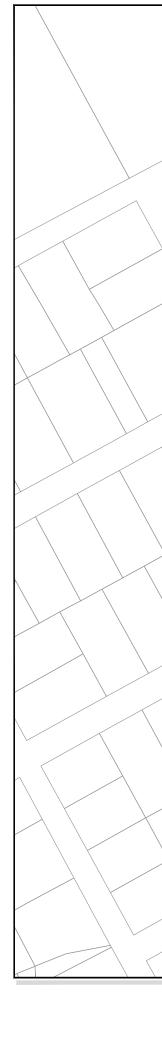


	706 N ARENDELL AVE, ZEBULON		
COUNTY:	WAKE		
PARENT PIN:	2705274195		
COUNTY: PARENT PIN: PM/PG:	2006/02452		
ZONING:ACREAGE:			
	1.38 ACRES TN		
CURRENT LAND USE MAP CLASSIFICATION:	TN TN		
AND CLASS:			
MINIMUM BUILDING SETBACKS:	25'		
	4 ⁻		
CORNER YARD:	5'		
RIGHT OF WAY & OTHER AREAS:			
RIGHT OF WAY DEDICATION:	0.00 AC		
NATURAL WETLANDS:	0.00 AC		
STREAM BUFFER:	0.00 AC		
LOT ACREAGE:			
TOTAL NUMBER PROPOSED LOTS:	12		
	8.70 DU/AC		
VIINIIVIUVI ALLOVVED LOT SIZE.	3,000 SF		
MINIMUM PROPOSED LOT SIZE:	3,090 SF		
MAXIMUM PROPOSED LOT SIZE:	3,427 SF		
AVERAGE PROPOSED LOT SIZE:	3,152 SF		
MINIMUM ALLOWABLE LOT WIDTH:	30'		
MINIMUM PROPOSED LOT WIDTH:	30'		
MAXIMUM ALLOWED LOT COVERAGE:	85%		
	63%		
OPEN SPACE BREAKDOWN:			
PROPERTY BOUNDARY	60 200 SE (1.38 AC)		
PROPERTY BOUNDARY: REQUIRED URBAN SET- ASIDE:	6 020 SE (10% OF TOTAL SITE)		
PROVIDED URBAN SET-ASIDE:	0,020 01 (10% 01 101% 0112) 9,079 SF (0.21 AC)		
IMPERVIOUS AREAS:			
ROADWAYS / PARKING:	7 085 SE (0 16 AC)		
SIDEWALKS:	3 017 SE (0 07 AC)		
	20 520 SE (0.47 AC)		
LOTS (1,710 SF/LOT): TOTAL ON-SITE IMPERVIOUS AREA:	50.72%		
JTILITY DEMANDS:			
SEWAGE USAGE:	4 320 GPD		
	4,320 GPD 3 BED X 120 GPD/BED X 12 UNIT		
WATER USAGE:			
<u>DISTURBED AREA:</u> TOTAL DISTURBED AREA:	61.002 SF (1.4 AC)		
STREET TYPE SUMMARY: 16' ROW SECTION:	390 LF		
	000 LI		





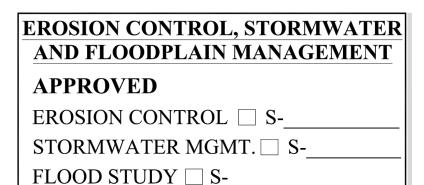
Know what's **below**. **Call** before you dig.

ARENDELL AVE SITE PLAN SET **PROJECT #561602**

SITE

VICINITY MAP

1" = 200'



ENVIRONMENTAL CONSULTANT SIGNATURE

PERMIT INFORMATION:

(PERMITTING AUTHORITY, PERMIT IDENTIFIERS, &	EFFECTIVE DATES)
TOWN OF ZEBULON PLANNING AND ZONING: - EFFECTIVE DATE OF ZONING APPROVAL: - EFFECTIVE DATE OF MASTER PLAN APPROVAL:	
WAKE COUNTY ENVIRONMENTAL: -LAND DISTURBANCE PERMIT: -STORMWATER PERMIT:	
NCDWR/CITY OF ZEBULON PUBLIC UTILITIES: -WATER EXTENSION PERMIT: -SEWER EXTENSION PERMIT:	W-XXXX S-XXXX
NC DEPT. OF TRANSPORTATION: -DRIVEWAY PERMIT: -2 PARTY ENCROACHMENT AGMT: -3 PARTY ENCROACHMENT AGMT:	E51-XXX-XXXX (DATE: XX-XX-XXXX)
U.S. ARMY CORPS OF ENGINEERS: -IMPACT PERMIT:	· · · ·
NC DIVISION OF WATER QUALITY: -BUFFER IMPACT AUTHORIZATION:	NOT REQUIRED

SURVEYOR:

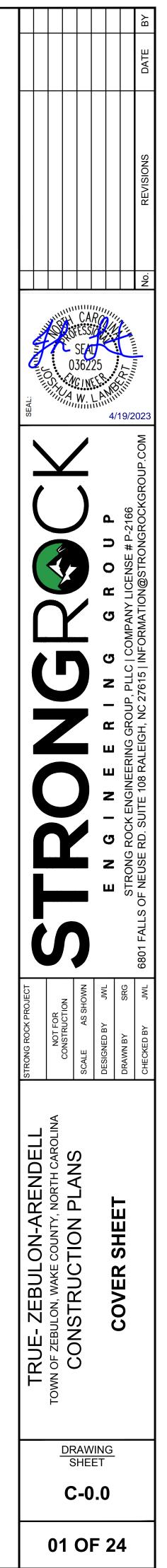
DATE

WAKE

TAYLOR LAND CONSULTANTS 5448 APEX PEAKWAY APEX, NC 27502 919-801-1104 (O) 919-337-7998 (M) CONTACT: JEREMY TAYLOR, PLS jeremy@taylorlc.com

CIVIL ENGINEERING:

STRONG ROCK ENGINEERING GROUP, PLLC PO BOX 55992 RALEIGH, NC 27624 COMPANY LICENSE #: P-2166 CONTACT: 984-200-1932 (P) information@strongrockengineering.com



SHE	SHEET INDEX					
C-0.0	COVER SHEET					
C-1.0	C-1.0 EXISTING CONDITIONS PLAN					
C-2.0	C-2.0 SITE PLAN					
C-3.0	C-3.0 UTILITY PLAN					
C-4.0	OFF-SITE SANITARY SEWER PLAN & PROFILE					
C-5.0	GRADING PLAN					
C-6.0	C-6.0 STORMWATER PLAN					
C-7.0 EROSION CONTROL NOTE						
C-7.1	EROSION COTROL PLAN - STAGE 1					
C-7.2	EROSION CONTROL PLAN - STAGE 2					
C-8.0	LANDSCAPING PLAN					
D-1.0	BUILDING ELEVATIONS					
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D-2.0	STORM DRAINAGE DETAILS					
D-2.1	STORM DRAINAGE DETAILS					
D-2.2	STORM DRAINAGE DETAILS					
D-2.3	WATER DETAILS					
D-2.4	SEWER DETAILS					
D-2.5	SITE DETAILS					
D-2.6	SITE DETAILS					
D-2.7	EROSION CONTROL DETAILS					
D-2.8	EROSION CONTROL DETAILS					
D-2.9	EROSION CONTROL DETAILS					
D-2.10	LIGHTING DETAILS					

PUBLIC UTILITY IMPROVEMENTS:

WATER MAIN: 0 SF SEWER MAIN: 76 SF WATER STUBS: 14 SEWER STUBS: 16 NOTE: STUB QUANTITY INCLUDES REMOVAL OF EXISTING STUBS.

SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

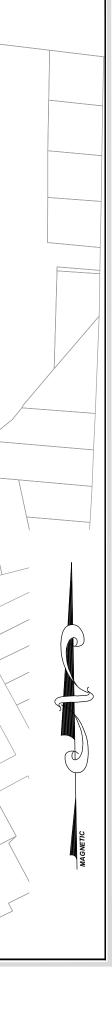
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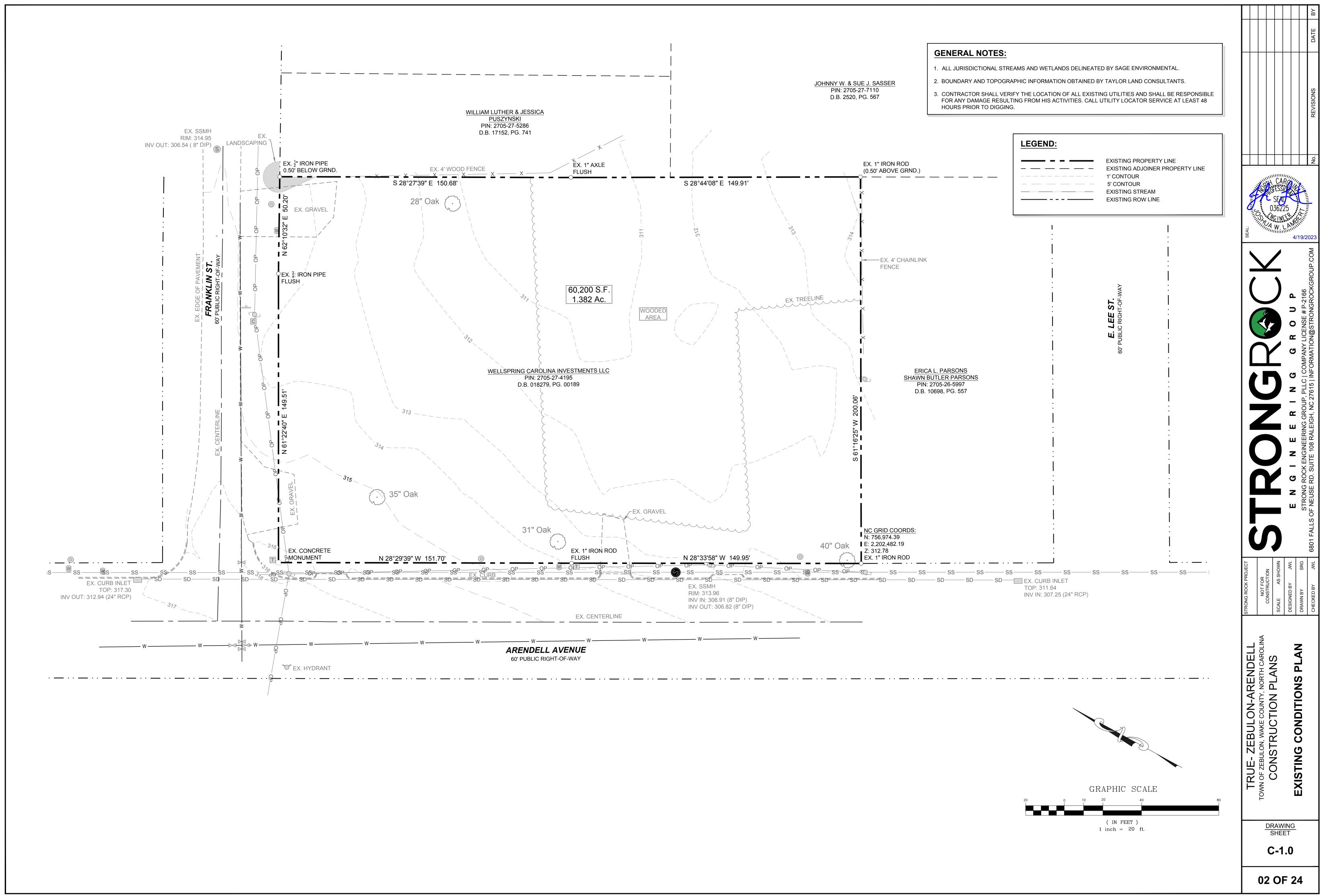
CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT - PLANS AUTHORIZED FOR CONSTRUCTION

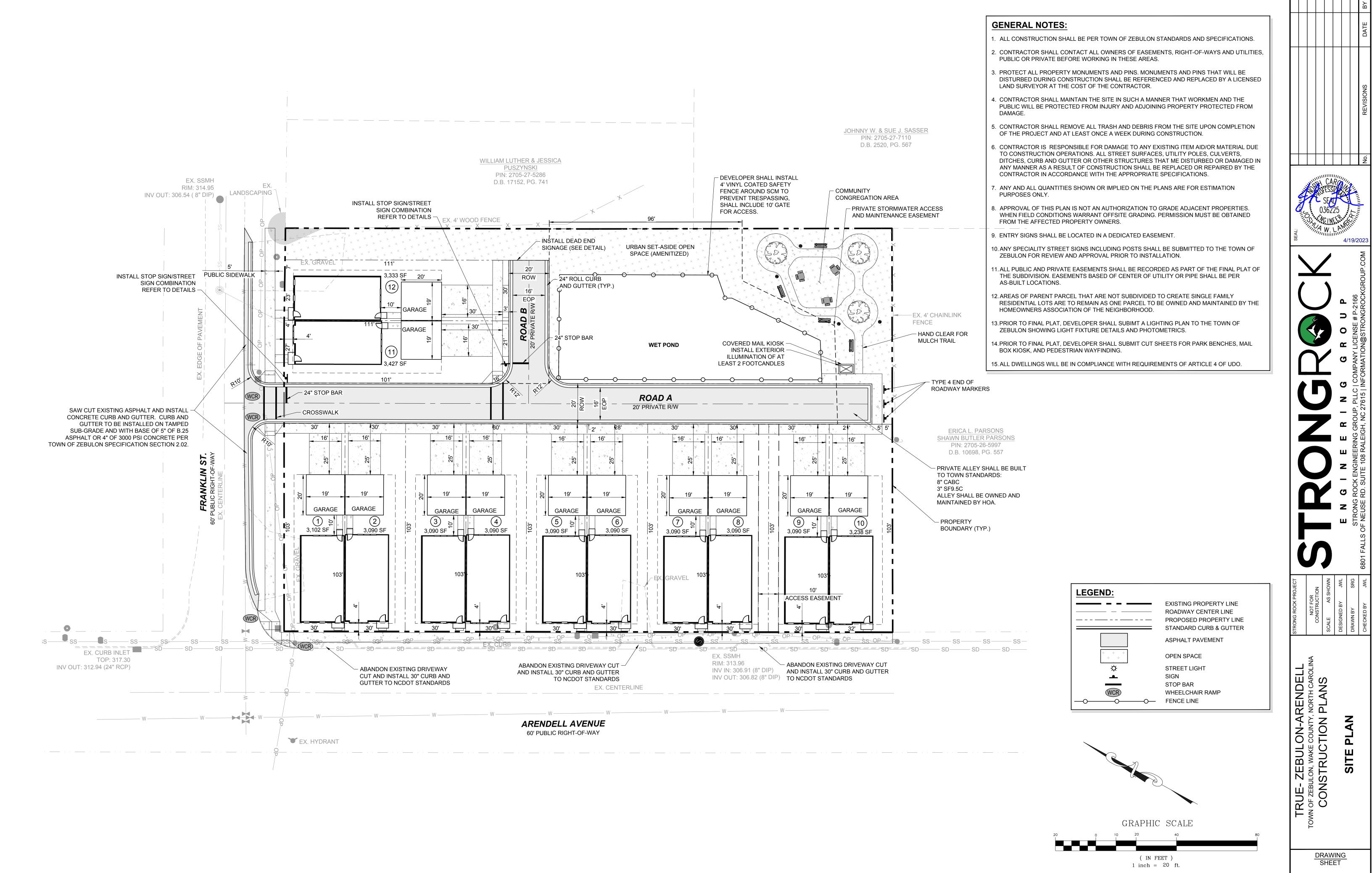
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CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT DEVELOPMENT APPROVAL

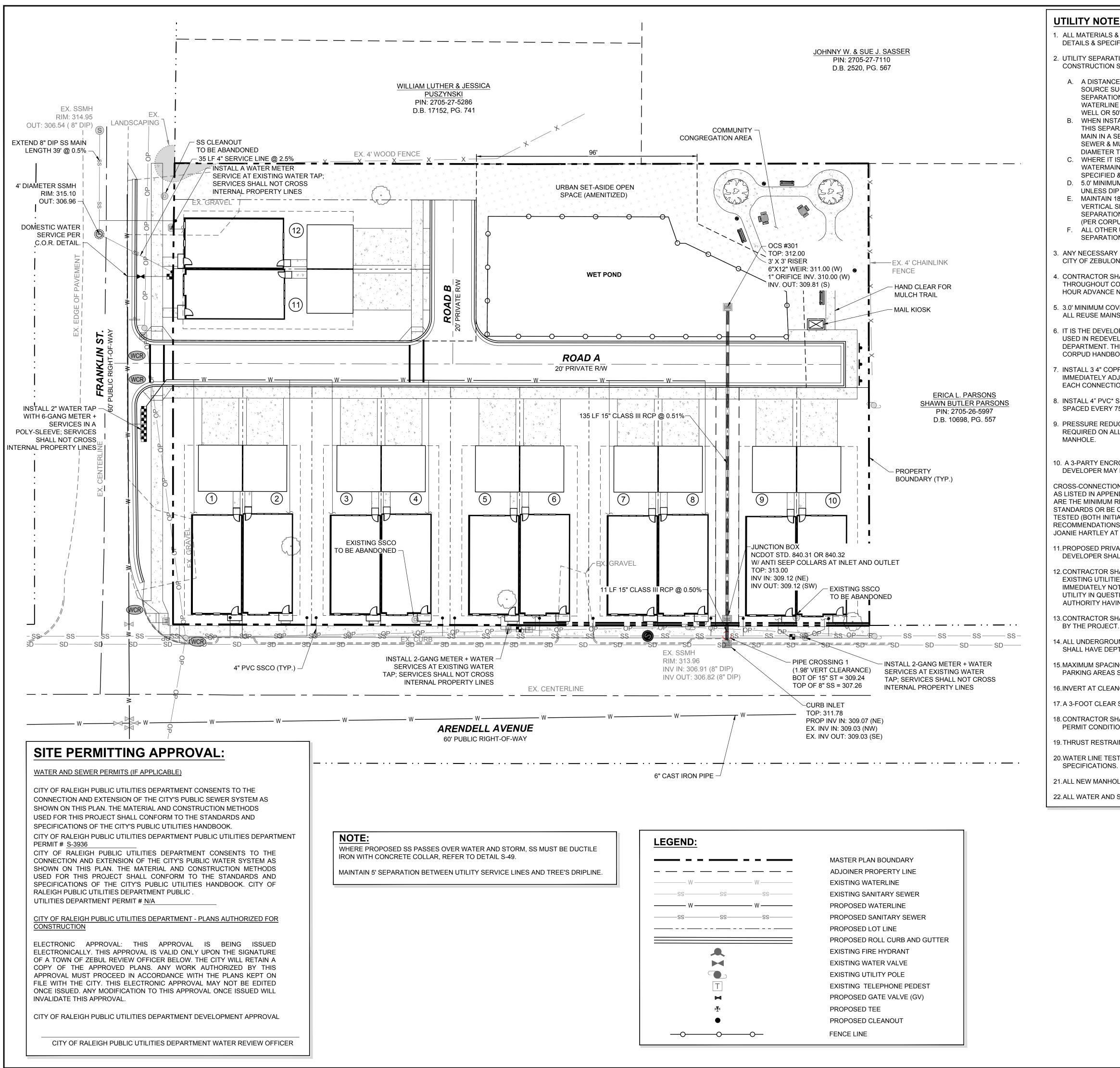
CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT WATER REVIEW OFFICER







C-2.0



UTILITY NOTES:

ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF ZEBULON DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)

2. UTILITY SEPARATION REQUIREMENTS (TAKEN FROM CORPUD HANDBOOK, 2014 EDITION, SEWER DESIGN, MATERIAL, & CONSTRUCTION STANDARDS, SECTION 1. a. 15;):

A. A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.

B. WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.

C. WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE

SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. D. 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.

E. MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49).

F. ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.

. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF ZEBULON PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.

. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF ZEBULON PUBLIC UTILITIES DEPARTMENT.

5. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.

5. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF ZEBULON PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.

. INSTALL 3 4" COPPER* WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.

