

### *Description of Proposed Use*

The proposed development is part of a larger contingency of parcels totaling more than 40 acres owned by the Scott and Annette Turville Family Trust.

The proposed development encompasses roughly seven acres upon which is proposed three single family residential lots and a private cul-de-sac. These seven acres are currently zoned FR-2 / Foothill Estates Residential.

The proposed single-family residential lots, as well as the private road and cul-de-sac will be maintained in perpetuity by a homeowner's association yet to be formed. Please see an attached exhibit for an infrastructure maintenance plan and estimates, including capital improvements estimates.

An adjoining area consisting of more than two acres zoned FR-2 and almost ten acres zoned OS are planned to be sold to Utah Open Lands in partnership with Salt Lake City Public Lands for conservation, trails preservation, and trailhead development.

A plan has not been finalized for the more than 20 additional acres owned by the Scott and Annette Turville Family Trust, which are contiguous to the proposed development and contiguous to the land to be sold to Utah Open Lands and Salt Lake City Public Lands.

## ***Planned Development Information***

*Demonstrate how your project meets the purpose and at least one objective of a planned development as stated in 21A.55.010 of the planned development ordinance.*

### ***Meets Purpose and Objectives of Planned Development***

This project has been conceived with the goal of both preserving substantial land for recreation, conservation, and trailhead development, as well as providing for a well-designed residential development. By clustering the residential development in its own area west of the main trailhead area and south of the current Bonneville Shoreline Trail the plan accomplished an efficient use of land and minimizes the residential impact on the foothill landscape and trail use.

Additionally, this project has been redesigned from past proposals to preserve substantial open space and natural lands, as well as to optimize access to those lands. This fulfills **Objective A** found in **21A.55.010** of the Planned Development Ordinance. This proposed development is configured in such a way that will preserve existing trail systems but disentangle them from adjacent residential use and ensure in perpetuity that those trails are accessible to the public while also being properly improved and maintained by public entities. This will also leave much of the natural beauty of this particular foothill area undisturbed for conservation and preservation purposes.

### ***Master Plan: Implements Adopted Master Plan***

Additionally, Objective F of 21A.55.010 of the Planned Development Ordinance calls for projects that, *“implement portions of an adopted Master Plan in instances where the Master Plan provides specific guidance on the character of the immediate vicinity of the proposal.”*

The East Bench Master Plan (2017, p. 108) calls for the city to “Negotiate property acquisition or easements with private property owners along the eastern City boundary to complete the trail in the foothill open space area.” This project is in perfect harmony with the completion and preservation of the Bonneville Shoreline Trail in perpetuity. Additionally, the same plan calls for “connections to trails that penetrate the eastern foothills.” This project and adjacent land accommodate and enable improved access to popular trails such as Jack’s Peak. Additionally, this ensures a vital connection to the newly constructed Bonneville Shoreline Trail connection to Parley’s Trail.

This proposal also accommodates and enables the implementation of the Arcadia Heights Plan (1998) calling for a foothill access point and a recommended park site adjacent to the proposed development.

Finally, the East Bench Master Plan Conditions Report (2014, p. 130) reiterates that the city should accommodate properties with development potential or acquire these properties for public open space. This proposed development meets and fulfills both

objectives by developing a portion into residential use where high development potential exists, while also conveying other properties to the city for use by the public as open space. The same report (p. 131) reiterates that this specific subject property should be prioritized as the first preference location for a foothill park. The current proposal enables planning for such a public use to move forward on public lands.

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### *Meets Purpose of Zoning*

The three proposed lots and the proposed road are all situated on land that is zoned FR-2 / Foothill Estates Residential. Each lot is roughly two acres in size, exceeding the minimum lot size requirement of 21,780 square feet.

The Salt Lake City Zoning Code states that the “purpose of the FR-2/21,780 Foothills Residential District is to promote environmentally sensitive and visually compatible development of lots not less than twenty one thousand seven hundred eighty (21,780) square feet in size, suitable for foothills locations as indicated in the applicable community Master Plan. The district is intended to minimize flooding, erosion, and other environmental hazards; to protect the natural scenic character of foothill areas by limiting development; to promote the safety and well being of present and future residents of foothill areas; to protect wildlife habitat; and to ensure the efficient expenditure of public funds.”

The lots in the proposed development are positioned south and lie downhill from the current Bonneville Shoreline Trail. This Trail will be relocated slightly to the north to accommodate construction of the proposed cul-de-sac. By positioning the lots on the downhill slope from the trail and from the proposed road, future homes built on these lots will mitigate any potential visual impacts to those recreating in surrounding lands.

Additionally, all the proposed lots avoid intrusion into sensitive and irreplaceable tree groves on the property. This layout fulfills the zoning purpose of FR-2 to “promote environmentally sensitive and visually compatible development.”

*Exhibits enclosed*

1820 S Lakeline Dr.  
Salt Lake City, UT

**TOTAL AREA UNDER OWNERSHIP**

Approx. 40 acres

**IMPACTED TRAILS**

Bonneville Shoreline Trail  
Jack's Peak  
Other connecting trails

**ZONING**

FR-2 / Foothill Residential  
and  
OS / Open Space



# SALT LAKE CITY ZONING

## **FR-2 / 21,780 FOOTHILLS RESIDENTIAL DISTRICT**

The purpose of the FR-2/21,780 Foothills Residential District is to promote environmentally sensitive and visually compatible development of lots not less than twenty one thousand seven hundred eighty (21,780) square feet in size, suitable for foothills locations as indicated in the applicable community Master Plan. The district is intended to minimize flooding, erosion, and other environmental hazards; to protect the natural scenic character of foothill areas by limiting development; to promote the safety and well being of present and future residents of foothill areas; to protect wildlife habitat; and to ensure the efficient expenditure of public funds.

## **OS / OPEN SPACE**

The purpose of the OS Open Space District is to preserve and enhance public and private open space, natural areas, and improved park and recreational areas. These areas serve to provide opportunities for active and passive outdoor recreation; provide contrasts to the built environment; preserve scenic qualities; protect sensitive or fragile environmental areas such as wetlands, steep slopes, ridge lines, meadows, and stream corridors; preserve the capacity and water quality of the stormwater drainage system; encourage sustainability, conservation and renewable energy and provide pedestrian and bicycle transportation connections. This district is appropriate in areas of the City where the applicable master plans support this type of land use.



# TRAILS

Newly constructed BST from Parley's Canyon to Lakeline Dr. stops at Lakeline Dr., adjacent to subject property

Existing BST runs through subject property for about 0.3 miles connecting to "H" Rock

Trails connecting to Jack's Peak trail and others also run through the property and adjacent to it



# ORIGINAL SUBDIVISION PLAN

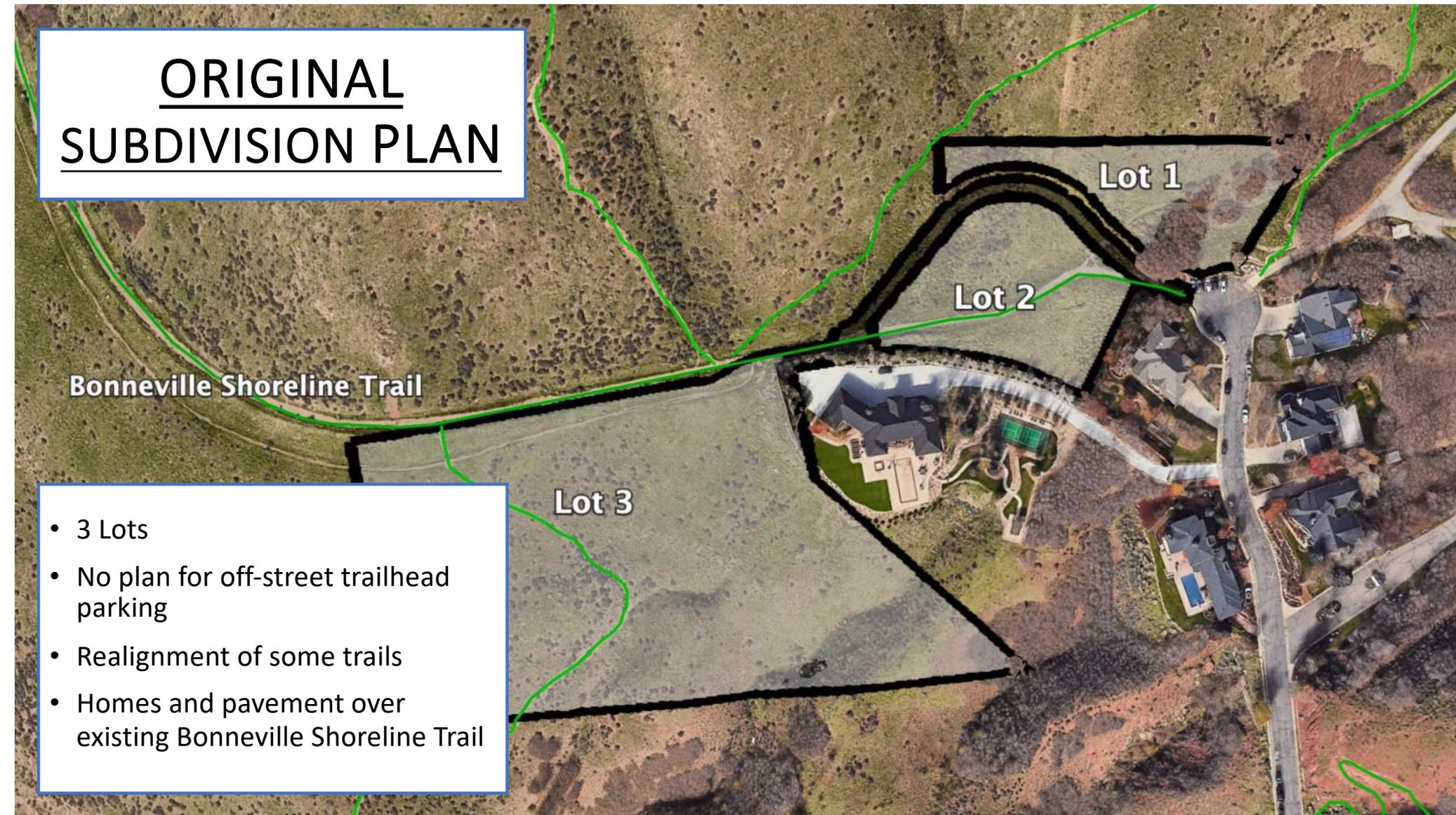
Bonneville Shoreline Trail

Lot 1

Lot 2

Lot 3

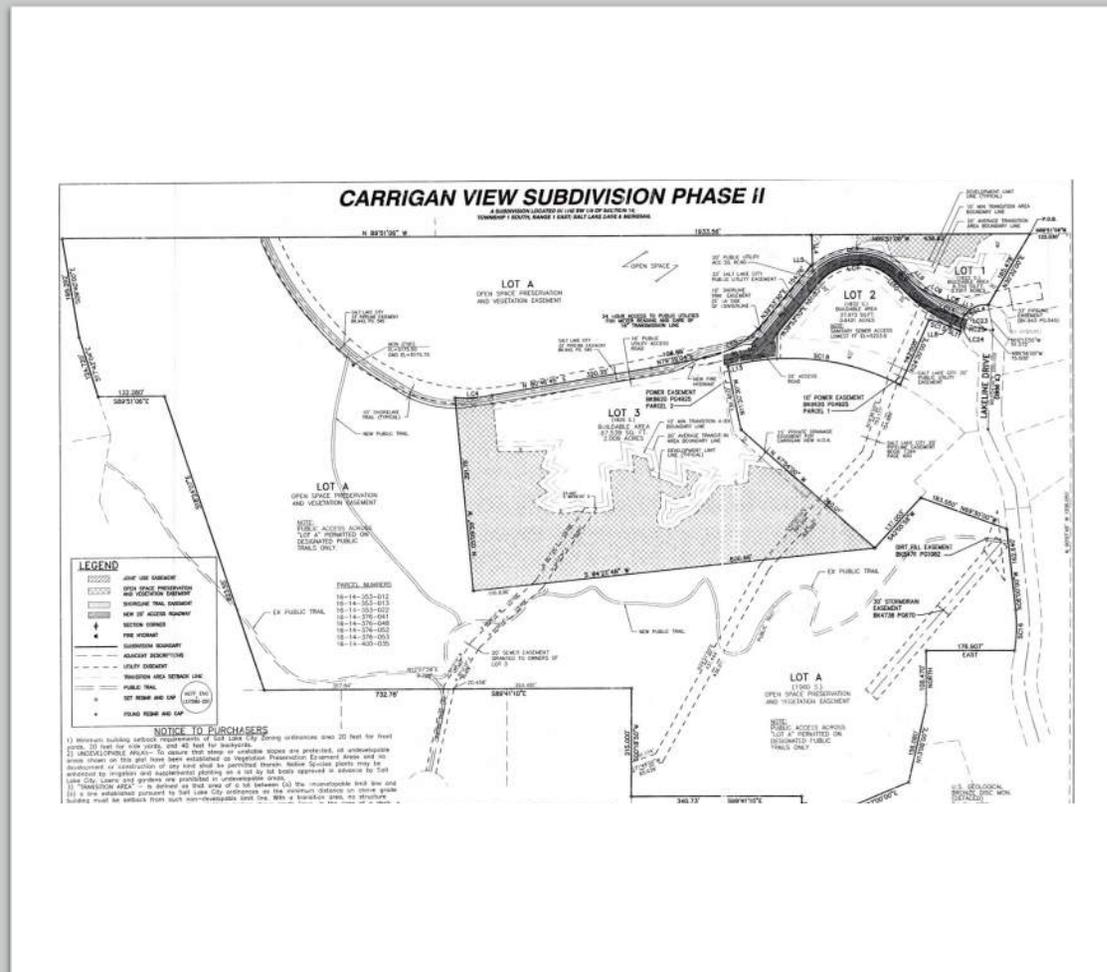
- 3 Lots
- No plan for off-street trailhead parking
- Realignment of some trails
- Homes and pavement over existing Bonneville Shoreline Trail



