

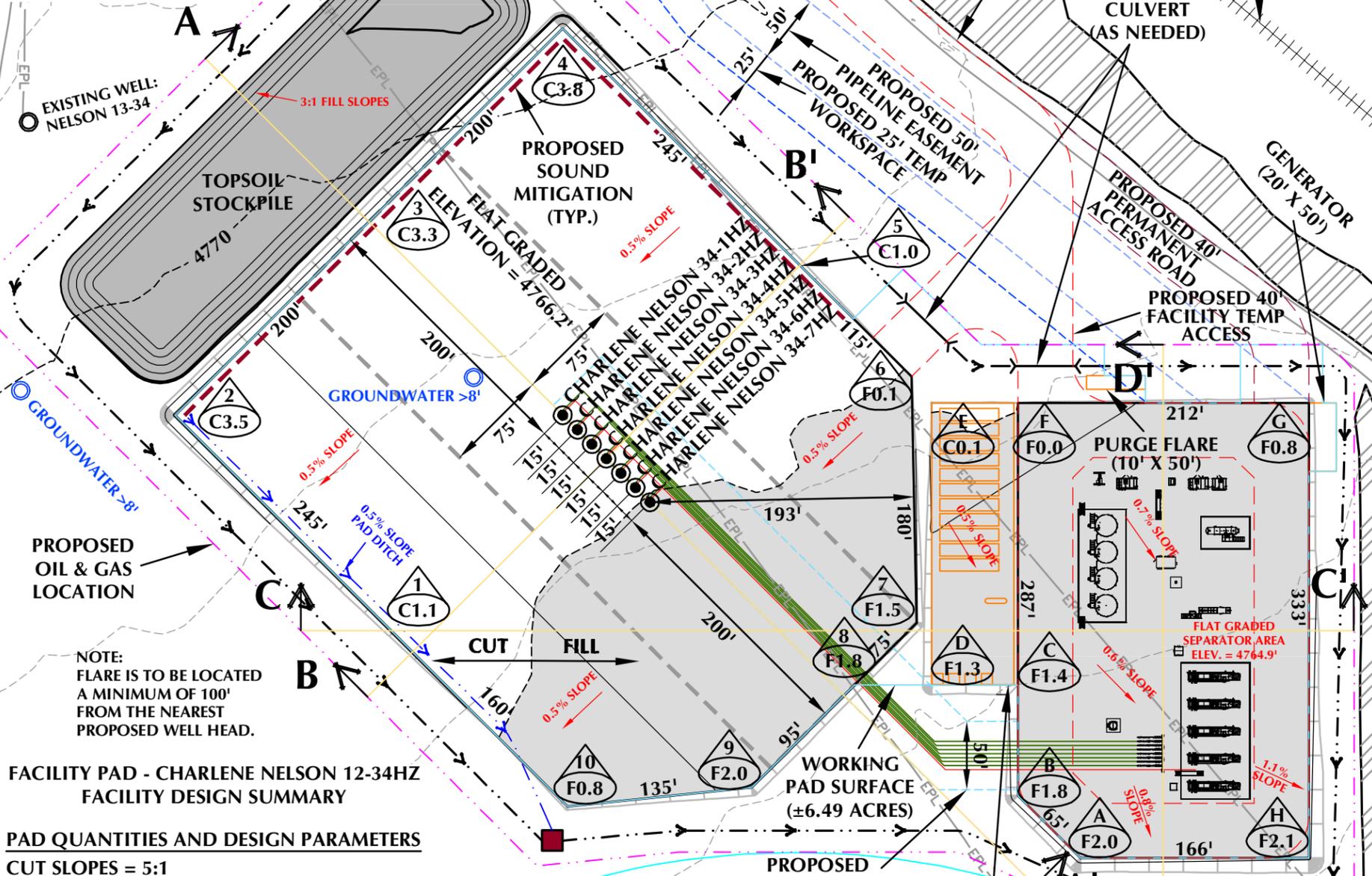
**TEMPORARY EQUIPMENT PAD - CHARLENE NELSON 12-34HZ
PAD DESIGN SUMMARY**

PAD QUANTITIES AND DESIGN PARAMETERS

CUT SLOPES = 5:1
 FILL SLOPES = 5:1
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00
 GRADED PAD AREA = 0.28 ACRES
 TOTAL PAD AREA = 0.31 ACRES

PAD QUANTITIES

TOTAL CUT FOR PAD = 0 C.Y.
 TOTAL FILL FOR PAD = 841 C.Y.
 TOPSOIL @ 10" DEPTH = 416 C.Y.
 IMPORT MATERIAL = 841 C.Y.



**FACILITY PAD - CHARLENE NELSON 12-34HZ
FACILITY DESIGN SUMMARY**

PAD QUANTITIES AND DESIGN PARAMETERS

CUT SLOPES = 5:1
 FILL SLOPES = 5:1
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00
 FACILITY PAD WORKING PAD SURFACE = 1.60 ACRES
 TOTAL PAD AREA = 1.75 ACRES

PAD QUANTITIES

TOTAL CUT FOR PAD = 0 C.Y.
 TOTAL FILL FOR PAD = 5,980 C.Y.
 TOPSOIL @ 10" DEPTH = 2,351 C.Y.
 IMPORT MATERIAL = 5,980 C.Y.

