



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT
415 RICHARD JACKSON BOULEVARD, SUITE 411
PANAMA CITY BEACH, FLORIDA 32407

October 3, 2019

Regulatory Division
North Permits Branch
Panama City Permits Section

PUBLIC NOTICE

Permit Application No.SAJ-2019-02583

TO WHOM IT MAY CONCERN: The Jacksonville District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) as described below:

APPLICANT: Spooner Petroleum Company
ATTN: Mr. Michal Spooner
625 Highland Colony
Parkway Suite 101
Ridgeland, Mississippi 39157

WATERWAY AND LOCATION: The project would affect Waters of the United States associated with Petticamp Swamp. The project site is located north of Kemp Cemetery Road in Section 34, township 3 South, Range 11 West, Gulf County, Florida.

Directions to the site are as follows: From Panama City traveling east on Highway 98, turn left onto Highway 22 heading east towards Wewahitchka and turn left on Kemp Cemetery Road. The site is located approximately five miles from Kemp Cemetery road.

APPROXIMATE CENTRAL COORDINATES: Latitude: 30.17477°
Longitude: – 85.33187°

PROJECT PURPOSE:

Basic: Oil exploration infrastructure.

Overall: To construct a well pad for exploratory oil drilling in Gulf County, Florida.

EXISTING CONDITIONS: The project site consists of a 4.79-acre parcel comprised primarily of silviculture and associated surface water management features including an access road and ditch supporting the surrounding silviculture operations. The project parcel contains 1.98-acres of upland coniferous plantation, 0.04-acres of man-made ditch, 2.72-acres of hydric coniferous plantation, and 0.05 acres of unimproved road associated with the silviculture operation. The uplands are dominated by planted slash pine (*Pinus elliottii*), saw palmetto (*Serenoa repens*), wire grass (*Aristida stricta*), and tailed bracken (*Pteridium aquilinum*). The vegetation within the wetland portion of the site also includes planted slash pine, as well as, sweetbay (*Magnolia virginiana*), gallberry (*Ilex glabra*), coastal sweet pepperbush (*Clethra alnifolia*), titi (*Cyrilla monophylla*). The vegetation surrounding the project area is consistent with that found within the project area.

PROPOSED WORK: The proposed project consists of the construction of a 4.79-acre exploratory well pad facility utilizing a compacted No. 57 stone installed on top of 12" of cement stabilized base material. The proposed project would impact a total of 2.72 acres of jurisdictional Waters of the U.S. including 0.04 acres of man-made ditches.

AVOIDANCE AND MINIMIZATION INFORMATION – The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

The location of the oil deposit is the limiting factor regarding the well pad site location. The prospect is located in a paleogeographic position similar to that of Little Cedar Creek and Brooklyn Fields in Alabama. These two fields have produced 21.4 million barrels of oil (MMBO) plus 31.2 BCF, and 21.7 MMBO plus 29.6 billion cubic feet (BCF) respectively to date. Fishpond Field located just south of Brooklyn Field has produced 1.9 BCF and 1.6 MMBO to date on a small reef buildup. The prospect paleogeographic position is a prime location for the development of Thrombolite and Oolite porosity in the Smackover Formation similar to that of the aforementioned fields. That is, porosity development in both Oolite and Thrombolites adjacent to the Smackover paleo shoreline. The Hunt International Paper Company 30-4 well drilled 3 miles to the southwest of the prospect in October 1974, indeed encountered both porosity types in the Smackover section. Smackover production was also encountered 120 miles further west of the prospect location at Jay Field, also in the Florida Panhandle. This field has produced almost 500 MMBO and 600 BCF from the Smackover over a 13,000-acre feature.

Based on the oil deposit location there are no practicable alternative locations to access the deposit. The applicant has sited the well pad partially over uplands and is utilizing directional drilling to minimize impacts to WOTUS.

COMPENSATORY MITIGATION – The applicant has offered the following compensatory mitigation plan to offset unavoidable functional loss to the aquatic environment:

The applicant provided a Uniform Mitigation Assessment Methodology (UMAM) analysis for the project. To compensate for the functional loss of 2.14 UMAM units incurred from wetland impacts, the client will purchase forested wetland mitigation credits from the Sweetwater Mitigation Bank.

CULTURAL RESOURCES: The Corps has received correspondence from the Florida Division of Historical Resources stating that based on information provided by the applicant's cultural resources assessment survey, the project will have no effect on historic properties listed, or eligible for listing, in the National Register of Historic Places, or otherwise of historical, architectural or archaeological value.

ENDANGERED SPECIES: Per the *Eastern Indigo Snake Programmatic Effect Determination Key* and an on-site suitable habitat evaluation, the Corps has determined the proposed project may affect, but is not likely to adversely affect the

federally threatened Eastern indigo snake (*Drymarchon corais couperi*). The Corps has also determined the project may affect but is not likely to adversely affect the federally endangered red cockaded woodpecker (*Picoides borealis*) due to the lack of suitable nesting and foraging habitat. The project is not located within a Core Foraging Area for the federally threatened wood stork (*Mycteria americana*) and therefore the Corps determined there will be no effect for the wood stork. The Corps will request U.S. Fish and Wildlife Service concurrence with this determination pursuant to Section 7 of the Endangered Species Act.

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program.

AUTHORIZATION FROM OTHER AGENCIES: Water Quality Certification may be required from the Florida Department of Environmental Protection and/or one of the state Water Management Districts.

COMMENTS regarding the potential authorization of the work proposed should be submitted in writing to the attention of the District Engineer through the Panama City Permits Section, Attention: Tracey Wheeler 415 Richard Jackson Boulevard, Suite 411, Panama City Beach, Florida 32407 within 30 days from the date of this notice.

The decision whether to issue or deny this permit application will be based on the information received from this public notice and the evaluation of the probable impact to the associated wetlands. This is based on an analysis of the applicant's avoidance and minimization efforts for the project, as well as the compensatory mitigation proposed.

QUESTIONS concerning this application should be directed to the project manager, Ms. Tracey Wheeler, in writing at the Panama City Permits Section, 415 Richard Jackson Boulevard, Suite 411, Panama City Beach, Florida 32405; by electronic mail at Tracey.L.Wheeler@usace.army.mil; or, by telephone at (850) 287-0138.

IMPACT ON NATURAL RESOURCES: Coordination with U.S. Fish and Wildlife Service, Environmental Protection Agency (EPA), the National Marine Fisheries Services, and other Federal, State, and local agencies, environmental groups, and concerned citizens generally yields pertinent environmental information that is instrumental in determining the impact the proposed action will have on the natural resources of the area.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered

including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

The Corps is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other Interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

COASTAL ZONE MANAGEMENT CONSISTENCY: In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan. In Puerto Rico, a Coastal Zone Management Consistency Concurrence is required from the Puerto Rico Planning Board. In the Virgin Islands, the Department of Planning and Natural Resources permit constitutes compliance with the Coastal Zone Management Plan.

REQUEST FOR PUBLIC HEARING: Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing.

SITE DEVELOPMENT PLANS FOR
BEAR CREEK 34-4 NO.1
WELL PAD

GULF COUNTY, FLORIDA

SECTION 34, TOWNSHIP 3 SOUTH, RANGE 11 WEST

GENERAL NOTES:

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL GULF COUNTY AND FDEP STANDARDS AND SPECIFICATIONS, AND ALL LOCAL, COUNTY, STATE, AND FEDERAL LAWS AND REQUIREMENTS INCLUDING OSHA.
2. ALL CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH OSHA SAFETY REGULATIONS AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE REQUIREMENTS CONTAINED IN THE SPOONER SITE SPECIFIC HEALTH AND SAFETY PLAN.
3. IN THE EVENT OF A CONFLICT BETWEEN BETWEEN THESE REQUIREMENTS AND THE CONTRACTORS SUBMITTED BID PACKAGE, THE PROVISIONS OF THESE REQUIREMENTS SHALL TAKE PRECEDENCE.

