

Page 1 of 4

# **MEMORANDUM**

Date: March 5, 2016

To: Jacob Ballstaedt

From: Hales Engineering

Subject: Salt Lake City - McClelland Street Subdivision Trip Generation Study

UT15-742

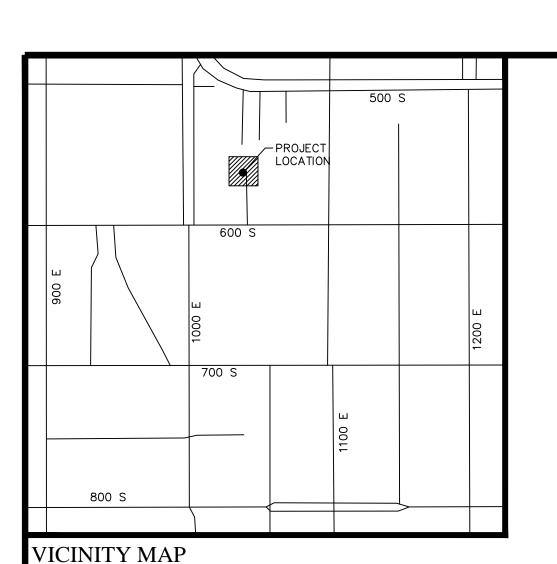
# **Purpose**

The purpose of this memorandum is to report on a trip generation study completed for the proposed McClelland Street Subdivision in Salt Lake City, Utah. The proposed subdivision is planned to have seven single family homes, replacing the three existing homes on the property. A vicinity map of the proposed project is provided in Figure 1. A site layout of the proposed development is included in the Appendix of this memorandum.



Figure 1. Vicinity Map for the Proposed Subdivision

# **Project Conditions**



**GENERAL NOTES** 

CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION, AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

NANCY M. H. ANDERSON 7022/1331

EXISTING FENCE (REMOVE)-

ANY AND ALL DISCREPANCIES IN THESE PLANS ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO COMMENCEMENT OF CONSTRUCTION.

ALL CONSTRUCTION SHALL ADHERE TO APWA STANDARD PLANS AND SALT LAKE CITY STANDARDS AND SPECIFICATIONS

ALL SANITARY SEWER CONSTRUCTION SHALL ADHERE TO SALT LAKE PUBLIC UTILITIES STANDARDS AND SPECIFICATIONS

. ALL UTILITIES AND ROAD IMPROVEMENTS SHOWN ON THE PLANS HEREIN SHALL BE CONSTRUCTED USING REFERENCE TO SURVEY CONSTRUCTION STAKES PLACED UNDER THE SUPERVISION OF A PROFESSIONAL LICENSED SURVEYOR WITH A CURRENT LICENSE ISSUED BY THE STATE OF UTAH. ANY IMPROVEMENTS INSTALLED BY ANY OTHER VERTICAL OR HORIZONTAL REFERENCE WILL NOT BE ACCEPTED OR CERTIFIED BY THE ENGINEER OF RECORD.

# **NOTICE**

BEFORE PROCEEDING WITH THIS WORK, THE CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL CONDITIONS, QUANTITIES, DIMENSIONS, AND GRADE ELEVATIONS, AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER.

# ENGINEER'S NOTES TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. IF UTILITY LINES ARE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT IDENTIFIED BY THESE PLANS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.

2. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY, THE OWNER, AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

3. UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

ALL CONTOUR LINES SHOWN ON THE PLANS ARE AN INTERPRETATION BY CAD SOFTWARE OF FIELD SURVEY WORK PERFORMED BY A LICENSED SURVEYOR. DUE TO THE POTENTIAL DIFFERENCES IN INTERPRETATION OF CONTOURS BY VARIOUS TYPES OF GRADING SOFTWARE BY OTHER ENGINEERS OR CONTRACTORS, FOCUS DOES NOT GUARANTEE OR WARRANTY THE ACCURACY OF SUCH LINEWORK. FOR THIS REASON, FOCUS WILL NOT PROVIDE ANY GRADING CONTOURS IN CAD FOR ANY TYPE OF USE BY THE CONTRACTOR. SPOT ELEVATIONS AND PROFILE ELEVATIONS SHOWN IN THE DESIGN DRAWINGS GOVERN ALL DESIGN INFORMATION ILLUSTRATED ON THE APPROVED CONSTRUCTION SET. CONSTRUCTION EXPERTISE AND JUDGMENT BY THE CONTRACTOR IS ANTICIPATED BY THE ENGINEER TO COMPLETE BUILD-OUT OF THE INTENDED IMPROVEMENTS.