3. INSTALL 4" PVC* SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.

. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM

10. A 3-PARTY ENCROACHMENT AGREEMENT BETWEEN THE NCDOT, THE CITY OF ZEBULON PUBLIC UTILITIES, AND THE DEVELOPER MAY BE NEEDED FOR WATER AND SEWER SERVICE TAPS WITHIN THE NCDOT MAINTAINED RIGHT OF WAY.

CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@ RALEIGHNC.GOV FOR MORE INFORMATION.

11. PROPOSED PRIVATE UTILITIES (POWER, TELEPHONE, NATURAL GAS, CABLE TV) ARE NOT SHOWN ON THIS PLAN. THE DEVELOPER SHALL COORDINATE THE INSTALLATION OF THOSE UTILITIES WHEN INSTALLING PUBLIC UTILITIES.

12. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. IF ANY EXISTING UTILITIES ARE LOCATED THAT CAUSE A CONFLICT WITH PROPOSED UTILITIES, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CIVIL ENGINEER OF RECORD IN WRITING. IF SUCH A SCENARIO ARISES, THE PROPOSED UTILITY IN QUESTION SHALL NOT BE INSTALLED UNTIL AN ACCEPTABLE SOLUTION IS PREPARED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.

13. CONTRACTOR SHALL ADJUST ALL CLEANOUTS, VALVE BOXES, MANHOLES, ETC. TO THE FINISHED GRADES ESTABLISHED BY THE PROJECT.

14. ALL UNDERGROUND ELECTRICAL CONDUITS SHALL HAVE A MINIMUM COVER OF 36"; GAS AND COMMUNICATION LINES SHALL HAVE DEPTH AND SPACING AS SPECIFIED BY SERVICE COMPANY.

15. MAXIMUM SPACING FOR SANITARY SEWER CLEANOUTS IS 75 FEET. ALL CLEANOUTS LOCATED IN DRIVE AISLES AND/OR PARKING AREAS SHALL TO BE TRAFFIC RATED.

16. INVERT AT CLEANOUT IS INVERT ELEVATION AT THE CONNECTION OF THE HORIZONTAL BEND.

17. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF FIRE HYDRANTS.

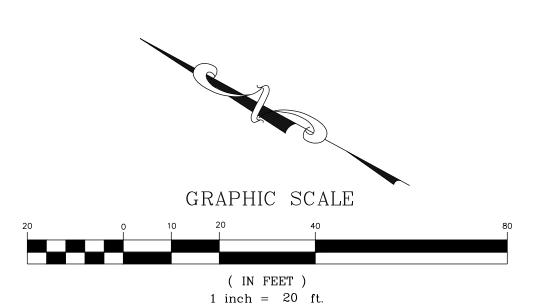
18. CONTRACTOR SHALL PROVIDE PROPER NOTIFICATION TO AUTHORITIES HAVING JURISDICTION AS SPECIFIED IN AGENCY PERMIT CONDITIONS. AS A COURTESY, CIVIL ENGINEER OF RECORD REQUESTS NOTIFICATION.

19. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH CITY OF ZEBULON STANDARD SPECIFICATIONS.

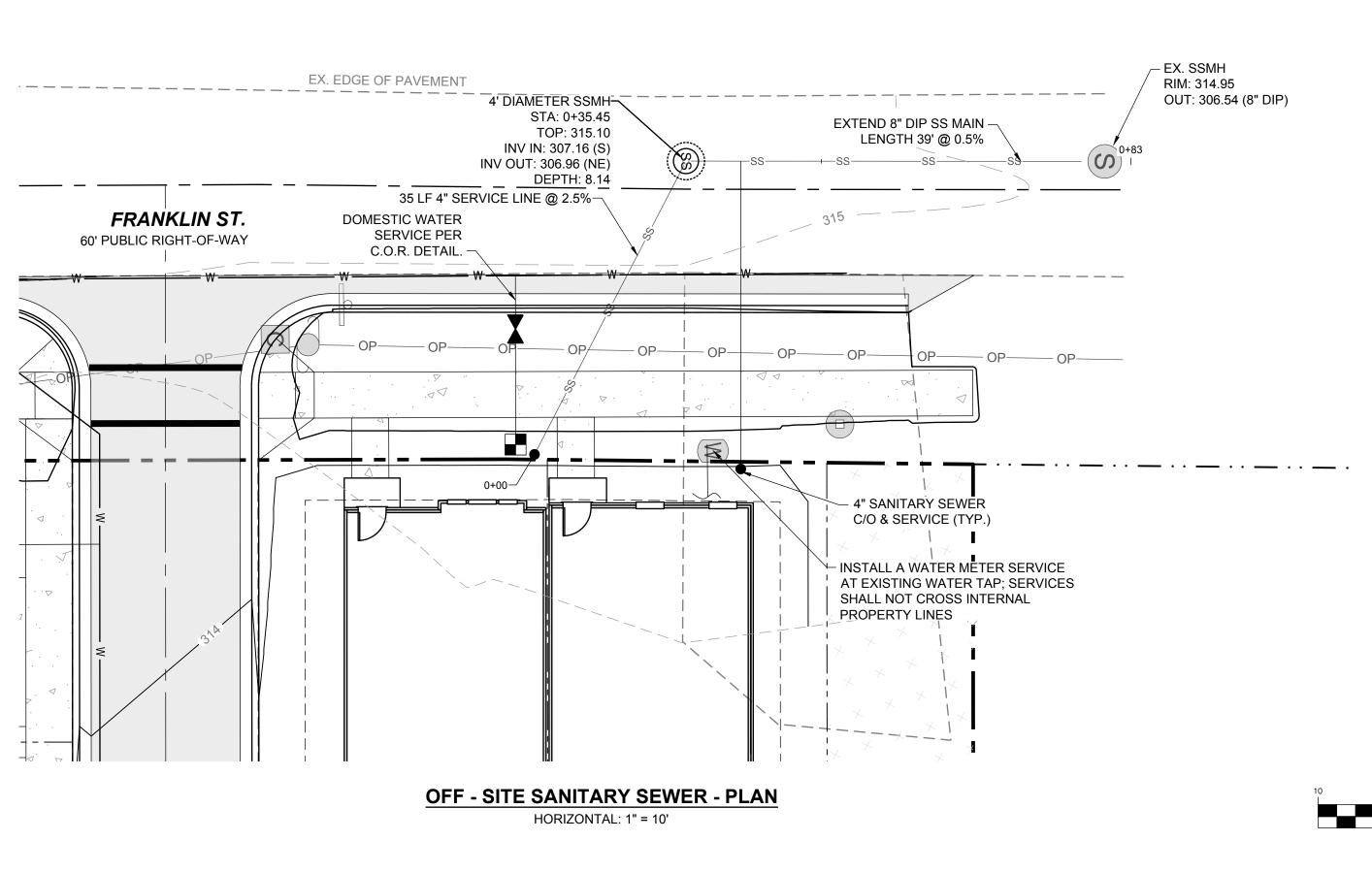
20. WATER LINE TESTING AND STERILIZATION SHALL BE IN ACCORDANCE WITH CITY OF ZEBULON STANDARD

21.ALL NEW MANHOLES SHALL BE ECCENTRIC UNLESS OTHERWISE NOTED.

22.ALL WATER AND SEWER SERVICE CONNECTIONS SHALL BE INSTALLED BY A LICENSED PLUMBER.









WATER AND SEWER PERMITS (IF APPLICABLE)

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CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PUBLIC UTILITIES DEPARTMENT PERMIT # <u>S-3936</u>

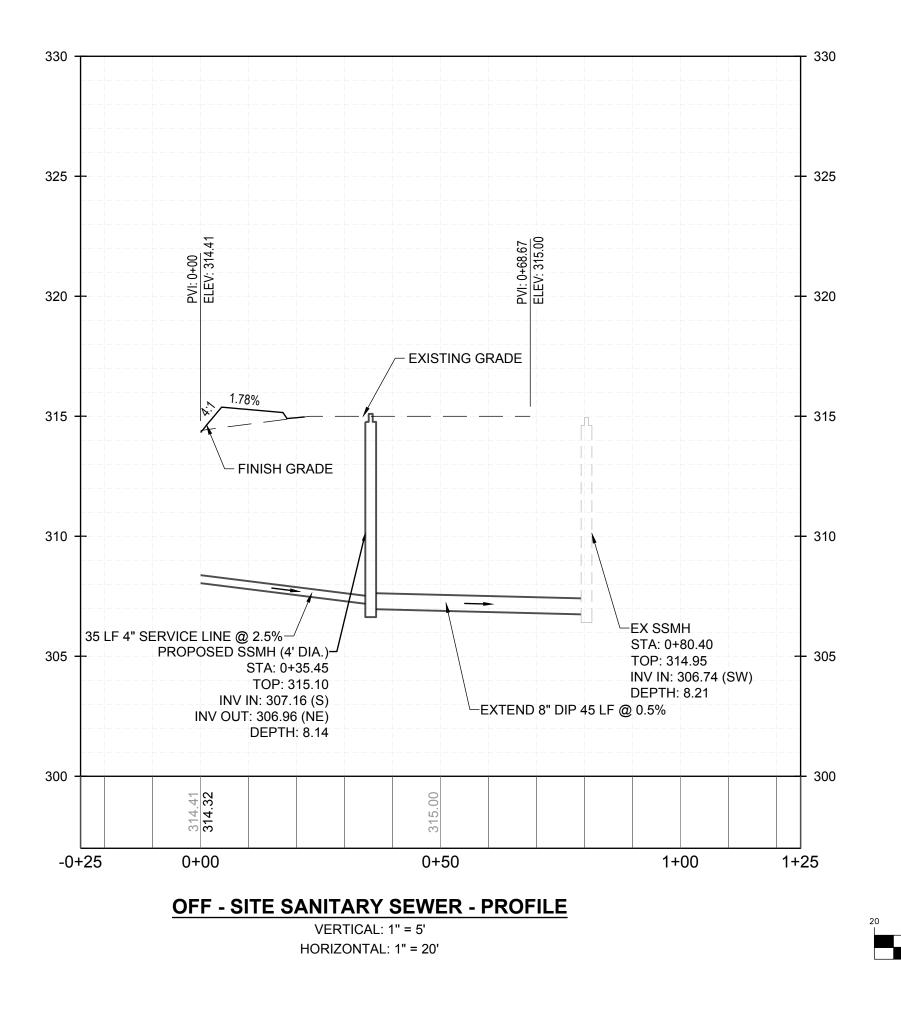
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CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT - PLANS AUTHORIZED FOR CONSTRUCTION

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CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT DEVELOPMENT APPROVAL

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT WATER REVIEW OFFICER



GRAPHIC SCALE

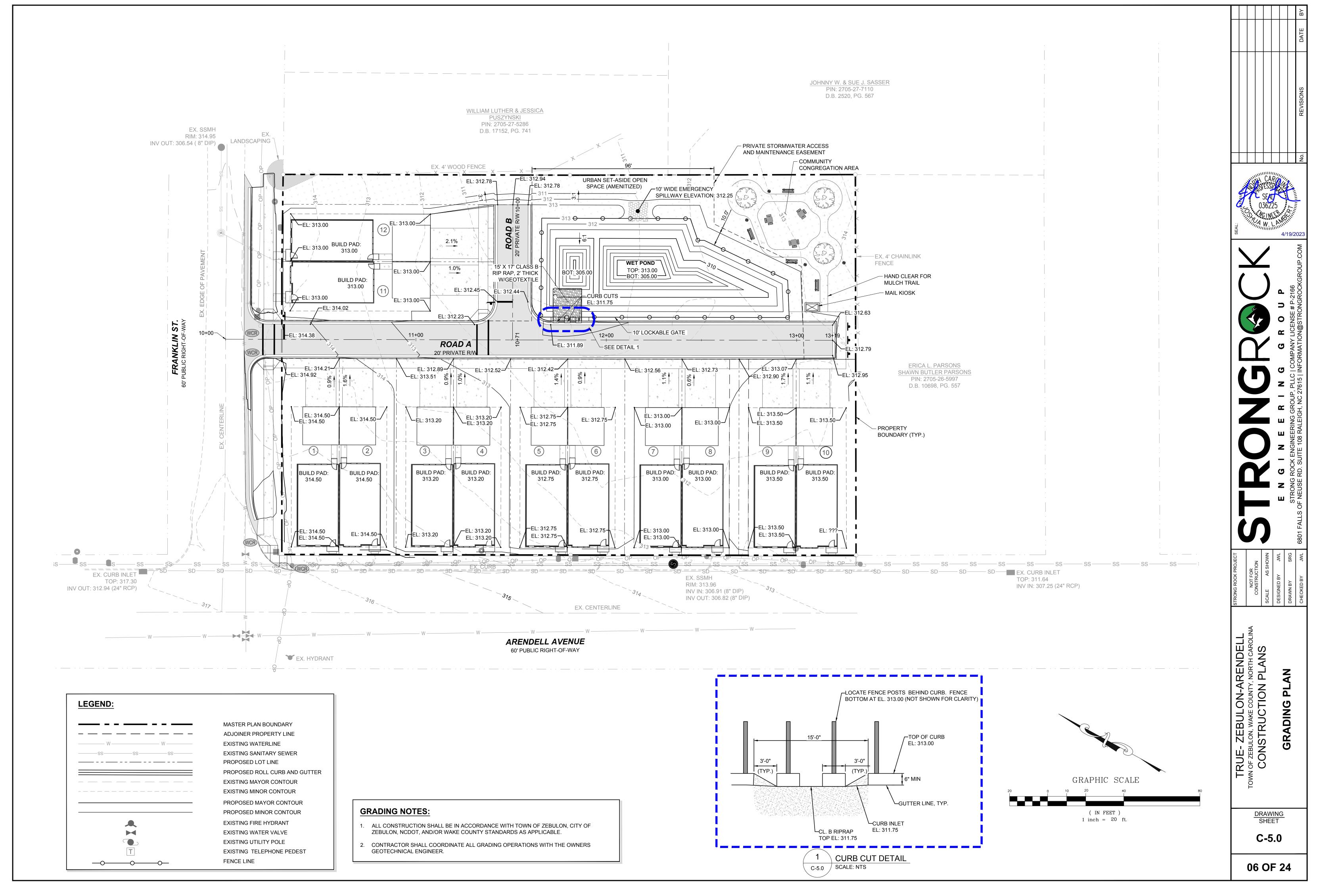
(IN FEET)

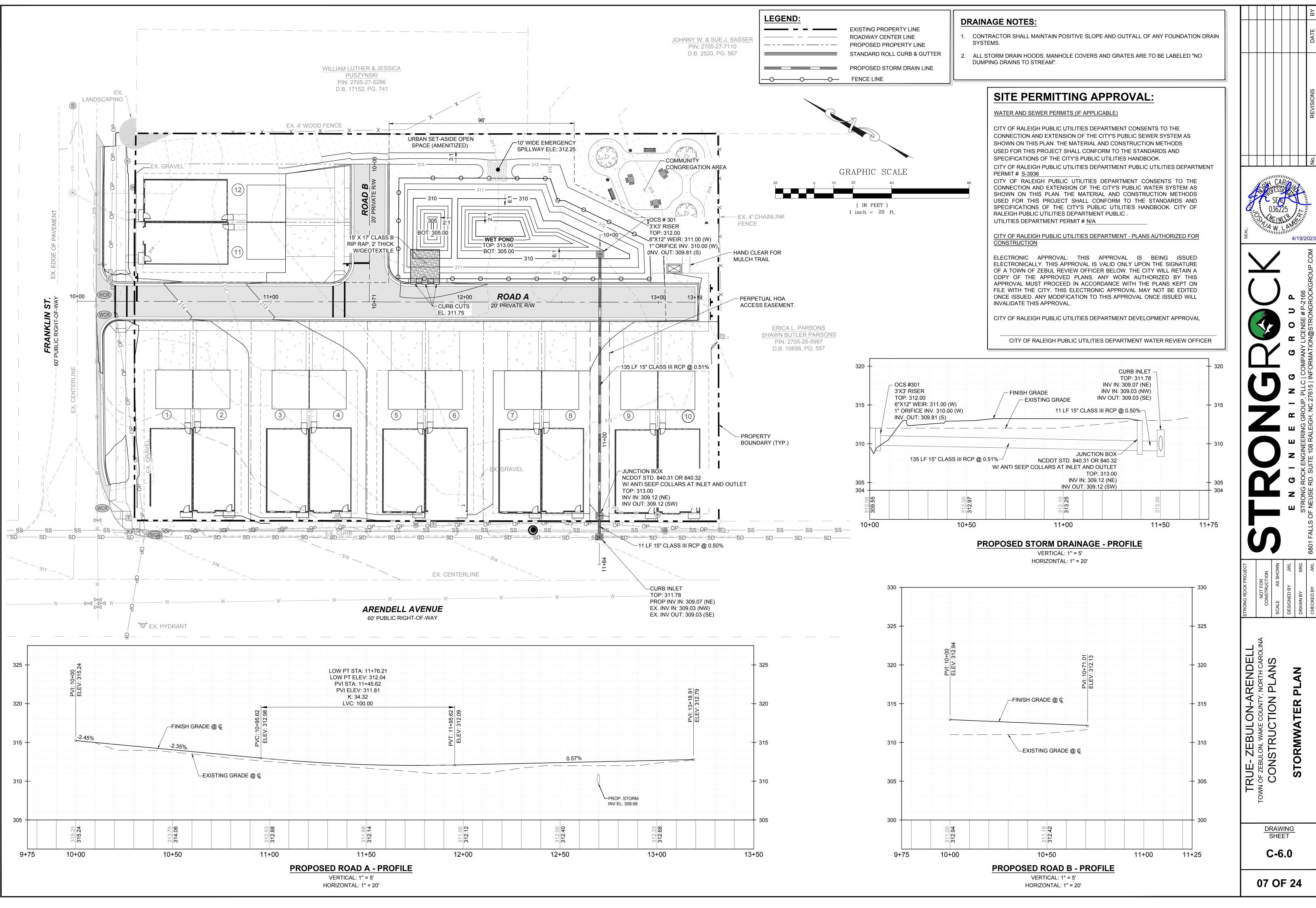
								B	
								DATE	
								REVISIONS	
								No.	
SEAL:									
							STRONG ROCK ENGINEERING GROUP, PLLC COMPANY LICENSE # P-2166	6801 FALLS OF NEUSE RD. SUITE 108 RALEIGH, NC 27615 INFORMATION@STRONGROCKGROUP.COI	
STRONG ROCK PROJECT		NOT FOR	CONSTRUCTION	AS SHOWN	IMI.		SRG	BY JWL	
STRONG RC		0N N	CONST	SCALE	DESIGNED BV		DRAWN BY	CHECKED BY	
		TOWN OF ZEBULON, WAKE COUNTY, NORTH CAROLINA					PLAN & PROFILE		
	_								
			DR S	AW HE	/IN ET	G			
			DR S C	AW	/IN ET	<u>G</u>)			

GRAPHIC SCALE

(IN FEET) 1 inch = 10 ft.

1 inch = 20 ft.





OFFSITE SPOIL NOTE:

1. IF AN OFFSITE SOIL SPOIL OR BORROW SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE SPOIL/BORROW SITE MUST BE INCLUDED IN THE LAND-DISTURBANCE PLAN AND PERMIT UNLESS THE SPOIL/BORROW SITE ALREADY HAS A SEPARATE LAND-DISTURBANCE PERMIT.

