PRELIMINARY/FINAL DEVELOPMENT PLANS

FOR:

ORIGIS ENERGY - SAND BLUFF SOLAR FACILITY

ALACHUA COUNTY, FLORIDA

SECTION 46, 35, 26 TOWNSHIP 11 SOUTH, RANGE 18 EAST

SUBMITTED TO:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
ALACHUA COUNTY

GENERAL NOTES

1. PROJECT NAME:

SAND BLUFF SOLAR FARM

2. PROJECT DESCRIPTION:

A ± 603 ACRE, 74.9 MW SOLAR ENERGY FACILITY AS WELL AS ASSOCIATED STORMWATER MANAGEMENT FACILITIES, ACCESS IMPROVEMENTS AND ELECTRIC UTILITY ROUTING.

3. PROJECT ADDRESS:

TBD

4. TAX PARCEL NUMBER(S):

05291-000-0000, 05198-000-000, 05197-000-000, 05224-000-000, 04741-000-000

5. ENGINEERS OF RECORD:
MITCHELL MASON P.E.
CHW
11801 RESEARCH DRIVE
ALACHUA, FLORIDA 32615
(352) 331-1976
mitchellm@chw-inc.com

6. NUMBER OF UNITS/AREA OF BUILDINGS:

1000 SF

7. DENSITY:

N/A

8. PHASING:

N/A

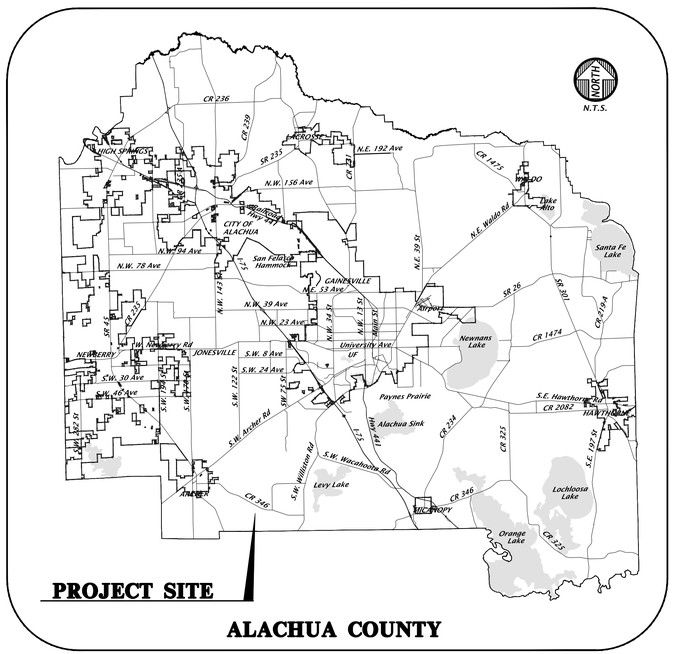
9. DEVELOPMENT CRITERIA:

TYPE	CRITERIA	REQUIRED	PROVIDED
BUFFERS	75' WIDE HIGH DENSITY LANDSCAPE BUFFER	75' WIDE HIGH DENSITY LANDSCAPE BUFFER	75' WIDE HIGH DENSITY LANDSCAPE BUFFER
TREE CANOPY	RETAIN 20% OF EXISTING CANOPY	1.21 AC.	3.54 AC.
TREE CANOPY	N/A	N/A	N/A
PARKING	N/A	N/A	6
BICYCLE PARKING	N/A	N/A	N/A
MOTORCYCLE PARKING	N/A	N/A	N/A

10. DEVELOPMENT SITE AREA:

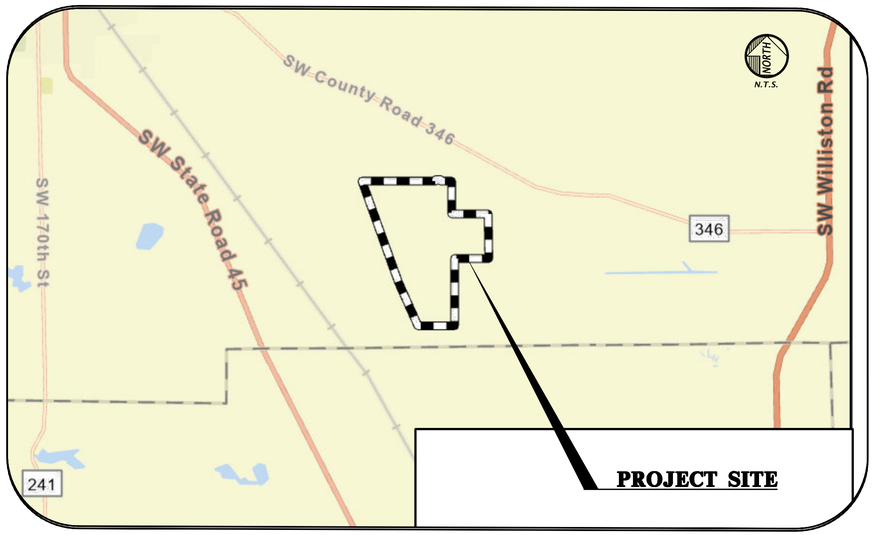
TYPE	ACRES	SF	% OF TOTAL
TOTAL PROJECT AREA:	603 AC	26,250,570 SF	
NON-RESIDENTIAL BUILDING AREA:	0.02 AC	1000 SF	0%
ROW/PAVEMENT/SIDEWALK/EASEMENTS AREA:	9.50 AC	81,075 SF	1.58%
EXISTING IMPERVIOUS AREA:	1.28 AC	55,776 SF	0.2%
PROPOSED IMPERVIOUS AREA:	11.06 AC	481,773 SF	1.83%
TOTAL IMPERVIOUS AREA:	12.34 AC	537,530 SF	2.05%
CONSERVATION/PRESERVATION AREA:	N/A	N/A	N/A
STORMWATER MANAGEMENT AREA:	18.84 AC	820,670 SF	3.12%
FLOOD PLAINS AREA:	N/A	N/A	N/A
WETLANDS AREA:	0.53 AC	22,938 SF	0.09%
SURFACE WATER AREA:	N/A	N/A	N/A
STRATEGIC ECOSYSTEMS AREA:	N/A	N/A	N/A
SIGNIFICANT/LISTED SPECIES AREA:	N/A	N/A	N/A
BUFFERS/SCREENING AREA:	41.48 AC	1,806,910 SF	6.87%
GEOLOGICAL FEATURES AREA:	N/A	N/A	N/A

SHEET INDEX



ALACHUA COUNTY

VICINITY MAP



LOCATION MAP

BEFORE YOU DIG !
CALL SUNSHINE STATE ONE CALL OF FLORIDA
AT LEAST TWO FULL BUSINESS DAYS BEFORE DIGGING OR DISTURBING EARTH

811
Know what's **below.**
Call before you dig.

1-800-432-4770

GRU NOTIFICATIONS

1. NOTIFY GRU WASTEWATER ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION AT 352-393-1633; IF PROPER NOTIFICATION IS NOT MADE, CONTRACTOR IS SUBJECT TO STOP WORK ORDER.

2. NOTIFY GRU ELECTRIC INSPECTIONS 48 HOURS PRIOR TO CONSTRUCTION AT 352-339-0430; IF PROPER NOTIFICATION IS NOT MADE, CONTRACTOR IS SUBJECT TO BE SHUT DOWN.

FOR REVIEW ONLY
GRU CERTIFICATION

THE WATER & WASTEWATER SYSTEM DESIGN IS IN ACCORDANCE WITH CURRENT GRU DESIGN STANDARDS.

DATE: _____

11801 Research Drive
Alachua, FL 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075
CHW Professional Consultants

SCALE: N/A

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

SUBMITTAL:
06/05/2023 - SUBMITTAL TO ALACHUA COUNTY
07/21/2023 - SUBMITTAL TO ALACHUA COUNTY
09/05/2023 - SUBMITTAL TO ALACHUA COUNTY
09/21/2023 - SUBMITTAL TO ALACHUA COUNTY

CONSTRUCTION/BID REVISIONS:

CLIENT: ORIGIS ENERGY
PROJECT: ORIGIS ENERGY SOLAR FACILITY
SHEET TITLE: COVER SHEET AND INDEX

TECHNICIAN: KT MCMAHON
DESIGNER: KATHRYN JACKSON
QUALITY CONTROL: M MASON
PROJECT NUMBER: 22-0264

MITCHELL G. MASON

Mitchell G. Mason, P.E.
State of Florida, Professional Engineer, License No. 92335

This item has been digitally signed and sealed by Mitchell G. Mason, P.E. on the date indicated here. 09/21/2023

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

FL PE No. 92335

SHEET NO.:
C0.00

GENERAL NOTES

1. THE TOPOGRAPHIC AND EXISTING INFORMATION SHOWN HEREON WERE TAKEN FROM A TOPOGRAPHIC SURVEY PREPARED BY ARDAMAN AND ASSOCIATES, AND DATED MAY 19, 2023.
2. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAS BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. THE RESPECTIVE UTILITY COMPANIES SHALL RELOCATE ALL UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING THE RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE APPROPRIATE UTILITY COMPANIES IN ORDER TO ALLOW MARKING OF THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES IN ADVANCE OF CONSTRUCTION BY CALLING THE FLORIDA SUNSHINE STATE ONE-CALL CENTER, INC. AT 1-800-432-4770 OR 811. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "SUNSHINE" 48 HOURS PRIOR TO ANY CLEARING OF CONSTRUCTION TO IDENTIFY ALL UTILITY LOCATIONS. NO CONSTRUCTION ACTIVITY MAY OCCUR UNTIL THE UTILITIES HAVE BEEN PROPERLY MARKED.
4. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL LOCATION AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE PROJECT ENVELOPE SHOWN PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CALL ALL UTILITY COMPANIES TO HAVE THE LOCATIONS OF ALL UTILITIES FIELD MARKED PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONTINUING CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.
6. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
7. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK INCLUDING LANDSCAPING.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY AND/OR MUNICIPALITY INSTRUCTIONS.
9. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED, AND PERMITTED THROUGH LOCAL GOVERNMENTAL AGENCIES AND WATER MANAGEMENT DISTRICT PER CURRENT REGULATIONS AT THE SOLE COST OF THE CONTRACTOR.
11. CONTRACTOR TO REVIEW GEOTECHNICAL REPORT AND BORINGS PRIOR TO BIDDING THE PROJECT AND FOLLOW OUTLINED CONSTRUCTION TECHNIQUES.
12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SERVICES OF AN APPROVED TESTING LABORATORY AND/OR SOILS ENGINEER, APPLICABLE REGULATORY AGENCIES, AND AS MAY BE FOUND IN THE ENGINEERING CONSTRUCTION DRAWINGS OR SPECIFICATIONS. CONTRACTOR TO VERIFY ALL TESTING WITH THE OWNER PRIOR TO COMMENCING CONSTRUCTION. UPON COMPLETION OF THE WORK, THE TESTING LABORATORY AND/OR SOILS ENGINEER MUST SUBMIT TO THE OWNER'S ENGINEER CERTIFICATIONS STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
13. INSTALL SILT FENCE PRIOR TO SITE DEMOLITION OR NEW SITE CONSTRUCTION. INSTALL SILT FENCE PER FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL AND PROVIDE TOE-IN. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCE IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE PROJECT SILT FENCE SHALL BE INSPECTED DAILY AND ANY CORRECTIVE MEASURES SHALL BE COMPLETED WITHIN 24 HOURS.
14. ALL TREE BARRICADES AND SILT FENCING SHALL BE INSTALLED AND INSPECTED BY ALACHUA COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION ACTIVITIES.
15. THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
16. ALL DELETERIOUS MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER'S ENGINEER OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED AND REMOVED FROM THE SITE. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE AREAS.
17. CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS SHALL BE SODDED, SEEDED, MULCHED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, AS DIRECTED BY THESE PLANS, IMMEDIATELY FOLLOWING CONSTRUCTION PER LOCAL INSPECTOR.
18. WORK BEING PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON THE SITE BY OTHER CONTRACTORS AND/OR UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.
19. ALL PAVEMENT DIMENSIONS SHOWN ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
20. THE GOVERNING STANDARDS AND SPECIFICATIONS, UNLESS STATED OTHERWISE SHALL BE PER FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS (FY 2023-24 ROAD CONSTRUCTION), AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JANUARY 2023, AS AMENDED BY CONTRACT DOCUMENTS. ALL MATERIALS AND METHODS SHALL MEET FDOT SPECIFICATIONS AND SHALL BE PRODUCED OR OBTAINED FROM AN FDOT APPROVED SOURCE.
21. ALL NEW TRAFFIC CONTROL DEVICES (SIGNS AND PAVEMENT MARKINGS) SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT STANDARDS.
22. ALL STRIPING WITHIN THE COUNTY RIGHT OF WAY SHALL BE PLACED FIRST AS TEMPORARY STRIPING FOLLOWED BY APPLICATION OF THERMOPLASTIC STRIPING 30 DAYS LATER.
23. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROPER BENCHMARKS ON-SITE. EXISTING BENCH MARKS SCHEDULED FOR REMOVAL SHALL BE RELOCATED AT CONTRACTORS EXPENSE AND RE-ESTABLISHED BY A LICENSED SURVEYOR.
24. ALL HANDICAP RAMPS SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE AND AMERICANS WITH DISABILITIES ACT.
25. A PRE-CONSTRUCTION CONFERENCE SHALL BE REQUIRED. THE CONTRACTOR, ENGINEER OF RECORD, AND THE OWNER SHALL MEET WITH THE ALACHUA COUNTY PUBLIC WORKS DEPARTMENT PRIOR TO INITIATION OF SITE CONSTRUCTION.
26. ANY CHANGE ORDER REQUESTS, SITE REVISIONS, AND PAY REQUESTS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD.
27. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NEEDED THROUGHOUT ALL CONSTRUCTION ACTIVITIES COVERED BY THESE PLANS. DEWATERING SHALL BE DONE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS, 2018 EDITION, SECTION 120.
28. THE CONTRACTOR IS RESPONSIBLE FOR THE PERFORMANCE AND COST OF ALL CLEARING AND GRUBBING AND ALL WORK OF REMOVAL, DISPOSAL, AND REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS WHERE SHOWN IN THE PLANS, OR ORDERED BY THE ENGINEER TO BE REMOVED, OR WHERE REQUIRED BECAUSE OF THE CONSTRUCTION OPERATIONS, IN ORDER TO CONSTRUCT THE PROPOSED IMPROVEMENTS (THIS INCLUDES BUT IS NOT LIMITED TO PROPOSED PIPING, STRUCTURES, UTILITIES, PAVING, CURBING, ETC.).
29. AN AS-BUILT SURVEY MAY BE REQUIRED BY REGULATORY AGENCIES. CONTRACTOR TO COORDINATE WITH PROJECT OWNER FOR COMPLETION OF AS-BUILT SURVEYS PRIOR TO PROJECT / PERMIT CLOSE-OUT.