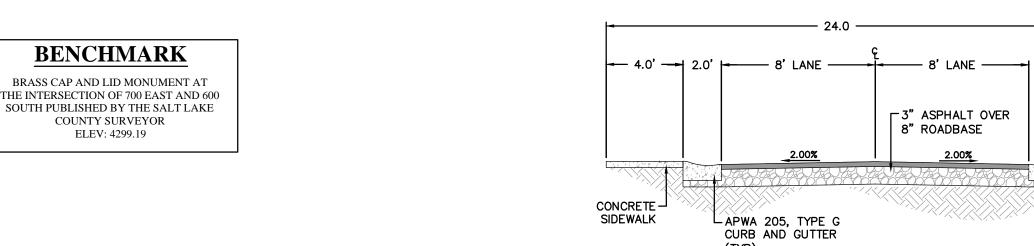
# STATEMENT OF ACCURACY

Vertical data (contour lines and/or spot elevations, etc.) shown hereon is based on the NAVD88 'foot equivalent' elevation of 4299.19 published by the Salt Lake County Surveyor on a brass cap ring & lid monument at the intersection of 700 East & 600 South.

# CONTACTS

**ENGINEER & SURVEYOR** FOCUS ENGINEERING & SURVEYING 502 WEST 8360 SOUTH SANDY, UTAH 84070 (801) 352-0075 CONTACT: JASON BARKER

OWNER/DEVELOPER GARBETT HOMES 273 NORTH EAST CAPITOL STREET SALT LAKE CITY, UTAH 84103 (801) 456-2430 CONTACT: XXXX XXXXX



AMERICAN STAR

INVESTMENT HOLDINGS

LLC

10021/4092

PRIVATE ROAD SECTION

# SITE NOTES

JEAN MARIE & YOLANDE

WERSINGER

8597/8875

1. ALL EXISTING BUILDINGS AND HARDSCAPE FEATURES LOCATED ON THE EXISTING PROPERTY ARE TO BE REMOVED. A SEPARATE DEMOLITION PERMIT MAY BE REQUIRED FROM THE CITY PRIOR TO DEMOLITION.

2. A PORTION OF THE EXISTING SEWER IS TO BE REMOVED AS INDICATED ON PLANS. ALL SEWER MANHOLES TO REMAIN AND BE USED TO CONNECT PROPOSED SEWER LINES AS SHOWN ON PLANS.

3. THE EXISTING CULINARY WATER LINE LOCATED ON McCLELLAND STREET IS TO BE CONNECTED TO THE PROPOSED CULINARY WATER LINE TO SERVICE THE SUBDIVISION. EXISTING WATER SERVICE METER LOCATED WITHIN LOT 7 IS TO BE REMOVED.

FIRE HYDRANT #10

STREET

PER SLC STD.

EXIST. SSMH #01-

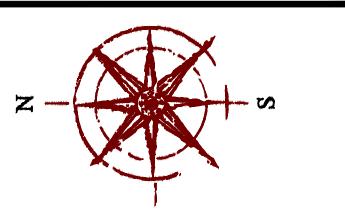
INV. IN=4434.50 (N)

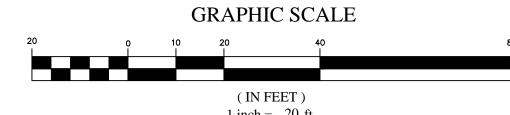
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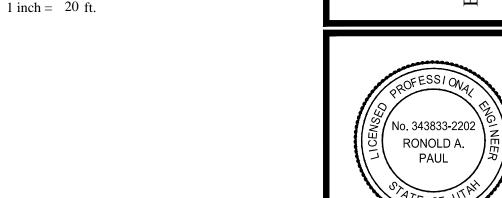
(TO REMAIN)