STAGE 1 SPECIFIC SEQUENCE:

- INSTALL CONSTRUCTION ENTRANCE, SILT FENCING, SILT FENCE OUTLETS, DIVERSION DITCHES, AND SKIMMER BASINS AS SHOWN ON APPROVED STAGE 1 EROSION CONTROL PLAN. CLEAR AND GRADE ONLY AREAS NECESSARY TO INSTALL THESE EROSION AND SEDIMENT CONTROL DEVICES. INSTALL SILT FENCE OUTLETS AT LOW POINTS IN THE SILT FENCING AS NEEDED TO PREVENT BLOWOUTS.
- STABILIZE ALL DISTURBED AREAS DOWNSTREAM OF SEDIMENT BASINS AND OTHER CRITICAL EROSION CONTROL AREAS IMMEDIATELY UPON INSTALLATION. ONCE APPROVED, BEGIN CLEARING AND GRADING REMAINDER OF THE SITE. MAINTAIN EROSION CONTROL DEVICES AS NEEDED. INSTALL DIVERSION DITCHES AS SHOWN ON THE STAGE 1 EROSION CONTROL PLANS. MAINTAIN DIVERSION DITCHES AS SITE IS BROUGHT TO FINAL GRADE IN ORDER TO DIVERT AS MUCH RUNOFF INTO SEDIMENT BASINS AS POSSIBLE.
- STABILIZE GRADED AREAS AS THEY ARE CLEARED. TEMPORARILY SEED AND MULCH DENUDED AREAS PER THE WAKE COUNTY UNIFIED DEVELOPMENT ORDINANCE SEC. 12.20.5(2). ONCE FINAL GRADE HAS BEEN ACHIEVED, PAVE OR PERMANENTLY SEED ALL AREAS AND SLOPES PER NCDENR'S EROSION SEDIMENT CONTROL PLANNING AND DESIGN MANUAL VERSION 6/06, SECTION 6.10 AND 6.11.
- MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAIN EVENT THROUGHOUT CONSTRUCTION.

STAGE 2 SPECIFIC SEQUENCE:

- AFTER CONTRACTOR HAS COMPLETED ROUGH GRADING OPERATIONS:
- A. CONTRACTOR SHALL STABILIZE HOUSE LOTS WITH TEMPORARY SEEDING; REFER TO SEEDING DETAILS.
- B. CONTRACTOR SHALL PERMANENTLY STABILIZE ALL SLOPES AND/OR OTHER AREAS THAT ARE AT FINAL GRADE.

C. CONTRACTOR MAY CREATE ENTRANCE THROUGH SILT FENCE TO LOTS PERMITTED FOR GRADING AS REQUIRED.

- D. CONTRACTOR SHALL CREATE STABILIZED ENTRANCE AT DEFINED LOCATIONS TO REDUCE SEDIMENT TRACKING AND LIMIT ACCESS LOCATIONS.
- INSTALL UTILITIES, INCLUDING STORM NETWORK. CONTRACTOR SHALL ONLY EXCAVATE THE AMOUNT OF TRENCH TO ALLOW FOR ONE DAY OF PIPE INSTALLATION.
- 3. CONTRACTOR SHALL USE BERMS, DIVERSIONS, AND PIPE INLET PROTECTION TO PREVENT SEDIMENT RUNOFF FROM ENTERING THE STORM SYSTEM.
- 4. INSTALL INLET PROTECTION ON ALL COMPLETED STORM STRUCTURES
- 5. UPON APPROVAL OF PERMANENT STABILIZATION, REMOVE BALANCE OF EROSION CONTROL MEASURES, GRADE AND STABILIZE REMAINDER OF SITE.
- WITH APPROVAL OF EROSION CONTROL INSPECTOR, REMOVE THE REMAINER OF THE EROSION CONTROL DEVICES.

EROSION CONTROL NARRATIVE NOTE:

THE PURPOSE OF THIS PLAN IS TO ESTABLISH 12 LOTS RESIDENTIAL SUBDIVISION. LAND DISTURBANCE WILL BE KEPT TO THE MINIMUM AMOUNT NEEDED TO INSTALL THE INFRASTRUCTURE AND ASSOCIATED STORM WATER DEVICE SHOWN ON THE PLAN. ACCELERATED EROSION WILL BE CONTROLLED BY MINIMIZING THE AMOUNT OF EXISTING VEGETATIVE COVER TO BE REMOVED, AND PROVIDING TEMPORARY AND PERMANENT STABILIZATION MEASURE ON DISTURBED AREAS AS SOON AS POSSIBLE. IN GENERAL, STRIPPING OF VEGETATION, REGRADING OR OTHER DEVELOPMENT IS TO BE DONE IN SUCH A WAY THAT WILL MINIMIZE EROSION. THE PRIMARY CONTROL FOR CAPTURING SEDIMENT FROM THESE AREAS WILL BE SILT FENCE AND RISER/SKIMMER BASIN. A CONSTRUCTION ENTRANCE WILL BE PROVIDED FOR THE ACCESS. THE AMOUNT OF DISTURBED AREA AND THE DURATION OF EXPOSURE SHALL BE KEPT TO A PRACTICAL MINIMUM AND THE PERMANENT VEGETATION AND STORMWATER CONTROL SYSTEMS WILL BE INSTALLED AS SOON AS POSSIBLE TO PREVENT EROSION AND THEREFORE MINIMIZE THE AMOUNT OF SEDIMENT TO BE CONTROLLED.

BASIN REMOVAL SEQUENCE:

. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL 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. CONTACT NCDEQ - RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE DIVISION OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO RECEIVE DEWATERING NOTIFICATIONS. AT LEAST 10 DAYS PRIOR TO BEGINNING DEWATERING ACTIVITY, SEND EMAIL TO NCDEQ-DEMLR CONTACT PERSON AND COPY ENVIRONMENTAL CONSULTANT THAT MET YOU ONSITE. THE EMAIL SHOULD INCLUDE: E&SC JURISDICTION: WAKE COUNTY, WAKE COUNTY PROJECT: NAME, NUMBER, AND LOCATION (CITY/TOWN), ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING:

- A. REASON FOR CONVERSION
- B. BASIN #
- C. DEWATERING METHOD
- D. ALL OTHER NECESSARY INFO FROM PART II, SECTION G, ITEM 4 OF THE NCG01. (KEEP EMAIL FOR YOUR NPDES MONITORING DOCUMENTATION)

3. AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDEQ - DEMLR THAT YOU MAY REMOVE THE BASIN OR ON > DAY 11, WHICHEVER IS SOONER. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF 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 ANCHOR 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 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 CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

EROSION CONTROL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST 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.
- 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 FINANCIALLY RESPONSIBLE PARTY TO FINES AND PENALTIES ISSUED BY EITHER THE WAKE 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 NCDEQ ONCE INITIAL MEASURES ARE IN PLACE. (SEE CONSTRUCTION SEQUENCES)
- 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 AND PONDING.
- 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 AND ENGINEER 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. SLOPES GREATER THAN 3:1 AND/OR GREATER THAN 10' IN VERTICAL DIFFERENCE SHALL BE INSTALLED WITH ROLLED EROSION CONTROL PRODUCT IMMEDIATELY UPON INSTALLATION.

CONSTRUCTION SEQUENCE:

- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT. OBTAIN A LANDDISTURBING PERMIT.
- INSTALL GRAVEL CONSTRUCTION PAD, SILT FENCE, SEDIMENT BASIN OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- 3. CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- . BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
- 5. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
- 6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
- IF SITE IS APPROVED, REMOVE, SILT FENCE, SEDIMENT BASIN, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES. SHOULD NOW BE INSTALLED.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.

KARYN PAGEAU AT 919-796-8769 AS ENVIRONMENTAL CONSULTANT.

10. WAKE COUNTY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK

GENERAL SE

ENFORCEMENT NO **REVISED SEDIMEN** S&E MEASURES.

- 2. OBTAIN LAND
- CONSTRUCTIO
- 4. INSTALL CONS CLEAR WATE (PHASE 1). RE
- 5. IF A STOCKP 10 FEET APAF GOING TO BE THE MATERIA
- 6. PROVIDE TE COMPLETION
- 7. NOTIFY THE
- 8. BEGIN CLEAF
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- 10. REMOVE AL

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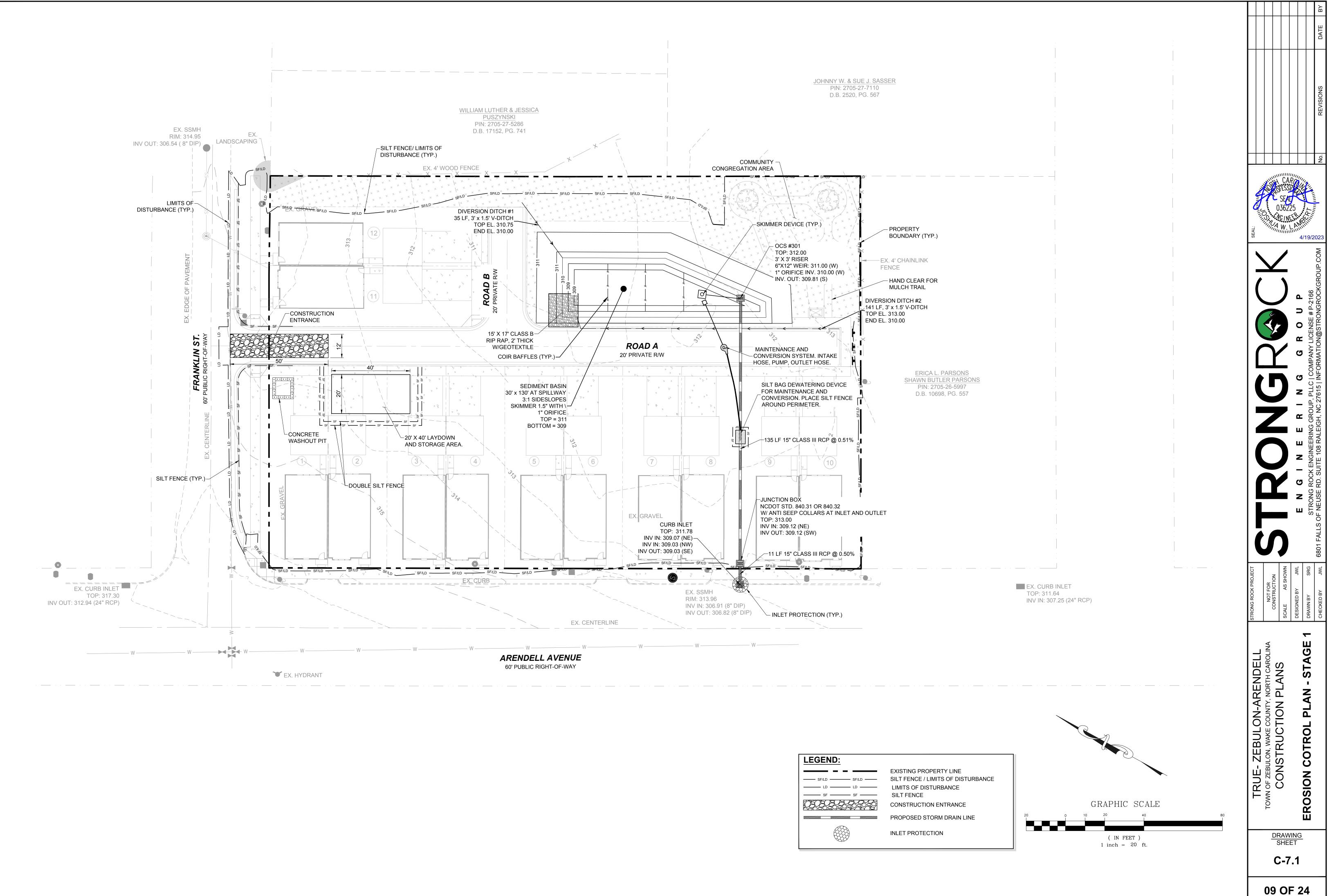
			BY
	NERAL SEQUENCE:		DATE
INCL	ORCEMENT NOTE 1. FAILURE TO FOLLOW THIS CONSTRUCTION SEQUENCE MAY RESULT IN LOCAL ENFORCEMENT ACTIONS, UDING BUT NOT LIMITED TO CIVIL PENALTIES TO \$5000 PER VIOLATION PER DAY, INJUNCTIVE RELIEF, CRIMINAL PENALTIES, PERMIT REVOCATION. ADDITIONALLY, OFF-SITE SEDIMENTATION MAY RESULT IN RESTORATION REQUIREMENTS.		
REV	ORCEMENT NOTE 2. IF THE WAKE COUNTY S&E STAFF DETERMINES THAT EXCESSIVE SEDIMENT IS LEAVING THE SITE, A ISED SEDIMENTATION AND EROSION CONTROL PLAN MAY BE REQUIRED, WITH ASSOCIATED REQUIREMENTS FOR ADDITIONAL MEASURES.		SN
	ISTRUCTION SEQUENCE		REVISIONS
1.	SCHEDULE AND HOLD A PRE-CONSTRUCTION CONFERENCE PRIOR TO BEGINNING ANY LAND-DISTURBING ACTIVITIES. THIS CONFERENCE SHOULD BE ATTENDED BY A REPRESENTATIVE OF THE FINANCIALLY RESPONSIBLE PARTY AND/OR THE GENERAL CONTRACTOR, GRADING SUB-CONTRACTOR, EROSION CONTROL SUB-CONTRACTOR AND THE WAKE COUNTY S&E OFFICE.		RE
2.	OBTAIN LAND DISTURBING PERMIT AND PLACARD, AND POST THE PLACARD ON SITE.		
3.	OBTAIN AN APPROVED (STAMPED) S&E CONTROL PLAN AND KEEP IT ON SITE, EITHER IN THE INSPECTION BOX, CONSTRUCTION OFFICE OR WITH THE CONTRACTOR.		No.
4.	INSTALL CONSTRUCTION EGRESS/EXITS, SILT FENCING, SEDIMENT TRAPS/BASINS, DIVERSION DITCHES, TEMPORARY PIPES, CLEAR WATER DIVERSIONS, CHECK DAMS, AND OTHER INITIAL EROSION CONTROL MEASURES AS SPECIFIED IN THE PLAN (PHASE 1). REMOVE ONLY TREES AND GROUND COVER NECESSARY TO INSTALL THESE DEVICES.	States	ROUL
5.	IF A STOCKPILE IS NECESSARY DUE TO EXCAVATION OF THE SEDIMENT TRAP/BASIN, PLACE A DOUBLE ROW OF SILT FENCE 10 FEET APART. TREES AND GROUNDCOVER MAY BE REMOVED ONLY AS NECESSARY FOR THIS STOCKPILE. IF MATERIAL IS GOING TO BE HAULED OFF-SITE, A SEPARATE EROSION CONTROL PERMIT MUST BE OBTAINED FOR THE DESTINATION OF THE MATERIAL.		25 LANIII
6.	PROVIDE TEMPORARY GROUNDCOVER FOR DIVERSION DITCHES AND SEDIMENT TRAPS/BASINS WITHIN 3 DAYS OF COMPLETION.	SEA SEA SEA SEA SEA SEA SEA SEA SEA SEA	4/19/2023 ∑
7.	NOTIFY THE WAKE COUNTY S&E SITE INSPECTOR AFTER MEASURES HAVE BEEN INSTALLED AND PROJECT HAS STARTED.		P.CO
8.	BEGIN CLEARING, GRUBBING AND GRADING OF SITE IN ACCORDANCE WITH THE APPROVED S&E CONTROL PLAN.		ROU
9.	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.		G G R O U P COMPANY LICENSE # P-2166 INFORMATION@STRONGROCKGROUP.COM
10.	REMOVE ALL EROSION CONTROL MEASURES AFTER THE WAKE COUNTY S&E OFFICE APPROVAL OF PERMANENT STABILIZATION.		R O LICENSE N@STR(
			E N G I N E E R I N STRONG ROCK ENGINEERING GROUP, PLL(6801 FALLS OF NEUSE RD. SUITE 108 RALEIGH, NC 27615
		STRONG ROCK PROJECT NOT FOR CONSTRUCTION SCALE AS SHOWN	DESIGNED BY JWL DRAWN BY SRG CHECKED BY JWL
		RUE- ZEBULON-ARENDELL OF ZEBULON, WAKE COUNTY, NORTH CAROLINA CONSTRUCTION PLANS	ROSION CONTROL NOTE

