

INTERIM RECLAMATION PLAN



Date: January 10, 2022

Location: WR OGD 1 / Wells Ranch CDP / A18-09 Pad

Legal Description: NESE Section 18, Township 6 North, Range 64 West, 6th P.M., Weld County, Colorado

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Article I. Introduction

Location Information

This document provides site-specific information for the A18-09 well pad within WR OGD 1 of the Wells Ranch CDP. The information in this document relates specifically to the time during the construction, drilling, completion, and production of the eight (8) proposed horizontal wells on this location.

The proposed location is irrigated crop northwest of the intersection of WCR 51 and Highway 392. The Pad will be in the NESE Section 18, Township 6 North, Range 64 West, 6th P.M., zoned agricultural within the Weld County Near-Urban Planning Area. A 1041 WOGLA was filed for the well pad as 1041WOGLA19-0042 on 12/10/2019 and recorded at reception #4556398 on 1/8/2020. Site-specific supplemental information will be filed with Weld County prior to commencement of operations.

The proposed A18-09 Pad oil and gas location disturbance will be 10.4 acres, reduced to 3.0 after interim reclamation at an elevation of 4,704'. The proposed working pad surface will be 7.0 acres. The Pad is on Parcel #080118000004 owned by Richard L. Foose. The location is currently used for farming.

The A18-09 Pad will produce to the proposed A07-08 Facility. Equipment at the A18-09 Pad will include injection pumps, meter buildings, multi-phase flow meters, communication towers, flowline manifolds, a temporary minion tank, and solar skids.

Phase	Duration (days)	Estimated Start Date
Construction	60 days	3rd Quarter, 2024
Drilling	40 days	1st Quarter, 2025
Completion	40 days	3rd Quarter, 2025
Flowback	N/A	Flowing back directly to permanent facility.
Production	25 years	1st Quarter, 2026
Interim Reclamation	60 days	4th Quarter, 2026

Article II. Site Specific Details

Vegetation

Location is in irrigated cropland.

Soils

Total area of soil disturbance in acres including accesses and flowline corridors: approximately 21.4 acres.

Pad Soil type(s): 39 - Nelson fine sandy loam, 0 to 3 percent slopes; 51 - Otero sandy loam, 1 to 3 percent slopes

Access Soil type(s)*: 4 - Aquolls and Aquepts, flooded; 47 - Olney fine sandy loam, 1 to 3 percent slopes

Flowline Corridor Soil type(s)*: 4 - Aquolls and Aquepts, flooded; 37 - Nelson fine sandy loam, 0 to 3 percent slopes; 38 - Nelson fine sandy loam, 3 to 9 percent slopes; 47 - Olney fine sandy loam, 1 to 3 percent slopes; 52 - Otero sandy loam, 3 to 5 percent slopes

**NRCS data is not accurate at scale for access roads and flowline corridor.*

Security

A meeting with the surface owner will occur after completions but before interim reclamation to determine a fencing plan if needed. The location will be adequately secured per 603.h to restrict access by unauthorized persons in accordance with the surface owner's requests.

Access/Pipeline/Flowline/Utility

No portions of the access road will be reclaimed. Buried intra-facility flowline corridors will be totally reclaimed. 3rd party utility and gathering pipelines are not being permitted as part of this OGD.

Article III. Mitigation Measures and Best Management Practices

1002.a. Fencing

Noble will use CPW-recommended fence designs when consistent with the Surface Owner's approval and any relevant Local Government requirements.

1002.f. Stormwater Management

Temporary seeding, hydro mulching, and/or surface roughening will be placed along the south, east, and north sides of the pad during initial pad construction and maintained until interim reclamation, where additional seeding, hydro mulching, and/or surface roughening will also occur at the areas being reclaimed.

1003.a. General

When wells are completed for production, all disturbed areas no longer needed will be restored and revegetated as soon as practicable.

All well sites and surface production facilities shall be maintained in accordance with Rule 603.

Equipment, Weeds, Waste, and Trash: Debris and waste materials other than de minimis amounts, including, but not limited to, concrete, sack bentonite and other drilling mud additives, sand plastic, pipe and cable, as well as equipment associated with the drilling, re-entry, or completion operations will be removed.

All E&P waste shall be handled according to the 900 Series rules.

All guy line anchors shall be brightly marked pursuant to Rule 603.j.

1003.b. Areas no Longer in Use

All disturbed areas affected by drilling or subsequent operations, except areas reasonably needed for production operations or for subsequent drilling operations to be commenced within twelve (12) months, will be reclaimed as early and as nearly as practicable to their original condition or their final land use as designated by the surface owner and will be maintained to control dust and minimize erosion. If subsidence occurs in such areas, additional topsoil will be added to the depression and the land will be re-leveled as close to its original contour as practicable.

All holes unnecessary for further lease operations will be backfilled as soon as possible after the drilling rig is released to conform with surrounding terrain.

1003.c. Compaction Alleviation.

All areas compacted by drilling and subsequent oil and gas operations which are no longer needed following completion of such operations will be cross-ripped. Compaction alleviation operations will be undertaken when the soil moisture at the time of ripping is below thirty-five percent (35%) of field capacity. Ripping will be undertaken to a depth of eighteen (18) inches unless bed rock is encountered at a shallower depth.

1003.d. Drilling pit closure

Location is closed loop. No pits on location, so no pit closure will be needed.

