

Prevent • Promote • Protect

1675 W. Garden of the Gods Rd., Suite 2044 Colorado Springs, CO 80907 (719) 578-3199 phane (719) 575-8664 fax www.elpasocountyhealth.org

ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION FORM	ON-SITE ID: <u>ON0049082</u> P APN # 5233002008
	DATE: <u>3/31/2017</u>
APPROVED YES NO Environmental Health Specialist: Neil I	
	BR Investmens LLC
Residence: #Bedrooms: Commercial: System Installer: Kunau Drilling	<u>g LLC</u>
SEPTIC TANK: Construction Material Concrete Capacity Gallon	1500
SOIL TREATMENT AREA:	
Trench: Depth (Range): Width: Total Length: Sq. Ft.:	
Bed: Depth (Range): Width: Total Length: Sq. Ft.	
Depth of Rock: Under PVC: Type of cover on Rock: _	
SEEPAGE PITS: # of Pits: Working Depth #1: #2: Size (L x W) #1	#2 Total Sq. Ft
CHAMBER SYSTEMS:	
Type of Chamber: Quick 4+ STD #Chambers: 32 Sq. Ft./Chamber: 12 Bed:	
Sq. Ft. Required (10-1): <u>540</u> Sq. Ft. Required (10-2): <u>540</u> Sq. Ft. Required (10-3	Sq. Ft. Required for Diverter Valve: (10-
2)/(2) Sq. Ft. Installed: 384 Gravity w/oil seperator	
304 Gravity Wyon Seperator	
Engineer Design: Y 🛛 N 🗌 Engineering Firm: Matrix Design Group Appro	oval Letter Provided: Y 🛛 N 🗌
Well installed at time of OWTS inspection: Y 🔲 💎 N 🔲 💮 Public Water: Y 🔲 🗀 N	· · · · ·
*Approval will be revoked if in the future the well is found to be within 50 feet of the septic	tank and/or 100 feet of the soil treatment area.
Notes:	
All Sever lines are 4"SCH 40	cell - well - Ucell - 100 f
	8 8 8 8
4' o 34	1 0 36" 3 48" 48"
Garage oil seperator 17' D-bex	
5.5	18' 28'
3' 2' 83'	1500gal tank
	TUNK

Notify Environmental Health of any change of ownership, type of business activity, business name, or billing address by calling (719) 578-3199. Failure to notify Environmental Health may result in late penalties, Permit/License denial or revocation, and business closure. PERMITS/LICENSES TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s)/License(s) prior to beginning operation.

Attn: BR INVESTMENTS LLC 8812 CLIFF ALLEN PT COLORADO SPRINGS, CO 80908



# EL PASO COUNTY PUBLIC HEALTH ENVIRONMENTAL HEALTH DIVISION

1675 W. GARDEN OF THE GODS ROAD, SUITE 2044 COLORADO SPRINGS, CO 80907 PHONE: (719) 578-3199 FAX: (719) 578-3188 www.elpasocountyhealth.org

## **NEW SYSTEM PERMIT - OWTS**

Valid From 12/16/2016 To 12/16/2017

PERMITEE:

BR INVESTMENTS LLC 8812 CLIFF ALLEN PT COLORADO SPRINGS, CO 80908

OWNER NAME:

**BR INVESTMENTS LLC** 

Onsite ID: ON0049082

Tax Schedule #: 5233002008
Permit Issue Date: 12/16/2016

Dwelling Type: RESIDENTIAL

# of Bedrooms (if Res): 0

Proposed Use (if Comm): Designed Gallons/Day:

Water Source: PRIVATE WELL

### System Installation Requirements:

- Install engineer design system according to Matrix Design Group, Utility Plan No. UT01 dated on July 2016.
- A 750 gallon 2-compartment septic tank is shown on the plans; however, a 1000 gallon 2-compartment septic tank will be required.
- Due to encountering a restrictive layer at a depth of six feet, infiltrative surface shall have a maximum depth of 24 inches. (I)
- Any modifications made on the system shall be reviewed and approved by both Matrix Design Group and Public Health prior to installing.
- An as-built drawing and a certified approval letter will need to be submitted to Public Health for final approval.
- · Questions? Call Neil: 719-237-9194

The OWTS must be installed per the stamped and approved Design Document dated 12/16/2016.

This permit is issued in accordance with 25-10-106 Colorado Revised Statutes. The PERMIT EXPIRES upon completion/installation of the Onsite Wastewater Treatment System, or at the end of twelve (12) months from date of issue, whichever occurs first. If both a Building Permit and an Onsite Wastewater Treatment System Permit are issued for the same property and construction has not commenced prior to the expiration date of the Building Permit, the Onsite Wastewater Permit shall expire at the same time as the Building Permit. This permit is revocable if all stated requirements are not met. The Onsite Wastewater Treatment System must be installed by an El Paso County Licensed System Contractor, or the property owner.

The Health Officer shall assume no responsibility in case of failure or inadequacy of an Onsite Wastewater Treatment System, beyond consulting in good faith with the property owner or representative. Access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with the requirements of this law (permit).

Inspection request line: Call (719) 575-8699 before 8:30 a.m. of the day that the inspection is requested Weekends & Holidays excluded.

Neil Mayer



### Environmental Health Division

1675 W. Garden of the Gods Rd., Suite 2044 Colorado Springs, CO 80907 (719) 578-3199 phone (719) 578-3188 fax www.elpasocountyhealth.org

