LUCK CHEROKEE

INITIAL EROSION & SEDIMENT CONTROL PLAN

FOR

LUCK STONE CORPORATION

CHEROKEE COUNTY, SOUTH CAROLINA

MAY 2025

REVISED JULY 2025

SITE

LUCK CHEROKEE
OLD POST ROAD
MACEDONIA, SC 29341

OPERATOR

BRUCE SMITH
BRUCESMITH@LUCKCOMPANIES.COM
(804) 641-9458

OWNER

LUCK STONE CORPORATION
515 STONE MILL DRIVE (P.O. BOX 29682)
RICHMOND, VA 23242

LUCK STONE

CHEROKEE COUNTY, SOUTH CAROLINA
PROJECT SITE LOCATION
SCALE: 1" = 1 MILE

INDEX TO DRAWINGS

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
No. C00614

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 21474
R. BRANT LANE
7/16/25

HNT ENVIRONMENTAL CONSULTANTS
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
3920 ARKWRIGHT ROAD, SUITE 101 - MACON, GEORGIA 31210
PHONE: (478) 743-7175
FAX: (478) 743-1703

REVISION HISTORY

DATE	DESCRIPTION	SHEETS
07/16/2025	REVISED POND NO. 2 AND 9 DESIGN AND STREAM CROSSING LOCATION	TS, 3, 5

SIOUX ROAD

GREEN RIVER ROAD

THICKETTY CREEK
WATERSHED
#19 RESERVOIR

100-YEAR FLOOD
PLAIN (TYP.)

EXISTING STREAM
CROSSING (TYP.)

ADJACENT PROPERTY
LINE (TYP.)

DUKE POWER
COMPANY 150'
MAINTAINED R/W

EXISTING
UN-PAVED ROAD

EXISTING SITE
ENTRANCE

EXISTING
PAVED ROAD

OLD POST ROAD

MILIKEN ROAD (I-85)

LEGEND

- PROPERTY LINE
- PROPOSED PERMIT BOUNDARY
- 50' PROPERTY LINE / WETLAND BUFFER
- EXISTING GRADE CONTOUR (10 FEET) — 100
- EXISTING GRADE CONTOUR (2 FEET)
- 100-YEAR FLOODPLAIN
- STREAMS
- WETLANDS

GENERAL NOTES:

1. PARCEL LINES, FLOODPLAIN, POWER LINE EASEMENTS AND EXISTING TOPOGRAPHY SURVEY PROVIDED BY GLENN ASSOCIATES SURVEYING, INC. IN JANUARY 2025. HORIZONTAL DATUM IS SOUTH CAROLINA NAD 83 (2011), INTERNATIONAL FEET.
2. AQUATIC RESOURCE DELINEATION PERFORMED BY HHNT ECOLOGISTS 11/11/2024-11/13/2024. DEPICTED WATERS OF THE U.S. DELINEATION REMAINS AN OPINION OF HHNT UNTIL FORMALLY VERIFIED IN WRITING BY THE U.S. ARMY CORPS OF ENGINEERS VIA A FORMAL DETERMINATION LETTER. PRIOR TO SUBMITTING SURFACE MINING PLANS TO SCDES A WATERS OF THE U.S. DELINEATION WILL BE SUBMITTED TO THE USACE.

300 150 0 300 600
GRAPHIC SCALE IN FEET

SOUTH CAROLINA
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
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SOUTH CAROLINA
No. 21474
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BRANT LANE
7/16/25

