



AREA 3 - SAND BORROW

STORMWATER PERMIT DRAWINGS FOR

DUKE ENERGY HINES ENERGY COMPLEX SOUTH PARKING LOT

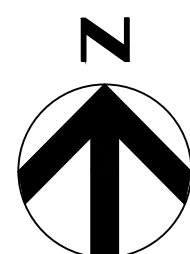
COUNTY ROAD 555,
BARTOW, FL 33830

DUKE ENERGY PROJECT NO.
10393550

BARTOW, FL 33830
MARCH 2025

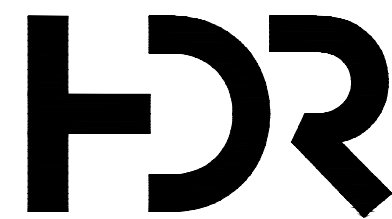
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SITE LOCATION
NTS

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HDR Engineering, Inc.
315 E Robinson Street Suite 400
Orlando, Florida 32801
Phone: (407) 420-4200
Certificate of Authorization #: 4213

ISSUE	DATE	DESCRIPTION	LMF DRAWN	KSL ENGINEER	DBD CHECKED	APPROVED
B	09/11/2025	WETLAND LINE AND BRINE POND UPDATE				
A	02/28/2025	FOR REVIEW				