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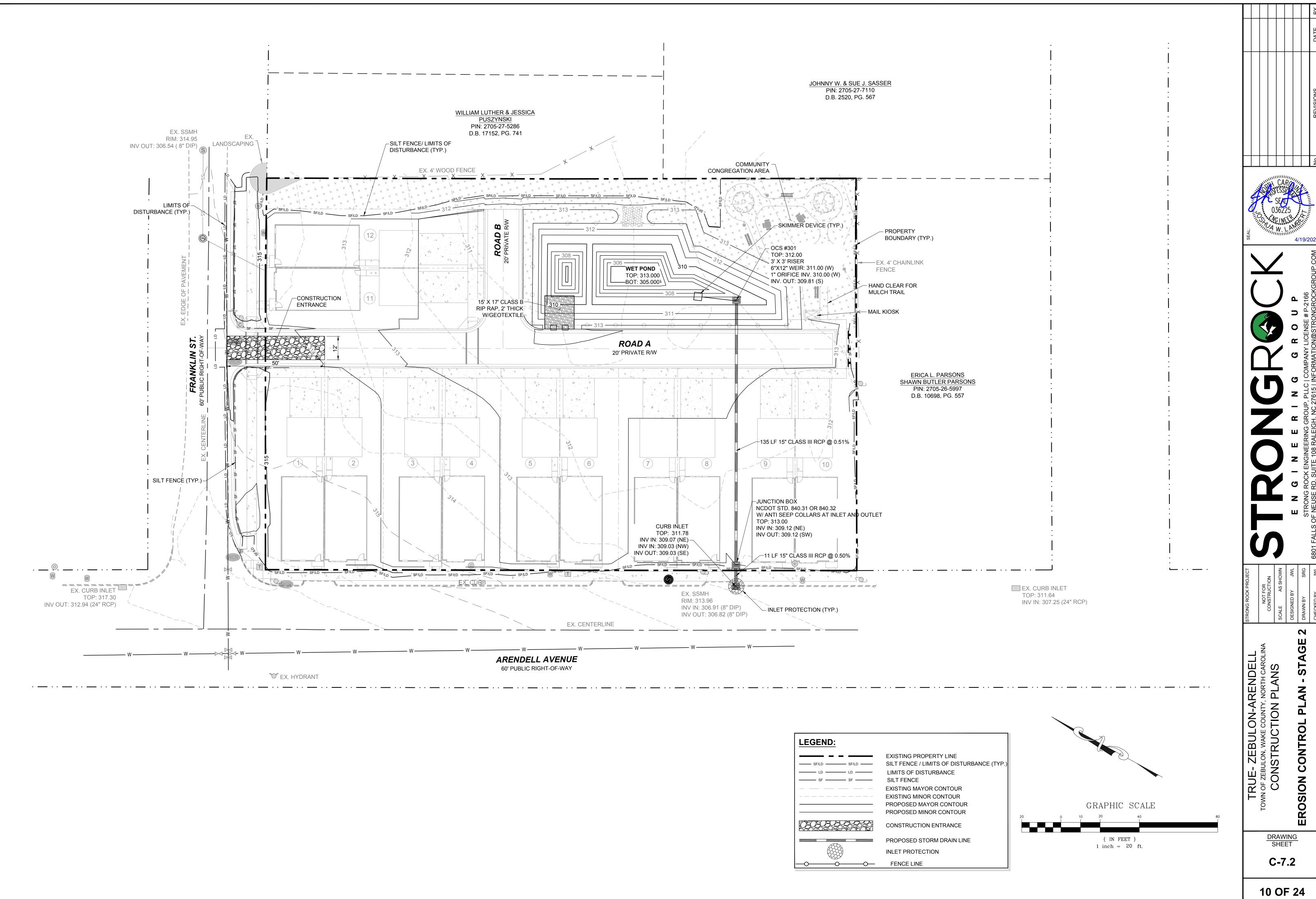
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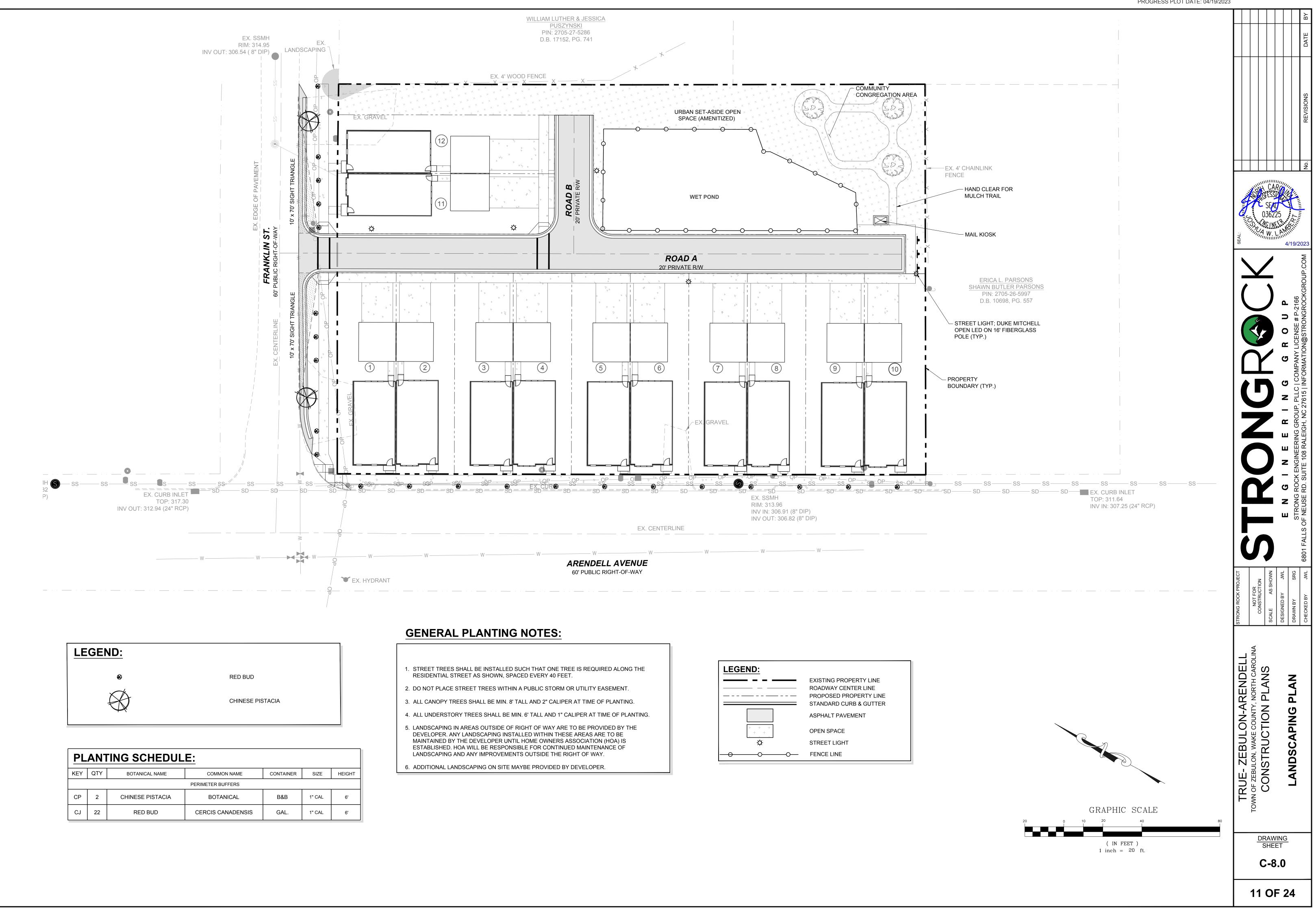
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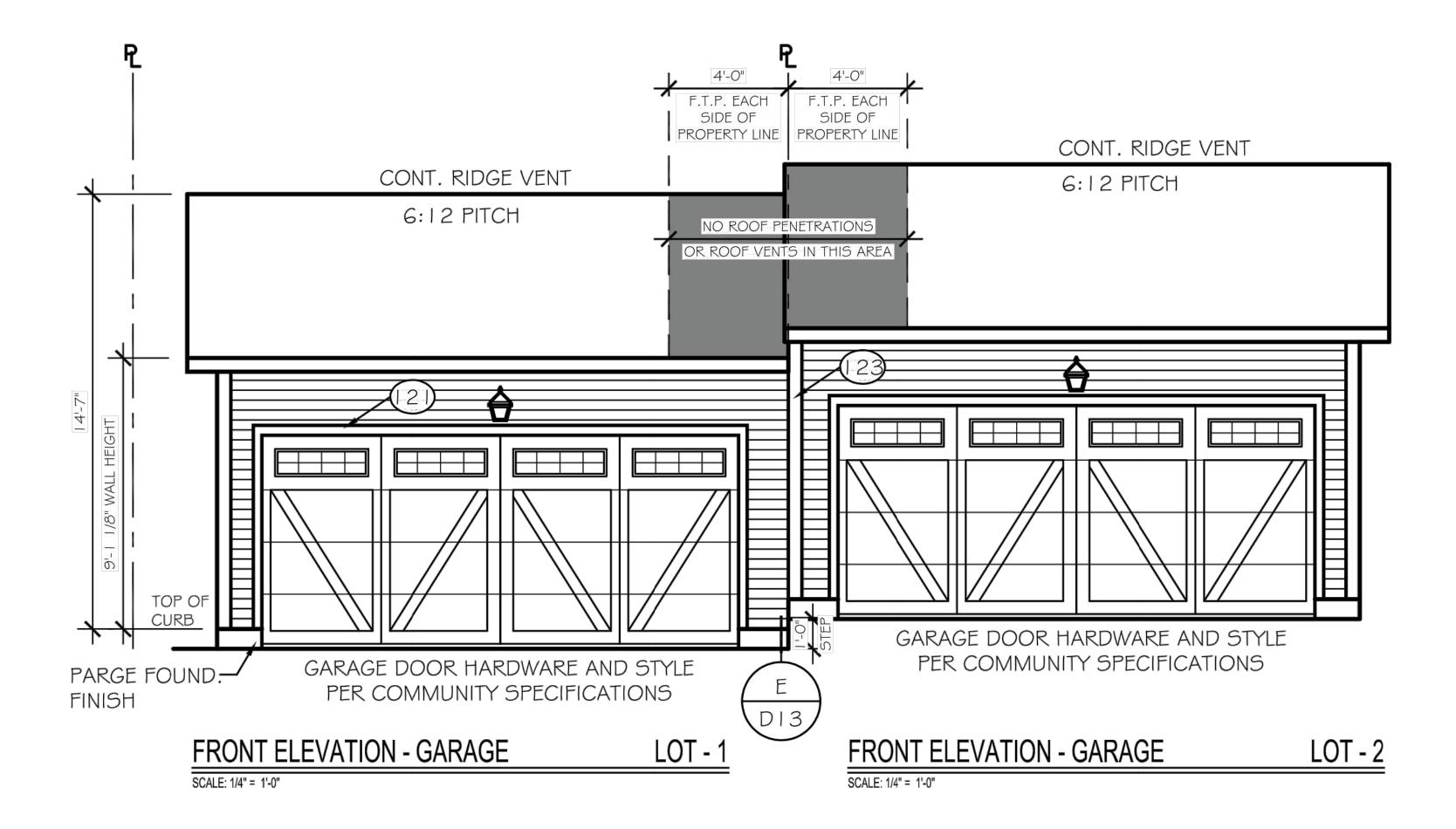
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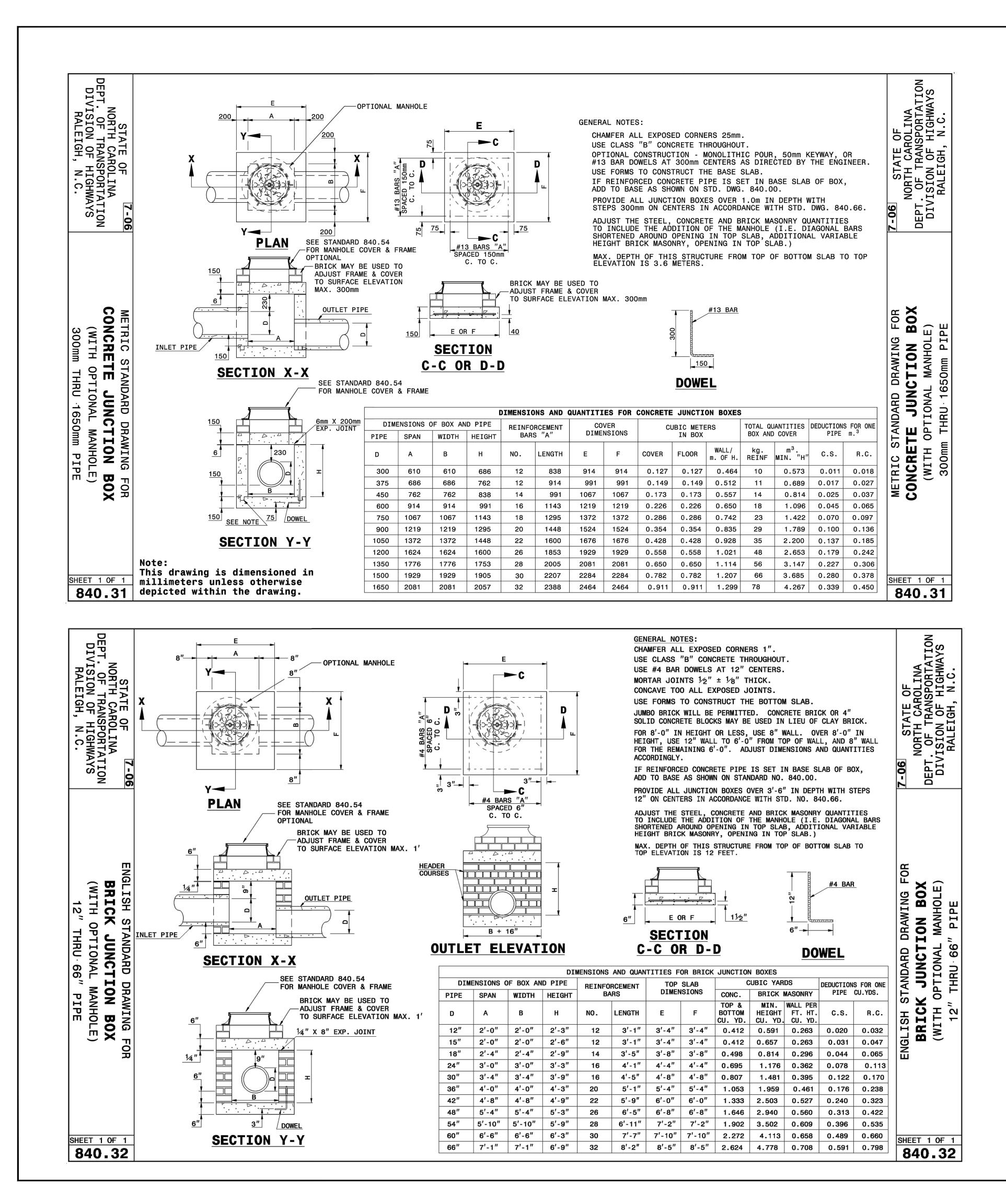
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	PERIMETER BUFFERS										
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CJ	CJ 22 RED BUD		CERCIS CANADENSIS	GAL.	1" CAL	6'					



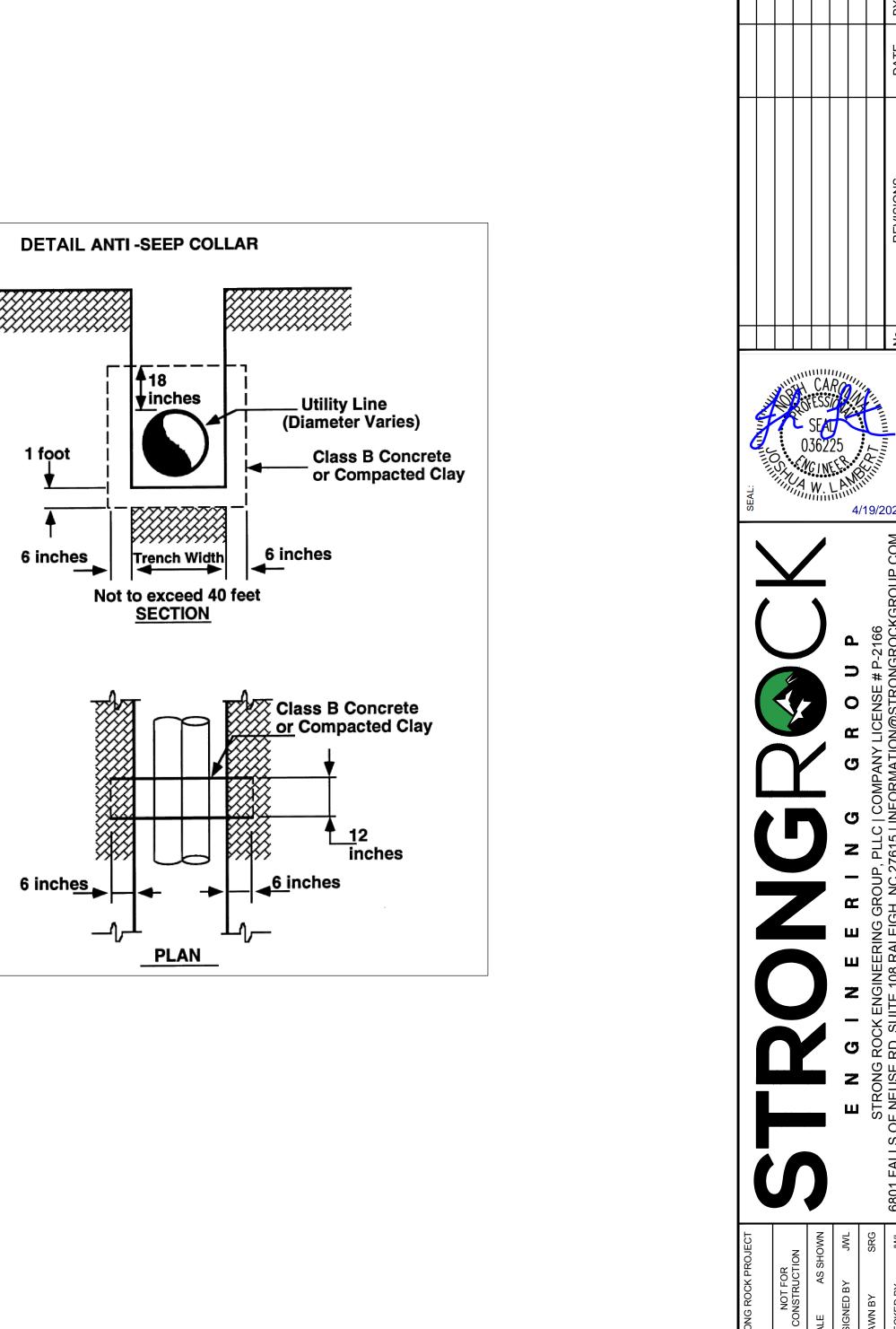


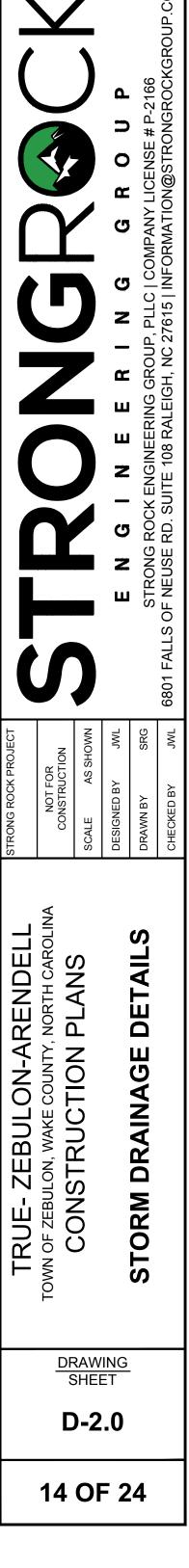


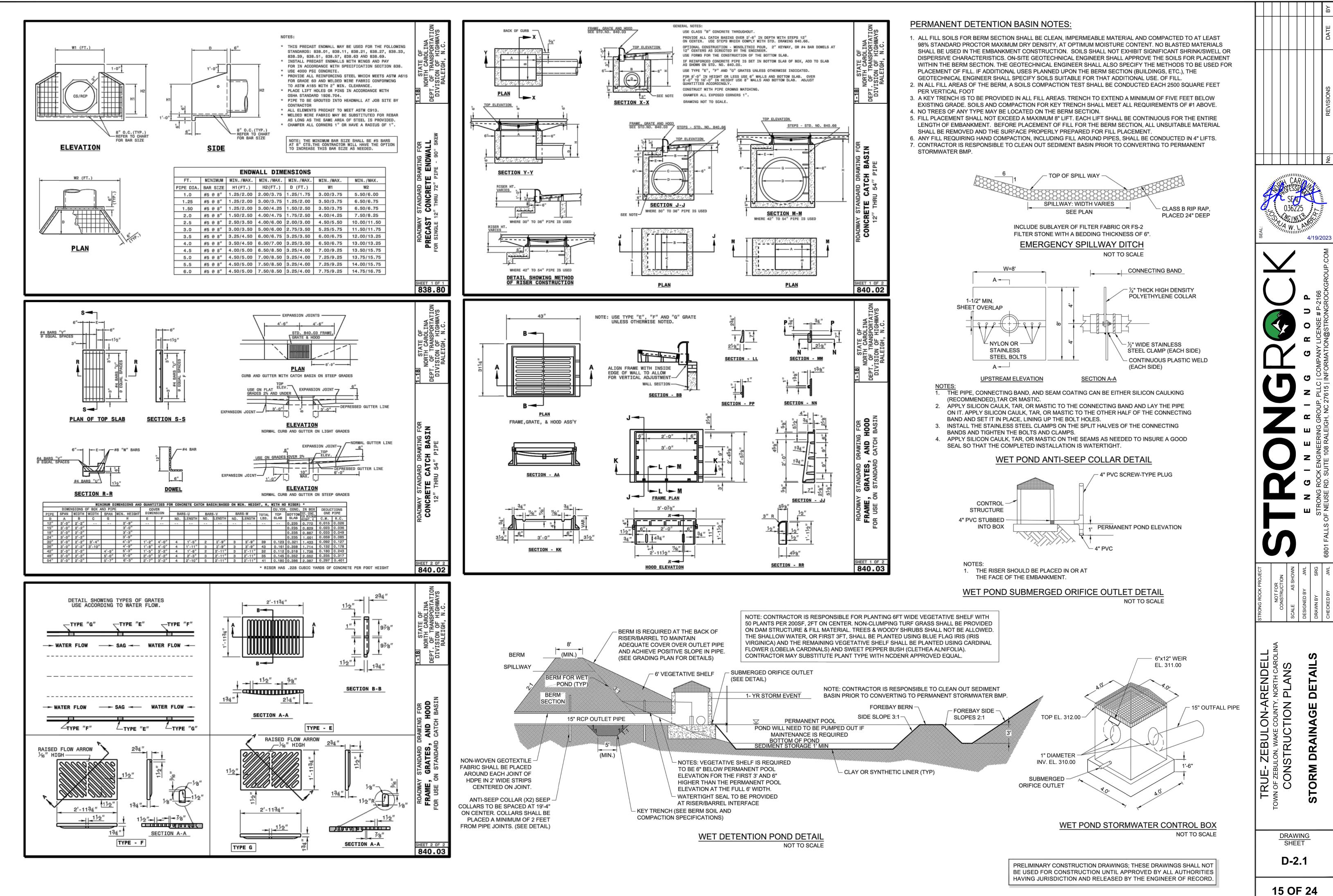
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			ENGINEERING GROUP	STRONG ROCK ENGINEERING GROUP, PLLC COMPANY LICENSE # P-2166	6801 FALLS OF NEUSE RD. SUITE 108 RALEIGH, NC 27615 INFORMATION@STRONGROCKGROUP.COM			
STRONG ROCK PROJECT	NOT FOR CONSTRUCTION	SCALE AS SHOWN	DESIGNED BY JWL	DRAWN BY SRG	СНЕСКЕД ВУ ЈУЛ			
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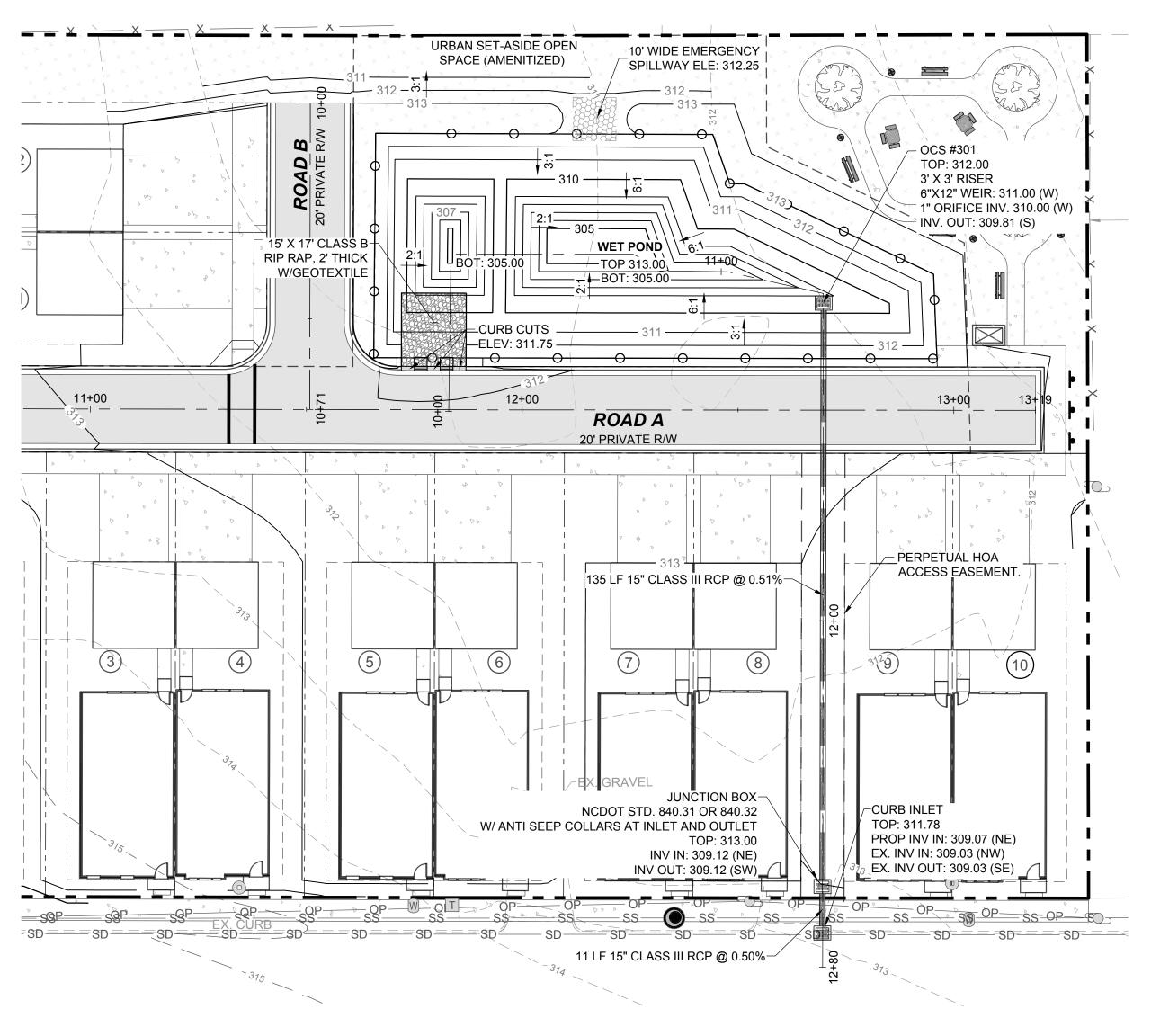