1003.e. Restoration and revegetation

All segregated soil horizons removed from non-crop lands shall be replaced to their original relative positions and contour as near as practicable to achieve erosion control and long-term stability and shall be tilled adequately in order to establish a proper seedbed. The disturbed area then shall be returned to farmland in the first favorable season following rig demobilization.

Noble Energy will be responsible for segregating the topsoil, backfilling, re-compacting any backfill, reseeding, and re-contouring the surface of any disturbed area so as not to interfere with Owner's operations and will reclaim such area to be returned to preexisting conditions as best as possible with control of all weeds.

1003.f. Weed control

During drilling, production, and reclamation operations, all disturbed areas shall be kept as free of all undesirable plant species designated to be noxious weeds as practicable. Noble Energy or contractor will conduct daily visual inspections for weeds.

Reclamation Monitoring, Inspection, Maintenance, and Reporting

Regular monitoring of reclaimed areas will be conducted by a qualified consultant to assess the success of reclamation activities and identify any corrective actions required to achieve success. Any corrective actions recommended by the consultant will be communicated with the appropriate Noble Energy personnel who will implement the corrective actions and track the status of completion of such actions. Corrective actions may include, but not be limited to, control of weeds and other undesired vegetation, recommendations for soil amendments or additional seeding, and erosion control. The regular

monitoring will include qualitative assessments of revegetation success until such time the consultant believes that revegetation has met the appropriate State and/or Federal standards. At that time, the consultant will utilize an appropriate quantitative method for determining revegetation success.

Interim Reclamation Completion Notice

Noble Energy will submit a Form 4 Sundry Notice describe reclamation procedures, associated mitigation measures, changes to final land use, and the total cover of live perennial vegetation to evaluate the success of interim reclamation.

Site-Specific BMPs

The following is a list of site-specific BMPs related to Noble Energy's interim reclamation approach at the A18-09 Pad location, for areas that will be reclaimed and not used for continuing oil and gas operations:

- Compaction alleviation – compacted soils and areas of the location impacted by construction will be ripped to a minimum depth of 18 inches prior to topsoil replacement. Decompaction will be performed by a parabolic Ag style ripper capable of fracturing the soil ensuring soil layers are not mixed. Proper decompaction will allow for greater water infiltration and promote vegetation growth.
- Culvert – culverts are a means of subsurface storm water conveyance where surface transport is not feasible. Culverts are most often used to convey water under a roadway without impeding use of the road.
- Culvert protection - culvert protection may be required at the inlet (upstream side) of the culvert and/or the outlet (downstream side) of the culvert. Protection helps to reduce erosion from culverts with concentrated, high velocity flows.
- Erosion control – seed/mulch application functions as erosion control during initial reclamation efforts until adequate vegetation establishment on areas not returned to farming, at which point the reclamation will be deemed final stabilized. The interim working pad will be stabilized against potential erosion for the long-term with surface armoring.
- Fencing – Noble Energy may fence reclaimed areas until interim reclamation has been achieved in order to ensure vegetation growth is not overgrazed if such fencing does not interfere with the landowner's farming operations. Fence types are to be determined by Noble Energy and the landowner to adequately prevent livestock from entering reclaimed areas. Fencing to be installed after seed/mulch application.
- Grading – Grading involves reshaping the ground surface to planned grades. Grading provides more suitable topography for well pads and pipelines and helps to control runoff, soil erosion, and sediment during and after construction in these areas.
- Mulching – mulching is a temporary erosion control used to stabilize exposed soils while waiting for vegetation to establish. Mulch protects soils from rain impacts and wind erosion, increases infiltration, and helps regulate soil temperatures. Typically, agricultural straw or hay is mechanically applied and crimped in or wood splinters/fibers are surface applied by hand or machinery. Tackifiers may be sprayed over the applied mulch to enhance stabilization.
- Placement of soil – any subsoil used during interim reclamation is applied first, followed by top soil, in order to ensure that topsoil is not contaminated or adulterated and to ensure optimum germination efforts.
- Packing of soil layers – if multiple soil layers are applied during interim reclamation, each soil layer is packed separately and sequentially.

