

COME PAINT YOUR FUTURE WITH US

Planning & Building

130 S. McKinley Avenue
Fort Lupton, CO 80621
Fax: 303.857.0351

Phone: 303.857.6694
www.fortluptonco.gov

Date: March 30, 2020	Applicant: Petro Operating Company, Inc. – Andy Peterson
Address / Location of Project: 1/4NW Section 30, T2N and R66W, Southwest Corner of S. Platte River and WCR 18, Approximately 12546 County Rd 18, Fort Lupton, 80621.	
Telephone: (970) 669-7411	

Description of work (Complete for All Work):

Proposed Development Description:

- ☐ New Building
☐ Manufactured Home
☒ Other O&G Facilities
- ☐ Improvement to Existing Building
☐ Filling

1. Size and location of proposed development (attach site plan):

The proposed facilities will be located on an ~3 acres located on existing ground that is predominately elevated above the existing 100-year floodplain. The site is located in the SW Corner of the S. Platte River and Weld County Road 18. See Attachment A for Site Plan

2. Is the proposed development in a Special Flood Hazard Area (SFHA Zones A, AE, A1-A30, AH or AO)?

☒ Yes ☐ No

3. Per the Floodplain Map, what is the zone and panel number of the area of the proposed development?

Zone AE Panel Number 08123C2102E (See Attachment B)

4. Are other Federal, State or Local permits obtained?

☐ Yes ☒ No

Type: _____

5. Is the proposed development in an identified floodway?

☒ Yes ☐ No

6. If Yes to No.6, is a "No Rise Certification" with supporting data attached?

☒ Yes ☐ No See Attachment C

B. Complete for New Structures and Building Sites:

1. Base Flood Elevation at the site: ~4874.0 feet NAVD88
2. Required lowest floor elevation (including basement): N/A feet NAVD88
3. Elevation to which all attendant utilities, including all heating and electrical equipment will be protected from flood damage: N/A feet NAVD88

C. Complete for Alterations, Additions, or Improvements to Existing Structure?

1. What is the estimated market value of the existing structure? \$ N/A
2. What is the cost of the proposed construction? \$ N/A

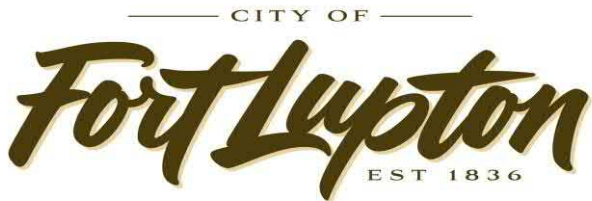
3. If the cost of the proposed construction equals or exceeds 50 percent of the market value of the structure, then the substantial improvement provisions shall apply.

D. Complete for Non-Residential Flood proofed Construction:

1. Type of flood proofing method: N/A
2. The required flood proofing elevation is: N/A feet NGVD
3. Flood proofing certification by a registered engineer is attached: ☐ Yes ☐ No N/A

E. Complete for Subdivisions and Planned Unit Developments (PUD):

1. Will the subdivision or other development contain 50 lots or 5 acres?
☐ Yes ☒ No
2. If yes, does the plat or proposal clearly identify base flood elevations?
☐ Yes ☐ No N/A
3. Are the 100-Year Floodplain and Floodway delineated on the Site Plan?
☒ Yes ☐ No (See Attachment D)



Planning & Building
130 S. McKinley Avenue
Fort Lupton, CO 80621
Fax: 303.857.0351
Phone: 303.857.6694
www.fortluptonco.gov

For Office Use Only

1. Permit approved ☐ Permit denied ☐ (Statement attached)
2. Floodplain Review Fee: \$ **1750.00** (1,000 escrow +750 application fee) (Due at time of application)
3. Elevation Certificate attached: ☐ Yes ☐ No
4. As-Built lowest floor elevation: _____ feet NGVD
5. Work inspected by: _____
6. City Engineer Signature: _____ Date _____

Conditions: _____













SITE PLAN

LG EVERIST 2N66W30

A PORTION OF LOT 2 OF THE LUPTON MEADOWS
LAND CO. MAP OF DIVISION NO. 3
SITUATE IN THE NORTHWEST QUARTER OF SECTION 30,
TOWNSHIP 2 NORTH, RANGE 66 WEST, 6TH P.M.
CITY OF FOR LUPTON, COUNTY OF WELD,
STATE OF COLORADO

LEGEND

- | | |
|---|---------------------------------------|
| — — — — — | SECTION LINE |
| — — — — — | EXISTING CONTOUR INDEX (10' INTERVAL) |
| — — — — — | SECTION LINE FRACTIONAL |
| ===== | PARCEL LINE |
| — — — — — | RIGHT-OF-WAY LINE |
| == == | CITY LIMITS |
| — — — — — | EXISTING CONTOUR (2' INTERVAL) |
| -----4700----- | |
| =====