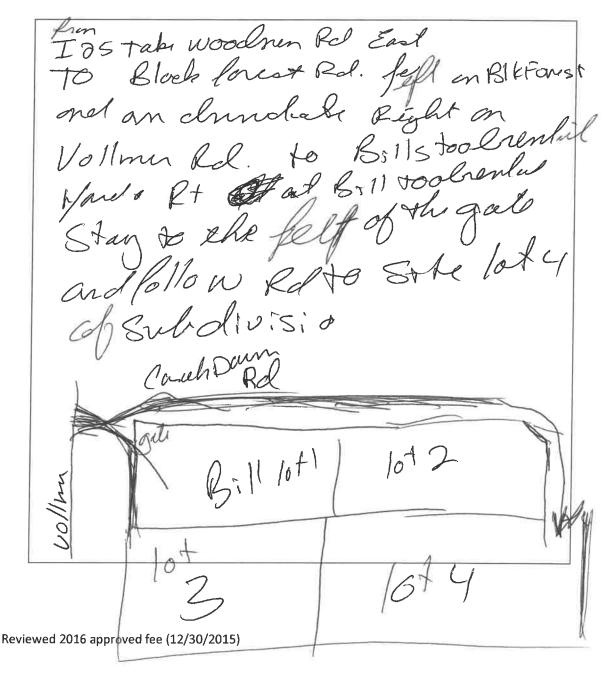
Prevent • Promote • Protect

006157 AB0010434

APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT
NEW PERMIT MAJOR REPAIR PERMIT MINOR REPAIR PERMIT
Owner BR chrostments, LSC Daytime Phone 719-4195-8652
System Installer Kungu Drilling Daytime Phone 719-683-3720
Property Address 8812 CliffAllin Pt City and Zip Colorado Spring Co 8090
Legal Description 10+ 4 Barbaric Sub division
Owners Mailing Address P. O Box 88126, Colorede Spring Co 80908
Email Address NA Fax #
Tax Schedule # <u>5233602008</u> Lot Size <u>5.29 Ac</u>
Site Located Inside City Limits Yes No Primary Contact Owner Contractor
Proposed Use: Single Family Multi-Family Commercial
Water Supply: Well Cistern Municipal Number of Bedrooms
Pick up: Email:
CURRENT FEES AS APPROVED BY THE EI PASO COUNTY BOARD OF HEALTH
New Permit: \$685.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge) = \$855.00
Major Repair Permit: \$525.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$548.00
Minor Repair Permit: \$240.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$263.00
All Payments are due at the time of application submittal; by cash, check or major credit card (Visa / MC)
This permit will expire one year from the date of issuance.
I certify that the information provided on this application is in compliance with Section 8.3, Chapter 8 of the Onsite Wastewater System (OWS) Regulations of the El Paso County Board of Health. I also authorize the assigned epperentative of El Paso County Public Health to enter onto this property in order to obtain information
necessary for the issuance of a permit.
Applicants Signature: Date: 1/18/16
Site Insp. Date: 12/13/14 Perc. Rate: LTAG = 0.50 Permit #0000 19082
E.H.S. Review Notes:
E.H.S. Review Notes.
Date to: E.P.C. Development Services /2/13/1/6 Flood Plain and Enumerations 12/14/1/6
Date to. E.F.C. Development Services 707/7/4 Flood Flam and Enumerations 127/9/14
Permit Requirements:
Terrifit Requirements.
Min. Septic Tank Capacity Min. Absorption Area
EH Specialist 77 1 1/1/2 Date 12/16/16 Manuscred David

Je Je

- A report is required per Section 8.5 A-E, "Site and Soil Evaluation", or Section 8.5 A-F if the OWTS requires design by a Colorado Registered Professional Engineer. If your permit application submittal is incomplete, the application will not be accepted.
- 2) Property address or lot number must be posted and clearly visible from the road. The percolation test holes and/ or soil profile test pit must be clearly marked or an additional charge for a return trip to the site may be assessed.
- 3) The proposed soil treatment area must be protected from compaction and disturbance by staking, fencing, posting or other effective method.
- 4) In the Box below, please provide complete and accurate directions to the property from a main highway.





September 8, 2017

2435 Research Parkway, Suite 300 Colorado Springs, Colorado 80920 Phone: 719.575.0100 Fax: 719.575.0208 matrixdesigngroup.com

> E ONOO 49082 5233002008 3/31/2019

Mr. Justin Ballard Wykota Construction, Inc. 430 Beacon Lite Road Suite 135 Monument, CO 80132

Subject: 8812 Cliff Allen Point Septic System Certification

Dear Mr. Ballard,

Based on information provided by Wykota Construction, Inc. and the septic system contractor, Kunau Drilling, LLC, we understand that the septic system designed by Matrix Design Group, Inc. (Matrix) at the aforementioned location was constructed in substantial conformance with our design and was inspected and approved by the El Paso County Health Department. Therefore, based on this information, Matrix is of the opinion that the septic system was constructed in general conformance with the approved Construction Plans and Specifications.

If you have any questions or need additional information, please contact me at 719-575-0100.

Sincerely,

Matrix Design Group, Inc.

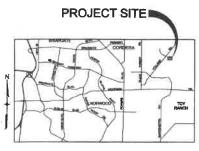
Eric W. Smith, PE Vice President

## **BARBARICK SUBDIVISION LOT 4**

## EL PASO COUNTY, COLORADO SITE PLAN CONSTRUCTION DOCUMENTS

THE WEST ONE HALF OF THE WEST ONE HALF OF SECTION 33, TOWNSHIP 12 SOUTH, RANGE 65 WEST

JULY, 2016



VICINITY MAP

#### CONTACT LIST:

OWNER-SEE STATEMENTS AT RIGHT

DEVELOPER: JUSTIN BALLARD
WYKOTA CONSTRUCTION
430 BEACON LIGHT ROAD, SUITE 130
COLORADO SPRINGS, DO. 80132

CONSULTANT:

GREGORY SHANER, PE. MATRIX DESIGN GROUP 2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, CO. 80820 (719) 575-0100

UTILITIES:

MOUNTAIN VIEW ELECTRIC 11140 E. WOCOMEN RD. FALCON, CO 80811-8127 (719) 495-2283

UTILITIES CONT.

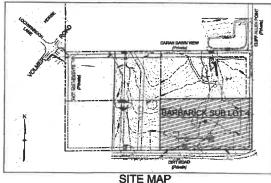
MAGELLAN PIPELINE 1775 SHERMAN STREET SUITE 1950 DENVER, CO 80203 UNITED STATES OF AMERICA (720) 484-2400

CIGARINDER MORGAN 2 NORTH NEVADA AVERUE COLORADO SPRINGS, CO 80903 (719) 520-4848

CSU 111 S. CASCADE AVE. COLORADO SPRINGS, CO 10903 (600) 238-6484

EL PASO COUNTY:

DEVELOPMENT SERVICES DEPARTMENT INSPECTIONS GROUP 2880 INTERNATIONAL CIR., SUITE 110 COLORADO SPRINGS, CO 60010 (719) 332-3589



SCALE: 1"=20

INDEX OF SHEETS				
7004	TITLE OLIVERY			

ABBREVIATIONS/LEGEND GENERAL NOTES

#### DEVELOPER'S STATEMENT:

LITHE OWNER/DEVELOPER HAVE READ AND WILL COMPLY CONTROL PLANL

PRESIDENT WYKOTA CONSTRUCTION 430 BEACON LIGHT ROAD, SUITE 130 COLORADO SPRINGS, CO

#### DESIGN ENGINEER'S STATEMENT:

THIS GRADING AND EROSION CONTROL PLAN YAS PREPARED URDER MY DIRECTION AND SUPERVISION AND FER PROPARED URDER MY DIRECTION AND SUPERVISION AND INFORMATION AND BELLET. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITICAL SHEED BY THE COUNTY FOR GRADING AND EROSION CONTROL, PLANS, I ACCEPT RESPONSIBILITY OR ANY LABRILY CAUSED BY ANY NEGUIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PRAN.

DATE

GREGORY SHANER, PE #56307 FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.

