NOTES:

1. EACH PEDESTAL INCLUDES 50/30/20 AMP RECEPTACLES.
2. CONTRACTOR SHALL INSTALL PEDESTAL MANUFACTURED BY B&B ELECTRICAL, SKU: CHU1N7N4NPTZ, OR AN APPROVED EQUAL

ELECTRICAL PEDESTAL DETAIL

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FAX (304) 624-7831

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WAYNE COUNTY, WV
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SHEET No. D7

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