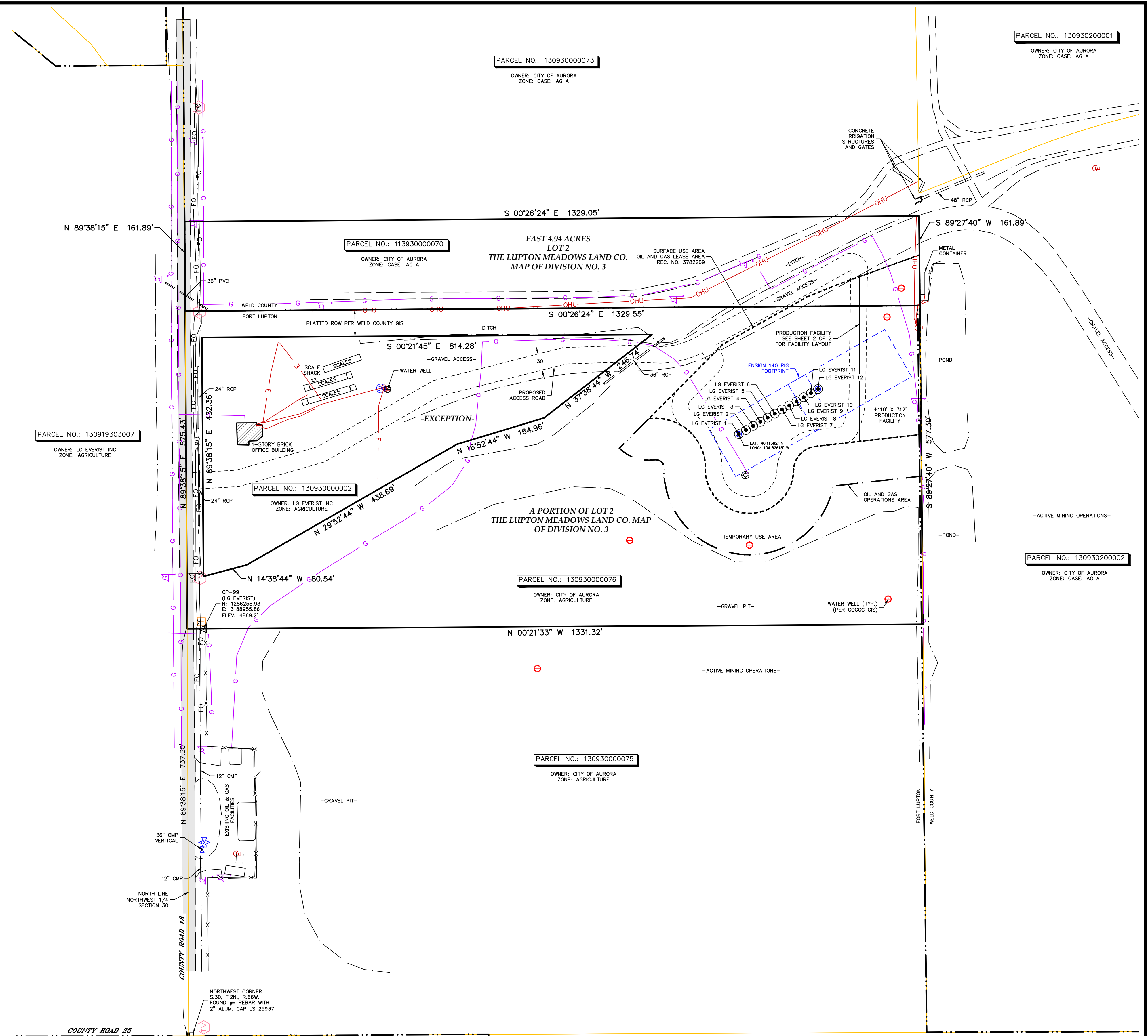
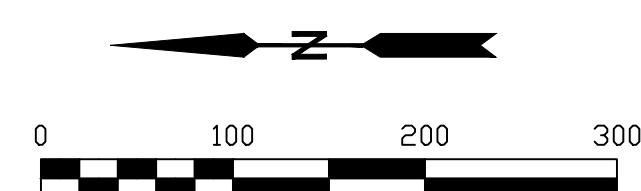
===== | PIPE |
| — W — | WATER LINE |
| — G — | GAS LINE |
| — T — | TELEPHONE LINE |
| — E — | UNDERGROUND ELECTRIC |
| — OHU — | OVERHEAD UTILITY |
| — FO — | FIBER OPTIC LINE |
| — x — x — | FENCE |
| — — | SURFACE WATER |
| ===== | ASPHALT |
|  | BUILDING |
|  | CONTROL POINT |
|  | CABLE TV PEDESTAL |
|  | FIBER OPTIC MARKER |
|  | TELEPHONE PEDESTAL |
|  | ELECTRIC SERVICE |
|  | AIR VALVE |
|  | WATER MANHOLE |
|  | WATER VALVE |
|  | GAS MARKER |
|  | EXISTING WELL HEAD |
|  | PROPOSED WELL HEAD |