NOTE: DEVELOPER AND GRU WILL USE THE PW ROW USE PERMIT APPLICATION FOR THE WORK WITHIN THE SW 122ND STREET ROW.

MAINTENANCE OF TRAFFIC (MOT) NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR CREATING A MAINTENANCE OF TRAFFIC (MOT) PLAN FOR CONSTRUCTION ACTIVITY THAT OCCURS WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO SIDEWALK WORK AND ACTIVITIES THAT REQUIRE A LANE (OR ROAD) CLOSURE, SUCH AS CONNECTION TO SEWER MANHOLES AND WATER MAINS. THE MOT PLAN MUST BE CREATED BY A REGISTERED PROFESSIONAL ENGINEER WHO IS CERTIFIED TO DO SO BY THE FDOT MOT CERTIFICATION TRAINING. THE MOT PLAN MUST ALSO BE IN ACCORDANCE WITH FDOT STANDARDS PLANS AND FDOT STANDARD SPECIFICATIONS REQUIREMENTS AND MUST BE REVIEWED AND APPROVED BY THE COUNTY.
2. THE CONTRACTOR SHALL SUBMIT THE MOT TO THE APPROPRIATE REGULATORY AUTHORITY PRIOR TO WORK REQUIRING THE MOT FOR APPROVAL. NO WORK IN THE ROW SHALL OCCUR UNTIL THE MOT IS APPROVED.

DEMOLITION GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLITION MATERIALS IN A SAFE AND LAWFUL MANNER. THE CONTRACTOR SHALL SALVAGE TO THE OWNER ANY ITEM AS DETERMINED BY THE OWNER. ONCE DEMOLISHED, MATERIAL SHALL BE DISPOSED OF PROPERLY AND IMMEDIATELY.
2. REMOVE ALL IMPROVEMENTS DEFINED ON THE DEMOLITION PLAN. SALVAGE ITEMS TO OWNER AS DEFINED BY THE OWNER'S REPRESENTATIVE AND CONSTRUCTION DOCUMENT SPECIFICATIONS.
3. EXISTING PAVEMENT AND SIDEWALK EDGES THAT BORDER NEW CONSTRUCTION OR DEMOLITION ARE TO BE SAW-CUT TO PROVIDE A SMOOTH TRANSITION.
4. ALL EXISTING TREES ARE TO REMAIN UNLESS OTHERWISE NOTED.
5. ROOTS LARGER THAN 1 INCH IN DIAMETER ON TREES TO BE PRESERVED THAT ARE ENCOUNTERED DURING CONSTRUCTION MUST BE CUT CLEANLY AND COVERED OVER WITH SOIL BY THE END OF THE WORKING DAY.
6. ALL ASPHALT AND LIMEROCK WILL BE COMPLETELY REMOVED FROM AREAS THAT WILL BE LANDSCAPED. IN PARTICULAR, AREAS WHERE ASPHALT WILL BE REMOVED MUST HAVE THE TOP HARD SURFACE, LIMEROCK, AND COMPACTED SOIL REMOVED. REPLACEMENT SOIL SHALL BE CLEAN DEEP FILL OF PH 5.5 - 6.5. THE DEPTH OF UNCOMPACTED SOIL PRIOR TO PLANTING MUST BE AT LEAST 3 FEET TO ACCOMMODATE FUTURE TREE ROOT GROWTH. NO LIMEROCK, LARGE STONES, OR OTHER CONSTRUCTION DEBRIS CAN REMAIN IN AREAS TO BE LANDSCAPED.

PAVING, GRADING, AND DRAINAGE GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL PRACTICES DURING CONSTRUCTION TO MINIMIZE ON-SITE EROSION/SEDIMENTATION AND TO PROTECT AGAINST DAMAGE TO OFF SITE PROPERTY. THE FOLLOWING PRACTICES SHALL BE EMPLOYED:
   - A. A. EROSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AREAS OF OFF-SITE DISCHARGE DURING CONSTRUCTION SHALL BE PROTECTED WITH A SEDIMENT BARRIER PER FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL TO PREVENT OFF-SITE DISCHARGE OF SEDIMENTS. A SILT BARRIER SHALL SPECIFICALLY BE REQUIRED, CONSTRUCTED, AND MAINTAINED AS INDICATED ON THIS SHEET. TEMPORARY SEED AND MULCH SHOULD BE USED TO CONTROL ON-SITE EROSION WHEN IT IS NOT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. SOD SHALL BE PLACED AS EARLY AS POSSIBLE ON ALL SLOPES STEEPER THAN 5 (FT) HORIZONTAL TO 1 (FT) VERTICAL. SOD SHALL BE PINNED AS REQUIRED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL INSPECT AND REPAIR AS NECESSARY THE EROSION/SEDIMENTATION PROTECTION AT THE END OF EACH WORKING DAY.
   - B. NOTE: EROSION/SEDIMENTATION CONTROL SHALL BE PLACED PRIOR TO SITE EXCAVATION AND SHALL REMAIN IN PLACE UNTIL SITE VEGETATION AND LANDSCAPING IS COMPLETE.
   - C. B. ALL INLET STRUCTURES AND PIPE SHALL BE PROTECTED FROM SILTATION BY CONSTRUCTING INLET PROTECTION AS DEFINED BY THESE PLANS OR IN THE FDOT STANDARDS. IF SILTATION OCCURS, THE CONTRACTOR IS RESPONSIBLE TO REMOVE SILTATION AS PART OF THE BASE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
   - D. C. EXCAVATED STORMWATER FACILITIES SHALL BE CONSTRUCTED AS PART OF THE INITIAL CONSTRUCTION. THE FACILITIES SHALL BE ROUGH GRADED TO THE DESIGN ELEVATIONS. AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED. THE FACILITIES BOTTOM SHALL BE OVER-EXCAVATED BY SIX INCHES, SCARIFIED, BACKFILLED WITH ARCHER FILL (HAVING NO MORE THAN 5% PASSING NO. 200 SIEVE), AND GRADED TO FINAL DESIGN GRADES. EXCESS AND UNSUITABLE SOILS SHALL BE REMOVED FROM THE BASIN (REMOVE ALL ACCUMULATED SILTS, CLAYS, ORGANIC, AND DEBRIS). FINALLY, SCARIFY AND RAKE BOTTOM AND VEGETATE.
   - E. D. PERMANENT VEGETATIVE STABILIZATION SHALL BE APPLIED ON FINE GRADED SITES AS SOON AS PRACTICAL. TEMPORARY SEEDING SHOULD BE EMPLOYED TO PREVENT EXPOSURE OF BARREN SOILS UNTIL PERMANENT VEGETATION CAN BE APPLIED.
   - F. E. ALL SLOPES 1:3 OR STEEPER REQUIRE LAPPED OR PEGGED SOD.
   - G. F. EROSION, SEDIMENT AND TURBIDITY CONTROL ARE THE RESPONSIBILITY OF THE CONTRACTOR. THESE DELINEATED MEASURES ARE THE MINIMUM REQUIRED, WITH ADDITIONAL CONTROLS TO BE UTILIZED AS NEEDED, DEPENDENT UPON ACTUAL SITE CONDITIONS AND CONSTRUCTION OPERATION.
   - H. G. ALL SYNTHETIC BALES, SILT FENCE, AND OTHER EROSION CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
2. THE CONTRACTOR SHALL MAINTAIN IN HIS POSSESSION A COPY OF THE WATER MANAGEMENT DISTRICT CONSTRUCTION PERMIT. HE SHALL BE RESPONSIBLE FOR ADHERENCE TO ALL CONDITIONS CONTAINED IN THE PERMIT.
3. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
4. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER AND OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR THE PERFORMANCE OF THE ITEM.
5. THE COST OF ALL TESTING OF COMPACTION AND OTHER REQUIRED TESTS SHALL BE PAID BY THE CONTRACTOR AND MADE AVAILABLE TO THE ENGINEER OF RECORD DURING SITE INSPECTIONS.
6. GENERAL CONTRACTOR TO CONTACT ENGINEER OF RECORD AND THE OWNER REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO BACKFILLING TRENCHES FOR FIELD INSPECTION AND PRIOR TO LAYING ASPHALT FOR FIELD INSPECTION.
7. CONTRACTOR IS TO SUBMIT FDOT APPROVED ASPHALT DESIGN MIXES TO THE OWNER'S REPRESENTATIVE AND ENGINEER OF RECORD BEFORE ANY WORK IS TO COMMENCE ON PROJECT. THE MIXTURE AT THE PLANT OR ON THE ROAD SHALL NOT EXCEED 335 DEGREES. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND PROVIDE TEMPERATURE READINGS PRIOR TO LAYING ASPHALT.
8. AS DETERMINED NECESSARY AND DIRECTED BY ALACHUA COUNTY PUBLIC WORKS DEPARTMENT OR ENGINEER OF RECORD, THE CONTRACTOR SHALL UNDERCUT ALL UNSUITABLE MATERIAL 24 INCHES BELOW THE BOTTOM OF ANY PROPOSED LIMEROCK BASE, AND SHALL BACKFILL WITH FILL MATERIAL MEETING FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SEE FDOT INDEX 120-001 AND 120-002.
9. PROVIDE LEVEL PLATFORM IN FRONT OF ALL EGRESS DOORS. THE FLOOR SURFACE ON BOTH SIDES OF A DOOR SHALL BE AT THE SAME ELEVATION. THE FLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EXTEND FROM THE DOOR IN THE CLOSED POSITION A DISTANCE EQUAL TO THE DOOR WIDTH AND SHALL COMPLY WITH SECTION 4.13.6 MANEUVERING CLEARANCES AT DOORS OF THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
10. RAMPS SHALL HAVE LEVEL LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP RUN. CURB RAMPS ARE NOT REQUIRED TO HAVE LANDINGS. LANDINGS SHALL HAVE THE FOLLOWING FEATURES:
    - A. THE LANDING SHALL BE AT LEAST AS WIDE AS THE RAMP RUN LEADING TO IT.
    - B. ALL LANDINGS ON RAMPS SHALL BE NOT LESS THAN 60" CLEAR, AND THE BOTTOM OF EACH RAMP SHALL HAVE NOT LESS THAN 72" OF STRAIGHT AND LEVEL CLEARANCE.
    - C. IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60"X60". IF A RAMP RUN HAS A RISE GREATER THAN 6" OR A HORIZONTAL PROJECTION GREATER THAN 72" THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. HANDRAILS SHALL BE SHOWN ON THE SITE PLAN.
11. THE CONTRACTOR SHALL STOCKPILE TOPSOIL AND CONSTRUCTION MATERIALS IN AREAS DESIGNATED BY THE OWNER.
12. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING RECORD DRAWINGS AS NOTED IN NOTE #29 UNDER SITE GENERAL NOTES.
13. ALL CONCRETE USED SHALL BE 2,500 PSI MINIMUM.
14. ALL WELLS, CLEANOUTS, MANHOLE TOPS, PULL BOX COVERS AND OTHER UTILITY APPURTENANCES IN THE AREA OF REDEVELOPMENT SHALL BE PROTECTED AND TOPS ADJUSTED TO MATCH PROPOSED GRADES.
15. CONTRACTOR SHALL SAW CUT, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS ANY EXISTING PAVEMENT.
16. SOD SHALL BE PLACED AROUND ALL STRUCTURES AS DIRECTED BY THE FDOT INDEX 524-001 AND FDOT INDEX 425- AND 430- SERIES AS APPROPRIATE. ALL OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
17. ALL STORM SEWER CURB AND DITCH BOTTOM INLETS SHALL CONFORM TO THE APPLICABLE FDOT INDEX. ALL DRAINAGE STRUCTURES WITH GRATES THAT ARE LOCATED IN GRASSED AREAS SHALL HAVE THE GRATE CHAINED TO THE STRUCTURE USING AN EYE BOLT AND CHAIN.
18. ALL CONCRETE STRUCTURES SHALL HAVE ALL EXPOSED EDGES CHAMFERED 3/4" AND CLASS I SURFACE FINISH.
19. ALL HDPE FITTINGS AND CONNECTORS SHALL BE WATER TIGHT. SEE SPECIFICATIONS FOR MORE INFORMATION.
20. COMPACTION OF ALL MATERIALS SHALL BE LIMITED TO STATIC MODE ONLY, UNLESS DIRECTED OTHERWISE BY THE ENGINEER OF RECORD.
21. ALL RCP PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 430.