EXISTING CONDITIONS

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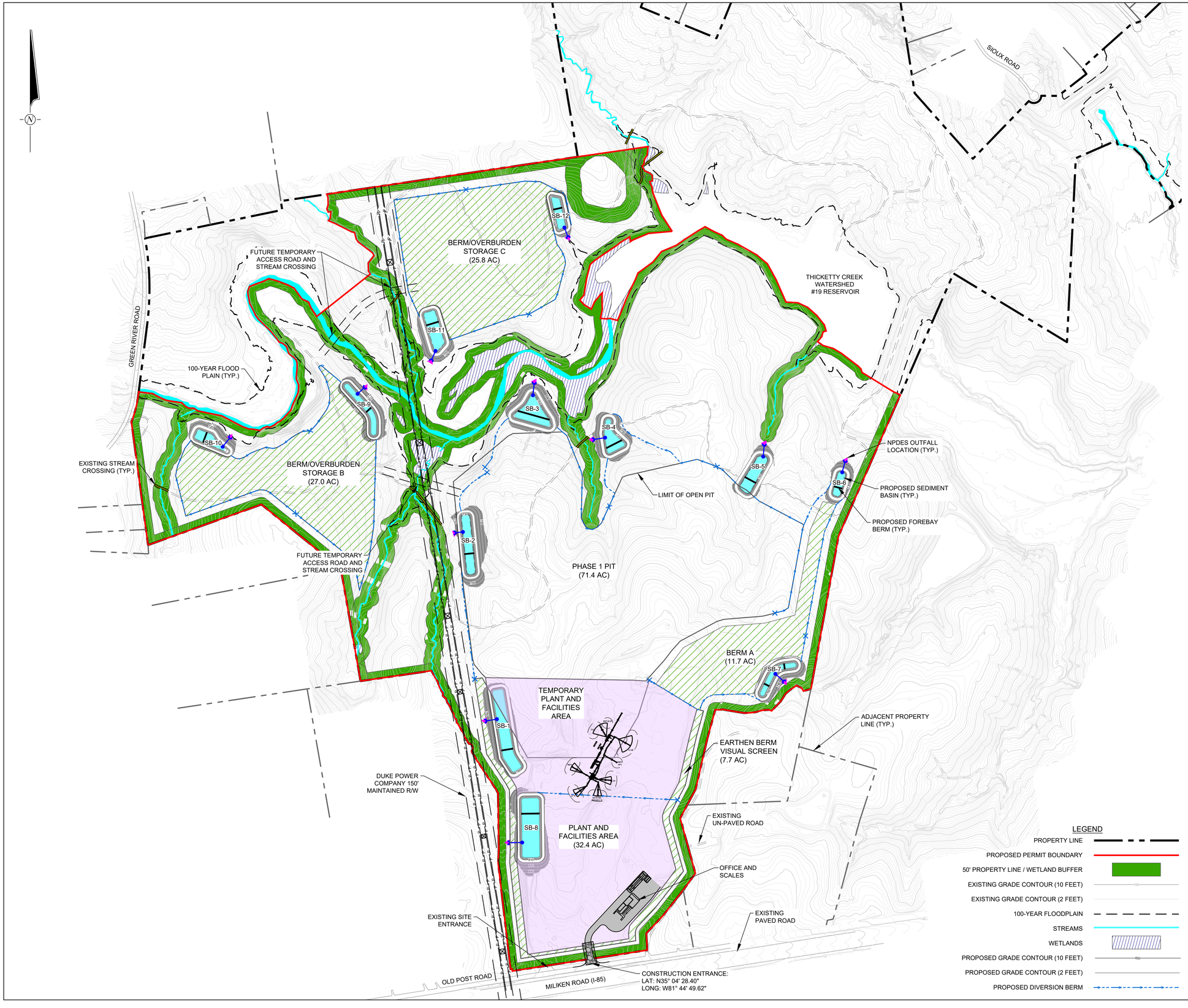
PROJ. NO.	4780-025-01	DWG. LUCK-CHRK-E&SC	EDIT 05-09-2025
SCALE	1" = 300'	SHEET 1 OF 4	
DATE	MAY 2025		



W1 W2 L — RIP-RAP OUTLET PROTECTION

BASIN NO.	RIP-RAP SIZE	LENGTH(L)	W1	W2
1	CLASS B	20'	6'	22'
2	CLASS B	18'	6'	20'
3	CLASS B	22'	6'	24'
4	CLASS A	13'	6'	15'
5	CLASS B	18'	6'	20'
6	CLASS A	13'	6'	15'
7	CLASS A	13'	6'	15'
8	CLASS B	18'	6'	20'
9	CLASS A	13'	6'	15'
10	CLASS A	13'	6'	15'
11	CLASS A	17'	6'	19'
12	CLASS A	13'	6'	15'

EROSION & SEDIMENT CONTROL NOTES:

1. PERIMETER SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. EROSION & SEDIMENT CONTROL BMPs AS SHOWN ON THESE PLANS SHALL BE CONSIDERED THE MINIMUM REQUIRED. IT IS THE OPERATOR'S RESPONSIBILITY TO ADEQUATELY CONTROL STORMWATER IN THE PROJECT AREA AND TO REDUCE OFF-SITE DISCHARGE OF SEDIMENT TO THE MAXIMUM EXTENT PRACTICAL.
4. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
5. SOIL STOCKPILES AND SEDIMENT BASINS SHALL BE LOCATED OUTSIDE OF ANY NATURAL BUFFER.
6. SOIL STOCKPILES SHALL BE ENCLOSED IN SILT FENCE AND UTILIZE DIVERSION BERMS ALONG SIDE SLOPES TO PREVENT EROSION.
7. A DOUBLE ROW OF SILT FENCE SHALL BE USED WHERE ANY LAND DISTURBING ACTIVITY TAKES PLACE ADJACENT TO JURISDICTIONAL WETLANDS OR STREAMS WITHIN 200 FEET.
8. OUTLET PROTECTION SHALL BE INSTALLED AT EACH SEDIMENT BASIN OUTFALL AS PROVIDED IN THE ABOVE TABLE.
9. DUST GENERATION SHALL BE MINIMIZED THROUGH THE APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES.
10. FINAL STABILIZATION OF DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE INITIATED NO MORE THAN 14 DAYS AFTER EARTH-DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED.
11. THERE WILL BE NO IMPACT TO ANY JURISDICTIONAL WETLAND OR STREAMS PRIOR TO OBTAINING ALL NECESSARY PERMITS FROM THE ARMY CORPS OF ENGINEERS AND SCDES.
12. FUTURE TEMPORARY ACCESS ROAD AND STREAM CROSSING DESIGNS WILL INCLUDE COMPLETE DESIGNS AND EROSION AND SEDIMENTATION CONTROL DETAILS PRIOR TO ANY DISTURBANCE IN THESE AREAS.

GENERAL NOTES:

1. PARCEL LINES, FLOODPLAIN, POWER LINE EASEMENTS AND EXISTING TOPOGRAPHY SURVEY PROVIDED BY GLENN ASSOCIATES SURVEYING, INC. IN JANUARY 2025. HORIZONTAL DATUM IS SOUTH CAROLINA NAD 83 (2011), INTERNATIONAL FEET.
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300 150 0 300 600
GRAPHIC SCALE IN FEET

LEGEND
- PROPERTY LINE
- PROPOSED PERMIT BOUNDARY
- 50' PROPERTY LINE / WETLAND BUFFER
- EXISTING GRADE CONTOUR (10 FEET)
- EXISTING GRADE CONTOUR (2 FEET)
- 100-YEAR FLOODPLAIN
- STREAMS
- WETLANDS
- PROPOSED GRADE CONTOUR (10 FEET)
- PROPOSED GRADE CONTOUR (2 FEET)
- PROPOSED DIVERSION BERM

SOUTH CAROLINA — HODGES, HARBIN, NEWBERRY & TRIBBLE, INC. — No. C00614 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 21474 — H. BRANT LANE — LICENSED PROFESSIONAL ENGINEER — 7/16/25

REVISION 1: 7/16/2025 - REVISED POND NO. 2 AND 9 DESIGN AND STREAM CROSSING LOCATION

INITIAL EROSION AND SEDIMENT CONTROL PLAN

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INITIAL EROSION & SEDIMENT CONTROL PLAN
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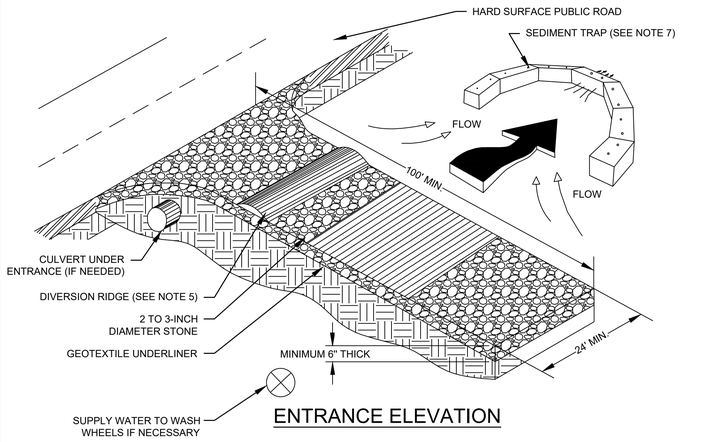
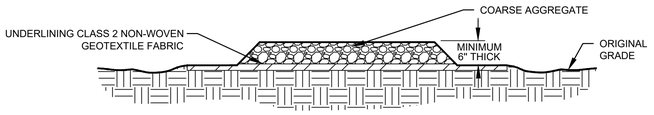
DATE	MAY 2025		

1



ENTRANCE ELEVATION



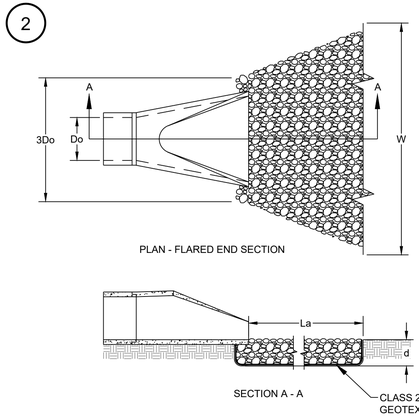
NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
4. PAD WIDTH SHALL BE EQUAL TO FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 24'.
5. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
6. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
7. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT POND (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
8. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.