VERTICAL DATUM:
NAVD 1988, BASED ON GPS OBSERVATIONS USING TRIMBLE VRS NETWORK.

HORIZONTAL DATUM:
COLORADO STATE PLANE COORDINATES, NORTH ZONE, NAD 83. BASED ON GPS OBSERVATIONS USING
TRIMBLE VRS NETWORK.

NOTE:

- NOTE: THIS DRAWING IS AT MODIFIED STATE PLANE. TO REDUCE TO STATE PLANE COORDINATES, SCALE AT 0.999755370 (1.00024670) ABOUT THE ORIGIN 0,0.
1. ALL PROPERTY PINS, INTERSECTION MONUMENTS, AND SECTION CORNERS DISTURBED DURING CONSTRUCTION MUST BE REFERENCED AND REPLACED UNDER THE SUPERVISION OF A LICENSED SURVEYOR.
2. THIS AUTOCAD DRAWING CONTAINS INFORMATION THAT IS NOT VISIBLE ON THE PLOTTED COPY. TO OBTAIN ALL THE INFORMATION THAT IS AVAILABLE IN THIS DRAWING, ALL THE AUTOCAD LAYERS MUST BE TURNED ON AND THAWED.
3. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF UTILITIES AND TO USE CARE IN THE AREA OF THE WORK BEFORE COMMENCING NEW CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
4. ALL PROJECT CONTROL LISTED HEREON IS PROVIDED AS A COURTESY. IT IS THE RESPONSIBILITY OF THE RECIPIENT TO VERIFY THE ACCURACY OF THE COORDINATES AND ELEVATIONS SHOWN PRIOR TO USING THEM FOR ANY PURPOSES.
5. ENTIRE PROPERTY IS IN FLOOD ZONE "AE", AREAS OF "SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY 1% ANNUAL CHANCE FLOOD". PER FEMA FLOOD MAP 08123C1915E AND 08123C2102E EFFECTIVE JANUARY 20, 2016.



SHEET SIZE: 24X36



Lat40°, Inc.
Professional Land Surveyors
6250 W. 10th Street, Unit 2
Greeley, CO 80634
O: 970-515-5294

DATE: 6/18/2019		FILE NAME: 2018223SITE.dwg		DRAWN BY: SLR		CHECKED BY: BTB		SCALE: 1" = 100'		SHEET 1 SIZE: 24x36 PROJECT #: 2018223	
REVISIONS:			DATE:		<div>SITE PLAN</div> <div>FOR</div> <div>PETRO OPERATING COMPANY, LLC</div> <div>9033 EAST EASTER PLACE, STE 112</div> <div>CENTENNIAL, CO 80112</div> <div>1</div> <div>SHEET 1 OF 2</div>						