DO NOT PLACE - ANY BACKFILL

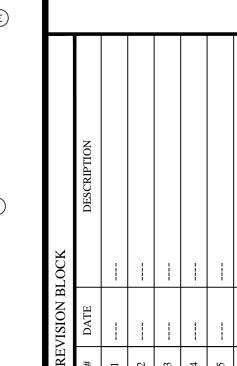
IN METER BOX





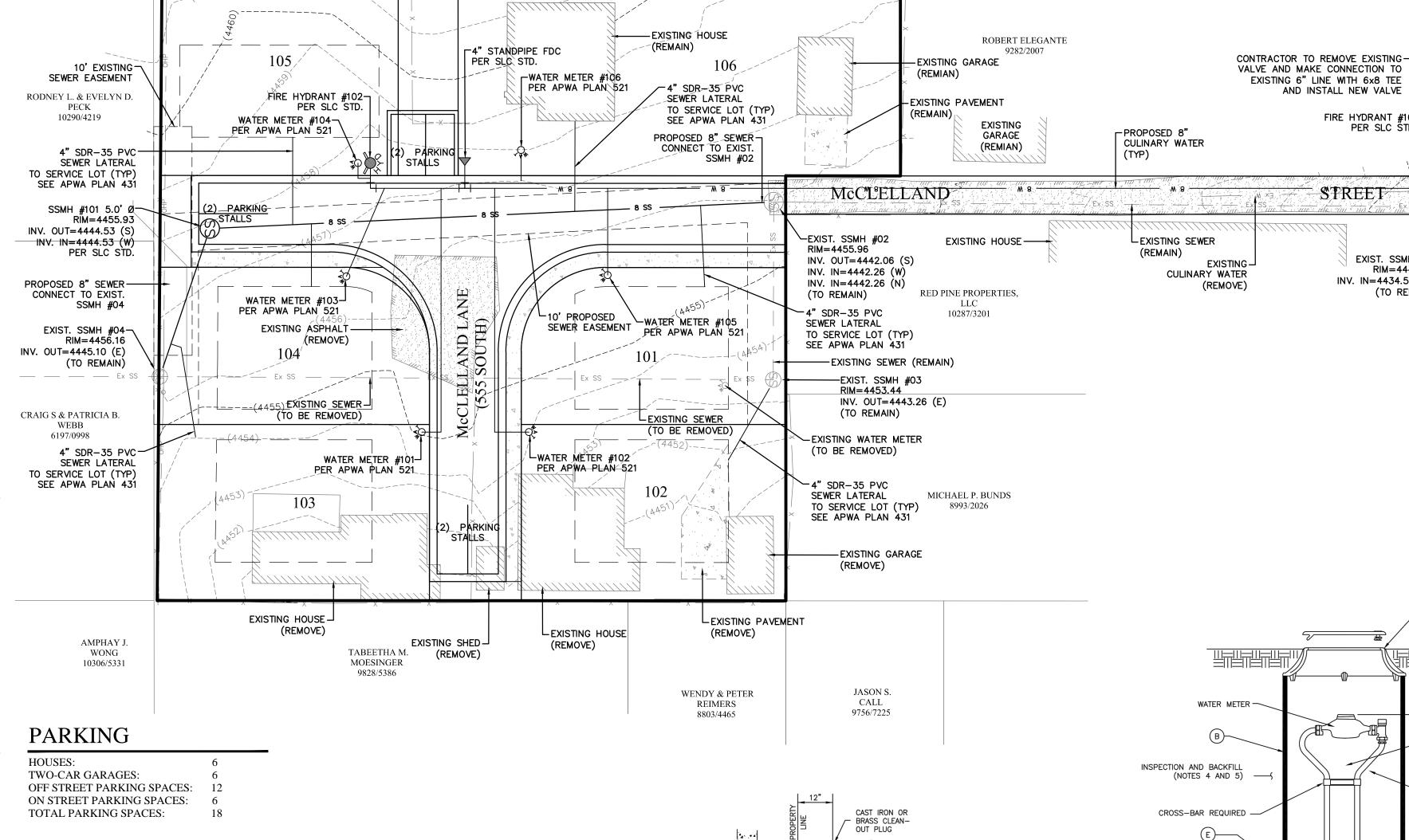


# M





JSB 1"=20' 2/8/2016 15-071



NO-HUB\_ COUPLING VARIES
MIN. 2'-0"
FROM ANY
STRUCTURE 3" MIN. ABS OR CAST IRON\_ UNDER PERMANENT TRENCH BACKFILL (PLAN No. 381 AND 382) GROUT AROUND SEWER MAIN 4" SEWER PIPE. MIN. SLOPE 1/4"/FT -CONNECTION TO BE 45° TO THE 1/8 BEND C.I. GRADE REQUIREMENTS 4" PIPE - 2.0% MIN. 6" PIPE - 1.0% MIN. CENTER OF SEWER MAIN NO HUB COUPLING -\* SEWER SADDLE PER \_ (NOTE 2) \* IN HIGH WATER TABLE BOWL WAX REQUIRED

> **APWA DETAIL** SEWER LATERAL CONNECTION PLAN NO. 431

**SECTION** LEGEND ITEM DESCRIPTION FRAME AND COVER DUCTILE IRON COVER (driveway) METER BOX (18" TO 21" DIAMETER) CORRUGATED PE, PVC, CMP OR MATERIAL ACCEPTABLE TO AGENC OPTIONAL BACKFLOW PROTECTION PER AGENCY REQUIREMENTS 3/4" METER YOKE OPTIONAL BACKFLOW PROTECTION PER AGENCY REQUIREMENTS 1" METER YOKE COPPER PIPE TYPE K (SOFT)

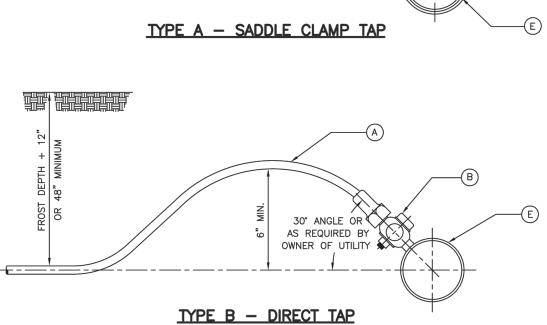
APWA DETAIL

\* FURNISHED BY UTILITY AGENCY

\_\_ (NOTE 3)

1" WATER SERVICE





30° ANGLE OR

OWNER OF UTILITY

AS REQUIRED BY

		LEGEND	
No.	*	ITEM	DESCRIPTION
A		COPPER PIPE	TYPE K - SOFT
В		CORPORATION STOP	BRASS
0		SERVICE SADDLE CLAMP	(D.I., C.I., A.C.) **
(		SERVICE SADDLE CLAMP	(P.V.C.)
(LL)		WATER MAIN PIPE	(D.I., C.I., A.C., P.V.C.)