MAINTENANCE DURING CONSTRUCTION:
1. INSPECTIONS OF SEDIMENT BASINS SHOULD BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS OF EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-3 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT.
3. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

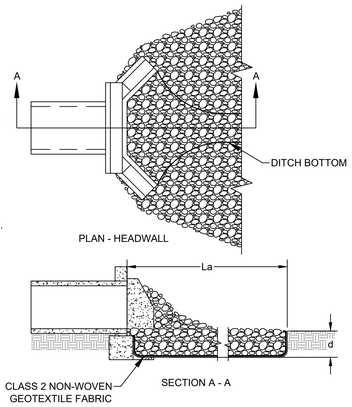
CONSTRUCTION ENTRANCE

SCALE: NOT TO SCALE

2



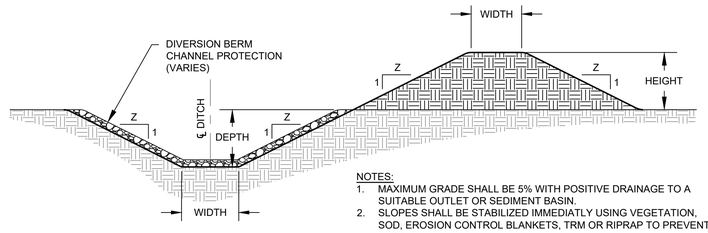
NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. d = 2 TIMES THE MAXIMUM RIPRAP DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP IN THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A CLASS 2 NON-WOVEN GEOTEXTILE FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.



OUTLET PROTECTION

SCALE: NOT TO SCALE

3



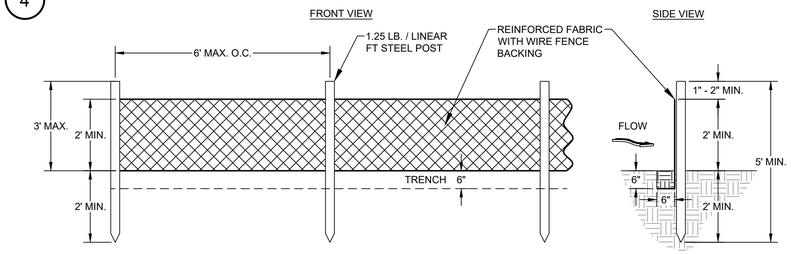
NOTES:
1. MAXIMUM GRADE SHALL BE 5% WITH POSITIVE DRAINAGE TO A SUITABLE OUTLET OR SEDIMENT BASIN.
2. SLOPES SHALL BE STABILIZED IMMEDIATLY USING VEGETATION, SOD, EROSION CONTROL BLANKETS, TRM OR RIPRAP TO PREVENT EROSION.
3. SPECIFIC DIVERSION BERM CHANNEL PROTECTION DESIGN TO BE PERFORMED AT TIME OF CONSTRUCTION.

MAINTENANCE DURING CONSTRUCTION:
1. INSPECTIONS OF DIVERSION BERMS AND CHANNELS SHOULD BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS OF EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
2. DAMAGE CAUSED BY CONSTRUCTION TRAFFIC OR OTHER ACTIVITY MUST BE REPAIRED BEFORE THE END OF EACH WORKING DAY.

DIVERSION BERM CHANNEL

SCALE: 1" = 5'

4



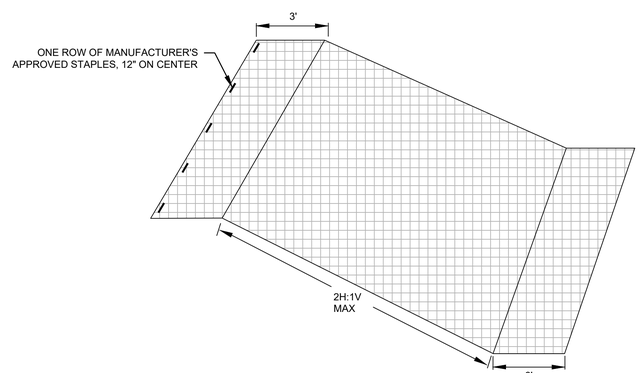
NOTES:
1. FLOWS MAY NECESSITATE THE PLACEMENT OF HAY BALES IN FRONT OF FILTER FABRIC (EXCEPT IN DITCH CHANNELS).
2. THE FILTER FABRIC SHALL BE CHOSEN FROM THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCT LISTING (QPL), APPROVAL SHEET #34.
3. FABRIC SHALL BE REINFORCED WITH WIRE FENCE BACKING AND 12" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH.
4. FABRIC SHALL BE ATTACHED IN ACCORDANCE WITH THE "SOUTH CAROLINA DES STORM WATER MANAGEMENT BMP FIELD MANUAL".
5. SILT FENCE WILL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