- Recontouring – documenting the existing topography and natural drainages and the site prior to disturbance, and reestablishing the topography and contours on the reclamation to pre-disturbance conditions.
- Routine inspections – Noble Energy, and/or third-party contractors, conduct a number of routine and regularly scheduled inspections during which the reclamation and general site conditions are inspected and monitored.
- Seedbed preparation – after decompaction, recontouring, and topsoil application, the top 3- 4 inches of soil will be prepared for seed application using a high-speed disk and/or a mulcher as needed. Seedbed will be void of earthen clods and firm enough to keep seed from being applied too deeply. Soil samples will be collected and analyzed prior to seed application to identify any amendments needed. Compost and fertilizer will be applied based on current site conditions and on an as needed basis. Portions of the location that will be returned to farming operations will be prepared in accordance with the landowner's direction.
- Seeding – seeding, to establish perennial vegetative cover following construction, is the best long term stabilization control for areas not stabilized with other permanent controls (pavement, concrete, road base, etc.). Establishing perennial vegetation stabilizes the soil, reduces wind and water erosion, minimizes sheet flow, increases infiltration, and reduces overall runoff volumes. Seeding can be used to establish temporary stabilization when dirt moving activities have ceased and will not resume for an extended period of time, or as a final stabilization technique as part of the reclamation plan for a site. Seeding of portions of the location that will be returned to farming operations will be seeded by the landowner at the appropriate time.
- Seed mix – the seed mix for reclaimed areas that will not be returned to farming operations will be selected in coordination with the landowner and/or the NRCS.
- Stockpile management – stockpile management is the protection of stockpiled erodible materials through structural and nonstructural practices.
- Surface armor – surface armor is a combination of various materials (e.g., clay, concrete, dirt, rock, etc.) used to stabilize a surface on location where erosion could occur. The armor reduces erosion caused by runoff and/or raindrop impact and provides a stable working surface for various construction related activities. Surface armor is often utilized throughout the life of a location and can be incorporated on access roads, tank battery locations, and well head locations.
- Timing of reclamation – seeding of areas not returned to farming will occur during interim reclamation – after compaction alleviation, topsoil application, recontouring, and seedbed preparation, and will be conducted during a spring or fall planting window to achieve maximum germination rates. Timing of seeding of areas to be returned to farming will be determined by the landowner.
- Topsoil salvage – the salvage and proper handling of topsoil is one of the keys to reclamation success. Topsoil is vital for the revegetation of disturbed areas following final grading.
- Training – employee training on spill prevention, stormwater, and associated practices and procedures is essential to ensuring that everyone has the knowledge needed to follow appropriate steps and be able to minimize potential impacts resulting from stormwater related incidents.
- Weed control – invasive plants will be managed by performing a site assessment during the spring and upon completion of the first growing season after interim reclamation. This assessment will identify and inventory any/all invasive plants on the location. The assessment will include GPS coordinates and maps detailing the location of the invasive plants. Management will be performed by either mowing or spraying and in some rare occasions both

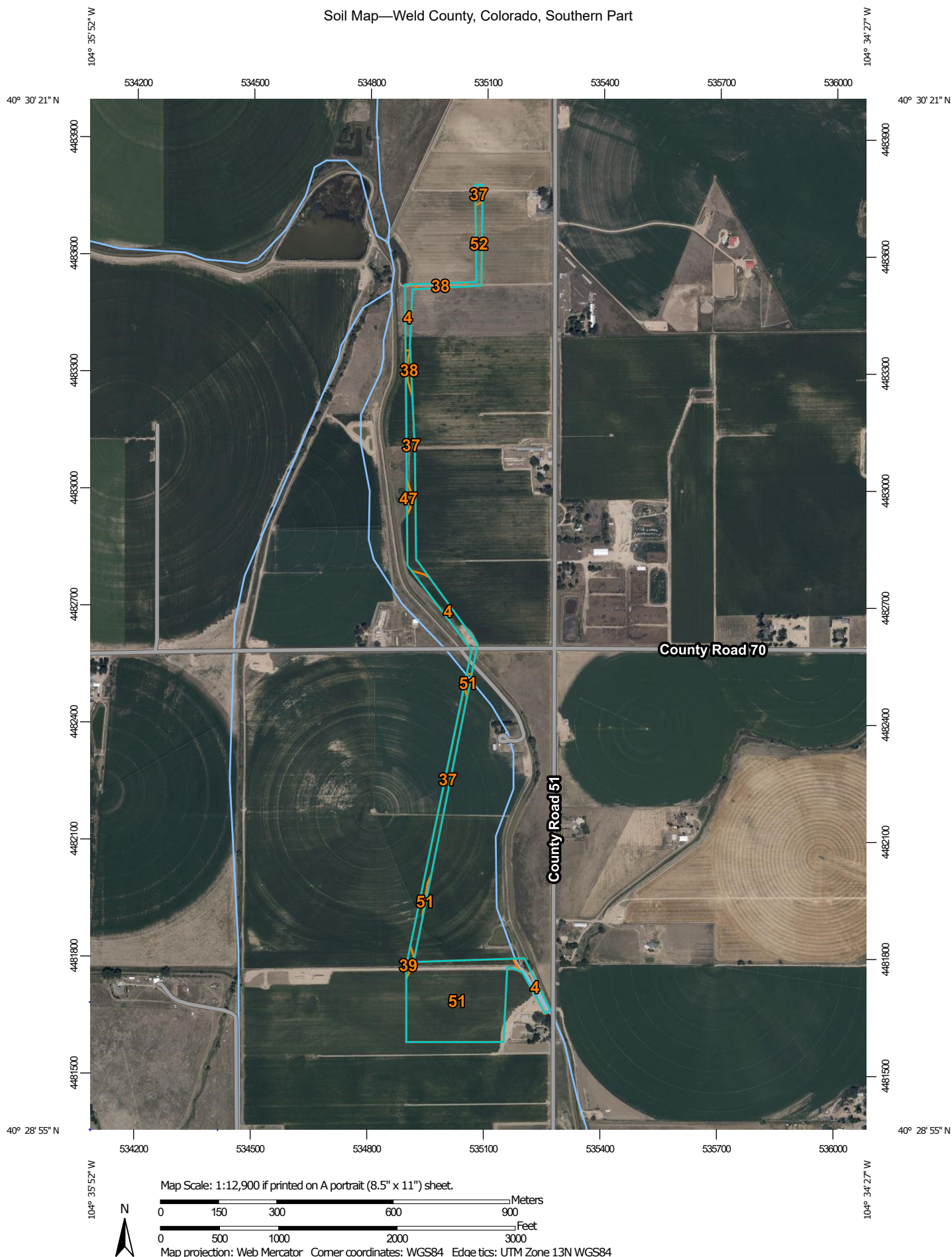
methods may be necessary. Any spraying conducted will be coordinated with the landowner to not impact crops. Routine inspections throughout the life of the pad will also aid in identifying when weed mitigation is needed.