WELL NAME:	C/F
CHARLENE NELSON 34-1HZ	C0.9
CHARLENE NELSON 34-2HZ	C0.5
CHARLENE NELSON 34-3HZ	C0.6
CHARLENE NELSON 34-4HZ	C0.5
CHARLENE NELSON 34-5HZ	C0.4
CHARLENE NELSON 34-6HZ	C0.1
CHARLENE NELSON 34-7HZ	F0.2

- NOTE:**
- PIPELINE AND UTILITY CORRIDORS ARE PLANNED AND DETERMINED BY THIRD PARTY COMPANIES. SPECIFIC PIPELINE AND UTILITY CORRIDOR LOCATIONS WILL BE DECIDED BY THOSE THIRD PARTY COMPANIES CLOSER TO THE START DATE OF OPERATIONS BASED ON CONTRACT AND RIGHT-OF-WAY NEGOTIATIONS.
 - EXISTING UTILITIES DISPLAYED ON THE GRADING PLAN ARE FOR REFERENCE PURPOSES ONLY. PRIOR TO CONSTRUCTION OR EARTHWORK, CONTRACTOR WILL BE RESPONSIBLE TO CALL FOR LOCATES: (800) 922-1987
 - DIVERSION DITCH AND/OR BERM TO BE CONSTRUCTED AROUND THE ENTIRE PAD LOCATION. BERM SECTIONS TO BE COMPACTED IN ACCORDANCE WITH STANDARD CONSTRUCTION PRACTICES.
 - CENTER OF WELL PAD REFERENCED BELOW CORRESPONDS TO THE SURFACE LOCATION OF THE CHARLENE NELSON 34-4HZ WELL.
 - FLAT GRADED AREA TO BE RECLAIMED DURING INTERIM RECLAMATION.

POINT NUMBER	EXISTING GRADE	FINISHED GRADE
A	4762.7	4764.7
B	4763.2	4765.0
C	4764.0	4765.4
D	4764.2	4765.5
E	4766.5	4766.4
F	4766.2	4766.2
G	4764.9	4765.7
H	4762.2	4764.3

CHARLENE NELSON 12-34HZ CONSTRUCTION LAYOUT DRAWING - PLAN VIEW

WELL PAD QUANTITIES AND DESIGN PARAMETERS
 EXISTING GRADE @ CENTER OF WELL PAD = 4766.7'
 FINISHED GRADE ELEVATION = 4766.2'
 CUT SLOPES = 3:1
 FILL SLOPES = 3:1
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00
 WELL PAD WORKING PAD SURFACE = 4.21 ACRES
 TOTAL WELL PAD AREA = 4.45 ACRES
 PROPOSED OIL & GAS LOCATION = 10.47 ACRES

WELL PAD QUANTITIES
 TOTAL CUT FOR WELL PAD = 4,601 C.Y.
 TOTAL FILL FOR WELL PAD = 4,601 C.Y.
 TOPSOIL @ 10" DEPTH = 5,979 C.Y.
 IMPORT MATERIAL = 0 C.Y.

LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- EPL - EXISTING PIPELINE
- PROPOSED PIPELINE
- EXISTING FENCE
- PROPOSED UNDERGROUND ELECTRIC LINE
- DIVERSION DITCH AND/OR BERM

SCALE: 1"=100'
DATE: 9/3/21
SHEET NO: 1 OF 1

CHARLENE NELSON 12-34HZ
 CONSTRUCTION LAYOUT DRAWING - PLAN VIEW
 CHARLENE NELSON 34-1HZ,
 CHARLENE NELSON 34-2HZ, CHARLENE NELSON 34-3HZ,
 CHARLENE NELSON 34-4HZ, CHARLENE NELSON 34-5HZ,
 CHARLENE NELSON 34-6HZ & CHARLENE NELSON 34-7HZ
 LOCATED IN SECTION 34, T5N, R67W, 6TH P.M.
 WELD COUNTY, COLORADO

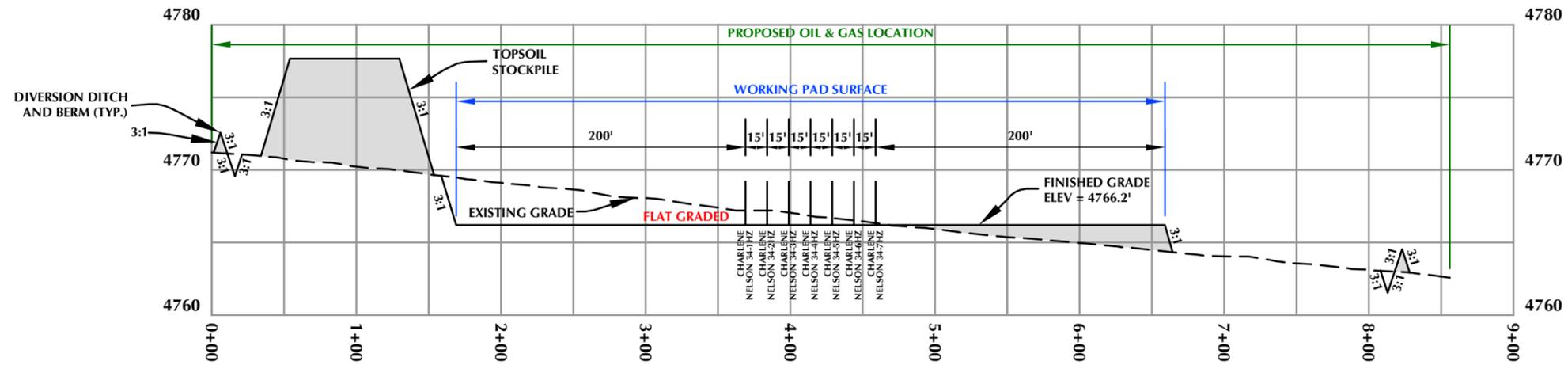
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 1099 18th Street
 Denver, Colorado 80202