CHW Professional Consultants
11801 Research Drive
Alachua, FL 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-9075

SCALE: N/A
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
06/07/2023 - SUBMITTAL TO ALACHUA COUNTY
07/21/2023 - SUBMITTAL TO ALACHUA COUNTY
09/05/2023 - SUBMITTAL TO ALACHUA COUNTY
09/21/2023 - SUBMITTAL TO ALACHUA COUNTY

CLIENT: ORIGIS ENERGY
PROJECT: ORIGIS ENERGY SOLAR FACILITY
SHEET TITLE: GENERAL NOTES

TECHNICIAN: KT MCMAHON
DESIGNER: KEITH JACKSON
PROJECT CONTROL: M MASON
PROJECT NUMBER: 22-0264

MITCHELL G. MASON

Mitchell G. Mason, P.E.
State of Florida, Professional Engineer, License No. 92335
This item has been digitally signed and sealed by Mitchell G. Mason, P.E. on the date indicated here. 09/21/2023
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

FL PE No. 92335

SHEET NO.: C0.10

ABBREVIATIONS

	SYMBOLS
'	*FEET (WHEN USED WITH LENGTHS)*
°	*DEGREES*
'	*MINUTES (WHEN USED WITH ANGLES)*
"	*SECONDS*
%	*PERCENT*
@	*AT*
	A
AASHTO	*ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS*
AC	*ACRES*
ADA	*AMERICAN WITH DISABILITIES ACT*
ANSI	*AMERICAN NATIONAL STANDARDS INSTITUTE*
ARCH	*ARCHITECT*
ARV	*AIR RELEASE VALVE*
ASTM	*AMERICAN SOCIETY FOR TESTING AND MATERIALS*
AWWA	*AMERICAN WATER WORKS ASSOCIATION*
	B
BC	*BACK OF CURB*
BFP	*BACKFLOW PREVENTER*
BLDG	*BUILDING*
BM	*BENCHMARK*
BMP	*BEST MANAGEMENT PRACTICE*
BOC	*BACK OF CURB*
BVCS	*BEGIN VERTICAL CURVE STATION*
BVCE	*BEGIN VERTICAL CURVE ELEVATION*
BW	*BOTTOM OF WALL*
BSL	*BUILDING SETBACK LINE*
	C
CATV	*CABLE TELEVISION*
CI	*CURB INLET*
CIP	*CAST IRON PIPE*
CLDIP	*CEMENT LINE DUCTILE IRON PIPE*
CMP	*CORRUGATED METAL PIPE*
CO	*CLEANOUT*
COA	*CITY OF ALACHUA*
CONC	*CONCRETE*
COORD	*COORDINATE*
CR	*COUNTY ROAD*
C/O	*CLEANOUT*
	D
DBH	*DIAMETER AT BREAST HEIGHT*
DE	*DRAINAGE EASEMENT*
DEG	*DEGREE*
DIA	*DIAMETER*
DIP	*DUCTILE IRON PIPE*
DWG	*DRAWING*
	E
e	*RATE OF ELEVATION*
E	*EAST*
EA	*EACH*
EL	*ELEVATION*
ELEV	*ELEVATION*
EOP	*EDGE OF PAVEMENT*
EOR	*ENGINEER OF RECORD*
ERCP	*ELLIPTICAL REINFORCED CONCRETE PIPE*
ESMT	*EASEMENT*
EVCS	*END VERTICAL CURVE STATION*
EVCE	*END VERTICAL CURVE ELEVATION*
EX	*EXISTING*
	F
FAC	*FLORIDA ADMINISTRATIVE CODE*
FBR	*FLORIDA BEARING RATIO*
FC	*FRICTION COURSE*
FDEP	*FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION*
FDOT	*FLORIDA DEPARTMENT OF TRANSPORTATION*
FFE	*FINISHED FLOOR ELEVATION*
FH	*FIRE HYDRANT*
FHWA	*FLORIDA HIGHWAY ADMINISTRATION*
FIG	*FIGURE*
FM	*FORCE MAIN*
FOC	*FACE OF CURB*
FS	*FLORIDA STATUTES*
FT	*FEET*
	G
GALV	*GALVANIZED*
GM	*GAS MAIN*
GV	*GATE VALVE*
	H
HDPE	*HIGH DENSITY POLYETHYLENE*
HP	*HIGH POINT*
	I
ID	*IDENTIFICATION*
INV	*INVERT*
INV EL	*INVERT ELEVATION*
IP	*IRON PIPE*
	K
K	*VERTICAL CURVE RATE OF CHANGE*
	L
L	*LENGTH*
LA	*LANDSCAPE ARCHITECT*
LBR	*LIMEROCK BEARING RATIO*
LDR	*LAND DEVELOPMENT REGULATION*
LF	*LINEAR FEET*
LP	*LOW POINT*
LT	*LEFT*
	M
MAX	*MAXIMUM*
ME	*MATCH EXISTING*
MH	*MANHOLE*
MIN	*MINIMUM*
MISC	*MISCELLANEOUS*
MJ	*MECHANICAL JOINT*
MUTCD	*MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES*
	N
N	*NORTH*
N-E	*NORTHING - EASTING*
N/A	*NOT APPLICABLE*
NAVD	*NORTH AMERICAN VERTICAL DATUM OF 1988*
NGVD	*NATIONAL GEODETIC VERTICAL DATUM OF 1929*
NO	*NUMBER*
NPDES	*NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM*
NTS	*NOT TO SCALE*
	O
OC	*ON CENTER*
OHW	*OVERHEAD WIRE*
ORB	*OFFICIAL RECORDS BOOK*
OSHA	*OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION*
	P
PAVT	*PAVEMENT*
PC	*POINT OF CURVATURE*
PCC	*POINT OF COMPOUND CURVE*
PE	*POLYETHYLENE*
PERF	*PERFORATED*
PROP	*PROPOSED*
PT	*POINT OF TANGENCY*
PVC	*POLYVINYL CHLORIDE*
PUE	*PUBLIC UTILITY EASEMENT*
PVI	*POINT OF VERTICAL INTERSECTION*
	R
R	*RADIUS*
RCP	*REINFORCED CONCRETE PIPE*
RPM	*RAISED REFLECTIVE PAVEMENT MARKER*
RPZ	*REDUCED PRESSURE ZONE*
RT	*RIGHT*
RWM	*RECLAIMED WATER MAIN*
R/W	*RIGHT-OF-WAY*
	S
S	*SOUTH*
SAN	*SANITARY*
SHWE	*SEASONAL HIGH WATER ELEVATION*
SF	*SILT FENCE*
SL	*SLOPE*
SP	*SUPERPAVE*
SR	*STATE ROAD*
SS	*SANITARY SEWER*
ST	*STORM*
STA	*STATION*
STD	*STANDARD*
	T
TB	*TREE BARRICADE*
TCE	*TEMPORARY CONSTRUCTION EASEMENT*
TEMP	*TEMPORARY*
TOB	*TOP OF BANK*
TV	*TELEVISION*
TW	*TOP OF WALL*
TYP	*TYPICAL*
	U
USF	*UNITED STATES FOUNDRY*
USGS	*UNITED STATES GEOLOGICAL SURVEY*
UTIL	*UTILITY*
	V
V	*VERTICAL*
VC	*VERTICAL CURVE*
VCP	*VITRIFIED CLAY PIPE*
	W
W	*WEST*
W	*WATER*
W/	*WITH*
WM	*WATER MAIN*
WW	*WASTEWATER*
WWF	*WELDED WIRE FABRIC*

SIGNAGE

SIGNS ARE PER FDOT SPECIFICATIONS OR PER MUTCD. SIGN POSTS AND INSTALLATION SHALL BE PER FDOT INDEX NO. 700-010. SIGN PLACEMENT SHALL BE PER FDOT INDEX NO. 700-101.

FTP-20-06 (12" X 18") PER FDOT INDEX NO. 700-102

R1-1 "STOP" - SEE PLANS FOR SIZE

SITE INFORMATION

EX. PROPERTY LINE
LANDSCAPE BUFFER LINE
BUILDING SETBACK LINE
WETLAND LIMITS LINE
WETLAND SETBACK LINE
CENTER LINE
EASEMENT LINE
RIGHT-OF-WAY LINE
SILT FENCE LINE
TREE BARRICADE LINE
EX. STRUCTURE OR BUILDING
PROPOSED BUILDING
PROPOSED ASPHALTIC PAVEMENT
PROPOSED CONCRETE PAVEMENT
PROPOSED DETECTABLE WARNING SURFACE
DIRECTIONAL TRAFFIC ARROW PER FDOT INDEX NO. 17346
WATERSHED DIVIDE
EX. ELEVATION CONTOUR
PROPOSED CONTOUR
EX. SPOT ELEVATION
PROPOSED SPOT ELEVATION
DIRECTION OF SURFACE DRAINAGE FLOW
PROPOSED SWALE LINE
EX. FENCE
PROPOSED FENCE
EX. TREE (SIZE & TYPE)
EX. TREE (TREE ID)
EX. TREE TO BE REMOVED (SIZE & TYPE)
EX. TREE TO BE REMOVED (TREE ID)
PROJECT BENCHMARK

STORMWATER

THE PROPOSED STORMWATER STRUCTURES DEPICTED BELOW ARE DRAWN PER FDOT SPECIFICATIONS AND TO SCALE WHEN SHOWN ON THE PLAN SHEETS.

EX. GRAVITY STORMWATER MAIN
PROPOSED GRAVITY STORMWATER MAIN (PIPE LENGTHS ARE FROM N-E LOCATION OF A STRUCTURE TO N-E LOCATION OF A STRUCTURE)
EX. STORMWATER MANHOLE
PROPOSED 48" DIA. STORMWATER MANHOLE PER FDOT INDEX. NO. 425-001 AND 425-010
PROPOSED CIRCULAR AREA DRAIN
PROPOSED SQUARE AREA DRAIN
PROPOSED TYPE 1 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 2 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 3 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 4 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 5 CURB INLET TOP PER FDOT INDEX NO. 425-021 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 6 CURB INLET TOP PER FDOT INDEX NO. 425-021 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 9 CURB INLET TOP PER FDOT INDEX NO. 425-024 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 'C' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)
PROPOSED TYPE 'D' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)
PROPOSED TYPE 'E' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)
PROPOSED TYPE 'F' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 425-053 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 'G' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 425-053 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 'H' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)
PROPOSED TYPE 'J' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 425-054 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED U-TYPE CONCRETE ENDWALLS WITH GRATES PER FDOT INDEX NO. 430-010 (SEE PLANS FOR SIZE)
PROPOSED U-TYPE CONCRETE ENDWALLS WITH GRATES PER FDOT INDEX NO. 430-010 (SEE PLANS FOR SIZE)
PROPOSED FLARED END SECTION PER FDOT INDEX NO. 430-020 (SEE PLANS FOR SIZE)
PROPOSED CROSS DRAIN MITERED END SECTION PER FDOT INDEX NO. 430-021 (SEE PLANS FOR SIZE)
PROPOSED SIDE DRAIN MITERED END SECTION PER FDOT INDEX NO. 430-022 (SEE PLANS FOR SIZE)
PROPOSED STORMWATER STRUCTURE ID TAG

POTABLE AND RECLAIMED WATER

EX. POTABLE WATER MAIN
PROPOSED POTABLE WATER MAIN
EX. RECLAIMED WATER MAIN
PROPOSED RECLAIMED WATER MAIN
11.25° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)
22.5° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)
45° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)
90° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)
TEE (POTABLE AND RCW)
CROSS (POTABLE AND RCW)
BLOWOFF ASSEMBLY (POTABLE AND RCW)
REDUCER (POTABLE AND RCW)
EX. GATE VALVE AND BOX (POTABLE AND RCW)
PROPOSED GATE VALVE AND BOX (POTABLE AND RCW)
EX. AIR RELEASE VALVE (POTABLE AND RCW)
PROPOSED AIR RELEASE VALVE (POTABLE AND RCW)
EX. FIRE HYDRANT ASSEMBLY
PROPOSED FIRE HYDRANT ASSEMBLY
PROPOSED SAMPLE POINT
EX. WATER METER (POTABLE AND RCW)
PROPOSED POTABLE WATER METER
PROPOSED POTABLE WATER BACK FLOW PREVENTER
PROPOSED RECLAIMED WATER METER
EX. WATER WELL
EX. HOSE BIB (POTABLE AND RECLAIMED)
PROPOSED HOSE BIB (POTABLE AND RECLAIMED)
PROPOSED FITTING ID TAG (POTABLE AND RECLAIMED)

WASTEWATER

EX. GRAVITY WASTEWATER MAIN
PROPOSED GRAVITY WASTEWATER MAIN (PIPE LENGTHS ARE FROM N-E LOCATION OF A STRUCTURE TO N-E LOCATION OF A STRUCTURE)
EX. WASTEWATER FORCE MAIN
PROPOSED WASTEWATER FORCE MAIN
EX. WASTEWATER MANHOLE
PROPOSED WASTEWATER MANHOLE
EX. WASTEWATER CLEANOUT
PROPOSED WASTEWATER CLEANOUT
PROPOSED WASTEWATER GREASE TRAP
PROPOSED WASTEWATER MANHOLE ID
11.25° BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)
22.5° BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)
45° BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)
90° BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)
WYE W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)
EX. PLUG VALVE AND BOX (WW FORCE MAIN)
PROPOSED PLUG VALVE AND BOX (WW FORCE MAIN)
EX. AIR RELEASE VALVE (WW FORCE MAIN)
PROPOSED AIR RELEASE VALVE (WW FORCE MAIN)

MISCELLANEOUS UTILITIES

THE PROPOSED UTILITIES BELOW ARE DESIGN BY OTHERS AND ARE DEPICTED FOR COORDINATION PURPOSES ONLY. REFER TO PLANS BY OTHERS FOR EXACT LOCATIONS, DIMENSION, AND DETAILS.

