

SCALE: 1" = 40'

SECTION A-A

STANDARD SLIP RESISTANT

MANHOLE STEP DETAIL

SCALE : NONE

DAM EMBANKMENT CONSTRUCTION NOTES

TOP/CONCRETE@ PIPE SPRING LINE

CLASS "3" RCP W/

– #6 @ 18" O.C.

3" MIN.

CLEAR

ALUMINUM NON-CLIMBABLE

DRAWING FOR APPROVAL.

HANDRAIL 36" MIN. HEIGHT WITH 1"

DIA. RAILINGS AT 5" O.C. MAX. - 1

CONTRACTOR TO SUBMIT SHOP

1 1/2" DIA. BOTTOM RAIL WITH 2"

CLEARANCE TO TOP OF WALL

4" DIA. X 12" DEEP SLEEVE W/

- PROPOSED HEADWALL

CLEAN WASHED SAND

NON-SHRINK GROUT

6" O WEEPHOLES ON

EACH SIDE OF WING

6" DIP DRAIN PIPE OUTLETS

VARMINT GUARD DETAIL).

THROUGH WING WALL (SEE

1/2" DIA. END POST AT 5' O.C. -

3000 PSI CONCRETE WITH

GREATER SOIL COHESION

12" MIN.

COMPACTED TO

98 PROCTOR

3" MIN. CLEAR

CONCRETE CRADLE SHALL BE

TRENGTH AVERAGE SLUMP

SHALL BE 7-INCHES TO ASSURE

FLOWABILITY OF MATERIAL. THE

PLACED MONOLITHICALLY, SHALL

PRINCIPAL SPILLWAY PIPE, SHALL

BE CONSOLIDATED PRIMARILY BY

FINISHED "ROUGH" SO AS TO

INTERNAL VIBRATION AND SHALL BE

ACHIEVE A MORE ADEQUATE BOND

* THIS CRADLE TO BE PROVIDED AT AND

SAND FILTER ASSEMBLY STILL REQUIRED.

ENTIRE LENGTH OF PIPE

CENTERED ON EVERY JOINT FOR THE

BETWEEN THE CONCRETE IN THE

CRADLE AND THE FIRST LIFT OF

CONCRETE CRADLE SHALL BE

BE WORKED WITH HAND EQUIPMENT UP UNDER THE

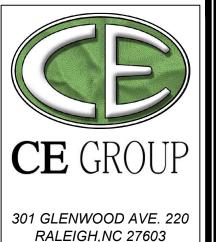
STRUCTURAL FILL.

UNCONFINED COMPRESSIVE

FLOWABLE FILL 100-200 PSI 28-DAY

VERY ROUGH TOP FINISH FOR-

LOCKING O-RINGS



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ONSTRUCTI POND

ORTH

I" = 40'

JANUARY 19, 2022 BCS JRF roject No.

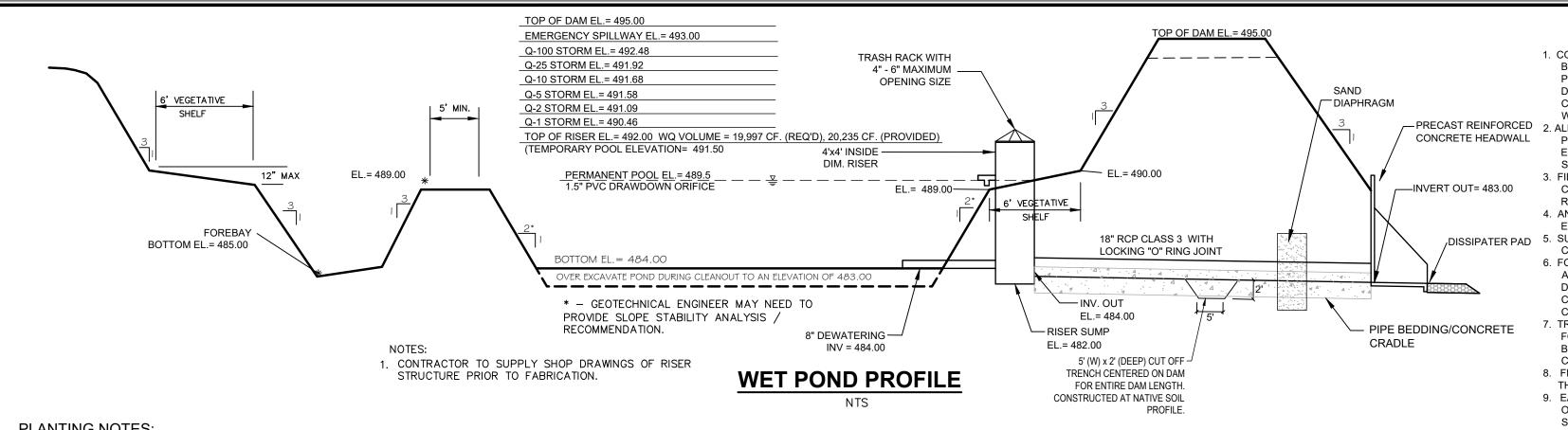
215-018 omputer Dwg. Name 5-018_c802_pond a2 plan