#### LOT 4 OWNER'S STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION

DATE

OWNER BR INVESTMENTS P.O. BOX 66120 COLORADO SPRINGS, CO

#### EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/ OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

PRINTED NAME COUNTY ENGINEER / ECM ADMINISTRATOR

SITE SI	JMMARY DATA
SITE ACREAGE	5.3 Acres (230148 SF)
EXISTING LAND USE	Vacant
PROPOSED LAND USE	Office and Maintenance
EXISTING SITE ZONING	Light Industrial Lots
PROPOSED	
Building No. 1	7925 SF
REQUIRED PARKING	
. Building No. 1	10.57 Spaces
TOTAL	11 Spaces
PROVIDED PARKING	18 Speces
STRUCTURES SITE COVERAGE	7.825 SF - 3.5%
PAVEMENT SITE COVERAGE	35,489.SF - 15,4%
OPEN SPACE	186,732 SF - 81,1%
DRAMAGE BASIN	Sand Creek

- MARKE 2:115./TBLOOT T/I Letern/DrephCD/Child Sho / PC-CP: Identicallo PLOY DATTE: Whell All DI: 2016-10:05 (see		 (DATUM) (DESCRIPTION/LOCATION)		
			REVISIONS	
PR-TOPO PR-TOPO EX-FEATURES 2-Tribothi Free	NO.	DATE	DESCRIPTION	В
PROTECT ACTOR		-		
REFERENCE DRAWINGS				





SHEET NO.



## **BARBARICK SUBDIVISION LOT 4**

TITLE SHEET

TSO1

MONED BY: ME. Anne By: ME Boxosp By: GS	465	SOULE	- 1	DATE MINUSE.			ACC ROLL	
	HORD- MA	DATE MOLED:		200,000				
	VOICE:	MA	SHEET HO. 1	QF		BHERTS.		

AD .	ALGEBRAIC DIFFERENCE		
ASSY	ASSEMBLY	MAX	MAXIMUM
ASTM-	AMERICAN SOCIETY OF TESTING AND MATERIALS	MFGR	MANUFACTURER
APPROX	AFPROXIMATE or APPROXIMATELY.	104	MANHOLE
AVE	AVENUE	MID ·	MIDDLE or MIDPOINT
AVG	AVERAGE	MIN	MINIMUM
110	MILIONOE .	MJ	MECHANICAL JOINT
		MSL .	MEAN SEA LEVEL
BAC,	BVICK OF CURB	MOL	MEAN SEA LEVEL
	BASELINE	NC	NORMAL CROWN
El or B/L	Dracarec	NIC:	NOT IN CONTRACT
BLVID	BOULEVARD	NO.	NUMBER
втм .	BCITTOM	NOM	NOMINAL.
ODOT .	COLORADO DEPARTMENT OF TRANSPORTATION	NTS .	NOT TO SCALE
CI	CAST IRON	OC.	ON CENTER
CEN	CENTER	O/S	
Ç ar CL	CENTERLINE	G/S	OFFSET
		p	PROPOSED
CIFS	CUBIC FEET PER SECOND		
CLIR	CLEAR	PC	POINT OF CURVATURE
CIMP	CORRUGATED METAL PIPE	PCC	POINT OF COMPOUND CURVE
CONC	CONCRETE	PCR	POINT OF CURB RETURN
CONST	CONSTRUCTION	PE	PLAIN END
CONT	CONTINUOUS	PÆ	PUBLIC IMPROVEMENT EASEMENT
PONT .	00771170000	PGL .	PROFILE GRADE LINE
		Ig or P/L	PROPERTY LINE
DIA .	DIAMETER	PRC	POINT OF REVERSE CURVE
DN	DOWN	PT	POINT OF TANGENCY
DWG	DFIAWING	PVC	POINT OF VERTICAL CURVE or POLYVINYL CHLORID
		PVI	POINT OF VERTICAL INTERSECTION
EA .	FACH		
		PVMT	PAVEMENT
EGL	ENERGY GRADE LINE	PVT	FOINT OF VERTICAL TANGENT
LEV or EL	ELEVATION	R or RAD	RADIUS.
ELL.	ELBOW	RC	REVERSE CROWN
ESMT	EASEMENT .	RCP	REINFORCED CONCRETE PIPE
EW	EACH WAY	RED.	REDUCER
EX or EXIST	EXISTING	REF	REFERENCE
		RENF	REMPORCING
FES	FLARED END SECTION	REQ	REQUIRED
FIN	FINISHED	REV	REVISION
E or FL	FLOWLINE	ROW	FBGHT-OF-WAY
FLG	FLANGE	RT	RIGHT
FT ·	FOOT/FEET	SCH	SCHEDULE
	FIBERGLASS REINFORCED PIPE		
FRP	FINERULASS KEINFUNGED PIPE	SD	STORM SEWER
		60	SQUARE
GAL	GALLON	डा '	STREET
BALV	GALVANIZED	STA '	STATION
GAU	GAUGE (MATERIAL)	STD ·	STANDARD
GV.	GATE VALVE	STL	STEEL.
gw .	GROUNDWATER	98	SANITARY SEWER
O11			
unn .	HOT BITUMINOUS PAVEMENT	SAN-SEW	SANITARY SEWER
HBP :		SW or S/W	SIDEWALK
HGL.	HYDRAULIC GRADE LINE		
HP .	HIGH POINT	TAN	TANGENT
HORIZ	HORIZONTAL	TB	THRUST BLOCK
HCL	HORIZONTAL CONTROL LINE	TBC	TOP BACK OF CURB
HR	HOUR	TFC	TOP FACE OF CURB
···		THD	THREADED
wi	INVERT	THICK	THICKNESS
tak	INVEST .	TYP	TYPICAL
		TYP	ITPIGAL.
K	VERTICAL CURVE FACTOR		
		ug	UNDERGROUND
LBS	POUNDS	UTIL	UTILITY
LF	LINEAR FEET	OTIL	
LN	LANE	***	SETTEMENT OF THE PERSON OF THE
LP	LCW POINT	VC	VERTICAL CURVE
	LANDSCAPING	<b>VERT</b>	VERTICAL
LS			
LT	LEFT	W	WIDTH
			WITH

	PROPOSED CENTERLINE	O·	EXISTING MANHOLE
	EXISTING FENCE	•.	PROPOSED MANHOLE
	PROPOSED FENCE	o' ·	EXISTING POWER POLE
	EXISTING PAVED ROAD		EXISTING POWER POLE WIGUY WIRE
E-SD	EXISTING UNDERGROUND LITELITY	4√	THRUST BLOCK
P-W8	PROPOSED UNDERGROUND UTILITY	XX.	FIRE HYDRANT
<del></del>	DRAINAGE	H	EXISTING WATER VALVE
	RIGHT OF WAY	H	PROPOSED WATER VALVE
<del></del>	EASEMENT	Ŧ.	WATER FITTINGS
	EXISTING CURB & GUTTER	•	WATER METER
	PROPOSED CURB & GUTTER		EXISTING STORM INLET
			PROPOSED STORM DRAININLET
*	EXISTING CONTOUR	<u> </u>	SANITARY SEWER SERVICE
7000	PROPOSED CONTOUR	E	PLUG PIPE
	,	<del></del>	PROPOSED SIGN
	ENERGY GRADE LINE		EXISTING SIGN
	HYDRAULIC GRADE LINE	(80)	EXISTING DECIDUOUS TREE
4:1	SLOPE or DRAINAGE FLOW	-Kara	EXISTING CONFEROUS TREE
	LIMITS OF CONSTRUCTION	O	EXISTENCE LIGHT STANDARD
		<b>6</b>	PROPOSED I IGHT STANDARD