APWA DETAIL

1" WATER TAP

PLAN NO. 551

\* FURNISHED BY UTILITY AGENCY \*\* DI & CI PIPE MAY BE DIRECT TAPPED

PLAN NO. 521

# LOCATION 800 S VICINITY MAP

## Curve Table CURVE RADIUS DELTA LENGTH CHORD DIRECTION CHORD LENGTH C1 | 22.00 | 90°02'14" | 34.57 N44°58'53"W 31.12 C2 22.00 89°57'46" 34.54 N45°01'07"E 31.10

NANCY M. H.

ANDERSON

7022/1331

RODNEY L. & EVELYN D.

10290/4219

CRAIG S & PATRICIA B

6197/0998

AMPHAY J.

10306/5331

3.5" FLAT BRASS

MONUMENT

(RING AND LID)

**MONUMENT NOT** 

(CALCULATED

POSITION)

**FOUND** 

"REDCON"

REBAR AND CAP L.S. 152956

10' EXIST.

SEWER EASEMENT

3346 sqft

553 SOUTH

552 SOUTH

104

2797 sqft

70.78

3265 sqft

792.16

► NOT SET

N0°03'48"E

(FOUND)

	Eas	Easement Line Table						
	LINE	DIRECTION	LENGTH					
	(L1)	S89°34'00"E	55.00					
	(L2)	S02°54'31"E	160.41					
	(L3)	S00°24'35"W	3.22					
	(L4)	S89°57'37"W	63.12					
	(L5)	S00°00'00"E	10.00					
	(L6)	S89°57'40"W	52.78					
	(L7)	S02°54'31"E	143.60					
	(L8)	S89°58'13"W	45.50					
	(L9)	S00°01'21"W	10.45					
l '								

# PREPARED FOR:

# GARBETT HOMES

273 NORTH EAST CAPITOL STREET SALT LAKE CITY, UTAH 84103, PH: 456-2430

PREPARED BY: 502 WEST 8360 SOUTH SANDY, UTAH 84070 PH: (801) 352-0075

www.focusutah.com

OF \_\_\_\_\_ SHEETS

# McCLELLAND ENCLAVE

(A PLANNED DEVELOPMENT SUBDIVISION)

A PORTION OF LOT 3, BLOCK 13, PLAT "F", SALT LAKE CITY SURVEY SALT LAKE CITY, UTAH

SE 1/4 SECTION 5, T1S, R1E, SLB&M

6245 sqft

561 SOUTH

EASEMENT

I 560 SOUTH

2730 sqft

3184 sqft

164.25

(HATCH)

JEAN MARIE & YOLANDE

WERSINGER

► FOCUS REBAR AND CAP

- REBAR AND CAP

ILLEGIBLE

RED PINE PROPERTIES

10287/3201

MICHAEL P. BUNDS

**NOTES** 

FOCUS REBAR AND CAP

- REBAR AND CAP

- POINT OF BEGINNING

JASON S.

CALL

9756/7225

(FOUND)

15.0'

FOCUS REBAR AND CAP

WENDY & PETER

REIMERS

8803/4465

ROBERT ELEGANTE

N0°02'14"E 30.01 McCLELLAND (10' ROW) STREET (1030 EAST)

AMERICAN STAR

**INVESTMENT HOLDINGS** 

10021/4092

S0°02'32"W 192.90

McCLELLAND (24 ROW) STREET (1030 EAST)

10.0 PROPOSED SEWER EASEMENT

MCCLEL (555

N0°01'39"E

2" DOMED CAP

(RING AND LID)

2" DOMED CAP

(RING AND LID)

MONUMENT

MONUMENT

TABEETHA M.

MOESINGER

9828/5386





(IN FEET) 1 inch = 20 ft.STREET MONUMENT AT 600 SOUTH & 1100 EAST Professional Land Surveyor

# **BOUNDARY DESCRIPTION**

SURVEYOR'S CERTIFICATE

SURVEYOR, AND THAT I HOLD CERTIFICATE NUMBER \_\_\_\_\_ AS PRESCRIBED UNDE THE LAWS OF THE STATE OF UTAH. I FURTHER CERTIFY THAT BY THE AUTHORITY (

THE OWNERS, I HAVE MADE A SURVEY OF THE TRACT OF LAND SHOWN ON THIS PLA

AND DESCRIBED BELOW, AND HAVE SUBDIVIDED SAID TRACT OF LAND INTO LO

McCLELLAND ENCLAVE AND THAT THE SAME HAS BEEN CORRECTLY SURVEYED AND STAKED ON TH

AND STREETS, HEREAFTER TO BE KNOWN AS:

GROUND AS SHOWN ON THIS PLAT.