Article IV. Exhibits/References/Appendices

NRCS Soil Details

Relevant Layout Drawings

Soil Map—Weld County, Colorado, Southern Part



**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

9/15/2021
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MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 19, Jun 5, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 19, 2018—Aug 10, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
4	Aquolls and Aquepts, flooded	3.1	13.1%
37	Nelson fine sandy loam, 0 to 3 percent slopes	5.1	21.8%
38	Nelson fine sandy loam, 3 to 9 percent slopes	0.6	2.4%
39	Nunn loam, 0 to 1 percent slopes	0.2	0.9%
47	Olney fine sandy loam, 1 to 3 percent slopes	0.2	0.7%
51	Otero sandy loam, 1 to 3 percent slopes	13.5	57.4%
52	Otero sandy loam, 3 to 5 percent slopes	0.9	3.7%
Totals for Area of Interest		23.5	100.0%

Weld County, Colorado, Southern Part

4—Aquolls and Aquepts, flooded

Map Unit Setting

National map unit symbol: 362l

Elevation: 3,600 to 4,700 feet

Mean annual precipitation: 12 to 16 inches

Mean annual air temperature: 50 to 55 degrees F

Frost-free period: 100 to 165 days

Farmland classification: Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

Map Unit Composition

Aquolls and similar soils: 55 percent

Aquepts, flooded, and similar soils: 25 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Aquolls

Setting

Landform: Drainageways, plains, depressions

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Recent alluvium

Typical profile

H1 - 0 to 8 inches: variable

H2 - 8 to 60 inches: stratified sandy loam to clay

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to high (0.06 to 6.00 in/hr)

Depth to water table: About 6 to 36 inches

Frequency of flooding: FrequentNone

Frequency of ponding: None

Calcium carbonate, maximum content: 10 percent

Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)

Sodium adsorption ratio, maximum: 5.0

Available water capacity: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): 6w

Land capability classification (nonirrigated): 6w

Hydrologic Soil Group: D
Ecological site: R067BY035CO - Salt Meadow
Hydric soil rating: Yes

Description of Aquepts, Flooded

Setting

Landform: Stream terraces
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Recent alluvium

Typical profile

H1 - 0 to 8 inches: variable
H2 - 8 to 60 inches: stratified sandy loam to clay

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.06 to 6.00 in/hr)
Depth to water table: About 6 to 36 inches
Frequency of flooding: FrequentNone
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 5.0
Available water capacity: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): 6w
Land capability classification (nonirrigated): 6w
Hydrologic Soil Group: D
Ecological site: R067BY038CO - Wet Meadow
Hydric soil rating: Yes

Minor Components

Haverson

Percent of map unit: 10 percent
Hydric soil rating: No

Thedalund

Percent of map unit: 10 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part
Survey Area Data: Version 19, Jun 5, 2020

Weld County, Colorado, Southern Part

37—Nelson fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 362h

Elevation: 4,800 to 5,050 feet

Mean annual precipitation: 13 to 15 inches

Mean annual air temperature: 48 to 57 degrees F

Frost-free period: 145 to 190 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Nelson and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Nelson

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Residuum weathered from sandstone

Typical profile

H1 - 0 to 9 inches: fine sandy loam

H2 - 9 to 30 inches: fine sandy loam

H3 - 30 to 34 inches: weathered bedrock

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to paralithic bedrock

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to high (0.06 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 10 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water capacity: Low (about 3.7 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: B

Ecological site: R067BY024CO - Sandy Plains

Hydric soil rating: No

Minor Components

Thedalund

Percent of map unit: 10 percent

Hydric soil rating: No

Olney

Percent of map unit: 5 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 19, Jun 5, 2020

Weld County, Colorado, Southern Part

38—Nelson fine sandy loam, 3 to 9 percent slopes

Map Unit Setting

National map unit symbol: 362j

Elevation: 4,800 to 5,050 feet

Mean annual precipitation: 13 to 15 inches

Mean annual air temperature: 48 to 57 degrees F

Frost-free period: 145 to 190 days

Farmland classification: Farmland of local importance

Map Unit Composition

Nelson and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Nelson

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Residuum weathered from sandstone

Typical profile

H1 - 0 to 9 inches: fine sandy loam

H2 - 9 to 30 inches: fine sandy loam

H3 - 30 to 34 inches: weathered bedrock

Properties and qualities

Slope: 3 to 9 percent

Depth to restrictive feature: 20 to 40 inches to paralithic bedrock

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to high (0.06 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 10 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: Low (about 3.7 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: B

Ecological site: R067BY024CO - Sandy Plains

Hydric soil rating: No

Minor Components

Thedalund

Percent of map unit: 10 percent

Hydric soil rating: No

Terry

Percent of map unit: 5 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 19, Jun 5, 2020

Weld County, Colorado, Southern Part

39—Nunn loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2tln3

Elevation: 3,900 to 6,250 feet

Mean annual precipitation: 13 to 16 inches

Mean annual air temperature: 46 to 54 degrees F

Frost-free period: 135 to 160 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Nunn and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Nunn

Setting

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Pleistocene aged alluvium and/or eolian deposits

