

# LAKE MARBLEHEAD DAM REPAIRS

STATE DAM ID: FORSY-033

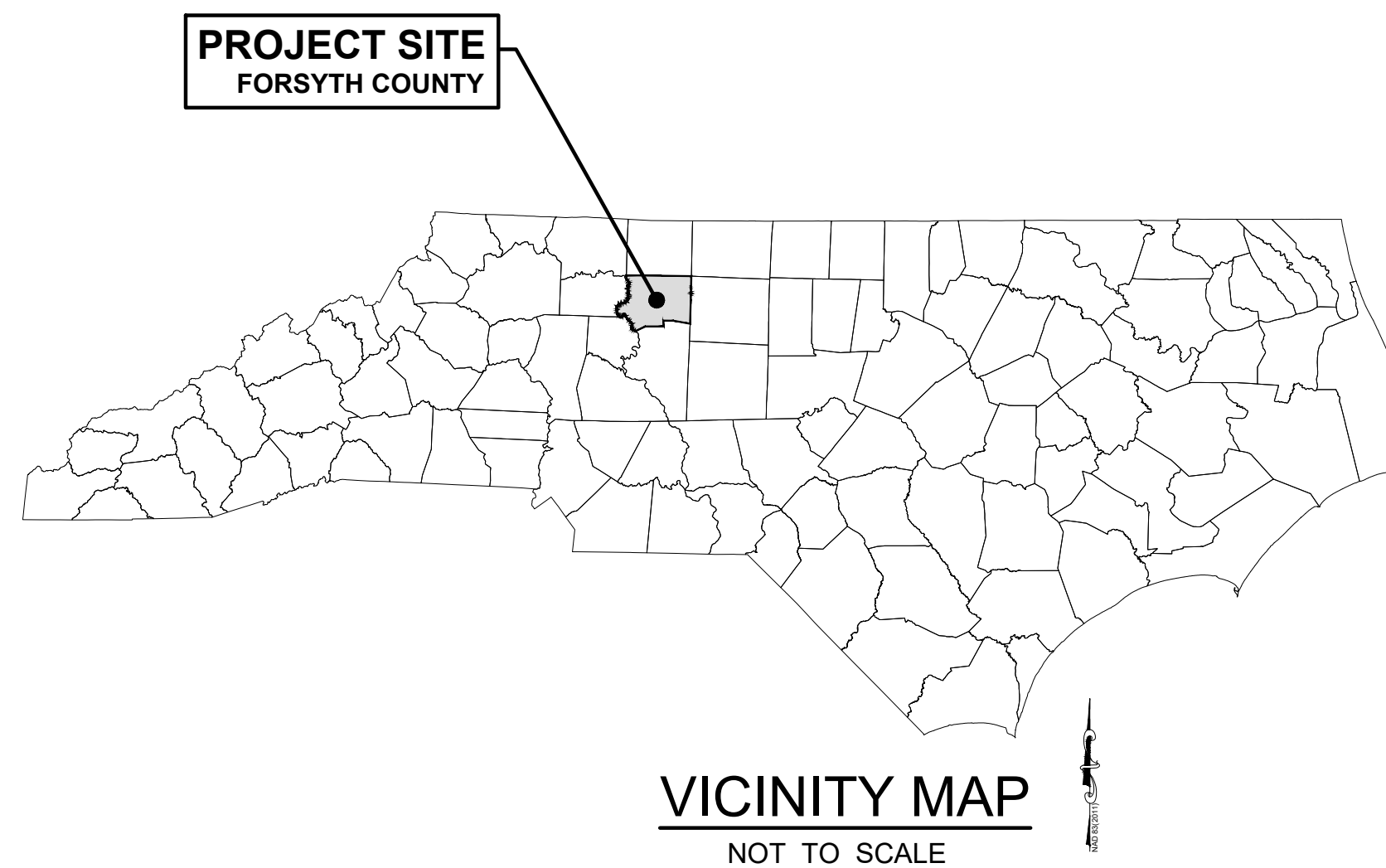
NID ID: NC02734

SIZE: SMALL

HAZARD: LOW

# TOWN OF LEWISVILLE

# LEWISVILLE, NC - FORSYTH COUNTY



OWNER:

# TOWN OF LEWISVILLE

6510 SHALLOWFORD ROAD  
LEWISVILLE, NC 27023

CONTACT:

MS. STACY Y. TOLBERT

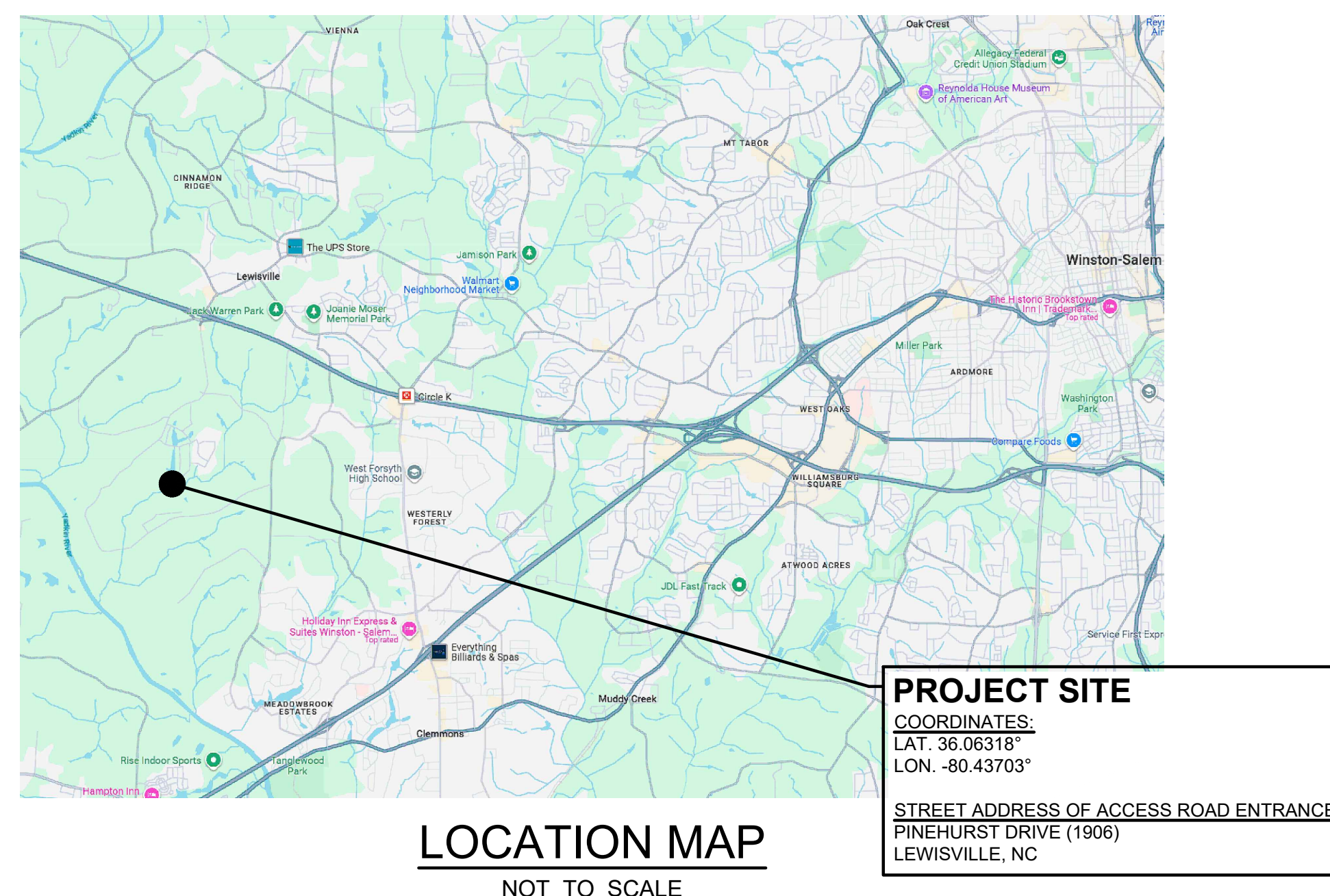
TOWN MANAGER

TOWN OF LEWISVILLE

(336) 945-5558

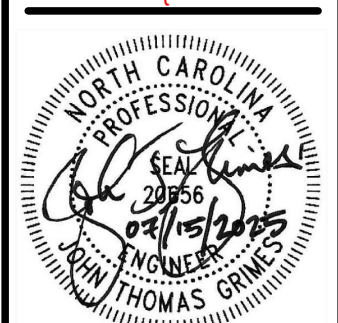
STOLBERT@LEWISVILLENC.NET

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**FINAL DRAWING - ISSUED FOR CONSTRUCTION**

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LICENSE NO. C-2909

LAKE MARBLEHEAD DAM REPAIRS  
TOWN OF LEWISVILLE  
LEWISVILLE, NC - FORSYTH COUNTY  
COVER SHEET

DATE: DECEMBER 2024  
DESIGNED: JTG  
DRAWN: DNH  
JOB NO: 23-150-23-1  
SHEET: C1.0  
OF: 12

STATE DAM ID: FORSY-033 (LOW HAZARD)

COVER SHEET



SYMBOLS AND ABBREVIATIONS

|        |                                  |
|--------|----------------------------------|
| ABC    | AGGREGATE BASE COURSE            |
| ALUM   | ALUMINUM                         |
| AST2   | ALUMINIZED STEEL - TYPE 2        |
| B-B    | BACK TO BACK                     |
| BOA    | BLOW-OFF ASSEMBLY                |
| C&G    | CURB AND GUTTER                  |
| CFS    | CUBIC FEET PER SECOND            |
| CI     | CURB INLET                       |
| CL     | CENTER LINE                      |
| CMP    | CORRUGATED METAL PIPE            |
| CO     | CLEAN OUT                        |
| COM    | COMMUNICATION                    |
| CONC   | CONCRETE                         |
| Ø      | DIAMETER                         |
| DCV    | DOUBLE CHECK VALVE               |
| DDCV   | DOUBLE DETECTOR CHECK VALVE      |
| DI     | DROP INLET                       |
| DIP    | DUCTILE IRON PIPE                |
| EASE   | EASEMENT                         |
| ELEC   | ELECTRIC                         |
| EX     | EXISTING                         |
| FES    | FLARED END SECTION               |
| FH     | FIRE HYDRANT                     |
| FM     | FORCE MAIN                       |
| FT     | FEET                             |
| '      | FEET                             |
| FT/SEC | FEET PER SEC                     |
| GALV   | GALVANIZED                       |
| GV     | GATE VALVE                       |
| HCR    | HANDICAP RAMP                    |
| HDPE   | HIGH DENSITY POLYETHYLENE        |
| ID     | IDENTIFICATION                   |
| "      | INCHES                           |
| L      | LENGTH                           |
| LF     | LINEAR FEET                      |
| MH     | MANHOLE                          |
| NID    | NATIONAL INVENTORY OF DAMS       |
| PAVE   | PAVEMENT                         |
| PE     | FINISHED PAD ELEVATION           |
| PP     | POWER POLE                       |
| PVC    | POLYVINYL CHLORIDE               |
| R      | RADIUS                           |
| R/W    | RIGHT-OF-WAY                     |
| RED    | REDUCER                          |
| RCP    | REINFORCED CONCRETE PIPE         |
| RPZ    | REDUCED PRESSURE ZONE            |
| SS     | SANITARY SEWER / STAINLESS STEEL |
| STA    | STATION                          |
| TDD    | TEMPORARY DIVERSION DITCH        |
| TELE   | TELEPHONE                        |
| TSB    | TEMPORARY SEDIMENT BASIN         |
| TYP    | TYPICAL                          |
| UG     | UNDERGROUND                      |
| W/L    | WATER LINE                       |
| WM     | WATER METER                      |
| YI     | YARD INLET                       |

EROSION CONTROL CONSTRUCTION SEQUENCE

1.