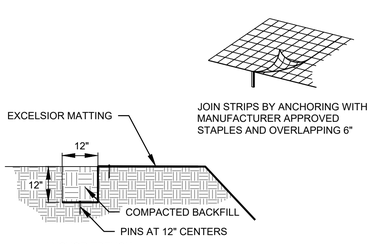
MAINTENANCE DURING CONSTRUCTION:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE SILT FENCE.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED AND ONCE REMOVED, THE RESULTING DISTURBED AREA SHALL BE PERMANENTLY STABILIZED.

REINFORCED SILT FENCE

SCALE: 1" = 2'

5





NOTES:
1. INSTALL SEED PRIOR TO PLACEMENT OF MATTING.
2. INSTALL DOWNSTREAM OR DOWNWIND MAT FIRST AND INSTALL NEXT MAT OVER THE LEADING EDGE AND OVERLAP 6 INCHES.
3. INSTALL ALL MATS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
4. IF 3' RUNOUT AT TOP OF SLOPE IS NOT PROVIDED FOR EXCELSIOR MATTING, MAT SHALL BE ANCHORED IN TRENCH IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
5. STAPLE PATTERN SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
6. TRM ON SLOPES MAY BE INSTALLED IN A SIMILAR MANNER BUT SHALL BE ANCHORED IN TRENCHES AT THE TOP AND BOTTOM OF SLOPES AS RECOMMENDED BY THE MANUFACTURER.

MAINTENANCE DURING CONSTRUCTION:
1. INSPECTIONS OF SLOPE STABILIZATION MATTING SHOULD BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS OF EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
2. DAMAGE CAUSED BY CONSTRUCTION TRAFFIC OR OTHER ACTIVITY MUST BE REPAIRED BEFORE THE END OF EACH WORKING DAY.

SLOPE STABILIZATION (EXCELSIOR WOOD FIBER MATTING)

SCALE: NOT TO SCALE

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No. C00614

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EROSION CONTROL DETAILS

LUCK CHEROKEE
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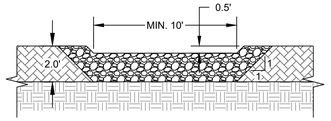
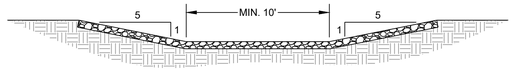
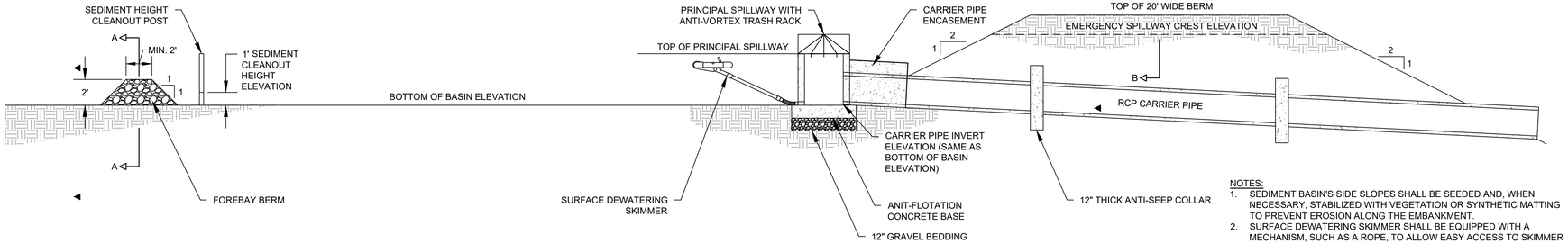