Typical profile

Ap - 0 to 6 inches: loam

Bt1 - 6 to 10 inches: clay loam

Bt2 - 10 to 26 inches: clay loam

Btk - 26 to 31 inches: clay loam

Bk1 - 31 to 47 inches: loam

Bk2 - 47 to 80 inches: loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat):

Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 7 percent

Salinity, maximum in profile: Nonsaline (0.1 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 0.5

Available water storage in profile: High (about 9.2 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 4c
Hydrologic Soil Group: C
Ecological site: Loamy Plains (R067BY002CO)
Hydric soil rating: No

Minor Components

Haverson, rarely flooded

Percent of map unit: 10 percent
Landform: Drainageways
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: Overflow (R067BY036CO)
Hydric soil rating: No

Heldt

Percent of map unit: 5 percent
Landform: Terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Clayey Plains (R067BY042CO)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part
Survey Area Data: Version 16, Oct 10, 2017

Weld County, Colorado, Southern Part

47—Olney fine sandy loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 362v

Elevation: 4,600 to 5,200 feet

Mean annual precipitation: 11 to 15 inches

Mean annual air temperature: 46 to 54 degrees F

Frost-free period: 125 to 175 days

Farmland classification: Prime farmland if irrigated and the product of
I (soil erodibility) x C (climate factor) does not exceed 60

Map Unit Composition

Olney and similar soils: 85 percent

Minor components: 15 percent

*Estimates are based on observations, descriptions, and transects of
the mapunit.*

Description of Olney

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Mixed deposit outwash

Typical profile

H1 - 0 to 10 inches: fine sandy loam

H2 - 10 to 20 inches: sandy clay loam

H3 - 20 to 25 inches: sandy clay loam

H4 - 25 to 60 inches: fine sandy loam

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0
mmhos/cm)

Available water capacity: Moderate (about 7.0 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 4c

Hydrologic Soil Group: B

Ecological site: R067BY024CO - Sandy Plains

Hydric soil rating: No

Minor Components

Zigweid

Percent of map unit: 10 percent

Hydric soil rating: No

Vona

Percent of map unit: 5 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 19, Jun 5, 2020

Weld County, Colorado, Southern Part

51—Otero sandy loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 3630

Elevation: 4,700 to 5,250 feet

Mean annual precipitation: 12 to 15 inches

Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 130 to 180 days

Farmland classification: Prime farmland if irrigated and the product of
I (soil erodibility) x C (climate factor) does not exceed 60

Map Unit Composition

Otero and similar soils: 85 percent

Minor components: 15 percent

*Estimates are based on observations, descriptions, and transects of
the mapunit.*

Description of Otero

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits and/or mixed outwash

Typical profile

H1 - 0 to 12 inches: sandy loam

H2 - 12 to 60 inches: fine sandy loam

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 10 percent

Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0
mmhos/cm)

Available water capacity: Moderate (about 7.7 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: A

Ecological site: R067BY024CO - Sandy Plains

Hydric soil rating: No

Minor Components

Kim

Percent of map unit: 10 percent

Hydric soil rating: No

Vona

Percent of map unit: 5 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 19, Jun 5, 2020

Weld County, Colorado, Southern Part

52—Otero sandy loam, 3 to 5 percent slopes

Map Unit Setting

National map unit symbol: 3631

Elevation: 4,700 to 5,250 feet

Mean annual precipitation: 12 to 15 inches

Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 130 to 180 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Otero and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Otero

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits and/or mixed outwash

Typical profile

H1 - 0 to 12 inches: sandy loam

H2 - 12 to 60 inches: fine sandy loam

Properties and qualities

Slope: 3 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 10 percent

Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Available water capacity: Moderate (about 7.7 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: A