Obtain grading/erosion control plan approval and permit from the North Carolina Department of Environmental Quality (NCDEQ).
2.

Prior to beginning construction, contact the Project Engineer and the Erosion Control Inspector at the NCDEQ Erosion Control Office to establish a pre-construction conference and inspection schedule.

Self Inspection-----Effective October 1, 2010, persons conducting land-disturbing activities, larger must inspect their projects after each phase of the project, and document the inspection in writing on approved forms available form the City of Winston-Salem Inspections office. The phases are as follows:

1.

Installation of perimeter erosion and sediment control measures.

2.

Clearing and Grubbing of existing ground cover.

3.

Completion of any phase of grading of slopes or fills.

4.

Installation of storm drainage facilities.

5.

Completion of construction development.

6.

Establishment of permanent ground cover sufficient to restrain erosion.
3.

Clear site ONLY as necessary to install initial erosion control measures as follows:

a.

Temporary construction entrance/exit

b.

Temporary diversion berms

c.

Temporary silt fencing

Seed embankments and disturbed areas of devices upon completion of construction. See Ground Stabilization Criteria below for more information.
4.

Begin clearing, grubbing, and stripping of site as required. Earthen-material stockpiles, areas dedicated for management of land clearing and demolition debris, construction and domestic waste, and hazardous or toxic waster shall be located at least 50 feet away from storm drain inlets and surface waters.
5.

Begin site grading. Maintain erosion control devices in accordance with the maintenance plan. Install additional erosion control measures as required.
6.

Perform dam rehabilitation work.
7.

Prior to Contractor demobilizing from the site (at approximately 15 days prior to demobilization), the Financially Responsible Party (or their designee) will notify Tamera Eplin (NCDEQ, Land Quality Section, Regional Engineer, 336-776-9800) and the designated Erosion Control Inspector of their anticipated date to leave the site. An on-site inspection will be conducted prior to the leave date by the designated NCDEQ Erosion Control Inspector to make certain all action items have been addressed by the Contractor.
8.

Continue to maintain erosion control measure until vegetative cover has been established over all disturbed areas and site has been stabilized. Remove erosion control measures ONLY after final inspection and approval by Inspector.

EROSION CONTROL MAINTENANCE PLAN

1.

Inspect all sedimentation and erosion control devices for stability and function each week and following each rainfall event.
2.

Remove silt/sediment from temporary devices when accumulated volume has reached 50% capacity.
3.

Remove accumulated silt/sediment from behind temporary sediment fence when depth exceeds approximately 0.5'. Repair and replace silt fence as necessary.
4.

Seed and stabilize temporary diversions berms immediately after construction including "clean" water diversion berms. Re-grade/repair berms as required.
5.

Contractor shall appoint and on-site inspectors and maintain records of inspections in accordance with the provisions of the general NPDES Stormwater discharge permit for construction activities.

TEMPORARY SEEDING PLAN

| Seed Mixture                | Seed Date         | Soil Amendments  | Mulch  | Maintenance  |
|-----------------------------|-------------------|--|--|--|
| Rye (grain)<br>120 lb/acre  | Jan. 1 - May 1    | Follow recommendations soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer   | Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool. | Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage |
| German Millet<br>40 lb/acre | May 1 - Aug. 15   | Follow recommendations soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer   | Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool  | Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage |
| Rye (grain)<br>120 lb/acre  | Aug. 15 - Dec. 31 | Follow recommendations soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer | Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool  | Repair and fertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March                            |

GENERAL NOTES

1.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL UNDERGROUND FEATURES SHOWN ON DRAWINGS (PLANS). ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXERCISING REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND FEATURES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF UNKNOWN FEATURES ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE ILLUSTRATED PLANS.
2.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC, AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, THE CONTRACTOR SHALL REPAIR IMMEDIATELY AS DIRECTED BY THE ENGINEER.
3.

CONTRACTOR SHALL HOLD HARMLESS THE OWNER AND THE ENGINEER FOR DAMAGES, INJURIES OR OTHER ACCIDENTS WHICH OCCUR DURING THESE CONSTRUCTION ACTIVITIES.
4.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE CONSTRUCTION SITE, INCLUDING BUT NOT LIMITED TO: EQUIPMENT, COMPLETED WORK, STAGED MATERIALS, AND SITE ACCESS BY AUTHORIZED AND UNAUTHORIZED PERSONS.
5.

TREES AND EXISTING LANDSCAPING NOT DESIGNATED FOR REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION.
6.

ALL ELEVATIONS ARE IN REFERENCE TO BENCHMARKS UTILIZED BY THE PROJECT SURVEYOR.
7.

CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATION OF ALL ILLUSTRATED CONSTRUCTION ACTIVITIES AT THE JOB SITE.
8.

ALL WORK SHALL BE PERFORMED ACCORDING TO CURRENT OSHA SAFETY REGULATIONS.
9.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT HIS EXPENSE.
10.

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION ADJUSTMENTS OF ANY EXISTING VAULTS (REGARDLESS OF FUNCTION), METER BOXES, FIRE HYDRANTS, CLEAN OUTS, MANHOLES ETC., TO MATCH FINISHED GRADES AND SITE PLAN. ALL SUCH WORK SHALL BE COORDINATED WITH THE ENGINEER.
11.

CONTRACTOR SHALL UTILIZE SIGNS, BARRICADES, FLAGMEN, OR GUARDS AS REQUIRED TO ENSURE THE SAFETY OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC DURING ALL CONSTRUCTION ACTIVITIES.
12.

THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER, THE OWNER, AND ADJACENT PROPERTY OWNERS AS REQUIRED FOR WORK OUTSIDE OF PROPERTY LINES.
13.

UNDER ABSOLUTELY NO CIRCUMSTANCES SHALL ANY UNMANNED EXCAVATION BE LEFT OPEN OR UNPROTECTED DURING NON-WORKING HOURS. UTILIZE SIGNS, BARRICADES, ETC., TO ENSURE THE SAFETY OF THE GENERAL PUBLIC.
14.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL WORK AS ILLUSTRATED ON PLANS. IF EXISTING CONDITIONS DIFFER FROM THOSE ILLUSTRATED ON PLANS, NOTIFY ENGINEER PRIOR TO CONSTRUCTION.
15.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES AT THE JOB SITE. IF DIFFERENCES ARE FOUND, NOTIFY ENGINEER IMMEDIATELY SO THAT MODIFICATIONS TO THESE DRAWINGS CAN BE MADE.

CONSTRUCTION NOTES

1.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCOMMODATION AND MAINTENANCE OF BASE AND STORM FLOWS IN ALL AREAS OF THE PROJECT SITE THROUGHOUT THE CONSTRUCTION PERIOD.
2.

ANY TEMPORARY DIVERSION SWALES SHALL BE PROPERLY FILLED, GRADED, AND/OR STABILIZED PRIOR TO COMPLETION OF CONSTRUCTION.
3.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCOMMODATION AND MAINTENANCE OF GROUNDWATER AND SEEPAGE IN ALL AREAS OF THE PROJECT SITE THROUGHOUT THE CONSTRUCTION PERIOD.
4.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONFIGURATION OF ALL EXCAVATION, UNDERCUT, AND BACKFILL AREAS AND FOR MAINTAINING A SAFE WORK ENVIRONMENT IN ALL AREAS OF THE CONSTRUCTION SITE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATORY REQUIREMENTS.
5.

UPON COMPLETION OF FINAL GRADING, ALL DISTURBED AREAS OF THE CONSTRUCTION SITE SHALL BE STABILIZED WITH VEGETATION IN ACCORDANCE WITH SECTION 02480 OF THE CONSTRUCTION SPECIFICATIONS.
6.

ANY STOCKPILES, ETC., SHALL BE REMOVED BY THE CONTRACTOR PRIOR TO CONSTRUCTION COMPLETION, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
7.

EVERY DAY OF CONSTRUCTION, THE CONTRACTOR SHALL EMAIL AND/OR DIGITALLY TEXT A FEW DIGITAL PHOTOS OF THE CONSTRUCTION PROGRESS TO THE ENGINEER. THE CONTRACTOR SHALL SUBMIT ADDITIONAL DIGITAL PHOTOS UPON THE ENGINEER'S REQUEST. ALL SUCH CONSTRUCTION PHOTOS SHALL BE OF SUFFICIENT RESOLUTION AND CONSTRUCTION CONTENT TO THE ENGINEER'S SATISFACTION. IN THE EVENT THAT THE PHOTOS ARE NOT TO THE ENGINEER'S SATISFACTION, THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES (SUCH AS UPGRADING DIGITAL PHOTOGRAPHY AND/OR DELIVERY EQUIPMENT, ETC.) TO BRING THIS CONSTRUCTION REQUIREMENT INTO COMPLIANCE.
8.

THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF RECORD DRAWINGS OF THE CONSTRUCTION AS THE WORK PROGRESSES. THE RECORD DRAWINGS SHALL PROVIDE "AS-BUILT" ELEVATIONS AND DIMENSIONS FOR THE RESPECTIVE DATA INDICATED ON THE PLANS, AND REFLECT ALL FIELD MODIFICATIONS TO THE PROPOSED REPAIRS.
9.

THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF "FINAL" RECORD DRAWINGS TO THE ENGINEER NO LATER THAN 3 WEEKS AFTER COMPLETION OF CONSTRUCTION.