# ORIGINAL SUBDIVISION PLAN

## 3 Lots

- Lot 1 - 0.76 acre
- Lot 2 - 1.0 acre
- Lot 3 – 5.6 acres



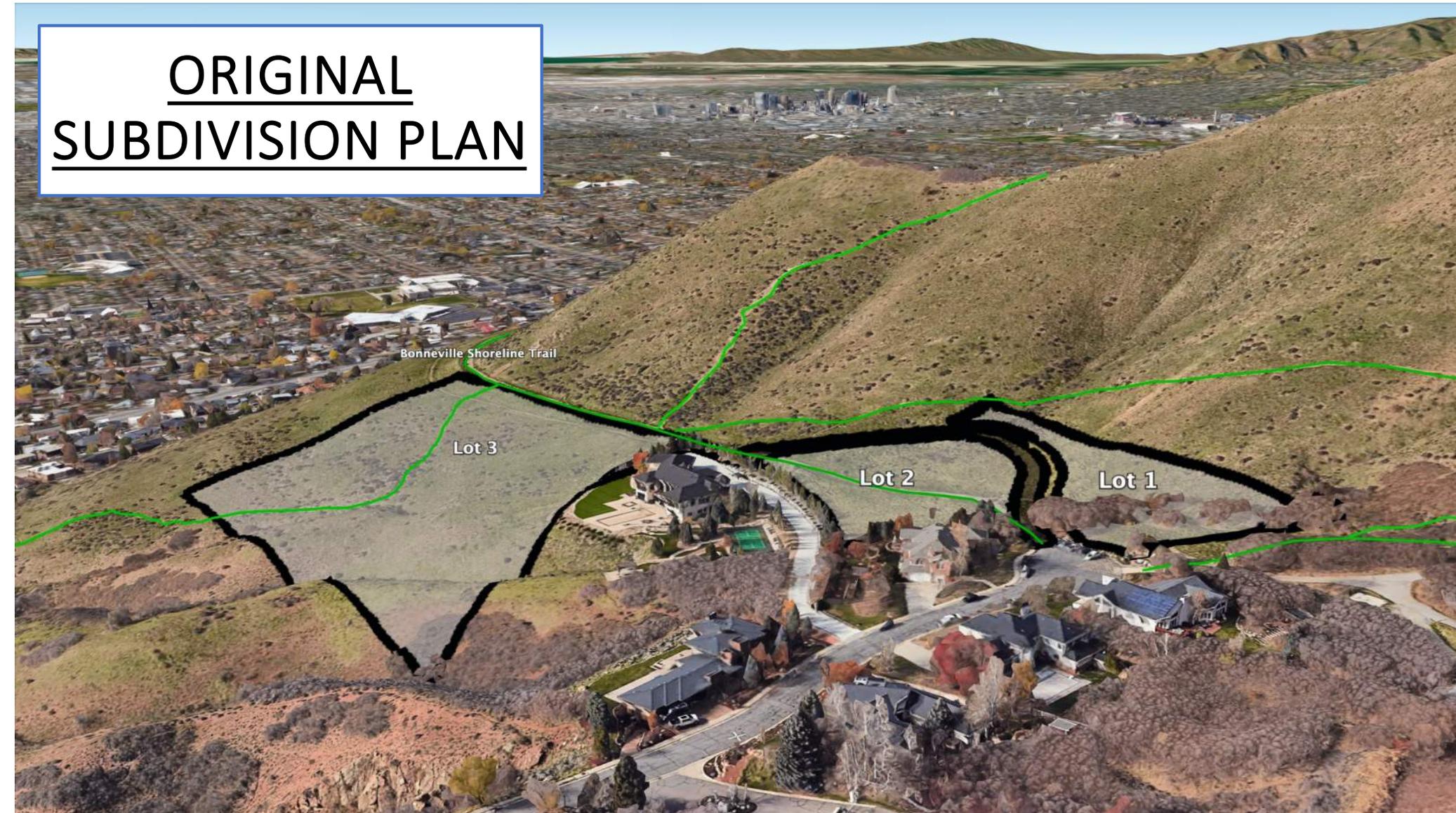
# ORIGINAL SUBDIVISION PLAN

Bonneville Shoreline Trail

Lot 3

Lot 2

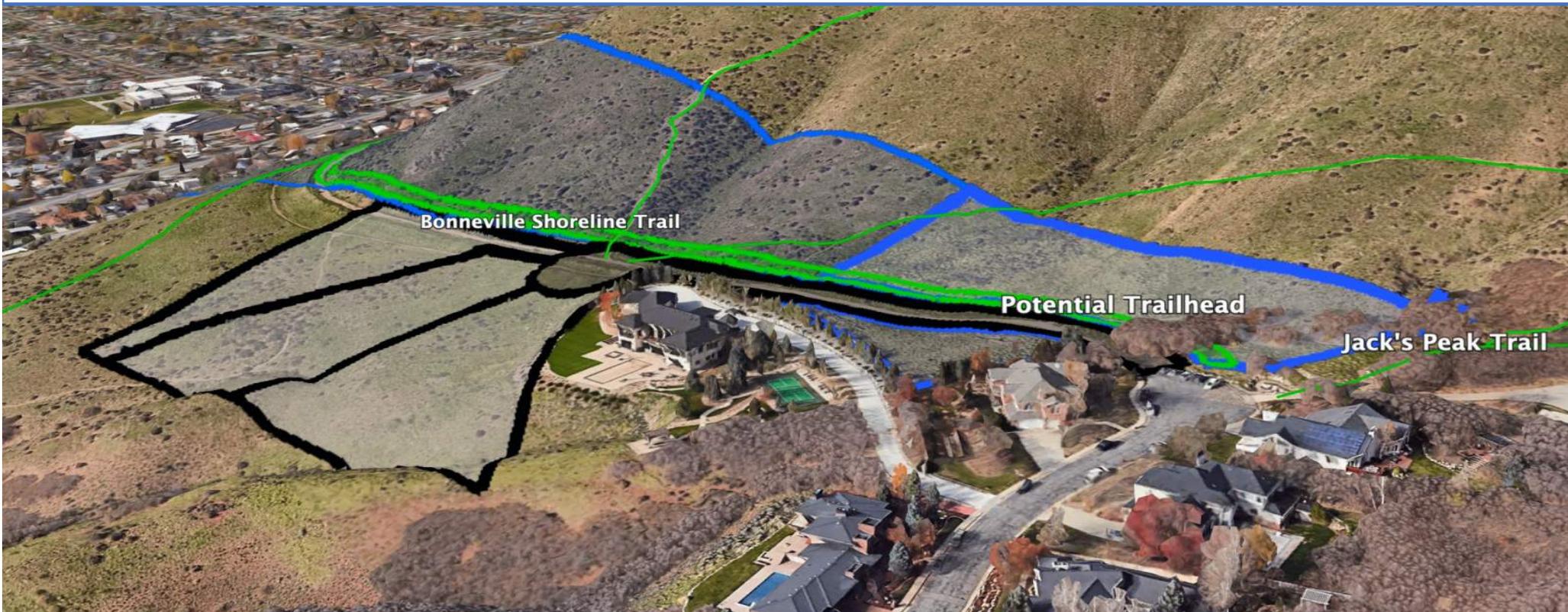
Lot 1

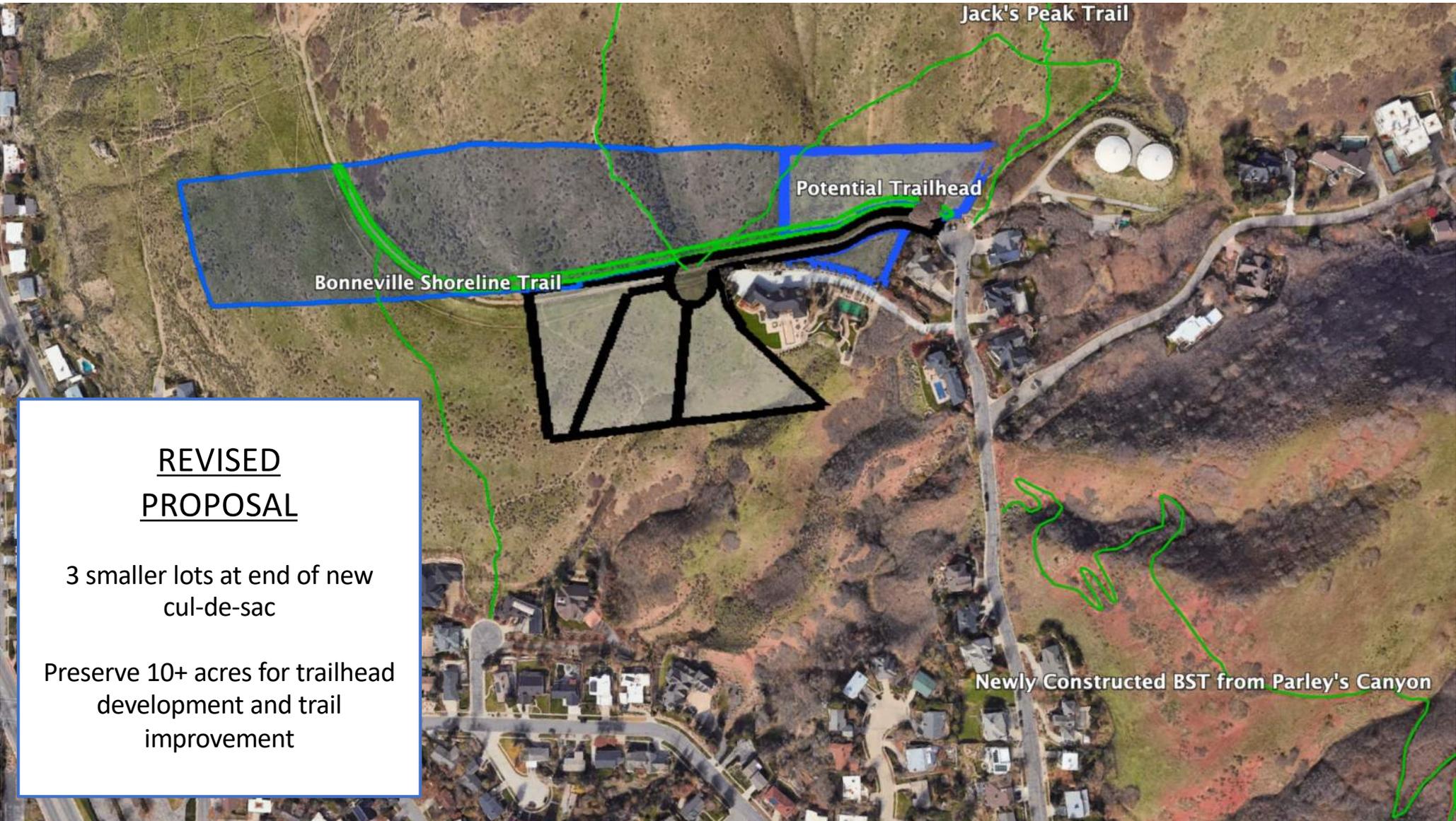


# REVISED PROPOSAL

Set aside blue parcel (10+ acres) for conservation and trailhead development to mitigate street parking congestion and provide off-street parking trailhead

Develop three smaller lots at the end of new cul-de-sac south of BST in new planned development