PROPOSED AT&T LINE
EX. BURIED CABLE LINE
PROPOSED BURIED CABLE LINE
EX. BURIED TELEPHONE LINE
PROPOSED TELEPHONE LINE
EX. CABLE TELEVISION LINE
PROPOSED CABLE/TELEVISION LINE
EX. FIBER OPTIC LINE
EX. UNDERGROUND TELEPHONE LINE
EX. TELEPHONE PEDESTAL
EX. TELEVISION/CABLE PEDESTAL
EX. CHILLED WATER MAIN
PROPOSED CHILLED WATER MAIN
EX. FIRE MAIN
PROPOSED FIRE MAIN
EX. IRRIGATION LINE
PROPOSED IRRIGATION LINE
EX. STEAM LINE
PROPOSED STEAM LINE
PROPOSED CLAY ELECTRIC LINE
EX. ELECTRIC LINE
PROPOSED ELECTRIC LINE
EX. ENERGY LINE
PROPOSED PRIVATE LIGHTING LINE
EX. OVERHEAD WIRE LINE
EX. UNDERGROUND ELECTRIC LINE
EX. LIGHT
EX. UTILITY POLE
EX. UTILITY POLE
EX. WOOD POWER POLE
EX. GUY ANCHOR
PROPOSED TRANSFORMER
EX. GAS LINE
PROPOSED GAS LINE
EX. GAS MARKER
EX. GAS MARKER

NOTES:
1. THIS LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT A PART OF THIS PLAN SET.

2. SYMBOLS SHOWN ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. UNLESS NOTED OTHERWISE, SYMBOLS IN THESE PLANS MAY NOT BE REPRESENTATIVE OF SIZE.

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Alachua, FL 32615
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est. 1988 FLORIDA CA-5075
CHW Professional Consultants

SCALE: N/A
VERIFY SCALE
BAR IS 1 INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

CONSTRUCTION/BID REVISIONS

SUBMITTALS:
06/05/2023 - SUBMITTAL TO ALACHUA COUNTY
07/21/2023 - SUBMITTAL TO ALACHUA COUNTY
09/05/2023 - SUBMITTAL TO ALACHUA COUNTY
09/21/2023 - SUBMITTAL TO ALACHUA COUNTY

CLIENT: ORIGIS ENERGY
PROJECT: ORIGIS ENERGY SOLAR FACILITY
SHEET TITLE: LEGEND

TECHNICIAN: KT MCMAHON
DESIGNER: KRISTEN JACKSON
QUALITY CONTROL: M. MASON
PROJECT NUMBER: 22-0264

MITCHELL G. MASON

Mitchell G. Mason, P.E. State of Florida, Professional Engineer, License No. 92335

This item has been digitally signed and sealed by Mitchell G. Mason, P.E. on the date indicated here. 09/21/2023

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

FL PE No. 92335

SHEET NO.: C0.11

I. INTRODUCTION

THIS DOCUMENT WAS PREPARED IN ORDER TO ILLUSTRATE COMPLIANCE WITH CHAPTER 62-621.300 (4) OF THE FLORIDA ADMINISTRATIVE CODE, WHICH PERTAINS TO THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE ADMINISTRATIVE CODE GRANTS THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) THE AUTHORITY TO REGULATE POINT SOURCE DISCHARGE OF STORMWATER FROM CONSTRUCTION SITES. THIS DOCUMENT ESTABLISHES A STORMWATER POLLUTION PREVENTION PLAN FOR THE SITE USING STANDARD PRACTICE AND BEST MANAGEMENT PRACTICES (BMPs) AND IS ORGANIZED TO CORRESPOND TO 62-621.300(4)(a) GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES FDEP FORM 62-621.300(4)(b) IS TO BE SUBMITTED IN CONJUNCTION WITH THIS DOCUMENT. CONTRACTOR(S) MUST FILL IN THE ACTIVITIES SEQUENCE (SECTION II. B. BELOW) AND SIGN THIS SHEET (REFER TO SIGNATURE TABLE THIS SHEET) AND RETAIN THIS SHEET AND ALL FOLLOWING SWPPP SHEETS ON SITE. ALTERNATIVELY, CONTRACTOR(S) MAY PREPARE AND SIGN THEIR OWN SWPP PLAN MEETING THE REQUIREMENTS. IF THE SITE OR CONTRACTOR ACTIVITIES REQUIRE ANY BMPs THAT ARE NOT DESCRIBED ON THIS SHEET, THE CONTRACTOR MUST PREPARE AN ALTERNATIVE OR ADDITIONAL SWPPP DOCUMENT CONTAINING THE NECESSARY BMPs.

II. SITE DESCRIPTION

COUNTY:	*ALACHUA COUNTY, FLORIDA*
SECTION, TOWNSHIP, RANGE:	*SECTION 25,26,36 TOWNSHIP 11 SOUTH, RANGE 18 EAST*
COUNTY PARCEL NO.:	*05291-0000-000,5198-000-000, 05224-000-000*
STREET ADDRESS:	*TBD, ARCHER, FLORIDA*
PROJECT AREA:	*599 ACRES*
SITE LOCATION MAP:	*SEE COVER SHEET OF CONSTRUCTION DRAWINGS*

A. NATURE OF CONSTRUCTION ACTIVITY

THE PROPOSED DEVELOPMENT IS THE CONSTRUCTION OF ±558 AC SOLAR ENERGY FACILITY AND PAVEMENT FOR ACCESS ND STORMWATER MANAGEMENT FACILITY(S). THE PROJECT SITE IS LOCATED SOUTH OFF THE COUNTY ROAD 346 AND SW 107TH STREET INTERSECTION IN ARCHER, FLORIDA

B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES - CONTRACTOR MUST FILL IN DAYS

DAYS

FROM_____TO_____ PRIOR TO CONSTRUCTION, SILT FENCING AND TREE PROTECTION FENCING SHALL BE INSTALLED AND ALL EXISTING STORM DRAINAGE SWALE AND INLETS SHALL BE PROTECTED IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, DATED JULY 2013, AND THESE PLANS.

FROM_____TO_____ THE CONSTRUCTION SERVICE ENTRANCE SHALL BE STABILIZED TO MINIMIZE THE CREATION OF DUST AND OFF-SITE TRACKING OF SEDIMENTS.

FROM_____TO_____ ONLY THE AREA COMPRISING THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED OF UNWANTED VEGETATION.

FROM_____TO_____ THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CONSTRUCTED.

FROM_____TO_____ IF SUITABLE, THE EXCAVATED SOIL FROM THE FACILITY(S) MAY BE USED AS FILL FOR ON-SITE GRADING THAT IS DEPICTED IN THESE CONSTRUCTION PLANS. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL ON-SITE OR OFF-SITE TO A PERMITTED LOCATION.

FROM_____TO_____ THE REMAINING PORTION OF THE SITE THAT IS TREATED BY THE CONSTRUCTED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED.

FROM_____TO_____ THE PERMANENT ROADWAYS/DRIVEWAYS SHALL BE ROUGHLY GRADED.

FROM_____TO_____ THE UNDERGROUND UTILITIES INFRASTRUCTURE AND STORMWATER PIPING SYSTEM SHALL BE INSTALLED. ANY DE-WATERING (PUMPED) SHALL BE DIVERTED TO THE ASSOCIATED STORMWATER MANAGEMENT FACILITY(S).

FROM_____TO_____ THE PERMANENT ROADWAY/DRIVEWAY SUBGRADE SHALL BE COMPACTED, A LIMEROCK BASE SHALL BE ESTABLISHED, AND THEN FOLLOWED BY AN OVERLAY OF ASPHALT.

FROM_____TO_____ UPON SIGNIFICANT COMPLETION OF CONSTRUCTION, THE STORMWATER PIPING SYSTEM SHALL BE FLUSHED OUT TO REMOVE ACCUMULATED DEBRIS AND SEDIMENT.

FROM_____TO_____ UPON COMPLETION OF THE DEBRIS AND SEDIMENT REMOVAL FROM THE STORMWATER PIPING SYSTEM, THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE FINE GRADED AND SHALL BE EXCAVATED A MINIMUM OF SIX INCHES BELOW THE DESIGN BOTTOM ELEVATION AND REPLACED WITH FILL HAVING A MINIMUM PERMEABILITY RATE OF 20 FEET/DAY WITH A MAXIMUM OF 5% SOIL FINES PASSING THE NO. 200 SIEVE. THE BOTTOM SHALL BE SCARIFIED AND STABILIZED ACCORDING TO THESE PLANS. ONCE COMPLETED, NO HEAVY MACHINERY SHALL BE ALLOWED WITHIN THE STORMWATER MANAGEMENT FACILITY(S).

FROM_____TO_____ ALL REMAINING DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSED AND/OR LANDSCAPED ACCORDING TO THESE PLANS. TURF ESTABLISHMENT SHALL BE PER FDOT STANDARD SPECIFICATIONS SECTION 570. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO REMOVAL OF SILT FENCING AND OTHER EROSION CONTROL APPLICATIONS.

C. SITE DEVELOPMENT DATA:

TOTAL PROJECT SITE AREA:	*599 ACRES*
TOTAL SITE AREA TO BE DISTURBED:	*599 ACRES*
TOTAL IMPERVIOUS AREA (AS SHOWN IN CONSTRUCTION DRAWINGS):	*11.36 ACRES*
TOTAL DETENTION VOLUME:	*73.63 ACRE-FEET*
TOTAL OPEN AREA:	*587.64 ACRES*

D. SOIL CONDITIONS AND STORMWATER QUALITY

THE NRCS DATA FOR THE SITE REVEALS THAT THE SITE SOILS ARE COMPRISED OF ARREDONDO FINE SAND, MILLHOPPER SAND, PONOMA SAND, KENDRICK SAND, BONNEAU FINE SAND, JONESVILLE-CADILLAC-BONNEAU COMPLEX, WAUBERG SAND, LAKE FINE SAND, BLITCHON SAND, SHADEVILLE-OTELA COMPLEX AND OTELA-TAVARES COMPLEX . ARDAMAN AND ASSOCIATES , INC. CONDUCTED A GEOTECHNICAL EXPLORATION OF THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) LOCATION IN MAY OF 2023. pLEASE REFER TO THE GEOTECHINCAL REPORT FOR DESIGN PARAMATERS.

DESIGN PERCOLATION RATES FOR THE STORMWATER MANAGEMENT FACILITY(S) WERE DETERMINED BASED ON LABORATORY PERMEABILITY TEST RESULTS FROM BORING SAMPLES TAKEN WITHIN THE LIMITS OF THE STORMWATER MANAGEMENT FACILITY(S).

THE STORMWATER MANAGEMENT FACILITY(S) WAS DESIGNED TO PROVIDE RATE AND VOLUME CONTROL AND WATER QUALITY TREATMENT OF THE STORMWATER RUNOFF RESULTING FROM THE POST-DEVELOPMENT SITE UNDER 100-YEAR CRITICAL STORM EVENT RAINFALL CONDITIONS. THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) DEPICTS THE POST-DEVELOPMENT WATERSHED(S) LIMITS AND THE TABLE BELOW SUMMARIZES EACH WATERSHED.

WATERSHED ID	*POST DEVELOPMENT AREA (ACRES)*	*POST DEVELOPMENT IMPERVIOUS AREA (ACRES)*	*STORMWATER MANAGEMENT FACILITY TYPE*	*FACILITY DETENTION CAPACITY (ACRE-FEET)*	*100-YEAR 240-HOUR FLOOD ELEVATION (FT)*
3	*64.40*	*0.01*	*DRY RETENTION*	*39.27*	*61.82*
5	*232.25*	*4.75*	*DRY RETENTION*	*46.06*	*64.06*

E. SITE MAP

PLEASE SEE THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) FOR DETAILS.

F. STORMWATER OUTFALL LOCATION AND RECEIVING WATER BODY

THE STORMWATER MANAGEMENT FACILITY IS DESIGNED TO BE FULL RETENTION. SHOULD THE FACILITIES FAIL, THE WATER WOULD FLOW TO THE EAST INTO UNNAMED BODIES OF WATER.

III. CONTROLS TO REDUCE POLLUTION

AS OUTLINED IN THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) PERMIT, ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER AS TO NOT VIOLATE STATE WATER QUALITY STANDARDS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE. IF SITE CONDITIONS ARE SUCH THAT ADDITIONAL CONTROL MEASURES ARE REQUIRED OTHER THAN WHAT IS SPECIFIED IN THE EROSION AND SEDIMENTATION CONTROL PLAN, THEN THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES. THESE MEASURES MUST BE INSPECTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE AND UNTIL AS DIRECTED BY THESE PLANS. THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) AND SECTION IV BELOW PROVIDE DETAILS ON THE SPECIFIC CONTROL MEASURES TO REDUCE STORMWATER POLLUTION.

IV. EROSION AND SEDIMENT CONTROLS

A. STABILIZATION PRACTICES

EXISTING TREES AND NATURAL VEGETATION TO REMAIN ON-SITE SHALL BE PROTECTED BY TREE BARRICADE FENCING AS DEPICTED ON THE STORMWATER POLLUTION PREVENTION PLAN (C0.21). TYPE III SILT FENCING SHALL PROTECT ALL DRAINAGE STRUCTURES AND SHALL BUFFER AREAS WITH POTENTIAL TO CONTRIBUTE OFF-SITE RUNOFF AND AS SPECIFICALLY DEPICTED ON THE STORMWATER POLLUTION PREVENTION PLAN (C0.21). STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED. AS SPECIFIED IN SECTION II.B. ABOVE, UPON COMPLETION OF CONSTRUCTION, ALL STORMWATER MANAGEMENT FACILITIES SHALL BE SCRAPED CLEAN OF ACCUMULATED SEDIMENT AFTER THE COMPLETION OF CONSTRUCTION. ALL TURF ESTABLISHMENT SHALL BE PERFORMED MEETING THE REQUIREMENTS OF SECTION 570 OF THE STANDARD SPECIFICATIONS. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.