neet No:

FINAL DESIGN

EMERGENCY SPILLWAY

PLUNGE POOL POND A27 INV. OUT= 493.00 ✓ RIP-RAP: CL: E POOL LENGTH: 14' POOL WIDTH: 7.8' FILTER FABRIC LINER SEE DETAIL SHEET C752 72 LF/18" HDPE W/-



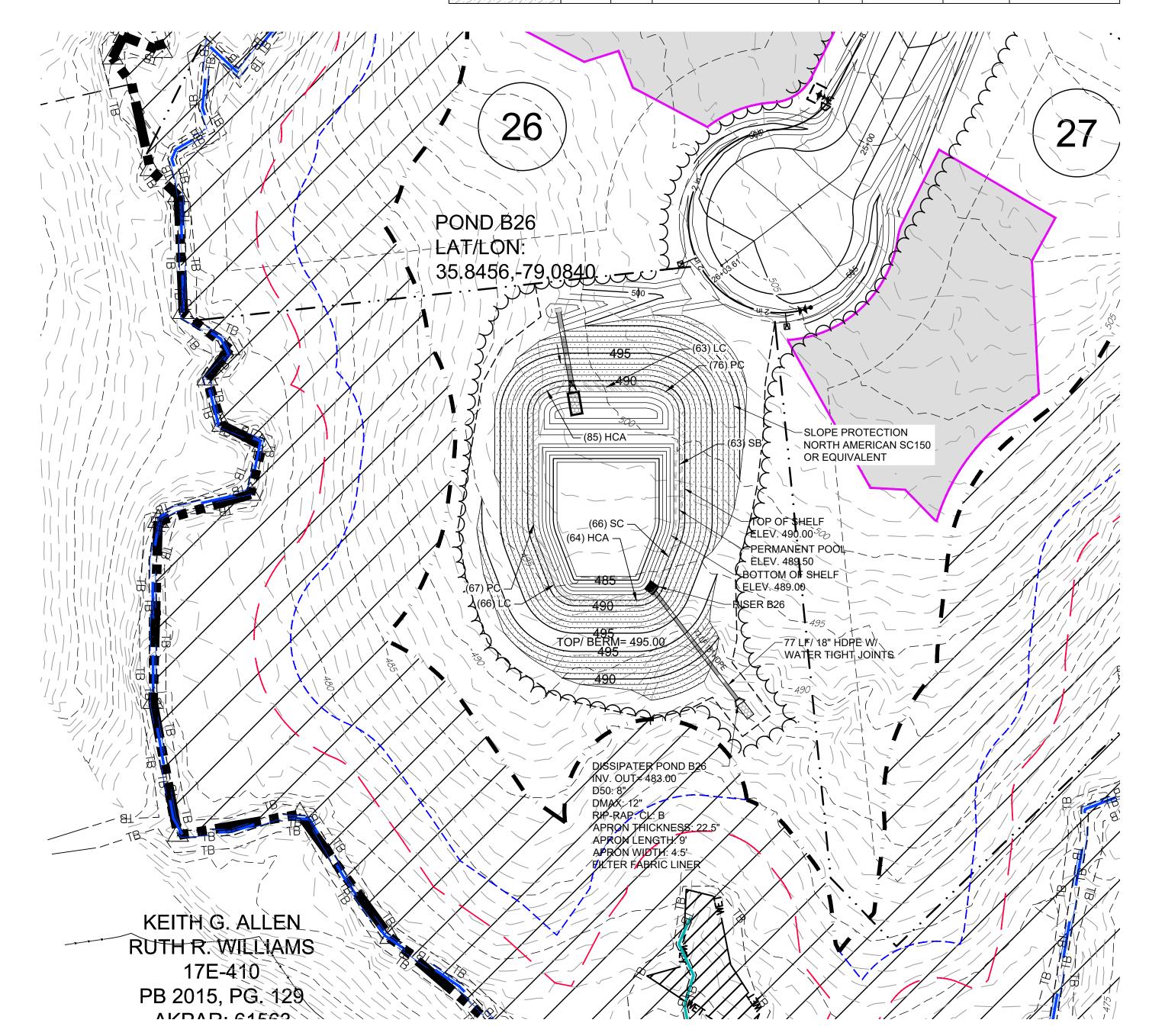
PLANTING NOTES

- 1.) LANDSCAPE CONTRACTOR SHALL PROVIDE PLANT MATERIAL FROM LOCAL SOURCE TO ENSURE SURVIVABILITY. CONTRACTOR TO PROVIDE SOURCE OF PLANT MATERIAL AND LOCATION FOR APPROVAL PRIOR TO INSTALLATION OF MATERIAL.
- 2.) PRIOR TO INSTALLING FINAL PLANTINGS, AUGMENT WITH SOIL AMENDMENTS AND TILLING TO PROVIDE ADEQUATE BASE FOR PLANT VITALITY.

LOCAL WETLAND NURSERY MELLOW MARSH FARM NURSERY - SILER CITY, NC

A MINIMUM TWO-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR PLANT SURVIVAL AND REPLACEMENT. AT THE END OF THE FIRST YEAR AND AGAIN AT THE END OF THE 2ND YEAR ALL PLANTS THAT DO NOT SURVIVE MUST BE REPLACED.

| PLANT SCHEDULE | | | | | | | |
|----------------|------|-----|---|------|-----------|----------|---------------|
| GROUND COVERS | CODE | QTY | BOTANICAL / COMMON NAME | SIZE | CONTAINER | SPACING | REMARKS |
| | HCA | 149 | Hibiscus coccineus 'Alba' White Rosemallow | 4" | Pot | 24" o.c. | SHALLOW LAND |
