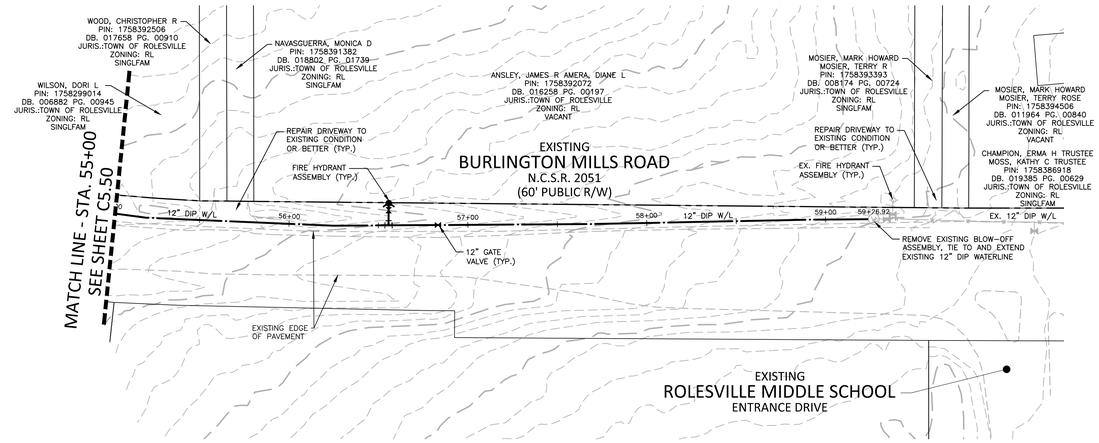
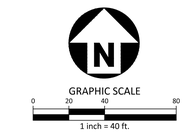
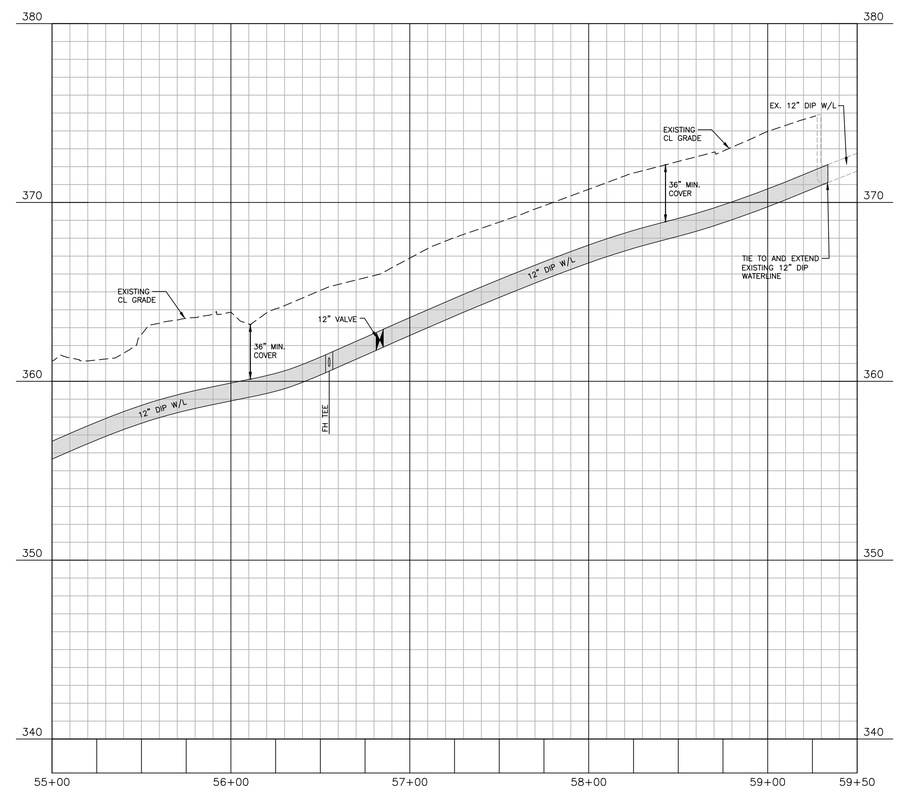




WATERLINE "1"



Public
Water Distribution / Extension System

The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

Public
Sewer Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

X:\Projects\AGN\AGN23001\04-Production\Engineering\Construction Drawings\Current Drawings\AGN23001-P5.dwg, 3/26/2025 8:39:46 AM, Sherrill Williams

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RALEIGH, NORTH CAROLINA 27615
CONTACT: JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC
BROKERAGE | CONSULTING | PLANNING

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL
NOT FOR CONSTRUCTION

PEARCE FARM - PHASES 1-3

CONSTRUCTION DRAWINGS - PACKAGE 1

BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-P5
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'/1"=4'
DATE	12. 02. 2024

PLAN AND PROFILE
WATERLINE "1", STA. 55+00 THRU STA. 59+50

C5.51

EROSION CONTROL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF ROLESVILLE AND WAKE COUNTY STANDARDS, SPECIFICATIONS AND DETAILS.
2. GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE WAKE COUNTY SOIL AND EROSION CONTROL STANDARDS AND SPECIFICATIONS.
3. GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES DIVISION OF WATER QUALITY (DWQ) STANDARDS AND SPECIFICATIONS. WHERE DIFFERENT FROM WAKE COUNTY STANDARDS, THE MORE STRINGENT METHOD SHALL BE APPLIED.
4. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY EITHER THE COUNTY EROSION CONTROL DEPARTMENT OR THE DWQ.
5. CONTRACTOR SHALL SEED AND STABILIZE ALL STEEP SLOPES (GREATER THAN 2H:1V) WITHIN 7 DAYS, 10 DAYS FOR MODERATE SLOPES (3H:1V OR GREATER) AND WITHIN 14 CALENDAR DAYS EVERYWHERE ELSE (STATE LAW 2009-486).
6. FOR ANY LAND-DISTURBING ACTIVITY WHERE GRADING ACTIVITIES HAVE BEEN COMPLETED, TEMPORARY OR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER COMPLETING THE WORK. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE ON THE PLAN.
7. NO DEBRIS SHALL BE TRACKED ONTO PUBLIC RIGHT OF WAY. IF THE SITUATION OCCURS WHERE MUD, ROCK AND DEBRIS IS TRACKED ONTO PAVEMENT, THE CONTRACTOR SHALL CLEAN THE PAVEMENT AND INSTALL ADDITIONAL MEASURES TO PREVENT THE FUTURE OCCURRENCE.
8. THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES.
9. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR AN INSPECTION BY WAKE COUNTY SEDIMENTATION AND EROSION CONTROL (SEC) ONCE INITIAL MEASURES ARE IN PLACE. (SEE CONSTRUCTION SEQUENCE)
10. CONTRACTOR SHALL INSPECT ALL SEDIMENT /EROSION CONTROL DEVICES AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
11. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
12. CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
13. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
14. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY/COUNTY ENGINEERING DEPARTMENT AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
15. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND A TREE, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA AND SHALL BE POSTED ON THE PROTECTION FENCE. A PROTECTION FENCE CONSTRUCTED OF MATERIAL RESISTANT TO DEGRADATION BY SUN, WIND, AND MOISTURE FOR THE DURATION OF THE CONSTRUCTION, SHALL BE INSTALLED AT THE SAME TIME AS THE EROSION CONTROL MEASURES AND SHALL BE IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
16. A CONSTRUCTION SEQUENCE HAS BEEN PROVIDED. INSTALLATION OF ALL PROPOSED SEDIMENTATION & EROSION CONTROL MEASURES IN THE SEQUENCE(S) PROVIDED AND MAINTENANCE OF THOSE DEVICES IS REQUIRED. THE CONTRACTOR MAY BE ALLOWED, WITH PRIOR APPROVAL FROM THE OWNER, TO COORDINATE CHANGES TO THE PLAN WITH THE ON-SITE SEDIMENTATION & EROSION CONTROL INSPECTOR AND THE ENGINEER.
17. PROVIDE INLET PROTECTION AROUND ALL SITE STORM INLETS. PROTECT OPEN PIPES UNDER CONSTRUCTION WITH EITHER PLYWOOD OR WITH MESH AND GRAVEL WEIRS. RUNOFF SHALL NOT BE ALLOWED IN ANY OPEN TRENCH.
18. CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE RELIEF FROM CONCENTRATED FLOWS.
19. TEMPORARY DIVERSIONS SHALL BE MAINTAINED DAILY BY CONTRACTOR SO THAT THEY ARE FUNCTIONAL AT THE END OF EACH WORKDAY AND WHEN STOPPING WORK FOR RAIN.
20. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
21. DISTURBANCE OUTSIDE OF THE SITE PROPERTY LIMITS OR PUBLIC RIGHT-OF-WAY SHALL ONLY BE AS ALLOWED BY SIGNED GRADING AGREEMENTS AND/OR EASEMENTS BETWEEN THE DEVELOPER AND THE OFFSITE PROPERTY OWNER.
22. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE OPEN ACCESS TO ALL PROPERTIES ALONG ADJACENT PROPERTIES DURING CONSTRUCTION PERIOD FOR IMPROVEMENTS.
23. STORM DRAINAGE STRUCTURE LOCATIONS AND PIPE SIZES SUBJECT TO FINAL CONSTRUCTION DRAWING APPROVAL.

STOCKPILE NOTES

DESIGN CRITERIA

A. STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES.

B. STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET.

C. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.

D. OFF-SITE SPOIL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL, PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY SUBSECTION 14-19-2 OF THE WAKE COUNTY UNIFIED DEVELOPMENT ORDINANCE (CERTIFICATIONS AND PERMITS REQUIRED).

E. SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.

F. IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.

G. THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE IS REQUIRED.

H. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

I. STOCKPILE MUST HAVE SILT FENCE WRAPPED AROUND THE LOW SIDE(S) AND A SILT FENCE OUTLET AT ALL LOW POINTS.

CONSTRUCTION SEQUENCE - STAGE 1:

1. OBTAIN GRADING PERMIT FROM THE WAKE COUNTY ENVIRONMENTAL SERVICES DEPARTMENT.
2. CALL ENVIRONMENTAL CONSULTANT JEEVAN NEUPANE, PE (919-819-8907) TO SCHEDULE A PRE-CONSTRUCTION MEETING. NOTIFY OWNER AND ENGINEER WHEN PRECON IS SCHEDULED SO THEY MAY ALSO ATTEND.

2a. SEE SHEET C6.001 FOR DAM BREACH CONSTRUCTION SEQUENCE. THE DAM BREACH SHALL BE DONE SIMULTANEOUSLY WITH THE OVERALL SITE STAGE 1EROSION CONTROL.

3. CONTRACTOR WILL BE REQUIRED TO SUBMIT SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG010000) TO WAKE COUNTY INSPECTIONS THROUGHOUT THE PROJECT.
4. INSTALL THE FOLLOWING EROSION AND SEDIMENTATION CONTROL DEVICES PER THE APPROVED PLAN IN THE FOLLOWING ORDER:
   a. GRAVEL CONSTRUCTION ENTRANCES AND TEMPORARY ACCESS ROADS.
   b. TREE PROTECTION FENCE
   c. SILT FENCING SURROUNDING SITE WITH SILT FENCE OUTLETS.
   d. INLET PROTECTION FOR EXISTING INLETS WITHIN ROADWAYS.
5. INSTALL THE FOLLOWING EROSION AND SEDIMENTATION CONTROL DEVICES PER THE APPROVED PLAN IN THE FOLLOWING ORDER:
   a. SKIMMER BASINS WITH POROUS BAFFLES AND OUTLET PROTECTION.
   b. RIP RAP BASINS
   c. TEMPORARY DIVERSION DITCHES WITH SPECIFIED LINERS.
   d. STORM DRAINAGE BY-PASS SYSTEM "600" FROM EW-600 TO EW-602. EXCAVATE TRENCH, INSTALL SECTIONS OF PIPE, BACKFILL AND STABILIZE GROUND DISTURBANCE WITHIN ONE WORKING DAY.
6. AFTER TEMPORARY DIVERSION DITCHES, SILT FENCING, AND RIP RAP BASINS ARE IN PLACE; BEGIN INSTALLING THE STREAM DIVERSION/PUMP-AROUND AS SHOWN ON SHEETS C6.104 AND C6.108. FOLLOW THE SEQUENCE BELOW:
   a. INSTALL "AQUA BARRIER" (OR EQUIVALENT) COFFER DAMS AS SHOWN ON THE PLAN
   b. PROVIDE PUMP AND DIVERT PUMPED FLOW THROUGH A FILTER BAG AS SHOWN AND DISCHARGE FLOW DOWNSTREAM OF THE STREAM CROSSING AREA.
   c. MAINTAIN THE ABOVE DEVICES UNTIL THE PERMANENT STREAM CROSSING IS COMPLETE AND STABILIZED.
7. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
8. CLEAR AND GRUB AREA FOR FUTURE CONSTRUCTION. CONTRACTOR TO COORDINATE WITH DEVELOPER TO OBTAIN NECESSARY OFFSITE EASEMENTS.
9. WHEN STAGE 1 CONSTRUCTION IS COMPLETE, CALL WAKE COUNTY ENVIRONMENTAL SERVICES FOR INSPECTION. PROCEED TO STAGE 2.

CONSTRUCTION SEQUENCE - STAGE 2:

1. MAINTAIN DEVICES AS NEEDED IN ACCORDANCE WITH THE NOTES ON THIS SHEET.
2. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 14 DAYS OF INACTIVITY.
3. CONTRACTOR SHALL INSPECT AND REPAIR ALL EROSION CONTROL DEVICES ONCE PER WEEK AND AFTER EVERY RAINFALL EVENT. GRADING ACTIVITY SHALL BE PROHIBITED IN THE AREAS OF THE SEDIMENT CONTROL DEVICES UNTIL THE AREAS UPSTREAM OF THESE DEVICES HAVE BEEN STABILIZED AND APPROVED.
4. BEGIN MASS GRADING OF SITE. AS AREAS ARE BROUGHT UP TO PROPOSED GRADE, STABILIZE SITE WITH VEGETATION. ADJUST DIVERSION DITCHES AS NECESSARY TO MAINTAIN FLOW TO SKIMMER BASINS AND RIP RAP BASINS.
5. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE IN DIVERSION DITCHES AND TO SEDIMENT BASINS AND RIP RAP BASINS AT ALL TIMES THROUGHOUT CONSTRUCTION.
6. INSTALL STORM SEWER, AS SHOWN ON THE PLANS, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS. EXCAVATE TRENCH, INSTALL SECTIONS OF PIPE, BACKFILL AND STABILIZE GROUND DISTURBANCE WITHIN ON WORKING DAY.
7. SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG010000) TO WAKE COUNTY THROUGHOUT THE PROJECT.
8. SEED AND MULCH AREAS DISTURBED ALONG PROJECT PERIMETER AND AREAS DOWNSTREAM OF SEDIMENT BASINS SHALL BE STABILIZED IMMEDIATELY UPON CONSTRUCTION. SEE "SEEDING AND MULCHING" NOTES ON THIS SHEET.
9. ALL OFF-SITE STREETS SHALL BE KEPT CLEAN AS NOTED IN EROSION CONTROL NOTES DURING HAUL OFF OF EXCAVATED MATERIAL.
10. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 14 DAYS OF INACTIVITY.

CONSTRUCTION SEQUENCE - STAGE 3:

1. COMPLETE FINE GRADING OF SITE. CONTINUE TO STABILIZE DISTURBED AREAS WITH VEGETATION AS GRADING IS COMPLETED.
2. INSTALL AND MAINTAIN PERMANENT SLOPE PROTECTION LINERS AS SHOWN ON PLAN.
3. NOTIFY NCDEQ-DEMLR AND WAKE COUNTY E&SC INSPECTOR, A MINIMUM OF 10 DAYS PRIOR TO INITIATING BASIN DEWATERING/REMOVAL SEQUENCE, PER NCG01 PERMIT.
4. SEE BASIN REMOVAL SEQUENCE ON THIS SHEET.
5. PRIOR TO THE REMOVAL, REDUCTION OR CONVERSION OF ANY SEDIMENT BASIN, THE CONTRACTOR IS TO CONTACT THE WAKE COUNTY ENVIRONMENTAL CONSULTANT JEEVAN NEUPANE, PE (919-819-8907). WAKE COUNTY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK
6. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSION, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATERS, SHOULD NOW BE INSTALLED.
7. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR FINAL INSPECTION BY ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.

EROSION CONTROL MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BY THE SITE CONTRACTOR FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.
2. THE SEDIMENT BASINS SHALL BE INSPECTED REGULARLY DURING LAND DISTURBING ACTIVITIES AND AFTER EACH RUNOFF-PRODUCING RAINFALL. SEDIMENT SHALL BE REMOVED AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF EACH BASIN. PORTIONS OF THE BASIN'S GRAVEL FACING THAT ARE CONTAMINATED BY SEDIMENT SHALL BE REPLACED WITH FRESH GRAVEL DURING EACH SEDIMENT REMOVAL EPISODE.
3. SEDIMENT FENCES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED AS NEEDED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAINFALL EVENT, AND TO REDUCE PRESSURE ON THE FENCE. FENCING MATERIALS AND SEDIMENT DEPOSITS SHALL BE REMOVED, AND THE AREA BROUGHT TO GRADE FOLLOWING STABILIZATION OF UPGRADIENT DISTURBED AREAS.
4. DIVERSION DITCHES MUST REMAIN IN PLACE UNTIL PROJECT IS STABILIZED. PERMISSION SHALL BE GIVEN BY THE EROSION CONTROL INSPECTOR FOR REMOVAL UPON COMPLETION OF PERMANENT UPSTREAM STABILIZATION.

BASIN REMOVAL SEQUENCE

1. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
2. WAKE COUNTY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK
3. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
4. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL ENGINEER/CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.

NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

TEMPORARY DIVERSION DITCH DESIGN TABLE

TEMPORARY DIVERSION ID	TD-1	TD-2	TD-3	TD-3A	TD-4	TD-5	TD-6	TD-7	TD-8	TD-9	TD-10	CWD-1
MINIMUM DEPTH (FT)	1.59	1.68	0.84	0.61	1.20	0.61	1.03	1.00	1.63	0.97	1.05	1.29
MINIMUM BOTTOM WIDTH (FT)	1.50	2.00	0.00	0.00	1.00	1.00	0.00	1.50	3.00	2.00	2.00	2.00
CALCULATED VELOCITY (FT/S)	5.32	5.06	2.72	2.91	6.01	5.42	2.56	5.36	7.44	6.35	6.80	6.12
ALLOWABLE VELOCITY (FT/S)	8.00	8.00	5.00	5.00	9.00	9.00	5.00	9.00	9.00	9.00	9.00	10.00
CALCULATED SHEAR STRESS (LB/SF)	1.91	1.64	0.86	1.16	2.92	2.28	0.64	2.53	2.76	3.29	3.56	2.10
ALLOWABLE SHEAR STRESS (LB/SF)	2.00	2.00	1.60	1.60	**6	2.30	1.60	**6	2.80	**6	**6	2.30
TEMP LINER SPECIFICATION*	ERONET SC150	ERONET SC150	ERONET S75	ERONET S75	ERONET P300	ERONET C125	ERONET S75	ERONET P300	ERONET P300	ERONET P300	ERONET P300	ERONET C125
PERMANENT LINER SPECIFICATION*	VMAX SC250	ERONET P300	N/A	N/A	ERONET P300	ERONET P300	N/A	ERONET P300	VMAX SC250	ERONET P300	ERONET P300	VMAX SC250

*ALL SPECIFICATIONS ARE "NORTH AMERICAN GREEN" ROLLMAX PRODUCTS OR APPROVED EQUAL
** ALLOWABLE SHEAR STRESS BASED ON PARTIALLY VEGETATED CONDITION FOR TEMPORARY LINER

SEDIMENT BASIN DESIGN TABLE

SEDIMENT TRAP ID	SB-A	SB-B	SB-G	SB-1	SB-2
Q10 (CFS)	111.6	118	37.1	34.3	6.64
BOTTOM LENGTH (FT)	N/A	N/A	N/A	165	67
BOTTOM WIDTH (FT)	N/A	N/A	N/A	82	33
SEDIMENT DEPTH (FT)	5	5.5	5	2	2
FREEBOARD (from sediment depth) (FT)	2	2.5	2	1.5	1.5
DEPTH TO CREST OF SPILLWAY (FT)	5	5.5	5	2	2
SIDESLOPES	3:1	3:1	3:1	2:1	2:1
SPILLWAY LENGTH (FT)	24	24	16	34	10
HEIGHT OF BERM (FT)	7	8	7	3.5	3.5
TOP OF TRAP LENGTH (FT)	N/A	N/A	N/A	179	81
TOP OF TRAP WIDTH (FT)	N/A	N/A	N/A	96	47
STORAGE VOLUME REQUIRED (CF)	55,044	60,552	23,688	15,768	3,312
STORAGE VOLUME PROVIDED (CF)	209,959	370,547	104,630	29,080	5,270
SEDIMENT SURFACE AREA REQUIRED (SF)	48,530	51,340	16,120	14,910	2,890
SEDIMENT SURFACE AREA PROVIDED (SF)	48,560	77,224	26,835	15,570	3,080
DRAINAGE AREA (AC)	34.88	47.66	13.88	10.36	1.84
DISTURBED AREA (AC)	34.88	47.66	13.88	10.36	1.84

SKIMMER DESIGN TABLE

TRAP ID	DRAWDOWN	SKIMMER
SB-A	4 DAYS	1 - 4 INCH SKIMMER WITH A 3.3 INCH ORIFICE
SB-B	4 DAYS	1 - 4 INCH SKIMMER WITH A 3.5 INCH ORIFICE
SB-G	4 DAYS	1 - 2.5 INCH SKIMMER WITH A 2.4 INCH ORIFICE
SB-1	4 DAYS	1 - 2.0 INCH SKIMMER WITH A 1.9 INCH ORIFICE
SB-2	4 DAYS	1 -1.5 INCH SKIMMER WITH A 1.0 INCH ORIFICE

Notes:
1. Side slopes pertain only for the vertical height from the base to the top of berm, 2H:1V above that.
2. See details regarding skimmer design specifications
3. See details on silt fence baffle spacing.

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE CARRIED OUT IMMEDIATELY BEHIND CONSTRUCTION IN ACCORDANCE WITH FOLLOWING SPECIFICATIONS.

SEEDING SPECIFICATIONS
SHOULDER, SIDE DITCHES, SLOPES (MAX 3:1)

SEEDING PERIOD	TYPE	APPLICATION RATE PER ACRE	APPLICATION RATE PER 1000 SF
AUGUST 15 - NOVEMBER 1	TALL FESCUE	300#	7#
NOVEMBER 1 - MARCH 1	TALL FESCUE AND	300#	7#
	ABRUZZI RYE	25#	0.6#
MARCH 1 - APRIL 15	TALL FESCUE	300#	7#
APRIL 15 - JUNE 30	HULLED COMMON BERMUDAGRASS	25#	0.6#
JULY 1 - AUGUST 15	TALL FESCUE AND	120#	2.8#
	*BROWNTOP MILLET	35#	0.8#
	*OR SORHGUM-SUDAN HYBRIDS	30#	0.7#

SEEDING SPECIFICATIONS
SLOPES (3:1 TO 2:1)

SEEDING PERIOD	TYPE	APPLICATION RATE PER ACRE	APPLICATION RATE PER 1000 SF
MARCH 1 - JUNE 1	SERICEA LESPEDEZA (SCARIFIED)	50#	1.2#
	AND		
MARCH 1 - APRIL 15	ADD TALL FESCUE	120#	2.8#
MARCH 1 - JUNE 30	OR ADD WEEPING LOVE GRASS	10#	0.2#
MARCH 1 - JUNE 30	OR ADD HULLED COMMON BERMUDAGRASS	25#	0.6#
JUNE 1 - SEPTEMBER 1	*TALL FESCUE AND	120#	2.8#
	*OR BROWNTOP MILLET	35#	0.8#
	*OR SORGHUM-SUDAN HYBRIDS	30#	0.7#
SEPTEMBER 1 - MARCH 1	SERICEA LESPEDEZA (UNHULLED, UNSCARIFIED)	70#	1.6#
	AND TALL FESCUE	120#	2.8#
NOVEMBER 1 - MARCH 1	ADD ABRUZZI RYE	25#	0.6#

*TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW TO MORE THAN 12 INCHES HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

CONSULT WAKE SOIL AND WATER CONSERVATION DISTRICT OR NORTH CAROLINA DIVISION OF SOIL AND WATER CONSERVATION FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE THAT DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS,IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6-INCH DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLE SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLE UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60 PERCENT DAMAGED, RE-ESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT WAKE SOIL AND WATER CONSERVATION DISTRICT ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

* APPLY:

AGRICULTURAL LIMESTONE	- 2 TONS/ACRE (3/TONS/ACRES IN CLAY SOILS)
FERTILIZER	- 1000 LB/ACRE -10-10-10
SUPERPHOSPHATE	- 500 LB/ACRE - 20 PERCENT ANALYSIS
MULCH	- 2 TONS/ACRE - SMALL GRAIN STRAW
ANCHOR	- ASPHALT EMULSION @ 300 GALS/ACRE

DISTURBED AREA = 101.96 AC.

ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE TOWN OF ROLESVILLE AND WAKE COUNTY SPECIFICATIONS AND DETAILS.

Know what's below. Call before you dig.

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

MCADAMS
The John R. McAdams Company, Inc.
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PHONE: 919. 239. 9486

AGNC BROKERAGE | CONSULTING | PLANNING

PEARCE FARM - PHASES 1-3
CONSTRUCTION DRAWINGS - PACKAGE 1
BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22630 WILLIAM T. O'DANIEL
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AWH20000-CD-PKG-02-EC4
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	12. 02. 2024

SHEET

EROSION CONTROL NOTES
C6.000

X:\Projects\AGN\AGN23001\04-Production\Engineering\Construction Drawings\Current Drawings\AGN23001-EC4.dwg, 3/25/2025 12:33:55 PM, Sherrill Williams

EROSION CONTROL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF ROLESVILLE AND WAKE COUNTY STANDARDS, SPECIFICATIONS AND DETAILS.
2. GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE WAKE COUNTY SOIL AND EROSION CONTROL STANDARDS AND SPECIFICATIONS.
3. GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES DIVISION OF WATER RESOURCES (DWR) STANDARDS AND SPECIFICATIONS. WHERE DIFFERENT FROM WAKE COUNTY STANDARDS, THE MORE STRINGENT METHOD SHALL BE APPLIED.
4. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY EITHER THE COUNTY EROSION CONTROL DEPARTMENT OR THE DWR.
5. CONTRACTOR SHALL SEED AND STABILIZE ALL STEEP SLOPES (GREATER THAN 2H:1V) WITHIN 7 DAYS, 10 DAYS FOR MODERATE SLOPES (3H:1V OR GREATER) AND WITHIN 14 CALENDAR DAYS EVERYWHERE ELSE (STATE LAW 2009-486).
6. FOR ANY LAND-DISTURBING ACTIVITY WHERE GRADING ACTIVITIES HAVE BEEN COMPLETED, TEMPORARY OR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER COMPLETING THE WORK. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE ON THE PLAN.
7. NO DEBRIS SHALL BE TRACKED ONTO PUBLIC RIGHT OF WAY. IF THE SITUATION OCCURS WHERE MUD, ROCK AND DEBRIS IS TRACKED ONTO PAVEMENT, THE CONTRACTOR SHALL CLEAN THE PAVEMENT AND INSTALL ADDITIONAL MEASURES TO PREVENT THE FUTURE OCCURRENCE.
8. THERE SHALL BE NO DISTURBANCE OR RE-COMPACTION WITHIN AREAS DESIGNATED FOR THE TREE PRESERVATION AND PROTECTION FENCING, INCLUDING BUT NOT LIMITED TO STOCKPILING OF CONSTRUCTION OR OTHER MATERIALS, TRAFFIC, OR BORING SAMPLES.
9. THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES.
10. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR AN INSPECTION BY WAKE COUNTY SEDIMENTATION AND EROSION CONTROL (SEC) ONCE INITIAL MEASURES ARE IN PLACE.
11. CONTRACTOR SHALL CONTACT EROSION CONTROL INSPECTOR AFTER INITIAL E&SC MEASURE INSTALLATION FOR THE CERTIFICATE OF COMPLIANCE INSPECTION.
12. CONTRACTOR SHALL INSPECT ALL SEDIMENT / EROSION CONTROL DEVICES AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
13. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
14. CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
15. ONCE THE SITE IS STABILIZED AND E&SC MEASURES REMOVED, THE CONTRACTOR SHALL CONTACT THE EROSION CONTROL INSPECTOR FOR A CERTIFICATE OF COMPLETION INSPECTION.
16. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
17. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY/COUNTY ENGINEERING DEPARTMENT AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
18. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND A TREE, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA AND SHALL BE POSTED ON THE PROTECTION FENCE. A PROTECTION FENCE CONSTRUCTED OF MATERIAL RESISTANT TO DEGRADATION BY SUN, WIND, AND MOISTURE FOR THE DURATION OF THE CONSTRUCTION, SHALL BE INSTALLED AT THE SAME TIME AS THE EROSION CONTROL MEASURES AND SHALL BE IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
19. A CONSTRUCTION SEQUENCE HAS BEEN PROVIDED. INSTALLATION OF ALL PROPOSED SEDIMENTATION & EROSION CONTROL MEASURES IN THE SEQUENCE(S) PROVIDED AND MAINTENANCE OF THOSE DEVICES IS REQUIRED. THE CONTRACTOR MAY BE ALLOWED, WITH PRIOR APPROVAL FROM THE OWNER, TO COORDINATE CHANGES TO THE PLAN WITH THE ON-SITE SEDIMENTATION & EROSION CONTROL INSPECTOR AND THE ENGINEER.
20. CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE RELIEF FROM CONCENTRATED FLOWS.
21. TEMPORARY DIVERSIONS SHALL BE MAINTAINED DAILY BY CONTRACTOR SO THAT THEY ARE FUNCTIONAL AT THE END OF EACH WORKDAY AND WHEN STOPPING WORK FOR RAIN.
22. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
23. DISTURBANCE OUTSIDE OF THE SITE PROPERTY LIMITS OR PUBLIC RIGHT-OF-WAY SHALL ONLY BE AS ALLOWED BY SIGNED GRADING AGREEMENTS AND/OR EASEMENTS BETWEEN THE DEVELOPER AND THE OFFSITE PROPERTY OWNER.
24. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE OPEN ACCESS TO ALL PROPERTIES ALONG ADJACENT PROPERTIES DURING CONSTRUCTION PERIOD FOR IMPROVEMENTS.

EROSION CONTROL MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BY THE SITE CONTRACTOR FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.
2. SEDIMENT FENCES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED AS NEEDED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAINFALL EVENT, AND TO REDUCE PRESSURE ON THE FENCE. FENCING MATERIALS AND SEDIMENT DEPOSITS SHALL BE REMOVED, AND THE AREA BROUGHT TO GRADE FOLLOWING STABILIZATION OF UPGRADIENT DISTURBED AREAS.
3. DIVERSION DITCHES MUST REMAIN IN PLACE UNTIL PROJECT IS STABILIZED. PERMISSION SHALL BE GIVEN BY THE EROSION CONTROL INSPECTOR FOR REMOVAL UPON COMPLETION OF PERMANENT UPSTREAM STABILIZATION.

SEEDING AND MULCHING

1. SEEDING AND MULCHING SHALL BE CARRIED OUT IMMEDIATELY BEHIND CONSTRUCTION.
2. DENUDED AREAS OF JURISDICTIONAL POND BED TO BE SEEDED WITH MELLOW MARSH FARMS WETLAND MIX OR ENGINEER APPROVED EQUIVALENT.
3. CONSULT WAKE SOIL AND WATER CONSERVATION DISTRICT OR NORTH CAROLINA DIVISION OF SOIL AND WATER CONSERVATION FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS.
4. SIDE SLOPES OF THE BREACH SECTION AND OTHER AREAS REQUIRING STABILIZATION OUTSIDE OF THE JURISDICTIONAL POND BED SHALL BE SEEDED ACCORDING TO THE FOLLOWING SPECIFICATIONS.