B. STRUCTURE PRACTICES

AS DEPICTED IN THE STORMWATER POLLUTION PREVENTION PLAN (C0.21), A STORMWATER MANAGEMENT SYSTEM WILL BE CONSTRUCTED AND WILL BE COMPRISED OF A DRY RETENTION FACILITY. TO PREVENT EROSION DURING CONSTRUCTION, TYPE III SILT FENCING WILL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS. ALL EXISTING AND PROPOSED STORM DRAINS AND DRAINAGE SWALES SHALL BE PROTECTED ACCORDING TO THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, DATED JULY 2013 OR PER DETAILS PROVIDED ON SHEET C0.21 UNTIL CONSTRUCTION IS COMPLETE.

C. DRAINAGE LOCATIONS THAT SERVE AREAS WITH LESS THAN 10 DISTURBED ACRES

AS SPECIFIED IN THE "SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES," THE SMF(S) WILL BE CONSTRUCTED PRIOR TO CLEARING AND GRUBBING OUTSIDE OF THE SMF(S) AREAS AND CONSTRUCTION OF THE PERMANENT PAVED AREAS. THE TOTAL CONTRIBUTING DRAINAGE AREA TO THE STORMWATER MANAGEMENT SYSTEM IS APPROXIMATELY 900 ACRES AND WILL CONSIST OF APPROXIMATELY 600 ACRES OF DISTURBED CONSTRUCTION AREA. THEREFORE, NO ADDITIONAL SEDIMENT TRAP BASINS ARE NECESSARY TO PROVIDE SEDIMENT STORAGE ON-SITE DURING CONSTRUCTION. AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN (C0.21), THE PROPOSED STORMWATER MANAGEMENT SYSTEM WILL PREVENT OFF-SITE EROSION DURING CONSTRUCTION. SILT FENCES OR EQUIVALENT SEDIMENT CONTROLS SHALL BE INSTALLED AT SIDE SLOPE AND DOWN SLOPE BOUNDARIES, INLET LOCATION, OUTLET LOCATIONS, AND OTHER LOCATIONS AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN, AS REQUIRED. BY COMPLETION OF CONSTRUCTION, THE SIDE SLOPES, SWALES, AND ALL DISTURBED AREAS SHALL BE STABILIZED WITH GRASS AND LANDSCAPING AS SPECIFIED ON THE CONSTRUCTION DRAWINGS.

D. DRAINAGE LOCATIONS THAT SERVE AREAS WITH MORE THAN 10 DISTURBED ACRES

NOT APPLICABLE, SEE SECTION C, ABOVE.

V. STORMWATER MANAGEMENT

A. BEST MANAGEMENT PRACTICES

AFTER CONSTRUCTION, THE STORMWATER MANAGEMENT SYSTEM SHALL BE MAINTAINED IN ACCORDANCE WITH THE SPECIFIED STORMWATER MAINTENANCE NOTES IN THE INCLUDED CONSTRUCTION DRAWINGS AND/OR RESPECTIVE MAINTENANCE REPORTS. SPECIFICALLY, THE PROPOSED SMF(S) SHALL BE MOWED REGULARLY IN THE SPECIFIED AREAS, STORM PIPES AND STRUCTURES WILL BE INSPECTED SEMI-ANNUALLY AND CLEANED ANNUALLY, SMF(S) SIDE SLOPES SHALL BE MAINTAINED TO PREVENT EROSION, AND LANDSCAPING AND GRASS THAT PREVENTS EROSION SHALL BE MAINTAINED. ADDITIONALLY, REMEDIAL ACTIONS SHALL BE TAKEN SHOULD THE SMF(S) NOT PERFORM AS DESIGNED.

B. VEGETATED SWALES

WHEN VEGETATED SWALES ARE UTILIZED, SILT FENCING OR EQUIVALENT SEDIMENT CONTROLS SHALL BE INSTALLED AT ADEQUATE INTERVALS TO COLLECT SEDIMENT ALONG THE SWALE. THE SEDIMENT SHALL BE REMOVED WHEN SEDIMENT REACHES ONE-THIRD OF THE HEIGHT OF THE SILT FENCING. SEE THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) FOR DETAILS AND LOCATIONS, AS REQUIRED.

C. VELOCITY DISSIPATION DEVICES AT DISCHARGE POINTS

WHEN DISCHARGE POINTS ARE NOT LOCATED UNDER WATER, RIP RAP PADS HAVE BEEN PROVIDED AT LOCATIONS WHERE NECESSARY DUE TO ANTICIPATED DISCHARGE VELOCITIES. PLEASE SEE THE CONSTRUCTION PLANS FOR DETAILS AND LOCATIONS, AS NEEDED.

VI. CONTROLS FOR OTHER POTENTIAL POLLUTANTS

A. WASTE DISPOSAL

THE CONTRACTOR SHALL PROVIDE LITTER COLLECTION CONTAINERS WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION. CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIALS AND CONSTRUCTION DEBRIS IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.

B. DUST CONTROL

TO PREVENT OFF-SITE VEHICULAR TRACKING OF SEDIMENTS AND DUST GENERATION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE ESTABLISHED BY THE SITE CONTRACTOR. PLEASE SEE THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) FOR DETAILS AND LOCATION(S).

C. EXISTING VERSUS PROPOSED POTABLE AND SANITARY SEWER SYSTEMS

THERE ARE NOT EXISTING SANITARY SEWER AND POTABLE WATER SYSTEMS LOCATED ON THE PROJECT SITE. IF TEMPORARY SANITARY SYSTEMS ARE UTILIZED DURING CONSTRUCTION, THE CONTRACTOR SHALL PROPERLY CONTROL AND DISCHARGE ANY SANITARY WASTE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

D. FERTILIZER & PESTICIDES

THE USE OF FERTILIZERS, HERBICIDES, AND PESTICIDES ON THE PROJECT SITE, WILL BE DIRECTED BY THE LANDSCAPE PLAN AND THE FDOT STANDARD SPECIFICATIONS SECTION 570, TO SUPPORT THE GROWTH OF THE PROPOSED VEGETATION. ESTABLISHING THIS VEGETATION WILL AID IN THE STABILIZATION OF THE PROJECT SITE AND REDUCE EROSION. APPLICATION RATES FOR THE FERTILIZERS, HERBICIDES, AND PESTICIDES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO GUARD AGAINST OVER-USE, WHICH CAN LEAD TO VIOLATIONS OF STATE WATER QUALITY STANDARDS.

E. TOXIC MATERIAL

THE CONSTRUCTION SITE WILL BE IN FULL COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS. A PLASTIC MAT, TAR PAPER, OR OTHER IMPERVIOUS MATERIAL SHALL BE PLACED UNDER AREAS WHERE TOXIC LIQUIDS ARE TO BE OPENED AND STORED.

F. HAZARDOUS MATERIALS

ALL HAZARDOUS MATERIALS SHALL BE STORED IN A SECURE LOCATION, UNDER COVER, AND IN APPROPRIATE TIGHTLY, SEALED CONTAINERS WHEN NOT IN USE. ALL PRODUCTS SHALL BE STORED IN AND USED FROM THE ORIGINAL CONTAINER WITH THE ORIGINAL PRODUCT LABEL. CONTAINERS MUST BE STORED IN A MANNER TO PROTECT THEM FROM THE ELEMENTS AND INCIDENTAL DAMAGE. THE MINIMUM PRACTICAL QUANTITY OF ALL SUCH MATERIALS SHALL BE KEPT ON THE JOB SITE AND SCHEDULED FOR DELIVERY AS CLOSE TO TIME OF USE AS PRACTICAL.

ALL PRODUCTS SHALL BE USED IN STRICT COMPLIANCE WITH THE INSTRUCTIONS ON THE PRODUCT LABEL.

SUFFICIENT EQUIPMENT AND/OR MATERIALS SHALL BE KEPT ONSITE TO CONTAIN AND CLEAN UP SPILLS OF HAZARDOUS MATERIALS IN THE AREAS WHERE THESE MATERIALS ARE STORED OR USED. SPILL CONTROL AND CONTAINMENT KIT SUPPLIES SHALL BE OF SUFFICIENT QUANTITIES AND APPROPRIATE CONTENT TO CONTAIN A SPILL FROM THE LARGEST ANTICIPATED PIECE OF EQUIPMENT AND FROM THE LARGEST ANTICIPATED QUANTITIES OF PRODUCTS STORED ON THE SITE AT ANY GIVEN TIME.

CONTRACTOR TO CONTAIN AND CLEAN UP ANY SPILLS IMMEDIATELY AFTER THEY OCCUR. ANY SPILLS OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF REPORTABLE QUANTITIES AS DEFINED BY EPA, STATE, OR LOCAL AGENCY REGULATIONS SHALL BE REPORTED TO THE APPROPRIATE AGENCIES IN THE REQUIRED TIME FRAMES. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE OWNER IMMEDIATELY UPON IDENTIFICATION OF ANY SPILL.

ALL EXCESS, USED, OR SPILLED PRODUCTS, INCLUDING CONTAMINATED SOIL, SHALL BE DISPOSED OF BY THE CONTRACTOR IN STRICT COMPLIANCE WITH INSTRUCTIONS ON THE PRODUCT LABEL AND ALL APPLICABLE REGULATIONS.

VII. APPROVED STATE AND LOCAL PLANS

THE CONSTRUCTION DRAWINGS FOR THE PROJECT WERE APPROVED AND PERMITTED BY THE FOLLOWING AGENCIES:

** ALACHUA COUNTY*
** FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION*

VIII. CONSTRUCTION ACTIVITY DISCHARGES

IN ACCORDANCE WITH THIS PLAN, THERE ARE NO ANTICIPATED DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

IX. CHANGES TO THE POLLUTION PREVENTION PLAN

THIS STORMWATER POLLUTION PREVENTION PLAN SHALL BE AMENDED TO REFLECT ANY APPLICABLE CHANGE IN A STATE, REGIONAL, OR LOCAL PERMIT FOR WHICH THE PERMITTEE RECEIVES WRITTEN NOTICE. WHEN WRITTEN NOTICE IS RECEIVED, THE PERMITTEE SHALL PROVIDE A RE-CERTIFICATION OF THIS POLLUTION PREVENTION PLAN, WHICH HAS BEEN REVISED TO ADDRESS SUCH CHANGES. AMENDMENTS TO THE PLAN SHALL BE PREPARED, SIGNED, DATE, AND KEPT AS ATTACHMENTS TO THE ORIGINAL PLAN.

X. ALTERNATIVE PERMIT REQUIREMENTS

NO ALTERNATIVE PERMIT REQUIREMENTS ARE REQUESTED.

XI. MAINTENANCE

THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE, INSPECTION SCHEDULE, AND REPAIRS OUTLINED IN THIS PLAN. MAINTENANCE SHALL CONTINUE THROUGHOUT THE PROJECT UNTIL WORK IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER CONSTRUCTION IS COMPLETE. IN ADDITION TO THE TIMES MENTIONED IN THE PREVIOUS SECTIONS, THE CONTRACTOR SHALL INITIATE ANY REPAIRS WITHIN 24 HOURS OF BEING REPORTED. IN THE EVENT THAT THE SMF(S) DO NOT PERFORM PROPERLY OR IF A SINKHOLE DEVELOPS, THE PROJECT ENGINEER SHALL BE NOTIFIED TO ASSIST IN COORDINATING REMEDIAL ACTION. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM SILT FENCING WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE SILT FENCE. UPON FINAL COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY BOTH THE CITY AND OWNER, THE OPERATION AND MAINTENANCE ENTITY WILL BE FL SOLAR 7, LLC.

XII. INSPECTIONS

THE CONTRACTOR SHALL INSPECT ALL POINTS OF POTENTIAL DISCHARGE FROM THE PROJECT SITE FOR ALL DISTURBED AREAS ON THE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. FOR POINTS OF DISCHARGE INTO SURFACE WATERS OF THE STATE OR AN MS4, A QUALIFIED INSPECTOR (PROVIDED BY THE OPERATOR) SHALL PERFORM THE REQUIRED INSPECTIONS. THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE TO MONITOR AND DOCUMENT RAINFALL EVENTS 0.50 INCHES OR GREATER. LOCATIONS WHERE THE SITE IS COMPLETELY CONSTRUCTED AND STABILIZED, SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE A MONTH. ALL INSPECTIONS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION FORM. THE CONTRACTOR MAY USE THEIR OWN FORM (MEETING FDEP SWPPP REQUIREMENTS) OR A SAMPLE FORM FROM FDEP. A SAMPLE CONSTRUCTION FORM IS AVAILABLE AT: "HTTPS://FLORIDADEP.GOV/WATER/STORMWATER/DOCUMENTS/CONSTRUCTION-SWPPP". MORE SPECIFICALLY, THE INSPECTION SHALL ENSURE THE FOLLOWING CATEGORIES.

A. DISTURBED AREAS

ALL DISTURBED AREAS AND AREAS USED FOR MATERIAL STORAGE SHALL BE INSPECTED FOR POLLUTANTS ENTERING THE STORMWATER SYSTEM. THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE INSPECTED TO ENSURE THEY ARE OPERATING CORRECTLY. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

B. MAINTENANCE PERFORMANCE

BASED ON THE RESULTS OF THE INSPECTION, ALL MAINTENANCE OPERATIONS NEEDED TO ASSURE PROPER COMPLIANCE WITH THIS PLAN SHALL BE DONE IN A TIMELY MANNER, BUT IN NO CASE LATER THAN 7 DAYS FOLLOWING THE INSPECTION.

C. REPORTING REQUIREMENTS

ALL INSPECTIONS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION FORM. THIS FORM IS CREATED TO SUMMARIZE THE SCOPE OF THE INSPECTION, THE NAME(S) AND QUALIFICATION OF THE INSPECTOR(S), THE DATE OF INSPECTION, RAINFALL DATA, OBSERVATIONS, THE ACTIONS TAKEN TO CORRECT INCIDENTS OF NON-COMPLIANCE WITH THE PROVISIONS OF THIS PLAN. IF NO INCIDENTS OF NON-COMPLIANTS ARE OBSERVED, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE ASSOCIATED PERMIT.