ISSUED FOR PERMITTING



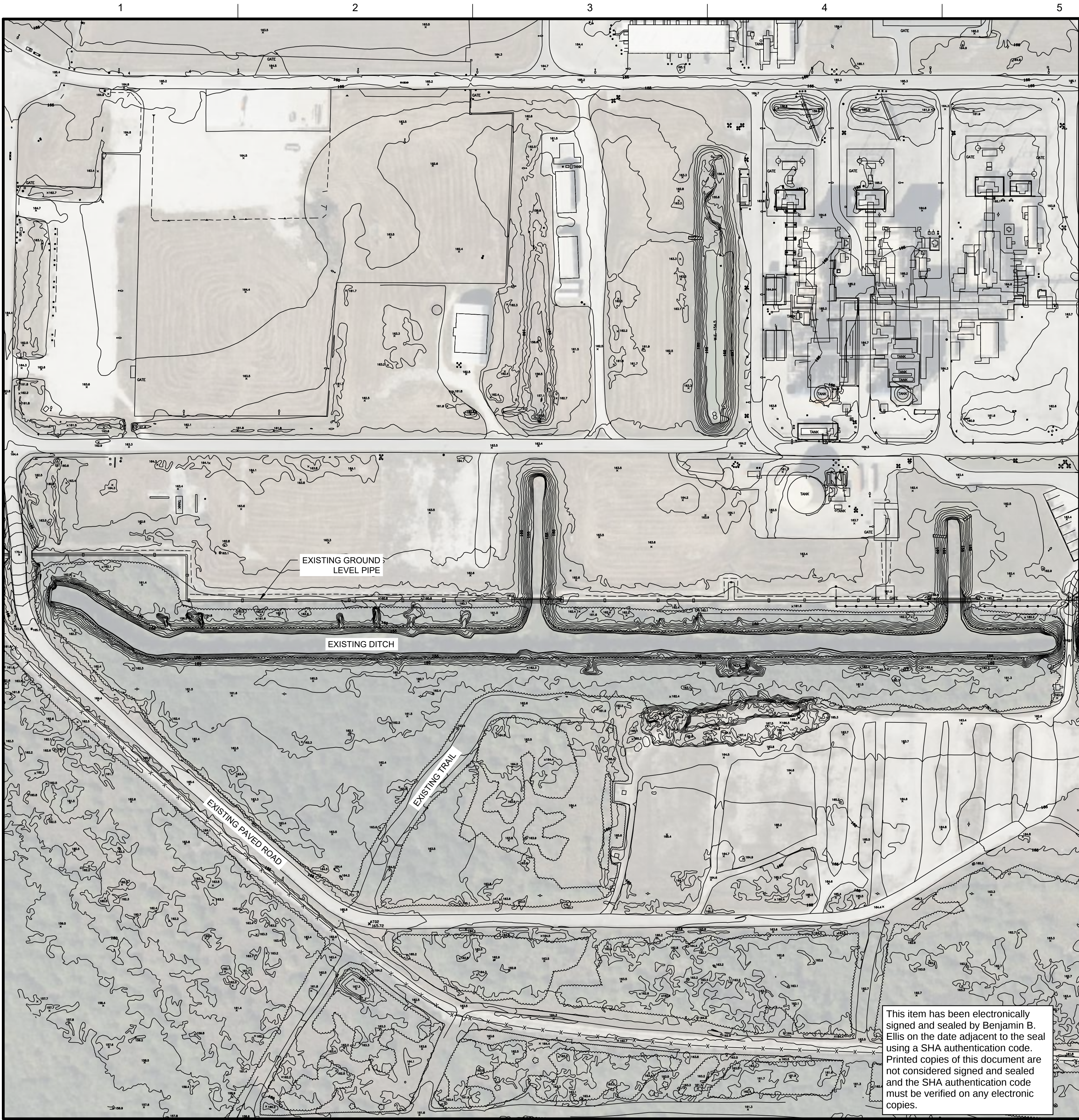
COVER SHEET

FILENAME	COVER SHEET	SHEET
SCALE	N/A	C-000

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1	2	3	4	5	6	7	8		
EROSION CONTROL NOTES:		DEMOLITION NOTES		GENERAL NOTES		SITE GRADING NOTES			
1. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATION BEGINS AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REPLACED AT THE END OF THE WORKDAY. 2. THE FOLLOWING RECORDS SHALL BE MAINTAINED ON OR NEAR SITE: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; THE DATES WHEN STABILIZATION MEASURES ARE INITIATED; INSPECTION RECORDS AND RAINFALL RECORDS. 3. THE CONTRACTOR SHALL MAINTAIN A RAIN GAUGE AND DAILY RAINFALL RECORDS AT THE SITE OR USE A REFERENCE SITE FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION. 4. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 10 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED. 5. CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS. 6. SEDIMENT SHOULD BE REMOVED FROM SEDIMENT TRAPS, SILT FENCES, SEDIMENTATION PONDS AND OTHER SEDIMENT CONTROLS AS NECESSARY AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50% OR AS DIRECTED BY OWNER. 7. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY THE OWNER. 8. THE CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES ONLY AFTER A SOLID STAND OF GRASS HAS BEEN ESTABLISHED ON GRADED AREAS AND WHEN IN THE OPINION OF THE OWNER, THEY ARE NO LONGER NEEDED.		1. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL CHARTED AND UNCHARTED UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. 2. THE CONTRACTOR SHALL VERIFY THE LIMITS OF DEMOLITION WITH THE OWNER PRIOR TO COMMENCEMENT OF WORK. 3. IN AREAS WHERE EXISTING PAVEMENT, WALKS, OR CURBS ARE TO BE REMOVED, SAW CUT TO PROVIDE A CLEAN EDGE. COORDINATE EXTENT OF PAVEMENT DEMOLITION WITH THE LIMIT OF NEW IMPROVEMENTS ON THE SITE LAYOUT PLAN & UTILITY INSTALLATION. 4. CONTRACTOR SHALL COORDINATE PHASING OF THE DEMOLITION WITH OWNER PRIOR TO BEGINNING WORK. DISRUPTION OF EXISTING UTILITY SERVICES AND TRAFFIC PATTERNS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE AND INITIATED ONLY AFTER APPROVAL BY THE OWNER AND THE UTILITY COMPANIES. 5. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE SUITABLY BACKFILLED AND COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. 6. THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION WORK. 7. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL NECESSARY TO ACCOMPLISH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS. 8. THE CONTRACTOR SHALL PRESERVE AND PROTECT SURVEY CONTROL POINTS AND SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY DISTURBED CONTROL POINTS. 9. EXISTING LIGHT FIXTURES BEING REMOVED SHALL BE FIRST OFFERED TO THE OWNER PRIOR TO DISPOSING OF THEM. COORDINATE LIGHTING DEMOLITION AND LAYOUT WITH THE ELECTRICAL DRAWINGS. 10. EXISTING TREES TO BE PRESERVED ARE TO BE PROTECTED BEFORE BEGINNING CONSTRUCTION IN ACCORDANCE WITH THE TREE PROTECTION NOTES ON THIS PLAN AND NOTES/DETAILS ON THE LANDSCAPE PLAN. 11. NO EXISTING STORM SEWER LINES SHALL BE DEMOLISHED UNTIL THE NEW LINES HAVE BEEN INSTALLED AND ARE PLACED INTO OPERATION. 12. WHERE WATER LINE AND SEWER LINE ABANDONMENT IS PLANNED, THE CONTRACTOR MAY ABANDON WATER LINES AND SEWER LINES IN PLACE WHERE THEY OCCUR AT LEAST 24" (TO TOP OF PIPE) BELOW FINAL SUBGRADE ELEVATIONS AND OUTSIDE THE BUILDING FOOTPRINT. ALL UTILITY LINES BEING ABANDONED IN PLACE SHALL HAVE ALL ENDS PERMANENTLY CLOSED USING A CONCRETE PLUG. 13. WHERE EXISTING IRRIGATION LINES LIE WITHIN THE AREA AFFECTED BY THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL REWORK THE EXISTING IRRIGATION SYSTEMS IN ACCORDANCE WITH DIRECTIVES NOTED ON THE LANDSCAPE PLAN. SERVICE SHALL BE MAINTAINED DURING CONSTRUCTION TO THE LANDSCAPED AREAS CURRENTLY IRRIGATED.		1. THE PROJECT SITE IS SHOWN ON POLK COUNTY JURISDICTION, AS PARCEL 24-31-14-000000-011010 AND PARCEL 24-31-13-000000-031010. 