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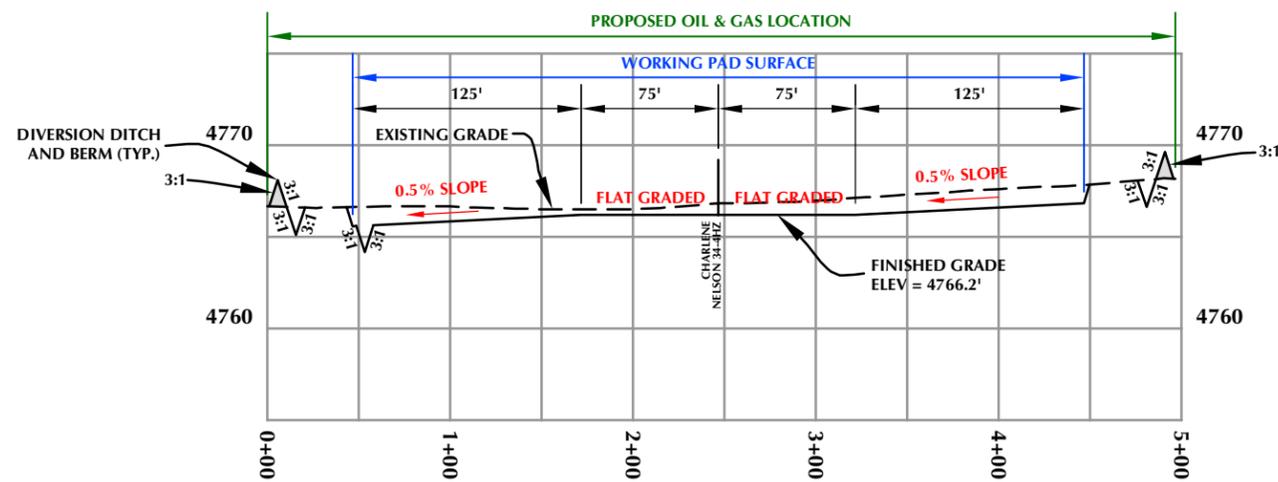
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SHERIDAN OFFICE
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CROSS SECTION A-A'



CROSS SECTION B-B'

CHARLENE NELSON 12-34HZ

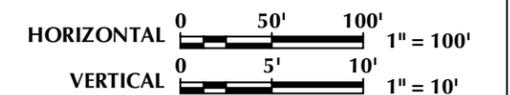
CHARLENE NELSON 34-1HZ,
CHARLENE NELSON 34-2HZ, CHARLENE NELSON 34-3HZ,
CHARLENE NELSON 34-4HZ, CHARLENE NELSON 34-5HZ,
CHARLENE NELSON 34-6HZ & CHARLENE NELSON 34-7HZ
LOCATED IN SECTION 34, T5N, R67W, 6TH P.M.
WELD COUNTY, COLORADO

CONSTRUCTION LAYOUT DRAWING - CROSS SECTIONS

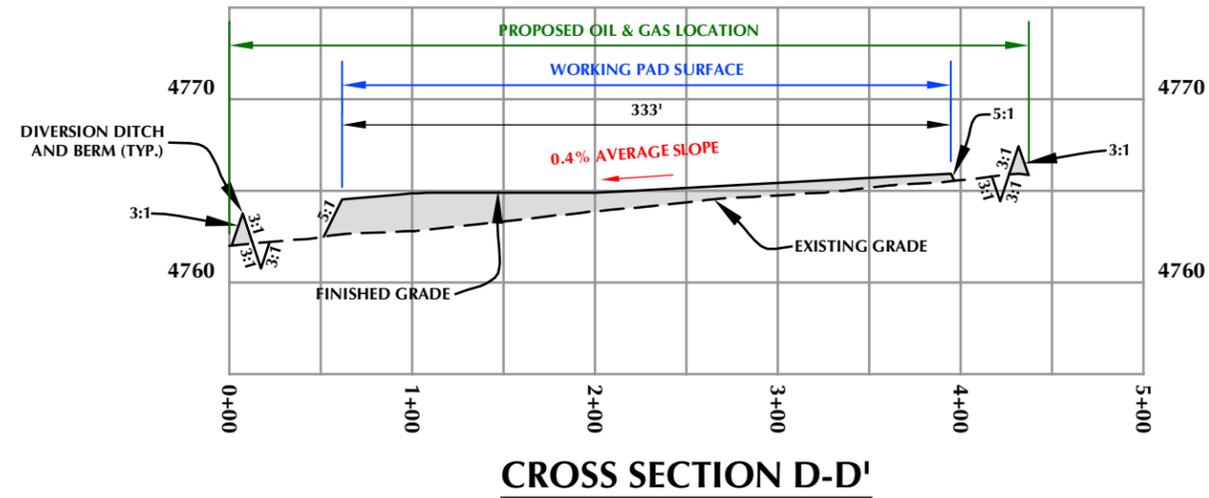
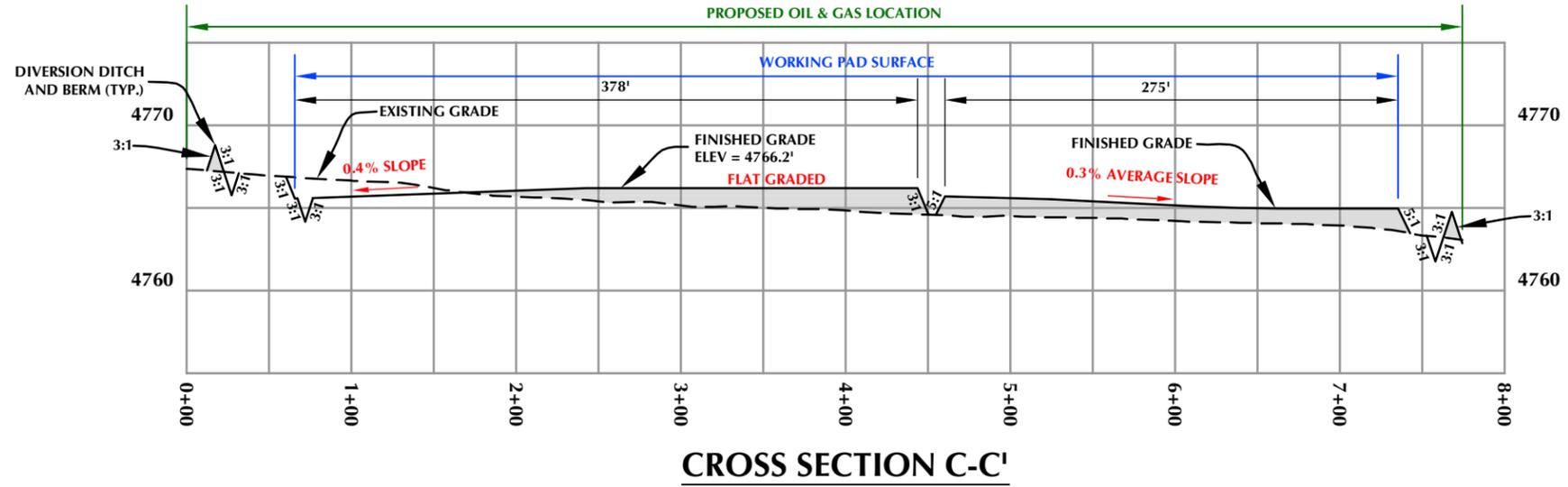
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SCALE: 1"=100'	DATE: 9/3/21	SHEET NO:
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CHARLENE NELSON 12-34HZ