PERMANENT SEEDING PLAN

| Seed Mixture                                  | Seed Date        | Soil Amendments   | Mulch   | Maintenance  |
|---|------------------|---|---|--|
| Centipede<br>grass<br>10-20 lb/acre<br>(seed) | Mar. - June      | Apply lime and fertilizer according to soil tests, or apply 300 lb/acre 10-10-10 fertilizer | Do not mulch  | Fertilize very sparingly-20 lb/acre in spring with no phosphorus.  |
| Pensacola<br>Bahia<br>grass<br>50 lb/acre     | Apr. 1 - July 15 | Apply lime and fertilizer according to soil tests, or apply 500 lb/acre 10-10-10 fertilizer | Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool | Refertilize the following Apr. with 50 lb/acre nitrogen. Repeat as growth requires. May be mowed only once a year. |
| Common<br>Bermuda<br>grass<br>40 lb/acre      |                  |   |   |  |
| German Millet<br>10 lb/acre                   |                  |   |   |  |

STATE DAM ID: FORSY-033 (LOW HAZARD)

FINAL DRAWING - ISSUED FOR CONSTRUCTION

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Clemmons, NC 27012

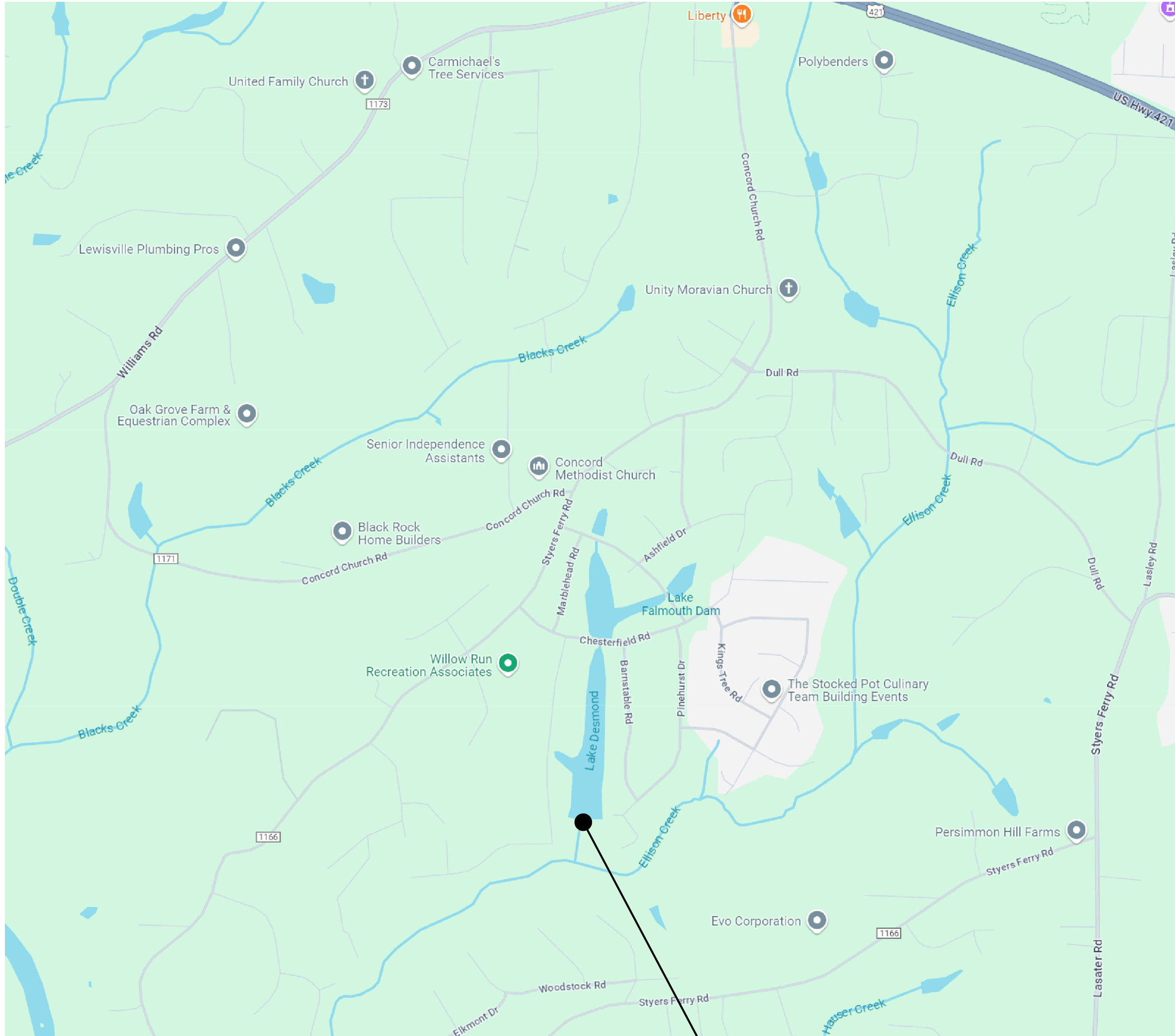
LICENSE NO. C-2909

LAKE MARBLEHEAD DAM REPAIRS  
TOWN OF LEWISVILLE  
LEWISVILLE, NC - FORSYTH COUNTY

LEGEND, ABBREVIATIONS, AND NOTES

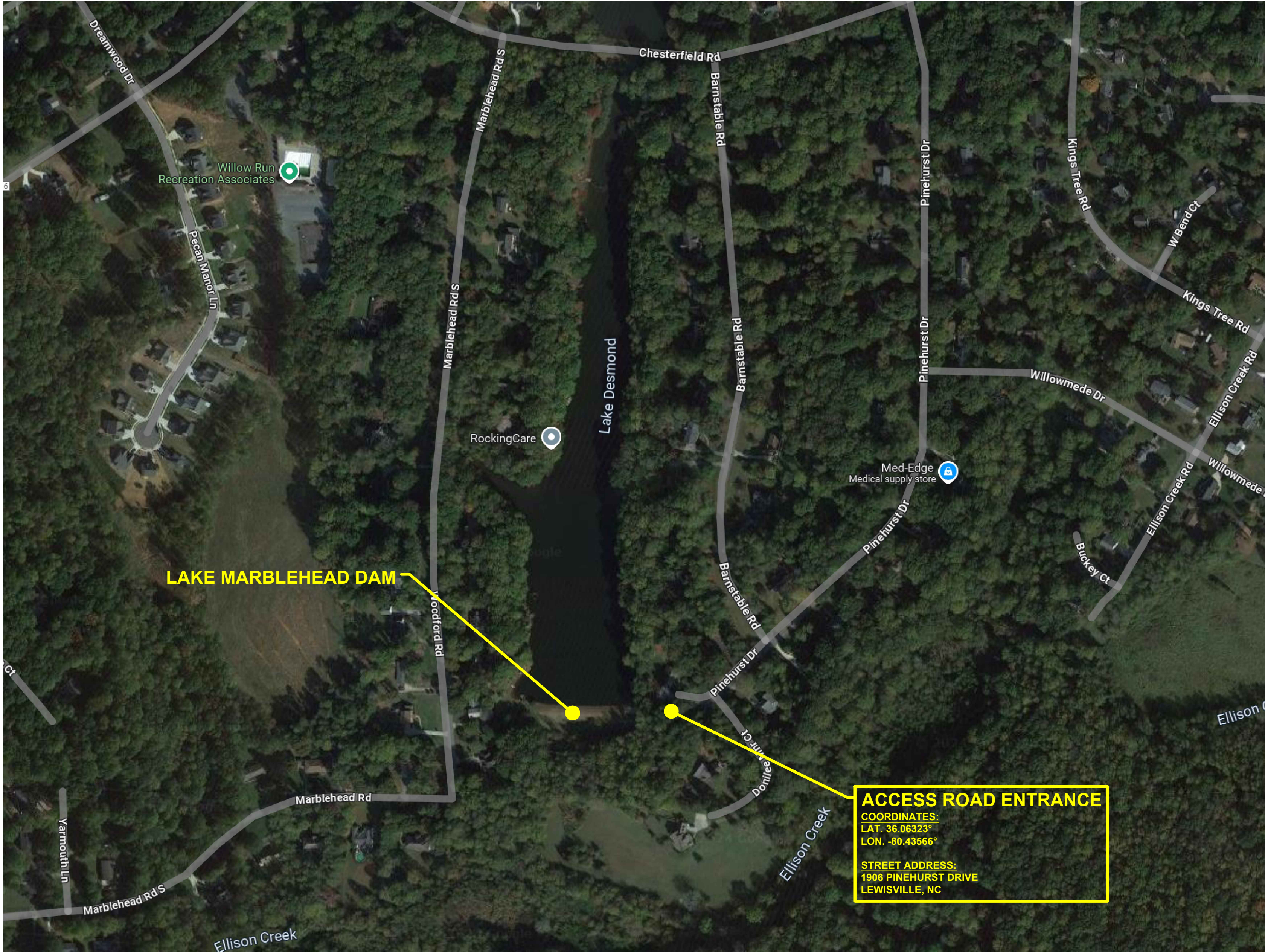
DATE: DECEMBER 2024  
DESIGNED: JTG  
DRAWN: DNH  
JOB NO. 23-150-23-1  
SHEET: C1.1  
OF: 12





SITE MAP  
NOT TO SCALE

PROJECT SITE  
COORDINATES:  
LAT. 36.06318°  
LON. -80.43703°



AERIAL MAP  
SCALE: 1" = 100'

ACCESS ROAD ENTRANCE  
COORDINATES:  
LAT. 36.06323°  
LON. -80.43566°  
STREET ADDRESS:  
1906 PINEHURST DRIVE  
LEWISVILLE, NC

STATE DAM ID: FORSY-033 (LOW HAZARD)

LAKE MARBLEHEAD DAM REPAIRS  
TOWN OF LEWISVILLE  
LEWISVILLE, NC - FORSYTH COUNTY  
PROJECT SITE MAPS

DATE: DECEMBER 2024  
DESIGNED: JTG  
DRAWN: DNH  
JOB NO: 23-150-23-1  
SHEET: C1.2  
OF: 12

LICENSE NO. C-2909

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FINAL DRAWING - ISSUED FOR CONSTRUCTION

| MARK  | REVISIONS               | BY  | DATE     |
|-------|-------------------------|-----|----------|
| *R-1* | ISSUED FOR CONSTRUCTION | JTG | 07/15/25 |