2. BASE INFORMATION WAS TAKEN FROM A CADD FILE NAMED "2400137_PLANTOP0" PROVIDED BY DUKE ENERGY DATED 2025-01-29. THIS MAP WAS PRODUCED BY PHOTOGRAMMETRIC METHODS FROM LIDAR DATA AND AERIAL PHOTOGRAPHY. CONTRACTOR TO OBTAIN A RECENT SIGNED AND SEALED SURVEY FROM A FLORIDA LICENSED SURVEYOR, WHICH SHALL INCLUDE THE DATUM USED. HDR AND ANY OF THEIR CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY AND/OR COMPLETENESS OF THAT INFORMATION SHOWN HEREON OR ANY ERRORS OR OMISSIONS RESULTING FROM SUCH. 3. THE SITE LAYOUT IS BASED ON REFERENCE POINTS AS NOTED. 4. THE CONTRACTOR SHALL CHECK ALL EXISTING CONDITIONS, (i.e. INVERTS, UTILITY ROUTINGS, UTILITY CROSSINGS, AND DIMENSIONS) IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE ENGINEER. 5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL CALL NATIONAL ONE CALL (811) 72 HOURS PRIOR TO PROCEEDING WITH ANY EXCAVATION. 6. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION. 7. EXISTING PAVEMENT OF PUBLIC ROADWAYS SHALL BE PATCHED IN ACCORDANCE WITH LOCAL STANDARDS WHEREVER UTILITY INSTALLATION REQUIRES REMOVAL OF THE EXISTING PAVEMENT. COORDINATE PAVEMENT TRENCHING LOCATIONS WITH SITE CIVIL, PLUMBING AND ELECTRICAL PLANS. 8. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. SLIGHT FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. 9. DIMENSIONS ARE TO FACE OF CURB AND/OR EXTERIOR FACE OF BUILDING UNLESS OTHERWISE NOTED. 10. CONCRETE FOR CURBS AND SIDEWALKS SHALL BE 3500 PSI CONCRETE. 11. ANY WORK UNACCEPTABLE TO THE OWNER SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. 12. ACCESSIBLE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12. GRADES WITHIN ACCESSIBLE SPACES SHALL BE MAXIMUM 2% IN ALL DIRECTIONS. 13. THE PROPOSED BUILDING SHALL BE LAID OUT UTILIZING THE EXISTING STRUCTURE AS A CONTROL POINT AND THE ARCHITECTURAL DRAWINGS. DIMENSIONS SHOWN TO THE PROPOSED BUILDING ARE CALCULATED TO THE FACE OF EXTERIOR WALL. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS. 14. CURBS SHALL BE PARALLEL TO THE CENTERLINE OF DRIVES. THE CURB SHALL BE PLACED ONLY AFTER HAVING ALL BREAK POINTS (PC & PT OF CURVES) LOCATED AT THE FACE OF CURB OR AT A CONSISTENT OFFSET BY A REGISTERED LAND SURVEYOR. 15. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION AND CONSTRUCTION ISSUED BY AGC OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS OF CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR. 16. THE CONTRACTOR SHALL PAVE IN THE DIRECTION OF TRAFFIC. 17. THE CONTRACTOR SHALL COLD PLANE IN THE DIRECTION OF TRAFFIC. 18. THE CONTRACTOR WILL BE REQUIRED TO ADJUST GRADES OF INTERSECTING STREETS, ALLEYS, PUBLIC ENTRANCES AND PRIVATE DRIVES AS DIRECTED BY THE ENGINEER. 19. ALL ROADWAY AND SIDEWALK CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF POLK COUNTY. 20. ALL CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO POLK COUNTY. 21. ALL CURBING WILL BE REQUIRED TO ADJUST TO THE GRADES OF INTERSECTING STREETS, ALLEYS, PUBLIC ENTRANCES, AND PRIVATE DRIVES AS DIRECTED BY THE ENGINEER.		1. THE DISTURBED AREA FOR THIS PROJECT IS APPROXIMATELY 1.57 ACRES. 2. THE SUBJECT PROPERTY DOES LIE WITHIN A SPECIAL FLOOD HAZARD ZONE (ZONE A) ACCORDING TO COMMUNITY PANEL NO. 12105C0675G AND NO. 12105C0700G OF THE F.E.M.A. FLOOD INSURANCE RATE MAPS FOR POLK COUNTY, FL, WITH AN EFFECTIVE DATE OF 12/22/2016. 3. CONSTRUCT SILT BARRIERS BEFORE COMMENCING ANY GRADING OPERATIONS REFER TO EROSION CONTROL SHEETS. 4. MULCH AND SEED ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED, UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION. 5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. 6. PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT. 7. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE STORM DRAIN CONNECTIONS AT THE BUILDING WITH THE PLUMBING PLANS. 8. THE CONTRACTOR SHALL CHECK ALL EXISTING GRADES AND DIMENSIONS IN THE FIELD PRIOR TO BEGINNING WORK AND REPORT ANY DISCREPANCIES TO THE ENGINEER. 9. THE CONTRACTOR SHALL ADJUST THE CASTINGS OF ALL NEW AND EXISTING STRUCTURES TO MATCH PROPOSED FINISH GRADES. 10. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION AND CONSTRUCTION ISSUED BY AGC OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS OF CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR. 11. PROPOSED CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF AN ENGINEERED GRADING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE AND MOVEMENT OF MATERIALS. SHOULD THE CONTRACTOR HAVE ANY QUESTION OF THE INTENT OR ANY PROBLEM WITH THE CONTINUITY OF GRADES, THE ENGINEER SHALL BE CONTACTED IMMEDIATELY. 