CHARLENE NELSON 34-1HZ,
 CHARLENE NELSON 34-2HZ, CHARLENE NELSON 34-3HZ,
 CHARLENE NELSON 34-4HZ, CHARLENE NELSON 34-5HZ,
 CHARLENE NELSON 34-6HZ & CHARLENE NELSON 34-7HZ
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 WELD COUNTY, COLORADO

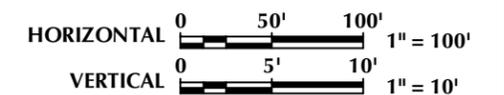
CONSTRUCTION LAYOUT DRAWING - CROSS SECTIONS

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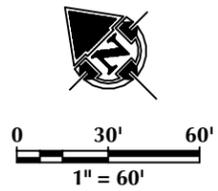
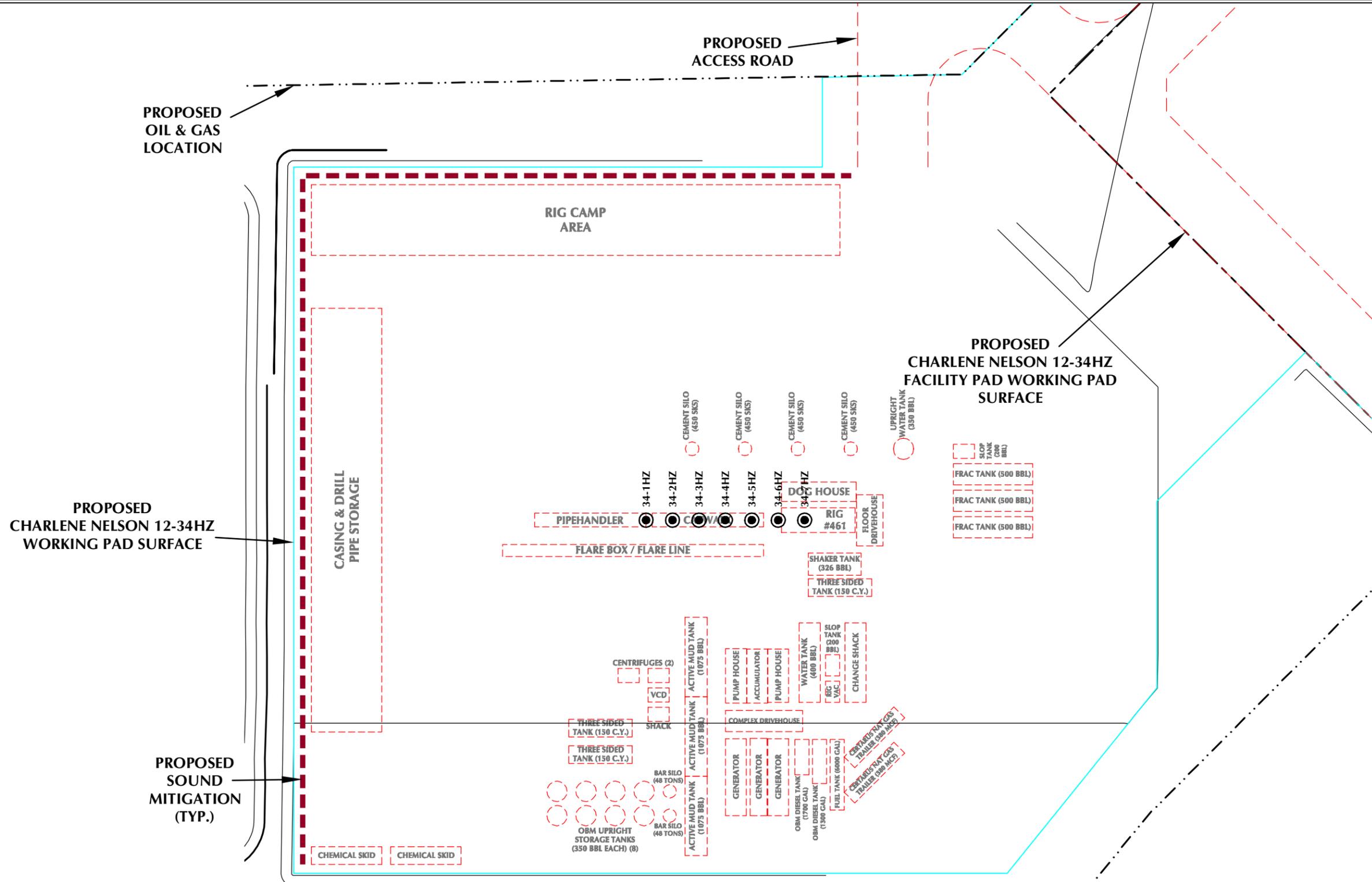
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PRELIMINARY RIG LAYOUT DRAWING
CHARLENE NELSON 12-34HZ
 SW1/4 SECTION 34, TOWNSHIP 5 NORTH, RANGE 67 WEST, 6TH P.M.