SECTION A-A FOREBAY BERM



SECTION B-B EMERGENCY SPILLWAY



SEDIMENT BASIN DATA

	POND #1	POND #2	POND #3	POND #4	POND #5	POND #6	POND #7	POND #8	POND #9	POND #10	POND #11	POND #12
BOTTOM OF BASIN ELEVATION (FT)	784.00	727.00	696.00	714.00	737.00	728.00	782.00	802.00	714.00	718.50	700.50	692.00
SEDIMENT CLEANOUT HEIGHT ELEVATION (FT)	785.00	728.00	697.00	715.00	738.00	729.00	783.00	803.00	715.00	719.50	701.50	693.00
TOP OF FOREBAY BERM ELEVATION (FT)	786.00	729.00	698.00	716.00	739.00	730.00	784.00	804.00	716.00	720.50	702.50	694.00
SEDIMENT STORAGE VOLUME REQUIRED @ 3,600 CF / AC (CF)	90,180	66,744	90,180	41,580	59,256	14,724	35,784	90,468	40,932	30,960	50,256	33,588
SEDIMENT STORAGE @ RISER CREST ELEVATION (CF)	241,078	160,647	213,557	107,047	142,851	34,083	87,123	264,830	114,124	77,704	120,387	80,962
SEDIMENT STORAGE VOLUME REQUIRED WITHIN FOREBAY (CF)	18,036	13,349	18,036	8,316	11,851	2,945	7,157	18,094	8,186	6,192	10,051	6,718
SEDIMENT STORAGE @ FOREBAY BERM HEIGHT (CF)	24,108	16,645	22,903	10,592	14,009	6,114	10,992	25,527	14,973	9,074	13,814	8,952
TOP OF PRINCIPAL SPILLWAY ELEVATION (FT)	789.00	732.75	703.00	719.50	743.00	731.50	787.75	807.00	719.50	723.75	705.50	697.50
10YR, 24-HOUR STORM EVENT ELEVATION (FT)	789.39	732.99	703.28	719.64	743.22	731.63	787.90	807.27	719.60	723.88	705.71	697.65
25YR, 24-HOUR STORM EVENT ELEVATION (FT)	790.03	733.43	703.81	719.92	743.66	731.95	788.23	807.68	719.80	724.19	706.14	698.01
EMERGENCY SPILLWAY CREST WIDTH (5:1 SIDE SLOPES) (FT)	20'	20'	25'	20'	20'	20'	20'	20'	20'	20'	20'	20'
EMERGENCY SPILLWAY CREST ELEVATION (FT)	790.40	735.00	704.30	721.00	744.50	733.00	789.00	808.50	720.75	725.00	706.75	699.00
100YR, 24-HOUR STORM EVENT ELEVATION (FT)	791.27	735.02	705.30	721.07	745.06	732.46	789.25	809.01	720.67	725.14	707.30	699.07
TOP OF BERM ELEVATION (FT)	792.00	736.00	706.00	722.00	746.00	734.00	790.00	810.00	722.00	726.00	708.00	700.00

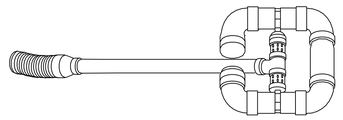
PROPOSED SEDIMENT BASINS

SCALE: 1" = 5'

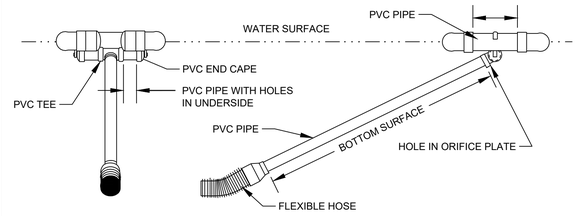
NOTES:
1. SEDIMENT BASIN'S SIDE SLOPES SHALL BE SEEDED AND, WHEN NECESSARY, STABILIZED WITH VEGETATION OR SYNTHETIC MATTING TO PREVENT EROSION ALONG THE EMBANKMENT.
2. SURFACE DEWATERING SKIMMER SHALL BE EQUIPPED WITH A MECHANISM, SUCH AS A ROPE, TO ALLOW EASY ACCESS TO SKIMMER FOR UNCLOGGING ORIFICE OR PERFORMING OTHER NECESSARY MAINTENANCE.
3. THE FOREBAY BERM SHOULD BE CONSTRUCTED ACROSS THE BOTTOM OF THE BASIN WIDTH AT THE LOCATION IN THE PLANS. IT SHALL CONSIST OF RIPRAP, GABION, OR AN EARTHEN BERM WITH A ROCK FILLED OUTLET.