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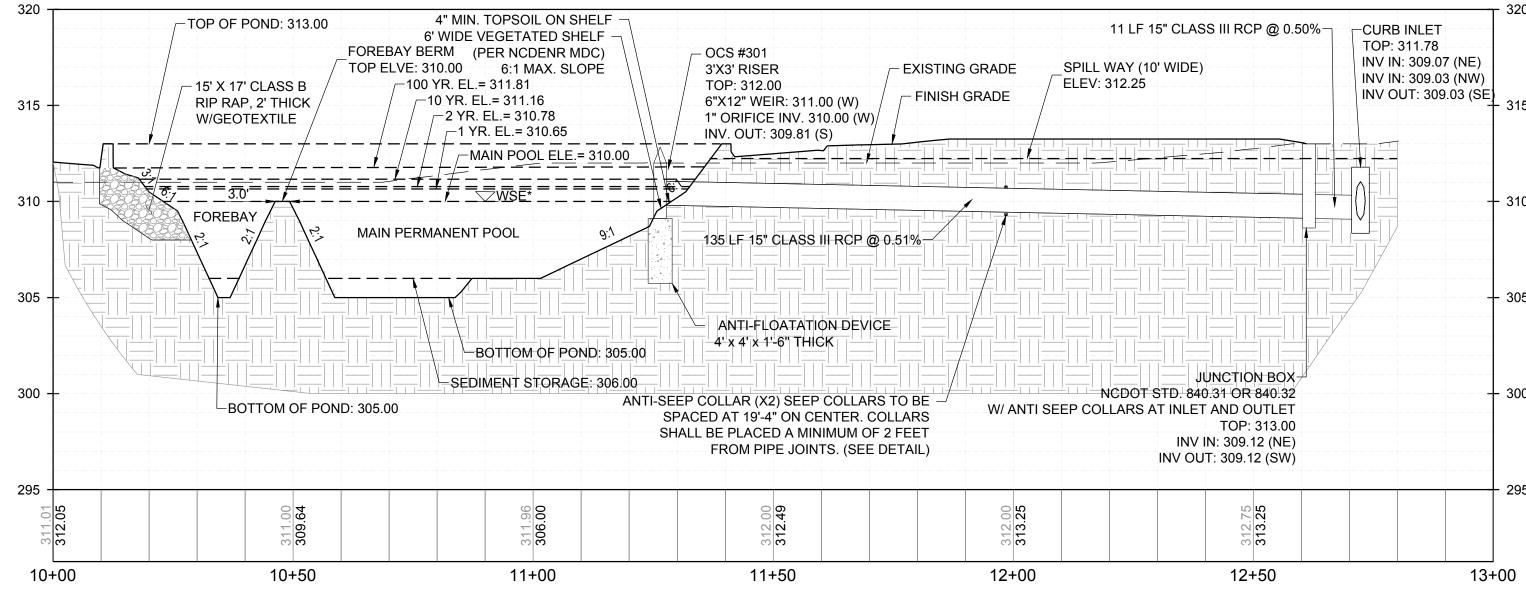




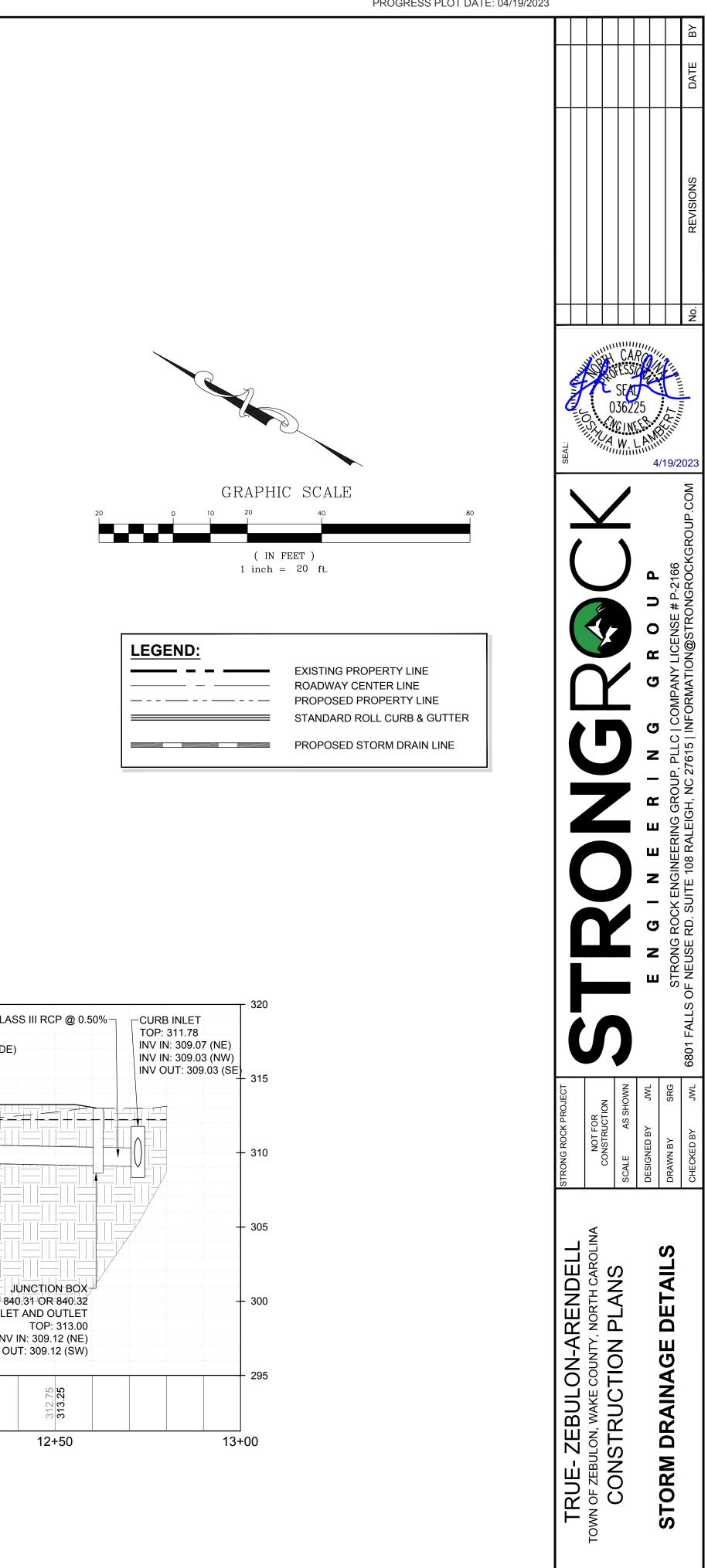




WET POND - PLAN HORIZONTAL: 1" = 20'



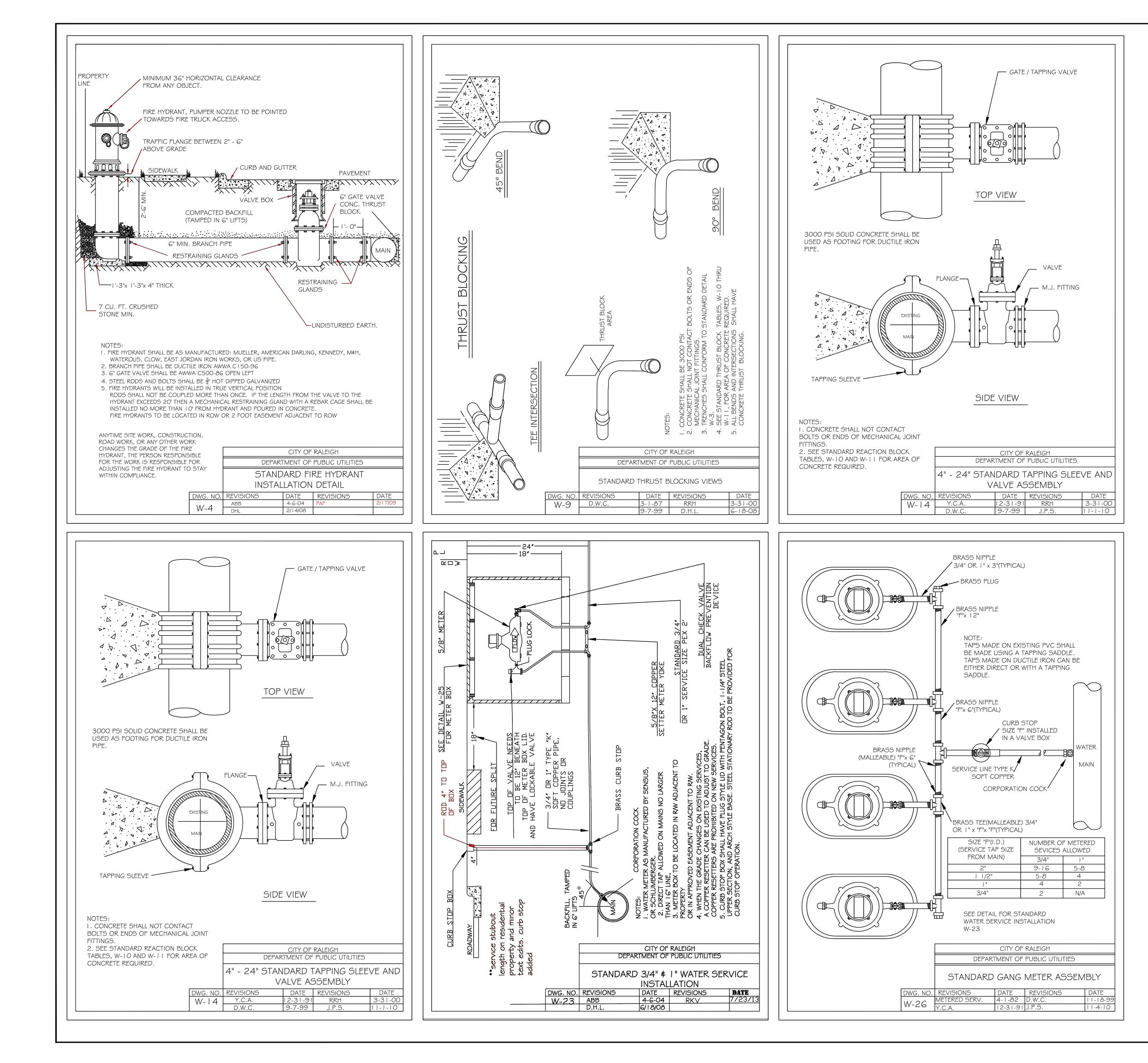
WET POND - PROFILE VERTICAL: 1" = 5'



DRAWING SHEET

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16 OF 24





SITE PERMITTING APPROVAL:

WATER AND SEWER PERMITS (IF APPLICABLE)

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT 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 PUBLIC UTILITIES DEPARTMENT PERMIT # <u>S-3936</u>

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT 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 PUBLIC . UTILITIES DEPARTMENT PERMIT # N/A

<u>CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT - PLANS AUTHORIZED FOR</u> <u>CONSTRUCTION</u>

ELECTRONIC APPROVAL: THIS APPROVAL IS BEING ISSUED ELECTRONICALLY. THIS APPROVAL IS VALID ONLY UPON THE SIGNATURE OF A TOWN OF ZEBUL REVIEW OFFICER BELOW. THE CITY WILL RETAIN A COPY OF THE APPROVED PLANS. ANY WORK AUTHORIZED BY THIS APPROVAL MUST PROCEED IN ACCORDANCE WITH THE PLANS KEPT ON FILE WITH THE CITY. THIS ELECTRONIC APPROVAL MAY NOT BE EDITED ONCE ISSUED. ANY MODIFICATION TO THIS APPROVAL ONCE ISSUED WILL INVALIDATE THIS APPROVAL.

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT DEVELOPMENT APPROVAL

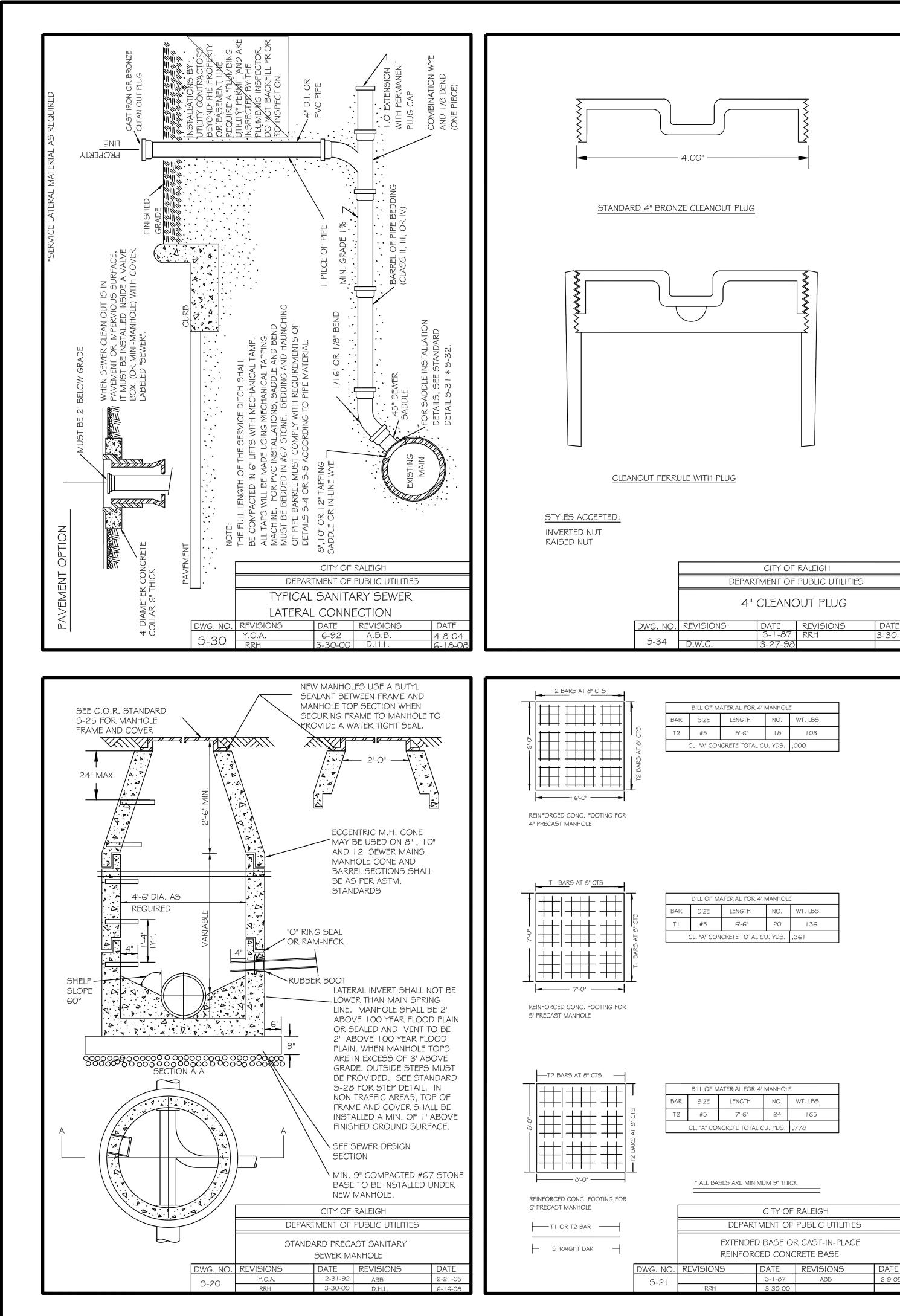
CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT WATER REVIEW OFFICER