LEGEND

- PROPOSED WELL
- EXISTING WELL
- PROPOSED OIL & GAS LOCATION
- PROPOSED WORKING PAD SURFACE
- PROPOSED 2' CONTOUR

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DATE:	9/3/21
DRAFTER:	GLK
REVISED:	11/16/21

NOTES:

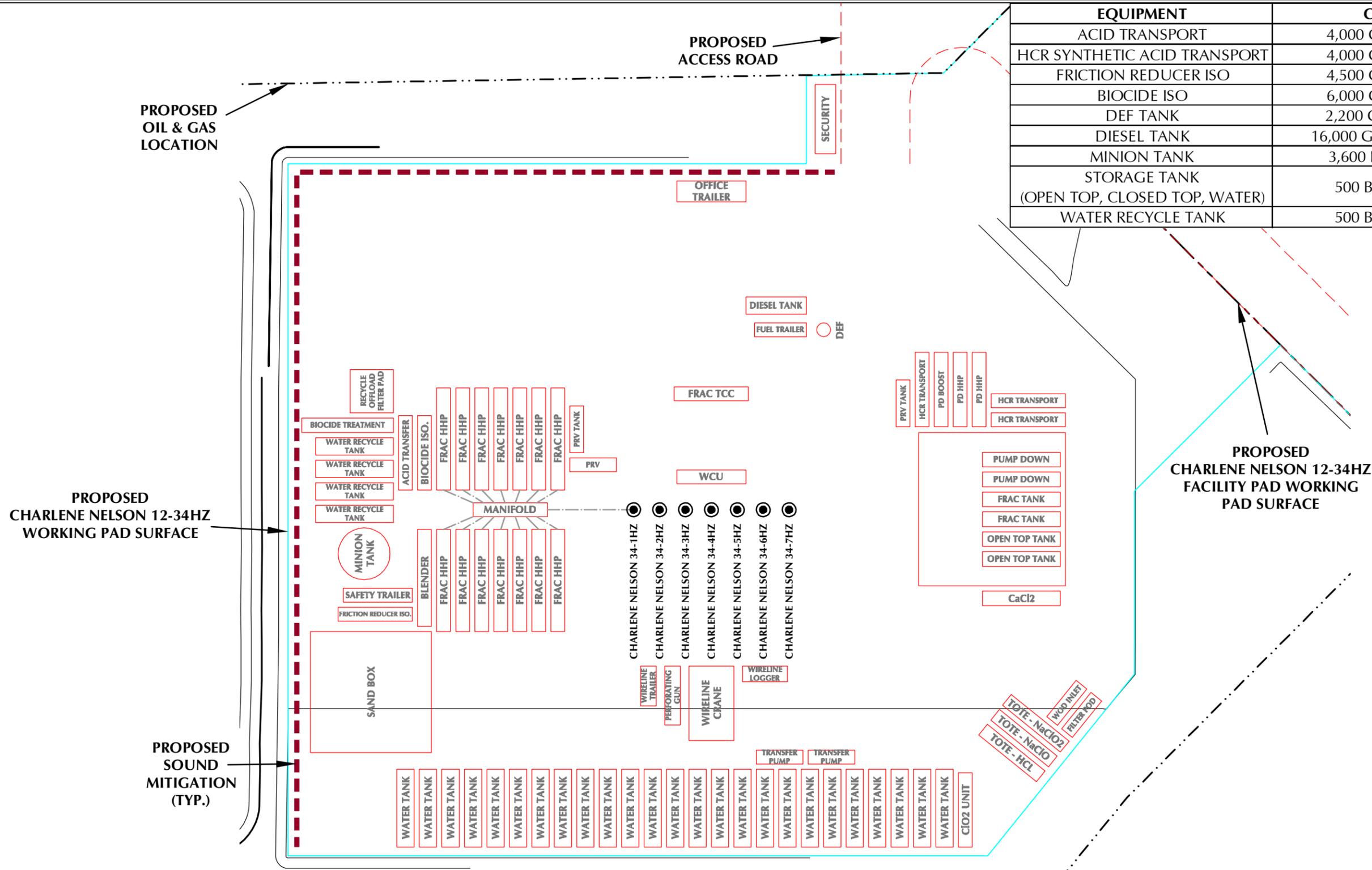
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PRELIMINARY WELL COMPLETION AND STIMULATION LAYOUT DRAWING

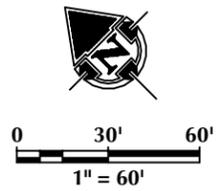
CHARLENE NELSON 12-34HZ

SW1/4 SECTION 34, TOWNSHIP 5 NORTH, RANGE 67 WEST, 6TH P.M.

EQUIPMENT	CAPACITY
ACID TRANSPORT	4,000 GAL CAPACITY
HCR SYNTHETIC ACID TRANSPORT	4,000 GAL CAPACITY
FRICTION REDUCER ISO	4,500 GAL CAPACITY
BIOCIDE ISO	6,000 GAL CAPACITY
DEF TANK	2,200 GAL DEF TANK
DIESEL TANK	16,000 GAL DIESEL TANK
MINION TANK	3,600 BBL CAPACITY
STORAGE TANK (OPEN TOP, CLOSED TOP, WATER)	500 BBL CAPACITY
WATER RECYCLE TANK	500 BBL CAPACITY