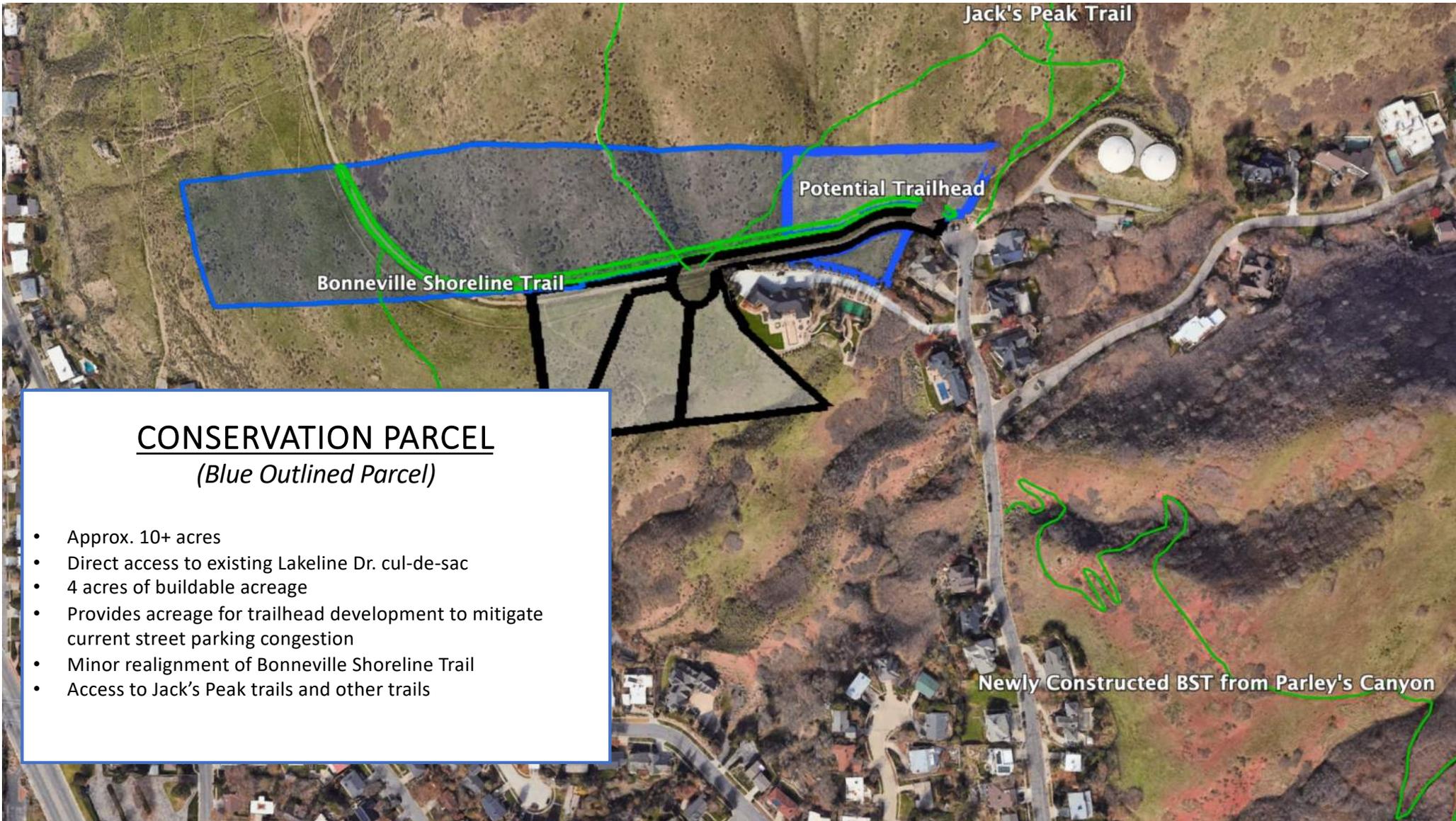




**REVISED**  
**PROPOSAL**

3 smaller lots at end of new  
cul-de-sac

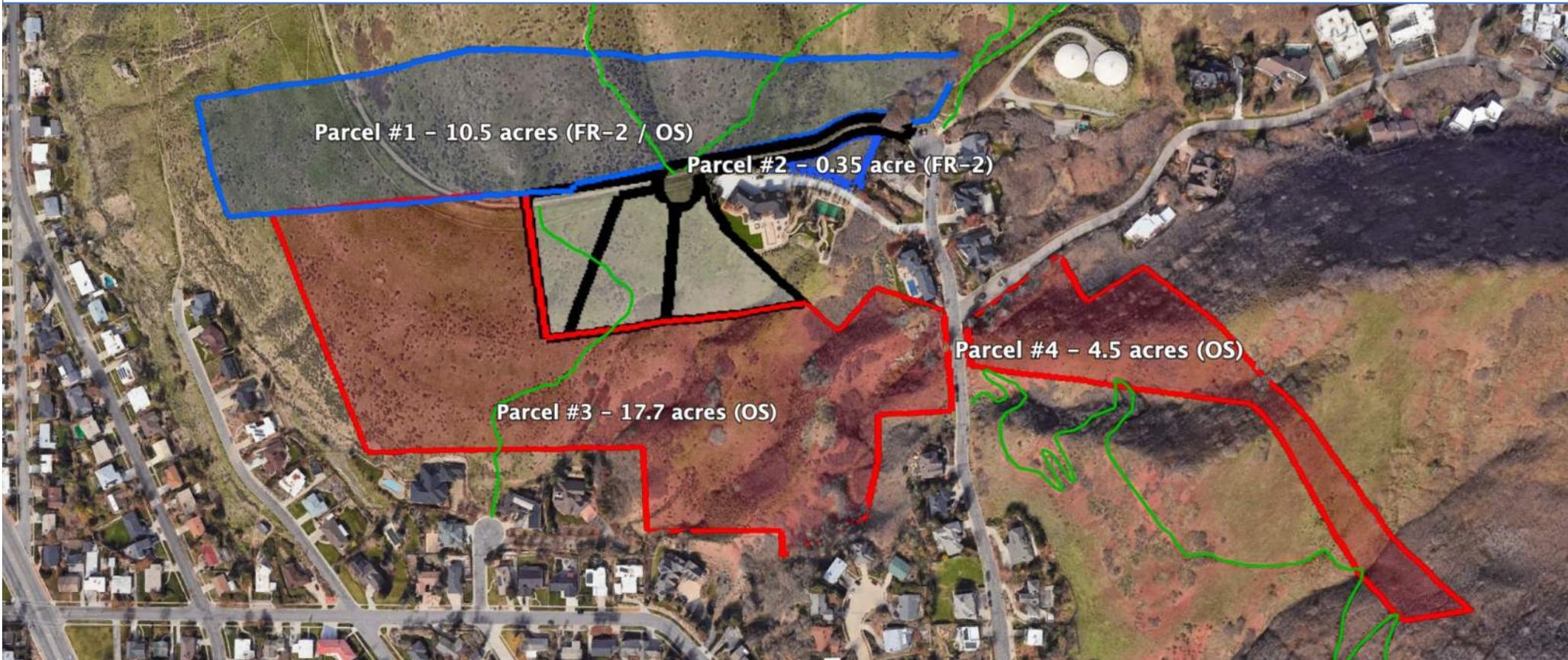
Preserve 10+ acres for trailhead  
development and trail  
improvement



**CONSERVATION PARCEL**  
*(Blue Outlined Parcel)*

- Approx. 10+ acres
- Direct access to existing Lakeline Dr. cul-de-sac
- 4 acres of buildable acreage
- Provides acreage for trailhead development to mitigate current street parking congestion
- Minor realignment of Bonneville Shoreline Trail
- Access to Jack's Peak trails and other trails

# ADDITIONAL CONSERVATION PARCELS



Note: Additional Open Space parcels (red) to be appraised at open space values



# CARRIGAN VIEW PHASE II P.U.D.

1820 SOUTH LAKELINE DRIVE  
SALT LAKE CITY, UTAH

## INDEX OF DRAWINGS

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C-300	UTILITY PLAN
C-500	EROSION CONTROL PLAN
PP-1	PLAN AND PROFILE CARRIGAN RIM COURT
PP-2	PLAN AND PROFILE CARRIGAN RIM COURT

**FOR REVIEW  
NOT FOR CONSTRUCTION**

DATE PRINTED  
September 28, 2023



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Sandy, UT 84070  
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**LAYTON**  
Phone: 801.547.1100

**TOOELE**  
Phone: 435.843.3590

**CEDAR CITY**  
Phone: 435.865.1453

**RICHFIELD**  
Phone: 435.896.2983

[WWW.ENSGNENG.COM](http://WWW.ENSGNENG.COM)

FOR:  
TURVILLE  
1820 SOUTH LAKELINE DRIVE  
SALT LAKE CITY, UT

CONTACT:  
TURVILLE  
PHONE:

**CARRIGAN VIEW  
PHASE II P.U.D.  
1820 SOUTH LAKELINE DRIVE  
SALT LAKE CITY, UTAH**

### NOTICE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH REGULATIONS OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF UTAH DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS. THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

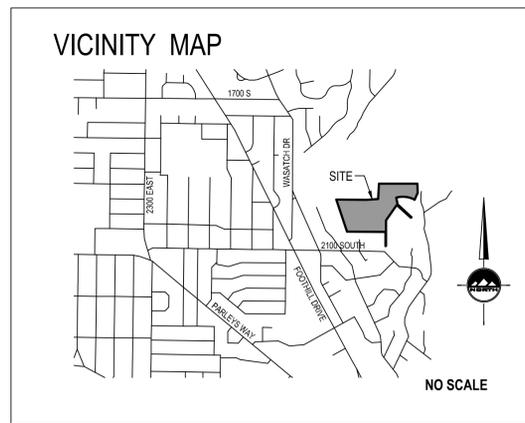
CONTRACTOR FURTHER AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE CIVIL 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 ENGINEER.

### NOTICE TO DEVELOPER/ CONTRACTOR

UNAPPROVED DRAWINGS REPRESENT WORK IN PROGRESS, ARE SUBJECT TO CHANGE, AND DO NOT CONSTITUTE A FINISHED ENGINEERING PRODUCT. ANY WORK UNDERTAKEN BY DEVELOPER OR CONTRACTOR BEFORE PLANS ARE APPROVED IS UNDERTAKEN AT THE SOLE RISK OF THE DEVELOPER, INCLUDING BUT NOT LIMITED TO BIDS, ESTIMATION, FINANCING, BONDING, SITE CLEARING, GRADING, INFRASTRUCTURE CONSTRUCTION, ETC.

### UTILITY DISCLAIMER

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND / OR ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



### GENERAL NOTES

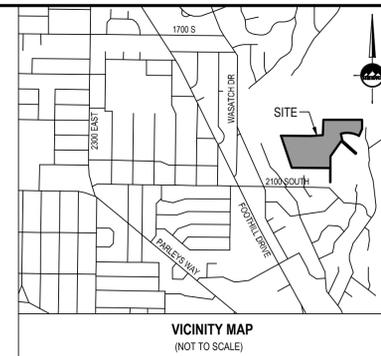
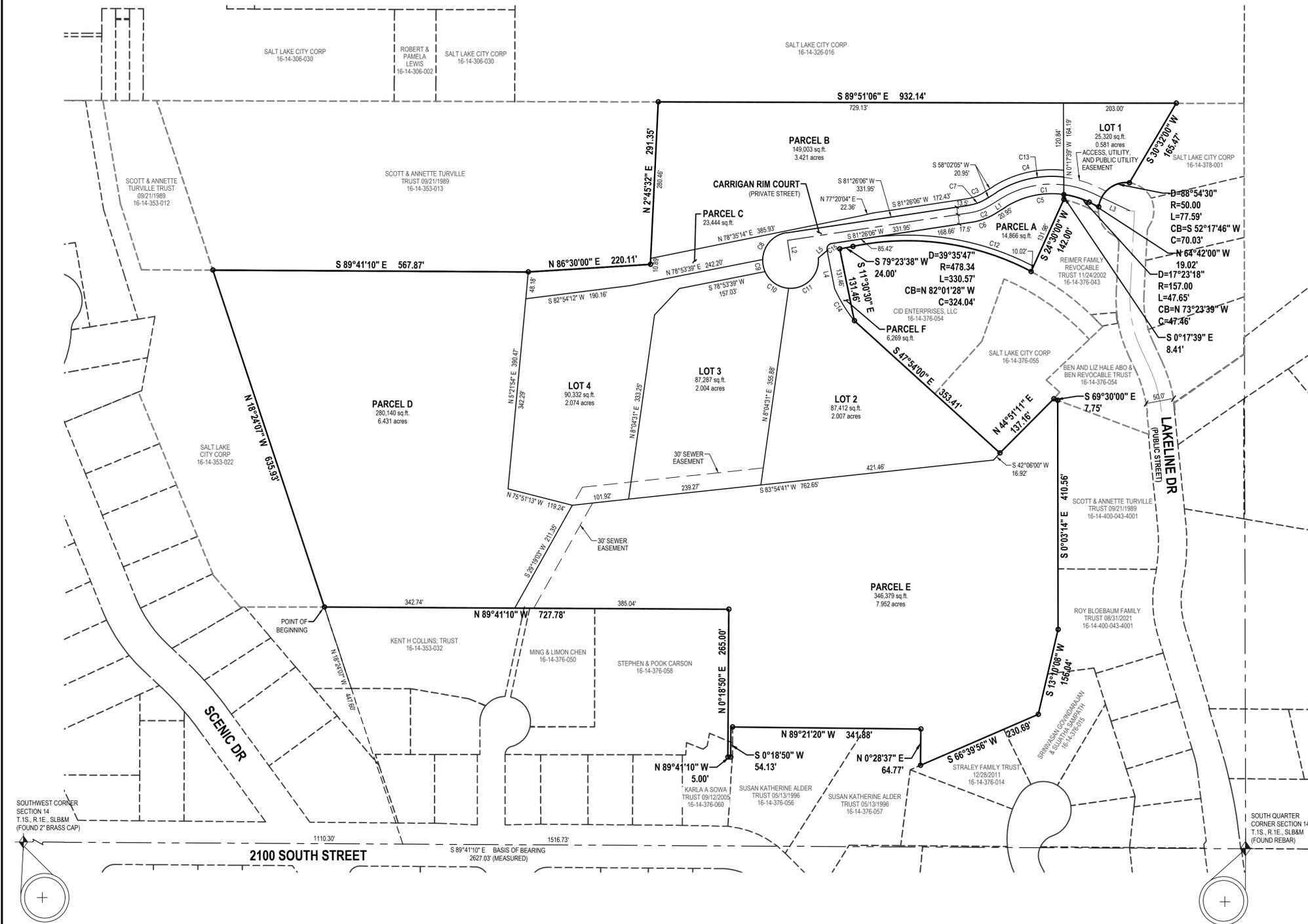
- ALL WORK SHALL CONFORM TO SALT LAKE CITY STANDARDS & SPECIFICATIONS.
- CALL BLUE STAKES AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
- BENCHMARK ELEVATION = SOUTHWEST CORNER SECTION 14, T1N, R1E SALT LAKE BASE & MERIDIAN ELEV. = 4783.86.

PROJECT NUMBER: 9806  
PROJECT MANAGER: RQE

PRINT DATE: 2023-09-28  
DESIGNED BY: KFW

# CARRIGAN VIEW PHASE II P.U.D.

LOCATED IN THE SOUTHWEST QUARTER OF SECTION 14,  
TOWNSHIP 1 SOUTH, RANGE 1 EAST, SALT LAKE BASE & MERIDIAN  
SALT LAKE CITY, SALT LAKE COUNTY, UTAH



**LEGEND**

- EXISTING STREET MONUMENT
- PROPOSED STREET MONUMENT
- SECTION CORNER
- BOUNDARY LINE
- SECTION LINE
- MONUMENT LINE
- EASEMENT LINE
- ADJACENT BOUNDARY LINE

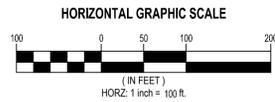
THIS PLAT CONFORMS TO ALL T.A. CLASS B SURVEY STANDARDS WITH THE MAXIMUM ALLOWABLE ERROR OF 1:15,000.