SEEDING SPECIFICATIONS		
SHOULDER, SIDE DITCHES, SLOPES (MAX 3:1)		
SEEDING PERIOD	TYPE	APPLICATION RATE
		PER ACRE
AUGUST 15 - NOVEMBER 1	TALL FESCUE	300#
NOVEMBER 1 - MARCH 1	TALL FESCUE AND	300#
	ABRUZZI RYE	25#
MARCH 1 - APRIL 15	TALL FESCUE	300#
APRIL 15 - JUNE 30	HULLED COMMON BERMUDAGRASS	25#
JULY 1 - AUGUST 15	TALL FESCUE AND	120#
	*BROWNTOP MILLET	35#
	*OR SORHGUM-SUDAN HYBRIDS	30#

SEEDING SPECIFICATIONS		
SLOPES (3:1 TO 2:1)		
SEEDING PERIOD	TYPE	APPLICATION RATE
		PER ACRE
MARCH 1 - JUNE 1	SERICEA LESPEDEZA (SCARIFIED)	50#
	AND	
MARCH 1 - APRIL 15	ADD TALL FESCUE	120#
MARCH 1 - JUNE 30	OR ADD WEEPING LOVE GRASS	10#
MARCH 1 - JUNE 30	OR ADD HULLED COMMON BERMUDAGRASS	25#
JUNE 1 - SEPTEMBER 1	*TALL FESCUE AND	120#
	*OR BROWNTOP MILLET	35#
	*OR SORGHUM-SUDAN HYBRIDS	30#
SEPTEMBER 1 - MARCH 1	SERICEA LESPEDEZA (UNHULLED, UNSCARIFIED)	70#
	AND TALL FESCUE	120#
NOVEMBER 1 - MARCH 1	ADD ABRUZZI RYE	25#

SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS,IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6-INCH DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLE SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLE UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60 PERCENT DAMAGED, RE-ESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT WAKE SOIL AND WATER CONSERVATION DISTRICT ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

APPLY:	AGRICULTURAL LIMESTONE	- 2 TONS/ACRE (3/TONS/ACRES IN CLAY SOILS)
	FERTILIZER	- 1000 LB/ACRE -10-10-10
	SUPERPHOSPHATE	- 500 LB/ACRE - 20 PERCENT ANALYSIS
	MULCH	- 2 TONS/ACRE - SMALL GRAIN STRAW
	ANCHOR	- ASPHALT EMULSION @ 300 GALS/ACRE

NOTE: THE ABOVE SEEDBED PREPARATION ABOVE REFERS ONLY TO AREAS OUTSIDE OF THE JURISDICTIONAL POND BED. NO EQUIPMENT IS TO BE USED ON THE JURISDICTIONAL POND BED FOR THE SEEDBED PREPARATION OR THE SEEDING PROCESS OF THE DENUDED AREAS OF THE POND. SIMILARLY, THE AREA IS NOT TO BE MOWN AFTER SEEDING. THE DENUDED JURISDICTIONAL POND BED SHALL BE SEEDED WITHOUT THE USE OF EQUIPMENT AND LEFT TO STABILIZE NATURALLY.

GENERAL NOTES AND CONSTRUCTION SEQUENCE

1. OBTAIN GRADING PERMIT FROM THE WAKE COUNTY ENVIRONMENTAL SERVICES DEPARTMENT.
2. PRIOR TO THE START OF CONSTRUCTION, SCHEDULE A SITE INSPECTION THROUGH THE WAKE COUNTY PERMIT PORTAL.
3. LOCATION SHOWN OF BREACH SECTION AND GEOMETRY OF BREACH SECTION SHOWN IS APPROXIMATE. FINAL DETERMINATION OF BREACH LOCATION AND SECTION TO BE DETERMINED IN THE FIELD WITH THE OWNER, THE CONTRACTOR, THE TOWN OF ROLESVILLE, WAKE COUNTY, AND ENVIRONMENTAL PROGRAMS STAFF. JOSEPH THREADCRAFT WITH THE WAKE COUNTY ENVIRONMENAL SERVICES DEPARTMENT AND BILL DENTON WITH NCDEQ-DEMLR (919.791.4206) SHALL BE CONTACTED IN ADVANCE OF DEWATERING.
4. GENERAL CONSTRUCTION SEQUENCE PRESENTED BELOW IS A GUIDELINE FOR BREACHING THE DAM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY BREACHING THE DAM AND AVOIDING MIGRATION OF SEDIMENT OFF-SITE.
5. CONTRACTOR SHALL NOT BEGIN CONSTRUCTION IF RAIN IS FORECASTED BEFORE THE ESTIMATED COMPLETION DATE OF THE BREACH CONSTRUCTION.
6. INSTALL SEDIMENT AND EROSION CONTROL MEASURES AS APPROPRIATE (SILT FENCE, ETC.). SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DISTURBED SLOPES. CONTRACTOR RESPONSIBLE FOR MAINTAINING SILT FENCE AND SILT FENCE OUTLETS. OUTLETS SHOWN ARE GENERAL LOCATIONS - CONTRACTOR RESPONSIBLE TO INSTALL AT LOW POINTS AS THEY EXIST OR ARISE. CONTRACTOR TO INSTALL APPROPRIATE SEDIMENTATION AND EROSION CONTROL MEASURES AS NEW AREAS ARE EXPOSED.
7. DRAIN EXISTING POND WITH TEMPORARY SIPHON SYSTEM, PUMP, OR OTHER MEANS APPROVED BY THE DESIGN ENGINEER IN SUCH A WAY TO AVOID RELEASING SEDIMENT FROM POND. POND SHALL BE PUMPED SO AS TO DECREASE WATER SURFACE ELEVATION IN THE POND AT A SPEED OF APPROXIMATELY 1 FOOT PER DAY. POND TO BE COMPLETELY DRAINED BEFORE DAM EMBANKMENT IS BREACHED. THE POND SHALL NOT BE DRAINED BY BREACHING THE DAM. OUTLET OF DRAIN FROM SIPHON OR PUMP TO EXIT INTO DEWATERING STRUCTURE (FILTER BAG TYPE SPECIAL STILLING BASIN) PER DETAIL. NOTE THAT A PUMP MAY BE REQUIRED DURING CONSTRUCTION TO PASS THE BASEFLOW.
8. ONCE POND IS COMPLETELY DRAINED, EVALUATE POND DEPTH AND BREACH SECTION LOCATION. CONTRACTOR AND OWNER TO DECIDE FINAL LOCATION OF BREACH SECTION AND GEOMETRY BASED ON FIELD CONDITIONS AND COMMUNICATION WITH THE TOWN OF ROLESVILLE AND ENVIRONMENTAL PROGRAMS STAFF. DAM TO BE BREACHED AT THE LOWEST POSSIBLE POINT AS TO NOT IMPOUND ANY WATER AFTER THE FINAL BREACH SECTION IS STABILIZED. THE LOCATION OF THE BREACH AND ASSOCIATED DISTURBANCE MUST REMAIN WITHIN THE PERMITTED LIMITS OF DISTURBANCE.
9. PROPOSED CUT SLOPES FOR THE BREACH OF THE DAMS ARE SHOWN AT 3(H):1(V). ALL OSHA REQUIREMENTS FOR EXCAVATIONS (SHORING, DEPTH, ETC.) ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN TO BE SEALED BY A NC P.E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF AN EXCAVATION PLAN IS REQUIRED. THE JOHN R. MCADAMS COMPANY ASSUMES NO RESPONSIBILITY FOR ANY EXCAVATION DESIGN RELATED TO SAFETY OR OSHA REQUIREMENTS.
10. AN IMPERVIOUS LINER (MIRAFI FW402 OR ENGINEER APPROVED EQUIVALENT) SHALL BE INSTALLED IN THE BREACH CHANNEL DURING PAUSES IN CONSTRUCTION WHILE THE BREACH CHANNEL HAS NOT BEEN COMPLETED (I.E. EROSION CONTROL MEASURES INSTALLED). AN IMPERVIOUS LINER SHALL NOT BE PRESENT IN THE FINAL CONDITION OF THE BREACH CHANNEL.
11. BREACH EXISTING DAM PER GEOMETRY SHOWN. DISPOSE OF REMOVED DAM EMBANKMENT MATERIAL IN STOCKPILE AREA AS SHOWN (APPROXIMATELY 6' IN HEIGHT). INSTALL SEDIMENT AND EROSION CONTROL MEASURES FOR REMOVED EMBANKMENT MATERIAL BEFORE PLACEMENT OF MATERIAL.
12. INSTALL SEDIMENT AND EROSION CONTROL MEASURES ASSOCIATED WITH THE FINAL GEOMETRY OF THE BREACH SECTION (BAFFLES, FILTER BERM, ETC.). CONTRACTOR TO INSTALL APPROPRIATE SEDIMENTATION AND EROSION CONTROL MEASURES AS NEW AREAS ARE EXPOSED.
13. NO GRADING SHALL BE DONE WITHIN THE DEWATERED JURISDICTIONAL POND BED, ASIDE FROM THAT WHICH IS NECESSARY TO BREACH THE DAM. CHANNEL SHALL FORM NATURALLY THROUGH THE DEWATERED POND BED.
14. STABILIZE BREACH SECTION PER GEOMETRY AND SPECIFICATIONS ON THIS SHEET. SEED AND MULCH THE POND BOTTOM. PLACE TEMPORARY COIR BAFFLE PERPENDICULAR TO THE FLOW OF WATER ALONG THE BOTTOM OF BREACH SECTION (REMOVE BAFFLES ONCE THE GRASS ON THE POND BOTTOM HAS GERMINATED). SIDE SLOPES AND BOTTOM OF BREACH SECTION TO BE STABILIZED WITH TURF GRASS SEED AND EXCELSIOR MATTING AS NEEDED. REMOVED DAM EMBANKMENT MATERIAL TO BE STABILIZED WITH TURF GRASS SEED. NO TURF OR MATTING MAY BE USED ON THE JURISDICTIONAL POND BED.
15. ONCE BREACH SECTION AND SITE STOCKPILE AREA ARE STABILIZED, REQUEST FINAL SITE INSPECTION THROUGH THE WAKE COUNTY PERMIT PORTAL. UPON APPROVAL OF MUNICIPAL STAFF, REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES, INCLUDING FILTER BERM, AND DISPOSE OF IN A PROPER MANNER.
16. TREE PROTECTION FENCING TO BE USED TO DENOTE LIMITS OF DISTURBANCE. COMBINATION SILT FENCE / TREE PROTECTION CAN BE USED AS INDICATED IN AREAS DENOTED AS REQUIRING SILT FENCE PROTECTION.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

MCADAMS

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PHONE: 919. 239. 9486

AGNC
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PEARCE FARM - PHASES 1-3
CONSTRUCTION DRAWINGS - PACKAGE 1
BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

NORTH CAROLINA PROFESSIONAL SEAL 054404 ENGINEER MARIA C. TORRES
NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-N1
CHECKED BY	MCT
DRAWN BY	CSB
SCALE	N.T.S.
DATE	12. 02. 2024

SHEET

DAM BREACH CONSTRUCTION NOTES

C6.001

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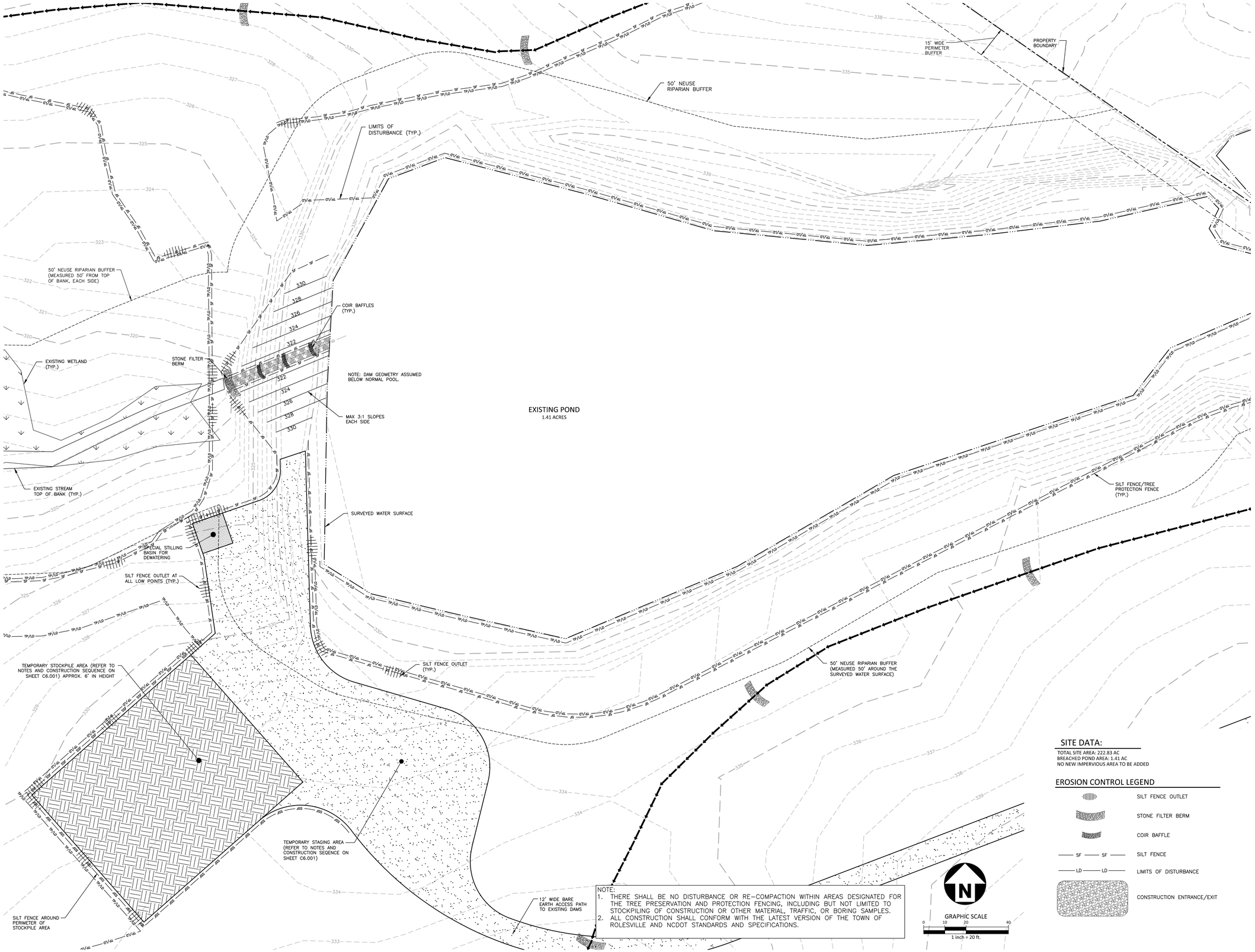

NOTE:
1. THERE SHALL BE NO DISTURBANCE OR RE-COMPACTION WITHIN AREAS DESIGNATED FOR THE TREE PRESERVATION AND PROTECTION FENCING, INCLUDING BUT NOT LIMITED TO STOCKPILING OF CONSTRUCTION OR OTHER MATERIAL, TRAFFIC, OR BORING SAMPLES.
2. ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.

SITE DATA:

TOTAL SITE AREA: 222.83 AC
BREACHED POND AREA: 1.41 AC
NO NEW IMPERVIOUS AREA TO BE ADDED

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- STONE FILTER BERM
- COIR BAFFLE
- SF — SF — SILT FENCE
- LD — LD — LIMITS OF DISTURBANCE
- CONSTRUCTION ENTRANCE/EXIT

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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AGNC BROKERAGE | CONSULTING | PLANNING

PEARCE FARM - PHASES 1-3
CONSTRUCTION DRAWINGS - PACKAGE 1
BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

NORTH CAROLINA PROFESSIONAL SEAL 054404 ENGINEER MARIA C. TORRES
NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-EC1
CHECKED BY	MCT
DRAWN BY	CSB
SCALE	1" = 20'
DATE	12. 02. 2024

SHEET

DAM BREACH PLAN

C6.002

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EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SILT FENCE
- TP — TREE PROTECTION FENCE
- LD — LIMITS OF DISTURBANCE
- TP/LD — TREE PROTECTION FENCE/ LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT (50'x25' MIN.)

SEE SHEET C6.000 FOR ALL EROSION CONTROL NOTES, CONSTRUCTION SEQUENCING, SEDIMENT BASIN AND TEMPORARY DIVERSION DITCH DATA, AND SEEDING SPECIFICATIONS

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

GRAPHIC SCALE
0 75 150 300
1 inch = 150 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

MCADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

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CLIENT

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
CONTACT: JACOB ANDERSON
PHONE: 919. 239. 9486

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PEARCE FARM - PHASES 1-3
CONSTRUCTION DRAWINGS - PACKAGE 1
BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL
NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-EC1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=150'
DATE	12. 02. 2024

SHEET

OVERALL
EROSION CONTROL PLAN
STAGE 1

C6.100

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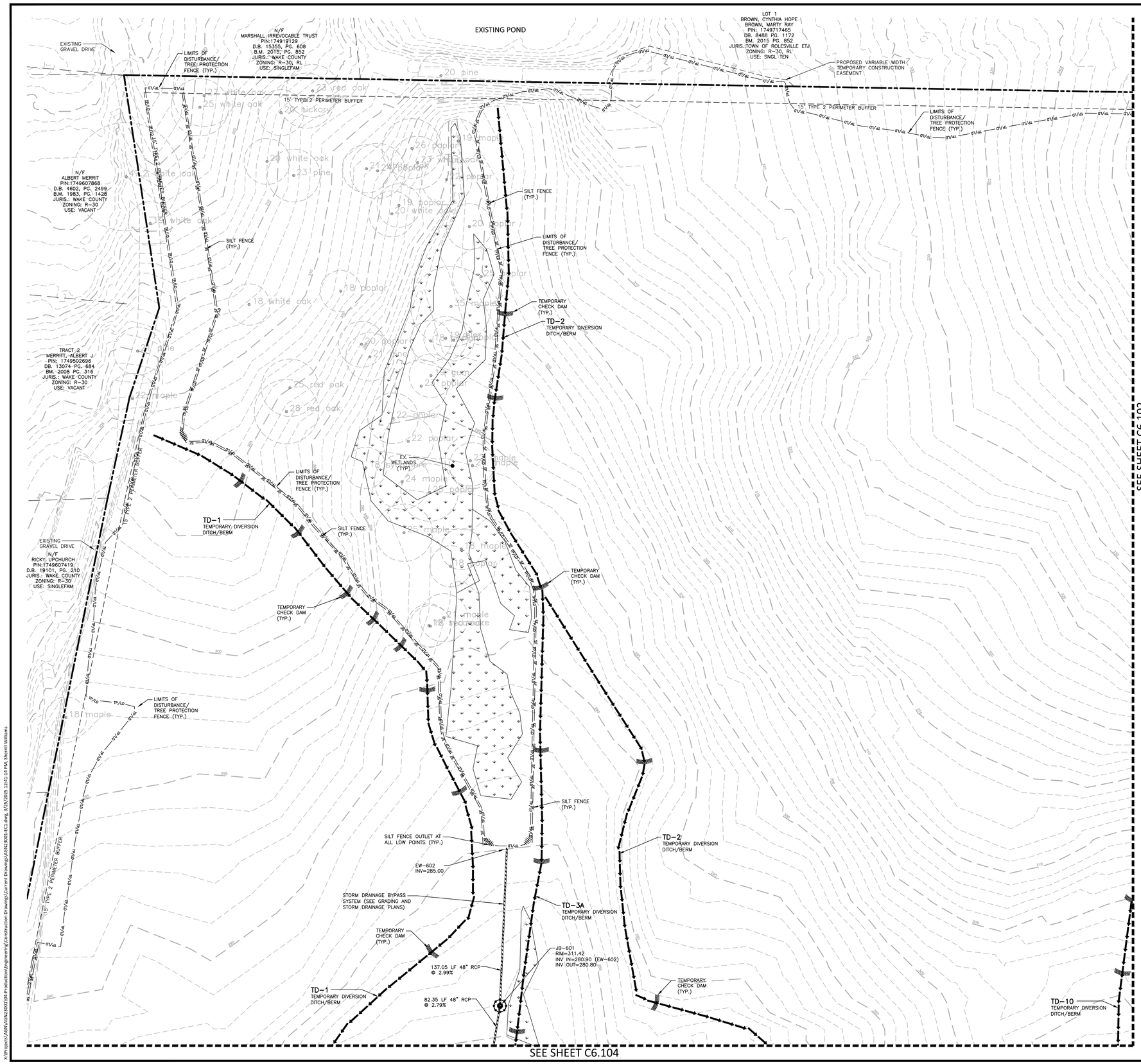

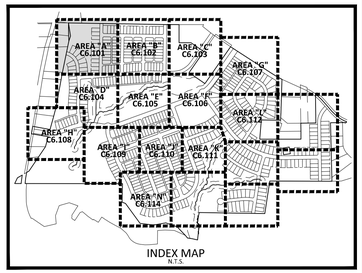

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0 20 40 80
1 inch = 40 ft.

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PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-EC1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 AREA "A"

C6.101

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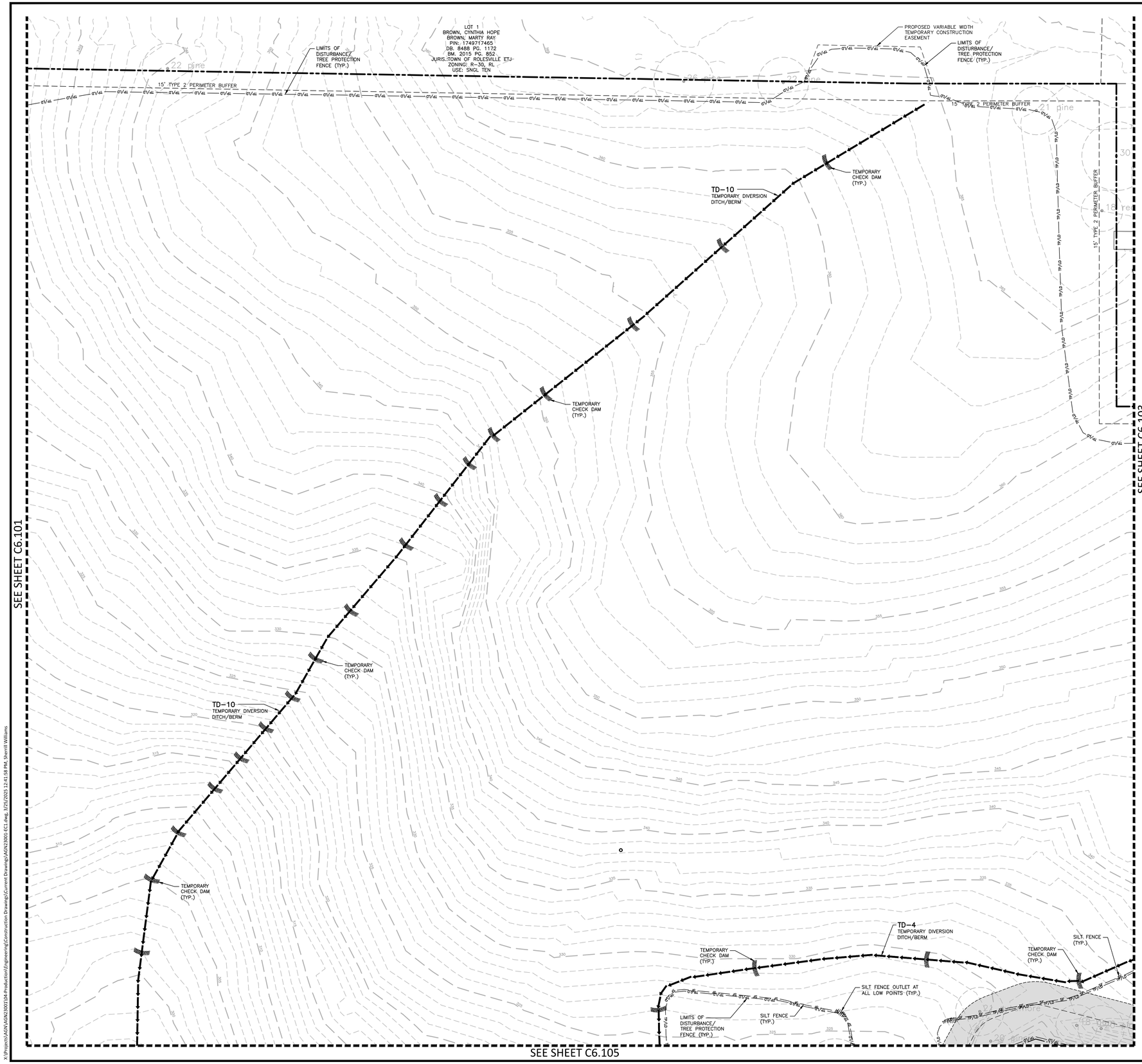

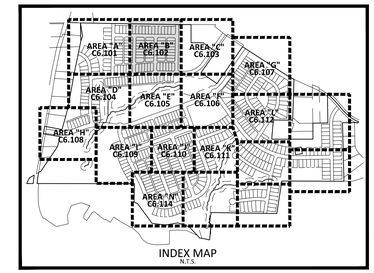

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CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 AREA "B"

C6.102

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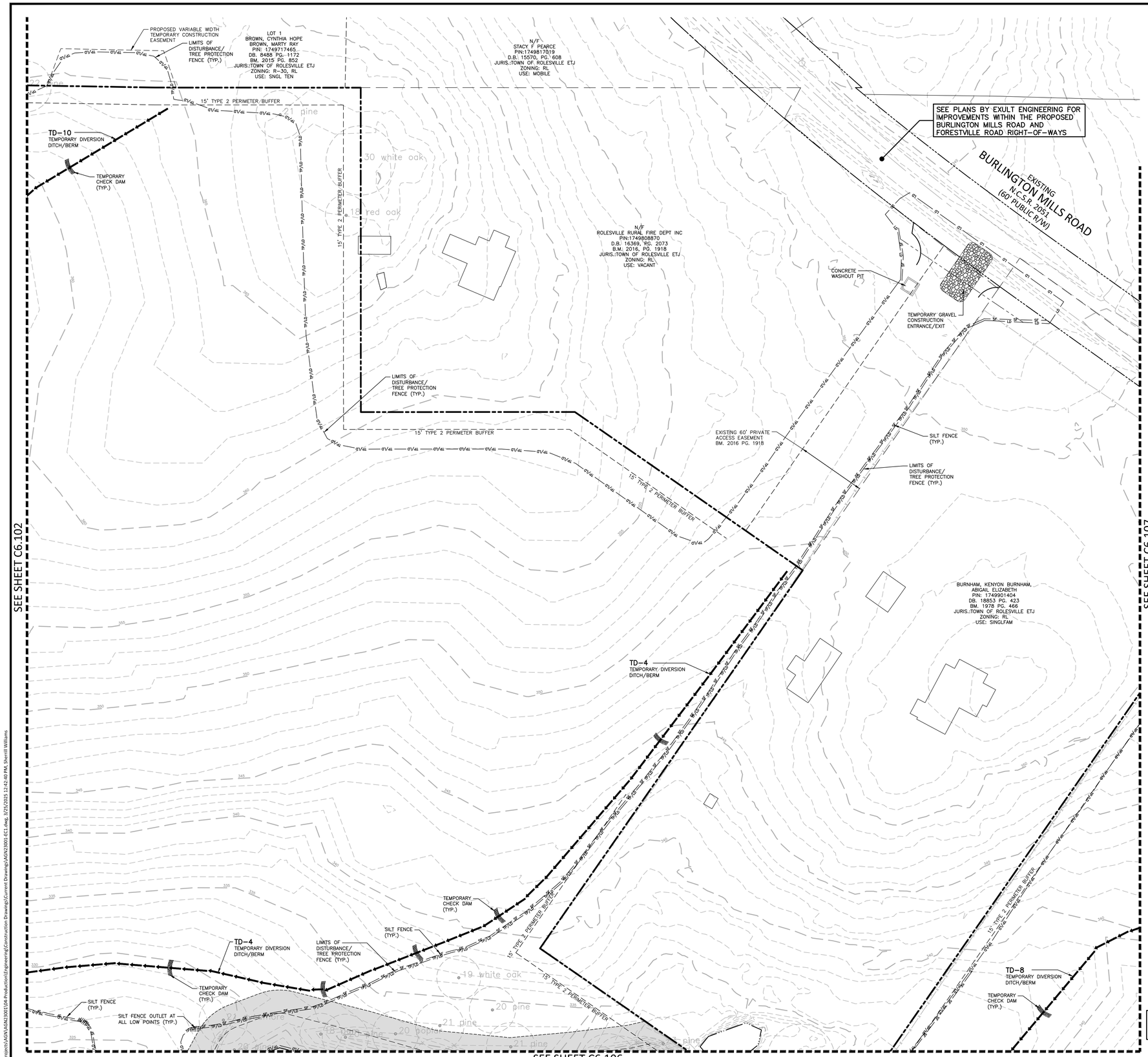

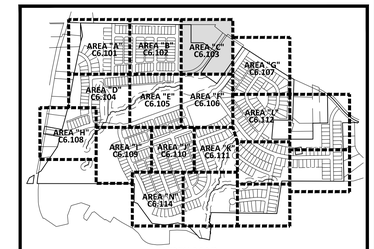

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GRAPHIC SCALE
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1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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PROJECT NO.	AGN23001
FILENAME	AGN23001-EC1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 AREA "C"

C6.103

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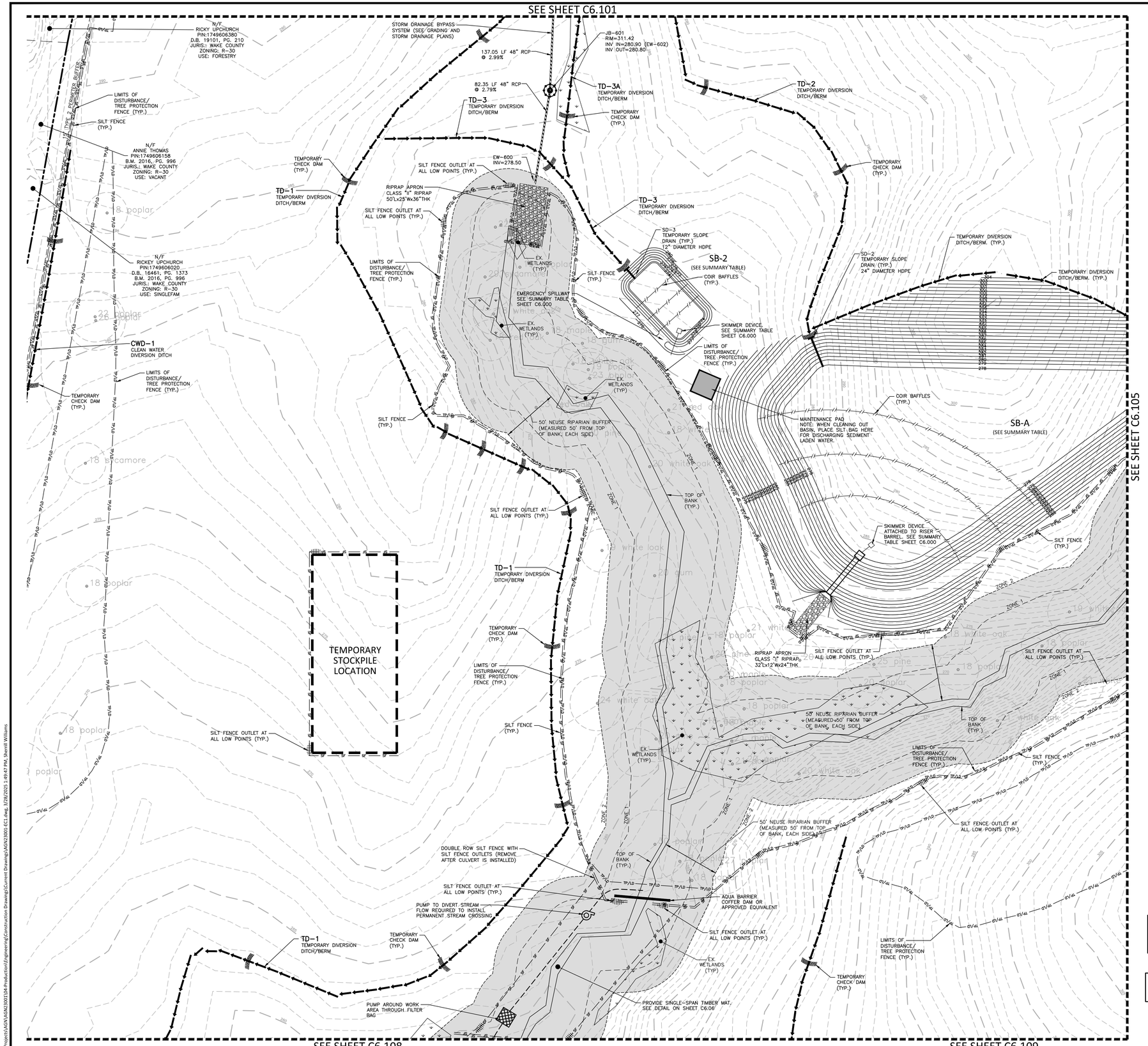

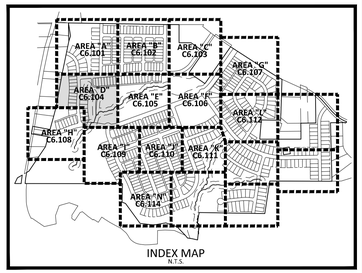

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- TP/LD — TP/LD — TREE PROTECTION FENCE/ LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT (50'x25' MIN.)