PROPOSED CHARLENE NELSON 12-34HZ FACILITY PAD WORKING PAD SURFACE



LEGEND

- PROPOSED WELL
- EXISTING WELL
- PROPOSED OIL & GAS LOCATION
- PROPOSED WORKING PAD SURFACE
- PROPOSED 2' CONTOUR

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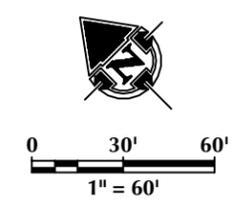
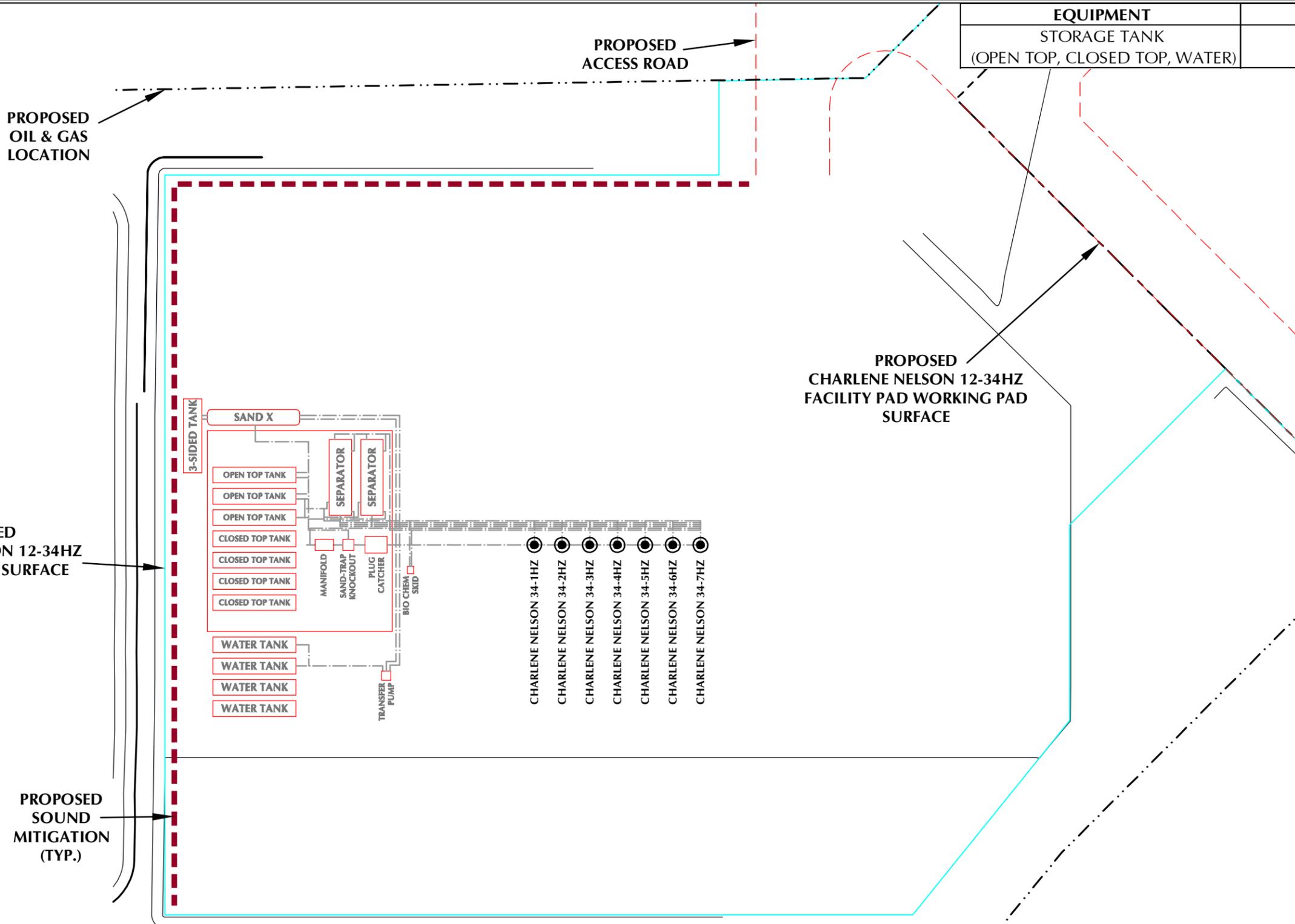
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PRELIMINARY FLOWBACK EQUIPMENT LAYOUT DRAWING

CHARLENE NELSON 12-34HZ

SW1/4 SECTION 34, TOWNSHIP 5 NORTH, RANGE 67 WEST, 6TH P.M.

EQUIPMENT	CAPACITY
STORAGE TANK (OPEN TOP, CLOSED TOP, WATER)	500 BBL CAPACITY



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LEGEND

- PROPOSED WELL
- EXISTING WELL
- PROPOSED OIL & GAS LOCATION
- PROPOSED WORKING PAD SURFACE
- PROPOSED 2' CONTOUR
- PROPOSED PIPELINE