**CURVE TABLE**

CURVE	RADIUS	LENGTH	DELTA	BEARING	CHORD
C1	174.50'	174.41'	57°15'55"	S86°40'02"W	167.24'
C2	98.00'	40.02'	23°24'02"	N89°44'06"E	39.75'
C3	72.50'	29.61'	23°24'02"	N89°44'06"E	29.40'
C4	200.00'	133.01'	38°06'16"	S77°05'13"W	130.57'
C5	157.00'	109.27'	39°52'38"	S77°58'24"W	107.08'
C6	115.50'	47.17'	23°24'02"	N89°44'06"E	46.84'
C7	84.50'	34.51'	23°24'02"	N89°44'06"E	34.27'
C8	50.00'	68.41'	79°32'09"	S41°40'02"W	63.97'
C9	50.00'	22.18'	25°25'06"	S10°48'36"E	22.00'
C10	50.00'	54.56'	62°31'08"	S84°46'42"E	51.89'
C11	50.00'	86.26'	98°51'08"	N44°32'11"E	75.96'
C12	488.34'	265.80'	31°11'08"	N77°53'11"W	262.53'
C13	188.00'	126.38'	38°31'01"	S77°17'35"W	124.02'
C14	269.42'	68.50'	14°34'00"	S31°26'58"E	68.31'
C15	10.00'	16.91'	96°52'33"	S32°59'50"W	14.96'

**LINE TABLE**

LINE	BEARING	LENGTH
L1	S58°02'05"W	20.95'
L2	S8°33'54"E	36.50'
L3	N64°42'00"W	72.84'
L4	N10°59'32"W	68.84'
L5	N50°02'53"E	21.10'



**SURVEYOR'S CERTIFICATE**  
I, PATRICK M. HARRIS, do hereby certify that I am a Licensed Professional Land Surveyor in the State of Utah and that I hold Certificate No. 268882 in accordance with Title 58, Chapter 22, of the Professional Engineers and Land Surveyor's Act. I further certify that by authority of the Owners, I have completed a survey of the property described on this subdivision plat in accordance with Section 17-25-17 and have verified all measurements, that the reference monuments shown on this plat are located as indicated, and are sufficient to accurately establish the lateral boundaries of the herein described tract of real property, and has been drawn correctly to the designated scale and is a true and correct representation of the herein described lands included in said subdivision, based upon data compiled from records of the Salt Lake County Records Office. I further certify that all lots meet frontage width and area requirements of the applicable zoning ordinances.

**BOUNDARY DESCRIPTION**  
Beginning South 89°41'10" East 1110.30 feet and North 18°24'07" West 447.60 feet from the Southwest Corner of Section 14, Township 1 South, Range 1 East, Salt Lake Base and Meridian, and running  
thence North 18°24'07" West 635.93 feet;  
thence South 89°41'10" East 567.87 feet;  
thence North 86°30'00" East 220.11 feet;  
thence North 02°45'32" East 291.35 feet;  
thence South 89°51'06" East 932.14 feet;  
thence South 30°32'00" West 165.47 feet;  
thence Southwesterly 77.59 feet along the arc of a 50.00 foot radius curve to the left (center bears South 06°45'01" West and the chord bears South 52°17'46" West 70.03 feet with a central angle of 88°54'30");  
thence North 64°42'00" West 19.02 feet;  
thence Northwesterly 47.65 feet along the arc of a 157.00 foot radius curve to the left (center bears South 25°18'00" West and the chord bears North 73°23'39" West 47.46 feet with a central angle of 17°23'18");  
thence South 00°17'39" East 8.41 feet;  
thence South 24°30'00" West 142.00 feet;  
thence Northwesterly 330.57 feet along the arc of a 478.34 foot radius curve to the left (center bears South 27°46'25" West and the chord bears North 62°01'28" West 324.04 feet with a central angle of 39°35'47");  
thence South 79°23'38" West 24.00 feet;  
thence South 00°03'14" East 410.56 feet;  
thence South 47°54'00" East 353.41 feet;  
thence North 44°51'11" East 137.16 feet;  
thence South 69°30'00" East 7.75 feet;  
thence South 00°03'14" East 410.56 feet;  
thence South 13°10'08" West 156.04 feet;  
thence North 66°39'56" West 230.69 feet;  
thence North 00°28'37" East 64.77 feet;  
thence North 89°21'20" West 341.88 feet;  
thence South 00°18'50" West 54.13 feet;  
thence North 89°41'10" West 5.00 feet;  
thence North 00°18'50" East 265.00 feet;  
thence North 89°41'10" West 727.78 feet to the point of beginning.



DATE \_\_\_\_\_ PATRICK M. HARRIS  
P.L.S. 268882

**UTILITY DEDICATION**  
By execution of this plat, the Owner(s) shown below does hereby grant and convey to the Salt Lake City and other public utility companies, a permanent easement and right of way in and to those areas reflected on the map and defined as "PRIVATE STREET", and for construction and maintenance of approved public utilities and appurtenances together with right of access thereto.

**OWNER'S DEDICATION AND CONSENT TO RECORD**  
\_\_\_\_\_, the owners of the described tract of land to be hereafter known as

**CARRIGAN VIEW PHASE II P.U.D.**  
hereby consents and give approval to the recording of this plat for all purposes shown herein. There are no streets, easements or other property reflected on this plat to be dedicated to the public.  
In witness whereof I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_ A.D., 20\_\_\_\_  
(COMPANY NAME)  
By: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**NOTARY ACKNOWLEDGMENT**  
STATE OF UTAH \_\_\_\_\_ J.S.S.  
County of SALT LAKE \_\_\_\_\_  
On this day \_\_\_\_\_ of \_\_\_\_\_, in the year 20\_\_\_\_, before me \_\_\_\_\_, a notary public, personally appeared \_\_\_\_\_ the \_\_\_\_\_ of \_\_\_\_\_, who proved on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to in the foregoing Owner's Dedication and Consent regarding the CARRIGAN VIEW PHASE II P.U.D., and was signed by him/her on behalf of said \_\_\_\_\_ and acknowledged that he/she/they executed the same.  
Commission Number \_\_\_\_\_  
My Commission Expires \_\_\_\_\_  
Print Name: \_\_\_\_\_  
A Notary Public Commissioned in Utah

**SHEET 1 OF 1**  
PROJECT NUMBER: 9808  
MANAGER: ROE  
DRAWN BY: KFW  
CHECKED BY: PMH  
DATE: 9/28/23

**RECORD SURVEY DATA**  
ROS NO.: \$\_\_\_\_\_  
\$\_\_\_\_\_

PREPARED BY:  
**ENSIGN**  
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Fax: 801.255.4449  
WWW.ENSIGNENG.COM

LAYTON Phone: 801.501.1100  
TOOELE Phone: 435.843.3900  
CEDAR CITY Phone: 435.858.1643  
RICHFIELD Phone: 435.899.2900

**BOARD OF HEALTH APPROVAL**  
APPROVED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_ BY THE BOARD OF HEALTH.  
SALT LAKE COUNTY HEALTH DEPT.

**CITY PLANNING DIRECTOR**  
APPROVED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_ BY THE SALT LAKE CITY PLANNING COMMISSION.  
SALT LAKE CITY PLANNING DIRECTOR DATE

**CITY ENGINEER DIVISION**  
I HEREBY CERTIFY THAT I HAVE HAD THIS PLAT EXAMINED BY THIS OFFICE AND IT IS CORRECT IN ACCORDANCE WITH INFORMATION ON FILE.  
CITY ENGINEER DATE CITY SURVEYOR DATE

**CITY PUBLIC UTILITIES DEPARTMENT**  
APPROVED AS TO SANITARY SEWER AND WATER UTILITY DETAIL THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_  
SALT LAKE CITY PUBLIC UTILITIES DIRECTOR

**CITY ATTORNEY**  
APPROVED AS TO FORM THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_ BY THE SALT LAKE CITY ATTORNEY.  
SALT LAKE CITY ATTORNEY

**CITY APPROVAL**  
PRESENTED TO SALT LAKE CITY THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_ AND IS HEREBY APPROVED.  
SALT LAKE CITY MAYOR ATTEST: CITY RECORDER

**RECORDED #**  
STATE OF UTAH, COUNTY OF SALT LAKE, RECORDED AND FILED AT THE REQUEST OF: \_\_\_\_\_  
DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ BOOK: \_\_\_\_\_ PAGE: \_\_\_\_\_  
FEET \_\_\_\_\_ SALT LAKE COUNTY RECORDER

**DEVELOPER & OWNER**  
SCOTT & ANNETTE TURVILLE  
FAMILY TRUST 09/21/198  
1820 SOUTH LAKELINE DRIVE  
SALT LAKE CITY, UT

**ZONING ADMINISTRATOR**  
APPROVED AS TO FORM THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_ BY THE ZONING ADMINISTRATOR.  
ZONING ADMINISTRATOR

**CARRIGAN VIEW PHASE II P.U.D.**  
LOCATED IN THE SOUTHWEST QUARTER OF SECTION 14,  
TOWNSHIP 1 SOUTH, RANGE 1 EAST, SALT LAKE BASE & MERIDIAN  
SALT LAKE COUNTY, SALT LAKE COUNTY, UTAH

**SALT LAKE CITY PUBLIC UTILITIES GENERAL NOTES**

**1. COMPLIANCE:**  
ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS AND THE MOST RECENT EDITIONS OF THE FOLLOWING: THE INTERNATIONAL PLUMBING CODE, UTAH DRINKING WATER REGULATIONS, APWA MANUAL OF STANDARD PLANS AND SPECIFICATIONS, AND SLC PUBLIC UTILITIES MODIFICATIONS TO APWA STANDARD PLANS AND APPROVED MATERIALS AND SLC PUBLIC UTILITIES APWA SPECIFICATIONS MODIFICATIONS. THE CONTRACTOR IS REQUIRED TO ADHERE TO ALL OF THE ABOVE-MENTIONED DOCUMENTS UNLESS OTHERWISE NOTED AND APPROVED IN WRITING BY THE SALT LAKE CITY DIRECTOR OF PUBLIC UTILITIES.

**2. COORDINATION:**  
THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL APPROPRIATE GOVERNMENT AND PRIVATE ENTITIES ASSOCIATED WITH THE PROJECT. THE FOLLOWING MUST BE CONTACTED 48-HOURS PRIOR TO CONSTRUCTION AS APPLICABLE TO THE PROJECT:

- PUBLIC UTILITIES:  
 BACKFLOW PREVENTION - 483-6795  
 DEVELOPMENT REVIEW ENGINEERING - 483-6781  
 INSPECTIONS, PERMITS, CONTRACTS & AGREEMENTS - 483-6727  
 PRETREATMENT - 799-4002  
 STORM WATER - 483-6751

- SLC DEPARTMENTS:  
 ENGINEERING - PUBLIC WAY PERMITS AND ISSUES - 535-6248  
 ENGINEERING - SUBDIVISIONS - 535-6159  
 FIRE DEPARTMENT - 535-6636  
 PERMITS AND LICENSING (BLDG SERVICES) - 535-7752  
 PLANNING AND ZONING - 535-7700  
 TRANSPORTATION - 535-6630

- ALL OTHER POTENTIALLY IMPACTED GOVERNING AGENCIES OR ENTITIES
- ALL WATER USERS INVOLVED IN WATER MAIN SHUTDOWNS
- APPLICABLE SEWER, WATER AND DRAINAGE DISTRICTS
- BLUESTAKES LOCATING SERVICES - 532-5000
- COUNTY FIRE DEPARTMENT - 743-7231
- COUNTY FLOOD CONTROL - 468-2779
- COUNTY HEALTH DEPARTMENT - 385-468-3913
- COUNTY PUBLIC WAY PERMITS - 468-2241
- HOLLADAY CITY - 272-9450
- SALT LAKE COUNTY HIGHWAY DEPARTMENT - 468-3705 OR 468-2156
- THE UTAH TRANSIT AUTHORITY FOR RE-ROUTING SERVICE - 262-5626
- UNION PACIFIC RAILROAD CO., SUPERINTENDENTS OFFICE - 593-3405
- UTAH DEPARTMENT OF TRANSPORTATION, REGION #2 - 975-4800
- UTAH STATE ENGINEER - 538-7240

**3. SCHEDULE**  
PRIOR TO CONSTRUCTION THE CONTRACTOR WILL PROVIDE, AND WILL UPDATE AS CHANGES OCCUR, A CONSTRUCTION SCHEDULE IN ACCORDANCE WITH THE SPECIFICATIONS AND SALT LAKE CITY ENGINEERING OR SALT LAKE COUNTY REGULATIONS AS APPLICABLE FOR WORKING WITHIN THE PUBLIC WAY.

**4. PERMITS, FEES AND AGREEMENTS**  
CONTRACTOR MUST OBTAIN ALL THE NECESSARY PERMITS AND AGREEMENTS AND PAY ALL APPLICABLE FEES PRIOR TO ANY CONSTRUCTION ACTIVITIES. CONTACT SALT LAKE CITY ENGINEERING (535-6248) FOR PERMITS AND INSPECTIONS REQUIRED FOR ANY WORK CONDUCTED WITHIN SALT LAKE CITY'S PUBLIC RIGHT-OF-WAY. APPLICABLE UTILITY PERMITS MAY INCLUDE MAINLINE EXTENSION AGREEMENTS AND SERVICE CONNECTION PERMITS. ALL UTILITY WORK MUST BE BONDED. ALL CONTRACTORS MUST BE LICENSED TO WORK ON CITY UTILITY MAINS.

CONSTRUCTION SITES MUST BE IN COMPLIANCE WITH THE UTAH POLLUTION DISCHARGE ELIMINATION SYSTEM (UPDES) STORM WATER PERMIT FOR CONSTRUCTION ACTIVITIES (538-6396). A COPY OF THE PERMITS STORM WATER POLLUTION PREVENTION PLAN MUST BE SUBMITTED TO PUBLIC UTILITIES FOR REVIEW AND APPROVAL. ADDITIONAL WATER QUALITY AND EROSION CONTROL MEASURES MAY BE REQUIRED. THE CONTRACTOR MUST ALSO COMPLY WITH SALT LAKE CITY'S CLEAN WHEEL ORDINANCE.

**5. ASPHALT AND SOIL TESTING**  
THE CONTRACTOR IS TO PROVIDE MARSHALL AND PROCTOR TEST DATA 24-HOURS PRIOR TO USE. CONTRACTOR IS TO PROVIDE COMPACTION AND DENSITY TESTING AS REQUIRED BY SALT LAKE CITY ENGINEERING, UDOT, SALT LAKE COUNTY OR OTHER GOVERNING ENTITY. TRENCH BACKFILL MATERIAL AND COMPACTION TESTS ARE TO BE TAKEN PER APWA STANDARD SPECIFICATIONS, SECTION 330320. BACKFILLING OR FILLING OF TRENCHES, OR AS REQUIRED BY THE SLC PROJECT ENGINEER IF NATIVE MATERIALS ARE USED. **NO NATIVE MATERIALS ARE ALLOWED WITHIN THE PIPE ZONE.** THE MAXIMUM LIFTS FOR BACKFILLING EXCAVATIONS IS 8-INCHES. ALL MATERIALS AND COMPACTION TESTING IS TO BE PERFORMED BY A LAB RECOGNIZED AND ACCEPTED BY SALT LAKE COUNTY PUBLIC WORKS AND/OR SALT LAKE CITY ENGINEERING.