FACILITY LAYOUT

LG EVERIST 2N66W30

A PORTION OF LOT 2 OF THE LUPTON MEADOWS

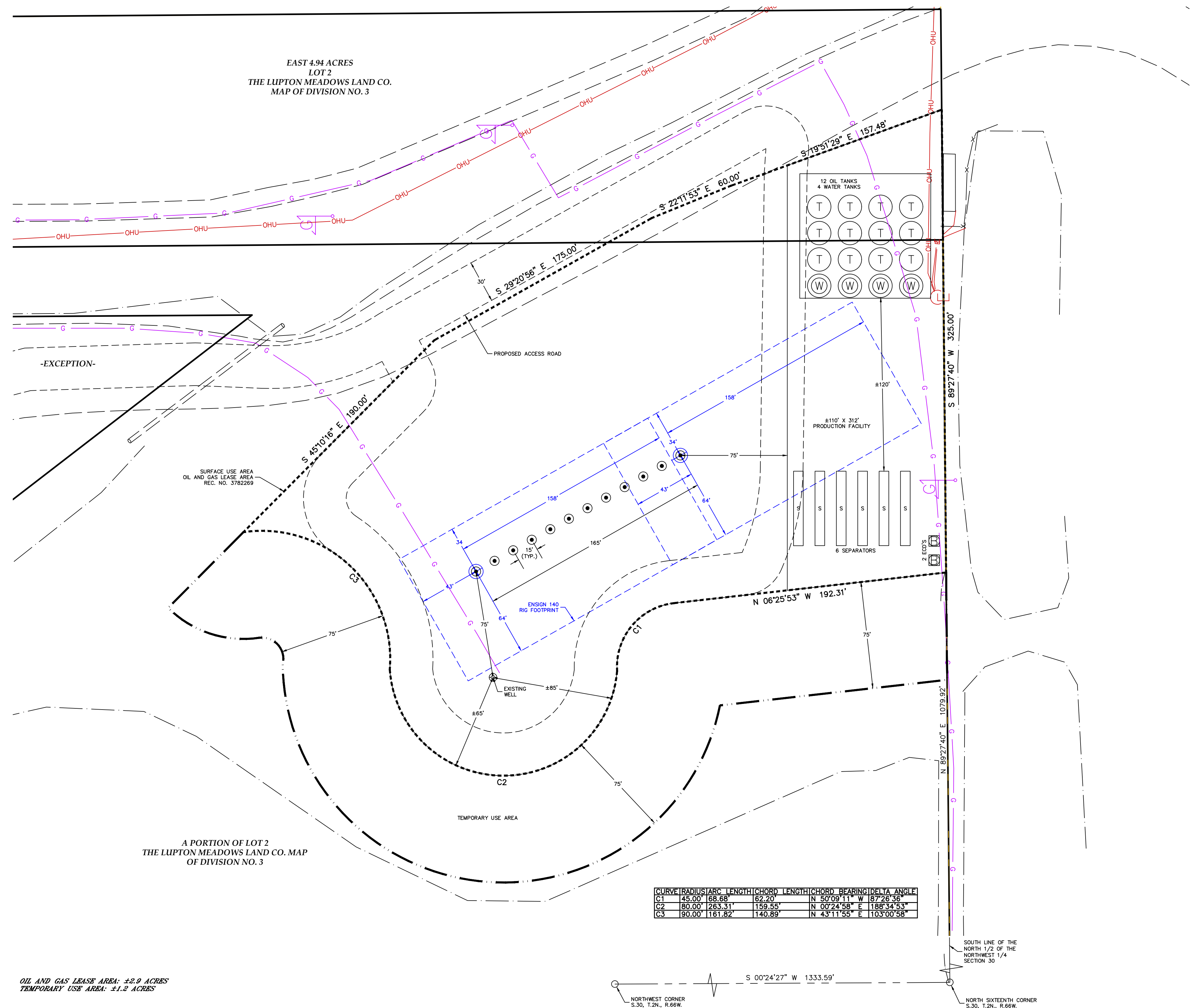
LAND CO. MAP OF DIVISION NO. 3

SITUATE IN THE NORTHWEST QUARTER OF SECTION 30,

TOWNSHIP 2 NORTH, RANGE 66 WEST, 6TH P.M.

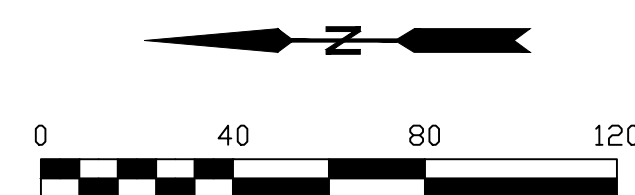
CITY OF FOR LUPTON, COUNTY OF WELD,

STATE OF COLORADO



LEGEND

- PROPOSED WELL HEAD
- TANK BATTERY
- WATER TANK
- WATER VAULT
- SEPARATOR
- ECD
- METER
- VRU- VAPOR RECOVERY UNIT



Lat40, Inc.
Professional Land Surveyors
6250 W. 10th Street, Unit 2
Greeley, CO 80634
O: 970-515-5294

DATE: 6/18/2019	FILE NAME: 2018223SITE.dwg	DRAWN BY: SLR	CHECKED BY: BTB	SCALE: 1" = 40'	PROJECT #: 2018223
REVISIONS:	DATE:	FACILITY LAYOUT FOR PETRO OPERATING COMPANY, LLC 9033 EAST EASTER PLACE, STE 112 CENTENNIAL, CO 80112			
		2			
		SHEET 2 OF 2			

Document Path: H:\PetroOperatingCo\CO_FLLupton-PTO000001 -SPlatter @ WCR18 FP PermitGIS\maps\Figure_1.mxd

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **Floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only to landward of 0.0 North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes, when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Universal Transverse Mercator (UTM) zone 13. The horizontal datum was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NWS12
National Geodetic Survey
SSMCS, #6202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was derived from NAIP Orthophotography produced with a one meter ground resolution from photography dated 2013.

