LUCK SALUDA INITIAL EROSION & SEDIMENT CONTROL PLAN

FOR

LUCK STONE CORPORATION

SALUDA COUNTY, SOUTH CAROLINA

SITE

LUCK SALUDA DOUBLE BRIDGES ROAD BATESBURG, SC 29006

OPERATOR

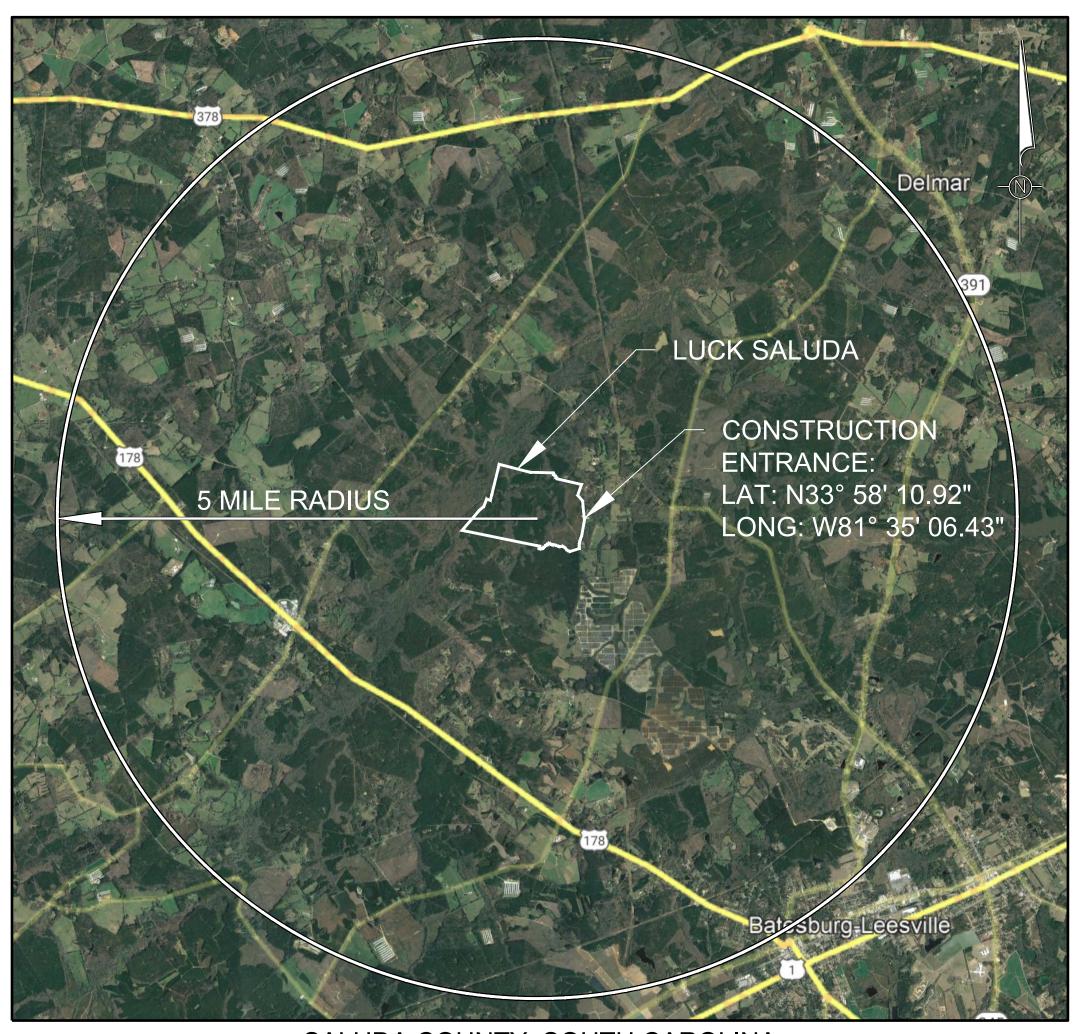
CHUCK STILSON CHUCK.STILSON@LUCKCOMPANIES.COM (804) 784-6300

OWNER