**6. TRAFFIC CONTROL AND HAUL ROUTES**  
TRAFFIC CONTROL MUST CONFORM TO THE MOST CURRENT EDITION OF SALT LAKE CITY TRAFFIC CONTROL AND TRANSPORTATION MUST APPROVE ALL PROJECT HAUL ROUTES (535-7129). THE CONTRACTOR MUST ALSO CONFORM TO UDOT, SALT LAKE COUNTY OR OTHER APPLICABLE GOVERNING ENTITIES REQUIREMENTS FOR TRAFFIC CONTROL.

**7. SURVEY CONTROL**  
CONTRACTOR MUST PROVIDE A REGISTERED LAND SURVEYOR OR PERSONS UNDER SUPERVISION OF A REGISTERED LAND SURVEYOR TO SET STAKES FOR ALIGNMENT AND GRADE OF EACH MAIN AND/OR FACILITY AS APPROVED. THE STAKES SHALL BE MARKED WITH THE HORIZONTAL LOCATION (STATION) AND VERTICAL LOCATION (GRADE) WITH CUTS AND/OR FILLS TO THE GRADE OF THE MAIN AND/OR FACILITY AS APPROVED. IN ADDITION, THE CONTRACTOR AND/OR SURVEYOR SHALL PROVIDE TO SALT LAKE CITY PUBLIC UTILITIES CUT SHEETS FILLED OUT COMPLETELY AND CLEARLY SHOWING THE PERTINENT GRADES, ELEVATIONS AND CUT/FILLS ASSOCIATED WITH THE FIELD STAKING OF THE MAIN AND/OR FACILITY. THE CUT SHEET FORM IS AVAILABLE AT THE CONTRACTS AND AGREEMENTS OFFICE AT PUBLIC UTILITIES. ALL MAINS AND LATERALS NOT MEETING MINIMUM GRADE REQUIREMENTS AS SPECIFIED BY ORDINANCE OR TO MEET THE MINIMUM REQUIRED FLOWS OR AS APPROVED MUST BE REMOVED AND RECONSTRUCTED TO MEET DESIGN GRADE. THE CONTRACTOR SHALL PROTECT ALL STAKES AND MARKERS UNTIL PUBLIC UTILITY SURVEYORS COMPLETE FINAL MEASUREMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING, MAINTAINING, OR RESTORING ALL MONUMENTS AND REFERENCE MARKS WITHIN THE PROJECT SITE. CONTACT THE COUNTY SURVEYOR (468-2028) FOR MONUMENT LOCATIONS AND CONSTRUCTION REQUIREMENTS. ALL ELEVATIONS SHALL BE REFERENCED TO SALT LAKE CITY DATUM UNLESS NOTED OTHERWISE ON THE PLANS.

**8. ASPHALT GUARANTEE**  
THE CONTRACTOR SHALL REMOVE, DISPOSE OF, FURNISH AND PLACE PERMANENT ASPHALT PER SALT LAKE CITY ENGINEERING, UDOT, COUNTY, OR OTHER GOVERNMENT STANDARDS AS APPLICABLE TO THE PROJECT. THE CONTRACTOR SHALL GUARANTEE THE ASPHALT RESTORATION FOR A PERIOD AS REQUIRED BY THE GOVERNING ENTITY.

**9. TEMPORARY ASPHALT**  
IF THE CONTRACTOR CHOOSES TO WORK WITHIN THE PUBLIC WAY WHEN HOT MIX ASPHALT IS NOT AVAILABLE, THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE APPROPRIATE GOVERNING ENTITY PRIOR TO INSTALLING TEMPORARY ASPHALT SURFACING MATERIAL. WITHIN SALT LAKE CITY, WHEN PERMANENT ASPHALT BECOMES AVAILABLE, THE CONTRACTOR SHALL REMOVE THE TEMPORARY ASPHALT, FURNISH AND INSTALL THE PERMANENT ASPHALT. THE CONTRACTOR SHALL GUARANTEE THE ASPHALT RESTORATION FOR A PERIOD AS REQUIRED BY THE GOVERNING ENTITY FROM THE DATE OF COMPLETION.

**10. SAFETY**  
THE CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF SAFETY OF THE PROJECT AND SHALL MEET ALL OSHA, STATE, COUNTY AND OTHER GOVERNING ENTITY REQUIREMENTS.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFORMING TO LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES, AND FOR THE PROTECTION OF WORKERS.

**11. DUST CONTROL**  
THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL ACCORDING TO THE GOVERNING ENTITY STANDARDS. USE OF HYDRANT WATER OR PUMPING FROM CITY-OWNED CANALS OR STORM DRAINAGE FACILITIES IS NOT ALLOWED FOR DUST CONTROL ACTIVITIES WITHOUT WRITTEN APPROVAL OF THE PUBLIC UTILITIES DIRECTOR.

**12. DEWATERING**  
ALL ON-SITE DEWATERING ACTIVITIES MUST BE APPROVED IN WRITING BY PUBLIC UTILITIES. PROPOSED OUTFALL LOCATIONS AND ESTIMATED FLOW VOLUME CALCULATIONS MUST BE SUBMITTED TO PUBLIC UTILITIES FOR REVIEW AND APPROVAL. ADEQUATE MEASURES MUST BE TAKEN TO REMOVE ALL SEDIMENT PRIOR TO DISCHARGE. PUBLIC UTILITIES MAY REQUIRE ADDITIONAL MEASURES FOR SEDIMENT CONTROL AND REMOVAL.

**13. PROJECT LIMITS**  
THE CONTRACTOR IS REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE APPROVED PROJECT LIMITS. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLE AND EQUIPMENT STAGING, MATERIAL STORAGE AND LIMITS OF TRENCH EXCAVATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION AND/OR EASEMENTS FROM THE APPROPRIATE GOVERNING ENTITY AND/OR INDIVIDUAL PROPERTY OWNER(S) FOR WORK OR STAGING OUTSIDE OF THE PROJECT LIMITS.

**14. WATER, FIRE, SANITARY SEWER AND STORM DRAINAGE UTILITIES**  
**A. INSPECTIONS**  
IT IS THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE ANY WATER, SEWER, BACKFLOW AND DRAINAGE INSPECTION 48-HOURS IN ADVANCE TO WHEN NEEDED. CONTACT 483-6727 TO SCHEDULE INSPECTIONS.

**B. DAMAGE TO EXISTING UTILITIES -**  
THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE, CAUSED BY ANY CONDITION INCLUDING SETTLEMENT, TO EXISTING UTILITIES FROM WORK PERFORMED AT OR NEAR EXISTING UTILITIES. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ALL EXISTING PUBLIC AND PRIVATE ROADWAY AND UTILITY FACILITIES. DAMAGE TO EXISTING FACILITIES CAUSED BY THE CONTRACTOR, MUST BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE, TO THE SATISFACTION OF THE OWNER OF SAID FACILITIES.

**C. UTILITY LOCATIONS -**  
CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AND AVOIDING ALL UTILITIES AND SERVICE LATERALS, AND FOR REPAIRING ALL DAMAGE THAT OCCURS TO THE UTILITIES DUE TO THE CONTRACTOR'S ACTIVITIES. CONTRACTOR IS TO VERIFY LOCATION, DEPTH, SIZE, MATERIAL AND OUTSIDE DIAMETERS OF UTILITIES IN THE FIELD BY POTHOLES A MINIMUM OF 300-FEET AHEAD OF SCHEDULED CONSTRUCTION IN ORDER TO IDENTIFY POTENTIAL CONFLICTS AND PROBLEMS WITH FUTURE CONSTRUCTION ACTIVITIES. EXISTING UTILITY INFORMATION OBTAINED FROM SLC PUBLIC UTILITIES' MAPS MUST BE ASSUMED AS APPROXIMATE AND REQUIRING FIELD VERIFICATION. CONTACT BLUE STAKES OR APPROPRIATE OWNER FOR COMMUNICATION LINE LOCATIONS.

**D. UTILITY RELOCATIONS -**  
FOR UTILITY CONFLICTS REQUIRING MAINLINE RELOCATIONS, THE CONTRACTOR MUST NOTIFY THE APPLICABLE UTILITY COMPANY OR USER A MINIMUM OF 2-WEEKS IN ADVANCE. A ONE-WEEK MINIMUM NOTIFICATION IS REQUIRED FOR CONFLICTS REQUIRING THE RELOCATION OF SERVICE LATERALS. ALL RELOCATIONS ARE SUBJECT TO APPROVAL FROM THE APPLICABLE UTILITY COMPANY AND/OR USER.

**E. FIELD CHANGES -**  
NO ROADWAY, UTILITY ALIGNMENT OR GRADE CHANGES ARE ALLOWED FROM THE APPROVED CONSTRUCTION PLANS/DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE SLC PUBLIC UTILITIES DIRECTOR. CHANGES TO HYDRANT FIRE LINES MUST BE REVIEWED AND APPROVED BY THE SALT LAKE CITY OR SALT LAKE COUNTY FIRE DEPARTMENT (AS APPLICABLE TO THE PROJECT) AND PUBLIC UTILITIES.

**F. PUBLIC NOTICE TO PROJECTS IN THE PUBLIC WAY -**  
FOR APPROVED PROJECTS THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AND DISTRIBUTE WRITTEN NOTICE TO ALL RESIDENTS LOCATED WITHIN THE PROJECT AREA AT LEAST 72-HOURS PRIOR TO CONSTRUCTION. WORK TO BE CONDUCTED WITHIN COMMERCIAL OR INDUSTRIAL AREAS MAY REQUIRE A LONGER NOTIFICATION PERIOD AND ADDITIONAL CONTRACTOR COORDINATION WITH PROPERTY OWNERS. THE WRITTEN NOTICE IS TO BE APPROVED BY THE SLC PUBLIC UTILITIES PROJECT ENGINEER.

**G. PUBLIC NOTICE FOR WATER MAIN SHUT DOWNS -**  
THROUGH THE SLC PUBLIC UTILITIES INSPECTOR AND WITH THE PUBLIC UTILITIES PROJECT ENGINEER APPROVAL, SLC PUBLIC UTILITIES MUST BE CONTACTED AND APPROVE ALL WATER MAIN SHUTDOWNS. ONCE APPROVED THE CONTRACTOR MUST NOTIFY ALL EFFECTED USERS BY WRITTEN NOTICE A MINIMUM OF 48-HOURS (RESIDENTIAL) AND 72-HOURS (COMMERCIAL/INDUSTRIAL) PRIOR TO THE WATER MAIN SHUT DOWN. PUBLIC UTILITIES MAY REQUIRE LONGER NOTICE PERIODS.

**H. WATER AND SEWER SEPARATION -**  
IN ACCORDANCE WITH UTAH'S DEPARTMENT OF HEALTH REGULATIONS, A MINIMUM TEN-FOOT HORIZONTAL AND 1.5-FOOT VERTICAL (WITH WATER ON TOP) SEPARATION IS REQUIRED. IF THESE CONDITIONS CANNOT BE MET, STATE AND SLC PUBLIC UTILITIES APPROVAL IS REQUIRED. ADDITIONAL CONSTRUCTION MEASURES WILL BE REQUIRED FOR THESE CONDITIONS.

**I. SALVAGE -**  
ALL METERS MUST BE RETURNED TO PUBLIC UTILITIES, AND AT PUBLIC UTILITIES REQUEST ALL SALVAGED PIPE AND/OR FITTINGS MUST BE RETURNED TO SLC PUBLIC UTILITIES (483-6727) LOCATED AT 1530 SOUTH WEST TEMPLE.

**J. SEWER MAIN AND LATERAL CONSTRUCTION REQUIREMENTS -**  
SLC PUBLIC UTILITIES MUST APPROVE ALL SEWER CONNECTIONS. ALL SEWER LATERALS 6-INCHES AND SMALLER MUST BE WYE INTO THE MAIN PER SLC PUBLIC UTILITIES REQUIREMENTS. ALL 6-INCH AND LARGER SEWER CONNECTIONS MUST BE PETITIONED FOR AT PUBLIC UTILITIES (483-6762) AND CONNECTED AT A MANHOLE. **INSIDE DROPS IN MANHOLES ARE NOT ALLOWED.** A MINIMUM 4-FOOT BURY DEPTH IS REQUIRED ON ALL SEWER MAINS AND LATERALS. CONTRACTOR SHALL INSTALL INVERT COVERS IN ALL SEWER MANHOLES WITHIN THE PROJECT AREA.

CONTRACTOR TO PROVIDE AIR PRESSURE TESTING OF SEWER MAINS IN ACCORDANCE WITH PIPE MANUFACTURERS RECOMMENDATIONS AND SALT LAKE CITY PUBLIC UTILITIES REQUIREMENTS. ALL PVC SEWER MAIN AND LATERAL TESTING SHALL BE IN ACCORDANCE WITH UN-BELL UN-B-6-98 RECOMMENDED PRACTICE FOR AIR TESTING OF INSTALLED SEWER PIPE. CONTRACTOR SHALL PROVIDE SEWER LATERAL WATER TESTING AS REQUIRED BY THE SALT LAKE CITY PUBLIC UTILITIES PROJECT ENGINEER OR INSPECTOR. A MINIMUM OF 9-FEET OF HEAD PRESSURE IS REQUIRED AS MEASURED VERTICALLY FROM THE HIGH POINT OF THE PIPELINE AND AT OTHER LOCATIONS ALONG THE PIPELINE AS DETERMINED BY THE SLC PUBLIC UTILITIES PROJECT ENGINEER OR INSPECTOR. TESTING TIME WILL BE NO LESS THAN AS SPECIFIED FOR THE AIR TEST DURATION IN TABLE I ON PAGE 12 OF UN-B-6-98. ALL PIPES SUBJECT TO WATER TESTING SHALL BE FULLY VISIBLE TO THE INSPECTOR DURING TESTING. TESTING MUST BE PERFORMED IN THE PRESENCE OF A SLC PUBLIC UTILITIES REPRESENTATIVE. ALL VISIBLE LEAKAGE MUST BE REPAIRED TO THE SATISFACTION OF THE SLC PUBLIC UTILITIES ENGINEER OR INSPECTOR.