XIII. NON-STORMWATER DISCHARGES

IN ADDITION TO STORMWATER RUNOFF, THIS PLAN APPLIES TO RUNOFF FROM IRRIGATION OPERATIONS AND CONSTRUCTION PRACTICES. THIS PLAN DOES NOT PERTAIN TO DISCHARGES FROM FIRE FIGHTING ACTIVITIES.

XIV. CONTRACTORS CERTIFICATION

THE CONTRACTORS OR SUB-CONTRACTORS SHALL PHOTOCOPY AND COMPLETE THE FORM ON THIS PAGE. IT SHALL BE PROVIDED TO THE OWNER AND KEPT ON FILE PURSUANT TO SECTION XV REGARDING PROJECT RECORDS.

XV. RETENTION OF RECORDS

THE PERMITTEE SHALL RETAIN COPIES OF STORMWATER POLLUTION PREVENTION PLANS AND ALL REPORTS REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED.

THE PERMITTEE SHALL RETAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN AND ALL REPORTS, RECORDS, AND DOCUMENTATION REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE, OR AN APPROPRIATE ALTERNATIVE LOCATION AS SPECIFIED IN THE NOTICE OF INTENT, FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

XVI. NOTICE OF TERMINATION

NOTICE OF TERMINATION:

1. *WHERE A SITE HAS BEEN FINALLY STABILIZED AND ALL STORMWATER DISCHARGES AUTHORIZED BY THIS PERMIT ARE ELIMINATED, THE PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION (DEP FORM 62-621.300(6)), SIGNED IN ACCORDANCE WITH PART VII.C OF DEP DOCUMENT NO. 62-621.300(4)(a), WITHIN 14 DAYS OF FINAL STABILIZATION OF THE SITE TO TERMINATE COVERAGE UNDER THIS PERMIT.*
2. *ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MEANS THAT ALL DISTURBED SOILS AT THE SITE HAVE BEEN FINALLY STABILIZED AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR WILL BE REMOVED AT AN APPROPRIATE TIME, OR THAT ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE THAT ARE AUTHORIZED BY THIS GENERIC PERMIT HAVE OTHERWISE BEEN ELIMINATED.*
3. *FOR CONSTRUCTION ACTIVITIES WHERE THE OPERATOR CHANGES, THE EXISTING OPERATOR SHALL FILE AN N.O.T. IN ACCORDANCE WITH THIS PART WITHIN 14 DAYS OF RELINQUISHING CONTROL OF THE PROJECT TO A NEW OPERATOR.*

THE PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE FOLLOWING ADDRESS:

NPDES STORMWATER NOTICES CENTER, MS# 2510
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

PROJECTS THAT DISCHARGED STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) SHALL SUBMIT A COPY OF THE N.O.T. TO THE OPERATOR OF THE MS4.

Contractor/Subcontractor Certification Statement
Stormwater Pollution Prevention Plan

Site Name: ORIGIS ENERGY SOLAR FACILITY
Site Location: TBD
Alachua County, Florida

THE CONTRACTOR(S) OR SUB-CONTRACTOR(S) RESPONSIBLE FOR COMPLYING WITH THIS STORMWATER POLLUTION PREVENTION PLAN SHALL SIGN THE CERTIFICATION STATEMENT BELOW. MULTIPLE COPIES OF THIS CERTIFICATION STATEMENT MAY BE NECESSARY DEPENDING ON THE NUMBER OF SUB-CONTRACTORS ASSOCIATED WITH THE PROJECT

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

DATE	RESPONSIBLE INDIVIDUAL'S NAME	RESPONSIBLE INDIVIDUAL'S SIGNATURE	TITLE	COMPANY NAME, ADDRESS, AND PHONE NUMBER

CHW Professional Consultants
11801 Research Drive
Alachua, FL 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075

SCALE: N/A

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY.
0 1"

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
06/05/2023 - SUBMITTAL TO ALACHUA COUNTY
07/21/2023 - SUBMITTAL TO ALACHUA COUNTY
09/05/2023 - SUBMITTAL TO ALACHUA COUNTY
09/21/2023 - SUBMITTAL TO ALACHUA COUNTY

CLIENT: ORIGIS ENERGY

PROJECT: ORIGIS ENERGY SOLAR FACILITY

SHEET TITLE: STORMWATER POLLUTION PREVENTION NOTES

TECHNICIAN: KT MCMAHON
DESIGNER: JORDAN JACKSON
QUALITY CONTROL: M MASON
PROJECT NUMBER: 22-0264

MITCHELL G. MASON

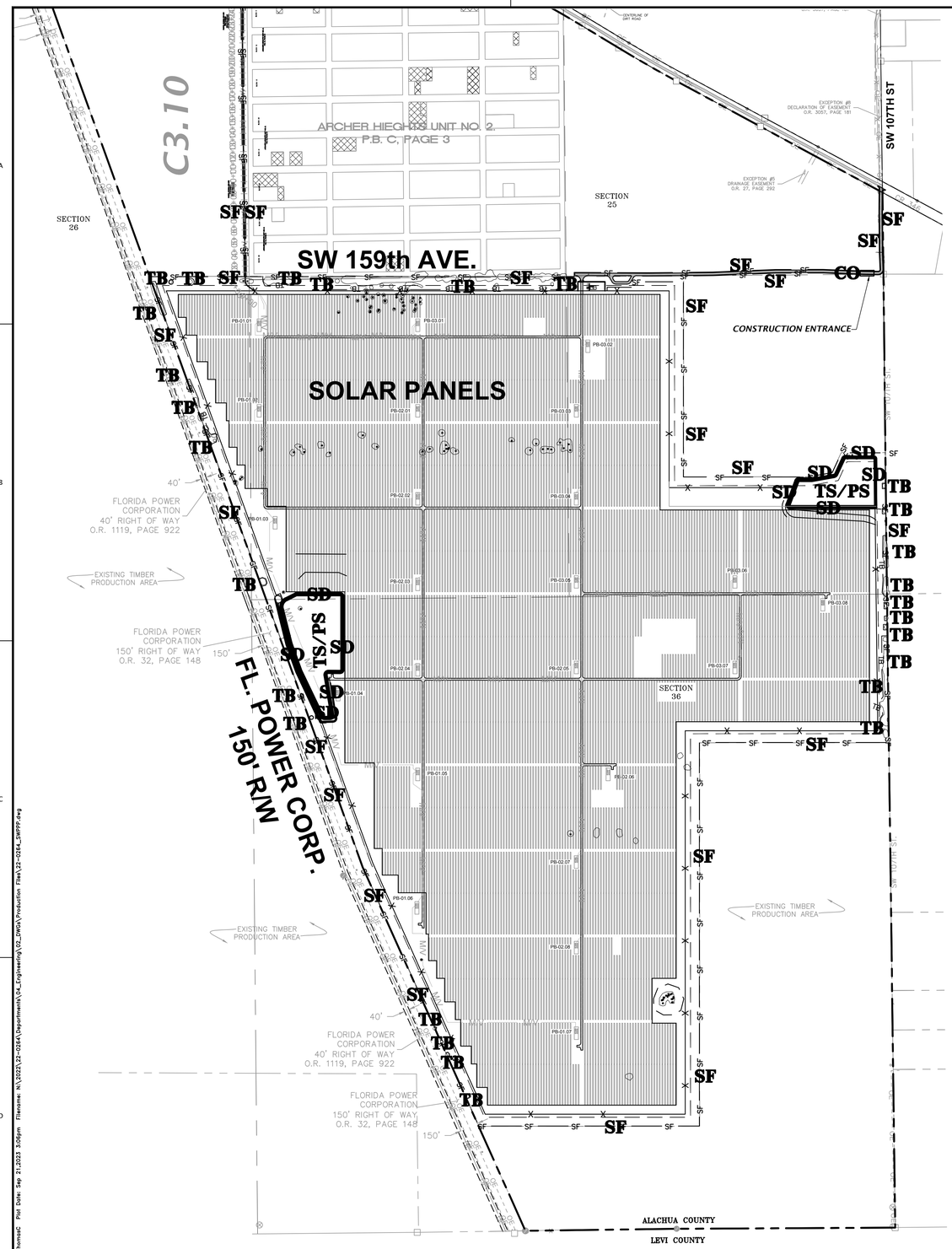
Mitchell G. Mason, P.E.
State of Florida, Professional Engineer, License No. 92335

This item has been digitally signed and sealed by Mitchell G. Mason, P.E. on the date indicated here. 09/21/2023

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

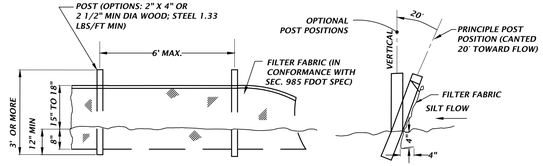
FL PE No. 92335

SHEET NO.: C0.20



STORMWATER POLLUTION PREVENTION LEGEND

- **TS** = TEMPORARY SEEDING
- **PS** = PERMANENT SEEDING
- **ML** = MULCHING
- **SD** = SOD STABILIZATION
- **SF** = SILT BARRIER
- **TB** = TREE BARRIER
- **IP** = INLET PROTECTION
- **OP** = OUTLET PROTECTION
- **CO** = CONSTRUCTION ENTRANCE/EXIT



TYPE III SILT FENCE DETAIL

NTS

NOTE:

NOTE: CONTRACTOR TO RESTORE ALL DISTURBED AREAS TO EXISTING OR BETTER CONDITION.

BASIN EROSION & SEDIMENTATION CONTROL

1. SILT FENCING AND/OR STAKED HAYBALES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION.

2 ALL STORMDRAIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION IN ACCORDANCE WITH FDOT STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.

3. THE DRAINAGE BASINS SHALL BE ROUGH GRADED PRIOR TO CONSTRUCTING THE LIMEROCK BASE. THE RETENTION BASINS SHALL BE FINE GRADED AND GRASSED PRIOR TO PAVING AND SITE CLEANUP.

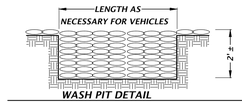
4. THE STORMDRAIN SYSTEM SHALL BE FLUSHED OUT TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION.

5. THE DRAINAGE BASIN BOTTOM SHALL BE SCRAPED CLEAN OF ALL ACCUMMULATED SEDIMENT UPON COMPLETION OF CONSTRUCTION AFTER THE STORMDRAIN SYSTEM IS COMPLETELY FLUSHED OUT. THIS ACTIVITY SHALL ONLY OCUIRR IN A DRY STATE.

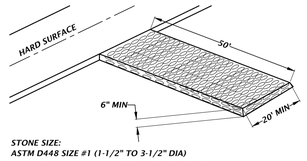
6. ALL DISTURBED AREAS IN THE CONSTRUCTION AREA SHALL BE COMPLETELY STABILIZED BY COMPLETION OF CONSTRUCTION. GRASS SEEDING RATES AND MIXTURES SHALL BE PER SECTION 570 OF THE STANDARD SPECIFICATIONS. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.

7. WHERE POND TOP OF BANK IS IN CUT TO EXISTING GRADE, CONTRACTOR SHALL SOD 5-FT BEYOND TOP OF BANK FOR EROSION PROTECTION.

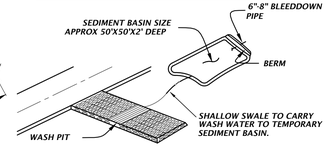
NOTE:
1. CONSTRUCTION EXIT INSTALLATION SHALL REMOVE MUD/SOILS FROM TIRES TO PREVENT TRACKING ONTO PUBLIC ROADS.
2. TOP DRESSING WITH 2" STONE MAY BE REQ'D AS DETERMINED BY THE USE AND FUNCTION OF THE SYSTEM.
3. THE WASH PIT SHOULD BE INSTALLED IF THE STANDARD CONSTRUCTION EXIT DOES NOT SUFFICIENTLY REMOVE SOILS AND WASHING IS REQ'D.



WASH PIT DETAIL



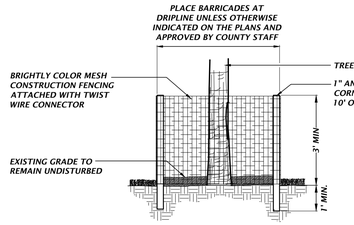
STANDARD CONSTRUCTION EXIT



CONSTRUCTION EXIT WITH WASH PIT

TEMPORARY CONSTRUCTION EXIT DETAIL

NTS



TREE PROTECTION DETAIL

NTS

NOTE:

1) PROTECTIVE BARRIERS SHALL BE CONSTRUCTED, AS NECESSARY, TO PREVENT THE DESTRUCTION OR DAMAGING OF REGULATED TREES THAT ARE LOCATED WITHIN 50 FEET OF ANY CONSTRUCTION ACTIVITY OR STORAGE OF EQUIPMENT AND MATERIALS.

2) PROTECTIVE BARRIERS SHALL BE PLAINLY VISIBLE AND SHALL CREATE A CONTINUOUS BOUNDARY AROUND TREES OR VEGETATION CLUSTERS IN ORDER TO PREVENT ENCROACHMENT BY MACHINERY, VEHICLES OR STORED MATERIALS.

3) TREE BARRICADES MUST BE INSPECTED AND APPROVED BY COUNTY STAFF. PRIOR TO ANY CLEARING, DEMOLITION, OR GRUBBING WORK BEGINS, CONTACT GROWTH MANAGEMENT, 352-374-5249.

4) PROTECTIVE BARRIERS SHALL REMAIN IN PLACE AND INTACT UNTIL SUCH TIME AS LANDSCAPE OPERATIONS BEGIN.