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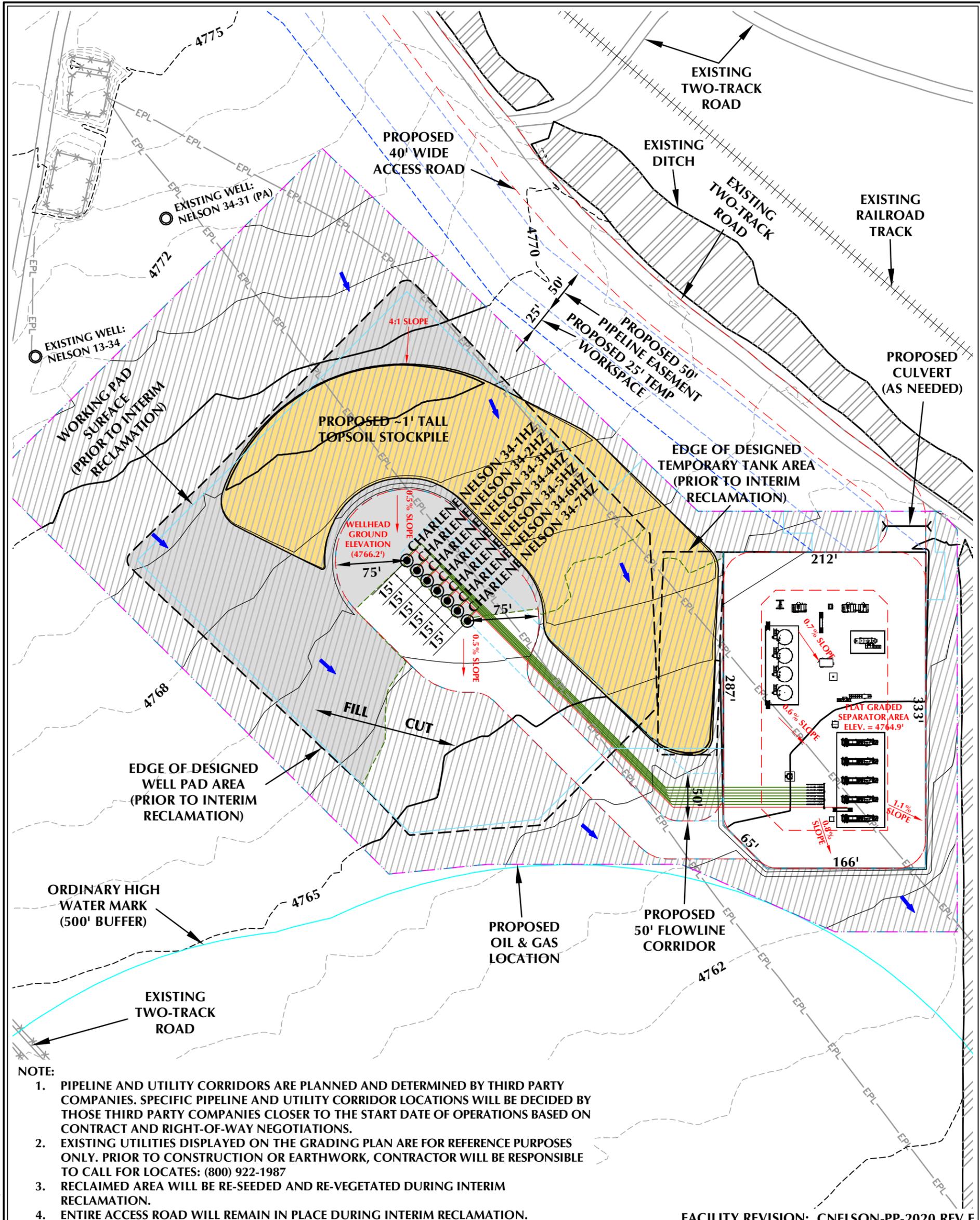
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NOTES:
-WELLHEADS WILL REMAIN PERMANENTLY AFTER FLOWBACK IS COMPLETE.
ALL OTHER EQUIPMENT DISPLAYED IS TEMPORARY AND WILL BE REMOVED FOLLOWING FLOWBACK OPERATIONS.



- NOTE:**
1. PIPELINE AND UTILITY CORRIDORS ARE PLANNED AND DETERMINED BY THIRD PARTY COMPANIES. SPECIFIC PIPELINE AND UTILITY CORRIDOR LOCATIONS WILL BE DECIDED BY THOSE THIRD PARTY COMPANIES CLOSER TO THE START DATE OF OPERATIONS BASED ON CONTRACT AND RIGHT-OF-WAY NEGOTIATIONS.
 2. EXISTING UTILITIES DISPLAYED ON THE GRADING PLAN ARE FOR REFERENCE PURPOSES ONLY. PRIOR TO CONSTRUCTION OR EARTHWORK, CONTRACTOR WILL BE RESPONSIBLE TO CALL FOR LOCATES: (800) 922-1987
 3. RECLAIMED AREA WILL BE RE-SEEDING AND RE-VEGETATED DURING INTERIM RECLAMATION.
 4. ENTIRE ACCESS ROAD WILL REMAIN IN PLACE DURING INTERIM RECLAMATION.

FACILITY REVISION: CNELSON-PP-2020 REV F

CHARLENE NELSON 12-34HZ FACILITY LAYOUT DRAWING

QUANTITIES AND DESIGN PARAMETERS
 SHRINKAGE FACTOR = 1.00
 SWELL FACTOR = 1.00
 PROPOSED OIL & GAS LOCATION = 10.47 ACRES
 ROUGHENING AND SEEDING/MULCHED AREA = 7.81 ACRES
 TOTAL WELL PAD AREA AFTER INTERIM RECLAMATION = 1.06 ACRES
 TOTAL FACILITY PAD AREA AFTER INTERIM RECLAMATION = 1.60 ACRES

WELL PAD QUANTITIES
 TOTAL CUT = 2,160 C.Y.
 TOTAL FILL = 2,160 C.Y.
 TOPSOIL @ 8" DEPTH FROM WELL PAD = 5,979 C.Y.
 TOPSOIL @ 8" DEPTH FROM FACILITY/TEMP TANK PAD = 2,767 C.Y.
 TOTAL TOPSOIL = 8,746 C.Y.
 TOPSOIL USED FOR INTERIM REC = 5,379 C.Y.
 TOPSOIL STORED FOR FINAL REC = 3,367 C.Y.

LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- EXISTING CONTOURS (1' INTERVAL)
- PROPOSED CONTOURS (1' INTERVAL)
- EPL
- EXISTING PIPELINE
- PROPOSED FLOWLINE
- EXISTING FENCE
- RECLAMATION AREA
- PLANNED FLOW DIRECTION

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SCALE: 1"=100' **DATE: 9/3/21** **SHEET NO: 1**