**K. WATER AND FIRE MAIN AND SERVICE CONSTRUCTION REQUIREMENTS -**  
SLC PUBLIC UTILITIES MUST APPROVE ALL FIRE AND WATER SERVICE CONNECTIONS. A MINIMUM 3-FOOT SEPARATION IS REQUIRED BETWEEN ALL WATER AND FIRE SERVICE TAPS INTO THE MAIN. ALL CONNECTIONS MUST BE MADE MEETING SLC PUBLIC UTILITIES REQUIREMENTS. A 5-FOOT MINIMUM BURY DEPTH (FINAL GRADE TO TOP OF PIPE) IS REQUIRED ON ALL WATER/FIRE LINES UNLESS OTHERWISE APPROVED BY PUBLIC UTILITIES. WATER LINE THRUST BLOCK AND RESTRAINTS ARE AS PER SLC APPROVED DETAIL DRAWINGS AND SPECIFICATIONS. ALL EXPOSED NUTS AND BOLTS WILL BE COATED WITH CHEVRON FM1 GREASE PLUS MINIMUM 8 MIL THICKNESS PLASTIC. PROVIDE STAINLESS STEEL NUTS, BOLTS AND WASHERS FOR HIGH GROUNDWATER/SATURATED CONDITIONS AT FLANGE FITTINGS, ETC.

ALL WATERLINES INSTALLATIONS AND TESTING TO BE IN ACCORDANCE WITH AWWA SECTIONS C600, C691, C651, C286, C200, C900, C303 APWA MANUAL M11 AND ALL OTHER APPLICABLE AWWA, UPWS, ASTM AND ANSI SPECIFICATIONS RELEVANT TO THE INSTALLATION AND COMPLETION OF THE PROJECT. AMENDMENT TO SECTION C600 SECTION 4.1.1; DOCUMENT TO READ MINIMUM TEST PRESSURE SHALL NOT BE LESS THAN 200 P.S.I. GAUGED TO A HIGH POINT OF THE PIPELINE BEING TESTED. ALL MATERIALS USED FOR WATERWORKS PROJECTS TO BE RATED FOR 150 P.S.I. MINIMUM OPERATING PRESSURE.

CONTRACTOR IS TO INSTALL WATER SERVICE LINES, METER YOKES AND/OR ASSEMBLIES AND METER BOXES WITH LIDS LOCATED AS APPROVED ON THE PLANS PER APPLICABLE PUBLIC UTILITIES DETAIL DRAWINGS. METER BOXES ARE TO BE PLACED IN THE PARK STRIPS PERPENDICULAR TO THE WATERMAIN SERVICE TAP CONNECTION. ALL WATER METERS, CATCH BASINS, CLEANOUT BOXES, MANHOLES, DOUBLE CHECK VALVE DETECTOR ASSEMBLIES, REDUCED PRESSURE DETECTOR ASSEMBLIES AND BACKFLOW PREVENTION DEVICES MUST BE LOCATED OUTSIDE OF ALL APPROACHES, DRIVEWAYS, PEDESTRIAN WALKWAYS AND OTHER TRAVELED WAYS UNLESS OTHERWISE APPROVED ON PLANS.

BACKFLOW PREVENTORS ARE REQUIRED ON ALL IRRIGATION AND FIRE SPRINKLING TAPS PER PUBLIC UTILITIES AND SLC FIRE DEPARTMENT REQUIREMENTS. CONTRACTORS SHALL INSTALL BACKFLOW PREVENTION DEVICES ON FIRE SPRINKLER CONNECTIONS. DOUBLE CHECK VALVE ASSEMBLIES SHALL BE INSTALLED ON CLASS 1, 2 AND 3 SYSTEMS. REDUCED PRESSURE PRINCIPLE VALVES SHALL BE INSTALLED ON CLASS 4 SYSTEMS. ALL FIRE SPRINKLING BACKFLOW ASSEMBLIES SHALL CONFORM TO ASSE STANDARD 1048, 1013, 1047 AND 1015. THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM BACKFLOW PREVENTION TESTS PER SALT LAKE CITY STANDARDS AND SUBMIT RESULTS TO PUBLIC UTILITIES. ALL TESTS MUST BE PERFORMED AND SUBMITTED TO PUBLIC UTILITIES WITHIN 10 DAYS OF INSTALLATION OR WATER TURN-ON. BACKFLOW TEST FORMS ARE AVAILABLE AT PUBLIC UTILITIES' CONTRACTS AND AGREEMENTS OFFICE.

**L. GENERAL WATER, SEWER AND STORM DRAIN REQUIREMENTS -**  
ALL WATER, FIRE AND SEWER SERVICES STUBBED TO A PROPERTY MUST BE USED OR WATER AND FIRE SERVICES MUST BE KILLED AT THE MAIN AND SEWER LATERALS CAPPED AT PROPERTY LINE PER PUBLIC UTILITIES REQUIREMENT. ALLOWABLE SERVICES TO BE KEPT WILL BE AS DETERMINED BY THE PUBLIC UTILITIES PROJECT ENGINEER. GUTTER AND FIRE SERVICE KILLS AND SEWER LATERAL CAPS ARE TO BE KILLED AND CAPPED AS DETERMINED AND VISUALLY VERIFIED BY THE ON-SITE PUBLIC UTILITIES INSPECTOR.

ALL MANHOLES, HYDRANTS, VALVES, CLEAN-OUT BOXES, CATCH BASINS, METERS, ETC. MUST BE RAISED OR LOWERED TO FINAL GRADE PER PUBLIC UTILITIES STANDARDS AND INSPECTOR REQUIREMENTS. CONCRETE COLLARS MUST BE CONSTRUCTED ON ALL MANHOLES, CLEANOUT BOXES, CATCH BASINS AND VALVES PER PUBLIC UTILITIES STANDARDS. ALL MANHOLE, CATCH BASIN, OR CLEANOUT BOX CONNECTIONS MUST BE MADE WITH THE PIPE CUT FLUSH WITH THE INSIDE OF THE BOX AND GROUTED OR SEALED AS REQUIRED BY THE PUBLIC UTILITIES INSPECTOR. ALL MANHOLE, CLEANOUT BOX OR CATCH BASIN DISCONNECTIONS MUST BE REPAIRED AND GROUTED AS REQUIRED BY THE ON-SITE PUBLIC UTILITIES INSPECTOR.

CONTRACTOR SHALL NOT ALLOW ANY GROUNDWATER OR DEBRIS TO ENTER THE NEW OR EXISTING PIPE DURING CONSTRUCTION. UTILITY TRENCHING, BACKFILL, AND PIPE ZONE AS PER SLC PUBLIC UTILITIES STANDARDS.

**ABBREVIATIONS**

APWA	AMERICAN PUBLIC WORKS ASSOCIATION
AR	ACCESSIBLE ROUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BOS	BOTTOM OF STEP
BVC	BEGIN VERTICAL CURVE
C	CURVE
CB	CATCH BASIN
CF	CUBIC FEET
COMM	COMMUNICATION
CONC	CONCRETE
CONT	CONTINUOUS
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
ELEC	ELECTRICAL
ELEV	ELEVATION
EOA	EDGE OF ASPHALT
EVC	END OF VERTICAL CURVE
EW	EACH WAY
EXIST	EXISTING
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FIRE HYDRANT
FL	FLOW LINE OR FLANGE
GB	GRADE BREAK
GF	GARAGE FLOOR
GV	GATE VALVE
HC	HANDICAP
HP	HIGH POINT
IRR	IRRIGATION
K	RATE OF VERTICAL CURVATURE
LD	LAND DRAIN
LF	LINEAR FEET
LP	LOW POINT
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
NG	NATURAL GROUND
NC	NOT IN CONTRACT
NUMBER	NUMBER
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OHP	OVERHEAD POWER
PC	POINT OF CURVATURE OR PRESSURE CLASS
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PRC	POINT OF REVERSE CURVATURE
PRO	PROPOSED
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
RD	ROOF DRAIN
ROW	RIGHT OF WAY
S	SLOPE
SAN SWR	SANITARY SEWER
SD	STORM DRAIN
SEC	SECONDARY
SS	SANITARY SEWER
STA	STATION
SW	SIDEWALK
SWL	SECONDARY WATER LINE
TBC	TOP BACK OF CURB
TOG	TOP OF GRATE
TOA	TOP OF ASPHALT
TOC	TOP OF CONCRETE
TOF	TOP OF FOUNDATION
TOW	TOP OF WALL
TOS	TOP OF STEP
TP	TYPICAL
VC	VERTICAL CURVE
WI	WALL INDICATOR VALVE
WL	WATER LINE

NOTE: MAY CONTAIN ABBREVIATIONS THAT ARE NOT USED IN THIS PLAN SET.

**LEGEND**

	SECTION CORNER		EXISTING EDGE OF ASPHALT
	EXISTING MONUMENT		PROPOSED EDGE OF ASPHALT
	PROPOSED MONUMENT		EXISTING STRIPING
	EXISTING REBAR AND CAP		PROPOSED STRIPING
	SET ENSIGN REBAR AND CAP		EXISTING FENCE
	EXISTING WATER METER		PROPOSED FENCE
	PROPOSED WATER METER		EXISTING FLOW LINE
	EXISTING WATER MANHOLE		PROPOSED FLOW LINE
	PROPOSED WATER MANHOLE		GRADE BREAK
	EXISTING WATER BOX		EXISTING STORM DRAIN LINE
	EXISTING WATER VALVE		PROPOSED STORM DRAIN LINE
	PROPOSED WATER VALVE		ROOF DRAIN LINE
	EXISTING FIRE HYDRANT		CATCHMENTS
	PROPOSED FIRE HYDRANT		HIGH WATER LINE
	PROPOSED FIRE DEPARTMENT CONNECTION		EXISTING SANITARY SEWER
	EXISTING SECONDARY WATER VALVE		PROPOSED SANITARY SEWER LINE
	PROPOSED SECONDARY WATER VALVE		PROPOSED SAN. SWR. SERVICE LINE
	EXISTING IRRIGATION BOX		EXISTING LAND DRAIN LINE
	EXISTING IRRIGATION VALVE		PROPOSED LAND DRAIN LINE
	PROPOSED IRRIGATION VALVE		PROPOSED LAND DRAIN SERVICE LINE
	EXISTING SANITARY SEWER MANHOLE		EXISTING CULINARY WATER LINE
	PROPOSED SANITARY SEWER MANHOLE		PROPOSED CULINARY WATER LINE
	EXISTING SANITARY CLEAN OUT		PROPOSED CULINARY WATER SERVICE LINE
	EXISTING STORM DRAIN CLEAN OUT BOX		EXISTING SECONDARY WATER LINE
	PROPOSED STORM DRAIN CLEAN OUT BOX		PROPOSED SECONDARY WATER LINE
	EXISTING STORM DRAIN INLET BOX		PROPOSED SEC. WATER SERVICE LINE
	EXISTING STORM DRAIN CATCH BASIN		EXISTING IRRIGATION LINE
	PROPOSED STORM DRAIN CATCH BASIN		PROPOSED IRRIGATION LINE
	EXISTING STORM DRAIN COMBO BOX		EXISTING OVERHEAD POWER LINE
	PROPOSED STORM DRAIN COMBO BOX		EXISTING ELECTRICAL LINE
	EXISTING STORM DRAIN CLEAN OUT		EXISTING GAS LINE
	EXISTING STORM DRAIN CULVERT		EXISTING TELEPHONE LINE
	PROPOSED STORM DRAIN CULVERT		ACCESSIBLE ROUTE
	TEMPORARY SAG INLET PROTECTION		SAW CUT LINE
	TEMPORARY IN-LINE INLET PROTECTION		STRAW WATTLE
	ROOF DRAIN		TEMPORARY BERM
	EXISTING ELECTRICAL MANHOLE		TEMPORARY SILT FENCE
	EXISTING ELECTRICAL BOX		LIMITS OF DISTURBANCE
	EXISTING TRANSFORMER		EXISTING WALL
	EXISTING UTILITY POLE		PROPOSED WALL
	EXISTING LIGHT		EXISTING CONTOURS
	PROPOSED LIGHT		PROPOSED CONTOURS
	EXISTING GAS METER		BUILDABLE AREA WITHIN SETBACKS
	EXISTING GAS MANHOLE		PUBLIC DRAINAGE EASEMENT
	EXISTING GAS VALVE		EXISTING ASPHALT TO BE REMOVED
	EXISTING TELEPHONE MANHOLE		PROPOSED ASPHALT
	EXISTING TELEPHONE BOX		EXISTING CURB AND GUTTER
	EXISTING TRAFFIC SIGNAL BOX		PROPOSED CURB AND GUTTER
	EXISTING CABLE BOX		PROPOSED REVERSE PAN CURB AND GUTTER
	EXISTING BOLLARD		TRANSITION TO REVERSE PAN CURB
	PROPOSED BOLLARD		CONCRETE TO BE REMOVED
	EXISTING SIGN		EXISTING CONCRETE
	PROPOSED SIGN		PROPOSED CONCRETE
	EXISTING SPOT ELEVATION		BUILDING TO BE REMOVED
	PROPOSED SPOT ELEVATION		EXISTING BUILDING
	EXISTING FLOW DIRECTION		PROPOSED BUILDING
	EXISTING TREE		
	DENSE VEGETATION		

NOTE: MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PLAN SET.