LUCK STONE CORPORATION 515 STONE MILL DRIVE (PO BOX 29682) RICHMOND, VA 23242



AUGUST 2023



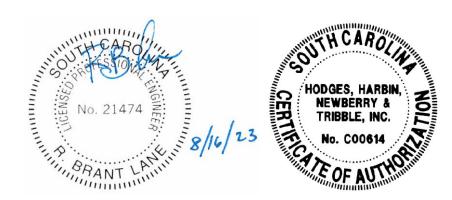
SALUDA COUNTY, SOUTH CAROLINA PROJECT SITE LOCATION



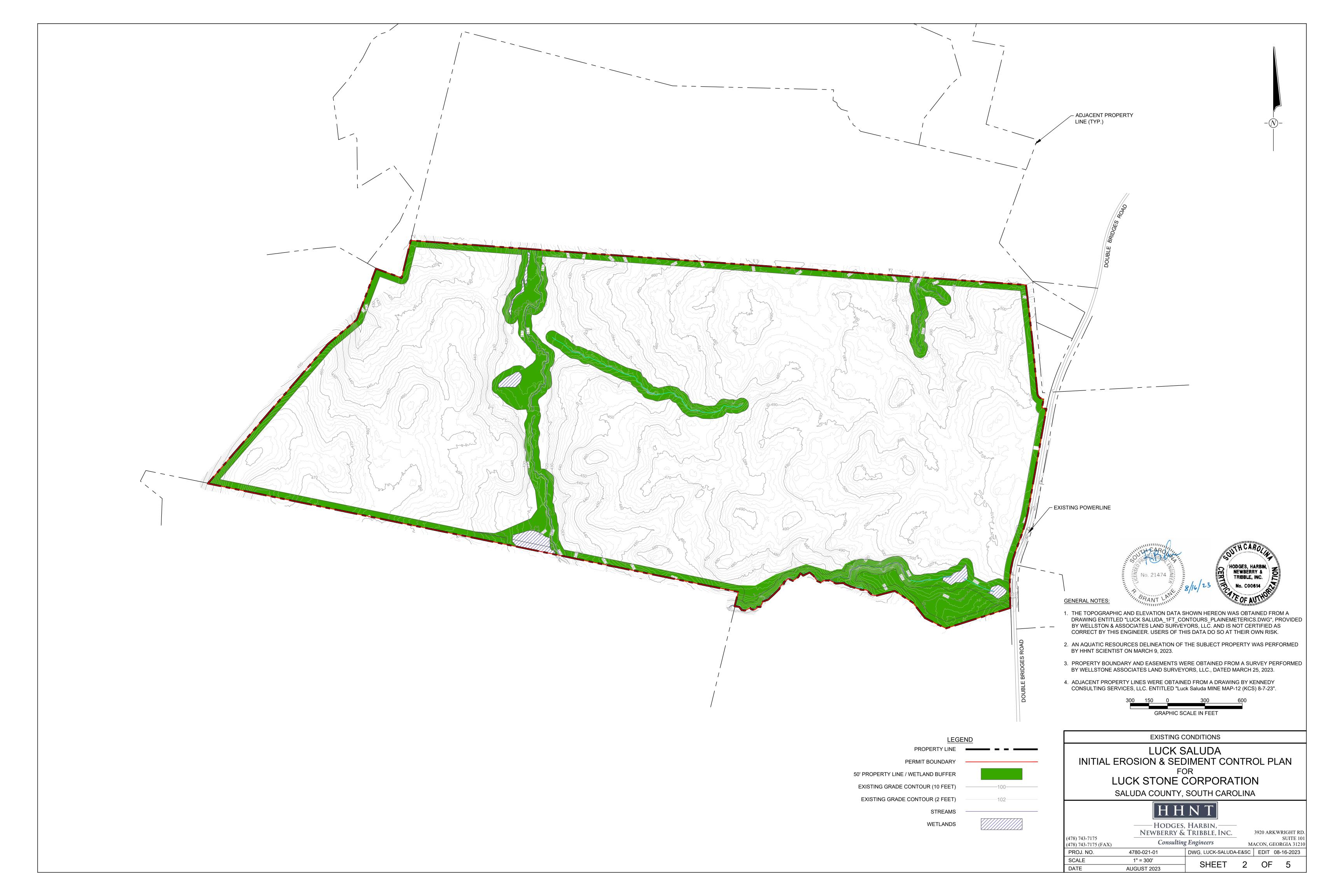
3920 ARKWRIGHT ROAD, SUITE 101 - MACON, GEORGIA 31210 PHONE: (478) 743-7175 FAX: (478) 743-1703