JURISDICTIONAL CONTACTS

GULF COUNTY BUILDING DEPARTMENT
1000 CECIL G. COSTIN, SR. BLVD.
ROOM 305
PORT ST. JOE, FL 32456
PHONE: (850) 229-8944
FAX: (850) 512-1376

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
180 E. REDSTONE AVE.
CRESTVIEW, FL 32539
PHONE: (850) 683-5044
FAX: (850) 683-5050

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
2600 BLAIR STONE ROAD
TALLAHASSEE, FL 32399
PHONE: (866) 336-6312
FAX: (850) 297-1211

SURVEYOR

ROWE ENGINEERING & SURVEYING, INC.
3502 LAUGHLIN DRIVE – SUITE B
MOBILE, ALABAMA 36693 USA
PHONE: (251) 666-2766
FAX: (251) 660-1040

GEOTECHNICAL ENGINEER

KLEINFELDER SOUTHEAST, LLC
1907 NORTH US HIGHWAY 301
BLDG. C., SUITE 100
TAMPA, FL 33619
PHONE: (813) 887-3900
FAX: (813) 887-3922

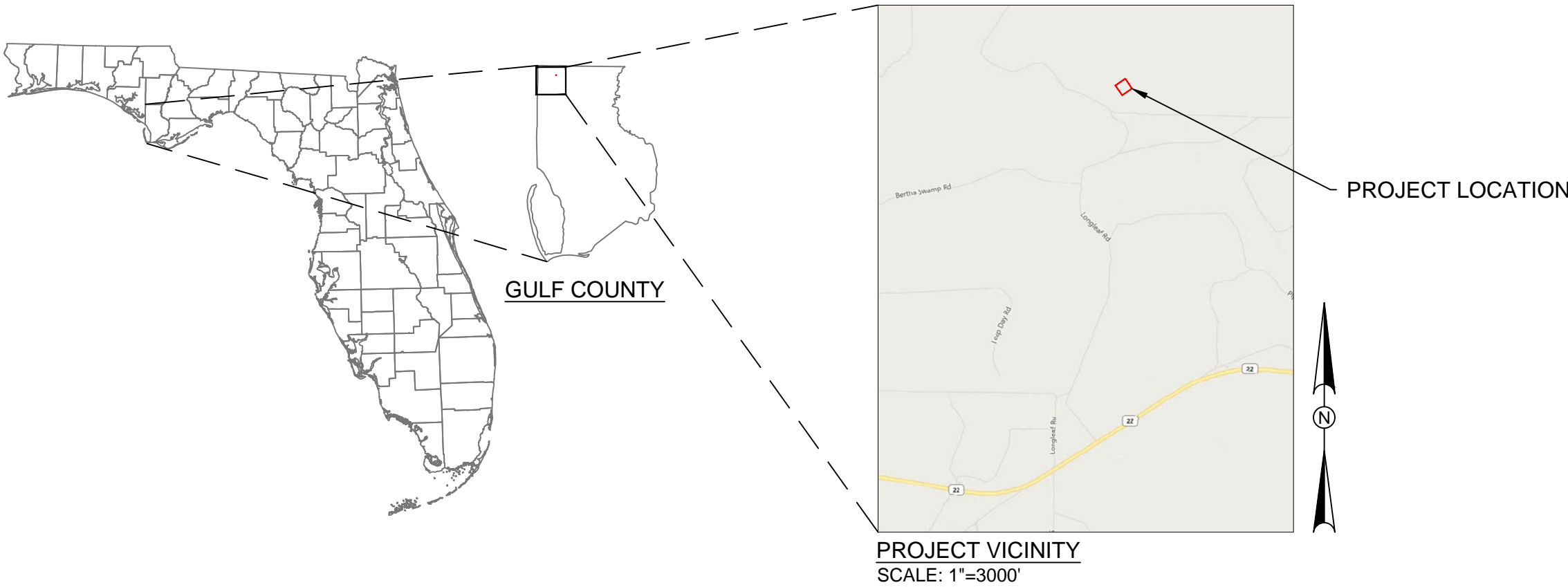
ENGINEER OF RECORD

KLEINFELDER SOUTHEAST, INC.
STATE OF FLORIDA
CERTIFICATE OF AUTHORIZATION #31004
CONTACT: BRIAN BURKHART, PE
FLORIDA REGISTRATION #79054
1166 CAMP AVE.
MOUNT DORA, FL 32757
PHONE: (352) 383-1444

CALL 48 HOURS
BEFORE YOU DIG



FLORIDA
ONE-CALL CENTER
1-800-432-4770



FLOOD ZONE DATA

THE SUBJECT PROPERTY SHOWN HEREON IS LOCATED IN FLOOD ZONE X (MINIMAL RISK AREAS OUTSIDE THE 1-PERCENT AND .2-PERCENT-ANNUAL-CHANCE FLOODPLAINS) AND IN FLOOD ZONE A (AREAS SUBJECT TO INUNDATION BY THE 1-PERCENT-ANNUAL-CHANCE FLOOD EVENT). NO BFE'S OR BASE FLOOD DEPTHS ARE SHOWN WITHIN THESE ZONES). DETERMINED FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP OF GULF COUNTY, FLORIDA, NFIP COMMUNITY NUMBER 120098 FIRM MAP PANEL NUMBER 12045C0040F, REVISION DATE AUGUST 11, 2016.					
FLOOD ZONE(S)	NFIP COMMUNITY NUMBER	MAP NUMBER	PANEL NUMBER(S)	SUFFIX	MAP REVISION DATE
A, X	120098	12045C	0040	F	AUGUST 11, 2016

PROJECT OWNER



SPOONER PETROLEUM COMPANY
625 HIGHLAND COLONY PARKWAY, SUITE 101
RIDGELAND MISSISSIPPI 39157
PHONE: (601) 969-1831
FAX: (601) 353-4117

SHEET INDEX

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ISSUED FOR
CONSTRUCTION

NO.	REVISION	BY	DATE
1			
2			
3			
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8			
9			
10			

KLEINFELDER
Bright People. Right Solutions.
1174 Camp Avenue, Mount Dora, FL 32757
or 352.383.1444, f1 352.383.3877
Certificate of Authorization #31004
www.kleinfelder.com

PROJ. NO.
20193935.001A

ACAD FILE:
Spoonier-Gulf-BASE.dwg

COVER

SPOONER PETROLEUM COMPANY
BEAR CREEK 34-4 NO.1 WELL PAD
GULF COUNTY, FLORIDA

DESIGNED BY:	NCD
DRAWN BY:	NCD
CHECKED BY:	DJH
DATE:	7/10/2019
SCALE:	
SHEET	

CAD FILE: \\Moundara\MOUNTDORA-DATA\GIS\CAD\00_2019 Projects\20193935_001A_Spooner-Gulf Co Exploration Well\Site Development Plans\CAD_ LAYOUT_ C2-NOTES

PLOTTED: 10 Jul 2019, 1:31pm, NDR\Priest

GENERAL NOTES:

- DATUM USED FOR THE PLANS IS NAVD 88 FLORIDA NORTH (US FEET).
- THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH MATERIALS FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE PROJECT ADMINISTRATOR. THE CONTRACTOR SHALL PROVIDE THE PROJECT ADMINISTRATOR WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. THE CONSTRUCTION PROJECT ADMINISTRATOR SHALL COORDINATE WITH THE ENGINEER OF RECORD PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR.
- ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT SHALL IMMEDIATELY BE REPORTED TO THE CONSTRUCTION PROJECT ADMINISTRATOR WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE CONSTRUCTION PROJECT ADMINISTRATOR IS TO NOTIFY THE PROJECT MANAGER OF DISCOVERY. THE PROJECT MANAGER WILL ARRANGE AN INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE CONSTRUCTION PROJECT ADMINISTRATOR.
- THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH ONE CALL OF FLORIDA, INC. TWO BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE. CALL 1-800-432-4770 AND 811 (NATIONWIDE TOLL FREE UTILITY LOCATE). THE LOCATION OF THE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.
- INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES IS BASED ON DATA PROVIDED BY UTILITY OWNERS, AVAILABLE RECORDS, AND FIELD SURVEYS. THE PLANS MAY NOT SHOW ALL UTILITIES WITHIN PROJECT LIMITS, EITHER ACTIVE OR PLACED OUT-OF-SERVICE, OR THAT SAID UTILITIES ARE ACTUALLY IN THE HORIZONTAL OR VERTICAL POSITIONS SHOWN IN THE PLANS. DETERMINE THE TYPE AND LOCATION OF ALL UTILITIES TO ESTABLISH THEIR LOCATIONS AND TO AVOID DAMAGE TO UNDERGROUND UTILITIES.
- UTILITY ADJUSTMENTS ARE TO BE PERFORMED BY THE UTILITY OWNERS UNLESS OTHERWISE NOTED.
- SWEEPING SHALL OCCUR DAILY OR AFTER SUCH EVENTS AS CAUSE TRACKING ONTO STREET. WATER TRUCKS SHALL BE USED FOR DUST CONTROL, IF NECESSARY.
- ALL PROPOSED GROUND ELEVATIONS ARE FINISHED GROUND ELEVATIONS.
- WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES NOT SHOWN AS BEING REMOVED, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
- THE CONTRACTOR SHALL DISPOSE OF ALL DEBRIS UPON COMPLETION OF THE PROJECT.
- THE EROSION CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE FDOT/FDEP EROSION & SEDIMENT CONTROL HANDBOOK.
- ALL FILL MATERIAL SHALL BE SELECT FILL AS DEFINED BY FDOT DESIGN STANDARD INDEX 505.
- THE CONTRACTOR SHALL REPAIR OR REPLACE ANY METERS, VALVES, SERVICE LATERALS, FIRE HYDRANTS, MAINS, WATER, WASTEWATER, OR GAS FACILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.
- ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
- CONTRACTOR SHALL COMPLY WITH ANY TESTING REQUIRED BY STATE AND LOCAL GOVERNING AGENCIES.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY MEASURES AND SUPPORT TO ACCESS THE SITE AND SHALL INCLUDE THE COST FOR SAME IN THE BID. CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE SATISFACTION OF THE OWNER AND/OR GOVERNING AGENCY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING SPILLS OF POTENTIALLY HAZARDOUS SUBSTANCES (I.E. GASOLINE, DIESEL FUEL, HYDRAULIC FLUID, ETC.) TO THE APPROPRIATE STATE (FDEP STATE WARNING POINT 1-800-320-0519) AND LOCAL (GULF COUNTY HEALTH DEPT. 850-227-1276) AGENCIES.
- SOLID WASTE SHALL BE KEPT IN AN APPROVED DUMPSTER THROUGHOUT CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL PLACE AND MAINTAIN ADEQUATE BARRICADES, CONSTRUCTION SIGNS, FLASHING LIGHTS, TORCHES, RED LANTERNS, AND GUARDS DURING PROGRESS OF CONSTRUCTION WORK AND UNTIL IT IS SAFE FOR BOTH PEDESTRIAN AND VEHICULAR TRAFFIC.
- CONTRACTOR SHALL FOLLOW ALL OSHA REQUIREMENTS FOR CONSTRUCTION.
- THE CONTRACTOR SHALL FOLLOW ALL CONDITIONS OF THE PERMIT REQUIREMENTS.