REFERENCE : DRAWINGS						THE VERTICAL REPORMATION ON THE DATUM OF SEES AND THE SEES SAFE
Eller Per						CAP III A ROAD BOX OF SIGNATIO AS MONUMENT TO AFT AND MAXIMUM PA REFERENCE THIS VEHICAL BATCAN. POREST ROAD, ABOUT 1.96 MALES SO
	NO.	DATE		DESCRIPTION	BY	CONSTRUCTION COMPANY DISVENS AND THE MOST SOUTHERLY GUARD
				REVISIONS		BASIS OF BEARING:
MARIE: BY IS THE COST TO LABORITH SPECIAL COST DESCRIPTION OF PARTY COSTS			(DATUM)		THE BASIS OF BEAUTINGS FOR THES AN TO THE OFFICIAL MAP THEREOF BEO COUNTY CLEUK AND RECORDER UNIO OR THE WEST CHID BY A FOLING SHE	
	PLOT DATE: Wed aid 21, 2018 10-87am	(DESCRIPTION/LOCATION)		AUJMINUM OF STAUPES 15 2154'		



SYMBOLS



---- CUT/FILL DEMARCATION LINE

----- FILING BOUNDARY

**BARBARICK SUBDIVISION LOT 4** 

ABBREVIATIONS/LEGEND/SYMBOLS

ED 871 ME NOVAL DATE MEMBER ALLY, MINA 1871 ME HORDE NAA NO 877 ME VERTY NAA DATE MO. 2 OF 8 DATE I

#### STANDARD PROJECT NOTIES

- ALI MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH EL PASO COUNTY SPECIFICATIONS; UNLESS NOTED OTHERWISE.
- THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE PROTECTION OF ALL UNLITES DURING THE WORK, ANY DAMAGE TO THE DESTRING UTILITIES WILL BE REPARKED AT THE CONTRACTORS DUPPING ANY REPRIVE DISRUPTION WILL BE SETTLED THE CONTRACTOR PRODUCT OF MY EXCANATION.
   WILL BE SETTLED THE CONTRACTOR PRODUCT OF ANY EXCANATION.
   WILL BE SETTLED TO THE CONTRACTOR PRODUCT OF ANY EXCANATION.
- IT IS SUGGESTED THAT THE CONTRACTOR INITIATE A REQUEST TO THE LOCAL UTRITIES FOR ANY CONSTRUCTION RELATED TEMPORARY ELECTRICAL POWER SOURCES AS SOON AS POLISIBLE. IN SOME INSTANCES UP TO 30 DAYS MAY BE DEAL FIGHT TO DEPAULIE THE STAIL FOR.
- 4. CLEARING AND GRUBBRIO FOR THIS PROJECT WILL NOT BE PUID FOR SEPARATELY BLT SHALL SE INCLUDED IN THE COST OF THE WORK, INCLUDED IN THIS WORK IS THE REMOVAL OF ALL YESCHTATION AND PUINT AMTERIAL TIBBRO CESSIONATION THE PUINT OF BEING PROJECT WHICH A SPECIFICATION WILL SE BEINGLIDD AND PAID FOR IN ACCORDANCE WITH THE SPECIFICATION
- THE CONTRACTOR IS RESPONSIBLE FOR THE RE-ESTABLISHMENT OF ALL SURVEY MONUMENTS DISTURBED. WITHIN THE PROJECT LIMITS.
- THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM FLOODING AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOUNCE OF WATER, SHALL SE PROMPTLY DRIVATERED AND RESTORED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL INDERSTRUME AND ABOVE GROUND UTILITIES WITHIN AND ADMICIST TO THE STIE. THE OMBISSION OF MICH PROJECT MICHAEL STIEND OF THE PLANS IS NOT TO BE CONSIDERED AS THE MONEJOSTENCE OF OR A DETRINITE LOCATION OF DESITING
- 8. CONTRACTOR WILL OBTAIN COPIES OF THE SOILS REPORT FROM THE GEOTECHNICAL ENGINEER AND A COPY WILL BE KEPT ONSITE DURING ALL EARTHWORK OPERATIONS
- 91. THE SITE SHALL BE STRIPPED A MINIMUM OF 0.6' BELOW EXISTING GRADE.
- 10. MAXIMUM CUT/FILL SLOPES SHALL NOT EXCEED 3-1, UNLESS OTHERWISE
- CONTOURS SHOWN ARE FOR FINAL PAVING, SIDEWALK, SLAS, OR GROUND ADJUSTMENT TO THE SUBGRADE IS THE CONTRACTORS RESPONSIBILITY.
- ALL DISTURBED AREAS THAT ARE UNSURFACED OR ARE NOT DESIGNATED AS LANDSCAPE AREAS ARE TO BE SEEDED, FERTILDED, AND WATERED UNTIL A HEALTHY STAND, OF GRASS IS OBTAINED, AND APPROVED AS FINAL STARILIZATION.
- 13. IF DURING THE OVERLOT GRADING PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE AN UNIDENTIFIED SITUATION IS PRESENT, THE SOILS ENGINEER SHALL BE CONTACTED FOR RECOMMENDATIONS.
- 14. IF STRIPPED MATERIALS CUNSISTING OF VEGETATION AND ORGANIC MATERIALS ARE STOCKPILED ON THE SITE. TOPSOIL MAY BE PLACED TO A HEBBHY OF PRIF FEET. BILL FEINCE SHALL BE ALLICED AROUND THE BASE OF THE STOCKPILE AND THE STOCKPILE SHALL BE SECRED WITH MATTA'S SEED MIX MANIPORTY AFTER STRIPPING OPERATIONS ARE COMPLETE.
- 15. ON-SITE MATERIALS SUITABLE FOR FILL BENEATH DRIVES AND PARKING AREAS BEYOND FOR THE BUILDING SHALL BE COMPACTED IN ACCORDANCE WITH GUIDELINES PRESENTED IN THE SOLLS REPORT.
- 16. SPOT ELEVATIONS SHALL TAME PRECEDENCE OVER CONTOURS AND SLOPES SHOWN, THE COMPRACTOR SHALL MOTHY THE ENGINEER OF ANY SPOT ELEVATIONS THAT DO NOT APPEAR TO BE CONSISTENT WITH THE CONTOURS AND BLOPES, SPOT ELEVATIONS AND SPECIFIC PROPILE DESIGN SHALL SE USED FOR GETTING ELEVATIONS OF CURS, GUTTER, AND UTILITIES.
- 17. BENCHMARK VERIFICATION: CONTRACTOR SHALL USE BENCHMARKS AND DATUMS SHOWN REREON TO SET PROJECT SENCHMARK(S), BY RUMBING A LEVEL LOOP BETWEEN AT LEAST TIMO BENCHMARK, AND SHALL PROVIDED BURNEY NOTES OF SUCH TO PROJECT ENGINEER PRIOR TO COMMENCING