5) ALL CONSTRUCTION ACTIVITIES SHALL BE PROHIBITED WITHIN THE UNDISTURBED AREA INCLUDING ALL DIGGING, TRENCHING, CONSTRUCTION LAY-DOWN AREAS, PLACEMENT OF HAZARDOUS MATERIALS, INCLUDING FUELS AND SOLVENTS, PLACEMENT OF FILL OR SOILS, AND PARKING OF VEHICLES.

6) NO ATTACHMENT OR WIRES SHALL BE ATTACHED TO ANY TREE.

7) NO GRADE CHANGES SHALL BE MADE WITHIN ANY UNDISTURBED AREA WITHOUT PRIOR APPROVAL BY THE COUNTY INSPECTOR. IF A GRADE CHANGE IS MADE AND ROOTS LARGER THAN ONE INCH IN DIAMETER ARE DAMAGED OR EXPOSED, THEY SHALL BE CUT CLEANLY AND RE-COVERED WITH SOIL.

11801 Research Drive
Alachua, FL 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075
CHW Professional Consultants

SCALE: VARIES
VERIFY SCALE BAR IS CORRECT FOR PLOTTED SIZE OF DRAWING
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS

SUBMITTALS:
06/05/2023 - SUBMITTAL TO ALACHUA COUNTY
07/07/2023 - SUBMITTAL TO ALACHUA COUNTY
09/05/2023 - SUBMITTAL TO ALACHUA COUNTY
09/21/2023 - SUBMITTAL TO ALACHUA COUNTY

CLIENT: ORIGIS ENERGY
PROJECT: ORIGIS ENERGY SOLAR FACILITY
SHEET TITLE: STORMWATER POLLUTION PREVENTION PLAN AND DETAILS

TECHNICIAN: KT MCMAHON
DESIGNER: KRISTEN JACKSON
PROJECT CONTROL: M MASON
PROJECT NUMBER: 22-0264

MITCHELL G. MASON

Mitchell G. Mason, P.E.
State of Florida, Professional Engineer, License No. 92335

This item has been digitally signed and sealed by Mitchell G. Mason, P.E. on the date indicated here. 09/21/2023

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

FL PE No. 92335

SHEET NO.: C0.21

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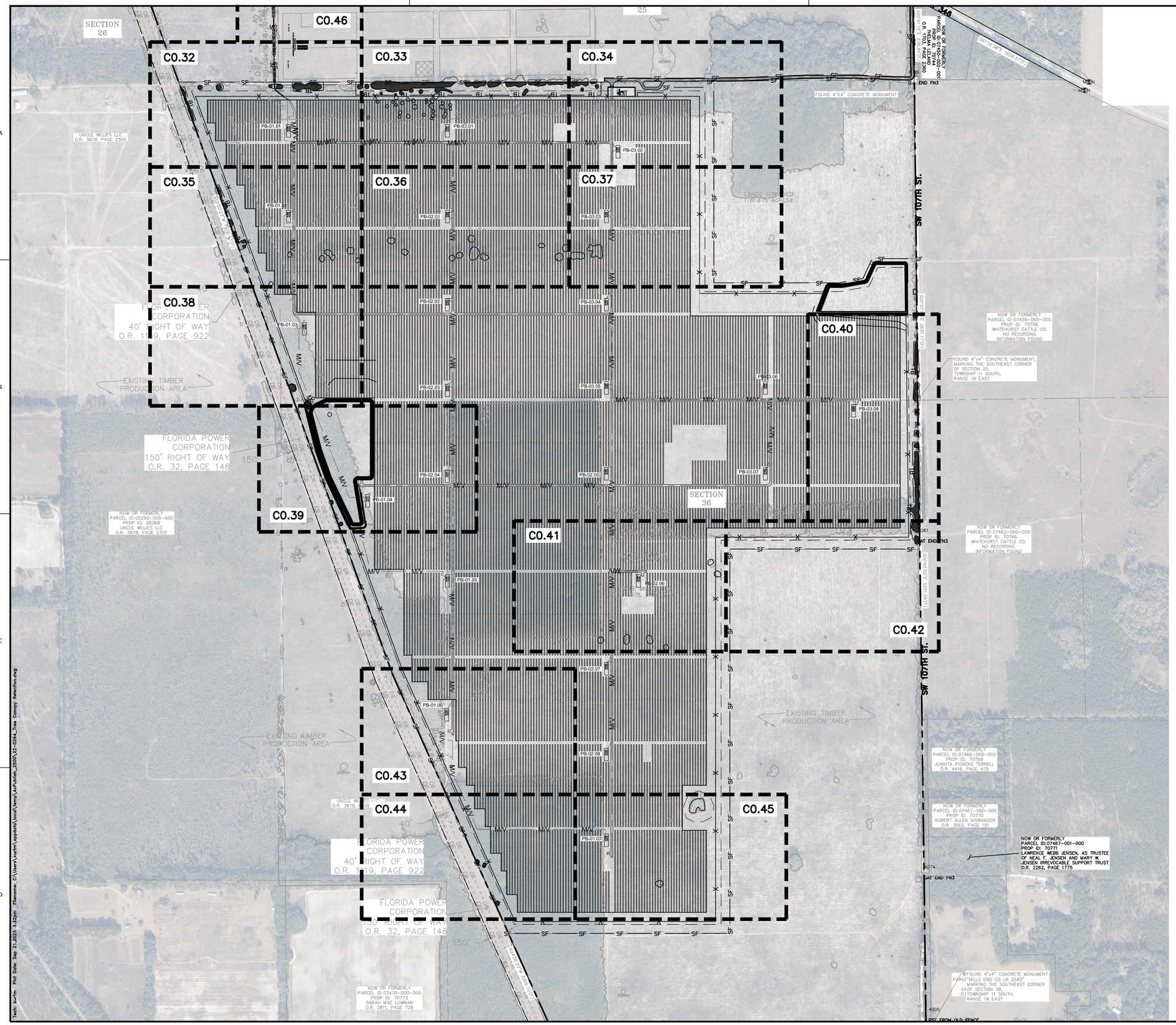

TREE CANOPY PLAN NOTES

1. ULDC §406.12(a)2 REQUIRES THAT DEVELOPMENT PLANS SHALL BE DESIGNED SUCH THAT A MINIMUM OF 20% OF THE TREE CANOPY SHOWN ON THE MOST RECENT AERIALS OF THE PROPERTY AVAILABLE AT THE TIME OF APPLICATION IS RETAINED.

TREE CANOPY			
EXISTING (ACRES)	MIN REQUIRED (ACRES)	RETAINED (ACRES)	RETAINED % OF TOTAL
6.06	1.21	3.54	58%

LEGEND-

EXISTING CANOPY

EXISTING CANOPY (TO REMAIN)

GRAPHIC SCALE

0 200 400 800

N

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SCALE: 1"=400'

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SUBMITTALS:
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07/21/2023 - SUBMITTAL TO ALACHUA COUNTY
09/05/2023 - SUBMITTAL TO ALACHUA COUNTY
09/21/2023 - SUBMITTAL TO ALACHUA COUNTY

CLIENT: ORIGIS ENERGY

PROJECT: ORIGIS ENERGY SOLAR FACILITY

SHEET TITLE: TREE CANOPY PROTECTION PLAN (SOLAR SITE)

TECHNICIAN: KT MCMAHON
DESIGNER: JACKSON
ASSISTANT CONTROL: M. MASON
PROJECT NUMBER: 22-0264

MITCHELL G. MASON

Mitchell G. Mason, P.E.
State of Florida, Professional Engineer, License No. 92335

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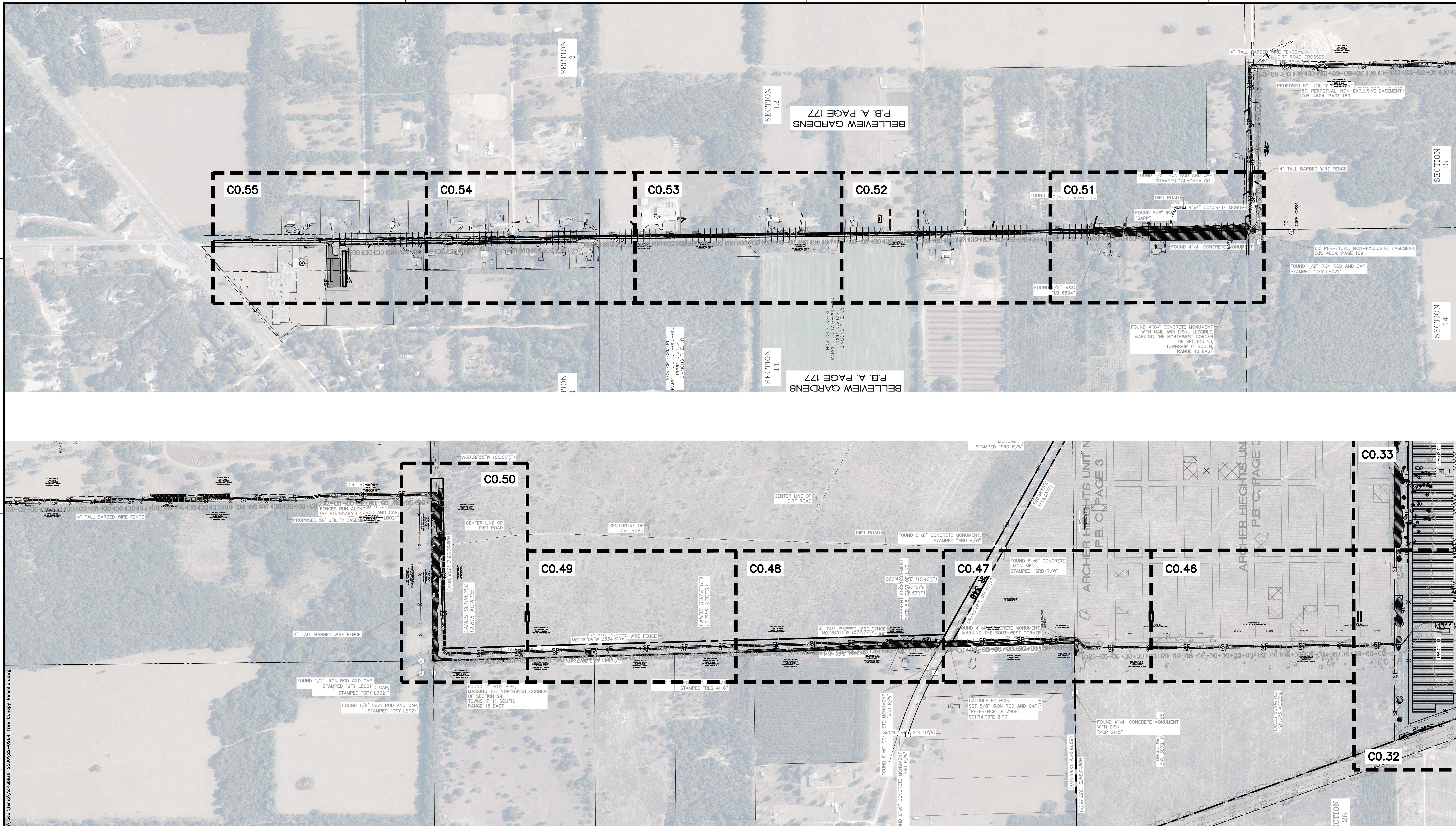
SHEET NO: C0.30

Tech: kwhm Plot Date: Sep 21,2023 3:32pm Filename: C:\Users\kwhm\appdata\local\temp\AcPublish_32500\21-0264_Tree Canopy Retention.dwg



LEGEND-

[swatch]	*EXISTING CANOPY*
[hatched swatch]	*EXISTING CANOPY (TO REMAIN)*

GRAPHIC SCALE

0 200 400 800

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CLIENT: ORIGIS ENERGY

PROJECT: ORIGIS ENERGY SOLAR FACILITY

SHEET TITLE: TREE CANOPY PROTECTION PLAN (UTILITY CONNECTION)