REVISIONS: **SRS 11/16/21** **1 OF 2**

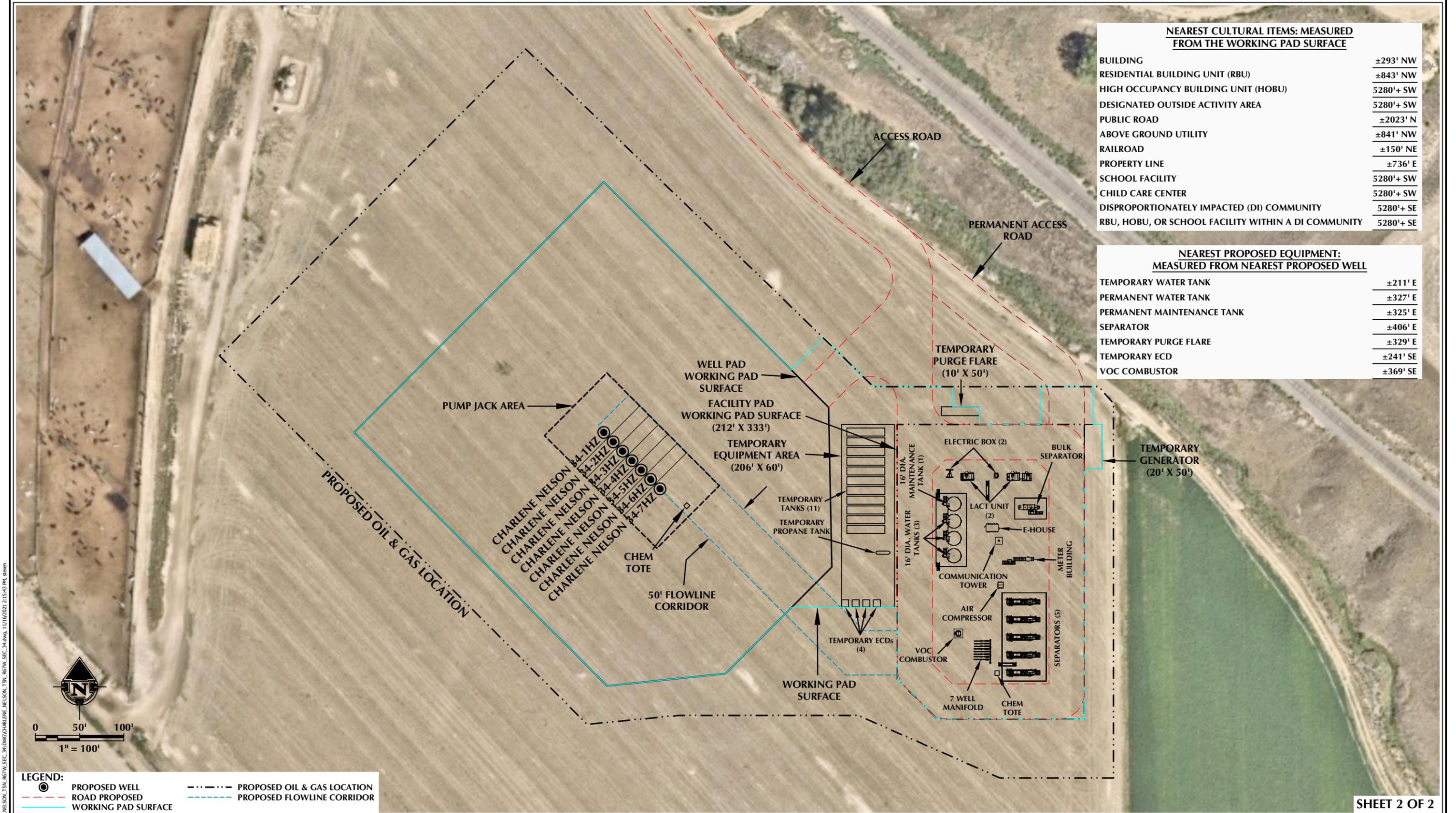
CHARLENE NELSON 12-34HZ

FACILITY LAYOUT DRAWING
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 CHARLENE NELSON 34-2HZ, CHARLENE NELSON 34-3HZ,
 CHARLENE NELSON 34-4HZ, CHARLENE NELSON 34-5HZ,
 CHARLENE NELSON 34-6HZ & CHARLENE NELSON 34-7HZ
 LOCATED IN SECTION 34, T5N, R67W, 6TH P.M.
 WELD COUNTY, COLORADO

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NEAREST CULTURAL ITEMS: MEASURED FROM THE WORKING PAD SURFACE

BUILDING	±293' NW
RESIDENTIAL BUILDING UNIT (RBU)	±843' NW
HIGH OCCUPANCY BUILDING UNIT (HOBU)	5280'+ SW
DESIGNATED OUTSIDE ACTIVITY AREA	5280'+ SW
PUBLIC ROAD	±2023' N
ABOVE GROUND UTILITY	±841' NW
RAILROAD	±150' NE
PROPERTY LINE	±736' E
SCHOOL FACILITY	5280'+ SW
CHILD CARE CENTER	5280'+ SW
DISPROPORTIONATELY IMPACTED (DI) COMMUNITY	5280'+ SE
RBU, HOBU, OR SCHOOL FACILITY WITHIN A DI COMMUNITY	5280'+ SE

NEAREST PROPOSED EQUIPMENT: MEASURED FROM NEAREST PROPOSED WELL

TEMPORARY WATER TANK	±211' E
PERMANENT WATER TANK	±327' E
PERMANENT MAINTENANCE TANK	±325' E
SEPARATOR	±406' E
TEMPORARY PURGE FLARE	±329' E
TEMPORARY ECD	±241' SE
VOC COMBUSTOR	±369' SE

LEGEND:

	PROPOSED WELL		PROPOSED OIL & GAS LOCATION
	ROAD PROPOSED		PROPOSED FLOWLINE CORRIDOR
	WORKING PAD SURFACE		

NOTES:

- EQUIPMENT PLACEMENT IS APPROXIMATE AND SUBJECT TO MINOR MODIFICATION DUE TO SPECIFIC CIRCUMSTANCES.
- FLOWLINE CORRIDOR IS APPROXIMATE AND SUBJECT TO MINOR MODIFICATION DUE TO SPECIFIC CIRCUMSTANCES.

FACILITY COORDINATES:
 LAT: 40.352962° LONG: -104.883234° (NAD83)

DATA SOURCES:
 - AERIAL COURTESY OF NEARMAP.

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FACILITY LAYOUT DRAWING
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