Legend

Existing Minor Contour Line

Existing Major Contour Line

Proposed Minor Contour Line

Proposed Major Contour Line

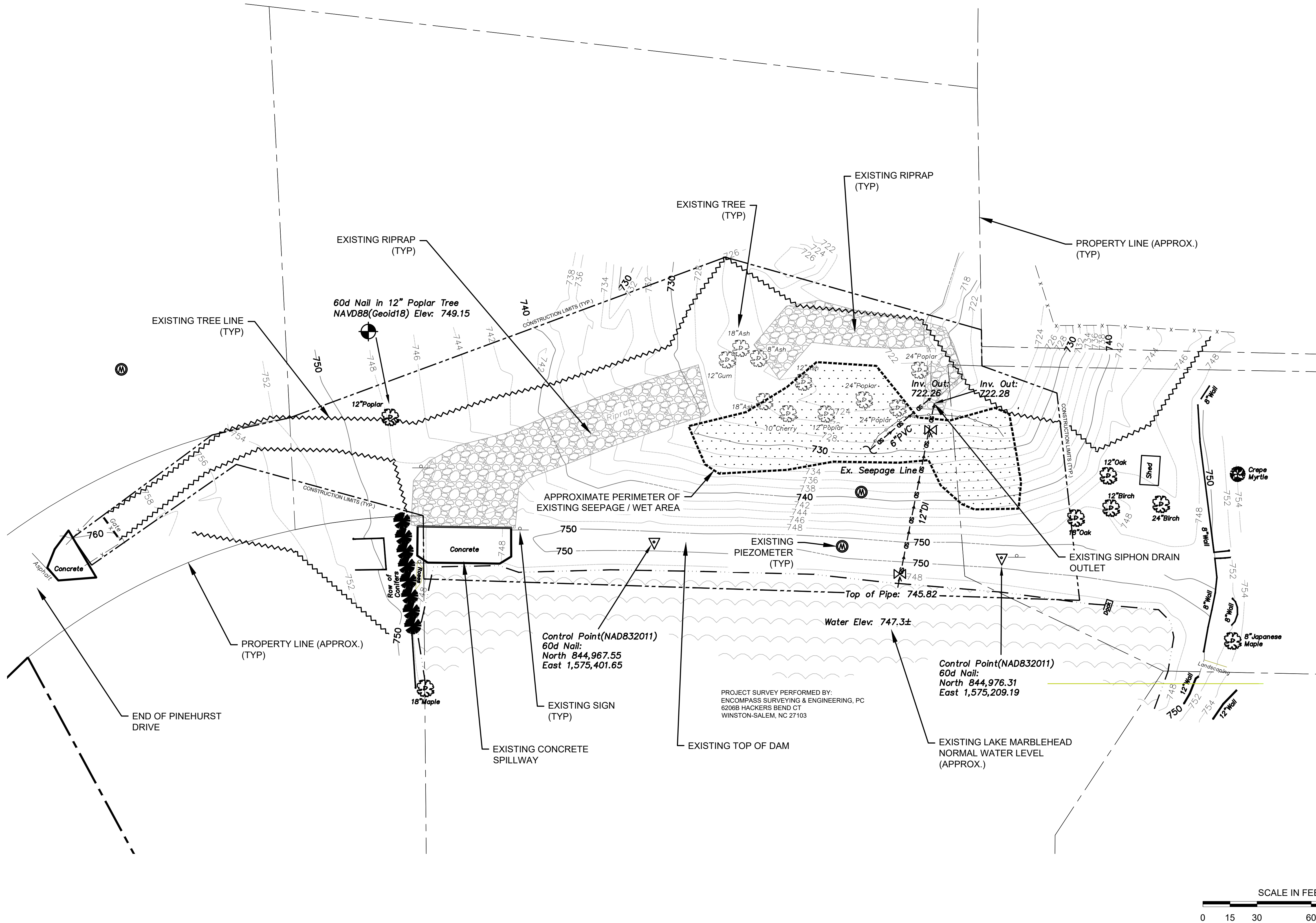
Control Point

Limits of Construction

Edge of Lake

Edge of Trees

Riprap



NAD 83 (2011)

STATE DAM ID: FORSY-033 (LOW HAZARD)

LAKE MARBLEHEAD DAM REPAIRS  
TOWN OF LEWISVILLE  
LEWISVILLE, NC - FORSYTH COUNTY  
EXISTING SITE CONDITIONS

DATE: DECEMBER 2024  
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SHEET: C2.0  
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GRIMES  
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|-------|-------------------------|-----|----------|
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Legend

Existing Minor Contour Line

Existing Major Contour Line

Proposed Minor Contour Line

Proposed Major Contour Line

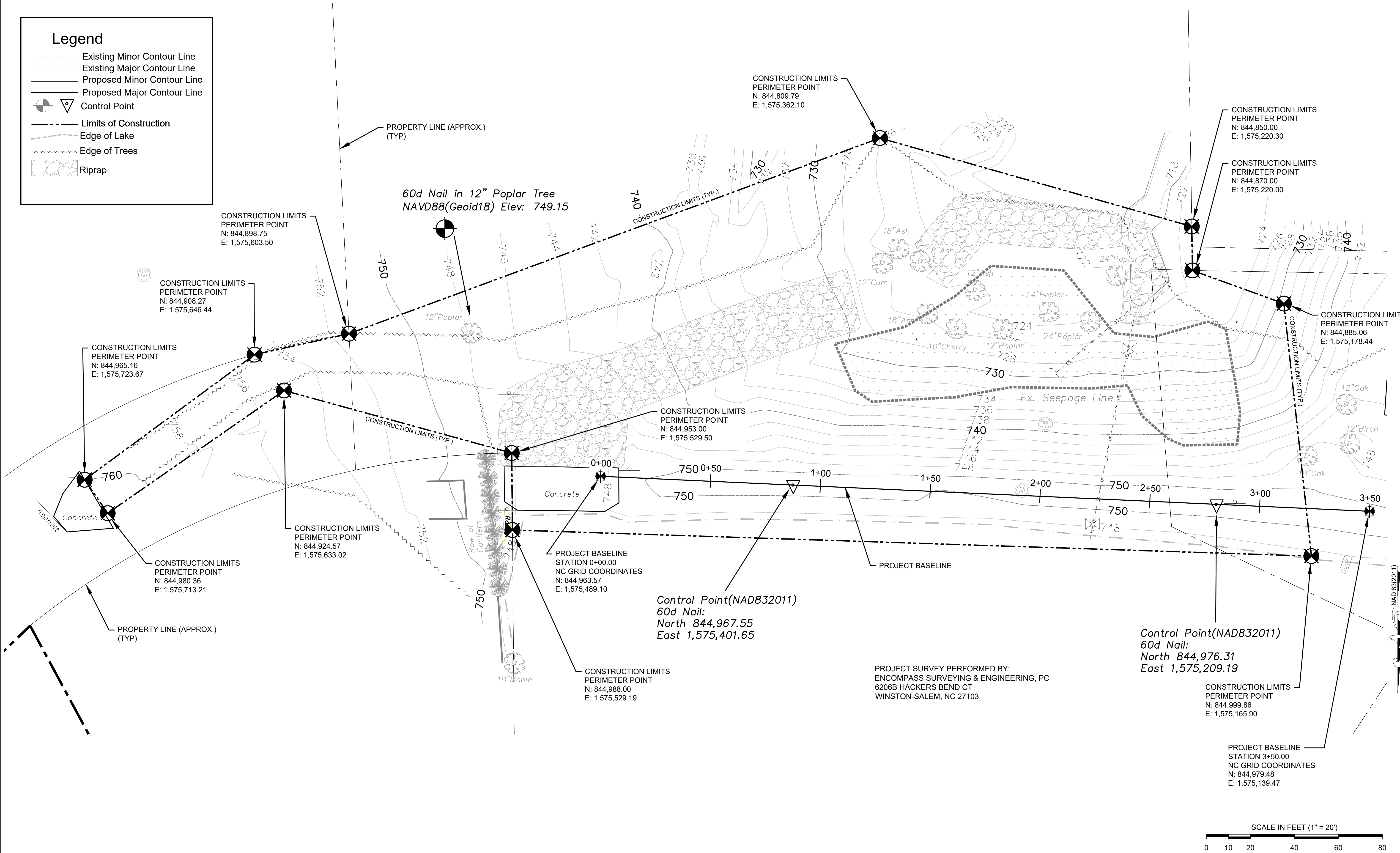
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LAKE MARBLEHEAD DAM REPAIRS  
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LEWISVILLE, NC - FORSYTH COUNTY

PROJECT SITE LAYOUT

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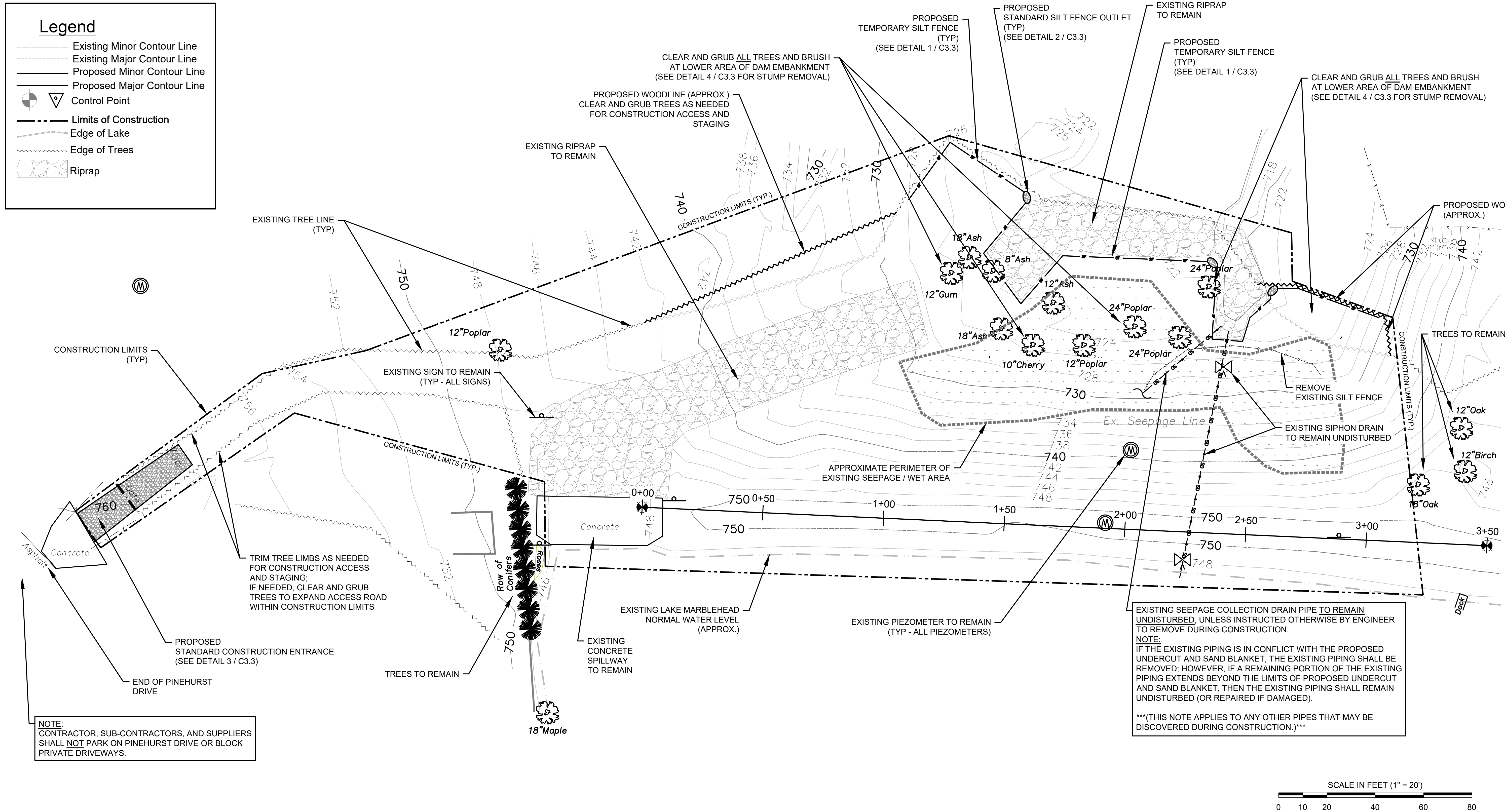
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FINAL DRAWING - ISSUED FOR CONSTRUCTION