GRADING AND DRAINAGE NOTES:

- PROPOSED SPOT ELEVATIONS REPRESENT GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- ALL WASTE MATERIAL SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- ALL SPOIL MATERIAL SHALL BE PLACED ON THE UPLAND SIDE OF ANY SLOPED CONSTRUCTION AREA.
- SATISFACTORY IMPORT MATERIALS CONSIST OF SOILS COMPLYING WITH AASHTO SOIL CLASSIFICATION GROUPS A-1, A-2-4, OR A-3.
- STOCKPILE SATISFACTORY EXCAVATED MATERIALS UNTIL REQUIRED FOR FILL PLACE, GRADE, AND SHAPE STOCKPILES FOR PROPER DRAINAGE.

EROSION CONTROL NOTES:

- CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.
- AS SOON AS GRADING IS COMPLETE IN AN AREA, THE CONTRACTOR WILL STABILIZE THE SOIL. FOR LONG, NARROW AREAS, THE CONTRACTOR SHALL STABILIZE CONTINUOUSLY DURING GRADING OPERATIONS. ROUGH GRADED AREAS SHOULD BE STABILIZED WITH TEMPORARY EROSION CONTROL IF FINAL GRADING AND STABILIZATION WILL NOT BE PERFORMED WITHIN FIVE (5) DAYS. FAILURE TO STABILIZE EXPOSED SOIL AREAS IN A TIMELY MANNER AFTER GRADING MAY BE CONSIDERED A VIOLATION OF CHAPTERS 17-3, 17-12, AND/OR 17-25, FLORIDA ADMINISTRATIVE CODE, BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND SUBJECT TO CORRECTIVE ACTION, PURSUANT TO SECTION 403.121- 403.161 FLORIDA STATUTES. SEE GENERAL SEEDING NOTES ON THIS SHEET.
- TEMPORARY EROSION CONTROL SHALL CONSIST OF TEMPORARY GRASS, TEMPORARY MULCH, TEMPORARY SOD, ARTIFICIAL COVERINGS, STRAW, SILT FENCES, AND/OR TURBIDITY BARRIERS. TEMPORARY EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS. SEE THIS SHEET FOR TEMPORARY SEEDING NOTES.
- PERMANENT EROSION CONTROL SHALL CONSIST OF SEED, SEED AND MULCH, HYDRO-SEEDING, SOD, AND/OR ARTIFICIAL COVERINGS. PERMANENT EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTIONS 570 AND 575 OF THE FDOT STANDARD SPECIFICATIONS. SEED OR GRASS TYPE SHALL MATCH EXISTING OR BE AS SPECIFIED BY OWNER UNLESS NOTED OTHERWISE. SEE THIS SHEET FOR PERMANENT SEEDING NOTES.
- THE CONTRACTOR IS TO PROVIDE EROSION CONTROL / SEDIMENTATION BARRIER (SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFFSITE BY EROSION OR STORM WATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
- ALL SEDIMENTATION STRUCTURES SHALL BE INSPECTED AND MAINTAINED REGULARLY.
- ANY AREAS USED FOR THE CONTRACTORS STAGING, INCLUDED BUT NOT LIMITED TO, TEMPORARY STORAGE OF STOCKPILED MATERIALS (I.E. CRUSHED STONE, PROCESS STONE, SELECT FILL, EXCAVATED MATERIALS, ETC.) SHALL BE ENTIRELY PROTECTED BY A SILT FENCE ALONG THE LOW ELEVATION SIDE TO CONTROL SEDIMENT RUNOFF.
- ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT GULF COUNTY, FDEP, AND NFWFMD SYSTEM STANDARDS AND REQUIREMENTS.
- FOR SITES WITH DISTURBANCE EXCEEDING 1 ACRE: TO COMPLY WITH NPDES REQUIREMENTS, THE CONTRACTOR SHALL SUBMIT AN NPDES NOTICE OF INTENT TO FDEP A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ADDITIONALLY, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AFTER EACH 1/2" RAINFALL EVENT OR AT LEAST WEEKLY. A CERTIFIED STORMWATER MANAGEMENT INSPECTOR SHALL DOCUMENT SUCH INSPECTIONS AND EROSION CONTROL EFFORTS. INSPECTION RECORDS SHOULD BE ON HAND AT ALL TIMES AND PROVIDED TO ANY FDEP REPRESENTATIVE THAT MAY VISIT THE SITE DURING CONSTRUCTION.
- RETENTION/DETENTION AREAS SHALL BE SUBSTANTIALLY COMPLETE PRIOR TO ANY CONSTRUCTION ACTIVITIES THAT MAY INCREASE STORMWATER RUNOFF RATES. THE CONTRACTOR SHALL CONTROL STORMWATER DURING ALL PHASES OF CONSTRUCTION AND TAKE ADEQUATE MEASURES TO PREVENT THE EXCAVATED POND FROM BLINDING DUE TO SEDIMENTS.
- THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE GULF COUNTY ROAD AND BRIDGE DEPARTMENT PRIOR TO COMMENCING ANY WORK WITHIN THE COUNTY RIGHT OF WAY.

GENERAL SEEDING NOTES:

PLANT SELECTION:

- THE SELECTION OF PLANT MATERIALS IS BASED ON CLIMATE, TOPOGRAPHY, SOILS, LAND USE, AND PLANTING SEASON. TO DETERMINE WHICH PLANT MATERIALS ARE BEST ADAPTED TO A SPECIFIC SITE, SEE TABLES 1.66B AND 1.66C OF THE FLORIDA DEVELOPMENT MANUAL, WHICH DESCRIBE PLANT CHARACTERISTICS AND LIST RECOMMENDED VARIETIES.
- TABLE 1.66A OF THE FLORIDA DEVELOPMENT MANUAL LISTS APPROPRIATE SEEDING MIXTURES FOR VARIOUS SITE CONDITIONS IN FLORIDA. THESE MIXTURES ARE DESIGNED FOR GENERAL USE AND ARE KNOWN TO PERFORM WELL ON THE SITES DESCRIBED. ADHERE TO THESE MIXTURES WHENEVER FEASIBLE. CHECK TABLES 1.66B AND 1.66C FOR RECOMMENDED VARIETIES.

SEEDING MIXTURE:

- ALL PERMANENT AND TEMPORARY GRASS SEED SHALL HAVE BEEN TESTED WITHIN A PERIOD OF SIX MONTHS OF THE DATE OF PLANTING.
- ALL PERMANENT AND TEMPORARY GRASS SEED SHALL HAVE A MINIMUM PERCENT OF PURITY AND GERMINATION AS FOLLOWS:
 - ALL BAHIA GRASS SEED SHALL HAVE A MINIMUM PURE SEED CONTENT OF 95% WITH A MINIMUM GERMINATION OF 80%.
 - BERMUDA GRASS SEED SHALL BE OF COMMON VARIETY WITH A MINIMUM PURE SEED CONTENT OF 95% WITH A MINIMUM GERMINATION OF 85%.
 - ANNUAL TYPE RYEGRASS SEED SHALL HAVE A MINIMUM PURE SEED CONTENT OF 95% WITH A MINIMUM GERMINATION OF 90%.
- FOLLOW MANUFACTURES INSTRUCTIONS FOR SEEDING RATES.
- SEE PERMANENT AND TEMPORARY SEEDING NOTES ON THIS SHEET FOR ADDITIONAL SEEDING, FERTILIZING, AND MULCHING INSTRUCTIONS.

SEEDBED REQUIREMENTS:

VEGETATION SHOULD NOT BE ESTABLISHED ON SLOPES THAT ARE UNSUITABLE BECAUSE OF INAPPROPRIATE SOIL TEXTURE, POOR INTERNAL STRUCTURE OR INTERNAL DRAINAGE, A HIGH VOLUME OF OVERLAND FLOW, OR EXCESSIVE STEEPNESS, UNTIL MEASURES HAVE BEEN TAKEN TO CORRECT THESE PROBLEMS.