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FOR:  
TURVILLE  
1820 SOUTH LAKELINE DRIVE  
SALT LAKE CITY, UT

CONTACT:  
TURVILLE  
PHONE:

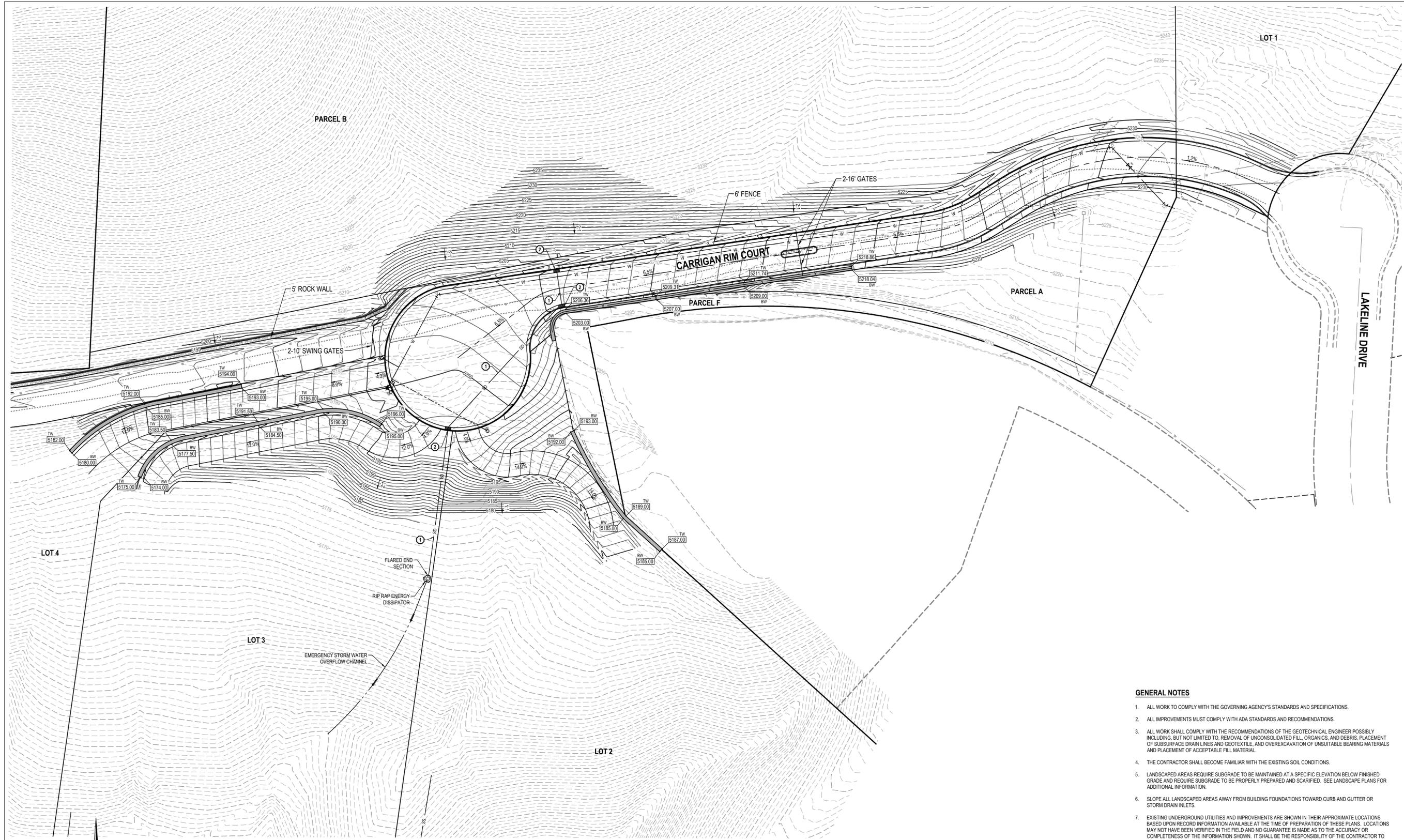
**CARRIGAN VIEW  
PHASE II P.U.D.  
1820 SOUTH LAKELINE DRIVE  
SALT LAKE CITY, UTAH**

**GENERAL NOTES**

PROJECT NUMBER: 9808  
PRINT DATE: 2023-09-28  
DESIGNED BY: RQE  
PROJECT MANAGER: KFW

**C-001**

**CARRIGAN VIEW  
PHASE II P.U.D.  
1820 SOUTH LAKELINE DRIVE  
SALT LAKE CITY, UTAH**



**GENERAL NOTES**

- ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.
- ALL WORK SHALL COMPLY WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER POSSIBLY INCLUDING, BUT NOT LIMITED TO, REMOVAL OF UNCONSOLIDATED FILL, ORGANICS, AND DEBRIS, PLACEMENT OF SUBSURFACE DRAIN LINES AND GEOTEXTILE, AND OVEREXCAVATION OF UNSUITABLE BEARING MATERIALS AND PLACEMENT OF ACCEPTABLE FILL MATERIAL.
- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING SOIL CONDITIONS.
- LANDSCAPED AREAS REQUIRE SUBGRADE TO BE MAINTAINED AT A SPECIFIC ELEVATION BELOW FINISHED GRADE AND REQUIRE SUBGRADE TO BE PROPERLY PREPARED AND SCARIFIED. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
- SLOPE ALL LANDSCAPED AREAS AWAY FROM BUILDING FOUNDATIONS TOWARD CURB AND GUTTER OR STORM DRAIN INLETS.
- EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
- ALL STORM DRAIN INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
- ENSURE MINIMUM COVER OVER ALL STORM DRAIN PIPES PER MANUFACTURER'S RECOMMENDATIONS. NOTIFY ENGINEER IF MINIMUM COVER CANNOT BE ATTAINED.
- ALL FACILITIES WITH DOWNSPOUTS/ROOF DRAINS SHALL BE CONNECTED TO THE STORM DRAIN SYSTEM. SEE PLUMBING PLANS FOR DOWNSPOUT/ROOF DRAIN LOCATIONS AND SIZES. ALL ROOF DRAINS TO HAVE MINIMUM 1% SLOPE.
- THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE, ASPHALT, OR STORM DRAIN STRUCTURES OR PIPES.
- THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

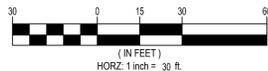
**SCOPE OF WORK:**

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- A-2000 PVC STORM DRAIN LINE OR APPROVED EQUAL. INSTALLATION AND TRENCHING PER CITY STANDARDS AND SPECIFICATIONS. LENGTH AND SLOPE PER PLAN.
- CATCH BASIN PER CITY STANDARDS AND SPECIFICATIONS.
- DAYLIGHT TO EXISTING GROUND WITH MAXIMUM 2:1 SLOPE.



**HORIZONTAL GRAPHIC SCALE**

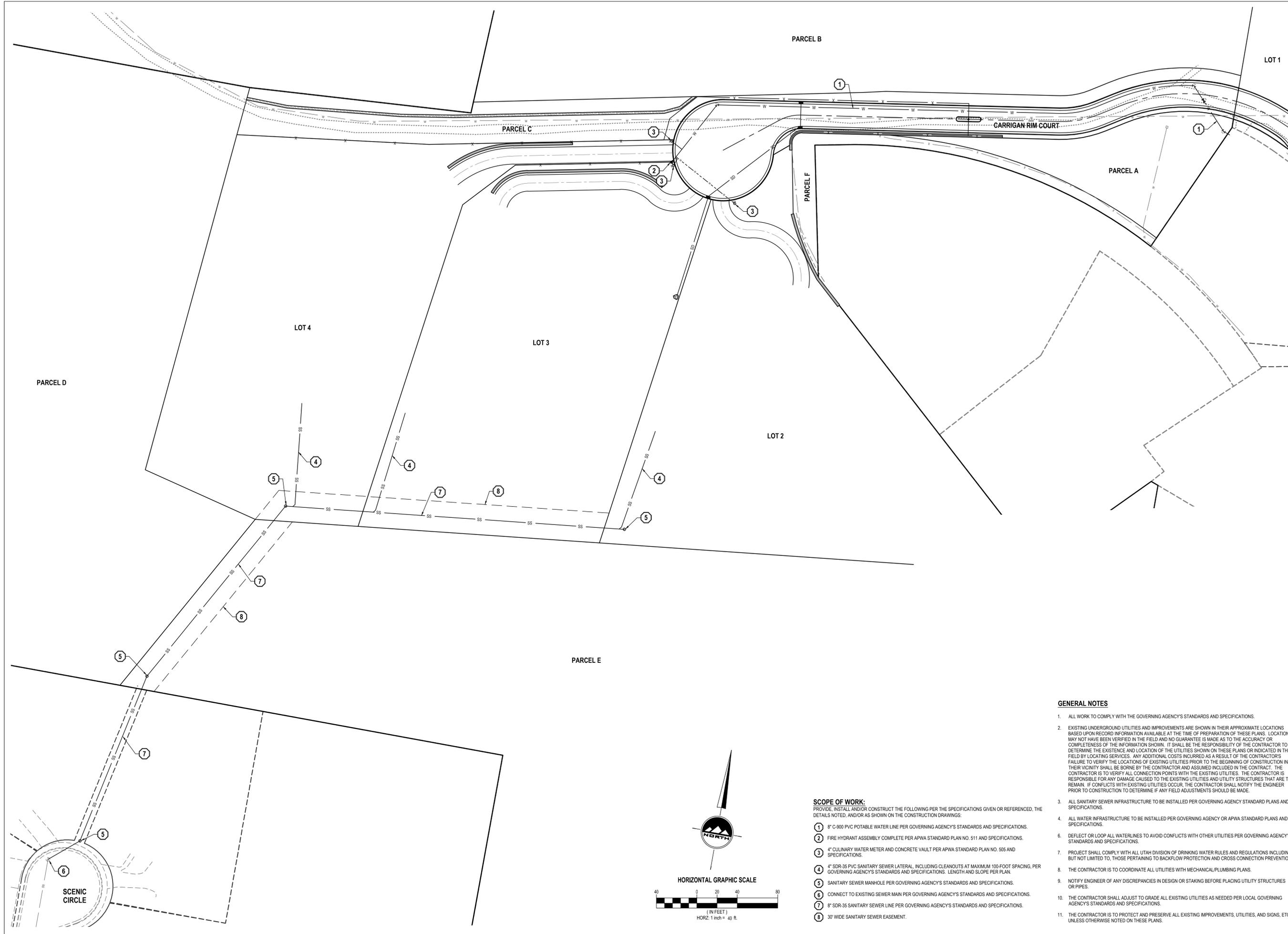


**GRADING AND DRAINAGE PLAN**

PROJECT NUMBER: 9808  
PRINT DATE: 2023-09-28  
PROJECT MANAGER: RQE  
DESIGNED BY: KFW

**C-200**

**CARRIGAN VIEW  
PHASE II P.U.D.  
1820 SOUTH LAKELINE DRIVE  
SALT LAKE CITY, UTAH**



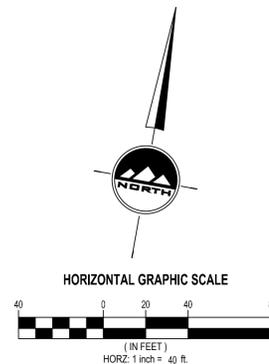
**GENERAL NOTES**

1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
2. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
3. ALL SANITARY SEWER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY STANDARD PLANS AND SPECIFICATIONS.
4. ALL WATER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
5. DEFLECT OR LOOP ALL WATERLINES TO AVOID CONFLICTS WITH OTHER UTILITIES PER GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
6. PROJECT SHALL COMPLY WITH ALL UTAH DIVISION OF DRINKING WATER RULES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, THOSE PERTAINING TO BACKFLOW PROTECTION AND CROSS CONNECTION PREVENTION.
7. THE CONTRACTOR IS TO COORDINATE ALL UTILITIES WITH MECHANICAL/PLUMBING PLANS.
8. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING UTILITY STRUCTURES OR PIPES.
9. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
10. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

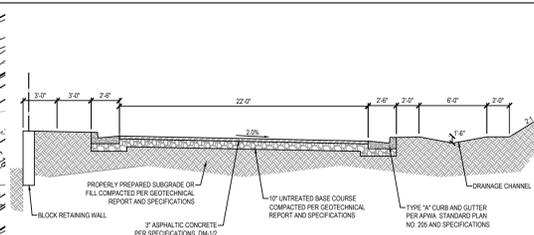
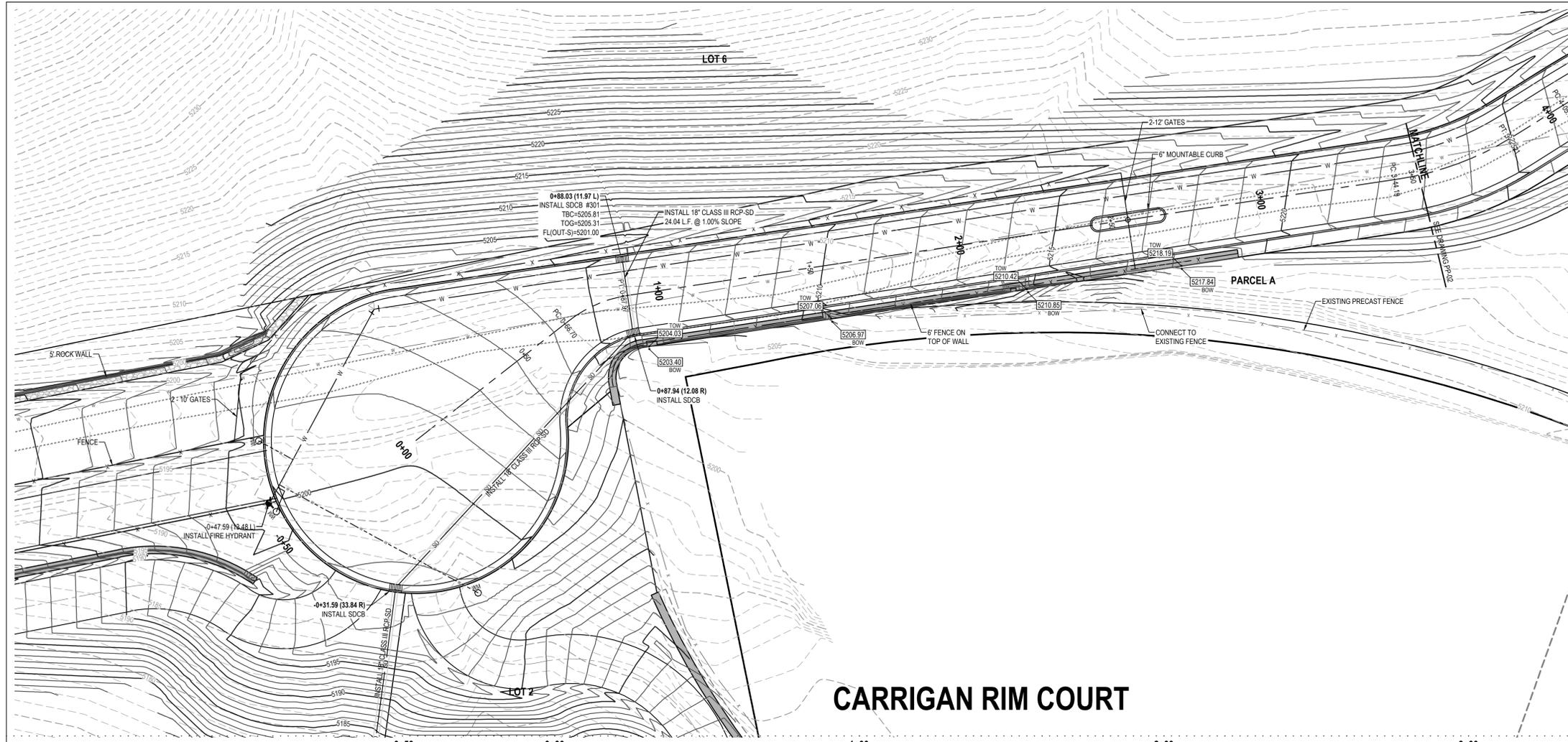
**SCOPE OF WORK:**