, DO HEREBY CERTIFY THAT I AM A PROFESSIONAL LAN

Beginning at a point on the west line of Lot 3, Block 13, Plat "F", Salt Lake City Survey located N0°01'39"E along the lot line 165.08 feet from the Southwest Corner of said lot. Said Lot corner is also located N89°57'37"E along the monument line of 600 South Street 230.56 feet and North 57.43 feet from a Salt Lake City Monument at the intersection of 600 South and 1000 East; thence N0°01'39"E along the lot line 164.25 fee to a fence corner; thence S89°34'00"E along a fence line and extension thereof 165.17 to the east line of said lot thence S0°02'31"W along the lot line 192.90 feet to the northeast corner of that Real Property described in Deec Book 9282 Page 2007 of the Official Records of Salt Lake County; thence S89°57'40"W along said deed 54.04 feet to the easterly line of McClelland Street; thence N0°02'14"E along said Street 30.01 feet; thence S89°57'41"W 111.08 feet to the point of beginning.

A portion of Lot 3, Block 13, Plat "F", Salt Lake City Survey, more particularly described as follows

Contains: 0.66+/- acres or 28,636+/- s.f.

# OWNER'S DEDICATION

KNOWN ALL BY THESE PRESENTS THAT WE THE UNDERSIGNED OWNER'S OF THE DESCRIBE TRACT OF LAND ABOVE, HAVING CAUSED THE SAME TO BE SUBDIVIDED INTO LOTS AND STREETS TO HEREAFTER BE KNOWN AS

# McCLELLAND ENCLAVE

DO HEREBY DEDICATE FOR THE PERPETUAL USE OF THE PUBLIC ALL PARCELS OF LAND SHOWN ON THIS PLAT AS INTENDED FOR PUBLIC USE, AND WARRANT, DEFEND, AND SAVE TH CITY HARMLESS AGAINST ANY EASEMENTS OR OTHER ENCUMBRANCES ON THE DEDICATE STREETS WHICH WILL INTERFERE WITH THE CITY'S USE, OPERATION, AND MAINTENANCE O THE STREETS AND DO FURTHER DEDICATE THE EASEMENTS AS SHOWN FOR THE USE BY AL SUPPLIERS OF UTILITY OR OTHER NECESSARY SERVICES.

IN WITNESS WHEREOF, WE HAVE HEREUNTO SET OUR HANDS THIS \_\_\_\_\_ DAY O

A.D. 20		
: RBETT HOMES		

# LIMITED LIABILITY ACKNOWLEDGMENT

\_\_DAY OF \_\_\_\_\_A.D. 20 \_\_\_ PERSONALLY APPEARED BEFORE ME THE UNDERSIGNED NOTARY PUBLIC, IN AN FOR THE COUNTY OF SALT LAKE, IN SA DULY SWORN, ACKNOWLEDGED TO ME THAT HE IS TH

THAT HE SIGNED THE OWNERS DEDICATION FREELY AND VOLUNTARILY FOR AND BEHALF OF SAID LIMITED LIABILITY COMPANY FOR THE PURPOSES THERE MENTIONED.

ЛY	COMMISSION EXPIRES	

RESIDING IN SALT LAKE COUNTY

NOTARY PUBLIC

# LIMITED LIABILITY ACKNOWLEDGMENT

\_\_DAY OF \_\_\_ \_\_\_A.D. 20 \_\_\_ PERSONALLY APPEARED BEFORE ME THE UNDERSIGNED NOTARY PUBLIC, IN AN FOR THE COUNTY OF SALT LAKE, IN SAI DULY SWORN, ACKNOWLEDGED TO

L.L.C., A UTAH L.L.C. AN THAT HE SIGNED THE OWNERS DEDICATION FREELY AND VOLUNTARILY FOR AND BEHALF OF SAID LIMITED LIABILITY COMPANY FOR THE PURPOSES THERE

NOTARY PUBLIC RESIDING IN SALT LAKE COUNTY

# **CITY ATTORNEY**

DATE OF PREPARATION: 2/8/2016

APPROVED AS TO FORM THIS \_\_\_\_\_DAY OF \_\_\_\_\_ A.D. 20\_\_

SALT LAKE CITY ATTORNEY

STREET MONUMENT AT -

600 SOUTH & 1000 EAST

# McCLELLAND ENCLAVE (A PLANNED DEVELOPMENT SUBDIVISION)

PUBLIC UTILITIES DEPT. NUMBER \_ APPROVED AS TO SANITARY SEWER, STORM DRAINAGE AND WATER UTILITY DETAIL THIS \_\_\_\_\_ DAY OF\_ ACCOUNT \_\_\_\_\_ A.D. 20\_\_\_\_ BY THE SALT LAKE COUNTY PLANNING COMMISSION SHEET \_\_\_\_\_

SALT LAKE PUBLIC UTILITIES DIRECTOR

SALT LAKE VALLEY HEALTH **DEPARTMENT** APPROVED THIS \_ APPROVED THIS \_

SALT LAKE VALLEY HEALTH DEPT.