DATE: 07/15/23  
BY: JTG  
REVISIONS





**SUGGESTED CONTROL OF WATER AND CONSTRUCTION SEQUENCE:**

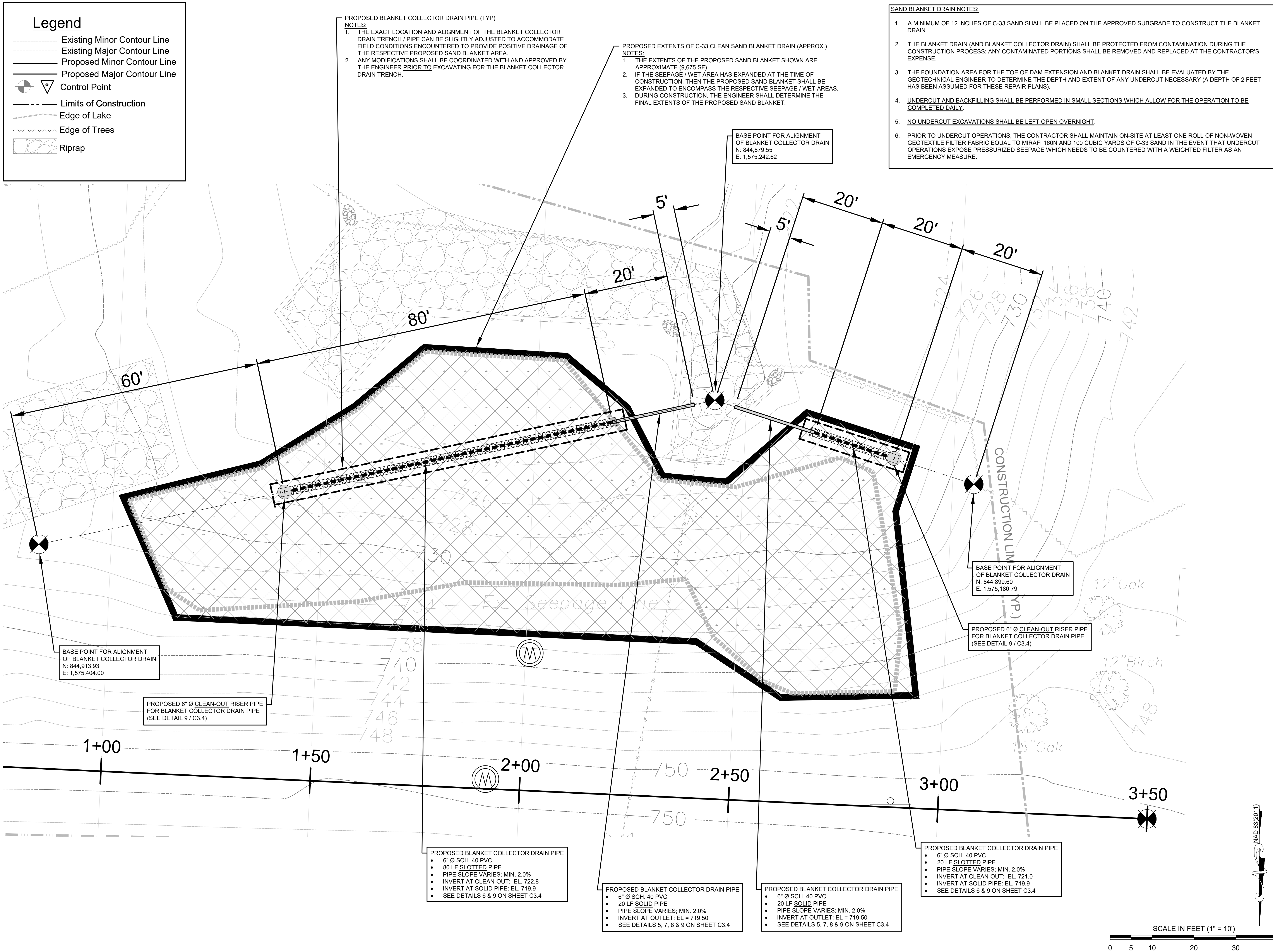
NOTE:

THE CONTRACTOR IS FULLY RESPONSIBLE FOR DETERMINING THE EXACT SIZE, CONFIGURATION, PHASING, STAGING, AND IMPLEMENTATION OF THE ENTIRE CONTROL OF WATER PLAN AND CONSTRUCTION SEQUENCE THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT; THE CONTROL OF WATER PLAN SHOWN ON THE PLANS IS FOR CONCEPTUAL PURPOSES ONLY.

1. LOWER THE LAKE AT A MAXIMUM RATE OF ONE VERTICAL FOOT PER DAY (24 HOURS) AND MAINTAIN LAKE AT LEAST 5.0 FEET BELOW NORMAL POOL THROUGHOUT CONSTRUCTION.
2. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES.
3. STORE ON-SITE AT LEAST THE REQUIRED GEOTEXTILE FILTER FABRIC AND C-33 SAND PRIOR TO UNDERCUT OPERATIONS (SEE SAND BLANKET DRAIN NOTES, SHEET C3.1).
4. REMOVE TREES WITHIN CONSTRUCTION AREA AS NOTED.
5. REMOVE ALL STUMPS, GRASS, ORGANICS, AND UNSUITABLE SOILS WITHIN DAILY CONSTRUCTION AREA AND INSTALL RESPECTIVE SAND BLANKET DRAIN
6. COMPLETE ENGINEERED FILL AND GRADING WORK.
7. UPON STABILIZATION OF ALL DISTURBED AREAS, REMOVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES.

[illegible]





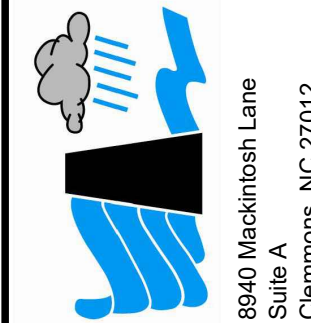
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PROPOSED SEEPAGE COLLECTION PLAN

DATE: DECEMBER 2024  
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EARTHWORK NOTES:

1.

ALL EXISTING VEGETATION, DEBRIS, AND ORGANICS SHALL BE REMOVED FROM AREAS OF THE EXISTING DAM EMBANKMENT WHERE PROPOSED (NEW) FILL AND GRADING IS TO BE PERFORMED.

2.

ALL PROPOSED (NEW) FILL SHALL BE BENCHED INTO THE EXISTING EARTH EMBANKMENT TO PROVIDE A STEPPED INTERFACE BETWEEN PROPOSED (NEW) AND EXISTING SOILS.

3.

A MINIMUM OF 12 INCHES OF COMPACTED SOIL (95% STANDARD PROCTOR MAXIMUM DRY DENSITY) WITH A MAXIMUM PERMEABILITY OF 1 x 10(-5) CM/SEC SHALL BE PLACED OVER THE SAND BLANKET DRAIN, UNLESS DIRECTED OTHERWISE BY THE GEOTECHNICAL ENGINEER.

4.

CONTROLLED, COMPACTED FILL SHALL CONSIST OF APPROVED MATERIALS THAT ARE FREE OF ORGANIC MATTER AND DEBRIS. A SAMPLE OF EACH MATERIAL TYPE SHALL BE SUBMITTED TO THE GEOTECHNICAL ENGINEER FOR EVALUATION AT LEAST 3 WEEKS PRIOR TO USE OF MATERIALS TO PROVIDE ADEQUATE TIME FOR EVALUATION.

5.

THE GEOTECHNICAL ENGINEER (GEOTECHNOLOGIES) SHALL BE PRESENT DURING CONSTRUCTION TO OBSERVE EARTHWORK AND TO PERFORM NECESSARY TESTS AND OBSERVATIONS FOR THE FOLLOWING: SUBGRADE PREPARATION, PLACEMENT, AND COMPACTION OF CONTROLLED COMPACTED FILLS.

6.

COMPACTION REQUIREMENTS:

6.1.

FILL LIFT THICKNESS:

8-INCHES OR LESS IN LOOSE THICKNESS (4" TO 6" LIFTS WHEN HAND-OPERATED EQUIPMENT IS USED)

6.2.

COMPACTION REQUIREMENTS:

MINIMUM 95% OF THE MATERIALS MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D698)

6.3.

MOISTURE CONTENT:

WITHIN THE RANGE OF 0% TO +4% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR TEST AT THE TIME OF PLACEMENT AND COMPACTION.

6.4.

ENGINEERED FILL SHALL BE TESTED FOR MOISTURE CONTENT AND COMPACTION DURING PLACEMENT. IF IN-PLACE DENSITY TESTS INDICATE THE SPECIFIED MOISTURE OR COMPACTION LIMITS HAVE NOT BEEN MET, THE AREA REPRESENTED BY THE TESTS SHALL BE REWORKED AND RETESTED AS REQUIRED UNTIL THE SPECIFIED MOISTURE AND COMPACTION REQUIREMENTS ARE ACHIEVED.

GRADING NOTES:

1.

PROPOSED SLOPES SHALL BE NO STEEPER THAN 2.5H:1V.

2.

ALL SLOPES OF COMPACTED FILL SHALL BE OVERBUILT AND THEN CUT BACK TO FINISHED GRADE TO EXPOSE COMPACTED FILL ON THE SLOPE FACE.

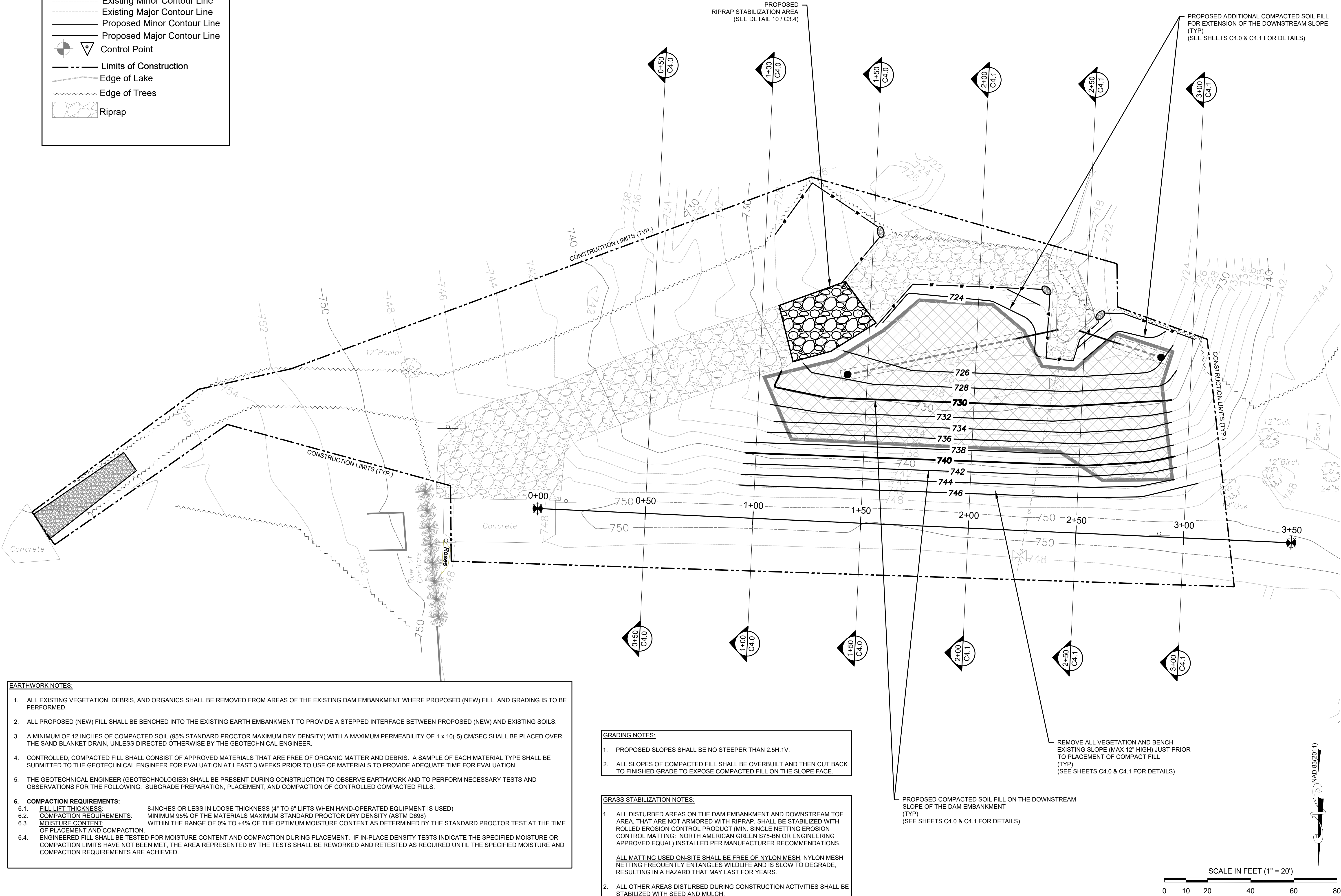
GRASS STABILIZATION NOTES:

1.