PUMP AROUND NOTE:
CULVERT INSTALLATION OPERATIONS SHALL BE CONDUCTED DURING DURING RELATIVELY DRY PERIODS WHEN HEAVY RAINFALLS ARE NOT EXPECTED DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PROVIDE AT LEAST A 2"-3" PUMP THAT WILL CONVEY AT LEAST 140.0 GPM, WHICH IS THE APPROXIMATE BASE FLOW OF THE STREAM. THE PUMP SHALL ALSO BE CAPABLE OF CONVEYING THE REQUIRED FLOW WITH 5-FEET STATIC HEAD. CONTRACTOR SHALL SUBMIT PUMP SPECIFICATIONS TO THE ENGINEER FOR APPROVAL.

SEE SHEET C6.000 FOR ALL EROSION CONTROL NOTES, CONSTRUCTION SEQUENCING, SEDIMENT BASIN AND TEMPORARY DIVERSION DITCH DATA, AND SEEDING SPECIFICATIONS

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GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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PROJECT NO.	AGN23001
FILENAME	AGN23001-EC1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 AREA "D"

C6.104

X:\Projects\AGN\AGN23001\04-Production\Engineering\Construction Drawings\Current Drawings\AGN23001-EC1.dwg, 3/28/2025 1:49:47 PM, Sherrill Williams

SEE SHEET C6.102

SEE SHEET C6.104

SEE SHEET C6.106

SEE SHEET C6.110

TD-10
TEMPORARY DIVERSION DITCH/BERM

TD-4
TEMPORARY DIVERSION DITCH/BERM

TEMPORARY CHECK DAM (TYP.)

SILT FENCE (TYP.)

SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)

LIMITS OF DISTURBANCE/ TREE PROTECTION FENCE (TYP.)

TEMPORARY DIVERSION DITCH/BERM. (TYP.)

SD-10
TEMPORARY SLOPE DRAIN (TYP.)
15" DIAMETER HDPE

SD-4
TEMPORARY SLOPE DRAIN (TYP.)
24" DIAMETER HDPE

SB-A
(SEE SUMMARY TABLE)

COIR BAFFLES (TYP.)

EX. WETLANDS (TYP.)

TOP OF BANK (TYP.)

ZONE 1

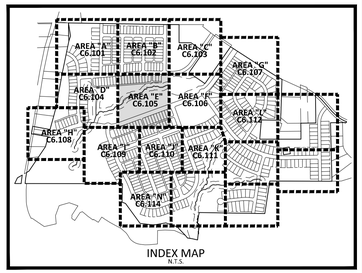
ZONE 2

EXISTING POND DAM TO BE BREACHED (SEE DAM BREACH PLANS, SHEETS C6.001-C6.003)

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

TD-8
TEMPORARY DIVERSION DITCH/BERM

TEMPORARY CHECK DAM (TYP.)



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GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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FILENAME	AGN23001-EC1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 AREA "E"

C6.105

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SEE SHEET C6.103

SEE SHEET C6.105

SEE SHEET C6.107

SEE SHEET C6.110

SEE SHEET C6.111

EXISTING POND
DAM TO BE BREACHED
(SEE DAM BREACH PLANS,
SHEETS C6.001-C6.003)

ZONE 1

ZONE 2

LIMITS OF DISTURBANCE/ TREE PROTECTION FENCE (TYP.)

BURNHAM, KENYON BURNHAM, ABIGAIL ELIZABETH
PIN: 9749901404
DB. 18853 PG. 423
BM. 1978 PG. 466
JURIS.:TOWN OF ROLESVILLE ETJ
ZONING: RL
USE: SINGLFAM

SILT FENCE (TYP.)

TEMPORARY CHECK DAM (TYP.)

TD–8
TEMPORARY DIVERSION DITCH/BERM

TEMPORARY STOCKPILE LOCATION

SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

SILT FENCE (TYP.)

TD–8
TEMPORARY DIVERSION DITCH/BERM

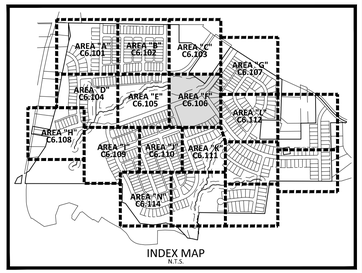
TEMPORARY CHECK DAM (TYP.)

SILT FENCE (TYP.)

LIMITS OF DISTURBANCE/ TREE PROTECTION FENCE (TYP.)

TD–9
TEMPORARY DIVERSION DITCH/BERM

TEMPORARY CHECK DAM (TYP.)



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DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 AREA "F"

C6.106

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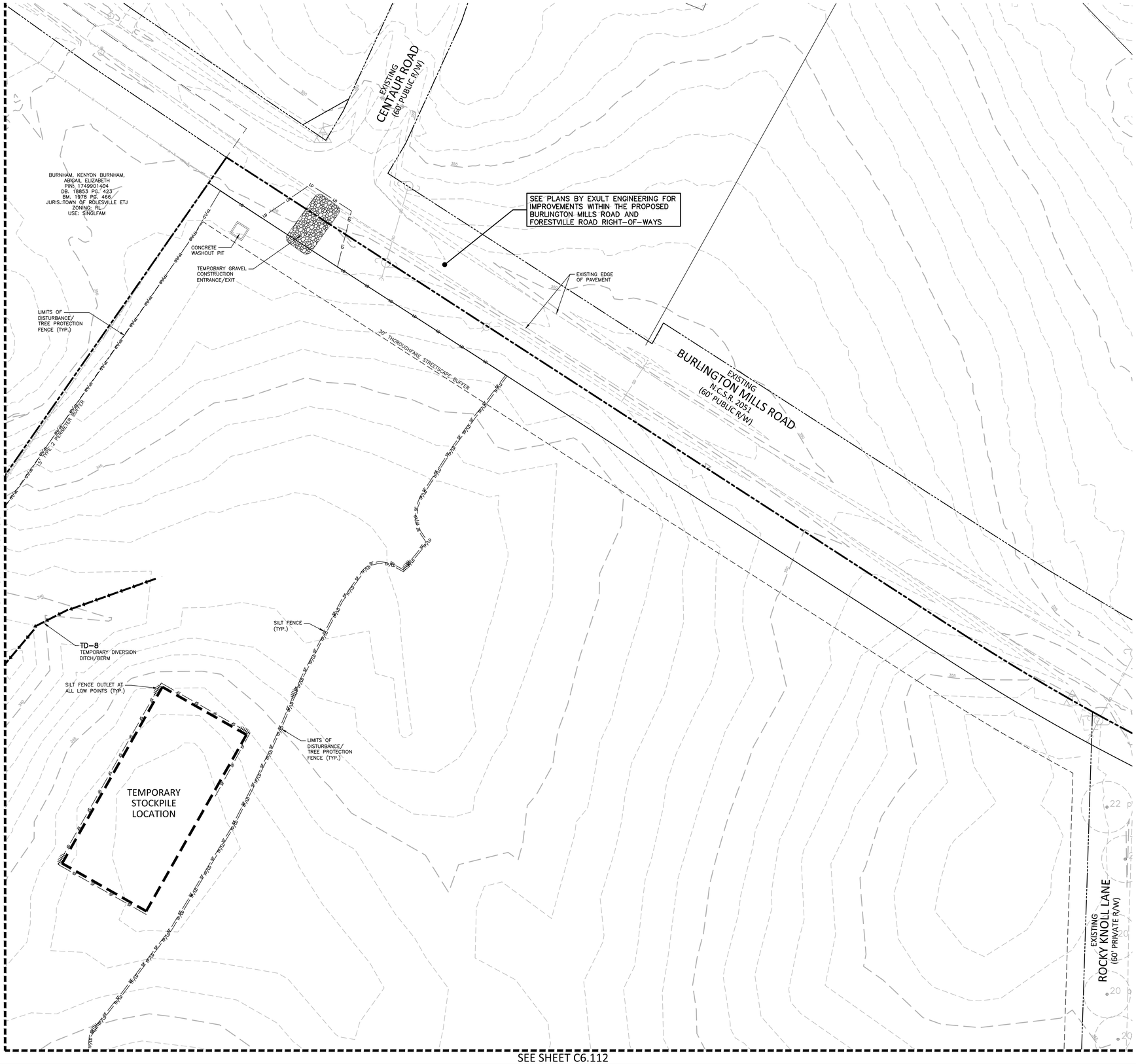

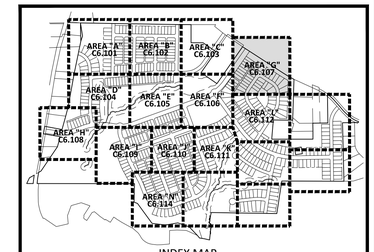

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CONTACT: JACOB ANDERSON
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PEARCE FARM - PHASES 1-3
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CID-24-08

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL
NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-EC1
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 AREA "G"

C6.107

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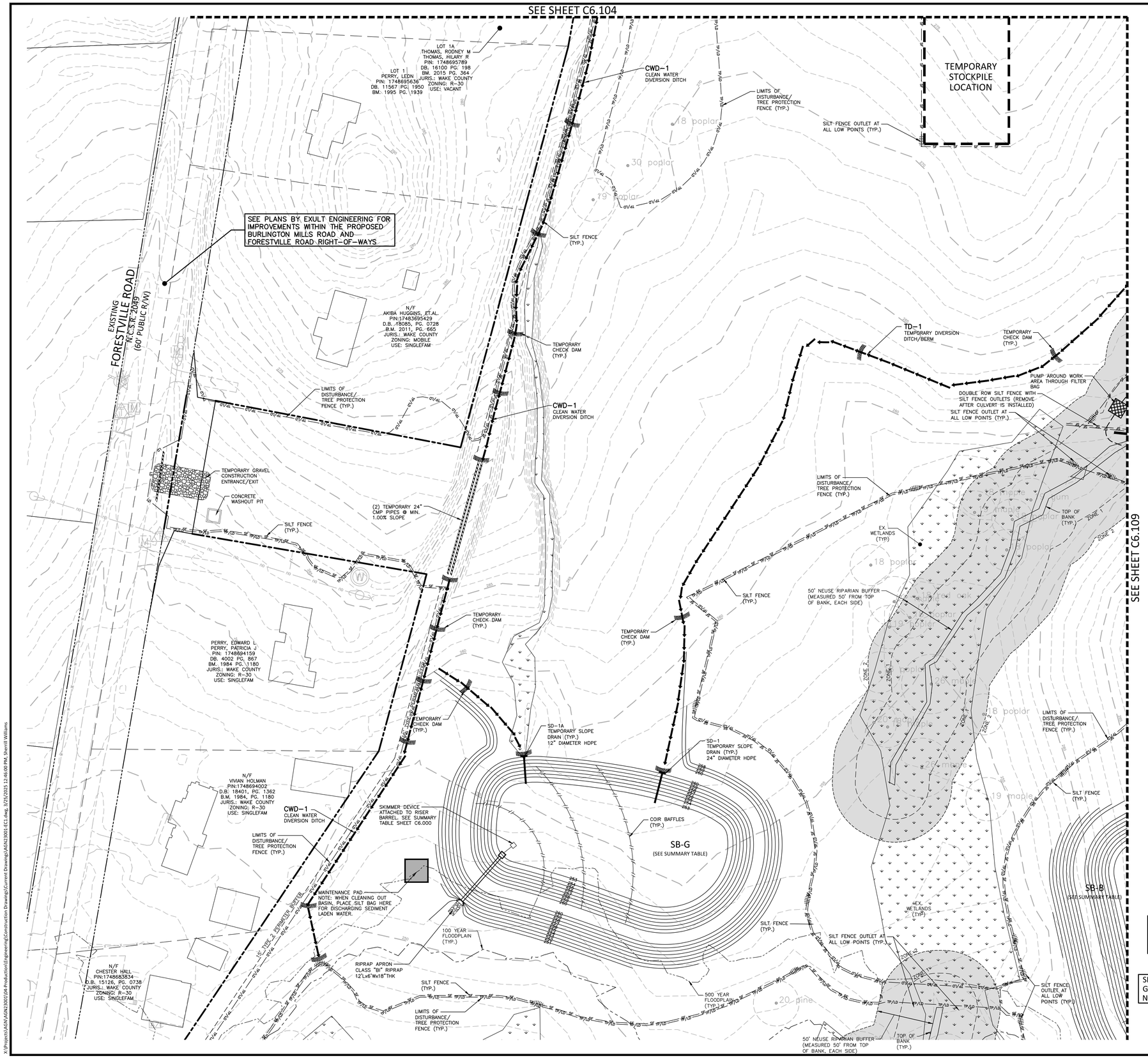

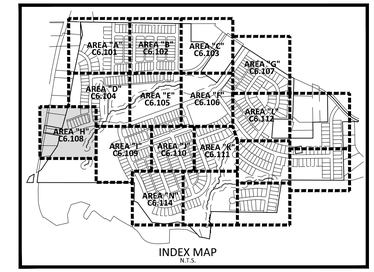

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GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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SHEET

EROSION CONTROL PLAN STAGE 1 AREA "H"

C6.108

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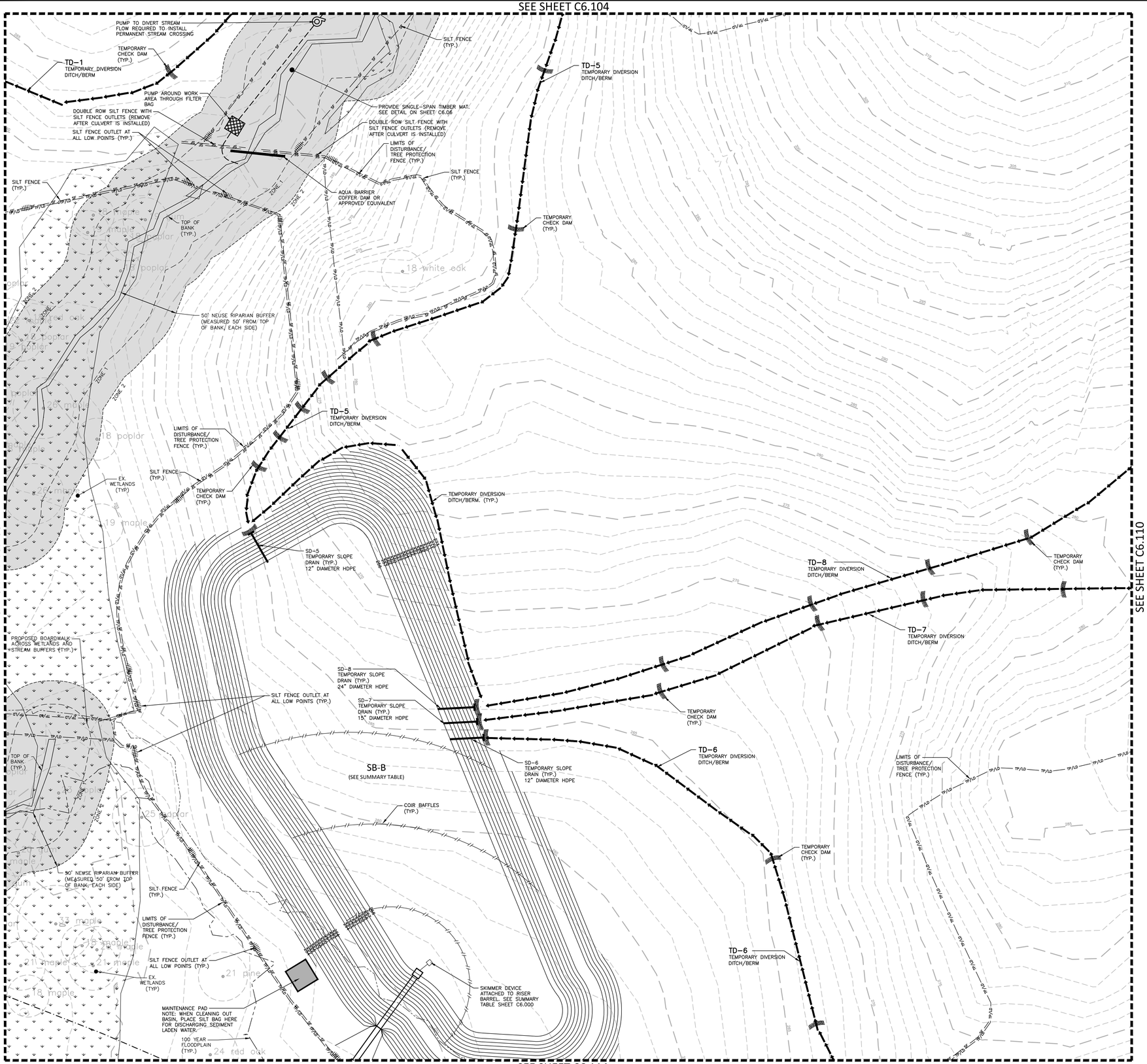
SEE SHEET C6.104



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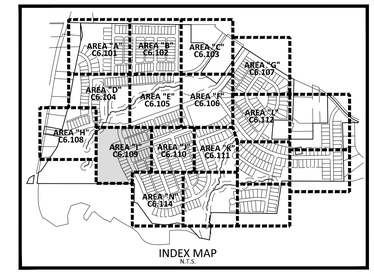

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PUMP AROUND NOTE:
CULVERT INSTALLATION OPERATIONS SHALL BE CONDUCTED DURING DURING RELATIVELY DRY PERIODS WHEN HEAVY RAINFALLS ARE NOT EXPECTED DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PROVIDE AT LEAST A 2"-3" PUMP THAT WILL CONVEY AT LEAST 140.0 GPM, WHICH IS THE APPROXIMATE BASE FLOW OF THE STREAM. THE PUMP SHALL ALSO BE CAPABLE OF CONVEYING THE REQUIRED FLOW WITH 5-FEET STATIC HEAD. CONTRACTOR SHALL SUBMIT PUMP SPECIFICATIONS TO THE ENGINEER FOR APPROVAL.

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SHEET

EROSION CONTROL PLAN STAGE 1 AREA "I"

C6.109

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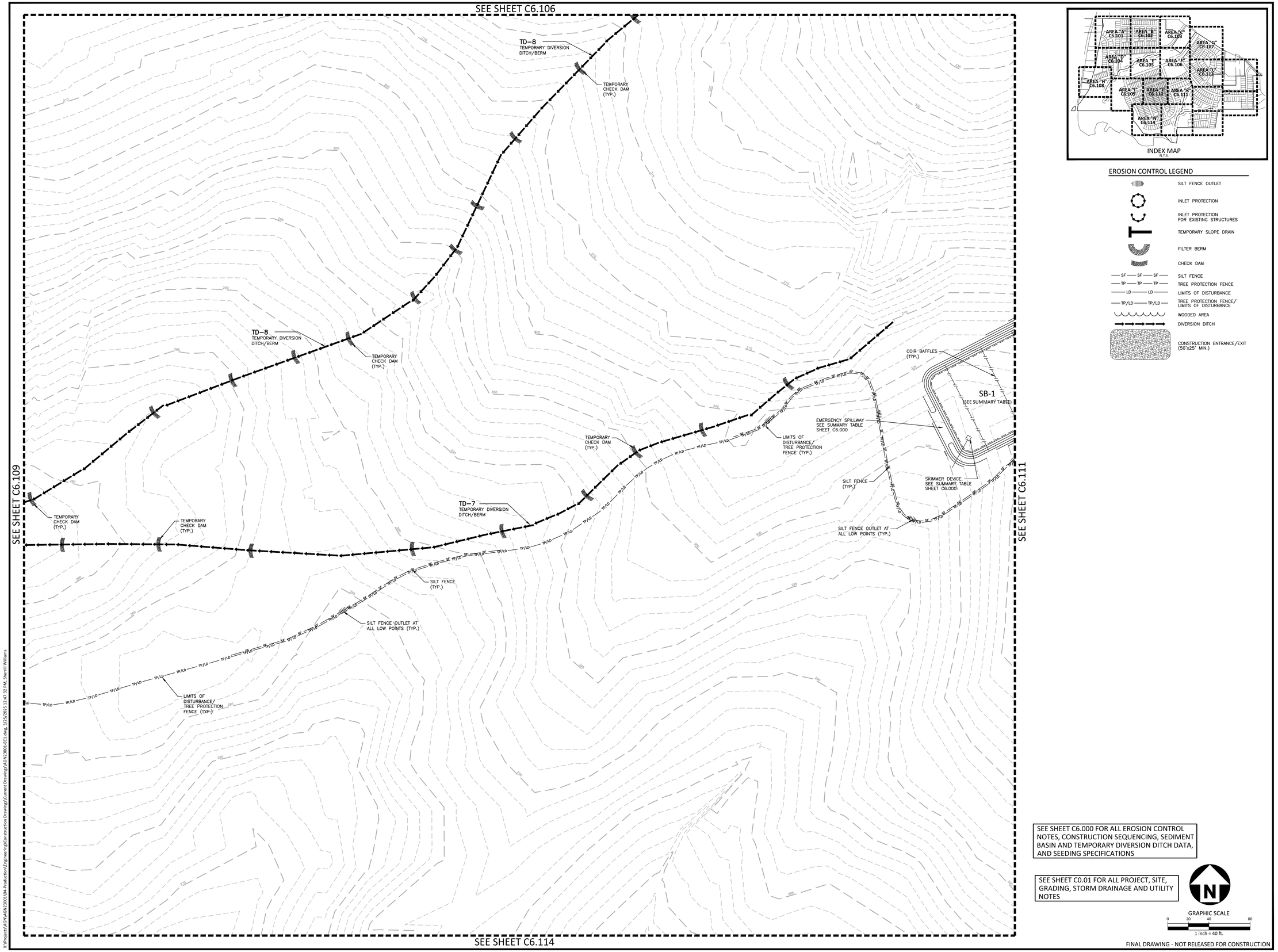

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SHEET

EROSION CONTROL PLAN STAGE 1 AREA "J"

C6.110

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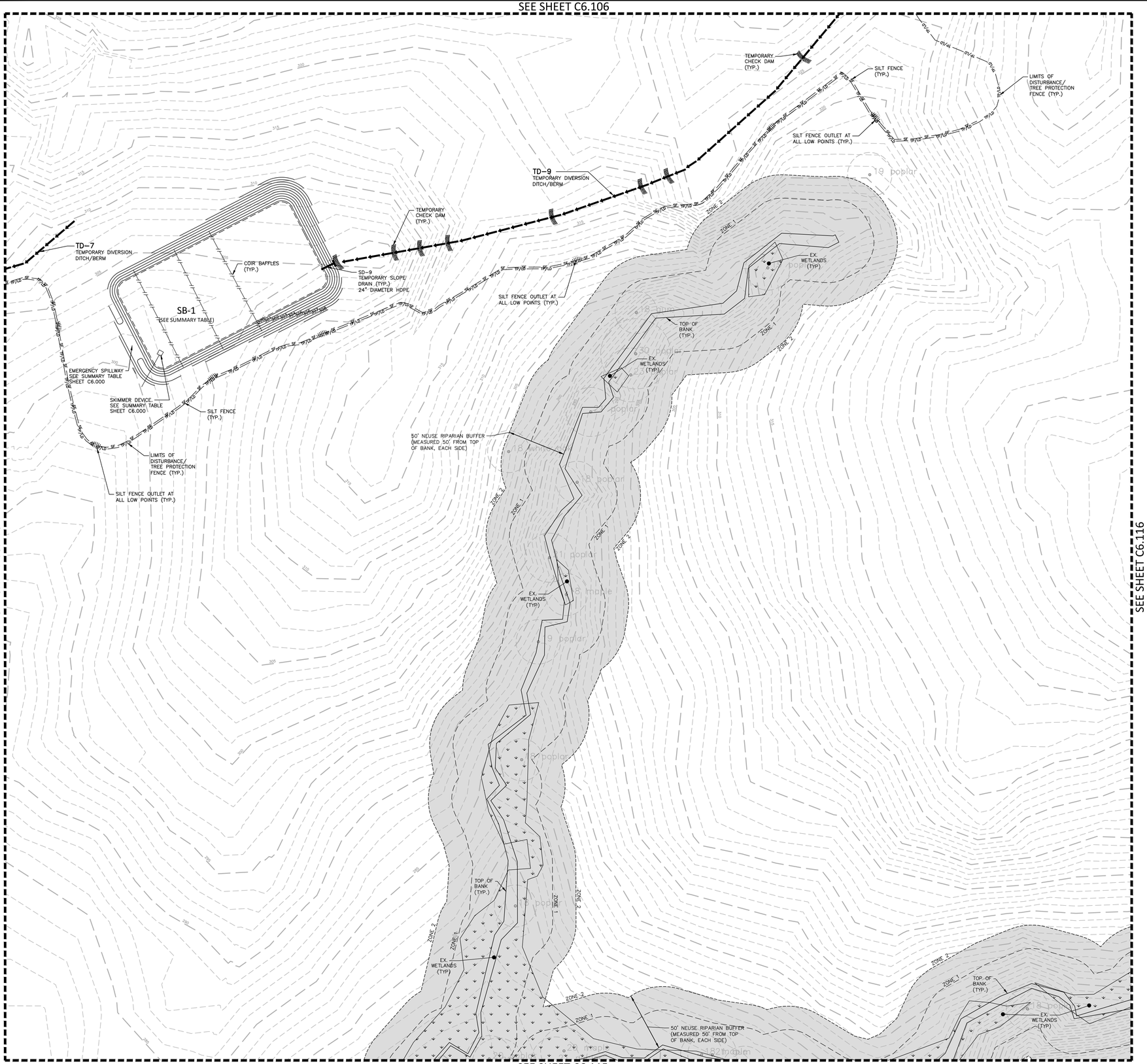

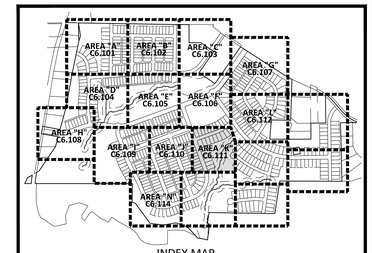

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GRAPHIC SCALE
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FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 AREA "K"

C6.111

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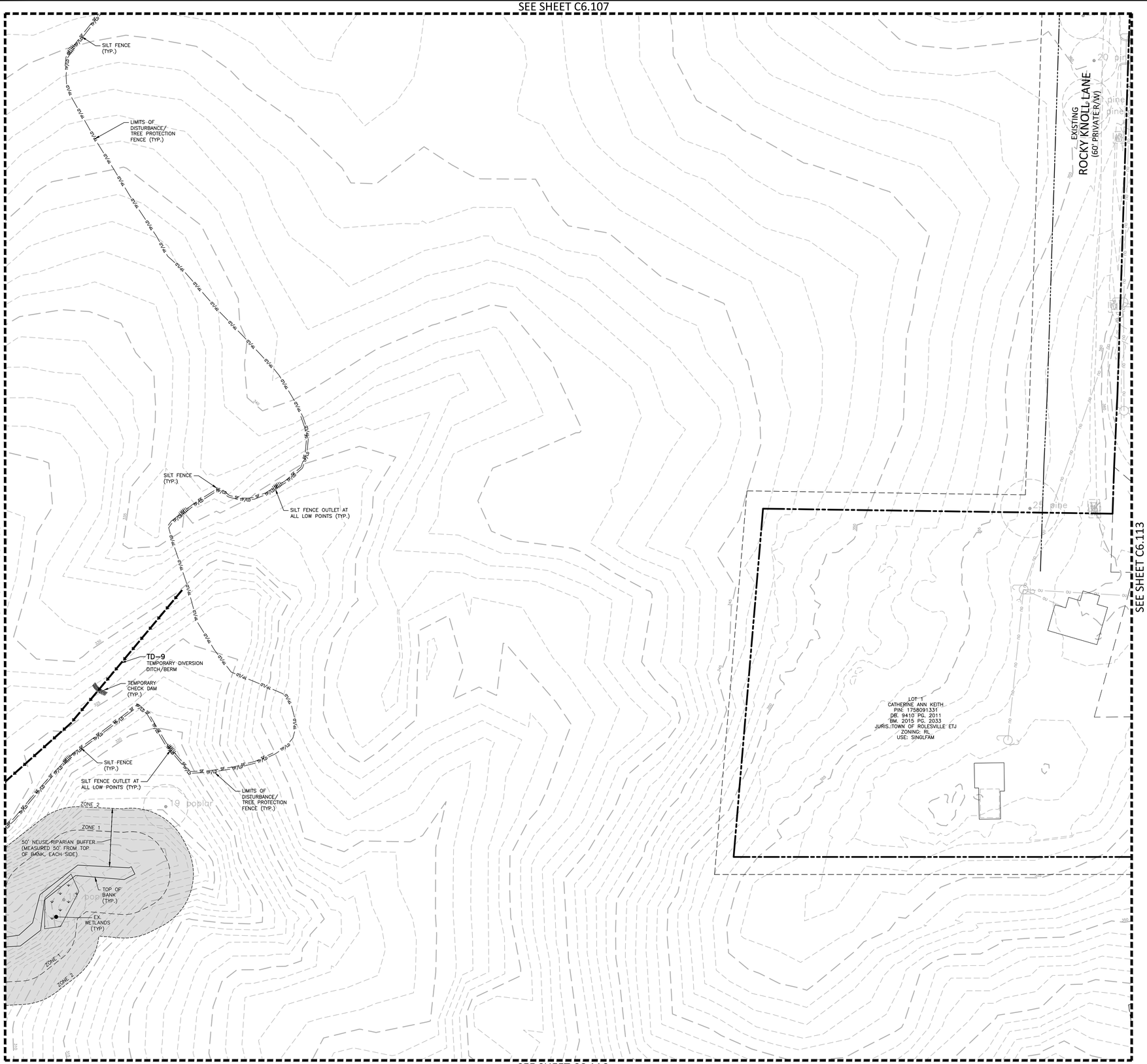
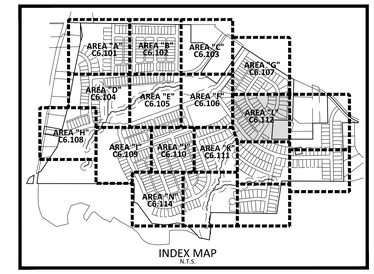
SEE SHEET C6.107

SEE SHEET C6.106

SEE SHEET C6.113

SEE SHEET C6.116





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N

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SHEET

EROSION CONTROL PLAN STAGE 1 AREA "L"

C6.112

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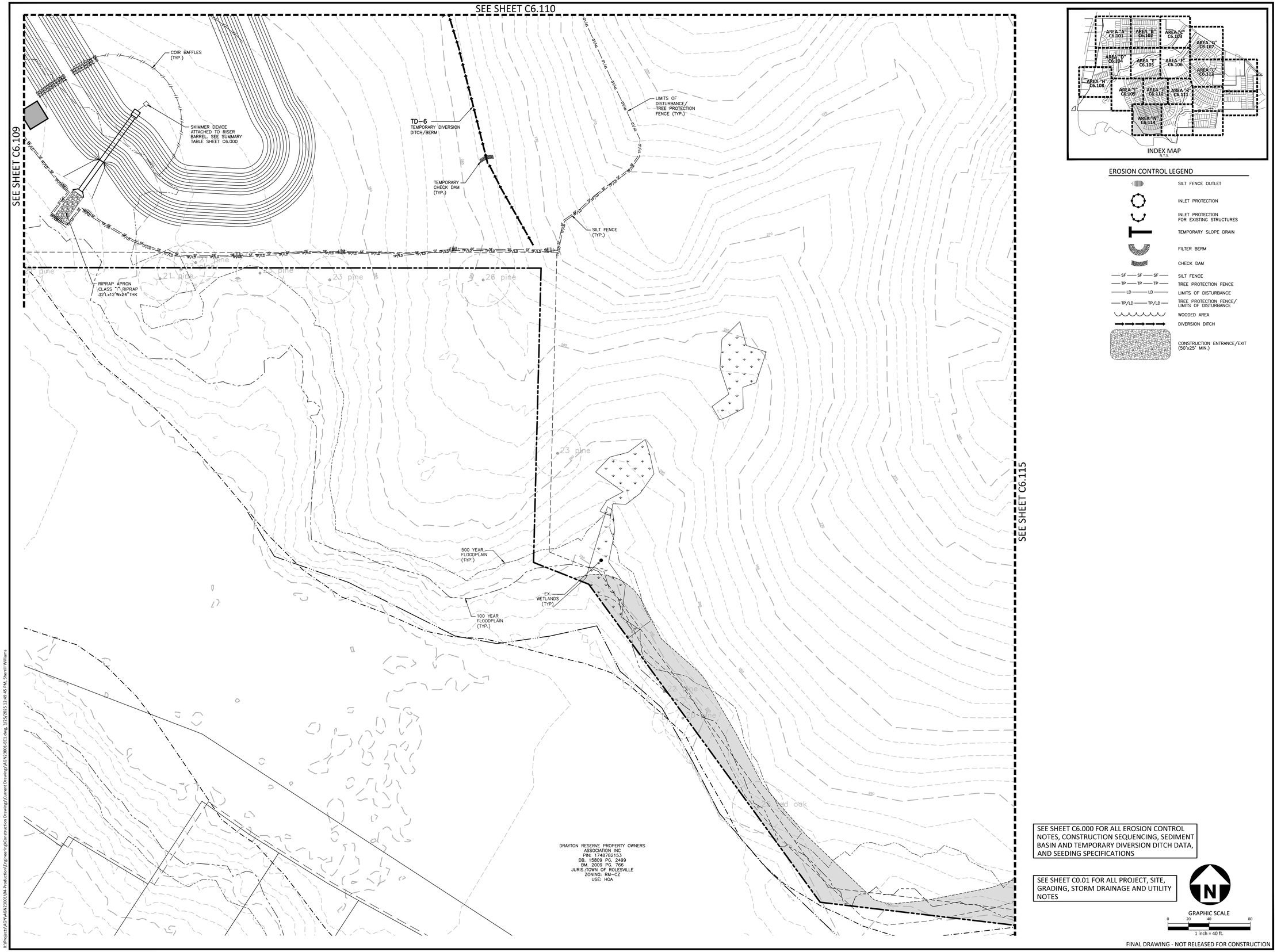