| | LC | 129 | Lobelia cardinalis Cardinal Flower | 4" | Pot | 24" o.c. | SHALLOW LAND |
| | PC | 143 | Pontederia cordata Pickerel Weed | 4" | Pot | 24" o.c. | SHALLOW WATER |
| | SB | 63 | Saccharum baldwinii Narrow Plumegrass | 4" | Pot | 24" o.c. | SHALLOW LAND |
| | sc | 66 | Saururus cernuus Lizard's Tail | 4" | Pot | 24" o.c. | SHALLOW WATER |



DAM EMBANKMENT CONSTRUCTION NOTES

1. CONTROLLED FILL, AS SPECIFIED BY THE GEOTECHNICAL ENGINEER, IN THE DAM EMBANKMENT SHALL BE PLACED IN 6-INCH LOOSE LAYERS (3-INC LOOSE LAYERS WITHIN 3-FEET OF EITHER SIDE OF THE PRINCIPAL SPILLWAY PIPE TO A DEPTH OF 2-FEET OVER THE PIPE) AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698

-PRECAST REINFORCED 2. ALL VISIBLE ORGANIC DEBRIS SUCH AS ROOTS AND LIMBS SHALL BE REMOVED FROM THE FILL MATERIAL CONCRETE CRADLE SHALL BE PRIOR TO COMPACTION TO THE REQUIRED DENSITY. SOILS WITH ORGANIC MATTER CONTENT PLACED MONOLITHICALLY. EXCEEDING 5% BY WEIGHT SHALL NOT BE USED. STONES GREATER THAN 3-INCH (IN ANY DIRECTION) SHALL BE WORKED WITH HAND SHALL BE REMOVED FROM THE FILL PRIOR TO COMPACTION. EQUIPMENT UP UNDER THE 3. FILL MATERIAL PLACED AT DENSITIES LOWER THAN SPECIFIED MINIMUM DENSITIES OR AT MOISTURE PRINCIPAL SPILLWAY PIPE.