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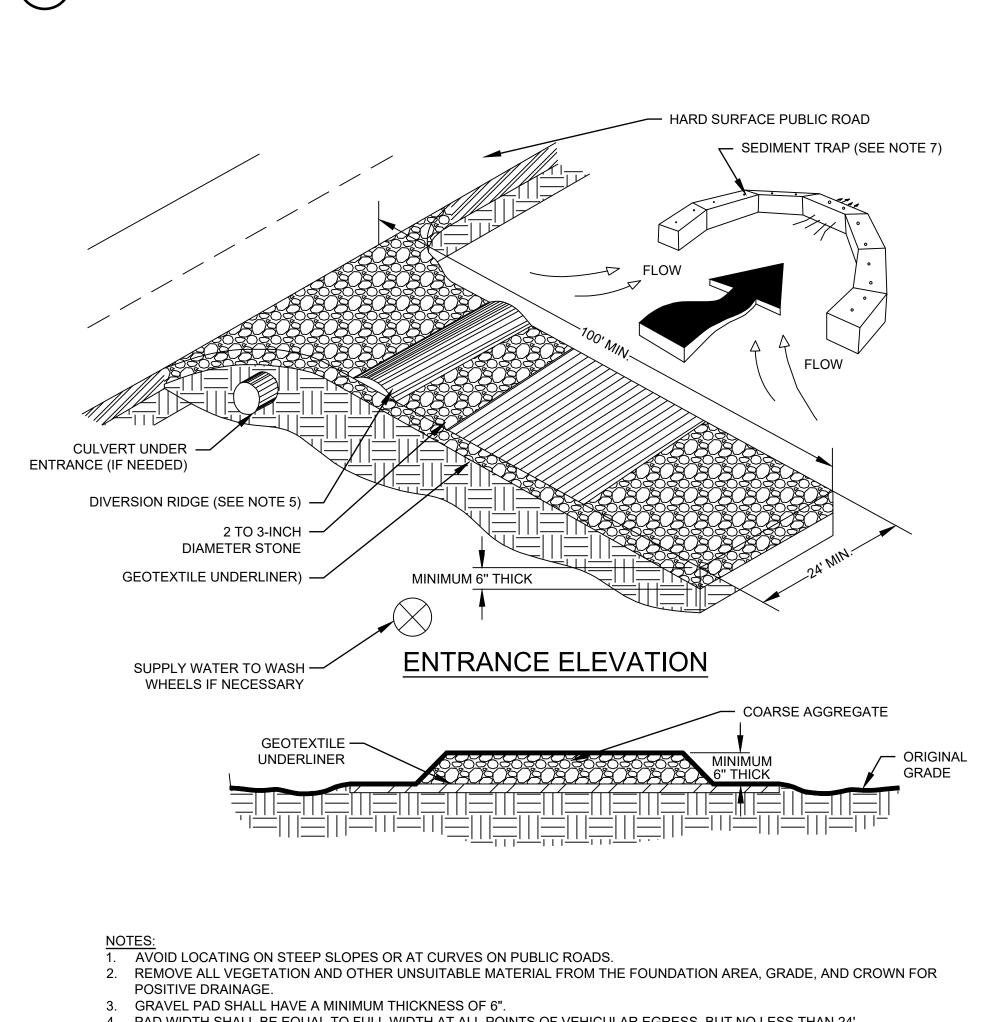
<u>SHEET NO</u> .	DESCRIPTION
1	TITLE SHEET
2	EXISTING CONDITIONS
3	INITIAL EROSION AND SEDIMENT CONTROL PLAN
4-5	MISCELLANEOUS DETAILS



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	REVISION:	DATE:			
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SHEET 1					