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SHEET

EROSION CONTROL PLAN STAGE 1 AREA "N"

C6.114

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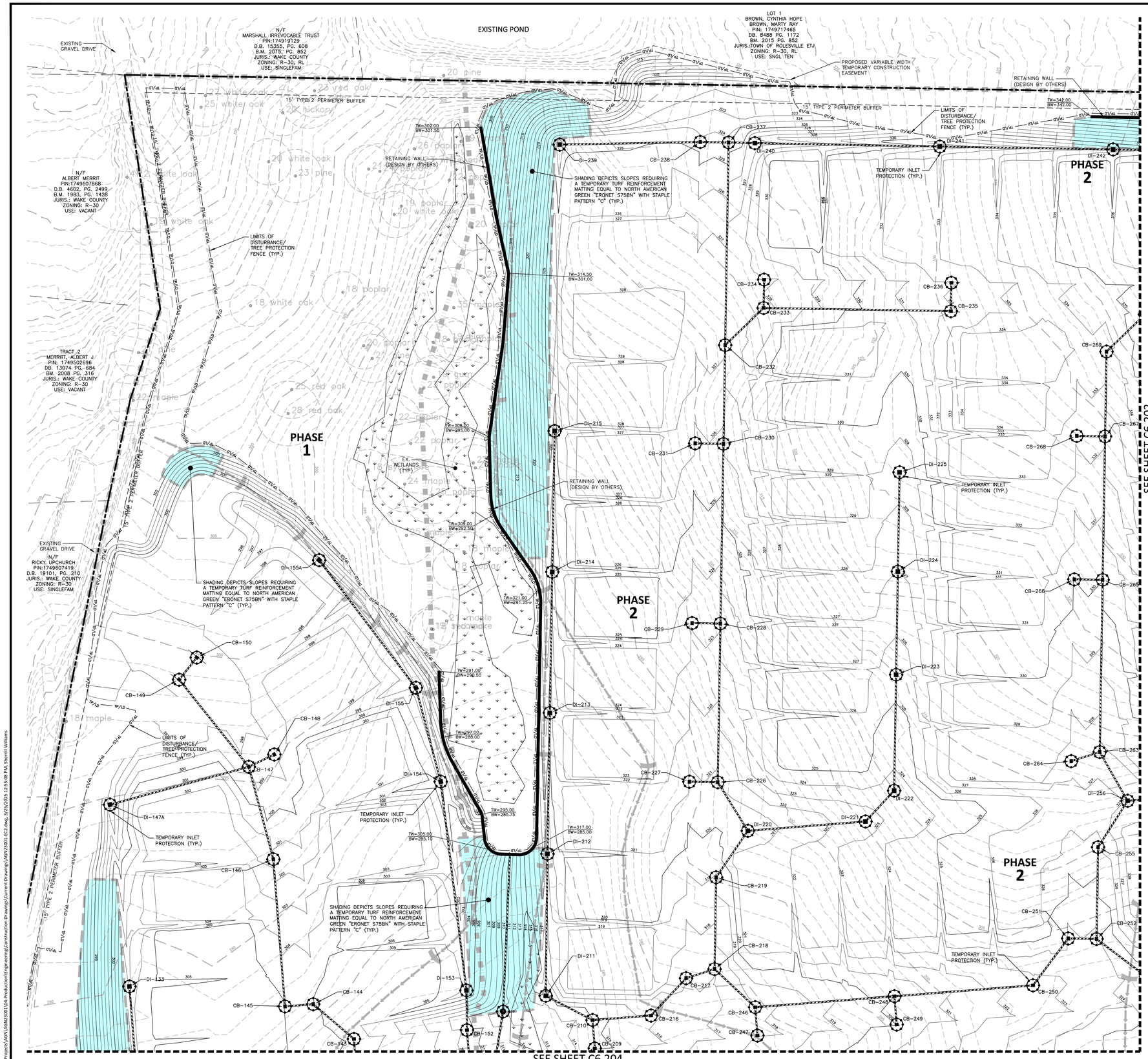

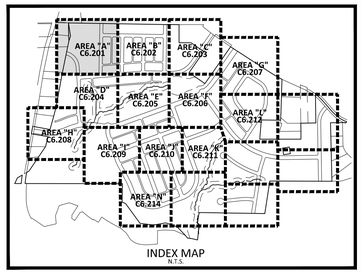

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EROSION CONTROL PLAN STAGE 2 AREA "A"

C6.201

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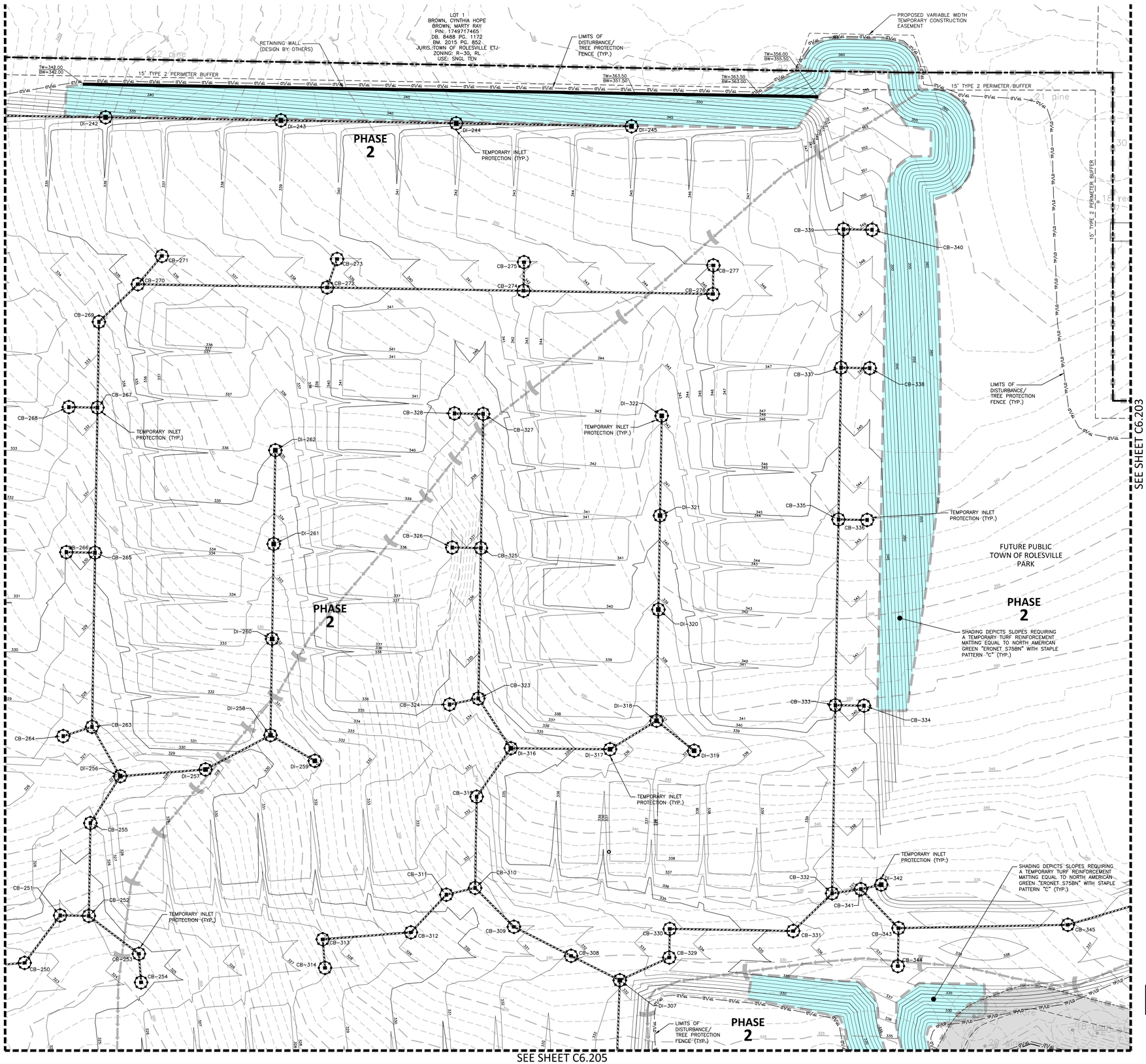

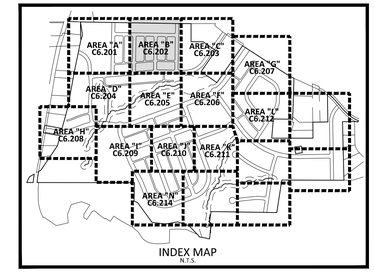

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SEE SHEET C6.000 FOR ALL EROSION CONTROL NOTES, CONSTRUCTION SEQUENCING, SEDIMENT BASIN AND TEMPORARY DIVERSION DITCH DATA, AND SEEDING SPECIFICATIONS

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

MCADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
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license number: C-0293, C-187

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RALEIGH, NORTH CAROLINA 27615
CONTACT: JACOB ANDERSON
PHONE: 919. 239. 9486

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PEARCE FARM - PHASES 1-3
CONSTRUCTION DRAWINGS - PACKAGE 1
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TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL
NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-EC2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 2 AREA "B"

C6.202

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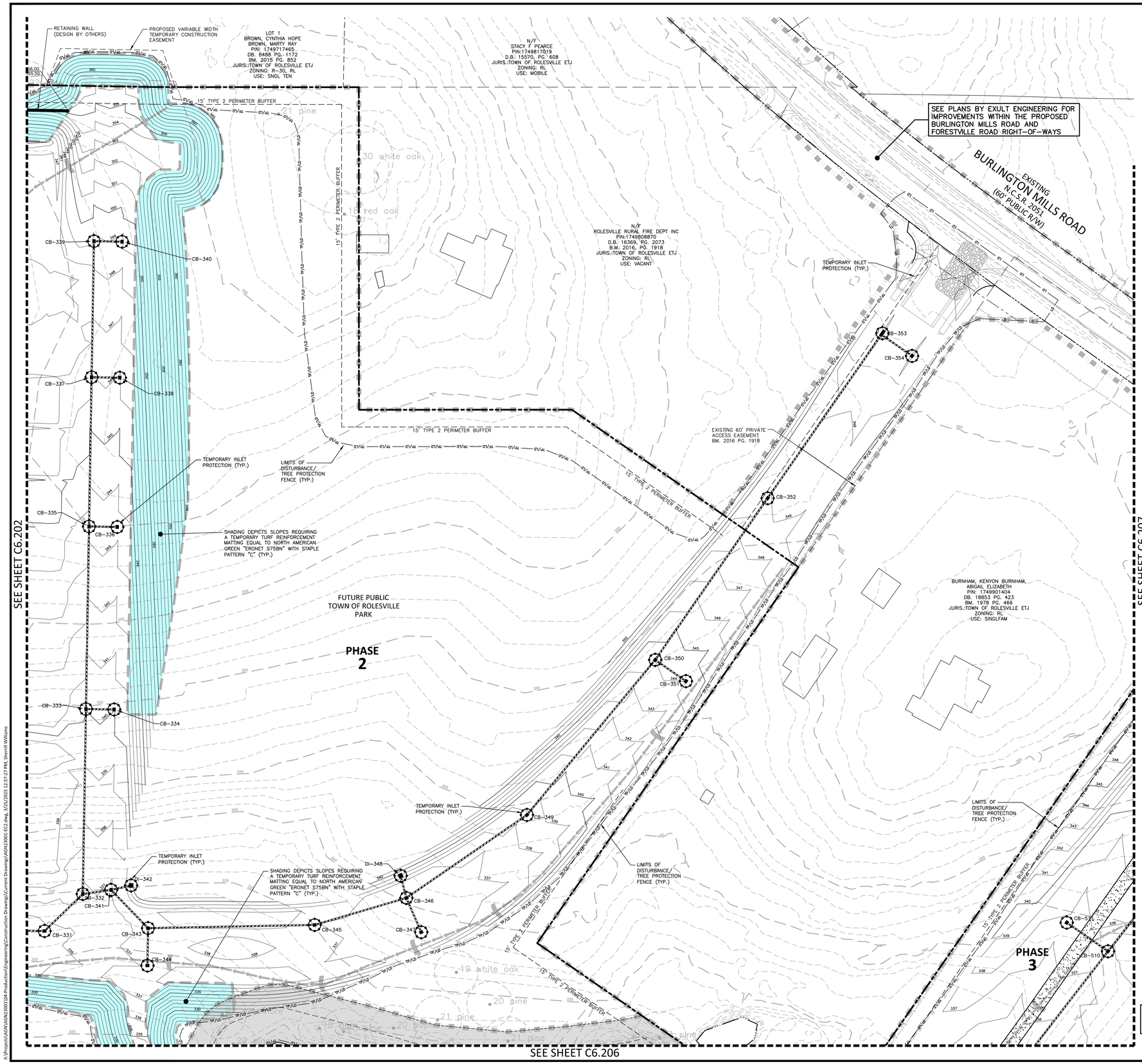

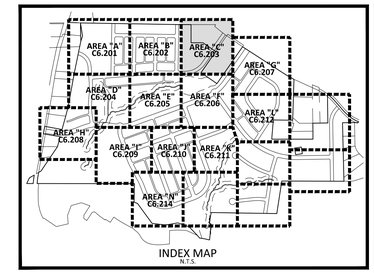

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
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- LD — LD — LIMITS OF DISTURBANCE
- TP/LD — TP/LD — TREE PROTECTION FENCE/ LIMITS OF DISTURBANCE
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GRAPHIC SCALE
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1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-EC2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 2 AREA "C"

C6.203

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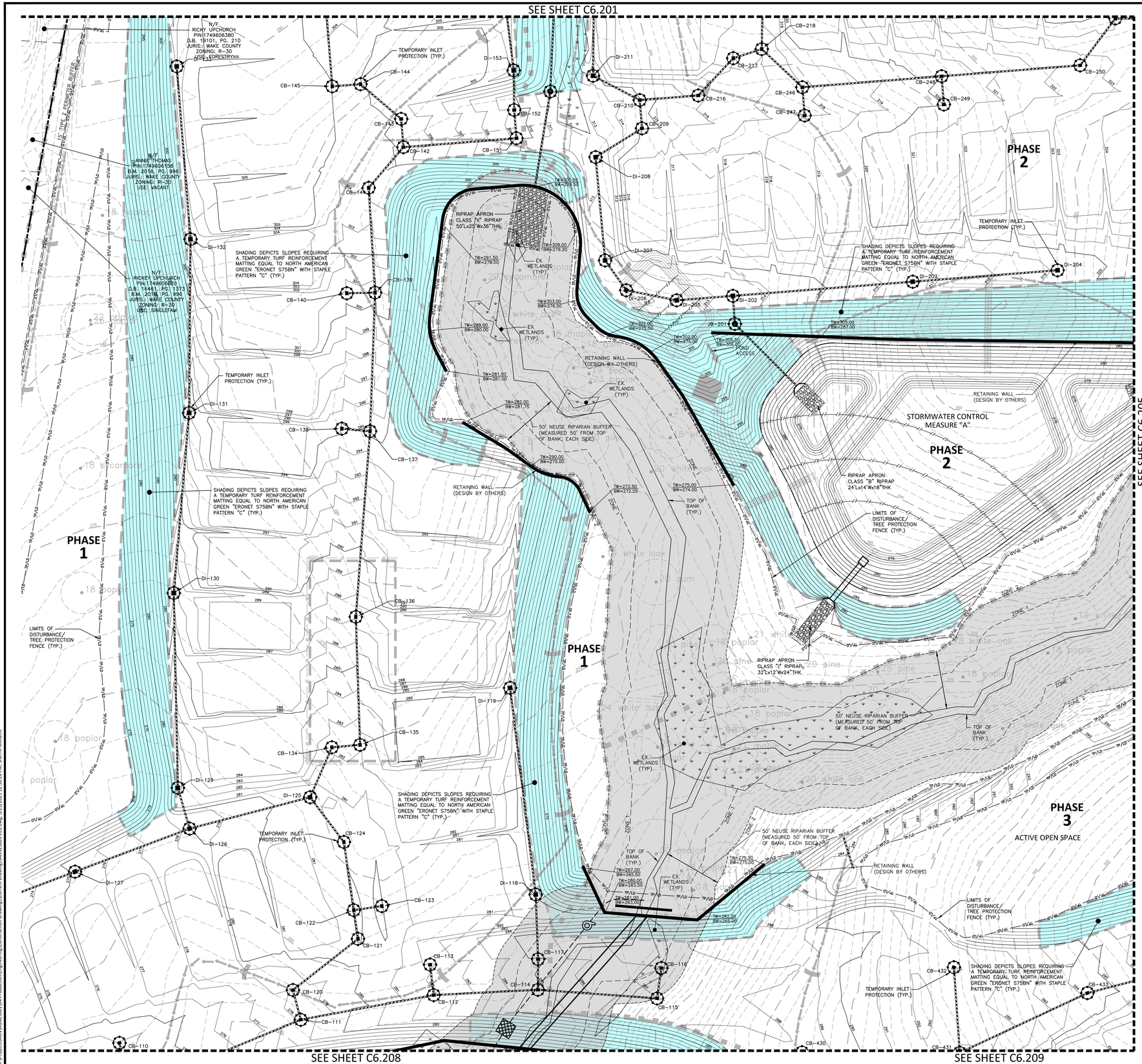

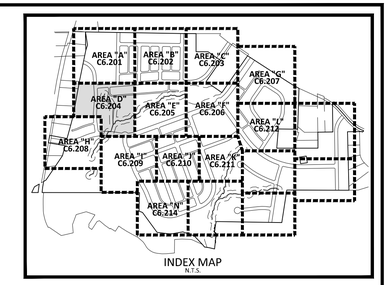

INDEX MAP
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PLAN INFORMATION

PROJECT NO.	AGN23001
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CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 2 AREA "D"

C6.204

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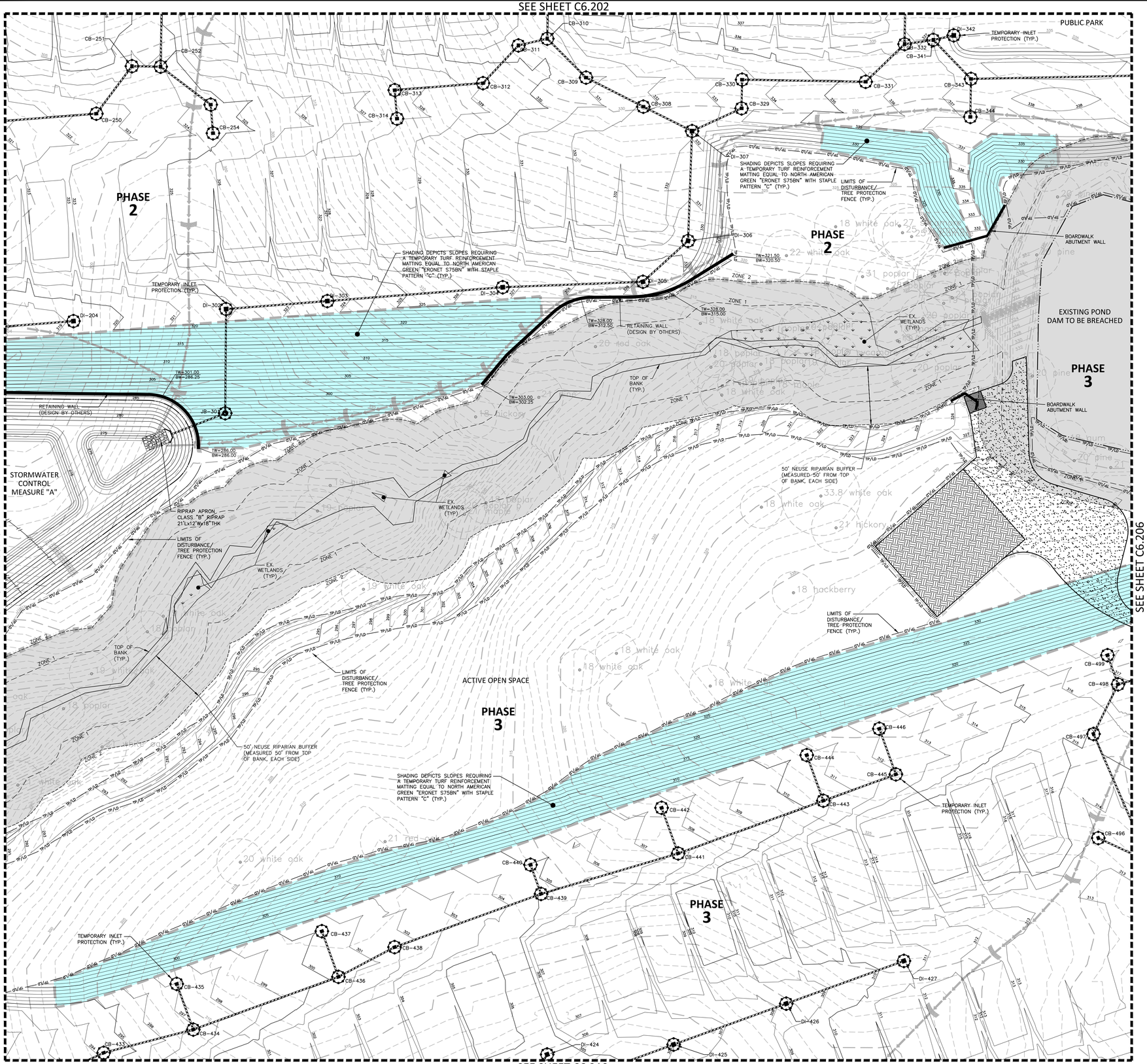
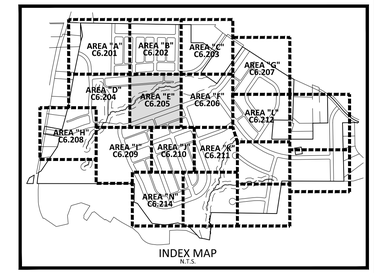
SEE SHEET C6.202





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1 inch = 40 ft.

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PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-EC2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 2 AREA "E"

C6.205

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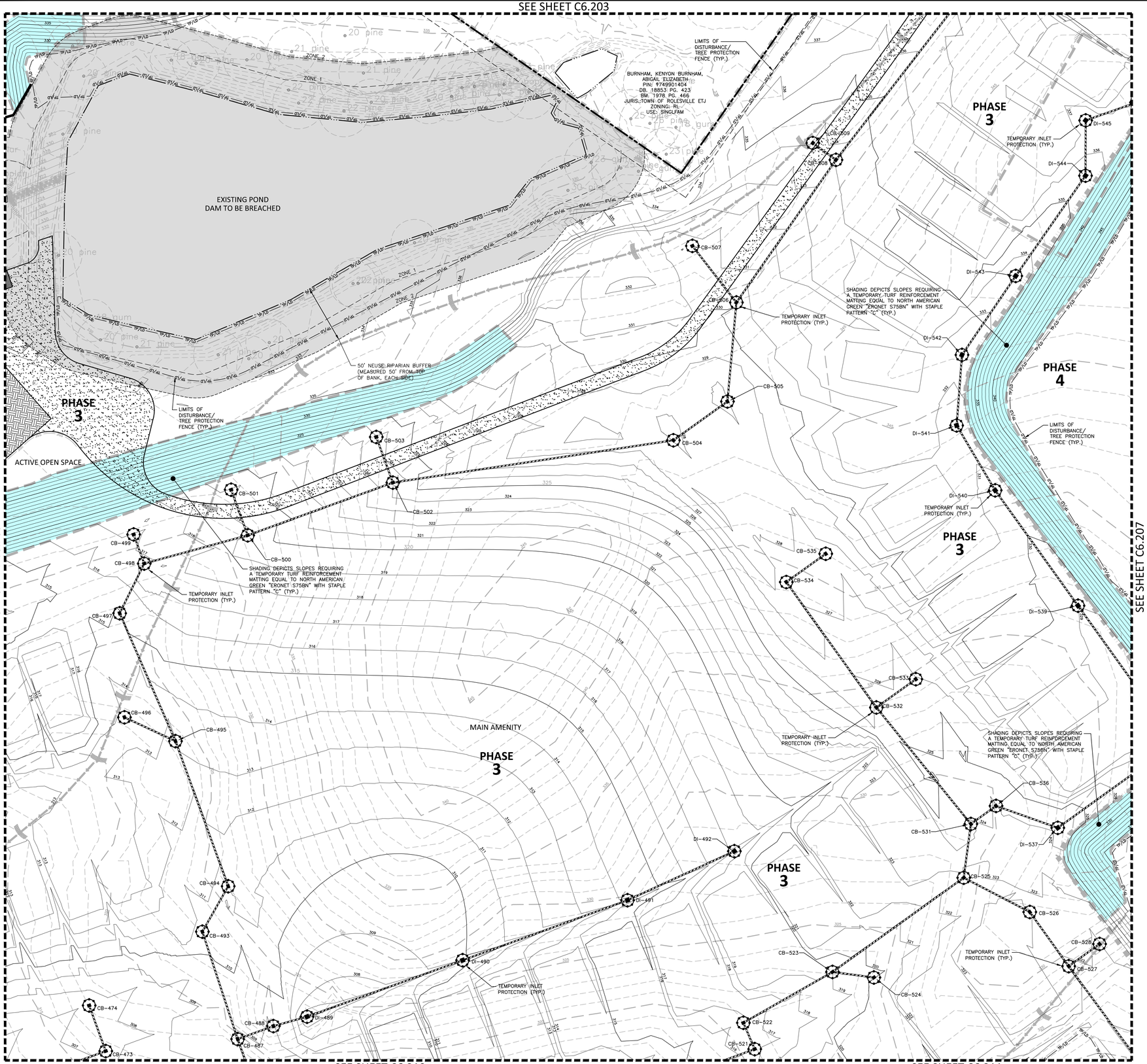
SEE SHEET C6.203

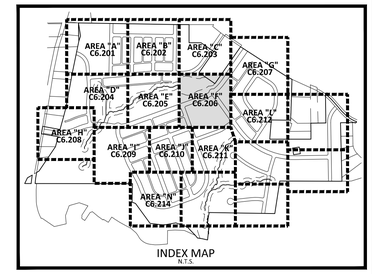


SEE SHEET C6.205

SEE SHEET C6.207

SEE SHEET C6.210

SEE SHEET C6.211



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1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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PLAN INFORMATION

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FILENAME	AGN23001-EC2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 2 AREA "F"

C6.206

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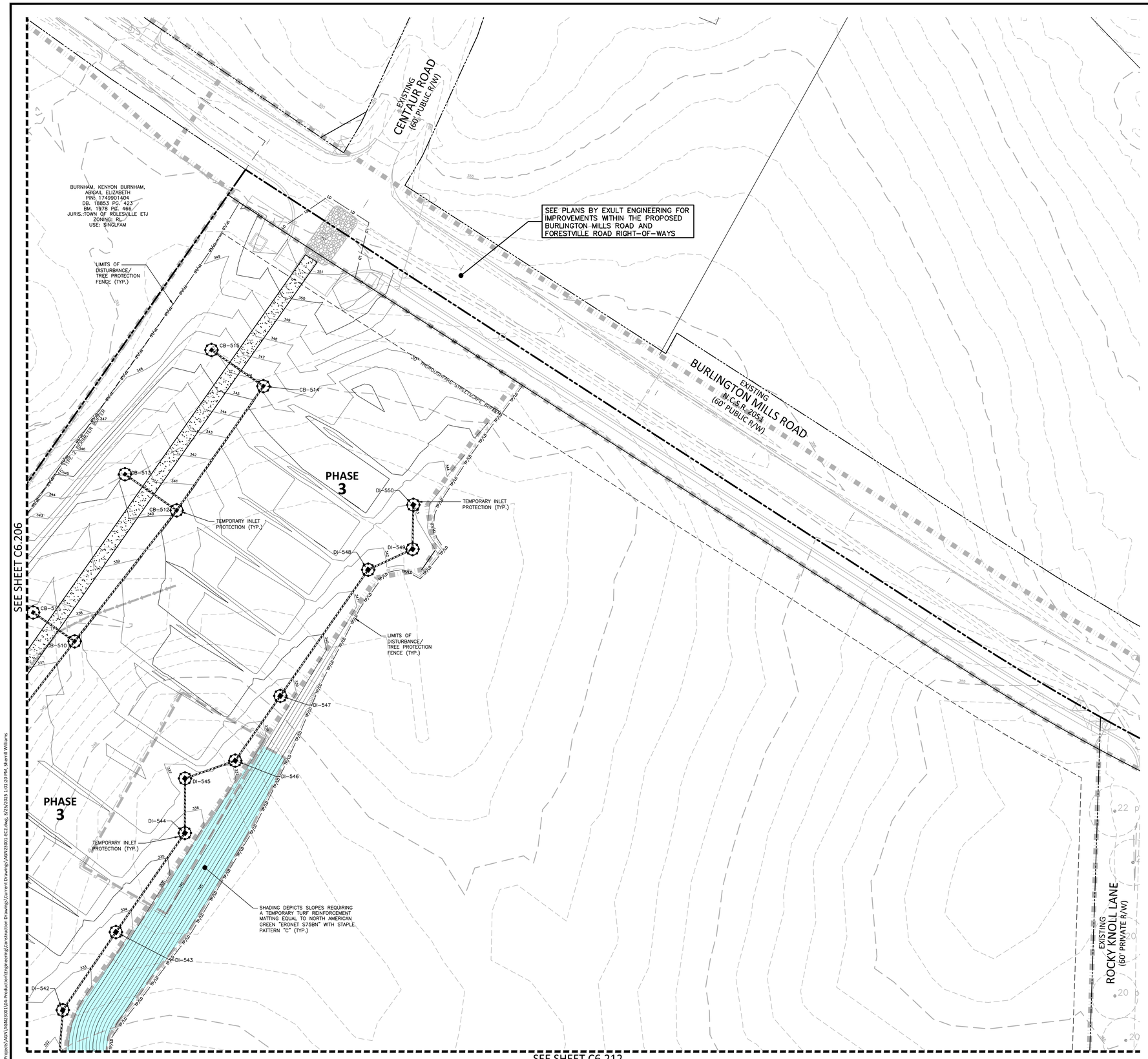

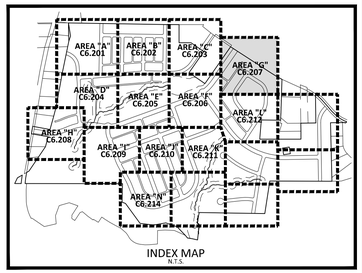

INDEX MAP
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1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-EC2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 2 AREA "G"