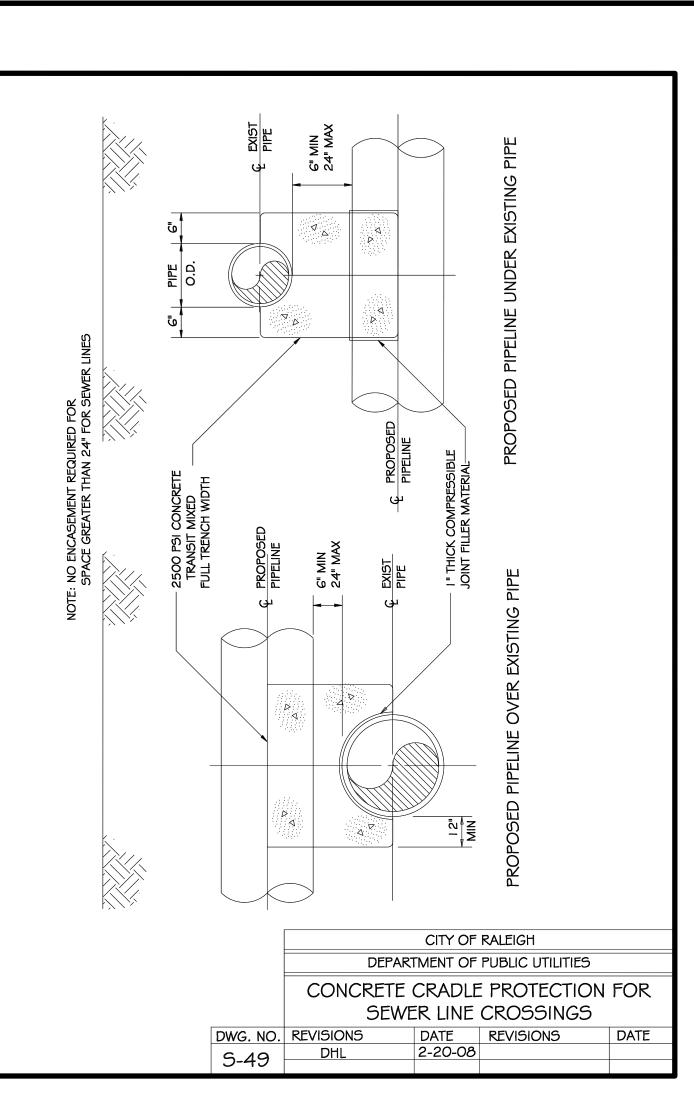
CITY OF ZEBULON - PLANS AUTHORIZED FOR CONSTRUCTION:

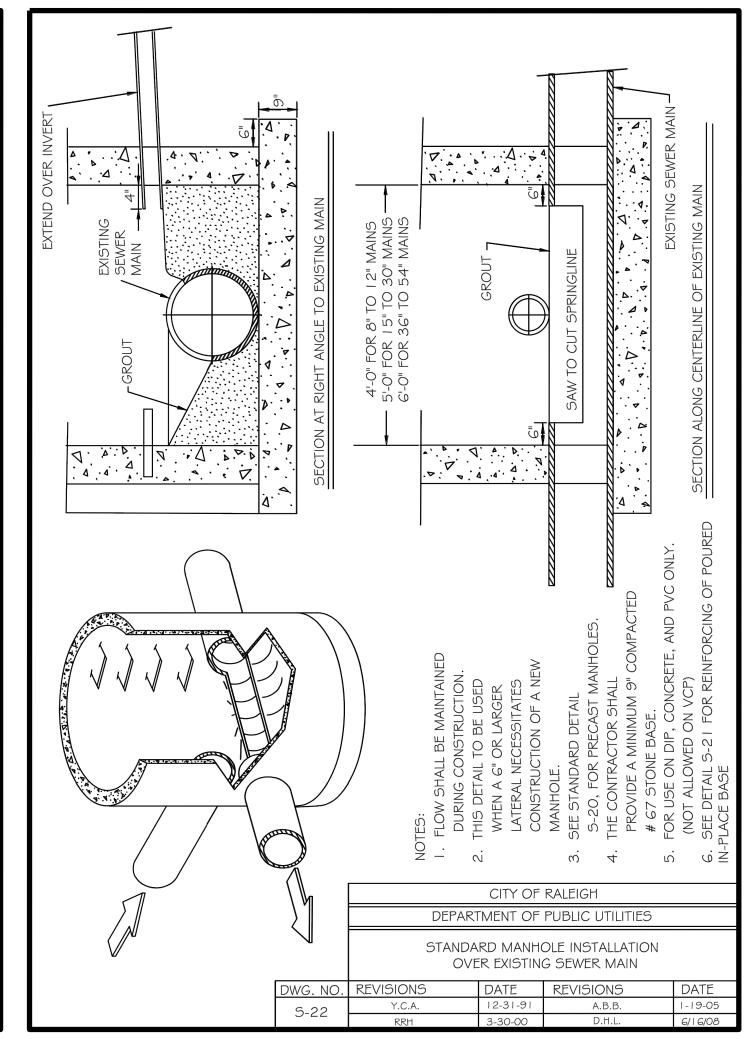
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CITY OF ZEBULON DEVELOPMENT APPROVAL

ZEBULON WATER REVIEW OFFICER





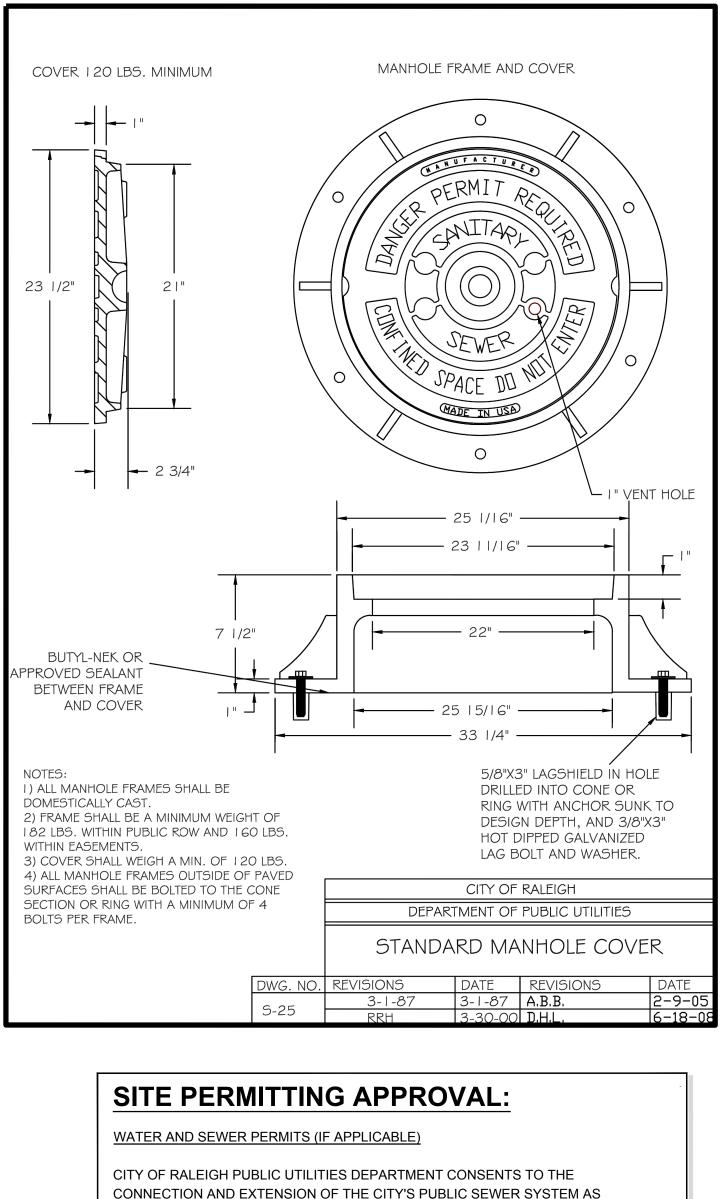


BAR SIZE LENGTH NO. WT. LBS.							
Т2	#5	5'-6"	18	103			
CL. "A" CONCRETE TOTAL CU. YDS. ,000							

BILL OF MATERIAL FOR 4' MANHOLE							
BAR	SIZE	WT. LBS.					
ΤI	#5	20	136				
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	BILL OF MATERIAL FOR 4' MANHOLE							
BAR	SIZE	LENGTH	NO.	WT. LBS.				
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	CL. "A" CO	,778						

	CITY OF RALEIGH			
	DEPARTMENT OF PUBLIC UTILITIES			
	EXTENDED BASE OR CAST-IN-PLACE REINFORCED CONCRETE BASE			
WG. NO.	REVISIONS	DATE	REVISIONS	DATE
5-21		3-1-87	ABB	2-9-05
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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 PUBLIC UTILITIES DEPARTMENT PERMIT # <u>S-3936</u> CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS

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CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT DEVELOPMENT APPROVAL

CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT WATER REVIEW OFFICER

CITY OF ZEBULON - PLANS AUTHORIZED FOR CONSTRUCTION:

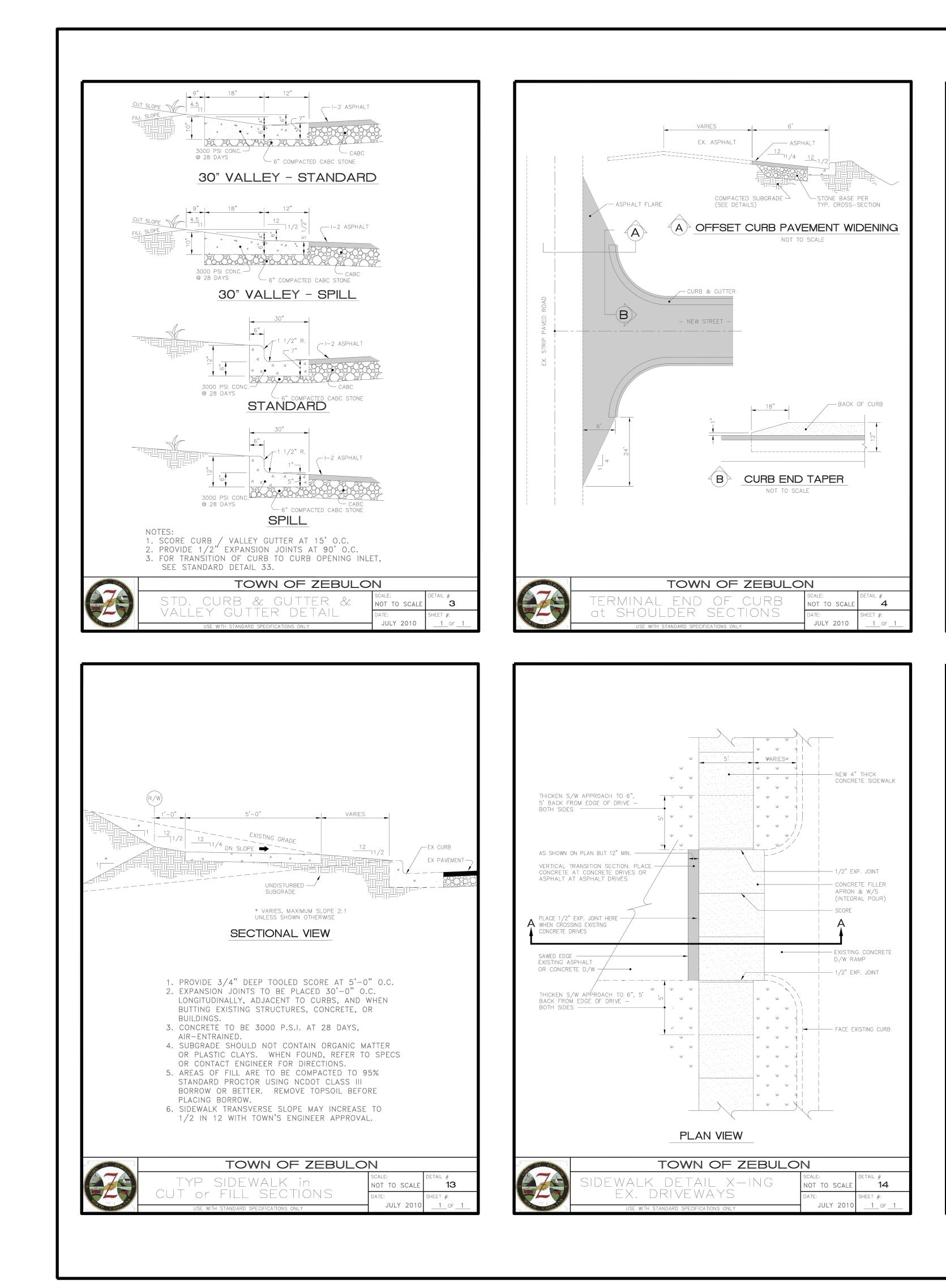
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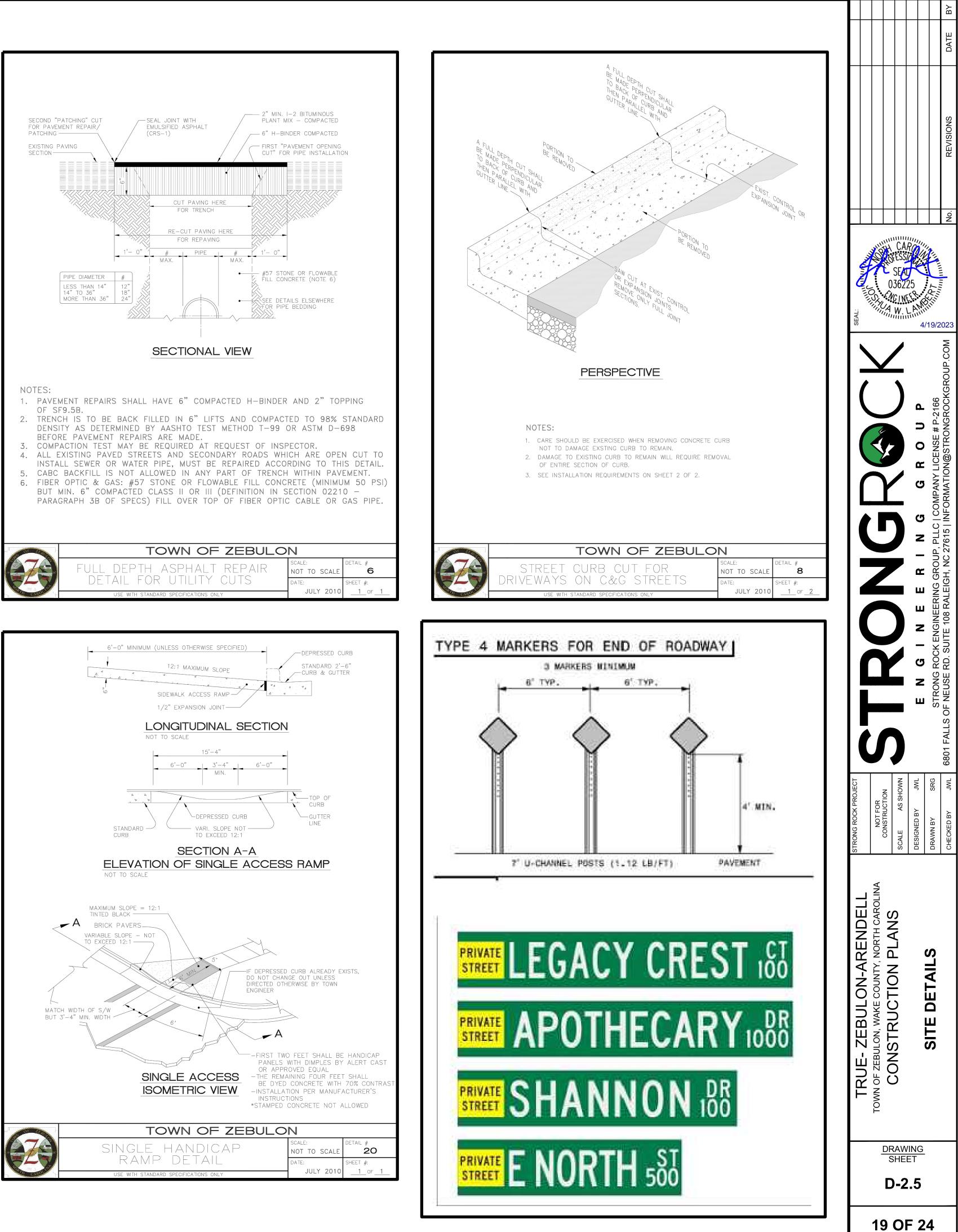
CITY OF ZEBULON DEVELOPMENT APPROVAL