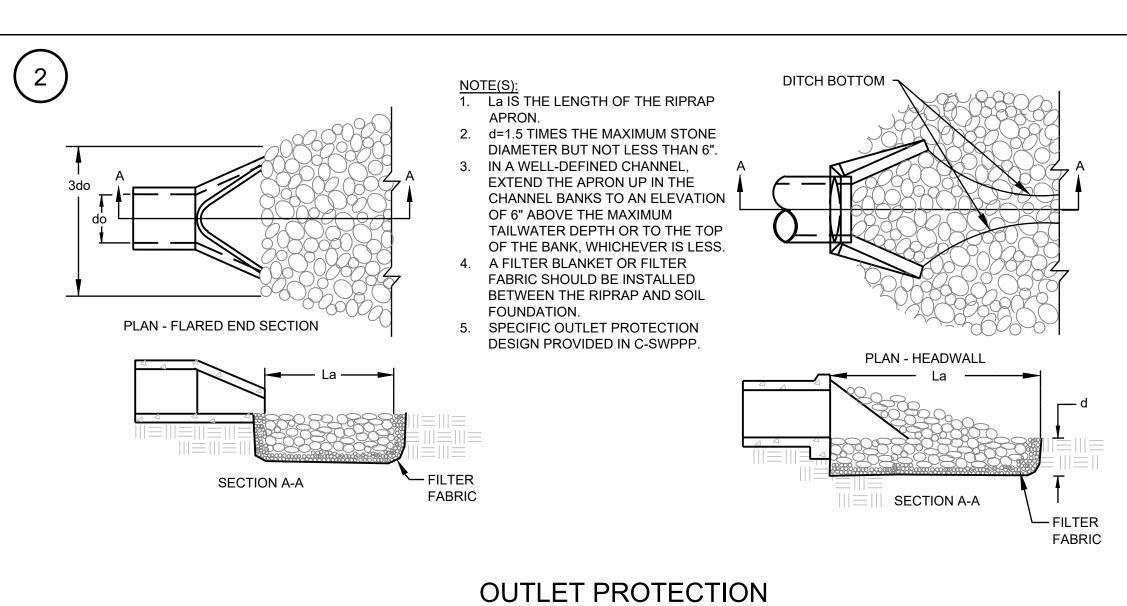


- 4. PAD WIDTH SHALL BE EQUAL TO FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 24'. 5. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
- 6. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
- 7. WHEN WASHING IS REQUIRED, 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.

- 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: N.T.S.



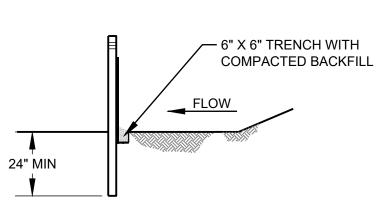
SCALE: N.T.S.

24" MIN 24" MIN

1. THE HEIGHT OF THE SILT FENCE SHALL NOT EXCEED 36". 2. FABRIC SHALL BE REINFORCED WITH WIRE FENCE BACKING AND 12" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH.

MAINTENANCE DURING CONSTRUCTION:

- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE SILT FENCE. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT
- CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED. 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 FABRIC WITH WIRE FENCE BACKING