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

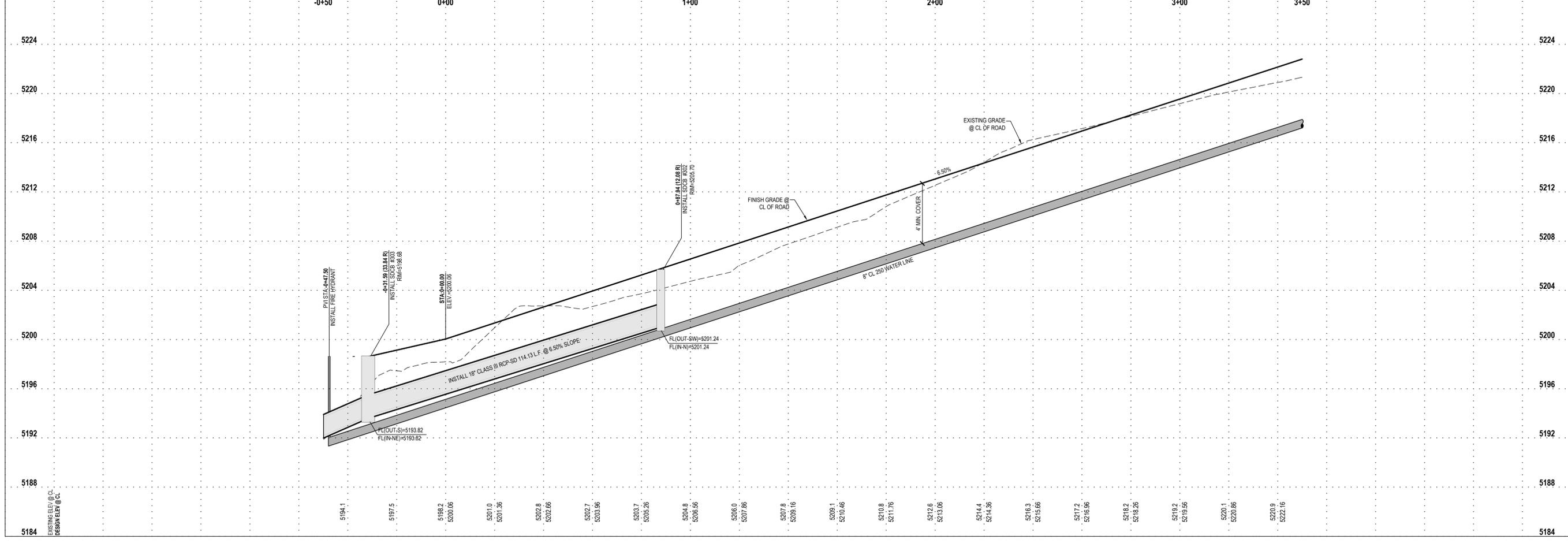
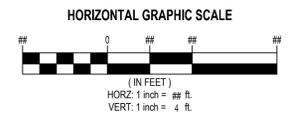
1. 8" C-900 PVC POTABLE WATER LINE PER GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
2. FIRE HYDRANT ASSEMBLY COMPLETE PER APWA STANDARD PLAN NO. 511 AND SPECIFICATIONS.
3. 4" CULINARY WATER METER AND CONCRETE VAULT PER APWA STANDARD PLAN NO. 505 AND SPECIFICATIONS.
4. 4" SDR-35 PVC SANITARY SEWER LATERAL, INCLUDING CLEANOUTS AT MAXIMUM 100-FOOT SPACING, PER GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS. LENGTH AND SLOPE PER PLAN.
5. SANITARY SEWER MANHOLE PER GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
6. CONNECT TO EXISTING SEWER MAIN PER GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
7. 8" SDR-35 SANITARY SEWER LINE PER GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
8. 30' WIDE SANITARY SEWER EASEMENT.



**UTILITY PLAN**



1 ROAD CROSS SECTION  
SCALE: NONE



**ENSIGN**  
THE STANDARD IN ENGINEERING

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**RICHFIELD**  
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FOR:  
TURVILLE  
1820 SOUTH LAKELINE DRIVE  
SALT LAKE CITY, UT

CONTACT:  
TURVILLE  
PHONE:

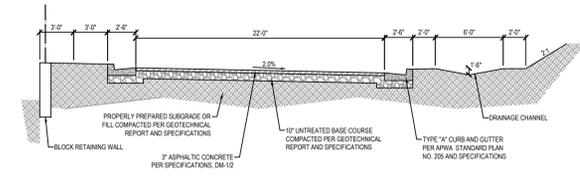
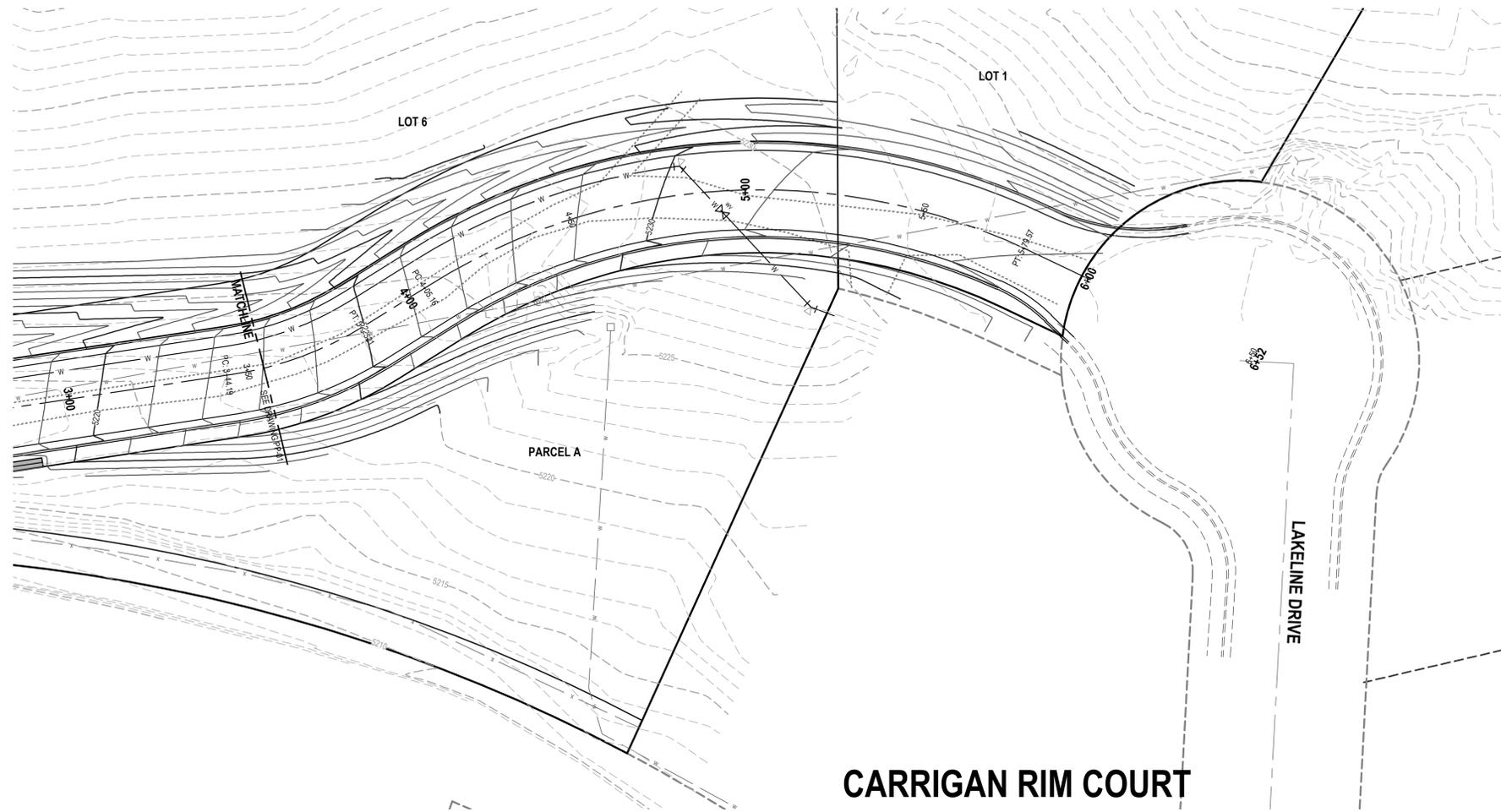
**CARRIGAN VIEW  
PHASE II P.U.D.**  
1820 SOUTH LAKELINE DRIVE  
SALT LAKE CITY, UTAH

PLAN AND PROFILE

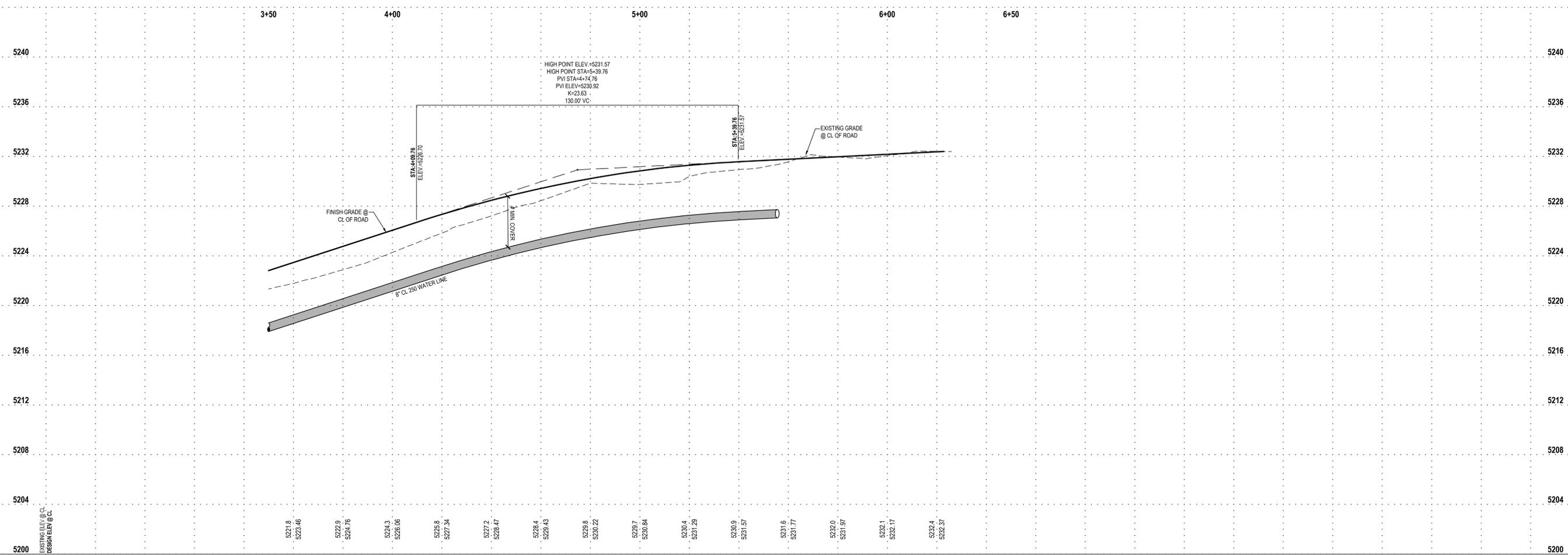
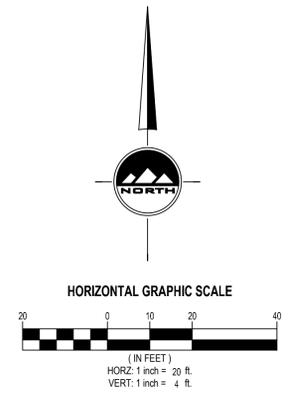
PROJECT NUMBER: 9808  
PROJECT MANAGER: RQE  
PRINT DATE: 2023-09-28  
DESIGNED BY: KFW

**PP-01**

ENGINERS & ARCHITECTS  
DESIGN ELEV @ CL



1 ROAD CROSS SECTION SCALE NONE



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FOR:  
TURVILLE  
1820 SOUTH LAKELINE DRIVE  
SALT LAKE CITY, UT

CONTACT:  
TURVILLE  
PHONE:

**CARRIGAN VIEW  
PHASE II P.U.D.  
1820 SOUTH LAKELINE DRIVE  
SALT LAKE CITY, UTAH**

**PLAN AND PROFILE**

PROJECT NUMBER: 9808  
PROJECT MANAGER: RQE  
PRINT DATE: 2023-09-28  
DESIGNED BY: KFW

**PP-02**

ENGINTELL @ C.  
DESIGN/LEVEL @ CL.