The **profile baselines** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the **profile baseline**, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

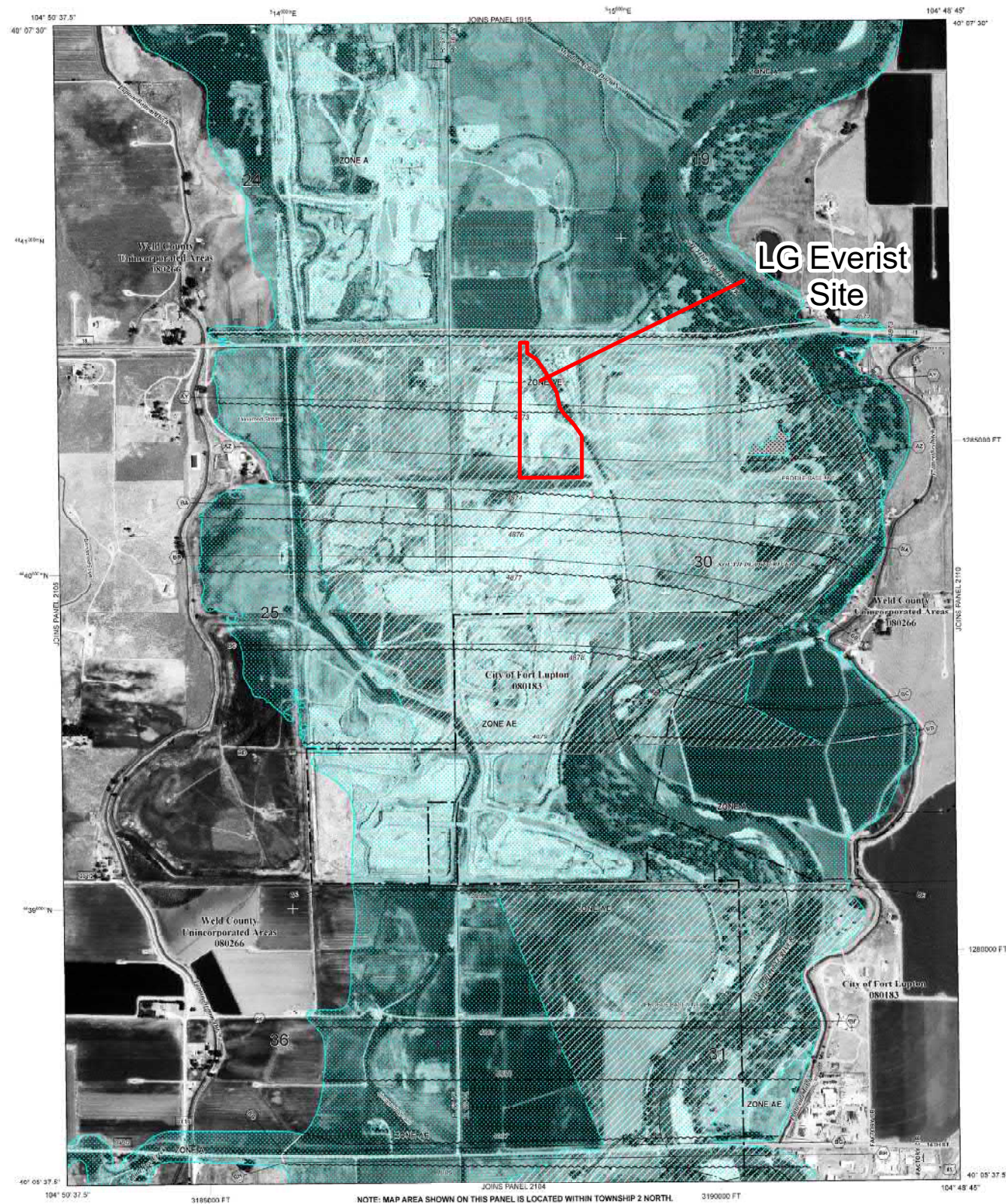
This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels, community map repository addresses, and a listing of communities with National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a flood insurance study report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have **questions about this map**, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information Exchange (FMIX)** at 1-877-FEMA-8080 (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/businessinfo>.



NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 2 NORTH.