- FILTER FABRIC IN

SHEET #34

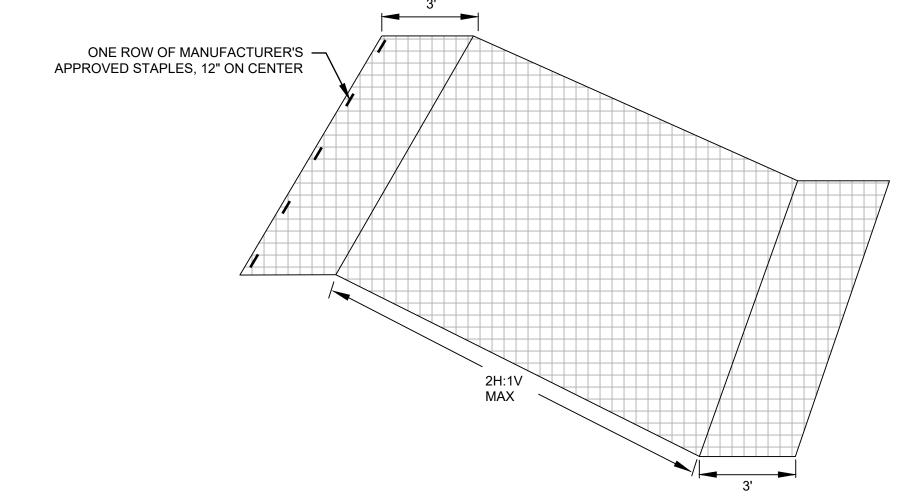
ACCORDANCE WITH

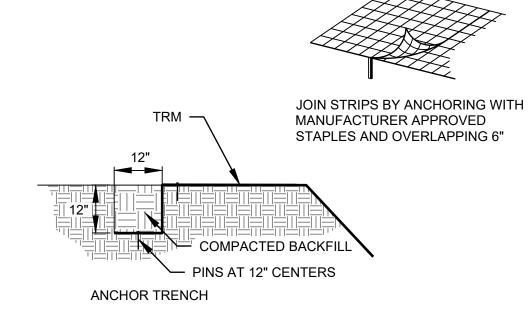
SCDOT APPROVAL

REINFORCED SILT FENCE

SCALE: N.T.S.

ONE ROW OF MANUFACTURER'S —





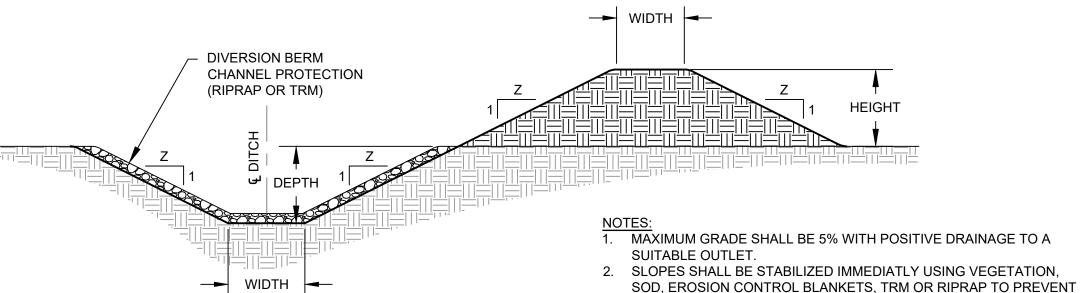
- 1. INSTALL SEED PRIOR TO PLACEMENT OF MATTING. 2. INSTALL DOWNSTREAM OR DOWNWIND MAT FIRST AND INSTALL NEXT MAT
- OVER THE LEADING EDGE AND OVERLAP 6 INCHES.
- 3. INSTALL ALL MATS IN ACCORDANCE WITH THE MANUFACTURER'S
- SPECIFICATIONS. 4. IF 3' RUNOUT AT TOP OF SLOPE IS NOT PROVIDED FOR EXCELSIOR
- 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.

- 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: N.T.S.





1. MAXIMUM GRADE SHALL BE 5% WITH POSITIVE DRAINAGE TO A 2. SLOPES SHALL BE STABILIZED IMMEDIATLY USING VEGETATION,

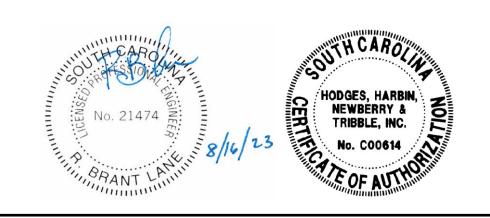
3. SPECIFIC DIVERSION BERM CHANNEL PROTECTION DESIGN TO BE PERFORMED AT TIME OF CONSTRUCTION.

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'