ALL DISTURBED AREAS ON THE DAM EMBANKMENT AND DOWNSTREAM TOE AREA, THAT ARE NOT ARMORED WITH RIPRAP, SHALL BE STABILIZED WITH ROLLED EROSION CONTROL PRODUCT (MIN. SINGLE NETTING EROSION CONTROL MATTING: NORTH AMERICAN GREEN S75-BN OR ENGINEERING APPROVED EQUAL) INSTALLED PER MANUFACTURER RECOMMENDATIONS.  
  
ALL MATTING USED ON-SITE SHALL BE FREE OF NYLON MESH; NYLON MESH NETTING FREQUENTLY ENTANGLES WILDLIFE AND IS SLOW TO DEGRADE, RESULTING IN A HAZARD THAT MAY LAST FOR YEARS.

2.

ALL OTHER AREAS DISTURBED DURING CONSTRUCTION ACTIVITIES SHALL BE STABILIZED WITH SEED AND MULCH.



STATE DAM ID: FORSY-033 (LOW HAZARD)

LAKE MARBLEHEAD DAM REPAIRS  
TOWN OF LEWISVILLE  
LEWISVILLE, NC - FORSYTH COUNTY

PROPOSED GRADING PLAN

DATE: DECEMBER 2024  
DESIGNED: JTG  
DRAWN: DNH  
JOB NO: 23-150-23-1  
SHEET: C3.2  
OF: 12

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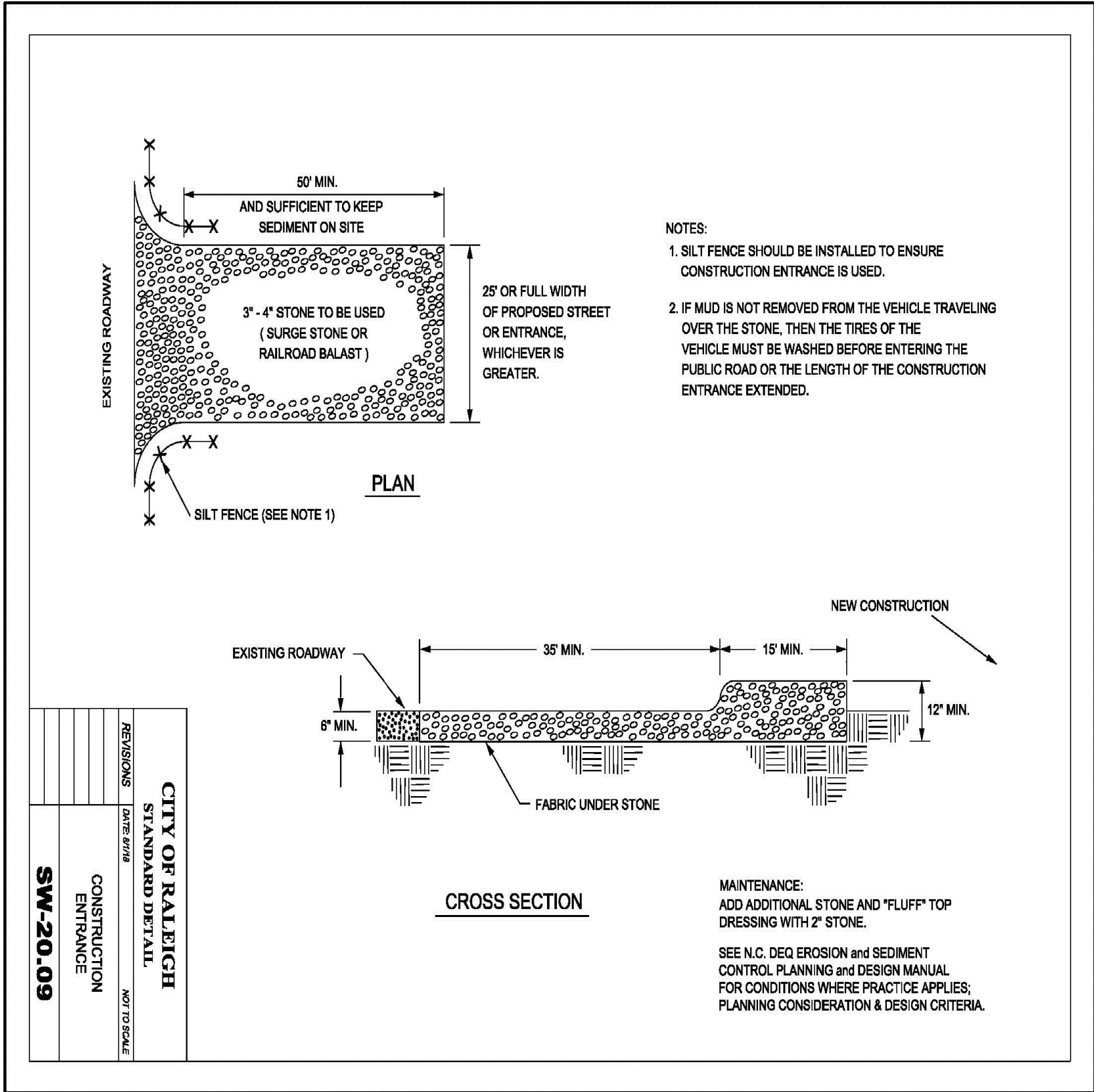
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Designing Solutions For Your Rainy Days  
Office / Cell: 336.490.8500  
jgrimes@grimes-engineering.com  
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8840 Mackintosh Lane  
Suite A  
Clemmons, NC 27012

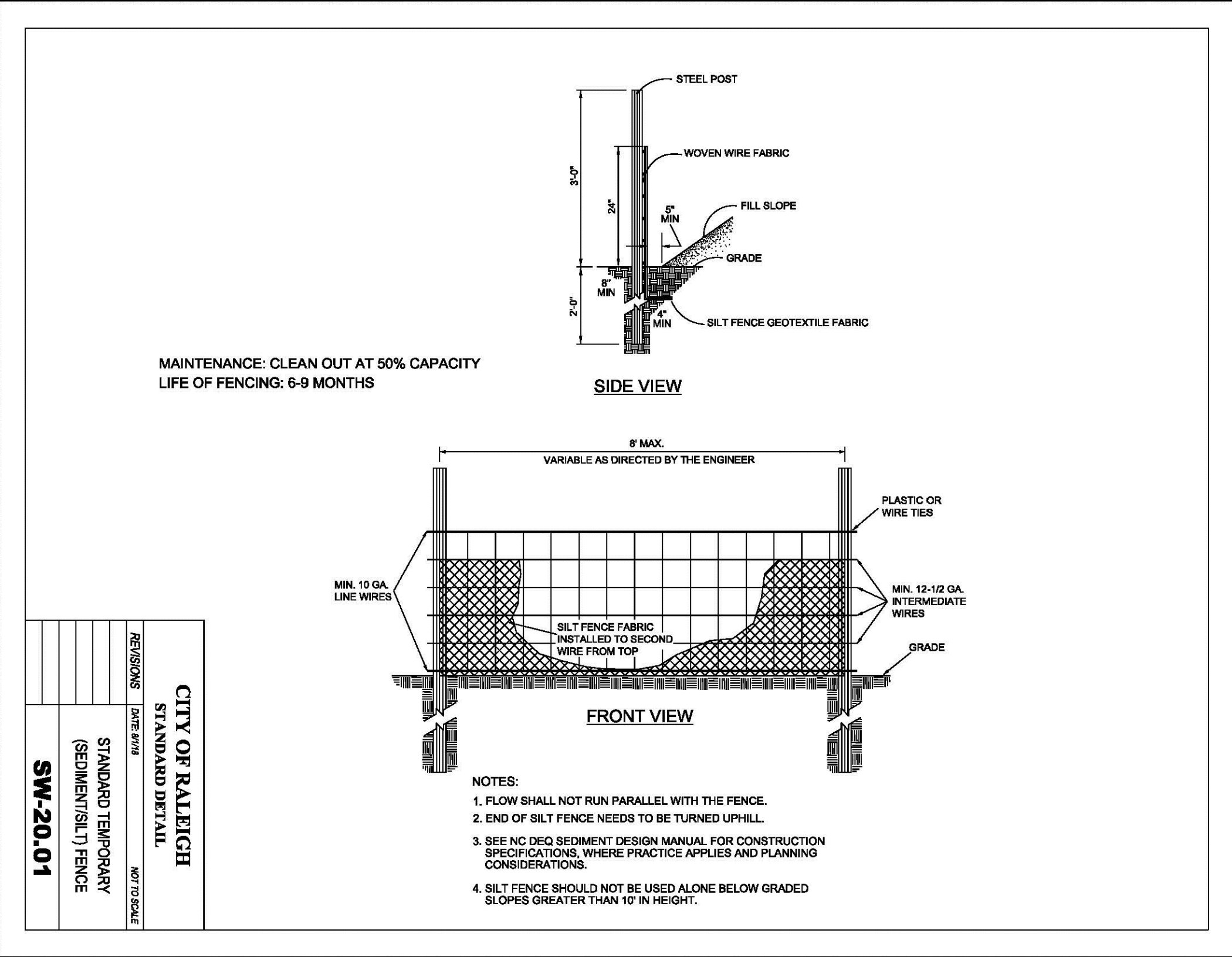
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DATE: 07/15/23  
BY: JTG  
MARK REVISIONS