MAINTENANCE DURING CONSTRUCTION:
1. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FOREBAY BERM.
2. REMOVED SEDIMENT FROM THE BASIN SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS THE DISTURBED AREA . REMOVED SEDIMENT SHALL BE STABILIZED AFTER IT IS RELOCATED.
3. INSPECTIONS OF SEDIMENT BASINS SHOULD BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS OF EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
4. ALL TEMPORARY SEDIMENT BASINS, WHICH ARE NOT TO BE CONVERTED TO A DETENTION BASIN POST-CONSTRUCTION, SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED.
5. DISTURBED AREAS RESULTING FROM THE REMOVAL OF THE SEDIMENT BASIN SHOULD BE PERMANENTLY STABILIZED AND ADDITIONAL BMP, SUCH AS SILT FENCE, SHOULD BE UTILIZED TO ACCEPT STORMWATER RUNOFF FROM THIS DISTURBED AREA UNTIL FINAL STABILIZATION IS REACHED.

2



SKIMMER PERSPECTIVE



SKIMMER FRONTAL SECTION VIEW

SKIMMER SIDE SECTION VIEW

NOTE:
1. SKIMMER CONFIGURATION IS TYPICAL. SEE TABLE ON DETAIL 3 FOR SIZING DETAILS.

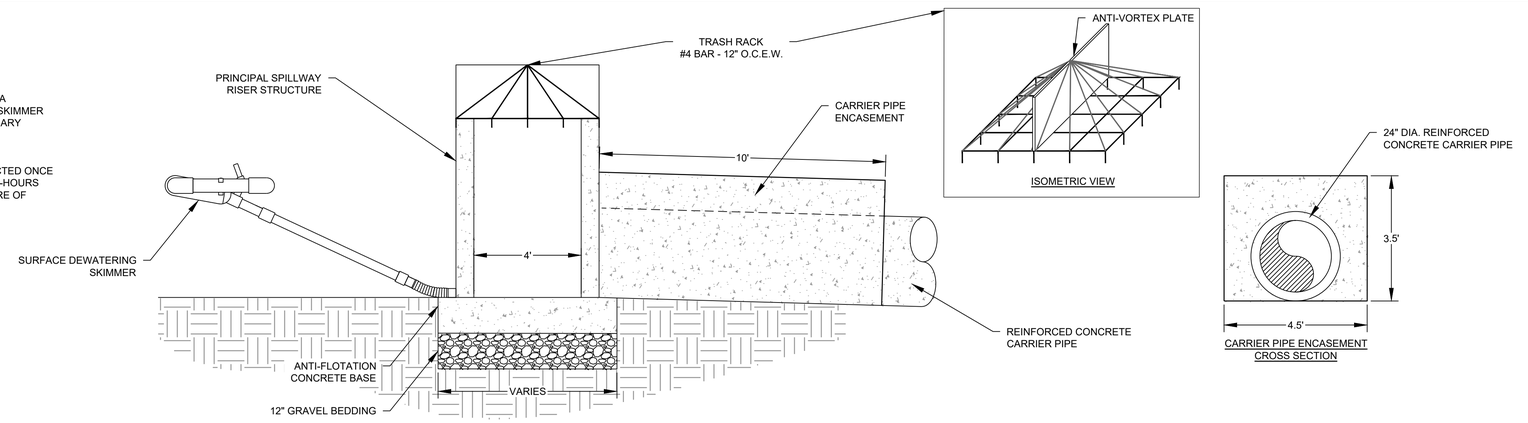
SURFACE DEWATERING SKIMMER

SCALE: NOT TO SCALE

3

NOTES:
1. SURFACE DEWATERING SKIMMER SHALL BE EQUIPPED WITH A MECHANISM, SUCH AS A ROPE, TO ALLOW EASY ACCESS TO SKIMMER FOR UNCLOGGING ORIFICE OR PERFORMING OTHER NECESSARY MAINTENANCE.

MAINTENANCE DURING CONSTRUCTION:
1. INSPECTIONS OF PRINCIPAL SPILLWAYS SHOULD BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS OF EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.