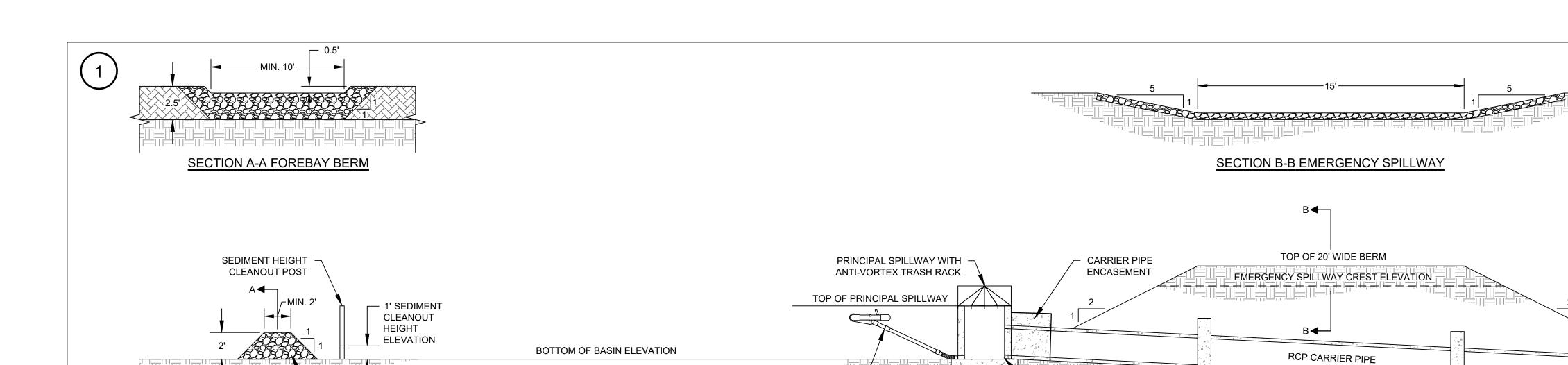


MISCELLANEOUS DETAILS LUCK SALUDA **INITIAL EROSION & SEDIMENT CONTROL PLAN**

LUCK STONE CORPORATION SALUDA COUNTY, SOUTH CAROLINA



NEWBERRY & TRIBBLE, INC. 3920 ARKWRIGHT RD. (478) 743-7175 SUITE 101 Consulting Engineers (478) 743-7175 (FAX) MACON, GEORGIA 31210 PROJ. NO. 4780-021-01 DWG. LUCK-SALUDA-E&SC | EDIT 08-16-2023 SCALE AS SHOWN SHEET OF DATE AUGUST 2023



SURFACE DEWATERING

SKIMMER

SEDIMENT BASIN DATA

- FOREBAY BERM

	POND #1	POND #2	POND #3	POND #4	POND #5	POND #6	POND #7	POND #8
BOTTOM OF BASIN ELEVATION (FT)	428.00	452.00	484.00	482.00	424.00	426.00	418.00	415.00
SEDIMENT CLEANOUT HEIGHT ELEVATION (FT)	429.00	453.00	485.00	483.00	425.00	427.00	419.00	416.00
TOP OF FOREBAY BERM ELEVATION (FT)	430.00	454.00	486.00	484.00	426.00	428.00	420.00	417.00
SEDIMENT STORAGE VOLUME REQUIRED @ 3,600 CF / AC (CF)	106,200	107,424	96,516	99,684	102,348	105,840	38,412	41,292
SEDIMENT STORAGE @ RISER CREST ELEVATION (CF)	258,402	266,057	214,934	212,283	269,313	288,977	106,272	108,091
SEDIMENT STORAGE VOLUME REQUIRED WITHIN FOREBAY (CF)	21,240	21,485	19,303	19,937	20,470	21,168	7,682	8,258
SEDIMENT STORAGE @ FOREBAY BERM HEIGHT (CF)	28,131	29,240	23,546	26,325	33,688	26,633	13,050	17,149
TOP OF PRINCIPAL SPILLWAY ELEVATION (FT)	432.00	456.00	488.00	486.00	428.00	430.00	421.75	418.75
10YR, 24-HOUR STORM EVENT ELEVATION (FT)	432.50	456.48	488.54	486.47	428.39	430.50	421.97	418.99
25YR, 24-HOUR STORM EVENT ELEVATION (FT)	433.14	457.10	489.22	487.10	428.91	431.12	422.33	419.38
EMERGENCY SPILLWAY CREST WIDTH (5:1 SIDE SLOPES) (FT)	15'	15'	15'	15'	15'	15'	15'	15'
EMERGENCY SPILLWAY CREST ELEVATION (FT)	433.50	457.50	489.60	487.50	429.50	431.50	423.00	420.00
100YR, 24-HOUR STORM EVENT ELEVATION (FT)	434.32	458.29	490.42	488.38	430.11	432.34	423.21	420.28
TOP OF BERM ELEVATION (FT)	435.00	459.00	491.00	489.00	431.00	433.00	424.00	421.00

<u>NOTES:</u> 1. SEDIMENT I

1. SEDIMENT BASIN'S SIDE SLOPES SHALL BE SEEDED AND, WHEN NECESSARY, STABILIZED WITH VEGETATION OR SYNTHETIC MATTING

CARRIER PIPE INVERT ELEVATION (SAME AS

BOTTOM OF BASIN

ANIT-FLOTATION

CONCRETE BASE

12" GRAVEL BEDDING

ELEVATION)

- 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.