TO MAINTAIN A GOOD STAND OF VEGETATION, THE SOIL MUST MEET CERTAIN MINIMUM REQUIREMENTS AS A GROWTH MEDIUM. THE EXISTING SOIL MUST MEET THE FOLLOWING CRITERIA:

- ENOUGH FINE-GRAINED MATERIAL TO MAINTAIN ADEQUATE MOISTURE AND NUTRIENT SUPPLY.
- SUFFICIENT PORE SPACE TO PERMIT ROOT PENETRATION. A BULK DENSITY OF 1.2 TO 1.5 INDICATES THAT SUFFICIENT PORE SPACE IS PRESENT. A FINE GRANULAR OR CRUMB-LIKE STRUCTURE IS ALSO FAVORABLE.
- SUFFICIENT DEPTH TO PROVIDE AN ADEQUATE ROOT ZONE. THE DEPTH TO ROCK OR IMPERMEABLE LAYERS SUCH AS HARDPANS SHALL BE 12 INCHES (30 CM) OR MORE, EXCEPT ON SLOPES STEEPER THAN 2:1, WHERE THE ADDITION OF SOIL IS NOT FEASIBLE.
- A FAVORABLE PH RANGE FOR PLANT GROWTH AS DETERMINED BY A SOIL TEST. IF THE SOIL IS SO ACIDIC THAT A PH RANGE OF 6.0 TO 7.0 CANNOT BE ATTAINED BY THE ADDITION OF PH-MODIFYING MATERIALS, THEN THE SOIL IS UNSUITABLE FOR PLANT ROOTS.
- FREEDOM FROM TOXIC AMOUNTS OF MATERIALS HARMFUL TO PLANT GROWTH.
- FREEDOM FROM EXCESSIVE QUANTITIES OF ROOTS, BRANCHES, LARGE STONES, LARGE CLOUDS OF EARTH, OR TRASH OF ANY KIND. CLOUDS AND STONES MAY BE LEFT ON SLOPES STEEPER THAN 3:1 IF THEY ARE TO BE HYDROSEEDED.

IF ANY OF THE ABOVE CRITERIA CANNOT BE MET (I.E., IF THE EXISTING SOIL IS TOO COARSE, DENSE, SHALLOW, ACID, OR CONTAMINATED TO FOSTER VEGETATION) THEN TOPSOIL SHOULD BE APPLIED. SEE PERMANENT AND TEMPORARY SEEDING NOTES ON THIS SHEET FOR ADDITIONAL SEEDING, MULCHING, AND FERTILIZING INSTRUCTIONS.

SEEDBED PREPARATION:

- SURFACE ROUGHENING: IF THE AREA HAS BEEN RECENTLY LOOSENEED OR DISTURBED, NO FURTHER ROUGHENING IS REQUIRED. WHEN THE AREA IS COMPACTED, CRUSTED, OR HARDENED, THE SOIL SURFACE SHALL BE LOOSENEED BY DISCING, RAKING, HARROWING, OR OTHER ACCEPTABLE MEANS.
- TRACKING: TRACKING WITH BULLDOZER CLEATS IS MOST EFFECTIVE ON SANDY SOILS. THIS PRACTICE OFTEN CAUSES THE UNDUE COMPACTION OF THE SOIL SURFACE, ESPECIALLY IN CLAYEY SOILS, AND DOES NOT AID IN PLANT GROWTH AS EFFECTIVELY AS OTHER METHODS OF SURFACE ROUGHENING.

LIME AND FERTILIZER:

LIME AND FERTILIZER NEEDS SHOULD BE DETERMINED BY SOIL TESTS. SOIL TESTS MAY BE PERFORMED BY THE COOPERATIVE EXTENSION SERVICE SOIL TESTING LABORATORY AT THE UNIVERSITY OF FLORIDA, OR BY A REPUTABLE COMMERCIAL LABORATORY. INFORMATION ON THE STATE'S SOIL TESTING LABORATORY IS AVAILABLE FROM COUNTY EXTENSION AGENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE SOIL TEST. UNDER UNUSUAL CONDITIONS WHERE IT IS NOT POSSIBLE TO OBTAIN A SOIL TEST, LIME AND FERTILIZER WILL BE APPLIED WITH THE FOLLOWING CONDITIONS:

- LIME SHOULD BE APPLIED WHERE SOILS ARE KNOWN TO BE HIGHLY ACIDIC (pH 6.0 AND LOWER).
- LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE TOP 4 TO 6 INCHES (10 TO 15 CM) OF THE SOIL BY DISCING OR OTHER MEANS.
- WHEN APPLYING LIME AND FERTILIZER WITH A HYDROSEEDER, APPLY TO A ROUGH, LOOSE SURFACE.
- IN INACCESSIBLE AREAS, LIME MAY HAVE TO BE APPLIED SEPARATELY IN PELLETIZED OR LIQUID FORM. THE RATES OF WOOD FIBER SHOULD BE AT LEAST 2,000 POUNDS PER ACRE. SURFACE ROUGHENING IS PARTICULARLY IMPORTANT WHEN HYDROSEEDING. AS A ROUGHENED SLOPE PROVIDES SOME NATURAL COVERAGE OF LIME, FERTILIZER, AND SEED.

REFER TO TEMPORARY AND PERMANENT SEEDING NOTES FOR LIME AND FERTILIZER APPLICATION RATES.

GENERAL SEEDING NOTES (CONTINUED):

SEEDING:

- SEED SHALL BE EVENLY APPLIED WITH A CYCLONE SEEDER, DRILL, CULTIPACKER-SEEDER, OR HYDROSEEDER. SMALL GRAINS SHALL BE PLANTED NO MORE THAN ONE INCH DEEP. GRASSES AND LEGUMES SHALL BE PLANTED NO MORE THAN 1/4-INCH DEEP.
- DURING HYDROSEEDING, TO AVOID SEED DAMAGE, IT IS RECOMMENDED THAT IF A MACHINERY BREAKDOWN OF 30 MINUTES TO 2 HOURS OCCURS, 50% MORE SEED BE ADDED TO THE TANK, BASED ON THE PROPORTION OF THE SLURRY REMAINING IN THE TANK. BEYOND 2 HOURS, A FULL RATE OF NEW SEED MAY BE NECESSARY. OFTEN HYDROSEEDING CONTRACTORS PREFER NOT TO APPLY LIME IN THEIR RIGS, AS IT IS ABRASIVE.

RESEEDING:

AREAS THAT FAIL TO ESTABLISH ENOUGH VEGETATION COVER TO PREVENT RILL EROSION WILL BE FILLED IN WITH PROPER TOPSOIL AND RESEEDED AS SOON AS THEY ARE IDENTIFIED.

TEMPORARY SEEDING NOTES:

LIME AND FERTILIZER:

- LIME: APPLY 2 TONS PER ACRE (90 POUNDS PER 1,000 SQUARE FEET) OF FINELY GROUND AGRICULTURAL OR DOLOMITIC LIMESTONE
- FERTILIZER: APPLY 217.5 POUNDS PER ACRE (5 POUNDS PER 1,000 SQUARE FEET) OF 50% SLOW-RELEASE 10-20-20 OR EQUIVALENT

MULCHING:

- MULCH SHOULD USUALLY BE APPLIED TO REDUCE DAMAGE FROM WATER OR RUNOFF OR WIND EROSION AND TO IMPROVE MOISTURE CONDITIONS FOR SEEDINGS. MULCHING WITHOUT SEEDING SHOULD BE CONSIDERED FOR VERY SHORT-TERM PROTECTION. THE USE OF MULCH IS A JUDGMENT DECISION BASED ON THE TIME OF SEEDING AND CONDITIONS OF INDIVIDUAL SITES.
- SEEDINGS MADE ON SLOPES IN EXCESS OF 3:1 OR ON ADVERSE SOIL CONDITIONS, OR DURING EXCESSIVELY HOT OR DRY WEATHER, SHALL BE MULCHED.
- SEEDINGS MADE DURING OPTIMUM SPRING AND SUMMER SEEDING DATES, WITH FAVORABLE SOIL AND SITE CONDITIONS, MAY NOT REQUIRE MULCH.

PERMANENT SEEDING NOTES:

LIME AND FERTILIZER:

- LIME: APPLY 2 TONS PER ACRE (90 POUNDS PER 1,000 SQUARE FEET) OF FINELY GROUND AGRICULTURAL OR DOLOMITIC LIMESTONE
- FERTILIZER:
 - MIXED GRASSES AND LEGUMES: APPLY 150 POUNDS PER ACRE (3.5 POUNDS PER 1,000 SQUARE FEET) OF 5-25-10
 - LEGUME STANDS ONLY: APPLY 150 POUNDS PER ACRE (3.5 POUNDS PER 1,000 SQUARE FEET) OF 5-20-10
 - GRASS STANDS ONLY: APPLY 870 POUNDS PER ACRE (20 POUNDS PER 1,000 SQUARE FEET) OF 5-5-10 AND 57 POUNDS PER ACRE (1.3 POUNDS PER 1,000 SQUARE FEET) OF 38-0-0 IN SPRING; APPLY 220 POUNDS PER ACRE (5 POUNDS PER 1,000 SQUARE FEET) OF 10-5-10 AND 57 POUNDS (1.3 POUNDS PER 1,000 SQUARE FEET) OF 38-0-0 IN FALL

OTHER FERTILIZER FORMULATIONS MAY BE USED, PROVIDED THEY SUPPLY THE SAME AMOUNTS AND PROPORTIONS OF PLANT NUTRIENTS.