Ecological site: R067BY024CO - Sandy Plains

Hydric soil rating: No

Minor Components

Kim

Percent of map unit: 12 percent

Hydric soil rating: No

Vona

Percent of map unit: 3 percent

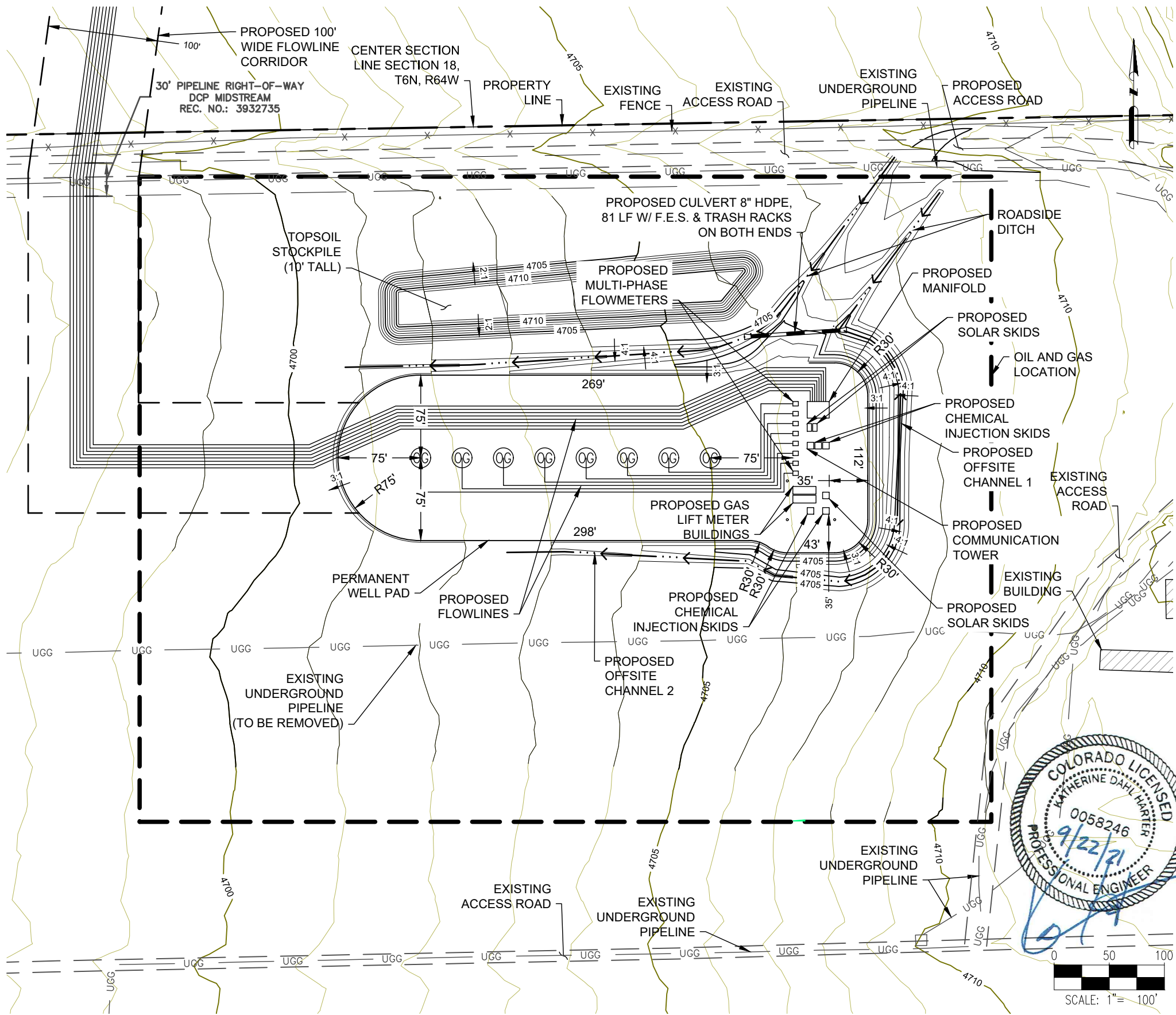
Hydric soil rating: No

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Soil Survey Area: Weld County, Colorado, Southern Part

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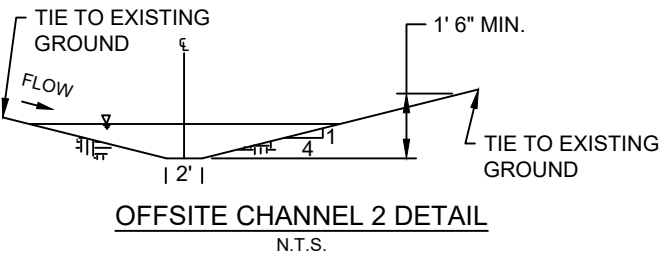
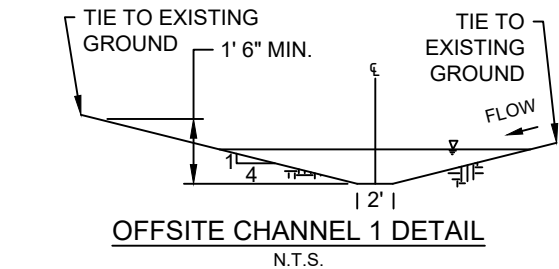
A18-09 PAD
GRADING PLAN



SITE QUANTITIES

TOTAL CUT FOR SITE (BANK)	11,406 CY
TOTAL FILL FOR SITE	11,386 CY
NET EXCESS MATERIAL (BANK)	20 CY
RECLAIMED AREA	7.4 ACRES
PERMANENT DISTURBANCE AREA	3.0 ACRES
OIL AND GAS LOCATION AREA	10.4 ACRES

- NOTES:
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8620 WOLFF COURT
WESTMINSTER, CO 80031
(303) 928-7128

PREPARED FOR:

NOBLE ENERGY, INC.
1625 BROADWAY, SUITE 2200
DENVER, CO 80202
(303) 228-4000

SHEET NAME:

INTERIM - RECLAMATION LAYOUT

SURFACE LOCATION

A18-09 PAD
NE 1/4 SE 1/4 SECTION 18,
T6N, R64W, 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	ISSUED FOR CONSTRUCTION	INT.	AMS
0	09/22/21				

FIELD DATE:

04-15-2019

DRAWING DATE:

07-30-2021

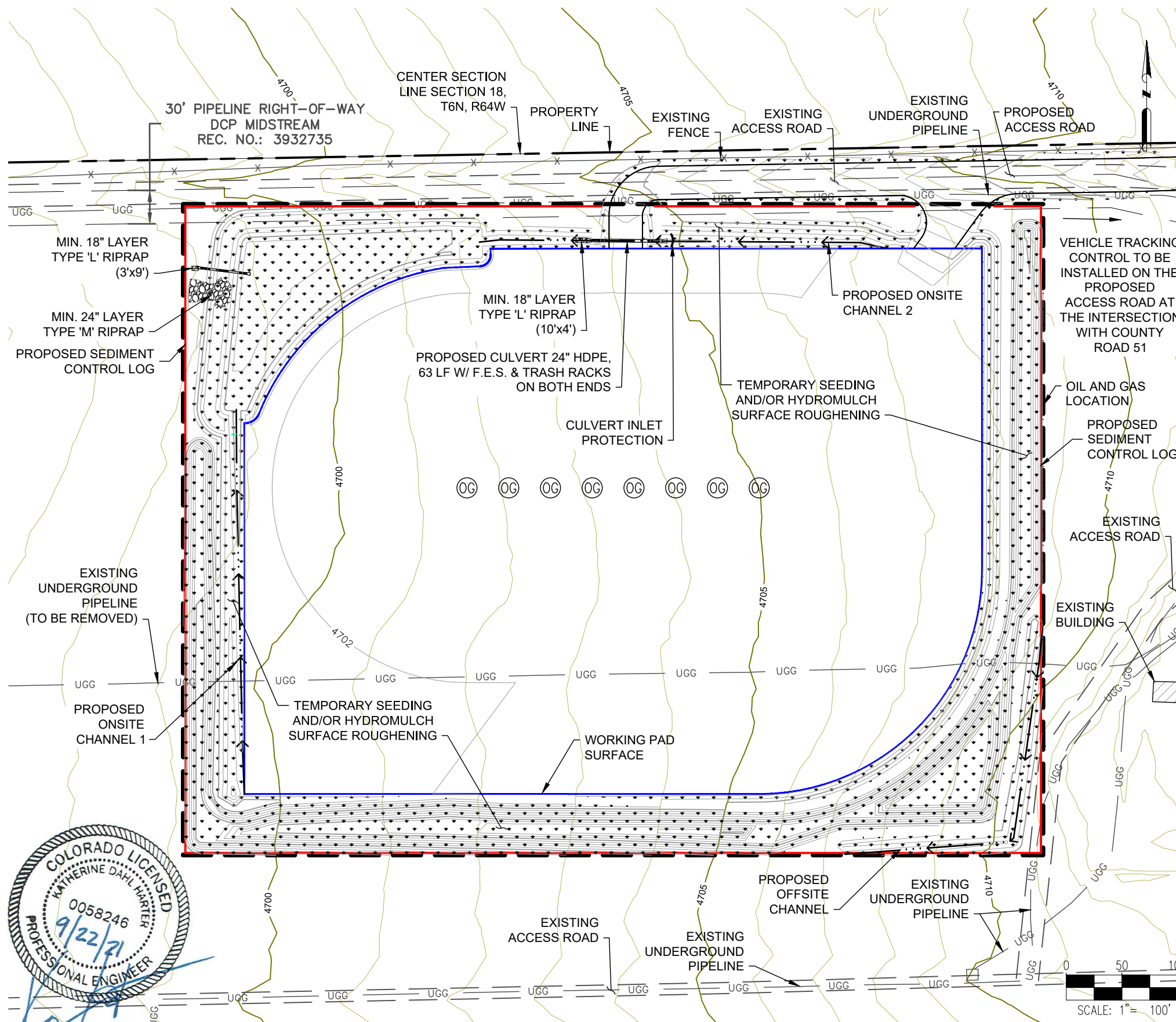
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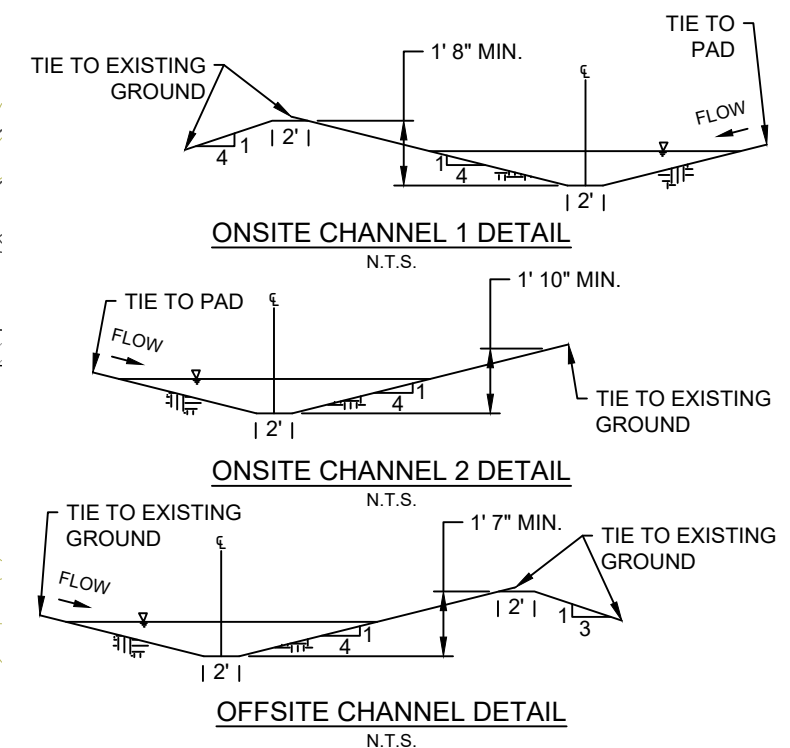
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A18-09 PAD
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8620 WOLFF COURT
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(303) 928-7128

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DENVER, CO 80202
(303) 228-4000