CONTENTS OUTSIDE THE SPECIFIED RANGES OR OTHERWISE NOT CONFORMING TO SPECIFIED REQUIREMENTS SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS. 4. ANY FILL LAYER THAT IS SMOOTH DRUM ROLLED TO REDUCE MOISTURE PENETRATION DURING A STORM EVENT SHALL BE PROPERLY SCARIFIED PRIOR TO THE PLACEMENT OF THE NEXT SOIL LIFT. DISSIPATER PAD 5. SURFACE WATER AND STREAM FLOW SHALL BE CONTINUOUSLY CONTROLLED THROUGHOUT

CONSTRUCTION AND THE PLACEMENT OF CONTROLLED FILL. 6. FOUNDATION AREAS MAY REQUIRE UNDERCUTTING OF COMPRESSIBLE AND/OR UNSUITABLE SOILS IN ADDITION TO THAT INDICATED ON THE PLANS. ALL SUCH UNDERCUTTING SHALL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND SHALL BE MONITORED AND DOCUMENTED. IN NO CASE SHALL THERE BE AN ATTEMPT TO STABILIZE ANY PORTIONS OF THE FOUNDATION SOILS WITH

CRUSHED STONE. TREATMENT OF SEEPAGE AREAS, SUBGRADE PREPARATION, FOUNDATION DEWATERING AND ROCK FOUNDATION PREPARATION (I.E., TREATMENT WITH SLUSH GROUTING, DENTAL CONCRETE, ETC.) MAY BE REQUIRED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER. ALL SUCH ACTIVITIES SHALL BE CLOSELY MONITORED AND DOCUMENTED BY THE GEOTECHNICAL ENGINEER. 8. FILL ADJACENT TO THE RISER AND PRINCIPAL SPILLWAY PIPE SHALL BE PLACED SO THAT LIFTS ARE AT

THE SAME LEVEL ON BOTH SIDES OF THE STRUCTURES. 9. EARTHWORK COMPACTION WITHIN 3-FEET OF ANY STRUCTURES SHALL BE ACCOMPLISHED BY MEANS OF HAND TAMPERS, MANUALLY DIRECTED POWER TAMPERS OR PLATE COMPACTORS OR MINIATURE SELF-PROPELLED ROLLERS.

10. COMPACTION BY MEANS OF DROP WEIGHTS FROM A CRANE OR HOIST SHALL NOT BE PERMITTED. 11. HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO PASS OVER CAST-IN-PLACE STRUCTURES UNTIL ADEQUATE CURING TIME HAS ELAPSED.

12. TO RE-ESTABLISH VEGETATION AFTER CONSTRUCTION. A 2- TO 3-INCH LAYER OF TOPSOIL SHALL BE PLACED ON THE DISTURBED EMBANKMENT SURFACE AND THE AREA SEEDED AND MULCHED OR

NOTES:

CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR OUTLET STRUCTURE AND TRASH RACK FOR APPROVAL.

DAM EMBANKMENT IS TO BE SEEDED IMMEDIATELY AFTER DAM CONSTRUCTION IS COMPLETE.