(S0°00'46"E 791.87)

792.18

CITY PLANNING DIRECTOR \_\_ DAY OF\_ SALT LAKE CITY PLANNING DIRECTOR

CITY ENGINEERING DIVISION I HEREBY CERTIFY THAT THIS OFFICE HAS EXAMINED THIS PLAT AND IT IS CORRECT IN ACCORDANCE WITH INFORMATION

ON FILE IN THIS OFFICE CITY ENGINEER CITY SURVEYOR

CITY APPROVAL PRESENTED TO SALT LAKE CITY THIS \_\_\_\_\_ DAY OF \_ A.D. 20\_\_\_\_ AT WHICH TIME THIS SUBDIVISION WAS APPROVED AND ACCEPTED. SALT LAKE CITY DEPUTY RECORDER SALT LAKE CITY MAYOR

1. PROJECT BENCHMARK: NAVD88 FOOT EQUIVALENT ELEVATION OF

4299.19 PUBLISHED BY THE SALT LAKE COUNTY SURVEYOR ON THE STREET MONUMENT AT THE INTERSECTION OF 700 EAST AND 600 SOUTH.

2. HORIZONTAL CLOSURE OF BOUNDARY IS 1:284,141.

SOUTHWEST CORNER OF

SOUTHWEST CORNER OF -

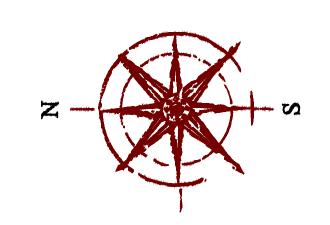
BLOCK 13, PLAT "F", SALT LAKE CITY SURVEY

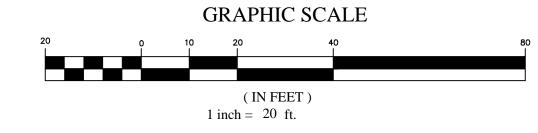
LOT 3, BLOCK 13, PLAT "F", SALT LAKE CITY SURVEY

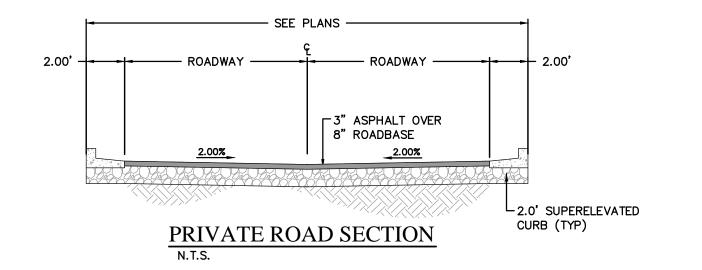
> SALT LAKE COUNTY RECORDER STATE OF UTAH, COUNTY OF SALT LAKE, RECORDED AND FILED AT THE REQUEST OF:

NUMBER \_ ACCOUNT \_\_\_\_\_ SHEET \_\_\_\_\_ SALT LAKE COUNTY RECORDER

OF \_\_\_\_\_ SHEETS







# VERTICAL STATEMENT OF ACCURACY

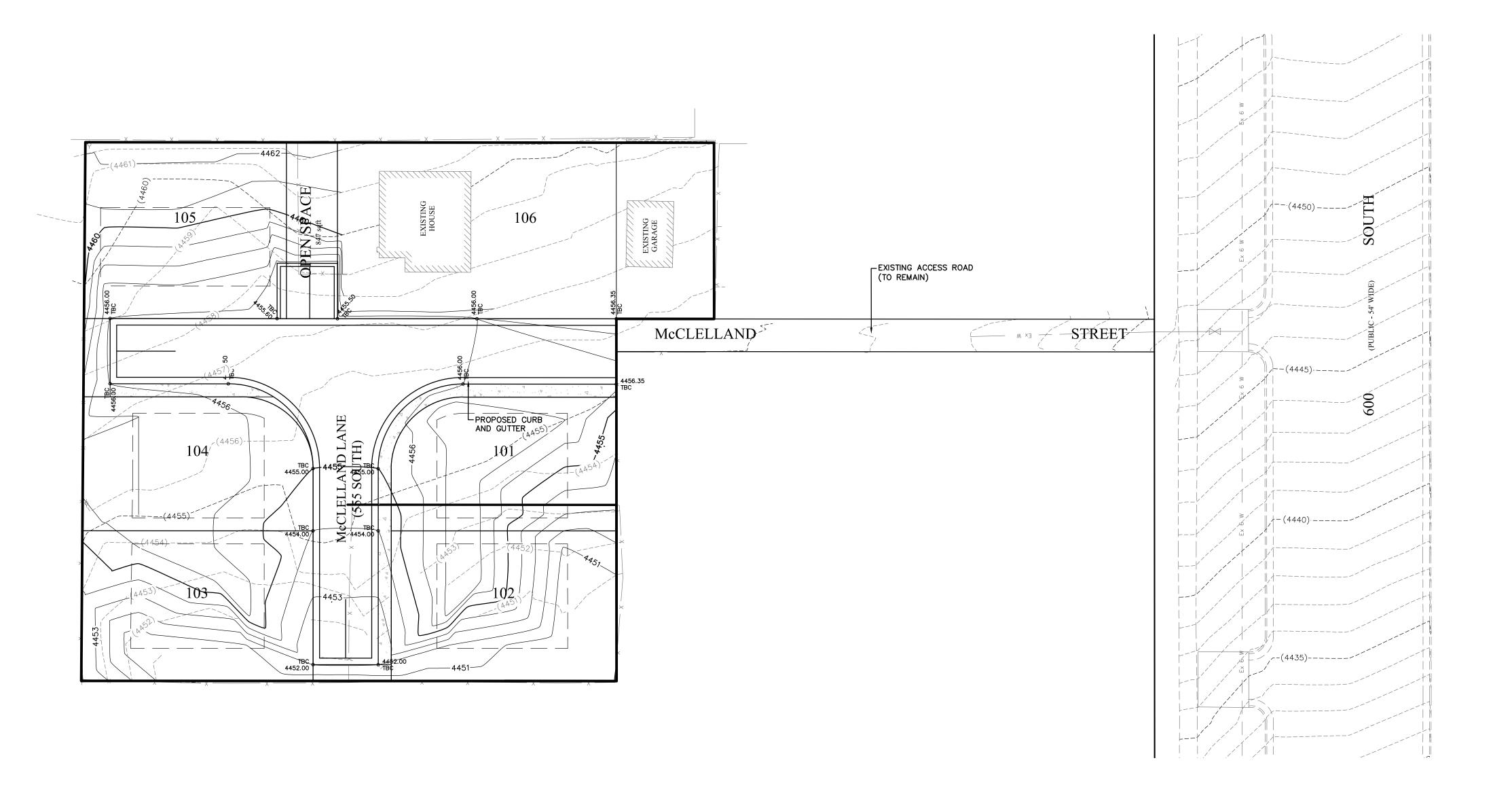
Vertical data (contour lines and\or spot elevations, etc.) shown hereon is based on the NAVD88 'foot equivalent' elevation of 4299.19 published by the Salt Lake County Surveyor on a brass cap ring & lid monument at the intersection of 700 East & 600 South.