12. ALL CUT AND FILL SLOPES SHALL BE 3 HORIZONTAL TO 1 VERTICAL OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS. 13. ALL PIPES UNDER EXISTING PAVED AREAS SHALL BE BACKFILLED TO THE TOP OF SUBGRADE WITH CRUSHED STONE. 14. MINIMUM GRADE ON ASPHALT OR CONCRETE PAVING SHALL BE 1.0%. THE MAXIMUM GRADES WITHIN ACCESSIBLE SPACES SHALL BE 2% IN ANY DIRECTION. 15. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE CODES AND OBTAIN APPROVAL AS NECESSARY BEFORE BEGINNING CONSTRUCTION. 16. ALL EARTHWORK, INCLUDING THE EXCAVATED SUBGRADE AND EACH LAYER OF FILL, SHALL BE MONITORED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER, OR HIS/HER REPRESENTATIVE. 17. IF ANY SPRINGS OR UNDERGROUND STREAMS ARE EXPOSED DURING CONSTRUCTION PERMANENT FRENCH DRAINS MAY BE REQUIRED. THE DRAINS SHALL BE SPECIFIED AND LOCATED DURING CONSTRUCTION AS REQUIRED BY THE CONDITIONS WHICH ARE ENCOUNTERED, AND SHALL BE APPROVED BY THE ENGINEER. 18. THIS GRADING & DRAINAGE PLAN IS NOT A DETERMINATION OR GUARANTEE OF THE SUITABILITY OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED. A GEOTECHNICAL SOILS REPORT HAS BEEN PREPARED AND IS AVAILABLE FROM THE OWNER. DETERMINATION OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. 19. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO COMPACT FILL SUFFICIENTLY AROUND AND OVER ALL PIPES, STRUCTURES, VALVE STEMS, ETC., INSIDE THE PROPOSED PAVED AREAS TO AVOID SETTLEMENT. ANY SETTLEMENT DURING THE WARRANTY PERIOD SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. 20. IN NO CASE SHALL SLOPE, HEIGHT, SLOPE INCLINATION, OR EXCAVATION DEPTH, INCLUDING TRENCH CONSTRUCTION, EXCEED THOSE SPECIFIED IN LOCAL, STATE AND FEDERAL REGULATIONS, SPECIFICALLY THE CURRENT OSHA HEALTH AND SAFETY STANDARDS FOR EXCAVATIONS (29 CFR PART 1926) SHALL BE FOLLOWED. 21. DO NOT DISTURB VEGETATION OR REMOVE TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES. 22. STRIP TOPSOIL FROM ALL CUT AND FILL AREAS AND STOCKPILE UPON COMPLETION OF GENERAL GRADING OVER ALL DISTURBED AREAS, TO A MINIMUM DEPTH OF 6". CONTRACTOR SHALL SUPPLY ADDITIONAL TOP SOIL IF INSUFFICIENT QUANTITIES EXIST ON SITE.		23. TOP OF GRATE ELEVATIONS AND LOCATION OF COORDINATES FOR DRAINAGE STRUCTURES SHALL BE AS SHOWN ON THE DETAIL, UNLESS NOTED OTHERWISE. THE GRATES SHALL SLOPE LONGITUDINALLY WITH THE PAVEMENT GRADES. 24. ALL DRAINAGE CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF POLK COUNTY. 25. POSITIVE DRAINAGE SHALL BE ESTABLISHED AS THE FIRST ORDER OF WORK AND SHALL BE MAINTAINED AT ALL TIMES DURING AND AFTER CONSTRUCTION. SOIL SOFTENED BY PERCHED WATER IN FOUNDATION AND PAVEMENT AREAS MUST BE UNDERCUT AND REPLACED WITH SUITABLE FILL MATERIALS APPROVED BY THE GEOTECHNICAL ENGINEER. GROUNDWATER INFILTRATION INTO EXCAVATIONS SHOULD BE EXPECTED, AND THE WATER SHALL BE REMOVED USING GRAVITY DRAINAGE OR PUMPING. 26. REINFORCED CONCRETE STORM DRAINAGE PIPE SHALL BE CLASS III, WALL "B". HDPE SHALL BE CORRUGATED, SMOOTH WALL N-12 PIPE WITH SOIL TIGHT JOINTS. 27. FILL SLOPES 3:1 AND GREATER SHALL BE PLACED AND COMPACTED 5' BEYOND PROPOSED LIMITS AND THEN EXCAVATED BACK TO THE PROPOSED LOCATION. 28. THE CONTRACTOR SHALL PROVIDE AN ASBUILT SURVEY STAMPED BY A LICENSED SURVEYOR IN THE STATE OF FLORIDA OF ALL PUBLIC STORM SYSTEMS, ONSITE DETENTION PONDS, AND WATER QUALITY MEASURES VERIFYING COMPLIANCE WITH DESIGN DOCUMENTS. 29. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 72 HOURS PRIOR TO INSTALLATION OF THE WATER QUALITY DEVICES. 30. FILL IN GREATER QUANTITIES OF 500 CY NEEDS TO HAVE CURRENT CONTAMINATION TESTING. ALL FILL MUST COME FROM AN FDOT APPROVED BURROW PIT. 31. ANY DISTURBED SOIL IN THE CUT OR FILL AREAS WILL NEED TO BE COMPACTED IN 1 FOOT LIFTS AND MEET A MINIMUM DENSITY OF 98% AS REQUIRED BY AASHTO T-180.	
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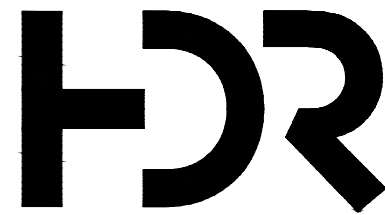
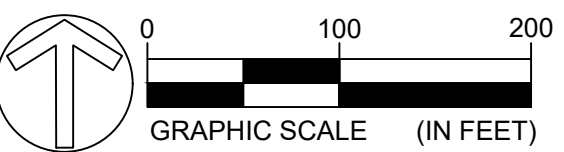
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- LEGEND**
- EXISTING TREELINE
 - EXISTING CONTOURS
 - EXISTING EDGE OF PAVEMENT (ASPHALT)
 - EXISTING SPOT ELEVATIONS
 - EXISTING POWER POLE
 - EXISTING TREE