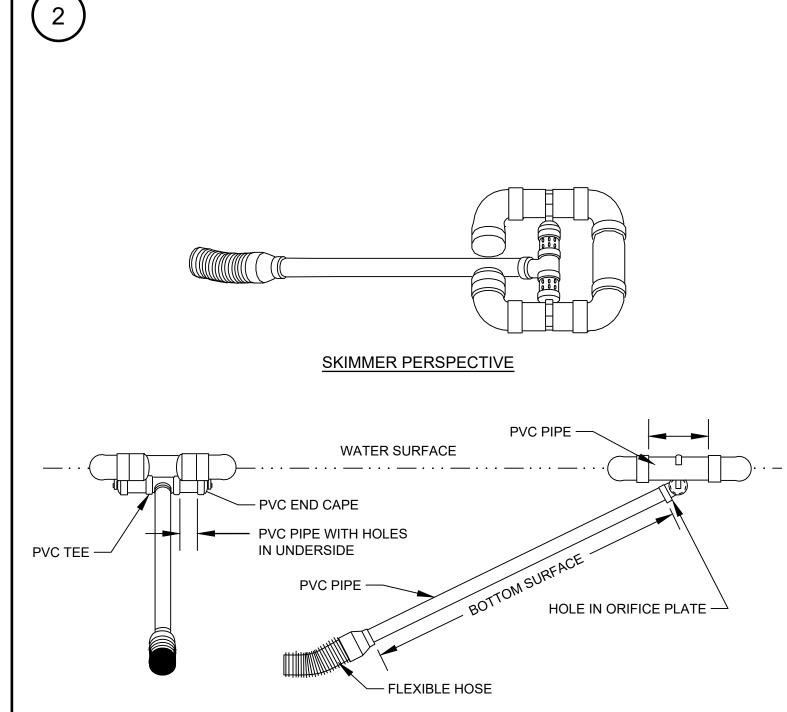
MAINTAINENCE DURING CONSTRUCTION:

- 12" THICK ANTI-SEEP COLLAR

- 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 RECOMMENCED, 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 IN REACHED.



SKIMMER FRONTAL SECTION VIEW SKIMMER SIDE SECTION VIEW

NOTE:

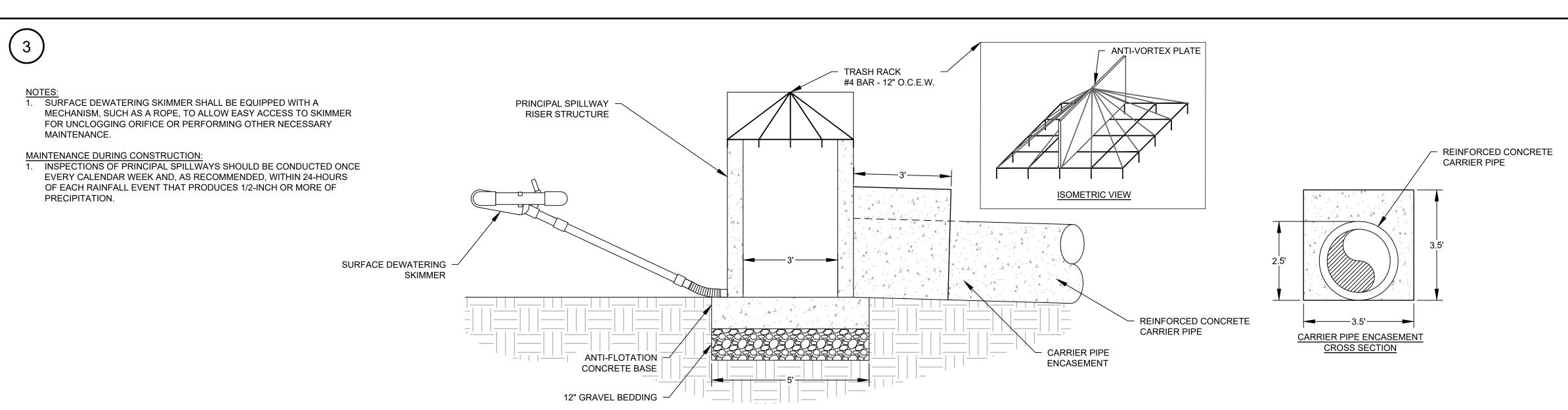
1. SKIMMER CONFIGURATION IS TYPICAL. SEE TABLE ON DETAIL 3 FOR SIZING DETAILS.