- 18. ALL UTILITIES (MANHOLES, VALVE COVERS, CLEANOUTS, VALLTS, BOXES, ETC.) SHALL'SE ADJUSTED TO FINAL GRADE PRIOR TO THE FINAL LIFT OF ASPENIAL.
- 19. ALL EARTH MOVING AND PLACEMENT OPERATIONS SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS IDENTIFIED IN THE SOILS REPORT, GEOTECHNICAL ENGERES RHALL CERTIETY THAT ALL FILL B PLACED AS RECOMMENDED IN THE SOILS REPORT. THE CONTRACTION SHALL HAVE A SIGNED AND SHALL BOYD OF THE SOILS REPORT ON THE STEAT ALL THANKS.
- 20. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS OWN ESTIMATE OF EARTHWORK QUANTITIES
- 21. EXISTING DRAINAGE STRUCTURES ARE TO BE INSPECTED AND REPAIRED AS NEEDED, EXISTING PIPES ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DERRIS UNLESS NOTED HEREIN FOR REMOVAL.
- 22. EUSTING CONTOURS AS PROVIDED BY MATRIX DESIGN GROUP FOR THE PURPOSE OF MATCHING THE PROPOSED TOPOGRAPHY, MAY VARY FROM ACTUAL CONDITIONS IN THE FIELD DUE TO CONSTRUCTION ACTIVITIES.
- 23. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
- 24. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
- 26. SPOT ELEVATIONS REPRESENT FLOWLINE OR FINISH GRADE UNLESS
- 27. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION. IT SHALL SETHE CONTRACTORS RESPONSIBILITY TO REPAIR ANDOR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR RETTER.
- 28. THE CONTRACTOR SHALL ADHERE TO ALL TERMS IS CONDITIONS
  AS OUTLINED IN THE GENERAL NPDES PERMIT FOR STREAM
  WATER DISCHARGE ABSOCIATED WITH CONSTRUCTION ACTIVITIES
- 29. CONTRACTOR SHALL ADJUST AND/OR REMOVE AND REPLACE EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- 31. PERMANENT WATER QUALITY POND'IS LOCATED APPROXIMATELY BO FT TO THE SOUTHWEST: IT IS OWNED AND MAINTAINED BY THE SUBDIVISION
- 32. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- 33. LOCATION OF SOILS STOCKPLES, DESIGNATED FOR YOPSOIL AND BUBBOR.
  STORAGE AREAS, WILL BE DETERMINED IN THE FIELD AT THE START OF
  CONSTRUCTION ACTIVITY AND INDICATED ON THE STORMATER
  MANAGEMENT PLAN BY THE CONTRACTOR WHEN REQUIRED.

#### TIMING

ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING: JUNE 2016 THRU SEPTEMBER 2016

EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETED: NAY 2017

#### . AREA

TOTAL AREA OF THE SITE TO BE CLEARED, EXCAVATED OR GRADED:

RECEIVING WATERS
NAME OF RECEIVING WATERS
SAND CREEK
FOUNTAIN CREEK (ULTIMATE)

NRCS SOIL SURVEY FOR EL PASO COUNTY
SOIL ID No. SOIL TYPE HYDROLO

SOIL TYPE HYDROLOGIC GLASSIFICATION

BLAKELAND-FLUVAQUENT HAPLAQUOLLS

PRING COARSE

SANDY LOAM.

#### EXTREME CAUTION:

71

STE CONTAINS MANY UNDERGROUND HIGH PRESSURE GAS AND PETROLEMI LINES EXCAUNTION WITHIN THE DESIGNATED UTILITY/GAS PROCEEDING THE ATTHORNOON OF THE ATTHORNOON OF THE EARSMENT AND PROVINCE UTILITY LOCATE FAMOUR PROTECTION OF THE EARSMENT AND PROVINCE UTILITY LOCATE FAMOUR PROTECTION IN SECURIOR FAMOUR OF THE COMMENCED THAT THE GENERAL CONTRACTOR PROVINCE A FULL TIME, ON SITE MISSECTION DURING THE COURSE OF CONTRACTOR PROVINCE A FULL TIME, ON SITE MISSECTION DURING THE COURSE OF CONTRACTOR PROVINCE A FULL TIME, ON SITE MISSECTION TO SECURIOR OF THE COURSE OF CONTRACTOR OF THE THE EASSMENT