- SHEET NOTES**
- EXISTING CONDITIONS WERE OBTAINED FROM CADD FILE NAMED "2400137_PLANTOP0.DWG" PROVIDED BY DUKE ENERGY ON 2025-01-29. VERTICAL DATUM NOT PROVIDED; IT IS ASSUMED TO BE NAVD 88. CONTRACTOR TO OBTAIN A RECENT SIGNED AND SEALED SURVEY FROM A FLORIDA LICENSED SURVEYOR, WHICH SHALL INCLUDE THE DATUM USED.
 - EXISTING CONDITIONS SHOWN ARE LIMITED. IT IS NOT INCLUSIVE OF ALL EXISTING FEATURES WITHIN THE PROJECT SITE. THE DATA IS PROVIDED FOR REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING CONDITIONS.
 - AREA 3 NOT SURVEYED, SHOWN FOR CLARITY.

- SURVEYORS NOTES**
- THIS MAPPING PRODUCT WAS REQUESTED BY THE CLIENT TO BE PREPARED WITH AN EQUIVALENT LEGACY MAPPING SCALE OF 1:600 MAPPING SCALE WHICH IS EQUIVALENT TO A HORIZONTAL ACCURACY OF 1.22 FEET AT THE 95% CONFIDENCE INTERVAL.
 - THIS MAP WAS PRODUCED BY PHOTOGRAMMETRIC METHODS FROM LIDAR DATA AND AERIAL PHOTOGRAPHY.
 - COMPILED VECTOR FEATURES HAVE BEEN PRODUCED TO MEET A HORIZONTAL ACCURACY OF 1.22 FEET AT THE 95% CONFIDENCE INTERVAL IN CLEAR UNOBSURED AREAS. PLANIMETRIC FEATURES THAT LIE IN AREAS DELINEATED AS "VISUALLY OBTAINED" MAY NOT ADHERE TO THIS ACCURACY.
 - THE GROUND SURFACE WAS PRODUCED TO MEET A 0.30 FOOT VERTICAL ACCURACY CLASS, IN CLEAR UNOBSURED AREAS, TO SUPPORT THE GENERATION OF 1-FOOT CONTOUR INTERVALS.
 - THE DELIVERED ELEVATION SURFACE IS THE SOURCE FOR ANY DELIVERED DERIVATIVE PRODUCTS (E.G. CONTOURS). THE PROJECT'S ELEVATION SURFACE, AS DELIVERED TO THE CLIENT, SHOULD BE UTILIZED AS THE SOURCE FOR THE CREATION OF FURTHER DERIVATIVE ELEVATION PRODUCTS OR SUBSEQUENT COMPUTATIONS.
 - LIDAR DATA WAS COLLECTED NOMINALLY AT ~38 POINTS PER SQUARE METER (PPM), RESULTING IN AN EQUIVALENT 6.9 CM NOMINAL POINT SPACING, TO SUPPORT THE PRODUCTS DELIVERED.
 - IMAGERY WAS COLLECTED TO SUPPORT THE ORTHORECTIFICATION OF 2.7 INCH GROUND SAMPLE DISTANCE (GSD) IMAGERY.
 - DATE OF AERIAL IMAGERY CAPTURE: SEPTEMBER 17TH, 2024.
 - DATE OF LIDAR CAPTURE: SEPTEMBER 17TH, 2024.