SURFACE DEWATERING SKIMMER

SCALE: N.T.S.

PROPOSED SEDIMENT BASINS

SCALE: 1" = 5'



PRINCIPAL SPILLWAY CONCRETE STRUCTURE POND #1 | POND #2 | POND #3 | POND #4 | POND #5 | POND #6 | POND #7 | POND #8 3' x 3' 3' x 3' 3' x 3' 3' x 3' SIZE (6" WALL THICKNESS) (FT) 3' x 3' 3' x 3' 3' x 3' 3' x 3' HEIGHT (FT) 4.00 4.00 4.00 4.00 3.75 4.00 4.00 3.75 484.00 INVERT ELEVATION (BOTTOM OF STRUCTURE / TOP OF BASE) (FT) 428.00 452.00 482.00 424.00 426.00 418.00 415.00 TOP OF PRINCIPAL SPILLWAY ELEVATION (FT) 432.00 456.00 488.00 486.00 428.00 430.00 421.75 418.75 ANTI-FLOTATION CONCRETE BASE DIMENSIONS (L x W x H) (FT) 5' x 5' x 1' | 5' x 5' x 1' | 5' x 5' x 1' SURFACE DEWATERING SKIMMER (NUMBER - DIAMETER) 1 - 6" 1 - 6" 1 - 6" 1 - 6" 1 - 6" 1 - 6" 1 - 5" 1 - 5" 428.00 424.00 418.00 415.00 INVERT ELEVATION FOR SURFACE DEWATERING SKIMMER (FT.) 452.00 484.00 482.00 426.00

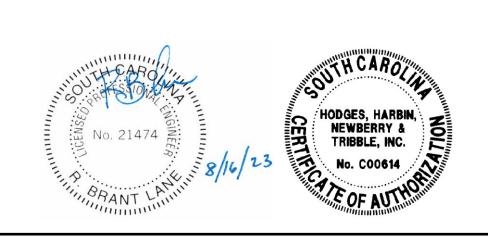
SURFACE DEWATERING SKIMMER SIZE IS BASED ON FAIRCLOTH SKIMMERS. ALTERNATIVE SKIMMERS WITH EQUIVALENT

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 24" 24" 24" DIAMETER (IN) 24" 24" 24" 24" 24" LENGTH (FT) 68' 64' 118' 68' 56' 80' 53' 50' SLOPE (%) 7.14% 20.00% 7.55% 14.71% 12.50% 10.17% 14.71% 6.00% INLET INVERT ELEVATION (FT) 428.00 424.00 426.00 418.00 452.00 484.00 482.00 415.00 OUTLET INVERT ELEVATION (FT) 444.00 472.00 472.00 420.00 410.00 414.00 412.00 NO. & SIZE OF ANTI-SEEP COLLARS (12" WALL THICKNESS) (FT) 2 - 6.5 x 6.5 | 2 - 6.0 x 6.0 | 2 - 5.5 x 5.5 | 2 - 6.5 x 6.5 | 2 - 5.5 x 5.5 | 3 - 8.0 x 8.0 | 2 - 5.5 x 5.5 | 2 - 5.5 x 5.5 CARRIER PIPE ENCASEMENT (L x W x H) (FT) 3 x 3.5 x 3.5 | 3 x 3.5 x 3.5

PRINCIPAL SPILLWAY

SCALE: 1" = 2'



LUCK SALUDA INITIAL EROSION & SEDIMENT CONTROL PLAN FOR

LUCK STONE CORPORATION SALUDA COUNTY, SOUTH CAROLINA

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(470) 742 7175	——HODGES, HARBIN, ——NEWBERRY & TRIBBLE, INC.			3920 ARKWRIGHT RE		
(478) 743-7175 (478) 743-7175 (FAX)	Consulting	SUITE MACON, GEORGIA 31			-	
PROJ. NO.	4780-021-01	DWG. LUCK-SALUDA-	E&SC	EDIT	08-16-202	3
SCALE	AS SHOWN	SHEET	5	OF	5	
DATE	AUGUST 2023	SHEET	5	OF	5	