REFERENCE
DRAWNINGS

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CE OF THE PLANS



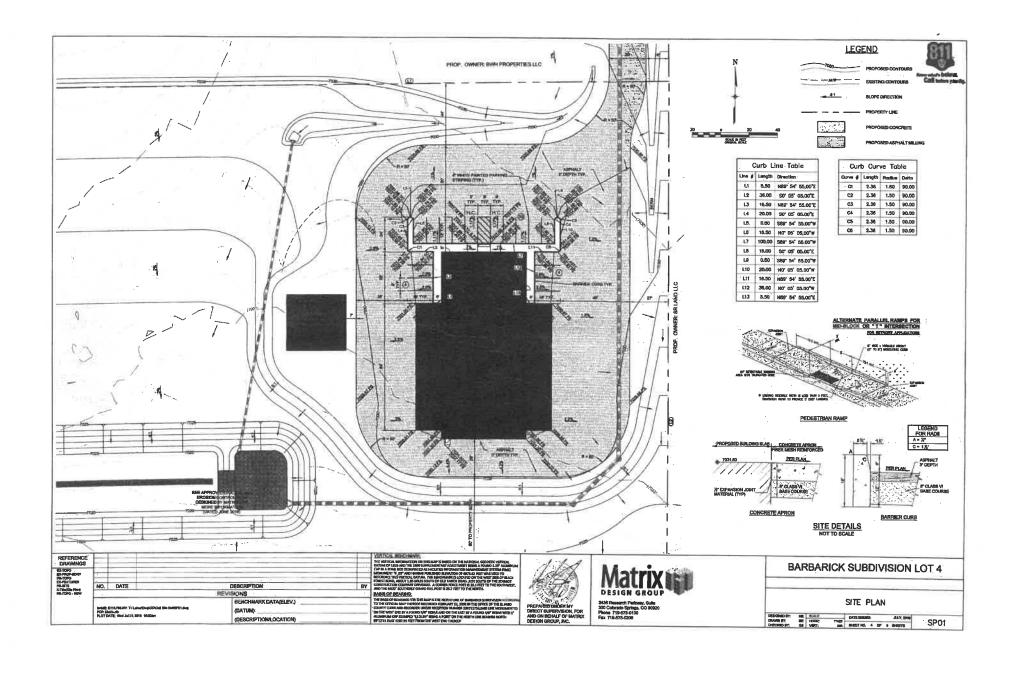
**BARBARICK SUBDIVISION LOT 4** 

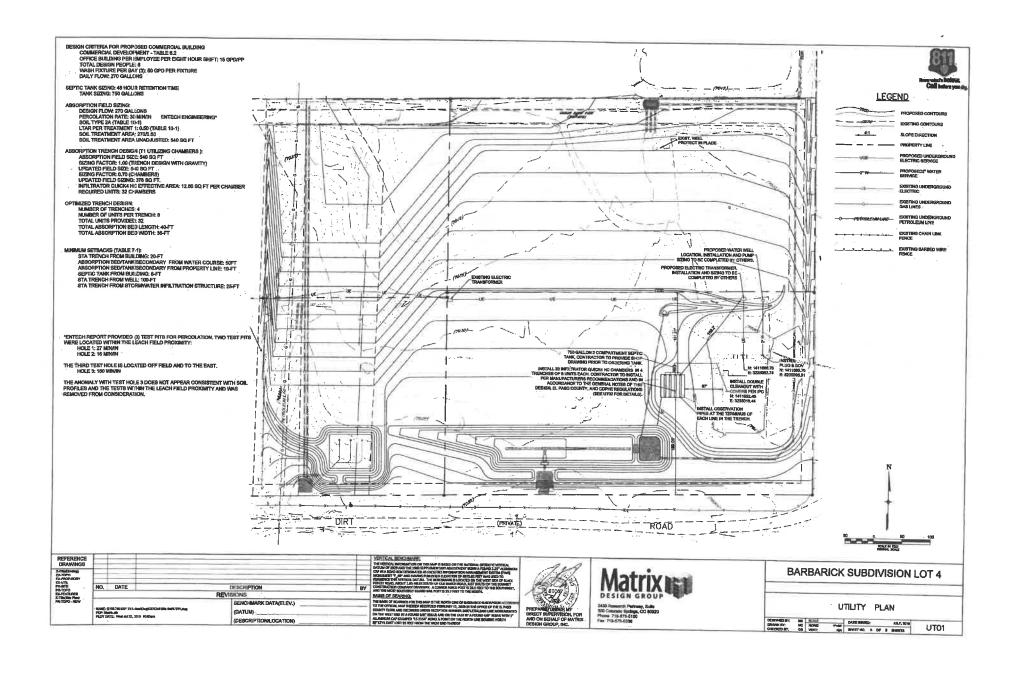
GENERAL NOTES

ID BY: ME HORE: NA ONEETHO, 3 OF 6 HINTER

GN01







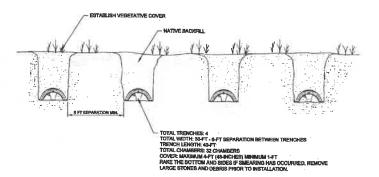
#### SANITARY LEACH FIELD GENERAL NOTES:

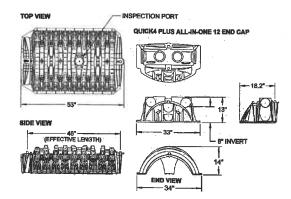
- GRASS, ORGANICS, FILL AND ALL TOPSOIL IN THE PRIMARY LINCHING AREA ARE TO BE REMOVED PRIOR TO THE PLACEMENT OF BELECT FILL AREA IS TO BE KEPT SOLVERED AFTER STREPPING TOPSOIL, HEAVY EQUIPMENT IS TO SE KEPT OUT OF THE PROPOSED BANTARY ISSPECIAL SYSTEM AREAS.
- LISE APPROVED TWO COMPARTMENT SEPTIC TAME PLACED LEVEL (H-20 LOADING IF PLACED UNDER DRIVE OR PARROND AMEA).
  TANK COVERS ARE TO BE EXTENCED TO GRADE AS PRODURED, ALL NEWLY INSTALLED TANKS SHALL MAVE AN APPROVED
  NON-BYPASS PEPULIENT HATER AT THE COUTLET.
- SEPTIC TABLE, VALETS, PERF TANCE, AND OTHER TREATBERT COMPONENTS SHALL MOT ALLOW RELITATION OF DROUGH WATER OR GURFACE WATER AND SHALL MOT ALLOW THE RELEASE OF WASTERWITER OF LIQUIDIST THROUGH OTHER THAN DESIGNED OPENMAR.
- ALL TAMOS AND TREATMENT UNITS SHALL IN PERSONNENTLY AND LODGELY MANAGED BY A LOCATION FOR THE PURPOSE OF INSPECTION FIXTH STREADY VENUEL PRIOR TO INCOPALING, IDENTIFICATION SHALL MOLLIUS MANUFACTURES, MODEL OR SERVL NAMES, EFFECTIVE VOLUME AND UNIT OF MEMBERS, MANAGEM MOST FOR COVER AND EXTERNAL COLUMN, NEAT AND OUTLIET MANAGEMENTS.
- SEPTIC TANKS TERTING AND CERTIFICATIONS SHALL BE PERFORMED BY THE MANUFACTURER MEETING CURRENT COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT GUIDELINES.
- SEPTIC TANK MALET INVESTIS BAUL, BE A MINBARM TWO INCHES HIGHER THAN THE CUTLET INVEST, BALET TEE OR BAFFLE SHALL EXTERN AROVE THE GURFACE OF THE LIGHAR AT LAWRET FIVE BOASES AND SHALL EXTERN A MINE SERVET ROWSET WHICH IS BLUDT THE LUGBLE COUNTER PARKET TO BE HIGHERISED OF THE YEAR TO THE PRINCE, AT LEAST THAN THE LIGHT AND THALL HE A NAMEAU SAINCHES AND THE MAXISMA DEPTH SHALL HOT DICKED THE TANK LEGATE, AT LEAST TO THE MARKALE HOLD LESS THAN 20-DACHES ACROSS SHALL BE PROVIDED FOR EXCLOSURATIONS OF THE SERVET TANK.
- ALL WASTEWATER LINES USED IN OWYS SHALL BE CONSTRUCTED OF COMPATIBLE PIPE. WHERE UNPERFORATED PLASTIC PIPE AND FITTINGS ARE USED FOR GRANTY FLOW SCHEDULE 40 IS PROFESSED.
- SET ALL DISTRIBUTION BUXES TO DISTRIBUTE ESTALLANT EQUALLY WITO LATERAL LINES OF THE ABBORPTION BYSTEM. THE BOX SHALL BY ECONSTRUCTED WHIT THE ONLE FINEST AT LEAST ONE WORL ABOVE THE LEVEL OF THE COUNTRY INVESTED. ACCESSED TO THE BOX SHALL BY EVOLVED WHIT A MANNE PLE RESEAR OF A BOX DEED ROLL OF THE COP OF THE BOX DOZEN BY TRESCIPE FINAL BRANCH.
- CHAMBERS MUST BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS WITH THE BASE ON THE INFLTRATIVE SURFACE. EFFILIENT MAY BE DISTRIBUTED BY GRAVITY OR PRESSURE DOSING.
- 10. MO AR CONDITIONING, REPROSERATION, WATER BOFTENIER RESIDUES, SURFACE OR SUBSURFACE DRAMS ARE TO SE COMMECTED TO THE SANITARY DISPOSAL SYSTEM.
- 11. FOOTING DRAINS AND CAPLETS ARE TO BE A MINIMUM 25-FT FROM THE SAMITARY DISPOSAL SYSTEM.
- SELECT FILL SHALL BE COMPRISED OF CLEAN SAND & GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES AS APPROVED BY THE GEOTECHNICAL ENGINEER.
- 12. THE LICENSES NISTALLER IS RESPONSIBLE FOR PREFARMS THE LEAGHING APEA WITH NECESSARY RELECT FILL. THE TOPPOLL IN THE ISCARRY REPORT APEA MUST BE REMOVED AND THE SUBSICION OF THE PRESENTATION OF FILL. THE WESTALLER SHALL IN LIVER THE RECESSARY FROM POPER OF THE PRESENTATION OF THE PR
- 14. OBSERVATION PORTS SHALL BE INSTALLED AT BOTH ENDS OF ALL TRENCHES.
- 15. CONTRACTOR SHALL INSTALL DOWN FACING HOLES EVERY 25-FT TO ALLOW FOR SYSTELL DRAINING AND PREVENT PROFIDE.
- 16. PER EL PASO COUNTY MAINTEMANCE AND CLEANING FREDIENCIES ARE AS FOLLOWS:

  16.1. SEPTIC TAMOS PREFECTION EVERY 2 YEARS, CLEANED OR PRIMPED EVERY 2 YEARS OR AS WEEDED

  16.2. TLI SYSTEMS BAUL SE EVALUATED BY A LICENSED OWNS PROFESSIOUL A IMMUNI OF EVERY 4 YEARS









VERTICAL BENCHMARK

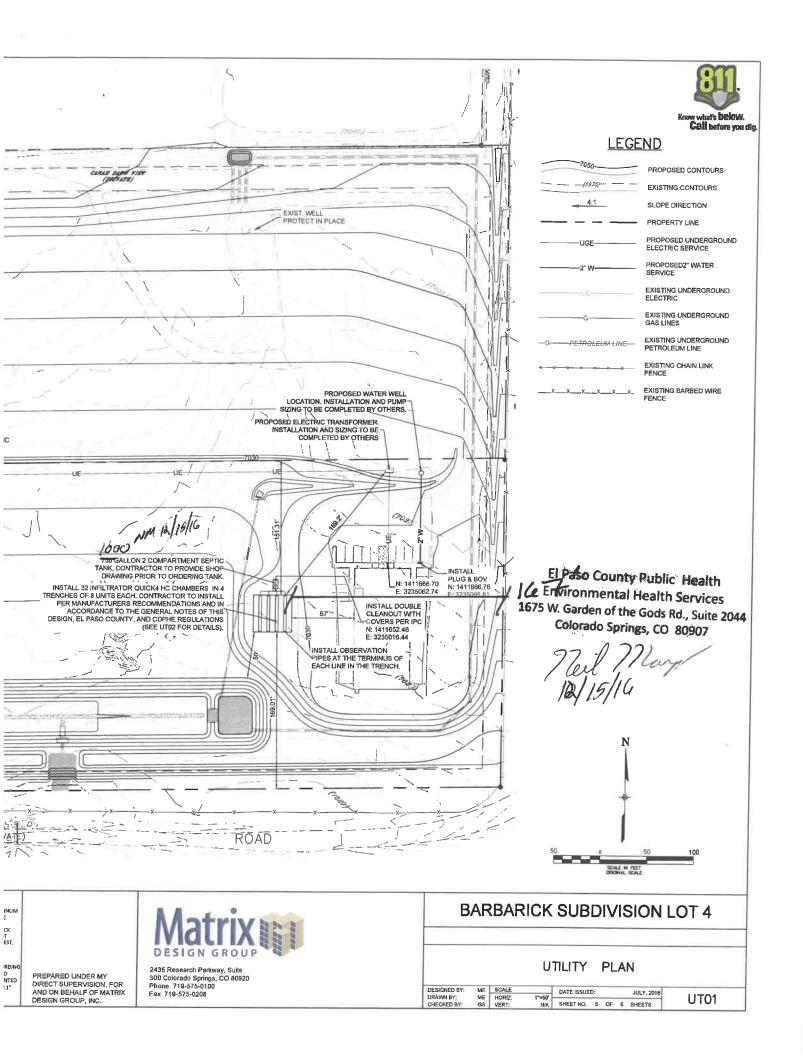




**BARBARICK SUBDIVISION LOT 4** 

SANITARY LEACH FIELD DETAILS

DATE ISSUED. AL V. 2010 INA DIFECTION. O OF C DIFECTS UT02



December 8, 2015

Wykota Construction 430 Beacon Light Road, Suite 130 Monument, Colorado 80132

Attn: Dan Greenwalt

Re: OWTS - Site Evaluation

Carah Dawn View and Cliff Allen Point

Lot 4, Barbarick Subdivision El Paso County, Colorado

Dear Mr. Greenwalt:

As requested, personnel of Entech Engineering, Inc. have observed the excavation of one test pit in the area of the proposed on-site wastewater treatment system (OWTS) absorption field location at the above referenced site. This letter presents the results of our testing.

The percolation test was performed on November 4 and 5, 2015. The locations of the profile, percolation holes, and test pit are shown in Figure 1. The test pit was excavated on November 29, 2016 to an approximate depth of 7 feet. Soils encountered in the test pit consisted of fine to medium grained loamy sand fill overlying native sandy clay. Approximately 6 feet of fill was encountered in the test pit. The Test Pit Location Map, Test Pit Log and Laboratory Test Results are shown in Figures 1 through 4. Bedrock or signs of groundwater were not encountered in the test pit.

Visual and tactile evaluation of the soils was performed. The limiting layer encountered in the test pit is the sandy clay which classifies as USDA Soil Type 4. For design purposes a LTAR Value of 0.20 gallons per day per square foot is recommended, for Treatment Level 1. Due to the restrictive clay layer and commercial use, a designed system will be required. Installation of the system should be performed in accordance with El Paso County Health Department regulations and requirements.

We trust that this has provided you with the information you required. If you have any questions or need additional information, please do not hesitate to contact us.

Respectfully Submitted,

ENTECH ENGINEERING, INC.