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EXISTING CONDITIONS

FILENAME	EXISTING CONDITIONS	SHEET
SCALE	1" = 100'	C-002



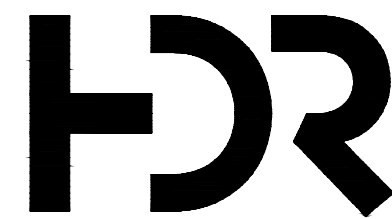
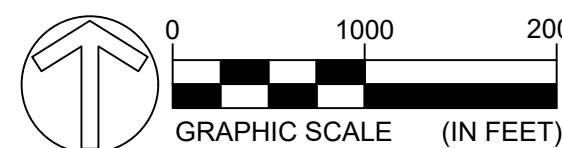
SAND BORROW

AREA 3

AREA 1

AREA 2

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OVERALL SITE KEY PLAN

FILENAME	OVERALL SITE KEY PLAN	SHEET	
SCALE	1" = 1000'		C-003

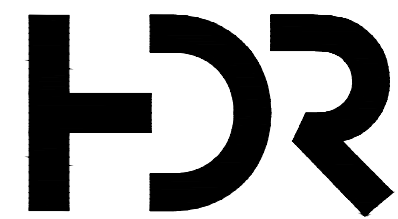
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- LEGEND**
- EXISTING TREELINE
 - REMOVE EXISTING TREELINE
 - EXISTING CONTOURS
 - EXISTING EDGE OF PAVEMENT (ASPHALT)
 - EXISTING SPOT ELEVATIONS
 - EXISTING POWER POLE
 - EXISTING TREE

- SHEET NOTES**
- EXISTING CONDITIONS WERE OBTAINED FROM CADD FILE NAMED "2400137_PLANTOP.DWG" PROVIDED BY DUKE ENERGY ON 2025-01-29. VERTICAL DATUM NOT PROVIDED; IT IS ASSUMED TO BE NAVD 88. CONTRACTOR TO OBTAIN A RECENT SIGNED AND SEALED SURVEY FROM A FLORIDA LICENSED SURVEYOR, WHICH SHALL INCLUDE THE DATUM USED.
 - EXISTING CONDITIONS SHOWN ARE LIMITED. IT IS NOT INCLUSIVE OF ALL EXISTING FEATURES WITHIN THE PROJECT SITE. THE DATA IS PROVIDED FOR REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING CONDITIONS.
 - AREA 3 NOT SURVEYED. SHOWN FOR CLARITY. NO DEMOLITION IN THIS AREA.