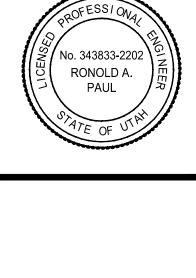
# **BENCHMARK**

BRASS CAP AND LID MONUMENT AT THE INTERSECTION OF 700 EAST AND 600 SOUTH PUBLISHED BY THE SALT LAKE COUNTY SURVEYOR ELEV: 4299.19

# GRADING / STORM DRAINAGE NOTES

- 1. ALL STORM DRAINAGE FOR THIS SITE IS TO BE RETAINED ON SITE IN SMALL LANDSCAPED RETENTION PONDS LOCATED ON THE LOTS.
- 2. GRADING SHOWN ON THIS PLAN IS PRELIMINARY. ACTUAL GRADING WILL BE COMPLETED AT FINAL.
- 3. SEE STORM DRAIN CALCULATIONS FOR ADDITIONAL INFORMATION.





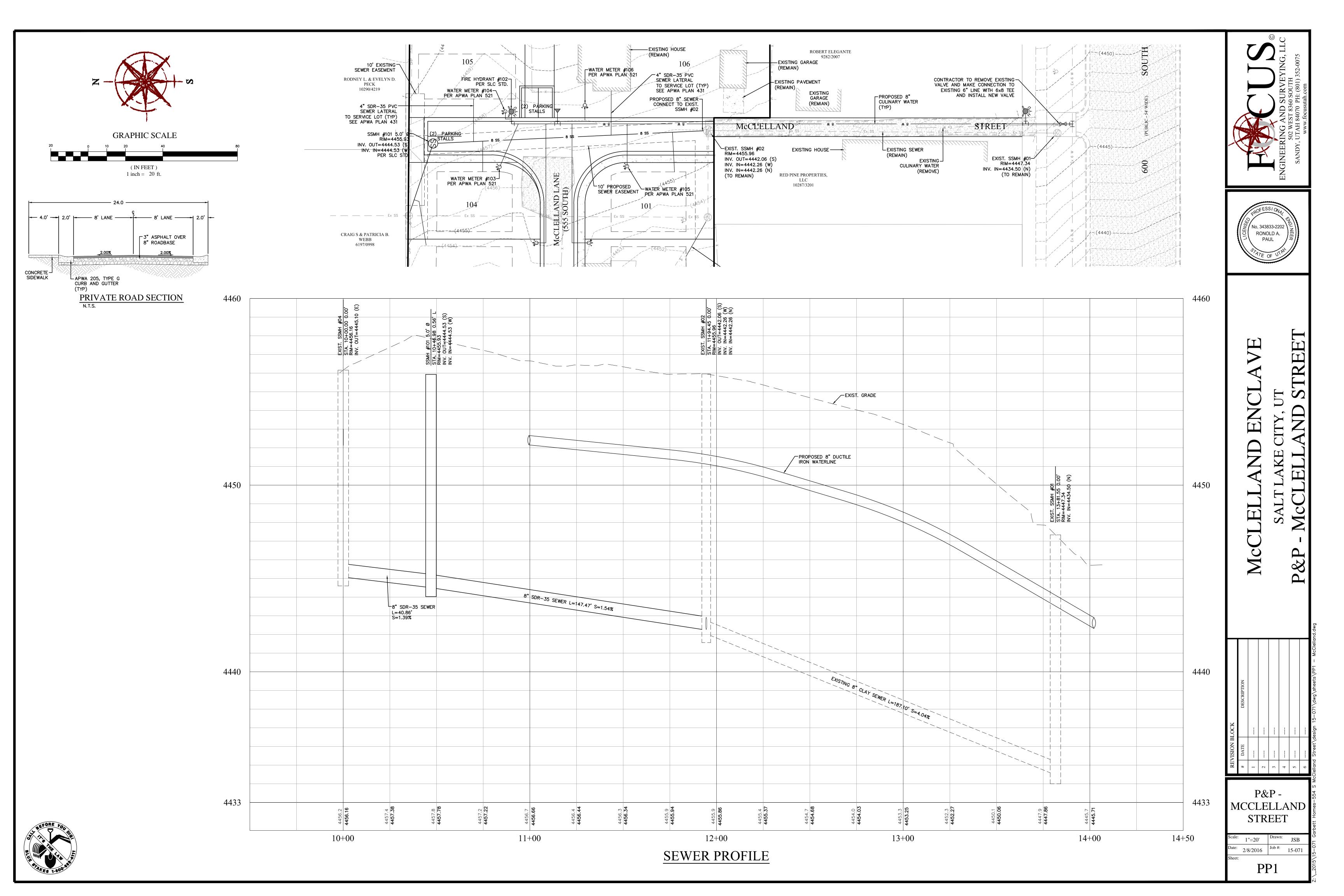
McCLELLAND ENCLAN
SALT LAKE CITY, UT

DLUCA	DESCRIPTION						
JOCK			-				
KEVISION BLUCK	DATE			-			
KE	#	1	2	3	4	5	9

GRADING PLAN

Cale: 1"=20' Drawn: JSB
Pate: 2/8/2016 Job #: 15-071
heet: C3







PLAN 'A' PLAN 'C' PLAN 'B'













PLAN 'A'



PLAN 'B'



PLAN 'C'











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The proposed project will have an access onto 600 South via McClelland Street (1040 East). McClelland Street (1040 East) is a ten-foot-wide lane that currently provides access to five homes, one of which has been vacant for several years. As part of the proposed project, three of the existing homes will be removed (including the vacant home) and six new homes will be built. Hales Engineering used ITE *Trip Generation (9<sup>th</sup> Edition, 2012)* to calculate the number of trips that would be generated by the homes on McClelland Street (8 single-family homes) after the proposed project is completed. As shown in Table 1, the proposed development will generate 104 trips on an average weekday, 16 trips during the morning peak hour, and 12 trips during the evening peak hour.

Maril de Ball			neration					
Weekday Daily	Number of	Unit	Trip			Trips	Trips	Total Daily
Land Use <sup>1</sup>	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Trips
Single-Family Detached Housing (210)	8	Dwelling Units	104	50%	50%	52	52	104
Project Total Daily Trips						52	52	104
A.M. Peak Hour	Number of	Unit	Trip			Trips	Trips	Total a.m.