ON & SEDIMENT CONTROL PLAN - INTERIM

SHEET NO. 10

SURFACE LOCATION

A18-09 PAD

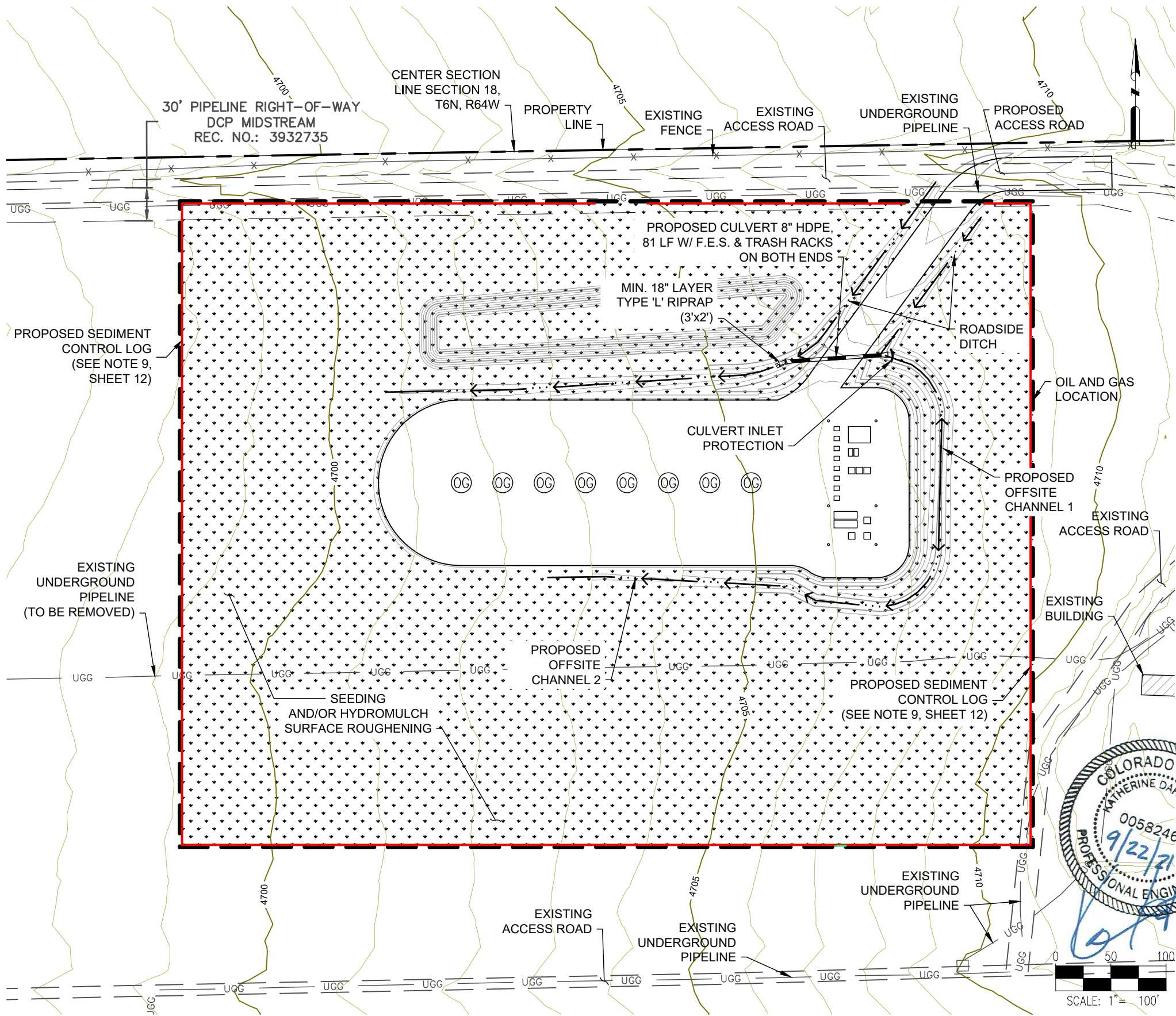
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T6N, R64W, 6TH P.M.

WELD COUNTY, COLORADO

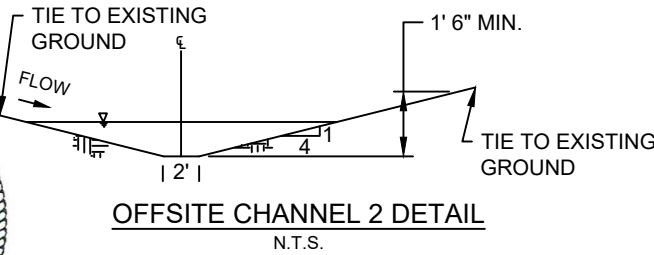
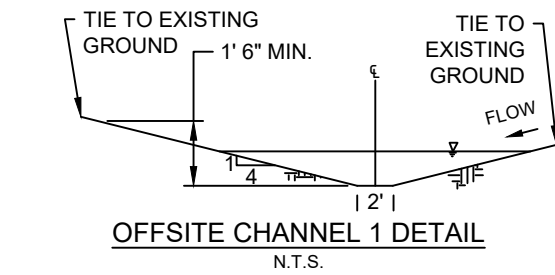
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SHEET NO.	10 OF 15

A18-09 PAD
GRADING PLAN



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EROSION & SEDIMENT CONTROL PLAN - FINAL

SURFACE LOCATION

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NE 1/4 SE 1/4 SECTION 18,
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WELD COUNTY, COLORADO

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