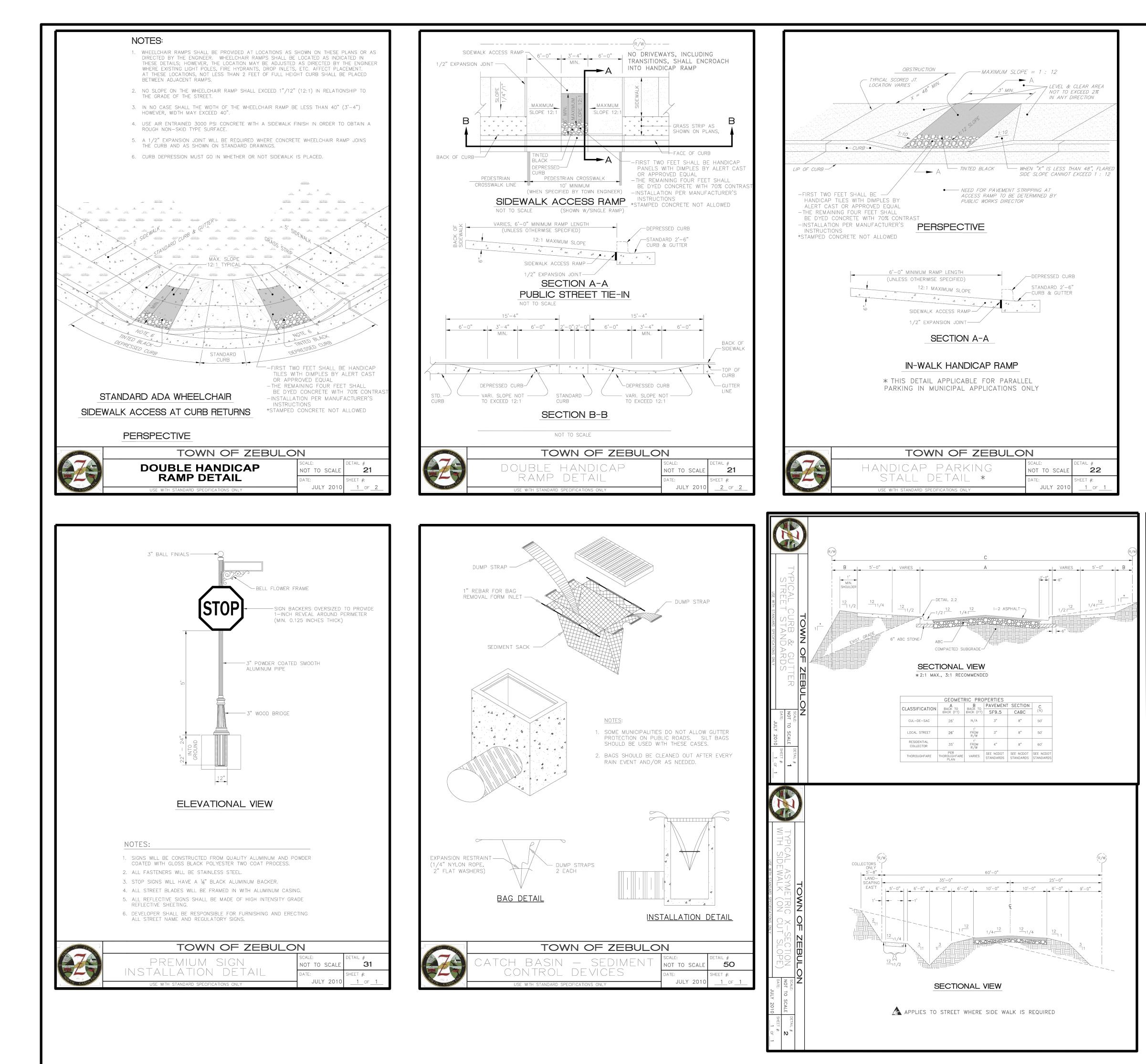
ZEBULON WATER REVIEW OFFICER

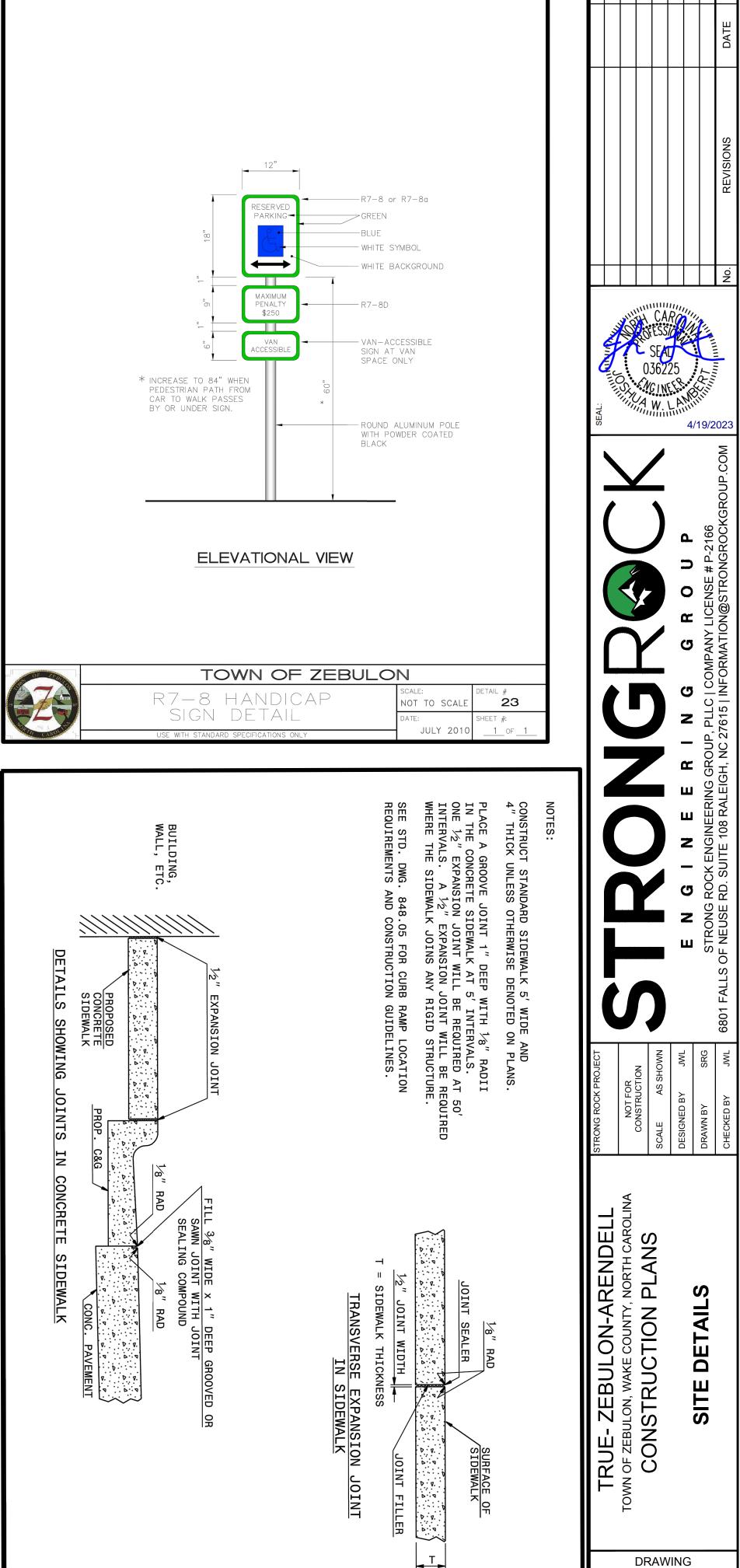


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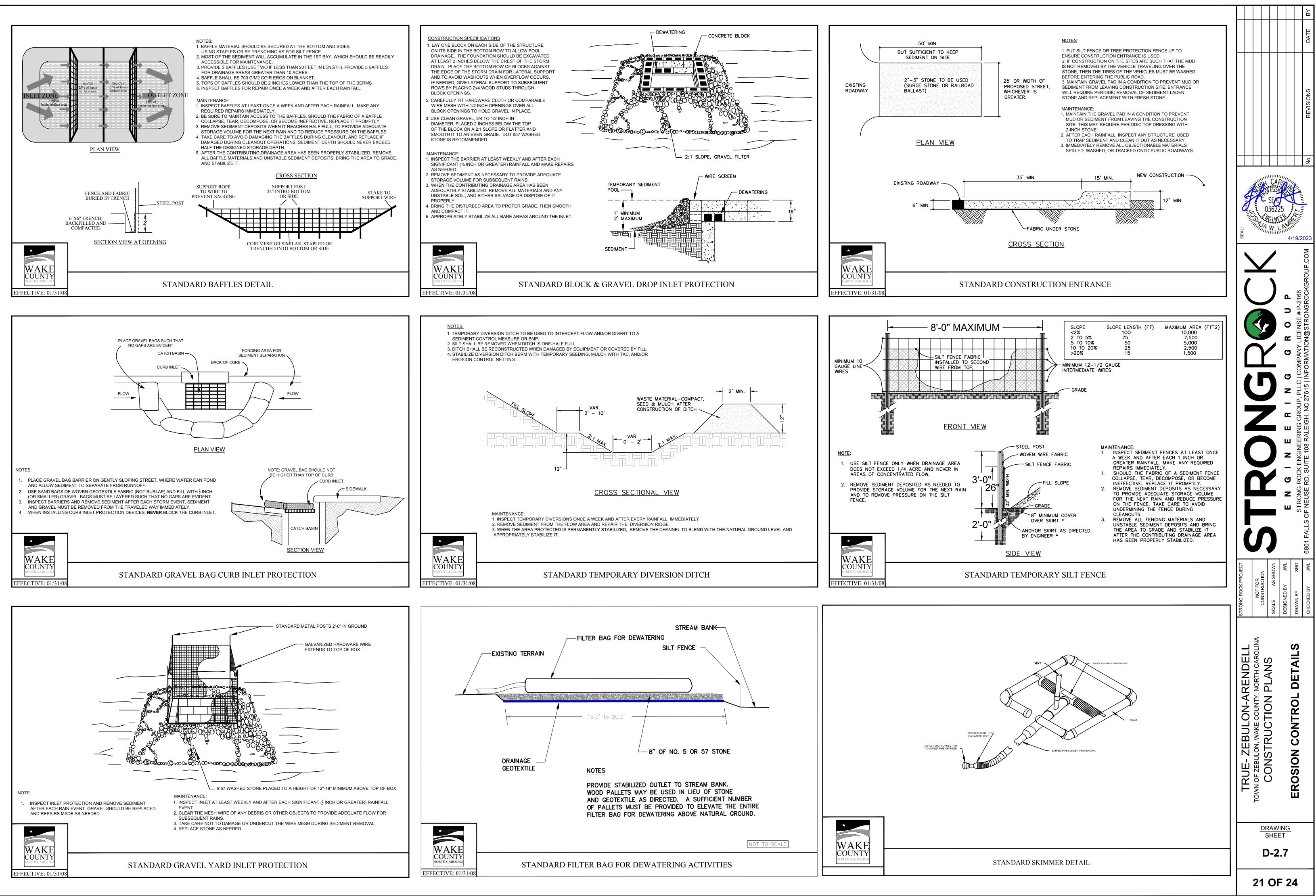


ROADWAY STANDARD DRAWING FOR CONCRETE SIDEWALK

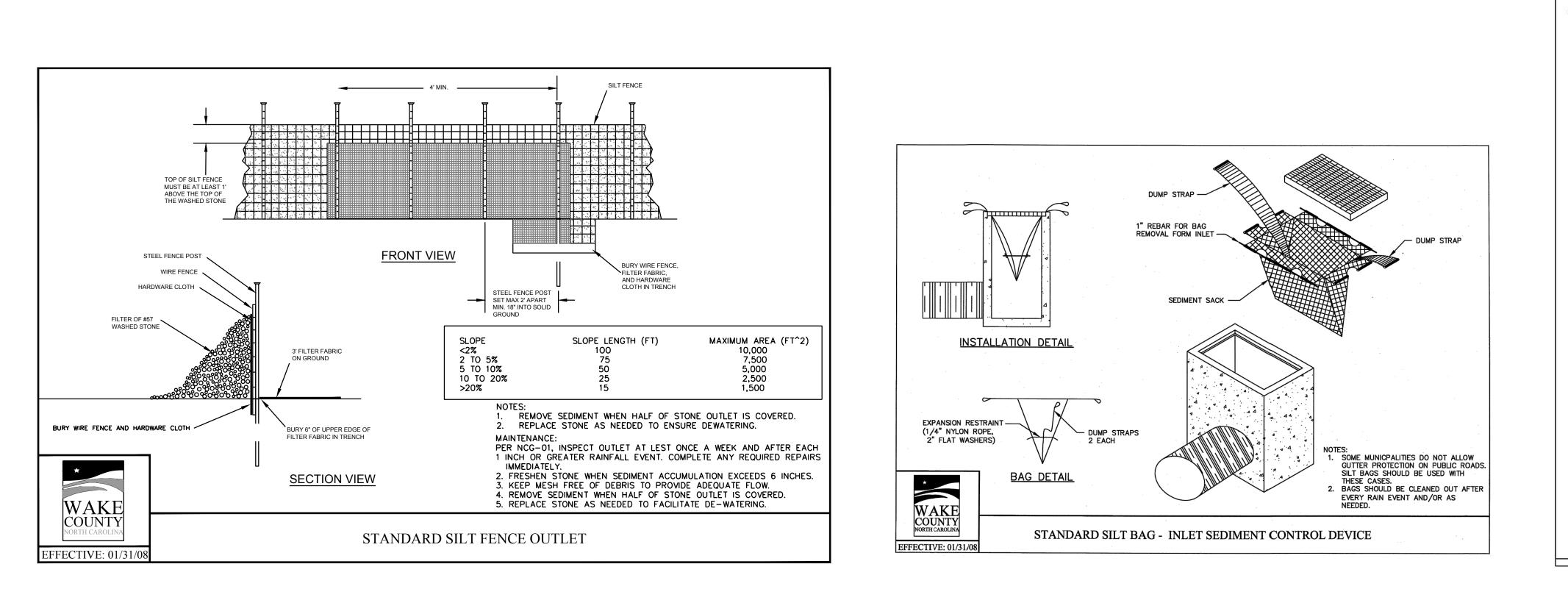
1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. SHEET

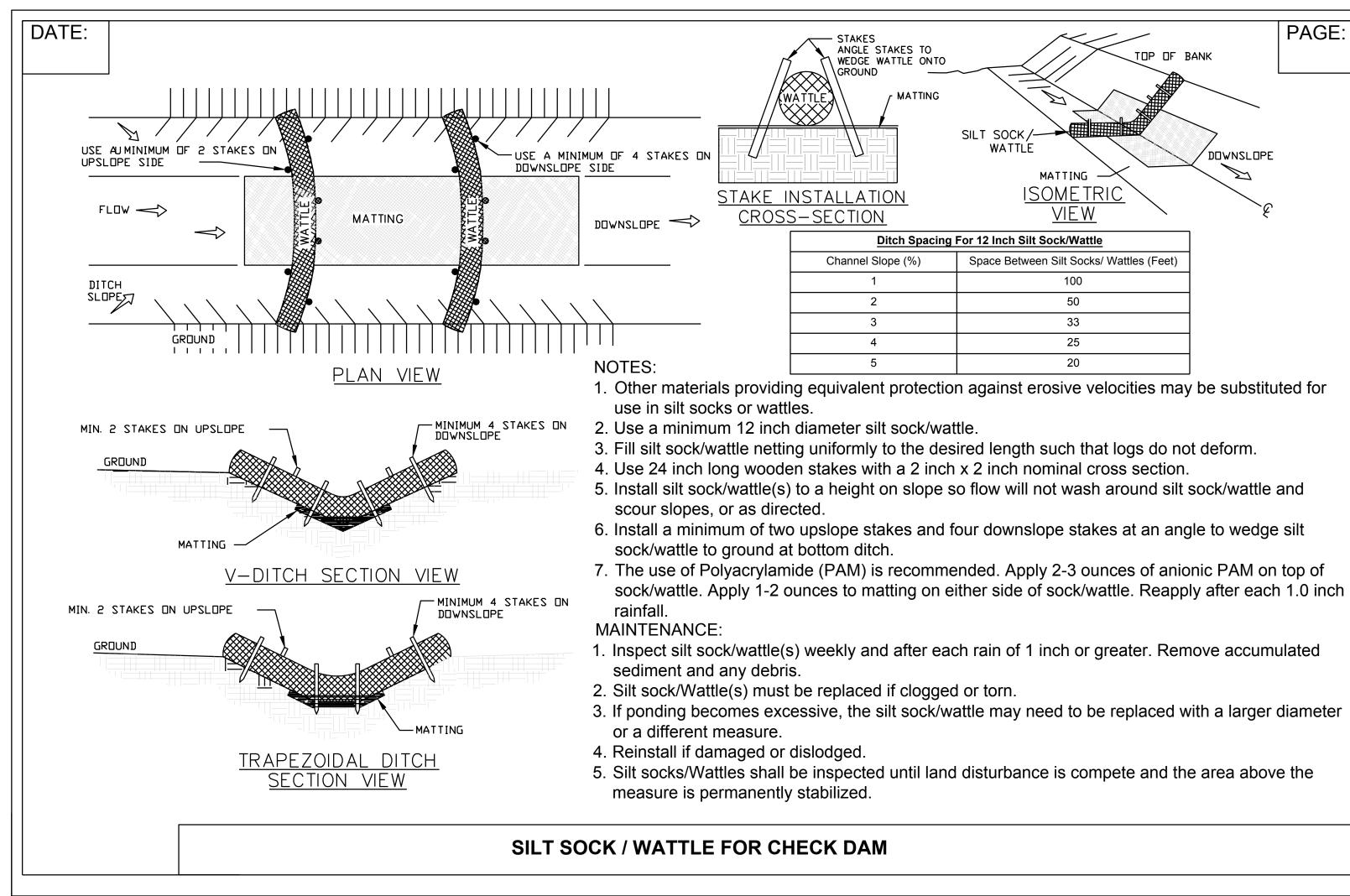
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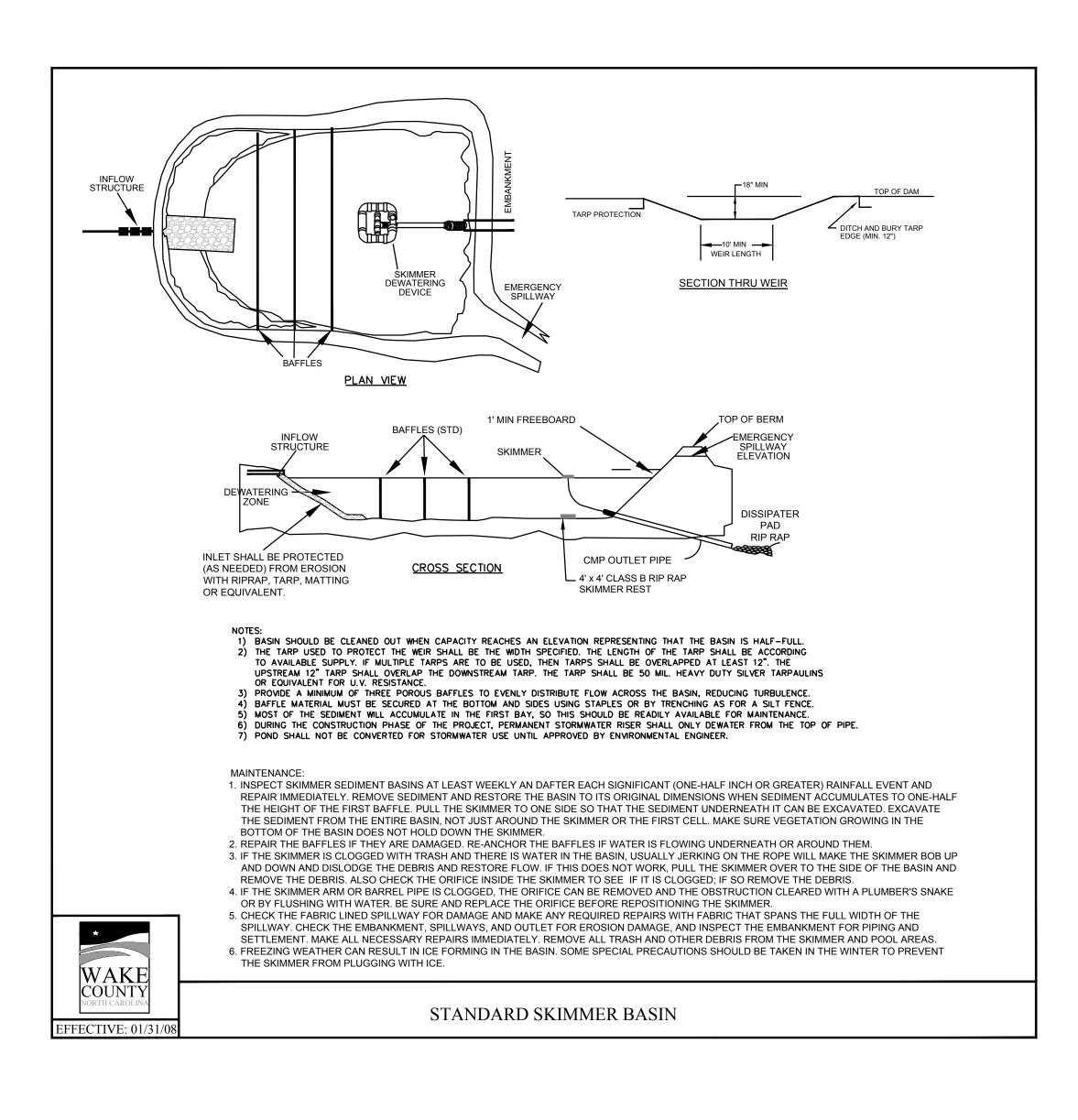
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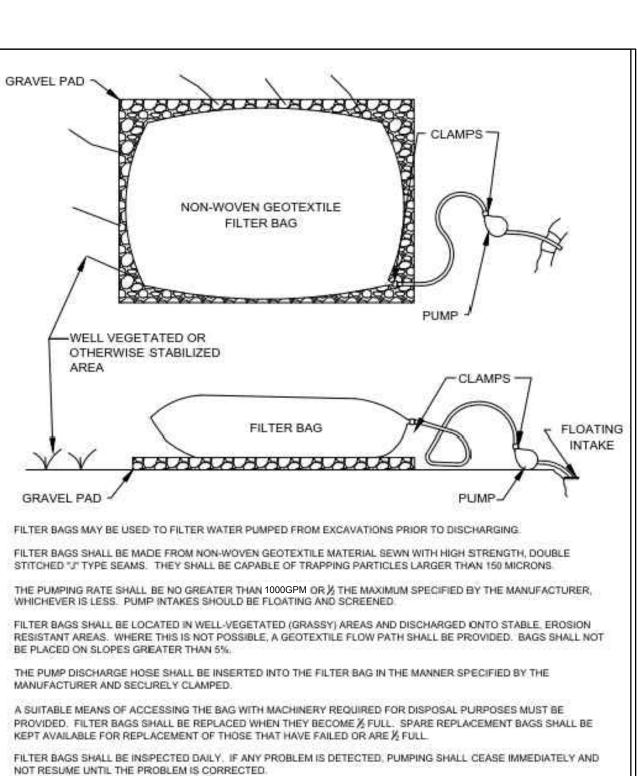