SEEDING:

- CERTIFIED SEED SHOULD BE USED FOR ALL PERMANENT SEEDING WHENEVER POSSIBLE. CONTRACTOR SHALL PROVIDE A SUBMITTAL FOR CERTIFIED SEED.
- LEGUME SEED SHOULD BE INOCULATED WITH THE INOCULANT APPROPRIATE TO THE SPECIES. THE SEED OF LESPEDEZAS, CROWN VETCH, AND CLOVERS SHOULD BE SCARIFIED TO PROMOTE UNIFORM GERMINATION.
- LEGUME INOCULANTS SHOULD BE USED BY THE DATE INDICATED ON THE CONTAINER. WHEN DRY SEEDING, USE 4 TIMES THE MANUFACTURER'S RATE.
- TREATMENT POND AREA: THE ENTIRE BANK SLOPE AND POND BOTTOM SHALL BE GRASSED IN A MANNER THAT GUARANTEES HEALTHY GROWTH OF GRASS (FREE FROM NOXIOUS WEEDS) SUCH AS SEASHORE PASPALUM OR OTHER SUITABLE GRASS.

MULCHING:

ALL PERMANENT SEEDING MUST BE MULCHED IMMEDIATELY UPON THE COMPLETION OF SEED APPLICATION.



CIVIL NOTES

SPOONER PETROLEUM COMPANY
BEAR CREEK 34-4 NO.1 WELL PAD
GULF COUNTY, FLORIDA

PROJ. NO.
20193935_001A

ACAD FILE:
Spoonier-Gulf-BASE.dwg

DESIGNED BY: NCD

DRAWN BY: NCD

CHECKED BY: DUH

DATE: 7/10/2019

SCALE:
SHEET

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CONSTRUCTION

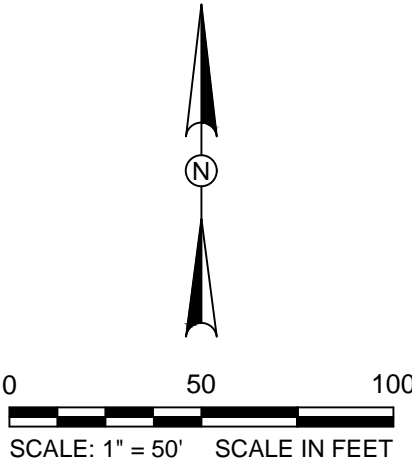
C-2

PLOTTED: 10 Jul 2019, 1:32pm, NDRPrest

CAD FILE: \\moundora\MOUNTDORA-DATA\GIS\CAD\00_2019 Projects\20193935.001A_Spooner-Gulf Co Exploration Well\Site Development Plans\CAD_ LAYOUT: C3-EXIST

PARCEL OWNERSHIP INFORMATION:

PARCEL NO: 03261-000R
 OWNER NAME: BEAR CREEK TIMBER LLC
 OWNER ADDRESS: 15 PIEDMONT CT, STE 1250
 ATLANTA, GA 30305

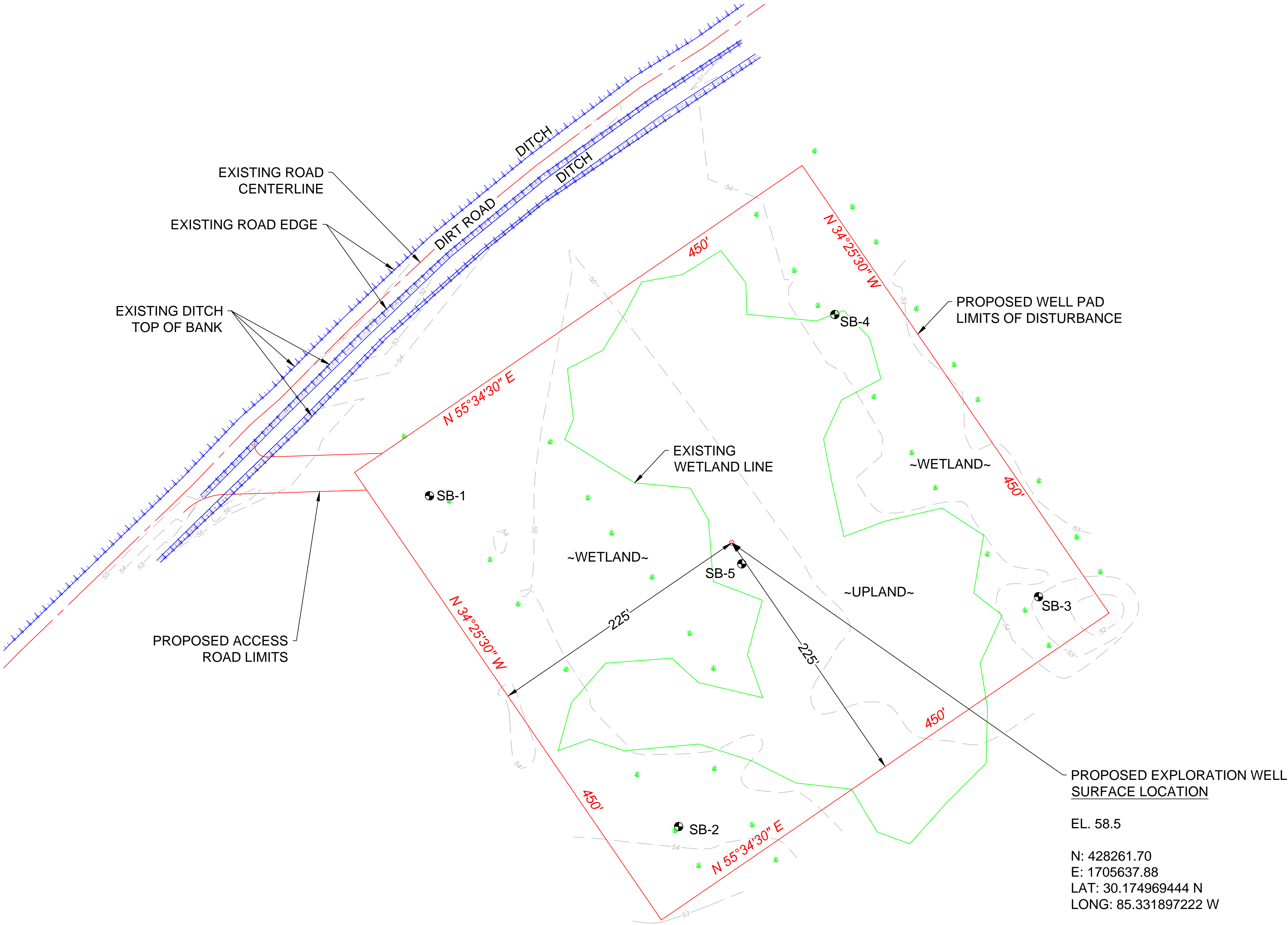


LEGEND

- - - - -54- - - - EXISTING CONTOURS (1')
 - - - - - EXISTING ROAD CENTERLINE
 - - - - - EXISTING DITCH TOP OF BANK
 - - - - - EXISTING WETLAND
 ● SB-1 SOIL BORINGS

NOTES:

1. SPECIAL PURPOSE SURVEY FOR WELL SITE LOCATION AND TOPOGRAPHY SURVEY. BASIS OF BEARINGS: REFERENCED TO FLORIDA STATE PLANE COORDINATE SYSTEM (0903) NAD 83 NORTH ZONE ESTABLISHED BY TRK GPS UTILIZING VIRTUAL REFERENCE STATION (VRS).
 2. ALL ELEVATIONS REPORTED IN FEET. ELEVATIONS REFER TO NAVD 88 GEOID 12(B) VERTICAL DATUM.
 3. SURVEY COMPLETED BY ROWE ENGINEERING & SURVEYING, INC. DATE: JANUARY 17, 2019.
 4. GEOTECHNICAL INVESTIGATION (SOIL BORINGS) COMPLETED BY KLEINFELDER, INC. DATE: APRIL 16-17, 2019. REFER TO EXHIBIT D IN ENVIRONMENTAL SUPPORT DOCUMENT (ESD)



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 1174 Camp Avenue, Mount Dora, FL 32757
 or 352.383.1444, T1 352.383.3877
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 www.kleinfelder.com