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
The 1% annual chance flood (100-year flood), also known as the "base flood," is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include ZONE A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A: No Base Flood Elevation determined.
ZONE AE: Base Flood Elevation determined.
ZONE AH: Flood depths of 1 to 3 feet (mostly areas of ponding). Base Flood Elevation determined.
ZONE AO: Flood depths of 1 to 3 feet (mostly areas on sloping lands). Average depths determined. For areas of about 100 feet floodway, floodway also determined.
ZONE AR: Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently determined to be obsolete. These areas are now subject to the 1% annual chance flood. Areas to be protected from 1% annual chance flood by a Federal flood protection system under construction, or by State flood elevations determined.
ZONE A99: Coastal flood zone with velocity hazard (wave action). No Base Flood Elevation determined.
ZONE V: Coastal flood zone with velocity hazard (wave action). Base Flood Elevation determined.
ZONE VE: Coastal flood zone with velocity hazard (wave action). Base Flood Elevation determined.

FLOODWAY AREAS IN ZONE AE:

The floodway is the lateral or adjacent floodway areas that must be kept free of encroachment so that the 1% annual chance flood can be moved without substantial increases in flood heights.

OTHER FLOOD AREAS:

ZONE X: Areas of 0.2% annual chance flood, areas of 1% annual chance flood with average depths of less than 1 foot or with depths of less than 1 square foot, and areas protected by levees from 1% annual chance flood.

OTHER AREAS:

ZONE X: Areas determined to be outside the 0.2% annual chance floodway.
ZONE D: Areas in which flood heights are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS:

OTHERWISE PROTECTED AREAS (OPAs):

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

0.2% Annual Chance Floodway Boundary:

Floodway Boundary:

Zone D Boundary:

CBRS and OPA Boundary:

Boundary dividing Special Flood Hazard Areas and boundary enclosing Special Flood Hazard Areas of a Floodway Floodway, Floodway, or Floodway:

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Base Flood Elevation (see note):

Galloway & Company, Inc.

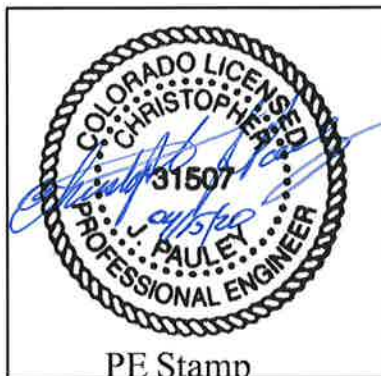
“NO-RISE” CERTIFICATION

This is to certify that I am a duly qualified registered professional engineer licensed to practice in the State of Colorado.

It is further to certify that the attached technical data supports the fact that the proposed/~~constructed~~ LG EVERIST SITE (Name of Development) will not impact the 100-year flood elevations on SOUTH PLATTE RIVER (Name of Stream) at published or unpublished cross-sections in the FEMA Flood Insurance Study for WELD COUNTY dated JANUARY 20, 2016 (Study Date) and/or other “Best Available Data” in the vicinity of the proposed development beyond that allowed by FEMA regulations for flooding sources with established Base Flood Elevations and no regulatory floodway cited in 44 CFR 60.3(c)(10) or with a regulatory floodway cited in 44 CFR 60.3(d)(3).

Attached are the following documents that support my findings:

1. Attachment D.2 CHAMP Model HEC-RAS Cross Section 1590972 showing site located on ground elevated above the BFE
2. Attachments E.1 & E.2 Recreated CHAMP Study Workmaps based on 2013 LiDAR Topography. Presents CHAMP Floodplain/Floodway delineations and BFEs with a 100-Year Flood Depth Grid showing subject site predominantly dry with a small amount of ineffective backwater on the site.
3. LG Everist Site Floodplain Permitting Summary Letter, Galloway, April 15, 2020.



PE Stamp

Signature: _____

Name (printed): Chris J. Pauley

Company Name: Galloway & Company, Inc.