C6.207

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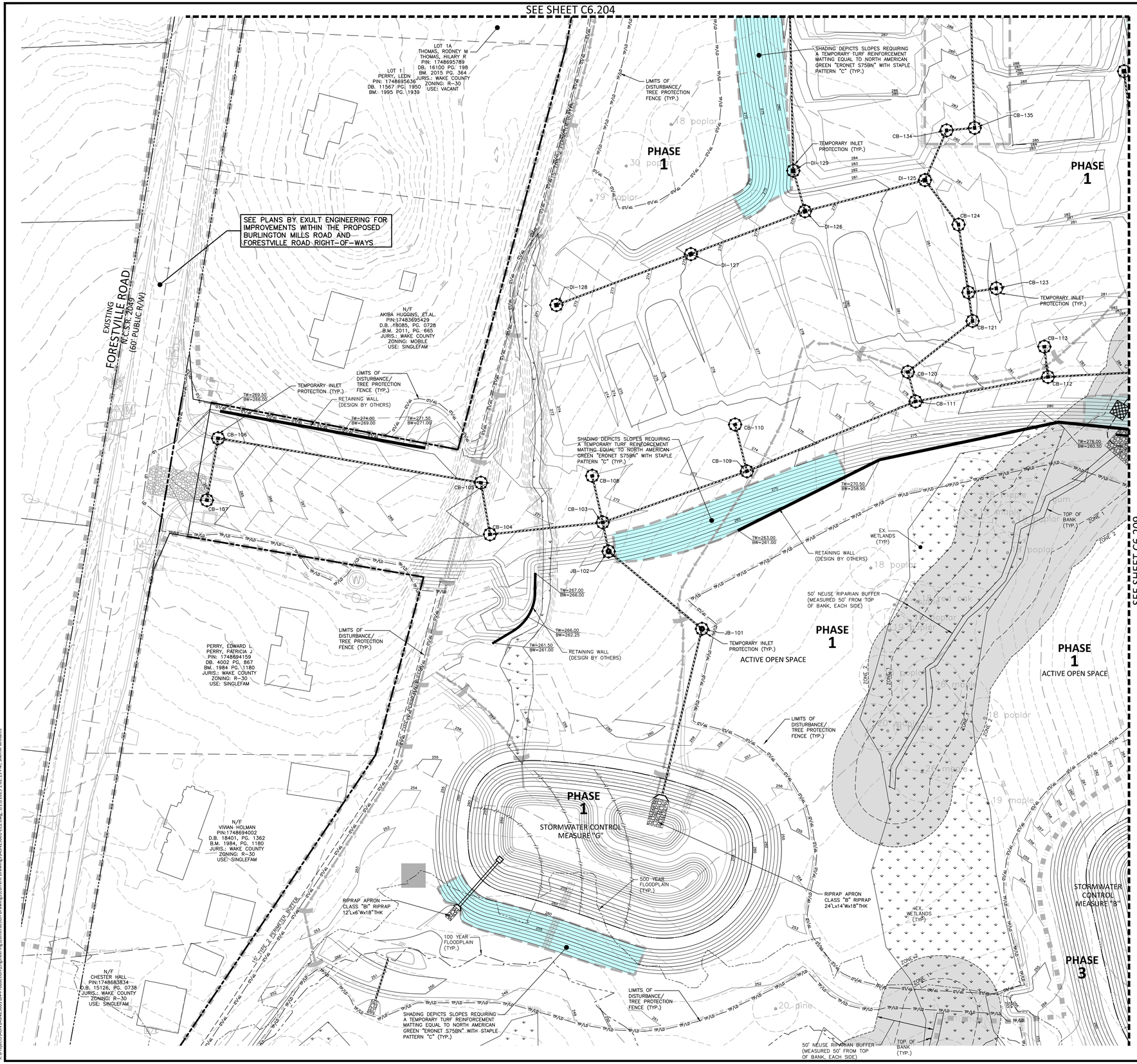

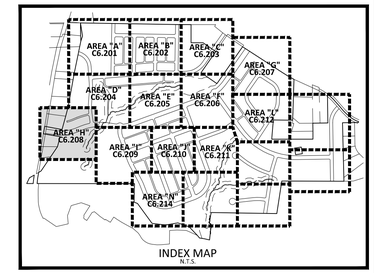

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CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 2 AREA "H"

C6.208

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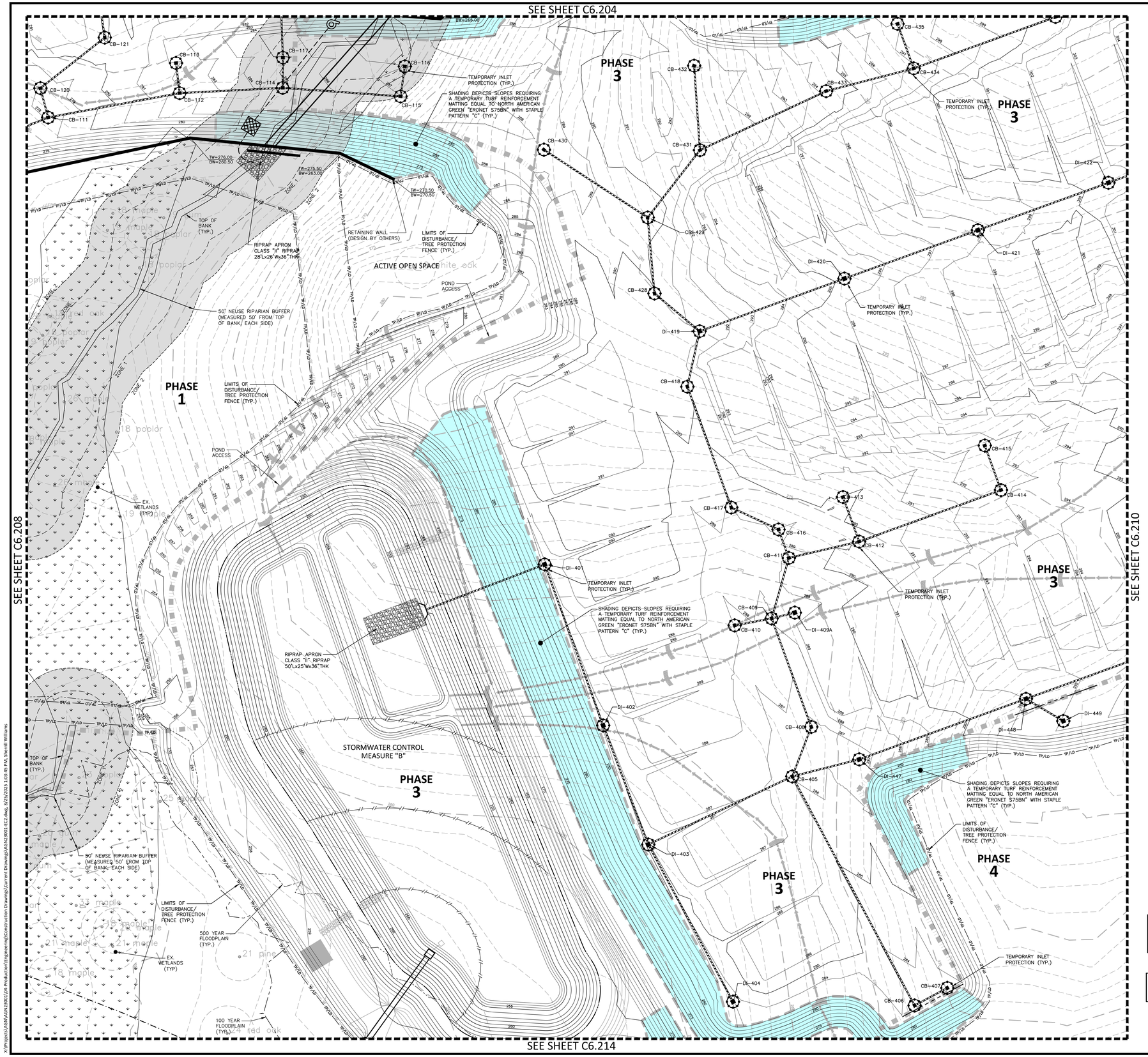

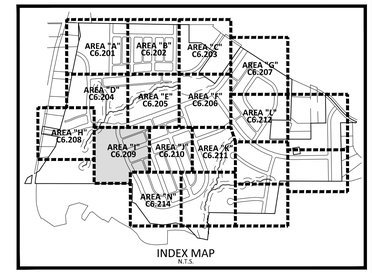

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DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 2 AREA "I"

C6.209

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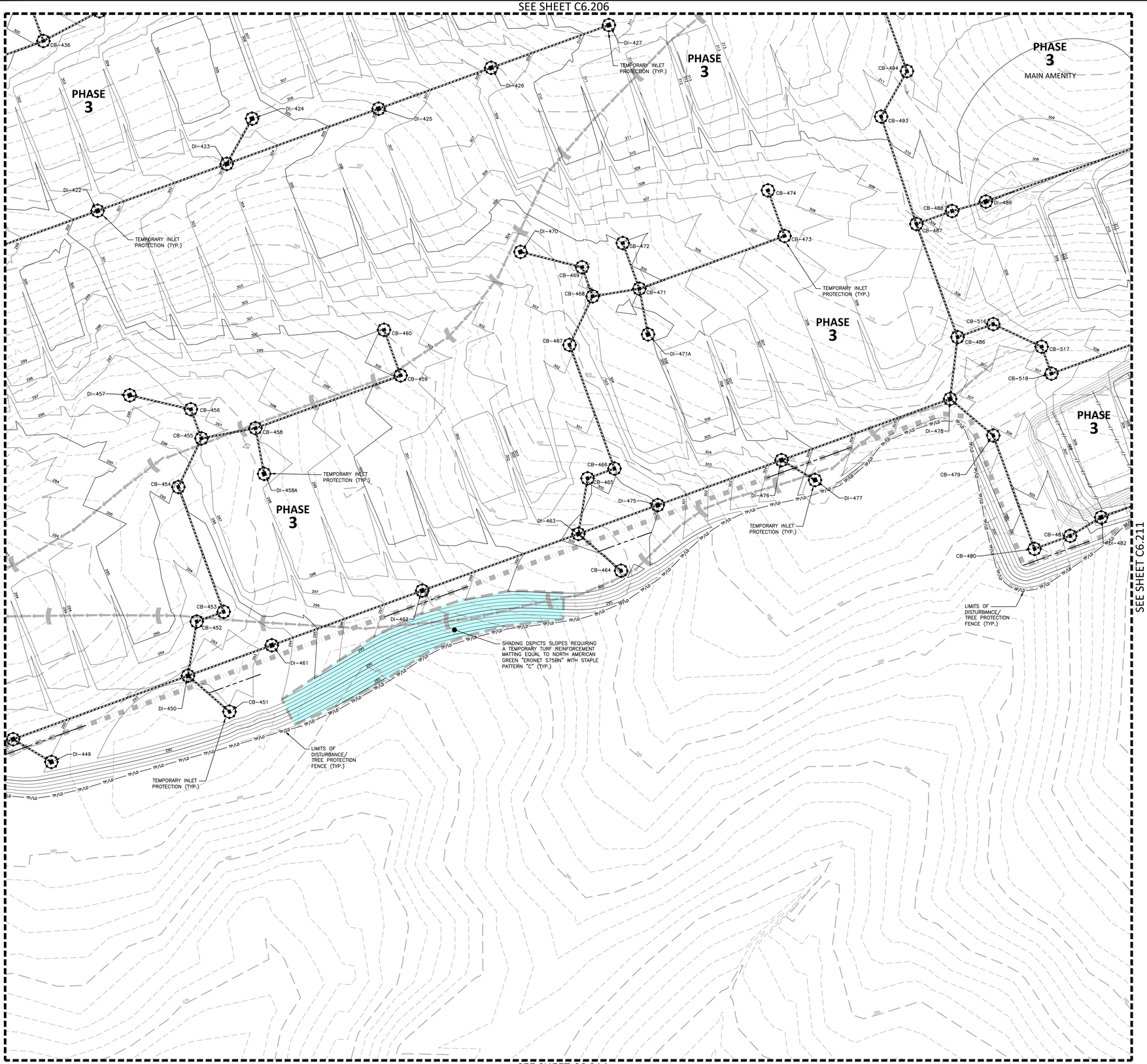
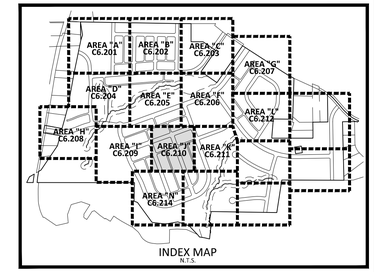
SEE SHEET C6.206



SEE SHEET C6.214



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N

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
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CID-24-08

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-EC2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 2 AREA "J"

C6.210

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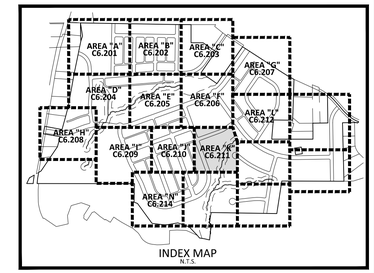
SEE SHEET C6.206



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SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 2 AREA "K"

C6.211

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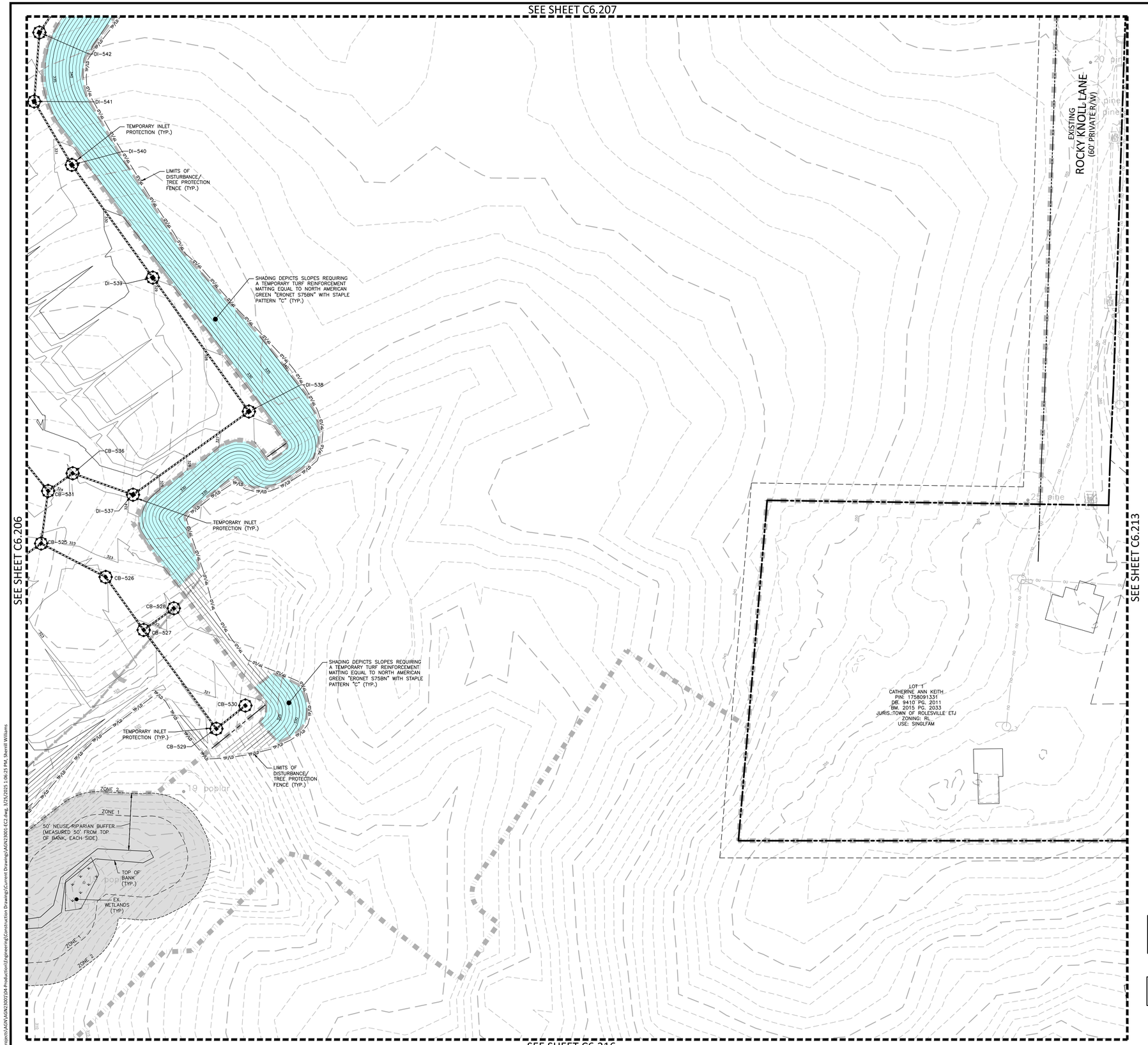
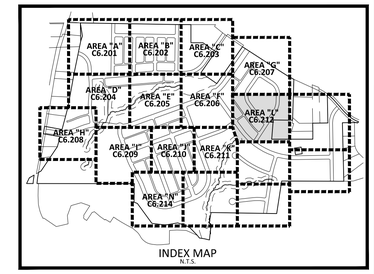
SEE SHEET C6.207





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CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 2 AREA "L"

C6.212

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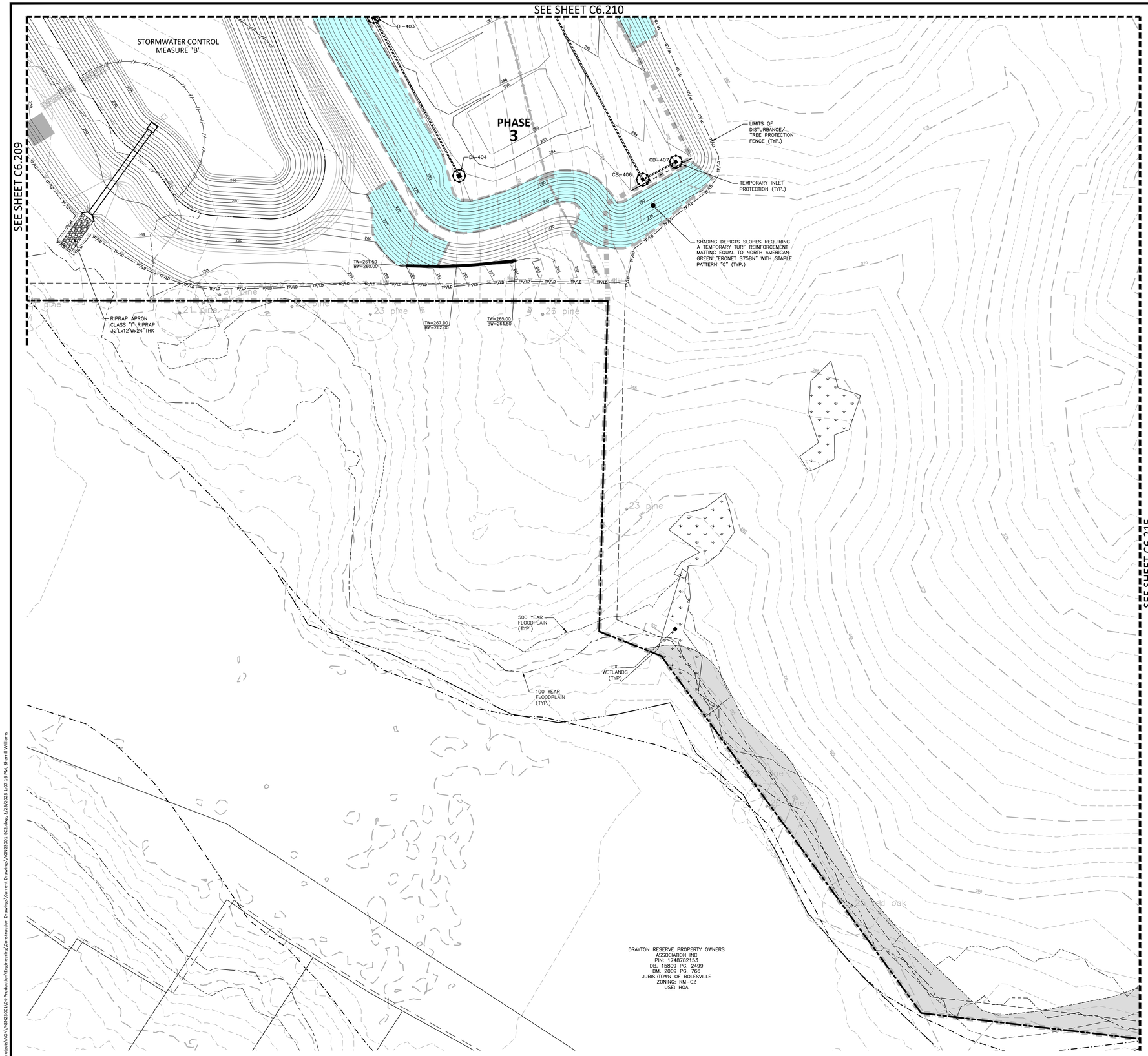

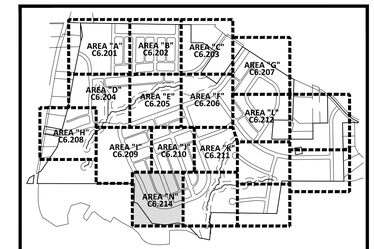

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FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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FILENAME	AGN23001-EC2
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 2 AREA "N"

C6.214

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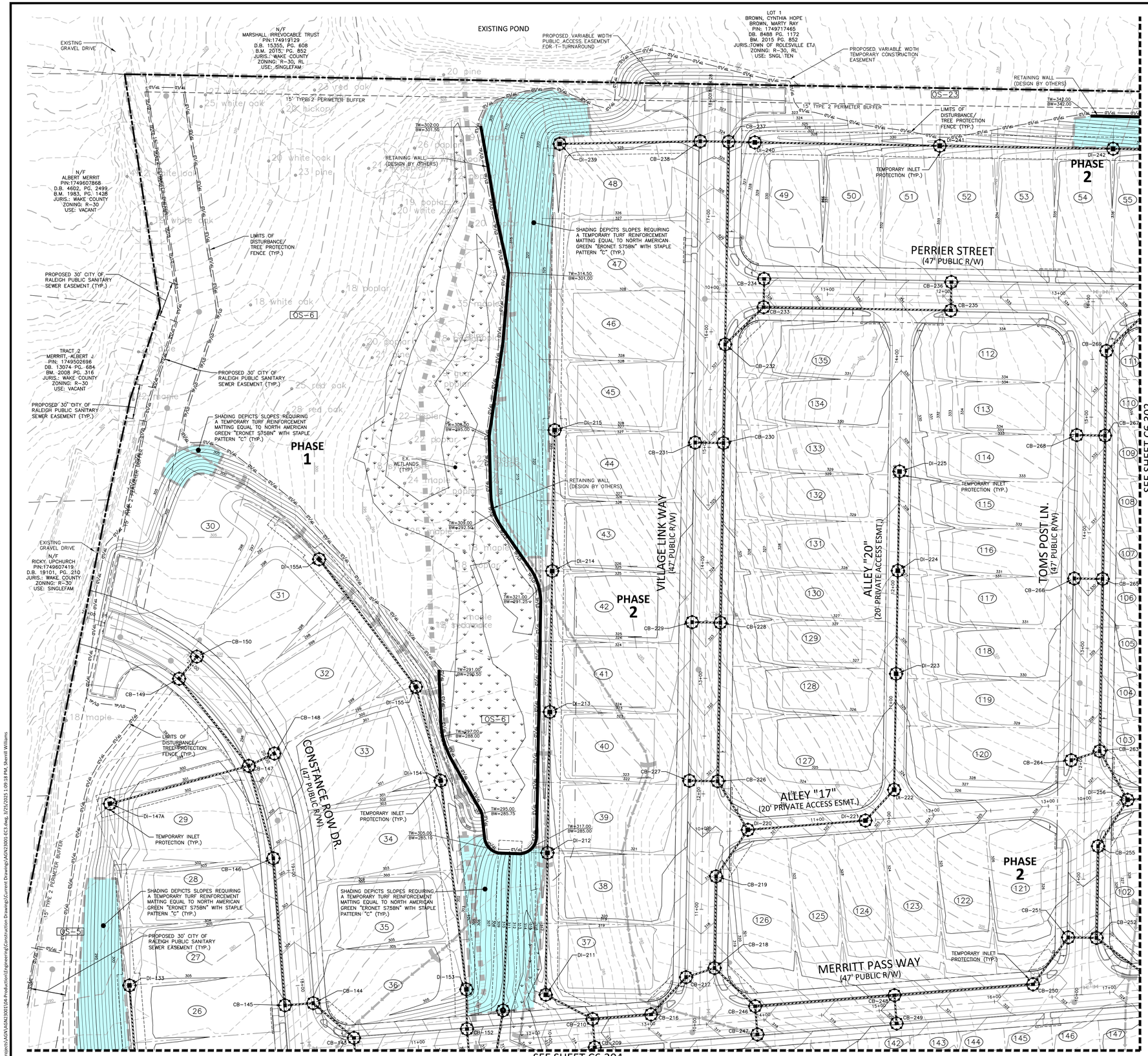

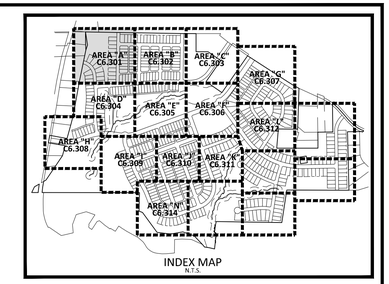

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FILENAME	AGN23001-EC3
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 3 AREA "A"

C6.301

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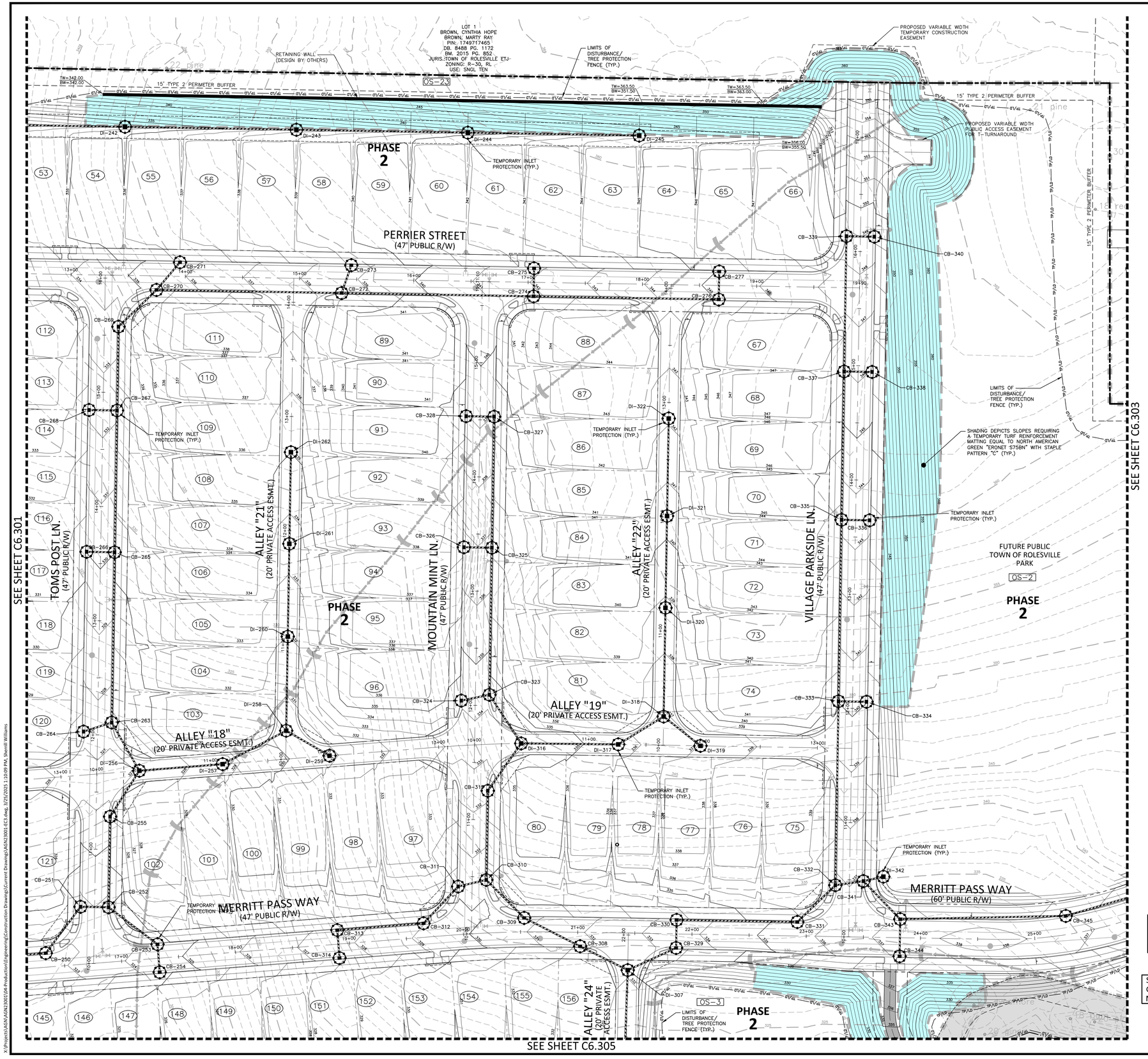

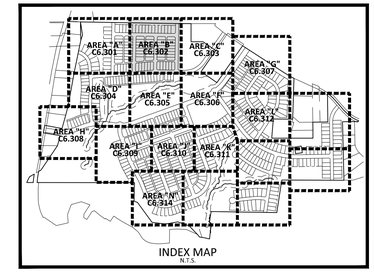

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CHECKED BY	.
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SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 3 AREA "B"

C6.302

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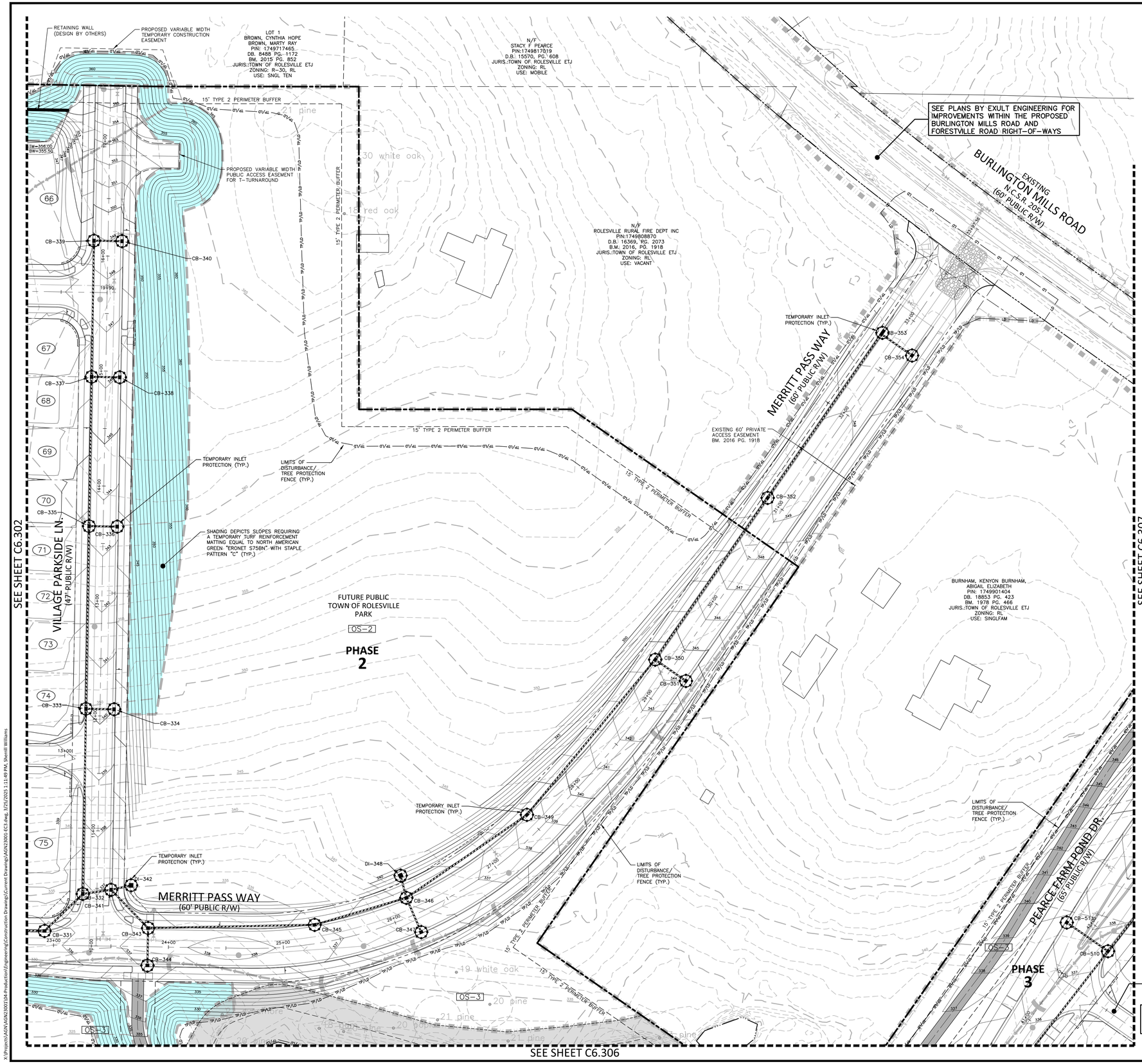

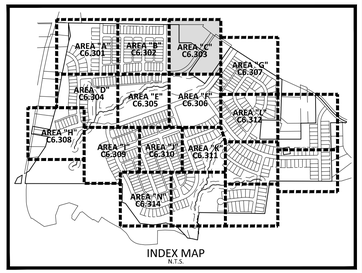

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DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 3 AREA "C"