PROGRESS PLOT DATE: 04/19/2023

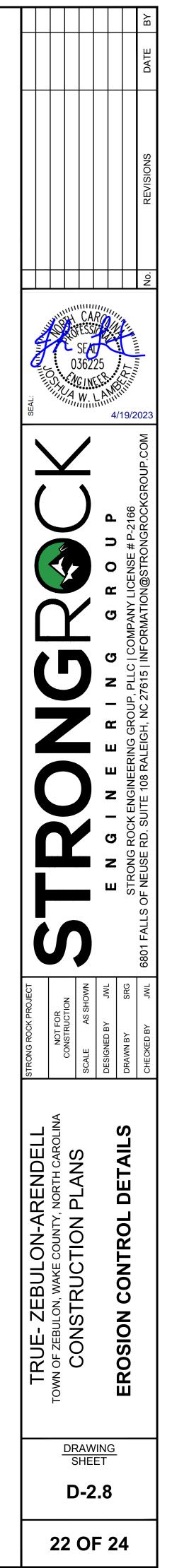


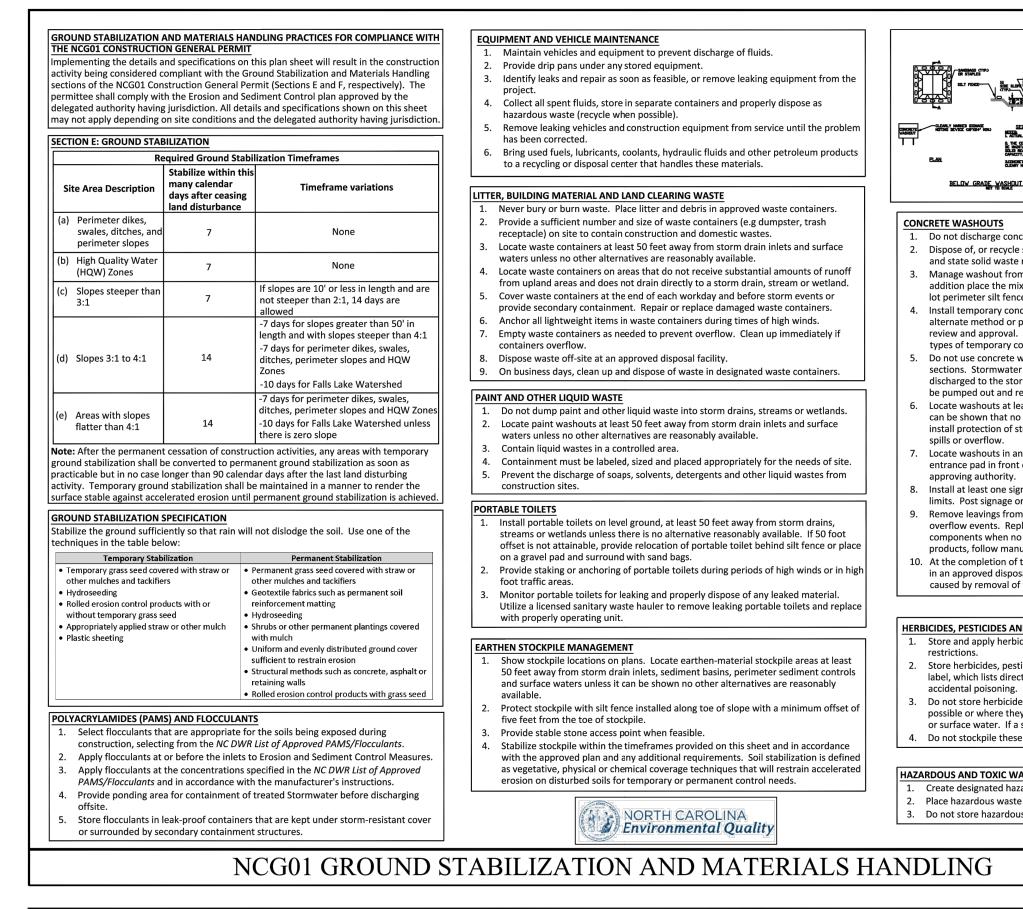


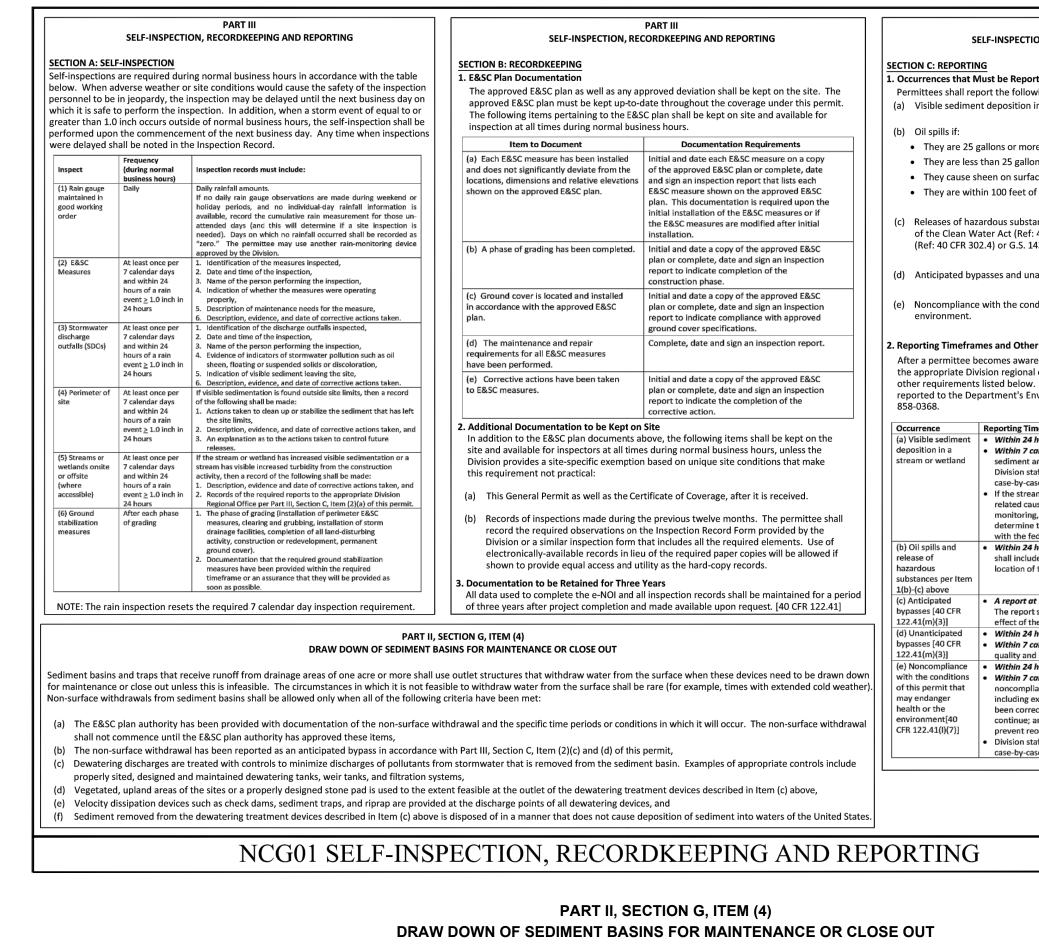




FILTER BAG NO SCALE







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,
- 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, (B) DEWATERING DISCHARGES ARE TREATED WITH CONTROLS TO MINIMIZE DISCHARGES OF POLLUTANTS FROM STORMWATER THAT IS REMOVED FROM THE SEDIMENT (C)
- 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,
- VELOCITY DISSIPATION DEVICES SUCH AS CHECK DAMS, SEDIMENT TRAPS, AND RIPRAP ARE PROVIDED AT THE DISCHARGE POINTS OF ALL DEWATERING DEVICES. AND (E) SEDIMENT REMOVED FROM THE DEWATERING TREATMENT DEVICES DESCRIBED IN ITEM (C) ABOVE IS DISPOSED OF IN A MANNER THAT DOES NOT CAUSE DEPOSITION (F) OF SEDIMENT INTO WATERS OF THE UNITED STATES.

NET, MANGUT STIRLING MEAN THE PLAN IN STORY OF PARTICULAR AND		
crete or cement slurry from the site. e settled, hardened concrete residue in accordance with local e regulations and at an approved facility. m mortar mixers in accordance with the above item and in ixer and associated materials on impervious barrier and within		
ce. Increte washouts per local requirements, where applicable. If an product is to be used, contact your approval authority for If local standard details are not available, use one of the two oncrete washouts provided on this detail. washouts for dewatering or storing defective curb or sidewalk r accumulated within the washout may not be pumped into or rm drain system or receiving surface waters. Liquid waste must removed from project. east 50 feet from storm drain inlets and surface waters unless it to other alternatives are reasonably available. At a minimum, storm drain inlet(s) closest to the washout which could receive		
n easily accessible area, on level ground and install a stone t of the washout. Additional controls may be required by the		
gn directing concrete trucks to the washout within the project on the washout itself to identify this location. In the washout when at approximately 75% capacity to limit place the tarp, sand bags or other temporary structural o longer functional. When utilizing alternative or proprietary sufacturer's instructions. the concrete work, remove remaining leavings and dispose of sal facility. Fill pit, if applicable, and stabilize any disturbance f washout.		
ND RODENTICIDES icides, pesticides and rodenticides in accordance with label		
ticides and rodenticides in their original containers with the ctions for use, ingredients and first aid steps in case of		
es, pesticides and rodenticides in areas where flooding is and spill or leak into wells, stormwater drains, ground water spill occurs, clean area immediately. e materials onsite.		
ASTE zardous waste collection areas on-site. e containers under cover or in secondary containment. us chemicals, drums or bagged materials directly on the ground.		
EFFECTIVE: 04/01/19		
PART III CTION, RECORDKEEPING AND REPORTING		
ported llowing occurrences: on in a stream or wetland.		
nore, allons but cannot be cleaned up within 24 hours, ırface waters (regardless of volume), or ıt of surface waters (regardless of volume).		
ostances in excess of reportable quantities under Section 311 lef: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA 5. 143-215.85.		
unanticipated bypasses.		
conditions of this permit that may endanger health or the ther Requirements		
vare of an occurrence that must be reported, he shall contact inal office within the timeframes and in accordance with the ow. Occurrences outside normal business hours may also be s Environmental Emergency Center personnel at (800)		
Timeframes (After Discovery) and Other Requirements 24 hours, an oral or electronic notification. 7 calendar days, a report that contains a description of the nt and actions taken to address the cause of the deposition. In staff may waive the requirement for a written report on a -case basis.		
tream is named on the <u>NC 303(d) list</u> as impaired for sediment- causes, the permittee may be required to perform additional ring, inspections or apply more stringent practices if staff ine that additional requirements are needed to assure compliance e federal or state impaired-waters conditions. 24 hours , an oral or electronic notification. The notification clude information about the date, time, nature, volume and n of the spill or release.		
rt at least ten days before the date of the bypass, if possible. ort shall include an evaluation of the anticipated quality and of the bypass. 24 hours, an oral or electronic notification.		
 27 calendar, and of electronic inclinication. 27 calendar days, a report that includes an evaluation of the and effect of the bypass. 24 hours, an oral or electronic notification. 7 calendar days, a report that contains a description of the ppliance, and its causes; the period of noncompliance, and exect dates and times, and if the noncompliance has not porrected, the anticipated time noncompliance is expected to be; and steps taken or planned to reduce, eliminate, and t reoccurrence of the noncompliance. [40 CFR 122.41(I){6}. In staff may waive the requirement for a written report on a <i>i</i>-case basis. 		
NORTH CAROLINA Environmental Quality		
EFFECTIVE: 04/01/19		

SEEDING SPECIFICATIONS:

SEEDBED PREPARATION:

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSESOIL CONDITIONS, IF AVAILABLE. RIP THE ENTIRE AREA TO SIX INCHES DEEP.
- REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE MIXTURE BELOW).
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, REESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- CONSULT WAKE COUNTY SOIL & WATER OR NC STATE COOPERATIVE EXTENSION ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

MIXTURE:

MAR 1-APR 15

MAR 1-JUN 30

MAR 1-JUN 30

JUL 1-SEPT 1

SEPT 1-MAR 1

NOV 1-MAR 1

AGRICULTURAL LIMESTONE		STONE	2 TONS/ACRE (3 TONS/ACRE IN CLAY SOILS)	
	FERTILIZER		1,000 LBS/ACRE - 10-10-10	
	SUPERPHOSPHATE		500 LBS/ACRE - 20% ANALYSIS	
	MULCH		2 TONS/ACRE - SMALL GRAIN STRAW	
	ANCHOR A		ASPHALT EMULSION AT 400 GALS/ACRE	
SEE	EDING SCHEDULE:			
FOR SHOULDERS, SIDE DITCHES. SLOPES (MAX 3:1):				
DA	ATE	TYPE	PLANTING RATE	
AUG	G 15-NOV 1	TALL FESCUE	300 LBS/ACRE	

AUG 15-NOV 1	TALL FESCUE	300 LBS/ACRE	
NOV 1-MAR 1	TALL FESCUE & ABRUZZI RYE	300 LBS/ACRE	
MAR 1-APR 15	TALL FESCUE	300 LBS/ACRE	
APR 15-JUN 30	HULLED COMMON BERMUDAGRASS	25 LBS/ACRE	
JUL 1-AUG 15	TALL FESCUE AND BROWNTOP MILLET OR SORGHUM-SUDAN HYBRIDS***	125 LBS/ACRE (TALL FESCUE); 35 LBS/ACRE (BROWNTOP MILLET); 30 LBS/ACRE (SORGHUM-SUDAN HYBRIDS)	
FOR SHOULDERS, SIDE DITCHES. SLOPES (MAX 3:1 TO 2:1):			
DATE	TYPE	PLANTING RATE	
MAR 1-JUN 1	SERICEA LESPEDEZA (SCARIFIED) AND USE THE FOLLOWING	50 LBS/ACRE (SERICEA LESPEDEZA);	

COMBINATIONS:	
ADD TALL FESCUE	120 LBS/ACRE
OR ADD WEEPING LOVE GRASS	10 LBS/ACRE
OR ADD HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
TALL FESCUE AND BROWNTOP MULLET OR SORGHUM-SUDAN HYBRIDS***	120 LBS/ACRE (TALL FESCUE); 35 LBS/ACRE (BROWNTOP MULLET); 30 LBS/ACRE (SORGHUM-SUDAN HYBRIDS)
SERICEA LESPEDEZA (UNHULLED -UNSCARIFIED) AND TALL FESCUE	70 LBS/ACRE (SERICEA LESPEDEZA); 120 LBS/ACRE (TALL FESCUE)

CONSULT WAKE COUNTY SOIL & WATER CONSERVATION DISTRICT OR NC STATE COOPERATIVE EXTENSION 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.

25 IBS/ACRE

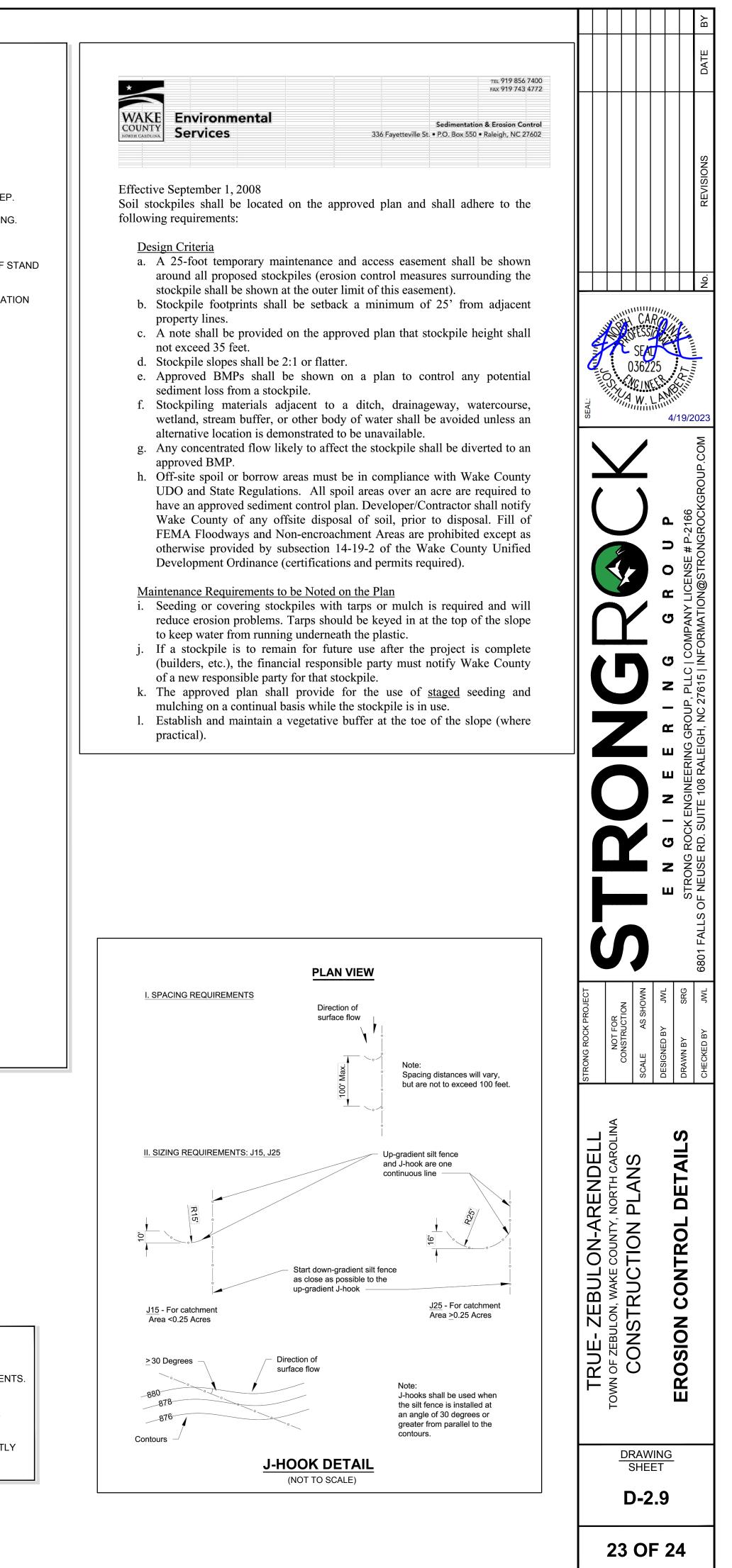
** TEMPORAR

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

AND ABRUZZI RYE

J-HOOK MAINTENANCE:

- INSPECT J-HOOK INSTALLATION AT REGULAR INTERVALS PER NPDES MONITORING REQUIREMENTS.
- REPLACE TORN SILT FENCE FABRIC WITH NEW FENCE MATERIAL
- BENT OR BROKEN WIRES AND T-POLES SHALL BE REPLACED IMMEDIATELY.
- SEDIMENT ACCUMULATION HIGHER THAN 1/3 OF INSTALLED HEIGHT OF FABRIC SHALL BE PROMPTLY REMOVED.



Outdoor Lighting

Mitchell LED Series

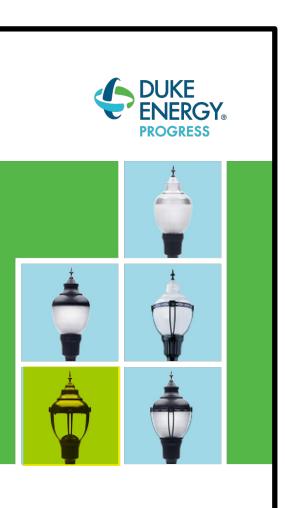
Mitchell LED Mitchell Top Hat LED Mitchell LED with ribs, bands and medallions Mitchell Open LED Mitchell Top Hat LED with ribs, bands and medallions

The energy-efficient fixtures in the Mitchell LED Series enhance the character and prestige of streetscapes and parking lots, as well as pedestrian areas and greenways. These fixtures provide safety and security in commercial settings and complement any neighborhood with their classic, elegant design.

LED (Light Emitting Diode)	<mark>50 watts,</mark>
Mounting heights	12', 13', <mark>1</mark>
Color	Black
Poles	Fiberglass Smooth ro Style V Style VI Style VI

For additional information, visit us at duke-energy.com/OutdoorLighting or call us toll free at 866.769.6417.

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s<mark>,</mark> 75 watts (*Mitchell Open*)

<mark>16'</mark>

ss round concrete

Outdoor Lighting Mitchell LED Series

Light source: LED (white)

Lumens: 4,332 – 5,678 (fixture dependent)

Color temperature: 4,000K

	Wattage	Light Patte
Mitchell LED	50	IESNA Type
Mitchell Top Hat LED	50	IESNA Type
Mitchell Open LED	75	IESNA Type
Mitchell LED with Ribs, Bands and Medallions	50	IESNA Type
Mitchell Top Hat LED with Ribs, Bands and Medallions	50	IESNA Type
		·

Poles available:	Mounting height	Color
Smooth concrete	12', 16'	Black
Fiberglass	16'	Black
Style V	12', 16'	Black
Style VI	12'	Black
Style VII	13'	Black

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PROGRESS PLO	T DATE: 04/19/2023
I NOONLOOT LO	1 DATE. 04/10/2020