PRINCIPAL SPILLWAY CONCRETE STRUCTURE

	POND #1	POND #2	POND #3	POND #4	POND #5	POND #6	POND #7	POND #8	POND #9	POND #10	POND #11	POND #12
SIZE (6" WALL THICKNESS) (FT)	4' x 4'	4' x 4'	4' x 4'	4' x 4'	4' x 4'	4' x 4'	4' x 4'	4' x 4'	4' x 4'	4' x 4'	4' x 4'	4' x 4'
HEIGHT (FT)	5.00	5.75	7.00	5.50	6.00	3.50	5.75	5.00	5.50	5.25	5.00	5.50
INVERT ELEVATION (BOTTOM OF STRUCTURE / TOP OF BASE) (FT)	784.00	727.00	696.00	714.00	737.00	728.00	782.00	802.00	714.00	718.50	700.50	692.00
TOP OF PRINCIPAL SPILLWAY ELEVATION (FT)	789.00	732.75	703.00	719.50	743.00	732.00	787.75	807.00	719.50	723.75	705.50	697.50
ANTI-FLOTATION CONCRETE BASE DIMENSIONS (L x W x H) (FT)	6' x 6' x 2'	6' x 6' x 2'	6.5' x 6.5' x 2'	6' x 6' x 2'	6' x 6' x 2'	6' x 6' x 2'	6' x 6' x 2'	6' x 6' x 2'	6' x 6' x 2'	6' x 6' x 2'	6' x 6' x 2'	6' x 6' x 2'
SURFACE DEWATERING SKIMMER (NUMBER - DIAMETER)	1 - 8"	1 - 6"	1 - 8"	1 - 5"	1 - 6"	1 - 3"	1 - 5"	1 - 8"	1 - 5"	1 - 4"	1 - 5"	1 - 5"
INVERT ELEVATION FOR SURFACE DEWATERING SKIMMER (FT.)	784.00	727.00	696.00	714.00	737.00	728.00	782.00	802.00	714.00	718.50	700.50	692.00

NOTE:
SURFACE DEWATERING SKIMMER SIZE IS BASED ON FAIRCLOTH SKIMMERS. ALTERNATIVE SKIMMERS WITH EQUIVALENT FLOWS MAY BE UTILIZED AT THE OPERATOR'S DISCRETION.

RCP CARRIER PIPE

	POND #1	POND #2	POND #3	POND #4	POND #5	POND #6	POND #7	POND #8	POND #9	POND #10	POND #11	POND #12
DIAMETER (IN)	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"
LENGTH (FT)	76'	53'	81'	80'	78'	76'	76'	90'	63'	79'	67'	68'
SLOPE (%)	18.42%	1.89%	12.35%	20.00%	16.67%	23.68%	18.42%	2.22%	9.52%	20.89%	15.67%	14.71%
INLET INVERT ELEVATION (FT)	784.00	727.00	696.00	714.00	737.00	728.00	782.00	802.00	714.00	718.50	700.50	692.00
OUTLET INVERT ELEVATION (FT)	770.00	726.00	686.00	698.00	724.00	710.00	768.00	800.00	708.00	702.00	690.00	682.00
NO. & SIZE OF ANTI-SEEP COLLARS (12" WALL THICKNESS) (FT)	2 - 8.0 x 8.0	2 - 5.5 x 5.5	2 - 8.0 x 8.0	2 - 8.0 x 8.0	2 - 8.0 x 8.0	2 - 8.0 x 8.0	2 - 8.0 x 8.0	2 - 5.5 x 5.5	2 - 6.0 x 6.0	2 - 8.0 x 8.0	2 - 8.0 x 8.0	2 - 8.0 x 8.0
CARRIER PIPE ENCASEMENT (L x W x H) (FT)	10.0 x 4.5 x 3.5	10.0 x 4.5 x 3.5	10.0 x 4.5 x 3.5	10.0 x 4.5 x 3.5	10.0 x 4.5 x 3.5	10.0 x 4.5 x 3.5	10.0 x 4.5 x 3.5	10.0 x 4.5 x 3.5	10.0 x 4.5 x 3.5	10.0 x 4.5 x 3.5	10.0 x 4.5 x 3.5	10.0 x 4.5 x 3.5

PRINCIPAL SPILLWAY

SCALE: NOT TO SCALE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — HODGES, HARBIN, NEWBERRY & TRIBBLE, INC. — No. C00614

SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER — No. 21474 — BRANT LANE — 7/16/25

REVISION 1: 7/16/2025 - REVISED POND NO. 2 AND 9 DESIGN

SEDIMENT BASIN DETAILS

LUCK CHEROKEE
INITIAL EROSION & SEDIMENT CONTROL PLAN
FOR
LUCK STONE CORPORATION
CHEROKEE COUNTY, SOUTH CAROLINA

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HNT ENVIRONMENTAL CONSULTANTS
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
3920 ARKWRIGHT RD.
SUITE 101
MACON, GEORGIA 31210

PROJ. NO.	4780-025-01	DWG. LUCK-CHRK-E&SC	EDIT 05-09-2025
SCALE	AS SHOWN	SHEET 4 OF 4	
DATE	MAY 2025		