STORMWATER MANAGEMENT STRUCTURE IS TO BE UTILIZED AS A TEMPORARY EROSION CONTROL DEVICE INITIALLY. ONCE CONSTRUCTION IS COMPLETED AND UPSTREAM SURFACES HAVE BEEN PERMANENTLY STABILIZED. CONTRACTOR IS TO REMOVE ALL SEDIMENT FROM BASIN AND CONVERT TO PERMANENT WATER QUALITY STRUCTURE. THIS INCLUDES INSTALLING THE PROPOSED PLANTINGS ALONG THE LITTORAL SHELF. DRAWDOWN PIPE IS NOT TO BE INSTALLED UNTIL ALL UPSTREAM SURFACES HAVE BEEN PERMANENTLY

SLIP RESISTANT CLEATS

_ CORROSION RESISTANT

MATERIAL (RUBBER, PLASTIC)

ELEVATION

STANDARD SLIP RESISTANT

MANHOLE STEP DETAIL

SCALE : NONE

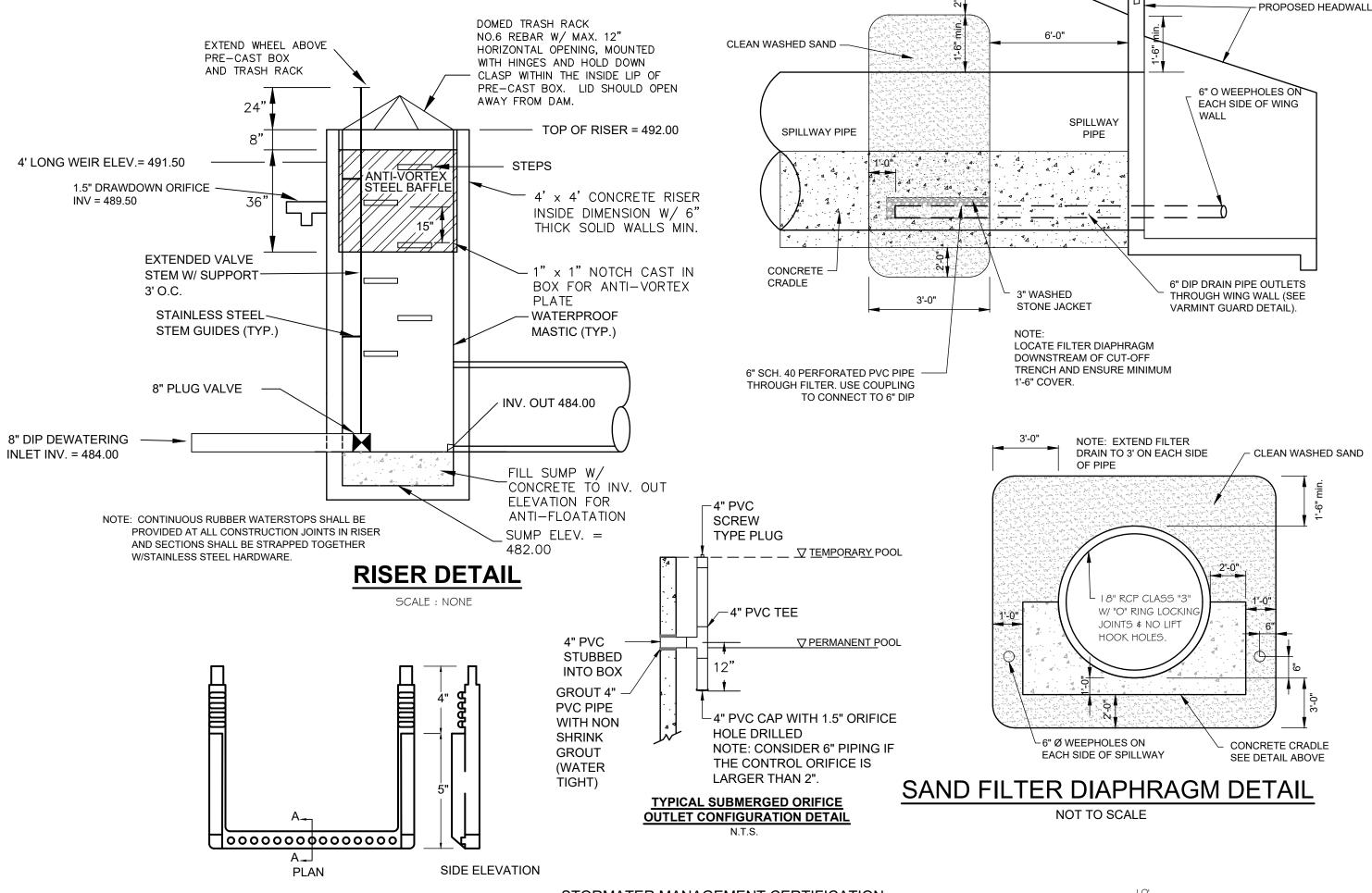
SECTION A-A

#3 OR #4 REBAR \

CONTACT ENGINEER FOR APPROVAL TO CONVERT

NOTE TO CONTRACTOR:

INTEGRATED ANTI-VORTEX PLATE IN THE TRASH RACK IS AN ACCEPTABLE ALTERNATIVE TO THE



STORMATER MANAGEMENT CERTIFICATION

I Jeff Foster certify that the stormwater management facilities and practices will control and treat the runoff from the 1 year 1-hour storm event for the total drainage area of the structure, that the designs and plans are sufficient to comply with the applicable standards and policies found in the NC DEQ Stormwater BMP Design Manual, and that the designs and plans ensure compliance with the County's Stormwater Ordinance.

SCALE: 1" = 40'



ELEV.= 493.00

EMERGENCY SPILLWAY

FINAL DESIGN

TOP/CONCRETE @ PIPE SPRING LINI - #6 @ 10" O.C. PIPE BEDDING/CONCRETE CRADLE DETAIL

CLASS "3" RCP W/

└ #6 @ 18" O.C.

3" MIN

ALUMINUM NON-CLIMBABLE

DRAWING FOR APPROVAL.

HANDRAIL 36" MIN. HEIGHT WITH 1"

DIA. RAILINGS AT 5" O.C. MAX. - 1

CONTRACTOR TO SUBMIT SHOP

1/2" DIA. END POST AT 5' O.C. -

1 1/2" DIA. BOTTOM RAIL WITH 2"

CLEARANCE TO TOP OF WALL

4" DIA. X 12" DEEP SLEEVE W/

NON-SHRINK GROUT

3000 PSI CONCRETE WITH

GREATER SOIL COHESION

CLEAR-►

12" MIN.

COMPACTED TO

98 PROCTOR

(TYP.)

BOLT AND NUT INSTALLED

HORIZONTALLY THROUGH

THE CENTER OF THE PIPE.

- CENTRALLY LOCATE IN

VARMINT GUARD DETAIL

SOIL COVER OVER FILTER

CONCRETE WALL

12" MIN. COMPACTED

TO 98 PROCTOR

VERY ROUGH TOP FINISH FOR-

3" MIN. CLEAR

NOT TO SCALE

CONCRETE CRADLE SHALL BE

FLOWABLE FILL 100-200 PSI

COMPRESSIVE STRENGTH

AVERAGE SLUMP SHALL BE

SHALL BE CONSOLIDATED

PRIMARILY BY INTERNAL

VIBRATION AND SHALL BE FINISHED "ROUGH" SO AS TO

LIFT OF STRUCTURAL FILL.

ACHIEVE A MORE ADEQUATE

BOND BETWEEN THE CONCRETE

* THIS CRADLE TO BE PROVIDED AT AND

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ENTIRE LENGTH OF PIPE

6"Ø DIP IN WALL

CENTERED ON EVERY JOINT FOR THE

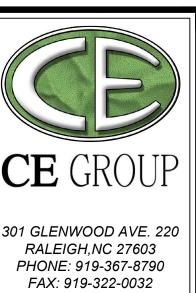
IN THE CRADLE AND THE FIRST

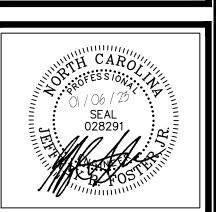
FLOWABILITY OF MATERIAL. THE

28-DAY UNCONFINED

7-INCHES TO ASSURE

LOCKING O-RINGS





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ORTH **B**26 ONSTRUCTION CHAPEL C POND

JANUARY 19, 2022 I" = 40' BCS JRF roject No. 215-018 omputer Dwg. Name 15-018_c803_pond b1 plan

heet No:

C803