- KEYNOTES**
- REMOVE VEGETATION.



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OVERALL DEMOLITION PLAN

FILENAME	DEMOLITION PLAN	SHEET
SCALE	1" = 100'	C-010

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- LEGEND**
- SF — SILT FENCE
 - CONSTRUCTION ENTRANCE
 - WETLAND LIMITS
 - PROPOSED BRINE PONDS
 - LOD — LIMIT OF DISTURBANCE
 - EXISTING TREELINE
 - 160 — EXISTING CONTOURS
 - EXISTING EDGE OF PAVEMENT (ASPHALT)
 - x — x — x — EXISTING BURIED ELECTRICAL
 - EXISTING SPOT ELEVATIONS
 - EXISTING POWER POLE
 - EXISTING TREE

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AREA 1 - EROSION CONTROL PLAN

FILENAME	EROSION CONTROL PLAN	SHEET
SCALE	1" = 30'	C-021

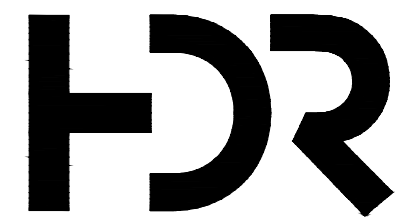
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- LEGEND**
- ROADWAY CENTERLINE
 - PROPOSED GRAVEL
 - PROPOSED BRINE PONDS
 - EXISTING TREELINE
 - EXISTING CONTOURS
 - EXISTING EDGE OF PAVEMENT (ASPHALT)
 - EXISTING POWER POLE
 - EXISTING SPOT ELEVATIONS
 - EXISTING POWER POLE
 - EXISTING TREE

- SHEET NOTES**
- EXISTING CONDITIONS WERE OBTAINED FROM CADD FILE NAMED "2400137_PLANTOP0.DWG" PROVIDED BY DUKE ENERGY ON 2025-01-29. VERTICAL DATUM NOT PROVIDED; IT IS ASSUMED TO BE NAVD 88. CONTRACTOR TO OBTAIN A RECENT SIGNED AND SEALED SURVEY FROM A FLORIDA LICENSED SURVEYOR, WHICH SHALL INCLUDE THE DATUM USED.
 - EXISTING CONDITIONS SHOWN ARE LIMITED. IT IS NOT INCLUSIVE OF ALL EXISTING FEATURES WITHIN THE PROJECT SITE. THE DATA IS PROVIDED FOR REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING CONDITIONS.
 - PROPOSED BRINE PONDS SHOWN HEREIN ARE FOR REFERENCE ONLY; TO BE DESIGNED BY CONTRACTOR.

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HDR Engineering, Inc.
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Orlando, Florida 32801
Phone: (407) 420-4200
Certificate of Authorization #: 4213

B	09/11/2025	WETLAND LINE AND BRINE POND UPDATE
A	02/28/2025	FOR REVIEW
ISSUE	DATE	DESCRIPTION

LMF	KSL	DBD	
DRAWN	ENGINEER	CHECKED	APPROVED

ISSUED FOR PERMITTING



OVERALL SITE PLAN

FILENAME
SCALE

SITE PLAN
1" = 100'

SHEET

C-100

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LEGEND

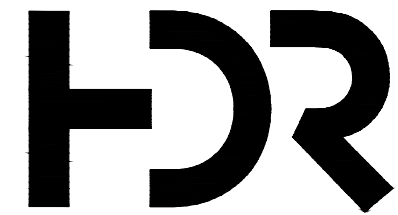
- ROADWAY CENTERLINE
- PROPOSED GRAVEL
- EXISTING TREELINE
- EXISTING CONTOURS
- EXISTING EDGE OF PAVEMENT (ASPHALT)
- EXISTING POWER POLE
- EXISTING SPOT ELEVATIONS
- FLOW ARROW
- EXISTING POWER POLE
- EXISTING TREE