PROJ. NO. 20193935.001A
 ACAD FILE: Spooner-Gulf-BASE.dwg

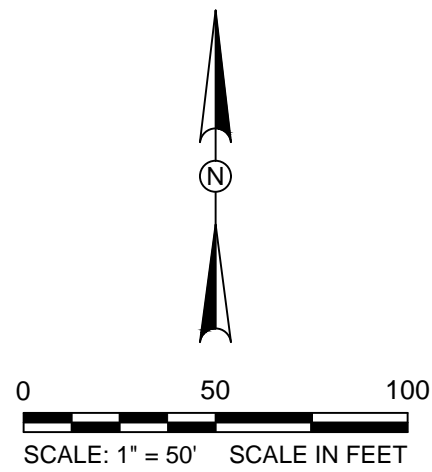
EXISTING CONDITIONS

SPOONER PETROLEUM COMPANY
 BEAR CREEK 34-4 NO.1 WELL PAD
 GULF COUNTY, FLORIDA

DESIGNED BY:	NCD
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CHECKED BY:	DJH
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SCALE:	1"=50'
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CAD FILE: \\Woundora\MOUNTDORA-DATA\GISCAD\00_2019 Projects\20193935.001A_Spooner-Gulf Co Exploration Well\Site Development Plans\CAD\ LAYOUT- C4-SITE PLAN

PLOTTED: 10 Jul 2019, 1:37pm, NDR\Prest



LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED PAD/ROAD
- PROPOSED GRASS
- PROPOSED BERM
- POST-DEVELOPMENT BASIN (3.72 AC.±)
- PROPOSED UNDERDRAIN
- PROPOSED INSPECTION/CLEANOUT PORTS
- PROPOSED CULVERT
- PROPOSED RIP RAP

SITE DATA:

DEVELOPMENT NAME: BEAR CREEK 34-4 NO.1 WELL

PARCEL ZONING: AGRICULTURE
EXISTING LAND USE: CONIFEROUS PLANTATIONS, UPLAND & HYDRIC
FUTURE LAND USE: AGRICULTURE

BUILDING SETBACKS REQUIRED:

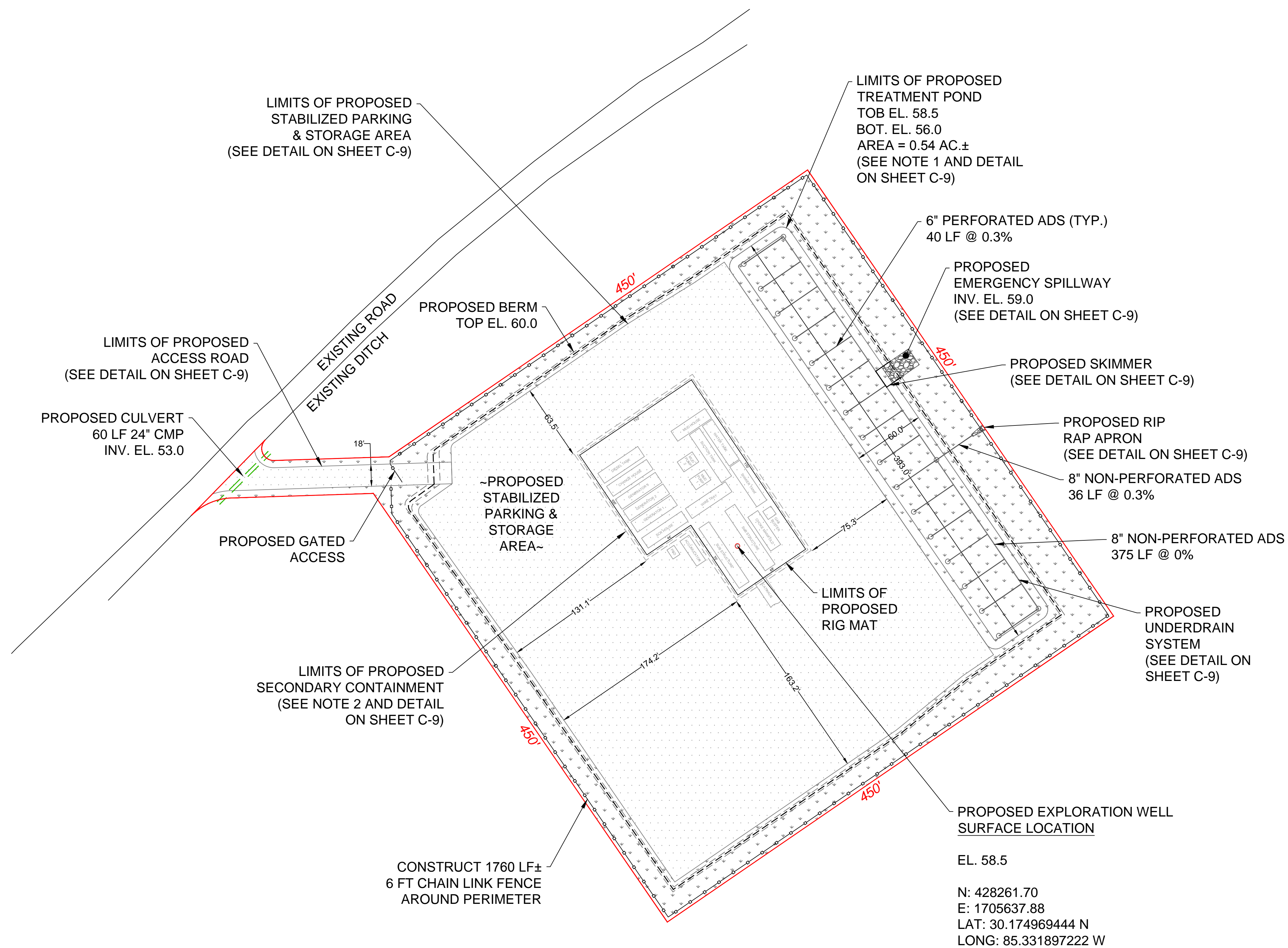
COLLECTOR ROADWAY SETBACK: 25'
ARTERIAL ROADWAY SETBACK: 50'
FRONT SETBACK: 25'
REAR SETBACK: 25'
SIDE SETBACK: MAX 15'

MAXIMUM BUILDING HEIGHT: 35'

TOTAL PARCEL ACREAGE: 4.79 ACRES
TOTAL PROJECT ACREAGE: 4.73 ACRES
PROPOSED IMPERVIOUS AREA: 3.61 ACRES

NOTES:

- REFER TO EROSION CONTROL NOTES 3 AND 4 AND SEEDING NOTES ON SHEET C-2 FOR TEMPORARY AND PERMANENT STABILIZATION IN TREATMENT POND AREA.
- RUNOFF FROM RIG MAT AREA RETAINED BY SECONDARY CONTAINMENT AND DIRECTED BY SUMP PUMPS INTO COLLECTION TANKS; COLLECTION TANKS PLACED OUTSIDE OF THE RIG MAT AND WITHIN THE PAD LIMITS AT A LOCATION TO BE DETERMINED. RIG MAT LAYOUT PROVIDED BY SPOONER.



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ACAD FILE: Spooner-Gulf-BASE.dwg

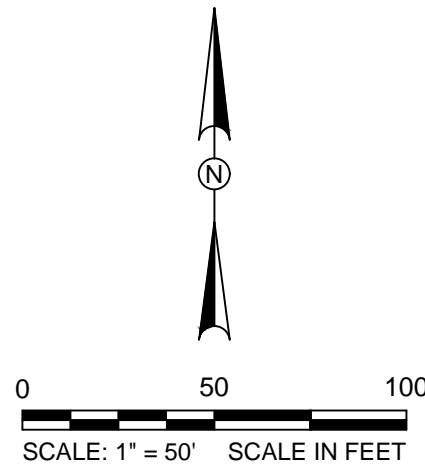
SITE PLAN

SPOONER PETROLEUM COMPANY
BEAR CREEK 34-4 NO.1 WELL PAD
GULF COUNTY, FLORIDA

DESIGNED BY:	NCD
DRAWN BY:	NCD
CHECKED BY:	DJH
DATE:	7/10/2019
SCALE:	1"=50'
SHEET	

PLOTTED: 10 Jul 2019, 1:41pm, NDE/Prest

CAD FILE: \\moundora\MOUNTDORA-DATA\GIS\CAD\00_2019 Projects\20193935.001A_Spooner-Gulf Co Exploration Well\Site Development Plans\CAD\ LAYOUT_C5-EROSION



LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- SF

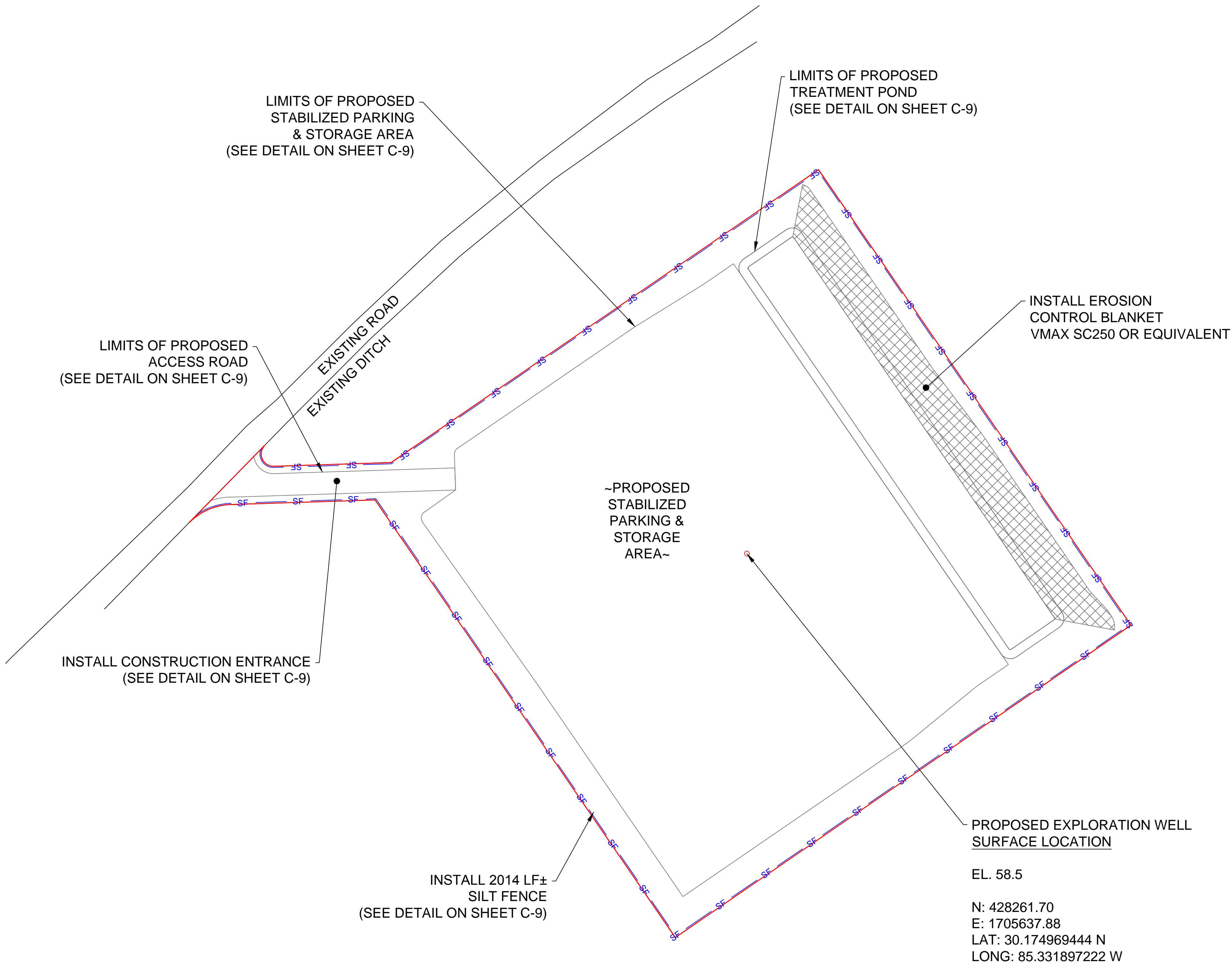
PROPOSED SILT FENCE
- PROPOSED EROSION CONTROL BLANKET

NOTE:

THE EROSION AND SEDIMENT CONTROL RULES ARE PERFORMANCE ORIENTED. THAT IS, THE MEASURES USED AT A CONSTRUCTION SITE MUST BE EFFECTIVE IN CONTROLLING EROSION AND PREVENTING OFF-SITE SEDIMENTATION FOR THE SITE TO BE IN COMPLIANCE. FOLLOWING AN APPROVED PLAN AND INSTALLING THE CONTROL MEASURES MAY NOT BE ENOUGH FOR A SITE TO BE IN COMPLIANCE WITH THE RULES. IF EROSION AND OFF-SITE SEDIMENTATION OCCUR, THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING ADDITIONAL MEASURES TO CORRECT ANY PROBLEM ASSOCIATED WITH COMPLIANCE OF ANY PERMIT REQUIRED FOR THE SITE CONSTRUCTION. THE CONTRACTOR WILL ALSO BE COMPLETELY RESPONSIBLE FOR ANY FINES LEVIED BY ANY GOVERNING AGENCY ON THE PROJECT DURING CONSTRUCTION. SEE ADDITIONAL NOTES ON SHEET C-2.

SEQUENCE OF ACTIVITIES:

1. CONSTRUCT CONSTRUCTION ENTRANCE.
2. INSTALL SILT FENCE AS SHOWN ON PLAN.
3. CLEAR AND GRUB PROJECT AREA.
4. ROUGH GRADE THE TREATMENT POND. THE POND WILL ACT AS A TEMPORARY SEDIMENTATION BASIN.
5. COMPLETE GRADING AND INSTALL PERMANENT SODDING OR OTHER PERMANENT STABILIZATION MEASURES.
6. REMOVE SILT FENCE AFTER ALL DISTURBED AREAS ARE STABILIZED.



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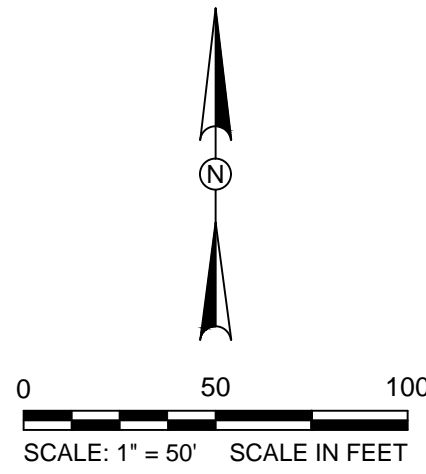
EROSION AND SEDIMENT CONTROL PLAN

SPOONER PETROLEUM COMPANY
 BEAR CREEK 34-4 NO.1 WELL PAD
 GULF COUNTY, FLORIDA

DESIGNED BY:	NCD
DRAWN BY:	NCD
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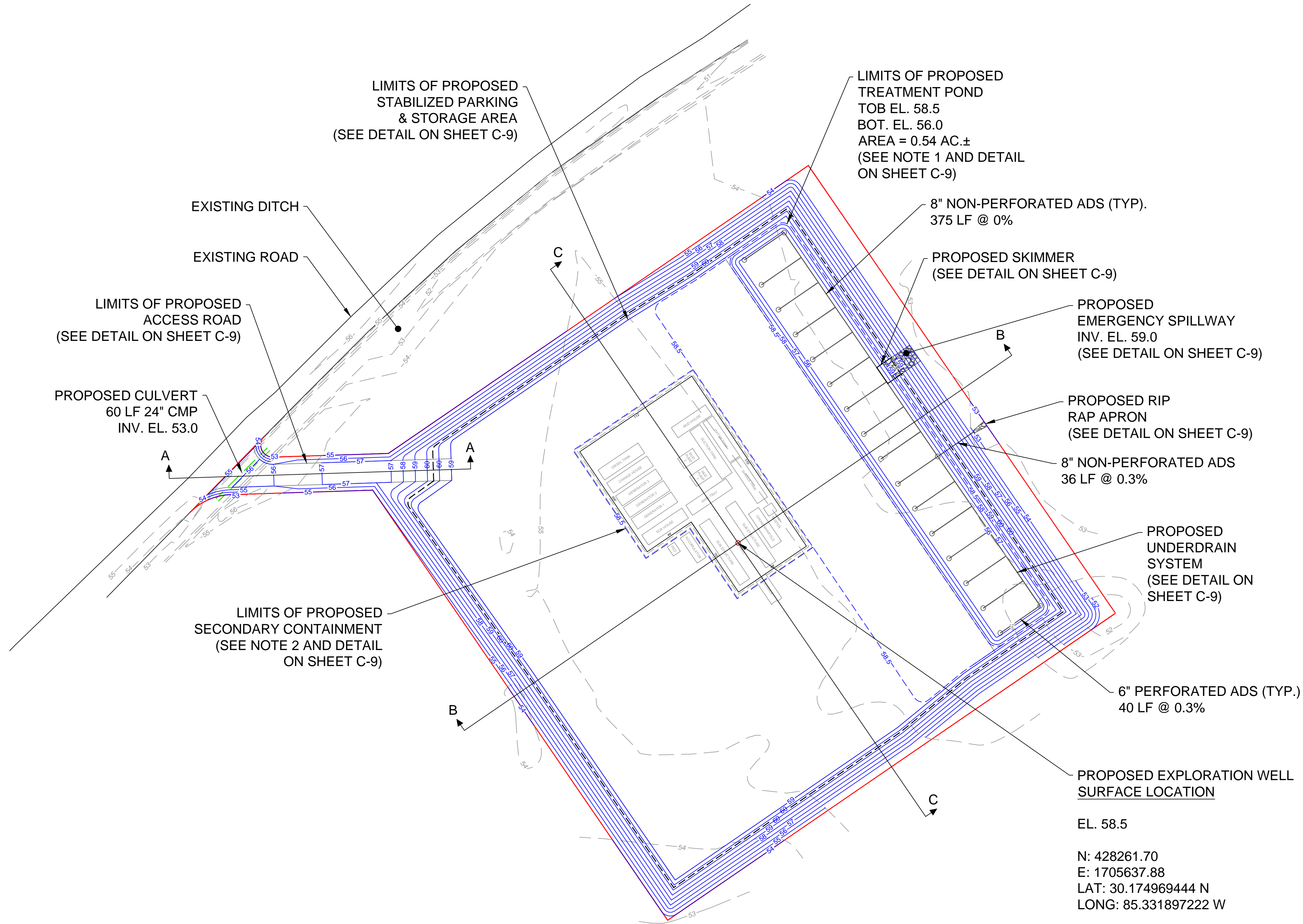


LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- EXISTING CONTOURS (1')
- PROPOSED CONTOURS (1')
- TREATMENT BASIN (3.57 AC.±)
- PROPOSED UNDERDRAIN
- PROPOSED INSPECTION/CLEANOUT PORTS
- PROPOSED CULVERT
- PROPOSED RIP RAP

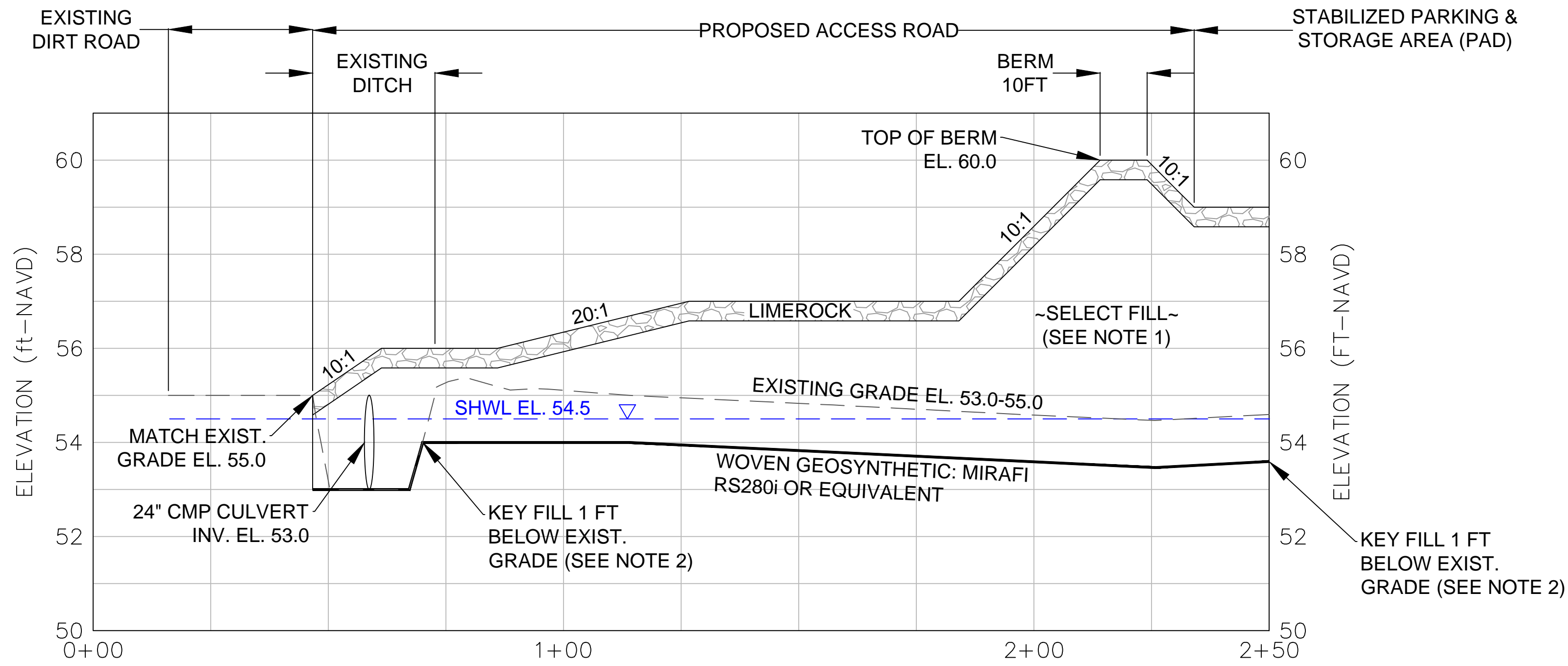
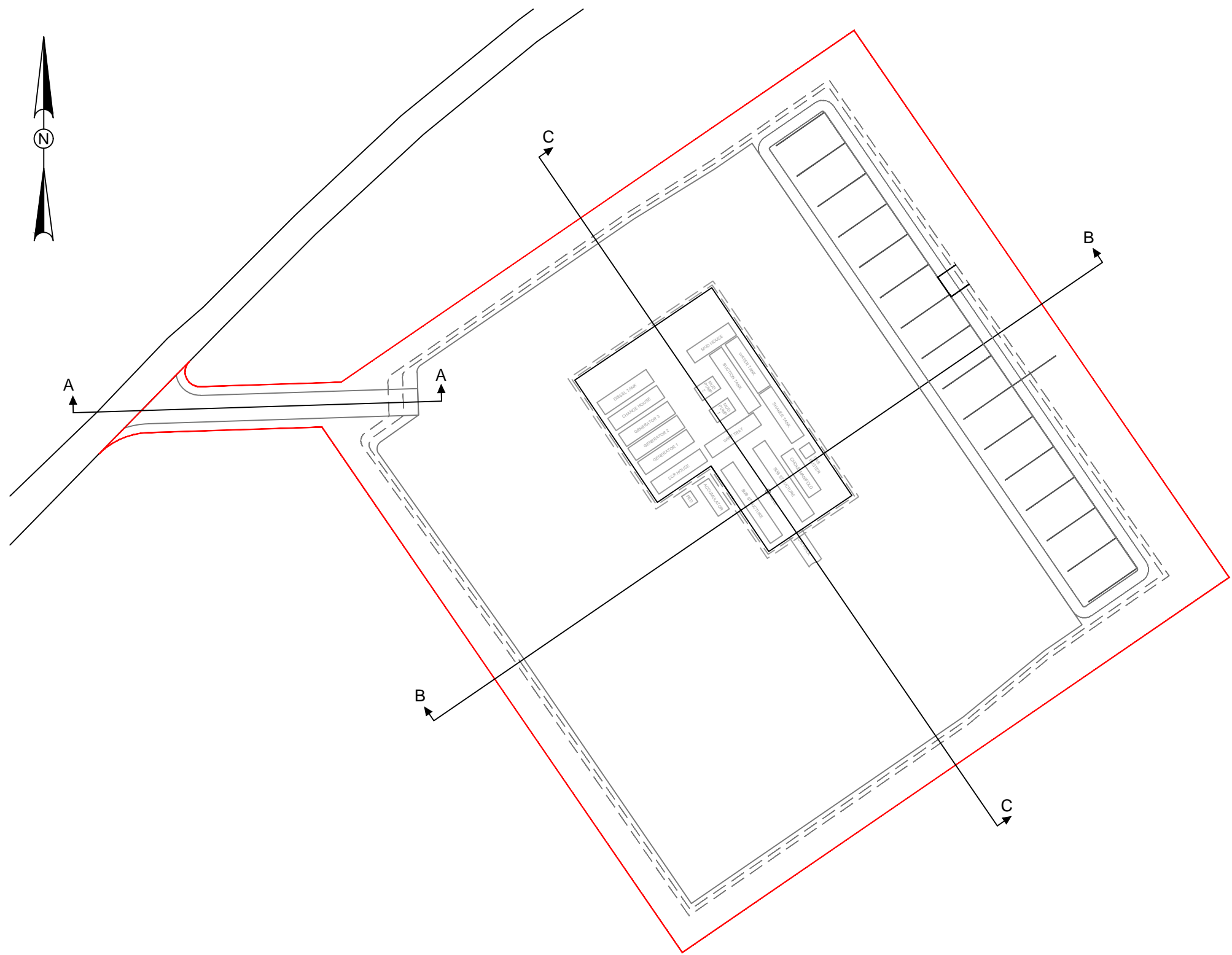
NOTES:

- SEE PERMANENT SEEDING NOTES ON SHEET C-2 FOR STABILIZATION IN TREATMENT POND AREA.
- RUNOFF FROM RIG MAT AREA RETAINED BY SECONDARY CONTAINMENT AND DIRECTED BY SUMP PUMPS INTO COLLECTION TANKS; COLLECTION TANKS PLACED OUTSIDE OF THE RIG MAT AND WITHIN THE PAD LIMITS AT A LOCATION TO BE DETERMINED.
- SEE SHEETS C7 AND C8 FOR GRADING CROSS-SECTIONS A-A, B-B, AND C-C.



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<div>GRADING AND DRAINAGE PLAN</div> <div>SPooner PETROLEUM COMPANY BEAR CREEK 34-4 NO.1 WELL PAD GULF COUNTY, FLORIDA</div>		PROJ. NO. 20193935.001A		ACAD FILE: Spoonier-Gulf-BASE.dwg					
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C-6									
6 of 9 sheets									



NOTES:

1. SEE PAD/ROAD SECTION DETAIL ON SHEET C-9 FOR SOIL SPECIFICATIONS.
2. SEE TREATMENT POND DETAIL AND BASIN CONSTRUCTION NOTES ON SHEET C-9 FOR KEY REQUIREMENTS FOR SELECT FILL.

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SECTIONS

SPOONER PETROLEUM COMPANY
BEAR CREEK 34-4 NO.1 WELL PAD
GULF COUNTY, FLORIDA

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C-7

7 of 9 sheets

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