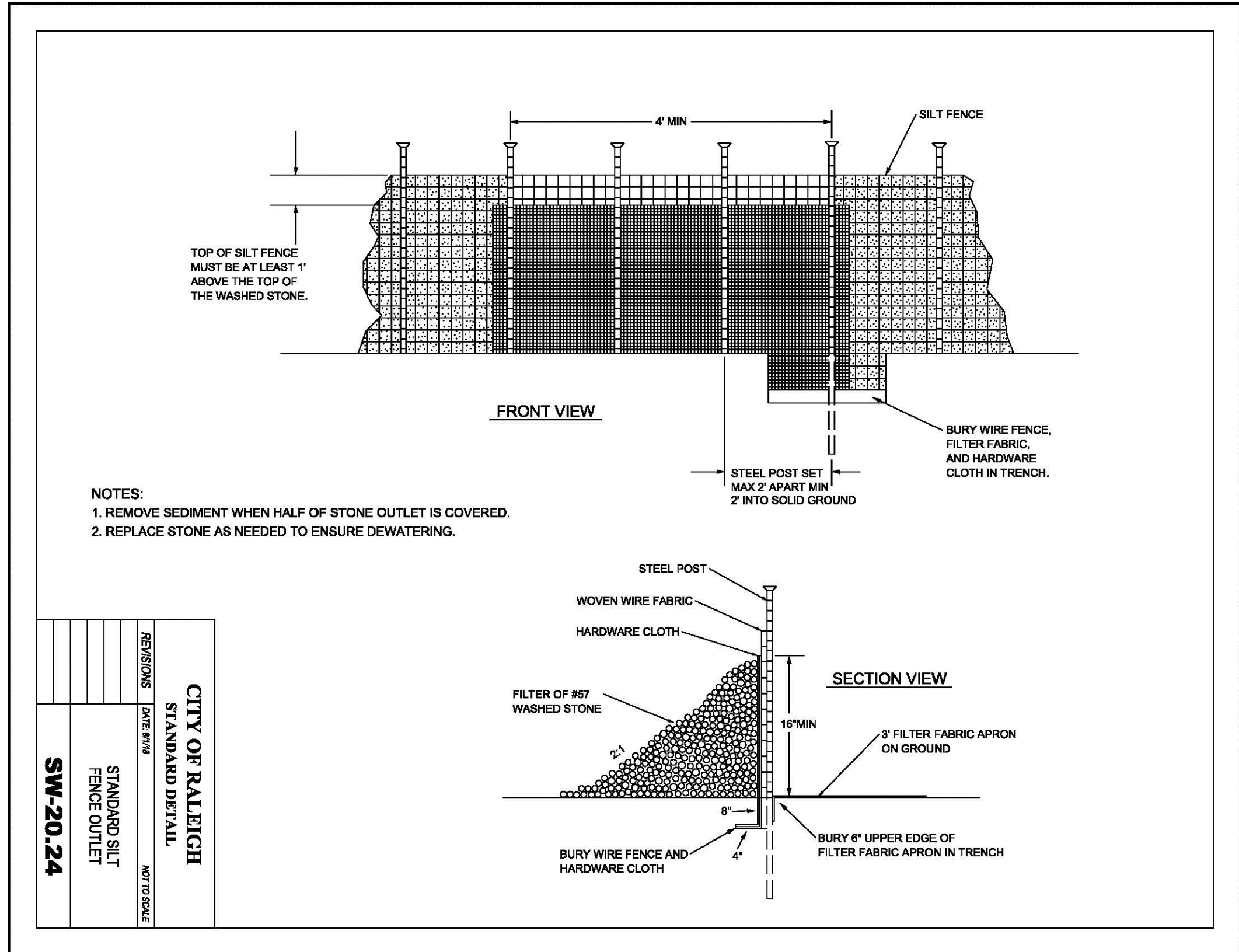




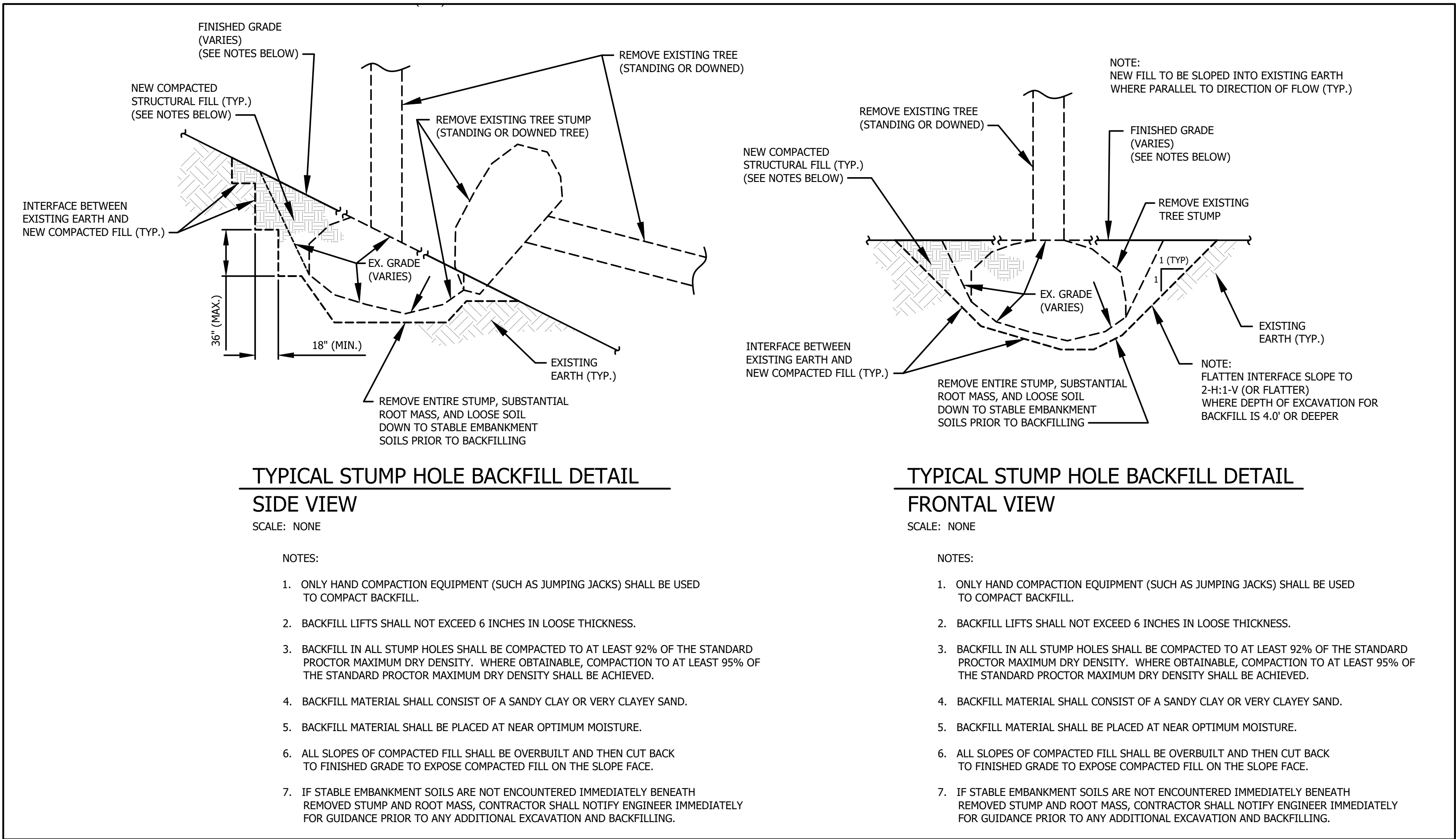
3 CONSTRUCTION ENTRANCE DETAIL  
C3.3 NOT TO SCALE



1 TEMPORARY SILT FENCE DETAIL  
C3.3 NOT TO SCALE



2 STANDARD SILT FENCE OUTLET DETAIL  
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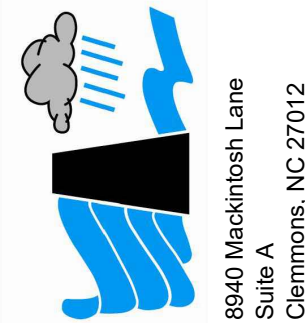


4 TYPICAL STUMP HOLE REPAIR DETAIL  
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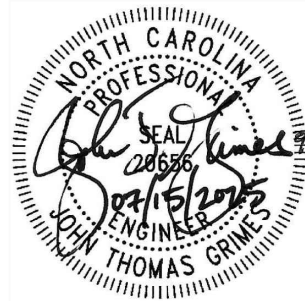
STATE DAM ID: FORSY-033 (LOW HAZARD)

LAKE MARBLEHEAD DAM REPAIRS  
TOWN OF LEWISVILLE  
LEWISVILLE, NC - FORSYTH COUNTY

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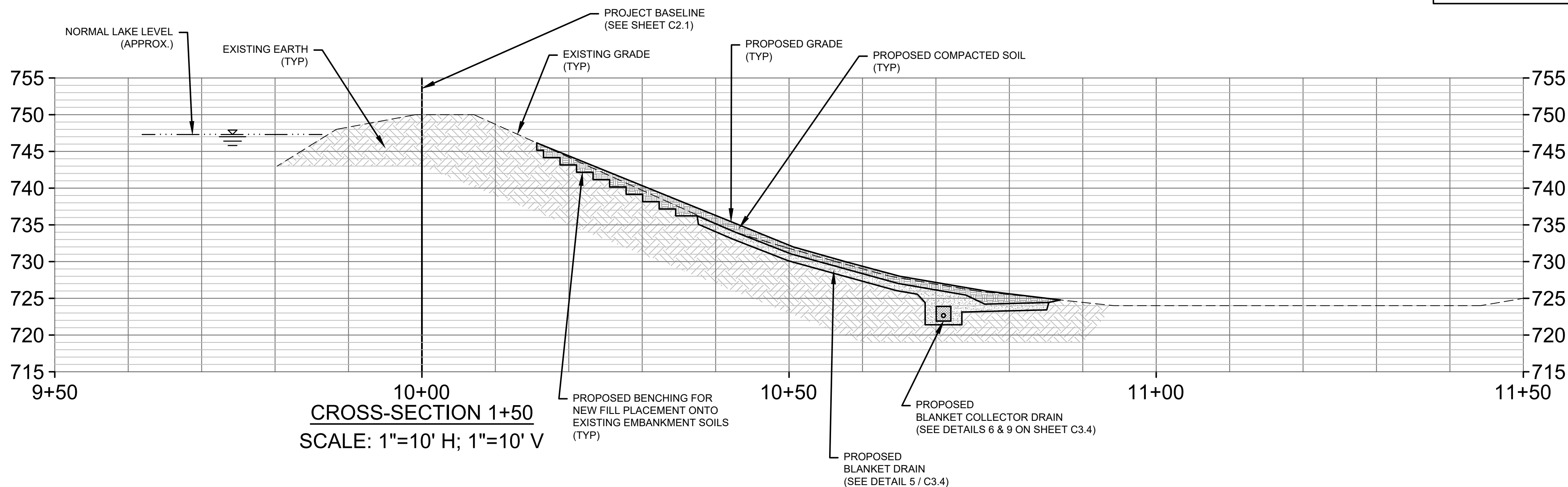
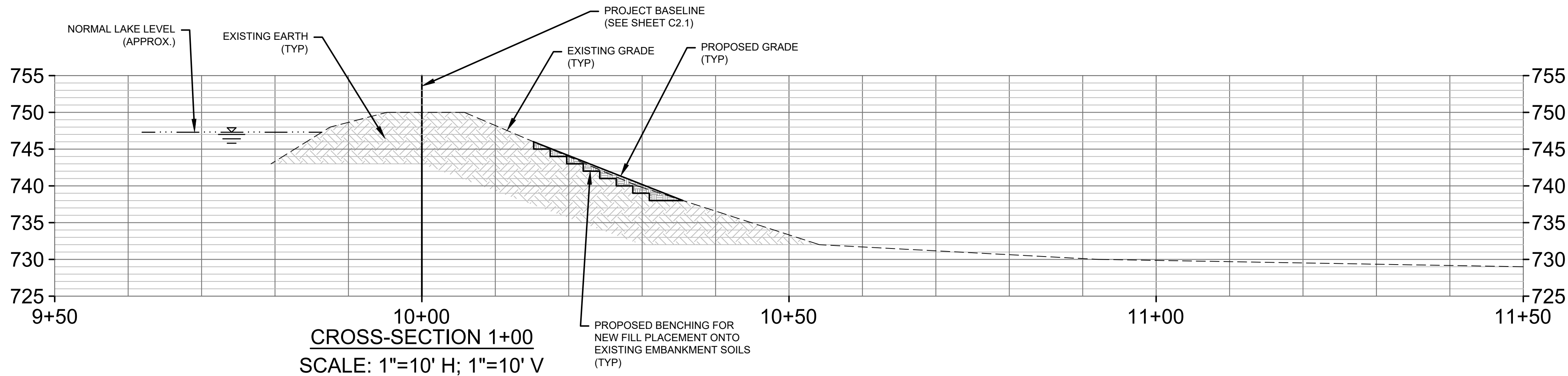
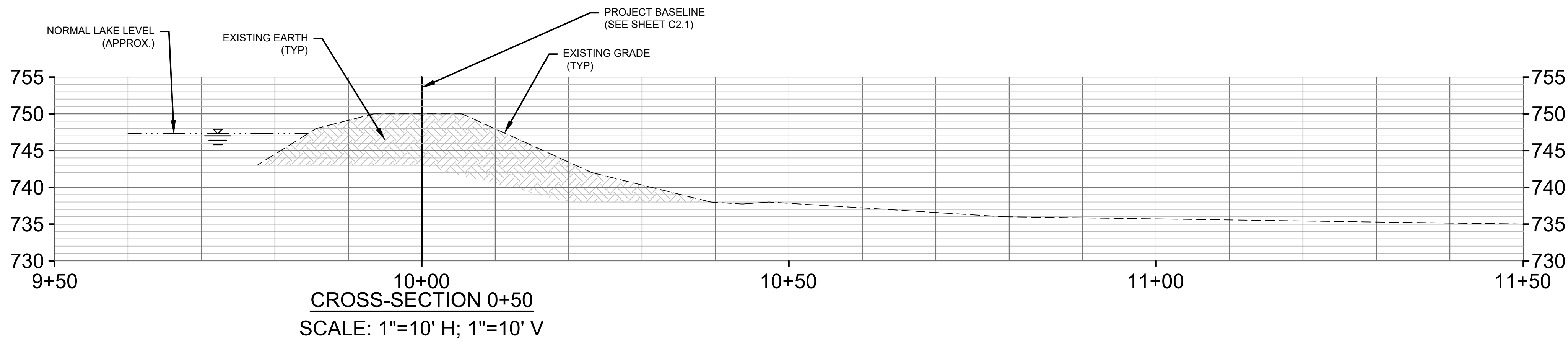
EROSION CONTROL DETAILS