SHEET NOTES

- EXISTING CONDITIONS WERE OBTAINED FROM CADD FILE NAMED "2400137_PLANTOP.DWG" PROVIDED BY DUKE ENERGY ON 2025-01-29. VERTICAL DATUM NOT PROVIDED; IT IS ASSUMED TO BE NAVD 88. CONTRACTOR TO OBTAIN A RECENT SIGNED AND SEALED SURVEY FROM A FLORIDA LICENSED SURVEYOR, WHICH SHALL INCLUDE THE DATUM USED.
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GRAPHIC SCALE (IN FEET)

0 100 200



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DRAWN	ENGINEER	CHECKED	APPROVED

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OVERALL GRADING AND DRAINAGE
PLAN

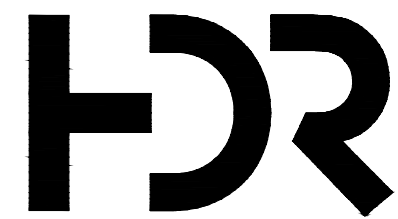
FILENAME
SCALE

GRADING AND
DRAINAGE PLAN
1" = 100'

SHEET
C-200



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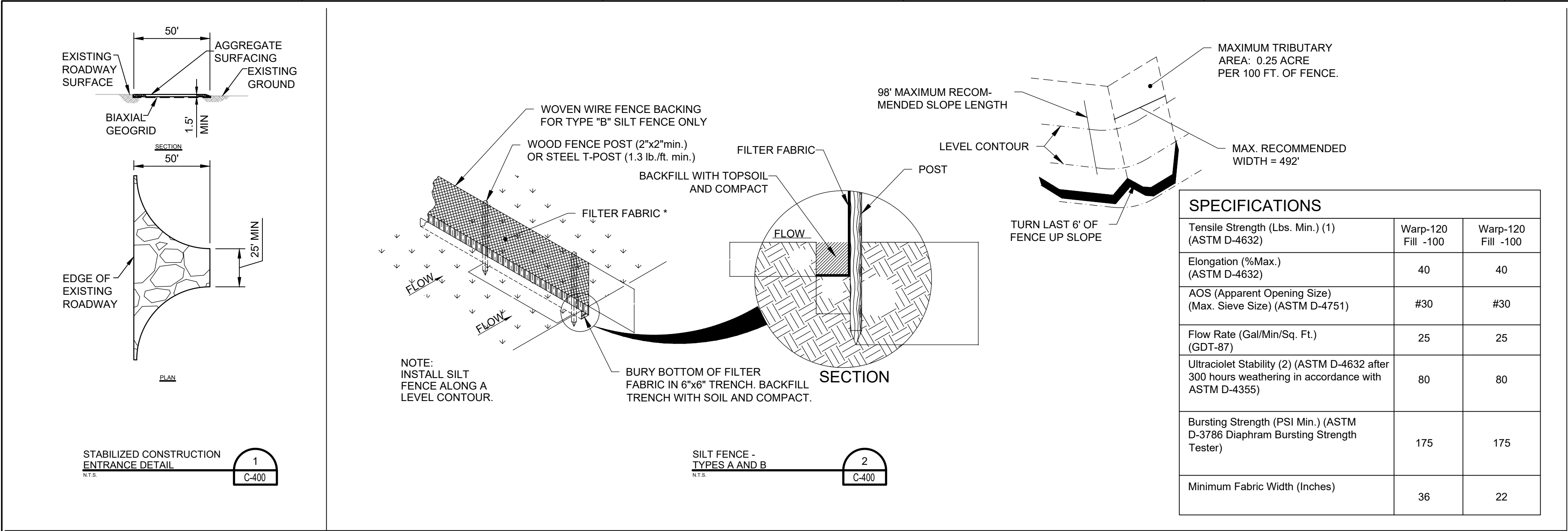


B	09/11/2025	WETLAND LINE AND BRINE POND UPDATE				
A	02/28/2025	FOR REVIEW				
ISSUE	DATE	DESCRIPTION	DRAWN	ENGINEER	CHECKED	APPROVED

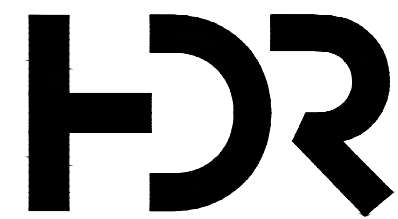


FILENAME	GRADING AND DRAINAGE PLAN	SHEET	
SCALE	1" = 30'		C-202

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B	09/11/2025	WETLAND LINE AND BRINE POND UPDATE	LMF	KSL	DBD
A	02/28/2025	FOR REVIEW	DRAWN	ENGINEER	CHECKED
ISSUE	DATE	DESCRIPTION			APPROVED

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FILENAME
SCALE

DETAILS
N/A

SHEET

C-400