C6.303

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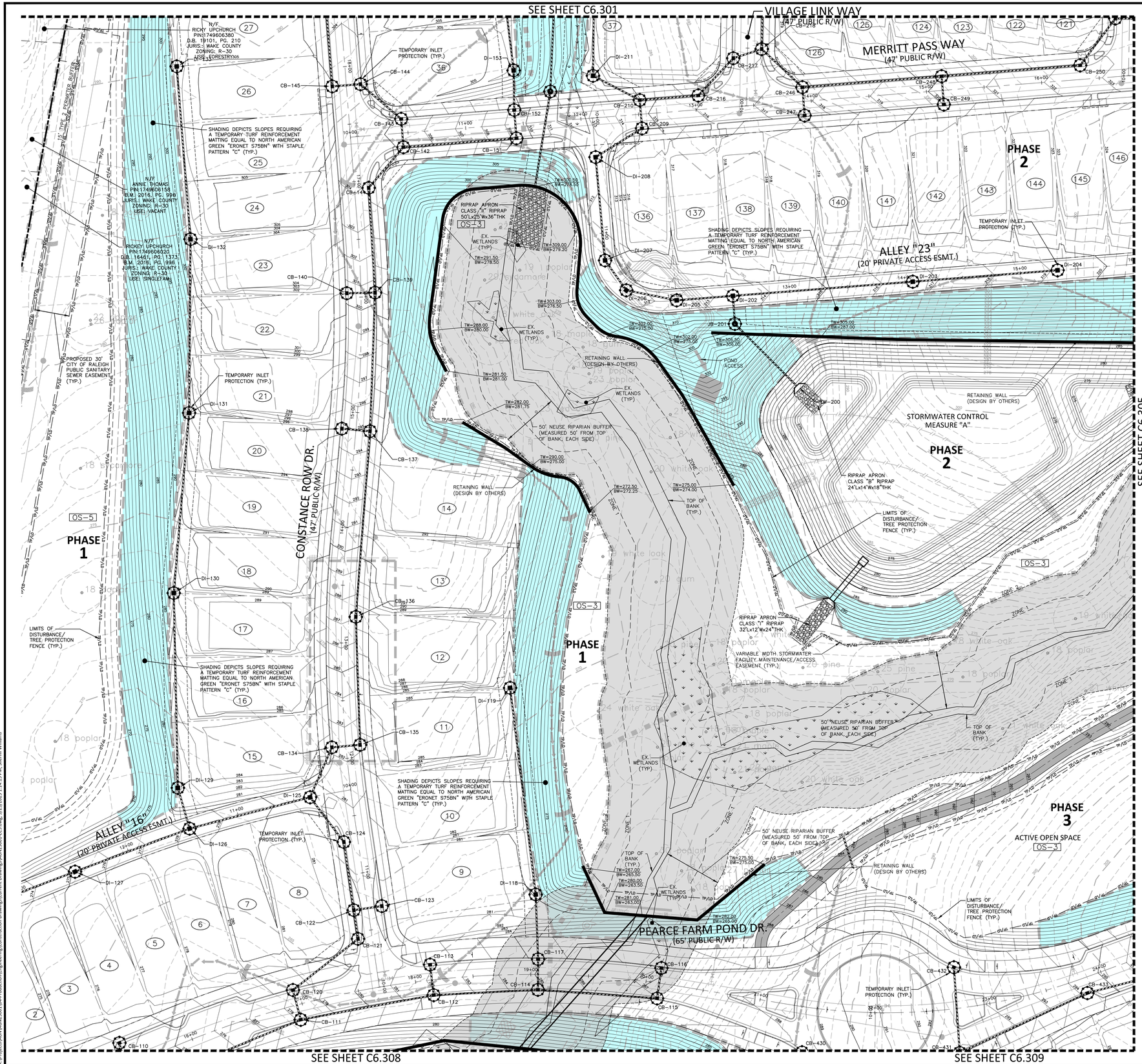

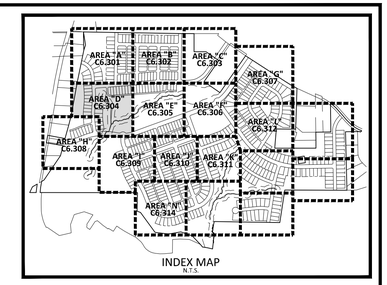

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SHEET

EROSION CONTROL PLAN STAGE 3 AREA "D"

C6.304

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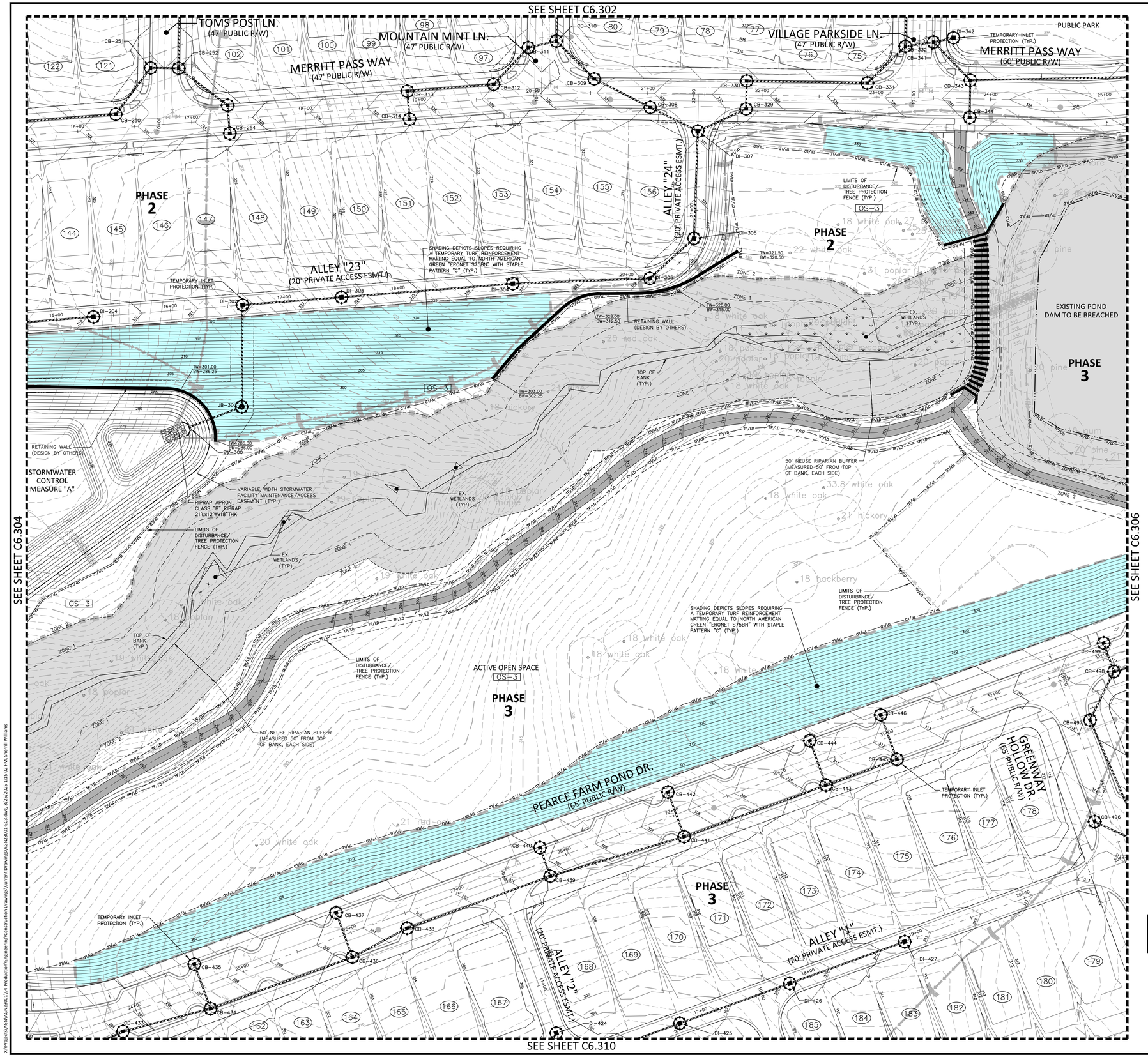

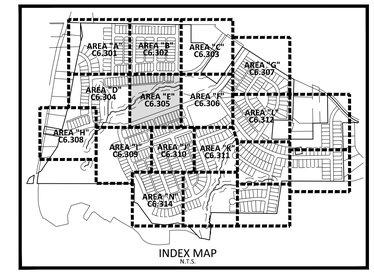

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GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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CID-24-08

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22630 WILLIAM T. O'DAVEL
NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-EC3
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 3 AREA "E"

C6.305

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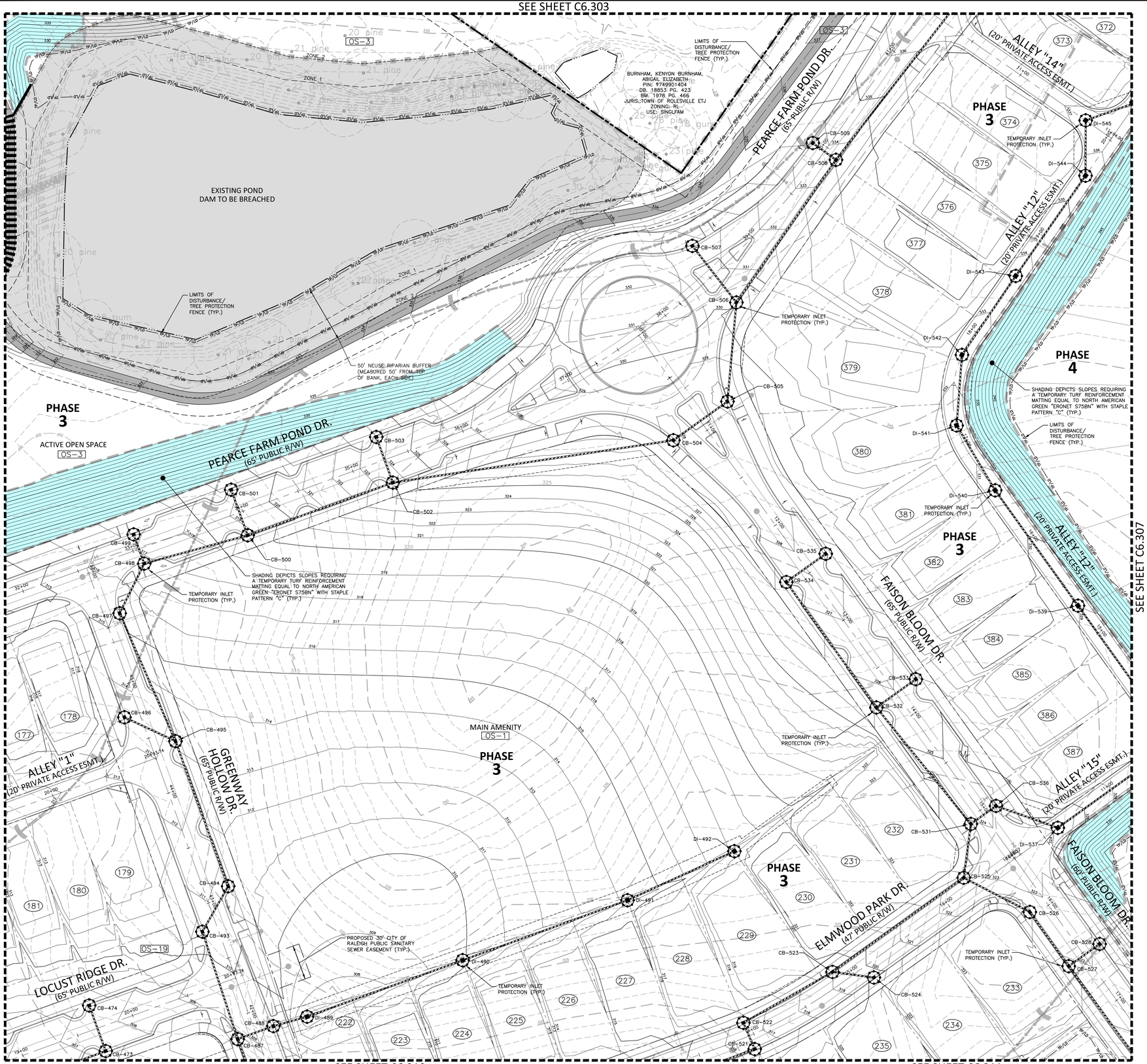
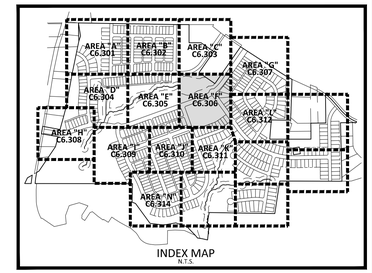
SEE SHEET C6.303





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DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 3 AREA "F"

C6.306

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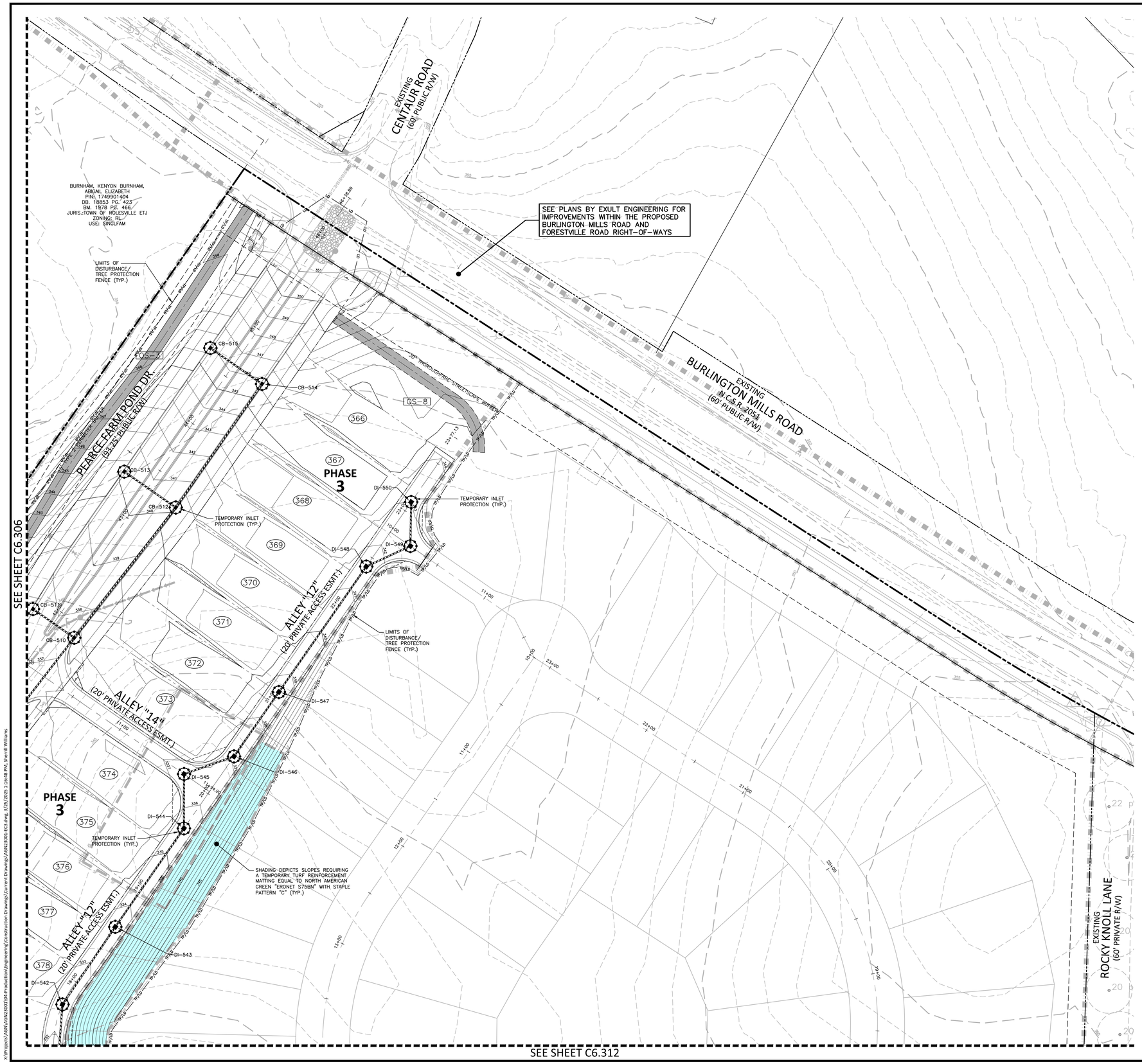

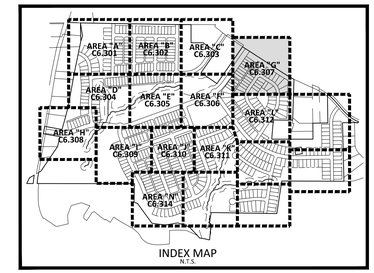

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SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 3 AREA "G"

C6.307

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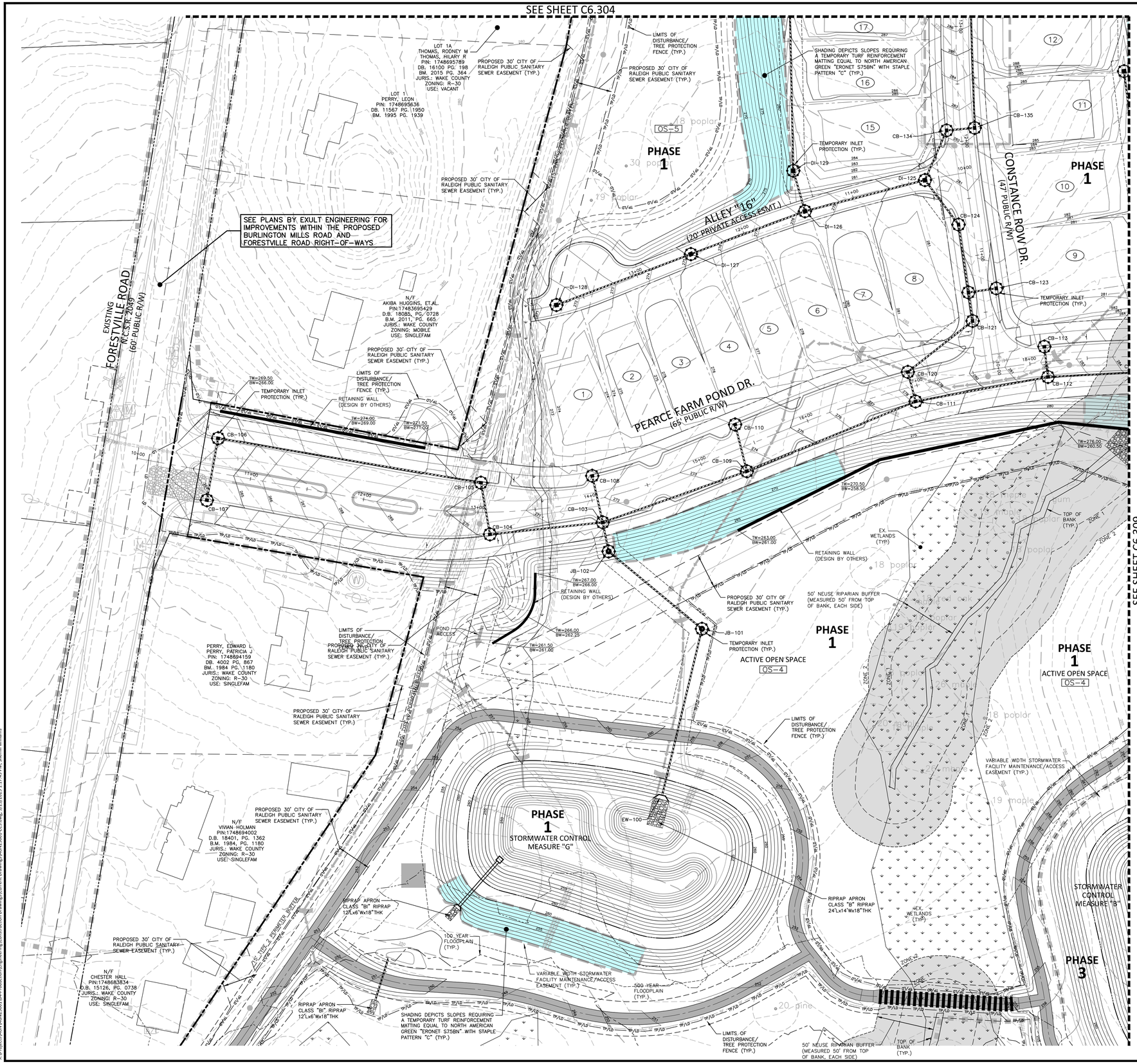

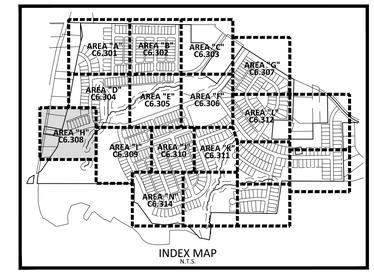

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FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 3 AREA "H"

C6.308

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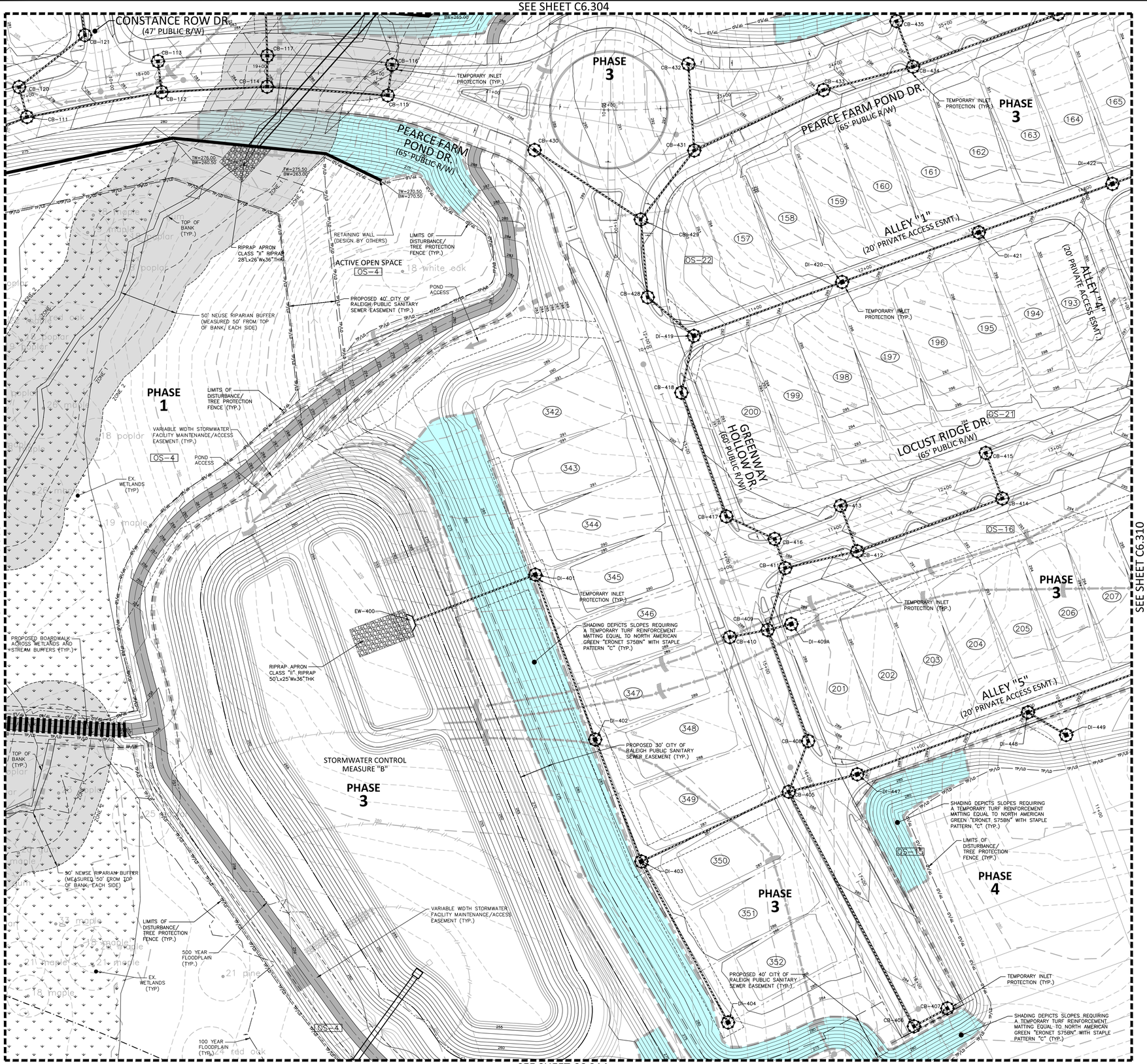

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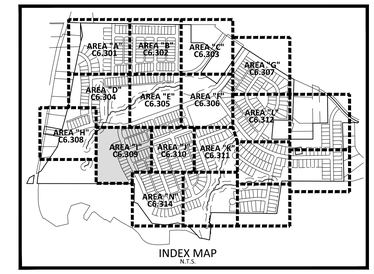

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FILENAME	AGN23001-EC3
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 3 AREA "I"

C6.309

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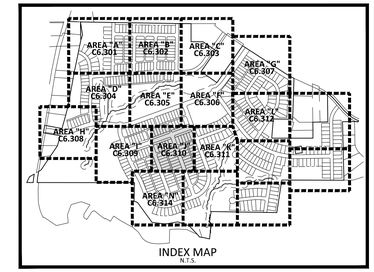

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N

GRAPHIC SCALE
0 20 40 80
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DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 3 AREA "J"

C6.310

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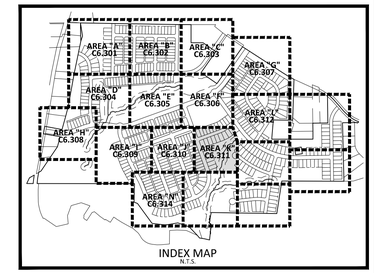
SEE SHEET C6.306

SEE SHEET C6.310

SEE SHEET C6.316

SEE SHEET C6.315



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SHEET

EROSION CONTROL PLAN STAGE 3 AREA "K"

C6.311

X:\Projects\AGN\AGN23001\04-Production\Engineering\Construction Drawings\Current Drawings\AGN23001-EC3.dwg, 3/25/2025 1:22:21 PM, Sherrill Williams

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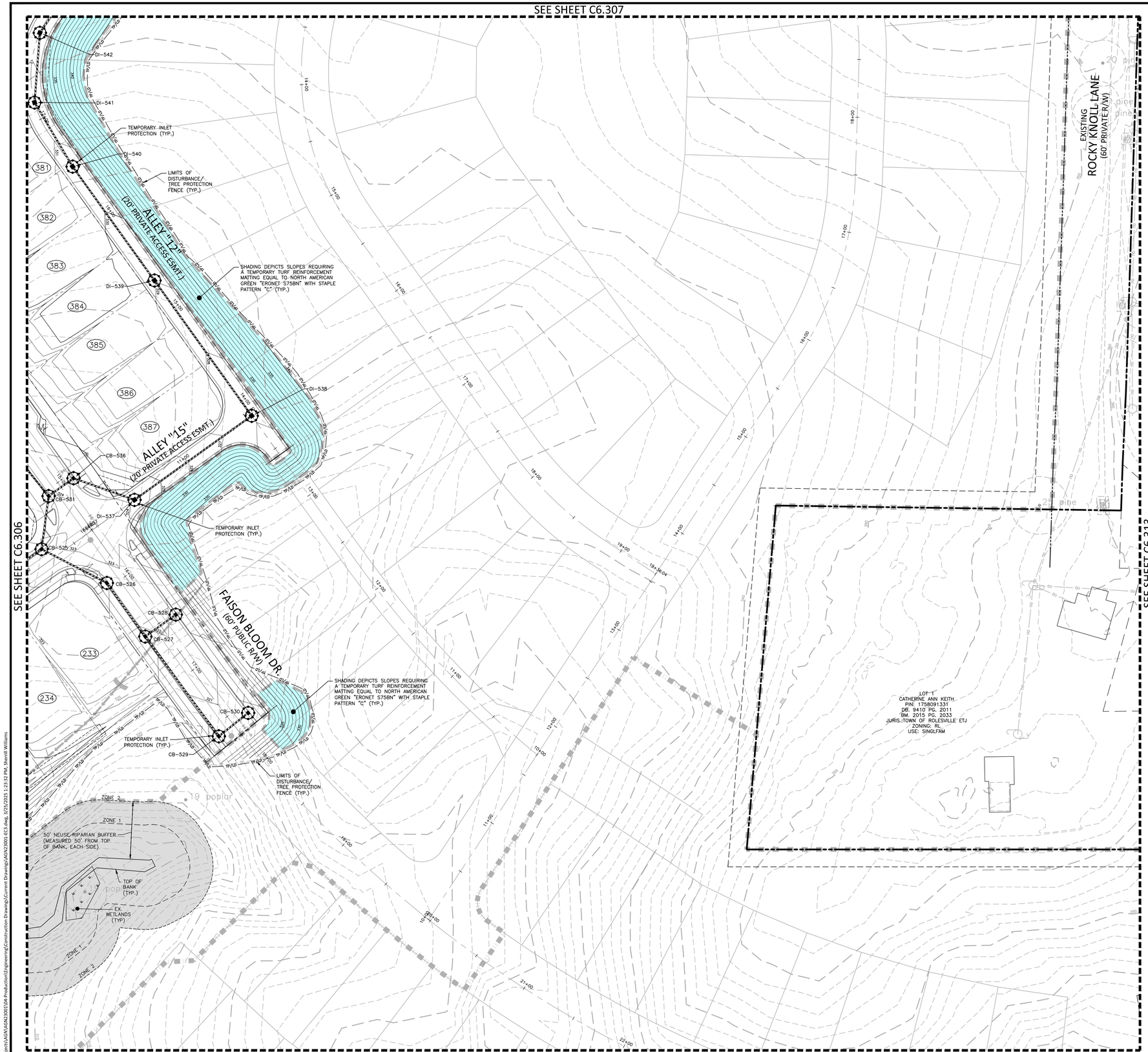
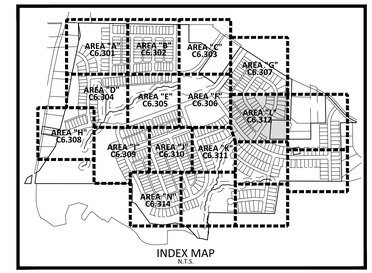
SEE SHEET C6.306

SEE SHEET C6.313

SEE SHEET C6.316





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SHEET

EROSION CONTROL PLAN STAGE 3 AREA "L"

C6.312

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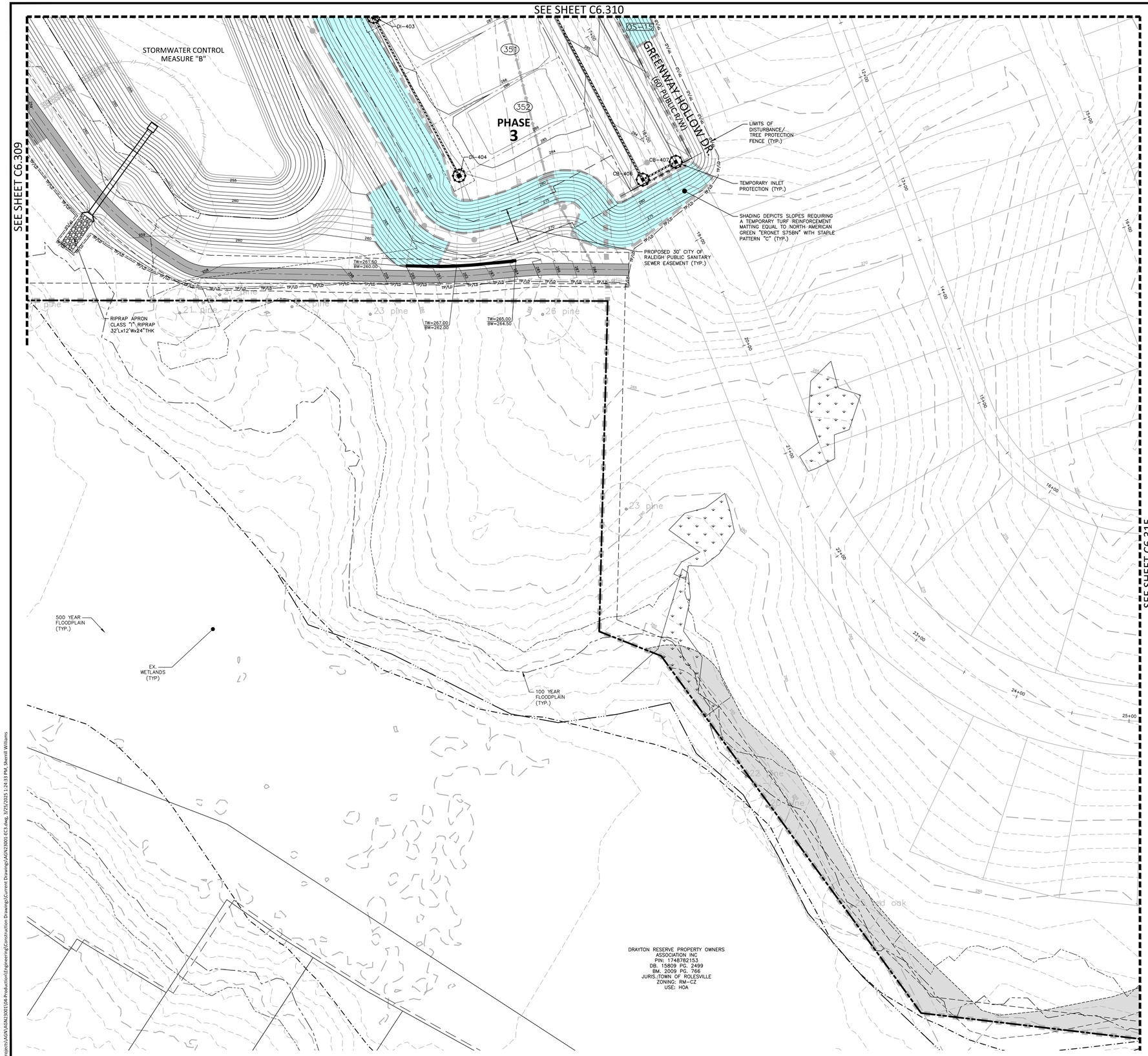

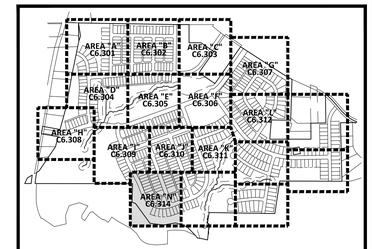

INDEX MAP
N.T.S.