Logan L. Langford Geologist

LLL/crf

Entech Job No. 151952 AAprojects/2015/151952 owts-site evaluation Reviewed by:

Hauschell

Mark H. Hauschild, P.E. Senior Engineer

505 ELKTON DRIVE

PHONE (719) 531-5599

COLORADO SPRINGS, CO 80907

(719) 531-5238

TEST PIT NO. DATE EXCAVATED 11/29/2016 . Job# 151952 CLIENT WYKOTA CONSTRUCTION LOCATION **CARAH DAWN & CLIFF ALLEN POINT** REMARKS REMARKS Soil Structure Shape Soil Structure Shape Soil Structure Grade Soil Structure Grade **USDA Soil Type USDA Soil Type** Depth (ft) Depth (ft) Samples Samples Symbol Symbol loamy sand fill, fine to medium grained, tan to light brown 1 1 2 2 3 3 4 4 5 5 6 6 native very sandy clay, 4 m gr dark brown 7 7 8 8 9 9 10 10

Soil Structure Shape granular - gr platy - pl blocky - bl prismatic - pr single grain - sg massive - ma Soil Structure Grade weak - w moderate - m strong - s loose - l



TEST PIT LOG			
DRAWN:	DATE:	CHECKED.	DATE: 12/6/16

JOB NO.: 15195 Z FIG NO. 2 BORING NO. TP-1

3-5

UNIFIED CLASSIFICATION AASHTO CLASSIFICATION

SM

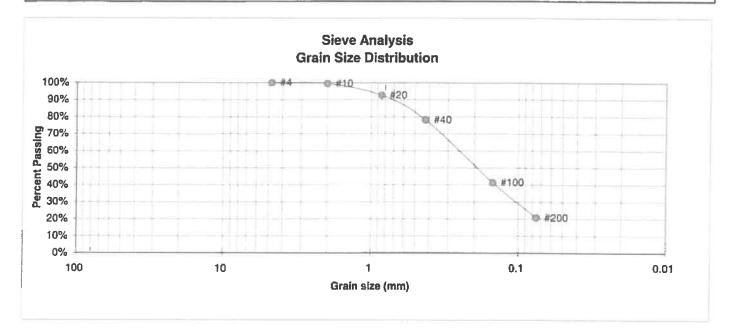
TEST BY JOB NO.

BL 151952

DEPTH(ft)
CLIENT

WYKOTA CONSTRUCTION

PROJECT CARAH DAWN & CLIFF ALLEN



U.S. Sieve #	Percent Finer	Atterberg Limits
3"	<u>r nver</u>	Plastic Limit
1 1/2"		Liquid Limit
3/4"		Plastic Index
1/2"		
3/8"		
4	100.0%	<u>Swell</u>
10	99.4%	Moisture at start
20	92.5%	Moisture at finish
40	78.1%	Moisture increase
100	41.3%	Initial dry density (pcf)
200	20.7%	Swell (psf)

DRAWN



LABORATORY TEST RESULTS				
DATE:	CHECKED:	DATE. 12/6/16		

JOB NO... 151952 FIG NO... BORING NO. TP-1 DEPTH(ft) 6.5-7 UNIFIED CLASSIFICATION
AASHTO CLASSIFICATION

TEST BY JOB NO.

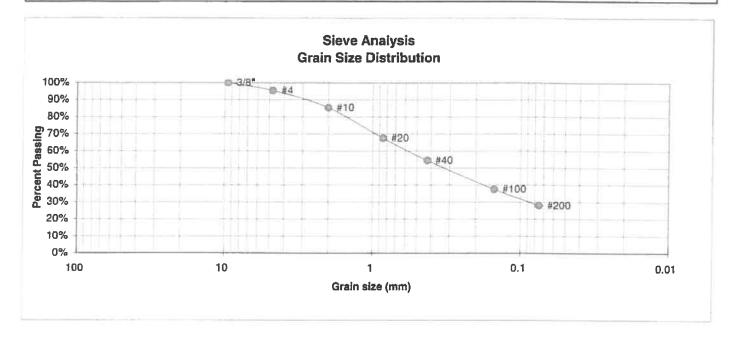
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CLIENT '

WYKOTA CONSTRUCTION

PROJECT CARAH DAWN & CLIFF ALLEN



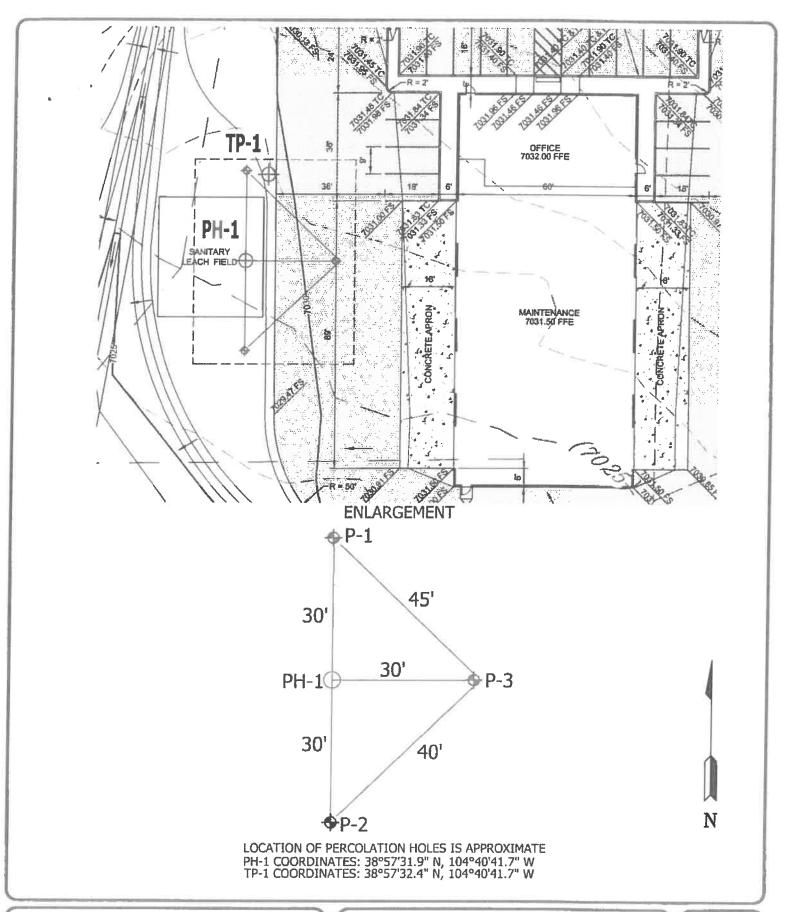
U.S.	Percent	Atterberg
Sieve #	<u>Finer</u>	<u>Limits</u>
3"		Plastic Limit
1 1/2"		Liquid Limit
3/4"		Plastic Index
1/2"		
3/8"	100.0%	
4	95.4%	<u>Swell</u>
10	85.3%	Moisture at start
20	67.4%	Moisture at finish
40	54.4%	Moisture increase
100	37.5%	Initial dry density (pcf)
200	27.9%	Swell (psf)

DRAWN:



LABORAT RESULTS	ORY TEST	
DATE:	CHECKED:	DATE: 12/6/16

JOB NO: 151952 FIG NO.:





PERCOLATION TEST & TEST PIT LOCATIONS CARAH DAWN & CLIFF ALLEN POINT FOR WYKOTA CONSTRUCTION

DEATH BY DATE GRAVE DESIGNED BY

12/5/16

DESIGNED BY CHECKED

JOB NO 151952 FIC NO 1