TECHNICIAN: KT MCMAHON
DESIGNER: KRISTEN JACKSON
QUALITY CONTROL: M MASON
PROJECT NUMBER: 22-0264

MITCHELL G. MASON

Mitchell G. Mason, P.E.
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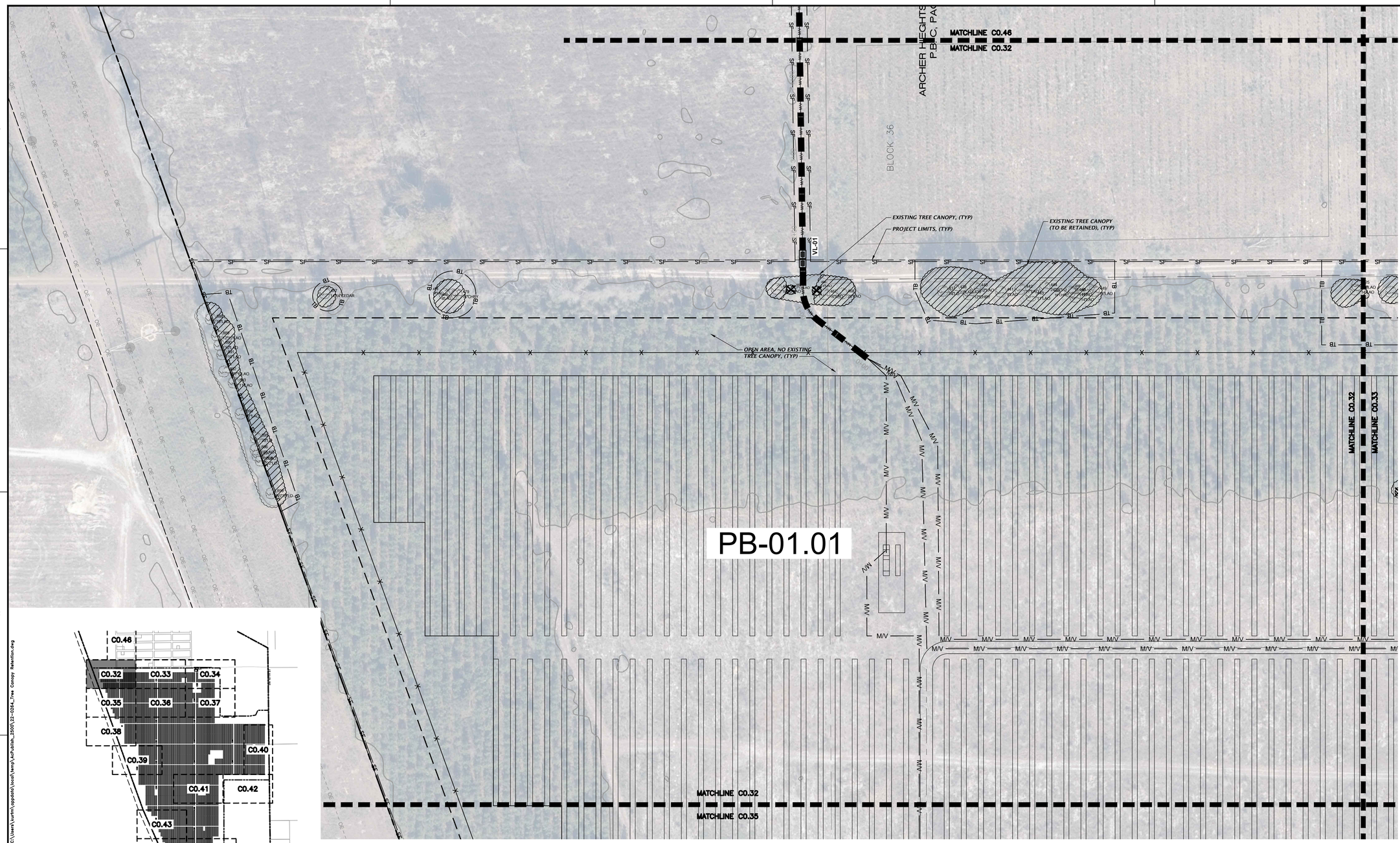
SHEET NO.: C0.31

Tech: kurtm Plot Date: Sep 21,2023 3:33pm Filename: C:\Users\kurtm\appdata\local\temp\AcPublish_2500\22-0264_Tree Canopy Retention.dwg



SITE KEY MAP

SCALE: NTS

Tech: kwhm Plot Date: Sep 21,2023 3:33pm Filename: C:\Users\kwhm\appdata\local\temp\AcPublish_23500\22-0264_Tree Canopy Retention.dwg

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CLIENT: ORIGIS ENERGY

PROJECT: ORIGIS ENERGY SOLAR FACILITY

SHEET TITLE: TREE CANOPY PROTECTION PLAN ENLARGEMENT

TECHNICIAN: KT MCMAHON
DESIGNER: KRISTEN JACKSON
QUALITY CONTROL: M. MASON
PROJECT NUMBER: 22-0264

MITCHELL G. MASON

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SHEET NO: C0.32

PROJECT LIMITS, (TYP)

EXISTING TREE CANOPY (TO BE RETAINED), (TYP)

EXISTING TREE CANOPY, (TYP)

OPEN AREA, NO EXISTING TREE CANOPY, (TYP)

PB-03.01

MATCHLINE CO.32

MATCHLINE CO.33

MATCHLINE CO.33

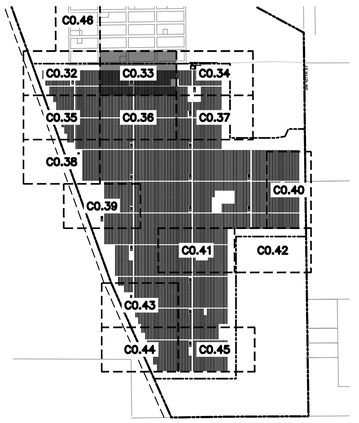
MATCHLINE CO.34

MATCHLINE C0.33

MATCHLINE C0.36

GRAPHIC SCALE

0 30 60 120



SITE KEY MAP

SCALE: NTS

N

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09/05/2023 - SUBMITTAL TO ALACHUA COUNTY
09/21/2023 - SUBMITTAL TO ALACHUA COUNTY

CLIENT: ORIGIS ENERGY

PROJECT: ORIGIS ENERGY SOLAR FACILITY

SHEET TITLE: TREE CANOPY PROTECTION PLAN ENLARGEMENT

TECHNICIAN: KT MCMAHON
DESIGNER: KRISTEN JACKSON
QUALITY CONTROL: M MASON
PROJECT NUMBER: 22-0264

MITCHELL G. MASON

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SHEET NO: C0.33

Tech: kurtm Plot Date: Sep 21,2023 3:54pm Filename: C:\Users\kurtm.bostech\Local\Temp\AcPublish_23500\2D-0264_Tree Canopy Relocation.dwg

DEBRIS

EXISTING TREE CANOPY (TO BE RETAINED), (TYP)

PROJECT LIMITS, (TYP)

OPEN AREA, NO EXISTING TREE CANOPY, (TYP)

PB-03.02

MATCHLINE C0.33

MATCHLINE C0.34

MATCHLINE C0.34

MATCHLINE C0.37

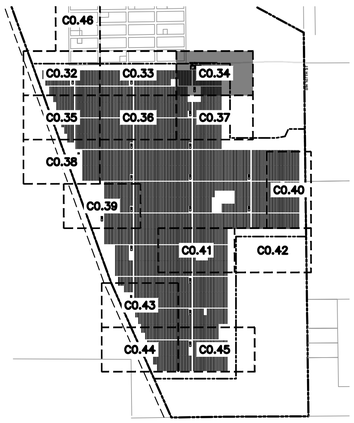
N

GRAPHIC SCALE

0 30 60 120

SITE KEY MAP

SCALE: NTS



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CLIENT: ORIGIS ENERGY

PROJECT: ORIGIS ENERGY SOLAR FACILITY

SHEET TITLE: TREE CANOPY PROTECTION PLAN ENLARGEMENT

TECHNICIAN: KT MCMAHON

DESIGNER: JACKSON

QUALITY CONTROL: M MASON

PROJECT NUMBER: 22-0264

MITCHELL G. MASON

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FL PE No. 92335

SHEET NO: C0.34

MATCHLINE C0.32

MATCHLINE C0.35

OPEN AREA, NO EXISTING TREE CANOPY, (TYP)

PROJECT LIMITS, (TYP)

EXISTING TREE CANOPY (TO BE RETAINED), (TYP)

PB-01.02

EXISTING TREE CANOPY, (TYP)

MATCHLINE C0.35

MATCHLINE C0.36

MATCHLINE C0.35

MATCHLINE C0.38

N

SITE KEY MAP

SCALE: NTS

GRAPHIC SCALE

0 30 60 120

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CLIENT: ORIGIS ENERGY

PROJECT: ORIGIS ENERGY SOLAR FACILITY

SHEET TITLE: TREE CANOPY PROTECTION PLAN ENLARGEMENT

TECHNICIAN: KT MCMAHON

DESIGNER: JACKSON

QUALITY CONTROL: M. MASON

PROJECT NUMBER: 22-0264

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SHEET NO.: C0.35

Tech: kwhn Plot Date: Sep 21,2023 3:34pm Filename: C:\Users\kwhn\appdata\local\temp\AcPublish_20500\22-0264_Tree Canopy Retention.dwg

MATCHLINE C0.33

MATCHLINE C0.36

MATCHLINE C0.35

MATCHLINE C0.36

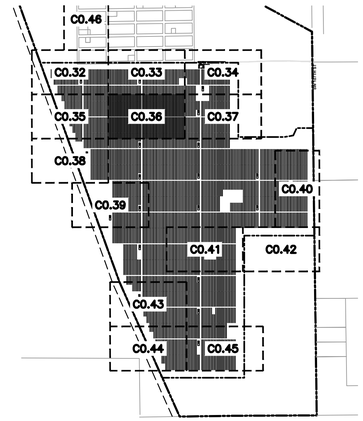
MATCHLINE C0.36

MATCHLINE C0.37

PB-02.01

OPEN AREA, NO EXISTING TREE CANOPY, (TYP)

EXISTING TREE CANOPY, (TYP)



SITE KEY MAP

SCALE: NTS

N

GRAPHIC SCALE

0 30 60 120

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0 1"

CONSTRUCTION/BID REVISIONS:

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09/21/2023 - SUBMITTAL TO ALACHUA COUNTY

CLIENT: ORIGIS ENERGY

PROJECT: ORIGIS ENERGY SOLAR FACILITY

SHEET TITLE: TREE CANOPY PROTECTION PLAN ENLARGEMENT

TECHNICIAN: KT MCMAHON

DESIGNER: KRISTEN JACKSON

PROJECT CONTROL: M MASON

PROJECT NUMBER: 22-0264

MITCHELL G. MASON

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SHEET NO.:

C0.36

Tech: kurhm Plot Date: Sep 21,2023 3:34pm Filename: C:\Users\kurhm\Documents\Work\Work_Updates\Work\Work_Ltr-Sch\Sch_2800\22-0264_Tree Canopy Retention.dwg

MATCHLINE C0.34

MATCHLINE C0.37

MATCHLINE C0.36

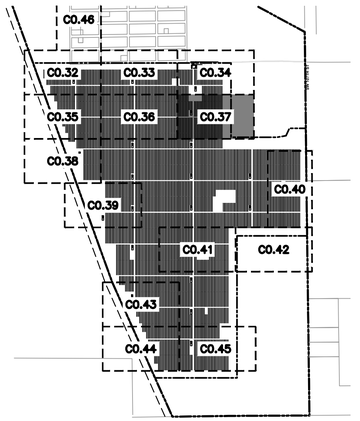
MATCHLINE C0.37

OPEN AREA, NO EXISTING TREE CANOPY, (TYP)

EXISTING TREE CANOPY, (TYP)

PROJECT LIMITS, (TYP)

PB-03.03



SITE KEY MAP

SCALE: NTS

GRAPHIC SCALE

0 30 60 120

N

Tech: kwm Plot Date: Sep 21,2023 1:35pm Filename: C:\Users\kwm\appdata\local\temp\AcPublish_26900\22-0264_Tree Canopy Relation.dwg

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CLIENT: ORIGIS ENERGY

PROJECT: ORIGIS ENERGY SOLAR FACILITY

SHEET TITLE: TREE CANOPY PROTECTION PLAN ENLARGEMENT

TECHNICIAN: KT MCMAHON

DESIGNER: KRISTINA JACKSON

QUALITY CONTROL: M MASON

PROJECT NUMBER: 22-0264

MITCHELL G. MASON

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SHEET NO.
C0.37

MATCHLINE C0.35
MATCHLINE C0.38

EXISTING TREE CANOPY, (TYP)

OPEN AREA, NO EXISTING TREE CANOPY, (TYP)

PB-01.03

PROJECT LIMITS, (TYP)

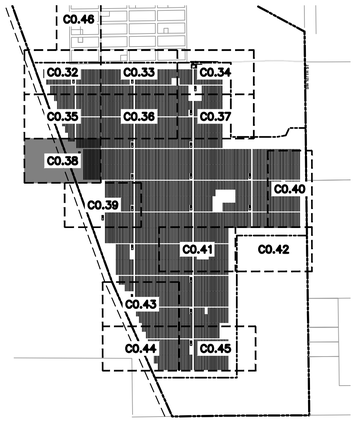
EXISTING TREE CANOPY (TO BE RETAINED), (TYP)

MATCHLINE C0.38
MATCHLINE C0.39

N

GRAPHIC SCALE
0 30 60 120

SITE KEY MAP
SCALE: NTS



Tech: kurtm Plot Date: Sep 21,2023 3:35pm Filename: C:\Users\kurtm\cpadata\acad\temp\Ad-Shish_2500\22-0264_Tree Canopy Retention.dwg

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CLIENT: ORIGIS ENERGY
PROJECT: ORIGIS ENERGY SOLAR FACILITY
SHEET TITLE: TREE CANOPY PROTECTION PLAN ENLARGEMENT

TECHNICIAN: KT MCMAHON
DESIGNER: KRISTEN JACKSON
PROJECT CONTROL: M MASON
PROJECT NUMBER: 22-0264

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FL PE No. 92335

SHEET NO.: C0.38

MATCHLINE C0.38

MATCHLINE C0.39

EXISTING TREE CANOPY, (TYP)

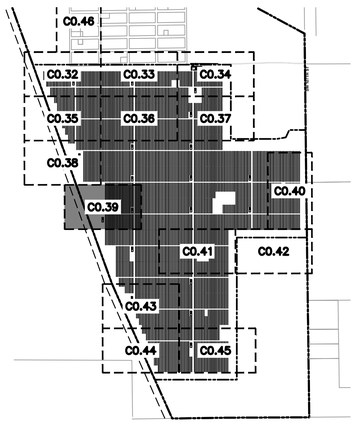
OPEN AREA, NO EXISTING TREE CANOPY, (TYP)

PROJECT LIMITS, (TYP)

EXISTING TREE CANOPY (TO BE RETAINED), (TYP)

PB-02.04

PB-01.04



SITE KEY MAP

SCALE: NTS

GRAPHIC SCALE

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CLIENT: ORIGIS ENERGY

PROJECT: ORIGIS ENERGY SOLAR FACILITY

SHEET TITLE: TREE CANOPY PROTECTION PLAN ENLARGEMENT

TECHNICIAN: KT MCMAHON
DESIGNER: KRISTEN JACKSON
QUALITY CONTROL: M MASON
PROJECT NUMBER: 22-0264

MITCHELL G. MASON

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SHEET NO.: C0.39

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