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JOB NO: 23-150-23-1  
SHEET: C3.3  
OF: 12

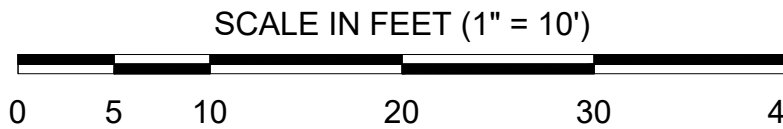








- NOTES:
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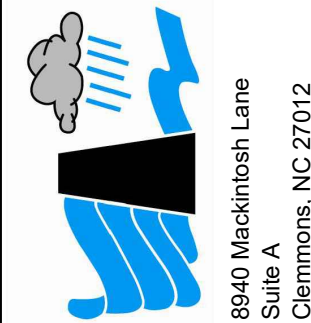


STATE DAM ID: FORSY-033 (LOW HAZARD)

LAKE MARBLEHEAD DAM REPAIRS  
TOWN OF LEWISVILLE  
LEWISVILLE, NC - FORSYTH COUNTY  
DAM EMBANKMENT CROSS SECTIONS - 1

DATE: DECEMBER 2024  
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SHEET: C4.0  
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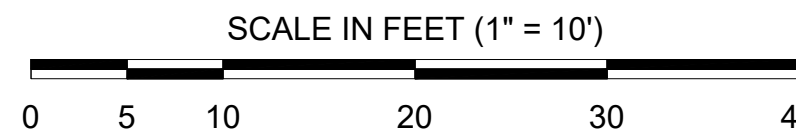
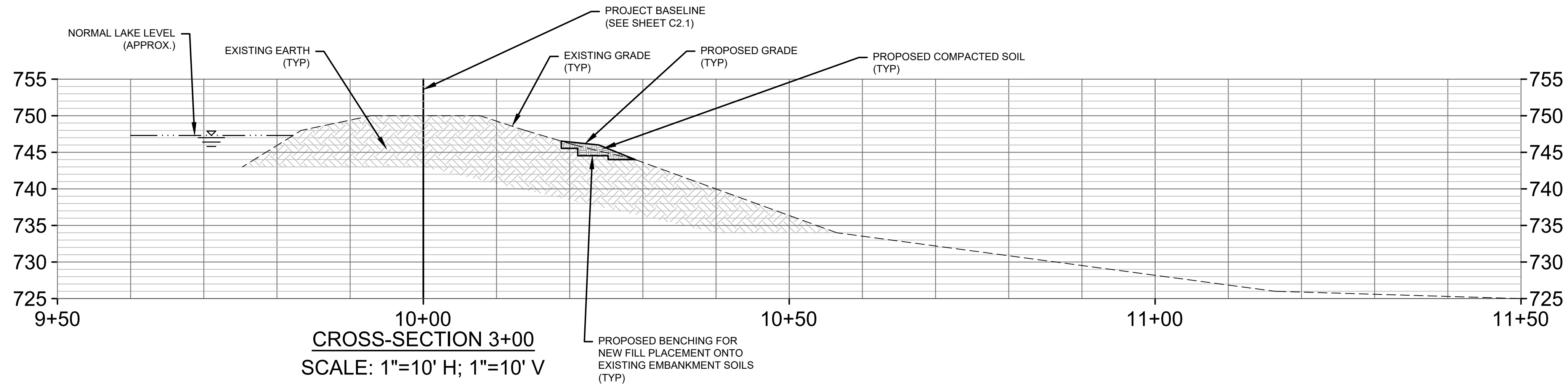
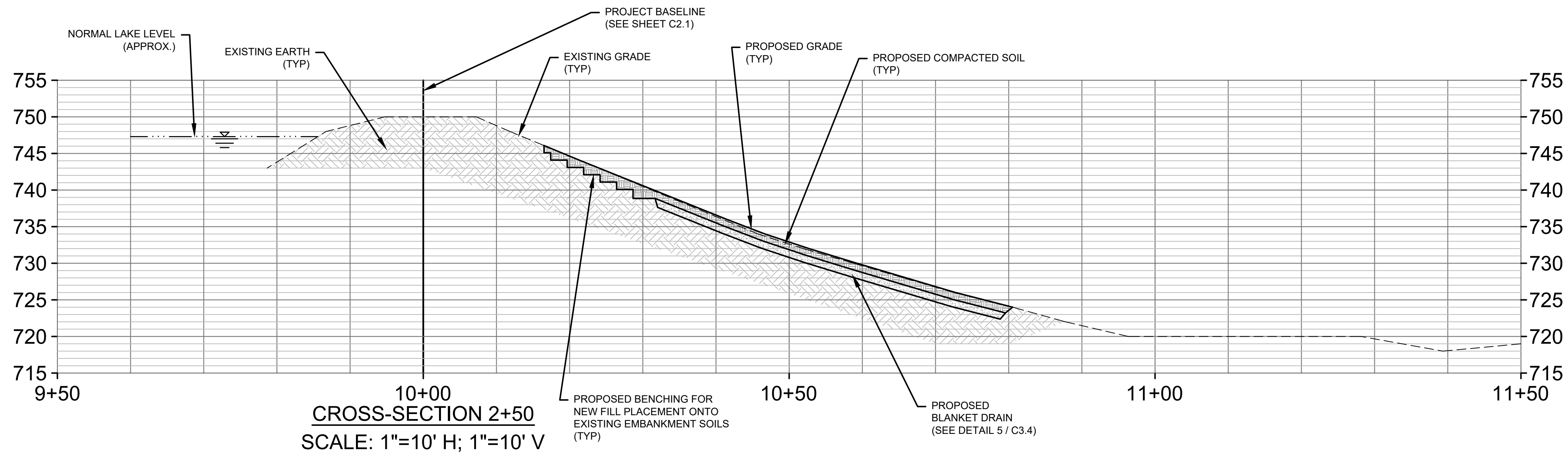
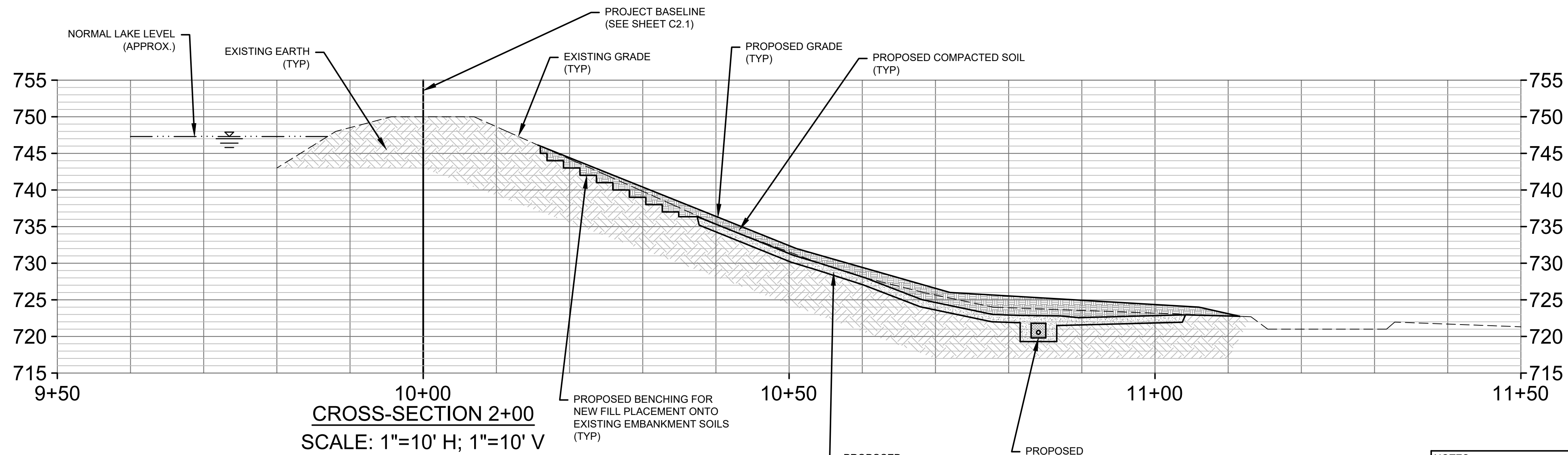


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STATE DAM ID: FORSY-033 (LOW HAZARD)

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