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SILT FENCE
- TP — TREE PROTECTION FENCE
- LD — LIMITS OF DISTURBANCE
- TP/LD — TREE PROTECTION FENCE/ LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT (50'x25' MIN.)

SEE SHEET C6.000 FOR ALL EROSION CONTROL NOTES, CONSTRUCTION SEQUENCING, SEDIMENT BASIN AND TEMPORARY DIVERSION DITCH DATA, AND SEEDING SPECIFICATIONS

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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AGNC BROKERAGE | CONSULTING | PLANNING

PEARCE FARM - PHASES 1-3
CONSTRUCTION DRAWINGS - PACKAGE 1
BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL — NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-EC3
CHECKED BY	.
DRAWN BY	.
SCALE	1"=40'
DATE	12. 02. 2024

SHEET

EROSION CONTROL PLAN STAGE 3 AREA "N"

C6.314

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible***. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

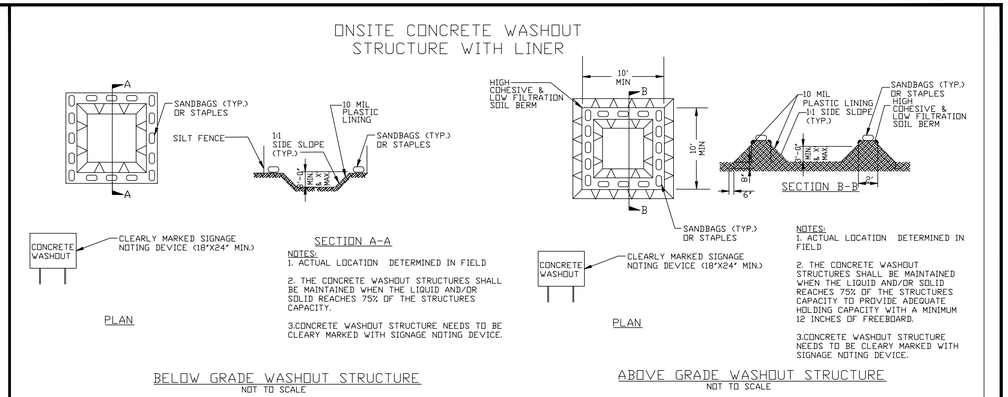
PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

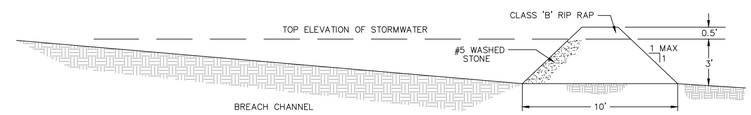
Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19





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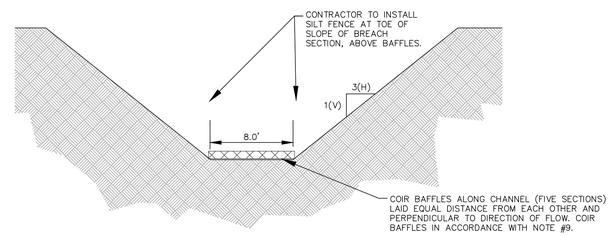
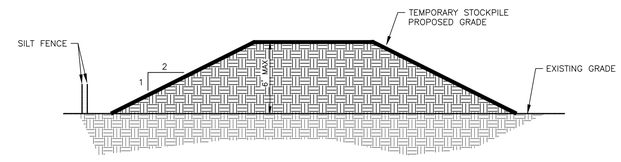


DAM EMBANKMENT BREACH SECTION
N.T.S.

NOTES:

1. STOCKPILE HEIGHT TO NOT EXCEED 6'
2. SEED/MULCH STOCKPILE IN ACCORDANCE WITH E&SC PLAN.



TYPICAL STOCKPILE DETAIL (NTS)

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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AGNC BROKERAGE | CONSULTING | PLANNING

PEARCE FARM - PHASES 1-3
CONSTRUCTION DRAWINGS - PACKAGE 1

BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL — NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AWH20000-CD-PKG-02-EC4
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	12. 02. 2024

SHEET

EROSION CONTROL DETAILS

C6.19

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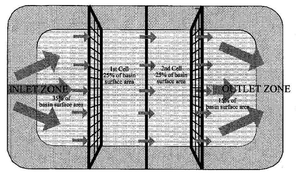
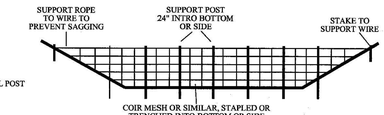
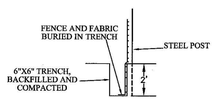


PLAN VIEW

NOTES:
1. BAFFLE MATERIAL SHOULD BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.
2. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE 1ST BAY, WHICH SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE.
3. PROVIDE 3 BAFFLES (USE TWO IF LESS THAN 20 FEET IN LENGTH). PROVIDE 5 BAFFLES FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
4. BAFFLE SHALL BE 700 G/M2 COIR EROSION BLANKET.
5. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE BERMS
6. INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH RAINFALL.

CROSS SECTION



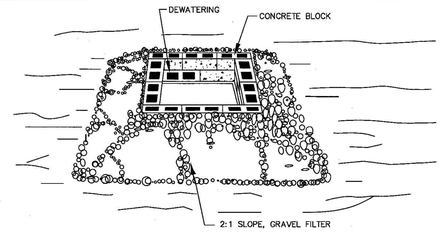


SECTION VIEW AT OPENING

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

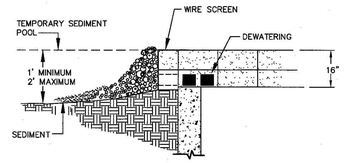
STANDARD BAFFLES DETAIL



CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2x4 WOOD STUDS THROUGH BLOCK OPENINGS.
2. CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
3. USE CLEAN GRAVEL, 3/4 TO 1/2 INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.

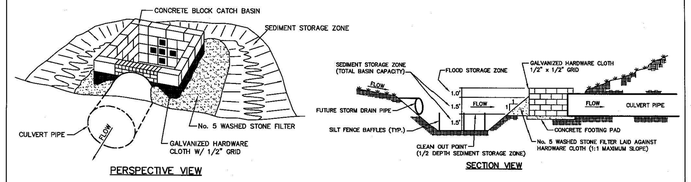
MAINTENANCE: INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.



WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

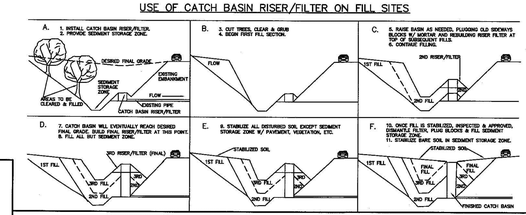
STANDARD BLOCK & GRAVEL DROP INLET PROTECTION



PERSPECTIVE VIEW

SECTION VIEW

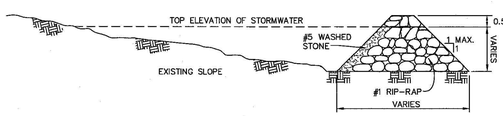
USE OF CATCH BASIN RISER/FILTER ON FILL SITES



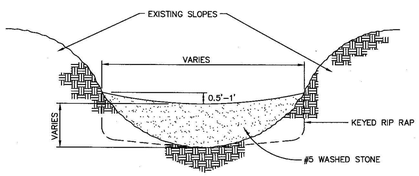
WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD CATCH BASIN RISER/FILTER



SIDE VIEW



FRONT VIEW

CONSTRUCTION NOTES:

HEIGHT & WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.

KEY RIP RAP INTO THE DAM FOR STABILIZATION.

STEP SEQUENCE

NOTE: REMOVE SEDIMENT ACCUMULATION FROM BEHIND CHECK DAMS TO PREVENT DAMAGE TO CHANNEL VEGETATION. FLOW SHOULD BE MAINTAINED THROUGH THE DAM.

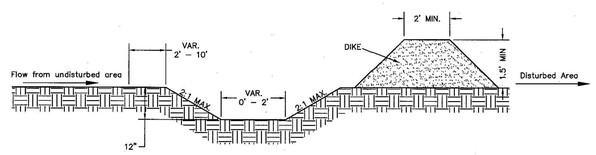
WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD CHECK DAM

NOTES:

1. DIVERSION TO BE USED UPSLOPE OF A CONSTRUCTION SITE TO PREVENT STORM RUNOFF FROM ENTERING THE DISTURBED AREA.
2. IMMEDIATELY LINE AND STABILIZE BEFORE ANY DOWNSLOPE GRADING BEGINS (STABILIZATION MUST OCCUR BEFORE ISSUANCE OF A CERTIFICATE OF COMPLIANCE). STABILIZATION METHOD IS BASED ON VELOCITY OF OFFSITE DRAINAGE.
3. DIVERSIONS SHOULD ONLY BE USED FOR DRAINAGES 5 ACRES OR LESS.
4. ANY SEDIMENT LADEN WATER PRIOR TO STABILIZATION OF THE DIVERSION MUST BE DIVERTED INTO AN APPROVED EROSION AND SEDIMENT CONTROL BMP. CLEAN WATER SHOULD EMPTY INTO AN APPROVED OUTLET DEVICE.

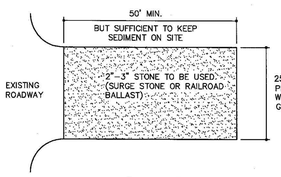


CROSS SECTIONAL VIEW

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

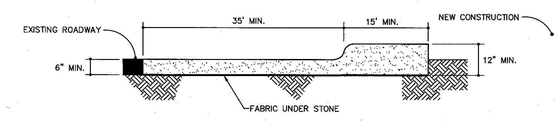
STANDARD CLEAN WATER DIVERSION



PLAN VIEW

NOTES:

1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING CONSTRUCTION SITE. ENTRANCE WILL REQUIRE PERIODIC REMOVAL OF SEDIMENT-LADEN STONE AND REPLACEMENT WITH FRESH STONE.



CROSS SECTION

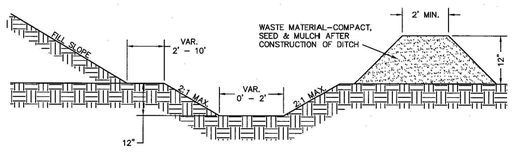
WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD CONSTRUCTION ENTRANCE

NOTES:

1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP.
2. SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL.
3. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
4. STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC, AND/OR EROSION CONTROL NETTING.

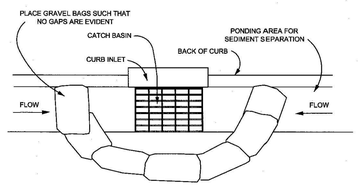


CROSS SECTIONAL VIEW

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

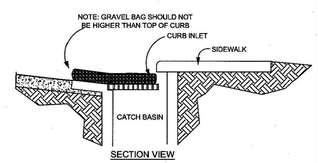
STANDARD TEMPORARY DIVERSION DITCH



PLAN VIEW

NOTES:

1. PLACE GRAVEL BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNNOFF.
2. USE SAND BAGS OF WOVEN GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH $\frac{3}{4}$ INCH (OR SMALLER) GRAVEL. BAGS MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.
4. WHEN INSTALLING CURB INLET PROTECTION DEVICES, **NEVER** BLOCK THE CURB INLET.

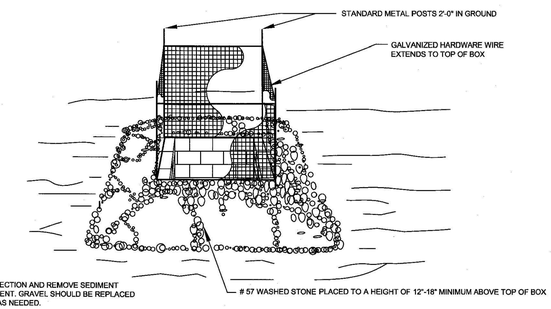


SECTION VIEW

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD GRAVEL BAG CURB INLET PROTECTION



NOTE:

1. INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD GRAVEL YARD INLET PROTECTION

MCADAMS

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CLIENT

ALLIANCE GROUP OF NC, LLC
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PHONE: 919. 239. 9486

AGNC BROKERAGE | CONSULTING | PLANNING

PEARCE FARM - PHASES 1-3
CONSTRUCTION DRAWINGS - PACKAGE 1

BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AWH20000-CD-PKG-02-EC4
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	12. 02. 2024

SHEET

EROSION CONTROL DETAILS

C6.20

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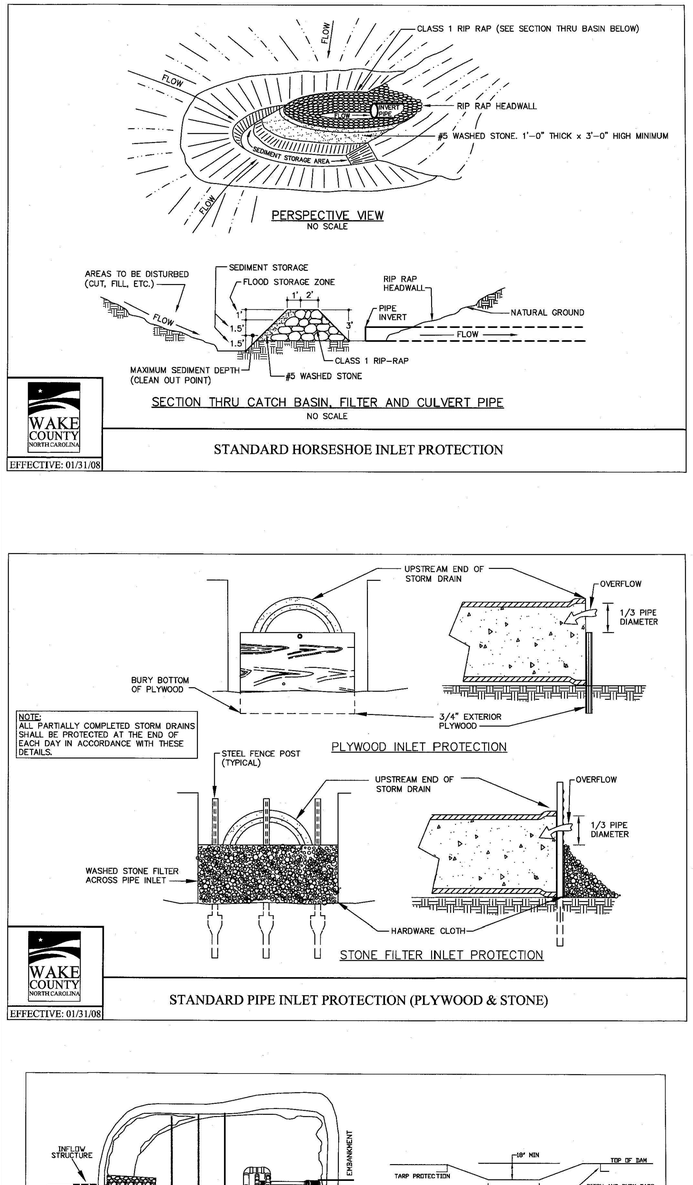
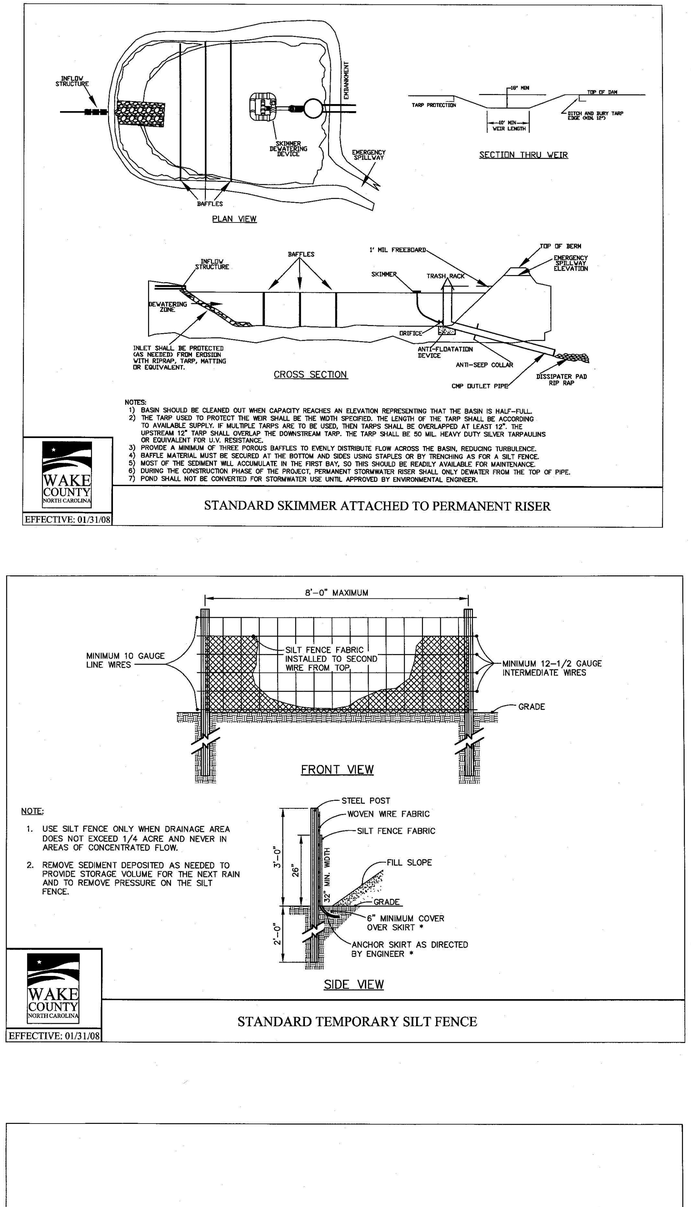
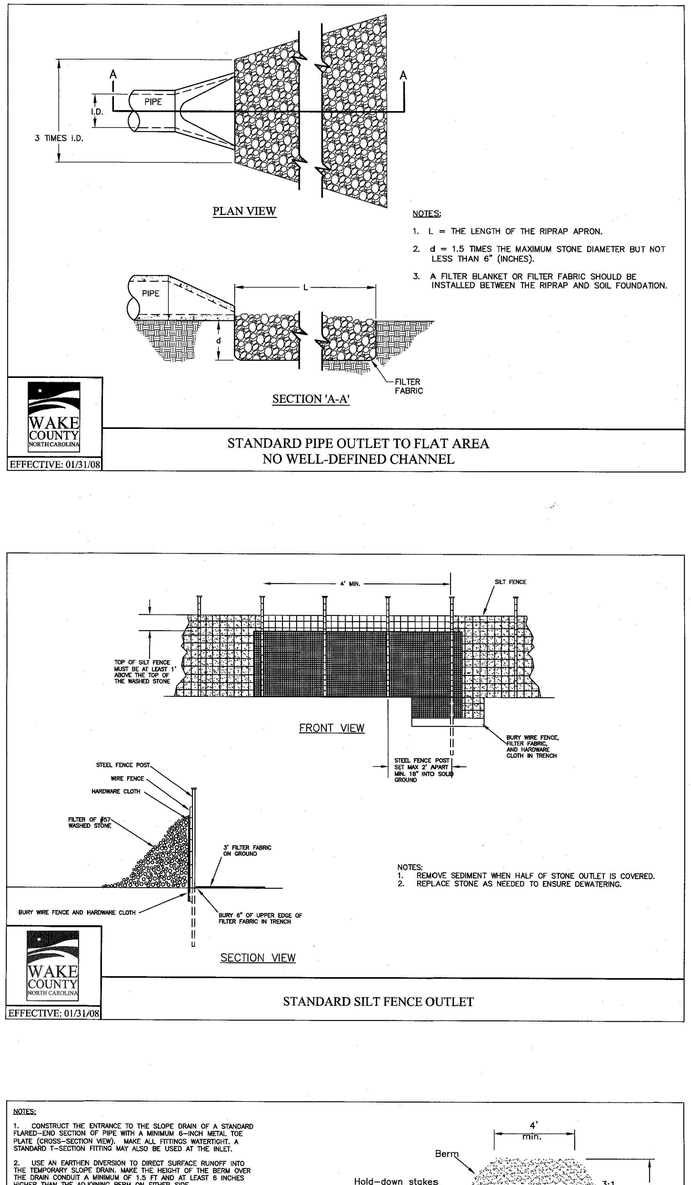
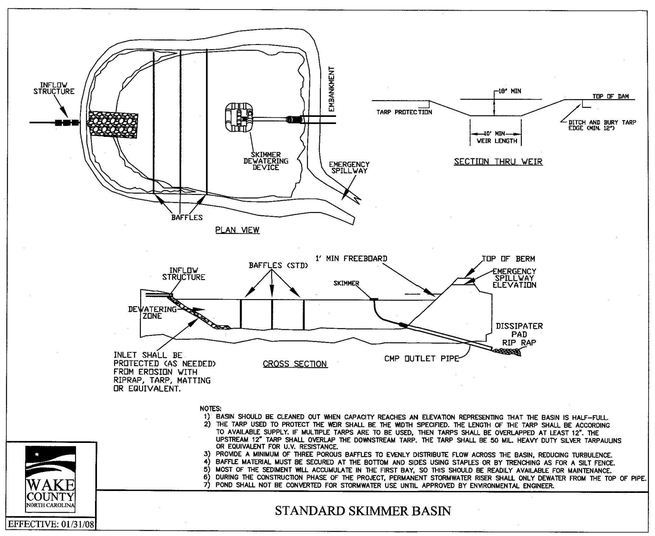
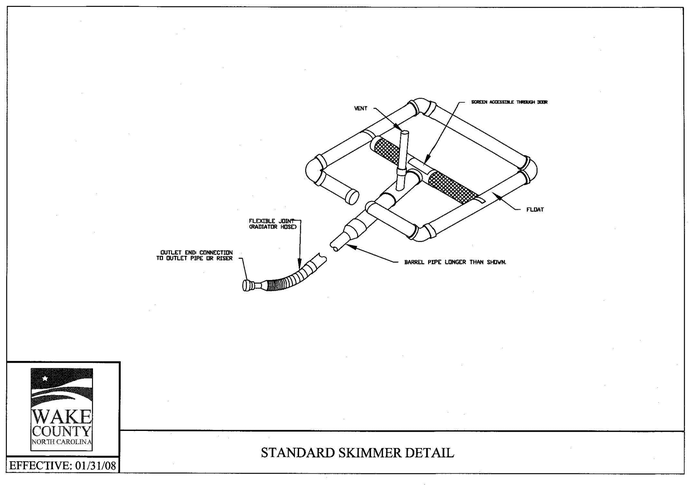
FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

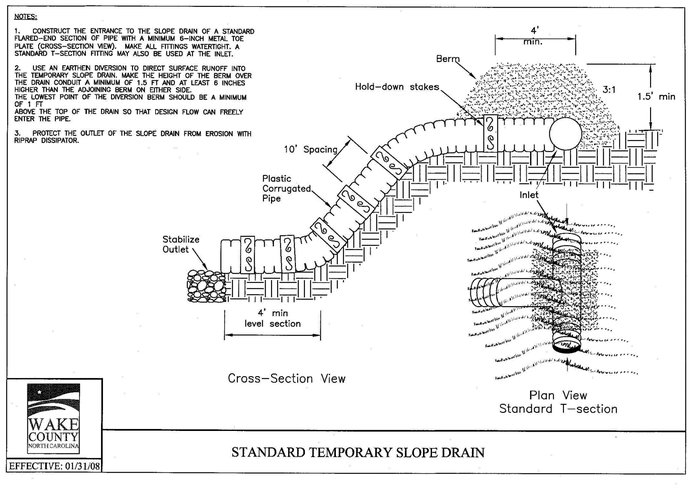












FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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PEARCE FARM - PHASES 1-3
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BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22630 WILLIAM T. O'DANIEL

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PLAN INFORMATION

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FILENAME	AWH20000-CD-PKG-02-EC4
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	12. 02. 2024

SHEET

EROSION CONTROL DETAILS

C6.21

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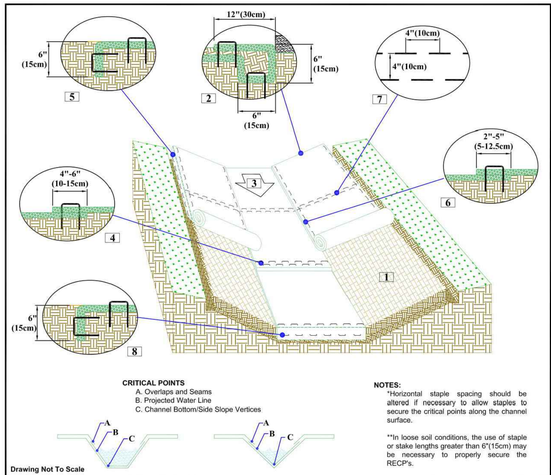


CHANNEL INSTALLATION DETAIL

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the channel by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental shore protection as needed. Anchor the RECPs with a row of staples/stakes approximately 12"(30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" apart across the width of the RECPs.
3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. Place consecutive RECPs end-over-end (Shingle style) with a 4"-6" overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
5. Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes approximately 12"(30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.
6. Adjacent RECPs must be overlapped approximately 2"-5" (5-12.5cm) (Depending on RECPs type) and stapled.
7. In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9 -12m) intervals. Use a double row of staples staggered 4"(10cm) apart and 4"(10cm) on center over entire width of the channel.
8. The terminal end of the RECPs must be anchored with a row of staples/stakes approximately 12" (30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.

NOTES:

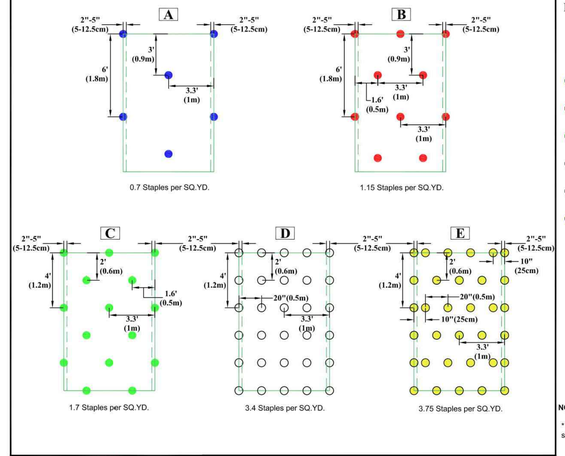
*Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

**In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECP's.

NORTH AMERICAN GREEN
5401 St. Wendel - Cynthiana Rd. PH: 800-722-2040
Poseyville, IN 47633 www.nagreen.com

Disclaimer:
The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

Drawn on: 5-4-17



STAPLE PATTERN GUIDE

- 4:1 Slopes (A)
- 3:1 Slopes (B)
- 2:1 Slopes (C)
- 1:1 & Steeper Slopes (D)
- Medium/High Flow Channel (D)
- High Flow Channel And Shoreline (E)

NOTES:

* Use ECMDS® for more accurate staple pattern selection.

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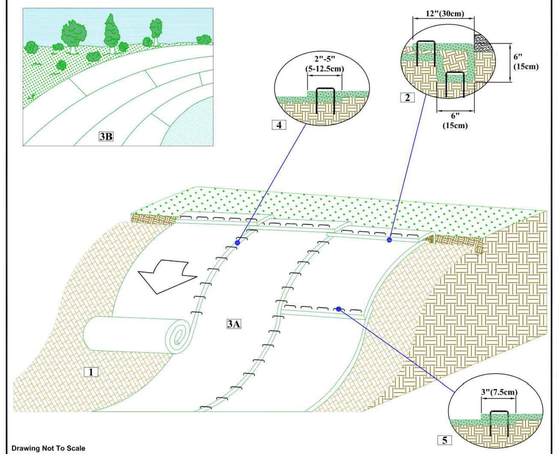
Drawing Not To Scale



SLOPE INSTALLATION DETAIL

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the slope by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12" (30cm) of RECPs extended beyond the up-slope portion of the trench. Anchor the RECPs with a row of staples/stakes approximately 12" (30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12"(30cm) apart across the width of the RECPs.
3. Roll the RECPs (A) down or (B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. The edges of parallel RECPs must be stapled with approximately 2" - 5" (5-12.5cm) overlap depending on the RECPs type.
5. Consecutive RECPs spliced down the slope must be end over end (Shingle style) with an approximate 3"(7.5cm) overlap. Staple through overlapped area, approximately 12"(30cm) apart across entire RECPs width.

*NOTE:
In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECP's.

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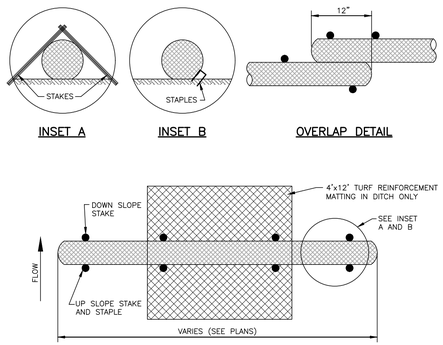


NOTES:

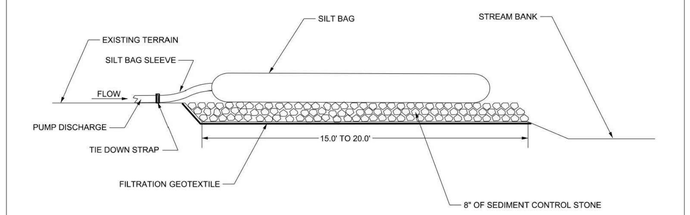
1. USE MINIMUM 12" DIAMETER WATTLE (LARGER WATTLES MAY BE REQUIRED TO KEEP SEDIMENT ON SITE).
2. USE 2' WOODEN STAKES WITH A 2" NOMINAL CROSS SECTION.
3. INSTALL A MINIMUM OF TWO UP SLOPE STAKES AND 4 DOWN SLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO EXISTING GRADE.
4. PROVIDE STAPLES OF 0.125" DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 6" IN LENGTH.
5. INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON THE UP SLOPE SIDE OF THE WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

MAINTENANCE:

1. WATTLES SHOULD BE CHECKED AND CLEARED OF ACCUMULATED DEBRIS AND SEDIMENT.
2. REPLACE AS REQUIRED.

TEMPORARY WATTLE DETAIL

N.T.S.



NOTES:
1. USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.

2. PROVIDE STABILIZED OUTLET TO STREAM BANK.

3. WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE SPECIAL STILLING BASIN ABOVE NATURAL GROUND.

4. THE SIZE AND NUMBER OF SILT BAGS SHOULD BE BASED ON THE DEWATERING PUMP AND MANUFACTURER RECOMMENDATIONS.

5. TIGHTLY SECURE THE PUMP DISCHARGE TO THE SILT BAG SLEEVE WITH A STRAP OR SIMILAR DEVICE TO PREVENT WATER/SEDIMENT FROM LEAKING WITHOUT TREATMENT.

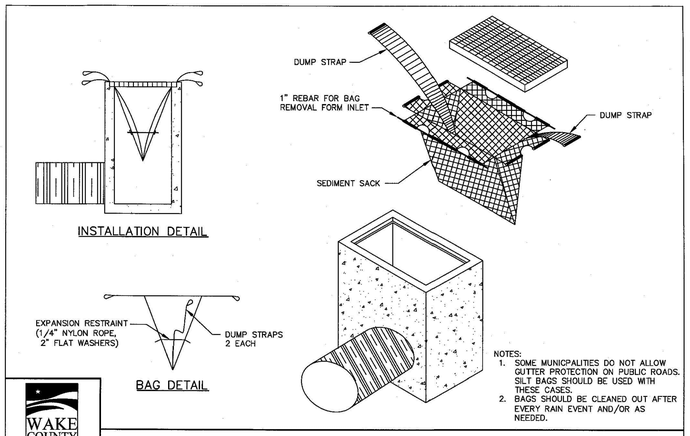
6. CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE SILT BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITHIN SEDIMENT, REDUCE THE PUMP RATE.