Date: 04/15/20

18

1582472

1583721

1584044

1584700

1584267

1585481

1586467

1587473

1588472

1589124

1589830

1589711

LG EVERIST SITE
2N66W30

1590348

1590972

1591472

1591972

1592415

1592972

1593607

1594472

1595431

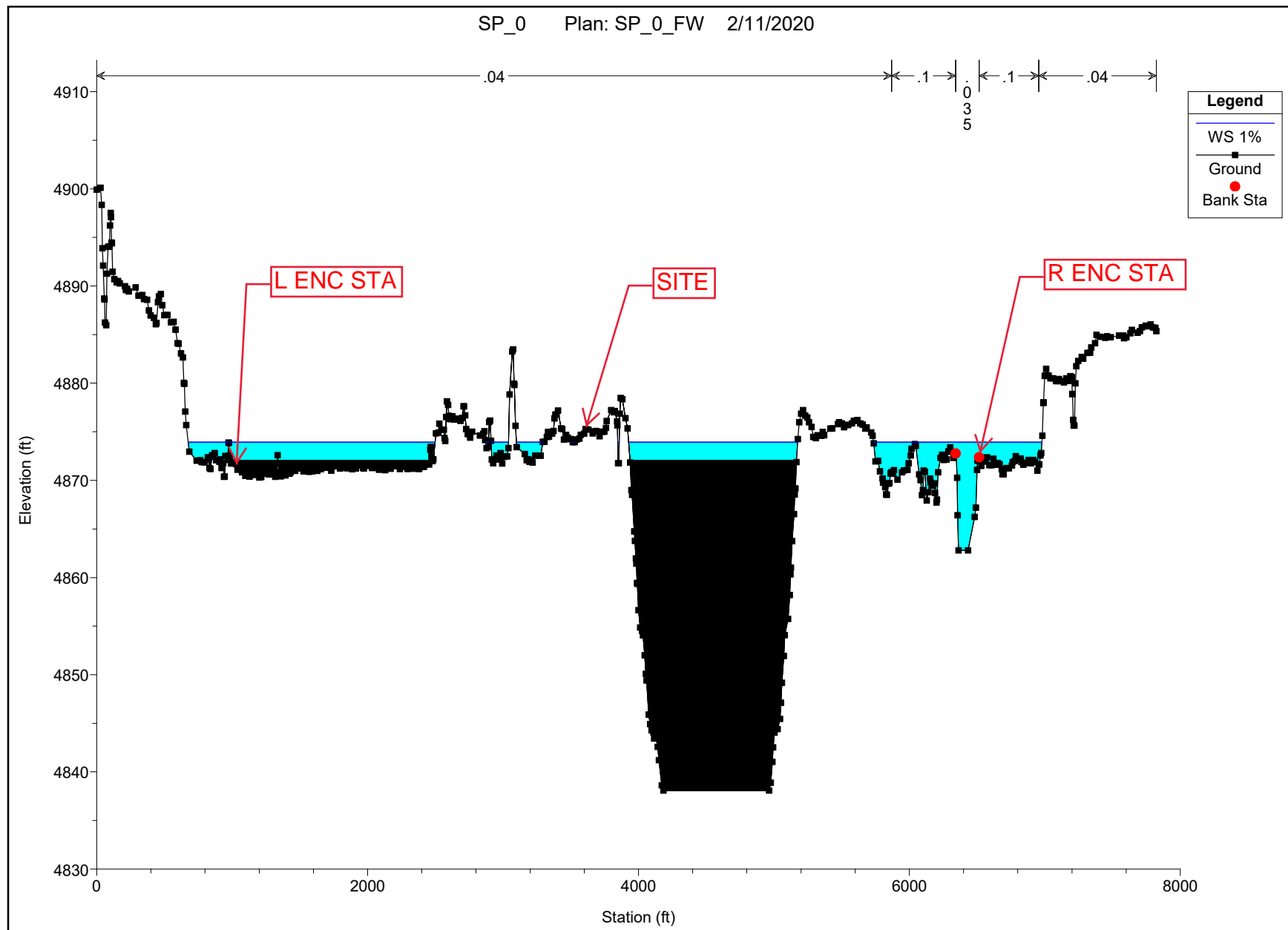
1595885

1596759

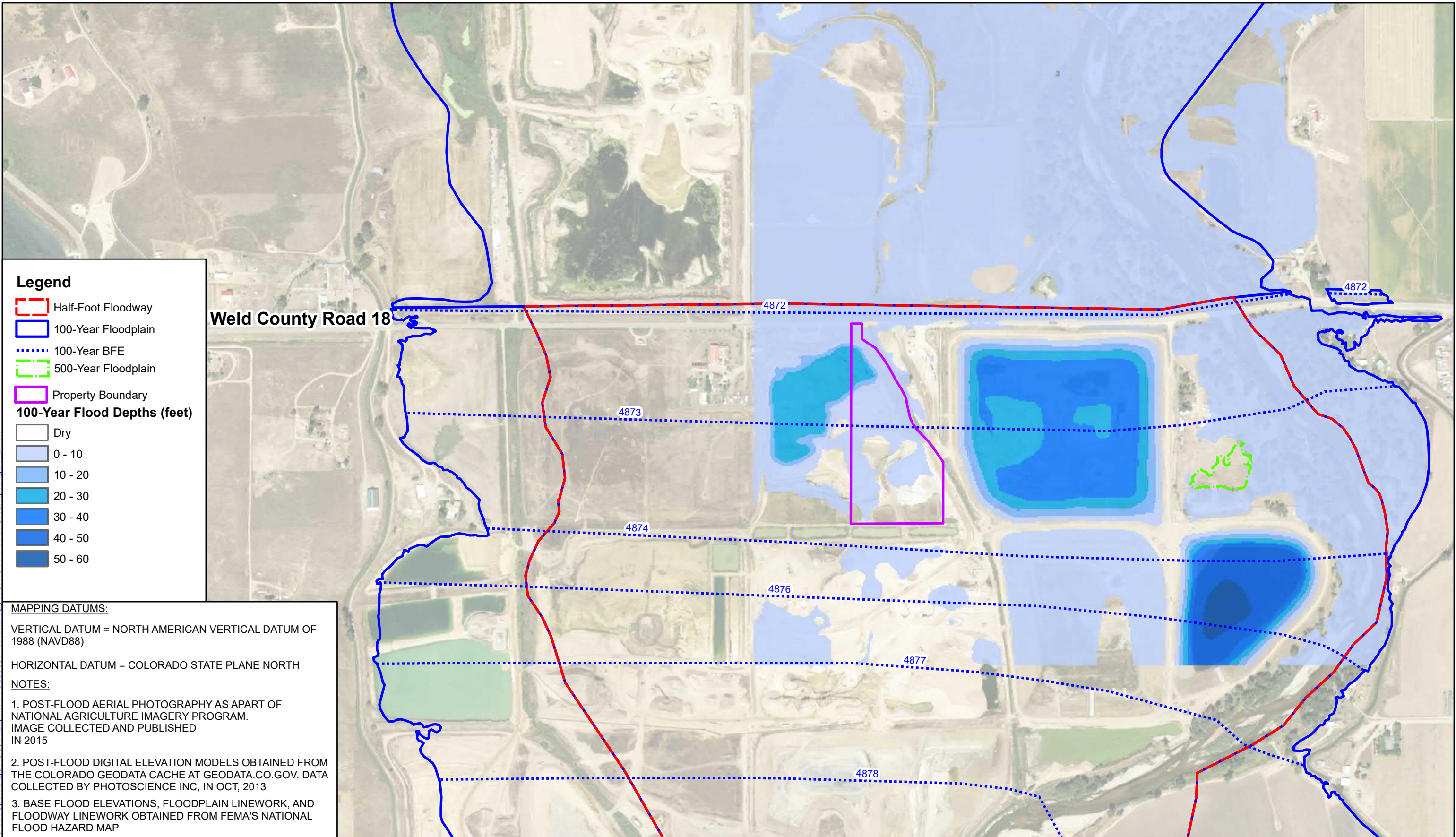
1597472

SOUTH PLATTE RIVER

ATTACHMENT D.2



Document Path: H:\PetroOperatingCo\CO_FLD\lupton-PTO000001 -SPlatterR @ WCR18 FP PermitGIS\maps\Figure 2.mxd



Legend

- Half-Foot Floodway
 - 100-Year Floodplain
 - 100-Year BFE
 - 500-Year Floodplain
 - Property Boundary
- 100-Year Flood Depths (feet)**
- Dry
 - 0 - 10
 - 10 - 20
 - 20 - 30
 - 30 - 40
 - 40 - 50
 - 50 - 60

MAPPING DATUMS:

VERTICAL DATUM = NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

HORIZONTAL DATUM = COLORADO STATE PLANE NORTH

NOTES:

1. POST-FLOOD AERIAL PHOTOGRAPHY AS PART OF NATIONAL AGRICULTURE IMAGERY PROGRAM. IMAGE COLLECTED AND PUBLISHED IN 2015
2. POST-FLOOD DIGITAL ELEVATION MODELS OBTAINED FROM THE COLORADO GEODATA CACHE AT GEODATA.CO.GOV. DATA COLLECTED BY PHOTOSCIENCE INC, IN OCT, 2013
3. BASE FLOOD ELEVATIONS, FLOODPLAIN LINEWORK, AND FLOODWAY LINEWORK OBTAINED FROM FEMA'S NATIONAL FLOOD HAZARD MAP

Galloway
Planning, Architecture, Engineering
5265 Ronald Reagan Blvd., Suite 210
Johnstown, CO 80534
970.800.3300 GallowayUS.com



Original Scale: 1" = 600'



DRAWN BY:
PMO
DESIGNED BY:
PMO
CHECKED BY:
CJP

PROJECT NUMBER: PTO000001
PROJECT FILE: Figure_2
DATE: 04/15/2020

**PETRO OPERATIONG CO.
LG EVERIST SITE
SOUTH PLATTE RIVER
FLOODPLAIN PERMITTING**

**EFFECTIVE
FLOODPLAIN WORKMAP
RIVER WIDE VIEW**

**ATTACHMENT
E.1**

Document Path: H:\PetroOperatingCo\CO_FLL\lupton-PTO000001 -SPlatterR @ WCR18 FP Permit\GIS\maps\Figure_3.mxd