Land Use <sup>1</sup>	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Trips
Single-Family Detached Housing (210)	8	Dwelling Units	16	25%	75%	4	12	16
Project Total a.m. Peak Hour Trips						4	12	16
P.M. Peak Hour	Number of	Unit	Trip	%	%	Trips	Trips	Total p.m.
Land Use <sup>1</sup>	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Trips
Single-Family Detached Housing (210)	8	Dwelling Units	12	63%	37%	8	4	12
Project Total p.m. Peak Hour Trips						8	4	12
Saturday Daily	Number of	Unit	Trip	%	%	Trips	Trips	Total Sat. Dail
Land Use <sup>1</sup>	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Trips
Single-Family Detached Housing (210)	8	Dwelling Units	98	50%	50%	49	49	98
Project Total Saturday Trips						49	49	98
Saturday Peak Hour	Number of	Unit	Trip	%	%	Trips	Trips	Total Sat Pk H
Land Use <sup>1</sup>	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Trips
Single-Family Detached Housing (210)	8	Dwelling Units	16	54%	46%	9	7	16
Project Total Saturday Peak Hour Trips						9	7	16

## Conclusions

As shown in Table 1, during the busiest hour of an average weekday day (a.m. peak hour) there will be 16 total trips (4 entering and 12 exiting) on McClelland Street. Even though these trips will be spread out over one hour, it is expected that there will be instances where vehicles traveling in opposite directions will need to pass each other. Despite the limited width of McClelland Street (10 feet), it is the opinion of Hales Engineering that these situations will be manageable due to the relatively low number of trips expected on this roadway. The capacity of a 10-foot drive is well above the 16 peak hour trips that are anticipated for this project. Because this situation has existed for many years and was acceptable, we believe that with a few additional homes, it would still be an acceptable condition.



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If you have any questions regarding this trip generation study performed by Hales Engineering, please feel free to contact us.



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# **APPENDIX**