7. REPLACE THE SILT BAG WHEN ONE HALF (1/2) FULL OF SEDIMENT.

8. SILT BAG DEVICE MUST BE ≥ 50FT FROM THE TOP OF THE STREAM BANK AND WATER MUST BE DISCHARGED IN A DIFFUSE MANNER.

SILT BAG

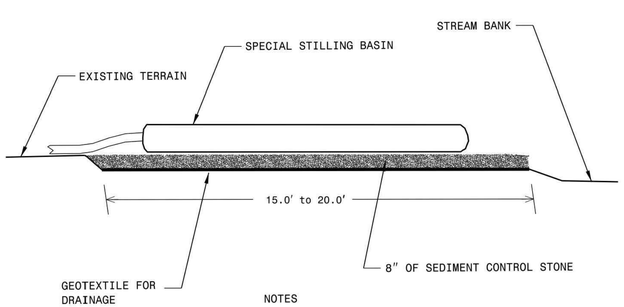
NOT TO SCALE



NOTES:
1. SOME MUNICPALITIES DO NOT ALLOW GUTTER PROTECTION ON PUBLIC ROADS. SILT BAGS SHOULD BE USED WITH THESE CASES.
2. BAGS SHOULD BE CLEANED OUT AFTER EVERY RAIN EVENT AND/OR AS NEEDED.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD SILT BAG - INLET SEDIMENT CONTROL DEVICE



NOTES

USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.

PROVIDE STABILIZED OUTLET TO STREAM BANK.

WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE SPECIAL STILLING BASIN ABOVE NATURAL GROUND.

NOT TO SCALE

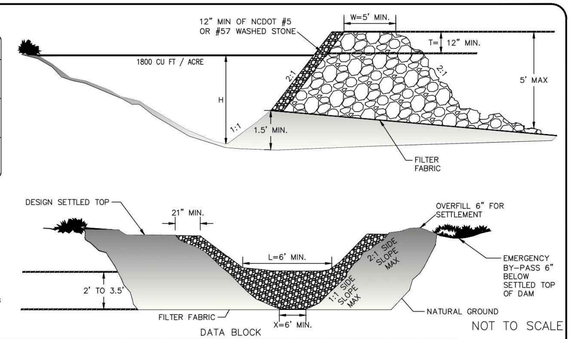
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-18

ROADWAY STANDARD DRAWING FOR
SPECIAL STILLING BASIN

SHEET 1 OF 1
1630.06

TEMPORARY SEDIMENT TRAP DESIGN CRITERIA	
DRAINAGE AREA (ACRES)	< 1 AC.
MIN. LENGTH TO WIDTH RATIO	2:1
MIN. VOLUME REQUIRED	1800 (CU. FT. PER AC. DISTURBED)



NOTE:

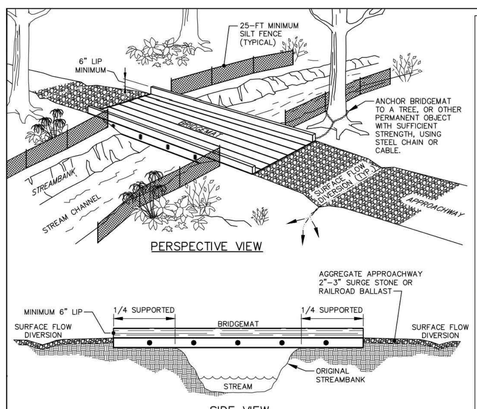
PLEASE REFER TO NCESCPOM SECTION #6.60 FOR ADDITIONAL DESIGN SPECIFICATIONS REGARDING TEMPORARY SEDIMENT TRAPS.

DATA BLOCK

TRAP NO.	DRAINAGE AREA (ACRES)	DENUDED AREA (ACRES)	Q10 (CFS)	TRAP VOLUME REQUIRED (CUBIC FT.)	TRAP VOLUME PROVIDED (CUBIC FT.)	CLEANOUT DEPTH (FT.) H/2	H (FEET)	L (FEET)	T (FEET)	W (FEET)	X (FEET)
RB-1	1	2.45	7.25	4410	5622	0.75	1.5	10	1	5	6
RB-2	0.15	0.15	0.44	270	280	1	2	6	1	5	6
RB-3	0.09	0.09	0.27	162	180	1	2	6	1	5	6
RB-4	0.14	0.14	0.41	252	260	1	2	6	1	5	6
RB-5	0.10	0.10	0.30	180	180	1	2	6	1	5	6

RIP RAP BASIN

NOT TO SCALE



INSTALLATION NOTES:

1. REFER TO "NORTH CAROLINA DIVISION OF FOREST RESOURCES" LITERATURE, INSTALLATION MAINTENANCE GUIDELINES, & "NORTH CAROLINA FORESTRY BMP MANUAL-2006".
2. INSTALL WATER DIVERSION DEVICES (WATER BARS, TURNOUTS, BROAD-BASED DIPS, ETC.) ON BOTH SIDES OF THE MATS.
3. STABILIZE EXPOSED MINERAL SOIL WITH TREE TOPS OR BRUSH DURING MAT INSTALLATION, AND SEEDING/MULCH AFTER MAT REMOVAL.
4. INSTALL MATS TO CREATE A MINIMUM TEN FOOT BRIDGE WIDTH.
5. INCLUDE COARSE AGGREGATE ON THE APPROACHWAY FOR A MINIMUM OF 25 FEET AND SILT FENCE ALONG STREAMBANKS ADJACENT TO CROSSING FOR A MINIMUM OF 25 FEET.

MAINTENANCE NOTES:

1. KEEP MATS' SURFACE FREE OF MINERAL SOIL AND DEBRIS THAT COULD ENTER STREAM.
2. PERIODICALLY CHECK MAT HARDWARE; RETIGHTEN NUTS & CABLE CLAMPS AS NECESSARY TO MAINTAIN BRIDGE STRENGTH AND INTEGRITY.
3. IMMEDIATELY REMOVE ANY DEBRIS WHICH ENTERS THE STREAM AT THE CROSSING LOCATION.

REMOVAL NOTES:

1. CLEAN OFF BRIDGE SURFACE.
2. REMOVE MATS BY USING MAT CABLE LOOP OR SKIDDER GRAPPLE.
3. PERMANENTLY STABILIZE DISTURBED PORTIONS OF STREAMBANK AND APPROACH ROADS WITH PERENNIAL GRASSES/MULCH (OR WETLAND MIX WHEN APPLICABLE).
4. LEAVE APPROPRIATE WATER DIVERSION STRUCTURES IN PLACE ON BOTH SIDES OF STREAM.
5. RESTORE THE STREAM CHANNEL TO ITS ORIGINAL CROSS-SECTION, AND SMOOTH AND APPROPRIATELY STABILIZE ALL DISTURBED AREAS.

STANDARD TEMPORARY STREAM CROSSING OPTION

MCADAMS
The John R. McAdams Company, Inc.
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7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
CONTACT: JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC BROKERAGE | CONSULTING | PLANNING

PEARCE FARM - PHASES 1-3
CONSTRUCTION DRAWINGS - PACKAGE 1

BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22630 WILLIAM T. O'DANIEL
NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AWH20000-CD-PKG-02-EC4
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	12. 02. 2024

SHEET

EROSION CONTROL DETAILS

C6.22

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

X:\Projects\AGN\AGN23001\04-Production\Engineering\Construction Drawings\Current Drawings\AGN23001-EC4.dwg, 3/25/2025 12:35:52 PM, Sherrill Williams

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

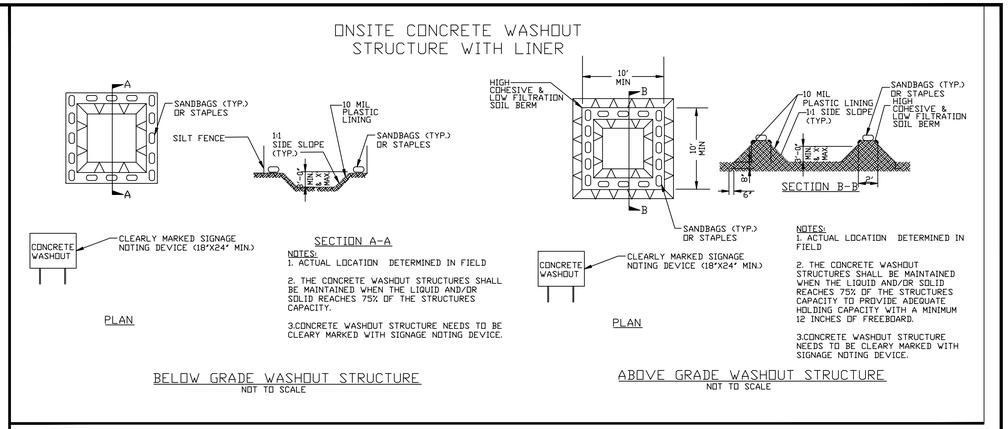
1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

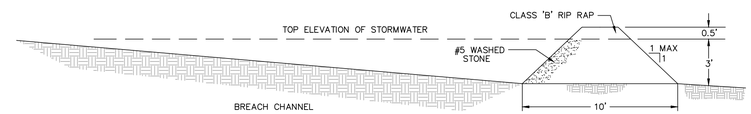
HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

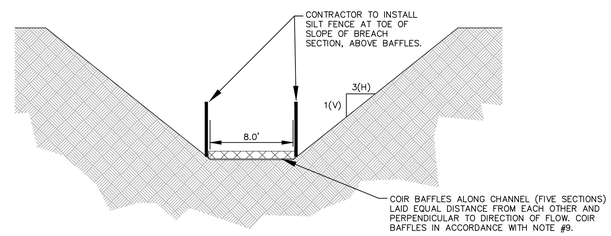
NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

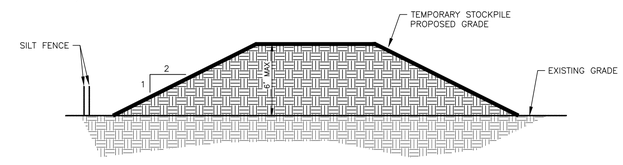




FILTER BERM
NTS



DAM EMBANKMENT BREACH SECTION
N.T.S.



TYPICAL STOCKPILE DETAIL (NTS)

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible***. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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fax 919. 361. 2269
license number: C-0293, C-187

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CLIENT

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PHONE: 919. 239. 9486

AGNC BROKERAGE | CONSULTING | PLANNING

PEARCE FARM - PHASES 1-3
CONSTRUCTION DRAWINGS - PACKAGE 1
BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

NORTH CAROLINA PROFESSIONAL SEAL 054404 ENGINEER MARIA C. TORRES — NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

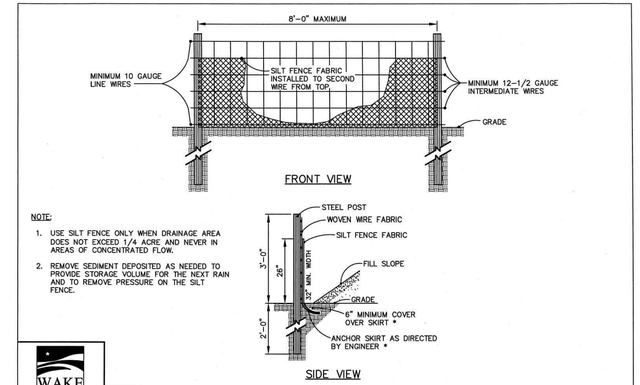
PROJECT NO.	AGN23001
FILENAME	AGN23001-D1
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	12. 02. 2024

SHEET

DAM BREACH DETAILS

C6.23

X:\Projects\AGN\AGN23001\04-Production\Water Resources\Stormwater Management\Dam Breach\Current Drawings\AGN23001-D1.dwg, 3/28/2025 3:57:06 PM, Mirabelle Javellana



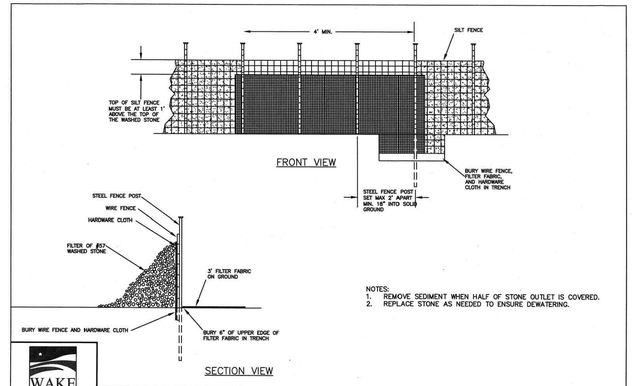
NOTE:

1. USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.
2. REMOVE SEDIMENT DEPOSITED AS NEEDED TO PROVIDE STORAGE VOLUME FOR THE NEXT RAIN AND TO REMOVE PRESSURE ON THE SILT FENCE.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD TEMPORARY SILT FENCE



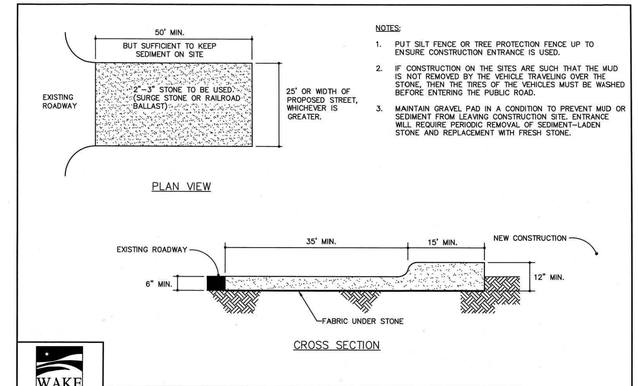
NOTES:

1. REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED.
2. REPLACE STONE AS NEEDED TO ENSURE DEWATERING.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD SILT FENCE OUTLET



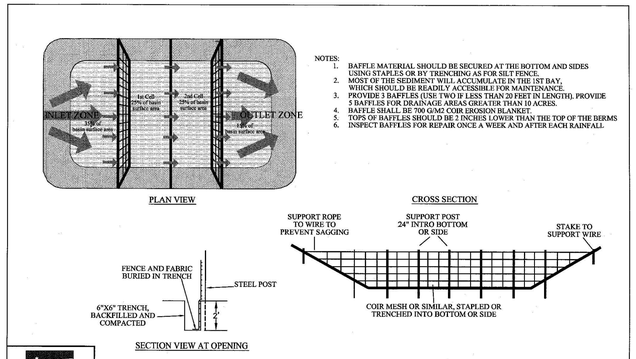
NOTES:

1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING CONSTRUCTION SITE. ENTRANCE WILL REQUIRE PERIODIC REMOVAL OF SEDIMENT-LADEN STONE AND REPLACEMENT WITH FRESH STONE.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD CONSTRUCTION ENTRANCE



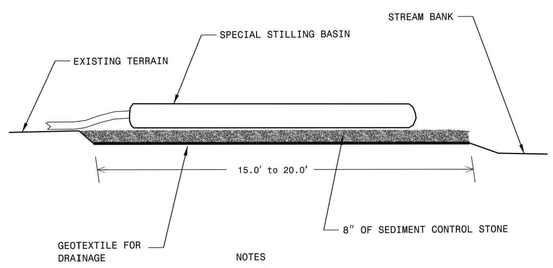
NOTES:

1. BAFFLE MATERIAL SHOULD BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.
2. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE 1ST BAY, WHICH SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE.
3. PROVIDE 3 BAFFLES (USE TWO IF LESS THAN 20 FEET IN LENGTH), PROVIDE 5 BAFFLES FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
4. BAFFLE SHALL BE 700 G/M2 COIR EROSION BLANKET.
5. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE BERMS
6. INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH RAINFALL.

WAKE COUNTY NORTH CAROLINA

EFFECTIVE: 01/31/08

STANDARD BAFFLES DETAIL



NOTES

USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.

PROVIDE STABILIZED OUTLET TO STREAM BANK.

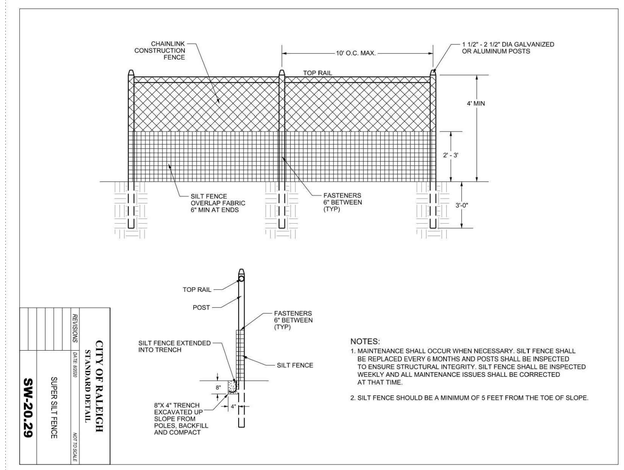
WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE SPECIAL STILLING BASIN ABOVE NATURAL GROUND.

NOT TO SCALE

1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR **SPECIAL STILLING BASIN**

SHEET 1 OF 1 **1630.06**



NOTES:

1. MAINTENANCE SHALL OCCUR WHEN NECESSARY. SILT FENCE SHALL BE REPLACED EVERY 6 MONTHS AND POSTS SHALL BE INSPECTED TO ENSURE STRUCTURAL INTEGRITY. SILT FENCE SHALL BE INSPECTED WEEKLY AND ALL MAINTENANCE ISSUES SHALL BE CORRECTED AT THAT TIME.
2. SILT FENCE SHOULD BE A MINIMUM OF 5 FEET FROM THE TOE OF SLOPE.

CITY OF RALEIGH STANDARD DETAIL

REVISIONS: DATE 6/2005 NO CITY STAMP

SUPER SILT FENCE

SW-20.29

MCADAMS

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CLIENT

ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
RALEIGH, NORTH CAROLINA 27615
CONTACT: JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC BROKERAGE | CONSULTING | PLANNING

PEARCE FARM - PHASES 1-3
CONSTRUCTION DRAWINGS - PACKAGE 1
BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

NORTH CAROLINA PROFESSIONAL SEAL 054404 ENGINEER MARIA C. TORRES
NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-D1
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	12. 02. 2024

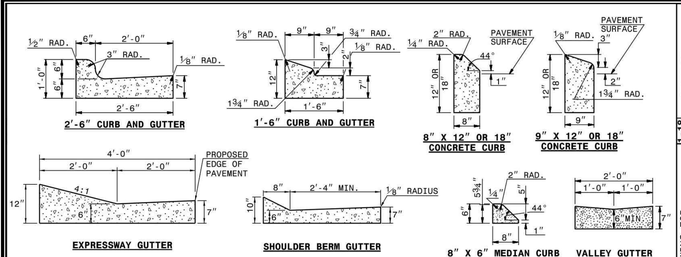
SHEET

DAM BREACH DETAILS

C6.24

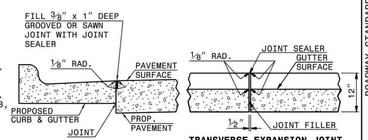
FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

X:\Projects\AGN\AGN23001\04-Production\Water Resources\Stormwater Management\Dam Breach\Current Drawings\AGN23001-D1.dwg, 3/28/2025 3:57:18 PM, Mirabelle Javellana



SECTION VIEW OF CURBS OR CURBS AND GUTTERS

GENERAL NOTES:
- PLACE CONTRACTION JOINTS AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS.
- JOINT SPACING MAY BE ALTERED IF REQUIRED BY THE ENGINEER.
- CONTRACTION JOINTS MAY BE INSTALLED WITH THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS.
- CONSTRUCT NON-TEMPLATE FORMED JOINTS A MIN. OF 1½" DEEP.
- FILL ALL CONSTRUCTION JOINTS, EXCEPT IN 8"x6" MEDIAN CURB, WITH JOINT FILLER AND SEALER.
- SPACE EXPANSION JOINTS AT 90' INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.



SECTION VIEW OF JOINTS

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-18

ROADWAY STANDARD DRAWING FOR
CONCRETE CURB, GUTTER AND CURB & GUTTER

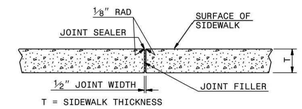
SHEET 1 OF 3
846.01

NOTES:

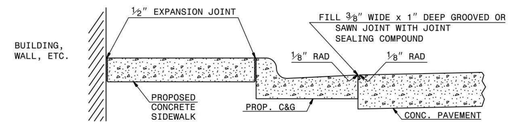
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

PLACE A GROOVE JOINT 1" DEEP WITH ⅛" RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE ½" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A ½" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.05 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.



TRANSVERSE EXPANSION JOINT IN SIDEWALK



DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

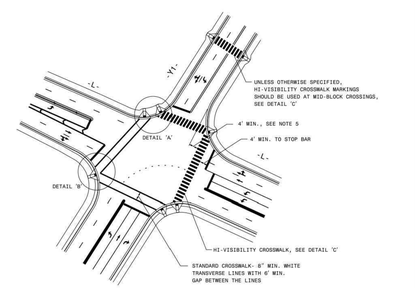
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

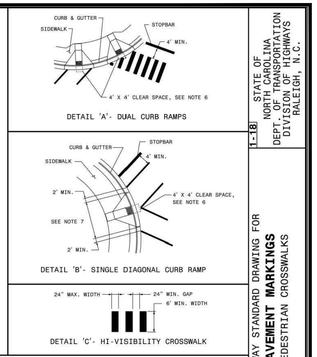
1-18

ROADWAY STANDARD DRAWING FOR
CONCRETE SIDEWALK

SHEET 1 OF 1
848.01

CROSSWALK PLACEMENT GUIDANCE





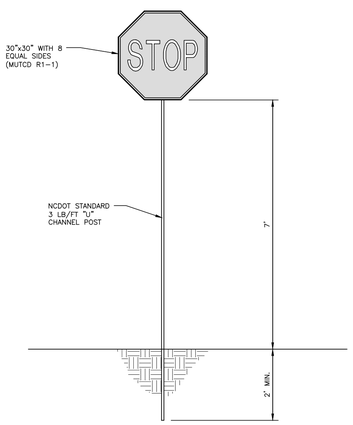
GENERAL NOTES:
1- USE THE DETAILS ABOVE AND THE FOLLOWING NOTES FOR GUIDANCE IN PLACING CROSSWALK MARKINGS. REFER TO NCDOT ROADWAY STANDARD DRAWINGS, MUTCD AND ASA STANDARDS FOR ADDITIONAL GUIDANCE.
2- THE LOCATION AND TYPE OF CROSSWALK MARKINGS SHOWN ON THE ABOVE DETAILS ARE FOR REFERENCE ONLY. LOCATE CROSSWALK MARKINGS AS SHOWN ON THE PROJECT DETAIL SHEETS OR AS DIRECTED BY THE ENGINEER. THE CROSSWALK MARKING TYPE, STANDARD OR HI-VISIBILITY, SHALL BE INSTALLED AS SPECIFIED ON THE PROJECT DETAIL SHEETS OR AS DIRECTED BY THE ENGINEER.
3- THE STANDARD CROSSWALK IS TWO WHITE 8" MIN. TRANSVERSE LINES WITH A 6' MIN. GAP BETWEEN THE LINES. THE HI-VISIBILITY CROSSWALK IS WHITE 24" MAX. WIDE LONGITUDINAL LINES WITH 24" MIN. GAPS BETWEEN LINES, SEE DETAIL 'C'. HI-VISIBILITY CROSSWALKS SHOULD BE A MINIMUM OF 6' WIDE. CURB RAMPS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARES.
4- STOP BARS SHOULD BE PLACED 4 4' MIN. IN ADVANCE OF NEAREST CROSSWALK LINE.
5- SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL IS 4' MIN.
6- BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE OF 4' X 4' MIN. SHALL BE PROVIDED WITHIN THE MARKINGS.
7- SINGLE DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 2' MIN. LONG LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING, SEE DETAIL 'B'.
8- CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE LATEST NCDOT ROADWAY STANDARD DRAWINGS. CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS. CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR DETAILS OR A SPECIAL DESIGN.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

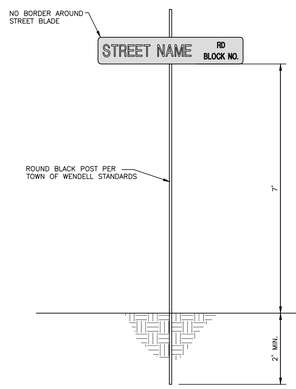
1-18

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
PEDESTRIAN CROSSWALKS

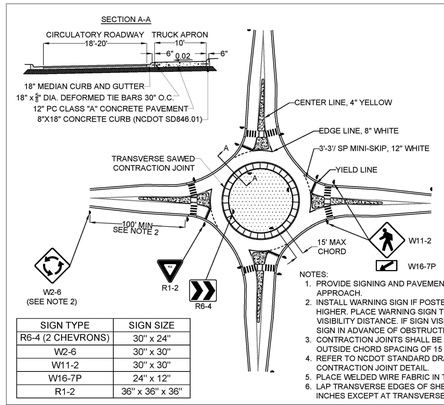
SHEET 1 OF 1
1205.07



STOP SIGN DETAIL
N.T.S.



STREET SIGN DETAIL
N.T.S.

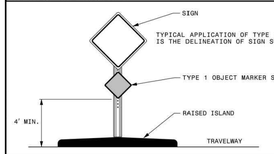


SIGN TYPE	SIGN SIZE
R6-4 (2 CHEVRONS)	30" x 24"
W2-6	30" x 30"
W11-2	30" x 30"
W16-7P	24" x 12"
R1-2	36" x 36" x 36"

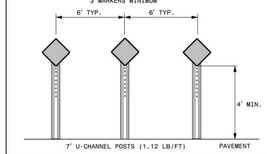
NOTES:
1. PROVIDE SIGNING AND PAVEMENT MARKINGS ON EACH LEG OF THE APPROACH.
2. INSTALL WARNING SIGN IF POSTED SPEED LIMIT IS 40 MPH OR HIGHER. PLACE WARNING SIGN TO PROVIDE 180 FEET MINIMUM VISIBILITY DISTANCE. IF SIGN VISIBILITY IS OBSTRUCTED, PLACE SIGN IN ADVANCE OF OBSTRUCTION.
3. CONTRACTION JOINTS SHALL BE EQUALLY SPACED, WITH MAX OUTSIDE CHORD SPACING OF 15 FEET.
4. REFER TO NCDOT STANDARD DRAWINGS 700.01 FOR TRANSVERSE CONTRACTION JOINT DETAIL.
5. PLACE WELDED WIRE FABRIC IN THE CENTER OF SLAB.
6. LAP TRANSVERSE EDGES OF SHEETS OF WELDED WIRE FABRIC 12 INCHES EXCEPT AT TRANSVERSE EXPANSION JOINTS.

SINGLE-LANE ROUNDABOUT

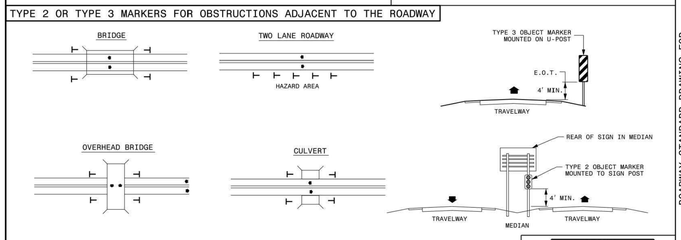
TYPE 1 OR TYPE 3 MARKERS FOR OBSTRUCTIONS WITHIN THE ROADWAY



TYPE 4 MARKERS FOR END OF ROADWAY



TYPE 2 OR TYPE 3 MARKERS FOR OBSTRUCTIONS ADJACENT TO THE ROADWAY



TYPICAL APPLICATIONS OF TYPE 2 OR TYPE 3 OBJECT MARKERS INCLUDES DELINEATION OF BRIDGE PIERS, ABUTMENTS, HANDRAILS, CULVERT HEADWALLS, NARROW SHOULDERS, DROP-OFFS, OR OTHER UNDESIRABLE CONDITIONS WHEN GUARDRAIL OR OTHER ROADSIDE PROTECTION IS NOT IN PLACE.

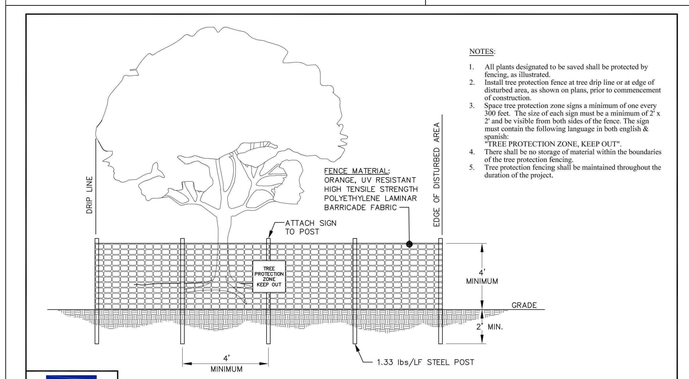
LEGEND
- OBJECT MARKER
- DIRECTION OF TRAFFIC FLOW

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-18

ROADWAY STANDARD DRAWING FOR
OBJECT MARKERS
INSTALLATION

SHEET 1 OF 1
1264.02

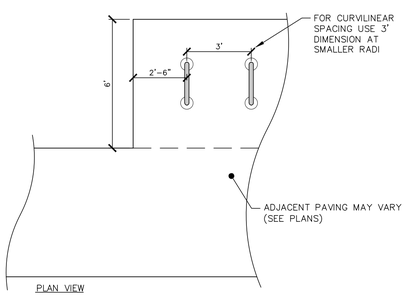


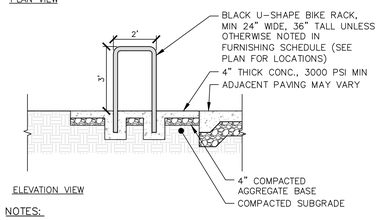
NOTES:
1. All plants designated to be saved shall be protected by fencing, as illustrated.
2. Install tree protection fence at tree drip line or at edge of disturbed area, as shown on plans, prior to commencement of construction.
3. Space tree protection zone signs a minimum of one every 300 feet. The size of each sign must be a minimum of 2' x 2' and be visible from both sides of the fence. The sign must contain the following language in both english & spanish: "TREE PROTECTION ZONE, KEEP OUT".
4. There shall be no storage of material within the boundaries of the tree protection fencing.
5. Tree protection fencing shall be maintained throughout the duration of the project.

WAKE COUNTY NORTH CAROLINA

REVISED: 1/2/2020

STANDARD TREE PROTECTION FENCE DETAIL | A-11

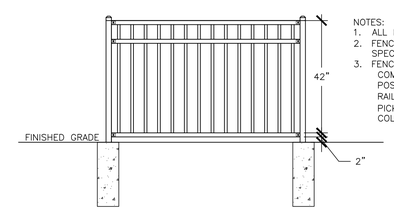




NOTES:
1. ANCHOR BIKE RACK TO CONCRETE. MOUNT PER MFR. RECOMMENDATIONS.
2. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN PAVING TYPE AND BIKE RACK MOUNTING METHOD

BIKE RACK

SCALE: 1/4"=1'-0"



NOTES:
1. ALL FASTENERS AND HARDWARE SHALL BE S.S.
2. FENCE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
3. FENCE DIMENSIONS (OR EQUAL)
   COMMERCIAL STRENGTH ALUMINUM
   POSTS: 2" X 2"
   RAILS: 1" X 1" – NO EXPOSED SCREW SYSTEM
   PICKETS: ⅝" X 5/8" W/ 3 13/16" SPACING
   COLOR: BLACK

FALL PROTECTION FENCE

SCALE: N. T. S

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

MCADAMS
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2905 Meridian Parkway
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license number: C-0293, C-187

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ALLIANCE GROUP OF NC, LLC
7208 FALLS OF NEUSE RD, SUITE 101
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CONTACT: JACOB ANDERSON
PHONE: 919. 239. 9486

AGNC BROKERAGE | CONSULTING | PLANNING

PEARCE FARM - PHASES 1-3
CONSTRUCTION DRAWINGS - PACKAGE 1

BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22630 WILLIAM T. O'DANIEL — NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	
1	02. 03. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS
2	04. 01. 2025	REVISED PER TOWN, CITY AND COUNTY COMMENTS

PLAN INFORMATION

PROJECT NO.	AGN23001
FILENAME	AGN23001-D1
CHECKED BY	.
DRAWN BY	.
SCALE	N.T.S.
DATE	12. 02. 2024

SHEET

SITE DETAILS

C8.00

X:\Projects\AGN\AGN23001\04-Production\Engineering\Construction Drawings\Current Drawings\AGN23001-D1.dwg, 3/25/2025 11:44:59 AM, Sherrill Williams